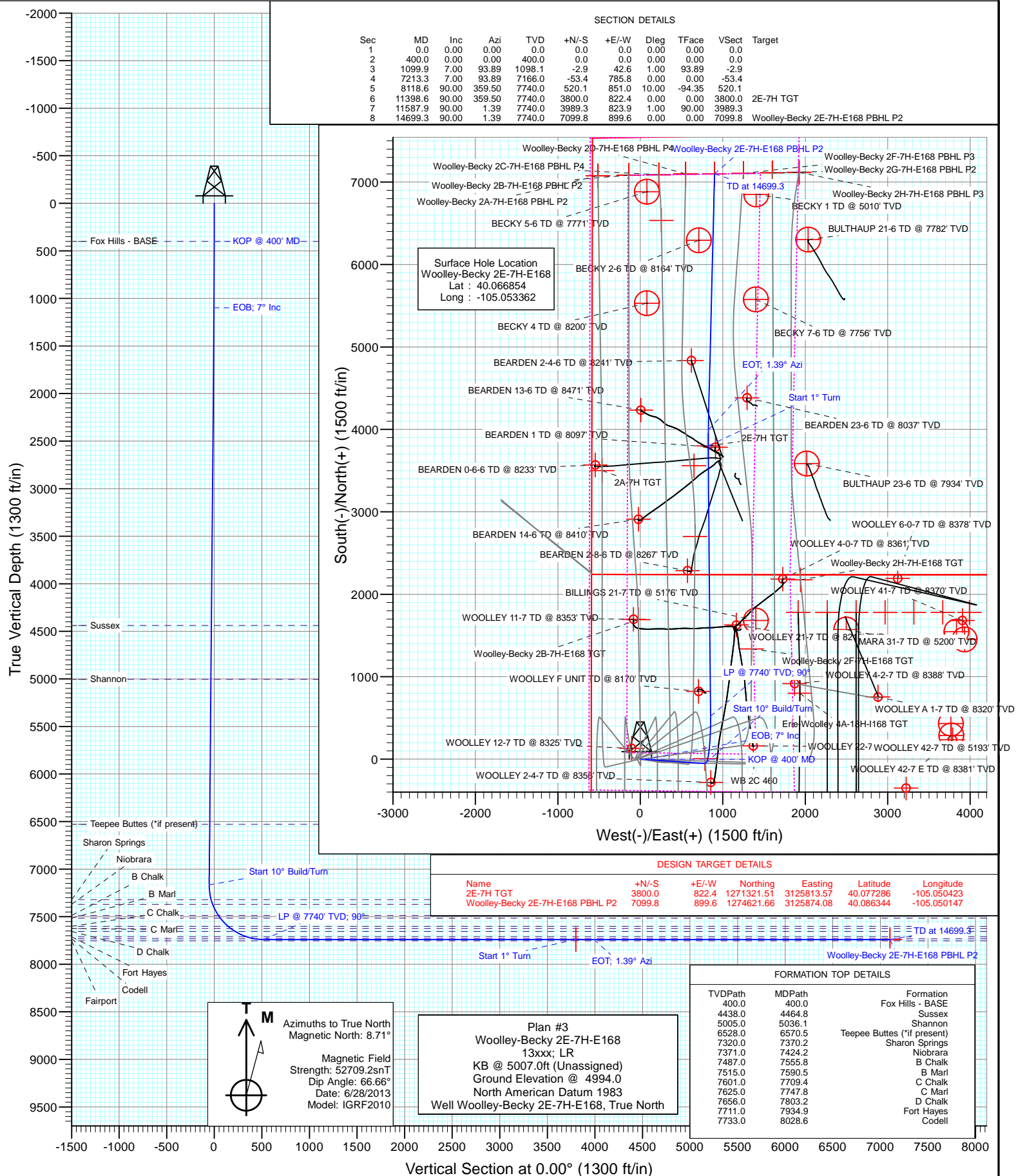




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2E-7H-E168
Wellbore: Hz
Design: Plan #3



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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

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

Well	Woolley-Becky 2E-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.41 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,125,010.30 ft	Longitude:	-105.053362
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 #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,099.9	7.00	93.89	1,098.1	-2.9	42.6	1.00	1.00	0.00	93.89	
7,213.3	7.00	93.89	7,166.0	-53.4	785.8	0.00	0.00	0.00	0.00	
8,118.6	90.00	359.50	7,740.0	520.1	851.0	10.00	9.17	-10.43	-94.35	
11,398.6	90.00	359.50	7,740.0	3,800.0	822.4	0.00	0.00	0.00	0.00	2E-7H TGT
11,587.9	90.00	1.39	7,740.0	3,989.3	823.9	1.00	0.00	1.00	90.00	
14,699.3	90.00	1.39	7,740.0	7,099.8	899.6	0.00	0.00	0.00	0.00	Woolley-Becky 2E-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400' MD - Fox Hills - BASE
500.0	1.00	93.89	500.0	-0.1	0.9	-0.1	1.00	1.00	
600.0	2.00	93.89	600.0	-0.2	3.5	-0.2	1.00	1.00	
700.0	3.00	93.89	699.9	-0.5	7.8	-0.5	1.00	1.00	
800.0	4.00	93.89	799.7	-0.9	13.9	-0.9	1.00	1.00	
900.0	5.00	93.89	899.4	-1.5	21.8	-1.5	1.00	1.00	
1,000.0	6.00	93.89	998.9	-2.1	31.3	-2.1	1.00	1.00	
1,099.9	7.00	93.89	1,098.1	-2.9	42.6	-2.9	1.00	1.00	EOB; 7° Inc
1,100.0	7.00	93.89	1,098.3	-2.9	42.6	-2.9	0.00	0.00	
1,200.0	7.00	93.89	1,197.5	-3.7	54.8	-3.7	0.00	0.00	
1,300.0	7.00	93.89	1,296.8	-4.5	66.9	-4.5	0.00	0.00	
1,400.0	7.00	93.89	1,396.0	-5.4	79.1	-5.4	0.00	0.00	
1,500.0	7.00	93.89	1,495.3	-6.2	91.2	-6.2	0.00	0.00	
1,600.0	7.00	93.89	1,594.5	-7.0	103.4	-7.0	0.00	0.00	
1,700.0	7.00	93.89	1,693.8	-7.9	115.5	-7.9	0.00	0.00	
1,800.0	7.00	93.89	1,793.0	-8.7	127.7	-8.7	0.00	0.00	
1,900.0	7.00	93.89	1,892.3	-9.5	139.9	-9.5	0.00	0.00	
2,000.0	7.00	93.89	1,991.6	-10.3	152.0	-10.3	0.00	0.00	
2,100.0	7.00	93.89	2,090.8	-11.2	164.2	-11.2	0.00	0.00	
2,200.0	7.00	93.89	2,190.1	-12.0	176.3	-12.0	0.00	0.00	
2,300.0	7.00	93.89	2,289.3	-12.8	188.5	-12.8	0.00	0.00	
2,400.0	7.00	93.89	2,388.6	-13.6	200.6	-13.6	0.00	0.00	
2,500.0	7.00	93.89	2,487.8	-14.5	212.8	-14.5	0.00	0.00	
2,600.0	7.00	93.89	2,587.1	-15.3	225.0	-15.3	0.00	0.00	
2,700.0	7.00	93.89	2,686.3	-16.1	237.1	-16.1	0.00	0.00	
2,800.0	7.00	93.89	2,785.6	-16.9	249.3	-16.9	0.00	0.00	
2,900.0	7.00	93.89	2,884.8	-17.8	261.4	-17.8	0.00	0.00	
3,000.0	7.00	93.89	2,984.1	-18.6	273.6	-18.6	0.00	0.00	
3,100.0	7.00	93.89	3,083.4	-19.4	285.7	-19.4	0.00	0.00	
3,200.0	7.00	93.89	3,182.6	-20.2	297.9	-20.2	0.00	0.00	
3,300.0	7.00	93.89	3,281.9	-21.1	310.1	-21.1	0.00	0.00	
3,400.0	7.00	93.89	3,381.1	-21.9	322.2	-21.9	0.00	0.00	
3,500.0	7.00	93.89	3,480.4	-22.7	334.4	-22.7	0.00	0.00	
3,600.0	7.00	93.89	3,579.6	-23.5	346.5	-23.5	0.00	0.00	
3,700.0	7.00	93.89	3,678.9	-24.4	358.7	-24.4	0.00	0.00	
3,800.0	7.00	93.89	3,778.1	-25.2	370.8	-25.2	0.00	0.00	
3,900.0	7.00	93.89	3,877.4	-26.0	383.0	-26.0	0.00	0.00	
4,000.0	7.00	93.89	3,976.7	-26.8	395.2	-26.8	0.00	0.00	
4,100.0	7.00	93.89	4,075.9	-27.7	407.3	-27.7	0.00	0.00	
4,200.0	7.00	93.89	4,175.2	-28.5	419.5	-28.5	0.00	0.00	
4,300.0	7.00	93.89	4,274.4	-29.3	431.6	-29.3	0.00	0.00	
4,400.0	7.00	93.89	4,373.7	-30.2	443.8	-30.2	0.00	0.00	
4,464.8	7.00	93.89	4,438.0	-30.7	451.7	-30.7	0.00	0.00	Sussex
4,500.0	7.00	93.89	4,472.9	-31.0	455.9	-31.0	0.00	0.00	
4,600.0	7.00	93.89	4,572.2	-31.8	468.1	-31.8	0.00	0.00	
4,700.0	7.00	93.89	4,671.4	-32.6	480.3	-32.6	0.00	0.00	
4,800.0	7.00	93.89	4,770.7	-33.5	492.4	-33.5	0.00	0.00	
4,900.0	7.00	93.89	4,869.9	-34.3	504.6	-34.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

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	7.00	93.89	4,969.2	-35.1	516.7	-35.1	0.00	0.00	
5,036.1	7.00	93.89	5,005.0	-35.4	521.1	-35.4	0.00	0.00	Shannon
5,100.0	7.00	93.89	5,068.5	-35.9	528.9	-35.9	0.00	0.00	
5,200.0	7.00	93.89	5,167.7	-36.8	541.0	-36.8	0.00	0.00	
5,300.0	7.00	93.89	5,267.0	-37.6	553.2	-37.6	0.00	0.00	
5,400.0	7.00	93.89	5,366.2	-38.4	565.4	-38.4	0.00	0.00	
5,500.0	7.00	93.89	5,465.5	-39.2	577.5	-39.2	0.00	0.00	
5,600.0	7.00	93.89	5,564.7	-40.1	589.7	-40.1	0.00	0.00	
5,700.0	7.00	93.89	5,664.0	-40.9	601.8	-40.9	0.00	0.00	
5,800.0	7.00	93.89	5,763.2	-41.7	614.0	-41.7	0.00	0.00	
5,900.0	7.00	93.89	5,862.5	-42.5	626.1	-42.5	0.00	0.00	
6,000.0	7.00	93.89	5,961.7	-43.4	638.3	-43.4	0.00	0.00	
6,100.0	7.00	93.89	6,061.0	-44.2	650.4	-44.2	0.00	0.00	
6,200.0	7.00	93.89	6,160.3	-45.0	662.6	-45.0	0.00	0.00	
6,300.0	7.00	93.89	6,259.5	-45.8	674.8	-45.8	0.00	0.00	
6,400.0	7.00	93.89	6,358.8	-46.7	686.9	-46.7	0.00	0.00	
6,500.0	7.00	93.89	6,458.0	-47.5	699.1	-47.5	0.00	0.00	
6,570.5	7.00	93.89	6,528.0	-48.1	707.6	-48.1	0.00	0.00	Teepee Buttes (*if present)
6,600.0	7.00	93.89	6,557.3	-48.3	711.2	-48.3	0.00	0.00	
6,700.0	7.00	93.89	6,656.5	-49.2	723.4	-49.2	0.00	0.00	
6,800.0	7.00	93.89	6,755.8	-50.0	735.5	-50.0	0.00	0.00	
6,900.0	7.00	93.89	6,855.0	-50.8	747.7	-50.8	0.00	0.00	
7,000.0	7.00	93.89	6,954.3	-51.6	759.9	-51.6	0.00	0.00	
7,100.0	7.00	93.89	7,053.6	-52.5	772.0	-52.5	0.00	0.00	
7,200.0	7.00	93.89	7,152.8	-53.3	784.2	-53.3	0.00	0.00	
7,213.3	7.00	93.89	7,166.0	-53.4	785.8	-53.4	0.00	0.00	Start 10° Build/Turn
7,300.0	10.71	39.85	7,251.8	-47.6	796.2	-47.6	10.00	4.27	
7,370.2	16.65	23.65	7,320.0	-33.3	804.5	-33.3	10.00	8.47	Sharon Springs
7,400.0	19.39	19.85	7,348.3	-24.8	807.9	-24.8	10.00	9.19	
7,424.2	21.66	17.45	7,371.0	-16.7	810.6	-16.7	10.00	9.38	Niobrara
7,500.0	28.92	12.30	7,439.5	14.6	818.7	14.6	10.00	9.58	
7,555.8	34.35	9.82	7,487.0	43.3	824.2	43.3	10.00	9.73	B Chalk
7,590.5	37.74	8.60	7,515.0	63.4	827.5	63.4	10.00	9.78	B Marl
7,600.0	38.68	8.30	7,522.5	69.3	828.4	69.3	10.00	9.81	
7,700.0	48.52	5.71	7,594.8	137.6	836.6	137.6	10.00	9.84	
7,709.4	49.44	5.51	7,601.0	144.7	837.3	144.7	10.00	9.87	C Chalk
7,747.8	53.24	4.75	7,625.0	174.6	840.0	174.6	10.00	9.88	C Marl
7,800.0	58.40	3.82	7,654.3	217.6	843.2	217.6	10.00	9.89	
7,803.2	58.72	3.76	7,656.0	220.4	843.4	220.4	10.00	9.90	D Chalk
7,900.0	68.31	2.29	7,699.1	306.7	847.9	306.7	10.00	9.91	
7,934.9	71.76	1.81	7,711.0	339.5	849.1	339.5	10.00	9.92	Fort Hayes
8,000.0	78.23	0.96	7,727.9	402.4	850.6	402.4	10.00	9.92	
8,028.6	81.07	0.60	7,733.0	430.5	851.0	430.5	10.00	9.92	Codell
8,100.0	88.15	359.73	7,739.7	501.5	851.2	501.5	10.00	9.93	
8,118.6	90.00	359.50	7,740.0	520.1	851.0	520.1	10.00	9.93	LP @ 7740' TVD; 90°
8,200.0	90.00	359.50	7,740.0	601.5	850.3	601.5	0.00	0.00	
8,300.0	90.00	359.50	7,740.0	701.5	849.5	701.5	0.00	0.00	
8,400.0	90.00	359.50	7,740.0	801.5	848.6	801.5	0.00	0.00	
8,500.0	90.00	359.50	7,740.0	901.5	847.7	901.5	0.00	0.00	
8,600.0	90.00	359.50	7,740.0	1,001.5	846.8	1,001.5	0.00	0.00	
8,700.0	90.00	359.50	7,740.0	1,101.5	846.0	1,101.5	0.00	0.00	
8,800.0	90.00	359.50	7,740.0	1,201.5	845.1	1,201.5	0.00	0.00	

Cathedral Energy Services

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Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,900.0	90.00	359.50	7,740.0	1,301.5	844.2	1,301.5	0.00	0.00	
9,000.0	90.00	359.50	7,740.0	1,401.5	843.4	1,401.5	0.00	0.00	
9,100.0	90.00	359.50	7,740.0	1,501.5	842.5	1,501.5	0.00	0.00	
9,200.0	90.00	359.50	7,740.0	1,601.5	841.6	1,601.5	0.00	0.00	
9,300.0	90.00	359.50	7,740.0	1,701.5	840.7	1,701.5	0.00	0.00	
9,400.0	90.00	359.50	7,740.0	1,801.5	839.9	1,801.5	0.00	0.00	
9,500.0	90.00	359.50	7,740.0	1,901.5	839.0	1,901.5	0.00	0.00	
9,600.0	90.00	359.50	7,740.0	2,001.5	838.1	2,001.5	0.00	0.00	
9,700.0	90.00	359.50	7,740.0	2,101.5	837.2	2,101.5	0.00	0.00	
9,800.0	90.00	359.50	7,740.0	2,201.5	836.4	2,201.5	0.00	0.00	
9,900.0	90.00	359.50	7,740.0	2,301.4	835.5	2,301.4	0.00	0.00	
10,000.0	90.00	359.50	7,740.0	2,401.4	834.6	2,401.4	0.00	0.00	
10,100.0	90.00	359.50	7,740.0	2,501.4	833.8	2,501.4	0.00	0.00	
10,200.0	90.00	359.50	7,740.0	2,601.4	832.9	2,601.4	0.00	0.00	
10,300.0	90.00	359.50	7,740.0	2,701.4	832.0	2,701.4	0.00	0.00	
10,400.0	90.00	359.50	7,740.0	2,801.4	831.1	2,801.4	0.00	0.00	
10,500.0	90.00	359.50	7,740.0	2,901.4	830.3	2,901.4	0.00	0.00	
10,600.0	90.00	359.50	7,740.0	3,001.4	829.4	3,001.4	0.00	0.00	
10,700.0	90.00	359.50	7,740.0	3,101.4	828.5	3,101.4	0.00	0.00	
10,800.0	90.00	359.50	7,740.0	3,201.4	827.6	3,201.4	0.00	0.00	
10,900.0	90.00	359.50	7,740.0	3,301.4	826.8	3,301.4	0.00	0.00	
11,000.0	90.00	359.50	7,740.0	3,401.4	825.9	3,401.4	0.00	0.00	
11,100.0	90.00	359.50	7,740.0	3,501.4	825.0	3,501.4	0.00	0.00	
11,200.0	90.00	359.50	7,740.0	3,601.4	824.2	3,601.4	0.00	0.00	
11,300.0	90.00	359.50	7,740.0	3,701.4	823.3	3,701.4	0.00	0.00	
11,398.6	90.00	359.50	7,740.0	3,800.0	822.4	3,800.0	0.00	0.00	Start 1° Turn
11,400.0	90.00	359.51	7,740.0	3,801.4	822.4	3,801.4	1.00	0.00	
11,500.0	90.00	0.51	7,740.0	3,901.4	822.4	3,901.4	1.00	0.00	
11,587.9	90.00	1.39	7,740.0	3,989.3	823.9	3,989.3	1.00	0.00	EOT; 1.39° Azi
11,600.0	90.00	1.39	7,740.0	4,001.4	824.2	4,001.4	0.00	0.00	
11,700.0	90.00	1.39	7,740.0	4,101.3	826.6	4,101.3	0.00	0.00	
11,800.0	90.00	1.39	7,740.0	4,201.3	829.1	4,201.3	0.00	0.00	
11,900.0	90.00	1.39	7,740.0	4,301.3	831.5	4,301.3	0.00	0.00	
12,000.0	90.00	1.39	7,740.0	4,401.3	833.9	4,401.3	0.00	0.00	
12,100.0	90.00	1.39	7,740.0	4,501.2	836.4	4,501.2	0.00	0.00	
12,200.0	90.00	1.39	7,740.0	4,601.2	838.8	4,601.2	0.00	0.00	
12,300.0	90.00	1.39	7,740.0	4,701.2	841.2	4,701.2	0.00	0.00	
12,400.0	90.00	1.39	7,740.0	4,801.1	843.6	4,801.1	0.00	0.00	
12,500.0	90.00	1.39	7,740.0	4,901.1	846.1	4,901.1	0.00	0.00	
12,600.0	90.00	1.39	7,740.0	5,001.1	848.5	5,001.1	0.00	0.00	
12,700.0	90.00	1.39	7,740.0	5,101.0	850.9	5,101.0	0.00	0.00	
12,800.0	90.00	1.39	7,740.0	5,201.0	853.4	5,201.0	0.00	0.00	
12,900.0	90.00	1.39	7,740.0	5,301.0	855.8	5,301.0	0.00	0.00	
13,000.0	90.00	1.39	7,740.0	5,401.0	858.2	5,401.0	0.00	0.00	
13,100.0	90.00	1.39	7,740.0	5,500.9	860.7	5,500.9	0.00	0.00	
13,200.0	90.00	1.39	7,740.0	5,600.9	863.1	5,600.9	0.00	0.00	
13,300.0	90.00	1.39	7,740.0	5,700.9	865.5	5,700.9	0.00	0.00	
13,400.0	90.00	1.39	7,740.0	5,800.8	868.0	5,800.8	0.00	0.00	
13,500.0	90.00	1.39	7,740.0	5,900.8	870.4	5,900.8	0.00	0.00	
13,600.0	90.00	1.39	7,740.0	6,000.8	872.8	6,000.8	0.00	0.00	
13,700.0	90.00	1.39	7,740.0	6,100.8	875.3	6,100.8	0.00	0.00	
13,800.0	90.00	1.39	7,740.0	6,200.7	877.7	6,200.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
13,900.0	90.00	1.39	7,740.0	6,300.7	880.1	6,300.7	0.00	0.00	
14,000.0	90.00	1.39	7,740.0	6,400.7	882.6	6,400.7	0.00	0.00	
14,100.0	90.00	1.39	7,740.0	6,500.6	885.0	6,500.6	0.00	0.00	
14,200.0	90.00	1.39	7,740.0	6,600.6	887.4	6,600.6	0.00	0.00	
14,300.0	90.00	1.39	7,740.0	6,700.6	889.8	6,700.6	0.00	0.00	
14,400.0	90.00	1.39	7,740.0	6,800.5	892.3	6,800.5	0.00	0.00	
14,500.0	90.00	1.39	7,740.0	6,900.5	894.7	6,900.5	0.00	0.00	
14,600.0	90.00	1.39	7,740.0	7,000.5	897.1	7,000.5	0.00	0.00	
14,699.3	90.00	1.39	7,740.0	7,099.8	899.6	7,099.8	0.00	0.00	TD at 14699.3

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
2E-7H TGT - plan hits target center - Point	0.00	0.00	7,740.0	3,800.0	822.4	1,271,321.51	3,125,813.57	40.077286	-105.050423
Woolley-Becky 2E-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	7,099.8	899.6	1,274,621.66	3,125,874.08	40.086344	-105.050147
Woolley-Becky 2E-7H-E - plan misses target center by 63.0ft at 14697.9ft MD (7740.0 TVD, 7098.3 N, 899.5 E) - Point	0.00	0.00	7,803.0	7,098.3	898.7	1,274,620.19	3,125,873.25	40.086340	-105.050150

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,464.8	4,438.0	Sussex				
5,036.1	5,005.0	Shannon				
6,570.5	6,528.0	Teepee Buttes (*if present)				
7,370.2	7,320.0	Sharon Springs				
7,424.2	7,371.0	Niobrara				
7,555.8	7,487.0	B Chalk				
7,590.5	7,515.0	B Marl				
7,709.4	7,601.0	C Chalk				
7,747.8	7,625.0	C Marl				
7,803.2	7,656.0	D Chalk				
7,934.9	7,711.0	Fort Hayes				
8,028.6	7,733.0	Codell				

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB @ 5007.0ft (Unassigned)
Project:	DJ Wattenberg	MD Reference:	KB @ 5007.0ft (Unassigned)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	North Reference:	True
Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #3		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400' MD
1,099.9	1,098.1	-2.9	42.6	EOB; 7° Inc
7,213.3	7,166.0	-53.4	785.8	Start 10° Build/Turn
8,118.6	7,740.0	520.1	851.0	LP @ 7740' TVD; 90°
11,398.6	7,740.0	3,800.0	822.4	Start 1° Turn
11,587.9	7,740.0	3,989.3	823.9	EOT; 1.39° Azi
14,699.3	7,740.0	7,099.8	899.6	TD at 14699.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2E-7H-E168

Hz

Plan #3

Anticollision Report

24 June, 2015

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Reference	Plan #3		
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	6/24/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,699.3	Plan #3 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S18-T1N-R68W (Erie Woolley)						
Erie-Woolley 4A-18H-I168 - Hz - Plan #2	7,714.4	13,857.0	1,097.3	971.9	8.755	CC
Erie-Woolley 4A-18H-I168 - Hz - Plan #2	9,369.1	15,498.1	1,102.7	930.6	6.406	ES
Erie-Woolley 4A-18H-I168 - Hz - Plan #2	9,400.0	15,498.1	1,103.2	930.9	6.403	SF
Erie-Woolley 4B-18H-I168 - Hz - Plan #2						Out of range
Erie-Woolley 4C-18H-I168 - Hz - Plan #2						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,262.6	7,956.9	925.7	878.4	19.559	CC, ES
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,300.0	7,959.6	926.5	879.0	19.513	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,171.9	7,789.0	371.9	326.3	8.154	CC
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,200.0	7,789.0	373.0	326.0	7.938	ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,300.0	7,789.0	393.4	342.8	7.776	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,774.3	7,918.3	530.8	488.0	12.411	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,800.0	7,932.1	531.3	488.3	12.371	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,200.0	7,586.7	251.3	213.2	6.594	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,234.9	7,621.3	250.3	212.4	6.605	CC, ES
WOOLLEY 31-7 (EXISTING) - ENCANA WELL - PLAN O						Out of range
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,763.2	7,861.1	887.0	828.4	15.153	CC
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,800.0	7,862.0	887.7	827.8	14.812	ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	10,000.0	7,866.8	918.0	851.8	13.867	SF
WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN	8,506.1	7,879.0	1,022.7	986.7	28.405	CC, ES
WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN	8,600.0	7,879.0	1,027.0	988.9	26.987	SF
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	11,056.4	7,709.1	326.3	249.0	4.223	CC, ES
Bearden #1 (Existing Well) - Existing - Existing	11,100.0	7,710.2	329.2	249.8	4.147	SF
Bearden 13-6 (Existing Well) - DD - DD	11,808.7	7,834.2	820.3	726.6	8.762	CC, ES
Bearden 13-6 (Existing Well) - DD - DD	11,900.0	7,834.0	825.3	730.8	8.730	SF
Bearden 14-6(Existing Well) - DD - DD	10,400.0	7,890.8	862.2	788.2	11.644	SF
Bearden 14-6(Existing Well) - DD - DD	10,500.0	7,892.2	855.3	782.2	11.705	ES
Bearden 14-6(Existing Well) - DD - DD	10,509.5	7,892.3	855.3	782.3	11.724	CC
Bearden 24-6 - DD - Plan #1	10,486.0	7,797.8	407.1	334.8	5.634	CC
Bearden 24-6 - DD - Plan #1	10,500.0	7,797.8	407.3	334.5	5.592	ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	11,374.8	7,710.9	86.7	4.0	1.048	Level 2, CC, ES, SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,808.7	7,834.2	820.3	726.7	8.763	CC, ES
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,900.0	7,834.0	825.4	730.8	8.730	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,400.0	7,890.8	862.2	788.2	11.644	SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,500.0	7,892.2	855.3	782.2	11.704	ES
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,509.5	7,892.3	855.2	782.3	11.724	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,978.6	7,701.8	457.4	363.9	4.892	CC
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,000.0	7,702.8	457.9	363.5	4.852	ES, SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,429.3	7,850.5	225.4	113.0	2.006	CC, ES, SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,879.9	7,915.6	260.6	190.0	3.691	CC, ES, SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,888.8	7,693.0	171.1	44.5	1.352	Level 3, CC, ES, SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,110.9	7,697.0	781.7	668.6	6.914	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,463.0	7,688.0	815.1	678.5	5.967	CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,189.3	7,694.0	538.1	423.7	4.703	CC
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,200.0	7,694.0	538.2	423.4	4.687	ES, 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
Morgan Hills 1B-7H-A168 - HZ - Plan #2						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS	400.0	388.0	987.2	985.9	729.770	CC
Thomas 7-12 (Existing) - Existing - NO SURVEYS	900.0	887.4	988.1	984.9	312.380	ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	2,200.0	2,178.1	1,007.6	998.9	115.194	SF
THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,262.6	7,956.9	925.7	878.4	19.559	CC, ES
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,300.0	7,959.6	926.5	879.0	19.513	SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	400.0	488.0	169.0	167.4	110.620	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	7,800.0	7,742.3	953.2	925.8	34.843	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,211.6	7,783.8	318.3	272.0	6.881	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,300.0	7,786.1	330.3	280.0	6.569	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,774.3	7,918.2	530.8	488.0	12.411	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,800.0	7,932.1	531.3	488.3	12.371	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,200.0	7,586.7	251.3	213.2	6.594	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	7,234.9	7,621.3	250.3	212.4	6.605	CC, ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,763.2	7,861.1	887.0	828.4	15.153	CC
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,800.0	7,862.0	887.7	827.8	14.812	ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	10,000.0	7,866.8	918.0	851.8	13.867	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,400.0	7,783.5	148.6	113.0	4.176	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,422.9	7,783.2	146.8	112.5	4.275	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	200.0	200.0	29.9	29.3	45.878	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	500.0	498.3	37.8	36.1	22.232	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	300.0	300.0	22.7	21.7	22.629	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	14,699.3	14,422.5	1,067.5	820.5	4.322	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	400.0	400.0	15.1	13.8	11.188	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	14,699.3	14,602.2	674.2	422.8	2.682	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	400.0	400.0	7.6	6.2	5.594	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	14,699.3	14,458.1	424.4	213.3	2.011	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	300.0	300.0	7.6	6.6	7.552	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	14,699.3	14,311.6	423.4	210.9	1.993	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	203.3	203.3	14.8	14.2	22.332	CC
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	300.0	299.9	15.1	14.1	15.030	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	14,699.3	14,844.6	700.1	446.3	2.758	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 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth	Offset Measured Depth	Distance		Separation Factor	Warning
	(ft)	(ft)	Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	200.0	200.0	22.4	21.7	34.306	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	14,699.3	14,589.4	1,035.5	786.2	4.154	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #3	200.0	200.0	82.6	81.9	126.488	CC, ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #3	900.0	890.4	134.1	130.9	42.624	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #3	300.0	300.0	75.0	74.0	74.872	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #3	900.0	893.8	116.9	113.7	37.456	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #3	400.0	400.0	67.5	66.1	49.932	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #3	7,800.0	7,804.3	638.4	610.2	22.664	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #3	400.0	400.0	60.2	58.8	44.545	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #3	7,520.8	7,850.2	363.4	336.6	13.546	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #4	400.0	400.0	52.6	51.3	38.951	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #4	7,835.3	7,897.0	87.8	59.4	3.094	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #3	804.8	807.9	40.2	37.4	14.350	CC, ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #3	1,500.0	1,503.3	60.8	54.2	9.260	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #3	859.6	862.3	24.0	20.9	7.751	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #3	900.0	902.7	24.1	20.8	7.344	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #3	1,100.0	1,102.6	28.9	24.5	6.601	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - Erie-Woolley 4A-18H-I168 - Hz - Plan #2													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		
7,500.0	7,439.5	13,723.0	7,582.0	19.5	112.6	80.96	5.1	1,928.1	1,110.7	988.1	122.64	9.057		
7,600.0	7,522.5	13,777.7	7,582.0	19.8	113.6	82.94	59.8	1,928.5	1,100.6	976.6	124.00	8.876		
7,700.0	7,594.8	13,846.2	7,582.0	20.2	114.7	82.56	128.2	1,929.1	1,097.3	972.1	125.15	8.768		
7,714.4	7,604.2	13,857.0	7,582.0	20.2	114.9	82.39	139.1	1,929.2	1,097.3	971.9	125.32	8.755 CC		
7,800.0	7,654.3	13,926.2	7,582.0	20.6	116.1	81.07	208.3	1,929.8	1,098.6	972.2	126.34	8.696		
7,900.0	7,699.1	14,015.4	7,582.0	21.1	117.6	79.32	297.4	1,930.6	1,102.2	974.4	127.79	8.625		
8,000.0	7,727.9	14,111.0	7,582.0	21.8	119.2	77.90	393.1	1,931.4	1,106.1	976.4	129.67	8.530		
8,100.0	7,739.7	14,210.2	7,582.0	22.6	120.9	77.17	492.2	1,932.3	1,108.9	976.8	132.10	8.395		
8,200.0	7,740.0	14,310.1	7,582.0	23.4	122.6	77.15	592.2	1,933.1	1,110.6	975.7	134.92	8.232		
8,300.0	7,740.0	14,410.1	7,582.0	24.4	124.3	77.17	692.2	1,934.0	1,112.3	974.5	137.84	8.070		
8,400.0	7,740.0	14,510.1	7,582.0	25.4	126.1	77.19	792.2	1,934.8	1,114.0	973.2	140.83	7.910		
8,500.0	7,740.0	14,631.7	7,582.0	26.5	128.1	77.20	913.8	1,934.8	1,114.8	970.3	144.50	7.715		
8,600.0	7,740.0	14,745.0	7,582.0	27.7	130.1	77.18	1,027.0	1,932.5	1,113.7	965.8	147.92	7.529		
8,700.0	7,740.0	14,845.0	7,582.0	28.9	131.8	77.17	1,127.0	1,930.2	1,112.3	961.2	151.03	7.364		
8,800.0	7,740.0	14,945.0	7,582.0	30.2	133.5	77.15	1,227.0	1,927.8	1,110.8	956.6	154.18	7.205		
8,900.0	7,740.0	15,045.0	7,582.0	31.6	135.3	77.13	1,326.9	1,925.5	1,109.4	952.0	157.36	7.050		
9,000.0	7,740.0	15,145.0	7,582.0	32.9	137.0	77.12	1,426.9	1,923.1	1,107.9	947.4	160.56	6.901		
9,100.0	7,740.0	15,245.0	7,582.0	34.4	138.7	77.10	1,526.9	1,920.8	1,106.5	942.7	163.78	6.756		
9,200.0	7,740.0	15,344.9	7,582.0	35.8	140.4	77.08	1,626.8	1,918.4	1,105.0	938.0	167.02	6.616		
9,300.0	7,740.0	15,444.9	7,582.0	37.3	142.2	77.07	1,726.8	1,916.0	1,103.6	933.3	170.28	6.481		
9,369.1	7,740.0	15,498.1	7,582.0	38.3	143.1	77.06	1,779.9	1,914.8	1,102.7	930.6	172.14	6.406 ES		
9,400.0	7,740.0	15,498.1	7,582.0	38.8	143.1	77.06	1,779.9	1,914.8	1,103.2	930.9	172.28	6.403 SF		
9,500.0	7,740.0	15,498.1	7,582.0	40.3	143.1	77.06	1,779.9	1,914.8	1,110.5	938.5	171.92	6.459		
9,600.0	7,740.0	15,498.1	7,582.0	41.8	143.1	77.06	1,779.9	1,914.8	1,126.6	956.3	170.33	6.614		
9,700.0	7,740.0	15,498.1	7,582.0	43.3	143.1	77.06	1,779.9	1,914.8	1,151.3	983.6	167.66	6.867		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
8,800.0	7,740.0	7,930.0	7,769.5	30.2	26.3	-88.61	1,654.2	-84.7	1,034.4	988.0	46.44	22.273	
8,900.0	7,740.0	7,930.0	7,769.5	31.6	26.3	-88.61	1,654.2	-84.7	993.9	947.3	46.58	21.339	
9,000.0	7,740.0	7,939.2	7,778.7	32.9	26.3	-89.18	1,654.8	-84.7	962.1	915.4	46.71	20.598	
9,100.0	7,740.0	7,945.7	7,785.2	34.4	26.3	-89.58	1,655.2	-84.7	939.8	893.0	46.86	20.055	
9,200.0	7,740.0	7,952.5	7,792.0	35.8	26.3	-90.00	1,655.7	-84.6	927.8	880.7	47.11	19.695	
9,262.6	7,740.0	7,956.9	7,796.4	36.7	26.3	-90.27	1,656.0	-84.6	925.7	878.4	47.33	19.559 CC, ES	
9,300.0	7,740.0	7,959.6	7,799.1	37.3	26.3	-90.44	1,656.1	-84.6	926.5	879.0	47.48	19.513 SF	
9,400.0	7,740.0	7,966.9	7,806.4	38.8	26.3	-90.89	1,656.7	-84.6	935.8	887.9	47.95	19.517	
9,500.0	7,740.0	7,974.6	7,814.0	40.3	26.3	-91.36	1,657.2	-84.5	955.5	907.1	48.45	19.723	
9,600.0	7,740.0	7,982.5	7,821.9	41.8	26.4	-91.85	1,657.8	-84.5	985.0	936.1	48.90	20.143	
9,700.0	7,740.0	7,990.7	7,830.1	43.3	26.4	-92.36	1,658.4	-84.5	1,023.4	974.1	49.26	20.777	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
8,300.0	7,740.0	7,789.0	7,789.0	24.4	13.6	90.00	1,576.6	1,213.8	947.9	917.3	30.57	31.007	
8,400.0	7,740.0	7,789.0	7,789.0	25.4	13.6	90.00	1,576.6	1,213.8	856.8	826.9	29.95	28.612	
8,500.0	7,740.0	7,789.0	7,789.0	26.5	13.6	90.00	1,576.6	1,213.8	768.0	738.7	29.32	26.197	
8,600.0	7,740.0	7,789.0	7,789.0	27.7	13.6	90.00	1,576.6	1,213.8	682.2	653.4	28.80	23.687	
8,700.0	7,740.0	7,789.0	7,789.0	28.9	13.6	90.00	1,576.6	1,213.8	600.9	572.2	28.68	20.950	
8,800.0	7,740.0	7,789.0	7,789.0	30.2	13.6	90.00	1,576.6	1,213.8	526.0	496.5	29.46	17.852	
8,900.0	7,740.0	7,789.0	7,789.0	31.6	13.6	90.00	1,576.6	1,213.8	460.7	428.9	31.81	14.484	
9,000.0	7,740.0	7,789.0	7,789.0	32.9	13.6	90.00	1,576.6	1,213.8	409.7	373.7	36.06	11.363	
9,100.0	7,740.0	7,789.0	7,789.0	34.4	13.6	90.00	1,576.6	1,213.8	378.8	337.2	41.64	9.098	
9,171.9	7,740.0	7,789.0	7,789.0	35.4	13.6	90.00	1,576.6	1,213.8	371.9	326.3	45.61	8.154 CC	
9,200.0	7,740.0	7,789.0	7,789.0	35.8	13.6	90.00	1,576.6	1,213.8	373.0	326.0	46.98	7.938 ES	
9,300.0	7,740.0	7,789.0	7,789.0	37.3	13.6	90.00	1,576.6	1,213.8	393.4	342.8	50.59	7.776 SF	
9,400.0	7,740.0	7,789.0	7,789.0	38.8	13.6	90.00	1,576.6	1,213.8	436.3	384.1	52.16	8.364	
9,500.0	7,740.0	7,789.0	7,789.0	40.3	13.6	90.00	1,576.6	1,213.8	496.0	443.6	52.36	9.473	
9,600.0	7,740.0	7,789.0	7,789.0	41.8	13.6	90.00	1,576.6	1,213.8	567.1	515.2	51.88	10.931	
9,700.0	7,740.0	7,789.0	7,789.0	43.3	13.6	90.00	1,576.6	1,213.8	645.9	594.8	51.16	12.626	
9,800.0	7,740.0	7,789.0	7,789.0	44.9	13.6	90.00	1,576.6	1,213.8	729.9	679.5	50.40	14.482	
9,900.0	7,740.0	7,789.0	7,789.0	46.5	13.6	90.00	1,576.6	1,213.8	817.6	767.9	49.70	16.449	
10,000.0	7,740.0	7,789.0	7,789.0	48.1	13.6	90.00	1,576.6	1,213.8	907.8	858.7	49.08	18.496	
10,100.0	7,740.0	7,789.0	7,789.0	49.7	13.6	90.00	1,576.6	1,213.8	999.8	951.3	48.54	20.599	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
4,200.0	4,175.2	4,523.9	4,330.1	10.5	22.8	-29.53	397.4	1,328.5	1,009.1	979.2	29.91	33.742		
4,300.0	4,274.4	4,603.1	4,405.0	10.7	23.2	-28.34	372.0	1,332.5	989.4	958.7	30.65	32.278		
4,400.0	4,373.7	4,688.5	4,486.6	11.0	23.7	-27.15	347.0	1,337.2	971.7	940.3	31.38	30.962		
4,500.0	4,472.9	4,787.1	4,581.0	11.3	24.2	-25.77	319.0	1,342.6	954.9	922.7	32.14	29.708		
4,600.0	4,472.2	4,898.3	4,687.9	11.6	24.8	-24.30	289.0	1,346.9	937.7	904.8	32.90	28.502		
4,700.0	4,471.4	4,987.1	4,773.7	11.8	25.2	-23.15	265.9	1,349.2	920.2	886.7	33.55	27.424		
4,800.0	4,770.7	5,070.6	4,854.7	12.1	25.6	-22.15	246.2	1,352.0	904.5	870.3	34.15	26.487		
4,900.0	4,869.9	5,164.0	4,946.0	12.4	25.9	-21.17	227.0	1,355.2	890.2	855.5	34.71	25.647		
5,000.0	4,969.2	5,259.4	5,039.9	12.7	26.2	-20.35	210.4	1,357.8	876.4	841.2	35.22	24.883		
5,100.0	5,068.5	5,356.4	5,135.9	12.9	26.5	-19.65	196.0	1,360.0	863.0	827.3	35.70	24.175		
5,200.0	5,167.7	5,457.3	5,235.8	13.2	26.8	-19.05	182.9	1,361.6	849.6	813.5	36.14	23.510		
5,300.0	5,267.0	5,556.4	5,334.4	13.5	27.0	-18.61	172.4	1,362.5	836.3	799.7	36.53	22.891		
5,400.0	5,366.2	5,652.2	5,429.9	13.8	27.1	-18.35	164.9	1,362.7	822.9	786.0	36.89	22.310		
5,500.0	5,465.5	5,739.4	5,516.9	14.0	27.3	-18.24	160.0	1,363.2	810.6	773.4	37.20	21.791		
5,600.0	5,564.7	5,844.6	5,622.1	14.3	27.3	-18.36	157.8	1,364.3	799.5	762.0	37.46	21.341		
5,700.0	5,664.0	5,945.5	5,723.0	14.6	27.4	-18.66	157.7	1,362.9	786.6	748.9	37.72	20.853		
5,800.0	5,763.2	6,034.8	5,812.3	14.9	27.5	-18.90	157.4	1,362.7	774.8	736.8	37.99	20.396		
5,900.0	5,862.5	6,131.9	5,909.4	15.2	27.5	-19.16	157.2	1,363.4	763.9	725.6	38.24	19.975		
6,000.0	5,961.7	6,230.6	6,008.1	15.4	27.6	-19.48	157.6	1,364.0	753.1	714.6	38.49	19.564		
6,100.0	6,061.0	6,327.2	6,104.7	15.7	27.7	-19.81	158.1	1,364.8	742.5	703.7	38.75	19.159		
6,200.0	6,160.3	6,425.2	6,202.7	16.0	27.7	-20.13	158.5	1,366.0	732.3	693.3	39.02	18.769		
6,300.0	6,259.5	6,527.7	6,305.2	16.3	27.8	-20.48	158.9	1,367.1	722.0	682.7	39.28	18.380		
6,400.0	6,358.8	6,628.4	6,405.9	16.5	27.9	-20.84	159.2	1,367.7	711.3	671.7	39.55	17.986		
6,500.0	6,458.0	6,727.7	6,505.2	16.8	27.9	-21.19	159.4	1,368.4	700.6	660.7	39.81	17.596		
6,600.0	6,557.3	6,826.8	6,604.3	17.1	28.0	-21.54	159.5	1,369.1	689.9	649.8	40.09	17.209		
6,700.0	6,656.5	6,925.8	6,703.3	17.4	28.1	-21.89	159.4	1,369.9	679.3	639.0	40.37	16.829		
6,800.0	6,755.8	7,024.7	6,802.2	17.6	28.2	-22.24	159.2	1,370.8	668.8	628.2	40.65	16.454		
6,900.0	6,855.0	7,123.7	6,901.1	17.9	28.3	-22.59	158.9	1,371.8	658.4	617.5	40.93	16.084		
7,000.0	6,954.3	7,222.4	6,999.9	18.2	28.4	-22.90	158.1	1,373.0	648.1	606.8	41.24	15.715		
7,100.0	7,053.6	7,323.2	7,100.7	18.5	28.5	-23.17	156.7	1,374.5	637.8	596.3	41.54	15.355		
7,200.0	7,152.8	7,426.2	7,203.7	18.7	28.5	-23.50	155.7	1,375.4	627.1	585.2	41.83	14.992		
7,300.0	7,251.8	7,531.6	7,309.1	19.0	28.6	31.36	155.0	1,375.3	613.5	571.5	42.03	14.598		
7,400.0	7,348.3	7,633.8	7,411.2	19.3	28.7	54.45	154.7	1,373.9	593.9	551.8	42.08	14.113		
7,500.0	7,439.5	7,721.6	7,499.1	19.5	28.8	66.79	154.5	1,372.5	571.3	529.2	42.07	13.580		
7,600.0	7,522.5	7,801.8	7,579.2	19.8	28.9	76.72	154.4	1,371.6	549.9	507.9	42.08	13.069		
7,700.0	7,594.8	7,873.1	7,650.5	20.2	28.9	85.31	154.4	1,371.1	534.8	492.4	42.32	12.636		
7,774.3	7,640.4	7,918.3	7,695.7	20.5	28.9	90.43	154.4	1,370.8	530.8	488.0	42.77	12.411 CC, ES		
7,800.0	7,654.3	7,932.1	7,709.5	20.6	29.0	91.87	154.5	1,370.7	531.3	488.3	42.95	12.371 SF		
7,900.0	7,699.1	7,976.9	7,754.4	21.1	29.0	95.56	154.7	1,370.5	544.3	500.5	43.78	12.431		
8,000.0	7,727.9	8,006.0	7,783.4	21.8	29.0	95.69	154.8	1,370.4	575.7	531.3	44.45	12.953		
8,100.0	7,739.7	8,018.3	7,795.7	22.6	29.0	91.69	154.9	1,370.3	624.2	579.5	44.74	13.953		
8,200.0	7,740.0	8,019.1	7,796.5	23.4	29.0	90.50	154.9	1,370.3	685.4	640.7	44.72	15.328		
8,300.0	7,740.0	8,019.7	7,797.1	24.4	29.0	90.56	154.9	1,370.3	755.0	710.5	44.54	16.952		
8,400.0	7,740.0	8,020.2	7,797.6	25.4	29.0	90.63	154.9	1,370.3	830.8	786.5	44.30	18.755		
8,500.0	7,740.0	8,020.8	7,798.2	26.5	29.0	90.69	154.9	1,370.3	911.3	867.3	44.06	20.683		
8,600.0	7,740.0	8,021.3	7,798.7	27.7	29.0	90.75	154.9	1,370.3	995.4	951.5	43.85	22.699		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
2,800.0	2,785.6	3,389.1	3,183.8	6.6	19.5	-42.37	550.6	1,014.8	1,013.9	994.8	19.17	52.893		
2,900.0	2,884.8	3,479.3	3,264.3	6.9	20.2	-41.06	510.6	1,007.4	971.0	950.9	20.10	48.319		
3,000.0	2,984.1	3,558.1	3,334.7	7.2	20.9	-39.78	475.6	1,001.9	929.4	908.4	21.04	44.165		
3,100.0	3,083.4	3,648.5	3,415.5	7.4	21.6	-38.16	435.4	996.2	888.9	866.8	22.07	40.280		
3,200.0	3,182.6	3,743.1	3,500.1	7.7	22.4	-36.39	393.8	988.9	848.1	825.0	23.11	36.707		
3,300.0	3,281.9	3,828.5	3,577.0	8.0	23.0	-34.76	357.3	981.3	808.0	783.8	24.11	33.505		
3,400.0	3,381.1	3,911.9	3,652.8	8.3	23.6	-33.17	323.5	973.3	769.0	743.9	25.12	30.614		
3,500.0	3,480.4	3,994.3	3,727.9	8.5	24.2	-31.46	290.3	965.9	731.5	705.3	26.18	27.945		
3,600.0	3,579.6	4,080.5	3,806.3	8.8	24.9	-29.42	255.3	959.5	695.7	668.4	27.31	25.472		
3,700.0	3,678.9	4,165.4	3,883.3	9.1	25.5	-27.14	219.9	953.6	660.9	632.4	28.53	23.170		
3,800.0	3,778.1	4,243.8	3,954.1	9.4	26.1	-24.71	186.5	950.2	629.1	599.4	29.79	21.116		
3,900.0	3,877.4	4,333.4	4,035.1	9.6	26.8	-21.68	148.3	946.7	599.4	568.3	31.14	19.251		
4,000.0	3,976.7	4,424.9	4,118.0	9.9	27.5	-18.35	109.7	943.3	571.9	539.4	32.51	17.592		
4,100.0	4,075.9	4,527.0	4,208.7	10.2	28.4	-13.94	63.2	938.6	545.0	511.0	34.04	16.011		
4,200.0	4,175.2	4,617.5	4,288.3	10.5	29.1	-9.54	20.4	933.3	519.7	484.2	35.51	14.637		
4,300.0	4,274.4	4,699.3	4,360.8	10.7	29.8	-5.35	-17.4	928.6	498.3	461.5	36.81	13.537		
4,400.0	4,373.7	4,783.4	4,436.6	11.0	30.4	-1.12	-53.5	924.9	481.8	443.9	37.92	12.706		
4,500.0	4,472.9	4,875.0	4,520.8	11.3	31.0	3.27	-89.3	921.3	469.0	430.1	38.86	12.068		
4,600.0	4,572.2	4,974.9	4,614.1	11.6	31.7	7.83	-124.6	917.2	458.7	419.0	39.67	11.563		
4,700.0	4,671.4	5,070.8	4,704.8	11.8	32.2	12.02	-155.5	912.3	449.6	409.3	40.28	11.161		
4,800.0	4,770.7	5,167.8	4,797.3	12.1	32.7	16.05	-184.2	908.0	442.8	402.1	40.72	10.874		
4,900.0	4,869.9	5,268.8	4,895.0	12.4	33.2	19.82	-209.8	904.1	437.2	396.2	41.05	10.652		
5,000.0	4,969.2	5,371.1	4,995.0	12.7	33.5	23.15	-231.2	900.8	432.0	390.8	41.24	10.475		
5,100.0	5,068.5	5,473.1	5,095.4	12.9	33.9	26.07	-248.8	898.1	426.9	385.5	41.38	10.316		
5,200.0	5,167.7	5,579.5	5,200.6	13.2	34.2	28.91	-264.7	895.1	421.6	380.1	41.46	10.168		
5,300.0	5,267.0	5,686.7	5,307.1	13.5	34.4	31.33	-276.0	892.1	414.5	373.0	41.51	9.987		
5,400.0	5,366.2	5,792.1	5,412.1	13.8	34.6	33.45	-284.1	889.1	406.4	364.9	41.51	9.791		
5,500.0	5,465.5	5,893.4	5,513.3	14.0	34.7	35.13	-288.8	887.2	397.7	356.2	41.51	9.580		
5,600.0	5,564.7	5,999.6	5,619.5	14.3	34.8	36.68	-291.2	885.4	388.0	346.5	41.51	9.346		
5,700.0	5,664.0	6,101.6	5,721.4	14.6	34.8	38.03	-291.4	883.5	377.0	335.5	41.52	9.079		
5,800.0	5,763.2	6,200.2	5,820.0	14.9	34.9	39.36	-291.3	881.8	366.1	324.5	41.53	8.815		
5,900.0	5,862.5	6,298.8	5,918.6	15.2	34.9	40.79	-291.3	880.1	355.5	314.0	41.51	8.563		
6,000.0	5,961.7	6,397.6	6,017.4	15.4	35.0	42.31	-291.4	878.4	345.2	303.8	41.47	8.326		
6,100.0	6,061.0	6,496.4	6,116.2	15.7	35.1	43.92	-291.6	876.8	335.3	293.9	41.39	8.102		
6,200.0	6,160.3	6,595.4	6,215.2	16.0	35.1	45.54	-291.4	875.6	325.7	284.4	41.28	7.890		
6,300.0	6,259.5	6,694.3	6,314.1	16.3	35.2	47.12	-290.9	874.9	316.4	275.2	41.18	7.684		
6,400.0	6,358.8	6,792.9	6,412.7	16.5	35.2	48.80	-290.4	874.3	307.5	266.4	41.04	7.492		
6,500.0	6,458.0	6,891.7	6,511.5	16.8	35.3	50.63	-290.3	873.7	299.0	258.2	40.86	7.318		
6,600.0	6,557.3	6,990.8	6,610.5	17.1	35.3	52.60	-290.3	872.9	291.0	250.3	40.64	7.160		
6,700.0	6,656.5	7,090.0	6,709.7	17.4	35.4	54.72	-290.4	871.9	283.3	242.9	40.36	7.019		
6,800.0	6,755.8	7,189.2	6,808.9	17.6	35.5	57.01	-290.6	870.7	276.0	236.0	40.02	6.896		
6,900.0	6,855.0	7,288.4	6,908.1	17.9	35.5	59.47	-290.9	869.3	269.1	229.5	39.62	6.793		
7,000.0	6,954.3	7,387.7	7,007.4	18.2	35.6	62.07	-291.2	867.8	262.8	223.6	39.17	6.709		
7,100.0	7,053.6	7,487.3	7,107.0	18.5	35.7	64.82	-291.4	866.1	256.8	218.1	38.66	6.642		
7,200.0	7,152.8	7,586.7	7,206.4	18.7	35.8	67.73	-291.4	864.2	251.3	213.2	38.11	6.594 SF		
7,234.9	7,187.4	7,621.3	7,241.0	18.8	35.8	92.77	-291.4	863.5	250.3	212.4	37.90	6.605 CC, ES		
7,300.0	7,251.8	7,685.7	7,305.3	19.0	35.8	124.57	-291.4	862.3	252.6	215.2	37.44	6.748		
7,400.0	7,348.3	7,782.7	7,402.4	19.3	35.9	147.57	-291.2	860.4	271.6	234.9	36.64	7.411		
7,500.0	7,439.5	7,874.7	7,494.4	19.5	35.9	157.79	-290.7	858.7	307.9	271.9	35.98	8.556		
7,600.0	7,522.5	7,958.3	7,578.0	19.8	36.0	163.79	-290.0	857.2	360.5	324.9	35.59	10.129		
7,700.0	7,594.8	8,031.6	7,651.2	20.2	36.0	167.63	-289.4	856.4	427.5	392.0	35.44	12.063		
7,800.0	7,654.3	8,092.0	7,711.6	20.6	36.0	170.20	-288.7	855.9	506.5	471.1	35.43	14.295		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	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)			
7,900.0	7,699.1	8,137.6	7,757.2	21.1	36.1	172.02	-288.3	855.7	595.1	559.6	35.51	16.760	
8,000.0	7,727.9	8,167.3	7,786.9	21.8	36.1	173.60	-288.0	855.6	690.4	654.8	35.61	19.385	
8,100.0	7,739.7	8,180.2	7,799.8	22.6	36.1	179.00	-287.8	855.5	789.4	753.7	35.73	22.095	
8,200.0	7,740.0	8,181.5	7,801.1	23.4	36.1	-164.23	-287.8	855.5	889.4	853.6	35.85	24.810	
8,300.0	7,740.0	8,182.5	7,802.1	24.4	36.1	-165.74	-287.8	855.5	989.4	953.4	35.97	27.508	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 4-0-7 (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	
9,300.0	7,740.0	7,849.9	7,768.7	37.3	19.6	88.49	2,172.1	1,723.4	1,000.6	960.9	39.67	25.224	
9,400.0	7,740.0	7,852.4	7,771.1	38.8	19.6	88.65	2,172.1	1,723.4	958.4	915.0	43.41	22.080	
9,500.0	7,740.0	7,854.8	7,773.6	40.3	19.6	88.81	2,172.2	1,723.5	925.2	877.7	47.51	19.474	
9,600.0	7,740.0	7,857.2	7,776.0	41.8	19.6	88.96	2,172.3	1,723.5	901.9	850.1	51.78	17.415	
9,700.0	7,740.0	7,859.6	7,778.4	43.3	19.6	89.12	2,172.3	1,723.5	889.2	833.2	56.01	15.878	
9,763.2	7,740.0	7,861.1	7,779.9	44.3	19.6	89.22	2,172.4	1,723.6	887.0	828.4	58.54	15.153 CC	
9,800.0	7,740.0	7,862.0	7,780.8	44.9	19.6	89.28	2,172.4	1,723.6	887.7	827.8	59.93	14.812 ES	
9,900.0	7,740.0	7,864.4	7,783.2	46.5	19.6	89.43	2,172.4	1,723.6	897.5	834.1	63.38	14.161	
10,000.0	7,740.0	7,866.8	7,785.6	48.1	19.6	89.58	2,172.5	1,723.6	918.0	851.8	66.20	13.867 SF	
10,100.0	7,740.0	7,869.2	7,787.9	49.7	19.7	89.74	2,172.6	1,723.7	948.8	880.4	68.37	13.876	
10,200.0	7,740.0	7,871.5	7,790.3	51.3	19.7	89.89	2,172.6	1,723.7	988.7	918.7	69.92	14.140	
10,300.0	7,740.0	7,873.9	7,792.6	52.9	19.7	90.04	2,172.7	1,723.7	1,036.7	965.8	70.92	14.618	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design												S18-T1N-R68W (Erie Woolley) - WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN ONLY		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	Separation Factor						
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis						
8,400.0	7,740.0	7,879.0	7,793.0	25.4	22.8	90.00	916.5	1,870.3	1,028.2	994.2	33.98	30.258					
8,500.0	7,740.0	7,879.0	7,793.0	26.5	22.8	90.00	916.5	1,870.3	1,022.7	986.8	35.88	28.506					
8,506.1	7,740.0	7,879.0	7,793.0	26.6	22.8	90.00	916.5	1,870.3	1,022.7	986.7	36.00	28.405 CC, ES					
8,600.0	7,740.0	7,879.0	7,793.0	27.7	22.8	90.00	916.5	1,870.3	1,027.0	988.9	38.05	26.987 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S6-T1N-R68W (Bearden) - Bearden #1 (Existing Well) - Existing - Existing												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,100.0	7,740.0	7,687.4	7,684.9	49.7	13.7	85.77	3,460.2	1,151.5	1,010.3	979.4	30.87	32.732	
10,200.0	7,740.0	7,689.4	7,686.9	51.3	13.7	86.13	3,460.2	1,151.5	916.3	885.1	31.17	29.394	
10,300.0	7,740.0	7,691.5	7,689.0	52.9	13.7	86.50	3,460.3	1,151.6	823.6	791.7	31.89	25.825	
10,400.0	7,740.0	7,693.7	7,691.2	54.5	13.7	86.87	3,460.3	1,151.6	732.9	699.6	33.27	22.026	
10,500.0	7,740.0	7,695.8	7,693.3	56.2	13.7	87.25	3,460.4	1,151.6	644.9	609.3	35.66	18.087	
10,600.0	7,740.0	7,700.0	7,697.5	57.8	13.7	87.98	3,460.5	1,151.6	561.0	521.5	39.47	14.214	
10,700.0	7,740.0	7,700.4	7,697.9	59.5	13.7	88.04	3,460.5	1,151.6	483.2	438.0	45.19	10.692	
10,800.0	7,740.0	7,702.8	7,700.3	61.1	13.7	88.48	3,460.5	1,151.7	415.0	361.8	53.19	7.802	
10,900.0	7,740.0	7,705.3	7,702.8	62.8	13.7	88.91	3,460.6	1,151.7	361.9	298.7	63.14	5.731	
11,000.0	7,740.0	7,707.7	7,705.2	64.4	13.7	89.34	3,460.6	1,151.7	331.2	258.1	73.06	4.533	
11,056.4	7,740.0	7,709.1	7,706.6	65.4	13.7	89.58	3,460.7	1,151.7	326.3	249.0	77.27	4.223 CC, ES	
11,100.0	7,740.0	7,710.2	7,707.6	66.1	13.7	89.76	3,460.7	1,151.7	329.2	249.8	79.39	4.147 SF	
11,200.0	7,740.0	7,712.6	7,710.1	67.8	13.7	90.18	3,460.8	1,151.7	356.5	276.2	80.33	4.438	
11,300.0	7,740.0	7,715.0	7,712.4	69.5	13.7	90.61	3,460.8	1,151.7	407.2	329.6	77.58	5.248	
11,400.0	7,740.0	7,717.3	7,714.8	71.1	13.7	91.02	3,460.9	1,151.8	473.8	400.2	73.59	6.438	
11,500.0	7,740.0	7,719.7	7,717.2	72.8	13.7	91.41	3,460.9	1,151.8	550.0	480.4	69.66	7.896	
11,600.0	7,740.0	7,722.1	7,719.6	74.5	13.7	91.78	3,461.0	1,151.8	632.0	565.9	66.17	9.552	
11,700.0	7,740.0	7,724.5	7,721.9	76.2	13.7	92.17	3,461.0	1,151.8	718.3	655.1	63.21	11.363	
11,800.0	7,740.0	7,726.8	7,724.3	77.9	13.7	92.57	3,461.1	1,151.8	807.7	746.9	60.78	13.289	
11,900.0	7,740.0	7,729.1	7,726.6	79.7	13.7	92.96	3,461.1	1,151.8	899.3	840.5	58.78	15.301	
12,000.0	7,740.0	7,731.4	7,728.9	81.4	13.7	93.35	3,461.2	1,151.8	992.6	935.4	57.12	17.376	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
11,200.0	7,740.0	7,835.3	7,717.2	67.8	24.4	-89.45	4,230.0	9.3	1,029.2	953.2	75.97	13.547		
11,300.0	7,740.0	7,835.1	7,717.0	69.5	24.4	-89.43	4,230.0	9.3	970.6	891.5	79.08	12.274		
11,400.0	7,740.0	7,835.0	7,716.8	71.1	24.4	-89.42	4,230.0	9.3	919.2	836.9	82.33	11.165		
11,500.0	7,740.0	7,834.8	7,716.7	72.8	24.4	-89.41	4,230.0	9.3	877.1	791.4	85.63	10.243		
11,600.0	7,740.0	7,834.6	7,716.5	74.5	24.4	-89.40	4,230.0	9.3	846.4	757.6	88.78	9.534		
11,700.0	7,740.0	7,834.4	7,716.3	76.2	24.4	-89.39	4,230.0	9.3	827.4	735.9	91.49	9.044		
11,800.0	7,740.0	7,834.2	7,716.1	77.9	24.4	-89.37	4,230.0	9.3	820.3	726.8	93.48	8.775		
11,808.7	7,740.0	7,834.2	7,716.0	78.1	24.4	-89.37	4,230.0	9.3	820.3	726.6	93.61	8.762 CC, ES		
11,900.0	7,740.0	7,834.0	7,715.8	79.7	24.4	-89.36	4,230.0	9.3	825.3	730.8	94.54	8.730 SF		
12,000.0	7,740.0	7,833.8	7,715.6	81.4	24.4	-89.34	4,230.0	9.3	842.3	747.7	94.59	8.905		
12,100.0	7,740.0	7,833.5	7,715.4	83.1	24.4	-89.33	4,230.0	9.3	870.4	776.8	93.69	9.290		
12,200.0	7,740.0	7,833.3	7,715.2	84.8	24.4	-89.31	4,230.0	9.3	908.8	816.8	92.04	9.874		
12,300.0	7,740.0	7,833.1	7,715.0	86.5	24.4	-89.30	4,230.0	9.3	956.1	866.3	89.85	10.641		
12,400.0	7,740.0	7,832.9	7,714.8	88.2	24.4	-89.28	4,230.0	9.3	1,011.2	923.8	87.35	11.576		
12,500.0	7,740.0	7,832.7	7,714.5	89.9	24.4	-89.27	4,230.0	9.3	1,072.7	988.0	84.71	12.664		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
9,900.0	7,740.0	7,883.6	7,718.0	46.5	25.8	-89.53	2,903.4	-25.0	1,050.2	980.3	69.92	15.020		
10,000.0	7,740.0	7,885.0	7,719.5	48.1	25.8	-89.63	2,903.4	-25.0	995.5	923.9	71.56	13.912		
10,100.0	7,740.0	7,886.5	7,720.9	49.7	25.8	-89.72	2,903.4	-25.0	948.2	875.3	72.93	13.002		
10,200.0	7,740.0	7,887.9	7,722.3	51.3	25.8	-89.82	2,903.4	-25.0	909.5	835.6	73.90	12.308		
10,300.0	7,740.0	7,889.3	7,723.7	52.9	25.8	-89.92	2,903.5	-25.0	880.5	806.2	74.31	11.850		
10,400.0	7,740.0	7,890.8	7,725.2	54.5	25.8	-90.01	2,903.5	-25.0	862.2	788.2	74.05	11.644 SF		
10,500.0	7,740.0	7,892.2	7,726.6	56.2	25.8	-90.11	2,903.5	-25.0	855.3	782.2	73.07	11.705 ES		
10,509.5	7,740.0	7,892.3	7,726.7	56.3	25.8	-90.11	2,903.5	-25.0	855.3	782.3	72.95	11.724 CC		
10,600.0	7,740.0	7,893.6	7,728.0	57.8	25.8	-90.20	2,903.5	-25.0	860.0	788.6	71.45	12.038		
10,700.0	7,740.0	7,895.0	7,729.4	59.5	25.8	-90.29	2,903.5	-25.0	876.2	806.9	69.31	12.641		
10,800.0	7,740.0	7,896.4	7,730.8	61.1	25.8	-90.39	2,903.6	-25.0	903.2	836.3	66.89	13.503		
10,900.0	7,740.0	7,897.8	7,732.2	62.8	25.8	-90.48	2,903.6	-25.0	940.2	875.8	64.40	14.599		
11,000.0	7,740.0	7,899.2	7,733.6	64.4	25.8	-90.58	2,903.6	-25.0	985.9	923.9	62.00	15.902		
11,100.0	7,740.0	7,900.6	7,735.0	66.1	25.9	-90.67	2,903.6	-25.0	1,039.2	979.5	59.79	17.380		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
9,600.0	7,740.0	7,797.8	7,725.0	41.8	19.0	90.00	2,890.9	1,237.5	975.0	941.8	33.20	29.366	
9,700.0	7,740.0	7,797.8	7,725.0	43.3	19.0	90.00	2,890.9	1,237.5	885.1	851.2	33.97	26.056	
9,800.0	7,740.0	7,797.8	7,725.0	44.9	19.0	90.00	2,890.9	1,237.5	797.7	762.3	35.36	22.556	
9,900.0	7,740.0	7,797.8	7,725.0	46.5	19.0	90.00	2,890.9	1,237.5	713.5	675.8	37.65	18.950	
10,000.0	7,740.0	7,797.8	7,725.0	48.1	19.0	90.00	2,890.9	1,237.5	633.9	592.8	41.13	15.413	
10,100.0	7,740.0	7,797.8	7,725.0	49.7	19.0	90.00	2,890.9	1,237.5	561.0	514.9	46.05	12.181	
10,200.0	7,740.0	7,797.8	7,725.0	51.3	19.0	90.00	2,890.9	1,237.5	497.5	445.0	52.48	9.480	
10,300.0	7,740.0	7,797.8	7,725.0	52.9	19.0	90.00	2,890.9	1,237.5	447.5	387.5	60.00	7.459	
10,400.0	7,740.0	7,797.8	7,725.0	54.5	19.0	90.00	2,890.9	1,237.5	416.1	348.7	67.40	6.173	
10,486.0	7,740.0	7,797.8	7,725.0	55.9	19.0	90.00	2,890.9	1,237.5	407.1	334.8	72.25	5.634 CC	
10,500.0	7,740.0	7,797.8	7,725.0	56.2	19.0	90.00	2,890.9	1,237.5	407.3	334.5	72.83	5.592 ES, SF	
10,600.0	7,740.0	7,797.8	7,725.0	57.8	19.0	90.00	2,890.9	1,237.5	422.8	347.7	75.03	5.635	
10,700.0	7,740.0	7,797.8	7,725.0	59.5	19.0	90.00	2,890.9	1,237.5	459.9	385.6	74.32	6.188	
10,800.0	7,740.0	7,797.8	7,725.0	61.1	19.0	90.00	2,890.9	1,237.5	514.1	442.1	71.99	7.141	
10,900.0	7,740.0	7,797.8	7,725.0	62.8	19.0	90.00	2,890.9	1,237.5	580.6	511.5	69.17	8.394	
11,000.0	7,740.0	7,797.8	7,725.0	64.4	19.0	90.00	2,890.9	1,237.5	655.7	589.3	66.45	9.868	
11,100.0	7,740.0	7,797.8	7,725.0	66.1	19.0	90.00	2,890.9	1,237.5	736.7	672.7	64.03	11.505	
11,200.0	7,740.0	7,797.8	7,725.0	67.8	19.0	90.00	2,890.9	1,237.5	821.9	760.0	61.97	13.263	
11,300.0	7,740.0	7,797.8	7,725.0	69.5	19.0	90.00	2,890.9	1,237.5	910.1	849.9	60.23	15.110	
11,400.0	7,740.0	7,797.8	7,725.0	71.1	19.0	90.00	2,890.9	1,237.5	1,000.6	941.8	58.77	17.025	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
10,400.0	7,740.0	7,688.9	7,686.4	54.5	13.7	75.39	3,776.4	909.2	978.3	944.1	34.20	28.609		
10,500.0	7,740.0	7,691.0	7,688.5	56.2	13.7	76.66	3,776.4	909.2	878.8	844.8	33.99	25.854		
10,600.0	7,740.0	7,693.1	7,690.6	57.8	13.7	77.98	3,776.5	909.2	779.4	745.7	33.73	23.109		
10,700.0	7,740.0	7,695.2	7,692.7	59.5	13.7	79.33	3,776.5	909.2	680.1	646.7	33.40	20.366		
10,800.0	7,740.0	7,700.0	7,697.5	61.1	13.7	82.43	3,776.7	909.3	581.1	548.1	32.98	17.618		
10,900.0	7,740.0	7,700.0	7,697.5	62.8	13.7	82.43	3,776.7	909.3	482.5	449.9	32.55	14.825		
11,000.0	7,740.0	7,702.0	7,699.5	64.4	13.7	83.71	3,776.7	909.3	384.6	352.3	32.23	11.930		
11,100.0	7,740.0	7,704.4	7,701.9	66.1	13.7	85.29	3,776.8	909.3	288.0	255.2	32.82	8.776		
11,200.0	7,740.0	7,706.8	7,704.2	67.8	13.7	86.86	3,776.8	909.3	195.1	157.5	37.56	5.193		
11,300.0	7,740.0	7,709.1	7,706.6	69.5	13.7	88.42	3,776.9	909.3	114.5	57.0	57.52	1.990		
11,374.8	7,740.0	7,710.9	7,708.4	70.7	13.7	89.59	3,776.9	909.4	86.7	4.0	82.75	1.048	Level 2, CC, ES, SF	
11,400.0	7,740.0	7,711.5	7,709.0	71.1	13.7	89.98	3,776.9	909.4	90.3	5.7	84.61	1.068	Level 2	
11,500.0	7,740.0	7,713.8	7,711.3	72.8	13.7	91.51	3,777.0	909.4	151.8	83.6	68.23	2.225		
11,600.0	7,740.0	7,716.2	7,713.7	74.5	13.7	92.95	3,777.0	909.4	240.0	183.3	56.71	4.232		
11,700.0	7,740.0	7,718.5	7,716.0	76.2	13.7	94.42	3,777.1	909.4	334.7	283.7	51.01	6.562		
11,800.0	7,740.0	7,720.9	7,718.3	77.9	13.7	95.88	3,777.1	909.4	431.8	383.9	47.88	9.019		
11,900.0	7,740.0	7,723.2	7,720.6	79.7	13.7	97.32	3,777.2	909.4	530.0	484.0	45.97	11.529		
12,000.0	7,740.0	7,725.5	7,722.9	81.4	13.7	98.74	3,777.2	909.4	628.7	584.0	44.72	14.060		
12,100.0	7,740.0	7,727.7	7,725.2	83.1	13.7	100.14	3,777.3	909.5	727.8	683.9	43.85	16.597		
12,200.0	7,740.0	7,730.0	7,727.5	84.8	13.7	101.52	3,777.3	909.5	827.1	783.8	43.23	19.131		
12,300.0	7,740.0	7,732.3	7,729.7	86.5	13.7	102.88	3,777.4	909.5	926.5	883.7	42.78	21.658		
12,400.0	7,740.0	7,734.5	7,732.0	88.2	13.7	104.21	3,777.5	909.5	1,026.1	983.6	42.44	24.175		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,200.0	7,740.0	7,835.3	7,717.2	67.8	24.4	-89.45	4,229.9	9.3	1,029.1	953.2	75.97	13.547	
11,300.0	7,740.0	7,835.1	7,717.0	69.5	24.4	-89.43	4,229.9	9.3	970.6	891.5	79.08	12.274	
11,400.0	7,740.0	7,835.0	7,716.8	71.1	24.4	-89.42	4,229.9	9.3	919.2	836.9	82.33	11.165	
11,500.0	7,740.0	7,834.8	7,716.7	72.8	24.4	-89.41	4,229.9	9.3	877.1	791.4	85.63	10.243	
11,600.0	7,740.0	7,834.6	7,716.5	74.5	24.4	-89.40	4,229.9	9.3	846.4	757.6	88.78	9.534	
11,700.0	7,740.0	7,834.4	7,716.3	76.2	24.4	-89.39	4,229.9	9.3	827.4	736.0	91.49	9.044	
11,800.0	7,740.0	7,834.2	7,716.1	77.9	24.4	-89.37	4,229.9	9.3	820.3	726.8	93.48	8.775	
11,808.7	7,740.0	7,834.2	7,716.0	78.1	24.4	-89.37	4,229.9	9.3	820.3	726.7	93.61	8.763 CC, ES	
11,900.0	7,740.0	7,834.0	7,715.8	79.7	24.4	-89.36	4,229.9	9.3	825.4	730.8	94.54	8.730 SF	
12,000.0	7,740.0	7,833.8	7,715.6	81.4	24.4	-89.34	4,229.9	9.3	842.3	747.7	94.59	8.905	
12,100.0	7,740.0	7,833.5	7,715.4	83.1	24.4	-89.33	4,229.9	9.3	870.5	776.8	93.69	9.291	
12,200.0	7,740.0	7,833.3	7,715.2	84.8	24.4	-89.31	4,229.9	9.3	908.9	816.8	92.04	9.875	
12,300.0	7,740.0	7,833.1	7,715.0	86.5	24.4	-89.30	4,229.9	9.3	956.2	866.3	89.85	10.642	
12,400.0	7,740.0	7,832.9	7,714.8	88.2	24.4	-89.28	4,229.9	9.3	1,011.2	923.9	87.35	11.577	
12,500.0	7,740.0	7,832.7	7,714.5	89.9	24.4	-89.27	4,229.9	9.3	1,072.8	988.1	84.71	12.664	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - S													Offset Site Error:	0.0 ft
Survey Program: 797-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,900.0	7,740.0	7,883.6	7,718.0	46.5	25.8	-89.53	2,903.3	-25.0	1,050.1	980.2	69.92	15.019		
10,000.0	7,740.0	7,885.0	7,719.5	48.1	25.8	-89.63	2,903.3	-25.0	995.5	923.9	71.56	13.911		
10,100.0	7,740.0	7,886.5	7,720.9	49.7	25.8	-89.72	2,903.4	-25.0	948.2	875.3	72.93	13.001		
10,200.0	7,740.0	7,887.9	7,722.3	51.3	25.8	-89.82	2,903.4	-25.0	909.5	835.6	73.90	12.308		
10,300.0	7,740.0	7,889.3	7,723.7	52.9	25.8	-89.92	2,903.4	-25.0	880.5	806.2	74.31	11.850		
10,400.0	7,740.0	7,890.8	7,725.2	54.5	25.8	-90.01	2,903.4	-25.0	862.2	788.2	74.05	11.644 SF		
10,500.0	7,740.0	7,892.2	7,726.6	56.2	25.8	-90.11	2,903.4	-25.0	855.3	782.2	73.07	11.704 ES		
10,509.5	7,740.0	7,892.3	7,726.7	56.3	25.8	-90.11	2,903.4	-25.0	855.2	782.3	72.95	11.724 CC		
10,600.0	7,740.0	7,893.6	7,728.0	57.8	25.8	-90.20	2,903.5	-25.0	860.0	788.6	71.44	12.038		
10,700.0	7,740.0	7,895.0	7,729.4	59.5	25.8	-90.29	2,903.5	-25.0	876.2	806.9	69.31	12.641		
10,800.0	7,740.0	7,896.4	7,730.8	61.1	25.8	-90.39	2,903.5	-25.0	903.2	836.3	66.89	13.503		
10,900.0	7,740.0	7,897.8	7,732.2	62.8	25.8	-90.48	2,903.5	-25.0	940.1	875.8	64.40	14.600		
11,000.0	7,740.0	7,899.2	7,733.6	64.4	25.8	-90.58	2,903.5	-25.0	985.9	923.9	62.00	15.902		
11,100.0	7,740.0	7,900.6	7,735.0	66.1	25.9	-90.67	2,903.6	-25.0	1,039.3	979.5	59.79	17.381		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
11,100.0	7,740.0	7,660.4	7,658.1	66.1	13.6	84.69	4,366.9	1,290.3	983.6	945.0	38.62	25.467	
11,200.0	7,740.0	7,665.5	7,663.1	67.8	13.6	85.30	4,367.1	1,290.4	897.3	855.7	41.65	21.543	
11,300.0	7,740.0	7,670.4	7,668.1	69.5	13.7	85.89	4,367.3	1,290.4	814.1	768.6	45.58	17.863	
11,400.0	7,740.0	7,675.3	7,672.9	71.1	13.7	86.48	4,367.6	1,290.4	735.1	684.6	50.57	14.538	
11,500.0	7,740.0	7,680.1	7,677.7	72.8	13.7	87.00	4,367.8	1,290.5	661.2	604.5	56.70	11.662	
11,600.0	7,740.0	7,684.8	7,682.4	74.5	13.7	87.55	4,368.0	1,290.5	593.5	529.5	63.98	9.276	
11,700.0	7,740.0	7,689.4	7,687.0	76.2	13.7	88.12	4,368.2	1,290.5	535.4	463.1	72.33	7.402	
11,800.0	7,740.0	7,693.9	7,691.6	77.9	13.7	88.69	4,368.4	1,290.6	490.9	409.8	81.13	6.051	
11,900.0	7,740.0	7,698.4	7,696.0	79.7	13.7	89.25	4,368.6	1,290.6	464.0	375.0	89.02	5.213	
11,978.6	7,740.0	7,701.8	7,699.4	81.0	13.7	89.68	4,368.7	1,290.6	457.4	363.9	93.50	4.892 CC	
12,000.0	7,740.0	7,702.8	7,700.4	81.4	13.7	89.80	4,368.8	1,290.6	457.9	363.5	94.36	4.852 ES, SF	
12,100.0	7,740.0	7,707.1	7,704.7	83.1	13.7	90.34	4,369.0	1,290.6	473.2	377.0	96.17	4.920	
12,200.0	7,740.0	7,711.4	7,709.0	84.8	13.7	90.88	4,369.2	1,290.7	508.0	413.2	94.82	5.358	
12,300.0	7,740.0	7,715.7	7,713.3	86.5	13.7	91.42	4,369.3	1,290.7	558.8	467.3	91.55	6.104	
12,400.0	7,740.0	7,720.0	7,717.6	88.2	13.7	91.96	4,369.5	1,290.7	621.6	534.1	87.50	7.105	
12,500.0	7,740.0	7,724.3	7,721.9	89.9	13.7	92.50	4,369.7	1,290.8	693.2	609.8	83.41	8.311	
12,600.0	7,740.0	7,728.7	7,726.3	91.6	13.8	93.04	4,369.9	1,290.8	771.1	691.5	79.62	9.684	
12,700.0	7,740.0	7,733.0	7,730.6	93.4	13.8	93.58	4,370.1	1,290.8	853.6	777.3	76.27	11.192	
12,800.0	7,740.0	7,737.3	7,734.9	95.1	13.8	94.11	4,370.3	1,290.9	939.5	866.1	73.35	12.809	
12,900.0	7,740.0	7,741.7	7,739.2	96.8	13.8	94.65	4,370.5	1,290.9	1,027.9	957.1	70.82	14.514	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
11,500.0	7,740.0	7,850.5	7,724.0	72.8	25.6	-90.00	4,835.9	619.1	956.4	908.0	48.41	19.755		
11,600.0	7,740.0	7,850.5	7,724.0	74.5	25.6	-90.00	4,835.9	619.1	859.3	809.1	50.23	17.109		
11,700.0	7,740.0	7,850.5	7,724.0	76.2	25.6	-90.00	4,835.9	619.1	763.3	710.7	52.58	14.518		
11,800.0	7,740.0	7,850.5	7,724.0	77.9	25.6	-90.00	4,835.9	619.1	668.4	612.8	55.64	12.012		
11,900.0	7,740.0	7,850.5	7,724.0	79.7	25.6	-90.00	4,835.9	619.1	575.3	515.5	59.78	9.623		
12,000.0	7,740.0	7,850.5	7,724.0	81.4	25.6	-90.00	4,835.9	619.1	484.8	419.3	65.54	7.398		
12,100.0	7,740.0	7,850.5	7,724.0	83.1	25.6	-90.00	4,835.9	619.1	399.0	325.2	73.81	5.406		
12,200.0	7,740.0	7,850.5	7,724.0	84.8	25.6	-90.00	4,835.9	619.1	321.5	235.8	85.65	3.754		
12,300.0	7,740.0	7,850.5	7,724.0	86.5	25.6	-90.00	4,835.9	619.1	259.8	159.1	100.72	2.580		
12,400.0	7,740.0	7,850.5	7,724.0	88.2	25.6	-90.00	4,835.9	619.1	227.3	115.4	111.87	2.032		
12,429.3	7,740.0	7,850.5	7,724.0	88.7	25.6	-90.00	4,835.9	619.1	225.4	113.0	112.35	2.006 CC, ES, SF		
12,500.0	7,740.0	7,850.5	7,724.0	89.9	25.6	-90.00	4,835.9	619.1	236.2	129.2	107.00	2.207		
12,600.0	7,740.0	7,850.5	7,724.0	91.6	25.6	-90.00	4,835.9	619.1	282.7	192.0	90.72	3.117		
12,700.0	7,740.0	7,850.5	7,724.0	93.4	25.6	-90.00	4,835.9	619.1	352.3	277.1	75.18	4.686		
12,800.0	7,740.0	7,850.5	7,724.0	95.1	25.6	-90.00	4,835.9	619.1	433.9	369.9	63.91	6.789		
12,900.0	7,740.0	7,850.5	7,724.0	96.8	25.6	-90.00	4,835.9	619.1	521.9	465.7	56.25	9.279		
13,000.0	7,740.0	7,850.5	7,724.0	98.5	25.6	-90.00	4,835.9	619.1	613.6	562.6	51.06	12.018		
13,100.0	7,740.0	7,850.5	7,724.0	100.3	25.6	-90.00	4,835.9	619.1	707.6	660.1	47.52	14.890		
13,200.0	7,740.0	7,850.5	7,724.0	102.0	25.6	-90.00	4,835.9	619.1	803.0	757.9	45.08	17.814		
13,300.0	7,740.0	7,850.5	7,724.0	103.7	25.6	-90.00	4,835.9	619.1	899.4	856.0	43.38	20.736		
13,400.0	7,740.0	7,850.5	7,724.0	105.4	25.6	-90.00	4,835.9	619.1	996.5	954.4	42.18	23.626		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
8,900.0	7,740.0	7,905.7	7,713.3	31.6	27.9	-87.64	2,278.9	575.1	1,013.9	969.6	44.32	22.877		
9,000.0	7,740.0	7,906.7	7,714.3	32.9	27.9	-87.86	2,278.9	575.1	917.6	872.0	45.62	20.115		
9,100.0	7,740.0	7,907.7	7,715.3	34.4	27.9	-88.08	2,279.0	575.1	822.2	775.0	47.19	17.423		
9,200.0	7,740.0	7,908.7	7,716.3	35.8	27.9	-88.30	2,279.0	575.1	728.1	678.9	49.14	14.818		
9,300.0	7,740.0	7,909.7	7,717.3	37.3	27.9	-88.52	2,279.0	575.1	635.7	584.1	51.58	12.324		
9,400.0	7,740.0	7,910.7	7,718.3	38.8	27.9	-88.74	2,279.0	575.1	546.1	491.3	54.72	9.979		
9,500.0	7,740.0	7,911.7	7,719.3	40.3	27.9	-88.97	2,279.0	575.1	460.7	401.9	58.75	7.841		
9,600.0	7,740.0	7,912.7	7,720.3	41.8	27.9	-89.19	2,279.0	575.1	382.4	318.6	63.81	5.994		
9,700.0	7,740.0	7,913.8	7,721.4	43.3	27.9	-89.42	2,279.0	575.0	316.7	247.4	69.31	4.569		
9,800.0	7,740.0	7,914.8	7,722.4	44.9	27.9	-89.65	2,279.0	575.0	272.6	199.9	72.66	3.752		
9,879.9	7,740.0	7,915.6	7,723.2	46.2	27.9	-89.83	2,279.0	575.0	260.6	190.0	70.61	3.691	CC, ES, SF	
9,900.0	7,740.0	7,915.8	7,723.4	46.5	27.9	-89.88	2,279.0	575.0	261.4	192.2	69.25	3.775		
10,000.0	7,740.0	7,916.9	7,724.5	48.1	27.9	-90.11	2,279.1	575.0	287.0	227.8	59.17	4.850		
10,100.0	7,740.0	7,917.9	7,725.5	49.7	27.9	-90.34	2,279.1	575.0	341.2	292.6	48.59	7.021		
10,200.0	7,740.0	7,919.0	7,726.6	51.3	27.9	-90.57	2,279.1	575.0	412.8	371.8	41.06	10.055		
10,300.0	7,740.0	7,920.1	7,727.7	52.9	27.9	-90.81	2,279.1	575.0	494.4	457.9	36.53	13.534		
10,400.0	7,740.0	7,921.1	7,728.7	54.5	27.9	-91.04	2,279.1	575.0	581.8	547.7	34.04	17.092		
10,500.0	7,740.0	7,922.2	7,729.8	56.2	27.9	-91.28	2,279.1	575.0	672.7	639.9	32.76	20.530		
10,600.0	7,740.0	7,923.3	7,730.9	57.8	27.9	-91.52	2,279.1	575.0	765.8	733.6	32.19	23.791		
10,700.0	7,740.0	7,924.4	7,732.0	59.5	27.9	-91.76	2,279.1	575.0	860.5	828.5	32.01	26.885		
10,800.0	7,740.0	7,925.5	7,733.1	61.1	27.9	-92.00	2,279.1	575.0	956.3	924.2	32.04	29.843		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SUR													Offset Site Error: 0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
12,900.0	7,740.0	7,693.0	7,693.0	96.8	13.4	-90.00	6,293.6	708.8	1,003.5	954.5	49.02	20.470	
13,000.0	7,740.0	7,693.0	7,693.0	98.5	13.4	-90.00	6,293.6	708.8	905.1	854.4	50.74	17.837	
13,100.0	7,740.0	7,693.0	7,693.0	100.3	13.4	-90.00	6,293.6	708.8	807.1	754.2	52.89	15.260	
13,200.0	7,740.0	7,693.0	7,693.0	102.0	13.4	-90.00	6,293.6	708.8	709.7	654.1	55.65	12.754	
13,300.0	7,740.0	7,693.0	7,693.0	103.7	13.4	-90.00	6,293.6	708.8	613.1	553.9	59.29	10.341	
13,400.0	7,740.0	7,693.0	7,693.0	105.4	13.4	-90.00	6,293.6	708.8	517.9	453.6	64.29	8.055	
13,500.0	7,740.0	7,693.0	7,693.0	107.2	13.4	-90.00	6,293.6	708.8	424.8	353.3	71.43	5.946	
13,600.0	7,740.0	7,693.0	7,693.0	108.9	13.4	-90.00	6,293.6	708.8	335.7	253.6	82.09	4.089	
13,700.0	7,740.0	7,693.0	7,693.0	110.6	13.4	-90.00	6,293.6	708.8	254.8	156.6	98.17	2.595	
13,800.0	7,740.0	7,693.0	7,693.0	112.4	13.4	-90.00	6,293.6	708.8	192.8	74.0	118.81	1.623	
13,888.8	7,740.0	7,693.0	7,693.0	113.9	13.4	-90.00	6,293.6	708.8	171.1	44.5	126.60	1.352 Level 3, CC, ES, SF	
13,900.0	7,740.0	7,693.0	7,693.0	114.1	13.4	-90.00	6,293.6	708.8	171.5	45.8	125.74	1.364 Level 3	
14,000.0	7,740.0	7,693.0	7,693.0	115.8	13.4	-90.00	6,293.6	708.8	204.1	100.2	103.95	1.964	
14,100.0	7,740.0	7,693.0	7,693.0	117.6	13.4	-90.00	6,293.6	708.8	271.9	192.2	79.66	3.413	
14,200.0	7,740.0	7,693.0	7,693.0	119.3	13.4	-90.00	6,293.6	708.8	355.2	291.4	63.78	5.569	
14,300.0	7,740.0	7,693.0	7,693.0	121.0	13.4	-90.00	6,293.6	708.8	445.4	391.3	54.12	8.229	
14,400.0	7,740.0	7,693.0	7,693.0	122.8	13.4	-90.00	6,293.6	708.8	539.1	490.9	48.17	11.191	
14,500.0	7,740.0	7,693.0	7,693.0	124.5	13.4	-90.00	6,293.6	708.8	634.7	590.3	44.42	14.288	
14,600.0	7,740.0	7,693.0	7,693.0	126.2	13.4	-90.00	6,293.6	708.8	731.5	689.5	42.02	17.408	
14,699.3	7,740.0	7,693.0	7,693.0	128.0	13.4	-90.00	6,293.6	708.8	828.4	788.0	40.48	20.466	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
12,400.0	7,740.0	7,697.0	7,697.0	88.2	13.4	-90.00	5,530.8	79.5	1,056.6	968.9	87.71	12.047	
12,500.0	7,740.0	7,697.0	7,697.0	89.9	13.4	-90.00	5,530.8	79.5	992.1	899.8	92.30	10.748	
12,600.0	7,740.0	7,697.0	7,697.0	91.6	13.4	-90.00	5,530.8	79.5	933.8	836.8	97.02	9.626	
12,700.0	7,740.0	7,697.0	7,697.0	93.4	13.4	-90.00	5,530.8	79.5	883.1	781.5	101.66	8.687	
12,800.0	7,740.0	7,697.0	7,697.0	95.1	13.4	-90.00	5,530.8	79.5	841.3	735.3	105.94	7.941	
12,900.0	7,740.0	7,697.0	7,697.0	96.8	13.4	-90.00	5,530.8	79.5	809.6	700.1	109.50	7.394	
13,000.0	7,740.0	7,697.0	7,697.0	98.5	13.4	-90.00	5,530.8	79.5	789.5	677.6	111.97	7.051	
13,100.0	7,740.0	7,697.0	7,697.0	100.3	13.4	-90.00	5,530.8	79.5	781.8	668.7	113.04	6.916	
13,110.9	7,740.0	7,697.0	7,697.0	100.4	13.4	-90.00	5,530.8	79.5	781.7	668.6	113.06	6.914	CC, ES, SF
13,200.0	7,740.0	7,697.0	7,697.0	102.0	13.4	-90.00	5,530.8	79.5	786.8	674.2	112.57	6.989	
13,300.0	7,740.0	7,697.0	7,697.0	103.7	13.4	-90.00	5,530.8	79.5	804.2	693.6	110.66	7.268	
13,400.0	7,740.0	7,697.0	7,697.0	105.4	13.4	-90.00	5,530.8	79.5	833.4	725.9	107.56	7.749	
13,500.0	7,740.0	7,697.0	7,697.0	107.2	13.4	-90.00	5,530.8	79.5	873.2	769.5	103.64	8.425	
13,600.0	7,740.0	7,697.0	7,697.0	108.9	13.4	-90.00	5,530.8	79.5	922.1	822.8	99.27	9.289	
13,700.0	7,740.0	7,697.0	7,697.0	110.6	13.4	-90.00	5,530.8	79.5	978.8	884.1	94.76	10.330	
13,800.0	7,740.0	7,697.0	7,697.0	112.4	13.4	-90.00	5,530.8	79.5	1,042.1	951.7	90.32	11.538	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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					
13,800.0	7,740.0	7,688.0	7,688.0	112.4	13.4	-90.00	6,883.4	78.9	1,050.8	941.8	109.00	9.640					
13,900.0	7,740.0	7,688.0	7,688.0	114.1	13.4	-90.00	6,883.4	78.9	990.7	876.0	114.66	8.640					
14,000.0	7,740.0	7,688.0	7,688.0	115.8	13.4	-90.00	6,883.4	78.9	937.5	817.2	120.31	7.792					
14,100.0	7,740.0	7,688.0	7,688.0	117.6	13.4	-90.00	6,883.4	78.9	892.3	766.7	125.67	7.101					
14,200.0	7,740.0	7,688.0	7,688.0	119.3	13.4	-90.00	6,883.4	78.9	856.5	726.2	130.36	6.571					
14,300.0	7,740.0	7,688.0	7,688.0	121.0	13.4	-90.00	6,883.4	78.9	831.3	697.3	133.97	6.205					
14,400.0	7,740.0	7,688.0	7,688.0	122.8	13.4	-90.00	6,883.4	78.9	817.6	681.5	136.12	6.006					
14,463.0	7,740.0	7,688.0	7,688.0	123.8	13.4	-90.00	6,883.4	78.9	815.1	678.5	136.60	5.967	CC, ES, SF				
14,500.0	7,740.0	7,688.0	7,688.0	124.5	13.4	-90.00	6,883.4	78.9	816.0	679.4	136.55	5.976					
14,600.0	7,740.0	7,688.0	7,688.0	126.2	13.4	-90.00	6,883.4	78.9	826.6	691.3	135.23	6.112					
14,699.3	7,740.0	7,688.0	7,688.0	128.0	13.4	-90.00	6,883.4	78.9	848.7	716.3	132.37	6.412					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
12,300.0	7,740.0	7,694.0	7,694.0	86.5	13.4	90.00	5,577.1	1,400.8	1,039.4	988.0	51.41	20.219		
12,400.0	7,740.0	7,694.0	7,694.0	88.2	13.4	90.00	5,577.1	1,400.8	955.3	899.4	55.91	17.086		
12,500.0	7,740.0	7,694.0	7,694.0	89.9	13.4	90.00	5,577.1	1,400.8	874.5	813.2	61.29	14.267		
12,600.0	7,740.0	7,694.0	7,694.0	91.6	13.4	90.00	5,577.1	1,400.8	798.0	730.3	67.67	11.793		
12,700.0	7,740.0	7,694.0	7,694.0	93.4	13.4	90.00	5,577.1	1,400.8	727.3	652.2	75.11	9.683		
12,800.0	7,740.0	7,694.0	7,694.0	95.1	13.4	90.00	5,577.1	1,400.8	664.2	580.6	83.56	7.948		
12,900.0	7,740.0	7,694.0	7,694.0	96.8	13.4	90.00	5,577.1	1,400.8	610.9	518.3	92.68	6.592		
13,000.0	7,740.0	7,694.0	7,694.0	98.5	13.4	90.00	5,577.1	1,400.8	570.4	468.7	101.73	5.607		
13,100.0	7,740.0	7,694.0	7,694.0	100.3	13.4	90.00	5,577.1	1,400.8	545.4	435.9	109.54	4.979		
13,189.3	7,740.0	7,694.0	7,694.0	101.8	13.4	90.00	5,577.1	1,400.8	538.1	423.7	114.42	4.703 CC		
13,200.0	7,740.0	7,694.0	7,694.0	102.0	13.4	90.00	5,577.1	1,400.8	538.2	423.4	114.83	4.687 ES, SF		
13,300.0	7,740.0	7,694.0	7,694.0	103.7	13.4	90.00	5,577.1	1,400.8	549.3	432.5	116.85	4.701		
13,400.0	7,740.0	7,694.0	7,694.0	105.4	13.4	90.00	5,577.1	1,400.8	577.9	462.1	115.77	4.992		
13,500.0	7,740.0	7,694.0	7,694.0	107.2	13.4	90.00	5,577.1	1,400.8	621.3	508.9	112.46	5.525		
13,600.0	7,740.0	7,694.0	7,694.0	108.9	13.4	90.00	5,577.1	1,400.8	676.9	568.9	107.98	6.269		
13,700.0	7,740.0	7,694.0	7,694.0	110.6	13.4	90.00	5,577.1	1,400.8	741.8	638.7	103.11	7.195		
13,800.0	7,740.0	7,694.0	7,694.0	112.4	13.4	90.00	5,577.1	1,400.8	813.9	715.6	98.35	8.276		
13,900.0	7,740.0	7,694.0	7,694.0	114.1	13.4	90.00	5,577.1	1,400.8	891.4	797.5	93.93	9.490		
14,000.0	7,740.0	7,694.0	7,694.0	115.8	13.4	90.00	5,577.1	1,400.8	973.0	883.1	89.95	10.817		
14,100.0	7,740.0	7,694.0	7,694.0	117.6	13.4	90.00	5,577.1	1,400.8	1,057.8	971.4	86.41	12.241		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 7894-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-174.57	-982.8	-93.5	987.3						
100.0	100.0	88.0	88.0	0.2	0.2	-174.57	-982.8	-93.5	987.2	986.9	0.31	3,230.198			
200.0	200.0	188.0	188.0	0.3	0.3	-174.57	-982.8	-93.5	987.2	986.6	0.65	1,507.952			
300.0	300.0	288.0	288.0	0.5	0.5	-174.57	-982.8	-93.5	987.2	986.2	1.00	983.552			
400.0	400.0	388.0	388.0	0.7	0.7	-174.57	-982.8	-93.5	987.2	985.9	1.35	729.770 CC			
500.0	500.0	488.0	488.0	0.9	0.9	91.60	-982.8	-93.5	987.3	985.6	1.70	579.922			
600.0	600.0	588.0	588.0	1.0	1.0	91.75	-982.8	-93.5	987.3	985.3	2.05	480.475			
700.0	699.9	687.9	687.9	1.2	1.2	92.00	-982.8	-93.5	987.5	985.1	2.41	409.133			
800.0	799.7	787.7	787.7	1.4	1.4	92.35	-982.8	-93.5	987.7	984.9	2.78	355.056			
900.0	899.4	887.4	887.4	1.6	1.5	92.80	-982.8	-93.5	988.1	984.9	3.16	312.380 ES			
1,000.0	998.9	986.9	986.9	1.8	1.7	93.35	-982.8	-93.5	988.6	985.0	3.56	277.676			
1,100.0	1,098.3	1,086.3	1,086.3	2.1	1.9	93.99	-982.8	-93.5	989.3	985.3	3.98	248.818			
1,200.0	1,197.5	1,185.5	1,185.5	2.3	2.1	94.69	-982.8	-93.5	990.3	985.9	4.40	225.114			
1,300.0	1,296.8	1,284.8	1,284.8	2.6	2.2	95.38	-982.8	-93.5	991.3	986.5	4.83	205.389			
1,400.0	1,396.0	1,384.0	1,384.0	2.8	2.4	96.08	-982.8	-93.5	992.6	987.3	5.26	188.781			
1,500.0	1,495.3	1,483.3	1,483.3	3.1	2.6	96.77	-982.8	-93.5	993.9	988.2	5.69	174.644			
1,600.0	1,594.5	1,582.5	1,582.5	3.4	2.8	97.46	-982.8	-93.5	995.4	989.3	6.13	162.489			
1,700.0	1,693.8	1,681.8	1,681.8	3.6	2.9	98.15	-982.8	-93.5	997.1	990.6	6.56	151.944			
1,800.0	1,793.0	1,781.0	1,781.0	3.9	3.1	98.84	-982.8	-93.5	998.9	991.9	7.00	142.720			
1,900.0	1,892.3	1,880.3	1,880.3	4.2	3.3	99.52	-982.8	-93.5	1,000.9	993.5	7.44	134.594			
2,000.0	1,991.6	1,979.6	1,979.6	4.4	3.5	100.21	-982.8	-93.5	1,003.0	995.1	7.87	127.388			
2,100.0	2,090.8	2,078.8	2,078.8	4.7	3.6	100.88	-982.8	-93.5	1,005.2	996.9	8.31	120.960			
2,200.0	2,190.1	2,178.1	2,178.1	5.0	3.8	101.56	-982.8	-93.5	1,007.6	998.9	8.75	115.194 SF			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	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)	(ft)			
8,800.0	7,740.0	7,930.0	7,769.5	30.2	26.3	-88.61	1,654.2	-84.7	1,034.4	988.0	46.44	22.273		
8,900.0	7,740.0	7,930.0	7,769.5	31.6	26.3	-88.61	1,654.2	-84.7	993.9	947.3	46.58	21.339		
9,000.0	7,740.0	7,939.2	7,778.7	32.9	26.3	-89.18	1,654.8	-84.7	962.1	915.4	46.71	20.598		
9,100.0	7,740.0	7,945.7	7,785.2	34.4	26.3	-89.58	1,655.2	-84.7	939.8	893.0	46.86	20.055		
9,200.0	7,740.0	7,952.5	7,792.0	35.8	26.3	-90.00	1,655.7	-84.6	927.8	880.7	47.11	19.695		
9,262.6	7,740.0	7,956.9	7,796.4	36.7	26.3	-90.27	1,656.0	-84.6	925.7	878.4	47.33	19.559	CC, ES	
9,300.0	7,740.0	7,959.6	7,799.1	37.3	26.3	-90.44	1,656.1	-84.6	926.5	879.0	47.48	19.513	SF	
9,400.0	7,740.0	7,966.9	7,806.4	38.8	26.3	-90.89	1,656.7	-84.6	935.8	887.9	47.95	19.517		
9,500.0	7,740.0	7,974.6	7,814.0	40.3	26.3	-91.36	1,657.2	-84.5	955.5	907.1	48.45	19.723		
9,600.0	7,740.0	7,982.5	7,821.9	41.8	26.4	-91.85	1,657.8	-84.5	985.0	936.1	48.90	20.143		
9,700.0	7,740.0	7,990.7	7,830.1	43.3	26.4	-92.36	1,658.4	-84.5	1,023.4	974.1	49.26	20.777		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	88.0	88.0	0.0	0.2	-38.89	131.5	-106.1	169.0					
100.0	100.0	188.0	188.0	0.2	0.3	-38.89	131.5	-106.1	169.0	168.5	0.48	351.874		
200.0	200.0	288.0	288.0	0.3	0.5	-38.89	131.5	-106.1	169.0	168.1	0.83	203.752		
300.0	300.0	388.0	388.0	0.5	0.7	-38.89	131.5	-106.1	169.0	167.8	1.18	143.391		
400.0	400.0	488.0	488.0	0.7	0.9	-38.89	131.5	-106.1	169.0	167.4	1.53	110.620 CC, ES		
500.0	500.0	588.0	588.0	0.9	1.0	-132.99	131.5	-106.1	169.5	167.7	1.88	90.345		
600.0	600.0	688.0	688.0	1.0	1.2	-133.62	131.5	-106.1	171.3	169.1	2.23	76.921		
700.0	699.9	787.9	787.9	1.2	1.4	-134.63	131.5	-106.1	174.4	171.8	2.58	67.556		
800.0	799.7	887.7	887.7	1.4	1.5	-135.99	131.5	-106.1	178.7	175.8	2.94	60.808		
900.0	899.4	987.4	987.4	1.6	1.7	-137.64	131.5	-106.1	184.5	181.2	3.30	55.866		
1,000.0	998.9	1,086.9	1,086.9	1.8	1.9	-139.52	131.5	-106.1	191.7	188.0	3.67	52.239		
1,100.0	1,098.3	1,186.3	1,186.3	2.1	2.1	-141.57	131.5	-106.1	200.4	196.4	4.04	49.612		
1,200.0	1,197.5	1,285.5	1,285.5	2.3	2.2	-143.63	131.5	-106.1	210.1	205.7	4.41	47.660		
1,300.0	1,296.8	1,384.8	1,384.8	2.6	2.4	-145.50	131.5	-106.1	220.1	215.3	4.78	46.081		
1,400.0	1,396.0	1,484.0	1,484.0	2.8	2.6	-147.22	131.5	-106.1	230.3	225.1	5.14	44.789		
1,500.0	1,495.3	1,583.3	1,583.3	3.1	2.8	-148.79	131.5	-106.1	240.6	235.1	5.50	43.720		
1,600.0	1,594.5	1,682.5	1,682.5	3.4	2.9	-150.22	131.5	-106.1	251.1	245.3	5.86	42.828		
1,700.0	1,693.8	1,781.8	1,781.8	3.6	3.1	-151.55	131.5	-106.1	261.8	255.6	6.22	42.075		
1,800.0	1,793.0	1,881.0	1,881.0	3.9	3.3	-152.76	131.5	-106.1	272.6	266.0	6.58	41.435		
1,900.0	1,892.3	1,980.3	1,980.3	4.2	3.5	-153.89	131.5	-106.1	283.5	276.6	6.93	40.887		
2,000.0	1,991.6	2,079.6	2,079.6	4.4	3.6	-154.93	131.5	-106.1	294.5	287.2	7.29	40.413		
2,100.0	2,090.8	2,178.8	2,178.8	4.7	3.8	-155.90	131.5	-106.1	305.6	298.0	7.64	40.001		
2,200.0	2,190.1	2,278.1	2,278.1	5.0	4.0	-156.80	131.5	-106.1	316.8	308.8	7.99	39.641		
2,300.0	2,289.3	2,377.3	2,377.3	5.3	4.1	-157.64	131.5	-106.1	328.0	319.7	8.34	39.324		
2,400.0	2,388.6	2,476.6	2,476.6	5.5	4.3	-158.42	131.5	-106.1	339.3	330.6	8.69	39.043		
2,500.0	2,487.8	2,575.8	2,575.8	5.8	4.5	-159.15	131.5	-106.1	350.7	341.7	9.04	38.794		
2,600.0	2,587.1	2,675.1	2,675.1	6.1	4.7	-159.83	131.5	-106.1	362.1	352.7	9.39	38.571		
2,700.0	2,686.3	2,774.3	2,774.3	6.4	4.8	-160.48	131.5	-106.1	373.6	363.9	9.74	38.370		
2,800.0	2,785.6	2,873.6	2,873.6	6.6	5.0	-161.08	131.5	-106.1	385.1	375.0	10.08	38.190		
2,900.0	2,884.8	2,972.8	2,972.8	6.9	5.2	-161.65	131.5	-106.1	396.7	386.2	10.43	38.027		
3,000.0	2,984.1	3,072.1	3,072.1	7.2	5.4	-162.19	131.5	-106.1	408.3	397.5	10.78	37.879		
3,100.0	3,083.4	3,171.4	3,171.4	7.4	5.5	-162.70	131.5	-106.1	419.9	408.8	11.12	37.744		
3,200.0	3,182.6	3,270.6	3,270.6	7.7	5.7	-163.18	131.5	-106.1	431.5	420.1	11.47	37.620		
3,300.0	3,281.9	3,369.9	3,369.9	8.0	5.9	-163.64	131.5	-106.1	443.2	431.4	11.82	37.507		
3,400.0	3,381.1	3,469.1	3,469.1	8.3	6.1	-164.07	131.5	-106.1	454.9	442.8	12.16	37.403		
3,500.0	3,480.4	3,568.4	3,568.4	8.5	6.2	-164.48	131.5	-106.1	466.7	454.2	12.51	37.307		
3,600.0	3,579.6	3,667.6	3,667.6	8.8	6.4	-164.87	131.5	-106.1	478.4	465.6	12.85	37.218		
3,700.0	3,678.9	3,766.9	3,766.9	9.1	6.6	-165.24	131.5	-106.1	490.2	477.0	13.20	37.136		
3,800.0	3,778.1	3,866.1	3,866.1	9.4	6.7	-165.59	131.5	-106.1	502.0	488.5	13.55	37.059		
3,900.0	3,877.4	3,965.4	3,965.4	9.6	6.9	-165.93	131.5	-106.1	513.8	499.9	13.89	36.988		
4,000.0	3,976.7	4,064.7	4,064.7	9.9	7.1	-166.26	131.5	-106.1	525.7	511.4	14.24	36.921		
4,100.0	4,075.9	4,163.9	4,163.9	10.2	7.3	-166.56	131.5	-106.1	537.5	522.9	14.58	36.859		
4,200.0	4,175.2	4,263.2	4,263.2	10.5	7.4	-166.86	131.5	-106.1	549.4	534.4	14.93	36.801		
4,300.0	4,274.4	4,362.4	4,362.4	10.7	7.6	-167.14	131.5	-106.1	561.2	546.0	15.27	36.747		
4,400.0	4,373.7	4,461.7	4,461.7	11.0	7.8	-167.41	131.5	-106.1	573.1	557.5	15.62	36.695		
4,500.0	4,472.9	4,560.9	4,560.9	11.3	8.0	-167.67	131.5	-106.1	585.0	569.1	15.96	36.647		
4,600.0	4,572.2	4,660.2	4,660.2	11.6	8.1	-167.92	131.5	-106.1	596.9	580.6	16.31	36.602		
4,700.0	4,671.4	4,759.4	4,759.4	11.8	8.3	-168.16	131.5	-106.1	608.9	592.2	16.65	36.559		
4,800.0	4,770.7	4,858.7	4,858.7	12.1	8.5	-168.39	131.5	-106.1	620.8	603.8	17.00	36.518		
4,900.0	4,869.9	4,957.9	4,957.9	12.4	8.7	-168.61	131.5	-106.1	632.7	615.4	17.35	36.479		
5,000.0	4,969.2	5,057.2	5,057.2	12.7	8.8	-168.83	131.5	-106.1	644.7	627.0	17.69	36.443		
5,100.0	5,068.5	5,156.5	5,156.5	12.9	9.0	-169.03	131.5	-106.1	656.7	638.6	18.04	36.408		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	5,167.7	5,255.7	5,255.7	13.2	9.2	-169.23	131.5	-106.1	668.6	650.3	18.38	36.375	
5,300.0	5,267.0	5,355.0	5,355.0	13.5	9.3	-169.42	131.5	-106.1	680.6	661.9	18.73	36.344	
5,400.0	5,366.2	5,454.2	5,454.2	13.8	9.5	-169.61	131.5	-106.1	692.6	673.5	19.07	36.314	
5,500.0	5,465.5	5,553.5	5,553.5	14.0	9.7	-169.79	131.5	-106.1	704.6	685.2	19.42	36.285	
5,600.0	5,564.7	5,652.7	5,652.7	14.3	9.9	-169.96	131.5	-106.1	716.6	696.8	19.76	36.258	
5,700.0	5,664.0	5,752.0	5,752.0	14.6	10.0	-170.13	131.5	-106.1	728.6	708.5	20.11	36.232	
5,800.0	5,763.2	5,851.2	5,851.2	14.9	10.2	-170.29	131.5	-106.1	740.6	720.1	20.45	36.207	
5,900.0	5,862.5	5,950.5	5,950.5	15.2	10.4	-170.45	131.5	-106.1	752.6	731.8	20.80	36.184	
6,000.0	5,961.7	6,049.7	6,049.7	15.4	10.6	-170.60	131.5	-106.1	764.6	743.5	21.15	36.161	
6,100.0	6,061.0	6,149.0	6,149.0	15.7	10.7	-170.74	131.5	-106.1	776.7	755.2	21.49	36.139	
6,200.0	6,160.3	6,248.3	6,248.3	16.0	10.9	-170.89	131.5	-106.1	788.7	766.9	21.84	36.118	
6,300.0	6,259.5	6,347.5	6,347.5	16.3	11.1	-171.02	131.5	-106.1	800.7	778.5	22.18	36.098	
6,400.0	6,358.8	6,446.8	6,446.8	16.5	11.3	-171.16	131.5	-106.1	812.8	790.2	22.53	36.078	
6,500.0	6,458.0	6,546.0	6,546.0	16.8	11.4	-171.29	131.5	-106.1	824.8	801.9	22.87	36.060	
6,600.0	6,557.3	6,645.3	6,645.3	17.1	11.6	-171.41	131.5	-106.1	836.9	813.6	23.22	36.042	
6,700.0	6,656.5	6,744.5	6,744.5	17.4	11.8	-171.54	131.5	-106.1	848.9	825.3	23.56	36.024	
6,800.0	6,755.8	6,843.8	6,843.8	17.6	11.9	-171.66	131.5	-106.1	861.0	837.1	23.91	36.008	
6,900.0	6,855.0	6,943.0	6,943.0	17.9	12.1	-171.77	131.5	-106.1	873.0	848.8	24.26	35.991	
7,000.0	6,954.3	7,042.3	7,042.3	18.2	12.3	-171.89	131.5	-106.1	885.1	860.5	24.60	35.976	
7,100.0	7,053.6	7,141.6	7,141.6	18.5	12.5	-172.00	131.5	-106.1	897.2	872.2	24.95	35.961	
7,200.0	7,152.8	7,240.8	7,240.8	18.7	12.6	-172.10	131.5	-106.1	909.2	883.9	25.29	35.946	
7,300.0	7,251.8	7,339.8	7,339.8	19.0	12.8	-118.21	131.5	-106.1	919.9	894.3	25.65	35.864	
7,400.0	7,348.3	7,436.3	7,436.3	19.3	13.0	-99.58	131.5	-106.1	927.2	901.2	26.01	35.646	
7,500.0	7,439.5	7,527.5	7,527.5	19.5	13.1	-94.46	131.5	-106.1	932.1	905.7	26.37	35.350	
7,600.0	7,522.5	7,610.5	7,610.5	19.8	13.3	-93.50	131.5	-106.1	936.5	909.8	26.72	35.054	
7,700.0	7,594.8	7,682.8	7,682.8	20.2	13.4	-94.04	131.5	-106.1	942.7	915.7	27.05	34.854	
7,800.0	7,654.3	7,742.3	7,742.3	20.6	13.5	-94.74	131.5	-106.1	953.2	925.8	27.36	34.843 SF	
7,900.0	7,699.1	7,787.1	7,787.1	21.1	13.6	-94.76	131.5	-106.1	969.9	942.3	27.63	35.098	
8,000.0	7,727.9	7,815.9	7,815.9	21.8	13.6	-93.52	131.5	-106.1	994.3	966.4	27.88	35.664	
8,100.0	7,739.7	7,827.7	7,827.7	22.6	13.7	-90.70	131.5	-106.1	1,026.3	998.2	28.09	36.541	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - G										Offset Site Error:		0.0 ft	
Survey Program: 100-MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,300.0	7,740.0	7,760.5	7,757.7	24.4	13.6	84.37	1,615.2	1,159.1	965.3	934.0	31.22	30.914	
8,400.0	7,740.0	7,763.1	7,760.2	25.4	13.6	84.83	1,615.3	1,159.1	871.5	840.8	30.67	28.413	
8,500.0	7,740.0	7,765.6	7,762.8	26.5	13.6	85.28	1,615.4	1,159.2	779.3	749.2	30.06	25.926	
8,600.0	7,740.0	7,768.2	7,765.3	27.7	13.6	85.74	1,615.4	1,159.3	689.3	659.8	29.43	23.419	
8,700.0	7,740.0	7,770.7	7,767.9	28.9	13.6	86.20	1,615.5	1,159.3	602.4	573.4	28.94	20.815	
8,800.0	7,740.0	7,773.3	7,770.5	30.2	13.6	86.66	1,615.6	1,159.4	520.2	491.2	28.95	17.970	
8,900.0	7,740.0	7,775.9	7,773.0	31.6	13.6	87.12	1,615.6	1,159.5	445.3	415.2	30.17	14.761	
9,000.0	7,740.0	7,778.4	7,775.6	32.9	13.6	87.58	1,615.7	1,159.5	382.2	348.7	33.50	11.408	
9,100.0	7,740.0	7,781.0	7,778.1	34.4	13.6	88.04	1,615.8	1,159.6	337.3	298.1	39.13	8.619	
9,200.0	7,740.0	7,783.5	7,780.7	35.8	13.6	88.50	1,615.8	1,159.7	318.5	272.9	45.58	6.988	
9,211.6	7,740.0	7,783.8	7,781.0	36.0	13.6	88.55	1,615.8	1,159.7	318.3	272.0	46.25	6.881	CC, ES
9,300.0	7,740.0	7,786.1	7,783.2	37.3	13.6	88.96	1,615.9	1,159.7	330.3	280.0	50.29	6.569	SF
9,400.0	7,740.0	7,788.6	7,785.8	38.8	13.6	89.42	1,616.0	1,159.8	369.8	317.6	52.21	7.084	
9,500.0	7,740.0	7,791.2	7,788.3	40.3	13.6	89.88	1,616.0	1,159.9	429.5	377.2	52.23	8.223	
9,600.0	7,740.0	7,793.8	7,790.9	41.8	13.7	90.34	1,616.1	1,159.9	502.1	450.6	51.45	9.759	
9,700.0	7,740.0	7,796.3	7,793.5	43.3	13.7	90.80	1,616.1	1,160.0	582.8	532.4	50.47	11.547	
9,800.0	7,740.0	7,798.9	7,796.0	44.9	13.7	91.26	1,616.2	1,160.0	668.8	619.3	49.54	13.500	
9,900.0	7,740.0	7,801.5	7,798.6	46.5	13.7	91.73	1,616.3	1,160.1	758.2	709.5	48.73	15.560	
10,000.0	7,740.0	7,804.2	7,801.3	48.1	13.7	92.21	1,616.3	1,160.2	850.0	802.0	48.04	17.694	
10,100.0	7,740.0	7,806.9	7,804.0	49.7	13.7	92.69	1,616.4	1,160.2	943.4	896.0	47.46	19.877	
10,200.0	7,740.0	7,809.6	7,806.7	51.3	13.7	93.18	1,616.5	1,160.3	1,038.1	991.1	46.98	22.095	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
4,200.0	4,175.2	4,523.9	4,330.1	10.5	22.8	-29.53	397.4	1,328.5	1,009.1	979.2	29.91	33.741		
4,300.0	4,274.4	4,603.1	4,405.0	10.7	23.2	-28.34	372.0	1,332.5	989.4	958.7	30.65	32.278		
4,400.0	4,373.7	4,688.5	4,486.6	11.0	23.7	-27.15	347.0	1,337.2	971.7	940.3	31.38	30.962		
4,500.0	4,472.9	4,787.1	4,581.0	11.3	24.2	-25.77	319.0	1,342.6	954.9	922.7	32.14	29.708		
4,600.0	4,572.2	4,898.3	4,687.9	11.6	24.8	-24.30	289.0	1,346.9	937.7	904.8	32.90	28.502		
4,700.0	4,671.4	4,987.1	4,773.7	11.8	25.2	-23.15	265.9	1,349.2	920.2	886.7	33.55	27.424		
4,800.0	4,770.7	5,070.6	4,854.7	12.1	25.6	-22.15	246.2	1,352.0	904.5	870.3	34.15	26.487		
4,900.0	4,869.9	5,164.0	4,946.0	12.4	25.9	-21.17	227.0	1,355.2	890.2	855.5	34.71	25.647		
5,000.0	4,969.2	5,259.4	5,039.9	12.7	26.2	-20.35	210.4	1,357.8	876.4	841.2	35.22	24.883		
5,100.0	5,068.5	5,356.4	5,135.9	12.9	26.5	-19.65	196.0	1,360.0	863.0	827.3	35.70	24.175		
5,200.0	5,167.7	5,457.2	5,235.8	13.2	26.8	-19.04	182.9	1,361.6	849.6	813.5	36.14	23.510		
5,300.0	5,267.0	5,556.4	5,334.4	13.5	27.0	-18.61	172.4	1,362.5	836.2	799.7	36.53	22.891		
5,400.0	5,366.2	5,652.2	5,429.9	13.8	27.1	-18.35	164.9	1,362.7	822.9	786.0	36.89	22.310		
5,500.0	5,465.5	5,739.4	5,516.9	14.0	27.3	-18.24	160.0	1,363.2	810.6	773.4	37.20	21.791		
5,600.0	5,564.7	5,844.6	5,622.1	14.3	27.3	-18.36	157.8	1,364.3	799.5	762.0	37.46	21.341		
5,700.0	5,664.0	5,945.5	5,723.0	14.6	27.4	-18.66	157.7	1,362.9	786.6	748.9	37.72	20.853		
5,800.0	5,763.2	6,034.8	5,812.3	14.9	27.5	-18.90	157.4	1,362.7	774.8	736.8	37.99	20.396		
5,900.0	5,862.5	6,131.9	5,909.4	15.2	27.5	-19.16	157.2	1,363.4	763.9	725.6	38.24	19.975		
6,000.0	5,961.7	6,230.6	6,008.1	15.4	27.6	-19.48	157.6	1,364.0	753.1	714.6	38.49	19.564		
6,100.0	6,061.0	6,327.2	6,104.7	15.7	27.7	-19.81	158.1	1,364.8	742.5	703.7	38.75	19.159		
6,200.0	6,160.3	6,425.2	6,202.7	16.0	27.7	-20.13	158.5	1,366.0	732.3	693.3	39.02	18.769		
6,300.0	6,259.5	6,527.7	6,305.2	16.3	27.8	-20.48	158.8	1,367.1	721.9	682.7	39.28	18.380		
6,400.0	6,358.8	6,628.4	6,405.9	16.5	27.9	-20.84	159.2	1,367.7	711.3	671.7	39.55	17.986		
6,500.0	6,458.0	6,727.7	6,505.2	16.8	27.9	-21.19	159.4	1,368.4	700.6	660.7	39.81	17.596		
6,600.0	6,557.3	6,826.8	6,604.3	17.1	28.0	-21.54	159.5	1,369.1	689.9	649.8	40.09	17.209		
6,700.0	6,656.5	6,925.8	6,703.3	17.4	28.1	-21.89	159.4	1,369.9	679.3	639.0	40.37	16.829		
6,800.0	6,755.8	7,024.7	6,802.2	17.6	28.2	-22.24	159.2	1,370.8	668.8	628.2	40.65	16.454		
6,900.0	6,855.0	7,123.7	6,901.1	17.9	28.3	-22.59	158.9	1,371.8	658.4	617.5	40.93	16.084		
7,000.0	6,954.3	7,222.4	6,999.9	18.2	28.4	-22.90	158.1	1,373.0	648.1	606.8	41.24	15.715		
7,100.0	7,053.6	7,323.2	7,100.7	18.5	28.5	-23.17	156.7	1,374.5	637.8	596.3	41.54	15.355		
7,200.0	7,152.8	7,426.2	7,203.7	18.7	28.5	-23.50	155.7	1,375.4	627.1	585.2	41.83	14.992		
7,300.0	7,251.8	7,531.6	7,309.1	19.0	28.6	31.36	155.0	1,375.3	613.5	571.5	42.03	14.598		
7,400.0	7,348.3	7,633.8	7,411.2	19.3	28.7	54.45	154.7	1,373.9	593.9	551.8	42.08	14.113		
7,500.0	7,439.5	7,721.6	7,499.1	19.5	28.8	66.79	154.5	1,372.5	571.3	529.2	42.07	13.580		
7,600.0	7,522.5	7,801.8	7,579.2	19.8	28.9	76.72	154.4	1,371.6	549.9	507.9	42.08	13.069		
7,700.0	7,594.8	7,873.1	7,650.5	20.2	28.9	85.31	154.3	1,371.1	534.8	492.4	42.32	12.636		
7,774.3	7,640.4	7,918.2	7,695.7	20.5	28.9	90.43	154.4	1,370.8	530.8	488.0	42.77	12.411 CC, ES		
7,800.0	7,654.3	7,932.1	7,709.5	20.6	29.0	91.87	154.5	1,370.7	531.3	488.3	42.95	12.371 SF		
7,900.0	7,699.1	7,976.9	7,754.4	21.1	29.0	95.56	154.7	1,370.5	544.3	500.5	43.78	12.431		
8,000.0	7,727.9	8,006.0	7,783.4	21.8	29.0	95.69	154.8	1,370.4	575.7	531.3	44.45	12.953		
8,100.0	7,739.7	8,018.3	7,795.7	22.6	29.0	91.69	154.9	1,370.3	624.2	579.5	44.74	13.953		
8,200.0	7,740.0	8,019.1	7,796.5	23.4	29.0	90.50	154.9	1,370.3	685.5	640.7	44.72	15.328		
8,300.0	7,740.0	8,019.7	7,797.1	24.4	29.0	90.56	154.9	1,370.3	755.0	710.5	44.54	16.952		
8,400.0	7,740.0	8,020.2	7,797.6	25.4	29.0	90.63	154.9	1,370.3	830.8	786.5	44.30	18.755		
8,500.0	7,740.0	8,020.8	7,798.2	26.5	29.0	90.69	154.9	1,370.3	911.3	867.3	44.06	20.683		
8,600.0	7,740.0	8,021.3	7,798.7	27.7	29.0	90.75	154.9	1,370.3	995.4	951.5	43.85	22.699		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
2,800.0	2,785.6	3,389.1	3,183.8	6.6	19.5	-42.37	550.6	1,014.8	1,013.9	994.8	19.17	52.893	
2,900.0	2,884.8	3,479.3	3,264.3	6.9	20.2	-41.06	510.6	1,007.4	971.0	950.9	20.10	48.319	
3,000.0	2,984.1	3,558.1	3,334.7	7.2	20.9	-39.78	475.6	1,001.9	929.4	908.4	21.04	44.165	
3,100.0	3,083.4	3,648.5	3,415.5	7.4	21.6	-38.16	435.4	996.2	888.9	866.8	22.07	40.280	
3,200.0	3,182.6	3,743.1	3,500.1	7.7	22.4	-36.39	393.8	988.9	848.1	825.0	23.11	36.707	
3,300.0	3,281.9	3,828.5	3,577.0	8.0	23.0	-34.76	357.3	981.3	808.0	783.8	24.11	33.505	
3,400.0	3,381.1	3,911.9	3,652.8	8.3	23.6	-33.17	323.5	973.3	769.0	743.9	25.12	30.614	
3,500.0	3,480.4	3,994.3	3,727.9	8.5	24.2	-31.46	290.3	965.9	731.5	705.3	26.18	27.945	
3,600.0	3,579.6	4,080.5	3,806.3	8.8	24.9	-29.42	255.3	959.5	695.7	668.4	27.31	25.472	
3,700.0	3,678.9	4,165.4	3,883.3	9.1	25.5	-27.14	219.9	953.6	660.9	632.4	28.53	23.170	
3,800.0	3,778.1	4,243.8	3,954.1	9.4	26.1	-24.71	186.5	950.2	629.1	599.4	29.79	21.116	
3,900.0	3,877.4	4,333.4	4,035.1	9.6	26.8	-21.68	148.3	946.7	599.4	568.3	31.14	19.251	
4,000.0	3,976.7	4,424.9	4,118.0	9.9	27.5	-18.35	109.7	943.3	571.9	539.4	32.51	17.592	
4,100.0	4,075.9	4,527.0	4,208.7	10.2	28.4	-13.94	63.2	938.6	545.0	511.0	34.04	16.011	
4,200.0	4,175.2	4,617.5	4,288.3	10.5	29.1	-9.54	20.4	933.3	519.7	484.2	35.51	14.637	
4,300.0	4,274.4	4,699.3	4,360.8	10.7	29.8	-5.35	-17.4	928.6	498.3	461.5	36.81	13.537	
4,400.0	4,373.7	4,783.4	4,436.6	11.0	30.4	-1.12	-53.5	924.9	481.8	443.9	37.92	12.706	
4,500.0	4,472.9	4,875.0	4,520.8	11.3	31.0	3.28	-89.3	921.3	469.0	430.1	38.86	12.068	
4,600.0	4,572.2	4,974.9	4,614.1	11.6	31.7	7.83	-124.6	917.2	458.7	419.0	39.67	11.563	
4,700.0	4,671.4	5,070.8	4,704.8	11.8	32.2	12.02	-155.5	912.3	449.6	409.3	40.28	11.161	
4,800.0	4,770.7	5,167.8	4,797.3	12.1	32.7	16.05	-184.2	908.0	442.8	402.1	40.72	10.874	
4,900.0	4,869.9	5,268.8	4,895.0	12.4	33.2	19.83	-209.8	904.1	437.2	396.2	41.05	10.652	
5,000.0	4,969.2	5,371.1	4,995.0	12.7	33.5	23.15	-231.2	900.8	432.0	390.8	41.24	10.475	
5,100.0	5,068.5	5,473.1	5,095.4	12.9	33.9	26.07	-248.8	898.1	426.9	385.6	41.38	10.317	
5,200.0	5,167.7	5,579.5	5,200.6	13.2	34.2	28.91	-264.7	895.1	421.6	380.1	41.46	10.168	
5,300.0	5,267.0	5,686.7	5,307.1	13.5	34.4	31.33	-276.0	892.1	414.5	373.0	41.51	9.987	
5,400.0	5,366.2	5,792.1	5,412.1	13.8	34.6	33.45	-284.1	889.1	406.4	364.9	41.51	9.791	
5,500.0	5,465.5	5,893.4	5,513.3	14.0	34.7	35.13	-288.8	887.2	397.7	356.2	41.51	9.581	
5,600.0	5,564.7	5,999.6	5,619.5	14.3	34.8	36.68	-291.2	885.4	388.0	346.5	41.51	9.346	
5,700.0	5,664.0	6,101.6	5,721.4	14.6	34.8	38.03	-291.4	883.5	377.0	335.5	41.52	9.079	
5,800.0	5,763.2	6,200.2	5,820.0	14.9	34.9	39.36	-291.3	881.8	366.1	324.5	41.53	8.815	
5,900.0	5,862.5	6,298.8	5,918.6	15.2	34.9	40.79	-291.3	880.1	355.5	314.0	41.51	8.563	
6,000.0	5,961.7	6,397.6	6,017.4	15.4	35.0	42.31	-291.4	878.4	345.2	303.8	41.47	8.326	
6,100.0	6,061.0	6,496.4	6,116.2	15.7	35.1	43.92	-291.6	876.8	335.3	293.9	41.39	8.102	
6,200.0	6,160.3	6,595.4	6,215.2	16.0	35.1	45.54	-291.4	875.6	325.7	284.4	41.28	7.890	
6,300.0	6,259.5	6,694.3	6,314.1	16.3	35.2	47.12	-290.9	874.9	316.4	275.2	41.18	7.684	
6,400.0	6,358.8	6,792.9	6,412.7	16.5	35.2	48.80	-290.4	874.3	307.5	266.4	41.04	7.492	
6,500.0	6,458.0	6,891.7	6,511.5	16.8	35.3	50.63	-290.3	873.7	299.0	258.2	40.86	7.318	
6,600.0	6,557.3	6,990.8	6,610.5	17.1	35.3	52.60	-290.3	872.9	291.0	250.3	40.64	7.160	
6,700.0	6,656.5	7,090.0	6,709.7	17.4	35.4	54.72	-290.4	871.9	283.3	242.9	40.36	7.019	
6,800.0	6,755.8	7,189.2	6,808.9	17.6	35.5	57.01	-290.6	870.7	276.0	236.0	40.02	6.896	
6,900.0	6,855.0	7,288.4	6,908.1	17.9	35.5	59.47	-290.9	869.3	269.1	229.5	39.62	6.793	
7,000.0	6,954.3	7,387.7	7,007.4	18.2	35.6	62.07	-291.2	867.8	262.8	223.6	39.17	6.709	
7,100.0	7,053.6	7,487.3	7,107.0	18.5	35.7	64.82	-291.4	866.1	256.8	218.1	38.66	6.642	
7,200.0	7,152.8	7,586.7	7,206.4	18.7	35.8	67.73	-291.4	864.2	251.3	213.2	38.11	6.594 SF	
7,234.9	7,187.4	7,621.3	7,241.0	18.8	35.8	92.77	-291.4	863.5	250.3	212.4	37.90	6.605 CC, ES	
7,300.0	7,251.8	7,685.7	7,305.3	19.0	35.8	124.57	-291.4	862.3	252.6	215.2	37.44	6.748	
7,400.0	7,348.3	7,782.7	7,402.4	19.3	35.9	147.57	-291.2	860.4	271.6	234.9	36.64	7.412	
7,500.0	7,439.5	7,874.7	7,494.4	19.5	35.9	157.79	-290.7	858.7	307.9	271.9	35.98	8.557	
7,600.0	7,522.5	7,958.3	7,578.0	19.8	36.0	163.79	-290.0	857.2	360.5	324.9	35.59	10.129	
7,700.0	7,594.8	8,031.6	7,651.2	20.2	36.0	167.63	-289.4	856.4	427.5	392.0	35.44	12.063	
7,800.0	7,654.3	8,092.0	7,711.6	20.6	36.0	170.20	-288.7	855.9	506.5	471.1	35.43	14.295	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
7,900.0	7,699.1	8,137.6	7,757.2	21.1	36.1	172.02	-288.3	855.7	595.1	559.6	35.51	16.760	
8,000.0	7,727.9	8,167.3	7,786.9	21.8	36.1	173.60	-288.0	855.6	690.4	654.8	35.61	19.385	
8,100.0	7,739.7	8,180.2	7,799.8	22.6	36.1	179.00	-287.8	855.5	789.4	753.7	35.73	22.095	
8,200.0	7,740.0	8,181.5	7,801.1	23.4	36.1	-164.23	-287.8	855.5	889.4	853.6	35.85	24.810	
8,300.0	7,740.0	8,182.5	7,802.1	24.4	36.1	-165.74	-287.8	855.5	989.4	953.4	35.97	27.508	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design		S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)					
9,300.0	7,740.0	7,849.9	7,768.7	37.3	19.6	88.49	2,172.1	1,723.4	1,000.6	960.9	39.67	25.224			
9,400.0	7,740.0	7,852.4	7,771.1	38.8	19.6	88.65	2,172.1	1,723.4	958.4	915.0	43.41	22.080			
9,500.0	7,740.0	7,854.8	7,773.6	40.3	19.6	88.81	2,172.2	1,723.5	925.2	877.7	47.51	19.474			
9,600.0	7,740.0	7,857.2	7,776.0	41.8	19.6	88.96	2,172.3	1,723.5	901.9	850.1	51.78	17.415			
9,700.0	7,740.0	7,859.6	7,778.4	43.3	19.6	89.12	2,172.3	1,723.5	889.2	833.2	56.01	15.878			
9,763.2	7,740.0	7,861.1	7,779.9	44.3	19.6	89.22	2,172.3	1,723.6	887.0	828.4	58.54	15.153 CC			
9,800.0	7,740.0	7,862.0	7,780.8	44.9	19.6	89.28	2,172.4	1,723.6	887.7	827.8	59.94	14.812 ES			
9,900.0	7,740.0	7,864.4	7,783.2	46.5	19.6	89.43	2,172.4	1,723.6	897.5	834.1	63.38	14.161			
10,000.0	7,740.0	7,866.8	7,785.6	48.1	19.6	89.58	2,172.5	1,723.6	918.0	851.8	66.20	13.867 SF			
10,100.0	7,740.0	7,869.2	7,787.9	49.7	19.7	89.74	2,172.5	1,723.7	948.8	880.4	68.37	13.876			
10,200.0	7,740.0	7,871.5	7,790.3	51.3	19.7	89.89	2,172.6	1,723.7	988.7	918.7	69.92	14.140			
10,300.0	7,740.0	7,873.9	7,792.6	52.9	19.7	90.04	2,172.7	1,723.7	1,036.7	965.8	70.92	14.618			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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
2,400.0	2,388.6	2,414.3	2,414.0	5.5	4.2	-59.37	815.1	772.9	1,007.2	997.7	9.44	106.693	
2,500.0	2,487.8	2,518.2	2,517.9	5.8	4.4	-60.05	816.5	772.7	1,002.0	992.1	9.89	101.361	
2,600.0	2,587.1	2,619.1	2,618.8	6.1	4.6	-60.71	817.5	772.5	996.7	986.3	10.33	96.506	
2,700.0	2,686.3	2,720.4	2,720.1	6.4	4.8	-61.38	818.4	772.0	991.2	980.5	10.77	92.016	
2,800.0	2,785.6	2,818.9	2,818.6	6.6	4.9	-62.04	819.2	771.7	985.9	974.7	11.21	87.920	
2,900.0	2,884.8	2,920.6	2,920.3	6.9	5.1	-62.73	820.0	771.1	980.6	968.9	11.66	84.074	
3,000.0	2,984.1	3,020.3	3,020.0	7.2	5.3	-63.45	820.9	770.0	975.3	963.2	12.11	80.516	
3,100.0	3,083.4	3,120.9	3,120.6	7.4	5.5	-64.18	821.8	768.8	970.1	957.5	12.57	77.198	
3,200.0	3,182.6	3,221.9	3,221.6	7.7	5.6	-64.94	822.6	767.4	964.7	951.7	13.02	74.089	
3,300.0	3,281.9	3,319.0	3,318.6	8.0	5.8	-65.68	823.4	765.8	959.6	946.1	13.47	71.225	
3,400.0	3,381.1	3,413.8	3,413.4	8.3	6.0	-66.42	824.6	764.4	955.0	941.1	13.92	68.598	
3,500.0	3,480.4	3,509.5	3,509.1	8.5	6.2	-67.15	825.8	763.5	950.9	936.6	14.37	66.167	
3,600.0	3,579.6	3,600.0	3,599.6	8.8	6.3	-67.83	827.4	763.1	947.7	932.8	14.81	63.975	
3,700.0	3,678.9	3,692.6	3,692.1	9.1	6.5	-68.52	829.7	763.2	945.3	930.1	15.26	61.956	
3,800.0	3,778.1	3,798.2	3,797.7	9.4	6.7	-69.33	832.5	763.0	943.3	927.5	15.73	59.965	
3,900.0	3,877.4	3,907.6	3,907.1	9.6	6.9	-70.17	834.4	762.4	940.4	924.2	16.21	58.020	
4,000.0	3,976.7	4,012.3	4,011.8	9.9	7.0	-70.98	835.5	761.6	937.0	920.3	16.68	56.177	
4,100.0	4,075.9	4,120.9	4,120.3	10.2	7.2	-71.85	835.8	759.9	932.7	915.6	17.16	54.359	
4,200.0	4,175.2	4,216.9	4,216.3	10.5	7.4	-72.66	836.2	757.8	928.5	910.9	17.62	52.698	
4,300.0	4,274.4	4,318.4	4,317.8	10.7	7.6	-73.50	836.3	756.0	924.5	906.4	18.09	51.109	
4,400.0	4,373.7	4,415.8	4,415.2	11.0	7.8	-74.29	836.3	754.6	920.6	902.0	18.55	49.626	
4,500.0	4,472.9	4,512.0	4,511.4	11.3	7.9	-75.13	836.8	752.6	917.1	898.0	19.01	48.230	
4,600.0	4,572.2	4,601.3	4,600.6	11.6	8.1	-75.94	838.0	750.3	914.5	895.0	19.47	46.977	
4,700.0	4,671.4	4,707.4	4,706.7	11.8	8.3	-76.89	839.5	748.0	912.3	892.3	19.95	45.734	
4,800.0	4,770.7	4,809.0	4,808.3	12.1	8.5	-77.79	840.3	745.9	909.8	889.4	20.42	44.554	
4,900.0	4,869.9	4,913.7	4,913.0	12.4	8.6	-78.67	840.4	744.4	907.0	886.1	20.89	43.412	
5,000.0	4,969.2	5,014.2	5,013.5	12.7	8.8	-79.50	840.0	743.2	904.0	882.6	21.36	42.323	
5,100.0	5,068.5	5,107.4	5,106.6	12.9	9.0	-80.29	840.0	741.9	901.5	879.7	21.81	41.325	
5,200.0	5,167.7	5,205.5	5,204.8	13.2	9.2	-81.16	840.5	740.1	899.6	877.3	22.28	40.378	
5,300.0	5,267.0	5,306.9	5,306.1	13.5	9.3	-82.08	840.9	738.0	897.7	875.0	22.75	39.464	
5,400.0	5,366.2	5,400.0	5,399.2	13.8	9.5	-82.89	841.5	736.6	896.4	873.2	23.20	38.637	
5,500.0	5,465.5	5,503.7	5,502.9	14.0	9.7	-83.76	842.0	735.5	895.3	871.6	23.67	37.826	
5,600.0	5,564.7	5,600.2	5,599.4	14.3	9.8	-84.59	842.4	734.4	894.3	870.1	24.12	37.070	
5,700.0	5,664.0	5,699.7	5,698.9	14.6	10.0	-85.47	843.0	732.8	893.6	869.0	24.59	36.346	
5,800.0	5,763.2	5,801.7	5,800.9	14.9	10.2	-86.40	843.5	730.7	892.9	867.8	25.05	35.645	
5,900.0	5,862.5	5,898.6	5,897.8	15.2	10.4	-87.29	843.9	728.6	892.4	866.9	25.50	34.990	
6,000.0	5,961.7	5,997.5	5,996.6	15.4	10.6	-88.19	844.5	726.7	892.2	866.3	25.96	34.372	
6,100.0	6,061.0	6,103.2	6,102.3	15.7	10.7	-89.17	844.7	724.4	891.9	865.5	26.42	33.754	
6,200.0	6,160.3	6,202.1	6,201.1	16.0	10.9	-90.10	844.5	721.9	891.5	864.6	26.88	33.171	
6,290.5	6,250.1	6,290.8	6,289.9	16.2	11.1	-90.93	844.4	719.7	891.4	864.1	27.28	32.673	
6,300.0	6,259.5	6,300.0	6,299.0	16.3	11.1	-91.01	844.4	719.5	891.4	864.0	27.32	32.622	
6,400.0	6,358.8	6,397.5	6,396.5	16.5	11.3	-91.90	844.4	717.6	891.6	863.8	27.77	32.110	
6,500.0	6,458.0	6,487.5	6,486.5	16.8	11.4	-92.72	844.9	715.8	892.6	864.4	28.19	31.660	
6,600.0	6,557.3	6,590.7	6,589.7	17.1	11.6	-93.63	845.9	714.1	894.3	865.6	28.64	31.222	
6,700.0	6,656.5	6,688.5	6,687.5	17.4	11.8	-94.47	846.6	712.9	895.8	866.7	29.08	30.806	
6,800.0	6,755.8	6,793.0	6,791.9	17.6	12.0	-95.37	847.1	711.5	897.4	867.9	29.52	30.396	
6,900.0	6,855.0	6,892.1	6,891.0	17.9	12.1	-96.23	847.3	710.0	898.9	868.9	29.96	30.003	
7,000.0	6,954.3	6,987.4	6,986.3	18.2	12.3	-97.10	847.6	707.9	900.7	870.3	30.38	29.646	
7,100.0	7,053.6	7,094.5	7,093.4	18.5	12.5	-98.05	847.8	705.8	902.7	871.8	30.82	29.285	
7,200.0	7,152.8	7,193.3	7,192.2	18.7	12.7	-98.93	847.4	703.9	904.3	873.0	31.25	28.937	
7,300.0	7,251.8	7,292.2	7,291.0	19.0	12.9	-99.81	846.7	700.7	899.3	867.6	31.69	28.379	
7,400.0	7,348.3	7,455.1	7,453.6	19.3	13.1	-99.43	840.1	694.9	874.7	842.6	32.17	27.191	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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		
7,500.0	7,439.5	7,547.5	7,545.7	19.5	13.3	-24.59	831.6	695.7	829.0	796.4	32.62	25.417		
7,600.0	7,522.5	7,600.0	7,598.0	19.8	13.4	-23.57	828.1	697.3	771.0	737.9	33.09	23.298		
7,700.0	7,594.8	7,661.1	7,659.0	20.2	13.5	-25.78	825.5	699.3	701.9	668.3	33.58	20.902		
7,800.0	7,654.3	7,708.6	7,706.5	20.6	13.5	-31.38	824.3	700.2	623.5	589.4	34.10	18.283		
7,900.0	7,699.1	7,750.1	7,747.9	21.1	13.6	-43.15	823.6	701.0	537.4	502.7	34.67	15.499		
8,000.0	7,727.9	7,776.5	7,774.4	21.8	13.7	-63.75	823.2	701.5	446.5	411.2	35.33	12.641		
8,100.0	7,739.7	7,786.8	7,784.7	22.6	13.7	-88.69	823.1	701.7	354.6	318.5	36.10	9.824		
8,200.0	7,740.0	7,785.9	7,783.8	23.4	13.7	-92.27	823.1	701.7	266.9	229.8	37.02	7.209		
8,300.0	7,740.0	7,784.7	7,782.6	24.4	13.7	-91.79	823.1	701.7	191.4	153.7	37.70	5.077		
8,400.0	7,740.0	7,783.5	7,781.3	25.4	13.7	-91.30	823.1	701.6	148.6	113.0	35.58	4.176 SF		
8,422.9	7,740.0	7,783.2	7,781.0	25.7	13.7	-91.19	823.1	701.6	146.8	112.5	34.34	4.275 CC, ES		
8,500.0	7,740.0	7,782.2	7,780.1	26.5	13.7	-90.80	823.1	701.6	165.8	135.8	30.05	5.519		
8,600.0	7,740.0	7,780.9	7,778.8	27.7	13.7	-90.30	823.1	701.6	230.0	201.5	28.58	8.049		
8,700.0	7,740.0	7,779.6	7,777.4	28.9	13.7	-89.78	823.1	701.6	313.6	284.3	29.31	10.699		
8,800.0	7,740.0	7,778.2	7,776.1	30.2	13.7	-89.26	823.2	701.5	404.7	374.5	30.16	13.416		
8,900.0	7,740.0	7,776.8	7,774.7	31.6	13.7	-88.72	823.2	701.5	499.2	468.3	30.85	16.182		
9,000.0	7,740.0	7,775.4	7,773.3	32.9	13.7	-88.17	823.2	701.5	595.5	564.1	31.38	18.974		
9,100.0	7,740.0	7,774.0	7,771.9	34.4	13.7	-87.61	823.2	701.4	692.8	661.0	31.82	21.776		
9,200.0	7,740.0	7,772.5	7,770.4	35.8	13.7	-87.05	823.2	701.4	790.8	758.6	32.18	24.578		
9,300.0	7,740.0	7,771.1	7,768.9	37.3	13.7	-86.47	823.3	701.4	889.3	856.8	32.48	27.374		
9,400.0	7,740.0	7,769.5	7,767.4	38.8	13.6	-85.88	823.3	701.4	988.0	955.3	32.76	30.161		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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)			
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-29.9	29.9	29.6	0.30	98.612	
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-29.9	29.9	29.3	0.65	45.878 CC, ES	
300.0	300.0	299.5	299.5	0.5	0.5	-90.81	-0.4	-30.7	30.7	29.7	1.00	30.667	
400.0	400.0	399.0	399.0	0.7	0.7	-93.00	-1.7	-32.9	33.0	31.7	1.35	24.444	
500.0	500.0	498.3	498.2	0.9	0.9	170.29	-3.9	-36.7	37.8	36.1	1.70	22.232 SF	
600.0	600.0	597.3	597.0	1.0	1.1	167.74	-6.9	-41.9	45.9	43.9	2.05	22.425	
700.0	699.9	696.9	696.4	1.2	1.3	166.86	-9.5	-47.8	56.5	54.1	2.40	23.565	
800.0	799.7	796.3	795.6	1.4	1.5	167.62	-10.9	-53.7	68.5	65.7	2.75	24.928	
900.0	899.4	895.3	894.4	1.6	1.7	168.44	-12.3	-59.5	82.1	79.0	3.09	26.531	
1,000.0	998.9	994.1	993.1	1.8	1.9	169.21	-13.6	-65.3	97.5	94.0	3.44	28.307	
1,100.0	1,098.3	1,092.7	1,091.4	2.1	2.1	169.92	-14.9	-71.1	114.5	110.8	3.79	30.208	
1,200.0	1,197.5	1,191.0	1,189.6	2.3	2.3	170.53	-16.3	-76.9	132.5	128.3	4.14	32.001	
1,300.0	1,296.8	1,289.4	1,287.8	2.6	2.5	171.00	-17.6	-82.7	150.4	145.9	4.49	33.520	
1,400.0	1,396.0	1,387.8	1,386.0	2.8	2.7	171.37	-18.9	-88.4	168.4	163.5	4.83	34.822	
1,500.0	1,495.3	1,486.1	1,484.2	3.1	2.9	171.66	-20.2	-94.2	186.3	181.1	5.18	35.951	
1,600.0	1,594.5	1,584.5	1,582.4	3.4	3.1	171.91	-21.6	-100.0	204.3	198.7	5.53	36.940	
1,700.0	1,693.8	1,682.9	1,680.6	3.6	3.3	172.11	-22.9	-105.8	222.2	216.4	5.88	37.812	
1,800.0	1,793.0	1,781.3	1,778.7	3.9	3.4	172.28	-24.2	-111.6	240.2	234.0	6.22	38.588	
1,900.0	1,892.3	1,879.6	1,876.9	4.2	3.6	172.43	-25.5	-117.3	258.2	251.6	6.57	39.282	
2,000.0	1,991.6	1,978.0	1,975.1	4.4	3.8	172.56	-26.9	-123.1	276.1	269.2	6.92	39.907	
2,100.0	2,090.8	2,076.4	2,073.3	4.7	4.0	172.68	-28.2	-128.9	294.1	286.8	7.27	40.472	
2,200.0	2,190.1	2,174.7	2,171.5	5.0	4.2	172.78	-29.5	-134.7	312.1	304.5	7.61	40.986	
2,300.0	2,289.3	2,273.1	2,269.7	5.3	4.4	172.87	-30.8	-140.5	330.0	322.1	7.96	41.456	
2,400.0	2,388.6	2,371.5	2,367.9	5.5	4.7	172.95	-32.2	-146.3	348.0	339.7	8.31	41.886	
2,500.0	2,487.8	2,469.8	2,466.1	5.8	4.9	173.02	-33.5	-152.0	366.0	357.3	8.66	42.282	
2,600.0	2,587.1	2,568.2	2,564.3	6.1	5.1	173.09	-34.8	-157.8	384.0	375.0	9.00	42.647	
2,700.0	2,686.3	2,666.6	2,662.5	6.4	5.3	173.15	-36.2	-163.6	401.9	392.6	9.35	42.986	
2,800.0	2,785.6	2,765.0	2,760.7	6.6	5.5	173.20	-37.5	-169.4	419.9	410.2	9.70	43.300	
2,900.0	2,884.8	2,863.3	2,858.9	6.9	5.7	173.26	-38.8	-175.2	437.9	427.8	10.04	43.593	
3,000.0	2,984.1	2,961.7	2,957.0	7.2	5.9	173.30	-40.1	-181.0	455.9	445.5	10.39	43.866	
3,100.0	3,083.4	3,060.1	3,055.2	7.4	6.1	173.34	-41.5	-186.7	473.8	463.1	10.74	44.121	
3,200.0	3,182.6	3,158.4	3,153.4	7.7	6.3	173.38	-42.8	-192.5	491.8	480.7	11.09	44.361	
3,300.0	3,281.9	3,256.8	3,251.6	8.0	6.5	173.42	-44.1	-198.3	509.8	498.3	11.43	44.586	
3,400.0	3,381.1	3,355.2	3,349.8	8.3	6.7	173.46	-45.4	-204.1	527.8	516.0	11.78	44.798	
3,500.0	3,480.4	3,453.6	3,448.0	8.5	6.9	173.49	-46.8	-209.9	545.7	533.6	12.13	44.998	
3,600.0	3,579.6	3,551.9	3,546.2	8.8	7.1	173.52	-48.1	-215.6	563.7	551.2	12.48	45.186	
3,700.0	3,678.9	3,650.3	3,644.4	9.1	7.3	173.55	-49.4	-221.4	581.7	568.9	12.82	45.365	
3,800.0	3,778.1	3,748.7	3,742.6	9.4	7.5	173.57	-50.7	-227.2	599.7	586.5	13.17	45.534	
3,900.0	3,877.4	3,847.0	3,840.8	9.6	7.7	173.60	-52.1	-233.0	617.6	604.1	13.52	45.694	
4,000.0	3,976.7	3,945.4	3,939.0	9.9	7.9	173.62	-53.4	-238.8	635.6	621.7	13.86	45.847	
4,100.0	4,075.9	4,043.8	4,037.2	10.2	8.1	173.64	-54.7	-244.6	653.6	639.4	14.21	45.991	
4,200.0	4,175.2	4,142.2	4,135.3	10.5	8.3	173.67	-56.0	-250.3	671.6	657.0	14.56	46.130	
4,300.0	4,274.4	4,240.5	4,233.5	10.7	8.5	173.69	-57.4	-256.1	689.5	674.6	14.91	46.261	
4,400.0	4,373.7	4,338.9	4,331.7	11.0	8.7	173.70	-58.7	-261.9	707.5	692.3	15.25	46.387	
4,500.0	4,472.9	4,437.3	4,429.9	11.3	8.9	173.72	-60.0	-267.7	725.5	709.9	15.60	46.507	
4,600.0	4,572.2	4,535.6	4,528.1	11.6	9.1	173.74	-61.3	-273.5	743.5	727.5	15.95	46.622	
4,700.0	4,671.4	4,634.0	4,626.3	11.8	9.3	173.76	-62.7	-279.2	761.4	745.1	16.29	46.732	
4,800.0	4,770.7	4,732.4	4,724.5	12.1	9.5	173.77	-64.0	-285.0	779.4	762.8	16.64	46.837	
4,900.0	4,869.9	4,830.7	4,822.7	12.4	9.7	173.79	-65.3	-290.8	797.4	780.4	16.99	46.938	
5,000.0	4,969.2	4,929.1	4,920.9	12.7	9.9	173.80	-66.7	-296.6	815.4	798.0	17.34	47.035	
5,100.0	5,068.5	5,027.5	5,019.1	12.9	10.1	173.81	-68.0	-302.4	833.3	815.7	17.68	47.128	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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						
5,200.0	5,167.7	5,125.9	5,117.3	13.2	10.3	173.83	-69.3	-308.2	851.3	833.3	18.03	47.218						
5,300.0	5,267.0	5,224.2	5,215.5	13.5	10.5	173.84	-70.6	-313.9	869.3	850.9	18.38	47.304						
5,400.0	5,366.2	5,322.6	5,313.6	13.8	10.7	173.85	-72.0	-319.7	887.3	868.5	18.72	47.387						
5,500.0	5,465.5	5,421.0	5,411.8	14.0	10.9	173.86	-73.3	-325.5	905.2	886.2	19.07	47.467						
5,600.0	5,564.7	5,519.3	5,510.0	14.3	11.1	173.88	-74.6	-331.3	923.2	903.8	19.42	47.545						
5,700.0	5,664.0	5,617.7	5,608.2	14.6	11.3	173.89	-75.9	-337.1	941.2	921.4	19.77	47.619						
5,800.0	5,763.2	5,716.1	5,706.4	14.9	11.5	173.90	-77.3	-342.8	959.2	939.1	20.11	47.691						
5,900.0	5,862.5	5,814.5	5,804.6	15.2	11.7	173.91	-78.6	-348.6	977.1	956.7	20.46	47.761						
6,000.0	5,961.7	5,912.8	5,902.8	15.4	11.9	173.92	-79.9	-354.4	995.1	974.3	20.81	47.828						
6,100.0	6,061.0	6,011.2	6,001.0	15.7	12.1	173.92	-81.2	-360.2	1,013.1	991.9	21.15	47.893						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-22.7	22.7					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-22.7	22.7	22.4	0.30	74.650		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-22.7	22.7	22.0	0.65	34.730		
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-22.7	22.7	21.7	1.00	22.629	CC, ES	
400.0	400.0	399.7	399.7	0.7	0.7	-91.64	-0.7	-23.2	23.2	21.9	1.35	17.205		
500.0	500.0	499.4	499.3	0.9	0.9	170.35	-2.7	-24.9	25.9	24.2	1.70	15.232		
600.0	600.0	598.8	598.7	1.0	1.0	165.66	-6.0	-27.7	31.7	29.7	2.05	15.447		
700.0	699.9	699.1	698.8	1.2	1.2	162.88	-9.5	-30.4	39.2	36.8	2.41	16.305		
800.0	799.7	799.5	799.2	1.4	1.4	162.47	-12.0	-31.6	46.9	44.1	2.76	16.975		
900.0	899.4	899.8	899.5	1.6	1.6	163.42	-13.4	-31.5	54.6	51.5	3.11	17.524		
1,000.0	998.9	999.4	999.1	1.8	1.7	164.77	-14.5	-30.9	63.5	60.0	3.47	18.308		
1,100.0	1,098.3	1,098.8	1,098.5	2.1	1.9	166.10	-15.7	-30.4	74.1	70.3	3.82	19.397		
1,200.0	1,197.5	1,198.2	1,197.8	2.3	2.1	167.26	-16.8	-29.8	85.6	81.4	4.17	20.515		
1,300.0	1,296.8	1,297.5	1,297.2	2.6	2.3	168.14	-17.9	-29.3	97.1	92.6	4.52	21.468		
1,400.0	1,396.0	1,396.8	1,396.5	2.8	2.4	168.83	-19.0	-28.7	108.6	103.8	4.87	22.288		
1,500.0	1,495.3	1,496.1	1,495.8	3.1	2.6	169.39	-20.1	-28.1	120.2	115.0	5.22	23.002		
1,600.0	1,594.5	1,595.5	1,595.1	3.4	2.8	169.85	-21.2	-27.6	131.7	126.2	5.58	23.628		
1,700.0	1,693.8	1,694.8	1,694.4	3.6	3.0	170.24	-22.4	-27.0	143.3	137.4	5.93	24.182		
1,800.0	1,793.0	1,794.1	1,793.8	3.9	3.1	170.57	-23.5	-26.4	154.9	148.6	6.28	24.676		
1,900.0	1,892.3	1,893.4	1,893.1	4.2	3.3	170.85	-24.6	-25.9	166.4	159.8	6.63	25.118		
2,000.0	1,991.6	1,992.8	1,992.4	4.4	3.5	171.10	-25.7	-25.3	178.0	171.0	6.98	25.516		
2,100.0	2,090.8	2,092.1	2,091.7	4.7	3.7	171.31	-26.8	-24.8	189.6	182.3	7.33	25.877		
2,200.0	2,190.1	2,191.4	2,191.0	5.0	3.8	171.51	-27.9	-24.2	201.2	193.5	7.68	26.206		
2,300.0	2,289.3	2,290.7	2,290.3	5.3	4.0	171.68	-29.1	-23.6	212.8	204.7	8.03	26.506		
2,400.0	2,388.6	2,390.1	2,389.7	5.5	4.2	171.83	-30.2	-23.1	224.3	216.0	8.38	26.782		
2,500.0	2,487.8	2,489.4	2,489.0	5.8	4.4	171.97	-31.3	-22.5	235.9	227.2	8.73	27.036		
2,600.0	2,587.1	2,588.7	2,588.3	6.1	4.5	172.09	-32.4	-21.9	247.5	238.4	9.08	27.270		
2,700.0	2,686.3	2,688.0	2,687.6	6.4	4.7	172.21	-33.5	-21.4	259.1	249.7	9.43	27.487		
2,800.0	2,785.6	2,787.4	2,786.9	6.6	4.9	172.31	-34.6	-20.8	270.7	260.9	9.78	27.689		
2,900.0	2,884.8	2,886.7	2,886.2	6.9	5.1	172.41	-35.8	-20.3	282.3	272.1	10.13	27.877		
3,000.0	2,984.1	2,986.0	2,985.6	7.2	5.2	172.49	-36.9	-19.7	293.9	283.4	10.48	28.052		
3,100.0	3,083.4	3,085.3	3,084.9	7.4	5.4	172.58	-38.0	-19.1	305.4	294.6	10.83	28.216		
3,200.0	3,182.6	3,184.7	3,184.2	7.7	5.6	172.65	-39.1	-18.6	317.0	305.9	11.18	28.370		
3,300.0	3,281.9	3,284.0	3,283.5	8.0	5.8	172.72	-40.2	-18.0	328.6	317.1	11.52	28.515		
3,400.0	3,381.1	3,383.3	3,382.8	8.3	5.9	172.79	-41.3	-17.4	340.2	328.3	11.87	28.651		
3,500.0	3,480.4	3,482.6	3,482.1	8.5	6.1	172.85	-42.5	-16.9	351.8	339.6	12.22	28.780		
3,600.0	3,579.6	3,582.0	3,581.5	8.8	6.3	172.91	-43.6	-16.3	363.4	350.8	12.57	28.901		
3,700.0	3,678.9	3,681.3	3,680.8	9.1	6.5	172.96	-44.7	-15.8	375.0	362.1	12.92	29.016		
3,800.0	3,778.1	3,780.6	3,780.1	9.4	6.6	173.01	-45.8	-15.2	386.6	373.3	13.27	29.125		
3,900.0	3,877.4	3,879.9	3,879.4	9.6	6.8	173.06	-46.9	-14.6	398.2	384.6	13.62	29.228		
4,000.0	3,976.7	3,979.3	3,978.7	9.9	7.0	173.10	-48.0	-14.1	409.8	395.8	13.97	29.326		
4,100.0	4,075.9	4,078.6	4,078.0	10.2	7.2	173.14	-49.2	-13.5	421.4	407.1	14.32	29.420		
4,200.0	4,175.2	4,177.9	4,177.4	10.5	7.3	173.18	-50.3	-12.9	433.0	418.3	14.67	29.509		
4,300.0	4,274.4	4,277.2	4,276.7	10.7	7.5	173.22	-51.4	-12.4	444.6	429.5	15.02	29.593		
4,400.0	4,373.7	4,376.6	4,376.0	11.0	7.7	173.26	-52.5	-11.8	456.2	440.8	15.37	29.674		
4,500.0	4,472.9	4,475.9	4,475.3	11.3	7.8	173.29	-53.6	-11.3	467.8	452.0	15.72	29.752		
4,600.0	4,572.2	4,575.2	4,574.6	11.6	8.0	173.33	-54.7	-10.7	479.4	463.3	16.07	29.826		
4,700.0	4,671.4	4,674.5	4,674.0	11.8	8.2	173.36	-55.9	-10.1	490.9	474.5	16.42	29.897		
4,800.0	4,770.7	4,773.9	4,773.3	12.1	8.4	173.39	-57.0	-9.6	502.5	485.8	16.77	29.965		
4,900.0	4,869.9	4,873.2	4,872.6	12.4	8.5	173.41	-58.1	-9.0	514.1	497.0	17.12	30.030		
5,000.0	4,969.2	4,972.5	4,971.9	12.7	8.7	173.44	-59.2	-8.4	525.7	508.3	17.47	30.093		
5,100.0	5,068.5	5,071.8	5,071.2	12.9	8.9	173.47	-60.3	-7.9	537.3	519.5	17.82	30.153		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,167.7	5,171.2	5,170.5	13.2	9.1	173.49	-61.4	-7.3	548.9	530.8	18.17	30.211		
5,300.0	5,267.0	5,270.5	5,269.9	13.5	9.2	173.52	-62.6	-6.8	560.5	542.0	18.52	30.266		
5,400.0	5,366.2	5,369.8	5,369.2	13.8	9.4	173.54	-63.7	-6.2	572.1	553.2	18.87	30.320		
5,500.0	5,465.5	5,469.1	5,468.5	14.0	9.6	173.56	-64.8	-5.6	583.7	564.5	19.22	30.372		
5,600.0	5,564.7	5,568.5	5,567.8	14.3	9.8	173.58	-65.9	-5.1	595.3	575.7	19.57	30.421		
5,700.0	5,664.0	5,667.8	5,667.1	14.6	9.9	173.60	-67.0	-4.5	606.9	587.0	19.92	30.469		
5,800.0	5,763.2	5,767.1	5,766.4	14.9	10.1	173.62	-68.1	-3.9	618.5	598.2	20.27	30.516		
5,900.0	5,862.5	5,866.4	5,865.8	15.2	10.3	173.64	-69.3	-3.4	630.1	609.5	20.62	30.561		
6,000.0	5,961.7	5,965.8	5,965.1	15.4	10.5	173.66	-70.4	-2.8	641.7	620.7	20.97	30.604		
6,100.0	6,061.0	6,065.1	6,064.4	15.7	10.6	173.68	-71.5	-2.3	653.3	632.0	21.32	30.646		
6,200.0	6,160.3	6,164.4	6,163.7	16.0	10.8	173.69	-72.6	-1.7	664.9	643.2	21.67	30.687		
6,300.0	6,259.5	6,263.7	6,263.0	16.3	11.0	173.71	-73.7	-1.1	676.5	654.5	22.02	30.726		
6,400.0	6,358.8	6,363.1	6,362.3	16.5	11.2	173.72	-74.8	-0.6	688.1	665.7	22.37	30.764		
6,500.0	6,458.0	6,462.4	6,461.7	16.8	11.3	173.74	-76.0	0.0	699.7	677.0	22.72	30.801		
6,600.0	6,557.3	6,561.7	6,561.0	17.1	11.5	173.75	-77.1	0.6	711.3	688.2	23.07	30.837		
6,700.0	6,656.5	6,661.0	6,660.3	17.4	11.7	173.77	-78.2	1.1	722.9	699.5	23.42	30.872		
6,800.0	6,755.8	6,760.4	6,759.6	17.6	11.9	173.78	-79.3	1.7	734.5	710.7	23.77	30.905		
6,900.0	6,855.0	6,859.7	6,858.9	17.9	12.0	173.80	-80.4	2.2	746.1	721.9	24.11	30.938		
7,000.0	6,954.3	6,960.1	6,959.3	18.2	12.2	173.91	-80.2	2.8	757.6	733.2	24.46	30.976		
7,100.0	7,053.6	7,059.7	7,057.8	18.5	12.4	175.07	-66.0	3.1	769.1	744.3	24.74	31.080		
7,200.0	7,152.8	7,151.6	7,145.2	18.7	12.5	177.21	-38.0	3.1	781.3	756.3	24.99	31.264		
7,300.0	7,251.8	7,235.3	7,220.0	19.0	12.6	-125.64	-0.6	2.8	795.4	770.2	25.24	31.511		
7,400.0	7,348.3	7,315.2	7,285.6	19.3	12.8	-102.65	44.9	2.4	810.9	785.4	25.56	31.725		
7,500.0	7,439.5	7,392.3	7,342.3	19.5	13.0	-92.44	97.0	1.8	826.8	800.8	25.98	31.826		
7,600.0	7,522.5	7,467.2	7,390.2	19.8	13.4	-86.19	154.5	1.0	842.2	815.6	26.53	31.738		
7,700.0	7,594.8	7,540.4	7,429.4	20.2	13.8	-81.83	216.3	0.2	856.3	829.0	27.25	31.427		
7,800.0	7,654.3	7,612.4	7,460.0	20.6	14.3	-78.68	281.4	-0.8	868.4	840.3	28.13	30.866		
7,900.0	7,699.1	7,683.5	7,481.9	21.1	14.9	-76.46	349.0	-1.9	878.1	848.9	29.21	30.066		
8,000.0	7,727.9	7,750.0	7,494.7	21.8	15.5	-75.06	414.2	-2.9	884.9	854.5	30.37	29.134		
8,100.0	7,739.7	7,827.8	7,500.0	22.6	16.3	-74.37	491.8	-4.2	888.4	856.5	31.94	27.819		
8,200.0	7,740.0	7,922.6	7,500.0	23.4	17.4	-74.34	586.6	-5.9	889.4	855.3	34.05	26.116		
8,300.0	7,740.0	8,022.6	7,500.0	24.4	18.7	-74.36	686.5	-7.6	890.2	853.7	36.45	24.422		
8,400.0	7,740.0	8,122.6	7,500.0	25.4	20.0	-74.37	786.5	-9.4	891.0	852.0	38.99	22.850		
8,500.0	7,740.0	8,222.6	7,500.0	26.5	21.4	-74.39	886.5	-11.1	891.9	850.2	41.66	21.410		
8,600.0	7,740.0	8,322.6	7,500.0	27.7	22.8	-74.40	986.5	-12.9	892.7	848.3	44.42	20.097		
8,700.0	7,740.0	8,422.6	7,500.0	28.9	24.3	-74.42	1,086.5	-14.6	893.6	846.3	47.26	18.906		
8,800.0	7,740.0	8,522.6	7,500.0	30.2	25.8	-74.43	1,186.5	-16.4	894.4	844.2	50.17	17.826		
8,900.0	7,740.0	8,622.6	7,500.0	31.6	27.4	-74.45	1,286.4	-18.1	895.2	842.1	53.14	16.847		
9,000.0	7,740.0	8,722.6	7,500.0	32.9	28.9	-74.46	1,386.4	-19.9	896.1	839.9	56.16	15.957		
9,100.0	7,740.0	8,822.6	7,500.0	34.4	30.5	-74.48	1,486.4	-21.6	896.9	837.7	59.21	15.148		
9,200.0	7,740.0	8,922.6	7,500.0	35.8	32.1	-74.49	1,586.4	-23.3	897.8	835.5	62.30	14.410		
9,300.0	7,740.0	9,022.6	7,500.0	37.3	33.7	-74.51	1,686.4	-25.1	898.6	833.2	65.42	13.736		
9,400.0	7,740.0	9,122.6	7,500.0	38.8	35.4	-74.52	1,786.3	-26.8	899.4	830.9	68.56	13.118		
9,500.0	7,740.0	9,210.1	7,500.0	40.3	36.8	-74.55	1,873.8	-29.0	900.9	829.6	71.33	12.631		
9,600.0	7,740.0	9,300.0	7,500.0	41.8	38.3	-74.59	1,963.7	-32.5	903.9	829.7	74.19	12.184		
9,700.0	7,740.0	9,383.6	7,500.0	43.3	39.7	-74.66	2,047.1	-37.1	908.3	831.5	76.84	11.821		
9,800.0	7,740.0	9,476.6	7,500.0	44.9	41.2	-74.75	2,139.9	-43.4	914.0	834.2	79.84	11.449		
9,900.0	7,740.0	9,576.4	7,500.0	46.5	42.9	-74.85	2,239.5	-50.4	919.9	836.8	83.09	11.071		
10,000.0	7,740.0	9,676.2	7,500.0	48.1	44.6	-74.95	2,339.1	-57.3	925.8	839.4	86.36	10.720		
10,100.0	7,740.0	9,776.1	7,500.0	49.7	46.3	-75.05	2,438.6	-64.3	931.7	842.0	89.65	10.393		
10,200.0	7,740.0	9,875.9	7,500.0	51.3	47.9	-75.14	2,538.2	-71.3	937.6	844.7	92.94	10.088		
10,300.0	7,740.0	9,975.7	7,500.0	52.9	49.6	-75.24	2,637.8	-78.2	943.5	847.2	96.25	9.802		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,400.0	7,740.0	10,075.5	7,500.0	54.5	51.3	-75.33	2,737.4	-85.2	949.4	849.8	99.57	9.535	
10,500.0	7,740.0	10,175.3	7,500.0	56.2	53.0	-75.42	2,836.9	-92.2	955.3	852.4	102.90	9.284	
10,600.0	7,740.0	10,275.1	7,500.0	57.8	54.7	-75.52	2,936.5	-99.1	961.2	855.0	106.23	9.048	
10,700.0	7,740.0	10,374.9	7,500.0	59.5	56.4	-75.61	3,036.1	-106.1	967.1	857.6	109.58	8.826	
10,800.0	7,740.0	10,474.7	7,500.0	61.1	58.1	-75.70	3,135.6	-113.0	973.1	860.1	112.93	8.616	
10,900.0	7,740.0	10,574.6	7,500.0	62.8	59.9	-75.78	3,235.2	-120.0	979.0	862.7	116.29	8.418	
11,000.0	7,740.0	10,683.7	7,500.0	64.4	61.7	-75.87	3,344.1	-127.3	984.7	864.7	119.99	8.206	
11,100.0	7,740.0	10,803.6	7,500.0	66.1	63.8	-75.94	3,463.9	-133.3	988.6	864.6	124.06	7.969	
11,200.0	7,740.0	10,923.7	7,500.0	67.8	65.9	-75.98	3,583.9	-136.7	990.6	862.5	128.06	7.735	
11,300.0	7,740.0	11,040.4	7,500.0	69.5	67.9	-75.98	3,700.6	-137.7	990.5	858.6	131.91	7.509	
11,400.0	7,740.0	11,140.4	7,500.0	71.1	69.6	-75.97	3,800.6	-137.8	989.7	854.5	135.25	7.318	
11,443.9	7,740.0	11,184.3	7,500.0	71.9	70.3	-75.96	3,844.5	-137.8	989.6	852.8	136.72	7.238	
11,500.0	7,740.0	11,240.4	7,500.0	72.8	71.3	-75.97	3,900.6	-137.9	989.8	851.2	138.59	7.142	
11,600.0	7,740.0	11,340.4	7,500.0	74.5	73.0	-75.99	4,000.6	-137.9	991.6	849.7	141.96	6.985	
11,700.0	7,740.0	11,440.4	7,500.0	76.2	74.8	-76.02	4,100.6	-138.0	994.0	848.7	145.33	6.840	
11,800.0	7,740.0	11,540.3	7,500.0	77.9	76.5	-76.06	4,200.5	-138.1	996.5	847.8	148.71	6.701	
11,900.0	7,740.0	11,640.3	7,500.0	79.7	78.2	-76.09	4,300.5	-138.2	998.9	846.8	152.09	6.568	
12,000.0	7,740.0	11,740.3	7,500.0	81.4	79.9	-76.13	4,400.5	-138.3	1,001.4	845.9	155.47	6.441	
12,100.0	7,740.0	11,840.2	7,500.0	83.1	81.7	-76.16	4,500.4	-138.3	1,003.8	845.0	158.85	6.319	
12,200.0	7,740.0	11,940.2	7,500.0	84.8	83.4	-76.20	4,600.4	-138.4	1,006.2	844.0	162.24	6.202	
12,300.0	7,740.0	12,040.2	7,500.0	86.5	85.1	-76.23	4,700.4	-138.5	1,008.7	843.1	165.63	6.090	
12,400.0	7,740.0	12,140.1	7,500.0	88.2	86.9	-76.27	4,800.3	-138.6	1,011.1	842.1	169.02	5.982	
12,500.0	7,740.0	12,240.1	7,500.0	89.9	88.6	-76.30	4,900.3	-138.7	1,013.6	841.2	172.41	5.879	
12,600.0	7,740.0	12,340.1	7,500.0	91.6	90.3	-76.33	5,000.3	-138.8	1,016.0	840.2	175.81	5.779	
12,700.0	7,740.0	12,440.0	7,500.0	93.4	92.1	-76.37	5,100.2	-138.8	1,018.5	839.2	179.21	5.683	
12,800.0	7,740.0	12,540.0	7,500.0	95.1	93.8	-76.40	5,200.2	-138.9	1,020.9	838.3	182.61	5.591	
12,900.0	7,740.0	12,640.0	7,500.0	96.8	95.6	-76.43	5,300.2	-139.0	1,023.3	837.3	186.01	5.501	
13,000.0	7,740.0	12,740.0	7,500.0	98.5	97.3	-76.47	5,400.1	-139.1	1,025.8	836.4	189.42	5.415	
13,100.0	7,740.0	12,839.9	7,500.0	100.3	99.0	-76.50	5,500.1	-139.2	1,028.2	835.4	192.83	5.332	
13,200.0	7,740.0	12,939.9	7,500.0	102.0	100.8	-76.53	5,600.1	-139.2	1,030.7	834.4	196.23	5.252	
13,300.0	7,740.0	13,039.9	7,500.0	103.7	102.5	-76.56	5,700.0	-139.3	1,033.1	833.5	199.64	5.175	
13,400.0	7,740.0	13,139.8	7,500.0	105.4	104.2	-76.60	5,800.0	-139.4	1,035.6	832.5	203.06	5.100	
13,500.0	7,740.0	13,239.8	7,500.0	107.2	106.0	-76.63	5,900.0	-139.5	1,038.0	831.5	206.47	5.027	
13,600.0	7,740.0	13,339.8	7,500.0	108.9	107.7	-76.66	6,000.0	-139.6	1,040.5	830.6	209.88	4.957	
13,700.0	7,740.0	13,439.7	7,500.0	110.6	109.5	-76.69	6,099.9	-139.7	1,042.9	829.6	213.30	4.889	
13,800.0	7,740.0	13,539.7	7,500.0	112.4	111.2	-76.72	6,199.9	-139.7	1,045.3	828.6	216.72	4.824	
13,900.0	7,740.0	13,639.7	7,500.0	114.1	112.9	-76.75	6,299.9	-139.8	1,047.8	827.7	220.14	4.760	
14,000.0	7,740.0	13,739.6	7,500.0	115.8	114.7	-76.79	6,399.8	-139.9	1,050.2	826.7	223.56	4.698	
14,100.0	7,740.0	13,839.6	7,500.0	117.6	116.4	-76.82	6,499.8	-140.0	1,052.7	825.7	226.98	4.638	
14,200.0	7,740.0	13,939.6	7,500.0	119.3	118.2	-76.85	6,599.8	-140.1	1,055.1	824.7	230.40	4.580	
14,300.0	7,740.0	14,039.5	7,500.0	121.0	119.9	-76.88	6,699.7	-140.1	1,057.6	823.8	233.83	4.523	
14,400.0	7,740.0	14,139.5	7,500.0	122.8	121.7	-76.91	6,799.7	-140.2	1,060.0	822.8	237.25	4.468	
14,500.0	7,740.0	14,239.5	7,500.0	124.5	123.4	-76.94	6,899.7	-140.3	1,062.5	821.8	240.68	4.414	
14,600.0	7,740.0	14,339.4	7,500.0	126.2	125.1	-76.97	6,999.6	-140.4	1,064.9	820.8	244.11	4.362	
14,699.3	7,740.0	14,422.5	7,500.0	128.0	126.6	-77.00	7,082.7	-140.5	1,067.5	820.5	247.00	4.322 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	-90.03	0.0	-15.1	15.1				
100.0	100.0	100.0	100.0	0.2	0.2	-90.03	0.0	-15.1	15.1	14.8	0.30	49.767	
200.0	200.0	200.0	200.0	0.3	0.3	-90.03	0.0	-15.1	15.1	14.5	0.65	23.153	
300.0	300.0	300.0	300.0	0.5	0.5	-90.03	0.0	-15.1	15.1	14.1	1.00	15.086	
400.0	400.0	400.0	400.0	0.7	0.7	-90.03	0.0	-15.1	15.1	13.8	1.35	11.188 CC, ES	
500.0	500.0	500.0	500.0	0.9	0.8	176.29	0.0	-15.1	16.0	14.3	1.70	9.403	
600.0	600.0	600.0	600.0	1.0	1.0	176.81	0.0	-15.1	18.6	16.5	2.05	9.076	
700.0	699.9	700.3	700.2	1.2	1.2	177.22	-0.1	-14.2	22.1	19.7	2.40	9.207	
800.0	799.7	800.6	800.6	1.4	1.4	177.35	-0.4	-11.6	25.6	22.8	2.75	9.306	
900.0	899.4	901.0	900.9	1.6	1.6	177.30	-0.9	-7.3	29.1	26.0	3.10	9.382	
1,000.0	998.9	1,001.0	1,000.7	1.8	1.7	177.22	-1.5	-1.8	33.2	29.7	3.45	9.622	
1,100.0	1,098.3	1,100.8	1,100.4	2.1	1.9	177.29	-2.1	3.7	39.0	35.2	3.80	10.271	
1,200.0	1,197.5	1,200.6	1,200.0	2.3	2.1	177.39	-2.7	9.2	45.7	41.5	4.15	11.020	
1,300.0	1,296.8	1,300.4	1,299.7	2.6	2.3	177.47	-3.3	14.6	52.4	47.9	4.49	11.653	
1,400.0	1,396.0	1,400.2	1,399.3	2.8	2.5	177.53	-3.9	20.1	59.1	54.2	4.84	12.195	
1,500.0	1,495.3	1,499.9	1,498.9	3.1	2.7	177.57	-4.5	25.6	65.8	60.6	5.19	12.664	
1,600.0	1,594.5	1,599.7	1,598.5	3.4	2.9	177.61	-5.1	31.1	72.5	66.9	5.54	13.074	
1,700.0	1,693.8	1,699.5	1,698.1	3.6	3.1	177.64	-5.7	36.5	79.2	73.3	5.89	13.436	
1,800.0	1,793.0	1,799.3	1,797.8	3.9	3.3	177.67	-6.3	42.0	85.9	79.6	6.24	13.757	
1,900.0	1,892.3	1,899.1	1,897.4	4.2	3.5	177.69	-7.0	47.5	92.6	86.0	6.59	14.044	
2,000.0	1,991.6	1,998.8	1,997.0	4.4	3.7	177.71	-7.6	53.0	99.2	92.3	6.94	14.302	
2,100.0	2,090.8	2,098.6	2,096.6	4.7	3.9	177.73	-8.2	58.4	105.9	98.7	7.29	14.535	
2,200.0	2,190.1	2,198.4	2,196.3	5.0	4.1	177.75	-8.8	63.9	112.6	105.0	7.64	14.747	
2,300.0	2,289.3	2,298.2	2,295.9	5.3	4.3	177.76	-9.4	69.4	119.3	111.3	7.99	14.941	
2,400.0	2,388.6	2,397.9	2,395.5	5.5	4.5	177.77	-10.0	74.9	126.0	117.7	8.34	15.118	
2,500.0	2,487.8	2,497.7	2,495.1	5.8	4.7	177.78	-10.6	80.3	132.7	124.0	8.69	15.281	
2,600.0	2,587.1	2,597.5	2,594.8	6.1	4.9	177.79	-11.2	85.8	139.4	130.4	9.03	15.432	
2,700.0	2,686.3	2,697.3	2,694.4	6.4	5.1	177.80	-11.8	91.3	146.1	136.7	9.38	15.571	
2,800.0	2,785.6	2,797.0	2,794.0	6.6	5.3	177.81	-12.4	96.8	152.8	143.1	9.73	15.700	
2,900.0	2,884.8	2,896.8	2,893.6	6.9	5.5	177.82	-13.0	102.2	159.5	149.4	10.08	15.821	
3,000.0	2,984.1	2,996.6	2,993.2	7.2	5.7	177.82	-13.6	107.7	166.2	155.8	10.43	15.933	
3,100.0	3,083.4	3,096.4	3,092.9	7.4	5.9	177.83	-14.2	113.2	172.9	162.1	10.78	16.038	
3,200.0	3,182.6	3,196.1	3,192.5	7.7	6.1	177.84	-14.8	118.7	179.6	168.5	11.13	16.137	
3,300.0	3,281.9	3,295.9	3,292.1	8.0	6.2	177.84	-15.5	124.1	186.3	174.8	11.48	16.229	
3,400.0	3,381.1	3,395.7	3,391.7	8.3	6.4	177.85	-16.1	129.6	193.0	181.2	11.83	16.316	
3,500.0	3,480.4	3,495.5	3,491.4	8.5	6.6	177.85	-16.7	135.1	199.7	187.5	12.18	16.398	
3,600.0	3,579.6	3,595.2	3,591.0	8.8	6.8	177.86	-17.3	140.6	206.4	193.8	12.53	16.476	
3,700.0	3,678.9	3,695.0	3,690.6	9.1	7.0	177.86	-17.9	146.0	213.1	200.2	12.88	16.549	
3,800.0	3,778.1	3,794.8	3,790.2	9.4	7.2	177.86	-18.5	151.5	219.8	206.5	13.22	16.618	
3,900.0	3,877.4	3,894.6	3,889.9	9.6	7.4	177.87	-19.1	157.0	226.5	212.9	13.57	16.684	
4,000.0	3,976.7	3,994.3	3,989.5	9.9	7.6	177.87	-19.7	162.5	233.2	219.2	13.92	16.747	
4,100.0	4,075.9	4,094.1	4,089.1	10.2	7.8	177.87	-20.3	167.9	239.9	225.6	14.27	16.806	
4,200.0	4,175.2	4,193.9	4,188.7	10.5	8.0	177.88	-20.9	173.4	246.5	231.9	14.62	16.863	
4,300.0	4,274.4	4,293.7	4,288.4	10.7	8.2	177.88	-21.5	178.9	253.2	238.3	14.97	16.917	
4,400.0	4,373.7	4,393.4	4,388.0	11.0	8.4	177.88	-22.1	184.4	259.9	244.6	15.32	16.968	
4,500.0	4,472.9	4,493.2	4,487.6	11.3	8.6	177.88	-22.7	189.8	266.6	251.0	15.67	17.017	
4,600.0	4,572.2	4,593.0	4,587.2	11.6	8.8	177.89	-23.3	195.3	273.3	257.3	16.02	17.064	
4,700.0	4,671.4	4,692.8	4,686.8	11.8	9.0	177.89	-24.0	200.8	280.0	263.7	16.37	17.110	
4,800.0	4,770.7	4,792.5	4,786.5	12.1	9.2	177.89	-24.6	206.3	286.7	270.0	16.72	17.153	
4,900.0	4,869.9	4,892.3	4,886.1	12.4	9.4	177.89	-25.2	211.7	293.4	276.4	17.06	17.194	
5,000.0	4,969.2	4,992.1	4,985.7	12.7	9.6	177.90	-25.8	217.2	300.1	282.7	17.41	17.234	
5,100.0	5,068.5	5,091.9	5,085.3	12.9	9.8	177.90	-26.4	222.7	306.8	289.0	17.76	17.272	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	5,167.7	5,191.6	5,185.0	13.2	10.0	177.90	-27.0	228.2	313.5	295.4	18.11	17.309	
5,300.0	5,267.0	5,291.4	5,284.6	13.5	10.2	177.90	-27.6	233.6	320.2	301.7	18.46	17.344	
5,400.0	5,366.2	5,391.2	5,384.2	13.8	10.4	177.90	-28.2	239.1	326.9	308.1	18.81	17.378	
5,500.0	5,465.5	5,491.0	5,483.8	14.0	10.6	177.91	-28.8	244.6	333.6	314.4	19.16	17.411	
5,600.0	5,564.7	5,590.7	5,583.5	14.3	10.8	177.91	-29.4	250.1	340.3	320.8	19.51	17.443	
5,700.0	5,664.0	5,690.5	5,683.1	14.6	11.0	177.91	-30.0	255.5	347.0	327.1	19.86	17.473	
5,800.0	5,763.2	5,790.3	5,782.7	14.9	11.2	177.91	-30.6	261.0	353.7	333.5	20.21	17.503	
5,900.0	5,862.5	5,890.1	5,882.3	15.2	11.4	177.91	-31.2	266.5	360.4	339.8	20.56	17.531	
6,000.0	5,961.7	5,989.8	5,982.0	15.4	11.6	177.91	-31.8	272.0	367.1	346.2	20.91	17.559	
6,100.0	6,061.0	6,089.6	6,081.6	15.7	11.8	177.91	-32.5	277.4	373.8	352.5	21.25	17.585	
6,200.0	6,160.3	6,189.4	6,181.2	16.0	12.0	177.92	-33.1	282.9	380.5	358.9	21.60	17.611	
6,300.0	6,259.5	6,289.2	6,280.8	16.3	12.2	177.92	-33.7	288.4	387.2	365.2	21.95	17.636	
6,400.0	6,358.8	6,389.0	6,380.4	16.5	12.4	177.92	-34.3	293.9	393.9	371.6	22.30	17.660	
6,500.0	6,458.0	6,488.7	6,480.1	16.8	12.6	177.92	-34.9	299.3	400.5	377.9	22.65	17.683	
6,600.0	6,557.3	6,588.5	6,579.7	17.1	12.8	177.92	-35.5	304.8	407.2	384.2	23.00	17.706	
6,700.0	6,656.5	6,688.3	6,679.3	17.4	13.0	177.92	-36.1	310.3	413.9	390.6	23.35	17.728	
6,800.0	6,755.8	6,788.1	6,778.9	17.6	13.2	177.92	-36.7	315.8	420.6	396.9	23.70	17.749	
6,900.0	6,855.0	6,887.8	6,878.6	17.9	13.4	177.92	-37.3	321.2	427.3	403.3	24.05	17.770	
7,000.0	6,954.3	6,987.6	6,978.2	18.2	13.6	177.92	-37.9	326.7	434.0	409.6	24.40	17.790	
7,100.0	7,053.6	7,087.4	7,077.8	18.5	13.8	177.92	-38.5	332.2	440.7	416.0	24.75	17.810	
7,200.0	7,152.8	7,186.7	7,176.9	18.7	14.0	177.94	-39.0	337.6	447.4	422.3	25.09	17.831	
7,300.0	7,251.8	7,282.3	7,271.8	19.0	14.2	-127.45	-29.4	342.7	454.4	429.0	25.41	17.879	
7,400.0	7,348.3	7,377.3	7,363.3	19.3	14.3	-106.99	-4.4	347.2	461.3	435.6	25.75	17.914	
7,500.0	7,439.5	7,471.8	7,448.9	19.5	14.5	-99.14	35.1	351.3	468.0	441.8	26.16	17.886	
7,600.0	7,522.5	7,566.1	7,526.7	19.8	14.8	-95.04	88.0	354.6	474.1	447.4	26.72	17.747	
7,700.0	7,594.8	7,660.1	7,594.7	20.2	15.2	-92.58	152.8	357.2	479.7	452.2	27.48	17.457	
7,800.0	7,654.3	7,754.2	7,651.3	20.6	15.6	-91.06	227.8	359.0	484.3	455.8	28.50	16.996	
7,900.0	7,699.1	7,848.5	7,694.9	21.1	16.3	-90.19	311.3	359.9	488.0	458.2	29.81	16.369	
8,000.0	7,727.9	7,943.1	7,724.3	21.8	17.0	-89.82	401.1	360.0	490.6	459.2	31.43	15.609	
8,100.0	7,739.7	8,038.1	7,738.6	22.6	17.9	-89.89	494.9	359.1	492.1	458.8	33.32	14.767	
8,200.0	7,740.0	8,136.2	7,740.0	23.4	19.0	-90.00	592.9	357.5	492.9	457.4	35.54	13.869	
8,300.0	7,740.0	8,236.2	7,740.0	24.4	20.1	-90.00	692.9	355.7	493.8	455.8	38.00	12.995	
8,400.0	7,740.0	8,336.2	7,740.0	25.4	21.4	-90.00	792.9	354.0	494.7	454.1	40.61	12.180	
8,500.0	7,740.0	8,436.2	7,740.0	26.5	22.7	-90.00	892.9	352.2	495.5	452.2	43.36	11.430	
8,600.0	7,740.0	8,536.2	7,740.0	27.7	24.0	-90.00	992.8	350.5	496.4	450.2	46.20	10.745	
8,700.0	7,740.0	8,636.2	7,740.0	28.9	25.4	-90.00	1,092.8	348.8	497.3	448.2	49.13	10.122	
8,800.0	7,740.0	8,736.2	7,740.0	30.2	26.9	-90.00	1,192.8	347.0	498.2	446.0	52.13	9.556	
8,900.0	7,740.0	8,836.2	7,740.0	31.6	28.4	-90.00	1,292.8	345.3	499.0	443.8	55.19	9.041	
9,000.0	7,740.0	8,936.1	7,740.0	32.9	29.9	-90.00	1,392.8	343.5	499.9	441.6	58.31	8.574	
9,100.0	7,740.0	9,036.1	7,740.0	34.4	31.4	-90.00	1,492.7	341.8	500.8	439.3	61.46	8.148	
9,200.0	7,740.0	9,136.1	7,740.0	35.8	33.0	-90.00	1,592.7	340.0	501.7	437.0	64.65	7.759	
9,300.0	7,740.0	9,236.1	7,740.0	37.3	34.6	-90.00	1,692.7	338.3	502.5	434.7	67.88	7.404	
9,400.0	7,740.0	9,336.1	7,740.0	38.8	36.2	-90.00	1,792.7	336.5	503.4	432.3	71.13	7.078	
9,500.0	7,740.0	9,436.1	7,740.0	40.3	37.8	-90.00	1,892.7	334.8	504.3	429.9	74.40	6.778	
9,600.0	7,740.0	9,536.1	7,740.0	41.8	39.4	-90.00	1,992.6	333.1	505.1	427.5	77.69	6.502	
9,700.0	7,740.0	9,636.1	7,740.0	43.3	41.0	-90.00	2,092.6	331.3	506.0	425.0	81.00	6.247	
9,800.0	7,740.0	9,736.1	7,740.0	44.9	42.7	-90.00	2,192.6	329.6	506.9	422.6	84.33	6.011	
9,900.0	7,740.0	9,836.1	7,740.0	46.5	44.3	-90.00	2,292.6	327.8	507.8	420.1	87.67	5.791	
10,000.0	7,740.0	9,936.1	7,740.0	48.1	46.0	-90.00	2,392.6	326.1	508.6	417.6	91.03	5.588	
10,100.0	7,740.0	10,036.1	7,740.0	49.7	47.7	-90.00	2,492.5	324.3	509.5	415.1	94.39	5.398	
10,200.0	7,740.0	10,136.1	7,740.0	51.3	49.3	-90.00	2,592.5	322.6	510.4	412.6	97.77	5.220	
10,300.0	7,740.0	10,236.1	7,740.0	52.9	51.0	-90.00	2,692.5	320.8	511.3	410.1	101.15	5.054	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	7,740.0	10,336.1	7,740.0	54.5	52.7	-90.00	2,792.5	319.1	512.1	407.6	104.55	4.899	
10,500.0	7,740.0	10,436.1	7,740.0	56.2	54.4	-90.00	2,892.5	317.3	513.0	405.1	107.95	4.752	
10,600.0	7,740.0	10,536.1	7,740.0	57.8	56.1	-90.00	2,992.5	315.6	513.9	402.5	111.35	4.615	
10,700.0	7,740.0	10,636.1	7,740.0	59.5	57.8	-90.00	3,092.4	313.9	514.7	400.0	114.77	4.485	
10,800.0	7,740.0	10,736.1	7,740.0	61.1	59.5	-90.00	3,192.4	312.1	515.6	397.4	118.19	4.363	
10,900.0	7,740.0	10,836.1	7,740.0	62.8	61.2	-90.00	3,292.4	310.4	516.5	394.9	121.61	4.247	
11,000.0	7,740.0	10,936.1	7,740.0	64.4	62.9	-90.00	3,392.4	308.6	517.4	392.3	125.04	4.138	
11,100.0	7,740.0	11,036.1	7,740.0	66.1	64.6	-90.00	3,492.4	306.9	518.2	389.8	128.47	4.034	
11,200.0	7,740.0	11,136.1	7,740.0	67.8	66.3	-90.00	3,592.3	305.1	519.1	387.2	131.91	3.935	
11,300.0	7,740.0	11,236.1	7,740.0	69.5	68.0	-90.00	3,692.3	303.4	520.0	384.6	135.35	3.842	
11,400.0	7,740.0	11,336.1	7,740.0	71.1	69.7	-90.00	3,792.3	301.6	520.9	382.1	138.79	3.753	
11,500.0	7,740.0	11,436.0	7,740.0	72.8	71.4	-90.00	3,892.3	299.9	522.6	380.4	142.24	3.674	
11,600.0	7,740.0	11,536.0	7,740.0	74.5	73.1	-90.00	3,992.2	298.2	526.1	380.4	145.68	3.611	
11,700.0	7,740.0	11,635.9	7,740.0	76.2	74.9	-90.00	4,092.1	296.4	530.3	381.2	149.13	3.556	
11,800.0	7,740.0	11,735.8	7,740.0	77.9	76.6	-90.00	4,192.0	294.7	534.5	381.9	152.59	3.503	
11,900.0	7,740.0	11,835.7	7,740.0	79.7	78.3	-90.00	4,291.9	292.9	538.6	382.6	156.04	3.452	
12,000.0	7,740.0	11,935.6	7,740.0	81.4	80.0	-90.00	4,391.8	291.2	542.8	383.3	159.50	3.403	
12,100.0	7,740.0	12,035.5	7,740.0	83.1	81.7	-90.00	4,491.7	289.4	547.0	384.0	162.96	3.357	
12,200.0	7,740.0	12,135.5	7,740.0	84.8	83.5	-90.00	4,591.6	287.7	551.2	384.8	166.42	3.312	
12,300.0	7,740.0	12,235.4	7,740.0	86.5	85.2	-90.00	4,691.5	285.9	555.4	385.5	169.88	3.269	
12,400.0	7,740.0	12,335.3	7,740.0	88.2	86.9	-90.00	4,791.4	284.2	559.5	386.2	173.35	3.228	
12,500.0	7,740.0	12,435.2	7,740.0	89.9	88.7	-90.00	4,891.3	282.5	563.7	386.9	176.81	3.188	
12,600.0	7,740.0	12,535.1	7,740.0	91.6	90.4	-90.00	4,991.2	280.7	567.9	387.6	180.28	3.150	
12,700.0	7,740.0	12,635.0	7,740.0	93.4	92.1	-90.00	5,091.1	279.0	572.1	388.3	183.75	3.113	
12,800.0	7,740.0	12,734.9	7,740.0	95.1	93.8	-90.00	5,191.0	277.2	576.2	389.0	187.22	3.078	
12,900.0	7,740.0	12,834.8	7,740.0	96.8	95.6	-90.00	5,290.9	275.5	580.4	389.7	190.69	3.044	
13,000.0	7,740.0	12,934.8	7,740.0	98.5	97.3	-90.00	5,390.8	273.7	584.6	390.4	194.17	3.011	
13,100.0	7,740.0	13,034.7	7,740.0	100.3	99.0	-90.00	5,490.7	272.0	588.8	391.1	197.64	2.979	
13,200.0	7,740.0	13,134.6	7,740.0	102.0	100.8	-90.00	5,590.6	270.3	592.9	391.8	201.12	2.948	
13,300.0	7,740.0	13,234.5	7,740.0	103.7	102.5	-90.00	5,690.4	268.5	597.1	392.5	204.59	2.919	
13,400.0	7,740.0	13,334.4	7,740.0	105.4	104.2	-90.00	5,790.3	266.8	601.3	393.2	208.07	2.890	
13,500.0	7,740.0	13,434.3	7,740.0	107.2	106.0	-90.00	5,890.2	265.0	605.5	393.9	211.55	2.862	
13,600.0	7,740.0	13,534.2	7,740.0	108.9	107.7	-90.00	5,990.1	263.3	609.6	394.6	215.03	2.835	
13,700.0	7,740.0	13,634.1	7,740.0	110.6	109.4	-90.00	6,090.0	261.5	613.8	395.3	218.51	2.809	
13,800.0	7,740.0	13,734.1	7,740.0	112.4	111.2	-90.00	6,189.9	259.8	618.0	396.0	221.99	2.784	
13,900.0	7,740.0	13,834.0	7,740.0	114.1	112.9	-90.00	6,289.8	258.0	622.2	396.7	225.47	2.759	
14,000.0	7,740.0	13,933.9	7,740.0	115.8	114.7	-90.00	6,389.7	256.3	626.3	397.4	228.95	2.736	
14,100.0	7,740.0	14,033.8	7,740.0	117.6	116.4	-90.00	6,489.6	254.6	630.5	398.1	232.44	2.713	
14,200.0	7,740.0	14,128.1	7,740.0	119.3	118.0	-90.00	6,583.9	252.7	634.9	399.3	235.60	2.695	
14,300.0	7,740.0	14,217.9	7,740.0	121.0	119.6	-90.00	6,673.7	249.6	640.8	402.3	238.47	2.687	
14,400.0	7,740.0	14,307.6	7,740.0	122.8	121.2	-90.00	6,763.2	245.2	648.2	406.9	241.29	2.686	
14,500.0	7,740.0	14,403.6	7,740.0	124.5	122.8	-90.00	6,859.0	239.2	656.8	412.3	244.51	2.686	
14,600.0	7,740.0	14,503.2	7,740.0	126.2	124.6	-90.00	6,958.5	232.9	665.6	417.6	247.99	2.684	
14,699.3	7,740.0	14,602.2	7,740.0	128.0	126.3	-90.00	7,057.2	226.7	674.2	422.8	251.44	2.682 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.06	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.06	0.0	-7.6	7.6	7.3	0.30	24.883		
200.0	200.0	200.0	200.0	0.3	0.3	-90.06	0.0	-7.6	7.6	6.9	0.65	11.577		
300.0	300.0	300.0	300.0	0.5	0.5	-90.06	0.0	-7.6	7.6	6.6	1.00	7.543		
400.0	400.0	400.0	400.0	0.7	0.7	-90.06	0.0	-7.6	7.6	6.2	1.35	5.594 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	176.46	0.0	-7.6	8.4	6.7	1.70	4.958		
600.0	600.0	600.1	600.1	1.0	1.0	176.87	-0.1	-6.7	10.2	8.1	2.05	4.964		
700.0	699.9	700.3	700.3	1.2	1.2	176.83	-0.4	-4.1	11.9	9.5	2.40	4.970		
800.0	799.7	800.5	800.4	1.4	1.4	176.51	-0.9	0.3	13.7	10.9	2.75	4.975		
900.0	899.4	900.8	900.4	1.6	1.6	176.01	-1.5	6.4	15.4	12.3	3.10	4.980		
1,000.0	998.9	1,001.0	1,000.4	1.8	1.8	175.38	-2.4	14.2	17.2	13.7	3.44	4.985		
1,100.0	1,098.3	1,101.2	1,100.1	2.1	2.0	174.75	-3.4	23.5	19.2	15.4	3.80	5.052		
1,200.0	1,197.5	1,201.1	1,199.6	2.3	2.2	174.41	-4.4	33.0	21.8	17.7	4.15	5.268		
1,300.0	1,296.8	1,301.1	1,299.1	2.6	2.4	174.14	-5.4	42.5	24.5	20.0	4.50	5.451		
1,400.0	1,396.0	1,401.0	1,398.6	2.8	2.7	173.92	-6.4	52.0	27.2	22.4	4.85	5.607		
1,500.0	1,495.3	1,501.0	1,498.1	3.1	2.9	173.74	-7.4	61.5	29.9	24.7	5.21	5.742		
1,600.0	1,594.5	1,601.0	1,597.6	3.4	3.1	173.59	-8.5	71.0	32.6	27.0	5.56	5.859		
1,700.0	1,693.8	1,700.9	1,697.1	3.6	3.4	173.46	-9.5	80.5	35.2	29.3	5.91	5.962		
1,800.0	1,793.0	1,800.9	1,796.6	3.9	3.6	173.35	-10.5	90.0	37.9	31.7	6.26	6.054		
1,900.0	1,892.3	1,900.9	1,896.1	4.2	3.8	173.26	-11.5	99.5	40.6	34.0	6.62	6.135		
2,000.0	1,991.6	2,000.8	1,995.6	4.4	4.1	173.18	-12.6	109.0	43.3	36.3	6.97	6.208		
2,100.0	2,090.8	2,100.8	2,095.1	4.7	4.3	173.10	-13.6	118.5	46.0	38.6	7.33	6.274		
2,200.0	2,190.1	2,200.8	2,194.7	5.0	4.5	173.04	-14.6	128.0	48.6	41.0	7.68	6.334		
2,300.0	2,289.3	2,300.7	2,294.2	5.3	4.8	172.98	-15.6	137.5	51.3	43.3	8.03	6.389		
2,400.0	2,388.6	2,400.7	2,393.7	5.5	5.0	172.93	-16.6	147.0	54.0	45.6	8.39	6.439		
2,500.0	2,487.8	2,500.7	2,493.2	5.8	5.3	172.88	-17.7	156.5	56.7	47.9	8.74	6.485		
2,600.0	2,587.1	2,600.6	2,592.7	6.1	5.5	172.84	-18.7	166.0	59.4	50.3	9.09	6.527		
2,700.0	2,686.3	2,700.6	2,692.2	6.4	5.7	172.80	-19.7	175.5	62.0	52.6	9.45	6.566		
2,800.0	2,785.6	2,800.5	2,791.7	6.6	6.0	172.76	-20.7	185.0	64.7	54.9	9.80	6.603		
2,900.0	2,884.8	2,900.5	2,891.2	6.9	6.2	172.73	-21.8	194.4	67.4	57.2	10.16	6.636		
3,000.0	2,984.1	3,000.5	2,990.7	7.2	6.5	172.70	-22.8	203.9	70.1	59.6	10.51	6.668		
3,100.0	3,083.4	3,100.4	3,090.2	7.4	6.7	172.67	-23.8	213.4	72.8	61.9	10.86	6.697		
3,200.0	3,182.6	3,200.4	3,189.7	7.7	6.9	172.64	-24.8	222.9	75.4	64.2	11.22	6.724		
3,300.0	3,281.9	3,300.4	3,289.2	8.0	7.2	172.62	-25.8	232.4	78.1	66.5	11.57	6.750		
3,400.0	3,381.1	3,400.3	3,388.7	8.3	7.4	172.60	-26.9	241.9	80.8	68.9	11.93	6.774		
3,500.0	3,480.4	3,500.3	3,488.2	8.5	7.7	172.57	-27.9	251.4	83.5	71.2	12.28	6.797		
3,600.0	3,579.6	3,600.3	3,587.7	8.8	7.9	172.55	-28.9	260.9	86.2	73.5	12.64	6.819		
3,700.0	3,678.9	3,700.2	3,687.3	9.1	8.1	172.54	-29.9	270.4	88.8	75.9	12.99	6.839		
3,800.0	3,778.1	3,800.2	3,786.8	9.4	8.4	172.52	-31.0	279.9	91.5	78.2	13.34	6.858		
3,900.0	3,877.4	3,900.1	3,886.3	9.6	8.6	172.50	-32.0	289.4	94.2	80.5	13.70	6.877		
4,000.0	3,976.7	4,000.1	3,985.8	9.9	8.9	172.48	-33.0	298.9	96.9	82.8	14.05	6.894		
4,100.0	4,075.9	4,100.1	4,085.3	10.2	9.1	172.47	-34.0	308.4	99.6	85.2	14.41	6.910		
4,200.0	4,175.2	4,200.0	4,184.8	10.5	9.3	172.46	-35.0	317.9	102.2	87.5	14.76	6.926		
4,300.0	4,274.4	4,300.0	4,284.3	10.7	9.6	172.44	-36.1	327.4	104.9	89.8	15.12	6.941		
4,400.0	4,373.7	4,400.0	4,383.8	11.0	9.8	172.43	-37.1	336.9	107.6	92.1	15.47	6.955		
4,500.0	4,472.9	4,499.9	4,483.3	11.3	10.1	172.42	-38.1	346.4	110.3	94.5	15.83	6.969		
4,600.0	4,572.2	4,599.9	4,582.8	11.6	10.3	172.41	-39.1	355.9	113.0	96.8	16.18	6.982		
4,700.0	4,671.4	4,699.9	4,682.3	11.8	10.5	172.39	-40.2	365.4	115.6	99.1	16.53	6.994		
4,800.0	4,770.7	4,799.8	4,781.8	12.1	10.8	172.38	-41.2	374.9	118.3	101.4	16.89	7.006		
4,900.0	4,869.9	4,899.8	4,881.3	12.4	11.0	172.37	-42.2	384.4	121.0	103.8	17.24	7.018		
5,000.0	4,969.2	4,999.8	4,980.8	12.7	11.3	172.36	-43.2	393.9	123.7	106.1	17.60	7.029		
5,100.0	5,068.5	5,099.7	5,080.3	12.9	11.5	172.35	-44.3	403.4	126.4	108.4	17.95	7.039		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor	
5,200.0	5,167.7	5,199.7	5,179.9	13.2	11.8	172.35	-45.3	412.8	129.0	110.7	18.31	7.049	
5,300.0	5,267.0	5,299.6	5,279.4	13.5	12.0	172.34	-46.3	422.3	131.7	113.1	18.66	7.059	
5,400.0	5,366.2	5,399.6	5,378.9	13.8	12.2	172.33	-47.3	431.8	134.4	115.4	19.01	7.068	
5,500.0	5,465.5	5,499.6	5,478.4	14.0	12.5	172.32	-48.3	441.3	137.1	117.7	19.37	7.078	
5,600.0	5,564.7	5,599.5	5,577.9	14.3	12.7	172.31	-49.4	450.8	139.8	120.0	19.72	7.086	
5,700.0	5,664.0	5,699.5	5,677.4	14.6	13.0	172.31	-50.4	460.3	142.4	122.4	20.08	7.095	
5,800.0	5,763.2	5,799.5	5,776.9	14.9	13.2	172.30	-51.4	469.8	145.1	124.7	20.43	7.103	
5,900.0	5,862.5	5,899.4	5,876.4	15.2	13.4	172.29	-52.4	479.3	147.8	127.0	20.79	7.111	
6,000.0	5,961.7	5,999.4	5,975.9	15.4	13.7	172.29	-53.5	488.8	150.5	129.3	21.14	7.118	
6,100.0	6,061.0	6,099.4	6,075.4	15.7	13.9	172.28	-54.5	498.3	153.2	131.7	21.50	7.125	
6,200.0	6,160.3	6,199.3	6,174.9	16.0	14.2	172.27	-55.5	507.8	155.8	134.0	21.85	7.132	
6,300.0	6,259.5	6,299.3	6,274.4	16.3	14.4	172.27	-56.5	517.3	158.5	136.3	22.21	7.139	
6,400.0	6,358.8	6,399.3	6,373.9	16.5	14.6	172.26	-57.5	526.8	161.2	138.6	22.56	7.146	
6,500.0	6,458.0	6,499.2	6,473.4	16.8	14.9	172.26	-58.6	536.3	163.9	141.0	22.91	7.152	
6,600.0	6,557.3	6,599.2	6,573.0	17.1	15.1	172.25	-59.6	545.8	166.6	143.3	23.27	7.159	
6,700.0	6,656.5	6,699.1	6,672.5	17.4	15.4	172.25	-60.6	555.3	169.2	145.6	23.62	7.165	
6,800.0	6,755.8	6,799.1	6,772.0	17.6	15.6	172.24	-61.6	564.8	171.9	148.0	23.98	7.170	
6,900.0	6,855.0	6,899.1	6,871.5	17.9	15.9	172.24	-62.7	574.3	174.6	150.3	24.33	7.176	
7,000.0	6,954.3	7,000.1	6,972.0	18.2	16.1	172.88	-61.7	583.9	177.1	152.5	24.64	7.189	
7,100.0	7,053.6	7,099.4	7,069.4	18.5	16.3	178.22	-45.9	593.4	179.5	154.7	24.78	7.244	
7,200.0	7,152.8	7,190.5	7,155.3	18.7	16.5	-172.50	-16.7	601.9	186.0	160.6	25.33	7.340	
7,300.0	7,251.8	7,273.4	7,228.4	19.0	16.7	-108.12	21.3	609.2	200.7	174.2	26.42	7.595	
7,400.0	7,348.3	7,350.0	7,290.5	19.3	16.9	-79.85	65.7	615.6	220.1	193.0	27.16	8.105	
7,500.0	7,439.5	7,428.5	7,347.5	19.5	17.2	-65.63	119.3	621.7	241.3	213.7	27.64	8.730	
7,600.0	7,522.5	7,500.0	7,392.5	19.8	17.5	-56.96	174.5	626.5	262.1	234.8	27.33	9.589	
7,700.0	7,594.8	7,574.6	7,431.9	20.2	17.9	-50.89	237.7	631.0	280.8	253.8	27.03	10.389	
7,800.0	7,654.3	7,650.0	7,463.0	20.6	18.4	-46.65	306.2	634.6	296.5	269.8	26.69	11.110	
7,900.0	7,699.1	7,715.5	7,482.6	21.1	18.9	-43.96	368.6	637.2	308.4	282.7	25.71	11.995	
8,000.0	7,727.9	7,784.8	7,495.4	21.8	19.5	-42.20	436.6	639.1	316.1	291.0	25.14	12.574	
8,100.0	7,739.7	7,853.8	7,500.0	22.6	20.1	-41.34	505.4	640.3	319.3	294.5	24.77	12.890	
8,200.0	7,740.0	7,952.1	7,500.0	23.4	21.0	-41.05	603.7	641.3	318.3	292.1	26.20	12.147	
8,300.0	7,740.0	8,052.1	7,500.0	24.4	22.1	-40.79	703.7	642.3	317.0	289.2	27.81	11.400	
8,400.0	7,740.0	8,152.0	7,500.0	25.4	23.3	-40.53	803.7	643.4	315.8	286.3	29.48	10.711	
8,500.0	7,740.0	8,252.0	7,500.0	26.5	24.5	-40.26	903.6	644.4	314.5	283.3	31.20	10.080	
8,600.0	7,740.0	8,352.0	7,500.0	27.7	25.8	-39.99	1,003.6	645.5	313.3	280.3	32.96	9.505	
8,700.0	7,740.0	8,452.0	7,500.0	28.9	27.1	-39.72	1,103.6	646.5	312.1	277.3	34.75	8.981	
8,800.0	7,740.0	8,552.0	7,500.0	30.2	28.5	-39.45	1,203.6	647.6	310.8	274.3	36.55	8.505	
8,900.0	7,740.0	8,652.0	7,500.0	31.6	30.0	-39.18	1,303.5	648.6	309.6	271.3	38.36	8.072	
9,000.0	7,740.0	8,751.9	7,500.0	32.9	31.4	-38.90	1,403.5	649.7	308.4	268.2	40.17	7.677	
9,100.0	7,740.0	8,851.9	7,500.0	34.4	32.9	-38.62	1,503.5	650.7	307.2	265.2	41.99	7.317	
9,200.0	7,740.0	8,951.9	7,500.0	35.8	34.4	-38.34	1,603.5	651.8	306.0	262.2	43.80	6.987	
9,300.0	7,740.0	9,051.9	7,500.0	37.3	36.0	-38.06	1,703.4	652.8	304.8	259.2	45.60	6.685	
9,400.0	7,740.0	9,151.9	7,500.0	38.8	37.5	-37.77	1,803.4	653.9	303.6	256.3	47.39	6.408	
9,500.0	7,740.0	9,251.8	7,500.0	40.3	39.1	-37.49	1,903.4	654.9	302.5	253.3	49.16	6.153	
9,600.0	7,740.0	9,351.8	7,500.0	41.8	40.7	-37.20	2,003.4	656.0	301.3	250.4	50.92	5.917	
9,700.0	7,740.0	9,451.8	7,500.0	43.3	42.3	-36.90	2,103.3	657.0	300.2	247.5	52.66	5.700	
9,800.0	7,740.0	9,551.8	7,500.0	44.9	43.9	-36.61	2,203.3	658.0	299.0	244.6	54.38	5.499	
9,900.0	7,740.0	9,651.8	7,500.0	46.5	45.5	-36.31	2,303.3	659.1	297.9	241.8	56.08	5.312	
10,000.0	7,740.0	9,751.8	7,500.0	48.1	47.1	-36.01	2,403.3	660.1	296.7	239.0	57.75	5.138	
10,100.0	7,740.0	9,851.7	7,500.0	49.7	48.8	-35.71	2,503.2	661.2	295.6	236.2	59.40	4.977	
10,200.0	7,740.0	9,951.7	7,500.0	51.3	50.4	-35.41	2,603.2	662.2	294.5	233.5	61.02	4.826	
10,300.0	7,740.0	10,051.6	7,500.0	52.9	52.1	-35.11	2,703.1	663.3	293.4	230.8	62.61	4.686	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5											Offset Site Error:		0.0 ft
Survey Program: 0-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,400.0	7,740.0	10,148.7	7,500.0	54.5	53.7	-34.95	2,800.3	663.4	292.8	228.7	64.09	4.568	
10,410.0	7,740.0	10,158.5	7,500.0	54.7	53.9	-34.95	2,810.0	663.3	292.8	228.5	64.26	4.556	
10,500.0	7,740.0	10,245.9	7,500.0	56.2	55.3	-35.05	2,897.4	661.9	293.2	227.3	65.91	4.448	
10,600.0	7,740.0	10,343.0	7,500.0	57.8	56.9	-35.42	2,994.4	658.8	294.6	226.5	68.09	4.326	
10,700.0	7,740.0	10,440.0	7,500.0	59.5	58.5	-36.04	3,091.3	654.0	296.9	226.3	70.65	4.203	
10,800.0	7,740.0	10,536.8	7,500.0	61.1	60.1	-36.90	3,187.9	647.6	300.4	226.8	73.60	4.081	
10,900.0	7,740.0	10,633.4	7,500.0	62.8	61.7	-37.98	3,284.2	639.5	304.9	228.0	76.92	3.964	
11,000.0	7,740.0	10,729.8	7,500.0	64.4	63.3	-39.26	3,380.1	629.9	310.6	230.0	80.58	3.854	
11,100.0	7,740.0	10,825.8	7,500.0	66.1	64.9	-40.71	3,475.4	618.7	317.5	233.0	84.56	3.755	
11,200.0	7,740.0	10,922.0	7,500.0	67.8	66.5	-42.31	3,570.7	605.9	325.8	237.0	88.86	3.667	
11,300.0	7,740.0	11,021.1	7,500.0	69.5	68.1	-43.96	3,668.9	592.1	334.8	241.1	93.66	3.574	
11,400.0	7,740.0	11,120.2	7,500.0	71.1	69.7	-45.52	3,767.1	578.3	344.0	245.6	98.42	3.495	
11,500.0	7,740.0	11,219.3	7,500.0	72.8	71.4	-47.02	3,865.1	564.6	354.1	250.9	103.27	3.429	
11,600.0	7,740.0	11,321.0	7,500.0	74.5	73.1	-48.63	3,966.0	550.7	365.6	256.9	108.64	3.365	
11,700.0	7,740.0	11,425.2	7,500.0	76.2	74.8	-50.14	4,069.3	538.3	376.5	262.5	114.04	3.302	
11,800.0	7,740.0	11,529.8	7,500.0	77.9	76.6	-51.39	4,173.4	527.7	386.2	267.1	119.12	3.243	
11,900.0	7,740.0	11,634.8	7,500.0	79.7	78.4	-52.42	4,278.1	519.0	394.7	270.8	123.91	3.185	
12,000.0	7,740.0	11,740.3	7,500.0	81.4	80.2	-53.23	4,383.4	512.2	401.8	273.4	128.43	3.129	
12,100.0	7,740.0	11,846.1	7,500.0	83.1	82.0	-53.86	4,489.0	507.3	407.5	274.8	132.69	3.071	
12,200.0	7,740.0	11,952.1	7,500.0	84.8	83.8	-54.32	4,595.0	504.3	411.7	275.0	136.69	3.012	
12,300.0	7,740.0	12,058.2	7,500.0	86.5	85.7	-54.61	4,701.2	503.3	414.4	274.0	140.42	2.951	
12,400.0	7,740.0	12,164.5	7,500.0	88.2	87.5	-54.73	4,807.4	504.3	415.7	271.8	143.89	2.889	
12,500.0	7,740.0	12,264.9	7,500.0	89.9	89.2	-54.77	4,907.8	506.3	416.1	269.2	146.82	2.834	
12,600.0	7,740.0	12,364.9	7,500.0	91.6	91.0	-54.81	5,007.8	508.3	416.4	266.7	149.73	2.781	
12,700.0	7,740.0	12,464.9	7,500.0	93.4	92.7	-54.84	5,107.8	510.2	416.8	264.2	152.64	2.731	
12,800.0	7,740.0	12,564.9	7,500.0	95.1	94.4	-54.88	5,207.7	512.2	417.2	261.6	155.55	2.682	
12,900.0	7,740.0	12,664.9	7,500.0	96.8	96.2	-54.92	5,307.7	514.2	417.6	259.1	158.47	2.635	
13,000.0	7,740.0	12,764.9	7,500.0	98.5	97.9	-54.95	5,407.7	516.2	417.9	256.5	161.39	2.590	
13,100.0	7,740.0	12,864.9	7,500.0	100.3	99.6	-54.99	5,507.7	518.1	418.3	254.0	164.31	2.546	
13,200.0	7,740.0	12,964.9	7,500.0	102.0	101.4	-55.02	5,607.7	520.1	418.7	251.4	167.24	2.504	
13,300.0	7,740.0	13,064.9	7,500.0	103.7	103.1	-55.06	5,707.6	522.1	419.1	248.9	170.17	2.463	
13,400.0	7,740.0	13,164.9	7,500.0	105.4	104.8	-55.10	5,807.6	524.0	419.4	246.3	173.10	2.423	
13,500.0	7,740.0	13,264.9	7,500.0	107.2	106.6	-55.13	5,907.6	526.0	419.8	243.8	176.04	2.385	
13,600.0	7,740.0	13,364.9	7,500.0	108.9	108.3	-55.17	6,007.6	528.0	420.2	241.2	178.98	2.348	
13,700.0	7,740.0	13,464.9	7,500.0	110.6	110.1	-55.20	6,107.6	530.0	420.6	238.7	181.92	2.312	
13,800.0	7,740.0	13,564.9	7,500.0	112.4	111.8	-55.24	6,207.5	531.9	420.9	236.1	184.86	2.277	
13,900.0	7,740.0	13,664.9	7,500.0	114.1	113.5	-55.28	6,307.5	533.9	421.3	233.5	187.81	2.243	
14,000.0	7,740.0	13,764.9	7,500.0	115.8	115.3	-55.31	6,407.5	535.9	421.7	230.9	190.76	2.211	
14,100.0	7,740.0	13,864.9	7,500.0	117.6	117.0	-55.35	6,507.5	537.8	422.1	228.4	193.72	2.179	
14,200.0	7,740.0	13,964.9	7,500.0	119.3	118.7	-55.38	6,607.5	539.8	422.5	225.8	196.67	2.148	
14,300.0	7,740.0	14,064.9	7,500.0	121.0	120.5	-55.42	6,707.4	541.8	422.8	223.2	199.63	2.118	
14,400.0	7,740.0	14,164.9	7,500.0	122.8	122.2	-55.45	6,807.4	543.8	423.2	220.6	202.59	2.089	
14,500.0	7,740.0	14,264.9	7,500.0	124.5	124.0	-55.49	6,907.4	545.7	423.6	218.0	205.56	2.061	
14,600.0	7,740.0	14,364.9	7,500.0	126.2	125.7	-55.52	7,007.4	547.7	424.0	215.4	208.52	2.033	
14,699.3	7,740.0	14,458.1	7,500.0	128.0	127.3	-55.56	7,100.5	549.5	424.4	213.3	211.05	2.011 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	92.76	-0.4	7.6	7.6				
100.0	100.0	100.0	100.0	0.2	0.2	92.76	-0.4	7.6	7.6	7.3	0.30	24.912	
200.0	200.0	200.0	200.0	0.3	0.3	92.76	-0.4	7.6	7.6	6.9	0.65	11.590	
300.0	300.0	300.0	300.0	0.5	0.5	92.76	-0.4	7.6	7.6	6.6	1.00	7.552	CC, ES
400.0	400.0	399.9	399.9	0.7	0.7	91.69	-0.2	8.4	8.4	7.1	1.35	6.238	
500.0	500.0	499.7	499.6	0.9	0.9	-4.79	0.1	11.0	10.1	8.4	1.70	5.969	
600.0	600.0	599.5	599.3	1.0	1.0	-8.33	0.7	15.3	11.9	9.8	2.05	5.804	
700.0	699.9	699.2	698.9	1.2	1.2	-12.41	1.5	21.3	13.7	11.3	2.39	5.714	
800.0	799.7	799.0	798.3	1.4	1.4	-16.80	2.5	29.1	15.6	12.9	2.74	5.684	
900.0	899.4	898.6	897.5	1.6	1.7	-21.31	3.8	38.5	17.7	14.6	3.10	5.701	
1,000.0	998.9	998.3	996.6	1.8	1.9	-25.81	5.3	49.7	20.0	16.5	3.47	5.750	
1,100.0	1,098.3	1,097.9	1,095.3	2.1	2.2	-30.18	7.1	62.5	22.5	18.6	3.86	5.817	
1,200.0	1,197.5	1,197.4	1,193.8	2.3	2.5	-33.29	9.0	77.1	26.0	21.7	4.27	6.080	
1,300.0	1,296.8	1,296.8	1,291.8	2.6	2.8	-34.35	11.2	93.3	31.1	26.4	4.68	6.650	
1,400.0	1,396.0	1,396.1	1,389.4	2.8	3.1	-34.06	13.6	111.1	37.9	32.8	5.08	7.458	
1,500.0	1,495.3	1,495.4	1,486.8	3.1	3.5	-33.14	16.3	130.5	46.0	40.5	5.47	8.417	
1,600.0	1,594.5	1,595.0	1,584.4	3.4	3.9	-32.41	18.9	150.1	54.4	48.5	5.86	9.277	
1,700.0	1,693.8	1,694.7	1,682.1	3.6	4.2	-31.88	21.6	169.7	62.7	56.5	6.26	10.028	
1,800.0	1,793.0	1,794.3	1,779.8	3.9	4.6	-31.47	24.2	189.3	71.1	64.4	6.65	10.687	
1,900.0	1,892.3	1,894.0	1,877.4	4.2	5.0	-31.15	26.9	209.0	79.5	72.4	7.05	11.272	
2,000.0	1,991.6	1,993.6	1,975.1	4.4	5.4	-30.89	29.5	228.6	87.9	80.4	7.45	11.793	
2,100.0	2,090.8	2,093.3	2,072.8	4.7	5.8	-30.67	32.2	248.2	96.2	88.4	7.85	12.260	
2,200.0	2,190.1	2,192.9	2,170.4	5.0	6.1	-30.49	34.8	267.8	104.6	96.4	8.25	12.681	
2,300.0	2,289.3	2,292.6	2,268.1	5.3	6.5	-30.34	37.5	287.4	113.0	104.3	8.65	13.063	
2,400.0	2,388.6	2,392.2	2,365.7	5.5	6.9	-30.20	40.1	307.0	121.4	112.3	9.05	13.410	
2,500.0	2,487.8	2,491.9	2,463.4	5.8	7.3	-30.09	42.8	326.7	129.8	120.3	9.45	13.728	
2,600.0	2,587.1	2,591.5	2,561.1	6.1	7.7	-29.99	45.4	346.3	138.1	128.3	9.85	14.019	
2,700.0	2,686.3	2,691.2	2,658.7	6.4	8.1	-29.90	48.1	365.9	146.5	136.3	10.25	14.287	
2,800.0	2,785.6	2,790.8	2,756.4	6.6	8.5	-29.82	50.7	385.5	154.9	144.2	10.66	14.535	
2,900.0	2,884.8	2,890.5	2,854.0	6.9	8.8	-29.74	53.4	405.1	163.3	152.2	11.06	14.764	
3,000.0	2,984.1	2,990.1	2,951.7	7.2	9.2	-29.68	56.0	424.8	171.7	160.2	11.46	14.977	
3,100.0	3,083.4	3,089.8	3,049.4	7.4	9.6	-29.62	58.7	444.4	180.0	168.2	11.86	15.176	
3,200.0	3,182.6	3,189.4	3,147.0	7.7	10.0	-29.57	61.3	464.0	188.4	176.2	12.27	15.361	
3,300.0	3,281.9	3,289.1	3,244.7	8.0	10.4	-29.52	64.0	483.6	196.8	184.1	12.67	15.535	
3,400.0	3,381.1	3,388.7	3,342.4	8.3	10.8	-29.47	66.6	503.2	205.2	192.1	13.07	15.697	
3,500.0	3,480.4	3,488.4	3,440.0	8.5	11.2	-29.43	69.3	522.8	213.6	200.1	13.47	15.850	
3,600.0	3,579.6	3,588.0	3,537.7	8.8	11.6	-29.39	71.9	542.5	222.0	208.1	13.88	15.994	
3,700.0	3,678.9	3,687.6	3,635.3	9.1	12.0	-29.36	74.6	562.1	230.3	216.1	14.28	16.129	
3,800.0	3,778.1	3,787.3	3,733.0	9.4	12.4	-29.32	77.2	581.7	238.7	224.0	14.68	16.258	
3,900.0	3,877.4	3,886.9	3,830.7	9.6	12.7	-29.29	79.9	601.3	247.1	232.0	15.09	16.379	
4,000.0	3,976.7	3,986.6	3,928.3	9.9	13.1	-29.26	82.6	620.9	255.5	240.0	15.49	16.493	
4,100.0	4,075.9	4,086.2	4,026.0	10.2	13.5	-29.24	85.2	640.6	263.9	248.0	15.89	16.602	
4,200.0	4,175.2	4,185.9	4,123.7	10.5	13.9	-29.21	87.9	660.2	272.3	256.0	16.30	16.706	
4,300.0	4,274.4	4,285.5	4,221.3	10.7	14.3	-29.19	90.5	679.8	280.6	263.9	16.70	16.804	
4,400.0	4,373.7	4,385.2	4,319.0	11.0	14.7	-29.16	93.2	699.4	289.0	271.9	17.10	16.898	
4,500.0	4,472.9	4,484.8	4,416.6	11.3	15.1	-29.14	95.8	719.0	297.4	279.9	17.51	16.987	
4,600.0	4,572.2	4,584.5	4,514.3	11.6	15.5	-29.12	98.5	738.6	305.8	287.9	17.91	17.073	
4,700.0	4,671.4	4,684.1	4,612.0	11.8	15.9	-29.10	101.1	758.3	314.2	295.9	18.32	17.154	
4,800.0	4,770.7	4,783.8	4,709.6	12.1	16.3	-29.09	103.8	777.9	322.6	303.9	18.72	17.232	
4,900.0	4,869.9	4,883.4	4,807.3	12.4	16.7	-29.07	106.4	797.5	331.0	311.8	19.12	17.307	
5,000.0	4,969.2	4,983.1	4,904.9	12.7	17.1	-29.05	109.1	817.1	339.3	319.8	19.53	17.378	
5,100.0	5,068.5	5,082.7	5,002.6	12.9	17.4	-29.04	111.7	836.7	347.7	327.8	19.93	17.447	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	5,167.7	5,182.4	5,100.3	13.2	17.8	-29.02	114.4	856.4	356.1	335.8	20.33	17.513	
5,300.0	5,267.0	5,282.0	5,197.9	13.5	18.2	-29.01	117.0	876.0	364.5	343.8	20.74	17.576	
5,400.0	5,366.2	5,381.7	5,295.6	13.8	18.6	-29.00	119.7	895.6	372.9	351.7	21.14	17.637	
5,500.0	5,465.5	5,481.3	5,393.3	14.0	19.0	-28.98	122.3	915.2	381.3	359.7	21.55	17.695	
5,600.0	5,564.7	5,581.0	5,490.9	14.3	19.4	-28.97	125.0	934.8	389.6	367.7	21.95	17.752	
5,700.0	5,664.0	5,680.6	5,588.6	14.6	19.8	-28.96	127.6	954.4	398.0	375.7	22.35	17.806	
5,800.0	5,763.2	5,780.3	5,686.2	14.9	20.2	-28.95	130.3	974.1	406.4	383.7	22.76	17.858	
5,900.0	5,862.5	5,879.9	5,783.9	15.2	20.6	-28.94	132.9	993.7	414.8	391.6	23.16	17.909	
6,000.0	5,961.7	5,979.6	5,881.6	15.4	21.0	-28.93	135.6	1,013.3	423.2	399.6	23.57	17.958	
6,100.0	6,061.0	6,079.2	5,979.2	15.7	21.4	-28.92	138.2	1,032.9	431.6	407.6	23.97	18.005	
6,200.0	6,160.3	6,178.8	6,076.9	16.0	21.8	-28.91	140.9	1,052.5	440.0	415.6	24.37	18.050	
6,300.0	6,259.5	6,278.5	6,174.5	16.3	22.1	-28.90	143.5	1,072.2	448.3	423.6	24.78	18.094	
6,400.0	6,358.8	6,378.1	6,272.2	16.5	22.5	-28.89	146.2	1,091.8	456.7	431.5	25.18	18.137	
6,500.0	6,458.0	6,477.8	6,369.9	16.8	22.9	-28.88	148.8	1,111.4	465.1	439.5	25.59	18.178	
6,600.0	6,557.3	6,577.4	6,467.5	17.1	23.3	-28.87	151.5	1,131.0	473.5	447.5	25.99	18.218	
6,700.0	6,656.5	6,677.1	6,565.2	17.4	23.7	-28.86	154.2	1,150.6	481.9	455.5	26.39	18.257	
6,800.0	6,755.8	6,776.7	6,662.9	17.6	24.1	-28.86	156.8	1,170.2	490.3	463.5	26.80	18.295	
6,900.0	6,855.0	6,876.4	6,760.5	17.9	24.5	-28.85	159.5	1,189.9	498.6	471.4	27.20	18.331	
7,000.0	6,954.3	6,976.0	6,858.2	18.2	24.9	-28.84	162.1	1,209.5	507.0	479.4	27.61	18.366	
7,100.0	7,053.6	7,074.0	6,954.2	18.5	25.3	-28.83	164.7	1,228.8	515.4	487.4	28.00	18.406	
7,200.0	7,152.8	7,150.0	7,028.3	18.7	25.6	-29.33	171.8	1,243.7	526.6	498.2	28.36	18.567	
7,300.0	7,251.8	7,215.8	7,091.3	19.0	25.9	22.34	185.9	1,256.5	540.4	511.9	28.49	18.970	
7,400.0	7,348.3	7,284.6	7,155.0	19.3	26.2	40.27	208.5	1,269.4	552.1	524.0	28.17	19.598	
7,500.0	7,439.5	7,350.0	7,212.5	19.5	26.5	46.33	237.0	1,281.2	561.2	533.7	27.44	20.449	
7,600.0	7,522.5	7,421.6	7,271.5	19.8	26.9	49.42	275.6	1,293.4	567.3	540.7	26.67	21.276	
7,700.0	7,594.8	7,490.1	7,323.1	20.2	27.3	51.61	319.4	1,304.1	570.5	544.6	25.94	21.995	
7,800.0	7,654.3	7,559.2	7,369.5	20.6	27.7	53.63	369.5	1,313.9	570.7	545.1	25.64	22.261	
7,900.0	7,699.1	7,628.9	7,410.0	21.1	28.1	55.76	425.6	1,322.5	568.3	542.2	26.08	21.787	
8,000.0	7,727.9	7,700.0	7,444.1	21.8	28.6	58.15	487.5	1,329.9	563.4	536.0	27.45	20.523	
8,100.0	7,739.7	7,771.9	7,470.7	22.6	29.1	60.85	553.9	1,335.8	556.7	527.0	29.76	18.707	
8,200.0	7,740.0	7,850.0	7,490.1	23.4	29.7	62.99	629.4	1,340.3	550.8	518.2	32.59	16.901	
8,295.3	7,740.0	7,922.4	7,498.9	24.3	30.3	63.95	701.1	1,342.7	549.0	513.5	35.55	15.445	
8,300.0	7,740.0	7,926.1	7,499.1	24.4	30.4	63.98	704.9	1,342.8	549.0	513.3	35.69	15.384	
8,400.0	7,740.0	8,018.4	7,500.0	25.4	31.1	64.14	797.2	1,343.8	550.3	512.0	38.33	14.358	
8,500.0	7,740.0	8,118.4	7,500.0	26.5	32.1	64.22	897.2	1,344.7	551.9	511.1	40.81	13.524	
8,600.0	7,740.0	8,218.4	7,500.0	27.7	33.1	64.30	997.1	1,345.5	553.5	510.1	43.38	12.757	
8,700.0	7,740.0	8,318.4	7,500.0	28.9	34.1	64.38	1,097.1	1,346.4	555.0	509.0	46.04	12.056	
8,800.0	7,740.0	8,418.4	7,500.0	30.2	35.2	64.45	1,197.1	1,347.3	556.6	507.8	48.76	11.415	
8,900.0	7,740.0	8,518.4	7,500.0	31.6	36.4	64.53	1,297.1	1,348.2	558.2	506.6	51.54	10.830	
9,000.0	7,740.0	8,618.4	7,500.0	32.9	37.6	64.61	1,397.1	1,349.0	559.8	505.4	54.37	10.296	
9,100.0	7,740.0	8,718.3	7,500.0	34.4	38.8	64.68	1,497.1	1,349.9	561.3	504.1	57.24	9.807	
9,200.0	7,740.0	8,818.3	7,500.0	35.8	40.1	64.76	1,597.0	1,350.8	562.9	502.8	60.15	9.359	
9,300.0	7,740.0	8,918.3	7,500.0	37.3	41.4	64.84	1,697.0	1,351.6	564.5	501.4	63.08	8.948	
9,400.0	7,740.0	9,018.3	7,500.0	38.8	42.8	64.91	1,797.0	1,352.5	566.1	500.0	66.05	8.570	
9,500.0	7,740.0	9,118.3	7,500.0	40.3	44.2	64.99	1,897.0	1,353.4	567.7	498.6	69.05	8.221	
9,600.0	7,740.0	9,218.3	7,500.0	41.8	45.6	65.06	1,997.0	1,354.3	569.2	497.2	72.06	7.899	
9,700.0	7,740.0	9,318.2	7,500.0	43.3	47.0	65.13	2,096.9	1,355.1	570.8	495.7	75.10	7.601	
9,800.0	7,740.0	9,418.2	7,500.0	44.9	48.4	65.21	2,196.9	1,356.0	572.4	494.3	78.15	7.324	
9,900.0	7,740.0	9,518.2	7,500.0	46.5	49.9	65.28	2,296.9	1,356.9	574.0	492.8	81.22	7.067	
10,000.0	7,740.0	9,624.3	7,500.0	48.1	51.5	65.34	2,403.0	1,357.4	575.3	491.2	84.03	6.846	
10,100.0	7,740.0	9,734.3	7,500.0	49.7	53.1	65.32	2,513.0	1,356.0	574.9	488.3	86.60	6.639	
10,200.0	7,740.0	9,844.3	7,500.0	51.3	54.8	65.22	2,622.9	1,352.6	572.8	483.7	89.10	6.429	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
10,300.0	7,740.0	9,954.1	7,500.0	52.9	56.4	65.02	2,732.6	1,347.0	569.0	477.5	91.52	6.217	
10,400.0	7,740.0	10,063.8	7,500.0	54.5	58.0	64.73	2,842.0	1,339.3	563.5	469.6	93.85	6.004	
10,500.0	7,740.0	10,173.1	7,500.0	56.2	59.7	64.35	2,950.9	1,329.6	556.2	460.1	96.06	5.790	
10,600.0	7,740.0	10,275.7	7,500.0	57.8	61.2	63.90	3,052.9	1,319.0	547.7	449.0	98.60	5.554	
10,700.0	7,740.0	10,375.2	7,500.0	59.5	62.7	63.46	3,151.9	1,308.6	539.1	437.7	101.30	5.321	
10,800.0	7,740.0	10,474.7	7,500.0	61.1	64.3	62.99	3,250.9	1,298.1	530.5	426.5	103.97	5.102	
10,900.0	7,740.0	10,574.3	7,500.0	62.8	65.8	62.52	3,349.9	1,287.7	522.0	415.4	106.59	4.897	
11,000.0	7,740.0	10,673.8	7,500.0	64.4	67.3	62.02	3,448.9	1,277.3	513.5	404.3	109.18	4.703	
11,100.0	7,740.0	10,773.4	7,500.0	66.1	68.9	61.51	3,547.8	1,266.9	505.0	393.3	111.72	4.521	
11,200.0	7,740.0	10,872.9	7,500.0	67.8	70.5	60.99	3,646.8	1,256.5	496.6	382.4	114.20	4.348	
11,300.0	7,740.0	10,972.4	7,500.0	69.5	72.0	60.44	3,745.8	1,246.1	488.2	371.6	116.64	4.186	
11,400.0	7,740.0	11,072.0	7,500.0	71.1	73.6	59.88	3,844.8	1,235.7	479.9	360.9	119.01	4.032	
11,500.0	7,740.0	11,171.4	7,500.0	72.8	75.2	59.19	3,943.7	1,225.3	470.9	349.6	121.26	3.883	
11,600.0	7,740.0	11,270.7	7,500.0	74.5	76.8	58.37	4,042.4	1,214.9	460.4	337.1	123.29	3.734	
11,700.0	7,740.0	11,369.9	7,500.0	76.2	78.4	57.51	4,141.1	1,204.6	449.5	324.3	125.15	3.592	
11,800.0	7,740.0	11,469.0	7,500.0	77.9	80.0	56.61	4,239.7	1,194.2	438.7	311.8	126.87	3.457	
11,900.0	7,740.0	11,568.2	7,500.0	79.7	81.6	55.66	4,338.3	1,183.9	427.9	299.5	128.45	3.331	
12,000.0	7,740.0	11,667.4	7,500.0	81.4	83.2	54.67	4,436.9	1,173.5	417.3	287.5	129.87	3.214	
12,100.0	7,740.0	11,766.5	7,500.0	83.1	84.9	53.63	4,535.6	1,163.1	406.9	275.8	131.11	3.103	
12,200.0	7,740.0	11,862.7	7,500.0	84.8	86.4	52.58	4,631.2	1,153.3	396.8	264.3	132.51	2.994	
12,300.0	7,740.0	11,956.9	7,500.0	86.5	88.0	51.64	4,725.1	1,145.2	388.0	253.9	134.13	2.893	
12,400.0	7,740.0	12,051.5	7,500.0	88.2	89.6	50.80	4,819.5	1,138.5	380.6	244.8	135.80	2.803	
12,500.0	7,740.0	12,146.4	7,500.0	89.9	91.2	50.09	4,914.2	1,133.4	374.6	237.0	137.57	2.723	
12,600.0	7,740.0	12,241.5	7,500.0	91.6	92.8	49.50	5,009.2	1,129.8	369.9	230.4	139.50	2.652	
12,700.0	7,740.0	12,336.8	7,500.0	93.4	94.4	49.07	5,104.5	1,127.9	366.5	224.8	141.63	2.588	
12,800.0	7,740.0	12,432.1	7,500.0	95.1	96.0	48.79	5,199.9	1,127.5	364.3	220.3	144.02	2.530	
12,900.0	7,740.0	12,527.6	7,500.0	96.8	97.6	48.67	5,295.3	1,128.7	363.4	216.8	146.70	2.478	
12,920.4	7,740.0	12,547.1	7,500.0	97.2	98.0	48.67	5,314.8	1,129.1	363.4	216.1	147.28	2.467	
13,000.0	7,740.0	12,623.0	7,500.0	98.5	99.3	48.72	5,390.7	1,131.5	363.8	214.1	149.70	2.430	
13,100.0	7,740.0	12,718.4	7,500.0	100.3	100.9	48.94	5,486.0	1,135.8	365.4	212.4	153.04	2.388	
13,200.0	7,740.0	12,813.8	7,500.0	102.0	102.6	49.31	5,581.2	1,141.8	368.3	211.6	156.73	2.350	
13,300.0	7,740.0	12,913.7	7,500.0	103.7	104.3	49.77	5,680.8	1,148.9	371.9	211.5	160.40	2.318	
13,400.0	7,740.0	13,013.6	7,500.0	105.4	106.0	50.23	5,780.5	1,155.9	375.4	211.3	164.08	2.288	
13,500.0	7,740.0	13,113.5	7,500.0	107.2	107.7	50.68	5,880.1	1,162.9	379.0	211.2	167.78	2.259	
13,600.0	7,740.0	13,213.4	7,500.0	108.9	109.5	51.11	5,979.8	1,170.0	382.6	211.1	171.47	2.231	
13,700.0	7,740.0	13,313.3	7,500.0	110.6	111.2	51.55	6,079.4	1,177.0	386.2	211.0	175.18	2.204	
13,800.0	7,740.0	13,413.2	7,500.0	112.4	112.9	51.97	6,179.1	1,184.1	389.8	210.9	178.89	2.179	
13,900.0	7,740.0	13,513.1	7,500.0	114.1	114.7	52.38	6,278.7	1,191.1	393.5	210.9	182.60	2.155	
14,000.0	7,740.0	13,613.0	7,500.0	115.8	116.4	52.79	6,378.3	1,198.2	397.1	210.8	186.32	2.131	
14,100.0	7,740.0	13,712.8	7,500.0	117.6	118.2	53.19	6,478.0	1,205.2	400.8	210.8	190.04	2.109	
14,200.0	7,740.0	13,812.7	7,500.0	119.3	119.9	53.58	6,577.6	1,212.3	404.6	210.8	193.77	2.088	
14,300.0	7,740.0	13,912.6	7,500.0	121.0	121.6	53.97	6,677.3	1,219.3	408.3	210.8	197.50	2.067	
14,400.0	7,740.0	14,012.5	7,500.0	122.8	123.4	54.35	6,776.9	1,226.4	412.0	210.8	201.23	2.048	
14,500.0	7,740.0	14,112.4	7,500.0	124.5	125.1	54.72	6,876.6	1,233.4	415.8	210.8	204.97	2.029	
14,600.0	7,740.0	14,212.3	7,500.0	126.2	126.8	55.08	6,976.2	1,240.5	419.6	210.9	208.71	2.010	
14,699.3	7,740.0	14,311.6	7,500.0	128.0	128.6	55.44	7,075.2	1,247.5	423.4	210.9	212.42	1.993 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	91.42	-0.4	14.8	14.8						
100.0	100.0	100.0	100.0	0.2	0.2	91.42	-0.4	14.8	14.8	14.5	0.30	48.860			
200.0	200.0	200.0	200.0	0.3	0.3	91.42	-0.4	14.8	14.8	14.2	0.65	22.732			
203.3	203.3	203.3	203.3	0.3	0.3	91.42	-0.4	14.8	14.8	14.2	0.66	22.332 CC			
300.0	300.0	299.9	299.9	0.5	0.5	91.55	-0.4	15.0	15.1	14.1	1.00	15.030 ES			
400.0	400.0	399.6	399.6	0.7	0.7	92.42	-0.7	16.8	16.8	15.4	1.35	12.428			
500.0	500.0	499.2	499.2	0.9	0.9	-0.18	-1.3	20.2	19.4	17.7	1.70	11.402			
600.0	600.0	598.8	598.6	1.0	1.0	1.29	-2.2	25.3	21.9	19.9	2.05	10.724			
700.0	699.9	698.4	697.9	1.2	1.3	2.88	-3.4	32.1	24.5	22.1	2.39	10.247			
800.0	799.7	797.9	797.1	1.4	1.5	4.55	-4.9	40.6	27.1	24.4	2.74	9.896			
900.0	899.4	897.4	896.0	1.6	1.7	6.29	-6.7	50.8	29.7	26.6	3.09	9.630			
1,000.0	998.9	996.8	994.7	1.8	2.0	8.06	-8.8	62.7	32.4	28.9	3.43	9.425			
1,100.0	1,098.3	1,096.2	1,093.1	2.1	2.3	9.87	-11.2	76.3	35.0	31.3	3.78	9.261			
1,200.0	1,197.5	1,195.5	1,191.2	2.3	2.6	11.44	-13.9	91.5	38.6	34.5	4.14	9.338			
1,300.0	1,296.8	1,294.6	1,288.9	2.6	2.9	12.48	-16.9	108.4	43.9	39.5	4.49	9.787			
1,400.0	1,396.0	1,393.6	1,386.0	2.8	3.2	13.05	-20.1	126.8	51.0	46.1	4.84	10.528			
1,500.0	1,495.3	1,492.2	1,482.5	3.1	3.6	13.27	-23.7	146.9	59.7	54.6	5.20	11.500			
1,600.0	1,594.5	1,590.6	1,578.4	3.4	4.0	13.25	-27.5	168.6	70.2	64.7	5.54	12.661			
1,700.0	1,693.8	1,688.6	1,673.5	3.6	4.5	13.09	-31.6	191.7	82.3	76.5	5.89	13.979			
1,800.0	1,793.0	1,786.8	1,768.5	3.9	4.9	12.79	-35.8	216.5	96.0	89.8	6.24	15.391			
1,900.0	1,892.3	1,886.2	1,864.5	4.2	5.4	11.82	-38.8	242.0	109.8	103.2	6.59	16.659			
2,000.0	1,991.6	1,985.6	1,960.5	4.4	5.9	10.28	-40.0	267.6	123.3	116.4	6.93	17.790			
2,100.0	2,090.8	2,087.0	2,058.7	4.7	6.3	8.76	-40.5	292.9	135.9	128.6	7.28	18.658			
2,200.0	2,190.1	2,187.9	2,156.8	5.0	6.8	7.63	-40.9	316.5	146.9	139.3	7.63	19.249			
2,300.0	2,289.3	2,287.3	2,253.5	5.3	7.2	6.68	-41.3	339.4	157.7	149.7	7.97	19.772			
2,400.0	2,388.6	2,386.6	2,350.2	5.5	7.7	5.86	-41.8	362.2	168.4	160.1	8.32	20.253			
2,500.0	2,487.8	2,486.0	2,446.9	5.8	8.1	5.14	-42.2	385.1	179.2	170.6	8.66	20.698			
2,600.0	2,587.1	2,585.4	2,543.7	6.1	8.5	4.50	-42.6	408.0	190.1	181.1	9.00	21.109			
2,700.0	2,686.3	2,684.8	2,640.4	6.4	9.0	3.93	-43.0	430.9	200.9	191.6	9.35	21.492			
2,800.0	2,785.6	2,784.2	2,737.1	6.6	9.4	3.42	-43.4	453.7	211.8	202.1	9.69	21.847			
2,900.0	2,884.8	2,883.6	2,833.8	6.9	9.8	2.96	-43.8	476.6	222.7	212.7	10.04	22.179			
3,000.0	2,984.1	2,983.0	2,930.6	7.2	10.3	2.54	-44.2	499.5	233.6	223.2	10.39	22.488			
3,100.0	3,083.4	3,082.4	3,027.3	7.4	10.7	2.16	-44.7	522.4	244.5	233.8	10.73	22.778			
3,200.0	3,182.6	3,181.8	3,124.0	7.7	11.2	1.81	-45.1	545.3	255.4	244.3	11.08	23.050			
3,300.0	3,281.9	3,281.2	3,220.7	8.0	11.6	1.49	-45.5	568.1	266.4	254.9	11.43	23.306			
3,400.0	3,381.1	3,380.5	3,317.4	8.3	12.1	1.19	-45.9	591.0	277.3	265.5	11.78	23.546			
3,500.0	3,480.4	3,479.9	3,414.2	8.5	12.5	0.92	-46.3	613.9	288.2	276.1	12.12	23.773			
3,600.0	3,579.6	3,579.3	3,510.9	8.8	12.9	0.66	-46.7	636.8	299.2	286.7	12.47	23.987			
3,700.0	3,678.9	3,678.7	3,607.6	9.1	13.4	0.43	-47.1	659.7	310.1	297.3	12.82	24.190			
3,800.0	3,778.1	3,778.1	3,704.3	9.4	13.8	0.21	-47.6	682.5	321.1	307.9	13.17	24.382			
3,900.0	3,877.4	3,877.5	3,801.0	9.6	14.3	0.01	-48.0	705.4	332.1	318.5	13.52	24.564			
4,000.0	3,976.7	3,976.9	3,897.8	9.9	14.7	-0.19	-48.4	728.3	343.0	329.2	13.87	24.737			
4,100.0	4,075.9	4,076.3	3,994.5	10.2	15.1	-0.37	-48.8	751.2	354.0	339.8	14.22	24.901			
4,200.0	4,175.2	4,175.7	4,091.2	10.5	15.6	-0.53	-49.2	774.1	365.0	350.4	14.57	25.058			
4,300.0	4,274.4	4,275.1	4,187.9	10.7	16.0	-0.69	-49.6	796.9	376.0	361.0	14.92	25.207			
4,400.0	4,373.7	4,374.4	4,284.6	11.0	16.5	-0.84	-50.0	819.8	386.9	371.7	15.26	25.349			
4,500.0	4,472.9	4,473.8	4,381.4	11.3	16.9	-0.98	-50.4	842.7	397.9	382.3	15.61	25.485			
4,600.0	4,572.2	4,573.2	4,478.1	11.6	17.4	-1.12	-50.9	865.6	408.9	392.9	15.96	25.615			
4,700.0	4,671.4	4,672.6	4,574.8	11.8	17.8	-1.25	-51.3	888.5	419.9	403.6	16.31	25.740			
4,800.0	4,770.7	4,772.0	4,671.5	12.1	18.3	-1.37	-51.7	911.3	430.9	414.2	16.66	25.859			
4,900.0	4,869.9	4,871.4	4,768.2	12.4	18.7	-1.48	-52.1	934.2	441.9	424.9	17.01	25.973			
5,000.0	4,969.2	4,970.8	4,865.0	12.7	19.1	-1.59	-52.5	957.1	452.9	435.5	17.36	26.083			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,100.0	5,068.5	5,070.2	4,961.7	12.9	19.6	-1.69	-52.9	980.0	463.9	446.2	17.71	26.188	
5,200.0	5,167.7	5,169.6	5,058.4	13.2	20.0	-1.79	-53.3	1,002.9	474.9	456.8	18.06	26.289	
5,300.0	5,267.0	5,269.0	5,155.1	13.5	20.5	-1.89	-53.8	1,025.7	485.9	467.5	18.41	26.386	
5,400.0	5,366.2	5,368.4	5,251.8	13.8	20.9	-1.98	-54.2	1,048.6	496.9	478.1	18.76	26.480	
5,500.0	5,465.5	5,467.7	5,348.6	14.0	21.4	-2.06	-54.6	1,071.5	507.9	488.7	19.11	26.570	
5,600.0	5,564.7	5,567.1	5,445.3	14.3	21.8	-2.15	-55.0	1,094.4	518.9	499.4	19.46	26.657	
5,700.0	5,664.0	5,666.5	5,542.0	14.6	22.2	-2.23	-55.4	1,117.2	529.9	510.1	19.81	26.741	
5,800.0	5,763.2	5,765.9	5,638.7	14.9	22.7	-2.30	-55.8	1,140.1	540.9	520.7	20.17	26.822	
5,900.0	5,862.5	5,865.3	5,735.4	15.2	23.1	-2.37	-56.2	1,163.0	551.9	531.4	20.52	26.900	
6,000.0	5,961.7	5,964.7	5,832.2	15.4	23.6	-2.45	-56.7	1,185.9	562.9	542.0	20.87	26.976	
6,100.0	6,061.0	6,064.1	5,928.9	15.7	24.0	-2.51	-57.1	1,208.8	573.9	552.7	21.22	27.049	
6,200.0	6,160.3	6,163.5	6,025.6	16.0	24.5	-2.58	-57.5	1,231.6	584.9	563.3	21.57	27.119	
6,300.0	6,259.5	6,262.9	6,122.3	16.3	24.9	-2.64	-57.9	1,254.5	595.9	574.0	21.92	27.188	
6,400.0	6,358.8	6,362.3	6,219.0	16.5	25.4	-2.70	-58.3	1,277.4	606.9	584.6	22.27	27.254	
6,500.0	6,458.0	6,461.6	6,315.8	16.8	25.8	-2.76	-58.7	1,300.3	617.9	595.3	22.62	27.318	
6,600.0	6,557.3	6,561.0	6,412.5	17.1	26.2	-2.81	-59.1	1,323.2	628.9	606.0	22.97	27.380	
6,700.0	6,656.5	6,660.4	6,509.2	17.4	26.7	-2.87	-59.5	1,346.0	639.9	616.6	23.32	27.441	
6,800.0	6,755.8	6,759.8	6,605.9	17.6	27.1	-2.92	-60.0	1,368.9	650.9	627.3	23.67	27.499	
6,900.0	6,855.0	6,859.2	6,702.6	17.9	27.6	-2.97	-60.4	1,391.8	662.0	637.9	24.02	27.556	
7,000.0	6,954.3	6,958.6	6,799.4	18.2	28.0	-3.02	-60.8	1,414.7	673.0	648.6	24.37	27.611	
7,100.0	7,053.6	7,058.0	6,896.1	18.5	28.5	-3.07	-61.2	1,437.6	684.0	659.3	24.72	27.665	
7,200.0	7,152.8	7,157.4	6,992.8	18.7	28.9	-3.11	-61.6	1,460.4	695.0	669.9	25.07	27.717	
7,300.0	7,251.8	7,256.5	7,089.2	19.0	29.4	-3.16	-62.0	1,483.2	706.1	680.7	25.40	27.803	
7,400.0	7,348.3	7,353.3	7,183.4	19.3	29.8	-3.20	-62.4	1,505.5	717.9	692.2	25.73	27.896	
7,500.0	7,439.5	7,458.3	7,285.1	19.5	30.2	-3.24	-62.8	1,529.5	730.5	704.2	26.06	27.989	
7,600.0	7,522.5	7,570.5	7,389.7	19.8	30.7	-3.28	-63.2	1,554.1	743.3	716.0	26.39	28.082	
7,700.0	7,594.8	7,690.6	7,492.9	20.2	31.2	-3.32	-63.6	1,578.2	756.6	727.1	26.72	28.175	
7,800.0	7,654.3	7,819.2	7,588.2	20.6	31.7	-3.36	-64.0	1,600.3	766.5	736.7	27.05	28.268	
7,900.0	7,699.1	7,955.7	7,667.0	21.1	32.3	-3.40	-64.4	1,618.4	775.2	744.0	27.38	28.361	
8,000.0	7,727.9	8,098.4	7,720.0	21.8	32.9	-3.44	-64.8	1,630.2	780.9	748.4	27.71	28.454	
8,100.0	7,739.7	8,244.1	7,739.9	22.6	33.7	-3.48	-65.2	1,634.2	783.0	749.3	28.04	28.547	
8,200.0	7,740.0	8,346.6	7,740.0	23.4	34.3	-3.52	-65.6	1,633.7	783.4	747.4	28.37	28.640	
8,300.0	7,740.0	8,446.6	7,740.0	24.4	34.9	-3.56	-66.0	1,633.2	783.7	745.2	28.70	28.733	
8,400.0	7,740.0	8,546.6	7,740.0	25.4	35.6	-3.60	-66.4	1,632.6	784.1	743.0	29.03	28.826	
8,500.0	7,740.0	8,646.6	7,740.0	26.5	36.4	-3.64	-66.8	1,632.1	784.4	740.6	29.36	28.919	
8,600.0	7,740.0	8,746.6	7,740.0	27.7	37.3	-3.68	-67.2	1,631.6	784.7	738.1	29.69	29.012	
8,700.0	7,740.0	8,846.6	7,740.0	28.9	38.2	-3.72	-67.6	1,631.1	785.1	735.5	29.99	29.105	
8,800.0	7,740.0	8,946.6	7,740.0	30.2	39.2	-3.76	-68.0	1,630.5	785.4	732.8	30.32	29.198	
8,900.0	7,740.0	9,046.6	7,740.0	31.6	40.2	-3.80	-68.4	1,630.0	785.8	730.1	30.65	29.291	
9,000.0	7,740.0	9,146.6	7,740.0	32.9	41.3	-3.84	-68.8	1,629.5	786.1	727.4	30.98	29.384	
9,100.0	7,740.0	9,246.6	7,740.0	34.4	42.4	-3.88	-69.2	1,629.0	786.5	724.6	31.31	29.477	
9,200.0	7,740.0	9,346.6	7,740.0	35.8	43.6	-3.92	-69.6	1,628.4	786.8	721.7	31.64	29.570	
9,300.0	7,740.0	9,446.6	7,740.0	37.3	44.8	-3.96	-70.0	1,627.9	787.2	718.8	31.97	29.663	
9,400.0	7,740.0	9,546.6	7,740.0	38.8	46.0	-4.00	-70.4	1,627.4	787.5	715.9	32.30	29.756	
9,500.0	7,740.0	9,646.6	7,740.0	40.3	47.3	-4.04	-70.8	1,626.9	787.9	713.0	32.63	29.849	
9,600.0	7,740.0	9,746.6	7,740.0	41.8	48.6	-4.08	-71.2	1,626.3	788.2	710.1	32.96	29.942	
9,700.0	7,740.0	9,846.6	7,740.0	43.3	50.0	-4.12	-71.6	1,625.8	788.6	707.1	33.29	30.035	
9,800.0	7,740.0	9,946.6	7,740.0	44.9	51.3	-4.16	-72.0	1,625.3	788.9	704.1	33.62	30.128	
9,900.0	7,740.0	10,046.6	7,740.0	46.5	52.7	-4.20	-72.4	1,624.8	789.3	701.1	33.95	30.221	
10,000.0	7,740.0	10,146.6	7,740.0	48.1	54.1	-4.24	-72.8	1,624.3	789.6	698.1	34.28	30.314	
10,100.0	7,740.0	10,246.6	7,740.0	49.7	55.5	-4.28	-73.2	1,623.7	790.0	695.1	34.61	30.407	
10,200.0	7,740.0	10,346.6	7,740.0	51.3	57.0	-4.32	-73.6	1,623.2	790.3	692.1	34.94	30.500	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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	
10,300.0	7,740.0	10,446.6	7,740.0	52.9	58.4	90.00	2,705.6	1,622.7	790.7	689.1	101.62	7.781	
10,400.0	7,740.0	10,546.6	7,740.0	54.5	59.9	90.00	2,805.6	1,622.2	791.0	686.0	105.01	7.533	
10,500.0	7,740.0	10,646.6	7,740.0	56.2	61.4	90.00	2,905.6	1,621.6	791.4	683.0	108.41	7.300	
10,600.0	7,740.0	10,746.6	7,740.0	57.8	62.9	90.00	3,005.6	1,621.1	791.7	679.9	111.82	7.081	
10,700.0	7,740.0	10,846.6	7,740.0	59.5	64.4	90.00	3,105.6	1,620.6	792.1	676.9	115.23	6.874	
10,800.0	7,740.0	10,946.6	7,740.0	61.1	65.9	90.00	3,205.6	1,620.1	792.4	673.8	118.65	6.679	
10,900.0	7,740.0	11,046.6	7,740.0	62.8	67.5	90.00	3,305.6	1,619.5	792.8	670.7	122.07	6.495	
11,000.0	7,740.0	11,146.6	7,740.0	64.4	69.0	90.00	3,405.6	1,619.0	793.1	667.6	125.50	6.320	
11,100.0	7,740.0	11,246.6	7,740.0	66.1	70.6	90.00	3,505.6	1,618.5	793.5	664.5	128.93	6.154	
11,200.0	7,740.0	11,346.6	7,740.0	67.8	72.2	90.00	3,605.6	1,618.0	793.8	661.5	132.36	5.997	
11,300.0	7,740.0	11,446.6	7,740.0	69.5	73.7	90.00	3,705.6	1,617.4	794.2	658.4	135.80	5.848	
11,400.0	7,740.0	11,546.6	7,740.0	71.1	75.3	90.00	3,805.6	1,616.9	794.5	655.3	139.25	5.706	
11,500.0	7,740.0	11,646.6	7,740.0	72.8	76.9	90.00	3,905.5	1,616.4	794.0	651.3	142.69	5.564	
11,600.0	7,740.0	11,746.6	7,740.0	74.5	78.5	90.00	4,005.5	1,615.9	791.7	645.6	146.14	5.417	
11,700.0	7,740.0	11,846.5	7,740.0	76.2	80.1	90.00	4,105.5	1,615.4	788.7	639.1	149.59	5.273	
11,800.0	7,740.0	11,946.5	7,740.0	77.9	81.7	90.00	4,205.4	1,614.8	785.8	632.7	153.04	5.134	
11,900.0	7,740.0	12,046.5	7,740.0	79.7	83.4	90.00	4,305.4	1,614.3	782.8	626.3	156.50	5.002	
12,000.0	7,740.0	12,146.4	7,740.0	81.4	85.0	90.00	4,405.3	1,613.8	779.9	619.9	159.96	4.876	
12,100.0	7,740.0	12,246.4	7,740.0	83.1	86.6	90.00	4,505.3	1,613.3	776.9	613.5	163.42	4.754	
12,200.0	7,740.0	12,346.3	7,740.0	84.8	88.3	90.00	4,605.2	1,612.7	774.0	607.1	166.88	4.638	
12,300.0	7,740.0	12,446.3	7,740.0	86.5	89.9	90.00	4,705.2	1,612.2	771.0	600.7	170.34	4.526	
12,400.0	7,740.0	12,546.2	7,740.0	88.2	91.5	90.00	4,805.2	1,611.7	768.1	594.2	173.81	4.419	
12,500.0	7,740.0	12,646.2	7,740.0	89.9	93.2	90.00	4,905.1	1,611.2	765.1	587.8	177.27	4.316	
12,600.0	7,740.0	12,746.1	7,740.0	91.6	94.8	90.00	5,005.1	1,610.6	762.1	581.4	180.74	4.217	
12,700.0	7,740.0	12,846.1	7,740.0	93.4	96.5	90.00	5,105.0	1,610.1	759.2	575.0	184.21	4.121	
12,800.0	7,740.0	12,946.1	7,740.0	95.1	98.1	90.00	5,205.0	1,609.6	756.2	568.5	187.68	4.029	
12,900.0	7,740.0	13,046.0	7,740.0	96.8	99.8	90.00	5,304.9	1,609.1	753.3	562.1	191.16	3.941	
13,000.0	7,740.0	13,146.0	7,740.0	98.5	101.5	90.00	5,404.9	1,608.5	750.3	555.7	194.63	3.855	
13,100.0	7,740.0	13,245.9	7,740.0	100.3	103.1	90.00	5,504.8	1,608.0	747.4	549.3	198.11	3.773	
13,200.0	7,740.0	13,345.9	7,740.0	102.0	104.8	90.00	5,604.8	1,607.5	744.4	542.8	201.58	3.693	
13,300.0	7,740.0	13,445.8	7,740.0	103.7	106.5	90.00	5,704.8	1,607.0	741.5	536.4	205.06	3.616	
13,400.0	7,740.0	13,545.8	7,740.0	105.4	108.2	90.00	5,804.7	1,606.5	738.5	530.0	208.54	3.541	
13,500.0	7,740.0	13,645.8	7,740.0	107.2	109.8	90.00	5,904.7	1,605.9	735.5	523.5	212.02	3.469	
13,600.0	7,740.0	13,745.7	7,740.0	108.9	111.5	90.00	6,004.6	1,605.4	732.6	517.1	215.50	3.400	
13,700.0	7,740.0	13,845.7	7,740.0	110.6	113.2	90.00	6,104.6	1,604.9	729.6	510.7	218.98	3.332	
13,800.0	7,740.0	13,945.6	7,740.0	112.4	114.9	90.00	6,204.5	1,604.4	726.7	504.2	222.46	3.267	
13,900.0	7,740.0	14,045.6	7,740.0	114.1	116.6	90.00	6,304.5	1,603.8	723.7	497.8	225.94	3.203	
14,000.0	7,740.0	14,145.5	7,740.0	115.8	118.3	90.00	6,404.4	1,603.3	720.8	491.3	229.43	3.142	
14,100.0	7,740.0	14,245.5	7,740.0	117.6	119.9	90.00	6,504.4	1,602.8	717.8	484.9	232.91	3.082	
14,200.0	7,740.0	14,345.4	7,740.0	119.3	121.6	90.00	6,604.3	1,602.3	714.9	478.5	236.40	3.024	
14,300.0	7,740.0	14,445.4	7,740.0	121.0	123.3	90.00	6,704.3	1,601.7	711.9	472.0	239.88	2.968	
14,400.0	7,740.0	14,545.4	7,740.0	122.8	125.0	90.00	6,804.3	1,601.2	709.0	465.6	243.37	2.913	
14,500.0	7,740.0	14,645.3	7,740.0	124.5	126.7	90.00	6,904.2	1,600.7	706.0	459.1	246.85	2.860	
14,600.0	7,740.0	14,745.3	7,740.0	126.2	128.4	90.00	7,004.2	1,600.2	703.0	452.7	250.34	2.808	
14,699.3	7,740.0	14,844.6	7,740.0	128.0	130.1	90.00	7,103.5	1,599.7	700.1	446.3	253.81	2.758 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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 (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.93	-0.4	22.4	22.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.93	-0.4	22.4	22.4	22.1	0.30	73.738			
200.0	200.0	200.0	200.0	0.3	0.3	90.93	-0.4	22.4	22.4	21.7	0.65	34.306 CC, ES			
300.0	300.0	299.6	299.6	0.5	0.5	90.96	-0.4	23.3	23.3	22.3	1.00	23.238			
400.0	400.0	399.1	399.1	0.7	0.7	91.05	-0.5	25.8	25.9	24.5	1.35	19.177			
500.0	500.0	498.6	498.5	0.9	0.9	-2.82	-0.6	30.2	29.3	27.6	1.70	17.296			
600.0	600.0	598.0	597.7	1.0	1.1	-2.91	-0.8	36.2	32.8	30.8	2.04	16.053			
700.0	699.9	697.3	696.7	1.2	1.3	-3.08	-1.0	44.0	36.3	33.9	2.39	15.171			
800.0	799.7	796.6	795.5	1.4	1.5	-3.32	-1.3	53.4	39.7	37.0	2.74	14.510			
900.0	899.4	895.9	894.1	1.6	1.8	-3.60	-1.7	64.6	43.1	40.1	3.08	13.997			
1,000.0	998.9	995.0	992.5	1.8	2.0	-3.92	-2.1	77.4	46.6	43.1	3.43	13.585			
1,100.0	1,098.3	1,094.1	1,090.5	2.1	2.3	-4.27	-2.5	92.0	50.0	46.2	3.77	13.247			
1,200.0	1,197.5	1,193.1	1,188.2	2.3	2.6	-4.57	-3.0	108.2	54.3	50.1	4.12	13.176			
1,300.0	1,296.8	1,292.0	1,285.4	2.6	3.0	-4.75	-3.6	126.1	60.3	55.8	4.46	13.505			
1,400.0	1,396.0	1,390.6	1,382.0	2.8	3.4	-4.82	-4.2	145.6	68.0	63.2	4.80	14.148			
1,500.0	1,495.3	1,488.9	1,478.0	3.1	3.8	-4.82	-4.8	166.7	77.4	72.3	5.15	15.043			
1,600.0	1,594.5	1,586.8	1,573.3	3.4	4.2	-4.77	-5.5	189.3	88.5	83.0	5.48	16.142			
1,700.0	1,693.8	1,684.4	1,667.9	3.6	4.6	-4.68	-6.3	213.5	101.3	95.5	5.82	17.410			
1,800.0	1,793.0	1,781.5	1,761.5	3.9	5.1	-4.58	-7.1	239.2	115.9	109.7	6.16	18.819			
1,900.0	1,892.3	1,878.1	1,854.2	4.2	5.6	-4.47	-7.9	266.3	132.0	125.5	6.49	20.348			
2,000.0	1,991.6	1,974.1	1,945.9	4.4	6.2	-4.36	-8.8	294.7	149.9	143.0	6.82	21.979			
2,100.0	2,090.8	2,070.0	2,037.0	4.7	6.7	-4.25	-9.7	324.7	169.3	162.2	7.15	23.686			
2,200.0	2,190.1	2,168.0	2,129.8	5.0	7.3	-4.15	-10.7	355.8	189.3	181.9	7.50	25.262			
2,300.0	2,289.3	2,265.9	2,222.7	5.3	7.9	-4.08	-11.7	387.0	209.4	201.6	7.84	26.699			
2,400.0	2,388.6	2,363.9	2,315.6	5.5	8.5	-4.01	-12.6	418.2	229.4	221.3	8.19	28.014			
2,500.0	2,487.8	2,461.9	2,408.5	5.8	9.0	-3.96	-13.6	449.3	249.5	241.0	8.54	29.222			
2,600.0	2,587.1	2,559.8	2,501.3	6.1	9.6	-3.91	-14.6	480.5	269.5	260.7	8.89	30.336			
2,700.0	2,686.3	2,657.8	2,594.2	6.4	10.2	-3.87	-15.5	511.7	289.6	280.4	9.23	31.366			
2,800.0	2,785.6	2,755.8	2,687.1	6.6	10.8	-3.84	-16.5	542.8	309.6	300.1	9.58	32.322			
2,900.0	2,884.8	2,853.7	2,780.0	6.9	11.4	-3.81	-17.5	574.0	329.7	319.8	9.93	33.211			
3,000.0	2,984.1	2,951.7	2,872.9	7.2	12.0	-3.78	-18.4	605.2	349.7	339.5	10.27	34.041			
3,100.0	3,083.4	3,049.7	2,965.7	7.4	12.6	-3.76	-19.4	636.3	369.8	359.2	10.62	34.816			
3,200.0	3,182.6	3,147.7	3,058.6	7.7	13.1	-3.74	-20.4	667.5	389.8	378.9	10.97	35.542			
3,300.0	3,281.9	3,245.6	3,151.5	8.0	13.7	-3.72	-21.4	698.6	409.9	398.6	11.31	36.224			
3,400.0	3,381.1	3,343.6	3,244.4	8.3	14.3	-3.70	-22.3	729.8	429.9	418.3	11.66	36.865			
3,500.0	3,480.4	3,441.6	3,337.2	8.5	14.9	-3.69	-23.3	761.0	450.0	438.0	12.01	37.469			
3,600.0	3,579.6	3,539.5	3,430.1	8.8	15.5	-3.67	-24.3	792.1	470.0	457.7	12.36	38.040			
3,700.0	3,678.9	3,637.5	3,523.0	9.1	16.1	-3.66	-25.2	823.3	490.1	477.4	12.70	38.579			
3,800.0	3,778.1	3,735.5	3,615.9	9.4	16.7	-3.65	-26.2	854.5	510.1	497.1	13.05	39.090			
3,900.0	3,877.4	3,833.4	3,708.7	9.6	17.3	-3.64	-27.2	885.6	530.2	516.8	13.40	39.574			
4,000.0	3,976.7	3,931.4	3,801.6	9.9	17.9	-3.63	-28.1	916.8	550.2	536.5	13.74	40.034			
4,100.0	4,075.9	4,029.4	3,894.5	10.2	18.5	-3.62	-29.1	947.9	570.3	556.2	14.09	40.472			
4,200.0	4,175.2	4,127.3	3,987.4	10.5	19.1	-3.61	-30.1	979.1	590.3	575.9	14.44	40.888			
4,300.0	4,274.4	4,225.3	4,080.2	10.7	19.7	-3.60	-31.0	1,010.3	610.4	595.6	14.78	41.285			
4,400.0	4,373.7	4,323.3	4,173.1	11.0	20.3	-3.59	-32.0	1,041.4	630.4	615.3	15.13	41.664			
4,500.0	4,472.9	4,421.3	4,266.0	11.3	20.8	-3.58	-33.0	1,072.6	650.4	635.0	15.48	42.025			
4,600.0	4,572.2	4,519.2	4,358.9	11.6	21.4	-3.58	-33.9	1,103.8	670.5	654.7	15.82	42.371			
4,700.0	4,671.4	4,617.2	4,451.8	11.8	22.0	-3.57	-34.9	1,134.9	690.5	674.4	16.17	42.703			
4,800.0	4,770.7	4,715.2	4,544.6	12.1	22.6	-3.56	-35.9	1,166.1	710.6	694.1	16.52	43.020			
4,900.0	4,869.9	4,813.1	4,637.5	12.4	23.2	-3.56	-36.8	1,197.2	730.6	713.8	16.86	43.324			
5,000.0	4,969.2	4,911.1	4,730.4	12.7	23.8	-3.55	-37.8	1,228.4	750.7	733.5	17.21	43.616			
5,100.0	5,068.5	5,009.1	4,823.3	12.9	24.4	-3.55	-38.8	1,259.6	770.7	753.2	17.56	43.897			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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: 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	5,167.7	5,107.0	4,916.1	13.2	25.0	-3.54	-39.7	1,290.7	790.8	772.9	17.90	44.166	
5,300.0	5,267.0	5,205.0	5,009.0	13.5	25.6	-3.54	-40.7	1,321.9	810.8	792.6	18.25	44.426	
5,400.0	5,366.2	5,303.0	5,101.9	13.8	26.2	-3.53	-41.7	1,353.1	830.9	812.3	18.60	44.676	
5,500.0	5,465.5	5,401.0	5,194.8	14.0	26.8	-3.53	-42.6	1,384.2	850.9	832.0	18.94	44.916	
5,600.0	5,564.7	5,498.9	5,287.6	14.3	27.4	-3.52	-43.6	1,415.4	871.0	851.7	19.29	45.148	
5,700.0	5,664.0	5,596.9	5,380.5	14.6	28.0	-3.52	-44.6	1,446.5	891.0	871.4	19.64	45.372	
5,800.0	5,763.2	5,694.9	5,473.4	14.9	28.6	-3.52	-45.5	1,477.7	911.1	891.1	19.98	45.588	
5,900.0	5,862.5	5,792.8	5,566.3	15.2	29.2	-3.51	-46.5	1,508.9	931.1	910.8	20.33	45.797	
6,000.0	5,961.7	5,890.8	5,659.1	15.4	29.8	-3.51	-47.5	1,540.0	951.2	930.5	20.68	45.999	
6,100.0	6,061.0	5,988.8	5,752.0	15.7	30.4	-3.51	-48.4	1,571.2	971.2	950.2	21.02	46.194	
6,200.0	6,160.3	6,086.7	5,844.9	16.0	31.0	-3.50	-49.4	1,602.4	991.3	969.9	21.37	46.383	
6,300.0	6,259.5	6,184.7	5,937.8	16.3	31.5	-3.50	-50.4	1,633.5	1,011.3	989.6	21.72	46.565	
10,200.0	7,740.0	10,345.4	7,500.0	51.3	61.3	77.23	2,703.3	1,891.0	1,089.7	996.1	93.62	11.640	
10,300.0	7,740.0	10,445.0	7,500.0	52.9	62.6	77.13	2,802.5	1,881.4	1,081.2	984.4	96.86	11.163	
10,400.0	7,740.0	10,544.6	7,500.0	54.5	64.0	77.02	2,901.6	1,871.9	1,072.7	972.6	100.11	10.715	
10,500.0	7,740.0	10,644.3	7,500.0	56.2	65.3	76.92	3,000.8	1,862.3	1,064.3	960.9	103.37	10.296	
10,600.0	7,740.0	10,739.4	7,500.0	57.8	66.6	76.82	3,095.5	1,853.3	1,055.8	949.0	106.78	9.888	
10,700.0	7,740.0	10,823.9	7,500.0	59.5	67.8	76.74	3,179.8	1,846.2	1,048.5	937.9	110.56	9.483	
10,800.0	7,740.0	10,908.7	7,500.0	61.1	69.1	76.67	3,264.3	1,840.3	1,042.6	928.2	114.33	9.119	
10,900.0	7,740.0	11,000.0	7,500.0	62.8	70.4	76.62	3,355.5	1,835.3	1,038.1	920.2	117.91	8.805	
11,000.0	7,740.0	11,078.6	7,500.0	64.4	71.6	76.59	3,434.0	1,832.3	1,035.1	913.2	121.87	8.493	
11,100.0	7,740.0	11,163.7	7,500.0	66.1	72.8	76.57	3,519.0	1,830.1	1,033.5	907.9	125.63	8.227	
11,159.4	7,740.0	11,214.2	7,500.0	67.1	73.6	76.57	3,569.6	1,829.5	1,033.3	905.4	127.85	8.082	
11,200.0	7,740.0	11,248.7	7,500.0	67.8	74.1	76.57	3,604.1	1,829.3	1,033.4	904.0	129.37	7.988	
11,300.0	7,740.0	11,346.0	7,500.0	69.5	75.6	76.58	3,701.4	1,829.3	1,034.2	901.4	132.79	7.788	
11,400.0	7,740.0	11,446.0	7,500.0	71.1	77.2	76.59	3,801.4	1,829.3	1,035.0	898.9	136.14	7.603	
11,500.0	7,740.0	11,546.0	7,500.0	72.8	78.7	76.59	3,901.4	1,829.3	1,035.0	895.5	139.48	7.421	
11,600.0	7,740.0	11,646.0	7,500.0	74.5	80.3	76.57	4,001.4	1,829.3	1,033.3	890.5	142.82	7.235	
11,700.0	7,740.0	11,746.0	7,500.0	76.2	81.8	76.53	4,101.3	1,829.3	1,031.0	884.8	146.15	7.054	
11,800.0	7,740.0	11,845.9	7,500.0	77.9	83.4	76.50	4,201.3	1,829.3	1,028.6	879.1	149.48	6.881	
11,900.0	7,740.0	11,945.9	7,500.0	79.7	85.0	76.47	4,301.3	1,829.3	1,026.2	873.4	152.82	6.715	
12,000.0	7,740.0	12,045.9	7,500.0	81.4	86.6	76.44	4,401.3	1,829.3	1,023.9	867.7	156.16	6.557	
12,100.0	7,740.0	12,145.8	7,500.0	83.1	88.2	76.41	4,501.2	1,829.3	1,021.5	862.0	159.50	6.404	
12,200.0	7,740.0	12,245.8	7,500.0	84.8	89.8	76.38	4,601.2	1,829.3	1,019.1	856.3	162.84	6.259	
12,300.0	7,740.0	12,345.8	7,500.0	86.5	91.4	76.34	4,701.2	1,829.3	1,016.8	850.6	166.18	6.119	
12,400.0	7,740.0	12,445.8	7,500.0	88.2	93.0	76.31	4,801.1	1,829.3	1,014.4	844.9	169.52	5.984	
12,500.0	7,740.0	12,545.7	7,500.0	89.9	94.6	76.28	4,901.1	1,829.3	1,012.0	839.2	172.86	5.855	
12,600.0	7,740.0	12,645.7	7,500.0	91.6	96.2	76.25	5,001.1	1,829.3	1,009.7	833.5	176.21	5.730	
12,700.0	7,740.0	12,745.7	7,500.0	93.4	97.9	76.21	5,101.0	1,829.3	1,007.3	827.8	179.55	5.610	
12,800.0	7,740.0	12,845.6	7,500.0	95.1	99.5	76.18	5,201.0	1,829.3	1,005.0	822.1	182.89	5.495	
12,900.0	7,740.0	12,945.6	7,500.0	96.8	101.1	76.15	5,301.0	1,829.3	1,002.6	816.4	186.24	5.383	
13,000.0	7,740.0	13,045.6	7,500.0	98.5	102.8	76.11	5,401.0	1,829.3	1,000.2	810.7	189.58	5.276	
13,100.0	7,740.0	13,145.5	7,500.0	100.3	104.4	76.08	5,500.9	1,829.3	997.9	804.9	192.93	5.172	
13,200.0	7,740.0	13,245.5	7,500.0	102.0	106.1	76.05	5,600.9	1,829.3	995.5	799.2	196.27	5.072	
13,300.0	7,740.0	13,345.5	7,500.0	103.7	107.7	76.01	5,700.9	1,829.3	993.2	793.5	199.62	4.975	
13,400.0	7,740.0	13,445.5	7,500.0	105.4	109.4	75.98	5,800.8	1,829.3	990.8	787.8	202.96	4.882	
13,500.0	7,740.0	13,545.4	7,500.0	107.2	111.0	75.94	5,900.8	1,829.3	988.4	782.1	206.31	4.791	
13,600.0	7,740.0	13,645.4	7,500.0	108.9	112.7	75.91	6,000.8	1,829.3	986.1	776.4	209.65	4.703	
13,700.0	7,740.0	13,745.4	7,500.0	110.6	114.4	75.87	6,100.8	1,829.3	983.7	770.7	213.00	4.619	
13,800.0	7,740.0	13,832.8	7,500.0	112.4	115.8	75.85	6,188.2	1,829.7	981.9	765.2	216.71	4.531	
13,869.1	7,740.0	13,891.2	7,500.0	113.6	116.8	75.85	6,246.6	1,830.8	981.5	762.2	219.31	4.475	
13,900.0	7,740.0	13,917.4	7,500.0	114.1	117.3	75.85	6,272.8	1,831.5	981.6	761.1	220.48	4.452	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	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						
14,000.0	7,740.0	14,000.0	7,500.0	115.8	118.7	75.86	6,355.3	1,834.6	982.9	758.6	224.26	4.383						
14,100.0	7,740.0	14,086.5	7,500.0	117.6	120.1	75.90	6,441.7	1,839.2	985.7	757.8	227.92	4.325						
14,200.0	7,740.0	14,170.9	7,500.0	119.3	121.6	75.95	6,525.9	1,845.1	990.1	758.5	231.59	4.275						
14,300.0	7,740.0	14,255.2	7,500.0	121.0	123.0	76.03	6,609.9	1,852.3	996.1	760.8	235.22	4.235						
14,400.0	7,740.0	14,339.3	7,500.0	122.8	124.5	76.12	6,693.5	1,860.9	1,003.6	764.8	238.81	4.202						
14,500.0	7,740.0	14,423.1	7,500.0	124.5	125.9	76.22	6,776.8	1,870.7	1,012.7	770.3	242.36	4.179						
14,600.0	7,740.0	14,500.0	7,500.0	126.2	127.3	76.33	6,853.0	1,881.0	1,023.4	777.5	245.83	4.163						
14,699.3	7,740.0	14,589.4	7,500.0	128.0	128.9	76.48	6,941.4	1,894.3	1,035.5	786.2	249.29	4.154 SF						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.75	0.4	-82.6	82.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.75	0.4	-82.6	82.6	82.3	0.30	271.876		
200.0	200.0	200.0	200.0	0.3	0.3	-89.75	0.4	-82.6	82.6	81.9	0.65	126.488	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	-89.29	1.0	-83.1	83.1	82.1	1.00	83.054		
400.0	400.0	398.1	398.1	0.7	0.7	-87.96	3.0	-84.7	84.8	83.4	1.35	62.770		
500.0	500.0	497.0	496.9	0.9	0.9	-179.74	6.3	-87.4	88.6	86.9	1.70	51.962		
600.0	600.0	595.6	595.2	1.0	1.1	-177.12	11.0	-91.1	95.4	93.3	2.06	46.287		
700.0	699.9	693.7	693.1	1.2	1.3	-174.33	16.9	-95.9	105.4	103.0	2.42	43.553		
800.0	799.7	791.7	790.6	1.4	1.5	-171.63	24.0	-101.7	118.6	115.9	2.78	42.647		
900.0	899.4	890.4	888.8	1.6	1.7	-169.48	31.5	-107.8	134.1	130.9	3.15	42.624	SF	
1,000.0	998.9	988.8	986.8	1.8	2.0	-167.89	39.0	-113.8	151.3	147.8	3.51	43.123		
1,100.0	1,098.3	1,086.9	1,084.5	2.1	2.2	-166.76	46.5	-119.8	170.4	166.5	3.87	43.968		
1,200.0	1,197.5	1,184.9	1,182.0	2.3	2.4	-165.95	53.9	-125.9	190.2	186.0	4.24	44.864		
1,300.0	1,296.8	1,282.9	1,279.5	2.6	2.7	-165.29	61.4	-131.9	210.2	205.6	4.61	45.614		
1,400.0	1,396.0	1,380.8	1,377.0	2.8	2.9	-164.75	68.8	-137.9	230.1	225.1	4.98	46.250		
1,500.0	1,495.3	1,478.8	1,474.5	3.1	3.1	-164.30	76.3	-143.9	250.1	244.7	5.34	46.795		
1,600.0	1,594.5	1,576.8	1,572.0	3.4	3.4	-163.91	83.7	-149.9	270.0	264.3	5.71	47.266		
1,700.0	1,693.8	1,674.7	1,669.5	3.6	3.6	-163.57	91.1	-156.0	290.0	283.9	6.08	47.677		
1,800.0	1,793.0	1,772.7	1,767.0	3.9	3.8	-163.28	98.6	-162.0	310.0	303.6	6.45	48.039		
1,900.0	1,892.3	1,870.7	1,864.5	4.2	4.1	-163.02	106.0	-168.0	330.0	323.2	6.82	48.360		
2,000.0	1,991.6	1,968.6	1,962.0	4.4	4.3	-162.80	113.5	-174.0	350.0	342.8	7.20	48.646		
2,100.0	2,090.8	2,066.6	2,059.5	4.7	4.5	-162.59	120.9	-180.0	370.0	362.5	7.57	48.902		
2,200.0	2,190.1	2,164.6	2,157.0	5.0	4.8	-162.41	128.4	-186.1	390.0	382.1	7.94	49.133		
2,300.0	2,289.3	2,262.6	2,254.5	5.3	5.0	-162.25	135.8	-192.1	410.1	401.7	8.31	49.343		
2,400.0	2,388.6	2,360.5	2,352.0	5.5	5.3	-162.10	143.3	-198.1	430.1	421.4	8.68	49.533		
2,500.0	2,487.8	2,458.5	2,449.5	5.8	5.5	-161.96	150.7	-204.1	450.1	441.0	9.05	49.707		
2,600.0	2,587.1	2,556.5	2,547.0	6.1	5.7	-161.84	158.2	-210.1	470.1	460.7	9.43	49.867		
2,700.0	2,686.3	2,654.4	2,644.5	6.4	6.0	-161.73	165.6	-216.2	490.1	480.3	9.80	50.014		
2,800.0	2,785.6	2,752.4	2,742.0	6.6	6.2	-161.62	173.1	-222.2	510.2	500.0	10.17	50.150		
2,900.0	2,884.8	2,850.4	2,839.5	6.9	6.4	-161.52	180.5	-228.2	530.2	519.7	10.55	50.275		
3,000.0	2,984.1	2,948.3	2,937.0	7.2	6.7	-161.43	188.0	-234.2	550.2	539.3	10.92	50.392		
3,100.0	3,083.4	3,046.3	3,034.5	7.4	6.9	-161.35	195.4	-240.2	570.3	559.0	11.29	50.500		
3,200.0	3,182.6	3,144.3	3,132.0	7.7	7.2	-161.27	202.8	-246.3	590.3	578.6	11.67	50.602		
3,300.0	3,281.9	3,242.3	3,229.5	8.0	7.4	-161.20	210.3	-252.3	610.3	598.3	12.04	50.696		
3,400.0	3,381.1	3,340.2	3,327.0	8.3	7.6	-161.13	217.7	-258.3	630.4	618.0	12.41	50.785		
3,500.0	3,480.4	3,438.2	3,424.5	8.5	7.9	-161.07	225.2	-264.3	650.4	637.6	12.79	50.869		
3,600.0	3,579.6	3,536.2	3,522.0	8.8	8.1	-161.01	232.6	-270.4	670.4	657.3	13.16	50.947		
3,700.0	3,678.9	3,634.1	3,619.5	9.1	8.4	-160.95	240.1	-276.4	690.5	676.9	13.53	51.021		
3,800.0	3,778.1	3,732.1	3,717.0	9.4	8.6	-160.90	247.5	-282.4	710.5	696.6	13.91	51.091		
3,900.0	3,877.4	3,830.1	3,814.5	9.6	8.8	-160.85	255.0	-288.4	730.6	716.3	14.28	51.157		
4,000.0	3,976.7	3,928.0	3,912.0	9.9	9.1	-160.80	262.4	-294.4	750.6	735.9	14.65	51.219		
4,100.0	4,075.9	4,026.0	4,009.5	10.2	9.3	-160.75	269.9	-300.5	770.6	755.6	15.03	51.278		
4,200.0	4,175.2	4,124.0	4,107.0	10.5	9.6	-160.71	277.3	-306.5	790.7	775.3	15.40	51.335		
4,300.0	4,274.4	4,222.0	4,204.5	10.7	9.8	-160.67	284.8	-312.5	810.7	794.9	15.78	51.388		
4,400.0	4,373.7	4,319.9	4,302.0	11.0	10.0	-160.63	292.2	-318.5	830.7	814.6	16.15	51.439		
4,500.0	4,472.9	4,417.9	4,399.5	11.3	10.3	-160.59	299.6	-324.5	850.8	834.3	16.52	51.487		
4,600.0	4,572.2	4,515.9	4,497.0	11.6	10.5	-160.56	307.1	-330.6	870.8	853.9	16.90	51.534		
4,700.0	4,671.4	4,613.8	4,594.5	11.8	10.7	-160.52	314.5	-336.6	890.9	873.6	17.27	51.578		
4,800.0	4,770.7	4,711.8	4,692.0	12.1	11.0	-160.49	322.0	-342.6	910.9	893.3	17.65	51.620		
4,900.0	4,869.9	4,809.8	4,789.5	12.4	11.2	-160.46	329.4	-348.6	931.0	912.9	18.02	51.661		
5,000.0	4,969.2	4,907.7	4,887.0	12.7	11.5	-160.43	336.9	-354.6	951.0	932.6	18.39	51.699		
5,100.0	5,068.5	5,005.7	4,984.5	12.9	11.7	-160.40	344.3	-360.7	971.0	952.3	18.77	51.737		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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	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	5,167.7	5,103.7	5,082.0	13.2	11.9	-160.38	351.8	-366.7	991.1	971.9	19.14	51.772						
5,300.0	5,267.0	5,201.6	5,179.5	13.5	12.2	-160.35	359.2	-372.7	1,011.1	991.6	19.52	51.807						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.72	0.4	-75.0	75.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.72	0.4	-75.0	75.0	74.7	0.30	246.993	74.872 CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.72	0.4	-75.0	75.0	74.4	0.65	114.911		
300.0	300.0	300.0	300.0	0.5	0.5	-89.72	0.4	-75.0	75.0	74.0	1.00	74.872		
400.0	400.0	399.2	399.1	0.7	0.7	-89.23	1.0	-75.6	75.6	74.2	1.35	55.989		
500.0	500.0	498.2	498.2	0.9	0.9	178.35	3.0	-77.2	78.2	76.5	1.70	45.999		
600.0	600.0	597.1	596.9	1.0	1.0	-179.43	6.3	-80.0	83.7	81.7	2.05	40.829	37.456 SF	
700.0	699.9	695.5	695.2	1.2	1.2	-176.81	10.8	-83.8	92.4	90.0	2.41	38.422		
800.0	799.7	794.7	794.2	1.4	1.4	-174.37	16.1	-88.2	103.7	101.0	2.76	37.540		
900.0	899.4	893.8	893.0	1.6	1.6	-172.51	21.4	-92.7	116.9	113.7	3.12	37.456		
1,000.0	998.9	992.6	991.6	1.8	1.8	-171.14	26.7	-97.1	131.8	128.3	3.48	37.905		
1,100.0	1,098.3	1,091.2	1,089.9	2.1	2.0	-170.15	32.0	-101.5	148.5	144.7	3.84	38.722		
1,200.0	1,197.5	1,189.6	1,188.1	2.3	2.2	-169.44	37.2	-105.9	166.1	161.9	4.19	39.603		
1,300.0	1,296.8	1,289.6	1,287.8	2.6	2.5	-168.68	43.0	-109.9	183.3	178.8	4.56	40.174		
1,400.0	1,396.0	1,389.9	1,387.9	2.8	2.7	-167.61	50.1	-112.6	199.7	194.8	4.94	40.411		
1,500.0	1,495.3	1,489.7	1,487.3	3.1	2.9	-166.33	58.2	-114.1	215.3	210.0	5.32	40.439		
1,600.0	1,594.5	1,588.4	1,585.6	3.4	3.1	-165.16	66.4	-115.3	230.9	225.2	5.71	40.450		
1,700.0	1,693.8	1,687.1	1,684.0	3.6	3.3	-164.14	74.6	-116.6	246.5	240.4	6.09	40.458		
1,800.0	1,793.0	1,785.8	1,782.3	3.9	3.5	-163.24	82.8	-117.8	262.2	255.7	6.48	40.461		
1,900.0	1,892.3	1,884.4	1,880.6	4.2	3.7	-162.45	91.1	-119.0	278.0	271.1	6.87	40.462		
2,000.0	1,991.6	1,983.1	1,979.0	4.4	4.0	-161.74	99.3	-120.3	293.8	286.5	7.26	40.460		
2,100.0	2,090.8	2,081.8	2,077.3	4.7	4.2	-161.10	107.5	-121.5	309.6	302.0	7.65	40.456		
2,200.0	2,190.1	2,180.5	2,175.6	5.0	4.4	-160.52	115.7	-122.7	325.5	317.5	8.05	40.450		
2,300.0	2,289.3	2,279.2	2,274.0	5.3	4.6	-160.00	124.0	-124.0	341.4	333.0	8.44	40.443		
2,400.0	2,388.6	2,377.8	2,372.3	5.5	4.8	-159.52	132.2	-125.2	357.4	348.5	8.84	40.435		
2,500.0	2,487.8	2,476.5	2,470.6	5.8	5.1	-159.09	140.4	-126.4	373.3	364.1	9.23	40.427		
2,600.0	2,587.1	2,575.2	2,568.9	6.1	5.3	-158.69	148.7	-127.7	389.3	379.7	9.63	40.418		
2,700.0	2,686.3	2,673.9	2,667.3	6.4	5.5	-158.32	156.9	-128.9	405.3	395.3	10.03	40.409		
2,800.0	2,785.6	2,772.6	2,765.6	6.6	5.7	-157.98	165.1	-130.1	421.3	410.9	10.43	40.399		
2,900.0	2,884.8	2,871.2	2,863.9	6.9	6.0	-157.67	173.3	-131.4	437.3	426.5	10.83	40.389		
3,000.0	2,984.1	2,969.9	2,962.3	7.2	6.2	-157.37	181.6	-132.6	453.3	442.1	11.23	40.380		
3,100.0	3,083.4	3,068.6	3,060.6	7.4	6.4	-157.10	189.8	-133.8	469.4	457.8	11.63	40.370		
3,200.0	3,182.6	3,167.3	3,158.9	7.7	6.6	-156.84	198.0	-135.1	485.4	473.4	12.03	40.360		
3,300.0	3,281.9	3,266.0	3,257.2	8.0	6.8	-156.61	206.3	-136.3	501.5	489.1	12.43	40.351		
3,400.0	3,381.1	3,364.6	3,355.6	8.3	7.1	-156.38	214.5	-137.5	517.6	504.7	12.83	40.342		
3,500.0	3,480.4	3,463.3	3,453.9	8.5	7.3	-156.17	222.7	-138.8	533.7	520.4	13.23	40.332		
3,600.0	3,579.6	3,562.0	3,552.2	8.8	7.5	-155.97	230.9	-140.0	549.7	536.1	13.63	40.324		
3,700.0	3,678.9	3,660.7	3,650.6	9.1	7.7	-155.79	239.2	-141.2	565.8	551.8	14.04	40.315		
3,800.0	3,778.1	3,759.4	3,748.9	9.4	8.0	-155.61	247.4	-142.5	581.9	567.5	14.44	40.306		
3,900.0	3,877.4	3,858.0	3,847.2	9.6	8.2	-155.44	255.6	-143.7	598.0	583.2	14.84	40.298		
4,000.0	3,976.7	3,956.7	3,945.6	9.9	8.4	-155.29	263.8	-144.9	614.1	598.9	15.24	40.290		
4,100.0	4,075.9	4,055.4	4,043.9	10.2	8.6	-155.14	272.1	-146.2	630.2	614.6	15.65	40.282		
4,200.0	4,175.2	4,154.1	4,142.2	10.5	8.9	-154.99	280.3	-147.4	646.4	630.3	16.05	40.274		
4,300.0	4,274.4	4,252.8	4,240.5	10.7	9.1	-154.86	288.5	-148.6	662.5	646.0	16.45	40.266		
4,400.0	4,373.7	4,351.5	4,338.9	11.0	9.3	-154.73	296.8	-149.9	678.6	661.7	16.86	40.259		
4,500.0	4,472.9	4,450.1	4,437.2	11.3	9.5	-154.60	305.0	-151.1	694.7	677.5	17.26	40.252		
4,600.0	4,572.2	4,548.8	4,535.5	11.6	9.8	-154.49	313.2	-152.3	710.8	693.2	17.66	40.245		
4,700.0	4,671.4	4,647.5	4,633.9	11.8	10.0	-154.37	321.4	-153.6	727.0	708.9	18.07	40.238		
4,800.0	4,770.7	4,746.2	4,732.2	12.1	10.2	-154.27	329.7	-154.8	743.1	724.6	18.47	40.232		
4,900.0	4,869.9	4,844.9	4,830.5	12.4	10.4	-154.16	337.9	-156.0	759.2	740.4	18.87	40.225		
5,000.0	4,969.2	4,943.5	4,928.8	12.7	10.7	-154.06	346.1	-157.3	775.4	756.1	19.28	40.219		
5,100.0	5,068.5	5,042.2	5,027.2	12.9	10.9	-153.97	354.4	-158.5	791.5	771.8	19.68	40.213		

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

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Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,200.0	5,167.7	5,140.9	5,125.5	13.2	11.1	-153.88	362.6	-159.7	807.7	787.6	20.09	40.207		
5,300.0	5,267.0	5,239.6	5,223.8	13.5	11.3	-153.79	370.8	-160.9	823.8	803.3	20.49	40.201		
5,400.0	5,366.2	5,338.3	5,322.2	13.8	11.5	-153.71	379.0	-162.2	839.9	819.1	20.90	40.196		
5,500.0	5,465.5	5,436.9	5,420.5	14.0	11.8	-153.63	387.3	-163.4	856.1	834.8	21.30	40.190		
5,600.0	5,564.7	5,535.6	5,518.8	14.3	12.0	-153.55	395.5	-164.6	872.2	850.5	21.71	40.185		
5,700.0	5,664.0	5,634.3	5,617.2	14.6	12.2	-153.47	403.7	-165.9	888.4	866.3	22.11	40.180		
5,800.0	5,763.2	5,733.0	5,715.5	14.9	12.4	-153.40	411.9	-167.1	904.5	882.0	22.52	40.175		
5,900.0	5,862.5	5,831.7	5,813.8	15.2	12.7	-153.33	420.2	-168.3	920.7	897.8	22.92	40.170		
6,000.0	5,961.7	5,930.3	5,912.1	15.4	12.9	-153.26	428.4	-169.6	936.9	913.5	23.33	40.165		
6,100.0	6,061.0	6,029.0	6,010.5	15.7	13.1	-153.20	436.6	-170.8	953.0	929.3	23.73	40.160		
6,200.0	6,160.3	6,127.7	6,108.8	16.0	13.3	-153.14	444.9	-172.0	969.2	945.0	24.14	40.156		
6,300.0	6,259.5	6,226.4	6,207.1	16.3	13.6	-153.08	453.1	-173.3	985.3	960.8	24.54	40.151		
6,400.0	6,358.8	6,325.1	6,305.5	16.5	13.8	-153.02	461.3	-174.5	1,001.5	976.5	24.95	40.147		
6,500.0	6,458.0	6,423.7	6,403.8	16.8	14.0	-152.96	469.5	-175.7	1,017.6	992.3	25.35	40.143		
7,300.0	7,251.8	7,823.0	7,499.4	19.0	13.8	-130.72	-35.8	-189.5	1,016.4	990.4	26.06	38.998		
7,400.0	7,348.3	7,797.3	7,497.7	19.3	13.7	-110.68	-10.1	-189.5	1,008.5	982.2	26.39	38.211		
7,437.3	7,383.1	7,784.9	7,496.4	19.4	13.7	-106.79	2.1	-189.4	1,007.9	981.4	26.49	38.049		
7,500.0	7,439.5	7,762.1	7,493.5	19.5	13.7	-101.75	24.7	-189.4	1,009.6	983.0	26.60	37.958		
7,600.0	7,522.5	7,722.2	7,486.1	19.8	13.6	-95.45	64.0	-189.3	1,018.3	991.6	26.72	38.108		

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Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
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Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-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	-89.69	0.4	-67.5	67.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.69	0.4	-67.5	67.5	67.1	0.30	222.110		
200.0	200.0	200.0	200.0	0.3	0.3	-89.69	0.4	-67.5	67.5	66.8	0.65	103.334		
300.0	300.0	300.0	300.0	0.5	0.5	-89.69	0.4	-67.5	67.5	66.5	1.00	67.329		
400.0	400.0	400.0	400.0	0.7	0.7	-89.69	0.4	-67.5	67.5	66.1	1.35	49.932 CC, ES		
500.0	500.0	500.5	500.5	0.9	0.9	177.14	1.2	-67.1	67.9	66.2	1.70	39.937		
600.0	600.0	601.0	600.9	1.0	1.0	179.21	3.5	-65.9	69.5	67.4	2.05	33.823		
700.0	699.9	701.3	701.2	1.2	1.2	-177.53	7.5	-63.9	72.2	69.8	2.41	29.935		
800.0	799.7	801.5	801.1	1.4	1.4	-173.39	13.0	-61.2	76.4	73.6	2.78	27.477		
900.0	899.4	901.4	900.8	1.6	1.6	-168.73	20.0	-57.7	82.3	79.2	3.17	26.013		
1,000.0	998.9	1,000.9	999.9	1.8	1.8	-164.48	27.8	-53.9	90.3	86.7	3.56	25.373		
1,100.0	1,098.3	1,100.2	1,098.8	2.1	2.0	-161.24	35.5	-50.0	100.3	96.3	3.96	25.324		
1,200.0	1,197.5	1,199.5	1,197.7	2.3	2.3	-158.78	43.3	-46.2	111.4	107.0	4.37	25.487		
1,300.0	1,296.8	1,298.8	1,296.7	2.6	2.5	-156.77	51.0	-42.4	122.6	117.8	4.78	25.626		
1,400.0	1,396.0	1,398.1	1,395.6	2.8	2.7	-155.09	58.8	-38.5	134.0	128.8	5.20	25.741		
1,500.0	1,495.3	1,497.4	1,494.5	3.1	2.9	-153.68	66.6	-34.7	145.4	139.8	5.63	25.838		
1,600.0	1,594.5	1,596.7	1,593.4	3.4	3.2	-152.48	74.3	-30.8	157.0	150.9	6.06	25.919		
1,700.0	1,693.8	1,695.9	1,692.3	3.6	3.4	-151.44	82.1	-27.0	168.5	162.1	6.49	25.987		
1,800.0	1,793.0	1,795.2	1,791.2	3.9	3.6	-150.53	89.8	-23.2	180.2	173.3	6.92	26.045		
1,900.0	1,892.3	1,894.5	1,890.1	4.2	3.8	-149.73	97.6	-19.3	191.9	184.5	7.35	26.095		
2,000.0	1,991.6	1,993.8	1,989.0	4.4	4.1	-149.03	105.3	-15.5	203.6	195.8	7.79	26.137		
2,100.0	2,090.8	2,093.1	2,087.9	4.7	4.3	-148.40	113.1	-11.6	215.3	207.1	8.23	26.174		
2,200.0	2,190.1	2,192.4	2,186.8	5.0	4.5	-147.84	120.8	-7.8	227.1	218.4	8.66	26.206		
2,300.0	2,289.3	2,291.6	2,285.7	5.3	4.7	-147.33	128.6	-4.0	238.8	229.7	9.10	26.234		
2,400.0	2,388.6	2,390.9	2,384.6	5.5	5.0	-146.87	136.3	-0.1	250.6	241.1	9.54	26.258		
2,500.0	2,487.8	2,490.2	2,483.5	5.8	5.2	-146.45	144.1	3.7	262.4	252.4	9.99	26.280		
2,600.0	2,587.1	2,589.5	2,582.4	6.1	5.4	-146.07	151.8	7.6	274.3	263.8	10.43	26.300		
2,700.0	2,686.3	2,688.8	2,681.3	6.4	5.6	-145.72	159.6	11.4	286.1	275.2	10.87	26.317		
2,800.0	2,785.6	2,788.0	2,780.2	6.6	5.9	-145.40	167.3	15.2	297.9	286.6	11.31	26.333		
2,900.0	2,884.8	2,887.3	2,879.1	6.9	6.1	-145.10	175.1	19.1	309.8	298.0	11.76	26.347		
3,000.0	2,984.1	2,986.6	2,978.0	7.2	6.3	-144.82	182.8	22.9	321.6	309.4	12.20	26.360		
3,100.0	3,083.4	3,085.9	3,076.9	7.4	6.6	-144.57	190.6	26.8	333.5	320.9	12.65	26.372		
3,200.0	3,182.6	3,185.2	3,175.9	7.7	6.8	-144.33	198.4	30.6	345.4	332.3	13.09	26.382		
3,300.0	3,281.9	3,284.5	3,274.8	8.0	7.0	-144.11	206.1	34.4	357.3	343.7	13.54	26.392		
3,400.0	3,381.1	3,383.7	3,373.7	8.3	7.3	-143.90	213.9	38.3	369.1	355.2	13.98	26.401		
3,500.0	3,480.4	3,483.0	3,472.6	8.5	7.5	-143.70	221.6	42.1	381.0	366.6	14.43	26.409		
3,600.0	3,579.6	3,582.3	3,571.5	8.8	7.7	-143.52	229.4	45.9	392.9	378.0	14.87	26.417		
3,700.0	3,678.9	3,681.6	3,670.4	9.1	7.9	-143.35	237.1	49.8	404.8	389.5	15.32	26.424		
3,800.0	3,778.1	3,780.9	3,769.3	9.4	8.2	-143.18	244.9	53.6	416.7	400.9	15.77	26.430		
3,900.0	3,877.4	3,880.2	3,868.2	9.6	8.4	-143.03	252.6	57.5	428.6	412.4	16.21	26.436		
4,000.0	3,976.7	3,979.4	3,967.1	9.9	8.6	-142.88	260.4	61.3	440.5	423.8	16.66	26.442		
4,100.0	4,075.9	4,078.7	4,066.0	10.2	8.9	-142.74	268.1	65.1	452.4	435.3	17.11	26.447		
4,200.0	4,175.2	4,178.0	4,164.9	10.5	9.1	-142.61	275.9	69.0	464.3	446.8	17.55	26.452		
4,300.0	4,274.4	4,277.3	4,263.8	10.7	9.3	-142.49	283.6	72.8	476.2	458.2	18.00	26.457		
4,400.0	4,373.7	4,376.6	4,362.7	11.0	9.5	-142.37	291.4	76.7	488.1	469.7	18.45	26.461		
4,500.0	4,472.9	4,475.9	4,461.6	11.3	9.8	-142.26	299.1	80.5	500.1	481.2	18.90	26.465		
4,600.0	4,572.2	4,575.1	4,560.5	11.6	10.0	-142.15	306.9	84.3	512.0	492.6	19.34	26.469		
4,700.0	4,671.4	4,674.4	4,659.4	11.8	10.2	-142.05	314.7	88.2	523.9	504.1	19.79	26.473		
4,800.0	4,770.7	4,773.7	4,758.3	12.1	10.5	-141.95	322.4	92.0	535.8	515.6	20.24	26.476		
4,900.0	4,869.9	4,873.0	4,857.2	12.4	10.7	-141.86	330.2	95.9	547.7	527.1	20.69	26.480		
5,000.0	4,969.2	4,972.3	4,956.1	12.7	10.9	-141.77	337.9	99.7	559.7	538.5	21.13	26.483		
5,100.0	5,068.5	5,071.6	5,055.1	12.9	11.1	-141.68	345.7	103.5	571.6	550.0	21.58	26.486		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-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		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	5,167.7	5,170.8	5,154.0	13.2	11.4	-141.60	353.4	107.4	583.5	561.5	22.03	26.488			
5,300.0	5,267.0	5,270.1	5,252.9	13.5	11.6	-141.52	361.2	111.2	595.4	573.0	22.48	26.491			
5,400.0	5,366.2	5,369.4	5,351.8	13.8	11.8	-141.44	368.9	115.1	607.4	584.4	22.93	26.493			
5,500.0	5,465.5	5,468.7	5,450.7	14.0	12.1	-141.37	376.7	118.9	619.3	595.9	23.37	26.496			
5,600.0	5,564.7	5,568.0	5,549.6	14.3	12.3	-141.30	384.4	122.7	631.2	607.4	23.82	26.498			
5,700.0	5,664.0	5,667.3	5,648.5	14.6	12.5	-141.23	392.2	126.6	643.2	618.9	24.27	26.500			
5,800.0	5,763.2	5,766.5	5,747.4	14.9	12.8	-141.17	399.9	130.4	655.1	630.4	24.72	26.502			
5,900.0	5,862.5	5,865.8	5,846.3	15.2	13.0	-141.10	407.7	134.3	667.0	641.9	25.17	26.504			
6,000.0	5,961.7	5,965.1	5,945.2	15.4	13.2	-141.04	415.4	138.1	679.0	653.3	25.61	26.506			
6,100.0	6,061.0	6,064.4	6,044.1	15.7	13.4	-140.98	423.2	141.9	690.9	664.8	26.06	26.508			
6,200.0	6,160.3	6,163.7	6,143.0	16.0	13.7	-140.93	430.9	145.8	702.8	676.3	26.51	26.510			
6,300.0	6,259.5	6,263.0	6,241.9	16.3	13.9	-140.87	438.7	149.6	714.8	687.8	26.96	26.512			
6,400.0	6,358.8	6,362.2	6,340.8	16.5	14.1	-140.82	446.5	153.4	726.7	699.3	27.41	26.513			
6,500.0	6,458.0	6,461.5	6,439.7	16.8	14.4	-140.77	454.2	157.3	738.6	710.8	27.86	26.515			
6,600.0	6,557.3	6,560.8	6,538.6	17.1	14.6	-140.72	462.0	161.1	750.6	722.3	28.31	26.516			
6,700.0	6,656.5	6,660.1	6,637.5	17.4	14.8	-140.67	469.7	165.0	762.5	733.8	28.75	26.518			
6,800.0	6,755.8	6,759.4	6,736.4	17.6	15.1	-140.62	477.5	168.8	774.4	745.2	29.20	26.519			
6,900.0	6,855.0	6,858.6	6,835.3	17.9	15.3	-140.58	485.2	172.6	786.4	756.7	29.65	26.520			
7,000.0	6,954.3	6,957.9	6,934.3	18.2	15.5	-140.53	493.0	176.5	798.3	768.2	30.10	26.522			
7,100.0	7,053.6	7,057.2	7,033.2	18.5	15.7	-140.49	500.7	180.3	810.3	779.7	30.55	26.523			
7,200.0	7,152.8	7,156.4	7,131.6	18.7	15.4	-140.46	508.4	184.1	822.2	791.6	31.00	26.524			
7,300.0	7,251.8	7,255.4	7,228.9	19.0	14.8	-129.56	20.1	207.5	763.9	740.2	23.70	32.239			
7,400.0	7,348.3	7,351.9	7,325.0	19.3	14.7	-113.78	42.9	207.4	714.8	689.9	24.87	28.735			
7,500.0	7,439.5	7,443.1	7,416.1	19.5	14.7	-107.43	82.5	207.0	676.8	650.7	26.04	25.992			
7,600.0	7,522.5	7,526.1	7,499.9	19.8	14.7	-102.87	125.6	206.5	651.3	624.3	27.04	24.085			
7,700.0	7,594.8	7,598.4	7,568.6	20.2	14.7	-98.34	169.3	205.8	638.8	611.0	27.77	23.004			
7,752.9	7,628.0	7,631.6	7,601.8	20.4	14.8	-95.79	192.2	205.4	637.2	609.1	28.04	22.720			
7,800.0	7,654.3	7,657.9	7,628.1	20.6	14.8	-93.41	212.3	205.0	638.4	610.2	28.17	22.664 SF			
7,900.0	7,699.1	7,702.7	7,674.3	21.1	14.9	-88.05	253.7	204.0	648.4	620.1	28.28	22.925			
8,000.0	7,727.9	7,731.5	7,703.5	21.8	15.0	-82.46	293.2	202.9	666.3	638.1	28.22	23.615			
8,100.0	7,739.7	7,743.3	7,715.5	22.6	15.2	-76.95	330.2	201.7	689.6	661.5	28.09	24.555			
8,200.0	7,740.0	7,743.6	7,716.0	23.4	15.3	-73.77	362.6	200.4	718.0	690.1	27.92	25.715			
8,300.0	7,740.0	7,743.6	7,716.0	24.4	15.5	-71.38	388.0	199.2	754.7	727.0	27.69	27.255			
8,400.0	7,740.0	7,743.6	7,716.0	25.4	15.6	-69.30	407.9	198.2	799.4	771.9	27.45	29.121			
8,500.0	7,740.0	7,743.6	7,716.0	26.5	15.7	-66.90	428.7	196.9	851.6	824.3	27.22	31.287			
8,600.0	7,740.0	7,743.6	7,716.0	27.7	15.7	-65.96	436.2	196.4	910.0	882.9	27.12	33.554			
8,700.0	7,740.0	7,743.6	7,716.0	28.9	15.8	-63.78	452.4	195.2	974.4	947.4	26.98	36.112			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #3												Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	0.4	-60.2	60.2				
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.4	-60.2	60.2	59.9	0.30	198.148	
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.4	-60.2	60.2	59.5	0.65	92.187	
300.0	300.0	300.0	300.0	0.5	0.5	-89.65	0.4	-60.2	60.2	59.2	1.00	60.066	
400.0	400.0	400.0	400.0	0.7	0.7	-89.65	0.4	-60.2	60.2	58.8	1.35	44.545 CC, ES	
500.0	500.0	500.0	500.0	0.9	0.8	176.51	0.4	-60.2	61.0	59.3	1.70	35.911	
600.0	600.0	600.7	600.6	1.0	1.0	177.28	1.0	-59.6	63.1	61.1	2.05	30.780	
700.0	699.9	701.3	701.2	1.2	1.2	179.27	3.1	-57.9	65.9	63.5	2.40	27.419	
800.0	799.7	801.8	801.7	1.4	1.4	-177.73	6.5	-55.1	69.5	66.7	2.76	25.183	
900.0	899.4	902.3	901.9	1.6	1.6	-173.98	11.3	-51.2	74.1	71.0	3.12	23.723	
1,000.0	998.9	1,002.6	1,001.9	1.8	1.8	-169.75	17.4	-46.2	80.0	76.5	3.50	22.825	
1,100.0	1,098.3	1,102.7	1,101.6	2.1	2.0	-165.32	24.8	-40.0	87.2	83.3	3.90	22.342	
1,200.0	1,197.5	1,202.6	1,200.8	2.3	2.2	-160.77	33.6	-32.8	95.3	90.9	4.33	21.973	
1,300.0	1,296.8	1,302.0	1,299.5	2.6	2.5	-156.51	42.9	-25.1	103.6	98.8	4.78	21.650	
1,400.0	1,396.0	1,401.3	1,398.1	2.8	2.7	-152.90	52.3	-17.4	112.4	107.2	5.25	21.414	
1,500.0	1,495.3	1,500.7	1,496.7	3.1	3.0	-149.82	61.7	-9.7	121.6	115.9	5.73	21.241	
1,600.0	1,594.5	1,600.1	1,595.4	3.4	3.3	-147.18	71.0	-2.0	131.1	124.9	6.21	21.113	
1,700.0	1,693.8	1,699.5	1,694.0	3.6	3.5	-144.90	80.4	5.7	140.9	134.2	6.70	21.019	
1,800.0	1,793.0	1,798.9	1,792.6	3.9	3.8	-142.92	89.8	13.5	150.8	143.6	7.20	20.950	
1,900.0	1,892.3	1,898.2	1,891.3	4.2	4.0	-141.18	99.1	21.2	160.9	153.2	7.70	20.900	
2,000.0	1,991.6	1,997.6	1,989.9	4.4	4.3	-139.65	108.5	28.9	171.1	162.9	8.20	20.865	
2,100.0	2,090.8	2,097.0	2,088.5	4.7	4.6	-138.29	117.9	36.6	181.5	172.7	8.71	20.840	
2,200.0	2,190.1	2,196.4	2,187.2	5.0	4.8	-137.08	127.2	44.3	191.9	182.7	9.21	20.825	
2,300.0	2,289.3	2,295.7	2,285.8	5.3	5.1	-136.00	136.6	52.0	202.4	192.6	9.72	20.815	
2,400.0	2,388.6	2,395.1	2,384.4	5.5	5.4	-135.02	146.0	59.7	212.9	202.7	10.23	20.811	
2,500.0	2,487.8	2,494.5	2,483.1	5.8	5.6	-134.13	155.3	67.5	223.5	212.8	10.74	20.811	
2,600.0	2,587.1	2,593.9	2,581.7	6.1	5.9	-133.33	164.7	75.2	234.2	223.0	11.25	20.814	
2,700.0	2,686.3	2,693.3	2,680.3	6.4	6.2	-132.59	174.1	82.9	244.9	233.2	11.76	20.819	
2,800.0	2,785.6	2,792.6	2,779.0	6.6	6.5	-131.92	183.4	90.6	255.7	243.4	12.28	20.826	
2,900.0	2,884.8	2,892.0	2,877.6	6.9	6.7	-131.30	192.8	98.3	266.4	253.7	12.79	20.834	
3,000.0	2,984.1	2,991.4	2,976.2	7.2	7.0	-130.72	202.2	106.0	277.2	263.9	13.30	20.844	
3,100.0	3,083.4	3,090.8	3,074.9	7.4	7.3	-130.20	211.5	113.7	288.1	274.3	13.81	20.854	
3,200.0	3,182.6	3,190.1	3,173.5	7.7	7.5	-129.71	220.9	121.5	298.9	284.6	14.33	20.865	
3,300.0	3,281.9	3,289.5	3,272.2	8.0	7.8	-129.25	230.3	129.2	309.8	295.0	14.84	20.876	
3,400.0	3,381.1	3,388.9	3,370.8	8.3	8.1	-128.83	239.6	136.9	320.7	305.3	15.35	20.887	
3,500.0	3,480.4	3,488.3	3,469.4	8.5	8.4	-128.43	249.0	144.6	331.6	315.7	15.87	20.898	
3,600.0	3,579.6	3,587.7	3,568.1	8.8	8.6	-128.06	258.3	152.3	342.5	326.1	16.38	20.910	
3,700.0	3,678.9	3,687.0	3,666.7	9.1	8.9	-127.71	267.7	160.0	353.4	336.6	16.89	20.921	
3,800.0	3,778.1	3,786.4	3,765.3	9.4	9.2	-127.38	277.1	167.7	364.4	347.0	17.41	20.932	
3,900.0	3,877.4	3,885.8	3,864.0	9.6	9.4	-127.07	286.4	175.5	375.4	357.4	17.92	20.944	
4,000.0	3,976.7	3,985.2	3,962.6	9.9	9.7	-126.78	295.8	183.2	386.3	367.9	18.44	20.955	
4,100.0	4,075.9	4,084.5	4,061.2	10.2	10.0	-126.51	305.2	190.9	397.3	378.3	18.95	20.966	
4,200.0	4,175.2	4,183.9	4,159.9	10.5	10.3	-126.25	314.5	198.6	408.3	388.8	19.46	20.977	
4,300.0	4,274.4	4,283.3	4,258.5	10.7	10.5	-126.00	323.9	206.3	419.3	399.3	19.98	20.987	
4,400.0	4,373.7	4,382.7	4,357.1	11.0	10.8	-125.77	333.3	214.0	430.3	409.8	20.49	20.998	
4,500.0	4,472.9	4,482.1	4,455.8	11.3	11.1	-125.54	342.6	221.7	441.3	420.3	21.01	21.008	
4,600.0	4,572.2	4,581.4	4,554.4	11.6	11.4	-125.33	352.0	229.5	452.3	430.8	21.52	21.018	
4,700.0	4,671.4	4,680.8	4,653.0	11.8	11.6	-125.13	361.4	237.2	463.3	441.3	22.03	21.028	
4,800.0	4,770.7	4,780.2	4,751.7	12.1	11.9	-124.94	370.7	244.9	474.3	451.8	22.55	21.037	
4,900.0	4,869.9	4,879.6	4,850.3	12.4	12.2	-124.75	380.1	252.6	485.4	462.3	23.06	21.046	
5,000.0	4,969.2	4,979.0	4,948.9	12.7	12.4	-124.58	389.5	260.3	496.4	472.8	23.58	21.056	
5,100.0	5,068.5	5,078.3	5,047.6	12.9	12.7	-124.41	398.8	268.0	507.4	483.4	24.09	21.064	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	5,167.7	5,177.7	5,146.2	13.2	13.0	-124.25	408.2	275.7	518.5	493.9	24.60	21.073		
5,300.0	5,267.0	5,277.1	5,244.8	13.5	13.3	-124.10	417.6	283.5	529.5	504.4	25.12	21.082		
5,400.0	5,366.2	5,376.5	5,343.5	13.8	13.5	-123.95	426.9	291.2	540.6	515.0	25.63	21.090		
5,500.0	5,465.5	5,475.8	5,442.1	14.0	13.8	-123.81	436.3	298.9	551.6	525.5	26.15	21.098		
5,600.0	5,564.7	5,575.2	5,540.7	14.3	14.1	-123.67	445.7	306.6	562.7	536.0	26.66	21.106		
5,700.0	5,664.0	5,674.6	5,639.4	14.6	14.4	-123.54	455.0	314.3	573.8	546.6	27.18	21.113		
5,800.0	5,763.2	5,774.0	5,738.0	14.9	14.6	-123.42	464.4	322.0	584.8	557.1	27.69	21.121		
5,900.0	5,862.5	5,873.4	5,836.7	15.2	14.9	-123.29	473.8	329.7	595.9	567.7	28.20	21.128		
6,000.0	5,961.7	5,972.7	5,935.3	15.4	15.2	-123.18	483.1	337.5	607.0	578.2	28.72	21.135		
6,100.0	6,061.0	6,072.1	6,033.9	15.7	15.5	-123.07	492.5	345.2	618.0	588.8	29.23	21.142		
6,200.0	6,160.3	6,171.5	6,132.6	16.0	15.7	-122.96	501.9	352.9	629.1	599.4	29.75	21.149		
6,300.0	6,259.5	6,270.9	6,231.2	16.3	16.0	-122.85	511.2	360.6	640.2	609.9	30.26	21.156		
6,400.0	6,358.8	6,370.2	6,329.8	16.5	16.3	-122.75	520.6	368.3	651.3	620.5	30.77	21.162		
6,500.0	6,458.0	6,469.6	6,428.5	16.8	16.5	-122.65	530.0	376.0	662.3	631.0	31.29	21.169		
6,600.0	6,557.3	6,569.0	6,527.1	17.1	16.8	-122.56	539.3	383.7	673.4	641.6	31.80	21.175		
6,700.0	6,656.5	6,668.4	6,625.7	17.4	17.1	-122.47	548.7	391.5	684.5	652.2	32.32	21.181		
6,800.0	6,755.8	6,767.8	6,724.4	17.6	17.4	-122.38	558.0	399.2	695.6	662.8	32.83	21.187		
6,900.0	6,855.0	7,926.3	7,500.0	17.9	16.6	176.93	-50.8	459.8	706.3	687.7	18.58	38.006		
7,000.0	6,954.3	7,927.1	7,500.0	18.2	16.6	176.80	-51.6	459.8	622.7	603.2	19.55	31.847		
7,100.0	7,053.6	7,928.0	7,500.0	18.5	16.6	176.67	-52.5	459.8	544.8	524.0	20.82	26.170		
7,200.0	7,152.8	7,928.8	7,500.0	18.7	16.6	176.54	-53.3	459.8	475.1	452.7	22.42	21.196		
7,300.0	7,251.8	7,923.1	7,500.0	19.0	16.6	-134.96	-47.6	459.8	418.1	393.8	24.24	17.248		
7,400.0	7,348.3	7,900.3	7,500.0	19.3	16.5	-116.30	-24.7	459.8	379.6	353.8	25.85	14.685		
7,500.0	7,439.5	7,860.2	7,499.8	19.5	16.5	-105.22	15.3	459.8	363.9	337.1	26.75	13.602		
7,520.8	7,457.5	7,850.2	7,499.5	19.6	16.5	-102.99	25.3	459.8	363.4	336.6	26.83	13.546 SF		
7,600.0	7,522.5	7,812.0	7,496.7	19.8	16.4	-94.70	63.4	459.6	369.7	343.0	26.74	13.828		
7,700.0	7,594.8	7,763.4	7,489.5	20.2	16.4	-84.37	111.5	459.0	392.9	366.9	25.99	15.117		
7,800.0	7,654.3	7,714.5	7,478.1	20.6	16.4	-74.43	159.0	458.1	427.5	402.5	24.98	17.113		
7,900.0	7,699.1	7,665.4	7,462.7	21.1	16.5	-65.46	205.6	456.9	468.0	443.9	24.09	19.427		
8,000.0	7,727.9	7,616.2	7,443.3	21.8	16.6	-57.90	250.8	455.4	510.0	486.5	23.50	21.706		
8,100.0	7,739.7	7,566.9	7,420.1	22.6	16.7	-51.88	294.2	453.6	550.6	527.4	23.24	23.691		
8,200.0	7,740.0	7,519.2	7,394.2	23.4	16.8	-49.24	334.1	451.6	591.7	568.5	23.24	25.457		
8,300.0	7,740.0	7,476.6	7,368.3	24.4	17.0	-47.30	367.9	449.5	639.8	616.5	23.38	27.368		
8,400.0	7,740.0	7,450.0	7,350.9	25.4	17.1	-46.08	388.0	448.2	694.8	671.0	23.84	29.150		
8,500.0	7,740.0	7,400.0	7,315.7	26.5	17.2	-43.77	423.4	445.4	755.3	731.3	23.93	31.560		
8,600.0	7,740.0	7,374.8	7,296.9	27.7	17.3	-42.62	440.1	443.9	820.9	796.4	24.46	33.562		
8,700.0	7,740.0	7,350.0	7,277.7	28.9	17.4	-41.51	455.6	442.4	890.9	866.0	24.97	35.676		
8,800.0	7,740.0	7,324.3	7,257.0	30.2	17.5	-40.37	470.9	440.8	964.6	939.2	25.45	37.909		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-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	-89.59	0.4	-52.6	52.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.59	0.4	-52.6	52.6	52.3	0.30	173.266	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.59	0.4	-52.6	52.6	52.0	0.65	80.610		
300.0	300.0	300.0	300.0	0.5	0.5	-89.59	0.4	-52.6	52.6	51.6	1.00	52.523		
400.0	400.0	400.0	400.0	0.7	0.7	-89.59	0.4	-52.6	52.6	51.3	1.35	38.951		
500.0	500.0	500.0	500.0	0.9	0.8	176.58	0.4	-52.6	53.5	51.8	1.70	31.466		
600.0	600.0	600.0	600.0	1.0	1.0	176.73	0.4	-52.6	56.1	54.1	2.05	27.381		
700.0	699.9	699.9	699.9	1.2	1.2	176.97	0.4	-52.6	60.5	58.1	2.40	25.213		
800.0	799.7	799.7	799.7	1.4	1.4	177.24	0.4	-52.6	66.6	63.8	2.75	24.232		
900.0	899.4	899.4	899.4	1.6	1.5	177.53	0.4	-52.6	74.4	71.3	3.10	24.035		
1,000.0	998.9	998.9	998.9	1.8	1.7	177.81	0.4	-52.6	84.0	80.5	3.44	24.386		
1,100.0	1,098.3	1,099.5	1,099.5	2.1	1.9	178.41	0.9	-51.9	94.6	90.8	3.79	24.945		
1,200.0	1,197.5	1,200.3	1,200.2	2.3	2.1	179.54	2.6	-49.9	104.9	100.7	4.14	25.301		
1,300.0	1,296.8	1,301.2	1,301.1	2.6	2.3	-178.91	5.3	-46.4	113.9	109.4	4.50	25.312		
1,400.0	1,396.0	1,402.3	1,402.0	2.8	2.4	-177.00	9.2	-41.6	121.7	116.8	4.86	25.056		
1,500.0	1,495.3	1,503.5	1,502.9	3.1	2.6	-174.75	14.2	-35.3	128.4	123.2	5.22	24.588		
1,600.0	1,594.5	1,604.7	1,603.6	3.4	2.9	-172.14	20.3	-27.7	134.2	128.6	5.60	23.950		
1,700.0	1,693.8	1,705.8	1,704.1	3.6	3.1	-169.17	27.5	-18.7	139.2	133.2	6.01	23.176		
1,800.0	1,793.0	1,806.8	1,804.2	3.9	3.3	-165.83	35.8	-8.3	143.5	137.1	6.44	22.296		
1,900.0	1,892.3	1,907.7	1,903.9	4.2	3.6	-162.10	45.1	3.5	147.4	140.5	6.91	21.344		
2,000.0	1,991.6	2,007.2	2,002.1	4.4	3.9	-158.29	55.0	15.8	151.4	144.0	7.41	20.441		
2,100.0	2,090.8	2,106.6	2,100.3	4.7	4.1	-154.69	64.9	28.2	156.1	148.2	7.94	19.669		
2,200.0	2,190.1	2,206.0	2,198.4	5.0	4.4	-151.31	74.8	40.6	161.3	152.8	8.49	19.012		
2,300.0	2,289.3	2,305.5	2,296.6	5.3	4.7	-148.15	84.6	52.9	167.1	158.1	9.05	18.459		
2,400.0	2,388.6	2,404.9	2,394.8	5.5	5.0	-145.21	94.5	65.3	173.4	163.7	9.63	17.995		
2,500.0	2,487.8	2,504.3	2,492.9	5.8	5.3	-142.48	104.4	77.7	180.0	169.8	10.22	17.610		
2,600.0	2,587.1	2,603.7	2,591.1	6.1	5.6	-139.94	114.2	90.0	187.1	176.3	10.82	17.291		
2,700.0	2,686.3	2,703.1	2,689.2	6.4	5.9	-137.60	124.1	102.4	194.5	183.1	11.42	17.028		
2,800.0	2,785.6	2,802.6	2,787.4	6.6	6.2	-135.43	134.0	114.8	202.2	190.2	12.02	16.814		
2,900.0	2,884.8	2,902.0	2,885.5	6.9	6.5	-133.42	143.9	127.1	210.1	197.5	12.63	16.640		
3,000.0	2,984.1	3,001.4	2,983.7	7.2	6.9	-131.56	153.7	139.5	218.4	205.1	13.23	16.501		
3,100.0	3,083.4	3,100.8	3,081.8	7.4	7.2	-129.83	163.6	151.8	226.8	212.9	13.84	16.390		
3,200.0	3,182.6	3,200.2	3,180.0	7.7	7.5	-128.23	173.5	164.2	235.4	220.9	14.44	16.303		
3,300.0	3,281.9	3,299.7	3,278.1	8.0	7.8	-126.74	183.3	176.6	244.2	229.1	15.04	16.237		
3,400.0	3,381.1	3,399.1	3,376.3	8.3	8.1	-125.36	193.2	188.9	253.1	237.5	15.64	16.187		
3,500.0	3,480.4	3,498.5	3,474.4	8.5	8.4	-124.07	203.1	201.3	262.2	245.9	16.23	16.152		
3,600.0	3,579.6	3,597.9	3,572.6	8.8	8.8	-122.86	213.0	213.7	271.4	254.5	16.82	16.128		
3,700.0	3,678.9	3,697.3	3,670.7	9.1	9.1	-121.74	222.8	226.0	280.7	263.2	17.42	16.115		
3,800.0	3,778.1	3,796.8	3,768.9	9.4	9.4	-120.69	232.7	238.4	290.1	272.1	18.01	16.109		
3,900.0	3,877.4	3,896.2	3,867.0	9.6	9.7	-119.70	242.6	250.8	299.6	281.0	18.59	16.111		
4,000.0	3,976.7	3,995.6	3,965.2	9.9	10.0	-118.78	252.4	263.1	309.1	290.0	19.18	16.119		
4,100.0	4,075.9	4,095.0	4,063.3	10.2	10.4	-117.91	262.3	275.5	318.8	299.0	19.76	16.131		
4,200.0	4,175.2	4,194.4	4,161.5	10.5	10.7	-117.09	272.2	287.9	328.5	308.2	20.34	16.148		
4,300.0	4,274.4	4,293.9	4,259.7	10.7	11.0	-116.32	282.1	300.2	338.3	317.4	20.92	16.167		
4,400.0	4,373.7	4,393.3	4,357.8	11.0	11.3	-115.59	291.9	312.6	348.1	326.6	21.50	16.190		
4,500.0	4,472.9	4,492.7	4,456.0	11.3	11.6	-114.90	301.8	325.0	358.0	335.9	22.08	16.215		
4,600.0	4,572.2	4,592.1	4,554.1	11.6	12.0	-114.25	311.7	337.3	368.0	345.3	22.66	16.242		
4,700.0	4,671.4	4,691.5	4,652.3	11.8	12.3	-113.64	321.5	349.7	378.0	354.7	23.23	16.270		
4,800.0	4,770.7	4,791.0	4,750.4	12.1	12.6	-113.05	331.4	362.1	388.0	364.2	23.80	16.299		
4,900.0	4,869.9	4,890.4	4,848.6	12.4	12.9	-112.50	341.3	374.4	398.0	373.7	24.38	16.330		
5,000.0	4,969.2	4,989.8	4,946.7	12.7	13.3	-111.97	351.2	386.8	408.1	383.2	24.95	16.361		
5,100.0	5,068.5	5,089.2	5,044.9	12.9	13.6	-111.47	361.0	399.2	418.3	392.8	25.52	16.393		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #4											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,167.7	5,188.6	5,143.0	13.2	13.9	-110.99	370.9	411.5	428.4	402.4	26.09	16.425	
5,300.0	5,267.0	5,288.1	5,241.2	13.5	14.2	-110.53	380.8	423.9	438.6	412.0	26.65	16.457	
5,400.0	5,366.2	5,387.5	5,339.3	13.8	14.6	-110.10	390.6	436.3	448.9	421.6	27.22	16.489	
5,500.0	5,465.5	5,486.9	5,437.5	14.0	14.9	-109.68	400.5	448.6	459.1	431.3	27.79	16.522	
5,600.0	5,564.7	5,586.3	5,535.6	14.3	15.2	-109.28	410.4	461.0	469.4	441.0	28.35	16.554	
5,700.0	5,664.0	5,685.7	5,633.8	14.6	15.5	-108.90	420.3	473.4	479.7	450.7	28.92	16.586	
5,800.0	5,763.2	5,785.2	5,731.9	14.9	15.9	-108.54	430.1	485.7	490.0	460.5	29.48	16.618	
5,900.0	5,862.5	5,884.6	5,830.1	15.2	16.2	-108.19	440.0	498.1	500.3	470.2	30.05	16.650	
6,000.0	5,961.7	5,984.0	5,928.2	15.4	16.5	-107.85	449.9	510.5	510.6	480.0	30.61	16.682	
6,100.0	6,061.0	6,083.4	6,026.4	15.7	16.8	-107.53	459.7	522.8	521.0	489.8	31.17	16.713	
6,200.0	6,160.3	6,182.8	6,124.6	16.0	17.2	-107.22	469.6	535.2	531.4	499.6	31.74	16.744	
6,300.0	6,259.5	6,282.3	6,222.7	16.3	17.5	-106.92	479.5	547.5	541.8	509.5	32.30	16.775	
6,400.0	6,358.8	6,381.7	6,320.9	16.5	17.8	-106.64	489.4	559.9	552.2	519.3	32.86	16.805	
6,500.0	6,458.0	6,481.1	6,419.0	16.8	18.1	-106.36	499.2	572.3	562.6	529.2	33.42	16.834	
6,600.0	6,557.3	6,580.5	6,517.2	17.1	18.5	-106.09	509.1	584.6	573.0	539.0	33.98	16.864	
6,700.0	6,656.5	6,679.9	6,615.3	17.4	18.8	-105.84	519.0	597.0	583.5	548.9	34.54	16.893	
6,800.0	6,755.8	6,779.4	6,713.5	17.6	19.1	-105.59	528.8	609.4	593.9	558.8	35.10	16.921	
6,900.0	6,855.0	6,878.8	6,811.6	17.9	19.4	-105.35	538.7	621.7	604.4	568.7	35.66	16.949	
7,000.0	6,954.3	6,978.2	6,909.8	18.2	19.8	-105.12	548.6	634.1	614.9	578.6	36.22	16.977	
7,100.0	7,053.6	7,077.6	7,007.9	18.5	20.1	-104.90	558.5	646.5	625.3	588.6	36.78	17.004	
7,200.0	7,152.8	8,203.2	7,740.0	18.7	20.6	-179.72	-53.1	786.6	587.2	570.9	16.33	35.952	
7,300.0	7,251.8	8,198.4	7,740.0	19.0	20.6	-175.77	-48.3	786.3	488.3	471.8	16.50	29.590	
7,400.0	7,348.3	8,176.4	7,740.0	19.3	20.6	-171.32	-26.4	784.7	392.4	375.6	16.71	23.480	
7,500.0	7,439.5	8,131.9	7,739.9	19.5	20.5	-166.10	18.0	781.6	302.7	285.6	17.06	17.741	
7,600.0	7,522.5	8,050.7	7,732.5	19.8	20.3	-153.54	98.6	775.0	218.7	200.0	18.70	11.695	
7,700.0	7,594.8	7,981.5	7,717.4	20.2	20.3	-137.70	165.8	768.3	143.1	120.7	22.43	6.380	
7,800.0	7,654.3	7,918.4	7,696.7	20.6	20.3	-113.15	224.9	761.4	92.4	64.6	27.80	3.323	
7,835.3	7,671.9	7,897.0	7,688.2	20.8	20.3	-102.16	244.3	758.9	87.8	59.4	28.37	3.094 SF	
7,900.0	7,699.1	7,858.8	7,671.2	21.1	20.3	-81.36	278.3	754.3	101.7	75.5	26.22	3.880	
8,000.0	7,727.9	7,800.0	7,640.8	21.8	20.4	-55.81	328.0	746.8	154.5	130.4	24.08	6.416	
8,100.0	7,739.7	7,750.0	7,611.1	22.6	20.4	-41.98	367.7	740.0	216.3	191.0	25.33	8.542	
8,200.0	7,740.0	7,700.0	7,578.0	23.4	20.5	-36.30	404.5	733.1	280.7	253.8	26.88	10.444	
8,300.0	7,740.0	7,650.0	7,541.9	24.4	20.6	-32.43	438.2	725.9	351.9	324.0	27.92	12.606	
8,400.0	7,740.0	7,611.2	7,511.9	25.4	20.6	-29.92	462.2	720.2	428.6	399.4	29.16	14.700	
8,500.0	7,740.0	7,579.4	7,486.1	26.5	20.7	-28.15	480.2	715.6	509.4	479.1	30.29	16.816	
8,600.0	7,740.0	7,550.0	7,461.4	27.7	20.7	-26.69	495.5	711.2	593.3	562.1	31.17	19.033	
8,700.0	7,740.0	7,528.9	7,443.2	28.9	20.7	-25.74	505.7	708.1	679.7	647.6	32.07	21.196	
8,800.0	7,740.0	7,500.0	7,417.7	30.2	20.8	-24.56	518.6	703.8	768.2	735.7	32.54	23.605	
8,900.0	7,740.0	7,500.0	7,417.7	31.6	20.8	-24.56	518.6	703.8	858.2	824.6	33.57	25.563	
9,000.0	7,740.0	7,475.3	7,395.5	32.9	20.8	-23.65	528.6	700.1	949.3	915.4	33.89	28.008	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #3													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.53	0.4	-45.1	45.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.53	0.4	-45.1	45.1	44.8	0.30	148.383		
200.0	200.0	200.0	200.0	0.3	0.3	-89.53	0.4	-45.1	45.1	44.4	0.65	69.034		
300.0	300.0	300.0	300.0	0.5	0.5	-89.53	0.4	-45.1	45.1	44.1	1.00	44.980		
400.0	400.0	400.7	400.7	0.7	0.7	-89.06	0.7	-44.2	44.3	42.9	1.35	32.734		
500.0	500.0	501.4	501.3	0.9	0.9	178.60	1.8	-41.8	42.8	41.0	1.70	25.105		
600.0	600.0	602.0	601.9	1.0	1.0	-178.63	3.6	-37.8	41.5	39.4	2.06	20.176		
700.0	699.9	702.6	702.3	1.2	1.2	-174.55	6.0	-32.1	40.6	38.1	2.41	16.807		
800.0	799.7	803.1	802.4	1.4	1.5	-169.22	9.2	-24.8	40.2	37.4	2.78	14.445		
804.8	804.5	807.9	807.3	1.4	1.5	-168.93	9.4	-24.4	40.2	37.4	2.80	14.350 CC, ES		
900.0	899.4	903.5	902.4	1.6	1.7	-162.80	13.1	-16.0	40.6	37.4	3.17	12.789		
1,000.0	998.9	1,003.9	1,002.1	1.8	1.9	-155.68	17.7	-5.5	41.9	38.3	3.60	11.654		
1,100.0	1,098.3	1,104.1	1,101.5	2.1	2.2	-148.33	23.0	6.5	44.5	40.4	4.08	10.912		
1,200.0	1,197.5	1,204.2	1,200.5	2.3	2.5	-140.62	28.9	20.2	47.7	43.0	4.62	10.320		
1,300.0	1,296.8	1,304.2	1,299.0	2.6	2.8	-132.12	35.6	35.4	51.1	45.9	5.23	9.777		
1,400.0	1,396.0	1,403.9	1,397.1	2.8	3.2	-123.05	42.9	52.1	55.3	49.4	5.89	9.395		
1,500.0	1,495.3	1,503.3	1,494.5	3.1	3.5	-113.83	50.8	70.3	60.8	54.2	6.56	9.260 SF		
1,600.0	1,594.5	1,602.7	1,591.7	3.4	3.9	-105.68	59.1	89.1	67.7	60.5	7.20	9.398		
1,700.0	1,693.8	1,702.0	1,688.9	3.6	4.3	-99.15	67.3	107.9	75.7	67.9	7.80	9.708		
1,800.0	1,793.0	1,801.4	1,786.1	3.9	4.7	-93.91	75.6	126.8	84.5	76.2	8.36	10.107		
1,900.0	1,892.3	1,900.7	1,883.3	4.2	5.1	-89.68	83.8	145.6	93.9	85.0	8.91	10.545		
2,000.0	1,991.6	2,000.0	1,980.5	4.4	5.5	-86.24	92.0	164.5	103.7	94.3	9.43	10.995		
2,100.0	2,090.8	2,099.4	2,077.7	4.7	5.9	-83.39	100.3	183.3	113.8	103.9	9.95	11.440		
2,200.0	2,190.1	2,198.7	2,174.8	5.0	6.3	-81.02	108.5	202.1	124.2	113.7	10.46	11.871		
2,300.0	2,289.3	2,298.1	2,272.0	5.3	6.6	-79.01	116.8	221.0	134.7	123.7	10.97	12.283		
2,400.0	2,388.6	2,397.4	2,369.2	5.5	7.0	-77.29	125.0	239.8	145.4	133.9	11.47	12.675		
2,500.0	2,487.8	2,496.8	2,466.4	5.8	7.4	-75.81	133.3	258.6	156.1	144.2	11.97	13.045		
2,600.0	2,587.1	2,596.1	2,563.6	6.1	7.8	-74.52	141.5	277.5	167.0	154.5	12.47	13.394		
2,700.0	2,686.3	2,695.4	2,660.8	6.4	8.2	-73.39	149.7	296.3	177.9	165.0	12.97	13.723		
2,800.0	2,785.6	2,794.8	2,758.0	6.6	8.6	-72.39	158.0	315.1	188.9	175.5	13.46	14.033		
2,900.0	2,884.8	2,894.1	2,855.2	6.9	9.0	-71.50	166.2	334.0	200.0	186.0	13.96	14.325		
3,000.0	2,984.1	2,993.5	2,952.4	7.2	9.4	-70.70	174.5	352.8	211.1	196.6	14.46	14.600		
3,100.0	3,083.4	3,092.8	3,049.6	7.4	9.8	-69.99	182.7	371.6	222.2	207.2	14.95	14.860		
3,200.0	3,182.6	3,192.2	3,146.8	7.7	10.2	-69.34	190.9	390.5	233.4	217.9	15.45	15.104		
3,300.0	3,281.9	3,291.5	3,244.0	8.0	10.6	-68.75	199.2	409.3	244.5	228.6	15.95	15.336		
3,400.0	3,381.1	3,390.8	3,341.1	8.3	11.0	-68.21	207.4	428.1	255.8	239.3	16.44	15.554		
3,500.0	3,480.4	3,490.2	3,438.3	8.5	11.4	-67.72	215.7	447.0	267.0	250.0	16.94	15.762		
3,600.0	3,579.6	3,589.5	3,535.5	8.8	11.8	-67.26	223.9	465.8	278.2	260.8	17.44	15.958		
3,700.0	3,678.9	3,688.9	3,632.7	9.1	12.2	-66.85	232.2	484.7	289.5	271.6	17.93	16.144		
3,800.0	3,778.1	3,788.2	3,729.9	9.4	12.6	-66.46	240.4	503.5	300.8	282.3	18.43	16.321		
3,900.0	3,877.4	3,887.5	3,827.1	9.6	13.0	-66.10	248.6	522.3	312.1	293.1	18.92	16.490		
4,000.0	3,976.7	3,986.9	3,924.3	9.9	13.5	-65.77	256.9	541.2	323.4	303.9	19.42	16.650		
4,100.0	4,075.9	4,086.2	4,021.5	10.2	13.9	-65.46	265.1	560.0	334.7	314.8	19.92	16.802		
4,200.0	4,175.2	4,185.6	4,118.7	10.5	14.3	-65.17	273.4	578.8	346.0	325.6	20.41	16.948		
4,300.0	4,274.4	4,284.9	4,215.9	10.7	14.7	-64.89	281.6	597.7	357.3	336.4	20.91	17.087		
4,400.0	4,373.7	4,384.3	4,313.1	11.0	15.1	-64.64	289.8	616.5	368.7	347.2	21.41	17.220		
4,500.0	4,472.9	4,483.6	4,410.3	11.3	15.5	-64.40	298.1	635.3	380.0	358.1	21.91	17.347		
4,600.0	4,572.2	4,582.9	4,507.4	11.6	15.9	-64.17	306.3	654.2	391.3	368.9	22.40	17.469		
4,700.0	4,671.4	4,682.3	4,604.6	11.8	16.3	-63.96	314.6	673.0	402.7	379.8	22.90	17.585		
4,800.0	4,770.7	4,781.6	4,701.8	12.1	16.7	-63.76	322.8	691.8	414.1	390.7	23.40	17.697		
4,900.0	4,869.9	4,881.0	4,799.0	12.4	17.1	-63.56	331.1	710.7	425.4	401.5	23.89	17.805		
5,000.0	4,969.2	4,980.3	4,896.2	12.7	17.5	-63.38	339.3	729.5	436.8	412.4	24.39	17.908		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	Centre +E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
5,100.0	5,068.5	5,079.7	4,993.4	12.9	17.9	-63.21	347.5	748.3	448.2	423.3	24.89	18.007	
5,200.0	5,167.7	5,179.0	5,090.6	13.2	18.3	-63.05	355.8	767.2	459.5	434.2	25.39	18.102	
5,300.0	5,267.0	5,278.3	5,187.8	13.5	18.7	-62.89	364.0	786.0	470.9	445.0	25.88	18.194	
5,400.0	5,366.2	5,377.7	5,285.0	13.8	19.1	-62.74	372.3	804.9	482.3	455.9	26.38	18.282	
5,500.0	5,465.5	5,477.0	5,382.2	14.0	19.5	-62.60	380.5	823.7	493.7	466.8	26.88	18.368	
5,600.0	5,564.7	5,576.4	5,479.4	14.3	19.9	-62.47	388.7	842.5	505.1	477.7	27.38	18.450	
5,700.0	5,664.0	5,675.7	5,576.6	14.6	20.3	-62.34	397.0	861.4	516.5	488.6	27.87	18.529	
5,800.0	5,763.2	5,775.1	5,673.7	14.9	20.7	-62.22	405.2	880.2	527.9	499.5	28.37	18.606	
5,900.0	5,862.5	5,874.4	5,770.9	15.2	21.1	-62.10	413.5	899.0	539.3	510.4	28.87	18.680	
6,000.0	5,961.7	5,973.7	5,868.1	15.4	21.5	-61.98	421.7	917.9	550.7	521.3	29.37	18.751	
6,100.0	6,061.0	6,073.1	5,965.3	15.7	21.9	-61.88	430.0	936.7	562.1	532.2	29.86	18.821	
6,200.0	6,160.3	6,172.4	6,062.5	16.0	22.3	-61.77	438.2	955.5	573.5	543.1	30.36	18.888	
6,300.0	6,259.5	6,271.8	6,159.7	16.3	22.7	-61.67	446.4	974.4	584.9	554.0	30.86	18.953	
6,400.0	6,358.8	6,371.1	6,256.9	16.5	23.1	-61.57	454.7	993.2	596.3	564.9	31.36	19.015	
6,500.0	6,458.0	6,470.5	6,354.1	16.8	23.5	-61.48	462.9	1,012.0	607.7	575.8	31.86	19.076	
6,600.0	6,557.3	6,569.8	6,451.3	17.1	23.9	-61.39	471.2	1,030.9	619.1	586.7	32.35	19.135	
6,700.0	6,656.5	6,669.1	6,548.5	17.4	24.3	-61.31	479.4	1,049.7	630.5	597.7	32.85	19.193	
6,800.0	6,755.8	6,768.5	6,645.7	17.6	24.7	-61.22	487.6	1,068.6	641.9	608.6	33.35	19.248	
6,900.0	6,855.0	6,867.8	6,742.9	17.9	25.1	-61.14	495.9	1,087.4	653.3	619.5	33.85	19.302	
7,000.0	6,954.3	6,967.2	6,840.0	18.2	25.5	-61.06	504.1	1,106.2	664.7	630.4	34.35	19.355	
7,100.0	7,053.6	7,066.5	6,927.3	18.5	25.9	-60.97	512.3	1,125.1	676.1	641.5	34.85	19.408	
7,200.0	7,152.8	7,165.7	7,028.5	18.7	26.2	-60.89	520.5	1,144.0	687.5	652.6	35.35	19.461	
7,300.0	7,251.8	7,264.7	7,129.5	19.0	26.6	-60.81	528.7	1,162.9	698.9	663.7	35.85	19.514	
7,400.0	7,348.3	7,361.2	7,230.5	19.3	26.6	-60.73	536.9	1,181.8	710.3	674.8	36.35	19.567	
7,500.0	7,439.5	7,452.4	7,331.5	19.5	26.6	-60.65	545.1	1,200.7	721.7	685.9	36.85	19.620	
7,600.0	7,522.5	7,535.4	7,432.5	19.8	26.5	-60.57	553.3	1,219.6	733.1	697.0	37.35	19.673	
7,613.5	7,532.9	7,545.8	7,443.0	19.8	26.5	-60.57	553.3	1,230.5	744.5	708.1	37.85	19.726	
7,700.0	7,594.8	7,607.7	7,470.2	20.2	26.5	-60.49	561.5	1,228.3	755.9	719.2	38.35	19.779	
7,800.0	7,654.3	7,733.5	7,454.1	20.6	26.5	-60.41	569.7	1,225.2	767.3	730.3	38.85	19.832	
7,900.0	7,699.1	7,686.8	7,434.2	21.1	26.5	-60.33	577.9	1,221.4	778.7	741.4	39.35	19.885	
8,000.0	7,727.9	7,639.5	7,410.8	21.8	26.5	-60.25	586.1	1,216.8	790.1	752.6	39.85	19.938	
8,100.0	7,739.7	7,600.0	7,388.7	22.6	26.5	-60.17	594.3	1,212.5	801.5	763.7	40.35	19.991	
8,200.0	7,740.0	7,550.0	7,357.7	23.4	26.5	-60.09	602.5	1,206.5	812.9	774.8	40.85	20.044	
8,300.0	7,740.0	7,500.0	7,323.5	24.4	26.5	-60.01	610.7	1,199.9	824.3	785.9	41.35	20.097	
8,400.0	7,740.0	7,470.6	7,302.0	25.4	26.5	-59.93	618.9	1,195.8	835.7	797.0	41.85	20.150	
8,500.0	7,740.0	7,450.0	7,286.4	26.5	26.5	-59.85	627.1	1,192.7	847.1	808.1	42.35	20.203	
8,600.0	7,740.0	7,400.0	7,246.6	27.7	26.5	-59.77	635.3	1,185.0	858.5	819.2	42.85	20.256	
8,700.0	7,740.0	7,400.0	7,246.6	28.9	26.5	-59.69	643.5	1,185.0	869.9	830.3	43.35	20.309	
8,800.0	7,740.0	7,368.3	7,220.1	30.2	26.5	-59.61	651.7	1,179.9	881.1	841.4	43.85	20.362	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 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	-89.99	0.0	-37.5	37.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.99	0.0	-37.5	37.5	37.2	0.30	123.495		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-37.5	37.5	36.9	0.65	57.455		
300.0	300.0	300.6	300.6	0.5	0.5	-89.55	0.3	-36.7	36.7	35.7	1.00	36.568		
400.0	400.0	401.2	401.1	0.7	0.7	-88.08	1.1	-34.2	34.2	32.8	1.35	25.271		
500.0	500.0	501.6	501.5	0.9	0.9	-179.02	2.6	-30.0	31.0	29.3	1.71	18.187		
600.0	600.0	602.0	601.7	1.0	1.1	-174.05	4.6	-24.2	28.1	26.0	2.06	13.636		
700.0	699.9	702.3	701.7	1.2	1.3	-166.59	7.1	-16.7	25.7	23.3	2.43	10.589		
800.0	799.7	802.5	801.4	1.4	1.5	-156.45	10.2	-7.5	24.3	21.4	2.83	8.572		
859.6	859.2	862.3	860.8	1.5	1.7	-149.34	12.4	-1.3	24.0	20.9	3.10	7.751 CC		
900.0	899.4	902.7	900.9	1.6	1.8	-144.27	13.9	3.2	24.1	20.8	3.29	7.344 ES		
1,000.0	998.9	1,002.7	1,000.1	1.8	2.1	-131.68	18.1	15.6	25.7	21.9	3.81	6.741		
1,100.0	1,098.3	1,102.6	1,098.9	2.1	2.4	-120.50	22.9	29.6	28.9	24.5	4.38	6.601 SF		
1,200.0	1,197.5	1,202.4	1,197.3	2.3	2.7	-110.25	28.3	45.3	33.4	28.4	4.98	6.704		
1,300.0	1,296.8	1,301.9	1,295.2	2.6	3.0	-100.09	34.1	62.5	39.0	33.4	5.57	6.997		
1,400.0	1,396.0	1,401.2	1,392.4	2.8	3.4	-90.66	40.5	81.2	46.1	40.0	6.12	7.527		
1,500.0	1,495.3	1,500.0	1,488.9	3.1	3.8	-82.33	47.5	101.5	55.0	48.4	6.62	8.301		
1,600.0	1,594.5	1,598.7	1,584.9	3.4	4.2	-75.19	54.9	123.3	65.7	58.7	7.08	9.287		
1,700.0	1,693.8	1,697.7	1,680.8	3.6	4.7	-69.54	62.7	146.0	77.9	70.4	7.50	10.388		
1,800.0	1,793.0	1,796.7	1,776.9	3.9	5.1	-65.43	70.5	168.8	90.6	82.7	7.92	11.446		
1,900.0	1,892.3	1,895.7	1,872.9	4.2	5.6	-62.34	78.2	191.6	103.7	95.4	8.34	12.436		
2,000.0	1,991.6	1,994.7	1,968.9	4.4	6.0	-59.95	86.0	214.4	117.0	108.2	8.76	13.352		
2,100.0	2,090.8	2,093.7	2,065.0	4.7	6.5	-58.04	93.8	237.2	130.4	121.3	9.19	14.196		
2,200.0	2,190.1	2,192.7	2,161.0	5.0	6.9	-56.50	101.6	260.0	144.0	134.4	9.62	14.972		
2,300.0	2,289.3	2,291.7	2,257.0	5.3	7.4	-55.22	109.4	282.8	157.7	147.6	10.05	15.687		
2,400.0	2,388.6	2,390.7	2,353.1	5.5	7.9	-54.14	117.1	305.6	171.4	160.9	10.49	16.345		
2,500.0	2,487.8	2,489.7	2,449.1	5.8	8.3	-53.23	124.9	328.4	185.2	174.2	10.92	16.952		
2,600.0	2,587.1	2,588.7	2,545.1	6.1	8.8	-52.44	132.7	351.2	199.0	187.6	11.36	17.514		
2,700.0	2,686.3	2,687.7	2,641.2	6.4	9.2	-51.75	140.5	374.0	212.8	201.0	11.80	18.035		
2,800.0	2,785.6	2,786.7	2,737.2	6.6	9.7	-51.15	148.3	396.7	226.7	214.4	12.24	18.519		
2,900.0	2,884.8	2,885.7	2,833.2	6.9	10.1	-50.62	156.0	419.5	240.6	227.9	12.68	18.970		
3,000.0	2,984.1	2,984.8	2,929.3	7.2	10.6	-50.14	163.8	442.3	254.5	241.4	13.12	19.391		
3,100.0	3,083.4	3,083.8	3,025.3	7.4	11.1	-49.71	171.6	465.1	268.4	254.8	13.57	19.784		
3,200.0	3,182.6	3,182.8	3,121.3	7.7	11.5	-49.33	179.4	487.9	282.3	268.3	14.01	20.152		
3,300.0	3,281.9	3,281.8	3,217.4	8.0	12.0	-48.98	187.2	510.7	296.3	281.8	14.45	20.498		
3,400.0	3,381.1	3,380.8	3,313.4	8.3	12.5	-48.67	195.0	533.5	310.2	295.3	14.90	20.823		
3,500.0	3,480.4	3,479.8	3,409.4	8.5	12.9	-48.38	202.7	556.3	324.2	308.9	15.34	21.129		
3,600.0	3,579.6	3,578.8	3,505.5	8.8	13.4	-48.11	210.5	579.1	338.2	322.4	15.79	21.418		
3,700.0	3,678.9	3,677.8	3,601.5	9.1	13.8	-47.87	218.3	601.9	352.2	335.9	16.24	21.691		
3,800.0	3,778.1	3,776.8	3,697.5	9.4	14.3	-47.64	226.1	624.7	366.1	349.5	16.68	21.949		
3,900.0	3,877.4	3,875.8	3,793.6	9.6	14.8	-47.43	233.9	647.5	380.1	363.0	17.13	22.194		
4,000.0	3,976.7	3,974.8	3,889.6	9.9	15.2	-47.24	241.6	670.3	394.1	376.6	17.57	22.426		
4,100.0	4,075.9	4,073.8	3,985.6	10.2	15.7	-47.06	249.4	693.0	408.1	390.1	18.02	22.647		
4,200.0	4,175.2	4,172.8	4,081.7	10.5	16.2	-46.89	257.2	715.8	422.1	403.7	18.47	22.857		
4,300.0	4,274.4	4,271.8	4,177.7	10.7	16.6	-46.73	265.0	738.6	436.1	417.2	18.92	23.057		
4,400.0	4,373.7	4,370.9	4,273.7	11.0	17.1	-46.58	272.8	761.4	450.2	430.8	19.36	23.248		
4,500.0	4,472.9	4,469.9	4,369.8	11.3	17.5	-46.44	280.6	784.2	464.2	444.4	19.81	23.430		
4,600.0	4,572.2	4,568.9	4,465.8	11.6	18.0	-46.31	288.3	807.0	478.2	457.9	20.26	23.604		
4,700.0	4,671.4	4,667.9	4,561.8	11.8	18.5	-46.19	296.1	829.8	492.2	471.5	20.71	23.770		
4,800.0	4,770.7	4,766.9	4,657.9	12.1	18.9	-46.07	303.9	852.6	506.2	485.1	21.15	23.929		
4,900.0	4,869.9	4,865.9	4,753.9	12.4	19.4	-45.96	311.7	875.4	520.2	498.6	21.60	24.082		
5,000.0	4,969.2	4,964.9	4,849.9	12.7	19.9	-45.86	319.5	898.2	534.3	512.2	22.05	24.228		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
5,100.0	5,068.5	5,063.9	4,946.0	12.9	20.3	-45.76	327.2	921.0	548.3	525.8	22.50	24.369	
5,200.0	5,167.7	5,162.9	5,042.0	13.2	20.8	-45.66	335.0	943.8	562.3	539.4	22.95	24.504	
5,300.0	5,267.0	5,261.9	5,138.0	13.5	21.2	-45.57	342.8	966.5	576.4	553.0	23.40	24.634	
5,400.0	5,366.2	5,360.9	5,234.1	13.8	21.7	-45.49	350.6	989.3	590.4	566.5	23.85	24.759	
5,500.0	5,465.5	5,459.9	5,330.1	14.0	22.2	-45.41	358.4	1,012.1	604.4	580.1	24.29	24.879	
5,600.0	5,564.7	5,558.9	5,426.1	14.3	22.6	-45.33	366.2	1,034.9	618.4	593.7	24.74	24.995	
5,700.0	5,664.0	5,657.9	5,522.2	14.6	23.1	-45.26	373.9	1,057.7	632.5	607.3	25.19	25.107	
5,800.0	5,763.2	5,757.0	5,618.2	14.9	23.6	-45.18	381.7	1,080.5	646.5	620.9	25.64	25.215	
5,900.0	5,862.5	5,856.0	5,714.2	15.2	24.0	-45.12	389.5	1,103.3	660.5	634.5	26.09	25.319	
6,000.0	5,961.7	5,955.0	5,810.3	15.4	24.5	-45.05	397.3	1,126.1	674.6	648.0	26.54	25.419	
6,100.0	6,061.0	6,054.0	5,906.3	15.7	25.0	-44.99	405.1	1,148.9	688.6	661.6	26.99	25.516	
6,200.0	6,160.3	6,153.0	6,002.3	16.0	25.4	-44.93	412.8	1,171.7	702.7	675.2	27.44	25.610	
6,300.0	6,259.5	6,252.0	6,098.4	16.3	25.9	-44.87	420.6	1,194.5	716.7	688.8	27.89	25.701	
6,400.0	6,358.8	6,351.0	6,194.4	16.5	26.3	-44.82	428.4	1,217.3	730.7	702.4	28.33	25.789	
6,500.0	6,458.0	6,450.0	6,290.4	16.8	26.8	-44.76	436.2	1,240.0	744.8	716.0	28.78	25.875	
6,600.0	6,557.3	6,549.0	6,386.5	17.1	27.3	-44.71	444.0	1,262.8	758.8	729.6	29.23	25.957	
6,700.0	6,656.5	6,648.0	6,482.5	17.4	27.7	-44.66	451.7	1,285.6	772.9	743.2	29.68	26.037	
6,800.0	6,755.8	6,747.0	6,578.5	17.6	28.2	-44.61	459.5	1,308.4	786.9	756.8	30.13	26.115	
6,900.0	6,855.0	6,846.0	6,674.6	17.9	28.7	-44.57	467.3	1,331.2	800.9	770.4	30.58	26.191	
7,000.0	6,954.3	6,945.0	6,770.6	18.2	29.1	-44.52	475.1	1,354.0	815.0	783.9	31.03	26.264	
7,100.0	7,053.6	7,044.0	6,866.6	18.5	29.6	-44.48	482.9	1,376.8	829.0	797.5	31.48	26.335	
7,200.0	7,152.8	7,143.1	6,962.7	18.7	30.1	-44.44	490.7	1,399.6	843.1	811.1	31.93	26.404	
7,300.0	7,251.8	7,242.3	7,058.9	19.0	30.5	8.83	498.5	1,422.4	852.9	820.7	32.17	26.513	
7,400.0	7,348.3	7,538.9	7,344.8	19.3	31.7	35.07	481.9	1,490.3	849.9	818.2	31.74	26.778	
7,500.0	7,439.5	7,890.5	7,622.4	19.5	32.1	67.03	285.8	1,556.2	806.8	779.4	27.37	29.477	
7,600.0	7,522.5	7,910.0	7,633.8	19.8	32.2	76.39	270.2	1,558.9	765.8	738.9	26.88	28.485	
7,700.0	7,594.8	7,887.6	7,620.6	20.2	32.1	79.71	288.1	1,555.7	735.1	708.2	26.94	27.285	
7,800.0	7,654.3	7,852.5	7,598.7	20.6	32.1	80.03	315.0	1,550.5	716.2	688.7	27.52	26.025	
7,900.0	7,699.1	7,812.0	7,571.4	21.1	32.1	78.38	344.3	1,544.1	708.8	679.8	28.94	24.489	
7,918.3	7,705.6	7,804.2	7,566.0	21.2	32.1	77.91	349.6	1,542.8	708.6	679.3	29.32	24.167	
8,000.0	7,727.9	7,768.6	7,540.1	21.8	32.0	75.29	373.3	1,536.6	711.9	680.5	31.35	22.710	
8,100.0	7,739.7	7,723.6	7,505.4	22.6	32.0	71.17	400.8	1,528.4	723.7	689.1	34.55	20.946	
8,200.0	7,740.0	7,681.1	7,470.8	23.4	31.9	68.06	424.1	1,520.2	743.4	705.2	38.21	19.456	
8,300.0	7,740.0	7,650.0	7,444.6	24.4	31.9	65.96	439.5	1,514.0	773.0	730.9	42.05	18.383	
8,400.0	7,740.0	7,618.8	7,417.4	25.4	31.8	63.81	453.4	1,507.5	812.1	766.6	45.50	17.849	
8,500.0	7,740.0	7,600.0	7,400.7	26.5	31.8	62.50	461.0	1,503.5	859.8	811.1	48.71	17.651	
8,600.0	7,740.0	7,576.3	7,379.3	27.7	31.7	60.86	469.8	1,498.5	915.1	863.9	51.25	17.857	
8,700.0	7,740.0	7,550.0	7,355.1	28.9	31.7	59.03	478.5	1,492.7	977.0	923.8	53.23	18.354	
8,800.0	7,740.0	7,550.0	7,355.1	30.2	31.7	59.03	478.5	1,492.7	1,044.1	988.9	55.27	18.893	

Cathedral Energy Services

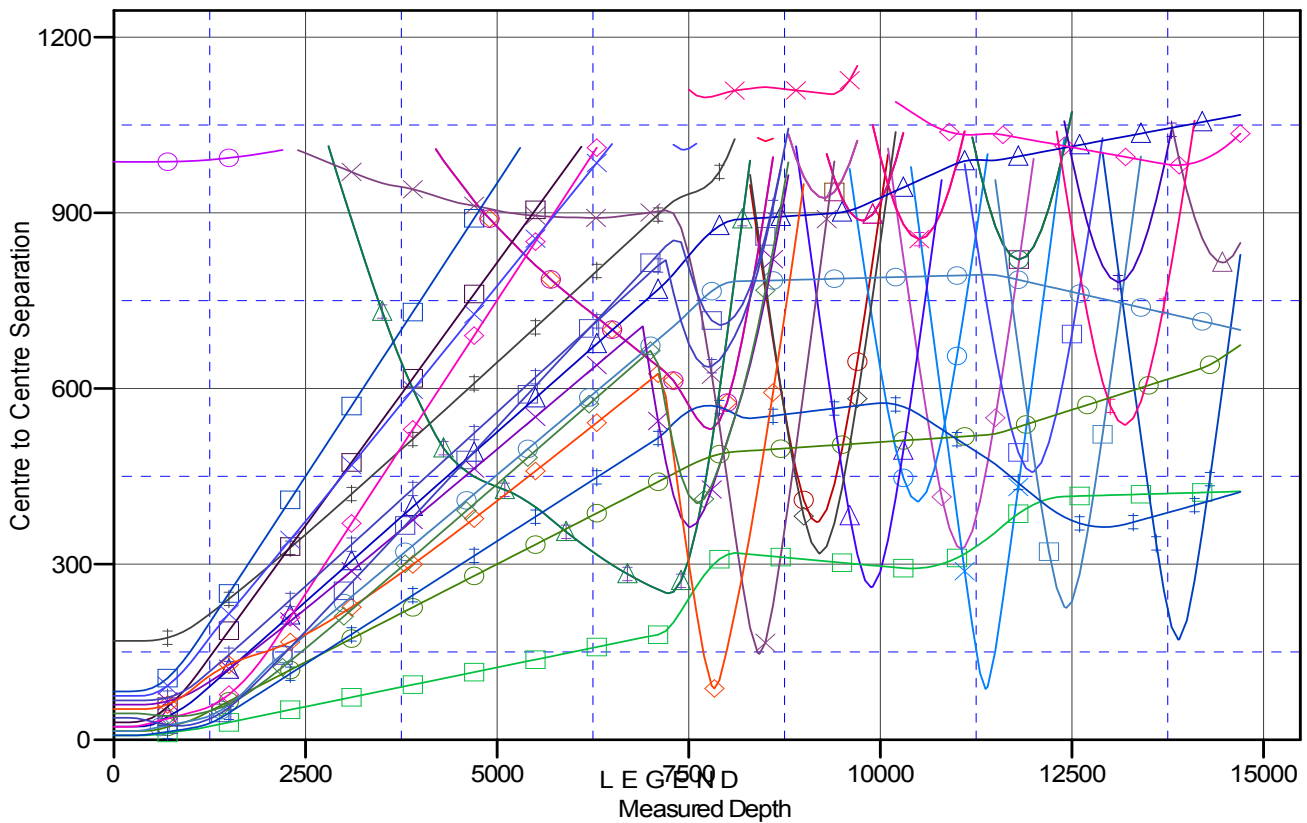
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2E-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2E-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

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

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

Ladder Plot



1168, Hz, Plan #2 V0	BEARDEN 2-4-6 (EXISTING), ENCANA WELL, PLAN ONLY V0	Woolley-Becky 2B-7H-E168, Hz, Plan #3
STING), ENCANA WELL, SURVEYS V0	BEARDEN 2-8-6 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Becky 2C-7H-E168, Hz, Plan #3
STING), ENCANA WELL, NO SURVEYS V0	BECKY 2-6 (EXISTING), NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2D-7H-E168, Hz, Plan #3
STING), ENCANA WELL, SURVEYS V0	BECKY 4 (EXISTING), MARTIN EXP WELL, NO SURVEYS V0	Woolley-Becky 2F-7H-E168, Hz, Plan #3
ISTING), ENCANA WELL, SURVEYS V0	BECKY 5-6 (EXISTING), FOUNDATION WELL, NO SURVEYS V0	Woolley-Becky 2G-7H-E168, Hz, Plan #3
ISTING), ENCANA WELL, SURVEYS V0	BECKY 7-6 (EXISTING), NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2H-7H-E168, Hz, Plan #3
ISTING), ENCANA WELL, PLAN ONLY V0	Thomas 7-12 (Existing), Existing, NO SURVEYS V0	Woolley-Sosa 2A-7H-E168, Hz, Plan #3
Well), Existing, Existing V0	WOOLLEY 11-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2B-7H-E168, Hz, Plan #3
ig Well), DD, DD V0	WOOLLEY 12-7 (EXISTING), ENCANA WELL, NO SURVEYS V0	Woolley-Sosa 2C-7H-E168, Hz, Plan #3
g Well), DD, DD V0	WOOLLEY 21-7 (EXISTING), ENCANA WELL, GYRO V0	Woolley-Sosa 2D-7H-E168, Hz, Plan #3
in #1 V0	WOOLLEY 22-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2E-7H-E168, Hz, Plan #3
NG), ENCANA WELL, SURVEYS V0	WOOLLEY 2-4-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2F-7H-E168, Hz, Plan #3

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