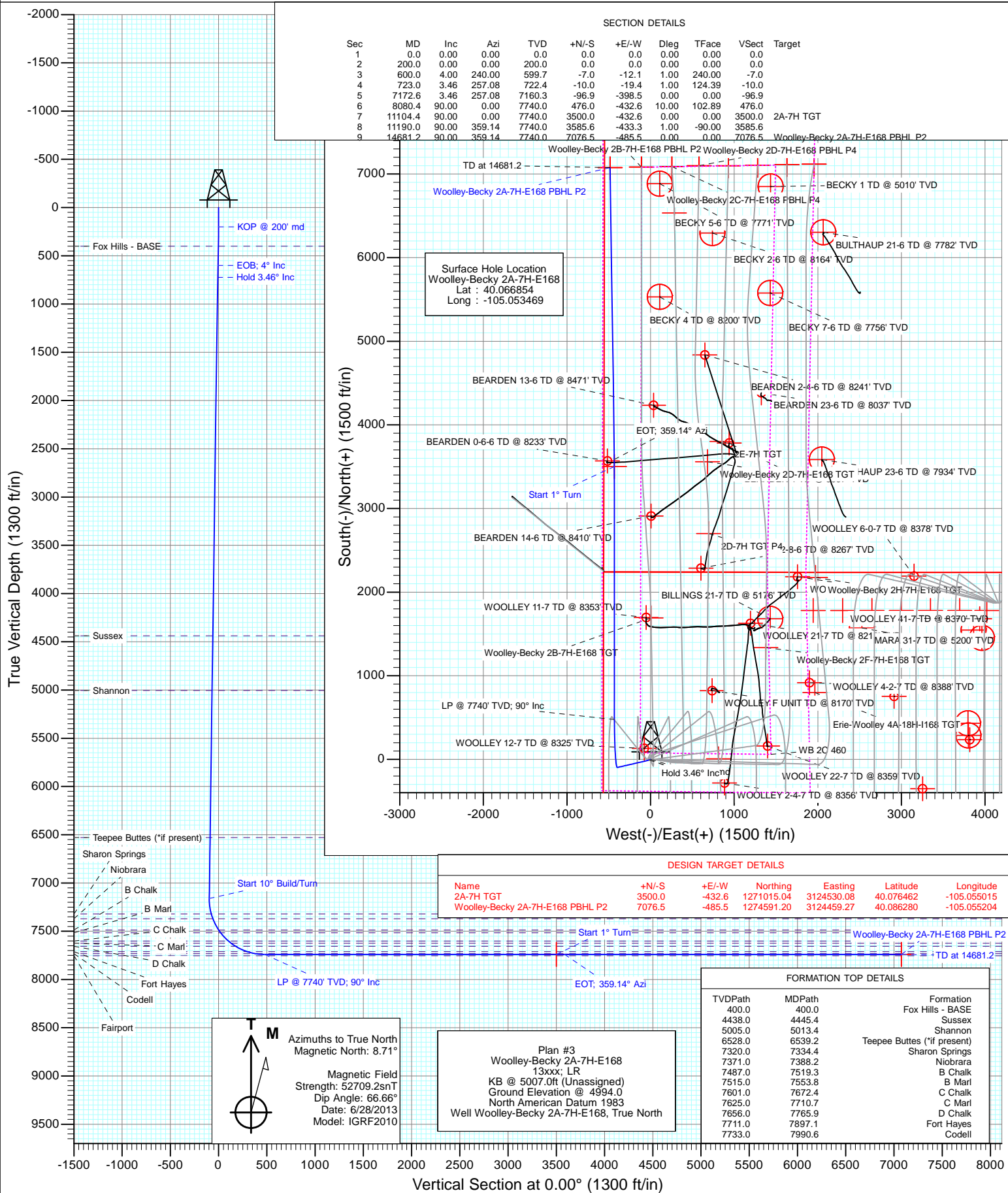




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2A-7H-E168
Wellbore: Hz
Design: Plan #3



Cathedral Energy Services

Planning Report

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

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

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

Well	Woolley-Becky 2A-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.26 ft	Latitude:	40.066854
	+E/-W	0.0 ft	Easting:	3,124,980.35 ft	Longitude:	-105.053469
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,994.0 ft

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

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	0.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	4.00	240.00	599.7	-7.0	-12.1	1.00	1.00	0.00	240.00	
723.0	3.46	257.08	722.4	-10.0	-19.4	1.00	-0.44	13.89	124.39	
7,172.6	3.46	257.08	7,160.3	-96.9	-398.5	0.00	0.00	0.00	0.00	
8,080.4	90.00	0.00	7,740.0	476.0	-432.6	10.00	9.53	11.34	102.89	
11,104.4	90.00	0.00	7,740.0	3,500.0	-432.6	0.00	0.00	0.00	0.00	2A-7H TGT
11,190.0	90.00	359.14	7,740.0	3,585.6	-433.3	1.00	0.00	-1.00	-90.00	
14,681.2	90.00	359.14	7,740.0	7,076.5	-485.5	0.00	0.00	0.00	0.00	Woolley-Becky 2A-7H

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200' md
300.0	1.00	240.00	300.0	-0.4	-0.8	-0.4	1.00	1.00	
400.0	2.00	240.00	400.0	-1.7	-3.0	-1.7	1.00	1.00	Fox Hills - BASE
500.0	3.00	240.00	499.9	-3.9	-6.8	-3.9	1.00	1.00	
600.0	4.00	240.00	599.7	-7.0	-12.1	-7.0	1.00	1.00	EOB; 4° Inc
700.0	3.53	253.52	699.5	-9.6	-18.1	-9.6	1.00	-0.47	
723.0	3.46	257.08	722.4	-10.0	-19.4	-10.0	1.00	-0.33	Hold 3.46° Inc
800.0	3.46	257.08	799.3	-11.0	-23.9	-11.0	0.00	0.00	
900.0	3.46	257.08	899.1	-12.3	-29.8	-12.3	0.00	0.00	
1,000.0	3.46	257.08	998.9	-13.7	-35.7	-13.7	0.00	0.00	
1,100.0	3.46	257.08	1,098.7	-15.0	-41.6	-15.0	0.00	0.00	
1,200.0	3.46	257.08	1,198.6	-16.4	-47.5	-16.4	0.00	0.00	
1,300.0	3.46	257.08	1,298.4	-17.7	-53.3	-17.7	0.00	0.00	
1,400.0	3.46	257.08	1,398.2	-19.1	-59.2	-19.1	0.00	0.00	
1,500.0	3.46	257.08	1,498.0	-20.4	-65.1	-20.4	0.00	0.00	
1,600.0	3.46	257.08	1,597.8	-21.8	-71.0	-21.8	0.00	0.00	
1,700.0	3.46	257.08	1,697.6	-23.1	-76.8	-23.1	0.00	0.00	
1,800.0	3.46	257.08	1,797.5	-24.5	-82.7	-24.5	0.00	0.00	
1,900.0	3.46	257.08	1,897.3	-25.8	-88.6	-25.8	0.00	0.00	
2,000.0	3.46	257.08	1,997.1	-27.2	-94.5	-27.2	0.00	0.00	
2,100.0	3.46	257.08	2,096.9	-28.5	-100.4	-28.5	0.00	0.00	
2,200.0	3.46	257.08	2,196.7	-29.9	-106.2	-29.9	0.00	0.00	
2,300.0	3.46	257.08	2,296.5	-31.2	-112.1	-31.2	0.00	0.00	
2,400.0	3.46	257.08	2,396.4	-32.6	-118.0	-32.6	0.00	0.00	
2,500.0	3.46	257.08	2,496.2	-33.9	-123.9	-33.9	0.00	0.00	
2,600.0	3.46	257.08	2,596.0	-35.3	-129.7	-35.3	0.00	0.00	
2,700.0	3.46	257.08	2,695.8	-36.6	-135.6	-36.6	0.00	0.00	
2,800.0	3.46	257.08	2,795.6	-38.0	-141.5	-38.0	0.00	0.00	
2,900.0	3.46	257.08	2,895.5	-39.3	-147.4	-39.3	0.00	0.00	
3,000.0	3.46	257.08	2,995.3	-40.6	-153.3	-40.6	0.00	0.00	
3,100.0	3.46	257.08	3,095.1	-42.0	-159.1	-42.0	0.00	0.00	
3,200.0	3.46	257.08	3,194.9	-43.3	-165.0	-43.3	0.00	0.00	
3,300.0	3.46	257.08	3,294.7	-44.7	-170.9	-44.7	0.00	0.00	
3,400.0	3.46	257.08	3,394.5	-46.0	-176.8	-46.0	0.00	0.00	
3,500.0	3.46	257.08	3,494.4	-47.4	-182.6	-47.4	0.00	0.00	
3,600.0	3.46	257.08	3,594.2	-48.7	-188.5	-48.7	0.00	0.00	
3,700.0	3.46	257.08	3,694.0	-50.1	-194.4	-50.1	0.00	0.00	
3,800.0	3.46	257.08	3,793.8	-51.4	-200.3	-51.4	0.00	0.00	
3,900.0	3.46	257.08	3,893.6	-52.8	-206.2	-52.8	0.00	0.00	
4,000.0	3.46	257.08	3,993.5	-54.1	-212.0	-54.1	0.00	0.00	
4,100.0	3.46	257.08	4,093.3	-55.5	-217.9	-55.5	0.00	0.00	
4,200.0	3.46	257.08	4,193.1	-56.8	-223.8	-56.8	0.00	0.00	
4,300.0	3.46	257.08	4,292.9	-58.2	-229.7	-58.2	0.00	0.00	
4,400.0	3.46	257.08	4,392.7	-59.5	-235.5	-59.5	0.00	0.00	
4,445.4	3.46	257.08	4,438.0	-60.1	-238.2	-60.1	0.00	0.00	Sussex
4,500.0	3.46	257.08	4,492.5	-60.9	-241.4	-60.9	0.00	0.00	
4,600.0	3.46	257.08	4,592.4	-62.2	-247.3	-62.2	0.00	0.00	
4,700.0	3.46	257.08	4,692.2	-63.6	-253.2	-63.6	0.00	0.00	
4,800.0	3.46	257.08	4,792.0	-64.9	-259.1	-64.9	0.00	0.00	
4,900.0	3.46	257.08	4,891.8	-66.3	-264.9	-66.3	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
5,000.0	3.46	257.08	4,991.6	-67.6	-270.8	-67.6	0.00	0.00	
5,013.4	3.46	257.08	5,005.0	-67.8	-271.6	-67.8	0.00	0.00	Shannon
5,100.0	3.46	257.08	5,091.5	-69.0	-276.7	-69.0	0.00	0.00	
5,200.0	3.46	257.08	5,191.3	-70.3	-282.6	-70.3	0.00	0.00	
5,300.0	3.46	257.08	5,291.1	-71.7	-288.4	-71.7	0.00	0.00	
5,400.0	3.46	257.08	5,390.9	-73.0	-294.3	-73.0	0.00	0.00	
5,500.0	3.46	257.08	5,490.7	-74.3	-300.2	-74.3	0.00	0.00	
5,600.0	3.46	257.08	5,590.5	-75.7	-306.1	-75.7	0.00	0.00	
5,700.0	3.46	257.08	5,690.4	-77.0	-312.0	-77.0	0.00	0.00	
5,800.0	3.46	257.08	5,790.2	-78.4	-317.8	-78.4	0.00	0.00	
5,900.0	3.46	257.08	5,890.0	-79.7	-323.7	-79.7	0.00	0.00	
6,000.0	3.46	257.08	5,989.8	-81.1	-329.6	-81.1	0.00	0.00	
6,100.0	3.46	257.08	6,089.6	-82.4	-335.5	-82.4	0.00	0.00	
6,200.0	3.46	257.08	6,189.5	-83.8	-341.3	-83.8	0.00	0.00	
6,300.0	3.46	257.08	6,289.3	-85.1	-347.2	-85.1	0.00	0.00	
6,400.0	3.46	257.08	6,389.1	-86.5	-353.1	-86.5	0.00	0.00	
6,500.0	3.46	257.08	6,488.9	-87.8	-359.0	-87.8	0.00	0.00	
6,539.2	3.46	257.08	6,528.0	-88.4	-361.3	-88.4	0.00	0.00	Teepee Buttes (*if present)
6,600.0	3.46	257.08	6,588.7	-89.2	-364.9	-89.2	0.00	0.00	
6,700.0	3.46	257.08	6,688.5	-90.5	-370.7	-90.5	0.00	0.00	
6,800.0	3.46	257.08	6,788.4	-91.9	-376.6	-91.9	0.00	0.00	
6,900.0	3.46	257.08	6,888.2	-93.2	-382.5	-93.2	0.00	0.00	
7,000.0	3.46	257.08	6,988.0	-94.6	-388.4	-94.6	0.00	0.00	
7,100.0	3.46	257.08	7,087.8	-95.9	-394.2	-95.9	0.00	0.00	
7,172.6	3.46	257.08	7,160.3	-96.9	-398.5	-96.9	0.00	0.00	Start 10° Build/Turn
7,200.0	3.90	300.25	7,187.6	-96.6	-400.1	-96.6	10.00	1.62	
7,300.0	12.42	344.49	7,286.6	-84.5	-406.0	-84.5	10.00	8.52	
7,334.4	15.76	347.96	7,320.0	-76.4	-407.9	-76.4	10.00	9.70	Sharon Springs
7,388.2	21.04	351.20	7,371.0	-59.7	-410.9	-59.7	10.00	9.82	Niobrara
7,400.0	22.21	351.71	7,382.0	-55.4	-411.6	-55.4	10.00	9.87	
7,500.0	32.12	354.62	7,470.8	-10.1	-416.8	-10.1	10.00	9.91	
7,519.3	34.04	355.00	7,487.0	0.4	-417.8	0.4	10.00	9.94	B Chalk
7,553.8	37.48	355.59	7,515.0	20.5	-419.4	20.5	10.00	9.95	B Marl
7,600.0	42.07	356.26	7,550.5	50.0	-421.5	50.0	10.00	9.96	
7,672.4	49.28	357.10	7,601.0	101.6	-424.5	101.6	10.00	9.97	C Chalk
7,700.0	52.04	357.37	7,618.5	123.0	-425.5	123.0	10.00	9.97	
7,710.7	53.10	357.47	7,625.0	131.4	-425.9	131.4	10.00	9.97	C Marl
7,765.9	58.62	357.94	7,656.0	177.1	-427.7	177.1	10.00	9.97	D Chalk
7,800.0	62.02	358.21	7,672.9	206.7	-428.7	206.7	10.00	9.98	
7,897.1	71.71	358.88	7,711.0	295.9	-430.9	295.9	10.00	9.98	Fort Hayes
7,900.0	72.00	358.90	7,711.9	298.6	-431.0	298.6	10.00	9.98	
7,990.6	81.04	359.47	7,733.0	386.6	-432.2	386.6	10.00	9.98	Codell
8,000.0	81.98	359.52	7,734.4	395.9	-432.3	395.9	10.00	9.98	
8,080.4	90.00	0.00	7,740.0	476.0	-432.6	476.0	10.00	9.98	LP @ 7740' TVD; 90° Inc
8,100.0	90.00	0.00	7,740.0	495.6	-432.6	495.6	0.00	0.00	
8,200.0	90.00	0.00	7,740.0	595.6	-432.6	595.6	0.00	0.00	
8,300.0	90.00	0.00	7,740.0	695.6	-432.6	695.6	0.00	0.00	
8,400.0	90.00	0.00	7,740.0	795.6	-432.6	795.6	0.00	0.00	
8,500.0	90.00	0.00	7,740.0	895.6	-432.6	895.6	0.00	0.00	
8,600.0	90.00	0.00	7,740.0	995.6	-432.6	995.6	0.00	0.00	
8,700.0	90.00	0.00	7,740.0	1,095.6	-432.6	1,095.6	0.00	0.00	
8,800.0	90.00	0.00	7,740.0	1,195.6	-432.6	1,195.6	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,900.0	90.00	0.00	7,740.0	1,295.6	-432.6	1,295.6	0.00	0.00	
9,000.0	90.00	0.00	7,740.0	1,395.6	-432.6	1,395.6	0.00	0.00	
9,100.0	90.00	0.00	7,740.0	1,495.6	-432.6	1,495.6	0.00	0.00	
9,200.0	90.00	0.00	7,740.0	1,595.6	-432.6	1,595.6	0.00	0.00	
9,300.0	90.00	0.00	7,740.0	1,695.6	-432.6	1,695.6	0.00	0.00	
9,400.0	90.00	0.00	7,740.0	1,795.6	-432.6	1,795.6	0.00	0.00	
9,500.0	90.00	0.00	7,740.0	1,895.6	-432.6	1,895.6	0.00	0.00	
9,600.0	90.00	0.00	7,740.0	1,995.6	-432.6	1,995.6	0.00	0.00	
9,700.0	90.00	0.00	7,740.0	2,095.6	-432.6	2,095.6	0.00	0.00	
9,800.0	90.00	0.00	7,740.0	2,195.6	-432.6	2,195.6	0.00	0.00	
9,900.0	90.00	0.00	7,740.0	2,295.6	-432.6	2,295.6	0.00	0.00	
10,000.0	90.00	0.00	7,740.0	2,395.6	-432.6	2,395.6	0.00	0.00	
10,100.0	90.00	0.00	7,740.0	2,495.6	-432.6	2,495.6	0.00	0.00	
10,200.0	90.00	0.00	7,740.0	2,595.6	-432.6	2,595.6	0.00	0.00	
10,300.0	90.00	0.00	7,740.0	2,695.6	-432.6	2,695.6	0.00	0.00	
10,400.0	90.00	0.00	7,740.0	2,795.6	-432.6	2,795.6	0.00	0.00	
10,500.0	90.00	0.00	7,740.0	2,895.6	-432.6	2,895.6	0.00	0.00	
10,600.0	90.00	0.00	7,740.0	2,995.6	-432.6	2,995.6	0.00	0.00	
10,700.0	90.00	0.00	7,740.0	3,095.6	-432.6	3,095.6	0.00	0.00	
10,800.0	90.00	0.00	7,740.0	3,195.6	-432.6	3,195.6	0.00	0.00	
10,900.0	90.00	0.00	7,740.0	3,295.6	-432.6	3,295.6	0.00	0.00	
11,000.0	90.00	0.00	7,740.0	3,395.6	-432.6	3,395.6	0.00	0.00	
11,100.0	90.00	0.00	7,740.0	3,495.6	-432.6	3,495.6	0.00	0.00	
11,104.4	90.00	0.00	7,740.0	3,500.0	-432.6	3,500.0	0.00	0.00	Start 1° Turn
11,190.0	90.00	359.14	7,740.0	3,585.6	-433.3	3,585.6	1.00	0.00	EOT; 359.14° Azi
11,200.0	90.00	359.14	7,740.0	3,595.6	-433.4	3,595.6	0.00	0.00	
11,300.0	90.00	359.14	7,740.0	3,695.6	-434.9	3,695.6	0.00	0.00	
11,400.0	90.00	359.14	7,740.0	3,795.6	-436.4	3,795.6	0.00	0.00	
11,500.0	90.00	359.14	7,740.0	3,895.6	-437.9	3,895.6	0.00	0.00	
11,600.0	90.00	359.14	7,740.0	3,995.6	-439.4	3,995.6	0.00	0.00	
11,700.0	90.00	359.14	7,740.0	4,095.6	-440.9	4,095.6	0.00	0.00	
11,800.0	90.00	359.14	7,740.0	4,195.6	-442.4	4,195.6	0.00	0.00	
11,900.0	90.00	359.14	7,740.0	4,295.6	-443.9	4,295.6	0.00	0.00	
12,000.0	90.00	359.14	7,740.0	4,395.5	-445.4	4,395.5	0.00	0.00	
12,100.0	90.00	359.14	7,740.0	4,495.5	-446.9	4,495.5	0.00	0.00	
12,200.0	90.00	359.14	7,740.0	4,595.5	-448.4	4,595.5	0.00	0.00	
12,300.0	90.00	359.14	7,740.0	4,695.5	-449.9	4,695.5	0.00	0.00	
12,400.0	90.00	359.14	7,740.0	4,795.5	-451.4	4,795.5	0.00	0.00	
12,500.0	90.00	359.14	7,740.0	4,895.5	-452.9	4,895.5	0.00	0.00	
12,600.0	90.00	359.14	7,740.0	4,995.5	-454.4	4,995.5	0.00	0.00	
12,700.0	90.00	359.14	7,740.0	5,095.5	-455.9	5,095.5	0.00	0.00	
12,800.0	90.00	359.14	7,740.0	5,195.5	-457.3	5,195.5	0.00	0.00	
12,900.0	90.00	359.14	7,740.0	5,295.4	-458.8	5,295.4	0.00	0.00	
13,000.0	90.00	359.14	7,740.0	5,395.4	-460.3	5,395.4	0.00	0.00	
13,100.0	90.00	359.14	7,740.0	5,495.4	-461.8	5,495.4	0.00	0.00	
13,200.0	90.00	359.14	7,740.0	5,595.4	-463.3	5,595.4	0.00	0.00	
13,300.0	90.00	359.14	7,740.0	5,695.4	-464.8	5,695.4	0.00	0.00	
13,400.0	90.00	359.14	7,740.0	5,795.4	-466.3	5,795.4	0.00	0.00	
13,500.0	90.00	359.14	7,740.0	5,895.4	-467.8	5,895.4	0.00	0.00	
13,600.0	90.00	359.14	7,740.0	5,995.4	-469.3	5,995.4	0.00	0.00	
13,700.0	90.00	359.14	7,740.0	6,095.4	-470.8	6,095.4	0.00	0.00	
13,800.0	90.00	359.14	7,740.0	6,195.3	-472.3	6,195.3	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
13,900.0	90.00	359.14	7,740.0	6,295.3	-473.8	6,295.3	0.00	0.00	
14,000.0	90.00	359.14	7,740.0	6,395.3	-475.3	6,395.3	0.00	0.00	
14,100.0	90.00	359.14	7,740.0	6,495.3	-476.8	6,495.3	0.00	0.00	
14,200.0	90.00	359.14	7,740.0	6,595.3	-478.3	6,595.3	0.00	0.00	
14,300.0	90.00	359.14	7,740.0	6,695.3	-479.8	6,695.3	0.00	0.00	
14,400.0	90.00	359.14	7,740.0	6,795.3	-481.3	6,795.3	0.00	0.00	
14,500.0	90.00	359.14	7,740.0	6,895.3	-482.7	6,895.3	0.00	0.00	
14,600.0	90.00	359.14	7,740.0	6,995.3	-484.2	6,995.3	0.00	0.00	
14,681.2	90.00	359.14	7,740.0	7,076.5	-485.5	7,076.5	0.00	0.00	TD at 14681.2

Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
2A-7H TGT - plan hits target center - Point	0.00	0.00	7,740.0	3,500.0	-432.6	1,271,015.04	3,124,530.08	40.076462	-105.055015
Woolley-Becky 2A-7H-E - plan hits target center - Point	0.00	0.00	7,740.0	7,076.5	-485.5	1,274,591.20	3,124,459.27	40.086280	-105.055204
Woolley-Becky 2A-7H-E - plan misses target center by 64.0ft at 14681.2ft MD (7740.0 TVD, 7076.5 N, -485.5 E) - Point	0.00	0.00	7,804.0	7,076.5	-484.3	1,274,591.21	3,124,460.39	40.086280	-105.055200

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,445.4	4,438.0	Sussex				
5,013.4	5,005.0	Shannon				
6,539.2	6,528.0	Teepee Buttes (*if present)				
7,334.4	7,320.0	Sharon Springs				
7,388.2	7,371.0	Niobrara				
7,519.3	7,487.0	B Chalk				
7,553.8	7,515.0	B Marl				
7,672.4	7,601.0	C Chalk				
7,710.7	7,625.0	C Marl				
7,765.9	7,656.0	D Chalk				
7,897.1	7,711.0	Fort Hayes				
7,990.6	7,733.0	Codell				

Cathedral Energy Services

Planning Report

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

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200' md
600.0	599.7	-7.0	-12.1	EOB; 4° Inc
723.0	722.4	-10.0	-19.4	Hold 3.46° Inc
7,172.6	7,160.3	-96.9	-398.5	Start 10° Build/Turn
8,080.4	7,740.0	476.0	-432.6	LP @ 7740' TVD; 90° Inc
11,104.4	7,740.0	3,500.0	-432.6	Start 1° Turn
11,190.0	7,740.0	3,585.6	-433.3	EOT; 359.14° Azi
14,681.2	7,740.0	7,076.5	-485.5	TD at 14681.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2A-7H-E168

Hz

Plan #3

Anticollision Report

23 June, 2015

Cathedral Energy Services

Anticollision Report

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

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

Survey Tool Program		Date	6/23/2015		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,681.2	Plan #3 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

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

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)		Separation Factor	Warning
Offset Well - Wellbore - Design						
S12-T1N-R69W (Bailey)						
Bailey 43-12 - DD - DD						Out of range
Bailey 43-12 - DD - Plan #1						Out of range
S18-T1N-R68W (Erie Woolley)						
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,259.9	7,951.0	378.0	330.7	7.993	CC, ES, SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SU						Out of range
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
S1-T1N-R69W (Bailey)						
Bailey 8-8-1 - DD - DD	9,882.5	7,953.3	148.6	84.5	2.317	CC
Bailey 8-8-1 - DD - DD	9,900.0	7,953.6	149.6	83.0	2.246	ES, SF
Bailey 8-8-1 - DD - Plan #1	9,857.9	7,916.3	132.9	68.8	2.074	CC, ES
Bailey 8-8-1 - DD - Plan #1	9,900.0	7,916.3	139.4	70.2	2.014	SF
S1-T1N-R69W (Wheeler)						
Wheeler 31-1 - DD - DD						Out of range
Wheeler 31-1 - DD - Plan #1						Out of range
S6-T1N-R68W (Bearden)						
Bearden #1 (Existing Well) - Existing - Existing						Out of range
Bearden 13-6 (Existing Well) - DD - DD	11,800.0	7,848.0	482.7	388.3	5.113	SF
Bearden 13-6 (Existing Well) - DD - DD	11,827.2	7,848.0	482.0	387.9	5.125	CC, ES
Bearden 14-6(Existing Well) - DD - DD	10,507.8	7,889.8	437.6	364.5	5.991	CC, ES, SF
Bearden 24-6 - DD - Plan #1						Out of range

Cathedral Energy Services

Anticollision Report

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

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE	11,166.1	7,969.0	85.1	5.7	1.072	Level 2, CC, ES, SF
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS						Out of range
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,800.0	7,848.0	482.7	388.3	5.113	SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,827.1	7,848.0	482.0	387.9	5.125	CC, ES
BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVE	10,507.8	7,889.8	437.6	364.5	5.991	CC, ES, SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO						Out of range
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,423.9	7,850.5	1,100.8	988.7	9.816	CC, ES
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,500.0	7,850.5	1,103.5	991.0	9.815	SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,883.4	7,919.5	1,037.6	966.9	14.666	CC
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	9,900.0	7,919.6	1,037.8	966.8	14.616	ES
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	10,000.0	7,920.7	1,044.2	972.0	14.461	SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS						Out of range
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,126.9	7,697.0	571.7	458.7	5.059	CC, ES, SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,479.3	7,688.0	591.3	454.8	4.331	CC, ES, SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS						Out of range
Thomas 7-12 (Existing) - Existing - NO SURVEYS	5,042.4	5,021.9	938.4	919.5	49.766	CC
Thomas 7-12 (Existing) - Existing - NO SURVEYS	6,000.0	5,977.8	940.2	917.7	41.834	ES
Thomas 7-12 (Existing) - Existing - NO SURVEYS	7,200.0	7,175.6	948.0	921.0	35.134	SF
WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVE	9,259.9	7,951.0	378.0	330.7	7.993	CC, ES, SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	1,115.2	1,201.9	150.6	146.4	35.884	CC
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	1,300.0	1,386.4	151.0	146.1	30.890	ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SU	7,700.0	7,706.5	349.5	322.4	12.887	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO						Out of range
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE						Out of range
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY						Out of range
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	200.0	200.0	7.3	6.6	11.148	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #3	14,681.2	14,416.6	445.2	230.6	2.075	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	200.0	200.0	14.8	14.2	22.725	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #5	14,681.2	14,633.9	740.1	486.8	2.922	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	200.0	200.0	22.4	21.7	34.301	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #5	14,681.2	14,413.0	1,091.0	844.3	4.422	SF
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	200.0	200.0	29.9	29.3	45.878	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #3	500.0	499.2	37.8	36.1	22.219	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	200.0	200.0	37.5	36.9	57.458	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #4	500.0	498.2	47.9	46.2	28.183	SF
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	200.0	200.0	44.8	44.1	68.605	CC, ES
Woolley-Becky 2G-7H-E168 - Hz - Plan #3	600.0	595.9	67.4	65.4	32.903	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	200.0	200.0	52.3	51.7	80.181	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #4	600.0	594.6	78.4	76.4	38.347	SF
Woolley-Sosa 2A-7H-E168 - Hz - Plan #2	7,802.2	7,803.7	72.0	43.8	2.553	CC, ES, SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	595.5	593.6	37.9	35.8	18.403	CC
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	600.0	598.1	37.9	35.8	18.254	ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	7,513.8	7,788.6	258.4	231.7	9.685	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	682.5	681.6	20.3	17.9	8.444	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	700.0	699.1	20.4	17.9	8.244	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	650.5	649.9	12.2	9.9	5.331	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	700.0	699.2	12.9	10.4	5.229	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	553.6	553.3	6.3	4.4	3.283	CC, ES, SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	350.9	350.9	1.2	0.1	1.051	Level 2, CC, ES, SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	200.0	200.0	7.3	6.6	11.148	CC, ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	300.0	299.8	8.9	7.9	8.872	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 2A-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2A-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S18-T1N-R68W (Erie Woolley) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,300.0	7,740.0	7,895.5	7,735.2	20.6	26.3	81.44	1,652.1	-54.9	1,029.9	986.2	43.72	23.557		
8,400.0	7,740.0	7,900.5	7,740.1	21.8	26.3	82.18	1,652.3	-54.9	937.7	893.5	44.27	21.183		
8,500.0	7,740.0	7,905.7	7,745.3	23.1	26.3	82.95	1,652.7	-54.9	847.3	802.4	44.89	18.878		
8,600.0	7,740.0	7,911.0	7,750.6	24.5	26.3	83.74	1,653.0	-54.8	759.3	713.7	45.58	16.658		
8,700.0	7,740.0	7,916.5	7,756.1	25.9	26.3	84.57	1,653.3	-54.8	674.6	628.2	46.35	14.553		
8,800.0	7,740.0	7,922.2	7,761.8	27.3	26.3	85.43	1,653.7	-54.8	594.5	547.4	47.16	12.605		
8,900.0	7,740.0	7,930.0	7,769.5	28.8	26.3	86.60	1,654.2	-54.8	521.4	473.4	47.94	10.876		
9,000.0	7,740.0	7,930.0	7,769.5	30.3	26.3	86.60	1,654.2	-54.8	458.4	410.0	48.38	9.474		
9,100.0	7,740.0	7,940.5	7,780.0	31.8	26.3	88.18	1,654.8	-54.7	410.3	361.9	48.34	8.486		
9,200.0	7,740.0	7,947.0	7,786.5	33.4	26.3	89.16	1,655.3	-54.7	382.7	335.0	47.67	8.026		
9,259.9	7,740.0	7,951.0	7,790.5	34.3	26.3	89.77	1,655.6	-54.7	378.0	330.7	47.28	7.993 CC, ES, SF		
9,300.0	7,740.0	7,953.7	7,793.2	34.9	26.3	90.18	1,655.7	-54.7	380.1	332.9	47.15	8.062		
9,400.0	7,740.0	7,960.7	7,800.2	36.5	26.3	91.24	1,656.2	-54.7	403.0	355.8	47.17	8.543		
9,500.0	7,740.0	7,967.9	7,807.4	38.1	26.3	92.33	1,656.7	-54.6	447.5	400.3	47.14	9.491		
9,600.0	7,740.0	7,975.4	7,814.9	39.7	26.3	93.46	1,657.3	-54.6	507.9	461.1	46.82	10.848		
9,700.0	7,740.0	7,983.2	7,822.6	41.4	26.4	94.63	1,657.8	-54.6	579.3	532.9	46.35	12.499		
9,800.0	7,740.0	7,991.3	7,830.7	43.0	26.4	95.85	1,658.4	-54.5	658.1	612.2	45.89	14.342		
9,900.0	7,740.0	7,999.7	7,839.1	44.7	26.4	97.10	1,659.1	-54.5	741.9	696.4	45.51	16.304		
10,000.0	7,740.0	8,008.5	7,847.9	46.3	26.4	98.40	1,659.8	-54.4	829.3	784.0	45.22	18.337		
10,100.0	7,740.0	8,017.6	7,857.0	48.0	26.4	99.74	1,660.5	-54.4	919.1	874.1	45.03	20.411		
10,200.0	7,740.0	8,027.2	7,866.4	49.6	26.4	101.13	1,661.3	-54.3	1,010.8	965.9	44.91	22.507		

Cathedral Energy Services

Anticollision Report

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

Offset Design S1-T1N-R69W (Bailey) - Bailey 8-8-1 - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 811-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,740.0	7,934.4	7,710.0	28.8	28.0	-82.71	2,277.7	-581.2	993.5	955.9	37.56	26.450		
9,000.0	7,740.0	7,936.3	7,711.9	30.3	28.0	-83.44	2,277.8	-581.2	894.7	857.4	37.33	23.971		
9,100.0	7,740.0	7,938.3	7,713.8	31.8	28.0	-84.17	2,277.8	-581.2	796.3	759.3	37.03	21.502		
9,200.0	7,740.0	7,940.2	7,715.7	33.4	28.0	-84.90	2,277.9	-581.2	698.3	661.6	36.68	19.038		
9,300.0	7,740.0	7,942.1	7,717.7	34.9	28.0	-85.63	2,277.9	-581.2	601.0	564.7	36.28	16.567		
9,400.0	7,740.0	7,944.0	7,719.6	36.5	28.0	-86.37	2,277.9	-581.2	504.7	468.9	35.87	14.070		
9,500.0	7,740.0	7,945.9	7,721.5	38.1	28.0	-87.10	2,278.0	-581.2	410.2	374.6	35.64	11.510		
9,600.0	7,740.0	7,947.8	7,723.4	39.7	28.0	-87.84	2,278.0	-581.2	319.1	283.0	36.13	8.833		
9,700.0	7,740.0	7,949.8	7,725.3	41.4	28.0	-88.58	2,278.0	-581.2	235.3	196.4	38.92	6.044		
9,800.0	7,740.0	7,951.7	7,727.2	43.0	28.0	-89.32	2,278.1	-581.2	169.9	121.0	48.91	3.474		
9,882.5	7,740.0	7,953.3	7,728.8	44.4	28.0	-89.93	2,278.1	-581.2	148.6	84.5	64.12	2.317 CC		
9,900.0	7,740.0	7,953.6	7,729.2	44.7	28.0	-90.06	2,278.1	-581.2	149.6	83.0	66.61	2.246 ES, SF		
10,000.0	7,740.0	7,955.5	7,731.1	46.3	28.0	-90.80	2,278.1	-581.2	189.4	120.4	69.05	2.744		
10,100.0	7,740.0	7,957.4	7,733.0	48.0	28.0	-91.54	2,278.2	-581.2	263.4	199.8	63.59	4.142		
10,200.0	7,740.0	7,959.4	7,734.9	49.6	28.0	-92.28	2,278.2	-581.2	350.5	291.5	59.03	5.938		
10,300.0	7,740.0	7,961.3	7,736.8	51.3	28.0	-93.02	2,278.3	-581.2	443.1	387.2	55.96	7.918		
10,400.0	7,740.0	7,963.2	7,738.8	53.0	28.0	-93.75	2,278.3	-581.2	538.4	484.5	53.89	9.990		
10,500.0	7,740.0	7,965.1	7,740.7	54.7	28.0	-94.49	2,278.3	-581.2	635.1	582.6	52.45	12.108		
10,600.0	7,740.0	7,967.0	7,742.6	56.4	28.0	-95.23	2,278.4	-581.2	732.6	681.2	51.41	14.251		
10,700.0	7,740.0	7,969.0	7,744.5	58.0	28.0	-95.96	2,278.4	-581.2	830.8	780.1	50.64	16.404		
10,800.0	7,740.0	7,970.9	7,746.5	59.7	28.0	-96.70	2,278.4	-581.3	929.3	879.3	50.07	18.561		
10,900.0	7,740.0	7,972.8	7,748.4	61.4	28.0	-97.43	2,278.5	-581.3	1,028.1	978.5	49.63	20.716		

Cathedral Energy Services

Anticollision Report

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

Offset Design S1-T1N-R69W (Bailey) - Bailey 8-8-1 - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,740.0	7,916.3	7,729.0	28.8	28.4	-90.00	2,253.5	-565.5	967.0	929.2	37.88	25.532		
9,000.0	7,740.0	7,916.3	7,729.0	30.3	28.4	-90.00	2,253.5	-565.5	868.1	830.4	37.64	23.062		
9,100.0	7,740.0	7,916.3	7,729.0	31.8	28.4	-90.00	2,253.5	-565.5	769.4	732.1	37.34	20.605		
9,200.0	7,740.0	7,916.3	7,729.0	33.4	28.4	-90.00	2,253.5	-565.5	671.1	634.2	36.97	18.155		
9,300.0	7,740.0	7,916.3	7,729.0	34.9	28.4	-90.00	2,253.5	-565.5	573.5	536.9	36.52	15.703		
9,400.0	7,740.0	7,916.3	7,729.0	36.5	28.4	-90.00	2,253.5	-565.5	476.7	440.7	36.03	13.232		
9,500.0	7,740.0	7,916.3	7,729.0	38.1	28.4	-90.00	2,253.5	-565.5	381.7	346.1	35.66	10.704		
9,600.0	7,740.0	7,916.3	7,729.0	39.7	28.4	-90.00	2,253.5	-565.5	290.1	254.1	36.00	8.058		
9,700.0	7,740.0	7,916.3	7,729.0	41.4	28.4	-90.00	2,253.5	-565.5	206.3	167.3	39.07	5.281		
9,800.0	7,740.0	7,916.3	7,729.0	43.0	28.4	-90.00	2,253.5	-565.5	144.9	93.1	51.85	2.795		
9,857.9	7,740.0	7,916.3	7,729.0	44.0	28.4	-90.00	2,253.5	-565.5	132.9	68.8	64.06	2.074 CC, ES		
9,900.0	7,740.0	7,916.3	7,729.0	44.7	28.4	-90.00	2,253.5	-565.5	139.4	70.2	69.22	2.014 SF		
10,000.0	7,740.0	7,916.3	7,729.0	46.3	28.4	-90.00	2,253.5	-565.5	194.6	127.7	66.83	2.911		
10,100.0	7,740.0	7,916.3	7,729.0	48.0	28.4	-90.00	2,253.5	-565.5	276.2	215.3	60.86	4.539		
10,200.0	7,740.0	7,916.3	7,729.0	49.6	28.4	-90.00	2,253.5	-565.5	367.0	310.3	56.78	6.464		
10,300.0	7,740.0	7,916.3	7,729.0	51.3	28.4	-90.00	2,253.5	-565.5	461.7	407.5	54.17	8.523		
10,400.0	7,740.0	7,916.3	7,729.0	53.0	28.4	-90.00	2,253.5	-565.5	558.2	505.8	52.43	10.646		
10,500.0	7,740.0	7,916.3	7,729.0	54.7	28.4	-90.00	2,253.5	-565.5	655.7	604.5	51.23	12.799		
10,600.0	7,740.0	7,916.3	7,729.0	56.4	28.4	-90.00	2,253.5	-565.5	753.9	703.6	50.38	14.966		
10,700.0	7,740.0	7,916.3	7,729.0	58.0	28.4	-90.00	2,253.5	-565.5	852.6	802.8	49.75	17.138		
10,800.0	7,740.0	7,916.3	7,729.0	59.7	28.4	-90.00	2,253.5	-565.5	951.5	902.2	49.28	19.309		

Cathedral Energy Services

Anticollision Report

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

Offset Design S6-T1N-R68W (Bearden) - Bearden 13-6 (Existing Well) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 765-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,900.0	7,740.0	7,849.0	7,730.9	61.4	24.4	90.71	4,229.9	39.1	1,046.6	984.5	62.18	16.834		
11,000.0	7,740.0	7,848.9	7,730.7	63.1	24.4	90.70	4,229.9	39.1	958.4	893.4	65.00	14.746		
11,100.0	7,740.0	7,848.8	7,730.6	64.8	24.4	90.68	4,229.9	39.1	872.8	804.5	68.28	12.783		
11,200.0	7,740.0	7,848.6	7,730.5	66.6	24.4	90.65	4,229.9	39.1	791.0	718.9	72.12	10.967		
11,300.0	7,740.0	7,848.5	7,730.4	68.3	24.4	90.64	4,229.9	39.1	714.3	637.8	76.53	9.333		
11,400.0	7,740.0	7,848.4	7,730.3	70.0	24.4	90.63	4,229.9	39.1	644.0	562.6	81.39	7.913		
11,500.0	7,740.0	7,848.3	7,730.2	71.7	24.4	90.62	4,229.9	39.1	582.5	496.1	86.40	6.743		
11,600.0	7,740.0	7,848.2	7,730.1	73.4	24.4	90.60	4,229.9	39.1	532.8	441.9	90.91	5.861		
11,700.0	7,740.0	7,848.1	7,730.0	75.1	24.4	90.59	4,229.9	39.1	498.5	404.5	93.93	5.307		
11,800.0	7,740.0	7,848.0	7,729.9	76.9	24.4	90.58	4,229.9	39.1	482.7	388.3	94.42	5.113 SF		
11,827.2	7,740.0	7,848.0	7,729.8	77.3	24.4	90.57	4,229.9	39.1	482.0	387.9	94.04	5.125 CC, ES		
11,900.0	7,740.0	7,847.9	7,729.7	78.6	24.4	90.56	4,229.9	39.1	487.5	395.4	92.03	5.297		
12,000.0	7,740.0	7,847.8	7,729.6	80.3	24.4	90.55	4,229.9	39.1	512.0	424.5	87.56	5.848		
12,100.0	7,740.0	7,847.7	7,729.5	82.0	24.4	90.54	4,229.9	39.1	553.8	471.6	82.30	6.730		
12,200.0	7,740.0	7,847.5	7,729.4	83.7	24.4	90.52	4,229.9	39.1	609.4	532.2	77.17	7.896		
12,300.0	7,740.0	7,847.4	7,729.3	85.5	24.4	90.51	4,229.9	39.1	675.2	602.6	72.59	9.302		
12,400.0	7,740.0	7,847.3	7,729.2	87.2	24.4	90.50	4,229.9	39.1	748.6	680.0	68.63	10.908		
12,500.0	7,740.0	7,847.2	7,729.1	88.9	24.4	90.48	4,229.9	39.1	827.7	762.4	65.28	12.678		
12,600.0	7,740.0	7,847.1	7,729.0	90.7	24.4	90.47	4,229.9	39.1	910.8	848.3	62.47	14.580		
12,700.0	7,740.0	7,847.0	7,728.8	92.4	24.4	90.45	4,229.9	39.1	997.1	936.9	60.12	16.585		

Cathedral Energy Services

Anticollision Report

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

Offset Design S6-T1N-R68W (Bearden) - Bearden 14-6(Existing Well) - DD - DD												Offset Site Error:	0.0 ft
Survey Program: 797-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
9,600.0	7,740.0	7,877.0	7,711.4	39.7	25.8	88.22	2,903.3	4.9	1,007.7	962.9	44.81	22.486	
9,700.0	7,740.0	7,878.4	7,712.9	41.4	25.8	88.41	2,903.3	4.9	918.6	872.5	46.12	19.919	
9,800.0	7,740.0	7,879.9	7,714.3	43.0	25.8	88.60	2,903.3	4.9	832.1	784.4	47.70	17.443	
9,900.0	7,740.0	7,881.3	7,715.7	44.7	25.8	88.78	2,903.3	4.9	748.9	699.2	49.65	15.082	
10,000.0	7,740.0	7,882.7	7,717.1	46.3	25.8	88.97	2,903.4	4.9	670.3	618.2	52.08	12.870	
10,100.0	7,740.0	7,884.1	7,718.5	48.0	25.8	89.15	2,903.4	4.9	598.1	543.0	55.14	10.846	
10,200.0	7,740.0	7,885.5	7,719.9	49.6	25.8	89.33	2,903.4	4.9	535.0	476.0	59.01	9.066	
10,300.0	7,740.0	7,886.9	7,721.3	51.3	25.8	89.52	2,903.4	4.9	484.4	420.7	63.71	7.603	
10,400.0	7,740.0	7,888.3	7,722.7	53.0	25.8	89.70	2,903.4	4.9	450.6	381.9	68.76	6.554	
10,500.0	7,740.0	7,889.7	7,724.1	54.7	25.8	89.88	2,903.5	4.9	437.6	364.8	72.81	6.011	
10,507.8	7,740.0	7,889.8	7,724.2	54.8	25.8	89.89	2,903.5	4.9	437.6	364.5	73.04	5.991 CC, ES, SF	
10,600.0	7,740.0	7,891.1	7,725.5	56.4	25.8	90.06	2,903.5	4.9	447.2	372.6	74.53	6.000	
10,700.0	7,740.0	7,892.4	7,726.9	58.0	25.8	90.24	2,903.5	4.9	477.9	404.2	73.68	6.486	
10,800.0	7,740.0	7,893.8	7,728.2	59.7	25.8	90.42	2,903.5	4.9	526.1	455.0	71.11	7.399	
10,900.0	7,740.0	7,895.2	7,729.6	61.4	25.8	90.60	2,903.5	4.9	587.6	519.7	67.85	8.660	
11,000.0	7,740.0	7,896.6	7,731.0	63.1	25.8	90.78	2,903.6	4.9	658.5	593.9	64.59	10.196	
11,100.0	7,740.0	7,897.9	7,732.3	64.8	25.8	90.96	2,903.6	4.9	736.3	674.6	61.64	11.944	
11,200.0	7,740.0	7,899.3	7,733.7	66.6	25.8	91.16	2,903.6	4.9	819.2	760.1	59.13	13.854	
11,300.0	7,740.0	7,900.6	7,735.0	68.3	25.9	91.34	2,903.6	4.9	906.0	849.0	57.06	15.878	
11,400.0	7,740.0	7,902.0	7,736.4	70.0	25.9	91.52	2,903.6	4.9	995.3	939.9	55.35	17.983	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - S													Offset Site Error:	0.0 ft
Survey Program: 46-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,740.0	7,958.3	7,714.0	49.6	31.1	-83.36	3,560.8	-518.2	969.0	920.1	48.84	19.839		
10,300.0	7,740.0	7,959.4	7,715.1	51.3	31.1	-84.07	3,560.8	-518.1	869.4	820.5	48.86	17.793		
10,400.0	7,740.0	7,960.5	7,716.2	53.0	31.1	-84.78	3,560.8	-518.1	769.9	721.1	48.88	15.753		
10,500.0	7,740.0	7,961.6	7,717.3	54.7	31.1	-85.51	3,560.8	-518.1	670.7	621.8	48.90	13.714		
10,600.0	7,740.0	7,962.7	7,718.4	56.4	31.1	-86.24	3,560.8	-518.1	571.6	522.6	48.98	11.671		
10,700.0	7,740.0	7,963.8	7,719.5	58.0	31.1	-86.98	3,560.8	-518.1	473.0	423.8	49.18	9.617		
10,800.0	7,740.0	7,964.9	7,720.6	59.7	31.1	-87.72	3,560.8	-518.1	375.1	325.3	49.78	7.535		
10,900.0	7,740.0	7,966.0	7,721.7	61.4	31.1	-88.48	3,560.8	-518.1	278.6	227.1	51.51	5.410		
11,000.0	7,740.0	7,967.1	7,722.9	63.1	31.1	-89.24	3,560.9	-518.1	186.0	129.3	56.72	3.280		
11,100.0	7,740.0	7,968.3	7,724.0	64.8	31.1	-90.01	3,560.9	-518.1	107.5	36.6	70.81	1.518		
11,166.1	7,740.0	7,969.0	7,724.8	66.0	31.1	-90.52	3,560.9	-518.1	85.1	5.7	79.40	1.072	Level 2, CC, ES, SF	
11,200.0	7,740.0	7,969.4	7,725.2	66.6	31.1	-90.78	3,560.9	-518.1	91.5	10.5	80.94	1.130	Level 2	
11,300.0	7,740.0	7,970.6	7,726.3	68.3	31.1	-91.56	3,560.9	-518.0	158.3	86.6	71.70	2.208		
11,400.0	7,740.0	7,971.7	7,727.5	70.0	31.1	-92.34	3,560.9	-518.0	248.5	184.3	64.22	3.869		
11,500.0	7,740.0	7,972.9	7,728.6	71.7	31.1	-93.12	3,560.9	-518.0	344.2	283.7	60.48	5.690		
11,600.0	7,740.0	7,974.1	7,729.8	73.4	31.1	-93.92	3,560.9	-518.0	441.7	383.3	58.44	7.559		
11,700.0	7,740.0	7,975.3	7,731.0	75.1	31.1	-94.72	3,561.0	-518.0	540.2	483.0	57.22	9.441		
11,800.0	7,740.0	7,976.5	7,732.2	76.9	31.1	-95.52	3,561.0	-518.0	639.1	582.7	56.44	11.324		
11,900.0	7,740.0	7,977.7	7,733.4	78.6	31.1	-96.33	3,561.0	-518.0	738.4	682.4	55.93	13.201		
12,000.0	7,740.0	7,978.9	7,734.7	80.3	31.1	-97.15	3,561.0	-518.0	837.8	782.2	55.58	15.072		
12,100.0	7,740.0	7,980.2	7,735.9	82.0	31.1	-97.97	3,561.0	-518.0	937.3	882.0	55.35	16.935		
12,200.0	7,740.0	7,981.4	7,737.2	83.7	31.1	-98.79	3,561.0	-517.9	1,036.9	981.7	55.18	18.790		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - S													Offset Site Error: 0.0 ft
Survey Program: 765-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,900.0	7,740.0	7,849.0	7,730.9	61.4	24.4	90.71	4,229.9	39.1	1,046.6	984.4	62.18	16.833	
11,000.0	7,740.0	7,848.9	7,730.7	63.1	24.4	90.70	4,229.9	39.1	958.4	893.4	65.00	14.745	
11,100.0	7,740.0	7,848.8	7,730.6	64.8	24.4	90.68	4,229.9	39.1	872.7	804.4	68.28	12.782	
11,200.0	7,740.0	7,848.6	7,730.5	66.6	24.4	90.65	4,229.9	39.1	790.9	718.8	72.12	10.966	
11,300.0	7,740.0	7,848.5	7,730.4	68.3	24.4	90.64	4,229.9	39.1	714.2	637.7	76.53	9.332	
11,400.0	7,740.0	7,848.4	7,730.3	70.0	24.4	90.63	4,229.9	39.1	644.0	562.6	81.39	7.912	
11,500.0	7,740.0	7,848.3	7,730.2	71.7	24.4	90.62	4,229.9	39.1	582.5	496.1	86.40	6.742	
11,600.0	7,740.0	7,848.2	7,730.1	73.4	24.4	90.60	4,229.9	39.1	532.8	441.9	90.91	5.860	
11,700.0	7,740.0	7,848.1	7,730.0	75.1	24.4	90.59	4,229.9	39.1	498.4	404.5	93.93	5.306	
11,800.0	7,740.0	7,848.0	7,729.9	76.9	24.4	90.58	4,229.9	39.1	482.7	388.3	94.41	5.113 SF	
11,827.1	7,740.0	7,848.0	7,729.8	77.3	24.4	90.57	4,229.9	39.1	482.0	387.9	94.04	5.125 CC, ES	
11,900.0	7,740.0	7,847.9	7,729.7	78.6	24.4	90.56	4,229.9	39.1	487.4	395.4	92.03	5.297	
12,000.0	7,740.0	7,847.8	7,729.6	80.3	24.4	90.55	4,229.9	39.1	512.0	424.5	87.55	5.848	
12,100.0	7,740.0	7,847.7	7,729.5	82.0	24.4	90.54	4,229.9	39.1	553.9	471.6	82.29	6.730	
12,200.0	7,740.0	7,847.5	7,729.4	83.7	24.4	90.52	4,229.9	39.1	609.4	532.2	77.17	7.896	
12,300.0	7,740.0	7,847.4	7,729.3	85.5	24.4	90.51	4,229.9	39.1	675.2	602.6	72.58	9.302	
12,400.0	7,740.0	7,847.3	7,729.2	87.2	24.4	90.50	4,229.9	39.1	748.7	680.0	68.63	10.909	
12,500.0	7,740.0	7,847.2	7,729.1	88.9	24.4	90.48	4,229.9	39.1	827.7	762.4	65.28	12.679	
12,600.0	7,740.0	7,847.1	7,729.0	90.7	24.4	90.47	4,229.9	39.1	910.8	848.4	62.47	14.581	
12,700.0	7,740.0	7,847.0	7,728.8	92.4	24.4	90.45	4,229.9	39.1	997.1	937.0	60.12	16.586	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - S												Offset Site Error:	0.0 ft
Survey Program: 797-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,600.0	7,740.0	7,877.0	7,711.4	39.7	25.8	88.22	2,903.2	4.9	1,007.7	962.8	44.82	22.485	
9,700.0	7,740.0	7,878.4	7,712.9	41.4	25.8	88.41	2,903.3	4.9	918.6	872.5	46.12	19.918	
9,800.0	7,740.0	7,879.9	7,714.3	43.0	25.8	88.60	2,903.3	4.9	832.1	784.4	47.70	17.442	
9,900.0	7,740.0	7,881.3	7,715.7	44.7	25.8	88.78	2,903.3	4.9	748.9	699.2	49.65	15.082	
10,000.0	7,740.0	7,882.7	7,717.1	46.3	25.8	88.97	2,903.3	4.9	670.3	618.2	52.08	12.869	
10,100.0	7,740.0	7,884.1	7,718.5	48.0	25.8	89.15	2,903.3	4.9	598.1	543.0	55.15	10.846	
10,200.0	7,740.0	7,885.5	7,719.9	49.6	25.8	89.33	2,903.4	4.9	535.0	476.0	59.01	9.066	
10,300.0	7,740.0	7,886.9	7,721.3	51.3	25.8	89.52	2,903.4	4.9	484.4	420.7	63.72	7.602	
10,400.0	7,740.0	7,888.3	7,722.7	53.0	25.8	89.70	2,903.4	4.9	450.7	381.9	68.76	6.554	
10,500.0	7,740.0	7,889.7	7,724.1	54.7	25.8	89.88	2,903.4	4.9	437.7	364.8	72.81	6.011	
10,507.8	7,740.0	7,889.8	7,724.2	54.8	25.8	89.89	2,903.4	4.9	437.6	364.5	73.04	5.991 CC, ES, SF	
10,600.0	7,740.0	7,891.1	7,725.5	56.4	25.8	90.06	2,903.4	4.9	447.2	372.7	74.53	6.001	
10,700.0	7,740.0	7,892.4	7,726.9	58.0	25.8	90.24	2,903.4	4.9	477.9	404.3	73.67	6.487	
10,800.0	7,740.0	7,893.8	7,728.2	59.7	25.8	90.42	2,903.5	4.9	526.2	455.1	71.10	7.400	
10,900.0	7,740.0	7,895.2	7,729.6	61.4	25.8	90.60	2,903.5	4.9	587.6	519.8	67.85	8.661	
11,000.0	7,740.0	7,896.6	7,731.0	63.1	25.8	90.78	2,903.5	4.9	658.6	594.0	64.59	10.197	
11,100.0	7,740.0	7,897.9	7,732.3	64.8	25.8	90.96	2,903.5	4.9	736.3	674.7	61.64	11.945	
11,200.0	7,740.0	7,899.3	7,733.7	66.6	25.8	91.16	2,903.5	5.0	819.3	760.2	59.13	13.855	
11,300.0	7,740.0	7,900.6	7,735.0	68.3	25.9	91.34	2,903.6	5.0	906.1	849.0	57.06	15.879	
11,400.0	7,740.0	7,902.0	7,736.4	70.0	25.9	91.52	2,903.6	5.0	995.3	940.0	55.35	17.984	

Cathedral Energy Services

Anticollision Report

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

Offset Design												Offset Site Error:	0.0 ft
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - P												Offset Well Error:	0.0 ft
Survey Program: 775-Geolink MWD													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
12,300.0	7,740.0	7,850.5	7,724.0	85.5	25.6	90.00	4,835.9	649.0	1,107.8	997.1	110.71	10.006	
12,400.0	7,740.0	7,850.5	7,724.0	87.2	25.6	90.00	4,835.9	649.0	1,101.1	989.1	111.97	9.834	
12,423.9	7,740.0	7,850.5	7,724.0	87.6	25.6	90.00	4,835.9	649.0	1,100.8	988.7	112.15	9.816 CC, ES	
12,500.0	7,740.0	7,850.5	7,724.0	88.9	25.6	90.00	4,835.9	649.0	1,103.5	991.0	112.42	9.815 SF	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - S													Offset Site Error: 0.0 ft
Survey Program: 76-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
9,700.0	7,740.0	7,917.6	7,725.2	41.4	27.9	90.07	2,279.1	605.0	1,053.7	986.6	67.07	15.710	
9,800.0	7,740.0	7,918.6	7,726.2	43.0	27.9	90.12	2,279.1	605.0	1,041.0	971.7	69.27	15.028	
9,883.4	7,740.0	7,919.5	7,727.1	44.4	27.9	90.17	2,279.1	605.0	1,037.6	966.9	70.75	14.666 CC	
9,900.0	7,740.0	7,919.6	7,727.2	44.7	27.9	90.18	2,279.1	605.0	1,037.8	966.8	71.00	14.616 ES	
10,000.0	7,740.0	7,920.7	7,728.3	46.3	27.9	90.24	2,279.1	605.0	1,044.2	972.0	72.20	14.461 SF	
10,100.0	7,740.0	7,921.7	7,729.3	48.0	27.9	90.29	2,279.1	605.0	1,060.0	987.1	72.86	14.549	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO													Offset Site Error: 0.0 ft
Survey Program: 8200-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
12,300.0	7,740.0	7,697.0	7,697.0	85.5	13.4	90.00	5,530.8	109.4	1,005.3	935.5	69.80	14.403	
12,400.0	7,740.0	7,697.0	7,697.0	87.2	13.4	90.00	5,530.8	109.4	924.8	850.3	74.47	12.418	
12,500.0	7,740.0	7,697.0	7,697.0	88.9	13.4	90.00	5,530.8	109.4	848.4	768.6	79.78	10.634	
12,600.0	7,740.0	7,697.0	7,697.0	90.7	13.4	90.00	5,530.8	109.4	777.5	691.7	85.72	9.069	
12,700.0	7,740.0	7,697.0	7,697.0	92.4	13.4	90.00	5,530.8	109.4	713.5	621.3	92.17	7.741	
12,800.0	7,740.0	7,697.0	7,697.0	94.1	13.4	90.00	5,530.8	109.4	658.5	559.7	98.82	6.664	
12,900.0	7,740.0	7,697.0	7,697.0	95.9	13.4	90.00	5,530.8	109.4	615.1	510.0	105.06	5.855	
13,000.0	7,740.0	7,697.0	7,697.0	97.6	13.4	90.00	5,530.8	109.4	585.6	475.6	110.01	5.323	
13,100.0	7,740.0	7,697.0	7,697.0	99.3	13.4	90.00	5,530.8	109.4	572.3	459.6	112.74	5.077	
13,126.9	7,740.0	7,697.0	7,697.0	99.8	13.4	90.00	5,530.8	109.4	571.7	458.7	113.01	5.059 CC, ES, SF	
13,200.0	7,740.0	7,697.0	7,697.0	101.1	13.4	90.00	5,530.8	109.4	576.4	463.7	112.67	5.115	
13,300.0	7,740.0	7,697.0	7,697.0	102.8	13.4	90.00	5,530.8	109.4	597.3	487.4	109.93	5.434	
13,400.0	7,740.0	7,697.0	7,697.0	104.5	13.4	90.00	5,530.8	109.4	633.6	528.4	105.24	6.021	
13,500.0	7,740.0	7,697.0	7,697.0	106.3	13.4	90.00	5,530.8	109.4	682.7	583.2	99.53	6.859	
13,600.0	7,740.0	7,697.0	7,697.0	108.0	13.4	90.00	5,530.8	109.4	742.1	648.5	93.57	7.931	
13,700.0	7,740.0	7,697.0	7,697.0	109.8	13.4	90.00	5,530.8	109.4	809.5	721.7	87.86	9.214	
13,800.0	7,740.0	7,697.0	7,697.0	111.5	13.4	90.00	5,530.8	109.4	883.1	800.5	82.63	10.688	
13,900.0	7,740.0	7,697.0	7,697.0	113.2	13.4	90.00	5,530.8	109.4	961.5	883.6	77.97	12.332	
14,000.0	7,740.0	7,697.0	7,697.0	115.0	13.4	90.00	5,530.8	109.4	1,043.6	969.8	73.88	14.127	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - N													Offset Site Error:	0.0 ft
Survey Program: 7771-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,600.0	7,740.0	7,688.0	7,688.0	108.0	13.4	90.00	6,883.4	108.8	1,059.6	978.1	81.53	12.996		
13,700.0	7,740.0	7,688.0	7,688.0	109.8	13.4	90.00	6,883.4	108.8	978.3	891.2	87.02	11.241		
13,800.0	7,740.0	7,688.0	7,688.0	111.5	13.4	90.00	6,883.4	108.8	900.6	807.4	93.24	9.659		
13,900.0	7,740.0	7,688.0	7,688.0	113.2	13.4	90.00	6,883.4	108.8	827.8	727.6	100.19	8.262		
14,000.0	7,740.0	7,688.0	7,688.0	115.0	13.4	90.00	6,883.4	108.8	761.2	653.4	107.79	7.062		
14,100.0	7,740.0	7,688.0	7,688.0	116.7	13.4	90.00	6,883.4	108.8	702.5	586.8	115.77	6.068		
14,200.0	7,740.0	7,688.0	7,688.0	118.4	13.4	90.00	6,883.4	108.8	654.0	530.4	123.59	5.292		
14,300.0	7,740.0	7,688.0	7,688.0	120.2	13.4	90.00	6,883.4	108.8	617.9	487.6	130.35	4.740		
14,400.0	7,740.0	7,688.0	7,688.0	121.9	13.4	90.00	6,883.4	108.8	596.6	461.6	135.00	4.420		
14,479.3	7,740.0	7,688.0	7,688.0	123.3	13.4	90.00	6,883.4	108.8	591.3	454.8	136.55	4.331	CC, ES, SF	
14,500.0	7,740.0	7,688.0	7,688.0	123.7	13.4	90.00	6,883.4	108.8	591.7	455.1	136.61	4.331		
14,600.0	7,740.0	7,688.0	7,688.0	125.4	13.4	90.00	6,883.4	108.8	603.5	468.6	134.90	4.474		
14,681.2	7,740.0	7,688.0	7,688.0	126.8	13.4	90.00	6,883.4	108.8	624.9	493.5	131.40	4.756		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 7894-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							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	-176.30	-982.8	-63.5	984.9					
100.0	100.0	88.0	88.0	0.2	0.2	-176.30	-982.8	-63.5	984.9	984.6	0.31	3,222.396		
200.0	200.0	188.0	188.0	0.3	0.3	-176.30	-982.8	-63.5	984.9	984.2	0.65	1,504.310		
300.0	300.0	288.0	288.0	0.5	0.5	-56.35	-982.8	-63.5	984.4	983.4	1.00	980.076		
400.0	400.0	388.0	388.0	0.7	0.7	-56.49	-982.8	-63.5	982.9	981.6	1.36	724.322		
500.0	499.9	487.9	487.9	0.9	0.9	-56.72	-982.8	-63.5	980.5	978.8	1.72	571.647		
600.0	599.7	587.7	587.7	1.1	1.0	-57.05	-982.8	-63.5	977.2	975.1	2.08	469.404		
700.0	699.5	687.5	687.5	1.3	1.2	-70.87	-982.8	-63.5	974.3	971.8	2.45	397.434		
800.0	799.3	787.3	787.3	1.5	1.4	-74.78	-982.8	-63.5	972.6	969.8	2.82	344.521		
900.0	899.1	887.1	887.1	1.7	1.5	-75.12	-982.8	-63.5	971.1	967.9	3.20	303.818		
1,000.0	998.9	986.9	986.9	1.9	1.7	-75.46	-982.8	-63.5	969.5	966.0	3.57	271.559		
1,100.0	1,098.7	1,086.7	1,086.7	2.1	1.9	-75.81	-982.8	-63.5	968.0	964.1	3.94	245.383		
1,200.0	1,198.6	1,186.6	1,186.6	2.3	2.1	-76.15	-982.8	-63.5	966.6	962.2	4.32	223.726		
1,300.0	1,298.4	1,286.4	1,286.4	2.5	2.2	-76.50	-982.8	-63.5	965.1	960.4	4.70	205.519		
1,400.0	1,398.2	1,386.2	1,386.2	2.7	2.4	-76.85	-982.8	-63.5	963.7	958.7	5.07	190.003		
1,500.0	1,498.0	1,486.0	1,486.0	2.9	2.6	-77.20	-982.8	-63.5	962.4	956.9	5.45	176.625		
1,600.0	1,597.8	1,585.8	1,585.8	3.1	2.8	-77.55	-982.8	-63.5	961.1	955.2	5.83	164.975		
1,700.0	1,697.6	1,685.6	1,685.6	3.3	2.9	-77.90	-982.8	-63.5	959.8	953.6	6.20	154.739		
1,800.0	1,797.5	1,785.5	1,785.5	3.5	3.1	-78.25	-982.8	-63.5	958.5	952.0	6.58	145.677		
1,900.0	1,897.3	1,885.3	1,885.3	3.7	3.3	-78.60	-982.8	-63.5	957.3	950.4	6.96	137.600		
2,000.0	1,997.1	1,985.1	1,985.1	3.9	3.5	-78.96	-982.8	-63.5	956.1	948.8	7.33	130.355		
2,100.0	2,096.9	2,084.9	2,084.9	4.1	3.6	-79.31	-982.8	-63.5	955.0	947.3	7.71	123.822		
2,200.0	2,196.7	2,184.7	2,184.7	4.3	3.8	-79.67	-982.8	-63.5	953.9	945.8	8.09	117.901		
2,300.0	2,296.5	2,284.5	2,284.5	4.5	4.0	-80.02	-982.8	-63.5	952.8	944.4	8.47	112.511		
2,400.0	2,396.4	2,384.4	2,384.4	4.7	4.2	-80.38	-982.8	-63.5	951.8	943.0	8.85	107.585		
2,500.0	2,496.2	2,484.2	2,484.2	4.9	4.3	-80.74	-982.8	-63.5	950.8	941.6	9.23	103.066		
2,600.0	2,596.0	2,584.0	2,584.0	5.1	4.5	-81.10	-982.8	-63.5	949.9	940.3	9.60	98.905		
2,700.0	2,695.8	2,683.8	2,683.8	5.3	4.7	-81.45	-982.8	-63.5	948.9	939.0	9.98	95.063		
2,800.0	2,795.6	2,783.6	2,783.6	5.5	4.9	-81.81	-982.8	-63.5	948.1	937.7	10.36	91.504		
2,900.0	2,895.5	2,883.5	2,883.5	5.7	5.0	-82.17	-982.8	-63.5	947.2	936.5	10.74	88.199		
3,000.0	2,995.3	2,983.3	2,983.3	5.9	5.2	-82.54	-982.8	-63.5	946.4	935.3	11.12	85.122		
3,100.0	3,095.1	3,083.1	3,083.1	6.1	5.4	-82.90	-982.8	-63.5	945.7	934.2	11.50	82.251		
3,200.0	3,194.9	3,182.9	3,182.9	6.3	5.6	-83.26	-982.8	-63.5	944.9	933.1	11.88	79.565		
3,300.0	3,294.7	3,282.7	3,282.7	6.5	5.7	-83.62	-982.8	-63.5	944.2	932.0	12.26	77.049		
3,400.0	3,394.5	3,382.5	3,382.5	6.7	5.9	-83.99	-982.8	-63.5	943.6	931.0	12.63	74.686		
3,500.0	3,494.4	3,482.4	3,482.4	6.9	6.1	-84.35	-982.8	-63.5	943.0	930.0	13.01	72.464		
3,600.0	3,594.2	3,582.2	3,582.2	7.2	6.3	-84.71	-982.8	-63.5	942.4	929.0	13.39	70.370		
3,700.0	3,694.0	3,682.0	3,682.0	7.4	6.4	-85.08	-982.8	-63.5	941.9	928.1	13.77	68.395		
3,800.0	3,793.8	3,781.8	3,781.8	7.6	6.6	-85.44	-982.8	-63.5	941.4	927.2	14.15	66.527		
3,900.0	3,893.6	3,881.6	3,881.6	7.8	6.8	-85.81	-982.8	-63.5	940.9	926.4	14.53	64.760		
4,000.0	3,993.5	3,981.5	3,981.5	8.0	6.9	-86.17	-982.8	-63.5	940.5	925.6	14.91	63.086		
4,100.0	4,093.3	4,081.3	4,081.3	8.2	7.1	-86.54	-982.8	-63.5	940.1	924.8	15.29	61.497		
4,200.0	4,193.1	4,181.1	4,181.1	8.4	7.3	-86.91	-982.8	-63.5	939.8	924.1	15.67	59.987		
4,300.0	4,292.9	4,280.9	4,280.9	8.6	7.5	-87.27	-982.8	-63.5	939.4	923.4	16.04	58.551		
4,400.0	4,392.7	4,380.7	4,380.7	8.8	7.6	-87.64	-982.8	-63.5	939.2	922.8	16.42	57.184		
4,500.0	4,492.5	4,480.5	4,480.5	9.0	7.8	-88.01	-982.8	-63.5	938.9	922.1	16.80	55.882		
4,600.0	4,592.4	4,580.4	4,580.4	9.2	8.0	-88.37	-982.8	-63.5	938.8	921.6	17.18	54.639		
4,700.0	4,692.2	4,680.2	4,680.2	9.4	8.2	-88.74	-982.8	-63.5	938.6	921.0	17.56	53.452		
4,800.0	4,792.0	4,780.0	4,780.0	9.6	8.3	-89.11	-982.8	-63.5	938.5	920.6	17.94	52.317		
4,900.0	4,891.8	4,879.8	4,879.8	9.8	8.5	-89.48	-982.8	-63.5	938.4	920.1	18.32	51.232		
5,000.0	4,991.6	4,979.6	4,979.6	10.0	8.7	-89.84	-982.8	-63.5	938.4	919.7	18.70	50.193		
5,042.4	5,033.9	5,021.9	5,021.9	10.1	8.8	-90.00	-982.8	-63.5	938.4	919.5	18.86	49.766 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 2A-7H-E168
Project:	DJ Wattenberg	TVD Reference:	KB @ 5007.0ft (Unassigned)
Reference Site:	S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)	MD Reference:	KB @ 5007.0ft (Unassigned)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Woolley-Becky 2A-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Thomas 7-12 (Existing) - Existing - NO SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 7894-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,091.5	5,079.5	5,079.5	10.2	8.9	-90.21	-982.8	-63.5	938.4	919.3	19.07	49.198		
5,200.0	5,191.3	5,179.3	5,179.3	10.4	9.0	-90.58	-982.8	-63.5	938.4	919.0	19.45	48.243		
5,300.0	5,291.1	5,279.1	5,279.1	10.6	9.2	-90.95	-982.8	-63.5	938.5	918.7	19.83	47.327		
5,400.0	5,390.9	5,378.9	5,378.9	10.8	9.4	-91.31	-982.8	-63.5	938.6	918.4	20.21	46.448		
5,500.0	5,490.7	5,478.7	5,478.7	11.0	9.6	-91.68	-982.8	-63.5	938.8	918.2	20.59	45.603		
5,600.0	5,590.5	5,578.5	5,578.5	11.2	9.7	-92.05	-982.8	-63.5	939.0	918.0	20.96	44.791		
5,700.0	5,690.4	5,678.4	5,678.4	11.4	9.9	-92.42	-982.8	-63.5	939.2	917.9	21.34	44.009		
5,800.0	5,790.2	5,778.2	5,778.2	11.6	10.1	-92.78	-982.8	-63.5	939.5	917.8	21.72	43.257		
5,900.0	5,890.0	5,878.0	5,878.0	11.8	10.3	-93.15	-982.8	-63.5	939.8	917.7	22.10	42.532		
6,000.0	5,989.8	5,977.8	5,977.8	12.0	10.4	-93.52	-982.8	-63.5	940.2	917.7	22.47	41.834 ES		
6,100.0	6,089.6	6,077.6	6,077.6	12.2	10.6	-93.88	-982.8	-63.5	940.5	917.7	22.85	41.161		
6,200.0	6,189.5	6,177.5	6,177.5	12.5	10.8	-94.25	-982.8	-63.5	941.0	917.7	23.23	40.511		
6,300.0	6,289.3	6,277.3	6,277.3	12.7	11.0	-94.61	-982.8	-63.5	941.4	917.8	23.60	39.885		
6,400.0	6,389.1	6,377.1	6,377.1	12.9	11.1	-94.98	-982.8	-63.5	941.9	918.0	23.98	39.280		
6,500.0	6,488.9	6,476.9	6,476.9	13.1	11.3	-95.34	-982.8	-63.5	942.5	918.1	24.36	38.695		
6,600.0	6,588.7	6,576.7	6,576.7	13.3	11.5	-95.71	-982.8	-63.5	943.1	918.3	24.73	38.130		
6,700.0	6,688.5	6,676.5	6,676.5	13.5	11.7	-96.07	-982.8	-63.5	943.7	918.6	25.11	37.584		
6,800.0	6,788.4	6,776.4	6,776.4	13.7	11.8	-96.43	-982.8	-63.5	944.3	918.9	25.48	37.056		
6,900.0	6,888.2	6,876.2	6,876.2	13.9	12.0	-96.80	-982.8	-63.5	945.0	919.2	25.86	36.545		
7,000.0	6,988.0	6,976.0	6,976.0	14.1	12.2	-97.16	-982.8	-63.5	945.8	919.5	26.24	36.050		
7,100.0	7,087.8	7,075.8	7,075.8	14.3	12.3	-97.52	-982.8	-63.5	946.5	919.9	26.61	35.571		
7,200.0	7,187.6	7,175.6	7,175.6	14.5	12.5	-140.98	-982.8	-63.5	948.0	921.0	26.98	35.134 SF		
7,300.0	7,286.6	7,274.6	7,274.6	14.7	12.7	174.51	-982.8	-63.5	961.4	934.1	27.30	35.213		
7,400.0	7,382.0	7,370.0	7,370.0	14.8	12.9	166.77	-982.8	-63.5	990.6	963.0	27.57	35.933		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - S													Offset Site Error:	0.0 ft
Survey Program: 132-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,300.0	7,740.0	7,895.5	7,735.2	20.6	26.3	81.44	1,652.1	-54.9	1,029.9	986.2	43.72	23.556		
8,400.0	7,740.0	7,900.5	7,740.1	21.8	26.3	82.18	1,652.3	-54.9	937.7	893.5	44.27	21.183		
8,500.0	7,740.0	7,905.7	7,745.3	23.1	26.3	82.95	1,652.6	-54.9	847.3	802.4	44.89	18.878		
8,600.0	7,740.0	7,911.0	7,750.6	24.5	26.3	83.74	1,653.0	-54.8	759.3	713.7	45.58	16.658		
8,700.0	7,740.0	7,916.5	7,756.1	25.9	26.3	84.57	1,653.3	-54.8	674.6	628.2	46.35	14.553		
8,800.0	7,740.0	7,922.2	7,761.8	27.3	26.3	85.43	1,653.7	-54.8	594.5	547.4	47.16	12.605		
8,900.0	7,740.0	7,930.0	7,769.5	28.8	26.3	86.60	1,654.2	-54.8	521.4	473.4	47.94	10.876		
9,000.0	7,740.0	7,930.0	7,769.5	30.3	26.3	86.60	1,654.2	-54.8	458.4	410.0	48.38	9.474		
9,100.0	7,740.0	7,940.5	7,780.0	31.8	26.3	88.18	1,654.8	-54.7	410.3	361.9	48.34	8.486		
9,200.0	7,740.0	7,947.0	7,786.5	33.4	26.3	89.16	1,655.3	-54.7	382.7	335.0	47.67	8.026		
9,259.9	7,740.0	7,951.0	7,790.5	34.3	26.3	89.77	1,655.5	-54.7	378.0	330.7	47.28	7.993 CC, ES, SF		
9,300.0	7,740.0	7,953.7	7,793.2	34.9	26.3	90.18	1,655.7	-54.7	380.1	332.9	47.15	8.062		
9,400.0	7,740.0	7,960.7	7,800.2	36.5	26.3	91.24	1,656.2	-54.7	403.0	355.8	47.17	8.543		
9,500.0	7,740.0	7,967.9	7,807.4	38.1	26.3	92.33	1,656.7	-54.6	447.5	400.3	47.14	9.491		
9,600.0	7,740.0	7,975.4	7,814.9	39.7	26.3	93.46	1,657.3	-54.6	507.9	461.1	46.82	10.848		
9,700.0	7,740.0	7,983.2	7,822.6	41.4	26.4	94.63	1,657.8	-54.6	579.3	532.9	46.35	12.499		
9,800.0	7,740.0	7,991.3	7,830.7	43.0	26.4	95.85	1,658.4	-54.5	658.1	612.2	45.89	14.342		
9,900.0	7,740.0	7,999.7	7,839.1	44.7	26.4	97.10	1,659.1	-54.5	741.9	696.4	45.51	16.304		
10,000.0	7,740.0	8,008.5	7,847.9	46.3	26.4	98.40	1,659.8	-54.4	829.3	784.0	45.22	18.337		
10,100.0	7,740.0	8,017.6	7,857.0	48.0	26.4	99.74	1,660.5	-54.4	919.1	874.1	45.03	20.411		
10,200.0	7,740.0	8,027.2	7,866.4	49.6	26.4	101.13	1,661.3	-54.3	1,010.8	965.9	44.91	22.508		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N										Offset Site Error:		0.0 ft	
Survey Program: 8325-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	88.0	88.0	0.0	0.2	-30.07	131.5	-76.1	152.0				
100.0	100.0	188.0	188.0	0.2	0.3	-30.07	131.5	-76.1	152.0	151.5	0.48	316.463	
200.0	200.0	288.0	288.0	0.3	0.5	-30.07	131.5	-76.1	152.0	151.1	0.83	183.247	
244.6	244.6	332.6	332.6	0.4	0.6	90.00	131.5	-76.1	152.0	151.0	0.99	154.229	
300.0	300.0	388.0	388.0	0.5	0.7	90.26	131.5	-76.1	152.0	150.8	1.18	128.862	
400.0	400.0	488.0	488.0	0.7	0.9	91.25	131.5	-76.1	152.0	150.5	1.53	99.117	
500.0	499.9	587.9	587.9	0.9	1.0	92.89	131.5	-76.1	152.1	150.3	1.90	80.265	
600.0	599.7	687.7	687.7	1.1	1.2	95.17	131.5	-76.1	152.6	150.3	2.27	67.246	
700.0	699.5	787.5	787.5	1.3	1.4	84.13	131.5	-76.1	152.6	149.9	2.64	57.764	
800.0	799.3	887.3	887.3	1.5	1.5	82.82	131.5	-76.1	151.8	148.7	3.01	50.336	
900.0	899.1	987.1	987.1	1.7	1.7	85.08	131.5	-76.1	151.1	147.7	3.39	44.590	
1,000.0	998.9	1,086.9	1,086.9	1.9	1.9	87.36	131.5	-76.1	150.7	147.0	3.76	40.044	
1,100.0	1,098.7	1,186.7	1,186.7	2.1	2.1	89.65	131.5	-76.1	150.6	146.4	4.14	36.379	
1,115.2	1,113.9	1,201.9	1,201.9	2.1	2.1	90.00	131.5	-76.1	150.6	146.4	4.20	35.884 CC	
1,200.0	1,198.6	1,286.6	1,286.6	2.3	2.2	91.94	131.5	-76.1	150.6	146.1	4.51	33.378	
1,300.0	1,298.4	1,386.4	1,386.4	2.5	2.4	94.23	131.5	-76.1	151.0	146.1	4.89	30.890 ES	
1,400.0	1,398.2	1,486.2	1,486.2	2.7	2.6	96.50	131.5	-76.1	151.5	146.3	5.26	28.805	
1,500.0	1,498.0	1,586.0	1,586.0	2.9	2.8	98.75	131.5	-76.1	152.3	146.7	5.63	27.043	
1,600.0	1,597.8	1,685.8	1,685.8	3.1	2.9	100.97	131.5	-76.1	153.4	147.4	6.00	25.544	
1,700.0	1,697.6	1,785.6	1,785.6	3.3	3.1	103.16	131.5	-76.1	154.6	148.3	6.37	24.261	
1,800.0	1,797.5	1,885.5	1,885.5	3.5	3.3	105.31	131.5	-76.1	156.1	149.4	6.74	23.156	
1,900.0	1,897.3	1,985.3	1,985.3	3.7	3.5	107.42	131.5	-76.1	157.8	150.7	7.11	22.202	
2,000.0	1,997.1	2,085.1	2,085.1	3.9	3.6	109.48	131.5	-76.1	159.7	152.3	7.47	21.373	
2,100.0	2,096.9	2,184.9	2,184.9	4.1	3.8	111.49	131.5	-76.1	161.8	154.0	7.84	20.653	
2,200.0	2,196.7	2,284.7	2,284.7	4.3	4.0	113.45	131.5	-76.1	164.2	156.0	8.20	20.023	
2,300.0	2,296.5	2,384.5	2,384.5	4.5	4.2	115.35	131.5	-76.1	166.7	158.1	8.56	19.473	
2,400.0	2,396.4	2,484.4	2,484.4	4.7	4.3	117.19	131.5	-76.1	169.3	160.4	8.92	18.990	
2,500.0	2,496.2	2,584.2	2,584.2	4.9	4.5	118.97	131.5	-76.1	172.2	162.9	9.27	18.566	
2,600.0	2,596.0	2,684.0	2,684.0	5.1	4.7	120.69	131.5	-76.1	175.2	165.5	9.63	18.193	
2,700.0	2,695.8	2,783.8	2,783.8	5.3	4.9	122.36	131.5	-76.1	178.3	168.3	9.98	17.864	
2,800.0	2,795.6	2,883.6	2,883.6	5.5	5.0	123.96	131.5	-76.1	181.6	171.3	10.34	17.574	
2,900.0	2,895.5	2,983.5	2,983.5	5.7	5.2	125.51	131.5	-76.1	185.1	174.4	10.69	17.318	
3,000.0	2,995.3	3,083.3	3,083.3	5.9	5.4	127.00	131.5	-76.1	188.6	177.6	11.04	17.092	
3,100.0	3,095.1	3,183.1	3,183.1	6.1	5.6	128.43	131.5	-76.1	192.3	181.0	11.39	16.891	
3,200.0	3,194.9	3,282.9	3,282.9	6.3	5.7	129.81	131.5	-76.1	196.1	184.4	11.74	16.714	
3,300.0	3,294.7	3,382.7	3,382.7	6.5	5.9	131.14	131.5	-76.1	200.1	188.0	12.08	16.557	
3,400.0	3,394.5	3,482.5	3,482.5	6.7	6.1	132.41	131.5	-76.1	204.1	191.7	12.43	16.418	
3,500.0	3,494.4	3,582.4	3,582.4	6.9	6.3	133.64	131.5	-76.1	208.2	195.4	12.78	16.295	
3,600.0	3,594.2	3,682.2	3,682.2	7.2	6.4	134.81	131.5	-76.1	212.4	199.3	13.12	16.186	
3,700.0	3,694.0	3,782.0	3,782.0	7.4	6.6	135.94	131.5	-76.1	216.7	203.2	13.47	16.090	
3,800.0	3,793.8	3,881.8	3,881.8	7.6	6.8	137.03	131.5	-76.1	221.1	207.3	13.81	16.005	
3,900.0	3,893.6	3,981.6	3,981.6	7.8	6.9	138.07	131.5	-76.1	225.5	211.4	14.16	15.929	
4,000.0	3,993.5	4,081.5	4,081.5	8.0	7.1	139.07	131.5	-76.1	230.1	215.6	14.50	15.863	
4,100.0	4,093.3	4,181.3	4,181.3	8.2	7.3	140.04	131.5	-76.1	234.7	219.8	14.85	15.804	
4,200.0	4,193.1	4,281.1	4,281.1	8.4	7.5	140.96	131.5	-76.1	239.3	224.1	15.19	15.753	
4,300.0	4,292.9	4,380.9	4,380.9	8.6	7.6	141.86	131.5	-76.1	244.0	228.5	15.54	15.708	
4,400.0	4,392.7	4,480.7	4,480.7	8.8	7.8	142.71	131.5	-76.1	248.8	232.9	15.88	15.668	
4,500.0	4,492.5	4,580.5	4,580.5	9.0	8.0	143.54	131.5	-76.1	253.6	237.4	16.22	15.634	
4,600.0	4,592.4	4,680.4	4,680.4	9.2	8.2	144.33	131.5	-76.1	258.5	241.9	16.57	15.604	
4,700.0	4,692.2	4,780.2	4,780.2	9.4	8.3	145.10	131.5	-76.1	263.4	246.5	16.91	15.578	
4,800.0	4,792.0	4,880.0	4,880.0	9.6	8.5	145.83	131.5	-76.1	268.4	251.2	17.25	15.556	
4,900.0	4,891.8	4,979.8	4,979.8	9.8	8.7	146.54	131.5	-76.1	273.4	255.8	17.60	15.537	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - N													Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,000.0	4,991.6	5,079.6	5,079.6	10.0	8.9	147.22	131.5	-76.1	278.5	260.5	17.94	15.521		
5,100.0	5,091.5	5,179.5	5,179.5	10.2	9.0	147.88	131.5	-76.1	283.6	265.3	18.29	15.508		
5,200.0	5,191.3	5,279.3	5,279.3	10.4	9.2	148.52	131.5	-76.1	288.7	270.1	18.63	15.497		
5,300.0	5,291.1	5,379.1	5,379.1	10.6	9.4	149.13	131.5	-76.1	293.9	274.9	18.97	15.489		
5,400.0	5,390.9	5,478.9	5,478.9	10.8	9.6	149.73	131.5	-76.1	299.1	279.7	19.32	15.482		
5,500.0	5,490.7	5,578.7	5,578.7	11.0	9.7	150.30	131.5	-76.1	304.3	284.6	19.66	15.477		
5,600.0	5,590.5	5,678.5	5,678.5	11.2	9.9	150.85	131.5	-76.1	309.5	289.5	20.00	15.474		
5,700.0	5,690.4	5,778.4	5,778.4	11.4	10.1	151.39	131.5	-76.1	314.8	294.5	20.35	15.472		
5,800.0	5,790.2	5,878.2	5,878.2	11.6	10.3	151.90	131.5	-76.1	320.1	299.4	20.69	15.471		
5,900.0	5,890.0	5,978.0	5,978.0	11.8	10.4	152.40	131.5	-76.1	325.5	304.4	21.04	15.472		
6,000.0	5,989.8	6,077.8	6,077.8	12.0	10.6	152.89	131.5	-76.1	330.8	309.4	21.38	15.473		
6,100.0	6,089.6	6,177.6	6,177.6	12.2	10.8	153.35	131.5	-76.1	336.2	314.5	21.72	15.476		
6,200.0	6,189.5	6,277.5	6,277.5	12.5	11.0	153.81	131.5	-76.1	341.6	319.5	22.07	15.479		
6,300.0	6,289.3	6,377.3	6,377.3	12.7	11.1	154.25	131.5	-76.1	347.0	324.6	22.41	15.484		
6,400.0	6,389.1	6,477.1	6,477.1	12.9	11.3	154.67	131.5	-76.1	352.5	329.7	22.76	15.488		
6,500.0	6,488.9	6,576.9	6,576.9	13.1	11.5	155.09	131.5	-76.1	357.9	334.8	23.10	15.494		
6,600.0	6,588.7	6,676.7	6,676.7	13.3	11.7	155.49	131.5	-76.1	363.4	340.0	23.45	15.500		
6,700.0	6,688.5	6,776.5	6,776.5	13.5	11.8	155.87	131.5	-76.1	368.9	345.1	23.79	15.507		
6,800.0	6,788.4	6,876.4	6,876.4	13.7	12.0	156.25	131.5	-76.1	374.4	350.3	24.14	15.514		
6,900.0	6,888.2	6,976.2	6,976.2	13.9	12.2	156.62	131.5	-76.1	380.0	355.5	24.48	15.521		
7,000.0	6,988.0	7,076.0	7,076.0	14.1	12.3	156.97	131.5	-76.1	385.5	360.7	24.82	15.529		
7,100.0	7,087.8	7,175.8	7,175.8	14.3	12.5	157.32	131.5	-76.1	391.1	365.9	25.17	15.537		
7,200.0	7,187.6	7,275.6	7,275.6	14.5	12.7	114.55	131.5	-76.1	396.2	370.7	25.52	15.529		
7,300.0	7,286.6	7,374.6	7,374.6	14.7	12.9	72.67	131.5	-76.1	394.3	368.4	25.87	15.238		
7,400.0	7,382.0	7,470.0	7,470.0	14.8	13.0	70.60	131.5	-76.1	384.0	357.8	26.22	14.642		
7,500.0	7,470.8	7,558.8	7,558.8	15.0	13.2	75.32	131.5	-76.1	368.9	342.4	26.56	13.891		
7,600.0	7,550.5	7,638.5	7,638.5	15.2	13.3	82.89	131.5	-76.1	354.9	328.0	26.86	13.210		
7,689.6	7,612.1	7,700.1	7,700.1	15.5	13.4	90.00	131.5	-76.1	349.4	322.3	27.10	12.892		
7,700.0	7,618.5	7,706.5	7,706.5	15.6	13.5	90.76	131.5	-76.1	349.5	322.4	27.12	12.887 SF		
7,800.0	7,672.9	7,760.9	7,760.9	16.0	13.5	96.59	131.5	-76.1	360.5	333.2	27.32	13.194		
7,900.0	7,711.9	7,799.9	7,799.9	16.7	13.6	98.69	131.5	-76.1	392.2	364.8	27.49	14.269		
8,000.0	7,734.4	7,822.4	7,822.4	17.5	13.7	96.02	131.5	-76.1	443.6	416.0	27.64	16.049		
8,100.0	7,740.0	7,828.0	7,828.0	18.4	13.7	90.00	131.5	-76.1	509.6	481.8	27.78	18.342		
8,200.0	7,740.0	7,828.0	7,828.0	19.5	13.7	90.00	131.5	-76.1	585.3	557.3	27.93	20.953		
8,300.0	7,740.0	7,828.0	7,828.0	20.6	13.7	90.00	131.5	-76.1	667.3	639.3	28.09	23.758		
8,400.0	7,740.0	7,828.0	7,828.0	21.8	13.7	90.00	131.5	-76.1	753.8	725.5	28.25	26.681		
8,500.0	7,740.0	7,828.0	7,828.0	23.1	13.7	90.00	131.5	-76.1	843.2	814.8	28.41	29.675		
8,600.0	7,740.0	7,828.0	7,828.0	24.5	13.7	90.00	131.5	-76.1	934.8	906.2	28.58	32.709		
8,700.0	7,740.0	7,828.0	7,828.0	25.9	13.7	90.00	131.5	-76.1	1,027.9	999.2	28.74	35.764		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	7.3	7.3					
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	7.3	7.3	7.0	0.30	23.962		
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	7.3	7.3	6.6	0.65	11.148	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	-153.11	0.0	7.3	8.0	7.0	1.00	8.028		
400.0	400.0	400.1	400.1	0.7	0.7	-156.30	-0.7	6.7	9.8	8.4	1.35	7.245		
500.0	499.9	500.2	500.2	0.9	0.9	-156.02	-2.7	5.0	11.9	10.2	1.71	6.975		
600.0	599.7	600.3	600.2	1.1	1.0	-153.81	-6.0	2.2	14.3	12.3	2.07	6.942		
700.0	699.5	700.0	699.8	1.3	1.2	-163.79	-9.5	-0.4	17.6	15.2	2.43	7.266		
800.0	799.3	799.7	799.4	1.5	1.4	-164.56	-12.0	-1.7	22.3	19.5	2.78	8.001		
900.0	899.1	899.2	898.9	1.7	1.6	-164.88	-13.4	-1.6	28.3	25.1	3.13	9.019		
1,000.0	998.9	999.0	998.7	1.9	1.7	-165.65	-14.5	-1.0	34.7	31.2	3.48	9.960		
1,100.0	1,098.7	1,098.8	1,098.5	2.1	1.9	-166.19	-15.7	-0.4	41.1	37.3	3.83	10.729		
1,200.0	1,198.6	1,198.6	1,198.3	2.3	2.1	-166.58	-16.8	0.1	47.6	43.4	4.19	11.370		
1,300.0	1,298.4	1,298.4	1,298.1	2.5	2.3	-166.88	-17.9	0.7	54.0	49.5	4.54	11.912		
1,400.0	1,398.2	1,398.2	1,397.8	2.7	2.4	-167.11	-19.0	1.3	60.5	55.6	4.89	12.376		
1,500.0	1,498.0	1,498.0	1,497.6	2.9	2.6	-167.30	-20.1	1.8	66.9	61.7	5.24	12.778		
1,600.0	1,597.8	1,597.8	1,597.4	3.1	2.8	-167.45	-21.3	2.4	73.4	67.8	5.59	13.129		
1,700.0	1,697.6	1,697.5	1,697.2	3.3	3.0	-167.59	-22.4	3.0	79.8	73.9	5.94	13.439		
1,800.0	1,797.5	1,797.3	1,797.0	3.5	3.1	-167.70	-23.5	3.5	86.2	80.0	6.29	13.715		
1,900.0	1,897.3	1,897.1	1,896.8	3.7	3.3	-167.79	-24.6	4.1	92.7	86.1	6.64	13.961		
2,000.0	1,997.1	1,996.9	1,996.5	3.9	3.5	-167.87	-25.8	4.6	99.1	92.1	6.99	14.183		
2,100.0	2,096.9	2,096.7	2,096.3	4.1	3.7	-167.95	-26.9	5.2	105.6	98.2	7.34	14.383		
2,200.0	2,196.7	2,196.5	2,196.1	4.3	3.8	-168.01	-28.0	5.8	112.0	104.3	7.69	14.566		
2,300.0	2,296.5	2,296.3	2,295.9	4.5	4.0	-168.07	-29.1	6.3	118.5	110.4	8.04	14.732		
2,400.0	2,396.4	2,396.1	2,395.7	4.7	4.2	-168.12	-30.2	6.9	124.9	116.5	8.39	14.884		
2,500.0	2,496.2	2,495.9	2,495.5	4.9	4.4	-168.17	-31.4	7.5	131.4	122.6	8.74	15.025		
2,600.0	2,596.0	2,595.7	2,595.3	5.1	4.5	-168.21	-32.5	8.0	137.8	128.7	9.09	15.154		
2,700.0	2,695.8	2,695.5	2,695.0	5.3	4.7	-168.25	-33.6	8.6	144.3	134.8	9.44	15.274		
2,800.0	2,795.6	2,795.3	2,794.8	5.5	4.9	-168.28	-34.7	9.2	150.7	140.9	9.80	15.385		
2,900.0	2,895.5	2,895.0	2,894.6	5.7	5.1	-168.32	-35.9	9.7	157.2	147.0	10.15	15.488		
3,000.0	2,995.3	2,994.8	2,994.4	5.9	5.2	-168.35	-37.0	10.3	163.6	153.1	10.50	15.585		
3,100.0	3,095.1	3,094.6	3,094.2	6.1	5.4	-168.37	-38.1	10.9	170.0	159.2	10.85	15.675		
3,200.0	3,194.9	3,194.4	3,194.0	6.3	5.6	-168.40	-39.2	11.4	176.5	165.3	11.20	15.760		
3,300.0	3,294.7	3,294.2	3,293.7	6.5	5.8	-168.42	-40.3	12.0	182.9	171.4	11.55	15.839		
3,400.0	3,394.5	3,394.0	3,393.5	6.7	5.9	-168.44	-41.5	12.6	189.4	177.5	11.90	15.914		
3,500.0	3,494.4	3,493.8	3,493.3	6.9	6.1	-168.47	-42.6	13.1	195.8	183.6	12.25	15.985		
3,600.0	3,594.2	3,593.6	3,593.1	7.2	6.3	-168.48	-43.7	13.7	202.3	189.7	12.60	16.051		
3,700.0	3,694.0	3,693.4	3,692.9	7.4	6.5	-168.50	-44.8	14.3	208.7	195.8	12.95	16.114		
3,800.0	3,793.8	3,793.2	3,792.7	7.6	6.6	-168.52	-45.9	14.8	215.2	201.9	13.30	16.174		
3,900.0	3,893.6	3,893.0	3,892.4	7.8	6.8	-168.54	-47.1	15.4	221.6	208.0	13.65	16.231		
4,000.0	3,993.5	3,992.8	3,992.2	8.0	7.0	-168.55	-48.2	16.0	228.1	214.1	14.00	16.284		
4,100.0	4,093.3	4,092.6	4,092.0	8.2	7.2	-168.56	-49.3	16.5	234.5	220.2	14.36	16.336		
4,200.0	4,193.1	4,192.3	4,191.8	8.4	7.4	-168.58	-50.4	17.1	241.0	226.3	14.71	16.384		
4,300.0	4,292.9	4,292.1	4,291.6	8.6	7.5	-168.59	-51.6	17.6	247.4	232.3	15.06	16.431		
4,400.0	4,392.7	4,391.9	4,391.4	8.8	7.7	-168.60	-52.7	18.2	253.9	238.4	15.41	16.475		
4,500.0	4,492.5	4,491.7	4,491.1	9.0	7.9	-168.61	-53.8	18.8	260.3	244.5	15.76	16.517		
4,600.0	4,592.4	4,591.5	4,590.9	9.2	8.1	-168.63	-54.9	19.3	266.7	250.6	16.11	16.558		
4,700.0	4,692.2	4,691.3	4,690.7	9.4	8.2	-168.64	-56.0	19.9	273.2	256.7	16.46	16.597		
4,800.0	4,792.0	4,791.1	4,790.5	9.6	8.4	-168.65	-57.2	20.5	279.6	262.8	16.81	16.634		
4,900.0	4,891.8	4,890.9	4,890.3	9.8	8.6	-168.66	-58.3	21.0	286.1	268.9	17.16	16.670		
5,000.0	4,991.6	4,990.7	4,990.1	10.0	8.8	-168.67	-59.4	21.6	292.5	275.0	17.51	16.704		
5,100.0	5,091.5	5,090.5	5,089.9	10.2	8.9	-168.67	-60.5	22.2	299.0	281.1	17.86	16.737		

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 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	5,191.3	5,190.3	5,189.6	10.4	9.1	-168.68	-61.7	22.7	305.4	287.2	18.21	16.768		
5,300.0	5,291.1	5,290.1	5,289.4	10.6	9.3	-168.69	-62.8	23.3	311.9	293.3	18.57	16.799		
5,400.0	5,390.9	5,389.8	5,389.2	10.8	9.5	-168.70	-63.9	23.9	318.3	299.4	18.92	16.828		
5,500.0	5,490.7	5,489.6	5,489.0	11.0	9.6	-168.71	-65.0	24.4	324.8	305.5	19.27	16.856		
5,600.0	5,590.5	5,589.4	5,588.8	11.2	9.8	-168.71	-66.1	25.0	331.2	311.6	19.62	16.883		
5,700.0	5,690.4	5,689.2	5,688.6	11.4	10.0	-168.72	-67.3	25.6	337.7	317.7	19.97	16.910		
5,800.0	5,790.2	5,789.0	5,788.3	11.6	10.2	-168.73	-68.4	26.1	344.1	323.8	20.32	16.935		
5,900.0	5,890.0	5,888.8	5,888.1	11.8	10.3	-168.73	-69.5	26.7	350.6	329.9	20.67	16.960		
6,000.0	5,989.8	5,988.6	5,987.9	12.0	10.5	-168.74	-70.6	27.3	357.0	336.0	21.02	16.983		
6,100.0	6,089.6	6,088.4	6,087.7	12.2	10.7	-168.74	-71.8	27.8	363.4	342.1	21.37	17.006		
6,200.0	6,189.5	6,188.2	6,187.5	12.5	10.9	-168.75	-72.9	28.4	369.9	348.2	21.72	17.028		
6,300.0	6,289.3	6,288.0	6,287.3	12.7	11.0	-168.76	-74.0	28.9	376.3	354.3	22.07	17.050		
6,400.0	6,389.1	6,387.8	6,387.0	12.9	11.2	-168.76	-75.1	29.5	382.8	360.4	22.42	17.070		
6,500.0	6,488.9	6,487.6	6,486.8	13.1	11.4	-168.77	-76.2	30.1	389.2	366.5	22.77	17.091		
6,600.0	6,588.7	6,587.4	6,586.6	13.3	11.6	-168.77	-77.4	30.6	395.7	372.6	23.13	17.110		
6,700.0	6,688.5	6,687.1	6,686.4	13.5	11.7	-168.78	-78.5	31.2	402.1	378.7	23.48	17.129		
6,800.0	6,788.4	6,786.9	6,786.2	13.7	11.9	-168.78	-79.6	31.8	408.6	384.7	23.83	17.147		
6,900.0	6,888.2	6,886.7	6,886.0	13.9	12.1	-168.78	-80.7	32.3	415.0	390.8	24.18	17.165		
7,000.0	6,988.0	6,985.6	6,984.8	14.1	12.3	-169.28	-78.2	32.8	421.5	397.0	24.51	17.200		
7,100.0	7,087.8	7,080.5	7,078.0	14.3	12.4	-171.74	-60.9	33.0	428.8	404.1	24.77	17.311		
7,200.0	7,187.6	7,167.5	7,159.8	14.5	12.5	141.01	-31.7	33.0	438.8	413.8	24.98	17.564		
7,300.0	7,286.6	7,250.0	7,232.5	14.7	12.6	92.14	7.1	32.7	451.4	426.2	25.17	17.935		
7,400.0	7,382.0	7,327.7	7,295.3	14.8	12.8	80.93	52.8	32.2	465.0	439.6	25.35	18.344		
7,500.0	7,470.8	7,400.0	7,347.6	15.0	13.1	74.71	102.7	31.7	478.6	453.0	25.52	18.749		
7,600.0	7,550.5	7,478.4	7,396.7	15.2	13.4	70.18	163.6	30.9	491.1	465.2	25.90	18.963		
7,700.0	7,618.5	7,550.0	7,434.0	15.6	13.8	66.99	224.8	30.0	501.9	475.6	26.34	19.057		
7,800.0	7,672.9	7,623.4	7,463.9	16.0	14.4	64.68	291.7	29.0	510.3	483.3	27.02	18.888		
7,900.0	7,711.9	7,700.0	7,485.8	16.7	15.0	63.15	365.0	27.8	515.8	487.8	27.98	18.437		
8,000.0	7,734.4	7,765.5	7,496.6	17.5	15.7	62.45	429.6	26.8	518.1	489.1	28.99	17.870		
8,100.0	7,740.0	7,839.7	7,500.0	18.4	16.5	62.35	503.6	25.5	517.3	486.9	30.40	17.015		
8,200.0	7,740.0	7,939.7	7,500.0	19.5	17.7	62.26	603.6	23.8	515.7	483.3	32.45	15.891		
8,300.0	7,740.0	8,039.7	7,500.0	20.6	18.9	62.17	703.6	22.0	514.2	479.5	34.65	14.838		
8,400.0	7,740.0	8,139.6	7,500.0	21.8	20.2	62.08	803.5	20.3	512.6	475.7	36.97	13.865		
8,500.0	7,740.0	8,239.6	7,500.0	23.1	21.6	61.99	903.5	18.5	511.1	471.7	39.40	12.973		
8,600.0	7,740.0	8,339.6	7,500.0	24.5	23.1	61.90	1,003.5	16.8	509.5	467.6	41.90	12.160		
8,700.0	7,740.0	8,439.6	7,500.0	25.9	24.6	61.80	1,103.5	15.0	508.0	463.5	44.48	11.422		
8,800.0	7,740.0	8,539.6	7,500.0	27.3	26.1	61.71	1,203.4	13.3	506.5	459.4	47.11	10.752		
8,900.0	7,740.0	8,639.6	7,500.0	28.8	27.6	61.62	1,303.4	11.5	504.9	455.2	49.78	10.144		
9,000.0	7,740.0	8,739.5	7,500.0	30.3	29.2	61.52	1,403.4	9.8	503.4	450.9	52.49	9.590		
9,100.0	7,740.0	8,839.5	7,500.0	31.8	30.8	61.43	1,503.3	8.0	501.9	446.6	55.23	9.087		
9,200.0	7,740.0	8,939.5	7,500.0	33.4	32.4	61.33	1,603.3	6.3	500.3	442.3	58.00	8.627		
9,300.0	7,740.0	9,039.5	7,500.0	34.9	34.0	61.24	1,703.3	4.6	498.8	438.0	60.79	8.206		
9,400.0	7,740.0	9,140.4	7,500.0	36.5	35.7	61.14	1,804.2	2.8	497.3	433.6	63.62	7.817		
9,500.0	7,740.0	9,248.6	7,500.0	38.1	37.4	60.96	1,912.3	-0.4	494.7	428.1	66.62	7.426		
9,600.0	7,740.0	9,356.6	7,500.0	39.7	39.2	60.67	2,020.2	-5.5	490.5	421.0	69.54	7.054		
9,700.0	7,740.0	9,461.7	7,500.0	41.4	41.0	60.27	2,125.0	-12.4	484.8	412.5	72.31	6.704		
9,800.0	7,740.0	9,561.4	7,500.0	43.0	42.6	59.85	2,224.5	-19.4	478.8	403.8	74.93	6.389		
9,900.0	7,740.0	9,661.2	7,500.0	44.7	44.3	59.43	2,324.1	-26.3	472.7	395.2	77.53	6.098		
10,000.0	7,740.0	9,760.9	7,500.0	46.3	46.0	58.99	2,423.6	-33.3	466.7	386.6	80.10	5.827		
10,100.0	7,740.0	9,860.7	7,500.0	48.0	47.7	58.55	2,523.1	-40.3	460.8	378.1	82.64	5.576		
10,200.0	7,740.0	9,960.5	7,500.0	49.6	49.4	58.09	2,622.6	-47.2	454.8	369.7	85.15	5.342		
10,300.0	7,740.0	10,060.2	7,500.0	51.3	51.1	57.62	2,722.1	-54.2	448.9	361.3	87.62	5.123		

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

Cathedral Energy Services

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Reference Well:	Woolley-Becky 2A-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #3	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
10,400.0	7,740.0	10,160.0	7,500.0	53.0	52.8	57.14	2,821.6	-61.1	443.0	353.0	90.06	4.920		
10,500.0	7,740.0	10,259.7	7,500.0	54.7	54.5	56.64	2,921.1	-68.1	437.2	344.8	92.45	4.729		
10,600.0	7,740.0	10,359.5	7,500.0	56.4	56.2	56.13	3,020.6	-75.1	431.4	336.6	94.79	4.551		
10,700.0	7,740.0	10,459.2	7,500.0	58.0	57.9	55.61	3,120.2	-82.0	425.6	328.5	97.09	4.384		
10,800.0	7,740.0	10,559.0	7,500.0	59.7	59.6	55.07	3,219.7	-89.0	419.9	320.5	99.33	4.227		
10,900.0	7,740.0	10,657.0	7,500.0	61.4	61.3	54.54	3,317.5	-95.7	414.2	312.7	101.48	4.082		
11,000.0	7,740.0	10,751.4	7,500.0	63.1	62.9	54.10	3,411.7	-101.1	409.6	306.0	103.61	3.954		
11,100.0	7,740.0	10,845.9	7,500.0	64.8	64.5	53.79	3,506.1	-104.8	406.4	300.6	105.84	3.840		
11,200.0	7,740.0	10,940.4	7,500.0	66.6	66.1	53.67	3,600.6	-107.1	405.1	296.9	108.28	3.742		
11,201.9	7,740.0	10,942.2	7,500.0	66.6	66.2	53.67	3,602.4	-107.1	405.1	296.8	108.33	3.740		
11,300.0	7,740.0	11,035.7	7,500.0	68.3	67.8	53.74	3,695.9	-107.7	405.8	294.8	110.97	3.657		
11,400.0	7,740.0	11,135.7	7,500.0	70.0	69.5	53.85	3,795.9	-107.8	406.9	293.0	113.91	3.572		
11,500.0	7,740.0	11,235.7	7,500.0	71.7	71.2	53.97	3,895.9	-107.9	408.1	291.2	116.86	3.492		
11,600.0	7,740.0	11,335.7	7,500.0	73.4	73.0	54.09	3,995.9	-108.0	409.2	289.4	119.82	3.415		
11,700.0	7,740.0	11,435.7	7,500.0	75.1	74.7	54.20	4,095.9	-108.1	410.3	287.6	122.78	3.342		
11,800.0	7,740.0	11,535.7	7,500.0	76.9	76.4	54.32	4,195.8	-108.2	411.5	285.7	125.76	3.272		
11,900.0	7,740.0	11,635.6	7,500.0	78.6	78.1	54.43	4,295.8	-108.2	412.6	283.9	128.74	3.205		
12,000.0	7,740.0	11,735.6	7,500.0	80.3	79.9	54.55	4,395.8	-108.3	413.8	282.0	131.74	3.141		
12,100.0	7,740.0	11,835.6	7,500.0	82.0	81.6	54.66	4,495.8	-108.4	414.9	280.2	134.74	3.080		
12,200.0	7,740.0	11,935.6	7,500.0	83.7	83.3	54.77	4,595.8	-108.5	416.1	278.3	137.75	3.021		
12,300.0	7,740.0	12,035.6	7,500.0	85.5	85.1	54.88	4,695.8	-108.6	417.2	276.5	140.77	2.964		
12,400.0	7,740.0	12,135.6	7,500.0	87.2	86.8	54.99	4,795.8	-108.6	418.4	274.6	143.79	2.910		
12,500.0	7,740.0	12,235.6	7,500.0	88.9	88.5	55.11	4,895.8	-108.7	419.6	272.7	146.82	2.858		
12,600.0	7,740.0	12,335.6	7,500.0	90.7	90.3	55.22	4,995.8	-108.8	420.7	270.9	149.86	2.807		
12,700.0	7,740.0	12,435.6	7,500.0	92.4	92.0	55.32	5,095.8	-108.9	421.9	269.0	152.91	2.759		
12,800.0	7,740.0	12,535.6	7,500.0	94.1	93.7	55.43	5,195.7	-109.0	423.0	267.1	155.96	2.712		
12,900.0	7,740.0	12,635.5	7,500.0	95.9	95.5	55.54	5,295.7	-109.1	424.2	265.2	159.03	2.668		
13,000.0	7,740.0	12,735.5	7,500.0	97.6	97.2	55.65	5,395.7	-109.1	425.4	263.3	162.09	2.624		
13,100.0	7,740.0	12,835.5	7,500.0	99.3	98.9	55.76	5,495.7	-109.2	426.5	261.4	165.17	2.582		
13,200.0	7,740.0	12,935.5	7,500.0	101.1	100.7	55.86	5,595.7	-109.3	427.7	259.5	168.25	2.542		
13,300.0	7,740.0	13,035.5	7,500.0	102.8	102.4	55.97	5,695.7	-109.4	428.9	257.5	171.34	2.503		
13,400.0	7,740.0	13,135.5	7,500.0	104.5	104.2	56.07	5,795.7	-109.5	430.0	255.6	174.43	2.465		
13,500.0	7,740.0	13,235.5	7,500.0	106.3	105.9	56.18	5,895.7	-109.5	431.2	253.7	177.53	2.429		
13,600.0	7,740.0	13,335.5	7,500.0	108.0	107.6	56.28	5,995.7	-109.6	432.4	251.8	180.64	2.394		
13,700.0	7,740.0	13,435.5	7,500.0	109.8	109.4	56.39	6,095.7	-109.7	433.6	249.8	183.75	2.360		
13,800.0	7,740.0	13,535.5	7,500.0	111.5	111.1	56.49	6,195.6	-109.8	434.7	247.9	186.87	2.326		
13,900.0	7,740.0	13,635.4	7,500.0	113.2	112.9	56.59	6,295.6	-109.9	435.9	245.9	189.99	2.294		
14,000.0	7,740.0	13,735.4	7,500.0	115.0	114.6	56.69	6,395.6	-110.0	437.1	244.0	193.12	2.263		
14,100.0	7,740.0	13,835.4	7,500.0	116.7	116.4	56.80	6,495.6	-110.0	438.3	242.0	196.26	2.233		
14,200.0	7,740.0	13,935.4	7,500.0	118.4	118.1	56.90	6,595.6	-110.1	439.5	240.1	199.40	2.204		
14,300.0	7,740.0	14,035.4	7,500.0	120.2	119.8	57.00	6,695.6	-110.2	440.6	238.1	202.54	2.176		
14,400.0	7,740.0	14,135.4	7,500.0	121.9	121.6	57.10	6,795.6	-110.3	441.8	236.1	205.70	2.148		
14,500.0	7,740.0	14,235.4	7,500.0	123.7	123.3	57.20	6,895.6	-110.4	443.0	234.2	208.85	2.121		
14,600.0	7,740.0	14,335.4	7,500.0	125.4	125.1	57.29	6,995.6	-110.4	444.2	232.2	212.01	2.095		
14,681.2	7,740.0	14,416.6	7,500.0	126.8	126.5	57.37	7,076.8	-110.5	445.2	230.6	214.59	2.075 SF		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #5														Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.03	0.0	14.8	14.8						
100.0	100.0	100.0	100.0	0.2	0.2	90.03	0.0	14.8	14.8	14.5	0.30	48.845			
200.0	200.0	200.0	200.0	0.3	0.3	90.03	0.0	14.8	14.8	14.2	0.65	22.725 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	-151.57	0.0	14.8	15.6	14.6	1.00	15.564			
400.0	400.0	400.0	400.0	0.7	0.7	-155.54	0.0	14.8	17.9	16.6	1.35	13.271			
500.0	499.9	499.9	499.9	0.9	0.8	-160.24	0.0	14.8	22.0	20.3	1.70	12.918			
600.0	599.7	599.7	599.7	1.1	1.0	-164.48	0.0	14.8	27.8	25.8	2.05	13.554			
700.0	699.5	698.9	698.9	1.3	1.2	-179.23	-0.1	15.7	35.1	32.7	2.40	14.620			
800.0	799.3	797.9	797.9	1.5	1.4	178.80	-0.4	18.2	43.5	40.8	2.74	15.853			
900.0	899.1	896.6	896.5	1.7	1.6	-179.47	-0.9	22.5	53.6	50.5	3.09	17.341			
1,000.0	998.9	995.8	995.5	1.9	1.7	-177.96	-1.5	27.9	64.8	61.4	3.44	18.850			
1,100.0	1,098.7	1,095.1	1,094.7	2.1	1.9	-176.90	-2.1	33.3	76.1	72.3	3.79	20.095			
1,200.0	1,198.6	1,194.5	1,193.9	2.3	2.1	-176.10	-2.7	38.8	87.4	83.3	4.14	21.134			
1,300.0	1,298.4	1,293.8	1,293.1	2.5	2.3	-175.49	-3.3	44.2	98.8	94.3	4.49	22.014			
1,400.0	1,398.2	1,393.2	1,392.3	2.7	2.5	-175.01	-3.9	49.7	110.1	105.3	4.84	22.770			
1,500.0	1,498.0	1,492.5	1,491.5	2.9	2.7	-174.61	-4.5	55.1	121.4	116.3	5.18	23.424			
1,600.0	1,597.8	1,591.9	1,590.7	3.1	2.9	-174.29	-5.1	60.6	132.8	127.3	5.53	23.998			
1,700.0	1,697.6	1,691.2	1,689.9	3.3	3.1	-174.01	-5.7	66.0	144.1	138.3	5.88	24.503			
1,800.0	1,797.5	1,790.6	1,789.1	3.5	3.3	-173.78	-6.3	71.5	155.5	149.3	6.23	24.953			
1,900.0	1,897.3	1,889.9	1,888.3	3.7	3.5	-173.57	-6.9	76.9	166.9	160.3	6.58	25.355			
2,000.0	1,997.1	1,989.3	1,987.5	3.9	3.7	-173.39	-7.5	82.4	178.2	171.3	6.93	25.717			
2,100.0	2,096.9	2,088.6	2,086.7	4.1	3.9	-173.24	-8.1	87.8	189.6	182.3	7.28	26.045			
2,200.0	2,196.7	2,188.0	2,185.9	4.3	4.1	-173.10	-8.7	93.3	200.9	193.3	7.63	26.343			
2,300.0	2,296.5	2,287.3	2,285.1	4.5	4.3	-172.98	-9.3	98.7	212.3	204.3	7.98	26.615			
2,400.0	2,396.4	2,386.7	2,384.3	4.7	4.4	-172.87	-9.9	104.2	223.7	215.3	8.33	26.864			
2,500.0	2,496.2	2,486.0	2,483.5	4.9	4.6	-172.76	-10.5	109.6	235.0	226.3	8.67	27.093			
2,600.0	2,596.0	2,585.4	2,582.7	5.1	4.8	-172.67	-11.1	115.1	246.4	237.4	9.02	27.305			
2,700.0	2,695.8	2,684.8	2,681.9	5.3	5.0	-172.59	-11.7	120.5	257.8	248.4	9.37	27.501			
2,800.0	2,795.6	2,784.1	2,781.1	5.5	5.2	-172.51	-12.3	126.0	269.1	259.4	9.72	27.683			
2,900.0	2,895.5	2,883.5	2,880.3	5.7	5.4	-172.44	-12.9	131.5	280.5	270.4	10.07	27.852			
3,000.0	2,995.3	2,982.8	2,979.5	5.9	5.6	-172.38	-13.5	136.9	291.8	281.4	10.42	28.010			
3,100.0	3,095.1	3,082.2	3,078.7	6.1	5.8	-172.32	-14.2	142.4	303.2	292.4	10.77	28.158			
3,200.0	3,194.9	3,181.5	3,177.9	6.3	6.0	-172.27	-14.8	147.8	314.6	303.5	11.12	28.297			
3,300.0	3,294.7	3,280.9	3,277.1	6.5	6.2	-172.21	-15.4	153.3	325.9	314.5	11.47	28.427			
3,400.0	3,394.5	3,380.2	3,376.3	6.7	6.4	-172.17	-16.0	158.7	337.3	325.5	11.82	28.549			
3,500.0	3,494.4	3,479.6	3,475.5	6.9	6.6	-172.12	-16.6	164.2	348.7	336.5	12.16	28.665			
3,600.0	3,594.2	3,578.9	3,574.7	7.2	6.8	-172.08	-17.2	169.6	360.1	347.5	12.51	28.774			
3,700.0	3,694.0	3,678.3	3,673.9	7.4	7.0	-172.04	-17.8	175.1	371.4	358.6	12.86	28.877			
3,800.0	3,793.8	3,777.6	3,773.1	7.6	7.2	-172.00	-18.4	180.5	382.8	369.6	13.21	28.975			
3,900.0	3,893.6	3,877.0	3,872.3	7.8	7.4	-171.97	-19.0	186.0	394.2	380.6	13.56	29.068			
4,000.0	3,993.5	3,976.3	3,971.5	8.0	7.6	-171.93	-19.6	191.4	405.5	391.6	13.91	29.156			
4,100.0	4,093.3	4,075.7	4,070.7	8.2	7.8	-171.90	-20.2	196.9	416.9	402.6	14.26	29.239			
4,200.0	4,193.1	4,175.0	4,169.9	8.4	8.0	-171.87	-20.8	202.3	428.3	413.7	14.61	29.319			
4,300.0	4,292.9	4,274.4	4,269.1	8.6	8.2	-171.85	-21.4	207.8	439.6	424.7	14.96	29.395			
4,400.0	4,392.7	4,373.7	4,368.3	8.8	8.4	-171.82	-22.0	213.2	451.0	435.7	15.30	29.468			
4,500.0	4,492.5	4,473.1	4,467.5	9.0	8.6	-171.79	-22.6	218.7	462.4	446.7	15.65	29.537			
4,600.0	4,592.4	4,572.4	4,566.7	9.2	8.8	-171.77	-23.2	224.1	473.7	457.7	16.00	29.604			
4,700.0	4,692.2	4,671.8	4,665.9	9.4	9.0	-171.75	-23.8	229.6	485.1	468.8	16.35	29.667			
4,800.0	4,792.0	4,771.1	4,765.1	9.6	9.2	-171.72	-24.4	235.0	496.5	479.8	16.70	29.728			
4,900.0	4,891.8	4,870.5	4,864.3	9.8	9.4	-171.70	-25.0	240.5	507.8	490.8	17.05	29.787			
5,000.0	4,991.6	4,969.8	4,963.5	10.0	9.6	-171.68	-25.6	245.9	519.2	501.8	17.40	29.843			
5,100.0	5,091.5	5,069.2	5,062.7	10.2	9.8	-171.66	-26.2	251.4	530.6	512.8	17.75	29.897			

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

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #5											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,191.3	5,168.5	5,161.9	10.4	10.0	-171.65	-26.9	256.8	542.0	523.9	18.10	29.948	
5,300.0	5,291.1	5,267.9	5,261.1	10.6	10.2	-171.63	-27.5	262.3	553.3	534.9	18.45	29.998	
5,400.0	5,390.9	5,367.2	5,360.3	10.8	10.4	-171.61	-28.1	267.7	564.7	545.9	18.79	30.046	
5,500.0	5,490.7	5,466.6	5,459.5	11.0	10.6	-171.60	-28.7	273.2	576.1	556.9	19.14	30.092	
5,600.0	5,590.5	5,565.9	5,558.7	11.2	10.8	-171.58	-29.3	278.6	587.4	567.9	19.49	30.137	
5,700.0	5,690.4	5,665.3	5,657.9	11.4	11.0	-171.57	-29.9	284.1	598.8	579.0	19.84	30.180	
5,800.0	5,790.2	5,764.6	5,757.1	11.6	11.2	-171.55	-30.5	289.5	610.2	590.0	20.19	30.222	
5,900.0	5,890.0	5,864.0	5,856.3	11.8	11.4	-171.54	-31.1	295.0	621.5	601.0	20.54	30.262	
6,000.0	5,989.8	5,963.3	5,955.5	12.0	11.6	-171.52	-31.7	300.5	632.9	612.0	20.89	30.300	
6,100.0	6,089.6	6,062.7	6,054.7	12.2	11.8	-171.51	-32.3	305.9	644.3	623.0	21.24	30.338	
6,200.0	6,189.5	6,162.1	6,153.9	12.5	12.0	-171.50	-32.9	311.4	655.6	634.1	21.59	30.374	
6,300.0	6,289.3	6,261.4	6,253.1	12.7	12.2	-171.49	-33.5	316.8	667.0	645.1	21.93	30.409	
6,400.0	6,389.1	6,360.8	6,352.3	12.9	12.3	-171.47	-34.1	322.3	678.4	656.1	22.28	30.444	
6,500.0	6,488.9	6,460.1	6,451.5	13.1	12.5	-171.46	-34.7	327.7	689.8	667.1	22.63	30.477	
6,600.0	6,588.7	6,559.5	6,550.7	13.3	12.7	-171.45	-35.3	333.2	701.1	678.1	22.98	30.509	
6,700.0	6,688.5	6,658.8	6,649.9	13.5	12.9	-171.44	-35.9	338.6	712.5	689.2	23.33	30.540	
6,800.0	6,788.4	6,758.2	6,749.1	13.7	13.1	-171.43	-36.5	344.1	723.9	700.2	23.68	30.570	
6,900.0	6,888.2	6,857.5	6,848.3	13.9	13.3	-171.42	-37.1	349.5	735.2	711.2	24.03	30.599	
7,000.0	6,988.0	6,956.9	6,947.5	14.1	13.5	-171.41	-37.7	355.0	746.6	722.2	24.38	30.627	
7,100.0	7,087.8	7,056.2	7,046.7	14.3	13.7	-171.40	-38.3	360.4	758.0	733.3	24.73	30.655	
7,200.0	7,187.6	7,155.6	7,145.9	14.5	13.9	145.26	-38.9	365.9	769.3	744.2	25.07	30.682	
7,300.0	7,286.6	7,250.0	7,240.0	14.7	14.1	100.82	-34.4	371.0	779.9	754.5	25.37	30.740	
7,400.0	7,382.0	7,343.1	7,330.9	14.8	14.3	93.57	-15.2	375.6	789.9	764.2	25.65	30.796	
7,500.0	7,470.8	7,438.4	7,419.4	15.0	14.5	90.79	19.5	379.9	798.9	772.9	25.98	30.749	
7,600.0	7,550.5	7,535.5	7,502.4	15.2	14.7	89.46	69.4	383.5	806.7	780.2	26.45	30.494	
7,700.0	7,618.5	7,634.4	7,577.2	15.6	15.1	88.84	134.0	386.5	813.1	786.0	27.17	29.931	
7,800.0	7,672.9	7,735.5	7,641.0	16.0	15.5	88.69	212.2	388.6	818.0	789.8	28.21	28.998	
7,900.0	7,711.9	7,838.7	7,691.0	16.7	16.2	88.87	302.3	389.8	821.1	791.5	29.63	27.710	
8,000.0	7,734.4	7,943.9	7,724.5	17.5	17.0	89.33	401.9	389.9	822.3	790.9	31.44	26.153	
8,100.0	7,740.0	8,051.2	7,739.4	18.4	18.1	89.96	507.9	388.9	821.6	788.0	33.59	24.459	
8,200.0	7,740.0	8,153.2	7,740.0	19.5	19.2	90.00	610.0	387.1	819.9	784.0	35.93	22.817	
8,300.0	7,740.0	8,253.2	7,740.0	20.6	20.3	90.00	709.9	385.4	818.2	779.7	38.42	21.295	
8,400.0	7,740.0	8,353.2	7,740.0	21.8	21.6	90.00	809.9	383.6	816.4	775.4	41.06	19.885	
8,500.0	7,740.0	8,453.2	7,740.0	23.1	22.9	90.00	909.9	381.9	814.7	770.9	43.82	18.593	
8,600.0	7,740.0	8,553.2	7,740.0	24.5	24.3	90.00	1,009.8	380.2	812.9	766.3	46.67	17.417	
8,700.0	7,740.0	8,653.1	7,740.0	25.9	25.7	90.00	1,109.8	378.4	811.2	761.6	49.62	16.349	
8,800.0	7,740.0	8,753.1	7,740.0	27.3	27.1	90.00	1,209.8	376.7	809.4	756.8	52.63	15.380	
8,900.0	7,740.0	8,853.1	7,740.0	28.8	28.6	90.00	1,309.7	374.9	807.7	752.0	55.70	14.501	
9,000.0	7,740.0	8,953.1	7,740.0	30.3	30.2	90.00	1,409.7	373.2	805.9	747.1	58.82	13.702	
9,100.0	7,740.0	9,053.1	7,740.0	31.8	31.7	90.00	1,509.7	371.4	804.2	742.2	61.98	12.975	
9,200.0	7,740.0	9,153.1	7,740.0	33.4	33.3	90.00	1,609.6	369.7	802.5	737.3	65.18	12.312	
9,300.0	7,740.0	9,253.1	7,740.0	34.9	34.8	90.00	1,709.6	367.9	800.7	732.3	68.40	11.706	
9,400.0	7,740.0	9,353.0	7,740.0	36.5	36.4	90.00	1,809.6	366.2	799.0	727.3	71.66	11.150	
9,500.0	7,740.0	9,453.0	7,740.0	38.1	38.1	90.00	1,909.6	364.4	797.2	722.3	74.93	10.639	
9,600.0	7,740.0	9,553.0	7,740.0	39.7	39.7	90.00	2,009.5	362.7	795.5	717.2	78.23	10.168	
9,700.0	7,740.0	9,653.0	7,740.0	41.4	41.3	90.00	2,109.5	361.0	793.7	712.2	81.54	9.734	
9,800.0	7,740.0	9,753.0	7,740.0	43.0	43.0	90.00	2,209.5	359.2	792.0	707.1	84.87	9.331	
9,900.0	7,740.0	9,853.0	7,740.0	44.7	44.6	90.00	2,309.4	357.5	790.2	702.0	88.22	8.958	
10,000.0	7,740.0	9,952.9	7,740.0	46.3	46.3	90.00	2,409.4	355.7	788.5	696.9	91.57	8.610	
10,100.0	7,740.0	10,052.9	7,740.0	48.0	47.9	90.00	2,509.4	354.0	786.7	691.8	94.94	8.287	
10,200.0	7,740.0	10,152.9	7,740.0	49.6	49.6	90.00	2,609.3	352.2	785.0	686.7	98.32	7.984	
10,300.0	7,740.0	10,252.9	7,740.0	51.3	51.3	90.00	2,709.3	350.5	783.3	681.6	101.70	7.701	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #5													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
10,400.0	7,740.0	10,352.9	7,740.0	53.0	53.0	90.00	2,809.3	348.7	781.5	676.4	105.10	7.436		
10,500.0	7,740.0	10,452.9	7,740.0	54.7	54.7	90.00	2,909.3	347.0	779.8	671.3	108.50	7.187		
10,600.0	7,740.0	10,552.9	7,740.0	56.4	56.4	90.00	3,009.2	345.3	778.0	666.1	111.90	6.953		
10,700.0	7,740.0	10,652.8	7,740.0	58.0	58.0	90.00	3,109.2	343.5	776.3	661.0	115.32	6.732		
10,800.0	7,740.0	10,752.8	7,740.0	59.7	59.7	90.00	3,209.2	341.8	774.5	655.8	118.74	6.523		
10,900.0	7,740.0	10,852.8	7,740.0	61.4	61.4	90.00	3,309.1	340.0	772.8	650.6	122.16	6.326		
11,000.0	7,740.0	10,952.8	7,740.0	63.1	63.2	90.00	3,409.1	338.3	771.0	645.4	125.59	6.139		
11,100.0	7,740.0	11,052.8	7,740.0	64.8	64.9	90.00	3,509.1	336.5	769.3	640.3	129.02	5.962		
11,200.0	7,740.0	11,152.8	7,740.0	66.6	66.6	90.00	3,609.0	334.8	768.3	635.9	132.46	5.801		
11,300.0	7,740.0	11,252.8	7,740.0	68.3	68.3	90.00	3,709.0	333.0	768.1	632.2	135.90	5.652		
11,400.0	7,740.0	11,352.8	7,740.0	70.0	70.0	90.00	3,809.0	331.3	767.8	628.5	139.35	5.510		
11,500.0	7,740.0	11,452.8	7,740.0	71.7	71.7	90.00	3,909.0	329.5	767.6	624.8	142.79	5.376		
11,600.0	7,740.0	11,552.8	7,740.0	73.4	73.4	90.00	4,009.0	327.8	767.3	621.1	146.24	5.247		
11,700.0	7,740.0	11,652.8	7,740.0	75.1	75.1	90.00	4,109.0	326.1	767.1	617.4	149.70	5.124		
11,800.0	7,740.0	11,752.8	7,740.0	76.9	76.9	90.00	4,209.0	324.3	766.8	613.7	153.15	5.007		
11,900.0	7,740.0	11,852.8	7,740.0	78.6	78.6	90.00	4,308.9	322.6	766.6	610.0	156.61	4.895		
12,000.0	7,740.0	11,952.8	7,740.0	80.3	80.3	90.00	4,408.9	320.8	766.3	606.3	160.07	4.787		
12,100.0	7,740.0	12,052.8	7,740.0	82.0	82.0	90.00	4,508.9	319.1	766.1	602.5	163.53	4.685		
12,200.0	7,740.0	12,152.8	7,740.0	83.7	83.8	90.00	4,608.9	317.3	765.8	598.8	167.00	4.586		
12,300.0	7,740.0	12,252.8	7,740.0	85.5	85.5	90.00	4,708.9	315.6	765.6	595.1	170.46	4.491		
12,400.0	7,740.0	12,352.8	7,740.0	87.2	87.2	90.00	4,808.9	313.8	765.3	591.4	173.93	4.400		
12,500.0	7,740.0	12,452.8	7,740.0	88.9	89.0	90.00	4,908.8	312.1	765.1	587.7	177.40	4.313		
12,600.0	7,740.0	12,552.8	7,740.0	90.7	90.7	90.00	5,008.8	310.3	764.8	584.0	180.87	4.229		
12,700.0	7,740.0	12,652.8	7,740.0	92.4	92.4	90.00	5,108.8	308.6	764.6	580.2	184.34	4.148		
12,800.0	7,740.0	12,752.8	7,740.0	94.1	94.1	90.00	5,208.8	306.9	764.3	576.5	187.82	4.069		
12,900.0	7,740.0	12,852.8	7,740.0	95.9	95.9	90.00	5,308.8	305.1	764.1	572.8	191.29	3.994		
13,000.0	7,740.0	12,952.8	7,740.0	97.6	97.6	90.00	5,408.8	303.4	763.8	569.0	194.77	3.922		
13,100.0	7,740.0	13,052.8	7,740.0	99.3	99.4	90.00	5,508.8	301.6	763.6	565.3	198.24	3.852		
13,200.0	7,740.0	13,152.8	7,740.0	101.1	101.1	90.00	5,608.7	299.9	763.3	561.6	201.72	3.784		
13,300.0	7,740.0	13,252.8	7,740.0	102.8	102.8	90.00	5,708.7	298.1	763.1	557.9	205.20	3.719		
13,400.0	7,740.0	13,352.8	7,740.0	104.5	104.6	90.00	5,808.7	296.4	762.8	554.1	208.68	3.655		
13,500.0	7,740.0	13,452.8	7,740.0	106.3	106.3	90.00	5,908.7	294.6	762.6	550.4	212.16	3.594		
13,600.0	7,740.0	13,552.8	7,740.0	108.0	108.0	90.00	6,008.7	292.9	762.3	546.7	215.65	3.535		
13,700.0	7,740.0	13,652.8	7,740.0	109.8	109.8	90.00	6,108.7	291.1	762.1	542.9	219.13	3.478		
13,800.0	7,740.0	13,752.8	7,740.0	111.5	111.5	90.00	6,208.6	289.4	761.8	539.2	222.61	3.422		
13,900.0	7,740.0	13,852.8	7,740.0	113.2	113.3	90.00	6,308.6	287.7	761.6	535.5	226.10	3.368		
14,000.0	7,740.0	13,952.8	7,740.0	115.0	115.0	90.00	6,408.6	285.9	761.3	531.7	229.58	3.316		
14,100.0	7,740.0	14,052.8	7,740.0	116.7	116.7	90.00	6,508.6	284.2	761.1	528.0	233.07	3.265		
14,200.0	7,740.0	14,164.3	7,740.0	118.4	118.7	90.00	6,620.1	281.6	760.2	523.5	236.73	3.211		
14,300.0	7,740.0	14,279.5	7,740.0	120.2	120.7	90.00	6,735.2	276.7	757.5	517.1	240.36	3.151		
14,400.0	7,740.0	14,387.3	7,740.0	121.9	122.5	90.00	6,842.8	270.2	752.9	509.0	243.88	3.087		
14,500.0	7,740.0	14,487.2	7,740.0	123.7	124.3	90.00	6,942.5	263.9	748.1	500.7	247.37	3.024		
14,600.0	7,740.0	14,587.1	7,740.0	125.4	126.0	90.00	7,042.2	257.5	743.3	492.4	250.85	2.963		
14,681.2	7,740.0	14,633.9	7,740.0	126.8	126.8	90.00	7,088.9	254.6	740.1	486.8	253.34	2.922 SF		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.02	0.0	22.4	22.4	22.1	0.30	73.728		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	22.4	22.4	21.7	0.65	34.301	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	-151.06	0.0	22.4	23.2	22.1	1.00	23.103		
400.0	400.0	400.0	400.0	0.7	0.7	-153.90	0.0	22.4	25.5	24.1	1.35	18.840		
500.0	499.9	499.9	499.9	0.9	0.8	-157.62	0.0	22.4	29.5	27.7	1.70	17.299		
600.0	599.7	599.1	599.1	1.1	1.0	-160.95	-0.1	23.2	36.0	33.9	2.05	17.544		
700.0	699.5	698.0	698.0	1.3	1.2	-175.37	-0.4	25.8	44.8	42.4	2.40	18.699		
800.0	799.3	796.7	796.6	1.5	1.4	-177.73	-0.8	30.0	55.0	52.2	2.74	20.040		
900.0	899.1	895.0	894.7	1.7	1.6	-176.45	-1.5	35.9	66.8	63.7	3.09	21.620		
1,000.0	998.9	992.8	992.2	1.9	1.8	-175.25	-2.3	43.5	80.2	76.8	3.43	23.375		
1,100.0	1,098.7	1,090.9	1,089.9	2.1	2.0	-174.18	-3.3	52.5	95.2	91.4	3.78	25.200		
1,200.0	1,198.6	1,189.7	1,188.2	2.3	2.2	-173.36	-4.3	61.9	110.5	106.4	4.13	26.768		
1,300.0	1,298.4	1,288.5	1,286.6	2.5	2.4	-172.74	-5.3	71.3	125.8	121.3	4.48	28.096		
1,400.0	1,398.2	1,387.4	1,385.0	2.7	2.6	-172.25	-6.3	80.7	141.1	136.3	4.83	29.234		
1,500.0	1,498.0	1,486.2	1,483.3	2.9	2.9	-171.86	-7.3	90.0	156.4	151.2	5.17	30.221		
1,600.0	1,597.8	1,585.0	1,581.7	3.1	3.1	-171.54	-8.3	99.4	171.7	166.2	5.52	31.085		
1,700.0	1,697.6	1,683.8	1,680.1	3.3	3.3	-171.27	-9.3	108.8	187.0	181.1	5.87	31.847		
1,800.0	1,797.5	1,782.6	1,778.4	3.5	3.6	-171.04	-10.3	118.2	202.3	196.1	6.22	32.524		
1,900.0	1,897.3	1,881.4	1,876.8	3.7	3.8	-170.85	-11.3	127.6	217.6	211.1	6.57	33.130		
2,000.0	1,997.1	1,980.3	1,975.2	3.9	4.0	-170.68	-12.3	137.0	233.0	226.0	6.92	33.675		
2,100.0	2,096.9	2,079.1	2,073.5	4.1	4.3	-170.53	-13.4	146.4	248.3	241.0	7.27	34.168		
2,200.0	2,196.7	2,177.9	2,171.9	4.3	4.5	-170.40	-14.4	155.8	263.6	256.0	7.62	34.616		
2,300.0	2,296.5	2,276.7	2,270.3	4.5	4.7	-170.28	-15.4	165.1	278.9	271.0	7.96	35.026		
2,400.0	2,396.4	2,375.5	2,368.6	4.7	5.0	-170.17	-16.4	174.5	294.3	286.0	8.31	35.401		
2,500.0	2,496.2	2,474.3	2,467.0	4.9	5.2	-170.08	-17.4	183.9	309.6	300.9	8.66	35.746		
2,600.0	2,596.0	2,573.2	2,565.3	5.1	5.4	-169.99	-18.4	193.3	324.9	315.9	9.01	36.064		
2,700.0	2,695.8	2,672.0	2,663.7	5.3	5.7	-169.92	-19.4	202.7	340.3	330.9	9.36	36.359		
2,800.0	2,795.6	2,770.8	2,762.1	5.5	5.9	-169.84	-20.4	212.1	355.6	345.9	9.71	36.633		
2,900.0	2,895.5	2,869.6	2,860.4	5.7	6.1	-169.78	-21.4	221.5	370.9	360.9	10.06	36.888		
3,000.0	2,995.3	2,968.4	2,958.8	5.9	6.4	-169.72	-22.5	230.8	386.3	375.9	10.40	37.126		
3,100.0	3,095.1	3,067.2	3,057.2	6.1	6.6	-169.66	-23.5	240.2	401.6	390.8	10.75	37.348		
3,200.0	3,194.9	3,166.1	3,155.5	6.3	6.9	-169.61	-24.5	249.6	416.9	405.8	11.10	37.557		
3,300.0	3,294.7	3,264.9	3,253.9	6.5	7.1	-169.56	-25.5	259.0	432.3	420.8	11.45	37.753		
3,400.0	3,394.5	3,363.7	3,352.3	6.7	7.3	-169.52	-26.5	268.4	447.6	435.8	11.80	37.937		
3,500.0	3,494.4	3,462.5	3,450.6	6.9	7.6	-169.48	-27.5	277.8	462.9	450.8	12.15	38.111		
3,600.0	3,594.2	3,561.3	3,549.0	7.2	7.8	-169.44	-28.5	287.2	478.3	465.8	12.50	38.275		
3,700.0	3,694.0	3,660.1	3,647.4	7.4	8.0	-169.40	-29.5	296.6	493.6	480.7	12.84	38.430		
3,800.0	3,793.8	3,759.0	3,745.7	7.6	8.3	-169.37	-30.5	305.9	508.9	495.7	13.19	38.577		
3,900.0	3,893.6	3,857.8	3,844.1	7.8	8.5	-169.33	-31.5	315.3	524.3	510.7	13.54	38.717		
4,000.0	3,993.5	3,956.6	3,942.5	8.0	8.8	-169.30	-32.6	324.7	539.6	525.7	13.89	38.849		
4,100.0	4,093.3	4,055.4	4,040.8	8.2	9.0	-169.28	-33.6	334.1	554.9	540.7	14.24	38.975		
4,200.0	4,193.1	4,154.2	4,139.2	8.4	9.2	-169.25	-34.6	343.5	570.3	555.7	14.59	39.095		
4,300.0	4,292.9	4,253.0	4,237.6	8.6	9.5	-169.22	-35.6	352.9	585.6	570.7	14.93	39.210		
4,400.0	4,392.7	4,351.9	4,335.9	8.8	9.7	-169.20	-36.6	362.3	600.9	585.7	15.28	39.319		
4,500.0	4,492.5	4,450.7	4,434.3	9.0	9.9	-169.17	-37.6	371.6	616.3	600.6	15.63	39.424		
4,600.0	4,592.4	4,549.5	4,532.6	9.2	10.2	-169.15	-38.6	381.0	631.6	615.6	15.98	39.523		
4,700.0	4,692.2	4,648.3	4,631.0	9.4	10.4	-169.13	-39.6	390.4	646.9	630.6	16.33	39.619		
4,800.0	4,792.0	4,747.1	4,729.4	9.6	10.7	-169.11	-40.6	399.8	662.3	645.6	16.68	39.711		
4,900.0	4,891.8	4,845.9	4,827.7	9.8	10.9	-169.09	-41.7	409.2	677.6	660.6	17.03	39.799		
5,000.0	4,991.6	4,944.8	4,926.1	10.0	11.1	-169.07	-42.7	418.6	692.9	675.6	17.37	39.883		
5,100.0	5,091.5	5,043.6	5,024.5	10.2	11.4	-169.06	-43.7	428.0	708.3	690.6	17.72	39.964		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,200.0	5,191.3	5,142.4	5,122.8	10.4	11.6	-169.04	-44.7	437.4	723.6	705.5	18.07	40.042	
5,300.0	5,291.1	5,241.2	5,221.2	10.6	11.9	-169.02	-45.7	446.7	739.0	720.5	18.42	40.117	
5,400.0	5,390.9	5,340.0	5,319.6	10.8	12.1	-169.01	-46.7	456.1	754.3	735.5	18.77	40.189	
5,500.0	5,490.7	5,438.8	5,417.9	11.0	12.3	-168.99	-47.7	465.5	769.6	750.5	19.12	40.259	
5,600.0	5,590.5	5,537.7	5,516.3	11.2	12.6	-168.98	-48.7	474.9	785.0	765.5	19.47	40.326	
5,700.0	5,690.4	5,636.5	5,614.7	11.4	12.8	-168.96	-49.7	484.3	800.3	780.5	19.81	40.390	
5,800.0	5,790.2	5,735.3	5,713.0	11.6	13.0	-168.95	-50.8	493.7	815.6	795.5	20.16	40.453	
5,900.0	5,890.0	5,834.1	5,811.4	11.8	13.3	-168.94	-51.8	503.1	831.0	810.5	20.51	40.513	
6,000.0	5,989.8	5,932.9	5,909.8	12.0	13.5	-168.93	-52.8	512.4	846.3	825.4	20.86	40.572	
6,100.0	6,089.6	6,031.7	6,008.1	12.2	13.8	-168.91	-53.8	521.8	861.6	840.4	21.21	40.628	
6,200.0	6,189.5	6,130.6	6,106.5	12.5	14.0	-168.90	-54.8	531.2	877.0	855.4	21.56	40.683	
6,300.0	6,289.3	6,229.4	6,204.8	12.7	14.2	-168.89	-55.8	540.6	892.3	870.4	21.91	40.736	
6,400.0	6,389.1	6,328.2	6,303.2	12.9	14.5	-168.88	-56.8	550.0	907.7	885.4	22.25	40.787	
6,500.0	6,488.9	6,427.0	6,401.6	13.1	14.7	-168.87	-57.8	559.4	923.0	900.4	22.60	40.837	
6,600.0	6,588.7	6,525.8	6,499.9	13.3	15.0	-168.86	-58.8	568.8	938.3	915.4	22.95	40.885	
6,700.0	6,688.5	6,624.7	6,598.3	13.5	15.2	-168.85	-59.8	578.2	953.7	930.4	23.30	40.931	
6,800.0	6,788.4	6,723.5	6,696.7	13.7	15.4	-168.84	-60.9	587.5	969.0	945.3	23.65	40.977	
6,900.0	6,888.2	6,822.3	6,795.0	13.9	15.7	-168.83	-61.9	596.9	984.3	960.3	24.00	41.021	
7,000.0	6,988.0	6,921.1	6,893.4	14.1	15.9	-168.82	-62.9	606.3	999.7	975.3	24.34	41.063	
7,100.0	7,087.8	7,015.0	6,986.8	14.3	16.1	-169.01	-60.4	615.3	1,015.2	990.5	24.67	41.157	
11,000.0	7,740.0	10,894.7	7,500.0	63.1	66.0	77.38	3,543.7	639.7	1,108.8	985.2	123.55	8.974	
11,100.0	7,740.0	10,996.3	7,500.0	64.8	67.7	77.22	3,644.4	625.5	1,095.2	968.4	126.80	8.637	
11,200.0	7,740.0	11,095.4	7,500.0	66.6	69.3	77.09	3,742.5	611.7	1,082.4	952.3	130.06	8.322	
11,300.0	7,740.0	11,194.7	7,500.0	68.3	71.0	76.94	3,840.8	597.9	1,070.3	936.9	133.33	8.027	
11,400.0	7,740.0	11,288.5	7,500.0	70.0	72.5	76.80	3,933.7	584.9	1,058.2	921.6	136.60	7.747	
11,500.0	7,740.0	11,372.8	7,500.0	71.7	74.0	76.68	4,017.3	574.3	1,047.3	907.5	139.88	7.487	
11,600.0	7,740.0	11,457.3	7,500.0	73.4	75.4	76.58	4,101.3	564.8	1,037.9	894.7	143.15	7.251	
11,700.0	7,740.0	11,542.1	7,500.0	75.1	76.8	76.49	4,185.7	556.5	1,029.9	883.5	146.40	7.035	
11,800.0	7,740.0	11,627.1	7,500.0	76.9	78.3	76.41	4,270.4	549.5	1,023.3	873.6	149.64	6.838	
11,900.0	7,740.0	11,712.2	7,500.0	78.6	79.7	76.35	4,355.3	543.7	1,018.1	865.3	152.87	6.660	
12,000.0	7,740.0	11,800.0	7,500.0	80.3	81.2	76.31	4,443.0	539.1	1,014.4	858.3	156.10	6.499	
12,100.0	7,740.0	11,882.8	7,500.0	82.0	82.6	76.28	4,525.7	536.0	1,012.2	852.9	159.27	6.355	
12,200.0	7,740.0	11,968.1	7,500.0	83.7	84.1	76.27	4,611.0	534.0	1,011.4	848.9	162.45	6.226	
12,205.6	7,740.0	11,972.9	7,500.0	83.8	84.2	76.27	4,615.8	533.9	1,011.4	848.8	162.62	6.219	
12,300.0	7,740.0	12,053.5	7,500.0	85.5	85.6	76.28	4,696.4	533.3	1,012.0	846.4	165.60	6.111	
12,400.0	7,740.0	12,138.8	7,500.0	87.2	87.1	76.30	4,781.7	533.8	1,014.1	845.4	168.74	6.010	
12,500.0	7,740.0	12,233.1	7,500.0	88.9	88.7	76.35	4,876.0	535.6	1,017.4	845.3	172.03	5.914	
12,600.0	7,740.0	12,333.1	7,500.0	90.7	90.4	76.39	4,975.9	537.6	1,020.7	845.3	175.43	5.818	
12,700.0	7,740.0	12,433.0	7,500.0	92.4	92.1	76.44	5,075.8	539.5	1,024.1	845.3	178.84	5.726	
12,800.0	7,740.0	12,532.9	7,500.0	94.1	93.9	76.48	5,175.8	541.5	1,027.5	845.2	182.25	5.638	
12,900.0	7,740.0	12,632.9	7,500.0	95.9	95.6	76.53	5,275.7	543.5	1,030.8	845.2	185.66	5.552	
13,000.0	7,740.0	12,732.8	7,500.0	97.6	97.3	76.57	5,375.6	545.5	1,034.2	845.1	189.07	5.470	
13,100.0	7,740.0	12,832.8	7,500.0	99.3	99.1	76.62	5,475.5	547.4	1,037.6	845.1	192.49	5.390	
13,200.0	7,740.0	12,932.7	7,500.0	101.1	100.8	76.66	5,575.4	549.4	1,041.0	845.1	195.91	5.314	
13,300.0	7,740.0	13,032.6	7,500.0	102.8	102.5	76.71	5,675.4	551.4	1,044.3	845.0	199.33	5.239	
13,400.0	7,740.0	13,132.6	7,500.0	104.5	104.3	76.75	5,775.3	553.3	1,047.7	845.0	202.75	5.168	
13,500.0	7,740.0	13,232.5	7,500.0	106.3	106.0	76.79	5,875.2	555.3	1,051.1	844.9	206.17	5.098	
13,600.0	7,740.0	13,332.5	7,500.0	108.0	107.7	76.84	5,975.1	557.3	1,054.5	844.9	209.59	5.031	
13,700.0	7,740.0	13,432.4	7,500.0	109.8	109.5	76.88	6,075.0	559.3	1,057.8	844.8	213.02	4.966	
13,800.0	7,740.0	13,532.3	7,500.0	111.5	111.2	76.92	6,175.0	561.2	1,061.2	844.8	216.45	4.903	
13,900.0	7,740.0	13,632.3	7,500.0	113.2	113.0	76.96	6,274.9	563.2	1,064.6	844.7	219.88	4.842	
14,000.0	7,740.0	13,732.2	7,500.0	115.0	114.7	77.01	6,374.8	565.2	1,068.0	844.7	223.31	4.782	

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

Cathedral Energy Services

Anticollision Report

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

Offset Design												S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #5		Offset Site Error:		0.0 ft	
Survey Program:												0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
14,100.0	7,740.0	13,832.2	7,500.0	116.7	116.4	77.05	6,474.7	567.1	1,071.3	844.6	226.74	4.725					
14,200.0	7,740.0	13,932.1	7,500.0	118.4	118.2	77.09	6,574.6	569.1	1,074.7	844.5	230.17	4.669					
14,300.0	7,740.0	14,032.0	7,500.0	120.2	119.9	77.13	6,674.6	571.1	1,078.1	844.5	233.61	4.615					
14,400.0	7,740.0	14,132.0	7,500.0	121.9	121.7	77.17	6,774.5	573.0	1,081.5	844.4	237.04	4.562					
14,500.0	7,740.0	14,231.9	7,500.0	123.7	123.4	77.21	6,874.4	575.0	1,084.9	844.4	240.48	4.511					
14,600.0	7,740.0	14,331.9	7,500.0	125.4	125.1	77.25	6,974.3	577.0	1,088.2	844.3	243.92	4.461					
14,681.2	7,740.0	14,413.0	7,500.0	126.8	126.6	77.28	7,055.5	578.6	1,091.0	844.3	246.72	4.422 SF					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	29.9	29.9				
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	29.9	29.9	29.6	0.30	98.612	
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	29.9	29.9	29.3	0.65	45.878 CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	-150.81	0.0	29.9	30.7	29.7	1.00	30.644	
400.0	400.0	400.0	400.0	0.7	0.7	-153.02	0.0	29.9	33.0	31.7	1.35	24.418	
500.0	499.9	499.2	499.2	0.9	0.8	-155.82	-0.1	30.8	37.8	36.1	1.70	22.219 SF	
600.0	599.7	598.2	598.1	1.1	1.0	-158.34	-0.2	33.4	46.0	43.9	2.05	22.418	
700.0	699.5	696.7	696.6	1.3	1.2	-172.74	-0.5	37.6	56.5	54.1	2.40	23.569	
800.0	799.3	795.0	794.7	1.5	1.4	-175.54	-0.9	43.5	68.4	65.6	2.74	24.942	
900.0	899.1	892.8	892.2	1.7	1.6	-174.72	-1.4	51.1	81.9	78.8	3.08	26.556	
1,000.0	998.9	990.1	989.1	1.9	1.8	-173.95	-2.1	60.2	97.1	93.7	3.43	28.345	
1,100.0	1,098.7	1,086.9	1,085.3	2.1	2.0	-173.23	-2.8	71.0	114.0	110.3	3.77	30.262	
1,200.0	1,198.6	1,185.1	1,182.7	2.3	2.3	-172.62	-3.6	82.9	131.9	127.8	4.11	32.067	
1,300.0	1,298.4	1,283.4	1,280.3	2.5	2.5	-172.15	-4.4	94.9	149.9	145.4	4.46	33.589	
1,400.0	1,398.2	1,381.8	1,378.0	2.7	2.8	-171.78	-5.2	106.8	167.8	163.0	4.81	34.893	
1,500.0	1,498.0	1,480.2	1,475.6	2.9	3.1	-171.48	-6.0	118.8	185.8	180.6	5.16	36.023	
1,600.0	1,597.8	1,578.5	1,573.2	3.1	3.3	-171.24	-6.8	130.7	203.7	198.2	5.50	37.012	
1,700.0	1,697.6	1,676.9	1,670.9	3.3	3.6	-171.03	-7.7	142.7	221.7	215.8	5.85	37.884	
1,800.0	1,797.5	1,775.3	1,768.5	3.5	3.8	-170.86	-8.5	154.6	239.7	233.5	6.20	38.659	
1,900.0	1,897.3	1,873.7	1,866.2	3.7	4.1	-170.71	-9.3	166.6	257.6	251.1	6.55	39.352	
2,000.0	1,997.1	1,972.0	1,963.8	3.9	4.4	-170.57	-10.1	178.6	275.6	268.7	6.89	39.975	
2,100.0	2,096.9	2,070.4	2,061.4	4.1	4.6	-170.46	-10.9	190.5	293.6	286.3	7.24	40.540	
2,200.0	2,196.7	2,168.8	2,159.1	4.3	4.9	-170.36	-11.7	202.5	311.5	303.9	7.59	41.052	
2,300.0	2,296.5	2,267.1	2,256.7	4.5	5.2	-170.27	-12.5	214.4	329.5	321.6	7.94	41.520	
2,400.0	2,396.4	2,365.5	2,354.3	4.7	5.4	-170.19	-13.3	226.4	347.5	339.2	8.28	41.949	
2,500.0	2,496.2	2,463.9	2,452.0	4.9	5.7	-170.11	-14.2	238.4	365.4	356.8	8.63	42.344	
2,600.0	2,596.0	2,562.3	2,549.6	5.1	6.0	-170.05	-15.0	250.3	383.4	374.4	8.98	42.708	
2,700.0	2,695.8	2,660.6	2,647.3	5.3	6.2	-169.99	-15.8	262.3	401.4	392.1	9.32	43.045	
2,800.0	2,795.6	2,759.0	2,744.9	5.5	6.5	-169.93	-16.6	274.2	419.4	409.7	9.67	43.358	
2,900.0	2,895.5	2,857.4	2,842.5	5.7	6.8	-169.88	-17.4	286.2	437.3	427.3	10.02	43.649	
3,000.0	2,995.3	2,955.7	2,940.2	5.9	7.1	-169.83	-18.2	298.2	455.3	444.9	10.37	43.921	
3,100.0	3,095.1	3,054.1	3,037.8	6.1	7.3	-169.79	-19.0	310.1	473.3	462.6	10.71	44.176	
3,200.0	3,194.9	3,152.5	3,135.4	6.3	7.6	-169.75	-19.8	322.1	491.3	480.2	11.06	44.414	
3,300.0	3,294.7	3,250.9	3,233.1	6.5	7.9	-169.71	-20.7	334.0	509.2	497.8	11.41	44.638	
3,400.0	3,394.5	3,349.2	3,330.7	6.7	8.1	-169.68	-21.5	346.0	527.2	515.5	11.76	44.849	
3,500.0	3,494.4	3,447.6	3,428.4	6.9	8.4	-169.65	-22.3	357.9	545.2	533.1	12.10	45.047	
3,600.0	3,594.2	3,546.0	3,526.0	7.2	8.7	-169.62	-23.1	369.9	563.2	550.7	12.45	45.235	
3,700.0	3,694.0	3,644.3	3,623.6	7.4	8.9	-169.59	-23.9	381.9	581.1	568.3	12.80	45.413	
3,800.0	3,793.8	3,742.7	3,721.3	7.6	9.2	-169.56	-24.7	393.8	599.1	586.0	13.14	45.581	
3,900.0	3,893.6	3,841.1	3,818.9	7.8	9.5	-169.54	-25.5	405.8	617.1	603.6	13.49	45.740	
4,000.0	3,993.5	3,939.4	3,916.5	8.0	9.8	-169.51	-26.3	417.7	635.1	621.2	13.84	45.892	
4,100.0	4,093.3	4,037.8	4,014.2	8.2	10.0	-169.49	-27.2	429.7	653.0	638.9	14.19	46.036	
4,200.0	4,193.1	4,136.2	4,111.8	8.4	10.3	-169.47	-28.0	441.7	671.0	656.5	14.53	46.173	
4,300.0	4,292.9	4,234.6	4,209.5	8.6	10.6	-169.45	-28.8	453.6	689.0	674.1	14.88	46.304	
4,400.0	4,392.7	4,332.9	4,307.1	8.8	10.8	-169.43	-29.6	465.6	707.0	691.7	15.23	46.429	
4,500.0	4,492.5	4,431.3	4,404.7	9.0	11.1	-169.41	-30.4	477.5	724.9	709.4	15.57	46.548	
4,600.0	4,592.4	4,529.7	4,502.4	9.2	11.4	-169.40	-31.2	489.5	742.9	727.0	15.92	46.662	
4,700.0	4,692.2	4,628.0	4,600.0	9.4	11.6	-169.38	-32.0	501.5	760.9	744.6	16.27	46.771	
4,800.0	4,792.0	4,726.4	4,697.7	9.6	11.9	-169.36	-32.8	513.4	778.9	762.3	16.62	46.876	
4,900.0	4,891.8	4,824.8	4,795.3	9.8	12.2	-169.35	-33.7	525.4	796.8	779.9	16.96	46.977	
5,000.0	4,991.6	4,923.2	4,892.9	10.0	12.5	-169.33	-34.5	537.3	814.8	797.5	17.31	47.073	
5,100.0	5,091.5	5,021.5	4,990.6	10.2	12.7	-169.32	-35.3	549.3	832.8	815.1	17.66	47.166	

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-7H-E168 - Hz - Plan #3		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
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)								
5,200.0	5,191.3	5,119.9	5,088.2	10.4	13.0	-169.31	-36.1	561.2	850.8	832.8	18.00	47.255						
5,300.0	5,291.1	5,218.3	5,185.8	10.6	13.3	-169.29	-36.9	573.2	868.7	850.4	18.35	47.340						
5,400.0	5,390.9	5,316.6	5,283.5	10.8	13.5	-169.28	-37.7	585.2	886.7	868.0	18.70	47.423						
5,500.0	5,490.7	5,415.0	5,381.1	11.0	13.8	-169.27	-38.5	597.1	904.7	885.7	19.05	47.502						
5,600.0	5,590.5	5,513.4	5,478.8	11.2	14.1	-169.26	-39.3	609.1	922.7	903.3	19.39	47.579						
5,700.0	5,690.4	5,611.8	5,576.4	11.4	14.4	-169.25	-40.2	621.0	940.7	920.9	19.74	47.653						
5,800.0	5,790.2	5,710.1	5,674.0	11.6	14.6	-169.24	-41.0	633.0	958.6	938.5	20.09	47.724						
5,900.0	5,890.0	5,808.5	5,771.7	11.8	14.9	-169.23	-41.8	645.0	976.6	956.2	20.43	47.793						
6,000.0	5,989.8	5,906.9	5,869.3	12.0	15.2	-169.22	-42.6	656.9	994.6	973.8	20.78	47.860						
6,100.0	6,089.6	6,005.2	5,966.9	12.2	15.4	-169.21	-43.4	668.9	1,012.6	991.4	21.13	47.925						

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.56	-0.4	37.5	37.5					
100.0	100.0	100.0	100.0	0.2	0.2	90.56	-0.4	37.5	37.5	37.2	0.30	123.501		
200.0	200.0	200.0	200.0	0.3	0.3	90.56	-0.4	37.5	37.5	36.9	0.65	57.458 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-150.10	-0.4	37.5	38.3	37.3	1.00	38.182		
400.0	400.0	399.3	399.2	0.7	0.7	-152.04	-0.2	38.4	41.4	40.1	1.35	30.658		
500.0	499.9	498.2	498.2	0.9	0.9	-154.74	0.1	40.9	47.9	46.2	1.70	28.183 SF		
600.0	599.7	596.8	596.7	1.1	1.0	-157.48	0.7	45.1	57.8	55.7	2.05	28.222		
700.0	699.5	694.9	694.6	1.3	1.2	-172.57	1.5	51.0	70.1	67.7	2.39	29.315		
800.0	799.3	792.7	792.1	1.5	1.4	-176.33	2.5	58.5	83.8	81.1	2.73	30.674		
900.0	899.1	889.9	888.9	1.7	1.7	-176.41	3.7	67.6	99.2	96.2	3.07	32.293		
1,000.0	998.9	986.7	985.0	1.9	1.9	-176.43	5.1	78.2	116.3	112.9	3.41	34.098		
1,100.0	1,098.7	1,082.8	1,080.3	2.1	2.1	-176.44	6.8	90.4	135.0	131.3	3.75	36.040		
1,200.0	1,198.6	1,178.3	1,174.8	2.3	2.4	-176.42	8.6	104.1	155.4	151.3	4.08	38.085		
1,300.0	1,298.4	1,273.1	1,268.4	2.5	2.7	-176.39	10.7	119.2	177.4	173.0	4.41	40.212		
1,400.0	1,398.2	1,367.1	1,361.0	2.7	3.0	-176.36	12.9	135.7	201.0	196.3	4.74	42.403		
1,500.0	1,498.0	1,461.0	1,453.1	2.9	3.4	-176.32	15.3	153.7	226.2	221.1	5.07	44.623		
1,600.0	1,597.8	1,557.7	1,547.8	3.1	3.7	-176.28	17.9	172.7	251.9	246.5	5.41	46.565		
1,700.0	1,697.6	1,654.3	1,642.5	3.3	4.1	-176.25	20.5	191.7	277.6	271.8	5.75	48.277		
1,800.0	1,797.5	1,750.9	1,737.2	3.5	4.5	-176.23	23.1	210.7	303.3	297.2	6.09	49.798		
1,900.0	1,897.3	1,847.6	1,831.9	3.7	4.8	-176.21	25.6	229.8	329.0	322.6	6.43	51.159		
2,000.0	1,997.1	1,944.2	1,926.6	3.9	5.2	-176.19	28.2	248.8	354.8	348.0	6.77	52.382		
2,100.0	2,096.9	2,040.8	2,021.3	4.1	5.6	-176.18	30.8	267.8	380.5	373.4	7.11	53.489		
2,200.0	2,196.7	2,137.5	2,116.1	4.3	5.9	-176.16	33.3	286.8	406.2	398.8	7.45	54.495		
2,300.0	2,296.5	2,234.1	2,210.8	4.5	6.3	-176.15	35.9	305.9	431.9	424.1	7.79	55.413		
2,400.0	2,396.4	2,330.7	2,305.5	4.7	6.7	-176.14	38.5	324.9	457.7	449.5	8.14	56.254		
2,500.0	2,496.2	2,427.4	2,400.2	4.9	7.0	-176.13	41.1	343.9	483.4	474.9	8.48	57.027		
2,600.0	2,596.0	2,524.0	2,494.9	5.1	7.4	-176.12	43.6	362.9	509.1	500.3	8.82	57.741		
2,700.0	2,695.8	2,620.6	2,589.6	5.3	7.8	-176.12	46.2	382.0	534.8	525.7	9.16	58.402		
2,800.0	2,795.6	2,717.3	2,684.3	5.5	8.2	-176.11	48.8	401.0	560.5	551.0	9.50	59.016		
2,900.0	2,895.5	2,813.9	2,779.0	5.7	8.6	-176.10	51.3	420.0	586.3	576.4	9.84	59.587		
3,000.0	2,995.3	2,910.5	2,873.7	5.9	8.9	-176.10	53.9	439.0	612.0	601.8	10.18	60.120		
3,100.0	3,095.1	3,007.2	2,968.4	6.1	9.3	-176.09	56.5	458.1	637.7	627.2	10.52	60.619		
3,200.0	3,194.9	3,103.8	3,063.1	6.3	9.7	-176.09	59.1	477.1	663.4	652.6	10.86	61.086		
3,300.0	3,294.7	3,200.5	3,157.9	6.5	10.1	-176.08	61.6	496.1	689.1	677.9	11.20	61.525		
3,400.0	3,394.5	3,297.1	3,252.6	6.7	10.4	-176.08	64.2	515.1	714.9	703.3	11.54	61.938		
3,500.0	3,494.4	3,393.7	3,347.3	6.9	10.8	-176.08	66.8	534.2	740.6	728.7	11.88	62.327		
3,600.0	3,594.2	3,490.4	3,442.0	7.2	11.2	-176.07	69.3	553.2	766.3	754.1	12.22	62.695		
3,700.0	3,694.0	3,587.0	3,536.7	7.4	11.6	-176.07	71.9	572.2	792.0	779.5	12.56	63.043		
3,800.0	3,793.8	3,683.6	3,631.4	7.6	12.0	-176.07	74.5	591.2	817.8	804.9	12.90	63.372		
3,900.0	3,893.6	3,780.3	3,726.1	7.8	12.3	-176.06	77.1	610.3	843.5	830.2	13.24	63.685		
4,000.0	3,993.5	3,876.9	3,820.8	8.0	12.7	-176.06	79.6	629.3	869.2	855.6	13.59	63.982		
4,100.0	4,093.3	3,973.5	3,915.5	8.2	13.1	-176.06	82.2	648.3	894.9	881.0	13.93	64.264		
4,200.0	4,193.1	4,070.2	4,010.2	8.4	13.5	-176.06	84.8	667.3	920.6	906.4	14.27	64.533		
4,300.0	4,292.9	4,166.8	4,104.9	8.6	13.8	-176.05	87.3	686.4	946.4	931.8	14.61	64.790		
4,400.0	4,392.7	4,263.4	4,199.7	8.8	14.2	-176.05	89.9	705.4	972.1	957.1	14.95	65.034		
4,500.0	4,492.5	4,360.1	4,294.4	9.0	14.6	-176.05	92.5	724.4	997.8	982.5	15.29	65.268		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2G-7H-E168 - Hz - Plan #3														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.47	-0.4	44.8	44.8						
100.0	100.0	100.0	100.0	0.2	0.2	90.47	-0.4	44.8	44.8	44.5	0.30	147.462			
200.0	200.0	200.0	200.0	0.3	0.3	90.47	-0.4	44.8	44.8	44.1	0.65	68.605 CC, ES			
300.0	300.0	299.6	299.6	0.5	0.5	-150.03	-0.4	45.0	45.7	44.7	1.00	45.688			
400.0	400.0	398.7	398.7	0.7	0.7	-151.16	-0.7	46.7	49.7	48.4	1.35	36.842			
500.0	499.9	497.5	497.5	0.9	0.9	-152.56	-1.3	50.0	57.0	55.3	1.70	33.521			
600.0	599.7	595.9	595.7	1.1	1.0	-153.93	-2.2	55.1	67.4	65.4	2.05	32.903 SF			
700.0	699.5	693.9	693.4	1.3	1.2	-167.91	-3.4	61.7	80.2	77.8	2.40	33.490			
800.0	799.3	791.4	790.6	1.5	1.5	-170.78	-4.8	70.0	94.5	91.8	2.74	34.477			
900.0	899.1	888.5	887.1	1.7	1.7	-170.03	-6.5	79.8	110.4	107.3	3.08	35.787			
1,000.0	998.9	984.9	982.9	1.9	1.9	-169.31	-8.5	91.1	127.9	124.5	3.43	37.327			
1,100.0	1,098.7	1,080.8	1,077.9	2.1	2.2	-168.63	-10.8	104.0	147.1	143.3	3.77	39.038			
1,200.0	1,198.6	1,176.0	1,172.0	2.3	2.5	-168.00	-13.3	118.3	167.9	163.8	4.11	40.879			
1,300.0	1,298.4	1,270.6	1,265.2	2.5	2.8	-167.42	-16.1	134.1	190.3	185.9	4.44	42.822			
1,400.0	1,398.2	1,364.4	1,357.4	2.7	3.1	-166.89	-19.1	151.2	214.3	209.5	4.78	44.847			
1,500.0	1,498.0	1,457.4	1,448.5	2.9	3.5	-166.41	-22.4	169.6	239.9	234.8	5.11	46.939			
1,600.0	1,597.8	1,549.6	1,538.5	3.1	3.9	-165.97	-25.9	189.3	267.0	261.5	5.44	49.087			
1,700.0	1,697.6	1,641.0	1,627.3	3.3	4.3	-165.57	-29.5	210.2	295.6	289.9	5.76	51.283			
1,800.0	1,797.5	1,731.4	1,715.0	3.5	4.7	-165.20	-33.4	232.3	325.8	319.7	6.09	53.522			
1,900.0	1,897.3	1,825.1	1,805.5	3.7	5.1	-164.93	-37.2	256.2	357.0	350.6	6.42	55.589			
2,000.0	1,997.1	1,919.7	1,896.8	3.9	5.6	-164.95	-39.4	280.5	388.4	381.6	6.76	57.458			
2,100.0	2,096.9	2,016.9	1,990.8	4.1	6.0	-165.18	-40.2	305.6	419.7	412.6	7.11	59.062			
2,200.0	2,196.7	2,120.1	2,090.9	4.3	6.5	-165.43	-40.6	330.8	449.7	442.3	7.48	60.149			
2,300.0	2,296.5	2,218.3	2,186.4	4.5	6.9	-165.64	-41.1	353.4	478.5	470.7	7.83	61.139			
2,400.0	2,396.4	2,314.1	2,279.6	4.7	7.3	-165.82	-41.5	375.5	507.2	499.0	8.17	62.106			
2,500.0	2,496.2	2,409.9	2,372.8	4.9	7.8	-165.99	-41.9	397.5	535.8	527.3	8.51	62.996			
2,600.0	2,596.0	2,505.6	2,466.0	5.1	8.2	-166.13	-42.3	419.6	564.5	555.7	8.85	63.818			
2,700.0	2,695.8	2,601.4	2,559.2	5.3	8.6	-166.26	-42.7	441.6	593.2	584.0	9.19	64.578			
2,800.0	2,795.6	2,697.2	2,652.5	5.5	9.0	-166.38	-43.1	463.7	621.9	612.4	9.53	65.285			
2,900.0	2,895.5	2,793.0	2,745.7	5.7	9.4	-166.49	-43.4	485.7	650.6	640.7	9.87	65.942			
3,000.0	2,995.3	2,888.8	2,838.9	5.9	9.9	-166.59	-43.8	507.8	679.3	669.1	10.21	66.556			
3,100.0	3,095.1	2,984.6	2,932.1	6.1	10.3	-166.68	-44.2	529.8	708.0	697.4	10.55	67.131			
3,200.0	3,194.9	3,080.4	3,025.3	6.3	10.7	-166.77	-44.6	551.9	736.7	725.8	10.89	67.669			
3,300.0	3,294.7	3,176.2	3,118.5	6.5	11.1	-166.85	-45.0	573.9	765.4	754.1	11.23	68.175			
3,400.0	3,394.5	3,272.0	3,211.8	6.7	11.6	-166.92	-45.4	596.0	794.1	782.5	11.57	68.651			
3,500.0	3,494.4	3,367.7	3,305.0	6.9	12.0	-166.99	-45.8	618.0	822.8	810.9	11.91	69.100			
3,600.0	3,594.2	3,463.5	3,398.2	7.2	12.4	-167.05	-46.2	640.1	851.5	839.2	12.25	69.524			
3,700.0	3,694.0	3,559.3	3,491.4	7.4	12.8	-167.11	-46.6	662.1	880.2	867.6	12.59	69.925			
3,800.0	3,793.8	3,655.1	3,584.6	7.6	13.3	-167.16	-47.0	684.2	908.9	895.9	12.93	70.305			
3,900.0	3,893.6	3,750.9	3,677.8	7.8	13.7	-167.22	-47.4	706.2	937.6	924.3	13.27	70.666			
4,000.0	3,993.5	3,846.7	3,771.0	8.0	14.1	-167.26	-47.8	728.3	966.3	952.7	13.61	71.008			
4,100.0	4,093.3	3,942.5	3,864.3	8.2	14.6	-167.31	-48.2	750.3	995.0	981.0	13.95	71.334			

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-7H-E168 - Hz - Plan #4											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	90.40	-0.4	52.3	52.3				
100.0	100.0	100.0	100.0	0.2	0.2	90.40	-0.4	52.3	52.3	52.0	0.30	172.344	CC, ES
200.0	200.0	200.0	200.0	0.3	0.3	90.40	-0.4	52.3	52.3	51.7	0.65	80.181	
300.0	300.0	299.1	299.1	0.5	0.5	-150.04	-0.4	53.2	54.0	53.0	1.00	53.940	
400.0	400.0	398.0	397.9	0.7	0.7	-151.19	-0.5	55.8	58.8	57.5	1.35	43.631	
500.0	499.9	496.5	496.4	0.9	0.9	-152.75	-0.6	60.0	67.0	65.3	1.70	39.477	
600.0	599.7	594.6	594.3	1.1	1.1	-154.37	-0.8	65.9	78.4	76.4	2.05	38.347	SF
700.0	699.5	692.2	691.6	1.3	1.3	-168.79	-1.0	73.5	92.3	89.9	2.39	38.617	
800.0	799.3	789.4	788.3	1.5	1.5	-172.22	-1.3	82.6	107.6	104.8	2.73	39.384	
900.0	899.1	886.0	884.3	1.7	1.7	-171.98	-1.6	93.3	124.5	121.4	3.07	40.538	
1,000.0	998.9	982.0	979.6	1.9	2.0	-171.72	-2.0	105.6	143.1	139.7	3.41	41.968	
1,100.0	1,098.7	1,077.4	1,074.0	2.1	2.3	-171.46	-2.4	119.4	163.3	159.6	3.75	43.600	
1,200.0	1,198.6	1,172.1	1,167.5	2.3	2.6	-171.21	-2.9	134.6	185.1	181.1	4.08	45.384	
1,300.0	1,298.4	1,266.1	1,260.0	2.5	2.9	-170.96	-3.4	151.2	208.6	204.2	4.41	47.287	
1,400.0	1,398.2	1,359.3	1,351.5	2.7	3.2	-170.73	-4.0	169.2	233.6	228.9	4.74	49.285	
1,500.0	1,498.0	1,451.8	1,441.8	2.9	3.6	-170.51	-4.6	188.5	260.2	255.1	5.07	51.360	
1,600.0	1,597.8	1,543.4	1,531.1	3.1	4.0	-170.31	-5.2	209.0	288.3	282.9	5.39	53.500	
1,700.0	1,697.6	1,634.1	1,619.2	3.3	4.4	-170.12	-5.9	230.8	318.0	312.2	5.71	55.695	
1,800.0	1,797.5	1,723.9	1,706.0	3.5	4.8	-169.94	-6.6	253.7	349.1	343.1	6.03	57.936	
1,900.0	1,897.3	1,812.8	1,791.6	3.7	5.3	-169.77	-7.4	277.7	381.7	375.4	6.34	60.218	
2,000.0	1,997.1	1,900.0	1,875.2	3.9	5.8	-169.62	-8.1	302.6	415.8	409.1	6.65	62.565	
2,100.0	2,096.9	1,987.6	1,958.8	4.1	6.2	-169.47	-8.9	328.8	451.3	444.3	6.96	64.884	
2,200.0	2,196.7	2,075.0	2,041.8	4.3	6.8	-169.33	-9.8	356.2	488.2	480.9	7.27	67.193	
2,300.0	2,296.5	2,167.8	2,129.7	4.5	7.3	-169.20	-10.7	385.8	525.5	517.9	7.60	69.145	
2,400.0	2,396.4	2,260.6	2,217.7	4.7	7.8	-169.09	-11.6	415.3	562.8	554.9	7.93	70.934	
2,500.0	2,496.2	2,353.4	2,305.6	4.9	8.4	-168.99	-12.5	444.8	600.1	591.8	8.27	72.580	
2,600.0	2,596.0	2,446.1	2,393.6	5.1	8.9	-168.91	-13.5	474.3	637.4	628.8	8.60	74.098	
2,700.0	2,695.8	2,538.9	2,481.5	5.3	9.5	-168.83	-14.4	503.8	674.7	665.8	8.94	75.504	
2,800.0	2,795.6	2,631.7	2,569.5	5.5	10.1	-168.76	-15.3	533.3	712.1	702.8	9.27	76.809	
2,900.0	2,895.5	2,724.4	2,657.4	5.7	10.6	-168.70	-16.2	562.8	749.4	739.8	9.60	78.025	
3,000.0	2,995.3	2,817.2	2,745.4	5.9	11.2	-168.64	-17.1	592.3	786.7	776.8	9.94	79.159	
3,100.0	3,095.1	2,910.0	2,833.3	6.1	11.7	-168.59	-18.0	621.8	824.0	813.7	10.27	80.220	
3,200.0	3,194.9	3,002.8	2,921.3	6.3	12.3	-168.54	-19.0	651.3	861.3	850.7	10.61	81.214	
3,300.0	3,294.7	3,095.5	3,009.2	6.5	12.8	-168.50	-19.9	680.8	898.7	887.7	10.94	82.149	
3,400.0	3,394.5	3,188.3	3,097.2	6.7	13.4	-168.46	-20.8	710.4	936.0	924.7	11.27	83.028	
3,500.0	3,494.4	3,281.1	3,185.1	6.9	14.0	-168.43	-21.7	739.9	973.3	961.7	11.61	83.857	
3,600.0	3,594.2	3,373.9	3,273.1	7.2	14.5	-168.39	-22.6	769.4	1,010.6	998.7	11.94	84.640	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2											Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.4	-500.7	500.7				
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.4	-500.7	500.7	500.4	0.30	1,648.749	
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.4	-500.7	500.7	500.1	0.65	767.065	
300.0	300.0	300.0	300.0	0.5	0.5	30.20	1.2	-500.7	500.0	498.9	1.00	498.491	
400.0	400.0	399.8	399.8	0.7	0.7	30.66	3.9	-500.7	497.7	496.4	1.36	366.424	
500.0	499.9	499.4	499.2	0.9	0.9	31.44	8.2	-500.7	494.1	492.3	1.72	286.657	
600.0	599.7	598.5	598.2	1.1	1.1	32.54	14.2	-500.7	489.1	487.0	2.10	232.532	
700.0	699.5	697.7	697.1	1.3	1.3	20.21	21.6	-500.7	483.7	481.2	2.49	194.438	
800.0	799.3	797.1	796.2	1.5	1.5	17.75	29.1	-500.7	478.5	475.6	2.87	166.433	
900.0	899.1	896.6	895.4	1.7	1.7	18.87	36.6	-500.7	473.4	470.2	3.26	145.021	
1,000.0	998.9	996.0	994.5	1.9	1.9	20.02	44.1	-500.7	468.6	464.9	3.66	128.166	
1,100.0	1,098.7	1,095.4	1,093.7	2.1	2.1	21.20	51.6	-500.7	464.0	459.9	4.05	114.582	
1,200.0	1,198.6	1,194.9	1,192.8	2.3	2.3	22.39	59.1	-500.7	459.5	455.1	4.44	103.421	
1,300.0	1,298.4	1,294.3	1,292.0	2.5	2.5	23.61	66.6	-500.7	455.3	450.5	4.84	94.106	
1,400.0	1,398.2	1,393.7	1,391.1	2.7	2.8	24.85	74.1	-500.7	451.3	446.0	5.23	86.226	
1,500.0	1,498.0	1,493.1	1,490.3	2.9	3.0	26.12	81.6	-500.7	447.5	441.8	5.63	79.485	
1,600.0	1,597.8	1,592.6	1,589.4	3.1	3.2	27.40	89.1	-500.7	443.9	437.9	6.03	73.662	
1,700.0	1,697.6	1,692.0	1,688.6	3.3	3.4	28.70	96.6	-500.7	440.5	434.1	6.42	68.591	
1,800.0	1,797.5	1,791.4	1,787.7	3.5	3.6	30.02	104.1	-500.7	437.4	430.6	6.82	64.142	
1,900.0	1,897.3	1,890.9	1,886.9	3.7	3.8	31.36	111.6	-500.7	434.5	427.3	7.22	60.216	
2,000.0	1,997.1	1,990.3	1,986.0	3.9	4.1	32.72	119.1	-500.7	431.9	424.3	7.61	56.732	
2,100.0	2,096.9	2,089.7	2,085.2	4.1	4.3	34.09	126.6	-500.7	429.5	421.5	8.01	53.625	
2,200.0	2,196.7	2,189.2	2,184.3	4.3	4.5	35.48	134.1	-500.7	427.4	419.0	8.41	50.843	
2,300.0	2,296.5	2,288.6	2,283.5	4.5	4.7	36.88	141.6	-500.7	425.5	416.7	8.80	48.343	
2,400.0	2,396.4	2,388.0	2,382.6	4.7	4.9	38.29	149.1	-500.7	423.9	414.7	9.20	46.089	
2,500.0	2,496.2	2,487.5	2,481.8	4.9	5.1	39.71	156.6	-500.7	422.5	412.9	9.59	44.051	
2,600.0	2,596.0	2,586.9	2,580.9	5.1	5.4	41.14	164.1	-500.7	421.4	411.4	9.99	42.204	
2,700.0	2,695.8	2,686.3	2,680.1	5.3	5.6	42.58	171.6	-500.7	420.6	410.2	10.38	40.526	
2,800.0	2,795.6	2,785.8	2,779.2	5.5	5.8	44.02	179.1	-500.7	420.0	409.2	10.77	38.999	
2,900.0	2,895.5	2,885.2	2,878.4	5.7	6.0	45.46	186.6	-500.7	419.7	408.6	11.16	37.607	
2,958.5	2,953.8	2,943.3	2,936.3	5.8	6.1	46.31	191.0	-500.7	419.7	408.3	11.39	36.850	
3,000.0	2,995.3	2,984.6	2,977.5	5.9	6.2	46.91	194.1	-500.7	419.7	408.2	11.55	36.336	
3,100.0	3,095.1	3,084.1	3,076.7	6.1	6.4	48.35	201.6	-500.7	420.0	408.0	11.94	35.174	
3,200.0	3,194.9	3,183.5	3,175.8	6.3	6.7	49.80	209.1	-500.7	420.5	408.1	12.33	34.112	
3,300.0	3,294.7	3,282.9	3,275.0	6.5	6.9	51.23	216.6	-500.7	421.3	408.5	12.71	33.138	
3,400.0	3,394.5	3,382.4	3,374.1	6.7	7.1	52.66	224.1	-500.7	422.3	409.2	13.10	32.246	
3,500.0	3,494.4	3,481.8	3,473.3	6.9	7.3	54.09	231.6	-500.7	423.6	410.1	13.48	31.428	
3,600.0	3,594.2	3,581.2	3,572.4	7.2	7.5	55.50	239.1	-500.7	425.2	411.3	13.86	30.677	
3,700.0	3,694.0	3,680.6	3,671.6	7.4	7.7	56.90	246.6	-500.7	427.0	412.8	14.24	29.987	
3,800.0	3,793.8	3,780.1	3,770.7	7.6	8.0	58.29	254.1	-500.7	429.1	414.5	14.62	29.355	
3,900.0	3,893.6	3,879.5	3,869.9	7.8	8.2	59.67	261.6	-500.7	431.5	416.5	15.00	28.773	
4,000.0	3,993.5	3,978.9	3,969.0	8.0	8.4	61.03	269.1	-500.7	434.1	418.7	15.37	28.239	
4,100.0	4,093.3	4,078.4	4,068.1	8.2	8.6	62.37	276.6	-500.7	436.9	421.2	15.75	27.748	
4,200.0	4,193.1	4,177.8	4,167.3	8.4	8.8	63.69	284.1	-500.7	440.0	423.9	16.12	27.298	
4,300.0	4,292.9	4,277.2	4,266.4	8.6	9.0	65.00	291.6	-500.7	443.3	426.8	16.49	26.884	
4,400.0	4,392.7	4,376.7	4,365.6	8.8	9.3	66.29	299.1	-500.7	446.8	430.0	16.86	26.504	
4,500.0	4,492.5	4,476.1	4,464.7	9.0	9.5	67.55	306.6	-500.7	450.6	433.4	17.23	26.154	
4,600.0	4,592.4	4,575.5	4,563.9	9.2	9.7	68.80	314.1	-500.7	454.6	437.0	17.60	25.834	
4,700.0	4,692.2	4,675.0	4,663.0	9.4	9.9	70.02	321.6	-500.7	458.8	440.8	17.96	25.540	
4,800.0	4,792.0	4,774.4	4,762.2	9.6	10.1	71.22	329.1	-500.7	463.2	444.9	18.33	25.270	
4,900.0	4,891.8	4,873.8	4,861.3	9.8	10.4	72.40	336.6	-500.7	467.8	449.1	18.70	25.023	
5,000.0	4,991.6	4,973.3	4,960.5	10.0	10.6	73.55	344.1	-500.7	472.6	453.5	19.06	24.796	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2A-7H-E168 - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
5,100.0	5,091.5	5,072.7	5,059.6	10.2	10.8	74.68	351.6	-500.7	477.6	458.2	19.42	24.589			
5,200.0	5,191.3	5,172.1	5,158.8	10.4	11.0	75.79	359.1	-500.7	482.8	463.0	19.79	24.399			
5,300.0	5,291.1	5,271.6	5,257.9	10.6	11.2	76.87	366.6	-500.7	488.1	468.0	20.15	24.225			
5,400.0	5,390.9	5,371.0	5,357.1	10.8	11.4	77.93	374.1	-500.7	493.6	473.1	20.51	24.067			
5,500.0	5,490.7	5,470.4	5,456.2	11.0	11.7	78.97	381.6	-500.7	499.3	478.4	20.87	23.922			
5,600.0	5,590.5	5,569.9	5,555.4	11.2	11.9	79.98	389.1	-500.7	505.2	483.9	21.23	23.790			
5,700.0	5,690.4	5,669.3	5,654.5	11.4	12.1	80.97	396.6	-500.7	511.2	489.6	21.60	23.670			
5,800.0	5,790.2	5,768.7	5,753.7	11.6	12.3	81.93	404.1	-500.7	517.3	495.4	21.96	23.561			
5,900.0	5,890.0	5,868.2	5,852.8	11.8	12.5	82.88	411.6	-500.7	523.6	501.3	22.32	23.462			
6,000.0	5,989.8	5,967.6	5,952.0	12.0	12.7	83.80	419.1	-500.7	530.0	507.4	22.68	23.372			
6,100.0	6,089.6	6,067.0	6,051.1	12.2	13.0	84.70	426.6	-500.7	536.6	513.6	23.04	23.292			
6,200.0	6,189.5	6,166.4	6,150.3	12.5	13.2	85.57	434.1	-500.7	543.3	519.9	23.40	23.219			
6,300.0	6,289.3	6,265.9	6,249.4	12.7	13.4	86.43	441.6	-500.7	550.1	526.4	23.76	23.153			
6,400.0	6,389.1	6,365.3	6,348.6	12.9	13.6	87.26	449.1	-500.7	557.1	532.9	24.12	23.094			
6,500.0	6,488.9	6,464.7	6,447.7	13.1	13.8	88.08	456.6	-500.7	564.1	539.6	24.48	23.042			
6,600.0	6,588.7	6,564.2	6,546.9	13.3	14.0	88.87	464.1	-500.7	571.3	546.4	24.84	22.996			
6,700.0	6,688.5	6,663.6	6,646.0	13.5	14.3	89.65	471.6	-500.7	578.6	553.4	25.20	22.955			
6,800.0	6,788.4	6,763.0	6,745.2	13.7	14.5	90.40	479.1	-500.7	585.9	560.4	25.57	22.919			
6,900.0	6,888.2	6,862.5	6,844.3	13.9	14.7	91.14	486.6	-500.7	593.4	567.5	25.93	22.887			
7,000.0	6,988.0	6,961.9	6,943.5	14.1	14.9	91.85	494.1	-500.7	601.0	574.7	26.29	22.860			
7,100.0	7,087.8	7,061.3	7,042.6	14.3	15.1	92.55	501.7	-500.7	608.7	582.0	26.65	22.837			
7,200.0	7,187.6	7,161.1	7,142.0	14.5	15.3	-95.89	-96.6	-500.7	561.5	545.1	16.36	34.321			
7,300.0	7,286.6	7,260.0	7,240.0	14.7	15.5	-128.56	-84.5	-500.7	463.2	446.7	16.54	27.997			
7,400.0	7,382.0	7,354.3	7,334.6	14.8	15.6	-142.11	-41.8	-500.7	368.8	352.1	16.77	21.990			
7,500.0	7,470.8	7,442.3	7,421.3	15.0	15.9	-139.63	35.8	-500.7	277.5	260.0	17.53	15.831			
7,600.0	7,550.5	7,521.1	7,496.4	15.2	16.1	-133.10	99.1	-500.7	190.3	171.3	19.04	9.997			
7,700.0	7,618.5	7,588.6	7,568.6	15.6	16.5	-118.28	155.2	-500.7	113.1	90.8	22.27	5.078			
7,800.0	7,672.9	7,641.9	7,612.4	16.0	17.0	-88.92	206.4	-500.7	72.0	43.9	28.15	2.558			
7,802.2	7,673.9	7,603.7	7,571.8	16.1	17.1	-88.11	207.5	-500.7	72.0	43.8	28.19	2.553 CC, ES, SF			
7,900.0	7,711.9	7,680.0	7,644.2	16.7	17.7	-54.23	253.6	-500.7	107.1	81.4	25.63	4.177			
8,000.0	7,734.4	7,700.0	7,614.8	17.5	18.3	-33.58	294.0	-500.7	171.4	146.6	24.79	6.913			
8,100.0	7,740.0	7,650.0	7,581.9	18.4	19.4	-23.29	331.6	-500.7	237.7	212.4	25.32	9.391			
8,200.0	7,740.0	7,600.0	7,545.9	19.5	20.5	-19.32	366.3	-500.7	308.1	282.3	25.81	11.938			
8,300.0	7,740.0	7,550.0	7,507.0	20.6	21.6	-16.28	397.7	-500.7	384.3	358.2	26.09	14.728			
8,400.0	7,740.0	7,523.0	7,484.9	21.8	22.8	-14.94	413.2	-500.7	464.7	437.9	26.88	17.291			
8,500.0	7,740.0	7,500.0	7,465.5	23.1	24.1	-13.92	425.5	-500.7	548.6	521.1	27.49	19.957			
8,600.0	7,740.0	7,470.2	7,439.7	24.5	25.5	-12.77	440.4	-500.7	634.9	607.1	27.81	22.830			
8,700.0	7,740.0	7,450.0	7,421.8	25.9	26.9	-12.07	449.7	-500.7	723.3	695.1	28.20	25.646			
8,800.0	7,740.0	7,430.7	7,404.3	27.3	28.3	-11.46	458.0	-500.7	813.3	784.8	28.52	28.513			
8,900.0	7,740.0	7,400.0	7,376.1	28.8	29.8	-10.59	469.9	-500.7	904.9	876.3	28.66	31.578			
9,000.0	7,740.0	7,400.0	7,376.1	30.3	31.3	-10.59	469.9	-500.7	997.0	967.9	29.09	34.271			

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-89.50	0.4	-42.5	42.5				
100.0	100.0	100.0	100.0	0.2	0.2	-89.50	0.4	-42.5	42.5	42.2	0.30	140.089	
200.0	200.0	200.0	200.0	0.3	0.3	-89.50	0.4	-42.5	42.5	41.9	0.65	65.175	
300.0	300.0	300.0	300.0	0.5	0.5	31.11	0.4	-42.5	41.8	40.8	1.00	41.708	
400.0	400.0	399.5	399.5	0.7	0.7	33.97	1.0	-43.1	40.2	38.8	1.35	29.709	
500.0	499.9	498.9	498.8	0.9	0.9	40.35	3.0	-44.8	38.6	36.9	1.71	22.602	
595.5	595.1	593.6	593.5	1.1	1.0	49.95	6.1	-47.4	37.9	35.8	2.06	18.403 CC	
600.0	599.7	598.1	598.0	1.1	1.0	50.49	6.3	-47.5	37.9	35.8	2.08	18.254 ES	
700.0	699.5	697.2	696.9	1.3	1.2	47.98	10.9	-51.4	39.2	36.8	2.44	16.043	
800.0	799.3	796.9	796.4	1.5	1.4	53.25	16.2	-55.9	42.1	39.2	2.82	14.930	
900.0	899.1	896.7	895.9	1.7	1.6	60.77	21.6	-60.3	45.7	42.5	3.19	14.323	
1,000.0	998.9	996.5	995.4	1.9	1.8	67.09	26.9	-64.8	50.1	46.5	3.57	14.016	
1,100.0	1,098.7	1,096.2	1,095.0	2.1	2.0	72.35	32.2	-69.3	54.9	51.0	3.96	13.885	
1,200.0	1,198.6	1,196.0	1,194.5	2.3	2.3	76.73	37.6	-73.8	60.2	55.8	4.34	13.857	
1,300.0	1,298.4	1,295.4	1,293.6	2.5	2.5	81.02	43.4	-77.6	66.0	61.3	4.73	13.961	
1,400.0	1,398.2	1,394.5	1,392.4	2.7	2.7	85.81	50.4	-80.2	72.9	67.7	5.11	14.260	
1,500.0	1,498.0	1,493.6	1,491.2	2.9	2.9	90.72	58.5	-81.7	81.0	75.5	5.49	14.741	
1,600.0	1,597.8	1,593.0	1,590.3	3.1	3.1	94.87	66.8	-83.0	89.7	83.8	5.88	15.268	
1,700.0	1,697.6	1,692.4	1,689.3	3.3	3.3	98.28	75.1	-84.3	98.8	92.6	6.26	15.793	
1,800.0	1,797.5	1,791.9	1,788.4	3.5	3.5	101.10	83.4	-85.6	108.3	101.6	6.64	16.302	
1,900.0	1,897.3	1,891.3	1,887.5	3.7	3.8	103.46	91.7	-86.9	117.9	110.9	7.02	16.788	
2,000.0	1,997.1	1,990.7	1,986.5	3.9	4.0	105.47	100.0	-88.1	127.7	120.3	7.41	17.246	
2,100.0	2,096.9	2,090.1	2,085.6	4.1	4.2	107.18	108.2	-89.4	137.7	129.9	7.79	17.676	
2,200.0	2,196.7	2,189.6	2,184.7	4.3	4.4	108.67	116.5	-90.7	147.7	139.5	8.17	18.079	
2,300.0	2,296.5	2,289.0	2,283.8	4.5	4.6	109.97	124.8	-92.0	157.8	149.3	8.55	18.456	
2,400.0	2,396.4	2,388.4	2,382.8	4.7	4.9	111.11	133.1	-93.3	168.1	159.1	8.94	18.808	
2,500.0	2,496.2	2,487.8	2,481.9	4.9	5.1	112.11	141.4	-94.6	178.3	169.0	9.32	19.137	
2,600.0	2,596.0	2,587.3	2,581.0	5.1	5.3	113.01	149.7	-95.8	188.6	178.9	9.70	19.445	
2,700.0	2,695.8	2,686.7	2,680.0	5.3	5.5	113.82	158.0	-97.1	199.0	188.9	10.08	19.733	
2,800.0	2,795.6	2,786.1	2,779.1	5.5	5.8	114.54	166.3	-98.4	209.4	198.9	10.47	20.004	
2,900.0	2,895.5	2,885.6	2,878.2	5.7	6.0	115.20	174.6	-99.7	219.8	208.9	10.85	20.258	
3,000.0	2,995.3	2,985.0	2,977.3	5.9	6.2	115.80	182.8	-101.0	230.2	219.0	11.23	20.497	
3,100.0	3,095.1	3,084.4	3,076.3	6.1	6.4	116.34	191.1	-102.3	240.7	229.1	11.62	20.722	
3,200.0	3,194.9	3,183.8	3,175.4	6.3	6.7	116.84	199.4	-103.5	251.2	239.2	12.00	20.934	
3,300.0	3,294.7	3,283.3	3,274.5	6.5	6.9	117.30	207.7	-104.8	261.7	249.3	12.38	21.134	
3,400.0	3,394.5	3,382.7	3,373.5	6.7	7.1	117.73	216.0	-106.1	272.2	259.5	12.77	21.323	
3,500.0	3,494.4	3,482.1	3,472.6	6.9	7.3	118.12	224.3	-107.4	282.8	269.6	13.15	21.503	
3,600.0	3,594.2	3,581.5	3,571.7	7.2	7.6	118.49	232.6	-108.7	293.3	279.8	13.53	21.672	
3,700.0	3,694.0	3,681.0	3,670.7	7.4	7.8	118.83	240.9	-110.0	303.9	289.9	13.92	21.834	
3,800.0	3,793.8	3,780.4	3,769.8	7.6	8.0	119.14	249.2	-111.2	314.4	300.1	14.30	21.987	
3,900.0	3,893.6	3,879.8	3,868.9	7.8	8.2	119.44	257.5	-112.5	325.0	310.3	14.68	22.133	
4,000.0	3,993.5	3,979.2	3,968.0	8.0	8.5	119.72	265.7	-113.8	335.6	320.5	15.07	22.271	
4,100.0	4,093.3	4,078.7	4,067.0	8.2	8.7	119.98	274.0	-115.1	346.2	330.7	15.45	22.404	
4,200.0	4,193.1	4,178.1	4,166.1	8.4	8.9	120.22	282.3	-116.4	356.8	340.9	15.84	22.530	
4,300.0	4,292.9	4,277.5	4,265.2	8.6	9.1	120.45	290.6	-117.7	367.4	351.2	16.22	22.650	
4,400.0	4,392.7	4,376.9	4,364.2	8.8	9.4	120.67	298.9	-118.9	378.0	361.4	16.60	22.766	
4,500.0	4,492.5	4,476.4	4,463.3	9.0	9.6	120.87	307.2	-120.2	388.6	371.6	16.99	22.876	
4,600.0	4,592.4	4,575.8	4,562.4	9.2	9.8	121.07	315.5	-121.5	399.2	381.8	17.37	22.982	
4,700.0	4,692.2	4,675.2	4,661.5	9.4	10.0	121.25	323.8	-122.8	409.8	392.1	17.76	23.083	
4,800.0	4,792.0	4,774.6	4,760.5	9.6	10.3	121.43	332.1	-124.1	420.5	402.3	18.14	23.180	
4,900.0	4,891.8	4,874.1	4,859.6	9.8	10.5	121.60	340.3	-125.3	431.1	412.6	18.52	23.274	
5,000.0	4,991.6	4,973.5	4,958.7	10.0	10.7	121.76	348.6	-126.6	441.7	422.8	18.91	23.363	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,091.5	5,072.9	5,057.7	10.2	10.9	121.91	356.9	-127.9	452.4	433.1	19.29	23.450	
5,200.0	5,191.3	5,172.3	5,156.8	10.4	11.2	122.05	365.2	-129.2	463.0	443.3	19.68	23.533	
5,300.0	5,291.1	5,271.8	5,255.9	10.6	11.4	122.19	373.5	-130.5	473.7	453.6	20.06	23.613	
5,400.0	5,390.9	5,371.2	5,355.0	10.8	11.6	122.32	381.8	-131.8	484.3	463.9	20.44	23.690	
5,500.0	5,490.7	5,470.6	5,454.0	11.0	11.9	122.45	390.1	-133.0	495.0	474.1	20.83	23.764	
5,600.0	5,590.5	5,570.0	5,553.1	11.2	12.1	122.57	398.4	-134.3	505.6	484.4	21.21	23.836	
5,700.0	5,690.4	5,669.5	5,652.2	11.4	12.3	122.68	406.7	-135.6	516.3	494.7	21.60	23.905	
5,800.0	5,790.2	5,768.9	5,751.2	11.6	12.5	122.80	414.9	-136.9	526.9	504.9	21.98	23.972	
5,900.0	5,890.0	5,868.3	5,850.3	11.8	12.8	122.90	423.2	-138.2	537.6	515.2	22.36	24.037	
6,000.0	5,989.8	5,967.7	5,949.4	12.0	13.0	123.00	431.5	-139.5	548.2	525.5	22.75	24.099	
6,100.0	6,089.6	6,067.2	6,048.5	12.2	13.2	123.10	439.8	-140.7	558.9	535.8	23.13	24.160	
6,200.0	6,189.5	6,166.6	6,147.5	12.5	13.4	123.20	448.1	-142.0	569.6	546.0	23.52	24.219	
6,300.0	6,289.3	6,266.0	6,246.6	12.7	13.7	123.29	456.4	-143.3	580.2	556.3	23.90	24.275	
6,400.0	6,389.1	6,365.4	6,345.7	12.9	13.9	123.38	464.7	-144.6	590.9	566.6	24.29	24.330	
6,500.0	6,488.9	6,464.9	6,444.7	13.1	14.1	123.46	473.0	-145.9	601.6	576.9	24.67	24.384	
6,600.0	6,588.7	6,564.3	6,543.8	13.3	14.3	123.55	481.3	-147.2	612.2	587.2	25.05	24.436	
6,700.0	6,688.5	6,663.7	6,642.9	13.5	14.6	123.62	489.6	-148.4	622.9	597.4	25.44	24.486	
6,800.0	6,788.4	6,763.1	6,742.0	13.7	14.8	123.70	497.8	-149.7	633.6	607.7	25.82	24.535	
6,900.0	6,888.2	6,862.6	6,841.0	13.9	15.0	123.78	506.1	-151.0	644.2	618.0	26.21	24.582	
7,000.0	6,988.0	6,961.8	6,940.0	14.1	15.2	123.85	514.3	-152.2	654.7	628.7	26.60	24.629	
7,100.0	7,087.8	7,061.1	7,039.0	14.3	15.4	123.92	522.5	-153.4	665.1	639.1	27.00	24.676	
7,200.0	7,187.6	7,160.3	7,137.5	14.5	15.6	124.00	530.7	-154.6	675.5	649.5	27.40	24.723	
7,300.0	7,287.4	7,259.1	7,235.0	14.7	15.8	124.07	538.9	-155.8	685.9	659.9	27.80	24.770	
7,400.0	7,387.2	7,357.8	7,332.5	14.9	16.0	124.15	547.1	-156.9	696.3	670.3	28.20	24.817	
7,500.0	7,477.0	7,446.5	7,420.0	15.1	16.2	124.22	555.3	-158.0	706.7	680.7	28.60	24.864	
7,513.8	7,482.4	7,450.0	7,422.5	15.0	16.1	124.25	558.5	-157.9	709.9	683.9	28.75	24.880	
7,600.0	7,587.0	7,555.0	7,527.5	15.2	16.4	124.30	566.7	-159.0	720.3	694.3	29.20	24.927	
7,700.0	7,686.8	7,653.0	7,624.0	15.4	16.6	124.37	574.9	-160.1	730.7	704.7	29.60	24.974	
7,800.0	7,786.6	7,751.0	7,720.0	15.6	16.8	124.44	583.1	-161.2	741.1	715.1	30.00	25.021	
7,900.0	7,886.4	7,849.0	7,816.0	15.8	17.0	124.51	591.3	-162.3	751.5	725.5	30.40	25.068	
8,000.0	7,986.2	7,947.0	7,912.0	16.0	17.2	124.58	599.5	-163.4	761.9	735.9	30.80	25.115	
8,100.0	8,086.0	8,045.0	8,008.0	16.2	17.4	124.65	607.7	-164.5	772.3	746.3	31.20	25.162	
8,200.0	8,185.8	8,143.0	8,104.0	16.4	17.6	124.72	615.9	-165.6	782.7	756.7	31.60	25.209	
8,300.0	8,285.6	8,241.0	8,199.0	16.6	17.8	124.79	624.1	-166.7	793.1	767.1	32.00	25.256	
8,400.0	8,385.4	8,339.0	8,294.0	16.8	18.0	124.86	632.3	-167.8	803.5	777.5	32.40	25.303	
8,500.0	8,485.2	8,437.0	8,389.0	17.0	18.2	124.93	640.5	-168.9	813.9	787.9	32.80	25.350	
8,600.0	8,585.0	8,535.0	8,485.0	17.2	18.4	125.00	648.7	-169.9	824.3	798.3	33.20	25.397	
8,700.0	8,684.8	8,633.0	8,581.0	17.4	18.6	125.07	656.9	-171.0	834.7	808.7	33.60	25.444	
8,800.0	8,784.6	8,731.0	8,677.0	17.6	18.8	125.14	665.1	-172.1	845.1	819.1	34.00	25.491	
8,900.0	8,884.4	8,829.0	8,773.0	17.8	19.0	125.21	673.3	-173.2	855.5	829.5	34.40	25.538	
9,000.0	8,984.2	8,927.0	8,869.0	18.0	19.2	125.28	681.5	-174.3	865.9	839.9	34.80	25.585	
9,100.0	9,084.0	9,025.0	8,965.0	18.2	19.4	125.35	689.7	-175.4	876.3	850.3	35.20	25.632	
9,200.0	9,183.8	9,123.0	9,062.0	18.4	19.6	125.42	697.9	-176.5	886.7	860.7	35.60	25.679	
9,300.0	9,283.6	9,221.0	9,158.0	18.6	19.8	125.49	706.1	-177.6	897.1	871.1	36.00	25.726	
9,400.0	9,383.4	9,319.0	9,254.0	18.8	20.0	125.56	714.3	-178.7	907.5	881.5	36.40	25.773	
9,500.0	9,483.2	9,417.0	9,351.0	19.0	20.2	125.63	722.5	-179.8	917.9	891.9	36.80	25.820	
9,600.0	9,583.0	9,515.0	9,449.0	19.2	20.4	125.70	730.7	-180.9	928.3	902.3	37.20	25.867	
9,700.0	9,682.8	9,613.0	9,545.0	19.4	20.6	125.77	738.9	-182.0	938.7	912.7	37.60	25.914	
9,800.0	9,782.6	9,711.0	9,642.0	19.6	20.8	125.84	747.1	-183.1	949.1	923.1	38.00	25.961	
9,900.0	9,882.4	9,809.0	9,738.0	19.8	21.0	125.91	755.3	-184.2	959.5	933.5	38.40	26.008	
10,000.0	9,982.2	9,907.0	9,834.0	20.0	21.2	125.98	763.5	-185.3	969.9	943.9	38.80	26.055	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.35	0.4	-32.7	32.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.35	0.4	-32.7	32.7	32.4	0.30	107.835		
200.0	200.0	200.0	200.0	0.3	0.3	-89.35	0.4	-32.7	32.7	32.1	0.65	50.169		
300.0	300.0	300.0	300.0	0.5	0.5	31.45	0.4	-32.7	32.0	31.0	1.00	31.934		
400.0	400.0	400.0	400.0	0.7	0.7	34.09	0.4	-32.7	29.8	28.4	1.35	22.028		
500.0	499.9	500.0	500.0	0.9	0.9	41.29	1.2	-32.4	26.1	24.4	1.71	15.252		
600.0	599.7	599.7	599.6	1.1	1.0	58.76	3.5	-31.2	21.8	19.7	2.09	10.464		
682.5	681.9	681.6	681.5	1.2	1.2	70.38	6.6	-29.7	20.3	17.9	2.41	8.444	CC, ES	
700.0	699.5	699.1	698.9	1.3	1.2	72.86	7.4	-29.3	20.4	17.9	2.47	8.244	SF	
800.0	799.3	798.2	797.9	1.5	1.4	96.11	12.8	-26.7	24.0	21.2	2.84	8.464		
900.0	899.1	897.0	896.3	1.7	1.6	114.07	19.7	-23.3	32.8	29.7	3.17	10.358		
1,000.0	998.9	996.1	995.1	1.9	1.8	124.03	27.5	-19.6	44.4	40.9	3.51	12.639		
1,100.0	1,098.7	1,095.2	1,093.8	2.1	2.0	129.80	35.2	-15.8	56.7	52.8	3.86	14.693		
1,200.0	1,198.6	1,194.3	1,192.5	2.3	2.3	133.49	43.0	-12.0	69.4	65.2	4.21	16.478		
1,300.0	1,298.4	1,293.4	1,291.3	2.5	2.5	136.03	50.7	-8.3	82.2	77.7	4.56	18.021		
1,400.0	1,398.2	1,392.5	1,390.0	2.7	2.7	137.89	58.4	-4.5	95.2	90.3	4.92	19.358		
1,500.0	1,498.0	1,491.6	1,488.8	2.9	2.9	139.29	66.2	-0.7	108.3	103.0	5.28	20.524		
1,600.0	1,597.8	1,590.7	1,587.5	3.1	3.1	140.40	73.9	3.0	121.4	115.8	5.63	21.547		
1,700.0	1,697.6	1,689.9	1,686.2	3.3	3.4	141.29	81.7	6.8	134.6	128.6	5.99	22.452		
1,800.0	1,797.5	1,789.0	1,785.0	3.5	3.6	142.02	89.4	10.6	147.7	141.4	6.35	23.256		
1,900.0	1,897.3	1,888.1	1,883.7	3.7	3.8	142.63	97.1	14.3	160.9	154.2	6.71	23.976		
2,000.0	1,997.1	1,987.2	1,982.5	3.9	4.0	143.15	104.9	18.1	174.1	167.1	7.07	24.623		
2,100.0	2,096.9	2,086.3	2,081.2	4.1	4.3	143.59	112.6	21.9	187.4	179.9	7.43	25.209		
2,200.0	2,196.7	2,185.4	2,179.9	4.3	4.5	143.98	120.3	25.6	200.6	192.8	7.79	25.741		
2,300.0	2,296.5	2,284.5	2,278.7	4.5	4.7	144.32	128.1	29.4	213.8	205.7	8.15	26.225		
2,400.0	2,396.4	2,383.6	2,377.4	4.7	4.9	144.61	135.8	33.2	227.1	218.6	8.51	26.670		
2,500.0	2,496.2	2,482.8	2,476.1	4.9	5.2	144.88	143.6	36.9	240.3	231.4	8.88	27.078		
2,600.0	2,596.0	2,581.9	2,574.9	5.1	5.4	145.12	151.3	40.7	253.6	244.3	9.24	27.454		
2,700.0	2,695.8	2,681.0	2,673.6	5.3	5.6	145.33	159.0	44.5	266.8	257.2	9.60	27.802		
2,800.0	2,795.6	2,780.1	2,772.4	5.5	5.9	145.53	166.8	48.2	280.1	270.1	9.96	28.125		
2,900.0	2,895.5	2,879.2	2,871.1	5.7	6.1	145.70	174.5	52.0	293.4	283.0	10.32	28.425		
3,000.0	2,995.3	2,978.3	2,969.8	5.9	6.3	145.87	182.3	55.8	306.6	295.9	10.68	28.705		
3,100.0	3,095.1	3,077.4	3,068.6	6.1	6.5	146.01	190.0	59.5	319.9	308.9	11.04	28.967		
3,200.0	3,194.9	3,176.5	3,167.3	6.3	6.8	146.15	197.7	63.3	333.2	321.8	11.41	29.212		
3,300.0	3,294.7	3,275.7	3,266.0	6.5	7.0	146.28	205.5	67.1	346.4	334.7	11.77	29.442		
3,400.0	3,394.5	3,374.8	3,364.8	6.7	7.2	146.39	213.2	70.8	359.7	347.6	12.13	29.658		
3,500.0	3,494.4	3,473.9	3,463.5	6.9	7.4	146.50	220.9	74.6	373.0	360.5	12.49	29.861		
3,600.0	3,594.2	3,573.0	3,562.3	7.2	7.7	146.60	228.7	78.4	386.3	373.4	12.85	30.054		
3,700.0	3,694.0	3,672.1	3,661.0	7.4	7.9	146.70	236.4	82.1	399.6	386.3	13.21	30.235		
3,800.0	3,793.8	3,771.2	3,759.7	7.6	8.1	146.78	244.2	85.9	412.8	399.3	13.58	30.407		
3,900.0	3,893.6	3,870.3	3,858.5	7.8	8.4	146.87	251.9	89.7	426.1	412.2	13.94	30.570		
4,000.0	3,993.5	3,969.4	3,957.2	8.0	8.6	146.94	259.6	93.4	439.4	425.1	14.30	30.725		
4,100.0	4,093.3	4,068.6	4,055.9	8.2	8.8	147.02	267.4	97.2	452.7	438.0	14.66	30.872		
4,200.0	4,193.1	4,167.7	4,154.7	8.4	9.0	147.09	275.1	101.0	466.0	450.9	15.03	31.012		
4,300.0	4,292.9	4,266.8	4,253.4	8.6	9.3	147.15	282.9	104.7	479.2	463.9	15.39	31.146		
4,400.0	4,392.7	4,365.9	4,352.2	8.8	9.5	147.21	290.6	108.5	492.5	476.8	15.75	31.273		
4,500.0	4,492.5	4,465.0	4,450.9	9.0	9.7	147.27	298.3	112.3	505.8	489.7	16.11	31.395		
4,600.0	4,592.4	4,564.1	4,549.6	9.2	10.0	147.33	306.1	116.0	519.1	502.6	16.47	31.511		
4,700.0	4,692.2	4,663.2	4,648.4	9.4	10.2	147.38	313.8	119.8	532.4	515.6	16.84	31.622		
4,800.0	4,792.0	4,762.3	4,747.1	9.6	10.4	147.43	321.6	123.6	545.7	528.5	17.20	31.729		
4,900.0	4,891.8	4,861.5	4,845.9	9.8	10.6	147.48	329.3	127.3	559.0	541.4	17.56	31.831		
5,000.0	4,991.6	4,960.6	4,944.6	10.0	10.9	147.52	337.0	131.1	572.2	554.3	17.92	31.929		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,091.5	5,059.7	5,043.3	10.2	11.1	147.57	344.8	134.9	585.5	567.2	18.28	32.023	
5,200.0	5,191.3	5,158.8	5,142.1	10.4	11.3	147.61	352.5	138.6	598.8	580.2	18.65	32.113	
5,300.0	5,291.1	5,257.9	5,240.8	10.6	11.6	147.65	360.2	142.4	612.1	593.1	19.01	32.200	
5,400.0	5,390.9	5,357.0	5,339.5	10.8	11.8	147.68	368.0	146.1	625.4	606.0	19.37	32.284	
5,500.0	5,490.7	5,456.1	5,438.3	11.0	12.0	147.72	375.7	149.9	638.7	619.0	19.73	32.365	
5,600.0	5,590.5	5,555.2	5,537.0	11.2	12.3	147.76	383.5	153.7	652.0	631.9	20.10	32.442	
5,700.0	5,690.4	5,654.3	5,635.8	11.4	12.5	147.79	391.2	157.4	665.3	644.8	20.46	32.517	
5,800.0	5,790.2	5,753.5	5,734.5	11.6	12.7	147.82	398.9	161.2	678.6	657.7	20.82	32.590	
5,900.0	5,890.0	5,852.6	5,833.2	11.8	12.9	147.85	406.7	165.0	691.8	670.7	21.18	32.660	
6,000.0	5,989.8	5,951.7	5,932.0	12.0	13.2	147.88	414.4	168.7	705.1	683.6	21.55	32.727	
6,100.0	6,089.6	6,050.8	6,030.7	12.2	13.4	147.91	422.2	172.5	718.4	696.5	21.91	32.793	
6,200.0	6,189.5	6,149.9	6,129.4	12.5	13.6	147.94	429.9	176.3	731.7	709.4	22.27	32.856	
6,300.0	6,289.3	6,249.0	6,228.2	12.7	13.9	147.96	437.6	180.0	745.0	722.4	22.63	32.917	
6,400.0	6,389.1	6,348.1	6,326.9	12.9	14.1	147.99	445.4	183.8	758.3	735.3	23.00	32.976	
6,500.0	6,488.9	6,447.2	6,425.7	13.1	14.3	148.02	453.1	187.6	771.6	748.2	23.36	33.033	
6,600.0	6,588.7	6,546.4	6,524.4	13.3	14.5	148.04	460.9	191.3	784.9	761.2	23.72	33.089	
6,700.0	6,688.5	6,645.5	6,623.1	13.5	14.8	148.06	468.6	195.1	798.2	774.1	24.08	33.143	
6,800.0	6,788.4	6,744.6	6,721.9	13.7	15.0	148.08	476.3	198.9	811.5	787.0	24.44	33.195	
6,900.0	6,888.2	6,843.7	6,820.6	13.9	15.2	148.11	484.1	202.6	824.7	799.9	24.81	33.246	
7,000.0	6,988.0	6,942.8	6,919.4	14.1	15.5	148.13	491.8	206.4	838.0	812.9	25.17	33.295	
7,100.0	7,087.8	7,041.9	7,018.1	14.3	15.7	148.15	499.5	210.2	851.3	825.8	25.53	33.343	
7,200.0	7,187.6	8,124.9	7,740.0	14.5	15.1	151.32	-96.6	237.7	843.8	820.7	23.03	36.632	
7,300.0	7,286.6	8,112.8	7,740.0	14.7	15.0	113.18	-84.5	237.7	787.3	763.2	24.08	32.701	
7,400.0	7,382.0	8,067.4	7,739.5	14.8	14.9	107.80	-39.1	237.7	741.4	716.4	24.98	29.676	
7,500.0	7,470.8	7,983.5	7,729.8	15.0	14.7	102.37	44.2	237.3	705.6	679.8	25.85	27.301	
7,600.0	7,550.5	7,916.2	7,713.3	15.2	14.7	98.35	109.4	236.7	680.6	653.9	26.72	25.473	
7,700.0	7,618.5	7,855.6	7,692.0	15.6	14.7	94.33	166.1	235.9	666.8	639.3	27.50	24.248	
7,781.0	7,663.7	7,809.0	7,671.7	15.9	14.8	90.79	208.0	235.1	663.5	635.5	28.08	23.635	
7,800.0	7,672.9	7,798.3	7,666.5	16.0	14.8	89.93	217.3	234.9	663.7	635.5	28.18	23.552	
7,900.0	7,711.9	7,743.0	7,637.1	16.7	14.9	85.13	264.2	233.8	669.8	641.1	28.79	23.266	
8,000.0	7,734.4	7,688.8	7,604.2	17.5	15.1	80.11	307.1	232.5	683.3	653.9	29.37	23.266	
8,100.0	7,740.0	7,635.7	7,568.0	18.4	15.2	75.47	345.9	231.1	701.9	671.9	29.94	23.440	
8,200.0	7,740.0	7,588.9	7,533.3	19.5	15.4	72.67	377.3	229.8	727.5	697.1	30.44	23.903	
8,300.0	7,740.0	7,550.0	7,502.6	20.6	15.5	70.25	401.1	228.6	761.9	731.1	30.80	24.735	
8,400.0	7,740.0	7,516.8	7,475.1	21.8	15.6	68.14	419.7	227.6	804.6	773.6	31.05	25.917	
8,500.0	7,740.0	7,500.0	7,460.8	23.1	15.6	67.06	428.6	227.1	855.2	823.9	31.24	27.378	
8,600.0	7,740.0	7,465.1	7,430.3	24.5	15.7	64.82	445.5	225.9	912.2	881.0	31.29	29.152	
8,700.0	7,740.0	7,450.0	7,416.9	25.9	15.8	63.85	452.3	225.4	975.4	944.0	31.37	31.096	

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.06	0.4	-22.7	22.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.06	0.4	-22.7	22.7	22.4	0.30	74.660		
200.0	200.0	200.0	200.0	0.3	0.3	-89.06	0.4	-22.7	22.7	22.0	0.65	34.735		
300.0	300.0	300.0	300.0	0.5	0.5	32.12	0.4	-22.7	21.9	20.9	1.00	21.884		
400.0	400.0	400.0	400.0	0.7	0.7	36.17	0.4	-22.7	19.8	18.4	1.35	14.606		
500.0	499.9	499.9	499.9	0.9	0.8	45.20	0.4	-22.7	16.4	14.7	1.71	9.618		
600.0	599.7	599.7	599.7	1.1	1.0	68.69	1.0	-22.1	12.8	10.8	2.09	6.153		
650.5	650.0	649.9	649.9	1.2	1.1	82.37	1.9	-21.4	12.2	9.9	2.28	5.331 CC, ES		
700.0	699.5	699.2	699.2	1.3	1.2	95.62	3.0	-20.5	12.9	10.4	2.46	5.229 SF		
800.0	799.3	798.5	798.4	1.5	1.4	122.42	6.4	-17.7	18.5	15.7	2.79	6.612		
900.0	899.1	897.5	897.1	1.7	1.6	136.98	11.0	-13.9	28.3	25.2	3.12	9.068		
1,000.0	998.9	996.0	995.4	1.9	1.8	143.74	16.9	-9.0	40.8	37.3	3.46	11.774		
1,100.0	1,098.7	1,094.1	1,093.0	2.1	2.0	147.17	24.1	-3.1	55.2	51.4	3.80	14.511		
1,200.0	1,198.6	1,191.7	1,190.0	2.3	2.2	149.00	32.6	3.8	71.4	67.3	4.15	17.223		
1,300.0	1,298.4	1,290.1	1,287.6	2.5	2.5	150.08	41.8	11.5	88.7	84.2	4.50	19.718		
1,400.0	1,398.2	1,388.5	1,385.4	2.7	2.7	150.81	51.1	19.1	105.9	101.1	4.85	21.849		
1,500.0	1,498.0	1,487.0	1,483.1	2.9	3.0	151.33	60.4	26.8	123.2	118.0	5.20	23.692		
1,600.0	1,597.8	1,585.5	1,580.9	3.1	3.2	151.72	69.7	34.4	140.5	135.0	5.56	25.299		
1,700.0	1,697.6	1,684.0	1,678.6	3.3	3.5	152.03	79.0	42.1	157.8	151.9	5.91	26.712		
1,800.0	1,797.5	1,782.5	1,776.4	3.5	3.7	152.28	88.2	49.7	175.2	168.9	6.26	27.966		
1,900.0	1,897.3	1,881.0	1,874.2	3.7	4.0	152.48	97.5	57.3	192.5	185.9	6.62	29.084		
2,000.0	1,997.1	1,979.5	1,971.9	3.9	4.3	152.65	106.8	65.0	209.8	202.8	6.97	30.088		
2,100.0	2,096.9	2,078.0	2,069.7	4.1	4.5	152.79	116.1	72.6	227.1	219.8	7.33	30.994		
2,200.0	2,196.7	2,176.4	2,167.4	4.3	4.8	152.92	125.4	80.3	244.4	236.7	7.68	31.816		
2,300.0	2,296.5	2,274.9	2,265.2	4.5	5.1	153.02	134.6	87.9	261.7	253.7	8.04	32.565		
2,400.0	2,396.4	2,373.4	2,362.9	4.7	5.3	153.12	143.9	95.6	279.1	270.7	8.39	33.250		
2,500.0	2,496.2	2,471.9	2,460.7	4.9	5.6	153.20	153.2	103.2	296.4	287.6	8.75	33.880		
2,600.0	2,596.0	2,570.4	2,558.4	5.1	5.9	153.27	162.5	110.9	313.7	304.6	9.10	34.459		
2,700.0	2,695.8	2,668.9	2,656.2	5.3	6.1	153.34	171.8	118.5	331.0	321.6	9.46	34.996		
2,800.0	2,795.6	2,767.4	2,753.9	5.5	6.4	153.40	181.1	126.1	348.3	338.5	9.81	35.493		
2,900.0	2,895.5	2,865.9	2,851.7	5.7	6.7	153.45	190.3	133.8	365.7	355.5	10.17	35.955		
3,000.0	2,995.3	2,964.4	2,949.4	5.9	6.9	153.50	199.6	141.4	383.0	372.5	10.53	36.385		
3,100.0	3,095.1	3,062.8	3,047.2	6.1	7.2	153.54	208.9	149.1	400.3	389.4	10.88	36.788		
3,200.0	3,194.9	3,161.3	3,144.9	6.3	7.5	153.58	218.2	156.7	417.6	406.4	11.24	37.164		
3,300.0	3,294.7	3,259.8	3,242.7	6.5	7.7	153.62	227.5	164.4	434.9	423.4	11.59	37.518		
3,400.0	3,394.5	3,358.3	3,340.4	6.7	8.0	153.66	236.7	172.0	452.3	440.3	11.95	37.850		
3,500.0	3,494.4	3,456.8	3,438.2	6.9	8.3	153.69	246.0	179.7	469.6	457.3	12.30	38.163		
3,600.0	3,594.2	3,555.3	3,535.9	7.2	8.5	153.72	255.3	187.3	486.9	474.3	12.66	38.459		
3,700.0	3,694.0	3,653.8	3,633.7	7.4	8.8	153.75	264.6	195.0	504.2	491.2	13.02	38.738		
3,800.0	3,793.8	3,752.3	3,731.4	7.6	9.1	153.77	273.9	202.6	521.6	508.2	13.37	39.002		
3,900.0	3,893.6	3,850.7	3,829.2	7.8	9.3	153.80	283.2	210.2	538.9	525.2	13.73	39.253		
4,000.0	3,993.5	3,949.2	3,926.9	8.0	9.6	153.82	292.4	217.9	556.2	542.1	14.08	39.490		
4,100.0	4,093.3	4,047.7	4,024.7	8.2	9.9	153.84	301.7	225.5	573.5	559.1	14.44	39.716		
4,200.0	4,193.1	4,146.2	4,122.4	8.4	10.2	153.86	311.0	233.2	590.8	576.1	14.80	39.931		
4,300.0	4,292.9	4,244.7	4,220.2	8.6	10.4	153.88	320.3	240.8	608.2	593.0	15.15	40.136		
4,400.0	4,392.7	4,343.2	4,317.9	8.8	10.7	153.90	329.6	248.5	625.5	610.0	15.51	40.332		
4,500.0	4,492.5	4,441.7	4,415.7	9.0	11.0	153.92	338.8	256.1	642.8	627.0	15.86	40.518		
4,600.0	4,592.4	4,540.2	4,513.4	9.2	11.2	153.93	348.1	263.8	660.1	643.9	16.22	40.697		
4,700.0	4,692.2	4,638.6	4,611.2	9.4	11.5	153.95	357.4	271.4	677.5	660.9	16.58	40.868		
4,800.0	4,792.0	4,737.1	4,708.9	9.6	11.8	153.96	366.7	279.0	694.8	677.9	16.93	41.031		
4,900.0	4,891.8	4,835.6	4,806.7	9.8	12.1	153.97	376.0	286.7	712.1	694.8	17.29	41.188		
5,000.0	4,991.6	4,934.1	4,904.4	10.0	12.3	153.99	385.2	294.3	729.4	711.8	17.65	41.338		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2D-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,091.5	5,032.6	5,002.2	10.2	12.6	154.00	394.5	302.0	746.8	728.8	18.00	41.483		
5,200.0	5,191.3	5,131.1	5,099.9	10.4	12.9	154.01	403.8	309.6	764.1	745.7	18.36	41.622		
5,300.0	5,291.1	5,229.6	5,197.7	10.6	13.1	154.02	413.1	317.3	781.4	762.7	18.71	41.755		
5,400.0	5,390.9	5,328.1	5,295.4	10.8	13.4	154.03	422.4	324.9	798.7	779.7	19.07	41.884		
5,500.0	5,490.7	5,426.6	5,393.2	11.0	13.7	154.05	431.7	332.6	816.1	796.6	19.43	42.007		
5,600.0	5,590.5	5,525.0	5,490.9	11.2	13.9	154.06	440.9	340.2	833.4	813.6	19.78	42.127		
5,700.0	5,690.4	5,623.5	5,588.7	11.4	14.2	154.07	450.2	347.9	850.7	830.6	20.14	42.242		
5,800.0	5,790.2	5,722.0	5,686.4	11.6	14.5	154.07	459.5	355.5	868.0	847.5	20.50	42.353		
5,900.0	5,890.0	5,820.5	5,784.2	11.8	14.8	154.08	468.8	363.1	885.3	864.5	20.85	42.460		
6,000.0	5,989.8	5,919.0	5,881.9	12.0	15.0	154.09	478.1	370.8	902.7	881.5	21.21	42.564		
6,100.0	6,089.6	6,017.5	5,979.7	12.2	15.3	154.10	487.3	378.4	920.0	898.4	21.56	42.664		
6,200.0	6,189.5	6,116.0	6,077.4	12.5	15.6	154.11	496.6	386.1	937.3	915.4	21.92	42.761		
6,300.0	6,289.3	6,214.5	6,175.2	12.7	15.8	154.12	505.9	393.7	954.6	932.4	22.28	42.855		
6,400.0	6,389.1	6,312.9	6,272.9	12.9	16.1	154.12	515.2	401.4	972.0	949.3	22.63	42.945		
6,500.0	6,488.9	6,411.4	6,370.7	13.1	16.4	154.13	524.5	409.0	989.3	966.3	22.99	43.033		
6,600.0	6,588.7	6,509.9	6,468.5	13.3	16.7	154.14	533.8	416.7	1,006.6	983.3	23.35	43.119		
7,000.0	6,988.0	7,970.1	7,500.0	14.1	16.7	-167.49	-94.6	497.3	1,023.0	999.0	24.09	42.468		
7,100.0	7,087.8	7,971.4	7,500.0	14.3	16.7	-167.41	-95.9	497.3	982.2	957.3	24.94	39.378		
7,200.0	7,187.6	7,972.1	7,500.0	14.5	16.7	150.36	-96.6	497.3	950.3	924.5	25.73	36.931		
7,300.0	7,286.6	7,960.0	7,500.0	14.7	16.7	107.94	-84.5	497.3	928.1	901.8	26.32	35.268		
7,400.0	7,382.0	7,930.9	7,500.0	14.8	16.6	100.46	-55.4	497.3	916.5	889.9	26.65	34.385		
7,471.4	7,446.3	7,900.1	7,500.0	14.9	16.5	96.90	-24.6	497.3	914.3	887.5	26.76	34.162		
7,500.0	7,470.8	7,885.6	7,500.0	15.0	16.5	95.53	-10.1	497.3	914.6	887.8	26.79	34.136		
7,600.0	7,550.5	7,823.8	7,497.8	15.2	16.4	90.50	51.6	497.2	920.2	893.3	26.90	34.203		
7,700.0	7,618.5	7,763.0	7,489.4	15.6	16.4	85.72	111.9	496.5	931.1	904.0	27.09	34.371		
7,800.0	7,672.9	7,700.0	7,474.0	16.0	16.4	80.99	172.9	495.3	945.8	918.3	27.42	34.492		
7,900.0	7,711.9	7,650.0	7,457.1	16.7	16.5	77.04	219.9	494.0	962.7	934.7	27.93	34.471		
8,000.0	7,734.4	7,591.4	7,432.1	17.5	16.6	73.07	272.9	492.0	980.3	951.6	28.63	34.239		
8,100.0	7,740.0	7,536.4	7,403.9	18.4	16.8	69.98	320.0	489.8	997.4	967.9	29.49	33.819		
8,200.0	7,740.0	7,486.1	7,374.3	19.5	16.9	68.32	360.6	487.5	1,017.7	987.3	30.40	33.482		

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-12.6	12.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-12.6	12.6	12.3	0.30	41.472		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-12.6	12.6	11.9	0.65	19.295		
300.0	300.0	300.0	300.0	0.5	0.5	32.13	0.0	-12.6	11.8	10.8	1.00	11.823		
400.0	400.0	400.0	400.0	0.7	0.7	40.37	0.0	-12.6	9.7	8.4	1.35	7.190		
500.0	499.9	499.9	499.9	0.9	0.8	64.18	0.0	-12.6	7.0	5.3	1.72	4.081		
553.6	553.3	553.3	553.3	1.0	0.9	90.00	0.0	-12.6	6.3	4.4	1.92	3.283 CC, ES, SF		
600.0	599.7	599.7	599.7	1.1	1.0	115.79	0.0	-12.6	7.0	4.9	2.08	3.359		
700.0	699.5	699.5	699.5	1.3	1.2	136.09	0.0	-12.6	11.0	8.6	2.42	4.568		
800.0	799.3	799.3	799.3	1.5	1.4	148.78	0.0	-12.6	15.8	13.0	2.76	5.731		
900.0	899.1	899.1	899.1	1.7	1.5	157.26	0.0	-12.6	21.2	18.1	3.10	6.833		
1,000.0	998.9	998.9	998.9	1.9	1.7	162.24	0.0	-12.6	26.9	23.4	3.45	7.790		
1,100.0	1,098.7	1,098.2	1,098.2	2.1	1.9	165.16	0.5	-11.9	33.5	29.7	3.79	8.827		
1,200.0	1,198.6	1,197.2	1,197.1	2.3	2.1	166.58	2.1	-10.0	41.8	37.7	4.14	10.112		
1,300.0	1,298.4	1,295.9	1,295.8	2.5	2.2	167.08	4.8	-6.7	51.9	47.4	4.48	11.578		
1,400.0	1,398.2	1,394.2	1,393.9	2.7	2.4	167.06	8.5	-2.1	63.6	58.8	4.83	13.183		
1,500.0	1,498.0	1,492.2	1,491.6	2.9	2.6	166.76	13.3	3.8	77.0	71.8	5.17	14.898		
1,600.0	1,597.8	1,589.6	1,588.6	3.1	2.8	166.31	19.1	11.0	92.0	86.5	5.51	16.704		
1,700.0	1,697.6	1,686.6	1,684.9	3.3	3.0	165.81	25.8	19.3	108.7	102.8	5.85	18.585		
1,800.0	1,797.5	1,782.9	1,780.5	3.5	3.3	165.29	33.6	28.9	127.0	120.8	6.19	20.530		
1,900.0	1,897.3	1,878.7	1,875.2	3.7	3.5	164.78	42.3	39.7	146.9	140.4	6.52	22.529		
2,000.0	1,997.1	1,975.6	1,971.0	3.9	3.8	164.31	51.9	51.5	168.1	161.2	6.86	24.482		
2,100.0	2,096.9	2,073.3	2,067.5	4.1	4.0	163.93	61.6	63.5	189.3	182.1	7.21	26.241		
2,200.0	2,196.7	2,171.1	2,164.0	4.3	4.3	163.63	71.3	75.5	210.6	203.0	7.56	27.839		
2,300.0	2,296.5	2,268.8	2,260.4	4.5	4.6	163.39	81.0	87.5	231.8	223.9	7.91	29.296		
2,400.0	2,396.4	2,366.5	2,356.9	4.7	4.9	163.19	90.7	99.5	253.1	244.8	8.26	30.631		
2,500.0	2,496.2	2,464.2	2,453.4	4.9	5.2	163.01	100.4	111.5	274.3	265.7	8.61	31.857		
2,600.0	2,596.0	2,561.9	2,549.9	5.1	5.5	162.87	110.1	123.5	295.6	286.6	8.96	32.988		
2,700.0	2,695.8	2,659.6	2,646.4	5.3	5.8	162.74	119.8	135.5	316.9	307.6	9.31	34.035		
2,800.0	2,795.6	2,757.3	2,742.9	5.5	6.1	162.63	129.5	147.5	338.1	328.5	9.66	35.005		
2,900.0	2,895.5	2,855.0	2,839.4	5.7	6.4	162.53	139.2	159.5	359.4	349.4	10.01	35.908		
3,000.0	2,995.3	2,952.7	2,935.8	5.9	6.7	162.44	148.9	171.5	380.7	370.3	10.36	36.750		
3,100.0	3,095.1	3,050.5	3,032.3	6.1	7.0	162.37	158.6	183.5	401.9	391.2	10.71	37.538		
3,200.0	3,194.9	3,148.2	3,128.8	6.3	7.3	162.30	168.3	195.4	423.2	412.2	11.06	38.275		
3,300.0	3,294.7	3,245.9	3,225.3	6.5	7.6	162.23	178.1	207.4	444.5	433.1	11.41	38.968		
3,400.0	3,394.5	3,343.6	3,321.8	6.7	7.9	162.17	187.8	219.4	465.8	454.0	11.76	39.619		
3,500.0	3,494.4	3,441.3	3,418.3	6.9	8.2	162.12	197.5	231.4	487.0	474.9	12.11	40.232		
3,600.0	3,594.2	3,539.0	3,514.7	7.2	8.5	162.07	207.2	243.4	508.3	495.8	12.45	40.812		
3,700.0	3,694.0	3,636.7	3,611.2	7.4	8.9	162.03	216.9	255.4	529.6	516.8	12.80	41.359		
3,800.0	3,793.8	3,734.4	3,707.7	7.6	9.2	161.99	226.6	267.4	550.8	537.7	13.15	41.878		
3,900.0	3,893.6	3,832.1	3,804.2	7.8	9.5	161.95	236.3	279.4	572.1	558.6	13.50	42.370		
4,000.0	3,993.5	3,929.8	3,900.7	8.0	9.8	161.92	246.0	291.4	593.4	579.5	13.85	42.836		
4,100.0	4,093.3	4,027.6	3,997.2	8.2	10.1	161.88	255.7	303.4	614.7	600.5	14.20	43.280		
4,200.0	4,193.1	4,125.3	4,093.7	8.4	10.4	161.85	265.4	315.4	635.9	621.4	14.55	43.703		
4,300.0	4,292.9	4,223.0	4,190.1	8.6	10.7	161.82	275.1	327.4	657.2	642.3	14.90	44.106		
4,400.0	4,392.7	4,320.7	4,286.6	8.8	11.0	161.80	284.8	339.4	678.5	663.2	15.25	44.490		
4,500.0	4,492.5	4,418.4	4,383.1	9.0	11.4	161.77	294.5	351.4	699.8	684.2	15.60	44.857		
4,600.0	4,592.4	4,516.1	4,479.6	9.2	11.7	161.75	304.2	363.4	721.0	705.1	15.95	45.208		
4,700.0	4,692.2	4,613.8	4,576.1	9.4	12.0	161.73	313.9	375.3	742.3	726.0	16.30	45.544		
4,800.0	4,792.0	4,711.5	4,672.6	9.6	12.3	161.70	323.6	387.3	763.6	746.9	16.65	45.866		
4,900.0	4,891.8	4,809.2	4,769.0	9.8	12.6	161.68	333.3	399.3	784.9	767.9	17.00	46.174		
5,000.0	4,991.6	4,907.0	4,865.5	10.0	12.9	161.67	343.0	411.3	806.1	788.8	17.35	46.471		

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3		Offset Site Error:		0.0 ft
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
5,100.0	5,091.5	5,004.7	4,962.0	10.2	13.3	161.65	352.7	423.3	827.4	809.7	17.70	46.755					
5,200.0	5,191.3	5,102.4	5,058.5	10.4	13.6	161.63	362.4	435.3	848.7	830.6	18.05	47.029					
5,300.0	5,291.1	5,200.1	5,155.0	10.6	13.9	161.61	372.2	447.3	870.0	851.6	18.40	47.292					
5,400.0	5,390.9	5,297.8	5,251.5	10.8	14.2	161.60	381.9	459.3	891.2	872.5	18.75	47.545					
5,500.0	5,490.7	5,395.5	5,348.0	11.0	14.5	161.58	391.6	471.3	912.5	893.4	19.09	47.789					
5,600.0	5,590.5	5,493.2	5,444.4	11.2	14.8	161.57	401.3	483.3	933.8	914.3	19.44	48.024					
5,700.0	5,690.4	5,590.9	5,540.9	11.4	15.2	161.56	411.0	495.3	955.1	935.3	19.79	48.251					
5,800.0	5,790.2	5,688.6	5,637.4	11.6	15.5	161.54	420.7	507.3	976.3	956.2	20.14	48.470					
5,900.0	5,890.0	5,786.3	5,733.9	11.8	15.8	161.53	430.4	519.3	997.6	977.1	20.49	48.681					
6,000.0	5,989.8	5,884.1	5,830.4	12.0	16.1	161.52	440.1	531.3	1,018.9	998.0	20.84	48.886					

Cathedral Energy Services

Anticollision Report

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-89.81	0.0	-2.5	2.5				
100.0	100.0	100.0	100.0	0.2	0.2	-89.81	0.0	-2.5	2.5	2.2	0.30	8.294	Level 2, CC, ES, SF
200.0	200.0	200.0	200.0	0.3	0.3	-89.81	0.0	-2.5	2.5	1.9	0.65	3.859	
300.0	300.0	300.0	300.0	0.5	0.5	44.16	0.0	-2.5	1.8	0.8	1.00	1.814	
350.9	350.9	350.9	350.9	0.6	0.6	91.55	0.1	-2.3	1.2	0.1	1.18	1.051	
400.0	400.0	399.9	399.9	0.7	0.7	151.67	0.4	-1.7	2.5	1.1	1.35	1.831	
500.0	499.9	499.6	499.5	0.9	0.9	174.39	1.4	0.7	9.2	7.5	1.70	5.404	
600.0	599.7	598.8	598.7	1.1	1.0	178.72	3.2	4.6	19.6	17.5	2.05	9.563	
700.0	699.5	697.6	697.2	1.3	1.2	168.08	5.6	10.1	32.1	29.7	2.39	13.417	
800.0	799.3	795.9	795.3	1.5	1.4	167.22	8.7	17.1	45.7	43.0	2.73	16.719	
900.0	899.1	893.8	892.8	1.7	1.7	168.74	12.4	25.6	61.0	58.0	3.07	19.858	
1,000.0	998.9	991.2	989.5	1.9	1.9	169.63	16.8	35.6	78.1	74.7	3.41	22.881	
1,100.0	1,098.7	1,087.9	1,085.5	2.1	2.2	170.18	21.9	47.0	96.8	93.1	3.75	25.820	
1,200.0	1,198.6	1,184.0	1,180.5	2.3	2.4	170.53	27.5	59.7	117.2	113.1	4.09	28.695	
1,300.0	1,298.4	1,279.5	1,274.7	2.5	2.7	170.76	33.8	73.9	139.3	134.8	4.42	31.521	
1,400.0	1,398.2	1,374.1	1,367.8	2.7	3.1	170.90	40.6	89.3	162.9	158.2	4.75	34.311	
1,500.0	1,498.0	1,468.0	1,459.9	2.9	3.4	170.99	48.0	106.0	188.1	183.1	5.07	37.075	
1,600.0	1,597.8	1,564.0	1,553.9	3.1	3.8	171.05	55.9	124.0	214.4	209.0	5.41	39.610	
1,700.0	1,697.6	1,660.4	1,648.3	3.3	4.1	171.10	64.0	142.1	240.7	235.0	5.75	41.832	
1,800.0	1,797.5	1,756.9	1,742.7	3.5	4.5	171.14	72.0	160.2	267.0	260.9	6.10	43.805	
1,900.0	1,897.3	1,853.4	1,837.1	3.7	4.9	171.17	80.0	178.3	293.3	286.9	6.44	45.569	
2,000.0	1,997.1	1,949.9	1,931.6	3.9	5.3	171.20	88.0	196.4	319.6	312.8	6.78	47.156	
2,100.0	2,096.9	2,046.4	2,026.0	4.1	5.6	171.22	96.0	214.5	345.9	338.8	7.12	48.591	
2,200.0	2,196.7	2,142.8	2,120.4	4.3	6.0	171.24	104.0	232.6	372.2	364.8	7.46	49.894	
2,300.0	2,296.5	2,239.3	2,214.8	4.5	6.4	171.25	112.0	250.7	398.5	390.7	7.80	51.083	
2,400.0	2,396.4	2,335.8	2,309.3	4.7	6.8	171.27	120.0	268.8	424.8	416.7	8.14	52.173	
2,500.0	2,496.2	2,432.3	2,403.7	4.9	7.2	171.28	128.0	286.9	451.1	442.6	8.48	53.175	
2,600.0	2,596.0	2,528.8	2,498.1	5.1	7.5	171.29	136.0	305.0	477.4	468.6	8.82	54.100	
2,700.0	2,695.8	2,625.2	2,592.5	5.3	7.9	171.30	144.0	323.1	503.7	494.6	9.17	54.956	
2,800.0	2,795.6	2,721.7	2,687.0	5.5	8.3	171.31	152.0	341.2	530.0	520.5	9.51	55.750	
2,900.0	2,895.5	2,818.2	2,781.4	5.7	8.7	171.32	160.0	359.3	556.3	546.5	9.85	56.490	
3,000.0	2,995.3	2,914.7	2,875.8	5.9	9.1	171.33	168.0	377.4	582.6	572.4	10.19	57.180	
3,100.0	3,095.1	3,011.2	2,970.3	6.1	9.5	171.33	176.0	395.5	608.9	598.4	10.53	57.825	
3,200.0	3,194.9	3,107.6	3,064.7	6.3	9.9	171.34	184.0	413.7	635.2	624.4	10.87	58.429	
3,300.0	3,294.7	3,204.1	3,159.1	6.5	10.2	171.35	192.1	431.8	661.5	650.3	11.21	58.997	
3,400.0	3,394.5	3,300.6	3,253.5	6.7	10.6	171.35	200.1	449.9	687.8	676.3	11.55	59.532	
3,500.0	3,494.4	3,397.1	3,348.0	6.9	11.0	171.36	208.1	468.0	714.1	702.2	11.90	60.036	
3,600.0	3,594.2	3,493.6	3,442.4	7.2	11.4	171.36	216.1	486.1	740.4	728.2	12.24	60.511	
3,700.0	3,694.0	3,590.0	3,536.8	7.4	11.8	171.37	224.1	504.2	766.7	754.2	12.58	60.961	
3,800.0	3,793.8	3,686.5	3,631.2	7.6	12.2	171.37	232.1	522.3	793.0	780.1	12.92	61.387	
3,900.0	3,893.6	3,783.0	3,725.7	7.8	12.6	171.37	240.1	540.4	819.3	806.1	13.26	61.791	
4,000.0	3,993.5	3,879.5	3,820.1	8.0	12.9	171.38	248.1	558.5	845.6	832.0	13.60	62.175	
4,100.0	4,093.3	3,975.9	3,914.5	8.2	13.3	171.38	256.1	576.6	871.9	858.0	13.94	62.540	
4,200.0	4,193.1	4,072.4	4,008.9	8.4	13.7	171.38	264.1	594.7	898.2	884.0	14.28	62.888	
4,300.0	4,292.9	4,168.9	4,103.4	8.6	14.1	171.39	272.1	612.8	924.5	909.9	14.62	63.219	
4,400.0	4,392.7	4,265.4	4,197.8	8.8	14.5	171.39	280.1	630.9	950.8	935.9	14.97	63.536	
4,500.0	4,492.5	4,361.9	4,292.2	9.0	14.9	171.39	288.1	649.0	977.1	961.8	15.31	63.838	
4,600.0	4,592.4	4,458.3	4,386.7	9.2	15.3	171.39	296.1	667.1	1,003.4	987.8	15.65	64.127	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	89.90	0.0	7.3	7.3				
100.0	100.0	100.0	100.0	0.2	0.2	89.90	0.0	7.3	7.3	7.0	0.30	23.962	
200.0	200.0	200.0	200.0	0.3	0.3	89.90	0.0	7.3	7.3	6.6	0.65	11.148 CC, ES	
300.0	300.0	299.8	299.8	0.5	0.5	-154.72	0.3	8.1	8.9	7.9	1.00	8.872 SF	
400.0	400.0	399.5	399.5	0.7	0.7	-161.98	1.1	10.6	13.9	12.5	1.35	10.292	
500.0	499.9	498.8	498.7	0.9	0.9	-166.75	2.6	14.6	22.4	20.7	1.70	13.214	
600.0	599.7	597.6	597.3	1.1	1.1	-169.44	4.5	20.3	34.5	32.4	2.04	16.867	
700.0	699.5	695.9	695.3	1.3	1.3	176.47	7.0	27.6	48.7	46.3	2.39	20.422	
800.0	799.3	793.7	792.6	1.5	1.5	173.65	10.0	36.3	64.2	61.5	2.73	23.535	
900.0	899.1	891.0	889.3	1.7	1.7	174.14	13.6	46.6	81.3	78.2	3.07	26.516	
1,000.0	998.9	987.7	985.2	1.9	2.0	174.45	17.6	58.4	100.1	96.7	3.40	29.410	
1,100.0	1,098.7	1,083.7	1,080.2	2.1	2.3	174.66	22.2	71.6	120.5	116.8	3.74	32.244	
1,200.0	1,198.6	1,179.1	1,174.3	2.3	2.6	174.79	27.2	86.2	142.6	138.6	4.07	35.034	
1,300.0	1,298.4	1,273.7	1,267.4	2.5	2.9	174.88	32.7	102.1	166.3	161.9	4.40	37.791	
1,400.0	1,398.2	1,367.5	1,359.4	2.7	3.3	174.94	38.6	119.3	191.6	186.9	4.73	40.525	
1,500.0	1,498.0	1,460.5	1,450.3	2.9	3.6	174.97	45.0	137.8	218.5	213.4	5.05	43.242	
1,600.0	1,597.8	1,552.6	1,540.1	3.1	4.0	174.99	51.8	157.5	246.9	241.5	5.37	45.946	
1,700.0	1,697.6	1,646.2	1,630.9	3.3	4.5	175.00	59.1	178.7	276.6	270.9	5.70	48.510	
1,800.0	1,797.5	1,741.6	1,723.6	3.5	4.9	175.01	66.6	200.5	306.5	300.5	6.04	50.746	
1,900.0	1,897.3	1,837.0	1,816.2	3.7	5.3	175.02	74.1	222.2	336.4	330.0	6.38	52.745	
2,000.0	1,997.1	1,932.5	1,908.8	3.9	5.7	175.02	81.6	244.0	366.3	359.6	6.72	54.544	
2,100.0	2,096.9	2,027.9	2,001.4	4.1	6.2	175.03	89.1	265.8	396.2	389.2	7.05	56.170	
2,200.0	2,196.7	2,123.3	2,094.0	4.3	6.6	175.03	96.6	287.5	426.1	418.7	7.39	57.648	
2,300.0	2,296.5	2,218.7	2,186.6	4.5	7.0	175.04	104.1	309.3	456.0	448.3	7.73	58.997	
2,400.0	2,396.4	2,314.2	2,279.2	4.7	7.5	175.04	111.6	331.0	485.9	477.8	8.07	60.234	
2,500.0	2,496.2	2,409.6	2,371.8	4.9	7.9	175.04	119.1	352.8	515.8	507.4	8.40	61.371	
2,600.0	2,596.0	2,505.0	2,464.4	5.1	8.3	175.04	126.6	374.5	545.7	537.0	8.74	62.420	
2,700.0	2,695.8	2,600.5	2,557.0	5.3	8.8	175.05	134.1	396.3	575.6	566.5	9.08	63.392	
2,800.0	2,795.6	2,695.9	2,649.6	5.5	9.2	175.05	141.5	418.1	605.5	596.1	9.42	64.293	
2,900.0	2,895.5	2,791.3	2,742.3	5.7	9.7	175.05	149.0	439.8	635.4	625.7	9.76	65.133	
3,000.0	2,995.3	2,886.7	2,834.9	5.9	10.1	175.05	156.5	461.6	665.3	655.2	10.09	65.916	
3,100.0	3,095.1	2,982.2	2,927.5	6.1	10.5	175.05	164.0	483.3	695.2	684.8	10.43	66.649	
3,200.0	3,194.9	3,077.6	3,020.1	6.3	11.0	175.05	171.5	505.1	725.1	714.3	10.77	67.335	
3,300.0	3,294.7	3,173.0	3,112.7	6.5	11.4	175.06	179.0	526.8	755.0	743.9	11.11	67.981	
3,400.0	3,394.5	3,268.4	3,205.3	6.7	11.9	175.06	186.5	548.6	784.9	773.5	11.44	68.588	
3,500.0	3,494.4	3,363.9	3,297.9	6.9	12.3	175.06	194.0	570.4	814.8	803.0	11.78	69.160	
3,600.0	3,594.2	3,459.3	3,390.5	7.2	12.7	175.06	201.5	592.1	844.7	832.6	12.12	69.700	
3,700.0	3,694.0	3,554.7	3,483.1	7.4	13.2	175.06	209.0	613.9	874.6	862.1	12.46	70.212	
3,800.0	3,793.8	3,650.1	3,575.7	7.6	13.6	175.06	216.5	635.6	904.5	891.7	12.79	70.696	
3,900.0	3,893.6	3,745.6	3,668.3	7.8	14.1	175.06	224.0	657.4	934.4	921.3	13.13	71.155	
4,000.0	3,993.5	3,841.0	3,760.9	8.0	14.5	175.06	231.5	679.2	964.3	950.8	13.47	71.592	
4,100.0	4,093.3	3,936.4	3,853.6	8.2	15.0	175.06	239.0	700.9	994.2	980.4	13.81	72.007	

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

Cathedral Energy Services

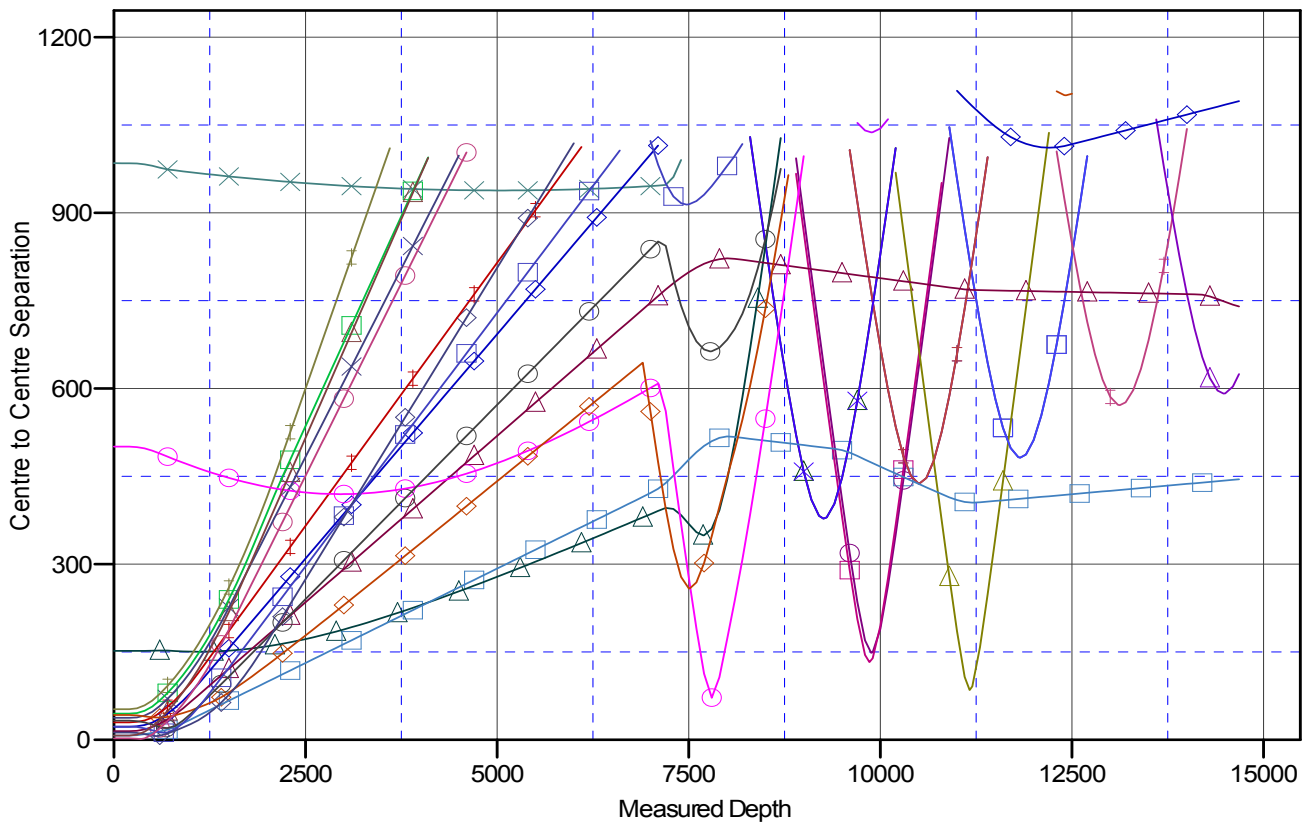
Anticollision Report

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

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

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

Ladder Plot



LEGEND

STING), ENCANA WELL, SURVEYS V0	BECKY 4 (EXISTING), MARTINEXP WELL, NO SURVEYS V0	Woolley-Becky 2G-7H-E168, Hz, Plan #2
Woolley-Becky 2A-7H-E168, Hz, Plan #2	BECKY 5-6 (EXISTING), FOUNDATION WELL, NO SURVEYS V0	Woolley-Becky 2H-7H-E168, Hz, Plan #2
Thomas 7-12 (Existing), Existing, NO SURVEYS V0	Woolley-Becky 2B-7H-E168, Hz, Plan #2	Woolley-Sosa 2A-7H-E168, Hz, Plan #2
Woolley-Becky 2C-7H-E168, Hz, Plan #2	Woolley-Becky 2D-7H-E168, Hz, Plan #2	Woolley-Sosa 2B-7H-E168, Hz, Plan #2
Woolley-Becky 2E-7H-E168, Hz, Plan #2	Woolley-Becky 2F-7H-E168, Hz, Plan #2	Woolley-Sosa 2C-7H-E168, Hz, Plan #2
Woolley-Becky 2G-7H-E168, Hz, Plan #2	Woolley-Becky 2H-7H-E168, Hz, Plan #2	Woolley-Sosa 2D-7H-E168, Hz, Plan #2
Woolley-Becky 2I-7H-E168, Hz, Plan #2	Woolley-Becky 2J-7H-E168, Hz, Plan #2	Woolley-Sosa 2E-7H-E168, Hz, Plan #2
Woolley-Becky 2K-7H-E168, Hz, Plan #2	Woolley-Becky 2L-7H-E168, Hz, Plan #2	Woolley-Sosa 2F-7H-E168, Hz, Plan #2
Woolley-Becky 2M-7H-E168, Hz, Plan #2	Woolley-Becky 2N-7H-E168, Hz, Plan #2	Woolley-Sosa 2G-7H-E168, Hz, Plan #2

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