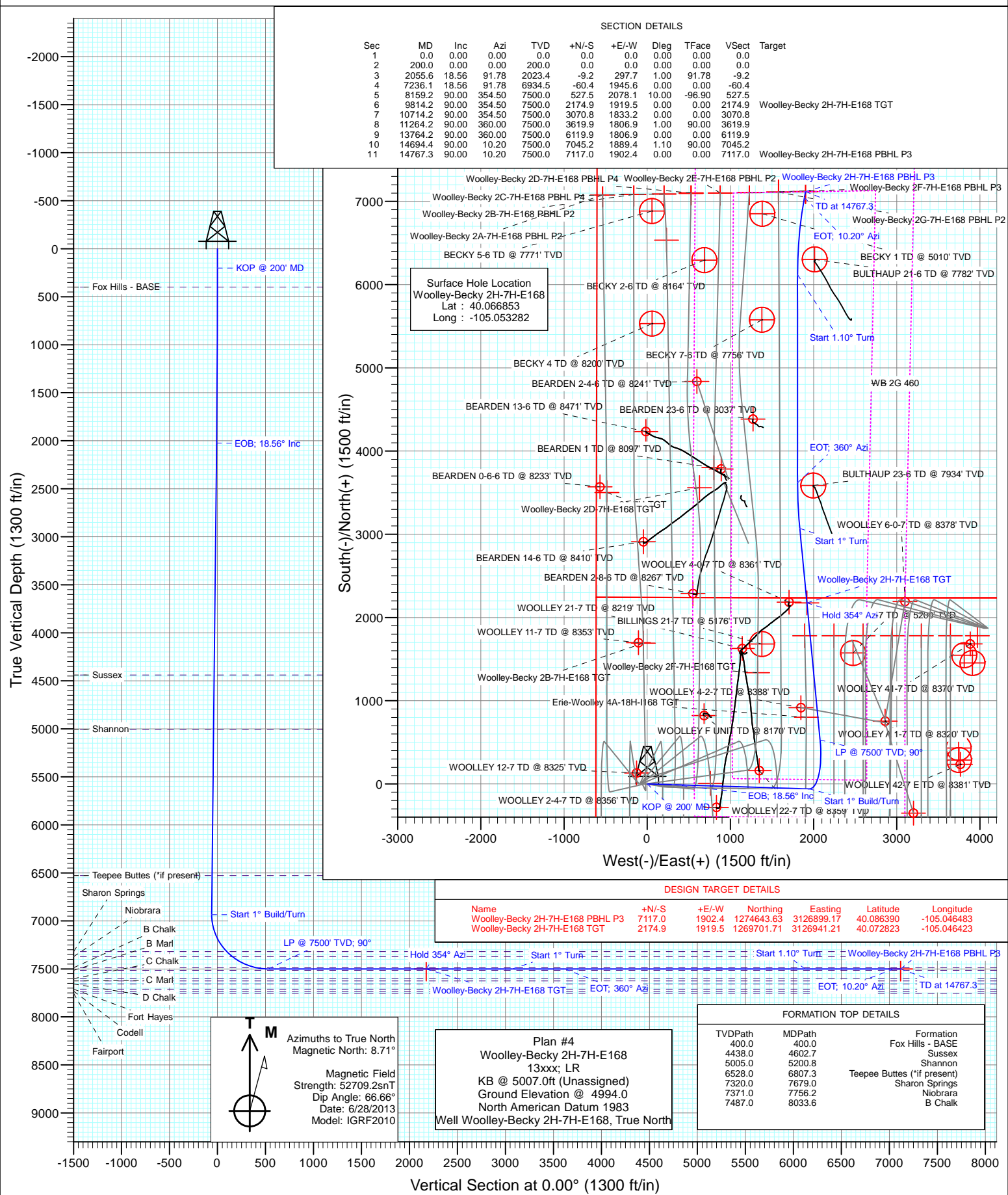




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2H-7H-E168
Wellbore: Hz
Design: Plan #4



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-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 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

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

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

Well	Woolley-Becky 2H-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.16 ft	Latitude:	40.066853
	+E/-W	0.0 ft	Easting:	3,125,032.69 ft	Longitude:	-105.053282
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,994.0 ft

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

Design	Plan #4			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,055.6	18.56	91.78	2,023.4	-9.2	297.7	1.00	1.00	0.00	91.78	
7,236.1	18.56	91.78	6,934.5	-60.4	1,945.6	0.00	0.00	0.00	0.00	
8,159.2	90.00	354.50	7,500.0	527.5	2,078.1	10.00	7.74	-10.54	-96.90	
9,814.2	90.00	354.50	7,500.0	2,174.9	1,919.5	0.00	0.00	0.00	0.00	Woolley-Becky 2H-7H
10,714.2	90.00	354.50	7,500.0	3,070.8	1,833.2	0.00	0.00	0.00	0.00	
11,264.2	90.00	360.00	7,500.0	3,619.9	1,806.9	1.00	0.00	1.00	90.00	
13,764.2	90.00	360.00	7,500.0	6,119.9	1,806.9	0.00	0.00	0.00	0.00	
14,694.4	90.00	10.20	7,500.0	7,045.2	1,889.4	1.10	0.00	1.10	90.00	
14,767.3	90.00	10.20	7,500.0	7,117.0	1,902.4	0.00	0.00	0.00	0.00	Woolley-Becky 2H-7H

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-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 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200' MD
300.0	1.00	91.78	300.0	0.0	0.9	0.0	1.00	1.00	
400.0	2.00	91.78	400.0	-0.1	3.5	-0.1	1.00	1.00	Fox Hills - BASE
500.0	3.00	91.78	499.9	-0.2	7.8	-0.2	1.00	1.00	
600.0	4.00	91.78	599.7	-0.4	14.0	-0.4	1.00	1.00	
700.0	5.00	91.78	699.4	-0.7	21.8	-0.7	1.00	1.00	
800.0	6.00	91.78	798.9	-1.0	31.4	-1.0	1.00	1.00	
900.0	7.00	91.78	898.3	-1.3	42.7	-1.3	1.00	1.00	
1,000.0	8.00	91.78	997.4	-1.7	55.7	-1.7	1.00	1.00	
1,100.0	9.00	91.78	1,096.3	-2.2	70.5	-2.2	1.00	1.00	
1,200.0	10.00	91.78	1,194.9	-2.7	87.0	-2.7	1.00	1.00	
1,300.0	11.00	91.78	1,293.3	-3.3	105.2	-3.3	1.00	1.00	
1,400.0	12.00	91.78	1,391.2	-3.9	125.1	-3.9	1.00	1.00	
1,500.0	13.00	91.78	1,488.9	-4.6	146.8	-4.6	1.00	1.00	
1,600.0	14.00	91.78	1,586.1	-5.3	170.1	-5.3	1.00	1.00	
1,700.0	15.00	91.78	1,682.9	-6.1	195.1	-6.1	1.00	1.00	
1,800.0	16.00	91.78	1,779.3	-6.9	221.8	-6.9	1.00	1.00	
1,900.0	17.00	91.78	1,875.2	-7.8	250.2	-7.8	1.00	1.00	
2,000.0	18.00	91.78	1,970.5	-8.7	280.3	-8.7	1.00	1.00	
2,055.6	18.56	91.78	2,023.4	-9.2	297.7	-9.2	1.00	1.00	EOB; 18.56° Inc
2,100.0	18.56	91.78	2,065.4	-9.7	311.8	-9.7	0.00	0.00	
2,200.0	18.56	91.78	2,160.2	-10.7	343.7	-10.7	0.00	0.00	
2,300.0	18.56	91.78	2,255.0	-11.7	375.5	-11.7	0.00	0.00	
2,400.0	18.56	91.78	2,349.8	-12.6	407.3	-12.6	0.00	0.00	
2,500.0	18.56	91.78	2,444.6	-13.6	439.1	-13.6	0.00	0.00	
2,600.0	18.56	91.78	2,539.4	-14.6	470.9	-14.6	0.00	0.00	
2,700.0	18.56	91.78	2,634.2	-15.6	502.7	-15.6	0.00	0.00	
2,800.0	18.56	91.78	2,729.0	-16.6	534.5	-16.6	0.00	0.00	
2,900.0	18.56	91.78	2,823.8	-17.6	566.3	-17.6	0.00	0.00	
3,000.0	18.56	91.78	2,918.6	-18.6	598.1	-18.6	0.00	0.00	
3,100.0	18.56	91.78	3,013.4	-19.5	629.9	-19.5	0.00	0.00	
3,200.0	18.56	91.78	3,108.2	-20.5	661.7	-20.5	0.00	0.00	
3,300.0	18.56	91.78	3,203.0	-21.5	693.5	-21.5	0.00	0.00	
3,400.0	18.56	91.78	3,297.8	-22.5	725.4	-22.5	0.00	0.00	
3,500.0	18.56	91.78	3,392.6	-23.5	757.2	-23.5	0.00	0.00	
3,600.0	18.56	91.78	3,487.4	-24.5	789.0	-24.5	0.00	0.00	
3,700.0	18.56	91.78	3,582.2	-25.5	820.8	-25.5	0.00	0.00	
3,800.0	18.56	91.78	3,677.0	-26.5	852.6	-26.5	0.00	0.00	
3,900.0	18.56	91.78	3,771.8	-27.4	884.4	-27.4	0.00	0.00	
4,000.0	18.56	91.78	3,866.6	-28.4	916.2	-28.4	0.00	0.00	
4,100.0	18.56	91.78	3,961.4	-29.4	948.0	-29.4	0.00	0.00	
4,200.0	18.56	91.78	4,056.2	-30.4	979.8	-30.4	0.00	0.00	
4,300.0	18.56	91.78	4,151.0	-31.4	1,011.6	-31.4	0.00	0.00	
4,400.0	18.56	91.78	4,245.8	-32.4	1,043.4	-32.4	0.00	0.00	
4,500.0	18.56	91.78	4,340.6	-33.4	1,075.2	-33.4	0.00	0.00	
4,600.0	18.56	91.78	4,435.4	-34.4	1,107.1	-34.4	0.00	0.00	
4,602.7	18.56	91.78	4,438.0	-34.4	1,107.9	-34.4	0.00	0.00	Sussex
4,700.0	18.56	91.78	4,530.3	-35.3	1,138.9	-35.3	0.00	0.00	
4,800.0	18.56	91.78	4,625.1	-36.3	1,170.7	-36.3	0.00	0.00	
4,900.0	18.56	91.78	4,719.9	-37.3	1,202.5	-37.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-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 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	18.56	91.78	4,814.7	-38.3	1,234.3	-38.3	0.00	0.00	
5,100.0	18.56	91.78	4,909.5	-39.3	1,266.1	-39.3	0.00	0.00	
5,200.0	18.56	91.78	5,004.3	-40.3	1,297.9	-40.3	0.00	0.00	
5,200.8	18.56	91.78	5,005.0	-40.3	1,298.2	-40.3	0.00	0.00	Shannon
5,300.0	18.56	91.78	5,099.1	-41.3	1,329.7	-41.3	0.00	0.00	
5,400.0	18.56	91.78	5,193.9	-42.3	1,361.5	-42.3	0.00	0.00	
5,500.0	18.56	91.78	5,288.7	-43.2	1,393.3	-43.2	0.00	0.00	
5,600.0	18.56	91.78	5,383.5	-44.2	1,425.1	-44.2	0.00	0.00	
5,700.0	18.56	91.78	5,478.3	-45.2	1,457.0	-45.2	0.00	0.00	
5,800.0	18.56	91.78	5,573.1	-46.2	1,488.8	-46.2	0.00	0.00	
5,900.0	18.56	91.78	5,667.9	-47.2	1,520.6	-47.2	0.00	0.00	
6,000.0	18.56	91.78	5,762.7	-48.2	1,552.4	-48.2	0.00	0.00	
6,100.0	18.56	91.78	5,857.5	-49.2	1,584.2	-49.2	0.00	0.00	
6,200.0	18.56	91.78	5,952.3	-50.2	1,616.0	-50.2	0.00	0.00	
6,300.0	18.56	91.78	6,047.1	-51.1	1,647.8	-51.1	0.00	0.00	
6,400.0	18.56	91.78	6,141.9	-52.1	1,679.6	-52.1	0.00	0.00	
6,500.0	18.56	91.78	6,236.7	-53.1	1,711.4	-53.1	0.00	0.00	
6,600.0	18.56	91.78	6,331.5	-54.1	1,743.2	-54.1	0.00	0.00	
6,700.0	18.56	91.78	6,426.3	-55.1	1,775.0	-55.1	0.00	0.00	
6,800.0	18.56	91.78	6,521.1	-56.1	1,806.8	-56.1	0.00	0.00	
6,807.3	18.56	91.78	6,528.0	-56.1	1,809.2	-56.1	0.00	0.00	Teepee Buttes (*if present)
6,900.0	18.56	91.78	6,615.9	-57.1	1,838.7	-57.1	0.00	0.00	
7,000.0	18.56	91.78	6,710.7	-58.0	1,870.5	-58.0	0.00	0.00	
7,100.0	18.56	91.78	6,805.5	-59.0	1,902.3	-59.0	0.00	0.00	
7,200.0	18.56	91.78	6,900.3	-60.0	1,934.1	-60.0	0.00	0.00	
7,236.1	18.56	91.78	6,934.5	-60.4	1,945.6	-60.4	0.00	0.00	Start 1° Build/Turn
7,300.0	18.85	71.77	6,995.1	-57.5	1,965.6	-57.5	10.00	0.46	
7,400.0	23.03	46.05	7,088.7	-38.8	1,995.1	-38.8	10.00	4.19	
7,500.0	29.98	29.75	7,178.2	-3.4	2,021.6	-3.4	10.00	6.95	
7,600.0	38.20	19.53	7,261.0	47.5	2,044.4	47.5	10.00	8.22	
7,679.0	45.15	13.85	7,320.0	97.8	2,059.3	97.8	10.00	8.79	Sharon Springs
7,700.0	47.04	12.57	7,334.6	112.6	2,062.7	112.6	10.00	8.99	
7,756.2	52.15	9.50	7,371.0	154.6	2,070.9	154.6	10.00	9.10	Niobrara
7,800.0	56.18	7.39	7,396.6	189.7	2,076.1	189.7	10.00	9.21	
7,900.0	65.50	3.23	7,445.3	276.5	2,084.0	276.5	10.00	9.32	
8,000.0	74.92	359.65	7,479.2	370.4	2,086.3	370.4	10.00	9.42	
8,033.6	78.10	358.52	7,487.0	403.1	2,085.8	403.1	10.00	9.46	B Chalk
8,100.0	84.39	356.38	7,497.1	468.6	2,082.8	468.6	10.00	9.47	
8,159.2	90.00	354.50	7,500.0	527.5	2,078.1	527.5	10.00	9.49	LP @ 7500' TVD; 90°
8,200.0	90.00	354.50	7,500.0	568.2	2,074.2	568.2	0.00	0.00	
8,300.0	90.00	354.50	7,500.0	667.7	2,064.6	667.7	0.00	0.00	
8,400.0	90.00	354.50	7,500.0	767.2	2,055.0	767.2	0.00	0.00	
8,500.0	90.00	354.50	7,500.0	866.8	2,045.5	866.8	0.00	0.00	
8,600.0	90.00	354.50	7,500.0	966.3	2,035.9	966.3	0.00	0.00	
8,700.0	90.00	354.50	7,500.0	1,065.9	2,026.3	1,065.9	0.00	0.00	
8,800.0	90.00	354.50	7,500.0	1,165.4	2,016.7	1,165.4	0.00	0.00	
8,900.0	90.00	354.50	7,500.0	1,264.9	2,007.1	1,264.9	0.00	0.00	
9,000.0	90.00	354.50	7,500.0	1,364.5	1,997.5	1,364.5	0.00	0.00	
9,100.0	90.00	354.50	7,500.0	1,464.0	1,988.0	1,464.0	0.00	0.00	
9,200.0	90.00	354.50	7,500.0	1,563.6	1,978.4	1,563.6	0.00	0.00	
9,300.0	90.00	354.50	7,500.0	1,663.1	1,968.8	1,663.1	0.00	0.00	
9,400.0	90.00	354.50	7,500.0	1,762.6	1,959.2	1,762.6	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,500.0	90.00	354.50	7,500.0	1,862.2	1,949.6	1,862.2	0.00	0.00	
9,600.0	90.00	354.50	7,500.0	1,961.7	1,940.0	1,961.7	0.00	0.00	
9,700.0	90.00	354.50	7,500.0	2,061.3	1,930.4	2,061.3	0.00	0.00	
9,800.0	90.00	354.50	7,500.0	2,160.8	1,920.9	2,160.8	0.00	0.00	
9,814.2	90.00	354.50	7,500.0	2,174.9	1,919.5	2,174.9	0.00	0.00	Hold 354° Azi
9,900.0	90.00	354.50	7,500.0	2,260.3	1,911.3	2,260.3	0.00	0.00	
10,000.0	90.00	354.50	7,500.0	2,359.9	1,901.7	2,359.9	0.00	0.00	
10,100.0	90.00	354.50	7,500.0	2,459.4	1,892.1	2,459.4	0.00	0.00	
10,200.0	90.00	354.50	7,500.0	2,559.0	1,882.5	2,559.0	0.00	0.00	
10,300.0	90.00	354.50	7,500.0	2,658.5	1,872.9	2,658.5	0.00	0.00	
10,400.0	90.00	354.50	7,500.0	2,758.0	1,863.4	2,758.0	0.00	0.00	
10,500.0	90.00	354.50	7,500.0	2,857.6	1,853.8	2,857.6	0.00	0.00	
10,600.0	90.00	354.50	7,500.0	2,957.1	1,844.2	2,957.1	0.00	0.00	
10,700.0	90.00	354.50	7,500.0	3,056.7	1,834.6	3,056.7	0.00	0.00	
10,714.2	90.00	354.50	7,500.0	3,070.8	1,833.2	3,070.8	0.00	0.00	Start 1° Turn
10,800.0	90.00	355.36	7,500.0	3,156.3	1,825.7	3,156.3	1.00	0.00	
10,900.0	90.00	356.36	7,500.0	3,256.0	1,818.4	3,256.0	1.00	0.00	
11,000.0	90.00	357.36	7,500.0	3,355.8	1,813.0	3,355.8	1.00	0.00	
11,100.0	90.00	358.36	7,500.0	3,455.8	1,809.2	3,455.8	1.00	0.00	
11,200.0	90.00	359.36	7,500.0	3,555.7	1,807.2	3,555.7	1.00	0.00	
11,264.2	90.00	360.00	7,500.0	3,619.9	1,806.9	3,619.9	1.00	0.00	EOT; 360° Azi
11,300.0	90.00	360.00	7,500.0	3,655.7	1,806.9	3,655.7	0.00	0.00	
11,400.0	90.00	360.00	7,500.0	3,755.7	1,806.9	3,755.7	0.00	0.00	
11,500.0	90.00	360.00	7,500.0	3,855.7	1,806.9	3,855.7	0.00	0.00	
11,600.0	90.00	360.00	7,500.0	3,955.7	1,806.9	3,955.7	0.00	0.00	
11,700.0	90.00	360.00	7,500.0	4,055.7	1,806.9	4,055.7	0.00	0.00	
11,800.0	90.00	360.00	7,500.0	4,155.7	1,806.9	4,155.7	0.00	0.00	
11,900.0	90.00	360.00	7,500.0	4,255.7	1,806.9	4,255.7	0.00	0.00	
12,000.0	90.00	360.00	7,500.0	4,355.7	1,806.9	4,355.7	0.00	0.00	
12,100.0	90.00	360.00	7,500.0	4,455.7	1,806.9	4,455.7	0.00	0.00	
12,200.0	90.00	360.00	7,500.0	4,555.7	1,806.9	4,555.7	0.00	0.00	
12,300.0	90.00	360.00	7,500.0	4,655.7	1,806.9	4,655.7	0.00	0.00	
12,400.0	90.00	360.00	7,500.0	4,755.7	1,806.9	4,755.7	0.00	0.00	
12,500.0	90.00	360.00	7,500.0	4,855.7	1,806.9	4,855.7	0.00	0.00	
12,600.0	90.00	360.00	7,500.0	4,955.7	1,806.9	4,955.7	0.00	0.00	
12,700.0	90.00	360.00	7,500.0	5,055.7	1,806.9	5,055.7	0.00	0.00	
12,800.0	90.00	360.00	7,500.0	5,155.7	1,806.9	5,155.7	0.00	0.00	
12,900.0	90.00	360.00	7,500.0	5,255.7	1,806.9	5,255.7	0.00	0.00	
13,000.0	90.00	360.00	7,500.0	5,355.7	1,806.9	5,355.7	0.00	0.00	
13,100.0	90.00	360.00	7,500.0	5,455.7	1,806.9	5,455.7	0.00	0.00	
13,200.0	90.00	360.00	7,500.0	5,555.7	1,806.9	5,555.7	0.00	0.00	
13,300.0	90.00	360.00	7,500.0	5,655.7	1,806.9	5,655.7	0.00	0.00	
13,400.0	90.00	360.00	7,500.0	5,755.7	1,806.9	5,755.7	0.00	0.00	
13,500.0	90.00	360.00	7,500.0	5,855.7	1,806.9	5,855.7	0.00	0.00	
13,600.0	90.00	360.00	7,500.0	5,955.7	1,806.9	5,955.7	0.00	0.00	
13,700.0	90.00	360.00	7,500.0	6,055.7	1,806.9	6,055.7	0.00	0.00	
13,764.2	90.00	360.00	7,500.0	6,119.9	1,806.9	6,119.9	0.00	0.00	Start 1.10° Turn
13,800.0	90.00	0.39	7,500.0	6,155.7	1,807.0	6,155.7	1.10	0.00	
13,900.0	90.00	1.49	7,500.0	6,255.7	1,808.6	6,255.7	1.10	0.00	
14,000.0	90.00	2.59	7,500.0	6,355.7	1,812.2	6,355.7	1.10	0.00	
14,100.0	90.00	3.68	7,500.0	6,455.5	1,817.7	6,455.5	1.10	0.00	
14,200.0	90.00	4.78	7,500.0	6,555.2	1,825.0	6,555.2	1.10	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-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 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #4		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
14,300.0	90.00	5.88	7,500.0	6,654.8	1,834.3	6,654.8	1.10	0.00	
14,400.0	90.00	6.97	7,500.0	6,754.2	1,845.5	6,754.2	1.10	0.00	
14,500.0	90.00	8.07	7,500.0	6,853.3	1,858.6	6,853.3	1.10	0.00	
14,600.0	90.00	9.16	7,500.0	6,952.2	1,873.6	6,952.2	1.10	0.00	
14,694.4	90.00	10.20	7,500.0	7,045.2	1,889.4	7,045.2	1.10	0.00	EOT; 10.20° Azi
14,700.0	90.00	10.20	7,500.0	7,050.7	1,890.4	7,050.7	0.00	0.00	
14,767.3	90.00	10.20	7,500.0	7,117.0	1,902.4	7,117.0	0.00	0.00	TD at 14767.3

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Woolley-Becky 2H-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	2,174.9	1,919.5	1,269,701.71	3,126,941.21	40.072823	-105.046423
Woolley-Becky 2H-7H-E - plan misses target center by 35.0ft at 14767.3ft MD (7500.0 TVD, 7117.0 N, 1902.4 E) - Point	0.00	0.00	7,535.0	7,117.0	1,903.2	1,274,643.64	3,126,900.01	40.086390	-105.046480
Woolley-Becky 2H-7H-E - plan hits target center - Point	0.00	0.00	7,500.0	7,117.0	1,902.4	1,274,643.63	3,126,899.17	40.086390	-105.046483

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
400.0	400.0	Fox Hills - BASE			
4,602.7	4,438.0	Sussex			
5,200.8	5,005.0	Shannon			
6,807.3	6,528.0	Teepee Buttes (*if present)			
7,679.0	7,320.0	Sharon Springs			
7,756.2	7,371.0	Niobrara			
8,033.6	7,487.0	B Chalk			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2H-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 2H-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #4		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200' MD
2,055.6	2,023.4	-9.2	297.7	EOB; 18.56° Inc
7,236.1	6,934.5	-60.4	1,945.6	Start 1° Build/Turn
8,159.2	7,500.0	527.5	2,078.1	LP @ 7500' TVD; 90°
9,814.2	7,500.0	2,174.9	1,919.5	Hold 354° Azi
10,714.2	7,500.0	3,070.8	1,833.2	Start 1° Turn
11,264.2	7,500.0	3,619.9	1,806.9	EOT; 360° Azi
13,764.2	7,500.0	6,119.9	1,806.9	Start 1.10° Turn
14,694.4	7,500.0	7,045.2	1,889.4	EOT; 10.20° Azi
14,767.3	7,500.0	7,117.0	1,902.4	TD at 14767.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2H-7H-E168

Hz

Plan #4

Anticollision Report

24 June, 2015

Cathedral Energy Services

Anticollision Report

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

Reference	Plan #4		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	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	14,767.3	Plan #4 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

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

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S18-T1N-R68W (Erie Woolley)						
Erie-Woolley 4A-18H-I168 - Hz - Plan #2	9,424.0	15,498.1	65.2	-109.0	0.374	Level 1, CC, ES, SF
Erie-Woolley 4B-18H-I168 - Hz - Plan #2	8,144.0	14,396.4	286.2	203.8	3.474	CC, ES
Erie-Woolley 4B-18H-I168 - Hz - Plan #2	9,400.0	15,646.6	369.4	231.5	2.678	SF
Erie-Woolley 4C-18H-I168 - Hz - Plan #2	8,001.7	13,980.3	508.9	377.4	3.867	CC, ES
Erie-Woolley 4C-18H-I168 - Hz - Plan #2	9,400.0	15,370.9	635.7	459.8	3.615	SF
Erie-Woolley 4D-18H-I168 - Hz - Plan #2	8,054.1	14,230.0	875.9	748.2	6.859	CC
Erie-Woolley 4D-18H-I168 - Hz - Plan #2	8,100.0	14,275.3	877.0	747.8	6.787	ES
Erie-Woolley 4D-18H-I168 - Hz - Plan #2	9,500.0	15,598.2	1,025.2	850.5	5.868	SF
Erie-Woolley 4E-18H-I168 - Hz - Plan #2						Out of range
Erie-Woolley 4F-18H-I168 - Hz - Plan #2						Out of range
THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,100.0	7,549.0	804.6	756.7	16.828	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU	9,288.8	7,549.0	782.1	738.5	17.942	CC, ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,489.6	5,571.8	221.1	184.7	6.078	CC
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,500.0	5,581.0	221.1	184.7	6.067	ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,600.0	5,671.4	225.3	187.8	6.016	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,306.8	4,566.8	130.2	92.7	3.474	CC, ES, SF
WOOLLEY 31-7 (EXISTING) - ENCANA WELL - PLAN O	9,318.7	7,641.8	495.8	442.9	9.378	CC, ES
WOOLLEY 31-7 (EXISTING) - ENCANA WELL - PLAN O	9,500.0	7,641.8	527.9	464.1	8.274	SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,700.0	7,633.6	255.5	186.2	3.688	SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,800.0	7,635.9	222.9	163.4	3.748	ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,827.8	7,636.5	221.2	166.1	4.012	CC
WOOLLEY 41-7 (EXISTING) - ENCANA WELL - NO SU						Out of range
WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN	8,500.0	7,639.0	203.8	162.1	4.893	SF
WOOLLEY 4-2-7 (EXISTING) - ENCANA WELL - PLAN	8,568.8	7,639.0	191.8	157.9	5.645	CC, ES
WOOLLEY 42-7 ENCANA (EXISTING) - ENCANA WELL						Out of range
WOOLLEY 6-0-7 (EXISTING) - ENCANA WELL - PLAN						Out of range
WOOLLEY 6-4-7 (EXISTING) - ENCANA WELL - PLAN						Out of range
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,309.6	7,549.0	799.7	769.8	26.746	CC, ES
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,900.0	7,549.0	994.0	939.8	18.315	SF
S6-T1N-R68W (Bearden)						
Bearden #1 (Existing Well) - Existing - Existing	11,000.0	7,466.9	692.4	613.0	8.720	SF
Bearden #1 (Existing Well) - Existing - Existing	11,100.0	7,467.9	681.2	603.9	8.818	ES
Bearden #1 (Existing Well) - Existing - Existing	11,119.1	7,468.0	680.9	604.2	8.878	CC
Bearden 13-6 (Existing Well) - DD - DD						Out of range
Bearden 14-6(Existing Well) - DD - DD						Out of range
Bearden 24-6 - DD - Plan #1	10,500.0	7,557.8	639.6	566.5	8.745	SF
Bearden 24-6 - DD - Plan #1	10,594.8	7,557.8	632.5	562.1	8.982	CC, ES

Cathedral Energy Services

Anticollision Report

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,300.0	7,465.5	928.7	844.7	11.050	SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,400.0	7,466.4	921.3	838.4	11.114	ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,418.1	7,466.6	921.2	838.6	11.150	CC
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	11,900.0	7,463.3	550.1	454.8	5.771	SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,000.0	7,468.2	540.7	448.0	5.837	ES
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,001.7	7,468.3	540.6	448.1	5.841	CC
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O						Out of range
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,900.0	7,453.0	1,122.9	996.5	8.884	ES, SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,907.5	7,453.0	1,122.9	996.5	8.888	CC
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV						Out of range
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU						Out of range
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,200.0	7,454.0	429.0	314.3	3.741	ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,221.8	7,454.0	428.5	314.9	3.772	CC
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	13,947.8	7,563.8	206.3	74.1	1.561	CC, ES, SF
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,222.0	7,610.0	188.0	104.4	2.248	CC, ES
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,300.0	7,611.1	203.0	112.2	2.237	SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	8,000.0	9,276.3	287.6	241.4	6.224	SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	8,015.6	9,261.2	287.5	241.3	6.225	CC, ES
Morgan Hills 1B-7H-A168 - HZ - Plan #2	8,086.1	9,374.4	592.6	550.2	13.971	CC, ES
Morgan Hills 1B-7H-A168 - HZ - Plan #2	9,900.0	7,700.0	792.7	728.2	12.283	SF
Morgan Hills 1C-7H-A168 - HZ - Plan #2	7,994.8	9,178.9	830.7	784.1	17.837	CC, ES
Morgan Hills 1C-7H-A168 - HZ - Plan #2	9,700.0	7,637.6	1,034.0	975.3	17.615	SF
Morgan Hills 1D-7H-A168 - HZ - Plan #2						Out of range
Morgan Hills 1E-7H-A168 - HZ - Plan #2						Out of range
Morgan Hills 1F-7H-A168 - HZ - Plan #2						Out of range
THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS	200.0	188.0	989.3	988.6	1,511.022	CC
Thomas 7-12 (Existing) - Existing - NO SURVEYS	400.0	388.0	989.6	988.2	728.232	ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	1,300.0	1,281.3	1,003.8	998.6	191.801	SF
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURV						Out of range
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	200.0	288.0	184.1	183.3	222.017	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	1,500.0	1,576.9	307.2	301.6	54.929	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,100.0	7,580.0	870.1	821.4	17.868	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,300.0	7,584.4	840.0	795.0	18.683	ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,328.6	7,585.0	839.5	795.2	18.941	CC
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,489.6	5,571.8	221.1	184.7	6.078	CC
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,500.0	5,581.0	221.1	184.7	6.067	ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	5,600.0	5,671.4	225.3	187.8	6.016	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,306.8	4,566.8	130.2	92.7	3.474	CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,700.0	7,633.6	255.5	186.2	3.688	SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,800.0	7,635.9	222.9	163.4	3.748	ES
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,827.8	7,636.5	221.2	166.1	4.012	CC
WOOLLEY 41-7 (EXISTING) - ENCANA WELL - NO SU						Out of range
WOOLLEY 42-7 (EXISTING) - ENCANA WELL - NO SU						Out of range
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,309.6	7,549.0	799.7	769.8	26.746	CC, ES
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,900.0	7,549.0	994.0	939.8	18.315	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	3,319.1	3,253.2	846.1	826.2	42.581	CC
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	3,400.0	3,327.5	846.6	826.1	41.318	ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	4,600.0	4,462.0	948.8	920.9	33.972	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	200.0	200.0	52.3	51.7	80.181	CC, ES

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

Cathedral Energy Services

Anticollision Report

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

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Becky 2A-7H-E168 - Hz - Plan #3	600.0	595.1	78.5	76.4	38.343	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	200.0	200.0	45.1	44.4	69.034	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	800.0	798.5	86.0	83.3	31.147	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	200.0	200.0	37.5	36.9	57.457	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	1,000.0	1,002.1	80.0	76.5	23.187	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	200.0	200.0	29.9	29.3	45.881	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	1,100.0	1,104.0	69.4	65.6	18.261	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	200.0	200.0	22.4	21.7	34.306	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	14,700.0	14,674.6	1,042.2	794.7	4.212	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	200.0	200.0	14.8	14.2	22.725	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	14,600.0	14,234.2	655.6	402.5	2.590	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	200.0	200.0	7.6	6.9	11.577	CC, ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	14,600.0	14,691.4	380.7	185.0	1.945	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #3	200.0	200.0	105.0	104.3	160.792	CC, ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #3	1,000.0	984.4	196.5	193.0	55.823	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #3	200.0	200.0	97.4	96.7	149.215	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #3	1,000.0	989.0	177.6	174.2	51.054	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #3	200.0	200.0	89.8	89.2	137.639	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #3	1,200.0	1,199.1	162.4	158.0	37.136	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #3	200.0	200.0	82.6	81.9	126.491	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #3	1,400.0	1,402.0	174.5	169.3	33.373	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #4	200.0	200.0	75.0	74.4	114.915	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #4	1,000.0	997.4	130.8	127.3	38.012	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #3	200.0	200.0	67.5	66.8	103.339	CC, ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #3	1,800.0	1,810.1	143.6	135.4	17.411	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #3	109.5	109.5	59.9	59.6	177.840	CC
Woolley-Sosa 2G-7H-E168 - HZ - Plan #3	200.0	200.0	59.9	59.2	91.663	ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #3	3,300.0	3,300.1	326.7	303.9	14.318	SF

Cathedral Energy Services

Anticollision Report

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

Offset Design 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	
6,800.0	6,521.1	13,660.6	7,582.0	35.3	111.6	-179.42	-56.9	1,905.2	976.9	945.3	31.57	30.943	
6,900.0	6,615.9	13,659.9	7,582.0	35.9	111.6	-179.60	-57.6	1,905.1	879.6	849.0	30.66	28.687	
7,000.0	6,710.7	13,659.2	7,582.0	36.5	111.6	-179.79	-58.3	1,905.1	783.1	753.2	29.89	26.197	
7,100.0	6,805.5	13,658.5	7,582.0	37.1	111.6	-179.98	-59.1	1,905.1	687.5	657.9	29.58	23.241	
7,200.0	6,900.3	13,657.8	7,582.0	37.7	111.5	-179.83	-59.8	1,905.1	593.4	563.0	30.43	19.504	
7,300.0	6,995.1	13,660.6	7,582.0	38.3	111.6	-174.85	-56.9	1,905.2	501.6	467.9	33.66	14.903	
7,400.0	7,088.7	13,679.5	7,582.0	38.9	111.9	-163.86	-38.0	1,905.3	414.2	373.5	40.71	10.173	
7,500.0	7,178.2	13,715.1	7,582.0	39.3	112.5	-153.88	-2.4	1,905.6	335.5	282.6	52.84	6.349	
7,600.0	7,261.0	13,766.3	7,582.0	39.8	113.4	-143.84	48.7	1,906.1	270.1	199.5	70.58	3.827	
7,700.0	7,334.6	13,831.5	7,582.0	40.2	114.5	-132.15	113.9	1,906.6	222.4	130.1	92.31	2.410	
7,800.0	7,396.6	13,908.7	7,582.0	40.5	115.8	-118.59	191.1	1,907.3	194.4	81.8	112.53	1.727	
7,900.0	7,445.3	13,995.6	7,582.0	40.9	117.3	-104.93	278.0	1,908.0	182.3	56.8	125.51	1.453 Level 3	
8,000.0	7,479.2	14,089.5	7,582.0	41.2	118.9	-94.09	372.0	1,908.8	178.0	46.6	131.44	1.354 Level 3	
8,100.0	7,497.1	14,187.7	7,582.0	41.5	120.5	-88.24	470.1	1,909.7	173.2	38.9	134.32	1.289 Level 3	
8,200.0	7,500.0	14,287.1	7,582.0	41.8	122.2	-87.54	569.6	1,910.5	163.8	26.7	137.09	1.195 Level 2	
8,300.0	7,500.0	14,386.6	7,582.0	42.1	123.9	-87.37	669.0	1,911.4	153.4	13.4	140.05	1.095 Level 2	
8,400.0	7,500.0	14,486.0	7,582.0	42.5	125.6	-87.18	768.5	1,912.2	143.0	-0.1	143.08	0.999 Level 1	
8,500.0	7,500.0	14,584.0	7,582.0	43.0	127.3	-86.97	866.4	1,912.7	132.9	-13.2	146.10	0.910 Level 1	
8,600.0	7,500.0	14,681.4	7,582.0	43.6	129.0	-86.77	963.8	1,911.6	124.5	-24.6	149.09	0.835 Level 1	
8,700.0	7,500.0	14,780.7	7,582.0	44.2	130.7	-86.57	1,063.1	1,909.3	117.2	-35.0	152.21	0.770 Level 1	
8,800.0	7,500.0	14,880.5	7,582.0	44.9	132.4	-86.34	1,162.8	1,906.9	110.0	-45.4	155.40	0.708 Level 1	
8,900.0	7,500.0	14,980.2	7,582.0	45.7	134.1	-86.09	1,262.5	1,904.6	102.8	-55.8	158.61	0.648 Level 1	
9,000.0	7,500.0	15,079.9	7,582.0	46.5	135.9	-85.79	1,362.2	1,902.2	95.6	-66.3	161.83	0.591 Level 1	
9,100.0	7,500.0	15,179.7	7,582.0	47.3	137.6	-85.44	1,461.9	1,899.9	88.4	-76.7	165.06	0.535 Level 1	
9,200.0	7,500.0	15,279.4	7,582.0	48.2	139.3	-85.04	1,561.7	1,897.6	81.1	-87.1	168.28	0.482 Level 1	
9,300.0	7,500.0	15,379.1	7,582.0	49.2	141.0	-84.55	1,661.4	1,895.2	73.9	-97.6	171.49	0.431 Level 1	
9,400.0	7,500.0	15,478.9	7,582.0	50.2	142.7	-83.96	1,761.1	1,892.9	66.7	-107.9	174.66	0.382 Level 1	
9,424.0	7,500.0	15,498.1	7,582.0	50.4	143.1	-83.83	1,780.3	1,892.4	65.2	-109.0	174.14	0.374 Level 1, CC, ES, SF	
9,500.0	7,500.0	15,498.1	7,582.0	51.2	143.1	-83.83	1,780.3	1,892.4	100.1	-22.0	122.07	0.820 Level 1	
9,600.0	7,500.0	15,498.1	7,582.0	52.3	143.1	-83.83	1,780.3	1,892.4	187.7	93.2	94.53	1.985	
9,700.0	7,500.0	15,498.1	7,582.0	53.4	143.1	-83.83	1,780.3	1,892.4	283.6	199.4	84.17	3.369	
9,800.0	7,500.0	15,498.1	7,582.0	54.5	143.1	-83.83	1,780.3	1,892.4	381.6	302.4	79.26	4.815	
9,900.0	7,500.0	15,498.1	7,582.0	55.7	143.1	-83.83	1,780.3	1,892.4	480.4	403.9	76.53	6.278	
10,000.0	7,500.0	15,498.1	7,582.0	56.9	143.1	-83.83	1,780.3	1,892.4	579.7	504.8	74.86	7.744	
10,100.0	7,500.0	15,498.1	7,582.0	58.1	143.1	-83.83	1,780.3	1,892.4	679.1	605.4	73.76	9.208	
10,200.0	7,500.0	15,498.1	7,582.0	59.4	143.1	-83.83	1,780.3	1,892.4	778.7	705.7	72.99	10.669	
10,300.0	7,500.0	15,498.1	7,582.0	60.7	143.1	-83.83	1,780.3	1,892.4	878.4	806.0	72.44	12.125	
10,400.0	7,500.0	15,498.1	7,582.0	62.0	143.1	-83.83	1,780.3	1,892.4	978.2	906.1	72.04	13.578	

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - Erie-Woolley 4B-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		
7,100.0	6,805.5	13,825.0	7,823.0	37.1	110.4	-19.90	-59.0	2,245.3	989.9	939.5	50.37	19.650		
7,200.0	6,900.3	13,824.0	7,823.0	37.7	110.3	-18.16	-60.0	2,245.3	889.9	839.1	50.76	17.531		
7,300.0	6,995.1	13,826.5	7,823.0	38.3	110.4	81.72	-57.4	2,245.3	790.1	738.8	51.28	15.406		
7,400.0	7,088.7	13,845.2	7,823.0	38.9	110.7	116.54	-38.7	2,245.3	692.2	640.0	52.20	13.259		
7,500.0	7,178.2	13,880.6	7,823.0	39.3	111.3	133.08	-3.4	2,245.3	599.1	545.4	53.67	11.163		
7,600.0	7,261.0	13,931.5	7,823.0	39.8	112.2	141.71	47.6	2,245.3	513.9	458.0	55.86	9.200		
7,700.0	7,334.6	13,996.5	7,823.0	40.2	113.3	146.11	112.6	2,245.3	439.1	380.2	58.97	7.447		
7,800.0	7,396.6	14,073.6	7,823.0	40.5	114.6	147.97	189.7	2,245.2	377.4	314.2	63.18	5.973		
7,900.0	7,445.3	14,160.5	7,823.0	40.9	116.1	148.13	276.5	2,245.2	330.6	262.2	68.46	4.830		
8,000.0	7,479.2	14,254.4	7,823.0	41.2	117.7	147.17	370.5	2,245.2	300.3	225.9	74.40	4.037		
8,100.0	7,497.1	14,352.6	7,823.0	41.5	119.4	145.61	468.7	2,245.2	287.2	207.1	80.13	3.584		
8,144.0	7,500.5	14,396.4	7,823.0	41.6	120.2	144.80	512.4	2,245.2	286.2	203.8	82.40	3.474 CC, ES		
8,200.0	7,500.0	14,452.1	7,823.0	41.8	121.1	143.97	568.2	2,245.2	289.8	205.0	84.80	3.418		
8,300.0	7,500.0	14,551.7	7,823.0	42.1	122.9	142.47	667.7	2,245.2	295.6	206.3	89.22	3.313		
8,400.0	7,500.0	14,651.2	7,823.0	42.5	124.6	141.04	767.3	2,245.2	301.5	207.8	93.67	3.219		
8,500.0	7,500.0	14,750.8	7,823.0	43.0	126.3	139.65	866.8	2,245.2	307.6	209.5	98.12	3.135		
8,600.0	7,500.0	14,850.3	7,823.0	43.6	128.0	138.33	966.3	2,245.1	313.9	211.3	102.59	3.060		
8,700.0	7,500.0	14,949.8	7,823.0	44.2	129.7	137.05	1,065.9	2,245.1	320.4	213.3	107.06	2.993		
8,800.0	7,500.0	15,049.4	7,823.0	44.9	131.4	135.83	1,165.4	2,245.1	327.0	215.5	111.52	2.932		
8,900.0	7,500.0	15,148.9	7,823.0	45.7	133.2	134.65	1,265.0	2,245.1	333.7	217.8	115.96	2.878		
9,000.0	7,500.0	15,248.5	7,823.0	46.5	134.9	133.52	1,364.5	2,245.1	340.6	220.2	120.40	2.829		
9,100.0	7,500.0	15,348.0	7,823.0	47.3	136.6	132.44	1,464.1	2,245.1	347.7	222.8	124.82	2.785		
9,200.0	7,500.0	15,447.5	7,823.0	48.2	138.3	131.40	1,563.6	2,245.1	354.8	225.6	129.21	2.746		
9,300.0	7,500.0	15,547.1	7,823.0	49.2	140.1	130.40	1,663.1	2,245.0	362.0	228.5	133.59	2.710		
9,400.0	7,500.0	15,646.6	7,823.0	50.2	141.8	129.44	1,762.7	2,245.0	369.4	231.5	137.94	2.678 SF		
9,500.0	7,500.0	15,664.3	7,823.0	51.2	142.1	129.27	1,780.3	2,245.0	385.6	244.2	141.46	2.726		
9,600.0	7,500.0	15,664.3	7,823.0	52.3	142.1	129.27	1,780.3	2,245.0	425.1	286.8	138.23	3.075		
9,700.0	7,500.0	15,664.3	7,823.0	53.4	142.1	129.27	1,780.3	2,245.0	482.3	351.2	131.14	3.678		
9,800.0	7,500.0	15,664.3	7,823.0	54.5	142.1	129.27	1,780.3	2,245.0	551.9	428.7	123.16	4.481		
9,900.0	7,500.0	15,664.3	7,823.0	55.7	142.1	129.27	1,780.3	2,245.0	629.7	513.9	115.77	5.439		
10,000.0	7,500.0	15,664.3	7,823.0	56.9	142.1	129.27	1,780.3	2,245.0	713.1	603.7	109.41	6.518		
10,100.0	7,500.0	15,664.3	7,823.0	58.1	142.1	129.27	1,780.3	2,245.0	800.3	696.2	104.10	7.688		
10,200.0	7,500.0	15,664.3	7,823.0	59.4	142.1	129.27	1,780.3	2,245.0	890.2	790.5	99.71	8.927		
10,300.0	7,500.0	15,664.3	7,823.0	60.7	142.1	129.27	1,780.3	2,245.0	982.0	885.9	96.10	10.219		
10,400.0	7,500.0	15,664.3	7,823.0	62.0	142.1	129.27	1,780.3	2,245.0	1,075.3	982.2	93.11	11.549		

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - Erie-Woolley 4C-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	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	
7,000.0	6,710.7	13,550.2	7,582.0	36.5	109.5	-2.95	-58.0	2,595.1	1,066.4	982.2	84.19	12.666		
7,100.0	6,805.5	13,549.2	7,582.0	37.1	109.5	-2.82	-58.9	2,595.1	976.1	888.5	87.60	11.142		
7,200.0	6,900.3	13,548.2	7,582.0	37.7	109.5	-2.69	-59.9	2,595.1	887.8	796.3	91.54	9.699		
7,300.0	6,995.1	13,550.8	7,582.0	38.3	109.5	25.92	-57.4	2,595.1	802.7	706.5	96.13	8.350		
7,400.0	7,088.7	13,569.5	7,582.0	38.9	109.9	60.10	-38.7	2,595.1	723.6	622.0	101.57	7.124		
7,500.0	7,178.2	13,604.8	7,582.0	39.3	110.5	79.83	-3.3	2,595.1	654.2	546.5	107.66	6.077		
7,600.0	7,261.0	13,655.8	7,582.0	39.8	111.3	89.86	47.6	2,595.1	597.6	483.6	113.92	5.245		
7,700.0	7,334.6	13,720.8	7,582.0	40.2	112.5	94.07	112.6	2,595.1	555.4	435.7	119.75	4.638		
7,800.0	7,396.6	13,797.9	7,582.0	40.5	113.8	94.76	189.7	2,595.1	527.9	403.2	124.63	4.235		
7,900.0	7,445.3	13,884.7	7,582.0	40.9	115.3	93.52	276.6	2,595.1	513.3	384.8	128.46	3.996		
8,000.0	7,479.2	13,978.7	7,582.0	41.2	116.9	91.59	370.5	2,595.0	509.0	377.4	131.55	3.869		
8,001.7	7,479.6	13,980.3	7,582.0	41.2	117.0	91.56	372.2	2,595.0	508.9	377.4	131.60	3.867 CC, ES		
8,100.0	7,497.1	14,076.9	7,582.0	41.5	118.6	89.90	468.7	2,595.0	512.2	377.8	134.37	3.812		
8,200.0	7,500.0	14,176.4	7,582.0	41.8	120.4	89.23	568.2	2,595.0	520.8	383.6	137.24	3.795		
8,300.0	7,500.0	14,275.9	7,582.0	42.1	122.1	89.24	667.8	2,595.0	530.4	390.2	140.19	3.783		
8,400.0	7,500.0	14,375.5	7,582.0	42.5	123.8	89.25	767.3	2,595.0	540.0	396.8	143.23	3.770		
8,500.0	7,500.0	14,475.0	7,582.0	43.0	125.6	89.27	866.9	2,595.0	549.6	403.2	146.34	3.755		
8,600.0	7,500.0	14,574.6	7,582.0	43.6	127.3	89.28	966.4	2,595.0	559.1	409.6	149.49	3.740		
8,700.0	7,500.0	14,674.1	7,582.0	44.2	129.0	89.29	1,065.9	2,595.0	568.7	416.0	152.69	3.724		
8,800.0	7,500.0	14,773.6	7,582.0	44.9	130.7	89.30	1,165.5	2,594.9	578.3	422.3	155.93	3.709		
8,900.0	7,500.0	14,873.2	7,582.0	45.7	132.5	89.31	1,265.0	2,594.9	587.8	428.6	159.20	3.693		
9,000.0	7,500.0	14,972.7	7,582.0	46.5	134.2	89.33	1,364.6	2,594.9	597.4	434.9	162.49	3.677		
9,100.0	7,500.0	15,072.3	7,582.0	47.3	135.9	89.34	1,464.1	2,594.9	607.0	441.2	165.80	3.661		
9,200.0	7,500.0	15,171.8	7,582.0	48.2	137.7	89.35	1,563.6	2,594.9	616.6	447.4	169.14	3.645		
9,300.0	7,500.0	15,271.3	7,582.0	49.2	139.4	89.36	1,663.2	2,594.9	626.1	453.6	172.49	3.630		
9,400.0	7,500.0	15,370.9	7,582.0	50.2	141.1	89.37	1,762.7	2,594.9	635.7	459.8	175.85	3.615 SF		
9,500.0	7,500.0	15,388.5	7,582.0	51.2	141.4	89.37	1,780.4	2,594.9	650.4	471.5	178.95	3.635		
9,600.0	7,500.0	15,388.5	7,582.0	52.3	141.4	89.37	1,780.4	2,594.9	679.5	500.8	178.69	3.803		
9,700.0	7,500.0	15,388.5	7,582.0	53.4	141.4	89.37	1,780.4	2,594.9	721.4	545.8	175.55	4.109		
9,800.0	7,500.0	15,388.5	7,582.0	54.5	141.4	89.37	1,780.4	2,594.9	774.0	603.4	170.55	4.538		
9,900.0	7,500.0	15,388.5	7,582.0	55.7	141.4	89.37	1,780.4	2,594.9	835.3	670.7	164.61	5.074		
10,000.0	7,500.0	15,388.5	7,582.0	56.9	141.4	89.37	1,780.4	2,594.9	903.5	745.1	158.38	5.705		
10,100.0	7,500.0	15,388.5	7,582.0	58.1	141.4	89.37	1,780.4	2,594.9	977.2	825.0	152.27	6.418		
10,200.0	7,500.0	15,388.5	7,582.0	59.4	141.4	89.37	1,780.4	2,594.9	1,055.3	908.8	146.49	7.204		
10,300.0	7,500.0	15,388.5	7,582.0	60.7	141.4	89.37	1,780.4	2,594.9	1,136.8	995.6	141.16	8.053		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - Erie-Woolley 4D-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	7,178.2	13,806.5	7,823.0	39.3	109.8	82.46	-11.2	2,921.7	1,057.4	952.8	104.55	10.114		
7,600.0	7,261.0	13,857.7	7,823.0	39.8	110.7	94.61	40.0	2,922.2	996.6	887.7	108.95	9.148		
7,700.0	7,334.6	13,919.0	7,823.0	40.2	111.8	101.51	101.3	2,922.8	947.9	834.5	113.38	8.361		
7,800.0	7,396.6	13,996.3	7,823.0	40.5	113.1	104.95	178.6	2,923.8	912.1	794.3	117.78	7.743		
7,900.0	7,445.3	14,083.2	7,823.0	40.9	114.6	106.36	265.5	2,924.9	888.8	766.9	121.95	7.288		
8,000.0	7,479.2	14,177.2	7,823.0	41.2	116.3	106.53	359.5	2,926.1	877.5	751.7	125.77	6.976		
8,054.1	7,490.9	14,230.0	7,823.0	41.3	117.2	106.30	412.3	2,926.8	875.9	748.2	127.70	6.859 CC		
8,100.0	7,497.1	14,275.3	7,823.0	41.5	118.0	105.97	457.6	2,927.4	877.0	747.8	129.21	6.787 ES		
8,200.0	7,500.0	14,374.7	7,823.0	41.8	119.7	105.34	557.0	2,928.7	885.8	753.5	132.25	6.698		
8,300.0	7,500.0	14,474.2	7,823.0	42.1	121.4	105.15	656.4	2,930.0	896.3	761.0	135.27	6.626		
8,400.0	7,500.0	14,573.6	7,823.0	42.5	123.2	104.97	755.8	2,931.3	906.8	768.4	138.36	6.554		
8,500.0	7,500.0	14,673.0	7,823.0	43.0	124.9	104.80	855.2	2,932.6	917.3	775.8	141.51	6.482		
8,600.0	7,500.0	14,772.4	7,823.0	43.6	126.6	104.63	954.6	2,933.9	927.8	783.1	144.71	6.412		
8,700.0	7,500.0	14,871.8	7,823.0	44.2	128.4	104.46	1,054.0	2,935.2	938.4	790.4	147.94	6.343		
8,800.0	7,500.0	14,971.2	7,823.0	44.9	130.1	104.30	1,153.4	2,936.5	948.9	797.7	151.21	6.276		
8,900.0	7,500.0	15,070.6	7,823.0	45.7	131.8	104.13	1,252.8	2,937.8	959.5	805.0	154.50	6.210		
9,000.0	7,500.0	15,170.0	7,823.0	46.5	133.5	103.98	1,352.2	2,939.1	970.0	812.2	157.82	6.146		
9,100.0	7,500.0	15,269.4	7,823.0	47.3	135.3	103.82	1,451.6	2,940.4	980.6	819.4	161.15	6.085		
9,200.0	7,500.0	15,368.8	7,823.0	48.2	137.0	103.67	1,551.0	2,941.7	991.2	826.7	164.51	6.025		
9,300.0	7,500.0	15,468.2	7,823.0	49.2	138.7	103.53	1,650.4	2,943.0	1,001.8	833.9	167.87	5.967		
9,400.0	7,500.0	15,567.6	7,823.0	50.2	140.5	103.38	1,749.8	2,944.3	1,012.3	841.1	171.25	5.911		
9,500.0	7,500.0	15,598.2	7,823.0	51.2	141.0	103.34	1,780.4	2,944.7	1,025.2	850.5	174.71	5.868 SF		
9,600.0	7,500.0	15,598.2	7,823.0	52.3	141.0	103.34	1,780.4	2,944.7	1,047.1	870.2	176.93	5.918		
9,700.0	7,500.0	15,598.2	7,823.0	53.4	141.0	103.34	1,780.4	2,944.7	1,077.9	900.1	177.74	6.065		
9,800.0	7,500.0	15,598.2	7,823.0	54.5	141.0	103.34	1,780.4	2,944.7	1,116.8	939.5	177.30	6.299		
9,900.0	7,500.0	15,598.2	7,823.0	55.7	141.0	103.34	1,780.4	2,944.7	1,163.0	987.1	175.88	6.612		

Cathedral Energy Services

Anticollision Report

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

Offset Design 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						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,600.0	7,500.0	7,549.0	7,549.0	43.6	13.2	-90.00	1,577.0	1,191.4	1,042.2	990.3	51.89	20.085	
8,700.0	7,500.0	7,549.0	7,549.0	44.2	13.2	-90.00	1,577.0	1,191.4	979.0	927.2	51.73	18.924	
8,800.0	7,500.0	7,549.0	7,549.0	44.9	13.2	-90.00	1,577.0	1,191.4	922.3	871.0	51.32	17.971	
8,900.0	7,500.0	7,549.0	7,549.0	45.7	13.2	-90.00	1,577.0	1,191.4	873.4	822.8	50.58	17.269	
9,000.0	7,500.0	7,549.0	7,549.0	46.5	13.2	-90.00	1,577.0	1,191.4	833.7	784.3	49.42	16.869	
9,100.0	7,500.0	7,549.0	7,549.0	47.3	13.2	-90.00	1,577.0	1,191.4	804.6	756.7	47.81	16.828 SF	
9,200.0	7,500.0	7,549.0	7,549.0	48.2	13.2	-90.00	1,577.0	1,191.4	787.1	741.4	45.74	17.208	
9,288.8	7,500.0	7,549.0	7,549.0	49.1	13.2	-90.00	1,577.0	1,191.4	782.1	738.5	43.59	17.942 CC, ES	
9,300.0	7,500.0	7,549.0	7,549.0	49.2	13.2	-90.00	1,577.0	1,191.4	782.2	738.9	43.30	18.063	
9,400.0	7,500.0	7,549.0	7,549.0	50.2	13.2	-90.00	1,577.0	1,191.4	790.0	749.3	40.66	19.427	
9,500.0	7,500.0	7,549.0	7,549.0	51.2	13.2	-90.00	1,577.0	1,191.4	810.1	772.1	38.05	21.293	
9,600.0	7,500.0	7,549.0	7,549.0	52.3	13.2	-90.00	1,577.0	1,191.4	841.7	806.0	35.68	23.589	
9,700.0	7,500.0	7,549.0	7,549.0	53.4	13.2	-90.00	1,577.0	1,191.4	883.6	849.8	33.76	26.173	
9,800.0	7,500.0	7,549.0	7,549.0	54.5	13.2	-90.00	1,577.0	1,191.4	934.3	902.0	32.38	28.858	
9,900.0	7,500.0	7,549.0	7,549.0	55.7	13.2	-90.00	1,577.0	1,191.4	992.6	961.0	31.54	31.466	

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEYS											Offset Site Error: 0.0 ft		
Survey Program: 71-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
3,100.0	3,013.4	3,449.8	3,308.8	12.9	16.7	-56.86	724.4	1,260.6	1,005.2	982.1	23.11	43.503	
3,200.0	3,108.2	3,521.0	3,376.2	13.5	17.1	-57.03	701.5	1,263.4	964.4	940.4	23.96	40.254	
3,300.0	3,203.0	3,595.0	3,446.5	14.1	17.6	-57.23	678.9	1,267.2	925.4	900.5	24.81	37.293	
3,400.0	3,297.8	3,674.5	3,522.2	14.7	18.0	-57.44	655.0	1,272.0	887.4	861.7	25.69	34.546	
3,500.0	3,392.6	3,752.9	3,597.0	15.3	18.4	-57.66	632.3	1,277.5	850.9	824.4	26.54	32.060	
3,600.0	3,487.4	3,840.3	3,681.3	15.9	18.8	-58.13	609.6	1,282.2	815.8	788.5	27.34	29.842	
3,700.0	3,582.2	3,962.0	3,799.1	16.5	19.4	-59.19	579.3	1,284.5	779.7	751.7	28.02	27.825	
3,800.0	3,677.0	4,067.7	3,900.4	17.1	20.0	-60.11	549.2	1,285.1	740.2	711.4	28.75	25.742	
3,900.0	3,771.8	4,148.0	3,977.0	17.7	20.4	-60.66	525.3	1,288.1	701.4	671.8	29.61	23.687	
4,000.0	3,866.6	4,259.1	4,082.2	18.3	21.1	-61.24	490.0	1,294.1	662.1	631.7	30.40	21.778	
4,100.0	3,961.4	4,363.3	4,179.8	18.9	21.8	-61.76	453.9	1,298.9	620.0	588.9	31.18	19.885	
4,200.0	4,056.2	4,452.4	4,263.1	19.5	22.4	-62.27	422.5	1,302.6	577.3	545.3	32.03	18.022	
4,300.0	4,151.0	4,531.8	4,337.6	20.1	22.8	-62.77	395.1	1,306.5	535.6	502.7	32.95	16.256	
4,400.0	4,245.8	4,609.7	4,411.3	20.7	23.3	-63.47	370.4	1,310.5	496.4	462.5	33.85	14.664	
4,500.0	4,340.6	4,694.4	4,492.1	21.3	23.7	-64.47	345.7	1,315.2	459.5	424.8	34.67	13.254	
4,600.0	4,435.4	4,785.1	4,579.0	21.9	24.2	-65.78	319.9	1,320.1	423.4	388.0	35.40	11.962	
4,700.0	4,530.3	4,877.5	4,667.9	22.5	24.7	-67.61	294.9	1,323.9	388.1	352.1	36.01	10.778	
4,800.0	4,625.1	4,966.4	4,753.6	23.1	25.1	-69.96	271.5	1,326.2	353.3	316.8	36.55	9.667	
4,900.0	4,719.9	5,050.7	4,835.3	23.7	25.5	-72.68	251.1	1,328.9	321.2	284.2	37.03	8.675	
5,000.0	4,814.7	5,135.9	4,918.5	24.4	25.8	-76.05	232.8	1,331.9	292.8	255.5	37.30	7.848	
5,100.0	4,909.5	5,222.7	5,003.8	25.0	26.1	-80.38	216.8	1,334.5	268.4	231.2	37.28	7.201	
5,200.0	5,004.3	5,311.9	5,091.9	25.6	26.4	-85.73	202.8	1,336.6	248.7	211.7	36.93	6.733	
5,300.0	5,099.1	5,402.4	5,181.5	26.2	26.6	-92.03	190.1	1,338.5	233.5	197.1	36.41	6.413	
5,400.0	5,193.9	5,492.0	5,270.4	26.8	26.8	-99.03	179.3	1,339.6	223.9	187.9	36.09	6.205	
5,489.6	5,278.8	5,571.8	5,349.7	27.3	27.0	-105.63	171.4	1,340.2	221.1	184.7	36.38	6.078 CC	
5,500.0	5,288.7	5,581.0	5,359.0	27.4	27.0	-106.41	170.6	1,340.2	221.1	184.7	36.45	6.067 ES	
5,600.0	5,383.5	5,671.4	5,449.1	28.0	27.2	-113.84	164.0	1,340.3	225.3	187.8	37.44	6.016 SF	
5,700.0	5,478.3	5,760.7	5,538.2	28.6	27.3	-120.48	159.6	1,341.1	235.4	196.9	38.54	6.107	
5,800.0	5,573.1	5,847.7	5,625.3	29.2	27.3	-126.04	158.1	1,341.9	251.7	212.2	39.43	6.383	
5,900.0	5,667.9	5,940.9	5,718.4	29.8	27.4	-131.44	158.0	1,340.6	273.0	232.9	40.10	6.808	
6,000.0	5,762.7	6,039.1	5,816.7	30.4	27.5	-136.17	157.8	1,340.4	295.6	255.0	40.58	7.284	
6,100.0	5,857.5	6,133.4	5,911.0	31.0	27.5	-139.96	157.6	1,341.0	319.2	278.3	40.88	7.806	
6,200.0	5,952.3	6,227.0	6,004.5	31.6	27.6	-143.16	157.9	1,341.6	344.3	303.2	41.10	8.379	
6,300.0	6,047.1	6,323.6	6,101.1	32.2	27.7	-145.97	158.4	1,342.4	370.4	329.2	41.27	8.976	
6,400.0	6,141.9	6,419.9	6,197.4	32.9	27.7	-148.40	158.8	1,343.5	396.8	355.4	41.40	9.584	
6,500.0	6,236.7	6,513.6	6,291.1	33.5	27.8	-150.48	159.2	1,344.5	423.9	382.4	41.51	10.210	
6,600.0	6,331.5	6,607.8	6,385.3	34.1	27.8	-152.35	159.5	1,345.2	451.7	410.1	41.62	10.854	
6,700.0	6,426.3	6,703.2	6,480.7	34.7	27.9	-154.05	159.7	1,345.8	480.0	438.3	41.72	11.505	
6,800.0	6,521.1	6,798.9	6,576.4	35.3	28.0	-155.57	159.8	1,346.5	508.5	466.7	41.83	12.157	
6,900.0	6,615.9	6,894.7	6,672.2	35.9	28.1	-156.94	159.8	1,347.2	537.2	495.2	41.94	12.807	
7,000.0	6,710.7	6,990.4	6,767.9	36.5	28.1	-158.18	159.7	1,348.1	566.0	523.9	42.06	13.456	
7,100.0	6,805.5	7,086.1	6,863.6	37.1	28.2	-159.31	159.4	1,349.0	594.9	552.7	42.19	14.101	
7,200.0	6,900.3	7,184.4	6,961.9	37.7	28.3	-160.37	158.9	1,350.1	623.7	581.4	42.34	14.732	
7,300.0	6,995.1	7,282.6	7,060.1	38.3	28.4	-141.16	157.7	1,351.6	650.7	608.2	42.49	15.314	
7,400.0	7,088.7	7,371.0	7,148.4	38.9	28.5	-117.39	156.5	1,352.7	671.5	628.9	42.53	15.787	
7,500.0	7,178.2	7,449.0	7,226.4	39.3	28.6	-104.11	155.9	1,353.1	687.2	644.8	42.44	16.192	
7,600.0	7,261.0	7,530.9	7,308.4	39.8	28.6	-98.18	155.4	1,352.9	699.9	657.6	42.30	16.544	
7,700.0	7,334.6	7,598.0	7,375.5	40.2	28.7	-95.60	155.2	1,352.1	712.0	669.8	42.12	16.904	
7,800.0	7,396.6	7,658.8	7,436.3	40.5	28.7	-94.86	155.0	1,351.1	726.0	683.9	42.09	17.250	
7,900.0	7,445.3	7,709.5	7,486.9	40.9	28.8	-94.57	154.9	1,350.3	743.8	701.5	42.36	17.561	
8,000.0	7,479.2	7,744.6	7,522.1	41.2	28.8	-93.58	154.8	1,349.8	767.4	724.5	42.97	17.859	
8,100.0	7,497.1	7,763.3	7,540.7	41.5	28.8	-91.35	154.8	1,349.6	797.6	753.8	43.79	18.214	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	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)			
8,200.0	7,500.0	7,766.2	7,543.7	41.8	28.8	-89.37	154.8	1,349.6	834.3	789.7	44.61	18.703	
8,300.0	7,500.0	7,766.2	7,543.6	42.1	28.8	-89.37	154.8	1,349.6	880.0	834.7	45.29	19.429	
8,400.0	7,500.0	7,766.1	7,543.5	42.5	28.8	-89.36	154.8	1,349.6	934.3	888.5	45.80	20.397	
8,500.0	7,500.0	7,766.0	7,543.4	43.0	28.8	-89.35	154.8	1,349.6	995.6	949.5	46.15	21.575	

Cathedral Energy Services

Anticollision Report

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

Offset Design 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	
2,500.0	2,444.6	3,063.3	2,891.7	9.3	16.9	-60.92	692.9	1,018.7	995.6	979.0	16.62	59.909	
2,600.0	2,539.4	3,141.6	2,962.0	9.9	17.5	-61.47	659.1	1,012.2	940.3	923.0	17.30	54.341	
2,700.0	2,634.2	3,234.1	3,045.2	10.5	18.3	-62.22	619.3	1,004.4	885.3	867.3	17.96	49.291	
2,800.0	2,729.0	3,313.0	3,115.7	11.1	18.9	-62.90	584.5	997.8	829.4	810.8	18.64	44.495	
2,900.0	2,823.8	3,399.2	3,192.8	11.7	19.6	-63.67	546.5	991.7	774.3	755.0	19.29	40.136	
3,000.0	2,918.6	3,481.9	3,266.7	12.3	20.3	-64.58	509.8	984.8	718.6	698.6	19.93	36.058	
3,100.0	3,013.4	3,560.4	3,336.8	12.9	20.9	-65.50	474.9	979.4	663.5	642.9	20.58	32.237	
3,200.0	3,108.2	3,643.9	3,411.3	13.5	21.6	-66.58	437.8	974.1	608.9	587.7	21.19	28.739	
3,300.0	3,203.0	3,727.5	3,486.1	14.1	22.2	-68.02	401.0	967.8	554.2	532.5	21.71	25.524	
3,400.0	3,297.8	3,805.6	3,556.3	14.7	22.8	-69.79	367.3	961.0	500.1	477.9	22.19	22.532	
3,500.0	3,392.6	3,881.1	3,624.7	15.3	23.4	-72.05	336.2	953.8	447.8	425.2	22.61	19.806	
3,600.0	3,487.4	3,963.0	3,699.3	15.9	24.0	-75.10	303.3	946.2	397.2	374.3	22.87	17.369	
3,700.0	3,582.2	4,046.5	3,775.4	16.5	24.6	-78.83	269.5	939.6	347.9	324.9	23.04	15.100	
3,800.0	3,677.0	4,134.5	3,855.3	17.1	25.3	-83.77	233.2	933.2	299.8	276.7	23.09	12.984	
3,900.0	3,771.8	4,219.3	3,932.0	17.7	25.9	-89.76	197.4	928.7	253.4	230.0	23.41	10.825	
4,000.0	3,866.6	4,304.2	4,008.7	18.3	26.6	-97.64	161.1	925.4	210.0	185.5	24.53	8.561	
4,100.0	3,961.4	4,387.2	4,083.9	18.9	27.2	-108.37	126.0	922.3	172.6	144.9	27.68	6.235	
4,200.0	4,056.2	4,478.4	4,165.8	19.5	28.0	-124.81	86.2	918.7	143.7	111.2	32.50	4.420	
4,300.0	4,151.0	4,561.3	4,238.9	20.1	28.7	-144.46	47.4	914.3	130.3	93.0	37.28	3.494	
4,306.8	4,157.5	4,566.8	4,243.8	20.2	28.7	-145.86	44.7	913.9	130.2	92.7	37.47	3.474	CC, ES, SF
4,400.0	4,245.8	4,642.8	4,310.6	20.7	29.3	-164.31	9.0	909.4	140.9	102.8	38.09	3.699	
4,500.0	4,340.6	4,727.5	4,386.0	21.3	30.0	179.51	-29.4	904.8	170.6	133.1	37.48	4.552	
4,600.0	4,435.4	4,814.6	4,465.1	21.9	30.6	168.59	-65.7	901.2	209.4	171.5	37.86	5.530	
4,700.0	4,530.3	4,903.7	4,547.5	22.5	31.2	161.63	-99.4	897.8	251.9	213.3	38.58	6.529	
4,800.0	4,625.1	4,991.1	4,629.4	23.1	31.8	157.36	-129.7	894.0	295.9	256.6	39.23	7.542	
4,900.0	4,719.9	5,083.2	4,716.6	23.7	32.3	154.51	-159.0	889.3	340.5	300.5	39.98	8.516	
5,000.0	4,814.7	5,182.0	4,811.0	24.4	32.8	152.60	-187.6	885.1	383.9	343.0	40.83	9.403	
5,100.0	4,909.5	5,280.1	4,906.0	25.0	33.2	151.63	-212.1	881.3	425.5	383.9	41.58	10.233	
5,200.0	5,004.3	5,385.3	5,008.9	25.6	33.6	151.34	-233.5	878.0	464.7	422.3	42.36	10.970	
5,300.0	5,099.1	5,482.6	5,104.8	26.2	33.9	151.46	-250.0	875.5	502.1	459.1	42.98	11.682	
5,400.0	5,193.9	5,583.4	5,204.4	26.8	34.2	151.82	-264.8	872.6	538.8	495.2	43.57	12.365	
5,500.0	5,288.7	5,682.2	5,302.6	27.4	34.4	152.52	-275.2	869.8	573.9	529.8	44.08	13.018	
5,600.0	5,383.5	5,787.2	5,407.2	28.0	34.6	153.44	-283.5	866.8	608.1	563.5	44.56	13.645	
5,700.0	5,478.3	5,893.5	5,513.4	28.6	34.7	154.52	-288.4	864.8	640.3	595.4	44.98	14.237	
5,800.0	5,573.1	5,990.5	5,610.4	29.2	34.8	155.58	-290.7	863.2	671.8	626.5	45.29	14.833	
5,900.0	5,667.9	6,088.2	5,708.0	29.8	34.8	156.71	-291.0	861.4	703.0	657.4	45.56	15.429	
6,000.0	5,762.7	6,183.0	5,802.8	30.4	34.9	157.75	-290.9	859.7	734.1	688.3	45.81	16.024	
6,100.0	5,857.5	6,276.8	5,896.6	31.0	34.9	158.68	-290.9	858.1	765.4	719.4	46.05	16.620	
6,200.0	5,952.3	6,371.4	5,991.1	31.6	35.0	159.54	-291.0	856.4	797.0	750.7	46.29	17.216	
6,300.0	6,047.1	6,466.4	6,086.1	32.2	35.0	160.33	-291.2	854.9	828.6	782.0	46.52	17.809	
6,400.0	6,141.9	6,565.5	6,185.3	32.9	35.1	161.11	-291.2	853.5	860.1	813.3	46.76	18.394	
6,500.0	6,236.7	6,666.1	6,285.8	33.5	35.1	161.85	-290.7	852.7	891.0	844.0	46.98	18.964	
6,600.0	6,331.5	6,759.2	6,379.0	34.1	35.2	162.50	-290.2	852.2	921.8	874.6	47.20	19.531	
6,700.0	6,426.3	6,852.4	6,472.1	34.7	35.3	163.09	-290.0	851.5	952.9	905.5	47.42	20.097	
6,800.0	6,521.1	6,945.7	6,565.5	35.3	35.3	163.63	-289.9	850.8	984.2	936.6	47.63	20.662	
6,900.0	6,615.9	7,038.6	6,658.3	35.9	35.4	164.13	-289.9	850.1	1,015.7	967.9	47.85	21.227	
7,000.0	6,710.7	7,130.1	6,749.9	36.5	35.4	164.60	-290.1	849.1	1,047.5	999.4	48.07	21.793	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 31-7 (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					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)	Total Uncertainty Axis			
8,400.0	7,500.0	7,641.8	7,553.0	42.5	22.6	90.00	1,729.3	2,460.5	1,044.0	992.6	51.35	20.332		
8,500.0	7,500.0	7,641.8	7,553.0	43.0	22.6	90.00	1,729.3	2,460.5	957.2	907.3	49.85	19.201		
8,600.0	7,500.0	7,641.8	7,553.0	43.6	22.6	90.00	1,729.3	2,460.5	873.2	825.1	48.02	18.183		
8,700.0	7,500.0	7,641.8	7,553.0	44.2	22.6	90.00	1,729.3	2,460.5	792.9	747.1	45.80	17.314		
8,800.0	7,500.0	7,641.8	7,553.0	44.9	22.6	90.00	1,729.3	2,460.5	717.6	674.4	43.17	16.621		
8,900.0	7,500.0	7,641.8	7,553.0	45.7	22.6	90.00	1,729.3	2,460.5	649.0	608.6	40.39	16.068		
9,000.0	7,500.0	7,641.8	7,553.0	46.5	22.6	90.00	1,729.3	2,460.5	589.4	551.0	38.40	15.348		
9,100.0	7,500.0	7,641.8	7,553.0	47.3	22.6	90.00	1,729.3	2,460.5	541.9	502.6	39.34	13.774		
9,200.0	7,500.0	7,641.8	7,553.0	48.2	22.6	90.00	1,729.3	2,460.5	509.8	465.5	44.34	11.498		
9,300.0	7,500.0	7,641.8	7,553.0	49.2	22.6	90.00	1,729.3	2,460.5	496.2	444.7	51.49	9.635		
9,318.7	7,500.0	7,641.8	7,553.0	49.3	22.6	90.00	1,729.3	2,460.5	495.8	442.9	52.87	9.378 CC, ES		
9,400.0	7,500.0	7,641.8	7,553.0	50.2	22.6	90.00	1,729.3	2,460.5	502.4	444.0	58.43	8.599		
9,500.0	7,500.0	7,641.8	7,553.0	51.2	22.6	90.00	1,729.3	2,460.5	527.9	464.1	63.80	8.274 SF		
9,600.0	7,500.0	7,641.8	7,553.0	52.3	22.6	90.00	1,729.3	2,460.5	570.0	502.7	67.32	8.467		
9,700.0	7,500.0	7,641.8	7,553.0	53.4	22.6	90.00	1,729.3	2,460.5	625.4	556.1	69.34	9.020		
9,800.0	7,500.0	7,641.8	7,553.0	54.5	22.6	90.00	1,729.3	2,460.5	691.0	620.6	70.36	9.820		
9,900.0	7,500.0	7,641.8	7,553.0	55.7	22.6	90.00	1,729.3	2,460.5	764.0	693.2	70.79	10.793		
10,000.0	7,500.0	7,641.8	7,553.0	56.9	22.6	90.00	1,729.3	2,460.5	842.6	771.7	70.88	11.887		
10,100.0	7,500.0	7,641.8	7,553.0	58.1	22.6	90.00	1,729.3	2,460.5	925.3	854.5	70.81	13.068		
10,200.0	7,500.0	7,641.8	7,553.0	59.4	22.6	90.00	1,729.3	2,460.5	1,011.1	940.5	70.65	14.313		

Cathedral Energy Services

Anticollision Report

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

Offset Design 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		
8,800.0	7,500.0	7,613.6	7,532.5	44.9	19.3	-84.96	2,166.8	1,697.8	1,051.1	988.8	62.32	16.866		
8,900.0	7,500.0	7,615.8	7,534.7	45.7	19.3	-85.53	2,166.8	1,697.8	953.6	890.6	63.02	15.132		
9,000.0	7,500.0	7,618.0	7,536.9	46.5	19.3	-86.10	2,166.9	1,697.8	856.7	792.8	63.83	13.421		
9,100.0	7,500.0	7,620.2	7,539.1	47.3	19.3	-86.67	2,166.9	1,697.8	760.5	695.7	64.78	11.740		
9,200.0	7,500.0	7,622.5	7,541.3	48.2	19.3	-87.24	2,167.0	1,697.9	665.5	599.6	65.91	10.097		
9,300.0	7,500.0	7,624.7	7,543.6	49.2	19.3	-87.81	2,167.0	1,697.9	572.2	504.9	67.24	8.509		
9,400.0	7,500.0	7,626.9	7,545.8	50.2	19.3	-88.39	2,167.1	1,697.9	481.5	412.8	68.78	7.001		
9,500.0	7,500.0	7,629.2	7,548.0	51.2	19.3	-88.97	2,167.1	1,698.0	395.4	325.0	70.36	5.619		
9,600.0	7,500.0	7,631.4	7,550.3	52.3	19.3	-89.55	2,167.2	1,698.0	317.5	246.2	71.31	4.452		
9,700.0	7,500.0	7,633.6	7,552.5	53.4	19.3	-90.13	2,167.2	1,698.0	255.5	186.2	69.27	3.688 SF		
9,800.0	7,500.0	7,635.9	7,554.7	54.5	19.3	-90.71	2,167.3	1,698.0	222.9	163.4	59.49	3.748 ES		
9,827.8	7,500.0	7,636.5	7,555.4	54.8	19.3	-90.87	2,167.3	1,698.1	221.2	166.1	55.13	4.012 CC		
9,900.0	7,500.0	7,638.1	7,557.0	55.7	19.3	-91.29	2,167.3	1,698.1	232.7	189.7	42.94	5.418		
10,000.0	7,500.0	7,640.4	7,559.2	56.9	19.3	-91.87	2,167.4	1,698.1	280.3	247.9	32.39	8.652		
10,100.0	7,500.0	7,642.6	7,561.5	58.1	19.3	-92.45	2,167.4	1,698.1	350.7	318.3	32.34	10.842		
10,200.0	7,500.0	7,644.9	7,563.7	59.4	19.3	-93.04	2,167.5	1,698.2	432.9	396.9	35.91	12.055		
10,300.0	7,500.0	7,647.1	7,566.0	60.7	19.3	-93.62	2,167.6	1,698.2	521.3	482.0	39.31	13.261		
10,400.0	7,500.0	7,649.4	7,568.2	62.0	19.3	-94.20	2,167.6	1,698.2	613.3	571.3	42.00	14.603		
10,500.0	7,500.0	7,651.7	7,570.5	63.4	19.3	-94.79	2,167.7	1,698.3	707.5	663.4	44.08	16.051		
10,600.0	7,500.0	7,653.9	7,572.8	64.7	19.3	-95.37	2,167.7	1,698.3	803.0	757.3	45.71	17.570		
10,700.0	7,500.0	7,656.2	7,575.0	66.1	19.3	-95.95	2,167.8	1,698.3	899.6	852.6	47.01	19.136		
10,800.0	7,500.0	7,658.5	7,577.3	67.5	19.3	-96.97	2,167.8	1,698.3	996.9	948.9	48.06	20.743		

Cathedral Energy Services

Anticollision Report

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

Offset Design 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				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		
6,100.0	5,857.5	6,029.4	5,958.3	31.0	18.3	-68.01	883.7	2,032.5	1,036.1	989.6	46.53	22.267		
6,200.0	5,952.3	6,117.4	6,045.0	31.6	18.6	-70.25	886.4	2,017.7	1,019.8	971.8	47.99	21.250		
6,300.0	6,047.1	6,205.5	6,131.8	32.2	19.0	-72.55	889.0	2,002.9	1,005.5	956.1	49.42	20.347		
6,400.0	6,141.9	6,293.5	6,218.6	32.9	19.3	-74.90	891.7	1,988.2	993.2	942.4	50.80	19.553		
6,500.0	6,236.7	6,381.6	6,305.3	33.5	19.6	-77.29	894.3	1,973.4	983.1	931.0	52.12	18.863		
6,600.0	6,331.5	6,469.6	6,392.1	34.1	19.9	-79.72	897.0	1,958.6	975.2	921.8	53.37	18.273		
6,700.0	6,426.3	6,557.6	6,478.8	34.7	20.2	-82.17	899.6	1,943.8	969.5	915.0	54.53	17.779		
6,800.0	6,521.1	6,645.7	6,565.6	35.3	20.5	-84.63	902.3	1,929.1	966.2	910.6	55.60	17.376		
6,894.9	6,611.1	6,729.3	6,647.9	35.9	20.8	-86.99	904.8	1,915.0	965.1	908.6	56.52	17.075		
6,900.0	6,615.9	6,733.7	6,652.3	35.9	20.8	-87.11	905.0	1,914.3	965.1	908.6	56.57	17.061		
7,000.0	6,710.7	6,821.8	6,739.1	36.5	21.1	-89.59	907.6	1,899.5	966.4	909.0	57.42	16.830		
7,100.0	6,805.5	6,911.7	6,827.7	37.1	21.4	-92.10	910.3	1,884.5	970.0	911.8	58.16	16.678		
7,200.0	6,900.3	7,008.2	6,923.2	37.7	21.7	-94.65	912.8	1,870.9	975.3	916.5	58.78	16.593		
7,300.0	6,995.1	7,108.0	7,022.4	38.3	21.9	-78.12	914.7	1,860.0	978.2	918.9	59.28	16.502		
7,400.0	7,088.7	7,209.8	7,123.9	38.9	22.1	-56.40	916.0	1,852.5	965.6	905.9	59.68	16.179		
7,500.0	7,178.2	7,309.7	7,223.7	39.3	22.2	-44.32	916.7	1,848.6	936.3	876.3	60.01	15.603		
7,600.0	7,261.0	7,400.0	7,314.0	39.8	22.3	-38.78	916.9	1,847.9	891.3	831.0	60.27	14.788		
7,700.0	7,334.6	7,473.6	7,387.6	40.2	22.4	-37.40	916.9	1,847.9	832.5	772.1	60.46	13.770		
7,800.0	7,396.6	7,535.6	7,449.6	40.5	22.5	-39.71	916.9	1,847.9	762.2	701.6	60.55	12.587		
7,900.0	7,445.3	7,584.3	7,498.3	40.9	22.5	-46.31	916.9	1,847.9	682.5	622.0	60.51	11.278		
8,000.0	7,479.2	7,618.2	7,532.2	41.2	22.5	-58.76	916.9	1,847.9	596.2	535.9	60.29	9.888		
8,100.0	7,497.1	7,636.1	7,550.1	41.5	22.6	-77.63	916.9	1,847.9	506.1	446.3	59.77	8.466		
8,200.0	7,500.0	7,639.0	7,553.0	41.8	22.6	-90.00	916.9	1,847.9	415.7	356.9	58.76	7.074		
8,300.0	7,500.0	7,639.0	7,553.0	42.1	22.6	-90.00	916.9	1,847.9	330.2	273.7	56.58	5.837		
8,400.0	7,500.0	7,639.0	7,553.0	42.5	22.6	-90.00	916.9	1,847.9	255.5	203.9	51.61	4.951		
8,500.0	7,500.0	7,639.0	7,553.0	43.0	22.6	-90.00	916.9	1,847.9	203.8	162.1	41.66	4.893 SF		
8,568.8	7,500.0	7,639.0	7,553.0	43.4	22.6	-90.00	916.9	1,847.9	191.8	157.9	33.99	5.645 CC, ES		
8,600.0	7,500.0	7,639.0	7,553.0	43.6	22.6	-90.00	916.9	1,847.9	194.4	162.4	32.00	6.073		
8,700.0	7,500.0	7,639.0	7,553.0	44.2	22.6	-90.00	916.9	1,847.9	232.4	195.3	37.13	6.259		
8,800.0	7,500.0	7,639.0	7,553.0	44.9	22.6	-90.00	916.9	1,847.9	300.4	254.7	45.72	6.572		
8,900.0	7,500.0	7,639.0	7,553.0	45.7	22.6	-90.00	916.9	1,847.9	382.8	332.0	50.78	7.538		
9,000.0	7,500.0	7,639.0	7,553.0	46.5	22.6	-90.00	916.9	1,847.9	472.0	418.3	53.67	8.794		
9,100.0	7,500.0	7,639.0	7,553.0	47.3	22.6	-90.00	916.9	1,847.9	564.8	509.4	55.43	10.188		
9,200.0	7,500.0	7,639.0	7,553.0	48.2	22.6	-90.00	916.9	1,847.9	659.7	603.1	56.60	11.655		
9,300.0	7,500.0	7,639.0	7,553.0	49.2	22.6	-90.00	916.9	1,847.9	756.0	698.5	57.43	13.164		
9,400.0	7,500.0	7,639.0	7,553.0	50.2	22.6	-90.00	916.9	1,847.9	853.1	795.0	58.04	14.698		
9,500.0	7,500.0	7,639.0	7,553.0	51.2	22.6	-90.00	916.9	1,847.9	950.8	892.2	58.51	16.249		
9,600.0	7,500.0	7,639.0	7,553.0	52.3	22.6	-90.00	916.9	1,847.9	1,048.9	990.0	58.89	17.810		

Cathedral Energy Services

Anticollision Report

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

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8320-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		
7,700.0	7,334.6	7,383.6	7,383.6	40.2	12.9	49.52	753.9	2,859.7	1,023.0	984.4	38.51	26.564		
7,800.0	7,396.6	7,445.6	7,445.6	40.5	13.0	62.45	753.9	2,859.7	965.6	929.2	36.45	26.489		
7,900.0	7,445.3	7,494.3	7,494.3	40.9	13.1	73.90	753.9	2,859.7	910.8	877.1	33.75	26.990		
8,000.0	7,479.2	7,528.2	7,528.2	41.2	13.1	82.76	753.9	2,859.7	863.3	832.6	30.68	28.135		
8,100.0	7,497.1	7,546.1	7,546.1	41.5	13.2	88.34	753.9	2,859.7	827.6	799.5	28.08	29.475		
8,200.0	7,500.0	7,549.0	7,549.0	41.8	13.2	90.00	753.9	2,859.7	807.2	779.7	27.43	29.428		
8,300.0	7,500.0	7,549.0	7,549.0	42.1	13.2	90.00	753.9	2,859.7	799.7	770.2	29.57	27.047		
8,309.6	7,500.0	7,549.0	7,549.0	42.2	13.2	90.00	753.9	2,859.7	799.7	769.8	29.90	26.746 CC, ES		
8,400.0	7,500.0	7,549.0	7,549.0	42.5	13.2	90.00	753.9	2,859.7	804.8	771.2	33.63	23.932		
8,500.0	7,500.0	7,549.0	7,549.0	43.0	13.2	90.00	753.9	2,859.7	822.1	783.7	38.39	21.411		
8,600.0	7,500.0	7,549.0	7,549.0	43.6	13.2	90.00	753.9	2,859.7	850.8	807.7	43.11	19.735		
8,700.0	7,500.0	7,549.0	7,549.0	44.2	13.2	90.00	753.9	2,859.7	889.9	842.5	47.41	18.772		
8,800.0	7,500.0	7,549.0	7,549.0	44.9	13.2	90.00	753.9	2,859.7	938.1	887.0	51.13	18.346		
8,900.0	7,500.0	7,549.0	7,549.0	45.7	13.2	90.00	753.9	2,859.7	994.0	939.8	54.27	18.315 SF		
9,000.0	7,500.0	7,549.0	7,549.0	46.5	13.2	90.00	753.9	2,859.7	1,056.5	999.6	56.87	18.577		

Cathedral Energy Services

Anticollision Report

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

Offset Design 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		
10,400.0	7,500.0	7,461.2	7,458.7	62.0	13.3	-89.12	3,457.6	1,128.1	1,014.9	940.5	74.41	13.640		
10,500.0	7,500.0	7,462.2	7,459.7	63.4	13.3	-89.20	3,457.6	1,128.1	941.7	865.5	76.11	12.372		
10,600.0	7,500.0	7,463.1	7,460.6	64.7	13.3	-89.28	3,457.6	1,128.1	873.7	796.0	77.74	11.239		
10,700.0	7,500.0	7,464.1	7,461.6	66.1	13.3	-89.36	3,457.6	1,128.1	812.4	733.3	79.13	10.266		
10,800.0	7,500.0	7,465.0	7,462.5	67.5	13.3	-89.45	3,457.6	1,128.1	759.9	679.8	80.09	9.488		
10,900.0	7,500.0	7,466.0	7,463.5	68.9	13.3	-89.53	3,457.6	1,128.1	719.2	638.9	80.29	8.958		
11,000.0	7,500.0	7,466.9	7,464.4	70.4	13.3	-89.61	3,457.6	1,128.1	692.4	613.0	79.41	8.720	SF	
11,100.0	7,500.0	7,467.9	7,465.4	71.9	13.3	-89.69	3,457.6	1,128.1	681.2	603.9	77.25	8.818	ES	
11,119.1	7,500.0	7,468.0	7,465.5	72.2	13.3	-89.71	3,457.6	1,128.1	680.9	604.2	76.69	8.878	CC	
11,200.0	7,500.0	7,468.8	7,466.3	73.4	13.3	-89.77	3,457.6	1,128.1	686.2	612.4	73.85	9.292		
11,300.0	7,500.0	7,469.7	7,467.2	74.9	13.3	-89.85	3,457.7	1,128.1	707.1	637.6	69.53	10.170		
11,400.0	7,500.0	7,470.6	7,468.2	76.5	13.3	-89.93	3,457.7	1,128.0	741.4	676.6	64.74	11.451		
11,500.0	7,500.0	7,471.6	7,469.1	78.0	13.3	-90.01	3,457.7	1,128.0	786.9	727.0	59.92	13.133		
11,600.0	7,500.0	7,472.5	7,470.0	79.6	13.3	-90.09	3,457.7	1,128.0	842.0	786.6	55.38	15.204		
11,700.0	7,500.0	7,473.4	7,471.0	81.1	13.3	-90.16	3,457.7	1,128.0	904.7	853.4	51.31	17.631		
11,800.0	7,500.0	7,474.4	7,471.9	82.7	13.3	-90.24	3,457.7	1,128.0	973.7	925.9	47.81	20.366		

Cathedral Energy Services

Anticollision Report

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

Offset Design 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		
9,800.0	7,500.0	7,557.8	7,485.0	54.5	18.7	-90.00	2,891.3	1,215.1	1,015.8	947.3	68.47	14.835		
9,900.0	7,500.0	7,557.8	7,485.0	55.7	18.7	-90.00	2,891.3	1,215.1	939.6	869.6	70.03	13.416		
10,000.0	7,500.0	7,557.8	7,485.0	56.9	18.7	-90.00	2,891.3	1,215.1	868.3	796.6	71.61	12.124		
10,100.0	7,500.0	7,557.8	7,485.0	58.1	18.7	-90.00	2,891.3	1,215.1	803.1	730.0	73.10	10.986		
10,200.0	7,500.0	7,557.8	7,485.0	59.4	18.7	-90.00	2,891.3	1,215.1	745.6	671.3	74.29	10.036		
10,300.0	7,500.0	7,557.8	7,485.0	60.7	18.7	-90.00	2,891.3	1,215.1	697.9	622.9	74.93	9.314		
10,400.0	7,500.0	7,557.8	7,485.0	62.0	18.7	-90.00	2,891.3	1,215.1	661.8	587.2	74.65	8.866		
10,500.0	7,500.0	7,557.8	7,485.0	63.4	18.7	-90.00	2,891.3	1,215.1	639.6	566.5	73.14	8.745 SF		
10,594.8	7,500.0	7,557.8	7,485.0	64.6	18.7	-90.00	2,891.3	1,215.1	632.5	562.1	70.42	8.982 CC, ES		
10,600.0	7,500.0	7,557.8	7,485.0	64.7	18.7	-90.00	2,891.3	1,215.1	632.6	562.3	70.23	9.006		
10,700.0	7,500.0	7,557.8	7,485.0	66.1	18.7	-90.00	2,891.3	1,215.1	641.2	575.1	66.09	9.703		
10,800.0	7,500.0	7,557.8	7,485.0	67.5	18.7	-90.00	2,891.3	1,215.1	665.6	604.4	61.15	10.885		
10,900.0	7,500.0	7,557.8	7,485.0	68.9	18.7	-90.00	2,891.3	1,215.1	705.0	649.0	56.04	12.581		
11,000.0	7,500.0	7,557.8	7,485.0	70.4	18.7	-90.00	2,891.3	1,215.1	757.1	705.8	51.30	14.758		
11,100.0	7,500.0	7,557.8	7,485.0	71.9	18.7	-90.00	2,891.3	1,215.1	819.5	772.3	47.27	17.337		
11,200.0	7,500.0	7,557.8	7,485.0	73.4	18.7	-90.00	2,891.3	1,215.1	890.0	846.0	44.07	20.198		
11,300.0	7,500.0	7,557.8	7,485.0	74.9	18.7	-90.00	2,891.3	1,215.1	966.7	925.1	41.67	23.201		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - 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		
10,900.0	7,500.0	7,461.8	7,459.3	68.9	13.3	-89.38	3,773.8	885.7	1,066.8	984.8	82.01	13.009		
11,000.0	7,500.0	7,462.7	7,460.3	70.4	13.3	-89.45	3,773.8	885.7	1,017.1	933.8	83.27	12.215		
11,100.0	7,500.0	7,463.7	7,461.2	71.9	13.3	-89.51	3,773.8	885.7	976.7	892.6	84.13	11.610		
11,200.0	7,500.0	7,464.6	7,462.1	73.4	13.3	-89.57	3,773.8	885.7	947.0	862.5	84.43	11.216		
11,300.0	7,500.0	7,465.5	7,463.0	74.9	13.3	-89.63	3,773.8	885.7	928.7	844.7	84.04	11.050 SF		
11,400.0	7,500.0	7,466.4	7,463.9	76.5	13.3	-89.69	3,773.8	885.7	921.3	838.4	82.90	11.114 ES		
11,418.1	7,500.0	7,466.6	7,464.1	76.7	13.3	-89.70	3,773.8	885.7	921.2	838.6	82.61	11.150 CC		
11,500.0	7,500.0	7,467.3	7,464.9	78.0	13.3	-89.74	3,773.8	885.7	924.8	843.8	81.02	11.415		
11,600.0	7,500.0	7,468.3	7,465.8	79.6	13.3	-89.80	3,773.8	885.7	939.0	860.5	78.48	11.965		
11,700.0	7,500.0	7,469.2	7,466.7	81.1	13.3	-89.86	3,773.8	885.7	963.3	887.9	75.44	12.770		
11,800.0	7,500.0	7,470.1	7,467.6	82.7	13.3	-89.92	3,773.8	885.7	997.2	925.1	72.08	13.835		
11,900.0	7,500.0	7,471.0	7,468.6	84.3	13.3	-89.97	3,773.8	885.7	1,039.6	971.0	68.58	15.159		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - 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	7,500.0	7,429.2	7,427.1	71.9	13.2	-86.14	4,355.6	1,266.0	1,051.7	976.0	75.73	13.889	
11,200.0	7,500.0	7,433.0	7,431.0	73.4	13.2	-86.67	4,355.8	1,266.0	966.4	888.1	78.32	12.340	
11,300.0	7,500.0	7,437.0	7,435.0	74.9	13.2	-87.14	4,356.0	1,266.0	885.2	804.0	81.25	10.894	
11,400.0	7,500.0	7,441.1	7,439.0	76.5	13.2	-87.57	4,356.2	1,266.0	808.4	724.0	84.45	9.572	
11,500.0	7,500.0	7,445.3	7,443.2	78.0	13.3	-88.01	4,356.3	1,266.1	737.2	649.4	87.81	8.395	
11,600.0	7,500.0	7,449.6	7,447.5	79.6	13.3	-88.47	4,356.5	1,266.1	673.3	582.2	91.09	7.391	
11,700.0	7,500.0	7,454.1	7,452.0	81.1	13.3	-88.94	4,356.7	1,266.1	619.0	525.1	93.89	6.592	
11,800.0	7,500.0	7,458.6	7,456.6	82.7	13.3	-89.42	4,357.0	1,266.2	577.0	481.4	95.56	6.038	
11,900.0	7,500.0	7,463.3	7,461.3	84.3	13.3	-89.92	4,357.2	1,266.2	550.1	454.8	95.32	5.771 SF	
12,000.0	7,500.0	7,468.2	7,466.1	85.9	13.3	-90.44	4,357.4	1,266.2	540.7	448.0	92.62	5.837 ES	
12,001.7	7,500.0	7,468.3	7,466.2	85.9	13.3	-90.44	4,357.4	1,266.2	540.6	448.1	92.55	5.841 CC	
12,100.0	7,500.0	7,473.2	7,471.1	87.5	13.3	-90.96	4,357.7	1,266.3	549.5	462.0	87.50	6.280	
12,200.0	7,500.0	7,478.3	7,476.2	89.1	13.3	-91.51	4,357.9	1,266.3	575.8	495.1	80.69	7.136	
12,300.0	7,500.0	7,483.7	7,481.6	90.7	13.3	-92.07	4,358.2	1,266.4	617.3	544.1	73.24	8.429	
12,400.0	7,500.0	7,489.1	7,487.0	92.3	13.3	-92.65	4,358.5	1,266.4	671.2	605.2	66.05	10.163	
12,500.0	7,500.0	7,494.8	7,492.7	93.9	13.3	-93.25	4,358.8	1,266.4	734.8	675.2	59.63	12.323	
12,600.0	7,500.0	7,500.6	7,498.5	95.5	13.4	-93.86	4,359.1	1,266.5	805.8	751.6	54.20	14.867	
12,700.0	7,500.0	7,505.9	7,503.8	97.1	13.4	-94.42	4,359.4	1,266.5	882.4	832.6	49.77	17.730	
12,800.0	7,500.0	7,511.2	7,509.0	98.8	13.4	-94.98	4,359.6	1,266.6	963.3	917.0	46.25	20.829	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SUR													Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)				
13,900.0	7,500.0	7,453.0	7,453.0	117.0	13.0	-90.00	6,294.0	686.4	1,122.9	996.5	126.40	8.884 ES, SF		
13,907.5	7,500.0	7,453.0	7,453.0	117.1	13.0	-90.00	6,294.0	686.4	1,122.9	996.5	126.34	8.888 CC		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO 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	7,500.0	7,454.0	7,454.0	90.7	13.0	-90.00	5,577.5	1,378.4	1,016.5	935.9	80.59	12.613	
12,400.0	7,500.0	7,454.0	7,454.0	92.3	13.0	-90.00	5,577.5	1,378.4	926.8	842.8	83.94	11.041	
12,500.0	7,500.0	7,454.0	7,454.0	93.9	13.0	-90.00	5,577.5	1,378.4	839.4	751.5	87.83	9.557	
12,600.0	7,500.0	7,454.0	7,454.0	95.5	13.0	-90.00	5,577.5	1,378.4	755.1	662.8	92.33	8.179	
12,700.0	7,500.0	7,454.0	7,454.0	97.1	13.0	-90.00	5,577.5	1,378.4	675.2	577.7	97.47	6.927	
12,800.0	7,500.0	7,454.0	7,454.0	98.8	13.0	-90.00	5,577.5	1,378.4	601.2	498.1	103.16	5.828	
12,900.0	7,500.0	7,454.0	7,454.0	100.4	13.0	-90.00	5,577.5	1,378.4	535.8	426.8	109.00	4.916	
13,000.0	7,500.0	7,454.0	7,454.0	102.0	13.0	-90.00	5,577.5	1,378.4	482.5	368.4	114.03	4.231	
13,100.0	7,500.0	7,454.0	7,454.0	103.7	13.0	-90.00	5,577.5	1,378.4	445.5	328.9	116.57	3.821	
13,200.0	7,500.0	7,454.0	7,454.0	105.3	13.0	-90.00	5,577.5	1,378.4	429.0	314.3	114.69	3.741 ES, SF	
13,221.8	7,500.0	7,454.0	7,454.0	105.7	13.0	-90.00	5,577.5	1,378.4	428.5	314.9	113.59	3.772 CC	
13,300.0	7,500.0	7,454.0	7,454.0	107.0	13.0	-90.00	5,577.5	1,378.4	435.6	327.9	107.71	4.044	
13,400.0	7,500.0	7,454.0	7,454.0	108.6	13.0	-90.00	5,577.5	1,378.4	464.1	367.0	97.12	4.779	
13,500.0	7,500.0	7,454.0	7,454.0	110.3	13.0	-90.00	5,577.5	1,378.4	510.9	425.5	85.44	5.980	
13,600.0	7,500.0	7,454.0	7,454.0	111.9	13.0	-90.00	5,577.5	1,378.4	571.6	497.0	74.60	7.661	
13,700.0	7,500.0	7,454.0	7,454.0	113.6	13.0	-90.00	5,577.5	1,378.4	642.1	576.7	65.45	9.811	
13,800.0	7,500.0	7,454.0	7,454.0	115.3	13.0	-90.00	5,577.5	1,378.4	719.8	661.7	58.11	12.386	
13,900.0	7,500.0	7,454.0	7,454.0	117.0	13.0	-90.00	5,577.5	1,378.4	803.2	750.7	52.51	15.296	
14,000.0	7,500.0	7,454.0	7,454.0	118.7	13.0	-90.00	5,577.5	1,378.4	890.9	842.5	48.37	18.417	
14,100.0	7,500.0	7,454.0	7,454.0	120.4	13.0	-90.00	5,577.5	1,378.4	981.8	936.4	45.38	21.634	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WE													Offset Site Error: 0.0 ft
Survey Program: 40-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,000.0	7,500.0	7,542.5	7,446.1	102.0	19.7	84.85	6,295.8	2,016.5	963.3	921.3	42.03	22.919	
13,100.0	7,500.0	7,544.6	7,448.2	103.7	19.7	85.42	6,295.8	2,016.4	866.0	824.8	41.18	21.030	
13,200.0	7,500.0	7,546.7	7,450.4	105.3	19.7	86.01	6,295.9	2,016.4	769.4	728.8	40.53	18.984	
13,300.0	7,500.0	7,548.9	7,452.6	107.0	19.7	86.60	6,295.9	2,016.4	673.7	633.3	40.45	16.654	
13,400.0	7,500.0	7,551.1	7,454.8	108.6	19.7	87.20	6,296.0	2,016.4	579.5	537.8	41.75	13.882	
13,500.0	7,500.0	7,553.3	7,457.0	110.3	19.7	87.81	6,296.0	2,016.3	487.7	441.9	45.79	10.650	
13,600.0	7,500.0	7,555.6	7,459.3	111.9	19.7	88.44	6,296.1	2,016.3	399.7	345.1	54.54	7.328	
13,700.0	7,500.0	7,557.9	7,461.6	113.6	19.7	89.07	6,296.1	2,016.3	318.8	248.4	70.40	4.529	
13,800.0	7,500.0	7,560.3	7,463.9	115.3	19.7	89.71	6,296.2	2,016.3	252.0	156.9	95.19	2.648	
13,900.0	7,500.0	7,562.7	7,466.3	117.0	19.7	90.36	6,296.3	2,016.2	211.5	88.2	123.32	1.715	
13,947.8	7,500.0	7,563.8	7,467.4	117.8	19.7	90.67	6,296.3	2,016.2	206.3	74.1	132.18	1.561 CC, ES, SF	
14,000.0	7,500.0	7,565.0	7,468.6	118.7	19.7	91.00	6,296.3	2,016.2	212.5	77.4	135.07	1.573	
14,100.0	7,500.0	7,567.2	7,470.8	120.4	19.7	91.61	6,296.4	2,016.2	254.5	129.0	125.52	2.028	
14,200.0	7,500.0	7,569.4	7,473.0	122.1	19.7	92.17	6,296.4	2,016.2	321.8	210.8	111.02	2.899	
14,300.0	7,500.0	7,571.5	7,475.1	123.8	19.7	92.67	6,296.5	2,016.1	402.0	302.9	99.06	4.058	
14,400.0	7,500.0	7,573.5	7,477.2	125.5	19.7	93.10	6,296.5	2,016.1	488.6	398.5	90.06	5.425	
14,500.0	7,500.0	7,575.5	7,479.2	127.3	19.7	93.46	6,296.6	2,016.1	578.8	495.5	83.27	6.951	
14,600.0	7,500.0	7,577.4	7,481.1	129.0	19.7	93.76	6,296.6	2,016.1	671.1	593.1	77.99	8.605	
14,700.0	7,500.0	7,579.3	7,483.0	130.8	19.7	94.00	6,296.6	2,016.1	764.7	691.0	73.75	10.368	
14,767.3	7,500.0	7,580.6	7,484.2	132.0	19.7	94.27	6,296.7	2,016.1	828.4	757.0	71.38	11.604	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WE										Offset Site Error:		0.0 ft	
Survey Program: 771-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,200.0	7,500.0	7,595.4	7,524.0	59.4	18.5	86.19	3,579.2	1,995.0	1,026.5	977.5	48.96	20.964	
10,300.0	7,500.0	7,596.7	7,525.4	60.7	18.5	86.55	3,579.2	1,995.0	928.8	880.9	47.92	19.383	
10,400.0	7,500.0	7,598.1	7,526.7	62.0	18.5	86.92	3,579.2	1,995.0	831.7	785.1	46.64	17.834	
10,500.0	7,500.0	7,599.5	7,528.1	63.4	18.5	87.29	3,579.2	1,995.0	735.4	690.4	45.04	16.327	
10,600.0	7,500.0	7,600.8	7,529.5	64.7	18.5	87.67	3,579.2	1,995.0	640.2	597.2	43.04	14.875	
10,700.0	7,500.0	7,602.3	7,530.9	66.1	18.5	88.05	3,579.3	1,995.0	546.7	506.2	40.56	13.479	
10,800.0	7,500.0	7,603.7	7,532.3	67.5	18.5	88.39	3,579.3	1,995.0	455.7	417.9	37.81	12.051	
10,900.0	7,500.0	7,605.1	7,533.8	68.9	18.5	88.76	3,579.3	1,995.0	368.4	332.2	36.15	10.190	
11,000.0	7,500.0	7,606.6	7,535.2	70.4	18.5	89.17	3,579.3	1,995.0	288.2	247.9	40.37	7.141	
11,100.0	7,500.0	7,608.1	7,536.7	71.9	18.5	89.61	3,579.4	1,995.0	223.1	166.8	56.35	3.959	
11,200.0	7,500.0	7,610.0	7,538.6	73.4	18.5	90.19	3,579.4	1,995.0	189.2	109.7	79.48	2.381	
11,222.0	7,500.0	7,610.0	7,538.6	73.7	18.5	90.19	3,579.4	1,995.0	188.0	104.4	83.60	2.248 CC, ES	
11,300.0	7,500.0	7,611.1	7,539.7	74.9	18.5	90.53	3,579.4	1,995.0	203.0	112.2	90.75	2.237 SF	
11,400.0	7,500.0	7,612.6	7,541.3	76.5	18.5	90.99	3,579.4	1,994.9	257.8	170.1	87.68	2.940	
11,500.0	7,500.0	7,614.2	7,542.8	78.0	18.5	91.46	3,579.4	1,994.9	334.3	252.4	81.82	4.085	
11,600.0	7,500.0	7,615.7	7,544.3	79.6	18.5	91.92	3,579.5	1,994.9	420.7	343.7	77.05	5.460	
11,700.0	7,500.0	7,617.2	7,545.8	81.1	18.5	92.37	3,579.5	1,994.9	512.1	438.6	73.54	6.963	
11,800.0	7,500.0	7,618.7	7,547.3	82.7	18.5	92.83	3,579.5	1,994.9	606.2	535.2	70.96	8.543	
11,900.0	7,500.0	7,620.2	7,548.8	84.3	18.5	93.29	3,579.5	1,994.9	702.0	632.9	69.02	10.170	
12,000.0	7,500.0	7,621.7	7,550.3	85.9	18.5	93.74	3,579.6	1,994.9	798.7	731.2	67.52	11.829	
12,100.0	7,500.0	7,623.2	7,551.8	87.5	18.5	94.19	3,579.6	1,994.9	896.2	829.9	66.34	13.509	
12,200.0	7,500.0	7,624.6	7,553.3	89.1	18.5	94.64	3,579.6	1,994.9	994.2	928.8	65.40	15.203	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,000.0	6,710.7	9,704.8	7,530.0	36.5	48.3	-3.99	-58.0	2,373.1	936.6	905.2	31.45	29.778		
7,100.0	6,805.5	9,705.8	7,530.0	37.1	48.3	-3.74	-59.0	2,373.1	839.9	807.5	32.38	25.936		
7,200.0	6,900.3	9,706.8	7,530.0	37.7	48.3	-3.48	-60.0	2,373.1	744.1	710.5	33.53	22.190		
7,300.0	6,995.1	9,704.2	7,530.0	38.3	48.2	32.13	-57.4	2,373.1	649.7	614.7	34.95	18.587		
7,400.0	7,088.7	9,685.5	7,530.0	38.9	48.0	71.23	-38.7	2,373.1	559.4	522.8	36.65	15.265		
7,500.0	7,178.2	9,650.2	7,530.0	39.3	47.6	91.90	-3.4	2,373.1	477.2	438.6	38.67	12.342		
7,600.0	7,261.0	9,599.2	7,530.0	39.8	46.9	101.32	47.6	2,373.1	407.0	366.0	40.98	9.932		
7,700.0	7,334.6	9,534.2	7,530.0	40.2	46.1	104.04	112.6	2,373.1	352.2	308.8	43.32	8.130		
7,800.0	7,396.6	9,457.1	7,530.0	40.5	45.2	102.52	189.7	2,373.1	314.8	269.6	45.19	6.967		
7,900.0	7,445.3	9,370.3	7,530.0	40.9	44.1	98.65	276.6	2,373.1	294.4	248.2	46.14	6.380		
8,000.0	7,479.2	9,276.3	7,530.0	41.2	43.1	94.29	370.5	2,373.1	287.6	241.4	46.21	6.224 SF		
8,015.6	7,483.0	9,261.2	7,530.0	41.2	42.9	93.69	385.6	2,373.1	287.5	241.3	46.18	6.225 CC, ES		
8,100.0	7,497.1	9,178.1	7,530.0	41.5	42.0	91.12	468.7	2,373.0	290.2	244.4	45.85	6.331		
8,200.0	7,500.0	9,078.6	7,530.0	41.8	40.9	90.19	568.2	2,373.0	298.8	253.4	45.44	6.576		
8,300.0	7,500.0	8,979.1	7,530.0	42.1	39.9	90.19	667.8	2,373.0	308.4	263.2	45.15	6.831		
8,400.0	7,500.0	8,879.5	7,530.0	42.5	39.0	90.18	767.3	2,373.0	318.0	273.0	44.96	7.072		
8,500.0	7,500.0	8,780.0	7,530.0	43.0	38.1	90.18	866.8	2,373.0	327.5	282.7	44.87	7.299		
8,600.0	7,500.0	8,680.4	7,530.0	43.6	37.2	90.17	966.4	2,373.0	337.1	292.2	44.87	7.512		
8,700.0	7,500.0	8,580.9	7,530.0	44.2	36.5	90.17	1,065.9	2,372.9	346.7	301.7	44.97	7.708		
8,800.0	7,500.0	8,481.4	7,530.0	44.9	35.8	90.16	1,165.5	2,372.9	356.2	311.1	45.17	7.886		
8,900.0	7,500.0	8,381.8	7,530.0	45.7	35.1	90.16	1,265.0	2,372.9	365.8	320.3	45.47	8.044		
9,000.0	7,500.0	8,282.3	7,530.0	46.5	34.6	90.15	1,364.5	2,372.9	375.4	329.5	45.89	8.180		
9,100.0	7,500.0	8,182.7	7,530.0	47.3	34.1	90.15	1,464.1	2,372.9	384.9	338.5	46.43	8.290		
9,200.0	7,500.0	8,091.2	7,527.7	48.2	33.7	89.81	1,555.6	2,373.5	395.2	347.1	48.07	8.221		
9,300.0	7,500.0	8,005.7	7,516.0	49.2	33.4	88.16	1,640.1	2,376.4	408.5	358.0	50.43	8.100		
9,400.0	7,500.0	7,924.6	7,496.0	50.2	33.1	85.46	1,718.5	2,381.5	425.9	372.7	53.20	8.005		
9,500.0	7,500.0	7,850.0	7,470.1	51.2	32.9	82.19	1,788.1	2,388.0	448.5	392.1	56.40	7.953		
9,600.0	7,500.0	7,781.1	7,440.1	52.3	32.7	78.64	1,849.6	2,395.7	477.6	417.9	59.70	7.999		
9,700.0	7,500.0	7,719.7	7,408.6	53.4	32.5	75.20	1,901.7	2,403.6	513.7	450.4	63.25	8.121		
9,800.0	7,500.0	7,665.1	7,377.0	54.5	32.4	72.01	1,945.6	2,411.6	557.0	490.6	66.44	8.384		
9,900.0	7,500.0	7,616.7	7,346.4	55.7	32.3	69.14	1,982.3	2,419.4	607.3	537.9	69.41	8.750		
10,000.0	7,500.0	7,573.8	7,317.4	56.9	32.2	66.62	2,012.9	2,426.8	664.0	592.0	72.02	9.219		
10,100.0	7,500.0	7,535.9	7,290.3	58.1	32.1	64.42	2,038.5	2,433.6	726.3	652.0	74.24	9.782		
10,200.0	7,500.0	7,500.0	7,263.4	59.4	32.0	62.38	2,061.3	2,440.5	793.4	717.4	75.99	10.442		
10,300.0	7,500.0	7,472.4	7,242.0	60.7	31.9	60.86	2,077.9	2,445.9	864.7	787.1	77.63	11.139		
10,400.0	7,500.0	7,450.0	7,224.2	62.0	31.8	59.64	2,090.7	2,450.4	939.6	860.6	79.03	11.889		
10,500.0	7,500.0	7,422.0	7,201.4	63.4	31.8	58.16	2,105.9	2,456.2	1,017.5	937.5	79.92	12.731		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,300.0	6,995.1	9,886.7	7,770.0	38.3	45.8	30.42	-57.4	2,623.1	994.4	958.1	36.27	27.419		
7,400.0	7,088.7	9,868.0	7,770.0	38.9	45.5	69.73	-38.7	2,623.1	905.6	868.2	37.38	24.223		
7,500.0	7,178.2	9,832.7	7,770.0	39.3	45.1	92.47	-3.3	2,623.1	823.8	785.3	38.50	21.396		
7,600.0	7,261.0	9,781.7	7,770.0	39.8	44.4	104.86	47.6	2,623.1	751.9	712.3	39.58	18.995		
7,700.0	7,334.6	9,716.7	7,770.0	40.2	43.5	111.39	112.7	2,623.1	692.2	651.7	40.58	17.059		
7,800.0	7,396.6	9,639.6	7,770.0	40.5	42.5	114.47	189.8	2,623.1	646.4	605.0	41.41	15.608		
7,900.0	7,445.3	9,552.8	7,770.0	40.9	41.4	115.47	276.6	2,623.1	614.8	572.8	42.02	14.634		
8,000.0	7,479.2	9,458.8	7,770.0	41.2	40.3	115.29	370.5	2,623.1	597.2	554.9	42.34	14.105		
8,086.1	7,495.6	9,374.4	7,770.0	41.4	39.3	114.66	454.9	2,623.1	592.6	550.2	42.42	13.971 CC, ES		
8,100.0	7,497.1	9,360.6	7,770.0	41.5	39.1	114.53	468.7	2,623.1	592.7	550.3	42.40	13.978		
8,200.0	7,500.0	9,261.1	7,770.0	41.8	38.0	113.80	568.3	2,623.0	599.4	557.1	42.26	14.185		
8,300.0	7,500.0	9,161.6	7,770.0	42.1	36.9	113.44	667.8	2,623.0	608.2	566.0	42.15	14.428		
8,400.0	7,500.0	9,062.0	7,770.0	42.5	35.8	113.09	767.3	2,623.0	617.0	574.8	42.14	14.641		
8,500.0	7,500.0	8,962.5	7,770.0	43.0	34.8	112.74	866.9	2,623.0	625.8	583.6	42.21	14.825		
8,600.0	7,500.0	8,862.9	7,770.0	43.6	33.9	112.41	966.4	2,623.0	634.6	592.3	42.37	14.979		
8,700.0	7,500.0	8,763.4	7,770.0	44.2	33.0	112.09	1,066.0	2,623.0	643.5	600.9	42.60	15.104		
8,800.0	7,500.0	8,663.9	7,770.0	44.9	32.2	111.77	1,165.5	2,622.9	652.4	609.5	42.93	15.198		
8,900.0	7,500.0	8,564.3	7,770.0	45.7	31.5	111.46	1,265.0	2,622.9	661.3	617.9	43.34	15.258		
9,000.0	7,500.0	8,464.8	7,770.0	46.5	30.9	111.16	1,364.6	2,622.9	670.2	626.3	43.86	15.281		
9,100.0	7,500.0	8,365.2	7,770.0	47.3	30.4	110.87	1,464.1	2,622.9	679.1	634.6	44.49	15.265		
9,200.0	7,500.0	8,254.8	7,766.0	48.2	29.9	110.23	1,574.4	2,623.7	687.6	642.9	44.62	15.409		
9,300.0	7,500.0	8,142.9	7,746.0	49.2	29.4	108.25	1,684.3	2,627.8	694.2	648.8	45.34	15.310		
9,400.0	7,500.0	8,040.3	7,713.0	50.2	29.1	105.27	1,781.2	2,634.7	700.3	653.1	47.20	14.839		
9,500.0	7,500.0	7,949.3	7,672.8	51.2	28.8	101.77	1,862.2	2,643.0	708.1	658.2	49.97	14.172		
9,600.0	7,500.0	7,870.7	7,630.1	52.3	28.6	98.16	1,927.7	2,651.8	719.8	666.4	53.36	13.490		
9,700.0	7,500.0	7,800.0	7,586.0	53.4	28.5	94.53	1,982.1	2,661.0	737.0	680.1	56.93	12.947		
9,800.0	7,500.0	7,750.0	7,551.7	54.5	28.4	91.78	2,017.7	2,668.1	761.2	700.2	60.92	12.495		
9,900.0	7,500.0	7,700.0	7,515.1	55.7	28.3	88.92	2,050.9	2,675.7	792.7	728.2	64.54	12.283 SF		
10,000.0	7,500.0	7,650.0	7,476.2	56.9	28.2	85.99	2,081.3	2,683.8	831.9	764.1	67.72	12.284		
10,100.0	7,500.0	7,620.8	7,452.6	58.1	28.1	84.25	2,097.8	2,688.7	878.1	807.1	71.02	12.364		
10,200.0	7,500.0	7,600.0	7,435.4	59.4	28.1	83.01	2,108.9	2,692.2	931.1	857.1	74.00	12.582		
10,300.0	7,500.0	7,563.4	7,404.5	60.7	28.0	80.82	2,127.3	2,698.7	989.7	913.6	76.10	13.006		
10,400.0	7,500.0	7,550.0	7,392.8	62.0	28.0	80.02	2,133.6	2,701.1	1,053.7	975.4	78.27	13.462		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
7,400.0	7,088.7	9,583.6	7,530.0	38.9	42.8	55.28	-43.4	2,914.5	1,008.1	962.0	46.14	21.850		
7,500.0	7,178.2	9,548.1	7,530.0	39.3	42.3	74.29	-8.0	2,914.7	950.0	903.0	47.00	20.211		
7,600.0	7,261.0	9,497.0	7,530.0	39.8	41.6	84.69	43.1	2,915.0	903.3	855.8	47.51	19.015		
7,700.0	7,334.6	9,431.9	7,530.0	40.2	40.7	89.93	108.2	2,915.3	868.9	821.2	47.64	18.238		
7,800.0	7,396.6	9,354.7	7,530.0	40.5	39.6	92.05	185.4	2,915.7	846.2	798.8	47.45	17.833		
7,900.0	7,445.3	9,267.9	7,530.0	40.9	38.4	92.33	272.3	2,916.1	834.1	787.0	47.04	17.730		
7,994.8	7,477.8	9,178.9	7,530.0	41.1	37.2	91.73	361.2	2,916.6	830.7	784.1	46.57	17.837 CC, ES		
8,000.0	7,479.2	9,173.9	7,530.0	41.2	37.1	91.69	366.2	2,916.6	830.7	784.1	46.54	17.849		
8,100.0	7,497.1	9,075.7	7,530.0	41.5	35.8	90.72	464.4	2,917.1	834.3	788.3	46.05	18.118		
8,200.0	7,500.0	8,976.3	7,530.0	41.8	34.6	90.14	563.9	2,917.6	843.4	797.8	45.64	18.479		
8,300.0	7,500.0	8,876.8	7,530.0	42.1	33.3	90.13	663.4	2,918.1	853.5	808.2	45.35	18.820		
8,400.0	7,500.0	8,777.3	7,530.0	42.5	32.2	90.13	762.9	2,918.6	863.6	818.4	45.16	19.121		
8,500.0	7,500.0	8,677.8	7,530.0	43.0	31.0	90.13	862.3	2,919.1	873.7	828.6	45.08	19.383		
8,600.0	7,500.0	8,578.3	7,530.0	43.6	30.0	90.13	961.8	2,919.6	883.8	838.7	45.08	19.606		
8,700.0	7,500.0	8,478.8	7,530.0	44.2	29.0	90.13	1,061.3	2,920.1	893.9	848.7	45.17	19.788		
8,800.0	7,500.0	8,379.3	7,530.0	44.9	28.1	90.13	1,160.8	2,920.7	904.0	858.6	45.36	19.928		
8,900.0	7,500.0	8,279.8	7,530.0	45.7	27.2	90.13	1,260.3	2,921.2	914.0	868.4	45.65	20.021		
9,000.0	7,500.0	8,180.3	7,530.0	46.5	26.5	90.12	1,359.8	2,921.7	924.1	878.1	46.06	20.064		
9,100.0	7,500.0	8,080.8	7,530.0	47.3	25.8	90.12	1,459.3	2,922.2	934.2	887.6	46.59	20.053		
9,200.0	7,500.0	7,992.3	7,528.3	48.2	25.3	90.02	1,547.8	2,922.9	944.7	896.9	47.81	19.757		
9,300.0	7,500.0	7,912.3	7,518.4	49.2	24.9	89.42	1,627.1	2,925.0	956.9	907.4	49.56	19.309		
9,400.0	7,500.0	7,835.6	7,500.9	50.2	24.6	88.38	1,701.6	2,928.3	971.4	919.9	51.53	18.852		
9,500.0	7,500.0	7,763.8	7,477.4	51.2	24.4	87.01	1,769.3	2,932.7	988.7	935.0	53.75	18.397		
9,600.0	7,500.0	7,700.0	7,451.0	52.3	24.2	85.51	1,827.2	2,937.5	1,009.4	953.2	56.25	17.946		
9,700.0	7,500.0	7,637.6	7,420.4	53.4	24.0	83.80	1,881.3	2,943.0	1,034.0	975.3	58.70	17.615 SF		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS														Offset Site Error:	0.0 ft
Survey Program: 7894-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-173.27	-982.4	-115.9	989.3						
100.0	100.0	88.0	88.0	0.2	0.2	-173.27	-982.4	-115.9	989.3	989.0	0.31	3,236.773			
200.0	200.0	188.0	188.0	0.3	0.3	-173.27	-982.4	-115.9	989.3	988.6	0.65	1,511.022 CC			
300.0	300.0	288.0	288.0	0.5	0.5	95.00	-982.4	-115.9	989.3	988.3	1.00	984.737			
400.0	400.0	388.0	388.0	0.7	0.7	95.15	-982.4	-115.9	989.6	988.2	1.36	728.232 ES			
500.0	499.9	487.9	487.9	0.9	0.9	95.39	-982.4	-115.9	990.0	988.2	1.72	575.252			
600.0	599.7	587.7	587.7	1.1	1.0	95.74	-982.4	-115.9	990.6	988.5	2.09	472.968			
700.0	699.4	687.4	687.4	1.3	1.2	96.18	-982.4	-115.9	991.4	988.9	2.48	399.383			
800.0	798.9	786.9	786.9	1.5	1.4	96.72	-982.4	-115.9	992.5	989.6	2.89	343.718			
900.0	898.3	886.3	886.3	1.8	1.5	97.35	-982.4	-115.9	993.9	990.5	3.31	300.072			
1,000.0	997.4	985.4	985.4	2.0	1.7	98.07	-982.4	-115.9	995.6	991.9	3.76	264.939			
1,100.0	1,096.3	1,084.3	1,084.3	2.3	1.9	98.88	-982.4	-115.9	997.8	993.6	4.23	236.096			
1,200.0	1,194.9	1,182.9	1,182.9	2.7	2.1	99.77	-982.4	-115.9	1,000.5	995.8	4.72	212.061			
1,300.0	1,293.3	1,281.3	1,281.3	3.0	2.2	100.75	-982.4	-115.9	1,003.8	998.6	5.23	191.801 SF			

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	88.0	88.0	0.0	0.2	-44.25	131.9	-128.5	184.1					
100.0	100.0	188.0	188.0	0.2	0.3	-44.25	131.9	-128.5	184.1	183.6	0.48	383.417		
200.0	200.0	288.0	288.0	0.3	0.5	-44.25	131.9	-128.5	184.1	183.3	0.83	222.017 CC, ES		
300.0	300.0	388.0	388.0	0.5	0.7	-136.21	131.9	-128.5	184.7	183.6	1.18	156.721		
400.0	400.0	488.0	488.0	0.7	0.9	-136.75	131.9	-128.5	186.6	185.1	1.53	121.966		
500.0	499.9	587.9	587.9	0.9	1.0	-137.63	131.9	-128.5	189.8	187.9	1.89	100.703		
600.0	599.7	687.7	687.7	1.1	1.2	-138.82	131.9	-128.5	194.4	192.1	2.24	86.613		
700.0	699.4	787.4	787.4	1.3	1.4	-140.25	131.9	-128.5	200.4	197.8	2.61	76.816		
800.0	798.9	886.9	886.9	1.5	1.5	-141.89	131.9	-128.5	207.8	204.9	2.98	69.814		
900.0	898.3	986.3	986.3	1.8	1.7	-143.68	131.9	-128.5	216.9	213.5	3.35	64.752		
1,000.0	997.4	1,085.4	1,085.4	2.0	1.9	-145.56	131.9	-128.5	227.5	223.8	3.72	61.100		
1,100.0	1,096.3	1,184.3	1,184.3	2.3	2.1	-147.49	131.9	-128.5	239.9	235.8	4.10	58.513		
1,200.0	1,194.9	1,282.9	1,282.9	2.7	2.2	-149.41	131.9	-128.5	254.0	249.6	4.48	56.753		
1,300.0	1,293.3	1,381.3	1,381.3	3.0	2.4	-151.29	131.9	-128.5	269.9	265.1	4.85	55.648		
1,400.0	1,391.2	1,479.2	1,479.2	3.4	2.6	-153.11	131.9	-128.5	287.7	282.4	5.22	55.073		
1,500.0	1,488.9	1,576.9	1,576.9	3.8	2.8	-154.84	131.9	-128.5	307.2	301.6	5.59	54.929 SF		
1,600.0	1,586.1	1,674.1	1,674.1	4.3	2.9	-156.48	131.9	-128.5	328.6	322.6	5.96	55.142		
1,700.0	1,682.9	1,770.9	1,770.9	4.7	3.1	-158.01	131.9	-128.5	351.8	345.4	6.32	55.652		
1,800.0	1,779.3	1,867.3	1,867.3	5.2	3.3	-159.44	131.9	-128.5	376.8	370.1	6.68	56.410		
1,900.0	1,875.2	1,963.2	1,963.2	5.8	3.4	-160.75	131.9	-128.5	403.6	396.6	7.03	57.379		
2,000.0	1,970.5	2,058.5	2,058.5	6.3	3.6	-161.97	131.9	-128.5	432.3	424.9	7.39	58.527		
2,100.0	2,065.4	2,153.4	2,153.4	6.9	3.8	-163.12	131.9	-128.5	462.5	454.8	7.73	59.817		
2,200.0	2,160.2	2,248.2	2,248.2	7.5	3.9	-164.19	131.9	-128.5	493.2	485.1	8.07	61.076		
2,300.0	2,255.0	2,343.0	2,343.0	8.1	4.1	-165.14	131.9	-128.5	524.0	515.5	8.41	62.266		
2,400.0	2,349.8	2,437.8	2,437.8	8.7	4.3	-165.98	131.9	-128.5	554.9	546.1	8.75	63.391		
2,500.0	2,444.6	2,532.6	2,532.6	9.3	4.4	-166.73	131.9	-128.5	585.9	576.8	9.09	64.454		
2,600.0	2,539.4	2,627.4	2,627.4	9.9	4.6	-167.41	131.9	-128.5	617.0	607.6	9.43	65.458		
2,700.0	2,634.2	2,722.2	2,722.2	10.5	4.8	-168.02	131.9	-128.5	648.2	638.4	9.76	66.406		
2,800.0	2,729.0	2,817.0	2,817.0	11.1	4.9	-168.58	131.9	-128.5	679.4	669.3	10.09	67.302		
2,900.0	2,823.8	2,911.8	2,911.8	11.7	5.1	-169.08	131.9	-128.5	710.7	700.2	10.43	68.150		
3,000.0	2,918.6	3,006.6	3,006.6	12.3	5.2	-169.55	131.9	-128.5	742.0	731.2	10.76	68.952		
3,100.0	3,013.4	3,101.4	3,101.4	12.9	5.4	-169.97	131.9	-128.5	773.4	762.3	11.09	69.713		
3,200.0	3,108.2	3,196.2	3,196.2	13.5	5.6	-170.37	131.9	-128.5	804.8	793.3	11.43	70.433		
3,300.0	3,203.0	3,291.0	3,291.0	14.1	5.7	-170.73	131.9	-128.5	836.2	824.4	11.76	71.117		
3,400.0	3,297.8	3,385.8	3,385.8	14.7	5.9	-171.07	131.9	-128.5	867.7	855.6	12.09	71.766		
3,500.0	3,392.6	3,480.6	3,480.6	15.3	6.1	-171.39	131.9	-128.5	899.2	886.7	12.42	72.383		
3,600.0	3,487.4	3,575.4	3,575.4	15.9	6.2	-171.68	131.9	-128.5	930.7	917.9	12.75	72.970		
3,700.0	3,582.2	3,670.2	3,670.2	16.5	6.4	-171.95	131.9	-128.5	962.2	949.1	13.09	73.530		
3,800.0	3,677.0	3,765.0	3,765.0	17.1	6.6	-172.21	131.9	-128.5	993.7	980.3	13.42	74.062		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - 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		
8,700.0	7,500.0	7,570.5	7,567.8	44.2	13.3	-91.28	1,610.8	1,130.5	1,048.7	997.0	51.71	20.279		
8,800.0	7,500.0	7,572.9	7,570.3	44.9	13.3	-91.45	1,610.9	1,130.6	992.0	940.6	51.43	19.288		
8,900.0	7,500.0	7,575.4	7,572.7	45.7	13.3	-91.62	1,610.9	1,130.7	942.5	891.7	50.87	18.527		
9,000.0	7,500.0	7,577.7	7,575.0	46.5	13.3	-91.78	1,611.0	1,130.8	901.5	851.5	49.98	18.038		
9,100.0	7,500.0	7,580.0	7,577.3	47.3	13.3	-91.93	1,611.1	1,130.9	870.1	821.4	48.69	17.868 SF		
9,200.0	7,500.0	7,582.2	7,579.5	48.2	13.3	-92.08	1,611.1	1,131.0	849.3	802.3	47.01	18.068		
9,300.0	7,500.0	7,584.4	7,581.7	49.2	13.3	-92.23	1,611.2	1,131.0	840.0	795.0	44.96	18.683 ES		
9,328.6	7,500.0	7,585.0	7,582.3	49.4	13.3	-92.27	1,611.2	1,131.1	839.5	795.2	44.32	18.941 CC		
9,400.0	7,500.0	7,586.5	7,583.8	50.2	13.3	-92.38	1,611.2	1,131.1	842.5	799.9	42.66	19.751		
9,500.0	7,500.0	7,588.6	7,585.9	51.2	13.3	-92.52	1,611.3	1,131.2	856.8	816.5	40.26	21.282		
9,600.0	7,500.0	7,590.6	7,587.9	52.3	13.3	-92.66	1,611.3	1,131.3	882.2	844.3	37.95	23.250		
9,700.0	7,500.0	7,592.6	7,589.9	53.4	13.3	-92.79	1,611.4	1,131.4	917.9	882.0	35.89	25.578		
9,800.0	7,500.0	7,600.0	7,597.3	54.5	13.3	-93.30	1,611.6	1,131.6	962.7	928.5	34.22	28.132		
9,900.0	7,500.0	7,600.0	7,597.3	55.7	13.3	-93.30	1,611.6	1,131.6	1,015.4	982.4	32.98	30.790		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - 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	
3,100.0	3,013.4	3,449.8	3,308.8	12.9	16.7	-56.86	724.4	1,260.6	1,005.2	982.1	23.11	43.503	
3,200.0	3,108.2	3,521.0	3,376.2	13.5	17.1	-57.03	701.5	1,263.4	964.4	940.4	23.96	40.254	
3,300.0	3,203.0	3,595.0	3,446.5	14.1	17.6	-57.23	678.9	1,267.2	925.4	900.5	24.81	37.293	
3,400.0	3,297.8	3,674.5	3,522.2	14.7	18.0	-57.44	655.0	1,272.0	887.4	861.7	25.69	34.545	
3,500.0	3,392.6	3,752.9	3,597.0	15.3	18.4	-57.66	632.3	1,277.5	850.9	824.4	26.54	32.060	
3,600.0	3,487.4	3,840.3	3,681.3	15.9	18.8	-58.13	609.6	1,282.2	815.8	788.5	27.34	29.842	
3,700.0	3,582.2	3,962.0	3,799.1	16.5	19.4	-59.19	579.3	1,284.5	779.7	751.7	28.02	27.825	
3,800.0	3,677.0	4,067.7	3,900.4	17.1	20.0	-60.11	549.2	1,285.1	740.2	711.4	28.75	25.742	
3,900.0	3,771.8	4,148.0	3,977.0	17.7	20.4	-60.66	525.3	1,288.1	701.4	671.8	29.61	23.687	
4,000.0	3,866.6	4,259.1	4,082.2	18.3	21.1	-61.24	490.0	1,294.1	662.1	631.7	30.40	21.778	
4,100.0	3,961.4	4,363.3	4,179.8	18.9	21.8	-61.76	453.9	1,298.9	620.0	588.9	31.18	19.885	
4,200.0	4,056.2	4,452.4	4,263.1	19.5	22.4	-62.27	422.5	1,302.6	577.3	545.3	32.03	18.022	
4,300.0	4,151.0	4,531.8	4,337.6	20.1	22.8	-62.77	395.1	1,306.5	535.6	502.7	32.95	16.256	
4,400.0	4,245.8	4,609.7	4,411.3	20.7	23.3	-63.47	370.4	1,310.5	496.4	462.5	33.85	14.663	
4,500.0	4,340.6	4,694.4	4,492.1	21.3	23.7	-64.47	345.7	1,315.2	459.5	424.8	34.67	13.253	
4,600.0	4,435.4	4,785.1	4,579.0	21.9	24.2	-65.78	319.9	1,320.1	423.4	388.0	35.40	11.962	
4,700.0	4,530.3	4,877.5	4,667.9	22.5	24.7	-67.61	294.9	1,323.9	388.1	352.1	36.01	10.778	
4,800.0	4,625.1	4,966.4	4,753.6	23.1	25.1	-69.96	271.5	1,326.2	353.3	316.8	36.55	9.667	
4,900.0	4,719.9	5,050.7	4,835.3	23.7	25.5	-72.68	251.1	1,328.9	321.2	284.2	37.03	8.674	
5,000.0	4,814.7	5,135.9	4,918.5	24.4	25.8	-76.05	232.8	1,331.9	292.8	255.5	37.30	7.848	
5,100.0	4,909.5	5,222.7	5,003.8	25.0	26.1	-80.38	216.8	1,334.5	268.4	231.2	37.28	7.201	
5,200.0	5,004.3	5,311.9	5,091.9	25.6	26.4	-85.73	202.8	1,336.6	248.7	211.7	36.93	6.733	
5,300.0	5,099.1	5,402.4	5,181.5	26.2	26.6	-92.03	190.1	1,338.5	233.5	197.1	36.41	6.413	
5,400.0	5,193.9	5,492.0	5,270.4	26.8	26.8	-99.03	179.3	1,339.6	223.9	187.9	36.09	6.205	
5,489.6	5,278.8	5,571.8	5,349.7	27.3	27.0	-105.63	171.4	1,340.2	221.1	184.7	36.38	6.078 CC	
5,500.0	5,288.7	5,581.0	5,359.0	27.4	27.0	-106.41	170.6	1,340.2	221.1	184.7	36.45	6.067 ES	
5,600.0	5,383.5	5,671.4	5,449.1	28.0	27.2	-113.84	164.0	1,340.3	225.3	187.8	37.44	6.016 SF	
5,700.0	5,478.3	5,760.7	5,538.2	28.6	27.3	-120.48	159.5	1,341.1	235.4	196.9	38.54	6.107	
5,800.0	5,573.1	5,847.7	5,625.3	29.2	27.3	-126.04	158.1	1,341.9	251.7	212.2	39.43	6.383	
5,900.0	5,667.9	5,940.9	5,718.4	29.8	27.4	-131.44	158.0	1,340.6	273.0	232.9	40.10	6.808	
6,000.0	5,762.7	6,039.1	5,816.7	30.4	27.5	-136.17	157.8	1,340.4	295.6	255.0	40.58	7.284	
6,100.0	5,857.5	6,133.4	5,911.0	31.0	27.5	-139.96	157.6	1,341.0	319.2	278.3	40.88	7.806	
6,200.0	5,952.3	6,227.0	6,004.5	31.6	27.6	-143.16	157.9	1,341.6	344.3	303.2	41.10	8.379	
6,300.0	6,047.1	6,323.6	6,101.1	32.2	27.7	-145.97	158.4	1,342.4	370.4	329.2	41.27	8.976	
6,400.0	6,141.9	6,419.9	6,197.4	32.9	27.7	-148.40	158.8	1,343.5	396.8	355.4	41.40	9.584	
6,500.0	6,236.7	6,513.6	6,291.1	33.5	27.8	-150.48	159.2	1,344.5	423.9	382.4	41.51	10.210	
6,600.0	6,331.5	6,607.8	6,385.3	34.1	27.8	-152.36	159.5	1,345.2	451.7	410.1	41.62	10.854	
6,700.0	6,426.3	6,703.2	6,480.7	34.7	27.9	-154.05	159.7	1,345.8	480.0	438.3	41.72	11.505	
6,800.0	6,521.1	6,798.9	6,576.4	35.3	28.0	-155.57	159.8	1,346.5	508.5	466.7	41.83	12.157	
6,900.0	6,615.9	6,894.7	6,672.2	35.9	28.1	-156.94	159.8	1,347.2	537.2	495.2	41.94	12.807	
7,000.0	6,710.7	6,990.4	6,767.9	36.5	28.1	-158.18	159.6	1,348.1	566.0	523.9	42.06	13.456	
7,100.0	6,805.5	7,086.1	6,863.6	37.1	28.2	-159.31	159.4	1,349.0	594.9	552.7	42.19	14.101	
7,200.0	6,900.3	7,184.4	6,961.9	37.7	28.3	-160.38	158.9	1,350.1	623.7	581.4	42.34	14.732	
7,300.0	6,995.1	7,282.6	7,060.1	38.3	28.4	-141.17	157.7	1,351.6	650.7	608.2	42.49	15.314	
7,400.0	7,088.7	7,371.0	7,148.4	38.9	28.5	-117.40	156.5	1,352.7	671.5	628.9	42.53	15.787	
7,500.0	7,178.2	7,449.0	7,226.4	39.3	28.6	-104.11	155.9	1,353.1	687.2	644.8	42.44	16.192	
7,600.0	7,261.0	7,530.9	7,308.4	39.8	28.6	-98.18	155.4	1,352.9	699.9	657.6	42.30	16.544	
7,700.0	7,334.6	7,598.0	7,375.5	40.2	28.7	-95.60	155.2	1,352.1	712.0	669.8	42.12	16.904	
7,800.0	7,396.6	7,658.8	7,436.3	40.5	28.7	-94.86	155.0	1,351.1	726.0	683.9	42.09	17.250	
7,900.0	7,445.3	7,709.5	7,486.9	40.9	28.8	-94.57	154.9	1,350.3	743.8	701.5	42.36	17.561	
8,000.0	7,479.2	7,744.6	7,522.1	41.2	28.8	-93.58	154.8	1,349.8	767.4	724.5	42.97	17.859	
8,100.0	7,497.1	7,763.3	7,540.7	41.5	28.8	-91.35	154.8	1,349.6	797.6	753.8	43.79	18.214	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - S		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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor	Warning						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis							
8,200.0	7,500.0	7,766.2	7,543.7	41.8	28.8	-89.37	154.8	1,349.6	834.3	789.7	44.61	18.703						
8,300.0	7,500.0	7,766.2	7,543.6	42.1	28.8	-89.37	154.8	1,349.6	880.0	834.7	45.29	19.429						
8,400.0	7,500.0	7,766.1	7,543.5	42.5	28.8	-89.36	154.8	1,349.6	934.3	888.5	45.80	20.397						
8,500.0	7,500.0	7,766.0	7,543.4	43.0	28.8	-89.35	154.8	1,349.6	995.6	949.5	46.15	21.575						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - 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		
2,500.0	2,444.6	3,063.3	2,891.7	9.3	16.9	-60.92	692.9	1,018.7	995.6	979.0	16.62	59.909		
2,600.0	2,539.4	3,141.6	2,962.0	9.9	17.5	-61.47	659.1	1,012.2	940.3	923.0	17.30	54.341		
2,700.0	2,634.2	3,234.1	3,045.2	10.5	18.3	-62.22	619.3	1,004.4	885.3	867.3	17.96	49.290		
2,800.0	2,729.0	3,313.0	3,115.7	11.1	18.9	-62.90	584.5	997.8	829.4	810.8	18.64	44.495		
2,900.0	2,823.8	3,399.2	3,192.8	11.7	19.6	-63.67	546.5	991.7	774.3	755.0	19.29	40.136		
3,000.0	2,918.6	3,481.9	3,266.7	12.3	20.3	-64.58	509.8	984.8	718.6	698.6	19.93	36.058		
3,100.0	3,013.4	3,560.4	3,336.8	12.9	20.9	-65.50	474.9	979.4	663.5	642.9	20.58	32.237		
3,200.0	3,108.2	3,643.9	3,411.3	13.5	21.6	-66.58	437.8	974.1	608.9	587.7	21.19	28.739		
3,300.0	3,203.0	3,727.5	3,486.1	14.1	22.2	-68.02	401.0	967.8	554.2	532.4	21.71	25.524		
3,400.0	3,297.8	3,805.6	3,556.3	14.7	22.8	-69.79	367.3	961.0	500.1	477.9	22.19	22.532		
3,500.0	3,392.6	3,881.1	3,624.7	15.3	23.4	-72.05	336.2	953.8	447.8	425.2	22.61	19.806		
3,600.0	3,487.4	3,963.0	3,699.3	15.9	24.0	-75.10	303.3	946.2	397.2	374.3	22.87	17.369		
3,700.0	3,582.2	4,046.5	3,775.4	16.5	24.6	-78.83	269.5	939.6	347.9	324.9	23.04	15.100		
3,800.0	3,677.0	4,134.5	3,855.3	17.1	25.3	-83.77	233.2	933.2	299.8	276.7	23.09	12.984		
3,900.0	3,771.8	4,219.3	3,932.0	17.7	25.9	-89.76	197.4	928.7	253.4	230.0	23.41	10.825		
4,000.0	3,866.6	4,304.2	4,008.7	18.3	26.6	-97.64	161.1	925.4	210.0	185.5	24.53	8.561		
4,100.0	3,961.4	4,387.2	4,083.9	18.9	27.2	-108.38	126.0	922.3	172.6	144.9	27.68	6.235		
4,200.0	4,056.2	4,478.4	4,165.8	19.5	28.0	-124.81	86.2	918.7	143.7	111.2	32.50	4.420		
4,300.0	4,151.0	4,561.3	4,238.9	20.1	28.7	-144.46	47.4	914.3	130.3	93.0	37.28	3.494		
4,306.8	4,157.5	4,566.8	4,243.8	20.2	28.7	-145.86	44.7	913.9	130.2	92.7	37.47	3.474 CC, ES, SF		
4,400.0	4,245.8	4,642.8	4,310.6	20.7	29.3	-164.31	9.0	909.4	140.9	102.8	38.09	3.699		
4,500.0	4,340.6	4,727.5	4,386.0	21.3	30.0	179.51	-29.4	904.8	170.6	133.1	37.48	4.552		
4,600.0	4,435.4	4,814.6	4,465.1	21.9	30.6	168.58	-65.7	901.2	209.4	171.5	37.86	5.530		
4,700.0	4,530.3	4,903.7	4,547.5	22.5	31.2	161.63	-99.4	897.8	251.9	213.3	38.58	6.529		
4,800.0	4,625.1	4,991.1	4,629.4	23.1	31.8	157.36	-129.7	894.0	295.9	256.6	39.23	7.542		
4,900.0	4,719.9	5,083.2	4,716.6	23.7	32.3	154.51	-159.0	889.3	340.5	300.5	39.98	8.516		
5,000.0	4,814.7	5,182.0	4,811.0	24.4	32.8	152.60	-187.6	885.1	383.9	343.0	40.83	9.403		
5,100.0	4,909.5	5,280.1	4,906.0	25.0	33.2	151.62	-212.1	881.3	425.5	383.9	41.58	10.233		
5,200.0	5,004.3	5,385.3	5,008.9	25.6	33.6	151.34	-233.5	878.0	464.7	422.3	42.36	10.970		
5,300.0	5,099.1	5,482.6	5,104.8	26.2	33.9	151.46	-250.0	875.5	502.1	459.1	42.98	11.682		
5,400.0	5,193.9	5,583.4	5,204.4	26.8	34.2	151.82	-264.8	872.6	538.8	495.2	43.57	12.365		
5,500.0	5,288.7	5,682.2	5,302.6	27.4	34.4	152.52	-275.2	869.8	573.9	529.8	44.08	13.018		
5,600.0	5,383.5	5,787.2	5,407.2	28.0	34.6	153.44	-283.5	866.8	608.1	563.5	44.56	13.645		
5,700.0	5,478.3	5,893.5	5,513.4	28.6	34.7	154.52	-288.4	864.8	640.3	595.4	44.98	14.237		
5,800.0	5,573.1	5,990.5	5,610.4	29.2	34.8	155.58	-290.7	863.2	671.8	626.5	45.29	14.833		
5,900.0	5,667.9	6,088.2	5,708.0	29.8	34.8	156.71	-291.0	861.4	703.0	657.4	45.56	15.429		
6,000.0	5,762.7	6,183.0	5,802.8	30.4	34.9	157.75	-290.9	859.7	734.1	688.3	45.81	16.024		
6,100.0	5,857.5	6,276.8	5,896.6	31.0	34.9	158.68	-290.9	858.1	765.4	719.4	46.05	16.620		
6,200.0	5,952.3	6,371.4	5,991.1	31.6	35.0	159.54	-291.0	856.4	797.0	750.7	46.29	17.216		
6,300.0	6,047.1	6,466.4	6,086.1	32.2	35.0	160.33	-291.2	854.9	828.6	782.0	46.52	17.809		
6,400.0	6,141.9	6,565.5	6,185.3	32.9	35.1	161.11	-291.2	853.5	860.1	813.3	46.76	18.394		
6,500.0	6,236.7	6,666.1	6,285.8	33.5	35.1	161.85	-290.7	852.7	891.0	844.0	46.98	18.964		
6,600.0	6,331.5	6,759.2	6,379.0	34.1	35.2	162.50	-290.2	852.2	921.8	874.6	47.20	19.531		
6,700.0	6,426.3	6,852.4	6,472.1	34.7	35.3	163.09	-290.0	851.5	952.9	905.5	47.42	20.097		
6,800.0	6,521.1	6,945.7	6,565.5	35.3	35.3	163.63	-289.9	850.8	984.2	936.6	47.63	20.662		
6,900.0	6,615.9	7,038.6	6,658.3	35.9	35.4	164.13	-289.9	850.1	1,015.7	967.9	47.85	21.227		
7,000.0	6,710.7	7,130.1	6,749.9	36.5	35.4	164.60	-290.1	849.1	1,047.5	999.4	48.07	21.793		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - 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)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,500.0	7,613.6	7,532.5	44.9	19.3	-84.96	2,166.8	1,697.8	1,051.1	988.8	62.32	16.866		
8,900.0	7,500.0	7,615.8	7,534.7	45.7	19.3	-85.53	2,166.8	1,697.8	953.6	890.6	63.02	15.132		
9,000.0	7,500.0	7,618.0	7,536.9	46.5	19.3	-86.10	2,166.9	1,697.8	856.7	792.8	63.83	13.421		
9,100.0	7,500.0	7,620.3	7,539.1	47.3	19.3	-86.67	2,166.9	1,697.8	760.5	695.7	64.78	11.740		
9,200.0	7,500.0	7,622.5	7,541.3	48.2	19.3	-87.24	2,167.0	1,697.9	665.5	599.6	65.91	10.097		
9,300.0	7,500.0	7,624.7	7,543.6	49.2	19.3	-87.81	2,167.0	1,697.9	572.2	504.9	67.24	8.509		
9,400.0	7,500.0	7,626.9	7,545.8	50.2	19.3	-88.39	2,167.1	1,697.9	481.5	412.8	68.78	7.001		
9,500.0	7,500.0	7,629.2	7,548.0	51.2	19.3	-88.97	2,167.1	1,698.0	395.4	325.0	70.36	5.619		
9,600.0	7,500.0	7,631.4	7,550.3	52.3	19.3	-89.55	2,167.2	1,698.0	317.5	246.2	71.31	4.452		
9,700.0	7,500.0	7,633.6	7,552.5	53.4	19.3	-90.13	2,167.2	1,698.0	255.5	186.2	69.27	3.688 SF		
9,800.0	7,500.0	7,635.9	7,554.7	54.5	19.3	-90.71	2,167.3	1,698.0	222.9	163.4	59.49	3.748 ES		
9,827.8	7,500.0	7,636.5	7,555.4	54.8	19.3	-90.87	2,167.3	1,698.1	221.2	166.1	55.13	4.012 CC		
9,900.0	7,500.0	7,638.1	7,557.0	55.7	19.3	-91.29	2,167.3	1,698.1	232.7	189.7	42.94	5.418		
10,000.0	7,500.0	7,640.4	7,559.2	56.9	19.3	-91.87	2,167.4	1,698.1	280.3	247.9	32.39	8.653		
10,100.0	7,500.0	7,642.6	7,561.5	58.1	19.3	-92.45	2,167.4	1,698.1	350.7	318.3	32.34	10.842		
10,200.0	7,500.0	7,644.9	7,563.7	59.4	19.3	-93.04	2,167.5	1,698.2	432.9	397.0	35.91	12.055		
10,300.0	7,500.0	7,647.1	7,566.0	60.7	19.3	-93.62	2,167.5	1,698.2	521.3	482.0	39.31	13.261		
10,400.0	7,500.0	7,649.4	7,568.2	62.0	19.3	-94.20	2,167.6	1,698.2	613.3	571.3	42.00	14.604		
10,500.0	7,500.0	7,651.7	7,570.5	63.4	19.3	-94.79	2,167.7	1,698.3	707.5	663.4	44.08	16.051		
10,600.0	7,500.0	7,653.9	7,572.8	64.7	19.3	-95.37	2,167.7	1,698.3	803.0	757.3	45.71	17.570		
10,700.0	7,500.0	7,656.2	7,575.0	66.1	19.3	-95.95	2,167.8	1,698.3	899.6	852.6	47.01	19.136		
10,800.0	7,500.0	7,658.5	7,577.3	67.5	19.3	-96.97	2,167.8	1,698.3	996.9	948.9	48.06	20.743		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8320-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		
7,700.0	7,334.6	7,383.6	7,383.6	40.2	12.9	49.52	753.9	2,859.7	1,023.0	984.4	38.51	26.564		
7,800.0	7,396.6	7,445.6	7,445.6	40.5	13.0	62.45	753.9	2,859.7	965.6	929.2	36.45	26.489		
7,900.0	7,445.3	7,494.3	7,494.3	40.9	13.1	73.90	753.9	2,859.7	910.8	877.1	33.75	26.990		
8,000.0	7,479.2	7,528.2	7,528.2	41.2	13.1	82.76	753.9	2,859.7	863.3	832.6	30.68	28.135		
8,100.0	7,497.1	7,546.1	7,546.1	41.5	13.2	88.34	753.9	2,859.7	827.6	799.5	28.08	29.475		
8,200.0	7,500.0	7,549.0	7,549.0	41.8	13.2	90.00	753.9	2,859.7	807.2	779.7	27.43	29.428		
8,300.0	7,500.0	7,549.0	7,549.0	42.1	13.2	90.00	753.9	2,859.7	799.7	770.2	29.57	27.047		
8,309.6	7,500.0	7,549.0	7,549.0	42.2	13.2	90.00	753.9	2,859.7	799.7	769.8	29.90	26.746 CC, ES		
8,400.0	7,500.0	7,549.0	7,549.0	42.5	13.2	90.00	753.9	2,859.7	804.8	771.2	33.63	23.932		
8,500.0	7,500.0	7,549.0	7,549.0	43.0	13.2	90.00	753.9	2,859.7	822.1	783.7	38.39	21.411		
8,600.0	7,500.0	7,549.0	7,549.0	43.6	13.2	90.00	753.9	2,859.7	850.8	807.7	43.11	19.735		
8,700.0	7,500.0	7,549.0	7,549.0	44.2	13.2	90.00	753.9	2,859.7	889.9	842.5	47.41	18.772		
8,800.0	7,500.0	7,549.0	7,549.0	44.9	13.2	90.00	753.9	2,859.7	938.1	887.0	51.13	18.346		
8,900.0	7,500.0	7,549.0	7,549.0	45.7	13.2	90.00	753.9	2,859.7	994.0	939.8	54.27	18.315 SF		
9,000.0	7,500.0	7,549.0	7,549.0	46.5	13.2	90.00	753.9	2,859.7	1,056.5	999.6	56.87	18.577		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA 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	
1,600.0	1,586.1	1,630.0	1,629.8	4.3	2.8	-56.62	803.1	757.9	999.6	992.9	6.69	149.366	
1,700.0	1,682.9	1,721.3	1,721.2	4.7	3.0	-57.94	803.8	756.6	985.5	978.2	7.28	135.340	
1,800.0	1,779.3	1,816.6	1,816.4	5.2	3.2	-59.44	804.6	755.4	971.2	963.3	7.92	122.697	
1,900.0	1,875.2	1,911.7	1,911.6	5.8	3.3	-61.07	805.6	754.1	956.8	948.2	8.59	111.365	
2,000.0	1,970.5	2,000.0	1,999.8	6.3	3.5	-62.73	806.8	752.8	942.5	933.2	9.30	101.355	
2,100.0	2,065.4	2,091.0	2,090.8	6.9	3.7	-64.48	808.4	751.8	928.9	918.9	10.05	92.473	
2,200.0	2,160.2	2,181.5	2,181.3	7.5	3.8	-66.20	810.3	751.2	916.7	905.9	10.81	84.816	
2,300.0	2,255.0	2,274.8	2,274.6	8.1	4.0	-68.01	812.5	750.8	905.8	894.3	11.59	78.147	
2,400.0	2,349.8	2,372.9	2,372.6	8.7	4.2	-69.94	814.7	750.6	895.9	883.5	12.40	72.277	
2,500.0	2,444.6	2,472.9	2,472.6	9.3	4.3	-71.93	816.3	750.4	886.5	873.3	13.21	67.098	
2,600.0	2,539.4	2,569.8	2,569.5	9.9	4.5	-73.89	817.4	750.2	877.7	863.6	14.03	62.558	
2,700.0	2,634.2	2,666.4	2,666.1	10.5	4.7	-75.87	818.3	749.9	869.8	854.9	14.85	58.563	
2,800.0	2,729.0	2,761.3	2,761.0	11.1	4.8	-77.86	819.1	749.5	862.9	847.2	15.67	55.050	
2,900.0	2,823.8	2,856.6	2,856.3	11.7	5.0	-79.88	819.8	749.2	857.2	840.7	16.50	51.959	
3,000.0	2,918.6	2,950.9	2,950.6	12.3	5.2	-81.92	820.6	748.5	852.5	835.2	17.32	49.236	
3,100.0	3,013.4	3,045.2	3,044.9	12.9	5.3	-84.01	821.5	747.3	849.3	831.1	18.13	46.848	
3,200.0	3,108.2	3,141.3	3,140.9	13.5	5.5	-86.15	822.3	746.2	847.1	828.2	18.93	44.742	
3,300.0	3,203.0	3,235.6	3,235.2	14.1	5.7	-88.27	823.0	744.8	846.1	826.4	19.72	42.902	
3,319.1	3,221.1	3,253.2	3,252.8	14.2	5.7	-88.67	823.2	744.5	846.1	826.2	19.87	42.581 CC	
3,400.0	3,297.8	3,327.5	3,327.2	14.7	5.8	-90.35	823.9	743.3	846.6	826.1	20.49	41.318 ES	
3,500.0	3,392.6	3,419.3	3,418.9	15.3	6.0	-92.41	825.0	742.0	848.7	827.5	21.24	39.962	
3,600.0	3,487.4	3,513.4	3,513.0	15.9	6.2	-94.47	826.3	741.1	852.2	830.2	21.97	38.790	
3,700.0	3,582.2	3,600.0	3,599.6	16.5	6.3	-96.33	827.8	740.8	857.3	834.6	22.66	37.829	
3,800.0	3,677.0	3,692.0	3,691.5	17.1	6.5	-98.25	830.0	740.8	864.1	840.7	23.34	37.018	
3,900.0	3,771.8	3,788.1	3,787.6	17.7	6.7	-100.24	832.6	740.7	872.3	848.3	24.01	36.328	
4,000.0	3,866.6	3,893.4	3,892.9	18.3	6.8	-102.41	834.6	740.1	880.9	856.3	24.67	35.703	
4,100.0	3,961.4	3,989.8	3,989.3	18.9	7.0	-104.37	835.7	739.4	889.9	864.7	25.29	35.189	
4,200.0	4,056.2	4,090.0	4,089.5	19.5	7.2	-106.42	836.2	738.1	899.7	873.8	25.89	34.757	
4,300.0	4,151.0	4,179.5	4,179.0	20.1	7.3	-108.26	836.4	736.2	910.5	884.0	26.43	34.450	
4,400.0	4,245.8	4,278.8	4,278.2	20.7	7.5	-110.24	836.7	734.2	922.5	895.5	26.96	34.213	
4,500.0	4,340.6	4,374.6	4,374.1	21.3	7.7	-112.09	836.7	732.8	935.0	907.6	27.47	34.042	
4,600.0	4,435.4	4,462.0	4,461.4	21.9	7.8	-113.73	836.8	731.4	948.8	920.9	27.93	33.972 SF	
4,700.0	4,530.3	4,547.1	4,546.4	22.5	8.0	-115.33	837.5	729.2	964.5	936.1	28.36	34.013	
4,800.0	4,625.1	4,640.7	4,640.1	23.1	8.2	-117.00	839.1	726.9	981.7	952.9	28.78	34.108	
4,900.0	4,719.9	4,741.7	4,741.0	23.7	8.3	-118.75	840.1	724.9	999.1	969.9	29.21	34.208	
5,000.0	4,814.7	4,842.2	4,841.5	24.4	8.5	-120.43	840.8	722.9	1,017.1	987.5	29.61	34.351	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-7H-E168 - Hz - Plan #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	-89.60	0.4	-52.3	52.3					
100.0	100.0	100.0	100.0	0.2	0.2	-89.60	0.4	-52.3	52.3	52.0	0.30	172.344		
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.4	-52.3	52.3	51.7	0.65	80.181 CC, ES		
300.0	300.0	299.2	299.2	0.5	0.5	178.18	-0.1	-53.1	54.0	53.0	1.00	53.929		
400.0	400.0	398.2	398.2	0.7	0.7	177.01	-1.3	-55.3	58.8	57.5	1.35	43.621		
500.0	499.9	496.9	496.8	0.9	0.9	175.43	-3.5	-59.0	67.0	65.3	1.70	39.469		
600.0	599.7	595.1	594.8	1.1	1.1	173.78	-6.4	-64.1	78.5	76.4	2.05	38.343 SF		
700.0	699.4	694.3	693.8	1.3	1.3	172.90	-9.1	-70.1	92.4	90.0	2.40	38.583		
800.0	798.9	793.2	792.5	1.5	1.5	173.05	-10.5	-75.9	107.9	105.1	2.74	39.326		
900.0	898.3	891.7	890.8	1.8	1.6	173.28	-11.9	-81.7	125.0	121.9	3.09	40.459		
1,000.0	997.4	989.9	988.8	2.0	1.8	173.53	-13.2	-87.4	143.9	140.5	3.44	41.867		
1,100.0	1,096.3	1,087.7	1,086.5	2.3	2.0	173.79	-14.5	-93.2	164.5	160.7	3.78	43.473		
1,200.0	1,194.9	1,185.2	1,183.8	2.7	2.2	174.03	-15.8	-98.9	186.7	182.6	4.13	45.228		
1,300.0	1,293.3	1,282.3	1,280.7	3.0	2.4	174.27	-17.1	-104.6	210.7	206.2	4.47	47.099		
1,400.0	1,391.2	1,379.0	1,377.2	3.4	2.6	174.50	-18.4	-110.3	236.3	231.5	4.82	49.062		
1,500.0	1,488.9	1,475.1	1,473.2	3.8	2.8	174.71	-19.7	-116.0	263.6	258.5	5.16	51.098		
1,600.0	1,586.1	1,570.8	1,568.7	4.3	3.0	174.91	-21.0	-121.6	292.6	287.1	5.50	53.194		
1,700.0	1,682.9	1,666.0	1,663.7	4.7	3.2	175.10	-22.3	-127.2	323.3	317.5	5.84	55.341		
1,800.0	1,779.3	1,760.7	1,758.2	5.2	3.4	175.27	-23.6	-132.7	355.6	349.4	6.18	57.530		
1,900.0	1,875.2	1,854.7	1,852.1	5.8	3.6	175.43	-24.8	-138.3	389.6	383.1	6.52	59.755		
2,000.0	1,970.5	1,948.1	1,945.3	6.3	3.8	175.58	-26.1	-143.8	425.2	418.3	6.86	62.012		
2,100.0	2,065.4	2,041.0	2,038.0	6.9	4.0	175.72	-27.4	-149.2	462.2	455.0	7.19	64.275		
2,200.0	2,160.2	2,133.8	2,130.6	7.5	4.2	175.87	-28.6	-154.7	499.5	492.0	7.53	66.375		
2,300.0	2,255.0	2,226.6	2,223.2	8.1	4.4	175.99	-29.9	-160.1	536.8	529.0	7.86	68.297		
2,400.0	2,349.8	2,319.3	2,315.8	8.7	4.5	176.10	-31.1	-165.6	574.2	566.0	8.19	70.064		
2,500.0	2,444.6	2,412.1	2,408.4	9.3	4.7	176.19	-32.4	-171.0	611.5	602.9	8.53	71.693		
2,600.0	2,539.4	2,504.9	2,501.1	9.9	4.9	176.28	-33.6	-176.5	648.8	639.9	8.86	73.201		
2,700.0	2,634.2	2,597.6	2,593.7	10.5	5.1	176.35	-34.9	-181.9	686.1	676.9	9.20	74.600		
2,800.0	2,729.0	2,690.4	2,686.3	11.1	5.3	176.42	-36.1	-187.4	723.4	713.9	9.53	75.901		
2,900.0	2,823.8	2,783.2	2,778.9	11.7	5.5	176.48	-37.4	-192.8	760.7	750.9	9.87	77.115		
3,000.0	2,918.6	2,876.0	2,871.5	12.3	5.7	176.54	-38.6	-198.3	798.1	787.9	10.20	78.251		
3,100.0	3,013.4	2,968.7	2,964.1	12.9	5.9	176.59	-39.9	-203.8	835.4	824.9	10.53	79.314		
3,200.0	3,108.2	3,061.5	3,056.7	13.5	6.1	176.63	-41.1	-209.2	872.7	861.8	10.87	80.313		
3,300.0	3,203.0	3,154.3	3,149.3	14.1	6.2	176.67	-42.4	-214.7	910.0	898.8	11.20	81.253		
3,400.0	3,297.8	3,247.1	3,241.9	14.7	6.4	176.71	-43.6	-220.1	947.4	935.8	11.53	82.138		
3,500.0	3,392.6	3,339.8	3,334.5	15.3	6.6	176.75	-44.9	-225.6	984.7	972.8	11.87	82.975		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #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	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		
0.0	0.0	0.0	0.0	0.0	0.0	-89.54	0.4	-45.1	45.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.54	0.4	-45.1	45.1	44.8	0.30	148.383		
200.0	200.0	200.0	200.0	0.3	0.3	-89.54	0.4	-45.1	45.1	44.4	0.65	69.034 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.71	0.4	-45.1	45.9	44.9	1.00	45.851		
400.0	400.0	399.4	399.4	0.7	0.7	178.00	-0.3	-45.6	49.1	47.8	1.35	36.370		
500.0	499.9	498.6	498.6	0.9	0.9	176.10	-2.3	-47.3	55.2	53.5	1.70	32.458		
600.0	599.7	597.5	597.3	1.1	1.0	173.62	-5.5	-50.0	64.2	62.2	2.05	31.297		
700.0	699.4	697.9	697.6	1.3	1.2	171.74	-9.1	-52.7	75.0	72.6	2.41	31.155		
800.0	798.9	798.5	798.2	1.5	1.4	171.09	-11.6	-54.0	86.0	83.3	2.76	31.147 SF		
900.0	898.3	899.0	898.7	1.8	1.6	171.24	-13.0	-53.9	97.3	94.2	3.12	31.230		
1,000.0	997.4	998.2	997.9	2.0	1.7	171.65	-14.2	-53.3	109.8	106.3	3.47	31.671		
1,100.0	1,096.3	1,097.2	1,096.9	2.3	1.9	172.07	-15.3	-52.8	124.0	120.2	3.82	32.485		
1,200.0	1,194.9	1,195.9	1,195.6	2.7	2.1	172.50	-16.4	-52.2	139.9	135.7	4.17	33.578		
1,300.0	1,293.3	1,294.3	1,294.0	3.0	2.3	172.92	-17.5	-51.7	157.5	153.0	4.52	34.887		
1,400.0	1,391.2	1,392.4	1,392.1	3.4	2.4	173.31	-18.6	-51.1	176.9	172.0	4.86	36.365		
1,500.0	1,488.9	1,490.2	1,489.8	3.8	2.6	173.68	-19.7	-50.6	197.9	192.7	5.21	37.979		
1,600.0	1,586.1	1,587.5	1,587.2	4.3	2.8	174.02	-20.8	-50.0	220.7	215.1	5.56	39.704		
1,700.0	1,682.9	1,684.5	1,684.1	4.7	2.9	174.34	-21.9	-49.5	245.1	239.2	5.90	41.521		
1,800.0	1,779.3	1,781.0	1,780.6	5.2	3.1	174.62	-23.0	-48.9	271.2	265.0	6.25	43.414		
1,900.0	1,875.2	1,877.0	1,876.7	5.8	3.3	174.89	-24.0	-48.4	299.1	292.5	6.59	45.373		
2,000.0	1,970.5	1,972.6	1,972.2	6.3	3.5	175.13	-25.1	-47.8	328.5	321.6	6.93	47.386		
2,100.0	2,065.4	2,067.6	2,067.3	6.9	3.6	175.36	-26.2	-47.3	359.5	352.2	7.27	49.426		
2,200.0	2,160.2	2,162.6	2,162.2	7.5	3.8	175.57	-27.3	-46.8	390.8	383.1	7.61	51.320		
2,300.0	2,255.0	2,257.6	2,257.2	8.1	4.0	175.75	-28.3	-46.2	422.0	414.1	7.95	53.054		
2,400.0	2,349.8	2,352.6	2,352.2	8.7	4.1	175.90	-29.4	-45.7	453.3	445.0	8.29	54.647		
2,500.0	2,444.6	2,447.6	2,447.2	9.3	4.3	176.03	-30.5	-45.1	484.5	475.9	8.63	56.116		
2,600.0	2,539.4	2,542.6	2,542.2	9.9	4.5	176.15	-31.5	-44.6	515.8	506.8	8.97	57.474		
2,700.0	2,634.2	2,637.6	2,637.1	10.5	4.6	176.25	-32.6	-44.1	547.0	537.7	9.31	58.734		
2,800.0	2,729.0	2,732.5	2,732.1	11.1	4.8	176.35	-33.7	-43.5	578.3	568.6	9.65	59.906		
2,900.0	2,823.8	2,827.5	2,827.1	11.7	5.0	176.43	-34.7	-43.0	609.5	599.6	9.99	60.999		
3,000.0	2,918.6	2,922.5	2,922.1	12.3	5.1	176.51	-35.8	-42.4	640.8	630.5	10.33	62.020		
3,100.0	3,013.4	3,017.5	3,017.0	12.9	5.3	176.57	-36.9	-41.9	672.1	661.4	10.67	62.977		
3,200.0	3,108.2	3,112.5	3,112.0	13.5	5.5	176.64	-37.9	-41.4	703.3	692.3	11.01	63.875		
3,300.0	3,203.0	3,207.5	3,207.0	14.1	5.6	176.69	-39.0	-40.8	734.6	723.2	11.35	64.720		
3,400.0	3,297.8	3,302.5	3,302.0	14.7	5.8	176.75	-40.1	-40.3	765.9	754.2	11.69	65.516		
3,500.0	3,392.6	3,397.4	3,397.0	15.3	6.0	176.79	-41.1	-39.8	797.1	785.1	12.03	66.268		
3,600.0	3,487.4	3,492.4	3,491.9	15.9	6.1	176.84	-42.2	-39.2	828.4	816.0	12.37	66.978		
3,700.0	3,582.2	3,587.4	3,586.9	16.5	6.3	176.88	-43.3	-38.7	859.7	847.0	12.71	67.651		
3,800.0	3,677.0	3,682.4	3,681.9	17.1	6.5	176.92	-44.3	-38.1	890.9	877.9	13.05	68.289		
3,900.0	3,771.8	3,777.4	3,776.9	17.7	6.6	176.95	-45.4	-37.6	922.2	908.8	13.39	68.894		
4,000.0	3,866.6	3,872.4	3,871.8	18.3	6.8	176.99	-46.5	-37.1	953.5	939.7	13.72	69.470		
4,100.0	3,961.4	3,967.3	3,966.8	18.9	7.0	177.02	-47.5	-36.5	984.7	970.7	14.06	70.018		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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	-89.46	0.4	-37.5	37.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.46	0.4	-37.5	37.5	37.2	0.30	123.500		
200.0	200.0	200.0	200.0	0.3	0.3	-89.46	0.4	-37.5	37.5	36.9	0.65	57.457 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.79	0.4	-37.5	38.4	37.4	1.00	38.308		
400.0	400.0	400.0	400.0	0.7	0.7	178.87	0.4	-37.5	41.0	39.6	1.35	30.348		
500.0	499.9	499.9	499.9	0.9	0.8	178.98	0.4	-37.5	45.4	43.7	1.70	26.685		
600.0	599.7	599.7	599.7	1.1	1.0	179.10	0.4	-37.5	51.5	49.4	2.05	25.122		
700.0	699.4	700.4	700.4	1.3	1.2	179.14	0.3	-36.6	58.4	56.0	2.40	24.361		
800.0	798.9	801.2	801.2	1.5	1.4	179.04	0.0	-34.0	65.4	62.7	2.75	23.792		
900.0	898.3	902.2	902.1	1.8	1.6	178.86	-0.5	-29.6	72.4	69.3	3.10	23.349		
1,000.0	997.4	1,002.1	1,001.8	2.0	1.7	178.65	-1.1	-24.1	80.0	76.5	3.45	23.187 SF		
1,100.0	1,096.3	1,101.6	1,101.2	2.3	1.9	178.51	-1.7	-18.7	89.3	85.5	3.80	23.510		
1,200.0	1,194.9	1,201.0	1,200.4	2.7	2.1	178.42	-2.3	-13.2	100.4	96.2	4.15	24.200		
1,300.0	1,293.3	1,300.2	1,299.5	3.0	2.3	178.37	-2.9	-7.8	113.2	108.7	4.50	25.169		
1,400.0	1,391.2	1,399.2	1,398.3	3.4	2.5	178.36	-3.5	-2.3	127.7	122.8	4.84	26.359		
1,500.0	1,488.9	1,497.8	1,496.8	3.8	2.7	178.36	-4.1	3.1	143.9	138.7	5.19	27.723		
1,600.0	1,586.1	1,596.2	1,595.0	4.3	2.9	178.39	-4.7	8.5	161.9	156.3	5.54	29.231		
1,700.0	1,682.9	1,694.2	1,692.9	4.7	3.1	178.42	-5.3	13.9	181.6	175.7	5.88	30.855		
1,800.0	1,779.3	1,791.9	1,790.4	5.2	3.3	178.45	-5.9	19.2	202.9	196.7	6.23	32.576		
1,900.0	1,875.2	1,889.2	1,887.6	5.8	3.5	178.50	-6.5	24.6	226.0	219.4	6.57	34.380		
2,000.0	1,970.5	1,986.1	1,984.3	6.3	3.7	178.54	-7.1	29.9	250.8	243.9	6.92	36.254		
2,100.0	2,065.4	2,082.6	2,080.6	6.9	3.8	178.58	-7.7	35.2	277.1	269.8	7.26	38.165		
2,200.0	2,160.2	2,179.0	2,176.9	7.5	4.0	178.62	-8.3	40.5	303.7	296.1	7.60	39.939		
2,300.0	2,255.0	2,275.4	2,273.2	8.1	4.2	178.66	-8.9	45.7	330.2	322.3	7.95	41.562		
2,400.0	2,349.8	2,371.8	2,369.4	8.7	4.4	178.69	-9.5	51.0	356.8	348.5	8.29	43.050		
2,500.0	2,444.6	2,468.2	2,465.7	9.3	4.6	178.71	-10.1	56.3	383.3	374.7	8.63	44.421		
2,600.0	2,539.4	2,564.6	2,561.9	9.9	4.8	178.74	-10.6	61.6	409.9	400.9	8.97	45.688		
2,700.0	2,634.2	2,661.0	2,658.2	10.5	5.0	178.75	-11.2	66.9	436.5	427.2	9.31	46.862		
2,800.0	2,729.0	2,757.4	2,754.5	11.1	5.2	178.77	-11.8	72.2	463.0	453.4	9.66	47.953		
2,900.0	2,823.8	2,853.8	2,850.7	11.7	5.4	178.79	-12.4	77.5	489.6	479.6	10.00	48.970		
3,000.0	2,918.6	2,950.3	2,947.0	12.3	5.6	178.80	-13.0	82.8	516.2	505.8	10.34	49.919		
3,100.0	3,013.4	3,046.7	3,043.2	12.9	5.8	178.81	-13.6	88.1	542.7	532.0	10.68	50.808		
3,200.0	3,108.2	3,143.1	3,139.5	13.5	5.9	178.82	-14.2	93.4	569.3	558.2	11.02	51.643		
3,300.0	3,203.0	3,239.5	3,235.8	14.1	6.1	178.84	-14.7	98.6	595.8	584.5	11.37	52.427		
3,400.0	3,297.8	3,335.9	3,332.0	14.7	6.3	178.84	-15.3	103.9	622.4	610.7	11.71	53.165		
3,500.0	3,392.6	3,432.3	3,428.3	15.3	6.5	178.85	-15.9	109.2	649.0	636.9	12.05	53.862		
3,600.0	3,487.4	3,528.7	3,524.6	15.9	6.7	178.86	-16.5	114.5	675.5	663.1	12.39	54.520		
3,700.0	3,582.2	3,625.1	3,620.8	16.5	6.9	178.87	-17.1	119.8	702.1	689.3	12.73	55.143		
3,800.0	3,677.0	3,721.5	3,717.1	17.1	7.1	178.88	-17.7	125.1	728.6	715.6	13.07	55.734		
3,900.0	3,771.8	3,817.9	3,813.3	17.7	7.3	178.88	-18.3	130.4	755.2	741.8	13.42	56.295		
4,000.0	3,866.6	3,914.3	3,909.6	18.3	7.5	178.89	-18.9	135.7	781.8	768.0	13.76	56.828		
4,100.0	3,961.4	4,010.7	4,005.9	18.9	7.7	178.89	-19.4	141.0	808.3	794.2	14.10	57.335		
4,200.0	4,056.2	4,107.1	4,102.1	19.5	7.9	178.90	-20.0	146.3	834.9	820.4	14.44	57.818		
4,300.0	4,151.0	4,203.6	4,198.4	20.1	8.1	178.90	-20.6	151.6	861.4	846.7	14.78	58.279		
4,400.0	4,245.8	4,300.0	4,294.6	20.7	8.2	178.91	-21.2	156.8	888.0	872.9	15.12	58.719		
4,500.0	4,340.6	4,396.4	4,390.9	21.3	8.4	178.91	-21.8	162.1	914.6	899.1	15.46	59.140		
4,600.0	4,435.4	4,492.8	4,487.2	21.9	8.6	178.92	-22.4	167.4	941.1	925.3	15.81	59.543		
4,700.0	4,530.3	4,589.2	4,583.4	22.5	8.8	178.92	-23.0	172.7	967.7	951.5	16.15	59.928		
4,800.0	4,625.1	4,685.6	4,679.7	23.1	9.0	178.92	-23.5	178.0	994.3	977.8	16.49	60.298		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5												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	-89.32	0.4	-29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	-89.32	0.4	-29.9	29.9	29.6	0.30	98.619	CC, ES
200.0	200.0	200.0	200.0	0.3	0.3	-89.32	0.4	-29.9	29.9	29.3	0.65	45.881	
300.0	300.0	300.0	300.0	0.5	0.5	178.93	0.4	-29.9	30.8	29.8	1.00	30.766	
400.0	400.0	400.0	400.0	0.7	0.7	179.02	0.4	-29.9	33.4	32.1	1.35	24.754	
500.0	499.9	499.9	499.9	0.9	0.8	179.13	0.4	-29.9	37.8	36.1	1.70	22.239	
600.0	599.7	600.4	600.4	1.1	1.0	179.15	0.3	-29.1	43.0	41.0	2.05	20.994	
700.0	699.4	701.1	701.1	1.3	1.2	179.00	0.0	-26.4	48.3	45.9	2.40	20.111	
800.0	798.9	801.8	801.7	1.5	1.4	178.74	-0.5	-22.0	53.5	50.7	2.75	19.452	
900.0	898.3	902.7	902.4	1.8	1.6	178.39	-1.2	-15.9	58.7	55.6	3.10	18.939	
1,000.0	997.4	1,003.6	1,003.0	2.0	1.8	177.97	-2.0	-8.0	63.9	60.5	3.45	18.528	
1,100.0	1,096.3	1,104.0	1,102.9	2.3	2.0	177.54	-3.0	1.4	69.4	65.6	3.80	18.261	SF
1,200.0	1,194.9	1,203.7	1,202.2	2.7	2.2	177.22	-4.0	10.9	76.5	72.3	4.15	18.416	
1,300.0	1,293.3	1,303.3	1,301.3	3.0	2.5	177.01	-5.1	20.3	85.3	80.8	4.50	18.933	
1,400.0	1,391.2	1,402.8	1,400.3	3.4	2.7	176.90	-6.1	29.8	95.8	91.0	4.86	19.733	
1,500.0	1,488.9	1,502.0	1,499.1	3.8	2.9	176.86	-7.1	39.2	108.1	102.9	5.21	20.759	
1,600.0	1,586.1	1,601.0	1,597.7	4.3	3.1	176.87	-8.1	48.6	122.1	116.5	5.56	21.968	
1,700.0	1,682.9	1,699.8	1,696.0	4.7	3.4	176.92	-9.1	58.0	137.8	131.9	5.91	23.327	
1,800.0	1,779.3	1,798.3	1,794.0	5.2	3.6	176.99	-10.1	67.4	155.2	149.0	6.26	24.812	
1,900.0	1,875.2	1,896.4	1,891.7	5.8	3.8	177.07	-11.1	76.7	174.4	167.8	6.60	26.401	
2,000.0	1,970.5	1,994.2	1,989.0	6.3	4.1	177.16	-12.1	86.0	195.2	188.3	6.95	28.081	
2,100.0	2,065.4	2,091.7	2,086.1	6.9	4.3	177.25	-13.1	95.2	217.6	210.3	7.30	29.814	
2,200.0	2,160.2	2,189.1	2,183.0	7.5	4.5	177.34	-14.1	104.5	240.3	232.6	7.65	31.426	
2,300.0	2,255.0	2,286.5	2,280.0	8.1	4.8	177.41	-15.1	113.7	262.9	254.9	7.99	32.898	
2,400.0	2,349.8	2,383.9	2,376.9	8.7	5.0	177.47	-16.1	123.0	285.6	277.3	8.34	34.248	
2,500.0	2,444.6	2,481.3	2,473.9	9.3	5.2	177.52	-17.1	132.2	308.3	299.6	8.69	35.490	
2,600.0	2,539.4	2,578.7	2,570.8	9.9	5.4	177.56	-18.1	141.5	330.9	321.9	9.03	36.638	
2,700.0	2,634.2	2,676.1	2,667.8	10.5	5.7	177.60	-19.1	150.7	353.6	344.2	9.38	37.701	
2,800.0	2,729.0	2,773.5	2,764.7	11.1	5.9	177.63	-20.1	160.0	376.2	366.5	9.72	38.688	
2,900.0	2,823.8	2,870.9	2,861.7	11.7	6.1	177.66	-21.1	169.2	398.9	388.8	10.07	39.608	
3,000.0	2,918.6	2,968.3	2,958.6	12.3	6.4	177.69	-22.1	178.5	421.5	411.1	10.42	40.467	
3,100.0	3,013.4	3,065.7	3,055.6	12.9	6.6	177.72	-23.1	187.7	444.2	433.4	10.76	41.270	
3,200.0	3,108.2	3,163.1	3,152.5	13.5	6.8	177.74	-24.1	197.0	466.9	455.8	11.11	42.024	
3,300.0	3,203.0	3,260.5	3,249.5	14.1	7.1	177.76	-25.1	206.2	489.5	478.1	11.46	42.732	
3,400.0	3,297.8	3,357.9	3,346.5	14.7	7.3	177.77	-26.1	215.5	512.2	500.4	11.80	43.399	
3,500.0	3,392.6	3,455.3	3,443.4	15.3	7.5	177.79	-27.1	224.8	534.8	522.7	12.15	44.028	
3,600.0	3,487.4	3,552.7	3,540.4	15.9	7.8	177.81	-28.1	234.0	557.5	545.0	12.49	44.622	
3,700.0	3,582.2	3,650.1	3,637.3	16.5	8.0	177.82	-29.1	243.3	580.2	567.3	12.84	45.185	
3,800.0	3,677.0	3,747.5	3,734.3	17.1	8.3	177.83	-30.1	252.5	602.8	589.6	13.19	45.717	
3,900.0	3,771.8	3,844.8	3,831.2	17.7	8.5	177.84	-31.1	261.8	625.5	611.9	13.53	46.223	
4,000.0	3,866.6	3,942.2	3,928.2	18.3	8.7	177.86	-32.0	271.0	648.1	634.3	13.88	46.704	
4,100.0	3,961.4	4,039.6	4,025.1	18.9	9.0	177.87	-33.0	280.3	670.8	656.6	14.22	47.161	
4,200.0	4,056.2	4,137.0	4,122.1	19.5	9.2	177.88	-34.0	289.5	693.4	678.9	14.57	47.596	
4,300.0	4,151.0	4,234.4	4,219.0	20.1	9.4	177.88	-35.0	298.8	716.1	701.2	14.92	48.011	
4,400.0	4,245.8	4,331.8	4,316.0	20.7	9.7	177.89	-36.0	308.0	738.8	723.5	15.26	48.408	
4,500.0	4,340.6	4,429.2	4,412.9	21.3	9.9	177.90	-37.0	317.3	761.4	745.8	15.61	48.787	
4,600.0	4,435.4	4,526.6	4,509.9	21.9	10.1	177.91	-38.0	326.5	784.1	768.1	15.95	49.149	
4,700.0	4,530.3	4,624.0	4,606.8	22.5	10.4	177.92	-39.0	335.8	806.7	790.4	16.30	49.497	
4,800.0	4,625.1	4,721.4	4,703.8	23.1	10.6	177.92	-40.0	345.0	829.4	812.8	16.64	49.830	
4,900.0	4,719.9	4,818.8	4,800.8	23.7	10.8	177.93	-41.0	354.3	852.1	835.1	16.99	50.149	
5,000.0	4,814.7	4,916.2	4,897.7	24.4	11.1	177.93	-42.0	363.5	874.7	857.4	17.34	50.455	
5,100.0	4,909.5	5,013.6	4,994.7	25.0	11.3	177.94	-43.0	372.8	897.4	879.7	17.68	50.750	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5													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	5,004.3	5,111.0	5,091.6	25.6	11.5	177.95	-44.0	382.0	920.0	902.0	18.03	51.033	
5,300.0	5,099.1	5,208.4	5,188.6	26.2	11.8	177.95	-45.0	391.3	942.7	924.3	18.37	51.306	
5,400.0	5,193.9	5,305.8	5,285.5	26.8	12.0	177.96	-46.0	400.5	965.4	946.6	18.72	51.569	
5,500.0	5,288.7	5,403.2	5,382.5	27.4	12.2	177.96	-47.0	409.8	988.0	968.9	19.07	51.822	
5,600.0	5,383.5	5,500.6	5,479.4	28.0	12.5	177.96	-48.0	419.0	1,010.7	991.3	19.41	52.066	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #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	-89.07	0.4	-22.4	22.4						
100.0	100.0	100.0	100.0	0.2	0.2	-89.07	0.4	-22.4	22.4	22.1	0.30	73.738			
200.0	200.0	200.0	200.0	0.3	0.3	-89.07	0.4	-22.4	22.4	21.7	0.65	34.306 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	179.19	0.4	-22.4	23.3	22.3	1.00	23.224			
400.0	400.0	400.0	400.0	0.7	0.7	179.27	0.4	-22.4	25.9	24.5	1.35	19.161			
500.0	499.9	500.4	500.4	0.9	0.9	179.29	0.3	-21.5	29.4	27.7	1.70	17.271			
600.0	599.7	600.9	600.8	1.1	1.0	179.20	0.1	-18.9	32.9	30.8	2.05	16.024			
700.0	699.4	701.4	701.3	1.3	1.2	179.02	-0.2	-14.5	36.3	33.9	2.40	15.137			
800.0	798.9	802.0	801.7	1.5	1.4	178.78	-0.6	-8.3	39.8	37.0	2.75	14.474			
900.0	898.3	902.7	902.0	1.8	1.6	178.49	-1.1	-0.4	43.3	40.2	3.10	13.958			
1,000.0	997.4	1,003.4	1,002.3	2.0	1.8	178.16	-1.8	9.3	46.7	43.3	3.45	13.545			
1,100.0	1,096.3	1,104.2	1,102.4	2.3	2.1	177.80	-2.6	20.7	50.2	46.4	3.80	13.204			
1,200.0	1,194.9	1,204.1	1,201.6	2.7	2.3	177.51	-3.4	32.9	54.5	50.4	4.15	13.143			
1,300.0	1,293.3	1,303.9	1,300.6	3.0	2.6	177.33	-4.2	45.0	60.7	56.2	4.50	13.477			
1,400.0	1,391.2	1,403.6	1,399.6	3.4	2.9	177.26	-5.0	57.1	68.5	63.7	4.85	14.122			
1,500.0	1,488.9	1,503.1	1,498.4	3.8	3.1	177.26	-5.9	69.2	78.1	72.9	5.20	15.015			
1,600.0	1,586.1	1,602.5	1,597.0	4.3	3.4	177.32	-6.7	81.3	89.5	83.9	5.56	16.107			
1,700.0	1,682.9	1,701.6	1,695.4	4.7	3.6	177.40	-7.5	93.4	102.6	96.6	5.91	17.365			
1,800.0	1,779.3	1,800.5	1,793.5	5.2	3.9	177.51	-8.3	105.4	117.3	111.1	6.26	18.759			
1,900.0	1,875.2	1,899.1	1,891.4	5.8	4.2	177.61	-9.1	117.4	133.9	127.3	6.60	20.268			
2,000.0	1,970.5	1,997.4	1,989.0	6.3	4.4	177.72	-9.9	129.3	152.1	145.1	6.95	21.875			
2,100.0	2,065.4	2,095.5	2,086.3	6.9	4.7	177.83	-10.8	141.2	171.9	164.6	7.30	23.542			
2,200.0	2,160.2	2,193.4	2,183.6	7.5	5.0	177.93	-11.6	153.1	191.9	184.3	7.65	25.093			
2,300.0	2,255.0	2,291.4	2,280.8	8.1	5.2	178.00	-12.4	165.1	212.0	204.0	8.00	26.510			
2,400.0	2,349.8	2,389.4	2,378.0	8.7	5.5	178.06	-13.2	177.0	232.0	223.7	8.34	27.809			
2,500.0	2,444.6	2,487.3	2,475.3	9.3	5.8	178.11	-14.0	188.9	252.1	243.4	8.69	29.004			
2,600.0	2,539.4	2,585.3	2,572.5	9.9	6.0	178.16	-14.8	200.8	272.1	263.1	9.04	30.108			
2,700.0	2,634.2	2,683.3	2,669.7	10.5	6.3	178.20	-15.6	212.7	292.2	282.8	9.39	31.130			
2,800.0	2,729.0	2,781.3	2,767.0	11.1	6.6	178.23	-16.4	224.6	312.2	302.5	9.73	32.079			
2,900.0	2,823.8	2,879.2	2,864.2	11.7	6.8	178.26	-17.2	236.5	332.3	322.2	10.08	32.963			
3,000.0	2,918.6	2,977.2	2,961.5	12.3	7.1	178.29	-18.0	248.4	352.3	341.9	10.43	33.788			
3,100.0	3,013.4	3,075.2	3,058.7	12.9	7.4	178.31	-18.8	260.3	372.4	361.6	10.77	34.561			
3,200.0	3,108.2	3,173.1	3,155.9	13.5	7.6	178.33	-19.7	272.2	392.4	381.3	11.12	35.285			
3,300.0	3,203.0	3,271.1	3,253.2	14.1	7.9	178.35	-20.5	284.2	412.5	401.0	11.47	35.965			
3,400.0	3,297.8	3,369.1	3,350.4	14.7	8.2	178.37	-21.3	296.1	432.5	420.7	11.82	36.606			
3,500.0	3,392.6	3,467.0	3,447.7	15.3	8.5	178.38	-22.1	308.0	452.5	440.4	12.16	37.210			
3,600.0	3,487.4	3,565.0	3,544.9	15.9	8.7	178.40	-22.9	319.9	472.6	460.1	12.51	37.781			
3,700.0	3,582.2	3,663.0	3,642.1	16.5	9.0	178.41	-23.7	331.8	492.6	479.8	12.86	38.321			
3,800.0	3,677.0	3,761.0	3,739.4	17.1	9.3	178.42	-24.5	343.7	512.7	499.5	13.20	38.832			
3,900.0	3,771.8	3,858.9	3,836.6	17.7	9.5	178.43	-25.3	355.6	532.7	519.2	13.55	39.318			
4,000.0	3,866.6	3,956.9	3,933.9	18.3	9.8	178.44	-26.1	367.5	552.8	538.9	13.90	39.779			
4,100.0	3,961.4	4,054.9	4,031.1	18.9	10.1	178.45	-26.9	379.4	572.8	558.6	14.24	40.218			
4,200.0	4,056.2	4,152.8	4,128.3	19.5	10.3	178.46	-27.7	391.3	592.9	578.3	14.59	40.636			
4,300.0	4,151.0	4,250.8	4,225.6	20.1	10.6	178.47	-28.6	403.3	612.9	598.0	14.94	41.035			
4,400.0	4,245.8	4,348.8	4,322.8	20.7	10.9	178.48	-29.4	415.2	633.0	617.7	15.28	41.415			
4,500.0	4,340.6	4,446.7	4,420.1	21.3	11.1	178.49	-30.2	427.1	653.0	637.4	15.63	41.779			
4,600.0	4,435.4	4,544.7	4,517.3	21.9	11.4	178.49	-31.0	439.0	673.1	657.1	15.98	42.127			
4,700.0	4,530.3	4,642.7	4,614.5	22.5	11.7	178.50	-31.8	450.9	693.1	676.8	16.32	42.460			
4,800.0	4,625.1	4,740.7	4,711.8	23.1	12.0	178.50	-32.6	462.8	713.2	696.5	16.67	42.780			
4,900.0	4,719.9	4,838.6	4,809.0	23.7	12.2	178.51	-33.4	474.7	733.2	716.2	17.02	43.086			
5,000.0	4,814.7	4,936.6	4,906.3	24.4	12.5	178.52	-34.2	486.6	753.3	735.9	17.36	43.381			
5,100.0	4,909.5	5,034.6	5,003.5	25.0	12.8	178.52	-35.0	498.5	773.3	755.6	17.71	43.663			

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3										Offset Site Error: 0.0 ft			
Survey Program: O-Geolink MWD										Offset Well Error: 0.0 ft			
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,200.0	5,004.3	5,132.5	5,100.7	25.6	13.0	178.53	-35.8	510.4	793.4	775.3	18.06	43.935	
5,300.0	5,099.1	5,230.5	5,198.0	26.2	13.3	178.53	-36.6	522.4	813.4	795.0	18.40	44.197	
5,400.0	5,193.9	5,328.5	5,295.2	26.8	13.6	178.54	-37.5	534.3	833.5	814.7	18.75	44.449	
5,500.0	5,288.7	5,426.4	5,392.5	27.4	13.8	178.54	-38.3	546.2	853.5	834.4	19.10	44.692	
5,600.0	5,383.5	5,524.4	5,489.7	28.0	14.1	178.54	-39.1	558.1	873.6	854.1	19.44	44.926	
5,700.0	5,478.3	5,622.4	5,586.9	28.6	14.4	178.55	-39.9	570.0	893.6	873.8	19.79	45.152	
5,800.0	5,573.1	5,720.3	5,684.2	29.2	14.7	178.55	-40.7	581.9	913.7	893.5	20.14	45.370	
5,900.0	5,667.9	5,818.3	5,781.4	29.8	14.9	178.56	-41.5	593.8	933.7	913.2	20.48	45.581	
6,000.0	5,762.7	5,916.3	5,878.7	30.4	15.2	178.56	-42.3	605.7	953.8	932.9	20.83	45.785	
6,100.0	5,857.5	6,014.3	5,975.9	31.0	15.5	178.56	-43.1	617.6	973.8	952.6	21.18	45.982	
6,200.0	5,952.3	6,112.2	6,073.1	31.6	15.7	178.57	-43.9	629.5	993.8	972.3	21.52	46.173	
6,300.0	6,047.1	6,210.2	6,170.4	32.2	16.0	178.57	-44.7	641.5	1,013.9	992.0	21.87	46.358	
10,300.0	7,500.0	10,247.4	7,740.0	60.7	52.1	-102.77	2,649.2	810.1	1,089.7	991.8	97.82	11.140	
10,400.0	7,500.0	10,347.0	7,740.0	62.0	53.7	-102.87	2,748.8	809.2	1,081.2	980.1	101.08	10.696	
10,500.0	7,500.0	10,446.7	7,740.0	63.4	55.3	-102.98	2,848.5	808.3	1,072.7	968.3	104.34	10.280	
10,600.0	7,500.0	10,546.3	7,740.0	64.7	56.9	-103.08	2,948.1	807.5	1,064.2	956.6	107.61	9.889	
10,700.0	7,500.0	10,645.9	7,740.0	66.1	58.6	-103.19	3,047.7	806.6	1,055.7	944.8	110.88	9.521	
10,800.0	7,500.0	10,745.6	7,740.0	67.5	60.2	-103.27	3,147.4	805.7	1,047.8	933.7	114.15	9.179	
10,900.0	7,500.0	10,845.4	7,740.0	68.9	61.9	-103.34	3,247.1	804.9	1,041.6	924.2	117.44	8.869	
11,000.0	7,500.0	10,945.3	7,740.0	70.4	63.5	-103.39	3,347.0	804.0	1,037.2	916.4	120.74	8.590	
11,100.0	7,500.0	11,045.2	7,740.0	71.9	65.2	-103.42	3,447.0	803.1	1,034.4	910.3	124.06	8.338	
11,200.0	7,500.0	11,145.2	7,740.0	73.4	66.9	-103.43	3,547.0	802.2	1,033.3	905.9	127.38	8.112	
11,222.1	7,500.0	11,167.3	7,740.0	73.7	67.2	-103.43	3,569.1	802.1	1,033.2	905.1	128.12	8.065	
11,300.0	7,500.0	11,245.2	7,740.0	74.9	68.5	-103.42	3,647.0	801.4	1,033.8	903.1	130.72	7.908	
11,400.0	7,500.0	11,345.2	7,740.0	76.5	70.2	-103.41	3,747.0	800.5	1,034.6	900.6	134.06	7.717	
11,500.0	7,500.0	11,455.1	7,740.0	78.0	72.1	-103.40	3,856.9	799.8	1,035.2	897.2	138.01	7.501	
11,600.0	7,500.0	11,576.4	7,740.0	79.6	74.1	-103.42	3,978.2	801.2	1,034.1	891.5	142.60	7.252	
11,700.0	7,500.0	11,678.4	7,740.0	81.1	75.9	-103.45	4,080.1	803.7	1,031.8	885.7	146.05	7.065	
11,800.0	7,500.0	11,778.4	7,740.0	82.7	77.6	-103.49	4,180.1	806.1	1,029.4	880.0	149.38	6.891	
11,900.0	7,500.0	11,878.4	7,740.0	84.3	79.3	-103.52	4,280.0	808.6	1,027.0	874.3	152.72	6.725	
12,000.0	7,500.0	11,978.3	7,740.0	85.9	81.0	-103.55	4,380.0	811.0	1,024.7	868.6	156.06	6.566	
12,100.0	7,500.0	12,078.3	7,740.0	87.5	82.7	-103.58	4,479.9	813.4	1,022.3	862.9	159.40	6.414	
12,200.0	7,500.0	12,178.3	7,740.0	89.1	84.4	-103.61	4,579.8	815.9	1,019.9	857.2	162.74	6.267	
12,300.0	7,500.0	12,278.3	7,740.0	90.7	86.1	-103.65	4,679.8	818.3	1,017.6	851.5	166.08	6.127	
12,400.0	7,500.0	12,378.2	7,740.0	92.3	87.8	-103.68	4,779.7	820.7	1,015.2	845.8	169.42	5.992	
12,500.0	7,500.0	12,478.2	7,740.0	93.9	89.6	-103.71	4,879.7	823.2	1,012.8	840.1	172.76	5.863	
12,600.0	7,500.0	12,578.2	7,740.0	95.5	91.3	-103.74	4,979.6	825.6	1,010.5	834.4	176.11	5.738	
12,700.0	7,500.0	12,678.1	7,740.0	97.1	93.0	-103.78	5,079.6	828.0	1,008.1	828.7	179.45	5.618	
12,800.0	7,500.0	12,778.1	7,740.0	98.8	94.7	-103.81	5,179.5	830.5	1,005.8	823.0	182.79	5.502	
12,900.0	7,500.0	12,878.1	7,740.0	100.4	96.4	-103.84	5,279.4	832.9	1,003.4	817.3	186.14	5.391	
13,000.0	7,500.0	12,978.0	7,740.0	102.0	98.2	-103.88	5,379.4	835.3	1,001.0	811.6	189.48	5.283	
13,100.0	7,500.0	13,078.0	7,740.0	103.7	99.9	-103.91	5,479.3	837.7	998.7	805.8	192.83	5.179	
13,200.0	7,500.0	13,178.0	7,740.0	105.3	101.6	-103.94	5,579.3	840.2	996.3	800.1	196.17	5.079	
13,300.0	7,500.0	13,278.0	7,740.0	107.0	103.3	-103.98	5,679.2	842.6	994.0	794.4	199.52	4.982	
13,400.0	7,500.0	13,377.9	7,740.0	108.6	105.1	-104.01	5,779.1	845.0	991.6	788.7	202.86	4.888	
13,500.0	7,500.0	13,477.9	7,740.0	110.3	106.8	-104.04	5,879.1	847.5	989.2	783.0	206.21	4.797	
13,600.0	7,500.0	13,577.9	7,740.0	111.9	108.5	-104.08	5,979.0	849.9	986.9	777.3	209.55	4.709	
13,700.0	7,500.0	13,677.8	7,740.0	113.6	110.2	-104.11	6,079.0	852.3	984.5	771.6	212.90	4.624	
13,800.0	7,500.0	13,777.8	7,740.0	115.3	112.0	-104.14	6,178.9	854.8	982.3	766.0	216.24	4.542	
13,891.2	7,500.0	13,869.1	7,740.0	116.8	113.6	-104.15	6,270.1	857.0	981.5	762.2	219.32	4.475	
13,900.0	7,500.0	13,877.8	7,740.0	117.0	113.7	-104.15	6,278.9	857.2	981.5	761.9	219.61	4.469	
14,000.0	7,500.0	13,977.8	7,740.0	118.7	115.4	-104.14	6,378.8	859.6	982.6	759.6	223.01	4.406	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #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		
14,100.0	7,500.0	14,077.8	7,740.0	120.4	117.2	-104.11	6,478.8	862.1	985.5	759.1	226.43	4.353		
14,200.0	7,500.0	14,177.6	7,740.0	122.1	118.9	-104.05	6,578.6	864.5	990.4	760.5	229.88	4.308		
14,300.0	7,500.0	14,277.4	7,740.0	123.8	120.6	-103.97	6,678.3	866.9	997.0	763.7	233.35	4.273		
14,400.0	7,500.0	14,377.0	7,740.0	125.5	122.4	-103.87	6,777.9	869.3	1,005.5	768.7	236.85	4.245		
14,500.0	7,500.0	14,476.4	7,740.0	127.3	124.1	-103.75	6,877.3	871.8	1,015.9	775.5	240.36	4.226		
14,600.0	7,500.0	14,575.6	7,740.0	129.0	125.8	-103.62	6,976.5	874.2	1,028.1	784.2	243.90	4.215		
14,700.0	7,500.0	14,674.6	7,740.0	130.8	127.5	-103.47	7,075.4	876.6	1,042.2	794.7	247.45	4.212 SF		
14,767.3	7,500.0	14,699.3	7,740.0	132.0	128.0	-103.42	7,100.2	877.2	1,053.0	805.8	247.26	4.259		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-14.8	14.8					
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-14.8	14.8	14.5	0.30	48.845		
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-14.8	14.8	14.2	0.65	22.725 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.32	0.0	-14.8	15.7	14.7	1.00	15.677		
400.0	400.0	400.3	400.3	0.7	0.7	178.96	0.1	-14.0	17.5	16.1	1.35	12.919		
500.0	499.9	500.6	500.5	0.9	0.9	-179.65	0.5	-11.4	19.2	17.5	1.70	11.305		
600.0	599.7	600.9	600.8	1.1	1.0	-177.71	1.1	-7.0	21.0	19.0	2.05	10.259		
700.0	699.4	701.2	700.9	1.3	1.2	-175.36	1.9	-0.9	22.9	20.5	2.40	9.536		
800.0	798.9	801.6	801.0	1.5	1.5	-172.71	2.9	6.9	24.9	22.1	2.76	9.017		
900.0	898.3	902.0	900.9	1.8	1.7	-169.85	4.2	16.5	26.9	23.8	3.12	8.631		
1,000.0	997.4	1,002.5	1,000.7	2.0	1.9	-166.86	5.8	27.8	29.1	25.6	3.49	8.333		
1,100.0	1,096.3	1,102.9	1,100.3	2.3	2.2	-163.79	7.5	40.8	31.5	27.6	3.89	8.089		
1,200.0	1,194.9	1,203.4	1,199.6	2.7	2.5	-160.71	9.5	55.6	34.0	29.7	4.32	7.877		
1,300.0	1,293.3	1,303.8	1,298.7	3.0	2.8	-157.65	11.7	72.1	36.8	32.0	4.79	7.680		
1,400.0	1,391.2	1,404.3	1,397.5	3.4	3.2	-154.66	14.2	90.3	39.8	34.4	5.31	7.487		
1,500.0	1,488.9	1,504.5	1,495.7	3.8	3.5	-152.01	16.9	109.9	43.2	37.3	5.88	7.350		
1,600.0	1,586.1	1,604.4	1,593.6	4.3	3.9	-150.69	19.5	129.5	48.1	41.7	6.44	7.469		
1,700.0	1,682.9	1,704.2	1,691.4	4.7	4.3	-150.52	22.2	149.2	54.6	47.6	6.98	7.816		
1,800.0	1,779.3	1,803.8	1,789.1	5.2	4.7	-151.17	24.8	168.8	62.6	55.1	7.49	8.354		
1,900.0	1,875.2	1,903.4	1,886.6	5.8	5.0	-152.32	27.5	188.4	72.1	64.1	7.96	9.056		
2,000.0	1,970.5	2,002.7	1,984.0	6.3	5.4	-153.73	30.1	208.0	83.2	74.8	8.40	9.904		
2,100.0	2,065.4	2,101.9	2,081.2	6.9	5.8	-155.22	32.8	227.5	95.7	86.9	8.81	10.863		
2,200.0	2,160.2	2,201.1	2,178.4	7.5	6.2	-156.44	35.4	247.0	108.6	99.4	9.23	11.765		
2,300.0	2,255.0	2,300.2	2,275.6	8.1	6.6	-157.40	38.0	266.5	121.5	111.8	9.65	12.584		
2,400.0	2,349.8	2,399.4	2,372.7	8.7	6.9	-158.18	40.7	286.1	134.4	124.3	10.08	13.330		
2,500.0	2,444.6	2,498.5	2,469.9	9.3	7.3	-158.82	43.3	305.6	147.3	136.8	10.51	14.013		
2,600.0	2,539.4	2,597.7	2,567.1	9.9	7.7	-159.36	46.0	325.1	160.3	149.3	10.95	14.640		
2,700.0	2,634.2	2,696.8	2,664.2	10.5	8.1	-159.82	48.6	344.6	173.2	161.8	11.38	15.216		
2,800.0	2,729.0	2,795.9	2,761.4	11.1	8.5	-160.21	51.2	364.1	186.2	174.4	11.82	15.749		
2,900.0	2,823.8	2,895.1	2,858.6	11.7	8.9	-160.56	53.9	383.7	199.2	186.9	12.26	16.242		
3,000.0	2,918.6	2,994.2	2,955.8	12.3	9.3	-160.86	56.5	403.2	212.2	199.5	12.71	16.699		
3,100.0	3,013.4	3,093.4	3,052.9	12.9	9.6	-161.12	59.1	422.7	225.2	212.0	13.15	17.125		
3,200.0	3,108.2	3,192.5	3,150.1	13.5	10.0	-161.36	61.8	442.2	238.2	224.6	13.59	17.523		
3,300.0	3,203.0	3,291.7	3,247.3	14.1	10.4	-161.57	64.4	461.7	251.2	237.1	14.04	17.895		
3,400.0	3,297.8	3,390.8	3,344.4	14.7	10.8	-161.77	67.1	481.3	264.2	249.7	14.48	18.243		
3,500.0	3,392.6	3,490.0	3,441.6	15.3	11.2	-161.94	69.7	500.8	277.2	262.2	14.93	18.570		
3,600.0	3,487.4	3,589.1	3,538.8	15.9	11.6	-162.10	72.3	520.3	290.2	274.8	15.37	18.878		
3,700.0	3,582.2	3,688.3	3,636.0	16.5	12.0	-162.24	75.0	539.8	303.2	287.4	15.82	19.167		
3,800.0	3,677.0	3,787.4	3,733.1	17.1	12.4	-162.37	77.6	559.3	316.2	299.9	16.26	19.441		
3,900.0	3,771.8	3,886.6	3,830.3	17.7	12.7	-162.50	80.3	578.9	329.2	312.5	16.71	19.700		
4,000.0	3,866.6	3,985.7	3,927.5	18.3	13.1	-162.61	82.9	598.4	342.2	325.1	17.16	19.945		
4,100.0	3,961.4	4,084.9	4,024.6	18.9	13.5	-162.71	85.5	617.9	355.2	337.6	17.61	20.177		
4,200.0	4,056.2	4,184.0	4,121.8	19.5	13.9	-162.81	88.2	637.4	368.2	350.2	18.05	20.397		
4,300.0	4,151.0	4,283.2	4,219.0	20.1	14.3	-162.90	90.8	656.9	381.3	362.8	18.50	20.607		
4,400.0	4,245.8	4,382.3	4,316.2	20.7	14.7	-162.99	93.4	676.4	394.3	375.3	18.95	20.807		
4,500.0	4,340.6	4,481.5	4,413.3	21.3	15.1	-163.07	96.1	696.0	407.3	387.9	19.40	20.997		
4,600.0	4,435.4	4,580.6	4,510.5	21.9	15.5	-163.14	98.7	715.5	420.3	400.5	19.85	21.178		
4,700.0	4,530.3	4,679.7	4,607.7	22.5	15.9	-163.21	101.4	735.0	433.3	413.0	20.30	21.352		
4,800.0	4,625.1	4,778.9	4,704.8	23.1	16.2	-163.28	104.0	754.5	446.4	425.6	20.74	21.517		
4,900.0	4,719.9	4,878.0	4,802.0	23.7	16.6	-163.34	106.6	774.0	459.4	438.2	21.19	21.676		
5,000.0	4,814.7	4,977.2	4,899.2	24.4	17.0	-163.40	109.3	793.6	472.4	450.8	21.64	21.828		
5,100.0	4,909.5	5,076.3	4,996.3	25.0	17.4	-163.45	111.9	813.1	485.4	463.3	22.09	21.973		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #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	5,004.3	5,175.5	5,093.5	25.6	17.8	-163.50	114.6	832.6	498.4	475.9	22.54	22.113		
5,300.0	5,099.1	5,274.6	5,190.7	26.2	18.2	-163.55	117.2	852.1	511.5	488.5	22.99	22.247		
5,400.0	5,193.9	5,373.8	5,287.9	26.8	18.6	-163.60	119.8	871.6	524.5	501.1	23.44	22.376		
5,500.0	5,288.7	5,472.9	5,385.0	27.4	19.0	-163.65	122.5	891.2	537.5	513.6	23.89	22.500		
5,600.0	5,383.5	5,572.1	5,482.2	28.0	19.4	-163.69	125.1	910.7	550.5	526.2	24.34	22.619		
5,700.0	5,478.3	5,671.2	5,579.4	28.6	19.8	-163.73	127.7	930.2	563.6	538.8	24.79	22.734		
5,800.0	5,573.1	5,770.4	5,676.5	29.2	20.1	-163.77	130.4	949.7	576.6	551.3	25.24	22.845		
5,900.0	5,667.9	5,869.5	5,773.7	29.8	20.5	-163.81	133.0	969.2	589.6	563.9	25.69	22.952		
6,000.0	5,762.7	5,968.7	5,870.9	30.4	20.9	-163.84	135.7	988.8	602.6	576.5	26.14	23.055		
6,100.0	5,857.5	6,067.8	5,968.1	31.0	21.3	-163.88	138.3	1,008.3	615.7	589.1	26.59	23.155		
6,200.0	5,952.3	6,167.0	6,065.2	31.6	21.7	-163.91	140.9	1,027.8	628.7	601.6	27.04	23.251		
6,300.0	6,047.1	6,266.1	6,162.4	32.2	22.1	-163.94	143.6	1,047.3	641.7	614.2	27.49	23.344		
6,400.0	6,141.9	6,365.3	6,259.6	32.9	22.5	-163.97	146.2	1,066.8	654.7	626.8	27.94	23.434		
6,500.0	6,236.7	6,464.4	6,356.7	33.5	22.9	-164.00	148.9	1,086.4	667.8	639.4	28.39	23.522		
6,600.0	6,331.5	6,563.5	6,453.9	34.1	23.3	-164.03	151.5	1,105.9	680.8	652.0	28.84	23.606		
6,700.0	6,426.3	6,662.7	6,551.1	34.7	23.7	-164.06	154.1	1,125.4	693.8	664.5	29.29	23.688		
6,800.0	6,521.1	6,761.8	6,648.3	35.3	24.0	-164.08	156.8	1,144.9	706.8	677.1	29.74	23.767		
6,900.0	6,615.9	6,861.0	6,745.4	35.9	24.4	-164.11	159.4	1,164.4	719.9	689.7	30.19	23.844		
7,000.0	6,710.7	6,960.1	6,842.6	36.5	24.8	-164.13	162.0	1,184.0	732.9	702.3	30.64	23.919		
7,100.0	6,805.5	7,059.3	6,939.8	37.1	25.2	-164.15	164.7	1,203.5	745.9	714.8	31.09	23.991		
7,200.0	6,900.3	7,134.7	7,013.5	37.7	25.5	-163.94	169.9	1,218.3	760.3	728.6	31.63	24.035		
7,300.0	6,995.1	7,200.0	7,076.3	38.3	25.8	-143.38	182.2	1,231.0	776.9	744.5	32.38	23.989		
7,400.0	7,088.7	7,273.0	7,144.4	38.9	26.1	-117.58	204.5	1,244.9	790.6	757.4	33.21	23.805		
7,500.0	7,178.2	7,341.5	7,205.2	39.3	26.5	-101.86	233.3	1,257.3	800.5	766.7	33.82	23.671		
7,600.0	7,261.0	7,409.9	7,262.2	39.8	26.8	-92.86	269.2	1,269.1	806.4	772.1	34.31	23.503		
7,700.0	7,334.6	7,478.5	7,314.7	40.2	27.2	-87.80	311.9	1,280.0	808.0	773.3	34.72	23.275		
7,800.0	7,396.6	7,550.0	7,363.7	40.5	27.6	-85.24	362.9	1,290.3	805.4	770.2	35.20	22.881		
7,900.0	7,445.3	7,616.8	7,403.5	40.9	28.0	-84.41	415.9	1,298.7	798.7	763.2	35.43	22.539		
8,000.0	7,479.2	7,687.0	7,438.4	41.2	28.5	-85.01	476.2	1,306.3	788.2	752.4	35.86	21.979		
8,100.0	7,497.1	7,758.2	7,466.3	41.5	29.0	-86.81	541.4	1,312.4	774.5	738.0	36.44	21.255		
8,200.0	7,500.0	7,831.1	7,486.3	41.8	29.6	-88.96	611.3	1,317.0	758.5	721.3	37.23	20.372		
8,300.0	7,500.0	7,908.0	7,497.9	42.1	30.2	-89.84	687.1	1,320.0	744.9	706.5	38.33	19.432		
8,400.0	7,500.0	7,994.5	7,500.0	42.5	30.9	-90.00	773.6	1,321.2	733.9	693.8	40.10	18.299		
8,500.0	7,500.0	8,094.0	7,500.0	43.0	31.8	-90.00	873.1	1,322.1	723.4	680.6	42.87	16.874		
8,600.0	7,500.0	8,193.4	7,500.0	43.6	32.8	-90.00	972.5	1,322.9	713.0	667.2	45.74	15.588		
8,700.0	7,500.0	8,292.9	7,500.0	44.2	33.8	-90.00	1,072.0	1,323.8	702.5	653.8	48.69	14.429		
8,800.0	7,500.0	8,392.4	7,500.0	44.9	34.9	-90.00	1,171.4	1,324.7	692.1	640.4	51.70	13.385		
8,900.0	7,500.0	8,491.8	7,500.0	45.7	36.1	-90.00	1,270.9	1,325.5	681.6	626.8	54.78	12.443		
9,000.0	7,500.0	8,591.3	7,500.0	46.5	37.3	-90.00	1,370.3	1,326.4	671.2	613.3	57.90	11.592		
9,100.0	7,500.0	8,690.7	7,500.0	47.3	38.5	-90.00	1,469.8	1,327.3	660.7	599.6	61.06	10.820		
9,200.0	7,500.0	8,790.2	7,500.0	48.2	39.7	-90.00	1,569.2	1,328.1	650.3	586.0	64.26	10.119		
9,300.0	7,500.0	8,889.6	7,500.0	49.2	41.0	-90.00	1,668.7	1,329.0	639.8	572.3	67.49	9.480		
9,400.0	7,500.0	8,989.1	7,500.0	50.2	42.4	-90.00	1,768.1	1,329.9	629.3	558.6	70.74	8.897		
9,500.0	7,500.0	9,088.5	7,500.0	51.2	43.7	-90.00	1,867.6	1,330.7	618.9	544.9	74.01	8.362		
9,600.0	7,500.0	9,188.0	7,500.0	52.3	45.1	-90.00	1,967.0	1,331.6	608.4	531.1	77.31	7.870		
9,700.0	7,500.0	9,287.4	7,500.0	53.4	46.6	-90.00	2,066.5	1,332.5	598.0	517.4	80.62	7.417		
9,800.0	7,500.0	9,386.9	7,500.0	54.5	48.0	-90.00	2,165.9	1,333.3	587.5	503.6	83.95	6.999		
9,900.0	7,500.0	9,486.3	7,500.0	55.7	49.4	-90.00	2,265.4	1,334.2	577.1	489.8	87.29	6.611		
10,000.0	7,500.0	9,583.3	7,500.0	56.9	50.9	-90.00	2,362.3	1,335.0	566.7	476.3	90.36	6.272		
10,100.0	7,500.0	9,673.9	7,500.0	58.1	52.2	-90.00	2,453.0	1,334.7	557.5	464.8	92.71	6.013		
10,200.0	7,500.0	9,764.9	7,500.0	59.4	53.6	-90.00	2,543.9	1,332.9	549.8	454.8	95.06	5.784		
10,300.0	7,500.0	9,856.0	7,500.0	60.7	54.9	-90.00	2,634.9	1,329.7	543.8	446.4	97.39	5.583		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4											Offset Site Error:		0.0 ft
Survey Program: 0-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,400.0	7,500.0	9,947.3	7,500.0	62.0	56.3	-90.00	2,726.1	1,325.0	539.3	439.6	99.71	5.409	
10,500.0	7,500.0	10,038.6	7,500.0	63.4	57.7	-90.00	2,817.3	1,318.9	536.4	434.4	102.02	5.258	
10,600.0	7,500.0	10,130.1	7,500.0	64.7	59.0	-90.00	2,908.4	1,311.3	535.1	430.8	104.30	5.131	
10,630.1	7,500.0	10,157.6	7,500.0	65.1	59.4	-90.00	2,935.8	1,308.7	535.1	430.1	104.99	5.096	
10,700.0	7,500.0	10,222.8	7,500.0	66.1	60.4	-90.00	3,000.7	1,302.1	535.4	428.7	106.74	5.016	
10,800.0	7,500.0	10,322.8	7,500.0	67.5	61.9	-90.00	3,100.1	1,291.6	537.0	426.8	110.16	4.874	
10,900.0	7,500.0	10,422.8	7,500.0	68.9	63.5	-90.00	3,199.5	1,281.2	540.2	426.6	113.58	4.756	
11,000.0	7,500.0	10,522.6	7,500.0	70.4	65.0	-90.00	3,298.8	1,270.8	545.2	428.2	117.00	4.660	
11,100.0	7,500.0	10,622.4	7,500.0	71.9	66.5	-90.00	3,398.1	1,260.3	551.9	431.5	120.42	4.583	
11,200.0	7,500.0	10,722.0	7,500.0	73.4	68.1	-90.00	3,497.2	1,249.9	560.4	436.5	123.84	4.525	
11,300.0	7,500.0	10,821.5	7,500.0	74.9	69.7	-90.00	3,596.1	1,239.5	570.5	443.2	127.25	4.483	
11,400.0	7,500.0	10,921.0	7,500.0	76.5	71.2	-90.00	3,695.0	1,229.1	580.9	450.3	130.67	4.446	
11,500.0	7,500.0	11,020.4	7,500.0	78.0	72.8	-90.00	3,793.9	1,218.7	591.4	457.3	134.10	4.410	
11,600.0	7,500.0	11,119.9	7,500.0	79.6	74.4	-90.00	3,892.8	1,208.3	601.8	464.3	137.53	4.376	
11,700.0	7,500.0	11,219.3	7,500.0	81.1	76.0	-90.00	3,991.7	1,197.9	612.3	471.3	140.96	4.344	
11,800.0	7,500.0	11,318.8	7,500.0	82.7	77.6	-90.00	4,090.6	1,187.5	622.7	478.4	144.39	4.313	
11,900.0	7,500.0	11,418.2	7,500.0	84.3	79.2	-90.00	4,189.6	1,177.1	633.2	485.4	147.83	4.283	
12,000.0	7,500.0	11,517.7	7,500.0	85.9	80.8	-90.00	4,288.5	1,166.7	643.6	492.4	151.27	4.255	
12,100.0	7,500.0	11,617.1	7,500.0	87.5	82.4	-90.00	4,387.4	1,156.3	654.1	499.4	154.71	4.228	
12,200.0	7,500.0	11,716.6	7,500.0	89.1	84.0	-90.00	4,486.3	1,146.0	664.6	506.4	158.16	4.202	
12,300.0	7,500.0	11,817.2	7,500.0	90.7	85.7	-90.00	4,586.3	1,135.4	675.0	513.3	161.73	4.174	
12,400.0	7,500.0	11,930.1	7,500.0	92.3	87.6	-90.00	4,698.8	1,124.9	684.3	517.6	166.71	4.105	
12,500.0	7,500.0	12,043.5	7,500.0	93.9	89.4	-90.00	4,811.8	1,116.6	691.6	520.0	171.65	4.029	
12,600.0	7,500.0	12,157.1	7,500.0	95.5	91.3	-90.00	4,925.3	1,110.5	697.0	520.5	176.54	3.948	
12,700.0	7,500.0	12,270.9	7,500.0	97.1	93.3	-90.00	5,039.0	1,106.7	700.4	519.0	181.37	3.862	
12,800.0	7,500.0	12,384.9	7,500.0	98.8	95.2	-90.00	5,152.9	1,105.1	701.8	515.6	186.14	3.770	
12,900.0	7,500.0	12,498.8	7,500.0	100.4	97.1	-90.00	5,266.9	1,105.8	701.2	510.3	190.85	3.674	
13,000.0	7,500.0	12,612.7	7,500.0	102.0	99.1	-90.00	5,380.7	1,108.7	698.6	503.1	195.49	3.574	
13,100.0	7,500.0	12,726.4	7,500.0	103.7	101.0	-90.00	5,494.3	1,113.9	694.0	494.0	200.05	3.469	
13,200.0	7,500.0	12,836.6	7,500.0	105.3	103.0	-90.00	5,604.2	1,121.0	687.5	483.3	204.29	3.366	
13,300.0	7,500.0	12,936.3	7,500.0	107.0	104.7	-90.00	5,703.7	1,128.1	680.5	472.7	207.77	3.275	
13,400.0	7,500.0	13,036.1	7,500.0	108.6	106.4	-90.00	5,803.2	1,135.1	673.4	462.2	211.24	3.188	
13,500.0	7,500.0	13,135.8	7,500.0	110.3	108.1	-90.00	5,902.7	1,142.1	666.4	451.7	214.72	3.104	
13,600.0	7,500.0	13,235.6	7,500.0	111.9	109.9	-90.00	6,002.3	1,149.2	659.3	441.1	218.19	3.022	
13,700.0	7,500.0	13,335.3	7,500.0	113.6	111.6	-90.00	6,101.8	1,156.2	652.3	430.6	221.67	2.943	
13,800.0	7,500.0	13,435.1	7,500.0	115.3	113.3	-90.00	6,201.3	1,163.2	645.3	420.2	225.15	2.866	
13,900.0	7,500.0	13,534.9	7,500.0	117.0	115.1	-90.00	6,300.9	1,170.3	639.9	411.3	228.64	2.799	
14,000.0	7,500.0	13,634.9	7,500.0	118.7	116.8	-90.00	6,400.6	1,177.3	636.4	404.3	232.13	2.742	
14,100.0	7,500.0	13,734.8	7,500.0	120.4	118.5	-90.00	6,500.3	1,184.4	634.8	399.2	235.62	2.694	
14,133.1	7,500.0	13,767.9	7,500.0	120.9	119.1	-90.00	6,533.3	1,186.7	634.7	398.0	236.78	2.681	
14,200.0	7,500.0	13,834.8	7,500.0	122.1	120.3	-90.00	6,600.0	1,191.4	635.2	396.0	239.12	2.656	
14,300.0	7,500.0	13,934.8	7,500.0	123.8	122.0	-90.00	6,699.8	1,198.5	637.4	394.8	242.62	2.627	
14,400.0	7,500.0	14,034.7	7,500.0	125.5	123.7	-90.00	6,799.4	1,205.5	641.6	395.4	246.12	2.607	
14,500.0	7,500.0	14,134.5	7,500.0	127.3	125.5	-90.00	6,899.0	1,212.6	647.6	398.0	249.62	2.594	
14,600.0	7,500.0	14,234.2	7,500.0	129.0	127.2	-90.00	6,998.4	1,219.6	655.6	402.5	253.11	2.590 SF	
14,700.0	7,500.0	14,333.7	7,500.0	130.8	128.9	-90.00	7,097.7	1,226.6	665.5	408.9	256.60	2.593	
14,767.3	7,500.0	14,341.7	7,500.0	132.0	129.1	-90.00	7,105.6	1,227.2	675.3	421.6	253.66	2.662	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #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	-90.03	0.0	-7.6	7.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.03	0.0	-7.6	7.6	7.3	0.30	24.883		
200.0	200.0	200.0	200.0	0.3	0.3	-90.03	0.0	-7.6	7.6	6.9	0.65	11.577	CC, ES	
300.0	300.0	300.1	300.1	0.5	0.5	178.12	0.0	-7.3	8.2	7.2	1.00	8.198		
400.0	400.0	400.2	400.2	0.7	0.7	176.73	-0.3	-5.6	9.1	7.8	1.35	6.744		
500.0	499.9	500.4	500.3	0.9	0.9	174.17	-1.0	-2.2	10.1	8.4	1.70	5.910		
600.0	599.7	600.5	600.3	1.1	1.1	170.78	-1.9	3.0	11.1	9.0	2.05	5.389		
700.0	699.4	700.7	700.3	1.3	1.3	166.83	-3.1	9.9	12.2	9.8	2.41	5.051		
800.0	798.9	800.9	800.1	1.5	1.5	162.55	-4.6	18.5	13.4	10.6	2.78	4.827		
900.0	898.3	901.1	899.7	1.8	1.7	158.12	-6.4	28.8	14.8	11.7	3.17	4.675		
1,000.0	997.4	1,001.3	999.2	2.0	2.0	153.72	-8.5	40.9	16.4	12.8	3.60	4.568		
1,100.0	1,096.3	1,101.5	1,098.4	2.3	2.3	149.46	-11.0	54.6	18.3	14.2	4.07	4.487		
1,200.0	1,194.9	1,201.8	1,197.4	2.7	2.6	145.43	-13.7	70.1	20.3	15.7	4.60	4.418		
1,300.0	1,293.3	1,302.0	1,296.1	3.0	2.9	141.67	-16.7	87.3	22.6	17.4	5.19	4.358		
1,400.0	1,391.2	1,402.2	1,394.5	3.4	3.3	138.21	-20.1	106.2	25.1	19.3	5.85	4.301		
1,500.0	1,488.9	1,502.5	1,492.5	3.8	3.7	135.05	-23.7	126.7	28.0	21.4	6.58	4.249		
1,600.0	1,586.1	1,602.7	1,590.2	4.3	4.1	132.18	-27.6	149.0	31.0	23.6	7.38	4.201		
1,700.0	1,682.9	1,703.0	1,687.4	4.7	4.5	129.58	-31.8	172.9	34.3	26.1	8.26	4.157		
1,800.0	1,779.3	1,803.3	1,784.4	5.2	5.0	127.76	-36.1	198.3	37.8	28.7	9.16	4.128		
1,900.0	1,875.2	1,903.8	1,881.5	5.8	5.5	129.17	-38.8	224.1	41.0	31.1	9.89	4.148		
2,000.0	1,970.5	2,004.1	1,978.4	6.3	6.0	133.47	-39.8	250.0	44.1	33.8	10.36	4.258		
2,100.0	2,065.4	2,103.2	2,074.5	6.9	6.4	139.77	-40.2	274.4	49.1	38.6	10.51	4.677		
2,200.0	2,160.2	2,202.5	2,171.0	7.5	6.8	145.89	-40.6	297.5	56.1	45.6	10.50	5.342		
2,300.0	2,255.0	2,302.1	2,267.9	8.1	7.3	150.72	-41.0	320.4	63.8	53.2	10.52	6.059		
2,400.0	2,349.8	2,401.7	2,364.8	8.7	7.7	154.50	-41.5	343.3	71.8	61.2	10.59	6.777		
2,500.0	2,444.6	2,501.2	2,461.7	9.3	8.2	157.51	-41.9	366.2	80.0	69.3	10.70	7.479		
2,600.0	2,539.4	2,600.8	2,558.6	9.9	8.6	159.95	-42.3	389.1	88.4	77.6	10.84	8.155		
2,700.0	2,634.2	2,700.4	2,655.6	10.5	9.0	161.97	-42.7	412.1	97.0	85.9	11.02	8.801		
2,800.0	2,729.0	2,800.0	2,752.5	11.1	9.5	163.66	-43.1	435.0	105.6	94.4	11.22	9.414		
2,900.0	2,823.8	2,899.6	2,849.4	11.7	9.9	165.09	-43.5	457.9	114.3	102.9	11.44	9.994		
3,000.0	2,918.6	2,999.1	2,946.3	12.3	10.4	166.32	-43.9	480.8	123.1	111.5	11.68	10.543		
3,100.0	3,013.4	3,098.7	3,043.2	12.9	10.8	167.38	-44.4	503.8	132.0	120.0	11.93	11.060		
3,200.0	3,108.2	3,198.3	3,140.1	13.5	11.2	168.32	-44.8	526.7	140.9	128.7	12.20	11.548		
3,300.0	3,203.0	3,297.9	3,237.0	14.1	11.7	169.14	-45.2	549.6	149.8	137.3	12.47	12.009		
3,400.0	3,297.8	3,397.5	3,333.9	14.7	12.1	169.86	-45.6	572.5	158.7	146.0	12.75	12.443		
3,500.0	3,392.6	3,497.0	3,430.8	15.3	12.6	170.51	-46.0	595.5	167.7	154.6	13.04	12.854		
3,600.0	3,487.4	3,596.6	3,527.7	15.9	13.0	171.10	-46.4	618.4	176.7	163.3	13.34	13.242		
3,700.0	3,582.2	3,696.2	3,624.6	16.5	13.5	171.62	-46.8	641.3	185.6	172.0	13.64	13.610		
3,800.0	3,677.0	3,795.8	3,721.5	17.1	13.9	172.10	-47.3	664.2	194.7	180.7	13.95	13.958		
3,900.0	3,771.8	3,895.4	3,818.4	17.7	14.3	172.54	-47.7	687.1	203.7	189.4	14.26	14.288		
4,000.0	3,866.6	3,994.9	3,915.3	18.3	14.8	172.94	-48.1	710.1	212.7	198.1	14.57	14.601		
4,100.0	3,961.4	4,094.5	4,012.2	18.9	15.2	173.31	-48.5	733.0	221.8	206.9	14.89	14.898		
4,200.0	4,056.2	4,194.1	4,109.1	19.5	15.7	173.64	-48.9	755.9	230.8	215.6	15.20	15.181		
4,300.0	4,151.0	4,293.7	4,206.0	20.1	16.1	173.96	-49.3	778.8	239.9	224.3	15.53	15.451		
4,400.0	4,245.8	4,393.3	4,302.9	20.7	16.6	174.25	-49.7	801.8	248.9	233.1	15.85	15.707		
4,500.0	4,340.6	4,492.8	4,399.8	21.3	17.0	174.52	-50.2	824.7	258.0	241.8	16.17	15.952		
4,600.0	4,435.4	4,592.4	4,496.8	21.9	17.4	174.77	-50.6	847.6	267.1	250.6	16.50	16.186		
4,700.0	4,530.3	4,692.0	4,593.7	22.5	17.9	175.00	-51.0	870.5	276.2	259.3	16.83	16.409		
4,800.0	4,625.1	4,791.6	4,690.6	23.1	18.3	175.22	-51.4	893.5	285.3	268.1	17.16	16.623		
4,900.0	4,719.9	4,891.2	4,787.5	23.7	18.8	175.43	-51.8	916.4	294.3	276.9	17.49	16.827		
5,000.0	4,814.7	4,990.7	4,884.4	24.4	19.2	175.62	-52.2	939.3	303.4	285.6	17.83	17.023		
5,100.0	4,909.5	5,090.3	4,981.3	25.0	19.7	175.80	-52.6	962.2	312.5	294.4	18.16	17.211		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,004.3	5,189.9	5,078.2	25.6	20.1	175.98	-53.1	985.1	321.6	303.1	18.49	17.391	
5,300.0	5,099.1	5,289.5	5,175.1	26.2	20.6	176.14	-53.5	1,008.1	330.7	311.9	18.83	17.564	
5,400.0	5,193.9	5,389.1	5,272.0	26.8	21.0	176.29	-53.9	1,031.0	339.8	320.7	19.17	17.730	
5,500.0	5,288.7	5,488.6	5,368.9	27.4	21.5	176.44	-54.3	1,053.9	349.0	329.4	19.51	17.890	
5,600.0	5,383.5	5,588.2	5,465.8	28.0	21.9	176.58	-54.7	1,076.8	358.1	338.2	19.84	18.044	
5,700.0	5,478.3	5,687.8	5,562.7	28.6	22.3	176.71	-55.1	1,099.8	367.2	347.0	20.18	18.192	
5,800.0	5,573.1	5,787.4	5,659.6	29.2	22.8	176.83	-55.5	1,122.7	376.3	355.8	20.52	18.335	
5,900.0	5,667.9	5,887.0	5,756.5	29.8	23.2	176.95	-56.0	1,145.6	385.4	364.5	20.86	18.473	
6,000.0	5,762.7	5,986.6	5,853.4	30.4	23.7	177.07	-56.4	1,168.5	394.5	373.3	21.20	18.606	
6,100.0	5,857.5	6,086.1	5,950.3	31.0	24.1	177.18	-56.8	1,191.5	403.6	382.1	21.55	18.734	
6,200.0	5,952.3	6,185.7	6,047.2	31.6	24.6	177.28	-57.2	1,214.4	412.8	390.9	21.89	18.858	
6,300.0	6,047.1	6,285.3	6,144.1	32.2	25.0	177.38	-57.6	1,237.3	421.9	399.6	22.23	18.978	
6,400.0	6,141.9	6,384.9	6,241.1	32.9	25.5	177.47	-58.0	1,260.2	431.0	408.4	22.57	19.094	
6,500.0	6,236.7	6,484.5	6,338.0	33.5	25.9	177.57	-58.5	1,283.1	440.1	417.2	22.92	19.206	
6,600.0	6,331.5	6,584.0	6,434.9	34.1	26.3	177.65	-58.9	1,306.1	449.2	426.0	23.26	19.314	
6,700.0	6,426.3	6,683.6	6,531.8	34.7	26.8	177.74	-59.3	1,329.0	458.4	434.8	23.60	19.419	
6,800.0	6,521.1	6,783.2	6,628.7	35.3	27.2	177.82	-59.7	1,351.9	467.5	443.5	23.95	19.521	
6,900.0	6,615.9	6,882.8	6,725.6	35.9	27.7	177.90	-60.1	1,374.8	476.6	452.3	24.29	19.620	
7,000.0	6,710.7	6,982.4	6,822.5	36.5	28.1	177.97	-60.5	1,397.8	485.8	461.1	24.64	19.715	
7,100.0	6,805.5	7,081.9	6,919.4	37.1	28.6	178.04	-60.9	1,420.7	494.9	469.9	24.98	19.808	
7,200.0	6,900.3	7,181.5	7,016.3	37.7	29.0	178.11	-61.4	1,443.6	504.0	478.7	25.33	19.898	
7,300.0	6,995.1	7,281.0	7,113.1	38.3	29.5	-162.70	-61.8	1,466.5	512.8	487.1	25.71	19.950	
7,400.0	7,088.7	7,379.9	7,209.3	38.9	29.9	-139.84	-61.4	1,489.3	520.5	494.2	26.29	19.797	
7,500.0	7,178.2	7,482.8	7,308.4	39.3	30.3	-127.00	-47.1	1,512.6	527.2	500.2	26.94	19.567	
7,600.0	7,261.0	7,590.4	7,407.6	39.8	30.8	-120.38	-13.0	1,535.9	532.6	505.3	27.39	19.450	
7,700.0	7,334.6	7,702.9	7,502.8	40.2	31.2	-117.14	42.3	1,558.1	536.5	509.0	27.53	19.489	
7,800.0	7,396.6	7,820.2	7,588.8	40.5	31.7	-115.79	119.1	1,578.1	538.4	511.0	27.45	19.614	
7,900.0	7,445.3	7,941.8	7,660.1	40.9	32.2	-115.54	216.0	1,594.4	538.0	510.4	27.59	19.504	
8,000.0	7,479.2	8,066.8	7,711.1	41.2	32.8	-115.94	329.3	1,605.9	535.0	506.4	28.63	18.690	
8,100.0	7,497.1	8,194.0	7,737.1	41.5	33.4	-116.73	453.4	1,611.4	529.2	498.1	31.10	17.015	
8,200.0	7,500.0	8,306.4	7,740.0	41.8	34.0	-117.51	565.7	1,611.5	521.3	487.5	33.74	15.451	
8,300.0	7,500.0	8,406.0	7,740.0	42.1	34.6	-117.98	665.3	1,611.0	513.2	477.5	35.70	14.377	
8,400.0	7,500.0	8,505.6	7,740.0	42.5	35.3	-118.46	764.9	1,610.5	505.2	467.5	37.78	13.374	
8,500.0	7,500.0	8,605.2	7,740.0	43.0	36.1	-118.96	864.5	1,609.9	497.3	457.3	39.95	12.448	
8,600.0	7,500.0	8,704.7	7,740.0	43.6	36.9	-119.47	964.1	1,609.4	489.4	447.2	42.19	11.599	
8,700.0	7,500.0	8,804.3	7,740.0	44.2	37.8	-120.00	1,063.7	1,608.9	481.5	437.0	44.48	10.825	
8,800.0	7,500.0	8,903.9	7,740.0	44.9	38.8	-120.55	1,163.3	1,608.4	473.6	426.8	46.80	10.120	
8,900.0	7,500.0	9,003.5	7,740.0	45.7	39.8	-121.11	1,262.8	1,607.9	465.9	416.7	49.15	9.479	
9,000.0	7,500.0	9,103.1	7,740.0	46.5	40.8	-121.70	1,362.4	1,607.3	458.1	406.6	51.50	8.896	
9,100.0	7,500.0	9,202.7	7,740.0	47.3	41.9	-122.30	1,462.0	1,606.8	450.4	396.6	53.84	8.366	
9,200.0	7,500.0	9,302.3	7,740.0	48.2	43.1	-122.93	1,561.6	1,606.3	442.8	386.6	56.17	7.883	
9,300.0	7,500.0	9,401.9	7,740.0	49.2	44.3	-123.58	1,661.2	1,605.8	435.2	376.7	58.48	7.442	
9,400.0	7,500.0	9,501.5	7,740.0	50.2	45.5	-124.25	1,760.8	1,605.2	427.7	366.9	60.75	7.040	
9,500.0	7,500.0	9,601.0	7,740.0	51.2	46.7	-124.94	1,860.4	1,604.7	420.2	357.2	62.98	6.672	
9,600.0	7,500.0	9,700.6	7,740.0	52.3	48.0	-125.66	1,960.0	1,604.2	412.8	347.6	65.16	6.334	
9,700.0	7,500.0	9,800.2	7,740.0	53.4	49.3	-126.41	2,059.5	1,603.7	405.4	338.1	67.29	6.025	
9,800.0	7,500.0	9,899.8	7,740.0	54.5	50.7	-127.18	2,159.1	1,603.2	398.2	328.8	69.35	5.741	
9,900.0	7,500.0	9,999.4	7,740.0	55.7	52.0	-127.98	2,258.7	1,602.6	391.0	319.6	71.34	5.480	
10,000.0	7,500.0	10,099.0	7,740.0	56.9	53.4	-128.81	2,358.3	1,602.1	383.9	310.6	73.25	5.240	
10,100.0	7,500.0	10,198.6	7,740.0	58.1	54.8	-129.68	2,457.9	1,601.6	376.8	301.8	75.07	5.020	
10,200.0	7,500.0	10,298.2	7,740.0	59.4	56.3	-130.57	2,557.5	1,601.1	369.9	293.1	76.79	4.817	
10,300.0	7,500.0	10,397.8	7,740.0	60.7	57.7	-131.50	2,657.1	1,600.6	363.0	284.6	78.40	4.631	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #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	7,500.0	10,497.3	7,740.0	62.0	59.2	-132.46	2,756.7	1,600.0	356.3	276.4	79.89	4.460		
10,500.0	7,500.0	10,596.9	7,740.0	63.4	60.6	-133.46	2,856.2	1,599.5	349.6	268.4	81.25	4.303		
10,600.0	7,500.0	10,696.5	7,740.0	64.7	62.1	-134.50	2,955.8	1,599.0	343.1	260.6	82.48	4.160		
10,700.0	7,500.0	10,796.1	7,740.0	66.1	63.6	-135.58	3,055.4	1,598.5	336.7	253.1	83.55	4.030		
10,800.0	7,500.0	10,895.7	7,740.0	67.5	65.2	-136.59	3,155.1	1,597.9	330.8	246.3	84.57	3.912		
10,900.0	7,500.0	10,995.5	7,740.0	68.9	66.7	-137.41	3,254.8	1,597.4	326.3	240.5	85.74	3.805		
11,000.0	7,500.0	11,095.4	7,740.0	70.4	68.2	-138.03	3,354.7	1,596.9	322.9	235.8	87.12	3.707		
11,100.0	7,500.0	11,195.3	7,740.0	71.9	69.8	-138.44	3,454.7	1,596.4	320.8	232.0	88.77	3.614		
11,200.0	7,500.0	11,295.3	7,740.0	73.4	71.4	-138.63	3,554.6	1,595.9	319.8	229.1	90.73	3.525		
11,253.3	7,500.0	11,348.6	7,740.0	74.2	72.2	-138.65	3,607.9	1,595.6	319.7	227.8	91.90	3.479		
11,300.0	7,500.0	11,395.3	7,740.0	74.9	72.9	-138.61	3,654.6	1,595.3	319.9	226.9	93.02	3.439		
11,400.0	7,500.0	11,495.3	7,740.0	76.5	74.5	-138.54	3,754.6	1,594.8	320.3	224.9	95.40	3.357		
11,500.0	7,500.0	11,595.3	7,740.0	78.0	76.1	-138.47	3,854.6	1,594.3	320.6	222.8	97.78	3.279		
11,600.0	7,500.0	11,695.3	7,740.0	79.6	77.7	-138.40	3,954.6	1,593.8	321.0	220.8	100.18	3.204		
11,700.0	7,500.0	11,795.3	7,740.0	81.1	79.3	-138.33	4,054.6	1,593.2	321.3	218.7	102.58	3.132		
11,800.0	7,500.0	11,895.3	7,740.0	82.7	80.9	-138.26	4,154.6	1,592.7	321.7	216.7	105.00	3.063		
11,900.0	7,500.0	11,995.3	7,740.0	84.3	82.5	-138.19	4,254.6	1,592.2	322.0	214.6	107.42	2.998		
12,000.0	7,500.0	12,095.3	7,740.0	85.9	84.2	-138.12	4,354.6	1,591.7	322.4	212.5	109.85	2.935		
12,100.0	7,500.0	12,195.3	7,740.0	87.5	85.8	-138.05	4,454.6	1,591.1	322.7	210.4	112.29	2.874		
12,200.0	7,500.0	12,295.3	7,740.0	89.1	87.4	-137.98	4,554.6	1,590.6	323.1	208.3	114.73	2.816		
12,300.0	7,500.0	12,395.3	7,740.0	90.7	89.1	-137.91	4,654.6	1,590.1	323.4	206.2	117.19	2.760		
12,400.0	7,500.0	12,495.3	7,740.0	92.3	90.7	-137.84	4,754.6	1,589.6	323.8	204.1	119.65	2.706		
12,500.0	7,500.0	12,595.3	7,740.0	93.9	92.3	-137.77	4,854.6	1,589.0	324.1	202.0	122.12	2.654		
12,600.0	7,500.0	12,695.3	7,740.0	95.5	94.0	-137.71	4,954.6	1,588.5	324.5	199.9	124.59	2.604		
12,700.0	7,500.0	12,795.3	7,740.0	97.1	95.6	-137.64	5,054.6	1,588.0	324.8	197.7	127.08	2.556		
12,800.0	7,500.0	12,895.3	7,740.0	98.8	97.3	-137.57	5,154.6	1,587.5	325.2	195.6	129.57	2.510		
12,900.0	7,500.0	12,995.3	7,740.0	100.4	99.0	-137.50	5,254.6	1,587.0	325.5	193.5	132.07	2.465		
13,000.0	7,500.0	13,095.3	7,740.0	102.0	100.6	-137.43	5,354.6	1,586.4	325.9	191.3	134.57	2.422		
13,100.0	7,500.0	13,195.3	7,740.0	103.7	102.3	-137.37	5,454.6	1,585.9	326.2	189.1	137.08	2.380		
13,200.0	7,500.0	13,295.3	7,740.0	105.3	104.0	-137.30	5,554.6	1,585.4	326.6	187.0	139.60	2.339		
13,300.0	7,500.0	13,395.3	7,740.0	107.0	105.6	-137.23	5,654.6	1,584.9	326.9	184.8	142.13	2.300		
13,400.0	7,500.0	13,495.3	7,740.0	108.6	107.3	-137.16	5,754.6	1,584.3	327.3	182.6	144.66	2.263		
13,500.0	7,500.0	13,595.3	7,740.0	110.3	109.0	-137.10	5,854.6	1,583.8	327.7	180.5	147.20	2.226		
13,600.0	7,500.0	13,695.3	7,740.0	111.9	110.7	-137.03	5,954.6	1,583.3	328.0	178.3	149.74	2.191		
13,700.0	7,500.0	13,795.3	7,740.0	113.6	112.3	-136.96	6,054.6	1,582.8	328.4	176.1	152.29	2.156		
13,800.0	7,500.0	13,895.3	7,740.0	115.3	114.0	-136.88	6,154.6	1,582.2	328.8	173.9	154.89	2.123		
13,900.0	7,500.0	13,995.3	7,740.0	117.0	115.7	-136.82	6,254.5	1,581.7	330.3	172.3	158.01	2.090		
14,000.0	7,500.0	14,095.2	7,740.0	118.7	117.4	-136.13	6,354.5	1,581.2	333.1	171.3	161.78	2.059		
14,100.0	7,500.0	14,195.0	7,740.0	120.4	119.1	-135.43	6,454.3	1,580.7	337.3	171.1	166.19	2.030		
14,200.0	7,500.0	14,294.7	7,740.0	122.1	120.8	-134.54	6,554.0	1,580.1	342.9	171.7	171.20	2.003		
14,300.0	7,500.0	14,394.2	7,740.0	123.8	122.5	-133.47	6,653.5	1,579.6	350.0	173.2	176.74	1.980		
14,400.0	7,500.0	14,493.5	7,740.0	125.5	124.1	-132.25	6,752.8	1,579.1	358.6	175.8	182.73	1.962		
14,500.0	7,500.0	14,592.6	7,740.0	127.3	125.8	-130.90	6,851.8	1,578.6	368.8	179.7	189.09	1.950		
14,600.0	7,500.0	14,691.4	7,740.0	129.0	127.5	-129.47	6,950.6	1,578.1	380.7	185.0	195.72	1.945 SF		
14,700.0	7,500.0	14,789.9	7,740.0	130.8	129.2	-127.96	7,049.1	1,577.6	394.3	191.8	202.53	1.947		
14,767.3	7,500.0	14,852.2	7,740.0	132.0	130.2	-126.95	7,111.5	1,577.2	404.2	197.7	206.43	1.958		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #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	-89.60	0.7	-105.0	105.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.60	0.7	-105.0	105.0	104.7	0.30	345.609		
200.0	200.0	200.0	200.0	0.3	0.3	-89.60	0.7	-105.0	105.0	104.3	0.65	160.792	CC, ES	
300.0	300.0	298.8	298.8	0.5	0.5	178.98	1.4	-105.5	106.4	105.4	1.00	106.349		
400.0	400.0	397.5	397.5	0.7	0.7	-179.98	3.4	-107.1	110.7	109.3	1.35	81.990		
500.0	499.9	495.9	495.8	0.9	0.9	-178.41	6.7	-109.8	117.9	116.2	1.70	69.243		
600.0	599.7	593.8	593.5	1.1	1.1	-176.52	11.2	-113.5	128.1	126.0	2.06	62.218		
700.0	699.4	691.2	690.6	1.3	1.3	-174.49	17.1	-118.2	141.4	139.0	2.42	58.440		
800.0	798.9	788.4	787.4	1.5	1.5	-172.49	24.1	-123.9	157.7	154.9	2.78	56.671		
900.0	898.3	886.6	885.1	1.8	1.7	-170.82	31.6	-129.9	176.2	173.1	3.15	55.921		
1,000.0	997.4	984.4	982.5	2.0	1.9	-169.56	39.0	-135.9	196.5	193.0	3.52	55.823	SF	
1,100.0	1,096.3	1,081.9	1,079.5	2.3	2.2	-168.61	46.5	-141.9	218.6	214.7	3.89	56.169		
1,200.0	1,194.9	1,179.0	1,176.1	2.7	2.4	-167.90	53.8	-147.9	242.3	238.1	4.26	56.832		
1,300.0	1,293.3	1,275.7	1,272.3	3.0	2.6	-167.40	61.2	-153.8	267.8	263.1	4.64	57.726		
1,400.0	1,391.2	1,371.9	1,368.1	3.4	2.9	-167.04	68.5	-159.8	294.9	289.8	5.01	58.795		
1,500.0	1,488.9	1,467.7	1,463.4	3.8	3.1	-166.80	75.8	-165.6	323.6	318.2	5.39	59.999		
1,600.0	1,586.1	1,563.0	1,558.3	4.3	3.3	-166.65	83.0	-171.5	353.9	348.2	5.77	61.309		
1,700.0	1,682.9	1,657.8	1,652.6	4.7	3.6	-166.57	90.2	-177.3	385.9	379.7	6.15	62.705		
1,800.0	1,779.3	1,752.0	1,746.3	5.2	3.8	-166.54	97.4	-183.1	419.5	412.9	6.54	64.172		
1,900.0	1,875.2	1,845.6	1,839.5	5.8	4.0	-166.56	104.5	-188.9	454.6	447.7	6.92	65.697		
2,000.0	1,970.5	1,938.6	1,932.0	6.3	4.2	-166.61	111.6	-194.6	491.4	484.1	7.30	67.274		
2,100.0	2,065.4	2,031.0	2,024.0	6.9	4.5	-166.72	118.6	-200.2	529.5	521.8	7.69	68.881		
2,200.0	2,160.2	2,123.3	2,115.9	7.5	4.7	-166.87	125.6	-205.9	567.9	559.9	8.07	70.366		
2,300.0	2,255.0	2,215.6	2,207.8	8.1	4.9	-166.99	132.6	-211.6	606.4	597.9	8.46	71.715		
2,400.0	2,349.8	2,307.9	2,299.6	8.7	5.1	-167.11	139.6	-217.3	644.8	635.9	8.84	72.945		
2,500.0	2,444.6	2,400.3	2,391.5	9.3	5.4	-167.21	146.7	-222.9	683.2	674.0	9.22	74.071		
2,600.0	2,539.4	2,492.6	2,483.4	9.9	5.6	-167.30	153.7	-228.6	721.6	712.0	9.61	75.105		
2,700.0	2,634.2	2,584.9	2,575.3	10.5	5.8	-167.38	160.7	-234.3	760.1	750.1	9.99	76.060		
2,800.0	2,729.0	2,677.2	2,667.1	11.1	6.0	-167.45	167.7	-240.0	798.5	788.1	10.38	76.942		
2,900.0	2,823.8	2,769.5	2,759.0	11.7	6.3	-167.52	174.7	-245.6	836.9	826.2	10.76	77.761		
3,000.0	2,918.6	2,861.8	2,850.9	12.3	6.5	-167.58	181.7	-251.3	875.3	864.2	11.15	78.523		
3,100.0	3,013.4	2,954.2	2,942.8	12.9	6.7	-167.63	188.8	-257.0	913.8	902.2	11.53	79.233		
3,200.0	3,108.2	3,046.5	3,034.6	13.5	6.9	-167.68	195.8	-262.6	952.2	940.3	11.92	79.897		
3,300.0	3,203.0	3,138.8	3,126.5	14.1	7.2	-167.73	202.8	-268.3	990.6	978.3	12.30	80.519		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #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	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		
0.0	0.0	0.0	0.0	0.0	0.0	-89.57	0.7	-97.4	97.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.57	0.7	-97.4	97.4	97.1	0.30	320.727		
200.0	200.0	200.0	200.0	0.3	0.3	-89.57	0.7	-97.4	97.4	96.7	0.65	149.215 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.66	0.7	-97.4	98.3	97.3	1.00	98.095		
400.0	400.0	398.8	398.8	0.7	0.7	179.06	1.4	-97.9	101.5	100.1	1.35	75.198		
500.0	499.9	497.4	497.4	0.9	0.9	-179.87	3.3	-99.6	107.5	105.8	1.70	63.334		
600.0	599.7	595.7	595.5	1.1	1.0	-178.32	6.6	-102.3	116.5	114.5	2.05	56.886		
700.0	699.4	693.4	693.1	1.3	1.2	-176.50	11.1	-106.1	128.6	126.2	2.40	53.511		
800.0	798.9	792.1	791.6	1.5	1.4	-174.76	16.3	-110.5	143.1	140.4	2.76	51.842		
900.0	898.3	890.7	889.9	1.8	1.6	-173.41	21.6	-114.9	159.5	156.4	3.12	51.124		
1,000.0	997.4	989.0	988.0	2.0	1.8	-172.37	26.9	-119.3	177.6	174.2	3.48	51.054 SF		
1,100.0	1,096.3	1,087.0	1,085.7	2.3	2.0	-171.59	32.1	-123.7	197.5	193.7	3.84	51.440		
1,200.0	1,194.9	1,184.6	1,183.1	2.7	2.2	-171.02	37.3	-128.1	219.1	214.9	4.20	52.158		
1,300.0	1,293.3	1,284.0	1,282.2	3.0	2.4	-170.48	43.0	-132.1	242.0	237.5	4.57	52.909		
1,400.0	1,391.2	1,383.7	1,381.6	3.4	2.7	-169.78	50.0	-134.9	265.7	260.7	4.96	53.565		
1,500.0	1,488.9	1,482.5	1,480.1	3.8	2.9	-168.99	57.9	-136.4	290.1	284.8	5.35	54.200		
1,600.0	1,586.1	1,579.0	1,576.3	4.3	3.1	-168.32	66.0	-137.6	316.0	310.3	5.75	55.005		
1,700.0	1,682.9	1,675.1	1,672.0	4.7	3.3	-167.80	74.0	-138.8	343.6	337.4	6.14	55.947		
1,800.0	1,779.3	1,770.7	1,767.3	5.2	3.5	-167.40	81.9	-140.0	372.8	366.2	6.54	56.999		
1,900.0	1,875.2	1,865.8	1,862.1	5.8	3.7	-167.10	89.9	-141.2	403.6	396.7	6.94	58.142		
2,000.0	1,970.5	1,960.4	1,956.3	6.3	3.9	-166.89	97.8	-142.4	436.1	428.8	7.35	59.361		
2,100.0	2,065.4	2,054.5	2,050.1	6.9	4.1	-166.77	105.6	-143.6	470.0	462.3	7.75	60.631		
2,200.0	2,160.2	2,148.5	2,143.7	7.5	4.3	-166.71	113.4	-144.7	504.2	496.0	8.16	61.795		
2,300.0	2,255.0	2,242.4	2,237.4	8.1	4.5	-166.67	121.3	-145.9	538.3	529.8	8.57	62.837		
2,400.0	2,349.8	2,336.4	2,331.0	8.7	4.8	-166.62	129.1	-147.1	572.5	563.5	8.98	63.775		
2,500.0	2,444.6	2,430.4	2,424.7	9.3	5.0	-166.58	136.9	-148.2	606.6	597.3	9.39	64.624		
2,600.0	2,539.4	2,524.4	2,518.3	9.9	5.2	-166.55	144.8	-149.4	640.8	631.0	9.80	65.394		
2,700.0	2,634.2	2,618.4	2,612.0	10.5	5.4	-166.52	152.6	-150.6	675.0	664.8	10.21	66.097		
2,800.0	2,729.0	2,712.4	2,705.6	11.1	5.6	-166.49	160.5	-151.8	709.1	698.5	10.63	66.740		
2,900.0	2,823.8	2,806.3	2,799.3	11.7	5.8	-166.47	168.3	-152.9	743.3	732.2	11.04	67.330		
3,000.0	2,918.6	2,900.3	2,892.9	12.3	6.0	-166.44	176.1	-154.1	777.4	766.0	11.45	67.875		
3,100.0	3,013.4	2,994.3	2,986.6	12.9	6.2	-166.42	184.0	-155.3	811.6	799.7	11.87	68.378		
3,200.0	3,108.2	3,088.3	3,080.2	13.5	6.4	-166.40	191.8	-156.5	845.8	833.5	12.29	68.844		
3,300.0	3,203.0	3,182.3	3,173.9	14.1	6.7	-166.39	199.6	-157.6	879.9	867.2	12.70	69.277		
3,400.0	3,297.8	3,276.3	3,267.5	14.7	6.9	-166.37	207.5	-158.8	914.1	901.0	13.12	69.680		
3,500.0	3,392.6	3,370.2	3,361.2	15.3	7.1	-166.35	215.3	-160.0	948.3	934.7	13.54	70.057		
3,600.0	3,487.4	3,464.2	3,454.8	15.9	7.3	-166.34	223.1	-161.2	982.4	968.5	13.95	70.409		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #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			
0.0	0.0	0.0	0.0	0.0	0.0	-89.54	0.7	-89.8	89.8						
100.0	100.0	100.0	100.0	0.2	0.2	-89.54	0.7	-89.8	89.8	89.5	0.30	295.844			
200.0	200.0	200.0	200.0	0.3	0.3	-89.54	0.7	-89.8	89.8	89.2	0.65	137.639	CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.70	0.7	-89.8	90.7	89.7	1.00	90.552			
400.0	400.0	400.0	400.0	0.7	0.7	178.74	0.7	-89.8	93.3	92.0	1.35	69.094			
500.0	499.9	500.6	500.6	0.9	0.9	179.26	1.5	-89.4	97.3	95.6	1.70	57.195			
600.0	599.7	601.2	601.1	1.1	1.0	-179.35	3.9	-88.3	102.3	100.3	2.05	49.803			
700.0	699.4	701.6	701.5	1.3	1.2	-177.27	7.8	-86.3	108.5	106.1	2.41	44.943			
800.0	798.9	801.9	801.6	1.5	1.4	-174.66	13.4	-83.6	115.9	113.1	2.78	41.650			
900.0	898.3	902.0	901.3	1.8	1.6	-171.70	20.4	-80.1	124.7	121.6	3.17	39.392			
1,000.0	997.4	1,001.2	1,000.2	2.0	1.8	-168.94	28.2	-76.3	135.4	131.8	3.56	38.027			
1,100.0	1,096.3	1,100.3	1,098.9	2.3	2.0	-166.73	35.9	-72.4	147.9	144.0	3.96	37.341			
1,200.0	1,194.9	1,199.1	1,197.3	2.7	2.3	-165.02	43.6	-68.6	162.4	158.0	4.37	37.136	SF		
1,300.0	1,293.3	1,297.7	1,295.6	3.0	2.5	-163.73	51.3	-64.8	178.6	173.8	4.79	37.282			
1,400.0	1,391.2	1,396.1	1,393.5	3.4	2.7	-162.80	59.0	-61.0	196.5	191.3	5.21	37.689			
1,500.0	1,488.9	1,494.1	1,491.2	3.8	2.9	-162.14	66.7	-57.2	216.1	210.4	5.64	38.297			
1,600.0	1,586.1	1,591.8	1,588.5	4.3	3.1	-161.72	74.3	-53.4	237.3	231.2	6.07	39.062			
1,700.0	1,682.9	1,689.2	1,685.5	4.7	3.4	-161.47	81.9	-49.6	260.1	253.6	6.51	39.955			
1,800.0	1,779.3	1,786.1	1,782.1	5.2	3.6	-161.36	89.5	-45.9	284.6	277.6	6.95	40.952			
1,900.0	1,875.2	1,882.7	1,878.3	5.8	3.8	-161.36	97.0	-42.2	310.6	303.2	7.39	42.037			
2,000.0	1,970.5	1,978.8	1,974.0	6.3	4.0	-161.43	104.5	-38.5	338.3	330.4	7.83	43.198			
2,100.0	2,065.4	2,074.4	2,069.3	6.9	4.2	-161.60	112.0	-34.8	367.3	359.1	8.27	44.413			
2,200.0	2,160.2	2,170.0	2,164.6	7.5	4.5	-161.80	119.4	-31.1	396.7	388.0	8.71	45.533			
2,300.0	2,255.0	2,265.6	2,259.8	8.1	4.7	-161.98	126.9	-27.4	426.0	416.9	9.15	46.542			
2,400.0	2,349.8	2,361.2	2,355.0	8.7	4.9	-162.13	134.4	-23.7	455.3	445.8	9.60	47.455			
2,500.0	2,444.6	2,456.8	2,450.3	9.3	5.1	-162.26	141.8	-20.0	484.7	474.6	10.04	48.286			
2,600.0	2,539.4	2,552.4	2,545.5	9.9	5.3	-162.38	149.3	-16.3	514.0	503.5	10.48	49.044			
2,700.0	2,634.2	2,648.0	2,640.7	10.5	5.6	-162.49	156.8	-12.6	543.4	532.4	10.92	49.739			
2,800.0	2,729.0	2,743.6	2,735.9	11.1	5.8	-162.58	164.2	-8.9	572.7	561.3	11.37	50.378			
2,900.0	2,823.8	2,839.2	2,831.2	11.7	6.0	-162.67	171.7	-5.2	602.1	590.2	11.81	50.968			
3,000.0	2,918.6	2,934.8	2,926.4	12.3	6.2	-162.75	179.2	-1.5	631.4	619.2	12.26	51.514			
3,100.0	3,013.4	3,030.4	3,021.6	12.9	6.4	-162.82	186.6	2.2	660.8	648.1	12.70	52.021			
3,200.0	3,108.2	3,126.0	3,116.9	13.5	6.7	-162.88	194.1	5.9	690.1	677.0	13.15	52.493			
3,300.0	3,203.0	3,221.6	3,212.1	14.1	6.9	-162.94	201.6	9.6	719.5	705.9	13.59	52.933			
3,400.0	3,297.8	3,317.2	3,307.3	14.7	7.1	-163.00	209.0	13.3	748.8	734.8	14.04	53.345			
3,500.0	3,392.6	3,412.7	3,402.6	15.3	7.3	-163.05	216.5	17.0	778.2	763.7	14.48	53.730			
3,600.0	3,487.4	3,508.3	3,497.8	15.9	7.5	-163.09	224.0	20.7	807.5	792.6	14.93	54.092			
3,700.0	3,582.2	3,603.9	3,593.0	16.5	7.8	-163.14	231.4	24.4	836.9	821.5	15.37	54.433			
3,800.0	3,677.0	3,699.5	3,688.2	17.1	8.0	-163.18	238.9	28.1	866.2	850.4	15.82	54.754			
3,900.0	3,771.8	3,795.1	3,783.5	17.7	8.2	-163.22	246.3	31.8	895.6	879.3	16.27	55.057			
4,000.0	3,866.6	3,890.7	3,878.7	18.3	8.4	-163.25	253.8	35.5	924.9	908.2	16.71	55.344			
4,100.0	3,961.4	3,986.3	3,973.9	18.9	8.6	-163.29	261.3	39.2	954.3	937.1	17.16	55.615			
4,200.0	4,056.2	4,081.9	4,069.2	19.5	8.9	-163.32	268.7	42.9	983.6	966.0	17.60	55.873			
4,300.0	4,151.0	4,177.5	4,164.4	20.1	9.1	-163.35	276.2	46.6	1,013.0	994.9	18.05	56.117			

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #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	-89.49	0.7	-82.6	82.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.49	0.7	-82.6	82.6	82.3	0.30	271.884		
200.0	200.0	200.0	200.0	0.3	0.3	-89.49	0.7	-82.6	82.6	81.9	0.65	126.491	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	178.74	0.7	-82.6	83.4	82.4	1.00	83.289		
400.0	400.0	400.0	400.0	0.7	0.7	178.78	0.7	-82.6	86.1	84.7	1.35	63.707		
500.0	499.9	499.9	499.9	0.9	0.8	178.84	0.7	-82.6	90.4	88.7	1.70	53.196		
600.0	599.7	600.7	600.7	1.1	1.0	179.32	1.4	-82.0	96.0	93.9	2.05	46.803		
700.0	699.4	701.6	701.5	1.3	1.2	-179.45	3.5	-80.3	102.2	99.8	2.40	42.530		
800.0	798.9	802.4	802.2	1.5	1.4	-177.64	6.9	-77.5	109.2	106.4	2.76	39.565		
900.0	898.3	903.1	902.8	1.8	1.6	-175.39	11.7	-73.6	117.1	113.9	3.12	37.459		
1,000.0	997.4	1,003.7	1,003.0	2.0	1.8	-172.82	17.8	-68.5	125.9	122.4	3.50	35.937		
1,100.0	1,096.3	1,104.1	1,103.0	2.3	2.0	-170.05	25.3	-62.3	135.8	131.9	3.90	34.816		
1,200.0	1,194.9	1,204.3	1,202.5	2.7	2.3	-167.18	34.1	-55.1	147.0	142.6	4.33	33.970		
1,300.0	1,293.3	1,303.3	1,300.8	3.0	2.5	-164.63	43.4	-47.4	159.8	155.0	4.77	33.499		
1,400.0	1,391.2	1,402.0	1,398.8	3.4	2.7	-162.62	52.7	-39.7	174.5	169.3	5.23	33.373	SF	
1,500.0	1,488.9	1,500.5	1,496.5	3.8	3.0	-161.08	62.0	-32.1	191.0	185.3	5.70	33.506		
1,600.0	1,586.1	1,598.8	1,594.1	4.3	3.3	-159.93	71.3	-24.5	209.2	203.1	6.18	33.840		
1,700.0	1,682.9	1,696.7	1,691.3	4.7	3.5	-159.11	80.5	-16.9	229.1	222.5	6.67	34.331		
1,800.0	1,779.3	1,794.4	1,788.2	5.2	3.8	-158.54	89.7	-9.3	250.7	243.5	7.17	34.951		
1,900.0	1,875.2	1,891.7	1,884.7	5.8	4.0	-158.19	98.9	-1.7	273.8	266.1	7.67	35.676		
2,000.0	1,970.5	1,988.6	1,980.9	6.3	4.3	-158.00	108.0	5.8	298.5	290.3	8.18	36.491		
2,100.0	2,065.4	2,085.1	2,076.7	6.9	4.5	-157.97	117.1	13.3	324.6	315.9	8.68	37.373		
2,200.0	2,160.2	2,181.6	2,172.5	7.5	4.8	-158.00	126.2	20.8	350.9	341.7	9.19	38.177		
2,300.0	2,255.0	2,278.0	2,268.2	8.1	5.1	-158.04	135.3	28.3	377.2	367.5	9.70	38.888		
2,400.0	2,349.8	2,374.5	2,364.0	8.7	5.3	-158.07	144.4	35.8	403.6	393.4	10.21	39.521		
2,500.0	2,444.6	2,471.0	2,459.7	9.3	5.6	-158.09	153.5	43.2	429.9	419.2	10.72	40.088		
2,600.0	2,539.4	2,567.4	2,555.5	9.9	5.8	-158.12	162.6	50.7	456.3	445.0	11.24	40.597		
2,700.0	2,634.2	2,663.9	2,651.2	10.5	6.1	-158.14	171.7	58.2	482.6	470.9	11.75	41.058		
2,800.0	2,729.0	2,760.4	2,747.0	11.1	6.4	-158.15	180.7	65.7	509.0	496.7	12.27	41.476		
2,900.0	2,823.8	2,856.8	2,842.7	11.7	6.6	-158.17	189.8	73.2	535.3	522.5	12.79	41.858		
3,000.0	2,918.6	2,953.3	2,938.4	12.3	6.9	-158.19	198.9	80.7	561.6	548.3	13.31	42.207		
3,100.0	3,013.4	3,049.8	3,034.2	12.9	7.2	-158.20	208.0	88.2	588.0	574.2	13.83	42.528		
3,200.0	3,108.2	3,146.2	3,129.9	13.5	7.4	-158.21	217.1	95.7	614.3	600.0	14.35	42.824		
3,300.0	3,203.0	3,242.7	3,225.7	14.1	7.7	-158.22	226.2	103.1	640.7	625.8	14.87	43.097		
3,400.0	3,297.8	3,339.2	3,321.4	14.7	7.9	-158.23	235.3	110.6	667.0	651.6	15.39	43.350		
3,500.0	3,392.6	3,435.6	3,417.2	15.3	8.2	-158.24	244.4	118.1	693.3	677.4	15.91	43.586		
3,600.0	3,487.4	3,532.1	3,512.9	15.9	8.5	-158.25	253.5	125.6	719.7	703.3	16.43	43.805		
3,700.0	3,582.2	3,628.6	3,608.7	16.5	8.7	-158.26	262.6	133.1	746.0	729.1	16.95	44.010		
3,800.0	3,677.0	3,725.0	3,704.4	17.1	9.0	-158.27	271.7	140.6	772.4	754.9	17.47	44.201		
3,900.0	3,771.8	3,821.5	3,800.2	17.7	9.3	-158.27	280.8	148.1	798.7	780.7	18.00	44.381		
4,000.0	3,866.6	3,918.0	3,895.9	18.3	9.5	-158.28	289.8	155.6	825.1	806.5	18.52	44.550		
4,100.0	3,961.4	4,014.5	3,991.7	18.9	9.8	-158.29	298.9	163.1	851.4	832.4	19.04	44.709		
4,200.0	4,056.2	4,110.9	4,087.4	19.5	10.1	-158.29	308.0	170.5	877.7	858.2	19.57	44.859		
4,300.0	4,151.0	4,207.4	4,183.1	20.1	10.3	-158.30	317.1	178.0	904.1	884.0	20.09	45.001		
4,400.0	4,245.8	4,303.9	4,278.9	20.7	10.6	-158.30	326.2	185.5	930.4	909.8	20.61	45.135		
4,500.0	4,340.6	4,400.3	4,374.6	21.3	10.9	-158.31	335.3	193.0	956.8	935.6	21.14	45.262		
4,600.0	4,435.4	4,496.8	4,470.4	21.9	11.1	-158.31	344.4	200.5	983.1	961.5	21.66	45.382		
4,700.0	4,530.3	4,593.3	4,566.1	22.5	11.4	-158.32	353.5	208.0	1,009.5	987.3	22.19	45.496		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.44	0.7	-75.0	75.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.44	0.7	-75.0	75.0	74.7	0.30	247.002		
200.0	200.0	200.0	200.0	0.3	0.3	-89.44	0.7	-75.0	75.0	74.4	0.65	114.915 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.80	0.7	-75.0	75.9	74.9	1.00	75.746		
400.0	400.0	400.0	400.0	0.7	0.7	178.84	0.7	-75.0	78.5	77.2	1.35	58.113		
500.0	499.9	499.9	499.9	0.9	0.8	178.90	0.7	-75.0	82.9	81.2	1.70	48.750		
600.0	599.7	599.7	599.7	1.1	1.0	178.97	0.7	-75.0	89.0	86.9	2.05	43.431		
700.0	699.4	699.4	699.4	1.3	1.2	179.06	0.7	-75.0	96.8	94.4	2.40	40.390		
800.0	798.9	798.9	798.9	1.5	1.4	179.14	0.7	-75.0	106.4	103.6	2.75	38.759		
900.0	898.3	898.3	898.3	1.8	1.5	179.22	0.7	-75.0	117.7	114.6	3.09	38.061		
1,000.0	997.4	997.4	997.4	2.0	1.7	179.30	0.7	-75.0	130.8	127.3	3.44	38.012 SF		
1,100.0	1,096.3	1,098.2	1,098.2	2.3	1.9	179.58	1.3	-74.3	144.9	141.1	3.79	38.225		
1,200.0	1,194.9	1,199.2	1,199.1	2.7	2.1	-179.76	2.9	-72.3	159.5	155.3	4.14	38.491		
1,300.0	1,293.3	1,300.2	1,300.1	3.0	2.3	-178.84	5.6	-68.9	174.4	169.9	4.50	38.793		
1,400.0	1,391.2	1,401.4	1,401.0	3.4	2.4	-177.70	9.5	-64.0	189.9	185.0	4.85	39.114		
1,500.0	1,488.9	1,502.5	1,501.9	3.8	2.6	-176.42	14.5	-57.8	205.9	200.6	5.22	39.434		
1,600.0	1,586.1	1,603.7	1,602.6	4.3	2.9	-175.03	20.6	-50.2	222.4	216.8	5.60	39.730		
1,700.0	1,682.9	1,704.9	1,703.2	4.7	3.1	-173.56	27.8	-41.2	239.6	233.6	5.99	39.980		
1,800.0	1,779.3	1,806.1	1,803.5	5.2	3.3	-172.03	36.1	-30.8	257.4	251.0	6.41	40.161		
1,900.0	1,875.2	1,907.2	1,903.5	5.8	3.6	-170.47	45.5	-19.0	275.9	269.0	6.85	40.256		
2,000.0	1,970.5	2,005.3	2,000.3	6.3	3.9	-169.05	55.2	-6.8	295.6	288.3	7.32	40.409		
2,100.0	2,065.4	2,102.8	2,096.5	6.9	4.1	-167.87	64.9	5.3	317.0	309.2	7.79	40.677		
2,200.0	2,160.2	2,200.3	2,192.8	7.5	4.4	-166.88	74.5	17.5	338.7	330.4	8.28	40.887		
2,300.0	2,255.0	2,297.7	2,289.0	8.1	4.7	-166.00	84.2	29.6	360.5	351.7	8.79	41.022		
2,400.0	2,349.8	2,395.2	2,385.2	8.7	5.0	-165.23	93.9	41.7	382.4	373.1	9.30	41.100		
2,500.0	2,444.6	2,492.6	2,481.4	9.3	5.3	-164.53	103.6	53.8	404.4	394.5	9.83	41.133		
2,600.0	2,539.4	2,590.1	2,577.6	9.9	5.6	-163.91	113.3	65.9	426.4	416.0	10.37	41.134		
2,700.0	2,634.2	2,687.5	2,673.8	10.5	5.9	-163.35	122.9	78.1	448.4	437.5	10.91	41.109		
2,800.0	2,729.0	2,785.0	2,770.0	11.1	6.2	-162.85	132.6	90.2	470.5	459.0	11.46	41.066		
2,900.0	2,823.8	2,882.4	2,866.2	11.7	6.5	-162.38	142.3	102.3	492.6	480.6	12.01	41.010		
3,000.0	2,918.6	2,979.9	2,962.4	12.3	6.8	-161.96	152.0	114.4	514.7	502.2	12.57	40.944		
3,100.0	3,013.4	3,077.3	3,058.6	12.9	7.1	-161.57	161.6	126.5	536.9	523.8	13.14	40.871		
3,200.0	3,108.2	3,174.8	3,154.8	13.5	7.4	-161.22	171.3	138.7	559.1	545.4	13.71	40.793		
3,300.0	3,203.0	3,272.2	3,251.0	14.1	7.7	-160.89	181.0	150.8	581.3	567.0	14.28	40.712		
3,400.0	3,297.8	3,369.7	3,347.3	14.7	8.0	-160.58	190.7	162.9	603.5	588.7	14.85	40.630		
3,500.0	3,392.6	3,467.1	3,443.5	15.3	8.3	-160.30	200.3	175.0	625.8	610.3	15.43	40.548		
3,600.0	3,487.4	3,564.6	3,539.7	15.9	8.6	-160.03	210.0	187.1	648.0	632.0	16.01	40.465		
3,700.0	3,582.2	3,662.0	3,635.9	16.5	9.0	-159.79	219.7	199.3	670.3	653.7	16.60	40.383		
3,800.0	3,677.0	3,759.5	3,732.1	17.1	9.3	-159.56	229.4	211.4	692.5	675.4	17.18	40.303		
3,900.0	3,771.8	3,856.9	3,828.3	17.7	9.6	-159.34	239.0	223.5	714.8	697.1	17.77	40.224		
4,000.0	3,866.6	3,954.4	3,924.5	18.3	9.9	-159.14	248.7	235.6	737.1	718.8	18.36	40.146		
4,100.0	3,961.4	4,051.8	4,020.7	18.9	10.2	-158.95	258.4	247.7	759.4	740.5	18.95	40.071		
4,200.0	4,056.2	4,149.3	4,116.9	19.5	10.5	-158.77	268.1	259.9	781.7	762.2	19.54	39.997		
4,300.0	4,151.0	4,246.7	4,213.1	20.1	10.8	-158.59	277.7	272.0	804.0	783.9	20.14	39.925		
4,400.0	4,245.8	4,344.2	4,309.3	20.7	11.2	-158.43	287.4	284.1	826.4	805.6	20.73	39.856		
4,500.0	4,340.6	4,441.6	4,405.6	21.3	11.5	-158.28	297.1	296.2	848.7	827.4	21.33	39.788		
4,600.0	4,435.4	4,539.1	4,501.8	21.9	11.8	-158.14	306.8	308.3	871.0	849.1	21.93	39.723		
4,700.0	4,530.3	4,636.5	4,598.0	22.5	12.1	-158.00	316.4	320.5	893.4	870.8	22.53	39.659		
4,800.0	4,625.1	4,734.0	4,694.2	23.1	12.4	-157.87	326.1	332.6	915.7	892.6	23.13	39.597		
4,900.0	4,719.9	4,831.4	4,790.4	23.7	12.7	-157.74	335.8	344.7	938.1	914.3	23.73	39.538		
5,000.0	4,814.7	4,928.9	4,886.6	24.4	13.1	-157.62	345.5	356.8	960.4	936.1	24.33	39.480		
5,100.0	4,909.5	5,026.4	4,982.8	25.0	13.4	-157.51	355.1	369.0	982.8	957.8	24.93	39.424		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #4													Offset Site Error: 0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
5,200.0	5,004.3	5,123.8	5,079.0	25.6	13.7	-157.40	364.8	381.1	1,005.1	979.6	25.53	39.369	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #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	-89.37	0.7	-67.5	67.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.37	0.7	-67.5	67.5	67.2	0.30	222.120		
200.0	200.0	200.0	200.0	0.3	0.3	-89.37	0.7	-67.5	67.5	66.8	0.65	103.339 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	178.86	0.7	-67.5	68.3	67.3	1.00	68.204		
400.0	400.0	401.1	401.1	0.7	0.7	179.21	1.1	-66.6	70.1	68.8	1.35	51.847		
500.0	499.9	502.2	502.2	0.9	0.9	-179.86	2.2	-64.2	72.1	70.4	1.70	42.304		
600.0	599.7	603.3	603.2	1.1	1.0	-178.39	4.0	-60.1	74.3	72.2	2.06	36.087		
700.0	699.4	704.4	704.1	1.3	1.2	-176.43	6.5	-54.4	76.7	74.2	2.41	31.745		
800.0	798.9	805.5	804.9	1.5	1.5	-174.06	9.7	-47.0	79.3	76.6	2.78	28.562		
900.0	898.3	906.6	905.5	1.8	1.7	-171.34	13.6	-38.1	82.4	79.3	3.15	26.140		
1,000.0	997.4	1,007.7	1,005.9	2.0	1.9	-168.33	18.2	-27.5	86.0	82.4	3.55	24.232		
1,100.0	1,096.3	1,108.7	1,106.0	2.3	2.2	-165.13	23.6	-15.3	90.1	86.1	3.97	22.680		
1,200.0	1,194.9	1,209.6	1,205.8	2.7	2.5	-161.80	29.6	-1.4	94.8	90.4	4.43	21.375		
1,300.0	1,293.3	1,310.6	1,305.3	3.0	2.8	-158.42	36.4	14.0	100.2	95.3	4.95	20.247		
1,400.0	1,391.2	1,411.4	1,404.4	3.4	3.2	-155.06	43.8	31.0	106.4	100.8	5.53	19.251		
1,500.0	1,488.9	1,511.9	1,502.9	3.8	3.6	-151.79	51.9	49.5	113.3	107.2	6.17	18.376		
1,600.0	1,586.1	1,611.4	1,600.3	4.3	3.9	-149.11	60.2	68.4	121.8	114.9	6.85	17.788		
1,700.0	1,682.9	1,710.8	1,697.5	4.7	4.3	-147.17	68.4	87.2	131.9	124.4	7.54	17.488		
1,800.0	1,779.3	1,810.1	1,794.6	5.2	4.7	-145.89	76.7	106.0	143.6	135.4	8.25	17.411 SF		
1,900.0	1,875.2	1,909.2	1,891.6	5.8	5.1	-145.15	84.9	124.8	156.8	147.8	8.95	17.510		
2,000.0	1,970.5	2,008.2	1,988.4	6.3	5.5	-144.85	93.1	143.6	171.4	161.7	9.65	17.751		
2,100.0	2,065.4	2,106.9	2,085.0	6.9	5.9	-144.90	101.3	162.3	187.2	176.9	10.34	18.101		
2,200.0	2,160.2	2,205.6	2,181.6	7.5	6.3	-145.02	109.5	181.0	203.3	192.3	11.03	18.428		
2,300.0	2,255.0	2,304.3	2,278.1	8.1	6.7	-145.13	117.7	199.7	219.4	207.7	11.72	18.712		
2,400.0	2,349.8	2,403.0	2,374.7	8.7	7.1	-145.22	125.8	218.5	235.5	223.0	12.42	18.960		
2,500.0	2,444.6	2,501.7	2,471.2	9.3	7.5	-145.30	134.0	237.2	251.5	238.4	13.12	19.178		
2,600.0	2,539.4	2,600.4	2,567.8	9.9	7.9	-145.38	142.2	255.9	267.6	253.8	13.82	19.372		
2,700.0	2,634.2	2,699.1	2,664.4	10.5	8.3	-145.44	150.4	274.6	283.7	269.2	14.52	19.545		
2,800.0	2,729.0	2,797.8	2,760.9	11.1	8.6	-145.50	158.6	293.3	299.8	284.6	15.22	19.700		
2,900.0	2,823.8	2,896.5	2,857.5	11.7	9.0	-145.55	166.8	312.0	315.9	300.0	15.92	19.840		
3,000.0	2,918.6	2,995.2	2,954.0	12.3	9.4	-145.59	175.0	330.7	332.0	315.3	16.63	19.967		
3,100.0	3,013.4	3,093.9	3,050.6	12.9	9.8	-145.63	183.2	349.4	348.1	330.7	17.33	20.082		
3,200.0	3,108.2	3,192.6	3,147.2	13.5	10.2	-145.67	191.3	368.2	364.1	346.1	18.04	20.188		
3,300.0	3,203.0	3,291.3	3,243.7	14.1	10.6	-145.71	199.5	386.9	380.2	361.5	18.74	20.285		
3,400.0	3,297.8	3,390.0	3,340.3	14.7	11.0	-145.74	207.7	405.6	396.3	376.9	19.45	20.374		
3,500.0	3,392.6	3,488.7	3,436.8	15.3	11.4	-145.77	215.9	424.3	412.4	392.2	20.16	20.456		
3,600.0	3,487.4	3,587.3	3,533.4	15.9	11.8	-145.80	224.1	443.0	428.5	407.6	20.87	20.532		
3,700.0	3,582.2	3,686.0	3,630.0	16.5	12.2	-145.82	232.3	461.7	444.6	423.0	21.58	20.603		
3,800.0	3,677.0	3,784.7	3,726.5	17.1	12.6	-145.84	240.5	480.4	460.6	438.4	22.29	20.669		
3,900.0	3,771.8	3,883.4	3,823.1	17.7	13.0	-145.87	248.7	499.2	476.7	453.7	23.00	20.731		
4,000.0	3,866.6	3,982.1	3,919.6	18.3	13.4	-145.89	256.9	517.9	492.8	469.1	23.71	20.788		
4,100.0	3,961.4	4,080.8	4,016.2	18.9	13.8	-145.91	265.0	536.6	508.9	484.5	24.42	20.842		
4,200.0	4,056.2	4,179.5	4,112.8	19.5	14.2	-145.92	273.2	555.3	525.0	499.9	25.13	20.893		
4,300.0	4,151.0	4,278.2	4,209.3	20.1	14.6	-145.94	281.4	574.0	541.1	515.2	25.84	20.940		
4,400.0	4,245.8	4,376.9	4,305.9	20.7	15.0	-145.96	289.6	592.7	557.2	530.6	26.55	20.985		
4,500.0	4,340.6	4,475.6	4,402.5	21.3	15.4	-145.97	297.8	611.4	573.2	546.0	27.26	21.028		
4,600.0	4,435.4	4,574.3	4,499.0	21.9	15.8	-145.99	306.0	630.1	589.3	561.4	27.97	21.068		
4,700.0	4,530.3	4,673.0	4,595.6	22.5	16.2	-146.00	314.2	648.9	605.4	576.7	28.68	21.106		
4,800.0	4,625.1	4,771.7	4,692.1	23.1	16.6	-146.01	322.4	667.6	621.5	592.1	29.40	21.142		
4,900.0	4,719.9	4,870.4	4,788.7	23.7	17.0	-146.02	330.5	686.3	637.6	607.5	30.11	21.176		
5,000.0	4,814.7	4,969.1	4,885.3	24.4	17.4	-146.04	338.7	705.0	653.7	622.9	30.82	21.208		
5,100.0	4,909.5	5,067.8	4,981.8	25.0	17.8	-146.05	346.9	723.7	669.8	638.2	31.53	21.239		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #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	5,004.3	5,166.5	5,078.4	25.6	18.2	-146.06	355.1	742.4	685.8	653.6	32.25	21.269		
5,300.0	5,099.1	5,265.2	5,174.9	26.2	18.6	-146.07	363.3	761.1	701.9	669.0	32.96	21.297		
5,400.0	5,193.9	5,363.9	5,271.5	26.8	19.0	-146.08	371.5	779.9	718.0	684.3	33.67	21.324		
5,500.0	5,288.7	5,462.6	5,368.1	27.4	19.4	-146.09	379.7	798.6	734.1	699.7	34.39	21.350		
5,600.0	5,383.5	5,561.3	5,464.6	28.0	19.8	-146.09	387.9	817.3	750.2	715.1	35.10	21.374		
5,700.0	5,478.3	5,660.0	5,561.2	28.6	20.2	-146.10	396.1	836.0	766.3	730.5	35.81	21.398		
5,800.0	5,573.1	5,758.7	5,657.7	29.2	20.6	-146.11	404.2	854.7	782.4	745.8	36.52	21.420		
5,900.0	5,667.9	5,857.4	5,754.3	29.8	21.0	-146.12	412.4	873.4	798.5	761.2	37.24	21.442		
6,000.0	5,762.7	5,956.1	5,850.9	30.4	21.4	-146.13	420.6	892.1	814.5	776.6	37.95	21.463		
6,100.0	5,857.5	6,054.8	5,947.4	31.0	21.8	-146.13	428.8	910.8	830.6	792.0	38.66	21.483		
6,200.0	5,952.3	6,153.5	6,044.0	31.6	22.2	-146.14	437.0	929.6	846.7	807.3	39.38	21.502		
6,300.0	6,047.1	6,252.2	6,140.5	32.2	22.6	-146.15	445.2	948.3	862.8	822.7	40.09	21.521		
6,400.0	6,141.9	6,350.9	6,237.1	32.9	23.0	-146.15	453.4	967.0	878.9	838.1	40.81	21.538		
6,500.0	6,236.7	6,449.6	6,333.7	33.5	23.4	-146.16	461.6	985.7	895.0	853.4	41.52	21.556		
6,600.0	6,331.5	6,548.3	6,430.2	34.1	23.8	-146.16	469.7	1,004.4	911.1	868.8	42.23	21.572		
6,700.0	6,426.3	6,647.0	6,526.8	34.7	24.2	-146.17	477.9	1,023.1	927.1	884.2	42.95	21.588		
6,800.0	6,521.1	6,745.7	6,623.4	35.3	24.6	-146.18	486.1	1,041.8	943.2	899.6	43.66	21.604		
6,900.0	6,615.9	6,844.4	6,719.9	35.9	25.0	-146.18	494.3	1,060.6	959.3	914.9	44.37	21.619		
7,000.0	6,710.7	6,943.1	6,816.5	36.5	25.5	-146.19	502.5	1,079.3	975.4	930.3	45.09	21.633		
7,100.0	6,805.5	7,040.0	6,916.2	37.1	26.0	-177.26	4.3	1,211.0	979.3	955.3	23.93	40.927		
7,200.0	6,900.3	7,136.5	7,011.9	37.7	26.7	179.06	-52.0	1,211.7	938.9	914.1	24.79	37.865		
7,300.0	6,995.1	7,232.2	7,111.9	38.3	27.4	-163.84	-49.9	1,211.7	907.3	881.6	25.65	35.367		
7,400.0	7,089.9	7,327.9	7,207.9	38.9	28.1	-140.15	-20.2	1,211.4	884.5	858.2	26.31	33.621		
7,500.0	7,184.7	7,423.6	7,303.6	39.3	28.6	-124.41	18.9	1,210.6	870.7	843.9	26.84	32.441		
7,600.0	7,279.5	7,518.4	7,397.4	39.8	29.1	-113.77	61.4	1,209.2	865.3	838.1	27.20	31.811		
7,620.3	7,276.7	7,515.1	7,394.1	39.9	29.2	-111.99	70.2	1,208.8	865.2	837.9	27.26	31.739		
7,700.0	7,374.3	7,616.0	7,494.3	40.2	29.5	-105.74	105.1	1,207.0	867.3	840.0	27.33	31.733		
7,800.0	7,471.9	7,713.6	7,591.9	40.5	29.8	-99.09	149.4	1,204.0	875.3	848.1	27.25	32.124		
7,900.0	7,569.5	7,811.2	7,689.5	40.9	30.1	-93.24	195.0	1,200.1	887.6	860.6	27.03	32.838		
8,000.0	7,667.1	7,908.8	7,786.1	41.2	30.4	-88.21	238.6	1,195.5	902.7	875.9	26.77	33.719		
8,100.0	7,764.7	8,006.4	7,883.7	41.5	30.7	-83.99	280.0	1,190.2	918.8	892.2	26.57	34.576		
8,200.0	7,862.3	8,104.0	7,979.3	41.8	31.0	-81.55	310.2	1,185.6	935.1	908.5	26.63	35.113		
8,300.0	7,959.9	8,201.6	8,074.9	42.1	31.3	-79.85	341.5	1,180.1	956.8	930.0	26.84	35.646		
8,400.0	8,057.5	8,299.2	8,174.1	42.5	31.6	-78.27	367.0	1,174.9	985.3	958.0	27.31	36.075		
8,500.0	8,155.1	8,396.8	8,269.7	43.0	31.9	-76.89	387.3	1,170.3	1,020.5	992.4	28.08	36.337		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #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	-89.65	0.4	-59.9	59.9				
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.4	-59.9	59.9	59.6	0.30	197.227	
109.5	109.5	109.5	109.5	0.2	0.2	-89.65	0.4	-59.9	59.9	59.6	0.34	177.840 CC	
200.0	200.0	200.0	200.0	0.3	0.3	-89.02	1.0	-59.9	59.9	59.2	0.65	91.663 ES	
300.0	300.0	299.9	299.7	0.5	0.5	-175.95	6.2	-59.9	61.1	60.0	1.02	59.752	
400.0	400.0	400.7	400.3	0.7	0.7	-169.65	13.2	-58.7	63.6	62.2	1.40	45.292	
500.0	499.9	501.5	500.8	0.9	0.9	-163.81	20.4	-55.7	66.9	65.1	1.80	37.228	
600.0	599.7	602.4	601.3	1.1	1.2	-158.47	27.5	-51.0	70.8	68.6	2.20	32.162	
700.0	699.4	703.2	701.7	1.3	1.4	-153.65	34.7	-44.5	75.2	72.6	2.62	28.691	
800.0	798.9	804.1	802.0	1.5	1.7	-149.32	42.0	-36.3	80.2	77.1	3.07	26.139	
900.0	898.3	905.0	902.1	1.8	1.9	-145.44	49.3	-26.2	85.6	82.1	3.54	24.148	
1,000.0	997.4	1,005.9	1,002.0	2.0	2.2	-141.98	56.7	-14.4	91.4	87.3	4.06	22.517	
1,100.0	1,096.3	1,106.8	1,101.7	2.3	2.5	-138.89	64.0	-0.8	97.5	92.9	4.62	21.129	
1,200.0	1,194.9	1,207.7	1,201.2	2.7	2.8	-136.12	71.5	14.5	103.9	98.7	5.22	19.913	
1,300.0	1,293.3	1,308.7	1,300.4	3.0	3.2	-133.63	78.9	31.6	110.6	104.7	5.87	18.829	
1,400.0	1,391.2	1,409.6	1,399.3	3.4	3.6	-131.39	86.4	50.4	117.5	110.9	6.58	17.848	
1,500.0	1,488.9	1,510.6	1,497.9	3.8	4.0	-129.36	93.9	71.0	124.6	117.3	7.35	16.953	
1,600.0	1,586.1	1,611.6	1,596.1	4.3	4.4	-127.52	101.5	93.3	131.9	123.7	8.17	16.136	
1,700.0	1,682.9	1,711.4	1,692.9	4.7	4.9	-126.09	108.9	116.4	139.7	130.7	9.03	15.473	
1,800.0	1,779.3	1,811.0	1,789.4	5.2	5.3	-125.35	116.4	139.5	148.6	138.7	9.90	15.009	
1,900.0	1,875.2	1,910.5	1,886.0	5.8	5.8	-125.19	123.8	162.6	158.5	147.7	10.78	14.703	
2,000.0	1,970.5	2,009.9	1,982.4	6.3	6.2	-125.52	131.3	185.6	169.4	157.7	11.66	14.526	
2,100.0	2,065.4	2,109.1	2,078.6	6.9	6.7	-126.24	138.7	208.6	181.2	168.7	12.53	14.460	
2,200.0	2,160.2	2,208.4	2,174.9	7.5	7.1	-126.98	146.2	231.6	193.3	179.9	13.40	14.424	
2,300.0	2,255.0	2,307.6	2,271.1	8.1	7.6	-127.64	153.6	254.6	205.3	191.1	14.26	14.396	
2,400.0	2,349.8	2,406.9	2,367.4	8.7	8.0	-128.22	161.0	277.6	217.4	202.3	15.12	14.374	
2,500.0	2,444.6	2,506.1	2,463.7	9.3	8.5	-128.75	168.4	300.6	229.5	213.5	15.98	14.358	
2,600.0	2,539.4	2,605.4	2,559.9	9.9	8.9	-129.22	175.9	323.6	241.6	224.8	16.84	14.346	
2,700.0	2,634.2	2,704.6	2,656.2	10.5	9.4	-129.64	183.3	346.7	253.8	236.1	17.70	14.336	
2,800.0	2,729.0	2,803.8	2,752.4	11.1	9.9	-130.03	190.7	369.7	265.9	247.3	18.56	14.329	
2,900.0	2,823.8	2,903.1	2,848.7	11.7	10.3	-130.38	198.2	392.7	278.0	258.6	19.41	14.324	
3,000.0	2,918.6	3,002.3	2,944.9	12.3	10.8	-130.70	205.6	415.7	290.2	269.9	20.26	14.321	
3,100.0	3,013.4	3,101.6	3,041.2	12.9	11.2	-131.00	213.0	438.7	302.4	281.3	21.12	14.319	
3,200.0	3,108.2	3,200.8	3,137.4	13.5	11.7	-131.27	220.4	461.7	314.6	292.6	21.97	14.318	
3,300.0	3,203.0	3,300.1	3,233.7	14.1	12.2	-131.53	227.9	484.7	326.7	303.9	22.82	14.318 SF	
3,400.0	3,297.8	3,399.3	3,330.0	14.7	12.6	-131.76	235.3	507.7	338.9	315.3	23.67	14.318	
3,500.0	3,392.6	3,498.6	3,426.2	15.3	13.1	-131.98	242.7	530.7	351.1	326.6	24.52	14.319	
3,600.0	3,487.4	3,597.8	3,522.5	15.9	13.5	-132.18	250.2	553.7	363.3	338.0	25.37	14.321	
3,700.0	3,582.2	3,697.0	3,618.7	16.5	14.0	-132.37	257.6	576.7	375.5	349.3	26.22	14.323	
3,800.0	3,677.0	3,796.3	3,715.0	17.1	14.5	-132.55	265.0	599.7	387.7	360.7	27.07	14.325	
3,900.0	3,771.8	3,895.5	3,811.2	17.7	14.9	-132.72	272.4	622.7	400.0	372.0	27.92	14.327	
4,000.0	3,866.6	3,994.8	3,907.5	18.3	15.4	-132.88	279.9	645.7	412.2	383.4	28.76	14.330	
4,100.0	3,961.4	4,094.0	4,003.7	18.9	15.9	-133.03	287.3	668.7	424.4	394.8	29.61	14.332	
4,200.0	4,056.2	4,193.3	4,100.0	19.5	16.3	-133.17	294.7	691.7	436.6	406.2	30.46	14.335	
4,300.0	4,151.0	4,292.5	4,196.3	20.1	16.8	-133.30	302.2	714.7	448.8	417.5	31.30	14.338	
4,400.0	4,245.8	4,391.8	4,292.5	20.7	17.3	-133.43	309.6	737.7	461.1	428.9	32.15	14.341	
4,500.0	4,340.6	4,491.0	4,388.8	21.3	17.7	-133.55	317.0	760.7	473.3	440.3	33.00	14.343	
4,600.0	4,435.4	4,590.2	4,485.0	21.9	18.2	-133.66	324.5	783.8	485.5	451.7	33.84	14.346	
4,700.0	4,530.3	4,689.5	4,581.3	22.5	18.7	-133.77	331.9	806.8	497.8	463.1	34.69	14.349	
4,800.0	4,625.1	4,788.7	4,677.5	23.1	19.1	-133.87	339.3	829.8	510.0	474.5	35.53	14.352	
4,900.0	4,719.9	4,888.0	4,773.8	23.7	19.6	-133.97	346.7	852.8	522.2	485.8	36.38	14.355	
5,000.0	4,814.7	4,987.2	4,870.0	24.4	20.0	-134.06	354.2	875.8	534.5	497.2	37.22	14.358	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #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	4,909.5	5,086.5	4,966.3	25.0	20.5	-134.15	361.6	898.8	546.7	508.6	38.07	14.361		
5,200.0	5,004.3	5,185.7	5,062.6	25.6	21.0	-134.24	369.0	921.8	558.9	520.0	38.91	14.364		
5,300.0	5,099.1	5,285.0	5,158.8	26.2	21.4	-134.32	376.5	944.8	571.2	531.4	39.76	14.366		
5,400.0	5,193.9	5,384.2	5,255.1	26.8	21.9	-134.40	383.9	967.8	583.4	542.8	40.60	14.369		
5,500.0	5,288.7	5,483.5	5,351.3	27.4	22.4	-134.47	391.3	990.8	595.7	554.2	41.45	14.372		
5,600.0	5,383.5	5,582.7	5,447.6	28.0	22.8	-134.54	398.7	1,013.8	607.9	565.6	42.29	14.375		
5,700.0	5,478.3	5,681.9	5,543.8	28.6	23.3	-134.61	406.2	1,036.8	620.1	577.0	43.13	14.377		
5,800.0	5,573.1	5,781.2	5,640.1	29.2	23.8	-134.68	413.6	1,059.8	632.4	588.4	43.98	14.380		
5,900.0	5,667.9	5,880.4	5,736.3	29.8	24.2	-134.74	421.0	1,082.8	644.6	599.8	44.82	14.382		
6,000.0	5,762.7	5,979.7	5,832.6	30.4	24.7	-134.80	428.5	1,105.8	656.9	611.2	45.66	14.385		
6,100.0	5,857.5	6,078.9	5,928.9	31.0	25.2	-134.86	435.9	1,128.8	669.1	622.6	46.51	14.387		
6,200.0	5,952.3	6,178.2	6,025.1	31.6	25.6	-134.92	443.3	1,151.8	681.4	634.0	47.35	14.390		
6,300.0	6,047.1	6,277.4	6,121.4	32.2	26.1	-134.98	450.8	1,174.8	693.6	645.4	48.19	14.392		
6,400.0	6,141.9	6,376.7	6,217.6	32.9	26.6	-135.03	458.2	1,197.8	705.9	656.8	49.04	14.394		
6,500.0	6,236.7	6,475.9	6,313.9	33.5	27.0	-135.08	465.6	1,220.8	718.1	668.2	49.88	14.397		
6,600.0	6,331.5	6,575.1	6,410.1	34.1	27.5	-135.13	473.0	1,243.9	730.4	679.6	50.72	14.399		
6,700.0	6,426.3	6,674.4	6,506.4	34.7	28.0	-135.18	480.5	1,266.9	742.6	691.1	51.57	14.401		
6,800.0	6,521.1	6,773.6	6,602.6	35.3	28.4	-135.22	487.9	1,289.9	754.9	702.5	52.41	14.403		
6,900.0	6,615.9	6,872.9	6,698.9	35.9	28.9	-135.27	495.3	1,312.9	767.1	713.9	53.25	14.405		
7,000.0	6,710.7	6,972.1	6,795.2	36.5	29.4	-135.31	502.8	1,335.9	779.4	725.3	54.10	14.407		
7,100.0	6,805.5	7,071.4	6,891.4	37.1	29.8	-135.36	510.2	1,358.9	791.6	736.7	54.94	14.409		
7,200.0	6,900.3	7,170.6	6,987.7	37.7	30.3	-135.40	517.6	1,381.9	803.9	748.1	55.78	14.411		
7,300.0	6,995.1	7,270.1	7,084.1	38.3	30.8	-116.31	525.1	1,404.9	813.4	756.8	56.59	14.373		
7,400.0	7,088.7	8,227.3	7,738.3	38.9	32.4	-147.31	2.4	1,561.3	782.3	759.0	23.28	33.605		
7,500.0	7,178.2	8,110.8	7,718.2	39.3	32.3	-129.30	116.8	1,556.5	722.8	695.6	27.18	26.595		
7,600.0	7,261.0	8,049.8	7,698.7	39.8	32.3	-121.14	174.5	1,551.8	671.1	641.3	29.77	22.539		
7,700.0	7,334.6	7,995.4	7,676.5	40.2	32.3	-115.58	223.8	1,546.5	629.1	597.8	31.31	20.096		
7,800.0	7,396.6	7,943.1	7,650.9	40.5	32.2	-110.81	268.9	1,540.4	598.2	566.6	31.67	18.890		
7,900.0	7,445.3	7,891.8	7,622.0	40.9	32.2	-106.12	310.7	1,533.5	579.2	548.2	30.95	18.713		
8,000.0	7,479.2	7,841.0	7,589.9	41.2	32.2	-101.25	349.3	1,525.8	571.7	542.1	29.58	19.330		
8,020.1	7,484.1	7,830.8	7,583.0	41.2	32.2	-100.25	356.7	1,524.2	571.5	542.2	29.30	19.508		
8,100.0	7,497.1	7,790.5	7,554.8	41.5	32.1	-96.22	384.7	1,517.4	574.5	546.3	28.26	20.332		
8,200.0	7,500.0	7,741.0	7,517.6	41.8	32.1	-91.75	416.1	1,508.5	586.0	558.3	27.69	21.164		
8,300.0	7,500.0	7,700.0	7,484.9	42.1	32.1	-88.52	439.5	1,500.7	608.5	580.2	28.37	21.452		
8,400.0	7,500.0	7,664.7	7,455.5	42.5	32.0	-85.68	457.7	1,493.7	642.6	612.3	30.32	21.193		
8,500.0	7,500.0	7,636.1	7,430.9	43.0	32.0	-83.36	471.1	1,487.8	687.2	654.1	33.14	20.739		
8,600.0	7,500.0	7,612.1	7,409.8	43.6	31.9	-81.41	481.4	1,482.8	741.1	704.9	36.25	20.448		
8,700.0	7,500.0	7,600.0	7,399.0	44.2	31.9	-80.43	486.2	1,480.2	802.8	763.2	39.57	20.286		
8,800.0	7,500.0	7,574.1	7,375.6	44.9	31.8	-78.36	495.7	1,474.6	870.6	828.6	41.99	20.733		
8,900.0	7,500.0	7,550.0	7,353.4	45.7	31.8	-76.45	503.5	1,469.3	943.7	899.6	44.09	21.404		
9,000.0	7,500.0	7,550.0	7,353.4	46.5	31.8	-76.45	503.5	1,469.3	1,020.7	974.1	46.58	21.914		

Cathedral Energy Services

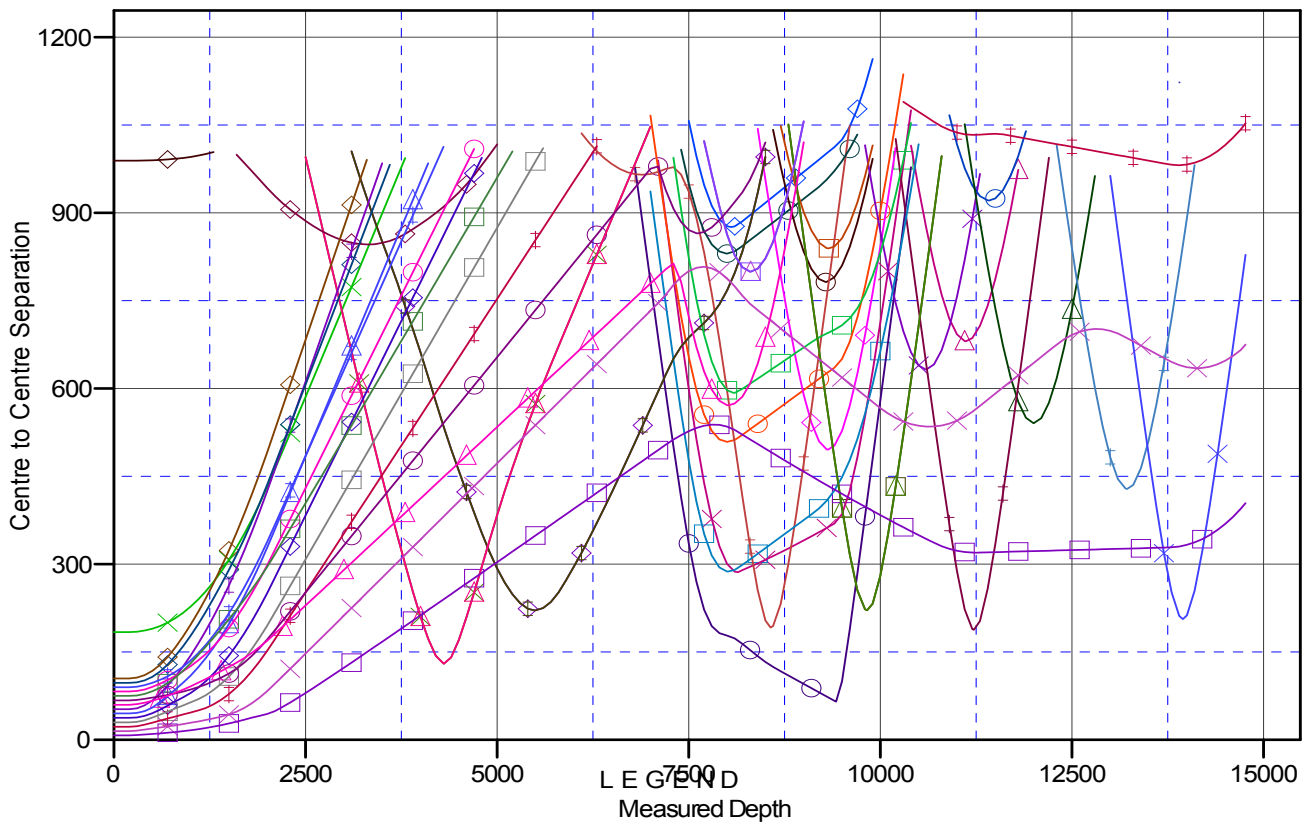
Anticollision Report

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

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

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

Ladder Plot



8, Hz, Plan #2 V0	BECKY 2-6 (EXISTING), NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2A-7H-E168, Hz, Plan #
8, Hz, Plan #2 V0	BECKY 7-6 (EXISTING), NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2B-7H-E168, Hz, Plan #
8, Hz, Plan #2 V0	BULTHAUP 21-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	Woolley-Becky 2C-7H-E168, Hz, Plan #
8, Hz, Plan #2 V0	BULTHAUP 23-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	Woolley-Becky 2D-7H-E168, Hz, Plan #
NG), ENCANA WELL, NO SURVEYS V0	Morgan Hills 1A-7H-A168, Hz, Plan #2 V0	Woolley-Becky 2E-7H-E168, Hz, Plan #
NG), ENCANA WELL, SURVEYS V0	Morgan Hills 1B-7H-A168, Hz, Plan #2 V0	Woolley-Becky 2F-7H-E168, Hz, Plan #
ING), ENCANA WELL, SURVEYS V0	Morgan Hills 1C-7H-A168, Hz, Plan #2 V0	Woolley-Becky 2G-7H-E168, Hz, Plan #
NG), ENCANA WELL, PLAN ONLY V0	Thomas 7-12 (Existing), Existing, NO SURVEYS V0	Woolley-Sosa 2A-7H-E168, Hz, Plan #
ING), ENCANA WELL, SURVEYS V0	WOOLLEY 12-7 (EXISTING), ENCANA WELL, NO SURVEYS V0	Woolley-Sosa 2B-7H-E168, Hz, Plan #
ING), ENCANA WELL, PLAN ONLY V0	WOOLLEY 21-7 (EXISTING), ENCANA WELL, GYRO V0	Woolley-Sosa 2C-7H-E168, Hz, Plan #
ING), ENCANA WELL, NO SURVEYS V0	WOOLLEY 22-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2D-7H-E168, Hz, Plan #
), Existing, Existing V0	WOOLLEY 2-4-7 (EXISTING), ENCANA WELL, SURVEYS V0	Woolley-Sosa 2E-7H-E168, Hz, Plan #

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