



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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)			
Site Position:		Northing:	1,265,219.42 ft	Latitude:	40.060530
From:	Lat/Long	Easting:	3,126,139.27 ft	Longitude:	-105.049370
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Woolley-Becky 2B-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,458.13 ft	Latitude:	40.066690
	+E/-W	0.0 ft	Easting:	3,125,100.72 ft	Longitude:	-105.053040
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,995.0 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 #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	3.00	220.00	599.9	-6.0	-5.0	1.00	1.00	0.00	220.00	
856.1	0.63	261.63	855.9	-11.4	-10.8	1.00	-0.92	16.25	170.54	
7,011.9	0.63	261.63	7,011.3	-21.3	-78.1	0.00	0.00	0.00	0.00	
7,912.7	90.00	359.00	7,585.0	551.5	-94.4	10.00	9.92	10.81	97.36	
9,112.7	90.00	359.00	7,585.0	1,751.3	-115.3	0.00	0.00	0.00	0.00	Woolley-Becky 2B-7H
9,212.7	90.00	359.00	7,585.0	1,851.3	-117.0	0.00	0.00	0.00	0.00	
9,512.7	90.00	356.00	7,585.0	2,151.0	-130.1	1.00	0.00	-1.00	-90.00	
10,712.7	90.00	356.00	7,585.0	3,348.1	-213.8	0.00	0.00	0.00	0.00	
11,110.0	90.00	359.97	7,585.0	3,745.0	-227.8	1.00	0.00	1.00	90.00	
14,508.5	90.00	359.97	7,585.0	7,143.5	-229.4	0.00	0.00	0.00	0.00	Woolley-Becky 2B-7H

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300'
400.0	1.00	220.00	400.0	-0.7	-0.6	-0.7	1.00	1.00	
420.0	1.20	220.00	420.0	-1.0	-0.8	-1.0	1.00	1.00	Fox Hills - BASE
500.0	2.00	220.00	500.0	-2.7	-2.2	-2.7	1.00	1.00	
600.0	3.00	220.00	599.9	-6.0	-5.0	-6.0	1.00	1.00	EOB; Inc=3°
700.0	2.02	224.67	699.8	-9.3	-8.0	-9.3	1.00	-0.98	
800.0	1.08	237.74	799.7	-11.0	-10.0	-11.0	1.00	-0.94	
856.1	0.63	261.63	855.9	-11.4	-10.8	-11.4	1.00	-0.79	EOD; Inc=.6°
900.0	0.63	261.63	899.7	-11.4	-11.2	-11.4	0.00	0.00	
1,000.0	0.63	261.63	999.7	-11.6	-12.3	-11.6	0.00	0.00	
1,100.0	0.63	261.63	1,099.7	-11.7	-13.4	-11.7	0.00	0.00	
1,200.0	0.63	261.63	1,199.7	-11.9	-14.5	-11.9	0.00	0.00	
1,300.0	0.63	261.63	1,299.7	-12.1	-15.6	-12.1	0.00	0.00	
1,400.0	0.63	261.63	1,399.7	-12.2	-16.7	-12.2	0.00	0.00	
1,500.0	0.63	261.63	1,499.7	-12.4	-17.8	-12.4	0.00	0.00	
1,600.0	0.63	261.63	1,599.7	-12.6	-18.9	-12.6	0.00	0.00	
1,700.0	0.63	261.63	1,699.7	-12.7	-20.0	-12.7	0.00	0.00	
1,800.0	0.63	261.63	1,799.7	-12.9	-21.1	-12.9	0.00	0.00	
1,900.0	0.63	261.63	1,899.7	-13.0	-22.2	-13.0	0.00	0.00	
2,000.0	0.63	261.63	1,999.7	-13.2	-23.3	-13.2	0.00	0.00	
2,100.0	0.63	261.63	2,099.6	-13.4	-24.4	-13.4	0.00	0.00	
2,200.0	0.63	261.63	2,199.6	-13.5	-25.5	-13.5	0.00	0.00	
2,300.0	0.63	261.63	2,299.6	-13.7	-26.5	-13.7	0.00	0.00	
2,400.0	0.63	261.63	2,399.6	-13.8	-27.6	-13.8	0.00	0.00	
2,500.0	0.63	261.63	2,499.6	-14.0	-28.7	-14.0	0.00	0.00	
2,600.0	0.63	261.63	2,599.6	-14.2	-29.8	-14.2	0.00	0.00	
2,700.0	0.63	261.63	2,699.6	-14.3	-30.9	-14.3	0.00	0.00	
2,800.0	0.63	261.63	2,799.6	-14.5	-32.0	-14.5	0.00	0.00	
2,900.0	0.63	261.63	2,899.6	-14.6	-33.1	-14.6	0.00	0.00	
3,000.0	0.63	261.63	2,999.6	-14.8	-34.2	-14.8	0.00	0.00	
3,100.0	0.63	261.63	3,099.6	-15.0	-35.3	-15.0	0.00	0.00	
3,200.0	0.63	261.63	3,199.6	-15.1	-36.4	-15.1	0.00	0.00	
3,300.0	0.63	261.63	3,299.6	-15.3	-37.5	-15.3	0.00	0.00	
3,400.0	0.63	261.63	3,399.6	-15.4	-38.6	-15.4	0.00	0.00	
3,500.0	0.63	261.63	3,499.6	-15.6	-39.7	-15.6	0.00	0.00	
3,600.0	0.63	261.63	3,599.6	-15.8	-40.8	-15.8	0.00	0.00	
3,700.0	0.63	261.63	3,699.5	-15.9	-41.9	-15.9	0.00	0.00	
3,800.0	0.63	261.63	3,799.5	-16.1	-42.9	-16.1	0.00	0.00	
3,900.0	0.63	261.63	3,899.5	-16.3	-44.0	-16.3	0.00	0.00	
4,000.0	0.63	261.63	3,999.5	-16.4	-45.1	-16.4	0.00	0.00	
4,100.0	0.63	261.63	4,099.5	-16.6	-46.2	-16.6	0.00	0.00	
4,200.0	0.63	261.63	4,199.5	-16.7	-47.3	-16.7	0.00	0.00	
4,300.0	0.63	261.63	4,299.5	-16.9	-48.4	-16.9	0.00	0.00	
4,400.0	0.63	261.63	4,399.5	-17.1	-49.5	-17.1	0.00	0.00	
4,471.5	0.63	261.63	4,471.0	-17.2	-50.3	-17.2	0.00	0.00	Sussex
4,500.0	0.63	261.63	4,499.5	-17.2	-50.6	-17.2	0.00	0.00	
4,600.0	0.63	261.63	4,599.5	-17.4	-51.7	-17.4	0.00	0.00	
4,700.0	0.63	261.63	4,699.5	-17.5	-52.8	-17.5	0.00	0.00	
4,760.5	0.63	261.63	4,760.0	-17.6	-53.5	-17.6	0.00	0.00	Sussex Marker

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Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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
4,800.0	0.63	261.63	4,799.5	-17.7	-53.9	-17.7	0.00	0.00	
4,900.0	0.63	261.63	4,899.5	-17.9	-55.0	-17.9	0.00	0.00	
5,000.0	0.63	261.63	4,999.5	-18.0	-56.1	-18.0	0.00	0.00	
5,044.5	0.63	261.63	5,044.0	-18.1	-56.6	-18.1	0.00	0.00	Shannon
5,100.0	0.63	261.63	5,099.5	-18.2	-57.2	-18.2	0.00	0.00	
5,200.0	0.63	261.63	5,199.5	-18.3	-58.3	-18.3	0.00	0.00	
5,300.0	0.63	261.63	5,299.5	-18.5	-59.3	-18.5	0.00	0.00	
5,400.0	0.63	261.63	5,399.4	-18.7	-60.4	-18.7	0.00	0.00	
5,500.0	0.63	261.63	5,499.4	-18.8	-61.5	-18.8	0.00	0.00	
5,600.0	0.63	261.63	5,599.4	-19.0	-62.6	-19.0	0.00	0.00	
5,700.0	0.63	261.63	5,699.4	-19.1	-63.7	-19.1	0.00	0.00	
5,800.0	0.63	261.63	5,799.4	-19.3	-64.8	-19.3	0.00	0.00	
5,900.0	0.63	261.63	5,899.4	-19.5	-65.9	-19.5	0.00	0.00	
6,000.0	0.63	261.63	5,999.4	-19.6	-67.0	-19.6	0.00	0.00	
6,100.0	0.63	261.63	6,099.4	-19.8	-68.1	-19.8	0.00	0.00	
6,200.0	0.63	261.63	6,199.4	-19.9	-69.2	-19.9	0.00	0.00	
6,300.0	0.63	261.63	6,299.4	-20.1	-70.3	-20.1	0.00	0.00	
6,400.0	0.63	261.63	6,399.4	-20.3	-71.4	-20.3	0.00	0.00	
6,500.0	0.63	261.63	6,499.4	-20.4	-72.5	-20.4	0.00	0.00	
6,500.6	0.63	261.63	6,500.0	-20.4	-72.5	-20.4	0.00	0.00	Teepee Buttes (*if present)
6,600.0	0.63	261.63	6,599.4	-20.6	-73.6	-20.6	0.00	0.00	
6,700.0	0.63	261.63	6,699.4	-20.8	-74.7	-20.8	0.00	0.00	
6,800.0	0.63	261.63	6,799.4	-20.9	-75.8	-20.9	0.00	0.00	
6,900.0	0.63	261.63	6,899.4	-21.1	-76.8	-21.1	0.00	0.00	
7,000.0	0.63	261.63	6,999.3	-21.2	-77.9	-21.2	0.00	0.00	
7,011.9	0.63	261.63	7,011.3	-21.3	-78.1	-21.3	0.00	0.00	Start build/turn @ 7011' MD
7,100.0	8.75	354.92	7,099.0	-14.6	-79.1	-14.6	10.00	9.21	
7,200.0	18.74	357.15	7,196.0	9.0	-80.6	9.0	10.00	9.99	
7,300.0	28.73	357.85	7,287.4	49.2	-82.3	49.2	10.00	10.00	
7,400.0	38.73	358.22	7,370.5	104.6	-84.2	104.6	10.00	10.00	
7,438.9	42.62	358.32	7,400.0	130.0	-85.0	130.0	10.00	10.00	Sharon Springs
7,500.0	48.73	358.45	7,442.7	173.6	-86.2	173.6	10.00	10.00	
7,520.6	50.79	358.49	7,456.0	189.4	-86.6	189.4	10.00	10.00	Niobrara
7,600.0	58.73	358.62	7,501.8	254.1	-88.3	254.1	10.00	10.00	
7,700.0	68.73	358.76	7,546.0	343.7	-90.3	343.7	10.00	10.00	
7,800.0	78.73	358.87	7,573.9	439.5	-92.3	439.5	10.00	10.00	
7,805.5	79.28	358.88	7,575.0	444.9	-92.4	444.9	10.00	10.00	B Chalk
7,900.0	88.73	358.99	7,584.9	538.8	-94.1	538.8	10.00	10.00	
7,912.7	90.00	359.00	7,585.0	551.5	-94.4	551.5	10.00	10.00	LP @ 7585' TVD; 90°
8,000.0	90.00	359.00	7,585.0	638.8	-95.9	638.8	0.00	0.00	
8,100.0	90.00	359.00	7,585.0	738.7	-97.6	738.7	0.00	0.00	
8,200.0	90.00	359.00	7,585.0	838.7	-99.4	838.7	0.00	0.00	
8,300.0	90.00	359.00	7,585.0	938.7	-101.1	938.7	0.00	0.00	
8,400.0	90.00	359.00	7,585.0	1,038.7	-102.9	1,038.7	0.00	0.00	
8,500.0	90.00	359.00	7,585.0	1,138.7	-104.6	1,138.7	0.00	0.00	
8,600.0	90.00	359.00	7,585.0	1,238.7	-106.4	1,238.7	0.00	0.00	
8,700.0	90.00	359.00	7,585.0	1,338.7	-108.1	1,338.7	0.00	0.00	
8,800.0	90.00	359.00	7,585.0	1,438.6	-109.8	1,438.6	0.00	0.00	
8,900.0	90.00	359.00	7,585.0	1,538.6	-111.6	1,538.6	0.00	0.00	
9,000.0	90.00	359.00	7,585.0	1,638.6	-113.3	1,638.6	0.00	0.00	
9,100.0	90.00	359.00	7,585.0	1,738.6	-115.1	1,738.6	0.00	0.00	
9,112.7	90.00	359.00	7,585.0	1,751.3	-115.3	1,751.3	0.00	0.00	

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Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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
9,200.0	90.00	359.00	7,585.0	1,838.6	-116.8	1,838.6	0.00	0.00	
9,212.7	90.00	359.00	7,585.0	1,851.3	-117.0	1,851.3	0.00	0.00	Start Turn -1.00
9,300.0	90.00	358.13	7,585.0	1,938.5	-119.2	1,938.5	1.00	0.00	
9,400.0	90.00	357.13	7,585.0	2,038.5	-123.4	2,038.5	1.00	0.00	
9,500.0	90.00	356.13	7,585.0	2,138.3	-129.3	2,138.3	1.00	0.00	
9,512.7	90.00	356.00	7,585.0	2,151.0	-130.1	2,151.0	1.00	0.00	End of turn @ 9512' MD
9,600.0	90.00	356.00	7,585.0	2,238.0	-136.2	2,238.0	0.00	0.00	
9,700.0	90.00	356.00	7,585.0	2,337.8	-143.2	2,337.8	0.00	0.00	
9,800.0	90.00	356.00	7,585.0	2,437.6	-150.2	2,437.6	0.00	0.00	
9,900.0	90.00	356.00	7,585.0	2,537.3	-157.1	2,537.3	0.00	0.00	
10,000.0	90.00	356.00	7,585.0	2,637.1	-164.1	2,637.1	0.00	0.00	
10,100.0	90.00	356.00	7,585.0	2,736.8	-171.1	2,736.8	0.00	0.00	
10,200.0	90.00	356.00	7,585.0	2,836.6	-178.1	2,836.6	0.00	0.00	
10,300.0	90.00	356.00	7,585.0	2,936.3	-185.0	2,936.3	0.00	0.00	
10,400.0	90.00	356.00	7,585.0	3,036.1	-192.0	3,036.1	0.00	0.00	
10,500.0	90.00	356.00	7,585.0	3,135.9	-199.0	3,135.9	0.00	0.00	
10,600.0	90.00	356.00	7,585.0	3,235.6	-206.0	3,235.6	0.00	0.00	
10,700.0	90.00	356.00	7,585.0	3,335.4	-212.9	3,335.4	0.00	0.00	
10,712.7	90.00	356.00	7,585.0	3,348.0	-213.8	3,348.0	0.00	0.00	Start turn @ 10712' MD
10,800.0	90.00	356.87	7,585.0	3,435.2	-219.3	3,435.2	1.00	0.00	
10,900.0	90.00	357.87	7,585.0	3,535.1	-223.8	3,535.1	1.00	0.00	
11,000.0	90.00	358.87	7,585.0	3,635.0	-226.7	3,635.0	1.00	0.00	
11,100.0	90.00	359.87	7,585.0	3,735.0	-227.8	3,735.0	1.00	0.00	
11,110.0	90.00	359.97	7,585.0	3,745.0	-227.8	3,745.0	1.00	0.00	End of turn @ 11110' MD
11,200.0	90.00	359.97	7,585.0	3,835.0	-227.8	3,835.0	0.00	0.00	
11,300.0	90.00	359.97	7,585.0	3,935.0	-227.9	3,935.0	0.00	0.00	
11,400.0	90.00	359.97	7,585.0	4,035.0	-227.9	4,035.0	0.00	0.00	
11,500.0	90.00	359.97	7,585.0	4,135.0	-228.0	4,135.0	0.00	0.00	
11,600.0	90.00	359.97	7,585.0	4,235.0	-228.0	4,235.0	0.00	0.00	
11,700.0	90.00	359.97	7,585.0	4,335.0	-228.1	4,335.0	0.00	0.00	
11,800.0	90.00	359.97	7,585.0	4,435.0	-228.1	4,435.0	0.00	0.00	
11,900.0	90.00	359.97	7,585.0	4,535.0	-228.2	4,535.0	0.00	0.00	
12,000.0	90.00	359.97	7,585.0	4,635.0	-228.2	4,635.0	0.00	0.00	
12,100.0	90.00	359.97	7,585.0	4,735.0	-228.3	4,735.0	0.00	0.00	
12,200.0	90.00	359.97	7,585.0	4,835.0	-228.3	4,835.0	0.00	0.00	
12,300.0	90.00	359.97	7,585.0	4,935.0	-228.4	4,935.0	0.00	0.00	
12,400.0	90.00	359.97	7,585.0	5,035.0	-228.4	5,035.0	0.00	0.00	
12,500.0	90.00	359.97	7,585.0	5,135.0	-228.5	5,135.0	0.00	0.00	
12,600.0	90.00	359.97	7,585.0	5,235.0	-228.5	5,235.0	0.00	0.00	
12,700.0	90.00	359.97	7,585.0	5,335.0	-228.6	5,335.0	0.00	0.00	
12,800.0	90.00	359.97	7,585.0	5,435.0	-228.6	5,435.0	0.00	0.00	
12,900.0	90.00	359.97	7,585.0	5,535.0	-228.7	5,535.0	0.00	0.00	
13,000.0	90.00	359.97	7,585.0	5,635.0	-228.7	5,635.0	0.00	0.00	
13,100.0	90.00	359.97	7,585.0	5,735.0	-228.8	5,735.0	0.00	0.00	
13,200.0	90.00	359.97	7,585.0	5,835.0	-228.8	5,835.0	0.00	0.00	
13,300.0	90.00	359.97	7,585.0	5,935.0	-228.9	5,935.0	0.00	0.00	
13,400.0	90.00	359.97	7,585.0	6,035.0	-228.9	6,035.0	0.00	0.00	
13,500.0	90.00	359.97	7,585.0	6,135.0	-228.9	6,135.0	0.00	0.00	
13,600.0	90.00	359.97	7,585.0	6,235.0	-229.0	6,235.0	0.00	0.00	
13,700.0	90.00	359.97	7,585.0	6,335.0	-229.0	6,335.0	0.00	0.00	
13,800.0	90.00	359.97	7,585.0	6,435.0	-229.1	6,435.0	0.00	0.00	
13,900.0	90.00	359.97	7,585.0	6,535.0	-229.1	6,535.0	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	North Reference:	True
Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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
14,000.0	90.00	359.97	7,585.0	6,635.0	-229.2	6,635.0	0.00	0.00	
14,100.0	90.00	359.97	7,585.0	6,735.0	-229.2	6,735.0	0.00	0.00	
14,200.0	90.00	359.97	7,585.0	6,835.0	-229.3	6,835.0	0.00	0.00	
14,300.0	90.00	359.97	7,585.0	6,935.0	-229.3	6,935.0	0.00	0.00	
14,400.0	90.00	359.97	7,585.0	7,035.0	-229.4	7,035.0	0.00	0.00	
14,500.0	90.00	359.97	7,585.0	7,135.0	-229.4	7,135.0	0.00	0.00	
14,508.5	90.00	359.97	7,585.0	7,143.5	-229.4	7,143.5	0.00	0.00	TD at 14508.5

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
- Shape									Latitude Longitude
Woolley-Becky 2B-7H-E	- plan hits target center	0.00	0.00	7,585.0	1,751.3	-115.3	1,269,208.85	3,124,976.59	40.071498 -105.053452
- Point									
Woolley-Becky 2B-7H-E	- plan hits target center	0.00	0.00	7,585.0	7,143.5	-229.4	1,274,600.38	3,124,835.28	40.086300 -105.053860
- Point									

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
420.0	420.0	Fox Hills - BASE				
4,471.5	4,471.0	Sussex				
4,760.5	4,760.0	Sussex Marker				
5,044.5	5,044.0	Shannon				
6,500.6	6,500.0	Teepee Buttes (*if present)				
7,438.9	7,400.0	Sharon Springs				
7,520.6	7,456.0	Niobrara				
7,805.5	7,575.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Local Coordinates	
				Comment	
300.0	300.0	0.0	0.0	KOP @ 300'	
600.0	599.9	-6.0	-5.0	EOB; Inc=3°	
856.1	855.9	-11.4	-10.8	EOD; Inc=.6°	
7,011.9	7,011.3	-21.3	-78.1	Start build/turn @ 7011' MD	
7,912.7	7,585.0	551.5	-94.4	LP @ 7585' TVD; 90°	
9,212.7	7,585.0	1,751.3	-115.3	Start Turn -1.00	
9,512.7	7,585.0	1,851.3	-117.0	End of turn @ 9512' MD	
10,712.7	7,585.0	2,151.0	-130.1	Start turn @ 10712' MD	
11,110.0	7,585.0	3,348.1	-213.8	End of turn @ 11110' MD	
14,508.5	7,585.0	3,745.0	-227.8	TD at 14508.5	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2B-7H-E168

Hz

Plan #1

Anticollision Report

28 June, 2013

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
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 center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	6/28/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	14,508.5	Plan #1 (Hz)	Geolink MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	10,993.4	7,802.9	413.0	332.8	5.152	CC
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,000.0	7,802.8	413.0	332.8	5.145	ES, SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVEY	11,652.9	7,675.6	149.3	54.7	1.578	CC, ES, SF
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVEY	10,319.3	7,722.8	71.5	-1.4	0.981	Level 1, CC, ES, SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - NO SUR						Out of range
BEARDEN 24-6 (EXISTING) - ENCANA WELL - PLAN ON						Out of range
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O						Out of range
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE						Out of range
BECKY 1 (EXISTING) - FOUNDATION WELL - NO SURV						Out of range
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS						Out of range
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURVE	12,955.4	7,529.0	218.1	104.3	1.917	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SUR	14,308.0	7,520.0	218.1	80.9	1.589	CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS						Out of range
BILLINGS 21-7 (EXISTING) - KPK WELL - SURVEYS						Out of range
Sosa 11-18 - DD - DD						Out of range
Sosa 11-18 - DD - Plan #1						Out of range
Sosa 12-18 - DD - DD						Out of range
Sosa 12-18 - DD - Plan #3						Out of range
Sosa 21-18 - DD (Gyro) - DD						Out of range
Sosa 21-18 - DD (MWD) - DD						Out of range
Sosa 21-18 - DD (MWD) - Plan #2						Out of range
Sosa 22-18 - DD - DD						Out of range
Sosa 22-18 - DD - Plan #2						Out of range
Sosa A #1 (Existing) - DD - DD						Out of range
THOMAS 14-7 (EXISTING) - EXISTING - NO SURVEY						Out of range
THOMAS 24-7 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
THOMAS 24-7 (Existing) - Existing - NO SURVEYS						Out of range
THOMAS 2-8-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS						Out of range
Thomas 7-14 (Existing) - Existing - NO SURVEYS						Out of range
THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY						Out of range
THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURVE						Out of range
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEY	9,069.0	7,784.6	60.9	13.2	1.277	Level 3, CC, ES, SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	7,526.6	7,534.8	109.5	82.7	4.087	CC, ES, SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SUR						Out of range
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEY						Out of range
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - NO						Out of range
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	200.0	200.0	9.2	8.6	15.040	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #1	14,508.5	14,759.2	441.0	222.4	2.018	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #1	508.2	509.1	6.8	5.1	4.030	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #1	14,508.5	14,748.7	430.9	213.7	1.983	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #1	300.0	301.0	8.4	7.4	8.731	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #1	500.0	501.0	11.0	9.3	6.605	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #1	300.0	301.0	26.2	25.3	27.267	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #1	600.0	600.0	33.8	31.7	16.741	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #1	266.0	268.0	28.0	27.1	33.134	CC
Woolley-Becky 2F-7H-E168 - Hz - Plan #1	300.0	302.0	28.0	27.0	29.051	ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #1	500.0	500.8	33.9	32.2	20.385	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	230.6	232.6	34.4	33.6	47.664	CC

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth	Offset Measured Depth	Distance		Separation	Warning
Offset Well - Wellbore - Design	(ft)	(ft)	Between Centres	Between Ellipses	Factor	
S7-T1N-R68W (Woolley-Sosa/Becky)						
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	300.0	301.7	34.6	33.6	35.934	ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #1	600.0	599.1	49.3	47.3	24.453	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	166.0	168.0	39.2	38.7	79.058	CC
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	200.0	202.0	39.2	38.6	63.782	ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #1	600.0	598.1	58.5	56.5	29.093	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	200.0	199.0	72.8	72.2	119.511	CC, ES
Woolley-Sosa 2A-7H-E168 - Hz - Plan #1	1,500.0	1,487.0	155.0	149.8	29.807	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	612.0	609.4	65.4	63.4	31.576	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #1	7,800.0	7,623.3	149.8	118.8	4.841	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	847.9	846.5	51.1	48.1	17.355	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #1	7,800.0	7,620.8	205.5	174.5	6.641	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	1,020.3	1,019.4	41.2	37.6	11.532	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #1	1,100.0	1,098.6	42.0	38.2	10.850	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #1	1,460.5	1,459.6	18.6	13.5	3.662	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #1	1,500.0	1,498.9	18.9	13.7	3.633	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	776.1	775.4	20.7	18.0	7.642	CC, ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #1	800.0	799.2	20.8	18.0	7.441	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	692.5	692.0	10.4	7.9	4.259	CC, ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #1	700.0	699.4	10.4	7.9	4.223	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:												46-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis				Distance						Warning			
Measured Depth	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)							
10,800.0	7,585.0	7,803.6	7,559.3	63.4	31.0	-90.46	3,619.8	-639.4	459.0	382.1	76.86	5.972					
10,900.0	7,585.0	7,803.2	7,558.9	65.1	31.0	-90.41	3,619.8	-639.4	424.2	345.6	78.57	5.399					
10,993.4	7,585.0	7,802.9	7,558.6	66.7	31.0	-90.36	3,619.8	-639.4	413.0	332.8	80.16	5.152 CC					
11,000.0	7,585.0	7,802.8	7,558.6	66.8	31.0	-90.36	3,619.8	-639.4	413.0	332.8	80.28	5.145 ES, SF					
11,100.0	7,585.0	7,802.5	7,558.2	68.6	31.0	-90.31	3,619.8	-639.4	427.5	345.5	81.98	5.214					
11,200.0	7,585.0	7,802.1	7,557.8	70.3	31.0	-90.26	3,619.8	-639.4	464.5	380.8	83.71	5.549					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 765-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
11,200.0	7,585.0	7,663.5	7,545.4	70.3	24.2	85.57	4,287.7	-78.7	476.7	390.3	86.43	5.515	
11,300.0	7,585.0	7,666.3	7,548.2	72.0	24.2	86.64	4,287.7	-78.7	383.0	294.8	88.28	4.339	
11,400.0	7,585.0	7,669.0	7,550.9	73.7	24.2	87.67	4,287.8	-78.7	293.6	203.5	90.10	3.259	
11,500.0	7,585.0	7,671.7	7,553.6	75.4	24.2	88.68	4,287.9	-78.7	213.6	121.8	91.89	2.325	
11,600.0	7,585.0	7,674.2	7,556.1	77.2	24.2	89.67	4,287.9	-78.8	158.4	64.7	93.66	1.691	
11,652.9	7,585.0	7,675.6	7,557.5	78.1	24.2	90.17	4,287.9	-78.8	149.3	54.7	94.59	1.578 CC, ES, SF	
11,700.0	7,585.0	7,676.7	7,558.6	78.9	24.2	90.62	4,288.0	-78.8	156.6	61.1	95.41	1.641	
11,800.0	7,585.0	7,679.2	7,561.0	80.6	24.2	91.55	4,288.0	-78.8	209.6	112.5	97.13	2.158	
11,900.0	7,585.0	7,681.5	7,563.4	82.4	24.2	92.45	4,288.1	-78.8	288.7	189.8	98.83	2.921	
12,000.0	7,585.0	7,683.8	7,565.7	84.1	24.2	93.33	4,288.1	-78.8	377.8	277.3	100.51	3.759	
12,100.0	7,585.0	7,686.0	7,567.9	85.8	24.2	94.18	4,288.2	-78.8	471.3	369.1	102.17	4.613	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 797-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,900.0	7,585.0	7,715.3	7,549.7	48.0	25.7	84.16	2,960.4	-115.0	425.3	359.9	65.33	6.509		
10,000.0	7,585.0	7,717.1	7,551.5	49.7	25.7	85.60	2,960.5	-115.0	327.1	260.0	67.18	4.870		
10,100.0	7,585.0	7,718.9	7,553.3	51.4	25.7	87.04	2,960.5	-115.1	230.6	161.6	69.00	3.342		
10,200.0	7,585.0	7,720.7	7,555.1	53.1	25.7	88.47	2,960.5	-115.1	139.0	68.3	70.79	1.964		
10,300.0	7,585.0	7,722.4	7,556.9	54.8	25.7	89.89	2,960.5	-115.1	74.0	1.5	72.54	1.021 Level 2		
10,319.3	7,585.0	7,722.8	7,557.2	55.1	25.7	90.16	2,960.6	-115.1	71.5	-1.4	72.88	0.981 Level 1, CC, ES, SF		
10,400.0	7,585.0	7,724.2	7,558.6	56.5	25.7	91.30	2,960.6	-115.1	107.8	33.6	74.26	1.452 Level 3		
10,500.0	7,585.0	7,726.0	7,560.4	58.2	25.7	92.71	2,960.6	-115.1	194.3	118.4	75.94	2.559		
10,600.0	7,585.0	7,727.7	7,562.1	60.0	25.7	94.10	2,960.6	-115.1	289.6	212.1	77.58	3.734		
10,700.0	7,585.0	7,729.4	7,563.9	61.7	25.7	95.48	2,960.7	-115.1	387.3	308.2	79.17	4.892		
10,800.0	7,585.0	7,731.1	7,565.6	63.4	25.7	96.26	2,960.7	-115.1	485.8	404.9	80.98	6.000		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:													8200-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation Factor						
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis							
12,600.0	7,585.0	7,529.0	7,529.0	94.5	13.1	90.00	5,590.6	-10.6	417.0	309.5	107.55	3.877						
12,700.0	7,585.0	7,529.0	7,529.0	96.2	13.1	90.00	5,590.6	-10.6	335.9	226.6	109.29	3.073						
12,800.0	7,585.0	7,529.0	7,529.0	98.0	13.1	90.00	5,590.6	-10.6	267.8	156.8	111.03	2.412						
12,900.0	7,585.0	7,529.0	7,529.0	99.7	13.1	90.00	5,590.6	-10.6	225.0	112.2	112.77	1.995						
12,955.4	7,585.0	7,529.0	7,529.0	100.7	13.1	90.00	5,590.6	-10.6	218.1	104.3	113.73	1.917	CC, ES, SF					
13,000.0	7,585.0	7,529.0	7,529.0	101.4	13.1	90.00	5,590.6	-10.6	222.6	108.1	114.50	1.944						
13,100.0	7,585.0	7,529.0	7,529.0	103.2	13.1	90.00	5,590.6	-10.6	261.6	145.4	116.24	2.251						
13,200.0	7,585.0	7,529.0	7,529.0	104.9	13.1	90.00	5,590.6	-10.6	327.6	209.7	117.98	2.777						
13,300.0	7,585.0	7,529.0	7,529.0	106.7	13.1	90.00	5,590.6	-10.6	407.8	288.0	119.73	3.406						
13,400.0	7,585.0	7,529.0	7,529.0	108.4	13.1	90.00	5,590.6	-10.6	495.1	373.7	121.47	4.076						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												S7-T1N-R68W (Woolley-Sosa/Becky) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SURVEYS		Offset Site Error:		0.0 ft	
Survey Program:												7771-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis		Distance											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation		Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor					
13,900.0	7,585.0	7,520.0	7,520.0	117.1	13.1	90.00	6,943.1	-11.2	462.7	332.5	130.16	3.555					
14,000.0	7,585.0	7,520.0	7,520.0	118.8	13.1	90.00	6,943.1	-11.2	377.4	245.5	131.91	2.861					
14,100.0	7,585.0	7,520.0	7,520.0	120.6	13.1	90.00	6,943.1	-11.2	301.4	167.8	133.65	2.255					
14,200.0	7,585.0	7,520.0	7,520.0	122.3	13.1	90.00	6,943.1	-11.2	243.4	108.0	135.39	1.798					
14,300.0	7,585.0	7,520.0	7,520.0	124.1	13.1	90.00	6,943.1	-11.2	218.3	81.2	137.14	1.592					
14,308.0	7,585.0	7,520.0	7,520.0	124.2	13.1	90.00	6,943.1	-11.2	218.1	80.9	137.28	1.589	CC, ES, SF				
14,400.0	7,585.0	7,520.0	7,520.0	125.8	13.1	90.00	6,943.1	-11.2	236.7	97.9	138.88	1.705					
14,500.0	7,585.0	7,520.0	7,520.0	127.6	13.1	90.00	6,943.1	-11.2	290.6	150.0	140.63	2.066					
14,508.5	7,585.0	7,520.0	7,520.0	127.7	13.1	90.00	6,943.1	-11.2	296.3	155.5	140.78	2.105					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,600.0	7,585.0	7,768.8	7,608.5	26.7	26.2	-75.75	1,706.0	-175.5	472.6	433.0	39.60	11.936	
8,700.0	7,585.0	7,771.9	7,611.7	28.3	26.2	-78.56	1,706.1	-175.4	373.8	332.4	41.40	9.029	
8,800.0	7,585.0	7,775.2	7,614.9	29.8	26.2	-81.52	1,706.2	-175.4	275.6	232.4	43.18	6.383	
8,900.0	7,585.0	7,778.6	7,618.3	31.4	26.2	-84.65	1,706.3	-175.4	179.5	134.6	44.92	3.996	
9,000.0	7,585.0	7,782.1	7,621.8	33.0	26.2	-87.93	1,706.4	-175.4	92.0	45.4	46.59	1.974	
9,069.0	7,585.0	7,784.6	7,624.3	34.2	26.2	-90.28	1,706.5	-175.4	60.9	13.2	47.68	1.277	Level 3, CC, ES, SF
9,100.0	7,585.0	7,785.7	7,625.4	34.7	26.2	-91.35	1,706.6	-175.4	68.3	20.2	48.15	1.419	Level 3
9,200.0	7,585.0	7,789.5	7,629.2	36.3	26.2	-94.90	1,706.7	-175.4	144.4	94.8	49.56	2.913	
9,300.0	7,585.0	7,793.4	7,633.1	37.9	26.2	-98.17	1,706.9	-175.4	238.6	187.7	50.90	4.687	
9,400.0	7,585.0	7,797.5	7,637.2	39.6	26.2	-100.92	1,707.0	-175.3	335.7	283.6	52.18	6.434	
9,500.0	7,585.0	7,801.7	7,641.5	41.3	26.2	-103.09	1,707.2	-175.3	433.9	380.4	53.48	8.114	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	75.0	75.0	0.0	0.1	-45.73	191.2	-196.2	274.0					
100.0	100.0	175.0	175.0	0.1	0.3	-45.73	191.2	-196.2	274.0	273.5	0.44	627.637		
200.0	200.0	275.0	275.0	0.3	0.5	-45.73	191.2	-196.2	274.0	273.2	0.79	348.758		
300.0	300.0	375.0	375.0	0.5	0.7	-45.73	191.2	-196.2	274.0	272.8	1.13	241.467		
400.0	400.0	475.0	475.0	0.7	0.8	94.45	191.2	-196.2	274.0	272.6	1.48	184.617		
500.0	500.0	575.0	575.0	0.8	1.0	94.99	191.2	-196.2	274.3	272.4	1.84	149.243		
600.0	599.9	674.9	674.9	1.0	1.2	95.89	191.2	-196.2	274.7	272.5	2.20	124.971		
700.0	699.8	774.8	774.8	1.2	1.4	92.14	191.2	-196.2	275.0	272.5	2.56	107.627		
800.0	799.7	874.7	874.7	1.4	1.5	79.63	191.2	-196.2	274.9	272.0	2.91	94.566		
900.0	899.7	974.7	974.7	1.6	1.7	55.98	191.2	-196.2	274.4	271.1	3.26	84.270		
1,000.0	999.7	1,074.7	1,074.7	1.7	1.9	56.17	191.2	-196.2	273.8	270.2	3.61	75.940		
1,100.0	1,099.7	1,174.7	1,174.7	1.9	2.1	56.37	191.2	-196.2	273.1	269.2	3.95	69.078		
1,200.0	1,199.7	1,274.7	1,274.7	2.1	2.2	56.56	191.2	-196.2	272.5	268.2	4.30	63.329		
1,300.0	1,299.7	1,374.7	1,374.7	2.3	2.4	56.75	191.2	-196.2	271.9	267.3	4.65	58.443		
1,400.0	1,399.7	1,474.7	1,474.7	2.4	2.6	56.95	191.2	-196.2	271.3	266.3	5.00	54.240		
1,500.0	1,499.7	1,574.7	1,574.7	2.6	2.7	57.15	191.2	-196.2	270.7	265.4	5.35	50.585		
1,600.0	1,599.7	1,674.7	1,674.7	2.8	2.9	57.34	191.2	-196.2	270.1	264.4	5.70	47.379		
1,700.0	1,699.7	1,774.7	1,774.7	3.0	3.1	57.54	191.2	-196.2	269.5	263.5	6.05	44.543		
1,800.0	1,799.7	1,874.7	1,874.7	3.1	3.3	57.74	191.2	-196.2	268.9	262.5	6.40	42.018		
1,900.0	1,899.7	1,974.7	1,974.7	3.3	3.4	57.94	191.2	-196.2	268.4	261.6	6.75	39.754		
2,000.0	1,999.7	2,074.7	2,074.7	3.5	3.6	58.14	191.2	-196.2	267.8	260.7	7.10	37.713		
2,100.0	2,099.6	2,174.6	2,174.6	3.7	3.8	58.34	191.2	-196.2	267.2	259.7	7.45	35.865		
2,200.0	2,199.6	2,274.6	2,274.6	3.8	4.0	58.54	191.2	-196.2	266.6	258.8	7.80	34.183		
2,300.0	2,299.6	2,374.6	2,374.6	4.0	4.1	58.75	191.2	-196.2	266.0	257.9	8.15	32.645		
2,400.0	2,399.6	2,474.6	2,474.6	4.2	4.3	58.95	191.2	-196.2	265.5	257.0	8.50	31.234		
2,500.0	2,499.6	2,574.6	2,574.6	4.4	4.5	59.15	191.2	-196.2	264.9	256.0	8.85	29.935		
2,600.0	2,599.6	2,674.6	2,674.6	4.5	4.7	59.36	191.2	-196.2	264.3	255.1	9.20	28.735		
2,700.0	2,699.6	2,774.6	2,774.6	4.7	4.8	59.57	191.2	-196.2	263.8	254.2	9.55	27.624		
2,800.0	2,799.6	2,874.6	2,874.6	4.9	5.0	59.77	191.2	-196.2	263.2	253.3	9.90	26.591		
2,900.0	2,899.6	2,974.6	2,974.6	5.1	5.2	59.98	191.2	-196.2	262.7	252.4	10.25	25.629		
3,000.0	2,999.6	3,074.6	3,074.6	5.2	5.4	60.19	191.2	-196.2	262.1	251.5	10.60	24.731		
3,100.0	3,099.6	3,174.6	3,174.6	5.4	5.5	60.40	191.2	-196.2	261.6	250.6	10.95	23.891		
3,200.0	3,199.6	3,274.6	3,274.6	5.6	5.7	60.61	191.2	-196.2	261.0	249.7	11.30	23.103		
3,300.0	3,299.6	3,374.6	3,374.6	5.8	5.9	60.82	191.2	-196.2	260.5	248.8	11.65	22.362		
3,400.0	3,399.6	3,474.6	3,474.6	5.9	6.1	61.04	191.2	-196.2	259.9	247.9	12.00	21.665		
3,500.0	3,499.6	3,574.6	3,574.6	6.1	6.2	61.25	191.2	-196.2	259.4	247.1	12.35	21.008		
3,600.0	3,599.6	3,674.6	3,674.6	6.3	6.4	61.47	191.2	-196.2	258.9	246.2	12.70	20.388		
3,700.0	3,699.5	3,774.5	3,774.5	6.5	6.6	61.68	191.2	-196.2	258.3	245.3	13.05	19.800		
3,800.0	3,799.5	3,874.5	3,874.5	6.6	6.8	61.90	191.2	-196.2	257.8	244.4	13.40	19.244		
3,900.0	3,899.5	3,974.5	3,974.5	6.8	6.9	62.11	191.2	-196.2	257.3	243.6	13.75	18.717		
4,000.0	3,999.5	4,074.5	4,074.5	7.0	7.1	62.33	191.2	-196.2	256.8	242.7	14.10	18.215		
4,100.0	4,099.5	4,174.5	4,174.5	7.2	7.3	62.55	191.2	-196.2	256.3	241.8	14.45	17.739		
4,200.0	4,199.5	4,274.5	4,274.5	7.3	7.5	62.77	191.2	-196.2	255.8	241.0	14.80	17.285		
4,300.0	4,299.5	4,374.5	4,374.5	7.5	7.6	62.99	191.2	-196.2	255.3	240.1	15.15	16.852		
4,400.0	4,399.5	4,474.5	4,474.5	7.7	7.8	63.21	191.2	-196.2	254.8	239.3	15.50	16.440		
4,500.0	4,499.5	4,574.5	4,574.5	7.9	8.0	63.43	191.2	-196.2	254.3	238.4	15.85	16.045		
4,600.0	4,599.5	4,674.5	4,674.5	8.0	8.2	63.66	191.2	-196.2	253.8	237.6	16.20	15.668		
4,700.0	4,699.5	4,774.5	4,774.5	8.2	8.3	63.88	191.2	-196.2	253.3	236.7	16.55	15.307		
4,800.0	4,799.5	4,874.5	4,874.5	8.4	8.5	64.11	191.2	-196.2	252.8	235.9	16.90	14.961		
4,900.0	4,899.5	4,974.5	4,974.5	8.6	8.7	64.33	191.2	-196.2	252.3	235.1	17.25	14.630		
5,000.0	4,999.5	5,074.5	5,074.5	8.7	8.9	64.56	191.2	-196.2	251.8	234.2	17.60	14.312		
5,100.0	5,099.5	5,174.5	5,174.5	8.9	9.0	64.79	191.2	-196.2	251.4	233.4	17.95	14.006		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 8325-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			
5,200.0	5,199.5	5,274.5	5,274.5	9.1	9.2	65.02	191.2	-196.2	250.9	232.6	18.30	13.713		
5,300.0	5,299.5	5,374.5	5,374.5	9.3	9.4	65.24	191.2	-196.2	250.4	231.8	18.65	13.430		
5,400.0	5,399.4	5,474.4	5,474.4	9.4	9.6	65.47	191.2	-196.2	250.0	231.0	19.00	13.159		
5,500.0	5,499.4	5,574.4	5,574.4	9.6	9.7	65.71	191.2	-196.2	249.5	230.2	19.35	12.897		
5,600.0	5,599.4	5,674.4	5,674.4	9.8	9.9	65.94	191.2	-196.2	249.1	229.4	19.70	12.645		
5,700.0	5,699.4	5,774.4	5,774.4	10.0	10.1	66.17	191.2	-196.2	248.6	228.6	20.05	12.402		
5,800.0	5,799.4	5,874.4	5,874.4	10.1	10.3	66.40	191.2	-196.2	248.2	227.8	20.40	12.167		
5,900.0	5,899.4	5,974.4	5,974.4	10.3	10.4	66.64	191.2	-196.2	247.7	227.0	20.75	11.940		
6,000.0	5,999.4	6,074.4	6,074.4	10.5	10.6	66.87	191.2	-196.2	247.3	226.2	21.10	11.722		
6,100.0	6,099.4	6,174.4	6,174.4	10.7	10.8	67.11	191.2	-196.2	246.9	225.4	21.45	11.510		
6,200.0	6,199.4	6,274.4	6,274.4	10.9	11.0	67.35	191.2	-196.2	246.4	224.6	21.80	11.306		
6,300.0	6,299.4	6,374.4	6,374.4	11.0	11.1	67.58	191.2	-196.2	246.0	223.9	22.15	11.108		
6,400.0	6,399.4	6,474.4	6,474.4	11.2	11.3	67.82	191.2	-196.2	245.6	223.1	22.50	10.916		
6,500.0	6,499.4	6,574.4	6,574.4	11.4	11.5	68.06	191.2	-196.2	245.2	222.3	22.85	10.731		
6,600.0	6,599.4	6,674.4	6,674.4	11.6	11.6	68.30	191.2	-196.2	244.8	221.6	23.20	10.551		
6,700.0	6,699.4	6,774.4	6,774.4	11.7	11.8	68.54	191.2	-196.2	244.4	220.8	23.55	10.377		
6,800.0	6,799.4	6,874.4	6,874.4	11.9	12.0	68.78	191.2	-196.2	244.0	220.1	23.90	10.208		
6,900.0	6,899.4	6,974.4	6,974.4	12.1	12.2	69.02	191.2	-196.2	243.6	219.3	24.25	10.044		
7,000.0	6,999.3	7,074.3	7,074.3	12.3	12.3	69.27	191.2	-196.2	243.2	218.6	24.60	9.885		
7,100.0	7,099.0	7,174.0	7,174.0	12.4	12.5	-24.79	191.2	-196.2	236.8	212.0	24.78	9.557		
7,200.0	7,196.0	7,271.0	7,271.0	12.6	12.7	-30.89	191.2	-196.2	215.8	191.2	24.62	8.766		
7,300.0	7,287.4	7,362.4	7,362.4	12.8	12.8	-40.23	191.2	-196.2	182.0	157.6	24.41	7.459		
7,400.0	7,370.5	7,445.5	7,445.5	13.1	13.0	-57.26	191.2	-196.2	141.6	116.6	24.96	5.673		
7,500.0	7,442.7	7,517.7	7,517.7	13.6	13.1	-82.93	191.2	-196.2	111.4	84.9	26.50	4.203		
7,526.6	7,459.8	7,534.8	7,534.8	13.7	13.2	-89.98	191.2	-196.2	109.5	82.7	26.79	4.087	CC, ES, SF	
7,600.0	7,501.8	7,576.8	7,576.8	14.1	13.2	-105.96	191.2	-196.2	124.9	98.1	26.82	4.658		
7,700.0	7,546.0	7,621.0	7,621.0	14.9	13.3	-116.51	191.2	-196.2	185.6	159.1	26.47	7.013		
7,800.0	7,573.9	7,648.9	7,648.9	15.9	13.3	-113.87	191.2	-196.2	269.1	241.6	27.52	9.778		
7,900.0	7,584.9	7,659.9	7,659.9	17.0	13.4	-94.06	191.2	-196.2	362.2	332.0	30.22	11.985		
8,000.0	7,585.0	7,660.0	7,660.0	18.2	13.4	-90.00	191.2	-196.2	458.6	427.1	31.49	14.566		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2A-7H-E168 - Hz - Plan #1													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	-142.46	-7.3	-5.6	9.2					
100.0	100.0	100.0	100.0	0.1	0.1	-142.46	-7.3	-5.6	9.2	8.9	0.26	35.094		
200.0	200.0	200.0	200.0	0.3	0.3	-142.46	-7.3	-5.6	9.2	8.6	0.61	15.040	CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	-140.56	-7.7	-6.4	10.0	9.0	0.96	10.411		
400.0	400.0	399.6	399.6	0.7	0.7	3.92	-9.0	-8.6	11.6	10.3	1.31	8.869		
500.0	500.0	499.4	499.3	0.8	0.8	9.91	-11.2	-12.4	13.3	11.6	1.66	7.996		
600.0	599.9	599.1	598.8	1.0	1.0	16.81	-14.2	-17.6	15.1	13.1	2.01	7.509		
700.0	699.8	699.2	698.6	1.2	1.2	19.62	-16.9	-23.8	17.6	15.2	2.36	7.448		
800.0	799.7	799.2	798.4	1.4	1.4	13.65	-17.8	-30.1	21.2	18.5	2.71	7.831		
900.0	899.7	899.0	898.1	1.6	1.6	-6.35	-18.1	-36.5	26.1	23.1	3.06	8.540		
1,000.0	999.7	998.9	997.7	1.7	1.9	-4.07	-18.3	-42.8	31.3	27.9	3.41	9.183		
1,100.0	1,099.7	1,098.8	1,097.4	1.9	2.1	-2.45	-18.6	-49.2	36.5	32.8	3.76	9.716		
1,200.0	1,199.7	1,198.6	1,197.1	2.1	2.3	-1.23	-18.9	-55.6	41.7	37.6	4.11	10.165		
1,300.0	1,299.7	1,298.5	1,296.7	2.3	2.5	-0.28	-19.1	-62.0	47.0	42.5	4.45	10.547		
1,400.0	1,399.7	1,398.3	1,396.4	2.4	2.7	0.48	-19.4	-68.3	52.2	47.4	4.80	10.875		
1,500.0	1,499.7	1,498.2	1,496.0	2.6	2.9	1.10	-19.6	-74.7	57.5	52.3	5.15	11.160		
1,600.0	1,599.7	1,598.1	1,595.7	2.8	3.1	1.61	-19.9	-81.1	62.8	57.3	5.50	11.411		
1,700.0	1,699.7	1,697.9	1,695.3	3.0	3.3	2.05	-20.2	-87.5	68.0	62.2	5.85	11.632		
1,800.0	1,799.7	1,797.8	1,795.0	3.1	3.5	2.42	-20.4	-93.8	73.3	67.1	6.20	11.828		
1,900.0	1,899.7	1,897.6	1,894.6	3.3	3.7	2.74	-20.7	-100.2	78.6	72.0	6.55	12.005		
2,000.0	1,999.7	1,997.5	1,994.3	3.5	3.9	3.03	-21.0	-106.6	83.9	77.0	6.90	12.163		
2,100.0	2,099.6	2,097.4	2,094.0	3.7	4.1	3.27	-21.2	-113.0	89.2	81.9	7.24	12.307		
2,200.0	2,199.6	2,197.2	2,193.6	3.8	4.3	3.50	-21.5	-119.4	94.4	86.8	7.59	12.438		
2,300.0	2,299.6	2,297.1	2,293.3	4.0	4.5	3.69	-21.8	-125.7	99.7	91.8	7.94	12.557		
2,400.0	2,399.6	2,396.9	2,392.9	4.2	4.7	3.87	-22.0	-132.1	105.0	96.7	8.29	12.666		
2,500.0	2,499.6	2,496.8	2,492.6	4.4	4.9	4.03	-22.3	-138.5	110.3	101.7	8.64	12.767		
2,600.0	2,599.6	2,596.7	2,592.2	4.5	5.1	4.18	-22.6	-144.9	115.6	106.6	8.99	12.860		
2,700.0	2,699.6	2,696.5	2,691.9	4.7	5.3	4.31	-22.8	-151.2	120.9	111.5	9.34	12.946		
2,800.0	2,799.6	2,796.4	2,791.5	4.9	5.6	4.43	-23.1	-157.6	126.2	116.5	9.68	13.026		
2,900.0	2,899.6	2,896.2	2,891.2	5.1	5.8	4.54	-23.4	-164.0	131.4	121.4	10.03	13.100		
3,000.0	2,999.6	2,996.1	2,990.9	5.2	6.0	4.65	-23.6	-170.4	136.7	126.4	10.38	13.170		
3,100.0	3,099.6	3,096.0	3,090.5	5.4	6.2	4.74	-23.9	-176.7	142.0	131.3	10.73	13.235		
3,200.0	3,199.6	3,195.8	3,190.2	5.6	6.4	4.83	-24.2	-183.1	147.3	136.2	11.08	13.296		
3,300.0	3,299.6	3,295.7	3,289.8	5.8	6.6	4.91	-24.4	-189.5	152.6	141.2	11.43	13.353		
3,400.0	3,399.6	3,395.5	3,389.5	5.9	6.8	4.99	-24.7	-195.9	157.9	146.1	11.78	13.407		
3,500.0	3,499.6	3,495.4	3,489.1	6.1	7.0	5.06	-25.0	-202.2	163.2	151.1	12.13	13.457		
3,600.0	3,599.6	3,595.3	3,588.8	6.3	7.2	5.13	-25.2	-208.6	168.5	156.0	12.47	13.505		
3,700.0	3,699.5	3,695.1	3,688.4	6.5	7.4	5.20	-25.5	-215.0	173.8	160.9	12.82	13.551		
3,800.0	3,799.5	3,795.0	3,788.1	6.6	7.6	5.26	-25.8	-221.4	179.1	165.9	13.17	13.594		
3,900.0	3,899.5	3,894.8	3,887.8	6.8	7.8	5.31	-26.0	-227.8	184.4	170.8	13.52	13.634		
4,000.0	3,999.5	3,994.7	3,987.4	7.0	8.0	5.36	-26.3	-234.1	189.6	175.8	13.87	13.673		
4,100.0	4,099.5	4,094.6	4,087.1	7.2	8.2	5.41	-26.6	-240.5	194.9	180.7	14.22	13.710		
4,200.0	4,199.5	4,194.4	4,186.7	7.3	8.4	5.46	-26.8	-246.9	200.2	185.7	14.57	13.745		
4,300.0	4,299.5	4,294.3	4,286.4	7.5	8.7	5.51	-27.1	-253.3	205.5	190.6	14.92	13.779		
4,400.0	4,399.5	4,394.1	4,386.0	7.7	8.9	5.55	-27.4	-259.6	210.8	195.5	15.26	13.810		
4,500.0	4,499.5	4,494.0	4,485.7	7.9	9.1	5.59	-27.6	-266.0	216.1	200.5	15.61	13.841		
4,600.0	4,599.5	4,593.9	4,585.3	8.0	9.3	5.63	-27.9	-272.4	221.4	205.4	15.96	13.870		
4,700.0	4,699.5	4,693.7	4,685.0	8.2	9.5	5.67	-28.2	-278.8	226.7	210.4	16.31	13.898		
4,800.0	4,799.5	4,793.6	4,784.7	8.4	9.7	5.70	-28.4	-285.1	232.0	215.3	16.66	13.925		
4,900.0	4,899.5	4,893.4	4,884.3	8.6	9.9	5.74	-28.7	-291.5	237.3	220.3	17.01	13.951		
5,000.0	4,999.5	4,993.3	4,984.0	8.7	10.1	5.77	-29.0	-297.9	242.6	225.2	17.36	13.975		
5,100.0	5,099.5	5,093.2	5,083.6	8.9	10.3	5.80	-29.2	-304.3	247.9	230.2	17.71	13.999		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2A-7H-E168 - Hz - Plan #1												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	5,199.5	5,193.0	5,183.3	9.1	10.5	5.83	-29.5	-310.6	253.2	235.1	18.05	14.022	
5,300.0	5,299.5	5,292.9	5,282.9	9.3	10.7	5.86	-29.8	-317.0	258.5	240.0	18.40	14.044	
5,400.0	5,399.4	5,392.7	5,382.6	9.4	10.9	5.88	-30.0	-323.4	263.7	245.0	18.75	14.065	
5,500.0	5,499.4	5,492.6	5,482.2	9.6	11.1	5.91	-30.3	-329.8	269.0	249.9	19.10	14.085	
5,600.0	5,599.4	5,592.5	5,581.9	9.8	11.3	5.94	-30.6	-336.2	274.3	254.9	19.45	14.105	
5,700.0	5,699.4	5,692.3	5,681.6	10.0	11.5	5.96	-30.8	-342.5	279.6	259.8	19.80	14.123	
5,800.0	5,799.4	5,792.2	5,781.2	10.1	11.8	5.98	-31.1	-348.9	284.9	264.8	20.15	14.142	
5,900.0	5,899.4	5,892.0	5,880.9	10.3	12.0	6.01	-31.4	-355.3	290.2	269.7	20.50	14.159	
6,000.0	5,999.4	5,991.9	5,980.5	10.5	12.2	6.03	-31.6	-361.7	295.5	274.7	20.84	14.176	
6,100.0	6,099.4	6,091.7	6,080.2	10.7	12.4	6.05	-31.9	-368.0	300.8	279.6	21.19	14.193	
6,200.0	6,199.4	6,191.6	6,179.8	10.9	12.6	6.07	-32.2	-374.4	306.1	284.6	21.54	14.209	
6,300.0	6,299.4	6,291.5	6,279.5	11.0	12.8	6.09	-32.4	-380.8	311.4	289.5	21.89	14.224	
6,400.0	6,399.4	6,391.3	6,379.1	11.2	13.0	6.11	-32.7	-387.2	316.7	294.4	22.24	14.239	
6,500.0	6,499.4	6,491.2	6,478.8	11.4	13.2	6.13	-33.0	-393.5	322.0	299.4	22.59	14.254	
6,600.0	6,599.4	6,591.0	6,578.5	11.6	13.4	6.14	-33.2	-399.9	327.3	304.3	22.94	14.268	
6,700.0	6,699.4	6,690.9	6,678.1	11.7	13.6	6.16	-33.5	-406.3	332.6	309.3	23.29	14.281	
6,800.0	6,799.4	6,790.8	6,777.8	11.9	13.8	6.18	-33.8	-412.7	337.9	314.2	23.64	14.295	
6,900.0	6,899.4	6,890.6	6,877.4	12.1	14.0	6.19	-34.0	-419.0	343.2	319.2	23.98	14.308	
7,000.0	6,999.3	6,990.5	6,977.1	12.3	14.2	6.21	-34.3	-425.4	348.4	324.1	24.33	14.320	
7,100.0	7,099.0	7,090.0	7,076.4	12.4	14.4	-87.61	-34.6	-431.8	353.9	329.2	24.67	14.344	
7,200.0	7,196.0	7,186.8	7,173.0	12.6	14.6	-92.75	-34.8	-438.0	360.8	335.7	25.01	14.424	
7,300.0	7,287.4	7,281.2	7,267.2	12.8	14.8	-98.09	-34.6	-444.0	371.8	346.4	25.36	14.661	
7,400.0	7,370.5	7,369.8	7,374.4	13.1	15.1	-103.79	-20.3	-451.1	387.6	361.9	25.75	15.055	
7,500.0	7,442.7	7,510.8	7,488.3	13.6	15.3	-108.97	19.1	-459.1	406.2	380.1	26.16	15.526	
7,600.0	7,501.8	7,647.0	7,603.4	14.1	15.7	-113.52	90.9	-467.7	425.4	398.7	26.68	15.947	
7,700.0	7,546.0	7,800.4	7,708.5	14.9	16.4	-117.20	201.6	-476.4	442.3	414.9	27.43	16.127	
7,800.0	7,573.9	7,969.9	7,786.1	15.9	17.5	-119.64	351.5	-484.0	454.1	425.4	28.66	15.843	
7,900.0	7,584.9	8,149.5	7,816.9	17.0	19.2	-120.44	527.5	-489.0	458.2	427.6	30.57	14.989	
7,968.8	7,585.9	8,222.6	7,817.0	17.8	20.0	-120.33	600.6	-490.3	457.7	425.6	32.02	14.294	
8,000.0	7,585.0	8,253.8	7,817.0	18.2	20.3	-120.43	631.9	-490.8	458.1	425.5	32.63	14.037	
8,100.0	7,585.0	8,353.8	7,817.0	19.5	21.5	-120.43	731.9	-492.6	458.1	423.2	34.86	13.142	
8,200.0	7,585.0	8,453.8	7,817.0	20.8	22.7	-120.43	831.8	-494.3	458.1	420.9	37.19	12.317	
8,300.0	7,585.0	8,553.8	7,817.0	22.2	24.1	-120.43	931.8	-496.1	458.1	418.5	39.63	11.561	
8,400.0	7,585.0	8,653.8	7,817.0	23.7	25.4	-120.43	1,031.8	-497.8	458.1	416.0	42.14	10.872	
8,500.0	7,585.0	8,753.8	7,817.0	25.2	26.8	-120.43	1,131.8	-499.6	458.1	413.4	44.71	10.246	
8,600.0	7,585.0	8,853.8	7,817.0	26.7	28.3	-120.43	1,231.8	-501.3	458.1	410.8	47.34	9.677	
8,700.0	7,585.0	8,953.8	7,817.0	28.3	29.8	-120.43	1,331.8	-503.1	458.1	408.1	50.01	9.160	
8,800.0	7,585.0	9,053.8	7,817.0	29.8	31.3	-120.43	1,431.7	-504.8	458.1	405.4	52.73	8.689	
8,900.0	7,585.0	9,153.8	7,817.0	31.4	32.8	-120.43	1,531.7	-506.5	458.1	402.6	55.47	8.258	
9,000.0	7,585.0	9,253.8	7,817.0	33.0	34.4	-120.43	1,631.7	-508.3	458.1	399.9	58.25	7.865	
9,100.0	7,585.0	9,353.8	7,817.0	34.7	35.9	-120.43	1,731.7	-510.0	458.1	397.1	61.04	7.504	
9,200.0	7,585.0	9,453.8	7,817.0	36.3	37.5	-120.43	1,831.7	-511.8	458.1	394.2	63.86	7.173	
9,300.0	7,585.0	9,553.8	7,817.0	37.9	39.1	-120.47	1,931.7	-513.5	457.5	390.7	66.80	6.849	
9,400.0	7,585.0	9,653.8	7,817.0	39.6	40.7	-120.63	2,031.6	-515.3	455.5	385.8	69.67	6.537	
9,500.0	7,585.0	9,753.7	7,817.0	41.3	42.4	-120.92	2,131.5	-517.0	451.9	379.5	72.46	6.237	
9,600.0	7,585.0	9,853.6	7,817.0	42.9	44.0	-121.27	2,231.4	-518.8	447.4	372.3	75.09	5.959	
9,700.0	7,585.0	9,953.4	7,817.0	44.6	45.6	-121.62	2,331.2	-520.5	443.0	365.3	77.70	5.701	
9,800.0	7,585.0	10,053.3	7,817.0	46.3	47.3	-121.98	2,431.1	-522.2	438.5	358.2	80.29	5.462	
9,900.0	7,585.0	10,153.2	7,817.0	48.0	49.0	-122.34	2,530.9	-524.0	434.1	351.2	82.86	5.239	
10,000.0	7,585.0	10,253.0	7,817.0	49.7	50.6	-122.72	2,630.8	-525.7	429.7	344.3	85.40	5.031	
10,100.0	7,585.0	10,352.9	7,817.0	51.4	52.3	-123.10	2,730.6	-527.5	425.3	337.4	87.92	4.837	
10,200.0	7,585.0	10,452.8	7,817.0	53.1	54.0	-123.49	2,830.5	-529.2	420.9	330.5	90.40	4.656	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2A-7H-E168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,300.0	7,585.0	10,552.6	7,817.0	54.8	55.6	-123.88	2,930.3	-531.0	416.5	323.7	92.86	4.486		
10,400.0	7,585.0	10,652.5	7,817.0	56.5	57.3	-124.29	3,030.1	-532.7	412.2	316.9	95.28	4.326		
10,500.0	7,585.0	10,752.3	7,817.0	58.2	59.0	-124.70	3,130.0	-534.4	407.9	310.2	97.67	4.176		
10,600.0	7,585.0	10,852.2	7,817.0	60.0	60.7	-125.12	3,229.8	-536.2	403.6	303.6	100.02	4.035		
10,700.0	7,585.0	10,952.1	7,817.0	61.7	62.4	-125.56	3,329.7	-537.9	399.3	297.0	102.33	3.902		
10,800.0	7,585.0	11,052.0	7,817.0	63.4	64.1	-125.92	3,429.6	-539.7	395.6	291.0	104.60	3.782		
10,900.0	7,585.0	11,151.9	7,817.0	65.1	65.8	-126.15	3,529.5	-541.4	393.3	286.3	106.99	3.676		
11,000.0	7,585.0	11,251.9	7,817.0	66.8	67.5	-126.24	3,629.5	-543.2	392.4	282.9	109.51	3.584		
11,012.7	7,585.0	11,264.7	7,817.0	67.1	67.7	-126.24	3,642.2	-543.4	392.4	282.6	109.84	3.573		
11,100.0	7,585.0	11,351.9	7,817.0	68.6	69.2	-126.19	3,729.5	-544.9	393.0	280.8	112.18	3.503		
11,200.0	7,585.0	11,451.9	7,817.0	70.3	70.9	-126.04	3,829.4	-546.6	394.3	279.2	115.14	3.425		
11,300.0	7,585.0	11,551.9	7,817.0	72.0	72.6	-125.90	3,929.4	-548.4	395.7	277.6	118.14	3.350		
11,400.0	7,585.0	11,651.9	7,817.0	73.7	74.4	-125.76	4,029.4	-550.1	397.1	275.9	121.14	3.278		
11,500.0	7,585.0	11,751.9	7,817.0	75.4	76.1	-125.61	4,129.4	-551.9	398.5	274.3	124.16	3.209		
11,600.0	7,585.0	11,851.8	7,817.0	77.2	77.8	-125.47	4,229.3	-553.6	399.8	272.7	127.18	3.144		
11,700.0	7,585.0	11,951.8	7,817.0	78.9	79.5	-125.33	4,329.3	-555.4	401.2	271.0	130.21	3.081		
11,800.0	7,585.0	12,051.8	7,817.0	80.6	81.2	-125.19	4,429.3	-557.1	402.6	269.4	133.26	3.021		
11,900.0	7,585.0	12,151.8	7,817.0	82.4	83.0	-125.05	4,529.2	-558.9	404.0	267.7	136.31	2.964		
12,000.0	7,585.0	12,251.8	7,817.0	84.1	84.7	-124.91	4,629.2	-560.6	405.4	266.0	139.37	2.909		
12,100.0	7,585.0	12,351.8	7,817.0	85.8	86.4	-124.78	4,729.2	-562.4	406.8	264.3	142.44	2.856		
12,200.0	7,585.0	12,451.8	7,817.0	87.6	88.1	-124.64	4,829.1	-564.1	408.2	262.7	145.52	2.805		
12,300.0	7,585.0	12,551.7	7,817.0	89.3	89.9	-124.51	4,929.1	-565.8	409.6	261.0	148.60	2.756		
12,400.0	7,585.0	12,651.7	7,817.0	91.0	91.6	-124.37	5,029.1	-567.6	411.0	259.3	151.70	2.709		
12,500.0	7,585.0	12,751.7	7,817.0	92.8	93.3	-124.24	5,129.1	-569.3	412.4	257.6	154.80	2.664		
12,600.0	7,585.0	12,851.7	7,817.0	94.5	95.0	-124.11	5,229.0	-571.1	413.8	255.9	157.91	2.620		
12,700.0	7,585.0	12,951.7	7,817.0	96.2	96.8	-123.98	5,329.0	-572.8	415.2	254.2	161.03	2.578		
12,800.0	7,585.0	13,051.7	7,817.0	98.0	98.5	-123.85	5,429.0	-574.6	416.6	252.4	164.15	2.538		
12,900.0	7,585.0	13,151.7	7,817.0	99.7	100.2	-123.72	5,528.9	-576.3	418.0	250.7	167.29	2.499		
13,000.0	7,585.0	13,251.6	7,817.0	101.4	102.0	-123.59	5,628.9	-578.1	419.4	249.0	170.43	2.461		
13,100.0	7,585.0	13,351.6	7,817.0	103.2	103.7	-123.46	5,728.9	-579.8	420.8	247.3	173.57	2.424		
13,200.0	7,585.0	13,451.6	7,817.0	104.9	105.4	-123.33	5,828.9	-581.5	422.2	245.5	176.73	2.389		
13,300.0	7,585.0	13,551.6	7,817.0	106.7	107.2	-123.21	5,928.8	-583.3	423.7	243.8	179.89	2.355		
13,400.0	7,585.0	13,651.6	7,817.0	108.4	108.9	-123.08	6,028.8	-585.0	425.1	242.0	183.06	2.322		
13,500.0	7,585.0	13,751.6	7,817.0	110.1	110.6	-122.96	6,128.8	-586.8	426.5	240.3	186.23	2.290		
13,600.0	7,585.0	13,851.6	7,817.0	111.9	112.4	-122.83	6,228.7	-588.5	427.9	238.5	189.41	2.259		
13,700.0	7,585.0	13,951.5	7,817.0	113.6	114.1	-122.71	6,328.7	-590.3	429.4	236.8	192.59	2.229		
13,800.0	7,585.0	14,051.5	7,817.0	115.4	115.9	-122.59	6,428.7	-592.0	430.8	235.0	195.79	2.200		
13,900.0	7,585.0	14,151.5	7,817.0	117.1	117.6	-122.47	6,528.6	-593.8	432.2	233.2	198.98	2.172		
14,000.0	7,585.0	14,251.5	7,817.0	118.8	119.3	-122.35	6,628.6	-595.5	433.7	231.5	202.19	2.145		
14,100.0	7,585.0	14,351.5	7,817.0	120.6	121.1	-122.23	6,728.6	-597.3	435.1	229.7	205.40	2.118		
14,200.0	7,585.0	14,451.5	7,817.0	122.3	122.8	-122.11	6,828.6	-599.0	436.5	227.9	208.61	2.092		
14,300.0	7,585.0	14,551.5	7,817.0	124.1	124.6	-121.99	6,928.5	-600.7	438.0	226.1	211.83	2.067		
14,400.0	7,585.0	14,651.4	7,817.0	125.8	126.3	-121.87	7,028.5	-602.5	439.4	224.3	215.06	2.043		
14,500.0	7,585.0	14,751.4	7,817.0	127.6	128.0	-121.76	7,128.5	-604.2	440.8	222.5	218.29	2.019		
14,508.5	7,585.0	14,759.2	7,817.0	127.7	128.2	-121.75	7,136.2	-604.4	441.0	222.4	218.55	2.018 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #1														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	1.0	1.0	0.0	0.0	158.99	-7.3	2.8	7.8						
100.0	100.0	101.0	101.0	0.1	0.1	158.99	-7.3	2.8	7.8	7.5	0.26	29.614			
200.0	200.0	201.0	201.0	0.3	0.3	158.99	-7.3	2.8	7.8	7.2	0.61	12.740			
300.0	300.0	301.0	301.0	0.5	0.5	158.99	-7.3	2.8	7.8	6.8	0.96	8.116			
400.0	400.0	401.0	401.0	0.7	0.7	-66.92	-7.3	2.8	7.4	6.1	1.31	5.659			
500.0	500.0	501.0	501.0	0.8	0.8	-87.55	-7.3	2.8	6.8	5.2	1.66	4.105			
508.2	508.1	509.1	509.1	0.8	0.8	-90.00	-7.3	2.8	6.8	5.1	1.69	4.030 CC, ES			
600.0	599.9	600.9	600.9	1.0	1.0	-120.77	-7.3	2.8	7.9	5.9	2.02	3.934			
700.0	699.8	700.6	700.6	1.2	1.2	-144.00	-7.4	3.7	11.8	9.4	2.37	4.988			
800.0	799.7	800.2	800.2	1.4	1.4	-159.78	-7.5	6.3	16.7	14.0	2.71	6.139			
900.0	899.7	900.1	900.0	1.6	1.5	178.67	-7.8	9.9	21.4	18.4	3.06	6.998			
1,000.0	999.7	1,000.0	999.8	1.7	1.7	-179.35	-8.1	13.5	26.1	22.7	3.41	7.639			
1,100.0	1,099.7	1,099.9	1,099.6	1.9	1.9	-177.96	-8.4	17.1	30.7	27.0	3.76	8.167			
1,200.0	1,199.7	1,199.7	1,199.4	2.1	2.1	-176.95	-8.6	20.7	35.4	31.3	4.11	8.609			
1,300.0	1,299.7	1,299.6	1,299.3	2.3	2.3	-176.17	-8.9	24.3	40.1	35.6	4.46	8.984			
1,400.0	1,399.7	1,399.5	1,399.1	2.4	2.4	-175.55	-9.2	27.9	44.7	39.9	4.81	9.305			
1,500.0	1,499.7	1,499.4	1,498.9	2.6	2.6	-175.05	-9.5	31.5	49.4	44.3	5.16	9.584			
1,600.0	1,599.7	1,599.3	1,598.7	2.8	2.8	-174.63	-9.7	35.1	54.1	48.6	5.50	9.829			
1,700.0	1,699.7	1,699.2	1,698.6	3.0	3.0	-174.29	-10.0	38.7	58.8	52.9	5.85	10.044			
1,800.0	1,799.7	1,799.1	1,798.4	3.1	3.2	-173.99	-10.3	42.3	63.5	57.3	6.20	10.236			
1,900.0	1,899.7	1,899.0	1,898.2	3.3	3.4	-173.73	-10.5	45.9	68.2	61.6	6.55	10.407			
2,000.0	1,999.7	1,998.9	1,998.0	3.5	3.5	-173.51	-10.8	49.5	72.9	66.0	6.90	10.561			
2,100.0	2,099.6	2,098.7	2,097.9	3.7	3.7	-173.31	-11.1	53.1	77.6	70.3	7.25	10.701			
2,200.0	2,199.6	2,198.6	2,197.7	3.8	3.9	-173.14	-11.4	56.7	82.3	74.7	7.60	10.827			
2,300.0	2,299.6	2,298.5	2,297.5	4.0	4.1	-172.99	-11.6	60.3	86.9	79.0	7.95	10.943			
2,400.0	2,399.6	2,398.4	2,397.3	4.2	4.3	-172.85	-11.9	63.9	91.6	83.3	8.29	11.049			
2,500.0	2,499.6	2,498.3	2,497.2	4.4	4.5	-172.72	-12.2	67.5	96.3	87.7	8.64	11.147			
2,600.0	2,599.6	2,598.2	2,597.0	4.5	4.7	-172.61	-12.4	71.1	101.0	92.0	8.99	11.237			
2,700.0	2,699.6	2,698.1	2,696.8	4.7	4.8	-172.50	-12.7	74.7	105.7	96.4	9.34	11.320			
2,800.0	2,799.6	2,798.0	2,796.6	4.9	5.0	-172.41	-13.0	78.3	110.4	100.7	9.69	11.397			
2,900.0	2,899.6	2,897.9	2,896.4	5.1	5.2	-172.32	-13.3	81.9	115.1	105.1	10.04	11.469			
3,000.0	2,999.6	2,997.8	2,996.3	5.2	5.4	-172.24	-13.5	85.5	119.8	109.4	10.39	11.536			
3,100.0	3,099.6	3,097.6	3,096.1	5.4	5.6	-172.17	-13.8	89.1	124.5	113.8	10.74	11.599			
3,200.0	3,199.6	3,197.5	3,195.9	5.6	5.8	-172.10	-14.1	92.7	129.2	118.1	11.08	11.658			
3,300.0	3,299.6	3,297.4	3,295.7	5.8	6.0	-172.04	-14.3	96.3	133.9	122.5	11.43	11.713			
3,400.0	3,399.6	3,397.3	3,395.6	5.9	6.1	-171.98	-14.6	100.0	138.6	126.8	11.78	11.765			
3,500.0	3,499.6	3,497.2	3,495.4	6.1	6.3	-171.92	-14.9	103.6	143.3	131.2	12.13	11.814			
3,600.0	3,599.6	3,597.1	3,595.2	6.3	6.5	-171.87	-15.2	107.2	148.0	135.5	12.48	11.861			
3,700.0	3,699.5	3,697.0	3,695.0	6.5	6.7	-171.82	-15.4	110.8	152.7	139.9	12.83	11.905			
3,800.0	3,799.5	3,796.9	3,794.9	6.6	6.9	-171.77	-15.7	114.4	157.4	144.2	13.18	11.946			
3,900.0	3,899.5	3,896.8	3,894.7	6.8	7.1	-171.73	-16.0	118.0	162.1	148.6	13.53	11.985			
4,000.0	3,999.5	3,996.6	3,994.5	7.0	7.2	-171.69	-16.2	121.6	166.8	152.9	13.87	12.023			
4,100.0	4,099.5	4,096.5	4,094.3	7.2	7.4	-171.65	-16.5	125.2	171.5	157.3	14.22	12.058			
4,200.0	4,199.5	4,196.4	4,194.2	7.3	7.6	-171.61	-16.8	128.8	176.2	161.6	14.57	12.092			
4,300.0	4,299.5	4,296.3	4,294.0	7.5	7.8	-171.58	-17.1	132.4	180.9	166.0	14.92	12.125			
4,400.0	4,399.5	4,396.2	4,393.8	7.7	8.0	-171.55	-17.3	136.0	185.6	170.3	15.27	12.155			
4,500.0	4,499.5	4,496.1	4,493.6	7.9	8.2	-171.51	-17.6	139.6	190.3	174.7	15.62	12.185			
4,600.0	4,599.5	4,596.0	4,593.5	8.0	8.4	-171.48	-17.9	143.2	195.0	179.0	15.97	12.213			
4,700.0	4,699.5	4,695.9	4,693.3	8.2	8.5	-171.46	-18.1	146.8	199.7	183.4	16.32	12.240			
4,800.0	4,799.5	4,795.8	4,793.1	8.4	8.7	-171.43	-18.4	150.4	204.4	187.7	16.66	12.266			
4,900.0	4,899.5	4,895.7	4,892.9	8.6	8.9	-171.40	-18.7	154.0	209.1	192.1	17.01	12.290			
5,000.0	4,999.5	4,995.5	4,992.8	8.7	9.1	-171.38	-19.0	157.6	213.8	196.4	17.36	12.314			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: O-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,099.5	5,095.4	5,092.6	8.9	9.3	-171.35	-19.2	161.2	218.5	200.8	17.71	12.337		
5,200.0	5,199.5	5,195.3	5,192.4	9.1	9.5	-171.33	-19.5	164.8	223.2	205.1	18.06	12.359		
5,300.0	5,299.5	5,295.2	5,292.2	9.3	9.7	-171.31	-19.8	168.4	227.9	209.5	18.41	12.380		
5,400.0	5,399.4	5,395.1	5,392.1	9.4	9.8	-171.29	-20.0	172.0	232.6	213.8	18.76	12.400		
5,500.0	5,499.4	5,495.0	5,491.9	9.6	10.0	-171.27	-20.3	175.6	237.3	218.2	19.11	12.420		
5,600.0	5,599.4	5,594.9	5,591.7	9.8	10.2	-171.25	-20.6	179.2	242.0	222.5	19.46	12.439		
5,700.0	5,699.4	5,694.8	5,691.5	10.0	10.4	-171.23	-20.9	182.8	246.7	226.9	19.80	12.457		
5,800.0	5,799.4	5,794.7	5,791.3	10.1	10.6	-171.21	-21.1	186.4	251.4	231.3	20.15	12.475		
5,900.0	5,899.4	5,894.5	5,891.2	10.3	10.8	-171.20	-21.4	190.0	256.1	235.6	20.50	12.492		
6,000.0	5,999.4	5,994.4	5,991.0	10.5	11.0	-171.18	-21.7	193.6	260.8	240.0	20.85	12.508		
6,100.0	6,099.4	6,094.3	6,090.8	10.7	11.1	-171.16	-22.0	197.2	265.5	244.3	21.20	12.524		
6,200.0	6,199.4	6,194.2	6,190.6	10.9	11.3	-171.15	-22.2	200.8	270.2	248.7	21.55	12.539		
6,300.0	6,299.4	6,294.1	6,290.5	11.0	11.5	-171.13	-22.5	204.4	274.9	253.0	21.90	12.554		
6,400.0	6,399.4	6,394.0	6,390.3	11.2	11.7	-171.12	-22.8	208.0	279.6	257.4	22.25	12.569		
6,500.0	6,499.4	6,493.9	6,490.1	11.4	11.9	-171.10	-23.0	211.6	284.3	261.7	22.59	12.583		
6,600.0	6,599.4	6,593.8	6,589.9	11.6	12.1	-171.09	-23.3	215.2	289.0	266.1	22.94	12.596		
6,700.0	6,699.4	6,693.7	6,689.8	11.7	12.2	-171.08	-23.6	218.8	293.7	270.4	23.29	12.609		
6,800.0	6,799.4	6,793.6	6,789.6	11.9	12.4	-171.07	-23.9	222.4	298.4	274.8	23.64	12.622		
6,900.0	6,899.4	6,893.4	6,889.4	12.1	12.6	-171.05	-24.1	226.0	303.1	279.1	23.99	12.635		
7,000.0	6,999.3	6,993.3	6,989.2	12.3	12.8	-171.04	-24.4	229.6	307.8	283.5	24.34	12.647		
7,100.0	7,099.0	7,092.9	7,088.7	12.4	13.0	96.53	-24.7	233.2	312.8	288.1	24.68	12.673		
7,200.0	7,196.0	7,189.7	7,185.5	12.6	13.2	97.83	-24.9	236.7	319.4	294.4	25.00	12.774		
7,300.0	7,287.4	7,286.4	7,282.1	12.8	13.3	102.61	-23.8	240.2	330.7	305.5	25.29	13.079		
7,400.0	7,370.5	7,396.5	7,390.5	13.1	13.5	108.12	-6.0	243.8	346.7	321.2	25.53	13.581		
7,500.0	7,442.7	7,518.4	7,504.1	13.6	13.8	113.20	37.4	247.1	365.1	339.4	25.75	14.180		
7,600.0	7,501.8	7,654.3	7,616.7	14.1	14.2	117.61	112.8	249.9	383.8	357.7	26.06	14.726		
7,700.0	7,546.0	7,805.4	7,717.3	14.9	14.9	121.08	225.0	251.5	399.9	373.2	26.69	14.986		
7,800.0	7,573.9	7,970.2	7,789.4	15.9	16.2	123.28	372.5	251.6	410.8	382.9	27.90	14.721		
7,900.0	7,584.9	8,142.8	7,817.0	17.0	17.9	123.92	542.3	249.6	414.2	384.3	29.92	13.845		
7,947.6	7,585.7	8,192.9	7,817.0	17.5	18.5	123.82	592.4	248.7	413.8	382.9	30.89	13.394		
8,000.0	7,585.0	8,245.3	7,817.0	18.2	19.1	123.90	644.8	247.8	414.1	382.2	31.92	12.974		
8,100.0	7,585.0	8,345.3	7,817.0	19.5	20.3	123.90	744.7	246.1	414.1	380.1	34.05	12.163		
8,200.0	7,585.0	8,445.3	7,817.0	20.8	21.6	123.90	844.7	244.3	414.1	377.9	36.29	11.412		
8,300.0	7,585.0	8,545.3	7,817.0	22.2	23.0	123.90	944.7	242.6	414.1	375.5	38.62	10.723		
8,400.0	7,585.0	8,645.3	7,817.0	23.7	24.4	123.90	1,044.7	240.8	414.1	373.1	41.03	10.094		
8,500.0	7,585.0	8,745.3	7,817.0	25.2	25.9	123.90	1,144.7	239.1	414.1	370.6	43.50	9.521		
8,600.0	7,585.0	8,845.3	7,817.0	26.7	27.4	123.90	1,244.7	237.3	414.1	368.1	46.02	8.999		
8,700.0	7,585.0	8,945.3	7,817.0	28.3	28.9	123.90	1,344.7	235.6	414.1	365.6	48.59	8.524		
8,800.0	7,585.0	9,045.3	7,817.0	29.8	30.5	123.90	1,444.6	233.8	414.1	363.0	51.19	8.090		
8,900.0	7,585.0	9,145.3	7,817.0	31.4	32.0	123.90	1,544.6	232.1	414.1	360.3	53.83	7.694		
9,000.0	7,585.0	9,245.3	7,817.0	33.0	33.6	123.90	1,644.6	230.4	414.1	357.7	56.49	7.331		
9,100.0	7,585.0	9,345.3	7,817.0	34.7	35.2	123.90	1,744.6	228.6	414.1	355.0	59.18	6.998		
9,200.0	7,585.0	9,445.3	7,817.0	36.3	36.9	123.90	1,844.6	226.9	414.1	352.3	61.89	6.691		
9,200.0	7,585.0	9,445.3	7,817.0	36.3	36.9	123.90	1,844.6	226.9	414.1	352.3	61.89	6.691		
9,300.0	7,585.0	9,545.3	7,817.0	37.9	38.5	123.85	1,944.6	225.1	414.7	350.1	64.60	6.419		
9,400.0	7,585.0	9,645.3	7,817.0	39.6	40.1	123.68	2,044.5	223.4	416.7	349.3	67.39	6.183		
9,500.0	7,585.0	9,745.2	7,817.0	41.3	41.8	123.39	2,144.4	221.6	420.1	349.9	70.27	5.979		
9,600.0	7,585.0	9,845.1	7,817.0	42.9	43.4	123.00	2,244.3	219.9	424.5	351.2	73.32	5.790		
9,700.0	7,585.0	9,944.9	7,817.0	44.6	45.1	122.62	2,344.1	218.1	428.9	352.5	76.42	5.613		
9,800.0	7,585.0	10,044.8	7,817.0	46.3	46.8	122.25	2,444.0	216.4	433.3	353.8	79.54	5.448		
9,900.0	7,585.0	10,144.6	7,817.0	48.0	48.4	121.88	2,543.8	214.7	437.8	355.1	82.69	5.294		
10,000.0	7,585.0	10,244.5	7,817.0	49.7	50.1	121.53	2,643.7	212.9	442.2	356.4	85.86	5.151		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #1												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)			
10,100.0	7,585.0	10,344.4	7,817.0	51.4	51.8	121.18	2,743.5	211.2	446.7	357.6	89.05	5.016	
10,200.0	7,585.0	10,444.2	7,817.0	53.1	53.5	120.83	2,843.3	209.4	451.2	358.9	92.26	4.890	
10,300.0	7,585.0	10,544.1	7,817.0	54.8	55.2	120.49	2,943.2	207.7	455.7	360.2	95.49	4.772	
10,400.0	7,585.0	10,644.0	7,817.0	56.5	56.9	120.16	3,043.0	205.9	460.2	361.5	98.73	4.661	
10,500.0	7,585.0	10,743.8	7,817.0	58.2	58.6	119.84	3,142.9	204.2	464.7	362.7	101.99	4.557	
10,600.0	7,585.0	10,843.7	7,817.0	60.0	60.3	119.52	3,242.7	202.5	469.3	364.0	105.26	4.458	
10,700.0	7,585.0	10,943.5	7,817.0	61.7	62.0	119.21	3,342.6	200.7	473.8	365.3	108.55	4.365	
10,800.0	7,585.0	11,043.4	7,817.0	63.4	63.7	118.93	3,442.5	199.0	477.8	365.9	111.94	4.269	
10,900.0	7,585.0	11,143.4	7,817.0	65.1	65.4	118.75	3,542.4	197.2	480.3	365.1	115.22	4.169	
11,000.0	7,585.0	11,243.4	7,817.0	66.8	67.1	118.68	3,642.4	195.5	481.3	362.9	118.36	4.066	
11,100.0	7,585.0	11,343.4	7,817.0	68.6	68.9	118.72	3,742.4	193.7	480.7	359.3	121.37	3.961	
11,200.0	7,585.0	11,443.4	7,817.0	70.3	70.6	118.82	3,842.3	192.0	479.2	355.0	124.29	3.856	
11,300.0	7,585.0	11,543.4	7,817.0	72.0	72.3	118.92	3,942.3	190.2	477.8	350.6	127.20	3.756	
11,400.0	7,585.0	11,643.3	7,817.0	73.7	74.0	119.02	4,042.3	188.5	476.3	346.2	130.11	3.661	
11,500.0	7,585.0	11,743.3	7,817.0	75.4	75.7	119.12	4,142.2	186.8	474.8	341.8	133.01	3.570	
11,600.0	7,585.0	11,843.3	7,817.0	77.2	77.5	119.22	4,242.2	185.0	473.3	337.4	135.91	3.482	
11,700.0	7,585.0	11,943.3	7,817.0	78.9	79.2	119.32	4,342.2	183.3	471.8	333.0	138.80	3.399	
11,800.0	7,585.0	12,043.3	7,817.0	80.6	80.9	119.42	4,442.2	181.5	470.3	328.6	141.69	3.319	
11,900.0	7,585.0	12,143.3	7,817.0	82.4	82.7	119.52	4,542.1	179.8	468.9	324.3	144.58	3.243	
12,000.0	7,585.0	12,243.3	7,817.0	84.1	84.4	119.62	4,642.1	178.0	467.4	319.9	147.46	3.170	
12,100.0	7,585.0	12,343.2	7,817.0	85.8	86.1	119.73	4,742.1	176.3	465.9	315.6	150.33	3.099	
12,200.0	7,585.0	12,443.2	7,817.0	87.6	87.8	119.83	4,842.0	174.5	464.4	311.2	153.19	3.032	
12,300.0	7,585.0	12,543.2	7,817.0	89.3	89.6	119.93	4,942.0	172.8	463.0	306.9	156.05	2.967	
12,400.0	7,585.0	12,643.2	7,817.0	91.0	91.3	120.04	5,042.0	171.0	461.5	302.6	158.91	2.904	
12,500.0	7,585.0	12,743.2	7,817.0	92.8	93.0	120.15	5,142.0	169.3	460.0	298.3	161.76	2.844	
12,600.0	7,585.0	12,843.2	7,817.0	94.5	94.8	120.25	5,241.9	167.6	458.6	294.0	164.60	2.786	
12,700.0	7,585.0	12,943.2	7,817.0	96.2	96.5	120.36	5,341.9	165.8	457.1	289.7	167.43	2.730	
12,800.0	7,585.0	13,043.1	7,817.0	98.0	98.3	120.47	5,441.9	164.1	455.6	285.4	170.26	2.676	
12,900.0	7,585.0	13,143.1	7,817.0	99.7	100.0	120.58	5,541.8	162.3	454.2	281.1	173.07	2.624	
13,000.0	7,585.0	13,243.1	7,817.0	101.4	101.7	120.68	5,641.8	160.6	452.7	276.8	175.89	2.574	
13,100.0	7,585.0	13,343.1	7,817.0	103.2	103.5	120.79	5,741.8	158.8	451.3	272.6	178.69	2.525	
13,200.0	7,585.0	13,443.1	7,817.0	104.9	105.2	120.91	5,841.7	157.1	449.8	268.3	181.49	2.478	
13,300.0	7,585.0	13,543.1	7,817.0	106.7	106.9	121.02	5,941.7	155.3	448.3	264.1	184.27	2.433	
13,400.0	7,585.0	13,643.1	7,817.0	108.4	108.7	121.13	6,041.7	153.6	446.9	259.8	187.05	2.389	
13,500.0	7,585.0	13,743.0	7,817.0	110.1	110.4	121.24	6,141.7	151.9	445.4	255.6	189.83	2.347	
13,600.0	7,585.0	13,843.0	7,817.0	111.9	112.2	121.35	6,241.6	150.1	444.0	251.4	192.59	2.305	
13,700.0	7,585.0	13,943.0	7,817.0	113.6	113.9	121.47	6,341.6	148.4	442.5	247.2	195.34	2.265	
13,800.0	7,585.0	14,043.0	7,817.0	115.4	115.6	121.58	6,441.6	146.6	441.1	243.0	198.09	2.227	
13,900.0	7,585.0	14,143.0	7,817.0	117.1	117.4	121.70	6,541.5	144.9	439.6	238.8	200.83	2.189	
14,000.0	7,585.0	14,243.0	7,817.0	118.8	119.1	121.82	6,641.5	143.1	438.2	234.7	203.56	2.153	
14,100.0	7,585.0	14,343.0	7,817.0	120.6	120.9	121.93	6,741.5	141.4	436.8	230.5	206.28	2.117	
14,200.0	7,585.0	14,442.9	7,817.0	122.3	122.6	122.05	6,841.4	139.6	435.3	226.3	208.98	2.083	
14,300.0	7,585.0	14,542.9	7,817.0	124.1	124.4	122.17	6,941.4	137.9	433.9	222.2	211.68	2.050	
14,400.0	7,585.0	14,642.9	7,817.0	125.8	126.1	122.29	7,041.4	136.1	432.5	218.1	214.37	2.017	
14,500.0	7,585.0	14,742.9	7,817.0	127.6	127.8	122.41	7,141.4	134.4	431.0	214.0	217.05	1.986	
14,508.5	7,585.0	14,748.7	7,817.0	127.7	127.9	122.42	7,147.1	134.3	430.9	213.7	217.25	1.983 SF	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2D-7H-E168 - Hz - Plan #1														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	1.0	1.0	0.0	0.0	90.00	0.0	8.4	8.4						
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	8.4	8.4	8.1	0.26	31.859			
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	8.4	8.4	7.8	0.61	13.706			
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	8.4	8.4	7.4	0.96	8.731 CC, ES			
400.0	400.0	401.0	401.0	0.7	0.7	-134.26	0.0	8.4	9.0	7.7	1.31	6.851			
500.0	500.0	501.0	501.0	0.8	0.8	-144.09	0.0	8.4	11.0	9.3	1.66	6.605 SF			
600.0	599.9	600.6	600.6	1.0	1.0	-152.62	0.0	9.3	15.5	13.5	2.01	7.723			
700.0	699.8	700.0	700.0	1.2	1.2	-159.38	-0.1	11.9	21.9	19.5	2.36	9.267			
800.0	799.7	799.5	799.4	1.4	1.4	-170.04	-0.3	16.2	28.4	25.7	2.71	10.466			
900.0	899.7	898.7	898.4	1.6	1.6	170.26	-0.5	22.3	35.3	32.3	3.06	11.536			
1,000.0	999.7	997.8	997.2	1.7	1.8	173.99	-0.7	30.0	43.8	40.4	3.41	12.848			
1,100.0	1,099.7	1,097.4	1,096.4	1.9	2.0	176.66	-1.0	38.3	53.0	49.3	3.76	14.103			
1,200.0	1,199.7	1,196.9	1,195.6	2.1	2.2	178.55	-1.3	46.7	62.3	58.2	4.11	15.166			
1,300.0	1,299.7	1,296.5	1,294.8	2.3	2.4	179.94	-1.6	55.0	71.6	67.2	4.46	16.076			
1,400.0	1,399.7	1,396.0	1,394.0	2.4	2.6	-178.98	-1.9	63.3	81.0	76.2	4.80	16.860			
1,500.0	1,499.7	1,495.6	1,493.2	2.6	2.8	-178.13	-2.2	71.7	90.4	85.2	5.15	17.544			
1,600.0	1,599.7	1,595.1	1,592.4	2.8	3.0	-177.44	-2.5	80.0	99.8	94.3	5.50	18.144			
1,700.0	1,699.7	1,694.7	1,691.6	3.0	3.3	-176.87	-2.8	88.4	109.2	103.4	5.85	18.674			
1,800.0	1,799.7	1,794.2	1,790.8	3.1	3.5	-176.39	-3.1	96.7	118.6	112.4	6.20	19.147			
1,900.0	1,899.7	1,893.8	1,890.0	3.3	3.7	-175.98	-3.3	105.1	128.1	121.5	6.54	19.571			
2,000.0	1,999.7	1,993.3	1,989.2	3.5	3.9	-175.63	-3.6	113.4	137.5	130.6	6.89	19.952			
2,100.0	2,099.6	2,092.9	2,088.4	3.7	4.2	-175.32	-3.9	121.8	146.9	139.7	7.24	20.298			
2,200.0	2,199.6	2,192.4	2,187.6	3.8	4.4	-175.05	-4.2	130.1	156.4	148.8	7.59	20.612			
2,300.0	2,299.6	2,292.0	2,286.8	4.0	4.6	-174.81	-4.5	138.4	165.8	157.9	7.93	20.899			
2,400.0	2,399.6	2,391.5	2,386.0	4.2	4.8	-174.60	-4.8	146.8	175.3	167.0	8.28	21.162			
2,500.0	2,499.6	2,491.1	2,485.2	4.4	5.1	-174.41	-5.1	155.1	184.7	176.1	8.63	21.405			
2,600.0	2,599.6	2,590.6	2,584.4	4.5	5.3	-174.23	-5.4	163.5	194.2	185.2	8.98	21.629			
2,700.0	2,699.6	2,690.2	2,683.6	4.7	5.5	-174.07	-5.7	171.8	203.6	194.3	9.33	21.836			
2,800.0	2,799.6	2,789.7	2,782.8	4.9	5.7	-173.93	-6.0	180.2	213.1	203.4	9.67	22.028			
2,900.0	2,899.6	2,889.3	2,882.0	5.1	6.0	-173.80	-6.2	188.5	222.6	212.5	10.02	22.207			
3,000.0	2,999.6	2,988.8	2,981.2	5.2	6.2	-173.68	-6.5	196.9	232.0	221.6	10.37	22.375			
3,100.0	3,099.6	3,088.4	3,080.4	5.4	6.4	-173.57	-6.8	205.2	241.5	230.8	10.72	22.531			
3,200.0	3,199.6	3,187.9	3,179.6	5.6	6.6	-173.47	-7.1	213.5	250.9	239.9	11.07	22.678			
3,300.0	3,299.6	3,287.5	3,278.8	5.8	6.9	-173.37	-7.4	221.9	260.4	249.0	11.41	22.816			
3,400.0	3,399.6	3,387.0	3,378.0	5.9	7.1	-173.28	-7.7	230.2	269.9	258.1	11.76	22.945			
3,500.0	3,499.6	3,486.6	3,477.2	6.1	7.3	-173.20	-8.0	238.6	279.3	267.2	12.11	23.068			
3,600.0	3,599.6	3,586.1	3,576.4	6.3	7.5	-173.12	-8.3	246.9	288.8	276.3	12.46	23.183			
3,700.0	3,699.5	3,685.7	3,675.6	6.5	7.8	-173.05	-8.6	255.3	298.3	285.5	12.80	23.293			
3,800.0	3,799.5	3,785.2	3,774.8	6.6	8.0	-172.98	-8.8	263.6	307.7	294.6	13.15	23.396			
3,900.0	3,899.5	3,884.8	3,874.0	6.8	8.2	-172.92	-9.1	272.0	317.2	303.7	13.50	23.494			
4,000.0	3,999.5	3,984.3	3,973.2	7.0	8.4	-172.86	-9.4	280.3	326.7	312.8	13.85	23.588			
4,100.0	4,099.5	4,083.9	4,072.4	7.2	8.7	-172.80	-9.7	288.6	336.1	321.9	14.20	23.676			
4,200.0	4,199.5	4,183.4	4,171.6	7.3	8.9	-172.75	-10.0	297.0	345.6	331.0	14.54	23.761			
4,300.0	4,299.5	4,283.0	4,270.8	7.5	9.1	-172.70	-10.3	305.3	355.1	340.2	14.89	23.841			
4,400.0	4,399.5	4,382.5	4,370.0	7.7	9.3	-172.65	-10.6	313.7	364.5	349.3	15.24	23.918			
4,500.0	4,499.5	4,482.1	4,469.2	7.9	9.6	-172.60	-10.9	322.0	374.0	358.4	15.59	23.992			
4,600.0	4,599.5	4,581.6	4,568.4	8.0	9.8	-172.56	-11.2	330.4	383.5	367.5	15.94	24.062			
4,700.0	4,699.5	4,681.2	4,667.6	8.2	10.0	-172.52	-11.4	338.7	392.9	376.6	16.28	24.130			
4,800.0	4,799.5	4,780.7	4,766.8	8.4	10.2	-172.48	-11.7	347.0	402.4	385.8	16.63	24.194			
4,900.0	4,899.5	4,880.3	4,866.0	8.6	10.5	-172.44	-12.0	355.4	411.9	394.9	16.98	24.256			
5,000.0	4,999.5	4,979.8	4,965.2	8.7	10.7	-172.41	-12.3	363.7	421.3	404.0	17.33	24.315			
5,100.0	5,099.5	5,079.4	5,064.4	8.9	10.9	-172.37	-12.6	372.1	430.8	413.1	17.68	24.372			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2D-7H-E168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
5,200.0	5,199.5	5,178.9	5,163.6	9.1	11.2	-172.34	-12.9	380.4	440.3	422.2	18.02	24.427		
5,300.0	5,299.5	5,278.5	5,262.8	9.3	11.4	-172.31	-13.2	388.8	449.7	431.4	18.37	24.480		
5,400.0	5,399.4	5,378.0	5,362.0	9.4	11.6	-172.28	-13.5	397.1	459.2	440.5	18.72	24.531		
5,500.0	5,499.4	5,477.6	5,461.2	9.6	11.8	-172.25	-13.8	405.5	468.7	449.6	19.07	24.580		
5,600.0	5,599.4	5,577.1	5,560.4	9.8	12.1	-172.22	-14.0	413.8	478.1	458.7	19.42	24.627		
5,700.0	5,699.4	5,676.7	5,659.6	10.0	12.3	-172.19	-14.3	422.1	487.6	467.8	19.76	24.673		
5,800.0	5,799.4	5,776.2	5,758.8	10.1	12.5	-172.17	-14.6	430.5	497.1	477.0	20.11	24.717		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2E-7H-E168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	1.0	1.0	0.0	0.0	106.13	-7.3	25.2	26.2					
100.0	100.0	101.0	101.0	0.1	0.1	106.13	-7.3	25.2	26.2	0.26	99.496			
200.0	200.0	201.0	201.0	0.3	0.3	106.13	-7.3	25.2	26.2	0.61	42.803			
300.0	300.0	301.0	301.0	0.5	0.5	106.13	-7.3	25.2	26.2	0.96	27.267 CC, ES			
400.0	400.0	401.0	401.0	0.7	0.7	-115.58	-7.3	25.2	26.6	1.31	20.275			
500.0	500.0	500.5	500.5	0.8	0.8	-120.69	-7.3	26.1	28.7	1.66	17.259			
600.0	599.9	600.0	600.0	1.0	1.0	-127.69	-7.3	28.7	33.8	2.02	16.741 SF			
700.0	699.8	698.8	698.6	1.2	1.2	-137.25	-7.4	33.0	41.0	2.37	17.343			
800.0	799.7	797.6	797.3	1.4	1.4	-151.92	-7.4	39.0	49.2	2.71	18.142			
900.0	899.7	896.3	895.7	1.6	1.6	-175.52	-7.5	46.7	58.3	3.06	19.041			
1,000.0	999.7	994.7	993.6	1.7	1.8	-174.99	-7.6	56.0	68.8	3.40	20.216			
1,100.0	1,099.7	1,092.6	1,090.9	1.9	2.0	-174.53	-7.7	67.0	81.1	3.75	21.633			
1,200.0	1,199.7	1,191.1	1,188.6	2.1	2.3	-174.14	-7.8	79.4	94.8	4.10	23.153			
1,300.0	1,299.7	1,290.1	1,286.8	2.3	2.6	-173.84	-7.9	92.1	108.7	4.44	24.467			
1,400.0	1,399.7	1,389.1	1,385.0	2.4	2.8	-173.61	-8.0	104.8	122.5	4.79	25.591			
1,500.0	1,499.7	1,488.2	1,483.3	2.6	3.1	-173.42	-8.1	117.4	136.4	5.13	26.564			
1,600.0	1,599.7	1,587.2	1,581.5	2.8	3.4	-173.27	-8.3	130.1	150.3	5.48	27.414			
1,700.0	1,699.7	1,686.2	1,679.7	3.0	3.6	-173.15	-8.4	142.7	164.1	5.83	28.163			
1,800.0	1,799.7	1,785.3	1,777.9	3.1	3.9	-173.04	-8.5	155.4	178.0	6.17	28.828			
1,900.0	1,899.7	1,884.3	1,876.1	3.3	4.2	-172.95	-8.6	168.1	191.9	6.52	29.422			
2,000.0	1,999.7	1,983.3	1,974.4	3.5	4.4	-172.88	-8.7	180.7	205.7	6.87	29.956			
2,100.0	2,099.6	2,082.4	2,072.6	3.7	4.7	-172.81	-8.9	193.4	219.6	7.21	30.439			
2,200.0	2,199.6	2,181.4	2,170.8	3.8	5.0	-172.75	-9.0	206.0	233.5	7.56	30.878			
2,300.0	2,299.6	2,280.4	2,269.0	4.0	5.3	-172.70	-9.1	218.7	247.3	7.91	31.278			
2,400.0	2,399.6	2,379.5	2,367.2	4.2	5.6	-172.65	-9.2	231.4	261.2	8.25	31.645			
2,500.0	2,499.6	2,478.5	2,465.5	4.4	5.8	-172.61	-9.3	244.0	275.1	8.60	31.982			
2,600.0	2,599.6	2,577.5	2,563.7	4.5	6.1	-172.57	-9.4	256.7	288.9	8.95	32.293			
2,700.0	2,699.6	2,676.6	2,661.9	4.7	6.4	-172.53	-9.6	269.3	302.8	9.29	32.581			
2,800.0	2,799.6	2,775.6	2,760.1	4.9	6.7	-172.50	-9.7	282.0	316.7	9.64	32.848			
2,900.0	2,899.6	2,874.6	2,858.4	5.1	6.9	-172.47	-9.8	294.7	330.5	9.99	33.096			
3,000.0	2,999.6	2,973.7	2,956.6	5.2	7.2	-172.44	-9.9	307.3	344.4	10.33	33.328			
3,100.0	3,099.6	3,072.7	3,054.8	5.4	7.5	-172.42	-10.0	320.0	358.3	10.68	33.545			
3,200.0	3,199.6	3,171.7	3,153.0	5.6	7.8	-172.40	-10.2	332.7	372.1	11.03	33.748			
3,300.0	3,299.6	3,270.8	3,251.2	5.8	8.1	-172.37	-10.3	345.3	386.0	11.37	33.939			
3,400.0	3,399.6	3,369.8	3,349.5	5.9	8.3	-172.35	-10.4	358.0	399.9	11.72	34.119			
3,500.0	3,499.6	3,468.8	3,447.7	6.1	8.6	-172.34	-10.5	370.6	413.7	12.07	34.288			
3,600.0	3,599.6	3,567.9	3,545.9	6.3	8.9	-172.32	-10.6	383.3	427.6	12.41	34.448			
3,700.0	3,699.5	3,666.9	3,644.1	6.5	9.2	-172.30	-10.7	396.0	441.5	12.76	34.599			
3,800.0	3,799.5	3,765.9	3,742.3	6.6	9.5	-172.29	-10.9	408.6	455.3	13.11	34.742			
3,900.0	3,899.5	3,865.0	3,840.6	6.8	9.7	-172.27	-11.0	421.3	469.2	13.45	34.877			
4,000.0	3,999.5	3,964.0	3,938.8	7.0	10.0	-172.26	-11.1	433.9	483.1	13.80	35.006			
4,100.0	4,099.5	4,063.0	4,037.0	7.2	10.3	-172.25	-11.2	446.6	496.9	14.15	35.129			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	28.0	28.0					
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	28.0	28.0	27.7	105.500			
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	28.0	28.0	27.4	45.557			
266.0	266.0	268.0	268.0	0.4	0.4	90.00	0.0	28.0	28.0	27.1	33.134 CC			
300.0	300.0	302.0	302.0	0.5	0.5	90.00	0.0	28.0	28.0	27.0	29.051 ES			
400.0	400.0	401.5	401.5	0.7	0.7	-131.27	0.0	28.9	29.5	28.1	22.455			
500.0	500.0	500.8	500.8	0.8	0.8	-134.42	0.0	31.5	33.9	32.2	20.385 SF			
600.0	599.9	600.0	599.9	1.0	1.0	-138.16	-0.1	35.8	41.4	39.4	20.542			
700.0	699.8	698.6	698.3	1.2	1.2	-145.00	-0.1	41.8	50.8	48.4	21.477			
800.0	799.7	797.2	796.6	1.4	1.4	-158.05	-0.2	49.5	60.8	58.0	22.399			
900.0	899.7	895.5	894.4	1.6	1.6	-179.29	-0.2	58.9	71.4	68.3	23.345			
1,000.0	999.7	993.4	991.7	1.7	1.9	-179.45	-0.3	69.9	83.6	80.2	24.557			
1,100.0	1,099.7	1,090.9	1,088.4	1.9	2.2	-178.38	-0.4	82.5	97.5	93.7	26.008			
1,200.0	1,199.7	1,187.9	1,184.3	2.1	2.4	-177.49	-0.5	96.6	113.1	109.0	27.636			
1,300.0	1,299.7	1,284.3	1,279.5	2.3	2.7	-176.75	-0.6	112.3	130.4	125.9	29.397			
1,400.0	1,399.7	1,380.8	1,374.4	2.4	3.1	-176.12	-0.7	129.6	149.2	144.5	31.248			
1,500.0	1,499.7	1,478.9	1,470.8	2.6	3.4	-175.61	-0.9	147.6	168.6	163.5	32.932			
1,600.0	1,599.7	1,576.9	1,567.2	2.8	3.7	-175.21	-1.0	165.6	188.0	182.6	34.406			
1,700.0	1,699.7	1,675.0	1,663.6	3.0	4.1	-174.88	-1.1	183.6	207.5	201.6	35.708			
1,800.0	1,799.7	1,773.1	1,760.1	3.1	4.4	-174.61	-1.3	201.6	226.9	220.7	36.864			
1,900.0	1,899.7	1,871.2	1,856.5	3.3	4.8	-174.38	-1.4	219.7	246.3	239.8	37.899			
2,000.0	1,999.7	1,969.3	1,952.9	3.5	5.1	-174.18	-1.5	237.7	265.7	258.9	38.831			
2,100.0	2,099.6	2,067.4	2,049.3	3.7	5.5	-174.02	-1.6	255.7	285.1	278.0	39.673			
2,200.0	2,199.6	2,165.5	2,145.8	3.8	5.9	-173.87	-1.8	273.7	304.6	297.0	40.439			
2,300.0	2,299.6	2,263.6	2,242.2	4.0	6.2	-173.74	-1.9	291.7	324.0	316.1	41.139			
2,400.0	2,399.6	2,361.7	2,338.6	4.2	6.6	-173.62	-2.0	309.8	343.4	335.2	41.779			
2,500.0	2,499.6	2,459.8	2,435.0	4.4	6.9	-173.52	-2.2	327.8	362.9	354.3	42.369			
2,600.0	2,599.6	2,557.9	2,531.4	4.5	7.3	-173.43	-2.3	345.8	382.3	373.4	42.913			
2,700.0	2,699.6	2,656.0	2,627.9	4.7	7.6	-173.35	-2.4	363.8	401.7	392.5	43.417			
2,800.0	2,799.6	2,754.0	2,724.3	4.9	8.0	-173.27	-2.6	381.8	421.2	411.6	43.884			
2,900.0	2,899.6	2,852.1	2,820.7	5.1	8.4	-173.20	-2.7	399.8	440.6	430.7	44.320			
3,000.0	2,999.6	2,950.2	2,917.1	5.2	8.7	-173.14	-2.8	417.9	460.0	449.8	44.726			
3,100.0	3,099.6	3,048.3	3,013.6	5.4	9.1	-173.08	-3.0	435.9	479.5	468.9	45.106			
3,200.0	3,199.6	3,146.4	3,110.0	5.6	9.4	-173.03	-3.1	453.9	498.9	487.9	45.462			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2G-7H-E168 - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor	
0.0	0.0	2.0	2.0	0.0	0.0	102.24	-7.3	33.6	34.4				
100.0	100.0	102.0	102.0	0.1	0.1	102.24	-7.3	33.6	34.4	34.1	0.27	129.544	
200.0	200.0	202.0	202.0	0.3	0.3	102.24	-7.3	33.6	34.4	33.8	0.61	55.939	
230.6	230.6	232.6	232.6	0.4	0.4	102.24	-7.3	33.6	34.4	33.6	0.72	47.664 CC	
300.0	300.0	301.7	301.7	0.5	0.5	102.22	-7.3	33.8	34.6	33.6	0.96	35.934 ES	
400.0	400.0	401.0	401.0	0.7	0.7	-119.06	-7.6	35.5	36.8	35.5	1.31	28.052	
500.0	500.0	500.0	499.9	0.8	0.8	-122.22	-8.2	39.0	41.6	40.0	1.66	25.053	
600.0	599.9	599.1	598.9	1.0	1.0	-126.18	-9.1	44.1	49.3	47.3	2.02	24.453 SF	
700.0	699.8	697.7	697.2	1.2	1.2	-133.51	-10.3	50.8	59.0	56.6	2.37	24.902	
800.0	799.7	796.0	795.2	1.4	1.4	-147.04	-11.8	59.2	69.5	66.8	2.72	25.594	
900.0	899.7	894.1	892.7	1.6	1.7	-170.10	-13.6	69.2	81.0	77.9	3.06	26.448	
1,000.0	999.7	991.8	989.7	1.7	1.9	-169.15	-15.6	80.8	94.0	90.6	3.41	27.595	
1,100.0	1,099.7	1,088.9	1,086.0	1.9	2.2	-168.32	-17.9	94.0	108.7	105.0	3.75	28.990	
1,200.0	1,199.7	1,185.6	1,181.5	2.1	2.5	-167.61	-20.5	108.7	125.1	121.0	4.09	30.568	
1,300.0	1,299.7	1,281.9	1,276.3	2.3	2.8	-167.03	-23.3	124.8	143.2	138.7	4.43	32.283	
1,400.0	1,399.7	1,377.9	1,370.7	2.4	3.2	-166.83	-25.5	142.4	162.6	157.8	4.77	34.058	
1,500.0	1,499.7	1,473.4	1,464.3	2.6	3.5	-166.98	-26.9	161.2	183.4	178.3	5.11	35.866	
1,600.0	1,599.7	1,568.3	1,557.0	2.8	3.9	-167.36	-27.4	181.2	205.5	200.1	5.45	37.701	
1,700.0	1,699.7	1,663.5	1,649.9	3.0	4.3	-167.89	-27.2	202.5	228.9	223.1	5.79	39.532	
1,800.0	1,799.7	1,760.7	1,744.5	3.1	4.7	-168.38	-26.7	224.5	252.6	246.4	6.13	41.191	
1,900.0	1,899.7	1,857.8	1,839.1	3.3	5.1	-168.78	-26.3	246.6	276.3	269.8	6.47	42.677	
2,000.0	1,999.7	1,954.9	1,933.7	3.5	5.5	-169.12	-25.9	268.6	300.0	293.1	6.81	44.015	
2,100.0	2,099.6	2,052.1	2,028.3	3.7	5.9	-169.41	-25.4	290.7	323.7	316.5	7.16	45.226	
2,200.0	2,199.6	2,149.2	2,122.9	3.8	6.3	-169.66	-25.0	312.7	347.4	339.9	7.50	46.327	
2,300.0	2,299.6	2,246.4	2,217.5	4.0	6.8	-169.88	-24.6	334.7	371.1	363.3	7.84	47.333	
2,400.0	2,399.6	2,343.5	2,312.1	4.2	7.2	-170.08	-24.1	356.8	394.8	386.7	8.18	48.256	
2,500.0	2,499.6	2,440.6	2,406.7	4.4	7.6	-170.25	-23.7	378.8	418.6	410.1	8.52	49.104	
2,600.0	2,599.6	2,537.8	2,501.3	4.5	8.0	-170.40	-23.3	400.9	442.3	433.4	8.87	49.888	
2,700.0	2,699.6	2,634.9	2,595.9	4.7	8.5	-170.54	-22.8	422.9	466.1	456.8	9.21	50.613	
2,800.0	2,799.6	2,732.0	2,690.5	4.9	8.9	-170.66	-22.4	444.9	489.8	480.2	9.55	51.287	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2H-7H-E168 - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	39.2	39.2				
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	39.2	39.2	38.9	0.27	147.699	
166.0	166.0	168.0	168.0	0.2	0.2	90.00	0.0	39.2	39.2	38.7	0.50	79.058	CC
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	39.2	39.2	38.6	0.61	63.782	ES
300.0	300.0	301.3	301.3	0.5	0.5	90.00	0.0	40.1	40.1	39.1	0.96	41.641	
400.0	400.0	400.5	400.5	0.7	0.7	-130.86	0.0	42.7	43.3	42.0	1.31	33.036	
500.0	500.0	499.5	499.4	0.8	0.8	-133.02	0.0	47.0	49.4	47.7	1.66	29.764	
600.0	599.9	598.1	597.8	1.0	1.0	-135.74	0.0	53.0	58.5	56.5	2.01	29.093	SF
700.0	699.8	696.4	695.8	1.2	1.3	-142.25	0.0	60.7	69.5	67.2	2.36	29.444	
800.0	799.7	794.5	793.4	1.4	1.5	-155.56	0.0	70.0	81.2	78.5	2.71	29.975	
900.0	899.7	892.2	890.5	1.6	1.7	-178.72	0.0	80.9	93.6	90.5	3.05	30.642	
1,000.0	999.7	989.5	987.0	1.7	2.0	-177.91	0.1	93.5	107.5	104.1	3.40	31.634	
1,100.0	1,099.7	1,086.4	1,082.8	1.9	2.3	-177.20	0.1	107.6	123.1	119.3	3.74	32.902	
1,200.0	1,199.7	1,182.6	1,177.8	2.1	2.6	-176.60	0.1	123.2	140.3	136.2	4.08	34.376	
1,300.0	1,299.7	1,278.3	1,272.0	2.3	2.9	-176.09	0.1	140.4	159.2	154.8	4.42	36.005	
1,400.0	1,399.7	1,373.4	1,365.2	2.4	3.3	-175.65	0.1	158.9	179.8	175.0	4.76	37.756	
1,500.0	1,499.7	1,467.8	1,457.4	2.6	3.7	-175.27	0.1	178.9	202.0	196.9	5.10	39.602	
1,600.0	1,599.7	1,561.4	1,548.6	2.8	4.1	-174.94	0.2	200.2	225.7	220.3	5.44	41.524	
1,700.0	1,699.7	1,654.3	1,638.7	3.0	4.5	-174.66	0.2	222.8	251.1	245.3	5.77	43.508	
1,800.0	1,799.7	1,746.3	1,727.6	3.1	4.9	-174.41	0.2	246.6	278.0	271.9	6.10	45.542	
1,900.0	1,899.7	1,837.5	1,815.3	3.3	5.4	-174.20	0.2	271.6	306.5	300.0	6.44	47.617	
2,000.0	1,999.7	1,932.9	1,906.9	3.5	5.9	-174.01	0.2	298.6	335.8	329.0	6.77	49.559	
2,100.0	2,099.6	2,028.6	1,998.6	3.7	6.4	-173.84	0.3	325.6	365.1	357.9	7.11	51.316	
2,200.0	2,199.6	2,124.2	2,090.3	3.8	6.9	-173.71	0.3	352.6	394.3	386.9	7.45	52.913	
2,300.0	2,299.6	2,219.8	2,182.0	4.0	7.4	-173.59	0.3	379.6	423.6	415.8	7.79	54.373	
2,400.0	2,399.6	2,315.4	2,273.7	4.2	7.9	-173.48	0.3	406.6	452.9	444.8	8.13	55.711	
2,500.0	2,499.6	2,411.0	2,365.4	4.4	8.4	-173.39	0.4	433.6	482.2	473.7	8.47	56.943	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-96.20	-7.9	-72.4	72.8					
100.0	100.0	99.0	99.0	0.1	0.1	-96.20	-7.9	-72.4	72.8	72.5	0.26	279.460		
200.0	200.0	199.0	199.0	0.3	0.3	-96.20	-7.9	-72.4	72.8	72.2	0.61	119.511	CC, ES	
300.0	300.0	298.3	298.3	0.5	0.5	-95.66	-7.2	-72.9	73.3	72.3	0.96	76.510		
400.0	400.0	397.5	397.4	0.7	0.7	46.41	-5.3	-74.6	74.2	72.9	1.31	56.698		
500.0	500.0	496.5	496.4	0.8	0.8	50.41	-2.1	-77.4	75.2	73.6	1.67	45.156		
600.0	599.9	595.3	595.0	1.0	1.0	56.21	2.4	-81.3	76.8	74.8	2.03	37.846		
700.0	699.8	693.8	693.2	1.2	1.3	57.76	8.2	-86.4	80.5	78.1	2.39	33.614		
800.0	799.7	792.1	791.1	1.4	1.5	49.81	15.2	-92.5	86.9	84.1	2.75	31.551		
900.0	899.7	890.6	889.0	1.6	1.7	29.82	23.4	-99.7	95.5	92.4	3.11	30.739		
1,000.0	999.7	990.0	987.7	1.7	2.0	33.00	32.0	-107.2	104.9	101.5	3.46	30.322		
1,100.0	1,099.7	1,089.4	1,086.5	1.9	2.2	35.65	40.6	-114.7	114.6	110.8	3.81	30.074		
1,200.0	1,199.7	1,188.8	1,185.2	2.1	2.5	37.89	49.2	-122.2	124.5	120.3	4.16	29.930		
1,300.0	1,299.7	1,288.2	1,284.0	2.3	2.7	39.79	57.7	-129.7	134.5	130.0	4.51	29.852		
1,400.0	1,399.7	1,387.6	1,382.7	2.4	3.0	41.43	66.3	-137.2	144.7	139.8	4.85	29.816		
1,500.0	1,499.7	1,487.0	1,481.5	2.6	3.3	42.86	74.9	-144.7	155.0	149.8	5.20	29.807	SF	
1,600.0	1,599.7	1,586.5	1,580.2	2.8	3.5	44.10	83.5	-152.2	165.3	159.8	5.54	29.816		
1,700.0	1,699.7	1,685.9	1,678.9	3.0	3.8	45.20	92.1	-159.7	175.7	169.9	5.89	29.836		
1,800.0	1,799.7	1,785.3	1,777.7	3.1	4.0	46.18	100.7	-167.2	186.2	180.0	6.24	29.863		
1,900.0	1,899.7	1,884.7	1,876.4	3.3	4.3	47.05	109.3	-174.7	196.7	190.2	6.58	29.894		
2,000.0	1,999.7	1,984.1	1,975.2	3.5	4.6	47.83	117.9	-182.2	207.3	200.4	6.93	29.928		
2,100.0	2,099.6	2,083.5	2,073.9	3.7	4.8	48.54	126.5	-189.7	217.9	210.6	7.27	29.963		
2,200.0	2,199.6	2,182.9	2,172.7	3.8	5.1	49.18	135.1	-197.2	228.5	220.9	7.62	29.998		
2,300.0	2,299.6	2,282.3	2,271.4	4.0	5.3	49.76	143.6	-204.7	239.2	231.2	7.96	30.033		
2,400.0	2,399.6	2,381.7	2,370.2	4.2	5.6	50.30	152.2	-212.2	249.9	241.6	8.31	30.067		
2,500.0	2,499.6	2,481.1	2,468.9	4.4	5.9	50.79	160.8	-219.7	260.6	251.9	8.66	30.100		
2,600.0	2,599.6	2,580.5	2,567.7	4.5	6.1	51.24	169.4	-227.2	271.3	262.3	9.00	30.132		
2,700.0	2,699.6	2,679.9	2,666.4	4.7	6.4	51.66	178.0	-234.7	282.0	272.7	9.35	30.163		
2,800.0	2,799.6	2,779.3	2,765.1	4.9	6.7	52.04	186.6	-242.2	292.8	283.1	9.70	30.193		
2,900.0	2,899.6	2,878.7	2,863.9	5.1	6.9	52.40	195.2	-249.7	303.5	293.5	10.04	30.222		
3,000.0	2,999.6	2,978.1	2,962.6	5.2	7.2	52.74	203.8	-257.2	314.3	303.9	10.39	30.250		
3,100.0	3,099.6	3,077.5	3,061.4	5.4	7.5	53.05	212.4	-264.7	325.1	314.3	10.74	30.276		
3,200.0	3,199.6	3,176.9	3,160.1	5.6	7.7	53.34	221.0	-272.2	335.9	324.8	11.08	30.301		
3,300.0	3,299.6	3,276.3	3,258.9	5.8	8.0	53.62	229.5	-279.7	346.7	335.2	11.43	30.325		
3,400.0	3,399.6	3,375.7	3,357.6	5.9	8.2	53.88	238.1	-287.2	357.5	345.7	11.78	30.348		
3,500.0	3,499.6	3,475.1	3,456.4	6.1	8.5	54.12	246.7	-294.7	368.3	356.2	12.13	30.370		
3,600.0	3,599.6	3,574.5	3,555.1	6.3	8.8	54.35	255.3	-302.2	379.1	366.6	12.47	30.392		
3,700.0	3,699.5	3,673.9	3,653.9	6.5	9.0	54.56	263.9	-309.7	389.9	377.1	12.82	30.412		
3,800.0	3,799.5	3,773.3	3,752.6	6.6	9.3	54.77	272.5	-317.2	400.7	387.6	13.17	30.431		
3,900.0	3,899.5	3,872.7	3,851.4	6.8	9.6	54.96	281.1	-324.7	411.6	398.1	13.52	30.450		
4,000.0	3,999.5	3,972.1	3,950.1	7.0	9.8	55.15	289.7	-332.2	422.4	408.5	13.86	30.468		
4,100.0	4,099.5	4,071.5	4,048.8	7.2	10.1	55.32	298.3	-339.7	433.3	419.0	14.21	30.485		
4,200.0	4,199.5	4,170.9	4,147.6	7.3	10.4	55.49	306.9	-347.2	444.1	429.5	14.56	30.502		
4,300.0	4,299.5	4,270.3	4,246.3	7.5	10.6	55.64	315.4	-354.7	454.9	440.0	14.91	30.518		
4,400.0	4,399.5	4,369.7	4,345.1	7.7	10.9	55.79	324.0	-362.2	465.8	450.5	15.26	30.533		
4,500.0	4,499.5	4,469.1	4,443.8	7.9	11.1	55.94	332.6	-369.7	476.6	461.0	15.60	30.547		
4,600.0	4,599.5	4,568.5	4,542.6	8.0	11.4	56.08	341.2	-377.2	487.5	471.6	15.95	30.562		
4,700.0	4,699.5	4,667.9	4,641.3	8.2	11.7	56.21	349.8	-384.7	498.4	482.1	16.30	30.575		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-91.61	-1.9	-67.3	67.4					
100.0	100.0	99.0	99.0	0.1	0.1	-91.61	-1.9	-67.3	67.4	67.1	0.26	258.616		
200.0	200.0	199.0	199.0	0.3	0.3	-91.61	-1.9	-67.3	67.4	66.8	0.61	110.597		
300.0	300.0	299.0	299.0	0.5	0.5	-91.61	-1.9	-67.3	67.4	66.4	0.96	70.307		
400.0	400.0	398.7	398.7	0.7	0.7	49.65	-1.1	-67.6	67.0	65.7	1.31	51.246		
500.0	500.0	498.2	498.2	0.8	0.8	53.53	1.4	-68.3	66.2	64.5	1.66	39.802		
600.0	599.9	597.5	597.4	1.0	1.0	60.14	5.5	-69.5	65.5	63.4	2.03	32.277		
612.0	611.9	609.4	609.3	1.0	1.0	60.70	6.1	-69.6	65.4	63.4	2.07	31.576	CC, ES	
700.0	699.8	696.5	696.2	1.2	1.2	63.32	11.3	-71.1	66.5	64.1	2.40	27.719		
800.0	799.7	795.4	794.7	1.4	1.4	57.39	18.7	-73.2	70.0	67.2	2.76	25.308		
900.0	899.7	894.8	893.8	1.6	1.6	39.32	27.3	-75.7	75.3	72.2	3.13	24.091		
1,000.0	999.7	994.4	992.9	1.7	1.9	44.14	35.9	-78.1	81.4	77.9	3.48	23.346		
1,100.0	1,099.7	1,094.0	1,092.1	1.9	2.1	48.28	44.5	-80.6	87.9	84.0	3.84	22.892		
1,200.0	1,199.7	1,193.6	1,191.3	2.1	2.3	51.83	53.1	-83.1	94.8	90.6	4.19	22.626		
1,300.0	1,299.7	1,293.2	1,290.5	2.3	2.5	54.89	61.8	-85.5	102.0	97.5	4.54	22.481		
1,400.0	1,399.7	1,392.8	1,389.7	2.4	2.8	57.54	70.4	-88.0	109.5	104.6	4.89	22.415		
1,500.0	1,499.7	1,492.4	1,488.9	2.6	3.0	59.84	79.0	-90.5	117.2	112.0	5.23	22.401		
1,600.0	1,599.7	1,592.0	1,588.1	2.8	3.2	61.86	87.7	-92.9	125.1	119.5	5.58	22.421		
1,700.0	1,699.7	1,691.6	1,687.3	3.0	3.5	63.64	96.3	-95.4	133.0	127.1	5.92	22.463		
1,800.0	1,799.7	1,791.2	1,786.5	3.1	3.7	65.22	104.9	-97.9	141.1	134.9	6.27	22.519		
1,900.0	1,899.7	1,890.8	1,885.7	3.3	3.9	66.62	113.6	-100.3	149.3	142.7	6.61	22.584		
2,000.0	1,999.7	1,990.4	1,984.9	3.5	4.1	67.88	122.2	-102.8	157.6	150.7	6.96	22.653		
2,100.0	2,099.6	2,090.0	2,084.1	3.7	4.4	69.01	130.8	-105.3	166.0	158.7	7.30	22.725		
2,200.0	2,199.6	2,189.6	2,183.3	3.8	4.6	70.04	139.4	-107.7	174.4	166.7	7.65	22.797		
2,300.0	2,299.6	2,289.2	2,282.5	4.0	4.8	70.97	148.1	-110.2	182.8	174.8	7.99	22.869		
2,400.0	2,399.6	2,388.8	2,381.7	4.2	5.1	71.81	156.7	-112.7	191.3	183.0	8.34	22.940		
2,500.0	2,499.6	2,488.4	2,480.9	4.4	5.3	72.59	165.3	-115.1	199.8	191.2	8.69	23.009		
2,600.0	2,599.6	2,588.0	2,580.1	4.5	5.5	73.30	174.0	-117.6	208.4	199.4	9.03	23.076		
2,700.0	2,699.6	2,687.6	2,679.3	4.7	5.8	73.96	182.6	-120.1	217.0	207.6	9.38	23.140		
2,800.0	2,799.6	2,787.2	2,778.5	4.9	6.0	74.56	191.2	-122.5	225.6	215.9	9.72	23.202		
2,900.0	2,899.6	2,886.8	2,877.7	5.1	6.2	75.12	199.9	-125.0	234.3	224.2	10.07	23.262		
3,000.0	2,999.6	2,986.4	2,976.8	5.2	6.5	75.64	208.5	-127.5	243.0	232.5	10.42	23.319		
3,100.0	3,099.6	3,086.0	3,076.0	5.4	6.7	76.13	217.1	-129.9	251.6	240.9	10.77	23.374		
3,200.0	3,199.6	3,185.6	3,175.2	5.6	6.9	76.58	225.7	-132.4	260.3	249.2	11.11	23.427		
3,300.0	3,299.6	3,285.2	3,274.4	5.8	7.2	77.00	234.4	-134.9	269.1	257.6	11.46	23.478		
3,400.0	3,399.6	3,384.8	3,373.6	5.9	7.4	77.40	243.0	-137.3	277.8	266.0	11.81	23.526		
3,500.0	3,499.6	3,484.4	3,472.8	6.1	7.6	77.77	251.6	-139.8	286.5	274.4	12.16	23.573		
3,600.0	3,599.6	3,584.0	3,572.0	6.3	7.9	78.12	260.3	-142.3	295.3	282.8	12.50	23.618		
3,700.0	3,699.5	3,683.6	3,671.2	6.5	8.1	78.45	268.9	-144.7	304.1	291.2	12.85	23.660		
3,800.0	3,799.5	3,783.2	3,770.4	6.6	8.3	78.76	277.5	-147.2	312.8	299.6	13.20	23.702		
3,900.0	3,899.5	3,882.8	3,869.6	6.8	8.6	79.06	286.1	-149.7	321.6	308.1	13.55	23.741		
4,000.0	3,999.5	3,982.4	3,968.8	7.0	8.8	79.34	294.8	-152.1	330.4	316.5	13.89	23.779		
4,100.0	4,099.5	4,082.0	4,068.0	7.2	9.0	79.60	303.4	-154.6	339.2	325.0	14.24	23.815		
4,200.0	4,199.5	4,181.6	4,167.2	7.3	9.3	79.85	312.0	-157.1	348.0	333.4	14.59	23.850		
4,300.0	4,299.5	4,281.2	4,266.4	7.5	9.5	80.09	320.7	-159.5	356.8	341.9	14.94	23.884		
4,400.0	4,399.5	4,380.8	4,365.6	7.7	9.7	80.32	329.3	-162.0	365.6	350.4	15.29	23.916		
4,500.0	4,499.5	4,480.4	4,464.8	7.9	10.0	80.53	337.9	-164.5	374.5	358.8	15.64	23.948		
4,600.0	4,599.5	4,580.0	4,564.0	8.0	10.2	80.74	346.6	-166.9	383.3	367.3	15.99	23.978		
4,700.0	4,699.5	4,679.6	4,663.2	8.2	10.4	80.94	355.2	-169.4	392.1	375.8	16.33	24.007		
4,800.0	4,799.5	4,779.2	4,762.4	8.4	10.7	81.13	363.8	-171.8	401.0	384.3	16.68	24.035		
4,900.0	4,899.5	4,878.8	4,861.6	8.6	10.9	81.31	372.4	-174.3	409.8	392.8	17.03	24.062		
5,000.0	4,999.5	4,978.4	4,960.7	8.7	11.1	81.48	381.1	-176.8	418.7	401.3	17.38	24.088		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,099.5	5,078.0	5,059.9	8.9	11.4	81.65	389.7	-179.2	427.5	409.8	17.73	24.113		
5,200.0	5,199.5	5,177.6	5,159.1	9.1	11.6	81.80	398.3	-181.7	436.4	418.3	18.08	24.137		
5,300.0	5,299.5	5,277.2	5,258.3	9.3	11.8	81.96	407.0	-184.2	445.2	426.8	18.43	24.161		
5,400.0	5,399.4	5,376.8	5,357.5	9.4	12.1	82.10	415.6	-186.6	454.1	435.3	18.78	24.183		
5,500.0	5,499.4	5,476.4	5,456.7	9.6	12.3	82.24	424.2	-189.1	462.9	443.8	19.13	24.205		
5,600.0	5,599.4	5,576.0	5,555.9	9.8	12.5	82.38	432.9	-191.6	471.8	452.3	19.47	24.227		
5,700.0	5,699.4	5,675.6	5,655.1	10.0	12.8	82.51	441.5	-194.0	480.7	460.8	19.82	24.247		
5,800.0	5,799.4	5,775.2	5,754.3	10.1	13.0	82.64	450.1	-196.5	489.5	469.4	20.17	24.267		
5,900.0	5,899.4	5,874.8	5,853.5	10.3	13.2	82.76	458.7	-199.0	498.4	477.9	20.52	24.287		
7,300.0	7,287.4	7,840.5	7,695.5	12.8	14.6	-91.90	261.7	-244.8	488.8	461.7	27.09	18.040		
7,400.0	7,370.5	7,809.5	7,680.6	13.1	14.7	-106.94	288.9	-244.4	395.5	368.1	27.36	14.452		
7,500.0	7,442.7	7,766.2	7,657.3	13.6	14.9	-111.09	325.4	-243.8	307.2	279.7	27.58	11.142		
7,600.0	7,501.8	7,719.7	7,629.4	14.1	15.1	-108.76	362.6	-243.1	228.7	200.4	28.25	8.093		
7,700.0	7,546.0	7,671.8	7,597.6	14.9	15.3	-100.52	398.3	-242.3	169.9	140.3	29.60	5.740		
7,790.8	7,572.1	7,627.8	7,565.8	15.8	15.4	-87.91	428.7	-241.5	149.5	118.7	30.86	4.846		
7,800.0	7,573.9	7,623.3	7,562.4	15.9	15.5	-86.40	431.6	-241.5	149.8	118.8	30.93	4.841 SF		
7,900.0	7,584.9	7,574.4	7,524.2	17.0	15.7	-68.56	462.1	-240.5	175.7	145.0	30.70	5.722		
8,000.0	7,585.0	7,529.5	7,486.9	18.2	15.8	-56.44	487.2	-239.6	230.3	200.7	29.60	7.780		
8,100.0	7,585.0	7,500.0	7,461.4	19.5	15.9	-49.88	502.0	-239.0	301.7	272.7	29.01	10.399		
8,200.0	7,585.0	7,464.5	7,429.8	20.8	16.0	-43.12	518.1	-238.2	381.9	353.9	27.98	13.646		
8,300.0	7,585.0	7,450.0	7,416.6	22.2	16.1	-40.69	524.1	-237.8	467.5	439.4	28.11	16.632		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #1													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	-97.23	-7.9	-62.4	62.9					
100.0	100.0	99.0	99.0	0.1	0.1	-97.23	-7.9	-62.4	62.9	62.6	0.26	241.356		
200.0	200.0	199.0	199.0	0.3	0.3	-97.23	-7.9	-62.4	62.9	62.3	0.61	103.216		
300.0	300.0	299.0	299.0	0.5	0.5	-97.23	-7.9	-62.4	62.9	61.9	0.96	65.615		
400.0	400.0	399.0	399.0	0.7	0.7	43.32	-7.9	-62.4	62.2	60.9	1.31	47.597		
500.0	500.0	499.3	499.3	0.8	0.8	45.81	-7.1	-62.1	60.1	58.4	1.66	36.184		
600.0	599.9	599.4	599.4	1.0	1.0	51.52	-4.6	-61.4	56.4	54.4	2.02	27.923		
700.0	699.8	699.2	699.1	1.2	1.2	54.99	-0.4	-60.2	53.0	50.6	2.39	22.209		
800.0	799.7	798.9	798.6	1.4	1.4	50.99	5.4	-58.6	51.3	48.5	2.76	18.577		
847.9	847.6	846.5	846.1	1.5	1.5	47.26	8.8	-57.6	51.1	48.1	2.94	17.355 CC, ES		
900.0	899.7	898.4	897.8	1.6	1.6	36.67	12.9	-56.4	51.3	48.2	3.14	16.349		
1,000.0	999.7	997.9	996.8	1.7	1.8	46.97	21.6	-53.9	53.3	49.8	3.52	15.142		
1,100.0	1,099.7	1,097.4	1,095.9	1.9	2.0	56.34	30.4	-51.4	56.8	53.0	3.89	14.625		
1,200.0	1,199.7	1,196.9	1,195.0	2.1	2.2	64.43	39.2	-48.9	61.8	57.5	4.24	14.547		
1,300.0	1,299.7	1,296.4	1,294.1	2.3	2.5	71.22	48.1	-46.4	67.7	63.1	4.59	14.736		
1,400.0	1,399.7	1,396.0	1,393.2	2.4	2.7	76.85	56.9	-43.9	74.4	69.5	4.94	15.076		
1,500.0	1,499.7	1,495.5	1,492.3	2.6	2.9	81.52	65.7	-41.4	81.8	76.5	5.28	15.493		
1,600.0	1,599.7	1,595.0	1,591.5	2.8	3.2	85.40	74.5	-38.8	89.6	84.0	5.62	15.943		
1,700.0	1,699.7	1,694.6	1,690.6	3.0	3.4	88.65	83.3	-36.3	97.7	91.7	5.96	16.401		
1,800.0	1,799.7	1,794.1	1,789.7	3.1	3.6	91.39	92.1	-33.8	106.1	99.8	6.30	16.850		
1,900.0	1,899.7	1,893.6	1,888.8	3.3	3.9	93.73	100.9	-31.3	114.7	108.1	6.64	17.283		
2,000.0	1,999.7	1,993.1	1,987.9	3.5	4.1	95.74	109.7	-28.8	123.5	116.5	6.98	17.696		
2,100.0	2,099.6	2,092.7	2,087.0	3.7	4.3	97.48	118.5	-26.3	132.4	125.1	7.32	18.086		
2,200.0	2,199.6	2,192.2	2,186.1	3.8	4.6	99.00	127.3	-23.8	141.4	133.7	7.66	18.454		
2,300.0	2,299.6	2,291.7	2,285.2	4.0	4.8	100.33	136.1	-21.2	150.5	142.5	8.00	18.800		
2,400.0	2,399.6	2,391.3	2,384.3	4.2	5.0	101.52	144.9	-18.7	159.6	151.3	8.35	19.125		
2,500.0	2,499.6	2,490.8	2,483.4	4.4	5.3	102.58	153.7	-16.2	168.9	160.2	8.69	19.430		
2,600.0	2,599.6	2,590.3	2,582.5	4.5	5.5	103.52	162.5	-13.7	178.1	169.1	9.03	19.717		
2,700.0	2,699.6	2,689.8	2,681.6	4.7	5.7	104.37	171.3	-11.2	187.5	178.1	9.38	19.986		
2,800.0	2,799.6	2,789.4	2,780.7	4.9	6.0	105.15	180.1	-8.7	196.8	187.1	9.72	20.239		
2,900.0	2,899.6	2,888.9	2,879.8	5.1	6.2	105.85	188.9	-6.2	206.2	196.1	10.07	20.477		
3,000.0	2,999.6	2,988.4	2,978.9	5.2	6.4	106.49	197.7	-3.6	215.6	205.2	10.42	20.702		
3,100.0	3,099.6	3,087.9	3,078.0	5.4	6.7	107.08	206.5	-1.1	225.1	214.3	10.76	20.914		
3,200.0	3,199.6	3,187.5	3,177.1	5.6	6.9	107.62	215.3	1.4	234.5	223.4	11.11	21.114		
3,300.0	3,299.6	3,287.0	3,276.3	5.8	7.1	108.11	224.1	3.9	244.0	232.5	11.45	21.304		
3,400.0	3,399.6	3,386.5	3,375.4	5.9	7.4	108.57	232.9	6.4	253.5	241.7	11.80	21.483		
3,500.0	3,499.6	3,486.1	3,474.5	6.1	7.6	109.00	241.7	8.9	263.0	250.9	12.15	21.653		
3,600.0	3,599.6	3,585.6	3,573.6	6.3	7.8	109.40	250.6	11.4	272.5	260.0	12.49	21.814		
3,700.0	3,699.5	3,685.1	3,672.7	6.5	8.1	109.77	259.4	13.9	282.1	269.2	12.84	21.967		
3,800.0	3,799.5	3,784.6	3,771.8	6.6	8.3	110.11	268.2	16.5	291.6	278.4	13.19	22.113		
3,900.0	3,899.5	3,884.2	3,870.9	6.8	8.5	110.44	277.0	19.0	301.2	287.6	13.54	22.252		
4,000.0	3,999.5	3,983.7	3,970.0	7.0	8.8	110.74	285.8	21.5	310.8	296.9	13.88	22.384		
4,100.0	4,099.5	4,083.2	4,069.1	7.2	9.0	111.03	294.6	24.0	320.3	306.1	14.23	22.511		
4,200.0	4,199.5	4,182.8	4,168.2	7.3	9.2	111.30	303.4	26.5	329.9	315.3	14.58	22.631		
4,300.0	4,299.5	4,282.3	4,267.3	7.5	9.5	111.55	312.2	29.0	339.5	324.6	14.93	22.747		
4,400.0	4,399.5	4,381.8	4,366.4	7.7	9.7	111.79	321.0	31.5	349.1	333.8	15.27	22.857		
4,500.0	4,499.5	4,481.3	4,465.5	7.9	10.0	112.02	329.8	34.1	358.7	343.1	15.62	22.963		
4,600.0	4,599.5	4,580.9	4,564.6	8.0	10.2	112.24	338.6	36.6	368.3	352.3	15.97	23.064		
4,700.0	4,699.5	4,680.4	4,663.7	8.2	10.4	112.44	347.4	39.1	377.9	361.6	16.32	23.161		
4,800.0	4,799.5	4,779.9	4,762.8	8.4	10.7	112.64	356.2	41.6	387.5	370.9	16.67	23.255		
4,900.0	4,899.5	4,879.5	4,861.9	8.6	10.9	112.82	365.0	44.1	397.2	380.2	17.01	23.344		
5,000.0	4,999.5	4,979.0	4,961.1	8.7	11.1	113.00	373.8	46.6	406.8	389.4	17.36	23.430		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,099.5	5,078.5	5,060.2	8.9	11.4	113.17	382.6	49.1	416.4	398.7	17.71	23.513		
5,200.0	5,199.5	5,178.0	5,159.3	9.1	11.6	113.33	391.4	51.7	426.1	408.0	18.06	23.593		
5,300.0	5,299.5	5,277.6	5,258.4	9.3	11.8	113.48	400.2	54.2	435.7	417.3	18.41	23.670		
5,400.0	5,399.4	5,377.1	5,357.5	9.4	12.1	113.63	409.0	56.7	445.3	426.6	18.76	23.744		
5,500.0	5,499.4	5,476.6	5,456.6	9.6	12.3	113.77	417.8	59.2	455.0	435.9	19.10	23.816		
5,600.0	5,599.4	5,576.1	5,555.7	9.8	12.5	113.90	426.6	61.7	464.6	445.2	19.45	23.885		
5,700.0	5,699.4	5,675.7	5,654.8	10.0	12.8	114.03	435.4	64.2	474.3	454.5	19.80	23.952		
5,800.0	5,799.4	5,775.2	5,753.9	10.1	13.0	114.16	444.2	66.7	483.9	463.8	20.15	24.016		
5,900.0	5,899.4	5,874.7	5,853.0	10.3	13.3	114.27	453.0	69.3	493.6	473.1	20.50	24.079		
7,400.0	7,370.5	7,800.9	7,675.8	13.1	14.8	103.45	293.6	115.5	411.6	384.2	27.39	15.030		
7,500.0	7,442.7	7,760.6	7,653.7	13.6	14.9	106.72	327.3	114.9	330.2	302.5	27.70	11.919		
7,600.0	7,501.8	7,715.6	7,626.3	14.1	15.1	104.59	363.0	114.2	262.0	233.5	28.42	9.216		
7,700.0	7,546.0	7,668.7	7,594.9	14.9	15.3	97.92	397.7	113.4	216.6	187.0	29.65	7.305		
7,779.6	7,569.6	7,630.6	7,567.3	15.7	15.5	89.64	424.0	112.7	204.7	174.0	30.73	6.661		
7,800.0	7,573.9	7,620.8	7,560.0	15.9	15.5	87.15	430.5	112.6	205.5	174.5	30.94	6.641 SF		
7,900.0	7,584.9	7,572.4	7,522.0	17.0	15.7	73.62	460.5	111.6	228.7	197.3	31.32	7.301		
8,000.0	7,585.0	7,527.8	7,484.9	18.2	15.9	64.07	485.2	110.7	275.8	244.7	31.14	8.856		
8,100.0	7,585.0	7,500.0	7,460.9	19.5	16.0	58.81	499.1	110.0	340.2	309.0	31.24	10.888		
8,200.0	7,585.0	7,463.3	7,428.1	20.8	16.1	52.47	515.6	109.2	415.0	384.2	30.79	13.478		
8,300.0	7,585.0	7,450.0	7,416.0	22.2	16.1	50.35	521.1	108.9	496.7	465.4	31.28	15.880		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-91.94	-1.9	-57.3	57.4					
100.0	100.0	99.0	99.0	0.1	0.1	-91.94	-1.9	-57.3	57.4	57.1	0.26	220.251		
200.0	200.0	199.0	199.0	0.3	0.3	-91.94	-1.9	-57.3	57.4	56.8	0.61	94.191		
300.0	300.0	299.0	299.0	0.5	0.5	-91.94	-1.9	-57.3	57.4	56.4	0.96	59.877		
400.0	400.0	399.0	399.0	0.7	0.7	48.72	-1.9	-57.3	56.8	55.5	1.31	43.434		
500.0	500.0	499.0	499.0	0.8	0.8	50.78	-1.9	-57.3	55.1	53.4	1.66	33.213		
600.0	599.9	599.4	599.4	1.0	1.0	55.30	-1.3	-56.8	52.0	50.0	2.02	25.768		
700.0	699.8	699.6	699.5	1.2	1.2	57.39	0.8	-55.2	48.3	45.9	2.38	20.304		
800.0	799.7	799.6	799.5	1.4	1.4	51.99	4.2	-52.5	45.1	42.4	2.74	16.464		
900.0	899.7	899.6	899.2	1.6	1.6	36.94	8.9	-48.6	42.6	39.5	3.11	13.706		
1,000.0	999.7	999.2	998.6	1.7	1.8	48.63	15.0	-43.8	41.2	37.7	3.49	11.809		
1,020.3	1,020.0	1,019.4	1,018.7	1.8	1.8	51.35	16.4	-42.7	41.2	37.6	3.57	11.532 CC, ES		
1,100.0	1,099.7	1,098.6	1,097.5	1.9	2.0	62.84	22.5	-37.8	42.0	38.2	3.88	10.850 SF		
1,200.0	1,199.7	1,197.7	1,196.0	2.1	2.2	77.46	31.1	-30.9	46.1	41.9	4.25	10.863		
1,300.0	1,299.7	1,296.9	1,294.6	2.3	2.5	89.42	40.1	-23.8	52.9	48.3	4.60	11.519		
1,400.0	1,399.7	1,396.2	1,393.1	2.4	2.7	98.39	49.0	-16.6	61.5	56.6	4.93	12.466		
1,500.0	1,499.7	1,495.4	1,491.7	2.6	2.9	105.06	58.0	-9.5	71.2	65.9	5.27	13.516		
1,600.0	1,599.7	1,594.6	1,590.3	2.8	3.2	110.08	66.9	-2.3	81.6	76.0	5.60	14.570		
1,700.0	1,699.7	1,693.9	1,688.8	3.0	3.4	113.96	75.9	4.8	92.5	86.6	5.94	15.584		
1,800.0	1,799.7	1,793.1	1,787.4	3.1	3.7	117.00	84.8	12.0	103.7	97.5	6.27	16.538		
1,900.0	1,899.7	1,892.3	1,886.0	3.3	4.0	119.45	93.7	19.1	115.2	108.6	6.61	17.426		
2,000.0	1,999.7	1,991.6	1,984.5	3.5	4.2	121.45	102.7	26.3	126.8	119.9	6.95	18.248		
2,100.0	2,099.6	2,090.8	2,083.1	3.7	4.5	123.12	111.6	33.4	138.6	131.3	7.29	19.009		
2,200.0	2,199.6	2,190.0	2,181.7	3.8	4.7	124.52	120.6	40.6	150.4	142.8	7.63	19.712		
2,300.0	2,299.6	2,289.3	2,280.2	4.0	5.0	125.72	129.5	47.7	162.4	154.4	7.97	20.363		
2,400.0	2,399.6	2,388.5	2,378.8	4.2	5.2	126.75	138.5	54.9	174.4	166.0	8.32	20.966		
2,500.0	2,499.6	2,487.7	2,477.4	4.4	5.5	127.65	147.4	62.0	186.4	177.7	8.66	21.525		
2,600.0	2,599.6	2,586.9	2,576.0	4.5	5.8	128.45	156.4	69.2	198.5	189.5	9.00	22.045		
2,700.0	2,699.6	2,686.2	2,674.5	4.7	6.0	129.15	165.3	76.3	210.6	201.3	9.35	22.529		
2,800.0	2,799.6	2,785.4	2,773.1	4.9	6.3	129.77	174.3	83.5	222.7	213.1	9.69	22.981		
2,900.0	2,899.6	2,884.6	2,871.7	5.1	6.6	130.33	183.2	90.6	234.9	224.9	10.04	23.403		
3,000.0	2,999.6	2,983.9	2,970.2	5.2	6.8	130.84	192.2	97.8	247.1	236.7	10.38	23.799		
3,100.0	3,099.6	3,083.1	3,068.8	5.4	7.1	131.29	201.1	104.9	259.3	248.6	10.73	24.170		
3,200.0	3,199.6	3,182.3	3,167.4	5.6	7.3	131.71	210.0	112.1	271.5	260.4	11.07	24.519		
3,300.0	3,299.6	3,281.6	3,265.9	5.8	7.6	132.09	219.0	119.2	283.7	272.3	11.42	24.848		
3,400.0	3,399.6	3,380.8	3,364.5	5.9	7.9	132.44	227.9	126.4	296.0	284.2	11.77	25.158		
3,500.0	3,499.6	3,480.0	3,463.1	6.1	8.1	132.76	236.9	133.5	308.2	296.1	12.11	25.451		
3,600.0	3,599.6	3,579.3	3,561.6	6.3	8.4	133.06	245.8	140.7	320.5	308.0	12.46	25.728		
3,700.0	3,699.5	3,678.5	3,660.2	6.5	8.7	133.33	254.8	147.8	332.8	320.0	12.80	25.990		
3,800.0	3,799.5	3,777.7	3,758.8	6.6	8.9	133.58	263.7	155.0	345.0	331.9	13.15	26.239		
3,900.0	3,899.5	3,877.0	3,857.4	6.8	9.2	133.82	272.7	162.1	357.3	343.8	13.50	26.475		
4,000.0	3,999.5	3,976.2	3,955.9	7.0	9.4	134.04	281.6	169.3	369.6	355.8	13.84	26.700		
4,100.0	4,099.5	4,075.4	4,054.5	7.2	9.7	134.25	290.6	176.4	381.9	367.7	14.19	26.914		
4,200.0	4,199.5	4,174.7	4,153.1	7.3	10.0	134.45	299.5	183.6	394.2	379.7	14.54	27.118		
4,300.0	4,299.5	4,273.9	4,251.6	7.5	10.2	134.63	308.5	190.7	406.5	391.6	14.88	27.313		
4,400.0	4,399.5	4,373.1	4,350.2	7.7	10.5	134.80	317.4	197.9	418.8	403.6	15.23	27.499		
4,500.0	4,499.5	4,472.4	4,448.8	7.9	10.8	134.96	326.4	205.0	431.1	415.5	15.58	27.676		
4,600.0	4,599.5	4,571.6	4,547.3	8.0	11.0	135.12	335.3	212.2	443.4	427.5	15.92	27.846		
4,700.0	4,699.5	4,670.8	4,645.9	8.2	11.3	135.26	344.2	219.3	455.8	439.5	16.27	28.009		
4,800.0	4,799.5	4,770.1	4,744.5	8.4	11.6	135.40	353.2	226.5	468.1	451.4	16.62	28.166		
4,900.0	4,899.5	4,869.3	4,843.0	8.6	11.8	135.53	362.1	233.6	480.4	463.4	16.97	28.316		
5,000.0	4,999.5	4,968.5	4,941.6	8.7	12.1	135.65	371.1	240.8	492.7	475.4	17.31	28.460		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #1														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	-100.71	-8.0	-42.4	43.1						
100.0	100.0	99.0	99.0	0.1	0.1	-100.71	-8.0	-42.4	43.1	42.9	0.26	165.544			
200.0	200.0	199.0	199.0	0.3	0.3	-100.71	-8.0	-42.4	43.1	42.5	0.61	70.795			
300.0	300.0	299.0	299.0	0.5	0.5	-100.71	-8.0	-42.4	43.1	42.2	0.96	45.004			
400.0	400.0	399.0	399.0	0.7	0.7	40.04	-8.0	-42.4	42.5	41.1	1.31	32.468			
500.0	500.0	499.0	499.0	0.8	0.8	42.43	-8.0	-42.4	40.5	38.8	1.66	24.412			
600.0	599.9	598.9	598.9	1.0	1.0	46.97	-8.0	-42.4	37.4	35.4	2.01	18.565			
700.0	699.8	698.8	698.8	1.2	1.2	47.45	-8.0	-42.4	34.4	32.1	2.37	14.532			
800.0	799.7	798.7	798.7	1.4	1.4	37.59	-8.0	-42.4	32.5	29.8	2.72	11.950			
900.0	899.7	898.7	898.7	1.6	1.5	14.62	-8.0	-42.4	31.3	28.3	3.07	10.207			
1,000.0	999.7	998.7	998.7	1.7	1.7	15.15	-8.0	-42.4	30.3	26.8	3.42	8.854			
1,100.0	1,099.7	1,099.1	1,099.1	1.9	1.9	16.92	-7.5	-41.7	28.6	24.8	3.77	7.589			
1,200.0	1,199.7	1,199.3	1,199.3	2.1	2.1	21.79	-5.9	-39.6	25.8	21.7	4.12	6.264			
1,300.0	1,299.7	1,299.4	1,299.3	2.3	2.2	31.52	-3.3	-36.1	22.3	17.9	4.48	4.988			
1,400.0	1,399.7	1,399.3	1,399.0	2.4	2.4	49.23	0.4	-31.3	19.3	14.4	4.84	3.980			
1,460.5	1,460.2	1,459.6	1,459.1	2.5	2.5	64.61	3.1	-27.7	18.6	13.5	5.07	3.662 CC, ES			
1,500.0	1,499.7	1,498.9	1,498.3	2.6	2.6	75.77	5.1	-25.1	18.9	13.7	5.21	3.633 SF			
1,600.0	1,599.7	1,598.2	1,597.1	2.8	2.8	101.73	10.8	-17.5	23.5	17.9	5.56	4.223			
1,700.0	1,699.7	1,697.0	1,695.3	3.0	3.0	118.91	17.5	-8.6	32.5	26.6	5.89	5.520			
1,800.0	1,799.7	1,795.5	1,792.9	3.1	3.3	129.02	25.3	1.6	44.7	38.5	6.22	7.190			
1,900.0	1,899.7	1,893.4	1,889.8	3.3	3.5	135.15	33.9	13.0	59.4	52.8	6.56	9.054			
2,000.0	1,999.7	1,991.3	1,986.4	3.5	3.8	139.10	43.5	25.7	75.9	69.0	6.90	11.008			
2,100.0	2,099.6	2,089.8	2,083.5	3.7	4.1	141.67	53.3	38.6	93.0	85.7	7.24	12.842			
2,200.0	2,199.6	2,188.2	2,180.6	3.8	4.4	143.45	63.1	51.6	110.2	102.6	7.58	14.526			
2,300.0	2,299.6	2,286.7	2,277.8	4.0	4.7	144.74	72.9	64.5	127.4	119.5	7.93	16.073			
2,400.0	2,399.6	2,385.2	2,374.9	4.2	5.0	145.73	82.7	77.5	144.7	136.4	8.27	17.496			
2,500.0	2,499.6	2,483.6	2,472.0	4.4	5.3	146.51	92.5	90.4	162.0	153.4	8.62	18.808			
2,600.0	2,599.6	2,582.1	2,569.1	4.5	5.6	147.13	102.3	103.4	179.4	170.4	8.96	20.022			
2,700.0	2,699.6	2,680.6	2,666.2	4.7	5.9	147.65	112.1	116.3	196.8	187.5	9.31	21.147			
2,800.0	2,799.6	2,779.0	2,763.3	4.9	6.2	148.08	121.9	129.3	214.2	204.5	9.65	22.193			
2,900.0	2,899.6	2,877.5	2,860.5	5.1	6.5	148.45	131.7	142.2	231.6	221.6	9.99	23.167			
3,000.0	2,999.6	2,976.0	2,957.6	5.2	6.8	148.76	141.5	155.2	249.0	238.6	10.34	24.078			
3,100.0	3,099.6	3,074.4	3,054.7	5.4	7.2	149.04	151.3	168.1	266.4	255.7	10.69	24.929			
3,200.0	3,199.6	3,172.9	3,151.8	5.6	7.5	149.28	161.2	181.0	283.8	272.8	11.03	25.728			
3,300.0	3,299.6	3,271.4	3,248.9	5.8	7.8	149.49	171.0	194.0	301.2	289.8	11.38	26.479			
3,400.0	3,399.6	3,369.8	3,346.0	5.9	8.1	149.68	180.8	206.9	318.6	306.9	11.72	27.186			
3,500.0	3,499.6	3,468.3	3,443.2	6.1	8.4	149.85	190.6	219.9	336.1	324.0	12.07	27.852			
3,600.0	3,599.6	3,566.8	3,540.3	6.3	8.8	150.00	200.4	232.8	353.5	341.1	12.41	28.481			
3,700.0	3,699.5	3,665.2	3,637.4	6.5	9.1	150.14	210.2	245.8	370.9	358.2	12.76	29.077			
3,800.0	3,799.5	3,763.7	3,734.5	6.6	9.4	150.27	220.0	258.7	388.4	375.2	13.10	29.641			
3,900.0	3,899.5	3,862.2	3,831.6	6.8	9.7	150.38	229.8	271.7	405.8	392.3	13.45	30.176			
4,000.0	3,999.5	3,960.6	3,928.7	7.0	10.1	150.49	239.6	284.6	423.2	409.4	13.79	30.685			
4,100.0	4,099.5	4,059.1	4,025.9	7.2	10.4	150.59	249.4	297.5	440.7	426.5	14.14	31.169			
4,200.0	4,199.5	4,157.5	4,123.0	7.3	10.7	150.68	259.2	310.5	458.1	443.6	14.48	31.630			
4,300.0	4,299.5	4,256.0	4,220.1	7.5	11.0	150.76	269.0	323.4	475.5	460.7	14.83	32.069			
4,400.0	4,399.5	4,354.5	4,317.2	7.7	11.4	150.84	278.8	336.4	493.0	477.8	15.17	32.488			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-93.13	-2.0	-37.3	37.4				
100.0	100.0	99.0	99.0	0.1	0.1	-93.13	-2.0	-37.3	37.4	37.1	0.26	143.562	
200.0	200.0	199.0	199.0	0.3	0.3	-93.13	-2.0	-37.3	37.4	36.8	0.61	61.394	
300.0	300.0	299.0	299.0	0.5	0.5	-93.13	-2.0	-37.3	37.4	36.4	0.96	39.029	
400.0	400.0	399.6	399.6	0.7	0.7	48.48	-1.6	-36.6	36.0	34.7	1.31	27.534	
500.0	500.0	499.9	499.9	0.8	0.8	54.12	-0.4	-34.3	32.1	30.4	1.66	19.315	
600.0	599.9	600.0	599.8	1.0	1.0	66.93	1.6	-30.4	26.5	24.5	2.03	13.065	
700.0	699.8	699.7	699.4	1.2	1.2	84.29	4.5	-25.0	21.9	19.5	2.41	9.090	
776.1	775.8	775.4	774.9	1.3	1.4	97.17	7.2	-19.9	20.7	18.0	2.71	7.642 CC, ES	
800.0	799.7	799.2	798.6	1.4	1.4	99.25	8.2	-18.1	20.8	18.0	2.80	7.441 SF	
900.0	899.7	898.5	897.4	1.6	1.7	101.84	12.6	-9.8	24.1	21.0	3.16	7.638	
1,000.0	999.7	997.4	995.7	1.7	1.9	121.19	17.9	0.1	32.1	28.6	3.49	9.207	
1,100.0	1,099.7	1,095.9	1,093.3	1.9	2.2	133.18	23.9	11.4	43.7	39.9	3.81	11.475	
1,200.0	1,199.7	1,193.8	1,190.2	2.1	2.5	140.55	30.6	24.1	58.1	53.9	4.14	14.020	
1,300.0	1,299.7	1,291.2	1,286.3	2.3	2.8	145.30	38.1	38.2	74.6	70.1	4.47	16.669	
1,400.0	1,399.7	1,388.0	1,381.5	2.4	3.1	148.53	46.3	53.6	93.1	88.3	4.81	19.351	
1,500.0	1,499.7	1,485.8	1,477.5	2.6	3.4	150.80	55.0	70.0	112.7	107.6	5.15	21.894	
1,600.0	1,599.7	1,583.8	1,573.7	2.8	3.8	152.39	63.8	86.5	132.5	127.0	5.49	24.139	
1,700.0	1,699.7	1,681.8	1,669.9	3.0	4.1	153.58	72.5	103.0	152.3	146.5	5.83	26.131	
1,800.0	1,799.7	1,779.7	1,766.1	3.1	4.5	154.49	81.3	119.4	172.2	166.1	6.17	27.907	
1,900.0	1,899.7	1,877.7	1,862.2	3.3	4.9	155.21	90.0	135.9	192.2	185.6	6.51	29.501	
2,000.0	1,999.7	1,975.7	1,958.4	3.5	5.2	155.79	98.8	152.3	212.1	205.3	6.86	30.937	
2,100.0	2,099.6	2,073.6	2,054.6	3.7	5.6	156.28	107.5	168.8	232.1	224.9	7.20	32.238	
2,200.0	2,199.6	2,171.6	2,150.8	3.8	5.9	156.69	116.3	185.3	252.1	244.5	7.54	33.422	
2,300.0	2,299.6	2,269.6	2,247.0	4.0	6.3	157.04	125.0	201.7	272.0	264.2	7.88	34.503	
2,400.0	2,399.6	2,367.6	2,343.1	4.2	6.7	157.34	133.8	218.2	292.0	283.8	8.23	35.495	
2,500.0	2,499.6	2,465.5	2,439.3	4.4	7.0	157.60	142.5	234.6	312.1	303.5	8.57	36.407	
2,600.0	2,599.6	2,563.5	2,535.5	4.5	7.4	157.83	151.3	251.1	332.1	323.2	8.91	37.250	
2,700.0	2,699.6	2,661.5	2,631.7	4.7	7.8	158.03	160.0	267.6	352.1	342.8	9.26	38.030	
2,800.0	2,799.6	2,759.4	2,727.8	4.9	8.1	158.21	168.7	284.0	372.1	362.5	9.60	38.755	
2,900.0	2,899.6	2,857.4	2,824.0	5.1	8.5	158.38	177.5	300.5	392.1	382.2	9.95	39.429	
3,000.0	2,999.6	2,955.4	2,920.2	5.2	8.9	158.53	186.2	316.9	412.1	401.9	10.29	40.059	
3,100.0	3,099.6	3,053.3	3,016.4	5.4	9.2	158.66	195.0	333.4	432.2	421.5	10.63	40.648	
3,200.0	3,199.6	3,151.3	3,112.6	5.6	9.6	158.78	203.7	349.9	452.2	441.2	10.98	41.200	
3,300.0	3,299.6	3,249.3	3,208.7	5.8	10.0	158.89	212.5	366.3	472.2	460.9	11.32	41.719	
3,400.0	3,399.6	3,347.2	3,304.9	5.9	10.3	159.00	221.2	382.8	492.3	480.6	11.66	42.207	

Cathedral Energy Services

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
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Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-103.99	-8.1	-32.4	33.4					
100.0	100.0	99.0	99.0	0.1	0.1	-103.99	-8.1	-32.4	33.4	33.1	0.26	128.070		
200.0	200.0	199.0	199.0	0.3	0.3	-103.99	-8.1	-32.4	33.4	32.8	0.61	54.769		
300.0	300.0	299.6	299.6	0.5	0.5	-103.77	-7.7	-31.6	32.5	31.6	0.96	33.885		
400.0	400.0	400.0	400.0	0.7	0.7	38.03	-6.7	-29.1	29.2	27.9	1.31	22.327		
500.0	500.0	500.3	500.1	0.8	0.8	44.08	-5.1	-25.1	23.0	21.3	1.66	13.842		
600.0	599.9	600.0	599.7	1.0	1.0	62.90	-2.8	-19.5	14.8	12.8	2.04	7.272		
692.5	692.3	692.0	691.4	1.2	1.2	106.56	0.0	-12.8	10.4	7.9	2.43	4.259 CC, ES		
700.0	699.8	699.4	698.8	1.2	1.3	111.01	0.2	-12.2	10.4	7.9	2.46	4.223 SF		
800.0	799.7	798.6	797.5	1.4	1.5	145.97	3.8	-3.5	16.3	13.5	2.78	5.854		
900.0	899.7	897.5	895.8	1.6	1.7	141.21	8.0	6.9	26.7	23.6	3.09	8.652		
1,000.0	999.7	996.0	993.4	1.7	2.0	150.02	12.9	18.7	39.9	36.5	3.42	11.655		
1,100.0	1,099.7	1,093.9	1,090.3	1.9	2.3	154.77	18.4	32.0	55.2	51.4	3.76	14.671		
1,200.0	1,199.7	1,191.3	1,186.4	2.1	2.6	157.65	24.4	46.8	72.3	68.2	4.10	17.640		
1,300.0	1,299.7	1,288.1	1,281.6	2.3	3.0	159.54	31.1	62.9	91.2	86.8	4.44	20.551		
1,400.0	1,399.7	1,384.2	1,375.8	2.4	3.3	160.85	38.3	80.4	111.8	107.1	4.78	23.409		
1,500.0	1,499.7	1,479.7	1,469.0	2.6	3.7	161.81	46.0	99.3	134.1	129.0	5.12	26.218		
1,600.0	1,599.7	1,575.0	1,561.9	2.8	4.1	162.53	54.3	119.5	158.0	152.6	5.45	28.970		
1,700.0	1,699.7	1,672.0	1,656.2	3.0	4.5	163.08	62.9	140.4	182.3	176.5	5.80	31.461		
1,800.0	1,799.7	1,769.0	1,750.5	3.1	5.0	163.50	71.5	161.3	206.7	200.5	6.14	33.678		
1,900.0	1,899.7	1,866.0	1,844.8	3.3	5.4	163.83	80.1	182.3	231.0	224.5	6.48	35.662		
2,000.0	1,999.7	1,963.0	1,939.1	3.5	5.8	164.10	88.7	203.2	255.4	248.6	6.82	37.448		
2,100.0	2,099.6	2,059.9	2,033.4	3.7	6.2	164.32	97.3	224.1	279.7	272.6	7.16	39.064		
2,200.0	2,199.6	2,156.9	2,127.7	3.8	6.7	164.51	105.9	245.1	304.1	296.6	7.50	40.533		
2,300.0	2,299.6	2,253.9	2,222.0	4.0	7.1	164.67	114.5	266.0	328.4	320.6	7.84	41.875		
2,400.0	2,399.6	2,350.9	2,316.3	4.2	7.5	164.80	123.1	286.9	352.8	344.6	8.19	43.104		
2,500.0	2,499.6	2,447.9	2,410.6	4.4	8.0	164.92	131.7	307.9	377.2	368.7	8.53	44.236		
2,600.0	2,599.6	2,544.9	2,504.9	4.5	8.4	165.03	140.3	328.8	401.5	392.7	8.87	45.280		
2,700.0	2,699.6	2,641.8	2,599.2	4.7	8.8	165.12	148.9	349.7	425.9	416.7	9.21	46.247		
2,800.0	2,799.6	2,738.8	2,693.5	4.9	9.2	165.20	157.5	370.7	450.3	440.7	9.55	47.145		
2,900.0	2,899.6	2,835.8	2,787.8	5.1	9.7	165.27	166.1	391.6	474.7	464.8	9.89	47.980		
3,000.0	2,999.6	2,932.8	2,882.2	5.2	10.1	165.34	174.7	412.5	499.0	488.8	10.23	48.761		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2B-7H-E168
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5020.0ft (Original Well Elev)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky)	MD Reference:	WELL @ 5020.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2B-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5020.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

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

