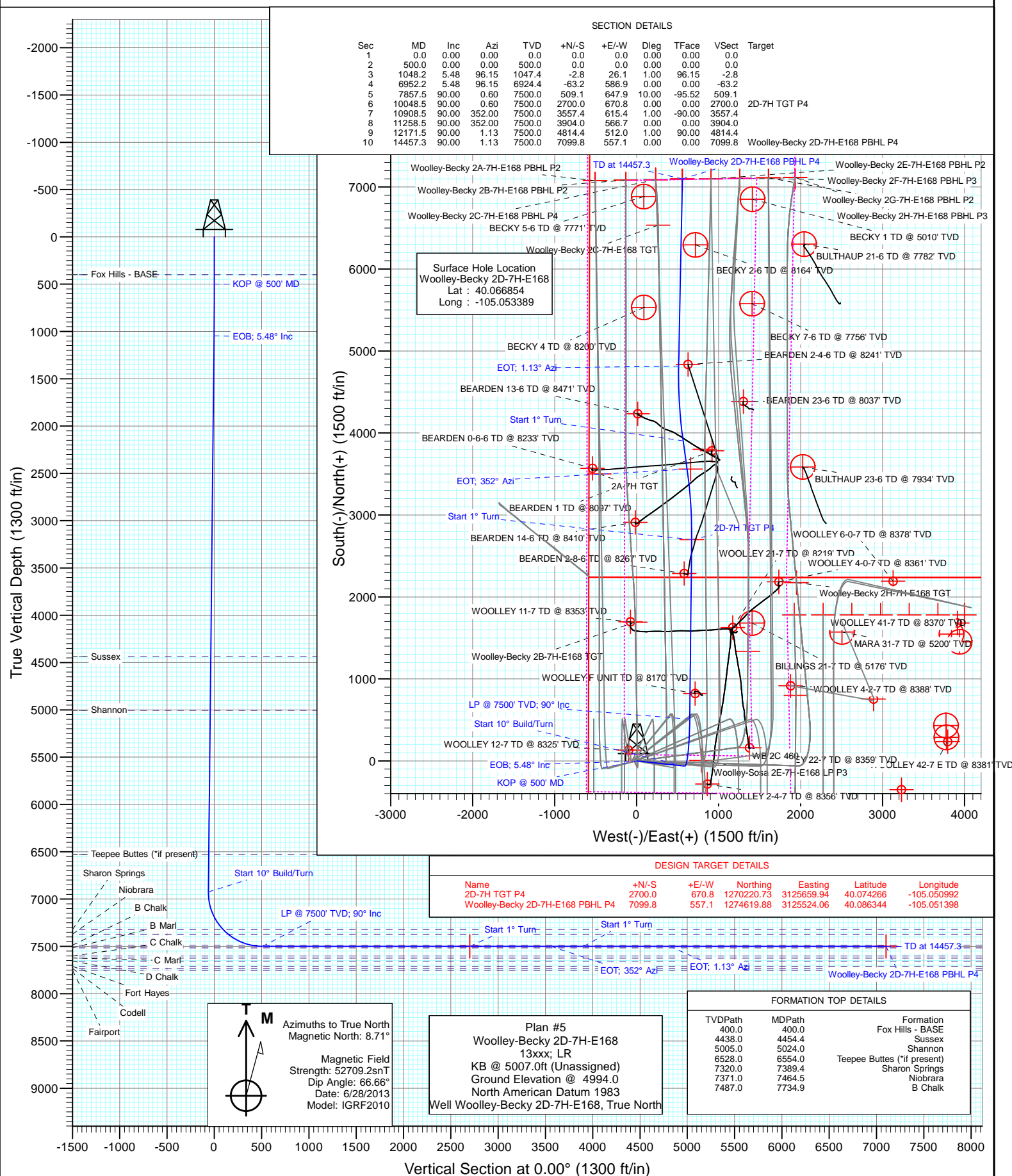




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2D-7H-E168
Wellbore: Hz
Design: Plan #5



Cathedral Energy Services

Planning Report

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

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

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

Well	Woolley-Becky 2D-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.36 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,125,002.74 ft	Longitude:	-105.053389
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,994.0 ft

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

Design	Plan #5			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,048.2	5.48	96.15	1,047.4	-2.8	26.1	1.00	1.00	0.00	96.15	
6,952.2	5.48	96.15	6,924.4	-63.2	586.9	0.00	0.00	0.00	0.00	
7,857.5	90.00	0.60	7,500.0	509.1	647.9	10.00	9.34	-10.55	-95.52	
10,048.5	90.00	0.60	7,500.0	2,700.0	670.8	0.00	0.00	0.00	0.00	2D-7H TGT P4
10,908.5	90.00	352.00	7,500.0	3,557.4	615.4	1.00	0.00	-1.00	-90.00	
11,258.5	90.00	352.00	7,500.0	3,904.0	566.7	0.00	0.00	0.00	0.00	
12,171.5	90.00	1.13	7,500.0	4,814.4	512.0	1.00	0.00	1.00	90.00	
14,457.3	90.00	1.13	7,500.0	7,099.8	557.1	0.00	0.00	0.00	0.00	Woolley-Becky 2D-7H

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500' MD
600.0	1.00	96.15	600.0	-0.1	0.9	-0.1	1.00	1.00	
700.0	2.00	96.15	700.0	-0.4	3.5	-0.4	1.00	1.00	
800.0	3.00	96.15	799.9	-0.8	7.8	-0.8	1.00	1.00	
900.0	4.00	96.15	899.7	-1.5	13.9	-1.5	1.00	1.00	
1,000.0	5.00	96.15	999.4	-2.3	21.7	-2.3	1.00	1.00	
1,048.2	5.48	96.15	1,047.4	-2.8	26.1	-2.8	1.00	1.00	EOB; 5.48° Inc
1,100.0	5.48	96.15	1,098.9	-3.3	31.0	-3.3	0.00	0.00	
1,200.0	5.48	96.15	1,198.5	-4.4	40.5	-4.4	0.00	0.00	
1,300.0	5.48	96.15	1,298.0	-5.4	50.0	-5.4	0.00	0.00	
1,400.0	5.48	96.15	1,397.6	-6.4	59.5	-6.4	0.00	0.00	
1,500.0	5.48	96.15	1,497.1	-7.4	69.0	-7.4	0.00	0.00	
1,600.0	5.48	96.15	1,596.6	-8.4	78.5	-8.4	0.00	0.00	
1,700.0	5.48	96.15	1,696.2	-9.5	88.0	-9.5	0.00	0.00	
1,800.0	5.48	96.15	1,795.7	-10.5	97.5	-10.5	0.00	0.00	
1,900.0	5.48	96.15	1,895.3	-11.5	107.0	-11.5	0.00	0.00	
2,000.0	5.48	96.15	1,994.8	-12.5	116.5	-12.5	0.00	0.00	
2,100.0	5.48	96.15	2,094.4	-13.6	126.0	-13.6	0.00	0.00	
2,200.0	5.48	96.15	2,193.9	-14.6	135.5	-14.6	0.00	0.00	
2,300.0	5.48	96.15	2,293.4	-15.6	145.0	-15.6	0.00	0.00	
2,400.0	5.48	96.15	2,393.0	-16.6	154.5	-16.6	0.00	0.00	
2,500.0	5.48	96.15	2,492.5	-17.7	164.0	-17.7	0.00	0.00	
2,600.0	5.48	96.15	2,592.1	-18.7	173.5	-18.7	0.00	0.00	
2,700.0	5.48	96.15	2,691.6	-19.7	183.0	-19.7	0.00	0.00	
2,800.0	5.48	96.15	2,791.2	-20.7	192.5	-20.7	0.00	0.00	
2,900.0	5.48	96.15	2,890.7	-21.7	202.0	-21.7	0.00	0.00	
3,000.0	5.48	96.15	2,990.2	-22.8	211.5	-22.8	0.00	0.00	
3,100.0	5.48	96.15	3,089.8	-23.8	221.0	-23.8	0.00	0.00	
3,200.0	5.48	96.15	3,189.3	-24.8	230.5	-24.8	0.00	0.00	
3,300.0	5.48	96.15	3,288.9	-25.8	240.0	-25.8	0.00	0.00	
3,400.0	5.48	96.15	3,388.4	-26.9	249.5	-26.9	0.00	0.00	
3,500.0	5.48	96.15	3,487.9	-27.9	259.0	-27.9	0.00	0.00	
3,600.0	5.48	96.15	3,587.5	-28.9	268.5	-28.9	0.00	0.00	
3,700.0	5.48	96.15	3,687.0	-29.9	277.9	-29.9	0.00	0.00	
3,800.0	5.48	96.15	3,786.6	-30.9	287.4	-30.9	0.00	0.00	
3,900.0	5.48	96.15	3,886.1	-32.0	296.9	-32.0	0.00	0.00	
4,000.0	5.48	96.15	3,985.7	-33.0	306.4	-33.0	0.00	0.00	
4,100.0	5.48	96.15	4,085.2	-34.0	315.9	-34.0	0.00	0.00	
4,200.0	5.48	96.15	4,184.7	-35.0	325.4	-35.0	0.00	0.00	
4,300.0	5.48	96.15	4,284.3	-36.1	334.9	-36.1	0.00	0.00	
4,400.0	5.48	96.15	4,383.8	-37.1	344.4	-37.1	0.00	0.00	
4,454.4	5.48	96.15	4,438.0	-37.6	349.6	-37.6	0.00	0.00	Sussex
4,500.0	5.48	96.15	4,483.4	-38.1	353.9	-38.1	0.00	0.00	
4,600.0	5.48	96.15	4,582.9	-39.1	363.4	-39.1	0.00	0.00	
4,700.0	5.48	96.15	4,682.5	-40.2	372.9	-40.2	0.00	0.00	
4,800.0	5.48	96.15	4,782.0	-41.2	382.4	-41.2	0.00	0.00	
4,900.0	5.48	96.15	4,881.5	-42.2	391.9	-42.2	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	5.48	96.15	4,981.1	-43.2	401.4	-43.2	0.00	0.00	
5,024.0	5.48	96.15	5,005.0	-43.5	403.7	-43.5	0.00	0.00	Shannon
5,100.0	5.48	96.15	5,080.6	-44.2	410.9	-44.2	0.00	0.00	
5,200.0	5.48	96.15	5,180.2	-45.3	420.4	-45.3	0.00	0.00	
5,300.0	5.48	96.15	5,279.7	-46.3	429.9	-46.3	0.00	0.00	
5,400.0	5.48	96.15	5,379.3	-47.3	439.4	-47.3	0.00	0.00	
5,500.0	5.48	96.15	5,478.8	-48.3	448.9	-48.3	0.00	0.00	
5,600.0	5.48	96.15	5,578.3	-49.4	458.4	-49.4	0.00	0.00	
5,700.0	5.48	96.15	5,677.9	-50.4	467.9	-50.4	0.00	0.00	
5,800.0	5.48	96.15	5,777.4	-51.4	477.4	-51.4	0.00	0.00	
5,900.0	5.48	96.15	5,877.0	-52.4	486.9	-52.4	0.00	0.00	
6,000.0	5.48	96.15	5,976.5	-53.4	496.4	-53.4	0.00	0.00	
6,100.0	5.48	96.15	6,076.1	-54.5	505.9	-54.5	0.00	0.00	
6,200.0	5.48	96.15	6,175.6	-55.5	515.4	-55.5	0.00	0.00	
6,300.0	5.48	96.15	6,275.1	-56.5	524.9	-56.5	0.00	0.00	
6,400.0	5.48	96.15	6,374.7	-57.5	534.4	-57.5	0.00	0.00	
6,500.0	5.48	96.15	6,474.2	-58.6	543.9	-58.6	0.00	0.00	
6,554.0	5.48	96.15	6,528.0	-59.1	549.1	-59.1	0.00	0.00	Teepee Buttes (*if present)
6,600.0	5.48	96.15	6,573.8	-59.6	553.4	-59.6	0.00	0.00	
6,700.0	5.48	96.15	6,673.3	-60.6	562.9	-60.6	0.00	0.00	
6,800.0	5.48	96.15	6,772.9	-61.6	572.4	-61.6	0.00	0.00	
6,900.0	5.48	96.15	6,872.4	-62.7	581.9	-62.7	0.00	0.00	
6,952.2	5.48	96.15	6,924.4	-63.2	586.9	-63.2	0.00	0.00	Start 10° Build/Turn
7,000.0	6.91	52.60	6,971.9	-61.7	591.4	-61.7	10.00	2.99	
7,100.0	15.24	21.13	7,070.0	-45.7	601.0	-45.7	10.00	8.33	
7,200.0	24.82	12.52	7,163.9	-12.9	610.3	-12.9	10.00	9.58	
7,300.0	34.63	8.55	7,250.6	35.8	619.1	35.8	10.00	9.81	
7,389.4	43.47	6.38	7,320.0	91.6	626.3	91.6	10.00	9.88	Sharon Springs
7,400.0	44.52	6.18	7,327.6	98.9	627.1	98.9	10.00	9.91	
7,464.5	50.91	5.05	7,371.0	146.4	631.7	146.4	10.00	9.92	Niobrara
7,500.0	54.44	4.52	7,392.5	174.5	634.1	174.5	10.00	9.93	
7,600.0	64.37	3.23	7,443.4	260.3	639.8	260.3	10.00	9.94	
7,700.0	74.32	2.14	7,478.6	353.6	644.2	353.6	10.00	9.95	
7,734.9	77.80	1.78	7,487.0	387.5	645.3	387.5	10.00	9.95	B Chalk
7,800.0	84.28	1.15	7,497.1	451.7	647.0	451.7	10.00	9.95	
7,857.5	90.00	0.60	7,500.0	509.1	647.9	509.1	10.00	9.95	LP @ 7500' TVD; 90° Inc
7,900.0	90.00	0.60	7,500.0	551.6	648.3	551.6	0.00	0.00	
8,000.0	90.00	0.60	7,500.0	651.6	649.4	651.6	0.00	0.00	
8,100.0	90.00	0.60	7,500.0	751.6	650.4	751.6	0.00	0.00	
8,200.0	90.00	0.60	7,500.0	851.6	651.4	851.6	0.00	0.00	
8,300.0	90.00	0.60	7,500.0	951.6	652.5	951.6	0.00	0.00	
8,400.0	90.00	0.60	7,500.0	1,051.6	653.5	1,051.6	0.00	0.00	
8,500.0	90.00	0.60	7,500.0	1,151.6	654.6	1,151.6	0.00	0.00	
8,600.0	90.00	0.60	7,500.0	1,251.6	655.6	1,251.6	0.00	0.00	
8,700.0	90.00	0.60	7,500.0	1,351.6	656.7	1,351.6	0.00	0.00	
8,800.0	90.00	0.60	7,500.0	1,451.6	657.7	1,451.6	0.00	0.00	
8,900.0	90.00	0.60	7,500.0	1,551.6	658.8	1,551.6	0.00	0.00	
9,000.0	90.00	0.60	7,500.0	1,651.6	659.8	1,651.6	0.00	0.00	
9,100.0	90.00	0.60	7,500.0	1,751.6	660.9	1,751.6	0.00	0.00	
9,200.0	90.00	0.60	7,500.0	1,851.6	661.9	1,851.6	0.00	0.00	
9,300.0	90.00	0.60	7,500.0	1,951.6	663.0	1,951.6	0.00	0.00	
9,400.0	90.00	0.60	7,500.0	2,051.5	664.0	2,051.5	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,500.0	90.00	0.60	7,500.0	2,151.5	665.1	2,151.5	0.00	0.00	
9,600.0	90.00	0.60	7,500.0	2,251.5	666.1	2,251.5	0.00	0.00	
9,700.0	90.00	0.60	7,500.0	2,351.5	667.2	2,351.5	0.00	0.00	
9,800.0	90.00	0.60	7,500.0	2,451.5	668.2	2,451.5	0.00	0.00	
9,900.0	90.00	0.60	7,500.0	2,551.5	669.3	2,551.5	0.00	0.00	
10,000.0	90.00	0.60	7,500.0	2,651.5	670.3	2,651.5	0.00	0.00	
10,048.5	90.00	0.60	7,500.0	2,700.0	670.8	2,700.0	0.00	0.00	Start 1° Turn
10,100.0	90.00	0.09	7,500.0	2,751.5	671.1	2,751.5	1.00	0.00	
10,200.0	90.00	359.09	7,500.0	2,851.5	670.4	2,851.5	1.00	0.00	
10,300.0	90.00	358.09	7,500.0	2,951.5	667.9	2,951.5	1.00	0.00	
10,400.0	90.00	357.09	7,500.0	3,051.4	663.7	3,051.4	1.00	0.00	
10,500.0	90.00	356.09	7,500.0	3,151.2	657.8	3,151.2	1.00	0.00	
10,600.0	90.00	355.09	7,500.0	3,250.9	650.1	3,250.9	1.00	0.00	
10,700.0	90.00	354.09	7,500.0	3,350.5	640.6	3,350.5	1.00	0.00	
10,800.0	90.00	353.09	7,500.0	3,449.8	629.4	3,449.8	1.00	0.00	
10,900.0	90.00	352.09	7,500.0	3,549.0	616.5	3,549.0	1.00	0.00	
10,908.5	90.00	352.00	7,500.0	3,557.4	615.4	3,557.4	1.00	0.00	EOT; 352° Azi
11,000.0	90.00	352.00	7,500.0	3,648.0	602.6	3,648.0	0.00	0.00	
11,100.0	90.00	352.00	7,500.0	3,747.1	588.7	3,747.1	0.00	0.00	
11,200.0	90.00	352.00	7,500.0	3,846.1	574.8	3,846.1	0.00	0.00	
11,258.5	90.00	352.00	7,500.0	3,904.0	566.7	3,904.0	0.00	0.00	Start 1° Turn
11,300.0	90.00	352.41	7,500.0	3,945.1	561.0	3,945.1	1.00	0.00	
11,400.0	90.00	353.41	7,500.0	4,044.4	548.7	4,044.4	1.00	0.00	
11,500.0	90.00	354.41	7,500.0	4,143.8	538.1	4,143.8	1.00	0.00	
11,600.0	90.00	355.41	7,500.0	4,243.4	529.2	4,243.4	1.00	0.00	
11,700.0	90.00	356.41	7,500.0	4,343.1	522.1	4,343.1	1.00	0.00	
11,800.0	90.00	357.41	7,500.0	4,443.0	516.7	4,443.0	1.00	0.00	
11,900.0	90.00	358.41	7,500.0	4,542.9	513.1	4,542.9	1.00	0.00	
12,000.0	90.00	359.41	7,500.0	4,642.9	511.2	4,642.9	1.00	0.00	
12,100.0	90.00	0.41	7,500.0	4,742.9	511.0	4,742.9	1.00	0.00	
12,171.5	90.00	1.13	7,500.0	4,814.4	512.0	4,814.4	1.00	0.00	EOT; 1.13° Azi
12,200.0	90.00	1.13	7,500.0	4,842.9	512.6	4,842.9	0.00	0.00	
12,300.0	90.00	1.13	7,500.0	4,942.9	514.5	4,942.9	0.00	0.00	
12,400.0	90.00	1.13	7,500.0	5,042.9	516.5	5,042.9	0.00	0.00	
12,500.0	90.00	1.13	7,500.0	5,142.8	518.5	5,142.8	0.00	0.00	
12,600.0	90.00	1.13	7,500.0	5,242.8	520.5	5,242.8	0.00	0.00	
12,700.0	90.00	1.13	7,500.0	5,342.8	522.4	5,342.8	0.00	0.00	
12,800.0	90.00	1.13	7,500.0	5,442.8	524.4	5,442.8	0.00	0.00	
12,900.0	90.00	1.13	7,500.0	5,542.8	526.4	5,542.8	0.00	0.00	
13,000.0	90.00	1.13	7,500.0	5,642.7	528.3	5,642.7	0.00	0.00	
13,100.0	90.00	1.13	7,500.0	5,742.7	530.3	5,742.7	0.00	0.00	
13,200.0	90.00	1.13	7,500.0	5,842.7	532.3	5,842.7	0.00	0.00	
13,300.0	90.00	1.13	7,500.0	5,942.7	534.3	5,942.7	0.00	0.00	
13,400.0	90.00	1.13	7,500.0	6,042.7	536.2	6,042.7	0.00	0.00	
13,500.0	90.00	1.13	7,500.0	6,142.6	538.2	6,142.6	0.00	0.00	
13,600.0	90.00	1.13	7,500.0	6,242.6	540.2	6,242.6	0.00	0.00	
13,700.0	90.00	1.13	7,500.0	6,342.6	542.1	6,342.6	0.00	0.00	
13,800.0	90.00	1.13	7,500.0	6,442.6	544.1	6,442.6	0.00	0.00	
13,900.0	90.00	1.13	7,500.0	6,542.6	546.1	6,542.6	0.00	0.00	
14,000.0	90.00	1.13	7,500.0	6,642.5	548.1	6,642.5	0.00	0.00	
14,100.0	90.00	1.13	7,500.0	6,742.5	550.0	6,742.5	0.00	0.00	
14,200.0	90.00	1.13	7,500.0	6,842.5	552.0	6,842.5	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,300.0	90.00	1.13	7,500.0	6,942.5	554.0	6,942.5	0.00	0.00	
14,400.0	90.00	1.13	7,500.0	7,042.5	555.9	7,042.5	0.00	0.00	
14,457.3	90.00	1.13	7,500.0	7,099.8	557.1	7,099.8	0.00	0.00	TD at 14457.3

Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
Woolley-Becky 2D-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	7,099.8	557.1	1,274,619.88	3,125,524.06	40.086344	-105.051398	
Woolley-Becky 2D-7H-E - plan misses target center by 42.7ft at 10904.4ft MD (7500.0 TVD, 3553.4 N, 615.9 E) - Point	0.00	0.00	7,500.0	3,559.3	658.3	1,271,079.92	3,125,643.07	40.076625	-105.051037	
Woolley-Becky 2D-7H-E - plan misses target center by 71.0ft at 14457.3ft MD (7500.0 TVD, 7099.8 N, 557.1 E) - Point	0.00	0.00	7,571.0	7,099.8	557.1	1,274,619.88	3,125,524.06	40.086344	-105.051398	
2D-7H TGT P4 - plan hits target center - Point	0.00	0.00	7,500.0	2,700.0	670.8	1,270,220.73	3,125,659.94	40.074266	-105.050992	
Woolley-Becky 2D-7H-E - plan misses target center by 71.0ft at 14452.2ft MD (7500.0 TVD, 7094.7 N, 557.0 E) - Point	0.00	0.00	7,571.0	7,094.7	556.5	1,274,614.78	3,125,523.52	40.086330	-105.051400	

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,454.4	4,438.0	Sussex				
5,024.0	5,005.0	Shannon				
6,554.0	6,528.0	Teepee Buttes (*if present)				
7,389.4	7,320.0	Sharon Springs				
7,464.5	7,371.0	Niobrara				
7,734.9	7,487.0	B Chalk				

Cathedral Energy Services

Planning Report

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

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500' MD
1,048.2	1,047.4	-2.8	26.1	EOB; 5.48° Inc
6,952.2	6,924.4	-63.2	586.9	Start 10° Build/Turn
7,857.5	7,500.0	509.1	647.9	LP @ 7500' TVD; 90° Inc
10,048.5	7,500.0	2,700.0	670.8	Start 1° Turn
10,908.5	7,500.0	3,557.4	615.4	EOT; 352° Azi
11,258.5	7,500.0	3,904.0	566.7	Start 1° Turn
12,171.5	7,500.0	4,814.4	512.0	EOT; 1.13° Azi
14,457.3	7,500.0	7,099.8	557.1	TD at 14457.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2D-7H-E168

Hz

Plan #5

Anticollision Report

23 June, 2015

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	6/23/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,457.3	Plan #5 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design				Ellipses (ft)		
S18-T1N-R68W (Erie Woolley)						
Erie-Woolley 4A-18H-I168 - Hz - Plan #2						Out of range
Erie-Woolley 4B-18H-I168 - Hz - Plan #2						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	8,985.3	7,714.9	737.7	691.3	15.883	CC, ES
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,000.0	7,715.4	737.9	691.4	15.867	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	8,931.0	7,549.0	562.2	516.9	12.397	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,100.0	7,549.0	587.1	537.3	11.781	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,544.7	7,702.2	745.8	703.5	17.660	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,600.0	7,727.2	747.7	705.2	17.565	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,034.6	7,442.8	364.2	319.3	8.113	CC, ES, SF
WOOLLEY 31-7 (EXISTING) - ENCANA WELL - PLAN O						Out of range
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN						Out of range
S1-T1N-R69W (Bailey)						
Bailey 8-8-1 - DD - DD						Out of range
Bailey 8-8-1 - DD - Plan #1						Out of range
S6-T1N-R68W (Bearden)						
Bearden #1 (Existing Well) - Existing - Existing	10,748.5	7,473.7	525.8	451.5	7.074	CC, ES
Bearden #1 (Existing Well) - Existing - Existing	10,800.0	7,474.2	528.6	452.0	6.903	SF
Bearden 13-6 (Existing Well) - DD - DD	11,621.9	7,607.5	510.4	416.4	5.428	CC, ES, SF
Bearden 14-6(Existing Well) - DD - DD	10,200.0	7,643.4	689.0	615.7	9.403	SF
Bearden 14-6(Existing Well) - DD - DD	10,266.9	7,644.8	686.1	613.9	9.500	CC, ES
Bearden 24-6 - DD - Plan #1	10,227.5	7,557.8	575.3	503.7	8.036	CC, ES
Bearden 24-6 - DD - Plan #1	10,300.0	7,557.8	580.3	506.8	7.897	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,080.7	7,472.8	327.4	247.8	4.115	CC
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,100.0	7,473.0	328.0	247.1	4.055	ES, SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,621.9	7,607.5	510.5	416.4	5.429	CC, ES, SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,200.0	7,643.4	689.0	615.7	9.403	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,266.8	7,644.8	686.1	613.9	9.500	CC, ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,659.4	7,455.8	773.2	682.6	8.537	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,700.0	7,457.6	774.1	682.2	8.424	ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,800.0	7,462.3	784.2	689.9	8.317	SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,200.0	7,610.5	114.3	2.1	1.019	Level 2, CC, ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,625.1	7,675.3	82.2	11.6	1.165	Level 2, CC, ES, SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,654.5	7,453.0	175.1	49.0	1.388	Level 3, CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	12,879.4	7,457.0	439.0	326.4	3.898	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,231.7	7,448.0	466.3	330.1	3.424	CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	12,951.8	7,454.0	881.1	767.2	7.737	CC, ES
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,000.0	7,454.0	882.4	767.5	7.675	SF
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S						Out of range
Morgan Hills 1A-7H-A168 - HZ - Plan #2						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS	976.2	963.6	986.4	982.9	288.771	CC
Thomas 7-12 (Existing) - Existing - NO SURVEYS	1,400.0	1,385.6	987.2	982.1	194.002	ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	3,400.0	3,376.4	1,013.1	999.8	76.529	SF
THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	8,985.3	7,714.9	737.7	691.3	15.883	CC, ES
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,000.0	7,715.4	737.9	691.4	15.867	SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	500.0	588.0	164.3	162.4	87.573	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	7,500.0	7,480.5	733.9	707.5	27.811	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	8,962.9	7,531.2	499.9	454.1	10.908	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,100.0	7,536.0	518.4	468.6	10.419	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,544.7	7,702.2	745.8	703.5	17.660	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,600.0	7,727.2	747.7	705.2	17.565	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,034.6	7,442.8	364.2	319.3	8.113	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,181.3	7,538.6	51.8	17.9	1.528	CC, ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,200.0	7,537.1	55.1	18.7	1.515	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	200.0	200.0	22.4	21.7	34.301	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	14,458.1	14,681.2	1,091.9	844.5	4.413	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	300.0	300.0	15.1	14.1	15.086	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	14,458.1	14,422.5	690.2	437.0	2.725	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	500.0	500.0	7.6	5.9	4.445	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	14,458.1	14,625.0	404.0	199.0	1.971	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	400.0	400.0	7.6	6.2	5.594	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	14,458.1	14,691.5	424.3	213.0	2.008	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	300.0	300.0	15.1	14.1	15.090	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	14,458.1	14,287.6	698.0	443.2	2.739	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	203.3	203.3	22.4	21.7	33.704	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	300.0	299.8	22.6	21.6	22.575	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	14,458.1	14,847.1	1,077.2	829.5	4.350	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	200.0	200.0	29.9	29.3	45.881	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	1,100.0	1,091.8	69.0	65.3	18.326	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	200.0	200.0	523.1	522.4	801.367	CC
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	500.0	499.7	523.2	521.4	304.373	ES

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	5,100.0	5,063.8	1,014.6	995.0	51.785	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	300.0	300.0	64.9	63.9	64.815	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	7,700.0	7,473.7	832.9	804.7	29.502	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	565.7	566.4	54.5	52.6	28.206	CC
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	600.0	600.8	54.6	52.5	26.581	ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	7,734.3	7,559.3	439.5	409.3	14.553	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	500.0	500.0	45.1	43.4	26.508	CC
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	600.0	600.5	45.4	43.3	22.138	ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	7,575.1	7,628.5	168.4	140.6	6.042	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	500.0	500.0	35.0	33.3	20.580	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	7,829.0	7,578.0	77.2	45.5	2.434	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	787.6	788.7	16.0	13.2	5.789	CC
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	800.0	801.2	16.0	13.2	5.692	ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	900.0	901.1	17.4	14.2	5.373	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	605.7	606.1	5.4	3.3	2.559	CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEYS														Offset Site Error: 0.0 ft	
Survey Program: 132-Geolink MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
8,300.0	7,500.0	7,694.2	7,534.0	25.1	26.1	-88.60	1,644.0	-78.1	1,006.7	961.8	44.95	22.398			
8,400.0	7,500.0	7,697.2	7,537.0	26.4	26.1	-88.84	1,644.0	-78.1	941.5	896.2	45.36	20.758			
8,500.0	7,500.0	7,700.2	7,540.0	27.8	26.1	-89.07	1,644.1	-78.1	882.9	837.2	45.69	19.323			
8,600.0	7,500.0	7,703.2	7,543.0	29.2	26.1	-89.30	1,644.2	-78.1	832.2	786.3	45.92	18.122			
8,700.0	7,500.0	7,706.3	7,546.0	30.7	26.1	-89.54	1,644.3	-78.1	790.9	744.9	46.04	17.178			
8,800.0	7,500.0	7,709.3	7,549.1	32.1	26.1	-89.77	1,644.4	-78.0	760.6	714.5	46.10	16.498			
8,900.0	7,500.0	7,712.3	7,552.1	33.6	26.1	-90.01	1,644.5	-78.0	742.6	696.4	46.22	16.069			
8,985.3	7,500.0	7,714.9	7,554.7	34.9	26.1	-90.21	1,644.6	-78.0	737.7	691.3	46.45	15.883	CC, ES		
9,000.0	7,500.0	7,715.4	7,555.2	35.2	26.1	-90.25	1,644.6	-78.0	737.9	691.4	46.50	15.867	SF		
9,100.0	7,500.0	7,718.5	7,558.2	36.7	26.1	-90.48	1,644.7	-78.0	746.6	699.6	46.99	15.890			
9,200.0	7,500.0	7,721.5	7,561.3	38.3	26.1	-90.72	1,644.8	-78.0	768.3	720.8	47.55	16.159			
9,300.0	7,500.0	7,724.6	7,564.4	39.9	26.1	-90.96	1,644.9	-78.0	802.0	754.0	48.04	16.694			
9,400.0	7,500.0	7,727.7	7,567.5	41.4	26.1	-91.20	1,645.0	-78.0	846.2	797.8	48.37	17.493			
9,500.0	7,500.0	7,730.8	7,570.6	43.1	26.1	-91.45	1,645.1	-78.0	899.4	850.9	48.53	18.533			
9,600.0	7,500.0	7,734.0	7,573.7	44.7	26.1	-91.69	1,645.2	-77.9	960.1	911.6	48.54	19.779			
9,700.0	7,500.0	7,737.1	7,576.9	46.3	26.1	-91.93	1,645.3	-77.9	1,026.9	978.5	48.45	21.196			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 8512-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,100.0	7,500.0	7,549.0	7,549.0	22.7	13.2	90.00	1,576.6	1,221.3	1,003.3	976.0	27.34	36.699	
8,200.0	7,500.0	7,549.0	7,549.0	23.9	13.2	90.00	1,576.6	1,221.3	922.2	894.8	27.41	33.645	
8,300.0	7,500.0	7,549.0	7,549.0	25.1	13.2	90.00	1,576.6	1,221.3	845.1	817.2	27.87	30.318	
8,400.0	7,500.0	7,549.0	7,549.0	26.4	13.2	90.00	1,576.6	1,221.3	773.3	744.4	28.92	26.738	
8,500.0	7,500.0	7,549.0	7,549.0	27.8	13.2	90.00	1,576.6	1,221.3	708.4	677.7	30.72	23.061	
8,600.0	7,500.0	7,549.0	7,549.0	29.2	13.2	90.00	1,576.6	1,221.3	652.4	619.1	33.34	19.568	
8,700.0	7,500.0	7,549.0	7,549.0	30.7	13.2	90.00	1,576.6	1,221.3	607.8	571.1	36.70	16.561	
8,800.0	7,500.0	7,549.0	7,549.0	32.1	13.2	90.00	1,576.6	1,221.3	577.3	536.8	40.51	14.252	
8,900.0	7,500.0	7,549.0	7,549.0	33.6	13.2	90.00	1,576.6	1,221.3	563.1	518.8	44.28	12.718	
8,931.0	7,500.0	7,549.0	7,549.0	34.1	13.2	90.00	1,576.6	1,221.3	562.2	516.9	45.35	12.397 CC, ES	
9,000.0	7,500.0	7,549.0	7,549.0	35.2	13.2	90.00	1,576.6	1,221.3	566.5	519.0	47.50	11.926	
9,100.0	7,500.0	7,549.0	7,549.0	36.7	13.2	90.00	1,576.6	1,221.3	587.1	537.3	49.84	11.781 SF	
9,200.0	7,500.0	7,549.0	7,549.0	38.3	13.2	90.00	1,576.6	1,221.3	623.3	572.1	51.23	12.166	
9,300.0	7,500.0	7,549.0	7,549.0	39.9	13.2	90.00	1,576.6	1,221.3	672.5	620.7	51.85	12.970	
9,400.0	7,500.0	7,549.0	7,549.0	41.4	13.2	90.00	1,576.6	1,221.3	732.2	680.3	51.93	14.099	
9,500.0	7,500.0	7,549.0	7,549.0	43.1	13.2	90.00	1,576.6	1,221.3	800.0	748.3	51.69	15.477	
9,600.0	7,500.0	7,549.0	7,549.0	44.7	13.2	90.00	1,576.6	1,221.3	873.9	822.7	51.27	17.046	
9,700.0	7,500.0	7,549.0	7,549.0	46.3	13.2	90.00	1,576.6	1,221.3	952.7	901.9	50.77	18.763	
9,800.0	7,500.0	7,549.0	7,549.0	47.9	13.2	90.00	1,576.6	1,221.3	1,035.1	984.8	50.26	20.593	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,700.0	4,682.5	4,994.9	4,781.2	10.5	25.2	-23.52	264.0	1,357.0	1,031.1	997.6	33.50	30.780		
4,800.0	4,782.0	5,077.9	4,861.8	10.8	25.6	-22.59	244.6	1,359.8	1,018.7	984.6	34.08	29.891		
4,900.0	4,881.5	5,173.2	4,955.1	11.0	25.9	-21.68	225.3	1,363.0	1,007.5	972.9	34.64	29.084		
5,000.0	4,981.1	5,269.2	5,049.6	11.3	26.2	-20.92	208.9	1,365.6	996.7	961.6	35.15	28.358		
5,100.0	5,080.6	5,367.4	5,146.7	11.5	26.5	-20.26	194.4	1,367.8	986.2	950.6	35.62	27.685		
5,200.0	5,180.2	5,469.1	5,247.6	11.8	26.8	-19.70	181.5	1,369.3	975.7	939.7	36.06	27.056		
5,300.0	5,279.7	5,569.5	5,347.5	12.0	27.0	-19.29	171.3	1,370.1	965.1	928.7	36.45	26.476		
5,400.0	5,379.3	5,664.0	5,441.7	12.2	27.2	-19.04	164.1	1,370.3	954.6	917.8	36.80	25.940		
5,500.0	5,478.8	5,749.5	5,527.1	12.5	27.3	-18.93	159.6	1,370.9	945.1	908.0	37.10	25.477		
5,600.0	5,578.3	5,866.3	5,643.9	12.7	27.3	-19.03	157.7	1,371.6	936.5	899.1	37.35	25.071		
5,700.0	5,677.9	5,958.8	5,736.4	13.0	27.4	-19.22	157.6	1,370.4	926.1	888.5	37.61	24.625		
5,800.0	5,777.4	6,052.0	5,829.5	13.2	27.5	-19.39	157.4	1,370.4	917.0	879.2	37.87	24.217		
5,900.0	5,877.0	6,145.3	5,922.8	13.4	27.5	-19.56	157.2	1,371.1	908.7	870.6	38.11	23.844		
6,000.0	5,976.5	6,243.9	6,021.5	13.7	27.6	-19.77	157.7	1,371.7	900.4	862.0	38.35	23.475		
6,100.0	6,076.1	6,340.2	6,117.7	13.9	27.7	-20.00	158.2	1,372.5	892.3	853.7	38.60	23.115		
6,200.0	6,175.6	6,439.1	6,216.6	14.2	27.7	-20.21	158.6	1,373.7	884.7	845.8	38.86	22.767		
6,300.0	6,275.1	6,542.5	6,320.0	14.4	27.8	-20.44	158.9	1,374.7	876.7	837.6	39.11	22.416		
6,400.0	6,374.7	6,643.3	6,420.8	14.6	27.9	-20.67	159.2	1,375.4	868.5	829.1	39.37	22.060		
6,500.0	6,474.2	6,742.7	6,520.2	14.9	27.9	-20.90	159.4	1,376.0	860.2	820.6	39.63	21.708		
6,600.0	6,573.8	6,841.9	6,619.4	15.1	28.0	-21.12	159.5	1,376.8	852.0	812.1	39.89	21.359		
6,700.0	6,673.3	6,941.1	6,718.6	15.4	28.1	-21.33	159.4	1,377.6	843.9	803.7	40.16	21.015		
6,800.0	6,772.9	7,040.1	6,817.6	15.6	28.2	-21.54	159.2	1,378.5	835.8	795.4	40.42	20.675		
6,900.0	6,872.4	7,139.0	6,916.5	15.9	28.3	-21.74	158.9	1,379.5	827.8	787.1	40.70	20.338		
7,000.0	6,971.9	7,237.4	7,014.9	16.1	28.4	-21.97	158.0	1,380.8	819.4	778.4	40.97	19.998		
7,100.0	7,070.0	7,338.1	7,115.6	16.3	28.5	-22.22	156.5	1,382.3	807.1	765.9	41.15	19.613		
7,200.0	7,163.9	7,436.7	7,214.2	16.5	28.6	-22.48	155.6	1,383.0	799.9	749.6	41.26	19.169		
7,300.0	7,250.6	7,531.4	7,308.9	16.8	28.6	-22.75	155.1	1,382.9	773.1	731.7	41.35	18.694		
7,400.0	7,327.6	7,615.9	7,393.4	17.1	28.7	-23.02	154.8	1,381.8	756.9	715.3	41.55	18.217		
7,500.0	7,392.5	7,678.8	7,456.2	17.5	28.8	-23.29	154.6	1,380.7	746.9	705.0	41.95	17.805		
7,544.7	7,417.1	7,702.2	7,479.6	17.8	28.8	-23.52	154.6	1,380.3	745.8	703.5	42.23	17.660 CC, ES		
7,600.0	7,443.4	7,727.2	7,504.6	18.1	28.8	-23.77	154.5	1,380.0	747.7	705.2	42.57	17.565 SF		
7,700.0	7,478.6	7,760.8	7,538.2	18.8	28.8	-24.14	154.4	1,379.6	761.9	718.7	43.27	17.610		
7,800.0	7,497.1	7,778.3	7,555.8	19.6	28.8	-24.50	154.4	1,379.4	790.5	746.6	43.87	18.021		
7,900.0	7,500.0	7,780.9	7,558.3	20.5	28.8	-24.89	154.4	1,379.4	832.0	787.8	44.25	18.804		
8,000.0	7,500.0	7,780.7	7,558.2	21.5	28.8	-25.28	154.4	1,379.4	883.3	838.9	44.43	19.882		
8,100.0	7,500.0	7,780.6	7,558.0	22.7	28.8	-25.67	154.4	1,379.4	942.4	898.0	44.45	21.202		
8,200.0	7,500.0	7,780.4	7,557.8	23.9	28.8	-26.05	154.4	1,379.4	1,008.0	963.6	44.37	22.720		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVEYS											Offset Site Error: 0.0 ft		
Survey Program: 41-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
3,000.0	2,990.2	3,569.3	3,344.7	6.5	21.0	-39.14	470.7	1,008.8	985.2	963.8	21.39	46.056	
3,100.0	3,089.8	3,663.2	3,428.7	6.7	21.7	-37.40	428.9	1,002.7	947.8	925.4	22.46	42.199	
3,200.0	3,189.3	3,757.7	3,513.2	6.9	22.5	-35.60	387.5	995.2	910.3	886.8	23.53	38.683	
3,300.0	3,288.9	3,843.0	3,590.1	7.2	23.1	-33.95	351.3	987.4	873.6	849.0	24.56	35.567	
3,400.0	3,388.4	3,926.9	3,666.5	7.4	23.7	-32.34	317.4	979.4	838.2	812.6	25.59	32.752	
3,500.0	3,487.9	4,008.3	3,740.6	7.7	24.3	-30.64	284.7	972.4	804.3	777.7	26.66	30.165	
3,600.0	3,587.5	4,097.0	3,821.3	7.9	25.0	-28.58	248.5	965.9	772.3	744.5	27.82	27.757	
3,700.0	3,687.0	4,177.2	3,894.0	8.1	25.6	-26.50	214.9	960.5	741.5	712.5	29.02	25.552	
3,800.0	3,786.6	4,257.7	3,966.7	8.4	26.2	-24.18	180.6	957.2	714.0	683.7	30.27	23.589	
3,900.0	3,886.1	4,346.5	4,047.0	8.6	26.9	-21.45	142.7	953.7	688.3	656.7	31.56	21.806	
4,000.0	3,985.7	4,442.6	4,133.9	8.9	27.7	-18.32	102.0	950.2	664.7	631.8	32.93	20.185	
4,100.0	4,085.2	4,545.9	4,225.4	9.1	28.5	-14.39	54.3	945.1	641.4	607.0	34.42	18.635	
4,200.0	4,184.7	4,634.8	4,303.6	9.3	29.3	-10.71	12.3	939.8	619.8	584.0	35.79	17.317	
4,300.0	4,284.3	4,714.5	4,374.3	9.6	29.9	-7.37	-24.1	935.4	601.8	564.8	36.98	16.274	
4,400.0	4,383.8	4,799.6	4,451.4	9.8	30.5	-3.93	-60.1	931.8	588.0	550.0	38.02	15.465	
4,500.0	4,483.4	4,891.8	4,536.4	10.1	31.1	-0.44	-95.5	928.2	577.1	538.2	38.94	14.820	
4,600.0	4,582.9	4,995.7	4,633.7	10.3	31.8	3.23	-131.5	923.7	567.8	528.0	39.78	14.275	
4,700.0	4,682.5	5,088.7	4,721.8	10.5	32.3	6.36	-161.1	919.0	559.4	519.0	40.43	13.838	
4,800.0	4,782.0	5,186.2	4,815.1	10.8	32.8	9.39	-189.1	914.8	552.9	511.9	40.96	13.500	
4,900.0	4,881.5	5,287.2	4,912.8	11.0	33.2	12.19	-214.1	911.0	547.1	505.7	41.39	13.220	
5,000.0	4,981.1	5,388.3	5,011.8	11.3	33.6	14.54	-234.4	907.8	541.7	500.0	41.72	12.984	
5,100.0	5,080.6	5,490.7	5,112.7	11.5	33.9	16.63	-251.6	905.2	536.4	494.4	42.02	12.766	
5,200.0	5,180.2	5,598.7	5,219.5	11.8	34.2	18.61	-267.0	902.2	530.5	488.2	42.25	12.555	
5,300.0	5,279.7	5,705.4	5,325.7	12.0	34.4	20.18	-277.7	899.1	523.2	480.7	42.46	12.321	
5,400.0	5,379.3	5,808.8	5,428.8	12.2	34.6	21.43	-285.0	896.2	515.0	472.3	42.63	12.081	
5,500.0	5,478.8	5,910.3	5,530.2	12.5	34.7	22.35	-289.3	894.5	506.6	463.8	42.79	11.839	
5,600.0	5,578.3	6,017.0	5,636.8	12.7	34.8	23.11	-291.3	892.7	497.1	454.2	42.94	11.578	
5,700.0	5,677.9	6,117.9	5,737.8	13.0	34.8	23.66	-291.3	890.8	486.7	443.6	43.10	11.292	
5,800.0	5,777.4	6,216.8	5,836.6	13.2	34.9	24.22	-291.3	889.0	476.4	433.2	43.28	11.009	
5,900.0	5,877.0	6,315.8	5,935.6	13.4	35.0	24.81	-291.3	887.3	466.3	422.8	43.44	10.733	
6,000.0	5,976.5	6,414.8	6,034.6	13.7	35.0	25.43	-291.5	885.6	456.3	412.7	43.60	10.464	
6,100.0	6,076.1	6,513.6	6,133.4	13.9	35.1	26.07	-291.6	884.1	446.4	402.6	43.76	10.201	
6,200.0	6,175.6	6,612.0	6,231.7	14.2	35.1	26.67	-291.4	883.0	436.8	392.9	43.90	9.948	
6,300.0	6,275.1	6,710.7	6,330.4	14.4	35.2	27.22	-290.8	882.4	427.4	383.3	44.06	9.700	
6,400.0	6,374.7	6,809.8	6,429.5	14.6	35.2	27.81	-290.4	881.8	418.2	374.0	44.21	9.458	
6,500.0	6,474.2	6,909.2	6,528.9	14.9	35.3	28.48	-290.3	881.1	409.1	364.7	44.36	9.222	
6,600.0	6,573.8	7,008.7	6,628.4	15.1	35.3	29.20	-290.3	880.3	400.1	355.6	44.50	8.991	
6,700.0	6,673.3	7,108.7	6,728.5	15.4	35.4	29.98	-290.4	879.3	391.0	346.4	44.63	8.762	
6,800.0	6,772.9	7,208.7	6,828.4	15.6	35.5	30.85	-290.7	878.0	381.9	337.2	44.74	8.535	
6,900.0	6,872.4	7,308.4	6,928.1	15.9	35.6	31.77	-291.0	876.6	372.8	327.9	44.85	8.312	
7,000.0	6,971.9	7,408.3	7,028.0	16.1	35.6	32.66	-291.3	875.0	364.9	320.0	44.91	8.124	
7,034.6	7,006.2	7,442.8	7,062.5	16.2	35.7	33.59	-291.3	874.4	364.2	319.3	44.89	8.113 CC, ES, SF	
7,100.0	7,070.0	7,507.2	7,126.9	16.3	35.7	34.54	-291.4	873.3	366.8	322.1	44.68	8.209	
7,200.0	7,163.9	7,601.3	7,221.0	16.5	35.8	35.50	-291.4	871.5	381.9	337.8	44.09	8.662	
7,300.0	7,250.6	7,688.2	7,307.8	16.8	35.8	36.46	-291.4	869.8	412.2	369.1	43.18	9.547	
7,400.0	7,327.6	7,765.9	7,385.6	17.1	35.9	37.41	-291.2	868.3	458.7	416.6	42.10	10.897	
7,500.0	7,392.5	7,832.0	7,451.6	17.5	35.9	38.36	-290.9	867.0	520.5	479.5	41.02	12.691	
7,600.0	7,443.4	7,884.1	7,503.7	18.1	35.9	39.31	-290.6	866.0	595.6	555.5	40.08	14.861	
7,700.0	7,478.6	7,919.8	7,539.4	18.8	36.0	40.26	-290.3	865.4	680.9	641.6	39.32	17.316	
7,800.0	7,497.1	7,939.0	7,558.6	19.6	36.0	41.21	-290.2	865.1	773.4	734.6	38.76	19.951	
7,900.0	7,500.0	7,942.6	7,562.2	20.5	36.0	42.16	-290.1	865.0	869.3	830.9	38.36	22.662	
8,000.0	7,500.0	7,943.4	7,563.0	21.5	36.0	43.11	-290.1	865.0	966.2	928.1	38.07	25.381	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden #1 (Existing Well) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 100-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,900.0	7,500.0	7,465.8	7,463.4	49.6	13.3	89.33	3,457.3	1,158.0	1,029.2	995.8	33.38	30.833		
10,000.0	7,500.0	7,466.7	7,464.2	51.2	13.3	89.43	3,457.3	1,158.0	941.9	906.5	35.37	26.631		
10,100.0	7,500.0	7,467.6	7,465.1	52.9	13.3	89.54	3,457.3	1,158.0	857.4	819.4	38.02	22.551		
10,200.0	7,500.0	7,468.5	7,466.0	54.5	13.3	89.66	3,457.3	1,158.0	777.7	736.1	41.56	18.713		
10,300.0	7,500.0	7,469.4	7,467.0	56.2	13.3	89.77	3,457.3	1,158.0	704.3	658.2	46.12	15.270		
10,400.0	7,500.0	7,470.4	7,467.9	57.8	13.3	89.88	3,457.3	1,158.0	639.6	587.8	51.77	12.354		
10,500.0	7,500.0	7,471.3	7,468.8	59.5	13.3	89.98	3,457.3	1,158.0	586.5	528.1	58.34	10.052		
10,600.0	7,500.0	7,472.3	7,469.8	61.1	13.3	90.08	3,457.3	1,158.0	548.3	483.0	65.31	8.395		
10,700.0	7,500.0	7,473.2	7,470.7	62.8	13.3	90.19	3,457.3	1,158.0	528.3	456.6	71.73	7.365		
10,748.5	7,500.0	7,473.7	7,471.2	63.6	13.3	90.24	3,457.3	1,158.0	525.8	451.5	74.33	7.074 CC, ES		
10,800.0	7,500.0	7,474.2	7,471.7	64.4	13.3	90.29	3,457.3	1,158.0	528.6	452.0	76.58	6.903 SF		
10,900.0	7,500.0	7,475.2	7,472.7	66.1	13.3	90.40	3,457.3	1,158.0	549.1	469.9	79.28	6.927		
11,000.0	7,500.0	7,476.1	7,473.7	67.7	13.3	90.51	3,457.4	1,158.0	587.2	507.2	80.00	7.339		
11,100.0	7,500.0	7,477.1	7,474.7	69.4	13.3	90.62	3,457.4	1,158.0	638.7	559.4	79.32	8.052		
11,200.0	7,500.0	7,478.1	7,475.6	71.1	13.3	90.73	3,457.4	1,157.9	700.9	623.0	77.85	9.003		
11,300.0	7,500.0	7,479.1	7,476.6	72.7	13.3	90.83	3,457.4	1,157.9	770.9	694.9	76.03	10.140		
11,400.0	7,500.0	7,480.1	7,477.6	74.4	13.3	90.92	3,457.4	1,157.9	846.0	771.9	74.10	11.417		
11,500.0	7,500.0	7,481.1	7,478.6	76.1	13.3	91.00	3,457.4	1,157.9	924.9	852.7	72.19	12.811		
11,600.0	7,500.0	7,482.1	7,479.6	77.8	13.3	91.08	3,457.4	1,157.9	1,006.6	936.2	70.37	14.305		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden 13-6 (Existing Well) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 765-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,800.0	7,500.0	7,583.9	7,465.8	64.4	24.1	-87.85	4,225.7	18.5	987.8	922.8	64.99	15.199		
10,900.0	7,500.0	7,586.7	7,468.6	66.1	24.1	-88.12	4,225.8	18.5	903.3	835.8	67.54	13.375		
11,000.0	7,500.0	7,589.5	7,471.4	67.7	24.1	-88.43	4,225.9	18.5	821.8	751.3	70.46	11.663		
11,100.0	7,500.0	7,592.3	7,474.2	69.4	24.1	-88.76	4,226.0	18.5	744.7	670.9	73.84	10.086		
11,200.0	7,500.0	7,595.2	7,477.1	71.1	24.1	-89.09	4,226.0	18.5	673.7	596.0	77.72	8.668		
11,300.0	7,500.0	7,598.0	7,480.0	72.7	24.1	-89.42	4,226.1	18.5	611.0	528.9	82.09	7.443		
11,400.0	7,500.0	7,600.9	7,482.9	74.4	24.1	-89.76	4,226.2	18.5	560.5	473.7	86.74	6.462		
11,500.0	7,500.0	7,603.9	7,485.8	76.1	24.1	-90.09	4,226.3	18.6	526.0	435.0	90.99	5.781		
11,600.0	7,500.0	7,606.9	7,488.8	77.8	24.1	-90.43	4,226.4	18.6	510.9	417.2	93.74	5.451		
11,621.9	7,500.0	7,607.5	7,489.5	78.2	24.1	-90.50	4,226.4	18.6	510.4	416.4	94.03	5.428 CC, ES, SF		
11,700.0	7,500.0	7,609.9	7,491.8	79.5	24.1	-90.77	4,226.5	18.6	516.9	422.9	94.02	5.498		
11,800.0	7,500.0	7,613.0	7,494.9	81.2	24.2	-91.12	4,226.5	18.6	543.2	451.4	91.76	5.919		
11,900.0	7,500.0	7,616.1	7,498.0	82.9	24.2	-91.48	4,226.6	18.6	587.1	499.3	87.79	6.687		
12,000.0	7,500.0	7,619.3	7,501.2	84.7	24.2	-91.87	4,226.7	18.7	645.0	561.9	83.14	7.758		
12,100.0	7,500.0	7,622.5	7,504.5	86.4	24.2	-92.28	4,226.8	18.7	713.5	635.0	78.55	9.083		
12,200.0	7,500.0	7,625.8	7,507.7	88.1	24.2	-92.70	4,226.9	18.7	789.8	715.4	74.43	10.612		
12,300.0	7,500.0	7,629.2	7,511.1	89.8	24.2	-93.10	4,227.0	18.8	871.2	800.3	70.83	12.300		
12,400.0	7,500.0	7,631.0	7,512.9	91.6	24.2	-93.32	4,227.1	18.8	956.0	888.3	67.72	14.117		
12,500.0	7,500.0	7,631.0	7,512.9	93.3	24.2	-93.32	4,227.1	18.8	1,043.6	978.5	65.07	16.039		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden 14-6(Existing Well) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 797-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,500.0	7,500.0	7,628.7	7,463.2	43.1	25.6	-88.19	2,899.1	-16.8	1,012.0	948.5	63.51	15.936		
9,600.0	7,500.0	7,630.8	7,465.3	44.7	25.6	-88.36	2,899.1	-16.8	941.4	875.6	65.79	14.308		
9,700.0	7,500.0	7,633.0	7,467.4	46.3	25.6	-88.54	2,899.2	-16.8	876.4	808.3	68.10	12.869		
9,800.0	7,500.0	7,635.1	7,469.5	47.9	25.6	-88.72	2,899.2	-16.8	818.5	748.2	70.31	11.642		
9,900.0	7,500.0	7,637.2	7,471.6	49.6	25.6	-88.89	2,899.3	-16.9	769.3	697.1	72.19	10.657		
10,000.0	7,500.0	7,639.3	7,473.7	51.2	25.6	-89.06	2,899.3	-16.9	730.6	657.1	73.49	9.941		
10,100.0	7,500.0	7,641.4	7,475.8	52.9	25.6	-89.23	2,899.4	-16.9	703.8	629.9	73.92	9.521		
10,200.0	7,500.0	7,643.4	7,477.9	54.5	25.7	-89.41	2,899.4	-16.9	689.0	615.7	73.27	9.403 SF		
10,266.9	7,500.0	7,644.8	7,479.3	55.6	25.7	-89.52	2,899.4	-16.9	686.1	613.9	72.23	9.500 CC, ES		
10,300.0	7,500.0	7,645.5	7,480.0	56.2	25.7	-89.58	2,899.4	-16.9	686.8	615.3	71.54	9.601		
10,400.0	7,500.0	7,647.6	7,482.1	57.8	25.7	-89.75	2,899.5	-17.0	697.4	628.5	68.91	10.120		
10,500.0	7,500.0	7,649.7	7,484.1	59.5	25.7	-89.93	2,899.5	-17.0	720.1	654.4	65.75	10.952		
10,600.0	7,500.0	7,651.8	7,486.2	61.1	25.7	-90.10	2,899.6	-17.0	753.9	691.4	62.47	12.069		
10,700.0	7,500.0	7,653.9	7,488.3	62.8	25.7	-90.27	2,899.6	-17.0	797.3	738.0	59.36	13.432		
10,800.0	7,500.0	7,655.9	7,490.4	64.4	25.7	-90.44	2,899.6	-17.0	848.9	792.3	56.59	15.001		
10,900.0	7,500.0	7,658.0	7,492.5	66.1	25.7	-90.60	2,899.7	-17.0	907.3	853.1	54.18	16.745		
11,000.0	7,500.0	7,660.1	7,494.5	67.7	25.7	-90.76	2,899.7	-17.1	971.6	919.5	52.10	18.648		
11,100.0	7,500.0	7,662.1	7,496.6	69.4	25.7	-90.92	2,899.8	-17.1	1,041.6	991.3	50.35	20.688		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden 24-6 - DD - Plan #1											Offset Site Error:		0.0 ft
Survey Program: 0-MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
9,400.0	7,500.0	7,557.8	7,485.0	41.4	18.7	90.00	2,891.0	1,245.0	1,020.9	984.0	36.82	27.725	
9,500.0	7,500.0	7,557.8	7,485.0	43.1	18.7	90.00	2,891.0	1,245.0	939.7	900.5	39.20	23.974	
9,600.0	7,500.0	7,557.8	7,485.0	44.7	18.7	90.00	2,891.0	1,245.0	862.5	820.3	42.23	20.423	
9,700.0	7,500.0	7,557.8	7,485.0	46.3	18.7	90.00	2,891.0	1,245.0	790.5	744.5	45.99	17.188	
9,800.0	7,500.0	7,557.8	7,485.0	47.9	18.7	90.00	2,891.0	1,245.0	725.1	674.6	50.48	14.365	
9,900.0	7,500.0	7,557.8	7,485.0	49.6	18.7	90.00	2,891.0	1,245.0	668.4	612.8	55.59	12.023	
10,000.0	7,500.0	7,557.8	7,485.0	51.2	18.7	90.00	2,891.0	1,245.0	622.6	561.6	61.03	10.202	
10,100.0	7,500.0	7,557.8	7,485.0	52.9	18.7	90.00	2,891.0	1,245.0	590.6	524.3	66.27	8.911	
10,200.0	7,500.0	7,557.8	7,485.0	54.5	18.7	90.00	2,891.0	1,245.0	576.0	505.3	70.64	8.154	
10,227.5	7,500.0	7,557.8	7,485.0	55.0	18.7	90.00	2,891.0	1,245.0	575.3	503.7	71.59	8.036 CC, ES	
10,300.0	7,500.0	7,557.8	7,485.0	56.2	18.7	90.00	2,891.0	1,245.0	580.3	506.8	73.48	7.897 SF	
10,400.0	7,500.0	7,557.8	7,485.0	57.8	18.7	90.00	2,891.0	1,245.0	603.0	528.4	74.62	8.081	
10,500.0	7,500.0	7,557.8	7,485.0	59.5	18.7	90.00	2,891.0	1,245.0	642.3	568.0	74.34	8.641	
10,600.0	7,500.0	7,557.8	7,485.0	61.1	18.7	90.00	2,891.0	1,245.0	695.4	622.2	73.15	9.506	
10,700.0	7,500.0	7,557.8	7,485.0	62.8	18.7	90.00	2,891.0	1,245.0	759.2	687.7	71.54	10.613	
10,800.0	7,500.0	7,557.8	7,485.0	64.4	18.7	90.00	2,891.0	1,245.0	831.4	761.6	69.82	11.907	
10,900.0	7,500.0	7,557.8	7,485.0	66.1	18.7	90.00	2,891.0	1,245.0	910.0	841.8	68.19	13.345	
11,000.0	7,500.0	7,557.8	7,485.0	67.7	18.7	90.00	2,891.0	1,245.0	992.9	926.2	66.71	14.884	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SUR													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,500.0	7,464.4	7,461.9	54.5	13.3	88.44	3,773.4	915.7	954.0	923.5	30.54	31.238		
10,300.0	7,500.0	7,465.3	7,462.8	56.2	13.3	88.72	3,773.4	915.7	858.5	827.5	31.04	27.661		
10,400.0	7,500.0	7,466.2	7,463.8	57.8	13.3	88.96	3,773.4	915.7	764.8	732.7	32.03	23.874		
10,500.0	7,500.0	7,467.2	7,464.7	59.5	13.3	89.18	3,773.5	915.6	673.6	639.7	33.89	19.876		
10,600.0	7,500.0	7,468.1	7,465.6	61.1	13.3	89.38	3,773.5	915.6	586.2	549.1	37.11	15.795		
10,700.0	7,500.0	7,469.1	7,466.6	62.8	13.3	89.56	3,773.5	915.6	504.6	462.2	42.33	11.920		
10,800.0	7,500.0	7,470.0	7,467.5	64.4	13.3	89.74	3,773.5	915.6	432.0	381.9	50.13	8.619		
10,900.0	7,500.0	7,471.0	7,468.5	66.1	13.3	89.92	3,773.5	915.6	374.0	313.4	60.58	6.173		
11,000.0	7,500.0	7,472.0	7,469.5	67.7	13.3	90.09	3,773.5	915.6	337.2	265.2	72.06	4.680		
11,080.7	7,500.0	7,472.8	7,470.3	69.1	13.3	90.22	3,773.5	915.6	327.4	247.8	79.57	4.115 CC		
11,100.0	7,500.0	7,473.0	7,470.5	69.4	13.3	90.26	3,773.5	915.6	328.0	247.1	80.88	4.055 ES, SF		
11,200.0	7,500.0	7,473.9	7,471.5	71.1	13.3	90.43	3,773.5	915.6	348.5	264.4	84.11	4.143		
11,300.0	7,500.0	7,474.9	7,472.4	72.7	13.3	90.60	3,773.5	915.6	393.9	311.3	82.60	4.769		
11,400.0	7,500.0	7,475.9	7,473.4	74.4	13.3	90.76	3,773.5	915.6	456.1	377.1	78.94	5.777		
11,500.0	7,500.0	7,476.9	7,474.4	76.1	13.3	90.91	3,773.5	915.6	528.8	453.9	74.85	7.065		
11,600.0	7,500.0	7,477.9	7,475.4	77.8	13.3	91.05	3,773.6	915.6	608.3	537.3	71.03	8.565		
11,700.0	7,500.0	7,478.8	7,476.3	79.5	13.3	91.18	3,773.6	915.6	692.3	624.6	67.67	10.231		
11,800.0	7,500.0	7,479.8	7,477.3	81.2	13.3	91.29	3,773.6	915.6	779.3	714.5	64.78	12.031		
11,900.0	7,500.0	7,480.8	7,478.3	82.9	13.3	91.39	3,773.6	915.6	868.3	806.0	62.28	13.942		
12,000.0	7,500.0	7,481.7	7,479.2	84.7	13.3	91.48	3,773.6	915.6	958.8	898.7	60.12	15.949		
12,100.0	7,500.0	7,482.6	7,480.2	86.4	13.3	91.55	3,773.6	915.6	1,050.4	992.2	58.23	18.039		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - S													Offset Site Error: 0.0 ft
Survey Program: 765-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,800.0	7,500.0	7,583.9	7,465.8	64.4	24.1	-87.85	4,225.7	18.4	987.7	922.8	64.99	15.198	
10,900.0	7,500.0	7,586.7	7,468.6	66.1	24.1	-88.12	4,225.8	18.5	903.3	835.8	67.54	13.374	
11,000.0	7,500.0	7,589.5	7,471.4	67.7	24.1	-88.43	4,225.8	18.5	821.8	751.3	70.46	11.663	
11,100.0	7,500.0	7,592.3	7,474.2	69.4	24.1	-88.76	4,225.9	18.5	744.7	670.9	73.84	10.085	
11,200.0	7,500.0	7,595.2	7,477.1	71.1	24.1	-89.09	4,226.0	18.5	673.7	596.0	77.73	8.668	
11,300.0	7,500.0	7,598.0	7,480.0	72.7	24.1	-89.42	4,226.1	18.5	611.0	528.9	82.09	7.443	
11,400.0	7,500.0	7,600.9	7,482.9	74.4	24.1	-89.76	4,226.2	18.5	560.5	473.7	86.74	6.462	
11,500.0	7,500.0	7,603.9	7,485.8	76.1	24.1	-90.09	4,226.2	18.5	526.1	435.1	91.00	5.781	
11,600.0	7,500.0	7,606.9	7,488.8	77.8	24.1	-90.43	4,226.3	18.6	511.0	417.2	93.74	5.451	
11,621.9	7,500.0	7,607.5	7,489.5	78.2	24.1	-90.50	4,226.3	18.6	510.5	416.4	94.03	5.429 CC, ES, SF	
11,700.0	7,500.0	7,609.9	7,491.8	79.5	24.1	-90.77	4,226.4	18.6	516.9	422.9	94.02	5.498	
11,800.0	7,500.0	7,613.0	7,494.9	81.2	24.2	-91.12	4,226.5	18.6	543.2	451.5	91.76	5.920	
11,900.0	7,500.0	7,616.1	7,498.0	82.9	24.2	-91.48	4,226.6	18.6	587.1	499.4	87.79	6.688	
12,000.0	7,500.0	7,619.3	7,501.2	84.7	24.2	-91.87	4,226.7	18.6	645.1	561.9	83.14	7.759	
12,100.0	7,500.0	7,622.5	7,504.5	86.4	24.2	-92.28	4,226.8	18.7	713.6	635.0	78.55	9.084	
12,200.0	7,500.0	7,625.8	7,507.7	88.1	24.2	-92.70	4,226.9	18.7	789.9	715.5	74.43	10.613	
12,300.0	7,500.0	7,629.2	7,511.1	89.8	24.2	-93.10	4,227.0	18.7	871.2	800.4	70.83	12.301	
12,400.0	7,500.0	7,631.0	7,512.9	91.6	24.2	-93.32	4,227.0	18.7	956.1	888.4	67.72	14.118	
12,500.0	7,500.0	7,631.0	7,512.9	93.3	24.2	-93.32	4,227.0	18.7	1,043.7	978.6	65.07	16.039	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - S														Offset Site Error:	0.0 ft
Survey Program: 797-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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		
9,500.0	7,500.0	7,628.7	7,463.2	43.1	25.6	-88.19	2,899.1	-16.7	1,012.0	948.5	63.51	15.935			
9,600.0	7,500.0	7,630.8	7,465.3	44.7	25.6	-88.36	2,899.1	-16.8	941.3	875.5	65.79	14.307			
9,700.0	7,500.0	7,633.0	7,467.4	46.3	25.6	-88.54	2,899.1	-16.8	876.3	808.2	68.10	12.868			
9,800.0	7,500.0	7,635.1	7,469.5	47.9	25.6	-88.72	2,899.2	-16.8	818.5	748.2	70.31	11.641			
9,900.0	7,500.0	7,637.2	7,471.6	49.6	25.6	-88.89	2,899.2	-16.8	769.3	697.1	72.19	10.656			
10,000.0	7,500.0	7,639.3	7,473.7	51.2	25.6	-89.06	2,899.3	-16.8	730.5	657.0	73.49	9.940			
10,100.0	7,500.0	7,641.4	7,475.8	52.9	25.6	-89.23	2,899.3	-16.9	703.7	629.8	73.92	9.521			
10,200.0	7,500.0	7,643.4	7,477.9	54.5	25.7	-89.41	2,899.4	-16.9	689.0	615.7	73.27	9.403 SF			
10,266.8	7,500.0	7,644.8	7,479.3	55.6	25.7	-89.52	2,899.4	-16.9	686.1	613.9	72.23	9.500 CC, ES			
10,300.0	7,500.0	7,645.5	7,480.0	56.2	25.7	-89.58	2,899.4	-16.9	686.8	615.3	71.54	9.601			
10,400.0	7,500.0	7,647.6	7,482.1	57.8	25.7	-89.75	2,899.4	-16.9	697.4	628.5	68.91	10.121			
10,500.0	7,500.0	7,649.7	7,484.1	59.5	25.7	-89.93	2,899.5	-16.9	720.1	654.4	65.75	10.953			
10,600.0	7,500.0	7,651.8	7,486.2	61.1	25.7	-90.10	2,899.5	-17.0	753.9	691.4	62.46	12.070			
10,700.0	7,500.0	7,653.9	7,488.3	62.8	25.7	-90.27	2,899.6	-17.0	797.3	738.0	59.36	13.433			
10,800.0	7,500.0	7,655.9	7,490.4	64.4	25.7	-90.44	2,899.6	-17.0	848.9	792.3	56.59	15.002			
10,900.0	7,500.0	7,658.0	7,492.5	66.1	25.7	-90.60	2,899.6	-17.0	907.3	853.1	54.18	16.746			
11,000.0	7,500.0	7,660.1	7,494.5	67.7	25.7	-90.76	2,899.7	-17.0	971.6	919.5	52.10	18.649			
11,100.0	7,500.0	7,662.1	7,496.6	69.4	25.7	-90.92	2,899.7	-17.0	1,041.7	991.3	50.35	20.690			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - G													Offset Site Error: 0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
11,000.0	7,500.0	7,429.1	7,427.0	67.7	13.2	87.45	4,355.3	1,295.9	991.0	935.9	55.05	18.002	
11,100.0	7,500.0	7,432.8	7,430.8	69.4	13.2	87.72	4,355.4	1,295.9	933.4	873.0	60.42	15.447	
11,200.0	7,500.0	7,436.6	7,434.6	71.1	13.2	88.00	4,355.6	1,295.9	883.4	817.2	66.22	13.341	
11,300.0	7,500.0	7,440.6	7,438.5	72.7	13.2	88.28	4,355.8	1,296.0	842.2	770.0	72.23	11.661	
11,400.0	7,500.0	7,444.6	7,442.6	74.4	13.3	88.57	4,356.0	1,296.0	809.9	731.8	78.12	10.367	
11,500.0	7,500.0	7,448.8	7,446.8	76.1	13.3	88.87	4,356.2	1,296.0	787.3	703.7	83.59	9.418	
11,600.0	7,500.0	7,453.2	7,451.1	77.8	13.3	89.19	4,356.4	1,296.1	775.2	686.9	88.28	8.781	
11,659.4	7,500.0	7,455.8	7,453.7	78.8	13.3	89.39	4,356.5	1,296.1	773.2	682.6	90.57	8.537 CC	
11,700.0	7,500.0	7,457.6	7,455.6	79.5	13.3	89.52	4,356.6	1,296.1	774.1	682.2	91.90	8.424 ES	
11,800.0	7,500.0	7,462.3	7,460.2	81.2	13.3	89.87	4,356.8	1,296.1	784.2	689.9	94.29	8.317 SF	
11,900.0	7,500.0	7,467.0	7,465.0	82.9	13.3	90.22	4,357.0	1,296.2	804.9	709.4	95.42	8.435	
12,000.0	7,500.0	7,472.0	7,469.9	84.7	13.3	90.58	4,357.2	1,296.2	835.4	740.0	95.43	8.755	
12,100.0	7,500.0	7,477.1	7,475.0	86.4	13.3	90.95	4,357.5	1,296.2	874.8	780.3	94.51	9.256	
12,200.0	7,500.0	7,482.4	7,480.3	88.1	13.3	91.32	4,357.8	1,296.3	921.9	829.0	92.92	9.921	
12,300.0	7,500.0	7,487.8	7,485.7	89.8	13.3	91.71	4,358.0	1,296.3	976.6	885.7	90.89	10.745	
12,400.0	7,500.0	7,493.5	7,491.3	91.6	13.3	92.12	4,358.3	1,296.4	1,038.1	949.5	88.63	11.712	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - P													Offset Site Error: 0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
11,200.0	7,500.0	7,610.5	7,484.0	71.1	25.4	90.00	4,835.9	626.6	991.2	956.1	35.07	28.262	
11,300.0	7,500.0	7,610.5	7,484.0	72.7	25.4	90.00	4,835.9	626.6	893.2	858.3	34.91	25.583	
11,400.0	7,500.0	7,610.5	7,484.0	74.4	25.4	90.00	4,835.9	626.6	795.4	760.4	34.92	22.774	
11,500.0	7,500.0	7,610.5	7,484.0	76.1	25.4	90.00	4,835.9	626.6	697.7	662.5	35.22	19.813	
11,600.0	7,500.0	7,610.5	7,484.0	77.8	25.4	90.00	4,835.9	626.6	600.4	564.4	35.99	16.682	
11,700.0	7,500.0	7,610.5	7,484.0	79.5	25.4	90.00	4,835.9	626.6	503.7	466.1	37.64	13.382	
11,800.0	7,500.0	7,610.5	7,484.0	81.2	25.4	90.00	4,835.9	626.6	408.0	367.0	40.92	9.969	
11,900.0	7,500.0	7,610.5	7,484.0	82.9	25.4	90.00	4,835.9	626.6	314.2	266.8	47.40	6.628	
12,000.0	7,500.0	7,610.5	7,484.0	84.7	25.4	90.00	4,835.9	626.6	224.9	164.3	60.53	3.715	
12,100.0	7,500.0	7,610.5	7,484.0	86.4	25.4	90.00	4,835.9	626.6	148.3	61.5	86.86	1.708	
12,195.0	7,500.0	7,610.5	7,484.0	88.0	25.4	90.00	4,835.9	626.6	114.3	2.3	112.08	1.020 Level 2	
12,200.0	7,500.0	7,610.5	7,484.0	88.1	25.4	90.00	4,835.9	626.6	114.3	2.1	112.13	1.019 Level 2, CC, ES, SF	
12,300.0	7,500.0	7,610.5	7,484.0	89.8	25.4	90.00	4,835.9	626.6	154.9	66.0	88.90	1.743	
12,400.0	7,500.0	7,610.5	7,484.0	91.6	25.4	90.00	4,835.9	626.6	234.4	166.9	67.50	3.473	
12,500.0	7,500.0	7,610.5	7,484.0	93.3	25.4	90.00	4,835.9	626.6	325.4	268.4	57.02	5.708	
12,600.0	7,500.0	7,610.5	7,484.0	95.0	25.4	90.00	4,835.9	626.6	420.6	369.1	51.48	8.169	
12,700.0	7,500.0	7,610.5	7,484.0	96.8	25.4	90.00	4,835.9	626.6	517.5	469.3	48.23	10.729	
12,800.0	7,500.0	7,610.5	7,484.0	98.5	25.4	90.00	4,835.9	626.6	615.4	569.3	46.17	13.330	
12,900.0	7,500.0	7,610.5	7,484.0	100.2	25.4	90.00	4,835.9	626.6	713.9	669.2	44.78	15.942	
13,000.0	7,500.0	7,610.5	7,484.0	102.0	25.4	90.00	4,835.9	626.6	812.8	769.0	43.81	18.552	
13,100.0	7,500.0	7,610.5	7,484.0	103.7	25.4	90.00	4,835.9	626.6	911.9	868.8	43.11	21.152	
13,200.0	7,500.0	7,610.5	7,484.0	105.4	25.4	90.00	4,835.9	626.6	1,011.2	968.6	42.60	23.739	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - S													Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,600.0	7,500.0	7,674.1	7,481.8	29.2	27.7	-88.44	2,277.5	584.2	1,028.4	992.9	35.49	28.980		
8,700.0	7,500.0	7,674.2	7,481.9	30.7	27.7	-88.52	2,277.5	584.2	928.8	892.8	35.94	25.845		
8,800.0	7,500.0	7,674.4	7,482.0	32.1	27.7	-88.59	2,277.5	584.2	829.2	792.7	36.47	22.739		
8,900.0	7,500.0	7,674.5	7,482.1	33.6	27.7	-88.67	2,277.5	584.2	729.8	692.7	37.11	19.663		
9,000.0	7,500.0	7,674.6	7,482.2	35.2	27.7	-88.75	2,277.5	584.2	630.5	592.6	37.94	16.620		
9,100.0	7,500.0	7,674.7	7,482.3	36.7	27.7	-88.83	2,277.5	584.2	531.5	492.5	39.04	13.616		
9,200.0	7,500.0	7,674.8	7,482.4	38.3	27.7	-88.91	2,277.5	584.2	433.0	392.4	40.62	10.661		
9,300.0	7,500.0	7,674.9	7,482.6	39.9	27.7	-88.99	2,277.5	584.2	335.4	292.2	43.11	7.780		
9,400.0	7,500.0	7,675.0	7,482.7	41.4	27.7	-89.07	2,277.5	584.2	239.7	192.1	47.58	5.036		
9,500.0	7,500.0	7,675.2	7,482.8	43.1	27.7	-89.15	2,277.5	584.2	149.7	92.6	57.11	2.621		
9,600.0	7,500.0	7,675.3	7,482.9	44.7	27.7	-89.24	2,277.5	584.2	85.9	13.6	72.33	1.188 Level 2		
9,625.1	7,500.0	7,675.3	7,482.9	45.1	27.7	-89.26	2,277.5	584.2	82.2	11.6	70.53	1.165 Level 2, CC, ES, SF		
9,700.0	7,500.0	7,675.4	7,483.0	46.3	27.7	-89.32	2,277.5	584.2	111.2	64.1	47.05	2.363		
9,800.0	7,500.0	7,675.5	7,483.1	47.9	27.7	-89.40	2,277.5	584.2	193.2	160.7	32.52	5.941		
9,900.0	7,500.0	7,675.6	7,483.3	49.6	27.7	-89.49	2,277.5	584.2	286.9	256.6	30.28	9.475		
10,000.0	7,500.0	7,675.8	7,483.4	51.2	27.7	-89.58	2,277.5	584.2	383.8	353.4	30.38	12.631		
10,100.0	7,500.0	7,675.9	7,483.5	52.9	27.7	-89.68	2,277.5	584.2	481.9	451.0	30.89	15.599		
10,200.0	7,500.0	7,676.0	7,483.7	54.5	27.7	-89.80	2,277.5	584.2	580.4	549.0	31.46	18.448		
10,300.0	7,500.0	7,676.2	7,483.8	56.2	27.7	-89.92	2,277.5	584.2	679.1	647.1	32.03	21.203		
10,400.0	7,500.0	7,676.4	7,484.0	57.8	27.7	-90.02	2,277.5	584.2	777.9	745.4	32.58	23.878		
10,500.0	7,500.0	7,676.6	7,484.3	59.5	27.7	-90.12	2,277.5	584.2	876.8	843.7	33.11	26.479		
10,600.0	7,500.0	7,676.9	7,484.5	61.1	27.7	-90.20	2,277.5	584.2	975.6	942.0	33.63	29.012		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SUR													Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
12,700.0	7,500.0	7,453.0	7,453.0	96.8	13.0	90.00	6,293.6	716.3	970.4	934.4	35.97	26.980		
12,800.0	7,500.0	7,453.0	7,453.0	98.5	13.0	90.00	6,293.6	716.3	872.2	835.1	37.15	23.480		
12,900.0	7,500.0	7,453.0	7,453.0	100.2	13.0	90.00	6,293.6	716.3	774.5	735.7	38.81	19.958		
13,000.0	7,500.0	7,453.0	7,453.0	102.0	13.0	90.00	6,293.6	716.3	677.5	636.3	41.20	16.446		
13,100.0	7,500.0	7,453.0	7,453.0	103.7	13.0	90.00	6,293.6	716.3	581.5	536.8	44.71	13.006		
13,200.0	7,500.0	7,453.0	7,453.0	105.4	13.0	90.00	6,293.6	716.3	487.0	437.0	50.01	9.739		
13,300.0	7,500.0	7,453.0	7,453.0	107.2	13.0	90.00	6,293.6	716.3	395.4	337.1	58.27	6.786		
13,400.0	7,500.0	7,453.0	7,453.0	108.9	13.0	90.00	6,293.6	716.3	308.9	237.4	71.48	4.321		
13,500.0	7,500.0	7,453.0	7,453.0	110.7	13.0	90.00	6,293.6	716.3	233.5	141.1	92.37	2.528		
13,600.0	7,500.0	7,453.0	7,453.0	112.4	13.0	90.00	6,293.6	716.3	183.4	65.2	118.16	1.552		
13,654.5	7,500.0	7,453.0	7,453.0	113.3	13.0	90.00	6,293.6	716.3	175.1	49.0	126.12	1.388	Level 3, CC, ES, SF	
13,700.0	7,500.0	7,453.0	7,453.0	114.1	13.0	90.00	6,293.6	716.3	180.9	55.7	125.20	1.445	Level 3	
13,800.0	7,500.0	7,453.0	7,453.0	115.9	13.0	90.00	6,293.6	716.3	227.7	120.0	107.64	2.115		
13,900.0	7,500.0	7,453.0	7,453.0	117.6	13.0	90.00	6,293.6	716.3	301.6	212.3	89.26	3.378		
14,000.0	7,500.0	7,453.0	7,453.0	119.4	13.0	90.00	6,293.6	716.3	387.4	310.8	76.57	5.059		
14,100.0	7,500.0	7,453.0	7,453.0	121.1	13.0	90.00	6,293.6	716.3	478.7	410.6	68.14	7.025		
14,200.0	7,500.0	7,453.0	7,453.0	122.8	13.0	90.00	6,293.6	716.3	572.9	510.5	62.39	9.183		
14,300.0	7,500.0	7,453.0	7,453.0	124.6	13.0	90.00	6,293.6	716.3	668.8	610.5	58.31	11.471		
14,400.0	7,500.0	7,453.0	7,453.0	126.3	13.0	90.00	6,293.6	716.3	765.8	710.5	55.32	13.844		
14,458.1	7,500.0	7,453.0	7,453.0	127.3	13.0	90.00	6,293.6	716.3	822.4	768.5	53.94	15.249		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO													Offset Site Error: 0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	84.7	13.0	-90.00	5,530.8	87.0	984.0	923.3	60.72	16.207	
12,100.0	7,500.0	7,457.0	7,457.0	86.4	13.0	-90.00	5,530.8	87.0	894.8	830.2	64.57	13.857	
12,200.0	7,500.0	7,457.0	7,457.0	88.1	13.0	-90.00	5,530.8	87.0	808.9	739.6	69.30	11.673	
12,300.0	7,500.0	7,457.0	7,457.0	89.8	13.0	-90.00	5,530.8	87.0	727.0	652.0	74.96	9.698	
12,400.0	7,500.0	7,457.0	7,457.0	91.6	13.0	-90.00	5,530.8	87.0	650.1	568.4	81.63	7.964	
12,500.0	7,500.0	7,457.0	7,457.0	93.3	13.0	-90.00	5,530.8	87.0	580.3	491.0	89.28	6.499	
12,600.0	7,500.0	7,457.0	7,457.0	95.0	13.0	-90.00	5,530.8	87.0	520.4	422.9	97.54	5.335	
12,700.0	7,500.0	7,457.0	7,457.0	96.8	13.0	-90.00	5,530.8	87.0	474.3	368.9	105.39	4.500	
12,800.0	7,500.0	7,457.0	7,457.0	98.5	13.0	-90.00	5,530.8	87.0	446.2	335.1	111.03	4.018	
12,879.4	7,500.0	7,457.0	7,457.0	99.9	13.0	-90.00	5,530.8	87.0	439.0	326.4	112.63	3.898 CC, ES, SF	
12,900.0	7,500.0	7,457.0	7,457.0	100.2	13.0	-90.00	5,530.8	87.0	439.5	327.0	112.54	3.905	
13,000.0	7,500.0	7,457.0	7,457.0	102.0	13.0	-90.00	5,530.8	87.0	455.3	345.9	109.35	4.164	
13,100.0	7,500.0	7,457.0	7,457.0	103.7	13.0	-90.00	5,530.8	87.0	491.3	388.6	102.73	4.783	
13,200.0	7,500.0	7,457.0	7,457.0	105.4	13.0	-90.00	5,530.8	87.0	543.6	448.9	94.71	5.740	
13,300.0	7,500.0	7,457.0	7,457.0	107.2	13.0	-90.00	5,530.8	87.0	608.0	521.2	86.78	7.006	
13,400.0	7,500.0	7,457.0	7,457.0	108.9	13.0	-90.00	5,530.8	87.0	681.0	601.3	79.67	8.548	
13,500.0	7,500.0	7,457.0	7,457.0	110.7	13.0	-90.00	5,530.8	87.0	760.2	686.6	73.59	10.330	
13,600.0	7,500.0	7,457.0	7,457.0	112.4	13.0	-90.00	5,530.8	87.0	843.8	775.3	68.49	12.320	
13,700.0	7,500.0	7,457.0	7,457.0	114.1	13.0	-90.00	5,530.8	87.0	930.6	866.4	64.25	14.485	
13,800.0	7,500.0	7,457.0	7,457.0	115.9	13.0	-90.00	5,530.8	87.0	1,019.9	959.2	60.72	16.797	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - N													Offset Site Error:	0.0 ft
Survey Program: 7771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,300.0	7,500.0	7,448.0	7,448.0	107.2	13.0	-90.00	6,883.4	86.5	1,041.9	971.2	70.64	14.749		
13,400.0	7,500.0	7,448.0	7,448.0	108.9	13.0	-90.00	6,883.4	86.5	953.5	878.1	75.39	12.648		
13,500.0	7,500.0	7,448.0	7,448.0	110.7	13.0	-90.00	6,883.4	86.5	867.6	786.7	80.97	10.715		
13,600.0	7,500.0	7,448.0	7,448.0	112.4	13.0	-90.00	6,883.4	86.5	785.1	697.6	87.55	8.968		
13,700.0	7,500.0	7,448.0	7,448.0	114.1	13.0	-90.00	6,883.4	86.5	707.2	612.0	95.23	7.426		
13,800.0	7,500.0	7,448.0	7,448.0	115.9	13.0	-90.00	6,883.4	86.5	635.4	531.4	104.03	6.108		
13,900.0	7,500.0	7,448.0	7,448.0	117.6	13.0	-90.00	6,883.4	86.5	572.2	458.5	113.68	5.034		
14,000.0	7,500.0	7,448.0	7,448.0	119.4	13.0	-90.00	6,883.4	86.5	520.7	397.3	123.36	4.221		
14,100.0	7,500.0	7,448.0	7,448.0	121.1	13.0	-90.00	6,883.4	86.5	484.5	353.1	131.45	3.686		
14,200.0	7,500.0	7,448.0	7,448.0	122.8	13.0	-90.00	6,883.4	86.5	467.3	331.5	135.84	3.440		
14,231.7	7,500.0	7,448.0	7,448.0	123.4	13.0	-90.00	6,883.4	86.5	466.3	330.1	136.17	3.424	CC, ES, SF	
14,300.0	7,500.0	7,448.0	7,448.0	124.6	13.0	-90.00	6,883.4	86.5	471.2	336.2	135.05	3.489		
14,400.0	7,500.0	7,448.0	7,448.0	126.3	13.0	-90.00	6,883.4	86.5	495.7	366.3	129.43	3.830		
14,458.1	7,500.0	7,448.0	7,448.0	127.3	13.0	-90.00	6,883.4	86.5	518.3	393.6	124.66	4.158		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SUR													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	
12,400.0	7,500.0	7,454.0	7,454.0	91.6	13.0	90.00	5,577.1	1,408.3	1,039.6	952.2	87.36	11.901	
12,500.0	7,500.0	7,454.0	7,454.0	93.3	13.0	90.00	5,577.1	1,408.3	990.2	897.1	93.06	10.641	
12,600.0	7,500.0	7,454.0	7,454.0	95.0	13.0	90.00	5,577.1	1,408.3	948.7	850.0	98.69	9.613	
12,700.0	7,500.0	7,454.0	7,454.0	96.8	13.0	90.00	5,577.1	1,408.3	916.4	812.4	103.99	8.812	
12,800.0	7,500.0	7,454.0	7,454.0	98.5	13.0	90.00	5,577.1	1,408.3	894.1	785.4	108.66	8.228	
12,900.0	7,500.0	7,454.0	7,454.0	100.2	13.0	90.00	5,577.1	1,408.3	882.6	770.2	112.39	7.853	
12,951.8	7,500.0	7,454.0	7,454.0	101.1	13.0	90.00	5,577.1	1,408.3	881.1	767.2	113.88	7.737 CC, ES	
13,000.0	7,500.0	7,454.0	7,454.0	102.0	13.0	90.00	5,577.1	1,408.3	882.4	767.5	114.97	7.675 SF	
13,100.0	7,500.0	7,454.0	7,454.0	103.7	13.0	90.00	5,577.1	1,408.3	893.5	777.2	116.28	7.684	
13,200.0	7,500.0	7,454.0	7,454.0	105.4	13.0	90.00	5,577.1	1,408.3	915.4	799.0	116.38	7.866	
13,300.0	7,500.0	7,454.0	7,454.0	107.2	13.0	90.00	5,577.1	1,408.3	947.4	832.0	115.41	8.209	
13,400.0	7,500.0	7,454.0	7,454.0	108.9	13.0	90.00	5,577.1	1,408.3	988.6	874.9	113.62	8.700	
13,500.0	7,500.0	7,454.0	7,454.0	110.7	13.0	90.00	5,577.1	1,408.3	1,037.7	926.5	111.25	9.328	
13,600.0	7,500.0	7,454.0	7,454.0	112.4	13.0	90.00	5,577.1	1,408.3	1,093.9	985.3	108.52	10.080	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 7894-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-175.00	-982.8	-85.9	986.6					
100.0	100.0	88.0	88.0	0.2	0.2	-175.00	-982.8	-85.9	986.6	986.2	0.31	3,227.923		
200.0	200.0	188.0	188.0	0.3	0.3	-175.00	-982.8	-85.9	986.6	985.9	0.65	1,506.890		
300.0	300.0	288.0	288.0	0.5	0.5	-175.00	-982.8	-85.9	986.6	985.5	1.00	982.859		
400.0	400.0	388.0	388.0	0.7	0.7	-175.00	-982.8	-85.9	986.6	985.2	1.35	729.256		
500.0	500.0	488.0	488.0	0.8	0.9	-175.00	-982.8	-85.9	986.6	984.9	1.70	579.682		
600.0	600.0	588.0	588.0	1.0	1.0	88.90	-982.8	-85.9	986.5	984.5	2.05	480.910		
700.0	700.0	688.0	688.0	1.2	1.2	89.05	-982.8	-85.9	986.5	984.1	2.40	410.452		
800.0	799.9	787.9	787.9	1.4	1.4	89.31	-982.8	-85.9	986.4	983.7	2.76	357.277		
900.0	899.7	887.7	887.7	1.6	1.5	89.66	-982.8	-85.9	986.4	983.2	3.13	315.406		
976.2	975.6	963.6	963.6	1.7	1.7	90.00	-982.8	-85.9	986.4	982.9	3.42	288.771 CC		
1,000.0	999.4	987.4	987.4	1.8	1.7	90.12	-982.8	-85.9	986.4	982.8	3.51	281.349		
1,100.0	1,098.9	1,086.9	1,086.9	2.0	1.9	90.66	-982.8	-85.9	986.4	982.5	3.89	253.275		
1,200.0	1,198.5	1,186.5	1,186.5	2.2	2.1	91.21	-982.8	-85.9	986.6	982.3	4.29	230.027		
1,300.0	1,298.0	1,286.0	1,286.0	2.4	2.2	91.76	-982.8	-85.9	986.8	982.1	4.69	210.534		
1,400.0	1,397.6	1,385.6	1,385.6	2.7	2.4	92.31	-982.8	-85.9	987.2	982.1	5.09	194.002 ES		
1,500.0	1,497.1	1,485.1	1,485.1	2.9	2.6	92.87	-982.8	-85.9	987.6	982.1	5.49	179.832		
1,600.0	1,596.6	1,584.6	1,584.6	3.1	2.8	93.42	-982.8	-85.9	988.1	982.2	5.90	167.570		
1,700.0	1,696.2	1,684.2	1,684.2	3.4	2.9	93.97	-982.8	-85.9	988.7	982.4	6.30	156.867		
1,800.0	1,795.7	1,783.7	1,783.7	3.6	3.1	94.52	-982.8	-85.9	989.5	982.7	6.71	147.454		
1,900.0	1,895.3	1,883.3	1,883.3	3.8	3.3	95.06	-982.8	-85.9	990.3	983.1	7.12	139.118		
2,000.0	1,994.8	1,982.8	1,982.8	4.1	3.5	95.61	-982.8	-85.9	991.1	983.6	7.53	131.688		
2,100.0	2,094.4	2,082.4	2,082.4	4.3	3.6	96.16	-982.8	-85.9	992.1	984.2	7.94	125.030		
2,200.0	2,193.9	2,181.9	2,181.9	4.5	3.8	96.70	-982.8	-85.9	993.2	984.9	8.34	119.032		
2,300.0	2,293.4	2,281.4	2,281.4	4.8	4.0	97.25	-982.8	-85.9	994.4	985.6	8.75	113.603		
2,400.0	2,393.0	2,381.0	2,381.0	5.0	4.2	97.79	-982.8	-85.9	995.6	986.5	9.16	108.669		
2,500.0	2,492.5	2,480.5	2,480.5	5.3	4.3	98.33	-982.8	-85.9	997.0	987.4	9.57	104.167		
2,600.0	2,592.1	2,580.1	2,580.1	5.5	4.5	98.87	-982.8	-85.9	998.4	988.4	9.98	100.044		
2,700.0	2,691.6	2,679.6	2,679.6	5.7	4.7	99.41	-982.8	-85.9	999.9	989.5	10.39	96.256		
2,800.0	2,791.2	2,779.2	2,779.2	6.0	4.9	99.95	-982.8	-85.9	1,001.5	990.8	10.80	92.766		
2,900.0	2,890.7	2,878.7	2,878.7	6.2	5.0	100.48	-982.8	-85.9	1,003.2	992.0	11.20	89.540		
3,000.0	2,990.2	2,978.2	2,978.2	6.5	5.2	101.02	-982.8	-85.9	1,005.0	993.4	11.61	86.552		
3,100.0	3,089.8	3,077.8	3,077.8	6.7	5.4	101.55	-982.8	-85.9	1,006.9	994.9	12.02	83.776		
3,200.0	3,189.3	3,177.3	3,177.3	6.9	5.5	102.08	-982.8	-85.9	1,008.9	996.5	12.43	81.192		
3,300.0	3,288.9	3,276.9	3,276.9	7.2	5.7	102.60	-982.8	-85.9	1,010.9	998.1	12.83	78.782		
3,400.0	3,388.4	3,376.4	3,376.4	7.4	5.9	103.13	-982.8	-85.9	1,013.1	999.8	13.24	76.529 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - S				Offset Site Error:		0.0 ft	
Survey Program:										132-Geolink MWD				Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis				Distance						Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
8,300.0	7,500.0	7,694.2	7,534.0	25.1	26.1	-88.60	1,644.0	-78.1	1,006.7	961.7	44.95	22.398					
8,400.0	7,500.0	7,697.2	7,537.0	26.4	26.1	-88.84	1,644.0	-78.1	941.5	896.2	45.36	20.758					
8,500.0	7,500.0	7,700.2	7,540.0	27.8	26.1	-89.07	1,644.1	-78.1	882.9	837.2	45.69	19.323					
8,600.0	7,500.0	7,703.2	7,543.0	29.2	26.1	-89.30	1,644.2	-78.1	832.2	786.3	45.92	18.122					
8,700.0	7,500.0	7,706.3	7,546.0	30.7	26.1	-89.54	1,644.3	-78.1	790.9	744.9	46.04	17.178					
8,800.0	7,500.0	7,709.3	7,549.1	32.1	26.1	-89.77	1,644.4	-78.0	760.6	714.5	46.10	16.498					
8,900.0	7,500.0	7,712.3	7,552.1	33.6	26.1	-90.01	1,644.5	-78.0	742.6	696.4	46.22	16.069					
8,985.3	7,500.0	7,714.9	7,554.7	34.9	26.1	-90.21	1,644.6	-78.0	737.7	691.3	46.45	15.883	CC, ES				
9,000.0	7,500.0	7,715.4	7,555.2	35.2	26.1	-90.25	1,644.6	-78.0	737.9	691.4	46.50	15.867	SF				
9,100.0	7,500.0	7,718.5	7,558.2	36.7	26.1	-90.48	1,644.7	-78.0	746.6	699.6	46.99	15.890					
9,200.0	7,500.0	7,721.5	7,561.3	38.3	26.1	-90.72	1,644.8	-78.0	768.3	720.8	47.55	16.159					
9,300.0	7,500.0	7,724.6	7,564.4	39.9	26.1	-90.96	1,644.9	-78.0	802.0	754.0	48.04	16.694					
9,400.0	7,500.0	7,727.7	7,567.5	41.4	26.1	-91.20	1,645.0	-78.0	846.2	797.8	48.37	17.493					
9,500.0	7,500.0	7,730.8	7,570.6	43.1	26.1	-91.45	1,645.1	-78.0	899.4	850.9	48.53	18.533					
9,600.0	7,500.0	7,734.0	7,573.7	44.7	26.1	-91.69	1,645.2	-77.9	960.1	911.6	48.54	19.779					
9,700.0	7,500.0	7,737.1	7,576.9	46.3	26.1	-91.93	1,645.3	-77.9	1,026.9	978.5	48.45	21.196					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	88.0	88.0	0.0	0.2	-36.84	131.5	-98.5	164.3					
100.0	100.0	188.0	188.0	0.2	0.3	-36.84	131.5	-98.5	164.3	163.8	0.48	342.226		
200.0	200.0	288.0	288.0	0.3	0.5	-36.84	131.5	-98.5	164.3	163.5	0.83	198.166		
300.0	300.0	388.0	388.0	0.5	0.7	-36.84	131.5	-98.5	164.3	163.1	1.18	139.460		
400.0	400.0	488.0	488.0	0.7	0.9	-36.84	131.5	-98.5	164.3	162.8	1.53	107.587		
500.0	500.0	588.0	588.0	0.8	1.0	-36.84	131.5	-98.5	164.3	162.4	1.88	87.573	CC, ES	
600.0	600.0	688.0	688.0	1.0	1.2	-133.20	131.5	-98.5	164.9	162.7	2.23	74.098		
700.0	700.0	788.0	788.0	1.2	1.4	-133.84	131.5	-98.5	166.7	164.1	2.58	64.714		
800.0	799.9	887.9	887.9	1.4	1.5	-134.88	131.5	-98.5	169.8	166.8	2.93	57.954		
900.0	899.7	987.7	987.7	1.6	1.7	-136.27	131.5	-98.5	174.1	170.9	3.29	52.989		
1,000.0	999.4	1,087.4	1,087.4	1.8	1.9	-137.96	131.5	-98.5	179.9	176.2	3.65	49.320		
1,100.0	1,098.9	1,186.9	1,186.9	2.0	2.1	-139.85	131.5	-98.5	187.0	182.9	4.01	46.612		
1,200.0	1,198.5	1,286.5	1,286.5	2.2	2.2	-141.67	131.5	-98.5	194.4	190.0	4.37	44.437		
1,300.0	1,298.0	1,386.0	1,386.0	2.4	2.4	-143.35	131.5	-98.5	202.0	197.2	4.74	42.639		
1,400.0	1,397.6	1,485.6	1,485.6	2.7	2.6	-144.90	131.5	-98.5	209.7	204.6	5.10	41.138		
1,500.0	1,497.1	1,585.1	1,585.1	2.9	2.8	-146.35	131.5	-98.5	217.6	212.2	5.46	39.871		
1,600.0	1,596.6	1,684.6	1,684.6	3.1	2.9	-147.69	131.5	-98.5	225.6	219.8	5.82	38.791		
1,700.0	1,696.2	1,784.2	1,784.2	3.4	3.1	-148.94	131.5	-98.5	233.8	227.6	6.17	37.863		
1,800.0	1,795.7	1,883.7	1,883.7	3.6	3.3	-150.10	131.5	-98.5	242.0	235.5	6.53	37.060		
1,900.0	1,895.3	1,983.3	1,983.3	3.8	3.5	-151.19	131.5	-98.5	250.4	243.5	6.89	36.358		
2,000.0	1,994.8	2,082.8	2,082.8	4.1	3.6	-152.21	131.5	-98.5	258.8	251.5	7.24	35.743		
2,100.0	2,094.4	2,182.4	2,182.4	4.3	3.8	-153.17	131.5	-98.5	267.3	259.7	7.59	35.198		
2,200.0	2,193.9	2,281.9	2,281.9	4.5	4.0	-154.06	131.5	-98.5	275.8	267.9	7.95	34.715		
2,300.0	2,293.4	2,381.4	2,381.4	4.8	4.2	-154.90	131.5	-98.5	284.5	276.2	8.30	34.283		
2,400.0	2,393.0	2,481.0	2,481.0	5.0	4.3	-155.69	131.5	-98.5	293.2	284.5	8.65	33.895		
2,500.0	2,492.5	2,580.5	2,580.5	5.3	4.5	-156.44	131.5	-98.5	301.9	292.9	9.00	33.546		
2,600.0	2,592.1	2,680.1	2,680.1	5.5	4.7	-157.14	131.5	-98.5	310.7	301.3	9.35	33.229		
2,700.0	2,691.6	2,779.6	2,779.6	5.7	4.9	-157.81	131.5	-98.5	319.5	309.8	9.70	32.942		
2,800.0	2,791.2	2,879.2	2,879.2	6.0	5.0	-158.44	131.5	-98.5	328.4	318.3	10.05	32.680		
2,900.0	2,890.7	2,978.7	2,978.7	6.2	5.2	-159.03	131.5	-98.5	337.3	326.9	10.40	32.440		
3,000.0	2,990.2	3,078.2	3,078.2	6.5	5.4	-159.60	131.5	-98.5	346.2	335.5	10.75	32.220		
3,100.0	3,089.8	3,177.8	3,177.8	6.7	5.5	-160.14	131.5	-98.5	355.2	344.1	11.09	32.017		
3,200.0	3,189.3	3,277.3	3,277.3	6.9	5.7	-160.65	131.5	-98.5	364.2	352.8	11.44	31.830		
3,300.0	3,288.9	3,376.9	3,376.9	7.2	5.9	-161.13	131.5	-98.5	373.3	361.5	11.79	31.657		
3,400.0	3,388.4	3,476.4	3,476.4	7.4	6.1	-161.59	131.5	-98.5	382.3	370.2	12.14	31.496		
3,500.0	3,487.9	3,575.9	3,575.9	7.7	6.2	-162.04	131.5	-98.5	391.4	378.9	12.49	31.346		
3,600.0	3,587.5	3,675.5	3,675.5	7.9	6.4	-162.46	131.5	-98.5	400.5	387.7	12.83	31.207		
3,700.0	3,687.0	3,775.0	3,775.0	8.1	6.6	-162.86	131.5	-98.5	409.6	396.4	13.18	31.077		
3,800.0	3,786.6	3,874.6	3,874.6	8.4	6.8	-163.25	131.5	-98.5	418.8	405.2	13.53	30.955		
3,900.0	3,886.1	3,974.1	3,974.1	8.6	6.9	-163.61	131.5	-98.5	427.9	414.1	13.88	30.841		
4,000.0	3,985.7	4,073.7	4,073.7	8.9	7.1	-163.97	131.5	-98.5	437.1	422.9	14.22	30.733		
4,100.0	4,085.2	4,173.2	4,173.2	9.1	7.3	-164.31	131.5	-98.5	446.3	431.7	14.57	30.632		
4,200.0	4,184.7	4,272.7	4,272.7	9.3	7.5	-164.63	131.5	-98.5	455.5	440.6	14.92	30.537		
4,300.0	4,284.3	4,372.3	4,372.3	9.6	7.6	-164.94	131.5	-98.5	464.7	449.5	15.26	30.447		
4,400.0	4,383.8	4,471.8	4,471.8	9.8	7.8	-165.24	131.5	-98.5	474.0	458.4	15.61	30.362		
4,500.0	4,483.4	4,571.4	4,571.4	10.1	8.0	-165.53	131.5	-98.5	483.2	467.3	15.96	30.282		
4,600.0	4,582.9	4,670.9	4,670.9	10.3	8.2	-165.81	131.5	-98.5	492.5	476.2	16.30	30.206		
4,700.0	4,682.5	4,770.5	4,770.5	10.5	8.3	-166.08	131.5	-98.5	501.7	485.1	16.65	30.134		
4,800.0	4,782.0	4,870.0	4,870.0	10.8	8.5	-166.33	131.5	-98.5	511.0	494.0	17.00	30.065		
4,900.0	4,881.5	4,969.5	4,969.5	11.0	8.7	-166.58	131.5	-98.5	520.3	503.0	17.34	30.000		
5,000.0	4,981.1	5,069.1	5,069.1	11.3	8.8	-166.82	131.5	-98.5	529.6	511.9	17.69	29.937		
5,100.0	5,080.6	5,168.6	5,168.6	11.5	9.0	-167.05	131.5	-98.5	538.9	520.9	18.04	29.878		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,180.2	5,268.2	5,268.2	11.8	9.2	-167.28	131.5	-98.5	548.2	529.9	18.38	29.821		
5,300.0	5,279.7	5,367.7	5,367.7	12.0	9.4	-167.49	131.5	-98.5	557.6	538.8	18.73	29.767		
5,400.0	5,379.3	5,467.3	5,467.3	12.2	9.5	-167.70	131.5	-98.5	566.9	547.8	19.08	29.715		
5,500.0	5,478.8	5,566.8	5,566.8	12.5	9.7	-167.90	131.5	-98.5	576.2	556.8	19.42	29.666		
5,600.0	5,578.3	5,666.3	5,666.3	12.7	9.9	-168.10	131.5	-98.5	585.6	565.8	19.77	29.618		
5,700.0	5,677.9	5,765.9	5,765.9	13.0	10.1	-168.29	131.5	-98.5	594.9	574.8	20.12	29.573		
5,800.0	5,777.4	5,865.4	5,865.4	13.2	10.2	-168.47	131.5	-98.5	604.3	583.8	20.46	29.529		
5,900.0	5,877.0	5,965.0	5,965.0	13.4	10.4	-168.65	131.5	-98.5	613.7	592.9	20.81	29.487		
6,000.0	5,976.5	6,064.5	6,064.5	13.7	10.6	-168.83	131.5	-98.5	623.0	601.9	21.16	29.447		
6,100.0	6,076.1	6,164.1	6,164.1	13.9	10.8	-168.99	131.5	-98.5	632.4	610.9	21.50	29.408		
6,200.0	6,175.6	6,263.6	6,263.6	14.2	10.9	-169.16	131.5	-98.5	641.8	619.9	21.85	29.371		
6,300.0	6,275.1	6,363.1	6,363.1	14.4	11.1	-169.31	131.5	-98.5	651.2	629.0	22.20	29.335		
6,400.0	6,374.7	6,462.7	6,462.7	14.6	11.3	-169.47	131.5	-98.5	660.6	638.0	22.54	29.301		
6,500.0	6,474.2	6,562.2	6,562.2	14.9	11.5	-169.62	131.5	-98.5	670.0	647.1	22.89	29.267		
6,600.0	6,573.8	6,661.8	6,661.8	15.1	11.6	-169.76	131.5	-98.5	679.4	656.1	23.24	29.235		
6,700.0	6,673.3	6,761.3	6,761.3	15.4	11.8	-169.90	131.5	-98.5	688.8	665.2	23.59	29.204		
6,800.0	6,772.9	6,860.9	6,860.9	15.6	12.0	-170.04	131.5	-98.5	698.2	674.3	23.93	29.174		
6,900.0	6,872.4	6,960.4	6,960.4	15.9	12.1	-170.17	131.5	-98.5	707.6	683.3	24.28	29.145		
7,000.0	6,971.9	7,059.9	7,059.9	16.1	12.3	-126.75	131.5	-98.5	716.5	691.9	24.63	29.089		
7,100.0	7,070.0	7,158.0	7,158.0	16.3	12.5	-96.67	131.5	-98.5	721.6	696.6	24.99	28.871		
7,200.0	7,163.9	7,251.9	7,251.9	16.5	12.7	-90.91	131.5	-98.5	723.4	698.0	25.36	28.527		
7,300.0	7,250.6	7,338.6	7,338.6	16.8	12.8	-90.79	131.5	-98.5	724.0	698.2	25.72	28.153		
7,400.0	7,327.6	7,415.6	7,415.6	17.1	12.9	-92.57	131.5	-98.5	726.3	700.3	26.06	27.871		
7,500.0	7,392.5	7,480.5	7,480.5	17.5	13.1	-94.60	131.5	-98.5	733.9	707.5	26.39	27.811 SF		
7,600.0	7,443.4	7,531.4	7,531.4	18.1	13.1	-95.76	131.5	-98.5	749.5	722.8	26.68	28.088		
7,700.0	7,478.6	7,566.6	7,566.6	18.8	13.2	-95.25	131.5	-98.5	775.2	748.3	26.94	28.771		
7,800.0	7,497.1	7,585.1	7,585.1	19.6	13.2	-92.59	131.5	-98.5	811.4	784.2	27.16	29.873		
7,900.0	7,500.0	7,588.0	7,588.0	20.5	13.2	-90.00	131.5	-98.5	856.9	829.5	27.34	31.345		
8,000.0	7,500.0	7,588.0	7,588.0	21.5	13.2	-90.00	131.5	-98.5	910.9	883.4	27.50	33.127		
8,100.0	7,500.0	7,588.0	7,588.0	22.7	13.2	-90.00	131.5	-98.5	972.3	944.7	27.65	35.159		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - G													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
8,100.0	7,500.0	7,496.0	7,493.4	22.7	13.1	83.63	1,607.9	1,157.4	996.7	969.2	27.54	36.196		
8,200.0	7,500.0	7,500.5	7,497.9	23.9	13.1	84.14	1,608.1	1,157.6	911.6	884.2	27.45	33.214		
8,300.0	7,500.0	7,504.9	7,502.3	25.1	13.2	84.65	1,608.3	1,157.8	829.9	802.2	27.65	30.019		
8,400.0	7,500.0	7,509.2	7,506.6	26.4	13.2	85.14	1,608.4	1,158.0	752.5	724.2	28.32	26.569		
8,500.0	7,500.0	7,513.4	7,510.8	27.8	13.2	85.62	1,608.6	1,158.2	681.1	651.4	29.71	22.922		
8,600.0	7,500.0	7,517.5	7,514.9	29.2	13.2	86.09	1,608.7	1,158.3	617.6	585.6	32.00	19.297		
8,700.0	7,500.0	7,521.4	7,518.8	30.7	13.2	86.54	1,608.9	1,158.5	564.7	529.5	35.24	16.023		
8,800.0	7,500.0	7,525.2	7,522.6	32.1	13.2	86.97	1,609.0	1,158.7	525.7	486.5	39.22	13.405		
8,900.0	7,500.0	7,528.9	7,526.3	33.6	13.2	87.40	1,609.1	1,158.8	503.8	460.4	43.41	11.608		
8,962.9	7,500.0	7,531.2	7,528.6	34.6	13.2	87.66	1,609.2	1,158.9	499.9	454.1	45.83	10.908 CC, ES		
9,000.0	7,500.0	7,532.5	7,529.9	35.2	13.2	87.81	1,609.3	1,159.0	501.3	454.2	47.10	10.643		
9,100.0	7,500.0	7,536.0	7,533.4	36.7	13.2	88.21	1,609.4	1,159.1	518.4	468.6	49.75	10.419 SF		
9,200.0	7,500.0	7,539.4	7,536.7	38.3	13.2	88.60	1,609.5	1,159.2	553.2	502.0	51.22	10.802		
9,300.0	7,500.0	7,542.7	7,540.0	39.9	13.2	88.97	1,609.6	1,159.4	602.8	551.1	51.73	11.655		
9,400.0	7,500.0	7,545.9	7,543.2	41.4	13.2	89.34	1,609.7	1,159.5	663.9	612.3	51.62	12.862		
9,500.0	7,500.0	7,549.0	7,546.4	43.1	13.2	89.70	1,609.8	1,159.6	733.5	682.4	51.17	14.335		
9,600.0	7,500.0	7,552.0	7,549.4	44.7	13.2	90.04	1,609.9	1,159.7	809.6	759.0	50.58	16.006		
9,700.0	7,500.0	7,555.0	7,552.3	46.3	13.2	90.38	1,610.0	1,159.9	890.3	840.4	49.95	17.824		
9,800.0	7,500.0	7,557.9	7,555.2	47.9	13.2	90.71	1,610.1	1,160.0	974.6	925.3	49.34	19.755		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - S													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,700.0	4,682.5	4,994.9	4,781.2	10.5	25.2	-23.52	264.0	1,357.0	1,031.1	997.6	33.50	30.780		
4,800.0	4,782.0	5,077.9	4,861.8	10.8	25.6	-22.59	244.6	1,359.8	1,018.7	984.6	34.08	29.891		
4,900.0	4,881.5	5,173.2	4,955.1	11.0	25.9	-21.68	225.3	1,363.0	1,007.5	972.9	34.64	29.084		
5,000.0	4,981.1	5,269.2	5,049.6	11.3	26.2	-20.92	208.9	1,365.6	996.7	961.6	35.15	28.358		
5,100.0	5,080.6	5,367.4	5,146.7	11.5	26.5	-20.26	194.4	1,367.8	986.2	950.6	35.62	27.685		
5,200.0	5,180.2	5,469.1	5,247.6	11.8	26.8	-19.70	181.5	1,369.3	975.7	939.7	36.06	27.056		
5,300.0	5,279.7	5,569.5	5,347.5	12.0	27.0	-19.29	171.3	1,370.1	965.1	928.7	36.45	26.476		
5,400.0	5,379.3	5,664.0	5,441.7	12.2	27.2	-19.04	164.1	1,370.3	954.6	917.8	36.80	25.940		
5,500.0	5,478.8	5,749.5	5,527.1	12.5	27.3	-18.93	159.6	1,370.9	945.1	908.0	37.10	25.477		
5,600.0	5,578.3	5,866.3	5,643.9	12.7	27.3	-19.03	157.7	1,371.6	936.5	899.1	37.35	25.071		
5,700.0	5,677.9	5,958.8	5,736.4	13.0	27.4	-19.22	157.6	1,370.4	926.1	888.5	37.61	24.625		
5,800.0	5,777.4	6,052.0	5,829.5	13.2	27.5	-19.39	157.4	1,370.4	917.0	879.2	37.87	24.217		
5,900.0	5,877.0	6,145.3	5,922.8	13.4	27.5	-19.56	157.2	1,371.1	908.7	870.6	38.11	23.844		
6,000.0	5,976.5	6,243.9	6,021.5	13.7	27.6	-19.77	157.6	1,371.7	900.4	862.0	38.35	23.475		
6,100.0	6,076.1	6,340.2	6,117.7	13.9	27.7	-19.99	158.2	1,372.5	892.3	853.7	38.60	23.115		
6,200.0	6,175.6	6,439.1	6,216.6	14.2	27.7	-20.21	158.5	1,373.7	884.7	845.8	38.86	22.767		
6,300.0	6,275.1	6,542.5	6,320.0	14.4	27.8	-20.44	158.9	1,374.7	876.7	837.6	39.11	22.416		
6,400.0	6,374.7	6,643.3	6,420.8	14.6	27.9	-20.67	159.2	1,375.4	868.5	829.1	39.37	22.060		
6,500.0	6,474.2	6,742.7	6,520.2	14.9	27.9	-20.90	159.4	1,376.0	860.2	820.6	39.63	21.708		
6,600.0	6,573.8	6,841.9	6,619.4	15.1	28.0	-21.12	159.5	1,376.8	852.0	812.1	39.89	21.359		
6,700.0	6,673.3	6,941.1	6,718.6	15.4	28.1	-21.33	159.4	1,377.6	843.9	803.7	40.16	21.015		
6,800.0	6,772.9	7,040.1	6,817.6	15.6	28.2	-21.54	159.2	1,378.5	835.8	795.4	40.42	20.675		
6,900.0	6,872.4	7,139.0	6,916.5	15.9	28.3	-21.74	158.9	1,379.5	827.8	787.1	40.70	20.338		
7,000.0	6,971.9	7,237.4	7,014.9	16.1	28.4	-21.97	158.0	1,380.8	819.4	778.4	40.97	19.998		
7,100.0	7,070.0	7,338.1	7,115.6	16.3	28.5	-22.22	156.5	1,382.3	807.1	765.9	41.15	19.613		
7,200.0	7,163.9	7,436.7	7,214.2	16.5	28.6	-22.48	155.6	1,383.0	790.9	749.6	41.26	19.169		
7,300.0	7,250.6	7,531.4	7,308.9	16.8	28.6	-22.75	155.0	1,382.9	773.1	731.7	41.35	18.693		
7,400.0	7,327.6	7,615.9	7,393.4	17.1	28.7	-23.02	154.7	1,381.8	756.9	715.3	41.55	18.217		
7,500.0	7,392.5	7,678.8	7,456.2	17.5	28.8	-23.29	154.6	1,380.7	746.9	705.0	41.95	17.805		
7,544.7	7,417.1	7,702.2	7,479.6	17.8	28.8	-23.52	154.6	1,380.3	745.8	703.5	42.23	17.660 CC, ES		
7,600.0	7,443.4	7,727.2	7,504.6	18.1	28.8	-23.77	154.5	1,380.0	747.7	705.2	42.57	17.565 SF		
7,700.0	7,478.6	7,760.8	7,538.2	18.8	28.8	-24.14	154.4	1,379.6	761.9	718.7	43.27	17.610		
7,800.0	7,497.1	7,778.3	7,555.8	19.6	28.8	-24.70	154.4	1,379.4	790.5	746.6	43.87	18.021		
7,900.0	7,500.0	7,780.9	7,558.3	20.5	28.8	-25.49	154.4	1,379.4	832.1	787.8	44.25	18.804		
8,000.0	7,500.0	7,780.7	7,558.2	21.5	28.8	-26.48	154.4	1,379.4	883.3	838.9	44.43	19.882		
8,100.0	7,500.0	7,780.6	7,558.0	22.7	28.8	-27.67	154.4	1,379.4	942.4	898.0	44.45	21.202		
8,200.0	7,500.0	7,780.4	7,557.8	23.9	28.8	-29.05	154.4	1,379.4	1,008.0	963.6	44.37	22.720		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - S										Offset Site Error:		0.0 ft	
Survey Program: 41-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
3,000.0	2,990.2	3,569.3	3,344.7	6.5	21.0	-39.14	470.6	1,008.8	985.2	963.8	21.39	46.056	
3,100.0	3,089.8	3,663.2	3,428.7	6.7	21.7	-37.40	428.9	1,002.7	947.8	925.4	22.46	42.199	
3,200.0	3,189.3	3,757.7	3,513.2	6.9	22.5	-35.60	387.5	995.2	910.3	886.8	23.53	38.683	
3,300.0	3,288.9	3,843.0	3,590.1	7.2	23.1	-33.95	351.3	987.4	873.6	849.0	24.56	35.567	
3,400.0	3,388.4	3,926.9	3,666.5	7.4	23.7	-32.34	317.4	979.4	838.2	812.6	25.59	32.752	
3,500.0	3,487.9	4,008.2	3,740.6	7.7	24.3	-30.64	284.7	972.4	804.3	777.7	26.66	30.165	
3,600.0	3,587.5	4,097.0	3,821.3	7.9	25.0	-28.58	248.5	965.9	772.3	744.5	27.82	27.757	
3,700.0	3,687.0	4,177.2	3,894.0	8.1	25.6	-26.50	214.9	960.5	741.5	712.5	29.02	25.552	
3,800.0	3,786.6	4,257.7	3,966.7	8.4	26.2	-24.18	180.6	957.2	714.0	683.7	30.27	23.589	
3,900.0	3,886.1	4,346.5	4,047.0	8.6	26.9	-21.45	142.7	953.7	688.3	656.7	31.56	21.806	
4,000.0	3,985.7	4,442.6	4,133.9	8.9	27.7	-18.32	102.0	950.2	664.7	631.8	32.93	20.185	
4,100.0	4,085.2	4,545.9	4,225.4	9.1	28.5	-14.39	54.3	945.1	641.4	607.0	34.42	18.635	
4,200.0	4,184.7	4,634.8	4,303.6	9.3	29.3	-10.71	12.3	939.8	619.8	584.0	35.79	17.317	
4,300.0	4,284.3	4,714.5	4,374.3	9.6	29.9	-7.37	-24.1	935.4	601.8	564.8	36.98	16.274	
4,400.0	4,383.8	4,799.6	4,451.4	9.8	30.5	-3.93	-60.1	931.8	588.0	550.0	38.02	15.465	
4,500.0	4,483.4	4,891.8	4,536.4	10.1	31.1	-0.44	-95.5	928.2	577.1	538.2	38.94	14.820	
4,600.0	4,582.9	4,995.7	4,633.7	10.3	31.8	3.23	-131.5	923.7	567.8	528.0	39.78	14.275	
4,700.0	4,682.5	5,088.7	4,721.8	10.5	32.3	6.36	-161.1	919.0	559.4	519.0	40.43	13.838	
4,800.0	4,782.0	5,186.2	4,815.1	10.8	32.8	9.39	-189.1	914.8	552.9	511.9	40.96	13.500	
4,900.0	4,881.5	5,287.2	4,912.8	11.0	33.2	12.19	-214.1	911.0	547.1	505.7	41.39	13.220	
5,000.0	4,981.1	5,388.3	5,011.8	11.3	33.6	14.54	-234.4	907.8	541.7	500.0	41.72	12.984	
5,100.0	5,080.6	5,490.7	5,112.7	11.5	33.9	16.63	-251.6	905.2	536.4	494.4	42.02	12.766	
5,200.0	5,180.2	5,598.7	5,219.5	11.8	34.2	18.61	-267.0	902.2	530.5	488.2	42.25	12.555	
5,300.0	5,279.7	5,705.4	5,325.7	12.0	34.4	20.18	-277.7	899.1	523.2	480.7	42.46	12.321	
5,400.0	5,379.3	5,808.8	5,428.8	12.2	34.6	21.43	-285.0	896.2	515.0	472.3	42.63	12.081	
5,500.0	5,478.8	5,910.3	5,530.2	12.5	34.7	22.35	-289.3	894.5	506.6	463.8	42.79	11.839	
5,600.0	5,578.3	6,017.0	5,636.8	12.7	34.8	23.11	-291.3	892.7	497.1	454.2	42.94	11.578	
5,700.0	5,677.9	6,117.9	5,737.8	13.0	34.8	23.66	-291.3	890.8	486.7	443.6	43.10	11.292	
5,800.0	5,777.4	6,216.8	5,836.6	13.2	34.9	24.22	-291.3	889.0	476.5	433.2	43.28	11.009	
5,900.0	5,877.0	6,315.8	5,935.6	13.4	35.0	24.81	-291.3	887.3	466.3	422.8	43.44	10.733	
6,000.0	5,976.5	6,414.8	6,034.6	13.7	35.0	25.43	-291.5	885.6	456.3	412.7	43.60	10.464	
6,100.0	6,076.1	6,513.6	6,133.4	13.9	35.1	26.07	-291.6	884.1	446.4	402.6	43.76	10.201	
6,200.0	6,175.6	6,612.0	6,231.7	14.2	35.1	26.67	-291.4	883.0	436.8	392.9	43.90	9.948	
6,300.0	6,275.1	6,710.7	6,330.4	14.4	35.2	27.22	-290.8	882.4	427.4	383.3	44.06	9.700	
6,400.0	6,374.7	6,809.8	6,429.5	14.6	35.2	27.82	-290.4	881.8	418.2	374.0	44.21	9.458	
6,500.0	6,474.2	6,909.2	6,528.9	14.9	35.3	28.48	-290.3	881.1	409.1	364.7	44.36	9.222	
6,600.0	6,573.8	7,008.7	6,628.4	15.1	35.3	29.20	-290.3	880.3	400.1	355.6	44.50	8.991	
6,700.0	6,673.3	7,108.7	6,728.5	15.4	35.4	29.99	-290.4	879.3	391.0	346.4	44.63	8.762	
6,800.0	6,772.9	7,208.7	6,828.4	15.6	35.5	30.85	-290.7	878.0	381.9	337.2	44.74	8.536	
6,900.0	6,872.4	7,308.4	6,928.1	15.9	35.6	31.77	-291.0	876.6	372.8	327.9	44.85	8.312	
7,000.0	6,971.9	7,408.3	7,028.0	16.1	35.6	76.56	-291.3	875.0	364.9	320.0	44.91	8.124	
7,034.6	7,006.2	7,442.8	7,062.5	16.2	35.7	94.20	-291.3	874.4	364.2	319.3	44.89	8.113 CC, ES, SF	
7,100.0	7,070.0	7,507.2	7,126.9	16.3	35.7	110.44	-291.4	873.3	366.8	322.1	44.68	8.209	
7,200.0	7,163.9	7,601.3	7,221.0	16.5	35.8	122.06	-291.4	871.5	381.9	337.8	44.09	8.662	
7,300.0	7,250.6	7,688.2	7,307.8	16.8	35.8	128.80	-291.4	869.8	412.2	369.1	43.18	9.547	
7,400.0	7,327.6	7,765.9	7,385.6	17.1	35.9	132.94	-291.2	868.3	458.7	416.6	42.10	10.897	
7,500.0	7,392.5	7,832.0	7,451.6	17.5	35.9	134.58	-290.9	867.0	520.5	479.5	41.02	12.691	
7,600.0	7,443.4	7,884.1	7,503.7	18.1	35.9	133.05	-290.6	866.0	595.6	555.5	40.08	14.861	
7,700.0	7,478.6	7,919.8	7,539.4	18.8	36.0	126.32	-290.3	865.4	681.0	641.6	39.32	17.316	
7,800.0	7,497.1	7,939.0	7,558.6	19.6	36.0	109.61	-290.2	865.1	773.4	734.6	38.76	19.951	
7,900.0	7,500.0	7,942.6	7,562.2	20.5	36.0	92.60	-290.1	865.0	869.3	830.9	38.36	22.662	
8,000.0	7,500.0	7,943.4	7,563.0	21.5	36.0	92.80	-290.1	865.0	966.2	928.1	38.07	25.382	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WEL													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
3,100.0	3,089.8	3,128.4	3,128.1	6.7	5.5	-62.96	821.9	776.3	1,011.7	999.8	11.93	84.819		
3,200.0	3,189.3	3,229.7	3,229.3	6.9	5.7	-63.54	822.6	774.8	1,007.2	994.9	12.34	81.593		
3,300.0	3,288.9	3,326.8	3,326.4	7.2	5.8	-64.12	823.5	773.3	1,002.9	990.1	12.76	78.622		
3,400.0	3,388.4	3,421.8	3,421.4	7.4	6.0	-64.69	824.7	771.9	999.0	985.9	13.16	75.889		
3,500.0	3,487.9	3,516.8	3,516.4	7.7	6.2	-65.24	826.0	771.0	995.7	982.1	13.57	73.360		
3,600.0	3,587.5	3,608.2	3,607.8	7.9	6.3	-65.77	827.6	770.7	993.1	979.1	13.97	71.065		
3,700.0	3,687.0	3,700.0	3,699.5	8.1	6.5	-66.30	829.9	770.7	991.4	977.0	14.38	68.958		
3,800.0	3,786.6	3,808.0	3,807.5	8.4	6.7	-66.94	832.7	770.5	989.7	974.9	14.81	66.822		
3,900.0	3,886.1	3,917.2	3,916.7	8.6	6.9	-67.57	834.6	769.9	987.2	972.0	15.25	64.749		
4,000.0	3,985.7	4,023.8	4,023.3	8.9	7.1	-68.20	835.6	769.0	984.1	968.4	15.68	62.767		
4,100.0	4,085.2	4,131.7	4,131.2	9.1	7.3	-68.86	835.9	767.2	980.0	963.9	16.11	60.817		
4,200.0	4,184.7	4,228.9	4,228.3	9.3	7.4	-69.49	836.3	765.1	976.0	959.4	16.53	59.030		
4,300.0	4,284.3	4,329.6	4,329.0	9.6	7.6	-70.11	836.3	763.4	972.0	955.0	16.96	57.320		
4,400.0	4,383.8	4,427.5	4,426.9	9.8	7.8	-70.70	836.4	762.0	968.1	950.8	17.38	55.714		
4,500.0	4,483.4	4,523.9	4,523.3	10.1	7.9	-71.35	836.9	759.8	964.6	946.8	17.80	54.192		
4,600.0	4,582.9	4,615.5	4,614.9	10.3	8.1	-72.01	838.3	757.5	961.9	943.7	18.21	52.811		
4,700.0	4,682.5	4,720.8	4,720.1	10.5	8.3	-72.73	839.6	755.3	959.3	940.6	18.65	51.435		
4,800.0	4,782.0	4,823.3	4,822.6	10.8	8.5	-73.42	840.4	753.2	956.4	937.3	19.08	50.120		
4,900.0	4,881.5	4,926.9	4,926.2	11.0	8.7	-74.07	840.4	751.9	953.2	933.7	19.51	48.853		
5,000.0	4,981.1	5,027.0	5,026.3	11.3	8.8	-74.68	840.0	750.6	949.8	929.8	19.94	47.640		
5,100.0	5,080.6	5,121.4	5,120.6	11.5	9.0	-75.29	840.1	749.2	946.8	926.5	20.35	46.519		
5,200.0	5,180.2	5,221.0	5,220.3	11.8	9.2	-75.96	840.6	747.4	944.3	923.5	20.78	45.438		
5,300.0	5,279.7	5,321.1	5,320.3	12.0	9.4	-76.65	841.0	745.3	941.6	920.4	21.21	44.395		
5,400.0	5,379.3	5,414.3	5,413.5	12.2	9.5	-77.27	841.6	744.0	939.6	918.0	21.63	43.451		
5,500.0	5,478.8	5,518.1	5,517.3	12.5	9.7	-77.93	842.1	742.9	937.7	915.6	22.06	42.510		
5,600.0	5,578.3	5,615.7	5,614.9	12.7	9.9	-78.56	842.5	741.8	935.8	913.3	22.48	41.628		
5,700.0	5,677.9	5,716.9	5,716.1	13.0	10.1	-79.26	843.1	740.1	934.0	911.1	22.91	40.769		
5,800.0	5,777.4	5,818.7	5,817.8	13.2	10.2	-79.98	843.6	737.9	932.1	908.8	23.34	39.933		
5,900.0	5,877.0	5,916.0	5,915.2	13.4	10.4	-80.67	844.0	735.8	930.4	906.6	23.77	39.147		
6,000.0	5,976.5	6,016.2	6,015.3	13.7	10.6	-81.38	844.6	733.9	928.9	904.7	24.19	38.394		
6,100.0	6,076.1	6,122.1	6,121.2	13.9	10.8	-82.14	844.6	731.5	927.0	902.4	24.63	37.635		
6,200.0	6,175.6	6,221.1	6,220.1	14.2	11.0	-82.87	844.5	729.0	925.0	899.9	25.06	36.915		
6,300.0	6,275.1	6,318.9	6,317.9	14.4	11.1	-83.58	844.4	726.7	923.2	897.8	25.48	36.233		
6,400.0	6,374.7	6,414.8	6,413.8	14.6	11.3	-84.26	844.4	724.8	921.9	896.0	25.90	35.594		
6,500.0	6,474.2	6,506.0	6,505.0	14.9	11.5	-84.92	845.2	723.0	921.3	895.0	26.31	35.019		
6,600.0	6,573.8	6,609.3	6,608.3	15.1	11.6	-85.64	846.1	721.4	921.1	894.4	26.74	34.449		
6,700.0	6,673.3	6,707.9	6,706.9	15.4	11.8	-86.31	846.7	720.1	920.9	893.7	27.16	33.908		
6,800.0	6,772.9	6,812.5	6,811.4	15.6	12.0	-87.01	847.2	718.8	920.5	892.9	27.59	33.368		
6,900.0	6,872.4	6,912.4	6,911.4	15.9	12.2	-87.71	847.3	717.1	919.9	891.9	28.01	32.845		
7,000.0	6,971.9	7,009.4	7,008.3	16.1	12.3	-45.07	847.7	714.9	917.7	889.3	28.42	32.293		
7,100.0	7,070.0	7,114.1	7,113.0	16.3	12.5	-14.49	847.7	713.0	900.5	871.6	28.82	31.249		
7,200.0	7,163.9	7,209.7	7,208.6	16.5	12.7	-6.46	847.3	711.0	866.1	837.0	29.18	29.686		
7,300.0	7,250.6	7,302.6	7,301.4	16.8	12.9	-2.81	846.6	708.1	815.8	786.3	29.51	27.643		
7,400.0	7,327.6	7,411.8	7,410.4	17.1	13.1	-0.45	843.0	703.6	749.3	719.5	29.81	25.133		
7,500.0	7,392.5	7,500.0	7,498.4	17.5	13.2	2.77	836.0	702.4	668.4	638.4	29.99	22.288		
7,600.0	7,443.4	7,532.1	7,530.3	18.1	13.3	8.54	832.9	702.9	578.1	548.0	30.14	19.180		
7,700.0	7,478.6	7,553.5	7,551.7	18.8	13.3	23.37	831.1	703.4	482.4	452.2	30.19	15.978		
7,800.0	7,497.1	7,562.7	7,560.8	19.6	13.3	75.88	830.5	703.7	383.8	353.7	30.10	12.753		
7,900.0	7,500.0	7,559.0	7,557.1	20.5	13.3	110.06	830.7	703.6	285.2	255.4	29.76	9.582		
8,000.0	7,500.0	7,552.4	7,550.5	21.5	13.3	103.48	831.2	703.4	188.0	159.0	29.00	6.481		
8,100.0	7,500.0	7,545.1	7,543.2	22.7	13.3	95.76	831.8	703.2	96.1	68.7	27.40	3.509		
8,181.3	7,500.0	7,538.6	7,536.8	23.6	13.3	88.69	832.3	703.1	51.8	17.9	33.92	1.528 CC, ES		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WEL													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,200.0	7,500.0	7,537.1	7,535.3	23.9	13.3	86.97	832.5	703.0	55.1	18.7	36.36	1.515 SF		
8,300.0	7,500.0	7,528.2	7,526.4	25.1	13.2	77.36	833.2	702.8	129.2	93.6	35.52	3.636		
8,400.0	7,500.0	7,518.3	7,516.6	26.4	13.2	67.40	834.1	702.7	224.0	189.8	34.19	6.550		
8,500.0	7,500.0	7,507.3	7,505.6	27.8	13.2	57.70	835.2	702.5	321.6	288.0	33.63	9.564		
8,600.0	7,500.0	7,500.0	7,498.4	29.2	13.2	52.21	836.0	702.4	420.1	386.7	33.40	12.581		
8,700.0	7,500.0	7,500.0	7,498.4	30.7	13.2	52.21	836.0	702.4	519.2	485.8	33.34	15.572		
8,800.0	7,500.0	7,481.7	7,480.2	32.1	13.2	41.41	837.8	702.3	618.2	584.9	33.22	18.608		
8,900.0	7,500.0	7,475.1	7,473.6	33.6	13.2	38.36	838.4	702.3	717.4	684.2	33.22	21.593		
9,000.0	7,500.0	7,468.9	7,467.4	35.2	13.2	35.86	838.9	702.3	816.8	783.6	33.26	24.561		
9,100.0	7,500.0	7,463.2	7,461.7	36.7	13.1	33.79	839.4	702.4	916.3	883.0	33.31	27.509		
9,200.0	7,500.0	7,457.9	7,456.4	38.3	13.1	32.06	839.8	702.4	1,015.8	982.4	33.37	30.439		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-22.4	22.4				
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-22.4	22.4	22.1	0.30	73.728	
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-22.4	22.4	21.7	0.65	34.301	CC, ES
300.0	300.0	299.7	299.6	0.5	0.5	-91.05	-0.4	-23.1	23.1	22.1	1.00	23.116	
400.0	400.0	399.2	399.2	0.7	0.7	-93.88	-1.7	-25.4	25.5	24.1	1.35	18.854	
500.0	500.0	498.7	498.6	0.8	0.9	-97.59	-3.9	-29.1	29.4	27.7	1.70	17.313	
600.0	600.0	598.0	597.6	1.0	1.1	162.90	-6.9	-34.4	36.0	33.9	2.05	17.553	
700.0	700.0	697.7	697.2	1.2	1.3	161.97	-9.5	-40.3	44.8	42.4	2.40	18.701	
800.0	799.9	797.3	796.5	1.4	1.5	163.18	-10.9	-46.2	55.0	52.3	2.75	20.036	
900.0	899.7	896.5	895.6	1.6	1.7	164.45	-12.3	-52.0	66.9	63.8	3.10	21.608	
1,000.0	999.4	995.6	994.5	1.8	1.9	165.65	-13.6	-57.8	80.5	77.0	3.44	23.354	
1,100.0	1,098.9	1,094.5	1,093.2	2.0	2.1	166.72	-15.0	-63.6	95.5	91.7	3.79	25.170	
1,200.0	1,198.5	1,193.3	1,191.8	2.2	2.3	167.54	-16.3	-69.4	110.8	106.6	4.14	26.734	
1,300.0	1,298.0	1,292.1	1,290.5	2.4	2.5	168.15	-17.6	-75.3	126.1	121.6	4.49	28.060	
1,400.0	1,397.6	1,390.9	1,389.1	2.7	2.7	168.64	-18.9	-81.1	141.3	136.5	4.84	29.197	
1,500.0	1,497.1	1,489.7	1,487.7	2.9	2.9	169.03	-20.3	-86.9	156.7	151.5	5.19	30.183	
1,600.0	1,596.6	1,588.5	1,586.4	3.1	3.1	169.35	-21.6	-92.7	172.0	166.4	5.54	31.047	
1,700.0	1,696.2	1,687.4	1,685.0	3.4	3.3	169.62	-22.9	-98.5	187.3	181.4	5.89	31.809	
1,800.0	1,795.7	1,786.2	1,783.7	3.6	3.5	169.84	-24.3	-104.3	202.6	196.4	6.24	32.486	
1,900.0	1,895.3	1,885.0	1,882.3	3.8	3.7	170.04	-25.6	-110.1	217.9	211.3	6.59	33.093	
2,000.0	1,994.8	1,983.8	1,980.9	4.1	3.9	170.21	-26.9	-115.9	233.2	226.3	6.93	33.638	
2,100.0	2,094.4	2,082.6	2,079.6	4.3	4.1	170.36	-28.3	-121.7	248.6	241.3	7.28	34.132	
2,200.0	2,193.9	2,181.4	2,178.2	4.5	4.3	170.49	-29.6	-127.5	263.9	256.3	7.63	34.581	
2,300.0	2,293.4	2,280.3	2,276.8	4.8	4.5	170.61	-30.9	-133.3	279.2	271.2	7.98	34.991	
2,400.0	2,393.0	2,379.1	2,375.5	5.0	4.7	170.71	-32.3	-139.1	294.5	286.2	8.33	35.367	
2,500.0	2,492.5	2,477.9	2,474.1	5.3	4.9	170.81	-33.6	-145.0	309.9	301.2	8.68	35.713	
2,600.0	2,592.1	2,576.7	2,572.8	5.5	5.1	170.89	-34.9	-150.8	325.2	316.2	9.03	36.032	
2,700.0	2,691.6	2,675.5	2,671.4	5.7	5.3	170.97	-36.3	-156.6	340.5	331.2	9.37	36.328	
2,800.0	2,791.2	2,774.3	2,770.0	6.0	5.5	171.04	-37.6	-162.4	355.9	346.1	9.72	36.602	
2,900.0	2,890.7	2,873.2	2,868.7	6.2	5.7	171.11	-38.9	-168.2	371.2	361.1	10.07	36.858	
3,000.0	2,990.2	2,972.0	2,967.3	6.5	5.9	171.17	-40.3	-174.0	386.5	376.1	10.42	37.096	
3,100.0	3,089.8	3,070.8	3,065.9	6.7	6.1	171.22	-41.6	-179.8	401.9	391.1	10.77	37.319	
3,200.0	3,189.3	3,169.6	3,164.6	6.9	6.3	171.27	-42.9	-185.6	417.2	406.1	11.12	37.528	
3,300.0	3,288.9	3,268.4	3,263.2	7.2	6.5	171.32	-44.3	-191.4	432.5	421.1	11.47	37.725	
3,400.0	3,388.4	3,367.2	3,361.9	7.4	6.7	171.37	-45.6	-197.2	447.9	436.1	11.81	37.910	
3,500.0	3,487.9	3,466.1	3,460.5	7.7	6.9	171.41	-46.9	-203.0	463.2	451.0	12.16	38.084	
3,600.0	3,587.5	3,564.9	3,559.1	7.9	7.1	171.45	-48.3	-208.8	478.5	466.0	12.51	38.249	
3,700.0	3,687.0	3,663.7	3,657.8	8.1	7.3	171.48	-49.6	-214.7	493.9	481.0	12.86	38.405	
3,800.0	3,786.6	3,762.5	3,756.4	8.4	7.5	171.52	-50.9	-220.5	509.2	496.0	13.21	38.552	
3,900.0	3,886.1	3,861.3	3,855.0	8.6	7.7	171.55	-52.3	-226.3	524.5	511.0	13.56	38.692	
4,000.0	3,985.7	3,960.1	3,953.7	8.9	7.9	171.58	-53.6	-232.1	539.9	526.0	13.91	38.825	
4,100.0	4,085.2	4,059.0	4,052.3	9.1	8.1	171.61	-54.9	-237.9	555.2	541.0	14.25	38.952	
4,200.0	4,184.7	4,157.8	4,150.9	9.3	8.3	171.64	-56.2	-243.7	570.5	555.9	14.60	39.072	
4,300.0	4,284.3	4,256.6	4,249.6	9.6	8.5	171.66	-57.6	-249.5	585.9	570.9	14.95	39.187	
4,400.0	4,383.8	4,355.4	4,348.2	9.8	8.7	171.69	-58.9	-255.3	601.2	585.9	15.30	39.297	
4,500.0	4,483.4	4,454.2	4,446.9	10.1	8.9	171.71	-60.2	-261.1	616.5	600.9	15.65	39.402	
4,600.0	4,582.9	4,553.0	4,545.5	10.3	9.1	171.73	-61.6	-266.9	631.9	615.9	16.00	39.502	
4,700.0	4,682.5	4,651.9	4,644.1	10.5	9.3	171.75	-62.9	-272.7	647.2	630.9	16.34	39.598	
4,800.0	4,782.0	4,750.7	4,742.8	10.8	9.5	171.77	-64.2	-278.5	662.6	645.9	16.69	39.690	
4,900.0	4,881.5	4,849.5	4,841.4	11.0	9.7	171.79	-65.6	-284.4	677.9	660.8	17.04	39.778	
5,000.0	4,981.1	4,948.3	4,940.0	11.3	9.9	171.81	-66.9	-290.2	693.2	675.8	17.39	39.863	
5,100.0	5,080.6	5,047.1	5,038.7	11.5	10.1	171.83	-68.2	-296.0	708.6	690.8	17.74	39.944	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)				
5,200.0	5,180.2	5,145.9	5,137.3	11.8	10.3	171.84	-69.6	-301.8	723.9	705.8	18.09	40.022		
5,300.0	5,279.7	5,244.8	5,236.0	12.0	10.5	171.86	-70.9	-307.6	739.2	720.8	18.44	40.098		
5,400.0	5,379.3	5,343.6	5,334.6	12.2	10.7	171.88	-72.2	-313.4	754.6	735.8	18.78	40.170		
5,500.0	5,478.8	5,442.4	5,433.2	12.5	10.9	171.89	-73.6	-319.2	769.9	750.8	19.13	40.240		
5,600.0	5,578.3	5,541.2	5,531.9	12.7	11.1	171.91	-74.9	-325.0	785.2	765.8	19.48	40.307		
5,700.0	5,677.9	5,640.0	5,630.5	13.0	11.3	171.92	-76.2	-330.8	800.6	780.7	19.83	40.372		
5,800.0	5,777.4	5,738.8	5,729.1	13.2	11.5	171.93	-77.6	-336.6	815.9	795.7	20.18	40.435		
5,900.0	5,877.0	5,837.7	5,827.8	13.4	11.7	171.95	-78.9	-342.4	831.2	810.7	20.53	40.496		
6,000.0	5,976.5	5,936.5	5,926.4	13.7	11.9	171.96	-80.2	-348.2	846.6	825.7	20.88	40.554		
6,100.0	6,076.1	6,035.3	6,025.0	13.9	12.1	171.97	-81.6	-354.1	861.9	840.7	21.22	40.611		
6,200.0	6,175.6	6,134.1	6,123.7	14.2	12.3	171.98	-82.9	-359.9	877.3	855.7	21.57	40.666		
6,300.0	6,275.1	6,232.9	6,222.3	14.4	12.5	171.99	-84.2	-365.7	892.6	870.7	21.92	40.719		
6,400.0	6,374.7	6,331.8	6,321.0	14.6	12.7	172.00	-85.6	-371.5	907.9	885.7	22.27	40.770		
6,500.0	6,474.2	6,430.6	6,419.6	14.9	12.9	172.01	-86.9	-377.3	923.3	900.6	22.62	40.820		
6,600.0	6,573.8	6,529.4	6,518.2	15.1	13.1	172.02	-88.2	-383.1	938.6	915.6	22.97	40.869		
6,700.0	6,673.3	6,628.2	6,616.9	15.4	13.3	172.03	-89.5	-388.9	953.9	930.6	23.31	40.916		
6,800.0	6,772.9	6,727.0	6,715.5	15.6	13.5	172.04	-90.9	-394.7	969.3	945.6	23.66	40.961		
6,900.0	6,872.4	6,825.8	6,814.1	15.9	13.7	172.05	-92.2	-400.5	984.6	960.6	24.01	41.005		
7,000.0	6,971.9	6,924.6	6,912.7	16.1	13.9	-143.99	-93.5	-406.3	1,000.0	975.7	24.35	41.064		
7,100.0	7,070.0	7,021.8	7,009.7	16.3	14.1	-112.32	-94.9	-412.0	1,016.0	991.3	24.66	41.193		
10,800.0	7,500.0	11,054.2	7,740.0	64.4	64.1	-102.57	3,449.8	-455.0	1,110.7	986.4	124.31	8.935		
10,900.0	7,500.0	11,145.6	7,740.0	66.1	65.6	-102.73	3,541.3	-455.2	1,098.3	970.9	127.43	8.619		
11,000.0	7,500.0	11,236.6	7,740.0	67.7	67.2	-102.86	3,632.2	-456.4	1,086.0	955.4	130.53	8.320		
11,100.0	7,500.0	11,335.8	7,740.0	69.4	68.9	-103.01	3,731.4	-457.9	1,073.8	940.1	133.79	8.026		
11,200.0	7,500.0	11,435.0	7,740.0	71.1	70.6	-103.16	3,830.6	-459.3	1,061.7	924.7	137.05	7.747		
11,300.0	7,500.0	11,534.2	7,740.0	72.7	72.3	-103.30	3,929.9	-460.8	1,049.8	909.4	140.32	7.481		
11,400.0	7,500.0	11,633.7	7,740.0	74.4	74.0	-103.42	4,029.3	-462.3	1,039.2	895.6	143.59	7.237		
11,500.0	7,500.0	11,733.2	7,740.0	76.1	75.7	-103.51	4,128.8	-463.8	1,030.3	883.5	146.88	7.015		
11,600.0	7,500.0	11,833.0	7,740.0	77.8	77.4	-103.59	4,228.5	-465.3	1,023.2	873.0	150.18	6.813		
11,700.0	7,500.0	11,932.8	7,740.0	79.5	79.1	-103.66	4,328.4	-466.8	1,017.7	864.2	153.49	6.630		
11,800.0	7,500.0	12,032.7	7,740.0	81.2	80.9	-103.70	4,428.3	-468.3	1,013.9	857.1	156.83	6.465		
11,900.0	7,500.0	12,132.7	7,740.0	82.9	82.6	-103.72	4,528.2	-469.8	1,011.8	851.7	160.17	6.317		
11,972.9	7,500.0	12,205.6	7,740.0	84.2	83.8	-103.73	4,601.1	-470.9	1,011.4	848.8	162.62	6.219		
12,000.0	7,500.0	12,232.7	7,740.0	84.7	84.3	-103.73	4,628.2	-471.3	1,011.4	847.9	163.54	6.185		
12,100.0	7,500.0	12,332.7	7,740.0	86.4	86.0	-103.71	4,728.2	-472.7	1,012.7	845.8	166.91	6.067		
12,200.0	7,500.0	12,432.6	7,740.0	88.1	87.8	-103.68	4,828.2	-474.2	1,015.7	845.4	170.31	5.964		
12,300.0	7,500.0	12,532.6	7,740.0	89.8	89.5	-103.63	4,928.1	-475.7	1,019.0	845.3	173.71	5.866		
12,400.0	7,500.0	12,632.5	7,740.0	91.6	91.2	-103.58	5,028.0	-477.2	1,022.4	845.3	177.12	5.772		
12,500.0	7,500.0	12,732.5	7,740.0	93.3	93.0	-103.54	5,127.9	-478.7	1,025.8	845.3	180.53	5.682		
12,600.0	7,500.0	12,832.4	7,740.0	95.0	94.7	-103.49	5,227.9	-480.2	1,029.2	845.2	183.94	5.595		
12,700.0	7,500.0	12,932.3	7,740.0	96.8	96.4	-103.45	5,327.8	-481.7	1,032.5	845.2	187.35	5.511		
12,800.0	7,500.0	13,032.3	7,740.0	98.5	98.2	-103.40	5,427.7	-483.2	1,035.9	845.1	190.76	5.430		
12,900.0	7,500.0	13,132.2	7,740.0	100.2	99.9	-103.36	5,527.7	-484.7	1,039.3	845.1	194.18	5.352		
13,000.0	7,500.0	13,232.2	7,740.0	102.0	101.6	-103.32	5,627.6	-486.2	1,042.6	845.0	197.60	5.277		
13,100.0	7,500.0	13,332.1	7,740.0	103.7	103.4	-103.27	5,727.5	-487.7	1,046.0	845.0	201.02	5.204		
13,200.0	7,500.0	13,432.0	7,740.0	105.4	105.1	-103.23	5,827.4	-489.2	1,049.4	844.9	204.44	5.133		
13,300.0	7,500.0	13,532.0	7,740.0	107.2	106.8	-103.19	5,927.4	-490.7	1,052.8	844.9	207.86	5.065		
13,400.0	7,500.0	13,631.9	7,740.0	108.9	108.6	-103.14	6,027.3	-492.2	1,056.1	844.8	211.29	4.999		
13,500.0	7,500.0	13,731.9	7,740.0	110.7	110.3	-103.10	6,127.2	-493.7	1,059.5	844.8	214.72	4.934		
13,600.0	7,500.0	13,831.8	7,740.0	112.4	112.0	-103.06	6,227.2	-495.1	1,062.9	844.7	218.14	4.872		
13,700.0	7,500.0	13,931.7	7,740.0	114.1	113.8	-103.02	6,327.1	-496.6	1,066.3	844.7	221.57	4.812		
13,800.0	7,500.0	14,031.7	7,740.0	115.9	115.5	-102.97	6,427.0	-498.1	1,069.6	844.6	225.01	4.754		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
13,900.0	7,500.0	14,131.6	7,740.0	117.6	117.3	-102.93	6,526.9	-499.6	1,073.0	844.6	228.44	4.697	
14,000.0	7,500.0	14,231.6	7,740.0	119.4	119.0	-102.89	6,626.9	-501.1	1,076.4	844.5	231.87	4.642	
14,100.0	7,500.0	14,331.5	7,740.0	121.1	120.7	-102.85	6,726.8	-502.6	1,079.8	844.5	235.31	4.589	
14,200.0	7,500.0	14,431.4	7,740.0	122.8	122.5	-102.81	6,826.7	-504.1	1,083.2	844.4	238.75	4.537	
14,300.0	7,500.0	14,531.4	7,740.0	124.6	124.2	-102.77	6,926.7	-505.6	1,086.5	844.3	242.18	4.486	
14,400.0	7,500.0	14,631.3	7,740.0	126.3	126.0	-102.73	7,026.6	-507.1	1,089.9	844.3	245.62	4.437	
14,458.1	7,500.0	14,681.2	7,740.0	127.3	126.8	-102.71	7,076.5	-507.8	1,091.9	844.5	247.44	4.413 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 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	-89.97	0.0	-15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.97	0.0	-15.1	15.1	14.8	0.30	49.767		
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-15.1	15.1	14.5	0.65	23.153		
300.0	300.0	300.0	300.0	0.5	0.5	-89.97	0.0	-15.1	15.1	14.1	1.00	15.086 CC, ES		
400.0	400.0	399.8	399.8	0.7	0.7	-92.40	-0.7	-15.7	15.7	14.3	1.35	11.613		
500.0	500.0	499.6	499.5	0.8	0.9	-98.70	-2.7	-17.3	17.6	15.9	1.70	10.321		
600.0	600.0	599.2	599.1	1.0	1.0	158.19	-6.0	-20.1	21.8	19.8	2.05	10.639		
700.0	700.0	699.4	699.2	1.2	1.2	154.70	-9.5	-22.8	27.8	25.4	2.40	11.573		
800.0	799.9	799.7	799.5	1.4	1.4	154.59	-12.0	-24.1	33.8	31.0	2.76	12.243		
900.0	899.7	900.0	899.8	1.6	1.6	156.32	-13.4	-24.0	39.7	36.6	3.11	12.744		
1,000.0	999.4	999.8	999.5	1.8	1.7	158.64	-14.5	-23.4	46.7	43.2	3.47	13.468		
1,100.0	1,098.9	1,099.4	1,099.1	2.0	1.9	160.88	-15.7	-22.8	55.2	51.4	3.82	14.448		
1,200.0	1,198.5	1,199.0	1,198.7	2.2	2.1	162.59	-16.8	-22.3	64.0	59.8	4.17	15.326		
1,300.0	1,298.0	1,298.6	1,298.3	2.4	2.3	163.89	-17.9	-21.7	72.8	68.2	4.53	16.078		
1,400.0	1,397.6	1,398.2	1,397.9	2.7	2.4	164.90	-19.0	-21.1	81.6	76.7	4.88	16.729		
1,500.0	1,497.1	1,497.8	1,497.5	2.9	2.6	165.72	-20.1	-20.6	90.4	85.2	5.23	17.297		
1,600.0	1,596.6	1,597.4	1,597.1	3.1	2.8	166.39	-21.3	-20.0	99.3	93.7	5.58	17.797		
1,700.0	1,696.2	1,697.0	1,696.6	3.4	3.0	166.95	-22.4	-19.4	108.2	102.3	5.93	18.240		
1,800.0	1,795.7	1,796.6	1,796.2	3.6	3.1	167.43	-23.5	-18.9	117.1	110.8	6.28	18.636		
1,900.0	1,895.3	1,896.2	1,895.8	3.8	3.3	167.84	-24.6	-18.3	126.0	119.3	6.63	18.991		
2,000.0	1,994.8	1,995.8	1,995.4	4.1	3.5	168.19	-25.7	-17.7	134.9	127.9	6.98	19.311		
2,100.0	2,094.4	2,095.4	2,095.0	4.3	3.7	168.50	-26.9	-17.2	143.8	136.4	7.33	19.602		
2,200.0	2,193.9	2,195.0	2,194.6	4.5	3.8	168.78	-28.0	-16.6	152.7	145.0	7.69	19.866		
2,300.0	2,293.4	2,294.6	2,294.2	4.8	4.0	169.02	-29.1	-16.1	161.6	153.5	8.04	20.108		
2,400.0	2,393.0	2,394.2	2,393.8	5.0	4.2	169.24	-30.2	-15.5	170.5	162.1	8.39	20.330		
2,500.0	2,492.5	2,493.8	2,493.4	5.3	4.4	169.44	-31.3	-14.9	179.4	170.7	8.74	20.535		
2,600.0	2,592.1	2,593.4	2,593.0	5.5	4.5	169.62	-32.5	-14.4	188.3	179.2	9.09	20.724		
2,700.0	2,691.6	2,693.0	2,692.6	5.7	4.7	169.78	-33.6	-13.8	197.3	187.8	9.44	20.899		
2,800.0	2,791.2	2,792.6	2,792.2	6.0	4.9	169.93	-34.7	-13.2	206.2	196.4	9.79	21.062		
2,900.0	2,890.7	2,892.2	2,891.8	6.2	5.1	170.07	-35.8	-12.7	215.1	205.0	10.14	21.214		
3,000.0	2,990.2	2,991.8	2,991.3	6.5	5.2	170.19	-36.9	-12.1	224.0	213.5	10.49	21.356		
3,100.0	3,089.8	3,091.4	3,090.9	6.7	5.4	170.31	-38.0	-11.5	232.9	222.1	10.84	21.489		
3,200.0	3,189.3	3,191.0	3,190.5	6.9	5.6	170.41	-39.2	-11.0	241.9	230.7	11.19	21.613		
3,300.0	3,288.9	3,290.6	3,290.1	7.2	5.8	170.51	-40.3	-10.4	250.8	239.2	11.54	21.730		
3,400.0	3,388.4	3,390.2	3,389.7	7.4	5.9	170.61	-41.4	-9.9	259.7	247.8	11.89	21.840		
3,500.0	3,487.9	3,489.8	3,489.3	7.7	6.1	170.69	-42.5	-9.3	268.6	256.4	12.24	21.944		
3,600.0	3,587.5	3,589.4	3,588.9	7.9	6.3	170.77	-43.6	-8.7	277.6	265.0	12.59	22.043		
3,700.0	3,687.0	3,689.0	3,688.5	8.1	6.5	170.85	-44.8	-8.2	286.5	273.6	12.94	22.136		
3,800.0	3,786.6	3,788.6	3,788.1	8.4	6.6	170.92	-45.9	-7.6	295.4	282.1	13.29	22.224		
3,900.0	3,886.1	3,888.2	3,887.7	8.6	6.8	170.99	-47.0	-7.0	304.4	290.7	13.64	22.308		
4,000.0	3,985.7	3,987.8	3,987.3	8.9	7.0	171.05	-48.1	-6.5	313.3	299.3	13.99	22.387		
4,100.0	4,085.2	4,087.4	4,086.9	9.1	7.2	171.11	-49.2	-5.9	322.2	307.9	14.34	22.463		
4,200.0	4,184.7	4,187.0	4,186.4	9.3	7.3	171.17	-50.4	-5.3	331.1	316.4	14.69	22.535		
4,300.0	4,284.3	4,286.6	4,286.0	9.6	7.5	171.22	-51.5	-4.8	340.1	325.0	15.05	22.604		
4,400.0	4,383.8	4,386.2	4,385.6	9.8	7.7	171.27	-52.6	-4.2	349.0	333.6	15.40	22.669		
4,500.0	4,483.4	4,485.8	4,485.2	10.1	7.9	171.32	-53.7	-3.6	357.9	342.2	15.75	22.732		
4,600.0	4,582.9	4,585.4	4,584.8	10.3	8.0	171.36	-54.8	-3.1	366.9	350.8	16.10	22.792		
4,700.0	4,682.5	4,685.0	4,684.4	10.5	8.2	171.41	-56.0	-2.5	375.8	359.4	16.45	22.849		
4,800.0	4,782.0	4,784.6	4,784.0	10.8	8.4	171.45	-57.1	-2.0	384.7	367.9	16.80	22.905		
4,900.0	4,881.5	4,884.2	4,883.6	11.0	8.6	171.49	-58.2	-1.4	393.7	376.5	17.15	22.957		
5,000.0	4,981.1	4,983.8	4,983.2	11.3	8.7	171.53	-59.3	-0.8	402.6	385.1	17.50	23.008		
5,100.0	5,080.6	5,083.4	5,082.8	11.5	8.9	171.56	-60.4	-0.3	411.5	393.7	17.85	23.057		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,200.0	5,180.2	5,183.0	5,182.4	11.8	9.1	171.60	-61.6	0.3	420.5	402.3	18.20	23.104	
5,300.0	5,279.7	5,282.6	5,282.0	12.0	9.3	171.63	-62.7	0.9	429.4	410.8	18.55	23.149	
5,400.0	5,379.3	5,382.2	5,381.6	12.2	9.4	171.67	-63.8	1.4	438.3	419.4	18.90	23.193	
5,500.0	5,478.8	5,481.8	5,481.1	12.5	9.6	171.70	-64.9	2.0	447.3	428.0	19.25	23.234	
5,600.0	5,578.3	5,581.4	5,580.7	12.7	9.8	171.73	-66.0	2.6	456.2	436.6	19.60	23.275	
5,700.0	5,677.9	5,681.0	5,680.3	13.0	10.0	171.75	-67.2	3.1	465.1	445.2	19.95	23.314	
5,800.0	5,777.4	5,780.6	5,779.9	13.2	10.1	171.78	-68.3	3.7	474.1	453.8	20.30	23.352	
5,900.0	5,877.0	5,880.2	5,879.5	13.4	10.3	171.81	-69.4	4.2	483.0	462.3	20.65	23.388	
6,000.0	5,976.5	5,979.8	5,979.1	13.7	10.5	171.83	-70.5	4.8	491.9	470.9	21.00	23.423	
6,100.0	6,076.1	6,079.4	6,078.7	13.9	10.7	171.86	-71.6	5.4	500.8	479.5	21.35	23.457	
6,200.0	6,175.6	6,179.0	6,178.3	14.2	10.8	171.88	-72.8	5.9	509.8	488.1	21.70	23.490	
6,300.0	6,275.1	6,278.6	6,277.9	14.4	11.0	171.90	-73.9	6.5	518.7	496.7	22.05	23.522	
6,400.0	6,374.7	6,378.2	6,377.5	14.6	11.2	171.93	-75.0	7.1	527.6	505.2	22.40	23.553	
6,500.0	6,474.2	6,477.8	6,477.1	14.9	11.4	171.95	-76.1	7.6	536.6	513.8	22.75	23.583	
6,600.0	6,573.8	6,577.4	6,576.7	15.1	11.5	171.97	-77.2	8.2	545.5	522.4	23.10	23.612	
6,700.0	6,673.3	6,677.0	6,676.2	15.4	11.7	171.99	-78.4	8.8	554.5	531.0	23.45	23.640	
6,800.0	6,772.9	6,776.6	6,775.8	15.6	11.9	172.01	-79.5	9.3	563.4	539.6	23.80	23.668	
6,900.0	6,872.4	6,876.2	6,875.4	15.9	12.1	172.03	-80.6	9.9	572.3	548.2	24.15	23.694	
7,000.0	6,971.9	6,976.5	6,975.7	16.1	12.2	-144.14	-79.1	10.4	581.3	556.8	24.49	23.739	
7,100.0	7,070.0	7,077.2	7,074.8	16.3	12.4	-112.08	-61.8	10.7	590.6	565.8	24.76	23.847	
7,200.0	7,163.9	7,177.7	7,169.1	16.5	12.5	-102.88	-27.5	10.6	599.9	574.9	25.04	23.954	
7,300.0	7,250.6	7,278.0	7,255.8	16.8	12.7	-98.36	22.6	10.2	609.1	583.7	25.42	23.962	
7,400.0	7,327.6	7,378.0	7,332.3	17.1	13.0	-95.52	86.8	9.5	617.8	591.8	25.99	23.770	
7,500.0	7,392.5	7,477.9	7,396.4	17.5	13.4	-93.52	163.3	8.5	625.7	598.9	26.85	23.300	
7,600.0	7,443.4	7,577.6	7,446.2	18.1	14.0	-92.06	249.5	7.2	632.7	604.6	28.08	22.533	
7,700.0	7,478.6	7,677.3	7,480.3	18.8	14.8	-90.99	343.0	5.8	638.5	608.8	29.68	21.516	
7,800.0	7,497.1	7,776.7	7,497.7	19.6	15.8	-90.26	440.8	4.2	642.9	611.3	31.61	20.340	
7,900.0	7,500.0	7,876.4	7,500.0	20.5	16.9	-90.00	540.4	2.5	645.9	612.1	33.81	19.105	
8,000.0	7,500.0	7,976.4	7,500.0	21.5	18.1	-90.00	640.3	0.7	648.7	612.5	36.22	17.909	
8,100.0	7,500.0	8,076.3	7,500.0	22.7	19.4	-90.00	740.2	-1.0	651.5	612.7	38.80	16.791	
8,200.0	7,500.0	8,176.3	7,500.0	23.9	20.8	-90.00	840.2	-2.8	654.3	612.8	41.52	15.760	
8,300.0	7,500.0	8,276.2	7,500.0	25.1	22.2	-90.00	940.1	-4.5	657.1	612.8	44.34	14.818	
8,400.0	7,500.0	8,376.2	7,500.0	26.4	23.6	-90.00	1,040.1	-6.3	659.9	612.6	47.26	13.963	
8,500.0	7,500.0	8,476.2	7,500.0	27.8	25.1	-90.00	1,140.0	-8.0	662.7	612.4	50.25	13.187	
8,600.0	7,500.0	8,576.1	7,500.0	29.2	26.6	-90.00	1,240.0	-9.7	665.5	612.2	53.31	12.483	
8,700.0	7,500.0	8,676.1	7,500.0	30.7	28.2	-90.00	1,339.9	-11.5	668.3	611.9	56.42	11.845	
8,800.0	7,500.0	8,776.0	7,500.0	32.1	29.8	-90.00	1,439.9	-13.2	671.1	611.5	59.57	11.265	
8,900.0	7,500.0	8,876.0	7,500.0	33.6	31.4	-90.00	1,539.8	-15.0	673.9	611.1	62.76	10.737	
9,000.0	7,500.0	8,976.0	7,500.0	35.2	33.0	-90.00	1,639.8	-16.7	676.7	610.7	65.99	10.255	
9,100.0	7,500.0	9,075.9	7,500.0	36.7	34.6	-90.00	1,739.7	-18.5	679.4	610.2	69.24	9.814	
9,200.0	7,500.0	9,170.8	7,500.0	38.3	36.2	-90.00	1,834.5	-20.3	682.4	610.1	72.34	9.434	
9,300.0	7,500.0	9,260.0	7,500.0	39.9	37.6	-90.00	1,923.7	-23.2	686.7	611.5	75.26	9.125	
9,400.0	7,500.0	9,349.1	7,500.0	41.4	39.1	-90.00	2,012.7	-27.5	692.6	614.4	78.18	8.859	
9,500.0	7,500.0	9,439.3	7,500.0	43.1	40.6	-90.00	2,102.7	-33.3	700.0	618.9	81.14	8.628	
9,600.0	7,500.0	9,539.0	7,500.0	44.7	42.3	-90.00	2,202.1	-40.2	708.0	623.6	84.47	8.383	
9,700.0	7,500.0	9,638.6	7,500.0	46.3	43.9	-90.00	2,301.6	-47.2	716.1	628.3	87.81	8.155	
9,800.0	7,500.0	9,738.3	7,500.0	47.9	45.6	-90.00	2,401.0	-54.1	724.1	632.9	91.16	7.943	
9,900.0	7,500.0	9,838.0	7,500.0	49.6	47.3	-90.00	2,500.5	-61.1	732.1	637.6	94.53	7.745	
10,000.0	7,500.0	9,937.7	7,500.0	51.2	49.0	-90.00	2,599.9	-68.0	740.1	642.2	97.90	7.560	
10,100.0	7,500.0	10,037.4	7,500.0	52.9	50.7	-90.00	2,699.3	-75.0	747.9	646.6	101.29	7.384	
10,200.0	7,500.0	10,137.2	7,500.0	54.5	52.4	-90.00	2,798.9	-81.9	754.2	649.5	104.69	7.204	
10,300.0	7,500.0	10,237.1	7,500.0	56.2	54.1	-90.00	2,898.6	-88.9	758.7	650.6	108.09	7.019	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,500.0	10,337.0	7,500.0	57.8	55.8	-90.00	2,998.3	-95.9	761.4	649.9	111.51	6.829		
10,500.0	7,500.0	10,437.0	7,500.0	59.5	57.5	-90.00	3,098.0	-102.9	762.5	647.5	114.93	6.634		
10,600.0	7,500.0	10,537.0	7,500.0	61.1	59.2	-90.00	3,197.8	-109.8	761.7	643.4	118.36	6.436		
10,700.0	7,500.0	10,638.4	7,500.0	62.8	61.0	-90.00	3,298.9	-116.9	759.3	637.4	121.85	6.231		
10,800.0	7,500.0	10,753.4	7,500.0	64.4	62.9	-90.00	3,413.7	-123.6	753.9	628.0	125.85	5.990		
10,900.0	7,500.0	10,868.0	7,500.0	66.1	64.9	-90.00	3,528.3	-127.9	744.7	614.9	129.80	5.737		
11,000.0	7,500.0	10,982.0	7,500.0	67.7	66.9	-90.00	3,642.2	-129.9	732.6	598.9	133.68	5.480		
11,100.0	7,500.0	11,086.3	7,500.0	69.4	68.7	-90.00	3,746.5	-130.2	718.9	581.6	137.26	5.238		
11,200.0	7,500.0	11,185.3	7,500.0	71.1	70.4	-90.00	3,845.5	-130.3	705.0	564.4	140.68	5.012		
11,300.0	7,500.0	11,284.4	7,500.0	72.7	72.1	-90.00	3,944.6	-130.3	691.4	547.3	144.11	4.798		
11,400.0	7,500.0	11,383.6	7,500.0	74.4	73.8	-90.00	4,043.8	-130.4	679.1	531.6	147.54	4.603		
11,500.0	7,500.0	11,483.0	7,500.0	76.1	75.5	-90.00	4,143.2	-130.5	668.6	517.6	150.99	4.428		
11,600.0	7,500.0	11,582.7	7,500.0	77.8	77.2	-90.00	4,242.9	-130.6	659.8	505.4	154.44	4.272		
11,700.0	7,500.0	11,682.4	7,500.0	79.5	78.9	-90.00	4,342.6	-130.7	652.8	494.9	157.89	4.134		
11,800.0	7,500.0	11,782.3	7,500.0	81.2	80.7	-90.00	4,442.5	-130.7	647.5	486.1	161.36	4.013		
11,900.0	7,500.0	11,882.2	7,500.0	82.9	82.4	-90.00	4,542.4	-130.8	643.9	479.1	164.82	3.907		
12,000.0	7,500.0	11,982.2	7,500.0	84.7	84.1	-90.00	4,642.4	-130.9	642.1	473.8	168.28	3.816		
12,053.8	7,500.0	12,036.0	7,500.0	85.6	85.1	-90.00	4,696.2	-130.9	641.8	471.7	170.15	3.772		
12,100.0	7,500.0	12,082.2	7,500.0	86.4	85.9	-90.00	4,742.4	-131.0	642.0	470.3	171.75	3.738		
12,200.0	7,500.0	12,182.2	7,500.0	88.1	87.6	-90.00	4,842.4	-131.1	643.6	468.4	175.22	3.673		
12,300.0	7,500.0	12,282.1	7,500.0	89.8	89.3	-90.00	4,942.3	-131.2	645.7	467.0	178.69	3.613		
12,400.0	7,500.0	12,382.1	7,500.0	91.6	91.1	-90.00	5,042.3	-131.2	647.7	465.6	182.16	3.556		
12,500.0	7,500.0	12,482.1	7,500.0	93.3	92.8	-90.00	5,142.3	-131.3	649.8	464.2	185.63	3.500		
12,600.0	7,500.0	12,582.1	7,500.0	95.0	94.5	-90.00	5,242.3	-131.4	651.9	462.7	189.11	3.447		
12,700.0	7,500.0	12,682.1	7,500.0	96.8	96.3	-90.00	5,342.3	-131.5	653.9	461.3	192.58	3.395		
12,800.0	7,500.0	12,782.0	7,500.0	98.5	98.0	-90.00	5,442.2	-131.6	656.0	459.9	196.06	3.346		
12,900.0	7,500.0	12,882.0	7,500.0	100.2	99.8	-90.00	5,542.2	-131.6	658.0	458.5	199.54	3.298		
13,000.0	7,500.0	12,982.0	7,500.0	102.0	101.5	-90.00	5,642.2	-131.7	660.1	457.0	203.02	3.251		
13,100.0	7,500.0	13,082.0	7,500.0	103.7	103.2	-90.00	5,742.2	-131.8	662.1	455.6	206.50	3.206		
13,200.0	7,500.0	13,182.0	7,500.0	105.4	105.0	-90.00	5,842.2	-131.9	664.2	454.2	209.98	3.163		
13,300.0	7,500.0	13,281.9	7,500.0	107.2	106.7	-90.00	5,942.1	-132.0	666.2	452.8	213.46	3.121		
13,400.0	7,500.0	13,381.9	7,500.0	108.9	108.5	-90.00	6,042.1	-132.1	668.3	451.3	216.94	3.080		
13,500.0	7,500.0	13,481.9	7,500.0	110.7	110.2	-90.00	6,142.1	-132.1	670.3	449.9	220.43	3.041		
13,600.0	7,500.0	13,581.9	7,500.0	112.4	111.9	-90.00	6,242.1	-132.2	672.4	448.5	223.91	3.003		
13,700.0	7,500.0	13,681.9	7,500.0	114.1	113.7	-90.00	6,342.1	-132.3	674.4	447.1	227.39	2.966		
13,800.0	7,500.0	13,781.8	7,500.0	115.9	115.4	-90.00	6,442.0	-132.4	676.5	445.6	230.88	2.930		
13,900.0	7,500.0	13,881.8	7,500.0	117.6	117.2	-90.00	6,542.0	-132.5	678.6	444.2	234.37	2.895		
14,000.0	7,500.0	13,981.8	7,500.0	119.4	118.9	-90.00	6,642.0	-132.5	680.6	442.8	237.85	2.861		
14,100.0	7,500.0	14,081.8	7,500.0	121.1	120.7	-90.00	6,742.0	-132.6	682.7	441.3	241.34	2.829		
14,200.0	7,500.0	14,181.7	7,500.0	122.8	122.4	-90.00	6,841.9	-132.7	684.7	439.9	244.83	2.797		
14,300.0	7,500.0	14,281.7	7,500.0	124.6	124.1	-90.00	6,941.9	-132.8	686.8	438.5	248.32	2.766		
14,400.0	7,500.0	14,381.7	7,500.0	126.3	125.9	-90.00	7,041.9	-132.9	688.8	437.0	251.80	2.736		
14,458.1	7,500.0	14,422.5	7,500.0	127.3	126.6	-90.00	7,082.7	-132.9	690.2	437.0	253.26	2.725 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #5												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-7.6	7.6	7.3	0.30	24.883		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-7.6	7.6	6.9	0.65	11.577		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-7.6	7.6	6.6	1.00	7.543		
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-7.6	7.6	6.2	1.35	5.594		
500.0	500.0	500.0	500.0	0.8	0.8	-90.00	0.0	-7.6	7.6	5.9	1.70	4.445 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	174.49	0.0	-7.6	8.4	6.4	2.05	4.112		
700.0	700.0	700.1	700.1	1.2	1.2	175.42	-0.1	-6.7	10.2	7.8	2.40	4.238		
800.0	799.9	800.3	800.3	1.4	1.4	176.05	-0.4	-4.1	11.9	9.2	2.75	4.332		
900.0	899.7	900.5	900.4	1.6	1.6	176.49	-0.9	0.3	13.6	10.5	3.10	4.405		
1,000.0	999.4	1,000.5	1,000.2	1.8	1.7	176.94	-1.5	5.7	16.0	12.5	3.44	4.640		
1,100.0	1,098.9	1,100.5	1,100.0	2.0	1.9	177.48	-2.1	11.2	19.8	16.0	3.79	5.224		
1,200.0	1,198.5	1,200.4	1,199.8	2.2	2.1	177.87	-2.7	16.7	23.9	19.7	4.14	5.759		
1,300.0	1,298.0	1,300.3	1,299.6	2.4	2.3	178.14	-3.3	22.2	27.9	23.4	4.49	6.211		
1,400.0	1,397.6	1,400.2	1,399.3	2.7	2.5	178.34	-3.9	27.7	31.9	27.1	4.84	6.598		
1,500.0	1,497.1	1,500.1	1,499.1	2.9	2.7	178.50	-4.5	33.2	36.0	30.8	5.19	6.932		
1,600.0	1,596.6	1,600.1	1,598.8	3.1	2.9	178.63	-5.1	38.6	40.0	34.5	5.54	7.225		
1,700.0	1,696.2	1,700.0	1,698.6	3.4	3.1	178.73	-5.7	44.1	44.1	38.2	5.89	7.483		
1,800.0	1,795.7	1,799.9	1,798.4	3.6	3.3	178.82	-6.3	49.6	48.1	41.9	6.24	7.712		
1,900.0	1,895.3	1,899.8	1,898.1	3.8	3.5	178.89	-6.9	55.1	52.2	45.6	6.59	7.917		
2,000.0	1,994.8	1,999.7	1,997.9	4.1	3.7	178.95	-7.6	60.6	56.2	49.3	6.94	8.102		
2,100.0	2,094.4	2,099.6	2,097.7	4.3	3.9	179.00	-8.2	66.1	60.2	53.0	7.29	8.268		
2,200.0	2,193.9	2,199.6	2,197.4	4.5	4.1	179.05	-8.8	71.5	64.3	56.7	7.64	8.420		
2,300.0	2,293.4	2,299.5	2,297.2	4.8	4.3	179.09	-9.4	77.0	68.3	60.4	7.98	8.558		
2,400.0	2,393.0	2,399.4	2,397.0	5.0	4.5	179.13	-10.0	82.5	72.4	64.0	8.33	8.685		
2,500.0	2,492.5	2,499.3	2,496.7	5.3	4.7	179.16	-10.6	88.0	76.4	67.7	8.68	8.801		
2,600.0	2,592.1	2,599.2	2,596.5	5.5	4.9	179.19	-11.2	93.5	80.5	71.4	9.03	8.909		
2,700.0	2,691.6	2,699.2	2,696.3	5.7	5.1	179.22	-11.8	98.9	84.5	75.1	9.38	9.008		
2,800.0	2,791.2	2,799.1	2,796.0	6.0	5.3	179.24	-12.4	104.4	88.6	78.8	9.73	9.100		
2,900.0	2,890.7	2,899.0	2,895.8	6.2	5.5	179.26	-13.0	109.9	92.6	82.5	10.08	9.186		
3,000.0	2,990.2	2,998.9	2,995.6	6.5	5.7	179.28	-13.6	115.4	96.6	86.2	10.43	9.267		
3,100.0	3,089.8	3,098.8	3,095.3	6.7	5.9	179.30	-14.2	120.9	100.7	89.9	10.78	9.342		
3,200.0	3,189.3	3,198.7	3,195.1	6.9	6.1	179.32	-14.9	126.4	104.7	93.6	11.13	9.412		
3,300.0	3,288.9	3,298.7	3,294.9	7.2	6.3	179.34	-15.5	131.8	108.8	97.3	11.48	9.478		
3,400.0	3,388.4	3,398.6	3,394.6	7.4	6.5	179.35	-16.1	137.3	112.8	101.0	11.83	9.540		
3,500.0	3,487.9	3,498.5	3,494.4	7.7	6.7	179.36	-16.7	142.8	116.9	104.7	12.17	9.599		
3,600.0	3,587.5	3,598.4	3,594.2	7.9	6.9	179.38	-17.3	148.3	120.9	108.4	12.52	9.654		
3,700.0	3,687.0	3,698.3	3,693.9	8.1	7.0	179.39	-17.9	153.8	124.9	112.1	12.87	9.706		
3,800.0	3,786.6	3,798.3	3,793.7	8.4	7.2	179.40	-18.5	159.3	129.0	115.8	13.22	9.756		
3,900.0	3,886.1	3,898.2	3,893.5	8.6	7.4	179.41	-19.1	164.7	133.0	119.5	13.57	9.803		
4,000.0	3,985.7	3,998.1	3,993.2	8.9	7.6	179.42	-19.7	170.2	137.1	123.2	13.92	9.847		
4,100.0	4,085.2	4,098.0	4,093.0	9.1	7.8	179.43	-20.3	175.7	141.1	126.9	14.27	9.890		
4,200.0	4,184.7	4,197.9	4,192.8	9.3	8.0	179.44	-20.9	181.2	145.2	130.5	14.62	9.930		
4,300.0	4,284.3	4,297.8	4,292.5	9.6	8.2	179.45	-21.5	186.7	149.2	134.2	14.97	9.969		
4,400.0	4,383.8	4,397.8	4,392.3	9.8	8.4	179.46	-22.2	192.2	153.3	137.9	15.32	10.006		
4,500.0	4,483.4	4,497.7	4,492.1	10.1	8.6	179.46	-22.8	197.6	157.3	141.6	15.67	10.041		
4,600.0	4,582.9	4,597.6	4,591.8	10.3	8.8	179.47	-23.4	203.1	161.3	145.3	16.01	10.074		
4,700.0	4,682.5	4,697.5	4,691.6	10.5	9.0	179.48	-24.0	208.6	165.4	149.0	16.36	10.107		
4,800.0	4,782.0	4,797.4	4,791.4	10.8	9.2	179.48	-24.6	214.1	169.4	152.7	16.71	10.137		
4,900.0	4,881.5	4,897.4	4,891.1	11.0	9.4	179.49	-25.2	219.6	173.5	156.4	17.06	10.167		
5,000.0	4,981.1	4,997.3	4,990.9	11.3	9.6	179.50	-25.8	225.1	177.5	160.1	17.41	10.195		
5,100.0	5,080.6	5,097.2	5,090.7	11.5	9.8	179.50	-26.4	230.5	181.6	163.8	17.76	10.223		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #5											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,180.2	5,197.1	5,190.4	11.8	10.0	179.51	-27.0	236.0	185.6	167.5	18.11	10.249	
5,300.0	5,279.7	5,297.0	5,290.2	12.0	10.2	179.51	-27.6	241.5	189.6	171.2	18.46	10.274	
5,400.0	5,379.3	5,396.9	5,390.0	12.2	10.4	179.52	-28.2	247.0	193.7	174.9	18.81	10.298	
5,500.0	5,478.8	5,496.9	5,489.7	12.5	10.6	179.52	-28.8	252.5	197.7	178.6	19.16	10.322	
5,600.0	5,578.3	5,596.8	5,589.5	12.7	10.8	179.53	-29.4	257.9	201.8	182.3	19.51	10.344	
5,700.0	5,677.9	5,696.7	5,689.2	13.0	11.0	179.53	-30.1	263.4	205.8	186.0	19.85	10.366	
5,800.0	5,777.4	5,796.6	5,789.0	13.2	11.2	179.54	-30.7	268.9	209.9	189.7	20.20	10.387	
5,900.0	5,877.0	5,896.5	5,888.8	13.4	11.4	179.54	-31.3	274.4	213.9	193.4	20.55	10.408	
6,000.0	5,976.5	5,996.5	5,988.5	13.7	11.6	179.54	-31.9	279.9	218.0	197.0	20.90	10.427	
6,100.0	6,076.1	6,096.4	6,088.3	13.9	11.8	179.55	-32.5	285.4	222.0	200.7	21.25	10.446	
6,200.0	6,175.6	6,196.3	6,188.1	14.2	12.0	179.55	-33.1	290.8	226.0	204.4	21.60	10.465	
6,300.0	6,275.1	6,296.2	6,287.8	14.4	12.2	179.55	-33.7	296.3	230.1	208.1	21.95	10.482	
6,400.0	6,374.7	6,396.1	6,387.6	14.6	12.4	179.56	-34.3	301.8	234.1	211.8	22.30	10.500	
6,500.0	6,474.2	6,496.0	6,487.4	14.9	12.6	179.56	-34.9	307.3	238.2	215.5	22.65	10.516	
6,600.0	6,573.8	6,596.0	6,587.1	15.1	12.8	179.56	-35.5	312.8	242.2	219.2	23.00	10.532	
6,700.0	6,673.3	6,695.9	6,686.9	15.4	13.0	179.57	-36.1	318.3	246.3	222.9	23.35	10.548	
6,800.0	6,772.9	6,795.8	6,786.7	15.6	13.2	179.57	-36.7	323.7	250.3	226.6	23.70	10.563	
6,900.0	6,872.4	6,895.7	6,886.4	15.9	13.4	179.57	-37.4	329.2	254.3	230.3	24.04	10.578	
7,000.0	6,971.9	6,995.6	6,986.2	16.1	13.6	-137.37	-38.0	334.7	258.2	233.8	24.39	10.585	
7,100.0	7,070.0	7,094.0	7,084.4	16.3	13.8	-109.70	-38.6	340.1	261.4	236.6	24.76	10.558	
7,200.0	7,163.9	7,188.6	7,178.9	16.5	14.0	-107.85	-38.9	345.3	266.7	241.5	25.19	10.586	
7,300.0	7,250.6	7,287.6	7,277.0	16.8	14.2	-111.36	-28.4	350.5	277.4	251.8	25.67	10.809	
7,400.0	7,327.6	7,394.6	7,379.4	17.1	14.4	-115.91	1.7	355.6	293.0	267.0	25.96	11.288	
7,500.0	7,392.5	7,511.6	7,482.8	17.5	14.6	-120.42	55.9	360.3	311.8	285.9	25.87	12.052	
7,600.0	7,443.4	7,640.3	7,581.3	18.1	15.1	-124.42	138.2	364.3	331.5	306.0	25.48	13.008	
7,700.0	7,478.6	7,781.9	7,665.5	18.8	15.8	-127.58	251.6	366.9	349.6	324.3	25.29	13.824	
7,800.0	7,497.1	7,935.6	7,722.5	19.6	17.0	-129.65	393.8	367.6	363.6	337.4	26.23	13.862	
7,900.0	7,500.0	8,090.0	7,740.0	20.5	18.5	-130.36	546.7	365.8	370.7	341.8	28.90	12.828	
8,000.0	7,500.0	8,189.9	7,740.0	21.5	19.6	-130.08	646.6	364.1	372.8	342.0	30.77	12.116	
8,100.0	7,500.0	8,289.9	7,740.0	22.7	20.8	-129.81	746.6	362.4	375.0	342.2	32.78	11.439	
8,200.0	7,500.0	8,389.8	7,740.0	23.9	22.1	-129.54	846.5	360.6	377.1	342.2	34.91	10.804	
8,300.0	7,500.0	8,489.8	7,740.0	25.1	23.4	-129.27	946.5	358.9	379.3	342.1	37.13	10.213	
8,400.0	7,500.0	8,589.8	7,740.0	26.4	24.8	-129.00	1,046.4	357.1	381.4	342.0	39.45	9.668	
8,500.0	7,500.0	8,689.7	7,740.0	27.8	26.2	-128.74	1,146.4	355.4	383.6	341.8	41.85	9.167	
8,600.0	7,500.0	8,789.7	7,740.0	29.2	27.7	-128.48	1,246.3	353.6	385.8	341.5	44.31	8.707	
8,700.0	7,500.0	8,889.6	7,740.0	30.7	29.2	-128.22	1,346.3	351.9	388.0	341.1	46.83	8.285	
8,800.0	7,500.0	8,989.6	7,740.0	32.1	30.7	-127.97	1,446.2	350.1	390.2	340.8	49.41	7.897	
8,900.0	7,500.0	9,089.6	7,740.0	33.6	32.3	-127.72	1,546.2	348.4	392.4	340.4	52.03	7.541	
9,000.0	7,500.0	9,189.5	7,740.0	35.2	33.8	-127.47	1,646.1	346.7	394.6	339.9	54.70	7.214	
9,100.0	7,500.0	9,289.5	7,740.0	36.7	35.4	-127.23	1,746.0	344.9	396.8	339.4	57.41	6.912	
9,200.0	7,500.0	9,389.4	7,740.0	38.3	37.0	-126.98	1,846.0	343.2	399.0	338.9	60.15	6.634	
9,300.0	7,500.0	9,489.4	7,740.0	39.9	38.6	-126.74	1,945.9	341.4	401.3	338.4	62.92	6.377	
9,400.0	7,500.0	9,589.4	7,740.0	41.4	40.3	-126.51	2,045.9	339.7	403.5	337.8	65.73	6.139	
9,500.0	7,500.0	9,689.3	7,740.0	43.1	41.9	-126.27	2,145.8	337.9	405.8	337.2	68.57	5.918	
9,600.0	7,500.0	9,789.3	7,740.0	44.7	43.6	-126.04	2,245.8	336.2	408.0	336.6	71.43	5.712	
9,700.0	7,500.0	9,889.2	7,740.0	46.3	45.2	-125.81	2,345.7	334.4	410.3	336.0	74.31	5.521	
9,800.0	7,500.0	9,989.2	7,740.0	47.9	46.9	-125.58	2,445.7	332.7	412.5	335.3	77.22	5.342	
9,900.0	7,500.0	10,089.2	7,740.0	49.6	48.5	-125.36	2,545.6	331.0	414.8	334.7	80.15	5.175	
10,000.0	7,500.0	10,189.1	7,740.0	51.2	50.2	-125.14	2,645.6	329.2	417.1	334.0	83.11	5.019	
10,100.0	7,500.0	10,289.1	7,740.0	52.9	51.9	-124.93	2,745.5	327.5	419.2	333.1	86.06	4.871	
10,200.0	7,500.0	10,389.1	7,740.0	54.5	53.6	-124.85	2,845.5	325.7	420.0	331.1	88.92	4.724	
10,300.0	7,500.0	10,489.1	7,740.0	56.2	55.3	-124.91	2,945.5	324.0	419.4	327.8	91.66	4.576	

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 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #5													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,500.0	10,589.1	7,740.0	57.8	57.0	-125.11	3,045.4	322.2	417.4	323.2	94.25	4.429		
10,500.0	7,500.0	10,689.0	7,740.0	59.5	58.7	-125.47	3,145.3	320.5	414.0	317.3	96.68	4.282		
10,600.0	7,500.0	10,788.8	7,740.0	61.1	60.4	-125.98	3,245.1	318.7	409.1	310.2	98.93	4.136		
10,700.0	7,500.0	10,888.5	7,740.0	62.8	62.1	-126.66	3,344.8	317.0	402.9	302.0	100.95	3.992		
10,800.0	7,500.0	10,988.0	7,740.0	64.4	63.8	-127.52	3,444.3	315.3	395.4	292.7	102.70	3.850		
10,900.0	7,500.0	11,087.4	7,740.0	66.1	65.5	-128.58	3,543.7	313.5	386.6	282.4	104.12	3.713		
11,000.0	7,500.0	11,186.7	7,740.0	67.7	67.1	-129.74	3,642.9	311.8	377.1	271.8	105.25	3.583		
11,100.0	7,500.0	11,285.9	7,740.0	69.4	68.8	-130.95	3,742.2	310.1	367.8	261.6	106.18	3.464		
11,200.0	7,500.0	11,385.2	7,740.0	71.1	70.6	-132.22	3,841.4	308.3	358.6	251.8	106.88	3.355		
11,300.0	7,500.0	11,484.5	7,740.0	72.7	72.3	-133.51	3,940.7	306.6	349.8	242.4	107.37	3.258		
11,400.0	7,500.0	11,583.9	7,740.0	74.4	74.0	-134.68	4,040.1	304.9	342.1	234.3	107.87	3.172		
11,500.0	7,500.0	11,683.5	7,740.0	76.1	75.7	-135.70	4,139.7	303.1	335.9	227.4	108.52	3.095		
11,600.0	7,500.0	11,783.2	7,740.0	77.8	77.4	-136.54	4,239.4	301.4	330.9	221.6	109.36	3.026		
11,700.0	7,500.0	11,883.1	7,740.0	79.5	79.1	-137.20	4,339.3	299.6	327.3	216.8	110.49	2.962		
11,800.0	7,500.0	11,983.0	7,740.0	81.2	80.8	-137.65	4,439.2	297.9	324.8	212.8	111.95	2.901		
11,900.0	7,500.0	12,083.0	7,740.0	82.9	82.6	-137.89	4,539.1	296.2	323.5	209.7	113.81	2.843		
11,958.5	7,500.0	12,141.5	7,740.0	83.9	83.6	-137.93	4,597.6	295.1	323.3	208.2	115.09	2.809		
12,000.0	7,500.0	12,183.0	7,740.0	84.7	84.3	-137.91	4,639.1	294.4	323.4	207.3	116.10	2.786		
12,100.0	7,500.0	12,283.0	7,740.0	86.4	86.0	-137.71	4,739.1	292.7	324.5	205.6	118.86	2.730		
12,200.0	7,500.0	12,382.9	7,740.0	88.1	87.7	-137.29	4,839.0	290.9	326.7	204.6	122.09	2.676		
12,300.0	7,500.0	12,482.9	7,740.0	89.8	89.5	-136.82	4,938.9	289.2	329.2	203.8	125.45	2.624		
12,400.0	7,500.0	12,582.8	7,740.0	91.6	91.2	-136.35	5,038.9	287.4	331.8	203.0	128.84	2.575		
12,500.0	7,500.0	12,682.7	7,740.0	93.3	92.9	-135.89	5,138.8	285.7	334.4	202.1	132.25	2.528		
12,600.0	7,500.0	12,782.7	7,740.0	95.0	94.7	-135.44	5,238.7	283.9	337.0	201.3	135.67	2.484		
12,700.0	7,500.0	12,882.6	7,740.0	96.8	96.4	-134.99	5,338.6	282.2	339.6	200.5	139.11	2.441		
12,800.0	7,500.0	12,982.5	7,740.0	98.5	98.1	-134.55	5,438.5	280.5	342.2	199.7	142.57	2.400		
12,900.0	7,500.0	13,082.5	7,740.0	100.2	99.9	-134.12	5,538.4	278.7	344.9	198.8	146.05	2.362		
13,000.0	7,500.0	13,182.4	7,740.0	102.0	101.6	-133.69	5,638.4	277.0	347.6	198.0	149.54	2.324		
13,100.0	7,500.0	13,282.3	7,740.0	103.7	103.3	-133.27	5,738.3	275.2	350.3	197.2	153.04	2.289		
13,200.0	7,500.0	13,382.2	7,740.0	105.4	105.1	-132.86	5,838.2	273.5	353.0	196.4	156.55	2.255		
13,300.0	7,500.0	13,482.2	7,740.0	107.2	106.8	-132.45	5,938.1	271.7	355.7	195.6	160.08	2.222		
13,400.0	7,500.0	13,582.1	7,740.0	108.9	108.5	-132.05	6,038.0	270.0	358.5	194.8	163.62	2.191		
13,500.0	7,500.0	13,682.0	7,740.0	110.7	110.3	-131.65	6,137.9	268.3	361.2	194.1	167.17	2.161		
13,600.0	7,500.0	13,782.0	7,740.0	112.4	112.0	-131.27	6,237.8	266.5	364.0	193.3	170.73	2.132		
13,700.0	7,500.0	13,881.9	7,740.0	114.1	113.8	-130.88	6,337.8	264.8	366.8	192.5	174.31	2.105		
13,800.0	7,500.0	13,981.8	7,740.0	115.9	115.5	-130.51	6,437.7	263.0	369.6	191.8	177.89	2.078		
13,900.0	7,500.0	14,081.6	7,740.0	117.6	117.2	-130.14	6,537.4	261.3	372.5	191.0	181.47	2.053		
14,000.0	7,500.0	14,176.7	7,740.0	119.4	118.9	-129.70	6,632.5	258.8	376.0	191.0	184.98	2.033		
14,100.0	7,500.0	14,271.6	7,740.0	121.1	120.5	-129.13	6,727.4	254.7	380.9	192.0	188.84	2.017		
14,200.0	7,500.0	14,367.8	7,740.0	122.8	122.2	-128.42	6,823.3	249.0	387.0	193.9	193.12	2.004		
14,300.0	7,500.0	14,467.4	7,740.0	124.6	123.9	-127.67	6,922.8	242.7	393.5	195.8	197.74	1.990		
14,400.0	7,500.0	14,567.1	7,740.0	126.3	125.7	-126.95	7,022.3	236.4	400.1	197.8	202.33	1.978		
14,458.1	7,500.0	14,625.0	7,740.0	127.3	126.7	-126.54	7,080.0	232.8	404.0	199.0	204.97	1.971 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	89.94	0.0	7.6	7.6					
100.0	100.0	100.0	100.0	0.2	0.2	89.94	0.0	7.6	7.6	7.3	0.30	24.883		
200.0	200.0	200.0	200.0	0.3	0.3	89.94	0.0	7.6	7.6	6.9	0.65	11.577		
300.0	300.0	300.0	300.0	0.5	0.5	89.94	0.0	7.6	7.6	6.6	1.00	7.543		
400.0	400.0	400.0	400.0	0.7	0.7	89.94	0.0	7.6	7.6	6.2	1.35	5.594 CC, ES		
500.0	500.0	499.9	499.9	0.8	0.9	90.34	-0.1	8.4	8.4	6.7	1.70	4.958		
600.0	600.0	599.7	599.6	1.0	1.0	-5.39	-0.2	11.0	10.2	8.1	2.05	4.965		
700.0	700.0	699.5	699.3	1.2	1.2	-5.42	-0.5	15.4	11.9	9.5	2.40	4.972		
800.0	799.9	799.2	798.9	1.4	1.4	-5.74	-0.9	21.4	13.7	10.9	2.74	4.978		
900.0	899.7	899.0	898.3	1.6	1.6	-6.24	-1.5	29.2	15.4	12.3	3.09	4.984		
1,000.0	999.4	998.7	997.6	1.8	1.8	-6.86	-2.1	38.7	17.2	13.7	3.44	4.989		
1,100.0	1,098.9	1,098.3	1,096.6	2.0	2.1	-7.49	-2.9	50.0	19.1	15.3	3.79	5.055		
1,200.0	1,198.5	1,198.3	1,195.8	2.2	2.3	-7.83	-3.7	62.1	21.8	17.7	4.14	5.272		
1,300.0	1,298.0	1,298.3	1,295.0	2.4	2.6	-8.11	-4.5	74.3	24.5	20.0	4.49	5.455		
1,400.0	1,397.6	1,398.2	1,394.3	2.7	2.8	-8.32	-5.3	86.4	27.2	22.3	4.84	5.611		
1,500.0	1,497.1	1,498.2	1,493.5	2.9	3.1	-8.50	-6.2	98.6	29.8	24.7	5.19	5.746		
1,600.0	1,596.6	1,598.2	1,592.7	3.1	3.4	-8.65	-7.0	110.7	32.5	27.0	5.55	5.863		
1,700.0	1,696.2	1,698.1	1,691.9	3.4	3.6	-8.78	-7.8	122.9	35.2	29.3	5.90	5.966		
1,800.0	1,795.7	1,798.1	1,791.1	3.6	3.9	-8.89	-8.7	135.0	37.9	31.6	6.25	6.057		
1,900.0	1,895.3	1,898.0	1,890.4	3.8	4.2	-8.98	-9.5	147.2	40.6	34.0	6.61	6.139		
2,000.0	1,994.8	1,998.0	1,989.6	4.1	4.4	-9.07	-10.3	159.3	43.2	36.3	6.96	6.212		
2,100.0	2,094.4	2,098.0	2,088.8	4.3	4.7	-9.14	-11.1	171.5	45.9	38.6	7.32	6.278		
2,200.0	2,193.9	2,197.9	2,188.0	4.5	5.0	-9.20	-12.0	183.6	48.6	40.9	7.67	6.338		
2,300.0	2,293.4	2,297.9	2,287.2	4.8	5.3	-9.26	-12.8	195.8	51.3	43.3	8.02	6.392		
2,400.0	2,393.0	2,397.9	2,386.5	5.0	5.5	-9.32	-13.6	207.9	54.0	45.6	8.38	6.442		
2,500.0	2,492.5	2,497.8	2,485.7	5.3	5.8	-9.36	-14.4	220.1	56.6	47.9	8.73	6.488		
2,600.0	2,592.1	2,597.8	2,584.9	5.5	6.1	-9.41	-15.3	232.2	59.3	50.2	9.08	6.530		
2,700.0	2,691.6	2,697.8	2,684.1	5.7	6.3	-9.45	-16.1	244.4	62.0	52.6	9.44	6.569		
2,800.0	2,791.2	2,797.7	2,783.3	6.0	6.6	-9.48	-16.9	256.6	64.7	54.9	9.79	6.606		
2,900.0	2,890.7	2,897.7	2,882.6	6.2	6.9	-9.52	-17.7	268.7	67.4	57.2	10.15	6.639		
3,000.0	2,990.2	2,997.7	2,981.8	6.5	7.2	-9.55	-18.6	280.9	70.0	59.5	10.50	6.670		
3,100.0	3,089.8	3,097.6	3,081.0	6.7	7.4	-9.57	-19.4	293.0	72.7	61.9	10.85	6.700		
3,200.0	3,189.3	3,197.6	3,180.2	6.9	7.7	-9.60	-20.2	305.2	75.4	64.2	11.21	6.727		
3,300.0	3,288.9	3,297.5	3,279.4	7.2	8.0	-9.63	-21.0	317.3	78.1	66.5	11.56	6.753		
3,400.0	3,388.4	3,397.5	3,378.6	7.4	8.3	-9.65	-21.9	329.5	80.8	68.8	11.92	6.777		
3,500.0	3,487.9	3,497.5	3,477.9	7.7	8.5	-9.67	-22.7	341.6	83.4	71.2	12.27	6.800		
3,600.0	3,587.5	3,597.4	3,577.1	7.9	8.8	-9.69	-23.5	353.8	86.1	73.5	12.63	6.821		
3,700.0	3,687.0	3,697.4	3,676.3	8.1	9.1	-9.71	-24.3	365.9	88.8	75.8	12.98	6.842		
3,800.0	3,786.6	3,797.4	3,775.5	8.4	9.4	-9.73	-25.2	378.1	91.5	78.2	13.33	6.861		
3,900.0	3,886.1	3,897.3	3,874.7	8.6	9.6	-9.74	-26.0	390.2	94.2	80.5	13.69	6.879		
4,000.0	3,985.7	3,997.3	3,974.0	8.9	9.9	-9.76	-26.8	402.4	96.8	82.8	14.04	6.896		
4,100.0	4,085.2	4,097.3	4,073.2	9.1	10.2	-9.78	-27.6	414.5	99.5	85.1	14.40	6.913		
4,200.0	4,184.7	4,197.2	4,172.4	9.3	10.5	-9.79	-28.5	426.7	102.2	87.5	14.75	6.928		
4,300.0	4,284.3	4,297.2	4,271.6	9.6	10.7	-9.80	-29.3	438.8	104.9	89.8	15.11	6.943		
4,400.0	4,383.8	4,397.1	4,370.8	9.8	11.0	-9.82	-30.1	451.0	107.6	92.1	15.46	6.957		
4,500.0	4,483.4	4,497.1	4,470.1	10.1	11.3	-9.83	-30.9	463.1	110.2	94.4	15.81	6.971		
4,600.0	4,582.9	4,597.1	4,569.3	10.3	11.6	-9.84	-31.8	475.3	112.9	96.8	16.17	6.984		
4,700.0	4,682.5	4,697.0	4,668.5	10.5	11.8	-9.85	-32.6	487.5	115.6	99.1	16.52	6.996		
4,800.0	4,782.0	4,797.0	4,767.7	10.8	12.1	-9.86	-33.4	499.6	118.3	101.4	16.88	7.008		
4,900.0	4,881.5	4,897.0	4,866.9	11.0	12.4	-9.87	-34.2	511.8	121.0	103.7	17.23	7.020		
5,000.0	4,981.1	4,996.9	4,966.2	11.3	12.7	-9.88	-35.1	523.9	123.6	106.1	17.59	7.031		
5,100.0	5,080.6	5,096.9	5,065.4	11.5	12.9	-9.89	-35.9	536.1	126.3	108.4	17.94	7.041		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,180.2	5,196.9	5,164.6	11.8	13.2	-9.90	-36.7	548.2	129.0	110.7	18.30	7.051	
5,300.0	5,279.7	5,296.8	5,263.8	12.0	13.5	-9.91	-37.6	560.4	131.7	113.0	18.65	7.061	
5,400.0	5,379.3	5,396.8	5,363.0	12.2	13.8	-9.92	-38.4	572.5	134.4	115.4	19.00	7.070	
5,500.0	5,478.8	5,496.8	5,462.3	12.5	14.0	-9.92	-39.2	584.7	137.0	117.7	19.36	7.079	
5,600.0	5,578.3	5,596.7	5,561.5	12.7	14.3	-9.93	-40.0	596.8	139.7	120.0	19.71	7.088	
5,700.0	5,677.9	5,696.7	5,660.7	13.0	14.6	-9.94	-40.9	609.0	142.4	122.3	20.07	7.096	
5,800.0	5,777.4	5,796.6	5,759.9	13.2	14.9	-9.95	-41.7	621.1	145.1	124.7	20.42	7.104	
5,900.0	5,877.0	5,896.6	5,859.1	13.4	15.1	-9.95	-42.5	633.3	147.8	127.0	20.78	7.112	
6,000.0	5,976.5	5,996.6	5,958.3	13.7	15.4	-9.96	-43.3	645.4	150.5	129.3	21.13	7.120	
6,100.0	6,076.1	6,096.5	6,057.6	13.9	15.7	-9.97	-44.2	657.6	153.1	131.6	21.49	7.127	
6,200.0	6,175.6	6,196.5	6,156.8	14.2	16.0	-9.97	-45.0	669.7	155.8	134.0	21.84	7.134	
6,300.0	6,275.1	6,296.5	6,256.0	14.4	16.2	-9.98	-45.8	681.9	158.5	136.3	22.19	7.141	
6,400.0	6,374.7	6,396.4	6,355.2	14.6	16.5	-9.98	-46.6	694.0	161.2	138.6	22.55	7.147	
6,500.0	6,474.2	6,496.4	6,454.4	14.9	16.8	-9.99	-47.5	706.2	163.9	140.9	22.90	7.154	
6,600.0	6,573.8	6,596.4	6,553.7	15.1	17.1	-9.99	-48.3	718.3	166.5	143.3	23.26	7.160	
6,700.0	6,673.3	6,696.3	6,652.9	15.4	17.3	-10.00	-49.1	730.5	169.2	145.6	23.61	7.166	
6,800.0	6,772.9	6,796.3	6,752.1	15.6	17.6	-10.00	-49.9	742.7	171.9	147.9	23.97	7.172	
6,900.0	6,872.4	6,896.2	6,851.3	15.9	17.9	-10.01	-50.8	754.8	174.6	150.3	24.32	7.178	
7,000.0	6,971.9	6,996.2	6,950.5	16.1	18.2	33.83	-51.6	767.0	177.1	152.5	24.63	7.191	
7,100.0	7,070.0	7,094.6	7,048.2	16.3	18.4	69.90	-52.4	778.9	179.4	154.6	24.76	7.245	
7,200.0	7,163.9	7,188.6	7,141.5	16.5	18.7	87.16	-53.2	790.3	185.9	160.4	25.47	7.297	
7,300.0	7,250.6	7,286.7	7,238.7	16.8	19.0	101.69	-49.3	802.2	202.3	174.7	27.54	7.346	
7,400.0	7,327.6	7,397.2	7,345.7	17.1	19.3	113.36	-25.6	815.1	226.2	196.4	29.85	7.579	
7,500.0	7,392.5	7,521.1	7,457.8	17.5	19.6	122.51	24.9	828.4	253.7	222.6	31.16	8.143	
7,600.0	7,443.4	7,661.6	7,568.4	18.1	20.0	129.52	109.9	841.2	280.7	249.8	30.89	9.087	
7,700.0	7,478.6	7,820.4	7,664.7	18.8	20.7	134.61	235.2	851.9	303.0	274.0	29.01	10.443	
7,800.0	7,497.1	7,995.9	7,727.0	19.6	21.8	137.76	398.4	858.1	316.6	290.4	26.26	12.057	
7,900.0	7,500.0	8,151.9	7,740.0	20.5	23.0	138.82	553.5	858.3	318.9	293.7	25.24	12.636	
8,000.0	7,500.0	8,251.9	7,740.0	21.5	23.9	139.08	653.4	857.4	317.7	290.9	26.79	11.857	
8,100.0	7,500.0	8,351.9	7,740.0	22.7	24.9	139.34	753.4	856.6	316.4	288.0	28.42	11.134	
8,200.0	7,500.0	8,451.9	7,740.0	23.9	26.0	139.61	853.4	855.7	315.2	285.0	30.10	10.469	
8,300.0	7,500.0	8,551.9	7,740.0	25.1	27.1	139.87	953.4	854.8	313.9	282.1	31.83	9.861	
8,400.0	7,500.0	8,651.8	7,740.0	26.4	28.3	140.14	1,053.4	854.0	312.7	279.1	33.60	9.306	
8,500.0	7,500.0	8,751.8	7,740.0	27.8	29.6	140.41	1,153.3	853.1	311.4	276.1	35.39	8.802	
8,600.0	7,500.0	8,851.8	7,740.0	29.2	30.9	140.69	1,253.3	852.2	310.2	273.0	37.19	8.342	
8,700.0	7,500.0	8,951.8	7,740.0	30.7	32.3	140.96	1,353.3	851.3	309.0	270.0	39.00	7.924	
8,800.0	7,500.0	9,051.8	7,740.0	32.1	33.7	141.24	1,453.3	850.5	307.8	267.0	40.81	7.543	
8,900.0	7,500.0	9,151.8	7,740.0	33.6	35.1	141.52	1,553.2	849.6	306.6	264.0	42.62	7.195	
9,000.0	7,500.0	9,251.7	7,740.0	35.2	36.6	141.80	1,653.2	848.7	305.4	261.0	44.42	6.876	
9,100.0	7,500.0	9,351.7	7,740.0	36.7	38.0	142.08	1,753.2	847.8	304.2	258.0	46.21	6.583	
9,200.0	7,500.0	9,451.7	7,740.0	38.3	39.5	142.37	1,853.2	847.0	303.1	255.1	47.99	6.315	
9,300.0	7,500.0	9,551.7	7,740.0	39.9	41.1	142.66	1,953.2	846.1	301.9	252.1	49.76	6.067	
9,400.0	7,500.0	9,651.7	7,740.0	41.4	42.6	142.95	2,053.1	845.2	300.7	249.2	51.51	5.839	
9,500.0	7,500.0	9,751.6	7,740.0	43.1	44.2	143.24	2,153.1	844.4	299.6	246.3	53.24	5.627	
9,600.0	7,500.0	9,851.6	7,740.0	44.7	45.7	143.54	2,253.1	843.5	298.4	243.5	54.95	5.431	
9,700.0	7,500.0	9,951.6	7,740.0	46.3	47.3	143.84	2,353.1	842.6	297.3	240.7	56.63	5.250	
9,800.0	7,500.0	10,051.6	7,740.0	47.9	48.9	144.14	2,453.0	841.7	296.2	237.9	58.29	5.081	
9,900.0	7,500.0	10,151.6	7,740.0	49.6	50.5	144.44	2,553.0	840.9	295.0	235.1	59.93	4.923	
10,000.0	7,500.0	10,251.6	7,740.0	51.2	52.1	144.74	2,653.0	840.0	293.9	232.4	61.54	4.776	
10,100.0	7,500.0	10,351.5	7,740.0	52.9	53.7	145.01	2,753.0	839.1	293.0	229.8	63.17	4.638	
10,158.5	7,500.0	10,410.0	7,740.0	53.9	54.7	145.05	2,811.5	838.6	292.8	228.5	64.26	4.556	
10,200.0	7,500.0	10,451.5	7,740.0	54.5	55.4	145.03	2,853.0	838.2	292.9	227.8	65.10	4.499	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,300.0	7,500.0	10,551.5	7,740.0	56.2	57.0	144.78	2,953.0	837.4	293.8	226.4	67.42	4.358	
10,400.0	7,500.0	10,651.5	7,740.0	57.8	58.7	144.27	3,052.9	836.5	295.7	225.6	70.15	4.216	
10,500.0	7,500.0	10,751.3	7,740.0	59.5	60.3	143.50	3,152.8	835.6	298.7	225.4	73.30	4.075	
10,600.0	7,500.0	10,851.1	7,740.0	61.1	62.0	142.50	3,252.5	834.8	302.9	226.0	76.89	3.939	
10,700.0	7,500.0	10,950.7	7,740.0	62.8	63.6	141.28	3,352.1	833.9	308.2	227.3	80.90	3.809	
10,800.0	7,500.0	11,050.2	7,740.0	64.4	65.3	139.87	3,451.6	833.0	314.7	229.4	85.30	3.689	
10,900.0	7,500.0	11,149.5	7,740.0	66.1	66.9	138.30	3,550.9	832.2	322.6	232.6	90.06	3.582	
11,000.0	7,500.0	11,248.6	7,740.0	67.7	68.6	136.63	3,650.0	831.3	331.5	236.5	94.98	3.490	
11,100.0	7,500.0	11,347.8	7,740.0	69.4	70.3	135.04	3,749.2	830.4	340.6	240.8	99.84	3.412	
11,200.0	7,500.0	11,444.8	7,740.0	71.1	71.9	133.54	3,846.2	829.8	350.2	245.3	104.81	3.341	
11,300.0	7,500.0	11,539.5	7,740.0	72.7	73.5	132.00	3,940.9	830.5	360.9	250.8	110.04	3.280	
11,400.0	7,500.0	11,636.1	7,740.0	74.4	75.2	130.47	4,037.5	832.6	371.8	256.8	115.06	3.232	
11,500.0	7,500.0	11,735.2	7,740.0	76.1	76.8	129.15	4,136.6	835.0	381.9	262.2	119.67	3.191	
11,600.0	7,500.0	11,834.6	7,740.0	77.8	78.5	128.05	4,235.9	837.5	390.7	266.7	123.99	3.151	
11,700.0	7,500.0	11,934.1	7,740.0	79.5	80.2	127.16	4,335.4	839.9	398.3	270.2	128.05	3.110	
11,800.0	7,500.0	12,033.8	7,740.0	81.2	81.9	126.45	4,435.1	842.3	404.6	272.7	131.88	3.068	
11,900.0	7,500.0	12,133.6	7,740.0	82.9	83.6	125.92	4,534.9	844.7	409.5	274.0	135.48	3.022	
12,000.0	7,500.0	12,233.5	7,740.0	84.7	85.4	125.55	4,634.7	847.2	413.0	274.1	138.86	2.974	
12,100.0	7,500.0	12,333.5	7,740.0	86.4	87.1	125.33	4,734.7	849.6	415.1	273.0	142.03	2.922	
12,200.0	7,500.0	12,433.5	7,740.0	88.1	88.8	125.25	4,834.6	852.0	415.8	270.8	144.99	2.868	
12,300.0	7,500.0	12,533.5	7,740.0	89.8	90.5	125.22	4,934.6	854.4	416.2	268.3	147.89	2.814	
12,400.0	7,500.0	12,633.5	7,740.0	91.6	92.2	125.18	5,034.6	856.9	416.6	265.8	150.80	2.762	
12,500.0	7,500.0	12,733.5	7,740.0	93.3	93.9	125.14	5,134.5	859.3	416.9	263.2	153.71	2.712	
12,600.0	7,500.0	12,833.5	7,740.0	95.0	95.7	125.11	5,234.5	861.7	417.3	260.7	156.63	2.664	
12,700.0	7,500.0	12,933.5	7,740.0	96.8	97.4	125.07	5,334.5	864.2	417.7	258.1	159.55	2.618	
12,800.0	7,500.0	13,033.5	7,740.0	98.5	99.1	125.04	5,434.5	866.6	418.1	255.6	162.47	2.573	
12,900.0	7,500.0	13,133.5	7,740.0	100.2	100.8	125.00	5,534.4	869.0	418.4	253.0	165.39	2.530	
13,000.0	7,500.0	13,233.5	7,740.0	102.0	102.6	124.96	5,634.4	871.5	418.8	250.5	168.32	2.488	
13,100.0	7,500.0	13,333.5	7,740.0	103.7	104.3	124.93	5,734.4	873.9	419.2	247.9	171.25	2.448	
13,200.0	7,500.0	13,433.5	7,740.0	105.4	106.0	124.89	5,834.3	876.3	419.6	245.4	174.19	2.409	
13,300.0	7,500.0	13,533.5	7,740.0	107.2	107.7	124.86	5,934.3	878.8	419.9	242.8	177.12	2.371	
13,400.0	7,500.0	13,633.5	7,740.0	108.9	109.5	124.82	6,034.3	881.2	420.3	240.3	180.06	2.334	
13,500.0	7,500.0	13,733.5	7,740.0	110.7	111.2	124.78	6,134.2	883.6	420.7	237.7	183.01	2.299	
13,600.0	7,500.0	13,833.5	7,740.0	112.4	112.9	124.75	6,234.2	886.1	421.1	235.1	185.95	2.264	
13,700.0	7,500.0	13,933.5	7,740.0	114.1	114.7	124.71	6,334.2	888.5	421.5	232.6	188.90	2.231	
13,800.0	7,500.0	14,033.5	7,740.0	115.9	116.4	124.68	6,434.2	890.9	421.8	230.0	191.85	2.199	
13,900.0	7,500.0	14,133.5	7,740.0	117.6	118.1	124.64	6,534.1	893.4	422.2	227.4	194.81	2.167	
14,000.0	7,500.0	14,233.5	7,740.0	119.4	119.9	124.61	6,634.1	895.8	422.6	224.8	197.77	2.137	
14,100.0	7,500.0	14,333.5	7,740.0	121.1	121.6	124.57	6,734.1	898.2	423.0	222.2	200.73	2.107	
14,200.0	7,500.0	14,433.5	7,740.0	122.8	123.3	124.54	6,834.0	900.6	423.3	219.7	203.69	2.078	
14,300.0	7,500.0	14,533.5	7,740.0	124.6	125.1	124.50	6,934.0	903.1	423.7	217.1	206.65	2.050	
14,400.0	7,500.0	14,633.5	7,740.0	126.3	126.8	124.47	7,034.0	905.5	424.1	214.5	209.62	2.023	
14,458.1	7,500.0	14,691.5	7,740.0	127.3	127.8	124.44	7,092.0	906.9	424.3	213.0	211.35	2.008 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	91.35	-0.4	15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	91.35	-0.4	15.1	15.1	14.8	0.30	49.780		
200.0	200.0	200.0	200.0	0.3	0.3	91.35	-0.4	15.1	15.1	14.5	0.65	23.160		
300.0	300.0	300.0	300.0	0.5	0.5	91.35	-0.4	15.1	15.1	14.1	1.00	15.090 CC, ES		
400.0	400.0	399.7	399.7	0.7	0.7	90.86	-0.2	16.0	16.0	14.6	1.35	11.833		
500.0	500.0	499.4	499.4	0.8	0.9	89.66	0.1	18.6	18.6	16.9	1.70	10.930		
600.0	600.0	599.0	598.9	1.0	1.0	-8.18	0.7	22.8	22.0	20.0	2.05	10.762		
700.0	700.0	698.5	698.2	1.2	1.2	-10.35	1.5	28.8	25.5	23.1	2.39	10.657		
800.0	799.9	798.0	797.3	1.4	1.4	-12.82	2.5	36.5	29.0	26.3	2.74	10.601		
900.0	899.7	897.4	896.3	1.6	1.7	-15.46	3.8	45.9	32.7	29.6	3.09	10.586		
1,000.0	999.4	996.7	995.0	1.8	1.9	-18.22	5.3	57.0	36.4	33.0	3.44	10.601		
1,100.0	1,098.9	1,095.9	1,093.4	2.0	2.2	-20.92	7.0	69.8	40.6	36.8	3.79	10.698		
1,200.0	1,198.5	1,195.0	1,191.4	2.2	2.5	-22.87	9.0	84.2	46.3	42.2	4.15	11.151		
1,300.0	1,298.0	1,293.9	1,288.9	2.4	2.8	-24.05	11.2	100.3	53.8	49.3	4.51	11.911		
1,400.0	1,397.6	1,392.4	1,385.8	2.7	3.1	-24.64	13.6	118.0	62.9	58.1	4.88	12.907		
1,500.0	1,497.1	1,491.3	1,482.7	2.9	3.5	-24.84	16.2	137.2	73.6	68.4	5.24	14.046		
1,600.0	1,596.6	1,590.7	1,580.2	3.1	3.9	-24.97	18.8	156.8	84.5	78.9	5.61	15.064		
1,700.0	1,696.2	1,690.1	1,677.6	3.4	4.2	-25.06	21.4	176.4	95.5	89.5	5.98	15.955		
1,800.0	1,795.7	1,789.5	1,775.0	3.6	4.6	-25.14	24.1	195.9	106.4	100.0	6.36	16.739		
1,900.0	1,895.3	1,888.9	1,872.4	3.8	5.0	-25.20	26.7	215.5	117.3	110.6	6.73	17.435		
2,000.0	1,994.8	1,988.3	1,969.8	4.1	5.4	-25.25	29.4	235.1	128.2	121.1	7.10	18.057		
2,100.0	2,094.4	2,087.7	2,067.3	4.3	5.7	-25.29	32.0	254.6	139.2	131.7	7.48	18.615		
2,200.0	2,193.9	2,187.1	2,164.7	4.5	6.1	-25.33	34.7	274.2	150.1	142.2	7.85	19.119		
2,300.0	2,293.4	2,286.5	2,262.1	4.8	6.5	-25.36	37.3	293.8	161.0	152.8	8.23	19.577		
2,400.0	2,393.0	2,385.9	2,359.5	5.0	6.9	-25.38	40.0	313.4	172.0	163.4	8.60	19.994		
2,500.0	2,492.5	2,485.3	2,456.9	5.3	7.3	-25.41	42.6	332.9	182.9	173.9	8.97	20.376		
2,600.0	2,592.1	2,584.7	2,554.4	5.5	7.7	-25.43	45.2	352.5	193.8	184.5	9.35	20.727		
2,700.0	2,691.6	2,684.1	2,651.8	5.7	8.0	-25.45	47.9	372.1	204.7	195.0	9.73	21.050		
2,800.0	2,791.2	2,783.5	2,749.2	6.0	8.4	-25.47	50.5	391.6	215.7	205.6	10.10	21.349		
2,900.0	2,890.7	2,882.9	2,846.6	6.2	8.8	-25.48	53.2	411.2	226.6	216.1	10.48	21.627		
3,000.0	2,990.2	2,982.3	2,944.0	6.5	9.2	-25.50	55.8	430.8	237.5	226.7	10.85	21.884		
3,100.0	3,089.8	3,081.7	3,041.5	6.7	9.6	-25.51	58.5	450.3	248.4	237.2	11.23	22.125		
3,200.0	3,189.3	3,181.1	3,138.9	6.9	10.0	-25.52	61.1	469.9	259.4	247.8	11.60	22.349		
3,300.0	3,288.9	3,280.5	3,236.3	7.2	10.4	-25.53	63.8	489.5	270.3	258.3	11.98	22.559		
3,400.0	3,388.4	3,379.9	3,333.7	7.4	10.8	-25.54	66.4	509.0	281.2	268.9	12.36	22.757		
3,500.0	3,487.9	3,479.3	3,431.1	7.7	11.2	-25.55	69.1	528.6	292.1	279.4	12.73	22.942		
3,600.0	3,587.5	3,578.7	3,528.6	7.9	11.5	-25.56	71.7	548.2	303.1	290.0	13.11	23.117		
3,700.0	3,687.0	3,678.1	3,626.0	8.1	11.9	-25.57	74.3	567.8	314.0	300.5	13.49	23.281		
3,800.0	3,786.6	3,777.5	3,723.4	8.4	12.3	-25.58	77.0	587.3	324.9	311.1	13.86	23.437		
3,900.0	3,886.1	3,876.9	3,820.8	8.6	12.7	-25.58	79.6	606.9	335.8	321.6	14.24	23.585		
4,000.0	3,985.7	3,976.3	3,918.2	8.9	13.1	-25.59	82.3	626.5	346.8	332.1	14.62	23.724		
4,100.0	4,085.2	4,075.7	4,015.7	9.1	13.5	-25.60	84.9	646.0	357.7	342.7	14.99	23.857		
4,200.0	4,184.7	4,175.1	4,113.1	9.3	13.9	-25.60	87.6	665.6	368.6	353.2	15.37	23.983		
4,300.0	4,284.3	4,274.5	4,210.5	9.6	14.3	-25.61	90.2	685.2	379.5	363.8	15.75	24.103		
4,400.0	4,383.8	4,373.9	4,307.9	9.8	14.7	-25.61	92.9	704.7	390.5	374.3	16.12	24.217		
4,500.0	4,483.4	4,473.3	4,405.3	10.1	15.0	-25.62	95.5	724.3	401.4	384.9	16.50	24.326		
4,600.0	4,582.9	4,572.7	4,502.8	10.3	15.4	-25.62	98.2	743.9	412.3	395.4	16.88	24.430		
4,700.0	4,682.5	4,672.1	4,600.2	10.5	15.8	-25.63	100.8	763.5	423.2	406.0	17.25	24.530		
4,800.0	4,782.0	4,771.5	4,697.6	10.8	16.2	-25.63	103.4	783.0	434.2	416.5	17.63	24.625		
4,900.0	4,881.5	4,870.9	4,795.0	11.0	16.6	-25.63	106.1	802.6	445.1	427.1	18.01	24.716		
5,000.0	4,981.1	4,970.3	4,892.4	11.3	17.0	-25.64	108.7	822.2	456.0	437.6	18.39	24.804		
5,100.0	5,080.6	5,069.7	4,989.9	11.5	17.4	-25.64	111.4	841.7	467.0	448.2	18.76	24.888		

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 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,180.2	5,169.1	5,087.3	11.8	17.8	-25.64	114.0	861.3	477.9	458.7	19.14	24.968	
5,300.0	5,279.7	5,268.5	5,184.7	12.0	18.2	-25.65	116.7	880.9	488.8	469.3	19.52	25.046	
5,400.0	5,379.3	5,367.9	5,282.1	12.2	18.6	-25.65	119.3	900.4	499.7	479.8	19.89	25.120	
5,500.0	5,478.8	5,467.3	5,379.5	12.5	19.0	-25.65	122.0	920.0	510.7	490.4	20.27	25.192	
5,600.0	5,578.3	5,566.7	5,477.0	12.7	19.3	-25.66	124.6	939.6	521.6	500.9	20.65	25.261	
5,700.0	5,677.9	5,666.1	5,574.4	13.0	19.7	-25.66	127.3	959.1	532.5	511.5	21.03	25.327	
5,800.0	5,777.4	5,765.5	5,671.8	13.2	20.1	-25.66	129.9	978.7	543.4	522.0	21.40	25.391	
5,900.0	5,877.0	5,864.9	5,769.2	13.4	20.5	-25.66	132.5	998.3	554.4	532.6	21.78	25.453	
6,000.0	5,976.5	5,964.3	5,866.6	13.7	20.9	-25.67	135.2	1,017.9	565.3	543.1	22.16	25.513	
6,100.0	6,076.1	6,063.7	5,964.1	13.9	21.3	-25.67	137.8	1,037.4	576.2	553.7	22.53	25.571	
6,200.0	6,175.6	6,163.1	6,061.5	14.2	21.7	-25.67	140.5	1,057.0	587.1	564.2	22.91	25.627	
6,300.0	6,275.1	6,262.5	6,158.9	14.4	22.1	-25.67	143.1	1,076.6	598.1	574.8	23.29	25.681	
6,400.0	6,374.7	6,361.9	6,256.3	14.6	22.5	-25.68	145.8	1,096.1	609.0	585.3	23.67	25.733	
6,500.0	6,474.2	6,461.3	6,353.7	14.9	22.9	-25.68	148.4	1,115.7	619.9	595.9	24.04	25.784	
6,600.0	6,573.8	6,560.7	6,451.2	15.1	23.3	-25.68	151.1	1,135.3	630.8	606.4	24.42	25.833	
6,700.0	6,673.3	6,660.1	6,548.6	15.4	23.6	-25.68	153.7	1,154.8	641.8	617.0	24.80	25.880	
6,800.0	6,772.9	6,759.5	6,646.0	15.6	24.0	-25.68	156.4	1,174.4	652.7	627.5	25.17	25.926	
6,900.0	6,872.4	6,858.9	6,743.4	15.9	24.4	-25.68	159.0	1,194.0	663.6	638.1	25.55	25.971	
7,000.0	6,971.9	6,958.4	6,840.9	16.1	24.8	17.37	161.6	1,213.6	673.9	648.0	25.88	26.040	
7,100.0	7,070.0	7,056.8	6,937.4	16.3	25.2	49.19	164.3	1,232.9	679.0	653.1	25.90	26.214	
7,200.0	7,163.9	7,132.4	7,011.2	16.5	25.5	58.95	169.2	1,247.8	680.4	654.8	25.63	26.547	
7,300.0	7,250.6	7,200.0	7,076.3	16.8	25.8	64.19	181.9	1,261.0	681.0	655.6	25.36	26.853	
7,400.0	7,327.6	7,279.7	7,150.5	17.1	26.2	68.44	206.6	1,276.1	681.3	655.8	25.48	26.742	
7,500.0	7,392.5	7,357.4	7,218.8	17.5	26.6	72.09	240.6	1,290.1	681.8	655.7	26.16	26.067	
7,600.0	7,443.4	7,438.8	7,285.0	18.1	27.0	75.58	286.1	1,303.7	683.0	655.4	27.57	24.770	
7,700.0	7,478.6	7,525.3	7,347.5	18.8	27.5	79.02	344.2	1,316.8	685.3	655.7	29.67	23.096	
7,800.0	7,497.1	7,618.3	7,404.3	19.6	28.1	82.47	416.7	1,328.8	689.0	656.8	32.20	21.401	
7,900.0	7,500.0	7,720.7	7,452.6	20.5	28.8	86.08	506.3	1,339.3	694.1	659.3	34.77	19.962	
8,000.0	7,500.0	7,839.6	7,488.1	21.5	29.7	89.02	619.2	1,347.4	698.9	661.9	37.03	18.875	
8,100.0	7,500.0	7,966.8	7,500.0	22.7	30.7	90.00	745.5	1,350.9	700.5	661.4	39.10	17.915	
8,200.0	7,500.0	8,066.8	7,500.0	23.9	31.6	90.00	845.5	1,351.8	700.4	658.5	41.86	16.732	
8,300.0	7,500.0	8,166.8	7,500.0	25.1	32.5	90.00	945.5	1,352.6	700.2	655.5	44.71	15.660	
8,400.0	7,500.0	8,266.8	7,500.0	26.4	33.6	90.00	1,045.5	1,353.5	700.0	652.4	47.65	14.690	
8,500.0	7,500.0	8,366.8	7,500.0	27.8	34.6	90.00	1,145.5	1,354.4	699.8	649.2	50.67	13.812	
8,600.0	7,500.0	8,466.8	7,500.0	29.2	35.8	90.00	1,245.5	1,355.3	699.7	645.9	53.74	13.019	
8,700.0	7,500.0	8,566.8	7,500.0	30.7	37.0	90.00	1,345.5	1,356.1	699.5	642.6	56.86	12.301	
8,800.0	7,500.0	8,666.8	7,500.0	32.1	38.2	90.00	1,445.5	1,357.0	699.3	639.3	60.03	11.649	
8,900.0	7,500.0	8,766.8	7,500.0	33.6	39.4	90.00	1,545.5	1,357.9	699.1	635.9	63.24	11.056	
9,000.0	7,500.0	8,866.8	7,500.0	35.2	40.7	90.00	1,645.5	1,358.8	699.0	632.5	66.47	10.515	
9,100.0	7,500.0	8,966.8	7,500.0	36.7	42.1	90.00	1,745.5	1,359.6	698.8	629.1	69.73	10.021	
9,200.0	7,500.0	9,066.8	7,500.0	38.3	43.4	90.00	1,845.5	1,360.5	698.6	625.6	73.01	9.568	
9,300.0	7,500.0	9,166.8	7,500.0	39.9	44.8	90.00	1,945.5	1,361.4	698.4	622.1	76.32	9.152	
9,400.0	7,500.0	9,266.8	7,500.0	41.4	46.3	90.00	2,045.5	1,362.2	698.3	618.6	79.64	8.768	
9,500.0	7,500.0	9,366.8	7,500.0	43.1	47.7	90.00	2,145.5	1,363.1	698.1	615.1	82.97	8.413	
9,600.0	7,500.0	9,466.8	7,500.0	44.7	49.2	90.00	2,245.4	1,364.0	697.9	611.6	86.32	8.085	
9,700.0	7,500.0	9,568.0	7,500.0	46.3	50.7	90.00	2,346.7	1,364.9	697.7	608.1	89.65	7.783	
9,800.0	7,500.0	9,681.8	7,500.0	47.9	52.3	90.00	2,460.5	1,364.5	696.4	603.8	92.59	7.521	
9,900.0	7,500.0	9,795.6	7,500.0	49.6	54.0	90.00	2,574.2	1,361.9	693.0	597.5	95.50	7.257	
10,000.0	7,500.0	9,909.1	7,500.0	51.2	55.7	90.00	2,687.7	1,357.1	687.7	589.3	98.39	6.990	
10,100.0	7,500.0	10,022.4	7,500.0	52.9	57.4	90.00	2,800.7	1,350.0	680.7	579.4	101.24	6.724	
10,200.0	7,500.0	10,135.5	7,500.0	54.5	59.1	90.00	2,913.4	1,340.7	673.2	569.1	104.05	6.469	
10,300.0	7,500.0	10,243.7	7,500.0	56.2	60.7	90.00	3,021.0	1,329.9	665.6	558.5	107.06	6.217	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,400.0	7,500.0	10,343.5	7,500.0	57.8	62.2	90.00	3,120.3	1,319.4	659.3	548.9	110.48	5.968		
10,500.0	7,500.0	10,443.4	7,500.0	59.5	63.8	90.00	3,219.7	1,309.0	654.8	540.9	113.90	5.749		
10,600.0	7,500.0	10,543.3	7,500.0	61.1	65.3	90.00	3,319.1	1,298.5	652.1	534.7	117.33	5.557		
10,700.0	7,500.0	10,643.3	7,500.0	62.8	66.9	90.00	3,418.5	1,288.1	651.0	530.3	120.77	5.391		
10,708.5	7,500.0	10,651.8	7,500.0	62.9	67.0	90.00	3,427.0	1,287.2	651.0	530.0	121.06	5.378		
10,800.0	7,500.0	10,743.3	7,500.0	64.4	68.4	90.00	3,518.0	1,277.6	651.8	527.5	124.21	5.247		
10,900.0	7,500.0	10,843.3	7,500.0	66.1	70.0	90.00	3,617.4	1,267.2	654.2	526.6	127.66	5.125		
11,000.0	7,500.0	10,943.2	7,500.0	67.7	71.6	90.00	3,716.8	1,256.7	657.7	526.6	131.11	5.017		
11,100.0	7,500.0	11,043.1	7,500.0	69.4	73.2	90.00	3,816.2	1,246.3	661.2	526.6	134.56	4.914		
11,200.0	7,500.0	11,143.1	7,500.0	71.1	74.8	90.00	3,915.6	1,235.8	664.7	526.7	138.02	4.816		
11,300.0	7,500.0	11,243.0	7,500.0	72.7	76.4	90.00	4,015.0	1,225.4	668.0	526.5	141.49	4.722		
11,400.0	7,500.0	11,343.0	7,500.0	74.4	78.0	90.00	4,114.4	1,214.9	669.9	525.0	144.95	4.622		
11,500.0	7,500.0	11,443.0	7,500.0	76.1	79.6	90.00	4,213.8	1,204.5	670.1	521.7	148.42	4.515		
11,600.0	7,500.0	11,543.0	7,500.0	77.8	81.2	90.00	4,313.3	1,194.0	668.5	516.6	151.89	4.401		
11,700.0	7,500.0	11,642.9	7,500.0	79.5	82.8	90.00	4,412.7	1,183.6	665.1	509.8	155.36	4.281		
11,800.0	7,500.0	11,742.8	7,500.0	81.2	84.5	90.00	4,512.0	1,173.2	660.0	501.2	158.82	4.156		
11,900.0	7,500.0	11,839.0	7,500.0	82.9	86.0	90.00	4,607.7	1,163.2	653.3	490.9	162.47	4.021		
12,000.0	7,500.0	11,928.6	7,500.0	84.7	87.5	90.00	4,696.9	1,155.0	646.1	479.7	166.42	3.882		
12,100.0	7,500.0	12,018.3	7,500.0	86.4	89.0	90.00	4,786.3	1,148.2	638.6	468.3	170.34	3.749		
12,200.0	7,500.0	12,108.0	7,500.0	88.1	90.5	90.00	4,875.9	1,142.8	631.1	456.9	174.22	3.622		
12,300.0	7,500.0	12,200.0	7,500.0	89.8	92.1	90.00	4,967.8	1,138.7	624.7	446.7	178.00	3.510		
12,400.0	7,500.0	12,288.1	7,500.0	91.6	93.6	90.00	5,055.8	1,136.2	619.9	438.0	181.90	3.408		
12,500.0	7,500.0	12,378.3	7,500.0	93.3	95.1	90.00	5,146.0	1,135.1	616.6	430.9	185.68	3.321		
12,600.0	7,500.0	12,468.6	7,500.0	95.0	96.6	90.00	5,236.3	1,135.3	614.9	425.5	189.42	3.246		
12,657.8	7,500.0	12,520.7	7,500.0	96.0	97.5	90.00	5,288.4	1,136.1	614.6	423.1	191.57	3.208		
12,700.0	7,500.0	12,558.9	7,500.0	96.8	98.2	90.00	5,326.6	1,137.0	614.8	421.6	193.13	3.183		
12,800.0	7,500.0	12,649.2	7,500.0	98.5	99.7	90.00	5,416.8	1,140.1	616.2	419.4	196.79	3.131		
12,900.0	7,500.0	12,739.4	7,500.0	100.2	101.3	90.00	5,506.9	1,144.6	619.2	418.8	200.40	3.090		
13,000.0	7,500.0	12,831.4	7,500.0	102.0	102.9	90.00	5,598.7	1,150.6	623.8	419.9	203.96	3.059		
13,100.0	7,500.0	12,931.3	7,500.0	103.7	104.6	90.00	5,698.4	1,157.7	628.9	421.5	207.44	3.032		
13,200.0	7,500.0	13,031.1	7,500.0	105.4	106.3	90.00	5,798.0	1,164.7	634.0	423.1	210.92	3.006		
13,300.0	7,500.0	13,131.0	7,500.0	107.2	108.1	90.00	5,897.6	1,171.7	639.1	424.7	214.40	2.981		
13,400.0	7,500.0	13,230.9	7,500.0	108.9	109.8	90.00	5,997.2	1,178.8	644.2	426.3	217.89	2.956		
13,500.0	7,500.0	13,330.7	7,500.0	110.7	111.5	90.00	6,096.8	1,185.8	649.2	427.9	221.37	2.933		
13,600.0	7,500.0	13,430.6	7,500.0	112.4	113.2	90.00	6,196.5	1,192.9	654.3	429.5	224.86	2.910		
13,700.0	7,500.0	13,530.5	7,500.0	114.1	115.0	90.00	6,296.1	1,199.9	659.4	431.1	228.35	2.888		
13,800.0	7,500.0	13,630.4	7,500.0	115.9	116.7	90.00	6,395.7	1,207.0	664.5	432.7	231.83	2.866		
13,900.0	7,500.0	13,730.2	7,500.0	117.6	118.5	90.00	6,495.3	1,214.0	669.6	434.3	235.32	2.845		
14,000.0	7,500.0	13,830.1	7,500.0	119.4	120.2	90.00	6,595.0	1,221.1	674.7	435.9	238.81	2.825		
14,100.0	7,500.0	13,930.0	7,500.0	121.1	121.9	90.00	6,694.6	1,228.1	679.8	437.5	242.30	2.805		
14,200.0	7,500.0	14,029.8	7,500.0	122.8	123.7	90.00	6,794.2	1,235.1	684.8	439.1	245.79	2.786		
14,300.0	7,500.0	14,129.7	7,500.0	124.6	125.4	90.00	6,893.8	1,242.2	689.9	440.6	249.28	2.768		
14,400.0	7,500.0	14,229.6	7,500.0	126.3	127.1	90.00	6,993.4	1,249.2	695.0	442.2	252.77	2.750		
14,458.1	7,500.0	14,287.6	7,500.0	127.3	128.1	90.00	7,051.3	1,253.3	698.0	443.2	254.79	2.739 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 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #3											Offset Site Error: 0.0 ft				
Survey Program: 0-Geolink MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.92	-0.4	22.4	22.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.92	-0.4	22.4	22.4	22.1	0.30	73.738			
200.0	200.0	200.0	200.0	0.3	0.3	90.92	-0.4	22.4	22.4	21.7	0.65	34.306			
203.3	203.3	203.3	203.3	0.3	0.3	90.92	-0.4	22.4	22.4	21.7	0.66	33.704 CC			
300.0	300.0	299.8	299.8	0.5	0.5	91.01	-0.4	22.6	22.6	21.6	1.00	22.575 ES			
400.0	400.0	399.4	399.4	0.7	0.7	91.65	-0.7	24.3	24.3	23.0	1.35	18.025			
500.0	500.0	498.9	498.8	0.8	0.9	92.68	-1.3	27.7	27.8	26.1	1.70	16.360			
600.0	600.0	598.3	598.1	1.0	1.0	-2.37	-2.2	32.8	32.1	30.0	2.04	15.687			
700.0	700.0	697.6	697.1	1.2	1.3	-1.36	-3.4	39.6	36.4	34.0	2.39	15.208			
800.0	799.9	796.8	796.0	1.4	1.5	-0.40	-4.9	48.1	40.6	37.9	2.74	14.851			
900.0	899.7	896.0	894.6	1.6	1.7	0.52	-6.7	58.2	44.9	41.8	3.08	14.575			
1,000.0	999.4	995.1	993.0	1.8	2.0	1.41	-8.8	70.0	49.2	45.8	3.43	14.355			
1,100.0	1,098.9	1,094.1	1,091.0	2.0	2.2	2.28	-11.1	83.5	53.7	49.9	3.77	14.239			
1,200.0	1,198.5	1,192.9	1,188.7	2.2	2.5	3.05	-13.8	98.6	59.7	55.6	4.11	14.517			
1,300.0	1,298.0	1,291.5	1,285.8	2.4	2.9	3.67	-16.8	115.4	67.5	63.0	4.46	15.144			
1,400.0	1,397.6	1,389.8	1,382.3	2.7	3.2	4.16	-20.0	133.7	77.0	72.2	4.80	16.044			
1,500.0	1,497.1	1,487.8	1,478.2	2.9	3.6	4.53	-23.5	153.6	88.1	83.0	5.14	17.162			
1,600.0	1,596.6	1,585.4	1,573.3	3.1	4.0	4.80	-27.3	174.9	101.0	95.6	5.47	18.458			
1,700.0	1,696.2	1,682.5	1,667.6	3.4	4.5	4.99	-31.3	197.8	115.6	109.8	5.81	19.899			
1,800.0	1,795.7	1,779.8	1,761.7	3.6	4.9	5.09	-35.5	222.3	131.7	125.6	6.15	21.431			
1,900.0	1,895.3	1,878.7	1,857.2	3.8	5.4	4.66	-38.6	247.6	148.2	141.7	6.50	22.808			
2,000.0	1,994.8	1,977.5	1,952.7	4.1	5.8	3.72	-40.0	273.1	164.5	157.6	6.84	24.034			
2,100.0	2,094.4	2,079.2	2,051.1	4.3	6.3	2.66	-40.5	298.6	180.0	172.8	7.21	24.972			
2,200.0	2,193.9	2,180.5	2,149.6	4.5	6.7	1.84	-40.9	322.3	193.8	186.3	7.57	25.620			
2,300.0	2,293.4	2,279.5	2,246.0	4.8	7.2	1.15	-41.3	345.1	207.3	199.4	7.91	26.199			
2,400.0	2,393.0	2,378.6	2,342.4	5.0	7.6	0.55	-41.7	367.9	220.8	212.6	8.26	26.732			
2,500.0	2,492.5	2,477.6	2,438.8	5.3	8.1	0.01	-42.1	390.7	234.3	225.7	8.61	27.223			
2,600.0	2,592.1	2,576.7	2,535.2	5.5	8.5	-0.46	-42.5	413.5	247.9	238.9	8.96	27.676			
2,700.0	2,691.6	2,675.8	2,631.6	5.7	8.9	-0.89	-43.0	436.3	261.4	252.1	9.30	28.097			
2,800.0	2,791.2	2,774.8	2,728.0	6.0	9.4	-1.27	-43.4	459.1	275.0	265.3	9.65	28.488			
2,900.0	2,890.7	2,873.9	2,824.4	6.2	9.8	-1.62	-43.8	481.9	288.6	278.6	10.00	28.853			
3,000.0	2,990.2	2,972.9	2,920.8	6.5	10.2	-1.93	-44.2	504.8	302.2	291.8	10.35	29.193			
3,100.0	3,089.8	3,072.0	3,017.2	6.7	10.7	-2.22	-44.6	527.6	315.8	305.1	10.70	29.511			
3,200.0	3,189.3	3,171.0	3,113.6	6.9	11.1	-2.49	-45.0	550.4	329.4	318.3	11.05	29.810			
3,300.0	3,288.9	3,270.1	3,210.0	7.2	11.6	-2.73	-45.4	573.2	343.0	331.6	11.40	30.090			
3,400.0	3,388.4	3,369.2	3,306.4	7.4	12.0	-2.96	-45.8	596.0	356.6	344.8	11.75	30.354			
3,500.0	3,487.9	3,468.2	3,402.8	7.7	12.4	-3.17	-46.3	618.8	370.2	358.1	12.10	30.603			
3,600.0	3,587.5	3,567.3	3,499.2	7.9	12.9	-3.36	-46.7	641.6	383.8	371.4	12.45	30.838			
3,700.0	3,687.0	3,666.3	3,595.6	8.1	13.3	-3.54	-47.1	664.4	397.5	384.7	12.80	31.061			
3,800.0	3,786.6	3,765.4	3,691.9	8.4	13.8	-3.71	-47.5	687.2	411.1	398.0	13.15	31.271			
3,900.0	3,886.1	3,864.5	3,788.3	8.6	14.2	-3.87	-47.9	710.0	424.7	411.2	13.50	31.471			
4,000.0	3,985.7	3,963.5	3,884.7	8.9	14.6	-4.02	-48.3	732.8	438.4	424.5	13.85	31.660			
4,100.0	4,085.2	4,062.6	3,981.1	9.1	15.1	-4.15	-48.7	755.6	452.0	437.8	14.20	31.841			
4,200.0	4,184.7	4,161.6	4,077.5	9.3	15.5	-4.29	-49.1	778.4	465.7	451.1	14.55	32.012			
4,300.0	4,284.3	4,260.7	4,173.9	9.6	16.0	-4.41	-49.6	801.2	479.3	464.4	14.90	32.176			
4,400.0	4,383.8	4,359.8	4,270.3	9.8	16.4	-4.53	-50.0	824.0	493.0	477.7	15.25	32.332			
4,500.0	4,483.4	4,458.8	4,366.7	10.1	16.9	-4.64	-50.4	846.8	506.6	491.0	15.60	32.481			
4,600.0	4,582.9	4,557.9	4,463.1	10.3	17.3	-4.74	-50.8	869.6	520.3	504.3	15.95	32.624			
4,700.0	4,682.5	4,656.9	4,559.5	10.5	17.7	-4.84	-51.2	892.4	533.9	517.6	16.30	32.761			
4,800.0	4,782.0	4,756.0	4,655.9	10.8	18.2	-4.93	-51.6	915.2	547.6	530.9	16.65	32.891			
4,900.0	4,881.5	4,855.1	4,752.3	11.0	18.6	-5.02	-52.0	938.0	561.2	544.2	17.00	33.017			
5,000.0	4,981.1	4,954.1	4,848.7	11.3	19.1	-5.11	-52.4	960.8	574.9	557.5	17.35	33.137			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
5,100.0	5,080.6	5,053.2	4,945.1	11.5	19.5	-5.19	-52.8	983.6	588.6	570.9	17.70	33.253	
5,200.0	5,180.2	5,152.2	5,041.5	11.8	19.9	-5.27	-53.3	1,006.4	602.2	584.2	18.05	33.364	
5,300.0	5,279.7	5,251.3	5,137.9	12.0	20.4	-5.34	-53.7	1,029.2	615.9	597.5	18.40	33.471	
5,400.0	5,379.3	5,350.4	5,234.3	12.2	20.8	-5.41	-54.1	1,052.0	629.5	610.8	18.75	33.574	
5,500.0	5,478.8	5,449.4	5,330.7	12.5	21.3	-5.48	-54.5	1,074.8	643.2	624.1	19.10	33.673	
5,600.0	5,578.3	5,548.5	5,427.1	12.7	21.7	-5.55	-54.9	1,097.6	656.9	637.4	19.45	33.768	
5,700.0	5,677.9	5,647.5	5,523.5	13.0	22.2	-5.61	-55.3	1,120.4	670.5	650.7	19.80	33.860	
5,800.0	5,777.4	5,746.6	5,619.9	13.2	22.6	-5.67	-55.7	1,143.2	684.2	664.0	20.15	33.949	
5,900.0	5,877.0	5,845.6	5,716.3	13.4	23.0	-5.73	-56.1	1,166.0	697.9	677.4	20.50	34.035	
6,000.0	5,976.5	5,944.7	5,812.7	13.7	23.5	-5.78	-56.6	1,188.8	711.5	690.7	20.86	34.118	
6,100.0	6,076.1	6,043.8	5,909.1	13.9	23.9	-5.84	-57.0	1,211.6	725.2	704.0	21.21	34.198	
6,200.0	6,175.6	6,142.8	6,005.5	14.2	24.4	-5.89	-57.4	1,234.4	738.9	717.3	21.56	34.276	
6,300.0	6,275.1	6,241.9	6,101.9	14.4	24.8	-5.94	-57.8	1,257.3	752.5	730.6	21.91	34.351	
6,400.0	6,374.7	6,340.9	6,198.3	14.6	25.3	-5.99	-58.2	1,280.1	766.2	744.0	22.26	34.424	
6,500.0	6,474.2	6,440.0	6,294.7	14.9	25.7	-6.03	-58.6	1,302.9	779.9	757.3	22.61	34.495	
6,600.0	6,573.8	6,539.1	6,391.1	15.1	26.1	-6.08	-59.0	1,325.7	793.6	770.6	22.96	34.563	
6,700.0	6,673.3	6,638.1	6,487.5	15.4	26.6	-6.12	-59.4	1,348.5	807.2	783.9	23.31	34.629	
6,800.0	6,772.9	6,737.2	6,583.9	15.6	27.0	-6.16	-59.9	1,371.3	820.9	797.2	23.66	34.694	
6,900.0	6,872.4	6,836.2	6,680.3	15.9	27.5	-6.20	-60.3	1,394.1	834.6	810.6	24.01	34.756	
7,000.0	6,971.9	6,935.3	6,776.6	16.1	27.9	-6.25	-60.7	1,416.9	848.2	823.9	24.35	34.835	
7,100.0	7,070.0	7,032.9	6,871.6	16.3	28.4	-6.27	-61.1	1,439.3	861.7	837.0	24.63	34.988	
7,200.0	7,163.9	7,126.2	6,962.5	16.5	28.8	-6.30	-61.5	1,460.8	875.4	850.5	24.96	35.076	
7,300.0	7,250.6	7,212.5	7,046.4	16.8	29.2	-6.33	-61.8	1,480.7	890.8	865.3	25.56	34.856	
7,400.0	7,327.6	7,289.0	7,120.9	17.1	29.5	-6.37	-62.2	1,498.3	909.8	883.1	26.66	34.119	
7,500.0	7,392.5	7,356.5	7,186.6	17.5	29.8	-6.40	-62.4	1,513.8	934.1	905.6	28.44	32.845	
7,600.0	7,443.4	7,474.8	7,300.8	18.1	30.3	-6.45	-62.9	1,540.8	963.2	932.3	30.95	31.121	
7,700.0	7,478.6	7,654.5	7,463.1	18.8	31.0	-6.48	-63.1	1,578.8	993.9	960.6	33.37	29.785	
7,800.0	7,497.1	7,984.5	7,680.2	19.6	32.4	-6.51	-63.3	1,628.9	1,018.4	984.8	33.67	30.247	
7,900.0	7,500.0	8,297.8	7,740.0	20.5	34.0	-6.54	-63.5	1,641.5	1,021.8	988.5	33.30	30.683	
8,000.0	7,500.0	8,397.8	7,740.0	21.5	34.6	-6.57	-63.7	1,641.0	1,020.3	984.6	35.66	28.607	
8,100.0	7,500.0	8,497.8	7,740.0	22.7	35.3	-6.60	-63.9	1,640.4	1,018.7	980.5	38.18	26.680	
8,200.0	7,500.0	8,597.8	7,740.0	23.9	36.0	-6.63	-64.1	1,639.9	1,017.2	976.4	40.83	24.912	
8,300.0	7,500.0	8,697.8	7,740.0	25.1	36.9	-6.66	-64.3	1,639.4	1,015.7	972.1	43.59	23.303	
8,400.0	7,500.0	8,797.8	7,740.0	26.4	37.8	-6.69	-64.5	1,638.9	1,014.2	967.7	46.43	21.844	
8,500.0	7,500.0	8,897.8	7,740.0	27.8	38.7	-6.72	-64.7	1,638.4	1,012.6	963.3	49.34	20.524	
8,600.0	7,500.0	8,997.8	7,740.0	29.2	39.7	-6.75	-64.9	1,637.8	1,011.1	958.8	52.31	19.330	
8,700.0	7,500.0	9,097.7	7,740.0	30.7	40.8	-6.78	-65.1	1,637.3	1,009.6	954.2	55.33	18.247	
8,800.0	7,500.0	9,197.7	7,740.0	32.1	41.9	-6.81	-65.3	1,636.8	1,008.0	949.7	58.39	17.264	
8,900.0	7,500.0	9,297.7	7,740.0	33.6	43.0	-6.84	-65.5	1,636.3	1,006.5	945.0	61.49	16.370	
9,000.0	7,500.0	9,397.7	7,740.0	35.2	44.2	-6.87	-65.7	1,635.7	1,005.0	940.4	64.62	15.554	
9,100.0	7,500.0	9,497.7	7,740.0	36.7	45.4	-6.90	-65.9	1,635.2	1,003.5	935.7	67.77	14.807	
9,200.0	7,500.0	9,597.7	7,740.0	38.3	46.7	-6.93	-66.1	1,634.7	1,001.9	931.0	70.94	14.123	
9,300.0	7,500.0	9,697.7	7,740.0	39.9	48.0	-6.96	-66.3	1,634.2	1,000.4	926.3	74.14	13.494	
9,400.0	7,500.0	9,797.7	7,740.0	41.4	49.3	-6.99	-66.5	1,633.6	998.9	921.5	77.35	12.914	
9,500.0	7,500.0	9,897.6	7,740.0	43.1	50.6	-7.02	-66.7	1,633.1	997.4	916.8	80.58	12.378	
9,600.0	7,500.0	9,997.6	7,740.0	44.7	52.0	-7.05	-66.9	1,632.6	995.8	912.0	83.82	11.881	
9,700.0	7,500.0	10,097.6	7,740.0	46.3	53.4	-7.08	-67.1	1,632.1	994.3	907.3	87.07	11.420	
9,800.0	7,500.0	10,197.6	7,740.0	47.9	54.8	-7.11	-67.3	1,631.5	992.8	902.5	90.33	10.991	
9,900.0	7,500.0	10,297.6	7,740.0	49.6	56.3	-7.14	-67.5	1,631.0	991.3	897.7	93.60	10.590	
10,000.0	7,500.0	10,397.6	7,740.0	51.2	57.7	-7.17	-67.7	1,630.5	989.7	892.9	96.88	10.216	
10,100.0	7,500.0	10,497.6	7,740.0	52.9	59.2	-7.20	-67.9	1,630.0	988.4	888.3	100.17	9.868	
10,138.5	7,500.0	10,536.1	7,740.0	53.5	59.7	-7.23	-68.1	1,629.8	988.3	886.9	101.44	9.743	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,500.0	10,597.6	7,740.0	54.5	60.7	104.05	2,856.5	1,629.4	988.6	885.2	103.47	9.555		
10,300.0	7,500.0	10,697.5	7,740.0	56.2	62.2	104.03	2,956.5	1,628.9	990.5	883.7	106.79	9.275		
10,400.0	7,500.0	10,797.5	7,740.0	57.8	63.7	103.98	3,056.4	1,628.4	994.1	884.0	110.13	9.027		
10,500.0	7,500.0	10,897.3	7,740.0	59.5	65.2	103.92	3,156.3	1,627.9	999.4	885.9	113.48	8.806		
10,600.0	7,500.0	10,997.1	7,740.0	61.1	66.7	103.84	3,256.0	1,627.4	1,006.4	889.5	116.85	8.612		
10,700.0	7,500.0	11,096.7	7,740.0	62.8	68.3	103.74	3,355.6	1,626.8	1,015.0	894.8	120.23	8.442		
10,800.0	7,500.0	11,196.1	7,740.0	64.4	69.8	103.62	3,455.1	1,626.3	1,025.4	901.7	123.63	8.294		
10,900.0	7,500.0	11,295.4	7,740.0	66.1	71.4	103.49	3,554.3	1,625.8	1,037.4	910.4	127.03	8.167		
11,000.0	7,500.0	11,394.4	7,740.0	67.7	72.9	103.32	3,653.4	1,625.3	1,050.4	920.0	130.45	8.053		
11,100.0	7,500.0	11,493.5	7,740.0	69.4	74.5	103.16	3,752.5	1,624.8	1,063.5	929.6	133.86	7.945		
11,200.0	7,500.0	11,592.6	7,740.0	71.1	76.1	102.99	3,851.6	1,624.2	1,076.6	939.3	137.29	7.842		
11,300.0	7,500.0	11,691.7	7,740.0	72.7	77.6	102.83	3,950.7	1,623.7	1,089.5	948.8	140.72	7.742		
11,400.0	7,500.0	11,791.0	7,740.0	74.4	79.2	102.66	4,050.0	1,623.2	1,101.0	956.9	144.15	7.638		
11,500.0	7,500.0	11,890.5	7,740.0	76.1	80.8	102.53	4,149.5	1,622.7	1,110.8	963.3	147.57	7.527		
11,600.0	7,500.0	11,990.2	7,740.0	77.8	82.5	102.42	4,249.1	1,622.2	1,119.0	968.0	151.00	7.411		
11,700.0	7,500.0	12,090.0	7,740.0	79.5	84.1	102.33	4,348.9	1,621.6	1,125.4	971.0	154.42	7.288		
11,800.0	7,500.0	12,189.8	7,740.0	81.2	85.7	102.27	4,448.8	1,621.1	1,130.2	972.4	157.83	7.161		
11,900.0	7,500.0	12,289.8	7,740.0	82.9	87.3	102.23	4,548.7	1,620.6	1,133.2	972.0	161.23	7.028		
12,000.0	7,500.0	12,389.8	7,740.0	84.7	89.0	102.21	4,648.7	1,620.1	1,134.6	969.9	164.63	6.892		
12,100.0	7,500.0	12,489.8	7,740.0	86.4	90.6	102.22	4,748.7	1,619.5	1,134.2	966.2	168.02	6.750		
12,200.0	7,500.0	12,589.8	7,740.0	88.1	92.2	102.24	4,848.7	1,619.0	1,132.2	960.8	171.39	6.606		
12,300.0	7,500.0	12,689.7	7,740.0	89.8	93.9	102.27	4,948.7	1,618.5	1,129.8	955.0	174.77	6.464		
12,400.0	7,500.0	12,789.7	7,740.0	91.6	95.5	102.30	5,048.6	1,618.0	1,127.3	949.2	178.15	6.328		
12,500.0	7,500.0	12,889.7	7,740.0	93.3	97.2	102.32	5,148.6	1,617.4	1,124.9	943.4	181.52	6.197		
12,600.0	7,500.0	12,989.6	7,740.0	95.0	98.9	102.35	5,248.6	1,616.9	1,122.4	937.5	184.90	6.071		
12,700.0	7,500.0	13,089.6	7,740.0	96.8	100.5	102.38	5,348.5	1,616.4	1,120.0	931.7	188.27	5.949		
12,800.0	7,500.0	13,189.6	7,740.0	98.5	102.2	102.40	5,448.5	1,615.9	1,117.6	925.9	191.65	5.831		
12,900.0	7,500.0	13,289.5	7,740.0	100.2	103.9	102.43	5,548.5	1,615.4	1,115.1	920.1	195.03	5.718		
13,000.0	7,500.0	13,389.5	7,740.0	102.0	105.5	102.46	5,648.4	1,614.8	1,112.7	914.3	198.41	5.608		
13,100.0	7,500.0	13,489.5	7,740.0	103.7	107.2	102.49	5,748.4	1,614.3	1,110.3	908.5	201.78	5.502		
13,200.0	7,500.0	13,589.4	7,740.0	105.4	108.9	102.52	5,848.4	1,613.8	1,107.8	902.7	205.16	5.400		
13,300.0	7,500.0	13,689.4	7,740.0	107.2	110.6	102.54	5,948.3	1,613.3	1,105.4	896.8	208.54	5.301		
13,400.0	7,500.0	13,789.4	7,740.0	108.9	112.2	102.57	6,048.3	1,612.7	1,102.9	891.0	211.92	5.205		
13,500.0	7,500.0	13,889.4	7,740.0	110.7	113.9	102.60	6,148.3	1,612.2	1,100.5	885.2	215.30	5.112		
13,600.0	7,500.0	13,989.3	7,740.0	112.4	115.6	102.63	6,248.2	1,611.7	1,098.1	879.4	218.67	5.022		
13,700.0	7,500.0	14,089.3	7,740.0	114.1	117.3	102.66	6,348.2	1,611.2	1,095.6	873.6	222.05	4.934		
13,800.0	7,500.0	14,189.3	7,740.0	115.9	119.0	102.69	6,448.2	1,610.6	1,093.2	867.8	225.43	4.849		
13,900.0	7,500.0	14,289.2	7,740.0	117.6	120.7	102.71	6,548.1	1,610.1	1,090.8	862.0	228.80	4.767		
14,000.0	7,500.0	14,389.2	7,740.0	119.4	122.4	102.74	6,648.1	1,609.6	1,088.3	856.2	232.18	4.687		
14,100.0	7,500.0	14,489.2	7,740.0	121.1	124.1	102.77	6,748.1	1,609.1	1,085.9	850.3	235.56	4.610		
14,200.0	7,500.0	14,589.1	7,740.0	122.8	125.8	102.80	6,848.0	1,608.5	1,083.5	844.5	238.93	4.535		
14,300.0	7,500.0	14,689.1	7,740.0	124.6	127.5	102.83	6,948.0	1,608.0	1,081.0	838.7	242.31	4.461		
14,400.0	7,500.0	14,789.1	7,740.0	126.3	129.2	102.86	7,048.0	1,607.5	1,078.6	832.9	245.68	4.390		
14,458.1	7,500.0	14,847.1	7,740.0	127.3	130.1	102.88	7,106.0	1,607.2	1,077.2	829.5	247.64	4.350 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #4											Offset Site Error: 0.0 ft				
Survey Program: 0-Geolink MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	90.68	-0.4	29.9	29.9						
100.0	100.0	100.0	100.0	0.2	0.2	90.68	-0.4	29.9	29.9	29.6	0.30	98.619	CC, ES		
200.0	200.0	200.0	200.0	0.3	0.3	90.68	-0.4	29.9	29.9	29.3	0.65	45.881			
300.0	300.0	299.5	299.5	0.5	0.5	90.71	-0.4	30.8	30.8	29.8	1.00	30.792			
400.0	400.0	398.9	398.8	0.7	0.7	90.79	-0.5	33.4	33.4	32.1	1.35	24.783			
500.0	500.0	498.2	498.0	0.8	0.9	90.91	-0.6	37.7	37.8	36.1	1.70	22.267			
600.0	600.0	597.3	597.0	1.0	1.1	-5.22	-0.8	43.7	43.0	40.9	2.04	21.034			
700.0	700.0	696.4	695.8	1.2	1.3	-5.36	-1.0	51.4	48.1	45.8	2.39	20.160			
800.0	799.9	795.4	794.3	1.4	1.5	-5.61	-1.3	60.8	53.3	50.6	2.73	19.508			
900.0	899.7	894.3	892.6	1.6	1.8	-5.95	-1.7	71.9	58.5	55.4	3.08	19.002			
1,000.0	999.4	993.1	990.6	1.8	2.0	-6.35	-2.1	84.7	63.7	60.2	3.42	18.596			
1,100.0	1,098.9	1,091.8	1,088.2	2.0	2.3	-6.77	-2.5	99.2	69.0	65.3	3.77	18.326	SF		
1,200.0	1,198.5	1,190.3	1,185.4	2.2	2.6	-7.10	-3.0	115.3	75.9	71.8	4.11	18.473			
1,300.0	1,298.0	1,288.6	1,282.1	2.4	3.0	-7.30	-3.6	133.0	84.6	80.1	4.45	18.986			
1,400.0	1,397.6	1,386.5	1,378.1	2.7	3.4	-7.42	-4.2	152.3	94.9	90.1	4.80	19.787			
1,500.0	1,497.1	1,484.1	1,473.4	2.9	3.7	-7.46	-4.8	173.2	106.9	101.8	5.13	20.818			
1,600.0	1,596.6	1,581.2	1,567.9	3.1	4.2	-7.45	-5.5	195.5	120.6	115.1	5.47	22.037			
1,700.0	1,696.2	1,677.9	1,661.6	3.4	4.6	-7.40	-6.2	219.4	136.0	130.2	5.81	23.410			
1,800.0	1,795.7	1,774.0	1,754.3	3.6	5.1	-7.33	-7.0	244.7	153.0	146.8	6.14	24.914			
1,900.0	1,895.3	1,869.5	1,846.0	3.8	5.6	-7.25	-7.8	271.4	171.6	165.2	6.47	26.527			
2,000.0	1,994.8	1,964.5	1,936.7	4.1	6.1	-7.16	-8.7	299.4	191.9	185.1	6.80	28.235			
2,100.0	2,094.4	2,058.8	2,026.4	4.3	6.7	-7.06	-9.6	328.7	213.9	206.7	7.12	30.020			
2,200.0	2,193.9	2,156.2	2,118.7	4.5	7.2	-6.98	-10.6	359.7	236.5	229.0	7.47	31.660			
2,300.0	2,293.4	2,253.6	2,211.0	4.8	7.8	-6.90	-11.5	390.7	259.2	251.3	7.82	33.155			
2,400.0	2,393.0	2,351.0	2,303.4	5.0	8.4	-6.84	-12.5	421.6	281.8	273.7	8.16	34.523			
2,500.0	2,492.5	2,448.4	2,395.7	5.3	9.0	-6.79	-13.5	452.6	304.5	296.0	8.51	35.780			
2,600.0	2,592.1	2,545.8	2,488.1	5.5	9.5	-6.74	-14.4	483.6	327.1	318.3	8.86	36.939			
2,700.0	2,691.6	2,643.2	2,580.4	5.7	10.1	-6.70	-15.4	514.6	349.8	340.6	9.20	38.011			
2,800.0	2,791.2	2,740.6	2,672.7	6.0	10.7	-6.67	-16.4	545.6	372.5	362.9	9.55	39.005			
2,900.0	2,890.7	2,838.0	2,765.1	6.2	11.3	-6.64	-17.3	576.5	395.1	385.2	9.90	39.930			
3,000.0	2,990.2	2,935.4	2,857.4	6.5	11.9	-6.61	-18.3	607.5	417.8	407.5	10.24	40.793			
3,100.0	3,089.8	3,032.8	2,949.7	6.7	12.5	-6.59	-19.2	638.5	440.4	429.8	10.59	41.599			
3,200.0	3,189.3	3,130.2	3,042.1	6.9	13.0	-6.57	-20.2	669.5	463.1	452.2	10.93	42.355			
3,300.0	3,288.9	3,227.6	3,134.4	7.2	13.6	-6.55	-21.2	700.5	485.7	474.5	11.28	43.064			
3,400.0	3,388.4	3,325.0	3,226.7	7.4	14.2	-6.53	-22.1	731.4	508.4	496.8	11.63	43.731			
3,500.0	3,487.9	3,422.4	3,319.1	7.7	14.8	-6.51	-23.1	762.4	531.1	519.1	11.97	44.359			
3,600.0	3,587.5	3,519.8	3,411.4	7.9	15.4	-6.50	-24.0	793.4	553.7	541.4	12.32	44.953			
3,700.0	3,687.0	3,617.2	3,503.7	8.1	16.0	-6.48	-25.0	824.4	576.4	563.7	12.66	45.514			
3,800.0	3,786.6	3,714.6	3,596.1	8.4	16.6	-6.47	-26.0	855.4	599.0	586.0	13.01	46.045			
3,900.0	3,886.1	3,812.0	3,688.4	8.6	17.2	-6.46	-26.9	886.4	621.7	608.3	13.36	46.548			
4,000.0	3,985.7	3,909.4	3,780.7	8.9	17.7	-6.45	-27.9	917.3	644.4	630.7	13.70	47.027			
4,100.0	4,085.2	4,006.8	3,873.1	9.1	18.3	-6.44	-28.9	948.3	667.0	653.0	14.05	47.482			
4,200.0	4,184.7	4,104.2	3,965.4	9.3	18.9	-6.43	-29.8	979.3	689.7	675.3	14.39	47.915			
4,300.0	4,284.3	4,201.6	4,057.8	9.6	19.5	-6.42	-30.8	1,010.3	712.3	697.6	14.74	48.327			
4,400.0	4,383.8	4,299.0	4,150.1	9.8	20.1	-6.41	-31.7	1,041.3	735.0	719.9	15.09	48.721			
4,500.0	4,483.4	4,396.4	4,242.4	10.1	20.7	-6.40	-32.7	1,072.2	757.7	742.2	15.43	49.097			
4,600.0	4,582.9	4,493.8	4,334.8	10.3	21.3	-6.39	-33.7	1,103.2	780.3	764.5	15.78	49.457			
4,700.0	4,682.5	4,591.2	4,427.1	10.5	21.9	-6.39	-34.6	1,134.2	803.0	786.8	16.12	49.802			
4,800.0	4,782.0	4,688.6	4,519.4	10.8	22.5	-6.38	-35.6	1,165.2	825.6	809.2	16.47	50.132			
4,900.0	4,881.5	4,786.0	4,611.8	11.0	23.1	-6.37	-36.5	1,196.2	848.3	831.5	16.82	50.448			
5,000.0	4,981.1	4,883.4	4,704.1	11.3	23.6	-6.37	-37.5	1,227.1	870.9	853.8	17.16	50.752			
5,100.0	5,080.6	4,980.8	4,796.4	11.5	24.2	-6.36	-38.5	1,258.1	893.6	876.1	17.51	51.043			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #4					Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD															Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
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	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)		(ft)	(ft)	(ft)							
5,200.0	5,180.2	5,078.2	4,888.8	11.8	24.8	-6.36	-39.4		1,289.1	916.3	898.4	17.85	51.324					
5,300.0	5,279.7	5,175.6	4,981.1	12.0	25.4	-6.35	-40.4		1,320.1	938.9	920.7	18.20	51.593					
5,400.0	5,379.3	5,273.0	5,073.4	12.2	26.0	-6.35	-41.4		1,351.1	961.6	943.0	18.54	51.853					
5,500.0	5,478.8	5,370.4	5,165.8	12.5	26.6	-6.34	-42.3		1,382.0	984.2	965.4	18.89	52.103					
5,600.0	5,578.3	5,467.8	5,258.1	12.7	27.2	-6.34	-43.3		1,413.0	1,006.9	987.7	19.24	52.345					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.4	-523.1	523.1				
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.4	-523.1	523.1	522.8	0.30	1,722.477	
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.4	-523.1	523.1	522.4	0.65	801.367 CC	
200.4	200.4	200.4	200.4	0.3	0.3	-89.96	0.4	-523.1	523.1	522.4	0.65	799.693	
300.0	300.0	300.0	300.0	0.5	0.5	-89.86	1.3	-523.1	523.1	522.1	1.00	521.680	
400.0	400.0	399.9	399.9	0.7	0.7	-89.58	3.9	-523.1	523.1	521.8	1.36	385.527	
500.0	500.0	499.7	499.6	0.8	0.9	-89.10	8.2	-523.1	523.2	521.4	1.72	304.373 ES	
600.0	600.0	599.3	599.0	1.0	1.1	175.43	14.3	-523.1	524.2	522.1	2.09	250.566	
700.0	700.0	698.9	698.3	1.2	1.3	176.25	21.7	-523.1	527.0	524.6	2.47	213.157	
800.0	799.9	798.5	797.6	1.4	1.5	177.09	29.2	-523.1	531.8	528.9	2.86	186.169	
900.0	899.7	898.0	896.8	1.6	1.7	177.92	36.7	-523.1	538.3	535.1	3.24	166.064	
1,000.0	999.4	997.3	995.8	1.8	1.9	178.73	44.2	-523.1	546.8	543.1	3.63	150.709	
1,100.0	1,098.9	1,096.5	1,094.8	2.0	2.1	179.52	51.7	-523.1	556.8	552.8	4.01	138.699	
1,200.0	1,198.5	1,195.7	1,193.7	2.2	2.3	-179.71	59.2	-523.1	567.2	562.8	4.40	128.858	
1,300.0	1,298.0	1,294.9	1,292.6	2.4	2.5	-178.97	66.7	-523.1	577.6	572.8	4.79	120.621	
1,400.0	1,397.6	1,394.0	1,391.5	2.7	2.8	-178.26	74.1	-523.1	588.1	583.0	5.18	113.630	
1,500.0	1,497.1	1,493.2	1,490.4	2.9	3.0	-177.58	81.6	-523.1	598.8	593.2	5.56	107.626	
1,600.0	1,596.6	1,592.4	1,589.3	3.1	3.2	-176.92	89.1	-523.1	609.5	603.5	5.95	102.416	
1,700.0	1,696.2	1,691.6	1,688.2	3.4	3.4	-176.28	96.6	-523.1	620.3	613.9	6.34	97.854	
1,800.0	1,795.7	1,790.8	1,787.1	3.6	3.6	-175.66	104.1	-523.1	631.1	624.4	6.73	93.828	
1,900.0	1,895.3	1,890.0	1,886.0	3.8	3.8	-175.06	111.6	-523.1	642.0	634.9	7.11	90.249	
2,000.0	1,994.8	1,989.1	1,984.9	4.1	4.1	-174.49	119.0	-523.1	653.0	645.5	7.50	87.048	
2,100.0	2,094.4	2,088.3	2,083.8	4.3	4.3	-173.93	126.5	-523.1	664.1	656.2	7.89	84.169	
2,200.0	2,193.9	2,187.5	2,182.7	4.5	4.5	-173.39	134.0	-523.1	675.2	666.9	8.28	81.566	
2,300.0	2,293.4	2,286.7	2,281.6	4.8	4.7	-172.87	141.5	-523.1	686.4	677.7	8.67	79.201	
2,400.0	2,393.0	2,385.9	2,380.5	5.0	4.9	-172.36	149.0	-523.1	697.6	688.6	9.05	77.045	
2,500.0	2,492.5	2,485.0	2,479.4	5.3	5.1	-171.87	156.4	-523.1	708.9	699.4	9.44	75.070	
2,600.0	2,592.1	2,584.2	2,578.3	5.5	5.4	-171.40	163.9	-523.1	720.2	710.4	9.83	73.255	
2,700.0	2,691.6	2,683.4	2,677.2	5.7	5.6	-170.94	171.4	-523.1	731.6	721.4	10.22	71.583	
2,800.0	2,791.2	2,782.6	2,776.1	6.0	5.8	-170.50	178.9	-523.1	743.0	732.4	10.61	70.036	
2,900.0	2,890.7	2,881.8	2,875.0	6.2	6.0	-170.07	186.4	-523.1	754.5	743.5	11.00	68.601	
3,000.0	2,990.2	2,981.0	2,973.8	6.5	6.2	-169.65	193.9	-523.1	766.0	754.6	11.39	67.267	
3,100.0	3,089.8	3,080.1	3,072.7	6.7	6.4	-169.24	201.3	-523.1	777.5	765.8	11.78	66.024	
3,200.0	3,189.3	3,179.3	3,171.6	6.9	6.7	-168.85	208.8	-523.1	789.1	777.0	12.17	64.863	
3,300.0	3,288.9	3,278.5	3,270.5	7.2	6.9	-168.46	216.3	-523.1	800.8	788.2	12.56	63.775	
3,400.0	3,388.4	3,377.7	3,369.4	7.4	7.1	-168.09	223.8	-523.1	812.4	799.5	12.95	62.755	
3,500.0	3,487.9	3,476.9	3,468.3	7.7	7.3	-167.73	231.3	-523.1	824.1	810.8	13.34	61.797	
3,600.0	3,587.5	3,576.0	3,567.2	7.9	7.5	-167.38	238.7	-523.1	835.8	822.1	13.73	60.895	
3,700.0	3,687.0	3,675.2	3,666.1	8.1	7.7	-167.04	246.2	-523.1	847.6	833.4	14.12	60.044	
3,800.0	3,786.6	3,774.4	3,765.0	8.4	8.0	-166.70	253.7	-523.1	859.3	844.8	14.51	59.240	
3,900.0	3,886.1	3,873.6	3,863.9	8.6	8.2	-166.38	261.2	-523.1	871.1	856.3	14.90	58.479	
4,000.0	3,985.7	3,972.8	3,962.8	8.9	8.4	-166.07	268.7	-523.1	883.0	867.7	15.29	57.759	
4,100.0	4,085.2	4,072.0	4,061.7	9.1	8.6	-165.76	276.2	-523.1	894.8	879.2	15.68	57.076	
4,200.0	4,184.7	4,171.1	4,160.6	9.3	8.8	-165.46	283.6	-523.1	906.7	890.7	16.07	56.427	
4,300.0	4,284.3	4,270.3	4,259.5	9.6	9.0	-165.17	291.1	-523.1	918.6	902.2	16.46	55.809	
4,400.0	4,383.8	4,369.5	4,358.4	9.8	9.2	-164.89	298.6	-523.1	930.6	913.7	16.85	55.222	
4,500.0	4,483.4	4,468.7	4,457.3	10.1	9.5	-164.61	306.1	-523.1	942.5	925.3	17.24	54.662	
4,600.0	4,582.9	4,567.9	4,556.2	10.3	9.7	-164.34	313.6	-523.1	954.5	936.8	17.63	54.127	
4,700.0	4,682.5	4,667.0	4,655.1	10.5	9.9	-164.08	321.0	-523.1	966.5	948.5	18.03	53.616	
4,800.0	4,782.0	4,766.2	4,754.0	10.8	10.1	-163.82	328.5	-523.1	978.5	960.1	18.42	53.128	
4,900.0	4,881.5	4,865.4	4,852.9	11.0	10.3	-163.57	336.0	-523.1	990.5	971.7	18.81	52.661	
5,000.0	4,981.1	4,964.6	4,951.8	11.3	10.5	-163.33	343.5	-523.1	1,002.6	983.4	19.20	52.214	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
5,100.0	5,080.6	5,063.8	5,050.7	11.5	10.8	-163.09	351.0	-523.1	1,014.6	995.0	19.59	51.785 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 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	-89.66	0.4	-64.9	64.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.66	0.4	-64.9	64.9	64.6	0.30	213.816		
200.0	200.0	200.0	200.0	0.3	0.3	-89.66	0.4	-64.9	64.9	64.3	0.65	99.476		
300.0	300.0	300.0	300.0	0.5	0.5	-89.66	0.4	-64.9	64.9	63.9	1.00	64.815 CC, ES		
400.0	400.0	399.3	399.3	0.7	0.7	-89.09	1.0	-65.5	65.5	64.1	1.35	48.519		
500.0	500.0	498.5	498.4	0.8	0.9	-87.43	3.0	-67.1	67.2	65.5	1.70	39.554		
600.0	600.0	597.5	597.4	1.0	1.0	179.01	6.3	-69.9	71.1	69.0	2.05	34.651		
700.0	700.0	696.2	695.9	1.2	1.2	-177.85	10.9	-73.7	78.1	75.7	2.41	32.466		
800.0	799.9	795.6	795.1	1.4	1.4	-174.93	16.2	-78.2	87.8	85.0	2.76	31.781		
900.0	899.7	894.9	894.1	1.6	1.6	-172.71	21.5	-82.6	99.4	96.3	3.12	31.866		
1,000.0	999.4	994.0	992.9	1.8	1.8	-171.08	26.8	-87.1	112.8	109.3	3.47	32.460		
1,100.0	1,098.9	1,092.8	1,091.5	2.0	2.0	-169.93	32.1	-91.5	127.7	123.9	3.83	33.345		
1,200.0	1,198.5	1,191.6	1,190.1	2.2	2.2	-169.04	37.3	-95.9	142.9	138.7	4.19	34.132		
1,300.0	1,298.0	1,291.7	1,289.9	2.4	2.5	-168.08	43.2	-99.9	157.8	153.2	4.55	34.652		
1,400.0	1,397.6	1,392.0	1,389.9	2.7	2.7	-166.76	50.2	-102.6	171.8	166.9	4.93	34.887		
1,500.0	1,497.1	1,491.8	1,489.4	2.9	2.9	-165.21	58.4	-104.1	185.3	180.0	5.30	34.949		
1,600.0	1,596.6	1,590.7	1,588.0	3.1	3.1	-163.80	66.6	-105.4	198.8	193.1	5.68	35.001		
1,700.0	1,696.2	1,689.7	1,686.6	3.4	3.3	-162.57	74.9	-106.6	212.3	206.3	6.06	35.053		
1,800.0	1,795.7	1,788.7	1,785.2	3.6	3.5	-161.48	83.1	-107.9	226.0	219.5	6.44	35.103		
1,900.0	1,895.3	1,887.7	1,883.9	3.8	3.8	-160.52	91.4	-109.2	239.7	232.9	6.82	35.150		
2,000.0	1,994.8	1,986.7	1,982.5	4.1	4.0	-159.67	99.6	-110.5	253.5	246.2	7.20	35.195		
2,100.0	2,094.4	2,085.6	2,081.1	4.3	4.2	-158.90	107.9	-111.8	267.3	259.7	7.59	35.236		
2,200.0	2,193.9	2,184.6	2,179.7	4.5	4.4	-158.21	116.1	-113.0	281.1	273.2	7.97	35.274		
2,300.0	2,293.4	2,283.6	2,278.4	4.8	4.6	-157.58	124.4	-114.3	295.0	286.7	8.36	35.310		
2,400.0	2,393.0	2,382.6	2,377.0	5.0	4.9	-157.01	132.6	-115.6	309.0	300.2	8.74	35.343		
2,500.0	2,492.5	2,481.6	2,475.6	5.3	5.1	-156.49	140.9	-116.9	322.9	313.8	9.13	35.374		
2,600.0	2,592.1	2,580.5	2,574.2	5.5	5.3	-156.01	149.1	-118.1	336.9	327.4	9.52	35.403		
2,700.0	2,691.6	2,679.5	2,672.9	5.7	5.5	-155.57	157.4	-119.4	350.9	341.0	9.90	35.430		
2,800.0	2,791.2	2,778.5	2,771.5	6.0	5.7	-155.16	165.6	-120.7	364.9	354.7	10.29	35.454		
2,900.0	2,890.7	2,877.5	2,870.1	6.2	6.0	-154.79	173.9	-122.0	379.0	368.3	10.68	35.478		
3,000.0	2,990.2	2,976.5	2,968.8	6.5	6.2	-154.44	182.1	-123.3	393.0	382.0	11.07	35.499		
3,100.0	3,089.8	3,075.4	3,067.4	6.7	6.4	-154.11	190.4	-124.5	407.1	395.6	11.46	35.520		
3,200.0	3,189.3	3,174.4	3,166.0	6.9	6.6	-153.81	198.6	-125.8	421.2	409.3	11.85	35.539		
3,300.0	3,288.9	3,273.4	3,264.6	7.2	6.9	-153.53	206.9	-127.1	435.3	423.0	12.24	35.557		
3,400.0	3,388.4	3,372.4	3,363.3	7.4	7.1	-153.26	215.2	-128.4	449.4	436.8	12.63	35.573		
3,500.0	3,487.9	3,471.3	3,461.9	7.7	7.3	-153.01	223.4	-129.6	463.5	450.5	13.02	35.589		
3,600.0	3,587.5	3,570.3	3,560.5	7.9	7.5	-152.77	231.7	-130.9	477.6	464.2	13.41	35.604		
3,700.0	3,687.0	3,669.3	3,659.1	8.1	7.8	-152.55	239.9	-132.2	491.7	477.9	13.81	35.618		
3,800.0	3,786.6	3,768.3	3,757.8	8.4	8.0	-152.34	248.2	-133.5	505.9	491.7	14.20	35.632		
3,900.0	3,886.1	3,867.3	3,856.4	8.6	8.2	-152.15	256.4	-134.7	520.0	505.4	14.59	35.644		
4,000.0	3,985.7	3,966.2	3,955.0	8.9	8.4	-151.96	264.7	-136.0	534.2	519.2	14.98	35.656		
4,100.0	4,085.2	4,065.2	4,053.7	9.1	8.7	-151.78	272.9	-137.3	548.3	532.9	15.37	35.668		
4,200.0	4,184.7	4,164.2	4,152.3	9.3	8.9	-151.61	281.2	-138.6	562.5	546.7	15.76	35.679		
4,300.0	4,284.3	4,263.2	4,250.9	9.6	9.1	-151.45	289.4	-139.9	576.6	560.5	16.16	35.689		
4,400.0	4,383.8	4,362.2	4,349.5	9.8	9.3	-151.30	297.7	-141.1	590.8	574.2	16.55	35.699		
4,500.0	4,483.4	4,461.1	4,448.2	10.1	9.6	-151.15	305.9	-142.4	605.0	588.0	16.94	35.708		
4,600.0	4,582.9	4,560.1	4,546.8	10.3	9.8	-151.01	314.2	-143.7	619.1	601.8	17.33	35.717		
4,700.0	4,682.5	4,659.1	4,645.4	10.5	10.0	-150.88	322.4	-145.0	633.3	615.6	17.73	35.726		
4,800.0	4,782.0	4,758.1	4,744.0	10.8	10.2	-150.75	330.7	-146.2	647.5	629.4	18.12	35.734		
4,900.0	4,881.5	4,857.1	4,842.7	11.0	10.5	-150.63	338.9	-147.5	661.7	643.1	18.51	35.742		
5,000.0	4,981.1	4,956.0	4,941.3	11.3	10.7	-150.52	347.2	-148.8	675.8	656.9	18.90	35.749		
5,100.0	5,080.6	5,055.0	5,039.9	11.5	10.9	-150.41	355.4	-150.1	690.0	670.7	19.30	35.757		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,180.2	5,154.0	5,138.5	11.8	11.1	-150.30	363.7	-151.4	704.2	684.5	19.69	35.764		
5,300.0	5,279.7	5,253.0	5,237.2	12.0	11.4	-150.20	371.9	-152.6	718.4	698.3	20.08	35.770		
5,400.0	5,379.3	5,352.0	5,335.8	12.2	11.6	-150.10	380.2	-153.9	732.6	712.1	20.48	35.777		
5,500.0	5,478.8	5,450.9	5,434.4	12.5	11.8	-150.00	388.4	-155.2	746.8	725.9	20.87	35.783		
5,600.0	5,578.3	5,549.9	5,533.1	12.7	12.0	-149.91	396.7	-156.5	761.0	739.7	21.26	35.789		
5,700.0	5,677.9	5,648.9	5,631.7	13.0	12.3	-149.82	405.0	-157.7	775.2	753.5	21.66	35.794		
5,800.0	5,777.4	5,747.9	5,730.3	13.2	12.5	-149.74	413.2	-159.0	789.4	767.3	22.05	35.800		
5,900.0	5,877.0	5,846.9	5,828.9	13.4	12.7	-149.65	421.5	-160.3	803.6	781.2	22.44	35.805		
6,000.0	5,976.5	5,945.8	5,927.6	13.7	12.9	-149.57	429.7	-161.6	817.8	795.0	22.84	35.810		
6,100.0	6,076.1	6,044.8	6,026.2	13.9	13.2	-149.50	438.0	-162.8	832.0	808.8	23.23	35.815		
6,200.0	6,175.6	6,143.8	6,124.8	14.2	13.4	-149.42	446.2	-164.1	846.2	822.6	23.62	35.820		
6,300.0	6,275.1	6,242.8	6,223.4	14.4	13.6	-149.35	454.5	-165.4	860.4	836.4	24.02	35.825		
6,400.0	6,374.7	6,341.8	6,322.1	14.6	13.8	-149.28	462.7	-166.7	874.6	850.2	24.41	35.829		
6,500.0	6,474.2	6,440.7	6,420.7	14.9	14.1	-149.22	471.0	-168.0	888.8	864.0	24.80	35.834		
6,600.0	6,573.8	6,539.7	6,519.3	15.1	14.3	-149.15	479.2	-169.2	903.1	877.9	25.20	35.838		
6,700.0	6,673.3	6,638.7	6,618.0	15.4	14.5	-149.09	487.5	-170.5	917.3	891.7	25.59	35.842		
6,800.0	6,772.9	6,737.7	6,716.6	15.6	14.7	-149.03	495.7	-171.8	931.5	905.5	25.99	35.846		
6,900.0	6,872.4	6,836.7	6,815.2	15.9	15.0	-148.97	504.0	-173.1	945.7	919.3	26.38	35.850		
7,000.0	6,971.9	7,848.9	7,500.0	16.1	13.9	-145.10	-61.7	-181.9	936.5	913.0	23.46	39.916		
7,100.0	7,070.0	7,780.7	7,495.9	16.3	13.7	-114.24	6.4	-181.9	892.7	868.5	24.20	36.893		
7,200.0	7,163.9	7,727.5	7,487.2	16.5	13.6	-106.12	58.8	-181.8	858.5	833.5	25.02	34.317		
7,300.0	7,250.6	7,676.1	7,474.1	16.8	13.6	-101.67	108.6	-181.6	834.5	808.7	25.80	32.341		
7,400.0	7,327.6	7,625.2	7,456.9	17.1	13.6	-97.86	156.4	-181.4	820.8	794.2	26.52	30.952		
7,493.5	7,388.7	7,577.8	7,437.1	17.5	13.7	-94.21	199.4	-181.1	816.8	789.7	27.12	30.121		
7,500.0	7,392.5	7,574.5	7,435.6	17.5	13.7	-93.95	202.3	-181.1	816.8	789.6	27.15	30.084		
7,600.0	7,443.4	7,524.0	7,410.4	18.1	13.8	-89.75	246.1	-180.8	821.4	793.7	27.71	29.638		
7,700.0	7,478.6	7,473.7	7,381.5	18.8	14.0	-85.32	287.3	-180.4	832.9	804.7	28.23	29.502 SF		
7,800.0	7,497.1	7,423.4	7,349.2	19.6	14.2	-80.83	325.8	-180.0	849.5	820.8	28.73	29.568		
7,900.0	7,500.0	7,374.0	7,314.2	20.5	14.3	-77.32	360.7	-179.5	869.6	840.4	29.21	29.772		
8,000.0	7,500.0	7,331.3	7,281.7	21.5	14.5	-75.19	388.4	-179.1	896.3	866.7	29.58	30.296		
8,100.0	7,500.0	7,300.0	7,256.7	22.7	14.6	-73.58	407.1	-178.8	930.3	900.5	29.83	31.184		
8,200.0	7,500.0	7,265.0	7,227.4	23.9	14.7	-71.72	426.3	-178.4	971.5	941.5	30.00	32.384		
8,300.0	7,500.0	7,250.0	7,214.6	25.1	14.8	-70.92	434.0	-178.2	1,019.6	989.5	30.09	33.889		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.60	0.4	-55.1	55.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.60	0.4	-55.1	55.1	54.8	0.30	181.560		
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.4	-55.1	55.1	54.5	0.65	84.469		
300.0	300.0	300.0	300.0	0.5	0.5	-89.60	0.4	-55.1	55.1	54.1	1.00	55.037		
400.0	400.0	400.0	400.0	0.7	0.7	-89.60	0.4	-55.1	55.1	53.8	1.35	40.816		
500.0	500.0	500.4	500.4	0.8	0.9	-88.77	1.2	-54.8	54.8	53.1	1.70	32.194		
565.7	565.7	566.4	566.4	1.0	1.0	176.58	2.6	-54.1	54.5	52.6	1.93	28.206 CC		
600.0	600.0	600.8	600.7	1.0	1.0	177.67	3.5	-53.6	54.6	52.5	2.05	26.581 ES		
700.0	700.0	701.0	700.9	1.2	1.2	-178.03	7.5	-51.7	55.7	53.3	2.41	23.094		
800.0	799.9	801.1	800.7	1.4	1.4	-172.45	13.0	-49.0	58.5	55.7	2.78	21.023		
900.0	899.7	900.9	900.3	1.6	1.6	-166.19	20.1	-45.6	63.2	60.1	3.16	19.977		
1,000.0	999.4	1,000.4	999.4	1.8	1.8	-160.66	27.8	-41.8	70.3	66.7	3.56	19.753		
1,100.0	1,098.9	1,099.9	1,098.5	2.0	2.0	-156.60	35.6	-38.0	79.2	75.2	3.96	20.023		
1,200.0	1,198.5	1,199.3	1,197.6	2.2	2.3	-153.45	43.4	-34.2	88.6	84.3	4.36	20.330		
1,300.0	1,298.0	1,298.8	1,296.7	2.4	2.5	-150.90	51.1	-30.4	98.3	93.5	4.77	20.610		
1,400.0	1,397.6	1,398.2	1,395.7	2.7	2.7	-148.82	58.9	-26.7	108.1	102.9	5.18	20.862		
1,500.0	1,497.1	1,497.7	1,494.8	2.9	2.9	-147.08	66.7	-22.9	118.0	112.4	5.60	21.086		
1,600.0	1,596.6	1,597.1	1,593.9	3.1	3.2	-145.62	74.4	-19.1	128.0	122.0	6.02	21.286		
1,700.0	1,696.2	1,696.6	1,692.9	3.4	3.4	-144.36	82.2	-15.3	138.1	131.7	6.44	21.464		
1,800.0	1,795.7	1,796.0	1,792.0	3.6	3.6	-143.28	89.9	-11.5	148.3	141.4	6.86	21.623		
1,900.0	1,895.3	1,895.5	1,891.1	3.8	3.8	-142.34	97.7	-7.8	158.5	151.2	7.28	21.766		
2,000.0	1,994.8	1,994.9	1,990.2	4.1	4.1	-141.51	105.5	-4.0	168.7	161.0	7.71	21.895		
2,100.0	2,094.4	2,094.4	2,089.2	4.3	4.3	-140.78	113.2	-0.2	179.0	170.8	8.13	22.011		
2,200.0	2,193.9	2,193.8	2,188.3	4.5	4.5	-140.12	121.0	3.6	189.2	180.7	8.56	22.117		
2,300.0	2,293.4	2,293.3	2,287.4	4.8	4.7	-139.53	128.8	7.3	199.6	190.6	8.98	22.213		
2,400.0	2,393.0	2,392.7	2,386.4	5.0	5.0	-139.00	136.5	11.1	209.9	200.5	9.41	22.302		
2,500.0	2,492.5	2,492.2	2,485.5	5.3	5.2	-138.52	144.3	14.9	220.2	210.4	9.84	22.383		
2,600.0	2,592.1	2,591.6	2,584.6	5.5	5.4	-138.09	152.1	18.7	230.6	220.3	10.27	22.457		
2,700.0	2,691.6	2,691.1	2,683.7	5.7	5.6	-137.69	159.8	22.5	240.9	230.3	10.70	22.526		
2,800.0	2,791.2	2,790.5	2,782.7	6.0	5.9	-137.32	167.6	26.2	251.3	240.2	11.13	22.590		
2,900.0	2,890.7	2,890.0	2,881.8	6.2	6.1	-136.99	175.4	30.0	261.7	250.2	11.56	22.649		
3,000.0	2,990.2	2,989.4	2,980.9	6.5	6.3	-136.67	183.1	33.8	272.1	260.1	11.98	22.704		
3,100.0	3,089.8	3,088.8	3,079.9	6.7	6.6	-136.39	190.9	37.6	282.5	270.1	12.42	22.756		
3,200.0	3,189.3	3,188.3	3,179.0	6.9	6.8	-136.12	198.7	41.4	292.9	280.1	12.85	22.804		
3,300.0	3,288.9	3,287.7	3,278.1	7.2	7.0	-135.87	206.4	45.1	303.3	290.1	13.28	22.849		
3,400.0	3,388.4	3,387.2	3,377.2	7.4	7.2	-135.64	214.2	48.9	313.8	300.1	13.71	22.891		
3,500.0	3,487.9	3,486.6	3,476.2	7.7	7.5	-135.42	222.0	52.7	324.2	310.1	14.14	22.931		
3,600.0	3,587.5	3,586.1	3,575.3	7.9	7.7	-135.21	229.7	56.5	334.6	320.1	14.57	22.969		
3,700.0	3,687.0	3,685.5	3,674.4	8.1	7.9	-135.02	237.5	60.2	345.1	330.1	15.00	23.004		
3,800.0	3,786.6	3,785.0	3,773.5	8.4	8.2	-134.84	245.2	64.0	355.5	340.1	15.43	23.038		
3,900.0	3,886.1	3,884.4	3,872.5	8.6	8.4	-134.67	253.0	67.8	365.9	350.1	15.86	23.069		
4,000.0	3,985.7	3,983.9	3,971.6	8.9	8.6	-134.51	260.8	71.6	376.4	360.1	16.29	23.099		
4,100.0	4,085.2	4,083.3	4,070.7	9.1	8.9	-134.36	268.5	75.4	386.8	370.1	16.73	23.128		
4,200.0	4,184.7	4,182.8	4,169.7	9.3	9.1	-134.21	276.3	79.1	397.3	380.1	17.16	23.155		
4,300.0	4,284.3	4,282.2	4,268.8	9.6	9.3	-134.08	284.1	82.9	407.7	390.1	17.59	23.181		
4,400.0	4,383.8	4,381.7	4,367.9	9.8	9.5	-133.95	291.8	86.7	418.2	400.2	18.02	23.205		
4,500.0	4,483.4	4,481.1	4,467.0	10.1	9.8	-133.82	299.6	90.5	428.6	410.2	18.45	23.229		
4,600.0	4,582.9	4,580.6	4,566.0	10.3	10.0	-133.70	307.4	94.3	439.1	420.2	18.88	23.251		
4,700.0	4,682.5	4,680.0	4,665.1	10.5	10.2	-133.59	315.1	98.0	449.6	430.2	19.32	23.273		
4,800.0	4,782.0	4,779.5	4,764.2	10.8	10.5	-133.48	322.9	101.8	460.0	440.3	19.75	23.293		
4,900.0	4,881.5	4,878.9	4,863.2	11.0	10.7	-133.38	330.7	105.6	470.5	450.3	20.18	23.313		
5,000.0	4,981.1	4,978.4	4,962.3	11.3	10.9	-133.28	338.4	109.4	480.9	460.3	20.61	23.332		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,080.6	5,077.8	5,061.4	11.5	11.1	-133.19	346.2	113.1	491.4	470.4	21.05	23.350	
5,200.0	5,180.2	5,177.2	5,160.5	11.8	11.4	-133.10	354.0	116.9	501.9	480.4	21.48	23.367	
5,300.0	5,279.7	5,276.7	5,259.5	12.0	11.6	-133.01	361.7	120.7	512.4	490.4	21.91	23.384	
5,400.0	5,379.3	5,376.1	5,358.6	12.2	11.8	-132.93	369.5	124.5	522.8	500.5	22.34	23.400	
5,500.0	5,478.8	5,475.6	5,457.7	12.5	12.1	-132.85	377.3	128.3	533.3	510.5	22.78	23.415	
5,600.0	5,578.3	5,575.0	5,556.7	12.7	12.3	-132.78	385.0	132.0	543.8	520.6	23.21	23.430	
5,700.0	5,677.9	5,674.5	5,655.8	13.0	12.5	-132.70	392.8	135.8	554.2	530.6	23.64	23.444	
5,800.0	5,777.4	5,773.9	5,754.9	13.2	12.8	-132.63	400.5	139.6	564.7	540.6	24.07	23.458	
5,900.0	5,877.0	5,873.4	5,854.0	13.4	13.0	-132.56	408.3	143.4	575.2	550.7	24.51	23.472	
6,000.0	5,976.5	5,972.8	5,953.0	13.7	13.2	-132.50	416.1	147.2	585.7	560.7	24.94	23.485	
6,100.0	6,076.1	6,072.3	6,052.1	13.9	13.4	-132.43	423.8	150.9	596.1	570.8	25.37	23.497	
6,200.0	6,175.6	6,171.7	6,151.2	14.2	13.7	-132.37	431.6	154.7	606.6	580.8	25.80	23.509	
6,300.0	6,275.1	6,271.2	6,250.3	14.4	13.9	-132.31	439.4	158.5	617.1	590.9	26.24	23.521	
6,400.0	6,374.7	6,370.6	6,349.3	14.6	14.1	-132.26	447.1	162.3	627.6	600.9	26.67	23.532	
6,500.0	6,474.2	6,470.1	6,448.4	14.9	14.4	-132.20	454.9	166.1	638.0	610.9	27.10	23.543	
6,600.0	6,573.8	6,569.5	6,547.5	15.1	14.6	-132.15	462.7	169.8	648.5	621.0	27.53	23.553	
6,700.0	6,673.3	6,669.0	6,646.5	15.4	14.8	-132.09	470.4	173.6	659.0	631.0	27.97	23.564	
6,800.0	6,772.9	6,768.4	6,745.6	15.6	15.1	-132.04	478.2	177.4	669.5	641.1	28.40	23.574	
6,900.0	6,872.4	6,867.9	6,844.7	15.9	15.3	-132.00	486.0	181.2	680.0	651.1	28.83	23.583	
7,000.0	6,971.9	6,967.4	6,943.9	16.1	15.5	-88.52	493.7	184.9	688.8	659.6	29.29	23.521	
7,100.0	7,070.0	7,066.8	7,042.9	16.3	15.7	-58.52	501.5	188.7	685.7	655.8	29.82	22.991	
7,200.0	7,163.9	7,328.8	7,303.0	16.5	16.0	-58.86	493.2	198.6	667.1	637.0	30.10	22.162	
7,300.0	7,250.6	7,642.0	7,572.5	16.8	15.2	-88.01	341.5	208.9	604.4	577.6	26.74	22.601	
7,400.0	7,327.6	7,665.8	7,588.9	17.1	15.1	-97.18	324.4	209.6	541.7	514.4	27.35	19.807	
7,500.0	7,392.5	7,646.2	7,575.4	17.5	15.2	-99.51	338.5	209.0	490.9	462.3	28.60	17.165	
7,600.0	7,443.4	7,613.0	7,551.4	18.1	15.3	-98.37	361.5	208.1	456.4	426.7	29.67	15.382	
7,700.0	7,478.6	7,573.7	7,521.4	18.8	15.4	-94.79	386.9	207.0	440.6	410.4	30.17	14.604	
7,734.3	7,486.9	7,559.3	7,510.1	19.0	15.5	-93.10	395.6	206.5	439.5	409.3	30.20	14.553 SF	
7,800.0	7,497.1	7,531.2	7,487.1	19.6	15.6	-89.34	411.9	205.7	443.2	413.2	30.02	14.766	
7,900.0	7,500.0	7,487.9	7,450.4	20.5	15.7	-83.61	434.7	204.3	461.9	432.4	29.45	15.685	
8,000.0	7,500.0	7,450.0	7,416.9	21.5	15.8	-79.40	452.3	203.0	495.9	467.2	28.67	17.298	
8,100.0	7,500.0	7,424.0	7,393.2	22.7	15.8	-76.51	463.1	202.1	543.7	515.8	27.93	19.464	
8,200.0	7,500.0	7,400.0	7,371.0	23.9	15.9	-73.87	472.1	201.2	602.8	575.4	27.40	22.004	
8,300.0	7,500.0	7,381.9	7,354.0	25.1	15.9	-71.91	478.2	200.6	670.5	643.5	27.08	24.763	
8,400.0	7,500.0	7,366.0	7,338.8	26.4	15.9	-70.20	483.2	200.0	744.8	717.9	26.93	27.656	
8,500.0	7,500.0	7,350.0	7,323.6	27.8	16.0	-68.51	487.8	199.4	824.0	797.1	26.89	30.640	
8,600.0	7,500.0	7,350.0	7,323.6	29.2	16.0	-68.51	487.8	199.4	907.0	880.0	27.03	33.549	
8,700.0	7,500.0	7,330.7	7,304.9	30.7	16.0	-66.51	492.8	198.7	992.7	965.6	27.09	36.643	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.52	0.4	-45.1	45.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.52	0.4	-45.1	45.1	44.8	0.30	148.383		
200.0	200.0	200.0	200.0	0.3	0.3	-89.52	0.4	-45.1	45.1	44.4	0.65	69.034		
300.0	300.0	300.0	300.0	0.5	0.5	-89.52	0.4	-45.1	45.1	44.1	1.00	44.980		
400.0	400.0	400.0	400.0	0.7	0.7	-89.52	0.4	-45.1	45.1	43.7	1.35	33.358		
500.0	500.0	500.0	500.0	0.8	0.8	-89.52	0.4	-45.1	45.1	43.4	1.70	26.508 CC		
600.0	600.0	600.5	600.5	1.0	1.0	175.31	1.1	-44.5	45.4	43.3	2.05	22.138 ES		
700.0	700.0	700.9	700.9	1.2	1.2	178.15	3.1	-42.8	46.4	44.0	2.40	19.331		
800.0	799.9	801.3	801.2	1.4	1.4	-177.43	6.5	-40.0	48.4	45.7	2.76	17.551		
900.0	899.7	901.5	901.2	1.6	1.6	-171.86	11.2	-36.1	51.6	48.5	3.12	16.522		
1,000.0	999.4	1,001.6	1,001.0	1.8	1.8	-165.71	17.3	-31.1	56.3	52.8	3.51	16.074		
1,100.0	1,098.9	1,101.5	1,100.4	2.0	2.0	-159.48	24.7	-25.0	62.6	58.7	3.91	16.019		
1,200.0	1,198.5	1,201.2	1,199.4	2.2	2.2	-153.10	33.5	-17.8	69.5	65.1	4.34	15.998		
1,300.0	1,298.0	1,300.6	1,298.1	2.4	2.5	-147.28	42.8	-10.1	77.0	72.2	4.79	16.070		
1,400.0	1,397.6	1,400.1	1,396.8	2.7	2.7	-142.53	52.2	-2.4	85.2	80.0	5.25	16.225		
1,500.0	1,497.1	1,499.5	1,495.5	2.9	3.0	-138.64	61.6	5.3	93.9	88.2	5.72	16.422		
1,600.0	1,596.6	1,598.9	1,594.2	3.1	3.3	-135.41	70.9	13.1	102.9	96.7	6.18	16.637		
1,700.0	1,696.2	1,698.4	1,692.9	3.4	3.5	-132.71	80.3	20.8	112.2	105.5	6.66	16.858		
1,800.0	1,795.7	1,797.8	1,791.6	3.6	3.8	-130.42	89.7	28.5	121.7	114.6	7.13	17.076		
1,900.0	1,895.3	1,897.3	1,890.3	3.8	4.0	-128.47	99.1	36.2	131.4	123.8	7.60	17.286		
2,000.0	1,994.8	1,996.7	1,989.0	4.1	4.3	-126.78	108.4	43.9	141.2	133.1	8.07	17.487		
2,100.0	2,094.4	2,096.1	2,087.7	4.3	4.6	-125.32	117.8	51.7	151.1	142.5	8.55	17.677		
2,200.0	2,193.9	2,195.6	2,186.4	4.5	4.8	-124.04	127.2	59.4	161.1	152.0	9.02	17.857		
2,300.0	2,293.4	2,295.0	2,285.1	4.8	5.1	-122.90	136.5	67.1	171.1	161.6	9.49	18.026		
2,400.0	2,393.0	2,394.5	2,383.8	5.0	5.4	-121.90	145.9	74.8	181.2	171.3	9.97	18.184		
2,500.0	2,492.5	2,493.9	2,482.5	5.3	5.6	-121.00	155.3	82.5	191.4	181.0	10.44	18.333		
2,600.0	2,592.1	2,593.3	2,581.2	5.5	5.9	-120.19	164.7	90.2	201.6	190.7	10.91	18.473		
2,700.0	2,691.6	2,692.8	2,679.9	5.7	6.2	-119.46	174.0	98.0	211.9	200.5	11.39	18.605		
2,800.0	2,791.2	2,792.2	2,778.6	6.0	6.5	-118.79	183.4	105.7	222.2	210.3	11.86	18.728		
2,900.0	2,890.7	2,891.6	2,877.3	6.2	6.7	-118.19	192.8	113.4	232.5	220.1	12.34	18.845		
3,000.0	2,990.2	2,991.1	2,975.9	6.5	7.0	-117.63	202.1	121.1	242.8	230.0	12.81	18.954		
3,100.0	3,089.8	3,090.5	3,074.6	6.7	7.3	-117.12	211.5	128.8	253.1	239.9	13.28	19.058		
3,200.0	3,189.3	3,190.0	3,173.3	6.9	7.5	-116.66	220.9	136.6	263.5	249.8	13.76	19.155		
3,300.0	3,288.9	3,289.4	3,272.0	7.2	7.8	-116.22	230.3	144.3	273.9	259.7	14.23	19.248		
3,400.0	3,388.4	3,388.8	3,370.7	7.4	8.1	-115.82	239.6	152.0	284.3	269.6	14.70	19.335		
3,500.0	3,487.9	3,488.3	3,469.4	7.7	8.4	-115.45	249.0	159.7	294.7	279.5	15.18	19.418		
3,600.0	3,587.5	3,587.7	3,568.1	7.9	8.6	-115.10	258.4	167.4	305.1	289.5	15.65	19.496		
3,700.0	3,687.0	3,687.2	3,666.8	8.1	8.9	-114.78	267.7	175.2	315.6	299.4	16.12	19.571		
3,800.0	3,786.6	3,786.6	3,765.5	8.4	9.2	-114.47	277.1	182.9	326.0	309.4	16.60	19.642		
3,900.0	3,886.1	3,886.0	3,864.2	8.6	9.4	-114.19	286.5	190.6	336.5	319.4	17.07	19.710		
4,000.0	3,985.7	3,985.5	3,962.9	8.9	9.7	-113.92	295.9	198.3	346.9	329.4	17.54	19.774		
4,100.0	4,085.2	4,084.9	4,061.6	9.1	10.0	-113.67	305.2	206.0	357.4	339.4	18.02	19.835		
4,200.0	4,184.7	4,184.4	4,160.3	9.3	10.3	-113.43	314.6	213.7	367.9	349.4	18.49	19.894		
4,300.0	4,284.3	4,283.8	4,259.0	9.6	10.5	-113.21	324.0	221.5	378.3	359.4	18.96	19.950		
4,400.0	4,383.8	4,383.2	4,357.7	9.8	10.8	-112.99	333.3	229.2	388.8	369.4	19.44	20.003		
4,500.0	4,483.4	4,482.7	4,456.4	10.1	11.1	-112.79	342.7	236.9	399.3	379.4	19.91	20.055		
4,600.0	4,582.9	4,582.1	4,555.1	10.3	11.4	-112.60	352.1	244.6	409.8	389.4	20.38	20.104		
4,700.0	4,682.5	4,681.5	4,653.8	10.5	11.6	-112.42	361.5	252.3	420.3	399.4	20.86	20.151		
4,800.0	4,782.0	4,781.0	4,752.5	10.8	11.9	-112.25	370.8	260.1	430.8	409.5	21.33	20.196		
4,900.0	4,881.5	4,880.4	4,851.1	11.0	12.2	-112.08	380.2	267.8	441.3	419.5	21.80	20.240		
5,000.0	4,981.1	4,979.9	4,949.8	11.3	12.4	-111.93	389.6	275.5	451.8	429.5	22.28	20.281		
5,100.0	5,080.6	5,079.3	5,048.5	11.5	12.7	-111.78	398.9	283.2	462.3	439.6	22.75	20.322		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,180.2	5,178.7	5,147.2	11.8	13.0	-111.63	408.3	290.9	472.9	449.6	23.22	20.360	
5,300.0	5,279.7	5,278.2	5,245.9	12.0	13.3	-111.50	417.7	298.7	483.4	459.7	23.70	20.397	
5,400.0	5,379.3	5,377.6	5,344.6	12.2	13.5	-111.37	427.1	306.4	493.9	469.7	24.17	20.433	
5,500.0	5,478.8	5,477.1	5,443.3	12.5	13.8	-111.24	436.4	314.1	504.4	479.8	24.64	20.468	
5,600.0	5,578.3	5,576.5	5,542.0	12.7	14.1	-111.12	445.8	321.8	514.9	489.8	25.12	20.501	
5,700.0	5,677.9	5,675.9	5,640.7	13.0	14.4	-111.00	455.2	329.5	525.5	499.9	25.59	20.534	
5,800.0	5,777.4	5,775.4	5,739.4	13.2	14.6	-110.89	464.5	337.2	536.0	509.9	26.06	20.565	
5,900.0	5,877.0	5,874.8	5,838.1	13.4	14.9	-110.79	473.9	345.0	546.5	520.0	26.54	20.595	
6,000.0	5,976.5	5,974.2	5,936.8	13.7	15.2	-110.68	483.3	352.7	557.1	530.1	27.01	20.624	
6,100.0	6,076.1	6,073.7	6,035.5	13.9	15.5	-110.58	492.7	360.4	567.6	540.1	27.48	20.652	
6,200.0	6,175.6	6,173.1	6,134.2	14.2	15.7	-110.49	502.0	368.1	578.1	550.2	27.96	20.680	
6,300.0	6,275.1	6,272.6	6,232.9	14.4	16.0	-110.40	511.4	375.8	588.7	560.2	28.43	20.706	
6,400.0	6,374.7	6,372.0	6,331.6	14.6	16.3	-110.31	520.8	383.6	599.2	570.3	28.90	20.732	
6,500.0	6,474.2	6,471.4	6,430.3	14.9	16.6	-110.22	530.1	391.3	609.8	580.4	29.38	20.757	
6,600.0	6,573.8	6,570.9	6,529.0	15.1	16.8	-110.14	539.5	399.0	620.3	590.5	29.85	20.781	
6,700.0	6,673.3	6,670.3	6,627.7	15.4	17.1	-110.06	548.9	406.7	630.8	600.5	30.32	20.804	
6,800.0	6,772.9	6,769.8	6,726.3	15.6	17.4	-109.98	558.3	414.4	641.4	610.6	30.80	20.827	
6,900.0	6,872.4	6,869.2	6,823.0	15.9	17.6	-109.90	567.7	422.1	652.1	621.7	31.28	20.850	
7,000.0	6,971.9	6,968.6	6,923.5	16.1	17.8	-109.82	577.1	429.8	662.8	632.8	31.76	20.873	
7,100.0	7,071.4	7,068.0	7,022.0	16.3	18.0	-109.74	586.5	437.5	673.5	643.9	32.24	20.896	
7,200.0	7,169.9	7,166.5	7,119.5	16.5	18.2	-109.66	595.9	445.2	684.2	655.0	32.72	20.919	
7,300.0	7,259.4	7,255.9	7,207.4	16.8	18.5	-109.58	605.3	452.9	694.9	666.1	33.20	20.942	
7,400.0	7,358.9	7,355.3	7,300.0	17.0	18.7	-109.50	614.7	460.6	705.6	677.2	33.68	20.965	
7,500.0	7,458.4	7,454.7	7,392.0	17.3	19.0	-109.42	624.1	468.3	716.3	688.3	34.16	20.988	
7,575.1	7,432.1	7,428.5	7,448.5	17.9	19.6	-96.36	239.6	470.9	168.4	140.6	27.88	6.042 SF	
7,600.0	7,443.4	7,440.0	7,442.1	18.1	19.8	-92.06	253.2	470.4	169.6	141.9	27.71	6.119	
7,700.0	7,478.6	7,475.0	7,413.7	18.8	20.5	-74.73	304.8	468.2	193.8	168.2	25.66	7.553	
7,800.0	7,497.1	7,493.0	7,382.8	19.6	21.3	-60.06	349.6	465.8	237.3	213.4	23.92	9.923	
7,900.0	7,500.0	7,442.1	7,345.6	20.5	22.2	-49.96	393.8	462.9	288.4	265.1	23.30	12.377	
8,000.0	7,500.0	7,400.0	7,315.7	21.5	23.2	-45.34	423.4	460.5	348.8	325.2	23.66	14.745	
8,100.0	7,500.0	7,350.0	7,277.7	22.7	24.2	-40.48	455.6	457.6	417.4	393.5	23.92	17.451	
8,200.0	7,500.0	7,319.8	7,253.4	23.9	25.3	-37.87	473.4	455.7	492.1	467.4	24.75	19.886	
8,300.0	7,500.0	7,300.0	7,236.9	25.1	26.6	-36.30	484.4	454.4	571.6	545.9	25.68	22.256	
8,400.0	7,500.0	7,265.7	7,207.6	26.4	28.1	-33.79	502.1	452.1	654.3	628.2	26.14	25.033	
8,500.0	7,500.0	7,250.0	7,193.8	27.8	29.7	-32.74	509.5	451.0	739.9	713.1	26.86	27.546	
8,600.0	7,500.0	7,225.2	7,171.7	29.2	31.1	-31.18	520.5	449.3	827.5	800.2	27.31	30.306	
8,700.0	7,500.0	7,200.0	7,148.7	30.7	32.7	-29.73	530.7	447.5	917.0	889.4	27.67	33.137	
8,800.0	7,500.0	7,200.0	7,148.7	32.1	34.3	-29.73	530.7	447.5	1,007.7	979.4	28.33	35.572	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	-89.98	0.0	-35.0	35.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-35.0	35.0	34.7	0.30	115.200		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-35.0	35.0	34.3	0.65	53.596		
300.0	300.0	300.0	300.0	0.5	0.5	-89.98	0.0	-35.0	35.0	34.0	1.00	34.921		
400.0	400.0	400.0	400.0	0.7	0.7	-89.98	0.0	-35.0	35.0	33.6	1.35	25.898		
500.0	500.0	500.0	500.0	0.8	0.8	-89.98	0.0	-35.0	35.0	33.3	1.70	20.580 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	174.02	0.0	-35.0	35.9	33.8	2.05	17.498		
700.0	700.0	700.0	700.0	1.2	1.2	174.43	0.0	-35.0	38.5	36.1	2.40	16.037		
800.0	799.9	799.9	799.9	1.4	1.4	174.99	0.0	-35.0	42.8	40.1	2.75	15.581		
900.0	899.7	899.7	899.7	1.6	1.5	175.61	0.0	-35.0	48.9	45.8	3.10	15.791		
1,000.0	999.4	999.4	999.4	1.8	1.7	176.21	0.0	-35.0	56.7	53.3	3.44	16.465		
1,100.0	1,098.9	1,099.8	1,099.8	2.0	1.9	177.26	0.6	-34.3	65.4	61.6	3.79	17.238		
1,200.0	1,198.5	1,200.3	1,200.3	2.2	2.1	179.02	2.2	-32.3	73.1	68.9	4.15	17.625		
1,300.0	1,298.0	1,301.0	1,300.9	2.4	2.3	-178.65	5.0	-28.8	79.5	75.0	4.50	17.684		
1,400.0	1,397.6	1,401.8	1,401.4	2.7	2.4	-175.78	8.9	-24.0	85.0	80.1	4.86	17.499		
1,500.0	1,497.1	1,502.5	1,501.9	2.9	2.6	-172.37	13.9	-17.9	89.5	84.3	5.23	17.135		
1,600.0	1,596.6	1,603.2	1,602.0	3.1	2.8	-168.41	20.0	-10.3	93.4	87.8	5.61	16.642		
1,700.0	1,696.2	1,703.7	1,701.9	3.4	3.1	-163.89	27.2	-1.4	96.8	90.8	6.02	16.068		
1,800.0	1,795.7	1,804.0	1,801.4	3.6	3.3	-158.78	35.4	8.8	100.0	93.6	6.47	15.456		
1,900.0	1,895.3	1,904.1	1,900.3	3.8	3.6	-153.14	44.8	20.4	103.4	96.5	6.96	14.852		
2,000.0	1,994.8	2,003.5	1,998.5	4.1	3.9	-147.44	54.7	32.5	107.6	100.1	7.49	14.367		
2,100.0	2,094.4	2,102.8	2,096.6	4.3	4.1	-142.21	64.5	44.7	112.7	104.7	8.03	14.038		
2,200.0	2,193.9	2,202.2	2,194.7	4.5	4.4	-137.47	74.4	56.9	118.7	110.1	8.58	13.835		
2,300.0	2,293.4	2,301.6	2,292.8	4.8	4.7	-133.20	84.3	69.1	125.4	116.3	9.13	13.732		
2,400.0	2,393.0	2,400.9	2,390.9	5.0	5.0	-129.39	94.1	81.3	132.7	123.1	9.68	13.708		
2,500.0	2,492.5	2,500.3	2,489.0	5.3	5.3	-125.98	104.0	93.5	140.6	130.4	10.23	13.743		
2,600.0	2,592.1	2,599.6	2,587.2	5.5	5.6	-122.94	113.9	105.7	148.9	138.2	10.78	13.822		
2,700.0	2,691.6	2,699.0	2,685.3	5.7	5.9	-120.23	123.7	117.9	157.6	146.3	11.31	13.934		
2,800.0	2,791.2	2,798.3	2,783.4	6.0	6.2	-117.81	133.6	130.1	166.6	154.8	11.84	14.068		
2,900.0	2,890.7	2,897.7	2,881.5	6.2	6.5	-115.63	143.5	142.3	175.9	163.5	12.37	14.219		
3,000.0	2,990.2	2,997.1	2,979.6	6.5	6.8	-113.68	153.3	154.5	185.4	172.5	12.89	14.381		
3,100.0	3,089.8	3,096.4	3,077.7	6.7	7.1	-111.92	163.2	166.7	195.1	181.7	13.41	14.550		
3,200.0	3,189.3	3,195.8	3,175.8	6.9	7.5	-110.32	173.1	178.9	204.9	191.0	13.92	14.722		
3,300.0	3,288.9	3,295.1	3,273.9	7.2	7.8	-108.87	183.0	191.1	214.9	200.5	14.43	14.895		
3,400.0	3,388.4	3,394.5	3,372.0	7.4	8.1	-107.55	192.8	203.3	225.1	210.1	14.94	15.068		
3,500.0	3,487.9	3,493.8	3,470.2	7.7	8.4	-106.35	202.7	215.5	235.3	219.9	15.44	15.239		
3,600.0	3,587.5	3,593.2	3,568.3	7.9	8.7	-105.25	212.6	227.7	245.6	229.7	15.94	15.408		
3,700.0	3,687.0	3,692.6	3,666.4	8.1	9.0	-104.23	222.4	239.9	256.0	239.6	16.44	15.574		
3,800.0	3,786.6	3,791.9	3,764.5	8.4	9.4	-103.30	232.3	252.1	266.5	249.6	16.94	15.735		
3,900.0	3,886.1	3,891.3	3,862.6	8.6	9.7	-102.43	242.2	264.3	277.1	259.6	17.43	15.893		
4,000.0	3,985.7	3,990.6	3,960.7	8.9	10.0	-101.63	252.0	276.5	287.7	269.8	17.93	16.047		
4,100.0	4,085.2	4,090.0	4,058.8	9.1	10.3	-100.89	261.9	288.7	298.3	279.9	18.42	16.196		
4,200.0	4,184.7	4,189.4	4,156.9	9.3	10.6	-100.19	271.8	300.9	309.0	290.1	18.91	16.341		
4,300.0	4,284.3	4,288.7	4,255.1	9.6	10.9	-99.55	281.6	313.1	319.8	300.4	19.40	16.482		
4,400.0	4,383.8	4,388.1	4,353.2	9.8	11.3	-98.94	291.5	325.2	330.6	310.7	19.89	16.618		
4,500.0	4,483.4	4,487.4	4,451.3	10.1	11.6	-98.38	301.4	337.4	341.4	321.0	20.38	16.751		
4,600.0	4,582.9	4,586.8	4,549.4	10.3	11.9	-97.84	311.2	349.6	352.2	331.4	20.87	16.879		
4,700.0	4,682.5	4,686.1	4,647.5	10.5	12.2	-97.34	321.1	361.8	363.1	341.8	21.36	17.003		
4,800.0	4,782.0	4,785.5	4,745.6	10.8	12.5	-96.87	331.0	374.0	374.0	352.2	21.84	17.123		
4,900.0	4,881.5	4,884.9	4,843.7	11.0	12.9	-96.43	340.9	386.2	385.0	362.6	22.33	17.239		
5,000.0	4,981.1	4,984.2	4,941.8	11.3	13.2	-96.01	350.7	398.4	395.9	373.1	22.82	17.352		
5,100.0	5,080.6	5,083.6	5,039.9	11.5	13.5	-95.61	360.6	410.6	406.9	383.6	23.30	17.461		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3										Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,200.0	5,180.2	5,182.9	5,138.1	11.8	13.8	-95.24	370.5	422.8	417.9	394.1	23.79	17.567	
5,300.0	5,279.7	5,282.3	5,236.2	12.0	14.2	-94.88	380.3	435.0	428.9	404.6	24.27	17.670	
5,400.0	5,379.3	5,381.7	5,334.3	12.2	14.5	-94.54	390.2	447.2	439.9	415.1	24.76	17.769	
5,500.0	5,478.8	5,481.0	5,432.4	12.5	14.8	-94.22	400.1	459.4	450.9	425.7	25.24	17.866	
5,600.0	5,578.3	5,580.4	5,530.5	12.7	15.1	-93.91	409.9	471.6	462.0	436.2	25.72	17.959	
5,700.0	5,677.9	5,679.7	5,628.6	13.0	15.4	-93.62	419.8	483.8	473.0	446.8	26.21	18.050	
5,800.0	5,777.4	5,779.1	5,726.7	13.2	15.8	-93.34	429.7	496.0	484.1	457.4	26.69	18.138	
5,900.0	5,877.0	5,878.4	5,824.8	13.4	16.1	-93.08	439.5	508.2	495.2	468.0	27.17	18.223	
6,000.0	5,976.5	5,977.8	5,923.0	13.7	16.4	-92.82	449.4	520.4	506.3	478.6	27.66	18.306	
6,100.0	6,076.1	6,077.2	6,021.1	13.9	16.7	-92.58	459.3	532.6	517.4	489.2	28.14	18.387	
6,200.0	6,175.6	6,176.5	6,119.2	14.2	17.1	-92.34	469.1	544.8	528.5	499.9	28.62	18.465	
6,300.0	6,275.1	6,275.9	6,217.3	14.4	17.4	-92.12	479.0	557.0	539.6	510.5	29.10	18.541	
6,400.0	6,374.7	6,375.2	6,315.4	14.6	17.7	-91.90	488.9	569.2	550.7	521.1	29.58	18.615	
6,500.0	6,474.2	6,474.6	6,413.5	14.9	18.0	-91.70	498.8	581.4	561.9	531.8	30.07	18.687	
6,600.0	6,573.8	6,574.0	6,511.6	15.1	18.4	-91.50	508.6	593.6	573.0	542.5	30.55	18.757	
6,700.0	6,673.3	6,673.3	6,609.7	15.4	18.7	-91.31	518.5	605.8	584.2	553.1	31.03	18.825	
6,800.0	6,772.9	6,772.7	6,707.8	15.6	19.0	-91.12	528.4	617.9	595.3	563.8	31.51	18.892	
6,900.0	6,872.4	6,872.0	6,806.0	15.9	19.3	-90.95	538.2	630.1	606.5	574.5	31.99	18.956	
7,000.0	6,971.9	6,971.6	6,904.2	16.1	19.7	-47.47	548.1	642.4	615.7	583.2	32.47	18.961	
7,100.0	7,070.0	7,071.2	7,002.6	16.3	20.0	-16.13	558.0	654.6	609.9	576.9	32.91	18.529	
7,200.0	7,163.9	7,168.3	7,098.5	16.5	20.3	-7.31	567.7	666.5	586.9	553.6	33.30	17.623	
7,300.0	7,250.6	7,821.2	7,653.0	16.8	20.2	83.52	309.4	757.4	505.9	483.1	22.80	22.186	
7,400.0	7,327.6	7,784.4	7,632.6	17.1	20.3	108.71	339.7	752.6	408.4	384.6	23.80	17.160	
7,500.0	7,392.5	7,738.2	7,604.4	17.5	20.3	117.74	375.7	746.4	313.0	288.2	24.84	12.602	
7,600.0	7,443.4	7,690.1	7,572.0	18.1	20.4	118.06	410.6	739.7	221.6	196.1	25.48	8.696	
7,700.0	7,478.6	7,641.3	7,536.2	18.8	20.5	109.65	443.1	732.7	138.4	112.9	25.43	5.442	
7,800.0	7,497.1	7,592.1	7,497.4	19.6	20.6	88.58	472.5	725.6	81.3	52.9	28.40	2.862	
7,829.0	7,499.6	7,578.0	7,485.9	19.8	20.6	79.76	480.3	723.5	77.2	45.5	31.71	2.434 SF	
7,900.0	7,500.0	7,543.9	7,457.1	20.5	20.6	58.78	498.0	718.5	98.2	61.1	37.01	2.652	
8,000.0	7,500.0	7,500.0	7,418.7	21.5	20.7	38.25	518.2	712.0	168.4	131.5	36.84	4.570	
8,100.0	7,500.0	7,475.0	7,396.2	22.7	20.7	30.14	528.3	708.4	253.0	216.0	36.96	6.846	
8,200.0	7,500.0	7,450.0	7,373.2	23.9	20.7	24.03	537.4	704.7	343.0	306.2	36.77	9.328	
8,300.0	7,500.0	7,431.3	7,355.7	25.1	20.7	20.43	543.6	702.0	435.6	398.8	36.78	11.844	
8,400.0	7,500.0	7,415.0	7,340.4	26.4	20.7	17.83	548.5	699.6	529.8	493.0	36.81	14.393	
8,500.0	7,500.0	7,400.0	7,326.1	27.8	20.7	15.78	552.6	697.5	625.2	588.3	36.85	16.964	
8,600.0	7,500.0	7,400.0	7,326.1	29.2	20.7	15.78	552.6	697.5	721.5	684.3	37.16	19.418	
8,700.0	7,500.0	7,379.7	7,306.6	30.7	20.7	13.43	557.6	694.5	818.1	781.0	37.06	22.073	
8,800.0	7,500.0	7,371.0	7,298.2	32.1	20.7	12.55	559.5	693.3	915.3	878.1	37.16	24.629	
8,900.0	7,500.0	7,350.0	7,277.9	33.6	20.7	10.69	563.6	690.4	1,013.1	976.0	37.09	27.317	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 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	0.0	-24.9	24.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-24.9	24.9	24.6	0.30	82.023		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-24.9	24.9	24.3	0.65	38.160		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-24.9	24.9	23.9	1.00	24.864		
400.0	400.0	400.4	400.4	0.7	0.7	-89.11	0.4	-24.1	24.1	22.8	1.35	17.839		
500.0	500.0	500.7	500.7	0.8	0.9	-86.21	1.4	-21.7	21.8	20.1	1.70	12.782		
600.0	600.0	601.0	600.8	1.0	1.0	-176.04	3.2	-17.7	18.9	16.8	2.05	9.178		
700.0	700.0	701.1	700.8	1.2	1.2	-164.84	5.7	-12.1	16.7	14.3	2.42	6.908		
787.6	787.5	788.7	788.2	1.4	1.4	-150.91	8.4	-5.9	16.0	13.2	2.76	5.789 CC		
800.0	799.9	801.2	800.5	1.4	1.5	-148.72	8.9	-4.9	16.0	13.2	2.81	5.692 ES		
900.0	899.7	901.1	900.0	1.6	1.7	-131.12	12.8	3.9	17.4	14.2	3.24	5.373 SF		
1,000.0	999.4	1,001.0	999.2	1.8	1.9	-116.69	17.3	14.3	21.0	17.3	3.70	5.690		
1,100.0	1,098.9	1,100.7	1,098.1	2.0	2.2	-106.39	22.6	26.2	26.4	22.2	4.17	6.334		
1,200.0	1,198.5	1,200.2	1,196.5	2.2	2.5	-97.25	28.6	39.6	33.0	28.3	4.64	7.107		
1,300.0	1,298.0	1,299.4	1,294.4	2.4	2.8	-89.14	35.2	54.6	41.0	35.9	5.10	8.032		
1,400.0	1,397.6	1,398.4	1,391.7	2.7	3.1	-82.18	42.5	71.1	50.6	45.0	5.55	9.118		
1,500.0	1,497.1	1,497.0	1,488.3	2.9	3.5	-76.32	50.4	89.0	61.8	55.9	5.97	10.356		
1,600.0	1,596.6	1,596.2	1,585.4	3.1	3.9	-71.93	58.6	107.6	74.0	67.6	6.39	11.584		
1,700.0	1,696.2	1,695.3	1,682.4	3.4	4.3	-68.78	66.9	126.2	86.5	79.7	6.81	12.705		
1,800.0	1,795.7	1,794.4	1,779.4	3.6	4.6	-66.44	75.1	144.8	99.2	91.9	7.23	13.719		
1,900.0	1,895.3	1,893.5	1,876.4	3.8	5.0	-64.63	83.3	163.4	112.0	104.3	7.65	14.636		
2,000.0	1,994.8	1,992.6	1,973.4	4.1	5.4	-63.19	91.5	182.0	124.8	116.8	8.07	15.464		
2,100.0	2,094.4	2,091.8	2,070.4	4.3	5.8	-62.02	99.8	200.6	137.8	129.3	8.50	16.215		
2,200.0	2,193.9	2,190.9	2,167.4	4.5	6.2	-61.05	108.0	219.2	150.8	141.9	8.92	16.898		
2,300.0	2,293.4	2,290.0	2,264.5	4.8	6.6	-60.24	116.2	237.8	163.8	154.5	9.35	17.521		
2,400.0	2,393.0	2,389.1	2,361.5	5.0	7.0	-59.54	124.4	256.4	176.9	167.1	9.78	18.091		
2,500.0	2,492.5	2,488.3	2,458.5	5.3	7.4	-58.94	132.7	275.0	190.0	179.8	10.21	18.614		
2,600.0	2,592.1	2,587.4	2,555.5	5.5	7.8	-58.42	140.9	293.6	203.1	192.4	10.63	19.095		
2,700.0	2,691.6	2,686.5	2,652.5	5.7	8.2	-57.96	149.1	312.2	216.2	205.1	11.06	19.540		
2,800.0	2,791.2	2,785.6	2,749.5	6.0	8.6	-57.56	157.3	330.8	229.3	217.8	11.49	19.952		
2,900.0	2,890.7	2,884.7	2,846.5	6.2	9.0	-57.19	165.6	349.4	242.4	230.5	11.92	20.335		
3,000.0	2,990.2	2,983.9	2,943.5	6.5	9.4	-56.87	173.8	368.0	255.6	243.2	12.35	20.691		
3,100.0	3,089.8	3,083.0	3,040.6	6.7	9.8	-56.58	182.0	386.6	268.7	256.0	12.78	21.023		
3,200.0	3,189.3	3,182.1	3,137.6	6.9	10.1	-56.31	190.2	405.2	281.9	268.7	13.21	21.334		
3,300.0	3,288.9	3,281.2	3,234.6	7.2	10.5	-56.07	198.5	423.8	295.1	281.4	13.64	21.625		
3,400.0	3,388.4	3,380.4	3,331.6	7.4	10.9	-55.85	206.7	442.4	308.2	294.2	14.08	21.899		
3,500.0	3,487.9	3,479.5	3,428.6	7.7	11.3	-55.64	214.9	461.0	321.4	306.9	14.51	22.156		
3,600.0	3,587.5	3,578.6	3,525.6	7.9	11.7	-55.46	223.1	479.6	334.6	319.7	14.94	22.398		
3,700.0	3,687.0	3,677.7	3,622.6	8.1	12.1	-55.28	231.4	498.2	347.8	332.4	15.37	22.627		
3,800.0	3,786.6	3,776.8	3,719.7	8.4	12.5	-55.12	239.6	516.8	361.0	345.2	15.80	22.843		
3,900.0	3,886.1	3,876.0	3,816.7	8.6	12.9	-54.97	247.8	535.4	374.1	357.9	16.23	23.048		
4,000.0	3,985.7	3,975.1	3,913.7	8.9	13.3	-54.84	256.0	554.0	387.3	370.7	16.67	23.242		
4,100.0	4,085.2	4,074.2	4,010.7	9.1	13.7	-54.71	264.3	572.6	400.5	383.4	17.10	23.426		
4,200.0	4,184.7	4,173.3	4,107.7	9.3	14.1	-54.58	272.5	591.2	413.7	396.2	17.53	23.602		
4,300.0	4,284.3	4,272.5	4,204.7	9.6	14.5	-54.47	280.7	609.8	426.9	408.9	17.96	23.769		
4,400.0	4,383.8	4,371.6	4,301.7	9.8	14.9	-54.36	288.9	628.4	440.1	421.7	18.39	23.928		
4,500.0	4,483.4	4,470.7	4,398.7	10.1	15.3	-54.26	297.2	647.1	453.3	434.5	18.83	24.079		
4,600.0	4,582.9	4,569.8	4,495.8	10.3	15.7	-54.17	305.4	665.7	466.5	447.2	19.26	24.224		
4,700.0	4,682.5	4,668.9	4,592.8	10.5	16.1	-54.08	313.6	684.3	479.7	460.0	19.69	24.362		
4,800.0	4,782.0	4,768.1	4,689.8	10.8	16.5	-53.99	321.8	702.9	492.9	472.8	20.12	24.495		
4,900.0	4,881.5	4,867.2	4,786.8	11.0	16.9	-53.91	330.1	721.5	506.1	485.5	20.56	24.622		
5,000.0	4,981.1	4,966.3	4,883.8	11.3	17.3	-53.83	338.3	740.1	519.3	498.3	20.99	24.744		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,080.6	5,065.4	4,980.8	11.5	17.7	-53.76	346.5	758.7	532.5	511.1	21.42	24.860		
5,200.0	5,180.2	5,164.6	5,077.8	11.8	18.1	-53.69	354.7	777.3	545.7	523.9	21.85	24.972		
5,300.0	5,279.7	5,263.7	5,174.9	12.0	18.5	-53.63	363.0	795.9	558.9	536.6	22.29	25.080		
5,400.0	5,379.3	5,362.8	5,271.9	12.2	18.9	-53.56	371.2	814.5	572.1	549.4	22.72	25.184		
5,500.0	5,478.8	5,461.9	5,368.9	12.5	19.3	-53.50	379.4	833.1	585.3	562.2	23.15	25.284		
5,600.0	5,578.3	5,561.0	5,465.9	12.7	19.7	-53.45	387.6	851.7	598.5	575.0	23.58	25.380		
5,700.0	5,677.9	5,660.2	5,562.9	13.0	20.1	-53.39	395.9	870.3	611.7	587.7	24.02	25.472		
5,800.0	5,777.4	5,759.3	5,659.9	13.2	20.5	-53.34	404.1	888.9	625.0	600.5	24.45	25.562		
5,900.0	5,877.0	5,858.4	5,756.9	13.4	20.9	-53.29	412.3	907.5	638.2	613.3	24.88	25.648		
6,000.0	5,976.5	5,957.5	5,853.9	13.7	21.3	-53.24	420.6	926.1	651.4	626.1	25.31	25.731		
6,100.0	6,076.1	6,056.7	5,951.0	13.9	21.7	-53.19	428.8	944.7	664.6	638.8	25.75	25.811		
6,200.0	6,175.6	6,155.8	6,048.0	14.2	22.1	-53.15	437.0	963.3	677.8	651.6	26.18	25.889		
6,300.0	6,275.1	6,254.9	6,145.0	14.4	22.5	-53.11	445.2	981.9	691.0	664.4	26.61	25.964		
6,400.0	6,374.7	6,354.0	6,242.0	14.6	22.9	-53.06	453.5	1,000.5	704.2	677.2	27.05	26.037		
6,500.0	6,474.2	6,453.1	6,339.0	14.9	23.3	-53.02	461.7	1,019.1	717.4	689.9	27.48	26.108		
6,600.0	6,573.8	6,552.3	6,436.0	15.1	23.7	-52.99	469.9	1,037.7	730.6	702.7	27.91	26.176		
6,700.0	6,673.3	6,651.4	6,533.0	15.4	24.1	-52.95	478.1	1,056.3	743.8	715.5	28.35	26.242		
6,800.0	6,772.9	6,750.5	6,630.1	15.6	24.5	-52.91	486.4	1,074.9	757.1	728.3	28.78	26.307		
6,900.0	6,872.4	6,849.6	6,727.1	15.9	24.9	-52.88	494.6	1,093.5	770.3	741.1	29.21	26.369		
7,000.0	6,971.9	6,948.9	6,824.2	16.1	25.3	-9.76	502.8	1,112.1	782.0	752.4	29.59	26.427		
7,100.0	7,070.0	7,047.1	6,921.4	16.3	25.7	53.66	511.0	1,130.7	795.1	765.5	30.02	26.485		
7,200.0	7,169.9	7,146.1	7,021.5	16.5	26.1	75.97	519.1	1,149.2	808.2	778.6	30.45	26.543		
7,300.0	7,269.8	7,245.0	7,116.6	16.8	26.5	82.18	527.2	1,167.7	821.3	791.7	30.88	26.601		
7,400.0	7,369.7	7,344.1	7,211.1	17.1	26.9	84.16	535.3	1,186.2	834.4	804.8	31.31	26.659		
7,500.0	7,469.6	7,443.0	7,306.6	17.5	27.3	83.61	543.4	1,204.7	847.5	817.9	31.74	26.717		
7,600.0	7,569.5	7,542.1	7,396.9	18.1	27.7	81.20	551.5	1,223.2	860.6	831.0	32.17	26.775		
7,644.4	7,461.0	7,556.7	7,363.5	18.4	26.3	79.65	311.5	1,215.5	581.9	553.4	28.42	20.472		
7,700.0	7,478.6	7,529.9	7,345.8	18.8	26.3	77.35	331.5	1,212.1	583.7	554.1	29.58	19.734		
7,800.0	7,497.1	7,481.3	7,311.6	19.6	26.3	72.46	365.3	1,205.5	594.9	562.7	32.19	18.483		
7,900.0	7,500.0	7,433.4	7,275.2	20.5	26.3	67.84	395.6	1,198.6	614.5	579.4	35.18	17.468		
8,000.0	7,500.0	7,400.0	7,248.4	21.5	26.3	65.28	414.9	1,193.4	644.5	606.1	38.40	16.783		
8,100.0	7,500.0	7,359.9	7,214.8	22.7	26.3	62.16	435.9	1,187.0	684.8	643.8	41.02	16.693		
8,200.0	7,500.0	7,332.3	7,191.0	23.9	26.3	60.00	448.9	1,182.4	734.6	691.2	43.39	16.929		
8,300.0	7,500.0	7,300.0	7,162.3	25.1	26.2	57.47	462.6	1,176.9	792.6	747.5	45.12	17.568		
8,400.0	7,500.0	7,300.0	7,162.3	26.4	26.2	57.47	462.6	1,176.9	857.2	810.2	47.01	18.236		
8,500.0	7,500.0	7,272.8	7,137.6	27.8	26.2	55.36	472.9	1,172.2	927.3	879.3	47.96	19.334		
8,600.0	7,500.0	7,250.0	7,116.5	29.2	26.2	53.62	480.6	1,168.1	1,002.1	953.4	48.71	20.573		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.92	0.0	-15.1	15.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.92	0.0	-15.1	15.1	14.8	0.30	49.767		
200.0	200.0	200.0	200.0	0.3	0.3	-89.92	0.0	-15.1	15.1	14.5	0.65	23.153		
300.0	300.0	300.2	300.2	0.5	0.5	-88.77	0.3	-14.3	14.3	13.3	1.00	14.257		
400.0	400.0	400.4	400.4	0.7	0.7	-84.37	1.2	-11.8	11.9	10.5	1.35	8.772		
500.0	500.0	500.5	500.3	0.8	0.9	-71.35	2.6	-7.7	8.1	6.4	1.71	4.743		
600.0	600.0	600.4	600.1	1.0	1.1	-126.73	4.6	-1.9	5.4	3.3	2.09	2.592		
605.7	605.7	606.1	605.8	1.0	1.1	-123.43	4.7	-1.5	5.4	3.3	2.12	2.559	CC, ES, SF	
700.0	700.0	700.2	699.6	1.2	1.3	-80.79	7.1	5.5	7.8	5.3	2.46	3.167		
800.0	799.9	799.9	798.8	1.4	1.5	-64.63	10.2	14.6	13.0	10.2	2.81	4.629		
900.0	899.7	899.5	897.7	1.6	1.8	-59.53	13.9	25.2	19.2	16.0	3.18	6.035		
1,000.0	999.4	998.9	996.3	1.8	2.0	-58.11	18.1	37.5	26.0	22.4	3.58	7.272		
1,100.0	1,098.9	1,098.2	1,094.5	2.0	2.3	-57.87	22.9	51.3	33.5	29.5	3.99	8.388		
1,200.0	1,198.5	1,197.3	1,192.2	2.2	2.7	-56.71	28.2	66.7	42.3	37.9	4.41	9.603		
1,300.0	1,298.0	1,296.0	1,289.3	2.4	3.0	-54.99	34.1	83.7	52.6	47.8	4.81	10.933		
1,400.0	1,397.6	1,394.4	1,385.8	2.7	3.4	-53.10	40.4	102.2	64.5	59.2	5.21	12.367		
1,500.0	1,497.1	1,492.4	1,481.5	2.9	3.8	-51.24	47.3	122.1	77.9	72.3	5.60	13.893		
1,600.0	1,596.6	1,589.9	1,576.3	3.1	4.2	-49.49	54.7	143.5	92.9	86.9	5.99	15.504		
1,700.0	1,696.2	1,688.5	1,672.0	3.4	4.6	-48.01	62.4	166.0	108.8	102.4	6.38	17.045		
1,800.0	1,795.7	1,787.2	1,767.8	3.6	5.1	-46.91	70.2	188.5	124.8	118.0	6.78	18.407		
1,900.0	1,895.3	1,885.9	1,863.6	3.8	5.5	-46.06	77.9	211.0	140.8	133.6	7.18	19.619		
2,000.0	1,994.8	1,984.6	1,959.4	4.1	6.0	-45.38	85.7	233.5	156.8	149.3	7.58	20.703		
2,100.0	2,094.4	2,083.3	2,055.1	4.3	6.4	-44.83	93.4	256.0	172.9	164.9	7.98	21.677		
2,200.0	2,193.9	2,182.0	2,150.9	4.5	6.9	-44.37	101.2	278.5	189.0	180.6	8.38	22.558		
2,300.0	2,293.4	2,280.7	2,246.7	4.8	7.3	-43.98	108.9	301.0	205.0	196.3	8.78	23.358		
2,400.0	2,393.0	2,379.4	2,342.5	5.0	7.8	-43.65	116.7	323.5	221.1	212.0	9.18	24.087		
2,500.0	2,492.5	2,478.1	2,438.3	5.3	8.2	-43.37	124.4	346.0	237.2	227.6	9.58	24.755		
2,600.0	2,592.1	2,576.7	2,534.0	5.5	8.7	-43.12	132.2	368.5	253.3	243.3	9.99	25.368		
2,700.0	2,691.6	2,675.4	2,629.8	5.7	9.1	-42.90	140.0	391.0	269.4	259.0	10.39	25.933		
2,800.0	2,791.2	2,774.1	2,725.6	6.0	9.6	-42.70	147.7	413.5	285.5	274.7	10.79	26.456		
2,900.0	2,890.7	2,872.8	2,821.4	6.2	10.0	-42.53	155.5	436.0	301.6	290.4	11.20	26.940		
3,000.0	2,990.2	2,971.5	2,917.1	6.5	10.5	-42.37	163.2	458.5	317.8	306.2	11.60	27.391		
3,100.0	3,089.8	3,070.2	3,012.9	6.7	11.0	-42.23	171.0	481.0	333.9	321.9	12.00	27.811		
3,200.0	3,189.3	3,168.9	3,108.7	6.9	11.4	-42.10	178.7	503.5	350.0	337.6	12.41	28.203		
3,300.0	3,288.9	3,267.6	3,204.5	7.2	11.9	-41.99	186.5	526.0	366.1	353.3	12.81	28.571		
3,400.0	3,388.4	3,366.3	3,300.2	7.4	12.3	-41.88	194.2	548.5	382.2	369.0	13.22	28.916		
3,500.0	3,487.9	3,465.0	3,396.0	7.7	12.8	-41.78	202.0	571.0	398.3	384.7	13.62	29.240		
3,600.0	3,587.5	3,563.6	3,491.8	7.9	13.2	-41.69	209.7	593.5	414.5	400.4	14.03	29.545		
3,700.0	3,687.0	3,662.3	3,587.6	8.1	13.7	-41.61	217.5	616.0	430.6	416.2	14.43	29.833		
3,800.0	3,786.6	3,761.0	3,683.4	8.4	14.1	-41.53	225.2	638.5	446.7	431.9	14.84	30.105		
3,900.0	3,886.1	3,859.7	3,779.1	8.6	14.6	-41.46	233.0	661.0	462.8	447.6	15.24	30.363		
4,000.0	3,985.7	3,958.4	3,874.9	8.9	15.1	-41.39	240.7	683.5	479.0	463.3	15.65	30.607		
4,100.0	4,085.2	4,057.1	3,970.7	9.1	15.5	-41.33	248.5	706.0	495.1	479.0	16.05	30.839		
4,200.0	4,184.7	4,155.8	4,066.5	9.3	16.0	-41.27	256.3	728.5	511.2	494.7	16.46	31.059		
4,300.0	4,284.3	4,254.5	4,162.2	9.6	16.4	-41.21	264.0	751.0	527.3	510.5	16.86	31.269		
4,400.0	4,383.8	4,353.2	4,258.0	9.8	16.9	-41.16	271.8	773.5	543.5	526.2	17.27	31.468		
4,500.0	4,483.4	4,451.9	4,353.8	10.1	17.4	-41.11	279.5	796.1	559.6	541.9	17.68	31.659		
4,600.0	4,582.9	4,550.5	4,449.6	10.3	17.8	-41.06	287.3	818.6	575.7	557.6	18.08	31.841		
4,700.0	4,682.5	4,649.2	4,545.3	10.5	18.3	-41.02	295.0	841.1	591.8	573.4	18.49	32.015		
4,800.0	4,782.0	4,747.9	4,641.1	10.8	18.7	-40.98	302.8	863.6	608.0	589.1	18.89	32.181		
4,900.0	4,881.5	4,846.6	4,736.9	11.0	19.2	-40.94	310.5	886.1	624.1	604.8	19.30	32.340		
5,000.0	4,981.1	4,945.3	4,832.7	11.3	19.6	-40.90	318.3	908.6	640.2	620.5	19.70	32.493		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,080.6	5,044.0	4,928.5	11.5	20.1	-40.87	326.0	931.1	656.4	636.2	20.11	32.639		
5,200.0	5,180.2	5,142.7	5,024.2	11.8	20.6	-40.83	333.8	953.6	672.5	652.0	20.51	32.780		
5,300.0	5,279.7	5,241.4	5,120.0	12.0	21.0	-40.80	341.5	976.1	688.6	667.7	20.92	32.915		
5,400.0	5,379.3	5,340.1	5,215.8	12.2	21.5	-40.77	349.3	998.6	704.7	683.4	21.33	33.045		
5,500.0	5,478.8	5,438.8	5,311.6	12.5	21.9	-40.74	357.0	1,021.1	720.9	699.1	21.73	33.170		
5,600.0	5,578.3	5,537.4	5,407.3	12.7	22.4	-40.71	364.8	1,043.6	737.0	714.9	22.14	33.291		
5,700.0	5,677.9	5,636.1	5,503.1	13.0	22.9	-40.69	372.6	1,066.1	753.1	730.6	22.54	33.407		
5,800.0	5,777.4	5,734.8	5,598.9	13.2	23.3	-40.66	380.3	1,088.6	769.3	746.3	22.95	33.519		
5,900.0	5,877.0	5,833.5	5,694.7	13.4	23.8	-40.63	388.1	1,111.1	785.4	762.0	23.36	33.627		
6,000.0	5,976.5	5,932.2	5,790.4	13.7	24.2	-40.61	395.8	1,133.6	801.5	777.8	23.76	33.732		
6,100.0	6,076.1	6,030.9	5,886.2	13.9	24.7	-40.59	403.6	1,156.1	817.6	793.5	24.17	33.832		
6,200.0	6,175.6	6,129.6	5,982.0	14.2	25.1	-40.57	411.3	1,178.6	833.8	809.2	24.57	33.930		
6,300.0	6,275.1	6,228.3	6,077.8	14.4	25.6	-40.54	419.1	1,201.1	849.9	824.9	24.98	34.024		
6,400.0	6,374.7	6,327.0	6,173.6	14.6	26.1	-40.52	426.8	1,223.6	866.0	840.7	25.39	34.116		
6,500.0	6,474.2	6,425.7	6,269.3	14.9	26.5	-40.50	434.6	1,246.1	882.2	856.4	25.79	34.204		
6,600.0	6,573.8	6,524.3	6,365.1	15.1	27.0	-40.49	442.3	1,268.6	898.3	872.1	26.20	34.290		
6,700.0	6,673.3	6,623.0	6,460.9	15.4	27.4	-40.47	450.1	1,291.1	914.4	887.8	26.60	34.373		
6,800.0	6,772.9	6,721.7	6,556.7	15.6	27.9	-40.45	457.8	1,313.6	930.6	903.6	27.01	34.453		
6,900.0	6,872.4	6,820.4	6,652.4	15.9	28.4	-40.43	465.6	1,336.1	946.7	919.3	27.42	34.531		
7,000.0	6,971.9	6,919.2	6,748.3	16.1	28.8	2.46	473.4	1,358.6	961.7	933.9	27.77	34.634		
7,100.0	7,070.0	7,017.9	6,844.1	16.3	29.3	33.75	481.1	1,381.1	968.1	940.3	27.80	34.828		
7,200.0	7,163.9	7,113.7	6,937.1	16.5	29.7	43.72	488.6	1,403.0	965.1	937.6	27.50	35.091		
7,300.0	7,250.6	7,203.7	7,024.4	16.8	30.1	50.41	495.7	1,423.5	953.8	926.9	26.96	35.376		
7,400.0	7,327.6	7,285.2	7,103.5	17.1	30.5	56.61	502.1	1,442.1	936.5	910.1	26.35	35.535		
7,500.0	7,392.5	7,403.5	7,218.5	17.5	31.0	65.25	505.5	1,469.1	914.9	888.8	26.11	35.035		
7,600.0	7,443.4	7,481.3	7,293.5	18.1	31.3	72.83	495.2	1,486.7	891.5	865.0	26.50	33.644		
7,700.0	7,478.6	7,502.5	7,313.6	18.8	31.3	76.35	490.6	1,491.5	874.0	846.0	27.96	31.262		
7,800.0	7,497.1	7,497.2	7,308.6	19.6	31.3	77.08	491.8	1,490.3	865.0	834.5	30.51	28.349		
7,843.8	7,500.5	7,490.7	7,302.4	20.0	31.3	76.72	493.2	1,488.8	864.1	832.2	31.92	27.067		
7,900.0	7,500.0	7,479.3	7,291.6	20.5	31.3	76.04	495.6	1,486.3	865.3	831.4	33.87	25.551		
8,000.0	7,500.0	7,464.1	7,277.0	21.5	31.2	75.05	498.4	1,482.9	876.3	838.7	37.64	23.280		
8,100.0	7,500.0	7,450.0	7,263.5	22.7	31.2	74.13	500.6	1,479.7	898.1	856.7	41.43	21.676		
8,200.0	7,500.0	7,450.0	7,263.5	23.9	31.2	74.13	500.6	1,479.7	930.1	885.0	45.10	20.623		
8,300.0	7,500.0	7,436.0	7,250.0	25.1	31.1	73.21	502.5	1,476.5	971.2	923.0	48.20	20.151		
8,400.0	7,500.0	7,429.9	7,244.1	26.4	31.1	72.81	503.2	1,475.1	1,020.4	969.5	50.91	20.043		

Cathedral Energy Services

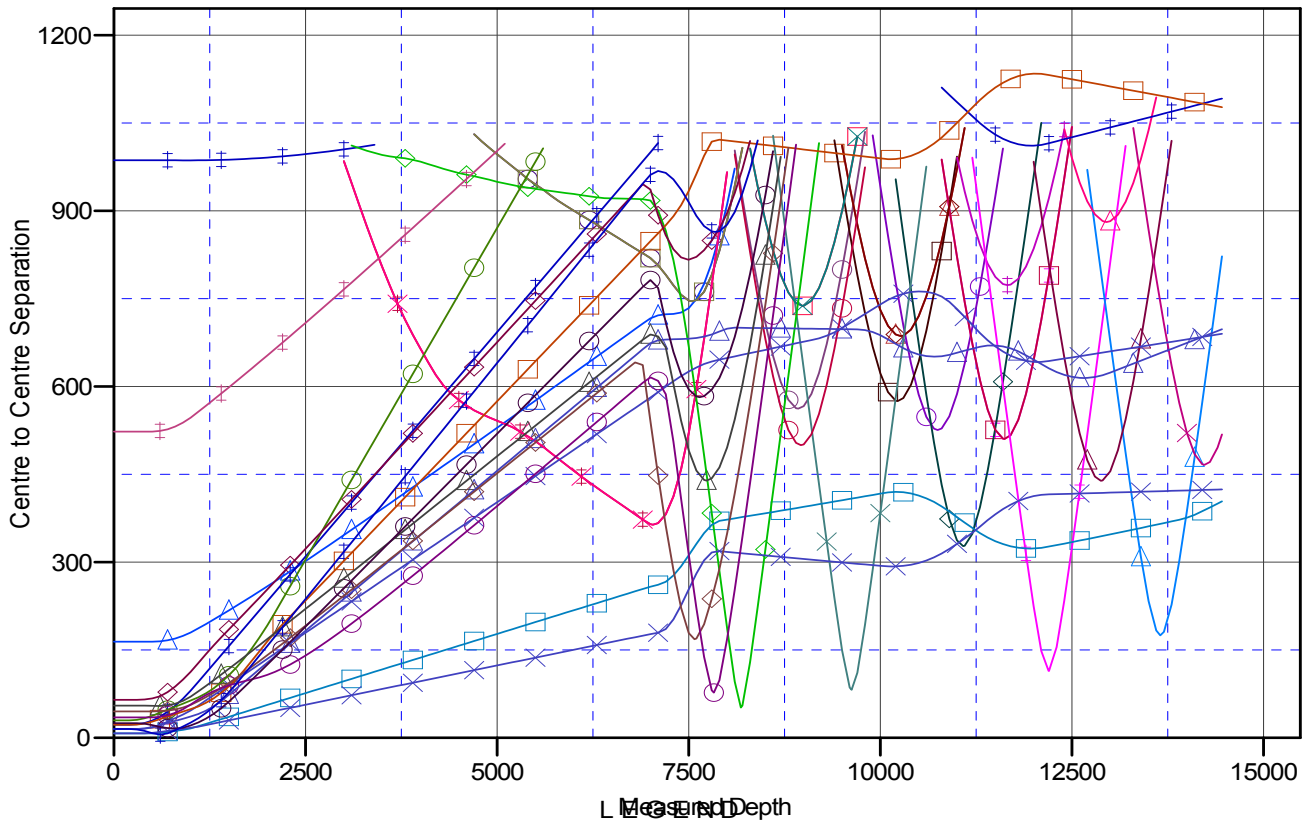
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2D-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2D-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #5	Offset TVD Reference:	Offset Datum

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

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

Ladder Plot



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

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