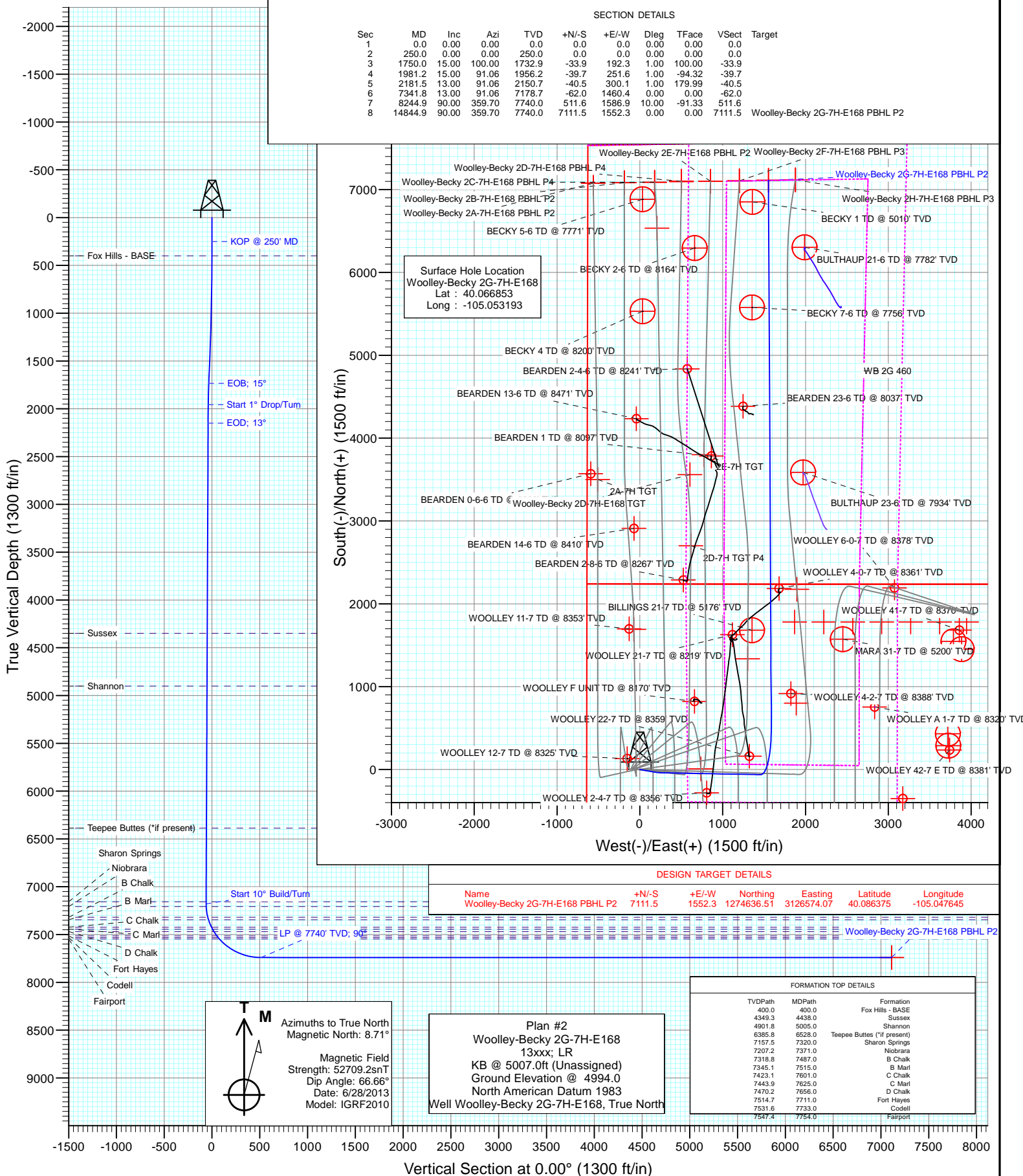




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)
Well: Woolley-Becky 2G-7H-E168
Wellbore: Hz
Design: Plan #2



Cathedral Energy Services

Planning Report

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

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 2G-7H-E168					
Well Position	+N/-S	0.0 ft	Northing:	1,267,517.29 ft	Latitude:	40.066853
	+E/-W	0.0 ft	Easting:	3,125,057.60 ft	Longitude:	-105.053193
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 #2			
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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,750.0	15.00	100.00	1,732.9	-33.9	192.3	1.00	1.00	0.00	100.00	
1,981.2	15.00	91.06	1,956.2	-39.7	251.6	1.00	0.00	-3.87	-94.32	
2,181.5	13.00	91.06	2,150.7	-40.5	300.1	1.00	-1.00	0.00	179.99	
7,341.8	13.00	91.06	7,178.7	-62.0	1,460.4	0.00	0.00	0.00	0.00	
8,244.9	90.00	359.70	7,740.0	511.6	1,586.9	10.00	8.53	-10.12	-91.33	
14,844.9	90.00	359.70	7,740.0	7,111.5	1,552.3	0.00	0.00	0.00	0.00	Woolley-Becky 2G-7H-

Cathedral Energy Services

Planning Report

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

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	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250' MD
300.0	0.50	100.00	300.0	0.0	0.2	0.0	1.00	1.00	
400.0	1.50	100.00	400.0	-0.3	1.9	-0.3	1.00	1.00	Fox Hills - BASE
500.0	2.50	100.00	499.9	-0.9	5.4	-0.9	1.00	1.00	
600.0	3.50	100.00	599.8	-1.9	10.5	-1.9	1.00	1.00	
700.0	4.50	100.00	699.5	-3.1	17.4	-3.1	1.00	1.00	
800.0	5.50	100.00	799.2	-4.6	26.0	-4.6	1.00	1.00	
900.0	6.50	100.00	898.6	-6.4	36.3	-6.4	1.00	1.00	
1,000.0	7.50	100.00	997.9	-8.5	48.3	-8.5	1.00	1.00	
1,100.0	8.50	100.00	1,096.9	-10.9	62.0	-10.9	1.00	1.00	
1,200.0	9.50	100.00	1,195.7	-13.6	77.4	-13.6	1.00	1.00	
1,300.0	10.50	100.00	1,294.1	-16.7	94.5	-16.7	1.00	1.00	
1,400.0	11.50	100.00	1,392.3	-20.0	113.3	-20.0	1.00	1.00	
1,500.0	12.50	100.00	1,490.1	-23.6	133.8	-23.6	1.00	1.00	
1,600.0	13.50	100.00	1,587.5	-27.5	155.9	-27.5	1.00	1.00	
1,700.0	14.50	100.00	1,684.6	-31.7	179.7	-31.7	1.00	1.00	
1,750.0	15.00	100.00	1,732.9	-33.9	192.3	-33.9	1.00	1.00	EOB; 15°
1,800.0	14.97	98.07	1,781.2	-35.9	205.0	-35.9	1.00	-0.06	
1,900.0	14.96	94.20	1,877.8	-38.7	230.7	-38.7	1.00	-0.01	
1,981.2	15.00	91.06	1,956.2	-39.7	251.6	-39.7	1.00	0.05	Start 1° Drop/Turn
2,000.0	14.81	91.06	1,974.4	-39.7	256.5	-39.7	1.00	-1.00	
2,100.0	13.81	91.06	2,071.3	-40.2	281.2	-40.2	1.00	-1.00	
2,181.5	13.00	91.06	2,150.7	-40.5	300.1	-40.5	1.00	-1.00	EOD; 13°
2,200.0	13.00	91.06	2,168.6	-40.6	304.3	-40.6	0.00	0.00	
2,300.0	13.00	91.06	2,266.1	-41.0	326.7	-41.0	0.00	0.00	
2,400.0	13.00	91.06	2,363.5	-41.5	349.2	-41.5	0.00	0.00	
2,500.0	13.00	91.06	2,461.0	-41.9	371.7	-41.9	0.00	0.00	
2,600.0	13.00	91.06	2,558.4	-42.3	394.2	-42.3	0.00	0.00	
2,700.0	13.00	91.06	2,655.8	-42.7	416.7	-42.7	0.00	0.00	
2,800.0	13.00	91.06	2,753.3	-43.1	439.2	-43.1	0.00	0.00	
2,900.0	13.00	91.06	2,850.7	-43.5	461.6	-43.5	0.00	0.00	
3,000.0	13.00	91.06	2,948.2	-44.0	484.1	-44.0	0.00	0.00	
3,100.0	13.00	91.06	3,045.6	-44.4	506.6	-44.4	0.00	0.00	
3,200.0	13.00	91.06	3,143.0	-44.8	529.1	-44.8	0.00	0.00	
3,300.0	13.00	91.06	3,240.5	-45.2	551.6	-45.2	0.00	0.00	
3,400.0	13.00	91.06	3,337.9	-45.6	574.1	-45.6	0.00	0.00	
3,500.0	13.00	91.06	3,435.3	-46.0	596.6	-46.0	0.00	0.00	
3,600.0	13.00	91.06	3,532.8	-46.5	619.0	-46.5	0.00	0.00	
3,700.0	13.00	91.06	3,630.2	-46.9	641.5	-46.9	0.00	0.00	
3,800.0	13.00	91.06	3,727.7	-47.3	664.0	-47.3	0.00	0.00	
3,900.0	13.00	91.06	3,825.1	-47.7	686.5	-47.7	0.00	0.00	
4,000.0	13.00	91.06	3,922.5	-48.1	709.0	-48.1	0.00	0.00	
4,100.0	13.00	91.06	4,020.0	-48.5	731.5	-48.5	0.00	0.00	
4,200.0	13.00	91.06	4,117.4	-49.0	754.0	-49.0	0.00	0.00	
4,300.0	13.00	91.06	4,214.9	-49.4	776.4	-49.4	0.00	0.00	
4,400.0	13.00	91.06	4,312.3	-49.8	798.9	-49.8	0.00	0.00	
4,438.0	13.00	91.06	4,349.3	-49.9	807.5	-49.9	0.00	0.00	Sussex
4,500.0	13.00	91.06	4,409.7	-50.2	821.4	-50.2	0.00	0.00	
4,600.0	13.00	91.06	4,507.2	-50.6	843.9	-50.6	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,700.0	13.00	91.06	4,604.6	-51.0	866.4	-51.0	0.00	0.00	
4,800.0	13.00	91.06	4,702.0	-51.5	888.9	-51.5	0.00	0.00	
4,900.0	13.00	91.06	4,799.5	-51.9	911.3	-51.9	0.00	0.00	
5,000.0	13.00	91.06	4,896.9	-52.3	933.8	-52.3	0.00	0.00	
5,005.0	13.00	91.06	4,901.8	-52.3	935.0	-52.3	0.00	0.00	Shannon
5,100.0	13.00	91.06	4,994.4	-52.7	956.3	-52.7	0.00	0.00	
5,200.0	13.00	91.06	5,091.8	-53.1	978.8	-53.1	0.00	0.00	
5,300.0	13.00	91.06	5,189.2	-53.5	1,001.3	-53.5	0.00	0.00	
5,400.0	13.00	91.06	5,286.7	-54.0	1,023.8	-54.0	0.00	0.00	
5,500.0	13.00	91.06	5,384.1	-54.4	1,046.3	-54.4	0.00	0.00	
5,600.0	13.00	91.06	5,481.6	-54.8	1,068.7	-54.8	0.00	0.00	
5,700.0	13.00	91.06	5,579.0	-55.2	1,091.2	-55.2	0.00	0.00	
5,800.0	13.00	91.06	5,676.4	-55.6	1,113.7	-55.6	0.00	0.00	
5,900.0	13.00	91.06	5,773.9	-56.0	1,136.2	-56.0	0.00	0.00	
6,000.0	13.00	91.06	5,871.3	-56.5	1,158.7	-56.5	0.00	0.00	
6,100.0	13.00	91.06	5,968.7	-56.9	1,181.2	-56.9	0.00	0.00	
6,200.0	13.00	91.06	6,066.2	-57.3	1,203.6	-57.3	0.00	0.00	
6,300.0	13.00	91.06	6,163.6	-57.7	1,226.1	-57.7	0.00	0.00	
6,400.0	13.00	91.06	6,261.1	-58.1	1,248.6	-58.1	0.00	0.00	
6,500.0	13.00	91.06	6,358.5	-58.5	1,271.1	-58.5	0.00	0.00	
6,528.0	13.00	91.06	6,385.8	-58.7	1,277.4	-58.7	0.00	0.00	Teepee Buttes (*if present)
6,600.0	13.00	91.06	6,455.9	-59.0	1,293.6	-59.0	0.00	0.00	
6,700.0	13.00	91.06	6,553.4	-59.4	1,316.1	-59.4	0.00	0.00	
6,800.0	13.00	91.06	6,650.8	-59.8	1,338.6	-59.8	0.00	0.00	
6,900.0	13.00	91.06	6,748.3	-60.2	1,361.0	-60.2	0.00	0.00	
7,000.0	13.00	91.06	6,845.7	-60.6	1,383.5	-60.6	0.00	0.00	
7,100.0	13.00	91.06	6,943.1	-61.0	1,406.0	-61.0	0.00	0.00	
7,200.0	13.00	91.06	7,040.6	-61.4	1,428.5	-61.4	0.00	0.00	
7,300.0	13.00	91.06	7,138.0	-61.9	1,451.0	-61.9	0.00	0.00	
7,320.0	13.00	91.06	7,157.5	-61.9	1,455.5	-61.9	0.00	0.00	Sharon Springs
7,341.8	13.00	91.06	7,178.7	-62.0	1,460.4	-62.0	0.00	0.00	Start 10° Build/Turn
7,350.0	13.00	87.41	7,186.7	-62.0	1,462.2	-62.0	10.00	0.08	
7,371.0	13.25	78.22	7,207.2	-61.4	1,466.9	-61.4	10.00	1.17	Niobrara
7,400.0	14.10	66.46	7,235.4	-59.3	1,473.4	-59.3	10.00	2.92	
7,450.0	16.66	50.16	7,283.6	-52.3	1,484.5	-52.3	10.00	5.12	
7,487.0	19.17	41.29	7,318.8	-44.3	1,492.6	-44.3	10.00	6.78	B Chalk
7,500.0	20.13	38.70	7,331.0	-41.0	1,495.4	-41.0	10.00	7.43	
7,515.0	21.29	36.01	7,345.1	-36.8	1,498.6	-36.8	10.00	7.72	B Marl
7,550.0	24.13	30.70	7,377.4	-25.5	1,506.0	-25.5	10.00	8.12	
7,600.0	28.43	24.92	7,422.2	-5.9	1,516.3	-5.9	10.00	8.60	
7,601.0	28.52	24.82	7,423.1	-5.4	1,516.5	-5.4	10.00	8.82	C Chalk
7,625.0	30.66	22.61	7,443.9	5.4	1,521.2	5.4	10.00	8.90	C Marl
7,650.0	32.92	20.58	7,465.2	17.7	1,526.1	17.7	10.00	9.04	
7,656.0	33.47	20.13	7,470.2	20.7	1,527.2	20.7	10.00	9.12	D Chalk
7,700.0	37.52	17.19	7,506.0	44.9	1,535.3	44.9	10.00	9.22	
7,711.0	38.55	16.53	7,514.7	51.4	1,537.3	51.4	10.00	9.31	Fort Hayes
7,733.0	40.60	15.31	7,531.6	64.9	1,541.1	64.9	10.00	9.36	Codell
7,750.0	42.20	14.44	7,544.4	75.8	1,544.0	75.8	10.00	9.40	
7,754.0	42.58	14.24	7,547.4	78.4	1,544.7	78.4	10.00	9.43	Fairport
7,800.0	46.94	12.15	7,580.0	109.9	1,552.1	109.9	10.00	9.48	
7,850.0	51.71	10.19	7,612.6	147.1	1,559.4	147.1	10.00	9.55	
7,900.0	56.52	8.48	7,641.9	187.1	1,565.9	187.1	10.00	9.61	

Cathedral Energy Services

Planning Report

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

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
7,950.0	61.34	6.94	7,667.7	229.5	1,571.7	229.5	10.00	9.65	
8,000.0	66.18	5.55	7,689.8	274.1	1,576.5	274.1	10.00	9.68	
8,050.0	71.03	4.25	7,708.0	320.4	1,580.5	320.4	10.00	9.70	
8,100.0	75.89	3.02	7,722.3	368.2	1,583.5	368.2	10.00	9.72	
8,150.0	80.76	1.85	7,732.4	417.2	1,585.6	417.2	10.00	9.73	
8,200.0	85.63	0.71	7,738.3	466.8	1,586.7	466.8	10.00	9.74	
8,244.9	90.00	359.70	7,740.0	511.6	1,586.9	511.6	10.00	9.74	LP @ 7740' TVD; 90°
8,300.0	90.00	359.70	7,740.0	566.7	1,586.6	566.7	0.00	0.00	
8,400.0	90.00	359.70	7,740.0	666.7	1,586.1	666.7	0.00	0.00	
8,500.0	90.00	359.70	7,740.0	766.7	1,585.5	766.7	0.00	0.00	
8,600.0	90.00	359.70	7,740.0	866.7	1,585.0	866.7	0.00	0.00	
8,700.0	90.00	359.70	7,740.0	966.7	1,584.5	966.7	0.00	0.00	
8,800.0	90.00	359.70	7,740.0	1,066.7	1,584.0	1,066.7	0.00	0.00	
8,900.0	90.00	359.70	7,740.0	1,166.7	1,583.5	1,166.7	0.00	0.00	
9,000.0	90.00	359.70	7,740.0	1,266.7	1,582.9	1,266.7	0.00	0.00	
9,100.0	90.00	359.70	7,740.0	1,366.7	1,582.4	1,366.7	0.00	0.00	
9,200.0	90.00	359.70	7,740.0	1,466.7	1,581.9	1,466.7	0.00	0.00	
9,300.0	90.00	359.70	7,740.0	1,566.7	1,581.4	1,566.7	0.00	0.00	
9,400.0	90.00	359.70	7,740.0	1,666.7	1,580.8	1,666.7	0.00	0.00	
9,500.0	90.00	359.70	7,740.0	1,766.7	1,580.3	1,766.7	0.00	0.00	
9,600.0	90.00	359.70	7,740.0	1,866.7	1,579.8	1,866.7	0.00	0.00	
9,700.0	90.00	359.70	7,740.0	1,966.7	1,579.3	1,966.7	0.00	0.00	
9,800.0	90.00	359.70	7,740.0	2,066.7	1,578.7	2,066.7	0.00	0.00	
9,900.0	90.00	359.70	7,740.0	2,166.7	1,578.2	2,166.7	0.00	0.00	
10,000.0	90.00	359.70	7,740.0	2,266.7	1,577.7	2,266.7	0.00	0.00	
10,100.0	90.00	359.70	7,740.0	2,366.7	1,577.2	2,366.7	0.00	0.00	
10,200.0	90.00	359.70	7,740.0	2,466.7	1,576.6	2,466.7	0.00	0.00	
10,300.0	90.00	359.70	7,740.0	2,566.7	1,576.1	2,566.7	0.00	0.00	
10,400.0	90.00	359.70	7,740.0	2,666.7	1,575.6	2,666.7	0.00	0.00	
10,500.0	90.00	359.70	7,740.0	2,766.7	1,575.1	2,766.7	0.00	0.00	
10,600.0	90.00	359.70	7,740.0	2,866.7	1,574.6	2,866.7	0.00	0.00	
10,700.0	90.00	359.70	7,740.0	2,966.7	1,574.0	2,966.7	0.00	0.00	
10,800.0	90.00	359.70	7,740.0	3,066.7	1,573.5	3,066.7	0.00	0.00	
10,900.0	90.00	359.70	7,740.0	3,166.7	1,573.0	3,166.7	0.00	0.00	
11,000.0	90.00	359.70	7,740.0	3,266.7	1,572.5	3,266.7	0.00	0.00	
11,100.0	90.00	359.70	7,740.0	3,366.7	1,571.9	3,366.7	0.00	0.00	
11,200.0	90.00	359.70	7,740.0	3,466.7	1,571.4	3,466.7	0.00	0.00	
11,300.0	90.00	359.70	7,740.0	3,566.7	1,570.9	3,566.7	0.00	0.00	
11,400.0	90.00	359.70	7,740.0	3,666.7	1,570.4	3,666.7	0.00	0.00	
11,500.0	90.00	359.70	7,740.0	3,766.7	1,569.8	3,766.7	0.00	0.00	
11,600.0	90.00	359.70	7,740.0	3,866.7	1,569.3	3,866.7	0.00	0.00	
11,700.0	90.00	359.70	7,740.0	3,966.7	1,568.8	3,966.7	0.00	0.00	
11,800.0	90.00	359.70	7,740.0	4,066.7	1,568.3	4,066.7	0.00	0.00	
11,900.0	90.00	359.70	7,740.0	4,166.7	1,567.7	4,166.7	0.00	0.00	
12,000.0	90.00	359.70	7,740.0	4,266.7	1,567.2	4,266.7	0.00	0.00	
12,100.0	90.00	359.70	7,740.0	4,366.7	1,566.7	4,366.7	0.00	0.00	
12,200.0	90.00	359.70	7,740.0	4,466.7	1,566.2	4,466.7	0.00	0.00	
12,300.0	90.00	359.70	7,740.0	4,566.7	1,565.7	4,566.7	0.00	0.00	
12,400.0	90.00	359.70	7,740.0	4,666.7	1,565.1	4,666.7	0.00	0.00	
12,500.0	90.00	359.70	7,740.0	4,766.7	1,564.6	4,766.7	0.00	0.00	
12,600.0	90.00	359.70	7,740.0	4,866.7	1,564.1	4,866.7	0.00	0.00	
12,700.0	90.00	359.70	7,740.0	4,966.7	1,563.6	4,966.7	0.00	0.00	

Cathedral Energy Services

Planning Report

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

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
12,800.0	90.00	359.70	7,740.0	5,066.7	1,563.0	5,066.7	0.00	0.00	
12,900.0	90.00	359.70	7,740.0	5,166.7	1,562.5	5,166.7	0.00	0.00	
13,000.0	90.00	359.70	7,740.0	5,266.7	1,562.0	5,266.7	0.00	0.00	
13,100.0	90.00	359.70	7,740.0	5,366.7	1,561.5	5,366.7	0.00	0.00	
13,200.0	90.00	359.70	7,740.0	5,466.7	1,560.9	5,466.7	0.00	0.00	
13,300.0	90.00	359.70	7,740.0	5,566.7	1,560.4	5,566.7	0.00	0.00	
13,400.0	90.00	359.70	7,740.0	5,666.7	1,559.9	5,666.7	0.00	0.00	
13,500.0	90.00	359.70	7,740.0	5,766.7	1,559.4	5,766.7	0.00	0.00	
13,600.0	90.00	359.70	7,740.0	5,866.7	1,558.8	5,866.7	0.00	0.00	
13,700.0	90.00	359.70	7,740.0	5,966.7	1,558.3	5,966.7	0.00	0.00	
13,800.0	90.00	359.70	7,740.0	6,066.6	1,557.8	6,066.6	0.00	0.00	
13,900.0	90.00	359.70	7,740.0	6,166.6	1,557.3	6,166.6	0.00	0.00	
14,000.0	90.00	359.70	7,740.0	6,266.6	1,556.8	6,266.6	0.00	0.00	
14,100.0	90.00	359.70	7,740.0	6,366.6	1,556.2	6,366.6	0.00	0.00	
14,200.0	90.00	359.70	7,740.0	6,466.6	1,555.7	6,466.6	0.00	0.00	
14,300.0	90.00	359.70	7,740.0	6,566.6	1,555.2	6,566.6	0.00	0.00	
14,400.0	90.00	359.70	7,740.0	6,666.6	1,554.7	6,666.6	0.00	0.00	
14,500.0	90.00	359.70	7,740.0	6,766.6	1,554.1	6,766.6	0.00	0.00	
14,600.0	90.00	359.70	7,740.0	6,866.6	1,553.6	6,866.6	0.00	0.00	
14,700.0	90.00	359.70	7,740.0	6,966.6	1,553.1	6,966.6	0.00	0.00	
14,800.0	90.00	359.70	7,740.0	7,066.6	1,552.6	7,066.6	0.00	0.00	
14,844.9	90.00	359.70	7,740.0	7,111.5	1,552.3	7,111.5	0.00	0.00	TD at 14844.9

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Woolley-Becky 2G-7H-E	0.00	0.00	7,740.0	7,111.5	1,552.3	1,274,636.51	3,126,574.07	40.086375	-105.047645
- plan hits target center									
- Point									
Woolley-Becky 2G-7H-E	0.00	0.00	7,788.0	7,113.3	1,553.7	1,274,638.34	3,126,575.46	40.086380	-105.047640
- plan misses target center by 48.1ft at 14844.9ft MD (7740.0 TVD, 7111.5 N, 1552.3 E)									
- Point									

Cathedral Energy Services

Planning Report

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
400.0	400.0	Fox Hills - BASE				
4,438.0	4,349.3	Sussex				
5,005.0	4,901.8	Shannon				
6,528.0	6,385.8	Teepee Buttes (*if present)				
7,320.0	7,157.5	Sharon Springs				
7,371.0	7,207.2	Niobrara				
7,487.0	7,318.8	B Chalk				
7,515.0	7,345.1	B Marl				
7,601.0	7,423.1	C Chalk				
7,625.0	7,443.9	C Marl				
7,656.0	7,470.2	D Chalk				
7,711.0	7,514.7	Fort Hayes				
7,733.0	7,531.6	Codell				
7,754.0	7,547.4	Fairport				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
250.0	250.0	0.0	0.0	KOP @ 250' MD	
1,750.0	1,732.9	-33.9	192.3	EOB; 15°	
1,981.2	1,956.2	-39.7	251.6	Start 1° Drop/Turn	
2,181.5	2,150.7	-40.5	300.1	EOD; 13°	
7,341.8	7,178.7	-62.0	1,460.4	Start 10° Build/Turn	
8,244.9	7,740.0	511.6	1,586.9	LP @ 7740' TVD; 90°	
14,844.9	7,740.0	7,111.5	1,552.3	TD at 14844.9	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

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

Woolley-Becky 2G-7H-E168

Hz

Plan #2

Anticollision Report

10 December, 2014

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 5,280.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	12/9/2014		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,844.9	Plan #2 (Hz)	Geolink MWD	Geolink MWD	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,514.4	7,716.2	707.7	624.8	8.538	CC, ES
BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS	11,600.0	7,718.0	712.8	628.5	8.450	SF
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	11,972.0	7,824.3	1,605.4	1,511.4	17.082	CC
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	12,000.0	7,824.3	1,605.6	1,511.2	16.997	ES
BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVE	12,400.0	7,823.4	1,661.5	1,560.1	16.388	SF
BEARDEN 23-6 (EXISTING) - ENCANA WELL - GYRO	12,104.3	7,706.6	323.3	230.4	3.479	CC, ES, SF
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,574.8	7,850.5	992.5	880.2	8.839	CC
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,600.0	7,850.5	992.8	880.1	8.807	ES
BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O	12,700.0	7,850.5	1,000.3	885.9	8.740	SF
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	10,018.2	7,913.2	1,049.9	979.1	14.840	CC, ES
BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE	10,300.0	7,916.2	1,087.0	1,011.5	14.401	SF
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	14,032.0	7,693.0	895.1	768.8	7.087	CC, ES
BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS	14,100.0	7,693.0	897.7	770.2	7.041	SF
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,272.5	7,697.0	1,528.4	1,415.3	13.514	CC
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,300.0	7,697.0	1,528.6	1,415.1	13.459	ES
BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURV	13,600.0	7,697.0	1,563.1	1,444.3	13.158	SF
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,625.1	7,688.0	1,521.9	1,385.2	11.138	CC, ES
BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SU	14,844.9	7,688.0	1,537.7	1,397.2	10.947	SF
BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS	13,311.9	7,694.0	206.9	93.1	1.818	CC, ES, SF
BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WELL - S	14,032.2	7,805.7	432.1	300.7	3.289	CC, ES, SF
BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WELL - S	11,314.5	7,848.3	399.4	315.5	4.757	CC, ES, SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	7,650.0	9,629.0	822.9	769.8	15.490	SF
Morgan Hills 1A-7H-A168 - HZ - Plan #2	7,900.0	9,459.6	794.8	746.6	16.481	ES
Morgan Hills 1A-7H-A168 - HZ - Plan #2	7,960.1	9,408.3	794.2	747.2	16.918	CC
Morgan Hills 1B-7H-A168 - HZ - Plan #2	7,800.0	9,719.3	1,058.4	1,003.8	19.385	SF
Morgan Hills 1B-7H-A168 - HZ - Plan #2	8,200.0	9,362.4	1,011.4	964.7	21.630	ES
Morgan Hills 1B-7H-A168 - HZ - Plan #2	8,232.0	9,330.5	1,011.2	965.1	21.911	CC
Morgan Hills 1C-7H-A168 - HZ - Plan #2	8,050.0	9,226.4	1,327.0	1,279.8	28.076	ES
Morgan Hills 1C-7H-A168 - HZ - Plan #2	8,137.9	9,141.6	1,326.5	1,280.2	28.671	CC
Morgan Hills 1C-7H-A168 - HZ - Plan #2	10,200.0	7,550.0	1,498.9	1,441.2	25.986	SF
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	250.0	338.0	202.3	201.3	201.512	CC, ES
WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR	10,300.0	7,828.0	2,986.6	2,924.4	48.052	SF
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,352.4	7,803.0	468.4	421.9	10.079	CC, ES
WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GYRO	9,400.0	7,804.2	470.8	423.6	9.967	SF
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	6,700.0	6,827.8	219.3	180.2	5.619	ES
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	6,707.5	6,835.1	219.3	180.3	5.621	CC
WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVE	7,789.3	7,845.5	232.4	189.2	5.385	SF
WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE	4,546.4	4,849.1	52.8	14.3	1.373	Level 3, CC, ES, SF
WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE	9,905.7	7,871.9	98.2	39.5	1.672	CC, ES, SF
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,480.6	7,789.0	1,249.2	1,215.8	37.371	CC
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	8,500.0	7,789.0	1,249.3	1,215.7	37.100	ES
WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO SU	9,200.0	7,789.0	1,441.5	1,397.5	32.769	SF
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	3,630.0	3,583.3	878.8	859.5	45.550	CC
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	3,700.0	3,647.2	879.1	859.4	44.595	ES
WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - GY	8,900.0	7,796.4	990.4	951.0	25.145	SF
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	200.0	200.0	59.9	59.2	91.758	CC, ES
Woolley-Becky 2A-7H-E168 - Hz - Plan #2	14,844.9	14,682.3	2,115.3	1,861.7	8.340	SF
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	250.0	250.0	49.8	49.0	60.221	CC, ES
Woolley-Becky 2B-7H-E168 - Hz - Plan #2	14,844.9	14,422.4	1,756.8	1,505.5	6.990	SF
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	250.0	250.0	39.7	38.9	48.042	CC, ES
Woolley-Becky 2C-7H-E168 - Hz - Plan #4	14,844.9	14,568.1	1,373.6	1,121.0	5.437	SF
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	250.0	250.0	29.9	29.1	36.202	CC, ES
Woolley-Becky 2D-7H-E168 - Hz - Plan #4	14,844.9	14,455.0	1,077.2	829.5	4.349	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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills)						
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	250.0	250.0	19.9	19.0	24.024	CC, ES
Woolley-Becky 2E-7H-E168 - Hz - Plan #2	14,844.9	14,696.1	700.1	446.2	2.757	SF
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	250.0	250.0	9.8	9.0	11.841	CC, ES
Woolley-Becky 2F-7H-E168 - Hz - Plan #3	14,844.9	14,335.9	424.4	213.4	2.011	SF
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	200.0	200.0	10.1	9.4	15.436	CC, ES
Woolley-Becky 2H-7H-E168 - Hz - Plan #3	14,700.0	14,557.9	379.7	185.4	1.955	SF
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	250.0	250.0	119.8	119.0	144.800	CC, ES
Woolley-Sosa 2B-7H-E168 - HZ - Plan #2	10,200.0	7,122.3	2,758.0	2,699.5	47.119	SF
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	250.0	250.0	110.0	109.2	132.959	CC, ES
Woolley-Sosa 2C-7H-E168 - HZ - Plan #2	9,400.0	7,400.0	1,902.7	1,855.4	40.249	SF
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	250.0	250.0	99.9	99.1	120.780	CC, ES
Woolley-Sosa 2D-7H-E168 - HZ - Plan #2	6,900.0	6,810.9	1,176.7	1,142.3	34.226	SF
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	250.0	250.0	89.8	89.0	108.599	CC, ES
Woolley-Sosa 2E-7H-E168 - HZ - Plan #3	7,100.0	7,049.9	1,018.2	979.7	26.402	SF
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	250.0	250.0	79.8	78.9	96.419	CC, ES
Woolley-Sosa 2F-7H-E168 - HZ - Plan #2	7,600.3	7,906.7	338.4	311.3	12.465	SF
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	7,930.9	7,975.1	50.6	21.8	1.758	CC, ES
Woolley-Sosa 2G-7H-E168 - HZ - Plan #2	7,950.0	7,965.7	53.3	22.9	1.753	SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV										Offset Site Error:		0.0 ft	
Survey Program: 100-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	14.32	3,648.3	931.0	3,765.3				
100.0	100.0	72.5	72.5	0.2	0.1	14.32	3,648.2	931.1	3,765.2	3,764.9	0.28	N/A	
171.9	171.9	140.8	140.8	0.3	0.2	14.32	3,648.1	931.3	3,765.1	3,764.6	0.52	7,197.325	
200.0	200.0	165.9	165.9	0.3	0.3	14.32	3,648.1	931.3	3,765.1	3,764.5	0.62	6,112.745	
250.0	250.0	211.8	211.8	0.4	0.4	14.32	3,648.2	931.2	3,765.2	3,764.4	0.78	4,806.743	
300.0	300.0	261.9	261.9	0.5	0.5	-85.69	3,648.4	930.8	3,765.3	3,764.3	0.96	3,929.262	
400.0	400.0	374.1	374.1	0.7	0.7	-85.74	3,648.8	929.5	3,765.2	3,763.9	1.33	2,826.878	
500.0	499.9	462.7	462.7	0.9	0.8	-85.81	3,649.1	928.0	3,764.9	3,763.2	1.67	2,253.539	
534.1	534.0	490.0	489.9	0.9	0.9	-85.84	3,649.3	927.5	3,764.9	3,763.1	1.78	2,110.190	
600.0	599.8	535.4	535.3	1.1	0.9	-85.89	3,649.8	926.7	3,765.0	3,763.0	1.99	1,891.474	
700.0	699.5	600.0	599.9	1.3	1.1	-85.97	3,650.9	925.8	3,765.8	3,763.5	2.31	1,630.996	
800.0	799.2	666.5	666.4	1.5	1.2	-86.06	3,652.7	924.9	3,767.5	3,764.8	2.65	1,422.816	
900.0	898.6	734.5	734.3	1.7	1.3	-86.17	3,655.1	923.8	3,769.9	3,766.9	3.01	1,252.854	
1,000.0	997.9	808.8	808.6	2.0	1.4	-86.31	3,658.5	922.4	3,773.0	3,769.6	3.40	1,108.520	
1,100.0	1,096.9	916.6	916.3	2.3	1.6	-86.55	3,663.5	920.1	3,776.3	3,772.4	3.88	972.406	
1,200.0	1,195.7	1,016.5	1,016.0	2.6	1.8	-86.81	3,668.1	917.8	3,779.4	3,775.0	4.37	864.113	
1,300.0	1,294.1	1,121.8	1,121.2	2.9	2.0	-87.10	3,672.7	915.8	3,782.3	3,777.4	4.90	772.132	
1,400.0	1,392.3	1,216.4	1,215.6	3.3	2.2	-87.38	3,676.7	914.3	3,785.3	3,779.8	5.43	696.917	
1,500.0	1,490.1	1,328.1	1,327.3	3.7	2.4	-87.74	3,681.3	912.5	3,788.1	3,782.1	6.02	628.901	
1,600.0	1,587.5	1,434.4	1,433.5	4.1	2.6	-88.12	3,685.2	910.7	3,790.7	3,784.0	6.64	571.234	
1,700.0	1,684.6	1,525.1	1,524.1	4.5	2.8	-88.46	3,688.7	908.8	3,793.3	3,786.1	7.25	523.172	
1,750.0	1,732.9	1,568.6	1,567.6	4.8	2.9	-88.63	3,690.4	908.0	3,794.8	3,787.2	7.56	501.853	
1,800.0	1,781.2	1,615.7	1,614.7	5.0	3.0	-86.96	3,692.2	907.4	3,796.1	3,788.3	7.88	481.775	
1,900.0	1,877.8	1,722.8	1,721.6	5.5	3.2	-83.66	3,696.1	906.4	3,797.5	3,788.9	8.54	444.782	
1,981.2	1,956.2	1,795.0	1,793.8	5.9	3.3	-80.93	3,698.7	905.6	3,797.4	3,788.3	9.05	419.728	
2,000.0	1,974.4	1,812.2	1,811.0	6.0	3.3	-81.00	3,699.3	905.4	3,797.3	3,788.1	9.17	414.273	
2,100.0	2,071.3	1,906.4	1,905.2	6.4	3.5	-81.36	3,702.8	904.7	3,797.0	3,787.2	9.78	388.334	
2,181.5	2,150.7	2,009.4	2,008.0	6.7	3.7	-81.73	3,706.2	904.6	3,796.9	3,786.6	10.30	368.480	
2,200.0	2,168.6	2,030.8	2,029.4	6.8	3.7	-81.80	3,706.9	904.6	3,796.8	3,786.4	10.42	364.373	
2,300.0	2,266.1	2,167.8	2,166.4	7.3	4.0	-82.27	3,710.2	904.7	3,796.2	3,785.1	11.09	342.459	
2,400.0	2,363.5	2,264.2	2,262.8	7.7	4.1	-82.59	3,711.8	904.9	3,794.8	3,783.1	11.68	324.870	
2,500.0	2,461.0	2,406.0	2,404.6	8.1	4.4	-83.07	3,713.9	905.5	3,793.5	3,781.2	12.35	307.054	
2,600.0	2,558.4	2,500.0	2,498.6	8.6	4.5	-83.37	3,714.4	906.2	3,791.5	3,778.6	12.95	292.849	
2,700.0	2,655.8	2,584.4	2,583.0	9.0	4.7	-83.65	3,715.1	906.6	3,789.8	3,776.3	13.53	280.193	
2,800.0	2,753.3	2,677.6	2,676.2	9.4	4.8	-83.97	3,716.2	906.5	3,788.5	3,774.4	14.12	268.299	
2,900.0	2,850.7	2,801.5	2,800.1	9.9	5.1	-84.41	3,717.5	905.7	3,787.2	3,772.4	14.77	256.378	
3,000.0	2,948.2	2,928.4	2,926.9	10.3	5.3	-84.86	3,717.8	903.8	3,785.1	3,769.6	15.43	245.312	
3,100.0	3,045.6	3,025.4	3,023.9	10.7	5.4	-85.21	3,717.6	902.3	3,782.7	3,766.7	16.03	235.909	
3,200.0	3,143.0	3,107.2	3,105.7	11.2	5.6	-85.51	3,717.7	901.3	3,780.9	3,764.2	16.61	227.589	
3,300.0	3,240.5	3,208.3	3,206.8	11.6	5.8	-85.87	3,717.9	900.3	3,779.2	3,762.0	17.23	219.404	
3,400.0	3,337.9	3,314.4	3,312.9	12.0	5.9	-86.25	3,718.0	898.8	3,777.6	3,759.8	17.85	211.668	
3,500.0	3,435.3	3,433.3	3,431.8	12.5	6.1	-86.68	3,717.6	896.9	3,775.7	3,757.2	18.49	204.185	
3,600.0	3,532.8	3,527.3	3,525.8	12.9	6.3	-87.02	3,717.0	895.8	3,773.7	3,754.6	19.09	197.664	
3,700.0	3,630.2	3,600.0	3,598.5	13.3	6.4	-87.28	3,716.7	895.0	3,772.1	3,752.4	19.65	191.920	
3,800.0	3,727.7	3,678.0	3,676.4	13.8	6.6	-87.56	3,716.9	893.9	3,771.2	3,751.0	20.23	186.438	
3,900.0	3,825.1	3,793.1	3,791.5	14.2	6.8	-87.99	3,717.5	891.6	3,770.8	3,750.0	20.87	180.702	
4,000.0	3,922.5	3,879.4	3,877.8	14.6	6.9	-88.31	3,717.8	889.5	3,770.3	3,748.8	21.46	175.723	
4,075.9	3,996.5	3,945.9	3,944.3	15.0	7.0	-88.56	3,718.2	888.0	3,770.2	3,748.3	21.90	172.117	
4,100.0	4,020.0	3,967.3	3,965.7	15.1	7.1	-88.64	3,718.3	887.5	3,770.2	3,748.1	22.05	171.001	
4,200.0	4,117.4	4,072.2	4,070.6	15.5	7.3	-89.04	3,719.1	884.6	3,770.3	3,747.6	22.67	166.318	
4,300.0	4,214.9	4,163.5	4,161.8	16.0	7.4	-89.39	3,719.5	882.2	3,770.4	3,747.2	23.27	162.054	
4,400.0	4,312.3	4,252.7	4,251.0	16.4	7.6	-89.73	3,720.2	879.9	3,771.0	3,747.1	23.86	158.057	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV												Offset Site Error: 0.0 ft			
Survey Program: 100-MWD														Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
4,500.0	4,409.7	4,360.4	4,358.7	16.8	7.8	-90.13	3,721.1	878.2	3,771.8	3,747.3	24.48	154.069			
4,600.0	4,507.2	4,446.8	4,445.0	17.3	7.9	-90.44	3,721.5	876.9	3,772.4	3,747.3	25.07	150.495			
4,700.0	4,604.6	4,528.3	4,526.5	17.7	8.1	-90.74	3,722.5	875.5	3,773.8	3,748.2	25.64	147.164			
4,800.0	4,702.0	4,636.0	4,634.2	18.1	8.3	-91.13	3,723.6	873.9	3,775.2	3,749.0	26.26	143.741			
4,900.0	4,799.5	4,728.3	4,726.5	18.6	8.4	-91.46	3,724.6	872.6	3,776.9	3,750.0	26.86	140.624			
5,000.0	4,896.9	4,825.5	4,823.7	19.0	8.6	-91.81	3,725.5	871.4	3,778.6	3,751.1	27.46	137.607			
5,100.0	4,994.4	4,900.0	4,898.2	19.4	8.7	-92.08	3,726.6	870.6	3,780.9	3,752.8	28.02	134.929			
5,200.0	5,091.8	4,994.9	4,993.0	19.9	8.9	-92.41	3,728.3	869.9	3,783.6	3,755.0	28.62	132.218			
5,300.0	5,189.2	5,090.3	5,088.5	20.3	9.1	-92.75	3,730.0	869.2	3,786.5	3,757.3	29.21	129.622			
5,400.0	5,286.7	5,187.0	5,185.1	20.8	9.2	-93.09	3,731.8	868.1	3,789.6	3,759.8	29.81	127.125			
5,500.0	5,384.1	5,293.1	5,291.2	21.2	9.4	-93.47	3,733.6	866.5	3,792.7	3,762.3	30.42	124.668			
5,600.0	5,481.6	5,391.2	5,389.2	21.6	9.6	-93.82	3,735.1	865.1	3,795.8	3,764.8	31.02	122.363			
5,700.0	5,579.0	5,486.3	5,484.3	22.1	9.8	-94.16	3,736.6	863.9	3,799.1	3,767.5	31.61	120.178			
5,800.0	5,676.4	5,571.7	5,569.7	22.5	9.9	-94.46	3,738.1	862.9	3,802.7	3,770.5	32.19	118.138			
5,900.0	5,773.9	5,682.0	5,680.0	22.9	10.1	-94.86	3,740.1	861.2	3,806.6	3,773.8	32.80	116.041			
6,000.0	5,871.3	5,773.1	5,771.1	23.4	10.3	-95.18	3,741.5	860.2	3,810.3	3,776.9	33.39	114.127			
6,100.0	5,968.7	5,863.2	5,861.1	23.8	10.4	-95.50	3,743.2	859.0	3,814.4	3,780.5	33.97	112.297			
6,200.0	6,066.2	5,954.8	5,952.7	24.3	10.6	-95.83	3,744.9	857.2	3,818.9	3,784.3	34.55	110.530			
6,300.0	6,163.6	6,045.7	6,043.6	24.7	10.8	-96.16	3,746.8	855.3	3,823.6	3,788.4	35.13	108.841			
6,400.0	6,261.1	6,170.8	6,168.6	25.1	11.0	-96.59	3,749.4	854.1	3,828.4	3,792.6	35.76	107.056			
6,500.0	6,358.5	6,268.5	6,266.4	25.6	11.2	-96.92	3,750.8	853.8	3,832.6	3,796.2	36.35	105.446			
6,600.0	6,455.9	6,346.3	6,344.1	26.0	11.3	-97.17	3,752.3	854.5	3,837.3	3,800.4	36.90	103.993			
6,700.0	6,553.4	6,434.5	6,432.3	26.5	11.5	-97.44	3,754.6	856.1	3,842.6	3,805.2	37.47	102.557			
6,800.0	6,650.8	6,531.3	6,529.0	26.9	11.6	-97.74	3,756.9	857.5	3,847.9	3,809.9	38.05	101.128			
6,900.0	6,748.3	6,600.0	6,597.7	27.3	11.8	-97.95	3,758.9	858.2	3,853.9	3,815.3	38.59	99.871			
7,000.0	6,845.7	6,719.0	6,716.6	27.8	12.0	-98.33	3,762.2	859.0	3,859.9	3,820.7	39.20	98.461			
7,100.0	6,943.1	6,800.0	6,797.6	28.2	12.1	-98.59	3,764.6	859.2	3,866.2	3,826.5	39.76	97.244			
7,200.0	7,040.6	6,909.6	6,907.2	28.6	12.3	-98.94	3,767.9	859.5	3,872.8	3,832.4	40.35	95.968			
7,300.0	7,138.0	7,082.3	7,079.8	29.1	12.6	-99.49	3,770.5	860.4	3,877.7	3,836.7	41.04	94.480			
7,341.8	7,178.7	7,121.9	7,119.5	29.3	12.7	-99.61	3,770.9	860.9	3,879.6	3,838.3	41.28	93.978			
7,350.0	7,186.7	7,128.5	7,126.1	29.3	12.7	-96.07	3,770.9	860.9	3,879.9	3,838.6	41.33	93.880			
7,400.0	7,235.4	7,168.8	7,166.4	29.5	12.8	-75.82	3,771.3	861.3	3,879.5	3,838.0	41.46	93.561			
7,450.0	7,283.6	7,214.1	7,211.6	29.7	12.8	-60.32	3,771.9	861.5	3,874.8	3,833.5	41.35	93.709			
7,500.0	7,331.0	7,276.7	7,274.2	29.9	12.9	-49.82	3,772.4	861.6	3,865.8	3,824.8	41.01	94.276			
7,550.0	7,377.4	7,325.1	7,322.6	30.1	13.0	-42.83	3,772.7	861.5	3,852.6	3,812.2	40.39	95.374			
7,600.0	7,422.2	7,364.4	7,361.9	30.3	13.1	-38.13	3,773.0	861.4	3,835.3	3,795.7	39.54	97.007			
7,650.0	7,465.2	7,400.0	7,397.5	30.5	13.2	-34.99	3,773.2	861.2	3,814.2	3,775.7	38.46	99.181			
7,700.0	7,506.0	7,441.3	7,438.8	30.7	13.2	-32.99	3,773.6	860.9	3,789.3	3,752.1	37.19	101.887			
7,750.0	7,544.4	7,477.9	7,475.5	30.9	13.3	-31.82	3,773.9	860.7	3,760.9	3,725.2	35.76	105.182			
7,800.0	7,580.0	7,513.0	7,510.5	31.1	13.4	-31.36	3,774.2	860.6	3,729.2	3,695.0	34.20	109.056			
7,850.0	7,612.6	7,546.7	7,544.2	31.3	13.4	-31.56	3,774.6	860.6	3,694.4	3,661.8	32.56	113.465			
7,900.0	7,641.9	7,577.2	7,574.7	31.5	13.5	-32.43	3,774.9	860.7	3,656.7	3,625.8	30.91	118.283			
7,950.0	7,667.7	7,600.0	7,597.5	31.7	13.5	-34.01	3,775.2	861.0	3,616.5	3,587.1	29.34	123.252			
8,000.0	7,689.8	7,618.8	7,616.3	32.0	13.5	-36.52	3,775.5	861.2	3,574.0	3,546.0	27.97	127.763			
8,050.0	7,708.0	7,632.1	7,629.6	32.2	13.6	-40.30	3,775.7	861.3	3,529.6	3,502.6	26.98	130.827			
8,100.0	7,722.3	7,642.7	7,640.2	32.4	13.6	-46.01	3,775.8	861.5	3,483.6	3,457.0	26.61	130.905			
8,150.0	7,732.4	7,650.5	7,648.0	32.7	13.6	-54.76	3,776.0	861.5	3,436.4	3,409.2	27.16	126.501			
8,200.0	7,738.3	7,655.4	7,652.9	33.0	13.6	-68.24	3,776.1	861.6	3,388.2	3,359.5	28.74	117.875			
8,244.9	7,740.0	7,657.2	7,654.7	33.2	13.6	-85.61	3,776.1	861.6	3,344.6	3,314.2	30.36	110.156			
8,300.0	7,740.0	7,657.9	7,655.4	33.5	13.6	-85.67	3,776.1	861.6	3,290.7	3,259.7	30.99	106.193			
8,400.0	7,740.0	7,659.3	7,656.8	34.1	13.6	-85.78	3,776.1	861.6	3,193.1	3,160.9	32.20	99.173			
8,500.0	7,740.0	7,660.7	7,658.2	34.8	13.6	-85.89	3,776.2	861.6	3,095.7	3,062.2	33.49	92.440			

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,600.0	7,740.0	7,662.1	7,659.6	35.6	13.6	-86.01	3,776.2	861.6	2,998.5	2,963.6	34.85	86.048	
8,700.0	7,740.0	7,663.5	7,661.0	36.5	13.6	-86.12	3,776.2	861.7	2,901.4	2,865.1	36.26	80.019	
8,800.0	7,740.0	7,665.0	7,662.5	37.4	13.6	-86.24	3,776.2	861.7	2,804.5	2,766.8	37.72	74.358	
8,900.0	7,740.0	7,666.4	7,663.9	38.3	13.6	-86.36	3,776.3	861.7	2,707.9	2,668.7	39.21	69.057	
9,000.0	7,740.0	7,667.9	7,665.4	39.4	13.6	-86.48	3,776.3	861.7	2,611.5	2,570.8	40.74	64.103	
9,100.0	7,740.0	7,669.5	7,667.0	40.4	13.6	-86.60	3,776.3	861.7	2,515.4	2,473.1	42.29	59.475	
9,200.0	7,740.0	7,671.0	7,668.5	41.6	13.6	-86.73	3,776.4	861.7	2,419.7	2,375.8	43.87	55.155	
9,300.0	7,740.0	7,672.6	7,670.1	42.7	13.6	-86.86	3,776.4	861.7	2,324.2	2,278.8	45.47	51.120	
9,400.0	7,740.0	7,674.3	7,671.7	43.9	13.6	-86.99	3,776.4	861.8	2,229.2	2,182.1	47.08	47.351	
9,500.0	7,740.0	7,675.9	7,673.4	45.2	13.6	-87.12	3,776.5	861.8	2,134.6	2,085.9	48.71	43.827	
9,600.0	7,740.0	7,677.6	7,675.1	46.4	13.6	-87.26	3,776.5	861.8	2,040.6	1,990.2	50.35	40.532	
9,700.0	7,740.0	7,679.3	7,676.8	47.7	13.6	-87.39	3,776.5	861.8	1,947.1	1,895.1	52.00	37.448	
9,800.0	7,740.0	7,681.0	7,678.5	49.1	13.6	-87.53	3,776.6	861.8	1,854.3	1,800.7	53.66	34.560	
9,900.0	7,740.0	7,682.8	7,680.3	50.4	13.7	-87.68	3,776.6	861.8	1,762.3	1,707.0	55.32	31.855	
10,000.0	7,740.0	7,684.6	7,682.1	51.8	13.7	-87.82	3,776.7	861.9	1,671.3	1,614.3	57.00	29.321	
10,100.0	7,740.0	7,686.5	7,683.9	53.2	13.7	-87.97	3,776.7	861.9	1,581.3	1,522.6	58.68	26.946	
10,200.0	7,740.0	7,688.3	7,685.8	54.6	13.7	-88.12	3,776.7	861.9	1,492.5	1,432.2	60.37	24.723	
10,300.0	7,740.0	7,690.2	7,687.7	56.1	13.7	-88.28	3,776.8	861.9	1,405.3	1,343.2	62.06	22.643	
10,400.0	7,740.0	7,692.2	7,689.7	57.6	13.7	-88.44	3,776.8	861.9	1,319.9	1,256.1	63.76	20.700	
10,500.0	7,740.0	7,700.0	7,697.5	59.0	13.7	-89.07	3,777.0	862.0	1,236.7	1,171.2	65.49	18.884	
10,600.0	7,740.0	7,700.0	7,697.5	60.5	13.7	-89.07	3,777.0	862.0	1,156.1	1,088.9	67.19	17.207	
10,700.0	7,740.0	7,700.0	7,697.5	62.0	13.7	-89.07	3,777.0	862.0	1,078.8	1,009.9	68.89	15.660	
10,800.0	7,740.0	7,700.0	7,697.5	63.5	13.7	-89.07	3,777.0	862.0	1,005.5	934.9	70.59	14.243	
10,900.0	7,740.0	7,700.0	7,697.5	65.1	13.7	-89.07	3,777.0	862.0	937.1	864.8	72.30	12.961	
11,000.0	7,740.0	7,704.9	7,702.4	66.6	13.7	-89.46	3,777.1	862.0	874.8	800.8	74.03	11.818	
11,100.0	7,740.0	7,707.1	7,704.6	68.2	13.7	-89.64	3,777.2	862.0	820.0	744.3	75.74	10.826	
11,200.0	7,740.0	7,709.3	7,706.8	69.7	13.7	-89.82	3,777.2	862.1	774.4	696.9	77.47	9.996	
11,300.0	7,740.0	7,711.5	7,709.0	71.3	13.7	-90.00	3,777.3	862.1	739.4	660.3	79.19	9.338	
11,400.0	7,740.0	7,713.7	7,711.2	72.9	13.7	-90.18	3,777.3	862.1	716.9	636.0	80.91	8.860	
11,500.0	7,740.0	7,715.8	7,713.3	74.5	13.7	-90.35	3,777.4	862.1	707.8	625.2	82.64	8.566	
11,514.4	7,740.0	7,716.2	7,713.6	74.7	13.7	-90.38	3,777.4	862.1	707.7	624.8	82.88	8.538 CC, ES	
11,600.0	7,740.0	7,718.0	7,715.5	76.1	13.7	-90.53	3,777.4	862.1	712.8	628.5	84.36	8.450 SF	
11,700.0	7,740.0	7,720.1	7,717.6	77.7	13.7	-90.70	3,777.5	862.1	731.6	645.5	86.09	8.499	
11,800.0	7,740.0	7,722.3	7,719.8	79.3	13.7	-90.87	3,777.5	862.1	763.1	675.3	87.81	8.690	
11,900.0	7,740.0	7,724.4	7,721.9	80.9	13.7	-91.04	3,777.6	862.1	805.9	716.3	89.54	9.000	
12,000.0	7,740.0	7,726.5	7,724.0	82.5	13.7	-91.21	3,777.6	862.2	858.2	766.9	91.27	9.403	
12,100.0	7,740.0	7,728.6	7,726.1	84.2	13.7	-91.38	3,777.7	862.2	918.5	825.5	92.99	9.877	
12,200.0	7,740.0	7,730.7	7,728.2	85.8	13.7	-91.55	3,777.7	862.2	985.2	890.5	94.72	10.401	
12,300.0	7,740.0	7,732.8	7,730.3	87.4	13.7	-91.72	3,777.8	862.2	1,057.2	960.8	96.45	10.961	
12,400.0	7,740.0	7,734.8	7,732.3	89.1	13.7	-91.89	3,777.8	862.2	1,133.4	1,035.3	98.18	11.545	
12,500.0	7,740.0	7,736.9	7,734.4	90.7	13.7	-92.05	3,777.9	862.2	1,213.2	1,113.2	99.90	12.143	
12,600.0	7,740.0	7,739.0	7,736.4	92.4	13.8	-92.22	3,777.9	862.2	1,295.7	1,194.0	101.63	12.749	
12,700.0	7,740.0	7,741.0	7,738.5	94.0	13.8	-92.38	3,778.0	862.2	1,380.5	1,277.1	103.36	13.357	
12,800.0	7,740.0	7,743.0	7,740.5	95.7	13.8	-92.55	3,778.0	862.2	1,467.2	1,362.1	105.08	13.963	
12,900.0	7,740.0	7,745.0	7,742.5	97.3	13.8	-92.71	3,778.0	862.2	1,555.6	1,448.7	106.81	14.564	
13,000.0	7,740.0	7,747.0	7,744.5	99.0	13.8	-92.87	3,778.1	862.2	1,645.2	1,536.7	108.53	15.159	
13,100.0	7,740.0	7,749.0	7,746.5	100.7	13.8	-93.03	3,778.1	862.3	1,736.0	1,625.7	110.26	15.745	
13,200.0	7,740.0	7,751.0	7,748.5	102.3	13.8	-93.20	3,778.2	862.3	1,827.7	1,715.8	111.98	16.322	
13,300.0	7,740.0	7,753.0	7,750.5	104.0	13.8	-93.35	3,778.2	862.3	1,920.3	1,806.6	113.70	16.889	
13,400.0	7,740.0	7,755.0	7,752.4	105.7	13.8	-93.51	3,778.3	862.3	2,013.6	1,898.2	115.42	17.445	
13,500.0	7,740.0	7,756.9	7,754.4	107.3	13.8	-93.67	3,778.3	862.3	2,107.5	1,990.3	117.15	17.990	
13,600.0	7,740.0	7,758.9	7,756.3	109.0	13.8	-93.83	3,778.4	862.3	2,201.9	2,083.1	118.87	18.524	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 1 (EXISTING) - ENCANA WELL - SURV													Offset Site Error: 0.0 ft
Survey Program: 100-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,700.0	7,740.0	7,760.8	7,758.3	110.7	13.8	-93.98	3,778.4	862.3	2,296.8	2,176.2	120.58	19.047	
13,800.0	7,740.0	7,762.7	7,760.2	112.4	13.8	-94.14	3,778.4	862.3	2,392.1	2,269.8	122.30	19.559	
13,900.0	7,740.0	7,764.7	7,762.1	114.1	13.8	-94.29	3,778.5	862.3	2,487.8	2,363.8	124.02	20.060	
14,000.0	7,740.0	7,766.6	7,764.0	115.8	13.8	-94.45	3,778.5	862.3	2,583.8	2,458.1	125.74	20.549	
14,100.0	7,740.0	7,768.5	7,765.9	117.5	13.8	-94.60	3,778.6	862.3	2,680.1	2,552.6	127.45	21.028	
14,200.0	7,740.0	7,770.4	7,767.8	119.2	13.8	-94.75	3,778.6	862.3	2,776.7	2,647.5	129.17	21.497	
14,300.0	7,740.0	7,772.2	7,769.7	120.8	13.8	-94.90	3,778.6	862.3	2,873.4	2,742.6	130.88	21.955	
14,400.0	7,740.0	7,774.1	7,771.6	122.5	13.8	-95.06	3,778.7	862.3	2,970.4	2,837.9	132.59	22.403	
14,500.0	7,740.0	7,776.0	7,773.4	124.2	13.8	-95.20	3,778.7	862.3	3,067.6	2,933.3	134.30	22.841	
14,600.0	7,740.0	7,777.8	7,775.3	125.9	13.8	-95.35	3,778.8	862.3	3,165.0	3,029.0	136.01	23.270	
14,700.0	7,740.0	7,779.7	7,777.1	127.6	13.8	-95.50	3,778.8	862.3	3,262.5	3,124.8	137.72	23.689	
14,800.0	7,740.0	7,781.5	7,779.0	129.3	13.8	-95.65	3,778.8	862.3	3,360.2	3,220.8	139.43	24.100	
14,844.9	7,740.0	7,782.3	7,779.8	130.1	13.8	-95.72	3,778.9	862.3	3,404.0	3,263.9	140.19	24.281	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 765-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	14.62	3,670.8	957.9	3,793.8					
100.0	100.0	85.0	85.0	0.2	0.1	14.62	3,670.8	957.9	3,793.8	3,793.5	0.30	N/A		
200.0	200.0	185.0	185.0	0.3	0.3	14.62	3,670.8	957.9	3,793.8	3,793.1	0.64	5,904.443		
250.0	250.0	235.0	235.0	0.4	0.4	14.62	3,670.8	957.9	3,793.8	3,792.9	0.82	4,653.584		
300.0	300.0	285.0	285.0	0.5	0.5	-85.38	3,670.8	957.9	3,793.7	3,792.8	0.99	3,839.828		
400.0	400.0	385.0	385.0	0.7	0.7	-85.41	3,670.8	957.9	3,793.6	3,792.3	1.34	2,840.769		
500.0	499.9	484.9	484.9	0.9	0.8	-85.46	3,670.8	957.9	3,793.3	3,791.6	1.69	2,246.723		
600.0	599.8	584.8	584.8	1.1	1.0	-85.54	3,670.8	957.9	3,792.9	3,790.9	2.05	1,849.725		
700.0	699.5	684.5	684.5	1.3	1.2	-85.65	3,670.8	957.9	3,792.4	3,790.0	2.43	1,563.666		
800.0	799.2	780.3	780.3	1.5	1.3	-85.79	3,670.9	957.9	3,791.7	3,788.9	2.81	1,349.483		
900.0	898.6	873.4	873.4	1.7	1.5	-85.95	3,671.2	957.5	3,791.2	3,788.0	3.21	1,180.461		
1,000.0	997.9	978.3	978.3	2.0	1.7	-86.16	3,671.3	956.8	3,790.3	3,786.7	3.66	1,036.888		
1,070.6	1,067.8	1,012.0	1,012.0	2.2	1.7	-86.24	3,671.6	956.3	3,790.0	3,786.1	3.91	968.134		
1,100.0	1,096.9	1,034.1	1,034.1	2.3	1.8	-86.29	3,671.9	955.9	3,790.1	3,786.0	4.04	938.723		
1,200.0	1,195.7	1,074.0	1,074.0	2.6	1.8	-86.39	3,672.9	954.7	3,791.0	3,786.6	4.42	858.279		
1,300.0	1,294.1	1,137.0	1,136.8	2.9	2.0	-86.59	3,675.7	951.9	3,793.3	3,788.5	4.87	779.440		
1,400.0	1,392.3	1,225.6	1,225.0	3.3	2.1	-86.92	3,681.0	945.6	3,796.5	3,791.1	5.40	702.934		
1,500.0	1,490.1	1,325.0	1,323.8	3.7	2.3	-87.36	3,687.1	935.7	3,799.4	3,793.4	6.00	633.246		
1,600.0	1,587.5	1,393.7	1,391.8	4.1	2.5	-87.69	3,692.0	927.5	3,803.0	3,796.4	6.58	577.958		
1,700.0	1,684.6	1,496.3	1,493.1	4.5	2.8	-88.25	3,699.5	913.1	3,806.7	3,799.4	7.29	522.155		
1,750.0	1,732.9	1,558.8	1,554.7	4.8	3.0	-88.62	3,704.3	903.6	3,808.7	3,801.0	7.69	495.133		
1,800.0	1,781.2	1,592.2	1,587.6	5.0	3.0	-86.96	3,706.7	898.5	3,810.5	3,802.5	8.02	475.269		
1,900.0	1,877.8	1,638.6	1,633.3	5.5	3.2	-83.51	3,710.4	891.7	3,813.8	3,805.2	8.61	442.765		
1,981.2	1,956.2	1,718.4	1,712.0	5.9	3.4	-80.97	3,717.2	879.5	3,815.9	3,806.7	9.23	413.507		
2,000.0	1,974.4	1,732.1	1,725.4	6.0	3.5	-81.06	3,718.4	877.3	3,816.3	3,806.9	9.36	407.760		
2,100.0	2,071.3	1,806.8	1,798.7	6.4	3.7	-81.56	3,725.3	864.4	3,819.1	3,809.0	10.04	380.311		
2,181.5	2,150.7	1,856.1	1,846.9	6.7	3.9	-81.90	3,730.1	855.7	3,822.3	3,811.7	10.55	362.250		
2,200.0	2,168.6	1,866.1	1,856.7	6.8	3.9	-81.96	3,731.1	853.9	3,823.1	3,812.4	10.66	358.524		
2,300.0	2,266.1	1,923.3	1,912.6	7.3	4.1	-82.31	3,737.3	843.5	3,828.5	3,817.2	11.28	339.301		
2,400.0	2,363.5	2,012.0	1,999.3	7.7	4.5	-82.86	3,747.3	827.3	3,834.8	3,822.7	12.01	319.169		
2,500.0	2,461.0	2,074.0	2,059.7	8.1	4.7	-83.24	3,754.5	815.4	3,841.7	3,829.0	12.67	303.141		
2,600.0	2,558.4	2,147.0	2,130.5	8.6	5.0	-83.72	3,763.7	800.2	3,849.8	3,836.4	13.38	287.688		
2,700.0	2,655.8	2,339.1	2,316.7	9.0	5.8	-84.97	3,786.6	759.2	3,858.3	3,843.7	14.57	264.856		
2,800.0	2,753.3	2,409.5	2,384.8	9.4	6.2	-85.44	3,793.9	743.0	3,865.2	3,849.9	15.29	252.860		
2,900.0	2,850.7	2,470.3	2,443.8	9.9	6.4	-85.84	3,800.7	729.5	3,873.4	3,857.5	15.96	242.652		
3,000.0	2,948.2	2,537.7	2,509.0	10.3	6.7	-86.28	3,808.5	714.7	3,882.6	3,865.9	16.66	232.993		
3,100.0	3,045.6	2,598.5	2,567.9	10.7	7.0	-86.68	3,816.0	701.5	3,892.9	3,875.6	17.34	224.529		
3,200.0	3,143.0	2,705.8	2,671.9	11.2	7.5	-87.37	3,829.7	678.7	3,904.1	3,886.0	18.19	214.667		
3,300.0	3,240.5	2,800.0	2,763.3	11.6	7.9	-87.96	3,840.8	659.1	3,914.9	3,895.9	18.97	206.319		
3,400.0	3,337.9	2,862.6	2,824.1	12.0	8.2	-88.34	3,848.6	646.6	3,926.7	3,907.1	19.64	199.962		
3,500.0	3,435.3	2,946.0	2,905.2	12.5	8.5	-88.85	3,859.5	630.2	3,939.5	3,919.1	20.37	193.376		
3,600.0	3,532.8	3,017.7	2,974.9	12.9	8.9	-89.28	3,869.0	616.5	3,952.9	3,931.8	21.06	187.736		
3,700.0	3,630.2	3,099.7	3,054.7	13.3	9.2	-89.77	3,880.0	601.0	3,966.9	3,945.1	21.77	182.193		
3,800.0	3,727.7	3,320.0	3,269.3	13.8	10.1	-91.08	3,906.4	558.8	3,979.8	3,956.9	22.96	173.346		
3,900.0	3,825.1	3,383.0	3,330.7	14.2	10.4	-91.45	3,913.0	546.2	3,992.1	3,968.4	23.61	169.081		
4,000.0	3,922.5	3,447.0	3,393.1	14.6	10.7	-91.82	3,920.5	534.3	4,005.6	3,981.4	24.24	165.228		
4,100.0	4,020.0	3,553.1	3,496.9	15.1	11.1	-92.41	3,932.9	515.9	4,019.5	3,994.5	25.00	160.809		
4,200.0	4,117.4	3,670.5	3,611.9	15.5	11.6	-93.05	3,946.3	496.8	4,033.5	4,007.7	25.75	156.613		
4,300.0	4,214.9	3,883.0	3,821.0	16.0	12.3	-94.15	3,965.9	464.9	4,045.2	4,018.4	26.75	151.203		
4,400.0	4,312.3	3,922.6	3,859.9	16.4	12.5	-94.36	3,969.3	458.1	4,057.1	4,029.8	27.30	148.620		
4,500.0	4,409.7	3,944.0	3,880.9	16.8	12.5	-94.48	3,971.3	454.5	4,070.8	4,043.0	27.79	146.467		
4,600.0	4,507.2	4,006.0	3,941.6	17.3	12.8	-94.81	3,978.2	444.0	4,085.9	4,057.5	28.40	143.876		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,700.0	4,604.6	4,050.9	3,985.4	17.7	13.0	-95.06	3,983.7	435.9	4,102.4	4,073.4	28.98	141.573	
4,800.0	4,702.0	4,115.7	4,048.4	18.1	13.3	-95.43	3,992.0	422.6	4,120.1	4,090.4	29.62	139.094	
4,900.0	4,799.5	4,350.4	4,276.1	18.6	14.4	-96.81	4,017.8	371.9	4,136.6	4,105.8	30.81	134.269	
5,000.0	4,896.9	4,574.6	4,494.4	19.0	15.3	-98.10	4,035.7	324.5	4,151.2	4,119.3	31.93	129.992	
5,100.0	4,994.4	4,651.3	4,569.0	19.4	15.7	-98.55	4,040.4	307.7	4,164.5	4,131.9	32.60	127.746	
5,200.0	5,091.8	4,715.3	4,631.6	19.9	15.9	-98.91	4,044.7	294.8	4,178.3	4,145.1	33.21	125.820	
5,300.0	5,189.2	4,752.0	4,667.5	20.3	16.1	-99.11	4,047.6	287.8	4,193.5	4,159.8	33.74	124.295	
5,400.0	5,286.7	4,814.0	4,728.1	20.8	16.3	-99.44	4,053.4	276.2	4,210.1	4,175.8	34.33	122.652	
5,500.0	5,384.1	4,843.4	4,756.9	21.2	16.4	-99.59	4,056.5	270.9	4,228.0	4,193.1	34.83	121.399	
5,600.0	5,481.6	4,876.0	4,788.7	21.6	16.6	-99.75	4,060.4	265.1	4,247.4	4,212.0	35.34	120.201	
5,700.0	5,579.0	4,939.0	4,850.2	22.1	16.8	-100.07	4,068.6	254.0	4,268.0	4,232.1	35.91	118.853	
5,800.0	5,676.4	5,001.0	4,910.6	22.5	17.1	-100.38	4,077.0	243.0	4,289.6	4,253.1	36.49	117.570	
5,900.0	5,773.9	5,095.3	5,002.5	22.9	17.5	-100.84	4,090.2	226.6	4,311.7	4,274.6	37.11	116.174	
6,000.0	5,871.3	5,174.5	5,079.9	23.4	17.8	-101.22	4,101.6	213.7	4,334.2	4,296.5	37.70	114.966	
6,100.0	5,968.7	5,685.0	5,579.9	23.8	19.8	-103.67	4,152.3	126.8	4,355.3	4,316.2	39.18	111.174	
6,200.0	6,066.2	5,730.0	5,624.2	24.3	20.0	-103.89	4,154.7	119.2	4,370.3	4,330.6	39.69	110.108	
6,300.0	6,163.6	5,871.0	5,762.9	24.7	20.5	-104.59	4,161.0	94.2	4,384.9	4,344.5	40.42	108.491	
6,400.0	6,261.1	5,936.0	5,826.8	25.1	20.7	-104.90	4,163.8	82.7	4,400.0	4,359.0	40.97	107.396	
6,500.0	6,358.5	5,998.0	5,887.8	25.6	20.9	-105.20	4,167.2	72.3	4,416.1	4,374.6	41.51	106.395	
6,600.0	6,455.9	6,060.0	5,948.9	26.0	21.1	-105.48	4,171.0	62.3	4,432.9	4,390.9	42.04	105.450	
6,700.0	6,553.4	6,123.0	6,010.9	26.5	21.3	-105.77	4,175.5	52.3	4,450.8	4,408.2	42.57	104.559	
6,800.0	6,650.8	6,275.5	6,161.4	26.9	21.8	-106.43	4,186.4	30.1	4,468.5	4,425.3	43.21	103.420	
6,900.0	6,748.3	6,367.8	6,252.7	27.3	22.1	-106.80	4,193.1	18.4	4,486.0	4,442.3	43.75	102.543	
7,000.0	6,845.7	6,586.9	6,470.0	27.8	22.7	-107.64	4,207.4	-4.9	4,502.7	4,458.3	44.39	101.440	
7,100.0	6,943.1	7,002.0	6,884.0	28.2	23.5	-109.04	4,217.2	-31.0	4,513.4	4,468.3	45.09	100.095	
7,200.0	7,040.6	7,065.0	6,947.0	28.6	23.5	-109.22	4,217.7	-32.0	4,522.2	4,476.7	45.53	99.327	
7,300.0	7,138.0	7,137.4	7,019.4	29.1	23.6	-109.42	4,219.0	-33.0	4,532.0	4,486.0	45.97	98.590	
7,341.8	7,178.7	7,230.7	7,112.7	29.3	23.7	-109.69	4,220.2	-34.2	4,535.9	4,489.7	46.17	98.233	
7,350.0	7,186.7	7,248.9	7,130.9	29.3	23.7	-106.16	4,220.4	-34.5	4,536.6	4,490.4	46.21	98.173	
7,400.0	7,235.4	7,290.7	7,172.7	29.5	23.8	-85.85	4,220.6	-34.9	4,538.2	4,492.0	46.21	98.219	
7,450.0	7,283.6	7,329.0	7,210.9	29.7	23.8	-70.32	4,221.0	-35.1	4,535.8	4,490.0	45.86	98.904	
7,500.0	7,331.0	7,366.5	7,248.5	29.9	23.9	-59.79	4,221.5	-35.3	4,529.5	4,484.3	45.19	100.234	
7,550.0	7,377.4	7,402.4	7,284.4	30.1	23.9	-52.86	4,222.0	-35.5	4,519.3	4,475.0	44.21	102.226	
7,600.0	7,422.2	7,436.7	7,318.7	30.3	24.0	-48.32	4,222.6	-35.7	4,505.2	4,462.2	42.94	104.912	
7,650.0	7,465.2	7,469.7	7,351.7	30.5	24.0	-45.42	4,223.3	-35.9	4,487.4	4,446.0	41.42	108.328	
7,700.0	7,506.0	7,505.0	7,387.0	30.7	24.0	-43.72	4,224.0	-36.2	4,466.1	4,426.4	39.70	112.497	
7,750.0	7,544.4	7,539.1	7,421.1	30.9	24.1	-42.93	4,224.9	-36.4	4,441.2	4,403.4	37.82	117.417	
7,800.0	7,580.0	7,575.8	7,457.7	31.1	24.1	-42.97	4,225.8	-36.4	4,413.1	4,377.2	35.89	122.969	
7,850.0	7,612.6	7,609.7	7,491.6	31.3	24.1	-43.73	4,226.8	-36.3	4,381.9	4,347.9	34.00	128.882	
7,900.0	7,641.9	7,641.2	7,523.1	31.5	24.2	-45.25	4,227.7	-36.0	4,347.8	4,315.5	32.30	134.616	
7,950.0	7,667.7	7,670.4	7,552.3	31.7	24.2	-47.60	4,228.4	-35.9	4,311.2	4,280.2	30.95	139.314	
8,000.0	7,689.8	7,695.2	7,577.1	32.0	24.3	-50.88	4,229.0	-36.1	4,272.2	4,242.1	30.10	141.917	
8,050.0	7,708.0	7,715.5	7,597.4	32.2	24.3	-55.27	4,229.4	-36.3	4,231.2	4,201.3	29.90	141.517	
8,100.0	7,722.3	7,773.3	7,655.2	32.4	24.3	-61.98	4,230.2	-37.2	4,188.6	4,158.0	30.57	136.996	
8,150.0	7,732.4	7,824.2	7,706.0	32.7	24.4	-70.60	4,230.3	-37.9	4,144.4	4,112.6	31.83	130.216	
8,200.0	7,738.3	7,830.0	7,711.9	33.0	24.4	-79.94	4,230.3	-38.0	4,099.2	4,066.2	33.05	124.044	
8,244.9	7,740.0	7,831.6	7,713.5	33.2	24.4	-89.59	4,230.3	-38.0	4,058.2	4,024.4	33.85	119.877	
8,300.0	7,740.0	7,831.5	7,713.4	33.5	24.4	-89.59	4,230.3	-38.0	4,007.6	3,973.1	34.47	116.255	
8,400.0	7,740.0	7,831.4	7,713.2	34.1	24.4	-89.58	4,230.3	-38.0	3,916.2	3,880.5	35.67	109.786	
8,500.0	7,740.0	7,831.2	7,713.1	34.8	24.4	-89.57	4,230.3	-38.0	3,825.2	3,788.3	36.95	103.520	
8,600.0	7,740.0	7,831.0	7,712.9	35.6	24.4	-89.57	4,230.3	-38.0	3,734.7	3,696.4	38.30	97.513	
8,700.0	7,740.0	7,830.8	7,712.7	36.5	24.4	-89.56	4,230.3	-38.0	3,644.6	3,604.9	39.70	91.800	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 765-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,800.0	7,740.0	7,830.7	7,712.5	37.4	24.4	-89.55	4,230.3	-38.0	3,555.1	3,514.0	41.15	86.394	
8,900.0	7,740.0	7,830.5	7,712.3	38.3	24.4	-89.55	4,230.3	-38.0	3,466.2	3,423.6	42.64	81.296	
9,000.0	7,740.0	7,830.3	7,712.2	39.4	24.4	-89.54	4,230.3	-38.0	3,377.9	3,333.7	44.16	76.500	
9,100.0	7,740.0	7,830.1	7,712.0	40.4	24.4	-89.53	4,230.3	-38.0	3,290.3	3,244.6	45.70	71.996	
9,200.0	7,740.0	7,829.9	7,711.8	41.6	24.4	-89.53	4,230.3	-38.0	3,203.3	3,156.1	47.27	67.770	
9,300.0	7,740.0	7,829.7	7,711.6	42.7	24.4	-89.52	4,230.3	-38.0	3,117.2	3,068.4	48.86	63.805	
9,400.0	7,740.0	7,829.6	7,711.4	43.9	24.4	-89.52	4,230.3	-38.0	3,031.9	2,981.5	50.46	60.087	
9,500.0	7,740.0	7,829.4	7,711.2	45.2	24.4	-89.51	4,230.3	-38.0	2,947.6	2,895.5	52.08	56.601	
9,600.0	7,740.0	7,829.2	7,711.0	46.4	24.4	-89.50	4,230.3	-38.0	2,864.2	2,810.5	53.71	53.330	
9,700.0	7,740.0	7,829.0	7,710.9	47.7	24.4	-89.49	4,230.3	-38.0	2,782.0	2,726.6	55.35	50.263	
9,800.0	7,740.0	7,828.8	7,710.7	49.1	24.4	-89.49	4,230.3	-38.0	2,700.9	2,643.9	57.00	47.385	
9,900.0	7,740.0	7,828.6	7,710.5	50.4	24.4	-89.48	4,230.3	-38.0	2,621.2	2,562.5	58.66	44.686	
10,000.0	7,740.0	7,828.4	7,710.3	51.8	24.4	-89.47	4,230.3	-38.0	2,542.9	2,482.5	60.32	42.153	
10,100.0	7,740.0	7,828.2	7,710.1	53.2	24.4	-89.47	4,230.3	-37.9	2,466.1	2,404.1	62.00	39.777	
10,200.0	7,740.0	7,828.0	7,709.9	54.6	24.4	-89.46	4,230.3	-37.9	2,391.1	2,327.4	63.68	37.550	
10,300.0	7,740.0	7,827.8	7,709.7	56.1	24.4	-89.45	4,230.3	-37.9	2,318.0	2,252.6	65.36	35.464	
10,400.0	7,740.0	7,827.6	7,709.5	57.6	24.4	-89.45	4,230.3	-37.9	2,246.9	2,179.8	67.05	33.511	
10,500.0	7,740.0	7,827.4	7,709.3	59.0	24.4	-89.44	4,230.3	-37.9	2,178.1	2,109.4	68.74	31.684	
10,600.0	7,740.0	7,827.2	7,709.1	60.5	24.4	-89.43	4,230.3	-37.9	2,111.8	2,041.4	70.44	29.980	
10,700.0	7,740.0	7,827.0	7,708.9	62.0	24.4	-89.42	4,230.3	-37.9	2,048.3	1,976.1	72.14	28.392	
10,800.0	7,740.0	7,826.8	7,708.7	63.5	24.4	-89.42	4,230.3	-37.9	1,987.7	1,913.9	73.85	26.917	
10,900.0	7,740.0	7,826.6	7,708.5	65.1	24.4	-89.41	4,230.3	-37.9	1,930.4	1,854.9	75.55	25.551	
11,000.0	7,740.0	7,826.4	7,708.3	66.6	24.4	-89.40	4,230.3	-37.9	1,876.7	1,799.5	77.26	24.290	
11,100.0	7,740.0	7,826.2	7,708.1	68.2	24.4	-89.40	4,230.3	-37.9	1,826.9	1,748.0	78.97	23.133	
11,200.0	7,740.0	7,826.0	7,707.9	69.7	24.4	-89.39	4,230.3	-37.9	1,781.4	1,700.7	80.69	22.077	
11,300.0	7,740.0	7,825.8	7,707.6	71.3	24.4	-89.38	4,230.3	-37.9	1,740.4	1,658.0	82.41	21.120	
11,400.0	7,740.0	7,825.6	7,707.4	72.9	24.4	-89.37	4,230.3	-37.9	1,704.3	1,620.1	84.12	20.259	
11,500.0	7,740.0	7,825.4	7,707.2	74.5	24.4	-89.37	4,230.3	-37.9	1,673.4	1,587.5	85.84	19.493	
11,600.0	7,740.0	7,825.1	7,707.0	76.1	24.4	-89.36	4,230.3	-37.9	1,647.9	1,560.4	87.57	18.820	
11,700.0	7,740.0	7,824.9	7,706.8	77.7	24.4	-89.35	4,230.3	-37.9	1,628.3	1,539.0	89.29	18.236	
11,800.0	7,740.0	7,824.7	7,706.6	79.3	24.4	-89.34	4,230.3	-37.9	1,614.6	1,523.6	91.01	17.740	
11,900.0	7,740.0	7,824.5	7,706.4	80.9	24.4	-89.33	4,230.3	-37.9	1,607.0	1,514.3	92.74	17.328	
11,972.0	7,740.0	7,824.3	7,706.2	82.1	24.4	-89.33	4,230.3	-37.9	1,605.4	1,511.4	93.98	17.082 CC	
12,000.0	7,740.0	7,824.3	7,706.1	82.5	24.4	-89.33	4,230.3	-37.9	1,605.6	1,511.2	94.47	16.997 ES	
12,100.0	7,740.0	7,824.0	7,705.9	84.2	24.4	-89.32	4,230.3	-37.9	1,610.5	1,514.3	96.19	16.742	
12,200.0	7,740.0	7,823.8	7,705.7	85.8	24.4	-89.31	4,230.3	-37.9	1,621.5	1,523.6	97.92	16.559	
12,300.0	7,740.0	7,823.6	7,705.5	87.4	24.4	-89.30	4,230.3	-37.9	1,638.6	1,538.9	99.65	16.442	
12,400.0	7,740.0	7,823.4	7,705.2	89.1	24.4	-89.29	4,230.3	-37.9	1,661.5	1,560.1	101.39	16.388 SF	
12,500.0	7,740.0	7,823.1	7,705.0	90.7	24.4	-89.29	4,230.3	-37.9	1,690.0	1,586.9	103.12	16.389	
12,600.0	7,740.0	7,822.9	7,704.8	92.4	24.4	-89.28	4,230.3	-37.9	1,723.9	1,619.0	104.85	16.441	
12,700.0	7,740.0	7,822.7	7,704.5	94.0	24.4	-89.27	4,230.3	-37.9	1,762.7	1,656.2	106.59	16.538	
12,800.0	7,740.0	7,822.4	7,704.3	95.7	24.4	-89.26	4,230.3	-37.9	1,806.3	1,698.0	108.32	16.676	
12,900.0	7,740.0	7,822.2	7,704.1	97.3	24.4	-89.25	4,230.3	-37.9	1,854.3	1,744.3	110.05	16.849	
13,000.0	7,740.0	7,822.0	7,703.8	99.0	24.4	-89.24	4,230.3	-37.9	1,906.3	1,794.5	111.79	17.053	
13,100.0	7,740.0	7,821.7	7,703.6	100.7	24.4	-89.24	4,230.3	-37.9	1,962.1	1,848.5	113.53	17.283	
13,200.0	7,740.0	7,821.5	7,703.4	102.3	24.4	-89.23	4,230.3	-37.9	2,021.2	1,905.9	115.26	17.535	
13,300.0	7,740.0	7,821.2	7,703.1	104.0	24.4	-89.22	4,230.3	-37.9	2,083.5	1,966.5	117.00	17.807	
13,400.0	7,740.0	7,821.0	7,702.9	105.7	24.4	-89.21	4,230.3	-37.9	2,148.6	2,029.9	118.74	18.095	
13,500.0	7,740.0	7,820.8	7,702.6	107.3	24.4	-89.20	4,230.3	-37.9	2,216.3	2,095.8	120.48	18.396	
13,600.0	7,740.0	7,820.5	7,702.4	109.0	24.4	-89.19	4,230.3	-37.9	2,286.4	2,164.2	122.22	18.707	
13,700.0	7,740.0	7,820.3	7,702.1	110.7	24.4	-89.18	4,230.3	-37.9	2,358.7	2,234.7	123.96	19.028	
13,800.0	7,740.0	7,820.0	7,701.9	112.4	24.4	-89.17	4,230.3	-37.9	2,432.9	2,307.2	125.70	19.355	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SU													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	
13,900.0	7,740.0	7,820.0	7,701.9	114.1	24.4	-89.17	4,230.3	-37.9	2,508.9	2,381.4	127.44	19.687	
14,000.0	7,740.0	7,820.0	7,701.9	115.8	24.4	-89.17	4,230.3	-37.9	2,586.5	2,457.3	129.18	20.022	
14,100.0	7,740.0	7,820.0	7,701.9	117.5	24.4	-89.17	4,230.3	-37.9	2,665.6	2,534.7	130.92	20.360	
14,200.0	7,740.0	7,820.0	7,701.9	119.2	24.4	-89.17	4,230.3	-37.9	2,746.1	2,613.5	132.66	20.700	
14,300.0	7,740.0	7,820.0	7,701.9	120.8	24.4	-89.17	4,230.3	-37.9	2,827.9	2,693.5	134.41	21.039	
14,400.0	7,740.0	7,820.0	7,701.9	122.5	24.4	-89.17	4,230.3	-37.9	2,910.7	2,774.6	136.15	21.379	
14,500.0	7,740.0	7,820.0	7,701.9	124.2	24.4	-89.17	4,230.3	-37.9	2,994.7	2,856.8	137.89	21.717	
14,600.0	7,740.0	7,820.0	7,701.9	125.9	24.4	-89.17	4,230.3	-37.9	3,079.5	2,939.9	139.64	22.054	
14,700.0	7,740.0	7,820.0	7,701.9	127.6	24.4	-89.17	4,230.3	-37.9	3,165.3	3,023.9	141.38	22.389	
14,800.0	7,740.0	7,820.0	7,701.9	129.3	24.4	-89.17	4,230.3	-37.9	3,251.9	3,108.8	143.12	22.721	
14,844.9	7,740.0	7,820.0	7,701.9	130.1	24.4	-89.17	4,230.3	-37.9	3,291.0	3,147.1	143.91	22.869	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	17.74	4,282.8	1,369.8	4,496.7					
100.0	100.0	72.8	72.8	0.2	0.1	17.74	4,282.8	1,369.8	4,496.5	4,496.2	0.28	N/A		
188.9	188.9	150.9	150.9	0.3	0.3	17.74	4,282.6	1,369.8	4,496.3	4,495.7	0.57	7,880.745		
200.0	200.0	159.5	159.5	0.3	0.3	17.74	4,282.6	1,369.8	4,496.3	4,495.7	0.60	7,434.166		
250.0	250.0	200.0	200.0	0.4	0.3	17.74	4,282.7	1,369.7	4,496.4	4,495.6	0.76	5,895.311		
300.0	300.0	242.3	242.3	0.5	0.4	-82.27	4,282.9	1,369.7	4,496.6	4,495.6	0.92	4,866.458		
400.0	400.0	333.6	333.6	0.7	0.6	-82.29	4,283.5	1,369.3	4,496.9	4,495.6	1.26	3,568.435		
500.0	499.9	440.7	440.7	0.9	0.8	-82.35	4,284.5	1,368.5	4,497.1	4,495.4	1.63	2,759.735		
600.0	599.8	570.4	570.4	1.1	1.0	-82.45	4,284.9	1,367.9	4,496.5	4,494.4	2.05	2,195.852		
700.0	699.5	654.6	654.6	1.3	1.1	-82.55	4,285.1	1,366.8	4,495.4	4,493.0	2.40	1,872.983		
800.0	799.2	738.0	737.9	1.5	1.3	-82.67	4,285.9	1,365.2	4,494.7	4,492.0	2.77	1,624.067		
900.0	898.6	858.4	858.3	1.7	1.5	-82.87	4,287.1	1,362.8	4,493.8	4,490.6	3.22	1,395.739		
1,000.0	997.9	957.5	957.4	2.0	1.7	-83.07	4,287.7	1,360.6	4,492.2	4,488.6	3.66	1,228.454		
1,100.0	1,096.9	1,048.8	1,048.7	2.3	1.8	-83.28	4,288.7	1,358.0	4,490.8	4,486.6	4.10	1,094.177		
1,200.0	1,195.7	1,150.3	1,150.2	2.6	2.0	-83.54	4,289.8	1,355.1	4,489.1	4,484.5	4.60	976.854		
1,300.0	1,294.1	1,244.0	1,243.7	2.9	2.2	-83.80	4,290.8	1,352.3	4,487.4	4,482.3	5.10	879.923		
1,400.0	1,392.3	1,336.2	1,335.9	3.3	2.4	-84.07	4,292.0	1,349.6	4,485.7	4,480.1	5.63	796.821		
1,500.0	1,490.1	1,462.1	1,461.7	3.7	2.6	-84.48	4,293.3	1,345.7	4,483.9	4,477.6	6.25	717.443		
1,600.0	1,587.5	1,566.0	1,565.6	4.1	2.8	-84.84	4,293.8	1,342.4	4,481.3	4,474.4	6.86	653.243		
1,700.0	1,684.6	1,660.6	1,660.2	4.5	3.0	-85.20	4,294.4	1,339.3	4,478.8	4,471.3	7.48	598.475		
1,750.0	1,732.9	1,709.8	1,709.3	4.8	3.0	-85.39	4,294.6	1,337.8	4,477.5	4,469.7	7.81	573.494		
1,800.0	1,781.2	1,755.3	1,754.8	5.0	3.1	-83.69	4,294.9	1,336.3	4,476.1	4,468.0	8.12	550.942		
1,900.0	1,877.8	1,853.5	1,852.9	5.5	3.3	-80.30	4,295.4	1,333.2	4,472.2	4,463.4	8.77	509.936		
1,981.2	1,956.2	1,941.4	1,940.8	5.9	3.5	-77.58	4,295.7	1,330.6	4,467.7	4,458.4	9.31	480.007		
2,000.0	1,974.4	1,962.5	1,961.9	6.0	3.5	-77.65	4,295.7	1,330.1	4,466.5	4,457.1	9.43	473.452		
2,100.0	2,071.3	2,125.0	2,124.4	6.4	3.8	-78.13	4,294.5	1,326.3	4,459.8	4,449.7	10.17	438.601		
2,181.5	2,150.7	2,200.0	2,199.3	6.7	3.9	-78.31	4,293.2	1,324.9	4,454.2	4,443.5	10.65	418.333		
2,200.0	2,168.6	2,200.0	2,199.3	6.8	3.9	-78.31	4,293.2	1,324.9	4,453.0	4,442.2	10.73	415.169		
2,300.0	2,266.1	2,272.7	2,272.1	7.3	4.1	-78.52	4,292.4	1,323.8	4,446.9	4,435.6	11.28	394.275		
2,400.0	2,363.5	2,341.6	2,340.9	7.7	4.2	-78.73	4,292.1	1,323.1	4,441.7	4,429.8	11.83	375.587		
2,500.0	2,461.0	2,426.6	2,425.9	8.1	4.3	-78.98	4,292.2	1,322.2	4,437.1	4,424.7	12.40	357.707		
2,600.0	2,558.4	2,531.1	2,530.4	8.6	4.5	-79.30	4,292.4	1,320.5	4,432.5	4,419.5	13.02	340.425		
2,700.0	2,655.8	2,625.9	2,625.1	9.0	4.7	-79.60	4,292.6	1,318.7	4,428.1	4,414.5	13.62	325.110		
2,800.0	2,753.3	2,700.0	2,699.3	9.4	4.8	-79.83	4,292.7	1,317.4	4,423.9	4,409.8	14.18	311.920		
2,900.0	2,850.7	2,773.4	2,772.6	9.9	4.9	-80.05	4,293.3	1,316.3	4,420.4	4,405.6	14.74	299.800		
3,000.0	2,948.2	2,865.0	2,864.2	10.3	5.1	-80.33	4,294.5	1,315.2	4,417.6	4,402.3	15.34	288.003		
3,100.0	3,045.6	2,962.4	2,961.6	10.7	5.3	-80.63	4,295.7	1,314.2	4,414.8	4,398.9	15.94	276.888		
3,200.0	3,143.0	3,053.4	3,052.6	11.2	5.4	-80.90	4,296.9	1,313.2	4,412.2	4,395.7	16.54	266.770		
3,300.0	3,240.5	3,139.3	3,138.5	11.6	5.6	-81.17	4,298.2	1,312.1	4,410.0	4,392.8	17.13	257.489		
3,400.0	3,337.9	3,222.1	3,221.3	12.0	5.7	-81.43	4,299.8	1,310.8	4,408.2	4,390.5	17.71	248.909		
3,500.0	3,435.3	3,312.4	3,311.6	12.5	5.9	-81.71	4,301.8	1,309.3	4,406.7	4,388.4	18.31	240.703		
3,600.0	3,532.8	3,387.0	3,386.1	12.9	6.0	-81.95	4,303.7	1,307.9	4,405.7	4,386.8	18.88	233.382		
3,700.0	3,630.2	3,492.5	3,491.5	13.3	6.2	-82.29	4,306.6	1,305.6	4,405.0	4,385.5	19.51	225.829		
3,800.0	3,727.7	3,604.8	3,603.8	13.8	6.4	-82.65	4,309.4	1,303.0	4,404.1	4,384.0	20.15	218.605		
3,900.0	3,825.1	3,711.7	3,710.6	14.2	6.6	-82.99	4,311.7	1,300.8	4,403.1	4,382.4	20.78	211.936		
4,000.0	3,922.5	3,813.6	3,812.5	14.6	6.8	-83.32	4,313.7	1,299.1	4,402.1	4,380.7	21.40	205.752		
4,100.0	4,020.0	3,920.4	3,919.3	15.1	7.0	-83.65	4,315.6	1,297.4	4,401.1	4,379.1	22.02	199.840		
4,200.0	4,117.4	4,032.7	4,031.5	15.5	7.2	-84.00	4,317.2	1,295.6	4,399.9	4,377.2	22.66	194.156		
4,300.0	4,214.9	4,130.0	4,128.8	16.0	7.4	-84.31	4,318.4	1,294.0	4,398.6	4,375.3	23.27	189.003		
4,400.0	4,312.3	4,230.4	4,229.1	16.4	7.5	-84.63	4,319.8	1,292.2	4,397.5	4,373.6	23.89	184.072		
4,500.0	4,409.7	4,360.4	4,359.2	16.8	7.8	-85.04	4,321.0	1,289.7	4,396.2	4,371.6	24.56	178.986		
4,600.0	4,507.2	4,471.7	4,470.4	17.3	8.0	-85.39	4,321.2	1,287.5	4,394.3	4,369.1	25.20	174.387		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,700.0	4,604.6	4,560.7	4,559.4	17.7	8.1	-85.67	4,321.4	1,285.8	4,392.5	4,366.7	25.80	170.286		
4,800.0	4,702.0	4,657.1	4,655.8	18.1	8.3	-85.98	4,321.8	1,284.1	4,391.1	4,364.7	26.40	166.301		
4,900.0	4,799.5	4,748.7	4,747.4	18.6	8.5	-86.27	4,322.1	1,282.5	4,389.7	4,362.7	27.01	162.551		
5,000.0	4,896.9	4,830.7	4,829.3	19.0	8.6	-86.52	4,322.6	1,281.1	4,388.8	4,361.2	27.59	159.083		
5,100.0	4,994.4	4,919.8	4,918.4	19.4	8.8	-86.80	4,323.5	1,280.0	4,388.3	4,360.1	28.18	155.711		
5,200.0	5,091.8	5,032.4	5,031.0	19.9	9.0	-87.15	4,324.3	1,278.5	4,387.7	4,358.9	28.82	152.248		
5,300.0	5,189.2	5,120.8	5,119.5	20.3	9.1	-87.43	4,324.9	1,277.2	4,387.2	4,357.8	29.41	149.162		
5,362.9	5,250.5	5,172.3	5,171.0	20.6	9.2	-87.59	4,325.4	1,276.7	4,387.1	4,357.4	29.78	147.331		
5,400.0	5,286.7	5,203.4	5,202.0	20.8	9.3	-87.68	4,325.7	1,276.4	4,387.2	4,357.2	29.99	146.269		
5,500.0	5,384.1	5,304.1	5,302.7	21.2	9.4	-87.99	4,326.8	1,275.6	4,387.4	4,356.7	30.61	143.345		
5,600.0	5,481.6	5,407.1	5,405.7	21.6	9.6	-88.30	4,327.8	1,274.7	4,387.5	4,356.3	31.22	140.519		
5,700.0	5,579.0	5,494.6	5,493.2	22.1	9.8	-88.57	4,328.7	1,273.8	4,387.9	4,356.1	31.81	137.924		
5,800.0	5,676.4	5,592.8	5,591.4	22.5	9.9	-88.87	4,329.7	1,273.1	4,388.5	4,356.1	32.42	135.364		
5,900.0	5,773.9	5,680.2	5,678.8	22.9	10.1	-89.13	4,330.8	1,272.8	4,389.3	4,356.3	33.01	132.978		
6,000.0	5,871.3	5,780.8	5,779.4	23.4	10.3	-89.43	4,332.1	1,272.2	4,390.4	4,356.7	33.62	130.592		
6,100.0	5,968.7	5,898.4	5,896.9	23.8	10.5	-89.79	4,333.3	1,270.9	4,391.3	4,357.0	34.26	128.174		
6,200.0	6,066.2	5,992.3	5,990.9	24.3	10.6	-90.08	4,334.1	1,269.8	4,392.1	4,357.2	34.86	125.996		
6,300.0	6,163.6	6,085.8	6,084.3	24.7	10.8	-90.37	4,335.0	1,268.7	4,393.1	4,357.6	35.46	123.896		
6,400.0	6,261.1	6,165.0	6,163.6	25.1	10.9	-90.62	4,335.9	1,267.6	4,394.4	4,358.4	36.03	121.962		
6,500.0	6,358.5	6,271.4	6,269.9	25.6	11.1	-90.95	4,337.3	1,266.1	4,396.2	4,359.5	36.65	119.944		
6,600.0	6,455.9	6,372.5	6,371.0	26.0	11.3	-91.27	4,338.4	1,264.1	4,397.7	4,360.4	37.26	118.016		
6,700.0	6,553.4	6,494.0	6,492.4	26.5	11.5	-91.66	4,339.4	1,261.6	4,399.2	4,361.3	37.91	116.046		
6,800.0	6,650.8	6,577.8	6,576.2	26.9	11.7	-91.92	4,339.9	1,259.9	4,400.6	4,362.1	38.49	114.332		
6,900.0	6,748.3	6,668.2	6,666.6	27.3	11.8	-92.21	4,340.8	1,258.1	4,402.4	4,363.3	39.08	112.651		
7,000.0	6,845.7	6,765.9	6,764.3	27.8	12.0	-92.52	4,341.7	1,256.1	4,404.4	4,364.7	39.68	110.985		
7,100.0	6,943.1	6,859.0	6,857.4	28.2	12.2	-92.83	4,342.5	1,253.3	4,406.5	4,366.2	40.28	109.394		
7,200.0	7,040.6	6,951.2	6,949.5	28.6	12.4	-93.14	4,343.5	1,250.2	4,408.9	4,368.0	40.88	107.860		
7,300.0	7,138.0	7,032.1	7,030.3	29.1	12.5	-93.41	4,344.4	1,247.3	4,411.5	4,370.1	41.45	106.428		
7,341.8	7,178.7	7,060.0	7,058.2	29.3	12.6	-93.50	4,344.8	1,246.4	4,412.8	4,371.2	41.68	105.872		
7,350.0	7,186.7	7,065.5	7,063.7	29.3	12.6	-89.97	4,344.9	1,246.2	4,413.1	4,371.3	41.72	105.772		
7,400.0	7,235.4	7,100.0	7,098.2	29.5	12.6	-69.70	4,345.6	1,245.0	4,412.0	4,370.1	41.82	105.489		
7,450.0	7,283.6	7,140.4	7,138.5	29.7	12.7	-54.13	4,346.5	1,243.7	4,406.7	4,365.0	41.67	105.757		
7,500.0	7,331.0	7,181.7	7,179.8	29.9	12.8	-43.44	4,347.5	1,242.7	4,397.2	4,355.9	41.25	106.597		
7,550.0	7,377.4	7,219.2	7,217.3	30.1	12.9	-36.22	4,348.4	1,242.0	4,383.6	4,343.0	40.57	108.049		
7,600.0	7,422.2	7,253.5	7,251.5	30.3	12.9	-31.25	4,349.4	1,241.5	4,365.9	4,326.3	39.64	110.145		
7,650.0	7,465.2	7,286.5	7,284.6	30.5	13.0	-27.77	4,350.4	1,241.1	4,344.5	4,306.0	38.47	112.926		
7,700.0	7,506.0	7,320.3	7,318.3	30.7	13.0	-25.31	4,351.5	1,240.9	4,319.3	4,282.2	37.09	116.448		
7,750.0	7,544.4	7,353.7	7,351.8	30.9	13.1	-23.58	4,352.7	1,240.7	4,290.5	4,255.0	35.52	120.792		
7,800.0	7,580.0	7,385.1	7,383.1	31.1	13.1	-22.41	4,353.9	1,240.8	4,258.3	4,224.6	33.78	126.053		
7,850.0	7,612.6	7,400.0	7,398.0	31.3	13.2	-21.62	4,354.4	1,240.9	4,223.1	4,191.2	31.89	132.427		
7,900.0	7,641.9	7,429.4	7,427.4	31.5	13.2	-21.34	4,355.6	1,241.0	4,184.9	4,155.0	29.94	139.773		
7,950.0	7,667.7	7,446.6	7,444.6	31.7	13.3	-21.42	4,356.4	1,241.2	4,144.3	4,116.3	27.95	148.291		
8,000.0	7,689.8	7,461.7	7,459.6	32.0	13.3	-21.99	4,357.1	1,241.3	4,101.3	4,075.3	26.00	157.726		
8,050.0	7,708.0	7,474.6	7,472.5	32.2	13.3	-23.19	4,357.7	1,241.4	4,056.3	4,032.1	24.22	167.485		
8,100.0	7,722.3	7,500.0	7,497.9	32.4	13.3	-25.69	4,359.0	1,241.6	4,009.7	3,986.9	22.84	175.581		
8,150.0	7,732.4	7,500.0	7,497.9	32.7	13.3	-29.74	4,359.0	1,241.6	3,961.7	3,939.7	22.03	179.802		
8,200.0	7,738.3	7,500.0	7,497.9	33.0	13.3	-38.30	4,359.0	1,241.6	3,912.8	3,890.1	22.67	172.591		
8,244.9	7,740.0	7,501.8	7,499.6	33.2	13.4	-58.10	4,359.1	1,241.6	3,868.3	3,841.9	26.36	146.761		
8,300.0	7,740.0	7,504.9	7,502.8	33.5	13.4	-58.50	4,359.3	1,241.6	3,813.4	3,786.4	26.99	141.265		
8,400.0	7,740.0	7,510.6	7,508.5	34.1	13.4	-59.23	4,359.6	1,241.7	3,713.9	3,685.7	28.22	131.602		
8,500.0	7,740.0	7,516.3	7,514.1	34.8	13.4	-59.97	4,359.9	1,241.7	3,614.5	3,584.9	29.53	122.411		
8,600.0	7,740.0	7,521.9	7,519.8	35.6	13.4	-60.72	4,360.2	1,241.8	3,515.0	3,484.1	30.90	113.742		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error:	0.0 ft
Survey Program: 100-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)				
8,700.0	7,740.0	7,527.6	7,525.4	36.5	13.4	-61.47	4,360.5	1,241.8	3,415.6	3,383.3	32.34	105.615		
8,800.0	7,740.0	7,533.2	7,531.0	37.4	13.4	-62.24	4,360.8	1,241.9	3,316.2	3,282.4	33.83	98.026		
8,900.0	7,740.0	7,538.8	7,536.6	38.3	13.4	-63.01	4,361.1	1,241.9	3,216.8	3,181.5	35.37	90.957		
9,000.0	7,740.0	7,544.3	7,542.1	39.4	13.4	-63.79	4,361.4	1,242.0	3,117.5	3,080.5	36.95	84.381		
9,100.0	7,740.0	7,549.9	7,547.7	40.4	13.4	-64.58	4,361.7	1,242.0	3,018.2	2,979.6	38.56	78.269		
9,200.0	7,740.0	7,555.4	7,553.2	41.6	13.4	-65.38	4,362.0	1,242.1	2,918.9	2,878.7	40.21	72.588		
9,300.0	7,740.0	7,560.9	7,558.7	42.7	13.5	-66.18	4,362.3	1,242.1	2,819.7	2,777.8	41.89	67.308		
9,400.0	7,740.0	7,566.4	7,564.2	43.9	13.5	-66.99	4,362.5	1,242.2	2,720.5	2,676.9	43.60	62.396		
9,500.0	7,740.0	7,571.9	7,569.7	45.2	13.5	-67.81	4,362.8	1,242.2	2,621.4	2,576.0	45.33	57.824		
9,600.0	7,740.0	7,577.3	7,575.1	46.4	13.5	-68.64	4,363.1	1,242.3	2,522.3	2,475.2	47.09	53.564		
9,700.0	7,740.0	7,582.8	7,580.5	47.7	13.5	-69.47	4,363.4	1,242.3	2,423.3	2,374.4	48.87	49.591		
9,800.0	7,740.0	7,588.2	7,586.0	49.1	13.5	-70.31	4,363.7	1,242.4	2,324.4	2,273.7	50.66	45.881		
9,900.0	7,740.0	7,593.6	7,591.3	50.4	13.5	-71.16	4,364.0	1,242.4	2,225.5	2,173.0	52.47	42.414		
10,000.0	7,740.0	7,599.0	7,596.7	51.8	13.5	-72.01	4,364.2	1,242.5	2,126.8	2,072.5	54.30	39.170		
10,100.0	7,740.0	7,605.0	7,602.7	53.2	13.5	-72.97	4,364.5	1,242.5	2,028.1	1,971.9	56.16	36.112		
10,200.0	7,740.0	7,611.0	7,608.7	54.6	13.5	-73.95	4,364.8	1,242.6	1,929.6	1,871.5	58.04	33.246		
10,300.0	7,740.0	7,616.9	7,614.6	56.1	13.6	-74.91	4,365.1	1,242.7	1,831.2	1,771.3	59.92	30.560		
10,400.0	7,740.0	7,622.7	7,620.4	57.6	13.6	-75.87	4,365.4	1,242.7	1,733.0	1,671.2	61.80	28.040		
10,500.0	7,740.0	7,628.4	7,626.1	59.0	13.6	-76.82	4,365.7	1,242.8	1,634.9	1,571.3	63.69	25.672		
10,600.0	7,740.0	7,634.0	7,631.7	60.5	13.6	-77.75	4,366.0	1,242.8	1,537.2	1,471.6	65.57	23.444		
10,700.0	7,740.0	7,639.5	7,637.1	62.0	13.6	-78.68	4,366.3	1,242.9	1,439.7	1,372.2	67.45	21.345		
10,800.0	7,740.0	7,644.8	7,642.5	63.5	13.6	-79.59	4,366.5	1,242.9	1,342.5	1,273.2	69.32	19.367		
10,900.0	7,740.0	7,650.1	7,647.8	65.1	13.6	-80.49	4,366.8	1,242.9	1,245.8	1,174.6	71.19	17.500		
11,000.0	7,740.0	7,655.3	7,652.9	66.6	13.6	-81.38	4,367.0	1,243.0	1,149.6	1,076.6	73.05	15.737		
11,100.0	7,740.0	7,660.3	7,658.0	68.2	13.6	-82.26	4,367.2	1,243.0	1,054.1	979.2	74.91	14.073		
11,200.0	7,740.0	7,665.3	7,663.0	69.7	13.6	-83.12	4,367.5	1,243.1	959.6	882.8	76.75	12.502		
11,300.0	7,740.0	7,670.2	7,667.9	71.3	13.7	-83.98	4,367.7	1,243.1	866.2	787.6	78.59	11.021		
11,400.0	7,740.0	7,675.0	7,672.7	72.9	13.7	-84.82	4,367.9	1,243.1	774.4	694.0	80.42	9.630		
11,500.0	7,740.0	7,679.7	7,677.4	74.5	13.7	-85.65	4,368.1	1,243.2	684.9	602.6	82.23	8.329		
11,600.0	7,740.0	7,684.4	7,682.0	76.1	13.7	-86.46	4,368.3	1,243.2	598.7	514.6	84.04	7.124		
11,700.0	7,740.0	7,688.9	7,686.5	77.7	13.7	-87.26	4,368.5	1,243.2	517.4	431.6	85.83	6.028		
11,800.0	7,740.0	7,693.4	7,691.0	79.3	13.7	-88.05	4,368.7	1,243.3	443.8	356.2	87.61	5.066		
11,900.0	7,740.0	7,697.8	7,695.4	80.9	13.7	-88.83	4,368.9	1,243.3	382.4	293.0	89.38	4.278		
12,000.0	7,740.0	7,702.1	7,699.7	82.5	13.7	-89.60	4,369.1	1,243.3	339.7	248.6	91.13	3.728		
12,100.0	7,740.0	7,706.4	7,704.0	84.2	13.7	-90.36	4,369.3	1,243.4	323.4	230.5	92.87	3.482		
12,104.3	7,740.0	7,706.6	7,704.2	84.2	13.7	-90.39	4,369.3	1,243.4	323.3	230.4	92.94	3.479 CC, ES, SF		
12,200.0	7,740.0	7,710.7	7,708.4	85.8	13.7	-91.13	4,369.5	1,243.4	337.2	242.6	94.59	3.564		
12,300.0	7,740.0	7,715.1	7,712.7	87.4	13.7	-91.89	4,369.7	1,243.4	377.8	281.5	96.31	3.923		
12,400.0	7,740.0	7,719.4	7,717.0	89.1	13.7	-92.66	4,369.9	1,243.4	438.0	340.0	98.00	4.469		
12,500.0	7,740.0	7,723.7	7,721.3	90.7	13.7	-93.42	4,370.0	1,243.5	510.7	411.0	99.68	5.124		
12,600.0	7,740.0	7,728.0	7,725.6	92.4	13.8	-94.18	4,370.2	1,243.5	591.4	490.1	101.34	5.836		
12,700.0	7,740.0	7,732.4	7,730.0	94.0	13.8	-94.95	4,370.4	1,243.5	677.3	574.3	102.98	6.577		
12,800.0	7,740.0	7,736.7	7,734.3	95.7	13.8	-95.71	4,370.6	1,243.6	766.6	662.0	104.60	7.329		
12,900.0	7,740.0	7,741.0	7,738.6	97.3	13.8	-96.47	4,370.8	1,243.6	858.2	752.0	106.19	8.081		
13,000.0	7,740.0	7,745.4	7,742.9	99.0	13.8	-97.22	4,371.0	1,243.6	951.5	843.7	107.77	8.828		
13,100.0	7,740.0	7,749.7	7,747.3	100.7	13.8	-97.98	4,371.2	1,243.6	1,046.0	936.6	109.33	9.567		
13,200.0	7,740.0	7,754.0	7,751.6	102.3	13.8	-98.73	4,371.4	1,243.7	1,141.4	1,030.5	110.86	10.296		
13,300.0	7,740.0	7,758.4	7,755.9	104.0	13.8	-99.48	4,371.5	1,243.7	1,237.5	1,125.2	112.37	11.013		
13,400.0	7,740.0	7,762.7	7,760.3	105.7	13.8	-100.23	4,371.7	1,243.7	1,334.2	1,220.4	113.86	11.718		
13,500.0	7,740.0	7,767.1	7,764.6	107.3	13.8	-100.98	4,371.9	1,243.8	1,431.4	1,316.0	115.32	12.412		
13,600.0	7,740.0	7,771.4	7,769.0	109.0	13.8	-101.72	4,372.1	1,243.8	1,528.9	1,412.1	116.76	13.094		
13,700.0	7,740.0	7,775.8	7,773.3	110.7	13.8	-102.45	4,372.3	1,243.8	1,626.6	1,508.5	118.17	13.765		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 23-6 (EXISTING) - ENCANA WELL - GY													Offset Site Error: 0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,800.0	7,740.0	7,780.1	7,777.6	112.4	13.8	-103.19	4,372.5	1,243.9	1,724.7	1,605.1	119.56	14.425	
13,900.0	7,740.0	7,784.5	7,782.0	114.1	13.9	-103.92	4,372.7	1,243.9	1,822.9	1,702.0	120.92	15.076	
14,000.0	7,740.0	7,788.8	7,786.3	115.8	13.9	-104.65	4,372.9	1,243.9	1,921.3	1,799.1	122.25	15.716	
14,100.0	7,740.0	7,793.2	7,790.7	117.5	13.9	-105.37	4,373.0	1,244.0	2,019.9	1,896.3	123.56	16.347	
14,200.0	7,740.0	7,797.5	7,795.0	119.2	13.9	-106.08	4,373.2	1,244.0	2,118.5	1,993.7	124.84	16.970	
14,300.0	7,740.0	7,802.0	7,799.5	120.8	13.9	-106.82	4,373.4	1,244.0	2,217.3	2,091.2	126.08	17.586	
14,400.0	7,740.0	7,806.7	7,804.2	122.5	13.9	-107.58	4,373.6	1,244.1	2,316.2	2,188.9	127.28	18.198	
14,500.0	7,740.0	7,811.4	7,808.9	124.2	13.9	-108.33	4,373.8	1,244.1	2,415.2	2,286.7	128.44	18.804	
14,600.0	7,740.0	7,816.1	7,813.6	125.9	13.9	-109.08	4,374.0	1,244.1	2,514.2	2,384.6	129.57	19.404	
14,700.0	7,740.0	7,820.8	7,818.3	127.6	13.9	-109.83	4,374.2	1,244.2	2,613.3	2,482.7	130.67	20.000	
14,800.0	7,740.0	7,825.6	7,823.1	129.3	13.9	-110.58	4,374.5	1,244.2	2,712.5	2,580.8	131.73	20.591	
14,844.9	7,740.0	7,827.7	7,825.2	130.1	13.9	-110.92	4,374.6	1,244.2	2,757.0	2,624.8	132.19	20.855	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL													Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	14.54	3,659.9	949.5	3,781.1					
100.0	100.0	84.0	84.0	0.2	0.1	14.54	3,659.9	949.5	3,781.1	3,780.8	0.30	N/A		
200.0	200.0	184.0	184.0	0.3	0.3	14.54	3,659.9	949.5	3,781.1	3,780.4	0.64	5,888.303		
250.0	250.0	234.0	234.0	0.4	0.4	14.54	3,659.9	949.5	3,781.1	3,780.2	0.82	4,638.200		
300.0	300.0	284.0	284.0	0.5	0.5	-85.46	3,659.9	949.5	3,781.0	3,780.1	0.99	3,825.707		
400.0	400.0	384.0	384.0	0.7	0.7	-85.49	3,659.9	949.5	3,780.9	3,779.6	1.34	2,829.035		
500.0	499.9	483.9	483.9	0.9	0.8	-85.54	3,659.9	949.5	3,780.6	3,778.9	1.69	2,236.854		
600.0	599.8	583.8	583.8	1.1	1.0	-85.63	3,659.9	949.5	3,780.2	3,778.2	2.05	1,841.294		
700.0	699.5	683.5	683.5	1.3	1.2	-85.74	3,659.9	949.5	3,779.7	3,777.3	2.43	1,556.368		
800.0	799.2	775.0	775.0	1.5	1.3	-85.86	3,659.9	949.5	3,779.1	3,776.3	2.81	1,346.855		
819.0	818.0	775.0	775.0	1.5	1.3	-85.86	3,659.9	949.5	3,779.0	3,776.2	2.85	1,325.435		
900.0	898.6	775.0	775.0	1.7	1.3	-85.85	3,659.9	949.5	3,779.9	3,776.8	3.05	1,241.326		
1,000.0	997.9	775.0	775.0	2.0	1.3	-85.82	3,659.9	949.5	3,783.2	3,779.8	3.31	1,144.532		
1,100.0	1,096.9	775.0	775.0	2.3	1.3	-85.76	3,659.9	949.5	3,789.0	3,785.4	3.59	1,055.692		
1,182.2	1,178.1	956.7	956.6	2.5	1.9	-86.19	3,665.4	947.7	3,786.3	3,782.1	4.22	897.206		
1,200.0	1,195.7	964.9	964.8	2.6	1.9	-86.20	3,665.9	947.6	3,787.1	3,782.8	4.29	882.251		
1,300.0	1,294.1	1,010.6	1,010.4	2.9	2.1	-86.30	3,669.1	946.5	3,792.4	3,787.7	4.73	802.334		
1,400.0	1,392.3	1,055.9	1,055.5	3.3	2.2	-86.39	3,673.0	945.3	3,799.1	3,793.9	5.19	732.208		
1,500.0	1,490.1	1,100.7	1,100.0	3.7	2.4	-86.49	3,677.5	943.8	3,807.1	3,801.5	5.68	670.434		
1,600.0	1,587.5	1,145.0	1,144.0	4.1	2.5	-86.58	3,682.6	942.2	3,816.5	3,810.3	6.20	615.827		
1,700.0	1,684.6	1,188.8	1,187.3	4.5	2.6	-86.68	3,688.3	940.4	3,827.3	3,820.6	6.75	567.398		
1,750.0	1,732.9	1,210.4	1,208.7	4.8	2.7	-86.72	3,691.3	939.4	3,833.3	3,826.2	7.03	545.472		
1,800.0	1,781.2	1,380.6	1,376.1	5.0	3.3	-85.74	3,720.6	930.0	3,845.6	3,838.0	7.64	503.612		
1,900.0	1,877.8	1,380.6	1,376.1	5.5	3.3	-82.01	3,720.6	930.0	3,854.5	3,846.4	8.10	475.821		
1,981.2	1,956.2	1,380.6	1,376.1	5.9	3.3	-78.99	3,720.6	930.0	3,862.4	3,853.9	8.48	455.602		
2,000.0	1,974.4	1,380.6	1,376.1	6.0	3.3	-79.01	3,720.6	930.0	3,864.3	3,855.8	8.57	451.132		
2,100.0	2,071.3	1,380.6	1,376.1	6.4	3.3	-79.13	3,720.6	930.0	3,876.3	3,867.3	9.01	430.211		
2,181.5	2,150.7	1,411.4	1,406.2	6.7	3.4	-79.39	3,726.8	928.0	3,888.1	3,878.7	9.43	412.332		
2,200.0	2,168.6	1,428.7	1,423.1	6.8	3.5	-79.47	3,730.2	926.9	3,890.9	3,881.4	9.55	407.465		
2,300.0	2,266.1	1,522.5	1,514.8	7.3	3.8	-79.92	3,748.9	920.9	3,906.1	3,895.9	10.20	383.109		
2,400.0	2,363.5	1,616.2	1,606.5	7.7	4.2	-80.36	3,767.7	914.9	3,921.6	3,910.7	10.84	361.699		
2,500.0	2,461.0	1,709.9	1,698.1	8.1	4.6	-80.79	3,786.4	908.9	3,937.3	3,925.8	11.49	342.747		
2,600.0	2,558.4	1,803.7	1,789.8	8.6	5.0	-81.22	3,805.1	902.9	3,953.2	3,941.1	12.13	325.863		
2,700.0	2,655.8	1,897.4	1,881.4	9.0	5.3	-81.65	3,823.8	896.8	3,969.4	3,956.6	12.77	310.736		
2,800.0	2,753.3	1,991.2	1,973.1	9.4	5.7	-82.08	3,842.6	890.8	3,985.8	3,972.4	13.42	297.111		
2,900.0	2,850.7	2,084.9	2,064.8	9.9	6.1	-82.50	3,861.3	884.8	4,002.5	3,988.4	14.05	284.780		
3,000.0	2,948.2	2,178.7	2,156.4	10.3	6.5	-82.92	3,880.0	878.8	4,019.3	4,004.7	14.69	273.574		
3,100.0	3,045.6	2,272.4	2,248.1	10.7	6.8	-83.34	3,898.7	872.8	4,036.5	4,021.1	15.33	263.347		
3,200.0	3,143.0	2,366.2	2,339.7	11.2	7.2	-83.75	3,917.5	866.8	4,053.8	4,037.8	15.96	253.982		
3,300.0	3,240.5	2,459.9	2,431.4	11.6	7.6	-84.16	3,936.2	860.8	4,071.4	4,054.8	16.59	245.375		
3,400.0	3,337.9	2,553.7	2,523.0	12.0	8.0	-84.57	3,954.9	854.8	4,089.2	4,071.9	17.22	237.442		
3,500.0	3,435.3	2,647.4	2,614.7	12.5	8.4	-84.97	3,973.6	848.7	4,107.2	4,089.3	17.85	230.108		
3,600.0	3,532.8	2,741.1	2,706.4	12.9	8.7	-85.37	3,992.4	842.7	4,125.4	4,106.9	18.47	223.311		
3,700.0	3,630.2	2,834.9	2,798.0	13.3	9.1	-85.77	4,011.1	836.7	4,143.8	4,124.7	19.10	216.994		
3,800.0	3,727.7	2,928.6	2,889.7	13.8	9.5	-86.16	4,029.8	830.7	4,162.5	4,142.8	19.72	211.111		
3,900.0	3,825.1	3,022.4	2,981.3	14.2	9.9	-86.55	4,048.5	824.7	4,181.3	4,161.0	20.34	205.620		
4,000.0	3,922.5	3,116.1	3,073.0	14.6	10.2	-86.94	4,067.3	818.7	4,200.4	4,179.4	20.95	200.483		
4,100.0	4,020.0	3,209.9	3,164.7	15.1	10.6	-87.32	4,086.0	812.7	4,219.6	4,198.1	21.57	195.670		
4,200.0	4,117.4	3,303.6	3,256.3	15.5	11.0	-87.71	4,104.7	806.7	4,239.1	4,216.9	22.18	191.152		
4,300.0	4,214.9	3,397.4	3,348.0	16.0	11.4	-88.08	4,123.4	800.6	4,258.8	4,236.0	22.79	186.903		
4,400.0	4,312.3	3,491.1	3,439.6	16.4	11.7	-88.46	4,142.2	794.6	4,278.6	4,255.2	23.39	182.900		
4,500.0	4,409.7	3,584.8	3,531.3	16.8	12.1	-88.83	4,160.9	788.6	4,298.6	4,274.6	24.00	179.125		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,600.0	4,507.2	3,678.6	3,623.0	17.3	12.5	-89.20	4,179.6	782.6	4,318.9	4,294.3	24.60	175.559	
4,700.0	4,604.6	3,772.3	3,714.6	17.7	12.9	-89.56	4,198.3	776.6	4,339.3	4,314.1	25.20	172.185	
4,800.0	4,702.0	3,866.1	3,806.3	18.1	13.3	-89.92	4,217.1	770.6	4,359.8	4,334.0	25.80	168.989	
4,900.0	4,799.5	3,959.8	3,897.9	18.6	13.6	-90.28	4,235.8	764.6	4,380.6	4,354.2	26.40	165.959	
5,000.0	4,896.9	4,053.6	3,989.6	19.0	14.0	-90.64	4,254.5	758.6	4,401.6	4,374.6	26.99	163.081	
5,100.0	4,994.4	4,147.3	4,081.2	19.4	14.4	-90.99	4,273.2	752.5	4,422.7	4,395.1	27.58	160.346	
5,200.0	5,091.8	4,241.1	4,172.9	19.9	14.8	-91.34	4,292.0	746.5	4,444.0	4,415.8	28.17	157.743	
5,300.0	5,189.2	4,334.8	4,264.6	20.3	15.1	-91.69	4,310.7	740.5	4,465.4	4,436.7	28.76	155.264	
5,400.0	5,286.7	4,428.5	4,356.2	20.8	15.5	-92.03	4,329.4	734.5	4,487.1	4,457.7	29.35	152.901	
5,500.0	5,384.1	4,522.3	4,447.9	21.2	15.9	-92.37	4,348.1	728.5	4,508.9	4,478.9	29.93	150.645	
5,600.0	5,481.6	4,616.0	4,539.5	21.6	16.3	-92.71	4,366.9	722.5	4,530.8	4,500.3	30.51	148.490	
5,700.0	5,579.0	4,709.8	4,631.2	22.1	16.7	-93.04	4,385.6	716.5	4,552.9	4,521.9	31.09	146.430	
5,800.0	5,676.4	4,803.5	4,722.9	22.5	17.0	-93.37	4,404.3	710.5	4,575.2	4,543.6	31.67	144.459	
5,900.0	5,773.9	4,897.3	4,814.5	22.9	17.4	-93.70	4,423.0	704.4	4,597.7	4,565.4	32.25	142.571	
6,000.0	5,871.3	4,991.0	4,906.2	23.4	17.8	-94.03	4,441.8	698.4	4,620.2	4,587.4	32.82	140.762	
6,100.0	5,968.7	5,084.8	4,997.8	23.8	18.2	-94.35	4,460.5	692.4	4,643.0	4,609.6	33.40	139.027	
6,200.0	6,066.2	5,178.5	5,089.5	24.3	18.5	-94.67	4,479.2	686.4	4,665.9	4,631.9	33.97	137.362	
6,300.0	6,163.6	5,272.2	5,181.1	24.7	18.9	-94.99	4,497.9	680.4	4,688.9	4,654.4	34.54	135.762	
6,400.0	6,261.1	5,366.0	5,272.8	25.1	19.3	-95.30	4,516.7	674.4	4,712.1	4,677.0	35.11	134.225	
6,500.0	6,358.5	5,459.7	5,364.5	25.6	19.7	-95.61	4,535.4	668.4	4,735.4	4,699.7	35.67	132.747	
6,600.0	6,455.9	5,553.5	5,456.1	26.0	20.1	-95.92	4,554.1	662.4	4,758.9	4,722.6	36.24	131.324	
6,700.0	6,553.4	5,647.2	5,547.8	26.5	20.4	-96.22	4,572.8	656.3	4,782.5	4,745.7	36.80	129.955	
6,800.0	6,650.8	5,741.0	5,639.4	26.9	20.8	-96.53	4,591.6	650.3	4,806.2	4,768.8	37.36	128.635	
6,900.0	6,748.3	5,834.7	5,731.1	27.3	21.2	-96.83	4,610.3	644.3	4,830.1	4,792.1	37.92	127.363	
7,000.0	6,845.7	5,928.5	5,822.8	27.8	21.6	-97.12	4,629.0	638.3	4,854.1	4,815.6	38.48	126.136	
7,100.0	6,943.1	6,022.2	5,914.4	28.2	21.9	-97.42	4,647.7	632.3	4,878.2	4,839.2	39.04	124.951	
7,200.0	7,040.6	6,116.0	6,006.1	28.6	22.3	-97.71	4,666.5	626.3	4,902.5	4,862.9	39.60	123.808	
7,300.0	7,138.0	6,209.7	6,097.7	29.1	22.7	-98.00	4,685.2	620.3	4,926.8	4,886.7	40.15	122.703	
7,341.8	7,178.7	6,248.9	6,136.0	29.3	22.9	-98.12	4,693.0	617.7	4,937.1	4,896.7	40.38	122.252	
7,350.0	7,186.7	6,256.6	6,143.6	29.3	22.9	-94.56	4,694.6	617.3	4,939.0	4,898.6	40.43	122.170	
7,400.0	7,235.4	6,304.0	6,189.9	29.5	23.1	-74.21	4,704.0	614.2	4,948.5	4,907.9	40.55	122.048	
7,450.0	7,283.6	6,351.8	6,236.7	29.7	23.3	-58.57	4,713.6	611.1	4,953.7	4,913.3	40.41	122.581	
7,500.0	7,331.0	6,399.8	6,283.6	29.9	23.5	-47.84	4,723.2	608.1	4,954.6	4,914.6	40.03	123.759	
7,550.0	7,377.4	7,487.9	7,361.4	30.1	25.2	-44.19	4,836.2	571.8	4,950.7	4,909.8	40.87	121.119	
7,600.0	7,422.2	7,532.7	7,406.2	30.3	25.3	-39.52	4,836.2	571.8	4,933.4	4,893.3	40.12	122.963	
7,650.0	7,465.2	7,575.7	7,449.2	30.5	25.3	-36.43	4,836.2	571.8	4,912.2	4,873.0	39.19	125.335	
7,700.0	7,506.0	7,616.6	7,490.0	30.7	25.4	-34.46	4,836.2	571.8	4,887.2	4,849.1	38.13	128.189	
7,750.0	7,544.4	7,654.9	7,528.4	30.9	25.4	-33.34	4,836.2	571.8	4,858.7	4,821.8	36.97	131.436	
7,800.0	7,580.0	7,690.5	7,564.0	31.1	25.4	-32.95	4,836.2	571.8	4,826.9	4,791.2	35.78	134.923	
7,850.0	7,612.6	7,723.1	7,596.6	31.3	25.5	-33.22	4,836.2	571.8	4,792.0	4,757.4	34.63	138.387	
7,900.0	7,641.9	7,752.4	7,625.9	31.5	25.5	-34.20	4,836.2	571.8	4,754.3	4,720.7	33.62	141.413	
7,950.0	7,667.7	7,778.2	7,651.7	31.7	25.5	-35.97	4,836.2	571.8	4,714.0	4,681.1	32.88	143.383	
8,000.0	7,689.8	7,800.3	7,673.8	32.0	25.5	-38.76	4,836.2	571.8	4,671.5	4,639.0	32.57	143.451	
8,050.0	7,708.0	7,818.6	7,692.0	32.2	25.5	-42.96	4,836.2	571.8	4,627.1	4,594.2	32.90	140.625	
8,100.0	7,722.3	7,832.8	7,706.3	32.4	25.6	-49.23	4,836.2	571.8	4,581.1	4,547.0	34.16	134.092	
8,150.0	7,732.4	7,842.9	7,716.4	32.7	25.6	-58.66	4,836.2	571.8	4,533.9	4,497.3	36.56	124.019	
8,200.0	7,738.3	7,848.8	7,722.3	33.0	25.6	-72.75	4,836.2	571.8	4,485.8	4,446.1	39.74	112.870	
8,244.9	7,740.0	7,850.5	7,724.0	33.2	25.6	-90.00	4,836.2	571.8	4,442.2	4,400.5	41.72	106.478	
8,300.0	7,740.0	7,850.5	7,724.0	33.5	25.6	-90.00	4,836.2	571.8	4,388.5	4,346.1	42.34	103.651	
8,400.0	7,740.0	7,850.5	7,724.0	34.1	25.6	-90.00	4,836.2	571.8	4,291.1	4,247.6	43.54	98.562	
8,500.0	7,740.0	7,850.5	7,724.0	34.8	25.6	-90.00	4,836.2	571.8	4,193.9	4,149.1	44.82	93.577	
8,600.0	7,740.0	7,850.5	7,724.0	35.6	25.6	-90.00	4,836.2	571.8	4,096.8	4,050.6	46.16	88.743	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL												Offset Site Error:	0.0 ft
Survey Program: 775-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
8,700.0	7,740.0	7,850.5	7,724.0	36.5	25.6	-90.00	4,836.2	571.8	3,999.9	3,952.3	47.57	84.088	
8,800.0	7,740.0	7,850.5	7,724.0	37.4	25.6	-90.00	4,836.2	571.8	3,903.1	3,854.0	49.02	79.629	
8,900.0	7,740.0	7,850.5	7,724.0	38.3	25.6	-90.00	4,836.2	571.8	3,806.4	3,755.9	50.50	75.372	
9,000.0	7,740.0	7,850.5	7,724.0	39.4	25.6	-90.00	4,836.2	571.8	3,710.0	3,658.0	52.02	71.318	
9,100.0	7,740.0	7,850.5	7,724.0	40.4	25.6	-90.00	4,836.2	571.8	3,613.7	3,560.2	53.57	67.464	
9,200.0	7,740.0	7,850.5	7,724.0	41.6	25.6	-90.00	4,836.2	571.8	3,517.7	3,462.5	55.13	63.803	
9,300.0	7,740.0	7,850.5	7,724.0	42.7	25.6	-90.00	4,836.2	571.8	3,421.9	3,365.1	56.72	60.329	
9,400.0	7,740.0	7,850.5	7,724.0	43.9	25.6	-90.00	4,836.2	571.8	3,326.3	3,268.0	58.32	57.031	
9,500.0	7,740.0	7,850.5	7,724.0	45.2	25.6	-90.00	4,836.2	571.8	3,231.0	3,171.0	59.94	53.902	
9,600.0	7,740.0	7,850.5	7,724.0	46.4	25.6	-90.00	4,836.2	571.8	3,136.0	3,074.4	61.57	50.931	
9,700.0	7,740.0	7,850.5	7,724.0	47.7	25.6	-90.00	4,836.2	571.8	3,041.3	2,978.0	63.21	48.111	
9,800.0	7,740.0	7,850.5	7,724.0	49.1	25.6	-90.00	4,836.2	571.8	2,946.9	2,882.1	64.86	45.432	
9,900.0	7,740.0	7,850.5	7,724.0	50.4	25.6	-90.00	4,836.2	571.8	2,853.0	2,786.4	66.52	42.886	
10,000.0	7,740.0	7,850.5	7,724.0	51.8	25.6	-90.00	4,836.2	571.8	2,759.4	2,691.2	68.19	40.466	
10,100.0	7,740.0	7,850.5	7,724.0	53.2	25.6	-90.00	4,836.2	571.8	2,666.4	2,596.5	69.86	38.165	
10,200.0	7,740.0	7,850.5	7,724.0	54.6	25.6	-90.00	4,836.2	571.8	2,573.8	2,502.3	71.54	35.976	
10,300.0	7,740.0	7,850.5	7,724.0	56.1	25.6	-90.00	4,836.2	571.8	2,481.8	2,408.6	73.23	33.892	
10,400.0	7,740.0	7,850.5	7,724.0	57.6	25.6	-90.00	4,836.2	571.8	2,390.5	2,315.6	74.92	31.909	
10,500.0	7,740.0	7,850.5	7,724.0	59.0	25.6	-90.00	4,836.2	571.8	2,299.9	2,223.3	76.61	30.021	
10,600.0	7,740.0	7,850.5	7,724.0	60.5	25.6	-90.00	4,836.2	571.8	2,210.1	2,131.8	78.31	28.224	
10,700.0	7,740.0	7,850.5	7,724.0	62.0	25.6	-90.00	4,836.2	571.8	2,121.3	2,041.2	80.01	26.513	
10,800.0	7,740.0	7,850.5	7,724.0	63.5	25.6	-90.00	4,836.2	571.8	2,033.4	1,951.7	81.71	24.885	
10,900.0	7,740.0	7,850.5	7,724.0	65.1	25.6	-90.00	4,836.2	571.8	1,946.7	1,863.3	83.42	23.337	
11,000.0	7,740.0	7,850.5	7,724.0	66.6	25.6	-90.00	4,836.2	571.8	1,861.4	1,776.3	85.13	21.865	
11,100.0	7,740.0	7,850.5	7,724.0	68.2	25.6	-90.00	4,836.2	571.8	1,777.6	1,690.8	86.84	20.469	
11,200.0	7,740.0	7,850.5	7,724.0	69.7	25.6	-90.00	4,836.2	571.8	1,695.6	1,607.0	88.56	19.147	
11,300.0	7,740.0	7,850.5	7,724.0	71.3	25.6	-90.00	4,836.2	571.8	1,615.6	1,525.3	90.27	17.896	
11,400.0	7,740.0	7,850.5	7,724.0	72.9	25.6	-90.00	4,836.2	571.8	1,537.9	1,445.9	91.99	16.717	
11,500.0	7,740.0	7,850.5	7,724.0	74.5	25.6	-90.00	4,836.2	571.8	1,462.9	1,369.2	93.71	15.611	
11,600.0	7,740.0	7,850.5	7,724.0	76.1	25.6	-90.00	4,836.2	571.8	1,391.1	1,295.7	95.44	14.576	
11,700.0	7,740.0	7,850.5	7,724.0	77.7	25.6	-90.00	4,836.2	571.8	1,323.0	1,225.8	97.16	13.616	
11,800.0	7,740.0	7,850.5	7,724.0	79.3	25.6	-90.00	4,836.2	571.8	1,259.1	1,160.2	98.88	12.733	
11,900.0	7,740.0	7,850.5	7,724.0	80.9	25.6	-90.00	4,836.2	571.8	1,200.1	1,099.5	100.61	11.928	
12,000.0	7,740.0	7,850.5	7,724.0	82.5	25.6	-90.00	4,836.2	571.8	1,146.9	1,044.5	102.34	11.207	
12,100.0	7,740.0	7,850.5	7,724.0	84.2	25.6	-90.00	4,836.2	571.8	1,100.2	996.1	104.07	10.572	
12,200.0	7,740.0	7,850.5	7,724.0	85.8	25.6	-90.00	4,836.2	571.8	1,060.9	955.1	105.80	10.027	
12,300.0	7,740.0	7,850.5	7,724.0	87.4	25.6	-90.00	4,836.2	571.8	1,029.8	922.3	107.53	9.577	
12,400.0	7,740.0	7,850.5	7,724.0	89.1	25.6	-90.00	4,836.2	571.8	1,007.7	898.5	109.26	9.223	
12,500.0	7,740.0	7,850.5	7,724.0	90.7	25.6	-90.00	4,836.2	571.8	995.3	884.3	110.99	8.967	
12,574.8	7,740.0	7,850.5	7,724.0	91.9	25.6	-90.00	4,836.2	571.8	992.5	880.2	112.29	8.839 CC	
12,600.0	7,740.0	7,850.5	7,724.0	92.4	25.6	-90.00	4,836.2	571.8	992.8	880.1	112.73	8.807 ES	
12,700.0	7,740.0	7,850.5	7,724.0	94.0	25.6	-90.00	4,836.2	571.8	1,000.3	885.9	114.46	8.740 SF	
12,800.0	7,740.0	7,850.5	7,724.0	95.7	25.6	-90.00	4,836.2	571.8	1,017.7	901.5	116.19	8.759	
12,900.0	7,740.0	7,850.5	7,724.0	97.3	25.6	-90.00	4,836.2	571.8	1,044.4	926.5	117.93	8.856	
13,000.0	7,740.0	7,850.5	7,724.0	99.0	25.6	-90.00	4,836.2	571.8	1,079.7	960.1	119.67	9.023	
13,100.0	7,740.0	7,850.5	7,724.0	100.7	25.6	-90.00	4,836.2	571.8	1,122.9	1,001.5	121.40	9.249	
13,200.0	7,740.0	7,850.5	7,724.0	102.3	25.6	-90.00	4,836.2	571.8	1,173.0	1,049.8	123.14	9.525	
13,300.0	7,740.0	7,850.5	7,724.0	104.0	25.6	-90.00	4,836.2	571.8	1,229.2	1,104.3	124.88	9.843	
13,400.0	7,740.0	7,850.5	7,724.0	105.7	25.6	-90.00	4,836.2	571.8	1,290.7	1,164.1	126.62	10.194	
13,500.0	7,740.0	7,850.5	7,724.0	107.3	25.6	-90.00	4,836.2	571.8	1,356.9	1,228.5	128.36	10.571	
13,600.0	7,740.0	7,850.5	7,724.0	109.0	25.6	-90.00	4,836.2	571.8	1,426.9	1,296.8	130.10	10.968	
13,700.0	7,740.0	7,850.5	7,724.0	110.7	25.6	-90.00	4,836.2	571.8	1,500.4	1,368.5	131.84	11.380	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PL													Offset Site Error: 0.0 ft
Survey Program: 775-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,800.0	7,740.0	7,850.5	7,724.0	112.4	25.6	-90.00	4,836.2	571.8	1,576.8	1,443.2	133.58	11.804	
13,900.0	7,740.0	7,850.5	7,724.0	114.1	25.6	-90.00	4,836.2	571.8	1,655.7	1,520.3	135.32	12.235	
14,000.0	7,740.0	7,850.5	7,724.0	115.8	25.6	-90.00	4,836.2	571.8	1,736.7	1,599.7	137.06	12.671	
14,100.0	7,740.0	7,850.5	7,724.0	117.5	25.6	-90.00	4,836.2	571.8	1,819.7	1,680.9	138.80	13.110	
14,200.0	7,740.0	7,850.5	7,724.0	119.2	25.6	-90.00	4,836.2	571.8	1,904.3	1,763.8	140.55	13.549	
14,300.0	7,740.0	7,850.5	7,724.0	120.8	25.6	-90.00	4,836.2	571.8	1,990.3	1,848.0	142.29	13.988	
14,400.0	7,740.0	7,850.5	7,724.0	122.5	25.6	-90.00	4,836.2	571.8	2,077.6	1,933.6	144.03	14.425	
14,500.0	7,740.0	7,850.5	7,724.0	124.2	25.6	-90.00	4,836.2	571.8	2,166.0	2,020.2	145.78	14.858	
14,600.0	7,740.0	7,850.5	7,724.0	125.9	25.6	-90.00	4,836.2	571.8	2,255.3	2,107.8	147.52	15.288	
14,700.0	7,740.0	7,850.5	7,724.0	127.6	25.6	-90.00	4,836.2	571.8	2,345.5	2,196.3	149.26	15.714	
14,800.0	7,740.0	7,850.5	7,724.0	129.3	25.6	-90.00	4,836.2	571.8	2,436.5	2,285.5	151.01	16.135	
14,844.9	7,740.0	7,850.5	7,724.0	130.1	25.6	-90.00	4,836.2	571.8	2,477.6	2,325.8	151.79	16.322	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU														Offset Site Error:	0.0 ft
Survey Program: 76-Geolink MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	14.19	3,612.6	913.1	3,726.2						
100.0	100.0	653.0	649.8	0.2	1.5	14.67	3,559.8	931.9	3,723.0	3,721.4	1.63	2,280.939			
200.0	200.0	782.8	777.9	0.3	1.9	14.70	3,539.5	928.8	3,707.2	3,705.0	2.22	1,672.112			
250.0	250.0	835.1	829.5	0.4	2.1	14.70	3,531.3	926.7	3,699.2	3,696.7	2.47	1,497.391			
300.0	300.0	1,194.1	1,180.8	0.5	3.5	-85.44	3,460.9	907.0	3,688.4	3,685.8	2.63	1,402.778			
400.0	400.0	1,283.0	1,267.1	0.7	3.9	-85.71	3,439.8	902.0	3,664.0	3,661.0	2.95	1,241.793			
500.0	499.9	1,417.0	1,396.9	0.9	4.5	-86.05	3,408.0	893.3	3,639.1	3,635.7	3.35	1,086.122			
600.0	599.8	1,521.9	1,498.5	1.1	5.0	-86.43	3,382.8	885.1	3,613.5	3,609.8	3.71	974.793			
700.0	699.5	1,818.5	1,782.4	1.3	6.5	-87.16	3,301.5	859.8	3,582.9	3,578.5	4.40	814.625			
800.0	799.2	1,896.0	1,856.3	1.5	6.9	-87.61	3,278.6	853.8	3,551.9	3,547.2	4.75	748.224			
900.0	898.6	1,936.4	1,894.8	1.7	7.1	-88.00	3,267.1	850.9	3,521.9	3,516.9	5.05	697.037			
1,000.0	997.9	1,982.0	1,938.7	2.0	7.4	-88.40	3,254.8	847.5	3,493.4	3,488.0	5.39	648.198			
1,100.0	1,096.9	2,056.2	2,010.1	2.3	7.7	-88.90	3,235.8	841.0	3,465.8	3,460.0	5.80	597.516			
1,200.0	1,195.7	2,220.2	2,167.4	2.6	8.6	-89.73	3,191.8	826.5	3,436.9	3,430.5	6.40	537.120			
1,300.0	1,294.1	2,380.1	2,320.0	2.9	9.5	-90.62	3,146.6	811.9	3,406.8	3,399.8	7.03	484.464			
1,400.0	1,392.3	2,470.8	2,406.3	3.3	10.0	-91.33	3,120.2	802.5	3,375.9	3,368.3	7.58	445.542			
1,500.0	1,490.1	2,538.6	2,470.9	3.7	10.4	-91.95	3,100.7	795.8	3,345.6	3,337.5	8.11	412.437			
1,600.0	1,587.5	2,693.2	2,618.2	4.1	11.2	-93.00	3,055.7	782.5	3,315.8	3,306.9	8.85	374.509			
1,700.0	1,684.6	2,838.0	2,755.2	4.5	12.1	-94.07	3,010.3	770.2	3,283.7	3,274.1	9.63	341.034			
1,750.0	1,732.9	2,866.3	2,781.9	4.8	12.3	-94.40	3,001.3	767.5	3,267.6	3,257.7	9.94	328.889			
1,800.0	1,781.2	2,892.1	2,806.3	5.0	12.4	-92.68	2,993.3	765.0	3,251.7	3,241.5	10.23	317.802			
1,900.0	1,877.8	2,951.7	2,862.8	5.5	12.7	-89.29	2,975.3	759.4	3,219.5	3,208.7	10.85	296.829			
1,981.2	1,956.2	3,010.5	2,918.7	5.9	13.1	-86.59	2,957.7	754.5	3,192.9	3,181.5	11.37	280.774			
2,000.0	1,974.4	3,027.7	2,935.1	6.0	13.2	-86.63	2,952.6	753.2	3,186.6	3,175.1	11.50	277.118			
2,100.0	2,071.3	3,122.6	3,025.3	6.4	13.7	-86.83	2,924.6	744.2	3,153.6	3,141.4	12.16	259.253			
2,181.5	2,150.7	3,199.8	3,098.6	6.7	14.2	-87.00	2,901.8	736.0	3,126.7	3,114.0	12.69	246.332			
2,200.0	2,168.6	3,213.5	3,111.6	6.8	14.2	-87.07	2,897.7	734.6	3,120.7	3,107.9	12.81	243.664			
2,300.0	2,266.1	3,323.4	3,216.0	7.3	14.9	-87.70	2,865.3	723.6	3,088.3	3,074.7	13.53	228.173			
2,400.0	2,363.5	3,401.0	3,289.5	7.7	15.3	-88.17	2,842.0	714.7	3,055.4	3,041.2	14.19	215.350			
2,500.0	2,461.0	3,489.7	3,373.8	8.1	15.8	-88.71	2,816.0	705.2	3,023.4	3,008.6	14.88	203.183			
2,600.0	2,558.4	3,567.7	3,447.7	8.6	16.3	-89.20	2,792.9	696.6	2,991.5	2,976.0	15.55	192.361			
2,700.0	2,655.8	3,631.7	3,508.7	9.0	16.6	-89.60	2,774.5	689.5	2,960.8	2,944.6	16.19	182.914			
2,800.0	2,753.3	3,708.5	3,582.0	9.4	17.0	-90.10	2,753.0	681.0	2,930.9	2,914.1	16.87	173.747			
2,900.0	2,850.7	3,843.1	3,710.2	9.9	17.8	-90.96	2,714.6	667.2	2,901.1	2,883.3	17.73	163.608			
3,000.0	2,948.2	3,918.6	3,782.0	10.3	18.2	-91.43	2,692.3	661.0	2,870.7	2,852.3	18.40	156.035			
3,100.0	3,045.6	3,981.7	3,842.3	10.7	18.6	-91.81	2,674.2	656.4	2,841.4	2,822.4	19.02	149.362			
3,200.0	3,143.0	4,056.7	3,914.2	11.2	19.0	-92.26	2,653.4	651.4	2,813.3	2,793.6	19.69	142.892			
3,300.0	3,240.5	4,163.6	4,016.5	11.6	19.5	-92.93	2,623.4	643.4	2,785.2	2,764.7	20.48	136.026			
3,400.0	3,337.9	4,327.0	4,171.9	12.0	20.5	-94.04	2,575.2	628.6	2,755.8	2,734.3	21.51	128.145			
3,500.0	3,435.3	4,378.0	4,220.3	12.5	20.8	-94.40	2,560.0	624.0	2,726.5	2,704.3	22.13	123.210			
3,600.0	3,532.8	4,439.6	4,279.1	12.9	21.1	-94.82	2,542.3	618.7	2,698.6	2,675.8	22.79	118.410			
3,700.0	3,630.2	4,510.5	4,347.0	13.3	21.5	-95.32	2,522.6	612.9	2,672.1	2,648.6	23.49	113.767			
3,800.0	3,727.7	4,635.0	4,466.2	13.8	22.1	-96.18	2,488.1	603.6	2,646.0	2,621.6	24.39	108.506			
3,900.0	3,825.1	4,721.0	4,548.5	14.2	22.6	-96.75	2,463.6	598.7	2,619.4	2,594.3	25.11	104.322			
4,000.0	3,922.5	4,793.2	4,617.8	14.6	23.0	-97.22	2,443.4	595.9	2,593.6	2,567.8	25.78	100.595			
4,100.0	4,020.0	4,853.0	4,675.3	15.1	23.2	-97.60	2,427.3	593.5	2,568.9	2,542.5	26.42	97.229			
4,200.0	4,117.4	4,892.0	4,712.9	15.5	23.4	-97.86	2,417.2	591.7	2,546.0	2,519.0	26.99	94.325			
4,300.0	4,214.9	4,978.0	4,796.3	16.0	23.8	-98.44	2,396.4	587.9	2,524.8	2,497.0	27.72	91.077			
4,400.0	4,312.3	5,026.5	4,843.5	16.4	24.0	-98.76	2,385.5	586.0	2,505.1	2,476.8	28.31	88.472			
4,500.0	4,409.7	5,097.0	4,912.3	16.8	24.3	-99.21	2,370.2	583.8	2,486.7	2,457.7	28.98	85.808			
4,600.0	4,507.2	5,165.0	4,978.8	17.3	24.6	-99.65	2,356.1	581.7	2,469.6	2,439.9	29.64	83.329			
4,700.0	4,604.6	5,234.0	5,046.4	17.7	24.8	-100.10	2,342.5	579.6	2,453.8	2,423.5	30.30	80.990			

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												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
4,800.0	4,702.0	5,294.8	5,106.1	18.1	25.0	-100.50	2,331.3	577.9	2,439.4	2,408.5	30.92	78.891	
4,900.0	4,799.5	5,352.2	5,162.7	18.6	25.2	-100.86	2,321.6	576.6	2,426.8	2,395.3	31.53	76.971	
5,000.0	4,896.9	5,406.0	5,215.9	19.0	25.4	-101.20	2,313.5	575.7	2,416.0	2,383.9	32.12	75.218	
5,100.0	4,994.4	5,459.7	5,269.1	19.4	25.5	-101.53	2,306.2	574.8	2,407.2	2,374.5	32.71	73.599	
5,200.0	5,091.8	5,514.4	5,323.4	19.9	25.6	-101.86	2,299.9	574.0	2,400.4	2,367.1	33.29	72.098	
5,300.0	5,189.2	5,577.0	5,385.7	20.3	25.8	-102.24	2,293.8	573.1	2,395.5	2,361.6	33.90	70.666	
5,400.0	5,286.7	5,629.3	5,437.8	20.8	25.9	-102.55	2,289.5	572.3	2,392.4	2,357.9	34.47	69.396	
5,500.0	5,384.1	5,689.3	5,497.7	21.2	26.0	-102.91	2,285.5	571.1	2,391.1	2,356.1	35.07	68.181	
5,525.8	5,409.2	5,705.9	5,514.3	21.3	26.0	-103.01	2,284.5	570.7	2,391.1	2,355.9	35.23	67.877	
5,600.0	5,481.6	5,748.0	5,556.3	21.6	26.0	-103.26	2,282.4	569.8	2,391.5	2,355.9	35.66	67.064	
5,700.0	5,579.0	5,822.3	5,630.5	22.1	26.1	-103.71	2,279.3	568.2	2,393.4	2,357.1	36.29	65.960	
5,800.0	5,676.4	5,890.4	5,698.6	22.5	26.2	-104.11	2,277.5	566.6	2,396.7	2,359.8	36.89	64.966	
5,900.0	5,773.9	5,964.1	5,772.2	22.9	26.3	-104.54	2,276.3	564.9	2,401.3	2,363.8	37.51	64.018	
6,000.0	5,871.3	6,041.7	5,849.8	23.4	26.3	-104.99	2,275.6	562.9	2,407.0	2,368.8	38.14	63.114	
6,100.0	5,968.7	6,133.8	5,941.9	23.8	26.4	-105.52	2,275.4	560.3	2,413.6	2,374.8	38.79	62.215	
6,200.0	6,066.2	6,250.3	6,058.4	24.3	26.5	-106.18	2,274.8	557.7	2,419.9	2,380.4	39.50	61.269	
6,300.0	6,163.6	6,346.4	6,154.4	24.7	26.6	-106.71	2,274.0	556.3	2,426.1	2,385.9	40.13	60.456	
6,400.0	6,261.1	6,433.0	6,241.0	25.1	26.7	-107.17	2,273.6	555.4	2,432.6	2,391.9	40.73	59.718	
6,500.0	6,358.5	6,524.6	6,332.6	25.6	26.7	-107.66	2,273.5	554.6	2,439.6	2,398.3	41.35	59.006	
6,600.0	6,455.9	6,610.4	6,418.3	26.0	26.8	-108.10	2,273.8	553.7	2,447.4	2,405.4	41.94	58.354	
6,700.0	6,553.4	6,706.8	6,514.8	26.5	26.9	-108.61	2,274.3	552.6	2,455.5	2,413.0	42.56	57.699	
6,800.0	6,650.8	6,799.8	6,607.8	26.9	26.9	-109.10	2,274.8	551.2	2,464.0	2,420.8	43.16	57.083	
6,900.0	6,748.3	6,884.9	6,692.9	27.3	27.0	-109.54	2,275.6	549.8	2,472.9	2,429.2	43.75	56.520	
7,000.0	6,845.7	6,969.8	6,777.8	27.8	27.0	-109.99	2,276.6	548.1	2,482.6	2,438.3	44.34	55.992	
7,100.0	6,943.1	7,054.5	6,862.4	28.2	27.1	-110.43	2,278.1	546.3	2,492.9	2,448.0	44.92	55.499	
7,200.0	7,040.6	7,155.0	6,962.8	28.6	27.1	-110.95	2,280.1	543.8	2,503.9	2,458.3	45.54	54.988	
7,300.0	7,138.0	7,299.1	7,106.9	29.1	27.3	-111.74	2,280.6	539.1	2,513.7	2,467.5	46.26	54.338	
7,341.8	7,178.7	7,344.4	7,152.2	29.3	27.4	-111.99	2,280.2	537.5	2,517.5	2,471.0	46.53	54.110	
7,350.0	7,186.7	7,353.3	7,161.1	29.3	27.4	-108.46	2,280.1	537.2	2,518.2	2,471.6	46.62	54.017	
7,400.0	7,235.4	7,407.5	7,215.2	29.5	27.4	-88.34	2,279.6	535.4	2,520.0	2,472.9	47.07	53.539	
7,450.0	7,283.6	7,460.0	7,267.7	29.7	27.5	-73.04	2,279.0	533.8	2,517.7	2,470.4	47.30	53.226	
7,500.0	7,331.0	7,504.4	7,312.0	29.9	27.5	-62.72	2,278.5	532.6	2,511.4	2,464.1	47.30	53.091	
7,550.0	7,377.4	7,546.8	7,354.5	30.1	27.6	-56.04	2,278.2	531.6	2,501.3	2,454.2	47.11	53.098	
7,600.0	7,422.2	7,588.0	7,395.7	30.3	27.6	-51.79	2,278.0	530.7	2,487.4	2,440.7	46.73	53.230	
7,650.0	7,465.2	7,627.7	7,435.4	30.5	27.6	-49.22	2,277.9	530.0	2,470.0	2,423.8	46.20	53.465	
7,700.0	7,506.0	7,666.7	7,474.4	30.7	27.7	-47.87	2,277.9	529.5	2,449.1	2,403.5	45.54	53.775	
7,750.0	7,544.4	7,703.7	7,511.3	30.9	27.7	-47.50	2,277.9	529.0	2,424.9	2,380.1	44.81	54.116	
7,800.0	7,580.0	7,738.1	7,545.7	31.1	27.7	-47.96	2,278.0	528.7	2,397.6	2,353.6	44.04	54.436	
7,850.0	7,612.6	7,769.7	7,577.3	31.3	27.8	-49.19	2,278.2	528.4	2,367.5	2,324.2	43.31	54.663	
7,900.0	7,641.9	7,798.3	7,605.9	31.5	27.8	-51.19	2,278.4	528.2	2,334.7	2,292.0	42.67	54.713	
7,950.0	7,667.7	7,823.4	7,631.0	31.7	27.8	-53.98	2,278.6	528.1	2,299.6	2,257.4	42.20	54.490	
8,000.0	7,689.8	7,845.0	7,652.6	32.0	27.8	-57.63	2,278.7	528.0	2,262.4	2,220.5	41.97	53.904	
8,050.0	7,708.0	7,862.9	7,670.5	32.2	27.8	-62.20	2,278.9	527.9	2,223.5	2,181.5	42.03	52.906	
8,100.0	7,722.3	7,877.0	7,684.6	32.4	27.8	-67.75	2,279.0	527.9	2,183.1	2,140.7	42.37	51.529	
8,150.0	7,732.4	7,887.2	7,694.8	32.7	27.8	-74.28	2,279.1	527.8	2,141.6	2,098.6	42.91	49.909	
8,200.0	7,738.3	7,893.4	7,701.0	33.0	27.8	-81.67	2,279.2	527.8	2,099.2	2,055.7	43.50	48.257	
8,244.9	7,740.0	7,895.5	7,703.1	33.2	27.8	-88.86	2,279.2	527.8	2,060.7	2,016.8	43.93	46.912	
8,300.0	7,740.0	7,896.0	7,703.6	33.5	27.8	-88.89	2,279.2	527.8	2,013.5	1,968.9	44.55	45.197	
8,400.0	7,740.0	7,897.0	7,704.6	34.1	27.8	-88.94	2,279.2	527.8	1,928.8	1,883.1	45.75	42.160	
8,500.0	7,740.0	7,897.9	7,705.5	34.8	27.8	-88.99	2,279.2	527.8	1,845.8	1,798.7	47.03	39.243	
8,600.0	7,740.0	7,898.9	7,706.5	35.6	27.8	-89.05	2,279.2	527.8	1,764.4	1,716.0	48.39	36.466	
8,700.0	7,740.0	7,899.9	7,707.5	36.5	27.8	-89.10	2,279.2	527.8	1,685.1	1,635.3	49.79	33.844	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU												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
8,800.0	7,740.0	7,900.8	7,708.5	37.4	27.8	-89.15	2,279.2	527.8	1,608.1	1,556.9	51.24	31.382	
8,900.0	7,740.0	7,901.8	7,709.4	38.3	27.8	-89.21	2,279.3	527.8	1,533.7	1,481.0	52.73	29.086	
9,000.0	7,740.0	7,902.8	7,710.4	39.4	27.9	-89.26	2,279.3	527.8	1,462.5	1,408.2	54.25	26.956	
9,100.0	7,740.0	7,903.8	7,711.4	40.4	27.9	-89.31	2,279.3	527.8	1,394.7	1,338.9	55.80	24.994	
9,200.0	7,740.0	7,904.8	7,712.4	41.6	27.9	-89.37	2,279.3	527.8	1,331.0	1,273.6	57.37	23.200	
9,300.0	7,740.0	7,905.8	7,713.4	42.7	27.9	-89.42	2,279.3	527.8	1,272.0	1,213.0	58.96	21.574	
9,400.0	7,740.0	7,906.8	7,714.4	43.9	27.9	-89.48	2,279.3	527.8	1,218.3	1,157.8	60.56	20.116	
9,500.0	7,740.0	7,907.8	7,715.5	45.2	27.9	-89.53	2,279.3	527.8	1,170.8	1,108.6	62.18	18.827	
9,600.0	7,740.0	7,908.9	7,716.5	46.4	27.9	-89.59	2,279.3	527.8	1,130.1	1,066.3	63.82	17.708	
9,700.0	7,740.0	7,909.9	7,717.5	47.7	27.9	-89.65	2,279.3	527.8	1,097.0	1,031.5	65.46	16.758	
9,800.0	7,740.0	7,910.9	7,718.5	49.1	27.9	-89.70	2,279.4	527.8	1,072.3	1,005.2	67.11	15.977	
9,900.0	7,740.0	7,912.0	7,719.6	50.4	27.9	-89.76	2,279.4	527.8	1,056.5	987.7	68.77	15.362	
10,000.0	7,740.0	7,913.0	7,720.6	51.8	27.9	-89.82	2,279.4	527.8	1,050.0	979.6	70.44	14.906	
10,018.2	7,740.0	7,913.2	7,720.8	52.1	27.9	-89.83	2,279.4	527.8	1,049.9	979.1	70.75	14.840 CC, ES	
10,100.0	7,740.0	7,914.1	7,721.7	53.2	27.9	-89.87	2,279.4	527.8	1,053.0	980.9	72.12	14.602	
10,200.0	7,740.0	7,915.1	7,722.7	54.6	27.9	-89.93	2,279.4	527.8	1,065.5	991.7	73.80	14.438	
10,300.0	7,740.0	7,916.2	7,723.8	56.1	27.9	-89.99	2,279.4	527.7	1,087.0	1,011.5	75.48	14.401 SF	
10,400.0	7,740.0	7,917.3	7,724.9	57.6	27.9	-90.05	2,279.4	527.7	1,117.1	1,040.0	77.17	14.476	
10,500.0	7,740.0	7,918.4	7,726.0	59.0	27.9	-90.11	2,279.4	527.7	1,155.1	1,076.3	78.87	14.646	
10,600.0	7,740.0	7,919.4	7,727.1	60.5	27.9	-90.17	2,279.4	527.7	1,200.3	1,119.7	80.57	14.898	
10,700.0	7,740.0	7,920.5	7,728.1	62.0	27.9	-90.23	2,279.4	527.7	1,251.8	1,169.6	82.27	15.216	
10,800.0	7,740.0	7,921.6	7,729.2	63.5	27.9	-90.29	2,279.5	527.7	1,309.0	1,225.0	83.97	15.588	
10,900.0	7,740.0	7,922.7	7,730.3	65.1	27.9	-90.35	2,279.5	527.7	1,371.0	1,285.4	85.68	16.002	
11,000.0	7,740.0	7,923.8	7,731.5	66.6	27.9	-90.41	2,279.5	527.7	1,437.4	1,350.0	87.39	16.448	
11,100.0	7,740.0	7,925.0	7,732.6	68.2	27.9	-90.47	2,279.5	527.7	1,507.5	1,418.4	89.10	16.918	
11,200.0	7,740.0	7,926.1	7,733.7	69.7	27.9	-90.53	2,279.5	527.7	1,580.8	1,489.9	90.82	17.406	
11,300.0	7,740.0	7,927.2	7,734.8	71.3	27.9	-90.59	2,279.5	527.7	1,656.8	1,564.3	92.53	17.905	
11,400.0	7,740.0	7,928.4	7,736.0	72.9	27.9	-90.65	2,279.5	527.7	1,735.4	1,641.1	94.25	18.412	
11,500.0	7,740.0	7,929.5	7,737.1	74.5	27.9	-90.72	2,279.5	527.7	1,816.0	1,720.0	95.97	18.922	
11,600.0	7,740.0	7,930.7	7,738.3	76.1	27.9	-90.78	2,279.6	527.7	1,898.5	1,800.8	97.70	19.432	
11,700.0	7,740.0	7,931.8	7,739.4	77.7	27.9	-90.84	2,279.6	527.7	1,982.5	1,883.1	99.42	19.941	
11,800.0	7,740.0	7,933.0	7,740.6	79.3	27.9	-90.91	2,279.6	527.7	2,068.0	1,966.9	101.14	20.447	
11,900.0	7,740.0	7,934.2	7,741.8	80.9	27.9	-90.97	2,279.6	527.7	2,154.8	2,051.9	102.87	20.947	
12,000.0	7,740.0	7,935.3	7,743.0	82.5	27.9	-91.03	2,279.6	527.7	2,242.6	2,138.0	104.59	21.441	
12,100.0	7,740.0	7,936.5	7,744.1	84.2	27.9	-91.10	2,279.6	527.7	2,331.5	2,225.1	106.32	21.929	
12,200.0	7,740.0	7,937.7	7,745.3	85.8	27.9	-91.16	2,279.6	527.7	2,421.2	2,313.1	108.05	22.408	
12,300.0	7,740.0	7,938.9	7,746.5	87.4	27.9	-91.23	2,279.6	527.7	2,511.6	2,401.9	109.78	22.879	
12,400.0	7,740.0	7,940.2	7,747.8	89.1	27.9	-91.30	2,279.7	527.7	2,602.8	2,491.3	111.51	23.342	
12,500.0	7,740.0	7,941.4	7,749.0	90.7	27.9	-91.36	2,279.7	527.7	2,694.6	2,581.4	113.24	23.796	
12,600.0	7,740.0	7,942.6	7,750.2	92.4	27.9	-91.43	2,279.7	527.7	2,787.0	2,672.0	114.97	24.241	
12,700.0	7,740.0	7,943.8	7,751.4	94.0	27.9	-91.50	2,279.7	527.7	2,879.9	2,763.2	116.70	24.677	
12,800.0	7,740.0	7,945.1	7,752.7	95.7	27.9	-91.57	2,279.7	527.7	2,973.2	2,854.8	118.43	25.105	
12,900.0	7,740.0	7,946.3	7,753.9	97.3	27.9	-91.63	2,279.7	527.7	3,066.9	2,946.8	120.16	25.523	
13,000.0	7,740.0	7,947.6	7,755.2	99.0	27.9	-91.70	2,279.7	527.7	3,161.1	3,039.2	121.90	25.932	
13,100.0	7,740.0	7,948.9	7,756.5	100.7	27.9	-91.77	2,279.8	527.7	3,255.6	3,131.9	123.63	26.333	
13,200.0	7,740.0	7,950.1	7,757.7	102.3	27.9	-91.84	2,279.8	527.7	3,350.4	3,225.0	125.36	26.725	
13,300.0	7,740.0	7,951.4	7,759.0	104.0	27.9	-91.91	2,279.8	527.7	3,445.5	3,318.4	127.10	27.109	
13,400.0	7,740.0	7,952.7	7,760.3	105.7	27.9	-91.98	2,279.8	527.6	3,540.8	3,412.0	128.83	27.485	
13,500.0	7,740.0	7,954.0	7,761.6	107.3	27.9	-92.05	2,279.8	527.6	3,636.5	3,505.9	130.56	27.852	
13,600.0	7,740.0	7,955.3	7,762.9	109.0	27.9	-92.12	2,279.8	527.6	3,732.3	3,600.0	132.30	28.211	
13,700.0	7,740.0	7,956.6	7,764.2	110.7	27.9	-92.19	2,279.8	527.6	3,828.4	3,694.3	134.03	28.563	
13,800.0	7,740.0	7,958.0	7,765.6	112.4	27.9	-92.27	2,279.9	527.6	3,924.6	3,788.9	135.77	28.907	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SU													Offset Site Error: 0.0 ft
Survey Program: 76-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,900.0	7,740.0	7,959.3	7,766.9	114.1	27.9	-92.34	2,279.9	527.6	4,021.1	3,883.6	137.50	29.244	
14,000.0	7,740.0	7,960.6	7,768.2	115.8	27.9	-92.41	2,279.9	527.6	4,117.7	3,978.4	139.23	29.574	
14,100.0	7,740.0	7,962.0	7,769.6	117.5	27.9	-92.49	2,279.9	527.6	4,214.4	4,073.5	140.97	29.896	
14,200.0	7,740.0	7,963.4	7,771.0	119.2	27.9	-92.56	2,279.9	527.6	4,311.4	4,168.7	142.70	30.212	
14,300.0	7,740.0	7,964.7	7,772.3	120.8	27.9	-92.64	2,279.9	527.6	4,408.4	4,264.0	144.44	30.522	
14,400.0	7,740.0	7,966.1	7,773.7	122.5	27.9	-92.71	2,280.0	527.6	4,505.6	4,359.4	146.17	30.824	
14,500.0	7,740.0	7,967.5	7,775.1	124.2	27.9	-92.79	2,280.0	527.6	4,602.9	4,455.0	147.90	31.121	
14,600.0	7,740.0	7,968.9	7,776.5	125.9	27.9	-92.86	2,280.0	527.6	4,700.3	4,550.7	149.64	31.412	
14,700.0	7,740.0	7,970.3	7,777.9	127.6	27.9	-92.94	2,280.0	527.6	4,797.8	4,646.4	151.37	31.696	
14,800.0	7,740.0	7,971.7	7,779.3	129.3	27.9	-93.02	2,280.0	527.6	4,895.4	4,742.3	153.10	31.975	
14,844.9	7,740.0	7,972.4	7,780.0	130.1	27.9	-93.05	2,280.0	527.6	4,939.2	4,785.4	153.88	32.098	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,740.0	7,693.0	7,693.0	38.3	13.4	-90.00	6,294.0	661.5	5,209.5	5,170.3	39.19	132.923		
9,000.0	7,740.0	7,693.0	7,693.0	39.4	13.4	-90.00	6,294.0	661.5	5,111.0	5,070.3	40.71	125.546		
9,100.0	7,740.0	7,693.0	7,693.0	40.4	13.4	-90.00	6,294.0	661.5	5,012.6	4,970.3	42.26	118.627		
9,200.0	7,740.0	7,693.0	7,693.0	41.6	13.4	-90.00	6,294.0	661.5	4,914.2	4,870.4	43.82	112.139		
9,300.0	7,740.0	7,693.0	7,693.0	42.7	13.4	-90.00	6,294.0	661.5	4,816.0	4,770.5	45.41	106.055		
9,400.0	7,740.0	7,693.0	7,693.0	43.9	13.4	-90.00	6,294.0	661.5	4,717.7	4,670.7	47.01	100.348		
9,500.0	7,740.0	7,693.0	7,693.0	45.2	13.4	-90.00	6,294.0	661.5	4,619.6	4,571.0	48.63	94.991		
9,600.0	7,740.0	7,693.0	7,693.0	46.4	13.4	-90.00	6,294.0	661.5	4,521.5	4,471.3	50.26	89.959		
9,700.0	7,740.0	7,693.0	7,693.0	47.7	13.4	-90.00	6,294.0	661.5	4,423.5	4,371.6	51.90	85.226		
9,800.0	7,740.0	7,693.0	7,693.0	49.1	13.4	-90.00	6,294.0	661.5	4,325.7	4,272.1	53.55	80.771		
9,900.0	7,740.0	7,693.0	7,693.0	50.4	13.4	-90.00	6,294.0	661.5	4,227.9	4,172.7	55.21	76.573		
10,000.0	7,740.0	7,693.0	7,693.0	51.8	13.4	-90.00	6,294.0	661.5	4,130.2	4,073.3	56.88	72.612		
10,100.0	7,740.0	7,693.0	7,693.0	53.2	13.4	-90.00	6,294.0	661.5	4,032.6	3,974.1	58.55	68.871		
10,200.0	7,740.0	7,693.0	7,693.0	54.6	13.4	-90.00	6,294.0	661.5	3,935.2	3,875.0	60.23	65.333		
10,300.0	7,740.0	7,693.0	7,693.0	56.1	13.4	-90.00	6,294.0	661.5	3,837.9	3,776.0	61.92	61.984		
10,400.0	7,740.0	7,693.0	7,693.0	57.6	13.4	-90.00	6,294.0	661.5	3,740.7	3,677.1	63.61	58.810		
10,500.0	7,740.0	7,693.0	7,693.0	59.0	13.4	-90.00	6,294.0	661.5	3,643.7	3,578.4	65.30	55.799		
10,600.0	7,740.0	7,693.0	7,693.0	60.5	13.4	-90.00	6,294.0	661.5	3,546.8	3,479.8	67.00	52.939		
10,700.0	7,740.0	7,693.0	7,693.0	62.0	13.4	-90.00	6,294.0	661.5	3,450.2	3,381.5	68.70	50.221		
10,800.0	7,740.0	7,693.0	7,693.0	63.5	13.4	-90.00	6,294.0	661.5	3,353.7	3,283.3	70.40	47.635		
10,900.0	7,740.0	7,693.0	7,693.0	65.1	13.4	-90.00	6,294.0	661.5	3,257.4	3,185.3	72.11	45.173		
11,000.0	7,740.0	7,693.0	7,693.0	66.6	13.4	-90.00	6,294.0	661.5	3,161.4	3,087.6	73.82	42.826		
11,100.0	7,740.0	7,693.0	7,693.0	68.2	13.4	-90.00	6,294.0	661.5	3,065.6	2,990.1	75.53	40.587		
11,200.0	7,740.0	7,693.0	7,693.0	69.7	13.4	-90.00	6,294.0	661.5	2,970.1	2,892.9	77.25	38.450		
11,300.0	7,740.0	7,693.0	7,693.0	71.3	13.4	-90.00	6,294.0	661.5	2,874.9	2,796.0	78.96	36.408		
11,400.0	7,740.0	7,693.0	7,693.0	72.9	13.4	-90.00	6,294.0	661.5	2,780.1	2,699.4	80.68	34.457		
11,500.0	7,740.0	7,693.0	7,693.0	74.5	13.4	-90.00	6,294.0	661.5	2,685.6	2,603.2	82.40	32.591		
11,600.0	7,740.0	7,693.0	7,693.0	76.1	13.4	-90.00	6,294.0	661.5	2,591.5	2,507.4	84.13	30.806		
11,700.0	7,740.0	7,693.0	7,693.0	77.7	13.4	-90.00	6,294.0	661.5	2,497.9	2,412.1	85.85	29.097		
11,800.0	7,740.0	7,693.0	7,693.0	79.3	13.4	-90.00	6,294.0	661.5	2,404.8	2,317.3	87.57	27.461		
11,900.0	7,740.0	7,693.0	7,693.0	80.9	13.4	-90.00	6,294.0	661.5	2,312.3	2,223.0	89.30	25.894		
12,000.0	7,740.0	7,693.0	7,693.0	82.5	13.4	-90.00	6,294.0	661.5	2,220.5	2,129.4	91.03	24.393		
12,100.0	7,740.0	7,693.0	7,693.0	84.2	13.4	-90.00	6,294.0	661.5	2,129.3	2,036.6	92.76	22.956		
12,200.0	7,740.0	7,693.0	7,693.0	85.8	13.4	-90.00	6,294.0	661.5	2,039.0	1,944.5	94.49	21.580		
12,300.0	7,740.0	7,693.0	7,693.0	87.4	13.4	-90.00	6,294.0	661.5	1,949.7	1,853.4	96.22	20.263		
12,400.0	7,740.0	7,693.0	7,693.0	89.1	13.4	-90.00	6,294.0	661.5	1,861.4	1,763.4	97.95	19.004		
12,500.0	7,740.0	7,693.0	7,693.0	90.7	13.4	-90.00	6,294.0	661.5	1,774.4	1,674.7	99.68	17.800		
12,600.0	7,740.0	7,693.0	7,693.0	92.4	13.4	-90.00	6,294.0	661.5	1,688.8	1,587.4	101.42	16.652		
12,700.0	7,740.0	7,693.0	7,693.0	94.0	13.4	-90.00	6,294.0	661.5	1,604.9	1,501.7	103.15	15.559		
12,800.0	7,740.0	7,693.0	7,693.0	95.7	13.4	-90.00	6,294.0	661.5	1,522.9	1,418.0	104.88	14.520		
12,900.0	7,740.0	7,693.0	7,693.0	97.3	13.4	-90.00	6,294.0	661.5	1,443.2	1,336.6	106.62	13.536		
13,000.0	7,740.0	7,693.0	7,693.0	99.0	13.4	-90.00	6,294.0	661.5	1,366.1	1,257.8	108.36	12.608		
13,100.0	7,740.0	7,693.0	7,693.0	100.7	13.4	-90.00	6,294.0	661.5	1,292.3	1,182.2	110.09	11.738		
13,200.0	7,740.0	7,693.0	7,693.0	102.3	13.4	-90.00	6,294.0	661.5	1,222.1	1,110.3	111.83	10.928		
13,300.0	7,740.0	7,693.0	7,693.0	104.0	13.4	-90.00	6,294.0	661.5	1,156.3	1,042.8	113.57	10.182		
13,400.0	7,740.0	7,693.0	7,693.0	105.7	13.4	-90.00	6,294.0	661.5	1,095.8	980.5	115.31	9.503		
13,500.0	7,740.0	7,693.0	7,693.0	107.3	13.4	-90.00	6,294.0	661.5	1,041.3	924.3	117.05	8.896		
13,600.0	7,740.0	7,693.0	7,693.0	109.0	13.4	-90.00	6,294.0	661.5	993.9	875.1	118.79	8.367		
13,700.0	7,740.0	7,693.0	7,693.0	110.7	13.4	-90.00	6,294.0	661.5	954.7	834.2	120.53	7.921		
13,800.0	7,740.0	7,693.0	7,693.0	112.4	13.4	-90.00	6,294.0	661.5	924.7	802.4	122.27	7.563		
13,900.0	7,740.0	7,693.0	7,693.0	114.1	13.4	-90.00	6,294.0	661.5	904.8	780.8	124.01	7.296		
14,000.0	7,740.0	7,693.0	7,693.0	115.8	13.4	-90.00	6,294.0	661.5	895.7	769.9	125.75	7.123		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error:	0.0 ft
Survey Program: 8164-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,032.0	7,740.0	7,693.0	7,693.0	116.3	13.4	-90.00	6,294.0	661.5	895.1	768.8	126.31	7.087	CC, ES	
14,100.0	7,740.0	7,693.0	7,693.0	117.5	13.4	-90.00	6,294.0	661.5	897.7	770.2	127.49	7.041	SF	
14,200.0	7,740.0	7,693.0	7,693.0	119.2	13.4	-90.00	6,294.0	661.5	910.8	781.5	129.24	7.047		
14,300.0	7,740.0	7,693.0	7,693.0	120.8	13.4	-90.00	6,294.0	661.5	934.4	803.4	130.98	7.134		
14,400.0	7,740.0	7,693.0	7,693.0	122.5	13.4	-90.00	6,294.0	661.5	967.8	835.1	132.72	7.292		
14,500.0	7,740.0	7,693.0	7,693.0	124.2	13.4	-90.00	6,294.0	661.5	1,010.1	875.6	134.47	7.512		
14,600.0	7,740.0	7,693.0	7,693.0	125.9	13.4	-90.00	6,294.0	661.5	1,060.1	923.9	136.21	7.783		
14,700.0	7,740.0	7,693.0	7,693.0	127.6	13.4	-90.00	6,294.0	661.5	1,116.9	978.9	137.95	8.096		
14,800.0	7,740.0	7,693.0	7,693.0	129.3	13.4	-90.00	6,294.0	661.5	1,179.4	1,039.7	139.70	8.443		
14,844.9	7,740.0	7,693.0	7,693.0	130.1	13.4	-90.00	6,294.0	661.5	1,209.1	1,068.6	140.48	8.607		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S										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		
8,244.9	7,740.0	7,697.0	7,697.0	33.2	13.4	-90.00	5,531.2	32.2	5,254.9	5,224.4	30.42	172.764		
8,300.0	7,740.0	7,697.0	7,697.0	33.5	13.4	-90.00	5,531.2	32.2	5,202.1	5,171.1	31.04	167.617		
8,400.0	7,740.0	7,697.0	7,697.0	34.1	13.4	-90.00	5,531.2	32.2	5,106.6	5,074.4	32.23	158.423		
8,500.0	7,740.0	7,697.0	7,697.0	34.8	13.4	-90.00	5,531.2	32.2	5,011.3	4,977.8	33.51	149.527		
8,600.0	7,740.0	7,697.0	7,697.0	35.6	13.4	-90.00	5,531.2	32.2	4,916.2	4,881.3	34.86	141.019		
8,700.0	7,740.0	7,697.0	7,697.0	36.5	13.4	-90.00	5,531.2	32.2	4,821.2	4,784.9	36.26	132.947		
8,800.0	7,740.0	7,697.0	7,697.0	37.4	13.4	-90.00	5,531.2	32.2	4,726.5	4,688.8	37.71	125.329		
8,900.0	7,740.0	7,697.0	7,697.0	38.3	13.4	-90.00	5,531.2	32.2	4,632.0	4,592.8	39.20	118.165		
9,000.0	7,740.0	7,697.0	7,697.0	39.4	13.4	-90.00	5,531.2	32.2	4,537.7	4,497.0	40.72	111.444		
9,100.0	7,740.0	7,697.0	7,697.0	40.4	13.4	-90.00	5,531.2	32.2	4,443.7	4,401.4	42.26	105.145		
9,200.0	7,740.0	7,697.0	7,697.0	41.6	13.4	-90.00	5,531.2	32.2	4,349.9	4,306.1	43.83	99.245		
9,300.0	7,740.0	7,697.0	7,697.0	42.7	13.4	-90.00	5,531.2	32.2	4,256.4	4,211.0	45.42	93.719		
9,400.0	7,740.0	7,697.0	7,697.0	43.9	13.4	-90.00	5,531.2	32.2	4,163.2	4,116.2	47.02	88.541		
9,500.0	7,740.0	7,697.0	7,697.0	45.2	13.4	-90.00	5,531.2	32.2	4,070.4	4,021.7	48.64	83.686		
9,600.0	7,740.0	7,697.0	7,697.0	46.4	13.4	-90.00	5,531.2	32.2	3,977.9	3,927.6	50.27	79.132		
9,700.0	7,740.0	7,697.0	7,697.0	47.7	13.4	-90.00	5,531.2	32.2	3,885.7	3,833.8	51.91	74.855		
9,800.0	7,740.0	7,697.0	7,697.0	49.1	13.4	-90.00	5,531.2	32.2	3,794.0	3,740.4	53.56	70.835		
9,900.0	7,740.0	7,697.0	7,697.0	50.4	13.4	-90.00	5,531.2	32.2	3,702.7	3,647.5	55.22	67.053		
10,000.0	7,740.0	7,697.0	7,697.0	51.8	13.4	-90.00	5,531.2	32.2	3,611.9	3,555.0	56.89	63.491		
10,100.0	7,740.0	7,697.0	7,697.0	53.2	13.4	-90.00	5,531.2	32.2	3,521.5	3,462.9	58.56	60.134		
10,200.0	7,740.0	7,697.0	7,697.0	54.6	13.4	-90.00	5,531.2	32.2	3,431.7	3,371.4	60.24	56.967		
10,300.0	7,740.0	7,697.0	7,697.0	56.1	13.4	-90.00	5,531.2	32.2	3,342.5	3,280.5	61.92	53.976		
10,400.0	7,740.0	7,697.0	7,697.0	57.6	13.4	-90.00	5,531.2	32.2	3,253.8	3,190.2	63.61	51.150		
10,500.0	7,740.0	7,697.0	7,697.0	59.0	13.4	-90.00	5,531.2	32.2	3,165.9	3,100.6	65.31	48.477		
10,600.0	7,740.0	7,697.0	7,697.0	60.5	13.4	-90.00	5,531.2	32.2	3,078.7	3,011.7	67.01	45.947		
10,700.0	7,740.0	7,697.0	7,697.0	62.0	13.4	-90.00	5,531.2	32.2	2,992.3	2,923.6	68.71	43.552		
10,800.0	7,740.0	7,697.0	7,697.0	63.5	13.4	-90.00	5,531.2	32.2	2,906.8	2,836.4	70.41	41.284		
10,900.0	7,740.0	7,697.0	7,697.0	65.1	13.4	-90.00	5,531.2	32.2	2,822.2	2,750.1	72.12	39.134		
11,000.0	7,740.0	7,697.0	7,697.0	66.6	13.4	-90.00	5,531.2	32.2	2,738.7	2,664.9	73.83	37.096		
11,100.0	7,740.0	7,697.0	7,697.0	68.2	13.4	-90.00	5,531.2	32.2	2,656.3	2,580.8	75.54	35.164		
11,200.0	7,740.0	7,697.0	7,697.0	69.7	13.4	-90.00	5,531.2	32.2	2,575.2	2,497.9	77.25	33.333		
11,300.0	7,740.0	7,697.0	7,697.0	71.3	13.4	-90.00	5,531.2	32.2	2,495.4	2,416.4	78.97	31.599		
11,400.0	7,740.0	7,697.0	7,697.0	72.9	13.4	-90.00	5,531.2	32.2	2,417.1	2,336.4	80.69	29.956		
11,500.0	7,740.0	7,697.0	7,697.0	74.5	13.4	-90.00	5,531.2	32.2	2,340.5	2,258.1	82.41	28.401		
11,600.0	7,740.0	7,697.0	7,697.0	76.1	13.4	-90.00	5,531.2	32.2	2,265.7	2,181.6	84.13	26.930		
11,700.0	7,740.0	7,697.0	7,697.0	77.7	13.4	-90.00	5,531.2	32.2	2,192.9	2,107.1	85.86	25.542		
11,800.0	7,740.0	7,697.0	7,697.0	79.3	13.4	-90.00	5,531.2	32.2	2,122.4	2,034.8	87.58	24.233		
11,900.0	7,740.0	7,697.0	7,697.0	80.9	13.4	-90.00	5,531.2	32.2	2,054.2	1,964.9	89.31	23.002		
12,000.0	7,740.0	7,697.0	7,697.0	82.5	13.4	-90.00	5,531.2	32.2	1,988.8	1,897.8	91.03	21.847		
12,100.0	7,740.0	7,697.0	7,697.0	84.2	13.4	-90.00	5,531.2	32.2	1,926.4	1,833.6	92.76	20.766		
12,200.0	7,740.0	7,697.0	7,697.0	85.8	13.4	-90.00	5,531.2	32.2	1,867.2	1,772.7	94.49	19.760		
12,300.0	7,740.0	7,697.0	7,697.0	87.4	13.4	-90.00	5,531.2	32.2	1,811.6	1,715.4	96.22	18.827		
12,400.0	7,740.0	7,697.0	7,697.0	89.1	13.4	-90.00	5,531.2	32.2	1,759.9	1,662.0	97.96	17.966		
12,500.0	7,740.0	7,697.0	7,697.0	90.7	13.4	-90.00	5,531.2	32.2	1,712.5	1,612.9	99.69	17.179		
12,600.0	7,740.0	7,697.0	7,697.0	92.4	13.4	-90.00	5,531.2	32.2	1,669.8	1,568.4	101.42	16.464		
12,700.0	7,740.0	7,697.0	7,697.0	94.0	13.4	-90.00	5,531.2	32.2	1,632.1	1,529.0	103.16	15.822		
12,800.0	7,740.0	7,697.0	7,697.0	95.7	13.4	-90.00	5,531.2	32.2	1,599.8	1,494.9	104.89	15.252		
12,900.0	7,740.0	7,697.0	7,697.0	97.3	13.4	-90.00	5,531.2	32.2	1,573.1	1,466.5	106.63	14.754		
13,000.0	7,740.0	7,697.0	7,697.0	99.0	13.4	-90.00	5,531.2	32.2	1,552.5	1,444.1	108.36	14.327		
13,100.0	7,740.0	7,697.0	7,697.0	100.7	13.4	-90.00	5,531.2	32.2	1,538.1	1,428.0	110.10	13.970		
13,200.0	7,740.0	7,697.0	7,697.0	102.3	13.4	-90.00	5,531.2	32.2	1,530.1	1,418.3	111.84	13.681		
13,272.5	7,740.0	7,697.0	7,697.0	103.5	13.4	-90.00	5,531.2	32.2	1,528.4	1,415.3	113.10	13.514 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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 4 (EXISTING) - MARTIN EXP WELL - NO S										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		
13,300.0	7,740.0	7,697.0	7,697.0	104.0	13.4	-90.00	5,531.2	32.2	1,528.6	1,415.1	113.58	13.459 ES		
13,400.0	7,740.0	7,697.0	7,697.0	105.7	13.4	-90.00	5,531.2	32.2	1,533.7	1,418.4	115.32	13.300		
13,500.0	7,740.0	7,697.0	7,697.0	107.3	13.4	-90.00	5,531.2	32.2	1,545.2	1,428.2	117.06	13.201		
13,600.0	7,740.0	7,697.0	7,697.0	109.0	13.4	-90.00	5,531.2	32.2	1,563.1	1,444.3	118.80	13.158 SF		
13,700.0	7,740.0	7,697.0	7,697.0	110.7	13.4	-90.00	5,531.2	32.2	1,587.1	1,466.5	120.54	13.167		
13,800.0	7,740.0	7,697.0	7,697.0	112.4	13.4	-90.00	5,531.2	32.2	1,616.9	1,494.6	122.28	13.223		
13,900.0	7,740.0	7,697.0	7,697.0	114.1	13.4	-90.00	5,531.2	32.2	1,652.2	1,528.2	124.02	13.322		
14,000.0	7,740.0	7,697.0	7,697.0	115.8	13.4	-90.00	5,531.2	32.2	1,692.7	1,566.9	125.76	13.460		
14,100.0	7,740.0	7,697.0	7,697.0	117.5	13.4	-90.00	5,531.2	32.2	1,738.0	1,610.5	127.50	13.631		
14,200.0	7,740.0	7,697.0	7,697.0	119.2	13.4	-90.00	5,531.2	32.2	1,787.8	1,658.5	129.24	13.833		
14,300.0	7,740.0	7,697.0	7,697.0	120.8	13.4	-90.00	5,531.2	32.2	1,841.7	1,710.7	130.99	14.060		
14,400.0	7,740.0	7,697.0	7,697.0	122.5	13.4	-90.00	5,531.2	32.2	1,899.3	1,766.5	132.73	14.309		
14,500.0	7,740.0	7,697.0	7,697.0	124.2	13.4	-90.00	5,531.2	32.2	1,960.3	1,825.8	134.47	14.578		
14,600.0	7,740.0	7,697.0	7,697.0	125.9	13.4	-90.00	5,531.2	32.2	2,024.4	1,888.2	136.22	14.862		
14,700.0	7,740.0	7,697.0	7,697.0	127.6	13.4	-90.00	5,531.2	32.2	2,091.3	1,953.4	137.96	15.159		
14,800.0	7,740.0	7,697.0	7,697.0	129.3	13.4	-90.00	5,531.2	32.2	2,160.8	2,021.1	139.70	15.467		
14,844.9	7,740.0	7,697.0	7,697.0	130.1	13.4	-90.00	5,531.2	32.2	2,192.8	2,052.3	140.49	15.608		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO											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	
9,600.0	7,740.0	7,688.0	7,688.0	46.4	13.4	-90.00	6,883.8	31.6	5,250.5	5,200.2	50.25	104.480	
9,700.0	7,740.0	7,688.0	7,688.0	47.7	13.4	-90.00	6,883.8	31.6	5,154.9	5,103.0	51.89	99.333	
9,800.0	7,740.0	7,688.0	7,688.0	49.1	13.4	-90.00	6,883.8	31.6	5,059.4	5,005.9	53.55	94.488	
9,900.0	7,740.0	7,688.0	7,688.0	50.4	13.4	-90.00	6,883.8	31.6	4,964.1	4,908.9	55.20	89.922	
10,000.0	7,740.0	7,688.0	7,688.0	51.8	13.4	-90.00	6,883.8	31.6	4,869.0	4,812.2	56.87	85.614	
10,100.0	7,740.0	7,688.0	7,688.0	53.2	13.4	-90.00	6,883.8	31.6	4,774.2	4,715.6	58.55	81.547	
10,200.0	7,740.0	7,688.0	7,688.0	54.6	13.4	-90.00	6,883.8	31.6	4,679.5	4,619.3	60.22	77.701	
10,300.0	7,740.0	7,688.0	7,688.0	56.1	13.4	-90.00	6,883.8	31.6	4,585.0	4,523.1	61.91	74.061	
10,400.0	7,740.0	7,688.0	7,688.0	57.6	13.4	-90.00	6,883.8	31.6	4,490.8	4,427.2	63.60	70.612	
10,500.0	7,740.0	7,688.0	7,688.0	59.0	13.4	-90.00	6,883.8	31.6	4,396.9	4,331.6	65.29	67.342	
10,600.0	7,740.0	7,688.0	7,688.0	60.5	13.4	-90.00	6,883.8	31.6	4,303.2	4,236.2	66.99	64.237	
10,700.0	7,740.0	7,688.0	7,688.0	62.0	13.4	-90.00	6,883.8	31.6	4,209.8	4,141.1	68.69	61.287	
10,800.0	7,740.0	7,688.0	7,688.0	63.5	13.4	-90.00	6,883.8	31.6	4,116.7	4,046.3	70.39	58.481	
10,900.0	7,740.0	7,688.0	7,688.0	65.1	13.4	-90.00	6,883.8	31.6	4,024.0	3,951.9	72.10	55.810	
11,000.0	7,740.0	7,688.0	7,688.0	66.6	13.4	-90.00	6,883.8	31.6	3,931.6	3,857.8	73.81	53.265	
11,100.0	7,740.0	7,688.0	7,688.0	68.2	13.4	-90.00	6,883.8	31.6	3,839.6	3,764.1	75.52	50.839	
11,200.0	7,740.0	7,688.0	7,688.0	69.7	13.4	-90.00	6,883.8	31.6	3,748.0	3,670.7	77.24	48.525	
11,300.0	7,740.0	7,688.0	7,688.0	71.3	13.4	-90.00	6,883.8	31.6	3,656.8	3,577.9	78.96	46.315	
11,400.0	7,740.0	7,688.0	7,688.0	72.9	13.4	-90.00	6,883.8	31.6	3,566.1	3,485.5	80.67	44.204	
11,500.0	7,740.0	7,688.0	7,688.0	74.5	13.4	-90.00	6,883.8	31.6	3,476.0	3,393.6	82.39	42.187	
11,600.0	7,740.0	7,688.0	7,688.0	76.1	13.4	-90.00	6,883.8	31.6	3,386.3	3,302.2	84.12	40.258	
11,700.0	7,740.0	7,688.0	7,688.0	77.7	13.4	-90.00	6,883.8	31.6	3,297.3	3,211.5	85.84	38.412	
11,800.0	7,740.0	7,688.0	7,688.0	79.3	13.4	-90.00	6,883.8	31.6	3,208.9	3,121.4	87.57	36.646	
11,900.0	7,740.0	7,688.0	7,688.0	80.9	13.4	-90.00	6,883.8	31.6	3,121.3	3,032.0	89.29	34.956	
12,000.0	7,740.0	7,688.0	7,688.0	82.5	13.4	-90.00	6,883.8	31.6	3,034.3	2,943.3	91.02	33.337	
12,100.0	7,740.0	7,688.0	7,688.0	84.2	13.4	-90.00	6,883.8	31.6	2,948.2	2,855.5	92.75	31.788	
12,200.0	7,740.0	7,688.0	7,688.0	85.8	13.4	-90.00	6,883.8	31.6	2,863.1	2,768.6	94.48	30.304	
12,300.0	7,740.0	7,688.0	7,688.0	87.4	13.4	-90.00	6,883.8	31.6	2,778.9	2,682.7	96.21	28.884	
12,400.0	7,740.0	7,688.0	7,688.0	89.1	13.4	-90.00	6,883.8	31.6	2,695.8	2,597.8	97.94	27.524	
12,500.0	7,740.0	7,688.0	7,688.0	90.7	13.4	-90.00	6,883.8	31.6	2,613.8	2,514.2	99.67	26.224	
12,600.0	7,740.0	7,688.0	7,688.0	92.4	13.4	-90.00	6,883.8	31.6	2,533.2	2,431.8	101.41	24.981	
12,700.0	7,740.0	7,688.0	7,688.0	94.0	13.4	-90.00	6,883.8	31.6	2,454.0	2,350.8	103.14	23.793	
12,800.0	7,740.0	7,688.0	7,688.0	95.7	13.4	-90.00	6,883.8	31.6	2,376.4	2,271.5	104.88	22.659	
12,900.0	7,740.0	7,688.0	7,688.0	97.3	13.4	-90.00	6,883.8	31.6	2,300.4	2,193.8	106.61	21.578	
13,000.0	7,740.0	7,688.0	7,688.0	99.0	13.4	-90.00	6,883.8	31.6	2,226.4	2,118.1	108.35	20.549	
13,100.0	7,740.0	7,688.0	7,688.0	100.7	13.4	-90.00	6,883.8	31.6	2,154.5	2,044.4	110.09	19.571	
13,200.0	7,740.0	7,688.0	7,688.0	102.3	13.4	-90.00	6,883.8	31.6	2,084.9	1,973.1	111.82	18.645	
13,300.0	7,740.0	7,688.0	7,688.0	104.0	13.4	-90.00	6,883.8	31.6	2,017.9	1,904.4	113.56	17.769	
13,400.0	7,740.0	7,688.0	7,688.0	105.7	13.4	-90.00	6,883.8	31.6	1,953.7	1,838.4	115.30	16.944	
13,500.0	7,740.0	7,688.0	7,688.0	107.3	13.4	-90.00	6,883.8	31.6	1,892.6	1,775.6	117.04	16.171	
13,600.0	7,740.0	7,688.0	7,688.0	109.0	13.4	-90.00	6,883.8	31.6	1,834.9	1,716.1	118.78	15.448	
13,700.0	7,740.0	7,688.0	7,688.0	110.7	13.4	-90.00	6,883.8	31.6	1,781.0	1,660.5	120.52	14.777	
13,800.0	7,740.0	7,688.0	7,688.0	112.4	13.4	-90.00	6,883.8	31.6	1,731.2	1,608.9	122.26	14.160	
13,900.0	7,740.0	7,688.0	7,688.0	114.1	13.4	-90.00	6,883.8	31.6	1,685.8	1,561.8	124.00	13.595	
14,000.0	7,740.0	7,688.0	7,688.0	115.8	13.4	-90.00	6,883.8	31.6	1,645.3	1,519.5	125.74	13.084	
14,100.0	7,740.0	7,688.0	7,688.0	117.5	13.4	-90.00	6,883.8	31.6	1,609.9	1,482.4	127.49	12.628	
14,200.0	7,740.0	7,688.0	7,688.0	119.2	13.4	-90.00	6,883.8	31.6	1,580.1	1,450.9	129.23	12.228	
14,300.0	7,740.0	7,688.0	7,688.0	120.8	13.4	-90.00	6,883.8	31.6	1,556.2	1,425.2	130.97	11.882	
14,400.0	7,740.0	7,688.0	7,688.0	122.5	13.4	-90.00	6,883.8	31.6	1,538.4	1,405.7	132.71	11.592	
14,500.0	7,740.0	7,688.0	7,688.0	124.2	13.4	-90.00	6,883.8	31.6	1,527.0	1,392.6	134.46	11.357	
14,600.0	7,740.0	7,688.0	7,688.0	125.9	13.4	-90.00	6,883.8	31.6	1,522.1	1,385.9	136.20	11.175	
14,625.1	7,740.0	7,688.0	7,688.0	126.4	13.4	-90.00	6,883.8	31.6	1,521.9	1,385.2	136.64	11.138 CC, ES	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO			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							
14,700.0	7,740.0	7,688.0	7,688.0	127.6	13.4	-90.00	6,883.8	31.6	1,523.7	1,385.8	137.94	11.046							
14,800.0	7,740.0	7,688.0	7,688.0	129.3	13.4	-90.00	6,883.8	31.6	1,531.9	1,392.2	139.69	10.967							
14,844.9	7,740.0	7,688.0	7,688.0	130.1	13.4	-90.00	6,883.8	31.6	1,537.7	1,397.2	140.47	10.947 SF							

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error:	0.0 ft
Survey Program: 7756-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,050.0	7,708.0	7,662.0	7,662.0	32.2	13.4	-19.93	5,577.5	1,353.5	5,262.0	5,238.1	23.86	220.505		
8,100.0	7,722.3	7,676.3	7,676.3	32.4	13.4	-21.75	5,577.5	1,353.5	5,214.3	5,192.1	22.27	234.125		
8,150.0	7,732.4	7,686.4	7,686.4	32.7	13.4	-25.74	5,577.5	1,353.5	5,165.6	5,144.2	21.36	241.843		
8,200.0	7,738.3	7,692.3	7,692.3	33.0	13.4	-37.31	5,577.5	1,353.5	5,116.0	5,093.5	22.58	226.611		
8,244.9	7,740.0	7,694.0	7,694.0	33.2	13.4	-90.00	5,577.5	1,353.5	5,071.3	5,040.9	30.41	166.757		
8,300.0	7,740.0	7,694.0	7,694.0	33.5	13.4	-90.00	5,577.5	1,353.5	5,016.2	4,985.2	31.03	161.653		
8,400.0	7,740.0	7,694.0	7,694.0	34.1	13.4	-90.00	5,577.5	1,353.5	4,916.3	4,884.0	32.23	152.543		
8,500.0	7,740.0	7,694.0	7,694.0	34.8	13.4	-90.00	5,577.5	1,353.5	4,816.4	4,782.9	33.51	143.733		
8,600.0	7,740.0	7,694.0	7,694.0	35.6	13.4	-90.00	5,577.5	1,353.5	4,716.5	4,681.6	34.86	135.311		
8,700.0	7,740.0	7,694.0	7,694.0	36.5	13.4	-90.00	5,577.5	1,353.5	4,616.6	4,580.3	36.26	127.322		
8,800.0	7,740.0	7,694.0	7,694.0	37.4	13.4	-90.00	5,577.5	1,353.5	4,516.7	4,479.0	37.71	119.782		
8,900.0	7,740.0	7,694.0	7,694.0	38.3	13.4	-90.00	5,577.5	1,353.5	4,416.8	4,377.6	39.19	112.690		
9,000.0	7,740.0	7,694.0	7,694.0	39.4	13.4	-90.00	5,577.5	1,353.5	4,316.9	4,276.2	40.71	106.035		
9,100.0	7,740.0	7,694.0	7,694.0	40.4	13.4	-90.00	5,577.5	1,353.5	4,217.0	4,174.7	42.26	99.794		
9,200.0	7,740.0	7,694.0	7,694.0	41.6	13.4	-90.00	5,577.5	1,353.5	4,117.1	4,073.3	43.82	93.945		
9,300.0	7,740.0	7,694.0	7,694.0	42.7	13.4	-90.00	5,577.5	1,353.5	4,017.2	3,971.8	45.41	88.463		
9,400.0	7,740.0	7,694.0	7,694.0	43.9	13.4	-90.00	5,577.5	1,353.5	3,917.4	3,870.4	47.02	83.321		
9,500.0	7,740.0	7,694.0	7,694.0	45.2	13.4	-90.00	5,577.5	1,353.5	3,817.5	3,768.9	48.63	78.496		
9,600.0	7,740.0	7,694.0	7,694.0	46.4	13.4	-90.00	5,577.5	1,353.5	3,717.7	3,667.4	50.26	73.963		
9,700.0	7,740.0	7,694.0	7,694.0	47.7	13.4	-90.00	5,577.5	1,353.5	3,617.8	3,565.9	51.91	69.701		
9,800.0	7,740.0	7,694.0	7,694.0	49.1	13.4	-90.00	5,577.5	1,353.5	3,518.0	3,464.4	53.56	65.688		
9,900.0	7,740.0	7,694.0	7,694.0	50.4	13.4	-90.00	5,577.5	1,353.5	3,418.2	3,363.0	55.22	61.906		
10,000.0	7,740.0	7,694.0	7,694.0	51.8	13.4	-90.00	5,577.5	1,353.5	3,318.4	3,261.5	56.88	58.338		
10,100.0	7,740.0	7,694.0	7,694.0	53.2	13.4	-90.00	5,577.5	1,353.5	3,218.6	3,160.0	58.56	54.966		
10,200.0	7,740.0	7,694.0	7,694.0	54.6	13.4	-90.00	5,577.5	1,353.5	3,118.8	3,058.6	60.23	51.777		
10,300.0	7,740.0	7,694.0	7,694.0	56.1	13.4	-90.00	5,577.5	1,353.5	3,019.0	2,957.1	61.92	48.757		
10,400.0	7,740.0	7,694.0	7,694.0	57.6	13.4	-90.00	5,577.5	1,353.5	2,919.3	2,855.6	63.61	45.894		
10,500.0	7,740.0	7,694.0	7,694.0	59.0	13.4	-90.00	5,577.5	1,353.5	2,819.5	2,754.2	65.30	43.176		
10,600.0	7,740.0	7,694.0	7,694.0	60.5	13.4	-90.00	5,577.5	1,353.5	2,719.8	2,652.8	67.00	40.594		
10,700.0	7,740.0	7,694.0	7,694.0	62.0	13.4	-90.00	5,577.5	1,353.5	2,620.1	2,551.4	68.70	38.138		
10,800.0	7,740.0	7,694.0	7,694.0	63.5	13.4	-90.00	5,577.5	1,353.5	2,520.4	2,450.0	70.41	35.799		
10,900.0	7,740.0	7,694.0	7,694.0	65.1	13.4	-90.00	5,577.5	1,353.5	2,420.8	2,348.7	72.11	33.569		
11,000.0	7,740.0	7,694.0	7,694.0	66.6	13.4	-90.00	5,577.5	1,353.5	2,321.2	2,247.3	73.82	31.443		
11,100.0	7,740.0	7,694.0	7,694.0	68.2	13.4	-90.00	5,577.5	1,353.5	2,221.6	2,146.0	75.53	29.411		
11,200.0	7,740.0	7,694.0	7,694.0	69.7	13.4	-90.00	5,577.5	1,353.5	2,122.0	2,044.8	77.25	27.470		
11,300.0	7,740.0	7,694.0	7,694.0	71.3	13.4	-90.00	5,577.5	1,353.5	2,022.5	1,943.6	78.97	25.613		
11,400.0	7,740.0	7,694.0	7,694.0	72.9	13.4	-90.00	5,577.5	1,353.5	1,923.1	1,842.4	80.68	23.835		
11,500.0	7,740.0	7,694.0	7,694.0	74.5	13.4	-90.00	5,577.5	1,353.5	1,823.7	1,741.3	82.40	22.131		
11,600.0	7,740.0	7,694.0	7,694.0	76.1	13.4	-90.00	5,577.5	1,353.5	1,724.4	1,640.2	84.13	20.497		
11,700.0	7,740.0	7,694.0	7,694.0	77.7	13.4	-90.00	5,577.5	1,353.5	1,625.1	1,539.3	85.85	18.930		
11,800.0	7,740.0	7,694.0	7,694.0	79.3	13.4	-90.00	5,577.5	1,353.5	1,526.0	1,438.4	87.58	17.425		
11,900.0	7,740.0	7,694.0	7,694.0	80.9	13.4	-90.00	5,577.5	1,353.5	1,427.0	1,337.7	89.30	15.979		
12,000.0	7,740.0	7,694.0	7,694.0	82.5	13.4	-90.00	5,577.5	1,353.5	1,328.1	1,237.1	91.03	14.590		
12,100.0	7,740.0	7,694.0	7,694.0	84.2	13.4	-90.00	5,577.5	1,353.5	1,229.4	1,136.7	92.76	13.254		
12,200.0	7,740.0	7,694.0	7,694.0	85.8	13.4	-90.00	5,577.5	1,353.5	1,131.0	1,036.5	94.49	11.970		
12,300.0	7,740.0	7,694.0	7,694.0	87.4	13.4	-90.00	5,577.5	1,353.5	1,032.8	936.6	96.22	10.734		
12,400.0	7,740.0	7,694.0	7,694.0	89.1	13.4	-90.00	5,577.5	1,353.5	935.1	837.1	97.95	9.547		
12,500.0	7,740.0	7,694.0	7,694.0	90.7	13.4	-90.00	5,577.5	1,353.5	837.9	738.2	99.68	8.405		
12,600.0	7,740.0	7,694.0	7,694.0	92.4	13.4	-90.00	5,577.5	1,353.5	741.4	640.0	101.42	7.310		
12,700.0	7,740.0	7,694.0	7,694.0	94.0	13.4	-90.00	5,577.5	1,353.5	645.9	542.8	103.15	6.262		
12,800.0	7,740.0	7,694.0	7,694.0	95.7	13.4	-90.00	5,577.5	1,353.5	552.1	447.3	104.89	5.264		
12,900.0	7,740.0	7,694.0	7,694.0	97.3	13.4	-90.00	5,577.5	1,353.5	461.0	354.3	106.62	4.323		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURV													Offset Site Error:	0.0 ft
Survey Program: 7756-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
13,000.0	7,740.0	7,694.0	7,694.0	99.0	13.4	-90.00	5,577.5	1,353.5	374.3	265.9	108.36	3.454		
13,100.0	7,740.0	7,694.0	7,694.0	100.7	13.4	-90.00	5,577.5	1,353.5	296.2	186.1	110.10	2.690		
13,200.0	7,740.0	7,694.0	7,694.0	102.3	13.4	-90.00	5,577.5	1,353.5	235.2	123.4	111.83	2.103		
13,300.0	7,740.0	7,694.0	7,694.0	104.0	13.4	-90.00	5,577.5	1,353.5	207.2	93.7	113.57	1.825		
13,311.9	7,740.0	7,694.0	7,694.0	104.2	13.4	-90.00	5,577.5	1,353.5	206.9	93.1	113.78	1.818 CC, ES, SF		
13,400.0	7,740.0	7,694.0	7,694.0	105.7	13.4	-90.00	5,577.5	1,353.5	224.9	109.5	115.31	1.950		
13,500.0	7,740.0	7,694.0	7,694.0	107.3	13.4	-90.00	5,577.5	1,353.5	279.6	162.5	117.05	2.389		
13,600.0	7,740.0	7,694.0	7,694.0	109.0	13.4	-90.00	5,577.5	1,353.5	354.7	235.9	118.79	2.986		
13,700.0	7,740.0	7,694.0	7,694.0	110.7	13.4	-90.00	5,577.5	1,353.5	439.8	319.3	120.53	3.649		
13,800.0	7,740.0	7,694.0	7,694.0	112.4	13.4	-90.00	5,577.5	1,353.5	530.1	407.8	122.27	4.336		
13,900.0	7,740.0	7,694.0	7,694.0	114.1	13.4	-90.00	5,577.5	1,353.5	623.4	499.4	124.01	5.027		
14,000.0	7,740.0	7,694.0	7,694.0	115.8	13.4	-90.00	5,577.5	1,353.5	718.5	592.8	125.75	5.714		
14,100.0	7,740.0	7,694.0	7,694.0	117.5	13.4	-90.00	5,577.5	1,353.5	814.8	687.3	127.50	6.391		
14,200.0	7,740.0	7,694.0	7,694.0	119.2	13.4	-90.00	5,577.5	1,353.5	911.9	782.6	129.24	7.056		
14,300.0	7,740.0	7,694.0	7,694.0	120.8	13.4	-90.00	5,577.5	1,353.5	1,009.5	878.5	130.98	7.707		
14,400.0	7,740.0	7,694.0	7,694.0	122.5	13.4	-90.00	5,577.5	1,353.5	1,107.6	974.9	132.72	8.345		
14,500.0	7,740.0	7,694.0	7,694.0	124.2	13.4	-90.00	5,577.5	1,353.5	1,206.0	1,071.5	134.47	8.968		
14,600.0	7,740.0	7,694.0	7,694.0	125.9	13.4	-90.00	5,577.5	1,353.5	1,304.6	1,168.4	136.21	9.578		
14,700.0	7,740.0	7,694.0	7,694.0	127.6	13.4	-90.00	5,577.5	1,353.5	1,403.4	1,265.5	137.95	10.173		
14,800.0	7,740.0	7,694.0	7,694.0	129.3	13.4	-90.00	5,577.5	1,353.5	1,502.4	1,362.7	139.70	10.755		
14,844.9	7,740.0	7,694.0	7,694.0	130.1	13.4	-90.00	5,577.5	1,353.5	1,546.8	1,406.4	140.48	11.011		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 40-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
8,800.0	7,740.0	7,706.2	7,609.8	37.4	19.9	77.61	6,299.0	1,990.0	5,248.8	5,206.8	41.99	124.991	
8,900.0	7,740.0	7,707.8	7,611.4	38.3	19.9	77.81	6,299.0	1,989.9	5,149.2	5,105.7	43.46	118.484	
9,000.0	7,740.0	7,709.4	7,613.0	39.4	19.9	78.01	6,299.0	1,989.9	5,049.6	5,004.6	44.96	112.316	
9,100.0	7,740.0	7,711.0	7,614.6	40.4	19.9	78.22	6,299.1	1,989.9	4,950.0	4,903.5	46.49	106.477	
9,200.0	7,740.0	7,712.6	7,616.3	41.6	19.9	78.43	6,299.1	1,989.9	4,850.4	4,802.3	48.04	100.958	
9,300.0	7,740.0	7,714.3	7,617.9	42.7	19.9	78.63	6,299.1	1,989.9	4,750.8	4,701.2	49.62	95.741	
9,400.0	7,740.0	7,716.0	7,619.6	43.9	19.9	78.85	6,299.2	1,989.8	4,651.3	4,600.0	51.22	90.813	
9,500.0	7,740.0	7,720.0	7,623.6	45.2	19.9	79.36	6,299.2	1,989.8	4,551.7	4,498.8	52.88	86.079	
9,600.0	7,740.0	7,720.0	7,623.6	46.4	19.9	79.36	6,299.2	1,989.8	4,452.2	4,397.7	54.47	81.730	
9,700.0	7,740.0	7,720.0	7,623.6	47.7	19.9	79.36	6,299.2	1,989.8	4,352.7	4,296.6	56.08	77.613	
9,800.0	7,740.0	7,720.0	7,623.6	49.1	19.9	79.36	6,299.2	1,989.8	4,253.2	4,195.5	57.70	73.714	
9,900.0	7,740.0	7,724.3	7,627.9	50.4	19.9	79.91	6,299.3	1,989.7	4,153.8	4,094.4	59.42	69.906	
10,000.0	7,740.0	7,726.0	7,629.6	51.8	19.9	80.13	6,299.4	1,989.7	4,054.3	3,993.3	61.09	66.363	
10,100.0	7,740.0	7,727.7	7,631.3	53.2	19.9	80.35	6,299.4	1,989.7	3,955.0	3,892.2	62.78	63.002	
10,200.0	7,740.0	7,729.4	7,633.0	54.6	19.9	80.57	6,299.4	1,989.6	3,855.6	3,791.1	64.47	59.808	
10,300.0	7,740.0	7,731.1	7,634.8	56.1	19.9	80.79	6,299.5	1,989.6	3,756.3	3,690.1	66.16	56.773	
10,400.0	7,740.0	7,732.9	7,636.5	57.6	19.9	81.01	6,299.5	1,989.6	3,657.0	3,589.1	67.87	53.884	
10,500.0	7,740.0	7,734.6	7,638.3	59.0	19.9	81.24	6,299.5	1,989.6	3,557.7	3,488.1	69.58	51.133	
10,600.0	7,740.0	7,736.4	7,640.0	60.5	19.9	81.46	6,299.6	1,989.5	3,458.5	3,387.2	71.29	48.511	
10,700.0	7,740.0	7,738.2	7,641.8	62.0	19.9	81.69	6,299.6	1,989.5	3,359.3	3,286.3	73.01	46.009	
10,800.0	7,740.0	7,740.0	7,643.6	63.5	19.9	81.93	6,299.6	1,989.5	3,260.2	3,185.4	74.74	43.620	
10,900.0	7,740.0	7,741.8	7,645.4	65.1	20.0	82.16	6,299.7	1,989.5	3,161.1	3,084.6	76.47	41.338	
11,000.0	7,740.0	7,743.6	7,647.2	66.6	20.0	82.40	6,299.7	1,989.4	3,062.1	2,983.9	78.20	39.155	
11,100.0	7,740.0	7,745.5	7,649.1	68.2	20.0	82.64	6,299.8	1,989.4	2,963.2	2,883.2	79.94	37.067	
11,200.0	7,740.0	7,747.3	7,650.9	69.7	20.0	82.88	6,299.8	1,989.4	2,864.3	2,782.6	81.68	35.066	
11,300.0	7,740.0	7,749.2	7,652.8	71.3	20.0	83.12	6,299.8	1,989.4	2,765.5	2,682.1	83.43	33.149	
11,400.0	7,740.0	7,751.1	7,654.7	72.9	20.0	83.37	6,299.9	1,989.3	2,666.8	2,581.6	85.17	31.310	
11,500.0	7,740.0	7,753.0	7,656.6	74.5	20.0	83.62	6,299.9	1,989.3	2,568.2	2,481.3	86.92	29.545	
11,600.0	7,740.0	7,754.9	7,658.5	76.1	20.0	83.87	6,300.0	1,989.3	2,469.7	2,381.0	88.68	27.851	
11,700.0	7,740.0	7,756.8	7,660.4	77.7	20.0	84.12	6,300.0	1,989.3	2,371.3	2,280.9	90.43	26.223	
11,800.0	7,740.0	7,760.0	7,663.6	79.3	20.0	84.53	6,300.1	1,989.2	2,273.1	2,180.9	92.21	24.651	
11,900.0	7,740.0	7,760.0	7,663.6	80.9	20.0	84.53	6,300.1	1,989.2	2,175.0	2,081.1	93.93	23.156	
12,000.0	7,740.0	7,762.7	7,666.3	82.5	20.0	84.88	6,300.1	1,989.2	2,077.1	1,981.4	95.70	21.704	
12,100.0	7,740.0	7,764.6	7,668.2	84.2	20.0	85.14	6,300.2	1,989.1	1,979.5	1,882.0	97.46	20.310	
12,200.0	7,740.0	7,766.6	7,670.2	85.8	20.0	85.40	6,300.2	1,989.1	1,882.0	1,782.8	99.22	18.968	
12,300.0	7,740.0	7,768.5	7,672.2	87.4	20.0	85.66	6,300.3	1,989.1	1,784.9	1,683.9	100.98	17.675	
12,400.0	7,740.0	7,770.5	7,674.1	89.1	20.0	85.92	6,300.3	1,989.1	1,688.0	1,585.3	102.74	16.430	
12,500.0	7,740.0	7,772.6	7,676.2	90.7	20.0	86.18	6,300.3	1,989.0	1,591.6	1,487.1	104.50	15.230	
12,600.0	7,740.0	7,774.6	7,678.2	92.4	20.0	86.45	6,300.4	1,989.0	1,495.6	1,389.3	106.27	14.074	
12,700.0	7,740.0	7,776.6	7,680.2	94.0	20.0	86.72	6,300.4	1,989.0	1,400.2	1,292.2	108.03	12.961	
12,800.0	7,740.0	7,778.7	7,682.3	95.7	20.0	86.99	6,300.5	1,989.0	1,305.5	1,195.7	109.79	11.890	
12,900.0	7,740.0	7,780.8	7,684.4	97.3	20.0	87.27	6,300.5	1,988.9	1,211.6	1,100.0	111.55	10.861	
13,000.0	7,740.0	7,782.9	7,686.5	99.0	20.0	87.55	6,300.6	1,988.9	1,118.8	1,005.4	113.31	9.873	
13,100.0	7,740.0	7,785.0	7,688.6	100.7	20.0	87.83	6,300.6	1,988.9	1,027.3	912.2	115.07	8.927	
13,200.0	7,740.0	7,787.1	7,690.7	102.3	20.0	88.11	6,300.7	1,988.9	937.5	820.7	116.83	8.024	
13,300.0	7,740.0	7,789.3	7,692.9	104.0	20.0	88.39	6,300.7	1,988.8	850.0	731.4	118.59	7.168	
13,400.0	7,740.0	7,791.5	7,695.1	105.7	20.0	88.68	6,300.8	1,988.8	765.6	645.3	120.35	6.362	
13,500.0	7,740.0	7,793.6	7,697.2	107.3	20.0	88.97	6,300.8	1,988.8	685.4	563.3	122.10	5.614	
13,600.0	7,740.0	7,795.9	7,699.5	109.0	20.0	89.26	6,300.9	1,988.8	611.1	487.2	123.85	4.934	
13,700.0	7,740.0	7,798.1	7,701.7	110.7	20.0	89.56	6,300.9	1,988.7	545.0	419.4	125.60	4.339	
13,800.0	7,740.0	7,800.0	7,703.6	112.4	20.0	89.81	6,301.0	1,988.7	490.5	363.2	127.35	3.852	
13,900.0	7,740.0	7,802.6	7,706.2	114.1	20.0	90.16	6,301.0	1,988.7	451.9	322.8	129.10	3.500	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 ft
S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 21-6 (EXISTING) - KERR-MCGEE WEL												Offset Well Error:	0.0 ft
Survey Program: 40-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)			
14,000.0	7,740.0	7,804.9	7,708.5	115.8	20.0	90.47	6,301.1	1,988.7	433.3	302.5	130.84	3.312	
14,032.2	7,740.0	7,805.7	7,709.3	116.3	20.0	90.57	6,301.1	1,988.7	432.1	300.7	131.40	3.289	CC, ES, SF
14,100.0	7,740.0	7,807.3	7,710.8	117.5	20.0	90.77	6,301.2	1,988.7	437.4	304.8	132.58	3.299	
14,200.0	7,740.0	7,809.6	7,713.2	119.2	20.1	91.08	6,301.2	1,988.6	463.5	329.2	134.31	3.451	
14,300.0	7,740.0	7,811.9	7,715.5	120.8	20.1	91.40	6,301.3	1,988.6	508.3	372.3	136.04	3.736	
14,400.0	7,740.0	7,814.3	7,717.9	122.5	20.1	91.71	6,301.3	1,988.6	567.4	429.6	137.77	4.118	
14,500.0	7,740.0	7,816.7	7,720.3	124.2	20.1	92.03	6,301.4	1,988.6	636.7	497.2	139.49	4.565	
14,600.0	7,740.0	7,819.1	7,722.7	125.9	20.1	92.34	6,301.4	1,988.5	713.4	572.2	141.21	5.052	
14,700.0	7,740.0	7,821.5	7,725.1	127.6	20.1	92.66	6,301.5	1,988.5	795.2	652.3	142.93	5.564	
14,800.0	7,740.0	7,823.9	7,727.5	129.3	20.1	92.99	6,301.6	1,988.5	880.8	736.2	144.64	6.090	
14,844.9	7,740.0	7,825.0	7,728.6	130.1	20.1	93.13	6,301.6	1,988.5	920.2	774.8	145.40	6.329	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL													Offset Site Error:	0.0 ft
Survey Program: 771-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	39.0	39.0	0.0	0.1	37.90	2,900.1	2,257.8	3,675.4					
100.0	100.0	141.5	141.5	0.2	0.2	37.90	2,900.1	2,257.8	3,675.3	3,674.9	0.40	9,204.267		
200.0	200.0	244.1	244.1	0.3	0.4	37.90	2,900.0	2,257.7	3,675.2	3,674.4	0.75	4,880.635		
250.0	250.0	295.3	295.3	0.4	0.5	37.90	2,899.9	2,257.6	3,675.1	3,674.2	0.93	3,952.277		
300.0	300.0	346.6	346.6	0.5	0.6	-62.10	2,899.8	2,257.5	3,674.9	3,673.8	1.11	3,322.668		
400.0	400.0	449.1	449.1	0.7	0.8	-62.14	2,899.6	2,257.3	3,673.8	3,672.3	1.46	2,514.600		
500.0	499.9	551.6	551.6	0.9	1.0	-62.21	2,899.4	2,257.1	3,671.8	3,670.0	1.82	2,017.220		
600.0	599.8	654.0	654.0	1.1	1.1	-62.31	2,899.1	2,256.8	3,669.0	3,666.8	2.19	1,677.904		
700.0	699.5	756.2	756.2	1.3	1.3	-62.44	2,898.7	2,256.5	3,665.3	3,662.7	2.56	1,430.057		
800.0	799.2	851.3	851.3	1.5	1.5	-62.60	2,898.6	2,255.9	3,660.8	3,657.8	2.94	1,245.202		
900.0	898.6	935.3	935.2	1.7	1.6	-62.78	2,898.9	2,255.2	3,655.8	3,652.4	3.31	1,103.526		
1,000.0	997.9	1,054.2	1,054.1	2.0	1.8	-63.05	2,899.3	2,254.5	3,650.1	3,646.3	3.76	969.483		
1,100.0	1,096.9	1,156.0	1,156.0	2.3	2.0	-63.32	2,899.3	2,253.5	3,643.2	3,639.0	4.21	865.961		
1,200.0	1,195.7	1,245.0	1,245.0	2.6	2.2	-63.60	2,899.5	2,252.6	3,635.7	3,631.0	4.65	782.007		
1,300.0	1,294.1	1,328.0	1,327.9	2.9	2.3	-63.89	2,900.2	2,251.6	3,627.8	3,622.7	5.10	710.735		
1,400.0	1,392.3	1,395.2	1,395.1	3.3	2.4	-64.17	2,901.3	2,250.6	3,619.8	3,614.3	5.56	651.293		
1,500.0	1,490.1	1,482.9	1,482.7	3.7	2.6	-64.56	2,904.7	2,248.0	3,612.0	3,605.9	6.08	594.044		
1,600.0	1,587.5	1,572.6	1,572.2	4.1	2.8	-65.03	2,909.2	2,243.4	3,603.4	3,596.8	6.64	542.567		
1,700.0	1,684.6	1,625.0	1,624.4	4.5	2.9	-65.36	2,912.6	2,240.2	3,595.0	3,587.9	7.16	502.019		
1,750.0	1,732.9	1,665.2	1,664.4	4.8	3.0	-65.60	2,915.7	2,237.6	3,590.9	3,583.5	7.46	481.142		
1,800.0	1,781.2	1,693.0	1,692.1	5.0	3.0	-63.87	2,918.1	2,235.7	3,586.9	3,579.2	7.74	463.674		
1,900.0	1,877.8	1,747.1	1,745.7	5.5	3.1	-60.39	2,923.5	2,231.7	3,578.8	3,570.5	8.27	432.578		
1,981.2	1,956.2	1,789.9	1,788.1	5.9	3.2	-57.56	2,928.3	2,228.5	3,572.0	3,563.3	8.70	410.368		
2,000.0	1,974.4	1,816.0	1,814.0	6.0	3.3	-57.69	2,931.5	2,226.6	3,570.6	3,561.7	8.85	403.661		
2,100.0	2,071.3	1,848.0	1,845.6	6.4	3.4	-57.81	2,935.7	2,224.2	3,563.8	3,554.5	9.32	382.203		
2,181.5	2,150.7	1,885.7	1,882.8	6.7	3.5	-57.98	2,941.1	2,221.4	3,560.2	3,550.4	9.73	365.785		
2,200.0	2,168.6	1,910.0	1,906.7	6.8	3.5	-58.11	2,944.8	2,219.5	3,559.6	3,549.8	9.87	360.772		
2,300.0	2,266.1	1,943.2	1,939.4	7.3	3.6	-58.29	2,950.3	2,216.9	3,557.2	3,546.9	10.34	344.098		
2,400.0	2,363.5	2,005.0	2,000.0	7.7	3.8	-58.63	2,961.2	2,212.3	3,556.4	3,545.5	10.89	326.507		
2,416.1	2,379.2	2,005.0	2,000.0	7.8	3.8	-58.63	2,961.2	2,212.3	3,556.4	3,545.4	10.95	324.674		
2,500.0	2,461.0	2,073.9	2,067.5	8.1	4.0	-59.02	2,973.9	2,207.1	3,556.7	3,545.2	11.47	309.954		
2,600.0	2,558.4	2,148.3	2,140.4	8.6	4.2	-59.44	2,987.9	2,201.5	3,557.6	3,545.5	12.08	294.483		
2,700.0	2,655.8	2,244.4	2,234.4	9.0	4.6	-59.99	3,006.5	2,194.5	3,559.4	3,546.7	12.76	279.010		
2,800.0	2,753.3	2,358.0	2,345.7	9.4	4.9	-60.62	3,027.6	2,186.1	3,560.9	3,547.4	13.49	263.868		
2,900.0	2,850.7	2,440.6	2,426.6	9.9	5.2	-61.09	3,043.1	2,179.7	3,562.7	3,548.5	14.14	251.923		
3,000.0	2,948.2	2,511.7	2,496.2	10.3	5.5	-61.49	3,056.6	2,174.5	3,565.2	3,550.5	14.76	241.629		
3,100.0	3,045.6	2,574.0	2,557.2	10.7	5.7	-61.84	3,068.9	2,170.2	3,568.9	3,553.5	15.34	232.600		
3,200.0	3,143.0	2,664.0	2,645.0	11.2	6.0	-62.35	3,087.2	2,163.7	3,573.3	3,557.3	16.03	222.877		
3,300.0	3,240.5	2,793.6	2,771.6	11.6	6.5	-63.09	3,113.1	2,153.4	3,577.4	3,560.6	16.85	212.345		
3,400.0	3,337.9	2,868.2	2,844.6	12.0	6.8	-63.51	3,127.7	2,148.3	3,582.0	3,564.5	17.48	204.962		
3,500.0	3,435.3	2,990.2	2,964.0	12.5	7.2	-64.18	3,151.1	2,139.8	3,586.5	3,568.2	18.26	196.417		
3,600.0	3,532.8	3,067.0	3,039.2	12.9	7.5	-64.61	3,165.9	2,134.3	3,591.4	3,572.5	18.90	190.005		
3,700.0	3,630.2	3,144.0	3,114.4	13.3	7.8	-65.04	3,181.2	2,128.9	3,597.1	3,577.6	19.55	184.029		
3,800.0	3,727.7	3,247.5	3,215.7	13.8	8.2	-65.61	3,201.7	2,121.9	3,603.3	3,583.0	20.27	177.788		
3,900.0	3,825.1	3,359.3	3,325.0	14.2	8.6	-66.22	3,223.3	2,114.0	3,609.2	3,588.2	21.02	171.693		
4,000.0	3,922.5	3,438.8	3,402.7	14.6	9.0	-66.67	3,239.0	2,107.8	3,615.6	3,593.9	21.68	166.752		
4,100.0	4,020.0	3,530.5	3,492.2	15.1	9.3	-67.18	3,257.3	2,100.4	3,622.5	3,600.2	22.38	161.872		
4,200.0	4,117.4	3,632.7	3,592.1	15.5	9.7	-67.75	3,277.5	2,092.5	3,629.6	3,606.5	23.10	157.094		
4,300.0	4,214.9	3,712.0	3,669.6	16.0	10.0	-68.19	3,293.3	2,086.2	3,637.2	3,613.5	23.77	153.050		
4,400.0	4,312.3	3,798.9	3,754.5	16.4	10.4	-68.67	3,310.7	2,080.2	3,645.5	3,621.1	24.42	149.277		
4,500.0	4,409.7	3,879.2	3,833.2	16.8	10.7	-69.08	3,326.5	2,075.6	3,654.2	3,629.1	25.06	145.823		
4,600.0	4,507.2	3,955.1	3,907.4	17.3	11.0	-69.48	3,341.8	2,071.4	3,663.6	3,637.9	25.68	142.642		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL												Offset Site Error:	0.0 ft
Survey Program: 771-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,700.0	4,604.6	4,093.7	4,042.9	17.7	11.5	-70.20	3,369.7	2,063.6	3,673.4	3,647.0	26.48	138.713	
4,800.0	4,702.0	4,221.8	4,168.3	18.1	12.0	-70.89	3,394.1	2,053.6	3,681.8	3,654.5	27.28	134.950	
4,900.0	4,799.5	4,282.0	4,227.0	18.6	12.3	-71.22	3,405.8	2,048.3	3,690.7	3,662.8	27.88	132.371	
5,000.0	4,896.9	4,350.8	4,294.2	19.0	12.6	-71.60	3,419.7	2,042.5	3,700.6	3,672.1	28.50	129.867	
5,100.0	4,994.4	4,472.0	4,412.6	19.4	13.0	-72.24	3,443.9	2,033.9	3,711.0	3,681.7	29.24	126.900	
5,200.0	5,091.8	4,542.8	4,481.9	19.9	13.3	-72.61	3,457.7	2,028.9	3,721.4	3,691.5	29.86	124.630	
5,300.0	5,189.2	4,615.0	4,552.4	20.3	13.6	-72.99	3,472.6	2,023.7	3,732.9	3,702.4	30.48	122.478	
5,400.0	5,286.7	5,399.7	5,328.5	20.8	15.6	-76.46	3,562.1	1,989.5	3,742.8	3,710.4	32.41	115.473	
5,500.0	5,384.1	5,487.9	5,416.7	21.2	15.7	-76.77	3,562.3	1,989.0	3,737.5	3,704.5	32.95	113.414	
5,600.0	5,481.6	5,571.0	5,499.8	21.6	15.8	-77.06	3,562.7	1,988.4	3,732.6	3,699.1	33.49	111.448	
5,700.0	5,579.0	5,668.1	5,596.9	22.1	16.0	-77.40	3,563.4	1,987.6	3,728.1	3,694.0	34.05	109.483	
5,800.0	5,676.4	5,769.8	5,698.6	22.5	16.1	-77.76	3,564.2	1,986.5	3,723.6	3,689.0	34.62	107.542	
5,900.0	5,773.9	5,862.6	5,791.4	22.9	16.2	-78.10	3,565.0	1,985.0	3,719.2	3,684.1	35.19	105.703	
6,000.0	5,871.3	5,949.2	5,878.0	23.4	16.3	-78.41	3,565.9	1,983.9	3,715.2	3,679.5	35.74	103.957	
6,100.0	5,968.7	6,044.2	5,972.9	23.8	16.4	-78.76	3,567.0	1,982.8	3,711.6	3,675.3	36.30	102.243	
6,200.0	6,066.2	6,153.9	6,082.6	24.3	16.6	-79.15	3,568.1	1,981.7	3,708.0	3,671.1	36.89	100.520	
6,300.0	6,163.6	6,268.0	6,196.8	24.7	16.7	-79.57	3,568.8	1,980.3	3,704.1	3,666.6	37.48	98.817	
6,400.0	6,261.1	6,335.6	6,264.3	25.1	16.8	-79.81	3,569.4	1,979.3	3,700.5	3,662.5	38.01	97.347	
6,500.0	6,358.5	6,427.3	6,356.0	25.6	17.0	-80.14	3,570.7	1,978.4	3,697.7	3,659.2	38.58	95.851	
6,600.0	6,455.9	6,512.1	6,440.8	26.0	17.1	-80.45	3,571.8	1,977.4	3,695.0	3,655.9	39.14	94.412	
6,700.0	6,553.4	6,679.1	6,607.7	26.5	17.3	-81.06	3,573.6	1,975.4	3,692.4	3,652.5	39.81	92.759	
6,800.0	6,650.8	6,762.3	6,691.0	26.9	17.4	-81.36	3,573.5	1,975.0	3,688.6	3,648.2	40.35	91.404	
6,900.0	6,748.3	6,848.4	6,777.1	27.3	17.5	-81.66	3,573.6	1,974.7	3,685.3	3,644.4	40.91	90.086	
7,000.0	6,845.7	6,941.0	6,869.7	27.8	17.6	-81.99	3,573.9	1,974.2	3,682.2	3,640.8	41.47	88.784	
7,100.0	6,943.1	7,023.9	6,952.5	28.2	17.7	-82.29	3,574.4	1,973.6	3,679.6	3,637.6	42.03	87.549	
7,200.0	7,040.6	7,126.5	7,055.1	28.6	17.9	-82.65	3,575.3	1,972.9	3,677.4	3,634.8	42.61	86.307	
7,300.0	7,138.0	7,216.4	7,145.1	29.1	18.0	-82.97	3,576.0	1,972.5	3,675.2	3,632.1	43.17	85.128	
7,341.8	7,178.7	7,261.3	7,190.0	29.3	18.0	-83.14	3,576.5	1,972.2	3,674.4	3,631.0	43.42	84.628	
7,350.0	7,186.7	7,270.9	7,199.5	29.3	18.0	-79.61	3,576.5	1,972.2	3,674.2	3,630.7	43.45	84.560	
7,400.0	7,235.4	7,324.0	7,252.6	29.5	18.1	-59.36	3,576.9	1,972.0	3,670.3	3,626.8	43.48	84.420	
7,450.0	7,283.6	7,370.4	7,299.0	29.7	18.2	-43.67	3,577.1	1,971.9	3,662.1	3,618.9	43.22	84.735	
7,500.0	7,331.0	7,412.5	7,341.1	29.9	18.2	-32.75	3,577.5	1,971.6	3,649.7	3,607.1	42.68	85.518	
7,550.0	7,377.4	7,461.1	7,389.7	30.1	18.3	-25.23	3,577.9	1,971.2	3,633.3	3,591.5	41.88	86.762	
7,600.0	7,422.2	7,509.5	7,438.1	30.3	18.4	-19.88	3,578.3	1,970.7	3,612.9	3,572.1	40.81	88.527	
7,650.0	7,465.2	7,543.4	7,472.1	30.5	18.4	-15.83	3,578.5	1,970.4	3,588.6	3,549.2	39.47	90.926	
7,700.0	7,506.0	7,574.2	7,502.8	30.7	18.5	-12.64	3,578.9	1,970.2	3,560.8	3,523.0	37.88	94.008	
7,750.0	7,544.4	7,610.0	7,538.6	30.9	18.5	-9.98	3,579.4	1,970.1	3,529.7	3,493.6	36.07	97.854	
7,800.0	7,580.0	7,638.2	7,566.9	31.1	18.6	-7.60	3,579.8	1,970.0	3,495.4	3,461.3	34.05	102.659	
7,850.0	7,612.6	7,672.6	7,601.2	31.3	18.6	-5.34	3,580.3	1,969.9	3,458.0	3,426.2	31.86	108.552	
7,900.0	7,641.9	7,703.6	7,632.2	31.5	18.6	-3.00	3,580.7	1,970.0	3,418.0	3,388.5	29.51	115.806	
7,950.0	7,667.7	7,725.9	7,654.5	31.7	18.7	-0.34	3,581.1	1,970.0	3,375.6	3,348.5	27.07	124.684	
8,000.0	7,689.8	7,745.1	7,673.7	32.0	18.7	2.96	3,581.4	1,970.0	3,331.1	3,306.4	24.64	135.197	
8,050.0	7,708.0	7,761.2	7,689.8	32.2	18.7	7.47	3,581.6	1,970.1	3,284.9	3,262.4	22.45	146.346	
8,100.0	7,722.3	7,774.0	7,702.6	32.4	18.8	14.40	3,581.9	1,970.1	3,237.3	3,216.2	21.14	153.162	
8,150.0	7,732.4	7,783.3	7,711.9	32.7	18.8	26.42	3,582.0	1,970.1	3,188.7	3,166.2	22.46	141.947	
8,200.0	7,738.3	7,789.1	7,717.7	33.0	18.8	49.34	3,582.1	1,970.1	3,139.4	3,110.4	29.01	108.222	
8,244.9	7,740.0	7,791.3	7,719.9	33.2	18.8	81.72	3,582.2	1,970.1	3,095.0	3,060.0	34.99	88.458	
8,300.0	7,740.0	7,799.0	7,727.6	33.5	18.8	82.81	3,582.3	1,970.1	3,040.3	3,004.7	35.65	85.277	
8,400.0	7,740.0	7,799.0	7,727.6	34.1	18.8	82.81	3,582.3	1,970.1	2,941.2	2,904.4	36.83	79.860	
8,500.0	7,740.0	7,799.0	7,727.6	34.8	18.8	82.81	3,582.3	1,970.1	2,842.2	2,804.1	38.09	74.620	
8,600.0	7,740.0	7,799.0	7,727.6	35.6	18.8	82.81	3,582.3	1,970.1	2,743.2	2,703.8	39.42	69.597	
8,700.0	7,740.0	7,799.0	7,727.6	36.5	18.8	82.81	3,582.3	1,970.1	2,644.4	2,603.6	40.80	64.815	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL											Offset Site Error:		0.0 ft
Survey Program: 771-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,800.0	7,740.0	7,800.7	7,729.3	37.4	18.8	83.04	3,582.4	1,970.1	2,545.6	2,503.3	42.24	60.260	
8,900.0	7,740.0	7,802.7	7,731.3	38.3	18.8	83.33	3,582.4	1,970.1	2,446.9	2,403.1	43.73	55.952	
9,000.0	7,740.0	7,804.7	7,733.3	39.4	18.8	83.61	3,582.4	1,970.1	2,348.3	2,303.0	45.25	51.892	
9,100.0	7,740.0	7,806.7	7,735.3	40.4	18.8	83.89	3,582.5	1,970.1	2,249.8	2,203.0	46.80	48.070	
9,200.0	7,740.0	7,808.7	7,737.3	41.6	18.8	84.17	3,582.5	1,970.1	2,151.5	2,103.1	48.38	44.473	
9,300.0	7,740.0	7,810.6	7,739.2	42.7	18.8	84.45	3,582.5	1,970.2	2,053.3	2,003.4	49.97	41.089	
9,400.0	7,740.0	7,812.6	7,741.2	43.9	18.8	84.73	3,582.6	1,970.2	1,955.4	1,903.8	51.59	37.906	
9,500.0	7,740.0	7,814.5	7,743.1	45.2	18.8	85.01	3,582.6	1,970.2	1,857.6	1,804.4	53.21	34.909	
9,600.0	7,740.0	7,816.5	7,745.1	46.4	18.8	85.29	3,582.7	1,970.2	1,760.1	1,705.2	54.85	32.087	
9,700.0	7,740.0	7,818.4	7,747.0	47.7	18.8	85.56	3,582.7	1,970.2	1,662.9	1,606.4	56.51	29.428	
9,800.0	7,740.0	7,820.3	7,748.9	49.1	18.8	85.84	3,582.7	1,970.2	1,566.0	1,507.8	58.17	26.921	
9,900.0	7,740.0	7,822.3	7,750.8	50.4	18.8	86.11	3,582.8	1,970.2	1,469.6	1,409.7	59.84	24.558	
10,000.0	7,740.0	7,824.2	7,752.7	51.8	18.8	86.38	3,582.8	1,970.2	1,373.6	1,312.1	61.52	22.328	
10,100.0	7,740.0	7,826.0	7,754.6	53.2	18.8	86.65	3,582.8	1,970.2	1,278.3	1,215.1	63.21	20.224	
10,200.0	7,740.0	7,827.9	7,756.5	54.6	18.8	86.92	3,582.9	1,970.2	1,183.7	1,118.8	64.90	18.240	
10,300.0	7,740.0	7,829.8	7,758.4	56.1	18.8	87.19	3,582.9	1,970.2	1,090.1	1,023.5	66.59	16.370	
10,400.0	7,740.0	7,831.7	7,760.3	57.6	18.8	87.46	3,582.9	1,970.2	997.8	929.5	68.29	14.610	
10,500.0	7,740.0	7,833.5	7,762.1	59.0	18.8	87.72	3,583.0	1,970.2	907.0	837.0	70.00	12.958	
10,600.0	7,740.0	7,835.4	7,764.0	60.5	18.8	87.99	3,583.0	1,970.2	818.4	746.7	71.71	11.414	
10,700.0	7,740.0	7,837.2	7,765.8	62.0	18.8	88.25	3,583.0	1,970.2	732.8	659.4	73.42	9.981	
10,800.0	7,740.0	7,839.0	7,767.6	63.5	18.8	88.51	3,583.1	1,970.2	651.3	576.1	75.13	8.668	
10,900.0	7,740.0	7,840.9	7,769.5	65.1	18.8	88.78	3,583.1	1,970.2	575.6	498.7	76.85	7.490	
11,000.0	7,740.0	7,842.7	7,771.3	66.6	18.8	89.04	3,583.1	1,970.2	508.3	429.8	78.56	6.470	
11,100.0	7,740.0	7,844.5	7,773.1	68.2	18.9	89.29	3,583.2	1,970.2	453.4	373.1	80.28	5.647	
11,200.0	7,740.0	7,846.3	7,774.9	69.7	18.9	89.55	3,583.2	1,970.2	415.5	333.5	82.00	5.067	
11,300.0	7,740.0	7,848.1	7,776.7	71.3	18.9	89.81	3,583.2	1,970.2	399.7	316.0	83.72	4.774	
11,314.5	7,740.0	7,848.3	7,776.9	71.5	18.9	89.84	3,583.2	1,970.2	399.4	315.5	83.97	4.757	CC, ES, SF
11,400.0	7,740.0	7,849.8	7,778.4	72.9	18.9	90.06	3,583.3	1,970.2	408.5	323.0	85.44	4.781	
11,500.0	7,740.0	7,851.6	7,780.2	74.5	18.9	90.32	3,583.3	1,970.3	440.4	353.3	87.16	5.053	
11,600.0	7,740.0	7,853.4	7,782.0	76.1	18.9	90.57	3,583.3	1,970.3	491.0	402.1	88.88	5.524	
11,700.0	7,740.0	7,855.1	7,783.7	77.7	18.9	90.82	3,583.4	1,970.3	555.1	464.5	90.61	6.127	
11,800.0	7,740.0	7,856.9	7,785.5	79.3	18.9	91.07	3,583.4	1,970.3	628.7	536.3	92.33	6.809	
11,900.0	7,740.0	7,858.6	7,787.2	80.9	18.9	91.32	3,583.4	1,970.3	708.7	614.7	94.05	7.536	
12,000.0	7,740.0	7,860.3	7,788.9	82.5	18.9	91.57	3,583.4	1,970.3	793.3	697.6	95.77	8.284	
12,100.0	7,740.0	7,862.1	7,790.6	84.2	18.9	91.81	3,583.5	1,970.3	881.2	783.7	97.49	9.039	
12,200.0	7,740.0	7,863.8	7,792.4	85.8	18.9	92.06	3,583.5	1,970.3	971.3	872.1	99.20	9.791	
12,300.0	7,740.0	7,865.5	7,794.1	87.4	18.9	92.30	3,583.5	1,970.3	1,063.3	962.3	100.92	10.536	
12,400.0	7,740.0	7,867.2	7,795.8	89.1	18.9	92.54	3,583.6	1,970.3	1,156.5	1,053.9	102.64	11.268	
12,500.0	7,740.0	7,868.9	7,797.4	90.7	18.9	92.79	3,583.6	1,970.3	1,250.8	1,146.5	104.35	11.987	
12,600.0	7,740.0	7,870.5	7,799.1	92.4	18.9	93.03	3,583.6	1,970.3	1,346.0	1,239.9	106.06	12.690	
12,700.0	7,740.0	7,872.2	7,800.8	94.0	18.9	93.27	3,583.7	1,970.3	1,441.8	1,334.0	107.77	13.378	
12,800.0	7,740.0	7,873.9	7,802.5	95.7	18.9	93.50	3,583.7	1,970.3	1,538.1	1,428.6	109.48	14.048	
12,900.0	7,740.0	7,875.5	7,804.1	97.3	18.9	93.74	3,583.7	1,970.3	1,634.8	1,523.7	111.19	14.703	
13,000.0	7,740.0	7,877.2	7,805.8	99.0	18.9	93.97	3,583.7	1,970.3	1,732.0	1,619.1	112.90	15.341	
13,100.0	7,740.0	7,878.8	7,807.4	100.7	18.9	94.21	3,583.8	1,970.3	1,829.4	1,714.8	114.60	15.963	
13,200.0	7,740.0	7,880.5	7,809.0	102.3	18.9	94.44	3,583.8	1,970.3	1,927.1	1,810.8	116.31	16.569	
13,300.0	7,740.0	7,882.1	7,810.7	104.0	18.9	94.67	3,583.8	1,970.3	2,025.0	1,907.0	118.01	17.160	
13,400.0	7,740.0	7,883.7	7,812.3	105.7	18.9	94.90	3,583.9	1,970.3	2,123.1	2,003.4	119.70	17.737	
13,500.0	7,740.0	7,885.3	7,813.9	107.3	18.9	95.13	3,583.9	1,970.3	2,221.4	2,100.0	121.40	18.298	
13,600.0	7,740.0	7,886.9	7,815.5	109.0	18.9	95.36	3,583.9	1,970.4	2,319.8	2,196.8	123.09	18.846	
13,700.0	7,740.0	7,888.5	7,817.1	110.7	18.9	95.59	3,583.9	1,970.4	2,418.4	2,293.6	124.78	19.381	
13,800.0	7,740.0	7,890.1	7,818.7	112.4	18.9	95.81	3,584.0	1,970.4	2,517.1	2,390.6	126.47	19.902	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - BULTHAUP 23-6 (EXISTING) - KERR-MCGEE WEL													Offset Site Error: 0.0 ft
Survey Program: 771-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
13,900.0	7,740.0	7,891.7	7,820.3	114.1	18.9	96.04	3,584.0	1,970.4	2,615.8	2,487.7	128.16	20.411	
14,000.0	7,740.0	7,893.3	7,821.8	115.8	18.9	96.26	3,584.0	1,970.4	2,714.7	2,584.8	129.84	20.908	
14,100.0	7,740.0	7,894.8	7,823.4	117.5	18.9	96.48	3,584.0	1,970.4	2,813.6	2,682.1	131.52	21.393	
14,200.0	7,740.0	7,896.4	7,825.0	119.2	18.9	96.70	3,584.1	1,970.4	2,912.6	2,779.4	133.20	21.867	
14,300.0	7,740.0	7,897.9	7,826.5	120.8	18.9	96.92	3,584.1	1,970.4	3,011.7	2,876.8	134.88	22.330	
14,400.0	7,740.0	7,899.5	7,828.1	122.5	18.9	97.14	3,584.1	1,970.4	3,110.8	2,974.3	136.55	22.782	
14,500.0	7,740.0	7,901.0	7,829.6	124.2	18.9	97.36	3,584.1	1,970.4	3,210.0	3,071.8	138.22	23.224	
14,600.0	7,740.0	7,902.6	7,831.1	125.9	18.9	97.58	3,584.2	1,970.4	3,309.3	3,169.4	139.88	23.657	
14,700.0	7,740.0	7,904.1	7,832.7	127.6	18.9	97.79	3,584.2	1,970.4	3,408.5	3,267.0	141.55	24.080	
14,800.0	7,740.0	7,905.6	7,834.2	129.3	18.9	98.00	3,584.2	1,970.4	3,507.8	3,364.6	143.21	24.494	
14,844.9	7,740.0	7,906.3	7,834.9	130.1	18.9	98.10	3,584.2	1,970.4	3,552.4	3,408.5	143.95	24.677	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	29.0	29.0	0.0	0.0	65.06	1,870.9	4,022.4	4,436.2					
100.0	100.0	129.0	129.0	0.2	0.2	65.06	1,870.9	4,022.4	4,436.2	4,435.9	0.35	N/A		
200.0	200.0	274.6	274.6	0.3	0.5	65.05	1,871.0	4,021.9	4,436.1	4,435.3	0.78	5,663.285		
250.0	250.0	403.2	403.1	0.4	0.7	65.03	1,871.7	4,018.9	4,435.1	4,434.0	1.10	4,040.768		
300.0	300.0	531.5	531.3	0.5	0.9	-35.04	1,873.0	4,013.1	4,433.1	4,431.7	1.42	3,130.527		
400.0	400.0	786.5	785.5	0.7	1.5	-35.28	1,877.6	3,993.2	4,425.3	4,423.3	2.08	2,129.496		
500.0	499.9	1,038.1	1,035.2	0.9	2.2	-35.67	1,884.6	3,962.8	4,412.8	4,410.0	2.79	1,581.031		
600.0	599.8	1,284.7	1,278.3	1.1	3.0	-36.21	1,893.8	3,922.6	4,395.4	4,391.8	3.57	1,230.914		
700.0	699.5	1,525.0	1,513.2	1.3	3.9	-36.90	1,905.0	3,873.7	4,373.5	4,369.1	4.43	986.367		
800.0	799.2	1,699.8	1,682.8	1.5	4.7	-37.56	1,914.5	3,832.3	4,347.6	4,342.4	5.18	838.830		
900.0	898.6	1,793.4	1,773.4	1.7	5.1	-38.02	1,919.8	3,809.3	4,319.8	4,314.1	5.70	758.370		
1,000.0	997.9	1,886.4	1,863.3	2.0	5.6	-38.52	1,925.0	3,786.5	4,290.9	4,284.7	6.23	689.267		
1,100.0	1,096.9	1,978.7	1,952.7	2.3	6.0	-39.04	1,930.2	3,763.8	4,260.8	4,254.1	6.77	629.191		
1,200.0	1,195.7	2,070.4	2,041.4	2.6	6.4	-39.59	1,935.4	3,741.3	4,229.6	4,222.3	7.34	576.409		
1,300.0	1,294.1	2,161.3	2,129.4	2.9	6.9	-40.17	1,940.5	3,718.9	4,197.2	4,189.3	7.93	529.615		
1,400.0	1,392.3	2,251.5	2,216.6	3.3	7.3	-40.78	1,945.6	3,696.8	4,163.8	4,155.3	8.54	487.810		
1,500.0	1,490.1	2,340.9	2,303.2	3.7	7.7	-41.42	1,950.6	3,674.8	4,129.3	4,120.1	9.17	450.214		
1,600.0	1,587.5	2,429.5	2,388.9	4.1	8.2	-42.10	1,955.6	3,653.0	4,093.8	4,083.9	9.84	416.215		
1,700.0	1,684.6	2,517.3	2,473.9	4.5	8.6	-42.80	1,960.5	3,631.4	4,057.3	4,046.7	10.53	385.325		
1,750.0	1,732.9	2,560.9	2,516.1	4.8	8.8	-43.17	1,963.0	3,620.7	4,038.7	4,027.8	10.89	370.977		
1,800.0	1,781.2	2,604.4	2,558.2	5.0	9.0	-41.37	1,965.4	3,610.1	4,019.8	4,008.6	11.21	358.520		
1,900.0	1,877.8	2,691.4	2,642.4	5.5	9.4	-37.77	1,970.3	3,588.7	3,981.6	3,969.8	11.85	336.000		
1,981.2	1,956.2	2,762.1	2,710.8	5.9	9.7	-34.83	1,974.3	3,571.3	3,950.0	3,937.7	12.36	319.645		
2,000.0	1,974.4	2,778.5	2,726.7	6.0	9.8	-34.87	1,975.2	3,567.3	3,942.7	3,930.2	12.48	315.842		
2,100.0	2,071.3	2,866.2	2,811.5	6.4	10.2	-35.07	1,980.2	3,545.7	3,904.5	3,891.3	13.14	297.107		
2,181.5	2,150.7	2,938.3	2,881.3	6.7	10.6	-35.24	1,984.2	3,528.0	3,874.5	3,860.8	13.68	283.308		
2,200.0	2,168.6	2,954.7	2,897.1	6.8	10.7	-35.32	1,985.2	3,524.0	3,867.8	3,854.0	13.80	280.269		
2,300.0	2,266.1	3,043.4	2,983.0	7.3	11.1	-35.75	1,990.2	3,502.2	3,831.8	3,817.3	14.48	264.625		
2,400.0	2,363.5	3,132.2	3,068.9	7.7	11.5	-36.20	1,995.2	3,480.4	3,796.0	3,780.8	15.17	250.248		
2,500.0	2,461.0	3,220.9	3,154.8	8.1	12.0	-36.65	2,000.2	3,458.6	3,760.4	3,744.6	15.87	236.997		
2,600.0	2,558.4	3,309.7	3,240.6	8.6	12.4	-37.11	2,005.2	3,436.8	3,725.1	3,708.5	16.57	224.750		
2,700.0	2,655.8	3,398.4	3,326.5	9.0	12.8	-37.58	2,010.2	3,415.0	3,690.0	3,672.7	17.29	213.404		
2,800.0	2,753.3	3,487.1	3,412.4	9.4	13.2	-38.05	2,015.2	3,393.2	3,655.1	3,637.1	18.02	202.867		
2,900.0	2,850.7	3,575.9	3,498.3	9.9	13.7	-38.54	2,020.2	3,371.4	3,620.5	3,601.8	18.75	193.061		
3,000.0	2,948.2	3,664.6	3,584.2	10.3	14.1	-39.03	2,025.2	3,349.6	3,586.2	3,566.7	19.50	183.918		
3,100.0	3,045.6	3,753.4	3,670.0	10.7	14.5	-39.53	2,030.2	3,327.8	3,552.1	3,531.8	20.25	175.376		
3,200.0	3,143.0	3,842.1	3,755.9	11.2	14.9	-40.04	2,035.2	3,306.0	3,518.3	3,497.2	21.02	167.383		
3,300.0	3,240.5	3,930.9	3,841.8	11.6	15.4	-40.55	2,040.2	3,284.2	3,484.7	3,462.9	21.79	159.892		
3,400.0	3,337.9	4,019.6	3,927.7	12.0	15.8	-41.08	2,045.2	3,262.4	3,451.5	3,428.9	22.58	152.860		
3,500.0	3,435.3	4,108.4	4,013.6	12.5	16.2	-41.61	2,050.2	3,240.6	3,418.6	3,395.2	23.37	146.250		
3,600.0	3,532.8	4,197.1	4,099.4	12.9	16.7	-42.16	2,055.2	3,218.8	3,385.9	3,361.7	24.18	140.029		
3,700.0	3,630.2	4,285.9	4,185.3	13.3	17.1	-42.71	2,060.2	3,197.0	3,353.6	3,328.6	25.00	134.167		
3,800.0	3,727.7	4,374.6	4,271.2	13.8	17.5	-43.28	2,065.2	3,175.2	3,321.6	3,295.8	25.82	128.637		
3,900.0	3,825.1	4,463.3	4,357.1	14.2	18.0	-43.85	2,070.2	3,153.4	3,289.9	3,263.3	26.66	123.415		
4,000.0	3,922.5	4,552.1	4,443.0	14.6	18.4	-44.43	2,075.2	3,131.6	3,258.6	3,231.1	27.50	118.478		
4,100.0	4,020.0	4,640.8	4,528.8	15.1	18.8	-45.02	2,080.1	3,109.8	3,227.7	3,199.3	28.36	113.808		
4,200.0	4,117.4	4,729.6	4,614.7	15.5	19.2	-45.62	2,085.1	3,088.0	3,197.1	3,167.8	29.23	109.385		
4,300.0	4,214.9	4,818.3	4,700.6	16.0	19.7	-46.24	2,090.1	3,066.1	3,166.9	3,136.7	30.10	105.194		
4,400.0	4,312.3	4,907.1	4,786.5	16.4	20.1	-46.86	2,095.1	3,044.3	3,137.0	3,106.0	30.99	101.219		
4,500.0	4,409.7	4,995.8	4,872.4	16.8	20.5	-47.49	2,100.1	3,022.5	3,107.6	3,075.7	31.89	97.447		
4,600.0	4,507.2	5,084.6	4,958.2	17.3	21.0	-48.13	2,105.1	3,000.7	3,078.6	3,045.8	32.80	93.866		
4,700.0	4,604.6	5,173.3	5,044.1	17.7	21.4	-48.79	2,110.1	2,978.9	3,049.9	3,016.2	33.71	90.463		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
4,800.0	4,702.0	5,262.1	5,130.0	18.1	21.8	-49.45	2,115.1	2,957.1	3,021.8	2,987.1	34.64	87.229				
4,900.0	4,799.5	5,350.8	5,215.9	18.6	22.3	-50.12	2,120.1	2,935.3	2,994.0	2,958.5	35.58	84.153				
5,000.0	4,896.9	5,698.9	7,530.0	19.0	48.2	-1.91	-52.1	2,348.2	2,963.4	2,918.1	45.27	65.463				
5,100.0	4,994.4	5,699.3	7,530.0	19.4	48.2	-1.88	-52.5	2,348.2	2,867.2	2,821.7	45.46	63.065				
5,200.0	5,091.8	5,699.7	7,530.0	19.9	48.2	-1.85	-52.9	2,348.2	2,771.2	2,725.5	45.66	60.693				
5,300.0	5,189.2	5,700.1	7,530.0	20.3	48.2	-1.82	-53.3	2,348.2	2,675.5	2,629.7	45.86	58.348				
5,400.0	5,286.7	5,700.5	7,530.0	20.8	48.2	-1.79	-53.7	2,348.2	2,580.2	2,534.1	46.05	56.029				
5,500.0	5,384.1	5,701.0	7,530.0	21.2	48.2	-1.76	-54.2	2,348.2	2,485.2	2,439.0	46.25	53.738				
5,600.0	5,481.6	5,701.4	7,530.0	21.6	48.2	-1.73	-54.6	2,348.2	2,390.7	2,344.2	46.44	51.476				
5,700.0	5,579.0	5,701.8	7,530.0	22.1	48.2	-1.70	-55.0	2,348.2	2,296.6	2,249.9	46.64	49.242				
5,800.0	5,676.4	5,702.2	7,530.0	22.5	48.2	-1.67	-55.4	2,348.2	2,203.0	2,156.1	46.83	47.038				
5,900.0	5,773.9	5,702.6	7,530.0	22.9	48.2	-1.64	-55.8	2,348.2	2,110.0	2,062.9	47.03	44.865				
6,000.0	5,871.3	5,703.1	7,530.0	23.4	48.2	-1.61	-56.3	2,348.2	2,017.7	1,970.4	47.22	42.724				
6,100.0	5,968.7	5,703.5	7,530.0	23.8	48.2	-1.58	-56.7	2,348.2	1,926.1	1,878.7	47.42	40.617				
6,200.0	6,066.2	5,703.9	7,530.0	24.3	48.2	-1.55	-57.1	2,348.2	1,835.4	1,787.8	47.62	38.546				
6,300.0	6,163.6	5,704.3	7,530.0	24.7	48.2	-1.52	-57.5	2,348.2	1,745.8	1,697.9	47.81	36.513				
6,400.0	6,261.1	5,704.7	7,530.0	25.1	48.3	-1.49	-57.9	2,348.2	1,657.3	1,609.3	48.01	34.522				
6,500.0	6,358.5	5,705.2	7,530.0	25.6	48.3	-1.45	-58.4	2,348.2	1,570.2	1,522.0	48.20	32.575				
6,600.0	6,455.9	5,705.6	7,530.0	26.0	48.3	-1.42	-58.8	2,348.2	1,484.7	1,436.3	48.40	30.677				
6,700.0	6,553.4	5,706.0	7,530.0	26.5	48.3	-1.39	-59.2	2,348.2	1,401.2	1,352.6	48.59	28.835				
6,800.0	6,650.8	5,706.4	7,530.0	26.9	48.3	-1.36	-59.6	2,348.2	1,319.9	1,271.1	48.79	27.054				
6,900.0	6,748.3	5,706.8	7,530.0	27.3	48.3	-1.33	-60.0	2,348.2	1,241.4	1,192.4	48.98	25.343				
7,000.0	6,845.7	5,707.3	7,530.0	27.8	48.3	-1.30	-60.5	2,348.2	1,166.2	1,117.0	49.18	23.713				
7,100.0	6,943.1	5,707.7	7,530.0	28.2	48.3	-1.27	-60.9	2,348.2	1,095.0	1,045.6	49.38	22.177				
7,200.0	7,040.6	5,708.1	7,530.0	28.6	48.3	-1.24	-61.3	2,348.2	1,028.5	979.0	49.57	20.749				
7,300.0	7,138.0	5,708.5	7,530.0	29.1	48.3	-1.21	-61.7	2,348.2	967.9	918.1	49.77	19.449				
7,341.8	7,178.7	5,708.7	7,530.0	29.3	48.3	-1.20	-61.9	2,348.2	944.5	894.7	49.85	18.948				
7,350.0	7,186.7	5,708.7	7,530.0	29.3	48.3	2.88	-61.9	2,348.2	940.1	890.0	50.09	18.769				
7,400.0	7,235.4	5,706.0	7,530.0	29.5	48.3	26.09	-59.2	2,348.2	914.2	862.8	51.43	17.777				
7,450.0	7,283.6	5,699.0	7,530.0	29.7	48.2	43.99	-52.2	2,348.2	890.6	838.1	52.49	16.967				
7,500.0	7,331.0	5,687.7	7,530.0	29.9	48.0	56.39	-40.8	2,348.2	869.6	816.4	53.21	16.342				
7,550.0	7,377.4	5,672.1	7,530.0	30.1	47.8	64.72	-25.3	2,348.2	851.2	797.7	53.55	15.896				
7,600.0	7,422.2	5,652.5	7,530.0	30.3	47.6	70.25	-5.7	2,348.2	835.7	782.2	53.51	15.617				
7,650.0	7,465.2	5,629.0	7,530.0	30.5	47.3	73.82	17.8	2,348.2	822.9	769.8	53.13	15.490 SF				
7,700.0	7,506.0	5,601.7	7,530.0	30.7	46.9	76.00	45.1	2,348.2	812.9	760.4	52.45	15.498				
7,750.0	7,544.4	5,570.9	7,530.0	30.9	46.6	77.14	75.9	2,348.2	805.3	753.8	51.55	15.622				
7,800.0	7,580.0	5,536.8	7,530.0	31.1	46.1	77.52	110.0	2,348.2	800.0	749.5	50.50	15.843				
7,850.0	7,612.6	5,499.6	7,530.0	31.3	45.7	77.35	147.2	2,348.2	796.6	747.3	49.36	16.138				
7,900.0	7,641.9	5,459.6	7,530.0	31.5	45.2	76.82	187.2	2,348.2	794.8	746.6	48.23	16.481 ES				
7,950.0	7,667.7	5,417.2	7,530.0	31.7	44.7	76.06	229.6	2,348.2	794.2	747.0	47.15	16.845				
7,960.1	7,672.5	5,408.3	7,530.0	31.8	44.6	75.89	238.5	2,348.2	794.2	747.2	46.94	16.918 CC				
8,000.0	7,689.8	5,372.6	7,530.0	32.0	44.2	75.20	274.2	2,348.2	794.4	748.2	46.19	17.199				
8,050.0	7,708.0	5,326.3	7,530.0	32.2	43.6	74.36	320.5	2,348.2	795.1	749.7	45.39	17.515				
8,100.0	7,722.3	5,278.4	7,530.0	32.4	43.1	73.62	368.4	2,348.2	796.0	751.2	44.80	17.767				
8,150.0	7,732.4	5,229.5	7,530.0	32.7	42.6	73.05	417.3	2,348.1	796.9	752.4	44.42	17.939				
8,200.0	7,738.3	5,179.9	7,530.0	33.0	42.0	72.69	466.9	2,348.1	797.5	753.3	44.23	18.030				
8,244.9	7,740.0	5,135.1	7,530.0	33.2	41.5	72.57	511.7	2,348.1	797.9	753.7	44.21	18.049				
8,300.0	7,740.0	5,080.0	7,530.0	33.5	40.9	72.58	566.8	2,348.1	798.1	754.2	43.96	18.155				
8,400.0	7,740.0	5,080.0	7,530.0	34.1	39.9	72.59	666.8	2,348.1	798.6	755.0	43.61	18.312				
8,500.0	7,740.0	5,080.0	7,530.0	34.8	39.0	72.60	766.8	2,348.1	799.1	755.8	43.37	18.427				
8,600.0	7,740.0	5,080.0	7,530.0	35.6	38.1	72.61	866.8	2,348.1	799.6	756.4	43.22	18.501				
8,700.0	7,740.0	5,080.0	7,530.0	36.5	37.2	72.62	966.8	2,348.1	800.1	756.9	43.17	18.534				

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,740.0	8,580.0	7,530.0	37.4	36.5	72.63	1,066.8	2,348.0	800.6	757.4	43.21	18.528		
8,900.0	7,740.0	8,480.0	7,530.0	38.3	35.8	72.64	1,166.8	2,348.0	801.1	757.7	43.34	18.481		
9,000.0	7,740.0	8,380.0	7,530.0	39.4	35.1	72.65	1,266.8	2,348.0	801.5	758.0	43.58	18.391		
9,100.0	7,740.0	8,280.0	7,530.0	40.4	34.6	72.66	1,366.8	2,348.0	802.0	758.1	43.94	18.254		
9,200.0	7,740.0	8,180.0	7,530.0	41.6	34.1	72.67	1,466.8	2,348.0	802.5	758.1	44.41	18.069		
9,300.0	7,740.0	8,100.0	7,528.3	42.7	33.8	72.58	1,546.8	2,348.4	804.1	759.0	45.18	17.798		
9,400.0	7,740.0	8,050.0	7,523.3	43.9	33.6	72.27	1,596.5	2,349.7	810.2	763.9	46.24	17.522		
9,500.0	7,740.0	7,982.9	7,511.2	45.2	33.3	71.53	1,662.4	2,352.7	820.9	773.8	47.14	17.413		
9,600.0	7,740.0	7,924.5	7,496.0	46.4	33.1	70.62	1,718.6	2,356.6	836.6	788.5	48.12	17.385		
9,700.0	7,740.0	7,869.1	7,477.4	47.7	33.0	69.53	1,770.6	2,361.3	857.4	808.2	49.12	17.456		
9,800.0	7,740.0	7,817.1	7,456.4	49.1	32.8	68.33	1,817.9	2,366.6	883.3	833.2	50.12	17.624		
9,900.0	7,740.0	7,768.5	7,434.0	50.4	32.7	67.08	1,860.5	2,372.3	914.6	863.5	51.14	17.886		
10,000.0	7,740.0	7,723.6	7,410.7	51.8	32.5	65.84	1,898.5	2,378.2	951.2	899.0	52.15	18.238		
10,100.0	7,740.0	7,682.2	7,387.3	53.2	32.4	64.62	1,932.1	2,384.1	992.9	939.7	53.18	18.671		
10,200.0	7,740.0	7,650.0	7,367.8	54.6	32.4	63.64	1,957.2	2,389.1	1,039.5	985.2	54.28	19.152		
10,300.0	7,740.0	7,600.0	7,335.4	56.1	32.2	62.08	1,994.4	2,397.3	1,090.8	1,035.7	55.11	19.795		
10,400.0	7,740.0	7,577.3	7,319.8	57.6	32.2	61.35	2,010.5	2,401.2	1,146.3	1,090.1	56.27	20.372		
10,500.0	7,740.0	7,550.0	7,300.5	59.0	32.1	60.47	2,029.1	2,406.1	1,205.9	1,148.5	57.34	21.032		
10,600.0	7,740.0	7,521.3	7,279.5	60.5	32.0	59.55	2,047.9	2,411.5	1,269.0	1,210.7	58.36	21.747		
10,700.0	7,740.0	7,500.0	7,263.4	62.0	32.0	58.86	2,061.3	2,415.6	1,335.5	1,276.0	59.46	22.460		
10,800.0	7,740.0	7,474.1	7,243.3	63.5	31.9	58.02	2,076.9	2,420.6	1,404.9	1,344.4	60.47	23.234		
10,900.0	7,740.0	7,450.0	7,224.2	65.1	31.8	57.25	2,090.7	2,425.5	1,476.9	1,415.5	61.47	24.025		
11,000.0	7,740.0	7,450.0	7,224.2	66.6	31.8	57.25	2,090.7	2,425.5	1,551.6	1,488.7	62.91	24.665		
11,100.0	7,740.0	7,400.0	7,183.1	68.2	31.7	55.66	2,117.2	2,435.9	1,628.2	1,564.8	63.37	25.692		
11,200.0	7,740.0	7,400.0	7,183.1	69.7	31.7	55.66	2,117.2	2,435.9	1,706.4	1,641.6	64.78	26.340		
11,300.0	7,740.0	7,400.0	7,183.1	71.3	31.7	55.66	2,117.2	2,435.9	1,786.8	1,720.6	66.20	26.992		
11,400.0	7,740.0	7,371.0	7,158.5	72.9	31.6	54.75	2,131.2	2,442.2	1,868.3	1,801.3	66.99	27.888		
11,500.0	7,740.0	7,350.0	7,140.4	74.5	31.6	54.10	2,140.7	2,446.8	1,951.4	1,883.5	67.93	28.726		
11,600.0	7,740.0	7,350.0	7,140.4	76.1	31.6	54.10	2,140.7	2,446.8	2,035.7	1,966.4	69.32	29.365		
11,700.0	7,740.0	7,350.0	7,140.4	77.7	31.6	54.10	2,140.7	2,446.8	2,121.4	2,050.7	70.72	29.998		
11,800.0	7,740.0	7,323.7	7,117.2	79.3	31.5	53.30	2,151.8	2,452.6	2,207.6	2,136.2	71.49	30.882		
11,900.0	7,740.0	7,300.0	7,096.1	80.9	31.4	52.59	2,161.0	2,458.0	2,295.2	2,222.9	72.29	31.748		
12,000.0	7,740.0	7,300.0	7,096.1	82.5	31.4	52.59	2,161.0	2,458.0	2,383.3	2,309.6	73.66	32.353		
12,100.0	7,740.0	7,300.0	7,096.1	84.2	31.4	52.59	2,161.0	2,458.0	2,472.3	2,397.2	75.04	32.948		
12,200.0	7,740.0	7,300.0	7,096.1	85.8	31.4	52.59	2,161.0	2,458.0	2,562.1	2,485.6	76.41	33.531		
12,300.0	7,740.0	7,279.4	7,077.5	87.4	31.3	51.98	2,168.5	2,462.7	2,652.2	2,575.0	77.23	34.340		
12,400.0	7,740.0	7,272.1	7,070.8	89.1	31.3	51.77	2,171.0	2,464.4	2,743.1	2,664.7	78.40	34.989		
12,500.0	7,740.0	7,250.0	7,050.6	90.7	31.2	51.13	2,178.2	2,469.6	2,834.7	2,755.5	79.15	35.814		
12,600.0	7,740.0	7,250.0	7,050.6	92.4	31.2	51.13	2,178.2	2,469.6	2,926.5	2,846.0	80.50	36.353		
12,700.0	7,740.0	7,250.0	7,050.6	94.0	31.2	51.13	2,178.2	2,469.6	3,018.7	2,936.9	81.85	36.881		
12,800.0	7,740.0	7,250.0	7,050.6	95.7	31.2	51.13	2,178.2	2,469.6	3,111.5	3,028.3	83.20	37.397		
12,900.0	7,740.0	7,250.0	7,050.6	97.3	31.2	51.13	2,178.2	2,469.6	3,204.7	3,120.1	84.55	37.902		
13,000.0	7,740.0	7,250.0	7,050.6	99.0	31.2	51.13	2,178.2	2,469.6	3,298.3	3,212.4	85.91	38.395		
13,100.0	7,740.0	7,250.0	7,050.6	100.7	31.2	51.13	2,178.2	2,469.6	3,392.3	3,305.0	87.26	38.876		
13,200.0	7,740.0	7,225.2	7,027.6	102.3	31.2	50.43	2,185.4	2,475.4	3,486.0	3,398.2	87.84	39.688		
13,300.0	7,740.0	7,200.0	7,004.0	104.0	31.1	49.74	2,191.9	2,481.4	3,580.8	3,492.4	88.38	40.516		
13,400.0	7,740.0	7,200.0	7,004.0	105.7	31.1	49.74	2,191.9	2,481.4	3,675.3	3,585.6	89.71	40.970		
13,500.0	7,740.0	7,200.0	7,004.0	107.3	31.1	49.74	2,191.9	2,481.4	3,770.1	3,679.1	91.04	41.413		
13,600.0	7,740.0	7,200.0	7,004.0	109.0	31.1	49.74	2,191.9	2,481.4	3,865.2	3,772.8	92.37	41.846		
13,700.0	7,740.0	7,200.0	7,004.0	110.7	31.1	49.74	2,191.9	2,481.4	3,960.5	3,866.8	93.70	42.270		
13,800.0	7,740.0	7,200.0	7,004.0	112.4	31.1	49.74	2,191.9	2,481.4	4,056.0	3,961.0	95.03	42.684		
13,900.0	7,740.0	7,200.0	7,004.0	114.1	31.1	49.74	2,191.9	2,481.4	4,151.8	4,055.4	96.36	43.088		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1A-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,000.0	7,740.0	7,200.0	7,004.0	115.8	31.1	49.74	2,191.9	2,481.4	4,247.7	4,150.1	97.69	43.483		
14,100.0	7,740.0	7,200.0	7,004.0	117.5	31.1	49.74	2,191.9	2,481.4	4,343.9	4,244.9	99.02	43.869		
14,200.0	7,740.0	7,200.0	7,004.0	119.2	31.1	49.74	2,191.9	2,481.4	4,440.2	4,339.8	100.35	44.247		
14,300.0	7,740.0	7,200.0	7,004.0	120.8	31.1	49.74	2,191.9	2,481.4	4,536.6	4,434.9	101.68	44.616		
14,400.0	7,740.0	7,200.0	7,004.0	122.5	31.1	49.74	2,191.9	2,481.4	4,633.2	4,530.2	103.01	44.976		
14,500.0	7,740.0	7,177.7	6,983.0	124.2	31.0	49.14	2,197.0	2,486.7	4,729.6	4,626.1	103.50	45.695		
14,600.0	7,740.0	7,175.0	6,980.4	125.9	31.0	49.07	2,197.6	2,487.4	4,826.4	4,721.7	104.72	46.088		
14,700.0	7,740.0	7,172.3	6,977.8	127.6	31.0	49.00	2,198.1	2,488.0	4,923.3	4,817.3	105.94	46.473		
14,800.0	7,740.0	7,150.0	6,956.6	129.3	30.9	48.41	2,202.4	2,493.4	5,020.6	4,914.2	106.39	47.190		
14,844.9	7,740.0	7,150.0	6,956.6	130.1	30.9	48.41	2,202.4	2,493.4	5,064.1	4,957.1	106.98	47.338		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 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	29.0	29.0	0.0	0.0	65.11	1,870.9	4,032.5	4,445.4					
100.0	100.0	129.0	129.0	0.2	0.2	65.11	1,870.9	4,032.5	4,445.4	4,445.0	0.35	N/A		
200.0	200.0	229.0	229.0	0.3	0.4	65.11	1,870.9	4,032.5	4,445.4	4,444.6	0.70	6,320.093		
250.0	250.0	321.7	321.7	0.4	0.5	65.11	1,871.0	4,032.0	4,445.2	4,444.3	0.95	4,666.051		
300.0	300.0	445.2	445.2	0.5	0.8	-34.93	1,871.8	4,029.3	4,444.1	4,442.9	1.26	3,534.231		
400.0	400.0	691.2	690.8	0.7	1.2	-35.10	1,875.3	4,016.1	4,438.5	4,436.6	1.88	2,358.302		
500.0	499.9	934.7	933.0	0.9	1.8	-35.43	1,881.5	3,993.0	4,428.1	4,425.5	2.55	1,739.646		
600.0	599.8	1,174.1	1,170.1	1.1	2.5	-35.90	1,890.1	3,960.7	4,413.2	4,409.9	3.27	1,351.637		
700.0	699.5	1,408.1	1,400.2	1.3	3.3	-36.51	1,901.0	3,919.8	4,393.8	4,389.8	4.06	1,083.158		
800.0	799.2	1,535.6	1,524.9	1.5	3.8	-36.97	1,907.9	3,894.2	4,371.0	4,366.4	4.61	948.091		
900.0	898.6	1,630.6	1,617.8	1.7	4.2	-37.38	1,913.1	3,874.9	4,346.9	4,341.8	5.09	854.493		
1,000.0	997.9	1,725.1	1,710.2	2.0	4.5	-37.82	1,918.2	3,855.7	4,321.5	4,316.0	5.58	774.772		
1,100.0	1,096.9	1,819.0	1,802.0	2.3	4.9	-38.28	1,923.3	3,836.7	4,294.9	4,288.9	6.08	705.952		
1,200.0	1,195.7	1,912.3	1,893.2	2.6	5.3	-38.77	1,928.3	3,817.7	4,267.1	4,260.5	6.61	645.849		
1,300.0	1,294.1	2,004.9	1,983.8	2.9	5.7	-39.29	1,933.4	3,798.9	4,238.2	4,231.0	7.15	592.834		
1,400.0	1,392.3	2,096.9	2,073.7	3.3	6.0	-39.83	1,938.4	3,780.3	4,208.0	4,200.3	7.71	545.668		
1,500.0	1,490.1	2,188.2	2,163.0	3.7	6.4	-40.41	1,943.3	3,761.7	4,176.8	4,168.5	8.30	503.400		
1,600.0	1,587.5	2,278.7	2,251.5	4.1	6.8	-41.01	1,948.2	3,743.4	4,144.5	4,135.5	8.91	465.285		
1,700.0	1,684.6	2,368.5	2,339.3	4.5	7.1	-41.65	1,953.1	3,725.1	4,111.1	4,101.5	9.54	430.734		
1,750.0	1,732.9	2,413.2	2,382.9	4.8	7.3	-41.98	1,955.5	3,716.1	4,094.0	4,084.1	9.87	414.713		
1,800.0	1,781.2	2,457.7	2,426.4	5.0	7.5	-40.18	1,958.0	3,707.0	4,076.7	4,066.5	10.18	400.611		
1,900.0	1,877.8	2,546.8	2,513.5	5.5	7.8	-36.55	1,962.8	3,689.0	4,041.5	4,030.7	10.77	375.230		
1,981.2	1,956.2	2,619.1	2,584.3	5.9	8.1	-33.60	1,966.7	3,674.3	4,012.3	4,001.1	11.24	356.875		
2,000.0	1,974.4	2,635.9	2,600.7	6.0	8.2	-33.64	1,967.6	3,670.9	4,005.5	3,994.2	11.36	352.606		
2,100.0	2,071.3	2,725.6	2,688.4	6.4	8.6	-33.82	1,972.5	3,652.7	3,970.3	3,958.4	11.97	331.634		
2,181.5	2,150.7	2,799.3	2,760.5	6.7	8.9	-33.97	1,976.5	3,637.7	3,942.8	3,930.3	12.47	316.240		
2,200.0	2,168.6	2,816.1	2,776.8	6.8	8.9	-34.05	1,977.4	3,634.3	3,936.6	3,924.1	12.58	312.884		
2,300.0	2,266.1	2,906.7	2,865.5	7.3	9.3	-34.43	1,982.3	3,615.9	3,903.6	3,890.4	13.20	295.631		
2,400.0	2,363.5	2,997.4	2,954.1	7.7	9.7	-34.83	1,987.3	3,597.5	3,870.7	3,856.9	13.83	279.795		
2,500.0	2,461.0	3,088.1	3,042.8	8.1	10.1	-35.23	1,992.2	3,579.1	3,838.0	3,823.5	14.47	265.215		
2,600.0	2,558.4	3,178.8	3,131.4	8.6	10.4	-35.64	1,997.1	3,560.7	3,805.5	3,790.4	15.12	251.752		
2,700.0	2,655.8	3,269.4	3,220.1	9.0	10.8	-36.05	2,002.0	3,542.3	3,773.2	3,757.4	15.77	239.288		
2,800.0	2,753.3	3,360.1	3,308.8	9.4	11.2	-36.48	2,006.9	3,523.9	3,741.1	3,724.6	16.43	227.721		
2,900.0	2,850.7	3,450.8	3,397.4	9.9	11.5	-36.90	2,011.9	3,505.5	3,709.1	3,692.0	17.10	216.960		
3,000.0	2,948.2	3,541.5	3,486.1	10.3	11.9	-37.34	2,016.8	3,487.1	3,677.4	3,659.7	17.77	206.929		
3,100.0	3,045.6	3,632.2	3,574.7	10.7	12.3	-37.78	2,021.7	3,468.7	3,645.9	3,627.5	18.45	197.559		
3,200.0	3,143.0	3,722.8	3,663.4	11.2	12.7	-38.23	2,026.6	3,450.3	3,614.6	3,595.5	19.15	188.791		
3,300.0	3,240.5	3,813.5	3,752.0	11.6	13.0	-38.68	2,031.6	3,431.9	3,583.6	3,563.7	19.85	180.573		
3,400.0	3,337.9	3,904.2	3,840.7	12.0	13.4	-39.15	2,036.5	3,413.5	3,552.7	3,532.2	20.55	172.856		
3,500.0	3,435.3	3,994.9	3,929.3	12.5	13.8	-39.61	2,041.4	3,395.1	3,522.1	3,500.9	21.27	165.601		
3,600.0	3,532.8	4,085.6	4,018.0	12.9	14.2	-40.09	2,046.3	3,376.7	3,491.8	3,469.8	21.99	158.769		
3,700.0	3,630.2	4,176.2	4,106.6	13.3	14.5	-40.58	2,051.3	3,358.3	3,461.7	3,438.9	22.73	152.327		
3,800.0	3,727.7	4,266.9	4,195.3	13.8	14.9	-41.07	2,056.2	3,339.9	3,431.8	3,408.3	23.47	146.246		
3,900.0	3,825.1	4,357.6	4,284.0	14.2	15.3	-41.57	2,061.1	3,321.5	3,402.2	3,378.0	24.22	140.499		
4,000.0	3,922.5	4,448.3	4,372.6	14.6	15.6	-42.08	2,066.0	3,303.1	3,372.9	3,347.9	24.97	135.062		
4,100.0	4,020.0	4,538.9	4,461.3	15.1	16.0	-42.59	2,070.9	3,284.7	3,343.8	3,318.1	25.74	129.912		
4,200.0	4,117.4	4,629.6	4,549.9	15.5	16.4	-43.12	2,075.9	3,266.3	3,315.0	3,288.5	26.51	125.031		
4,300.0	4,214.9	4,720.3	4,638.6	16.0	16.8	-43.65	2,080.8	3,247.9	3,286.5	3,259.2	27.30	120.399		
4,400.0	4,312.3	4,811.0	4,727.2	16.4	17.1	-44.19	2,085.7	3,229.5	3,258.3	3,230.3	28.09	116.001		
4,500.0	4,409.7	4,901.7	4,815.9	16.8	17.5	-44.74	2,090.6	3,211.1	3,230.5	3,201.6	28.89	111.821		
4,600.0	4,507.2	4,992.3	4,904.5	17.3	17.9	-45.30	2,095.6	3,192.7	3,202.9	3,173.2	29.70	107.846		
4,700.0	4,604.6	5,083.0	4,993.2	17.7	18.3	-45.86	2,100.5	3,174.2	3,175.6	3,145.1	30.52	104.063		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 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		
4,800.0	4,702.0	5,173.7	5,081.8	18.1	18.6	-46.44	2,105.4	3,155.8	3,148.7	3,117.4	31.34	100.461		
4,900.0	4,799.5	5,264.4	5,170.5	18.6	19.0	-47.02	2,110.3	3,137.4	3,122.1	3,089.9	32.18	97.029		
5,000.0	4,896.9	5,355.0	5,259.2	19.0	19.4	-47.61	2,115.2	3,119.0	3,095.9	3,062.8	33.02	93.756		
5,100.0	4,994.4	5,445.7	5,347.8	19.4	19.8	-48.22	2,120.2	3,100.6	3,070.0	3,036.1	33.87	90.635		
5,200.0	5,091.8	5,536.4	5,436.5	19.9	20.1	-48.83	2,125.1	3,082.2	3,044.5	3,009.7	34.73	87.657		
5,300.0	5,189.2	5,626.6	5,536.5	20.3	45.7	-1.74	-53.3	2,598.2	3,010.3	2,964.2	46.12	65.277		
5,400.0	5,286.7	5,717.1	5,626.6	20.8	45.7	-1.72	-53.7	2,598.2	2,915.9	2,869.6	46.31	62.970		
5,500.0	5,384.1	5,807.0	5,717.1	21.2	45.8	-1.69	-54.1	2,598.2	2,822.0	2,775.5	46.50	60.690		
5,600.0	5,481.6	5,897.9	5,807.0	21.6	45.8	-1.67	-54.5	2,598.2	2,728.5	2,681.8	46.69	58.438		
5,700.0	5,579.0	5,988.8	5,897.9	22.1	45.8	-1.64	-55.0	2,598.2	2,635.4	2,588.5	46.88	56.215		
5,800.0	5,676.4	6,079.7	5,988.8	22.5	45.8	-1.62	-55.4	2,598.2	2,542.9	2,495.8	47.07	54.021		
5,900.0	5,773.9	6,170.6	6,079.7	22.9	45.8	-1.59	-55.8	2,598.2	2,451.0	2,403.7	47.26	51.857		
6,000.0	5,871.3	6,261.5	6,170.6	23.4	45.8	-1.57	-56.2	2,598.2	2,359.7	2,312.2	47.45	49.725		
6,100.0	5,968.7	6,352.4	6,261.5	23.8	45.8	-1.54	-56.6	2,598.2	2,269.1	2,221.5	47.65	47.625		
6,200.0	6,066.2	6,443.3	6,352.4	24.3	45.8	-1.52	-57.1	2,598.2	2,179.4	2,131.6	47.84	45.559		
6,300.0	6,163.6	6,534.2	6,443.3	24.7	45.8	-1.50	-57.5	2,598.2	2,090.6	2,042.6	48.03	43.529		
6,400.0	6,261.1	6,625.1	6,534.2	25.1	45.8	-1.47	-57.9	2,598.2	2,002.9	1,954.7	48.22	41.537		
6,500.0	6,358.5	6,716.0	6,625.1	25.6	45.8	-1.45	-58.3	2,598.2	1,916.4	1,868.0	48.41	39.586		
6,600.0	6,455.9	6,806.9	6,716.0	26.0	45.8	-1.42	-58.7	2,598.2	1,831.3	1,782.6	48.60	37.678		
6,700.0	6,553.4	6,897.8	6,806.9	26.5	45.8	-1.40	-59.2	2,598.2	1,747.7	1,698.9	48.79	35.818		
6,800.0	6,650.8	6,988.7	6,897.8	26.9	45.8	-1.37	-59.6	2,598.2	1,665.9	1,616.9	48.99	34.009		
6,900.0	6,748.3	7,079.6	6,988.7	27.3	45.8	-1.35	-60.0	2,598.2	1,586.2	1,537.1	49.18	32.256		
7,000.0	6,845.7	7,170.5	7,079.6	27.8	45.8	-1.32	-60.4	2,598.2	1,509.0	1,459.6	49.37	30.567		
7,100.0	6,943.1	7,261.4	7,170.5	28.2	45.8	-1.30	-60.8	2,598.2	1,434.6	1,385.0	49.56	28.947		
7,200.0	7,040.6	7,352.3	7,261.4	28.6	45.8	-1.27	-61.3	2,598.2	1,363.4	1,313.7	49.75	27.405		
7,300.0	7,138.0	7,443.2	7,352.3	29.1	45.9	-1.25	-61.7	2,598.2	1,296.1	1,246.1	49.94	25.952		
7,341.8	7,178.7	7,484.1	7,392.1	29.3	45.9	-1.24	-61.9	2,598.2	1,269.2	1,219.2	50.02	25.373		
7,350.0	7,186.7	7,492.1	7,399.1	29.3	45.9	2.98	-61.8	2,598.2	1,264.0	1,213.7	50.28	25.141		
7,400.0	7,235.4	7,541.0	7,448.0	29.5	45.8	27.11	-59.1	2,598.2	1,233.2	1,181.4	51.80	23.808		
7,450.0	7,283.6	7,589.8	7,496.0	29.7	45.7	46.03	-52.1	2,598.2	1,204.0	1,150.8	53.19	22.636		
7,500.0	7,331.0	7,638.7	7,544.0	29.9	45.6	59.52	-40.8	2,598.2	1,176.5	1,122.2	54.34	21.653		
7,550.0	7,377.4	7,687.6	7,590.0	30.1	45.4	69.01	-25.3	2,598.2	1,151.1	1,096.0	55.18	20.864		
7,600.0	7,422.2	7,736.5	7,642.0	30.3	45.1	75.74	-7.7	2,598.2	1,128.0	1,072.3	55.67	20.261		
7,650.0	7,465.2	7,785.4	7,689.0	30.5	44.8	80.57	17.8	2,598.2	1,107.1	1,051.2	55.83	19.830		
7,700.0	7,506.0	7,834.3	7,737.0	30.7	44.4	84.03	45.1	2,598.2	1,088.5	1,032.9	55.67	19.552		
7,750.0	7,544.4	7,883.2	7,784.0	30.9	44.0	86.48	75.9	2,598.2	1,072.4	1,017.1	55.25	19.410		
7,800.0	7,580.0	7,932.1	7,834.0	31.1	43.6	88.16	110.1	2,598.2	1,058.4	1,003.8	54.60	19.385 SF		
7,850.0	7,612.6	7,981.0	7,882.0	31.3	43.1	89.26	147.3	2,598.2	1,046.7	992.9	53.78	19.461		
7,900.0	7,641.9	8,029.9	7,932.0	31.5	42.6	89.92	187.2	2,598.2	1,037.0	984.1	52.85	19.621		
7,950.0	7,667.7	8,078.8	7,979.0	31.7	42.0	90.27	229.7	2,598.2	1,029.1	977.3	51.84	19.851		
8,000.0	7,689.8	8,127.7	8,029.0	32.0	41.5	90.39	274.2	2,598.2	1,022.9	972.1	50.80	20.135		
8,050.0	7,708.0	8,176.6	8,079.0	32.2	40.9	90.37	320.6	2,598.2	1,018.2	968.4	49.76	20.463		
8,100.0	7,722.3	8,225.5	8,127.0	32.4	40.3	90.29	368.4	2,598.2	1,014.8	966.1	48.73	20.824		
8,150.0	7,732.4	8,274.4	8,176.0	32.7	39.7	90.18	417.3	2,598.2	1,012.6	964.8	47.73	21.214		
8,200.0	7,738.3	8,323.3	8,225.0	33.0	39.1	90.10	466.9	2,598.1	1,011.4	964.7	46.76	21.630 ES		
8,232.0	7,739.9	8,330.5	8,232.0	33.1	38.7	90.06	498.9	2,598.1	1,011.2	965.1	46.15	21.911 CC		
8,244.9	7,740.0	8,331.6	8,233.0	33.2	38.6	90.06	511.7	2,598.1	1,011.3	965.4	45.90	22.030		
8,300.0	7,740.0	8,331.6	8,233.0	33.5	38.0	90.06	566.9	2,598.1	1,011.5	965.9	45.68	22.146		
8,400.0	7,740.0	8,331.6	8,233.0	34.1	36.9	90.06	666.9	2,598.1	1,012.0	966.7	45.36	22.313		
8,500.0	7,740.0	8,331.6	8,233.0	34.8	35.8	90.06	766.9	2,598.1	1,012.5	967.4	45.15	22.426		
8,600.0	7,740.0	8,331.6	8,233.0	35.6	34.8	90.06	866.9	2,598.1	1,013.1	968.0	45.05	22.488		
8,700.0	7,740.0	8,331.6	8,233.0	36.5	33.9	90.06	966.9	2,598.1	1,013.6	968.5	45.05	22.501		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 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
8,800.0	7,740.0	8,762.5	7,770.0	37.4	33.0	90.06	1,066.9	2,598.0	1,014.1	968.9	45.14	22.465	
8,900.0	7,740.0	8,662.5	7,770.0	38.3	32.2	90.06	1,166.9	2,598.0	1,014.6	969.2	45.34	22.378	
9,000.0	7,740.0	8,562.5	7,770.0	39.4	31.5	90.06	1,266.9	2,598.0	1,015.1	969.4	45.64	22.239	
9,100.0	7,740.0	8,462.5	7,770.0	40.4	30.9	90.06	1,366.9	2,598.0	1,015.6	969.5	46.07	22.044	
9,200.0	7,740.0	8,362.5	7,770.0	41.6	30.3	90.06	1,466.9	2,598.0	1,016.1	969.5	46.63	21.792	
9,300.0	7,740.0	8,277.8	7,768.1	42.7	29.9	89.95	1,551.5	2,598.4	1,017.1	969.7	47.46	21.431	
9,400.0	7,740.0	8,200.0	7,758.3	43.9	29.6	89.40	1,628.6	2,600.4	1,020.3	971.9	48.46	21.054	
9,500.0	7,740.0	8,128.0	7,742.0	45.2	29.4	88.49	1,698.6	2,603.7	1,026.1	976.4	49.61	20.680	
9,600.0	7,740.0	8,058.7	7,719.9	46.4	29.1	87.27	1,764.2	2,608.3	1,034.8	983.9	50.85	20.349	
9,700.0	7,740.0	8,000.0	7,696.5	47.7	29.0	85.98	1,817.7	2,613.2	1,047.1	994.9	52.20	20.060	
9,800.0	7,740.0	7,935.4	7,665.7	49.1	28.8	84.33	1,874.2	2,619.6	1,063.5	1,009.9	53.56	19.858	
9,900.0	7,740.0	7,881.8	7,636.6	50.4	28.7	82.79	1,918.7	2,625.6	1,084.5	1,029.5	54.96	19.731	
10,000.0	7,740.0	7,833.5	7,607.6	51.8	28.6	81.28	1,956.8	2,631.6	1,110.3	1,054.0	56.38	19.693	
10,100.0	7,740.0	7,800.0	7,586.0	53.2	28.5	80.18	1,982.1	2,636.1	1,141.4	1,083.5	57.85	19.729	
10,200.0	7,740.0	7,750.0	7,551.7	54.6	28.4	78.46	2,017.7	2,643.2	1,177.4	1,118.2	59.21	19.886	
10,300.0	7,740.0	7,716.1	7,527.1	56.1	28.3	77.26	2,040.5	2,648.3	1,218.6	1,158.0	60.63	20.100	
10,400.0	7,740.0	7,684.7	7,503.4	57.6	28.3	76.12	2,060.5	2,653.2	1,264.6	1,202.6	62.03	20.387	
10,500.0	7,740.0	7,650.0	7,476.2	59.0	28.2	74.84	2,081.3	2,658.9	1,315.3	1,251.9	63.37	20.755	
10,600.0	7,740.0	7,631.0	7,460.9	60.5	28.1	74.13	2,092.2	2,662.0	1,370.2	1,305.4	64.83	21.136	
10,700.0	7,740.0	7,600.0	7,435.4	62.0	28.1	72.97	2,108.9	2,667.3	1,429.1	1,363.0	66.14	21.609	
10,800.0	7,740.0	7,600.0	7,435.4	63.5	28.1	72.97	2,108.9	2,667.3	1,491.6	1,423.9	67.76	22.013	
10,900.0	7,740.0	7,568.0	7,408.3	65.1	28.0	71.76	2,125.1	2,672.9	1,557.2	1,488.2	69.01	22.566	
11,000.0	7,740.0	7,550.0	7,392.8	66.6	28.0	71.09	2,133.6	2,676.2	1,625.9	1,555.5	70.39	23.097	
11,100.0	7,740.0	7,550.0	7,392.8	68.2	28.0	71.09	2,133.6	2,676.2	1,697.5	1,625.4	72.01	23.572	
11,200.0	7,740.0	7,520.2	7,366.7	69.7	27.9	69.96	2,146.8	2,681.6	1,771.0	1,697.8	73.20	24.194	
11,300.0	7,740.0	7,500.0	7,348.7	71.3	27.9	69.21	2,155.1	2,685.3	1,846.9	1,772.4	74.50	24.791	
11,400.0	7,740.0	7,500.0	7,348.7	72.9	27.9	69.21	2,155.1	2,685.3	1,924.7	1,848.6	76.10	25.292	
11,500.0	7,740.0	7,500.0	7,348.7	74.5	27.9	69.21	2,155.1	2,685.3	2,004.5	1,926.8	77.71	25.796	
11,600.0	7,740.0	7,472.4	7,323.7	76.1	27.8	68.18	2,165.7	2,690.5	2,085.4	2,006.6	78.83	26.453	
11,700.0	7,740.0	7,450.0	7,303.1	77.7	27.8	67.35	2,173.5	2,694.8	2,168.1	2,088.0	80.02	27.094	
11,800.0	7,740.0	7,450.0	7,303.1	79.3	27.8	67.35	2,173.5	2,694.8	2,251.7	2,170.1	81.61	27.592	
11,900.0	7,740.0	7,450.0	7,303.1	80.9	27.8	67.35	2,173.5	2,694.8	2,336.7	2,253.5	83.20	28.085	
12,000.0	7,740.0	7,450.0	7,303.1	82.5	27.8	67.35	2,173.5	2,694.8	2,422.8	2,338.0	84.79	28.573	
12,100.0	7,740.0	7,429.3	7,283.9	84.2	27.7	66.59	2,180.1	2,698.8	2,509.6	2,423.6	85.95	29.197	
12,200.0	7,740.0	7,422.2	7,277.3	85.8	27.7	66.34	2,182.2	2,700.1	2,597.3	2,510.0	87.39	29.723	
12,300.0	7,740.0	7,400.0	7,256.5	87.4	27.6	65.53	2,188.5	2,704.5	2,686.1	2,597.6	88.47	30.361	
12,400.0	7,740.0	7,400.0	7,256.5	89.1	27.6	65.53	2,188.5	2,704.5	2,775.2	2,685.2	90.05	30.820	
12,500.0	7,740.0	7,400.0	7,256.5	90.7	27.6	65.53	2,188.5	2,704.5	2,865.1	2,773.5	91.62	31.271	
12,600.0	7,740.0	7,400.0	7,256.5	92.4	27.6	65.53	2,188.5	2,704.5	2,955.6	2,862.4	93.20	31.713	
12,700.0	7,740.0	7,400.0	7,256.5	94.0	27.6	65.53	2,188.5	2,704.5	3,046.7	2,951.9	94.78	32.146	
12,800.0	7,740.0	7,400.0	7,256.5	95.7	27.6	65.53	2,188.5	2,704.5	3,138.3	3,042.0	96.35	32.571	
12,900.0	7,740.0	7,400.0	7,256.5	97.3	27.6	65.53	2,188.5	2,704.5	3,230.5	3,132.5	97.93	32.986	
13,000.0	7,740.0	7,378.4	7,236.0	99.0	27.6	64.76	2,194.0	2,708.7	3,322.7	3,223.8	98.95	33.581	
13,100.0	7,740.0	7,374.1	7,232.0	100.7	27.6	64.61	2,195.0	2,709.5	3,415.5	3,315.1	100.40	34.019	
13,200.0	7,740.0	7,350.0	7,208.9	102.3	27.5	63.76	2,200.2	2,714.3	3,509.1	3,407.8	101.30	34.640	
13,300.0	7,740.0	7,350.0	7,208.9	104.0	27.5	63.76	2,200.2	2,714.3	3,602.5	3,499.7	102.86	35.024	
13,400.0	7,740.0	7,350.0	7,208.9	105.7	27.5	63.76	2,200.2	2,714.3	3,696.3	3,591.9	104.42	35.399	
13,500.0	7,740.0	7,350.0	7,208.9	107.3	27.5	63.76	2,200.2	2,714.3	3,790.4	3,684.4	105.98	35.766	
13,600.0	7,740.0	7,350.0	7,208.9	109.0	27.5	63.76	2,200.2	2,714.3	3,884.8	3,777.3	107.54	36.124	
13,700.0	7,740.0	7,350.0	7,208.9	110.7	27.5	63.76	2,200.2	2,714.3	3,979.5	3,870.4	109.10	36.475	
13,800.0	7,740.0	7,350.0	7,208.9	112.4	27.5	63.76	2,200.2	2,714.3	4,074.4	3,963.7	110.66	36.819	
13,900.0	7,740.0	7,350.0	7,208.9	114.1	27.5	63.76	2,200.2	2,714.3	4,169.5	4,057.3	112.22	37.154	

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1B-7H-A168 - HZ - Plan #2		Offset Site Error:		0.0 ft	
Survey Program:													0-Geolink MWD		Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft) +E/-W (ft)		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor						
14,000.0	7,740.0	7,350.0	7,208.9	115.8	27.5	63.76	2,200.2	2,714.3	4,264.9	4,151.1	113.79	37.482						
14,100.0	7,740.0	7,350.0	7,208.9	117.5	27.5	63.76	2,200.2	2,714.3	4,360.5	4,245.2	115.35	37.803						
14,200.0	7,740.0	7,350.0	7,208.9	119.2	27.5	63.76	2,200.2	2,714.3	4,456.3	4,339.4	116.91	38.117						
14,300.0	7,740.0	7,350.0	7,208.9	120.8	27.5	63.76	2,200.2	2,714.3	4,552.3	4,433.8	118.47	38.424						
14,400.0	7,740.0	7,350.0	7,208.9	122.5	27.5	63.76	2,200.2	2,714.3	4,648.4	4,528.3	120.04	38.724						
14,500.0	7,740.0	7,350.0	7,208.9	124.2	27.5	63.76	2,200.2	2,714.3	4,744.7	4,623.1	121.60	39.018						
14,600.0	7,740.0	7,350.0	7,208.9	125.9	27.5	63.76	2,200.2	2,714.3	4,841.1	4,718.0	123.17	39.306						
14,700.0	7,740.0	7,326.2	7,186.0	127.6	27.4	62.94	2,204.6	2,719.1	4,937.3	4,813.4	123.89	39.853						
14,800.0	7,740.0	7,324.1	7,184.0	129.3	27.4	62.86	2,204.9	2,719.5	5,033.9	4,908.5	125.36	40.154						
14,844.9	7,740.0	7,323.2	7,183.1	130.1	27.4	62.83	2,205.1	2,719.7	5,077.3	4,951.3	126.03	40.287						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	28.0	28.0	0.0	0.0	65.17	1,870.5	4,042.6	4,454.3					
100.0	100.0	128.0	128.0	0.2	0.2	65.17	1,870.5	4,042.6	4,454.3	4,454.0	0.35	N/A		
200.0	200.0	228.0	228.0	0.3	0.4	65.17	1,870.5	4,042.6	4,454.3	4,453.6	0.70	6,348.626		
250.0	250.0	278.0	278.0	0.4	0.5	65.17	1,870.5	4,042.6	4,454.3	4,453.5	0.88	5,083.960		
300.0	300.0	364.3	364.3	0.5	0.6	-34.84	1,870.6	4,042.2	4,454.0	4,452.9	1.11	3,997.693		
400.0	400.0	593.3	593.2	0.7	1.0	-34.95	1,872.9	4,035.4	4,450.4	4,448.7	1.70	2,624.167		
500.0	499.9	820.6	819.9	0.9	1.5	-35.20	1,878.1	4,020.2	4,442.4	4,440.1	2.30	1,929.297		
600.0	599.8	1,045.0	1,042.9	1.1	2.0	-35.58	1,886.0	3,996.7	4,430.1	4,427.2	2.95	1,500.313		
700.0	699.5	1,265.3	1,260.7	1.3	2.7	-36.10	1,896.4	3,965.7	4,413.8	4,410.1	3.66	1,205.169		
800.0	799.2	1,389.9	1,383.5	1.5	3.1	-36.50	1,903.4	3,945.1	4,394.2	4,390.0	4.18	1,052.379		
900.0	898.6	1,486.0	1,478.0	1.7	3.4	-36.87	1,908.8	3,929.0	4,373.3	4,368.6	4.63	944.749		
1,000.0	997.9	1,581.6	1,572.1	2.0	3.7	-37.26	1,914.2	3,913.0	4,351.0	4,345.9	5.10	853.937		
1,100.0	1,096.9	1,676.6	1,665.7	2.3	4.1	-37.68	1,919.5	3,897.1	4,327.5	4,322.0	5.58	776.173		
1,200.0	1,195.7	1,771.1	1,758.7	2.6	4.4	-38.12	1,924.9	3,881.3	4,302.8	4,296.7	6.07	708.733		
1,300.0	1,294.1	1,865.0	1,851.1	2.9	4.7	-38.59	1,930.2	3,865.6	4,276.9	4,270.3	6.58	649.603		
1,400.0	1,392.3	1,958.3	1,942.9	3.3	5.0	-39.09	1,935.4	3,850.1	4,249.7	4,242.6	7.12	597.270		
1,500.0	1,490.1	2,051.0	2,034.1	3.7	5.4	-39.61	1,940.6	3,834.6	4,221.4	4,213.8	7.67	550.580		
1,600.0	1,587.5	2,143.0	2,124.7	4.1	5.7	-40.17	1,945.8	3,819.2	4,192.0	4,183.8	8.24	508.635		
1,700.0	1,684.6	2,234.2	2,214.5	4.5	6.0	-40.75	1,951.0	3,803.9	4,161.5	4,152.6	8.84	470.731		
1,750.0	1,732.9	2,279.6	2,259.2	4.8	6.2	-41.05	1,953.5	3,796.3	4,145.8	4,136.6	9.15	453.194		
1,800.0	1,781.2	2,324.9	2,303.8	5.0	6.3	-39.25	1,956.1	3,788.8	4,129.9	4,120.4	9.44	437.580		
1,900.0	1,877.8	2,415.6	2,393.0	5.5	6.7	-35.61	1,961.2	3,773.6	4,097.5	4,087.5	10.00	409.580		
1,981.2	1,956.2	2,489.2	2,465.5	5.9	6.9	-32.66	1,965.3	3,761.3	4,070.5	4,060.1	10.45	389.405		
2,000.0	1,974.4	2,506.3	2,482.3	6.0	7.0	-32.69	1,966.3	3,758.5	4,064.3	4,053.7	10.56	384.718		
2,100.0	2,071.3	2,597.5	2,572.1	6.4	7.3	-32.87	1,971.4	3,743.2	4,031.8	4,020.7	11.15	361.744		
2,181.5	2,150.7	2,672.4	2,645.8	6.7	7.6	-33.01	1,975.6	3,730.7	4,006.5	3,994.9	11.62	344.930		
2,200.0	2,168.6	2,689.4	2,662.6	6.8	7.6	-33.08	1,976.6	3,727.8	4,000.9	3,989.2	11.72	341.298		
2,300.0	2,266.1	2,781.5	2,753.2	7.3	7.9	-33.43	1,981.8	3,712.4	3,970.6	3,958.3	12.31	322.642		
2,400.0	2,363.5	2,873.7	2,843.9	7.7	8.3	-33.79	1,987.0	3,697.1	3,940.5	3,927.6	12.90	305.544		
2,500.0	2,461.0	2,965.8	2,934.6	8.1	8.6	-34.16	1,992.2	3,681.7	3,910.5	3,897.0	13.49	289.822		
2,600.0	2,558.4	3,057.9	3,025.3	8.6	8.9	-34.53	1,997.4	3,666.3	3,880.6	3,866.5	14.09	275.322		
2,700.0	2,655.8	3,150.1	3,116.0	9.0	9.2	-34.90	2,002.5	3,650.9	3,850.9	3,836.2	14.70	261.911		
2,800.0	2,753.3	3,242.2	3,206.7	9.4	9.6	-35.29	2,007.7	3,635.5	3,821.4	3,806.1	15.32	249.475		
2,900.0	2,850.7	3,334.3	3,297.4	9.9	9.9	-35.67	2,012.9	3,620.1	3,792.1	3,776.1	15.94	237.914		
3,000.0	2,948.2	3,426.4	3,388.0	10.3	10.2	-36.07	2,018.1	3,604.7	3,762.9	3,746.3	16.57	227.144		
3,100.0	3,045.6	3,518.6	3,478.7	10.7	10.6	-36.46	2,023.3	3,589.3	3,733.9	3,716.7	17.20	217.088		
3,200.0	3,143.0	3,610.7	3,569.4	11.2	10.9	-36.87	2,028.5	3,573.9	3,705.1	3,687.3	17.84	207.682		
3,300.0	3,240.5	3,702.8	3,660.1	11.6	11.2	-37.28	2,033.7	3,558.5	3,676.5	3,658.0	18.49	198.867		
3,400.0	3,337.9	3,795.0	3,750.8	12.0	11.5	-37.69	2,038.9	3,543.1	3,648.0	3,628.9	19.14	190.591		
3,500.0	3,435.3	3,887.1	3,841.5	12.5	11.9	-38.12	2,044.1	3,527.7	3,619.8	3,600.0	19.80	182.810		
3,600.0	3,532.8	3,979.2	3,932.1	12.9	12.2	-38.54	2,049.3	3,512.3	3,591.7	3,571.3	20.47	175.484		
3,700.0	3,630.2	4,071.3	4,022.8	13.3	12.5	-38.98	2,054.4	3,496.9	3,563.9	3,542.8	21.14	168.574		
3,800.0	3,727.7	4,163.5	4,113.5	13.8	12.9	-39.42	2,059.6	3,481.5	3,536.3	3,514.5	21.82	162.051		
3,900.0	3,825.1	4,255.6	4,204.2	14.2	13.2	-39.87	2,064.8	3,466.1	3,508.9	3,486.3	22.51	155.883		
4,000.0	3,922.5	4,347.7	4,294.9	14.6	13.5	-40.32	2,070.0	3,450.7	3,481.7	3,458.4	23.20	150.045		
4,100.0	4,020.0	4,439.9	4,385.6	15.1	13.8	-40.78	2,075.2	3,435.3	3,454.7	3,430.8	23.91	144.514		
4,200.0	4,117.4	4,532.0	4,476.3	15.5	14.2	-41.25	2,080.4	3,419.9	3,427.9	3,403.3	24.61	139.268		
4,300.0	4,214.9	4,624.1	4,566.9	16.0	14.5	-41.72	2,085.6	3,404.5	3,401.4	3,376.1	25.33	134.286		
4,400.0	4,312.3	4,716.2	4,657.6	16.4	14.8	-42.20	2,090.8	3,389.1	3,375.1	3,349.1	26.05	129.553		
4,500.0	4,409.7	4,808.4	4,748.3	16.8	15.2	-42.68	2,096.0	3,373.7	3,349.1	3,322.3	26.78	125.051		
4,600.0	4,507.2	4,900.5	4,839.0	17.3	15.5	-43.18	2,101.2	3,358.3	3,323.3	3,295.8	27.52	120.765		
4,700.0	4,604.6	4,992.6	4,929.7	17.7	15.8	-43.68	2,106.3	3,342.9	3,297.8	3,269.5	28.26	116.683		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
4,800.0	4,702.0	5,084.8	5,020.4	18.1	16.1	-44.19	2,111.5	3,327.5	3,272.6	3,243.5	29.01	112.791		
4,900.0	4,799.5	5,176.9	5,111.0	18.6	16.5	-44.70	2,116.7	3,312.1	3,247.6	3,217.8	29.77	109.079		
5,000.0	4,896.9	5,269.0	5,201.7	19.0	16.8	-45.22	2,121.9	3,296.7	3,222.9	3,192.3	30.54	105.536		
5,100.0	4,994.4	5,362.6	5,300.0	19.4	43.1	-1.13	-62.5	2,889.5	3,166.3	3,120.4	45.95	68.902		
5,200.0	5,091.8	5,460.0	5,400.0	19.9	43.1	-1.12	-62.8	2,889.5	3,075.7	3,029.6	46.14	66.663		
5,300.0	5,189.2	5,557.6	5,500.0	20.3	43.1	-1.10	-63.1	2,889.5	2,985.7	2,939.4	46.32	64.455		
5,400.0	5,286.7	5,655.2	5,600.0	20.8	43.1	-1.09	-63.4	2,889.5	2,896.3	2,849.8	46.51	62.278		
5,500.0	5,384.1	5,752.8	5,700.0	21.2	43.1	-1.08	-63.7	2,889.5	2,807.7	2,761.0	46.69	60.134		
5,600.0	5,481.6	5,850.4	5,800.0	21.6	43.1	-1.06	-64.0	2,889.5	2,719.8	2,673.0	46.88	58.023		
5,700.0	5,579.0	5,948.0	5,900.0	22.1	43.1	-1.05	-64.3	2,889.5	2,632.9	2,585.8	47.06	55.948		
5,800.0	5,676.4	6,045.6	6,000.0	22.5	43.1	-1.04	-64.6	2,889.5	2,546.8	2,499.6	47.24	53.908		
5,900.0	5,773.9	6,143.2	6,100.0	22.9	43.1	-1.02	-64.9	2,889.5	2,461.8	2,414.4	47.43	51.907		
6,000.0	5,871.3	6,240.8	6,200.0	23.4	43.1	-1.01	-65.2	2,889.5	2,378.0	2,330.4	47.61	49.946		
6,100.0	5,968.7	6,338.4	6,300.0	23.8	43.1	-1.00	-65.5	2,889.5	2,295.5	2,247.7	47.80	48.027		
6,200.0	6,066.2	6,436.0	6,400.0	24.3	43.1	-0.98	-65.8	2,889.5	2,214.5	2,166.5	47.98	46.153		
6,300.0	6,163.6	6,533.6	6,500.0	24.7	43.2	-0.97	-66.1	2,889.5	2,135.0	2,086.8	48.16	44.327		
6,400.0	6,261.1	6,631.2	6,600.0	25.1	43.2	-0.96	-66.4	2,889.5	2,057.3	2,009.0	48.35	42.551		
6,500.0	6,358.5	6,728.8	6,700.0	25.6	43.2	-0.94	-66.7	2,889.5	1,981.6	1,933.1	48.53	40.831		
6,600.0	6,455.9	6,826.4	6,800.0	26.0	43.2	-0.93	-67.0	2,889.5	1,908.2	1,859.5	48.72	39.169		
6,700.0	6,553.4	6,924.0	6,900.0	26.5	43.2	-0.92	-67.3	2,889.5	1,837.3	1,788.4	48.90	37.571		
6,800.0	6,650.8	7,021.6	7,000.0	26.9	43.2	-0.91	-67.7	2,889.5	1,769.2	1,720.1	49.09	36.043		
6,900.0	6,748.3	7,119.2	7,100.0	27.3	43.2	-0.89	-68.0	2,889.5	1,704.2	1,655.0	49.27	34.590		
7,000.0	6,845.7	7,216.8	7,200.0	27.8	43.2	-0.88	-68.3	2,889.5	1,642.8	1,593.3	49.45	33.218		
7,100.0	6,943.1	7,314.4	7,300.0	28.2	43.2	-0.87	-68.6	2,889.5	1,585.3	1,535.7	49.64	31.937		
7,200.0	7,040.6	7,412.0	7,400.0	28.6	43.2	-0.85	-68.9	2,889.5	1,532.2	1,482.3	49.82	30.752		
7,300.0	7,138.0	7,509.6	7,500.0	29.1	43.2	-0.84	-69.2	2,889.5	1,483.9	1,433.9	50.01	29.673		
7,341.8	7,178.7	7,550.4	7,540.0	29.3	43.2	-0.83	-69.3	2,889.5	1,465.2	1,415.2	50.08	29.256		
7,350.0	7,186.7	7,558.4	7,550.0	29.3	43.2	3.11	-69.3	2,889.5	1,461.7	1,411.5	50.21	29.111		
7,400.0	7,235.4	7,607.1	7,600.0	29.5	43.2	25.65	-66.5	2,889.5	1,441.0	1,390.1	50.93	28.292		
7,450.0	7,283.6	7,655.3	7,650.0	29.7	43.1	43.14	-59.4	2,889.6	1,421.9	1,370.4	51.53	27.593		
7,500.0	7,331.0	7,703.7	7,700.0	29.9	42.9	55.37	-48.1	2,889.6	1,404.7	1,352.7	51.97	27.029		
7,550.0	7,377.4	7,752.1	7,750.0	30.1	42.7	63.76	-32.5	2,889.7	1,389.3	1,337.1	52.22	26.605		
7,600.0	7,422.2	7,800.5	7,800.0	30.3	42.4	69.56	-12.8	2,889.8	1,375.9	1,323.6	52.27	26.322		
7,650.0	7,465.2	7,848.9	7,850.0	30.5	42.0	73.58	10.7	2,889.9	1,364.4	1,312.2	52.13	26.173		
7,700.0	7,506.0	7,897.3	7,900.0	30.7	41.7	76.35	38.1	2,890.0	1,354.7	1,302.9	51.81	26.148		
7,750.0	7,544.4	7,945.7	7,950.0	30.9	41.2	78.22	68.9	2,890.2	1,346.9	1,295.5	51.34	26.233		
7,800.0	7,580.0	8,000.0	8,000.0	31.1	40.7	79.41	103.1	2,890.4	1,340.6	1,289.8	50.75	26.414		
7,850.0	7,612.6	8,050.0	8,050.0	31.3	40.2	80.11	140.3	2,890.6	1,335.8	1,285.7	50.08	26.672		
7,900.0	7,641.9	8,100.0	8,100.0	31.5	39.6	80.44	180.3	2,890.8	1,332.2	1,282.8	49.37	26.986		
7,950.0	7,667.7	8,150.0	8,150.0	31.7	39.1	80.52	222.8	2,891.0	1,329.7	1,281.1	48.64	27.339		
8,000.0	7,689.8	8,200.0	8,200.0	32.0	38.4	80.44	267.4	2,891.2	1,328.0	1,280.1	47.93	27.708		
8,050.0	7,708.0	8,250.0	8,250.0	32.2	37.8	80.27	313.8	2,891.4	1,327.0	1,279.8	47.27	28.076 ES		
8,100.0	7,722.3	8,300.0	8,300.0	32.4	37.2	80.07	361.6	2,891.7	1,326.6	1,279.9	46.67	28.426		
8,137.9	7,730.3	8,349.9	8,350.0	32.6	36.7	79.92	398.6	2,891.9	1,326.5	1,280.2	46.27	28.671 CC		
8,150.0	7,732.4	8,360.0	8,360.0	32.7	36.5	79.88	410.5	2,891.9	1,326.5	1,280.4	46.14	28.748		
8,200.0	7,738.3	8,410.0	8,410.0	33.0	35.9	79.74	460.1	2,892.2	1,326.7	1,281.0	45.69	29.039		
8,244.9	7,740.0	8,460.0	8,460.0	33.2	35.3	79.67	505.0	2,892.4	1,327.1	1,281.7	45.33	29.276		
8,300.0	7,740.0	8,510.0	8,510.0	33.5	34.6	79.67	560.1	2,892.7	1,327.6	1,282.5	45.09	29.447		
8,400.0	7,740.0	8,610.0	8,610.0	34.1	33.4	79.68	660.1	2,893.2	1,328.6	1,283.9	44.74	29.699		
8,500.0	7,740.0	8,710.0	8,710.0	34.8	32.2	79.69	760.1	2,893.7	1,329.7	1,285.2	44.50	29.882		
8,600.0	7,740.0	8,810.0	8,810.0	35.6	31.1	79.70	860.1	2,894.2	1,330.7	1,286.3	44.36	29.998		
8,700.0	7,740.0	8,910.0	8,910.0	36.5	30.0	79.70	960.1	2,894.7	1,331.7	1,287.4	44.32	30.050		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,740.0	8,480.1	7,530.0	37.4	29.0	79.71	1,060.1	2,895.2	1,332.7	1,288.3	44.37	30.037		
8,900.0	7,740.0	8,380.1	7,530.0	38.3	28.1	79.72	1,160.1	2,895.7	1,333.7	1,289.2	44.52	29.958		
9,000.0	7,740.0	8,280.1	7,530.0	39.4	27.2	79.73	1,260.1	2,896.2	1,334.7	1,290.0	44.78	29.809		
9,100.0	7,740.0	8,180.1	7,530.0	40.4	26.5	79.74	1,360.0	2,896.8	1,335.7	1,290.6	45.15	29.585		
9,200.0	7,740.0	8,080.1	7,530.0	41.6	25.8	79.74	1,460.0	2,897.3	1,336.8	1,291.1	45.65	29.284		
9,300.0	7,740.0	8,000.0	7,528.8	42.7	25.4	79.70	1,540.1	2,897.9	1,338.3	1,291.9	46.46	28.807		
9,400.0	7,740.0	7,950.0	7,524.2	43.9	25.1	79.52	1,589.9	2,898.9	1,342.6	1,295.0	47.60	28.208		
9,500.0	7,740.0	7,884.5	7,513.0	45.2	24.8	79.07	1,654.3	2,901.1	1,349.9	1,301.3	48.66	27.742		
9,600.0	7,740.0	7,827.5	7,498.6	46.4	24.6	78.49	1,709.4	2,903.9	1,360.4	1,310.5	49.83	27.301		
9,700.0	7,740.0	7,773.2	7,480.8	47.7	24.4	77.79	1,760.6	2,907.2	1,374.1	1,323.1	51.05	26.917		
9,800.0	7,740.0	7,721.9	7,460.6	49.1	24.2	76.99	1,807.6	2,910.8	1,391.4	1,339.1	52.32	26.594		
9,900.0	7,740.0	7,674.0	7,438.8	50.4	24.1	76.15	1,850.1	2,914.8	1,412.4	1,358.8	53.63	26.337		
10,000.0	7,740.0	7,629.4	7,416.0	51.8	24.0	75.27	1,888.2	2,918.8	1,437.3	1,382.3	54.96	26.149		
10,100.0	7,740.0	7,600.0	7,399.7	53.2	23.9	74.66	1,912.5	2,921.7	1,466.2	1,409.8	56.39	26.002		
10,200.0	7,740.0	7,550.0	7,369.8	54.6	23.8	73.54	1,952.2	2,927.0	1,498.9	1,441.2	57.68	25.986 SF		
10,300.0	7,740.0	7,515.2	7,347.4	56.1	23.8	72.72	1,978.5	2,930.9	1,535.7	1,476.6	59.06	26.002		
10,400.0	7,740.0	7,483.1	7,325.7	57.6	23.7	71.93	2,001.8	2,934.8	1,576.4	1,516.0	60.44	26.082		
10,500.0	7,740.0	7,450.0	7,302.2	59.0	23.7	71.09	2,024.8	2,938.9	1,620.9	1,559.1	61.79	26.232		
10,600.0	7,740.0	7,426.5	7,284.9	60.5	23.6	70.48	2,040.4	2,941.9	1,669.1	1,605.9	63.20	26.408		
10,700.0	7,740.0	7,400.0	7,264.8	62.0	23.6	69.79	2,057.3	2,945.4	1,720.7	1,656.2	64.57	26.649		
10,800.0	7,740.0	7,378.7	7,248.2	63.5	23.6	69.22	2,070.3	2,948.3	1,775.7	1,709.7	65.97	26.916		
10,900.0	7,740.0	7,350.0	7,225.2	65.1	23.5	68.44	2,087.1	2,952.3	1,833.7	1,766.5	67.28	27.256		
11,000.0	7,740.0	7,350.0	7,225.2	66.6	23.5	68.44	2,087.1	2,952.3	1,894.7	1,825.9	68.86	27.514		
11,100.0	7,740.0	7,320.2	7,200.7	68.2	23.5	67.62	2,103.5	2,956.5	1,958.2	1,888.1	70.13	27.924		
11,200.0	7,740.0	7,300.0	7,183.7	69.7	23.5	67.07	2,114.0	2,959.5	2,024.3	1,952.8	71.47	28.323		
11,300.0	7,740.0	7,300.0	7,183.7	71.3	23.5	67.07	2,114.0	2,959.5	2,092.8	2,019.8	73.05	28.649		
11,400.0	7,740.0	7,273.7	7,161.2	72.9	23.4	66.34	2,127.0	2,963.4	2,163.2	2,088.9	74.29	29.117		
11,500.0	7,740.0	7,250.0	7,140.5	74.5	23.4	65.68	2,137.9	2,967.0	2,235.7	2,160.2	75.55	29.594		
11,600.0	7,740.0	7,250.0	7,140.5	76.1	23.4	65.68	2,137.9	2,967.0	2,309.9	2,232.8	77.11	29.955		
11,700.0	7,740.0	7,250.0	7,140.5	77.7	23.4	65.68	2,137.9	2,967.0	2,386.0	2,307.3	78.68	30.325		
11,800.0	7,740.0	7,225.2	7,118.5	79.3	23.4	64.99	2,148.6	2,970.8	2,463.3	2,383.4	79.88	30.839		
11,900.0	7,740.0	7,200.0	7,095.7	80.9	23.3	64.29	2,158.7	2,974.7	2,542.3	2,461.3	81.04	31.371		
12,000.0	7,740.0	7,200.0	7,095.7	82.5	23.3	64.29	2,158.7	2,974.7	2,622.3	2,539.7	82.59	31.749		
12,100.0	7,740.0	7,200.0	7,095.7	84.2	23.3	64.29	2,158.7	2,974.7	2,703.6	2,619.5	84.15	32.129		
12,200.0	7,740.0	7,200.0	7,095.7	85.8	23.3	64.29	2,158.7	2,974.7	2,786.1	2,700.4	85.71	32.508		
12,300.0	7,740.0	7,179.8	7,077.2	87.4	23.3	63.73	2,166.2	2,977.9	2,869.4	2,782.5	86.90	33.019		
12,400.0	7,740.0	7,172.3	7,070.3	89.1	23.3	63.52	2,168.9	2,979.1	2,953.8	2,865.5	88.32	33.446		
12,500.0	7,740.0	7,150.0	7,049.6	90.7	23.2	62.91	2,176.3	2,982.6	3,039.2	2,949.8	89.44	33.980		
12,600.0	7,740.0	7,150.0	7,049.6	92.4	23.2	62.91	2,176.3	2,982.6	3,125.1	3,034.2	90.98	34.349		
12,700.0	7,740.0	7,150.0	7,049.6	94.0	23.2	62.91	2,176.3	2,982.6	3,211.9	3,119.3	92.53	34.713		
12,800.0	7,740.0	7,150.0	7,049.6	95.7	23.2	62.91	2,176.3	2,982.6	3,299.3	3,205.3	94.07	35.073		
12,900.0	7,740.0	7,150.0	7,049.6	97.3	23.2	62.91	2,176.3	2,982.6	3,387.5	3,291.9	95.61	35.429		
13,000.0	7,740.0	7,150.0	7,049.6	99.0	23.2	62.91	2,176.3	2,982.6	3,476.3	3,379.1	97.16	35.779		
13,100.0	7,740.0	7,129.1	7,030.0	100.7	23.2	62.34	2,182.7	2,986.0	3,565.4	3,467.1	98.25	36.289		
13,200.0	7,740.0	7,124.1	7,025.2	102.3	23.2	62.20	2,184.1	2,986.8	3,655.1	3,555.4	99.67	36.671		
13,300.0	7,740.0	7,100.0	7,002.4	104.0	23.1	61.54	2,190.6	2,990.7	3,745.7	3,645.0	100.66	37.212		
13,400.0	7,740.0	7,100.0	7,002.4	105.7	23.1	61.54	2,190.6	2,990.7	3,836.2	3,734.0	102.18	37.542		
13,500.0	7,740.0	7,100.0	7,002.4	107.3	23.1	61.54	2,190.6	2,990.7	3,927.3	3,823.5	103.71	37.866		
13,600.0	7,740.0	7,100.0	7,002.4	109.0	23.1	61.54	2,190.6	2,990.7	4,018.7	3,913.5	105.24	38.185		
13,700.0	7,740.0	7,100.0	7,002.4	110.7	23.1	61.54	2,190.6	2,990.7	4,110.6	4,003.8	106.77	38.498		
13,800.0	7,740.0	7,100.0	7,002.4	112.4	23.1	61.54	2,190.6	2,990.7	4,202.8	4,094.5	108.30	38.806		
13,900.0	7,740.0	7,100.0	7,002.4	114.1	23.1	61.54	2,190.6	2,990.7	4,295.4	4,185.5	109.83	39.108		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Morgan Hills 1C-7H-A168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,000.0	7,740.0	7,100.0	7,002.4	115.8	23.1	61.54	2,190.6	2,990.7	4,388.3	4,276.9	111.37	39.404		
14,100.0	7,740.0	7,100.0	7,002.4	117.5	23.1	61.54	2,190.6	2,990.7	4,481.5	4,368.6	112.90	39.695		
14,200.0	7,740.0	7,100.0	7,002.4	119.2	23.1	61.54	2,190.6	2,990.7	4,575.0	4,460.5	114.43	39.980		
14,300.0	7,740.0	7,100.0	7,002.4	120.8	23.1	61.54	2,190.6	2,990.7	4,668.7	4,552.8	115.96	40.261		
14,400.0	7,740.0	7,078.1	6,981.3	122.5	23.1	60.95	2,195.8	2,994.3	4,762.4	4,645.5	116.88	40.745		
14,500.0	7,740.0	7,075.1	6,978.5	124.2	23.1	60.87	2,196.4	2,994.8	4,856.5	4,738.2	118.32	41.045		
14,600.0	7,740.0	7,072.3	6,975.8	125.9	23.1	60.79	2,197.0	2,995.3	4,950.9	4,831.1	119.76	41.338		
14,700.0	7,740.0	7,050.0	6,954.3	127.6	23.0	60.20	2,201.5	2,999.0	5,045.7	4,925.1	120.63	41.828		
14,800.0	7,740.0	7,050.0	6,954.3	129.3	23.0	60.20	2,201.5	2,999.0	5,140.4	5,018.3	122.15	42.084		
14,844.9	7,740.0	7,050.0	6,954.3	130.1	23.0	60.20	2,201.5	2,999.0	5,183.0	5,060.2	122.83	42.198		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error: 0.0 ft	
Survey Program: 8325-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	88.0	88.0	0.0	0.2	-49.31	131.9	-153.4	202.3				
100.0	100.0	188.0	188.0	0.2	0.3	-49.31	131.9	-153.4	202.3	201.8	0.48	421.252	
200.0	200.0	288.0	288.0	0.3	0.5	-49.31	131.9	-153.4	202.3	201.4	0.83	243.925	
250.0	250.0	338.0	338.0	0.4	0.6	-49.31	131.9	-153.4	202.3	201.3	1.00	201.512 CC, ES	
300.0	300.0	388.0	388.0	0.5	0.7	-149.34	131.9	-153.4	202.5	201.3	1.18	171.824	
400.0	400.0	488.0	488.0	0.7	0.9	-149.58	131.9	-153.4	204.0	202.4	1.53	133.513	
500.0	499.9	587.9	587.9	0.9	1.0	-150.06	131.9	-153.4	207.0	205.1	1.88	110.211	
600.0	599.8	687.8	687.8	1.1	1.2	-150.74	131.9	-153.4	211.5	209.3	2.23	94.858	
700.0	699.5	787.5	787.5	1.3	1.4	-151.61	131.9	-153.4	217.6	215.1	2.58	84.235	
800.0	799.2	887.2	887.2	1.5	1.5	-152.63	131.9	-153.4	225.4	222.4	2.94	76.666	
900.0	898.6	986.6	986.6	1.7	1.7	-153.76	131.9	-153.4	234.7	231.4	3.30	71.194	
1,000.0	997.9	1,085.9	1,085.9	2.0	1.9	-154.97	131.9	-153.4	245.7	242.0	3.65	67.231	
1,100.0	1,096.9	1,184.9	1,184.9	2.3	2.1	-156.22	131.9	-153.4	258.4	254.4	4.01	64.394	
1,200.0	1,195.7	1,283.7	1,283.7	2.6	2.2	-157.49	131.9	-153.4	272.8	268.4	4.37	62.424	
1,300.0	1,294.1	1,382.1	1,382.1	2.9	2.4	-158.74	131.9	-153.4	289.0	284.2	4.73	61.137	
1,400.0	1,392.3	1,480.3	1,480.3	3.3	2.6	-159.97	131.9	-153.4	306.9	301.8	5.08	60.399	
1,500.0	1,490.1	1,578.1	1,578.1	3.7	2.8	-161.15	131.9	-153.4	326.5	321.1	5.43	60.110	
1,600.0	1,587.5	1,675.5	1,675.5	4.1	2.9	-162.28	131.9	-153.4	347.9	342.1	5.78	60.192	
1,700.0	1,684.6	1,772.6	1,772.6	4.5	3.1	-163.35	131.9	-153.4	371.1	365.0	6.13	60.586	
1,750.0	1,732.9	1,820.9	1,820.9	4.8	3.2	-163.85	131.9	-153.4	383.3	377.0	6.30	60.888	
1,800.0	1,781.2	1,869.2	1,869.2	5.0	3.3	-162.42	131.9	-153.4	395.7	389.3	6.48	61.090	
1,900.0	1,877.8	1,965.8	1,965.8	5.5	3.4	-159.61	131.9	-153.4	420.2	413.4	6.85	61.379	
1,981.2	1,956.2	2,044.2	2,044.2	5.9	3.6	-157.41	131.9	-153.4	439.8	432.7	7.15	61.547	
2,000.0	1,974.4	2,062.4	2,062.4	6.0	3.6	-157.67	131.9	-153.4	444.3	437.1	7.22	61.585	
2,100.0	2,071.3	2,159.3	2,159.3	6.4	3.8	-158.90	131.9	-153.4	467.4	459.8	7.58	61.699	
2,181.5	2,150.7	2,238.7	2,238.7	6.7	3.9	-159.77	131.9	-153.4	485.1	477.3	7.87	61.663	
2,200.0	2,168.6	2,256.6	2,256.6	6.8	3.9	-159.93	131.9	-153.4	489.1	481.1	7.93	61.654	
2,300.0	2,266.1	2,354.1	2,354.1	7.3	4.1	-160.80	131.9	-153.4	510.3	502.0	8.28	61.622	
2,400.0	2,363.5	2,451.5	2,451.5	7.7	4.3	-161.59	131.9	-153.4	531.6	523.0	8.63	61.613	
2,500.0	2,461.0	2,549.0	2,549.0	8.1	4.4	-162.33	131.9	-153.4	553.1	544.1	8.98	61.624	
2,600.0	2,558.4	2,646.4	2,646.4	8.6	4.6	-163.01	131.9	-153.4	574.6	565.3	9.32	61.648	
2,700.0	2,655.8	2,743.8	2,743.8	9.0	4.8	-163.64	131.9	-153.4	596.2	586.5	9.67	61.683	
2,800.0	2,753.3	2,841.3	2,841.3	9.4	5.0	-164.22	131.9	-153.4	617.8	607.8	10.01	61.727	
2,900.0	2,850.7	2,938.7	2,938.7	9.9	5.1	-164.77	131.9	-153.4	639.5	629.2	10.35	61.776	
3,000.0	2,948.2	3,036.2	3,036.2	10.3	5.3	-165.28	131.9	-153.4	661.3	650.6	10.70	61.831	
3,100.0	3,045.6	3,133.6	3,133.6	10.7	5.5	-165.76	131.9	-153.4	683.1	672.1	11.04	61.888	
3,200.0	3,143.0	3,231.0	3,231.0	11.2	5.6	-166.21	131.9	-153.4	705.0	693.6	11.38	61.948	
3,300.0	3,240.5	3,328.5	3,328.5	11.6	5.8	-166.63	131.9	-153.4	726.9	715.1	11.72	62.010	
3,400.0	3,337.9	3,425.9	3,425.9	12.0	6.0	-167.03	131.9	-153.4	748.8	736.7	12.06	62.072	
3,500.0	3,435.3	3,523.3	3,523.3	12.5	6.1	-167.40	131.9	-153.4	770.7	758.3	12.40	62.134	
3,600.0	3,532.8	3,620.8	3,620.8	12.9	6.3	-167.76	131.9	-153.4	792.7	780.0	12.75	62.197	
3,700.0	3,630.2	3,718.2	3,718.2	13.3	6.5	-168.09	131.9	-153.4	814.7	801.7	13.09	62.258	
3,800.0	3,727.7	3,815.7	3,815.7	13.8	6.7	-168.41	131.9	-153.4	836.8	823.4	13.43	62.320	
3,900.0	3,825.1	3,913.1	3,913.1	14.2	6.8	-168.71	131.9	-153.4	858.9	845.1	13.77	62.380	
4,000.0	3,922.5	4,010.5	4,010.5	14.6	7.0	-169.00	131.9	-153.4	880.9	866.8	14.11	62.439	
4,100.0	4,020.0	4,108.0	4,108.0	15.1	7.2	-169.27	131.9	-153.4	903.0	888.6	14.45	62.497	
4,200.0	4,117.4	4,205.4	4,205.4	15.5	7.3	-169.53	131.9	-153.4	925.2	910.4	14.79	62.554	
4,300.0	4,214.9	4,302.9	4,302.9	16.0	7.5	-169.77	131.9	-153.4	947.3	932.2	15.13	62.610	
4,400.0	4,312.3	4,400.3	4,400.3	16.4	7.7	-170.01	131.9	-153.4	969.5	954.0	15.47	62.664	
4,500.0	4,409.7	4,497.7	4,497.7	16.8	7.9	-170.24	131.9	-153.4	991.6	975.8	15.81	62.717	
4,600.0	4,507.2	4,595.2	4,595.2	17.3	8.0	-170.45	131.9	-153.4	1,013.8	997.7	16.15	62.769	
4,700.0	4,604.6	4,692.6	4,692.6	17.7	8.2	-170.66	131.9	-153.4	1,036.0	1,019.5	16.49	62.819	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
4,800.0	4,702.0	4,790.0	4,790.0	18.1	8.4	-170.85	131.9	-153.4	1,058.2	1,041.4	16.83	62.868	
4,900.0	4,799.5	4,887.5	4,887.5	18.6	8.5	-171.04	131.9	-153.4	1,080.5	1,063.3	17.17	62.916	
5,000.0	4,896.9	4,984.9	4,984.9	19.0	8.7	-171.23	131.9	-153.4	1,102.7	1,085.2	17.51	62.962	
5,100.0	4,994.4	5,082.4	5,082.4	19.4	8.9	-171.40	131.9	-153.4	1,124.9	1,107.1	17.85	63.007	
5,200.0	5,091.8	5,179.8	5,179.8	19.9	9.0	-171.57	131.9	-153.4	1,147.2	1,129.0	18.19	63.051	
5,300.0	5,189.2	5,277.2	5,277.2	20.3	9.2	-171.73	131.9	-153.4	1,169.4	1,150.9	18.53	63.094	
5,400.0	5,286.7	5,374.7	5,374.7	20.8	9.4	-171.89	131.9	-153.4	1,191.7	1,172.8	18.88	63.136	
5,500.0	5,384.1	5,472.1	5,472.1	21.2	9.6	-172.04	131.9	-153.4	1,214.0	1,194.8	19.22	63.176	
5,600.0	5,481.6	5,569.6	5,569.6	21.6	9.7	-172.18	131.9	-153.4	1,236.3	1,216.7	19.56	63.216	
5,700.0	5,579.0	5,667.0	5,667.0	22.1	9.9	-172.32	131.9	-153.4	1,258.6	1,238.7	19.90	63.254	
5,800.0	5,676.4	5,764.4	5,764.4	22.5	10.1	-172.45	131.9	-153.4	1,280.9	1,260.6	20.24	63.291	
5,900.0	5,773.9	5,861.9	5,861.9	22.9	10.2	-172.58	131.9	-153.4	1,303.2	1,282.6	20.58	63.327	
6,000.0	5,871.3	5,959.3	5,959.3	23.4	10.4	-172.71	131.9	-153.4	1,325.5	1,304.6	20.92	63.363	
6,100.0	5,968.7	6,056.7	6,056.7	23.8	10.6	-172.83	131.9	-153.4	1,347.8	1,326.6	21.26	63.397	
6,200.0	6,066.2	6,154.2	6,154.2	24.3	10.7	-172.95	131.9	-153.4	1,370.1	1,348.5	21.60	63.430	
6,300.0	6,163.6	6,251.6	6,251.6	24.7	10.9	-173.06	131.9	-153.4	1,392.5	1,370.5	21.94	63.463	
6,400.0	6,261.1	6,349.1	6,349.1	25.1	11.1	-173.17	131.9	-153.4	1,414.8	1,392.5	22.28	63.495	
6,500.0	6,358.5	6,446.5	6,446.5	25.6	11.3	-173.28	131.9	-153.4	1,437.1	1,414.5	22.62	63.526	
6,600.0	6,455.9	6,543.9	6,543.9	26.0	11.4	-173.38	131.9	-153.4	1,459.5	1,436.5	22.96	63.556	
6,700.0	6,553.4	6,641.4	6,641.4	26.5	11.6	-173.48	131.9	-153.4	1,481.8	1,458.5	23.30	63.585	
6,800.0	6,650.8	6,738.8	6,738.8	26.9	11.8	-173.58	131.9	-153.4	1,504.2	1,480.5	23.65	63.613	
6,900.0	6,748.3	6,836.3	6,836.3	27.3	11.9	-173.67	131.9	-153.4	1,526.5	1,502.6	23.99	63.641	
7,000.0	6,845.7	6,933.7	6,933.7	27.8	12.1	-173.76	131.9	-153.4	1,548.9	1,524.6	24.33	63.668	
7,100.0	6,943.1	7,031.1	7,031.1	28.2	12.3	-173.85	131.9	-153.4	1,571.3	1,546.6	24.67	63.695	
7,200.0	7,040.6	7,128.6	7,128.6	28.6	12.4	-173.94	131.9	-153.4	1,593.6	1,568.6	25.01	63.721	
7,300.0	7,138.0	7,226.0	7,226.0	29.1	12.6	-174.02	131.9	-153.4	1,616.0	1,590.7	25.35	63.746	
7,341.8	7,178.7	7,266.7	7,266.7	29.3	12.7	-174.06	131.9	-153.4	1,625.4	1,599.9	25.49	63.756	
7,350.0	7,186.7	7,274.7	7,274.7	29.3	12.7	-170.33	131.9	-153.4	1,627.2	1,601.7	25.54	63.712	
7,400.0	7,235.4	7,323.4	7,323.4	29.5	12.8	-148.99	131.9	-153.4	1,638.0	1,612.2	25.83	63.403	
7,450.0	7,283.6	7,371.6	7,371.6	29.7	12.9	-132.52	131.9	-153.4	1,648.2	1,622.1	26.14	63.065	
7,500.0	7,331.0	7,419.0	7,419.0	29.9	12.9	-121.10	131.9	-153.4	1,657.8	1,631.4	26.43	62.722	
7,550.0	7,377.4	7,465.4	7,465.4	30.1	13.0	-113.32	131.9	-153.4	1,666.8	1,640.1	26.72	62.389	
7,600.0	7,422.2	7,510.2	7,510.2	30.3	13.1	-107.93	131.9	-153.4	1,675.3	1,648.3	26.99	62.071	
7,650.0	7,465.2	7,553.2	7,553.2	30.5	13.2	-104.13	131.9	-153.4	1,683.3	1,656.1	27.25	61.768	
7,700.0	7,506.0	7,594.0	7,594.0	30.7	13.3	-101.38	131.9	-153.4	1,691.0	1,663.4	27.51	61.473	
7,750.0	7,544.4	7,632.4	7,632.4	30.9	13.3	-99.36	131.9	-153.4	1,698.3	1,670.6	27.76	61.177	
7,800.0	7,580.0	7,668.0	7,668.0	31.1	13.4	-97.85	131.9	-153.4	1,705.6	1,677.6	28.02	60.872	
7,850.0	7,612.6	7,700.6	7,700.6	31.3	13.4	-96.68	131.9	-153.4	1,712.8	1,684.5	28.29	60.552	
7,900.0	7,641.9	7,729.9	7,729.9	31.5	13.5	-95.74	131.9	-153.4	1,720.2	1,691.6	28.57	60.212	
7,950.0	7,667.7	7,755.7	7,755.7	31.7	13.5	-94.92	131.9	-153.4	1,727.8	1,698.9	28.87	59.853	
8,000.0	7,689.8	7,777.8	7,777.8	32.0	13.6	-94.17	131.9	-153.4	1,735.7	1,706.6	29.18	59.482	
8,050.0	7,708.0	7,796.0	7,796.0	32.2	13.6	-93.43	131.9	-153.4	1,744.1	1,714.6	29.50	59.113	
8,100.0	7,722.3	7,810.3	7,810.3	32.4	13.6	-92.66	131.9	-153.4	1,752.9	1,723.1	29.83	58.764	
8,150.0	7,732.4	7,820.4	7,820.4	32.7	13.6	-91.82	131.9	-153.4	1,762.2	1,732.1	30.14	58.461	
8,200.0	7,738.3	7,826.3	7,826.3	33.0	13.7	-90.90	131.9	-153.4	1,772.0	1,741.6	30.43	58.236	
8,244.9	7,740.0	7,828.0	7,828.0	33.2	13.7	-90.00	131.9	-153.4	1,781.2	1,750.6	30.65	58.123	
8,300.0	7,740.0	7,828.0	7,828.0	33.5	13.7	-90.00	131.9	-153.4	1,793.5	1,762.2	31.26	57.365	
8,400.0	7,740.0	7,828.0	7,828.0	34.1	13.7	-90.00	131.9	-153.4	1,819.8	1,787.4	32.46	56.059	
8,500.0	7,740.0	7,828.0	7,828.0	34.8	13.7	-90.00	131.9	-153.4	1,851.2	1,817.4	33.74	54.862	
8,600.0	7,740.0	7,828.0	7,828.0	35.6	13.7	-90.00	131.9	-153.4	1,887.3	1,852.2	35.09	53.785	
8,700.0	7,740.0	7,828.0	7,828.0	36.5	13.7	-90.00	131.9	-153.4	1,928.0	1,891.5	36.49	52.832	
8,800.0	7,740.0	7,828.0	7,828.0	37.4	13.7	-90.00	131.9	-153.4	1,972.9	1,935.0	37.94	51.999	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error:	0.0 ft
Survey Program: 8325-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
8,900.0	7,740.0	7,828.0	7,828.0	38.3	13.7	-90.00	131.9	-153.4	2,021.8	1,982.3	39.43	51.277	
9,000.0	7,740.0	7,828.0	7,828.0	39.4	13.7	-90.00	131.9	-153.4	2,074.3	2,033.3	40.95	50.659	
9,100.0	7,740.0	7,828.0	7,828.0	40.4	13.7	-90.00	131.9	-153.4	2,130.2	2,087.7	42.49	50.133	
9,200.0	7,740.0	7,828.0	7,828.0	41.6	13.7	-90.00	131.9	-153.4	2,189.3	2,145.2	44.06	49.690	
9,300.0	7,740.0	7,828.0	7,828.0	42.7	13.7	-90.00	131.9	-153.4	2,251.2	2,205.6	45.65	49.320	
9,400.0	7,740.0	7,828.0	7,828.0	43.9	13.7	-90.00	131.9	-153.4	2,315.9	2,268.6	47.25	49.014	
9,500.0	7,740.0	7,828.0	7,828.0	45.2	13.7	-90.00	131.9	-153.4	2,382.9	2,334.1	48.87	48.763	
9,600.0	7,740.0	7,828.0	7,828.0	46.4	13.7	-90.00	131.9	-153.4	2,452.2	2,401.7	50.50	48.561	
9,700.0	7,740.0	7,828.0	7,828.0	47.7	13.7	-90.00	131.9	-153.4	2,523.6	2,471.5	52.14	48.402	
9,800.0	7,740.0	7,828.0	7,828.0	49.1	13.7	-90.00	131.9	-153.4	2,596.9	2,543.1	53.79	48.278	
9,900.0	7,740.0	7,828.0	7,828.0	50.4	13.7	-90.00	131.9	-153.4	2,671.9	2,616.4	55.45	48.186	
10,000.0	7,740.0	7,828.0	7,828.0	51.8	13.7	-90.00	131.9	-153.4	2,748.5	2,691.4	57.12	48.121	
10,100.0	7,740.0	7,828.0	7,828.0	53.2	13.7	-90.00	131.9	-153.4	2,826.5	2,767.7	58.79	48.079	
10,200.0	7,740.0	7,828.0	7,828.0	54.6	13.7	-90.00	131.9	-153.4	2,905.9	2,845.5	60.47	48.057	
10,300.0	7,740.0	7,828.0	7,828.0	56.1	13.7	-90.00	131.9	-153.4	2,986.6	2,924.4	62.15	48.052 SF	
10,400.0	7,740.0	7,828.0	7,828.0	57.6	13.7	-90.00	131.9	-153.4	3,068.3	3,004.5	63.84	48.061	
10,500.0	7,740.0	7,828.0	7,828.0	59.0	13.7	-90.00	131.9	-153.4	3,151.2	3,085.6	65.54	48.083	
10,600.0	7,740.0	7,828.0	7,828.0	60.5	13.7	-90.00	131.9	-153.4	3,235.0	3,167.7	67.23	48.115	
10,700.0	7,740.0	7,828.0	7,828.0	62.0	13.7	-90.00	131.9	-153.4	3,319.7	3,250.7	68.93	48.157	
10,800.0	7,740.0	7,828.0	7,828.0	63.5	13.7	-90.00	131.9	-153.4	3,405.2	3,334.5	70.64	48.205	
10,900.0	7,740.0	7,828.0	7,828.0	65.1	13.7	-90.00	131.9	-153.4	3,491.5	3,419.1	72.35	48.261	
11,000.0	7,740.0	7,828.0	7,828.0	66.6	13.7	-90.00	131.9	-153.4	3,578.5	3,504.4	74.06	48.321	
11,100.0	7,740.0	7,828.0	7,828.0	68.2	13.7	-90.00	131.9	-153.4	3,666.2	3,590.4	75.77	48.386	
11,200.0	7,740.0	7,828.0	7,828.0	69.7	13.7	-90.00	131.9	-153.4	3,754.4	3,677.0	77.48	48.455	
11,300.0	7,740.0	7,828.0	7,828.0	71.3	13.7	-90.00	131.9	-153.4	3,843.3	3,764.1	79.20	48.527	
11,400.0	7,740.0	7,828.0	7,828.0	72.9	13.7	-90.00	131.9	-153.4	3,932.7	3,851.8	80.92	48.601	
11,500.0	7,740.0	7,828.0	7,828.0	74.5	13.7	-90.00	131.9	-153.4	4,022.6	3,940.0	82.64	48.677	
11,600.0	7,740.0	7,828.0	7,828.0	76.1	13.7	-90.00	131.9	-153.4	4,113.0	4,028.6	84.36	48.754	
11,700.0	7,740.0	7,828.0	7,828.0	77.7	13.7	-90.00	131.9	-153.4	4,203.8	4,117.7	86.08	48.833	
11,800.0	7,740.0	7,828.0	7,828.0	79.3	13.7	-90.00	131.9	-153.4	4,295.0	4,207.2	87.81	48.912	
11,900.0	7,740.0	7,828.0	7,828.0	80.9	13.7	-90.00	131.9	-153.4	4,386.6	4,297.0	89.54	48.992	
12,000.0	7,740.0	7,828.0	7,828.0	82.5	13.7	-90.00	131.9	-153.4	4,478.5	4,387.2	91.26	49.072	
12,100.0	7,740.0	7,828.0	7,828.0	84.2	13.7	-90.00	131.9	-153.4	4,570.8	4,477.8	92.99	49.153	
12,200.0	7,740.0	7,828.0	7,828.0	85.8	13.7	-90.00	131.9	-153.4	4,663.4	4,568.7	94.72	49.233	
12,300.0	7,740.0	7,828.0	7,828.0	87.4	13.7	-90.00	131.9	-153.4	4,756.3	4,659.9	96.45	49.312	
12,400.0	7,740.0	7,828.0	7,828.0	89.1	13.7	-90.00	131.9	-153.4	4,849.5	4,751.3	98.18	49.392	
12,500.0	7,740.0	7,828.0	7,828.0	90.7	13.7	-90.00	131.9	-153.4	4,943.0	4,843.0	99.92	49.470	
12,600.0	7,740.0	7,828.0	7,828.0	92.4	13.7	-90.00	131.9	-153.4	5,036.7	4,935.0	101.65	49.549	
12,700.0	7,740.0	7,828.0	7,828.0	94.0	13.7	-90.00	131.9	-153.4	5,130.6	5,027.2	103.39	49.626	
12,800.0	7,740.0	7,828.0	7,828.0	95.7	13.7	-90.00	131.9	-153.4	5,224.8	5,119.7	105.12	49.703	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY											Offset Site Error: 0.0 ft			
Survey Program: 100-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	44.7	44.7	0.0	0.1	36.49	1,577.0	1,166.6	1,961.6					
100.0	100.0	143.1	143.1	0.2	0.3	36.52	1,576.6	1,167.6	1,961.9	1,961.5	0.40	4,884.983		
200.0	200.0	248.2	248.2	0.3	0.4	36.57	1,575.7	1,169.1	1,962.0	1,961.3	0.76	2,582.893		
250.0	250.0	298.7	298.7	0.4	0.5	36.59	1,575.3	1,169.6	1,962.1	1,961.1	0.93	2,098.523		
300.0	300.0	349.8	349.8	0.5	0.6	-63.40	1,575.1	1,170.0	1,962.0	1,960.8	1.12	1,758.205		
400.0	400.0	454.4	454.3	0.7	0.8	-63.45	1,574.7	1,170.2	1,961.1	1,959.6	1.47	1,330.576		
500.0	499.9	556.3	556.3	0.9	1.0	-63.56	1,574.4	1,170.0	1,959.1	1,957.3	1.83	1,069.782		
600.0	599.8	665.7	665.7	1.1	1.2	-63.74	1,574.2	1,169.3	1,956.3	1,954.1	2.21	885.359		
700.0	699.5	777.1	777.1	1.3	1.4	-63.99	1,573.2	1,168.4	1,952.0	1,949.4	2.60	750.117		
800.0	799.2	881.0	881.0	1.5	1.5	-64.27	1,571.7	1,167.6	1,946.6	1,943.6	3.00	649.768		
900.0	898.6	983.2	983.2	1.7	1.7	-64.60	1,569.9	1,167.1	1,940.3	1,936.9	3.40	570.311		
1,000.0	997.9	1,084.2	1,084.1	2.0	1.9	-64.99	1,568.3	1,166.0	1,933.2	1,929.4	3.82	505.422		
1,100.0	1,096.9	1,189.4	1,189.3	2.3	2.1	-65.47	1,566.8	1,164.4	1,925.2	1,920.9	4.28	450.285		
1,200.0	1,195.7	1,287.3	1,287.2	2.6	2.3	-66.00	1,565.6	1,162.3	1,916.4	1,911.7	4.74	404.588		
1,300.0	1,294.1	1,386.0	1,385.8	2.9	2.4	-66.60	1,564.6	1,159.9	1,907.1	1,901.9	5.23	364.989		
1,400.0	1,392.3	1,479.6	1,479.4	3.3	2.6	-67.24	1,563.9	1,157.2	1,897.4	1,891.6	5.73	330.996		
1,500.0	1,490.1	1,572.8	1,572.5	3.7	2.8	-67.95	1,563.6	1,154.5	1,887.4	1,881.1	6.27	301.108		
1,600.0	1,587.5	1,672.2	1,671.9	4.1	2.9	-68.74	1,563.1	1,151.9	1,877.1	1,870.2	6.85	274.174		
1,700.0	1,684.6	1,763.2	1,762.9	4.5	3.1	-69.53	1,562.8	1,149.3	1,866.4	1,859.0	7.44	250.803		
1,750.0	1,732.9	1,807.4	1,807.0	4.8	3.2	-69.94	1,562.9	1,147.9	1,861.1	1,853.4	7.75	240.247		
1,800.0	1,781.2	1,856.5	1,856.1	5.0	3.3	-68.46	1,563.0	1,146.5	1,855.7	1,847.6	8.06	230.288		
1,900.0	1,877.8	1,947.5	1,947.1	5.5	3.4	-65.40	1,562.8	1,144.3	1,843.9	1,835.2	8.66	212.872		
1,981.2	1,956.2	2,017.3	2,016.9	5.9	3.6	-62.88	1,562.9	1,143.0	1,833.8	1,824.7	9.14	200.595		
2,000.0	1,974.4	2,034.0	2,033.6	6.0	3.6	-62.99	1,563.0	1,142.7	1,831.4	1,822.2	9.26	197.867		
2,100.0	2,071.3	2,126.2	2,125.8	6.4	3.7	-63.57	1,563.4	1,141.2	1,819.6	1,809.8	9.85	184.786		
2,181.5	2,150.7	2,209.0	2,208.5	6.7	3.9	-64.07	1,563.6	1,140.1	1,810.8	1,800.5	10.33	175.283		
2,200.0	2,168.6	2,226.7	2,226.3	6.8	3.9	-64.19	1,563.6	1,139.9	1,808.8	1,798.4	10.44	173.292		
2,300.0	2,266.1	2,323.9	2,323.5	7.3	4.1	-64.84	1,563.5	1,139.0	1,798.5	1,787.5	11.02	163.142		
2,400.0	2,363.5	2,419.9	2,419.5	7.7	4.3	-65.50	1,563.5	1,138.1	1,788.3	1,776.7	11.61	154.005		
2,500.0	2,461.0	2,500.0	2,499.5	8.1	4.4	-66.06	1,563.9	1,137.2	1,778.9	1,766.7	12.17	146.131		
2,600.0	2,558.4	2,588.8	2,588.3	8.6	4.6	-66.70	1,565.1	1,135.9	1,770.4	1,757.7	12.76	138.785		
2,700.0	2,655.8	2,689.6	2,689.1	9.0	4.7	-67.46	1,567.1	1,134.2	1,762.5	1,749.2	13.37	131.842		
2,800.0	2,753.3	2,795.4	2,794.8	9.4	4.9	-68.27	1,568.8	1,132.0	1,754.5	1,740.5	13.99	125.372		
2,900.0	2,850.7	2,893.3	2,892.7	9.9	5.1	-69.01	1,570.0	1,130.1	1,746.6	1,732.0	14.61	119.578		
3,000.0	2,948.2	2,985.6	2,985.0	10.3	5.3	-69.70	1,571.1	1,128.8	1,739.0	1,723.8	15.21	114.355		
3,100.0	3,045.6	3,077.7	3,077.1	10.7	5.4	-70.39	1,572.3	1,128.0	1,732.0	1,716.2	15.81	109.558		
3,200.0	3,143.0	3,179.6	3,179.0	11.2	5.6	-71.14	1,573.6	1,127.3	1,725.4	1,709.0	16.43	104.994		
3,300.0	3,240.5	3,297.6	3,297.0	11.6	5.8	-72.02	1,574.2	1,126.3	1,718.4	1,701.3	17.09	100.538		
3,400.0	3,337.9	3,399.6	3,399.0	12.0	6.0	-72.78	1,573.9	1,125.3	1,710.8	1,693.1	17.72	96.548		
3,500.0	3,435.3	3,511.4	3,510.7	12.5	6.2	-73.63	1,573.1	1,123.8	1,703.0	1,684.6	18.37	92.707		
3,600.0	3,532.8	3,616.8	3,616.2	12.9	6.4	-74.43	1,571.6	1,122.4	1,694.9	1,675.9	19.01	89.170		
3,700.0	3,630.2	3,726.9	3,726.2	13.3	6.6	-75.26	1,569.0	1,121.0	1,686.2	1,666.5	19.65	85.793		
3,800.0	3,727.7	3,814.4	3,813.7	13.8	6.7	-75.91	1,567.0	1,120.5	1,677.9	1,657.7	20.25	82.842		
3,900.0	3,825.1	3,917.8	3,917.0	14.2	6.9	-76.68	1,564.6	1,119.9	1,670.1	1,649.2	20.89	79.947		
4,000.0	3,922.5	4,022.2	4,021.4	14.6	7.1	-77.50	1,561.9	1,118.3	1,662.0	1,640.5	21.53	77.198		
4,100.0	4,020.0	4,123.0	4,122.2	15.1	7.3	-78.28	1,559.0	1,117.3	1,654.0	1,631.8	22.16	74.639		
4,200.0	4,117.4	4,219.4	4,218.5	15.5	7.4	-79.03	1,556.0	1,116.2	1,646.2	1,623.4	22.78	72.252		
4,300.0	4,214.9	4,308.6	4,307.7	16.0	7.6	-79.75	1,553.6	1,114.9	1,638.9	1,615.5	23.39	70.057		
4,400.0	4,312.3	4,390.8	4,389.8	16.4	7.7	-80.42	1,552.0	1,113.7	1,632.7	1,608.7	23.99	68.056		
4,500.0	4,409.7	4,476.5	4,475.6	16.8	7.9	-81.12	1,551.0	1,112.7	1,627.6	1,603.0	24.59	66.180		
4,600.0	4,507.2	4,568.7	4,567.7	17.3	8.0	-81.87	1,550.4	1,111.7	1,623.3	1,598.1	25.21	64.396		
4,700.0	4,604.6	4,668.9	4,667.9	17.7	8.2	-82.69	1,549.8	1,110.8	1,619.4	1,593.6	25.84	62.676		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error:	0.0 ft
Survey Program: 100-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)			
4,800.0	4,702.0	4,765.3	4,764.3	18.1	8.4	-83.48	1,549.1	1,109.7	1,615.7	1,589.3	26.46	61.064	
4,900.0	4,799.5	4,861.1	4,860.1	18.6	8.6	-84.27	1,548.5	1,108.7	1,612.5	1,585.4	27.08	59.550	
5,000.0	4,896.9	4,956.3	4,955.3	19.0	8.7	-85.07	1,548.0	1,107.5	1,609.7	1,582.0	27.70	58.121	
5,100.0	4,994.4	5,046.4	5,045.4	19.4	8.9	-85.84	1,547.7	1,106.1	1,607.4	1,579.1	28.30	56.799	
5,200.0	5,091.8	5,138.7	5,137.7	19.9	9.0	-86.62	1,548.0	1,105.0	1,606.0	1,577.1	28.91	55.559	
5,300.0	5,189.2	5,236.5	5,235.5	20.3	9.2	-87.43	1,548.1	1,104.1	1,605.0	1,575.4	29.52	54.367	
5,400.0	5,286.7	5,326.3	5,325.3	20.8	9.4	-88.19	1,548.5	1,103.0	1,604.4	1,574.3	30.12	53.271	
5,405.7	5,292.3	5,331.2	5,330.1	20.8	9.4	-88.23	1,548.5	1,103.0	1,604.4	1,574.3	30.15	53.211	
5,500.0	5,384.1	5,413.5	5,412.5	21.2	9.5	-88.93	1,549.5	1,102.0	1,604.9	1,574.2	30.71	52.262	
5,600.0	5,481.6	5,516.2	5,515.1	21.6	9.7	-89.80	1,550.6	1,100.7	1,605.8	1,574.4	31.32	51.264	
5,700.0	5,579.0	5,606.3	5,605.2	22.1	9.9	-90.56	1,551.7	1,099.5	1,607.1	1,575.2	31.91	50.359	
5,800.0	5,676.4	5,710.8	5,709.7	22.5	10.0	-91.46	1,552.9	1,097.9	1,608.7	1,576.1	32.52	49.464	
5,900.0	5,773.9	5,800.0	5,798.9	22.9	10.2	-92.21	1,554.0	1,096.7	1,610.7	1,577.6	33.10	48.657	
6,000.0	5,871.3	5,896.5	5,895.3	23.4	10.4	-93.03	1,555.4	1,095.4	1,613.3	1,579.6	33.69	47.884	
6,100.0	5,968.7	5,985.8	5,984.6	23.8	10.5	-93.78	1,556.9	1,094.2	1,616.5	1,582.2	34.26	47.178	
6,200.0	6,066.2	6,086.9	6,085.7	24.3	10.7	-94.61	1,558.9	1,093.2	1,620.2	1,585.3	34.85	46.493	
6,300.0	6,163.6	6,183.3	6,182.2	24.7	10.9	-95.39	1,560.6	1,092.6	1,624.1	1,588.7	35.42	45.849	
6,400.0	6,261.1	6,283.0	6,281.8	25.1	11.0	-96.20	1,562.3	1,091.8	1,628.3	1,592.3	36.00	45.234	
6,500.0	6,358.5	6,377.4	6,376.1	25.6	11.2	-96.96	1,564.0	1,090.9	1,632.8	1,596.2	36.56	44.663	
6,600.0	6,455.9	6,474.3	6,473.1	26.0	11.4	-97.75	1,565.8	1,090.0	1,637.7	1,600.6	37.12	44.121	
6,700.0	6,553.4	6,572.7	6,571.4	26.5	11.6	-98.55	1,567.5	1,088.7	1,643.0	1,605.3	37.68	43.608	
6,800.0	6,650.8	6,659.6	6,658.3	26.9	11.7	-99.25	1,569.2	1,087.7	1,648.7	1,610.5	38.21	43.145	
6,900.0	6,748.3	6,745.9	6,744.5	27.3	11.9	-99.93	1,571.6	1,086.8	1,655.5	1,616.8	38.75	42.728	
7,000.0	6,845.7	6,839.1	6,837.7	27.8	12.0	-100.64	1,574.7	1,086.3	1,663.1	1,623.8	39.28	42.338	
7,100.0	6,943.1	6,935.6	6,934.1	28.2	12.2	-101.35	1,578.1	1,086.7	1,671.0	1,631.2	39.82	41.967	
7,200.0	7,040.6	7,027.3	7,025.8	28.6	12.3	-101.98	1,581.7	1,087.8	1,679.3	1,639.0	40.34	41.625	
7,300.0	7,138.0	7,112.7	7,111.0	29.1	12.5	-102.54	1,585.6	1,089.3	1,688.4	1,647.6	40.86	41.320	
7,341.8	7,178.7	7,145.9	7,144.3	29.3	12.5	-102.76	1,587.4	1,090.0	1,692.5	1,651.5	41.07	41.206	
7,350.0	7,186.7	7,152.5	7,150.8	29.3	12.6	-99.23	1,587.7	1,090.1	1,693.3	1,652.2	41.12	41.181	
7,400.0	7,235.4	7,200.0	7,198.2	29.5	12.6	-79.11	1,590.6	1,091.3	1,695.8	1,654.5	41.25	41.105	
7,450.0	7,283.6	7,236.3	7,234.4	29.7	12.7	-63.67	1,593.0	1,092.3	1,694.2	1,653.1	41.12	41.198	
7,500.0	7,331.0	7,280.9	7,278.9	29.9	12.8	-53.25	1,596.0	1,093.8	1,688.6	1,647.8	40.75	41.436	
7,550.0	7,377.4	7,337.6	7,335.4	30.1	12.9	-46.51	1,600.0	1,096.0	1,678.8	1,638.7	40.15	41.811	
7,600.0	7,422.2	7,402.1	7,399.8	30.3	13.0	-42.27	1,603.9	1,098.6	1,664.6	1,625.2	39.33	42.319	
7,650.0	7,465.2	7,464.0	7,461.5	30.5	13.1	-39.69	1,606.9	1,101.2	1,646.0	1,607.6	38.31	42.966	
7,700.0	7,506.0	7,520.0	7,517.4	30.7	13.2	-38.31	1,609.2	1,103.6	1,623.2	1,586.1	37.10	43.751	
7,750.0	7,544.4	7,568.6	7,566.0	30.9	13.3	-37.86	1,610.7	1,105.5	1,596.6	1,560.9	35.75	44.662	
7,800.0	7,580.0	7,610.7	7,608.0	31.1	13.3	-38.22	1,611.8	1,107.1	1,566.6	1,532.3	34.30	45.668	
7,850.0	7,612.6	7,643.2	7,640.4	31.3	13.4	-39.25	1,612.6	1,108.2	1,533.6	1,500.7	32.83	46.719	
7,900.0	7,641.9	7,672.6	7,669.8	31.5	13.4	-41.11	1,613.4	1,109.2	1,497.8	1,466.4	31.40	47.697	
7,950.0	7,667.7	7,700.0	7,697.2	31.7	13.5	-43.93	1,614.1	1,110.1	1,459.6	1,429.5	30.15	48.420	
8,000.0	7,689.8	7,721.3	7,718.5	32.0	13.5	-47.73	1,614.6	1,110.7	1,419.3	1,390.2	29.17	48.666	
8,050.0	7,708.0	7,740.2	7,737.4	32.2	13.6	-52.87	1,615.1	1,111.2	1,377.2	1,348.6	28.61	48.137	
8,100.0	7,722.3	7,755.2	7,752.4	32.4	13.6	-59.55	1,615.5	1,111.6	1,333.6	1,305.1	28.58	46.669	
8,150.0	7,732.4	7,766.3	7,763.5	32.7	13.6	-67.94	1,615.7	1,111.9	1,288.9	1,259.9	29.05	44.366	
8,200.0	7,738.3	7,773.3	7,770.4	33.0	13.6	-78.00	1,615.9	1,112.1	1,243.4	1,213.6	29.83	41.677	
8,244.9	7,740.0	7,776.0	7,773.2	33.2	13.6	-88.07	1,616.0	1,112.2	1,202.2	1,171.7	30.51	39.402	
8,300.0	7,740.0	7,777.4	7,774.5	33.5	13.6	-88.23	1,616.0	1,112.2	1,151.6	1,120.5	31.14	36.982	
8,400.0	7,740.0	7,779.8	7,777.0	34.1	13.6	-88.53	1,616.1	1,112.3	1,061.1	1,028.7	32.36	32.795	
8,500.0	7,740.0	7,782.3	7,779.4	34.8	13.6	-88.83	1,616.1	1,112.3	972.4	938.7	33.65	28.896	
8,600.0	7,740.0	7,784.7	7,781.9	35.6	13.6	-89.13	1,616.2	1,112.4	886.1	851.1	35.01	25.308	
8,700.0	7,740.0	7,787.1	7,784.3	36.5	13.6	-89.42	1,616.3	1,112.5	803.0	766.5	36.43	22.043	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY												Offset Site Error:	0.0 ft
Survey Program: 100-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
8,800.0	7,740.0	7,789.6	7,786.7	37.4	13.6	-89.72	1,616.3	1,112.5	724.1	686.2	37.89	19.112	
8,900.0	7,740.0	7,792.0	7,789.2	38.3	13.6	-90.02	1,616.4	1,112.6	651.1	611.7	39.38	16.532	
9,000.0	7,740.0	7,794.4	7,791.6	39.4	13.7	-90.32	1,616.5	1,112.6	586.1	545.2	40.91	14.326	
9,100.0	7,740.0	7,796.9	7,794.0	40.4	13.7	-90.62	1,616.5	1,112.7	532.0	489.6	42.46	12.529	
9,200.0	7,740.0	7,800.0	7,797.1	41.6	13.7	-91.00	1,616.6	1,112.8	492.5	448.5	44.04	11.184	
9,300.0	7,740.0	7,801.8	7,798.9	42.7	13.7	-91.21	1,616.6	1,112.8	471.3	425.7	45.63	10.329	
9,352.4	7,740.0	7,803.0	7,800.2	43.3	13.7	-91.37	1,616.7	1,112.8	468.4	421.9	46.47	10.079 CC, ES	
9,400.0	7,740.0	7,804.2	7,801.4	43.9	13.7	-91.51	1,616.7	1,112.9	470.8	423.6	47.23	9.967 SF	
9,500.0	7,740.0	7,806.7	7,803.9	45.2	13.7	-91.82	1,616.8	1,112.9	491.1	442.2	48.85	10.052	
9,600.0	7,740.0	7,809.2	7,806.4	46.4	13.7	-92.13	1,616.8	1,113.0	529.8	479.3	50.48	10.494	
9,700.0	7,740.0	7,811.8	7,808.9	47.7	13.7	-92.44	1,616.9	1,113.1	583.2	531.1	52.12	11.190	
9,800.0	7,740.0	7,814.4	7,811.5	49.1	13.7	-92.75	1,617.0	1,113.1	647.8	594.0	53.76	12.048	
9,900.0	7,740.0	7,817.0	7,814.1	50.4	13.7	-93.07	1,617.0	1,113.2	720.4	665.0	55.41	13.001	
10,000.0	7,740.0	7,819.6	7,816.7	51.8	13.7	-93.39	1,617.1	1,113.2	799.0	742.0	57.07	14.001	
10,100.0	7,740.0	7,822.3	7,819.4	53.2	13.7	-93.72	1,617.2	1,113.3	882.0	823.3	58.73	15.018	
10,200.0	7,740.0	7,825.0	7,822.1	54.6	13.7	-94.05	1,617.2	1,113.4	968.1	907.8	60.39	16.031	
10,300.0	7,740.0	7,827.7	7,824.8	56.1	13.7	-94.38	1,617.3	1,113.4	1,056.7	994.7	62.06	17.029	
10,400.0	7,740.0	7,830.4	7,827.6	57.6	13.7	-94.72	1,617.4	1,113.5	1,147.2	1,083.5	63.72	18.003	
10,500.0	7,740.0	7,833.2	7,830.4	59.0	13.7	-95.06	1,617.5	1,113.5	1,239.1	1,173.7	65.39	18.951	
10,600.0	7,740.0	7,836.1	7,833.2	60.5	13.7	-95.40	1,617.5	1,113.6	1,332.2	1,265.2	67.05	19.868	
10,700.0	7,740.0	7,838.9	7,836.0	62.0	13.7	-95.75	1,617.6	1,113.7	1,426.2	1,357.5	68.72	20.755	
10,800.0	7,740.0	7,841.8	7,838.9	63.5	13.7	-96.10	1,617.7	1,113.7	1,521.0	1,450.6	70.38	21.611	
10,900.0	7,740.0	7,844.7	7,841.8	65.1	13.7	-96.45	1,617.8	1,113.8	1,616.4	1,544.4	72.04	22.437	
11,000.0	7,740.0	7,847.7	7,844.8	66.6	13.7	-96.81	1,617.9	1,113.9	1,712.3	1,638.6	73.70	23.234	
11,100.0	7,740.0	7,850.7	7,847.8	68.2	13.8	-97.17	1,617.9	1,113.9	1,808.7	1,733.3	75.35	24.002	
11,200.0	7,740.0	7,853.7	7,850.8	69.7	13.8	-97.54	1,618.0	1,114.0	1,905.4	1,828.4	77.01	24.744	
11,300.0	7,740.0	7,856.8	7,853.9	71.3	13.8	-97.91	1,618.1	1,114.0	2,002.5	1,923.8	78.65	25.459	
11,400.0	7,740.0	7,859.9	7,857.0	72.9	13.8	-98.28	1,618.2	1,114.1	2,099.8	2,019.5	80.30	26.150	
11,500.0	7,740.0	7,863.0	7,860.1	74.5	13.8	-98.66	1,618.3	1,114.2	2,197.3	2,115.4	81.93	26.818	
11,600.0	7,740.0	7,866.2	7,863.3	76.1	13.8	-99.04	1,618.4	1,114.2	2,295.1	2,211.5	83.57	27.465	
11,700.0	7,740.0	7,869.4	7,866.5	77.7	13.8	-99.43	1,618.5	1,114.3	2,393.0	2,307.8	85.19	28.090	
11,800.0	7,740.0	7,872.7	7,869.8	79.3	13.8	-99.82	1,618.6	1,114.4	2,491.1	2,404.3	86.81	28.697	
11,900.0	7,740.0	7,876.0	7,873.1	80.9	13.8	-100.21	1,618.7	1,114.4	2,589.4	2,501.0	88.42	29.285	
12,000.0	7,740.0	7,879.3	7,876.4	82.5	13.8	-100.61	1,618.8	1,114.5	2,687.7	2,597.7	90.02	29.856	
12,100.0	7,740.0	7,882.7	7,879.8	84.2	13.8	-101.01	1,618.9	1,114.6	2,786.2	2,694.6	91.62	30.411	
12,200.0	7,740.0	7,886.1	7,883.2	85.8	13.8	-101.42	1,619.0	1,114.6	2,884.8	2,791.6	93.21	30.951	
12,300.0	7,740.0	7,889.6	7,886.7	87.4	13.8	-101.83	1,619.1	1,114.7	2,983.5	2,888.7	94.78	31.477	
12,400.0	7,740.0	7,893.1	7,890.2	89.1	13.8	-102.24	1,619.2	1,114.8	3,082.2	2,985.9	96.35	31.990	
12,500.0	7,740.0	7,896.7	7,893.7	90.7	13.8	-102.66	1,619.3	1,114.8	3,181.1	3,083.2	97.91	32.490	
12,600.0	7,740.0	7,900.2	7,897.3	92.4	13.8	-103.08	1,619.4	1,114.9	3,280.0	3,180.5	99.46	32.979	
12,700.0	7,740.0	7,903.4	7,900.5	94.0	13.8	-103.45	1,619.5	1,115.0	3,378.9	3,277.9	101.01	33.451	
12,800.0	7,740.0	7,906.6	7,903.7	95.7	13.8	-103.82	1,619.6	1,115.0	3,477.9	3,375.4	102.56	33.912	
12,900.0	7,740.0	7,909.8	7,906.9	97.3	13.9	-104.20	1,619.7	1,115.1	3,577.0	3,472.9	104.10	34.363	
13,000.0	7,740.0	7,913.0	7,910.1	99.0	13.9	-104.57	1,619.8	1,115.1	3,676.1	3,570.5	105.62	34.804	
13,100.0	7,740.0	7,916.3	7,913.3	100.7	13.9	-104.94	1,619.9	1,115.2	3,775.3	3,668.1	107.14	35.236	
13,200.0	7,740.0	7,919.5	7,916.6	102.3	13.9	-105.32	1,620.0	1,115.2	3,874.5	3,765.8	108.65	35.659	
13,300.0	7,740.0	7,922.8	7,919.8	104.0	13.9	-105.69	1,620.1	1,115.3	3,973.7	3,863.6	110.15	36.074	
13,400.0	7,740.0	7,926.0	7,923.1	105.7	13.9	-106.06	1,620.2	1,115.4	4,073.0	3,961.4	111.65	36.482	
13,500.0	7,740.0	7,929.3	7,926.4	107.3	13.9	-106.44	1,620.3	1,115.4	4,172.3	4,059.2	113.13	36.882	
13,600.0	7,740.0	7,932.6	7,929.7	109.0	13.9	-106.81	1,620.4	1,115.5	4,271.6	4,157.0	114.60	37.275	
13,700.0	7,740.0	7,935.9	7,933.0	110.7	13.9	-107.18	1,620.5	1,115.5	4,371.0	4,255.0	116.06	37.663	
13,800.0	7,740.0	7,939.2	7,936.3	112.4	13.9	-107.56	1,620.6	1,115.6	4,470.4	4,352.9	117.51	38.044	

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 21-7 (EXISTING) - ENCANA WELL - GY		Offset Site Error:		0.0 ft
Survey Program: 100-MWD															Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
13,900.0	7,740.0	7,942.5	7,939.6	114.1	13.9	-107.93	1,620.7	1,115.6	4,569.8	4,450.9	118.94	38.420					
14,000.0	7,740.0	7,945.9	7,942.9	115.8	13.9	-108.30	1,620.8	1,115.7	4,669.2	4,548.9	120.37	38.790					
14,100.0	7,740.0	7,949.2	7,946.3	117.5	13.9	-108.68	1,620.9	1,115.8	4,768.7	4,646.9	121.79	39.156					
14,200.0	7,740.0	7,952.6	7,949.6	119.2	13.9	-109.05	1,621.0	1,115.8	4,868.2	4,745.0	123.19	39.517					
14,300.0	7,740.0	7,956.0	7,953.0	120.8	13.9	-109.42	1,621.1	1,115.9	4,967.7	4,843.1	124.59	39.873					
14,400.0	7,740.0	7,959.4	7,956.4	122.5	13.9	-109.79	1,621.3	1,115.9	5,067.2	4,941.2	125.97	40.226					
14,500.0	7,740.0	7,962.8	7,959.8	124.2	13.9	-110.16	1,621.4	1,116.0	5,166.7	5,039.4	127.34	40.575					
14,600.0	7,740.0	7,966.2	7,963.2	125.9	14.0	-110.54	1,621.5	1,116.0	5,266.3	5,137.6	128.69	40.921					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	52.3	52.3	0.0	0.1	34.84	1,594.8	1,110.2	1,943.2					
100.0	100.0	151.1	151.1	0.2	0.3	34.85	1,594.8	1,110.3	1,943.2	1,942.8	0.42	4,676.149		
200.0	200.0	246.0	246.0	0.3	0.4	34.83	1,595.1	1,110.0	1,943.4	1,942.6	0.76	2,571.453		
250.0	250.0	304.9	304.9	0.4	0.5	34.82	1,595.5	1,109.7	1,943.4	1,942.5	0.95	2,054.546		
300.0	300.0	381.2	381.2	0.5	0.7	-65.21	1,595.4	1,108.9	1,943.1	1,941.9	1.17	1,665.172		
400.0	400.0	542.2	542.0	0.7	1.0	-65.18	1,588.5	1,110.0	1,939.2	1,937.5	1.63	1,188.601		
500.0	499.9	817.1	813.6	0.9	1.7	-64.57	1,548.3	1,121.1	1,927.1	1,924.6	2.47	781.383		
600.0	599.8	906.0	900.6	1.1	2.1	-64.42	1,530.7	1,125.7	1,911.6	1,908.7	2.92	655.692		
700.0	699.5	1,145.5	1,133.5	1.3	3.1	-63.82	1,476.2	1,135.6	1,893.3	1,889.4	3.88	487.527		
800.0	799.2	1,300.2	1,281.1	1.5	3.9	-63.43	1,430.4	1,140.9	1,867.4	1,862.7	4.68	398.712		
900.0	898.6	1,402.9	1,378.4	1.7	4.5	-63.26	1,397.9	1,144.7	1,839.4	1,834.1	5.33	345.431		
1,000.0	997.9	1,507.1	1,476.9	2.0	5.1	-63.09	1,363.9	1,149.4	1,810.6	1,804.6	6.01	301.232		
1,100.0	1,096.9	1,587.6	1,552.9	2.3	5.6	-63.05	1,337.5	1,153.2	1,781.1	1,774.5	6.61	269.508		
1,200.0	1,195.7	1,669.6	1,630.4	2.6	6.0	-63.04	1,311.3	1,157.5	1,751.7	1,744.5	7.24	241.888		
1,300.0	1,294.1	1,775.0	1,729.9	2.9	6.7	-62.97	1,277.1	1,163.8	1,721.8	1,713.8	8.01	214.903		
1,400.0	1,392.3	1,862.0	1,811.9	3.3	7.2	-62.99	1,248.5	1,169.5	1,691.1	1,682.4	8.73	193.766		
1,500.0	1,490.1	1,976.6	1,920.1	3.7	7.8	-63.05	1,211.2	1,175.1	1,659.0	1,649.4	9.55	173.788		
1,600.0	1,587.5	2,037.0	1,977.3	4.1	8.2	-63.28	1,191.9	1,177.7	1,626.4	1,616.2	10.15	160.165		
1,700.0	1,684.6	2,124.0	2,059.9	4.5	8.7	-63.52	1,165.1	1,182.5	1,594.5	1,583.6	10.90	146.249		
1,750.0	1,732.9	2,170.2	2,103.8	4.8	9.0	-63.65	1,151.1	1,185.3	1,578.7	1,567.4	11.30	139.749		
1,800.0	1,781.2	2,231.2	2,161.7	5.0	9.3	-61.67	1,132.1	1,189.0	1,562.2	1,550.4	11.76	132.814		
1,900.0	1,877.8	2,334.6	2,259.3	5.5	9.9	-57.62	1,098.6	1,195.4	1,527.3	1,514.7	12.61	121.080		
1,981.2	1,956.2	2,410.1	2,330.6	5.9	10.4	-54.31	1,074.2	1,199.9	1,497.9	1,484.7	13.25	113.043		
2,000.0	1,974.4	2,427.4	2,347.0	6.0	10.5	-54.23	1,068.6	1,200.9	1,491.0	1,477.6	13.41	111.197		
2,100.0	2,071.3	2,520.4	2,435.1	6.4	11.0	-53.77	1,039.3	1,205.4	1,454.9	1,440.6	14.23	102.206		
2,181.5	2,150.7	2,597.0	2,507.7	6.7	11.5	-53.35	1,015.2	1,209.0	1,426.1	1,411.2	14.90	95.720		
2,200.0	2,168.6	2,614.3	2,524.1	6.8	11.6	-53.31	1,009.8	1,209.8	1,419.7	1,404.6	15.04	94.395		
2,300.0	2,266.1	2,707.0	2,612.2	7.3	12.1	-53.10	981.0	1,213.8	1,384.8	1,369.0	15.81	87.604		
2,400.0	2,363.5	2,850.8	2,747.9	7.7	13.0	-52.70	934.1	1,219.2	1,348.7	1,331.9	16.81	80.240		
2,500.0	2,461.0	2,956.0	2,846.4	8.1	13.6	-52.37	897.1	1,221.6	1,309.6	1,292.0	17.66	74.169		
2,600.0	2,558.4	3,041.8	2,926.5	8.6	14.2	-52.03	866.6	1,224.2	1,270.8	1,252.4	18.42	68.972		
2,700.0	2,655.8	3,126.3	3,005.7	9.0	14.7	-51.71	837.0	1,226.8	1,232.4	1,213.2	19.19	64.220		
2,800.0	2,753.3	3,219.1	3,092.6	9.4	15.3	-51.29	804.6	1,230.4	1,194.6	1,174.6	20.00	59.717		
2,900.0	2,850.7	3,325.5	3,192.1	9.9	16.0	-50.83	767.2	1,233.2	1,156.1	1,135.2	20.86	55.412		
3,000.0	2,948.2	3,406.8	3,268.4	10.3	16.5	-50.51	739.1	1,234.5	1,117.2	1,095.6	21.60	51.719		
3,100.0	3,045.6	3,473.8	3,331.4	10.7	16.9	-50.21	716.5	1,236.5	1,080.0	1,057.7	22.27	48.485		
3,200.0	3,143.0	3,542.8	3,396.8	11.2	17.3	-49.91	694.8	1,239.6	1,045.2	1,022.3	22.95	45.536		
3,300.0	3,240.5	3,626.4	3,476.4	11.6	17.7	-49.54	669.4	1,244.0	1,011.9	988.2	23.71	42.679		
3,400.0	3,337.9	3,704.8	3,551.0	12.0	18.2	-49.13	646.0	1,249.3	979.9	955.4	24.45	40.080		
3,500.0	3,435.3	3,786.0	3,628.8	12.5	18.6	-48.77	623.4	1,254.7	949.4	924.2	25.16	37.735		
3,600.0	3,532.8	3,895.0	3,734.3	12.9	19.1	-48.55	596.4	1,258.8	919.2	893.3	25.90	35.488		
3,700.0	3,630.2	4,029.3	3,863.8	13.3	19.8	-48.33	560.5	1,259.9	885.6	858.8	26.76	33.089		
3,800.0	3,727.7	4,107.2	3,938.1	13.8	20.2	-48.04	537.5	1,261.3	850.8	823.3	27.47	30.975		
3,900.0	3,825.1	4,203.7	4,029.9	14.2	20.8	-47.43	508.1	1,266.2	817.5	789.2	28.31	28.880		
4,000.0	3,922.5	4,321.2	4,140.4	14.6	21.5	-46.40	468.7	1,272.2	782.2	752.9	29.30	26.695		
4,100.0	4,020.0	4,417.5	4,230.5	15.1	22.1	-45.41	434.8	1,276.1	745.3	715.1	30.19	24.690		
4,200.0	4,117.4	4,500.6	4,308.2	15.5	22.7	-44.46	405.6	1,280.0	709.0	678.0	31.00	22.870		
4,300.0	4,214.9	4,578.3	4,381.5	16.0	23.1	-43.59	380.1	1,283.9	674.6	642.9	31.75	21.246		
4,400.0	4,312.3	4,658.2	4,457.5	16.4	23.5	-42.77	356.1	1,288.3	642.5	610.0	32.49	19.779		
4,500.0	4,409.7	4,752.2	4,547.5	16.8	24.0	-41.82	329.2	1,293.5	611.7	578.4	33.28	18.379		
4,600.0	4,507.2	4,848.2	4,639.7	17.3	24.5	-40.88	302.8	1,297.9	581.0	546.9	34.04	17.067		
4,700.0	4,604.6	4,945.2	4,733.2	17.7	25.0	-40.02	277.0	1,300.8	549.7	514.9	34.78	15.806		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 71-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)			
4,800.0	4,702.0	5,029.6	4,814.8	18.1	25.4	-39.33	256.0	1,303.3	519.5	484.1	35.43	14.663	
4,900.0	4,799.5	5,115.2	4,898.3	18.6	25.7	-38.74	237.0	1,306.3	491.6	455.5	36.05	13.634	
5,000.0	4,896.9	5,205.6	4,987.0	19.0	26.0	-38.39	219.8	1,309.1	465.1	428.4	36.65	12.691	
5,100.0	4,994.4	5,297.4	5,077.5	19.4	26.3	-38.32	204.9	1,311.4	439.8	402.6	37.21	11.820	
5,200.0	5,091.8	5,391.6	5,170.7	19.9	26.6	-38.48	191.5	1,313.4	415.3	377.6	37.75	11.003	
5,300.0	5,189.2	5,485.7	5,264.1	20.3	26.8	-38.95	180.0	1,314.7	391.5	353.2	38.25	10.233	
5,400.0	5,286.7	5,579.1	5,357.1	20.8	27.0	-39.84	170.8	1,315.3	368.5	329.8	38.72	9.517	
5,500.0	5,384.1	5,671.2	5,448.9	21.2	27.2	-41.17	164.0	1,315.4	346.9	307.7	39.16	8.857	
5,600.0	5,481.6	5,759.5	5,537.1	21.6	27.3	-42.80	159.6	1,316.2	327.4	287.8	39.57	8.275	
5,700.0	5,579.0	5,856.6	5,634.2	22.1	27.3	-45.29	158.1	1,316.9	310.5	270.6	39.90	7.782	
5,800.0	5,676.4	5,952.8	5,730.3	22.5	27.4	-48.49	158.0	1,315.5	293.9	253.7	40.18	7.314	
5,900.0	5,773.9	6,048.0	5,825.5	22.9	27.5	-51.78	157.7	1,315.5	279.0	238.6	40.42	6.902	
6,000.0	5,871.3	6,144.4	5,922.0	23.4	27.5	-55.35	157.6	1,316.2	265.7	225.2	40.58	6.549	
6,100.0	5,968.7	6,241.0	6,018.5	23.8	27.6	-59.35	158.0	1,316.8	254.1	213.5	40.63	6.253	
6,200.0	6,066.2	6,338.4	6,116.0	24.3	27.7	-63.71	158.5	1,317.6	244.1	203.5	40.58	6.014	
6,300.0	6,163.6	6,436.2	6,213.7	24.7	27.7	-68.31	158.9	1,318.8	235.6	195.2	40.41	5.830	
6,400.0	6,261.1	6,534.2	6,311.7	25.1	27.8	-73.27	159.2	1,319.8	228.7	188.6	40.12	5.701	
6,500.0	6,358.5	6,632.1	6,409.6	25.6	27.9	-78.55	159.5	1,320.4	223.6	183.9	39.73	5.628	
6,600.0	6,455.9	6,729.9	6,507.4	26.0	27.9	-84.02	159.8	1,321.1	220.4	181.1	39.33	5.604	
6,700.0	6,553.4	6,827.8	6,605.3	26.5	28.0	-89.58	159.8	1,321.8	219.3	180.2	39.03	5.619 ES	
6,707.5	6,560.7	6,835.1	6,612.7	26.5	28.0	-89.99	159.8	1,321.8	219.3	180.3	39.01	5.621 CC	
6,800.0	6,650.8	6,925.8	6,703.3	26.9	28.1	-95.12	159.8	1,322.6	220.1	181.2	38.92	5.656	
6,900.0	6,748.3	7,023.6	6,801.1	27.3	28.2	-100.54	159.6	1,323.5	223.0	183.9	39.06	5.709	
7,000.0	6,845.7	7,121.8	6,899.3	27.8	28.3	-105.80	159.3	1,324.4	227.7	188.3	39.43	5.775	
7,100.0	6,943.1	7,221.4	6,998.9	28.2	28.4	-110.85	158.5	1,325.7	233.8	193.8	39.97	5.849	
7,200.0	7,040.6	7,319.3	7,096.8	28.6	28.5	-115.56	157.1	1,327.2	241.0	200.4	40.59	5.936	
7,300.0	7,138.0	7,415.0	7,192.5	29.1	28.5	-119.95	156.1	1,328.1	250.2	209.0	41.22	6.072	
7,341.8	7,178.7	7,454.9	7,232.4	29.3	28.6	-121.71	155.8	1,328.2	254.8	213.3	41.47	6.145	
7,350.0	7,186.7	7,462.7	7,240.2	29.3	28.6	-118.46	155.8	1,328.2	255.7	214.2	41.55	6.154	
7,400.0	7,235.4	7,510.3	7,287.7	29.5	28.6	-100.24	155.5	1,328.1	259.3	217.4	41.99	6.176	
7,450.0	7,283.6	7,557.3	7,334.7	29.7	28.7	-87.28	155.3	1,327.8	260.1	217.8	42.34	6.144	
7,500.0	7,331.0	7,603.4	7,380.8	29.9	28.7	-79.81	155.1	1,327.1	258.4	215.8	42.60	6.066	
7,550.0	7,377.4	7,649.2	7,426.6	30.1	28.7	-76.54	155.0	1,326.3	254.7	211.9	42.81	5.950	
7,600.0	7,422.2	7,694.3	7,471.7	30.3	28.8	-76.28	154.9	1,325.6	249.4	206.5	42.96	5.806	
7,650.0	7,465.2	7,737.6	7,515.0	30.5	28.8	-78.14	154.8	1,325.0	243.4	200.3	43.07	5.652	
7,700.0	7,506.0	7,778.7	7,556.2	30.7	28.8	-81.50	154.8	1,324.6	237.7	194.6	43.13	5.511	
7,750.0	7,544.4	7,817.3	7,594.7	30.9	28.9	-85.78	154.7	1,324.2	233.6	190.4	43.15	5.412	
7,789.3	7,572.6	7,845.5	7,622.9	31.1	28.9	-89.41	154.7	1,324.0	232.4	189.2	43.16	5.385 SF	
7,800.0	7,580.0	7,852.9	7,630.3	31.1	28.9	-90.41	154.7	1,323.9	232.5	189.3	43.16	5.387	
7,850.0	7,612.6	7,885.6	7,663.0	31.3	28.9	-94.89	154.7	1,323.7	235.8	192.7	43.13	5.467	
7,900.0	7,641.9	7,915.1	7,692.5	31.5	28.9	-98.75	154.8	1,323.5	244.6	201.5	43.08	5.678	
7,950.0	7,667.7	7,941.2	7,718.6	31.7	29.0	-101.65	154.9	1,323.4	259.3	216.2	43.03	6.026	
8,000.0	7,689.8	7,963.7	7,741.1	32.0	29.0	-103.35	155.0	1,323.3	279.9	236.8	43.08	6.497	
8,050.0	7,708.0	7,982.3	7,759.7	32.2	29.0	-103.68	155.1	1,323.2	305.9	262.5	43.35	7.056	
8,100.0	7,722.3	7,996.8	7,774.2	32.4	29.0	-102.51	155.1	1,323.1	336.5	292.6	43.89	7.668	
8,150.0	7,732.4	8,007.3	7,784.7	32.7	29.0	-99.77	155.2	1,323.1	370.9	326.2	44.64	8.308	
8,200.0	7,738.3	8,013.5	7,790.9	33.0	29.0	-95.41	155.2	1,323.0	408.2	362.8	45.40	8.990	
8,244.9	7,740.0	8,015.5	7,792.9	33.2	29.0	-90.19	155.2	1,323.0	443.4	397.6	45.78	9.686	
8,300.0	7,740.0	8,015.8	7,793.2	33.5	29.0	-90.26	155.2	1,323.0	488.7	442.3	46.40	10.532	
8,400.0	7,740.0	8,016.3	7,793.8	34.1	29.0	-90.38	155.2	1,323.0	575.2	527.6	47.60	12.084	
8,500.0	7,740.0	8,016.9	7,794.3	34.8	29.0	-90.50	155.3	1,323.0	665.5	616.6	48.88	13.614	
8,600.0	7,740.0	8,017.5	7,794.9	35.6	29.0	-90.62	155.3	1,323.0	758.2	708.0	50.23	15.094	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,700.0	7,740.0	8,018.0	7,795.4	36.5	29.0	-90.74	155.3	1,323.0	852.6	800.9	51.63	16.512		
8,800.0	7,740.0	8,018.6	7,796.0	37.4	29.0	-90.86	155.3	1,323.0	948.1	895.0	53.08	17.861		
8,900.0	7,740.0	8,019.1	7,796.5	38.3	29.0	-90.98	155.3	1,323.0	1,044.5	989.9	54.57	19.140		
9,000.0	7,740.0	8,019.7	7,797.1	39.4	29.0	-91.10	155.3	1,323.0	1,141.4	1,085.4	56.09	20.351		
9,100.0	7,740.0	8,020.3	7,797.7	40.4	29.0	-91.22	155.3	1,323.0	1,238.9	1,181.3	57.63	21.497		
9,200.0	7,740.0	8,020.8	7,798.2	41.6	29.0	-91.35	155.3	1,323.0	1,336.8	1,277.6	59.20	22.581		
9,300.0	7,740.0	8,021.4	7,798.8	42.7	29.0	-91.47	155.3	1,323.0	1,434.9	1,374.1	60.78	23.607		
9,400.0	7,740.0	8,022.0	7,799.4	43.9	29.0	-91.59	155.3	1,323.0	1,533.3	1,470.9	62.38	24.578		
9,500.0	7,740.0	8,022.5	7,799.9	45.2	29.0	-91.71	155.3	1,323.0	1,631.9	1,567.9	64.00	25.498		
9,600.0	7,740.0	8,023.1	7,800.5	46.4	29.0	-91.83	155.3	1,323.0	1,730.6	1,665.0	65.63	26.370		
9,700.0	7,740.0	8,023.7	7,801.1	47.7	29.0	-91.96	155.3	1,323.0	1,829.5	1,762.2	67.26	27.198		
9,800.0	7,740.0	8,024.2	7,801.7	49.1	29.0	-92.08	155.3	1,323.0	1,928.5	1,859.6	68.91	27.985		
9,900.0	7,740.0	8,024.8	7,802.2	50.4	29.0	-92.20	155.3	1,323.0	2,027.6	1,957.0	70.57	28.733		
10,000.0	7,740.0	8,025.4	7,802.8	51.8	29.0	-92.33	155.3	1,323.0	2,126.7	2,054.5	72.23	29.445		
10,100.0	7,740.0	8,026.0	7,803.4	53.2	29.0	-92.45	155.3	1,323.0	2,226.0	2,152.1	73.89	30.124		
10,200.0	7,740.0	8,026.5	7,804.0	54.6	29.0	-92.58	155.3	1,323.0	2,325.3	2,249.7	75.57	30.772		
10,300.0	7,740.0	8,027.1	7,804.5	56.1	29.0	-92.70	155.3	1,323.0	2,424.7	2,347.4	77.24	31.390		
10,400.0	7,740.0	8,027.7	7,805.1	57.6	29.0	-92.82	155.3	1,323.0	2,524.1	2,445.2	78.92	31.981		
10,500.0	7,740.0	8,028.3	7,805.7	59.0	29.0	-92.95	155.3	1,323.0	2,623.6	2,542.9	80.61	32.547		
10,600.0	7,740.0	8,028.9	7,806.3	60.5	29.0	-93.07	155.3	1,323.0	2,723.1	2,640.8	82.30	33.089		
10,700.0	7,740.0	8,029.4	7,806.9	62.0	29.0	-93.20	155.3	1,323.0	2,822.6	2,738.6	83.99	33.608		
10,800.0	7,740.0	8,030.0	7,807.4	63.5	29.0	-93.32	155.3	1,323.0	2,922.2	2,836.5	85.68	34.106		
10,900.0	7,740.0	8,030.6	7,808.0	65.1	29.0	-93.45	155.3	1,323.0	3,021.8	2,934.4	87.37	34.584		
11,000.0	7,740.0	8,031.2	7,808.6	66.6	29.0	-93.58	155.3	1,323.0	3,121.4	3,032.3	89.07	35.044		
11,100.0	7,740.0	8,031.8	7,809.2	68.2	29.0	-93.70	155.3	1,323.0	3,221.0	3,130.3	90.77	35.486		
11,200.0	7,740.0	8,032.4	7,809.8	69.7	29.0	-93.83	155.3	1,323.0	3,320.7	3,228.2	92.47	35.912		
11,300.0	7,740.0	8,033.0	7,810.4	71.3	29.0	-93.95	155.3	1,323.0	3,420.4	3,326.2	94.17	36.322		
11,400.0	7,740.0	8,033.5	7,811.0	72.9	29.0	-94.08	155.3	1,322.9	3,520.1	3,424.2	95.87	36.717		
11,500.0	7,740.0	8,034.1	7,811.6	74.5	29.0	-94.21	155.3	1,322.9	3,619.8	3,522.2	97.57	37.098		
11,600.0	7,740.0	8,034.7	7,812.1	76.1	29.0	-94.33	155.4	1,322.9	3,719.6	3,620.3	99.28	37.467		
11,700.0	7,740.0	8,035.3	7,812.7	77.7	29.0	-94.46	155.4	1,322.9	3,819.3	3,718.3	100.98	37.822		
11,800.0	7,740.0	8,035.9	7,813.3	79.3	29.0	-94.59	155.4	1,322.9	3,919.1	3,816.4	102.68	38.166		
11,900.0	7,740.0	8,036.5	7,813.9	80.9	29.0	-94.72	155.4	1,322.9	4,018.8	3,914.4	104.39	38.499		
12,000.0	7,740.0	8,037.1	7,814.5	82.5	29.0	-94.85	155.4	1,322.9	4,118.6	4,012.5	106.09	38.821		
12,100.0	7,740.0	8,037.7	7,815.1	84.2	29.0	-94.97	155.4	1,322.9	4,218.4	4,110.6	107.80	39.133		
12,200.0	7,740.0	8,038.3	7,815.7	85.8	29.0	-95.10	155.4	1,322.9	4,318.2	4,208.7	109.50	39.436		
12,300.0	7,740.0	8,038.9	7,816.3	87.4	29.0	-95.23	155.4	1,322.9	4,418.0	4,306.8	111.20	39.729		
12,400.0	7,740.0	8,039.5	7,816.9	89.1	29.0	-95.36	155.4	1,322.9	4,517.9	4,404.9	112.91	40.014		
12,500.0	7,740.0	8,040.1	7,817.5	90.7	29.0	-95.49	155.4	1,322.9	4,617.7	4,503.1	114.61	40.290		
12,600.0	7,740.0	8,040.7	7,818.1	92.4	29.0	-95.62	155.4	1,322.9	4,717.5	4,601.2	116.31	40.559		
12,700.0	7,740.0	8,041.3	7,818.8	94.0	29.0	-95.75	155.4	1,322.9	4,817.4	4,699.3	118.02	40.820		
12,800.0	7,740.0	8,041.9	7,819.4	95.7	29.0	-95.88	155.4	1,322.9	4,917.2	4,797.5	119.72	41.074		
12,900.0	7,740.0	8,042.6	7,820.0	97.3	29.0	-96.01	155.4	1,322.9	5,017.1	4,895.6	121.42	41.321		
13,000.0	7,740.0	8,043.2	7,820.6	99.0	29.0	-96.14	155.4	1,322.9	5,116.9	4,993.8	123.12	41.561		
13,100.0	7,740.0	8,043.8	7,821.2	100.7	29.0	-96.27	155.4	1,322.9	5,216.8	5,092.0	124.82	41.796		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
0.0	0.0	103.2	103.2	0.0	0.2	34.99	1,584.6	1,109.0	1,934.8					
100.0	100.0	301.3	301.0	0.2	0.6	35.03	1,575.3	1,104.5	1,929.7	1,928.9	0.74	2,602.966		
200.0	200.0	500.4	498.9	0.3	1.1	35.25	1,554.5	1,098.5	1,919.4	1,918.0	1.43	1,338.209		
250.0	250.0	550.4	548.4	0.4	1.3	35.33	1,547.6	1,097.1	1,913.0	1,911.3	1.67	1,148.338		
300.0	300.0	613.3	610.6	0.5	1.5	-64.60	1,538.5	1,095.9	1,906.4	1,904.8	1.62	1,174.178		
400.0	400.0	754.0	749.2	0.7	1.9	-64.45	1,514.2	1,093.4	1,890.4	1,888.3	2.11	896.253		
500.0	499.9	868.0	861.0	0.9	2.4	-64.36	1,492.4	1,091.9	1,872.5	1,869.9	2.56	732.432		
600.0	599.8	940.8	932.6	1.1	2.6	-64.40	1,478.9	1,091.4	1,854.7	1,851.7	2.92	636.012		
700.0	699.5	1,083.9	1,073.0	1.3	3.2	-64.37	1,451.4	1,090.5	1,835.9	1,832.4	3.46	529.852		
800.0	799.2	1,307.3	1,289.8	1.5	4.2	-64.29	1,398.0	1,085.1	1,811.5	1,807.2	4.27	424.501		
900.0	898.6	1,444.6	1,421.2	1.7	4.9	-64.35	1,358.5	1,079.9	1,781.4	1,776.5	4.88	365.155		
1,000.0	997.9	1,569.7	1,540.0	2.0	5.6	-64.47	1,319.7	1,075.0	1,748.9	1,743.4	5.49	318.548		
1,100.0	1,096.9	1,701.9	1,664.7	2.3	6.4	-64.63	1,276.2	1,069.6	1,714.1	1,707.9	6.16	278.428		
1,200.0	1,195.7	1,889.1	1,838.2	2.6	7.7	-64.71	1,206.3	1,060.3	1,674.3	1,667.2	7.06	237.042		
1,300.0	1,294.1	1,994.7	1,934.4	2.9	8.5	-64.93	1,163.3	1,055.4	1,631.4	1,623.7	7.73	211.039		
1,400.0	1,392.3	2,100.4	2,030.3	3.3	9.3	-65.22	1,119.1	1,049.7	1,586.8	1,578.4	8.41	188.577		
1,500.0	1,490.1	2,221.0	2,138.7	3.7	10.3	-65.50	1,066.6	1,044.1	1,540.5	1,531.3	9.20	167.384		
1,600.0	1,587.5	2,340.5	2,244.4	4.1	11.2	-65.82	1,011.3	1,037.9	1,490.9	1,480.9	10.00	149.048		
1,700.0	1,684.6	2,420.1	2,315.0	4.5	11.9	-66.32	974.6	1,033.0	1,440.6	1,429.9	10.64	135.387		
1,750.0	1,732.9	2,458.7	2,349.2	4.8	12.2	-66.61	957.1	1,030.5	1,415.3	1,404.4	10.96	129.188		
1,800.0	1,781.2	2,494.1	2,380.7	5.0	12.5	-64.63	941.1	1,028.4	1,390.1	1,378.8	11.29	123.130		
1,900.0	1,877.8	2,561.7	2,441.2	5.5	13.0	-60.62	911.0	1,024.7	1,339.3	1,327.4	11.94	112.187		
1,981.2	1,956.2	2,632.0	2,504.3	5.9	13.6	-57.38	880.4	1,020.6	1,297.6	1,285.1	12.49	103.865		
2,000.0	1,974.4	2,648.3	2,519.0	6.0	13.7	-57.30	873.4	1,019.5	1,287.9	1,275.2	12.64	101.869		
2,100.0	2,071.3	2,735.0	2,596.9	6.4	14.4	-56.78	835.8	1,013.9	1,236.3	1,222.9	13.44	91.963		
2,181.5	2,150.7	2,788.8	2,645.3	6.7	14.8	-56.29	812.5	1,011.1	1,195.4	1,181.4	14.04	85.128		
2,200.0	2,168.6	2,800.5	2,655.9	6.8	14.9	-56.27	807.4	1,010.6	1,186.4	1,172.2	14.16	83.784		
2,300.0	2,266.1	2,921.8	2,765.0	7.3	15.8	-56.01	754.9	1,004.1	1,136.7	1,121.7	15.01	75.725		
2,400.0	2,363.5	3,004.1	2,838.7	7.7	16.5	-55.86	718.7	998.3	1,085.5	1,069.8	15.70	69.124		
2,500.0	2,461.0	3,093.9	2,919.2	8.1	17.2	-55.74	679.6	991.2	1,034.1	1,017.7	16.40	63.052		
2,600.0	2,558.4	3,172.0	2,989.4	8.6	17.8	-55.66	646.1	984.8	983.0	965.9	17.05	57.647		
2,700.0	2,655.8	3,273.1	3,080.1	9.0	18.6	-55.53	602.1	976.1	931.3	913.5	17.80	52.319		
2,800.0	2,753.3	3,346.0	3,145.3	9.4	19.2	-55.36	570.0	970.6	879.7	861.2	18.47	47.623		
2,900.0	2,850.7	3,445.3	3,234.0	9.9	20.0	-55.12	526.1	962.9	827.9	808.6	19.24	43.027		
3,000.0	2,948.2	3,521.0	3,301.6	10.3	20.6	-54.89	492.4	957.1	776.0	756.1	19.94	38.916		
3,100.0	3,045.6	3,605.0	3,376.6	10.7	21.3	-54.52	455.1	951.7	724.8	704.1	20.71	35.000		
3,200.0	3,143.0	3,696.1	3,458.1	11.2	22.0	-54.10	414.7	945.4	673.5	652.0	21.50	31.330		
3,300.0	3,240.5	3,779.8	3,533.1	11.6	22.6	-53.81	378.3	938.4	622.0	599.8	22.22	27.992		
3,400.0	3,337.9	3,857.3	3,603.1	12.0	23.2	-53.65	345.8	931.2	571.2	548.3	22.87	24.975		
3,500.0	3,435.3	3,939.9	3,678.3	12.5	23.8	-53.58	312.6	923.4	521.4	497.9	23.52	22.165		
3,600.0	3,532.8	4,023.4	3,754.4	12.9	24.4	-53.40	278.9	916.4	472.2	448.0	24.22	19.495		
3,700.0	3,630.2	4,113.3	3,836.1	13.3	25.1	-52.98	242.0	909.9	423.3	398.3	25.01	16.923		
3,800.0	3,727.7	4,196.5	3,911.4	13.8	25.8	-52.26	207.1	904.7	374.1	348.3	25.88	14.459		
3,900.0	3,825.1	4,282.9	3,989.4	14.2	26.4	-50.92	170.2	901.4	326.0	299.1	26.90	12.118		
4,000.0	3,922.5	4,368.0	4,066.4	14.6	27.1	-49.20	134.1	898.1	278.2	250.2	28.00	9.935		
4,100.0	4,020.0	4,463.0	4,152.1	15.1	27.8	-46.32	93.2	894.4	230.4	200.9	29.42	7.830		
4,200.0	4,117.4	4,553.6	4,232.2	15.5	28.6	-41.34	51.0	889.8	180.0	148.7	31.22	5.764		
4,300.0	4,214.9	4,637.9	4,306.3	16.0	29.3	-33.23	11.2	884.8	130.2	96.9	33.38	3.902		
4,400.0	4,312.3	4,720.7	4,379.9	16.4	30.0	-18.23	-26.5	880.2	86.0	50.2	35.79	2.403		
4,500.0	4,409.7	4,807.5	4,458.6	16.8	30.6	12.07	-62.9	876.6	56.7	18.7	38.00	1.493 Level 3		
4,546.4	4,454.9	4,849.1	4,496.8	17.0	30.9	31.94	-79.1	875.0	52.8	14.3	38.49	1.373 Level 3, CC, ES, SF		
4,600.0	4,507.2	4,897.9	4,542.1	17.3	31.2	54.34	-97.4	873.1	57.7	21.6	36.10	1.598		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 41-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,700.0	4,604.6	4,991.0	4,629.3	17.7	31.8	82.60	-129.6	869.1	83.2	54.4	28.84	2.886	
4,800.0	4,702.0	5,084.3	4,717.6	18.1	32.3	97.21	-159.4	864.4	116.5	89.9	26.65	4.372	
4,900.0	4,799.5	5,182.8	4,811.8	18.6	32.8	105.71	-187.9	860.1	150.6	122.7	27.96	5.387	
5,000.0	4,896.9	5,282.5	4,908.3	19.0	33.2	111.44	-212.7	856.3	182.7	152.9	29.84	6.124	
5,100.0	4,994.4	5,386.5	5,010.1	19.4	33.6	116.00	-233.7	853.0	211.5	179.9	31.67	6.680	
5,200.0	5,091.8	5,486.2	5,108.3	19.9	33.9	119.60	-250.6	850.4	238.2	204.9	33.25	7.162	
5,300.0	5,189.2	5,590.3	5,211.2	20.3	34.2	122.93	-265.7	847.5	263.7	229.0	34.74	7.592	
5,400.0	5,286.7	5,692.1	5,312.4	20.8	34.4	126.13	-276.2	844.6	286.6	250.5	36.12	7.937	
5,500.0	5,384.1	5,798.3	5,418.3	21.2	34.6	129.32	-284.1	841.6	308.2	270.8	37.41	8.237	
5,600.0	5,481.6	5,902.7	5,522.6	21.6	34.7	132.26	-288.7	839.8	327.5	289.0	38.56	8.493	
5,700.0	5,579.0	6,004.1	5,624.0	22.1	34.8	135.06	-290.9	838.0	346.0	306.4	39.58	8.741	
5,800.0	5,676.4	6,103.9	5,723.7	22.5	34.8	137.78	-291.0	836.2	364.0	323.5	40.49	8.988	
5,900.0	5,773.9	6,200.9	5,820.7	22.9	34.9	140.20	-290.9	834.5	382.4	341.1	41.28	9.263	
6,000.0	5,871.3	6,297.6	5,917.4	23.4	34.9	142.37	-290.9	832.8	401.5	359.6	41.98	9.565	
6,100.0	5,968.7	6,394.8	6,014.6	23.8	35.0	144.34	-291.1	831.1	421.2	378.6	42.60	9.888	
6,200.0	6,066.2	6,492.4	6,112.1	24.3	35.1	146.14	-291.2	829.6	441.3	398.1	43.16	10.225	
6,300.0	6,163.6	6,592.9	6,212.7	24.7	35.1	147.83	-291.1	828.3	461.3	417.6	43.66	10.564	
6,400.0	6,261.1	6,692.4	6,312.2	25.1	35.2	149.38	-290.5	827.6	480.9	436.8	44.13	10.897	
6,500.0	6,358.5	6,788.6	6,408.4	25.6	35.2	150.74	-290.1	827.1	500.8	456.2	44.55	11.240	
6,600.0	6,455.9	6,885.0	6,504.7	26.0	35.3	151.98	-289.9	826.4	521.2	476.2	44.95	11.595	
6,700.0	6,553.4	6,981.4	6,601.2	26.5	35.3	153.12	-289.9	825.6	541.9	496.6	45.32	11.957	
6,800.0	6,650.8	7,077.3	6,697.0	26.9	35.4	154.17	-290.0	824.8	563.0	517.4	45.68	12.327	
6,900.0	6,748.3	7,172.8	6,792.5	27.3	35.5	155.13	-290.2	823.6	584.6	538.6	46.01	12.706	
7,000.0	6,845.7	7,269.1	6,888.9	27.8	35.5	156.04	-290.5	822.3	606.6	560.2	46.33	13.091	
7,100.0	6,943.1	7,365.7	6,985.4	28.2	35.6	156.89	-290.8	820.8	628.7	582.1	46.64	13.480	
7,200.0	7,040.6	7,461.8	7,081.5	28.6	35.7	157.69	-291.0	819.2	651.2	604.2	46.94	13.872	
7,300.0	7,138.0	7,558.1	7,177.8	29.1	35.7	158.46	-291.1	817.5	673.8	626.6	47.23	14.268	
7,341.8	7,178.7	7,598.8	7,218.4	29.3	35.8	158.77	-291.1	816.7	683.3	636.0	47.35	14.433	
7,350.0	7,186.7	7,606.7	7,226.4	29.3	35.8	162.56	-291.1	816.5	685.2	637.9	47.33	14.479	
7,400.0	7,235.4	7,655.3	7,275.0	29.5	35.8	-175.72	-291.1	815.6	697.6	650.4	47.16	14.791	
7,450.0	7,283.6	7,703.4	7,323.1	29.7	35.8	-158.85	-291.0	814.7	711.2	664.3	46.96	15.145	
7,500.0	7,331.0	7,750.9	7,370.6	29.9	35.9	-147.02	-290.9	813.8	726.1	679.4	46.73	15.538	
7,550.0	7,377.4	7,797.4	7,417.0	30.1	35.9	-138.80	-290.7	812.9	742.3	695.8	46.49	15.966	
7,600.0	7,422.2	7,842.4	7,462.1	30.3	35.9	-132.91	-290.5	812.0	759.7	713.5	46.26	16.424	
7,650.0	7,465.2	7,885.7	7,505.3	30.5	35.9	-128.51	-290.2	811.1	778.5	732.4	46.04	16.908	
7,700.0	7,506.0	7,929.2	7,548.8	30.7	36.0	-125.15	-289.9	810.4	798.6	752.8	45.87	17.410	
7,750.0	7,544.4	7,970.2	7,589.8	30.9	36.0	-122.39	-289.6	809.7	820.2	774.4	45.78	17.916	
7,800.0	7,580.0	8,008.3	7,628.0	31.1	36.0	-119.97	-289.2	809.3	843.2	797.4	45.81	18.407	
7,850.0	7,612.6	8,043.4	7,663.0	31.3	36.0	-117.68	-288.9	809.0	867.9	821.9	46.02	18.860	
7,900.0	7,641.9	8,074.4	7,694.0	31.5	36.0	-115.33	-288.6	808.8	894.2	847.7	46.46	19.247	
7,950.0	7,667.7	8,101.1	7,720.7	31.7	36.1	-112.77	-288.3	808.6	922.2	875.0	47.17	19.551	
8,000.0	7,689.8	8,124.1	7,743.7	32.0	36.1	-109.94	-288.1	808.5	951.8	903.7	48.12	19.780	
8,050.0	7,708.0	8,143.1	7,762.7	32.2	36.1	-106.76	-287.9	808.4	983.0	933.7	49.26	19.956	
8,100.0	7,722.3	8,158.1	7,777.7	32.4	36.1	-103.16	-287.7	808.3	1,015.5	965.0	50.46	20.124	
8,150.0	7,732.4	8,168.9	7,788.5	32.7	36.1	-99.13	-287.6	808.3	1,049.3	997.7	51.57	20.347	
8,200.0	7,738.3	8,175.5	7,795.1	33.0	36.1	-94.68	-287.5	808.2	1,084.0	1,031.6	52.37	20.698	
8,244.9	7,740.0	8,177.7	7,797.3	33.2	36.1	-90.39	-287.5	808.2	1,115.7	1,063.1	52.67	21.183	
8,300.0	7,740.0	8,178.2	7,797.8	33.5	36.1	-90.43	-287.5	808.2	1,155.7	1,102.4	53.29	21.686	
8,400.0	7,740.0	8,179.3	7,798.9	34.1	36.1	-90.50	-287.5	808.2	1,231.1	1,176.6	54.49	22.593	
8,500.0	7,740.0	8,180.3	7,799.9	34.8	36.1	-90.58	-287.5	808.2	1,309.8	1,254.1	55.77	23.486	
8,600.0	7,740.0	8,181.4	7,801.0	35.6	36.1	-90.66	-287.5	808.2	1,391.3	1,334.2	57.12	24.357	
8,700.0	7,740.0	8,182.4	7,802.0	36.5	36.1	-90.73	-287.5	808.2	1,475.0	1,416.5	58.52	25.205	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 41-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)			
8,800.0	7,740.0	8,183.5	7,803.1	37.4	36.1	-90.81	-287.5	808.2	1,560.7	1,500.7	59.97	26.024	
8,900.0	7,740.0	8,184.5	7,804.1	38.3	36.1	-90.89	-287.4	808.2	1,647.9	1,586.5	61.46	26.815	
9,000.0	7,740.0	8,185.5	7,805.1	39.4	36.1	-90.96	-287.4	808.2	1,736.6	1,673.6	62.97	27.576	
9,100.0	7,740.0	8,186.6	7,806.2	40.4	36.1	-91.04	-287.4	808.2	1,826.4	1,761.9	64.52	28.308	
9,200.0	7,740.0	8,187.6	7,807.2	41.6	36.1	-91.11	-287.4	808.2	1,917.2	1,851.1	66.09	29.011	
9,300.0	7,740.0	8,188.7	7,808.3	42.7	36.1	-91.19	-287.4	808.2	2,008.9	1,941.2	67.67	29.687	
9,400.0	7,740.0	8,189.7	7,809.3	43.9	36.1	-91.27	-287.4	808.2	2,101.4	2,032.1	69.27	30.335	
9,500.0	7,740.0	8,190.8	7,810.4	45.2	36.1	-91.34	-287.4	808.2	2,194.5	2,123.6	70.89	30.956	
9,600.0	7,740.0	8,191.8	7,811.4	46.4	36.1	-91.42	-287.4	808.2	2,288.2	2,215.7	72.52	31.553	
9,700.0	7,740.0	8,192.9	7,812.4	47.7	36.1	-91.50	-287.4	808.2	2,382.4	2,308.2	74.16	32.126	
9,800.0	7,740.0	8,193.9	7,813.5	49.1	36.1	-91.57	-287.3	808.2	2,477.0	2,401.2	75.81	32.676	
9,900.0	7,740.0	8,194.9	7,814.5	50.4	36.1	-91.65	-287.3	808.2	2,572.1	2,494.7	77.46	33.205	
10,000.0	7,740.0	8,196.0	7,815.6	51.8	36.1	-91.72	-287.3	808.2	2,667.5	2,588.4	79.13	33.713	
10,100.0	7,740.0	8,197.0	7,816.6	53.2	36.1	-91.80	-287.3	808.2	2,763.3	2,682.5	80.80	34.201	
10,200.0	7,740.0	8,198.1	7,817.7	54.6	36.1	-91.88	-287.3	808.2	2,859.3	2,776.9	82.47	34.670	
10,300.0	7,740.0	8,199.1	7,818.7	56.1	36.1	-91.95	-287.3	808.2	2,955.6	2,871.5	84.15	35.122	
10,400.0	7,740.0	8,200.1	7,819.7	57.6	36.1	-92.03	-287.3	808.2	3,052.2	2,966.3	85.84	35.557	
10,500.0	7,740.0	8,201.2	7,820.8	59.0	36.1	-92.11	-287.3	808.2	3,148.9	3,061.4	87.53	35.977	
10,600.0	7,740.0	8,202.2	7,821.8	60.5	36.1	-92.18	-287.3	808.2	3,245.9	3,156.7	89.22	36.381	
10,700.0	7,740.0	8,203.3	7,822.9	62.0	36.1	-92.26	-287.2	808.2	3,343.0	3,252.1	90.92	36.770	
10,800.0	7,740.0	8,204.3	7,823.9	63.5	36.1	-92.33	-287.2	808.1	3,440.3	3,347.7	92.61	37.146	
10,900.0	7,740.0	8,205.4	7,825.0	65.1	36.1	-92.41	-287.2	808.1	3,537.7	3,443.4	94.32	37.509	
11,000.0	7,740.0	8,206.4	7,826.0	66.6	36.1	-92.49	-287.2	808.1	3,635.3	3,539.3	96.02	37.860	
11,100.0	7,740.0	8,207.4	7,827.0	68.2	36.1	-92.56	-287.2	808.1	3,733.0	3,635.3	97.73	38.199	
11,200.0	7,740.0	8,208.5	7,828.1	69.7	36.1	-92.64	-287.2	808.1	3,830.9	3,731.4	99.43	38.527	
11,300.0	7,740.0	8,209.5	7,829.1	71.3	36.1	-92.71	-287.2	808.1	3,928.8	3,827.7	101.14	38.844	
11,400.0	7,740.0	8,210.6	7,830.2	72.9	36.1	-92.79	-287.2	808.1	4,026.8	3,924.0	102.85	39.151	
11,500.0	7,740.0	8,211.6	7,831.2	74.5	36.1	-92.87	-287.2	808.1	4,125.0	4,020.4	104.57	39.448	
11,600.0	7,740.0	8,212.6	7,832.2	76.1	36.1	-92.94	-287.2	808.1	4,223.2	4,116.9	106.28	39.737	
11,700.0	7,740.0	8,213.7	7,833.3	77.7	36.1	-93.02	-287.1	808.1	4,321.5	4,213.5	107.99	40.016	
11,800.0	7,740.0	8,214.7	7,834.3	79.3	36.1	-93.09	-287.1	808.1	4,419.9	4,310.2	109.71	40.287	
11,900.0	7,740.0	8,215.8	7,835.4	80.9	36.1	-93.17	-287.1	808.1	4,518.3	4,406.9	111.43	40.550	
12,000.0	7,740.0	8,216.8	7,836.4	82.5	36.1	-93.25	-287.1	808.1	4,616.8	4,503.7	113.14	40.805	
12,100.0	7,740.0	8,217.8	7,837.4	84.2	36.1	-93.32	-287.1	808.1	4,715.4	4,600.6	114.86	41.052	
12,200.0	7,740.0	8,218.9	7,838.5	85.8	36.1	-93.40	-287.1	808.1	4,814.0	4,697.5	116.58	41.293	
12,300.0	7,740.0	8,219.9	7,839.5	87.4	36.1	-93.47	-287.1	808.1	4,912.7	4,794.4	118.30	41.527	
12,400.0	7,740.0	8,221.0	7,840.6	89.1	36.1	-93.55	-287.1	808.1	5,011.5	4,891.5	120.02	41.755	
12,500.0	7,740.0	8,222.0	7,841.6	90.7	36.1	-93.62	-287.1	808.1	5,110.3	4,988.5	121.74	41.976	
12,600.0	7,740.0	8,223.1	7,842.6	92.4	36.1	-93.70	-287.0	808.1	5,209.1	5,085.6	123.46	42.192	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU										Offset Site Error:		0.0 ft	
Survey Program: 71-Geolink MWD										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
0.0	0.0	49.8	49.8	0.0	0.1	34.51	1,615.6	1,110.8	1,960.6				
100.0	100.0	125.8	125.8	0.2	0.2	34.52	1,615.8	1,111.2	1,961.2	1,960.9	0.37	5,265.539	
200.0	200.0	191.0	191.0	0.3	0.3	34.54	1,616.5	1,112.6	1,963.4	1,962.7	0.66	2,953.706	
250.0	250.0	220.7	220.7	0.4	0.4	34.56	1,617.1	1,113.7	1,965.2	1,964.4	0.81	2,433.989	
300.0	300.0	254.0	253.9	0.5	0.5	-65.41	1,617.9	1,115.3	1,967.4	1,966.5	0.95	2,073.874	
400.0	400.0	309.0	308.8	0.7	0.6	-65.33	1,619.9	1,118.6	1,972.9	1,971.7	1.23	1,609.362	
500.0	499.9	345.0	344.6	0.9	0.7	-65.26	1,621.5	1,121.2	1,980.0	1,978.5	1.47	1,345.297	
600.0	599.8	437.0	436.1	1.1	0.9	-65.22	1,627.8	1,129.3	1,988.4	1,986.6	1.83	1,087.560	
700.0	699.5	470.6	469.3	1.3	1.0	-65.17	1,630.9	1,132.7	1,998.3	1,996.2	2.09	956.019	
800.0	799.2	529.0	527.0	1.5	1.2	-65.14	1,637.2	1,139.4	2,010.0	2,007.6	2.41	834.555	
900.0	898.6	580.3	577.5	1.7	1.4	-65.11	1,643.6	1,146.0	2,023.2	2,020.4	2.73	739.941	
1,000.0	997.9	642.7	638.6	2.0	1.6	-65.10	1,652.2	1,154.9	2,037.6	2,034.5	3.10	657.828	
1,100.0	1,096.9	718.8	713.0	2.3	1.9	-65.15	1,663.5	1,166.5	2,052.7	2,049.2	3.51	585.267	
1,200.0	1,195.7	802.3	792.9	2.6	2.6	-65.58	1,689.3	1,191.7	2,065.8	2,061.6	4.14	499.061	
1,300.0	1,294.1	998.5	987.6	2.9	2.9	-65.82	1,700.9	1,203.6	2,075.7	2,071.1	4.64	447.700	
1,400.0	1,392.3	1,062.9	1,051.0	3.3	3.2	-65.96	1,709.0	1,212.3	2,086.1	2,081.0	5.10	408.956	
1,500.0	1,490.1	1,120.0	1,106.8	3.7	3.4	-66.07	1,717.0	1,220.9	2,097.9	2,092.3	5.58	376.004	
1,600.0	1,587.5	1,192.0	1,177.0	4.1	3.7	-66.26	1,728.0	1,232.5	2,110.6	2,104.5	6.11	345.248	
1,700.0	1,684.6	1,272.5	1,255.4	4.5	4.1	-66.53	1,741.1	1,245.5	2,123.7	2,117.0	6.70	317.125	
1,750.0	1,732.9	1,319.5	1,301.0	4.8	4.3	-66.70	1,748.9	1,253.2	2,130.3	2,123.3	7.01	303.874	
1,800.0	1,781.2	1,374.2	1,354.3	5.0	4.5	-65.15	1,758.1	1,261.9	2,136.6	2,129.2	7.34	290.927	
1,900.0	1,877.8	1,532.3	1,508.7	5.5	5.2	-62.29	1,783.5	1,284.2	2,146.5	2,138.4	8.11	264.742	
1,981.2	1,956.2	1,632.9	1,607.3	5.9	5.6	-59.76	1,797.3	1,298.6	2,152.0	2,143.4	8.69	247.726	
2,000.0	1,974.4	1,644.0	1,618.2	6.0	5.6	-59.81	1,798.7	1,300.3	2,153.2	2,144.4	8.79	244.875	
2,100.0	2,071.3	1,731.0	1,703.4	6.4	6.0	-60.24	1,810.7	1,313.4	2,160.5	2,151.1	9.39	230.163	
2,181.5	2,150.7	1,792.7	1,763.8	6.7	6.2	-60.56	1,820.2	1,322.0	2,167.8	2,158.0	9.84	220.414	
2,200.0	2,168.6	1,811.4	1,782.0	6.8	6.3	-60.64	1,823.2	1,324.5	2,169.6	2,159.6	9.95	218.123	
2,300.0	2,266.1	1,894.9	1,863.6	7.3	6.6	-60.96	1,836.0	1,336.7	2,179.4	2,168.9	10.53	206.963	
2,400.0	2,363.5	1,977.9	1,944.5	7.7	7.0	-61.22	1,848.2	1,351.1	2,190.1	2,178.9	11.13	196.760	
2,500.0	2,461.0	2,080.0	2,043.7	8.1	7.5	-61.49	1,862.5	1,370.4	2,201.0	2,189.2	11.78	186.811	
2,600.0	2,558.4	2,168.0	2,129.1	8.6	7.9	-61.72	1,874.8	1,387.4	2,212.1	2,199.7	12.41	178.273	
2,700.0	2,655.8	2,258.1	2,216.4	9.0	8.3	-61.94	1,887.8	1,405.3	2,223.9	2,210.9	13.04	170.529	
2,800.0	2,753.3	2,372.2	2,327.2	9.4	8.8	-62.23	1,904.4	1,427.3	2,235.6	2,221.8	13.74	162.738	
2,900.0	2,850.7	2,604.0	2,553.7	9.9	9.7	-62.92	1,935.3	1,465.7	2,246.3	2,231.5	14.74	152.432	
3,000.0	2,948.2	2,691.0	2,639.3	10.3	10.0	-63.20	1,944.3	1,478.1	2,252.0	2,236.6	15.35	146.682	
3,100.0	3,045.6	2,740.4	2,687.8	10.7	10.2	-63.36	1,950.3	1,485.2	2,259.3	2,243.4	15.88	142.267	
3,200.0	3,143.0	2,827.3	2,772.9	11.2	10.6	-63.63	1,961.8	1,498.9	2,268.3	2,251.8	16.52	137.312	
3,300.0	3,240.5	2,980.9	2,923.3	11.6	11.2	-64.04	1,979.2	1,524.6	2,276.2	2,258.9	17.35	131.221	
3,400.0	3,337.9	3,075.6	3,016.5	12.0	11.5	-64.31	1,988.7	1,538.6	2,282.1	2,264.1	18.01	126.739	
3,500.0	3,435.3	3,128.0	3,067.8	12.5	11.7	-64.47	1,995.0	1,546.8	2,290.1	2,271.6	18.55	123.434	
3,600.0	3,532.8	3,182.8	3,121.4	12.9	12.0	-64.63	2,002.6	1,555.7	2,300.2	2,281.1	19.10	120.404	
3,700.0	3,630.2	3,313.5	3,248.9	13.3	12.5	-65.00	2,021.1	1,577.7	2,311.0	2,291.1	19.88	116.228	
3,800.0	3,727.7	3,404.9	3,338.2	13.8	12.9	-65.25	2,033.0	1,592.8	2,320.6	2,300.0	20.54	112.967	
3,900.0	3,825.1	3,477.0	3,408.6	14.2	13.2	-65.47	2,043.3	1,604.4	2,331.2	2,310.1	21.15	110.236	
4,000.0	3,922.5	3,526.5	3,456.8	14.6	13.4	-65.61	2,051.1	1,613.0	2,343.5	2,321.8	21.71	107.953	
4,100.0	4,020.0	3,616.5	3,543.8	15.1	13.9	-65.82	2,065.7	1,630.6	2,357.4	2,335.0	22.38	105.334	
4,200.0	4,117.4	3,880.3	3,802.0	15.5	14.9	-66.65	2,102.7	1,669.6	2,367.0	2,343.5	23.50	100.709	
4,300.0	4,214.9	4,214.6	4,134.2	16.0	15.6	-68.20	2,132.6	1,688.6	2,368.7	2,344.0	24.73	95.784	
4,400.0	4,312.3	4,350.2	4,269.7	16.4	15.8	-68.87	2,137.9	1,692.0	2,364.9	2,339.4	25.47	92.850	
4,500.0	4,409.7	4,535.5	4,454.8	16.8	16.0	-69.81	2,142.5	1,693.8	2,359.9	2,333.5	26.33	89.623	
4,600.0	4,507.2	4,642.4	4,561.7	17.3	16.1	-70.35	2,142.3	1,694.5	2,352.1	2,325.1	27.00	87.118	
4,700.0	4,604.6	4,752.6	4,671.9	17.7	16.2	-70.93	2,142.0	1,694.2	2,344.2	2,316.5	27.67	84.706	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU											Offset Site Error:		0.0 ft
Survey Program: 71-Geolink MWD											Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,800.0	4,702.0	4,866.5	4,785.9	18.1	16.2	-71.55	2,141.3	1,692.8	2,335.7	2,307.4	28.35	82.375	
4,900.0	4,799.5	4,969.8	4,889.2	18.6	16.3	-72.12	2,140.2	1,691.2	2,327.0	2,298.0	29.02	80.183	
5,000.0	4,896.9	5,070.2	4,989.5	19.0	16.4	-72.67	2,138.9	1,689.9	2,318.3	2,288.6	29.68	78.113	
5,100.0	4,994.4	5,163.1	5,082.4	19.4	16.4	-73.19	2,137.7	1,688.7	2,309.8	2,279.5	30.32	76.187	
5,200.0	5,091.8	5,255.8	5,175.0	19.9	16.5	-73.71	2,136.7	1,687.4	2,301.8	2,270.8	30.96	74.354	
5,300.0	5,189.2	5,348.2	5,267.5	20.3	16.6	-74.23	2,135.9	1,686.1	2,294.1	2,262.5	31.60	72.608	
5,400.0	5,286.7	5,438.9	5,358.1	20.8	16.6	-74.75	2,135.3	1,684.8	2,286.9	2,254.7	32.23	70.950	
5,500.0	5,384.1	5,527.5	5,446.7	21.2	16.7	-75.26	2,135.0	1,683.7	2,280.3	2,247.4	32.87	69.381	
5,600.0	5,481.6	5,618.2	5,537.5	21.6	16.8	-75.78	2,135.0	1,682.7	2,274.2	2,240.7	33.50	67.883	
5,700.0	5,579.0	5,710.9	5,630.1	22.1	16.9	-76.32	2,135.3	1,681.5	2,268.6	2,234.5	34.14	66.448	
5,800.0	5,676.4	5,803.5	5,722.8	22.5	17.0	-76.87	2,135.8	1,680.2	2,263.4	2,228.6	34.78	65.074	
5,900.0	5,773.9	5,896.2	5,815.4	22.9	17.1	-77.42	2,136.4	1,678.9	2,258.7	2,223.2	35.42	63.762	
6,000.0	5,871.3	5,989.2	5,908.4	23.4	17.2	-77.97	2,137.3	1,677.7	2,254.3	2,218.3	36.07	62.505	
6,100.0	5,968.7	6,082.2	6,001.4	23.8	17.3	-78.52	2,138.2	1,676.6	2,250.4	2,213.7	36.71	61.304	
6,200.0	6,066.2	6,170.2	6,089.4	24.3	17.4	-79.05	2,139.4	1,675.8	2,247.0	2,209.7	37.34	60.174	
6,300.0	6,163.6	6,257.3	6,176.5	24.7	17.5	-79.56	2,140.9	1,675.1	2,244.3	2,206.3	37.97	59.103	
6,400.0	6,261.1	6,357.4	6,276.5	25.1	17.6	-80.15	2,142.8	1,674.4	2,242.0	2,203.4	38.63	58.035	
6,500.0	6,358.5	6,459.7	6,378.8	25.6	17.7	-80.76	2,144.5	1,673.7	2,239.7	2,200.4	39.29	56.999	
6,600.0	6,455.9	6,561.0	6,480.1	26.0	17.8	-81.36	2,146.0	1,672.8	2,237.5	2,197.5	39.95	56.005	
6,700.0	6,553.4	6,658.2	6,577.3	26.5	17.9	-81.95	2,147.4	1,671.8	2,235.4	2,194.8	40.60	55.058	
6,800.0	6,650.8	6,749.9	6,668.9	26.9	18.0	-82.50	2,148.8	1,670.9	2,233.7	2,192.4	41.24	54.167	
6,900.0	6,748.3	6,850.2	6,769.3	27.3	18.2	-83.10	2,150.5	1,670.1	2,232.4	2,190.5	41.89	53.289	
7,000.0	6,845.7	6,958.5	6,877.5	27.8	18.3	-83.74	2,151.8	1,669.3	2,230.9	2,188.3	42.56	52.416	
7,100.0	6,943.1	7,039.6	6,958.7	28.2	18.4	-84.22	2,152.8	1,668.9	2,229.7	2,186.6	43.18	51.638	
7,160.8	7,002.4	7,087.3	7,006.3	28.5	18.5	-84.50	2,153.8	1,668.9	2,229.5	2,186.0	43.55	51.193	
7,200.0	7,040.6	7,118.1	7,037.1	28.6	18.5	-84.68	2,154.5	1,669.0	2,229.6	2,185.8	43.79	50.915	
7,300.0	7,138.0	7,209.7	7,128.7	29.1	18.7	-85.20	2,156.9	1,669.6	2,230.4	2,185.9	44.43	50.199	
7,341.8	7,178.7	7,250.7	7,169.7	29.3	18.7	-85.43	2,158.0	1,669.9	2,230.7	2,186.0	44.70	49.902	
7,350.0	7,186.7	7,258.8	7,177.7	29.3	18.7	-81.92	2,158.2	1,670.0	2,230.8	2,186.0	44.77	49.822	
7,400.0	7,235.4	7,307.9	7,226.8	29.5	18.8	-61.78	2,159.5	1,670.4	2,228.4	2,183.4	45.02	49.493	
7,450.0	7,283.6	7,358.9	7,277.8	29.7	18.9	-46.26	2,160.9	1,670.8	2,221.7	2,176.8	44.96	49.412	
7,500.0	7,331.0	7,409.8	7,328.7	29.9	19.0	-35.54	2,162.1	1,671.2	2,210.8	2,166.2	44.59	49.580	
7,550.0	7,377.4	7,459.5	7,378.4	30.1	19.0	-28.24	2,163.3	1,671.6	2,195.6	2,151.7	43.91	50.007	
7,600.0	7,422.2	7,506.4	7,425.3	30.3	19.1	-23.12	2,164.3	1,671.9	2,176.3	2,133.4	42.92	50.711	
7,650.0	7,465.2	7,548.6	7,467.5	30.5	19.2	-19.37	2,165.3	1,672.2	2,153.2	2,111.5	41.63	51.724	
7,700.0	7,506.0	7,588.9	7,507.8	30.7	19.2	-16.53	2,166.2	1,672.6	2,126.3	2,086.2	40.06	53.081	
7,750.0	7,544.4	7,626.9	7,545.8	30.9	19.3	-14.28	2,167.1	1,673.0	2,095.9	2,057.7	38.22	54.834	
7,800.0	7,580.0	7,662.4	7,581.2	31.1	19.3	-12.42	2,167.9	1,673.5	2,062.2	2,026.1	36.14	57.058	
7,850.0	7,612.6	7,695.6	7,614.5	31.3	19.4	-10.80	2,168.7	1,674.0	2,025.5	1,991.6	33.84	59.849	
7,900.0	7,641.9	7,725.8	7,644.6	31.5	19.4	-9.29	2,169.4	1,674.4	1,985.9	1,954.6	31.35	63.339	
7,950.0	7,667.7	7,752.5	7,671.3	31.7	19.5	-7.75	2,170.1	1,674.8	1,943.9	1,915.2	28.71	67.701	
8,000.0	7,689.8	7,775.7	7,694.4	32.0	19.5	-6.01	2,170.6	1,675.1	1,899.7	1,873.8	25.97	73.144	
8,050.0	7,708.0	7,795.0	7,713.7	32.2	19.5	-3.76	2,171.1	1,675.4	1,853.7	1,830.5	23.21	79.854	
8,100.0	7,722.3	7,810.3	7,729.1	32.4	19.6	-0.38	2,171.5	1,675.6	1,806.1	1,785.5	20.62	87.613	
8,150.0	7,732.4	7,821.6	7,740.3	32.7	19.6	5.86	2,171.7	1,675.7	1,757.5	1,738.7	18.78	93.598	
8,200.0	7,738.3	7,828.7	7,747.5	33.0	19.6	21.48	2,171.9	1,675.8	1,708.0	1,687.3	20.74	82.338	
8,244.9	7,740.0	7,831.5	7,750.2	33.2	19.6	66.85	2,172.0	1,675.9	1,663.3	1,630.7	32.58	51.051	
8,300.0	7,740.0	7,832.8	7,751.6	33.5	19.6	67.52	2,172.0	1,675.9	1,608.3	1,575.1	33.23	48.401	
8,400.0	7,740.0	7,835.2	7,754.0	34.1	19.6	68.75	2,172.1	1,675.9	1,508.5	1,474.0	34.48	43.748	
8,500.0	7,740.0	7,837.7	7,756.4	34.8	19.6	70.01	2,172.1	1,675.9	1,408.8	1,372.9	35.83	39.323	
8,600.0	7,740.0	7,840.1	7,758.9	35.6	19.6	71.28	2,172.2	1,676.0	1,309.1	1,271.8	37.25	35.144	
8,700.0	7,740.0	7,842.5	7,761.3	36.5	19.6	72.58	2,172.3	1,676.0	1,209.4	1,170.7	38.74	31.221	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU												Offset Site Error:	0.0 ft
Survey Program: 71-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	
8,800.0	7,740.0	7,845.0	7,763.8	37.4	19.6	73.92	2,172.3	1,676.0	1,109.8	1,069.5	40.28	27.548	
8,900.0	7,740.0	7,847.5	7,766.3	38.3	19.6	75.28	2,172.4	1,676.1	1,010.2	968.4	41.88	24.124	
9,000.0	7,740.0	7,850.0	7,768.7	39.4	19.6	76.64	2,172.4	1,676.1	910.8	867.3	43.51	20.935	
9,100.0	7,740.0	7,852.4	7,771.2	40.4	19.6	78.02	2,172.5	1,676.1	811.5	766.3	45.16	17.968	
9,200.0	7,740.0	7,854.9	7,773.7	41.6	19.6	79.40	2,172.6	1,676.2	712.4	665.5	46.84	15.208	
9,300.0	7,740.0	7,857.3	7,776.1	42.7	19.6	80.79	2,172.6	1,676.2	613.5	565.0	48.53	12.641	
9,400.0	7,740.0	7,859.8	7,778.5	43.9	19.6	82.18	2,172.7	1,676.2	515.1	464.8	50.23	10.254	
9,500.0	7,740.0	7,862.2	7,781.0	45.2	19.6	83.58	2,172.7	1,676.3	417.4	365.4	51.93	8.036	
9,600.0	7,740.0	7,864.6	7,783.4	46.4	19.6	84.97	2,172.8	1,676.3	321.1	267.4	53.63	5.986	
9,700.0	7,740.0	7,867.0	7,785.8	47.7	19.7	86.37	2,172.8	1,676.3	227.9	172.6	55.33	4.120	
9,800.0	7,740.0	7,869.4	7,788.2	49.1	19.7	87.76	2,172.9	1,676.4	144.3	87.3	57.01	2.532	
9,900.0	7,740.0	7,871.8	7,790.5	50.4	19.7	89.15	2,173.0	1,676.4	98.4	39.7	58.67	1.677	
9,905.7	7,740.0	7,871.9	7,790.7	50.5	19.7	89.23	2,173.0	1,676.4	98.2	39.5	58.77	1.672 CC, ES, SF	
10,000.0	7,740.0	7,874.1	7,792.9	51.8	19.7	90.53	2,173.0	1,676.4	136.1	75.8	60.32	2.257	
10,100.0	7,740.0	7,876.5	7,795.3	53.2	19.7	91.90	2,173.1	1,676.5	217.6	155.7	61.94	3.514	
10,200.0	7,740.0	7,878.9	7,797.6	54.6	19.7	93.27	2,173.1	1,676.5	310.1	246.6	63.53	4.882	
10,300.0	7,740.0	7,881.2	7,800.0	56.1	19.7	94.63	2,173.2	1,676.5	406.2	341.1	65.10	6.240	
10,400.0	7,740.0	7,883.5	7,802.3	57.6	19.7	95.97	2,173.2	1,676.6	503.8	437.1	66.64	7.560	
10,500.0	7,740.0	7,885.9	7,804.6	59.0	19.7	97.30	2,173.3	1,676.6	602.2	534.0	68.14	8.837	
10,600.0	7,740.0	7,888.2	7,806.9	60.5	19.7	98.62	2,173.3	1,676.6	701.0	631.4	69.60	10.071	
10,700.0	7,740.0	7,890.5	7,809.2	62.0	19.7	99.92	2,173.4	1,676.7	800.1	729.1	71.03	11.264	
10,800.0	7,740.0	7,892.8	7,811.5	63.5	19.7	101.21	2,173.5	1,676.7	899.4	827.0	72.42	12.418	
10,900.0	7,740.0	7,895.1	7,813.8	65.1	19.7	102.48	2,173.5	1,676.7	998.8	925.0	73.78	13.539	
11,000.0	7,740.0	7,897.3	7,816.1	66.6	19.7	103.73	2,173.6	1,676.7	1,098.4	1,023.3	75.09	14.627	
11,100.0	7,740.0	7,899.6	7,818.3	68.2	19.7	104.96	2,173.6	1,676.8	1,198.0	1,121.6	76.36	15.688	
11,200.0	7,740.0	7,901.9	7,820.6	69.7	19.7	106.17	2,173.7	1,676.8	1,297.6	1,220.0	77.59	16.724	
11,300.0	7,740.0	7,904.1	7,822.8	71.3	19.7	107.36	2,173.7	1,676.8	1,397.3	1,318.5	78.78	17.736	
11,400.0	7,740.0	7,906.3	7,825.1	72.9	19.7	108.54	2,173.8	1,676.9	1,497.1	1,417.1	79.93	18.729	
11,500.0	7,740.0	7,908.6	7,827.3	74.5	19.7	109.68	2,173.8	1,676.9	1,596.8	1,515.8	81.05	19.703	
11,600.0	7,740.0	7,910.8	7,829.5	76.1	19.7	110.81	2,173.9	1,676.9	1,696.6	1,614.5	82.12	20.661	
11,700.0	7,740.0	7,913.0	7,831.7	77.7	19.7	111.92	2,173.9	1,677.0	1,796.5	1,713.3	83.15	21.605	
11,800.0	7,740.0	7,915.2	7,833.9	79.3	19.7	113.00	2,174.0	1,677.0	1,896.3	1,812.1	84.15	22.536	
11,900.0	7,740.0	7,917.4	7,836.1	80.9	19.7	114.07	2,174.0	1,677.0	1,996.1	1,911.0	85.10	23.455	
12,000.0	7,740.0	7,919.6	7,838.3	82.5	19.7	115.11	2,174.1	1,677.0	2,096.0	2,010.0	86.03	24.364	
12,100.0	7,740.0	7,921.8	7,840.5	84.2	19.7	116.13	2,174.1	1,677.1	2,195.9	2,108.9	86.91	25.265	
12,200.0	7,740.0	7,923.9	7,842.7	85.8	19.7	117.12	2,174.2	1,677.1	2,295.7	2,208.0	87.77	26.157	
12,300.0	7,740.0	7,926.1	7,844.8	87.4	19.7	118.10	2,174.2	1,677.1	2,395.6	2,307.0	88.59	27.043	
12,400.0	7,740.0	7,928.2	7,847.0	89.1	19.7	119.05	2,174.3	1,677.2	2,495.5	2,406.1	89.38	27.922	
12,500.0	7,740.0	7,930.4	7,849.1	90.7	19.7	119.98	2,174.3	1,677.2	2,595.4	2,505.3	90.13	28.795	
12,600.0	7,740.0	7,932.5	7,851.3	92.4	19.7	120.89	2,174.4	1,677.2	2,695.3	2,604.5	90.86	29.664	
12,700.0	7,740.0	7,934.6	7,853.4	94.0	19.8	121.78	2,174.4	1,677.2	2,795.2	2,703.7	91.56	30.528	
12,800.0	7,740.0	7,936.8	7,855.5	95.7	19.8	122.65	2,174.5	1,677.3	2,895.1	2,802.9	92.24	31.389	
12,900.0	7,740.0	7,938.9	7,857.6	97.3	19.8	123.50	2,174.5	1,677.3	2,995.1	2,902.2	92.88	32.245	
13,000.0	7,740.0	7,941.0	7,859.7	99.0	19.8	124.33	2,174.6	1,677.3	3,095.0	3,001.5	93.51	33.099	
13,100.0	7,740.0	7,943.1	7,861.8	100.7	19.8	125.14	2,174.6	1,677.4	3,194.9	3,100.8	94.11	33.950	
13,200.0	7,740.0	7,945.1	7,863.9	102.3	19.8	125.92	2,174.7	1,677.4	3,294.8	3,200.2	94.68	34.799	
13,300.0	7,740.0	7,947.2	7,866.0	104.0	19.8	126.69	2,174.7	1,677.4	3,394.8	3,299.5	95.24	35.645	
13,400.0	7,740.0	7,949.3	7,868.0	105.7	19.8	127.45	2,174.7	1,677.4	3,494.7	3,398.9	95.77	36.489	
13,500.0	7,740.0	7,951.3	7,870.1	107.3	19.8	128.18	2,174.8	1,677.5	3,594.7	3,498.4	96.29	37.331	
13,600.0	7,740.0	7,953.4	7,872.1	109.0	19.8	128.90	2,174.8	1,677.5	3,694.6	3,597.8	96.79	38.171	
13,700.0	7,740.0	7,955.4	7,874.2	110.7	19.8	129.60	2,174.9	1,677.5	3,794.5	3,697.3	97.27	39.010	
13,800.0	7,740.0	7,957.5	7,876.2	112.4	19.8	130.28	2,174.9	1,677.5	3,894.5	3,796.7	97.73	39.848	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SU													Offset Site Error: 0.0 ft
Survey Program: 71-Geolink MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
13,900.0	7,740.0	7,959.5	7,878.2	114.1	19.8	130.94	2,175.0	1,677.6	3,994.4	3,896.2	98.18	40.683	
14,000.0	7,740.0	7,961.5	7,880.3	115.8	19.8	131.59	2,175.0	1,677.6	4,094.4	3,995.8	98.62	41.518	
14,100.0	7,740.0	7,963.5	7,882.3	117.5	19.8	132.23	2,175.1	1,677.6	4,194.3	4,095.3	99.04	42.351	
14,200.0	7,740.0	7,965.5	7,884.3	119.2	19.8	132.85	2,175.1	1,677.6	4,294.3	4,194.8	99.44	43.183	
14,300.0	7,740.0	7,967.5	7,886.3	120.8	19.8	133.45	2,175.1	1,677.7	4,394.2	4,294.4	99.84	44.013	
14,400.0	7,740.0	7,969.5	7,888.3	122.5	19.8	134.04	2,175.2	1,677.7	4,494.2	4,393.9	100.22	44.842	
14,500.0	7,740.0	7,971.5	7,890.2	124.2	19.8	134.62	2,175.2	1,677.7	4,594.1	4,493.5	100.59	45.670	
14,600.0	7,740.0	7,973.5	7,892.2	125.9	19.8	135.18	2,175.3	1,677.7	4,694.1	4,593.1	100.95	46.497	
14,700.0	7,740.0	7,975.5	7,894.2	127.6	19.8	135.73	2,175.3	1,677.8	4,794.0	4,692.7	101.31	47.323	
14,800.0	7,740.0	7,977.4	7,896.1	129.3	19.8	136.27	2,175.4	1,677.8	4,894.0	4,792.3	101.65	48.147	
14,844.9	7,740.0	7,978.3	7,897.0	130.1	19.8	136.50	2,175.4	1,677.8	4,938.8	4,837.0	101.80	48.516	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8320-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	49.0	49.0	0.0	0.1	75.11	753.9	2,834.8	2,933.3					
100.0	100.0	149.0	149.0	0.2	0.3	75.11	753.9	2,834.8	2,933.3	2,932.9	0.41	7,118.121		
200.0	200.0	249.0	249.0	0.3	0.4	75.11	753.9	2,834.8	2,933.3	2,932.6	0.76	3,853.783		
250.0	250.0	299.0	299.0	0.4	0.5	75.11	753.9	2,834.8	2,933.3	2,932.4	0.94	3,134.947		
300.0	300.0	349.0	349.0	0.5	0.6	-24.89	753.9	2,834.8	2,933.1	2,932.0	1.11	2,641.972		
400.0	400.0	449.0	449.0	0.7	0.8	-24.92	753.9	2,834.8	2,931.6	2,930.1	1.46	2,008.753		
500.0	499.9	548.9	548.9	0.9	1.0	-24.96	753.9	2,834.8	2,928.4	2,926.6	1.81	1,618.605		
600.0	599.8	648.8	648.8	1.1	1.1	-25.02	753.9	2,834.8	2,923.6	2,921.5	2.16	1,353.407		
700.0	699.5	748.5	748.5	1.3	1.3	-25.11	753.9	2,834.8	2,917.3	2,914.8	2.51	1,160.894		
800.0	799.2	848.2	848.2	1.5	1.5	-25.21	753.9	2,834.8	2,909.4	2,906.6	2.87	1,014.378		
900.0	898.6	947.6	947.6	1.7	1.7	-25.34	753.9	2,834.8	2,900.0	2,896.7	3.23	898.809		
1,000.0	997.9	1,046.9	1,046.9	2.0	1.8	-25.49	753.9	2,834.8	2,888.9	2,885.4	3.59	805.052		
1,100.0	1,096.9	1,145.9	1,145.9	2.3	2.0	-25.67	753.9	2,834.8	2,876.4	2,872.4	3.96	727.246		
1,200.0	1,195.7	1,244.7	1,244.7	2.6	2.2	-25.86	753.9	2,834.8	2,862.3	2,857.9	4.33	661.454		
1,300.0	1,294.1	1,343.1	1,343.1	2.9	2.3	-26.08	753.9	2,834.8	2,846.6	2,841.9	4.71	604.937		
1,400.0	1,392.3	1,441.3	1,441.3	3.3	2.5	-26.33	753.9	2,834.8	2,829.4	2,824.3	5.09	555.731		
1,500.0	1,490.1	1,539.1	1,539.1	3.7	2.7	-26.60	753.9	2,834.8	2,810.7	2,805.2	5.49	512.389		
1,600.0	1,587.5	1,636.5	1,636.5	4.1	2.9	-26.90	753.9	2,834.8	2,790.5	2,784.6	5.89	473.827		
1,700.0	1,684.6	1,733.6	1,733.6	4.5	3.0	-27.23	753.9	2,834.8	2,768.9	2,762.6	6.30	439.212		
1,750.0	1,732.9	1,781.9	1,781.9	4.8	3.1	-27.40	753.9	2,834.8	2,757.5	2,751.0	6.52	423.235		
1,800.0	1,781.2	1,830.2	1,830.2	5.0	3.2	-25.55	753.9	2,834.8	2,745.8	2,739.1	6.72	408.486		
1,900.0	1,877.8	1,926.8	1,926.8	5.5	3.4	-21.80	753.9	2,834.8	2,722.1	2,714.9	7.12	382.249		
1,981.2	1,956.2	2,005.2	2,005.2	5.9	3.5	-18.73	753.9	2,834.8	2,702.3	2,694.9	7.43	363.478		
2,000.0	1,974.4	2,023.4	2,023.4	6.0	3.5	-18.75	753.9	2,834.8	2,697.7	2,690.2	7.51	359.114		
2,100.0	2,071.3	2,120.3	2,120.3	6.4	3.7	-18.84	753.9	2,834.8	2,674.2	2,666.3	7.92	337.700		
2,181.5	2,150.7	2,199.7	2,199.7	6.7	3.8	-18.91	753.9	2,834.8	2,656.3	2,648.0	8.25	322.072		
2,200.0	2,168.6	2,217.6	2,217.6	6.8	3.9	-18.94	753.9	2,834.8	2,652.3	2,644.0	8.32	318.787		
2,300.0	2,266.1	2,315.1	2,315.1	7.3	4.0	-19.10	753.9	2,834.8	2,631.0	2,622.3	8.71	301.923		
2,400.0	2,363.5	2,412.5	2,412.5	7.7	4.2	-19.26	753.9	2,834.8	2,609.7	2,600.6	9.11	286.476		
2,500.0	2,461.0	2,510.0	2,510.0	8.1	4.4	-19.43	753.9	2,834.8	2,588.5	2,578.9	9.51	272.274		
2,600.0	2,558.4	2,607.4	2,607.4	8.6	4.6	-19.59	753.9	2,834.8	2,567.2	2,557.3	9.91	259.173		
2,700.0	2,655.8	2,704.8	2,704.8	9.0	4.7	-19.76	753.9	2,834.8	2,546.0	2,535.7	10.31	247.049		
2,800.0	2,753.3	2,802.3	2,802.3	9.4	4.9	-19.93	753.9	2,834.8	2,524.7	2,514.0	10.71	235.799		
2,900.0	2,850.7	2,899.7	2,899.7	9.9	5.1	-20.11	753.9	2,834.8	2,503.5	2,492.4	11.11	225.330		
3,000.0	2,948.2	2,997.2	2,997.2	10.3	5.2	-20.29	753.9	2,834.8	2,482.4	2,470.9	11.52	215.565		
3,100.0	3,045.6	3,094.6	3,094.6	10.7	5.4	-20.47	753.9	2,834.8	2,461.2	2,449.3	11.92	206.435		
3,200.0	3,143.0	3,192.0	3,192.0	11.2	5.6	-20.65	753.9	2,834.8	2,440.1	2,427.8	12.33	197.880		
3,300.0	3,240.5	3,289.5	3,289.5	11.6	5.7	-20.84	753.9	2,834.8	2,419.0	2,406.3	12.74	189.848		
3,400.0	3,337.9	3,386.9	3,386.9	12.0	5.9	-21.03	753.9	2,834.8	2,397.9	2,384.8	13.15	182.292		
3,500.0	3,435.3	3,484.3	3,484.3	12.5	6.1	-21.22	753.9	2,834.8	2,376.9	2,363.3	13.57	175.172		
3,600.0	3,532.8	3,581.8	3,581.8	12.9	6.3	-21.42	753.9	2,834.8	2,355.9	2,341.9	13.99	168.451		
3,700.0	3,630.2	3,679.2	3,679.2	13.3	6.4	-21.62	753.9	2,834.8	2,334.9	2,320.5	14.40	162.097		
3,800.0	3,727.7	3,776.7	3,776.7	13.8	6.6	-21.83	753.9	2,834.8	2,313.9	2,299.1	14.83	156.081		
3,900.0	3,825.1	3,874.1	3,874.1	14.2	6.8	-22.03	753.9	2,834.8	2,293.0	2,277.7	15.25	150.376		
4,000.0	3,922.5	3,971.5	3,971.5	14.6	6.9	-22.25	753.9	2,834.8	2,272.1	2,256.4	15.67	144.960		
4,100.0	4,020.0	4,069.0	4,069.0	15.1	7.1	-22.46	753.9	2,834.8	2,251.2	2,235.1	16.10	139.811		
4,200.0	4,117.4	4,166.4	4,166.4	15.5	7.3	-22.68	753.9	2,834.8	2,230.4	2,213.8	16.53	134.910		
4,300.0	4,214.9	4,263.9	4,263.9	16.0	7.4	-22.91	753.9	2,834.8	2,209.5	2,192.6	16.97	130.240		
4,400.0	4,312.3	4,361.3	4,361.3	16.4	7.6	-23.13	753.9	2,834.8	2,188.8	2,171.4	17.40	125.785		
4,500.0	4,409.7	4,458.7	4,458.7	16.8	7.8	-23.37	753.9	2,834.8	2,168.0	2,150.2	17.84	121.531		
4,600.0	4,507.2	4,556.2	4,556.2	17.3	8.0	-23.60	753.9	2,834.8	2,147.3	2,129.0	18.28	117.465		
4,700.0	4,604.6	4,653.6	4,653.6	17.7	8.1	-23.85	753.9	2,834.8	2,126.6	2,107.9	18.72	113.575		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO													Offset Site Error:	0.0 ft
Survey Program: 8320-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,800.0	4,702.0	4,751.0	4,751.0	18.1	8.3	-24.09	753.9	2,834.8	2,106.0	2,086.8	19.17	109.850		
4,900.0	4,799.5	4,848.5	4,848.5	18.6	8.5	-24.34	753.9	2,834.8	2,085.4	2,065.8	19.62	106.280		
5,000.0	4,896.9	4,945.9	4,945.9	19.0	8.6	-24.60	753.9	2,834.8	2,064.8	2,044.8	20.08	102.855		
5,100.0	4,994.4	5,043.4	5,043.4	19.4	8.8	-24.86	753.9	2,834.8	2,044.3	2,023.8	20.53	99.568		
5,200.0	5,091.8	5,140.8	5,140.8	19.9	9.0	-25.13	753.9	2,834.8	2,023.9	2,002.9	20.99	96.410		
5,300.0	5,189.2	5,238.2	5,238.2	20.3	9.1	-25.40	753.9	2,834.8	2,003.4	1,982.0	21.46	93.374		
5,400.0	5,286.7	5,335.7	5,335.7	20.8	9.3	-25.68	753.9	2,834.8	1,983.0	1,961.1	21.92	90.453		
5,500.0	5,384.1	5,433.1	5,433.1	21.2	9.5	-25.96	753.9	2,834.8	1,962.7	1,940.3	22.39	87.642		
5,600.0	5,481.6	5,530.6	5,530.6	21.6	9.7	-26.25	753.9	2,834.8	1,942.4	1,919.5	22.87	84.934		
5,700.0	5,579.0	5,628.0	5,628.0	22.1	9.8	-26.54	753.9	2,834.8	1,922.2	1,898.8	23.35	82.325		
5,800.0	5,676.4	5,725.4	5,725.4	22.5	10.0	-26.84	753.9	2,834.8	1,902.0	1,878.1	23.83	79.808		
5,900.0	5,773.9	5,822.9	5,822.9	22.9	10.2	-27.15	753.9	2,834.8	1,881.8	1,857.5	24.32	77.381		
6,000.0	5,871.3	5,920.3	5,920.3	23.4	10.3	-27.47	753.9	2,834.8	1,861.7	1,836.9	24.81	75.037		
6,100.0	5,968.7	6,017.7	6,017.7	23.8	10.5	-27.79	753.9	2,834.8	1,841.7	1,816.4	25.31	72.773		
6,200.0	6,066.2	6,115.2	6,115.2	24.3	10.7	-28.11	753.9	2,834.8	1,821.7	1,795.9	25.81	70.586		
6,300.0	6,163.6	6,212.6	6,212.6	24.7	10.8	-28.45	753.9	2,834.8	1,801.8	1,775.5	26.31	68.472		
6,400.0	6,261.1	6,310.1	6,310.1	25.1	11.0	-28.79	753.9	2,834.8	1,781.9	1,755.1	26.83	66.428		
6,500.0	6,358.5	6,407.5	6,407.5	25.6	11.2	-29.14	753.9	2,834.8	1,762.1	1,734.8	27.34	64.450		
6,600.0	6,455.9	6,504.9	6,504.9	26.0	11.4	-29.50	753.9	2,834.8	1,742.4	1,714.6	27.86	62.535		
6,700.0	6,553.4	6,602.4	6,602.4	26.5	11.5	-29.87	753.9	2,834.8	1,722.8	1,694.4	28.39	60.682		
6,800.0	6,650.8	6,699.8	6,699.8	26.9	11.7	-30.24	753.9	2,834.8	1,703.2	1,674.2	28.92	58.887		
6,900.0	6,748.3	6,797.3	6,797.3	27.3	11.9	-30.62	753.9	2,834.8	1,683.7	1,654.2	29.46	57.148		
7,000.0	6,845.7	6,894.7	6,894.7	27.8	12.0	-31.02	753.9	2,834.8	1,664.2	1,634.2	30.01	55.463		
7,100.0	6,943.1	6,992.1	6,992.1	28.2	12.2	-31.42	753.9	2,834.8	1,644.8	1,614.3	30.56	53.829		
7,200.0	7,040.6	7,089.6	7,089.6	28.6	12.4	-31.83	753.9	2,834.8	1,625.6	1,594.4	31.11	52.245		
7,300.0	7,138.0	7,187.0	7,187.0	29.1	12.5	-32.25	753.9	2,834.8	1,606.4	1,574.7	31.68	50.709		
7,341.8	7,178.7	7,227.7	7,227.7	29.3	12.6	-32.42	753.9	2,834.8	1,598.4	1,566.4	31.92	50.081		
7,350.0	7,186.7	7,235.7	7,235.7	29.3	12.6	-28.76	753.9	2,834.8	1,596.8	1,564.9	31.90	50.047		
7,400.0	7,235.4	7,284.4	7,284.4	29.5	12.7	-7.54	753.9	2,834.8	1,585.8	1,554.1	31.67	50.064		
7,450.0	7,283.6	7,332.6	7,332.6	29.7	12.8	9.39	753.9	2,834.8	1,572.6	1,541.4	31.21	50.396		
7,500.0	7,331.0	7,380.0	7,380.0	29.9	12.9	21.83	753.9	2,834.8	1,557.5	1,527.0	30.53	51.020		
7,550.0	7,377.4	7,426.4	7,426.4	30.1	13.0	31.18	753.9	2,834.8	1,540.5	1,510.8	29.69	51.885		
7,600.0	7,422.2	7,471.2	7,471.2	30.3	13.0	38.66	753.9	2,834.8	1,521.8	1,493.0	28.77	52.895		
7,650.0	7,465.2	7,514.2	7,514.2	30.5	13.1	45.05	753.9	2,834.8	1,501.6	1,473.7	27.86	53.889		
7,700.0	7,506.0	7,555.0	7,555.0	30.7	13.2	50.80	753.9	2,834.8	1,480.3	1,453.2	27.10	54.631		
7,750.0	7,544.4	7,593.4	7,593.4	30.9	13.3	56.15	753.9	2,834.8	1,458.1	1,431.5	26.58	54.852		
7,800.0	7,580.0	7,629.0	7,629.0	31.1	13.3	61.23	753.9	2,834.8	1,435.3	1,408.9	26.41	54.349		
7,850.0	7,612.6	7,661.6	7,661.6	31.3	13.4	66.05	753.9	2,834.8	1,412.4	1,385.8	26.60	53.106		
7,900.0	7,641.9	7,690.9	7,690.9	31.5	13.4	70.60	753.9	2,834.8	1,389.7	1,362.6	27.08	51.325		
7,950.0	7,667.7	7,716.7	7,716.7	31.7	13.5	74.82	753.9	2,834.8	1,367.7	1,339.9	27.73	49.317		
8,000.0	7,689.8	7,738.8	7,738.8	32.0	13.5	78.65	753.9	2,834.8	1,346.6	1,318.2	28.43	47.359		
8,050.0	7,708.0	7,757.0	7,757.0	32.2	13.5	82.03	753.9	2,834.8	1,327.1	1,298.0	29.09	45.627		
8,100.0	7,722.3	7,771.3	7,771.3	32.4	13.6	84.89	753.9	2,834.8	1,309.3	1,279.7	29.63	44.193		
8,150.0	7,732.4	7,781.4	7,781.4	32.7	13.6	87.20	753.9	2,834.8	1,293.8	1,263.7	30.05	43.057		
8,200.0	7,738.3	7,787.3	7,787.3	33.0	13.6	88.94	753.9	2,834.8	1,280.7	1,250.3	30.36	42.182		
8,244.9	7,740.0	7,789.0	7,789.0	33.2	13.6	90.00	753.9	2,834.8	1,271.2	1,240.7	30.58	41.575		
8,300.0	7,740.0	7,789.0	7,789.0	33.5	13.6	90.00	753.9	2,834.8	1,262.2	1,231.0	31.20	40.459		
8,400.0	7,740.0	7,789.0	7,789.0	34.1	13.6	90.00	753.9	2,834.8	1,251.8	1,219.4	32.39	38.641		
8,480.6	7,740.0	7,789.0	7,789.0	34.7	13.6	90.00	753.9	2,834.8	1,249.2	1,215.8	33.43	37.371 CC		
8,500.0	7,740.0	7,789.0	7,789.0	34.8	13.6	90.00	753.9	2,834.8	1,249.3	1,215.7	33.67	37.100 ES		
8,600.0	7,740.0	7,789.0	7,789.0	35.6	13.6	90.00	753.9	2,834.8	1,254.9	1,219.9	35.02	35.831		
8,700.0	7,740.0	7,789.0	7,789.0	36.5	13.6	90.00	753.9	2,834.8	1,268.3	1,231.9	36.42	34.820		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY A 1-7 (EXISTING) - ENCANA WELL - NO												Offset Site Error: 0.0 ft	
Survey Program: 8320-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	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)			
8,800.0	7,740.0	7,789.0	7,789.0	37.4	13.6	90.00	753.9	2,834.8	1,289.4	1,251.5	37.87	34.044	SF
8,900.0	7,740.0	7,789.0	7,789.0	38.3	13.6	90.00	753.9	2,834.8	1,317.7	1,278.3	39.36	33.479	
9,000.0	7,740.0	7,789.0	7,789.0	39.4	13.6	90.00	753.9	2,834.8	1,352.9	1,312.0	40.88	33.095	
9,100.0	7,740.0	7,789.0	7,789.0	40.4	13.6	90.00	753.9	2,834.8	1,394.3	1,351.9	42.42	32.867	
9,200.0	7,740.0	7,789.0	7,789.0	41.6	13.6	90.00	753.9	2,834.8	1,441.5	1,397.5	43.99	32.769	
9,300.0	7,740.0	7,789.0	7,789.0	42.7	13.6	90.00	753.9	2,834.8	1,493.9	1,448.4	45.58	32.778	
9,400.0	7,740.0	7,789.0	7,789.0	43.9	13.6	90.00	753.9	2,834.8	1,551.1	1,503.9	47.18	32.874	
9,500.0	7,740.0	7,789.0	7,789.0	45.2	13.6	90.00	753.9	2,834.8	1,612.3	1,563.5	48.80	33.040	
9,600.0	7,740.0	7,789.0	7,789.0	46.4	13.6	90.00	753.9	2,834.8	1,677.4	1,626.9	50.43	33.261	
9,700.0	7,740.0	7,789.0	7,789.0	47.7	13.6	90.00	753.9	2,834.8	1,745.7	1,693.6	52.07	33.525	
9,800.0	7,740.0	7,789.0	7,789.0	49.1	13.6	90.00	753.9	2,834.8	1,816.9	1,763.2	53.72	33.821	
9,900.0	7,740.0	7,789.0	7,789.0	50.4	13.6	90.00	753.9	2,834.8	1,890.8	1,835.4	55.38	34.142	
10,000.0	7,740.0	7,789.0	7,789.0	51.8	13.6	90.00	753.9	2,834.8	1,967.0	1,909.9	57.05	34.480	
10,100.0	7,740.0	7,789.0	7,789.0	53.2	13.6	90.00	753.9	2,834.8	2,045.2	1,986.5	58.72	34.829	
10,200.0	7,740.0	7,789.0	7,789.0	54.6	13.6	90.00	753.9	2,834.8	2,125.3	2,064.9	60.40	35.186	
10,300.0	7,740.0	7,789.0	7,789.0	56.1	13.6	90.00	753.9	2,834.8	2,207.0	2,144.9	62.09	35.547	
10,400.0	7,740.0	7,789.0	7,789.0	57.6	13.6	90.00	753.9	2,834.8	2,290.1	2,226.3	63.77	35.909	
10,500.0	7,740.0	7,789.0	7,789.0	59.0	13.6	90.00	753.9	2,834.8	2,374.5	2,309.1	65.47	36.270	
10,600.0	7,740.0	7,789.0	7,789.0	60.5	13.6	90.00	753.9	2,834.8	2,460.2	2,393.0	67.17	36.628	
10,700.0	7,740.0	7,789.0	7,789.0	62.0	13.6	90.00	753.9	2,834.8	2,546.8	2,477.9	68.87	36.982	
10,800.0	7,740.0	7,789.0	7,789.0	63.5	13.6	90.00	753.9	2,834.8	2,634.4	2,563.8	70.57	37.330	
10,900.0	7,740.0	7,789.0	7,789.0	65.1	13.6	90.00	753.9	2,834.8	2,722.9	2,650.6	72.28	37.672	
11,000.0	7,740.0	7,789.0	7,789.0	66.6	13.6	90.00	753.9	2,834.8	2,812.1	2,738.1	73.99	38.007	
11,100.0	7,740.0	7,789.0	7,789.0	68.2	13.6	90.00	753.9	2,834.8	2,902.0	2,826.3	75.70	38.336	
11,200.0	7,740.0	7,789.0	7,789.0	69.7	13.6	90.00	753.9	2,834.8	2,992.6	2,915.2	77.41	38.657	
11,300.0	7,740.0	7,789.0	7,789.0	71.3	13.6	90.00	753.9	2,834.8	3,083.7	3,004.6	79.13	38.970	
11,400.0	7,740.0	7,789.0	7,789.0	72.9	13.6	90.00	753.9	2,834.8	3,175.4	3,094.6	80.85	39.275	
11,500.0	7,740.0	7,789.0	7,789.0	74.5	13.6	90.00	753.9	2,834.8	3,267.6	3,185.0	82.57	39.573	
11,600.0	7,740.0	7,789.0	7,789.0	76.1	13.6	90.00	753.9	2,834.8	3,360.2	3,275.9	84.29	39.864	
11,700.0	7,740.0	7,789.0	7,789.0	77.7	13.6	90.00	753.9	2,834.8	3,453.3	3,367.2	86.02	40.147	
11,800.0	7,740.0	7,789.0	7,789.0	79.3	13.6	90.00	753.9	2,834.8	3,546.7	3,458.9	87.74	40.422	
11,900.0	7,740.0	7,789.0	7,789.0	80.9	13.6	90.00	753.9	2,834.8	3,640.4	3,551.0	89.47	40.690	
12,000.0	7,740.0	7,789.0	7,789.0	82.5	13.6	90.00	753.9	2,834.8	3,734.5	3,643.3	91.20	40.951	
12,100.0	7,740.0	7,789.0	7,789.0	84.2	13.6	90.00	753.9	2,834.8	3,828.9	3,736.0	92.92	41.205	
12,200.0	7,740.0	7,789.0	7,789.0	85.8	13.6	90.00	753.9	2,834.8	3,923.6	3,828.9	94.65	41.452	
12,300.0	7,740.0	7,789.0	7,789.0	87.4	13.6	90.00	753.9	2,834.8	4,018.5	3,922.1	96.38	41.692	
12,400.0	7,740.0	7,789.0	7,789.0	89.1	13.6	90.00	753.9	2,834.8	4,113.7	4,015.5	98.12	41.926	
12,500.0	7,740.0	7,789.0	7,789.0	90.7	13.6	90.00	753.9	2,834.8	4,209.0	4,109.2	99.85	42.154	
12,600.0	7,740.0	7,789.0	7,789.0	92.4	13.6	90.00	753.9	2,834.8	4,304.6	4,203.1	101.58	42.376	
12,700.0	7,740.0	7,789.0	7,789.0	94.0	13.6	90.00	753.9	2,834.8	4,400.4	4,297.1	103.32	42.591	
12,800.0	7,740.0	7,789.0	7,789.0	95.7	13.6	90.00	753.9	2,834.8	4,496.4	4,391.4	105.05	42.802	
12,900.0	7,740.0	7,789.0	7,789.0	97.3	13.6	90.00	753.9	2,834.8	4,592.6	4,485.8	106.79	43.006	
13,000.0	7,740.0	7,789.0	7,789.0	99.0	13.6	90.00	753.9	2,834.8	4,688.9	4,580.3	108.52	43.206	
13,100.0	7,740.0	7,789.0	7,789.0	100.7	13.6	90.00	753.9	2,834.8	4,785.3	4,675.1	110.26	43.400	
13,200.0	7,740.0	7,789.0	7,789.0	102.3	13.6	90.00	753.9	2,834.8	4,881.9	4,769.9	112.00	43.589	
13,300.0	7,740.0	7,789.0	7,789.0	104.0	13.6	90.00	753.9	2,834.8	4,978.7	4,864.9	113.74	43.773	
13,400.0	7,740.0	7,789.0	7,789.0	105.7	13.6	90.00	753.9	2,834.8	5,075.5	4,960.1	115.48	43.953	
13,500.0	7,740.0	7,789.0	7,789.0	107.3	13.6	90.00	753.9	2,834.8	5,172.5	5,055.3	117.22	44.128	
13,600.0	7,740.0	7,789.0	7,789.0	109.0	13.6	90.00	753.9	2,834.8	5,269.6	5,150.7	118.96	44.299	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	33.5	33.5	0.0	0.1	42.78	801.8	742.0	1,092.5					
100.0	100.0	123.2	123.2	0.2	0.2	42.81	802.0	743.1	1,093.4	1,093.1	0.37	2,968.688		
200.0	200.0	221.9	221.9	0.3	0.4	42.88	802.3	745.0	1,095.0	1,094.2	0.72	1,528.479		
250.0	250.0	278.5	278.5	0.4	0.5	42.91	802.4	745.9	1,095.5	1,094.6	0.90	1,213.959		
300.0	300.0	333.3	333.2	0.5	0.6	-57.09	802.4	746.3	1,095.7	1,094.7	1.08	1,010.113		
400.0	400.0	436.2	436.2	0.7	0.8	-57.17	802.6	746.5	1,095.0	1,093.5	1.44	760.556		
500.0	499.9	535.7	535.7	0.9	0.9	-57.35	803.0	746.4	1,093.4	1,091.6	1.79	609.904		
600.0	599.8	639.3	639.3	1.1	1.1	-57.62	803.1	746.3	1,090.5	1,088.4	2.16	504.897		
700.0	699.5	743.4	743.4	1.3	1.3	-57.99	803.0	746.0	1,086.6	1,084.0	2.54	428.248		
800.0	799.2	846.7	846.6	1.5	1.5	-58.48	802.9	744.8	1,081.1	1,078.2	2.93	369.560		
900.0	898.6	946.0	945.9	1.7	1.7	-59.07	803.1	743.4	1,074.9	1,071.6	3.32	323.570		
1,000.0	997.9	1,047.3	1,047.2	2.0	1.8	-59.74	802.8	742.2	1,067.6	1,063.9	3.74	285.456		
1,100.0	1,096.9	1,147.3	1,147.3	2.3	2.0	-60.50	802.4	741.0	1,059.6	1,055.4	4.18	253.688		
1,200.0	1,195.7	1,247.6	1,247.5	2.6	2.2	-61.39	802.1	739.3	1,050.6	1,046.0	4.64	226.557		
1,300.0	1,294.1	1,342.7	1,342.6	2.9	2.3	-62.34	801.9	737.6	1,041.1	1,035.9	5.11	203.537		
1,400.0	1,392.3	1,435.9	1,435.8	3.3	2.5	-63.38	802.2	736.1	1,031.5	1,025.9	5.62	183.619		
1,500.0	1,490.1	1,533.7	1,533.6	3.7	2.7	-64.58	802.8	734.6	1,021.7	1,015.6	6.16	165.862		
1,600.0	1,587.5	1,631.0	1,630.9	4.1	2.9	-65.88	803.1	733.0	1,011.4	1,004.7	6.74	150.173		
1,700.0	1,684.6	1,722.6	1,722.5	4.5	3.0	-67.22	803.8	731.7	1,001.4	994.0	7.33	136.533		
1,750.0	1,732.9	1,770.3	1,770.1	4.8	3.1	-67.95	804.2	731.1	996.4	988.7	7.65	130.272		
1,800.0	1,781.2	1,818.2	1,818.0	5.0	3.2	-66.77	804.7	730.5	991.3	983.3	7.96	124.516		
1,900.0	1,877.8	1,913.9	1,913.7	5.5	3.3	-64.39	805.7	729.1	980.5	971.9	8.58	114.212		
1,981.2	1,956.2	1,988.7	1,988.5	5.9	3.5	-62.43	806.6	728.0	971.2	962.1	9.08	106.898		
2,000.0	1,974.4	2,005.9	2,005.7	6.0	3.5	-62.66	806.9	727.8	969.0	959.8	9.20	105.295		
2,100.0	2,071.3	2,096.0	2,095.8	6.4	3.7	-63.85	808.5	726.8	958.7	948.9	9.81	97.770		
2,181.5	2,150.7	2,171.8	2,171.5	6.7	3.8	-64.81	810.1	726.4	951.6	941.3	10.29	92.487		
2,200.0	2,168.6	2,189.0	2,188.8	6.8	3.8	-65.04	810.5	726.3	950.2	939.8	10.40	91.371		
2,300.0	2,266.1	2,285.2	2,284.9	7.3	4.0	-66.31	812.8	725.9	942.7	931.7	11.00	85.680		
2,400.0	2,363.5	2,386.8	2,386.5	7.7	4.2	-67.66	814.9	725.7	935.6	924.0	11.62	80.501		
2,500.0	2,461.0	2,489.9	2,489.6	8.1	4.4	-69.04	816.5	725.5	928.5	916.2	12.25	75.799		
2,600.0	2,558.4	2,588.8	2,588.5	8.6	4.5	-70.37	817.6	725.3	921.4	908.6	12.87	71.592		
2,700.0	2,655.8	2,688.6	2,688.3	9.0	4.7	-71.74	818.5	724.9	914.7	901.2	13.50	67.769		
2,800.0	2,753.3	2,785.3	2,785.0	9.4	4.9	-73.09	819.3	724.5	908.4	894.3	14.12	64.332		
2,900.0	2,850.7	2,884.2	2,883.9	9.9	5.1	-74.48	820.1	724.1	902.6	887.9	14.75	61.193		
3,000.0	2,948.2	2,980.7	2,980.3	10.3	5.2	-75.88	820.9	723.2	897.3	881.9	15.38	58.351		
3,100.0	3,045.6	3,079.0	3,078.7	10.7	5.4	-77.35	821.8	722.0	892.6	876.6	16.01	55.754		
3,200.0	3,143.0	3,177.9	3,177.5	11.2	5.6	-78.84	822.6	720.8	888.3	871.7	16.64	53.378		
3,300.0	3,240.5	3,273.9	3,273.6	11.6	5.7	-80.31	823.3	719.3	884.6	867.3	17.27	51.227		
3,400.0	3,337.9	3,367.8	3,367.4	12.0	5.9	-81.77	824.3	717.8	881.8	863.9	17.89	49.296		
3,500.0	3,435.3	3,463.2	3,462.8	12.5	6.1	-83.24	825.6	716.6	879.9	861.4	18.51	47.549		
3,600.0	3,532.8	3,556.1	3,555.7	12.9	6.2	-84.64	826.9	716.0	878.9	859.8	19.11	45.982		
3,630.0	3,562.0	3,583.3	3,582.9	13.0	6.3	-85.05	827.4	715.9	878.8	859.5	19.29	45.550 CC		
3,700.0	3,630.2	3,647.2	3,646.7	13.3	6.4	-86.00	828.9	715.8	879.1	859.4	19.71	44.595 ES		
3,800.0	3,727.7	3,742.7	3,742.3	13.8	6.6	-87.40	831.4	715.9	880.6	860.3	20.32	43.340		
3,900.0	3,825.1	3,847.5	3,847.0	14.2	6.8	-88.97	833.9	715.4	882.2	861.3	20.93	42.150		
4,000.0	3,922.5	3,951.8	3,951.3	14.6	6.9	-90.53	835.3	714.8	883.5	861.9	21.54	41.024		
4,100.0	4,020.0	4,054.8	4,054.3	15.1	7.1	-92.10	836.1	713.7	884.8	862.7	22.13	39.983		
4,200.0	4,117.4	4,152.6	4,152.0	15.5	7.3	-93.63	836.3	711.9	886.2	863.5	22.71	39.027		
4,300.0	4,214.9	4,249.9	4,249.4	16.0	7.5	-95.17	836.7	709.8	888.6	865.3	23.27	38.178		
4,400.0	4,312.3	4,349.9	4,349.3	16.4	7.6	-96.71	836.7	708.2	891.1	867.3	23.83	37.389		
4,500.0	4,409.7	4,443.3	4,442.7	16.8	7.8	-98.13	836.8	706.9	894.3	870.0	24.38	36.691		
4,600.0	4,507.2	4,532.3	4,531.7	17.3	8.0	-99.53	837.3	704.7	898.9	874.0	24.90	36.100		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 100-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,700.0	4,604.6	4,624.6	4,624.0	17.7	8.1	-100.95	838.8	702.4	905.0	879.6	25.42	35.604		
4,800.0	4,702.0	4,729.4	4,728.8	18.1	8.3	-102.53	840.0	700.3	911.3	885.3	25.94	35.134		
4,900.0	4,799.5	4,830.5	4,829.8	18.6	8.5	-104.03	840.8	698.2	917.8	891.3	26.44	34.713		
5,000.0	4,896.9	4,936.3	4,935.6	19.0	8.7	-105.54	840.7	696.9	923.9	897.0	26.93	34.303		
5,100.0	4,994.4	5,031.3	5,030.6	19.4	8.8	-106.89	840.3	695.7	930.3	902.9	27.41	33.941		
5,200.0	5,091.8	5,122.5	5,121.8	19.9	9.0	-108.17	840.5	694.3	937.8	909.9	27.87	33.647		
5,300.0	5,189.2	5,217.0	5,216.2	20.3	9.2	-109.48	840.9	692.6	946.3	918.0	28.32	33.410		
5,400.0	5,286.7	5,315.5	5,314.7	20.8	9.3	-110.85	841.3	690.5	955.3	926.6	28.76	33.212		
5,500.0	5,384.1	5,412.8	5,412.0	21.2	9.5	-112.13	841.9	689.2	964.9	935.7	29.20	33.046		
5,600.0	5,481.6	5,513.3	5,512.5	21.6	9.7	-113.42	842.4	688.1	974.6	945.0	29.62	32.902		
5,700.0	5,579.0	5,607.5	5,606.7	22.1	9.9	-114.60	842.8	687.0	984.8	954.8	30.03	32.790		
5,800.0	5,676.4	5,701.3	5,700.5	22.5	10.0	-115.78	843.4	685.5	995.9	965.4	30.44	32.719		
5,900.0	5,773.9	5,799.7	5,798.9	22.9	10.2	-117.01	843.9	683.5	1,007.4	976.6	30.83	32.682		
6,000.0	5,871.3	5,895.1	5,894.3	23.4	10.4	-118.19	844.3	681.4	1,019.5	988.3	31.20	32.670		
6,100.0	5,968.7	5,993.6	5,992.7	23.8	10.5	-119.36	844.8	679.4	1,032.0	1,000.4	31.58	32.682		
6,200.0	6,066.2	6,093.1	6,092.2	24.3	10.7	-120.53	845.0	677.3	1,044.7	1,012.7	31.94	32.712		
6,300.0	6,163.6	6,190.1	6,189.1	24.7	10.9	-121.67	844.9	674.9	1,057.7	1,025.4	32.28	32.762		
6,400.0	6,261.1	6,287.5	6,286.5	25.1	11.1	-122.79	844.8	672.5	1,071.1	1,038.5	32.62	32.832		
6,500.0	6,358.5	6,385.8	6,384.8	25.6	11.2	-123.87	844.8	670.5	1,084.8	1,051.9	32.96	32.915		
6,600.0	6,455.9	6,473.6	6,472.6	26.0	11.4	-124.80	845.2	668.8	1,099.2	1,065.9	33.30	33.013		
6,700.0	6,553.4	6,577.5	6,576.5	26.5	11.6	-125.85	846.2	666.9	1,114.3	1,080.7	33.62	33.141		
6,800.0	6,650.8	6,673.8	6,672.8	26.9	11.8	-126.78	846.8	665.8	1,129.1	1,095.1	33.95	33.256		
6,900.0	6,748.3	6,776.4	6,775.4	27.3	11.9	-127.75	847.4	664.4	1,144.3	1,110.0	34.27	33.389		
7,000.0	6,845.7	6,870.8	6,869.8	27.8	12.1	-128.64	847.6	663.1	1,159.3	1,124.8	34.59	33.520		
7,100.0	6,943.1	6,961.3	6,960.3	28.2	12.3	-129.49	847.8	661.2	1,175.2	1,140.3	34.89	33.680		
7,200.0	7,040.6	7,067.0	7,065.9	28.6	12.4	-130.45	848.2	658.9	1,191.6	1,156.4	35.19	33.864		
7,300.0	7,138.0	7,163.2	7,162.1	29.1	12.6	-131.31	847.9	657.3	1,207.4	1,171.9	35.48	34.027		
7,341.8	7,178.7	7,200.0	7,198.9	29.3	12.7	-131.65	847.7	656.4	1,214.3	1,178.7	35.61	34.103		
7,350.0	7,186.7	7,207.8	7,206.6	29.3	12.7	-128.08	847.7	656.2	1,215.6	1,179.9	35.66	34.084		
7,400.0	7,235.4	7,255.8	7,254.7	29.5	12.8	-107.81	847.4	654.8	1,221.8	1,185.9	35.90	34.032		
7,450.0	7,283.6	7,304.6	7,303.4	29.7	12.9	-92.55	846.9	653.1	1,224.8	1,188.9	35.91	34.109		
7,500.0	7,331.0	7,367.6	7,366.4	29.9	13.0	-82.75	845.4	650.7	1,224.4	1,188.8	35.66	34.338		
7,550.0	7,377.4	7,513.6	7,511.9	30.1	13.2	-78.67	834.9	647.7	1,219.1	1,184.2	34.89	34.938		
7,600.0	7,422.2	7,549.6	7,547.8	30.3	13.3	-75.03	831.8	648.5	1,209.3	1,175.0	34.33	35.229		
7,650.0	7,465.2	7,584.8	7,582.8	30.5	13.3	-73.10	829.3	649.5	1,197.3	1,163.6	33.66	35.566		
7,700.0	7,506.0	7,600.0	7,598.0	30.7	13.4	-71.84	828.5	650.1	1,183.5	1,150.4	33.02	35.839		
7,750.0	7,544.4	7,640.7	7,638.6	30.9	13.4	-72.28	826.6	651.4	1,167.7	1,135.5	32.27	36.192		
7,800.0	7,580.0	7,664.7	7,662.6	31.1	13.5	-72.96	825.7	652.1	1,150.8	1,119.2	31.61	36.412		
7,850.0	7,612.6	7,700.0	7,697.9	31.3	13.5	-74.71	824.8	652.8	1,132.9	1,101.9	30.99	36.561		
7,900.0	7,641.9	7,709.7	7,707.6	31.5	13.5	-75.89	824.6	653.0	1,113.9	1,083.4	30.55	36.461		
7,950.0	7,667.7	7,734.6	7,732.5	31.7	13.6	-78.15	824.2	653.4	1,094.4	1,064.2	30.21	36.226		
8,000.0	7,689.8	7,756.0	7,753.9	32.0	13.6	-80.58	823.8	653.8	1,074.4	1,044.4	30.02	35.796		
8,050.0	7,708.0	7,773.7	7,771.5	32.2	13.7	-83.08	823.6	654.1	1,054.5	1,024.5	29.96	35.200		
8,100.0	7,722.3	7,787.4	7,785.3	32.4	13.7	-85.52	823.4	654.4	1,034.9	1,004.9	30.01	34.480		
8,150.0	7,732.4	7,797.1	7,795.0	32.7	13.7	-87.81	823.3	654.6	1,016.0	985.9	30.16	33.683		
8,200.0	7,738.3	7,800.0	7,797.9	33.0	13.7	-89.71	823.3	654.7	998.1	967.7	30.38	32.853		
8,244.9	7,740.0	7,803.6	7,801.5	33.2	13.7	-91.45	823.2	654.8	983.1	952.5	30.64	32.089		
8,300.0	7,740.0	7,803.1	7,800.9	33.5	13.7	-91.41	823.2	654.8	966.8	935.5	31.25	30.933		
8,400.0	7,740.0	7,802.0	7,799.9	34.1	13.7	-91.35	823.2	654.7	944.7	912.2	32.45	29.114		
8,500.0	7,740.0	7,800.0	7,797.9	34.8	13.7	-91.22	823.3	654.7	932.8	899.1	33.72	27.663		
8,561.4	7,740.0	7,800.0	7,797.9	35.3	13.7	-91.22	823.3	654.7	930.8	896.2	34.55	26.943		
8,600.0	7,740.0	7,799.9	7,797.8	35.6	13.7	-91.22	823.3	654.7	931.6	896.5	35.06	26.567		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL													Offset Site Error:	0.0 ft
Survey Program: 100-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		
8,700.0	7,740.0	7,798.8	7,796.6	36.5	13.7	-91.15	823.3	654.7	941.0	904.6	36.46	25.808		
8,800.0	7,740.0	7,797.6	7,795.4	37.4	13.7	-91.07	823.3	654.6	960.9	922.9	37.91	25.348		
8,900.0	7,740.0	7,796.4	7,794.2	38.3	13.7	-91.00	823.3	654.6	990.4	951.0	39.39	25.145 SF		
9,000.0	7,740.0	7,795.1	7,793.0	39.4	13.7	-90.92	823.3	654.6	1,028.9	988.0	40.90	25.155		
9,100.0	7,740.0	7,793.9	7,791.7	40.4	13.7	-90.84	823.3	654.6	1,075.3	1,032.9	42.44	25.335		
9,200.0	7,740.0	7,792.6	7,790.4	41.6	13.7	-90.77	823.3	654.5	1,128.7	1,084.7	44.01	25.648		
9,300.0	7,740.0	7,791.2	7,789.1	42.7	13.7	-90.68	823.4	654.5	1,188.2	1,142.6	45.59	26.061		
9,400.0	7,740.0	7,789.9	7,787.8	43.9	13.7	-90.60	823.4	654.5	1,252.8	1,205.6	47.19	26.546		
9,500.0	7,740.0	7,788.5	7,786.4	45.2	13.7	-90.52	823.4	654.4	1,321.8	1,273.0	48.81	27.082		
9,600.0	7,740.0	7,787.1	7,785.0	46.4	13.7	-90.43	823.4	654.4	1,394.6	1,344.1	50.43	27.651		
9,700.0	7,740.0	7,785.7	7,783.5	47.7	13.7	-90.34	823.4	654.4	1,470.6	1,418.5	52.07	28.240		
9,800.0	7,740.0	7,784.2	7,782.1	49.1	13.7	-90.25	823.4	654.4	1,549.3	1,495.5	53.72	28.839		
9,900.0	7,740.0	7,782.7	7,780.5	50.4	13.7	-90.16	823.5	654.3	1,630.3	1,574.9	55.38	29.440		
10,000.0	7,740.0	7,781.1	7,779.0	51.8	13.7	-90.06	823.5	654.3	1,713.3	1,656.3	57.04	30.038		
10,100.0	7,740.0	7,779.5	7,777.4	53.2	13.7	-89.96	823.5	654.3	1,798.1	1,739.4	58.71	30.627		
10,200.0	7,740.0	7,777.9	7,775.8	54.6	13.7	-89.86	823.5	654.2	1,884.4	1,824.0	60.38	31.206		
10,300.0	7,740.0	7,776.3	7,774.1	56.1	13.7	-89.76	823.5	654.2	1,971.9	1,909.9	62.07	31.772		
10,400.0	7,740.0	7,774.6	7,772.4	57.6	13.7	-89.66	823.6	654.2	2,060.6	1,996.9	63.75	32.323		
10,500.0	7,740.0	7,772.8	7,770.7	59.0	13.7	-89.55	823.6	654.1	2,150.3	2,084.9	65.44	32.860		
10,600.0	7,740.0	7,771.0	7,768.9	60.5	13.7	-89.44	823.6	654.1	2,240.9	2,173.7	67.13	33.380		
10,700.0	7,740.0	7,769.2	7,767.1	62.0	13.6	-89.33	823.6	654.0	2,332.2	2,263.4	68.83	33.885		
10,800.0	7,740.0	7,767.3	7,765.2	63.5	13.6	-89.21	823.7	654.0	2,424.2	2,353.7	70.53	34.373		
10,900.0	7,740.0	7,765.4	7,763.3	65.1	13.6	-89.09	823.7	654.0	2,516.8	2,444.6	72.23	34.846		
11,000.0	7,740.0	7,763.4	7,761.3	66.6	13.6	-88.97	823.7	653.9	2,610.0	2,536.1	73.93	35.303		
11,100.0	7,740.0	7,761.4	7,759.2	68.2	13.6	-88.85	823.7	653.9	2,703.6	2,628.0	75.64	35.745		
11,200.0	7,740.0	7,759.3	7,757.2	69.7	13.6	-88.72	823.8	653.9	2,797.7	2,720.4	77.34	36.173		
11,300.0	7,740.0	7,757.1	7,755.0	71.3	13.6	-88.59	823.8	653.8	2,892.2	2,813.2	79.05	36.587		
11,400.0	7,740.0	7,754.9	7,752.8	72.9	13.6	-88.45	823.8	653.8	2,987.1	2,906.3	80.76	36.987		
11,500.0	7,740.0	7,752.6	7,750.5	74.5	13.6	-88.31	823.9	653.7	3,082.2	2,999.8	82.47	37.374		
11,600.0	7,740.0	7,750.3	7,748.2	76.1	13.6	-88.17	823.9	653.7	3,177.7	3,093.5	84.18	37.748		
11,700.0	7,740.0	7,747.9	7,745.8	77.7	13.6	-88.02	824.0	653.6	3,273.4	3,187.5	85.89	38.111		
11,800.0	7,740.0	7,745.4	7,743.3	79.3	13.6	-87.87	824.0	653.6	3,369.4	3,281.8	87.60	38.462		
11,900.0	7,740.0	7,742.9	7,740.7	80.9	13.6	-87.71	824.0	653.5	3,465.6	3,376.3	89.32	38.802		
12,000.0	7,740.0	7,740.2	7,738.1	82.5	13.6	-87.55	824.1	653.5	3,562.0	3,471.0	91.03	39.131		
12,100.0	7,740.0	7,737.5	7,735.4	84.2	13.6	-87.38	824.1	653.4	3,658.6	3,565.9	92.74	39.451		
12,200.0	7,740.0	7,734.2	7,732.1	85.8	13.1	-71.42	839.7	647.5	3,754.8	3,665.2	94.56	41.923		
12,300.0	7,740.0	7,731.8	7,729.7	87.4	13.1	-71.23	839.9	647.5	3,851.4	3,760.2	96.31	42.271		
12,400.0	7,740.0	7,729.1	7,727.0	89.1	13.1	-71.05	840.2	647.6	3,948.1	3,855.4	98.06	42.609		
12,500.0	7,740.0	7,726.4	7,724.3	90.7	13.1	-70.88	840.5	647.6	4,044.9	3,950.7	99.81	42.937		
12,600.0	7,740.0	7,723.7	7,721.6	92.4	13.1	-70.72	840.7	647.7	4,142.0	4,046.2	101.56	43.255		
12,700.0	7,740.0	7,721.0	7,718.9	94.0	13.1	-70.57	840.9	647.7	4,239.1	4,141.8	103.31	43.565		
12,800.0	7,740.0	7,718.3	7,716.2	95.7	13.1	-70.42	841.1	647.8	4,336.4	4,237.5	105.06	43.866		
12,900.0	7,740.0	7,715.6	7,713.5	97.3	13.1	-70.27	841.3	647.8	4,433.8	4,333.4	106.81	44.158		
13,000.0	7,740.0	7,712.9	7,710.8	99.0	13.1	-70.13	841.5	647.9	4,531.3	4,429.3	108.56	44.442		
13,100.0	7,740.0	7,710.2	7,708.1	100.7	13.1	-70.00	841.7	647.9	4,628.9	4,525.4	110.31	44.719		
13,200.0	7,740.0	7,707.5	7,705.4	102.3	13.1	-69.87	841.8	648.0	4,726.6	4,621.5	112.06	44.988		
13,300.0	7,740.0	7,704.8	7,702.7	104.0	13.1	-69.75	842.0	648.1	4,824.4	4,717.7	113.81	45.250		
13,400.0	7,740.0	7,702.1	7,700.0	105.7	13.0	-67.94	844.0	649.3	4,922.5	4,815.6	115.56	45.512		
13,500.0	7,740.0	7,700.0	7,697.9	107.3	13.0	-67.94	844.0	649.3	5,020.5	4,911.9	117.31	45.774		
13,600.0	7,740.0	7,697.9	7,695.8	109.0	13.0	-67.94	844.0	649.3	5,118.5	5,008.2	119.06	46.036		
13,700.0	7,740.0	7,695.8	7,693.7	110.7	13.0	-67.94	844.0	649.3	5,216.5	5,104.7	120.81	46.298		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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	-89.65	0.4	-59.9	59.9				
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.4	-59.9	59.9	59.6	0.30	197.227	
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.4	-59.9	59.9	59.2	0.65	91.758	CC, ES
250.0	250.0	249.6	249.6	0.4	0.4	-89.75	0.3	-60.1	60.1	59.3	0.83	72.661	
300.0	300.0	299.1	299.1	0.5	0.5	169.98	-0.1	-60.6	60.9	59.9	1.00	60.831	
400.0	400.0	398.1	398.0	0.7	0.7	169.10	-1.3	-62.9	64.8	63.5	1.35	48.068	
500.0	499.9	496.8	496.6	0.9	0.9	167.95	-3.5	-66.5	72.0	70.3	1.70	42.429	
600.0	599.8	595.0	594.7	1.1	1.1	166.74	-6.4	-71.7	82.5	80.4	2.05	40.278	
700.0	699.5	694.1	693.6	1.3	1.3	166.25	-9.1	-77.7	95.5	93.1	2.40	39.837	
800.0	799.2	793.1	792.3	1.5	1.5	166.76	-10.5	-83.8	110.1	107.4	2.74	40.126	
900.0	898.6	891.7	890.8	1.7	1.7	167.35	-11.9	-89.8	126.4	123.3	3.09	40.905	
1,000.0	997.9	990.1	989.0	2.0	1.9	167.95	-13.2	-95.8	144.4	141.0	3.44	42.031	
1,100.0	1,096.9	1,088.1	1,086.8	2.3	2.1	168.52	-14.5	-101.8	164.1	160.4	3.78	43.411	
1,200.0	1,195.7	1,185.8	1,184.3	2.6	2.3	169.07	-15.8	-107.8	185.5	181.4	4.12	44.987	
1,300.0	1,294.1	1,283.0	1,281.4	2.9	2.5	169.58	-17.1	-113.7	208.6	204.2	4.47	46.715	
1,400.0	1,392.3	1,379.9	1,378.0	3.3	2.6	170.06	-18.4	-119.7	233.4	228.6	4.81	48.567	
1,500.0	1,490.1	1,476.3	1,474.3	3.7	2.8	170.50	-19.7	-125.6	259.8	254.7	5.14	50.522	
1,600.0	1,587.5	1,572.3	1,570.0	4.1	3.0	170.91	-21.0	-131.5	288.0	282.5	5.48	52.562	
1,700.0	1,684.6	1,667.7	1,665.3	4.5	3.2	171.29	-22.3	-137.3	317.7	311.9	5.81	54.677	
1,750.0	1,732.9	1,715.2	1,712.7	4.8	3.3	171.46	-23.0	-140.2	333.3	327.3	5.98	55.761	
1,800.0	1,781.2	1,762.7	1,760.0	5.0	3.4	173.65	-23.6	-143.1	349.0	342.9	6.15	56.783	
1,900.0	1,877.8	1,857.6	1,854.7	5.5	3.6	177.78	-24.9	-148.9	380.6	374.1	6.48	58.715	
1,981.2	1,956.2	1,934.5	1,931.6	5.9	3.8	-179.07	-25.9	-153.6	406.3	399.5	6.75	60.169	
2,000.0	1,974.4	1,952.4	1,949.4	6.0	3.8	-179.13	-26.2	-154.7	412.2	405.4	6.82	60.450	
2,100.0	2,071.3	2,047.6	2,044.4	6.4	4.0	-179.38	-27.4	-160.5	442.8	435.6	7.17	61.713	
2,181.5	2,150.7	2,125.6	2,122.3	6.7	4.2	-179.56	-28.5	-165.3	466.4	459.0	7.46	62.486	
2,200.0	2,168.6	2,143.3	2,139.9	6.8	4.2	-179.60	-28.7	-166.4	471.7	464.2	7.53	62.661	
2,300.0	2,266.1	2,239.2	2,235.6	7.3	4.4	-179.79	-30.0	-172.3	500.1	492.2	7.87	63.559	
2,400.0	2,363.5	2,335.1	2,331.3	7.7	4.6	-179.96	-31.3	-178.1	528.4	520.2	8.21	64.382	
2,500.0	2,461.0	2,430.9	2,427.0	8.1	4.8	179.89	-32.6	-184.0	556.8	548.3	8.55	65.140	
2,600.0	2,558.4	2,526.8	2,522.7	8.6	5.0	179.75	-33.9	-189.9	585.2	576.3	8.89	65.840	
2,700.0	2,655.8	2,622.7	2,618.4	9.0	5.2	179.63	-35.2	-195.8	613.6	604.4	9.23	66.488	
2,800.0	2,753.3	2,718.6	2,714.1	9.4	5.4	179.51	-36.5	-201.6	642.0	632.4	9.57	67.090	
2,900.0	2,850.7	2,814.5	2,809.7	9.9	5.6	179.41	-37.8	-207.5	670.4	660.5	9.91	67.651	
3,000.0	2,948.2	2,910.3	2,905.4	10.3	5.8	179.31	-39.1	-213.4	698.8	688.6	10.25	68.175	
3,100.0	3,045.6	3,006.2	3,001.1	10.7	6.0	179.23	-40.4	-219.2	727.2	716.6	10.59	68.665	
3,200.0	3,143.0	3,102.1	3,096.8	11.2	6.2	179.14	-41.7	-225.1	755.6	744.7	10.93	69.124	
3,300.0	3,240.5	3,198.0	3,192.5	11.6	6.4	179.07	-42.9	-231.0	784.0	772.8	11.27	69.556	
3,400.0	3,337.9	3,293.8	3,288.2	12.0	6.6	179.00	-44.2	-236.8	812.4	800.8	11.61	69.962	
3,500.0	3,435.3	3,389.7	3,383.9	12.5	6.8	178.93	-45.5	-242.7	840.8	828.9	11.95	70.345	
3,600.0	3,532.8	3,485.6	3,479.6	12.9	7.0	178.87	-46.8	-248.6	869.2	857.0	12.29	70.707	
3,700.0	3,630.2	3,581.5	3,575.2	13.3	7.2	178.81	-48.1	-254.4	897.7	885.0	12.63	71.050	
3,800.0	3,727.7	3,677.3	3,670.9	13.8	7.4	178.76	-49.4	-260.3	926.1	913.1	12.97	71.374	
3,900.0	3,825.1	3,773.2	3,766.6	14.2	7.6	178.71	-50.7	-266.2	954.5	941.2	13.32	71.682	
4,000.0	3,922.5	3,869.1	3,862.3	14.6	7.8	178.66	-52.0	-272.1	982.9	969.2	13.66	71.975	
4,100.0	4,020.0	3,965.0	3,958.0	15.1	8.0	178.61	-53.3	-277.9	1,011.3	997.3	14.00	72.253	
4,200.0	4,117.4	4,060.8	4,053.7	15.5	8.2	178.57	-54.6	-283.8	1,039.7	1,025.4	14.34	72.518	
4,300.0	4,214.9	4,156.7	4,149.4	16.0	8.4	178.53	-55.9	-289.7	1,068.1	1,053.4	14.68	72.771	
4,400.0	4,312.3	4,252.6	4,245.1	16.4	8.6	178.49	-57.2	-295.5	1,096.5	1,081.5	15.02	73.012	
4,500.0	4,409.7	4,348.5	4,340.7	16.8	8.8	178.46	-58.5	-301.4	1,124.9	1,109.6	15.36	73.243	
4,600.0	4,507.2	4,444.3	4,436.4	17.3	9.0	178.42	-59.7	-307.3	1,153.4	1,137.7	15.70	73.464	
4,700.0	4,604.6	4,540.2	4,532.1	17.7	9.1	178.39	-61.0	-313.1	1,181.8	1,165.7	16.04	73.675	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,702.0	4,636.1	4,627.8	18.1	9.3	178.36	-62.3	-319.0	1,210.2	1,193.8	16.38	73.877	
4,900.0	4,799.5	4,732.0	4,723.5	18.6	9.5	178.33	-63.6	-324.9	1,238.6	1,221.9	16.72	74.072	
5,000.0	4,896.9	4,827.8	4,819.2	19.0	9.7	178.30	-64.9	-330.7	1,267.0	1,250.0	17.06	74.258	
5,100.0	4,994.4	4,923.7	4,914.9	19.4	9.9	178.27	-66.2	-336.6	1,295.4	1,278.0	17.40	74.437	
5,200.0	5,091.8	5,019.6	5,010.6	19.9	10.1	178.25	-67.5	-342.5	1,323.9	1,306.1	17.74	74.610	
5,300.0	5,189.2	5,115.5	5,106.2	20.3	10.3	178.22	-68.8	-348.4	1,352.3	1,334.2	18.08	74.776	
5,400.0	5,286.7	5,211.4	5,201.9	20.8	10.5	178.20	-70.1	-354.2	1,380.7	1,362.3	18.43	74.935	
5,500.0	5,384.1	5,307.2	5,297.6	21.2	10.7	178.17	-71.4	-360.1	1,409.1	1,390.3	18.77	75.089	
5,600.0	5,481.6	5,403.1	5,393.3	21.6	10.9	178.15	-72.7	-366.0	1,437.5	1,418.4	19.11	75.238	
5,700.0	5,579.0	5,499.0	5,489.0	22.1	11.1	178.13	-74.0	-371.8	1,465.9	1,446.5	19.45	75.381	
5,800.0	5,676.4	5,594.9	5,584.7	22.5	11.3	178.11	-75.3	-377.7	1,494.4	1,474.6	19.79	75.519	
5,900.0	5,773.9	5,690.7	5,680.4	22.9	11.5	178.09	-76.5	-383.6	1,522.8	1,502.6	20.13	75.653	
6,000.0	5,871.3	5,786.6	5,776.1	23.4	11.7	178.07	-77.8	-389.4	1,551.2	1,530.7	20.47	75.782	
6,100.0	5,968.7	5,882.5	5,871.7	23.8	11.9	178.05	-79.1	-395.3	1,579.6	1,558.8	20.81	75.907	
6,200.0	6,066.2	5,978.4	5,967.4	24.3	12.1	178.04	-80.4	-401.2	1,608.0	1,586.9	21.15	76.028	
6,300.0	6,163.6	6,074.2	6,063.1	24.7	12.3	178.02	-81.7	-407.0	1,636.4	1,614.9	21.49	76.145	
6,400.0	6,261.1	6,170.1	6,158.8	25.1	12.5	178.00	-83.0	-412.9	1,664.9	1,643.0	21.83	76.258	
6,500.0	6,358.5	6,266.0	6,254.5	25.6	12.7	177.99	-84.3	-418.8	1,693.3	1,671.1	22.17	76.368	
6,600.0	6,455.9	6,361.9	6,350.2	26.0	12.9	177.97	-85.6	-424.6	1,721.7	1,699.2	22.51	76.475	
6,700.0	6,553.4	6,457.7	6,445.9	26.5	13.1	177.96	-86.9	-430.5	1,750.1	1,727.3	22.85	76.578	
6,800.0	6,650.8	6,553.6	6,541.6	26.9	13.3	177.94	-88.2	-436.4	1,778.5	1,755.3	23.19	76.679	
6,900.0	6,748.3	6,649.5	6,637.2	27.3	13.5	177.93	-89.5	-442.3	1,807.0	1,783.4	23.54	76.776	
7,000.0	6,845.7	6,745.4	6,732.9	27.8	13.7	177.91	-90.8	-448.1	1,835.4	1,811.5	23.88	76.871	
7,100.0	6,943.1	6,841.2	6,828.6	28.2	13.9	177.90	-92.1	-454.0	1,863.8	1,839.6	24.22	76.963	
7,200.0	7,040.6	6,937.1	6,924.3	28.6	14.1	177.89	-93.3	-459.9	1,892.2	1,867.6	24.56	77.053	
7,300.0	7,138.0	7,033.0	7,020.0	29.1	14.3	177.88	-94.6	-465.7	1,920.6	1,895.7	24.90	77.140	
7,341.8	7,178.7	7,073.1	7,060.0	29.3	14.4	177.87	-95.2	-468.2	1,932.5	1,907.5	25.04	77.175	
7,350.0	7,186.7	7,080.9	7,067.8	29.3	14.4	-178.33	-95.3	-468.7	1,934.8	1,909.8	25.06	77.213	
7,400.0	7,235.4	7,128.8	7,115.6	29.5	14.5	-156.56	-95.9	-471.6	1,949.1	1,923.9	25.19	77.362	
7,450.0	7,283.6	7,176.3	7,163.0	29.7	14.6	-139.58	-96.6	-474.5	1,963.2	1,937.9	25.38	77.359	
7,500.0	7,331.0	7,227.8	7,214.4	29.9	14.7	-127.54	-94.7	-477.7	1,977.2	1,951.6	25.60	77.223	
7,550.0	7,377.4	7,280.4	7,266.4	30.1	14.8	-119.01	-88.1	-480.8	1,990.9	1,965.1	25.87	76.968	
7,600.0	7,422.2	7,334.2	7,318.8	30.3	14.9	-112.75	-76.3	-484.1	2,004.2	1,978.1	26.16	76.604	
7,650.0	7,465.2	7,389.2	7,371.0	30.5	14.9	-107.99	-59.3	-487.3	2,017.0	1,990.5	26.49	76.143	
7,700.0	7,506.0	7,445.5	7,422.4	30.7	15.0	-104.26	-36.8	-490.4	2,029.1	2,002.3	26.84	75.596	
7,750.0	7,544.4	7,503.1	7,472.6	30.9	15.1	-101.26	-8.6	-493.5	2,040.5	2,013.3	27.22	74.960	
7,800.0	7,580.0	7,562.1	7,520.8	31.1	15.3	-98.81	25.3	-496.4	2,051.1	2,023.5	27.63	74.232	
7,850.0	7,612.6	7,622.4	7,566.1	31.3	15.4	-96.79	64.9	-499.2	2,060.8	2,032.7	28.08	73.397	
7,900.0	7,641.9	7,684.0	7,607.9	31.5	15.6	-95.11	110.1	-501.8	2,069.4	2,040.9	28.57	72.432	
7,950.0	7,667.7	7,746.7	7,645.1	31.7	15.9	-93.72	160.3	-504.1	2,077.0	2,047.9	29.12	71.316	
8,000.0	7,689.8	7,810.3	7,677.2	32.0	16.2	-92.59	215.2	-506.0	2,083.5	2,053.7	29.76	70.009	
8,050.0	7,708.0	7,874.6	7,703.1	32.2	16.6	-91.67	274.0	-507.6	2,088.7	2,058.2	30.48	68.525	
8,100.0	7,722.3	7,939.3	7,722.5	32.4	17.1	-90.96	335.8	-508.8	2,092.6	2,061.3	31.29	66.888	
8,150.0	7,732.4	8,004.2	7,734.8	32.7	17.6	-90.44	399.4	-509.6	2,095.3	2,063.1	32.18	65.120	
8,200.0	7,738.3	8,069.0	7,739.9	33.0	18.2	-90.10	464.0	-509.9	2,096.6	2,063.5	33.14	63.263	
8,244.9	7,740.0	8,116.6	7,740.0	33.2	18.7	-90.00	511.6	-509.9	2,096.8	2,062.8	33.95	61.757	
8,300.0	7,740.0	8,171.8	7,740.0	33.5	19.3	-90.00	566.7	-509.9	2,096.5	2,061.3	35.20	59.555	
8,400.0	7,740.0	8,271.8	7,740.0	34.1	20.4	-90.00	666.7	-509.9	2,096.0	2,058.4	37.61	55.726	
8,500.0	7,740.0	8,371.8	7,740.0	34.8	21.6	-90.00	766.7	-509.9	2,095.4	2,055.3	40.18	52.147	
8,600.0	7,740.0	8,471.8	7,740.0	35.6	22.8	-90.00	866.7	-509.9	2,094.9	2,052.0	42.89	48.847	
8,700.0	7,740.0	8,571.8	7,740.0	36.5	24.2	-90.00	966.7	-509.9	2,094.4	2,048.7	45.70	45.828	
8,800.0	7,740.0	8,671.8	7,740.0	37.4	25.5	-90.00	1,066.7	-509.9	2,093.9	2,045.3	48.61	43.079	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2A-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				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)				
8,900.0	7,740.0	8,771.8	7,740.0	38.3	27.0	-90.00	1,166.7	-509.9	2,093.3	2,041.8	51.59	40.580		
9,000.0	7,740.0	8,871.8	7,740.0	39.4	28.4	-90.00	1,266.7	-509.9	2,092.8	2,038.2	54.63	38.311		
9,100.0	7,740.0	8,971.8	7,740.0	40.4	29.9	-90.00	1,366.7	-509.9	2,092.3	2,034.6	57.72	36.247		
9,200.0	7,740.0	9,071.8	7,740.0	41.6	31.4	-90.00	1,466.7	-509.9	2,091.8	2,030.9	60.86	34.368		
9,300.0	7,740.0	9,171.8	7,740.0	42.7	33.0	-90.00	1,566.7	-509.9	2,091.2	2,027.2	64.04	32.655		
9,400.0	7,740.0	9,271.8	7,740.0	43.9	34.5	-90.00	1,666.7	-509.9	2,090.7	2,023.5	67.25	31.088		
9,500.0	7,740.0	9,371.8	7,740.0	45.2	36.1	-90.00	1,766.7	-509.9	2,090.2	2,019.7	70.49	29.651		
9,600.0	7,740.0	9,471.8	7,740.0	46.4	37.7	-90.00	1,866.7	-509.9	2,089.7	2,015.9	73.76	28.332		
9,700.0	7,740.0	9,571.7	7,740.0	47.7	39.3	-90.00	1,966.7	-509.9	2,089.2	2,012.1	77.04	27.117		
9,800.0	7,740.0	9,671.7	7,740.0	49.1	41.0	-90.00	2,066.7	-509.9	2,088.6	2,008.3	80.35	25.995		
9,900.0	7,740.0	9,771.7	7,740.0	50.4	42.6	-90.00	2,166.7	-509.9	2,088.1	2,004.4	83.67	24.957		
10,000.0	7,740.0	9,871.7	7,740.0	51.8	44.2	-90.00	2,266.7	-509.9	2,087.6	2,000.6	87.00	23.994		
10,100.0	7,740.0	9,971.7	7,740.0	53.2	45.9	-90.00	2,366.7	-509.9	2,087.1	1,996.7	90.35	23.099		
10,200.0	7,740.0	10,071.7	7,740.0	54.6	47.5	-90.00	2,466.7	-509.9	2,086.5	1,992.8	93.71	22.265		
10,300.0	7,740.0	10,171.7	7,740.0	56.1	49.2	-90.00	2,566.7	-509.9	2,086.0	1,988.9	97.08	21.487		
10,400.0	7,740.0	10,271.7	7,740.0	57.6	50.9	-90.00	2,666.7	-509.9	2,085.5	1,985.0	100.46	20.759		
10,500.0	7,740.0	10,371.7	7,740.0	59.0	52.5	-90.00	2,766.7	-509.9	2,085.0	1,981.1	103.85	20.076		
10,600.0	7,740.0	10,471.7	7,740.0	60.5	54.2	-90.00	2,866.7	-509.9	2,084.4	1,977.2	107.25	19.436		
10,700.0	7,740.0	10,571.7	7,740.0	62.0	55.9	-90.00	2,966.7	-509.9	2,083.9	1,973.3	110.65	18.833		
10,800.0	7,740.0	10,671.7	7,740.0	63.5	57.6	-90.00	3,066.7	-509.9	2,083.4	1,969.3	114.06	18.266		
10,900.0	7,740.0	10,771.7	7,740.0	65.1	59.3	-90.00	3,166.7	-509.9	2,082.9	1,965.4	117.48	17.730		
11,000.0	7,740.0	10,871.7	7,740.0	66.6	61.0	-90.00	3,266.7	-509.9	2,082.3	1,961.4	120.90	17.224		
11,100.0	7,740.0	10,971.7	7,740.0	68.2	62.7	-90.00	3,366.7	-509.9	2,081.8	1,957.5	124.32	16.745		
11,200.0	7,740.0	11,071.7	7,740.0	69.7	64.4	-90.00	3,466.7	-509.9	2,081.3	1,953.5	127.75	16.292		
11,274.6	7,740.0	11,135.4	7,740.0	70.9	65.5	-90.00	3,530.4	-510.0	2,081.0	1,950.9	130.13	15.992		
11,300.0	7,740.0	11,154.1	7,740.0	71.3	65.8	-90.00	3,549.0	-510.1	2,081.1	1,950.2	130.88	15.900		
11,400.0	7,740.0	11,240.6	7,740.0	72.9	67.3	-90.00	3,635.6	-511.3	2,081.9	1,947.8	134.09	15.526		
11,500.0	7,740.0	11,340.6	7,740.0	74.5	69.0	-90.00	3,735.6	-512.8	2,082.8	1,945.3	137.53	15.144		
11,600.0	7,740.0	11,440.6	7,740.0	76.1	70.7	-90.00	3,835.6	-514.3	2,083.8	1,942.8	140.98	14.781		
11,700.0	7,740.0	11,540.6	7,740.0	77.7	72.4	-90.00	3,935.5	-515.7	2,084.8	1,940.3	144.42	14.435		
11,800.0	7,740.0	11,640.6	7,740.0	79.3	74.1	-90.00	4,035.5	-517.2	2,085.7	1,937.9	147.87	14.105		
11,900.0	7,740.0	11,740.6	7,740.0	80.9	75.8	-90.00	4,135.5	-518.7	2,086.7	1,935.4	151.33	13.789		
12,000.0	7,740.0	11,840.6	7,740.0	82.5	77.6	-90.00	4,235.5	-520.2	2,087.7	1,932.9	154.78	13.488		
12,100.0	7,740.0	11,940.6	7,740.0	84.2	79.3	-90.00	4,335.5	-521.7	2,088.7	1,930.4	158.24	13.199		
12,200.0	7,740.0	12,040.6	7,740.0	85.8	81.0	-90.00	4,435.5	-523.2	2,089.6	1,927.9	161.70	12.923		
12,300.0	7,740.0	12,140.6	7,740.0	87.4	82.7	-90.00	4,535.4	-524.7	2,090.6	1,925.4	165.16	12.658		
12,400.0	7,740.0	12,240.6	7,740.0	89.1	84.5	-90.00	4,635.4	-526.2	2,091.6	1,922.9	168.63	12.404		
12,500.0	7,740.0	12,340.6	7,740.0	90.7	86.2	-90.00	4,735.4	-527.7	2,092.5	1,920.4	172.09	12.159		
12,600.0	7,740.0	12,440.6	7,740.0	92.4	87.9	-90.00	4,835.4	-529.2	2,093.5	1,917.9	175.56	11.925		
12,700.0	7,740.0	12,540.6	7,740.0	94.0	89.6	-90.00	4,935.4	-530.7	2,094.5	1,915.4	179.03	11.699		
12,800.0	7,740.0	12,640.6	7,740.0	95.7	91.4	-90.00	5,035.4	-532.2	2,095.4	1,912.9	182.50	11.482		
12,900.0	7,740.0	12,740.6	7,740.0	97.3	93.1	-90.00	5,135.3	-533.7	2,096.4	1,910.4	185.97	11.273		
13,000.0	7,740.0	12,840.6	7,740.0	99.0	94.8	-90.00	5,235.3	-535.2	2,097.4	1,907.9	189.44	11.071		
13,100.0	7,740.0	12,940.6	7,740.0	100.7	96.6	-90.00	5,335.3	-536.7	2,098.4	1,905.4	192.92	10.877		
13,200.0	7,740.0	13,040.5	7,740.0	102.3	98.3	-90.00	5,435.3	-538.2	2,099.3	1,902.9	196.39	10.689		
13,300.0	7,740.0	13,140.5	7,740.0	104.0	100.0	-90.00	5,535.3	-539.6	2,100.3	1,900.4	199.87	10.508		
13,400.0	7,740.0	13,240.5	7,740.0	105.7	101.8	-90.00	5,635.3	-541.1	2,101.3	1,897.9	203.35	10.333		
13,500.0	7,740.0	13,340.5	7,740.0	107.3	103.5	-90.00	5,735.3	-542.6	2,102.2	1,895.4	206.83	10.164		
13,600.0	7,740.0	13,440.5	7,740.0	109.0	105.2	-90.00	5,835.2	-544.1	2,103.2	1,892.9	210.31	10.001		
13,700.0	7,740.0	13,540.5	7,740.0	110.7	107.0	-90.00	5,935.2	-545.6	2,104.2	1,890.4	213.79	9.842		
13,800.0	7,740.0	13,640.5	7,740.0	112.4	108.7	-90.00	6,035.2	-547.1	2,105.1	1,887.9	217.27	9.689		
13,900.0	7,740.0	13,740.5	7,740.0	114.1	110.5	-90.00	6,135.2	-548.6	2,106.1	1,885.4	220.75	9.541		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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		
14,000.0	7,740.0	13,840.5	7,740.0	115.8	112.2	-90.00	6,235.2	-550.1	2,107.1	1,882.9	224.23	9.397		
14,100.0	7,740.0	13,940.5	7,740.0	117.5	113.9	-90.00	6,335.2	-551.6	2,108.1	1,880.3	227.72	9.257		
14,200.0	7,740.0	14,040.5	7,740.0	119.2	115.7	-90.00	6,435.1	-553.1	2,109.0	1,877.8	231.20	9.122		
14,300.0	7,740.0	14,140.5	7,740.0	120.8	117.4	-90.00	6,535.1	-554.6	2,110.0	1,875.3	234.69	8.991		
14,400.0	7,740.0	14,240.5	7,740.0	122.5	119.2	-90.00	6,635.1	-556.1	2,111.0	1,872.8	238.17	8.863		
14,500.0	7,740.0	14,340.5	7,740.0	124.2	120.9	-90.00	6,735.1	-557.6	2,111.9	1,870.3	241.66	8.739		
14,600.0	7,740.0	14,440.5	7,740.0	125.9	122.6	-90.00	6,835.1	-559.1	2,112.9	1,867.8	245.15	8.619		
14,700.0	7,740.0	14,540.5	7,740.0	127.6	124.4	-90.00	6,935.1	-560.6	2,113.9	1,865.2	248.64	8.502		
14,800.0	7,740.0	14,640.5	7,740.0	129.3	126.1	-90.00	7,035.0	-562.1	2,114.9	1,862.7	252.13	8.388		
14,844.9	7,740.0	14,682.3	7,740.0	130.1	126.8	-90.00	7,076.8	-562.7	2,115.3	1,861.7	253.64	8.340 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.58	0.4	-49.8	49.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.58	0.4	-49.8	49.8	49.5	0.30	164.050		
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.4	-49.8	49.8	49.2	0.65	76.323		
250.0	250.0	250.0	250.0	0.4	0.4	-89.58	0.4	-49.8	49.8	49.0	0.83	60.221	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	170.47	0.4	-49.8	50.0	49.0	1.00	49.945		
400.0	400.0	399.4	399.4	0.7	0.7	170.05	-0.3	-50.4	52.3	51.0	1.35	38.747		
500.0	499.9	498.6	498.6	0.9	0.9	168.66	-2.3	-52.0	57.4	55.7	1.70	33.788		
600.0	599.8	597.6	597.5	1.1	1.0	166.71	-5.6	-54.8	65.5	63.4	2.05	31.890		
700.0	699.5	698.1	697.8	1.3	1.2	165.36	-9.1	-57.5	75.2	72.8	2.41	31.221		
800.0	799.2	798.7	798.5	1.5	1.4	165.28	-11.5	-58.9	85.1	82.4	2.76	30.829		
900.0	898.6	899.1	898.8	1.7	1.6	166.04	-12.8	-58.9	95.4	92.3	3.11	30.651		
1,000.0	997.9	998.4	998.1	2.0	1.7	166.98	-14.0	-58.6	107.0	103.6	3.46	30.932		
1,100.0	1,096.9	1,097.5	1,097.2	2.3	1.9	167.90	-15.1	-58.4	120.4	116.6	3.81	31.624		
1,200.0	1,195.7	1,196.3	1,196.0	2.6	2.1	168.78	-16.2	-58.1	135.5	131.4	4.15	32.628		
1,300.0	1,294.1	1,294.8	1,294.5	2.9	2.3	169.59	-17.3	-57.8	152.3	147.8	4.50	33.874		
1,400.0	1,392.3	1,393.1	1,392.8	3.3	2.4	170.34	-18.4	-57.6	170.9	166.0	4.84	35.315		
1,500.0	1,490.1	1,491.0	1,490.7	3.7	2.6	171.01	-19.5	-57.3	191.1	185.9	5.18	36.913		
1,600.0	1,587.5	1,588.5	1,588.2	4.1	2.8	171.63	-20.6	-57.1	213.1	207.6	5.51	38.642		
1,700.0	1,684.6	1,685.6	1,685.3	4.5	2.9	172.18	-21.7	-56.8	236.8	230.9	5.85	40.481		
1,750.0	1,732.9	1,734.1	1,733.7	4.8	3.0	172.43	-22.3	-56.7	249.2	243.2	6.01	41.437		
1,800.0	1,781.2	1,782.4	1,782.1	5.0	3.1	174.63	-22.8	-56.6	261.9	255.7	6.18	42.351		
1,900.0	1,877.8	1,879.1	1,878.8	5.5	3.3	178.71	-23.9	-56.3	287.4	280.9	6.52	44.057		
1,981.2	1,956.2	1,957.6	1,957.2	5.9	3.4	-178.23	-24.8	-56.1	308.1	301.3	6.80	45.327		
2,000.0	1,974.4	1,975.8	1,975.4	6.0	3.5	-178.30	-25.0	-56.0	312.9	306.0	6.86	45.578		
2,100.0	2,071.3	2,072.8	2,072.4	6.4	3.6	-178.62	-26.1	-55.8	337.3	330.1	7.22	46.690		
2,181.5	2,150.7	2,152.1	2,151.7	6.7	3.8	-178.85	-27.0	-55.6	355.9	348.4	7.52	47.353		
2,200.0	2,168.6	2,170.1	2,169.7	6.8	3.8	-178.89	-27.2	-55.5	360.0	352.5	7.58	47.495		
2,300.0	2,266.1	2,267.6	2,267.2	7.3	4.0	-179.13	-28.3	-55.3	382.2	374.3	7.93	48.228		
2,400.0	2,363.5	2,365.1	2,364.7	7.7	4.1	-179.33	-29.4	-55.0	404.4	396.1	8.27	48.901		
2,500.0	2,461.0	2,462.6	2,462.2	8.1	4.3	-179.52	-30.5	-54.8	426.6	418.0	8.62	49.520		
2,600.0	2,558.4	2,560.1	2,559.7	8.6	4.5	-179.68	-31.6	-54.5	448.8	439.9	8.96	50.091		
2,700.0	2,655.8	2,657.6	2,657.2	9.0	4.7	-179.84	-32.7	-54.2	471.0	461.7	9.31	50.621		
2,800.0	2,753.3	2,755.1	2,754.7	9.4	4.8	-179.97	-33.8	-54.0	493.2	483.6	9.65	51.112		
2,900.0	2,850.7	2,852.6	2,852.2	9.9	5.0	179.90	-34.9	-53.7	515.4	505.5	10.00	51.570		
3,000.0	2,948.2	2,950.1	2,949.7	10.3	5.2	179.79	-36.0	-53.5	537.7	527.3	10.34	51.997		
3,100.0	3,045.6	3,047.6	3,047.2	10.7	5.3	179.68	-37.1	-53.2	559.9	549.2	10.69	52.397		
3,200.0	3,143.0	3,145.1	3,144.6	11.2	5.5	179.58	-38.2	-53.0	582.1	571.1	11.03	52.772		
3,300.0	3,240.5	3,242.6	3,242.1	11.6	5.7	179.49	-39.3	-52.7	604.3	592.9	11.38	53.125		
3,400.0	3,337.9	3,340.1	3,339.6	12.0	5.9	179.41	-40.4	-52.4	626.5	614.8	11.72	53.456		
3,500.0	3,435.3	3,437.6	3,437.1	12.5	6.0	179.33	-41.5	-52.2	648.8	636.7	12.07	53.769		
3,600.0	3,532.8	3,535.1	3,534.6	12.9	6.2	179.25	-42.6	-51.9	671.0	658.6	12.41	54.064		
3,700.0	3,630.2	3,632.6	3,632.1	13.3	6.4	179.18	-43.7	-51.7	693.2	680.4	12.76	54.344		
3,800.0	3,727.7	3,730.1	3,729.6	13.8	6.5	179.12	-44.8	-51.4	715.4	702.3	13.10	54.609		
3,900.0	3,825.1	3,827.5	3,827.1	14.2	6.7	179.06	-45.9	-51.1	737.6	724.2	13.45	54.860		
4,000.0	3,922.5	3,925.0	3,924.6	14.6	6.9	179.00	-47.0	-50.9	759.9	746.1	13.79	55.099		
4,100.0	4,020.0	4,022.5	4,022.0	15.1	7.1	178.95	-48.1	-50.6	782.1	768.0	14.14	55.326		
4,200.0	4,117.4	4,120.0	4,119.5	15.5	7.2	178.90	-49.2	-50.4	804.3	789.8	14.48	55.542		
4,300.0	4,214.9	4,217.5	4,217.0	16.0	7.4	178.85	-50.3	-50.1	826.6	811.7	14.83	55.748		
4,400.0	4,312.3	4,315.0	4,314.5	16.4	7.6	178.80	-51.3	-49.9	848.8	833.6	15.17	55.945		
4,500.0	4,409.7	4,412.5	4,412.0	16.8	7.7	178.76	-52.4	-49.6	871.0	855.5	15.52	56.133		
4,600.0	4,507.2	4,510.0	4,509.5	17.3	7.9	178.72	-53.5	-49.3	893.2	877.4	15.86	56.313		
4,700.0	4,604.6	4,607.5	4,607.0	17.7	8.1	178.68	-54.6	-49.1	915.5	899.3	16.21	56.486		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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	
4,800.0	4,702.0	4,705.0	4,704.5	18.1	8.2	178.64	-55.7	-48.8	937.7	921.1	16.55	56.651	
4,900.0	4,799.5	4,802.5	4,802.0	18.6	8.4	178.61	-56.8	-48.6	959.9	943.0	16.90	56.809	
5,000.0	4,896.9	4,900.0	4,899.5	19.0	8.6	178.57	-57.9	-48.3	982.2	964.9	17.24	56.961	
5,100.0	4,994.4	4,997.5	4,996.9	19.4	8.8	178.54	-59.0	-48.1	1,004.4	986.8	17.59	57.108	
5,200.0	5,091.8	5,095.0	5,094.4	19.9	8.9	178.51	-60.1	-47.8	1,026.6	1,008.7	17.93	57.248	
5,300.0	5,189.2	5,192.5	5,191.9	20.3	9.1	178.48	-61.2	-47.5	1,048.9	1,030.6	18.28	57.383	
5,400.0	5,286.7	5,290.0	5,289.4	20.8	9.3	178.45	-62.3	-47.3	1,071.1	1,052.5	18.62	57.514	
5,500.0	5,384.1	5,387.5	5,386.9	21.2	9.4	178.42	-63.4	-47.0	1,093.3	1,074.3	18.97	57.639	
5,600.0	5,481.6	5,485.0	5,484.4	21.6	9.6	178.40	-64.5	-46.8	1,115.5	1,096.2	19.31	57.760	
5,700.0	5,579.0	5,582.5	5,581.9	22.1	9.8	178.37	-65.6	-46.5	1,137.8	1,118.1	19.66	57.877	
5,800.0	5,676.4	5,680.0	5,679.4	22.5	10.0	178.35	-66.7	-46.2	1,160.0	1,140.0	20.00	57.990	
5,900.0	5,773.9	5,777.5	5,776.9	22.9	10.1	178.33	-67.8	-46.0	1,182.2	1,161.9	20.35	58.099	
6,000.0	5,871.3	5,875.0	5,874.4	23.4	10.3	178.30	-68.9	-45.7	1,204.5	1,183.8	20.69	58.204	
6,100.0	5,968.7	5,972.5	5,971.8	23.8	10.5	178.28	-70.0	-45.5	1,226.7	1,205.7	21.04	58.306	
6,200.0	6,066.2	6,070.0	6,069.3	24.3	10.6	178.26	-71.1	-45.2	1,248.9	1,227.6	21.38	58.405	
6,300.0	6,163.6	6,167.5	6,166.8	24.7	10.8	178.24	-72.2	-45.0	1,271.2	1,249.4	21.73	58.500	
6,400.0	6,261.1	6,265.0	6,264.3	25.1	11.0	178.22	-73.3	-44.7	1,293.4	1,271.3	22.07	58.593	
6,500.0	6,358.5	6,362.4	6,361.8	25.6	11.2	178.20	-74.4	-44.4	1,315.6	1,293.2	22.42	58.682	
6,600.0	6,455.9	6,459.9	6,459.3	26.0	11.3	178.18	-75.5	-44.2	1,337.9	1,315.1	22.76	58.769	
6,700.0	6,553.4	6,557.4	6,556.8	26.5	11.5	178.17	-76.6	-43.9	1,360.1	1,337.0	23.11	58.853	
6,800.0	6,650.8	6,654.9	6,654.3	26.9	11.7	178.15	-77.7	-43.7	1,382.3	1,358.9	23.46	58.935	
6,900.0	6,748.3	6,752.4	6,751.8	27.3	11.8	178.13	-78.8	-43.4	1,404.6	1,380.8	23.80	59.015	
7,000.0	6,845.7	6,849.9	6,849.2	27.8	12.0	178.12	-79.9	-43.2	1,426.8	1,402.7	24.15	59.092	
7,100.0	6,943.1	6,947.2	6,946.5	28.2	12.2	178.12	-80.4	-42.9	1,449.1	1,424.6	24.49	59.177	
7,200.0	7,040.6	7,042.0	7,040.6	28.6	12.3	178.59	-69.4	-42.9	1,471.4	1,446.6	24.78	59.389	
7,300.0	7,138.0	7,130.7	7,125.8	29.1	12.4	179.57	-45.2	-43.1	1,494.2	1,469.2	25.03	59.687	
7,341.8	7,178.7	7,165.2	7,157.8	29.3	12.5	-179.92	-32.3	-43.2	1,504.0	1,478.9	25.14	59.817	
7,350.0	7,186.7	7,171.8	7,163.8	29.3	12.5	-176.06	-29.6	-43.3	1,506.0	1,480.8	25.16	59.848	
7,400.0	7,235.4	7,211.4	7,199.2	29.5	12.6	-153.84	-12.0	-43.5	1,518.1	1,492.8	25.33	59.932	
7,450.0	7,283.6	7,250.0	7,232.6	29.7	12.6	-136.31	7.5	-43.7	1,530.3	1,504.7	25.58	59.817	
7,500.0	7,331.0	7,288.3	7,264.3	29.9	12.7	-123.67	29.0	-44.0	1,542.5	1,516.6	25.93	59.489	
7,550.0	7,377.4	7,325.9	7,293.9	30.1	12.8	-114.56	52.1	-44.4	1,554.6	1,528.2	26.35	58.989	
7,600.0	7,422.2	7,363.0	7,321.6	30.3	12.9	-107.76	76.8	-44.7	1,566.4	1,539.6	26.84	58.364	
7,650.0	7,465.2	7,400.0	7,347.6	30.5	13.1	-102.49	103.1	-45.1	1,577.9	1,550.5	27.36	57.664	
7,700.0	7,506.0	7,436.0	7,371.3	30.7	13.2	-98.29	130.3	-45.5	1,588.9	1,561.0	27.91	56.925	
7,750.0	7,544.4	7,472.1	7,393.1	30.9	13.4	-94.85	159.0	-46.0	1,599.4	1,570.9	28.46	56.195	
7,800.0	7,580.0	7,507.9	7,413.0	31.1	13.6	-92.00	188.7	-46.5	1,609.2	1,580.2	28.99	55.505	
7,850.0	7,612.6	7,550.0	7,434.0	31.3	13.8	-89.58	225.2	-47.0	1,618.2	1,588.7	29.54	54.779	
7,900.0	7,641.9	7,579.0	7,446.9	31.5	14.0	-87.63	251.2	-47.5	1,626.4	1,596.4	29.98	54.255	
7,950.0	7,667.7	7,614.3	7,460.7	31.7	14.3	-85.98	283.6	-48.0	1,633.7	1,603.3	30.42	53.702	
8,000.0	7,689.8	7,650.0	7,472.7	32.0	14.6	-84.62	317.3	-48.6	1,640.1	1,609.3	30.84	53.181	
8,050.0	7,708.0	7,684.7	7,482.2	32.2	14.9	-83.55	350.6	-49.1	1,645.5	1,614.2	31.24	52.673	
8,100.0	7,722.3	7,719.8	7,489.9	32.4	15.2	-82.72	384.8	-49.7	1,649.8	1,618.1	31.63	52.164	
8,150.0	7,732.4	7,750.0	7,494.7	32.7	15.5	-82.14	414.7	-50.2	1,653.0	1,621.0	31.96	51.721	
8,200.0	7,738.3	7,789.9	7,498.7	33.0	15.9	-81.79	454.3	-50.9	1,655.1	1,622.7	32.41	51.073	
8,244.9	7,740.0	7,821.3	7,500.0	33.2	16.3	-81.67	485.7	-51.4	1,656.0	1,623.2	32.78	50.524	
8,300.0	7,740.0	7,873.7	7,500.0	33.5	16.9	-81.67	538.1	-52.3	1,656.7	1,622.7	33.99	48.743	
8,400.0	7,740.0	7,973.7	7,500.0	34.1	18.1	-81.68	638.1	-54.1	1,657.9	1,621.5	36.38	45.571	
8,500.0	7,740.0	8,073.7	7,500.0	34.8	19.4	-81.68	738.1	-55.8	1,659.1	1,620.1	38.93	42.614	
8,600.0	7,740.0	8,173.7	7,500.0	35.6	20.7	-81.69	838.1	-57.6	1,660.3	1,618.7	41.62	39.893	
8,700.0	7,740.0	8,273.7	7,500.0	36.5	22.1	-81.69	938.0	-59.3	1,661.5	1,617.1	44.41	37.409	
8,800.0	7,740.0	8,373.7	7,500.0	37.4	23.6	-81.70	1,038.0	-61.1	1,662.7	1,615.4	47.30	35.153	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2B-7H-E168 - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)			
8,900.0	7,740.0	8,473.7	7,500.0	38.3	25.1	-81.71	1,138.0	-62.8	1,663.9	1,613.7	50.26	33.107	
9,000.0	7,740.0	8,573.7	7,500.0	39.4	26.6	-81.71	1,238.0	-64.6	1,665.1	1,611.8	53.28	31.252	
9,100.0	7,740.0	8,673.7	7,500.0	40.4	28.2	-81.72	1,337.9	-66.3	1,666.3	1,610.0	56.35	29.569	
9,200.0	7,740.0	8,773.7	7,500.0	41.6	29.7	-81.72	1,437.9	-68.0	1,667.5	1,608.1	59.47	28.039	
9,300.0	7,740.0	8,873.7	7,500.0	42.7	31.3	-81.73	1,537.9	-69.8	1,668.8	1,606.1	62.63	26.645	
9,400.0	7,740.0	8,973.6	7,500.0	43.9	32.9	-81.74	1,637.9	-71.5	1,670.0	1,604.1	65.82	25.373	
9,500.0	7,740.0	9,073.6	7,500.0	45.2	34.6	-81.74	1,737.8	-73.3	1,671.2	1,602.1	69.03	24.209	
9,600.0	7,740.0	9,163.3	7,500.0	46.4	36.0	-81.75	1,827.5	-75.0	1,672.5	1,600.4	72.10	23.196	
9,700.0	7,740.0	9,240.9	7,500.0	47.7	37.3	-81.76	1,905.1	-77.3	1,675.0	1,600.0	75.00	22.335	
9,800.0	7,740.0	9,318.4	7,500.0	49.1	38.6	-81.77	1,982.5	-80.7	1,678.8	1,600.9	77.90	21.550	
9,900.0	7,740.0	9,400.0	7,500.0	50.4	40.0	-81.79	2,063.9	-85.4	1,684.0	1,603.1	80.89	20.818	
10,000.0	7,740.0	9,486.2	7,500.0	51.8	41.4	-81.82	2,150.0	-91.4	1,690.3	1,606.3	83.97	20.129	
10,100.0	7,740.0	9,586.0	7,500.0	53.2	43.1	-81.85	2,249.5	-98.4	1,696.7	1,609.4	87.29	19.437	
10,200.0	7,740.0	9,685.8	7,500.0	54.6	44.7	-81.88	2,349.1	-105.3	1,703.1	1,612.4	90.62	18.793	
10,300.0	7,740.0	9,785.6	7,500.0	56.1	46.4	-81.91	2,448.6	-112.3	1,709.5	1,615.5	93.96	18.193	
10,400.0	7,740.0	9,885.4	7,500.0	57.6	48.1	-81.94	2,548.2	-119.2	1,715.8	1,618.5	97.31	17.633	
10,500.0	7,740.0	9,985.2	7,500.0	59.0	49.8	-81.97	2,647.7	-126.2	1,722.2	1,621.6	100.67	17.108	
10,600.0	7,740.0	10,085.0	7,500.0	60.5	51.5	-82.00	2,747.3	-133.2	1,728.6	1,624.6	104.04	16.615	
10,700.0	7,740.0	10,184.8	7,500.0	62.0	53.2	-82.03	2,846.8	-140.1	1,735.0	1,627.6	107.41	16.153	
10,800.0	7,740.0	10,284.6	7,500.0	63.5	54.9	-82.06	2,946.4	-147.1	1,741.4	1,630.6	110.80	15.717	
10,900.0	7,740.0	10,384.4	7,500.0	65.1	56.6	-82.09	3,045.9	-154.0	1,747.8	1,633.6	114.18	15.307	
11,000.0	7,740.0	10,484.2	7,500.0	66.6	58.3	-82.12	3,145.5	-161.0	1,754.2	1,636.6	117.58	14.919	
11,100.0	7,740.0	10,584.0	7,500.0	68.2	60.0	-82.15	3,245.0	-168.0	1,760.6	1,639.6	120.98	14.553	
11,200.0	7,740.0	10,708.4	7,500.0	69.7	62.2	-82.18	3,369.2	-176.1	1,766.6	1,641.8	124.80	14.155	
11,300.0	7,740.0	10,852.3	7,500.0	71.3	64.6	-82.21	3,513.0	-182.3	1,770.3	1,641.4	128.96	13.727	
11,400.0	7,740.0	10,996.5	7,500.0	72.9	67.1	-82.21	3,657.1	-184.9	1,771.6	1,638.5	133.13	13.308	
11,500.0	7,740.0	11,104.6	7,500.0	74.5	69.0	-82.21	3,765.2	-185.0	1,771.2	1,634.5	136.68	12.959	
11,600.0	7,740.0	11,204.6	7,500.0	76.1	70.7	-82.21	3,865.2	-185.1	1,770.8	1,630.7	140.09	12.640	
11,700.0	7,740.0	11,304.6	7,500.0	77.7	72.4	-82.21	3,965.2	-185.2	1,770.3	1,626.8	143.51	12.336	
11,800.0	7,740.0	11,404.6	7,500.0	79.3	74.2	-82.21	4,065.2	-185.3	1,769.9	1,623.0	146.93	12.046	
11,900.0	7,740.0	11,504.6	7,500.0	80.9	75.9	-82.20	4,165.2	-185.4	1,769.5	1,619.1	150.35	11.769	
12,000.0	7,740.0	11,604.6	7,500.0	82.5	77.6	-82.20	4,265.2	-185.4	1,769.0	1,615.2	153.78	11.504	
12,100.0	7,740.0	11,704.6	7,500.0	84.2	79.3	-82.20	4,365.2	-185.5	1,768.6	1,611.4	157.20	11.250	
12,200.0	7,740.0	11,804.6	7,500.0	85.8	81.1	-82.20	4,465.2	-185.6	1,768.1	1,607.5	160.63	11.007	
12,300.0	7,740.0	11,904.6	7,500.0	87.4	82.8	-82.20	4,565.2	-185.7	1,767.7	1,603.6	164.07	10.774	
12,400.0	7,740.0	12,004.6	7,500.0	89.1	84.5	-82.19	4,665.2	-185.8	1,767.3	1,599.8	167.50	10.551	
12,500.0	7,740.0	12,104.6	7,500.0	90.7	86.3	-82.19	4,765.2	-185.9	1,766.8	1,595.9	170.93	10.336	
12,600.0	7,740.0	12,204.6	7,500.0	92.4	88.0	-82.19	4,865.2	-185.9	1,766.4	1,592.0	174.37	10.130	
12,700.0	7,740.0	12,304.6	7,500.0	94.0	89.7	-82.19	4,965.2	-186.0	1,766.0	1,588.2	177.81	9.932	
12,800.0	7,740.0	12,404.6	7,500.0	95.7	91.5	-82.19	5,065.2	-186.1	1,765.5	1,584.3	181.25	9.741	
12,900.0	7,740.0	12,504.6	7,500.0	97.3	93.2	-82.19	5,165.2	-186.2	1,765.1	1,580.4	184.69	9.557	
13,000.0	7,740.0	12,604.6	7,500.0	99.0	94.9	-82.18	5,265.2	-186.3	1,764.6	1,576.5	188.13	9.380	
13,100.0	7,740.0	12,704.6	7,500.0	100.7	96.7	-82.18	5,365.2	-186.3	1,764.2	1,572.6	191.57	9.209	
13,200.0	7,740.0	12,804.6	7,500.0	102.3	98.4	-82.18	5,465.2	-186.4	1,763.8	1,568.8	195.01	9.044	
13,300.0	7,740.0	12,904.6	7,500.0	104.0	100.2	-82.18	5,565.2	-186.5	1,763.3	1,564.9	198.46	8.885	
13,400.0	7,740.0	13,004.6	7,500.0	105.7	101.9	-82.18	5,665.2	-186.6	1,762.9	1,561.0	201.91	8.731	
13,500.0	7,740.0	13,104.6	7,500.0	107.3	103.6	-82.17	5,765.2	-186.7	1,762.5	1,557.1	205.35	8.583	
13,600.0	7,740.0	13,204.6	7,500.0	109.0	105.4	-82.17	5,865.2	-186.8	1,762.0	1,553.2	208.80	8.439	
13,700.0	7,740.0	13,304.6	7,500.0	110.7	107.1	-82.17	5,965.2	-186.8	1,761.6	1,549.3	212.25	8.300	
13,800.0	7,740.0	13,404.6	7,500.0	112.4	108.9	-82.17	6,065.2	-186.9	1,761.1	1,545.4	215.70	8.165	
13,900.0	7,740.0	13,504.6	7,500.0	114.1	110.6	-82.17	6,165.2	-187.0	1,760.7	1,541.6	219.15	8.034	
14,000.0	7,740.0	13,604.6	7,500.0	115.8	112.3	-82.16	6,265.2	-187.1	1,760.3	1,537.7	222.60	7.908	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 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		
14,100.0	7,740.0	13,704.6	7,500.0	117.5	114.1	-82.16	6,365.2	-187.2	1,759.8	1,533.8	226.05	7.785		
14,200.0	7,740.0	13,804.6	7,500.0	119.2	115.8	-82.16	6,465.2	-187.2	1,759.4	1,529.9	229.50	7.666		
14,300.0	7,740.0	13,904.6	7,500.0	120.8	117.6	-82.16	6,565.2	-187.3	1,759.0	1,526.0	232.96	7.551		
14,400.0	7,740.0	14,004.6	7,500.0	122.5	119.3	-82.16	6,665.2	-187.4	1,758.5	1,522.1	236.41	7.438		
14,500.0	7,740.0	14,104.6	7,500.0	124.2	121.1	-82.15	6,765.2	-187.5	1,758.1	1,518.2	239.86	7.329		
14,600.0	7,740.0	14,204.6	7,500.0	125.9	122.8	-82.15	6,865.2	-187.6	1,757.6	1,514.3	243.32	7.224		
14,700.0	7,740.0	14,304.6	7,500.0	127.6	124.5	-82.15	6,965.2	-187.6	1,757.2	1,510.4	246.77	7.121		
14,800.0	7,740.0	14,404.6	7,500.0	129.3	126.3	-82.15	7,065.2	-187.7	1,756.8	1,506.5	250.23	7.021		
14,825.5	7,740.0	14,422.4	7,500.0	129.8	126.6	-82.15	7,083.0	-187.7	1,756.7	1,505.7	250.98	6.999		
14,844.9	7,740.0	14,422.4	7,500.0	130.1	126.6	-82.15	7,083.0	-187.7	1,756.8	1,505.5	251.31	6.990 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.47	0.4	-39.7	39.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.47	0.4	-39.7	39.7	39.4	0.30	130.873		
200.0	200.0	200.0	200.0	0.3	0.3	-89.47	0.4	-39.7	39.7	39.1	0.65	60.888		
250.0	250.0	250.0	250.0	0.4	0.4	-89.47	0.4	-39.7	39.7	38.9	0.83	48.042 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	170.58	0.4	-39.7	40.0	39.0	1.00	39.888		
400.0	400.0	400.0	400.0	0.7	0.7	170.97	0.4	-39.7	41.7	40.3	1.35	30.861		
500.0	499.9	499.9	499.9	0.9	0.8	171.66	0.4	-39.7	45.1	43.4	1.70	26.561		
600.0	599.8	599.8	599.8	1.1	1.0	172.52	0.4	-39.7	50.3	48.3	2.05	24.578		
700.0	699.5	700.5	700.5	1.3	1.2	173.38	0.3	-38.9	56.4	54.0	2.40	23.523		
800.0	799.2	801.4	801.3	1.5	1.4	174.16	0.0	-36.2	62.4	59.7	2.75	22.735		
900.0	898.6	902.3	902.2	1.7	1.6	174.89	-0.6	-31.8	68.4	65.3	3.09	22.124		
1,000.0	997.9	1,002.1	1,001.8	2.0	1.7	175.59	-1.2	-26.7	75.4	72.0	3.44	21.929		
1,100.0	1,096.9	1,101.7	1,101.3	2.3	1.9	176.24	-1.8	-21.5	84.1	80.4	3.78	22.239		
1,200.0	1,195.7	1,201.1	1,200.6	2.6	2.1	176.83	-2.4	-16.4	94.6	90.5	4.13	22.927		
1,300.0	1,294.1	1,300.4	1,299.7	2.9	2.3	177.35	-3.0	-11.3	106.8	102.3	4.47	23.906		
1,400.0	1,392.3	1,399.4	1,398.6	3.3	2.5	177.79	-3.6	-6.2	120.7	115.9	4.81	25.117		
1,500.0	1,490.1	1,498.1	1,497.2	3.7	2.7	178.16	-4.2	-1.1	136.4	131.3	5.15	26.513		
1,600.0	1,587.5	1,596.6	1,595.5	4.1	2.9	178.48	-4.8	4.0	153.8	148.3	5.48	28.062		
1,700.0	1,684.6	1,694.8	1,693.5	4.5	3.1	178.74	-5.4	9.0	172.9	167.1	5.82	29.738		
1,750.0	1,732.9	1,743.7	1,742.4	4.8	3.2	178.85	-5.7	11.6	183.1	177.2	5.98	30.618		
1,800.0	1,781.2	1,792.6	1,791.3	5.0	3.3	-179.14	-6.0	14.1	193.5	187.4	6.15	31.449		
1,900.0	1,877.8	1,890.4	1,889.0	5.5	3.5	-175.47	-6.6	19.1	214.3	207.8	6.50	32.967		
1,981.2	1,956.2	1,969.8	1,968.2	5.9	3.6	-172.79	-7.1	23.2	231.0	224.3	6.78	34.078		
2,000.0	1,974.4	1,988.2	1,986.6	6.0	3.6	-172.94	-7.2	24.2	234.9	228.1	6.85	34.305		
2,100.0	2,071.3	2,086.3	2,084.5	6.4	3.8	-173.62	-7.8	29.2	254.4	247.2	7.21	35.303		
2,181.5	2,150.7	2,166.5	2,164.6	6.7	4.0	-174.07	-8.2	33.4	269.0	261.5	7.50	35.881		
2,200.0	2,168.6	2,184.7	2,182.8	6.8	4.0	-174.16	-8.4	34.3	272.2	264.7	7.56	36.000		
2,300.0	2,266.1	2,283.1	2,281.1	7.3	4.2	-174.62	-9.0	39.4	289.5	281.6	7.91	36.612		
2,400.0	2,363.5	2,381.6	2,379.5	7.7	4.4	-175.02	-9.6	44.5	306.8	298.6	8.25	37.174		
2,500.0	2,461.0	2,480.1	2,477.8	8.1	4.6	-175.37	-10.2	49.5	324.2	315.6	8.60	37.692		
2,600.0	2,558.4	2,578.5	2,576.1	8.6	4.8	-175.69	-10.7	54.6	341.5	332.5	8.95	38.171		
2,700.0	2,655.8	2,677.0	2,674.5	9.0	5.0	-175.99	-11.3	59.7	358.8	349.5	9.29	38.616		
2,800.0	2,753.3	2,775.5	2,772.8	9.4	5.2	-176.25	-11.9	64.8	376.2	366.6	9.64	39.029		
2,900.0	2,850.7	2,873.9	2,871.1	9.9	5.4	-176.49	-12.5	69.9	393.5	383.6	9.98	39.414		
3,000.0	2,948.2	2,972.4	2,969.5	10.3	5.6	-176.71	-13.1	74.9	410.9	400.6	10.33	39.774		
3,100.0	3,045.6	3,070.9	3,067.8	10.7	5.8	-176.91	-13.7	80.0	428.3	417.6	10.68	40.111		
3,200.0	3,143.0	3,169.3	3,166.1	11.2	5.9	-177.10	-14.3	85.1	445.7	434.6	11.02	40.428		
3,300.0	3,240.5	3,267.8	3,264.5	11.6	6.1	-177.27	-14.9	90.2	463.0	451.7	11.37	40.725		
3,400.0	3,337.9	3,366.3	3,362.8	12.0	6.3	-177.43	-15.5	95.2	480.4	468.7	11.72	41.005		
3,500.0	3,435.3	3,464.7	3,461.2	12.5	6.5	-177.58	-16.1	100.3	497.8	485.7	12.06	41.269		
3,600.0	3,532.8	3,563.2	3,559.5	12.9	6.7	-177.72	-16.7	105.4	515.2	502.8	12.41	41.519		
3,700.0	3,630.2	3,661.7	3,657.8	13.3	6.9	-177.85	-17.3	110.5	532.6	519.8	12.76	41.755		
3,800.0	3,727.7	3,760.2	3,756.2	13.8	7.1	-177.97	-17.9	115.6	550.0	536.9	13.10	41.979		
3,900.0	3,825.1	3,858.6	3,854.5	14.2	7.3	-178.08	-18.5	120.6	567.4	553.9	13.45	42.191		
4,000.0	3,922.5	3,957.1	3,952.8	14.6	7.5	-178.19	-19.1	125.7	584.8	571.0	13.79	42.393		
4,100.0	4,020.0	4,055.6	4,051.2	15.1	7.7	-178.29	-19.7	130.8	602.2	588.0	14.14	42.585		
4,200.0	4,117.4	4,154.0	4,149.5	15.5	7.9	-178.39	-20.3	135.9	619.6	605.1	14.49	42.769		
4,300.0	4,214.9	4,252.5	4,247.8	16.0	8.1	-178.48	-20.9	140.9	637.0	622.1	14.83	42.943		
4,400.0	4,312.3	4,351.0	4,346.2	16.4	8.3	-178.56	-21.5	146.0	654.4	639.2	15.18	43.110		
4,500.0	4,409.7	4,449.4	4,444.5	16.8	8.5	-178.64	-22.1	151.1	671.8	656.3	15.53	43.269		
4,600.0	4,507.2	4,547.9	4,542.9	17.3	8.7	-178.72	-22.7	156.2	689.2	673.3	15.87	43.422		
4,700.0	4,604.6	4,646.4	4,641.2	17.7	8.8	-178.79	-23.3	161.3	706.6	690.4	16.22	43.568		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-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 +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
4,800.0	4,702.0	4,744.8	4,739.5	18.1	9.0	-178.86	-23.9	166.3	724.0	707.5	16.57	43.708		
4,900.0	4,799.5	4,843.3	4,837.9	18.6	9.2	-178.93	-24.5	171.4	741.4	724.5	16.91	43.842		
5,000.0	4,896.9	4,941.8	4,936.2	19.0	9.4	-178.99	-25.1	176.5	758.8	741.6	17.26	43.971		
5,100.0	4,994.4	5,040.3	5,034.5	19.4	9.6	-179.05	-25.7	181.6	776.3	758.7	17.60	44.095		
5,200.0	5,091.8	5,138.7	5,132.9	19.9	9.8	-179.11	-26.3	186.6	793.7	775.7	17.95	44.214		
5,300.0	5,189.2	5,237.2	5,231.2	20.3	10.0	-179.17	-26.9	191.7	811.1	792.8	18.30	44.328		
5,400.0	5,286.7	5,335.7	5,329.5	20.8	10.2	-179.22	-27.5	196.8	828.5	809.9	18.64	44.439		
5,500.0	5,384.1	5,434.1	5,427.9	21.2	10.4	-179.27	-28.1	201.9	845.9	826.9	18.99	44.545		
5,600.0	5,481.6	5,532.6	5,526.2	21.6	10.6	-179.32	-28.7	207.0	863.3	844.0	19.34	44.648		
5,700.0	5,579.0	5,631.1	5,624.5	22.1	10.8	-179.36	-29.3	212.0	880.7	861.1	19.68	44.747		
5,800.0	5,676.4	5,729.5	5,722.9	22.5	11.0	-179.41	-29.9	217.1	898.2	878.1	20.03	44.842		
5,900.0	5,773.9	5,828.0	5,821.2	22.9	11.2	-179.45	-30.5	222.2	915.6	895.2	20.38	44.935		
6,000.0	5,871.3	5,926.5	5,919.6	23.4	11.4	-179.49	-31.1	227.3	933.0	912.3	20.72	45.024		
6,100.0	5,968.7	6,024.9	6,017.9	23.8	11.6	-179.53	-31.7	232.4	950.4	929.3	21.07	45.110		
6,200.0	6,066.2	6,123.4	6,116.2	24.3	11.7	-179.57	-32.3	237.4	967.8	946.4	21.42	45.194		
6,300.0	6,163.6	6,221.9	6,214.6	24.7	11.9	-179.61	-32.9	242.5	985.3	963.5	21.76	45.275		
6,400.0	6,261.1	6,320.4	6,312.9	25.1	12.1	-179.65	-33.5	247.6	1,002.7	980.6	22.11	45.353		
6,500.0	6,358.5	6,418.8	6,411.2	25.6	12.3	-179.68	-34.1	252.7	1,020.1	997.6	22.45	45.429		
6,600.0	6,455.9	6,517.3	6,509.6	26.0	12.5	-179.72	-34.7	257.7	1,037.5	1,014.7	22.80	45.503		
6,700.0	6,553.4	6,615.8	6,607.9	26.5	12.7	-179.75	-35.3	262.8	1,054.9	1,031.8	23.15	45.575		
6,800.0	6,650.8	6,714.2	6,706.2	26.9	12.9	-179.78	-35.9	267.9	1,072.4	1,048.9	23.49	45.644		
6,900.0	6,748.3	6,812.7	6,804.6	27.3	13.1	-179.81	-36.5	273.0	1,089.8	1,065.9	23.84	45.712		
7,000.0	6,845.7	6,911.2	6,902.9	27.8	13.3	-179.84	-37.1	278.1	1,107.2	1,083.0	24.19	45.777		
7,100.0	6,943.1	7,009.6	7,001.3	28.2	13.5	-179.87	-37.7	283.1	1,124.6	1,100.1	24.53	45.841		
7,200.0	7,040.6	7,108.1	7,099.6	28.6	13.7	-179.90	-38.3	288.2	1,142.0	1,117.2	24.88	45.903		
7,300.0	7,138.0	7,204.1	7,195.5	29.1	13.9	-179.88	-38.0	293.1	1,159.5	1,134.3	25.22	45.976		
7,341.8	7,178.7	7,242.1	7,233.3	29.3	13.9	-179.72	-34.9	295.0	1,166.9	1,141.6	25.35	46.029		
7,350.0	7,186.7	7,250.0	7,241.1	29.3	14.0	-175.97	-33.9	295.4	1,168.4	1,143.0	25.38	46.043		
7,400.0	7,235.4	7,294.3	7,284.8	29.5	14.0	-154.44	-26.5	297.5	1,177.4	1,151.8	25.54	46.100		
7,450.0	7,283.6	7,338.9	7,327.9	29.7	14.1	-137.59	-15.7	299.6	1,186.3	1,160.6	25.75	46.074		
7,500.0	7,331.0	7,383.1	7,369.8	29.9	14.2	-125.63	-1.6	301.5	1,195.2	1,169.2	26.00	45.964		
7,550.0	7,377.4	7,427.1	7,410.3	30.1	14.3	-117.18	15.5	303.3	1,203.9	1,177.6	26.31	45.750		
7,600.0	7,422.2	7,470.9	7,449.1	30.3	14.4	-111.01	35.6	304.9	1,212.3	1,185.7	26.67	45.450		
7,650.0	7,465.2	7,514.6	7,486.3	30.5	14.5	-106.35	58.5	306.4	1,220.5	1,193.4	27.08	45.073		
7,700.0	7,506.0	7,558.2	7,521.5	30.7	14.6	-102.72	84.2	307.8	1,228.3	1,200.7	27.52	44.632		
7,750.0	7,544.4	7,600.0	7,553.3	30.9	14.8	-99.83	111.2	309.0	1,235.6	1,207.6	27.98	44.154		
7,800.0	7,580.0	7,645.2	7,585.4	31.1	14.9	-97.48	143.0	310.1	1,242.4	1,213.9	28.49	43.607		
7,850.0	7,612.6	7,688.7	7,613.9	31.3	15.1	-95.57	175.8	311.0	1,248.7	1,219.7	29.01	43.044		
7,900.0	7,641.9	7,732.2	7,639.8	31.5	15.4	-94.02	210.8	311.7	1,254.5	1,224.9	29.55	42.459		
7,950.0	7,667.7	7,775.8	7,663.0	31.7	15.6	-92.76	247.7	312.3	1,259.6	1,229.5	30.09	41.857		
8,000.0	7,689.8	7,819.5	7,683.4	32.0	15.9	-91.76	286.3	312.6	1,264.0	1,233.3	30.65	41.240		
8,050.0	7,708.0	7,863.3	7,700.9	32.2	16.2	-90.99	326.5	312.8	1,267.7	1,236.5	31.22	40.606		
8,100.0	7,722.3	7,907.3	7,715.3	32.4	16.6	-90.43	368.1	312.8	1,270.7	1,238.9	31.81	39.953		
8,150.0	7,732.4	7,950.0	7,726.1	32.7	16.9	-90.08	409.3	312.7	1,273.0	1,240.6	32.39	39.296		
8,200.0	7,738.3	7,995.8	7,734.3	33.0	17.4	-89.92	454.4	312.3	1,274.5	1,241.4	33.04	38.575		
8,244.9	7,740.0	8,035.7	7,738.6	33.2	17.8	-89.94	494.1	311.8	1,275.2	1,241.5	33.63	37.922		
8,300.0	7,740.0	8,086.2	7,740.0	33.5	18.3	-90.00	544.5	311.0	1,275.7	1,240.9	34.81	36.650		
8,400.0	7,740.0	8,186.1	7,740.0	34.1	19.4	-90.00	644.4	309.3	1,277.0	1,239.8	37.21	34.322		
8,500.0	7,740.0	8,286.1	7,740.0	34.8	20.6	-90.00	744.4	307.6	1,278.2	1,238.4	39.76	32.146		
8,600.0	7,740.0	8,386.1	7,740.0	35.6	21.9	-90.00	844.4	305.8	1,279.4	1,237.0	42.45	30.136		
8,700.0	7,740.0	8,486.1	7,740.0	36.5	23.2	-90.00	944.4	304.1	1,280.6	1,235.4	45.26	28.295		
8,800.0	7,740.0	8,586.1	7,740.0	37.4	24.6	-90.00	1,044.3	302.3	1,281.9	1,233.7	48.16	26.618		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
8,900.0	7,740.0	8,686.1	7,740.0	38.3	26.1	-90.00	1,144.3	300.6	1,283.1	1,231.9	51.13	25.094		
9,000.0	7,740.0	8,786.1	7,740.0	39.4	27.6	-90.00	1,244.3	298.8	1,284.3	1,230.1	54.17	23.709		
9,100.0	7,740.0	8,886.1	7,740.0	40.4	29.1	-90.00	1,344.3	297.1	1,285.5	1,228.3	57.26	22.450		
9,200.0	7,740.0	8,986.1	7,740.0	41.6	30.6	-90.00	1,444.3	295.3	1,286.7	1,226.3	60.40	21.304		
9,300.0	7,740.0	9,086.1	7,740.0	42.7	32.2	-90.00	1,544.2	293.6	1,288.0	1,224.4	63.57	20.259		
9,400.0	7,740.0	9,186.1	7,740.0	43.9	33.7	-90.00	1,644.2	291.8	1,289.2	1,222.4	66.78	19.304		
9,500.0	7,740.0	9,286.1	7,740.0	45.2	35.3	-90.00	1,744.2	290.1	1,290.4	1,220.4	70.02	18.429		
9,600.0	7,740.0	9,386.1	7,740.0	46.4	36.9	-90.00	1,844.2	288.4	1,291.6	1,218.3	73.28	17.625		
9,700.0	7,740.0	9,486.1	7,740.0	47.7	38.5	-90.00	1,944.1	286.6	1,292.8	1,216.3	76.57	16.885		
9,800.0	7,740.0	9,586.0	7,740.0	49.1	40.2	-90.00	2,044.1	284.9	1,294.1	1,214.2	79.87	16.202		
9,900.0	7,740.0	9,686.0	7,740.0	50.4	41.8	-90.00	2,144.1	283.1	1,295.3	1,212.1	83.19	15.570		
10,000.0	7,740.0	9,786.0	7,740.0	51.8	43.5	-90.00	2,244.1	281.4	1,296.5	1,210.0	86.53	14.984		
10,100.0	7,740.0	9,886.0	7,740.0	53.2	45.1	-90.00	2,344.1	279.6	1,297.7	1,207.9	89.88	14.439		
10,200.0	7,740.0	9,986.0	7,740.0	54.6	46.8	-90.00	2,444.0	277.9	1,299.0	1,205.7	93.24	13.932		
10,300.0	7,740.0	10,086.0	7,740.0	56.1	48.5	-90.00	2,544.0	276.1	1,300.2	1,203.6	96.61	13.459		
10,400.0	7,740.0	10,186.0	7,740.0	57.6	50.1	-90.00	2,644.0	274.4	1,301.4	1,201.4	99.99	13.016		
10,500.0	7,740.0	10,286.0	7,740.0	59.0	51.8	-90.00	2,744.0	272.7	1,302.6	1,199.2	103.37	12.601		
10,600.0	7,740.0	10,386.0	7,740.0	60.5	53.5	-90.00	2,843.9	270.9	1,303.8	1,197.1	106.77	12.212		
10,700.0	7,740.0	10,486.0	7,740.0	62.0	55.2	-90.00	2,943.9	269.2	1,305.1	1,194.9	110.17	11.845		
10,800.0	7,740.0	10,586.0	7,740.0	63.5	56.9	-90.00	3,043.9	267.4	1,306.3	1,192.7	113.58	11.501		
10,900.0	7,740.0	10,686.0	7,740.0	65.1	58.6	-90.00	3,143.9	265.7	1,307.5	1,190.5	117.00	11.175		
11,000.0	7,740.0	10,786.0	7,740.0	66.6	60.3	-90.00	3,243.8	263.9	1,308.7	1,188.3	120.42	10.868		
11,100.0	7,740.0	10,885.9	7,740.0	68.2	62.0	-90.00	3,343.8	262.2	1,309.9	1,186.1	123.85	10.577		
11,200.0	7,740.0	10,985.9	7,740.0	69.7	63.7	-90.00	3,443.8	260.4	1,311.2	1,183.9	127.28	10.302		
11,300.0	7,740.0	11,085.9	7,740.0	71.3	65.4	-90.00	3,543.8	258.7	1,312.4	1,181.7	130.71	10.040		
11,400.0	7,740.0	11,185.9	7,740.0	72.9	67.1	-90.00	3,643.8	256.9	1,313.6	1,179.5	134.15	9.792		
11,500.0	7,740.0	11,285.9	7,740.0	74.5	68.8	-90.00	3,743.7	255.2	1,314.8	1,177.2	137.59	9.556		
11,600.0	7,740.0	11,385.9	7,740.0	76.1	70.6	-90.00	3,843.7	253.5	1,316.1	1,175.0	141.04	9.331		
11,700.0	7,740.0	11,485.9	7,740.0	77.7	72.3	-90.00	3,943.7	251.7	1,317.3	1,172.8	144.48	9.117		
11,800.0	7,740.0	11,585.9	7,740.0	79.3	74.0	-90.00	4,043.7	250.0	1,318.5	1,170.6	147.93	8.913		
11,900.0	7,740.0	11,685.9	7,740.0	80.9	75.7	-90.00	4,143.6	248.2	1,319.7	1,168.3	151.39	8.717		
12,000.0	7,740.0	11,785.9	7,740.0	82.5	77.4	-90.00	4,243.6	246.5	1,320.9	1,166.1	154.84	8.531		
12,100.0	7,740.0	11,885.9	7,740.0	84.2	79.2	-90.00	4,343.6	244.7	1,322.2	1,163.9	158.30	8.352		
12,200.0	7,740.0	11,985.9	7,740.0	85.8	80.9	-90.00	4,443.6	243.0	1,323.4	1,161.6	161.76	8.181		
12,300.0	7,740.0	12,085.9	7,740.0	87.4	82.6	-90.00	4,543.6	241.2	1,324.6	1,159.4	165.22	8.017		
12,400.0	7,740.0	12,185.9	7,740.0	89.1	84.3	-90.00	4,643.5	239.5	1,325.8	1,157.1	168.69	7.860		
12,500.0	7,740.0	12,285.8	7,740.0	90.7	86.1	-90.00	4,743.5	237.8	1,327.1	1,154.9	172.16	7.708		
12,600.0	7,740.0	12,385.8	7,740.0	92.4	87.8	-90.00	4,843.5	236.0	1,328.3	1,152.6	175.62	7.563		
12,700.0	7,740.0	12,485.8	7,740.0	94.0	89.5	-90.00	4,943.5	234.3	1,329.5	1,150.4	179.09	7.424		
12,800.0	7,740.0	12,585.8	7,740.0	95.7	91.3	-90.00	5,043.4	232.5	1,330.7	1,148.2	182.56	7.289		
12,900.0	7,740.0	12,685.8	7,740.0	97.3	93.0	-90.00	5,143.4	230.8	1,331.9	1,145.9	186.03	7.160		
13,000.0	7,740.0	12,785.8	7,740.0	99.0	94.7	-90.00	5,243.4	229.0	1,333.2	1,143.7	189.51	7.035		
13,100.0	7,740.0	12,885.8	7,740.0	100.7	96.5	-90.00	5,343.4	227.3	1,334.4	1,141.4	192.98	6.914		
13,200.0	7,740.0	12,985.8	7,740.0	102.3	98.2	-90.00	5,443.4	225.5	1,335.6	1,139.1	196.46	6.798		
13,300.0	7,740.0	13,085.8	7,740.0	104.0	99.9	-90.00	5,543.3	223.8	1,336.8	1,136.9	199.94	6.686		
13,400.0	7,740.0	13,185.8	7,740.0	105.7	101.7	-90.00	5,643.3	222.1	1,338.0	1,134.6	203.41	6.578		
13,500.0	7,740.0	13,285.8	7,740.0	107.3	103.4	-90.00	5,743.3	220.3	1,339.3	1,132.4	206.89	6.473		
13,600.0	7,740.0	13,385.8	7,740.0	109.0	105.1	-90.00	5,843.3	218.6	1,340.5	1,130.1	210.37	6.372		
13,700.0	7,740.0	13,485.8	7,740.0	110.7	106.9	-90.00	5,943.2	216.8	1,341.7	1,127.9	213.85	6.274		
13,800.0	7,740.0	13,585.7	7,740.0	112.4	108.6	-90.00	6,043.2	215.1	1,342.9	1,125.6	217.34	6.179		
13,900.0	7,740.0	13,685.7	7,740.0	114.1	110.3	-90.00	6,143.2	213.3	1,344.2	1,123.3	220.82	6.087		
14,000.0	7,740.0	13,785.7	7,740.0	115.8	112.1	-90.00	6,243.2	211.6	1,345.4	1,121.1	224.30	5.998		

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

Offset Design										S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2C-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 Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
14,100.0	7,740.0	13,885.7	7,740.0	117.5	113.8	-90.00	6,343.1	209.8	1,346.6	1,118.8	227.79	5.912				
14,200.0	7,740.0	13,985.7	7,740.0	119.2	115.6	-90.00	6,443.1	208.1	1,347.8	1,116.5	231.27	5.828				
14,300.0	7,740.0	14,083.9	7,740.0	120.8	117.3	-90.00	6,541.3	206.4	1,349.0	1,114.3	234.73	5.747				
14,400.0	7,740.0	14,164.8	7,740.0	122.5	118.7	-90.00	6,622.2	204.3	1,351.1	1,113.2	237.88	5.680				
14,500.0	7,740.0	14,245.7	7,740.0	124.2	120.1	-90.00	6,703.0	201.1	1,354.6	1,113.5	241.03	5.620				
14,600.0	7,740.0	14,326.5	7,740.0	125.9	121.5	-90.00	6,783.6	196.7	1,359.5	1,115.3	244.18	5.567				
14,700.0	7,740.0	14,423.4	7,740.0	127.6	123.2	-90.00	6,880.4	190.6	1,365.2	1,117.6	247.62	5.513				
14,800.0	7,740.0	14,523.3	7,740.0	129.3	124.9	-90.00	6,980.1	184.3	1,371.0	1,119.9	251.10	5.460				
14,844.9	7,740.0	14,568.1	7,740.0	130.1	125.7	-90.00	7,024.8	181.4	1,373.6	1,121.0	252.67	5.437 SF				

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.30	0.4	-29.9	29.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.30	0.4	-29.9	29.9	29.6	0.30	98.619		
200.0	200.0	200.0	200.0	0.3	0.3	-89.30	0.4	-29.9	29.9	29.3	0.65	45.882		
250.0	250.0	250.0	250.0	0.4	0.4	-89.30	0.4	-29.9	29.9	29.1	0.83	36.202	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	170.77	0.4	-29.9	30.2	29.2	1.00	30.111		
400.0	400.0	400.0	400.0	0.7	0.7	171.27	0.4	-29.9	31.9	30.5	1.35	23.610		
500.0	499.9	499.9	499.9	0.9	0.8	172.13	0.4	-29.9	35.3	33.6	1.70	20.800		
600.0	599.8	600.5	600.5	1.1	1.0	173.07	0.3	-29.1	39.7	37.6	2.05	19.361		
700.0	699.5	701.1	701.1	1.3	1.2	173.97	0.0	-26.4	44.0	41.6	2.40	18.339		
800.0	799.2	801.8	801.7	1.5	1.4	174.84	-0.5	-22.0	48.3	45.5	2.75	17.575		
900.0	898.6	902.6	902.3	1.7	1.6	175.69	-1.2	-15.9	52.6	49.5	3.09	16.983		
1,000.0	997.9	1,003.5	1,002.8	2.0	1.8	176.52	-2.1	-8.0	56.8	53.4	3.44	16.511		
1,100.0	1,096.9	1,103.6	1,102.5	2.3	2.0	177.32	-3.1	1.1	61.6	57.8	3.79	16.271		
1,200.0	1,195.7	1,203.4	1,201.9	2.6	2.2	178.06	-4.1	10.2	68.1	64.0	4.13	16.489		
1,300.0	1,294.1	1,303.0	1,301.1	2.9	2.4	178.70	-5.2	19.3	76.4	71.9	4.48	17.069		
1,400.0	1,392.3	1,402.5	1,400.2	3.3	2.7	179.23	-6.2	28.4	86.4	81.6	4.82	17.933		
1,500.0	1,490.1	1,501.8	1,499.1	3.7	2.9	179.66	-7.2	37.4	98.1	93.0	5.16	19.025		
1,600.0	1,587.5	1,600.9	1,597.8	4.1	3.1	180.00	-8.2	46.5	111.6	106.1	5.50	20.303		
1,700.0	1,684.6	1,699.8	1,696.2	4.5	3.3	-179.74	-9.2	55.5	126.8	121.0	5.83	21.736		
1,750.0	1,732.9	1,749.1	1,745.3	4.8	3.5	-179.63	-9.7	60.0	135.1	129.1	6.00	22.502		
1,800.0	1,781.2	1,798.4	1,794.4	5.0	3.6	-177.68	-10.2	64.5	143.5	137.3	6.18	23.233		
1,900.0	1,877.8	1,896.9	1,892.5	5.5	3.8	-174.23	-11.2	73.4	160.3	153.8	6.53	24.565		
1,981.2	1,956.2	1,976.9	1,972.2	5.9	4.0	-171.80	-12.0	80.7	173.8	167.0	6.81	25.537		
2,000.0	1,974.4	1,995.5	1,990.7	6.0	4.0	-172.00	-12.2	82.4	177.0	170.1	6.88	25.739		
2,100.0	2,071.3	2,094.2	2,089.0	6.4	4.3	-172.93	-13.2	91.4	192.5	185.2	7.23	26.609		
2,181.5	2,150.7	2,174.9	2,169.4	6.7	4.4	-173.53	-14.1	98.8	203.9	196.4	7.53	27.093		
2,200.0	2,168.6	2,193.2	2,187.6	6.8	4.5	-173.66	-14.2	100.5	206.4	198.8	7.59	27.188		
2,300.0	2,266.1	2,292.3	2,286.2	7.3	4.7	-174.27	-15.3	109.5	219.7	211.7	7.94	27.676		
2,400.0	2,363.5	2,391.4	2,384.9	7.7	4.9	-174.81	-16.3	118.5	233.0	224.8	8.29	28.126		
2,500.0	2,461.0	2,490.5	2,483.6	8.1	5.2	-175.29	-17.3	127.6	246.4	237.8	8.63	28.541		
2,600.0	2,558.4	2,589.6	2,582.2	8.6	5.4	-175.72	-18.3	136.6	259.8	250.8	8.98	28.924		
2,700.0	2,655.8	2,688.6	2,680.9	9.0	5.6	-176.11	-19.3	145.6	273.2	263.9	9.33	29.280		
2,800.0	2,753.3	2,787.7	2,779.6	9.4	5.9	-176.46	-20.3	154.7	286.6	276.9	9.68	29.611		
2,900.0	2,850.7	2,886.8	2,878.2	9.9	6.1	-176.78	-21.3	163.7	300.0	290.0	10.03	29.919		
3,000.0	2,948.2	2,985.9	2,976.9	10.3	6.3	-177.08	-22.3	172.8	313.4	303.1	10.38	30.207		
3,100.0	3,045.6	3,085.0	3,075.6	10.7	6.6	-177.35	-23.4	181.8	326.9	316.2	10.73	30.476		
3,200.0	3,143.0	3,184.1	3,174.2	11.2	6.8	-177.60	-24.4	190.8	340.3	329.3	11.08	30.729		
3,300.0	3,240.5	3,283.1	3,272.9	11.6	7.0	-177.83	-25.4	199.9	353.8	342.4	11.42	30.966		
3,400.0	3,337.9	3,382.2	3,371.5	12.0	7.3	-178.04	-26.4	208.9	367.2	355.5	11.77	31.190		
3,500.0	3,435.3	3,481.3	3,470.2	12.5	7.5	-178.24	-27.4	217.9	380.7	368.6	12.12	31.401		
3,600.0	3,532.8	3,580.4	3,568.9	12.9	7.7	-178.42	-28.4	227.0	394.1	381.7	12.47	31.600		
3,700.0	3,630.2	3,679.5	3,667.5	13.3	8.0	-178.59	-29.4	236.0	407.6	394.8	12.82	31.788		
3,800.0	3,727.7	3,778.6	3,766.2	13.8	8.2	-178.75	-30.4	245.0	421.1	407.9	13.17	31.967		
3,900.0	3,825.1	3,877.6	3,864.9	14.2	8.4	-178.90	-31.5	254.1	434.6	421.0	13.52	32.136		
4,000.0	3,922.5	3,976.7	3,963.5	14.6	8.7	-179.05	-32.5	263.1	448.0	434.2	13.87	32.297		
4,100.0	4,020.0	4,075.8	4,062.2	15.1	8.9	-179.18	-33.5	272.1	461.5	447.3	14.22	32.450		
4,200.0	4,117.4	4,174.9	4,160.9	15.5	9.1	-179.31	-34.5	281.2	475.0	460.4	14.57	32.595		
4,300.0	4,214.9	4,274.0	4,259.5	16.0	9.4	-179.43	-35.5	290.2	488.5	473.5	14.92	32.734		
4,400.0	4,312.3	4,373.0	4,358.2	16.4	9.6	-179.54	-36.5	299.2	502.0	486.7	15.27	32.866		
4,500.0	4,409.7	4,472.1	4,456.8	16.8	9.9	-179.65	-37.5	308.3	515.4	499.8	15.62	32.993		
4,600.0	4,507.2	4,571.2	4,555.5	17.3	10.1	-179.75	-38.6	317.3	528.9	513.0	15.97	33.114		
4,700.0	4,604.6	4,670.3	4,654.2	17.7	10.3	-179.84	-39.6	326.3	542.4	526.1	16.32	33.230		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-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	
4,800.0	4,702.0	4,769.4	4,752.8	18.1	10.6	-179.94	-40.6	335.4	555.9	539.2	16.67	33.341	
4,900.0	4,799.5	4,868.5	4,851.5	18.6	10.8	179.98	-41.6	344.4	569.4	552.4	17.02	33.447	
5,000.0	4,896.9	4,967.5	4,950.2	19.0	11.0	179.89	-42.6	353.5	582.9	565.5	17.37	33.549	
5,100.0	4,994.4	5,066.6	5,048.8	19.4	11.3	179.81	-43.6	362.5	596.4	578.7	17.72	33.647	
5,200.0	5,091.8	5,165.7	5,147.5	19.9	11.5	179.74	-44.6	371.5	609.9	591.8	18.08	33.741	
5,300.0	5,189.2	5,264.8	5,246.2	20.3	11.7	179.67	-45.6	380.6	623.4	605.0	18.43	33.832	
5,400.0	5,286.7	5,363.9	5,344.8	20.8	12.0	179.60	-46.7	389.6	636.9	618.1	18.78	33.919	
5,500.0	5,384.1	5,462.9	5,443.5	21.2	12.2	179.53	-47.7	398.6	650.4	631.2	19.13	34.003	
5,600.0	5,481.6	5,562.0	5,542.2	21.6	12.4	179.47	-48.7	407.7	663.9	644.4	19.48	34.085	
5,700.0	5,579.0	5,661.1	5,640.8	22.1	12.7	179.40	-49.7	416.7	677.4	657.5	19.83	34.163	
5,800.0	5,676.4	5,760.2	5,739.5	22.5	12.9	179.34	-50.7	425.7	690.9	670.7	20.18	34.238	
5,900.0	5,773.9	5,859.3	5,838.1	22.9	13.1	179.29	-51.7	434.8	704.4	683.8	20.53	34.311	
6,000.0	5,871.3	5,958.4	5,936.8	23.4	13.4	179.23	-52.7	443.8	717.9	697.0	20.88	34.382	
6,100.0	5,968.7	6,057.4	6,035.5	23.8	13.6	179.18	-53.7	452.8	731.4	710.2	21.23	34.450	
6,200.0	6,066.2	6,156.5	6,134.1	24.3	13.8	179.13	-54.8	461.9	744.9	723.3	21.58	34.516	
6,300.0	6,163.6	6,255.6	6,232.8	24.7	14.1	179.08	-55.8	470.9	758.4	736.5	21.93	34.580	
6,400.0	6,261.1	6,354.7	6,331.5	25.1	14.3	179.03	-56.8	479.9	771.9	749.6	22.28	34.641	
6,500.0	6,358.5	6,453.8	6,430.1	25.6	14.5	178.99	-57.8	489.0	785.4	762.8	22.63	34.701	
6,600.0	6,455.9	6,552.8	6,528.8	26.0	14.8	178.94	-58.8	498.0	798.9	775.9	22.98	34.759	
6,700.0	6,553.4	6,651.9	6,627.5	26.5	15.0	178.90	-59.8	507.1	812.4	789.1	23.33	34.816	
6,800.0	6,650.8	6,751.0	6,726.1	26.9	15.2	178.86	-60.8	516.1	825.9	802.2	23.69	34.870	
6,900.0	6,748.3	6,850.1	6,824.8	27.3	15.5	178.82	-61.8	525.1	839.4	815.4	24.04	34.923	
7,000.0	6,845.7	6,949.2	6,923.4	27.8	15.7	178.78	-62.9	534.2	852.9	828.5	24.39	34.975	
7,100.0	6,943.1	7,049.3	7,022.8	28.2	15.9	179.32	-55.3	543.3	866.4	841.7	24.69	35.086	
7,200.0	7,040.6	7,144.0	7,114.1	28.6	16.1	-179.15	-32.2	552.0	880.1	855.1	24.97	35.240	
7,300.0	7,138.0	7,229.1	7,191.9	29.1	16.3	-176.99	1.1	559.4	895.4	870.0	25.35	35.323	
7,341.8	7,178.7	7,261.3	7,220.0	29.3	16.4	-175.99	16.7	562.2	902.6	877.0	25.56	35.308	
7,350.0	7,186.7	7,267.4	7,225.2	29.3	16.4	-172.09	19.8	562.7	904.1	878.5	25.62	35.286	
7,400.0	7,235.4	7,304.2	7,255.9	29.5	16.5	-149.63	39.8	565.7	913.4	887.3	26.05	35.063	
7,450.0	7,283.6	7,340.2	7,284.6	29.7	16.6	-131.88	61.3	568.6	923.0	896.4	26.60	34.700	
7,500.0	7,331.0	7,375.5	7,311.4	29.9	16.8	-119.06	84.1	571.3	932.8	905.5	27.25	34.237	
7,550.0	7,377.4	7,410.2	7,336.4	30.1	16.9	-109.78	108.1	573.8	942.6	914.7	27.95	33.724	
7,600.0	7,422.2	7,450.0	7,363.2	30.3	17.0	-102.71	137.4	576.6	952.4	923.6	28.75	33.132	
7,650.0	7,465.2	7,478.3	7,380.9	30.5	17.2	-97.45	159.3	578.4	961.9	932.5	29.40	32.714	
7,700.0	7,506.0	7,511.8	7,400.5	30.7	17.3	-93.14	186.4	580.5	971.0	940.9	30.07	32.288	
7,750.0	7,544.4	7,550.0	7,421.0	30.9	17.5	-89.54	218.6	582.7	979.7	948.9	30.73	31.877	
7,800.0	7,580.0	7,577.8	7,434.4	31.1	17.7	-86.71	242.8	584.2	987.7	956.6	31.19	31.670	
7,850.0	7,612.6	7,610.4	7,448.7	31.3	17.9	-84.28	272.1	585.8	995.2	963.6	31.60	31.490	
7,900.0	7,641.9	7,650.0	7,463.8	31.5	18.2	-82.18	308.7	587.6	1,001.8	969.8	32.00	31.309	
7,950.0	7,667.7	7,675.1	7,472.0	31.7	18.3	-80.60	332.4	588.6	1,007.6	975.5	32.14	31.348	
8,000.0	7,689.8	7,700.0	7,479.2	32.0	18.5	-79.30	356.2	589.5	1,012.6	980.4	32.20	31.444	
8,050.0	7,708.0	7,739.2	7,488.3	32.2	18.8	-78.17	394.3	590.7	1,016.5	984.2	32.36	31.413	
8,100.0	7,722.3	7,771.1	7,493.9	32.4	19.1	-77.37	425.7	591.6	1,019.5	987.2	32.39	31.476	
8,150.0	7,732.4	7,800.0	7,497.4	32.7	19.3	-76.82	454.4	592.2	1,021.5	989.2	32.36	31.566	
8,200.0	7,738.3	7,834.7	7,499.6	33.0	19.7	-76.50	489.0	592.8	1,022.5	990.1	32.40	31.560	
8,244.9	7,740.0	7,867.7	7,500.0	33.2	20.0	-76.42	522.0	593.1	1,022.4	989.9	32.46	31.494	
8,300.0	7,740.0	7,922.8	7,500.0	33.5	20.5	-76.41	577.1	593.7	1,021.5	987.8	33.71	30.304	
8,400.0	7,740.0	8,022.8	7,500.0	34.1	21.6	-76.39	677.1	594.8	1,020.0	983.9	36.10	28.255	
8,500.0	7,740.0	8,122.8	7,500.0	34.8	22.7	-76.37	777.1	595.8	1,018.5	979.8	38.64	26.356	
8,600.0	7,740.0	8,222.8	7,500.0	35.6	24.0	-76.35	877.1	596.9	1,016.9	975.6	41.31	24.618	
8,700.0	7,740.0	8,322.8	7,500.0	36.5	25.3	-76.33	977.1	597.9	1,015.4	971.3	44.08	23.037	
8,800.0	7,740.0	8,422.8	7,500.0	37.4	26.6	-76.31	1,077.0	599.0	1,013.9	967.0	46.93	21.604	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-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		
8,900.0	7,740.0	8,522.8	7,500.0	38.3	28.0	-76.28	1,177.0	600.0	1,012.4	962.5	49.85	20.307		
9,000.0	7,740.0	8,622.7	7,500.0	39.4	29.4	-76.26	1,277.0	601.0	1,010.8	958.0	52.83	19.133		
9,100.0	7,740.0	8,722.7	7,500.0	40.4	30.9	-76.24	1,377.0	602.1	1,009.3	953.5	55.86	18.069		
9,200.0	7,740.0	8,822.7	7,500.0	41.6	32.4	-76.22	1,477.0	603.1	1,007.8	948.9	58.93	17.102		
9,300.0	7,740.0	8,922.7	7,500.0	42.7	33.9	-76.20	1,576.9	604.2	1,006.3	944.2	62.03	16.222		
9,400.0	7,740.0	9,022.7	7,500.0	43.9	35.4	-76.18	1,676.9	605.2	1,004.7	939.6	65.16	15.419		
9,500.0	7,740.0	9,122.7	7,500.0	45.2	37.0	-76.16	1,776.9	606.3	1,003.2	934.9	68.32	14.684		
9,600.0	7,740.0	9,222.7	7,500.0	46.4	38.5	-76.14	1,876.9	607.3	1,001.7	930.2	71.50	14.010		
9,700.0	7,740.0	9,322.7	7,500.0	47.7	40.1	-76.11	1,976.9	608.4	1,000.2	925.5	74.70	13.390		
9,800.0	7,740.0	9,422.6	7,500.0	49.1	41.7	-76.09	2,076.9	609.4	998.6	920.7	77.91	12.818		
9,900.0	7,740.0	9,522.6	7,500.0	50.4	43.3	-76.07	2,176.8	610.5	997.1	916.0	81.14	12.289		
10,000.0	7,740.0	9,622.6	7,500.0	51.8	45.0	-76.05	2,276.8	611.5	995.6	911.2	84.38	11.798		
10,100.0	7,740.0	9,722.6	7,500.0	53.2	46.6	-76.03	2,376.8	612.6	994.1	906.4	87.64	11.343		
10,200.0	7,740.0	9,822.6	7,500.0	54.6	48.2	-76.01	2,476.8	613.6	992.5	901.6	90.90	10.919		
10,300.0	7,740.0	9,922.6	7,500.0	56.1	49.9	-75.98	2,576.8	614.7	991.0	896.8	94.17	10.524		
10,400.0	7,740.0	10,022.6	7,500.0	57.6	51.5	-75.96	2,676.7	615.7	989.5	892.0	97.45	10.154		
10,500.0	7,740.0	10,111.6	7,500.0	59.0	53.0	-75.95	2,765.8	616.3	988.4	887.8	100.56	9.829		
10,527.7	7,740.0	10,135.4	7,500.0	59.4	53.4	-75.95	2,789.5	616.2	988.3	886.9	101.41	9.746		
10,600.0	7,740.0	10,200.0	7,500.0	60.5	54.5	-75.95	2,854.2	615.5	988.7	885.0	103.67	9.537		
10,700.0	7,740.0	10,282.9	7,500.0	62.0	55.9	-75.97	2,937.1	613.5	990.5	883.7	106.71	9.282		
10,800.0	7,740.0	10,368.5	7,500.0	63.5	57.3	-76.01	3,022.6	610.3	993.7	883.9	109.80	9.050		
10,900.0	7,740.0	10,453.9	7,500.0	65.1	58.7	-76.07	3,107.9	605.7	998.3	885.4	112.91	8.842		
11,000.0	7,740.0	10,539.3	7,500.0	66.6	60.1	-76.14	3,193.0	599.9	1,004.4	888.4	116.02	8.657		
11,100.0	7,740.0	10,624.4	7,500.0	68.2	61.5	-76.23	3,277.9	592.9	1,012.0	892.8	119.15	8.493		
11,200.0	7,740.0	10,709.3	7,500.0	69.7	62.9	-76.34	3,362.4	584.6	1,021.0	898.7	122.28	8.349		
11,300.0	7,740.0	10,800.0	7,500.0	71.3	64.4	-76.47	3,452.5	574.3	1,031.4	905.9	125.53	8.217		
11,400.0	7,740.0	10,878.4	7,500.0	72.9	65.7	-76.59	3,530.3	564.3	1,043.2	914.7	128.57	8.114		
11,500.0	7,740.0	10,972.6	7,500.0	74.5	67.3	-76.75	3,623.5	551.3	1,056.2	924.3	131.90	8.008		
11,600.0	7,740.0	11,071.7	7,500.0	76.1	68.9	-76.92	3,721.7	537.5	1,069.3	933.9	135.32	7.902		
11,700.0	7,740.0	11,170.8	7,500.0	77.7	70.6	-77.08	3,819.8	523.7	1,082.3	943.6	138.74	7.801		
11,800.0	7,740.0	11,273.0	7,500.0	79.3	72.3	-77.24	3,921.0	509.5	1,095.4	953.1	142.23	7.701		
11,900.0	7,740.0	11,395.2	7,500.0	80.9	74.3	-77.41	4,042.3	494.1	1,107.1	961.1	146.06	7.580		
12,000.0	7,740.0	11,518.0	7,500.0	82.5	76.4	-77.54	4,164.4	481.3	1,116.8	966.9	149.90	7.450		
12,100.0	7,740.0	11,641.2	7,500.0	84.2	78.5	-77.65	4,287.2	471.1	1,124.4	970.7	153.73	7.314		
12,200.0	7,740.0	11,764.8	7,500.0	85.8	80.6	-77.72	4,410.6	463.4	1,129.9	972.4	157.56	7.172		
12,300.0	7,740.0	11,888.7	7,500.0	87.4	82.7	-77.77	4,534.3	458.5	1,133.3	972.0	161.38	7.023		
12,400.0	7,740.0	12,012.7	7,500.0	89.1	84.9	-77.79	4,658.2	456.2	1,134.6	969.4	165.18	6.869		
12,500.0	7,740.0	12,136.7	7,500.0	90.7	87.0	-77.78	4,782.2	456.6	1,133.8	964.8	168.97	6.710		
12,600.0	7,740.0	12,242.9	7,500.0	92.4	88.9	-77.75	4,888.5	458.6	1,131.4	959.0	172.45	6.561		
12,700.0	7,740.0	12,342.9	7,500.0	94.0	90.6	-77.72	4,988.4	460.6	1,129.0	953.2	175.83	6.421		
12,800.0	7,740.0	12,442.9	7,500.0	95.7	92.3	-77.70	5,088.4	462.6	1,126.6	947.4	179.20	6.286		
12,900.0	7,740.0	12,542.8	7,500.0	97.3	94.0	-77.67	5,188.3	464.5	1,124.1	941.5	182.58	6.157		
13,000.0	7,740.0	12,642.8	7,500.0	99.0	95.8	-77.64	5,288.3	466.5	1,121.7	935.7	185.96	6.032		
13,100.0	7,740.0	12,742.8	7,500.0	100.7	97.5	-77.61	5,388.2	468.5	1,119.2	929.9	189.33	5.912		
13,200.0	7,740.0	12,842.7	7,500.0	102.3	99.2	-77.59	5,488.2	470.4	1,116.8	924.1	192.71	5.795		
13,300.0	7,740.0	12,942.7	7,500.0	104.0	101.0	-77.56	5,588.1	472.4	1,114.4	918.3	196.09	5.683		
13,400.0	7,740.0	13,042.7	7,500.0	105.7	102.7	-77.53	5,688.1	474.4	1,111.9	912.5	199.46	5.575		
13,500.0	7,740.0	13,142.6	7,500.0	107.3	104.5	-77.50	5,788.0	476.4	1,109.5	906.6	202.84	5.470		
13,600.0	7,740.0	13,242.6	7,500.0	109.0	106.2	-77.48	5,888.0	478.3	1,107.1	900.8	206.22	5.368		
13,700.0	7,740.0	13,342.6	7,500.0	110.7	107.9	-77.45	5,987.9	480.3	1,104.6	895.0	209.60	5.270		
13,800.0	7,740.0	13,442.5	7,500.0	112.4	109.7	-77.42	6,087.9	482.3	1,102.2	889.2	212.98	5.175		
13,900.0	7,740.0	13,542.5	7,500.0	114.1	111.4	-77.39	6,187.8	484.2	1,099.7	883.4	216.35	5.083		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2D-7H-E168 - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
14,000.0	7,740.0	13,642.5	7,500.0	115.8	113.1	-77.36	6,287.8	486.2	1,097.3	877.6	219.73	4.994		
14,100.0	7,740.0	13,742.4	7,500.0	117.5	114.9	-77.33	6,387.7	488.2	1,094.9	871.8	223.11	4.907		
14,200.0	7,740.0	13,842.4	7,500.0	119.2	116.6	-77.31	6,487.7	490.2	1,092.4	866.0	226.48	4.823		
14,300.0	7,740.0	13,942.4	7,500.0	120.8	118.4	-77.28	6,587.6	492.1	1,090.0	860.1	229.86	4.742		
14,400.0	7,740.0	14,042.4	7,500.0	122.5	120.1	-77.25	6,687.6	494.1	1,087.6	854.3	233.24	4.663		
14,500.0	7,740.0	14,142.3	7,500.0	124.2	121.8	-77.22	6,787.5	496.1	1,085.1	848.5	236.61	4.586		
14,600.0	7,740.0	14,242.3	7,500.0	125.9	123.6	-77.19	6,887.5	498.0	1,082.7	842.7	239.99	4.511		
14,700.0	7,740.0	14,342.3	7,500.0	127.6	125.3	-77.16	6,987.4	500.0	1,080.3	836.9	243.36	4.439		
14,800.0	7,740.0	14,442.2	7,500.0	129.3	127.1	-77.13	7,087.4	502.0	1,077.8	831.1	246.74	4.368		
14,839.0	7,740.0	14,455.0	7,500.0	130.0	127.3	-77.13	7,100.2	502.2	1,077.2	829.6	247.62	4.350		
14,844.9	7,740.0	14,455.0	7,500.0	130.1	127.3	-77.13	7,100.2	502.2	1,077.2	829.5	247.71	4.349 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-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	-88.94	0.4	-19.9	19.9				
100.0	100.0	100.0	100.0	0.2	0.2	-88.94	0.4	-19.9	19.9	19.6	0.30	65.445	CC, ES
200.0	200.0	200.0	200.0	0.3	0.3	-88.94	0.4	-19.9	19.9	19.2	0.65	30.448	
250.0	250.0	250.0	250.0	0.4	0.4	-88.94	0.4	-19.9	19.9	19.0	0.83	24.024	
300.0	300.0	300.0	300.0	0.5	0.5	171.16	0.4	-19.9	20.1	19.1	1.00	20.054	
400.0	400.0	400.0	400.0	0.7	0.7	171.86	0.4	-19.9	21.8	20.5	1.35	16.153	
500.0	499.9	500.4	500.3	0.9	0.9	172.94	0.3	-19.0	24.4	22.7	1.70	14.354	
600.0	599.8	600.8	600.7	1.1	1.0	174.21	0.1	-16.4	27.0	24.9	2.05	13.166	
700.0	699.5	701.2	701.1	1.3	1.2	175.61	-0.2	-12.0	29.6	27.2	2.40	12.325	
800.0	799.2	801.7	801.4	1.5	1.4	177.11	-0.6	-5.8	32.1	29.4	2.75	11.701	
900.0	898.6	902.3	901.6	1.7	1.6	178.69	-1.2	2.1	34.7	31.6	3.09	11.222	
1,000.0	997.9	1,002.9	1,001.8	2.0	1.8	-179.67	-1.8	11.7	37.3	33.9	3.44	10.846	
1,100.0	1,096.9	1,103.3	1,101.6	2.3	2.1	-177.99	-2.6	23.1	40.1	36.3	3.79	10.561	
1,200.0	1,195.7	1,203.2	1,200.8	2.6	2.3	-176.57	-3.5	34.8	44.1	39.9	4.14	10.637	
1,300.0	1,294.1	1,303.1	1,299.9	2.9	2.6	-175.55	-4.3	46.6	49.8	45.3	4.49	11.091	
1,400.0	1,392.3	1,402.8	1,398.9	3.3	2.8	-174.90	-5.1	58.3	57.4	52.5	4.84	11.839	
1,500.0	1,490.1	1,502.3	1,497.8	3.7	3.1	-174.54	-5.9	70.0	66.6	61.4	5.20	12.823	
1,600.0	1,587.5	1,601.7	1,596.5	4.1	3.4	-174.40	-6.8	81.7	77.6	72.1	5.54	14.000	
1,700.0	1,684.6	1,700.9	1,695.0	4.5	3.6	-174.39	-7.6	93.3	90.3	84.4	5.89	15.335	
1,750.0	1,732.9	1,750.4	1,744.2	4.8	3.7	-174.43	-8.0	99.1	97.3	91.3	6.06	16.055	
1,800.0	1,781.2	1,799.9	1,793.3	5.0	3.9	-172.66	-8.4	104.9	104.5	98.3	6.24	16.745	
1,900.0	1,877.8	1,898.9	1,891.6	5.5	4.1	-169.68	-9.2	116.6	118.7	112.1	6.59	17.997	
1,981.2	1,956.2	1,979.2	1,971.4	5.9	4.3	-167.69	-9.9	126.0	130.0	123.1	6.87	18.913	
2,000.0	1,974.4	1,997.9	1,989.9	6.0	4.4	-167.99	-10.0	128.2	132.6	125.6	6.94	19.107	
2,100.0	2,071.3	2,097.0	2,088.3	6.4	4.7	-169.32	-10.8	139.9	145.3	138.1	7.29	19.945	
2,181.5	2,150.7	2,178.0	2,168.7	6.7	4.9	-170.17	-11.5	149.4	154.5	147.0	7.57	20.404	
2,200.0	2,168.6	2,196.3	2,187.0	6.8	4.9	-170.33	-11.7	151.5	156.5	148.9	7.64	20.492	
2,300.0	2,266.1	2,295.7	2,285.7	7.3	5.2	-171.16	-12.5	163.2	167.1	159.2	7.98	20.941	
2,400.0	2,363.5	2,395.1	2,384.4	7.7	5.5	-171.90	-13.3	174.9	177.8	169.5	8.33	21.356	
2,500.0	2,461.0	2,494.5	2,483.1	8.1	5.7	-172.54	-14.1	186.6	188.5	179.8	8.67	21.739	
2,600.0	2,558.4	2,594.0	2,581.8	8.6	6.0	-173.12	-14.9	198.3	199.2	190.2	9.02	22.094	
2,700.0	2,655.8	2,693.4	2,680.5	9.0	6.3	-173.64	-15.8	210.0	209.9	200.6	9.36	22.424	
2,800.0	2,753.3	2,792.8	2,779.2	9.4	6.5	-174.11	-16.6	221.6	220.7	211.0	9.71	22.730	
2,900.0	2,850.7	2,892.2	2,878.0	9.9	6.8	-174.54	-17.4	233.3	231.4	221.4	10.05	23.016	
3,000.0	2,948.2	2,991.6	2,976.7	10.3	7.1	-174.92	-18.2	245.0	242.2	231.8	10.40	23.284	
3,100.0	3,045.6	3,091.0	3,075.4	10.7	7.3	-175.28	-19.0	256.7	253.0	242.2	10.75	23.534	
3,200.0	3,143.0	3,190.4	3,174.1	11.2	7.6	-175.60	-19.9	268.4	263.7	252.7	11.10	23.769	
3,300.0	3,240.5	3,289.8	3,272.8	11.6	7.9	-175.90	-20.7	280.1	274.5	263.1	11.44	23.990	
3,400.0	3,337.9	3,389.2	3,371.5	12.0	8.1	-176.18	-21.5	291.7	285.3	273.5	11.79	24.197	
3,500.0	3,435.3	3,488.6	3,470.2	12.5	8.4	-176.44	-22.3	303.4	296.1	284.0	12.14	24.393	
3,600.0	3,532.8	3,588.0	3,568.9	12.9	8.7	-176.68	-23.1	315.1	307.0	294.5	12.49	24.579	
3,700.0	3,630.2	3,687.4	3,667.7	13.3	8.9	-176.90	-24.0	326.8	317.8	304.9	12.84	24.754	
3,800.0	3,727.7	3,786.8	3,766.4	13.8	9.2	-177.11	-24.8	338.5	328.6	315.4	13.19	24.920	
3,900.0	3,825.1	3,886.2	3,865.1	14.2	9.5	-177.30	-25.6	350.2	339.4	325.9	13.54	25.077	
4,000.0	3,922.5	3,985.6	3,963.8	14.6	9.7	-177.49	-26.4	361.8	350.2	336.4	13.88	25.227	
4,100.0	4,020.0	4,085.0	4,062.5	15.1	10.0	-177.66	-27.2	373.5	361.1	346.8	14.23	25.369	
4,200.0	4,117.4	4,184.4	4,161.2	15.5	10.3	-177.82	-28.1	385.2	371.9	357.3	14.58	25.504	
4,300.0	4,214.9	4,283.9	4,259.9	16.0	10.5	-177.97	-28.9	396.9	382.8	367.8	14.93	25.633	
4,400.0	4,312.3	4,383.3	4,358.7	16.4	10.8	-178.12	-29.7	408.6	393.6	378.3	15.28	25.756	
4,500.0	4,409.7	4,482.7	4,457.4	16.8	11.1	-178.25	-30.5	420.3	404.4	388.8	15.63	25.874	
4,600.0	4,507.2	4,582.1	4,556.1	17.3	11.3	-178.38	-31.3	432.0	415.3	399.3	15.98	25.986	
4,700.0	4,604.6	4,681.5	4,654.8	17.7	11.6	-178.51	-32.2	443.6	426.1	409.8	16.33	26.094	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,702.0	4,780.9	4,753.5	18.1	11.9	-178.62	-33.0	455.3	437.0	420.3	16.68	26.197	
4,900.0	4,799.5	4,880.3	4,852.2	18.6	12.1	-178.73	-33.8	467.0	447.8	430.8	17.03	26.296	
5,000.0	4,896.9	4,979.7	4,950.9	19.0	12.4	-178.84	-34.6	478.7	458.7	441.3	17.38	26.391	
5,100.0	4,994.4	5,079.1	5,049.7	19.4	12.7	-178.94	-35.4	490.4	469.5	451.8	17.73	26.482	
5,200.0	5,091.8	5,178.5	5,148.4	19.9	12.9	-179.04	-36.3	502.1	480.4	462.3	18.08	26.570	
5,300.0	5,189.2	5,277.9	5,247.1	20.3	13.2	-179.13	-37.1	513.7	491.2	472.8	18.43	26.654	
5,400.0	5,286.7	5,377.3	5,345.8	20.8	13.5	-179.22	-37.9	525.4	502.1	483.3	18.78	26.735	
5,500.0	5,384.1	5,476.7	5,444.5	21.2	13.8	-179.30	-38.7	537.1	513.0	493.8	19.13	26.813	
5,600.0	5,481.6	5,576.1	5,543.2	21.6	14.0	-179.38	-39.5	548.8	523.8	504.3	19.48	26.889	
5,700.0	5,579.0	5,675.5	5,641.9	22.1	14.3	-179.46	-40.4	560.5	534.7	514.8	19.83	26.961	
5,800.0	5,676.4	5,774.9	5,740.6	22.5	14.6	-179.53	-41.2	572.2	545.5	525.4	20.18	27.031	
5,900.0	5,773.9	5,874.4	5,839.4	22.9	14.8	-179.61	-42.0	583.8	556.4	535.9	20.53	27.099	
6,000.0	5,871.3	5,973.8	5,938.1	23.4	15.1	-179.67	-42.8	595.5	567.3	546.4	20.88	27.164	
6,100.0	5,968.7	6,073.2	6,036.8	23.8	15.4	-179.74	-43.6	607.2	578.1	556.9	21.23	27.228	
6,200.0	6,066.2	6,172.6	6,135.5	24.3	15.6	-179.80	-44.5	618.9	589.0	567.4	21.58	27.289	
6,300.0	6,163.6	6,272.0	6,234.2	24.7	15.9	-179.87	-45.3	630.6	599.9	577.9	21.93	27.348	
6,400.0	6,261.1	6,371.4	6,332.9	25.1	16.2	-179.93	-46.1	642.3	610.7	588.4	22.28	27.405	
6,500.0	6,358.5	6,470.8	6,431.6	25.6	16.4	-179.98	-46.9	653.9	621.6	599.0	22.64	27.461	
6,600.0	6,455.9	6,570.2	6,530.4	26.0	16.7	179.96	-47.7	665.6	632.5	609.5	22.99	27.515	
6,700.0	6,553.4	6,669.6	6,629.1	26.5	17.0	179.91	-48.6	677.3	643.3	620.0	23.34	27.567	
6,800.0	6,650.8	6,769.0	6,727.8	26.9	17.2	179.86	-49.4	689.0	654.2	630.5	23.69	27.618	
6,900.0	6,748.3	6,868.4	6,826.5	27.3	17.5	179.81	-50.2	700.7	665.1	641.0	24.04	27.667	
7,000.0	6,845.7	6,967.8	6,925.2	27.8	17.8	179.76	-51.0	712.4	675.9	651.5	24.39	27.715	
7,100.0	6,943.1	7,067.2	7,023.9	28.2	18.1	179.71	-51.8	724.0	686.8	662.1	24.74	27.761	
7,200.0	7,040.6	7,166.6	7,122.6	28.6	18.3	179.67	-52.7	735.7	697.7	672.6	25.09	27.806	
7,300.0	7,138.0	7,264.5	7,219.8	29.1	18.6	179.83	-50.9	747.2	708.6	683.2	25.43	27.870	
7,341.8	7,178.7	7,304.3	7,259.0	29.3	18.7	-179.77	-46.0	751.8	713.3	687.7	25.55	27.916	
7,350.0	7,186.7	7,312.1	7,266.6	29.3	18.7	-176.02	-44.8	752.7	714.2	688.7	25.57	27.927	
7,400.0	7,235.4	7,358.9	7,312.1	29.5	18.8	-154.49	-35.0	758.0	720.0	694.2	25.74	27.970	
7,450.0	7,283.6	7,405.2	7,356.1	29.7	18.9	-137.64	-21.7	763.1	725.7	699.8	25.96	27.953	
7,500.0	7,331.0	7,450.0	7,397.6	29.9	19.0	-125.70	-5.4	767.8	731.5	705.2	26.24	27.881	
7,550.0	7,377.4	7,496.3	7,439.0	30.1	19.2	-117.25	14.8	772.6	737.1	710.6	26.58	27.733	
7,600.0	7,422.2	7,541.3	7,477.5	30.3	19.3	-111.10	37.5	776.9	742.7	715.7	26.98	27.527	
7,650.0	7,465.2	7,585.9	7,513.8	30.5	19.4	-106.45	63.0	781.0	748.0	720.6	27.43	27.271	
7,700.0	7,506.0	7,630.1	7,547.9	30.7	19.6	-102.83	91.0	784.8	753.1	725.2	27.92	26.976	
7,750.0	7,544.4	7,674.1	7,579.5	30.9	19.7	-99.95	121.5	788.2	758.0	729.5	28.44	26.654	
7,800.0	7,580.0	7,717.9	7,608.5	31.1	19.9	-97.62	154.0	791.4	762.5	733.5	28.97	26.316	
7,850.0	7,612.6	7,761.4	7,634.8	31.3	20.1	-95.72	188.5	794.2	766.6	737.1	29.52	25.971	
7,900.0	7,641.9	7,804.8	7,658.4	31.5	20.3	-94.16	224.8	796.7	770.4	740.3	30.07	25.623	
7,950.0	7,667.7	7,850.0	7,680.1	31.7	20.5	-92.90	264.5	798.9	773.7	743.0	30.63	25.261	
8,000.0	7,689.8	7,891.1	7,697.0	32.0	20.8	-91.90	301.9	800.6	776.5	745.3	31.16	24.924	
8,050.0	7,708.0	7,934.2	7,711.8	32.2	21.0	-91.12	342.3	802.0	778.9	747.2	31.69	24.574	
8,100.0	7,722.3	7,977.2	7,723.5	32.4	21.3	-90.55	383.7	803.0	780.7	748.5	32.23	24.223	
8,150.0	7,732.4	8,020.2	7,732.2	32.7	21.6	-90.18	425.8	803.7	782.0	749.2	32.77	23.866	
8,200.0	7,738.3	8,063.2	7,737.6	33.0	22.0	-90.00	468.4	803.9	782.8	749.5	33.31	23.501	
8,244.9	7,740.0	8,101.8	7,739.8	33.2	22.3	-89.99	506.9	803.9	783.0	749.2	33.80	23.164	
8,300.0	7,740.0	8,154.7	7,740.0	33.5	22.7	-90.00	559.9	803.4	783.2	748.2	35.03	22.358	
8,400.0	7,740.0	8,254.7	7,740.0	34.1	23.6	-90.00	659.9	802.5	783.6	746.1	37.43	20.933	
8,500.0	7,740.0	8,354.7	7,740.0	34.8	24.7	-90.00	759.9	801.7	783.9	743.9	40.00	19.600	
8,600.0	7,740.0	8,454.7	7,740.0	35.6	25.8	-90.00	859.9	800.8	784.3	741.6	42.69	18.370	
8,700.0	7,740.0	8,554.7	7,740.0	36.5	26.9	-90.00	959.9	799.9	784.6	739.1	45.50	17.244	
8,800.0	7,740.0	8,654.7	7,740.0	37.4	28.2	-90.00	1,059.9	799.0	785.0	736.6	48.40	16.218	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-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	
8,900.0	7,740.0	8,754.7	7,740.0	38.3	29.4	-90.00	1,159.9	798.2	785.3	733.9	51.38	15.285		
9,000.0	7,740.0	8,854.7	7,740.0	39.4	30.8	-90.00	1,259.9	797.3	785.7	731.2	54.42	14.438		
9,100.0	7,740.0	8,954.7	7,740.0	40.4	32.1	-90.00	1,359.9	796.4	786.0	728.5	57.51	13.667		
9,200.0	7,740.0	9,054.7	7,740.0	41.6	33.5	-90.00	1,459.9	795.6	786.4	725.7	60.65	12.966		
9,300.0	7,740.0	9,154.7	7,740.0	42.7	35.0	-90.00	1,559.8	794.7	786.7	722.9	63.82	12.326		
9,400.0	7,740.0	9,254.7	7,740.0	43.9	36.4	-90.00	1,659.8	793.8	787.1	720.0	67.03	11.741		
9,500.0	7,740.0	9,354.7	7,740.0	45.2	37.9	-90.00	1,759.8	792.9	787.4	717.1	70.27	11.205		
9,600.0	7,740.0	9,454.7	7,740.0	46.4	39.4	-90.00	1,859.8	792.1	787.8	714.2	73.54	10.712		
9,700.0	7,740.0	9,554.7	7,740.0	47.7	41.0	-90.00	1,959.8	791.2	788.1	711.3	76.82	10.259		
9,800.0	7,740.0	9,654.7	7,740.0	49.1	42.5	-90.00	2,059.8	790.3	788.5	708.3	80.12	9.840		
9,900.0	7,740.0	9,754.7	7,740.0	50.4	44.1	-90.00	2,159.8	789.4	788.8	705.4	83.45	9.453		
10,000.0	7,740.0	9,854.7	7,740.0	51.8	45.7	-90.00	2,259.8	788.6	789.1	702.4	86.78	9.094		
10,100.0	7,740.0	9,954.7	7,740.0	53.2	47.3	-90.00	2,359.8	787.7	789.5	699.4	90.13	8.760		
10,200.0	7,740.0	10,054.7	7,740.0	54.6	48.9	-90.00	2,459.8	786.8	789.8	696.4	93.49	8.449		
10,300.0	7,740.0	10,154.7	7,740.0	56.1	50.5	-90.00	2,559.8	786.0	790.2	693.3	96.86	8.158		
10,400.0	7,740.0	10,254.7	7,740.0	57.6	52.1	-90.00	2,659.8	785.1	790.5	690.3	100.24	7.887		
10,500.0	7,740.0	10,354.7	7,740.0	59.0	53.7	-90.00	2,759.8	784.2	790.9	687.3	103.63	7.632		
10,600.0	7,740.0	10,454.7	7,740.0	60.5	55.4	-90.00	2,859.8	783.3	791.2	684.2	107.02	7.393		
10,700.0	7,740.0	10,554.7	7,740.0	62.0	57.0	-90.00	2,959.8	782.5	791.6	681.2	110.43	7.168		
10,800.0	7,740.0	10,654.7	7,740.0	63.5	58.7	-90.00	3,059.8	781.6	791.9	678.1	113.84	6.957		
10,900.0	7,740.0	10,754.7	7,740.0	65.1	60.3	-90.00	3,159.8	780.7	792.3	675.0	117.25	6.757		
11,000.0	7,740.0	10,854.7	7,740.0	66.6	62.0	-90.00	3,259.8	779.8	792.6	672.0	120.67	6.568		
11,100.0	7,740.0	10,954.7	7,740.0	68.2	63.6	-90.00	3,359.8	779.0	793.0	668.9	124.10	6.390		
11,200.0	7,740.0	11,054.7	7,740.0	69.7	65.3	-90.00	3,459.8	778.1	793.3	665.8	127.53	6.221		
11,300.0	7,740.0	11,154.7	7,740.0	71.3	67.0	-90.00	3,559.8	777.2	793.7	662.7	130.96	6.060		
11,400.0	7,740.0	11,254.7	7,740.0	72.9	68.7	-90.00	3,659.8	776.4	794.0	659.6	134.40	5.908		
11,500.0	7,740.0	11,354.7	7,740.0	74.5	70.3	-90.00	3,759.7	775.5	794.4	656.5	137.84	5.763		
11,600.0	7,740.0	11,454.3	7,740.0	76.1	72.2	-90.00	3,869.3	774.9	794.4	652.9	141.45	5.616		
11,700.0	7,740.0	11,550.3	7,740.0	77.7	74.2	-90.00	3,985.3	776.5	792.5	647.3	145.18	5.459		
11,800.0	7,740.0	11,680.9	7,740.0	79.3	75.9	-90.00	4,085.9	778.9	789.6	640.9	148.64	5.312		
11,900.0	7,740.0	11,780.8	7,740.0	80.9	77.6	-90.00	4,185.8	781.4	786.6	634.5	152.09	5.172		
12,000.0	7,740.0	11,880.8	7,740.0	82.5	79.3	-90.00	4,285.7	783.8	783.6	628.1	155.54	5.038		
12,100.0	7,740.0	11,980.8	7,740.0	84.2	81.0	-90.00	4,385.7	786.2	780.7	621.7	159.00	4.910		
12,200.0	7,740.0	12,080.7	7,740.0	85.8	82.7	-90.00	4,485.6	788.7	777.7	615.3	162.46	4.787		
12,300.0	7,740.0	12,180.7	7,740.0	87.4	84.4	-90.00	4,585.5	791.1	774.8	608.9	165.92	4.670		
12,400.0	7,740.0	12,280.6	7,740.0	89.1	86.1	-90.00	4,685.4	793.5	771.8	602.4	169.39	4.557		
12,500.0	7,740.0	12,380.6	7,740.0	90.7	87.9	-90.00	4,785.4	796.0	768.9	596.0	172.85	4.448		
12,600.0	7,740.0	12,480.5	7,740.0	92.4	89.6	-90.00	4,885.3	798.4	765.9	589.6	176.32	4.344		
12,700.0	7,740.0	12,580.5	7,740.0	94.0	91.3	-90.00	4,985.2	800.8	763.0	583.2	179.79	4.244		
12,800.0	7,740.0	12,680.5	7,740.0	95.7	93.0	-90.00	5,085.1	803.3	760.0	576.7	183.26	4.147		
12,900.0	7,740.0	12,780.4	7,740.0	97.3	94.7	-90.00	5,185.1	805.7	757.0	570.3	186.73	4.054		
13,000.0	7,740.0	12,880.4	7,740.0	99.0	96.5	-90.00	5,285.0	808.1	754.1	563.9	190.20	3.965		
13,100.0	7,740.0	12,980.3	7,740.0	100.7	98.2	-90.00	5,384.9	810.5	751.1	557.5	193.67	3.878		
13,200.0	7,740.0	13,080.3	7,740.0	102.3	99.9	-90.00	5,484.9	813.0	748.2	551.0	197.15	3.795		
13,300.0	7,740.0	13,180.2	7,740.0	104.0	101.6	-90.00	5,584.8	815.4	745.2	544.6	200.62	3.715		
13,400.0	7,740.0	13,280.2	7,740.0	105.7	103.4	-90.00	5,684.7	817.8	742.3	538.2	204.10	3.637		
13,500.0	7,740.0	13,380.1	7,740.0	107.3	105.1	-90.00	5,784.6	820.3	739.3	531.7	207.58	3.562		
13,600.0	7,740.0	13,480.1	7,740.0	109.0	106.8	-90.00	5,884.6	822.7	736.4	525.3	211.06	3.489		
13,700.0	7,740.0	13,580.1	7,740.0	110.7	108.5	-90.00	5,984.5	825.1	733.4	518.9	214.54	3.419		
13,800.0	7,740.0	13,680.0	7,740.0	112.4	110.3	-90.00	6,084.4	827.6	730.5	512.4	218.02	3.350		
13,900.0	7,740.0	13,780.0	7,740.0	114.1	112.0	-90.00	6,184.3	830.0	727.5	506.0	221.50	3.284		
14,000.0	7,740.0	13,879.9	7,740.0	115.8	113.7	-90.00	6,284.3	832.4	724.5	499.6	224.98	3.220		

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

Offset Design													S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2E-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		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor					
							+N/-S (ft)	+E/-W (ft)									
14,100.0	7,740.0	13,979.9	7,740.0	117.5	115.5	-90.00	6,384.2	834.9	721.6	493.1	228.47	3.158					
14,200.0	7,740.0	14,079.8	7,740.0	119.2	117.2	-90.00	6,484.1	837.3	718.6	486.7	231.95	3.098					
14,300.0	7,740.0	14,179.8	7,740.0	120.8	118.9	-90.00	6,584.0	839.7	715.7	480.2	235.43	3.040					
14,400.0	7,740.0	14,279.8	7,740.0	122.5	120.7	-90.00	6,684.0	842.1	712.7	473.8	238.92	2.983					
14,500.0	7,740.0	14,379.7	7,740.0	124.2	122.4	-90.00	6,783.9	844.6	709.8	467.4	242.41	2.928					
14,600.0	7,740.0	14,479.7	7,740.0	125.9	124.1	-90.00	6,883.8	847.0	706.8	460.9	245.89	2.874					
14,700.0	7,740.0	14,579.6	7,740.0	127.6	125.9	-90.00	6,983.8	849.4	703.9	454.5	249.38	2.822					
14,800.0	7,740.0	14,679.6	7,740.0	129.3	127.6	-90.00	7,083.7	851.9	700.9	448.0	252.87	2.772					
14,837.2	7,740.0	14,696.1	7,740.0	130.0	127.9	-90.00	7,100.2	852.3	700.1	446.3	253.80	2.758					
14,844.9	7,740.0	14,696.1	7,740.0	130.1	127.9	-90.00	7,100.2	852.3	700.1	446.2	253.94	2.757 SF					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-9.8	9.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-9.8	9.8	9.5	0.30	32.256		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-9.8	9.8	9.1	0.65	15.007		
250.0	250.0	250.0	250.0	0.4	0.4	-89.98	0.0	-9.8	9.8	9.0	0.83	11.841	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	170.24	0.0	-9.8	10.0	9.0	1.00	9.993		
400.0	400.0	400.2	400.2	0.7	0.7	172.45	0.1	-8.9	10.9	9.5	1.35	8.048		
500.0	499.9	500.4	500.3	0.9	0.9	176.98	0.5	-6.3	11.8	10.1	1.70	6.935		
600.0	599.8	600.5	600.4	1.1	1.0	-176.79	1.1	-2.0	12.9	10.8	2.05	6.276		
700.0	699.5	700.7	700.4	1.3	1.2	-169.47	1.9	4.1	14.2	11.8	2.41	5.916		
800.0	799.2	800.9	800.3	1.5	1.4	-161.77	3.0	11.9	16.0	13.3	2.78	5.768		
900.0	898.6	901.1	900.0	1.7	1.7	-154.28	4.3	21.4	18.4	15.2	3.19	5.763		
1,000.0	997.9	1,001.3	999.5	2.0	1.9	-147.43	5.9	32.7	21.3	17.7	3.64	5.848		
1,100.0	1,096.9	1,101.4	1,098.8	2.3	2.2	-141.42	7.7	45.6	24.8	20.7	4.15	5.985		
1,200.0	1,195.7	1,201.5	1,197.8	2.6	2.5	-136.27	9.7	60.3	29.0	24.3	4.72	6.147		
1,300.0	1,294.1	1,301.6	1,296.5	2.9	2.8	-131.92	12.0	76.7	33.8	28.4	5.35	6.317		
1,400.0	1,392.3	1,401.7	1,394.9	3.3	3.2	-128.25	14.5	94.8	39.2	33.1	6.04	6.486		
1,500.0	1,490.1	1,501.6	1,492.9	3.7	3.5	-125.89	17.1	114.0	45.3	38.6	6.76	6.709		
1,600.0	1,587.5	1,601.3	1,590.7	4.1	3.9	-125.62	19.8	133.1	52.5	45.1	7.46	7.043		
1,700.0	1,684.6	1,700.9	1,688.5	4.5	4.2	-126.74	22.4	152.3	60.8	52.6	8.14	7.467		
1,750.0	1,732.9	1,750.7	1,737.3	4.8	4.4	-127.65	23.7	161.9	65.3	56.8	8.47	7.712		
1,800.0	1,781.2	1,800.5	1,786.2	5.0	4.6	-126.82	25.1	171.4	69.8	61.0	8.79	7.937		
1,900.0	1,877.8	1,900.1	1,883.9	5.5	5.0	-125.35	27.7	190.6	77.8	68.4	9.43	8.251		
1,981.2	1,956.2	1,981.1	1,963.3	5.9	5.3	-124.39	29.9	206.1	83.4	73.5	9.92	8.406		
2,000.0	1,974.4	1,999.8	1,981.7	6.0	5.4	-124.89	30.4	209.8	84.6	74.5	10.03	8.434		
2,100.0	2,071.3	2,099.6	2,079.6	6.4	5.7	-126.80	33.0	228.9	90.3	79.7	10.61	8.511		
2,181.5	2,150.7	2,181.1	2,159.5	6.7	6.0	-127.56	35.2	244.6	94.3	83.2	11.12	8.478		
2,200.0	2,168.6	2,199.5	2,177.6	6.8	6.1	-127.65	35.7	248.1	95.1	83.9	11.24	8.460		
2,300.0	2,266.1	2,299.4	2,275.6	7.3	6.5	-128.13	38.3	267.3	99.6	87.7	11.90	8.371		
2,400.0	2,363.5	2,399.3	2,373.6	7.7	6.9	-128.57	41.0	286.5	104.0	91.5	12.55	8.292		
2,500.0	2,461.0	2,499.2	2,471.6	8.1	7.3	-128.98	43.6	305.8	108.5	95.3	13.20	8.222		
2,600.0	2,558.4	2,599.1	2,569.6	8.6	7.6	-129.35	46.3	325.0	113.0	99.1	13.85	8.159		
2,700.0	2,655.8	2,699.0	2,667.6	9.0	8.0	-129.69	48.9	344.2	117.5	103.0	14.50	8.102		
2,800.0	2,753.3	2,798.9	2,765.6	9.4	8.4	-130.01	51.6	363.4	121.9	106.8	15.14	8.051		
2,900.0	2,850.7	2,898.8	2,863.6	9.9	8.8	-130.31	54.2	382.6	126.4	110.6	15.79	8.005		
3,000.0	2,948.2	2,998.7	2,961.6	10.3	9.2	-130.58	56.9	401.8	130.9	114.5	16.44	7.962		
3,100.0	3,045.6	3,098.6	3,059.6	10.7	9.5	-130.84	59.6	421.0	135.4	118.3	17.09	7.924		
3,200.0	3,143.0	3,198.5	3,157.6	11.2	9.9	-131.08	62.2	440.2	139.9	122.2	17.73	7.888		
3,300.0	3,240.5	3,298.4	3,255.6	11.6	10.3	-131.31	64.9	459.4	144.4	126.0	18.38	7.855		
3,400.0	3,337.9	3,398.3	3,353.6	12.0	10.7	-131.52	67.5	478.6	148.9	129.9	19.03	7.825		
3,500.0	3,435.3	3,498.2	3,451.6	12.5	11.1	-131.72	70.2	497.8	153.4	133.7	19.67	7.797		
3,600.0	3,532.8	3,598.1	3,549.5	12.9	11.5	-131.91	72.8	517.0	157.9	137.6	20.32	7.771		
3,700.0	3,630.2	3,698.0	3,647.5	13.3	11.8	-132.09	75.5	536.2	162.4	141.4	20.96	7.747		
3,800.0	3,727.7	3,797.9	3,745.5	13.8	12.2	-132.25	78.1	555.4	166.9	145.3	21.61	7.724		
3,900.0	3,825.1	3,897.8	3,843.5	14.2	12.6	-132.41	80.8	574.6	171.4	149.1	22.25	7.703		
4,000.0	3,922.5	3,997.7	3,941.5	14.6	13.0	-132.56	83.5	593.8	175.9	153.0	22.89	7.683		
4,100.0	4,020.0	4,097.6	4,039.5	15.1	13.4	-132.71	86.1	613.0	180.4	156.9	23.54	7.664		
4,200.0	4,117.4	4,197.5	4,137.5	15.5	13.8	-132.84	88.8	632.2	184.9	160.7	24.18	7.647		
4,300.0	4,214.9	4,297.4	4,235.5	16.0	14.1	-132.98	91.4	651.4	189.4	164.6	24.82	7.631		
4,400.0	4,312.3	4,397.3	4,333.5	16.4	14.5	-133.10	94.1	670.6	193.9	168.5	25.47	7.615		
4,500.0	4,409.7	4,497.2	4,431.5	16.8	14.9	-133.22	96.7	689.8	198.4	172.3	26.11	7.600		
4,600.0	4,507.2	4,597.0	4,529.5	17.3	15.3	-133.33	99.4	709.0	203.0	176.2	26.75	7.587		
4,700.0	4,604.6	4,696.9	4,627.5	17.7	15.7	-133.44	102.0	728.2	207.5	180.1	27.39	7.573		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,702.0	4,796.8	4,725.5	18.1	16.1	-133.54	104.7	747.4	212.0	183.9	28.04	7.561	
4,900.0	4,799.5	4,896.7	4,823.5	18.6	16.5	-133.64	107.3	766.6	216.5	187.8	28.68	7.549	
5,000.0	4,896.9	4,996.6	4,921.5	19.0	16.8	-133.74	110.0	785.8	221.0	191.7	29.32	7.538	
5,100.0	4,994.4	5,096.5	5,019.5	19.4	17.2	-133.83	112.7	805.0	225.5	195.6	29.96	7.527	
5,200.0	5,091.8	5,196.4	5,117.5	19.9	17.6	-133.92	115.3	824.2	230.0	199.4	30.60	7.517	
5,300.0	5,189.2	5,296.3	5,215.5	20.3	18.0	-134.00	118.0	843.4	234.6	203.3	31.24	7.507	
5,400.0	5,286.7	5,396.2	5,313.5	20.8	18.4	-134.08	120.6	862.7	239.1	207.2	31.88	7.498	
5,500.0	5,384.1	5,496.1	5,411.5	21.2	18.8	-134.16	123.3	881.9	243.6	211.1	32.53	7.489	
5,600.0	5,481.6	5,596.0	5,509.5	21.6	19.2	-134.24	125.9	901.1	248.1	214.9	33.17	7.481	
5,700.0	5,579.0	5,695.9	5,607.5	22.1	19.5	-134.31	128.6	920.3	252.6	218.8	33.81	7.473	
5,800.0	5,676.4	5,795.8	5,705.5	22.5	19.9	-134.38	131.2	939.5	257.1	222.7	34.45	7.465	
5,900.0	5,773.9	5,895.7	5,803.5	22.9	20.3	-134.45	133.9	958.7	261.7	226.6	35.09	7.457	
6,000.0	5,871.3	5,995.6	5,901.5	23.4	20.7	-134.51	136.5	977.9	266.2	230.5	35.73	7.450	
6,100.0	5,968.7	6,095.5	5,999.5	23.8	21.1	-134.58	139.2	997.1	270.7	234.3	36.37	7.443	
6,200.0	6,066.2	6,195.4	6,097.5	24.3	21.5	-134.64	141.9	1,016.3	275.2	238.2	37.01	7.436	
6,300.0	6,163.6	6,295.3	6,195.5	24.7	21.9	-134.70	144.5	1,035.5	279.7	242.1	37.65	7.430	
6,400.0	6,261.1	6,395.2	6,293.5	25.1	22.2	-134.75	147.2	1,054.7	284.3	246.0	38.29	7.424	
6,500.0	6,358.5	6,495.1	6,391.5	25.6	22.6	-134.81	149.8	1,073.9	288.8	249.9	38.93	7.418	
6,600.0	6,455.9	6,595.0	6,489.5	26.0	23.0	-134.86	152.5	1,093.1	293.3	253.7	39.57	7.412	
6,700.0	6,553.4	6,694.9	6,587.5	26.5	23.4	-134.92	155.1	1,112.3	297.8	257.6	40.21	7.407	
6,800.0	6,650.8	6,794.8	6,685.5	26.9	23.8	-134.97	157.8	1,131.5	302.3	261.5	40.85	7.401	
6,900.0	6,748.3	6,894.7	6,783.5	27.3	24.2	-135.02	160.4	1,150.7	306.9	265.4	41.49	7.396	
7,000.0	6,845.7	6,994.6	6,881.5	27.8	24.6	-135.06	163.1	1,169.9	311.4	269.3	42.13	7.391	
7,100.0	6,943.1	7,087.0	6,972.2	28.2	24.9	-135.07	165.9	1,187.7	316.2	273.4	42.77	7.393	
7,200.0	7,040.6	7,157.7	7,040.9	28.6	25.2	-134.27	174.4	1,201.2	327.5	283.8	43.79	7.481	
7,300.0	7,138.0	7,225.2	7,105.2	29.1	25.5	-132.61	190.6	1,213.9	347.8	302.6	45.24	7.689	
7,341.8	7,178.7	7,250.0	7,128.3	29.3	25.6	-131.82	198.4	1,218.5	359.0	313.1	45.88	7.825	
7,350.0	7,186.7	7,250.0	7,128.3	29.3	25.6	-128.10	198.4	1,218.5	361.4	315.5	45.99	7.860	
7,400.0	7,235.4	7,288.8	7,163.7	29.5	25.8	-105.64	212.7	1,225.6	375.0	327.7	47.23	7.940	
7,450.0	7,283.6	7,320.1	7,191.4	29.7	25.9	-88.35	226.0	1,231.1	387.5	339.6	47.93	8.085	
7,500.0	7,331.0	7,350.0	7,217.2	29.9	26.1	-76.17	240.2	1,236.3	398.9	350.7	48.23	8.272	
7,550.0	7,377.4	7,382.1	7,244.1	30.1	26.3	-67.63	256.9	1,241.7	409.1	360.9	48.19	8.488	
7,600.0	7,422.2	7,412.9	7,269.0	30.3	26.4	-61.54	274.3	1,246.7	417.9	370.1	47.78	8.746	
7,650.0	7,465.2	7,450.0	7,297.7	30.5	26.6	-57.02	297.1	1,252.5	425.4	378.3	47.09	9.033	
7,700.0	7,506.0	7,474.2	7,315.6	30.7	26.7	-53.75	312.9	1,256.2	431.3	385.3	45.95	9.385	
7,750.0	7,544.4	7,500.0	7,334.0	30.9	26.9	-51.26	330.6	1,259.9	435.8	391.3	44.55	9.783	
7,800.0	7,580.0	7,535.1	7,357.7	31.1	27.1	-49.37	356.1	1,264.8	438.8	395.8	42.99	10.207	
7,850.0	7,612.6	7,565.6	7,377.0	31.3	27.3	-47.99	379.4	1,268.8	440.4	399.2	41.19	10.692	
7,900.0	7,641.9	7,600.0	7,397.2	31.5	27.5	-47.03	406.8	1,273.0	440.4	401.2	39.26	11.219	
7,950.0	7,667.7	7,626.5	7,411.7	31.7	27.7	-46.41	428.8	1,276.0	438.9	401.8	37.15	11.815	
8,000.0	7,689.8	7,650.0	7,423.7	32.0	27.8	-46.07	448.8	1,278.5	436.1	401.1	34.96	12.472	
8,050.0	7,708.0	7,687.5	7,441.2	32.2	28.1	-46.13	481.8	1,282.2	431.5	398.6	32.96	13.094	
8,100.0	7,722.3	7,718.1	7,453.9	32.4	28.3	-46.42	509.6	1,285.0	425.6	394.7	30.98	13.738	
8,150.0	7,732.4	7,750.0	7,465.4	32.7	28.6	-47.01	539.1	1,287.5	418.3	389.1	29.21	14.322	
8,200.0	7,738.3	7,779.7	7,474.8	33.0	28.8	-47.85	567.3	1,289.6	409.7	382.0	27.68	14.798	
8,244.9	7,740.0	7,800.0	7,480.4	33.2	29.0	-48.71	586.7	1,290.8	400.9	374.4	26.50	15.129	
8,300.0	7,740.0	7,850.0	7,491.1	33.5	29.3	-49.64	635.5	1,293.3	390.7	363.0	27.75	14.082	
8,400.0	7,740.0	7,900.0	7,497.7	34.1	29.8	-50.21	685.0	1,295.1	379.1	349.7	29.38	12.902	
8,500.0	7,740.0	7,984.3	7,500.0	34.8	30.5	-50.32	769.2	1,296.3	375.9	344.6	31.33	11.996	
8,600.0	7,740.0	8,084.3	7,500.0	35.6	31.4	-50.18	869.2	1,297.1	374.8	341.4	33.45	11.205	
8,700.0	7,740.0	8,184.3	7,500.0	36.5	32.4	-50.05	969.2	1,298.0	373.8	338.1	35.63	10.489	
8,800.0	7,740.0	8,284.3	7,500.0	37.4	33.4	-49.91	1,069.2	1,298.9	372.7	334.8	37.87	9.842	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3											Offset Site Error: 0.0 ft		
Survey Program: O-Geolink MWD											Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
8,900.0	7,740.0	8,384.3	7,500.0	38.3	34.5	-49.77	1,169.2	1,299.7	371.6	331.5	40.14	9.258	
9,000.0	7,740.0	8,484.3	7,500.0	39.4	35.7	-49.63	1,269.2	1,300.6	370.6	328.1	42.45	8.730	
9,100.0	7,740.0	8,584.3	7,500.0	40.4	36.9	-49.49	1,369.2	1,301.5	369.5	324.7	44.78	8.252	
9,200.0	7,740.0	8,684.3	7,500.0	41.6	38.1	-49.35	1,469.2	1,302.4	368.4	321.3	47.13	7.818	
9,300.0	7,740.0	8,784.2	7,500.0	42.7	39.4	-49.21	1,569.1	1,303.2	367.4	317.9	49.49	7.423	
9,400.0	7,740.0	8,884.2	7,500.0	43.9	40.7	-49.06	1,669.1	1,304.1	366.3	314.4	51.87	7.062	
9,500.0	7,740.0	8,984.2	7,500.0	45.2	42.1	-48.92	1,769.1	1,305.0	365.3	311.0	54.25	6.733	
9,600.0	7,740.0	9,084.2	7,500.0	46.4	43.5	-48.78	1,869.1	1,305.9	364.2	307.6	56.64	6.431	
9,700.0	7,740.0	9,184.2	7,500.0	47.7	44.9	-48.63	1,969.1	1,306.7	363.2	304.1	59.03	6.152	
9,800.0	7,740.0	9,284.2	7,500.0	49.1	46.3	-48.49	2,069.1	1,307.6	362.1	300.7	61.42	5.896	
9,900.0	7,740.0	9,384.2	7,500.0	50.4	47.8	-48.34	2,169.1	1,308.5	361.1	297.3	63.81	5.659	
10,000.0	7,740.0	9,484.2	7,500.0	51.8	49.2	-48.19	2,269.0	1,309.3	360.0	293.8	66.19	5.439	
10,100.0	7,740.0	9,582.7	7,500.0	53.2	50.7	-48.05	2,367.6	1,310.1	359.1	290.5	68.57	5.236	
10,151.5	7,740.0	9,631.9	7,500.0	53.9	51.4	-48.03	2,416.8	1,310.1	358.9	289.1	69.82	5.140	
10,200.0	7,740.0	9,678.3	7,500.0	54.6	52.1	-48.05	2,463.1	1,309.6	359.0	288.0	71.03	5.054	
10,300.0	7,740.0	9,773.8	7,500.0	56.1	53.6	-48.22	2,558.6	1,307.6	360.3	286.6	73.68	4.890	
10,400.0	7,740.0	9,869.2	7,500.0	57.6	55.0	-48.55	2,654.0	1,303.9	362.7	286.2	76.51	4.741	
10,500.0	7,740.0	9,964.6	7,500.0	59.0	56.4	-49.04	2,749.2	1,298.7	366.5	286.9	79.54	4.607	
10,600.0	7,740.0	10,059.7	7,500.0	60.5	57.8	-49.68	2,844.1	1,291.9	371.5	288.7	82.77	4.488	
10,700.0	7,740.0	10,154.6	7,500.0	62.0	59.3	-50.45	2,938.6	1,283.5	377.9	291.7	86.19	4.384	
10,800.0	7,740.0	10,251.7	7,500.0	63.5	60.7	-51.35	3,035.2	1,273.6	385.4	295.6	89.83	4.291	
10,900.0	7,740.0	10,351.2	7,500.0	65.1	62.2	-52.25	3,134.1	1,263.2	393.3	299.7	93.55	4.204	
11,000.0	7,740.0	10,450.7	7,500.0	66.6	63.8	-53.12	3,233.1	1,252.8	401.2	303.9	97.29	4.124	
11,100.0	7,740.0	10,550.2	7,500.0	68.2	65.3	-53.95	3,332.0	1,242.4	409.2	308.1	101.03	4.050	
11,200.0	7,740.0	10,649.7	7,500.0	69.7	66.9	-54.75	3,431.0	1,232.0	417.3	312.5	104.77	3.982	
11,300.0	7,740.0	10,749.2	7,500.0	71.3	68.4	-55.52	3,530.0	1,221.6	425.4	316.9	108.52	3.920	
11,400.0	7,740.0	10,848.7	7,500.0	72.9	70.0	-56.27	3,628.9	1,211.2	433.7	321.4	112.27	3.863	
11,500.0	7,740.0	10,948.2	7,500.0	74.5	71.6	-56.98	3,727.9	1,200.8	442.0	325.9	116.02	3.809	
11,600.0	7,740.0	11,047.7	7,500.0	76.1	73.2	-57.67	3,826.8	1,190.4	450.3	330.6	119.78	3.760	
11,700.0	7,740.0	11,147.2	7,500.0	77.7	74.8	-58.33	3,925.8	1,180.0	458.8	335.2	123.53	3.714	
11,800.0	7,740.0	11,246.7	7,500.0	79.3	76.4	-58.97	4,024.8	1,169.5	467.3	340.0	127.28	3.671	
11,900.0	7,740.0	11,346.2	7,500.0	80.9	78.0	-59.58	4,123.7	1,159.1	475.8	344.8	131.02	3.632	
12,000.0	7,740.0	11,445.7	7,500.0	82.5	79.6	-60.18	4,222.7	1,148.7	484.4	349.6	134.77	3.594	
12,100.0	7,740.0	11,545.2	7,500.0	84.2	81.2	-60.75	4,321.7	1,138.3	493.1	354.6	138.51	3.560	
12,200.0	7,740.0	11,644.7	7,500.0	85.8	82.8	-61.31	4,420.6	1,127.9	501.8	359.5	142.25	3.527	
12,300.0	7,740.0	11,744.3	7,500.0	87.4	84.5	-61.84	4,519.6	1,117.5	510.5	364.5	145.99	3.497	
12,400.0	7,740.0	11,847.4	7,500.0	89.1	86.2	-62.37	4,622.2	1,106.9	519.1	369.4	149.79	3.466	
12,500.0	7,740.0	11,955.9	7,500.0	90.7	88.0	-62.82	4,730.2	1,097.5	526.4	372.8	153.59	3.428	
12,600.0	7,740.0	12,064.6	7,500.0	92.4	89.8	-63.15	4,838.7	1,090.1	532.1	374.8	157.27	3.383	
12,700.0	7,740.0	12,173.6	7,500.0	94.0	91.6	-63.39	4,947.6	1,084.7	536.0	375.2	160.82	3.333	
12,800.0	7,740.0	12,282.7	7,500.0	95.7	93.4	-63.52	5,056.6	1,081.4	538.2	374.0	164.25	3.277	
12,900.0	7,740.0	12,391.9	7,500.0	97.3	95.3	-63.55	5,165.8	1,080.1	538.8	371.2	167.55	3.216	
13,000.0	7,740.0	12,501.1	7,500.0	99.0	97.2	-63.48	5,275.0	1,081.0	537.6	366.9	170.72	3.149	
13,100.0	7,740.0	12,610.2	7,500.0	100.7	99.0	-63.31	5,384.0	1,083.9	534.7	361.0	173.73	3.078	
13,200.0	7,740.0	12,719.1	7,500.0	102.3	100.9	-63.04	5,492.8	1,088.9	530.2	353.6	176.58	3.003	
13,300.0	7,740.0	12,826.0	7,500.0	104.0	102.8	-62.67	5,599.5	1,095.8	524.0	344.8	179.23	2.924	
13,400.0	7,740.0	12,925.7	7,500.0	105.7	104.5	-62.29	5,699.0	1,102.8	517.3	335.5	181.71	2.847	
13,500.0	7,740.0	13,025.4	7,500.0	107.3	106.2	-61.89	5,798.4	1,109.9	510.6	326.4	184.15	2.772	
13,600.0	7,740.0	13,125.1	7,500.0	109.0	107.9	-61.49	5,897.9	1,116.9	503.9	317.3	186.55	2.701	
13,700.0	7,740.0	13,224.8	7,500.0	110.7	109.7	-61.07	5,997.4	1,123.9	497.2	308.4	188.89	2.632	
13,800.0	7,740.0	13,324.6	7,500.0	112.4	111.4	-60.64	6,096.8	1,131.0	490.6	299.4	191.18	2.566	
13,900.0	7,740.0	13,424.3	7,500.0	114.1	113.1	-60.20	6,196.3	1,138.0	484.0	290.6	193.41	2.503	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2F-7H-E168 - Hz - Plan #3											Offset Site Error:		0.0 ft	
Survey Program: 0-Geolink MWD											Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
14,000.0	7,740.0	13,524.0	7,500.0	115.8	114.9	-59.75	6,295.8	1,145.0	477.5	281.9	195.58	2.441		
14,100.0	7,740.0	13,623.7	7,500.0	117.5	116.6	-59.29	6,395.2	1,152.1	470.9	273.2	197.70	2.382		
14,200.0	7,740.0	13,723.4	7,500.0	119.2	118.3	-58.81	6,494.7	1,159.1	464.4	264.7	199.74	2.325		
14,300.0	7,740.0	13,823.1	7,500.0	120.8	120.1	-58.32	6,594.2	1,166.1	458.0	256.2	201.72	2.270		
14,400.0	7,740.0	13,922.8	7,500.0	122.5	121.8	-57.82	6,693.6	1,173.2	451.5	247.9	203.62	2.217		
14,500.0	7,740.0	14,022.5	7,500.0	124.2	123.5	-57.30	6,793.1	1,180.2	445.1	239.7	205.44	2.167		
14,600.0	7,740.0	14,122.3	7,500.0	125.9	125.3	-56.76	6,892.5	1,187.2	438.8	231.6	207.18	2.118		
14,700.0	7,740.0	14,222.0	7,500.0	127.6	127.0	-56.21	6,992.0	1,194.3	432.4	223.6	208.84	2.071		
14,800.0	7,740.0	14,321.7	7,500.0	129.3	128.7	-55.65	7,091.5	1,201.3	426.2	215.8	210.40	2.025		
14,840.8	7,740.0	14,335.9	7,500.0	130.0	129.0	-55.57	7,105.6	1,202.3	424.4	213.4	210.99	2.012		
14,844.9	7,740.0	14,335.9	7,500.0	130.1	129.0	-55.57	7,105.6	1,202.3	424.4	213.4	211.05	2.011 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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	10.1	10.1					
100.0	100.0	100.0	100.0	0.2	0.2	89.98	0.0	10.1	10.1	9.8	0.30	33.178		
200.0	200.0	200.0	200.0	0.3	0.3	89.98	0.0	10.1	10.1	9.4	0.65	15.436	CC, ES	
250.0	250.0	249.9	249.9	0.4	0.4	90.01	0.0	10.3	10.3	9.5	0.83	12.438		
300.0	300.0	299.8	299.8	0.5	0.5	-10.08	0.0	10.9	10.7	9.7	1.00	10.716		
400.0	400.0	399.6	399.6	0.7	0.7	-11.16	-0.1	13.6	11.6	10.3	1.35	8.612		
500.0	499.9	499.4	499.3	0.9	0.9	-13.21	-0.2	17.9	12.6	10.9	1.70	7.392		
600.0	599.8	599.2	598.8	1.1	1.1	-16.01	-0.4	24.0	13.6	11.5	2.05	6.612		
700.0	699.5	698.9	698.3	1.3	1.3	-19.36	-0.7	31.8	14.6	12.2	2.40	6.085		
800.0	799.2	798.6	797.6	1.5	1.5	-23.11	-1.0	41.3	15.8	13.1	2.77	5.717		
900.0	898.6	898.4	896.6	1.7	1.8	-27.08	-1.3	52.6	17.2	14.0	3.15	5.451		
1,000.0	997.9	998.0	995.5	2.0	2.0	-31.14	-1.7	65.5	18.7	15.1	3.56	5.250		
1,100.0	1,096.9	1,097.7	1,094.0	2.3	2.3	-35.18	-2.2	80.2	20.4	16.4	4.01	5.089		
1,200.0	1,195.7	1,197.4	1,192.3	2.6	2.7	-39.10	-2.7	96.6	22.4	17.9	4.52	4.952		
1,300.0	1,294.1	1,297.0	1,290.3	2.9	3.0	-42.83	-3.3	114.7	24.6	19.5	5.08	4.831		
1,400.0	1,392.3	1,396.6	1,387.9	3.3	3.4	-46.32	-3.9	134.5	27.0	21.3	5.72	4.719		
1,500.0	1,490.1	1,496.2	1,485.1	3.7	3.8	-49.57	-4.6	156.0	29.7	23.2	6.43	4.617		
1,600.0	1,587.5	1,595.7	1,581.9	4.1	4.2	-52.56	-5.3	179.1	32.6	25.4	7.21	4.524		
1,700.0	1,684.6	1,695.2	1,678.3	4.5	4.7	-55.29	-6.1	204.0	35.8	27.7	8.07	4.439		
1,750.0	1,732.9	1,745.0	1,726.3	4.8	4.9	-56.57	-6.5	217.0	37.5	29.0	8.53	4.400		
1,800.0	1,781.2	1,794.7	1,774.2	5.0	5.2	-55.49	-6.9	230.5	39.2	30.3	8.96	4.376		
1,900.0	1,877.8	1,894.2	1,869.6	5.5	5.7	-50.75	-7.8	258.6	42.4	32.8	9.68	4.383		
1,981.2	1,956.2	1,974.9	1,946.6	5.9	6.2	-44.80	-8.6	282.7	45.0	34.9	10.09	4.456		
2,000.0	1,974.4	1,993.6	1,964.4	6.0	6.3	-43.89	-8.7	288.4	45.6	35.4	10.16	4.490		
2,100.0	2,071.3	2,093.2	2,059.1	6.4	6.9	-38.28	-9.7	319.5	50.4	40.1	10.35	4.873		
2,181.5	2,150.7	2,174.4	2,136.2	6.7	7.3	-33.69	-10.5	344.9	55.8	45.4	10.39	5.370		
2,200.0	2,168.6	2,192.8	2,153.7	6.8	7.4	-32.69	-10.7	350.6	57.2	46.8	10.39	5.501		
2,300.0	2,266.1	2,292.4	2,248.3	7.3	8.0	-28.04	-11.7	381.7	64.8	54.4	10.42	6.220		
2,400.0	2,363.5	2,392.0	2,342.9	7.7	8.6	-24.39	-12.6	412.9	72.9	62.4	10.50	6.937		
2,500.0	2,461.0	2,491.6	2,437.5	8.1	9.2	-21.48	-13.6	444.0	81.1	70.5	10.62	7.636		
2,600.0	2,558.4	2,591.2	2,532.0	8.6	9.8	-19.10	-14.6	475.1	89.5	78.7	10.78	8.308		
2,700.0	2,655.8	2,690.7	2,626.6	9.0	10.3	-17.14	-15.6	506.3	98.1	87.1	10.96	8.948		
2,800.0	2,753.3	2,790.3	2,721.2	9.4	10.9	-15.49	-16.6	537.4	106.7	95.5	11.17	9.556		
2,900.0	2,850.7	2,889.9	2,815.8	9.9	11.5	-14.09	-17.5	568.5	115.4	104.0	11.39	10.131		
3,000.0	2,948.2	2,989.5	2,910.4	10.3	12.1	-12.89	-18.5	599.7	124.2	112.6	11.64	10.673		
3,100.0	3,045.6	3,089.1	3,005.0	10.7	12.7	-11.84	-19.5	630.8	133.0	121.1	11.89	11.185		
3,200.0	3,143.0	3,188.7	3,099.6	11.2	13.3	-10.93	-20.5	661.9	141.9	129.7	12.16	11.668		
3,300.0	3,240.5	3,288.2	3,194.1	11.6	13.9	-10.12	-21.4	693.1	150.8	138.3	12.44	12.123		
3,400.0	3,337.9	3,387.8	3,288.7	12.0	14.5	-9.40	-22.4	724.2	159.7	147.0	12.72	12.552		
3,500.0	3,435.3	3,487.4	3,383.3	12.5	15.0	-8.76	-23.4	755.3	168.6	155.6	13.01	12.958		
3,600.0	3,532.8	3,587.0	3,477.9	12.9	15.6	-8.19	-24.4	786.5	177.6	164.3	13.31	13.342		
3,700.0	3,630.2	3,686.6	3,572.5	13.3	16.2	-7.67	-25.3	817.6	186.5	172.9	13.61	13.705		
3,800.0	3,727.7	3,786.1	3,667.1	13.8	16.8	-7.19	-26.3	848.7	195.5	181.6	13.92	14.048		
3,900.0	3,825.1	3,885.7	3,761.7	14.2	17.4	-6.76	-27.3	879.9	204.5	190.3	14.23	14.374		
4,000.0	3,922.5	3,985.3	3,856.2	14.6	18.0	-6.37	-28.3	911.0	213.5	199.0	14.54	14.684		
4,100.0	4,020.0	4,084.9	3,950.8	15.1	18.6	-6.00	-29.3	942.1	222.6	207.7	14.86	14.977		
4,200.0	4,117.4	4,184.5	4,045.4	15.5	19.2	-5.67	-30.2	973.3	231.6	216.4	15.18	15.257		
4,300.0	4,214.9	4,284.1	4,140.0	16.0	19.8	-5.36	-31.2	1,004.4	240.6	225.1	15.50	15.523		
4,400.0	4,312.3	4,383.6	4,234.6	16.4	20.4	-5.07	-32.2	1,035.5	249.7	233.8	15.83	15.776		
4,500.0	4,409.7	4,483.2	4,329.2	16.8	21.0	-4.80	-33.2	1,066.7	258.7	242.6	16.15	16.018		
4,600.0	4,507.2	4,582.8	4,423.8	17.3	21.6	-4.55	-34.1	1,097.8	267.8	251.3	16.48	16.249		
4,700.0	4,604.6	4,682.4	4,518.3	17.7	22.2	-4.32	-35.1	1,128.9	276.8	260.0	16.81	16.469		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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
4,800.0	4,702.0	4,782.0	4,612.9	18.1	22.8	-4.10	-36.1	1,160.1	285.9	268.8	17.14	16.680	
4,900.0	4,799.5	4,881.6	4,707.5	18.6	23.3	-3.90	-37.1	1,191.2	295.0	277.5	17.47	16.882	
5,000.0	4,896.9	4,981.1	4,802.1	19.0	23.9	-3.71	-38.1	1,222.3	304.0	286.2	17.81	17.075	
5,100.0	4,994.4	5,080.7	4,896.7	19.4	24.5	-3.53	-39.0	1,253.5	313.1	295.0	18.14	17.261	
5,200.0	5,091.8	5,180.3	4,991.3	19.9	25.1	-3.35	-40.0	1,284.6	322.2	303.7	18.47	17.438	
5,300.0	5,189.2	5,279.9	5,085.9	20.3	25.7	-3.19	-41.0	1,315.7	331.2	312.4	18.81	17.609	
5,400.0	5,286.7	5,379.5	5,180.4	20.8	26.3	-3.04	-42.0	1,346.9	340.3	321.2	19.15	17.774	
5,500.0	5,384.1	5,479.1	5,275.0	21.2	26.9	-2.89	-42.9	1,378.0	349.4	329.9	19.49	17.931	
5,600.0	5,481.6	5,578.6	5,369.6	21.6	27.5	-2.76	-43.9	1,409.1	358.5	338.7	19.82	18.083	
5,700.0	5,579.0	5,678.2	5,464.2	22.1	28.1	-2.63	-44.9	1,440.3	367.6	347.4	20.16	18.230	
5,800.0	5,676.4	5,777.8	5,558.8	22.5	28.7	-2.50	-45.9	1,471.4	376.7	356.2	20.50	18.371	
5,900.0	5,773.9	5,877.4	5,653.4	22.9	29.3	-2.38	-46.8	1,502.5	385.8	364.9	20.84	18.507	
6,000.0	5,871.3	5,977.0	5,748.0	23.4	29.9	-2.27	-47.8	1,533.7	394.9	373.7	21.19	18.638	
6,100.0	5,968.7	6,076.6	5,842.5	23.8	30.5	-2.16	-48.8	1,564.8	403.9	382.4	21.53	18.765	
6,200.0	6,066.2	6,176.1	5,937.1	24.3	31.1	-2.06	-49.8	1,595.9	413.0	391.2	21.87	18.887	
6,300.0	6,163.6	6,275.7	6,031.7	24.7	31.7	-1.96	-50.8	1,627.1	422.1	399.9	22.21	19.005	
6,400.0	6,261.1	6,375.3	6,126.3	25.1	32.3	-1.86	-51.7	1,658.2	431.2	408.7	22.55	19.120	
6,500.0	6,358.5	6,474.9	6,220.9	25.6	32.9	-1.77	-52.7	1,689.3	440.3	417.4	22.90	19.230	
6,600.0	6,455.9	6,574.5	6,315.5	26.0	33.4	-1.69	-53.7	1,720.5	449.4	426.2	23.24	19.338	
6,700.0	6,553.4	6,674.1	6,410.1	26.5	34.0	-1.60	-54.7	1,751.6	458.5	434.9	23.59	19.441	
6,800.0	6,650.8	6,773.6	6,504.7	26.9	34.6	-1.52	-55.6	1,782.7	467.6	443.7	23.93	19.542	
6,900.0	6,748.3	6,873.2	6,599.2	27.3	35.2	-1.44	-56.6	1,813.9	476.7	452.5	24.27	19.639	
7,000.0	6,845.7	6,972.8	6,693.8	27.8	35.8	-1.37	-57.6	1,845.0	485.8	461.2	24.62	19.734	
7,100.0	6,943.1	7,072.4	6,788.4	28.2	36.4	-1.30	-58.6	1,876.1	494.9	470.0	24.96	19.826	
7,200.0	7,040.6	7,172.0	6,883.0	28.6	37.0	-1.23	-59.6	1,907.3	504.0	478.7	25.31	19.915	
7,300.0	7,138.0	7,275.4	6,981.3	29.1	37.6	-1.40	-58.4	1,939.4	513.0	487.3	25.68	19.976	
7,341.8	7,178.7	7,320.0	7,023.5	29.3	37.9	-1.99	-53.2	1,952.8	516.4	490.5	25.89	19.948	
7,350.0	7,186.7	7,328.6	7,031.6	29.3	37.9	1.35	-51.8	1,955.3	517.0	491.1	25.94	19.931	
7,400.0	7,235.4	7,380.9	7,080.5	29.5	38.2	20.43	-40.7	1,970.3	520.7	494.5	26.27	19.821	
7,450.0	7,283.6	7,432.5	7,127.6	29.7	38.4	34.91	-25.2	1,984.2	524.2	497.6	26.60	19.705	
7,500.0	7,331.0	7,483.4	7,172.7	29.9	38.7	44.58	-5.7	1,997.2	527.3	500.4	26.92	19.591	
7,550.0	7,377.4	7,533.5	7,215.5	30.1	38.9	50.84	17.6	2,009.0	530.1	502.9	27.16	19.518	
7,600.0	7,422.2	7,583.0	7,255.8	30.3	39.1	54.93	44.2	2,019.6	532.5	505.2	27.33	19.482	
7,650.0	7,465.2	7,631.8	7,293.4	30.5	39.3	57.63	73.9	2,029.1	534.5	507.1	27.44	19.484	
7,700.0	7,506.0	7,680.0	7,328.1	30.7	39.5	59.44	106.3	2,037.4	536.2	508.7	27.47	19.518	
7,750.0	7,544.4	7,727.6	7,359.8	30.9	39.7	60.65	141.1	2,044.4	537.3	509.9	27.45	19.573	
7,800.0	7,580.0	7,774.6	7,388.3	31.1	39.8	61.45	178.0	2,050.2	538.1	510.7	27.42	19.626	
7,850.0	7,612.6	7,821.1	7,413.7	31.3	40.0	61.98	216.7	2,054.8	538.4	511.0	27.40	19.648	
7,900.0	7,641.9	7,867.1	7,435.8	31.5	40.1	62.32	256.8	2,058.2	538.2	510.8	27.45	19.605	
7,950.0	7,667.7	7,912.6	7,454.6	31.7	40.3	62.52	298.2	2,060.4	537.6	509.9	27.62	19.460	
8,000.0	7,689.8	7,957.7	7,470.2	32.0	40.4	62.63	340.5	2,061.4	536.4	508.5	27.96	19.183	
8,050.0	7,708.0	8,000.0	7,481.9	32.2	40.6	62.71	381.1	2,061.4	534.8	506.3	28.51	18.761	
8,100.0	7,722.3	8,046.7	7,491.5	32.4	40.7	62.69	426.8	2,060.1	532.7	503.4	29.31	18.174	
8,150.0	7,732.4	8,090.7	7,497.3	32.7	40.8	62.67	470.3	2,057.8	530.2	499.8	30.37	17.459	
8,200.0	7,738.3	8,134.3	7,499.8	33.0	40.9	62.64	513.8	2,054.5	527.1	495.5	31.66	16.648	
8,244.9	7,740.0	8,177.0	7,500.0	33.2	41.1	62.64	556.2	2,050.5	523.9	490.9	33.06	15.848	
8,300.0	7,740.0	8,231.9	7,500.0	33.5	41.3	62.39	610.9	2,045.2	519.5	485.4	34.10	15.234	
8,400.0	7,740.0	8,331.5	7,500.0	34.1	41.7	61.92	710.0	2,035.7	511.5	475.4	36.09	14.173	
8,500.0	7,740.0	8,431.1	7,500.0	34.8	42.1	61.43	809.1	2,026.1	503.5	465.3	38.19	13.185	
8,600.0	7,740.0	8,530.7	7,500.0	35.6	42.7	60.93	908.3	2,016.6	495.5	455.2	40.37	12.274	
8,700.0	7,740.0	8,630.2	7,500.0	36.5	43.3	60.41	1,007.4	2,007.0	487.6	445.0	42.62	11.440	
8,800.0	7,740.0	8,729.8	7,500.0	37.4	43.9	59.88	1,106.5	1,997.5	479.8	434.8	44.92	10.680	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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)			
8,900.0	7,740.0	8,829.4	7,500.0	38.3	44.7	59.33	1,205.7	1,987.9	471.9	424.7	47.25	9.989	
9,000.0	7,740.0	8,929.0	7,500.0	39.4	45.4	58.76	1,304.8	1,978.4	464.1	414.6	49.59	9.360	
9,100.0	7,740.0	9,028.6	7,500.0	40.4	46.3	58.17	1,403.9	1,968.8	456.4	404.5	51.93	8.789	
9,200.0	7,740.0	9,128.2	7,500.0	41.6	47.1	57.56	1,503.1	1,959.3	448.7	394.5	54.27	8.268	
9,300.0	7,740.0	9,227.8	7,500.0	42.7	48.1	56.93	1,602.2	1,949.7	441.1	384.5	56.59	7.794	
9,400.0	7,740.0	9,327.4	7,500.0	43.9	49.0	56.28	1,701.3	1,940.2	433.5	374.6	58.89	7.362	
9,500.0	7,740.0	9,427.0	7,500.0	45.2	50.1	55.60	1,800.4	1,930.7	426.0	364.9	61.15	6.967	
9,600.0	7,740.0	9,526.5	7,500.0	46.4	51.1	54.90	1,899.6	1,921.1	418.5	355.2	63.36	6.605	
9,700.0	7,740.0	9,626.1	7,500.0	47.7	52.2	54.17	1,998.7	1,911.6	411.2	345.6	65.53	6.274	
9,800.0	7,740.0	9,725.7	7,500.0	49.1	53.3	53.42	2,097.8	1,902.0	403.8	336.2	67.64	5.970	
9,900.0	7,740.0	9,825.3	7,500.0	50.4	54.5	52.64	2,197.0	1,892.5	396.6	326.9	69.68	5.692	
10,000.0	7,740.0	9,924.9	7,500.0	51.8	55.7	51.84	2,296.1	1,882.9	389.4	317.8	71.64	5.435	
10,100.0	7,740.0	10,024.5	7,500.0	53.2	56.9	51.00	2,395.2	1,873.4	382.3	308.8	73.53	5.200	
10,200.0	7,740.0	10,124.1	7,500.0	54.6	58.2	50.13	2,494.4	1,863.8	375.3	300.0	75.32	4.983	
10,300.0	7,740.0	10,223.7	7,500.0	56.1	59.5	49.23	2,593.5	1,854.3	368.4	291.4	77.01	4.784	
10,400.0	7,740.0	10,323.3	7,500.0	57.6	60.8	48.29	2,692.6	1,844.7	361.5	283.0	78.58	4.601	
10,500.0	7,740.0	10,422.8	7,500.0	59.0	62.1	47.32	2,791.7	1,835.2	354.8	274.8	80.04	4.433	
10,600.0	7,740.0	10,522.4	7,500.0	60.5	63.5	46.31	2,890.9	1,825.7	348.2	266.8	81.37	4.279	
10,700.0	7,740.0	10,622.0	7,500.0	62.0	64.8	45.26	2,990.0	1,816.1	341.7	259.1	82.55	4.139	
10,800.0	7,740.0	10,720.9	7,500.0	63.5	66.2	44.19	3,088.4	1,806.7	335.3	251.7	83.59	4.011	
10,900.0	7,740.0	10,816.7	7,500.0	65.1	67.6	43.24	3,183.9	1,798.6	329.8	245.2	84.65	3.896	
11,000.0	7,740.0	10,912.8	7,500.0	66.6	69.0	42.47	3,279.7	1,792.1	325.6	239.7	85.87	3.791	
11,100.0	7,740.0	11,009.0	7,500.0	68.2	70.4	41.89	3,375.9	1,787.2	322.5	235.2	87.30	3.694	
11,200.0	7,740.0	11,105.4	7,500.0	69.7	71.8	41.52	3,472.2	1,783.9	320.6	231.6	88.98	3.603	
11,300.0	7,740.0	11,201.8	7,500.0	71.3	73.3	41.36	3,568.6	1,782.2	319.8	228.8	90.97	3.515	
11,322.1	7,740.0	11,223.1	7,500.0	71.7	73.6	41.36	3,589.9	1,782.0	319.7	228.3	91.45	3.496	
11,400.0	7,740.0	11,299.9	7,500.0	72.9	74.8	41.40	3,666.7	1,782.0	320.0	226.7	93.26	3.431	
11,500.0	7,740.0	11,399.9	7,500.0	74.5	76.3	41.47	3,766.7	1,782.0	320.3	224.7	95.64	3.349	
11,600.0	7,740.0	11,499.9	7,500.0	76.1	77.9	41.54	3,866.7	1,782.0	320.6	222.6	98.03	3.271	
11,700.0	7,740.0	11,599.9	7,500.0	77.7	79.5	41.61	3,966.7	1,782.0	321.0	220.6	100.43	3.196	
11,800.0	7,740.0	11,699.9	7,500.0	79.3	81.0	41.68	4,066.7	1,782.0	321.3	218.5	102.83	3.125	
11,900.0	7,740.0	11,799.9	7,500.0	80.9	82.6	41.75	4,166.7	1,782.0	321.7	216.4	105.25	3.057	
12,000.0	7,740.0	11,899.9	7,500.0	82.5	84.2	41.82	4,266.7	1,782.0	322.0	214.4	107.67	2.991	
12,100.0	7,740.0	11,999.9	7,500.0	84.2	85.8	41.89	4,366.7	1,782.0	322.4	212.3	110.10	2.928	
12,200.0	7,740.0	12,099.9	7,500.0	85.8	87.4	41.96	4,466.7	1,782.0	322.7	210.2	112.54	2.868	
12,300.0	7,740.0	12,199.9	7,500.0	87.4	89.0	42.03	4,566.7	1,782.0	323.1	208.1	114.99	2.810	
12,400.0	7,740.0	12,299.9	7,500.0	89.1	90.6	42.10	4,666.7	1,782.0	323.4	206.0	117.44	2.754	
12,500.0	7,740.0	12,399.9	7,500.0	90.7	92.2	42.16	4,766.7	1,782.0	323.8	203.9	119.90	2.700	
12,600.0	7,740.0	12,499.9	7,500.0	92.4	93.8	42.23	4,866.7	1,782.0	324.1	201.8	122.37	2.649	
12,700.0	7,740.0	12,599.9	7,500.0	94.0	95.5	42.30	4,966.7	1,782.0	324.5	199.6	124.85	2.599	
12,800.0	7,740.0	12,699.9	7,500.0	95.7	97.1	42.37	5,066.7	1,782.0	324.9	197.5	127.34	2.551	
12,900.0	7,740.0	12,799.9	7,500.0	97.3	98.7	42.44	5,166.7	1,782.0	325.2	195.4	129.83	2.505	
13,000.0	7,740.0	12,899.9	7,500.0	99.0	100.4	42.51	5,266.7	1,782.0	325.6	193.2	132.33	2.460	
13,100.0	7,740.0	12,999.9	7,500.0	100.7	102.0	42.57	5,366.7	1,782.0	325.9	191.1	134.83	2.417	
13,200.0	7,740.0	13,099.9	7,500.0	102.3	103.7	42.64	5,466.7	1,782.0	326.3	188.9	137.35	2.376	
13,300.0	7,740.0	13,199.9	7,500.0	104.0	105.3	42.71	5,566.7	1,782.0	326.6	186.8	139.87	2.335	
13,400.0	7,740.0	13,299.9	7,500.0	105.7	107.0	42.78	5,666.7	1,782.0	327.0	184.6	142.39	2.296	
13,500.0	7,740.0	13,399.9	7,500.0	107.3	108.6	42.84	5,766.7	1,782.0	327.3	182.4	144.92	2.259	
13,600.0	7,740.0	13,499.9	7,500.0	109.0	110.3	42.91	5,866.7	1,782.0	327.7	180.2	147.46	2.222	
13,700.0	7,740.0	13,599.9	7,500.0	110.7	111.9	42.98	5,966.7	1,782.0	328.0	178.0	150.01	2.187	
13,800.0	7,740.0	13,699.9	7,500.0	112.4	113.6	43.05	6,066.6	1,782.0	328.4	175.8	152.56	2.153	
13,900.0	7,740.0	13,798.0	7,500.0	114.1	115.2	43.13	6,164.7	1,782.1	328.9	173.7	155.16	2.120	

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Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Becky 2H-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					Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis			
14,000.0	7,740.0	13,893.8	7,500.0	115.8	116.9	43.41	6,260.5	1,783.8	330.5	172.2	158.24	2.088		
14,100.0	7,740.0	13,989.5	7,500.0	117.5	118.5	43.91	6,356.2	1,787.3	333.3	171.4	161.92	2.059		
14,200.0	7,740.0	14,085.0	7,500.0	119.2	120.1	44.60	6,451.6	1,792.5	337.5	171.3	166.18	2.031		
14,300.0	7,740.0	14,180.3	7,500.0	120.8	121.8	45.49	6,546.6	1,799.4	343.0	172.0	170.99	2.006		
14,400.0	7,740.0	14,275.3	7,500.0	122.5	123.4	46.54	6,641.2	1,808.0	349.9	173.6	176.27	1.985		
14,500.0	7,740.0	14,370.0	7,500.0	124.2	125.0	47.73	6,735.3	1,818.3	358.3	176.3	181.96	1.969		
14,600.0	7,740.0	14,464.2	7,500.0	125.9	126.7	49.04	6,828.8	1,830.3	368.2	180.2	187.99	1.959		
14,700.0	7,740.0	14,557.9	7,500.0	127.6	128.3	50.44	6,921.5	1,843.8	379.7	185.4	194.25	1.955 SF		
14,800.0	7,740.0	14,651.1	7,500.0	129.3	130.0	51.90	7,013.5	1,858.9	392.8	192.1	200.67	1.957		
14,844.9	7,740.0	14,693.3	7,500.0	130.1	130.7	52.58	7,055.0	1,866.3	399.2	195.6	203.61	1.961		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.65	0.7	-119.8	119.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.65	0.7	-119.8	119.8	119.5	0.30	394.454		
200.0	200.0	200.0	200.0	0.3	0.3	-89.65	0.7	-119.8	119.8	119.1	0.65	183.516		
250.0	250.0	250.0	250.0	0.4	0.4	-89.65	0.7	-119.8	119.8	119.0	0.83	144.800 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	170.37	0.7	-119.8	120.0	119.0	1.00	119.791		
400.0	400.0	398.6	398.6	0.7	0.7	170.80	1.4	-120.3	122.3	120.9	1.35	90.675		
500.0	499.9	497.0	497.0	0.9	0.8	171.91	3.3	-122.0	127.4	125.7	1.70	75.112		
600.0	599.8	595.1	595.0	1.1	1.0	173.53	6.6	-124.7	135.5	133.5	2.05	66.220		
700.0	699.5	692.7	692.4	1.3	1.2	175.49	11.0	-128.4	146.7	144.3	2.40	61.134		
800.0	799.2	791.4	790.9	1.5	1.4	177.47	16.3	-132.9	160.4	157.7	2.75	58.255		
900.0	898.6	890.1	889.3	1.7	1.6	179.15	21.6	-137.3	176.0	172.9	3.11	56.664		
1,000.0	997.9	988.5	987.4	2.0	1.8	-179.45	26.8	-141.7	193.5	190.1	3.46	55.961		
1,100.0	1,096.9	1,086.5	1,085.2	2.3	2.0	-178.29	32.1	-146.1	212.8	209.0	3.81	55.890		
1,200.0	1,195.7	1,184.2	1,182.7	2.6	2.2	-177.34	37.3	-150.5	233.8	229.7	4.15	56.283		
1,300.0	1,294.1	1,283.5	1,281.8	2.9	2.4	-176.43	43.0	-154.5	256.3	251.8	4.51	56.838		
1,400.0	1,392.3	1,383.2	1,381.2	3.3	2.7	-175.38	49.9	-157.3	279.6	274.8	4.87	57.405		
1,500.0	1,490.1	1,481.9	1,479.5	3.7	2.9	-174.26	57.9	-158.8	303.9	298.7	5.24	58.033		
1,600.0	1,587.5	1,578.3	1,575.6	4.1	3.1	-173.29	65.9	-160.1	329.7	324.1	5.60	58.877		
1,700.0	1,684.6	1,674.4	1,671.3	4.5	3.3	-172.48	73.9	-161.3	357.3	351.3	5.96	59.900		
1,750.0	1,732.9	1,722.2	1,719.0	4.8	3.4	-172.14	77.9	-161.9	371.7	365.5	6.15	60.468		
1,800.0	1,781.2	1,770.0	1,766.6	5.0	3.5	-169.86	81.9	-162.5	386.3	379.9	6.34	60.912		
1,900.0	1,877.8	1,865.7	1,862.0	5.5	3.7	-165.53	89.9	-163.8	415.2	408.5	6.74	61.601		
1,981.2	1,956.2	1,943.5	1,939.5	5.9	3.9	-162.23	96.4	-164.8	438.4	431.3	7.07	62.001		
2,000.0	1,974.4	1,961.5	1,957.5	6.0	3.9	-162.25	97.9	-165.0	443.7	436.6	7.15	62.065		
2,100.0	2,071.3	2,057.7	2,053.3	6.4	4.1	-162.34	105.9	-166.3	471.0	463.5	7.57	62.261		
2,181.5	2,150.7	2,136.5	2,131.8	6.7	4.3	-162.36	112.5	-167.3	492.1	484.2	7.91	62.249		
2,200.0	2,168.6	2,154.4	2,149.6	6.8	4.3	-162.34	114.0	-167.5	496.8	488.8	7.98	62.249		
2,300.0	2,266.1	2,251.1	2,246.0	7.3	4.6	-162.27	122.0	-168.7	522.0	513.6	8.39	62.240		
2,400.0	2,363.5	2,347.9	2,342.4	7.7	4.8	-162.20	130.1	-170.0	547.2	538.4	8.80	62.220		
2,500.0	2,461.0	2,444.7	2,438.9	8.1	5.0	-162.13	138.2	-171.2	572.4	563.2	9.20	62.192		
2,600.0	2,558.4	2,541.4	2,535.3	8.6	5.2	-162.08	146.2	-172.5	597.7	588.1	9.62	62.158		
2,700.0	2,655.8	2,638.2	2,631.7	9.0	5.4	-162.02	154.3	-173.7	622.9	612.9	10.03	62.119		
2,800.0	2,753.3	2,735.0	2,728.1	9.4	5.6	-161.97	162.4	-175.0	648.1	637.7	10.44	62.078		
2,900.0	2,850.7	2,831.7	2,824.6	9.9	5.9	-161.93	170.4	-176.2	673.3	662.5	10.85	62.035		
3,000.0	2,948.2	2,928.5	2,921.0	10.3	6.1	-161.89	178.5	-177.5	698.5	687.3	11.27	61.990		
3,100.0	3,045.6	3,025.3	3,017.4	10.7	6.3	-161.85	186.6	-178.7	723.8	712.1	11.68	61.945		
3,200.0	3,143.0	3,122.0	3,113.8	11.2	6.5	-161.81	194.6	-180.0	749.0	736.9	12.10	61.900		
3,300.0	3,240.5	3,218.8	3,210.2	11.6	6.7	-161.78	202.7	-181.2	774.2	761.7	12.52	61.855		
3,400.0	3,337.9	3,315.6	3,306.7	12.0	7.0	-161.74	210.8	-182.5	799.4	786.5	12.93	61.810		
3,500.0	3,435.3	3,412.3	3,403.1	12.5	7.2	-161.71	218.8	-183.7	824.7	811.3	13.35	61.766		
3,600.0	3,532.8	3,509.1	3,499.5	12.9	7.4	-161.69	226.9	-185.0	849.9	836.1	13.77	61.723		
3,700.0	3,630.2	3,605.9	3,595.9	13.3	7.6	-161.66	235.0	-186.2	875.1	860.9	14.19	61.680		
3,800.0	3,727.7	3,702.6	3,692.3	13.8	7.8	-161.63	243.0	-187.5	900.3	885.7	14.61	61.639		
3,900.0	3,825.1	3,799.4	3,788.8	14.2	8.1	-161.61	251.1	-188.7	925.5	910.5	15.03	61.598		
4,000.0	3,922.5	3,896.2	3,885.2	14.6	8.3	-161.59	259.2	-190.0	950.8	935.3	15.44	61.558		
4,100.0	4,020.0	3,992.9	3,981.6	15.1	8.5	-161.57	267.2	-191.2	976.0	960.1	15.86	61.520		
4,200.0	4,117.4	4,089.7	4,078.0	15.5	8.7	-161.55	275.3	-192.5	1,001.2	984.9	16.28	61.482		
4,300.0	4,214.9	4,186.5	4,174.4	16.0	8.9	-161.53	283.4	-193.7	1,026.4	1,009.7	16.70	61.445		
4,400.0	4,312.3	4,283.2	4,270.9	16.4	9.2	-161.51	291.4	-195.0	1,051.7	1,034.5	17.13	61.410		
4,500.0	4,409.7	4,380.0	4,367.3	16.8	9.4	-161.49	299.5	-196.2	1,076.9	1,059.3	17.55	61.375		
4,600.0	4,507.2	4,476.8	4,463.7	17.3	9.6	-161.47	307.6	-197.5	1,102.1	1,084.1	17.97	61.341		
4,700.0	4,604.6	4,573.5	4,560.1	17.7	9.8	-161.46	315.6	-198.7	1,127.3	1,108.9	18.39	61.308		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2B-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,702.0	4,670.3	4,656.6	18.1	10.0	-161.44	323.7	-200.0	1,152.5	1,133.7	18.81	61.276	
4,900.0	4,799.5	4,767.1	4,753.0	18.6	10.3	-161.43	331.8	-201.2	1,177.8	1,158.5	19.23	61.245	
5,000.0	4,896.9	4,863.8	4,849.4	19.0	10.5	-161.41	339.9	-202.5	1,203.0	1,183.3	19.65	61.215	
5,100.0	4,994.4	4,960.6	4,945.8	19.4	10.7	-161.40	347.9	-203.7	1,228.2	1,208.1	20.07	61.186	
5,200.0	5,091.8	5,057.4	5,042.2	19.9	10.9	-161.39	356.0	-205.0	1,253.4	1,232.9	20.50	61.158	
5,300.0	5,189.2	5,154.1	5,138.7	20.3	11.1	-161.38	364.1	-206.2	1,278.7	1,257.7	20.92	61.130	
5,400.0	5,286.7	5,250.9	5,235.1	20.8	11.4	-161.36	372.1	-207.5	1,303.9	1,282.5	21.34	61.103	
5,500.0	5,384.1	5,347.7	5,331.5	21.2	11.6	-161.35	380.2	-208.7	1,329.1	1,307.3	21.76	61.077	
5,600.0	5,481.6	5,444.4	5,427.9	21.6	11.8	-161.34	388.3	-210.0	1,354.3	1,332.1	22.18	61.051	
5,700.0	5,579.0	5,541.2	5,524.3	22.1	12.0	-161.33	396.3	-211.2	1,379.6	1,357.0	22.61	61.027	
5,800.0	5,676.4	5,637.9	5,620.8	22.5	12.2	-161.32	404.4	-212.5	1,404.8	1,381.8	23.03	61.003	
5,900.0	5,773.9	5,734.7	5,717.2	22.9	12.5	-161.31	412.5	-213.7	1,430.0	1,406.6	23.45	60.979	
6,000.0	5,871.3	5,831.5	5,813.6	23.4	12.7	-161.30	420.5	-214.9	1,455.2	1,431.4	23.87	60.956	
6,100.0	5,968.7	5,928.2	5,910.0	23.8	12.9	-161.29	428.6	-216.2	1,480.5	1,456.2	24.30	60.934	
6,200.0	6,066.2	6,025.0	6,006.5	24.3	13.1	-161.28	436.7	-217.4	1,505.7	1,481.0	24.72	60.912	
6,300.0	6,163.6	6,121.8	6,102.9	24.7	13.3	-161.27	444.7	-218.7	1,530.9	1,505.8	25.14	60.891	
6,400.0	6,261.1	6,218.5	6,199.3	25.1	13.6	-161.27	452.8	-219.9	1,556.1	1,530.6	25.56	60.871	
6,500.0	6,358.5	6,315.3	6,295.7	25.6	13.8	-161.26	460.9	-221.2	1,581.3	1,555.4	25.99	60.851	
6,600.0	6,455.9	6,412.1	6,392.1	26.0	14.0	-161.25	468.9	-222.4	1,606.6	1,580.2	26.41	60.831	
6,700.0	6,553.4	6,508.8	6,488.6	26.5	14.2	-161.24	477.0	-223.7	1,631.8	1,605.0	26.83	60.812	
6,800.0	6,650.8	6,605.6	6,585.0	26.9	14.4	-161.24	485.1	-224.9	1,657.0	1,629.8	27.26	60.794	
6,900.0	6,748.3	6,702.4	6,681.4	27.3	14.7	-161.23	493.1	-226.2	1,682.2	1,654.6	27.68	60.776	
7,000.0	6,845.7	6,799.1	6,777.8	27.8	14.9	-161.22	501.2	-227.4	1,707.5	1,679.4	28.10	60.758	
7,100.0	6,943.1	6,895.9	6,874.2	28.2	15.1	-161.21	509.3	-228.7	1,732.7	1,704.2	28.53	60.741	
7,200.0	7,040.6	7,849.0	7,500.0	28.6	13.9	178.98	-61.4	-236.8	1,727.5	1,701.3	26.16	66.041	
7,273.2	7,111.9	7,849.3	7,500.0	29.0	13.9	178.97	-61.7	-236.8	1,725.9	1,699.7	26.29	65.655	
7,300.0	7,138.0	7,849.4	7,500.0	29.1	13.9	178.96	-61.9	-236.8	1,726.2	1,699.8	26.34	65.544	
7,341.8	7,178.7	7,849.6	7,500.0	29.3	13.9	178.96	-62.0	-236.8	1,727.3	1,700.9	26.41	65.403	
7,350.0	7,186.7	7,849.6	7,500.0	29.3	13.9	-177.45	-62.0	-236.8	1,727.7	1,701.2	26.42	65.384	
7,400.0	7,235.4	7,844.9	7,500.0	29.5	13.9	-156.62	-57.4	-236.8	1,730.6	1,704.1	26.48	65.355	
7,450.0	7,283.6	7,833.5	7,499.8	29.7	13.9	-140.09	-45.9	-236.8	1,734.8	1,708.3	26.52	65.412	
7,500.0	7,331.0	7,818.4	7,499.2	29.9	13.8	-128.17	-30.8	-236.8	1,740.4	1,713.8	26.59	65.463	
7,550.0	7,377.4	7,801.0	7,498.0	30.1	13.8	-119.52	-13.5	-236.8	1,747.0	1,720.3	26.70	65.443	
7,600.0	7,422.2	7,782.0	7,496.1	30.3	13.7	-112.97	5.5	-236.7	1,754.6	1,727.7	26.88	65.269	
7,650.0	7,465.2	7,761.8	7,493.4	30.5	13.7	-107.76	25.5	-236.7	1,763.0	1,735.9	27.14	64.957	
7,700.0	7,506.0	7,740.7	7,489.8	30.7	13.6	-103.43	46.2	-236.7	1,772.1	1,744.6	27.47	64.518	
7,750.0	7,544.4	7,719.0	7,485.4	30.9	13.6	-99.73	67.5	-236.6	1,781.6	1,753.8	27.85	63.984	
7,800.0	7,580.0	7,696.8	7,479.9	31.1	13.6	-96.47	89.0	-236.5	1,791.5	1,763.3	28.24	63.434	
7,850.0	7,612.6	7,674.2	7,473.6	31.3	13.6	-93.58	110.7	-236.4	1,801.6	1,772.9	28.65	62.876	
7,900.0	7,641.9	7,650.0	7,465.8	31.5	13.6	-90.93	133.6	-236.3	1,811.7	1,782.6	29.03	62.403	
7,950.0	7,667.7	7,628.2	7,458.0	31.7	13.6	-88.61	154.0	-236.2	1,821.6	1,792.2	29.37	62.018	
8,000.0	7,689.8	7,600.0	7,446.8	32.0	13.7	-86.38	179.8	-236.1	1,831.3	1,801.6	29.66	61.744	
8,050.0	7,708.0	7,581.4	7,438.7	32.2	13.7	-84.59	196.6	-236.0	1,840.5	1,810.7	29.87	61.627	
8,100.0	7,722.3	7,550.0	7,423.8	32.4	13.8	-82.72	224.2	-235.8	1,849.3	1,819.2	30.02	61.593	
8,150.0	7,732.4	7,534.2	7,415.7	32.7	13.8	-81.40	237.8	-235.7	1,857.3	1,827.2	30.10	61.709	
8,200.0	7,738.3	7,510.4	7,403.0	33.0	13.9	-80.13	257.8	-235.5	1,864.6	1,834.5	30.13	61.881	
8,244.9	7,740.0	7,489.1	7,390.8	33.2	13.9	-79.16	275.3	-235.4	1,870.4	1,840.3	30.13	62.074	
8,300.0	7,740.0	7,463.8	7,375.4	33.5	14.0	-78.69	295.5	-235.2	1,877.6	1,846.8	30.78	60.996	
8,400.0	7,740.0	7,422.0	7,348.2	34.1	14.2	-77.87	327.2	-234.8	1,893.3	1,861.2	32.02	59.119	
8,500.0	7,740.0	7,385.1	7,322.4	34.8	14.3	-77.09	353.4	-234.5	1,912.5	1,879.2	33.33	57.383	
8,600.0	7,740.0	7,350.0	7,296.2	35.6	14.4	-76.31	376.9	-234.1	1,935.5	1,900.8	34.68	55.808	
8,700.0	7,740.0	7,324.0	7,276.0	36.5	14.5	-75.71	393.2	-233.9	1,962.3	1,926.3	36.07	54.409	

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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		
8,800.0	7,740.0	7,300.0	7,256.7	37.4	14.6	-75.14	407.4	-233.6	1,993.0	1,955.5	37.48	53.173		
8,900.0	7,740.0	7,276.2	7,236.9	38.3	14.7	-74.55	420.7	-233.4	2,027.4	1,988.5	38.91	52.100		
9,000.0	7,740.0	7,250.0	7,214.6	39.4	14.8	-73.90	434.3	-233.1	2,065.6	2,025.3	40.36	51.179		
9,100.0	7,740.0	7,250.0	7,214.6	40.4	14.8	-73.90	434.3	-233.1	2,107.5	2,065.6	41.86	50.349		
9,200.0	7,740.0	7,222.1	7,190.0	41.6	14.8	-73.19	447.8	-232.8	2,152.6	2,109.3	43.31	49.697		
9,300.0	7,740.0	7,200.0	7,170.3	42.7	14.9	-72.61	457.5	-232.5	2,201.1	2,156.4	44.79	49.148		
9,400.0	7,740.0	7,200.0	7,170.3	43.9	14.9	-72.61	457.5	-232.5	2,252.8	2,206.4	46.33	48.629		
9,500.0	7,740.0	7,200.0	7,170.3	45.2	14.9	-72.61	457.5	-232.5	2,307.6	2,259.7	47.88	48.197		
9,600.0	7,740.0	7,171.5	7,144.2	46.4	15.0	-71.87	469.0	-232.2	2,364.7	2,315.4	49.33	47.939		
9,700.0	7,740.0	7,150.0	7,124.1	47.7	15.0	-71.29	476.7	-231.9	2,424.8	2,374.0	50.80	47.736		
9,800.0	7,740.0	7,150.0	7,124.1	49.1	15.0	-71.29	476.7	-231.9	2,487.1	2,434.8	52.37	47.494		
9,900.0	7,740.0	7,150.0	7,124.1	50.4	15.0	-71.29	476.7	-231.9	2,551.8	2,497.9	53.95	47.303		
10,000.0	7,740.0	7,150.0	7,124.1	51.8	15.0	-71.29	476.7	-231.9	2,618.8	2,563.2	55.53	47.159		
10,100.0	7,740.0	7,129.0	7,104.2	53.2	15.1	-70.73	483.6	-231.7	2,687.4	2,630.4	56.99	47.158		
10,200.0	7,740.0	7,122.3	7,097.9	54.6	15.1	-70.55	485.6	-231.6	2,758.0	2,699.5	58.53	47.119 SF		
10,300.0	7,740.0	7,100.0	7,076.5	56.1	15.1	-69.95	491.9	-231.3	2,830.5	2,770.6	59.96	47.204		
10,400.0	7,740.0	7,100.0	7,076.5	57.6	15.1	-69.95	491.9	-231.3	2,904.3	2,842.8	61.56	47.182		
10,500.0	7,740.0	7,100.0	7,076.5	59.0	15.1	-69.95	491.9	-231.3	2,979.6	2,916.5	63.15	47.182		
10,600.0	7,740.0	7,100.0	7,076.5	60.5	15.1	-69.95	491.9	-231.3	3,056.3	2,991.6	64.75	47.201		
10,700.0	7,740.0	7,100.0	7,076.5	62.0	15.1	-69.95	491.9	-231.3	3,134.4	3,068.0	66.35	47.237		
10,800.0	7,740.0	7,100.0	7,076.5	63.5	15.1	-69.95	491.9	-231.3	3,213.6	3,145.7	67.96	47.287		
10,900.0	7,740.0	7,100.0	7,076.5	65.1	15.1	-69.95	491.9	-231.3	3,294.0	3,224.4	69.57	47.349		
11,000.0	7,740.0	7,100.0	7,076.5	66.6	15.1	-69.95	491.9	-231.3	3,375.4	3,304.2	71.18	47.422		
11,100.0	7,740.0	7,078.5	7,055.7	68.2	15.2	-69.37	497.1	-231.0	3,457.4	3,384.8	72.57	47.645		
11,200.0	7,740.0	7,075.0	7,052.2	69.7	15.2	-69.28	497.9	-231.0	3,540.6	3,466.4	74.14	47.758		
11,300.0	7,740.0	7,071.6	7,048.9	71.3	15.2	-69.19	498.6	-230.9	3,624.6	3,548.8	75.71	47.876		
11,400.0	7,740.0	7,050.0	7,027.7	72.9	15.2	-68.60	502.8	-230.7	3,709.6	3,632.6	77.06	48.138		
11,500.0	7,740.0	7,050.0	7,027.7	74.5	15.2	-68.60	502.8	-230.7	3,795.0	3,716.4	78.67	48.241		
11,600.0	7,740.0	7,050.0	7,027.7	76.1	15.2	-68.60	502.8	-230.7	3,881.1	3,800.8	80.28	48.348		
11,700.0	7,740.0	7,050.0	7,027.7	77.7	15.2	-68.60	502.8	-230.7	3,967.9	3,886.0	81.88	48.457		
11,800.0	7,740.0	7,050.0	7,027.7	79.3	15.2	-68.60	502.8	-230.7	4,055.2	3,971.7	83.49	48.570		
11,900.0	7,740.0	7,050.0	7,027.7	80.9	15.2	-68.60	502.8	-230.7	4,143.2	4,058.1	85.10	48.684		
12,000.0	7,740.0	7,050.0	7,027.7	82.5	15.2	-68.60	502.8	-230.7	4,231.6	4,144.9	86.72	48.799		
12,100.0	7,740.0	7,050.0	7,027.7	84.2	15.2	-68.60	502.8	-230.7	4,320.6	4,232.3	88.33	48.915		
12,200.0	7,740.0	7,050.0	7,027.7	85.8	15.2	-68.60	502.8	-230.7	4,410.0	4,320.1	89.94	49.032		
12,300.0	7,740.0	7,050.0	7,027.7	87.4	15.2	-68.60	502.8	-230.7	4,499.9	4,408.4	91.56	49.149		
12,400.0	7,740.0	7,050.0	7,027.7	89.1	15.2	-68.60	502.8	-230.7	4,590.2	4,497.1	93.17	49.266		
12,500.0	7,740.0	7,050.0	7,027.7	90.7	15.2	-68.60	502.8	-230.7	4,680.9	4,586.1	94.79	49.383		
12,600.0	7,740.0	7,050.0	7,027.7	92.4	15.2	-68.60	502.8	-230.7	4,772.0	4,675.6	96.41	49.499		
12,700.0	7,740.0	7,050.0	7,027.7	94.0	15.2	-68.60	502.8	-230.7	4,863.4	4,765.4	98.02	49.615		
12,800.0	7,740.0	7,050.0	7,027.7	95.7	15.2	-68.60	502.8	-230.7	4,955.2	4,855.5	99.64	49.730		
12,900.0	7,740.0	7,050.0	7,027.7	97.3	15.2	-68.60	502.8	-230.7	5,047.2	4,946.0	101.26	49.844		
13,000.0	7,740.0	7,050.0	7,027.7	99.0	15.2	-68.60	502.8	-230.7	5,139.6	5,036.7	102.88	49.958		
13,100.0	7,740.0	7,050.0	7,027.7	100.7	15.2	-68.60	502.8	-230.7	5,232.2	5,127.7	104.50	50.070		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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	-89.62	0.7	-110.0	110.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.62	0.7	-110.0	110.0	109.7	0.30	362.198		
200.0	200.0	200.0	200.0	0.3	0.3	-89.62	0.7	-110.0	110.0	109.3	0.65	168.509		
250.0	250.0	250.0	250.0	0.4	0.4	-89.62	0.7	-110.0	110.0	109.2	0.83	132.959	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	170.40	0.7	-110.0	110.2	109.2	1.00	110.013		
400.0	400.0	400.0	400.0	0.7	0.7	170.55	0.7	-110.0	111.9	110.6	1.35	82.872		
500.0	499.9	500.8	500.8	0.9	0.9	171.23	1.5	-109.6	115.0	113.3	1.70	67.603		
600.0	599.8	601.5	601.4	1.1	1.0	172.77	3.9	-108.4	119.1	117.1	2.05	58.000		
700.0	699.5	702.0	701.9	1.3	1.2	175.05	7.9	-106.5	124.4	122.0	2.41	51.599		
800.0	799.2	802.3	802.0	1.5	1.4	177.89	13.4	-103.8	131.1	128.3	2.78	47.205		
900.0	898.6	902.4	901.7	1.7	1.6	-178.85	20.5	-100.4	139.3	136.1	3.15	44.167		
1,000.0	997.9	1,001.5	1,000.5	2.0	1.8	-175.73	28.3	-96.6	149.5	145.9	3.54	42.269		
1,100.0	1,096.9	1,100.5	1,099.1	2.3	2.0	-173.08	36.0	-92.8	161.8	157.9	3.92	41.220		
1,200.0	1,195.7	1,199.3	1,197.5	2.6	2.3	-170.88	43.7	-89.1	176.1	171.8	4.32	40.775		
1,300.0	1,294.1	1,297.8	1,295.7	2.9	2.5	-169.11	51.4	-85.3	192.3	187.6	4.72	40.770		
1,400.0	1,392.3	1,396.0	1,393.5	3.3	2.7	-167.70	59.1	-81.6	210.3	205.2	5.12	41.089		
1,500.0	1,490.1	1,494.0	1,491.1	3.7	2.9	-166.60	66.7	-77.9	230.1	224.6	5.52	41.653		
1,600.0	1,587.5	1,591.6	1,588.3	4.1	3.1	-165.76	74.3	-74.2	251.6	245.7	5.93	42.406		
1,700.0	1,684.6	1,688.8	1,685.2	4.5	3.4	-165.13	81.9	-70.5	274.8	268.5	6.34	43.310		
1,750.0	1,732.9	1,737.3	1,733.5	4.8	3.5	-164.89	85.7	-68.6	287.0	280.5	6.55	43.811		
1,800.0	1,781.2	1,785.7	1,781.8	5.0	3.6	-162.76	89.5	-66.8	299.4	292.6	6.77	44.208		
1,900.0	1,877.8	1,882.7	1,878.4	5.5	3.8	-158.75	97.1	-63.1	323.7	316.4	7.22	44.819		
1,981.2	1,956.2	1,961.6	1,956.9	5.9	4.0	-155.71	103.2	-60.1	342.9	335.3	7.59	45.178		
2,000.0	1,974.4	1,979.9	1,975.2	6.0	4.0	-155.79	104.7	-59.4	347.3	339.7	7.68	45.250		
2,100.0	2,071.3	2,077.3	2,072.2	6.4	4.2	-156.11	112.3	-55.7	369.8	361.7	8.13	45.506		
2,181.5	2,150.7	2,157.0	2,151.6	6.7	4.4	-156.27	118.5	-52.7	387.0	378.5	8.49	45.556		
2,200.0	2,168.6	2,175.1	2,169.7	6.8	4.5	-156.28	119.9	-52.0	390.7	382.2	8.58	45.560		
2,300.0	2,266.1	2,273.0	2,267.2	7.3	4.7	-156.33	127.5	-48.3	411.2	402.1	9.02	45.577		
2,400.0	2,363.5	2,370.9	2,364.7	7.7	4.9	-156.37	135.2	-44.6	431.6	422.1	9.47	45.586		
2,500.0	2,461.0	2,468.8	2,462.2	8.1	5.1	-156.42	142.8	-40.8	452.0	442.1	9.91	45.590		
2,600.0	2,558.4	2,566.7	2,559.7	8.6	5.4	-156.46	150.5	-37.1	472.4	462.1	10.36	45.590		
2,700.0	2,655.8	2,664.6	2,657.3	9.0	5.6	-156.49	158.1	-33.4	492.9	482.0	10.81	45.587		
2,800.0	2,753.3	2,762.5	2,754.8	9.4	5.8	-156.52	165.8	-29.7	513.3	502.0	11.26	45.581		
2,900.0	2,850.7	2,860.3	2,852.3	9.9	6.0	-156.55	173.4	-26.0	533.7	522.0	11.71	45.574		
3,000.0	2,948.2	2,958.2	2,949.8	10.3	6.3	-156.58	181.0	-22.2	554.1	542.0	12.16	45.565		
3,100.0	3,045.6	3,056.1	3,047.4	10.7	6.5	-156.61	188.7	-18.5	574.5	561.9	12.61	45.555		
3,200.0	3,143.0	3,154.0	3,144.9	11.2	6.7	-156.63	196.3	-14.8	595.0	581.9	13.06	45.544		
3,300.0	3,240.5	3,251.9	3,242.4	11.6	6.9	-156.65	204.0	-11.1	615.4	601.9	13.52	45.533		
3,400.0	3,337.9	3,349.8	3,339.9	12.0	7.2	-156.68	211.6	-7.4	635.8	621.8	13.97	45.521		
3,500.0	3,435.3	3,447.7	3,437.4	12.5	7.4	-156.70	219.3	-3.6	656.2	641.8	14.42	45.510		
3,600.0	3,532.8	3,545.6	3,535.0	12.9	7.6	-156.71	226.9	0.1	676.6	661.8	14.87	45.498		
3,700.0	3,630.2	3,643.5	3,632.5	13.3	7.8	-156.73	234.6	3.8	697.1	681.7	15.32	45.486		
3,800.0	3,727.7	3,741.4	3,730.0	13.8	8.1	-156.75	242.2	7.5	717.5	701.7	15.78	45.474		
3,900.0	3,825.1	3,839.3	3,827.5	14.2	8.3	-156.76	249.8	11.2	737.9	721.7	16.23	45.462		
4,000.0	3,922.5	3,937.2	3,925.1	14.6	8.5	-156.78	257.5	15.0	758.3	741.7	16.68	45.451		
4,100.0	4,020.0	4,035.1	4,022.6	15.1	8.7	-156.79	265.1	18.7	778.8	761.6	17.14	45.439		
4,200.0	4,117.4	4,132.9	4,120.1	15.5	9.0	-156.81	272.8	22.4	799.2	781.6	17.59	45.428		
4,300.0	4,214.9	4,230.8	4,217.6	16.0	9.2	-156.82	280.4	26.1	819.6	801.6	18.05	45.417		
4,400.0	4,312.3	4,328.7	4,315.1	16.4	9.4	-156.83	288.1	29.8	840.0	821.5	18.50	45.406		
4,500.0	4,409.7	4,426.6	4,412.7	16.8	9.6	-156.84	295.7	33.6	860.4	841.5	18.95	45.395		
4,600.0	4,507.2	4,524.5	4,510.2	17.3	9.9	-156.85	303.3	37.3	880.9	861.5	19.41	45.385		
4,700.0	4,604.6	4,622.4	4,607.7	17.7	10.1	-156.86	311.0	41.0	901.3	881.4	19.86	45.375		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2C-7H-E168 - HZ - Plan #2												Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
4,800.0	4,702.0	4,720.3	4,705.2	18.1	10.3	-156.87	318.6	44.7	921.7	901.4	20.32	45.365	
4,900.0	4,799.5	4,818.2	4,802.8	18.6	10.5	-156.88	326.3	48.4	942.1	921.4	20.77	45.355	
5,000.0	4,896.9	4,916.1	4,900.3	19.0	10.8	-156.89	333.9	52.1	962.6	941.3	21.23	45.345	
5,100.0	4,994.4	5,014.0	4,997.8	19.4	11.0	-156.90	341.6	55.9	983.0	961.3	21.68	45.336	
5,200.0	5,091.8	5,111.9	5,095.3	19.9	11.2	-156.91	349.2	59.6	1,003.4	981.3	22.14	45.327	
5,300.0	5,189.2	5,209.8	5,192.8	20.3	11.5	-156.92	356.8	63.3	1,023.8	1,001.2	22.59	45.318	
5,400.0	5,286.7	5,307.7	5,290.4	20.8	11.7	-156.93	364.5	67.0	1,044.3	1,021.2	23.05	45.310	
5,500.0	5,384.1	5,405.5	5,387.9	21.2	11.9	-156.93	372.1	70.7	1,064.7	1,041.2	23.50	45.301	
5,600.0	5,481.6	5,503.4	5,485.4	21.6	12.1	-156.94	379.8	74.5	1,085.1	1,061.1	23.96	45.293	
5,700.0	5,579.0	5,601.3	5,582.9	22.1	12.4	-156.95	387.4	78.2	1,105.5	1,081.1	24.41	45.285	
5,800.0	5,676.4	5,699.2	5,680.5	22.5	12.6	-156.95	395.1	81.9	1,125.9	1,101.1	24.87	45.277	
5,900.0	5,773.9	5,797.1	5,778.0	22.9	12.8	-156.96	402.7	85.6	1,146.4	1,121.0	25.32	45.270	
6,000.0	5,871.3	5,895.0	5,875.5	23.4	13.0	-156.97	410.4	89.3	1,166.8	1,141.0	25.78	45.262	
6,100.0	5,968.7	5,992.9	5,973.0	23.8	13.3	-156.97	418.0	93.1	1,187.2	1,161.0	26.23	45.255	
6,200.0	6,066.2	6,090.8	6,070.5	24.3	13.5	-156.98	425.6	96.8	1,207.6	1,180.9	26.69	45.248	
6,300.0	6,163.6	6,188.7	6,168.1	24.7	13.7	-156.98	433.3	100.5	1,228.1	1,200.9	27.14	45.241	
6,400.0	6,261.1	6,286.6	6,265.6	25.1	13.9	-156.99	440.9	104.2	1,248.5	1,220.9	27.60	45.235	
6,500.0	6,358.5	6,384.5	6,363.1	25.6	14.2	-156.99	448.6	107.9	1,268.9	1,240.8	28.06	45.228	
6,600.0	6,455.9	6,482.4	6,460.6	26.0	14.4	-157.00	456.2	111.7	1,289.3	1,260.8	28.51	45.222	
6,700.0	6,553.4	6,580.3	6,558.2	26.5	14.6	-157.00	463.9	115.4	1,309.8	1,280.8	28.97	45.215	
6,800.0	6,650.8	6,678.1	6,655.7	26.9	14.8	-157.01	471.5	119.1	1,330.2	1,300.8	29.42	45.209	
6,900.0	6,748.3	6,776.0	6,753.2	27.3	15.1	-157.01	479.1	122.8	1,350.6	1,320.7	29.88	45.203	
7,000.0	6,845.7	6,873.9	6,850.7	27.8	15.3	-157.02	486.8	126.5	1,371.0	1,340.7	30.33	45.197	
7,100.0	6,943.1	6,971.8	6,948.3	28.2	15.5	-157.02	494.4	130.3	1,391.4	1,360.7	30.79	45.192	
7,200.0	7,040.6	7,069.7	7,045.8	28.6	15.7	-157.03	502.1	134.0	1,411.9	1,380.6	31.25	45.186	
7,300.0	7,138.0	7,167.3	7,139.0	29.1	14.8	-179.62	-28.7	160.4	1,424.0	1,397.3	26.69	53.344	
7,341.8	7,178.7	7,208.1	7,179.9	29.3	14.9	-177.26	-54.1	160.5	1,415.9	1,389.0	26.87	52.690	
7,350.0	7,186.7	7,216.1	7,187.9	29.3	14.9	-177.26	-54.1	160.5	1,414.5	1,387.6	26.90	52.587	
7,400.0	7,235.4	7,264.8	7,237.7	29.5	14.9	-157.29	-44.9	160.4	1,406.6	1,379.6	26.97	52.158	
7,450.0	7,283.6	7,313.0	7,284.8	29.7	14.8	-141.42	-26.2	160.4	1,400.4	1,373.4	26.98	51.905	
7,500.0	7,331.0	7,360.4	7,332.0	29.9	14.8	-130.11	-4.5	160.3	1,395.9	1,368.9	27.00	51.703	
7,550.0	7,377.4	7,406.8	7,378.2	30.1	14.7	-122.05	18.4	160.2	1,393.0	1,365.9	27.04	51.517	
7,600.0	7,422.2	7,451.6	7,423.0	30.3	14.7	-116.06	41.9	160.1	1,391.6	1,364.4	27.13	51.289	
7,625.3	7,444.2	7,473.6	7,427.9	30.4	14.7	-113.55	53.9	160.0	1,391.4	1,364.2	27.20	51.148	
7,650.0	7,465.2	7,494.6	7,425.4	30.5	14.7	-111.36	65.6	159.9	1,391.5	1,364.3	27.29	50.991	
7,700.0	7,506.0	7,535.4	7,471.4	30.7	14.7	-107.51	89.3	159.7	1,392.8	1,365.3	27.53	50.601	
7,750.0	7,544.4	7,573.8	7,512.3	30.9	14.7	-104.21	112.9	159.4	1,395.3	1,367.4	27.83	50.127	
7,800.0	7,580.0	7,609.4	7,540.2	31.1	14.7	-101.31	136.3	159.1	1,398.8	1,370.5	28.21	49.587	
7,850.0	7,612.6	7,642.0	7,595.1	31.3	14.7	-98.68	159.3	158.7	1,403.1	1,374.5	28.63	49.010	
7,900.0	7,641.9	7,671.3	7,685.0	31.5	14.7	-96.28	182.0	158.4	1,408.3	1,379.2	29.07	48.437	
7,950.0	7,667.7	7,697.1	7,673.8	31.7	14.8	-94.06	204.3	157.9	1,414.0	1,384.5	29.52	47.902	
8,000.0	7,689.8	7,719.2	7,661.7	32.0	14.8	-91.99	226.1	157.5	1,420.2	1,390.2	29.93	47.443	
8,050.0	7,708.0	7,737.4	7,648.7	32.2	14.9	-90.08	247.3	157.0	1,426.6	1,396.3	30.30	47.079	
8,100.0	7,722.3	7,751.7	7,634.8	32.4	14.9	-88.30	267.9	156.4	1,433.3	1,402.7	30.61	46.830	
8,150.0	7,732.4	7,761.8	7,620.0	32.7	15.0	-86.68	287.9	155.9	1,440.0	1,409.1	30.83	46.699	
8,200.0	7,738.3	7,767.7	7,604.4	33.0	15.1	-85.20	307.2	155.3	1,446.5	1,415.5	30.98	46.686	
8,244.9	7,740.0	7,769.4	7,589.6	33.2	15.1	-84.01	323.9	154.7	1,452.2	1,421.2	31.05	46.763	
8,300.0	7,740.0	7,769.4	7,571.5	33.5	15.2	-83.30	342.9	154.0	1,459.7	1,428.0	31.71	46.034	
8,400.0	7,740.0	7,769.4	7,541.7	34.1	15.3	-82.13	370.5	152.9	1,476.8	1,443.9	32.95	44.817	
8,500.0	7,740.0	7,769.4	7,512.7	34.8	15.5	-81.00	394.0	151.8	1,498.8	1,464.5	34.25	43.754	
8,600.0	7,740.0	7,769.4	7,487.6	35.6	15.5	-80.04	411.9	150.8	1,525.6	1,490.0	35.60	42.858	
8,700.0	7,740.0	7,769.4	7,460.8	36.5	15.6	-79.01	428.9	149.8	1,557.4	1,520.4	36.97	42.123	

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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		
8,800.0	7,740.0	7,482.1	7,445.4	37.4	15.7	-78.42	437.8	149.2	1,594.0	1,555.6	38.38	41.530		
8,900.0	7,740.0	7,450.0	7,416.9	38.3	15.8	-77.34	452.6	148.1	1,635.4	1,595.6	39.79	41.101		
9,000.0	7,740.0	7,450.0	7,416.9	39.4	15.8	-77.34	452.6	148.1	1,681.0	1,639.7	41.28	40.721		
9,100.0	7,740.0	7,428.6	7,397.4	40.4	15.8	-76.62	461.6	147.4	1,730.8	1,688.1	42.73	40.503		
9,200.0	7,740.0	7,400.0	7,371.0	41.6	15.9	-75.63	472.4	146.4	1,784.8	1,740.6	44.16	40.413		
9,300.0	7,740.0	7,400.0	7,371.0	42.7	15.9	-75.63	472.4	146.4	1,841.9	1,796.2	45.71	40.296		
9,400.0	7,740.0	7,400.0	7,371.0	43.9	15.9	-75.63	472.4	146.4	1,902.7	1,855.4	47.27	40.249 SF		
9,500.0	7,740.0	7,380.9	7,353.1	45.2	15.9	-74.97	478.9	145.7	1,966.3	1,917.5	48.75	40.337		
9,600.0	7,740.0	7,371.8	7,344.4	46.4	15.9	-74.65	481.8	145.4	2,032.7	1,982.5	50.28	40.432		
9,700.0	7,740.0	7,350.0	7,323.6	47.7	16.0	-73.90	488.1	144.6	2,101.9	2,050.1	51.73	40.633		
9,800.0	7,740.0	7,350.0	7,323.6	49.1	16.0	-73.90	488.1	144.6	2,173.0	2,119.7	53.32	40.754		
9,900.0	7,740.0	7,350.0	7,323.6	50.4	16.0	-73.90	488.1	144.6	2,246.4	2,191.5	54.92	40.902		
10,000.0	7,740.0	7,350.0	7,323.6	51.8	16.0	-73.90	488.1	144.6	2,321.7	2,265.2	56.53	41.072		
10,100.0	7,740.0	7,350.0	7,323.6	53.2	16.0	-73.90	488.1	144.6	2,398.9	2,340.8	58.14	41.260		
10,200.0	7,740.0	7,350.0	7,323.6	54.6	16.0	-73.90	488.1	144.6	2,477.7	2,417.9	59.76	41.461		
10,300.0	7,740.0	7,325.9	7,300.2	56.1	16.0	-73.05	494.2	143.7	2,557.4	2,496.2	61.17	41.812		
10,400.0	7,740.0	7,321.1	7,295.6	57.6	16.0	-72.89	495.3	143.5	2,638.8	2,576.1	62.74	42.059		
10,500.0	7,740.0	7,300.0	7,275.0	59.0	16.0	-72.15	499.7	142.7	2,721.6	2,657.5	64.15	42.427		
10,600.0	7,740.0	7,300.0	7,275.0	60.5	16.0	-72.15	499.7	142.7	2,805.2	2,739.4	65.77	42.652		
10,700.0	7,740.0	7,300.0	7,275.0	62.0	16.0	-72.15	499.7	142.7	2,889.8	2,822.4	67.39	42.881		
10,800.0	7,740.0	7,300.0	7,275.0	63.5	16.0	-72.15	499.7	142.7	2,975.4	2,906.4	69.02	43.110		
10,900.0	7,740.0	7,300.0	7,275.0	65.1	16.0	-72.15	499.7	142.7	3,061.8	2,991.2	70.65	43.340		
11,000.0	7,740.0	7,300.0	7,275.0	66.6	16.0	-72.15	499.7	142.7	3,149.1	3,076.8	72.28	43.569		
11,100.0	7,740.0	7,300.0	7,275.0	68.2	16.0	-72.15	499.7	142.7	3,237.1	3,163.2	73.91	43.796		
11,200.0	7,740.0	7,300.0	7,275.0	69.7	16.0	-72.15	499.7	142.7	3,325.7	3,250.2	75.55	44.022		
11,300.0	7,740.0	7,300.0	7,275.0	71.3	16.0	-72.15	499.7	142.7	3,415.0	3,337.9	77.19	44.245		
11,400.0	7,740.0	7,300.0	7,275.0	72.9	16.0	-72.15	499.7	142.7	3,504.9	3,426.1	78.82	44.465		
11,500.0	7,740.0	7,300.0	7,275.0	74.5	16.0	-72.15	499.7	142.7	3,595.3	3,514.9	80.47	44.682		
11,600.0	7,740.0	7,300.0	7,275.0	76.1	16.0	-72.15	499.7	142.7	3,686.2	3,604.1	82.11	44.895		
11,700.0	7,740.0	7,300.0	7,275.0	77.7	16.0	-72.15	499.7	142.7	3,777.6	3,693.8	83.75	45.105		
11,800.0	7,740.0	7,278.0	7,253.3	79.3	16.0	-71.39	503.4	141.9	3,868.9	3,783.9	85.06	45.487		
11,900.0	7,740.0	7,276.0	7,251.4	80.9	16.0	-71.32	503.7	141.8	3,961.0	3,874.3	86.66	45.706		
12,000.0	7,740.0	7,274.1	7,249.5	82.5	16.0	-71.25	504.0	141.7	4,053.5	3,965.2	88.27	45.921		
12,100.0	7,740.0	7,272.3	7,247.6	84.2	16.0	-71.19	504.2	141.7	4,146.3	4,056.4	89.88	46.132		
12,200.0	7,740.0	7,250.0	7,225.5	85.8	16.0	-70.42	506.9	140.8	4,239.8	4,148.7	91.13	46.526		
12,300.0	7,740.0	7,250.0	7,225.5	87.4	16.0	-70.42	506.9	140.8	4,333.2	4,240.4	92.76	46.713		
12,400.0	7,740.0	7,250.0	7,225.5	89.1	16.0	-70.42	506.9	140.8	4,426.8	4,332.4	94.40	46.896		
12,500.0	7,740.0	7,250.0	7,225.5	90.7	16.0	-70.42	506.9	140.8	4,520.8	4,424.7	96.03	47.076		
12,600.0	7,740.0	7,250.0	7,225.5	92.4	16.0	-70.42	506.9	140.8	4,615.0	4,517.3	97.67	47.252		
12,700.0	7,740.0	7,250.0	7,225.5	94.0	16.0	-70.42	506.9	140.8	4,709.4	4,610.1	99.30	47.424		
12,800.0	7,740.0	7,250.0	7,225.5	95.7	16.0	-70.42	506.9	140.8	4,804.0	4,703.1	100.94	47.592		
12,900.0	7,740.0	7,250.0	7,225.5	97.3	16.0	-70.42	506.9	140.8	4,898.9	4,796.3	102.58	47.757		
13,000.0	7,740.0	7,250.0	7,225.5	99.0	16.0	-70.42	506.9	140.8	4,994.0	4,889.7	104.22	47.919		
13,100.0	7,740.0	7,250.0	7,225.5	100.7	16.0	-70.42	506.9	140.8	5,089.2	4,983.4	105.86	48.077		
13,200.0	7,740.0	7,250.0	7,225.5	102.3	16.0	-70.42	506.9	140.8	5,184.6	5,077.1	107.50	48.231		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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	-89.58	0.7	-99.9	99.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.58	0.7	-99.9	99.9	99.6	0.30	329.021		
200.0	200.0	200.0	200.0	0.3	0.3	-89.58	0.7	-99.9	99.9	99.3	0.65	153.074		
250.0	250.0	250.0	250.0	0.4	0.4	-89.58	0.7	-99.9	99.9	99.1	0.83	120.780 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	170.44	0.7	-99.9	100.1	99.1	1.00	99.955		
400.0	400.0	400.0	400.0	0.7	0.7	170.60	0.7	-99.9	101.9	100.5	1.35	75.412		
500.0	499.9	499.9	499.9	0.9	0.8	170.91	0.7	-99.9	105.3	103.6	1.70	61.970		
600.0	599.8	601.0	601.0	1.1	1.0	171.70	1.4	-99.4	109.9	107.9	2.05	53.632		
700.0	699.5	702.0	701.9	1.3	1.2	173.25	3.5	-97.7	115.3	112.9	2.40	47.998		
800.0	799.2	802.9	802.8	1.5	1.4	175.43	6.9	-94.8	121.4	118.6	2.76	44.051		
900.0	898.6	903.7	903.3	1.7	1.6	178.10	11.7	-90.9	128.5	125.4	3.12	41.235		
1,000.0	997.9	1,004.2	1,003.6	2.0	1.8	-178.88	17.8	-85.8	136.8	133.3	3.49	39.213		
1,100.0	1,096.9	1,104.6	1,103.5	2.3	2.0	-175.62	25.3	-79.7	146.4	142.5	3.88	37.759		
1,200.0	1,195.7	1,204.6	1,202.8	2.6	2.3	-172.26	34.1	-72.4	157.4	153.1	4.29	36.717		
1,300.0	1,294.1	1,303.4	1,300.9	2.9	2.5	-169.22	43.4	-64.7	170.3	165.6	4.71	36.151		
1,400.0	1,392.3	1,402.0	1,398.7	3.3	2.7	-166.72	52.7	-57.1	185.3	180.2	5.15	35.984		
1,500.0	1,490.1	1,500.3	1,496.3	3.7	3.0	-164.72	62.0	-49.5	202.3	196.7	5.60	36.113		
1,600.0	1,587.5	1,598.4	1,593.6	4.1	3.2	-163.13	71.2	-41.8	221.1	215.0	6.06	36.463		
1,700.0	1,684.6	1,696.1	1,690.7	4.5	3.5	-161.91	80.5	-34.3	241.7	235.1	6.53	36.983		
1,750.0	1,732.9	1,744.9	1,739.0	4.8	3.6	-161.42	85.0	-30.5	252.6	245.8	6.77	37.297		
1,800.0	1,781.2	1,793.6	1,787.4	5.0	3.8	-159.09	89.6	-26.7	263.6	256.6	7.03	37.527		
1,900.0	1,877.8	1,891.2	1,884.3	5.5	4.0	-154.75	98.8	-19.1	285.2	277.7	7.54	37.822		
1,981.2	1,956.2	1,970.6	1,963.1	5.9	4.2	-151.51	106.3	-12.9	302.3	294.3	7.97	37.941		
2,000.0	1,974.4	1,989.0	1,981.4	6.0	4.3	-151.54	108.1	-11.5	306.1	298.1	8.06	37.964		
2,100.0	2,071.3	2,087.1	2,078.7	6.4	4.5	-151.59	117.3	-3.9	325.8	317.2	8.58	37.972		
2,181.5	2,150.7	2,167.2	2,158.2	6.7	4.8	-151.53	124.9	2.3	340.7	331.7	9.00	37.843		
2,200.0	2,168.6	2,185.4	2,176.3	6.8	4.8	-151.49	126.6	3.7	344.0	334.9	9.10	37.806		
2,300.0	2,266.1	2,283.8	2,274.0	7.3	5.1	-151.29	135.8	11.4	361.7	352.1	9.62	37.608		
2,400.0	2,363.5	2,382.2	2,371.6	7.7	5.3	-151.10	145.1	19.0	379.4	369.2	10.14	37.421		
2,500.0	2,461.0	2,480.6	2,469.3	8.1	5.6	-150.94	154.4	26.6	397.1	386.4	10.66	37.244		
2,600.0	2,558.4	2,579.0	2,567.0	8.6	5.9	-150.78	163.7	34.3	414.8	403.6	11.19	37.077		
2,700.0	2,655.8	2,677.5	2,664.7	9.0	6.1	-150.64	172.9	41.9	432.5	420.7	11.71	36.919		
2,800.0	2,753.3	2,775.9	2,762.3	9.4	6.4	-150.51	182.2	49.6	450.2	437.9	12.24	36.770		
2,900.0	2,850.7	2,874.3	2,860.0	9.9	6.7	-150.39	191.5	57.2	467.9	455.1	12.77	36.630		
3,000.0	2,948.2	2,972.7	2,957.7	10.3	6.9	-150.28	200.8	64.8	485.6	472.3	13.30	36.498		
3,100.0	3,045.6	3,071.1	3,055.4	10.7	7.2	-150.18	210.0	72.5	503.3	489.4	13.84	36.373		
3,200.0	3,143.0	3,169.5	3,153.1	11.2	7.5	-150.08	219.3	80.1	521.0	506.6	14.37	36.255		
3,300.0	3,240.5	3,268.0	3,250.7	11.6	7.8	-149.99	228.6	87.8	538.7	523.8	14.90	36.144		
3,400.0	3,337.9	3,366.4	3,348.4	12.0	8.0	-149.91	237.9	95.4	556.4	541.0	15.44	36.038		
3,500.0	3,435.3	3,464.8	3,446.1	12.5	8.3	-149.83	247.1	103.0	574.1	558.2	15.98	35.938		
3,600.0	3,532.8	3,563.2	3,543.8	12.9	8.6	-149.75	256.4	110.7	591.8	575.3	16.51	35.844		
3,700.0	3,630.2	3,661.6	3,641.5	13.3	8.8	-149.68	265.7	118.3	609.6	592.5	17.05	35.754		
3,800.0	3,727.7	3,760.0	3,739.1	13.8	9.1	-149.62	275.0	126.0	627.3	609.7	17.59	35.668		
3,900.0	3,825.1	3,858.5	3,836.8	14.2	9.4	-149.56	284.2	133.6	645.0	626.9	18.12	35.587		
4,000.0	3,922.5	3,956.9	3,934.5	14.6	9.6	-149.50	293.5	141.2	662.7	644.1	18.66	35.509		
4,100.0	4,020.0	4,055.3	4,032.2	15.1	9.9	-149.44	302.8	148.9	680.4	661.2	19.20	35.435		
4,200.0	4,117.4	4,153.7	4,129.9	15.5	10.2	-149.39	312.1	156.5	698.2	678.4	19.74	35.365		
4,300.0	4,214.9	4,252.1	4,227.5	16.0	10.4	-149.34	321.3	164.2	715.9	695.6	20.28	35.298		
4,400.0	4,312.3	4,350.5	4,325.2	16.4	10.7	-149.29	330.6	171.8	733.6	712.8	20.82	35.233		
4,500.0	4,409.7	4,448.9	4,422.9	16.8	11.0	-149.24	339.9	179.4	751.3	730.0	21.36	35.172		
4,600.0	4,507.2	4,547.4	4,520.6	17.3	11.3	-149.20	349.2	187.1	769.0	747.1	21.90	35.113		
4,700.0	4,604.6	4,645.8	4,618.3	17.7	11.5	-149.16	358.4	194.7	786.8	764.3	22.44	35.056		

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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		
4,800.0	4,702.0	4,744.2	4,715.9	18.1	11.8	-149.12	367.7	202.3	804.5	781.5	22.98	35.002		
4,900.0	4,799.5	4,842.6	4,813.6	18.6	12.1	-149.08	377.0	210.0	822.2	798.7	23.53	34.950		
5,000.0	4,896.9	4,941.0	4,911.3	19.0	12.3	-149.04	386.3	217.6	839.9	815.9	24.07	34.900		
5,100.0	4,994.4	5,039.4	5,009.0	19.4	12.6	-149.01	395.5	225.3	857.7	833.0	24.61	34.852		
5,200.0	5,091.8	5,137.9	5,106.7	19.9	12.9	-148.97	404.8	232.9	875.4	850.2	25.15	34.806		
5,300.0	5,189.2	5,236.3	5,204.3	20.3	13.2	-148.94	414.1	240.5	893.1	867.4	25.69	34.762		
5,400.0	5,286.7	5,334.7	5,302.0	20.8	13.4	-148.91	423.4	248.2	910.8	884.6	26.23	34.719		
5,500.0	5,384.1	5,433.1	5,399.7	21.2	13.7	-148.88	432.6	255.8	928.5	901.8	26.78	34.678		
5,600.0	5,481.6	5,531.5	5,497.4	21.6	14.0	-148.85	441.9	263.5	946.3	919.0	27.32	34.638		
5,700.0	5,579.0	5,629.9	5,595.0	22.1	14.2	-148.83	451.2	271.1	964.0	936.1	27.86	34.600		
5,800.0	5,676.4	5,728.3	5,692.7	22.5	14.5	-148.80	460.5	278.7	981.7	953.3	28.40	34.563		
5,900.0	5,773.9	5,826.8	5,790.4	22.9	14.8	-148.77	469.7	286.4	999.4	970.5	28.95	34.527		
6,000.0	5,871.3	5,925.2	5,888.1	23.4	15.0	-148.75	479.0	294.0	1,017.2	987.7	29.49	34.492		
6,100.0	5,968.7	6,023.6	5,985.8	23.8	15.3	-148.72	488.3	301.7	1,034.9	1,004.9	30.03	34.459		
6,200.0	6,066.2	6,122.0	6,083.4	24.3	15.6	-148.70	497.6	309.3	1,052.6	1,022.0	30.58	34.426		
6,300.0	6,163.6	6,220.4	6,181.1	24.7	15.9	-148.68	506.8	316.9	1,070.3	1,039.2	31.12	34.395		
6,400.0	6,261.1	6,318.8	6,278.8	25.1	16.1	-148.66	516.1	324.6	1,088.1	1,056.4	31.66	34.365		
6,500.0	6,358.5	6,417.3	6,376.5	25.6	16.4	-148.64	525.4	332.2	1,105.8	1,073.6	32.21	34.335		
6,600.0	6,455.9	6,515.7	6,474.2	26.0	16.7	-148.62	534.7	339.9	1,123.5	1,090.8	32.75	34.307		
6,700.0	6,553.4	6,614.1	6,571.8	26.5	16.9	-148.60	543.9	347.5	1,141.3	1,108.0	33.29	34.279		
6,800.0	6,650.8	6,712.5	6,669.5	26.9	17.2	-148.58	553.2	355.1	1,159.0	1,125.1	33.84	34.252		
6,900.0	6,748.3	6,810.9	6,767.2	27.3	17.5	-148.56	562.5	362.8	1,176.7	1,142.3	34.38	34.226 SF		
7,000.0	6,845.7	6,936.5	6,800.0	27.8	16.6	179.06	-60.6	420.1	1,164.6	1,138.5	26.13	44.569		
7,100.0	6,943.1	7,936.9	7,500.0	28.2	16.6	179.04	-61.0	420.1	1,132.3	1,106.0	26.31	43.040		
7,200.0	7,040.6	7,937.3	7,500.0	28.6	16.6	179.01	-61.4	420.1	1,108.1	1,081.7	26.49	41.837		
7,300.0	7,138.0	7,937.7	7,500.0	29.1	16.6	178.99	-61.9	420.1	1,092.6	1,065.9	26.67	40.975		
7,341.8	7,178.7	7,937.9	7,500.0	29.3	16.6	178.98	-62.0	420.1	1,088.8	1,062.0	26.74	40.717		
7,350.0	7,186.7	7,937.9	7,500.0	29.3	16.6	-177.52	-62.0	420.1	1,088.2	1,061.5	26.76	40.670		
7,400.0	7,235.4	7,935.2	7,500.0	29.5	16.6	-157.21	-59.3	420.1	1,086.1	1,059.3	26.83	40.477		
7,421.9	7,256.6	7,932.6	7,500.0	29.6	16.6	-149.53	-56.8	420.1	1,085.9	1,059.0	26.85	40.441		
7,450.0	7,283.6	7,928.2	7,500.0	29.7	16.6	-141.10	-52.3	420.1	1,086.2	1,059.4	26.87	40.428		
7,500.0	7,331.0	7,916.9	7,500.0	29.9	16.6	-129.41	-41.0	420.1	1,088.5	1,061.6	26.89	40.475		
7,550.0	7,377.4	7,901.3	7,500.0	30.1	16.5	-120.78	-25.5	420.1	1,092.8	1,065.9	26.95	40.552		
7,600.0	7,422.2	7,881.7	7,500.0	30.3	16.5	-114.03	-5.9	420.1	1,098.9	1,071.8	27.10	40.546		
7,650.0	7,465.2	7,859.5	7,498.8	30.5	16.5	-108.49	16.4	420.1	1,106.5	1,079.2	27.37	40.423		
7,700.0	7,506.0	7,836.9	7,498.8	30.7	16.4	-103.81	38.9	420.0	1,115.4	1,087.6	27.74	40.210		
7,750.0	7,544.4	7,814.1	7,496.9	30.9	16.4	-99.72	61.7	419.8	1,125.3	1,097.1	28.19	39.918		
7,800.0	7,580.0	7,790.9	7,494.1	31.1	16.4	-96.05	84.6	419.6	1,136.0	1,107.3	28.69	39.600		
7,850.0	7,612.6	7,767.6	7,490.3	31.3	16.4	-92.72	107.7	419.3	1,147.3	1,118.1	29.18	39.324		
7,900.0	7,641.9	7,750.0	7,486.8	31.5	16.4	-89.89	124.9	419.0	1,159.0	1,129.4	29.57	39.190		
7,950.0	7,667.7	7,720.5	7,479.7	31.7	16.4	-86.88	153.6	418.5	1,170.9	1,140.9	29.97	39.067		
8,000.0	7,689.8	7,700.0	7,474.0	32.0	16.4	-84.42	173.2	418.0	1,182.7	1,152.5	30.19	39.171		
8,050.0	7,708.0	7,672.9	7,465.3	32.2	16.5	-81.98	198.9	417.4	1,194.4	1,164.1	30.33	39.378		
8,100.0	7,722.3	7,650.0	7,457.1	32.4	16.5	-79.90	220.2	416.7	1,205.7	1,175.4	30.31	39.775		
8,150.0	7,732.4	7,625.0	7,447.1	32.7	16.6	-77.99	243.1	415.9	1,216.5	1,186.3	30.19	40.296		
8,200.0	7,738.3	7,600.0	7,436.1	33.0	16.6	-76.31	265.6	415.1	1,226.6	1,196.6	29.95	40.950		
8,244.9	7,740.0	7,579.4	7,426.4	33.2	16.7	-75.04	283.7	414.3	1,235.0	1,205.3	29.68	41.604		
8,300.0	7,740.0	7,550.0	7,411.3	33.5	16.7	-74.37	308.9	413.1	1,245.6	1,215.3	30.30	41.105		
8,400.0	7,740.0	7,500.0	7,382.8	34.1	16.9	-73.12	350.0	410.9	1,268.4	1,236.9	31.48	40.287		
8,500.0	7,740.0	7,471.1	7,364.8	34.8	17.0	-72.33	372.5	409.5	1,295.9	1,263.1	32.72	39.600		
8,600.0	7,740.0	7,436.1	7,341.4	35.6	17.1	-71.33	398.5	407.7	1,328.2	1,294.2	34.00	39.068		
8,700.0	7,740.0	7,400.0	7,315.7	36.5	17.2	-70.25	423.8	405.7	1,365.4	1,330.1	35.29	38.691		

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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		
8,800.0	7,740.0	7,376.7	7,298.3	37.4	17.3	-69.53	439.2	404.3	1,407.3	1,370.7	36.62	38.432		
8,900.0	7,740.0	7,350.0	7,277.7	38.3	17.4	-68.68	456.0	402.7	1,453.6	1,415.7	37.95	38.307		
9,000.0	7,740.0	7,328.9	7,260.7	39.4	17.5	-67.99	468.6	401.4	1,504.3	1,465.0	39.29	38.282		
9,100.0	7,740.0	7,300.0	7,236.9	40.4	17.5	-67.04	484.8	399.5	1,558.9	1,518.3	40.61	38.391		
9,200.0	7,740.0	7,300.0	7,236.9	41.6	17.5	-67.04	484.8	399.5	1,617.2	1,575.1	42.06	38.447		
9,300.0	7,740.0	7,273.4	7,214.3	42.7	17.6	-66.15	498.6	397.7	1,678.8	1,635.4	43.37	38.706		
9,400.0	7,740.0	7,250.0	7,193.8	43.9	17.7	-65.36	509.9	396.1	1,743.6	1,698.9	44.69	39.019		
9,500.0	7,740.0	7,250.0	7,193.8	45.2	17.7	-65.36	509.9	396.1	1,811.1	1,765.0	46.17	39.229		
9,600.0	7,740.0	7,231.9	7,177.7	46.4	17.7	-64.74	518.0	394.9	1,881.3	1,833.8	47.50	39.602		
9,700.0	7,740.0	7,220.3	7,167.3	47.7	17.8	-64.35	522.9	394.1	1,953.8	1,904.9	48.89	39.962		
9,800.0	7,740.0	7,200.0	7,148.7	49.1	17.8	-63.66	531.1	392.6	2,028.5	1,978.3	50.18	40.420		
9,900.0	7,740.0	7,200.0	7,148.7	50.4	17.8	-63.66	531.1	392.6	2,104.9	2,053.2	51.68	40.729		
10,000.0	7,740.0	7,200.0	7,148.7	51.8	17.8	-63.66	531.1	392.6	2,183.2	2,130.0	53.18	41.051		
10,100.0	7,740.0	7,200.0	7,148.7	53.2	17.8	-63.66	531.1	392.6	2,263.2	2,208.5	54.69	41.383		
10,200.0	7,740.0	7,174.7	7,125.2	54.6	17.8	-62.79	540.3	390.8	2,344.2	2,288.3	55.88	41.951		
10,300.0	7,740.0	7,150.0	7,101.9	56.1	17.9	-61.95	548.3	389.0	2,427.0	2,370.0	57.05	42.542		
10,400.0	7,740.0	7,150.0	7,101.9	57.6	17.9	-61.95	548.3	389.0	2,510.5	2,452.0	58.55	42.880		
10,500.0	7,740.0	7,150.0	7,101.9	59.0	17.9	-61.95	548.3	389.0	2,595.2	2,535.2	60.05	43.219		
10,600.0	7,740.0	7,150.0	7,101.9	60.5	17.9	-61.95	548.3	389.0	2,681.0	2,619.4	61.55	43.555		
10,700.0	7,740.0	7,150.0	7,101.9	62.0	17.9	-61.95	548.3	389.0	2,767.7	2,704.6	63.06	43.889		
10,800.0	7,740.0	7,150.0	7,101.9	63.5	17.9	-61.95	548.3	389.0	2,855.3	2,790.7	64.57	44.219		
10,900.0	7,740.0	7,150.0	7,101.9	65.1	17.9	-61.95	548.3	389.0	2,943.6	2,877.5	66.08	44.544		
11,000.0	7,740.0	7,128.0	7,080.9	66.6	17.9	-61.21	554.6	387.3	3,032.3	2,965.0	67.21	45.119		
11,100.0	7,740.0	7,123.6	7,076.7	68.2	17.9	-61.06	555.7	387.0	3,121.8	3,053.2	68.63	45.487		
11,200.0	7,740.0	7,100.0	7,053.8	69.7	17.9	-60.27	561.4	385.2	3,212.3	3,142.6	69.68	46.101		
11,300.0	7,740.0	7,100.0	7,053.8	71.3	17.9	-60.27	561.4	385.2	3,302.8	3,231.6	71.18	46.403		
11,400.0	7,740.0	7,100.0	7,053.8	72.9	17.9	-60.27	561.4	385.2	3,393.9	3,321.2	72.67	46.700		
11,500.0	7,740.0	7,100.0	7,053.8	74.5	17.9	-60.27	561.4	385.2	3,485.4	3,411.3	74.17	46.991		
11,600.0	7,740.0	7,100.0	7,053.8	76.1	17.9	-60.27	561.4	385.2	3,577.4	3,501.8	75.67	47.275		
11,700.0	7,740.0	7,100.0	7,053.8	77.7	17.9	-60.27	561.4	385.2	3,669.9	3,592.7	77.18	47.552		
11,800.0	7,740.0	7,100.0	7,053.8	79.3	17.9	-60.27	561.4	385.2	3,762.7	3,684.0	78.68	47.824		
11,900.0	7,740.0	7,100.0	7,053.8	80.9	17.9	-60.27	561.4	385.2	3,855.8	3,775.7	80.18	48.089		
12,000.0	7,740.0	7,100.0	7,053.8	82.5	17.9	-60.27	561.4	385.2	3,949.3	3,867.7	81.69	48.347		
12,100.0	7,740.0	7,100.0	7,053.8	84.2	17.9	-60.27	561.4	385.2	4,043.2	3,960.0	83.19	48.600		
12,200.0	7,740.0	7,100.0	7,053.8	85.8	17.9	-60.27	561.4	385.2	4,137.3	4,052.6	84.70	48.846		
12,300.0	7,740.0	7,100.0	7,053.8	87.4	17.9	-60.27	561.4	385.2	4,231.6	4,145.4	86.21	49.087		
12,400.0	7,740.0	7,100.0	7,053.8	89.1	17.9	-60.27	561.4	385.2	4,326.3	4,238.5	87.72	49.322		
12,500.0	7,740.0	7,100.0	7,053.8	90.7	17.9	-60.27	561.4	385.2	4,421.1	4,331.9	89.22	49.551		
12,600.0	7,740.0	7,100.0	7,053.8	92.4	17.9	-60.27	561.4	385.2	4,516.2	4,425.5	90.73	49.774		
12,700.0	7,740.0	7,076.5	7,030.8	94.0	17.9	-59.48	566.0	383.4	4,611.0	4,519.4	91.59	50.343		
12,800.0	7,740.0	7,074.5	7,028.9	95.7	17.9	-59.42	566.4	383.2	4,706.4	4,613.3	93.03	50.588		
12,900.0	7,740.0	7,072.6	7,027.0	97.3	17.9	-59.36	566.7	383.1	4,802.0	4,707.5	94.48	50.827		
13,000.0	7,740.0	7,050.0	7,004.8	99.0	17.9	-58.61	570.2	381.4	4,898.1	4,802.8	95.31	51.393		
13,100.0	7,740.0	7,050.0	7,004.8	100.7	17.9	-58.61	570.2	381.4	4,993.9	4,897.2	96.79	51.593		
13,200.0	7,740.0	7,050.0	7,004.8	102.3	17.9	-58.61	570.2	381.4	5,089.9	4,991.7	98.28	51.789		
13,300.0	7,740.0	7,050.0	7,004.8	104.0	17.9	-58.61	570.2	381.4	5,186.1	5,086.3	99.77	51.980		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2E-7H-E168 - HZ - Plan #3													Offset Site Error:	0.0 ft
Survey Program: O-Geolink MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.77	0.4	-89.8	89.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.77	0.4	-89.8	89.8	89.5	0.30	295.837		
200.0	200.0	200.0	200.0	0.3	0.3	-89.77	0.4	-89.8	89.8	89.2	0.65	137.636		
250.0	250.0	250.0	250.0	0.4	0.4	-89.77	0.4	-89.8	89.8	89.0	0.83	108.599	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	170.26	0.4	-89.8	90.1	89.1	1.00	89.896		
400.0	400.0	400.0	400.0	0.7	0.7	170.44	0.4	-89.8	91.8	90.4	1.35	67.950		
500.0	499.9	499.9	499.9	0.9	0.8	170.78	0.4	-89.8	95.2	93.5	1.70	56.037		
600.0	599.8	599.8	599.8	1.1	1.0	171.25	0.4	-89.8	100.4	98.3	2.05	49.033		
700.0	699.5	699.5	699.5	1.3	1.2	171.81	0.4	-89.8	107.3	104.9	2.39	44.798		
800.0	799.2	799.2	799.2	1.5	1.4	172.41	0.4	-89.8	115.9	113.2	2.74	42.282		
900.0	898.6	898.6	898.6	1.7	1.5	173.02	0.4	-89.8	126.3	123.2	3.09	40.906		
1,000.0	997.9	997.9	997.9	2.0	1.7	173.62	0.4	-89.8	138.4	135.0	3.43	40.328		
1,100.0	1,096.9	1,098.8	1,098.8	2.3	1.9	174.42	0.9	-89.2	151.6	147.9	3.78	40.137		
1,200.0	1,195.7	1,199.8	1,199.8	2.6	2.1	175.58	2.6	-87.1	165.4	161.2	4.12	40.109		
1,300.0	1,294.1	1,300.8	1,300.7	2.9	2.3	177.01	5.3	-83.7	179.7	175.2	4.47	40.209		
1,400.0	1,392.3	1,401.8	1,401.5	3.3	2.4	178.62	9.2	-78.9	194.6	189.8	4.82	40.408		
1,500.0	1,490.1	1,502.8	1,502.1	3.7	2.6	-179.62	14.2	-72.7	210.2	205.1	5.17	40.672		
1,600.0	1,587.5	1,603.6	1,602.5	4.1	2.9	-177.76	20.3	-65.1	226.7	221.1	5.53	40.969		
1,700.0	1,684.6	1,704.4	1,702.6	4.5	3.1	-175.85	27.6	-56.2	243.9	238.0	5.91	41.264		
1,750.0	1,732.9	1,754.7	1,752.5	4.8	3.2	-174.88	31.6	-51.3	252.9	246.8	6.11	41.392		
1,800.0	1,781.2	1,805.1	1,802.4	5.0	3.3	-172.00	35.9	-45.9	261.9	255.6	6.32	41.414		
1,900.0	1,877.8	1,906.0	1,902.3	5.5	3.6	-166.46	45.3	-34.3	279.0	272.3	6.78	41.146		
1,981.2	1,956.2	1,986.0	1,981.2	5.9	3.8	-162.28	53.3	-24.5	292.4	285.2	7.17	40.789		
2,000.0	1,974.4	2,004.5	1,999.5	6.0	3.9	-162.09	55.1	-22.2	295.4	288.2	7.26	40.693		
2,100.0	2,071.3	2,103.2	2,097.0	6.4	4.1	-161.08	64.9	-10.1	310.7	303.0	7.76	40.054		
2,181.5	2,150.7	2,183.8	2,176.6	6.7	4.4	-160.24	72.9	-0.2	322.0	313.9	8.17	39.393		
2,200.0	2,168.6	2,202.1	2,194.6	6.8	4.4	-160.05	74.7	2.1	324.5	316.2	8.27	39.241		
2,300.0	2,266.1	2,301.0	2,292.3	7.3	4.7	-159.03	84.6	14.2	337.8	329.0	8.79	38.438		
2,400.0	2,363.5	2,400.0	2,390.0	7.7	5.0	-158.10	94.4	26.4	351.3	342.0	9.32	37.682		
2,500.0	2,461.0	2,498.9	2,487.7	8.1	5.3	-157.23	104.2	38.5	364.8	354.9	9.87	36.972		
2,600.0	2,558.4	2,597.8	2,585.4	8.6	5.6	-156.42	114.0	50.6	378.4	368.0	10.42	36.307		
2,700.0	2,655.8	2,696.8	2,683.1	9.0	5.9	-155.67	123.9	62.8	392.1	381.1	10.99	35.686		
2,800.0	2,753.3	2,795.7	2,780.8	9.4	6.2	-154.97	133.7	74.9	405.8	394.3	11.56	35.107		
2,900.0	2,850.7	2,894.6	2,878.5	9.9	6.5	-154.32	143.5	87.1	419.6	407.5	12.14	34.567		
3,000.0	2,948.2	2,993.6	2,976.2	10.3	6.8	-153.71	153.4	99.2	433.4	420.7	12.72	34.064		
3,100.0	3,045.6	3,092.5	3,073.8	10.7	7.1	-153.13	163.2	111.4	447.3	434.0	13.32	33.594		
3,200.0	3,143.0	3,191.4	3,171.5	11.2	7.4	-152.59	173.0	123.5	461.3	447.3	13.91	33.155		
3,300.0	3,240.5	3,290.4	3,269.2	11.6	7.8	-152.08	182.8	135.7	475.2	460.7	14.51	32.745		
3,400.0	3,337.9	3,389.3	3,366.9	12.0	8.1	-151.61	192.7	147.8	489.2	474.1	15.12	32.361		
3,500.0	3,435.3	3,488.2	3,464.6	12.5	8.4	-151.15	202.5	159.9	503.2	487.5	15.73	32.001		
3,600.0	3,532.8	3,587.2	3,562.3	12.9	8.7	-150.72	212.3	172.1	517.3	501.0	16.34	31.664		
3,700.0	3,630.2	3,686.1	3,660.0	13.3	9.0	-150.32	222.1	184.2	531.4	514.4	16.95	31.348		
3,800.0	3,727.7	3,785.0	3,757.7	13.8	9.3	-149.94	232.0	196.4	545.5	527.9	17.57	31.050		
3,900.0	3,825.1	3,884.0	3,855.4	14.2	9.6	-149.57	241.8	208.5	559.6	541.4	18.19	30.770		
4,000.0	3,922.5	3,982.9	3,953.1	14.6	10.0	-149.22	251.6	220.7	573.8	555.0	18.81	30.506		
4,100.0	4,020.0	4,081.8	4,050.8	15.1	10.3	-148.89	261.4	232.8	588.0	568.5	19.43	30.257		
4,200.0	4,117.4	4,180.8	4,148.5	15.5	10.6	-148.58	271.3	244.9	602.2	582.1	20.06	30.022		
4,300.0	4,214.9	4,279.7	4,246.2	16.0	10.9	-148.28	281.1	257.1	616.4	595.7	20.68	29.799		
4,400.0	4,312.3	4,378.7	4,343.9	16.4	11.2	-147.99	290.9	269.2	630.6	609.3	21.31	29.588		
4,500.0	4,409.7	4,477.6	4,441.6	16.8	11.6	-147.72	300.8	281.4	644.8	622.9	21.94	29.388		
4,600.0	4,507.2	4,576.5	4,539.2	17.3	11.9	-147.45	310.6	293.5	659.1	636.5	22.57	29.199		
4,700.0	4,604.6	4,675.5	4,636.9	17.7	12.2	-147.20	320.4	305.7	673.4	650.2	23.20	29.018		

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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		
4,800.0	4,702.0	4,774.4	4,734.6	18.1	12.5	-146.96	330.2	317.8	687.6	663.8	23.84	28.847		
4,900.0	4,799.5	4,873.3	4,832.3	18.6	12.8	-146.73	340.1	330.0	701.9	677.5	24.47	28.683		
5,000.0	4,896.9	4,972.3	4,930.0	19.0	13.2	-146.51	349.9	342.1	716.2	691.1	25.11	28.528		
5,100.0	4,994.4	5,071.2	5,027.7	19.4	13.5	-146.30	359.7	354.2	730.5	704.8	25.74	28.379		
5,200.0	5,091.8	5,170.1	5,125.4	19.9	13.8	-146.09	369.5	366.4	744.9	718.5	26.38	28.237		
5,300.0	5,189.2	5,269.1	5,223.1	20.3	14.1	-145.89	379.4	378.5	759.2	732.2	27.02	28.102		
5,400.0	5,286.7	5,368.0	5,320.8	20.8	14.4	-145.70	389.2	390.7	773.5	745.9	27.65	27.972		
5,500.0	5,384.1	5,466.9	5,418.5	21.2	14.8	-145.52	399.0	402.8	787.9	759.6	28.29	27.848		
5,600.0	5,481.6	5,565.9	5,516.2	21.6	15.1	-145.35	408.8	415.0	802.2	773.3	28.93	27.729		
5,700.0	5,579.0	5,664.8	5,613.9	22.1	15.4	-145.18	418.7	427.1	816.6	787.0	29.57	27.615		
5,800.0	5,676.4	5,763.7	5,711.6	22.5	15.7	-145.01	428.5	439.3	831.0	800.8	30.21	27.505		
5,900.0	5,773.9	5,862.7	5,809.3	22.9	16.0	-144.85	438.3	451.4	845.3	814.5	30.85	27.400		
6,000.0	5,871.3	5,961.6	5,907.0	23.4	16.4	-144.70	448.2	463.5	859.7	828.2	31.49	27.299		
6,100.0	5,968.7	6,060.5	6,004.7	23.8	16.7	-144.55	458.0	475.7	874.1	842.0	32.13	27.202		
6,200.0	6,066.2	6,159.5	6,102.3	24.3	17.0	-144.41	467.8	487.8	888.5	855.7	32.78	27.108		
6,300.0	6,163.6	6,258.4	6,200.0	24.7	17.3	-144.27	477.6	500.0	902.9	869.5	33.42	27.018		
6,400.0	6,261.1	6,357.3	6,297.7	25.1	17.7	-144.13	487.5	512.1	917.3	883.2	34.06	26.931		
6,500.0	6,358.5	6,456.3	6,395.4	25.6	18.0	-144.00	497.3	524.3	931.7	897.0	34.70	26.848		
6,600.0	6,455.9	6,555.2	6,493.1	26.0	18.3	-143.88	507.1	536.4	946.1	910.8	35.35	26.767		
6,700.0	6,553.4	6,654.1	6,590.8	26.5	18.6	-143.75	516.9	548.5	960.5	924.5	35.99	26.689		
6,800.0	6,650.8	6,753.1	6,688.5	26.9	18.9	-143.63	526.8	560.7	975.0	938.3	36.63	26.613		
6,900.0	6,748.3	6,852.0	6,786.2	27.3	19.3	-143.52	536.6	572.8	989.4	952.1	37.28	26.540		
7,000.0	6,845.7	6,951.0	6,883.9	27.8	19.6	-143.41	546.4	585.0	1,003.8	965.9	37.92	26.470		
7,100.0	6,943.1	7,049.9	6,981.6	28.2	19.9	-143.30	556.2	597.1	1,018.2	979.7	38.57	26.402 SF		
7,200.0	7,040.6	7,148.8	7,074.0	28.6	20.7	-143.19	566.0	608.9	1,032.6	993.9	39.22	26.337		
7,300.0	7,138.0	7,246.8	7,174.0	29.1	20.7	-143.08	575.8	620.7	1,047.0	1,008.0	39.87	26.272		
7,341.8	7,178.7	7,287.1	7,214.0	29.3	20.7	-142.97	585.6	632.5	1,061.2	1,022.0	40.52	26.207		
7,350.0	7,186.7	7,295.1	7,222.0	29.3	20.7	-142.86	587.5	634.4	1,063.1	1,023.9	40.61	26.198		
7,400.0	7,235.4	7,343.8	7,270.0	29.5	20.7	-142.75	597.3	646.2	1,077.3	1,037.1	41.26	26.133		
7,450.0	7,283.6	7,392.2	7,318.0	29.7	20.7	-142.64	607.1	658.0	1,091.5	1,051.3	41.91	26.068		
7,500.0	7,331.0	7,440.6	7,366.0	29.9	20.7	-142.53	616.9	669.8	1,105.7	1,065.5	42.56	26.003		
7,550.0	7,377.4	7,488.0	7,414.0	30.1	20.6	-142.42	626.7	681.6	1,119.9	1,079.7	43.21	25.938		
7,600.0	7,422.2	7,533.4	7,458.0	30.3	20.5	-142.31	636.5	693.4	1,134.1	1,093.9	43.86	25.873		
7,650.0	7,465.2	7,578.8	7,503.0	30.5	20.5	-142.20	646.3	705.2	1,148.3	1,108.1	44.51	25.808		
7,700.0	7,506.0	7,620.6	7,545.0	30.7	20.4	-142.09	656.1	716.9	1,162.5	1,122.3	45.16	25.743		
7,711.8	7,515.3	7,630.9	7,555.0	30.8	20.4	-142.00	658.0	718.8	1,164.4	1,124.2	45.25	25.734		
7,750.0	7,544.4	7,659.8	7,584.0	30.9	20.3	-141.89	667.8	730.6	1,178.6	1,138.4	45.90	25.669		
7,800.0	7,580.0	7,695.2	7,620.0	31.1	20.3	-141.78	677.6	742.4	1,192.8	1,152.6	46.55	25.604		
7,850.0	7,612.6	7,727.8	7,652.0	31.3	20.2	-141.67	687.5	754.2	1,207.0	1,166.8	47.20	25.539		
7,900.0	7,641.9	7,757.1	7,682.0	31.5	20.2	-141.56	697.3	766.0	1,221.2	1,181.0	47.85	25.474		
7,950.0	7,667.7	7,792.4	7,720.6	31.7	20.2	-98.96	707.1	777.8	1,235.4	1,195.2	48.50	25.409		
8,000.0	7,689.8	7,807.7	7,732.0	32.0	20.1	-96.05	716.9	789.6	1,249.6	1,209.4	49.15	25.344		
8,050.0	7,708.0	7,826.9	7,751.0	32.2	20.1	-93.30	726.7	801.4	1,263.8	1,223.6	49.80	25.279		
8,100.0	7,722.3	7,841.2	7,689.9	32.4	20.2	-90.72	736.5	813.2	1,278.0	1,237.8	50.45	25.214		
8,150.0	7,732.4	7,869.8	7,676.9	32.7	20.2	-88.27	746.3	825.0	1,292.2	1,252.0	51.10	25.149		
8,200.0	7,738.3	7,840.2	7,662.8	33.0	20.2	-86.01	756.1	836.8	1,306.4	1,266.2	51.75	25.084		
8,244.9	7,740.0	7,813.9	7,649.1	33.2	20.2	-84.15	765.9	848.6	1,320.6	1,280.4	52.40	25.019		
8,300.0	7,740.0	7,782.9	7,631.8	33.5	20.3	-83.07	775.7	860.4	1,334.8	1,294.6	53.05	24.954		
8,400.0	7,740.0	7,732.5	7,600.7	34.1	20.3	-81.17	785.5	872.2	1,349.0	1,308.8	53.70	24.889		
8,500.0	7,740.0	7,688.8	7,571.0	34.8	20.4	-79.40	795.3	884.0	1,363.2	1,323.0	54.35	24.824		
8,600.0	7,740.0	7,650.0	7,542.8	35.6	20.5	-77.75	805.1	895.8	1,377.4	1,337.2	55.00	24.759		
8,700.0	7,740.0	7,618.4	7,518.5	36.5	20.5	-76.36	814.9	907.6	1,391.6	1,351.4	55.65	24.694		

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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		
8,800.0	7,740.0	7,600.0	7,503.8	37.4	20.5	-75.53	468.4	671.9	1,116.1	1,077.9	38.25	29.180		
8,900.0	7,740.0	7,565.2	7,475.2	38.3	20.6	-73.95	487.5	666.8	1,171.2	1,131.7	39.55	29.612		
9,000.0	7,740.0	7,550.0	7,462.4	39.4	20.6	-73.25	495.3	664.5	1,231.1	1,190.1	40.94	30.068		
9,100.0	7,740.0	7,524.2	7,440.1	40.4	20.6	-72.06	507.8	660.7	1,295.1	1,252.8	42.27	30.641		
9,200.0	7,740.0	7,500.0	7,418.7	41.6	20.7	-70.94	518.5	657.2	1,362.9	1,319.3	43.59	31.269		
9,300.0	7,740.0	7,500.0	7,418.7	42.7	20.7	-70.94	518.5	657.2	1,433.9	1,388.8	45.10	31.796		
9,400.0	7,740.0	7,478.4	7,399.3	43.9	20.7	-69.94	527.3	654.0	1,507.7	1,461.3	46.42	32.482		
9,500.0	7,740.0	7,450.0	7,373.2	45.2	20.7	-68.62	537.8	649.8	1,584.5	1,536.8	47.65	33.255		
9,600.0	7,740.0	7,450.0	7,373.2	46.4	20.7	-68.62	537.8	649.8	1,662.9	1,613.8	49.17	33.817		
9,700.0	7,740.0	7,450.0	7,373.2	47.7	20.7	-68.62	537.8	649.8	1,743.6	1,692.9	50.71	34.383		
9,800.0	7,740.0	7,450.0	7,373.2	49.1	20.7	-68.62	537.8	649.8	1,826.2	1,773.9	52.26	34.946		
9,900.0	7,740.0	7,427.6	7,352.3	50.4	20.7	-67.59	545.1	646.6	1,909.9	1,856.4	53.50	35.698		
10,000.0	7,740.0	7,419.9	7,345.0	51.8	20.7	-67.24	547.4	645.5	1,995.2	1,940.3	54.94	36.318		
10,100.0	7,740.0	7,400.0	7,326.1	53.2	20.7	-66.33	553.0	642.6	2,081.9	2,025.7	56.18	37.057		
10,200.0	7,740.0	7,400.0	7,326.1	54.6	20.7	-66.33	553.0	642.6	2,169.3	2,111.6	57.73	37.580		
10,300.0	7,740.0	7,400.0	7,326.1	56.1	20.7	-66.33	553.0	642.6	2,257.8	2,198.6	59.27	38.091		
10,400.0	7,740.0	7,400.0	7,326.1	57.6	20.7	-66.33	553.0	642.6	2,347.3	2,286.4	60.83	38.588		
10,500.0	7,740.0	7,400.0	7,326.1	59.0	20.7	-66.33	553.0	642.6	2,437.5	2,375.1	62.39	39.072		
10,600.0	7,740.0	7,400.0	7,326.1	60.5	20.7	-66.33	553.0	642.6	2,528.5	2,464.5	63.95	39.541		
10,700.0	7,740.0	7,400.0	7,326.1	62.0	20.7	-66.33	553.0	642.6	2,620.1	2,554.6	65.51	39.996		
10,800.0	7,740.0	7,375.8	7,302.9	63.5	20.7	-65.23	558.8	639.1	2,711.7	2,645.2	66.58	40.729		
10,900.0	7,740.0	7,371.7	7,299.0	65.1	20.7	-65.05	559.7	638.6	2,804.3	2,736.2	68.05	41.209		
11,000.0	7,740.0	7,350.0	7,277.9	66.6	20.7	-64.09	564.0	635.5	2,897.6	2,828.5	69.12	41.920		
11,100.0	7,740.0	7,350.0	7,277.9	68.2	20.7	-64.09	564.0	635.5	2,990.9	2,920.3	70.67	42.324		
11,200.0	7,740.0	7,350.0	7,277.9	69.7	20.7	-64.09	564.0	635.5	3,084.7	3,012.5	72.21	42.715		
11,300.0	7,740.0	7,350.0	7,277.9	71.3	20.7	-64.09	564.0	635.5	3,178.8	3,105.0	73.76	43.095		
11,400.0	7,740.0	7,350.0	7,277.9	72.9	20.7	-64.09	564.0	635.5	3,273.3	3,198.0	75.31	43.462		
11,500.0	7,740.0	7,350.0	7,277.9	74.5	20.7	-64.09	564.0	635.5	3,368.1	3,291.2	76.87	43.817		
11,600.0	7,740.0	7,350.0	7,277.9	76.1	20.7	-64.09	564.0	635.5	3,463.2	3,384.7	78.42	44.162		
11,700.0	7,740.0	7,350.0	7,277.9	77.7	20.7	-64.09	564.0	635.5	3,558.5	3,478.5	79.97	44.496		
11,800.0	7,740.0	7,350.0	7,277.9	79.3	20.7	-64.09	564.0	635.5	3,654.1	3,572.6	81.53	44.819		
11,900.0	7,740.0	7,350.0	7,277.9	80.9	20.7	-64.09	564.0	635.5	3,750.0	3,666.9	83.09	45.133		
12,000.0	7,740.0	7,350.0	7,277.9	82.5	20.7	-64.09	564.0	635.5	3,846.0	3,761.4	84.64	45.437		
12,100.0	7,740.0	7,350.0	7,277.9	84.2	20.7	-64.09	564.0	635.5	3,942.2	3,856.0	86.20	45.732		
12,200.0	7,740.0	7,350.0	7,277.9	85.8	20.7	-64.09	564.0	635.5	4,038.7	3,950.9	87.76	46.018		
12,300.0	7,740.0	7,350.0	7,277.9	87.4	20.7	-64.09	564.0	635.5	4,135.3	4,045.9	89.32	46.295		
12,400.0	7,740.0	7,350.0	7,277.9	89.1	20.7	-64.09	564.0	635.5	4,232.0	4,141.1	90.89	46.564		
12,500.0	7,740.0	7,350.0	7,277.9	90.7	20.7	-64.09	564.0	635.5	4,328.9	4,236.5	92.45	46.826		
12,600.0	7,740.0	7,350.0	7,277.9	92.4	20.7	-64.09	564.0	635.5	4,426.0	4,331.9	94.01	47.079		
12,700.0	7,740.0	7,326.8	7,255.2	94.0	20.6	-63.07	567.6	632.3	4,522.6	4,427.8	94.80	47.705		
12,800.0	7,740.0	7,325.3	7,253.7	95.7	20.6	-63.00	567.8	632.1	4,619.8	4,523.5	96.30	47.973		
12,900.0	7,740.0	7,323.8	7,252.2	97.3	20.6	-62.94	568.0	631.8	4,717.2	4,619.4	97.80	48.233		
13,000.0	7,740.0	7,322.3	7,250.8	99.0	20.6	-62.87	568.2	631.6	4,814.6	4,715.3	99.30	48.487		
13,100.0	7,740.0	7,300.0	7,228.8	100.7	20.6	-61.92	570.7	628.6	4,912.5	4,812.5	100.04	49.107		
13,200.0	7,740.0	7,300.0	7,228.8	102.3	20.6	-61.92	570.7	628.6	5,010.1	4,908.5	101.57	49.325		
13,300.0	7,740.0	7,300.0	7,228.8	104.0	20.6	-61.92	570.7	628.6	5,107.8	5,004.7	103.11	49.537		
13,400.0	7,740.0	7,300.0	7,228.8	105.7	20.6	-61.92	570.7	628.6	5,205.5	5,100.9	104.65	49.743		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft		
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft		
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.74	0.4	-79.8	79.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.74	0.4	-79.8	79.8	79.5	0.30	262.660		
200.0	200.0	200.0	200.0	0.3	0.3	-89.74	0.4	-79.8	79.8	79.1	0.65	122.200		
250.0	250.0	250.0	250.0	0.4	0.4	-89.74	0.4	-79.8	79.8	78.9	0.83	96.419	CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	170.29	0.4	-79.8	80.0	79.0	1.00	79.838		
400.0	400.0	401.3	401.3	0.7	0.7	170.76	0.7	-78.9	80.9	79.5	1.35	59.788		
500.0	499.9	502.6	502.5	0.9	0.9	171.94	1.8	-76.5	81.9	80.2	1.70	48.067		
600.0	599.8	603.8	603.7	1.1	1.0	173.79	3.6	-72.4	83.2	81.1	2.06	40.422		
700.0	699.5	705.1	704.7	1.3	1.2	176.27	6.2	-66.7	84.7	82.3	2.41	35.091		
800.0	799.2	806.2	805.6	1.5	1.5	179.31	9.4	-59.3	86.7	83.9	2.78	31.210		
900.0	898.6	907.3	906.2	1.7	1.7	-177.15	13.4	-50.4	89.2	86.0	3.15	28.297		
1,000.0	997.9	1,008.3	1,006.5	2.0	1.9	-173.24	18.1	-39.8	92.4	88.8	3.54	26.058		
1,100.0	1,096.9	1,109.2	1,106.6	2.3	2.2	-169.05	23.4	-27.6	96.4	92.5	3.97	24.295		
1,200.0	1,195.7	1,210.0	1,206.2	2.6	2.5	-164.72	29.5	-13.8	101.4	97.0	4.44	22.873		
1,300.0	1,294.1	1,310.7	1,305.5	2.9	2.8	-160.38	36.3	1.6	107.6	102.6	4.96	21.702		
1,400.0	1,392.3	1,411.2	1,404.3	3.3	3.2	-156.12	43.8	18.5	114.9	109.3	5.54	20.721		
1,500.0	1,490.1	1,511.3	1,502.3	3.7	3.6	-152.09	51.9	36.8	123.5	117.3	6.20	19.920		
1,600.0	1,587.5	1,610.5	1,599.4	4.1	3.9	-148.80	60.2	55.5	133.8	127.0	6.89	19.437		
1,700.0	1,684.6	1,709.6	1,696.3	4.5	4.3	-146.36	68.4	74.0	146.0	138.4	7.60	19.224		
1,750.0	1,732.9	1,759.0	1,744.8	4.8	4.5	-145.41	72.5	83.3	152.7	144.8	7.95	19.200		
1,800.0	1,781.2	1,808.5	1,793.2	5.0	4.7	-142.77	76.6	92.6	159.5	151.2	8.33	19.156		
1,900.0	1,877.8	1,907.7	1,890.3	5.5	5.1	-137.99	84.8	111.2	172.3	163.2	9.08	18.979		
1,981.2	1,956.2	1,988.3	1,969.1	5.9	5.4	-134.52	91.5	126.4	181.8	172.2	9.69	18.772		
2,000.0	1,974.4	2,007.0	1,987.5	6.0	5.5	-134.48	93.1	129.9	184.0	174.1	9.83	18.722		
2,100.0	2,071.3	2,106.4	2,084.8	6.4	5.9	-134.07	101.3	148.5	194.5	183.9	10.56	18.407		
2,181.5	2,150.7	2,187.6	2,164.2	6.7	6.2	-133.49	108.1	163.8	202.1	191.0	11.18	18.080		
2,200.0	2,168.6	2,206.0	2,182.2	6.8	6.3	-133.33	109.6	167.2	203.8	192.5	11.32	18.000		
2,300.0	2,266.1	2,305.5	2,279.6	7.3	6.7	-132.49	117.8	185.9	212.8	200.7	12.09	17.595		
2,400.0	2,363.5	2,405.1	2,377.1	7.7	7.0	-131.72	126.1	204.6	221.8	208.9	12.87	17.235		
2,500.0	2,461.0	2,504.6	2,474.5	8.1	7.4	-131.01	134.4	223.2	230.8	217.2	13.65	16.912		
2,600.0	2,558.4	2,604.2	2,571.9	8.6	7.8	-130.36	142.6	241.9	239.9	225.5	14.43	16.623		
2,700.0	2,655.8	2,703.7	2,669.3	9.0	8.2	-129.75	150.9	260.6	249.0	233.8	15.22	16.362		
2,800.0	2,753.3	2,803.3	2,766.8	9.4	8.6	-129.19	159.1	279.3	258.2	242.2	16.01	16.125		
2,900.0	2,850.7	2,902.8	2,864.2	9.9	9.0	-128.66	167.4	298.0	267.3	250.5	16.80	15.910		
3,000.0	2,948.2	3,002.4	2,961.6	10.3	9.4	-128.17	175.7	316.6	276.5	258.9	17.60	15.714		
3,100.0	3,045.6	3,101.9	3,059.1	10.7	9.8	-127.71	183.9	335.3	285.7	267.3	18.39	15.535		
3,200.0	3,143.0	3,201.5	3,156.5	11.2	10.2	-127.28	192.2	354.0	295.0	275.8	19.19	15.370		
3,300.0	3,240.5	3,301.0	3,253.9	11.6	10.6	-126.87	200.5	372.7	304.2	284.2	19.99	15.218		
3,400.0	3,337.9	3,400.6	3,351.4	12.0	11.0	-126.49	208.7	391.4	313.4	292.7	20.79	15.078		
3,500.0	3,435.3	3,500.1	3,448.8	12.5	11.4	-126.13	217.0	410.1	322.7	301.1	21.59	14.948		
3,600.0	3,532.8	3,599.7	3,546.2	12.9	11.8	-125.79	225.2	428.7	332.0	309.6	22.39	14.828		
3,700.0	3,630.2	3,699.2	3,643.7	13.3	12.2	-125.47	233.5	447.4	341.3	318.1	23.19	14.715		
3,800.0	3,727.7	3,798.8	3,741.1	13.8	12.6	-125.17	241.8	466.1	350.6	326.6	23.99	14.611		
3,900.0	3,825.1	3,898.3	3,838.5	14.2	13.0	-124.88	250.0	484.8	359.9	335.1	24.80	14.513		
4,000.0	3,922.5	3,997.9	3,936.0	14.6	13.4	-124.61	258.3	503.5	369.2	343.6	25.60	14.421		
4,100.0	4,020.0	4,097.4	4,033.4	15.1	13.8	-124.35	266.5	522.1	378.5	352.1	26.40	14.336		
4,200.0	4,117.4	4,197.0	4,130.8	15.5	14.2	-124.10	274.8	540.8	387.8	360.6	27.21	14.255		
4,300.0	4,214.9	4,296.5	4,228.3	16.0	14.6	-123.86	283.1	559.5	397.2	369.2	28.01	14.179		
4,400.0	4,312.3	4,396.1	4,325.7	16.4	15.0	-123.64	291.3	578.2	406.5	377.7	28.82	14.107		
4,500.0	4,409.7	4,495.6	4,423.1	16.8	15.4	-123.42	299.6	596.9	415.9	386.2	29.62	14.039		
4,600.0	4,507.2	4,595.2	4,520.6	17.3	15.8	-123.22	307.8	615.5	425.2	394.8	30.43	13.975		
4,700.0	4,604.6	4,694.7	4,618.0	17.7	16.2	-123.02	316.1	634.2	434.6	403.4	31.23	13.914		

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2												Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
4,800.0	4,702.0	4,794.3	4,715.4	18.1	16.6	-122.83	324.4	652.9	444.0	411.9	32.04	13.857	
4,900.0	4,799.5	4,893.8	4,812.9	18.6	17.0	-122.65	332.6	671.6	453.3	420.5	32.84	13.802	
5,000.0	4,896.9	4,993.4	4,910.3	19.0	17.4	-122.48	340.9	690.3	462.7	429.0	33.65	13.750	
5,100.0	4,994.4	5,092.9	5,007.7	19.4	17.8	-122.31	349.2	709.0	472.1	437.6	34.46	13.701	
5,200.0	5,091.8	5,192.5	5,105.1	19.9	18.2	-122.15	357.4	727.6	481.5	446.2	35.26	13.654	
5,300.0	5,189.2	5,292.0	5,202.6	20.3	18.6	-122.00	365.7	746.3	490.8	454.8	36.07	13.609	
5,400.0	5,286.7	5,391.6	5,300.0	20.8	19.0	-121.85	373.9	765.0	500.2	463.4	36.87	13.566	
5,500.0	5,384.1	5,491.1	5,397.4	21.2	19.4	-121.71	382.2	783.7	509.6	471.9	37.68	13.524	
5,600.0	5,481.6	5,590.7	5,494.9	21.6	19.8	-121.57	390.5	802.4	519.0	480.5	38.49	13.485	
5,700.0	5,579.0	5,690.2	5,592.3	22.1	20.2	-121.44	398.7	821.0	528.4	489.1	39.29	13.448	
5,800.0	5,676.4	5,789.8	5,689.7	22.5	20.6	-121.31	407.0	839.7	537.8	497.7	40.10	13.411	
5,900.0	5,773.9	5,889.3	5,787.2	22.9	21.0	-121.19	415.2	858.4	547.2	506.3	40.91	13.377	
6,000.0	5,871.3	5,988.9	5,884.6	23.4	21.4	-121.07	423.5	877.1	556.6	514.9	41.71	13.344	
6,100.0	5,968.7	6,088.4	5,982.0	23.8	21.8	-120.95	431.8	895.8	566.0	523.5	42.52	13.312	
6,200.0	6,066.2	6,188.0	6,079.5	24.3	22.2	-120.84	440.0	914.4	575.4	532.1	43.33	13.281	
6,300.0	6,163.6	6,287.5	6,176.9	24.7	22.6	-120.73	448.3	933.1	584.8	540.7	44.14	13.251	
6,400.0	6,261.1	6,387.1	6,274.3	25.1	23.0	-120.63	456.5	951.8	594.3	549.3	44.94	13.223	
6,500.0	6,358.5	6,486.6	6,371.8	25.6	23.5	-120.53	464.8	970.5	603.7	557.9	45.75	13.195	
6,600.0	6,455.9	6,586.2	6,469.2	26.0	23.9	-120.43	473.1	989.2	613.1	566.5	46.56	13.169	
6,700.0	6,553.4	6,685.7	6,566.6	26.5	24.3	-120.34	481.3	1,007.9	622.5	575.2	47.36	13.143	
6,800.0	6,650.8	6,785.3	6,664.1	26.9	24.7	-120.24	489.6	1,026.5	631.9	583.8	48.17	13.119	
6,900.0	6,748.3	6,884.8	6,761.5	27.3	25.1	-120.15	497.9	1,045.2	641.4	592.4	48.98	13.095	
7,000.0	6,845.7	6,984.4	6,858.9	27.8	25.5	-120.07	506.1	1,063.9	650.8	601.0	49.78	13.072	
7,100.0	6,943.1	7,054.5	7,000.0	28.2	26.5	-119.92	-52.4	1,186.8	598.5	572.1	26.36	22.702	
7,200.0	7,040.6	7,161.8	7,500.0	28.6	26.5	179.55	-59.7	1,186.8	519.1	492.5	26.61	19.512	
7,300.0	7,138.0	7,963.6	7,500.0	29.1	26.5	179.23	-61.5	1,186.8	448.1	421.3	26.81	16.717	
7,341.8	7,178.7	7,964.1	7,500.0	29.3	26.5	179.16	-61.9	1,186.8	422.0	395.1	26.89	15.694	
7,350.0	7,186.7	7,964.0	7,500.0	29.3	26.5	-177.87	-61.9	1,186.8	417.1	390.2	26.95	15.480	
7,400.0	7,235.4	7,959.9	7,500.0	29.5	26.5	-160.01	-57.7	1,186.8	390.1	362.8	27.29	14.293	
7,450.0	7,283.6	7,950.7	7,499.8	29.7	26.5	-145.22	-48.6	1,186.8	368.0	340.6	27.44	13.412	
7,500.0	7,331.0	7,938.2	7,499.4	29.9	26.5	-134.00	-36.1	1,186.7	351.7	324.3	27.36	12.852	
7,550.0	7,377.4	7,923.4	7,498.6	30.1	26.4	-125.17	-21.3	1,186.5	341.7	314.5	27.20	12.562	
7,600.0	7,422.2	7,906.8	7,497.2	30.3	26.4	-117.65	-4.7	1,186.3	338.4	311.3	27.15	12.466	
7,600.3	7,422.4	7,906.7	7,497.2	30.3	26.4	-117.62	-4.6	1,186.3	338.4	311.3	27.15	12.465 SF	
7,650.0	7,465.2	7,888.9	7,495.1	30.5	26.4	-110.78	13.1	1,185.9	341.5	314.1	27.38	12.472	
7,700.0	7,506.0	7,870.0	7,492.4	30.7	26.4	-104.21	31.8	1,185.4	350.5	322.5	27.98	12.528	
7,750.0	7,544.4	7,850.0	7,488.8	30.9	26.4	-97.75	51.4	1,184.7	364.4	335.5	28.98	12.576	
7,800.0	7,580.0	7,830.0	7,484.6	31.1	26.3	-91.50	71.0	1,183.9	382.4	352.3	30.09	12.707	
7,850.0	7,612.6	7,809.1	7,479.5	31.3	26.3	-85.40	91.1	1,182.9	403.3	372.1	31.13	12.955	
7,900.0	7,641.9	7,787.9	7,473.5	31.5	26.3	-79.57	111.5	1,181.7	426.2	394.4	31.84	13.387	
7,950.0	7,667.7	7,766.3	7,466.7	31.7	26.3	-74.11	131.9	1,180.4	450.5	418.5	32.06	14.055	
8,000.0	7,689.8	7,750.0	7,461.1	32.0	26.3	-69.57	147.2	1,179.4	475.6	443.9	31.66	15.019	
8,050.0	7,708.0	7,722.3	7,450.6	32.2	26.3	-64.58	172.7	1,177.3	500.7	469.8	30.85	16.230	
8,100.0	7,722.3	7,700.0	7,441.2	32.4	26.3	-60.57	192.9	1,175.5	525.6	496.0	29.54	17.790	
8,150.0	7,732.4	7,677.5	7,431.0	32.7	26.3	-57.06	212.8	1,173.6	549.9	522.0	27.94	19.680	
8,200.0	7,738.3	7,650.0	7,417.4	33.0	26.3	-53.81	236.6	1,171.0	573.4	547.2	26.18	21.898	
8,244.9	7,740.0	7,634.5	7,409.3	33.2	26.3	-51.71	249.8	1,169.4	593.5	568.7	24.72	24.005	
8,300.0	7,740.0	7,600.0	7,390.0	33.5	26.3	-50.35	278.1	1,165.7	618.8	593.9	24.96	24.790	
8,400.0	7,740.0	7,569.2	7,371.4	34.1	26.3	-49.12	302.4	1,162.2	669.6	643.9	25.67	26.086	
8,500.0	7,740.0	7,532.7	7,347.7	34.8	26.3	-47.64	329.8	1,157.6	726.6	700.3	26.33	27.595	
8,600.0	7,740.0	7,500.0	7,325.1	35.6	26.3	-46.32	353.0	1,153.3	789.0	761.9	27.03	29.193	
8,700.0	7,740.0	7,470.9	7,303.9	36.5	26.3	-45.15	372.5	1,149.2	856.0	828.3	27.75	30.847	

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

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2F-7H-E168 - HZ - Plan #2													Offset Site Error: 0.0 ft	
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,740.0	7,450.0	7,288.1	37.4	26.3	-44.32	385.8	1,146.2	927.1	898.5	28.56	32.463		
8,900.0	7,740.0	7,421.4	7,265.7	38.3	26.3	-43.21	403.1	1,141.9	1,001.5	972.3	29.26	34.226		
9,000.0	7,740.0	7,400.0	7,248.4	39.4	26.3	-42.40	415.2	1,138.6	1,079.0	1,048.9	30.04	35.916		
9,100.0	7,740.0	7,381.5	7,233.1	40.4	26.3	-41.71	425.2	1,135.6	1,158.9	1,128.0	30.84	37.572		
9,200.0	7,740.0	7,350.0	7,206.4	41.6	26.3	-40.56	441.0	1,130.5	1,241.2	1,209.7	31.45	39.468		
9,300.0	7,740.0	7,350.0	7,206.4	42.7	26.3	-40.56	441.0	1,130.5	1,324.8	1,292.3	32.49	40.771		
9,400.0	7,740.0	7,350.0	7,206.4	43.9	26.3	-40.56	441.0	1,130.5	1,410.6	1,377.1	33.55	42.044		
9,500.0	7,740.0	7,322.0	7,181.9	45.2	26.2	-39.58	453.8	1,125.8	1,497.2	1,463.1	34.15	43.840		
9,600.0	7,740.0	7,300.0	7,162.3	46.4	26.2	-38.83	463.0	1,122.1	1,585.5	1,550.6	34.83	45.517		
9,700.0	7,740.0	7,300.0	7,162.3	47.7	26.2	-38.83	463.0	1,122.1	1,674.5	1,638.6	35.87	46.679		
9,800.0	7,740.0	7,300.0	7,162.3	49.1	26.2	-38.83	463.0	1,122.1	1,764.7	1,727.8	36.92	47.799		
9,900.0	7,740.0	7,280.3	7,144.4	50.4	26.2	-38.19	470.5	1,118.6	1,855.5	1,817.9	37.60	49.353		
10,000.0	7,740.0	7,271.8	7,136.6	51.8	26.2	-37.91	473.6	1,117.1	1,947.1	1,908.7	38.47	50.610		
10,100.0	7,740.0	7,250.0	7,116.5	53.2	26.2	-37.23	481.0	1,113.3	2,039.6	2,000.5	39.08	52.191		
10,200.0	7,740.0	7,250.0	7,116.5	54.6	26.2	-37.23	481.0	1,113.3	2,132.3	2,092.2	40.11	53.166		
10,300.0	7,740.0	7,250.0	7,116.5	56.1	26.2	-37.23	481.0	1,113.3	2,225.6	2,184.5	41.14	54.103		
10,400.0	7,740.0	7,250.0	7,116.5	57.6	26.2	-37.23	481.0	1,113.3	2,319.5	2,277.3	42.17	55.005		
10,500.0	7,740.0	7,250.0	7,116.5	59.0	26.2	-37.23	481.0	1,113.3	2,413.9	2,370.6	43.20	55.871		
10,600.0	7,740.0	7,250.0	7,116.5	60.5	26.2	-37.23	481.0	1,113.3	2,508.7	2,464.4	44.24	56.704		
10,700.0	7,740.0	7,226.6	7,094.5	62.0	26.1	-36.52	487.9	1,109.1	2,603.3	2,558.5	44.72	58.208		
10,800.0	7,740.0	7,221.7	7,089.9	63.5	26.1	-36.37	489.3	1,108.2	2,698.5	2,652.9	45.63	59.141		
10,900.0	7,740.0	7,200.0	7,069.3	65.1	26.1	-35.74	494.8	1,104.2	2,794.4	2,748.3	46.13	60.582		
11,000.0	7,740.0	7,200.0	7,069.3	66.6	26.1	-35.74	494.8	1,104.2	2,890.1	2,842.9	47.14	61.314		
11,100.0	7,740.0	7,200.0	7,069.3	68.2	26.1	-35.74	494.8	1,104.2	2,986.0	2,937.9	48.15	62.020		
11,200.0	7,740.0	7,200.0	7,069.3	69.7	26.1	-35.74	494.8	1,104.2	3,082.3	3,033.1	49.16	62.700		
11,300.0	7,740.0	7,200.0	7,069.3	71.3	26.1	-35.74	494.8	1,104.2	3,178.7	3,128.5	50.17	63.356		
11,400.0	7,740.0	7,200.0	7,069.3	72.9	26.1	-35.74	494.8	1,104.2	3,275.4	3,224.2	51.19	63.988		
11,500.0	7,740.0	7,200.0	7,069.3	74.5	26.1	-35.74	494.8	1,104.2	3,372.2	3,320.0	52.20	64.599		
11,600.0	7,740.0	7,200.0	7,069.3	76.1	26.1	-35.74	494.8	1,104.2	3,469.3	3,416.0	53.22	65.188		
11,700.0	7,740.0	7,200.0	7,069.3	77.7	26.1	-35.74	494.8	1,104.2	3,566.5	3,512.2	54.24	65.757		
11,800.0	7,740.0	7,200.0	7,069.3	79.3	26.1	-35.74	494.8	1,104.2	3,663.8	3,608.6	55.26	66.306		
11,900.0	7,740.0	7,200.0	7,069.3	80.9	26.1	-35.74	494.8	1,104.2	3,761.3	3,705.0	56.28	66.838		
12,000.0	7,740.0	7,200.0	7,069.3	82.5	26.1	-35.74	494.8	1,104.2	3,858.9	3,801.6	57.30	67.351		
12,100.0	7,740.0	7,176.7	7,047.0	84.2	26.1	-35.10	499.8	1,100.0	3,956.1	3,898.6	57.57	68.714		
12,200.0	7,740.0	7,174.3	7,044.6	85.8	26.0	-35.03	500.3	1,099.5	4,053.9	3,995.4	58.50	69.295		
12,300.0	7,740.0	7,172.0	7,042.4	87.4	26.0	-34.97	500.7	1,099.1	4,151.7	4,092.3	59.43	69.858		
12,400.0	7,740.0	7,150.0	7,021.1	89.1	26.0	-34.38	504.4	1,095.0	4,250.0	4,190.3	59.72	71.165		
12,500.0	7,740.0	7,150.0	7,021.1	90.7	26.0	-34.38	504.4	1,095.0	4,347.9	4,287.2	60.71	71.618		
12,600.0	7,740.0	7,150.0	7,021.1	92.4	26.0	-34.38	504.4	1,095.0	4,445.9	4,384.2	61.70	72.056		
12,700.0	7,740.0	7,150.0	7,021.1	94.0	26.0	-34.38	504.4	1,095.0	4,544.0	4,481.4	62.69	72.482		
12,800.0	7,740.0	7,150.0	7,021.1	95.7	26.0	-34.38	504.4	1,095.0	4,642.2	4,578.5	63.68	72.895		
12,900.0	7,740.0	7,150.0	7,021.1	97.3	26.0	-34.38	504.4	1,095.0	4,740.5	4,675.8	64.68	73.296		
13,000.0	7,740.0	7,150.0	7,021.1	99.0	26.0	-34.38	504.4	1,095.0	4,838.8	4,773.2	65.67	73.686		
13,100.0	7,740.0	7,150.0	7,021.1	100.7	26.0	-34.38	504.4	1,095.0	4,937.2	4,870.6	66.66	74.064		
13,200.0	7,740.0	7,150.0	7,021.1	102.3	26.0	-34.38	504.4	1,095.0	5,035.7	4,968.0	67.65	74.432		
13,300.0	7,740.0	7,150.0	7,021.1	104.0	26.0	-34.38	504.4	1,095.0	5,134.2	5,065.6	68.65	74.790		
13,400.0	7,740.0	7,150.0	7,021.1	105.7	26.0	-34.38	504.4	1,095.0	5,232.8	5,163.1	69.64	75.138		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design S7-T1N-R68W (Woolley-Sosa/Becky/Morgan Hills) - Woolley-Sosa 2G-7H-E168 - HZ - Plan #2											Offset Site Error: 0.0 ft			
Survey Program: 0-Geolink MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.69	0.4	-70.0	70.0					
100.0	100.0	100.0	100.0	0.2	0.2	-89.69	0.4	-70.0	70.0	69.7	0.30	230.404		
200.0	200.0	200.0	200.0	0.3	0.3	-89.69	0.4	-70.0	70.0	69.3	0.65	107.193		
250.0	250.0	250.6	250.6	0.4	0.4	-89.63	0.4	-69.8	69.8	68.9	0.83	84.179		
300.0	300.0	301.2	301.2	0.5	0.5	170.58	0.7	-69.1	69.4	68.3	1.00	69.082		
400.0	400.0	402.3	402.2	0.7	0.7	171.57	1.5	-66.6	68.6	67.2	1.36	50.600		
500.0	499.9	503.4	503.2	0.9	0.9	173.33	3.0	-62.4	67.9	66.2	1.71	39.770		
600.0	599.8	604.4	604.1	1.1	1.1	175.87	5.0	-56.5	67.5	65.4	2.06	32.700		
683.9	683.4	689.1	688.5	1.2	1.3	178.58	7.2	-50.2	67.4	65.0	2.37	28.461		
700.0	699.5	705.4	704.8	1.3	1.3	179.17	7.6	-48.9	67.4	64.9	2.43	27.773		
800.0	799.2	806.3	805.2	1.5	1.5	-176.81	10.8	-39.7	67.7	64.9	2.80	24.192		
900.0	898.6	907.2	905.4	1.7	1.8	-172.17	14.6	-28.8	68.7	65.5	3.19	21.514		
1,000.0	997.9	1,007.9	1,005.2	2.0	2.1	-167.04	18.9	-16.2	70.4	66.8	3.62	19.465		
1,100.0	1,096.9	1,108.6	1,104.8	2.3	2.4	-161.62	23.8	-2.0	73.2	69.1	4.10	17.873		
1,200.0	1,195.7	1,209.1	1,203.9	2.6	2.7	-156.11	29.2	13.8	77.1	72.5	4.64	16.622		
1,300.0	1,294.1	1,309.5	1,302.5	2.9	3.1	-150.72	35.3	31.3	82.2	77.0	5.26	15.640		
1,400.0	1,392.3	1,409.7	1,400.7	3.3	3.4	-145.62	41.8	50.3	88.6	82.7	5.96	14.877		
1,500.0	1,490.1	1,509.8	1,498.4	3.7	3.9	-140.90	48.9	71.0	96.3	89.5	6.74	14.295		
1,600.0	1,587.5	1,609.7	1,595.5	4.1	4.3	-136.65	56.6	93.1	105.2	97.6	7.58	13.871		
1,700.0	1,684.6	1,708.9	1,691.8	4.5	4.7	-133.39	64.4	115.8	115.6	107.2	8.46	13.672		
1,750.0	1,732.9	1,758.5	1,740.0	4.8	5.0	-132.20	68.3	127.1	121.4	112.5	8.90	13.647		
1,800.0	1,781.2	1,808.2	1,788.1	5.0	5.2	-129.38	72.2	138.4	127.2	117.8	9.34	13.614		
1,900.0	1,877.8	1,907.6	1,884.6	5.5	5.6	-124.29	80.0	161.1	137.8	127.5	10.24	13.452		
1,981.2	1,956.2	1,988.3	1,963.0	5.9	6.0	-120.60	86.3	179.5	145.3	134.4	10.97	13.249		
2,000.0	1,974.4	2,007.1	1,981.2	6.0	6.1	-120.49	87.8	183.8	147.0	135.8	11.14	13.197		
2,100.0	2,071.3	2,106.7	2,077.9	6.4	6.5	-119.66	95.6	206.5	155.2	143.1	12.02	12.906		
2,181.5	2,150.7	2,188.0	2,156.8	6.7	6.9	-118.65	102.0	225.0	161.2	148.5	12.76	12.639		
2,200.0	2,168.6	2,206.4	2,174.6	6.8	7.0	-118.37	103.5	229.2	162.6	149.6	12.93	12.576		
2,300.0	2,266.1	2,306.1	2,271.3	7.3	7.4	-116.97	111.3	251.9	169.8	155.9	13.84	12.265		
2,400.0	2,363.5	2,405.7	2,368.0	7.7	7.9	-115.69	119.1	274.7	177.1	162.3	14.76	11.998		
2,500.0	2,461.0	2,505.4	2,464.8	8.1	8.3	-114.51	126.9	297.4	184.5	168.8	15.68	11.767		
2,600.0	2,558.4	2,605.0	2,561.5	8.6	8.8	-113.42	134.8	320.1	192.0	175.4	16.60	11.566		
2,700.0	2,655.8	2,704.7	2,658.2	9.0	9.3	-112.41	142.6	342.8	199.5	182.0	17.51	11.390		
2,800.0	2,753.3	2,804.3	2,754.9	9.4	9.7	-111.47	150.4	365.5	207.1	188.7	18.43	11.236		
2,900.0	2,850.7	2,904.0	2,851.6	9.9	10.2	-110.60	158.3	388.3	214.7	195.4	19.35	11.099		
3,000.0	2,948.2	3,003.7	2,948.3	10.3	10.6	-109.79	166.1	411.0	222.4	202.2	20.26	10.978		
3,100.0	3,045.6	3,103.3	3,045.0	10.7	11.1	-109.04	173.9	433.7	230.1	209.0	21.17	10.870		
3,200.0	3,143.0	3,203.0	3,141.8	11.2	11.6	-108.33	181.7	456.4	237.9	215.8	22.08	10.774		
3,300.0	3,240.5	3,302.6	3,238.5	11.6	12.0	-107.67	189.6	479.2	245.7	222.7	22.99	10.687		
3,400.0	3,337.9	3,402.3	3,335.2	12.0	12.5	-107.05	197.4	501.9	253.5	229.6	23.90	10.608		
3,500.0	3,435.3	3,501.9	3,431.9	12.5	12.9	-106.47	205.2	524.6	261.4	236.6	24.81	10.537		
3,600.0	3,532.8	3,601.6	3,528.6	12.9	13.4	-105.92	213.1	547.3	269.3	243.6	25.71	10.473		
3,700.0	3,630.2	3,701.2	3,625.3	13.3	13.9	-105.40	220.9	570.0	277.2	250.6	26.62	10.414		
3,800.0	3,727.7	3,800.9	3,722.1	13.8	14.3	-104.91	228.7	592.8	285.1	257.6	27.52	10.361		
3,900.0	3,825.1	3,900.6	3,818.8	14.2	14.8	-104.45	236.6	615.5	293.1	264.6	28.42	10.311		
4,000.0	3,922.5	4,000.2	3,915.5	14.6	15.3	-104.01	244.4	638.2	301.0	271.7	29.32	10.266		
4,100.0	4,020.0	4,099.9	4,012.2	15.1	15.7	-103.59	252.2	660.9	309.0	278.8	30.22	10.225		
4,200.0	4,117.4	4,199.5	4,108.9	15.5	16.2	-103.20	260.0	683.7	317.0	285.9	31.12	10.187		
4,300.0	4,214.9	4,299.2	4,205.6	16.0	16.6	-102.82	267.9	706.4	325.0	293.0	32.02	10.151		
4,400.0	4,312.3	4,398.8	4,302.3	16.4	17.1	-102.46	275.7	729.1	333.0	300.1	32.91	10.119		
4,500.0	4,409.7	4,498.5	4,399.1	16.8	17.6	-102.12	283.5	751.8	341.1	307.3	33.81	10.088		
4,600.0	4,507.2	4,598.2	4,495.8	17.3	18.0	-101.80	291.4	774.6	349.1	314.4	34.70	10.060		

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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: 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
4,700.0	4,604.6	4,697.8	4,592.5	17.7	18.5	-101.49	299.2	797.3	357.2	321.6	35.60	10.034	
4,800.0	4,702.0	4,797.5	4,689.2	18.1	19.0	-101.19	307.0	820.0	365.2	328.8	36.49	10.009	
4,900.0	4,799.5	4,897.1	4,785.9	18.6	19.4	-100.91	314.8	842.7	373.3	335.9	37.38	9.986	
5,000.0	4,896.9	4,996.8	4,882.6	19.0	19.9	-100.64	322.7	865.4	381.4	343.1	38.28	9.965	
5,100.0	4,994.4	5,096.4	4,979.3	19.4	20.3	-100.38	330.5	888.2	389.5	350.3	39.17	9.945	
5,200.0	5,091.8	5,196.1	5,076.1	19.9	20.8	-100.13	338.3	910.9	397.6	357.6	40.06	9.926	
5,300.0	5,189.2	5,295.8	5,172.8	20.3	21.3	-99.89	346.2	933.6	405.7	364.8	40.95	9.908	
5,400.0	5,286.7	5,395.4	5,269.5	20.8	21.7	-99.66	354.0	956.3	413.8	372.0	41.84	9.892	
5,500.0	5,384.1	5,495.1	5,366.2	21.2	22.2	-99.44	361.8	979.1	422.0	379.2	42.73	9.876	
5,600.0	5,481.6	5,594.7	5,462.9	21.6	22.7	-99.22	369.6	1,001.8	430.1	386.5	43.61	9.861	
5,700.0	5,579.0	5,694.4	5,559.6	22.1	23.1	-99.02	377.5	1,024.5	438.2	393.7	44.50	9.847	
5,800.0	5,676.4	5,794.0	5,656.4	22.5	23.6	-98.82	385.3	1,047.2	446.4	401.0	45.39	9.834	
5,900.0	5,773.9	5,893.7	5,753.1	22.9	24.1	-98.63	393.1	1,070.0	454.5	408.2	46.28	9.821	
6,000.0	5,871.3	5,993.3	5,849.8	23.4	24.5	-98.44	401.0	1,092.7	462.7	415.5	47.16	9.809	
6,100.0	5,968.7	6,093.0	5,946.5	23.8	25.0	-98.27	408.8	1,115.4	470.8	422.8	48.05	9.798	
6,200.0	6,066.2	6,192.7	6,043.2	24.3	25.4	-98.10	416.6	1,138.1	479.0	430.0	48.94	9.787	
6,300.0	6,163.6	6,292.3	6,139.9	24.7	25.9	-97.93	424.5	1,160.8	487.1	437.3	49.82	9.777	
6,400.0	6,261.1	6,392.0	6,236.6	25.1	26.4	-97.77	432.3	1,183.6	495.3	444.6	50.71	9.768	
6,500.0	6,358.5	6,491.6	6,333.4	25.6	26.8	-97.61	440.1	1,206.3	503.5	451.9	51.59	9.759	
6,600.0	6,455.9	6,591.3	6,430.1	26.0	27.3	-97.46	447.9	1,229.0	511.6	459.2	52.48	9.750	
6,700.0	6,553.4	6,690.9	6,526.8	26.5	27.8	-97.32	455.8	1,251.7	519.8	466.5	53.36	9.741	
6,800.0	6,650.8	6,790.6	6,623.5	26.9	28.2	-97.18	463.6	1,274.5	528.0	473.8	54.25	9.734	
6,900.0	6,748.3	6,890.3	6,720.2	27.3	28.7	-97.04	471.4	1,297.2	536.2	481.1	55.13	9.726	
7,000.0	6,845.7	6,989.9	6,816.9	27.8	29.1	-96.91	479.3	1,319.9	544.4	488.4	56.01	9.719	
7,100.0	6,943.1	7,089.6	6,913.7	28.2	29.6	-96.78	487.1	1,342.6	552.6	495.7	56.90	9.712	
7,200.0	7,040.6	7,189.2	7,010.4	28.6	30.1	-96.66	494.9	1,365.3	560.8	503.0	57.78	9.705	
7,300.0	7,138.0	7,288.9	7,107.1	29.1	30.5	-96.53	502.7	1,388.1	568.9	510.3	58.66	9.699	
7,341.8	7,178.7	8,050.0	7,700.8	29.3	32.0	-104.96	145.2	1,527.6	565.7	505.7	59.96	9.433	
7,350.0	7,186.7	8,150.0	7,728.6	29.3	32.1	-113.51	49.5	1,534.1	557.8	501.6	56.23	9.921	
7,400.0	7,235.4	8,210.3	7,737.3	29.5	32.2	-157.05	-10.1	1,536.1	508.3	480.9	27.41	18.545	
7,450.0	7,283.6	8,199.7	7,736.2	29.7	32.1	-172.74	0.4	1,535.9	458.6	418.6	40.02	11.460	
7,500.0	7,331.0	8,180.5	7,733.8	29.9	32.1	-174.63	19.5	1,535.3	409.2	362.7	46.46	8.807	
7,550.0	7,377.4	8,158.7	7,730.2	30.1	32.1	-173.15	41.0	1,534.5	360.2	312.0	48.20	7.472	
7,600.0	7,422.2	8,135.7	7,725.6	30.3	32.1	-170.59	63.5	1,533.4	311.7	264.0	47.70	6.535	
7,650.0	7,465.2	8,112.0	7,719.9	30.5	32.0	-167.34	86.4	1,532.1	263.9	218.0	45.92	5.748	
7,700.0	7,506.0	8,088.0	7,713.2	30.7	32.0	-163.21	109.4	1,530.5	217.1	174.0	43.11	5.035	
7,750.0	7,544.4	8,063.8	7,705.6	30.9	32.0	-157.67	132.3	1,528.7	171.5	132.1	39.39	4.354	
7,800.0	7,580.0	8,039.4	7,696.9	31.1	32.0	-149.75	155.0	1,526.6	127.8	93.0	34.81	3.672	
7,850.0	7,612.6	8,014.9	7,687.2	31.3	32.0	-137.79	177.4	1,524.4	87.8	57.9	29.97	2.931	
7,900.0	7,641.9	7,990.3	7,676.6	31.5	32.0	-119.56	199.4	1,521.9	57.4	30.0	27.47	2.091	
7,930.9	7,658.3	7,975.1	7,669.5	31.7	31.9	-104.96	212.8	1,520.2	50.6	21.8	28.80	1.758 CC, ES	
7,950.0	7,667.7	7,965.7	7,665.0	31.7	31.9	-95.28	221.0	1,519.2	53.3	22.9	30.38	1.753 SF	
8,000.0	7,689.8	7,941.0	7,652.5	32.0	31.9	-71.64	242.1	1,516.2	77.8	44.4	33.33	2.333	
8,050.0	7,708.0	7,916.3	7,639.2	32.2	31.9	-54.57	262.7	1,513.1	112.4	80.1	32.28	3.481	
8,100.0	7,722.3	7,891.5	7,624.9	32.4	31.9	-43.61	282.7	1,509.7	149.2	120.1	29.04	5.137	
8,150.0	7,732.4	7,866.7	7,609.8	32.7	31.9	-36.55	302.0	1,506.2	186.0	160.7	25.29	7.353	
8,200.0	7,738.3	7,841.9	7,593.9	33.0	31.9	-31.85	320.7	1,502.5	222.0	200.1	21.87	10.151	
8,244.9	7,740.0	7,819.6	7,579.0	33.2	31.8	-28.89	336.8	1,498.9	253.4	233.9	19.51	12.986	
8,300.0	7,740.0	7,800.0	7,565.3	33.5	31.8	-27.77	350.5	1,495.7	292.4	272.8	19.61	14.913	
8,400.0	7,740.0	7,750.0	7,528.5	34.1	31.8	-25.41	383.3	1,487.1	367.3	347.6	19.69	18.647	
8,500.0	7,740.0	7,716.7	7,502.6	34.8	31.7	-24.15	403.1	1,481.0	446.7	426.7	20.00	22.337	
8,600.0	7,740.0	7,686.8	7,478.2	35.6	31.7	-23.18	419.7	1,475.3	529.5	509.2	20.34	26.027	

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 2G-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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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				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)				
8,700.0	7,740.0	7,650.0	7,447.3	36.5	31.7	-22.17	438.2	1,468.0	615.3	594.6	20.66	29.780		
8,800.0	7,740.0	7,650.0	7,447.3	37.4	31.7	-22.17	438.2	1,468.0	702.9	681.7	21.24	33.101		
8,900.0	7,740.0	7,619.6	7,420.9	38.3	31.6	-21.45	451.9	1,461.8	792.2	770.6	21.60	36.671		
9,000.0	7,740.0	7,600.0	7,403.5	39.4	31.6	-21.04	460.0	1,457.7	883.0	860.9	22.05	40.053		
9,100.0	7,740.0	7,600.0	7,403.5	40.4	31.6	-21.04	460.0	1,457.7	975.1	952.5	22.62	43.105		
9,200.0	7,740.0	7,574.6	7,380.6	41.6	31.5	-20.56	469.6	1,452.3	1,067.8	1,044.8	23.02	46.382		
9,300.0	7,740.0	7,550.0	7,358.1	42.7	31.5	-20.13	477.8	1,447.0	1,161.7	1,138.3	23.43	49.582		
9,400.0	7,740.0	7,550.0	7,358.1	43.9	31.5	-20.13	477.8	1,447.0	1,255.9	1,231.9	24.00	52.324		
9,500.0	7,740.0	7,550.0	7,358.1	45.2	31.5	-20.13	477.8	1,447.0	1,350.9	1,326.3	24.58	54.962		
9,600.0	7,740.0	7,550.0	7,358.1	46.4	31.5	-20.13	477.8	1,447.0	1,446.5	1,421.4	25.16	57.497		
9,700.0	7,740.0	7,526.2	7,335.9	47.7	31.4	-19.76	484.9	1,441.8	1,542.1	1,516.5	25.56	60.343		
9,800.0	7,740.0	7,519.0	7,329.2	49.1	31.4	-19.66	486.8	1,440.3	1,638.3	1,612.2	26.08	62.825		
9,900.0	7,740.0	7,500.0	7,311.3	50.4	31.3	-19.40	491.5	1,436.0	1,735.0	1,708.5	26.51	65.452		
10,000.0	7,740.0	7,500.0	7,311.3	51.8	31.3	-19.40	491.5	1,436.0	1,831.7	1,804.6	27.08	67.636		
10,100.0	7,740.0	7,500.0	7,311.3	53.2	31.3	-19.40	491.5	1,436.0	1,928.7	1,901.1	27.66	69.736		
10,200.0	7,740.0	7,500.0	7,311.3	54.6	31.3	-19.40	491.5	1,436.0	2,026.1	1,997.8	28.24	71.756		
10,300.0	7,740.0	7,500.0	7,311.3	56.1	31.3	-19.40	491.5	1,436.0	2,123.6	2,094.8	28.82	73.698		
10,400.0	7,740.0	7,500.0	7,311.3	57.6	31.3	-19.40	491.5	1,436.0	2,221.4	2,192.0	29.40	75.567		
10,500.0	7,740.0	7,500.0	7,311.3	59.0	31.3	-19.40	491.5	1,436.0	2,319.4	2,289.4	29.98	77.365		
10,600.0	7,740.0	7,478.4	7,290.7	60.5	31.3	-19.12	496.1	1,431.2	2,417.0	2,386.7	30.36	79.617		
10,700.0	7,740.0	7,474.8	7,287.3	62.0	31.3	-19.08	496.8	1,430.4	2,515.1	2,484.2	30.90	81.389		
10,800.0	7,740.0	7,471.4	7,284.0	63.5	31.2	-19.03	497.4	1,429.6	2,613.4	2,581.9	31.45	83.100		
10,900.0	7,740.0	7,450.0	7,263.5	65.1	31.2	-18.79	500.9	1,424.8	2,712.1	2,680.2	31.82	85.218		
11,000.0	7,740.0	7,450.0	7,263.5	66.6	31.2	-18.79	500.9	1,424.8	2,810.4	2,778.0	32.40	86.744		
11,100.0	7,740.0	7,450.0	7,263.5	68.2	31.2	-18.79	500.9	1,424.8	2,908.8	2,875.8	32.97	88.219		
11,200.0	7,740.0	7,450.0	7,263.5	69.7	31.2	-18.79	500.9	1,424.8	3,007.4	2,973.8	33.55	89.643		
11,300.0	7,740.0	7,450.0	7,263.5	71.3	31.2	-18.79	500.9	1,424.8	3,106.0	3,071.9	34.12	91.020		
11,400.0	7,740.0	7,450.0	7,263.5	72.9	31.2	-18.79	500.9	1,424.8	3,204.7	3,170.0	34.70	92.351		
11,500.0	7,740.0	7,450.0	7,263.5	74.5	31.2	-18.79	500.9	1,424.8	3,303.5	3,268.2	35.28	93.639		
11,600.0	7,740.0	7,450.0	7,263.5	76.1	31.2	-18.79	500.9	1,424.8	3,402.4	3,366.5	35.86	94.886		
11,700.0	7,740.0	7,450.0	7,263.5	77.7	31.2	-18.79	500.9	1,424.8	3,501.3	3,464.9	36.44	96.093		
11,800.0	7,740.0	7,450.0	7,263.5	79.3	31.2	-18.79	500.9	1,424.8	3,600.3	3,563.3	37.02	97.262		
11,900.0	7,740.0	7,450.0	7,263.5	80.9	31.2	-18.79	500.9	1,424.8	3,699.3	3,661.7	37.60	98.395		
12,000.0	7,740.0	7,450.0	7,263.5	82.5	31.2	-18.79	500.9	1,424.8	3,798.4	3,760.3	38.18	99.494		
12,100.0	7,740.0	7,450.0	7,263.5	84.2	31.2	-18.79	500.9	1,424.8	3,897.6	3,858.8	38.76	100.559		
12,200.0	7,740.0	7,450.0	7,263.5	85.8	31.2	-18.79	500.9	1,424.8	3,996.8	3,957.4	39.34	101.593		
12,300.0	7,740.0	7,450.0	7,263.5	87.4	31.2	-18.79	500.9	1,424.8	4,096.0	4,056.1	39.92	102.596		
12,400.0	7,740.0	7,450.0	7,263.5	89.1	31.2	-18.79	500.9	1,424.8	4,195.2	4,154.7	40.51	103.571		
12,500.0	7,740.0	7,450.0	7,263.5	90.7	31.2	-18.79	500.9	1,424.8	4,294.5	4,253.4	41.09	104.517		
12,600.0	7,740.0	7,450.0	7,263.5	92.4	31.2	-18.79	500.9	1,424.8	4,393.9	4,352.2	41.67	105.437		
12,700.0	7,740.0	7,450.0	7,263.5	94.0	31.2	-18.79	500.9	1,424.8	4,493.2	4,451.0	42.26	106.331		
12,800.0	7,740.0	7,450.0	7,263.5	95.7	31.2	-18.79	500.9	1,424.8	4,592.6	4,549.8	42.84	107.201		
12,900.0	7,740.0	7,450.0	7,263.5	97.3	31.2	-18.79	500.9	1,424.8	4,692.0	4,648.6	43.43	108.046		
13,000.0	7,740.0	7,450.0	7,263.5	99.0	31.2	-18.79	500.9	1,424.8	4,791.4	4,747.4	44.01	108.870		
13,100.0	7,740.0	7,427.0	7,241.3	100.7	31.1	-18.55	503.8	1,419.6	4,890.4	4,846.1	44.25	110.519		
13,200.0	7,740.0	7,425.9	7,240.2	102.3	31.1	-18.54	503.9	1,419.4	4,989.8	4,945.0	44.81	111.350		
13,300.0	7,740.0	7,424.9	7,239.2	104.0	31.1	-18.53	504.1	1,419.1	5,089.3	5,043.9	45.38	112.160		
13,400.0	7,740.0	7,423.8	7,238.2	105.7	31.1	-18.51	504.2	1,418.9	5,188.7	5,142.8	45.94	112.950		

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

Cathedral Energy Services

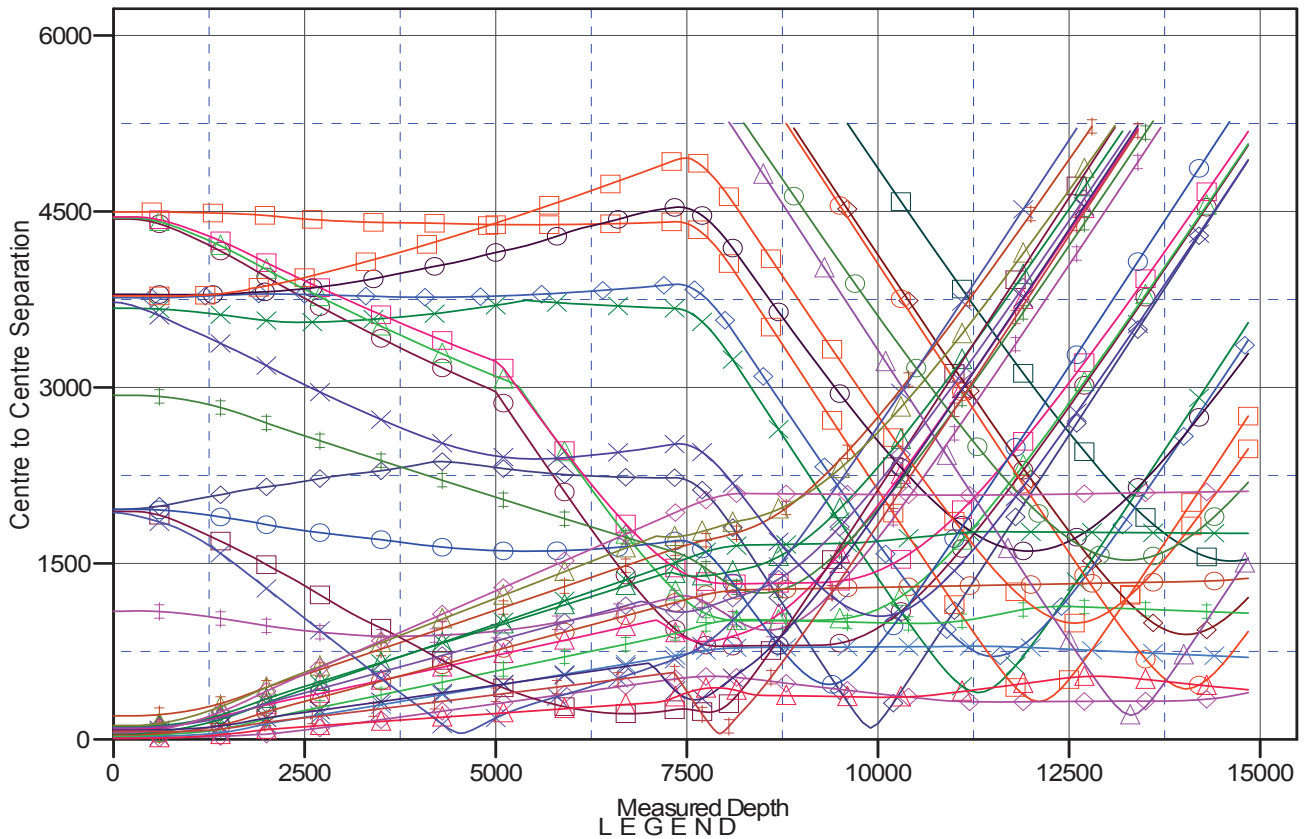
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Woolley-Becky 2G-7H-E168
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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 2G-7H-E168	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #2	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 2G-7H-E168
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.29°

Ladder Plot



NOBLE WELL, NO SURVEYS V0	Woolley-Becky 2D-7H-E168, Hz, Plan #4 V0	Woolley-Sosa 2D-7H-E168, Hz, Plan #
8, Hz, Plan #2 V0	Morgan Hills 1C-7H-A168, Hz, Plan #2 V0	WOOLLEY 2-4-7 (EXISTING), ENCAN
ING), KERR-MCGEE WELL, SURVEYS V0	BEARDEN 13-6 (EXISTING), ENCAN WEL, SURVEYS V0	BECKY 7-6 (EXISTING), NOBLE WEI
38 Hz, Plan #3 V0	BULTHAUP 21-6 (EXISTING), KERR-MCGEE WELL, SURVEYS V0	Woolley-Sosa 2B-7H-E168, Hz, Plan #
ISTING), ENCAN WEL, GYRO V0	WOOLLEY A 1-7 (EXISTING), ENCAN WEL, NO SURVEYS V0	BECKY 4 (EXISTING), MARTIN EXP 1
FOUNDATION WELL, NO SURVEYS V0	BEARDEN 2-4-6 (EXISTING), ENCAN WEL, PLAN ONLY V0	Woolley-Becky 2A-7H-E168, Hz, Plan #
ING), ENCAN WEL, SURVEYS V0	Woolley-Becky 2C-7H-E168, Hz, Plan #4 V0	Woolley-Sosa 2F-7H-E168, Hz, Plan #
), ENCAN WEL, SURVEYS V0	Woolley-Becky 2H-7H-E168, Hz, Plan #3 V0	BEARDEN 2-8-6 (EXISTING), ENCAN
68, Hz, Plan #2 V0	Woolley-Becky 2B-7H-E168, Hz, Plan #2 V0	Woolley-Becky 2F-7H-E168, Hz, Plan #
8, Hz, Plan #2 V0	Woolley-Sosa 2C-7H-E168, Hz, Plan #2 V0	Woolley-Sosa 2G-7H-E168, Hz, Plan #

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