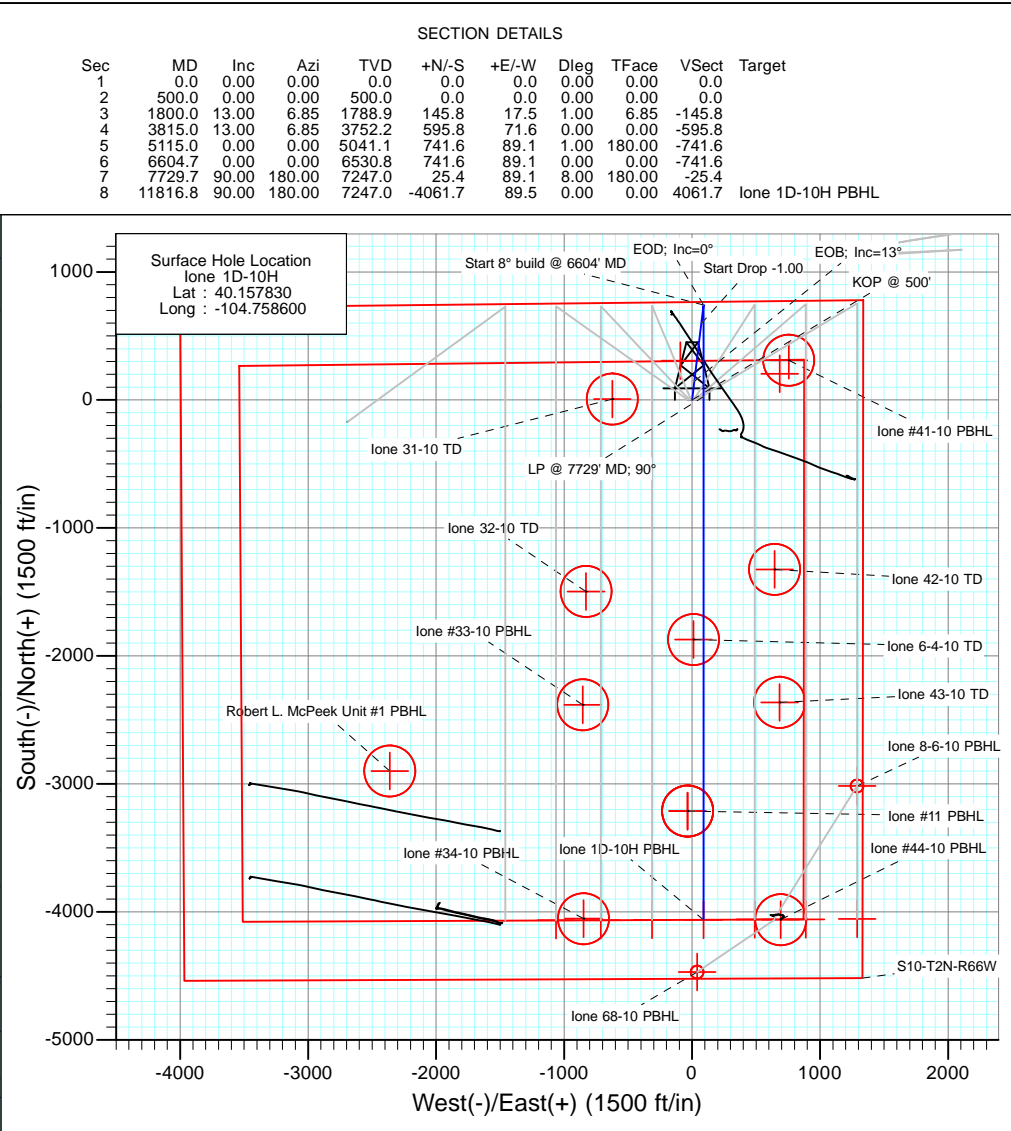
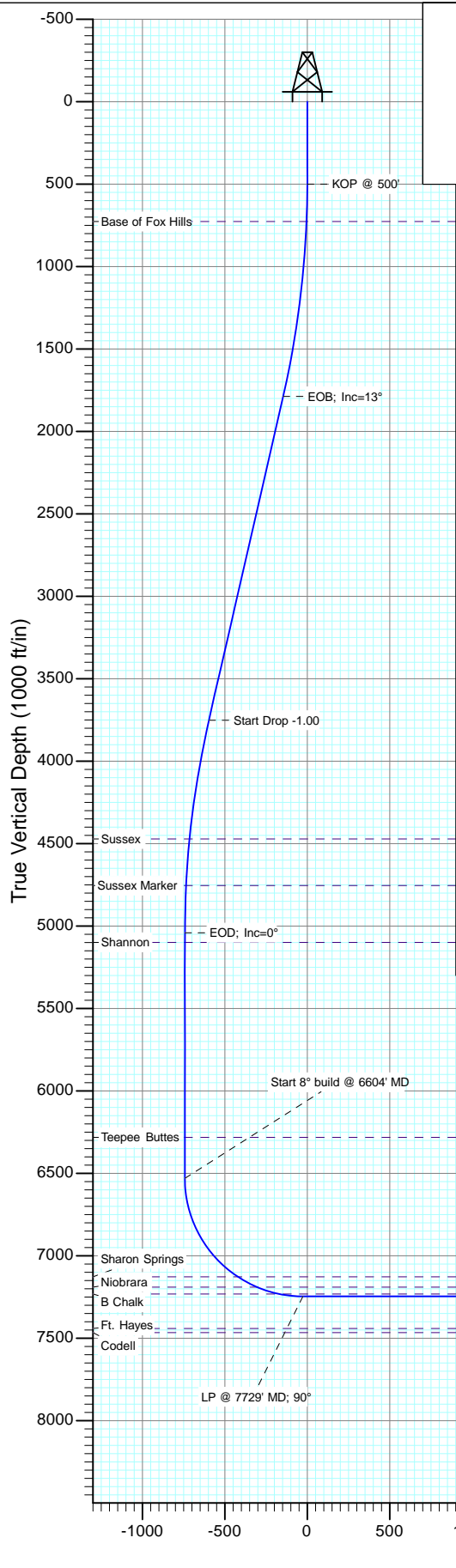
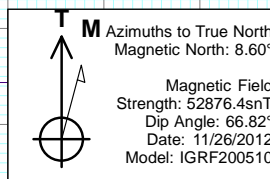




Project: DJ Wattenberg
Site: S10-T2N-R66W (lone)
Well: lone 1D-10H
Wellbore: Hz
Design: Plan #1



DESIGN TARGET DETAILS					
Name	+N/-S	+E/-W	Northing	Easting	Latitude
lone 1D-10H PBHL	-4061.7	89.5	1297148.73	3207352.59	40.146680
					Longitude
					-104.758280



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
727.0	727.1	Base of Fox Hills
4472.0	4545.0	Sussex
4754.0	4827.8	Sussex Marker
5099.0	5172.9	Shannon
6282.0	6355.9	Teepee Buttes
7128.0	7310.9	Sharon Springs
7190.0	7442.0	Niobrara
7232.0	7582.9	B Chalk

Plan #1
lone 1D-10H
12xxx; LR
WELL @ 5012.0ft (Original Well Elev)
Ground Elevation @ 4999.0
North American Datum 1983
Well lone 1D-10H, True North

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1D-10H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	S10-T2N-R66W (lone)	North Reference:	True
Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

Site		S10-T2N-R66W (lone)			
Site Position:		Northing:	1,297,164.02 ft	Latitude:	40.146710
From:	Lat/Long	Easting:	3,207,875.24 ft	Longitude:	-104.756410
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.48 °

Well	lone 1D-10H					
Well Position	+N/-S	0.0 ft	Northing:	1,301,209.55 ft	Latitude:	40.157830
	+E/-W	0.0 ft	Easting:	3,207,229.17 ft	Longitude:	-104.758600
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,999.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/26/2012	8.60	66.82	52,876

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,800.0	13.00	6.85	1,788.9	145.8	17.5	1.00	1.00	0.00	6.85	
3,815.0	13.00	6.85	3,752.2	595.8	71.6	0.00	0.00	0.00	0.00	
5,115.0	0.00	0.00	5,041.1	741.6	89.1	1.00	-1.00	0.00	180.00	
6,604.7	0.00	0.00	6,530.8	741.6	89.1	0.00	0.00	0.00	0.00	
7,729.7	90.00	180.00	7,247.0	25.4	89.1	8.00	8.00	0.00	180.00	
11,816.8	90.00	180.00	7,247.0	-4,061.7	89.5	0.00	0.00	0.00	0.00	lone 1D-10H PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1D-10H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	S10-T2N-R66W (lone)	North Reference:	True
Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 500'
600.0	1.00	6.85	600.0	0.9	0.1	-0.9	1.00	1.00	
700.0	2.00	6.85	700.0	3.5	0.4	-3.5	1.00	1.00	
727.1	2.27	6.85	727.0	4.5	0.5	-4.5	1.00	1.00	Base of Fox Hills
800.0	3.00	6.85	799.9	7.8	0.9	-7.8	1.00	1.00	
900.0	4.00	6.85	899.7	13.9	1.7	-13.9	1.00	1.00	
1,000.0	5.00	6.85	999.4	21.6	2.6	-21.6	1.00	1.00	
1,100.0	6.00	6.85	1,098.9	31.2	3.7	-31.2	1.00	1.00	
1,200.0	7.00	6.85	1,198.3	42.4	5.1	-42.4	1.00	1.00	
1,300.0	8.00	6.85	1,297.4	55.4	6.7	-55.4	1.00	1.00	
1,400.0	9.00	6.85	1,396.3	70.0	8.4	-70.0	1.00	1.00	
1,500.0	10.00	6.85	1,494.9	86.4	10.4	-86.4	1.00	1.00	
1,600.0	11.00	6.85	1,593.3	104.5	12.6	-104.5	1.00	1.00	
1,700.0	12.00	6.85	1,691.2	124.3	14.9	-124.3	1.00	1.00	
1,800.0	13.00	6.85	1,788.9	145.8	17.5	-145.8	1.00	1.00	EOB; Inc=13°
1,900.0	13.00	6.85	1,886.3	168.1	20.2	-168.1	0.00	0.00	
2,000.0	13.00	6.85	1,983.7	190.5	22.9	-190.5	0.00	0.00	
2,100.0	13.00	6.85	2,081.2	212.8	25.6	-212.8	0.00	0.00	
2,200.0	13.00	6.85	2,178.6	235.1	28.2	-235.1	0.00	0.00	
2,300.0	13.00	6.85	2,276.1	257.5	30.9	-257.5	0.00	0.00	
2,400.0	13.00	6.85	2,373.5	279.8	33.6	-279.8	0.00	0.00	
2,500.0	13.00	6.85	2,470.9	302.1	36.3	-302.1	0.00	0.00	
2,600.0	13.00	6.85	2,568.4	324.5	39.0	-324.5	0.00	0.00	
2,700.0	13.00	6.85	2,665.8	346.8	41.7	-346.8	0.00	0.00	
2,800.0	13.00	6.85	2,763.2	369.1	44.3	-369.1	0.00	0.00	
2,900.0	13.00	6.85	2,860.7	391.5	47.0	-391.5	0.00	0.00	
3,000.0	13.00	6.85	2,958.1	413.8	49.7	-413.8	0.00	0.00	
3,100.0	13.00	6.85	3,055.6	436.1	52.4	-436.1	0.00	0.00	
3,200.0	13.00	6.85	3,153.0	458.5	55.1	-458.5	0.00	0.00	
3,300.0	13.00	6.85	3,250.4	480.8	57.8	-480.8	0.00	0.00	
3,400.0	13.00	6.85	3,347.9	503.2	60.4	-503.2	0.00	0.00	
3,500.0	13.00	6.85	3,445.3	525.5	63.1	-525.5	0.00	0.00	
3,600.0	13.00	6.85	3,542.7	547.8	65.8	-547.8	0.00	0.00	
3,700.0	13.00	6.85	3,640.2	570.2	68.5	-570.2	0.00	0.00	
3,800.0	13.00	6.85	3,737.6	592.5	71.2	-592.5	0.00	0.00	
3,815.0	13.00	6.85	3,752.2	595.8	71.6	-595.8	0.00	0.00	Start Drop -1.00
3,900.0	12.15	6.85	3,835.2	614.2	73.8	-614.2	1.00	-1.00	
4,000.0	11.15	6.85	3,933.1	634.3	76.2	-634.3	1.00	-1.00	
4,100.0	10.15	6.85	4,031.4	652.6	78.4	-652.6	1.00	-1.00	
4,200.0	9.15	6.85	4,130.0	669.3	80.4	-669.3	1.00	-1.00	
4,300.0	8.15	6.85	4,228.9	684.2	82.2	-684.2	1.00	-1.00	
4,400.0	7.15	6.85	4,328.0	697.4	83.8	-697.4	1.00	-1.00	
4,500.0	6.15	6.85	4,427.3	708.9	85.2	-708.9	1.00	-1.00	
4,545.0	5.70	6.85	4,472.0	713.5	85.7	-713.5	1.00	-1.00	Sussex
4,600.0	5.15	6.85	4,526.8	718.7	86.3	-718.7	1.00	-1.00	
4,700.0	4.15	6.85	4,626.5	726.7	87.3	-726.7	1.00	-1.00	
4,800.0	3.15	6.85	4,726.3	733.0	88.1	-733.0	1.00	-1.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1D-10H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	S10-T2N-R66W (lone)	North Reference:	True
Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,827.8	2.87	6.85	4,754.0	734.5	88.2	-734.5	1.00	-1.00	Sussex Marker
4,900.0	2.15	6.85	4,826.2	737.6	88.6	-737.6	1.00	-1.00	
5,000.0	1.15	6.85	4,926.1	740.5	89.0	-740.5	1.00	-1.00	
5,100.0	0.15	6.85	5,026.1	741.6	89.1	-741.6	1.00	-1.00	
5,115.0	0.00	0.00	5,041.1	741.6	89.1	-741.6	1.00	-1.00	EOD; Inc=0°
5,172.9	0.00	0.00	5,099.0	741.6	89.1	-741.6	0.00	0.00	Shannon
5,200.0	0.00	0.00	5,126.1	741.6	89.1	-741.6	0.00	0.00	
5,300.0	0.00	0.00	5,226.1	741.6	89.1	-741.6	0.00	0.00	
5,400.0	0.00	0.00	5,326.1	741.6	89.1	-741.6	0.00	0.00	
5,500.0	0.00	0.00	5,426.1	741.6	89.1	-741.6	0.00	0.00	
5,600.0	0.00	0.00	5,526.1	741.6	89.1	-741.6	0.00	0.00	
5,700.0	0.00	0.00	5,626.1	741.6	89.1	-741.6	0.00	0.00	
5,800.0	0.00	0.00	5,726.1	741.6	89.1	-741.6	0.00	0.00	
5,900.0	0.00	0.00	5,826.1	741.6	89.1	-741.6	0.00	0.00	
6,000.0	0.00	0.00	5,926.1	741.6	89.1	-741.6	0.00	0.00	
6,100.0	0.00	0.00	6,026.1	741.6	89.1	-741.6	0.00	0.00	
6,200.0	0.00	0.00	6,126.1	741.6	89.1	-741.6	0.00	0.00	
6,300.0	0.00	0.00	6,226.1	741.6	89.1	-741.6	0.00	0.00	
6,355.9	0.00	0.00	6,282.0	741.6	89.1	-741.6	0.00	0.00	Teepee Buttes
6,400.0	0.00	0.00	6,326.1	741.6	89.1	-741.6	0.00	0.00	
6,500.0	0.00	0.00	6,426.1	741.6	89.1	-741.6	0.00	0.00	
6,600.0	0.00	0.00	6,526.1	741.6	89.1	-741.6	0.00	0.00	
6,604.7	0.00	0.00	6,530.8	741.6	89.1	-741.6	0.00	0.00	Start 8° build @ 6604' MD
6,700.0	7.62	180.00	6,625.8	735.3	89.1	-735.3	8.00	8.00	
6,800.0	15.62	180.00	6,723.7	715.2	89.1	-715.2	8.00	8.00	
6,900.0	23.62	180.00	6,817.8	681.6	89.1	-681.6	8.00	8.00	
7,000.0	31.62	180.00	6,906.3	635.3	89.1	-635.3	8.00	8.00	
7,100.0	39.62	180.00	6,987.6	577.1	89.1	-577.1	8.00	8.00	
7,200.0	47.62	180.00	7,059.9	508.2	89.1	-508.2	8.00	8.00	
7,300.0	55.62	180.00	7,121.9	429.8	89.1	-429.8	8.00	8.00	
7,310.9	56.50	180.00	7,128.0	420.8	89.1	-420.8	8.00	8.00	Sharon Springs
7,400.0	63.62	180.00	7,172.4	343.6	89.1	-343.6	8.00	8.00	
7,442.0	66.99	180.00	7,190.0	305.4	89.1	-305.4	8.00	8.00	Niobrara
7,500.0	71.62	180.00	7,210.5	251.2	89.1	-251.2	8.00	8.00	
7,582.9	78.25	180.00	7,232.0	171.3	89.1	-171.3	8.00	8.00	B Chalk
7,600.0	79.62	180.00	7,235.3	154.4	89.1	-154.4	8.00	8.00	
7,700.0	87.62	180.00	7,246.4	55.1	89.1	-55.1	8.00	8.00	
7,729.7	90.00	180.00	7,247.0	25.4	89.1	-25.4	8.00	8.00	LP @ 7729' MD; 90°
7,800.0	90.00	180.00	7,247.0	-44.9	89.2	44.9	0.00	0.00	
7,900.0	90.00	180.00	7,247.0	-144.9	89.2	144.9	0.00	0.00	
8,000.0	90.00	180.00	7,247.0	-244.9	89.2	244.9	0.00	0.00	
8,100.0	90.00	180.00	7,247.0	-344.9	89.2	344.9	0.00	0.00	
8,200.0	90.00	180.00	7,247.0	-444.9	89.2	444.9	0.00	0.00	
8,300.0	90.00	180.00	7,247.0	-544.9	89.2	544.9	0.00	0.00	
8,400.0	90.00	180.00	7,247.0	-644.9	89.2	644.9	0.00	0.00	
8,500.0	90.00	180.00	7,247.0	-744.9	89.2	744.9	0.00	0.00	
8,600.0	90.00	180.00	7,247.0	-844.9	89.2	844.9	0.00	0.00	
8,700.0	90.00	180.00	7,247.0	-944.9	89.2	944.9	0.00	0.00	
8,800.0	90.00	180.00	7,247.0	-1,044.9	89.2	1,044.9	0.00	0.00	
8,900.0	90.00	180.00	7,247.0	-1,144.9	89.2	1,144.9	0.00	0.00	
9,000.0	90.00	180.00	7,247.0	-1,244.9	89.2	1,244.9	0.00	0.00	
9,100.0	90.00	180.00	7,247.0	-1,344.9	89.3	1,344.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1D-10H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	S10-T2N-R66W (lone)	North Reference:	True
Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	180.00	7,247.0	-1,444.9	89.3	1,444.9	0.00	0.00	
9,300.0	90.00	180.00	7,247.0	-1,544.9	89.3	1,544.9	0.00	0.00	
9,400.0	90.00	180.00	7,247.0	-1,644.9	89.3	1,644.9	0.00	0.00	
9,500.0	90.00	180.00	7,247.0	-1,744.9	89.3	1,744.9	0.00	0.00	
9,600.0	90.00	180.00	7,247.0	-1,844.9	89.3	1,844.9	0.00	0.00	
9,700.0	90.00	180.00	7,247.0	-1,944.9	89.3	1,944.9	0.00	0.00	
9,800.0	90.00	180.00	7,247.0	-2,044.9	89.3	2,044.9	0.00	0.00	
9,900.0	90.00	180.00	7,247.0	-2,144.9	89.3	2,144.9	0.00	0.00	
10,000.0	90.00	180.00	7,247.0	-2,244.9	89.3	2,244.9	0.00	0.00	
10,100.0	90.00	180.00	7,247.0	-2,344.9	89.3	2,344.9	0.00	0.00	
10,200.0	90.00	180.00	7,247.0	-2,444.9	89.3	2,444.9	0.00	0.00	
10,300.0	90.00	180.00	7,247.0	-2,544.9	89.3	2,544.9	0.00	0.00	
10,400.0	90.00	180.00	7,247.0	-2,644.9	89.3	2,644.9	0.00	0.00	
10,500.0	90.00	180.00	7,247.0	-2,744.9	89.4	2,744.9	0.00	0.00	
10,600.0	90.00	180.00	7,247.0	-2,844.9	89.4	2,844.9	0.00	0.00	
10,700.0	90.00	180.00	7,247.0	-2,944.9	89.4	2,944.9	0.00	0.00	
10,800.0	90.00	180.00	7,247.0	-3,044.9	89.4	3,044.9	0.00	0.00	
10,900.0	90.00	180.00	7,247.0	-3,144.9	89.4	3,144.9	0.00	0.00	
11,000.0	90.00	180.00	7,247.0	-3,244.9	89.4	3,244.9	0.00	0.00	
11,100.0	90.00	180.00	7,247.0	-3,344.9	89.4	3,344.9	0.00	0.00	
11,200.0	90.00	180.00	7,247.0	-3,444.9	89.4	3,444.9	0.00	0.00	
11,300.0	90.00	180.00	7,247.0	-3,544.9	89.4	3,544.9	0.00	0.00	
11,400.0	90.00	180.00	7,247.0	-3,644.9	89.4	3,644.9	0.00	0.00	
11,500.0	90.00	180.00	7,247.0	-3,744.9	89.4	3,744.9	0.00	0.00	
11,600.0	90.00	180.00	7,247.0	-3,844.9	89.4	3,844.9	0.00	0.00	
11,700.0	90.00	180.00	7,247.0	-3,944.9	89.4	3,944.9	0.00	0.00	
11,800.0	90.00	180.00	7,247.0	-4,044.9	89.5	4,044.9	0.00	0.00	
11,816.8	90.00	180.00	7,247.0	-4,061.7	89.5	4,061.7	0.00	0.00	TD at 11816.8

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									
lone 1D-10H PBHL	0.00	0.00	7,247.0	-4,061.7	89.5	1,297,148.73	3,207,352.59	40.146680	-104.758280
- plan hits target center									
- Point									

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1D-10H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site:	S10-T2N-R66W (lone)	North Reference:	True
Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
727.1	727.0	Base of Fox Hills			
4,545.0	4,472.0	Sussex			
4,827.8	4,754.0	Sussex Marker			
5,172.9	5,099.0	Shannon			
6,355.9	6,282.0	Teepee Buttes			
7,310.9	7,128.0	Sharon Springs			
7,442.0	7,190.0	Niobrara			
7,582.9	7,232.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
1,800.0	1,788.9	145.8	17.5	EOB; Inc=13°
3,815.0	3,752.2	595.8	71.6	Start Drop -1.00
5,115.0	5,041.1	741.6	89.1	EOD; Inc=0°
6,604.7	6,530.8	741.6	89.1	Start 8° build @ 6604' MD
7,729.7	7,247.0	25.4	89.1	LP @ 7729' MD; 90°
11,816.8	7,247.0	-4,061.7	89.5	TD at 11816.8

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S10-T2N-R66W (lone)

lone 1D-10H

Hz

Plan #1

Anticollision Report

15 December, 2012

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (Ione)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ione 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	12/15/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,816.8	Plan #1 (Hz)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NWSW S2-T2N-R66W (lone)						
lone 3A-2H - Hz - Plan #3	6,612.7	6,800.0	1,090.5	1,061.0	37.071	CC, ES, SF
lone 3A-2H - Hz - Plan #4	6,607.1	6,721.4	1,092.4	1,063.1	37.294	CC, ES
lone 3A-2H - Hz - Plan #4	6,650.0	6,750.0	1,093.5	1,064.1	37.228	SF
S10-T2N-R66W (lone)						
lone #11 (Existing) - Existing - Existing	10,967.3	7,247.0	124.6	52.3	1.724	CC, ES, SF
lone #2 (Existing) - Hz - Hz	7,985.6	7,238.9	129.3	108.4	6.175	CC, ES, SF
lone #31-10 (Existing) - Existing - Existing	500.0	484.0	623.3	621.6	367.810	CC
lone #31-10 (Existing) - Existing - Existing	700.0	684.0	623.7	621.3	260.297	ES
lone #31-10 (Existing) - Existing - Existing	7,800.0	7,231.0	714.3	688.0	27.193	SF
lone #32-10 (Existing) - Existing - Existing	9,251.9	7,231.0	917.5	873.8	21.002	CC, ES
lone #32-10 (Existing) - Existing - Existing	9,600.0	7,231.0	981.3	932.0	19.911	SF
lone #33-10 (Existing) - Existing - Existing	10,137.1	7,231.0	943.6	885.4	16.217	CC, ES
lone #33-10 (Existing) - Existing - Existing	10,400.0	7,231.0	979.5	916.9	15.645	SF
lone #34-10 (Existing) - Existing - Existing	11,808.4	7,225.0	937.9	851.2	10.818	CC
lone #34-10 (Existing) - Existing - Existing	11,816.8	7,225.0	937.9	851.1	10.800	ES, SF
lone #41-10 (Existing) - Existing - Existing	7,350.0	7,132.7	670.1	643.3	25.035	SF
lone #41-10 (Existing) - Existing - Existing	7,437.5	7,172.2	665.5	639.1	25.192	CC, ES
lone #43-10 (Existing) - Existing - Existing	10,118.2	7,231.0	594.1	536.3	10.267	CC, ES
lone #43-10 (Existing) - Existing - Existing	10,200.0	7,231.0	599.7	540.5	10.124	SF
lone #44-10 (Existing) - Existing - Existing	11,785.3	7,261.6	544.1	464.1	6.800	CC
lone #44-10 (Existing) - Existing - Existing	11,800.0	7,261.5	544.3	464.1	6.781	ES
lone #44-10 (Existing) - Existing - Existing	11,816.8	7,261.5	545.0	464.5	6.765	SF
lone #8-2-10 (Existing) - Existing - Existing	125.4	130.4	481.8	481.3	1,133.280	CC, ES
lone #8-2-10 (Existing) - Existing - Existing	9,000.0	7,380.7	1,314.6	1,273.5	31.959	SF
lone 1A-10H - Hz - Plan #1	200.0	200.0	30.7	30.1	47.101	CC, ES
lone 1A-10H - Hz - Plan #1	11,816.8	12,104.9	1,173.3	1,027.3	8.035	SF
lone 1B-10H - Hz - Plan #1	300.0	300.0	19.6	18.6	19.530	CC, ES
lone 1B-10H - Hz - Plan #1	11,816.8	11,847.0	802.3	653.8	5.403	SF
lone 1C-10H - Hz - Plan #1	400.0	400.0	8.4	7.0	6.207	CC, ES
lone 1C-10H - Hz - Plan #1	11,816.8	12,043.6	460.7	329.6	3.516	SF
lone 1E-10H - Hz - Plan #1	400.0	400.0	11.2	9.8	8.276	CC, ES
lone 1E-10H - Hz - Plan #1	11,816.8	12,061.6	458.2	327.5	3.504	SF
lone 1F-10H - Hz - Plan #1	300.0	300.0	19.6	18.6	19.530	CC, ES
lone 1F-10H - Hz - Plan #1	11,816.8	11,900.7	799.6	651.1	5.386	SF
lone 1G-10H - Hz - Plan #1	200.0	200.0	30.7	30.1	47.101	CC, ES
lone 1G-10H - Hz - Plan #1	11,816.8	12,135.7	1,214.9	1,068.2	8.281	SF
lone 42-10 (Existing) - Existing - Existing	9,079.7	7,231.0	555.0	514.1	13.541	CC, ES
lone 42-10 (Existing) - Existing - Existing	9,200.0	7,231.0	567.9	525.1	13.249	SF
lone 4-2-10 (Existing) - Existing - Existing	8,040.0	7,231.0	294.6	266.9	10.652	CC, ES, SF
lone 44-10 (Existing) - Existing - Existing	11,785.4	7,239.9	544.4	458.1	6.306	CC
lone 44-10 (Existing) - Existing - Existing	11,800.0	7,239.9	544.6	458.0	6.290	ES
lone 44-10 (Existing) - Existing - Existing	11,816.8	7,239.8	545.3	458.5	6.277	SF
lone 6-0-10 (Existing) - Existing - Existing	3,159.3	3,243.2	66.3	55.8	6.274	CC
lone 6-0-10 (Existing) - Existing - Existing	3,200.0	3,283.4	66.7	55.3	5.847	ES
lone 6-0-10 (Existing) - Existing - Existing	3,400.0	3,478.3	81.4	65.8	5.219	SF
lone 6-4-10 (Existing) - Existing - Existing	9,627.5	7,231.0	78.1	28.4	1.570	CC, ES, SF
lone 6-8-10 (Existing) - DD - Plan #1	11,816.8	7,322.8	411.1	322.2	4.626	CC, ES, SF
lone 8-6-10 (Existing) - DD - Plan #1	10,771.4	7,436.7	1,199.3	1,120.6	15.246	CC
lone 8-6-10 (Existing) - DD - Plan #1	10,800.0	7,436.7	1,199.6	1,120.5	15.157	ES
lone 8-6-10 (Existing) - DD - Plan #1	11,100.0	7,436.7	1,243.5	1,159.2	14.755	SF
McPeck #14-10 (Existing) - Existing - Existing	11,493.6	7,576.7	3,546.3	3,463.0	42.565	CC
McPeck #14-10 (Existing) - Existing - Existing	11,600.0	7,579.9	3,547.9	3,462.8	41.666	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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S10-T2N-R66W (lone)						
McPeek #14-10 (Existing) - Existing - Existing	11,816.8	7,585.8	3,561.0	3,472.1	40.058	SF
McPeek #24-10 (Existing) - Existing - Existing	11,703.1	7,316.7	2,072.1	1,986.9	24.317	CC, ES
McPeek #24-10 (Existing) - Existing - Existing	11,816.8	7,312.6	2,075.2	1,988.0	23.807	SF
S10-T2N-R66W (McPeek)						
McPeek 14-10 (Existing) - Existing - Existing	10,763.9	7,576.6	3,548.7	3,477.9	50.109	CC
McPeek 14-10 (Existing) - Existing - Existing	10,800.0	7,577.7	3,548.9	3,477.5	49.680	ES
McPeek 14-10 (Existing) - Existing - Existing	11,816.8	7,600.8	3,701.6	3,612.7	41.631	SF
McPeek 24-10 (Existing) - Existing - Existing	11,706.0	7,316.8	2,078.5	1,993.4	24.422	CC, ES
McPeek 24-10 (Existing) - Existing - Existing	11,816.8	7,312.8	2,081.4	1,994.4	23.920	SF
McPeek 2H-10H - Hz - Plan #1	6,924.6	7,016.5	1,547.7	1,512.0	43.296	CC
McPeek 2H-10H - Hz - Plan #1	11,816.8	11,907.5	1,548.7	1,403.0	10.629	ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #3														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	41.0	41.0	0.0	0.1	60.86	1,173.1	2,104.6	2,409.4						
100.0	100.0	141.0	141.0	0.2	0.2	60.86	1,173.1	2,104.6	2,409.4	2,409.1	0.39	6,246.639			
200.0	200.0	241.0	241.0	0.3	0.4	60.86	1,173.1	2,104.6	2,409.4	2,408.7	0.73	3,279.116			
300.0	300.0	341.0	341.0	0.5	0.6	60.86	1,173.1	2,104.6	2,409.4	2,408.4	1.08	2,223.040			
400.0	400.0	441.0	441.0	0.7	0.8	60.86	1,173.1	2,104.6	2,409.4	2,408.0	1.43	1,681.496			
500.0	500.0	541.0	541.0	0.8	0.9	60.86	1,173.1	2,104.6	2,409.4	2,407.7	1.78	1,352.114			
600.0	600.0	641.0	641.0	1.0	1.1	54.04	1,173.1	2,104.6	2,408.9	2,406.8	2.13	1,130.282			
700.0	700.0	741.0	741.0	1.2	1.3	54.10	1,173.1	2,104.6	2,407.4	2,404.9	2.48	969.935			
800.0	799.9	840.9	840.9	1.4	1.5	54.20	1,173.1	2,104.6	2,404.8	2,402.0	2.84	847.919			
900.0	899.7	940.7	940.7	1.6	1.6	54.35	1,173.1	2,104.6	2,401.3	2,398.1	3.20	751.359			
1,000.0	999.4	1,040.4	1,040.4	1.8	1.8	54.54	1,173.1	2,104.6	2,396.7	2,393.1	3.56	672.562			
1,100.0	1,098.9	1,139.9	1,139.9	2.0	2.0	54.77	1,173.1	2,104.6	2,391.1	2,387.2	3.94	606.672			
1,200.0	1,198.3	1,239.3	1,239.3	2.2	2.2	55.05	1,173.1	2,104.6	2,384.6	2,380.3	4.33	550.488			
1,300.0	1,297.4	1,338.4	1,338.4	2.5	2.3	55.36	1,173.1	2,104.6	2,377.1	2,372.4	4.74	501.823			
1,400.0	1,396.3	1,437.3	1,437.3	2.8	2.5	55.73	1,173.1	2,104.6	2,368.7	2,363.5	5.16	459.136			
1,500.0	1,494.9	1,535.9	1,535.9	3.1	2.7	56.13	1,173.1	2,104.6	2,359.3	2,353.7	5.60	421.313			
1,600.0	1,593.3	1,634.3	1,634.3	3.4	2.8	56.58	1,173.1	2,104.6	2,349.1	2,343.1	6.06	387.531			
1,700.0	1,691.2	1,732.2	1,732.2	3.8	3.0	57.08	1,173.1	2,104.6	2,338.1	2,331.5	6.55	357.162			
1,800.0	1,788.9	1,829.9	1,829.9	4.2	3.2	57.62	1,173.1	2,104.6	2,326.2	2,319.1	7.05	329.723			
1,900.0	1,886.3	1,927.3	1,927.3	4.6	3.4	58.08	1,173.1	2,104.6	2,314.0	2,306.4	7.58	305.469			
2,000.0	1,983.7	2,024.7	2,024.7	5.0	3.5	58.55	1,173.1	2,104.6	2,302.0	2,293.9	8.10	284.069			
2,100.0	2,081.2	2,122.2	2,122.2	5.4	3.7	59.02	1,173.1	2,104.6	2,290.1	2,281.4	8.64	265.092			
2,200.0	2,178.6	2,219.6	2,219.6	5.8	3.9	59.49	1,173.1	2,104.6	2,278.4	2,269.2	9.18	248.179			
2,300.0	2,276.1	2,317.1	2,317.1	6.2	4.0	59.97	1,173.1	2,104.6	2,266.8	2,257.1	9.73	233.032			
2,400.0	2,373.5	2,414.5	2,414.5	6.6	4.2	60.46	1,173.1	2,104.6	2,255.4	2,245.1	10.28	219.406			
2,500.0	2,470.9	2,511.9	2,511.9	7.0	4.4	60.95	1,173.1	2,104.6	2,244.2	2,233.3	10.84	207.094			
2,600.0	2,568.4	2,609.4	2,609.4	7.4	4.5	61.44	1,173.1	2,104.6	2,233.1	2,221.7	11.40	195.924			
2,700.0	2,665.8	2,706.8	2,706.8	7.8	4.7	61.94	1,173.1	2,104.6	2,222.2	2,210.3	11.96	185.754			
2,800.0	2,763.2	2,804.2	2,804.2	8.3	4.9	62.45	1,173.1	2,104.6	2,211.5	2,199.0	12.53	176.460			
2,900.0	2,860.7	2,901.7	2,901.7	8.7	5.1	62.96	1,173.1	2,104.6	2,201.0	2,187.9	13.11	167.940			
3,000.0	2,958.1	2,999.1	2,999.1	9.1	5.2	63.47	1,173.1	2,104.6	2,190.7	2,177.0	13.68	160.105			
3,100.0	3,055.6	3,096.6	3,096.6	9.5	5.4	63.99	1,173.1	2,104.6	2,180.5	2,166.2	14.26	152.881			
3,200.0	3,153.0	3,194.0	3,194.0	10.0	5.6	64.51	1,173.1	2,104.6	2,170.5	2,155.7	14.85	146.201			
3,300.0	3,250.4	3,291.4	3,291.4	10.4	5.7	65.04	1,173.1	2,104.6	2,160.7	2,145.3	15.43	140.011			
3,400.0	3,347.9	3,388.9	3,388.9	10.8	5.9	65.57	1,173.1	2,104.6	2,151.1	2,135.1	16.02	134.260			
3,500.0	3,445.3	3,486.3	3,486.3	11.2	6.1	66.11	1,173.1	2,104.6	2,141.7	2,125.1	16.61	128.907			
3,600.0	3,542.7	3,583.7	3,583.7	11.7	6.2	66.65	1,173.1	2,104.6	2,132.5	2,115.3	17.21	123.914			
3,700.0	3,640.2	3,681.2	3,681.2	12.1	6.4	67.19	1,173.1	2,104.6	2,123.5	2,105.7	17.81	119.247			
3,800.0	3,737.6	3,778.6	3,778.6	12.5	6.6	67.74	1,173.1	2,104.6	2,114.7	2,096.3	18.41	114.879			
3,815.0	3,752.2	3,793.2	3,793.2	12.6	6.6	67.82	1,173.1	2,104.6	2,113.4	2,094.9	18.50	114.248			
3,900.0	3,835.2	3,876.2	3,876.2	12.9	6.8	68.21	1,173.1	2,104.6	2,106.3	2,087.3	18.99	110.907			
4,000.0	3,933.1	4,948.8	4,911.5	13.3	9.8	72.61	1,159.0	1,878.7	2,098.4	2,076.9	21.47	97.743			
4,100.0	4,031.4	5,034.7	4,988.0	13.6	10.3	72.33	1,156.6	1,839.7	2,048.0	2,026.1	21.95	93.297			
4,200.0	4,130.0	5,121.1	5,064.9	14.0	10.8	72.01	1,154.2	1,800.4	1,998.1	1,975.7	22.41	89.159			
4,300.0	4,228.9	5,207.9	5,142.1	14.3	11.4	71.66	1,151.7	1,760.9	1,948.7	1,925.9	22.85	85.296			
4,400.0	4,328.0	5,295.0	5,219.7	14.6	11.9	71.27	1,149.2	1,721.3	1,899.8	1,876.6	23.26	81.679			
4,500.0	4,427.3	5,382.5	5,297.6	14.8	12.6	70.84	1,146.8	1,681.5	1,851.4	1,827.8	23.65	78.282			
4,600.0	4,526.8	5,470.3	5,375.7	15.0	13.2	70.36	1,144.3	1,641.6	1,803.5	1,779.5	24.02	75.085			
4,700.0	4,626.5	5,558.3	5,454.1	15.2	13.8	69.83	1,141.8	1,601.6	1,756.2	1,731.8	24.37	72.066			
4,800.0	4,726.3	5,646.6	5,532.7	15.4	14.5	69.24	1,139.3	1,561.4	1,709.3	1,684.6	24.70	69.207			
4,900.0	4,826.2	5,735.2	5,611.5	15.6	15.2	68.60	1,136.8	1,521.2	1,663.0	1,638.0	25.01	66.492			
5,000.0	4,926.1	5,823.9	5,690.5	15.7	15.9	67.89	1,134.3	1,480.8	1,617.3	1,592.0	25.31	63.904			

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,912.8	5,769.7	15.8	16.6	67.12	1,131.7	1,440.4	1,572.2	1,546.6	25.59	61.431		
5,115.0	5,041.1	5,926.2	5,781.6	15.8	16.7	73.84	1,131.4	1,434.3	1,565.5	1,539.9	25.64	61.065		
5,200.0	5,126.1	6,001.9	5,848.9	15.9	17.3	73.53	1,129.2	1,399.9	1,527.5	1,501.7	25.89	59.008		
5,300.0	5,226.1	6,090.9	5,928.2	16.0	18.0	73.14	1,126.7	1,359.5	1,482.9	1,456.8	26.19	56.624		
5,400.0	5,326.1	6,179.9	6,007.4	16.1	18.7	72.72	1,124.2	1,319.0	1,438.4	1,411.9	26.50	54.278		
5,500.0	5,426.1	6,268.9	6,086.7	16.2	19.4	72.28	1,121.7	1,278.5	1,393.9	1,367.1	26.82	51.971		
5,600.0	5,526.1	6,357.9	6,165.9	16.3	20.2	71.81	1,119.1	1,238.0	1,349.5	1,322.3	27.15	49.702		
5,700.0	5,626.1	6,447.0	6,245.2	16.4	20.9	71.31	1,116.6	1,197.6	1,305.2	1,277.7	27.50	47.469		
5,800.0	5,726.1	6,500.0	6,292.9	16.5	21.3	71.00	1,115.3	1,174.4	1,262.5	1,234.8	27.75	45.498		
5,900.0	5,826.1	6,521.8	6,312.9	16.6	21.5	70.88	1,114.9	1,165.8	1,223.7	1,195.8	27.92	43.831		
6,000.0	5,926.1	6,550.0	6,339.2	16.7	21.6	70.73	1,114.6	1,155.7	1,189.6	1,161.5	28.11	42.323		
6,100.0	6,026.1	6,600.0	6,386.7	16.8	21.9	70.47	1,114.4	1,140.2	1,160.2	1,131.8	28.35	40.923		
6,200.0	6,126.1	6,630.6	6,416.4	16.9	22.0	70.33	1,114.6	1,132.4	1,135.7	1,107.1	28.54	39.787		
6,300.0	6,226.1	6,669.0	6,453.9	17.0	22.1	70.16	1,115.2	1,124.3	1,116.3	1,087.6	28.75	38.823		
6,400.0	6,326.1	6,700.0	6,484.4	17.2	22.2	70.04	1,115.8	1,119.3	1,102.3	1,073.4	28.95	38.082		
6,500.0	6,426.1	6,750.0	6,534.1	17.3	22.3	69.87	1,117.3	1,113.9	1,093.6	1,064.4	29.18	37.481		
6,604.7	6,530.8	6,800.0	6,584.0	17.4	22.4	69.73	1,119.4	1,112.0	1,090.5	1,061.1	29.41	37.082		
6,612.7	6,538.8	6,800.0	6,584.0	17.4	22.4	-110.27	1,119.4	1,112.0	1,090.5	1,061.0	29.41	37.071 CC, ES, SF		
6,650.0	6,576.1	6,800.0	6,584.0	17.4	22.4	-110.20	1,119.4	1,112.0	1,091.4	1,062.0	29.43	37.080		
6,700.0	6,625.8	6,827.7	6,611.7	17.4	22.4	-110.11	1,120.8	1,112.4	1,094.9	1,065.4	29.46	37.171		
6,750.0	6,675.1	6,850.0	6,633.9	17.3	22.4	-109.87	1,122.0	1,113.5	1,101.0	1,071.6	29.40	37.446		
6,800.0	6,723.7	6,866.2	6,650.0	17.2	22.4	-109.43	1,123.0	1,114.7	1,109.7	1,080.4	29.28	37.904		
6,850.0	6,771.3	6,884.6	6,668.4	17.1	22.3	-108.86	1,124.1	1,116.6	1,120.8	1,091.7	29.10	38.513		
6,900.0	6,817.8	6,900.0	6,683.6	16.9	22.3	-108.08	1,125.1	1,118.5	1,134.5	1,105.6	28.88	39.283		
6,950.0	6,862.9	6,919.3	6,702.6	16.7	22.3	-107.22	1,126.5	1,121.3	1,150.4	1,121.8	28.63	40.180		
7,000.0	6,906.3	6,950.0	6,732.7	16.4	22.2	-106.51	1,128.8	1,126.8	1,169.0	1,140.6	28.39	41.177		
7,050.0	6,948.0	6,950.0	6,732.7	16.1	22.2	-104.81	1,128.8	1,126.8	1,189.2	1,161.1	28.07	42.369		
7,100.0	6,987.6	6,950.0	6,732.7	15.9	22.2	-102.82	1,128.8	1,126.8	1,211.9	1,184.2	27.75	43.668		
7,150.0	7,024.9	6,977.2	6,759.1	15.6	22.1	-101.55	1,130.9	1,132.8	1,236.1	1,208.6	27.50	44.953		
7,200.0	7,059.9	7,000.0	6,781.1	15.3	22.1	-99.99	1,132.9	1,138.6	1,262.5	1,235.3	27.25	46.335		
7,250.0	7,092.3	7,000.0	6,781.1	15.0	22.1	-97.35	1,132.9	1,138.6	1,290.2	1,263.2	26.98	47.816		
7,300.0	7,121.9	7,000.0	6,781.1	14.7	22.1	-94.46	1,132.9	1,138.6	1,319.6	1,292.9	26.73	49.360		
7,350.0	7,148.7	7,016.9	6,797.3	14.4	22.0	-92.12	1,134.4	1,143.3	1,350.2	1,323.7	26.52	50.921		
7,400.0	7,172.4	7,023.7	6,803.8	14.2	22.0	-89.16	1,135.0	1,145.3	1,381.9	1,355.6	26.28	52.588		
7,450.0	7,193.1	7,029.4	6,809.2	13.9	21.9	-85.99	1,135.5	1,147.0	1,414.6	1,388.6	26.02	54.364		
7,500.0	7,210.5	7,033.8	6,813.3	13.8	21.9	-82.64	1,135.9	1,148.4	1,448.0	1,422.3	25.73	56.276		
7,550.0	7,224.6	7,050.0	6,828.6	13.6	21.9	-79.81	1,137.5	1,153.6	1,482.2	1,456.7	25.46	58.224		
7,600.0	7,235.3	7,050.0	6,828.6	13.5	21.9	-76.11	1,137.5	1,153.6	1,516.6	1,491.5	25.09	60.446		
7,650.0	7,242.6	7,050.0	6,828.6	13.5	21.9	-72.41	1,137.5	1,153.6	1,551.2	1,526.5	24.70	62.812		
7,700.0	7,246.4	7,050.0	6,828.6	13.5	21.9	-68.77	1,137.5	1,153.6	1,585.9	1,561.6	24.30	65.262		
7,729.7	7,247.0	7,050.0	6,828.6	13.6	21.9	-66.66	1,137.5	1,153.6	1,606.5	1,582.4	24.08	66.717		
7,800.0	7,247.0	7,050.0	6,828.6	13.7	21.9	-66.66	1,137.5	1,153.6	1,655.9	1,631.7	24.26	68.271		
7,900.0	7,247.0	7,033.0	6,812.5	14.2	21.9	-65.82	1,135.9	1,148.1	1,728.5	1,704.0	24.54	70.449		
8,000.0	7,247.0	7,029.7	6,809.4	14.8	21.9	-65.66	1,135.5	1,147.1	1,803.8	1,778.7	25.09	71.888		
8,100.0	7,247.0	7,026.5	6,806.4	15.6	22.0	-65.51	1,135.3	1,146.1	1,881.5	1,855.7	25.80	72.925		
8,200.0	7,247.0	7,023.3	6,803.4	16.5	22.0	-65.35	1,135.0	1,145.2	1,961.1	1,934.4	26.64	73.627		
8,300.0	7,247.0	7,020.1	6,800.4	17.6	22.0	-65.20	1,134.7	1,144.3	2,042.5	2,014.9	27.58	74.061		
8,400.0	7,247.0	7,017.0	6,797.4	18.8	22.0	-65.05	1,134.4	1,143.3	2,125.5	2,096.9	28.61	74.291		
8,500.0	7,247.0	7,000.0	6,781.1	20.1	22.1	-64.22	1,132.9	1,138.6	2,210.0	2,180.4	29.57	74.729		
8,600.0	7,247.0	7,000.0	6,781.1	21.4	22.1	-64.22	1,132.9	1,138.6	2,295.5	2,264.8	30.76	74.620		
8,700.0	7,247.0	7,000.0	6,781.1	22.8	22.1	-64.22	1,132.9	1,138.6	2,382.2	2,350.2	32.00	74.435		
8,800.0	7,247.0	7,000.0	6,781.1	24.2	22.1	-64.22	1,132.9	1,138.6	2,469.9	2,436.7	33.29	74.197		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #3													Offset Site Error:	0.0 ft
Survey Program: 0-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		
8,900.0	7,247.0	7,000.0	6,781.1	25.7	22.1	-64.22	1,132.9	1,138.6	2,558.5	2,523.9	34.61	73.926		
9,000.0	7,247.0	7,000.0	6,781.1	27.2	22.1	-64.22	1,132.9	1,138.6	2,648.0	2,612.0	35.96	73.636		
9,100.0	7,247.0	7,000.0	6,781.1	28.7	22.1	-64.22	1,132.9	1,138.6	2,738.1	2,700.8	37.34	73.336		
9,200.0	7,247.0	7,000.0	6,781.1	30.3	22.1	-64.22	1,132.9	1,138.6	2,828.9	2,790.2	38.73	73.032		
9,300.0	7,247.0	7,000.0	6,781.1	31.9	22.1	-64.22	1,132.9	1,138.6	2,920.3	2,880.2	40.15	72.732		
9,400.0	7,247.0	7,000.0	6,781.1	33.5	22.1	-64.22	1,132.9	1,138.6	3,012.3	2,970.7	41.59	72.436		
9,500.0	7,247.0	7,000.0	6,781.1	35.1	22.1	-64.22	1,132.9	1,138.6	3,104.7	3,061.7	43.03	72.149		
9,600.0	7,247.0	6,982.6	6,764.4	36.7	22.1	-63.39	1,131.4	1,134.1	3,197.5	3,153.3	44.20	72.338		
9,700.0	7,247.0	6,980.0	6,761.9	38.3	22.1	-63.26	1,131.2	1,133.5	3,290.8	3,245.1	45.61	72.142		
9,800.0	7,247.0	6,977.4	6,759.3	40.0	22.1	-63.14	1,131.0	1,132.8	3,384.4	3,337.4	47.03	71.956		
9,900.0	7,247.0	6,974.8	6,756.8	41.6	22.1	-63.02	1,130.7	1,132.2	3,478.4	3,430.0	48.46	71.780		
10,000.0	7,247.0	6,972.2	6,754.4	43.3	22.2	-62.89	1,130.5	1,131.6	3,572.7	3,522.9	49.89	71.614		
10,100.0	7,247.0	6,969.7	6,751.9	45.0	22.2	-62.78	1,130.3	1,131.1	3,667.4	3,616.0	51.32	71.458		
10,200.0	7,247.0	6,950.0	6,732.7	46.6	22.2	-61.85	1,128.8	1,126.8	3,762.4	3,710.0	52.40	71.804		
10,300.0	7,247.0	6,950.0	6,732.7	48.3	22.2	-61.85	1,128.8	1,126.8	3,857.5	3,803.6	53.88	71.596		
10,400.0	7,247.0	6,950.0	6,732.7	50.0	22.2	-61.85	1,128.8	1,126.8	3,952.8	3,897.5	55.36	71.398		
10,500.0	7,247.0	6,950.0	6,732.7	51.7	22.2	-61.85	1,128.8	1,126.8	4,048.4	3,991.6	56.85	71.209		
10,600.0	7,247.0	6,950.0	6,732.7	53.4	22.2	-61.85	1,128.8	1,126.8	4,144.2	4,085.8	58.35	71.028		
10,700.0	7,247.0	6,950.0	6,732.7	55.1	22.2	-61.85	1,128.8	1,126.8	4,240.2	4,180.3	59.84	70.855		
10,800.0	7,247.0	6,950.0	6,732.7	56.8	22.2	-61.85	1,128.8	1,126.8	4,336.3	4,275.0	61.34	70.690		
10,900.0	7,247.0	6,950.0	6,732.7	58.5	22.2	-61.85	1,128.8	1,126.8	4,432.7	4,369.8	62.85	70.533		
11,000.0	7,247.0	6,950.0	6,732.7	60.2	22.2	-61.85	1,128.8	1,126.8	4,529.1	4,464.8	64.35	70.382		
11,100.0	7,247.0	6,950.0	6,732.7	61.9	22.2	-61.85	1,128.8	1,126.8	4,625.8	4,559.9	65.86	70.238		
11,200.0	7,247.0	6,950.0	6,732.7	63.6	22.2	-61.85	1,128.8	1,126.8	4,722.6	4,655.2	67.37	70.101		
11,300.0	7,247.0	6,950.0	6,732.7	65.4	22.2	-61.85	1,128.8	1,126.8	4,819.5	4,750.6	68.88	69.969		
11,400.0	7,247.0	6,950.0	6,732.7	67.1	22.2	-61.85	1,128.8	1,126.8	4,916.5	4,846.1	70.39	69.842		
11,500.0	7,247.0	6,950.0	6,732.7	68.8	22.2	-61.85	1,128.8	1,126.8	5,013.7	4,941.7	71.91	69.721		
11,600.0	7,247.0	6,950.0	6,732.7	70.5	22.2	-61.85	1,128.8	1,126.8	5,110.9	5,037.5	73.43	69.605		
11,700.0	7,247.0	6,950.0	6,732.7	72.2	22.2	-61.85	1,128.8	1,126.8	5,208.3	5,133.3	74.95	69.493		
11,800.0	7,247.0	6,931.0	6,714.2	74.0	22.3	-60.98	1,127.3	1,123.3	5,305.6	5,229.7	75.87	69.932		
11,816.8	7,247.0	6,930.7	6,713.8	74.2	22.3	-60.96	1,127.3	1,123.2	5,322.0	5,245.9	76.11	69.925		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #4														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	41.0	41.0	0.0	0.1	60.86	1,173.1	2,104.6	2,409.4						
100.0	100.0	141.0	141.0	0.2	0.2	60.86	1,173.1	2,104.6	2,409.4	2,409.1	0.39	6,246.639			
200.0	200.0	241.0	241.0	0.3	0.4	60.86	1,173.1	2,104.6	2,409.4	2,408.7	0.73	3,279.116			
300.0	300.0	341.0	341.0	0.5	0.6	60.86	1,173.1	2,104.6	2,409.4	2,408.4	1.08	2,223.040			
400.0	400.0	441.0	441.0	0.7	0.8	60.86	1,173.1	2,104.6	2,409.4	2,408.0	1.43	1,681.496			
500.0	500.0	541.0	541.0	0.8	0.9	60.86	1,173.1	2,104.6	2,409.4	2,407.7	1.78	1,352.114			
600.0	600.0	641.0	641.0	1.0	1.1	54.04	1,173.1	2,104.6	2,408.9	2,406.8	2.13	1,130.282			
700.0	700.0	741.0	741.0	1.2	1.3	54.10	1,173.1	2,104.6	2,407.4	2,404.9	2.48	969.935			
800.0	799.9	840.9	840.9	1.4	1.5	54.20	1,173.1	2,104.6	2,404.8	2,402.0	2.84	847.919			
900.0	899.7	940.7	940.7	1.6	1.6	54.35	1,173.1	2,104.6	2,401.3	2,398.1	3.20	751.359			
1,000.0	999.4	1,040.4	1,040.4	1.8	1.8	54.54	1,173.1	2,104.6	2,396.7	2,393.1	3.56	672.562			
1,100.0	1,098.9	1,139.9	1,139.9	2.0	2.0	54.77	1,173.1	2,104.6	2,391.1	2,387.2	3.94	606.672			
1,200.0	1,198.3	1,239.3	1,239.3	2.2	2.2	55.05	1,173.1	2,104.6	2,384.6	2,380.3	4.33	550.488			
1,300.0	1,297.4	1,338.4	1,338.4	2.5	2.3	55.36	1,173.1	2,104.6	2,377.1	2,372.4	4.74	501.823			
1,400.0	1,396.3	1,437.3	1,437.3	2.8	2.5	55.73	1,173.1	2,104.6	2,368.7	2,363.5	5.16	459.136			
1,500.0	1,494.9	1,535.9	1,535.9	3.1	2.7	56.13	1,173.1	2,104.6	2,359.3	2,353.7	5.60	421.313			
1,600.0	1,593.3	1,634.3	1,634.3	3.4	2.8	56.58	1,173.1	2,104.6	2,349.1	2,343.1	6.06	387.531			
1,700.0	1,691.2	1,732.2	1,732.2	3.8	3.0	57.08	1,173.1	2,104.6	2,338.1	2,331.5	6.55	357.162			
1,800.0	1,788.9	1,829.9	1,829.9	4.2	3.2	57.62	1,173.1	2,104.6	2,326.2	2,319.1	7.05	329.723			
1,900.0	1,886.3	1,927.3	1,927.3	4.6	3.4	58.08	1,173.1	2,104.6	2,314.0	2,306.4	7.58	305.469			
2,000.0	1,983.7	2,024.7	2,024.7	5.0	3.5	58.55	1,173.1	2,104.6	2,302.0	2,293.9	8.10	284.069			
2,100.0	2,081.2	2,122.2	2,122.2	5.4	3.7	59.02	1,173.1	2,104.6	2,290.1	2,281.4	8.64	265.092			
2,200.0	2,178.6	2,219.6	2,219.6	5.8	3.9	59.49	1,173.1	2,104.6	2,278.4	2,269.2	9.18	248.179			
2,300.0	2,276.1	2,317.1	2,317.1	6.2	4.0	59.97	1,173.1	2,104.6	2,266.8	2,257.1	9.73	233.032			
2,400.0	2,373.5	2,414.5	2,414.5	6.6	4.2	60.46	1,173.1	2,104.6	2,255.4	2,245.1	10.28	219.406			
2,500.0	2,470.9	2,511.9	2,511.9	7.0	4.4	60.95	1,173.1	2,104.6	2,244.2	2,233.3	10.84	207.094			
2,600.0	2,568.4	2,609.4	2,609.4	7.4	4.5	61.44	1,173.1	2,104.6	2,233.1	2,221.7	11.40	195.924			
2,700.0	2,665.8	2,706.8	2,706.8	7.8	4.7	61.94	1,173.1	2,104.6	2,222.2	2,210.3	11.96	185.754			
2,800.0	2,763.2	2,804.2	2,804.2	8.3	4.9	62.45	1,173.1	2,104.6	2,211.5	2,199.0	12.53	176.460			
2,900.0	2,860.7	2,901.7	2,901.7	8.7	5.1	62.96	1,173.1	2,104.6	2,201.0	2,187.9	13.11	167.940			
3,000.0	2,958.1	3,631.3	3,620.1	9.1	6.7	66.15	1,168.2	2,002.0	2,183.1	2,168.2	14.91	146.387			
3,100.0	3,055.6	3,723.2	3,707.8	9.5	7.0	66.48	1,166.9	1,974.6	2,145.3	2,129.8	15.49	138.542			
3,200.0	3,153.0	3,815.1	3,795.5	10.0	7.3	66.81	1,165.6	1,947.2	2,107.6	2,091.5	16.06	131.233			
3,300.0	3,250.4	3,907.0	3,883.2	10.4	7.7	67.16	1,164.3	1,919.8	2,069.9	2,053.3	16.64	124.413			
3,400.0	3,347.9	3,998.8	3,970.9	10.8	8.1	67.52	1,163.0	1,892.4	2,032.3	2,015.1	17.22	118.036			
3,500.0	3,445.3	4,090.7	4,058.6	11.2	8.5	67.89	1,161.6	1,865.0	1,994.8	1,977.0	17.80	112.065			
3,600.0	3,542.7	4,182.6	4,146.3	11.7	8.9	68.27	1,160.3	1,837.7	1,957.3	1,938.9	18.38	106.465			
3,700.0	3,640.2	4,274.5	4,234.0	12.1	9.3	68.67	1,159.0	1,810.3	1,919.9	1,901.0	18.97	101.204			
3,800.0	3,737.6	4,366.4	4,321.7	12.5	9.7	69.09	1,157.7	1,782.9	1,882.6	1,863.1	19.56	96.256			
3,815.0	3,752.2	4,380.1	4,334.8	12.6	9.8	69.15	1,157.5	1,778.8	1,877.0	1,857.4	19.65	95.539			
3,900.0	3,835.2	4,458.4	4,409.5	12.9	10.2	69.19	1,156.4	1,755.4	1,845.6	1,825.5	20.12	91.718			
4,000.0	3,933.1	4,550.9	4,497.8	13.3	10.6	69.20	1,155.1	1,727.9	1,809.3	1,788.6	20.66	87.575			
4,100.0	4,031.4	4,643.8	4,586.4	13.6	11.1	69.18	1,153.8	1,700.2	1,773.6	1,752.4	21.17	83.762			
4,200.0	4,130.0	4,737.0	4,675.4	14.0	11.6	69.12	1,152.4	1,672.4	1,738.5	1,716.8	21.66	80.245			
4,300.0	4,228.9	4,830.6	4,764.8	14.3	12.0	69.03	1,151.1	1,644.5	1,704.0	1,681.9	22.13	76.993			
4,400.0	4,328.0	4,924.6	4,854.4	14.6	12.5	68.89	1,149.8	1,616.5	1,670.2	1,647.6	22.58	73.979			
4,500.0	4,427.3	5,018.8	4,944.3	14.8	13.0	68.71	1,148.4	1,588.4	1,636.9	1,613.9	23.00	71.179			
4,600.0	4,526.8	5,113.3	5,034.5	15.0	13.5	68.48	1,147.1	1,560.2	1,604.3	1,580.9	23.40	68.571			
4,700.0	4,626.5	5,208.0	5,124.9	15.2	14.0	68.20	1,145.7	1,532.0	1,572.3	1,548.5	23.77	66.137			
4,800.0	4,726.3	5,302.9	5,215.5	15.4	14.5	67.87	1,144.4	1,503.7	1,540.8	1,516.7	24.13	63.861			
4,900.0	4,826.2	5,398.0	5,306.3	15.6	15.0	67.47	1,143.0	1,475.4	1,510.0	1,485.6	24.46	61.728			
5,000.0	4,926.1	5,493.3	5,397.2	15.7	15.5	67.02	1,141.6	1,447.0	1,479.9	1,455.1	24.78	59.725			

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,588.7	5,488.3	15.8	16.0	66.50	1,140.3	1,418.5	1,450.4	1,425.3	25.08	57.839		
5,115.0	5,041.1	5,603.0	5,501.9	15.8	16.1	73.27	1,140.1	1,414.3	1,446.1	1,420.9	25.12	57.562		
5,200.0	5,126.1	5,684.1	5,579.4	15.9	16.5	73.02	1,138.9	1,390.1	1,421.4	1,396.0	25.38	56.014		
5,300.0	5,226.1	5,779.6	5,670.5	16.0	17.1	72.72	1,137.6	1,361.6	1,392.4	1,366.7	25.68	54.224		
5,400.0	5,326.1	5,875.0	5,761.5	16.1	17.6	72.40	1,136.2	1,333.2	1,363.5	1,337.5	25.99	52.467		
5,500.0	5,426.1	5,970.4	5,852.6	16.2	18.1	72.08	1,134.8	1,304.7	1,334.5	1,308.2	26.30	50.743		
5,600.0	5,526.1	6,065.9	5,943.7	16.3	18.6	71.73	1,133.5	1,276.3	1,305.7	1,279.1	26.62	49.051		
5,700.0	5,626.1	6,161.3	6,034.8	16.4	19.1	71.38	1,132.1	1,247.8	1,276.9	1,249.9	26.94	47.391		
5,800.0	5,726.1	6,256.8	6,125.9	16.5	19.7	71.00	1,130.8	1,219.4	1,248.1	1,220.8	27.27	45.761		
5,900.0	5,826.1	6,352.2	6,217.0	16.6	20.2	70.61	1,129.4	1,190.9	1,219.4	1,191.7	27.61	44.162		
6,000.0	5,926.1	6,447.7	6,308.1	16.7	20.7	70.20	1,128.0	1,162.5	1,190.7	1,162.7	27.95	42.593		
6,100.0	6,026.1	6,523.7	6,380.7	16.8	21.1	69.86	1,127.0	1,139.9	1,162.3	1,134.1	28.26	41.134		
6,200.0	6,126.1	6,550.0	6,406.1	16.9	21.2	69.75	1,126.7	1,132.9	1,138.0	1,109.6	28.44	40.016		
6,300.0	6,226.1	6,600.0	6,454.9	17.0	21.4	69.56	1,126.7	1,122.3	1,118.5	1,089.8	28.67	39.010		
6,400.0	6,326.1	6,650.0	6,504.4	17.2	21.6	69.40	1,127.2	1,115.0	1,104.5	1,075.6	28.90	38.220		
6,500.0	6,426.1	6,678.5	6,532.7	17.3	21.6	69.33	1,127.8	1,112.4	1,095.7	1,066.6	29.08	37.680		
6,604.7	6,530.8	6,720.4	6,574.6	17.4	21.6	69.24	1,128.9	1,110.5	1,092.4	1,063.1	29.29	37.299		
6,607.1	6,533.3	6,721.4	6,575.6	17.4	21.6	-110.76	1,128.9	1,110.5	1,092.4	1,063.1	29.29	37.294 CC, ES		
6,650.0	6,576.1	6,750.0	6,604.2	17.4	21.7	-110.80	1,129.9	1,110.7	1,093.5	1,064.1	29.37	37.228 SF		
6,700.0	6,625.8	6,750.0	6,604.2	17.4	21.7	-110.54	1,129.9	1,110.7	1,097.0	1,067.6	29.34	37.395		
6,750.0	6,675.1	6,777.9	6,632.1	17.3	21.6	-110.32	1,131.1	1,112.0	1,103.0	1,073.7	29.29	37.658		
6,800.0	6,723.7	6,800.0	6,654.0	17.2	21.6	-109.93	1,132.1	1,113.8	1,111.7	1,082.6	29.18	38.103		
6,850.0	6,771.3	6,815.6	6,669.5	17.1	21.6	-109.31	1,132.8	1,115.4	1,123.0	1,094.0	29.00	38.727		
6,900.0	6,817.8	6,833.4	6,687.1	16.9	21.6	-108.56	1,133.8	1,117.7	1,136.6	1,107.9	28.78	39.495		
6,950.0	6,862.9	6,850.0	6,703.5	16.7	21.6	-107.63	1,134.7	1,120.2	1,152.7	1,124.2	28.53	40.409		
7,000.0	6,906.3	6,866.6	6,719.8	16.4	21.5	-106.52	1,135.7	1,123.1	1,171.1	1,142.8	28.25	41.452		
7,050.0	6,948.0	6,881.7	6,734.6	16.1	21.5	-105.20	1,136.7	1,126.1	1,191.6	1,163.7	27.96	42.614		
7,100.0	6,987.6	6,900.0	6,752.4	15.9	21.4	-103.80	1,137.9	1,130.1	1,214.3	1,186.6	27.68	43.866		
7,150.0	7,024.9	6,900.0	6,752.4	15.6	21.4	-101.60	1,137.9	1,130.1	1,238.9	1,211.5	27.38	45.251		
7,200.0	7,059.9	6,920.7	6,772.4	15.3	21.4	-99.91	1,139.3	1,135.2	1,265.1	1,238.0	27.12	46.644		
7,250.0	7,092.3	6,931.4	6,782.7	15.0	21.3	-97.66	1,140.1	1,138.0	1,293.1	1,266.2	26.87	48.125		
7,300.0	7,121.9	6,950.0	6,800.5	14.7	21.3	-95.56	1,141.5	1,143.3	1,322.6	1,296.0	26.64	49.645		
7,350.0	7,148.7	6,950.0	6,800.5	14.4	21.3	-92.47	1,141.5	1,143.3	1,353.2	1,326.8	26.39	51.270		
7,400.0	7,172.4	6,950.0	6,800.5	14.2	21.3	-89.16	1,141.5	1,143.3	1,385.1	1,359.0	26.14	52.990		
7,450.0	7,193.1	6,950.0	6,800.5	13.9	21.3	-85.67	1,141.5	1,143.3	1,418.0	1,392.1	25.86	54.837		
7,500.0	7,210.5	6,966.8	6,816.4	13.8	21.2	-82.91	1,142.9	1,148.5	1,451.4	1,425.8	25.60	56.695		
7,550.0	7,224.6	6,970.2	6,819.6	13.6	21.2	-79.39	1,143.2	1,149.6	1,485.6	1,460.3	25.27	58.785		
7,600.0	7,235.3	6,972.4	6,821.7	13.5	21.2	-75.77	1,143.3	1,150.3	1,520.1	1,495.2	24.90	61.038		
7,650.0	7,242.6	6,973.4	6,822.6	13.5	21.2	-72.10	1,143.4	1,150.6	1,554.9	1,530.4	24.51	63.440		
7,700.0	7,246.4	6,973.2	6,822.4	13.5	21.2	-68.44	1,143.4	1,150.6	1,589.7	1,565.6	24.11	65.938		
7,729.7	7,247.0	6,972.5	6,821.8	13.6	21.2	-66.28	1,143.4	1,150.3	1,610.3	1,586.5	23.88	67.430		
7,800.0	7,247.0	6,970.5	6,819.9	13.7	21.2	-66.18	1,143.2	1,149.7	1,659.9	1,635.9	24.04	69.042		
7,900.0	7,247.0	6,967.6	6,817.2	14.2	21.2	-66.04	1,142.9	1,148.8	1,732.9	1,708.5	24.43	70.931		
8,000.0	7,247.0	6,950.0	6,800.5	14.8	21.3	-65.18	1,141.5	1,143.3	1,808.6	1,783.7	24.87	72.717		
8,100.0	7,247.0	6,950.0	6,800.5	15.6	21.3	-65.18	1,141.5	1,143.3	1,886.3	1,860.7	25.60	73.677		
8,200.0	7,247.0	6,950.0	6,800.5	16.5	21.3	-65.18	1,141.5	1,143.3	1,966.1	1,939.6	26.46	74.294		
8,300.0	7,247.0	6,950.0	6,800.5	17.6	21.3	-65.18	1,141.5	1,143.3	2,047.6	2,020.2	27.43	74.639		
8,400.0	7,247.0	6,950.0	6,800.5	18.8	21.3	-65.18	1,141.5	1,143.3	2,130.7	2,102.3	28.50	74.775		
8,500.0	7,247.0	6,950.0	6,800.5	20.1	21.3	-65.18	1,141.5	1,143.3	2,215.3	2,185.6	29.63	74.757		
8,600.0	7,247.0	6,950.0	6,800.5	21.4	21.3	-65.18	1,141.5	1,143.3	2,301.0	2,270.2	30.83	74.629		
8,700.0	7,247.0	6,950.0	6,800.5	22.8	21.3	-65.18	1,141.5	1,143.3	2,387.9	2,355.8	32.08	74.424		
8,800.0	7,247.0	6,950.0	6,800.5	24.2	21.3	-65.18	1,141.5	1,143.3	2,475.7	2,442.3	33.38	74.168		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #4													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,247.0	6,950.0	6,800.5	25.7	21.3	-65.18	1,141.5	1,143.3	2,564.5	2,529.7	34.71	73.879		
9,000.0	7,247.0	6,950.0	6,800.5	27.2	21.3	-65.18	1,141.5	1,143.3	2,654.0	2,617.9	36.07	73.571		
9,100.0	7,247.0	6,950.0	6,800.5	28.7	21.3	-65.18	1,141.5	1,143.3	2,744.3	2,706.8	37.46	73.254		
9,200.0	7,247.0	6,950.0	6,800.5	30.3	21.3	-65.18	1,141.5	1,143.3	2,835.2	2,796.3	38.87	72.936		
9,300.0	7,247.0	6,930.9	6,782.3	31.9	21.3	-64.26	1,140.1	1,137.9	2,926.5	2,886.5	40.02	73.125		
9,400.0	7,247.0	6,928.6	6,780.0	33.5	21.3	-64.14	1,139.9	1,137.2	3,018.5	2,977.1	41.42	72.880		
9,500.0	7,247.0	6,926.2	6,777.7	35.1	21.3	-64.03	1,139.7	1,136.6	3,111.0	3,068.2	42.83	72.643		
9,600.0	7,247.0	6,923.9	6,775.5	36.7	21.4	-63.92	1,139.6	1,136.0	3,203.9	3,159.7	44.24	72.415		
9,700.0	7,247.0	6,921.6	6,773.3	38.3	21.4	-63.81	1,139.4	1,135.4	3,297.3	3,251.6	45.67	72.198		
9,800.0	7,247.0	6,919.3	6,771.1	40.0	21.4	-63.70	1,139.2	1,134.8	3,391.0	3,343.9	47.10	71.991		
9,900.0	7,247.0	6,900.0	6,752.4	41.6	21.4	-62.78	1,137.9	1,130.1	3,485.2	3,437.0	48.22	72.279		
10,000.0	7,247.0	6,900.0	6,752.4	43.3	21.4	-62.78	1,137.9	1,130.1	3,579.5	3,529.8	49.69	72.031		
10,100.0	7,247.0	6,900.0	6,752.4	45.0	21.4	-62.78	1,137.9	1,130.1	3,674.2	3,623.0	51.18	71.794		
10,200.0	7,247.0	6,900.0	6,752.4	46.6	21.4	-62.78	1,137.9	1,130.1	3,769.1	3,716.4	52.66	71.568		
10,300.0	7,247.0	6,900.0	6,752.4	48.3	21.4	-62.78	1,137.9	1,130.1	3,864.3	3,810.1	54.16	71.352		
10,400.0	7,247.0	6,900.0	6,752.4	50.0	21.4	-62.78	1,137.9	1,130.1	3,959.7	3,904.0	55.66	71.146		
10,500.0	7,247.0	6,900.0	6,752.4	51.7	21.4	-62.78	1,137.9	1,130.1	4,055.3	3,998.2	57.16	70.949		
10,600.0	7,247.0	6,900.0	6,752.4	53.4	21.4	-62.78	1,137.9	1,130.1	4,151.2	4,092.5	58.66	70.762		
10,700.0	7,247.0	6,900.0	6,752.4	55.1	21.4	-62.78	1,137.9	1,130.1	4,247.2	4,187.0	60.17	70.583		
10,800.0	7,247.0	6,900.0	6,752.4	56.8	21.4	-62.78	1,137.9	1,130.1	4,343.4	4,281.7	61.69	70.412		
10,900.0	7,247.0	6,900.0	6,752.4	58.5	21.4	-62.78	1,137.9	1,130.1	4,439.8	4,376.6	63.20	70.248		
11,000.0	7,247.0	6,900.0	6,752.4	60.2	21.4	-62.78	1,137.9	1,130.1	4,536.3	4,471.6	64.72	70.092		
11,100.0	7,247.0	6,900.0	6,752.4	61.9	21.4	-62.78	1,137.9	1,130.1	4,633.0	4,566.8	66.24	69.942		
11,200.0	7,247.0	6,900.0	6,752.4	63.6	21.4	-62.78	1,137.9	1,130.1	4,729.8	4,662.1	67.76	69.799		
11,300.0	7,247.0	6,900.0	6,752.4	65.4	21.4	-62.78	1,137.9	1,130.1	4,826.8	4,757.5	69.29	69.662		
11,400.0	7,247.0	6,900.0	6,752.4	67.1	21.4	-62.78	1,137.9	1,130.1	4,923.9	4,853.1	70.82	69.531		
11,500.0	7,247.0	6,900.0	6,752.4	68.8	21.4	-62.78	1,137.9	1,130.1	5,021.1	4,948.7	72.34	69.405		
11,600.0	7,247.0	6,900.0	6,752.4	70.5	21.4	-62.78	1,137.9	1,130.1	5,118.4	5,044.5	73.87	69.284		
11,700.0	7,247.0	6,881.0	6,734.0	72.2	21.5	-61.88	1,136.6	1,126.0	5,215.6	5,140.8	74.82	69.707		
11,800.0	7,247.0	6,879.2	6,732.2	74.0	21.5	-61.80	1,136.5	1,125.6	5,313.1	5,236.8	76.29	69.647		
11,816.8	7,247.0	6,878.9	6,731.9	74.2	21.5	-61.79	1,136.5	1,125.5	5,329.5	5,253.0	76.53	69.637		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #11 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-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	-179.37	-3,212.2	-35.2	3,212.4					
100.0	100.0	100.0	100.0	0.2	0.2	-179.37	-3,212.2	-35.2	3,212.4	3,212.1	0.33	9,842.629		
200.0	200.0	200.0	200.0	0.3	0.3	-179.37	-3,212.2	-35.2	3,212.4	3,211.7	0.68	4,756.000		
300.0	300.0	300.0	300.0	0.5	0.5	-179.37	-3,212.2	-35.2	3,212.4	3,211.4	1.02	3,135.557		
400.0	400.0	400.0	400.0	0.7	0.7	-179.37	-3,212.2	-35.2	3,212.4	3,211.0	1.37	2,338.720		
500.0	500.0	500.0	500.0	0.8	0.9	-179.37	-3,212.2	-35.2	3,212.4	3,210.7	1.72	1,864.815		
600.0	600.0	600.0	600.0	1.0	1.0	173.78	-3,212.2	-35.2	3,213.3	3,211.2	2.07	1,551.179		
700.0	700.0	700.0	700.0	1.2	1.2	173.78	-3,212.2	-35.2	3,215.9	3,213.5	2.42	1,328.943		
800.0	799.9	799.9	799.9	1.4	1.4	173.78	-3,212.2	-35.2	3,220.2	3,217.4	2.77	1,163.530		
900.0	899.7	899.7	899.7	1.6	1.6	173.79	-3,212.2	-35.2	3,226.3	3,223.2	3.11	1,035.851		
1,000.0	999.4	999.4	999.4	1.8	1.7	173.80	-3,212.2	-35.2	3,234.1	3,230.6	3.46	934.507		
1,100.0	1,098.9	1,098.9	1,098.9	2.0	1.9	173.80	-3,212.2	-35.2	3,243.6	3,239.8	3.81	852.271		
1,200.0	1,198.3	1,198.3	1,198.3	2.2	2.1	173.81	-3,212.2	-35.2	3,254.9	3,250.7	4.15	784.339		
1,300.0	1,297.4	1,297.4	1,297.4	2.5	2.3	173.82	-3,212.2	-35.2	3,267.8	3,263.3	4.49	727.395		
1,400.0	1,396.3	1,396.3	1,396.3	2.8	2.4	173.84	-3,212.2	-35.2	3,282.5	3,277.7	4.83	679.073		
1,500.0	1,494.9	1,494.9	1,494.9	3.1	2.6	173.85	-3,212.2	-35.2	3,299.0	3,293.8	5.17	637.643		
1,600.0	1,593.3	1,593.3	1,593.3	3.4	2.8	173.86	-3,212.2	-35.2	3,317.1	3,311.6	5.51	601.810		
1,700.0	1,691.2	1,691.2	1,691.2	3.8	3.0	173.88	-3,212.2	-35.2	3,336.9	3,331.1	5.85	570.582		
1,800.0	1,788.9	1,788.9	1,788.9	4.2	3.1	173.89	-3,212.2	-35.2	3,358.4	3,352.2	6.18	543.193		
1,900.0	1,886.3	1,886.3	1,886.3	4.6	3.3	173.93	-3,212.2	-35.2	3,380.8	3,374.3	6.53	517.783		
2,000.0	1,983.7	1,983.7	1,983.7	5.0	3.5	173.97	-3,212.2	-35.2	3,403.2	3,396.3	6.88	494.936		
2,100.0	2,081.2	2,081.2	2,081.2	5.4	3.6	174.01	-3,212.2	-35.2	3,425.6	3,418.3	7.22	474.282		
2,200.0	2,178.6	2,178.6	2,178.6	5.8	3.8	174.05	-3,212.2	-35.2	3,447.9	3,440.4	7.57	455.522		
2,300.0	2,276.1	2,276.1	2,276.1	6.2	4.0	174.09	-3,212.2	-35.2	3,470.3	3,462.4	7.92	438.407		
2,400.0	2,373.5	2,373.5	2,373.5	6.6	4.1	174.13	-3,212.2	-35.2	3,492.7	3,484.4	8.26	422.730		
2,500.0	2,470.9	2,470.9	2,470.9	7.0	4.3	174.17	-3,212.2	-35.2	3,515.1	3,506.5	8.61	408.317		
2,600.0	2,568.4	2,568.4	2,568.4	7.4	4.5	174.20	-3,212.2	-35.2	3,537.5	3,528.5	8.96	395.022		
2,700.0	2,665.8	2,665.8	2,665.8	7.8	4.7	174.24	-3,212.2	-35.2	3,559.9	3,550.6	9.30	382.720		
2,800.0	2,763.2	2,763.2	2,763.2	8.3	4.8	174.28	-3,212.2	-35.2	3,582.2	3,572.6	9.65	371.303		
2,900.0	2,860.7	2,860.7	2,860.7	8.7	5.0	174.31	-3,212.2	-35.2	3,604.6	3,594.6	9.99	360.680		
3,000.0	2,958.1	2,958.1	2,958.1	9.1	5.2	174.35	-3,212.2	-35.2	3,627.0	3,616.7	10.34	350.771		
3,100.0	3,055.6	3,055.6	3,055.6	9.5	5.3	174.38	-3,212.2	-35.2	3,649.4	3,638.7	10.69	341.506		
3,200.0	3,153.0	3,153.0	3,153.0	10.0	5.5	174.42	-3,212.2	-35.2	3,671.8	3,660.8	11.03	332.824		
3,300.0	3,250.4	3,250.4	3,250.4	10.4	5.7	174.45	-3,212.2	-35.2	3,694.2	3,682.8	11.38	324.672		
3,400.0	3,347.9	3,347.9	3,347.9	10.8	5.8	174.48	-3,212.2	-35.2	3,716.6	3,704.9	11.72	317.003		
3,500.0	3,445.3	3,445.3	3,445.3	11.2	6.0	174.52	-3,212.2	-35.2	3,739.0	3,726.9	12.07	309.775		
3,600.0	3,542.7	3,542.7	3,542.7	11.7	6.2	174.55	-3,212.2	-35.2	3,761.4	3,749.0	12.42	302.952		
3,700.0	3,640.2	3,640.2	3,640.2	12.1	6.4	174.58	-3,212.2	-35.2	3,783.8	3,771.0	12.76	296.500		
3,800.0	3,737.6	3,737.6	3,737.6	12.5	6.5	174.61	-3,212.2	-35.2	3,806.2	3,793.1	13.11	290.390		
3,815.0	3,752.2	3,752.2	3,752.2	12.6	6.5	174.62	-3,212.2	-35.2	3,809.6	3,796.4	13.16	289.501		
3,900.0	3,835.2	3,835.2	3,835.2	12.9	6.7	174.66	-3,212.2	-35.2	3,828.0	3,814.5	13.47	284.178		
4,000.0	3,933.1	3,933.1	3,933.1	13.3	6.9	174.71	-3,212.2	-35.2	3,848.1	3,834.3	13.83	278.143		
4,100.0	4,031.4	4,031.4	4,031.4	13.6	7.0	174.75	-3,212.2	-35.2	3,866.5	3,852.3	14.20	272.335		
4,200.0	4,130.0	4,130.0	4,130.0	14.0	7.2	174.79	-3,212.2	-35.2	3,883.2	3,868.6	14.56	266.737		
4,300.0	4,228.9	4,228.9	4,228.9	14.3	7.4	174.82	-3,212.2	-35.2	3,898.2	3,883.3	14.92	261.333		
4,400.0	4,328.0	4,328.0	4,328.0	14.6	7.6	174.85	-3,212.2	-35.2	3,911.4	3,896.2	15.27	256.109		
4,500.0	4,427.3	4,427.3	4,427.3	14.8	7.7	174.88	-3,212.2	-35.2	3,923.0	3,907.3	15.63	251.054		
4,600.0	4,526.8	4,526.8	4,526.8	15.0	7.9	174.90	-3,212.2	-35.2	3,932.8	3,916.8	15.98	246.154		
4,700.0	4,626.5	4,626.5	4,626.5	15.2	8.1	174.92	-3,212.2	-35.2	3,940.8	3,924.5	16.32	241.401		
4,800.0	4,726.3	4,726.3	4,726.3	15.4	8.2	174.93	-3,212.2	-35.2	3,947.2	3,930.5	16.67	236.784		
4,900.0	4,826.2	4,826.2	4,826.2	15.6	8.4	174.94	-3,212.2	-35.2	3,951.8	3,934.8	17.01	232.295		
5,000.0	4,926.1	4,926.1	4,926.1	15.7	8.6	174.95	-3,212.2	-35.2	3,954.7	3,937.3	17.35	227.925		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #11 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,026.1	5,026.1	15.8	8.8	174.95	-3,212.2	-35.2	3,955.8	3,938.1	17.69	223.667		
5,115.0	5,041.1	5,041.1	5,041.1	15.8	8.8	-178.20	-3,212.2	-35.2	3,955.8	3,938.1	17.74	223.038		
5,200.0	5,126.1	5,126.1	5,126.1	15.9	8.9	-178.20	-3,212.2	-35.2	3,955.8	3,937.8	18.03	219.375		
5,300.0	5,226.1	5,226.1	5,226.1	16.0	9.1	-178.20	-3,212.2	-35.2	3,955.8	3,937.4	18.38	215.216		
5,400.0	5,326.1	5,326.1	5,326.1	16.1	9.3	-178.20	-3,212.2	-35.2	3,955.8	3,937.1	18.73	211.212		
5,500.0	5,426.1	5,426.1	5,426.1	16.2	9.5	-178.20	-3,212.2	-35.2	3,955.8	3,936.7	19.08	207.353		
5,600.0	5,526.1	5,526.1	5,526.1	16.3	9.6	-178.20	-3,212.2	-35.2	3,955.8	3,936.4	19.43	203.633		
5,700.0	5,626.1	5,626.1	5,626.1	16.4	9.8	-178.20	-3,212.2	-35.2	3,955.8	3,936.0	19.77	200.044		
5,800.0	5,726.1	5,726.1	5,726.1	16.5	10.0	-178.20	-3,212.2	-35.2	3,955.8	3,935.7	20.12	196.579		
5,900.0	5,826.1	5,826.1	5,826.1	16.6	10.2	-178.20	-3,212.2	-35.2	3,955.8	3,935.3	20.47	193.232		
6,000.0	5,926.1	5,926.1	5,926.1	16.7	10.3	-178.20	-3,212.2	-35.2	3,955.8	3,935.0	20.82	189.997		
6,100.0	6,026.1	6,026.1	6,026.1	16.8	10.5	-178.20	-3,212.2	-35.2	3,955.8	3,934.6	21.17	186.868		
6,200.0	6,126.1	6,126.1	6,126.1	16.9	10.7	-178.20	-3,212.2	-35.2	3,955.8	3,934.3	21.52	183.840		
6,300.0	6,226.1	6,226.1	6,226.1	17.0	10.9	-178.20	-3,212.2	-35.2	3,955.8	3,933.9	21.87	180.909		
6,400.0	6,326.1	6,326.1	6,326.1	17.2	11.0	-178.20	-3,212.2	-35.2	3,955.8	3,933.6	22.21	178.070		
6,500.0	6,426.1	6,426.1	6,426.1	17.3	11.2	-178.20	-3,212.2	-35.2	3,955.8	3,933.2	22.56	175.318		
6,604.7	6,530.8	6,530.8	6,530.8	17.4	11.4	-178.20	-3,212.2	-35.2	3,955.8	3,932.9	22.93	172.527		
6,650.0	6,576.1	6,576.1	6,576.1	17.4	11.5	1.81	-3,212.2	-35.2	3,954.4	3,931.4	23.00	171.922		
6,700.0	6,625.8	6,625.8	6,625.8	17.4	11.6	1.82	-3,212.2	-35.2	3,949.5	3,926.5	23.01	171.646		
6,750.0	6,675.1	6,675.1	6,675.1	17.3	11.7	1.85	-3,212.2	-35.2	3,941.1	3,918.2	22.94	171.775		
6,800.0	6,723.7	6,723.7	6,723.7	17.2	11.7	1.89	-3,212.2	-35.2	3,929.4	3,906.6	22.80	172.308		
6,850.0	6,771.3	6,771.3	6,771.3	17.1	11.8	1.94	-3,212.2	-35.2	3,914.2	3,891.6	22.59	173.242		
6,900.0	6,817.8	6,817.8	6,817.8	16.9	11.9	2.00	-3,212.2	-35.2	3,895.8	3,873.5	22.32	174.576		
6,950.0	6,862.9	6,862.9	6,862.9	16.7	12.0	2.08	-3,212.2	-35.2	3,874.2	3,852.2	21.97	176.308		
7,000.0	6,906.3	6,906.3	6,906.3	16.4	12.1	2.18	-3,212.2	-35.2	3,849.5	3,827.9	21.57	178.435		
7,050.0	6,948.0	6,948.0	6,948.0	16.1	12.1	2.30	-3,212.2	-35.2	3,821.8	3,800.7	21.12	180.944		
7,100.0	6,987.6	6,987.6	6,987.6	15.9	12.2	2.44	-3,212.2	-35.2	3,791.3	3,770.7	20.63	183.817		
7,150.0	7,024.9	7,024.9	7,024.9	15.6	12.3	2.62	-3,212.2	-35.2	3,758.2	3,738.1	20.09	187.020		
7,200.0	7,059.9	7,059.9	7,059.9	15.3	12.3	2.85	-3,212.2	-35.2	3,722.4	3,702.9	19.54	190.499		
7,250.0	7,092.3	7,092.3	7,092.3	15.0	12.4	3.12	-3,212.2	-35.2	3,684.4	3,665.4	18.98	194.170		
7,300.0	7,121.9	7,121.9	7,121.9	14.7	12.4	3.47	-3,212.2	-35.2	3,644.2	3,625.7	18.41	197.912		
7,350.0	7,148.7	7,148.7	7,148.7	14.4	12.5	3.92	-3,212.2	-35.2	3,602.0	3,584.1	17.87	201.552		
7,400.0	7,172.4	7,172.4	7,172.4	14.2	12.5	4.51	-3,212.2	-35.2	3,558.0	3,540.6	17.37	204.855		
7,450.0	7,193.1	7,193.1	7,193.1	13.9	12.6	5.33	-3,212.2	-35.2	3,512.5	3,495.6	16.93	207.502		
7,500.0	7,210.5	7,210.5	7,210.5	13.8	12.6	6.51	-3,212.2	-35.2	3,465.7	3,449.1	16.58	209.052		
7,550.0	7,224.6	7,224.6	7,224.6	13.6	12.6	8.36	-3,212.2	-35.2	3,417.7	3,401.4	16.37	208.828		
7,600.0	7,235.3	7,235.3	7,235.3	13.5	12.6	11.61	-3,212.2	-35.2	3,368.9	3,352.5	16.40	205.430		
7,650.0	7,242.6	7,242.6	7,242.6	13.5	12.6	18.69	-3,212.2	-35.2	3,319.5	3,302.4	17.08	194.304		
7,700.0	7,246.4	7,246.4	7,246.4	13.5	12.6	42.62	-3,212.2	-35.2	3,269.7	3,248.6	21.09	155.064		
7,729.7	7,247.0	7,247.0	7,247.0	13.6	12.6	90.00	-3,212.2	-35.2	3,240.0	3,213.9	26.12	124.047		
7,800.0	7,247.0	7,247.0	7,247.0	13.7	12.6	90.00	-3,212.2	-35.2	3,169.8	3,143.5	26.30	120.544		
7,900.0	7,247.0	7,247.0	7,247.0	14.2	12.6	90.00	-3,212.2	-35.2	3,069.9	3,043.1	26.73	114.848		
8,000.0	7,247.0	7,247.0	7,247.0	14.8	12.6	90.00	-3,212.2	-35.2	2,970.0	2,942.6	27.36	108.545		
8,100.0	7,247.0	7,247.0	7,247.0	15.6	12.6	90.00	-3,212.2	-35.2	2,870.1	2,841.9	28.17	101.894		
8,200.0	7,247.0	7,247.0	7,247.0	16.5	12.6	90.00	-3,212.2	-35.2	2,770.1	2,741.0	29.12	95.128		
8,300.0	7,247.0	7,247.0	7,247.0	17.6	12.6	90.00	-3,212.2	-35.2	2,670.3	2,640.1	30.20	88.426		
8,400.0	7,247.0	7,247.0	7,247.0	18.8	12.6	90.00	-3,212.2	-35.2	2,570.4	2,539.0	31.38	81.918		
8,500.0	7,247.0	7,247.0	7,247.0	20.1	12.6	90.00	-3,212.2	-35.2	2,470.5	2,437.8	32.64	75.685		
8,600.0	7,247.0	7,247.0	7,247.0	21.4	12.6	90.00	-3,212.2	-35.2	2,370.6	2,336.6	33.98	69.775		
8,700.0	7,247.0	7,247.0	7,247.0	22.8	12.6	90.00	-3,212.2	-35.2	2,270.8	2,235.4	35.37	64.207		
8,800.0	7,247.0	7,247.0	7,247.0	24.2	12.6	90.00	-3,212.2	-35.2	2,170.9	2,134.1	36.80	58.985		
8,900.0	7,247.0	7,247.0	7,247.0	25.7	12.6	90.00	-3,212.2	-35.2	2,071.1	2,032.8	38.28	54.101		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #11 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
9,000.0	7,247.0	7,247.0	7,247.0	27.2	12.6	90.00	-3,212.2	-35.2	1,971.3	1,931.5	39.79	49.539			
9,100.0	7,247.0	7,247.0	7,247.0	28.7	12.6	90.00	-3,212.2	-35.2	1,871.5	1,830.2	41.33	45.281			
9,200.0	7,247.0	7,247.0	7,247.0	30.3	12.6	90.00	-3,212.2	-35.2	1,771.7	1,728.8	42.89	41.306			
9,300.0	7,247.0	7,247.0	7,247.0	31.9	12.6	90.00	-3,212.2	-35.2	1,672.0	1,627.5	44.47	37.594			
9,400.0	7,247.0	7,247.0	7,247.0	33.5	12.6	90.00	-3,212.2	-35.2	1,572.3	1,526.2	46.07	34.126			
9,500.0	7,247.0	7,247.0	7,247.0	35.1	12.6	90.00	-3,212.2	-35.2	1,472.6	1,424.9	47.69	30.881			
9,600.0	7,247.0	7,247.0	7,247.0	36.7	12.6	90.00	-3,212.2	-35.2	1,373.0	1,323.7	49.31	27.842			
9,700.0	7,247.0	7,247.0	7,247.0	38.3	12.6	90.00	-3,212.2	-35.2	1,273.5	1,222.5	50.95	24.993			
9,800.0	7,247.0	7,247.0	7,247.0	40.0	12.6	90.00	-3,212.2	-35.2	1,174.0	1,121.4	52.60	22.319			
9,900.0	7,247.0	7,247.0	7,247.0	41.6	12.6	90.00	-3,212.2	-35.2	1,074.6	1,020.3	54.26	19.806			
10,000.0	7,247.0	7,247.0	7,247.0	43.3	12.6	90.00	-3,212.2	-35.2	975.3	919.4	55.92	17.441			
10,100.0	7,247.0	7,247.0	7,247.0	45.0	12.6	90.00	-3,212.2	-35.2	876.3	818.7	57.59	15.215			
10,200.0	7,247.0	7,247.0	7,247.0	46.6	12.6	90.00	-3,212.2	-35.2	777.4	718.1	59.27	13.116			
10,300.0	7,247.0	7,247.0	7,247.0	48.3	12.6	90.00	-3,212.2	-35.2	678.9	617.9	60.95	11.138			
10,400.0	7,247.0	7,247.0	7,247.0	50.0	12.6	90.00	-3,212.2	-35.2	580.9	518.2	62.64	9.273			
10,500.0	7,247.0	7,247.0	7,247.0	51.7	12.6	90.00	-3,212.2	-35.2	483.7	419.3	64.33	7.519			
10,600.0	7,247.0	7,247.0	7,247.0	53.4	12.6	90.00	-3,212.2	-35.2	387.9	321.9	66.03	5.875			
10,700.0	7,247.0	7,247.0	7,247.0	55.1	12.6	90.00	-3,212.2	-35.2	295.0	227.2	67.73	4.355			
10,800.0	7,247.0	7,247.0	7,247.0	56.8	12.6	90.00	-3,212.2	-35.2	208.6	139.2	69.43	3.005			
10,900.0	7,247.0	7,247.0	7,247.0	58.5	12.6	90.00	-3,212.2	-35.2	141.6	70.5	71.13	1.991			
10,967.3	7,247.0	7,247.0	7,247.0	59.7	12.6	90.00	-3,212.2	-35.2	124.6	52.3	72.29	1.724 CC, ES, SF			
11,000.0	7,247.0	7,247.0	7,247.0	60.2	12.6	90.00	-3,212.2	-35.2	128.8	56.0	72.84	1.768			
11,100.0	7,247.0	7,247.0	7,247.0	61.9	12.6	90.00	-3,212.2	-35.2	182.0	107.5	74.55	2.441			
11,200.0	7,247.0	7,247.0	7,247.0	63.6	12.6	90.00	-3,212.2	-35.2	263.9	187.7	76.27	3.460			
11,300.0	7,247.0	7,247.0	7,247.0	65.4	12.6	90.00	-3,212.2	-35.2	355.2	277.2	77.98	4.555			
11,400.0	7,247.0	7,247.0	7,247.0	67.1	12.6	90.00	-3,212.2	-35.2	450.2	370.5	79.70	5.649			
11,500.0	7,247.0	7,247.0	7,247.0	68.8	12.6	90.00	-3,212.2	-35.2	547.0	465.6	81.42	6.719			
11,600.0	7,247.0	7,247.0	7,247.0	70.5	12.6	90.00	-3,212.2	-35.2	644.8	561.7	83.14	7.755			
11,700.0	7,247.0	7,247.0	7,247.0	72.2	12.6	90.00	-3,212.2	-35.2	743.2	658.3	84.87	8.757			
11,800.0	7,247.0	7,247.0	7,247.0	74.0	12.6	90.00	-3,212.2	-35.2	841.9	755.3	86.59	9.723			
11,816.8	7,247.0	7,247.0	7,247.0	74.2	12.6	90.00	-3,212.2	-35.2	858.6	771.7	86.88	9.882			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #2 (Exsiting) - Hz - Hz													Offset Site Error: 0.0 ft	
Survey Program: 100-Gyro													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	123.05	-229.8	353.3	421.6					
100.0	100.0	88.6	88.6	0.2	0.1	123.07	-230.0	353.2	421.5	421.3	0.23	1,838.880		
200.0	200.0	188.6	188.6	0.3	0.2	123.16	-230.6	353.0	421.6	421.1	0.49	857.966		
300.0	300.0	287.9	287.9	0.5	0.3	123.32	-231.7	352.5	421.8	421.0	0.75	559.939		
400.0	400.0	389.3	389.2	0.7	0.3	123.51	-232.9	351.8	421.9	420.9	1.02	414.867		
442.7	442.7	431.7	431.7	0.7	0.4	123.59	-233.4	351.5	421.9	420.8	1.13	373.734		
500.0	500.0	488.3	488.3	0.8	0.4	123.68	-234.0	351.1	422.0	420.7	1.28	330.009		
600.0	600.0	589.4	589.4	1.0	0.5	117.11	-235.1	350.5	422.4	420.9	1.54	273.873		
700.0	700.0	690.7	690.6	1.2	0.6	117.58	-236.0	349.6	423.4	421.6	1.81	234.154		
800.0	799.9	791.3	791.2	1.4	0.7	118.22	-236.5	348.6	424.9	422.9	2.08	204.559		
900.0	899.7	891.9	891.8	1.6	0.8	119.04	-236.8	347.6	427.2	424.9	2.35	181.556		
1,000.0	999.4	991.3	991.3	1.8	0.9	120.04	-237.1	346.5	430.4	427.8	2.64	163.225		
1,100.0	1,098.9	1,090.8	1,090.7	2.0	1.0	121.20	-237.4	345.5	434.6	431.7	2.93	148.313		
1,200.0	1,198.3	1,189.9	1,189.9	2.2	1.0	122.49	-237.5	344.6	440.0	436.8	3.24	136.000		
1,300.0	1,297.4	1,289.3	1,289.2	2.5	1.1	123.92	-237.5	343.8	446.6	443.0	3.55	125.721		
1,400.0	1,396.3	1,387.1	1,387.0	2.8	1.2	125.44	-237.7	343.0	454.5	450.7	3.88	117.167		
1,500.0	1,494.9	1,485.7	1,485.6	3.1	1.3	127.09	-237.8	342.3	464.0	459.8	4.22	110.013		
1,600.0	1,593.3	1,583.9	1,583.8	3.4	1.4	128.80	-238.0	341.7	475.0	470.5	4.57	104.035		
1,700.0	1,691.2	1,682.2	1,682.1	3.8	1.5	130.58	-238.2	341.0	487.6	482.6	4.92	99.066		
1,800.0	1,788.9	1,780.4	1,780.4	4.2	1.6	132.40	-238.2	340.3	501.7	496.4	5.28	94.954		
1,900.0	1,886.3	1,878.5	1,878.4	4.6	1.6	134.29	-238.1	339.6	516.8	511.1	5.64	91.680		
2,000.0	1,983.7	1,977.1	1,977.0	5.0	1.7	136.08	-237.9	338.7	532.2	526.3	5.98	88.962		
2,100.0	2,081.2	2,074.5	2,074.4	5.4	1.8	137.70	-237.3	338.2	548.0	541.7	6.32	86.685		
2,200.0	2,178.6	2,172.1	2,172.0	5.8	1.9	139.23	-236.8	337.6	564.3	557.7	6.65	84.807		
2,300.0	2,276.1	2,269.7	2,269.6	6.2	2.0	140.67	-236.2	337.2	580.9	574.0	6.98	83.237		
2,400.0	2,373.5	2,366.4	2,366.3	6.6	2.1	142.02	-235.6	336.7	598.0	590.7	7.30	81.940		
2,500.0	2,470.9	2,463.7	2,463.5	7.0	2.2	143.30	-235.2	336.4	615.4	607.8	7.61	80.875		
2,600.0	2,568.4	2,560.9	2,560.8	7.4	2.2	144.52	-234.7	336.0	633.2	625.3	7.92	79.992		
2,700.0	2,665.8	2,657.3	2,657.2	7.8	2.3	145.67	-234.5	335.5	651.3	643.1	8.22	79.279		
2,800.0	2,763.2	2,753.9	2,753.8	8.3	2.4	146.80	-234.6	334.7	669.9	661.4	8.51	78.736		
2,900.0	2,860.7	2,852.3	2,852.2	8.7	2.5	147.93	-234.9	333.5	688.8	680.0	8.79	78.312		
3,000.0	2,958.1	2,950.9	2,950.8	9.1	2.6	149.01	-235.0	332.1	707.6	698.5	9.08	77.965		
3,100.0	3,055.6	3,047.9	3,047.8	9.5	2.7	150.03	-235.1	330.5	726.6	717.3	9.35	77.697		
3,200.0	3,153.0	3,144.1	3,144.0	10.0	2.8	151.00	-235.4	329.0	746.0	736.3	9.62	77.512		
3,300.0	3,250.4	3,241.9	3,241.7	10.4	2.8	151.93	-235.7	327.4	765.6	755.7	9.89	77.395		
3,400.0	3,347.9	3,340.4	3,340.2	10.8	2.9	152.82	-235.9	325.9	785.2	775.1	10.16	77.299		
3,500.0	3,445.3	3,436.8	3,436.6	11.2	3.0	153.65	-236.0	324.4	805.1	794.7	10.42	77.252		
3,600.0	3,542.7	3,533.0	3,532.8	11.7	3.1	154.43	-236.3	322.9	825.2	814.5	10.68	77.249		
3,700.0	3,640.2	3,628.9	3,628.7	12.1	3.2	155.18	-236.7	321.5	845.6	834.7	10.94	77.290		
3,800.0	3,737.6	3,725.4	3,725.1	12.5	3.3	155.90	-237.3	320.0	866.3	855.1	11.20	77.368		
3,815.0	3,752.2	3,739.7	3,739.5	12.6	3.3	156.01	-237.4	319.7	869.4	858.2	11.24	77.383		
3,900.0	3,835.2	3,820.6	3,820.4	12.9	3.3	156.66	-238.1	318.2	886.7	875.2	11.44	77.506		
4,000.0	3,933.1	3,915.4	3,915.1	13.3	3.4	157.38	-239.3	316.0	905.9	894.3	11.67	77.599		
4,100.0	4,031.4	4,014.5	4,014.2	13.6	3.5	158.10	-240.9	313.1	923.9	912.0	11.90	77.609		
4,200.0	4,130.0	4,121.6	4,121.2	14.0	3.6	158.85	-242.3	308.7	939.7	927.5	12.13	77.474		
4,300.0	4,228.9	4,224.2	4,223.6	14.3	3.7	159.57	-243.1	303.1	953.3	940.9	12.35	77.213		
4,400.0	4,328.0	4,324.6	4,323.9	14.6	3.8	160.25	-243.9	297.3	965.2	952.7	12.56	76.852		
4,500.0	4,427.3	4,430.9	4,429.9	14.8	3.9	160.89	-244.0	291.0	975.0	962.2	12.78	76.319		
4,600.0	4,526.8	4,532.5	4,531.3	15.0	4.0	161.44	-243.8	285.0	982.9	969.9	12.99	75.661		
4,700.0	4,626.5	4,635.8	4,634.5	15.2	4.1	161.95	-243.2	278.9	988.8	975.6	13.21	74.875		
4,800.0	4,726.3	4,739.0	4,737.5	15.4	4.2	162.42	-242.1	272.8	992.8	979.4	13.42	73.963		
4,900.0	4,826.2	4,838.1	4,836.4	15.6	4.3	162.80	-240.9	267.3	994.9	981.3	13.64	72.952		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #2 (Exsiting) - Hz - Hz													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,926.1	4,932.4	4,930.7	15.7	4.4	163.09	-239.9	263.0	995.8	982.0	13.85	71.883		
5,100.0	5,026.1	5,025.1	5,023.3	15.8	4.5	163.30	-239.3	259.4	995.7	981.6	14.07	70.773		
5,115.0	5,041.1	5,038.7	5,036.8	15.8	4.5	170.18	-239.3	258.9	995.6	981.5	14.10	70.606		
5,187.6	5,113.7	5,104.5	5,102.6	15.9	4.5	170.30	-239.5	256.8	995.3	981.1	14.27	69.765		
5,200.0	5,126.1	5,116.6	5,114.7	15.9	4.5	170.32	-239.5	256.4	995.3	981.0	14.30	69.622		
5,300.0	5,226.1	5,214.3	5,212.4	16.0	4.6	170.49	-240.2	253.6	995.5	981.0	14.53	68.497		
5,400.0	5,326.1	5,313.7	5,311.7	16.1	4.7	170.64	-240.9	251.0	995.8	981.0	14.77	67.405		
5,500.0	5,426.1	5,413.8	5,411.8	16.2	4.8	170.79	-241.7	248.5	996.2	981.1	15.02	66.342		
5,600.0	5,526.1	5,514.8	5,512.7	16.3	4.9	170.94	-242.4	246.0	996.4	981.2	15.26	65.301		
5,700.0	5,626.1	5,614.5	5,612.4	16.4	5.0	171.09	-243.0	243.4	996.7	981.2	15.50	64.295		
5,800.0	5,726.1	5,717.1	5,715.0	16.5	5.1	171.24	-243.6	240.9	996.9	981.1	15.75	63.298		
5,900.0	5,826.1	5,822.2	5,820.1	16.6	5.2	171.40	-243.8	238.2	996.7	980.7	16.00	62.300		
6,000.0	5,926.1	5,931.8	5,929.7	16.7	5.3	171.55	-243.1	235.4	995.7	979.4	16.25	61.268		
6,100.0	6,026.1	6,039.6	6,037.4	16.8	5.4	171.68	-241.4	232.8	993.8	977.3	16.50	60.213		
6,200.0	6,126.1	6,139.8	6,137.6	16.9	5.5	171.79	-239.3	230.5	991.4	974.6	16.75	59.177		
6,300.0	6,226.1	6,235.3	6,233.0	17.0	5.6	171.90	-237.7	228.6	989.4	972.4	17.00	58.207		
6,400.0	6,326.1	6,333.1	6,330.8	17.2	5.6	171.98	-236.2	226.9	987.7	970.4	17.25	57.272		
6,500.0	6,426.1	6,429.1	6,426.8	17.3	5.7	172.02	-235.0	226.1	986.2	968.7	17.49	56.376		
6,604.7	6,530.8	6,528.2	6,525.8	17.4	5.8	172.06	-234.3	225.2	985.4	967.6	17.75	55.505		
6,650.0	6,576.1	6,573.6	6,571.3	17.4	5.8	-7.95	-234.0	224.8	983.7	965.9	17.81	55.248		
6,700.0	6,625.8	6,624.2	6,621.8	17.4	5.9	-8.02	-233.8	224.4	978.5	960.7	17.84	54.859		
6,750.0	6,675.1	6,675.0	6,672.6	17.3	5.9	-8.17	-233.4	224.0	969.8	952.0	17.84	54.354		
6,800.0	6,723.7	6,724.8	6,722.4	17.2	6.0	-8.39	-233.0	223.5	957.7	939.9	17.82	53.729		
6,850.0	6,771.3	6,773.4	6,771.0	17.1	6.0	-8.70	-232.6	223.0	942.2	924.4	17.78	52.983		
6,900.0	6,817.8	6,818.8	6,816.4	16.9	6.1	-9.09	-232.1	222.5	923.5	905.7	17.72	52.116		
6,950.0	6,862.9	6,860.5	6,858.2	16.7	6.1	-9.58	-231.8	222.0	901.7	884.0	17.63	51.132		
7,000.0	6,906.3	6,901.0	6,898.7	16.4	6.1	-10.19	-231.7	221.5	877.0	859.5	17.53	50.016		
7,050.0	6,948.0	6,946.2	6,943.8	16.1	6.2	-11.00	-231.5	221.0	849.4	832.0	17.43	48.723		
7,100.0	6,987.6	6,988.9	6,986.5	15.9	6.2	-12.03	-231.1	220.5	818.9	801.5	17.33	47.254		
7,150.0	7,024.9	7,024.5	7,022.1	15.6	6.2	-13.26	-230.8	220.0	785.7	768.4	17.22	45.623		
7,200.0	7,059.9	7,056.4	7,054.0	15.3	6.3	-14.79	-230.5	219.7	750.2	733.0	17.12	43.811		
7,250.0	7,092.3	7,086.1	7,083.7	15.0	6.3	-16.74	-230.4	219.4	712.5	695.5	17.05	41.789		
7,300.0	7,121.9	7,114.5	7,112.1	14.7	6.3	-19.27	-230.4	219.1	672.9	655.9	17.02	39.526		
7,350.0	7,148.7	7,141.0	7,138.6	14.4	6.3	-22.60	-230.4	218.9	631.5	614.4	17.07	36.993		
7,400.0	7,172.4	7,164.5	7,162.1	14.2	6.4	-27.00	-230.4	218.8	588.5	571.3	17.22	34.178		
7,450.0	7,193.1	7,184.9	7,182.5	13.9	6.4	-32.83	-230.4	218.7	544.2	526.7	17.50	31.091		
7,500.0	7,210.5	7,202.2	7,199.8	13.8	6.4	-40.51	-230.4	218.6	498.8	480.8	17.95	27.793		
7,550.0	7,224.6	7,216.2	7,213.8	13.6	6.4	-50.30	-230.4	218.6	452.6	434.1	18.52	24.441		
7,600.0	7,235.3	7,226.9	7,224.5	13.5	6.4	-61.89	-230.4	218.5	406.0	386.9	19.10	21.258		
7,650.0	7,242.6	7,234.2	7,231.8	13.5	6.4	-74.03	-230.4	218.5	359.5	340.0	19.53	18.410		
7,700.0	7,246.4	7,238.0	7,235.6	13.5	6.4	-84.88	-230.4	218.5	313.5	293.8	19.74	15.885		
7,729.7	7,247.0	7,238.7	7,236.3	13.6	6.4	-90.12	-230.4	218.5	286.7	266.9	19.79	14.489		
7,800.0	7,247.0	7,238.7	7,236.3	13.7	6.4	-90.15	-230.4	218.5	226.2	206.2	19.97	11.330		
7,900.0	7,247.0	7,238.8	7,236.4	14.2	6.4	-90.18	-230.4	218.5	155.1	134.7	20.40	7.602		
7,985.6	7,247.0	7,238.9	7,236.5	14.7	6.4	-90.21	-230.4	218.5	129.3	108.4	20.94	6.175 CC, ES, SF		
8,000.0	7,247.0	7,238.9	7,236.5	14.8	6.4	-90.22	-230.4	218.5	130.1	109.1	21.03	6.187		
8,100.0	7,247.0	7,239.0	7,236.6	15.6	6.4	-90.25	-230.4	218.5	172.7	150.8	21.84	7.907		
8,200.0	7,247.0	7,239.0	7,236.6	16.5	6.4	-90.29	-230.4	218.5	250.4	227.6	22.79	10.986		
8,300.0	7,247.0	7,239.1	7,236.7	17.6	6.4	-90.32	-230.4	218.5	340.0	316.1	23.87	14.244		
8,400.0	7,247.0	7,239.2	7,236.8	18.8	6.4	-90.36	-230.4	218.5	434.1	409.1	25.05	17.332		
8,500.0	7,247.0	7,239.3	7,236.9	20.1	6.4	-90.39	-230.4	218.5	530.4	504.1	26.31	20.159		
8,600.0	7,247.0	7,239.4	7,237.0	21.4	6.4	-90.43	-230.4	218.5	627.9	600.2	27.64	22.712		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #2 (Exsiting) - Hz - Hz												Offset Site Error: 0.0 ft	
Survey Program: 100-Gyro												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	7,247.0	7,239.4	7,237.0	22.8	6.4	-90.46	-230.4	218.5	726.0	697.0	29.04	25.004	
8,800.0	7,247.0	7,239.5	7,237.1	24.2	6.4	-90.50	-230.4	218.5	824.6	794.1	30.47	27.059	
8,900.0	7,247.0	7,239.6	7,237.2	25.7	6.4	-90.53	-230.4	218.5	923.5	891.5	31.95	28.903	
9,000.0	7,247.0	7,239.7	7,237.3	27.2	6.4	-90.57	-230.4	218.5	1,022.6	989.1	33.46	30.561	
9,100.0	7,247.0	7,239.8	7,237.4	28.7	6.4	-90.60	-230.4	218.5	1,121.9	1,086.9	35.00	32.054	
9,200.0	7,247.0	7,239.8	7,237.4	30.3	6.4	-90.64	-230.4	218.5	1,221.3	1,184.7	36.56	33.403	
9,300.0	7,247.0	7,239.9	7,237.5	31.9	6.4	-90.68	-230.4	218.5	1,320.7	1,282.6	38.14	34.626	
9,400.0	7,247.0	7,240.0	7,237.6	33.5	6.4	-90.71	-230.4	218.5	1,420.3	1,380.6	39.74	35.738	
9,500.0	7,247.0	7,240.1	7,237.7	35.1	6.4	-90.75	-230.4	218.5	1,519.9	1,478.6	41.36	36.753	
9,600.0	7,247.0	7,240.2	7,237.8	36.7	6.4	-90.78	-230.4	218.5	1,619.6	1,576.6	42.98	37.681	
9,700.0	7,247.0	7,240.2	7,237.9	38.3	6.4	-90.82	-230.4	218.5	1,719.3	1,674.6	44.62	38.532	
9,800.0	7,247.0	7,240.3	7,237.9	40.0	6.4	-90.86	-230.5	218.5	1,819.0	1,772.7	46.27	39.316	
9,900.0	7,247.0	7,240.4	7,238.0	41.6	6.4	-90.89	-230.5	218.5	1,918.8	1,870.8	47.92	40.039	
10,000.0	7,247.0	7,240.5	7,238.1	43.3	6.4	-90.93	-230.5	218.5	2,018.5	1,969.0	49.59	40.708	
10,100.0	7,247.0	7,240.6	7,238.2	45.0	6.4	-90.97	-230.5	218.5	2,118.3	2,067.1	51.26	41.328	
10,200.0	7,247.0	7,240.7	7,238.3	46.6	6.4	-91.00	-230.5	218.5	2,218.2	2,165.2	52.93	41.905	
10,300.0	7,247.0	7,240.7	7,238.3	48.3	6.4	-91.04	-230.5	218.5	2,318.0	2,263.4	54.61	42.443	
10,400.0	7,247.0	7,240.8	7,238.4	50.0	6.4	-91.08	-230.5	218.5	2,417.9	2,361.6	56.30	42.945	
10,500.0	7,247.0	7,240.9	7,238.5	51.7	6.4	-91.11	-230.5	218.5	2,517.7	2,459.7	57.99	43.414	
10,600.0	7,247.0	7,241.0	7,238.6	53.4	6.4	-91.15	-230.5	218.5	2,617.6	2,557.9	59.69	43.855	
10,700.0	7,247.0	7,241.1	7,238.7	55.1	6.4	-91.19	-230.5	218.5	2,717.5	2,656.1	61.39	44.268	
10,800.0	7,247.0	7,241.2	7,238.8	56.8	6.4	-91.23	-230.5	218.5	2,817.4	2,754.3	63.09	44.657	
10,900.0	7,247.0	7,241.2	7,238.8	58.5	6.4	-91.26	-230.5	218.5	2,917.3	2,852.5	64.79	45.024	
11,000.0	7,247.0	7,241.3	7,238.9	60.2	6.4	-91.30	-230.5	218.5	3,017.2	2,950.7	66.50	45.370	
11,100.0	7,247.0	7,241.4	7,239.0	61.9	6.4	-91.34	-230.5	218.5	3,117.1	3,048.9	68.21	45.698	
11,200.0	7,247.0	7,241.5	7,239.1	63.6	6.4	-91.37	-230.5	218.5	3,217.0	3,147.1	69.92	46.008	
11,300.0	7,247.0	7,241.6	7,239.2	65.4	6.4	-91.41	-230.5	218.5	3,316.9	3,245.3	71.64	46.302	
11,400.0	7,247.0	7,241.7	7,239.3	67.1	6.4	-91.45	-230.5	218.5	3,416.8	3,343.5	73.35	46.581	
11,500.0	7,247.0	7,241.8	7,239.4	68.8	6.4	-91.49	-230.5	218.5	3,516.8	3,441.7	75.07	46.846	
11,600.0	7,247.0	7,241.8	7,239.4	70.5	6.4	-91.53	-230.5	218.5	3,616.7	3,539.9	76.79	47.098	
11,700.0	7,247.0	7,241.9	7,239.5	72.2	6.4	-91.56	-230.5	218.5	3,716.6	3,638.1	78.51	47.339	
11,800.0	7,247.0	7,242.0	7,239.6	74.0	6.4	-91.60	-230.5	218.5	3,816.6	3,736.4	80.23	47.568	
11,816.8	7,247.0	7,242.0	7,239.6	74.2	6.4	-91.61	-230.5	218.5	3,833.4	3,752.9	80.52	47.606	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #31-10 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: O-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	-89.39	6.6	-623.3	623.5						
100.0	100.0	84.0	84.0	0.2	0.1	-89.39	6.6	-623.3	623.3	623.0	0.30	2,088.332			
200.0	200.0	184.0	184.0	0.3	0.3	-89.39	6.6	-623.3	623.3	622.7	0.65	962.650			
300.0	300.0	284.0	284.0	0.5	0.5	-89.39	6.6	-623.3	623.3	622.3	1.00	625.470			
400.0	400.0	384.0	384.0	0.7	0.7	-89.39	6.6	-623.3	623.3	622.0	1.35	463.221			
500.0	500.0	484.0	484.0	0.8	0.8	-89.39	6.6	-623.3	623.3	621.6	1.69	367.810 CC			
600.0	600.0	584.0	584.0	1.0	1.0	-96.32	6.6	-623.3	623.4	621.4	2.04	304.972			
700.0	700.0	684.0	684.0	1.2	1.2	-96.56	6.6	-623.3	623.7	621.3	2.40	260.297 ES			
800.0	799.9	783.9	783.9	1.4	1.4	-96.95	6.6	-623.3	624.2	621.5	2.75	226.701			
900.0	899.7	883.7	883.7	1.6	1.5	-97.50	6.6	-623.3	625.0	621.9	3.12	200.354			
1,000.0	999.4	983.4	983.4	1.8	1.7	-98.20	6.6	-623.3	626.1	622.6	3.50	179.028			
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	-99.05	6.6	-623.3	627.5	623.6	3.89	161.352			
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	-100.04	6.6	-623.3	629.4	625.1	4.30	146.442			
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	-101.17	6.6	-623.3	631.8	627.1	4.73	133.708			
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	-102.44	6.6	-623.3	634.9	629.7	5.17	122.740			
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	-103.83	6.6	-623.3	638.7	633.0	5.64	113.244			
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	-105.33	6.6	-623.3	643.3	637.2	6.13	105.000			
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	-106.94	6.6	-623.3	649.0	642.4	6.63	97.837			
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	-108.65	6.6	-623.3	655.8	648.6	7.16	91.621			
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	-110.45	6.6	-623.3	663.5	655.8	7.68	86.390			
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	-112.21	6.6	-623.3	671.8	663.6	8.20	81.938			
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	-113.92	6.6	-623.3	680.8	672.1	8.71	78.134			
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	-115.60	6.6	-623.3	690.5	681.2	9.22	74.871			
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	-117.22	6.6	-623.3	700.7	691.0	9.72	72.062			
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	-118.80	6.6	-623.3	711.5	701.2	10.22	69.634			
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	-120.33	6.6	-623.3	722.8	712.1	10.70	67.532			
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	-121.82	6.6	-623.3	734.6	723.4	11.18	65.706			
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	-123.26	6.6	-623.3	746.9	735.3	11.65	64.117			
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	-124.65	6.6	-623.3	759.7	747.6	12.11	62.732			
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	-126.00	6.6	-623.3	773.0	760.4	12.56	61.523			
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	-127.31	6.6	-623.3	786.6	773.6	13.01	60.468			
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	-128.57	6.6	-623.3	800.7	787.2	13.45	59.546			
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	-129.79	6.6	-623.3	815.1	801.2	13.88	58.741			
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	-130.96	6.6	-623.3	829.9	815.6	14.30	58.039			
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	-132.10	6.6	-623.3	845.0	830.3	14.72	57.426			
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	-133.19	6.6	-623.3	860.5	845.4	15.12	56.893			
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	-134.25	6.6	-623.3	876.2	860.7	15.53	56.430			
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	-135.27	6.6	-623.3	892.3	876.4	15.93	56.028			
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	-136.26	6.6	-623.3	908.6	892.3	16.32	55.682			
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	-136.41	6.6	-623.3	911.1	894.7	16.38	55.635			
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	-137.28	6.6	-623.3	924.7	908.0	16.70	55.387			
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	-138.21	6.6	-623.3	939.8	922.8	17.06	55.085			
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	-139.04	6.6	-623.3	953.8	936.4	17.42	54.763			
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	-139.77	6.6	-623.3	966.6	948.8	17.76	54.414			
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	-140.41	6.6	-623.3	978.2	960.1	18.10	54.033			
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	-140.96	6.6	-623.3	988.5	970.1	18.44	53.619			
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	-141.44	6.6	-623.3	997.6	978.8	18.76	53.169			
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	-141.84	6.6	-623.3	1,005.3	986.2	19.08	52.681			
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	-142.16	6.6	-623.3	1,011.7	992.3	19.40	52.155			
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	-142.41	6.6	-623.3	1,016.7	997.0	19.71	51.591			
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	-142.59	6.6	-623.3	1,020.4	1,000.4	20.01	50.988			
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	-142.70	6.6	-623.3	1,022.7	1,002.4	20.31	50.348			

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #31-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	-142.75	6.6	-623.3	1,023.6	1,003.0	20.61	49.671		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	-135.90	6.6	-623.3	1,023.6	1,003.0	20.65	49.563		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	-135.90	6.6	-623.3	1,023.6	1,002.7	20.91	48.947		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	-135.90	6.6	-623.3	1,023.6	1,002.4	21.22	48.239		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	-135.90	6.6	-623.3	1,023.6	1,002.1	21.53	47.550		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	-135.90	6.6	-623.3	1,023.6	1,001.8	21.84	46.877		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	-135.90	6.6	-623.3	1,023.6	1,001.5	22.15	46.221		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	-135.90	6.6	-623.3	1,023.6	1,001.2	22.46	45.581		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	-135.90	6.6	-623.3	1,023.6	1,000.9	22.77	44.957		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	-135.90	6.6	-623.3	1,023.6	1,000.5	23.08	44.348		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	-135.90	6.6	-623.3	1,023.6	1,000.2	23.40	43.754		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	-135.90	6.6	-623.3	1,023.6	999.9	23.71	43.174		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	-135.90	6.6	-623.3	1,023.6	999.6	24.02	42.607		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	-135.90	6.6	-623.3	1,023.6	999.3	24.34	42.054		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	-135.90	6.6	-623.3	1,023.6	999.0	24.66	41.514		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	-135.90	6.6	-623.3	1,023.6	998.6	24.97	40.986		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	-135.90	6.6	-623.3	1,023.6	998.3	25.31	40.446		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	44.22	6.6	-623.3	1,022.6	997.2	25.40	40.252		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	44.61	6.6	-623.3	1,019.1	993.6	25.49	39.986		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	45.28	6.6	-623.3	1,013.1	987.6	25.54	39.662		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	46.24	6.6	-623.3	1,004.8	979.2	25.58	39.277		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	47.49	6.6	-623.3	994.2	968.6	25.61	38.825		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	49.04	6.6	-623.3	981.4	955.8	25.63	38.299		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	50.91	6.6	-623.3	966.7	941.0	25.65	37.694		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	53.08	6.6	-623.3	950.1	924.5	25.67	37.007		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	55.56	6.6	-623.3	932.1	906.3	25.72	36.240		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	58.34	6.6	-623.3	912.7	886.9	25.78	35.402		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	61.37	6.6	-623.3	892.3	866.4	25.86	34.508		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	64.62	6.6	-623.3	871.3	845.3	25.94	33.582		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	68.01	6.6	-623.3	849.9	823.9	26.03	32.653		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	71.46	6.6	-623.3	828.6	802.5	26.10	31.750		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	74.87	6.6	-623.3	807.9	781.8	26.14	30.902		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	78.13	6.6	-623.3	788.1	762.0	26.16	30.130		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	81.15	6.6	-623.3	769.8	743.6	26.14	29.447		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	83.82	6.6	-623.3	753.3	727.2	26.10	28.858		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	86.08	6.6	-623.3	739.1	713.0	26.06	28.364		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	87.86	6.6	-623.3	727.6	701.6	26.02	27.961		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	89.12	6.6	-623.3	719.2	693.2	26.02	27.645		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	89.84	6.6	-623.3	714.1	688.0	26.05	27.413		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	90.00	6.6	-623.3	712.7	686.6	26.09	27.315		
7,748.5	7,247.0	7,231.0	7,231.0	13.6	12.6	90.00	6.6	-623.3	712.4	686.3	26.14	27.256		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	90.00	6.6	-623.3	714.3	688.0	26.27	27.193 SF		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	90.00	6.6	-623.3	728.4	701.7	26.70	27.278		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	90.00	6.6	-623.3	755.5	728.2	27.33	27.641		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	90.00	6.6	-623.3	794.4	766.3	28.14	28.233		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	90.00	6.6	-623.3	843.5	814.4	29.09	28.993		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	90.00	6.6	-623.3	901.0	870.8	30.17	29.863		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	90.00	6.6	-623.3	965.4	934.1	31.35	30.795		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	90.00	6.6	-623.3	1,035.5	1,002.9	32.61	31.751		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	90.00	6.6	-623.3	1,110.2	1,076.3	33.95	32.705		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	90.00	6.6	-623.3	1,188.7	1,153.3	35.34	33.637		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	90.00	6.6	-623.3	1,270.1	1,233.4	36.78	34.536		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		S10-T2N-R66W (lone) - lone #31-10 (Existing) - Existing - Existing											Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth	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)				
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	90.00	6.6	-623.3	1,354.1	1,315.8	38.25	35.397		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	90.00	6.6	-623.3	1,440.1	1,400.3	39.76	36.215		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	90.00	6.6	-623.3	1,527.8	1,486.5	41.30	36.990		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	90.00	6.6	-623.3	1,616.9	1,574.1	42.86	37.721		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	90.00	6.6	-623.3	1,707.3	1,662.8	44.45	38.411		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	90.00	6.6	-623.3	1,798.6	1,752.6	46.05	39.062		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	90.00	6.6	-623.3	1,890.9	1,843.2	47.66	39.674		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	90.00	6.6	-623.3	1,983.8	1,934.6	49.29	40.252		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	90.00	6.6	-623.3	2,077.5	2,026.6	50.92	40.796		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	90.00	6.6	-623.3	2,171.7	2,119.1	52.57	41.309		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	90.00	6.6	-623.3	2,266.4	2,212.2	54.23	41.793		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	90.00	6.6	-623.3	2,361.5	2,305.6	55.89	42.251		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	90.00	6.6	-623.3	2,457.1	2,399.5	57.56	42.684		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	90.00	6.6	-623.3	2,552.9	2,493.7	59.24	43.094		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	90.00	6.6	-623.3	2,649.1	2,588.2	60.92	43.483		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	90.00	6.6	-623.3	2,745.5	2,682.9	62.61	43.851		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	90.00	6.6	-623.3	2,842.2	2,777.9	64.30	44.201		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	90.00	6.6	-623.3	2,939.2	2,873.2	66.00	44.534		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	90.00	6.6	-623.3	3,036.3	2,968.6	67.70	44.850		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	90.00	6.6	-623.3	3,133.6	3,064.2	69.40	45.152		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	90.00	6.6	-623.3	3,231.0	3,159.9	71.11	45.439		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	90.00	6.6	-623.3	3,328.6	3,255.8	72.82	45.713		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	90.00	6.6	-623.3	3,426.4	3,351.9	74.53	45.975		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	90.00	6.6	-623.3	3,524.3	3,448.0	76.24	46.226		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	90.00	6.6	-623.3	3,622.3	3,544.3	77.96	46.465		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	90.00	6.6	-623.3	3,720.4	3,640.7	79.67	46.695		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	90.00	6.6	-623.3	3,818.6	3,737.2	81.39	46.915		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	90.00	6.6	-623.3	3,916.8	3,833.7	83.11	47.126		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	90.00	6.6	-623.3	4,015.2	3,930.4	84.84	47.328		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	90.00	6.6	-623.3	4,113.7	4,027.1	86.56	47.523		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	90.00	6.6	-623.3	4,130.3	4,043.4	86.85	47.555		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #32-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-151.04	-1,496.8	-828.2	1,710.7					
100.0	100.0	84.0	84.0	0.2	0.1	-151.04	-1,496.8	-828.2	1,710.7	1,710.4	0.30	5,731.163		
200.0	200.0	184.0	184.0	0.3	0.3	-151.04	-1,496.8	-828.2	1,710.7	1,710.0	0.65	2,641.871		
300.0	300.0	284.0	284.0	0.5	0.5	-151.04	-1,496.8	-828.2	1,710.7	1,709.7	1.00	1,716.523		
400.0	400.0	384.0	384.0	0.7	0.7	-151.04	-1,496.8	-828.2	1,710.7	1,709.3	1.35	1,271.251		
500.0	500.0	484.0	484.0	0.8	0.8	-151.04	-1,496.8	-828.2	1,710.7	1,709.0	1.69	1,009.407		
600.0	600.0	584.0	584.0	1.0	1.0	-157.90	-1,496.8	-828.2	1,711.5	1,709.4	2.04	837.449		
700.0	700.0	684.0	684.0	1.2	1.2	-157.92	-1,496.8	-828.2	1,713.9	1,711.5	2.39	716.353		
800.0	799.9	783.9	783.9	1.4	1.4	-157.96	-1,496.8	-828.2	1,717.9	1,715.2	2.74	626.626		
900.0	899.7	883.7	883.7	1.6	1.5	-158.02	-1,496.8	-828.2	1,723.6	1,720.5	3.09	557.599		
1,000.0	999.4	983.4	983.4	1.8	1.7	-158.09	-1,496.8	-828.2	1,730.9	1,727.4	3.44	502.948		
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	-158.17	-1,496.8	-828.2	1,739.8	1,736.0	3.79	458.687		
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	-158.27	-1,496.8	-828.2	1,750.3	1,746.2	4.15	422.183		
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	-158.38	-1,496.8	-828.2	1,762.4	1,757.9	4.50	391.624		
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	-158.51	-1,496.8	-828.2	1,776.2	1,771.4	4.86	365.726		
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	-158.64	-1,496.8	-828.2	1,791.6	1,786.4	5.21	343.551		
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	-158.79	-1,496.8	-828.2	1,808.6	1,803.0	5.58	324.400		
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	-158.95	-1,496.8	-828.2	1,827.3	1,821.3	5.94	307.740		
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	-159.12	-1,496.8	-828.2	1,847.5	1,841.2	6.30	293.160		
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	-159.36	-1,496.8	-828.2	1,868.6	1,862.0	6.68	279.879		
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	-159.60	-1,496.8	-828.2	1,889.8	1,882.7	7.05	268.006		
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	-159.84	-1,496.8	-828.2	1,910.9	1,903.5	7.43	257.340		
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	-160.06	-1,496.8	-828.2	1,932.1	1,924.3	7.80	247.711		
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	-160.29	-1,496.8	-828.2	1,953.4	1,945.2	8.17	238.981		
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	-160.51	-1,496.8	-828.2	1,974.6	1,966.1	8.55	231.033		
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	-160.72	-1,496.8	-828.2	1,995.9	1,987.0	8.92	223.769		
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	-160.93	-1,496.8	-828.2	2,017.2	2,007.9	9.29	217.107		
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	-161.14	-1,496.8	-828.2	2,038.5	2,028.9	9.66	210.977		
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	-161.34	-1,496.8	-828.2	2,059.9	2,049.8	10.03	205.318		
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	-161.54	-1,496.8	-828.2	2,081.3	2,070.9	10.40	200.080		
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	-161.73	-1,496.8	-828.2	2,102.7	2,091.9	10.77	195.217		
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	-161.92	-1,496.8	-828.2	2,124.1	2,113.0	11.14	190.692		
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	-162.11	-1,496.8	-828.2	2,145.5	2,134.0	11.51	186.471		
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	-162.29	-1,496.8	-828.2	2,167.0	2,155.1	11.87	182.525		
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	-162.47	-1,496.8	-828.2	2,188.5	2,176.3	12.24	178.828		
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	-162.64	-1,496.8	-828.2	2,210.0	2,197.4	12.60	175.358		
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	-162.82	-1,496.8	-828.2	2,231.5	2,218.6	12.97	172.095		
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	-162.99	-1,496.8	-828.2	2,253.1	2,239.8	13.33	169.020		
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	-163.15	-1,496.8	-828.2	2,274.6	2,261.0	13.69	166.118		
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	-163.18	-1,496.8	-828.2	2,277.9	2,264.1	13.75	165.697		
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	-163.36	-1,496.8	-828.2	2,295.6	2,281.6	14.07	163.214		
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	-163.56	-1,496.8	-828.2	2,315.0	2,300.6	14.44	160.373		
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	-163.74	-1,496.8	-828.2	2,332.8	2,318.0	14.80	157.607		
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	-163.90	-1,496.8	-828.2	2,348.9	2,333.7	15.16	154.906		
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	-164.04	-1,496.8	-828.2	2,363.4	2,347.9	15.52	152.263		
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	-164.16	-1,496.8	-828.2	2,376.2	2,360.3	15.88	149.672		
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	-164.27	-1,496.8	-828.2	2,387.3	2,371.1	16.23	147.128		
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	-164.36	-1,496.8	-828.2	2,396.8	2,380.2	16.57	144.624		
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	-164.43	-1,496.8	-828.2	2,404.6	2,387.7	16.92	142.159		
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	-164.49	-1,496.8	-828.2	2,410.8	2,393.5	17.25	139.726		
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	-164.53	-1,496.8	-828.2	2,415.2	2,397.6	17.59	137.324		
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	-164.56	-1,496.8	-828.2	2,418.0	2,400.1	17.92	134.950		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #32-10 (Existing) - Existing - Existing												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	-164.57	-1,496.8	-828.2	2,419.1	2,400.8	18.24	132.600	
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	-157.72	-1,496.8	-828.2	2,419.1	2,400.8	18.29	132.246	
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	-157.72	-1,496.8	-828.2	2,419.1	2,400.5	18.58	130.201	
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	-157.72	-1,496.8	-828.2	2,419.1	2,400.2	18.92	127.873	
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	-157.72	-1,496.8	-828.2	2,419.1	2,399.8	19.26	125.624	
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	-157.72	-1,496.8	-828.2	2,419.1	2,399.5	19.60	123.451	
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	-157.72	-1,496.8	-828.2	2,419.1	2,399.2	19.93	121.350	
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	-157.72	-1,496.8	-828.2	2,419.1	2,398.8	20.27	119.317	
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	-157.72	-1,496.8	-828.2	2,419.1	2,398.5	20.61	117.350	
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	-157.72	-1,496.8	-828.2	2,419.1	2,398.1	20.95	115.444	
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	-157.72	-1,496.8	-828.2	2,419.1	2,397.8	21.30	113.598	
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	-157.72	-1,496.8	-828.2	2,419.1	2,397.5	21.64	111.809	
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	-157.72	-1,496.8	-828.2	2,419.1	2,397.1	21.98	110.074	
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	-157.72	-1,496.8	-828.2	2,419.1	2,396.8	22.32	108.391	
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	-157.72	-1,496.8	-828.2	2,419.1	2,396.4	22.66	106.758	
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	-157.72	-1,496.8	-828.2	2,419.1	2,396.1	23.00	105.172	
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	-157.72	-1,496.8	-828.2	2,419.1	2,395.7	23.36	103.560	
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	22.34	-1,496.8	-828.2	2,417.8	2,394.3	23.44	103.148	
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	22.52	-1,496.8	-828.2	2,413.2	2,389.8	23.47	102.807	
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	22.84	-1,496.8	-828.2	2,405.5	2,382.1	23.45	102.578	
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	23.30	-1,496.8	-828.2	2,394.6	2,371.3	23.37	102.446	
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	23.91	-1,496.8	-828.2	2,380.7	2,357.4	23.25	102.391	
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	24.69	-1,496.8	-828.2	2,363.7	2,340.6	23.09	102.386	
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	25.65	-1,496.8	-828.2	2,343.8	2,320.9	22.89	102.393	
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	26.81	-1,496.8	-828.2	2,321.0	2,298.4	22.67	102.362	
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	28.21	-1,496.8	-828.2	2,295.6	2,273.2	22.46	102.227	
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	29.87	-1,496.8	-828.2	2,267.7	2,245.5	22.25	101.905	
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	31.85	-1,496.8	-828.2	2,237.4	2,215.3	22.09	101.297	
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	34.18	-1,496.8	-828.2	2,204.8	2,182.9	21.98	100.290	
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	36.92	-1,496.8	-828.2	2,170.3	2,148.3	21.97	98.771	
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	40.15	-1,496.8	-828.2	2,133.9	2,111.8	22.08	96.647	
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	43.92	-1,496.8	-828.2	2,095.8	2,073.5	22.33	93.876	
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	48.30	-1,496.8	-828.2	2,056.4	2,033.6	22.72	90.497	
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	53.33	-1,496.8	-828.2	2,015.7	1,992.5	23.26	86.654	
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	59.01	-1,496.8	-828.2	1,974.1	1,950.2	23.90	82.587	
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	65.30	-1,496.8	-828.2	1,931.8	1,907.2	24.58	78.589	
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	72.04	-1,496.8	-828.2	1,888.9	1,863.7	25.21	74.939	
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	79.03	-1,496.8	-828.2	1,845.9	1,820.2	25.70	71.831	
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	85.99	-1,496.8	-828.2	1,802.8	1,776.8	26.00	69.333	
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	90.00	-1,496.8	-828.2	1,777.3	1,751.2	26.09	68.117	
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	90.00	-1,496.8	-828.2	1,717.5	1,691.2	26.27	65.383	
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	90.00	-1,496.8	-828.2	1,633.8	1,607.1	26.70	61.187	
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	90.00	-1,496.8	-828.2	1,552.1	1,524.7	27.33	56.783	
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	90.00	-1,496.8	-828.2	1,472.6	1,444.5	28.14	52.333	
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	90.00	-1,496.8	-828.2	1,395.8	1,366.7	29.09	47.978	
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	90.00	-1,496.8	-828.2	1,322.1	1,291.9	30.17	43.821	
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	90.00	-1,496.8	-828.2	1,252.0	1,220.6	31.35	39.936	
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	90.00	-1,496.8	-828.2	1,186.2	1,153.6	32.61	36.371	
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	90.00	-1,496.8	-828.2	1,125.5	1,091.5	33.95	33.154	
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	90.00	-1,496.8	-828.2	1,070.7	1,035.3	35.34	30.298	
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	90.00	-1,496.8	-828.2	1,022.7	985.9	36.78	27.809	
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	90.00	-1,496.8	-828.2	982.6	944.4	38.25	25.687	

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #32-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	90.00	-1,496.8	-828.2	951.4	911.7	39.76	23.926		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	90.00	-1,496.8	-828.2	930.0	888.7	41.30	22.516		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	90.00	-1,496.8	-828.2	919.0	876.1	42.86	21.438		
9,251.9	7,247.0	7,231.0	7,231.0	31.1	12.6	90.00	-1,496.8	-828.2	917.5	873.8	43.69	21.002 CC, ES		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	90.00	-1,496.8	-828.2	918.7	874.3	44.45	20.671		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	90.00	-1,496.8	-828.2	929.4	883.3	46.05	20.184		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	90.00	-1,496.8	-828.2	950.4	902.8	47.66	19.942		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	90.00	-1,496.8	-828.2	981.3	932.0	49.29	19.911 SF		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	90.00	-1,496.8	-828.2	1,021.1	970.2	50.92	20.051		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	90.00	-1,496.8	-828.2	1,068.8	1,016.2	52.57	20.329		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	90.00	-1,496.8	-828.2	1,123.3	1,069.1	54.23	20.715		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	90.00	-1,496.8	-828.2	1,183.8	1,128.0	55.89	21.181		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	90.00	-1,496.8	-828.2	1,249.4	1,191.9	57.56	21.705		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	90.00	-1,496.8	-828.2	1,319.4	1,260.1	59.24	22.271		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	90.00	-1,496.8	-828.2	1,393.0	1,332.0	60.92	22.864		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	90.00	-1,496.8	-828.2	1,469.7	1,407.1	62.61	23.473		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	90.00	-1,496.8	-828.2	1,549.1	1,484.8	64.30	24.090		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	90.00	-1,496.8	-828.2	1,630.7	1,564.7	66.00	24.708		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	90.00	-1,496.8	-828.2	1,714.3	1,646.6	67.70	25.323		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	90.00	-1,496.8	-828.2	1,799.6	1,730.2	69.40	25.930		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	90.00	-1,496.8	-828.2	1,886.3	1,815.2	71.11	26.528		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	90.00	-1,496.8	-828.2	1,974.3	1,901.5	72.82	27.113		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	90.00	-1,496.8	-828.2	2,063.3	1,988.8	74.53	27.686		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	90.00	-1,496.8	-828.2	2,153.4	2,077.1	76.24	28.244		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	90.00	-1,496.8	-828.2	2,244.2	2,166.3	77.96	28.789		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	90.00	-1,496.8	-828.2	2,335.9	2,256.2	79.67	29.318		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	90.00	-1,496.8	-828.2	2,428.1	2,346.8	81.39	29.832		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	90.00	-1,496.8	-828.2	2,521.0	2,437.9	83.11	30.332		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	90.00	-1,496.8	-828.2	2,614.4	2,529.6	84.84	30.817		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	90.00	-1,496.8	-828.2	2,708.3	2,621.7	86.56	31.287		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	90.00	-1,496.8	-828.2	2,724.1	2,637.3	86.85	31.365		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #33-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 8215-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	-160.27	-2,382.0	-854.3	2,530.6					
100.0	100.0	84.0	84.0	0.2	0.1	-160.27	-2,382.0	-854.3	2,530.5	2,530.2	0.30	8,473.305		
200.0	200.0	184.0	184.0	0.3	0.3	-160.27	-2,382.0	-854.3	2,530.5	2,529.9	0.65	3,906.898		
300.0	300.0	284.0	284.0	0.5	0.5	-160.27	-2,382.0	-854.3	2,530.5	2,529.6	1.00	2,538.732		
400.0	400.0	384.0	384.0	0.7	0.7	-160.27	-2,382.0	-854.3	2,530.5	2,529.2	1.35	1,880.274		
500.0	500.0	484.0	484.0	0.8	0.8	-160.27	-2,382.0	-854.3	2,530.5	2,528.9	1.69	1,493.034		
600.0	600.0	584.0	584.0	1.0	1.0	-167.12	-2,382.0	-854.3	2,531.4	2,529.4	2.04	1,238.580		
700.0	700.0	684.0	684.0	1.2	1.2	-167.13	-2,382.0	-854.3	2,534.0	2,531.6	2.39	1,059.207		
800.0	799.9	783.9	783.9	1.4	1.4	-167.14	-2,382.0	-854.3	2,538.2	2,535.5	2.74	926.202		
900.0	899.7	883.7	883.7	1.6	1.5	-167.16	-2,382.0	-854.3	2,544.2	2,541.1	3.09	823.832		
1,000.0	999.4	983.4	983.4	1.8	1.7	-167.18	-2,382.0	-854.3	2,551.8	2,548.4	3.44	742.757		
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	-167.21	-2,382.0	-854.3	2,561.2	2,557.4	3.78	677.087		
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	-167.24	-2,382.0	-854.3	2,572.2	2,568.1	4.13	622.917		
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	-167.28	-2,382.0	-854.3	2,584.9	2,580.5	4.48	577.564		
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	-167.32	-2,382.0	-854.3	2,599.4	2,594.5	4.82	539.116		
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	-167.36	-2,382.0	-854.3	2,615.5	2,610.3	5.17	506.181		
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	-167.41	-2,382.0	-854.3	2,633.3	2,627.8	5.51	477.716		
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	-167.46	-2,382.0	-854.3	2,652.7	2,646.9	5.86	452.927		
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	-167.51	-2,382.0	-854.3	2,673.9	2,667.7	6.20	431.199		
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	-167.62	-2,382.0	-854.3	2,695.9	2,689.3	6.56	411.161		
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	-167.72	-2,382.0	-854.3	2,717.9	2,711.0	6.91	393.175		
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	-167.82	-2,382.0	-854.3	2,739.9	2,732.6	7.27	376.948		
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	-167.91	-2,382.0	-854.3	2,761.9	2,754.3	7.62	362.238		
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	-168.01	-2,382.0	-854.3	2,783.9	2,776.0	7.98	348.843		
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	-168.11	-2,382.0	-854.3	2,806.0	2,797.6	8.34	336.597		
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	-168.20	-2,382.0	-854.3	2,828.0	2,819.3	8.69	325.360		
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	-168.29	-2,382.0	-854.3	2,850.1	2,841.0	9.05	315.014		
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	-168.38	-2,382.0	-854.3	2,872.1	2,862.7	9.40	305.457		
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	-168.47	-2,382.0	-854.3	2,894.2	2,884.4	9.76	296.603		
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	-168.56	-2,382.0	-854.3	2,916.2	2,906.1	10.11	288.377		
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	-168.65	-2,382.0	-854.3	2,938.3	2,927.9	10.47	280.717		
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	-168.73	-2,382.0	-854.3	2,960.4	2,949.6	10.82	273.565		
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	-168.82	-2,382.0	-854.3	2,982.5	2,971.3	11.18	266.873		
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	-168.90	-2,382.0	-854.3	3,004.6	2,993.0	11.53	260.599		
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	-168.98	-2,382.0	-854.3	3,026.7	3,014.8	11.88	254.704		
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	-169.06	-2,382.0	-854.3	3,048.8	3,036.5	12.24	249.155		
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	-169.14	-2,382.0	-854.3	3,070.9	3,058.3	12.59	243.923		
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	-169.22	-2,382.0	-854.3	3,093.0	3,080.1	12.94	238.982		
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	-169.30	-2,382.0	-854.3	3,115.1	3,101.8	13.30	234.307		
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	-169.31	-2,382.0	-854.3	3,118.4	3,105.1	13.35	233.628		
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	-169.41	-2,382.0	-854.3	3,136.6	3,123.0	13.66	229.585		
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	-169.51	-2,382.0	-854.3	3,156.5	3,142.5	14.03	224.992		
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	-169.61	-2,382.0	-854.3	3,174.7	3,160.3	14.39	220.558		
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	-169.69	-2,382.0	-854.3	3,191.2	3,176.4	14.76	216.270		
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	-169.77	-2,382.0	-854.3	3,206.0	3,190.9	15.11	212.116		
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	-169.83	-2,382.0	-854.3	3,219.1	3,203.6	15.47	208.085		
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	-169.89	-2,382.0	-854.3	3,230.5	3,214.7	15.82	204.167		
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	-169.94	-2,382.0	-854.3	3,240.2	3,224.0	16.17	200.355		
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	-169.97	-2,382.0	-854.3	3,248.2	3,231.7	16.52	196.639		
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	-170.00	-2,382.0	-854.3	3,254.5	3,237.6	16.86	193.013		
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	-170.03	-2,382.0	-854.3	3,259.0	3,241.8	17.20	189.471		
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	-170.04	-2,382.0	-854.3	3,261.8	3,244.3	17.54	186.007		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #33-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 8215-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	-170.05	-2,382.0	-854.3	3,263.0	3,245.1	17.87	182.616		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	-163.20	-2,382.0	-854.3	3,263.0	3,245.1	17.92	182.109		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	-163.20	-2,382.0	-854.3	3,263.0	3,244.8	18.21	179.181		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	-163.20	-2,382.0	-854.3	3,263.0	3,244.4	18.56	175.853		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	-163.20	-2,382.0	-854.3	3,263.0	3,244.1	18.90	172.644		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	-163.20	-2,382.0	-854.3	3,263.0	3,243.7	19.24	169.550		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	-163.20	-2,382.0	-854.3	3,263.0	3,243.4	19.59	166.563		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	-163.20	-2,382.0	-854.3	3,263.0	3,243.0	19.94	163.678		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	-163.20	-2,382.0	-854.3	3,263.0	3,242.7	20.28	160.891		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	-163.20	-2,382.0	-854.3	3,263.0	3,242.4	20.63	158.196		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	-163.20	-2,382.0	-854.3	3,263.0	3,242.0	20.97	155.589		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	-163.20	-2,382.0	-854.3	3,263.0	3,241.7	21.32	153.065		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	-163.20	-2,382.0	-854.3	3,263.0	3,241.3	21.66	150.622		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	-163.20	-2,382.0	-854.3	3,263.0	3,241.0	22.01	148.255		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	-163.20	-2,382.0	-854.3	3,263.0	3,240.6	22.36	145.960		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	-163.20	-2,382.0	-854.3	3,263.0	3,240.3	22.70	143.735		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	-163.20	-2,382.0	-854.3	3,263.0	3,239.9	23.06	141.476		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	16.85	-2,382.0	-854.3	3,261.6	3,238.5	23.14	140.945		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	16.98	-2,382.0	-854.3	3,256.9	3,233.8	23.16	140.600		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	17.22	-2,382.0	-854.3	3,248.9	3,225.8	23.12	140.500		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	17.56	-2,382.0	-854.3	3,237.7	3,214.6	23.02	140.631		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	18.01	-2,382.0	-854.3	3,223.2	3,200.3	22.86	140.975		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	18.58	-2,382.0	-854.3	3,205.6	3,182.9	22.65	141.505		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	19.30	-2,382.0	-854.3	3,184.9	3,162.5	22.40	142.187		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	20.17	-2,382.0	-854.3	3,161.3	3,139.2	22.11	142.966		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	21.22	-2,382.0	-854.3	3,134.9	3,113.1	21.80	143.772		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	22.49	-2,382.0	-854.3	3,105.8	3,084.3	21.49	144.502		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	24.01	-2,382.0	-854.3	3,074.2	3,053.0	21.20	145.020		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	25.85	-2,382.0	-854.3	3,040.2	3,019.3	20.95	145.146		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	28.05	-2,382.0	-854.3	3,004.0	2,983.3	20.77	144.655		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	30.73	-2,382.0	-854.3	2,965.9	2,945.2	20.70	143.286		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	33.97	-2,382.0	-854.3	2,925.9	2,905.1	20.78	140.776		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	37.93	-2,382.0	-854.3	2,884.3	2,863.2	21.07	136.916		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	42.76	-2,382.0	-854.3	2,841.3	2,819.7	21.58	131.651		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	48.66	-2,382.0	-854.3	2,797.1	2,774.8	22.34	125.182		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	55.78	-2,382.0	-854.3	2,752.0	2,728.7	23.32	118.032		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	64.17	-2,382.0	-854.3	2,706.2	2,681.8	24.38	111.009		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	73.69	-2,382.0	-854.3	2,659.9	2,634.6	25.33	105.011		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	83.89	-2,382.0	-854.3	2,613.4	2,587.4	25.95	100.727		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	90.00	-2,382.0	-854.3	2,585.7	2,559.6	26.09	99.100		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	90.00	-2,382.0	-854.3	2,520.4	2,494.1	26.27	95.949		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	90.00	-2,382.0	-854.3	2,427.9	2,401.2	26.70	90.927		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	90.00	-2,382.0	-854.3	2,336.1	2,308.8	27.33	85.466		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	90.00	-2,382.0	-854.3	2,245.0	2,216.9	28.14	79.782		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	90.00	-2,382.0	-854.3	2,154.7	2,125.6	29.09	74.063		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	90.00	-2,382.0	-854.3	2,065.2	2,035.1	30.17	68.454		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	90.00	-2,382.0	-854.3	1,976.8	1,945.5	31.35	63.057		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	90.00	-2,382.0	-854.3	1,889.5	1,856.9	32.61	57.937		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	90.00	-2,382.0	-854.3	1,803.6	1,769.6	33.95	53.129		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	90.00	-2,382.0	-854.3	1,719.2	1,683.8	35.34	48.648		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	90.00	-2,382.0	-854.3	1,636.5	1,599.7	36.78	44.498		
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	90.00	-2,382.0	-854.3	1,555.9	1,517.6	38.25	40.671		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #33-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 8215-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		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	90.00	-2,382.0	-854.3	1,477.6	1,437.8	39.76	37.158		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	90.00	-2,382.0	-854.3	1,402.1	1,360.8	41.30	33.946		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	90.00	-2,382.0	-854.3	1,329.8	1,287.0	42.86	31.024		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	90.00	-2,382.0	-854.3	1,261.4	1,216.9	44.45	28.379		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	90.00	-2,382.0	-854.3	1,197.3	1,151.3	46.05	26.003		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	90.00	-2,382.0	-854.3	1,138.5	1,090.9	47.66	23.888		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	90.00	-2,382.0	-854.3	1,085.7	1,036.4	49.29	22.029		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	90.00	-2,382.0	-854.3	1,039.9	989.0	50.92	20.420		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	90.00	-2,382.0	-854.3	1,002.0	949.4	52.57	19.059		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	90.00	-2,382.0	-854.3	972.9	918.7	54.23	17.941		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	90.00	-2,382.0	-854.3	953.5	897.6	55.89	17.059		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	90.00	-2,382.0	-854.3	944.3	886.7	57.56	16.405		
10,137.1	7,247.0	7,231.0	7,231.0	45.6	12.6	90.00	-2,382.0	-854.3	943.6	885.4	58.19	16.217	CC, ES	
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	90.00	-2,382.0	-854.3	945.7	886.4	59.24	15.963		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	90.00	-2,382.0	-854.3	957.5	896.6	60.92	15.717		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	90.00	-2,382.0	-854.3	979.5	916.9	62.61	15.645	SF	
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	90.00	-2,382.0	-854.3	1,011.0	946.7	64.30	15.722		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	90.00	-2,382.0	-854.3	1,051.0	985.0	66.00	15.925		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	90.00	-2,382.0	-854.3	1,098.7	1,031.0	67.70	16.230		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	90.00	-2,382.0	-854.3	1,153.2	1,083.8	69.40	16.616		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	90.00	-2,382.0	-854.3	1,213.4	1,142.3	71.11	17.065		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	90.00	-2,382.0	-854.3	1,278.7	1,205.9	72.82	17.560		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	90.00	-2,382.0	-854.3	1,348.2	1,273.6	74.53	18.090		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	90.00	-2,382.0	-854.3	1,421.3	1,345.1	76.24	18.643		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	90.00	-2,382.0	-854.3	1,497.6	1,419.6	77.96	19.211		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	90.00	-2,382.0	-854.3	1,576.5	1,496.8	79.67	19.787		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	90.00	-2,382.0	-854.3	1,657.7	1,576.3	81.39	20.366		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	90.00	-2,382.0	-854.3	1,740.8	1,657.7	83.11	20.945		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	90.00	-2,382.0	-854.3	1,825.7	1,740.8	84.84	21.520		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	90.00	-2,382.0	-854.3	1,912.0	1,825.4	86.56	22.088		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	90.00	-2,382.0	-854.3	1,926.7	1,839.8	86.85	22.183		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #34-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
0.0	0.0	0.0	0.0	0.0	0.0	-168.18	-4,053.3	-848.4	4,141.2							
100.0	100.0	78.0	78.0	0.2	0.1	-168.18	-4,053.3	-848.4	4,141.2	4,140.9	0.29	N/A				
200.0	200.0	178.0	178.0	0.3	0.3	-168.18	-4,053.3	-848.4	4,141.2	4,140.5	0.64	6,500.586				
300.0	300.0	278.0	278.0	0.5	0.5	-168.18	-4,053.3	-848.4	4,141.2	4,140.2	0.99	4,199.494				
400.0	400.0	378.0	378.0	0.7	0.7	-168.18	-4,053.3	-848.4	4,141.2	4,139.8	1.34	3,101.587				
500.0	500.0	478.0	478.0	0.8	0.8	-168.18	-4,053.3	-848.4	4,141.2	4,139.5	1.68	2,458.771				
600.0	600.0	578.0	578.0	1.0	1.0	-175.03	-4,053.3	-848.4	4,142.0	4,140.0	2.03	2,037.294				
700.0	700.0	678.0	678.0	1.2	1.2	-175.03	-4,053.3	-848.4	4,144.6	4,142.3	2.38	1,740.369				
800.0	799.9	777.9	777.9	1.4	1.4	-175.03	-4,053.3	-848.4	4,149.0	4,146.3	2.73	1,520.222				
900.0	899.7	877.7	877.7	1.6	1.5	-175.03	-4,053.3	-848.4	4,155.1	4,152.0	3.08	1,350.742				
1,000.0	999.4	977.4	977.4	1.8	1.7	-175.03	-4,053.3	-848.4	4,162.9	4,159.5	3.42	1,216.453				
1,100.0	1,098.9	1,076.9	1,076.9	2.0	1.9	-175.04	-4,053.3	-848.4	4,172.4	4,168.7	3.77	1,107.601				
1,200.0	1,198.3	1,176.3	1,176.3	2.2	2.1	-175.04	-4,053.3	-848.4	4,183.7	4,179.6	4.11	1,017.732				
1,300.0	1,297.4	1,275.4	1,275.4	2.5	2.2	-175.05	-4,053.3	-848.4	4,196.7	4,192.3	4.45	942.407				
1,400.0	1,396.3	1,374.3	1,374.3	2.8	2.4	-175.05	-4,053.3	-848.4	4,211.4	4,206.7	4.79	878.470				
1,500.0	1,494.9	1,472.9	1,472.9	3.1	2.6	-175.06	-4,053.3	-848.4	4,227.9	4,222.8	5.13	823.618				
1,600.0	1,593.3	1,571.3	1,571.3	3.4	2.7	-175.06	-4,053.3	-848.4	4,246.0	4,240.6	5.47	776.130				
1,700.0	1,691.2	1,669.2	1,669.2	3.8	2.9	-175.07	-4,053.3	-848.4	4,265.9	4,260.1	5.81	734.696				
1,800.0	1,788.9	1,766.9	1,766.9	4.2	3.1	-175.07	-4,053.3	-848.4	4,287.5	4,281.3	6.14	698.298				
1,900.0	1,886.3	1,864.3	1,864.3	4.6	3.3	-175.10	-4,053.3	-848.4	4,309.9	4,303.4	6.49	664.543				
2,000.0	1,983.7	1,961.7	1,961.7	5.0	3.4	-175.12	-4,053.3	-848.4	4,332.3	4,325.5	6.83	634.205				
2,100.0	2,081.2	2,059.2	2,059.2	5.4	3.6	-175.15	-4,053.3	-848.4	4,354.7	4,347.6	7.18	606.790				
2,200.0	2,178.6	2,156.6	2,156.6	5.8	3.8	-175.17	-4,053.3	-848.4	4,377.2	4,369.6	7.52	581.897				
2,300.0	2,276.1	2,254.1	2,254.1	6.2	3.9	-175.20	-4,053.3	-848.4	4,399.6	4,391.7	7.87	559.192				
2,400.0	2,373.5	2,351.5	2,351.5	6.6	4.1	-175.22	-4,053.3	-848.4	4,422.0	4,413.8	8.21	538.400				
2,500.0	2,470.9	2,448.9	2,448.9	7.0	4.3	-175.25	-4,053.3	-848.4	4,444.4	4,435.9	8.56	519.289				
2,600.0	2,568.4	2,546.4	2,546.4	7.4	4.4	-175.27	-4,053.3	-848.4	4,466.8	4,457.9	8.90	501.663				
2,700.0	2,665.8	2,643.8	2,643.8	7.8	4.6	-175.29	-4,053.3	-848.4	4,489.3	4,480.0	9.25	485.355				
2,800.0	2,763.2	2,741.2	2,741.2	8.3	4.8	-175.32	-4,053.3	-848.4	4,511.7	4,502.1	9.59	470.224				
2,900.0	2,860.7	2,838.7	2,838.7	8.7	5.0	-175.34	-4,053.3	-848.4	4,534.1	4,524.2	9.94	456.145				
3,000.0	2,958.1	2,936.1	2,936.1	9.1	5.1	-175.36	-4,053.3	-848.4	4,556.5	4,546.2	10.29	443.014				
3,100.0	3,055.6	3,033.6	3,033.6	9.5	5.3	-175.39	-4,053.3	-848.4	4,579.0	4,568.3	10.63	430.737				
3,200.0	3,153.0	3,131.0	3,131.0	10.0	5.5	-175.41	-4,053.3	-848.4	4,601.4	4,590.4	10.98	419.234				
3,300.0	3,250.4	3,228.4	3,228.4	10.4	5.6	-175.43	-4,053.3	-848.4	4,623.8	4,612.5	11.32	408.434				
3,400.0	3,347.9	3,325.9	3,325.9	10.8	5.8	-175.45	-4,053.3	-848.4	4,646.2	4,634.6	11.67	398.275				
3,500.0	3,445.3	3,423.3	3,423.3	11.2	6.0	-175.48	-4,053.3	-848.4	4,668.7	4,656.7	12.01	388.700				
3,600.0	3,542.7	3,520.7	3,520.7	11.7	6.1	-175.50	-4,053.3	-848.4	4,691.1	4,678.7	12.36	379.662				
3,700.0	3,640.2	3,618.2	3,618.2	12.1	6.3	-175.52	-4,053.3	-848.4	4,713.5	4,700.8	12.70	371.116				
3,800.0	3,737.6	3,715.6	3,715.6	12.5	6.5	-175.54	-4,053.3	-848.4	4,736.0	4,722.9	13.05	363.023				
3,815.0	3,752.2	3,730.2	3,730.2	12.6	6.5	-175.54	-4,053.3	-848.4	4,739.3	4,726.2	13.10	361.846				
3,900.0	3,835.2	3,813.2	3,813.2	12.9	6.7	-175.57	-4,053.3	-848.4	4,757.8	4,744.4	13.41	354.830				
4,000.0	3,933.1	3,911.1	3,911.1	13.3	6.8	-175.61	-4,053.3	-848.4	4,777.9	4,764.1	13.77	346.908				
4,100.0	4,031.4	4,009.4	4,009.4	13.6	7.0	-175.64	-4,053.3	-848.4	4,796.3	4,782.2	14.14	339.318				
4,200.0	4,130.0	4,108.0	4,108.0	14.0	7.2	-175.67	-4,053.3	-848.4	4,813.1	4,798.6	14.50	332.035				
4,300.0	4,228.9	4,206.9	4,206.9	14.3	7.3	-175.69	-4,053.3	-848.4	4,828.1	4,813.2	14.85	325.036				
4,400.0	4,328.0	4,306.0	4,306.0	14.6	7.5	-175.71	-4,053.3	-848.4	4,841.3	4,826.1	15.21	318.301				
4,500.0	4,427.3	4,405.3	4,405.3	14.8	7.7	-175.73	-4,053.3	-848.4	4,852.9	4,837.3	15.56	311.812				
4,600.0	4,526.8	4,504.8	4,504.8	15.0	7.9	-175.75	-4,053.3	-848.4	4,862.7	4,846.8	15.91	305.552				
4,700.0	4,626.5	4,604.5	4,604.5	15.2	8.0	-175.76	-4,053.3	-848.4	4,870.8	4,854.5	16.26	299.507				
4,800.0	4,726.3	4,704.3	4,704.3	15.4	8.2	-175.77	-4,053.3	-848.4	4,877.1	4,860.5	16.61	293.661				
4,900.0	4,826.2	4,804.2	4,804.2	15.6	8.4	-175.78	-4,053.3	-848.4	4,881.7	4,864.8	16.95	288.003				
5,000.0	4,926.1	4,904.1	4,904.1	15.7	8.6	-175.79	-4,053.3	-848.4	4,884.6	4,867.3	17.29	282.520				

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #34-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
5,100.0	5,026.1	5,004.1	5,004.1	15.8	8.7	-175.79	-4,053.3	-848.4	4,885.7	4,868.1	17.63	277.203				
5,115.0	5,041.1	5,019.1	5,019.1	15.8	8.8	-168.94	-4,053.3	-848.4	4,885.8	4,868.1	17.68	276.416				
5,200.0	5,126.1	5,104.1	5,104.1	15.9	8.9	-168.94	-4,053.3	-848.4	4,885.8	4,867.8	17.97	271.856				
5,300.0	5,226.1	5,204.1	5,204.1	16.0	9.1	-168.94	-4,053.3	-848.4	4,885.8	4,867.4	18.32	266.679				
5,400.0	5,326.1	5,304.1	5,304.1	16.1	9.3	-168.94	-4,053.3	-848.4	4,885.8	4,867.1	18.67	261.696				
5,500.0	5,426.1	5,404.1	5,404.1	16.2	9.4	-168.94	-4,053.3	-848.4	4,885.8	4,866.7	19.02	256.895				
5,600.0	5,526.1	5,504.1	5,504.1	16.3	9.6	-168.94	-4,053.3	-848.4	4,885.8	4,866.4	19.37	252.267				
5,700.0	5,626.1	5,604.1	5,604.1	16.4	9.8	-168.94	-4,053.3	-848.4	4,885.8	4,866.0	19.72	247.803				
5,800.0	5,726.1	5,704.1	5,704.1	16.5	10.0	-168.94	-4,053.3	-848.4	4,885.8	4,865.7	20.07	243.494				
5,900.0	5,826.1	5,804.1	5,804.1	16.6	10.1	-168.94	-4,053.3	-848.4	4,885.8	4,865.3	20.41	239.333				
6,000.0	5,926.1	5,904.1	5,904.1	16.7	10.3	-168.94	-4,053.3	-848.4	4,885.8	4,865.0	20.76	235.311				
6,100.0	6,026.1	6,004.1	6,004.1	16.8	10.5	-168.94	-4,053.3	-848.4	4,885.8	4,864.6	21.11	231.422				
6,200.0	6,126.1	6,104.1	6,104.1	16.9	10.7	-168.94	-4,053.3	-848.4	4,885.8	4,864.3	21.46	227.659				
6,300.0	6,226.1	6,204.1	6,204.1	17.0	10.8	-168.94	-4,053.3	-848.4	4,885.8	4,863.9	21.81	224.017				
6,400.0	6,326.1	6,304.1	6,304.1	17.2	11.0	-168.94	-4,053.3	-848.4	4,885.8	4,863.6	22.16	220.489				
6,500.0	6,426.1	6,404.1	6,404.1	17.3	11.2	-168.94	-4,053.3	-848.4	4,885.8	4,863.3	22.51	217.071				
6,604.7	6,530.8	6,508.8	6,508.8	17.4	11.4	-168.94	-4,053.3	-848.4	4,885.8	4,862.9	22.87	213.604				
6,650.0	6,576.1	6,554.1	6,554.1	17.4	11.4	11.09	-4,053.3	-848.4	4,884.4	4,861.4	22.95	212.849				
6,700.0	6,625.8	6,603.8	6,603.8	17.4	11.5	11.18	-4,053.3	-848.4	4,879.5	4,856.6	22.96	212.499				
6,750.0	6,675.1	6,653.1	6,653.1	17.3	11.6	11.33	-4,053.3	-848.4	4,871.3	4,848.4	22.91	212.646				
6,800.0	6,723.7	6,701.7	6,701.7	17.2	11.7	11.54	-4,053.3	-848.4	4,859.8	4,837.0	22.79	213.280				
6,850.0	6,771.3	6,749.3	6,749.3	17.1	11.8	11.83	-4,053.3	-848.4	4,844.9	4,822.3	22.60	214.389				
6,900.0	6,817.8	6,795.8	6,795.8	16.9	11.9	12.20	-4,053.3	-848.4	4,826.9	4,804.5	22.35	215.955				
6,950.0	6,862.9	6,840.9	6,840.9	16.7	11.9	12.66	-4,053.3	-848.4	4,805.7	4,783.6	22.05	217.951				
7,000.0	6,906.3	6,884.3	6,884.3	16.4	12.0	13.22	-4,053.3	-848.4	4,781.4	4,759.7	21.70	220.339				
7,050.0	6,948.0	6,926.0	6,926.0	16.1	12.1	13.90	-4,053.3	-848.4	4,754.3	4,733.0	21.31	223.057				
7,100.0	6,987.6	6,965.6	6,965.6	15.9	12.2	14.73	-4,053.3	-848.4	4,724.4	4,703.5	20.90	226.008				
7,150.0	7,024.9	7,002.9	7,002.9	15.6	12.2	15.74	-4,053.3	-848.4	4,691.8	4,671.4	20.48	229.052				
7,200.0	7,059.9	7,037.9	7,037.9	15.3	12.3	16.97	-4,053.3	-848.4	4,656.8	4,636.8	20.07	231.974				
7,250.0	7,092.3	7,070.3	7,070.3	15.0	12.3	18.47	-4,053.3	-848.4	4,619.5	4,599.8	19.70	234.471				
7,300.0	7,121.9	7,099.9	7,099.9	14.7	12.4	20.33	-4,053.3	-848.4	4,580.1	4,560.7	19.40	236.112				
7,350.0	7,148.7	7,126.7	7,126.7	14.4	12.4	22.67	-4,053.3	-848.4	4,538.8	4,519.6	19.21	236.315				
7,400.0	7,172.4	7,150.4	7,150.4	14.2	12.5	25.65	-4,053.3	-848.4	4,495.8	4,476.6	19.18	234.342				
7,450.0	7,193.1	7,171.1	7,171.1	13.9	12.5	29.52	-4,053.3	-848.4	4,451.3	4,431.9	19.41	229.345				
7,500.0	7,210.5	7,188.5	7,188.5	13.8	12.5	34.65	-4,053.3	-848.4	4,405.5	4,385.5	19.97	220.554				
7,550.0	7,224.6	7,202.6	7,202.6	13.6	12.6	41.59	-4,053.3	-848.4	4,358.6	4,337.6	20.99	207.684				
7,600.0	7,235.3	7,213.3	7,213.3	13.5	12.6	51.06	-4,053.3	-848.4	4,310.9	4,288.5	22.49	191.660				
7,650.0	7,242.6	7,220.6	7,220.6	13.5	12.6	63.79	-4,053.3	-848.4	4,262.7	4,238.4	24.30	175.396				
7,700.0	7,246.4	7,224.4	7,224.4	13.5	12.6	79.71	-4,053.3	-848.4	4,214.1	4,188.3	25.76	163.611				
7,729.7	7,247.0	7,225.0	7,225.0	13.6	12.6	90.00	-4,053.3	-848.4	4,185.1	4,159.1	26.08	160.466				
7,800.0	7,247.0	7,225.0	7,225.0	13.7	12.6	90.00	-4,053.3	-848.4	4,116.7	4,090.4	26.26	156.781				
7,900.0	7,247.0	7,225.0	7,225.0	14.2	12.6	90.00	-4,053.3	-848.4	4,019.4	3,992.7	26.69	150.585				
8,000.0	7,247.0	7,225.0	7,225.0	14.8	12.6	90.00	-4,053.3	-848.4	3,922.2	3,894.9	27.32	143.547				
8,100.0	7,247.0	7,225.0	7,225.0	15.6	12.6	90.00	-4,053.3	-848.4	3,825.2	3,797.0	28.13	135.989				
8,200.0	7,247.0	7,225.0	7,225.0	16.5	12.6	90.00	-4,053.3	-848.4	3,728.3	3,699.2	29.08	128.200				
8,300.0	7,247.0	7,225.0	7,225.0	17.6	12.6	90.00	-4,053.3	-848.4	3,631.6	3,601.4	30.16	120.414				
8,400.0	7,247.0	7,225.0	7,225.0	18.8	12.6	90.00	-4,053.3	-848.4	3,535.1	3,503.7	31.34	112.801				
8,500.0	7,247.0	7,225.0	7,225.0	20.1	12.6	90.00	-4,053.3	-848.4	3,438.8	3,406.2	32.60	105.473				
8,600.0	7,247.0	7,225.0	7,225.0	21.4	12.6	90.00	-4,053.3	-848.4	3,342.7	3,308.7	33.94	98.496				
8,700.0	7,247.0	7,225.0	7,225.0	22.8	12.6	90.00	-4,053.3	-848.4	3,246.8	3,211.5	35.33	91.905				
8,800.0	7,247.0	7,225.0	7,225.0	24.2	12.6	90.00	-4,053.3	-848.4	3,151.2	3,114.4	36.77	85.709				
8,900.0	7,247.0	7,225.0	7,225.0	25.7	12.6	90.00	-4,053.3	-848.4	3,055.9	3,017.6	38.24	79.905				

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		S10-T2N-R66W (lone) - lone #34-10 (Existing) - Existing - Existing											Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,247.0	7,225.0	7,225.0	27.2	12.6	90.00	-4,053.3	-848.4	2,960.9	2,921.1	39.75	74.479		
9,100.0	7,247.0	7,225.0	7,225.0	28.7	12.6	90.00	-4,053.3	-848.4	2,866.2	2,824.9	41.29	69.412		
9,200.0	7,247.0	7,225.0	7,225.0	30.3	12.6	90.00	-4,053.3	-848.4	2,771.9	2,729.0	42.85	64.682		
9,300.0	7,247.0	7,225.0	7,225.0	31.9	12.6	90.00	-4,053.3	-848.4	2,678.0	2,633.6	44.44	60.266		
9,400.0	7,247.0	7,225.0	7,225.0	33.5	12.6	90.00	-4,053.3	-848.4	2,584.6	2,538.5	46.04	56.143		
9,500.0	7,247.0	7,225.0	7,225.0	35.1	12.6	90.00	-4,053.3	-848.4	2,491.7	2,444.0	47.65	52.292		
9,600.0	7,247.0	7,225.0	7,225.0	36.7	12.6	90.00	-4,053.3	-848.4	2,399.3	2,350.0	49.28	48.691		
9,700.0	7,247.0	7,225.0	7,225.0	38.3	12.6	90.00	-4,053.3	-848.4	2,307.6	2,256.7	50.91	45.324		
9,800.0	7,247.0	7,225.0	7,225.0	40.0	12.6	90.00	-4,053.3	-848.4	2,216.6	2,164.0	52.56	42.171		
9,900.0	7,247.0	7,225.0	7,225.0	41.6	12.6	90.00	-4,053.3	-848.4	2,126.4	2,072.2	54.22	39.220		
10,000.0	7,247.0	7,225.0	7,225.0	43.3	12.6	90.00	-4,053.3	-848.4	2,037.1	1,981.3	55.88	36.454		
10,100.0	7,247.0	7,225.0	7,225.0	45.0	12.6	90.00	-4,053.3	-848.4	1,948.9	1,891.4	57.55	33.863		
10,200.0	7,247.0	7,225.0	7,225.0	46.6	12.6	90.00	-4,053.3	-848.4	1,861.9	1,802.6	59.23	31.434		
10,300.0	7,247.0	7,225.0	7,225.0	48.3	12.6	90.00	-4,053.3	-848.4	1,776.2	1,715.3	60.91	29.160		
10,400.0	7,247.0	7,225.0	7,225.0	50.0	12.6	90.00	-4,053.3	-848.4	1,692.1	1,629.5	62.60	27.030		
10,500.0	7,247.0	7,225.0	7,225.0	51.7	12.6	90.00	-4,053.3	-848.4	1,609.8	1,545.5	64.29	25.039		
10,600.0	7,247.0	7,225.0	7,225.0	53.4	12.6	90.00	-4,053.3	-848.4	1,529.7	1,463.7	65.99	23.181		
10,700.0	7,247.0	7,225.0	7,225.0	55.1	12.6	90.00	-4,053.3	-848.4	1,452.0	1,384.3	67.69	21.451		
10,800.0	7,247.0	7,225.0	7,225.0	56.8	12.6	90.00	-4,053.3	-848.4	1,377.1	1,307.7	69.39	19.846		
10,900.0	7,247.0	7,225.0	7,225.0	58.5	12.6	90.00	-4,053.3	-848.4	1,305.7	1,234.6	71.10	18.365		
11,000.0	7,247.0	7,225.0	7,225.0	60.2	12.6	90.00	-4,053.3	-848.4	1,238.2	1,165.4	72.81	17.007		
11,100.0	7,247.0	7,225.0	7,225.0	61.9	12.6	90.00	-4,053.3	-848.4	1,175.4	1,100.8	74.52	15.773		
11,200.0	7,247.0	7,225.0	7,225.0	63.6	12.6	90.00	-4,053.3	-848.4	1,117.9	1,041.7	76.23	14.665		
11,300.0	7,247.0	7,225.0	7,225.0	65.4	12.6	90.00	-4,053.3	-848.4	1,066.8	988.9	77.95	13.687		
11,400.0	7,247.0	7,225.0	7,225.0	67.1	12.6	90.00	-4,053.3	-848.4	1,023.0	943.3	79.66	12.841		
11,500.0	7,247.0	7,225.0	7,225.0	68.8	12.6	90.00	-4,053.3	-848.4	987.3	905.9	81.38	12.131		
11,600.0	7,247.0	7,225.0	7,225.0	70.5	12.6	90.00	-4,053.3	-848.4	960.8	877.7	83.10	11.561		
11,700.0	7,247.0	7,225.0	7,225.0	72.2	12.6	90.00	-4,053.3	-848.4	944.1	859.3	84.83	11.130		
11,800.0	7,247.0	7,225.0	7,225.0	74.0	12.6	90.00	-4,053.3	-848.4	937.9	851.4	86.55	10.837		
11,808.4	7,247.0	7,225.0	7,225.0	74.1	12.6	90.00	-4,053.3	-848.4	937.9	851.2	86.70	10.818 CC		
11,816.8	7,247.0	7,225.0	7,225.0	74.2	12.6	90.00	-4,053.3	-848.4	937.9	851.1	86.84	10.800 ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #41-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 8200-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	67.69	309.7	754.7	815.9					
100.0	100.0	84.0	84.0	0.2	0.1	67.69	309.7	754.7	815.7	815.4	0.30	2,731.375		
200.0	200.0	184.0	184.0	0.3	0.3	67.69	309.7	754.7	815.7	815.1	0.65	1,259.391		
300.0	300.0	284.0	284.0	0.5	0.5	67.69	309.7	754.7	815.7	814.7	1.00	818.362		
400.0	400.0	384.0	384.0	0.7	0.7	67.69	309.7	754.7	815.7	814.4	1.35	606.108		
500.0	500.0	484.0	484.0	0.8	0.8	67.69	309.7	754.7	815.7	814.0	1.69	481.280		
600.0	600.0	584.0	584.0	1.0	1.0	60.90	309.7	754.7	815.3	813.3	2.04	398.824		
700.0	700.0	684.0	684.0	1.2	1.2	61.07	309.7	754.7	814.0	811.6	2.40	339.827		
800.0	799.9	783.9	783.9	1.4	1.4	61.36	309.7	754.7	811.9	809.2	2.75	295.171		
900.0	899.7	883.7	883.7	1.6	1.5	61.76	309.7	754.7	809.0	805.9	3.11	259.904		
1,000.0	999.4	983.4	983.4	1.8	1.7	62.28	309.7	754.7	805.3	801.8	3.48	231.121		
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	62.93	309.7	754.7	800.9	797.0	3.87	207.019		
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	63.70	309.7	754.7	795.8	791.5	4.27	186.428		
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	64.59	309.7	754.7	790.1	785.4	4.69	168.560		
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	65.61	309.7	754.7	783.8	778.6	5.13	152.870		
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	66.77	309.7	754.7	777.0	771.4	5.59	138.971		
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	68.07	309.7	754.7	769.9	763.9	6.08	126.581		
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	69.50	309.7	754.7	762.6	756.0	6.60	115.493		
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	71.08	309.7	754.7	755.1	748.0	7.15	105.546		
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	72.67	309.7	754.7	748.0	740.3	7.72	96.892		
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	74.29	309.7	754.7	741.4	733.1	8.29	89.382		
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	75.94	309.7	754.7	735.5	726.6	8.88	82.840		
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	77.61	309.7	754.7	730.2	720.8	9.47	77.119		
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	79.30	309.7	754.7	725.6	715.5	10.06	72.101		
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	81.01	309.7	754.7	721.7	711.0	10.66	67.684		
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	82.74	309.7	754.7	718.4	707.1	11.26	63.787		
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	84.48	309.7	754.7	715.8	704.0	11.86	60.340		
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	86.23	309.7	754.7	714.0	701.5	12.46	57.286		
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	87.99	309.7	754.7	712.8	699.7	13.06	54.576		
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	89.75	309.7	754.7	712.3	698.7	13.65	52.167		
2,914.1	2,874.4	2,858.4	2,858.4	8.7	5.0	90.00	309.7	754.7	712.3	698.6	13.74	51.849		
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	91.51	309.7	754.7	712.6	698.4	14.24	50.026		
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	93.27	309.7	754.7	713.6	698.7	14.83	48.122		
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	95.03	309.7	754.7	715.2	699.8	15.40	46.429		
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	96.77	309.7	754.7	717.6	701.6	15.97	44.923		
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	98.50	309.7	754.7	720.7	704.1	16.53	43.586		
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	100.22	309.7	754.7	724.4	707.3	17.09	42.400		
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	101.92	309.7	754.7	728.9	711.2	17.63	41.349		
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	103.59	309.7	754.7	733.9	715.8	18.16	40.421		
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	105.25	309.7	754.7	739.7	721.0	18.68	39.604		
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	105.49	309.7	754.7	740.6	721.8	18.75	39.490		
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	106.88	309.7	754.7	745.9	726.7	19.17	38.909		
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	108.39	309.7	754.7	752.1	732.5	19.63	38.312		
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	109.75	309.7	754.7	758.2	738.2	20.07	37.785		
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	110.97	309.7	754.7	764.1	743.7	20.48	37.311		
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	112.06	309.7	754.7	769.7	748.8	20.87	36.878		
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	113.01	309.7	754.7	774.9	753.6	21.25	36.473		
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	113.84	309.7	754.7	779.5	757.9	21.60	36.087		
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	114.53	309.7	754.7	783.5	761.6	21.94	35.713		
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	115.09	309.7	754.7	787.0	764.7	22.26	35.345		
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	115.54	309.7	754.7	789.7	767.1	22.58	34.979		
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	115.86	309.7	754.7	791.7	768.8	22.87	34.610		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #41-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 8200-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	116.06	309.7	754.7	792.9	769.8	23.16	34.236		
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	116.13	309.7	754.7	793.4	770.0	23.44	33.856		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	122.98	309.7	754.7	793.5	770.0	23.48	33.797		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	122.98	309.7	754.7	793.5	769.7	23.72	33.457		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	122.98	309.7	754.7	793.5	769.5	24.00	33.064		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	122.98	309.7	754.7	793.5	769.2	24.28	32.678		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	122.98	309.7	754.7	793.5	768.9	24.57	32.300		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	122.98	309.7	754.7	793.5	768.6	24.85	31.928		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	122.98	309.7	754.7	793.5	768.3	25.14	31.564		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	122.98	309.7	754.7	793.5	768.0	25.43	31.207		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	122.98	309.7	754.7	793.5	767.7	25.71	30.856		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	122.98	309.7	754.7	793.5	767.4	26.01	30.511		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	122.98	309.7	754.7	793.5	767.2	26.30	30.173		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	122.98	309.7	754.7	793.5	766.9	26.59	29.842		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	122.98	309.7	754.7	793.5	766.6	26.88	29.516		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	122.98	309.7	754.7	793.5	766.3	27.18	29.196		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	122.98	309.7	754.7	793.5	766.0	27.47	28.882		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	122.98	309.7	754.7	793.5	765.7	27.78	28.560		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	-57.15	309.7	754.7	792.7	764.8	27.88	28.432		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	-57.63	309.7	754.7	790.0	762.1	27.95	28.263		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	-58.44	309.7	754.7	785.6	757.6	28.00	28.060		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	-59.59	309.7	754.7	779.4	751.4	28.01	27.825		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	-61.08	309.7	754.7	771.6	743.6	28.00	27.560		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	-62.88	309.7	754.7	762.4	734.5	27.96	27.266		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	-64.99	309.7	754.7	752.1	724.2	27.91	26.950		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	-67.38	309.7	754.7	740.9	713.1	27.83	26.619		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	-70.00	309.7	754.7	729.2	701.5	27.74	26.284		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	-72.80	309.7	754.7	717.3	689.6	27.63	25.957		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	-75.71	309.7	754.7	705.6	678.1	27.50	25.656		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	-78.63	309.7	754.7	694.5	667.2	27.35	25.398		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	-81.49	309.7	754.7	684.6	657.4	27.17	25.198		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	-84.18	309.7	754.7	676.3	649.3	26.97	25.074		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	-86.61	309.7	754.7	670.1	643.3	26.77	25.035 SF		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	-88.70	309.7	754.7	666.4	639.8	26.56	25.090		
7,437.5	7,188.2	7,172.2	7,172.2	14.0	12.5	-90.00	309.7	754.7	665.5	639.1	26.42	25.192 CC, ES		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	-90.38	309.7	754.7	665.6	639.3	26.37	25.243		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	-91.58	309.7	754.7	668.1	641.9	26.21	25.493		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	-92.27	309.7	754.7	674.0	647.9	26.09	25.836		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	-92.40	309.7	754.7	683.4	657.4	26.02	26.265		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	-91.96	309.7	754.7	696.3	670.3	26.01	26.775		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	-90.91	309.7	754.7	712.5	686.5	26.05	27.357		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	-90.00	309.7	754.7	723.7	697.6	26.09	27.735		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	-90.00	309.7	754.7	754.0	727.8	26.27	28.706		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	-90.00	309.7	754.7	805.9	779.2	26.70	30.182		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	-90.00	309.7	754.7	866.2	838.9	27.33	31.691		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	-90.00	309.7	754.7	933.4	905.3	28.14	33.172		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	-90.00	309.7	754.7	1,006.1	977.0	29.09	34.582		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	-90.00	309.7	754.7	1,083.1	1,052.9	30.17	35.900		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	-90.00	309.7	754.7	1,163.6	1,132.3	31.35	37.117		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	-90.00	309.7	754.7	1,246.9	1,214.3	32.61	38.234		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	-90.00	309.7	754.7	1,332.6	1,298.6	33.95	39.254		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	-90.00	309.7	754.7	1,420.1	1,384.8	35.34	40.185		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #41-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 8200-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		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	-90.00	309.7	754.7	1,509.2	1,472.4	36.78	41.036		
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	-90.00	309.7	754.7	1,599.5	1,561.3	38.25	41.813		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	-90.00	309.7	754.7	1,691.0	1,651.2	39.76	42.524		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	-90.00	309.7	754.7	1,783.3	1,742.0	41.30	43.177		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	-90.00	309.7	754.7	1,876.5	1,833.6	42.86	43.776		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	-90.00	309.7	754.7	1,970.3	1,925.8	44.45	44.329		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	-90.00	309.7	754.7	2,064.7	2,018.6	46.05	44.840		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	-90.00	309.7	754.7	2,159.6	2,111.9	47.66	45.313		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	-90.00	309.7	754.7	2,254.9	2,205.6	49.29	45.752		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	-90.00	309.7	754.7	2,350.7	2,299.7	50.92	46.160		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	-90.00	309.7	754.7	2,446.7	2,394.2	52.57	46.541		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	-90.00	309.7	754.7	2,543.1	2,488.9	54.23	46.896		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	-90.00	309.7	754.7	2,639.8	2,583.9	55.89	47.229		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	-90.00	309.7	754.7	2,736.6	2,679.1	57.56	47.541		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	-90.00	309.7	754.7	2,833.7	2,774.5	59.24	47.834		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	-90.00	309.7	754.7	2,931.0	2,870.1	60.92	48.110		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	-90.00	309.7	754.7	3,028.5	2,965.9	62.61	48.370		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	-90.00	309.7	754.7	3,126.1	3,061.8	64.30	48.616		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	-90.00	309.7	754.7	3,223.9	3,157.9	66.00	48.848		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	-90.00	309.7	754.7	3,321.8	3,254.1	67.70	49.068		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	-90.00	309.7	754.7	3,419.9	3,350.5	69.40	49.277		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	-90.00	309.7	754.7	3,518.0	3,446.9	71.11	49.475		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	-90.00	309.7	754.7	3,616.3	3,543.4	72.82	49.663		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	-90.00	309.7	754.7	3,714.6	3,640.1	74.53	49.842		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	-90.00	309.7	754.7	3,813.0	3,736.8	76.24	50.013		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	-90.00	309.7	754.7	3,911.5	3,833.6	77.96	50.176		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	-90.00	309.7	754.7	4,010.1	3,930.4	79.67	50.331		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	-90.00	309.7	754.7	4,108.7	4,027.3	81.39	50.480		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	-90.00	309.7	754.7	4,207.5	4,124.3	83.11	50.622		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	-90.00	309.7	754.7	4,306.2	4,221.4	84.84	50.759		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	-90.00	309.7	754.7	4,405.0	4,318.5	86.56	50.889		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	-90.00	309.7	754.7	4,421.7	4,334.8	86.85	50.911		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #43-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	163.87	-2,363.1	683.5	2,460.0					
100.0	100.0	84.0	84.0	0.2	0.1	163.87	-2,363.1	683.5	2,459.9	2,459.6	0.30	8,241.363		
200.0	200.0	184.0	184.0	0.3	0.3	163.87	-2,363.1	683.5	2,459.9	2,459.3	0.65	3,798.988		
300.0	300.0	284.0	284.0	0.5	0.5	163.87	-2,363.1	683.5	2,459.9	2,458.9	1.00	2,468.345		
400.0	400.0	384.0	384.0	0.7	0.7	163.87	-2,363.1	683.5	2,459.9	2,458.6	1.35	1,828.048		
500.0	500.0	484.0	484.0	0.8	0.8	163.87	-2,363.1	683.5	2,459.9	2,458.2	1.69	1,451.519		
600.0	600.0	584.0	584.0	1.0	1.0	157.02	-2,363.1	683.5	2,460.7	2,458.7	2.04	1,204.065		
700.0	700.0	684.0	684.0	1.2	1.2	157.04	-2,363.1	683.5	2,463.1	2,460.7	2.39	1,029.489		
800.0	799.9	783.9	783.9	1.4	1.4	157.06	-2,363.1	683.5	2,467.1	2,464.4	2.74	899.851		
900.0	899.7	883.7	883.7	1.6	1.5	157.09	-2,363.1	683.5	2,472.8	2,469.7	3.09	799.862		
1,000.0	999.4	983.4	983.4	1.8	1.7	157.14	-2,363.1	683.5	2,480.0	2,476.6	3.44	720.459		
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	157.19	-2,363.1	683.5	2,488.8	2,485.0	3.79	655.930		
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	157.25	-2,363.1	683.5	2,499.3	2,495.1	4.15	602.500		
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	157.32	-2,363.1	683.5	2,511.3	2,506.8	4.50	557.575		
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	157.39	-2,363.1	683.5	2,525.0	2,520.1	4.86	519.314		
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	157.48	-2,363.1	683.5	2,540.3	2,535.1	5.22	486.373		
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	157.57	-2,363.1	683.5	2,557.2	2,551.6	5.59	457.751		
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	157.66	-2,363.1	683.5	2,575.6	2,569.7	5.95	432.685		
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	157.77	-2,363.1	683.5	2,595.7	2,589.4	6.32	410.584		
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	157.95	-2,363.1	683.5	2,616.6	2,609.9	6.70	390.449		
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	158.14	-2,363.1	683.5	2,637.6	2,630.5	7.08	372.445		
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	158.32	-2,363.1	683.5	2,658.6	2,651.1	7.46	356.265		
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	158.49	-2,363.1	683.5	2,679.5	2,671.7	7.84	341.656		
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	158.67	-2,363.1	683.5	2,700.6	2,692.3	8.22	328.408		
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	158.84	-2,363.1	683.5	2,721.6	2,713.0	8.60	316.343		
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	159.01	-2,363.1	683.5	2,742.6	2,733.7	8.98	305.316		
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	159.18	-2,363.1	683.5	2,763.7	2,754.4	9.36	295.200		
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	159.34	-2,363.1	683.5	2,784.8	2,775.1	9.74	285.890		
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	159.50	-2,363.1	683.5	2,806.0	2,795.8	10.12	277.294		
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	159.66	-2,363.1	683.5	2,827.1	2,816.6	10.50	269.336		
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	159.82	-2,363.1	683.5	2,848.3	2,837.4	10.87	261.948		
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	159.97	-2,363.1	683.5	2,869.5	2,858.2	11.25	255.072		
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	160.12	-2,363.1	683.5	2,890.7	2,879.0	11.63	248.658		
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	160.27	-2,363.1	683.5	2,911.9	2,899.9	12.00	242.660		
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	160.42	-2,363.1	683.5	2,933.1	2,920.8	12.37	237.040		
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	160.57	-2,363.1	683.5	2,954.4	2,941.7	12.75	231.765		
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	160.71	-2,363.1	683.5	2,975.7	2,962.6	13.12	226.803		
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	160.85	-2,363.1	683.5	2,997.0	2,983.5	13.49	222.128		
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	160.99	-2,363.1	683.5	3,018.3	3,004.4	13.86	217.716		
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	161.01	-2,363.1	683.5	3,021.5	3,007.6	13.92	217.075		
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	161.18	-2,363.1	683.5	3,039.1	3,024.8	14.24	213.379		
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	161.37	-2,363.1	683.5	3,058.2	3,043.6	14.62	209.208		
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	161.54	-2,363.1	683.5	3,075.8	3,060.8	14.99	205.205		
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	161.68	-2,363.1	683.5	3,091.7	3,076.3	15.35	201.352		
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	161.82	-2,363.1	683.5	3,106.0	3,090.3	15.72	197.635		
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	161.93	-2,363.1	683.5	3,118.7	3,102.6	16.07	194.040		
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	162.03	-2,363.1	683.5	3,129.7	3,113.3	16.42	190.555		
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	162.12	-2,363.1	683.5	3,139.1	3,122.3	16.77	187.171		
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	162.19	-2,363.1	683.5	3,146.8	3,129.7	17.11	183.878		
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	162.24	-2,363.1	683.5	3,152.8	3,135.4	17.45	180.669		
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	162.28	-2,363.1	683.5	3,157.2	3,139.5	17.78	177.535		
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	162.30	-2,363.1	683.5	3,160.0	3,141.9	18.11	174.472		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #43-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning	
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	162.31	-2,363.1	683.5	3,161.1	3,142.6	18.43	171.473		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	169.16	-2,363.1	683.5	3,161.1	3,142.6	18.48	171.029		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	169.16	-2,363.1	683.5	3,161.1	3,142.3	18.77	168.436		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	169.16	-2,363.1	683.5	3,161.1	3,142.0	19.10	165.481		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	169.16	-2,363.1	683.5	3,161.1	3,141.6	19.44	162.623		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	169.16	-2,363.1	683.5	3,161.1	3,141.3	19.77	159.859		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	169.16	-2,363.1	683.5	3,161.1	3,141.0	20.11	157.184		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	169.16	-2,363.1	683.5	3,161.1	3,140.6	20.45	154.594		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	169.16	-2,363.1	683.5	3,161.1	3,140.3	20.78	152.085		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	169.16	-2,363.1	683.5	3,161.1	3,140.0	21.12	149.654		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	169.16	-2,363.1	683.5	3,161.1	3,139.6	21.46	147.297		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	169.16	-2,363.1	683.5	3,161.1	3,139.3	21.80	145.011		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	169.16	-2,363.1	683.5	3,161.1	3,138.9	22.14	142.793		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	169.16	-2,363.1	683.5	3,161.1	3,138.6	22.48	140.640		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	169.16	-2,363.1	683.5	3,161.1	3,138.3	22.82	138.548		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	169.16	-2,363.1	683.5	3,161.1	3,137.9	23.16	136.517		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	169.16	-2,363.1	683.5	3,161.1	3,137.6	23.51	134.451		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	-10.86	-2,363.1	683.5	3,159.7	3,136.1	23.59	133.967		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	-10.95	-2,363.1	683.5	3,154.9	3,131.3	23.60	133.685		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	-11.11	-2,363.1	683.5	3,146.7	3,123.1	23.54	133.658		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	-11.33	-2,363.1	683.5	3,135.1	3,111.7	23.42	133.880		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	-11.64	-2,363.1	683.5	3,120.2	3,097.0	23.23	134.342		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	-12.02	-2,363.1	683.5	3,102.1	3,079.2	22.97	135.033		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	-12.51	-2,363.1	683.5	3,080.9	3,058.3	22.66	135.935		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	-13.10	-2,363.1	683.5	3,056.7	3,034.4	22.31	137.023		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	-13.82	-2,363.1	683.5	3,029.5	3,007.6	21.91	138.258		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	-14.70	-2,363.1	683.5	2,999.6	2,978.1	21.49	139.582		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	-15.77	-2,363.1	683.5	2,967.1	2,946.0	21.06	140.906		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	-17.07	-2,363.1	683.5	2,932.1	2,911.5	20.63	142.105		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	-18.66	-2,363.1	683.5	2,894.8	2,874.6	20.24	142.993		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	-20.64	-2,363.1	683.5	2,855.4	2,835.5	19.92	143.314		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	-23.13	-2,363.1	683.5	2,814.1	2,794.4	19.72	142.721		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	-26.29	-2,363.1	683.5	2,771.2	2,751.5	19.68	140.780		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	-30.39	-2,363.1	683.5	2,726.7	2,706.8	19.90	137.006		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	-35.79	-2,363.1	683.5	2,681.0	2,660.5	20.47	131.000		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	-43.00	-2,363.1	683.5	2,634.2	2,612.8	21.47	122.716		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	-52.65	-2,363.1	683.5	2,586.7	2,563.8	22.92	112.872		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	-65.24	-2,363.1	683.5	2,538.6	2,514.0	24.58	103.265		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	-80.42	-2,363.1	683.5	2,490.2	2,464.3	25.84	96.375		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	-90.00	-2,363.1	683.5	2,461.3	2,435.2	26.09	94.334		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	-90.00	-2,363.1	683.5	2,393.2	2,366.9	26.27	91.106		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	-90.00	-2,363.1	683.5	2,296.4	2,269.7	26.70	86.002		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	-90.00	-2,363.1	683.5	2,200.0	2,172.7	27.33	80.486		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	-90.00	-2,363.1	683.5	2,103.9	2,075.7	28.14	74.767		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	-90.00	-2,363.1	683.5	2,008.1	1,979.1	29.09	69.027		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	-90.00	-2,363.1	683.5	1,912.9	1,882.7	30.17	63.403		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	-90.00	-2,363.1	683.5	1,818.1	1,786.7	31.35	57.993		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	-90.00	-2,363.1	683.5	1,723.9	1,691.3	32.61	52.857		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	-90.00	-2,363.1	683.5	1,630.4	1,596.4	33.95	48.026		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	-90.00	-2,363.1	683.5	1,537.7	1,502.3	35.34	43.513		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	-90.00	-2,363.1	683.5	1,445.9	1,409.2	36.78	39.317		
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	-90.00	-2,363.1	683.5	1,355.4	1,317.1	38.25	35.431		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		S10-T2N-R66W (lone) - lone #43-10 (Existing) - Existing - Existing											Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	-90.00	-2,363.1	683.5	1,266.3	1,226.5	39.76	31.844		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	-90.00	-2,363.1	683.5	1,178.9	1,137.6	41.30	28.543		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	-90.00	-2,363.1	683.5	1,093.7	1,050.8	42.86	25.515		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	-90.00	-2,363.1	683.5	1,011.2	966.7	44.45	22.751		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	-90.00	-2,363.1	683.5	932.1	886.1	46.05	20.244		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	-90.00	-2,363.1	683.5	857.4	809.8	47.66	17.991		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	-90.00	-2,363.1	683.5	788.4	739.1	49.29	15.996		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	-90.00	-2,363.1	683.5	726.6	675.7	50.92	14.268		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	-90.00	-2,363.1	683.5	674.0	621.4	52.57	12.820		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	-90.00	-2,363.1	683.5	632.9	578.7	54.23	11.672		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	-90.00	-2,363.1	683.5	605.8	549.9	55.89	10.838		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	-90.00	-2,363.1	683.5	594.4	536.8	57.56	10.326		
10,118.2	7,247.0	7,231.0	7,231.0	45.3	12.6	-90.00	-2,363.1	683.5	594.1	536.3	57.87	10.267 CC, ES		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	-90.00	-2,363.1	683.5	599.7	540.5	59.24	10.124 SF		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	-90.00	-2,363.1	683.5	621.3	560.4	60.92	10.198		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	-90.00	-2,363.1	683.5	657.6	594.9	62.61	10.502		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	-90.00	-2,363.1	683.5	706.2	641.9	64.30	10.982		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	-90.00	-2,363.1	683.5	764.9	698.9	66.00	11.590		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	-90.00	-2,363.1	683.5	831.5	763.8	67.70	12.283		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	-90.00	-2,363.1	683.5	904.3	834.9	69.40	13.030		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	-90.00	-2,363.1	683.5	981.9	910.8	71.11	13.809		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	-90.00	-2,363.1	683.5	1,063.2	990.4	72.82	14.602		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	-90.00	-2,363.1	683.5	1,147.5	1,073.0	74.53	15.398		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	-90.00	-2,363.1	683.5	1,234.2	1,157.9	76.24	16.188		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	-90.00	-2,363.1	683.5	1,322.7	1,244.7	77.96	16.967		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	-90.00	-2,363.1	683.5	1,412.8	1,333.1	79.67	17.732		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	-90.00	-2,363.1	683.5	1,504.1	1,422.7	81.39	18.479		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	-90.00	-2,363.1	683.5	1,596.4	1,513.3	83.11	19.208		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	-90.00	-2,363.1	683.5	1,689.7	1,604.8	84.84	19.916		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	-90.00	-2,363.1	683.5	1,783.6	1,697.1	86.56	20.605		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	-90.00	-2,363.1	683.5	1,799.5	1,712.7	86.85	20.719		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #44-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 100-Gyro													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	4.9	4.9	0.0	0.0	170.32	-4,061.0	692.5	4,119.6					
100.0	100.0	104.3	104.3	0.2	0.1	170.31	-4,060.9	693.1	4,119.6	4,119.4	0.24	N/A		
200.0	200.0	228.6	228.6	0.3	0.2	170.30	-4,060.3	694.1	4,119.3	4,118.7	0.53	7,819.774		
300.0	300.0	334.8	334.7	0.5	0.3	170.29	-4,059.5	694.7	4,118.7	4,117.9	0.79	5,185.813		
400.0	400.0	449.7	449.7	0.7	0.4	170.28	-4,058.3	695.4	4,117.7	4,116.7	1.07	3,850.400		
500.0	500.0	564.5	564.5	0.8	0.5	170.26	-4,056.8	696.1	4,116.5	4,115.1	1.35	3,060.504		
600.0	600.0	688.7	688.6	1.0	0.6	163.39	-4,054.3	697.8	4,115.6	4,114.0	1.63	2,526.649		
624.5	624.5	715.3	715.2	1.1	0.6	163.39	-4,053.7	698.2	4,115.5	4,113.9	1.70	2,427.538		
700.0	700.0	789.4	789.3	1.2	0.7	163.37	-4,051.9	699.5	4,116.0	4,114.1	1.89	2,174.190		
800.0	799.9	866.0	865.8	1.4	0.8	163.35	-4,050.2	701.0	4,118.4	4,116.3	2.14	1,928.154		
900.0	899.7	956.4	956.2	1.6	0.8	163.34	-4,048.8	702.6	4,123.0	4,120.6	2.39	1,723.536		
1,000.0	999.4	1,047.3	1,047.1	1.8	0.9	163.32	-4,047.3	704.6	4,129.3	4,126.7	2.65	1,558.322		
1,100.0	1,098.9	1,145.9	1,145.6	2.0	1.0	163.30	-4,046.1	706.5	4,137.6	4,134.7	2.92	1,419.298		
1,200.0	1,198.3	1,256.7	1,256.5	2.2	1.1	163.29	-4,044.4	708.3	4,147.2	4,144.0	3.19	1,298.786		
1,300.0	1,297.4	1,358.2	1,357.9	2.5	1.2	163.29	-4,042.8	710.1	4,158.5	4,155.0	3.46	1,200.320		
1,400.0	1,396.3	1,448.4	1,448.1	2.8	1.3	163.28	-4,041.4	711.3	4,171.3	4,167.6	3.73	1,119.064		
1,500.0	1,494.9	1,547.5	1,547.2	3.1	1.4	163.29	-4,040.2	712.5	4,186.2	4,182.2	4.00	1,046.332		
1,600.0	1,593.3	1,646.2	1,645.8	3.4	1.5	163.29	-4,038.7	713.5	4,202.4	4,198.1	4.28	982.700		
1,700.0	1,691.2	1,742.9	1,742.5	3.8	1.5	163.30	-4,037.7	714.4	4,220.6	4,216.1	4.55	927.008		
1,800.0	1,788.9	1,855.4	1,855.1	4.2	1.6	163.33	-4,036.0	714.9	4,240.0	4,235.1	4.85	874.916		
1,900.0	1,886.3	1,945.5	1,945.1	4.6	1.7	163.40	-4,034.7	715.2	4,260.2	4,255.1	5.12	831.593		
2,000.0	1,983.7	2,033.7	2,033.3	5.0	1.8	163.48	-4,033.7	714.9	4,280.7	4,275.3	5.40	792.964		
2,100.0	2,081.2	2,100.0	2,099.6	5.4	1.9	163.54	-4,033.1	714.6	4,301.5	4,295.8	5.66	760.589		
2,200.0	2,178.6	2,178.1	2,177.7	5.8	1.9	163.62	-4,033.0	714.1	4,322.8	4,316.9	5.92	729.867		
2,300.0	2,276.1	2,296.6	2,296.2	6.2	2.0	163.73	-4,033.2	713.3	4,344.6	4,338.4	6.22	697.960		
2,400.0	2,373.5	2,394.3	2,393.9	6.6	2.1	163.82	-4,032.9	712.8	4,365.9	4,359.4	6.51	670.728		
2,500.0	2,470.9	2,475.5	2,475.1	7.0	2.2	163.89	-4,032.8	712.5	4,387.3	4,380.6	6.78	647.086		
2,600.0	2,568.4	2,567.1	2,566.7	7.4	2.3	163.97	-4,032.9	712.5	4,409.1	4,402.1	7.06	624.516		
2,700.0	2,665.8	2,671.7	2,671.3	7.8	2.4	164.05	-4,033.0	712.5	4,430.9	4,423.5	7.35	602.762		
2,800.0	2,763.2	2,780.3	2,780.0	8.3	2.4	164.14	-4,032.8	712.6	4,452.4	4,444.8	7.65	582.374		
2,900.0	2,860.7	2,914.7	2,914.3	8.7	2.6	164.24	-4,031.8	713.1	4,473.4	4,465.4	7.96	561.867		
3,000.0	2,958.1	3,000.0	2,999.6	9.1	2.6	164.31	-4,031.0	713.2	4,494.2	4,486.0	8.24	545.690		
3,100.0	3,055.6	3,113.8	3,113.4	9.5	2.7	164.40	-4,030.0	712.4	4,515.0	4,506.5	8.53	529.153		
3,200.0	3,153.0	3,223.0	3,222.5	10.0	2.8	164.50	-4,028.7	711.1	4,535.4	4,526.6	8.82	513.951		
3,300.0	3,250.4	3,316.5	3,316.1	10.4	2.9	164.59	-4,027.6	709.8	4,555.7	4,546.6	9.10	500.442		
3,400.0	3,347.9	3,400.0	3,399.5	10.8	3.0	164.67	-4,026.8	708.6	4,576.3	4,566.9	9.37	488.206		
3,500.0	3,445.3	3,491.7	3,491.2	11.2	3.1	164.75	-4,026.1	707.3	4,597.1	4,587.4	9.65	476.362		
3,600.0	3,542.7	3,580.3	3,579.9	11.7	3.1	164.83	-4,025.5	706.0	4,618.1	4,608.1	9.92	465.326		
3,700.0	3,640.2	3,676.3	3,675.8	12.1	3.2	164.92	-4,025.1	704.5	4,639.2	4,629.0	10.20	454.652		
3,800.0	3,737.6	3,761.2	3,760.7	12.5	3.3	165.00	-4,024.8	703.0	4,660.4	4,649.9	10.47	444.957		
3,815.0	3,752.2	3,773.3	3,772.8	12.6	3.3	165.01	-4,024.8	702.8	4,663.6	4,653.1	10.51	443.571		
3,900.0	3,835.2	3,849.6	3,849.1	12.9	3.4	165.13	-4,024.8	701.6	4,681.3	4,670.6	10.74	435.805		
4,000.0	3,933.1	3,944.4	3,943.9	13.3	3.5	165.25	-4,024.7	701.2	4,700.7	4,689.7	11.01	426.892		
4,100.0	4,031.4	4,045.4	4,044.9	13.6	3.5	165.35	-4,024.6	701.4	4,718.5	4,707.2	11.28	418.197		
4,200.0	4,130.0	4,140.3	4,139.8	14.0	3.6	165.44	-4,024.4	701.2	4,734.5	4,723.0	11.55	410.089		
4,300.0	4,228.9	4,226.4	4,225.9	14.3	3.7	165.53	-4,024.6	700.1	4,749.2	4,737.4	11.80	402.639		
4,400.0	4,328.0	4,343.8	4,343.2	14.6	3.8	165.65	-4,025.0	697.2	4,762.1	4,750.0	12.07	394.671		
4,500.0	4,427.3	4,488.6	4,488.0	14.8	3.9	165.78	-4,024.7	692.2	4,772.7	4,760.3	12.36	386.282		
4,600.0	4,526.8	4,623.4	4,622.7	15.0	4.0	165.90	-4,023.1	686.9	4,780.5	4,767.9	12.63	378.391		
4,700.0	4,626.5	4,708.5	4,707.6	15.2	4.1	165.97	-4,022.0	683.9	4,786.7	4,773.8	12.87	371.946		
4,800.0	4,726.3	4,800.0	4,799.1	15.4	4.2	166.03	-4,021.1	680.9	4,791.4	4,778.3	13.11	365.552		
4,900.0	4,826.2	4,881.0	4,880.0	15.6	4.3	166.08	-4,020.5	678.0	4,794.8	4,781.4	13.33	359.593		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #44-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													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)				
5,000.0	4,926.1	4,949.2	4,948.2	15.7	4.3	166.13	-4,020.3	675.4	4,796.8	4,783.3	13.55	354.092		
5,100.0	5,026.1	5,016.2	5,015.2	15.8	4.4	166.16	-4,020.7	672.6	4,798.0	4,784.2	13.76	348.793		
5,115.0	5,041.1	5,029.1	5,028.0	15.8	4.4	173.02	-4,020.8	672.0	4,798.0	4,784.2	13.79	347.955		
5,200.0	5,126.1	5,103.1	5,102.0	15.9	4.5	173.06	-4,021.6	668.9	4,798.5	4,784.5	13.99	342.925		
5,300.0	5,226.1	5,237.9	5,236.7	16.0	4.6	173.12	-4,022.4	664.1	4,798.7	4,784.4	14.27	336.188		
5,400.0	5,326.1	5,357.7	5,356.4	16.1	4.7	173.17	-4,022.6	659.8	4,798.3	4,783.8	14.54	329.942		
5,500.0	5,426.1	5,453.6	5,452.2	16.2	4.8	173.21	-4,022.5	655.9	4,797.8	4,783.0	14.79	324.354		
5,600.0	5,526.1	5,537.2	5,535.8	16.3	4.9	173.25	-4,022.6	653.0	4,797.5	4,782.5	15.03	319.180		
5,627.5	5,553.6	5,560.1	5,558.6	16.3	4.9	173.26	-4,022.7	652.2	4,797.5	4,782.4	15.10	317.790		
5,700.0	5,626.1	5,622.6	5,621.1	16.4	4.9	173.28	-4,023.0	650.2	4,797.6	4,782.3	15.27	314.153		
5,800.0	5,726.1	5,717.4	5,715.9	16.5	5.0	173.31	-4,023.5	648.0	4,797.9	4,782.3	15.52	309.122		
5,900.0	5,826.1	5,820.3	5,818.8	16.6	5.1	173.34	-4,024.1	645.7	4,798.1	4,782.3	15.78	304.102		
6,000.0	5,926.1	5,916.0	5,914.5	16.7	5.2	173.37	-4,024.6	643.5	4,798.4	4,782.4	16.03	299.360		
6,100.0	6,026.1	6,017.8	6,016.2	16.8	5.3	173.39	-4,025.2	641.3	4,798.7	4,782.5	16.29	294.663		
6,200.0	6,126.1	6,110.6	6,109.1	16.9	5.4	173.41	-4,025.8	639.4	4,799.1	4,782.6	16.53	290.247		
6,300.0	6,226.1	6,200.0	6,198.4	17.0	5.4	173.44	-4,026.5	637.8	4,799.7	4,783.0	16.78	286.024		
6,400.0	6,326.1	6,286.5	6,284.8	17.2	5.5	173.45	-4,027.4	636.5	4,800.6	4,783.6	17.02	281.978		
6,500.0	6,426.1	6,375.7	6,374.1	17.3	5.6	173.47	-4,028.5	635.5	4,801.7	4,784.4	17.27	278.014		
6,604.7	6,530.8	6,498.6	6,497.0	17.4	5.7	173.48	-4,030.0	634.2	4,802.8	4,785.2	17.56	273.578		
6,650.0	6,576.1	6,578.6	6,576.9	17.4	5.8	-6.52	-4,030.4	633.3	4,801.6	4,783.9	17.64	272.227		
6,700.0	6,625.8	6,626.4	6,624.7	17.4	5.8	-6.56	-4,030.5	632.9	4,796.7	4,779.1	17.67	271.497		
6,750.0	6,675.1	6,660.9	6,659.2	17.3	5.8	-6.64	-4,030.6	632.8	4,788.6	4,770.9	17.66	271.170		
6,800.0	6,723.7	6,700.0	6,698.3	17.2	5.9	-6.77	-4,030.8	632.8	4,777.1	4,759.5	17.63	270.987		
6,850.0	6,771.3	6,767.7	6,766.0	17.1	5.9	-6.95	-4,031.2	632.8	4,762.4	4,744.8	17.60	270.574		
6,900.0	6,817.8	6,822.1	6,820.4	16.9	6.0	-7.17	-4,031.2	632.9	4,744.1	4,726.5	17.54	270.478		
6,950.0	6,862.9	6,858.9	6,857.2	16.7	6.0	-7.44	-4,031.2	633.2	4,722.7	4,705.2	17.44	270.755		
7,000.0	6,906.3	6,900.0	6,898.3	16.4	6.0	-7.79	-4,031.3	633.7	4,698.3	4,680.9	17.33	271.057		
7,050.0	6,948.0	6,945.4	6,943.7	16.1	6.1	-8.21	-4,031.3	634.4	4,670.9	4,653.7	17.22	271.326		
7,100.0	6,987.6	6,996.8	6,995.2	15.9	6.1	-8.74	-4,031.3	634.9	4,640.6	4,623.5	17.09	271.473		
7,150.0	7,024.9	7,049.1	7,047.4	15.6	6.2	-9.39	-4,031.2	635.1	4,607.6	4,590.6	16.97	271.500		
7,200.0	7,059.9	7,097.9	7,096.3	15.3	6.2	-10.19	-4,030.9	635.1	4,571.9	4,555.0	16.85	271.383		
7,250.0	7,092.3	7,127.8	7,126.2	15.0	6.2	-11.13	-4,030.7	634.9	4,533.9	4,517.2	16.71	271.290		
7,300.0	7,121.9	7,154.6	7,152.9	14.7	6.3	-12.32	-4,030.6	634.7	4,493.7	4,477.1	16.59	270.815		
7,350.0	7,148.7	7,178.7	7,177.0	14.4	6.3	-13.83	-4,030.5	634.5	4,451.7	4,435.2	16.50	269.752		
7,400.0	7,172.4	7,200.2	7,198.6	14.2	6.3	-15.81	-4,030.4	634.3	4,407.9	4,391.5	16.46	267.838		
7,450.0	7,193.1	7,224.0	7,222.3	13.9	6.3	-18.52	-4,030.3	634.0	4,362.6	4,346.1	16.49	264.580		
7,500.0	7,210.5	7,243.9	7,242.3	13.8	6.3	-22.34	-4,030.2	633.8	4,316.0	4,299.4	16.63	259.542		
7,550.0	7,224.6	7,260.0	7,258.3	13.6	6.4	-28.00	-4,030.2	633.6	4,268.4	4,251.4	16.95	251.874		
7,600.0	7,235.3	7,272.1	7,270.4	13.5	6.4	-36.92	-4,030.1	633.4	4,219.9	4,202.3	17.55	240.421		
7,650.0	7,242.6	7,280.2	7,278.5	13.5	6.4	-51.77	-4,030.0	633.3	4,170.8	4,152.2	18.56	224.758		
7,700.0	7,246.4	7,284.3	7,282.6	13.5	6.4	-75.74	-4,030.0	633.2	4,121.3	4,101.7	19.64	209.876		
7,729.7	7,247.0	7,284.8	7,283.1	13.6	6.4	-93.27	-4,030.0	633.2	4,091.9	4,072.1	19.82	206.475		
7,800.0	7,247.0	7,284.3	7,282.7	13.7	6.4	-93.23	-4,030.0	633.2	4,022.2	4,002.3	19.99	201.170		
7,900.0	7,247.0	7,283.7	7,282.0	14.2	6.4	-93.16	-4,030.0	633.2	3,923.2	3,902.8	20.43	192.049		
8,000.0	7,247.0	7,283.1	7,281.4	14.8	6.4	-93.09	-4,030.0	633.2	3,824.2	3,803.1	21.06	181.592		
8,100.0	7,247.0	7,282.5	7,280.8	15.6	6.4	-93.03	-4,030.0	633.2	3,725.2	3,703.4	21.86	170.385		
8,200.0	7,247.0	7,281.8	7,280.1	16.5	6.4	-92.96	-4,030.0	633.2	3,626.3	3,603.5	22.82	158.939		
8,300.0	7,247.0	7,281.2	7,279.5	17.6	6.4	-92.90	-4,030.0	633.2	3,527.5	3,503.6	23.89	147.644		
8,400.0	7,247.0	7,280.6	7,278.9	18.8	6.4	-92.83	-4,030.0	633.2	3,428.7	3,403.7	25.07	136.763		
8,500.0	7,247.0	7,280.0	7,278.3	20.1	6.4	-92.77	-4,030.0	633.3	3,330.0	3,303.7	26.33	126.455		
8,600.0	7,247.0	7,279.4	7,277.7	21.4	6.4	-92.70	-4,030.1	633.3	3,231.4	3,203.8	27.67	116.800		
8,700.0	7,247.0	7,278.8	7,277.1	22.8	6.4	-92.64	-4,030.1	633.3	3,132.9	3,103.8	29.06	107.822		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #44-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													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	7,247.0	7,278.2	7,276.5	24.2	6.4	-92.58	-4,030.1	633.3	3,034.5	3,004.0	30.49	99.513		
8,900.0	7,247.0	7,277.6	7,275.9	25.7	6.4	-92.51	-4,030.1	633.3	2,936.1	2,904.2	31.97	91.841		
9,000.0	7,247.0	7,277.0	7,275.3	27.2	6.4	-92.45	-4,030.1	633.3	2,837.9	2,804.5	33.48	84.766		
9,100.0	7,247.0	7,276.4	7,274.7	28.7	6.4	-92.39	-4,030.1	633.3	2,739.9	2,704.8	35.02	78.244		
9,200.0	7,247.0	7,275.8	7,274.1	30.3	6.4	-92.33	-4,030.1	633.3	2,641.9	2,605.4	36.58	72.227		
9,300.0	7,247.0	7,275.2	7,273.5	31.9	6.4	-92.27	-4,030.1	633.3	2,544.2	2,506.0	38.16	66.672		
9,400.0	7,247.0	7,274.6	7,272.9	33.5	6.4	-92.20	-4,030.1	633.3	2,446.6	2,406.8	39.76	61.537		
9,500.0	7,247.0	7,274.1	7,272.4	35.1	6.4	-92.14	-4,030.1	633.3	2,349.2	2,307.8	41.37	56.783		
9,600.0	7,247.0	7,273.5	7,271.8	36.7	6.4	-92.08	-4,030.1	633.4	2,252.0	2,209.0	43.00	52.376		
9,700.0	7,247.0	7,272.9	7,271.2	38.3	6.4	-92.02	-4,030.1	633.4	2,155.1	2,110.5	44.63	48.283		
9,800.0	7,247.0	7,272.3	7,270.6	40.0	6.4	-91.96	-4,030.1	633.4	2,058.5	2,012.2	46.28	44.477		
9,900.0	7,247.0	7,271.8	7,270.1	41.6	6.4	-91.90	-4,030.1	633.4	1,962.3	1,914.3	47.94	40.932		
10,000.0	7,247.0	7,271.2	7,269.5	43.3	6.4	-91.84	-4,030.1	633.4	1,866.4	1,816.8	49.60	37.626		
10,100.0	7,247.0	7,270.6	7,269.0	45.0	6.4	-91.78	-4,030.1	633.4	1,771.0	1,719.7	51.27	34.539		
10,200.0	7,247.0	7,270.1	7,268.4	46.6	6.4	-91.73	-4,030.1	633.4	1,676.1	1,623.1	52.95	31.654		
10,300.0	7,247.0	7,269.5	7,267.8	48.3	6.4	-91.67	-4,030.1	633.4	1,581.8	1,527.2	54.63	28.954		
10,400.0	7,247.0	7,269.0	7,267.3	50.0	6.4	-91.61	-4,030.1	633.4	1,488.3	1,432.0	56.32	26.426		
10,500.0	7,247.0	7,268.4	7,266.7	51.7	6.4	-91.55	-4,030.1	633.4	1,395.7	1,337.7	58.01	24.059		
10,600.0	7,247.0	7,267.9	7,266.2	53.4	6.4	-91.49	-4,030.1	633.4	1,304.2	1,244.5	59.71	21.843		
10,700.0	7,247.0	7,267.3	7,265.6	55.1	6.4	-91.44	-4,030.1	633.4	1,214.1	1,152.7	61.41	19.770		
10,800.0	7,247.0	7,266.8	7,265.1	56.8	6.4	-91.38	-4,030.1	633.5	1,125.6	1,062.5	63.11	17.834		
10,900.0	7,247.0	7,266.3	7,264.6	58.5	6.4	-91.32	-4,030.1	633.5	1,039.2	974.3	64.82	16.032		
11,000.0	7,247.0	7,265.7	7,264.0	60.2	6.4	-91.27	-4,030.1	633.5	955.4	888.9	66.53	14.361		
11,100.0	7,247.0	7,265.2	7,263.5	61.9	6.4	-91.21	-4,030.1	633.5	875.1	806.8	68.24	12.824		
11,200.0	7,247.0	7,264.7	7,263.0	63.6	6.4	-91.16	-4,030.1	633.5	799.2	729.2	69.95	11.424		
11,300.0	7,247.0	7,264.1	7,262.4	65.4	6.4	-91.10	-4,030.1	633.5	729.1	657.5	71.67	10.173		
11,400.0	7,247.0	7,263.6	7,261.9	67.1	6.4	-91.04	-4,030.1	633.5	666.8	593.4	73.39	9.085		
11,500.0	7,247.0	7,263.1	7,261.4	68.8	6.4	-90.99	-4,030.1	633.5	614.4	539.3	75.11	8.180		
11,600.0	7,247.0	7,262.6	7,260.9	70.5	6.4	-90.94	-4,030.1	633.5	574.8	498.0	76.83	7.482		
11,700.0	7,247.0	7,262.1	7,260.4	72.2	6.4	-90.88	-4,030.1	633.5	550.8	472.2	78.55	7.012		
11,785.3	7,247.0	7,261.6	7,259.9	73.7	6.4	-90.83	-4,030.1	633.5	544.1	464.1	80.02	6.800 CC		
11,800.0	7,247.0	7,261.5	7,259.9	74.0	6.4	-90.83	-4,030.1	633.5	544.3	464.1	80.28	6.781 ES		
11,816.8	7,247.0	7,261.5	7,259.8	74.2	6.4	-90.82	-4,030.1	633.5	545.0	464.5	80.57	6.765 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #8-2-10 (Exsiting) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 93-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	5.2	5.2	0.0	0.0	127.39	-292.9	383.2	482.3					
100.0	100.0	107.5	107.5	0.2	0.2	127.31	-292.0	383.2	481.8	481.5	0.34	1,414.375		
125.4	125.4	130.4	130.4	0.2	0.2	127.27	-291.8	383.4	481.8	481.3	0.43	1,133.280	CC, ES	
200.0	200.0	197.5	197.4	0.3	0.3	127.18	-291.4	384.3	482.3	481.6	0.67	716.332		
300.0	300.0	277.0	276.9	0.5	0.5	127.04	-291.8	386.7	485.2	484.2	0.99	491.275		
400.0	400.0	367.0	366.8	0.7	0.7	126.85	-293.7	391.9	491.2	489.9	1.32	372.234		
500.0	500.0	451.1	450.5	0.8	0.9	126.68	-297.3	399.2	500.7	499.0	1.64	305.055		
600.0	600.0	537.2	535.9	1.0	1.1	119.58	-302.1	408.7	513.3	511.3	1.98	259.865		
700.0	700.0	621.8	619.6	1.2	1.4	119.34	-307.2	420.4	529.4	527.0	2.31	229.305		
800.0	799.9	705.6	701.9	1.4	1.7	119.05	-312.4	434.7	548.9	546.3	2.65	207.325		
900.0	899.7	788.9	783.4	1.6	2.0	118.82	-318.4	451.0	571.8	568.8	2.99	191.024		
1,000.0	999.4	876.1	868.3	1.8	2.4	118.69	-325.9	469.5	597.7	594.4	3.36	178.125		
1,100.0	1,098.9	968.4	958.0	2.0	2.8	118.71	-334.4	489.7	625.4	621.7	3.74	167.254		
1,200.0	1,198.3	1,066.7	1,053.4	2.2	3.2	118.88	-343.9	511.1	654.0	649.8	4.15	157.718		
1,300.0	1,297.4	1,159.4	1,143.5	2.5	3.6	119.15	-353.0	531.0	683.3	678.7	4.56	149.785		
1,400.0	1,396.3	1,251.1	1,232.5	2.8	4.1	119.44	-362.0	551.2	714.0	709.0	5.00	142.913		
1,500.0	1,494.9	1,341.4	1,320.0	3.1	4.5	119.75	-370.7	571.9	746.0	740.6	5.45	136.840		
1,600.0	1,593.3	1,433.4	1,408.9	3.4	4.9	120.05	-379.0	593.7	779.4	773.5	5.94	131.249		
1,700.0	1,691.2	1,520.6	1,493.1	3.8	5.4	120.29	-386.5	615.3	814.0	807.6	6.44	126.363		
1,800.0	1,788.9	1,610.5	1,579.7	4.2	5.8	120.55	-394.1	638.5	850.3	843.3	6.97	121.915		
1,900.0	1,886.3	1,703.0	1,668.6	4.6	6.3	121.18	-402.1	662.2	887.1	879.6	7.54	117.680		
2,000.0	1,983.7	1,805.1	1,767.0	5.0	6.8	121.80	-410.6	688.4	923.7	915.6	8.13	113.561		
2,100.0	2,081.2	1,906.7	1,865.2	5.4	7.3	122.42	-418.6	713.0	959.3	950.5	8.72	109.984		
2,200.0	2,178.6	2,006.7	1,962.2	5.8	7.8	123.07	-427.3	735.8	994.2	984.9	9.31	106.828		
2,300.0	2,276.1	2,090.1	2,043.1	6.2	8.2	123.58	-434.6	754.7	1,029.3	1,019.4	9.86	104.392		
2,400.0	2,373.5	2,199.6	2,149.3	6.6	8.7	124.18	-443.9	780.0	1,064.6	1,054.1	10.47	101.635		
2,500.0	2,470.9	2,291.9	2,238.9	7.0	9.1	124.67	-451.4	800.3	1,098.9	1,087.9	11.05	99.461		
2,600.0	2,568.4	2,398.3	2,342.5	7.4	9.6	125.20	-459.6	823.4	1,132.9	1,121.2	11.66	97.136		
2,700.0	2,665.8	2,488.0	2,429.8	7.8	10.0	125.62	-466.3	842.7	1,166.6	1,154.4	12.23	95.365		
2,800.0	2,763.2	2,577.7	2,517.2	8.3	10.4	126.04	-473.6	861.8	1,200.7	1,187.9	12.80	93.814		
2,900.0	2,860.7	2,693.4	2,630.0	8.7	10.8	126.54	-482.0	886.1	1,233.9	1,220.4	13.44	91.822		
3,000.0	2,958.1	2,778.6	2,713.2	9.1	11.2	126.91	-488.2	903.3	1,266.8	1,252.8	13.99	90.561		
3,100.0	3,055.6	2,863.0	2,795.5	9.5	11.6	127.30	-495.9	920.3	1,300.9	1,286.3	14.53	89.544		
3,200.0	3,153.0	2,939.0	2,869.5	10.0	11.9	127.65	-503.5	936.0	1,335.9	1,320.9	15.05	88.744		
3,300.0	3,250.4	3,020.2	2,948.3	10.4	12.3	127.98	-511.5	953.6	1,371.7	1,356.1	15.60	87.915		
3,400.0	3,347.9	3,107.1	3,032.5	10.8	12.7	128.26	-519.8	973.7	1,408.2	1,392.0	16.17	87.084		
3,500.0	3,445.3	3,202.4	3,124.7	11.2	13.2	128.54	-528.7	996.0	1,444.8	1,428.1	16.76	86.216		
3,600.0	3,542.7	3,327.5	3,246.1	11.7	13.7	128.92	-539.8	1,024.2	1,480.7	1,463.3	17.42	85.011		
3,700.0	3,640.2	3,449.2	3,364.8	12.1	14.2	129.27	-548.4	1,049.2	1,513.8	1,495.8	18.07	83.781		
3,800.0	3,737.6	3,523.2	3,437.1	12.5	14.6	129.49	-554.1	1,064.3	1,547.3	1,528.7	18.60	83.211		
3,815.0	3,752.2	3,540.5	3,453.9	12.6	14.6	129.54	-555.5	1,067.8	1,552.4	1,533.7	18.69	83.062		
3,900.0	3,835.2	3,645.5	3,556.5	12.9	15.1	130.03	-563.2	1,089.0	1,580.3	1,561.1	19.27	81.990		
4,000.0	3,933.1	3,746.4	3,655.2	13.3	15.5	130.44	-568.8	1,109.0	1,610.6	1,590.7	19.89	80.978		
4,100.0	4,031.4	3,824.8	3,731.9	13.6	15.8	130.78	-574.1	1,124.7	1,640.8	1,620.4	20.42	80.364		
4,200.0	4,130.0	3,934.0	3,838.7	14.0	16.2	131.12	-581.9	1,146.0	1,669.9	1,648.9	20.99	79.544		
4,300.0	4,228.9	4,030.3	3,933.1	14.3	16.6	131.41	-588.9	1,163.7	1,697.3	1,675.8	21.51	78.894		
4,400.0	4,328.0	4,118.4	4,019.4	14.6	17.0	131.63	-595.4	1,180.4	1,724.0	1,702.0	22.00	78.374		
4,500.0	4,427.3	4,207.7	4,106.7	14.8	17.4	131.80	-602.1	1,197.8	1,750.0	1,727.6	22.47	77.884		
4,600.0	4,526.8	4,342.0	4,237.9	15.0	17.9	131.83	-611.2	1,224.6	1,775.0	1,752.0	23.03	77.072		
4,700.0	4,626.5	4,632.7	4,526.2	15.2	18.6	131.84	-620.0	1,260.0	1,788.9	1,765.1	23.82	75.111		
4,800.0	4,726.3	4,834.2	4,727.5	15.4	18.8	132.00	-620.0	1,268.3	1,795.5	1,771.2	24.32	73.820		
4,900.0	4,826.2	4,942.6	4,835.9	15.6	18.9	132.09	-618.9	1,269.5	1,798.5	1,773.9	24.64	72.978		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #8-2-10 (Exsiting) - Existing - Existing												Offset Site Error: 0.0 ft	
Survey Program: 93-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,926.1	5,034.9	4,928.1	15.7	19.0	132.15	-618.4	1,269.9	1,800.3	1,775.4	24.92	72.255	
5,100.0	5,026.1	5,113.5	5,006.8	15.8	19.1	132.17	-618.6	1,270.5	1,801.8	1,776.7	25.15	71.652	
5,115.0	5,041.1	5,130.9	5,024.1	15.8	19.1	139.02	-618.8	1,270.7	1,802.1	1,776.9	25.19	71.542	
5,200.0	5,126.1	5,227.4	5,120.7	15.9	19.2	139.02	-619.3	1,271.4	1,802.8	1,777.4	25.42	70.929	
5,300.0	5,226.1	5,332.7	5,225.9	16.0	19.3	139.01	-619.5	1,271.8	1,803.2	1,777.5	25.68	70.229	
5,400.0	5,326.1	5,428.6	5,321.8	16.1	19.4	139.02	-619.8	1,271.9	1,803.5	1,777.6	25.92	69.572	
5,500.0	5,426.1	5,535.2	5,428.4	16.2	19.4	139.02	-620.3	1,272.3	1,804.1	1,777.9	26.18	68.901	
5,600.0	5,526.1	5,650.1	5,543.3	16.3	19.5	139.04	-620.5	1,271.4	1,803.7	1,777.2	26.45	68.185	
5,700.0	5,626.1	5,756.7	5,650.0	16.4	19.6	139.07	-620.4	1,270.0	1,802.8	1,776.1	26.71	67.488	
5,800.0	5,726.1	5,860.6	5,753.9	16.5	19.7	139.10	-620.1	1,268.5	1,801.7	1,774.7	26.97	66.796	
5,900.0	5,826.1	5,961.9	5,855.1	16.6	19.7	139.13	-619.7	1,267.0	1,800.4	1,773.2	27.23	66.115	
6,000.0	5,926.1	6,070.2	5,963.4	16.7	19.8	139.16	-619.1	1,265.1	1,798.8	1,771.3	27.50	65.411	
6,100.0	6,026.1	6,178.6	6,071.8	16.8	19.9	139.19	-618.0	1,263.0	1,796.8	1,769.0	27.77	64.695	
6,200.0	6,126.1	6,286.2	6,179.3	16.9	19.9	139.22	-616.6	1,260.6	1,794.3	1,766.3	28.05	63.976	
6,300.0	6,226.1	6,389.2	6,282.3	17.0	20.0	139.25	-615.0	1,258.0	1,791.5	1,763.2	28.31	63.274	
6,400.0	6,326.1	6,477.4	6,370.4	17.2	20.0	139.29	-614.0	1,255.6	1,788.9	1,760.3	28.56	62.638	
6,500.0	6,426.1	6,563.4	6,456.4	17.3	20.1	139.33	-613.8	1,253.5	1,787.1	1,758.3	28.80	62.043	
6,604.7	6,530.8	6,671.5	6,564.5	17.4	20.2	139.38	-613.5	1,251.6	1,785.7	1,756.6	29.09	61.389	
6,650.0	6,576.1	6,720.2	6,613.1	17.4	20.2	-40.73	-613.3	1,250.6	1,783.8	1,754.7	29.18	61.140	
6,700.0	6,625.8	6,764.3	6,657.3	17.4	20.3	-41.05	-613.0	1,249.8	1,779.3	1,750.1	29.16	61.009	
6,750.0	6,675.1	6,810.0	6,703.0	17.3	20.3	-41.57	-612.8	1,249.1	1,772.3	1,743.3	29.06	60.990	
6,800.0	6,723.7	6,863.4	6,756.4	17.2	20.3	-42.36	-612.4	1,248.4	1,762.7	1,733.9	28.88	61.044	
6,850.0	6,771.3	6,916.6	6,809.6	17.1	20.4	-43.40	-612.0	1,247.4	1,750.5	1,721.9	28.62	61.166	
6,900.0	6,817.8	6,969.7	6,862.6	16.9	20.4	-44.71	-611.5	1,246.3	1,735.8	1,707.5	28.31	61.323	
6,950.0	6,862.9	7,009.8	6,902.7	16.7	20.4	-46.17	-611.1	1,245.4	1,718.7	1,690.8	27.94	61.519	
7,000.0	6,906.3	7,042.0	6,934.9	16.4	20.5	-47.78	-610.8	1,244.9	1,699.8	1,672.2	27.54	61.712	
7,050.0	6,948.0	7,083.0	6,975.9	16.1	20.5	-49.78	-610.7	1,244.5	1,679.2	1,652.0	27.18	61.785	
7,100.0	6,987.6	7,115.5	7,008.4	15.9	20.5	-51.93	-610.6	1,244.2	1,656.8	1,630.0	26.84	61.737	
7,150.0	7,024.9	7,161.5	7,054.4	15.6	20.6	-54.66	-610.4	1,243.7	1,632.7	1,606.1	26.61	61.360	
7,200.0	7,059.9	7,201.8	7,094.8	15.3	20.6	-57.62	-610.0	1,243.0	1,607.1	1,580.6	26.47	60.711	
7,250.0	7,092.3	7,237.8	7,130.7	15.0	20.6	-60.81	-609.7	1,242.4	1,580.2	1,553.7	26.43	59.778	
7,300.0	7,121.9	7,270.5	7,163.4	14.7	20.7	-64.22	-609.3	1,241.7	1,552.3	1,525.8	26.50	58.582	
7,350.0	7,148.7	7,302.4	7,195.3	14.4	20.7	-67.88	-608.9	1,241.0	1,523.7	1,497.0	26.65	57.167	
7,400.0	7,172.4	7,330.3	7,223.2	14.2	20.7	-71.64	-608.5	1,240.3	1,494.6	1,467.7	26.85	55.662	
7,450.0	7,193.1	7,354.2	7,247.1	13.9	20.7	-75.40	-608.1	1,239.6	1,465.3	1,438.3	27.05	54.163	
7,500.0	7,210.5	7,373.5	7,266.3	13.8	20.7	-79.05	-607.7	1,239.1	1,436.2	1,409.0	27.23	52.750	
7,550.0	7,224.6	7,388.2	7,281.0	13.6	20.7	-82.49	-607.4	1,238.6	1,407.5	1,380.2	27.35	51.460	
7,600.0	7,235.3	7,399.0	7,291.8	13.5	20.7	-85.69	-607.2	1,238.3	1,379.6	1,352.2	27.43	50.300	
7,650.0	7,242.6	7,405.9	7,298.7	13.5	20.7	-88.59	-607.1	1,238.1	1,352.6	1,325.2	27.46	49.259	
7,700.0	7,246.4	7,409.0	7,301.8	13.5	20.7	-91.14	-607.0	1,238.0	1,326.9	1,299.5	27.47	48.312	
7,729.7	7,247.0	7,409.0	7,301.8	13.6	20.7	-92.48	-607.0	1,238.0	1,312.3	1,284.9	27.46	47.783	
7,800.0	7,247.0	7,407.3	7,300.1	13.7	20.7	-92.40	-607.0	1,238.0	1,279.9	1,252.3	27.64	46.306	
7,900.0	7,247.0	7,405.0	7,297.8	14.2	20.7	-92.28	-607.1	1,238.1	1,239.3	1,211.2	28.08	44.141	
8,000.0	7,247.0	7,402.7	7,295.5	14.8	20.7	-92.17	-607.1	1,238.2	1,205.5	1,176.8	28.71	41.995	
8,100.0	7,247.0	7,400.4	7,293.2	15.6	20.7	-92.05	-607.2	1,238.2	1,179.3	1,149.8	29.51	39.962	
8,200.0	7,247.0	7,398.1	7,291.0	16.5	20.7	-91.94	-607.2	1,238.3	1,161.2	1,130.7	30.47	38.116	
8,300.0	7,247.0	7,395.9	7,288.7	17.6	20.7	-91.83	-607.3	1,238.4	1,151.5	1,119.9	31.54	36.506	
8,362.5	7,247.0	7,394.5	7,287.3	18.4	20.7	-91.76	-607.3	1,238.4	1,149.8	1,117.5	32.28	35.619	
8,400.0	7,247.0	7,393.7	7,286.5	18.8	20.7	-91.72	-607.3	1,238.4	1,150.4	1,117.7	32.72	35.157	
8,500.0	7,247.0	7,391.4	7,284.3	20.1	20.7	-91.61	-607.4	1,238.5	1,158.0	1,124.0	33.99	34.072	
8,600.0	7,247.0	7,389.3	7,282.1	21.4	20.7	-91.50	-607.4	1,238.6	1,174.0	1,138.7	35.32	33.241	
8,700.0	7,247.0	7,387.1	7,279.9	22.8	20.7	-91.39	-607.5	1,238.6	1,198.3	1,161.5	36.71	32.642	

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone #8-2-10 (Exsiting) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 93-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	7,247.0	7,384.9	7,277.8	24.2	20.7	-91.29	-607.5	1,238.7	1,230.1	1,192.0	38.15	32.248		
8,900.0	7,247.0	7,382.8	7,275.7	25.7	20.7	-91.18	-607.5	1,238.8	1,269.1	1,229.5	39.62	32.029		
9,000.0	7,247.0	7,380.7	7,273.6	27.2	20.7	-91.07	-607.6	1,238.8	1,314.6	1,273.5	41.13	31.959 SF		
9,100.0	7,247.0	7,378.6	7,271.5	28.7	20.7	-90.97	-607.6	1,238.9	1,365.9	1,323.2	42.67	32.008		
9,200.0	7,247.0	7,376.5	7,269.4	30.3	20.7	-90.87	-607.7	1,239.0	1,422.3	1,378.1	44.23	32.155		
9,300.0	7,247.0	7,374.5	7,267.3	31.9	20.7	-90.76	-607.7	1,239.0	1,483.4	1,437.6	45.81	32.378		
9,400.0	7,247.0	7,372.5	7,265.3	33.5	20.7	-90.66	-607.7	1,239.1	1,548.5	1,501.1	47.41	32.660		
9,500.0	7,247.0	7,370.4	7,263.3	35.1	20.7	-90.56	-607.8	1,239.1	1,617.2	1,568.1	49.03	32.986		
9,600.0	7,247.0	7,368.4	7,261.3	36.7	20.7	-90.46	-607.8	1,239.2	1,689.0	1,638.3	50.65	33.344		
9,700.0	7,247.0	7,366.4	7,259.3	38.3	20.7	-90.36	-607.9	1,239.3	1,763.5	1,711.2	52.29	33.726		
9,800.0	7,247.0	7,366.0	7,258.9	40.0	20.7	-90.34	-607.9	1,239.3	1,840.5	1,786.6	53.94	34.123		
9,900.0	7,247.0	7,362.7	7,255.6	41.6	20.7	-90.18	-607.9	1,239.4	1,919.6	1,864.0	55.59	34.529		
10,000.0	7,247.0	7,360.9	7,253.8	43.3	20.7	-90.09	-608.0	1,239.4	2,000.5	1,943.3	57.26	34.940		
10,100.0	7,247.0	7,359.1	7,252.0	45.0	20.7	-90.00	-608.0	1,239.5	2,083.1	2,024.2	58.93	35.352		
10,200.0	7,247.0	7,357.4	7,250.3	46.6	20.7	-89.91	-608.0	1,239.5	2,167.2	2,106.6	60.60	35.762		
10,300.0	7,247.0	7,355.7	7,248.5	48.3	20.7	-89.83	-608.1	1,239.6	2,252.6	2,190.3	62.28	36.167		
10,400.0	7,247.0	7,354.0	7,246.9	50.0	20.7	-89.74	-608.1	1,239.6	2,339.1	2,275.2	63.97	36.567		
10,500.0	7,247.0	7,352.3	7,245.2	51.7	20.7	-89.66	-608.1	1,239.7	2,426.7	2,361.0	65.66	36.959		
10,600.0	7,247.0	7,350.7	7,243.6	53.4	20.7	-89.58	-608.2	1,239.7	2,515.2	2,447.8	67.35	37.343		
10,700.0	7,247.0	7,349.1	7,242.0	55.1	20.7	-89.50	-608.2	1,239.7	2,604.5	2,535.5	69.05	37.718		
10,800.0	7,247.0	7,347.5	7,240.4	56.8	20.7	-89.42	-608.2	1,239.8	2,694.6	2,623.8	70.75	38.085		
10,900.0	7,247.0	7,346.0	7,238.8	58.5	20.7	-89.34	-608.2	1,239.8	2,785.3	2,712.9	72.46	38.442		
11,000.0	7,247.0	7,344.4	7,237.3	60.2	20.7	-89.27	-608.3	1,239.9	2,876.7	2,802.5	74.16	38.789		
11,100.0	7,247.0	7,342.9	7,235.8	61.9	20.7	-89.19	-608.3	1,239.9	2,968.6	2,892.8	75.87	39.127		
11,200.0	7,247.0	7,341.4	7,234.3	63.6	20.7	-89.12	-608.3	1,240.0	3,061.0	2,983.5	77.58	39.455		
11,300.0	7,247.0	7,340.0	7,232.8	65.4	20.7	-89.05	-608.3	1,240.0	3,153.9	3,074.6	79.30	39.774		
11,400.0	7,247.0	7,338.5	7,231.4	67.1	20.7	-88.97	-608.4	1,240.0	3,247.2	3,166.2	81.01	40.084		
11,500.0	7,247.0	7,337.1	7,230.0	68.8	20.7	-88.90	-608.4	1,240.1	3,340.9	3,258.2	82.73	40.385		
11,600.0	7,247.0	7,335.7	7,228.6	70.5	20.7	-88.84	-608.4	1,240.1	3,435.0	3,350.5	84.45	40.677		
11,700.0	7,247.0	7,334.4	7,227.2	72.2	20.7	-88.77	-608.4	1,240.2	3,529.4	3,443.2	86.17	40.960		
11,800.0	7,247.0	7,333.0	7,225.9	74.0	20.7	-88.70	-608.5	1,240.2	3,624.0	3,536.2	87.89	41.236		
11,816.8	7,247.0	7,332.8	7,225.6	74.2	20.7	-88.69	-608.5	1,240.2	3,640.0	3,551.8	88.18	41.281		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1A-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-30.7	30.7	30.4	0.30	101.241		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-30.7	30.7	30.1	0.65	47.101 CC, ES		
300.0	300.0	299.6	299.5	0.5	0.5	-89.04	0.5	-31.5	31.5	30.5	1.00	31.414		
400.0	400.0	399.0	399.0	0.7	0.7	-86.55	2.0	-33.6	33.6	32.3	1.35	24.891		
500.0	500.0	498.4	498.3	0.8	0.9	-83.06	4.5	-37.1	37.4	35.7	1.70	21.953		
600.0	600.0	597.6	597.3	1.0	1.1	-87.18	8.0	-42.0	42.8	40.7	2.05	20.836		
700.0	700.0	696.7	696.1	1.2	1.3	-86.24	12.5	-48.3	49.7	47.3	2.41	20.616		
800.0	799.9	795.5	794.4	1.4	1.5	-86.51	17.9	-56.0	58.1	55.3	2.78	20.907		
900.0	899.7	894.0	892.3	1.6	1.8	-87.53	24.3	-65.0	67.9	64.7	3.16	21.490		
1,000.0	999.4	992.2	989.7	1.8	2.0	-88.95	31.6	-75.4	79.2	75.6	3.56	22.238		
1,100.0	1,098.9	1,090.1	1,086.5	2.0	2.3	-90.54	39.9	-87.1	92.1	88.1	3.99	23.067		
1,200.0	1,198.3	1,187.5	1,182.7	2.2	2.6	-92.16	49.1	-100.0	106.5	102.0	4.45	23.919		
1,300.0	1,297.4	1,284.5	1,278.1	2.5	3.0	-93.73	59.2	-114.3	122.5	117.6	4.95	24.758		
1,400.0	1,396.3	1,381.1	1,372.7	2.8	3.3	-95.21	70.1	-129.7	140.2	134.7	5.48	25.559		
1,500.0	1,494.9	1,477.1	1,466.5	3.1	3.7	-96.57	81.9	-146.4	159.4	153.4	6.06	26.309		
1,600.0	1,593.3	1,572.5	1,559.4	3.4	4.1	-97.82	94.6	-164.3	180.3	173.6	6.68	27.003		
1,700.0	1,691.2	1,667.3	1,651.4	3.8	4.6	-98.94	108.0	-183.3	202.8	195.5	7.34	27.639		
1,800.0	1,788.9	1,763.4	1,744.2	4.2	5.0	-100.04	122.3	-203.5	226.7	218.6	8.04	28.185		
1,900.0	1,886.3	1,860.3	1,837.8	4.6	5.5	-101.31	136.8	-223.9	250.9	242.1	8.78	28.590		
2,000.0	1,983.7	1,957.2	1,931.4	5.0	5.9	-102.37	151.3	-244.4	275.2	265.7	9.52	28.915		
2,100.0	2,081.2	2,054.1	2,024.9	5.4	6.4	-103.25	165.8	-264.9	299.5	289.3	10.27	29.179		
2,200.0	2,178.6	2,151.0	2,118.5	5.8	6.9	-104.00	180.3	-285.3	324.0	312.9	11.02	29.399		
2,300.0	2,276.1	2,247.9	2,212.1	6.2	7.3	-104.64	194.8	-305.8	348.4	336.7	11.78	29.582		
2,400.0	2,373.5	2,344.8	2,305.7	6.6	7.8	-105.20	209.3	-326.3	372.9	360.4	12.54	29.739		
2,500.0	2,470.9	2,441.7	2,399.3	7.0	8.3	-105.69	223.8	-346.7	397.5	384.2	13.31	29.872		
2,600.0	2,568.4	2,538.5	2,492.9	7.4	8.7	-106.13	238.3	-367.2	422.0	408.0	14.07	29.989		
2,700.0	2,665.8	2,635.4	2,586.5	7.8	9.2	-106.51	252.7	-387.7	446.6	431.8	14.84	30.090		
2,800.0	2,763.2	2,732.3	2,680.1	8.3	9.7	-106.86	267.2	-408.1	471.2	455.6	15.61	30.179		
2,900.0	2,860.7	2,829.2	2,773.7	8.7	10.2	-107.17	281.7	-428.6	495.8	479.4	16.39	30.258		
3,000.0	2,958.1	2,926.1	2,867.3	9.1	10.6	-107.45	296.2	-449.1	520.5	503.3	17.16	30.329		
3,100.0	3,055.6	3,023.0	2,960.8	9.5	11.1	-107.71	310.7	-469.5	545.1	527.2	17.94	30.392		
3,200.0	3,153.0	3,119.9	3,054.4	10.0	11.6	-107.94	325.2	-490.0	569.7	551.0	18.71	30.449		
3,300.0	3,250.4	3,216.8	3,148.0	10.4	12.0	-108.16	339.7	-510.5	594.4	574.9	19.49	30.501		
3,400.0	3,347.9	3,313.7	3,241.6	10.8	12.5	-108.36	354.2	-530.9	619.0	598.8	20.26	30.547		
3,500.0	3,445.3	3,410.6	3,335.2	11.2	13.0	-108.54	368.7	-551.4	643.7	622.7	21.04	30.590		
3,600.0	3,542.7	3,507.4	3,428.8	11.7	13.5	-108.71	383.2	-571.9	668.4	646.6	21.82	30.630		
3,700.0	3,640.2	3,604.3	3,522.4	12.1	13.9	-108.87	397.7	-592.3	693.1	670.5	22.60	30.666		
3,800.0	3,737.6	3,701.2	3,616.0	12.5	14.4	-109.01	412.1	-612.8	717.7	694.4	23.38	30.699		
3,815.0	3,752.2	3,715.8	3,630.0	12.6	14.5	-109.03	414.3	-615.9	721.4	697.9	23.50	30.704		
3,900.0	3,835.2	3,798.2	3,709.6	12.9	14.9	-109.30	426.6	-633.3	742.2	718.1	24.17	30.712		
4,000.0	3,933.1	3,895.3	3,803.4	13.3	15.4	-109.50	441.2	-653.8	766.2	741.2	24.93	30.738		
4,100.0	4,031.4	3,992.5	3,897.3	13.6	15.9	-109.56	455.7	-674.3	789.5	763.9	25.65	30.780		
4,200.0	4,130.0	4,089.8	3,991.3	14.0	16.3	-109.51	470.3	-694.9	812.3	786.0	26.34	30.836		
4,300.0	4,228.9	4,187.1	4,085.3	14.3	16.8	-109.35	484.8	-715.4	834.6	807.6	27.00	30.908		
4,400.0	4,328.0	4,284.5	4,179.3	14.6	17.3	-109.10	499.4	-736.0	856.4	828.7	27.63	30.996		
4,500.0	4,427.3	4,381.9	4,273.4	14.8	17.8	-108.75	513.9	-756.6	877.6	849.4	28.22	31.103		
4,600.0	4,526.8	4,479.2	4,367.4	15.0	18.2	-108.32	528.5	-777.1	898.4	869.6	28.77	31.230		
4,700.0	4,626.5	4,576.5	4,461.4	15.2	18.7	-107.81	543.0	-797.7	918.8	889.5	29.28	31.380		
4,800.0	4,726.3	4,673.6	4,555.2	15.4	19.2	-107.23	557.6	-818.2	938.8	909.1	29.75	31.554		
4,900.0	4,826.2	4,770.7	4,649.0	15.6	19.7	-106.57	572.1	-838.7	958.5	928.3	30.18	31.756		
5,000.0	4,926.1	4,867.6	4,742.6	15.7	20.2	-105.86	586.6	-859.2	977.9	947.3	30.57	31.988		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1A-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	4,964.3	4,836.0	15.8	20.6	-105.08	601.1	-879.6	997.1	966.2	30.92	32.254		
5,115.0	5,041.1	4,978.8	4,850.0	15.8	20.7	-98.11	603.2	-882.7	1,000.0	969.0	30.96	32.296		
5,200.0	5,126.1	5,060.9	4,929.3	15.9	21.1	-97.27	615.5	-900.0	1,016.3	985.1	31.21	32.561		
5,300.0	5,226.1	5,170.6	5,035.5	16.0	21.6	-96.22	631.5	-922.6	1,035.3	1,003.8	31.51	32.855		
5,400.0	5,326.1	5,283.6	5,145.4	16.1	22.1	-95.25	646.7	-944.0	1,053.1	1,021.3	31.80	33.116		
5,500.0	5,426.1	5,397.6	5,256.7	16.2	22.6	-94.39	660.8	-963.9	1,069.6	1,037.5	32.08	33.344		
5,600.0	5,526.1	5,512.5	5,369.5	16.3	23.0	-93.63	673.7	-982.2	1,084.8	1,052.4	32.35	33.537		
5,700.0	5,626.1	5,628.4	5,483.5	16.4	23.4	-92.96	685.3	-998.6	1,098.5	1,065.9	32.61	33.690		
5,800.0	5,726.1	5,745.0	5,598.7	16.5	23.7	-92.38	695.7	-1,013.3	1,110.7	1,077.9	32.86	33.800		
5,900.0	5,826.1	5,862.3	5,714.9	16.6	24.1	-91.89	704.8	-1,026.2	1,121.4	1,088.3	33.11	33.866		
6,000.0	5,926.1	5,980.2	5,832.1	16.7	24.3	-91.48	712.6	-1,037.1	1,130.5	1,097.2	33.36	33.886		
6,100.0	6,026.1	6,098.6	5,950.0	16.8	24.6	-91.14	719.0	-1,046.2	1,138.0	1,104.4	33.61	33.859		
6,200.0	6,126.1	6,217.4	6,068.5	16.9	24.8	-90.89	724.0	-1,053.2	1,143.9	1,110.0	33.86	33.787		
6,300.0	6,226.1	6,336.5	6,187.4	17.0	25.0	-90.70	727.6	-1,058.3	1,148.1	1,114.0	34.10	33.668		
6,400.0	6,326.1	6,455.9	6,306.7	17.2	25.1	-90.59	729.7	-1,061.3	1,150.6	1,116.3	34.35	33.502		
6,500.0	6,426.1	6,575.3	6,426.1	17.3	25.2	-90.56	730.4	-1,062.3	1,151.5	1,116.9	34.59	33.287		
6,604.7	6,530.8	6,680.0	6,530.8	17.4	25.3	-90.56	730.4	-1,062.3	1,151.5	1,116.6	34.83	33.056		
6,650.0	6,576.1	6,725.2	6,576.1	17.4	25.3	89.52	730.4	-1,062.3	1,151.5	1,116.6	34.89	33.005		
6,700.0	6,625.8	6,775.0	6,625.8	17.4	25.4	89.76	730.4	-1,062.3	1,151.4	1,116.6	34.87	33.025		
6,731.1	6,656.6	6,805.7	6,656.6	17.3	25.4	90.00	730.4	-1,062.3	1,151.4	1,116.6	34.81	33.080		
6,750.0	6,675.1	6,824.3	6,675.1	17.3	25.4	90.17	730.4	-1,062.3	1,151.4	1,116.7	34.76	33.121		
6,800.0	6,723.7	6,872.8	6,723.7	17.2	25.5	90.73	730.4	-1,062.3	1,151.5	1,116.9	34.59	33.289		
6,850.0	6,771.3	6,921.2	6,771.2	17.1	25.5	91.43	730.2	-1,062.3	1,151.8	1,117.5	34.34	33.540		
6,900.0	6,817.8	6,971.4	6,822.1	16.9	25.5	92.17	727.3	-1,062.3	1,152.3	1,118.3	34.01	33.881		
6,950.0	6,862.9	7,022.7	6,873.0	16.7	25.5	92.91	720.6	-1,062.3	1,153.1	1,119.4	33.62	34.301		
7,000.0	6,906.3	7,075.4	6,924.6	16.4	25.4	93.64	710.0	-1,062.3	1,154.0	1,120.8	33.16	34.800		
7,050.0	6,948.0	7,129.3	6,976.5	16.1	25.3	94.37	695.2	-1,062.3	1,155.1	1,122.5	32.65	35.375		
7,100.0	6,987.6	7,184.8	7,028.5	15.9	25.2	95.08	676.1	-1,062.3	1,156.4	1,124.3	32.10	36.023		
7,150.0	7,024.9	7,241.7	7,080.2	15.6	25.0	95.78	652.2	-1,062.3	1,157.8	1,126.3	31.52	36.738		
7,200.0	7,059.9	7,300.2	7,131.2	15.3	24.8	96.47	623.6	-1,062.3	1,159.4	1,128.5	30.91	37.514		
7,250.0	7,092.3	7,360.4	7,180.9	15.0	24.6	97.13	589.8	-1,062.3	1,161.0	1,130.8	30.28	38.340		
7,300.0	7,121.9	7,422.2	7,229.0	14.7	24.4	97.76	551.0	-1,062.3	1,162.7	1,133.1	29.66	39.198		
7,350.0	7,148.7	7,485.6	7,274.6	14.4	24.2	98.35	506.9	-1,062.3	1,164.4	1,135.4	29.06	40.066		
7,400.0	7,172.4	7,550.7	7,317.1	14.2	23.9	98.90	457.7	-1,062.3	1,166.1	1,137.6	28.50	40.916		
7,450.0	7,193.1	7,617.3	7,355.9	13.9	23.7	99.41	403.6	-1,062.3	1,167.7	1,139.7	28.00	41.707		
7,500.0	7,210.5	7,685.5	7,390.2	13.8	23.5	99.86	344.7	-1,062.3	1,169.1	1,141.6	27.57	42.407		
7,550.0	7,224.6	7,755.0	7,419.2	13.6	23.3	100.24	281.6	-1,062.3	1,170.4	1,143.2	27.24	42.971		
7,600.0	7,235.3	7,825.6	7,442.3	13.5	23.1	100.55	214.8	-1,062.3	1,171.5	1,144.5	27.03	43.345		
7,650.0	7,242.6	7,897.2	7,458.9	13.5	23.1	100.79	145.2	-1,062.3	1,172.3	1,145.4	26.94	43.520		
7,700.0	7,246.4	7,969.5	7,468.5	13.5	23.0	100.95	73.6	-1,062.3	1,172.8	1,145.8	27.00	43.443		
7,729.7	7,247.0	8,012.6	7,470.8	13.6	23.0	101.00	30.5	-1,062.3	1,173.0	1,145.9	27.09	43.297		
7,800.0	7,247.0	8,088.0	7,471.0	13.7	23.1	101.01	-44.9	-1,062.3	1,173.1	1,145.6	27.46	42.724		
7,900.0	7,247.0	8,188.0	7,471.0	14.2	23.4	101.01	-144.9	-1,062.3	1,173.1	1,144.8	28.31	41.437		
8,000.0	7,247.0	8,288.0	7,471.0	14.8	23.7	101.01	-244.9	-1,062.3	1,173.1	1,143.5	29.54	39.713		
8,100.0	7,247.0	8,388.0	7,471.0	15.6	24.2	101.01	-344.9	-1,062.3	1,173.1	1,142.0	31.10	37.716		
8,200.0	7,247.0	8,488.0	7,471.0	16.5	24.8	101.01	-444.9	-1,062.3	1,173.1	1,140.1	32.95	35.598		
8,300.0	7,247.0	8,588.0	7,471.0	17.6	25.5	101.01	-544.9	-1,062.3	1,173.1	1,138.0	35.05	33.473		
8,400.0	7,247.0	8,688.0	7,471.0	18.8	26.3	101.01	-644.9	-1,062.3	1,173.1	1,135.8	37.34	31.417		
8,500.0	7,247.0	8,788.0	7,471.0	20.1	27.2	101.01	-744.9	-1,062.3	1,173.1	1,133.3	39.80	29.476		
8,600.0	7,247.0	8,888.0	7,471.0	21.4	28.2	101.01	-844.9	-1,062.3	1,173.1	1,130.7	42.40	27.670		
8,700.0	7,247.0	8,988.0	7,471.0	22.8	29.3	101.01	-944.9	-1,062.3	1,173.1	1,128.0	45.11	26.008		
8,800.0	7,247.0	9,088.0	7,471.0	24.2	30.4	101.01	-1,044.9	-1,062.3	1,173.1	1,125.2	47.91	24.485		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1A-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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		
8,900.0	7,247.0	9,188.0	7,471.0	25.7	31.6	101.01	-1,144.9	-1,062.3	1,173.1	1,122.3	50.80	23.095		
9,000.0	7,247.0	9,288.0	7,471.0	27.2	32.8	101.01	-1,244.9	-1,062.3	1,173.1	1,119.4	53.75	21.828		
9,100.0	7,247.0	9,388.0	7,471.0	28.7	34.1	101.01	-1,344.9	-1,062.3	1,173.1	1,116.4	56.75	20.672		
9,200.0	7,247.0	9,488.0	7,471.0	30.3	35.4	101.01	-1,444.9	-1,062.3	1,173.2	1,113.3	59.80	19.616		
9,300.0	7,247.0	9,588.0	7,471.0	31.9	36.8	101.01	-1,544.9	-1,062.3	1,173.2	1,110.3	62.90	18.652		
9,400.0	7,247.0	9,688.0	7,471.0	33.5	38.2	101.01	-1,644.9	-1,062.3	1,173.2	1,107.1	66.03	17.768		
9,500.0	7,247.0	9,788.0	7,471.0	35.1	39.6	101.01	-1,744.9	-1,062.3	1,173.2	1,104.0	69.18	16.957		
9,600.0	7,247.0	9,888.0	7,471.0	36.7	41.1	101.01	-1,844.9	-1,062.3	1,173.2	1,100.8	72.37	16.211		
9,700.0	7,247.0	9,988.0	7,471.0	38.3	42.5	101.01	-1,944.9	-1,062.3	1,173.2	1,097.6	75.58	15.523		
9,800.0	7,247.0	10,088.0	7,471.0	40.0	44.0	101.01	-2,044.9	-1,062.3	1,173.2	1,094.4	78.80	14.888		
9,900.0	7,247.0	10,188.0	7,471.0	41.6	45.5	101.01	-2,144.9	-1,062.3	1,173.2	1,091.2	82.05	14.299		
10,000.0	7,247.0	10,288.0	7,471.0	43.3	47.1	101.01	-2,244.9	-1,062.3	1,173.2	1,087.9	85.31	13.752		
10,100.0	7,247.0	10,388.0	7,471.0	45.0	48.6	101.01	-2,344.9	-1,062.3	1,173.2	1,084.6	88.58	13.244		
10,200.0	7,247.0	10,488.0	7,471.0	46.6	50.2	101.01	-2,444.9	-1,062.3	1,173.2	1,081.4	91.87	12.770		
10,300.0	7,247.0	10,588.0	7,471.0	48.3	51.7	101.01	-2,544.9	-1,062.3	1,173.2	1,078.1	95.17	12.328		
10,400.0	7,247.0	10,688.0	7,471.0	50.0	53.3	101.01	-2,644.9	-1,062.3	1,173.2	1,074.8	98.48	11.914		
10,500.0	7,247.0	10,788.0	7,471.0	51.7	54.9	101.01	-2,744.9	-1,062.3	1,173.2	1,071.4	101.79	11.526		
10,600.0	7,247.0	10,888.0	7,471.0	53.4	56.5	101.01	-2,844.9	-1,062.3	1,173.2	1,068.1	105.12	11.161		
10,700.0	7,247.0	10,988.0	7,471.0	55.1	58.1	101.01	-2,944.9	-1,062.3	1,173.3	1,064.8	108.45	10.818		
10,800.0	7,247.0	11,088.0	7,471.0	56.8	59.7	101.01	-3,044.9	-1,062.3	1,173.3	1,061.5	111.79	10.495		
10,900.0	7,247.0	11,188.0	7,471.0	58.5	61.4	101.01	-3,144.9	-1,062.3	1,173.3	1,058.1	115.14	10.190		
11,000.0	7,247.0	11,288.0	7,471.0	60.2	63.0	101.01	-3,244.9	-1,062.3	1,173.3	1,054.8	118.49	9.902		
11,100.0	7,247.0	11,388.0	7,471.0	61.9	64.6	101.01	-3,344.9	-1,062.3	1,173.3	1,051.4	121.84	9.629		
11,200.0	7,247.0	11,488.0	7,471.0	63.6	66.3	101.01	-3,444.9	-1,062.3	1,173.3	1,048.1	125.21	9.371		
11,300.0	7,247.0	11,588.0	7,471.0	65.4	67.9	101.01	-3,544.9	-1,062.3	1,173.3	1,044.7	128.57	9.126		
11,400.0	7,247.0	11,688.0	7,471.0	67.1	69.6	101.01	-3,644.9	-1,062.3	1,173.3	1,041.4	131.94	8.893		
11,500.0	7,247.0	11,788.0	7,471.0	68.8	71.3	101.01	-3,744.9	-1,062.3	1,173.3	1,038.0	135.31	8.671		
11,600.0	7,247.0	11,888.0	7,471.0	70.5	72.9	101.01	-3,844.9	-1,062.3	1,173.3	1,034.6	138.69	8.460		
11,700.0	7,247.0	11,988.0	7,471.0	72.2	74.6	101.01	-3,944.9	-1,062.3	1,173.3	1,031.3	142.07	8.259		
11,800.0	7,247.0	12,088.0	7,471.0	74.0	76.3	101.01	-4,044.9	-1,062.3	1,173.3	1,027.9	145.46	8.067		
11,816.8	7,247.0	12,104.9	7,471.0	74.2	76.5	101.01	-4,061.7	-1,062.3	1,173.3	1,027.3	146.03	8.035 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1B-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.426		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	18.9	0.65	29.974		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.6	1.00	19.530 CC, ES		
400.0	400.0	399.8	399.8	0.7	0.7	-88.16	0.6	-20.2	20.2	18.8	1.35	14.935		
500.0	500.0	499.4	499.4	0.8	0.9	-83.41	2.5	-22.0	22.1	20.4	1.70	12.993		
600.0	600.0	599.0	598.9	1.0	1.0	-85.93	5.7	-24.9	25.5	23.5	2.05	12.429		
700.0	700.0	698.5	698.2	1.2	1.2	-84.13	10.1	-29.1	30.3	27.9	2.41	12.568		
800.0	799.9	797.9	797.2	1.4	1.4	-84.05	15.7	-34.4	36.3	33.6	2.78	13.082		
900.0	899.7	897.0	895.9	1.6	1.7	-84.98	22.6	-41.0	43.7	40.5	3.16	13.808		
1,000.0	999.4	996.0	994.3	1.8	1.9	-86.42	30.6	-48.6	52.3	48.7	3.57	14.646		
1,100.0	1,098.9	1,094.7	1,092.1	2.0	2.2	-88.05	39.9	-57.4	62.2	58.2	4.00	15.534		
1,200.0	1,198.3	1,193.1	1,189.5	2.2	2.5	-89.71	50.4	-67.4	73.4	69.0	4.47	16.427		
1,300.0	1,297.4	1,291.3	1,286.3	2.5	2.8	-91.29	62.1	-78.4	86.1	81.1	4.98	17.294		
1,400.0	1,396.3	1,389.1	1,382.5	2.8	3.1	-92.76	74.9	-90.6	100.1	94.6	5.52	18.117		
1,500.0	1,494.9	1,486.5	1,478.0	3.1	3.5	-94.10	88.8	-103.8	115.5	109.4	6.12	18.883		
1,600.0	1,593.3	1,583.6	1,572.9	3.4	3.9	-95.30	103.9	-118.1	132.3	125.5	6.75	19.588		
1,700.0	1,691.2	1,680.2	1,666.9	3.8	4.3	-96.38	120.0	-133.4	150.4	143.0	7.44	20.231		
1,800.0	1,788.9	1,776.4	1,760.2	4.2	4.7	-97.34	137.2	-149.8	170.0	161.8	8.17	20.815		
1,900.0	1,886.3	1,873.8	1,854.2	4.6	5.2	-98.26	155.5	-167.1	190.5	181.5	8.92	21.349		
2,000.0	1,983.7	1,971.6	1,948.7	5.0	5.6	-99.00	173.9	-184.5	211.0	201.3	9.69	21.779		
2,100.0	2,081.2	2,069.5	2,043.2	5.4	6.1	-99.60	192.2	-202.0	231.6	221.1	10.46	22.132		
2,200.0	2,178.6	2,167.3	2,137.7	5.8	6.5	-100.11	210.6	-219.4	252.2	240.9	11.25	22.425		
2,300.0	2,276.1	2,265.1	2,232.2	6.2	7.0	-100.54	229.0	-236.8	272.8	260.8	12.03	22.671		
2,400.0	2,373.5	2,363.0	2,326.7	6.6	7.5	-100.91	247.3	-254.3	293.4	280.6	12.82	22.881		
2,500.0	2,470.9	2,460.8	2,421.2	7.0	7.9	-101.23	265.7	-271.7	314.1	300.5	13.62	23.061		
2,600.0	2,568.4	2,558.6	2,515.7	7.4	8.4	-101.52	284.1	-289.1	334.7	320.3	14.42	23.217		
2,700.0	2,665.8	2,656.5	2,610.2	7.8	8.9	-101.76	302.4	-306.5	355.4	340.2	15.22	23.354		
2,800.0	2,763.2	2,754.3	2,704.7	8.3	9.4	-101.99	320.8	-324.0	376.1	360.0	16.02	23.474		
2,900.0	2,860.7	2,852.1	2,799.2	8.7	9.8	-102.18	339.2	-341.4	396.7	379.9	16.82	23.580		
3,000.0	2,958.1	2,950.0	2,893.7	9.1	10.3	-102.36	357.5	-358.8	417.4	399.8	17.63	23.675		
3,100.0	3,055.6	3,047.8	2,988.2	9.5	10.8	-102.53	375.9	-376.3	438.1	419.6	18.44	23.761		
3,200.0	3,153.0	3,145.6	3,082.7	10.0	11.2	-102.67	394.3	-393.7	458.8	439.5	19.25	23.837		
3,300.0	3,250.4	3,243.5	3,177.2	10.4	11.7	-102.81	412.6	-411.1	479.4	459.4	20.05	23.907		
3,400.0	3,347.9	3,341.3	3,271.7	10.8	12.2	-102.93	431.0	-428.5	500.1	479.3	20.86	23.970		
3,500.0	3,445.3	3,439.1	3,366.2	11.2	12.7	-103.05	449.4	-446.0	520.8	499.1	21.68	24.028		
3,600.0	3,542.7	3,537.0	3,460.7	11.7	13.2	-103.15	467.7	-463.4	541.5	519.0	22.49	24.081		
3,700.0	3,640.2	3,634.8	3,555.2	12.1	13.6	-103.25	486.1	-480.8	562.2	538.9	23.30	24.129		
3,800.0	3,737.6	3,732.6	3,649.7	12.5	14.1	-103.34	504.5	-498.3	582.9	558.8	24.11	24.174		
3,815.0	3,752.2	3,747.3	3,663.9	12.6	14.2	-103.35	507.2	-500.9	586.0	561.7	24.23	24.180		
3,900.0	3,835.2	3,830.5	3,744.2	12.9	14.6	-103.54	522.8	-515.7	603.4	578.5	24.92	24.211		
4,000.0	3,933.1	3,928.4	3,838.8	13.3	15.1	-103.60	541.2	-533.2	623.6	597.9	25.70	24.263		
4,100.0	4,031.4	4,026.4	3,933.5	13.6	15.5	-103.52	559.6	-550.6	643.3	616.9	26.44	24.330		
4,200.0	4,130.0	4,124.4	4,028.1	14.0	16.0	-103.30	578.0	-568.1	662.7	635.6	27.15	24.413		
4,300.0	4,228.9	4,225.5	4,125.8	14.3	16.5	-102.94	596.9	-586.0	681.7	653.9	27.82	24.505		
4,400.0	4,328.0	4,331.4	4,228.6	14.6	17.0	-102.54	615.5	-603.6	699.4	670.9	28.45	24.583		
4,500.0	4,427.3	4,437.9	4,332.4	14.8	17.4	-102.13	632.9	-620.1	715.7	686.6	29.03	24.653		
4,600.0	4,526.8	4,545.0	4,437.1	15.0	17.8	-101.70	648.9	-635.3	730.5	701.0	29.56	24.715		
4,700.0	4,626.5	4,652.5	4,542.7	15.2	18.2	-101.26	663.5	-649.2	744.0	713.9	30.04	24.769		
4,800.0	4,726.3	4,760.5	4,649.1	15.4	18.6	-100.81	676.8	-661.8	755.9	725.5	30.46	24.818		
4,900.0	4,826.2	4,868.9	4,756.3	15.6	18.9	-100.33	688.7	-673.1	766.4	735.6	30.83	24.860		
5,000.0	4,926.1	4,977.7	4,864.2	15.7	19.2	-99.83	699.1	-683.0	775.5	744.4	31.15	24.897		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1B-10H - Hz - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
5,100.0	5,026.1	5,086.9	4,972.6	15.8	19.5	-99.30	708.0	-691.5	783.1	751.7	31.41	24.929				
5,115.0	5,041.1	5,103.3	4,988.9	15.8	19.5	-92.37	709.3	-692.6	784.1	752.7	31.45	24.932				
5,200.0	5,126.1	5,196.4	5,081.7	15.9	19.7	-91.90	715.5	-698.6	789.3	757.7	31.65	24.942				
5,300.0	5,226.1	5,306.2	5,191.2	16.0	19.9	-91.45	721.5	-704.2	794.4	762.5	31.87	24.924				
5,400.0	5,326.1	5,416.4	5,301.2	16.1	20.1	-91.12	726.0	-708.5	798.1	766.0	32.09	24.870				
5,500.0	5,426.1	5,526.7	5,411.4	16.2	20.2	-90.91	728.9	-711.3	800.6	768.3	32.31	24.780				
5,600.0	5,526.1	5,637.2	5,521.9	16.3	20.3	-90.81	730.3	-712.6	801.8	769.3	32.52	24.652				
5,700.0	5,626.1	5,741.4	5,626.1	16.4	20.4	-90.80	730.4	-712.7	801.9	769.1	32.74	24.494				
5,800.0	5,726.1	5,841.4	5,726.1	16.5	20.5	-90.80	730.4	-712.7	801.9	768.9	32.95	24.335				
5,900.0	5,826.1	5,941.4	5,826.1	16.6	20.6	-90.80	730.4	-712.7	801.9	768.7	33.17	24.177				
6,000.0	5,926.1	6,041.4	5,926.1	16.7	20.7	-90.80	730.4	-712.7	801.9	768.5	33.39	24.019				
6,100.0	6,026.1	6,141.4	6,026.1	16.8	20.8	-90.80	730.4	-712.7	801.9	768.3	33.61	23.861				
6,200.0	6,126.1	6,241.4	6,126.1	16.9	20.8	-90.80	730.4	-712.7	801.9	768.1	33.83	23.704				
6,300.0	6,226.1	6,341.4	6,226.1	17.0	20.9	-90.80	730.4	-712.7	801.9	767.8	34.05	23.548				
6,400.0	6,326.1	6,441.4	6,326.1	17.2	21.0	-90.80	730.4	-712.7	801.9	767.6	34.28	23.392				
6,500.0	6,426.1	6,541.4	6,426.1	17.3	21.1	-90.80	730.4	-712.7	801.9	767.4	34.51	23.237				
6,604.7	6,530.8	6,646.1	6,530.8	17.4	21.2	-90.80	730.4	-712.7	801.9	767.1	34.75	23.076				
6,650.0	6,576.1	6,690.7	6,575.4	17.4	21.2	89.21	729.1	-712.7	801.9	767.1	34.78	23.057				
6,700.0	6,625.8	6,740.0	6,624.4	17.4	21.2	89.21	724.3	-712.7	801.9	767.2	34.73	23.092				
6,750.0	6,675.1	6,789.2	6,672.9	17.3	21.2	89.22	716.2	-712.7	801.9	767.3	34.59	23.185				
6,800.0	6,723.7	6,838.4	6,720.8	17.2	21.1	89.23	704.8	-712.7	801.9	767.5	34.37	23.332				
6,850.0	6,771.3	6,887.7	6,767.8	17.1	21.0	89.25	690.1	-712.7	801.9	767.8	34.07	23.534				
6,900.0	6,817.8	6,937.0	6,813.7	16.9	20.8	89.27	672.2	-712.7	801.9	768.2	33.71	23.789				
6,950.0	6,862.9	6,986.3	6,858.3	16.7	20.7	89.29	651.2	-712.7	801.9	768.6	33.28	24.096				
7,000.0	6,906.3	7,035.6	6,901.4	16.4	20.5	89.32	627.1	-712.7	801.9	769.1	32.80	24.451				
7,050.0	6,948.0	7,085.0	6,942.7	16.1	20.3	89.35	600.1	-712.7	801.9	769.6	32.27	24.851				
7,100.0	6,987.6	7,134.4	6,982.1	15.9	20.0	89.38	570.4	-712.7	801.9	770.2	31.70	25.293				
7,150.0	7,024.9	7,183.8	7,019.4	15.6	19.8	89.42	537.9	-712.7	801.9	770.8	31.12	25.770				
7,200.0	7,059.9	7,233.2	7,054.3	15.3	19.6	89.46	503.0	-712.7	801.9	771.4	30.52	26.275				
7,250.0	7,092.3	7,282.7	7,086.8	15.0	19.4	89.50	465.7	-712.7	801.9	771.9	29.92	26.798				
7,300.0	7,121.9	7,332.2	7,116.7	14.7	19.1	89.55	426.2	-712.7	801.9	772.5	29.34	27.326				
7,350.0	7,148.7	7,381.8	7,143.8	14.4	18.9	89.59	384.7	-712.7	801.9	773.1	28.80	27.845				
7,373.0	7,160.0	7,404.6	7,155.2	14.3	18.9	89.62	365.0	-712.7	801.9	773.3	28.56	28.073				
7,400.0	7,172.4	7,431.4	7,167.9	14.2	18.8	89.64	341.3	-712.7	801.9	773.6	28.30	28.336				
7,450.0	7,193.1	7,481.1	7,189.1	13.9	18.6	89.69	296.4	-712.7	801.9	774.0	27.86	28.780				
7,500.0	7,210.5	7,530.8	7,207.1	13.8	18.4	89.74	250.1	-712.7	801.9	774.4	27.50	29.158				
7,550.0	7,224.6	7,580.6	7,221.8	13.6	18.3	89.80	202.5	-712.7	801.9	774.6	27.23	29.449				
7,600.0	7,235.3	7,630.4	7,233.2	13.5	18.3	89.85	154.0	-712.7	801.9	774.8	27.06	29.637				
7,650.0	7,242.6	7,680.3	7,241.2	13.5	18.2	89.91	104.8	-712.7	801.9	774.9	26.99	29.708				
7,700.0	7,246.4	7,730.2	7,245.8	13.5	18.2	89.96	55.1	-712.7	801.9	774.8	27.04	29.657				
7,729.7	7,247.0	7,759.9	7,246.9	13.6	18.2	89.99	25.5	-712.7	801.9	774.8	27.11	29.574				
7,800.0	7,247.0	7,830.2	7,247.0	13.7	18.4	90.00	-44.8	-712.7	801.9	774.4	27.49	29.174				
7,900.0	7,247.0	7,930.2	7,247.0	14.2	18.7	90.00	-144.8	-712.7	801.9	773.6	28.35	28.288				
8,000.0	7,247.0	8,030.2	7,247.0	14.8	19.1	90.00	-244.8	-712.7	801.9	772.3	29.60	27.089				
8,100.0	7,247.0	8,130.2	7,247.0	15.6	19.7	90.00	-344.8	-712.7	801.9	770.7	31.20	25.700				
8,200.0	7,247.0	8,230.2	7,247.0	16.5	20.5	90.00	-444.8	-712.8	801.9	768.8	33.10	24.228				
8,300.0	7,247.0	8,330.2	7,247.0	17.6	21.4	90.00	-544.8	-712.8	801.9	766.7	35.24	22.755				
8,400.0	7,247.0	8,430.2	7,247.0	18.8	22.3	90.00	-644.8	-712.8	802.0	764.4	37.59	21.332				
8,500.0	7,247.0	8,530.2	7,247.0	20.1	23.4	90.00	-744.8	-712.8	802.0	761.9	40.11	19.993				
8,600.0	7,247.0	8,630.2	7,247.0	21.4	24.6	90.00	-844.8	-712.8	802.0	759.2	42.77	18.750				
8,700.0	7,247.0	8,730.2	7,247.0	22.8	25.8	90.00	-944.8	-712.8	802.0	756.4	45.55	17.608				
8,800.0	7,247.0	8,830.2	7,247.0	24.2	27.1	90.00	-1,044.8	-712.8	802.0	753.6	48.42	16.565				

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1B-10H - Hz - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,900.0	7,247.0	8,930.2	7,247.0	25.7	28.4	90.00	-1,144.8	-712.8	802.0	750.6	51.37	15.614		
9,000.0	7,247.0	9,030.2	7,247.0	27.2	29.8	90.00	-1,244.8	-712.8	802.0	747.6	54.38	14.748		
9,100.0	7,247.0	9,130.2	7,247.0	28.7	31.2	90.00	-1,344.8	-712.8	802.0	744.6	57.45	13.960		
9,200.0	7,247.0	9,230.2	7,247.0	30.3	32.6	90.00	-1,444.8	-712.8	802.0	741.5	60.57	13.241		
9,300.0	7,247.0	9,330.2	7,247.0	31.9	34.1	90.00	-1,544.8	-712.8	802.0	738.3	63.73	12.585		
9,400.0	7,247.0	9,430.2	7,247.0	33.5	35.6	90.00	-1,644.8	-712.8	802.1	735.1	66.93	11.984		
9,500.0	7,247.0	9,530.2	7,247.0	35.1	37.1	90.00	-1,744.8	-712.8	802.1	731.9	70.15	11.434		
9,600.0	7,247.0	9,630.2	7,247.0	36.7	38.7	90.00	-1,844.8	-712.8	802.1	728.7	73.40	10.927		
9,700.0	7,247.0	9,730.2	7,247.0	38.3	40.2	90.00	-1,944.8	-712.8	802.1	725.4	76.67	10.461		
9,800.0	7,247.0	9,830.2	7,247.0	40.0	41.8	90.00	-2,044.8	-712.8	802.1	722.1	79.97	10.030		
9,900.0	7,247.0	9,930.2	7,247.0	41.6	43.4	90.00	-2,144.8	-712.8	802.1	718.8	83.28	9.632		
10,000.0	7,247.0	10,030.2	7,247.0	43.3	45.0	90.00	-2,244.8	-712.8	802.1	715.5	86.60	9.262		
10,100.0	7,247.0	10,130.2	7,247.0	45.0	46.6	90.00	-2,344.8	-712.8	802.1	712.2	89.94	8.918		
10,200.0	7,247.0	10,230.2	7,247.0	46.6	48.2	90.00	-2,444.8	-712.8	802.1	708.8	93.30	8.598		
10,300.0	7,247.0	10,330.2	7,247.0	48.3	49.8	90.00	-2,544.8	-712.8	802.2	705.5	96.66	8.299		
10,400.0	7,247.0	10,430.2	7,247.0	50.0	51.5	90.00	-2,644.8	-712.8	802.2	702.1	100.03	8.019		
10,500.0	7,247.0	10,530.2	7,247.0	51.7	53.1	90.00	-2,744.8	-712.8	802.2	698.8	103.41	7.757		
10,600.0	7,247.0	10,630.2	7,247.0	53.4	54.8	90.00	-2,844.8	-712.8	802.2	695.4	106.81	7.511		
10,700.0	7,247.0	10,730.2	7,247.0	55.1	56.4	90.00	-2,944.8	-712.8	802.2	692.0	110.20	7.279		
10,800.0	7,247.0	10,830.2	7,247.0	56.8	58.1	90.00	-3,044.8	-712.8	802.2	688.6	113.61	7.061		
10,900.0	7,247.0	10,930.2	7,247.0	58.5	59.8	90.00	-3,144.8	-712.8	802.2	685.2	117.02	6.856		
11,000.0	7,247.0	11,030.2	7,247.0	60.2	61.4	90.00	-3,244.8	-712.8	802.2	681.8	120.43	6.661		
11,100.0	7,247.0	11,130.2	7,247.0	61.9	63.1	90.00	-3,344.8	-712.8	802.2	678.4	123.86	6.477		
11,200.0	7,247.0	11,230.2	7,247.0	63.6	64.8	90.00	-3,444.8	-712.8	802.2	675.0	127.28	6.303		
11,300.0	7,247.0	11,330.2	7,247.0	65.4	66.5	90.00	-3,544.8	-712.8	802.3	671.5	130.71	6.138		
11,400.0	7,247.0	11,430.2	7,247.0	67.1	68.2	90.00	-3,644.8	-712.8	802.3	668.1	134.15	5.981		
11,500.0	7,247.0	11,530.2	7,247.0	68.8	69.9	90.00	-3,744.8	-712.8	802.3	664.7	137.58	5.831		
11,600.0	7,247.0	11,630.2	7,247.0	70.5	71.6	90.00	-3,844.8	-712.9	802.3	661.3	141.03	5.689		
11,700.0	7,247.0	11,730.2	7,247.0	72.2	73.3	90.00	-3,944.8	-712.9	802.3	657.8	144.47	5.553		
11,800.0	7,247.0	11,830.2	7,247.0	74.0	75.0	90.00	-4,044.8	-712.9	802.3	654.4	147.92	5.424		
11,816.8	7,247.0	11,847.0	7,247.0	74.2	75.2	90.00	-4,061.7	-712.9	802.3	653.8	148.50	5.403 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1C-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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	-89.94	0.0	-8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-8.4	8.4	8.1	0.30	27.611		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-8.4	8.4	7.7	0.65	12.846		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-8.4	8.4	7.4	1.00	8.370		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	0.0	-8.4	8.4	7.0	1.35	6.207 CC, ES		
500.0	500.0	499.9	499.9	0.8	0.9	-84.67	0.8	-8.7	8.8	7.1	1.70	5.150		
600.0	600.0	599.8	599.8	1.0	1.0	-83.32	3.2	-9.7	10.1	8.1	2.05	4.925		
700.0	700.0	699.7	699.5	1.2	1.2	-79.02	7.2	-11.4	12.4	10.0	2.41	5.147		
800.0	799.9	799.5	799.1	1.4	1.4	-77.63	12.9	-13.7	15.5	12.7	2.78	5.589		
900.0	899.7	899.2	898.6	1.6	1.6	-77.92	20.1	-16.7	19.4	16.3	3.16	6.147		
1,000.0	999.4	998.8	997.7	1.8	1.8	-79.04	28.9	-20.3	24.1	20.6	3.57	6.761		
1,100.0	1,098.9	1,098.4	1,096.7	2.0	2.1	-80.49	39.3	-24.7	29.6	25.6	4.01	7.395		
1,200.0	1,198.3	1,197.8	1,195.3	2.2	2.3	-82.03	51.2	-29.6	35.9	31.5	4.48	8.022		
1,300.0	1,297.4	1,297.2	1,293.5	2.5	2.6	-83.52	64.8	-35.2	43.1	38.1	4.99	8.626		
1,400.0	1,396.3	1,396.4	1,391.4	2.8	2.9	-84.91	79.8	-41.5	51.1	45.5	5.55	9.193		
1,500.0	1,494.9	1,495.4	1,488.8	3.1	3.3	-86.17	96.5	-48.3	59.9	53.7	6.16	9.717		
1,600.0	1,593.3	1,594.4	1,585.7	3.4	3.6	-87.30	114.6	-55.9	69.6	62.7	6.82	10.196		
1,700.0	1,691.2	1,693.2	1,682.2	3.8	4.0	-88.32	134.3	-64.0	80.1	72.5	7.53	10.629		
1,800.0	1,788.9	1,791.8	1,778.1	4.2	4.4	-89.23	155.4	-72.8	91.4	83.1	8.30	11.018		
1,900.0	1,886.3	1,891.0	1,874.4	4.6	4.8	-90.03	177.6	-81.9	103.3	94.2	9.08	11.372		
2,000.0	1,983.7	1,990.3	1,970.7	5.0	5.3	-90.66	199.8	-91.1	115.1	105.3	9.88	11.658		
2,100.0	2,081.2	2,089.6	2,067.1	5.4	5.7	-91.18	222.0	-100.3	127.0	116.3	10.68	11.892		
2,200.0	2,178.6	2,188.8	2,163.4	5.8	6.1	-91.61	244.2	-109.5	138.9	127.4	11.49	12.088		
2,300.0	2,276.1	2,288.1	2,259.7	6.2	6.6	-91.97	266.3	-118.7	150.8	138.5	12.31	12.252		
2,400.0	2,373.5	2,387.4	2,356.1	6.6	7.0	-92.27	288.5	-127.9	162.7	149.6	13.13	12.393		
2,500.0	2,470.9	2,486.7	2,452.4	7.0	7.5	-92.54	310.7	-137.1	174.6	160.6	13.95	12.514		
2,600.0	2,568.4	2,586.0	2,548.7	7.4	7.9	-92.77	332.9	-146.3	186.5	171.7	14.78	12.619		
2,700.0	2,665.8	2,685.3	2,645.1	7.8	8.4	-92.97	355.1	-155.5	198.4	182.8	15.61	12.711		
2,800.0	2,763.2	2,784.6	2,741.4	8.3	8.8	-93.15	377.3	-164.7	210.3	193.9	16.44	12.792		
2,900.0	2,860.7	2,883.8	2,837.8	8.7	9.3	-93.32	399.5	-173.9	222.2	204.9	17.27	12.864		
3,000.0	2,958.1	2,983.1	2,934.1	9.1	9.7	-93.46	421.7	-183.0	234.1	216.0	18.11	12.928		
3,100.0	3,055.6	3,082.4	3,030.4	9.5	10.2	-93.59	443.9	-192.2	246.0	227.1	18.95	12.986		
3,200.0	3,153.0	3,181.7	3,126.8	10.0	10.6	-93.71	466.1	-201.4	258.0	238.2	19.78	13.038		
3,300.0	3,250.4	3,281.0	3,223.1	10.4	11.1	-93.82	488.3	-210.6	269.9	249.2	20.62	13.085		
3,400.0	3,347.9	3,380.3	3,319.4	10.8	11.5	-93.92	510.4	-219.8	281.8	260.3	21.46	13.128		
3,500.0	3,445.3	3,479.6	3,415.8	11.2	12.0	-94.01	532.6	-229.0	293.7	271.4	22.30	13.168		
3,600.0	3,542.7	3,578.8	3,512.1	11.7	12.4	-94.09	554.8	-238.2	305.6	282.5	23.15	13.204		
3,700.0	3,640.2	3,678.1	3,608.5	12.1	12.9	-94.17	577.0	-247.4	317.5	293.6	23.99	13.237		
3,800.0	3,737.6	3,779.8	3,707.3	12.5	13.3	-94.38	599.0	-256.5	329.1	304.3	24.83	13.257		
3,815.0	3,752.2	3,795.0	3,722.2	12.6	13.4	-94.44	602.1	-257.8	330.8	305.8	24.95	13.256		
3,900.0	3,835.2	3,881.6	3,806.7	12.9	13.7	-94.84	619.3	-264.9	339.9	314.3	25.64	13.258		
4,000.0	3,933.1	3,983.5	3,906.6	13.3	14.1	-95.27	638.0	-272.7	349.9	323.5	26.40	13.253		
4,100.0	4,031.4	4,085.6	4,007.0	13.6	14.4	-95.66	655.2	-279.8	359.0	331.9	27.11	13.242		
4,200.0	4,130.0	4,187.8	4,107.8	14.0	14.8	-96.00	670.6	-286.2	367.2	339.5	27.77	13.225		
4,300.0	4,228.9	4,290.1	4,209.0	14.3	15.1	-96.31	684.4	-291.9	374.6	346.2	28.37	13.202		
4,400.0	4,328.0	4,392.5	4,310.5	14.6	15.3	-96.59	696.6	-296.9	381.1	352.2	28.93	13.174		
4,500.0	4,427.3	4,494.9	4,412.3	14.8	15.6	-96.84	707.1	-301.3	386.7	357.3	29.43	13.140		
4,600.0	4,526.8	4,597.4	4,514.4	15.0	15.8	-97.06	715.9	-304.9	391.5	361.6	29.88	13.099		
4,700.0	4,626.5	4,700.0	4,616.6	15.2	16.0	-97.26	723.0	-307.9	395.3	365.0	30.28	13.053		
4,800.0	4,726.3	4,802.6	4,719.1	15.4	16.2	-97.44	728.5	-310.1	398.3	367.6	30.63	13.001		
4,900.0	4,826.2	4,905.2	4,821.6	15.6	16.3	-97.60	732.2	-311.7	400.3	369.4	30.93	12.942		
5,000.0	4,926.1	5,007.9	4,924.3	15.7	16.4	-97.73	734.3	-312.5	401.5	370.3	31.18	12.876		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1C-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,109.7	5,026.1	15.8	16.5	-97.84	734.7	-312.7	401.8	370.5	31.39	12.801		
5,115.0	5,041.1	5,124.7	5,041.1	15.8	16.5	-90.99	734.7	-312.7	401.8	370.4	31.42	12.789		
5,200.0	5,126.1	5,209.7	5,126.1	15.9	16.6	-90.99	734.7	-312.7	401.8	370.3	31.59	12.721		
5,300.0	5,226.1	5,309.7	5,226.1	16.0	16.7	-90.99	734.7	-312.7	401.8	370.1	31.79	12.640		
5,400.0	5,326.1	5,409.7	5,326.1	16.1	16.8	-90.99	734.7	-312.7	401.8	369.9	32.00	12.559		
5,500.0	5,426.1	5,509.7	5,426.1	16.2	16.9	-90.99	734.7	-312.7	401.8	369.6	32.20	12.479		
5,600.0	5,526.1	5,609.7	5,526.1	16.3	17.0	-90.99	734.7	-312.7	401.8	369.4	32.41	12.398		
5,700.0	5,626.1	5,709.7	5,626.1	16.4	17.1	-90.99	734.7	-312.7	401.8	369.2	32.62	12.318		
5,800.0	5,726.1	5,809.7	5,726.1	16.5	17.2	-90.99	734.7	-312.7	401.8	369.0	32.84	12.238		
5,900.0	5,826.1	5,909.7	5,826.1	16.6	17.3	-90.99	734.7	-312.7	401.8	368.8	33.05	12.158		
6,000.0	5,926.1	6,009.7	5,926.1	16.7	17.4	-90.99	734.7	-312.7	401.8	368.6	33.27	12.078		
6,100.0	6,026.1	6,109.7	6,026.1	16.8	17.5	-90.99	734.7	-312.7	401.8	368.4	33.49	11.998		
6,200.0	6,126.1	6,209.7	6,126.1	16.9	17.6	-90.99	734.7	-312.7	401.8	368.1	33.71	11.919		
6,300.0	6,226.1	6,309.7	6,226.1	17.0	17.7	-90.99	734.7	-312.7	401.8	367.9	33.94	11.840		
6,400.0	6,326.1	6,409.7	6,326.1	17.2	17.8	-90.99	734.7	-312.7	401.8	367.7	34.17	11.762		
6,500.0	6,426.1	6,509.7	6,426.1	17.3	18.0	-90.99	734.7	-312.7	401.8	367.5	34.40	11.683		
6,604.7	6,530.8	6,614.4	6,530.8	17.4	18.1	-90.99	734.7	-312.7	401.8	367.2	34.64	11.602		
6,650.0	6,576.1	6,659.7	6,576.1	17.4	18.1	89.22	734.7	-312.7	401.8	367.1	34.70	11.581		
6,700.0	6,625.8	6,709.4	6,625.8	17.4	18.2	89.91	734.7	-312.7	401.8	367.1	34.69	11.581		
6,704.4	6,630.2	6,713.9	6,630.2	17.4	18.2	90.00	734.7	-312.7	401.8	367.1	34.69	11.582		
6,750.0	6,675.1	6,758.7	6,675.1	17.3	18.2	91.08	734.7	-312.7	401.9	367.2	34.62	11.607		
6,800.0	6,723.7	6,807.3	6,723.7	17.2	18.3	92.68	734.7	-312.7	402.3	367.8	34.48	11.668		
6,850.0	6,771.3	6,855.8	6,772.2	17.1	18.3	94.66	734.5	-312.7	403.3	369.0	34.24	11.777		
6,900.0	6,817.8	6,906.3	6,822.5	16.9	18.3	96.76	731.5	-312.7	404.9	371.0	33.89	11.946		
6,950.0	6,862.9	6,958.0	6,873.8	16.7	18.3	98.83	724.7	-312.7	407.1	373.7	33.45	12.169		
7,000.0	6,906.3	7,011.0	6,925.7	16.4	18.2	100.87	714.0	-312.7	409.9	377.0	32.93	12.448		
7,050.0	6,948.0	7,065.3	6,977.9	16.1	18.1	102.87	699.0	-312.7	413.2	380.8	32.33	12.781		
7,100.0	6,987.6	7,121.2	7,030.2	15.9	17.9	104.81	679.6	-312.7	416.9	385.2	31.66	13.168		
7,150.0	7,024.9	7,178.5	7,082.3	15.6	17.7	106.67	655.4	-312.7	420.9	390.0	30.94	13.606		
7,200.0	7,059.9	7,237.5	7,133.5	15.3	17.4	108.45	626.4	-312.7	425.3	395.1	30.18	14.091		
7,250.0	7,092.3	7,298.0	7,183.5	15.0	17.1	110.14	592.2	-312.7	429.8	400.4	29.40	14.617		
7,300.0	7,121.9	7,360.2	7,231.7	14.7	16.8	111.72	552.8	-312.7	434.3	405.7	28.62	15.174		
7,350.0	7,148.7	7,424.1	7,277.4	14.4	16.4	113.18	508.2	-312.7	438.8	411.0	27.87	15.748		
7,400.0	7,172.4	7,489.6	7,319.9	14.2	16.1	114.50	458.5	-312.7	443.2	416.0	27.16	16.320		
7,450.0	7,193.1	7,556.7	7,358.6	13.9	15.7	115.68	403.7	-312.7	447.2	420.7	26.52	16.867		
7,500.0	7,210.5	7,625.2	7,392.6	13.8	15.4	116.71	344.3	-312.7	450.9	424.9	25.97	17.360		
7,550.0	7,224.6	7,695.0	7,421.3	13.6	15.1	117.56	280.7	-312.7	454.1	428.5	25.54	17.776		
7,600.0	7,235.3	7,765.9	7,443.9	13.5	14.9	118.24	213.5	-312.7	456.6	431.4	25.26	18.077		
7,650.0	7,242.6	7,837.7	7,460.0	13.5	14.8	118.74	143.6	-312.7	458.6	433.4	25.13	18.249		
7,700.0	7,246.4	7,910.1	7,469.0	13.5	14.8	119.04	71.8	-312.8	459.7	434.6	25.16	18.271		
7,729.7	7,247.0	7,953.2	7,470.9	13.6	14.9	119.13	28.7	-312.8	460.1	434.8	25.26	18.216		
7,800.0	7,247.0	8,026.7	7,471.0	13.7	15.0	119.13	-44.8	-312.8	460.1	434.5	25.63	17.951		
7,900.0	7,247.0	8,126.7	7,471.0	14.2	15.4	119.13	-144.8	-312.8	460.1	433.7	26.43	17.409		
8,000.0	7,247.0	8,226.7	7,471.0	14.8	16.0	119.13	-244.8	-312.8	460.1	432.6	27.55	16.703		
8,100.0	7,247.0	8,326.7	7,471.0	15.6	16.8	119.13	-344.8	-312.8	460.2	431.2	28.95	15.894		
8,200.0	7,247.0	8,426.7	7,471.0	16.5	17.7	119.13	-444.8	-312.8	460.2	429.6	30.60	15.039		
8,300.0	7,247.0	8,526.7	7,471.0	17.6	18.7	119.13	-544.8	-312.8	460.2	427.7	32.45	14.179		
8,400.0	7,247.0	8,626.7	7,471.0	18.8	19.8	119.13	-644.8	-312.8	460.2	425.7	34.48	13.345		
8,500.0	7,247.0	8,726.7	7,471.0	20.1	21.0	119.13	-744.8	-312.8	460.2	423.6	36.66	12.554		
8,600.0	7,247.0	8,826.7	7,471.0	21.4	22.3	119.12	-844.8	-312.8	460.2	421.3	38.95	11.815		
8,700.0	7,247.0	8,926.7	7,471.0	22.8	23.6	119.12	-944.8	-312.8	460.2	418.9	41.35	11.130		
8,800.0	7,247.0	9,026.7	7,471.0	24.2	25.0	119.12	-1,044.8	-312.8	460.3	416.4	43.83	10.501		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1C-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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		
8,900.0	7,247.0	9,126.7	7,471.0	25.7	26.4	119.12	-1,144.8	-312.9	460.3	413.9	46.38	9.923		
9,000.0	7,247.0	9,226.7	7,471.0	27.2	27.9	119.12	-1,244.8	-312.9	460.3	411.3	48.99	9.395		
9,100.0	7,247.0	9,326.7	7,471.0	28.7	29.4	119.12	-1,344.8	-312.9	460.3	408.6	51.66	8.911		
9,200.0	7,247.0	9,426.7	7,471.0	30.3	30.9	119.12	-1,444.8	-312.9	460.3	406.0	54.36	8.468		
9,300.0	7,247.0	9,526.7	7,471.0	31.9	32.5	119.12	-1,544.8	-312.9	460.3	403.2	57.10	8.061		
9,400.0	7,247.0	9,626.7	7,471.0	33.5	34.0	119.12	-1,644.8	-312.9	460.3	400.5	59.88	7.688		
9,500.0	7,247.0	9,726.7	7,471.0	35.1	35.6	119.12	-1,744.8	-312.9	460.4	397.7	62.68	7.345		
9,600.0	7,247.0	9,826.7	7,471.0	36.7	37.2	119.12	-1,844.8	-312.9	460.4	394.9	65.50	7.028		
9,700.0	7,247.0	9,926.7	7,471.0	38.3	38.9	119.11	-1,944.8	-312.9	460.4	392.0	68.35	6.735		
9,800.0	7,247.0	10,026.7	7,471.0	40.0	40.5	119.11	-2,044.8	-312.9	460.4	389.2	71.22	6.465		
9,900.0	7,247.0	10,126.7	7,471.0	41.6	42.1	119.11	-2,144.8	-312.9	460.4	386.3	74.10	6.213		
10,000.0	7,247.0	10,226.7	7,471.0	43.3	43.8	119.11	-2,244.8	-312.9	460.4	383.4	77.00	5.980		
10,100.0	7,247.0	10,326.7	7,471.0	45.0	45.4	119.11	-2,344.8	-313.0	460.4	380.5	79.91	5.762		
10,200.0	7,247.0	10,426.7	7,471.0	46.6	47.1	119.11	-2,444.8	-313.0	460.5	377.6	82.83	5.559		
10,300.0	7,247.0	10,526.7	7,471.0	48.3	48.7	119.11	-2,544.8	-313.0	460.5	374.7	85.76	5.369		
10,400.0	7,247.0	10,626.7	7,471.0	50.0	50.4	119.11	-2,644.8	-313.0	460.5	371.8	88.70	5.191		
10,500.0	7,247.0	10,726.7	7,471.0	51.7	52.1	119.11	-2,744.8	-313.0	460.5	368.8	91.65	5.024		
10,600.0	7,247.0	10,826.7	7,471.0	53.4	53.8	119.11	-2,844.8	-313.0	460.5	365.9	94.61	4.867		
10,700.0	7,247.0	10,926.7	7,471.0	55.1	55.5	119.10	-2,944.8	-313.0	460.5	362.9	97.58	4.720		
10,800.0	7,247.0	11,026.7	7,471.0	56.8	57.2	119.10	-3,044.8	-313.0	460.5	360.0	100.55	4.580		
10,900.0	7,247.0	11,126.7	7,471.0	58.5	58.9	119.10	-3,144.8	-313.0	460.6	357.0	103.53	4.449		
11,000.0	7,247.0	11,226.7	7,471.0	60.2	60.6	119.10	-3,244.8	-313.0	460.6	354.1	106.51	4.324		
11,100.0	7,247.0	11,326.7	7,471.0	61.9	62.3	119.10	-3,344.8	-313.0	460.6	351.1	109.50	4.206		
11,200.0	7,247.0	11,426.7	7,471.0	63.6	64.0	119.10	-3,444.8	-313.0	460.6	348.1	112.49	4.094		
11,300.0	7,247.0	11,526.7	7,471.0	65.4	65.7	119.10	-3,544.8	-313.1	460.6	345.1	115.49	3.988		
11,400.0	7,247.0	11,626.7	7,471.0	67.1	67.4	119.10	-3,644.8	-313.1	460.6	342.1	118.49	3.887		
11,500.0	7,247.0	11,726.7	7,471.0	68.8	69.1	119.10	-3,744.8	-313.1	460.6	339.1	121.49	3.791		
11,600.0	7,247.0	11,826.7	7,471.0	70.5	70.8	119.10	-3,844.8	-313.1	460.6	336.1	124.50	3.700		
11,700.0	7,247.0	11,926.7	7,471.0	72.2	72.5	119.09	-3,944.8	-313.1	460.7	333.2	127.51	3.613		
11,800.0	7,247.0	12,026.7	7,471.0	74.0	74.2	119.09	-4,044.8	-313.1	460.7	330.2	130.53	3.529		
11,816.8	7,247.0	12,043.6	7,471.0	74.2	74.5	119.09	-4,061.7	-313.1	460.7	329.6	131.03	3.516 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1E-10H - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2						
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	11.2	11.2	10.9	0.30	36.815			
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.5	0.65	17.128			
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	11.2	11.2	10.2	1.00	11.160			
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	11.2	11.2	9.8	1.35	8.276 CC, ES			
500.0	500.0	499.9	499.9	0.8	0.9	86.44	0.7	11.7	11.7	10.0	1.70	6.867			
600.0	600.0	599.7	599.7	1.0	1.0	74.12	2.9	13.1	13.1	11.1	2.05	6.397			
700.0	700.0	699.5	699.4	1.2	1.2	71.36	6.6	15.4	15.3	12.9	2.41	6.365			
800.0	799.9	799.3	799.0	1.4	1.4	70.65	11.7	18.7	18.2	15.4	2.77	6.564			
900.0	899.7	899.0	898.3	1.6	1.6	71.24	18.3	22.9	21.7	18.6	3.15	6.891			
1,000.0	999.4	998.6	997.5	1.8	1.8	72.55	26.3	28.1	25.9	22.4	3.56	7.290			
1,100.0	1,098.9	1,098.1	1,096.4	2.0	2.1	74.20	35.7	34.1	30.8	26.8	3.99	7.723			
1,200.0	1,198.3	1,197.6	1,195.0	2.2	2.3	75.95	46.6	41.1	36.4	32.0	4.46	8.164			
1,300.0	1,297.4	1,297.0	1,293.3	2.5	2.6	77.67	59.0	49.0	42.7	37.8	4.97	8.594			
1,400.0	1,396.3	1,396.2	1,391.2	2.8	2.9	79.29	72.7	57.9	49.8	44.2	5.53	9.002			
1,500.0	1,494.9	1,495.4	1,488.7	3.1	3.3	80.79	87.8	67.6	57.5	51.4	6.14	9.379			
1,600.0	1,593.3	1,594.4	1,585.8	3.4	3.6	82.16	104.4	78.2	66.1	59.3	6.79	9.724			
1,700.0	1,691.2	1,693.3	1,682.4	3.8	4.0	83.40	122.3	89.7	75.3	67.8	7.51	10.035			
1,800.0	1,788.9	1,792.1	1,778.4	4.2	4.4	84.51	141.6	102.1	85.3	77.1	8.27	10.313			
1,900.0	1,886.3	1,891.5	1,874.9	4.6	4.9	85.48	161.8	115.1	95.8	86.7	9.06	10.570			
2,000.0	1,983.7	1,990.9	1,971.3	5.0	5.3	86.26	182.1	128.1	106.3	96.4	9.86	10.776			
2,100.0	2,081.2	2,090.3	2,067.8	5.4	5.7	86.90	202.3	141.1	116.7	106.1	10.67	10.943			
2,200.0	2,178.6	2,189.8	2,164.3	5.8	6.2	87.43	222.6	154.1	127.3	115.8	11.49	11.080			
2,300.0	2,276.1	2,289.2	2,260.8	6.2	6.6	87.88	242.8	167.1	137.8	125.5	12.31	11.195			
2,400.0	2,373.5	2,388.7	2,357.3	6.6	7.0	88.27	263.1	180.1	148.3	135.2	13.13	11.292			
2,500.0	2,470.9	2,488.1	2,453.8	7.0	7.5	88.61	283.3	193.1	158.8	144.9	13.96	11.375			
2,600.0	2,568.4	2,587.5	2,550.3	7.4	7.9	88.90	303.5	206.1	169.4	154.6	14.79	11.447			
2,700.0	2,665.8	2,687.0	2,646.7	7.8	8.4	89.16	323.8	219.1	179.9	164.3	15.63	11.509			
2,800.0	2,763.2	2,786.4	2,743.2	8.3	8.8	89.39	344.0	232.0	190.4	174.0	16.47	11.564			
2,900.0	2,860.7	2,885.9	2,839.7	8.7	9.3	89.60	364.3	245.0	201.0	183.7	17.31	11.612			
3,000.0	2,958.1	2,985.3	2,936.2	9.1	9.7	89.78	384.5	258.0	211.5	193.4	18.15	11.655			
3,100.0	3,055.6	3,084.7	3,032.7	9.5	10.2	89.95	404.8	271.0	222.1	203.1	18.99	11.693			
3,200.0	3,153.0	3,184.2	3,129.2	10.0	10.6	90.11	425.0	284.0	232.6	212.8	19.83	11.728			
3,300.0	3,250.4	3,283.6	3,225.7	10.4	11.1	90.25	445.2	297.0	243.2	222.5	20.68	11.759			
3,400.0	3,347.9	3,383.1	3,322.2	10.8	11.5	90.37	465.5	310.0	253.7	232.2	21.52	11.787			
3,500.0	3,445.3	3,482.5	3,418.6	11.2	12.0	90.49	485.7	323.0	264.3	241.9	22.37	11.813			
3,600.0	3,542.7	3,581.9	3,515.1	11.7	12.5	90.60	506.0	336.0	274.8	251.6	23.22	11.836			
3,700.0	3,640.2	3,681.4	3,611.6	12.1	12.9	90.70	526.2	349.0	285.4	261.3	24.07	11.858			
3,800.0	3,737.6	3,780.8	3,708.1	12.5	13.4	90.80	546.5	362.0	295.9	271.0	24.92	11.878			
3,815.0	3,752.2	3,795.7	3,722.6	12.6	13.4	90.81	549.5	364.0	297.5	272.5	25.04	11.880			
3,900.0	3,835.2	3,880.3	3,804.6	12.9	13.8	90.85	566.7	375.0	306.5	280.7	25.74	11.905			
4,000.0	3,933.1	3,979.7	3,901.1	13.3	14.3	90.62	587.0	388.0	317.0	290.5	26.52	11.952			
4,100.0	4,031.4	4,079.8	3,998.2	13.6	14.7	90.10	607.3	401.0	327.5	300.3	27.25	12.018			
4,200.0	4,130.0	4,181.8	4,097.5	14.0	15.2	89.52	626.9	413.6	337.5	309.6	27.92	12.085			
4,300.0	4,228.9	4,284.0	4,197.4	14.3	15.6	88.93	645.0	425.3	346.7	318.2	28.54	12.147			
4,400.0	4,328.0	4,386.4	4,297.9	14.6	15.9	88.35	661.6	436.0	355.3	326.2	29.11	12.205			
4,500.0	4,427.3	4,489.0	4,398.9	14.8	16.3	87.76	676.8	445.7	363.1	333.5	29.62	12.259			
4,600.0	4,526.8	4,591.8	4,500.4	15.0	16.6	87.17	690.5	454.5	370.2	340.1	30.07	12.309			
4,700.0	4,626.5	4,694.7	4,602.3	15.2	16.9	86.57	702.7	462.3	376.5	346.1	30.47	12.356			
4,800.0	4,726.3	4,797.8	4,704.6	15.4	17.2	85.95	713.3	469.1	382.2	351.4	30.82	12.400			
4,900.0	4,826.2	4,901.1	4,807.3	15.6	17.4	85.31	722.4	474.9	387.1	356.0	31.11	12.441			
5,000.0	4,926.1	5,004.5	4,910.4	15.7	17.6	84.66	729.9	479.8	391.3	359.9	31.35	12.480			

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1E-10H - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)					
5,100.0	5,026.1	5,108.1	5,013.7	15.8	17.8	83.98	735.9	483.6	394.8	363.2	31.54	12.517	
5,115.0	5,041.1	5,123.6	5,029.2	15.8	17.8	90.72	736.7	484.1	395.2	363.7	31.56	12.522	
5,200.0	5,126.1	5,211.8	5,117.2	15.9	18.0	90.19	740.3	486.5	397.5	365.8	31.70	12.537	
5,300.0	5,226.1	5,315.6	5,221.0	16.0	18.1	89.78	743.2	488.3	399.2	367.3	31.88	12.523	
5,400.0	5,326.1	5,419.6	5,324.9	16.1	18.2	89.60	744.4	489.1	400.0	367.9	32.07	12.473	
5,500.0	5,426.1	5,520.7	5,426.1	16.2	18.3	89.59	744.5	489.1	400.1	367.8	32.28	12.395	
5,600.0	5,526.1	5,620.7	5,526.1	16.3	18.4	89.59	744.5	489.1	400.1	367.6	32.49	12.315	
5,700.0	5,626.1	5,720.7	5,626.1	16.4	18.5	89.59	744.5	489.1	400.1	367.4	32.70	12.235	
5,800.0	5,726.1	5,820.7	5,726.1	16.5	18.6	89.59	744.5	489.1	400.1	367.1	32.91	12.156	
5,900.0	5,826.1	5,920.7	5,826.1	16.6	18.7	89.59	744.5	489.1	400.1	366.9	33.13	12.077	
6,000.0	5,926.1	6,020.7	5,926.1	16.7	18.8	89.59	744.5	489.1	400.1	366.7	33.34	11.998	
6,100.0	6,026.1	6,120.7	6,026.1	16.8	18.9	89.59	744.5	489.1	400.1	366.5	33.56	11.919	
6,200.0	6,126.1	6,220.7	6,126.1	16.9	19.0	89.59	744.5	489.1	400.1	366.3	33.79	11.841	
6,300.0	6,226.1	6,320.7	6,226.1	17.0	19.1	89.59	744.5	489.1	400.1	366.0	34.01	11.762	
6,400.0	6,326.1	6,420.7	6,326.1	17.2	19.2	89.59	744.5	489.1	400.1	365.8	34.24	11.685	
6,500.0	6,426.1	6,520.7	6,426.1	17.3	19.3	89.59	744.5	489.1	400.1	365.6	34.47	11.607	
6,604.7	6,530.8	6,625.4	6,530.8	17.4	19.4	89.59	744.5	489.1	400.1	365.3	34.71	11.526	
6,650.0	6,576.1	6,670.7	6,576.1	17.4	19.4	-90.61	744.5	489.1	400.1	365.3	34.75	11.513	
6,700.0	6,625.8	6,720.4	6,625.8	17.4	19.5	-91.30	744.5	489.1	400.1	365.5	34.69	11.536	
6,750.0	6,675.1	6,769.7	6,675.1	17.3	19.5	-92.45	744.5	489.1	400.4	365.9	34.52	11.601	
6,800.0	6,723.7	6,818.3	6,723.7	17.2	19.6	-94.03	744.5	489.1	401.1	366.9	34.24	11.715	
6,850.0	6,771.3	6,867.0	6,772.4	17.1	19.6	-95.99	744.3	489.1	402.5	368.6	33.85	11.891	
6,900.0	6,817.8	6,918.3	6,823.6	16.9	19.6	-98.09	741.2	489.1	404.5	371.1	33.35	12.128	
6,950.0	6,862.9	6,970.8	6,875.6	16.7	19.6	-100.15	734.2	489.1	407.1	374.3	32.78	12.417	
7,000.0	6,906.3	7,024.6	6,928.3	16.4	19.5	-102.17	723.2	489.1	410.2	378.0	32.15	12.757	
7,050.0	6,948.0	7,079.9	6,981.3	16.1	19.3	-104.14	707.7	489.1	413.7	382.2	31.47	13.146	
7,100.0	6,987.6	7,136.7	7,034.4	15.9	19.2	-106.04	687.6	489.1	417.7	386.9	30.75	13.582	
7,150.0	7,024.9	7,195.0	7,087.2	15.6	19.0	-107.86	662.7	489.1	421.9	391.9	30.01	14.060	
7,200.0	7,059.9	7,255.0	7,139.1	15.3	18.7	-109.59	632.7	489.1	426.4	397.1	29.25	14.575	
7,250.0	7,092.3	7,316.6	7,189.6	15.0	18.4	-111.22	597.4	489.1	430.9	402.4	28.51	15.117	
7,300.0	7,121.9	7,379.9	7,238.1	14.7	18.1	-112.73	556.9	489.1	435.5	407.7	27.78	15.674	
7,350.0	7,148.7	7,444.8	7,283.9	14.4	17.7	-114.11	511.0	489.1	439.9	412.8	27.10	16.231	
7,400.0	7,172.4	7,511.2	7,326.4	14.2	17.4	-115.35	459.9	489.1	444.1	417.6	26.48	16.768	
7,450.0	7,193.1	7,579.2	7,364.7	13.9	17.1	-116.44	403.7	489.1	447.9	422.0	25.95	17.262	
7,500.0	7,210.5	7,648.5	7,398.1	13.8	16.8	-117.36	343.0	489.1	451.3	425.8	25.50	17.694	
7,550.0	7,224.6	7,719.0	7,426.0	13.6	16.5	-118.11	278.3	489.1	454.1	428.9	25.18	18.030	
7,600.0	7,235.3	7,790.5	7,447.5	13.5	16.3	-118.68	210.2	489.1	456.2	431.3	24.99	18.259	
7,650.0	7,242.6	7,862.7	7,462.3	13.5	16.2	-119.05	139.5	489.1	457.7	432.8	24.93	18.358	
7,700.0	7,246.4	7,935.3	7,469.9	13.5	16.2	-119.23	67.4	489.1	458.4	433.4	25.02	18.322	
7,729.7	7,247.0	7,977.3	7,471.0	13.6	16.2	-119.25	25.5	489.1	458.5	433.3	25.13	18.243	
7,800.0	7,247.0	8,047.6	7,471.0	13.7	16.4	-119.25	-44.9	489.1	458.4	432.9	25.51	17.974	
7,900.0	7,247.0	8,147.6	7,471.0	14.2	16.7	-119.25	-144.9	489.2	458.4	432.1	26.31	17.426	
8,000.0	7,247.0	8,247.6	7,471.0	14.8	17.3	-119.25	-244.9	489.2	458.4	431.0	27.43	16.713	
8,100.0	7,247.0	8,347.6	7,471.0	15.6	18.0	-119.25	-344.9	489.2	458.4	429.6	28.84	15.898	
8,200.0	7,247.0	8,447.6	7,471.0	16.5	18.8	-119.25	-444.9	489.2	458.4	427.9	30.49	15.037	
8,300.0	7,247.0	8,547.6	7,471.0	17.6	19.8	-119.25	-544.9	489.2	458.4	426.1	32.34	14.173	
8,400.0	7,247.0	8,647.6	7,471.0	18.8	20.8	-119.25	-644.9	489.2	458.4	424.0	34.38	13.336	
8,500.0	7,247.0	8,747.6	7,471.0	20.1	22.0	-119.25	-744.9	489.2	458.4	421.9	36.55	12.541	
8,600.0	7,247.0	8,847.6	7,471.0	21.4	23.2	-119.25	-844.9	489.2	458.4	419.6	38.85	11.800	
8,700.0	7,247.0	8,947.6	7,471.0	22.8	24.5	-119.25	-944.9	489.2	458.4	417.2	41.25	11.114	
8,800.0	7,247.0	9,047.6	7,471.0	24.2	25.8	-119.25	-1,044.9	489.2	458.4	414.7	43.73	10.483	
8,900.0	7,247.0	9,147.6	7,471.0	25.7	27.2	-119.25	-1,144.9	489.2	458.4	412.1	46.28	9.905	

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1E-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,247.0	9,247.6	7,471.0	27.2	28.7	-119.25	-1,244.9	489.2	458.4	409.5	48.89	9.376		
9,100.0	7,247.0	9,347.6	7,471.0	28.7	30.1	-119.25	-1,344.9	489.2	458.4	406.8	51.55	8.892		
9,200.0	7,247.0	9,447.6	7,471.0	30.3	31.6	-119.25	-1,444.9	489.2	458.4	404.1	54.25	8.449		
9,300.0	7,247.0	9,547.6	7,471.0	31.9	33.1	-119.25	-1,544.9	489.2	458.4	401.4	56.99	8.043		
9,400.0	7,247.0	9,647.6	7,471.0	33.5	34.7	-119.25	-1,644.9	489.2	458.4	398.6	59.76	7.670		
9,500.0	7,247.0	9,747.6	7,471.0	35.1	36.2	-119.26	-1,744.9	489.2	458.4	395.8	62.56	7.326		
9,600.0	7,247.0	9,847.6	7,471.0	36.7	37.8	-119.26	-1,844.9	489.2	458.4	393.0	65.39	7.010		
9,700.0	7,247.0	9,947.6	7,471.0	38.3	39.4	-119.26	-1,944.9	489.2	458.3	390.1	68.23	6.718		
9,800.0	7,247.0	10,047.6	7,471.0	40.0	41.0	-119.26	-2,044.9	489.2	458.3	387.2	71.09	6.447		
9,900.0	7,247.0	10,147.6	7,471.0	41.6	42.6	-119.26	-2,144.9	489.2	458.3	384.4	73.97	6.196		
10,000.0	7,247.0	10,247.6	7,471.0	43.3	44.3	-119.26	-2,244.9	489.2	458.3	381.5	76.87	5.963		
10,100.0	7,247.0	10,347.6	7,471.0	45.0	45.9	-119.26	-2,344.9	489.2	458.3	378.6	79.77	5.745		
10,200.0	7,247.0	10,447.6	7,471.0	46.6	47.5	-119.26	-2,444.9	489.2	458.3	375.6	82.69	5.543		
10,300.0	7,247.0	10,547.6	7,471.0	48.3	49.2	-119.26	-2,544.9	489.2	458.3	372.7	85.62	5.353		
10,400.0	7,247.0	10,647.6	7,471.0	50.0	50.9	-119.26	-2,644.9	489.2	458.3	369.8	88.56	5.175		
10,500.0	7,247.0	10,747.6	7,471.0	51.7	52.5	-119.26	-2,744.9	489.2	458.3	366.8	91.50	5.009		
10,600.0	7,247.0	10,847.6	7,471.0	53.4	54.2	-119.26	-2,844.9	489.2	458.3	363.8	94.46	4.852		
10,700.0	7,247.0	10,947.6	7,471.0	55.1	55.9	-119.26	-2,944.9	489.2	458.3	360.9	97.42	4.704		
10,800.0	7,247.0	11,047.6	7,471.0	56.8	57.6	-119.26	-3,044.9	489.2	458.3	357.9	100.39	4.565		
10,900.0	7,247.0	11,147.6	7,471.0	58.5	59.2	-119.26	-3,144.9	489.2	458.3	354.9	103.36	4.434		
11,000.0	7,247.0	11,247.6	7,471.0	60.2	60.9	-119.26	-3,244.9	489.2	458.3	351.9	106.34	4.310		
11,100.0	7,247.0	11,347.6	7,471.0	61.9	62.6	-119.26	-3,344.9	489.2	458.3	349.0	109.32	4.192		
11,200.0	7,247.0	11,447.6	7,471.0	63.6	64.3	-119.26	-3,444.9	489.2	458.3	346.0	112.31	4.081		
11,300.0	7,247.0	11,547.6	7,471.0	65.4	66.0	-119.26	-3,544.9	489.2	458.3	343.0	115.30	3.975		
11,400.0	7,247.0	11,647.6	7,471.0	67.1	67.7	-119.26	-3,644.9	489.2	458.3	340.0	118.29	3.874		
11,500.0	7,247.0	11,747.6	7,471.0	68.8	69.4	-119.26	-3,744.9	489.2	458.3	337.0	121.29	3.778		
11,600.0	7,247.0	11,847.6	7,471.0	70.5	71.1	-119.26	-3,844.9	489.2	458.3	334.0	124.29	3.687		
11,700.0	7,247.0	11,947.6	7,471.0	72.2	72.8	-119.26	-3,944.9	489.2	458.2	330.9	127.30	3.600		
11,800.0	7,247.0	12,047.6	7,471.0	74.0	74.5	-119.26	-4,044.9	489.2	458.2	327.9	130.31	3.517		
11,814.1	7,247.0	12,061.6	7,471.0	74.2	74.8	-119.26	-4,058.9	489.2	458.2	327.5	130.73	3.505		
11,816.8	7,247.0	12,061.6	7,471.0	74.2	74.8	-119.26	-4,058.9	489.2	458.2	327.5	130.77	3.504 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1F-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.30	64.426		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	18.9	0.65	29.974		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	19.6	19.6	18.6	1.00	19.530 CC, ES		
400.0	400.0	399.7	399.7	0.7	0.7	88.44	0.5	20.2	20.2	18.9	1.35	14.980		
500.0	500.0	499.4	499.4	0.8	0.9	84.22	2.2	22.2	22.3	20.6	1.70	13.128		
600.0	600.0	599.0	598.8	1.0	1.0	73.71	5.1	25.5	25.7	23.7	2.05	12.546		
700.0	700.0	698.5	698.1	1.2	1.2	72.44	9.0	30.1	30.2	27.8	2.41	12.549		
800.0	799.9	797.8	797.2	1.4	1.4	72.79	14.1	36.0	35.7	32.9	2.77	12.862		
900.0	899.7	897.0	896.0	1.6	1.7	74.08	20.2	43.1	42.1	39.0	3.15	13.353		
1,000.0	999.4	996.1	994.4	1.8	1.9	75.87	27.5	51.6	49.6	46.0	3.56	13.941		
1,100.0	1,098.9	1,094.9	1,092.4	2.0	2.2	77.86	35.9	61.3	58.1	54.1	3.99	14.574		
1,200.0	1,198.3	1,193.6	1,190.0	2.2	2.5	79.88	45.3	72.3	67.8	63.3	4.45	15.213		
1,300.0	1,297.4	1,292.0	1,287.0	2.5	2.8	81.82	55.8	84.5	78.5	73.6	4.96	15.832		
1,400.0	1,396.3	1,390.1	1,383.6	2.8	3.1	83.63	67.4	98.0	90.5	85.0	5.51	16.415		
1,500.0	1,494.9	1,488.0	1,479.5	3.1	3.5	85.30	80.0	112.6	103.6	97.5	6.11	16.953		
1,600.0	1,593.3	1,585.6	1,574.8	3.4	3.9	86.81	93.6	128.5	117.9	111.1	6.76	17.441		
1,700.0	1,691.2	1,682.8	1,669.5	3.8	4.3	88.18	108.3	145.5	133.3	125.9	7.46	17.881		
1,800.0	1,788.9	1,779.8	1,763.4	4.2	4.7	89.41	123.9	163.6	149.9	141.7	8.20	18.275		
1,900.0	1,886.3	1,876.4	1,866.6	4.6	5.2	90.39	140.5	182.9	167.7	158.7	8.98	18.675		
2,000.0	1,983.7	1,972.6	1,949.0	5.0	5.7	90.80	158.1	203.4	186.6	176.9	9.77	19.101		
2,100.0	2,081.2	2,070.1	2,042.2	5.4	6.2	90.87	176.6	224.9	206.3	195.8	10.57	19.524		
2,200.0	2,178.6	2,168.1	2,135.9	5.8	6.7	90.92	195.3	246.6	226.1	214.7	11.37	19.874		
2,300.0	2,276.1	2,266.2	2,229.7	6.2	7.2	90.96	214.0	268.4	245.8	233.6	12.19	20.168		
2,400.0	2,373.5	2,364.2	2,323.4	6.6	7.8	91.00	232.7	290.1	265.5	252.5	13.01	20.418		
2,500.0	2,470.9	2,462.2	2,417.2	7.0	8.3	91.03	251.4	311.8	285.3	271.4	13.83	20.632		
2,600.0	2,568.4	2,560.3	2,510.9	7.4	8.8	91.05	270.1	333.6	305.0	290.4	14.65	20.817		
2,700.0	2,665.8	2,658.3	2,604.7	7.8	9.3	91.08	288.7	355.3	324.8	309.3	15.48	20.978		
2,800.0	2,763.2	2,756.3	2,698.4	8.3	9.9	91.10	307.4	377.0	344.5	328.2	16.31	21.120		
2,900.0	2,860.7	2,854.4	2,792.2	8.7	10.4	91.11	326.1	398.7	364.2	347.1	17.14	21.246		
3,000.0	2,958.1	2,952.4	2,885.9	9.1	10.9	91.13	344.8	420.5	384.0	366.0	17.98	21.358		
3,100.0	3,055.6	3,050.4	2,979.7	9.5	11.5	91.14	363.5	442.2	403.7	384.9	18.81	21.458		
3,200.0	3,153.0	3,148.5	3,073.4	10.0	12.0	91.16	382.2	463.9	423.5	403.8	19.65	21.548		
3,300.0	3,250.4	3,246.5	3,167.2	10.4	12.5	91.17	400.9	485.7	443.2	422.7	20.49	21.630		
3,400.0	3,347.9	3,344.5	3,260.9	10.8	13.1	91.18	419.6	507.4	462.9	441.6	21.33	21.704		
3,500.0	3,445.3	3,442.5	3,354.7	11.2	13.6	91.19	438.3	529.1	482.7	460.5	22.17	21.772		
3,600.0	3,542.7	3,540.6	3,448.4	11.7	14.1	91.20	457.0	550.8	502.4	479.4	23.01	21.833		
3,700.0	3,640.2	3,638.6	3,542.2	12.1	14.7	91.21	475.6	572.6	522.1	498.3	23.85	21.890		
3,800.0	3,737.6	3,736.6	3,635.9	12.5	15.2	91.22	494.3	594.3	541.9	517.2	24.70	21.943		
3,815.0	3,752.2	3,751.4	3,650.0	12.6	15.3	91.22	497.1	597.6	544.8	520.0	24.82	21.950		
3,900.0	3,835.2	3,834.7	3,729.7	12.9	15.7	91.33	513.0	616.0	561.6	536.1	25.54	21.994		
4,000.0	3,933.1	3,932.7	3,823.4	13.3	16.3	91.30	531.7	637.8	581.3	555.0	26.33	22.079		
4,100.0	4,031.4	4,030.7	3,917.1	13.6	16.8	91.12	550.4	659.5	601.0	573.9	27.07	22.197		
4,200.0	4,130.0	4,128.6	4,010.7	14.0	17.4	90.80	569.1	681.2	620.6	592.9	27.77	22.349		
4,300.0	4,228.9	4,227.7	4,105.5	14.3	17.9	90.35	587.9	703.1	640.3	611.9	28.42	22.533		
4,400.0	4,328.0	4,333.6	4,207.2	14.6	18.4	89.80	607.3	725.7	659.3	630.3	29.02	22.717		
4,500.0	4,427.3	4,440.1	4,309.9	14.8	19.0	89.25	625.6	746.9	677.2	647.6	29.58	22.897		
4,600.0	4,526.8	4,547.2	4,413.8	15.0	19.4	88.68	642.6	766.7	693.9	663.8	30.07	23.076		
4,700.0	4,626.5	4,654.8	4,518.6	15.2	19.9	88.10	658.5	785.2	709.5	679.0	30.51	23.253		
4,800.0	4,726.3	4,762.9	4,624.3	15.4	20.3	87.49	673.2	802.3	723.9	693.0	30.90	23.432		
4,900.0	4,826.2	4,871.5	4,730.9	15.6	20.7	86.87	686.6	817.9	737.2	706.0	31.22	23.611		
5,000.0	4,926.1	4,980.5	4,838.4	15.7	21.1	86.23	698.8	832.0	749.4	717.9	31.50	23.793		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1F-10H - Hz - Plan #1													Offset Site Error: 0.0 ft			
Survey Program: 0-MWD															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
5,100.0	5,026.1	5,090.0	4,946.6	15.8	21.4	85.56	709.6	844.6	760.4	728.7	31.71	23.977				
5,115.0	5,041.1	5,106.5	4,962.9	15.8	21.4	92.30	711.2	846.4	761.9	730.2	31.74	24.003				
5,200.0	5,126.1	5,199.9	5,055.5	15.9	21.7	91.68	719.2	855.7	770.2	738.3	31.89	24.152				
5,300.0	5,226.1	5,310.4	5,165.3	16.0	22.0	91.05	727.4	865.3	778.7	746.6	32.07	24.284				
5,400.0	5,326.1	5,421.3	5,275.7	16.1	22.2	90.54	734.3	873.2	785.8	753.6	32.25	24.367				
5,500.0	5,426.1	5,532.6	5,386.7	16.2	22.4	90.14	739.7	879.6	791.5	759.1	32.44	24.401				
5,600.0	5,526.1	5,644.2	5,498.0	16.3	22.6	89.84	743.8	884.4	795.8	763.1	32.63	24.384				
5,700.0	5,626.1	5,756.0	5,609.7	16.4	22.7	89.65	746.5	887.5	798.6	765.7	32.84	24.317				
5,800.0	5,726.1	5,867.8	5,721.6	16.5	22.8	89.56	747.7	888.9	799.9	766.8	33.05	24.200				
5,900.0	5,826.1	5,972.3	5,826.1	16.6	22.9	89.56	747.8	889.0	800.0	766.7	33.27	24.044				
6,000.0	5,926.1	6,072.3	5,926.1	16.7	23.0	89.56	747.8	889.0	800.0	766.5	33.49	23.888				
6,100.0	6,026.1	6,172.3	6,026.1	16.8	23.0	89.56	747.8	889.0	800.0	766.3	33.71	23.732				
6,200.0	6,126.1	6,272.3	6,126.1	16.9	23.1	89.56	747.8	889.0	800.0	766.0	33.93	23.576				
6,300.0	6,226.1	6,372.3	6,226.1	17.0	23.2	89.56	747.8	889.0	800.0	765.8	34.16	23.421				
6,400.0	6,326.1	6,472.3	6,326.1	17.2	23.3	89.56	747.8	889.0	800.0	765.6	34.38	23.267				
6,500.0	6,426.1	6,572.3	6,426.1	17.3	23.4	89.56	747.8	889.0	800.0	765.4	34.61	23.113				
6,604.7	6,530.8	6,677.0	6,530.8	17.4	23.5	89.56	747.8	889.0	800.0	765.1	34.85	22.953				
6,650.0	6,576.1	6,722.7	6,576.4	17.4	23.5	-90.48	746.9	889.0	800.0	765.1	34.88	22.933				
6,700.0	6,625.8	6,773.2	6,626.7	17.4	23.5	-90.52	742.6	889.0	800.0	765.1	34.83	22.970				
6,750.0	6,675.1	6,823.7	6,676.6	17.3	23.4	-90.56	734.7	889.0	800.0	765.3	34.69	23.063				
6,800.0	6,723.7	6,874.3	6,725.9	17.2	23.3	-90.59	723.3	889.0	800.0	765.5	34.47	23.210				
6,850.0	6,771.3	6,924.9	6,774.2	17.1	23.2	-90.63	708.4	889.0	800.0	765.8	34.17	23.412				
6,900.0	6,817.8	6,975.5	6,821.5	16.9	23.1	-90.66	690.1	889.0	800.0	766.2	33.80	23.666				
6,950.0	6,862.9	7,026.2	6,867.3	16.7	22.9	-90.69	668.6	889.0	800.0	766.6	33.38	23.970				
7,000.0	6,906.3	7,076.9	6,911.5	16.4	22.8	-90.71	643.8	889.0	800.0	767.1	32.89	24.322				
7,050.0	6,948.0	7,127.6	6,953.9	16.1	22.6	-90.73	616.0	889.0	800.0	767.6	32.36	24.718				
7,100.0	6,987.6	7,178.3	6,994.2	15.9	22.4	-90.75	585.2	889.0	800.0	768.2	31.80	25.156				
7,150.0	7,024.9	7,229.1	7,032.3	15.6	22.1	-90.76	551.6	889.0	800.0	768.8	31.22	25.627				
7,200.0	7,059.9	7,279.8	7,067.9	15.3	21.9	-90.77	515.5	889.0	800.0	769.4	30.62	26.125				
7,250.0	7,092.3	7,330.6	7,100.8	15.0	21.7	-90.78	476.8	889.0	800.0	770.0	30.03	26.640				
7,300.0	7,121.9	7,381.4	7,130.9	14.7	21.5	-90.78	436.0	889.0	800.0	770.5	29.46	27.160				
7,350.0	7,148.7	7,432.2	7,158.1	14.4	21.3	-90.78	393.1	889.0	800.0	771.1	28.91	27.668				
7,400.0	7,172.4	7,482.9	7,182.1	14.2	21.1	-90.77	348.4	889.0	800.0	771.6	28.42	28.149				
7,450.0	7,193.1	7,533.7	7,203.0	13.9	20.9	-90.76	302.1	889.0	800.0	772.0	27.99	28.583				
7,500.0	7,210.5	7,584.4	7,220.5	13.8	20.8	-90.75	254.5	889.0	800.0	772.3	27.63	28.950				
7,550.0	7,224.6	7,635.2	7,234.5	13.6	20.7	-90.73	205.7	889.0	800.0	772.6	27.37	29.232				
7,600.0	7,235.3	7,685.9	7,245.1	13.5	20.6	-90.71	156.2	889.0	800.0	772.8	27.20	29.411				
7,650.0	7,242.6	7,736.6	7,252.1	13.5	20.6	-90.69	106.0	889.0	799.9	772.8	27.14	29.477				
7,700.0	7,246.4	7,787.2	7,255.6	13.5	20.6	-90.66	55.4	889.0	799.9	772.7	27.19	29.422				
7,729.7	7,247.0	7,817.2	7,256.0	13.6	20.6	-90.64	25.4	889.0	799.9	772.7	27.27	29.332				
7,800.0	7,247.0	7,887.6	7,256.0	13.7	20.7	-90.64	-44.9	889.0	799.9	772.3	27.63	28.955				
7,900.0	7,247.0	7,987.6	7,256.0	14.2	20.9	-90.64	-144.9	889.0	799.9	771.4	28.49	28.080				
8,000.0	7,247.0	8,087.6	7,256.0	14.8	21.3	-90.64	-244.9	889.0	799.9	770.2	29.74	26.898				
8,100.0	7,247.0	8,187.6	7,256.0	15.6	21.9	-90.64	-344.9	889.0	799.9	768.6	31.33	25.529				
8,200.0	7,247.0	8,287.6	7,256.0	16.5	22.5	-90.64	-444.9	889.0	799.9	766.7	33.22	24.076				
8,300.0	7,247.0	8,387.6	7,256.0	17.6	23.3	-90.64	-544.9	889.0	799.9	764.5	35.36	22.620				
8,400.0	7,247.0	8,487.6	7,256.0	18.8	24.2	-90.64	-644.9	889.0	799.9	762.2	37.71	21.213				
8,500.0	7,247.0	8,587.6	7,256.0	20.1	25.2	-90.64	-744.9	889.0	799.9	759.6	40.22	19.887				
8,600.0	7,247.0	8,687.6	7,256.0	21.4	26.3	-90.64	-844.9	889.0	799.9	757.0	42.87	18.656				
8,700.0	7,247.0	8,787.6	7,256.0	22.8	27.4	-90.64	-944.9	889.0	799.8	754.2	45.64	17.524				
8,800.0	7,247.0	8,887.6	7,256.0	24.2	28.6	-90.64	-1,044.9	889.0	799.8	751.3	48.51	16.489				
8,900.0	7,247.0	8,987.6	7,256.0	25.7	29.9	-90.64	-1,144.9	889.0	799.8	748.4	51.45	15.545				

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1F-10H - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-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)			
9,000.0	7,247.0	9,087.6	7,256.0	27.2	31.2	-90.64	-1,244.9	889.0	799.8	745.4	54.46	14.685	
9,100.0	7,247.0	9,187.6	7,256.0	28.7	32.5	-90.64	-1,344.9	889.0	799.8	742.3	57.53	13.902	
9,200.0	7,247.0	9,287.6	7,256.0	30.3	33.9	-90.64	-1,444.9	889.0	799.8	739.2	60.65	13.188	
9,300.0	7,247.0	9,387.6	7,256.0	31.9	35.3	-90.64	-1,544.9	889.0	799.8	736.0	63.80	12.535	
9,400.0	7,247.0	9,487.6	7,256.0	33.5	36.8	-90.64	-1,644.9	889.0	799.8	732.8	66.99	11.938	
9,500.0	7,247.0	9,587.6	7,256.0	35.1	38.3	-90.64	-1,744.9	889.0	799.8	729.6	70.22	11.390	
9,600.0	7,247.0	9,687.6	7,256.0	36.7	39.8	-90.64	-1,844.9	889.0	799.8	726.3	73.46	10.887	
9,700.0	7,247.0	9,787.6	7,256.0	38.3	41.3	-90.64	-1,944.9	889.0	799.8	723.0	76.73	10.422	
9,800.0	7,247.0	9,887.6	7,256.0	40.0	42.8	-90.64	-2,044.9	889.0	799.7	719.7	80.02	9.994	
9,900.0	7,247.0	9,987.6	7,256.0	41.6	44.4	-90.64	-2,144.9	889.0	799.7	716.4	83.33	9.597	
10,000.0	7,247.0	10,087.6	7,256.0	43.3	45.9	-90.64	-2,244.9	889.0	799.7	713.1	86.66	9.229	
10,100.0	7,247.0	10,187.6	7,256.0	45.0	47.5	-90.64	-2,344.9	889.0	799.7	709.7	89.99	8.886	
10,200.0	7,247.0	10,287.6	7,256.0	46.6	49.1	-90.64	-2,444.9	889.0	799.7	706.4	93.35	8.567	
10,300.0	7,247.0	10,387.6	7,256.0	48.3	50.7	-90.64	-2,544.9	889.0	799.7	703.0	96.71	8.269	
10,400.0	7,247.0	10,487.6	7,256.0	50.0	52.3	-90.64	-2,644.9	889.0	799.7	699.6	100.08	7.991	
10,500.0	7,247.0	10,587.6	7,256.0	51.7	53.9	-90.64	-2,744.9	889.0	799.7	696.2	103.46	7.729	
10,600.0	7,247.0	10,687.6	7,256.0	53.4	55.6	-90.64	-2,844.9	889.0	799.7	692.8	106.85	7.484	
10,700.0	7,247.0	10,787.6	7,256.0	55.1	57.2	-90.64	-2,944.9	889.0	799.7	689.4	110.25	7.254	
10,800.0	7,247.0	10,887.6	7,256.0	56.8	58.8	-90.64	-3,044.9	889.0	799.7	686.0	113.65	7.036	
10,900.0	7,247.0	10,987.6	7,256.0	58.5	60.5	-90.64	-3,144.9	889.0	799.6	682.6	117.06	6.831	
11,000.0	7,247.0	11,087.6	7,256.0	60.2	62.2	-90.64	-3,244.9	889.0	799.6	679.2	120.47	6.638	
11,100.0	7,247.0	11,187.6	7,256.0	61.9	63.8	-90.64	-3,344.9	889.0	799.6	675.7	123.89	6.454	
11,200.0	7,247.0	11,287.6	7,256.0	63.6	65.5	-90.64	-3,444.9	889.0	799.6	672.3	127.32	6.281	
11,300.0	7,247.0	11,387.6	7,256.0	65.4	67.1	-90.64	-3,544.9	889.0	799.6	668.9	130.75	6.116	
11,400.0	7,247.0	11,487.6	7,256.0	67.1	68.8	-90.64	-3,644.9	889.0	799.6	665.4	134.18	5.959	
11,500.0	7,247.0	11,587.6	7,256.0	68.8	70.5	-90.64	-3,744.9	889.0	799.6	662.0	137.62	5.810	
11,600.0	7,247.0	11,687.6	7,256.0	70.5	72.2	-90.64	-3,844.9	889.0	799.6	658.5	141.06	5.668	
11,700.0	7,247.0	11,787.6	7,256.0	72.2	73.9	-90.64	-3,944.9	889.0	799.6	655.1	144.50	5.533	
11,800.0	7,247.0	11,887.6	7,256.0	74.0	75.5	-90.64	-4,044.9	889.0	799.6	651.6	147.95	5.404	
11,813.2	7,247.0	11,900.7	7,256.0	74.2	75.8	-90.64	-4,058.0	889.0	799.6	651.2	148.40	5.388	
11,816.8	7,247.0	11,900.7	7,256.0	74.2	75.8	-90.64	-4,058.0	889.0	799.6	651.1	148.47	5.386 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1G-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	30.7	30.7	30.4	0.30	101.241		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	30.7	30.7	30.1	0.65	47.101 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	89.24	0.4	31.5	31.5	30.5	1.00	31.457		
400.0	400.0	399.0	399.0	0.7	0.7	87.03	1.8	33.7	33.8	32.4	1.35	25.017		
500.0	500.0	498.4	498.2	0.8	0.9	83.95	4.0	37.4	37.7	36.0	1.70	22.167		
600.0	600.0	597.6	597.2	1.0	1.1	74.79	7.1	42.6	43.0	41.0	2.05	20.961		
700.0	700.0	696.6	696.0	1.2	1.3	74.19	11.0	49.2	49.5	47.1	2.41	20.571		
800.0	799.9	795.5	794.4	1.4	1.5	74.74	15.9	57.3	57.2	54.4	2.77	20.624		
900.0	899.7	894.1	892.4	1.6	1.8	76.01	21.6	66.8	66.0	62.8	3.15	20.932		
1,000.0	999.4	992.5	989.9	1.8	2.0	77.68	28.1	77.7	75.9	72.4	3.55	21.387		
1,100.0	1,098.9	1,090.5	1,087.0	2.0	2.3	79.53	35.5	90.0	87.2	83.2	3.98	21.913		
1,200.0	1,198.3	1,188.3	1,183.4	2.2	2.6	81.43	43.7	103.7	99.7	95.3	4.44	22.461		
1,300.0	1,297.4	1,285.7	1,279.2	2.5	3.0	83.29	52.7	118.7	113.6	108.6	4.94	22.997		
1,400.0	1,396.3	1,382.7	1,374.4	2.8	3.3	85.06	62.5	135.1	128.8	123.3	5.48	23.503		
1,500.0	1,494.9	1,479.4	1,468.8	3.1	3.7	86.71	73.1	152.8	145.4	139.3	6.07	23.966		
1,600.0	1,593.3	1,575.5	1,562.4	3.4	4.1	88.24	84.4	171.7	163.4	156.7	6.70	24.384		
1,700.0	1,691.2	1,671.2	1,655.1	3.8	4.6	89.63	96.5	191.9	182.7	175.4	7.38	24.757		
1,800.0	1,788.9	1,766.5	1,747.0	4.2	5.0	90.90	109.3	213.3	203.5	195.4	8.11	25.087		
1,900.0	1,886.3	1,861.2	1,838.0	4.6	5.5	92.05	122.9	235.9	225.6	216.8	8.87	25.433		
2,000.0	1,983.7	1,957.3	1,929.9	5.0	6.0	92.81	137.2	259.9	248.8	239.2	9.64	25.799		
2,100.0	2,081.2	2,054.5	2,022.9	5.4	6.6	93.43	151.8	284.3	272.1	261.7	10.43	26.091		
2,200.0	2,178.6	2,151.7	2,115.9	5.8	7.1	93.94	166.4	308.7	295.4	284.2	11.22	26.326		
2,300.0	2,276.1	2,248.9	2,208.8	6.2	7.6	94.39	181.0	333.0	318.8	306.8	12.02	26.519		
2,400.0	2,373.5	2,346.1	2,301.8	6.6	8.1	94.77	195.6	357.4	342.2	329.3	12.83	26.679		
2,500.0	2,470.9	2,443.3	2,394.8	7.0	8.7	95.10	210.2	381.8	365.5	351.9	13.63	26.813		
2,600.0	2,568.4	2,540.5	2,487.7	7.4	9.2	95.40	224.8	406.2	388.9	374.5	14.44	26.927		
2,700.0	2,665.8	2,637.7	2,580.7	7.8	9.7	95.66	239.5	430.6	412.3	397.1	15.26	27.024		
2,800.0	2,763.2	2,734.9	2,673.6	8.3	10.2	95.89	254.1	454.9	435.7	419.7	16.07	27.108		
2,900.0	2,860.7	2,832.2	2,766.6	8.7	10.8	96.10	268.7	479.3	459.2	442.3	16.89	27.181		
3,000.0	2,958.1	2,929.4	2,859.6	9.1	11.3	96.29	283.3	503.7	482.6	464.9	17.71	27.244		
3,100.0	3,055.6	3,026.6	2,952.5	9.5	11.8	96.46	297.9	528.1	506.0	487.5	18.53	27.301		
3,200.0	3,153.0	3,123.8	3,045.5	10.0	12.4	96.61	312.5	552.5	529.4	510.1	19.36	27.350		
3,300.0	3,250.4	3,221.0	3,138.4	10.4	12.9	96.75	327.1	576.9	552.8	532.7	20.18	27.395		
3,400.0	3,347.9	3,318.2	3,231.4	10.8	13.4	96.89	341.7	601.2	576.3	555.3	21.01	27.434		
3,500.0	3,445.3	3,415.4	3,324.4	11.2	14.0	97.01	356.3	625.6	599.7	577.9	21.83	27.470		
3,600.0	3,542.7	3,512.6	3,417.3	11.7	14.5	97.12	370.9	650.0	623.2	600.5	22.66	27.502		
3,700.0	3,640.2	3,609.8	3,510.3	12.1	15.1	97.22	385.5	674.4	646.6	623.1	23.49	27.531		
3,800.0	3,737.6	3,707.0	3,603.2	12.5	15.6	97.32	400.1	698.8	670.0	645.7	24.31	27.558		
3,815.0	3,752.2	3,721.6	3,617.2	12.6	15.7	97.33	402.3	702.4	673.5	649.1	24.44	27.562		
3,900.0	3,835.2	3,804.3	3,696.2	12.9	16.1	97.56	414.7	723.2	693.4	668.2	25.15	27.573		
4,000.0	3,933.1	3,901.5	3,789.2	13.3	16.7	97.69	429.3	747.5	716.5	690.6	25.94	27.619		
4,100.0	4,031.4	3,998.8	3,882.3	13.6	17.2	97.68	443.9	772.0	739.5	712.8	26.70	27.698		
4,200.0	4,130.0	4,096.1	3,975.3	14.0	17.7	97.56	458.5	796.4	762.2	734.8	27.41	27.809		
4,300.0	4,228.9	4,193.3	4,068.3	14.3	18.3	97.32	473.2	820.7	784.7	756.6	28.07	27.950		
4,400.0	4,328.0	4,290.5	4,161.2	14.6	18.8	96.99	487.7	845.1	807.1	778.4	28.70	28.124		
4,500.0	4,427.3	4,387.6	4,254.0	14.8	19.3	96.56	502.3	869.5	829.3	800.1	29.27	28.330		
4,600.0	4,526.8	4,484.5	4,346.7	15.0	19.9	96.05	516.9	893.8	851.5	821.7	29.80	28.571		
4,700.0	4,626.5	4,581.3	4,439.3	15.2	20.4	95.46	531.4	918.0	873.7	843.4	30.29	28.848		
4,800.0	4,726.3	4,677.8	4,531.6	15.4	20.9	94.80	545.9	942.3	895.9	865.1	30.72	29.163		
4,900.0	4,826.2	4,774.2	4,623.8	15.6	21.5	94.08	560.4	966.4	918.1	887.0	31.10	29.518		
5,000.0	4,926.1	4,870.3	4,715.7	15.7	22.0	93.30	574.9	990.5	940.5	909.1	31.44	29.917		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1G-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	4,966.1	4,807.3	15.8	22.5	92.46	589.2	1,014.6	963.1	931.4	31.72	30.362		
5,115.0	5,041.1	4,980.5	4,821.0	15.8	22.6	99.19	591.4	1,018.2	966.5	934.8	31.76	30.430		
5,200.0	5,126.1	5,061.7	4,898.8	15.9	23.1	98.27	603.6	1,038.6	986.0	954.1	31.94	30.872		
5,300.0	5,226.1	5,157.4	4,990.2	16.0	23.6	97.24	618.0	1,062.5	1,009.2	977.1	32.14	31.400		
5,400.0	5,326.1	5,261.4	5,089.8	16.1	24.2	96.18	633.5	1,088.4	1,032.6	1,000.2	32.34	31.928		
5,500.0	5,426.1	5,374.3	5,198.4	16.2	24.7	95.14	649.3	1,114.9	1,054.8	1,022.3	32.54	32.415		
5,600.0	5,526.1	5,488.5	5,308.8	16.3	25.3	94.21	664.2	1,139.8	1,075.7	1,043.0	32.74	32.857		
5,700.0	5,626.1	5,603.8	5,420.9	16.4	25.8	93.38	678.2	1,163.0	1,095.2	1,062.2	32.94	33.251		
5,800.0	5,726.1	5,720.2	5,534.6	16.5	26.2	92.65	691.0	1,184.5	1,113.1	1,080.0	33.14	33.593		
5,900.0	5,826.1	5,837.6	5,649.7	16.6	26.7	92.00	702.8	1,204.1	1,129.6	1,096.2	33.34	33.882		
6,000.0	5,926.1	5,956.0	5,766.2	16.7	27.1	91.43	713.4	1,221.9	1,144.4	1,110.8	33.54	34.114		
6,100.0	6,026.1	6,075.1	5,884.0	16.8	27.4	90.94	722.9	1,237.7	1,157.5	1,123.7	33.76	34.289		
6,200.0	6,126.1	6,195.0	6,002.7	16.9	27.8	90.52	731.1	1,251.4	1,168.9	1,134.9	33.97	34.406		
6,300.0	6,226.1	6,315.5	6,122.5	17.0	28.0	90.17	738.1	1,263.1	1,178.6	1,144.4	34.20	34.466		
6,400.0	6,326.1	6,436.5	6,243.0	17.2	28.3	89.89	743.8	1,272.7	1,186.5	1,152.1	34.42	34.468		
6,500.0	6,426.1	6,557.9	6,364.1	17.3	28.5	89.68	748.3	1,280.0	1,192.6	1,157.9	34.66	34.411		
6,604.7	6,530.8	6,685.4	6,491.4	17.4	28.7	89.53	751.5	1,285.4	1,197.0	1,162.1	34.91	34.290		
6,650.0	6,576.1	6,740.6	6,546.6	17.4	28.7	-90.49	752.4	1,287.0	1,198.3	1,163.4	34.99	34.250		
6,700.0	6,625.8	6,801.2	6,607.2	17.4	28.8	-90.72	753.2	1,288.2	1,199.4	1,164.4	34.96	34.304		
6,750.0	6,675.1	6,861.4	6,667.4	17.3	28.8	-91.16	753.5	1,288.9	1,200.1	1,165.3	34.83	34.459		
6,800.0	6,723.7	6,917.7	6,723.7	17.2	28.9	-91.76	753.6	1,289.0	1,200.5	1,165.9	34.60	34.696		
6,850.0	6,771.3	6,969.1	6,775.0	17.1	28.9	-92.38	751.9	1,289.0	1,201.0	1,166.8	34.29	35.026		
6,900.0	6,817.8	7,021.5	6,827.2	16.9	28.9	-93.00	746.3	1,289.0	1,201.7	1,167.8	33.91	35.437		
6,950.0	6,862.9	7,075.2	6,879.9	16.7	28.8	-93.61	736.6	1,289.0	1,202.5	1,169.0	33.47	35.926		
7,000.0	6,906.3	7,130.0	6,932.9	16.4	28.7	-94.21	722.7	1,289.0	1,203.4	1,170.4	32.98	36.491		
7,050.0	6,948.0	7,186.1	6,985.9	16.1	28.6	-94.79	704.4	1,289.0	1,204.4	1,172.0	32.44	37.127		
7,100.0	6,987.6	7,243.4	7,038.4	15.9	28.5	-95.36	681.3	1,289.0	1,205.5	1,173.6	31.87	37.829		
7,150.0	7,024.9	7,302.0	7,090.0	15.6	28.3	-95.91	653.5	1,289.0	1,206.7	1,175.4	31.27	38.589		
7,200.0	7,059.9	7,362.0	7,140.2	15.3	28.1	-96.43	620.9	1,289.0	1,207.8	1,177.2	30.66	39.400		
7,250.0	7,092.3	7,423.2	7,188.5	15.0	27.9	-96.92	583.3	1,289.0	1,209.1	1,179.0	30.05	40.241		
7,300.0	7,121.9	7,485.7	7,234.3	14.7	27.7	-97.38	540.8	1,289.0	1,210.2	1,180.8	29.45	41.094		
7,350.0	7,148.7	7,549.4	7,277.0	14.4	27.5	-97.79	493.5	1,289.0	1,211.4	1,182.5	28.89	41.937		
7,400.0	7,172.4	7,614.3	7,316.0	14.2	27.3	-98.16	441.7	1,289.0	1,212.4	1,184.0	28.37	42.732		
7,450.0	7,193.1	7,680.2	7,350.6	13.9	27.1	-98.49	385.7	1,289.0	1,213.3	1,185.4	27.92	43.451		
7,500.0	7,210.5	7,746.9	7,380.3	13.8	26.9	-98.75	325.9	1,289.0	1,214.1	1,186.6	27.56	44.061		
7,550.0	7,224.6	7,814.5	7,404.6	13.6	26.7	-98.96	262.9	1,289.0	1,214.7	1,187.5	27.29	44.510		
7,600.0	7,235.3	7,882.6	7,422.9	13.5	26.6	-99.10	197.3	1,289.0	1,215.2	1,188.0	27.14	44.781		
7,650.0	7,242.6	7,951.0	7,435.0	13.5	26.5	-99.18	130.0	1,289.0	1,215.4	1,188.3	27.09	44.859		
7,700.0	7,246.4	8,019.6	7,440.6	13.5	26.5	-99.20	61.6	1,289.0	1,215.5	1,188.3	27.19	44.705		
7,729.7	7,247.0	8,055.9	7,441.0	13.6	26.5	-99.18	25.4	1,289.0	1,215.4	1,188.1	27.29	44.532		
7,800.0	7,247.0	8,126.2	7,441.0	13.7	26.6	-99.18	-44.9	1,289.0	1,215.4	1,187.7	27.66	43.946		
7,900.0	7,247.0	8,226.2	7,441.0	14.2	26.8	-99.18	-144.9	1,289.0	1,215.4	1,186.9	28.51	42.636		
8,000.0	7,247.0	8,326.2	7,441.0	14.8	27.1	-99.18	-244.9	1,289.0	1,215.4	1,185.6	29.74	40.870		
8,100.0	7,247.0	8,426.2	7,441.0	15.6	27.5	-99.19	-344.9	1,288.9	1,215.4	1,184.1	31.31	38.823		
8,200.0	7,247.0	8,526.2	7,441.0	16.5	28.0	-99.19	-444.9	1,288.9	1,215.3	1,182.2	33.16	36.649		
8,300.0	7,247.0	8,626.2	7,441.0	17.6	28.6	-99.19	-544.9	1,288.9	1,215.3	1,180.1	35.26	34.466		
8,400.0	7,247.0	8,726.2	7,441.0	18.8	29.3	-99.19	-644.9	1,288.9	1,215.3	1,177.8	37.56	32.353		
8,500.0	7,247.0	8,826.2	7,441.0	20.1	30.1	-99.19	-744.9	1,288.9	1,215.3	1,175.3	40.03	30.357		
8,600.0	7,247.0	8,926.2	7,441.0	21.4	31.0	-99.19	-844.9	1,288.9	1,215.3	1,172.6	42.64	28.499		
8,700.0	7,247.0	9,026.2	7,441.0	22.8	32.0	-99.19	-944.9	1,288.9	1,215.3	1,169.9	45.37	26.788		
8,800.0	7,247.0	9,126.2	7,441.0	24.2	33.0	-99.19	-1,044.9	1,288.9	1,215.3	1,167.1	48.18	25.221		
8,900.0	7,247.0	9,226.2	7,441.0	25.7	34.1	-99.19	-1,144.9	1,288.9	1,215.3	1,164.2	51.08	23.790		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 1G-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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		
9,000.0	7,247.0	9,326.2	7,441.0	27.2	35.2	-99.19	-1,244.9	1,288.9	1,215.2	1,161.2	54.05	22.485		
9,100.0	7,247.0	9,426.2	7,441.0	28.7	36.4	-99.19	-1,344.9	1,288.9	1,215.2	1,158.2	57.07	21.294		
9,200.0	7,247.0	9,526.2	7,441.0	30.3	37.6	-99.19	-1,444.9	1,288.9	1,215.2	1,155.1	60.14	20.207		
9,300.0	7,247.0	9,626.2	7,441.0	31.9	38.9	-99.19	-1,544.9	1,288.9	1,215.2	1,152.0	63.25	19.214		
9,400.0	7,247.0	9,726.2	7,441.0	33.5	40.2	-99.19	-1,644.9	1,288.9	1,215.2	1,148.8	66.39	18.303		
9,500.0	7,247.0	9,826.2	7,441.0	35.1	41.6	-99.19	-1,744.9	1,288.9	1,215.2	1,145.6	69.57	17.468		
9,600.0	7,247.0	9,926.2	7,441.0	36.7	43.0	-99.19	-1,844.9	1,288.9	1,215.2	1,142.4	72.77	16.699		
9,700.0	7,247.0	10,026.2	7,441.0	38.3	44.4	-99.19	-1,944.9	1,288.9	1,215.1	1,139.2	75.99	15.991		
9,800.0	7,247.0	10,126.2	7,441.0	40.0	45.8	-99.19	-2,044.9	1,288.8	1,215.1	1,135.9	79.24	15.336		
9,900.0	7,247.0	10,226.2	7,441.0	41.6	47.3	-99.19	-2,144.9	1,288.8	1,215.1	1,132.6	82.50	14.729		
10,000.0	7,247.0	10,326.2	7,441.0	43.3	48.7	-99.19	-2,244.9	1,288.8	1,215.1	1,129.3	85.78	14.166		
10,100.0	7,247.0	10,426.2	7,441.0	45.0	50.2	-99.19	-2,344.9	1,288.8	1,215.1	1,126.0	89.07	13.642		
10,200.0	7,247.0	10,526.2	7,441.0	46.6	51.7	-99.19	-2,444.9	1,288.8	1,215.1	1,122.7	92.37	13.154		
10,300.0	7,247.0	10,626.2	7,441.0	48.3	53.3	-99.19	-2,544.9	1,288.8	1,215.1	1,119.4	95.69	12.698		
10,400.0	7,247.0	10,726.2	7,441.0	50.0	54.8	-99.19	-2,644.9	1,288.8	1,215.1	1,116.0	99.02	12.271		
10,500.0	7,247.0	10,826.2	7,441.0	51.7	56.4	-99.19	-2,744.9	1,288.8	1,215.0	1,112.7	102.35	11.871		
10,600.0	7,247.0	10,926.2	7,441.0	53.4	57.9	-99.19	-2,844.9	1,288.8	1,215.0	1,109.3	105.69	11.496		
10,700.0	7,247.0	11,026.2	7,441.0	55.1	59.5	-99.19	-2,944.9	1,288.8	1,215.0	1,106.0	109.04	11.142		
10,800.0	7,247.0	11,126.2	7,441.0	56.8	61.1	-99.19	-3,044.9	1,288.8	1,215.0	1,102.6	112.40	10.809		
10,900.0	7,247.0	11,226.2	7,441.0	58.5	62.7	-99.19	-3,144.9	1,288.8	1,215.0	1,099.2	115.77	10.495		
11,000.0	7,247.0	11,326.2	7,441.0	60.2	64.3	-99.19	-3,244.9	1,288.8	1,215.0	1,095.8	119.14	10.198		
11,100.0	7,247.0	11,426.2	7,441.0	61.9	65.9	-99.19	-3,344.9	1,288.8	1,215.0	1,092.4	122.51	9.917		
11,200.0	7,247.0	11,526.2	7,441.0	63.6	67.5	-99.19	-3,444.9	1,288.8	1,214.9	1,089.1	125.89	9.651		
11,300.0	7,247.0	11,626.2	7,441.0	65.4	69.1	-99.19	-3,544.9	1,288.8	1,214.9	1,085.7	129.28	9.398		
11,400.0	7,247.0	11,726.2	7,441.0	67.1	70.7	-99.19	-3,644.9	1,288.8	1,214.9	1,082.3	132.66	9.158		
11,500.0	7,247.0	11,826.2	7,441.0	68.8	72.4	-99.19	-3,744.9	1,288.8	1,214.9	1,078.9	136.06	8.929		
11,600.0	7,247.0	11,926.2	7,441.0	70.5	74.0	-99.19	-3,844.9	1,288.7	1,214.9	1,075.4	139.45	8.712		
11,700.0	7,247.0	12,026.2	7,441.0	72.2	75.7	-99.19	-3,944.9	1,288.7	1,214.9	1,072.0	142.85	8.505		
11,800.0	7,247.0	12,126.2	7,441.0	74.0	77.3	-99.19	-4,044.9	1,288.7	1,214.9	1,068.6	146.25	8.307		
11,809.6	7,247.0	12,135.7	7,441.0	74.1	77.5	-99.19	-4,054.4	1,288.7	1,214.9	1,068.3	146.58	8.288		
11,816.8	7,247.0	12,135.7	7,441.0	74.2	77.5	-99.19	-4,054.4	1,288.7	1,214.9	1,068.2	146.70	8.281 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 42-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	154.06	-1,324.5	644.3	1,473.0					
100.0	100.0	84.0	84.0	0.2	0.1	154.06	-1,324.5	644.3	1,472.9	1,472.6	0.30	4,934.586		
200.0	200.0	184.0	184.0	0.3	0.3	154.06	-1,324.5	644.3	1,472.9	1,472.2	0.65	2,274.676		
300.0	300.0	284.0	284.0	0.5	0.5	154.06	-1,324.5	644.3	1,472.9	1,471.9	1.00	1,477.942		
400.0	400.0	384.0	384.0	0.7	0.7	154.06	-1,324.5	644.3	1,472.9	1,471.5	1.35	1,094.559		
500.0	500.0	484.0	484.0	0.8	0.8	154.06	-1,324.5	644.3	1,472.9	1,471.2	1.69	869.109		
600.0	600.0	584.0	584.0	1.0	1.0	147.22	-1,324.5	644.3	1,473.6	1,471.6	2.04	721.035		
700.0	700.0	684.0	684.0	1.2	1.2	147.27	-1,324.5	644.3	1,475.8	1,473.4	2.39	616.681		
800.0	799.9	783.9	783.9	1.4	1.4	147.34	-1,324.5	644.3	1,479.5	1,476.8	2.74	539.233		
900.0	899.7	883.7	883.7	1.6	1.5	147.44	-1,324.5	644.3	1,484.6	1,481.5	3.10	479.509		
1,000.0	999.4	983.4	983.4	1.8	1.7	147.56	-1,324.5	644.3	1,491.3	1,487.8	3.45	432.076		
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	147.72	-1,324.5	644.3	1,499.4	1,495.6	3.81	393.521		
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	147.90	-1,324.5	644.3	1,509.0	1,504.8	4.17	361.594		
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	148.10	-1,324.5	644.3	1,520.1	1,515.5	4.54	334.754		
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	148.32	-1,324.5	644.3	1,532.7	1,527.8	4.91	311.910		
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	148.57	-1,324.5	644.3	1,546.8	1,541.5	5.29	292.270		
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	148.83	-1,324.5	644.3	1,562.4	1,556.8	5.68	275.243		
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	149.12	-1,324.5	644.3	1,579.6	1,573.5	6.07	260.379		
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	149.41	-1,324.5	644.3	1,598.3	1,591.9	6.46	247.330		
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	149.82	-1,324.5	644.3	1,617.9	1,611.0	6.87	235.642		
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	150.21	-1,324.5	644.3	1,637.5	1,630.2	7.27	225.261		
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	150.59	-1,324.5	644.3	1,657.1	1,649.5	7.67	215.995		
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	150.97	-1,324.5	644.3	1,676.9	1,668.8	8.07	207.684		
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	151.34	-1,324.5	644.3	1,696.7	1,688.2	8.48	200.196		
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	151.69	-1,324.5	644.3	1,716.6	1,707.7	8.87	193.420		
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	152.04	-1,324.5	644.3	1,736.6	1,727.3	9.27	187.264		
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	152.39	-1,324.5	644.3	1,756.6	1,746.9	9.67	181.650		
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	152.72	-1,324.5	644.3	1,776.6	1,766.6	10.07	176.511		
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	153.05	-1,324.5	644.3	1,796.8	1,786.3	10.46	171.792		
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	153.37	-1,324.5	644.3	1,817.0	1,806.1	10.85	167.446		
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	153.68	-1,324.5	644.3	1,837.2	1,825.9	11.24	163.431		
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	153.99	-1,324.5	644.3	1,857.5	1,845.8	11.63	159.712		
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	154.29	-1,324.5	644.3	1,877.8	1,865.8	12.02	156.259		
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	154.58	-1,324.5	644.3	1,898.2	1,885.8	12.40	153.044		
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	154.87	-1,324.5	644.3	1,918.6	1,905.9	12.79	150.045		
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	155.15	-1,324.5	644.3	1,939.1	1,926.0	13.17	147.241		
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	155.42	-1,324.5	644.3	1,959.7	1,946.1	13.55	144.614		
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	155.69	-1,324.5	644.3	1,980.2	1,966.3	13.93	142.149		
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	155.96	-1,324.5	644.3	2,000.8	1,986.5	14.31	139.831		
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	156.00	-1,324.5	644.3	2,003.9	1,989.6	14.37	139.495		
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	156.28	-1,324.5	644.3	2,020.9	2,006.2	14.69	137.571		
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	156.58	-1,324.5	644.3	2,039.5	2,024.4	15.07	135.374		
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	156.85	-1,324.5	644.3	2,056.5	2,041.1	15.44	133.234		
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	157.10	-1,324.5	644.3	2,072.0	2,056.2	15.80	131.144		
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	157.31	-1,324.5	644.3	2,085.9	2,069.7	16.16	129.094		
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	157.50	-1,324.5	644.3	2,098.2	2,081.6	16.51	127.078		
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	157.66	-1,324.5	644.3	2,108.9	2,092.0	16.86	125.092		
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	157.79	-1,324.5	644.3	2,118.0	2,100.8	17.20	123.130		
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	157.91	-1,324.5	644.3	2,125.5	2,108.0	17.54	121.189		
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	157.99	-1,324.5	644.3	2,131.4	2,113.5	17.87	119.264		
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	158.05	-1,324.5	644.3	2,135.7	2,117.5	18.20	117.355		
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	158.09	-1,324.5	644.3	2,138.4	2,119.8	18.52	115.457		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 42-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	158.11	-1,324.5	644.3	2,139.4	2,120.6	18.84	113.569		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	164.96	-1,324.5	644.3	2,139.4	2,120.6	18.89	113.287		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	164.96	-1,324.5	644.3	2,139.4	2,120.3	19.16	111.636		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	164.96	-1,324.5	644.3	2,139.4	2,119.9	19.49	109.752		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	164.96	-1,324.5	644.3	2,139.4	2,119.6	19.82	107.926		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	164.96	-1,324.5	644.3	2,139.4	2,119.3	20.15	106.158		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	164.96	-1,324.5	644.3	2,139.4	2,119.0	20.48	104.443		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	164.96	-1,324.5	644.3	2,139.4	2,118.6	20.82	102.780		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	164.96	-1,324.5	644.3	2,139.4	2,118.3	21.15	101.167		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	164.96	-1,324.5	644.3	2,139.4	2,118.0	21.48	99.601		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	164.96	-1,324.5	644.3	2,139.4	2,117.6	21.81	98.081		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	164.96	-1,324.5	644.3	2,139.4	2,117.3	22.15	96.605		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	164.96	-1,324.5	644.3	2,139.4	2,117.0	22.48	95.170		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	164.96	-1,324.5	644.3	2,139.4	2,116.6	22.81	93.776		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	164.96	-1,324.5	644.3	2,139.4	2,116.3	23.15	92.420		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	164.96	-1,324.5	644.3	2,139.4	2,116.0	23.48	91.102		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	164.96	-1,324.5	644.3	2,139.4	2,115.6	23.84	89.759		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	-15.08	-1,324.5	644.3	2,138.1	2,114.1	23.91	89.415		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	-15.21	-1,324.5	644.3	2,133.3	2,109.4	23.93	89.145		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	-15.44	-1,324.5	644.3	2,125.3	2,101.4	23.88	88.983		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	-15.78	-1,324.5	644.3	2,113.9	2,090.1	23.77	88.922		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	-16.23	-1,324.5	644.3	2,099.3	2,075.7	23.60	88.951		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	-16.80	-1,324.5	644.3	2,081.5	2,058.2	23.37	89.055		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	-17.52	-1,324.5	644.3	2,060.7	2,037.6	23.10	89.214		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	-18.40	-1,324.5	644.3	2,036.9	2,014.1	22.78	89.397		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	-19.46	-1,324.5	644.3	2,010.3	1,987.8	22.45	89.564		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	-20.75	-1,324.5	644.3	1,981.0	1,958.9	22.10	89.656		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	-22.31	-1,324.5	644.3	1,949.1	1,927.4	21.76	89.594		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	-24.20	-1,324.5	644.3	1,914.9	1,893.5	21.45	89.271		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	-26.48	-1,324.5	644.3	1,878.5	1,857.3	21.21	88.552		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	-29.26	-1,324.5	644.3	1,840.1	1,819.0	21.08	87.276		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	-32.66	-1,324.5	644.3	1,799.9	1,778.8	21.11	85.272		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	-36.83	-1,324.5	644.3	1,758.1	1,736.7	21.33	82.406		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	-41.94	-1,324.5	644.3	1,714.9	1,693.1	21.81	78.641		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	-48.17	-1,324.5	644.3	1,670.7	1,648.1	22.54	74.116		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	-55.65	-1,324.5	644.3	1,625.5	1,602.0	23.49	69.196		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	-64.36	-1,324.5	644.3	1,579.7	1,555.2	24.52	64.415		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	-74.04	-1,324.5	644.3	1,533.5	1,508.1	25.42	60.320		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	-84.12	-1,324.5	644.3	1,487.1	1,461.2	25.97	57.256		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	-90.00	-1,324.5	644.3	1,459.6	1,433.5	26.09	55.943		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	-90.00	-1,324.5	644.3	1,394.9	1,368.6	26.27	53.102		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	-90.00	-1,324.5	644.3	1,303.7	1,277.0	26.70	48.825		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	-90.00	-1,324.5	644.3	1,214.0	1,186.7	27.33	44.414		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	-90.00	-1,324.5	644.3	1,126.0	1,097.9	28.14	40.015		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	-90.00	-1,324.5	644.3	1,040.2	1,011.1	29.09	35.754		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	-90.00	-1,324.5	644.3	957.1	926.9	30.17	31.723		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	-90.00	-1,324.5	644.3	877.5	846.2	31.35	27.992		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	-90.00	-1,324.5	644.3	802.6	770.0	32.61	24.608		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	-90.00	-1,324.5	644.3	733.6	699.7	33.95	21.610		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	-90.00	-1,324.5	644.3	672.5	637.1	35.34	19.030		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	-90.00	-1,324.5	644.3	621.5	584.8	36.78	16.900		
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	-90.00	-1,324.5	644.3	583.4	545.2	38.25	15.251		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 42-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	-90.00	-1,324.5	644.3	560.7	521.0	39.76	14.101		
9,079.7	7,247.0	7,231.0	7,231.0	28.4	12.6	-90.00	-1,324.5	644.3	555.0	514.1	40.99	13.541 CC, ES		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	-90.00	-1,324.5	644.3	555.4	514.1	41.30	13.447		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	-90.00	-1,324.5	644.3	567.9	525.1	42.86	13.249 SF		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	-90.00	-1,324.5	644.3	597.2	552.7	44.45	13.436		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	-90.00	-1,324.5	644.3	640.8	594.8	46.05	13.918		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	-90.00	-1,324.5	644.3	696.2	648.6	47.66	14.609		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	-90.00	-1,324.5	644.3	760.8	711.5	49.29	15.436		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	-90.00	-1,324.5	644.3	832.4	781.5	50.92	16.346		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	-90.00	-1,324.5	644.3	909.4	856.8	52.57	17.297		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	-90.00	-1,324.5	644.3	990.5	936.2	54.23	18.264		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	-90.00	-1,324.5	644.3	1,074.7	1,018.8	55.89	19.229		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	-90.00	-1,324.5	644.3	1,161.5	1,104.0	57.56	20.178		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	-90.00	-1,324.5	644.3	1,250.3	1,191.0	59.24	21.105		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	-90.00	-1,324.5	644.3	1,340.6	1,279.7	60.92	22.005		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	-90.00	-1,324.5	644.3	1,432.2	1,369.6	62.61	22.875		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	-90.00	-1,324.5	644.3	1,524.9	1,460.6	64.30	23.715		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	-90.00	-1,324.5	644.3	1,618.5	1,552.5	66.00	24.523		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	-90.00	-1,324.5	644.3	1,712.7	1,645.0	67.70	25.300		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	-90.00	-1,324.5	644.3	1,807.6	1,738.2	69.40	26.046		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	-90.00	-1,324.5	644.3	1,903.1	1,832.0	71.11	26.763		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	-90.00	-1,324.5	644.3	1,998.9	1,926.1	72.82	27.452		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	-90.00	-1,324.5	644.3	2,095.2	2,020.6	74.53	28.113		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	-90.00	-1,324.5	644.3	2,191.8	2,115.5	76.24	28.748		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	-90.00	-1,324.5	644.3	2,288.6	2,210.7	77.96	29.358		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	-90.00	-1,324.5	644.3	2,385.8	2,306.1	79.67	29.944		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	-90.00	-1,324.5	644.3	2,483.1	2,401.8	81.39	30.508		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	-90.00	-1,324.5	644.3	2,580.7	2,497.6	83.11	31.050		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	-90.00	-1,324.5	644.3	2,678.5	2,593.6	84.84	31.572		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	-90.00	-1,324.5	644.3	2,776.4	2,689.8	86.56	32.074		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	-90.00	-1,324.5	644.3	2,792.9	2,706.0	86.85	32.157		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 4-2-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 8276-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	126.58	-284.8	383.8	478.2					
100.0	100.0	84.0	84.0	0.2	0.1	126.58	-284.8	383.8	477.9	477.6	0.30	1,600.288		
200.0	200.0	184.0	184.0	0.3	0.3	126.58	-284.8	383.8	477.9	477.3	0.65	737.866		
300.0	300.0	284.0	284.0	0.5	0.5	126.58	-284.8	383.8	477.9	476.9	1.00	479.471		
400.0	400.0	384.0	384.0	0.7	0.7	126.58	-284.8	383.8	477.9	476.6	1.35	355.113		
500.0	500.0	484.0	484.0	0.8	0.8	126.58	-284.8	383.8	477.9	476.2	1.69	281.978		
600.0	600.0	584.0	584.0	1.0	1.0	119.82	-284.8	383.8	478.4	476.3	2.04	234.002		
700.0	700.0	684.0	684.0	1.2	1.2	120.08	-284.8	383.8	479.7	477.3	2.40	200.249		
800.0	799.9	783.9	783.9	1.4	1.4	120.51	-284.8	383.8	481.9	479.1	2.75	175.206		
900.0	899.7	883.7	883.7	1.6	1.5	121.10	-284.8	383.8	485.0	481.9	3.11	155.883		
1,000.0	999.4	983.4	983.4	1.8	1.7	121.85	-284.8	383.8	489.1	485.6	3.48	140.534		
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	122.75	-284.8	383.8	494.2	490.4	3.86	128.076		
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	123.79	-284.8	383.8	500.5	496.2	4.25	117.808		
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	124.94	-284.8	383.8	507.9	503.2	4.65	109.255		
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	126.21	-284.8	383.8	516.6	511.5	5.06	102.084		
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	127.56	-284.8	383.8	526.6	521.1	5.48	96.054		
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	129.00	-284.8	383.8	538.0	532.0	5.91	90.984		
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	130.49	-284.8	383.8	550.9	544.5	6.35	86.732		
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	132.03	-284.8	383.8	565.3	558.5	6.80	83.189		
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	133.66	-284.8	383.8	580.8	573.6	7.24	80.258		
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	135.20	-284.8	383.8	596.8	589.1	7.67	77.782		
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	136.66	-284.8	383.8	613.2	605.1	8.10	75.682		
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	138.05	-284.8	383.8	629.9	621.4	8.52	73.895		
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	139.37	-284.8	383.8	647.0	638.1	8.94	72.369		
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	140.62	-284.8	383.8	664.4	655.1	9.35	71.060		
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	141.81	-284.8	383.8	682.1	672.4	9.75	69.935		
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	142.93	-284.8	383.8	700.1	690.0	10.15	68.966		
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	144.01	-284.8	383.8	718.3	707.8	10.54	68.129		
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	145.03	-284.8	383.8	736.8	725.9	10.93	67.404		
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	146.00	-284.8	383.8	755.5	744.2	11.31	66.776		
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	146.92	-284.8	383.8	774.4	762.7	11.69	66.231		
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	147.80	-284.8	383.8	793.5	781.4	12.07	65.757		
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	148.64	-284.8	383.8	812.8	800.3	12.44	65.346		
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	149.44	-284.8	383.8	832.2	819.4	12.81	64.988		
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	150.20	-284.8	383.8	851.7	838.6	13.17	64.677		
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	150.93	-284.8	383.8	871.5	857.9	13.53	64.407		
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	151.63	-284.8	383.8	891.3	877.4	13.89	64.172		
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	152.30	-284.8	383.8	911.3	897.0	14.25	63.969		
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	152.94	-284.8	383.8	931.4	916.8	14.60	63.793		
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	153.03	-284.8	383.8	934.4	919.7	14.65	63.769		
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	153.61	-284.8	383.8	951.0	936.0	14.95	63.593		
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	154.22	-284.8	383.8	969.2	953.9	15.30	63.326		
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	154.76	-284.8	383.8	985.9	970.3	15.65	62.993		
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	155.23	-284.8	383.8	1,001.2	985.2	15.99	62.594		
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	155.65	-284.8	383.8	1,014.9	998.5	16.33	62.132		
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	156.00	-284.8	383.8	1,027.0	1,010.4	16.67	61.607		
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	156.30	-284.8	383.8	1,037.6	1,020.6	17.00	61.023		
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	156.56	-284.8	383.8	1,046.7	1,029.3	17.33	60.382		
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	156.76	-284.8	383.8	1,054.1	1,036.5	17.66	59.684		
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	156.92	-284.8	383.8	1,060.0	1,042.0	17.99	58.934		
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	157.03	-284.8	383.8	1,064.2	1,045.9	18.31	58.133		
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	157.10	-284.8	383.8	1,066.9	1,048.3	18.62	57.283		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 4-2-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 8276-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	157.13	-284.8	383.8	1,067.9	1,049.0	18.94	56.387		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	163.98	-284.8	383.8	1,067.9	1,049.0	18.99	56.249		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	163.98	-284.8	383.8	1,067.9	1,048.7	19.26	55.438		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	163.98	-284.8	383.8	1,067.9	1,048.4	19.59	54.510		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	163.98	-284.8	383.8	1,067.9	1,048.0	19.92	53.612		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	163.98	-284.8	383.8	1,067.9	1,047.7	20.25	52.741		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	163.98	-284.8	383.8	1,067.9	1,047.4	20.58	51.897		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	163.98	-284.8	383.8	1,067.9	1,047.0	20.91	51.078		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	163.98	-284.8	383.8	1,067.9	1,046.7	21.24	50.282		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	163.98	-284.8	383.8	1,067.9	1,046.4	21.57	49.510		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	163.98	-284.8	383.8	1,067.9	1,046.0	21.90	48.761		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	163.98	-284.8	383.8	1,067.9	1,045.7	22.23	48.032		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	163.98	-284.8	383.8	1,067.9	1,045.4	22.57	47.324		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	163.98	-284.8	383.8	1,067.9	1,045.0	22.90	46.636		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	163.98	-284.8	383.8	1,067.9	1,044.7	23.23	45.966		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	163.98	-284.8	383.8	1,067.9	1,044.4	23.57	45.315		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	163.98	-284.8	383.8	1,067.9	1,044.0	23.92	44.652		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	-16.06	-284.8	383.8	1,066.6	1,042.6	23.99	44.450		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	-16.24	-284.8	383.8	1,061.9	1,037.8	24.02	44.210		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	-16.55	-284.8	383.8	1,053.8	1,029.9	23.98	43.947		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	-17.01	-284.8	383.8	1,042.5	1,018.7	23.88	43.657		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	-17.62	-284.8	383.8	1,028.0	1,004.3	23.73	43.330		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	-18.40	-284.8	383.8	1,010.4	986.9	23.52	42.956		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	-19.39	-284.8	383.8	989.7	966.5	23.28	42.518		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	-20.61	-284.8	383.8	966.2	943.2	23.01	41.994		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	-22.10	-284.8	383.8	939.8	917.1	22.73	41.357		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	-23.93	-284.8	383.8	910.9	888.5	22.45	40.570		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	-26.15	-284.8	383.8	879.6	857.3	22.22	39.588		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	-28.86	-284.8	383.8	846.0	823.9	22.05	38.361		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	-32.15	-284.8	383.8	810.4	788.4	22.00	36.838		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	-36.13	-284.8	383.8	773.0	750.9	22.10	34.983		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	-40.90	-284.8	383.8	734.2	711.8	22.39	32.796		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	-46.54	-284.8	383.8	694.1	671.2	22.88	30.342		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	-53.01	-284.8	383.8	653.2	629.6	23.54	27.750		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	-60.16	-284.8	383.8	611.7	587.4	24.28	25.193		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	-67.64	-284.8	383.8	570.1	545.2	24.98	22.824		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	-74.97	-284.8	383.8	528.9	503.4	25.52	20.725		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	-81.64	-284.8	383.8	488.6	462.8	25.86	18.894		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	-87.26	-284.8	383.8	449.9	423.8	26.04	17.279		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	-90.00	-284.8	383.8	427.9	401.8	26.09	16.399		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	-90.00	-284.8	383.8	380.0	353.7	26.27	14.466		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	-90.00	-284.8	383.8	326.2	299.5	26.70	12.215		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	-90.00	-284.8	383.8	297.3	270.0	27.33	10.877		
8,040.0	7,247.0	7,231.0	7,231.0	15.1	12.6	-90.00	-284.8	383.8	294.6	266.9	27.66	10.652 CC, ES, SF		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	-90.00	-284.8	383.8	300.6	272.5	28.14	10.684		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	-90.00	-284.8	383.8	335.2	306.1	29.09	11.523		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	-90.00	-284.8	383.8	392.9	362.7	30.17	13.024		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	-90.00	-284.8	383.8	465.2	433.8	31.35	14.838		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	-90.00	-284.8	383.8	546.2	513.6	32.61	16.749		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	-90.00	-284.8	383.8	632.8	598.8	33.95	18.639		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	-90.00	-284.8	383.8	722.8	687.4	35.34	20.452		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	-90.00	-284.8	383.8	815.1	778.3	36.78	22.163		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 4-2-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 8276-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	7,247.0	7,231.0	7,231.0	25.7	12.6	-90.00	-284.8	383.8	909.0	870.8	38.25	23.763		
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	-90.00	-284.8	383.8	1,004.2	964.4	39.76	25.253		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	-90.00	-284.8	383.8	1,100.2	1,058.9	41.30	26.636		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	-90.00	-284.8	383.8	1,196.8	1,153.9	42.86	27.921		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	-90.00	-284.8	383.8	1,294.0	1,249.5	44.45	29.113		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	-90.00	-284.8	383.8	1,391.5	1,345.5	46.05	30.221		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	-90.00	-284.8	383.8	1,489.4	1,441.8	47.66	31.251		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	-90.00	-284.8	383.8	1,587.6	1,538.3	49.29	32.211		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	-90.00	-284.8	383.8	1,685.9	1,635.0	50.92	33.107		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	-90.00	-284.8	383.8	1,784.5	1,731.9	52.57	33.943		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	-90.00	-284.8	383.8	1,883.2	1,828.9	54.23	34.727		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	-90.00	-284.8	383.8	1,982.0	1,926.1	55.89	35.461		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	-90.00	-284.8	383.8	2,080.9	2,023.4	57.56	36.150		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	-90.00	-284.8	383.8	2,180.0	2,120.7	59.24	36.799		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	-90.00	-284.8	383.8	2,279.1	2,218.2	60.92	37.409		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	-90.00	-284.8	383.8	2,378.3	2,315.7	62.61	37.986		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	-90.00	-284.8	383.8	2,477.6	2,413.3	64.30	38.530		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	-90.00	-284.8	383.8	2,576.9	2,510.9	66.00	39.044		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	-90.00	-284.8	383.8	2,676.3	2,608.6	67.70	39.532		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	-90.00	-284.8	383.8	2,775.7	2,706.3	69.40	39.995		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	-90.00	-284.8	383.8	2,875.1	2,804.0	71.11	40.434		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	-90.00	-284.8	383.8	2,974.6	2,901.8	72.82	40.851		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	-90.00	-284.8	383.8	3,074.1	2,999.6	74.53	41.249		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	-90.00	-284.8	383.8	3,173.7	3,097.5	76.24	41.627		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	-90.00	-284.8	383.8	3,273.3	3,195.3	77.96	41.989		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	-90.00	-284.8	383.8	3,372.9	3,293.2	79.67	42.334		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	-90.00	-284.8	383.8	3,472.5	3,391.1	81.39	42.663		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	-90.00	-284.8	383.8	3,572.2	3,489.0	83.11	42.979		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	-90.00	-284.8	383.8	3,671.8	3,587.0	84.84	43.281		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	-90.00	-284.8	383.8	3,771.5	3,685.0	86.56	43.570		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	-90.00	-284.8	383.8	3,788.3	3,701.5	86.85	43.618		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 44-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 100-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	170.32	-4,061.0	692.4	4,119.6					
100.0	100.0	82.5	82.5	0.2	0.1	170.32	-4,060.9	692.8	4,119.6	4,119.3	0.30	N/A		
200.0	200.0	207.5	207.4	0.3	0.4	170.30	-4,060.4	694.0	4,119.4	4,118.7	0.69	5,968.923		
300.0	300.0	309.7	309.7	0.5	0.5	170.29	-4,059.7	694.6	4,118.8	4,117.8	1.04	3,946.461		
400.0	400.0	426.6	426.6	0.7	0.7	170.28	-4,058.6	695.3	4,117.9	4,116.5	1.42	2,893.836		
500.0	500.0	539.5	539.5	0.8	0.9	170.27	-4,057.2	695.9	4,116.8	4,115.0	1.80	2,292.361		
600.0	600.0	662.2	662.1	1.0	1.2	163.40	-4,054.9	697.4	4,116.0	4,113.8	2.19	1,882.650		
621.8	621.8	689.7	689.6	1.1	1.2	163.39	-4,054.3	697.8	4,116.0	4,113.7	2.27	1,810.827		
700.0	700.0	768.8	768.7	1.2	1.4	163.38	-4,052.4	699.1	4,116.5	4,113.9	2.55	1,614.214		
800.0	799.9	850.4	850.3	1.4	1.5	163.36	-4,050.5	700.7	4,118.8	4,115.9	2.87	1,435.400		
900.0	899.7	934.4	934.2	1.6	1.7	163.34	-4,049.2	702.2	4,123.3	4,120.1	3.19	1,291.227		
1,000.0	999.4	1,030.2	1,030.0	1.8	1.8	163.32	-4,047.6	704.2	4,129.5	4,126.0	3.54	1,166.780		
1,100.0	1,098.9	1,118.2	1,117.9	2.0	2.0	163.31	-4,046.5	706.0	4,137.8	4,133.9	3.87	1,068.928		
1,200.0	1,198.3	1,236.4	1,236.1	2.2	2.2	163.30	-4,044.7	708.0	4,147.5	4,143.2	4.26	974.361		
1,300.0	1,297.4	1,335.9	1,335.6	2.5	2.4	163.29	-4,043.2	709.7	4,158.7	4,154.1	4.61	902.071		
1,400.0	1,396.3	1,431.4	1,431.1	2.8	2.5	163.29	-4,041.6	711.1	4,171.6	4,166.6	4.96	841.579		
1,500.0	1,494.9	1,519.0	1,518.7	3.1	2.7	163.29	-4,040.6	712.1	4,186.4	4,181.1	5.29	791.324		
1,600.0	1,593.3	1,630.0	1,629.7	3.4	2.9	163.30	-4,039.0	713.3	4,202.6	4,197.0	5.67	741.709		
1,700.0	1,691.2	1,710.9	1,710.6	3.8	3.0	163.30	-4,038.0	714.1	4,220.8	4,214.8	5.99	704.549		
1,800.0	1,788.9	1,836.2	1,835.8	4.2	3.3	163.33	-4,036.3	714.9	4,240.3	4,233.9	6.39	663.324		
1,900.0	1,886.3	1,926.1	1,925.7	4.6	3.4	163.41	-4,035.0	715.1	4,260.5	4,253.8	6.74	631.693		
2,000.0	1,983.7	2,015.4	2,015.1	5.0	3.6	163.48	-4,033.9	715.0	4,280.9	4,273.8	7.10	603.341		
2,100.0	2,081.2	2,100.0	2,099.6	5.4	3.7	163.56	-4,033.1	714.6	4,301.6	4,294.2	7.44	578.331		
2,200.0	2,178.6	2,164.3	2,163.9	5.8	3.8	163.62	-4,032.9	714.2	4,322.8	4,315.1	7.75	558.040		
2,300.0	2,276.1	2,264.9	2,264.5	6.2	4.0	163.72	-4,033.2	713.5	4,344.6	4,336.5	8.12	535.293		
2,400.0	2,373.5	2,373.5	2,373.1	6.6	4.2	163.82	-4,032.9	712.9	4,365.9	4,357.4	8.50	513.633		
2,500.0	2,470.9	2,458.2	2,457.8	7.0	4.3	163.89	-4,032.8	712.5	4,387.3	4,378.5	8.84	496.056		
2,600.0	2,568.4	2,546.3	2,545.9	7.4	4.5	163.97	-4,032.9	712.5	4,409.1	4,399.9	9.19	479.523		
2,700.0	2,665.8	2,648.3	2,647.9	7.8	4.7	164.05	-4,033.0	712.5	4,430.9	4,421.3	9.57	463.071		
2,800.0	2,763.2	2,757.0	2,756.6	8.3	4.8	164.14	-4,032.9	712.5	4,452.5	4,442.5	9.95	447.319		
2,900.0	2,860.7	2,894.4	2,894.0	8.7	5.1	164.24	-4,032.0	713.0	4,473.6	4,463.3	10.39	430.648		
3,000.0	2,958.1	2,979.1	2,978.7	9.1	5.2	164.31	-4,031.2	713.2	4,494.4	4,483.6	10.73	418.749		
3,100.0	3,055.6	3,088.8	3,088.4	9.5	5.4	164.40	-4,030.3	712.7	4,515.2	4,504.1	11.12	406.126		
3,200.0	3,153.0	3,202.4	3,202.0	10.0	5.6	164.50	-4,029.0	711.4	4,535.7	4,524.2	11.51	394.135		
3,300.0	3,250.4	3,298.1	3,297.6	10.4	5.8	164.59	-4,027.8	710.1	4,556.0	4,544.2	11.87	383.886		
3,400.0	3,347.9	3,383.1	3,382.7	10.8	5.9	164.67	-4,026.9	708.9	4,576.5	4,564.3	12.21	374.802		
3,500.0	3,445.3	3,472.3	3,471.8	11.2	6.1	164.75	-4,026.2	707.6	4,597.3	4,584.7	12.56	366.045		
3,600.0	3,542.7	3,561.3	3,560.8	11.7	6.3	164.83	-4,025.6	706.3	4,618.2	4,605.3	12.91	357.789		
3,700.0	3,640.2	3,655.2	3,654.7	12.1	6.4	164.92	-4,025.2	704.9	4,639.3	4,626.0	13.26	349.779		
3,800.0	3,737.6	3,743.8	3,743.3	12.5	6.6	165.00	-4,024.9	703.3	4,660.5	4,646.9	13.61	342.422		
3,815.0	3,752.2	3,756.0	3,755.5	12.6	6.6	165.01	-4,024.8	703.1	4,663.7	4,650.0	13.66	341.402		
3,900.0	3,835.2	3,829.1	3,828.6	12.9	6.7	165.13	-4,024.8	701.8	4,681.4	4,667.4	13.96	335.285		
4,000.0	3,933.1	3,924.3	3,923.8	13.3	6.9	165.25	-4,024.7	701.2	4,700.7	4,686.4	14.33	328.036		
4,100.0	4,031.4	4,021.7	4,021.2	13.6	7.0	165.35	-4,024.6	701.4	4,718.5	4,703.8	14.70	321.043		
4,200.0	4,130.0	4,123.5	4,123.0	14.0	7.2	165.44	-4,024.4	701.3	4,734.5	4,719.5	15.07	314.226		
4,300.0	4,228.9	4,203.8	4,203.3	14.3	7.4	165.53	-4,024.5	700.5	4,749.1	4,733.7	15.40	308.482		
4,400.0	4,328.0	4,313.9	4,313.3	14.6	7.6	165.63	-4,024.9	698.1	4,762.1	4,746.4	15.77	302.033		
4,500.0	4,427.3	4,457.5	4,456.9	14.8	7.8	165.76	-4,024.9	693.3	4,772.9	4,756.7	16.19	294.803		
4,600.0	4,526.8	4,600.0	4,599.3	15.0	8.1	165.89	-4,023.5	687.8	4,781.0	4,764.4	16.61	287.874		
4,700.0	4,626.5	4,690.6	4,689.8	15.2	8.2	165.96	-4,022.2	684.5	4,787.0	4,770.1	16.93	282.675		
4,800.0	4,726.3	4,774.9	4,774.1	15.4	8.4	166.02	-4,021.3	681.7	4,791.7	4,774.4	17.25	277.833		
4,900.0	4,826.2	4,862.3	4,861.4	15.6	8.5	166.08	-4,020.6	678.7	4,795.0	4,777.4	17.56	273.071		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 44-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 100-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,926.1	4,936.0	4,935.1	15.7	8.7	166.12	-4,020.3	675.9	4,796.9	4,779.1	17.84	268.820		
5,100.0	5,026.1	5,000.0	4,999.0	15.8	8.8	166.16	-4,020.6	673.3	4,797.9	4,779.8	18.11	264.966		
5,115.0	5,041.1	5,011.1	5,010.0	15.8	8.8	173.01	-4,020.7	672.8	4,798.0	4,779.8	18.15	264.363		
5,200.0	5,126.1	5,083.9	5,082.8	15.9	8.9	173.05	-4,021.4	669.7	4,798.3	4,779.9	18.42	260.551		
5,300.0	5,226.1	5,212.0	5,210.8	16.0	9.1	173.11	-4,022.4	665.0	4,798.7	4,779.9	18.80	255.187		
5,400.0	5,326.1	5,333.2	5,331.9	16.1	9.4	173.16	-4,022.6	660.7	4,798.4	4,779.3	19.18	250.146		
5,500.0	5,426.1	5,436.0	5,434.6	16.2	9.5	173.21	-4,022.5	656.6	4,797.9	4,778.3	19.53	245.682		
5,600.0	5,526.1	5,519.8	5,518.4	16.3	9.7	173.24	-4,022.6	653.6	4,797.5	4,777.7	19.84	241.781		
5,648.5	5,574.6	5,560.0	5,558.6	16.3	9.8	173.26	-4,022.7	652.2	4,797.5	4,777.5	19.99	239.945		
5,700.0	5,626.1	5,600.0	5,598.5	16.4	9.8	173.28	-4,022.9	650.9	4,797.5	4,777.4	20.15	238.088		
5,800.0	5,726.1	5,695.8	5,694.3	16.5	10.0	173.31	-4,023.4	648.4	4,797.8	4,777.3	20.48	234.211		
5,900.0	5,826.1	5,800.0	5,798.5	16.6	10.2	173.33	-4,024.0	646.2	4,798.1	4,777.2	20.84	230.284		
6,000.0	5,926.1	5,894.8	5,893.2	16.7	10.3	173.36	-4,024.5	644.0	4,798.4	4,777.2	21.17	226.664		
6,100.0	6,026.1	5,997.9	5,996.3	16.8	10.5	173.39	-4,025.1	641.7	4,798.7	4,777.2	21.52	223.004		
6,200.0	6,126.1	6,092.0	6,090.4	16.9	10.7	173.41	-4,025.6	639.8	4,799.0	4,777.2	21.85	219.617		
6,300.0	6,226.1	6,178.1	6,176.5	17.0	10.8	173.43	-4,026.3	638.2	4,799.6	4,777.4	22.17	216.477		
6,400.0	6,326.1	6,267.4	6,265.8	17.2	11.0	173.45	-4,027.2	636.8	4,800.4	4,777.9	22.50	213.386		
6,500.0	6,426.1	6,357.0	6,355.4	17.3	11.2	173.46	-4,028.3	635.7	4,801.4	4,778.6	22.82	210.387		
6,604.7	6,530.8	6,471.9	6,470.3	17.4	11.4	173.48	-4,029.7	634.5	4,802.6	4,779.4	23.20	207.009		
6,650.0	6,576.1	6,541.3	6,539.6	17.4	11.5	-6.52	-4,030.3	633.6	4,801.5	4,778.2	23.31	205.966		
6,700.0	6,625.8	6,600.0	6,598.3	17.4	11.6	-6.56	-4,030.5	633.1	4,796.7	4,773.4	23.33	205.562		
6,750.0	6,675.1	6,646.2	6,644.5	17.3	11.7	-6.65	-4,030.5	632.8	4,788.5	4,765.2	23.26	205.848		
6,800.0	6,723.7	6,680.3	6,678.6	17.2	11.7	-6.77	-4,030.7	632.8	4,777.0	4,753.9	23.10	206.811		
6,850.0	6,771.3	6,732.7	6,731.0	17.1	11.8	-6.94	-4,031.0	632.8	4,762.3	4,739.4	22.90	207.975		
6,900.0	6,817.8	6,800.0	6,798.3	16.9	11.9	-7.17	-4,031.2	632.8	4,744.1	4,721.4	22.66	209.364		
6,950.0	6,862.9	6,841.8	6,840.1	16.7	12.0	-7.44	-4,031.2	633.0	4,722.6	4,700.3	22.32	211.612		
7,000.0	6,906.3	6,877.3	6,875.6	16.4	12.1	-7.78	-4,031.2	633.4	4,698.2	4,676.3	21.91	214.401		
7,050.0	6,948.0	6,918.1	6,916.4	16.1	12.1	-8.20	-4,031.3	634.0	4,670.8	4,649.4	21.47	217.517		
7,100.0	6,987.6	6,969.6	6,967.9	15.9	12.2	-8.73	-4,031.3	634.7	4,640.6	4,619.6	21.02	220.811		
7,150.0	7,024.9	7,019.5	7,017.9	15.6	12.3	-9.37	-4,031.3	635.1	4,607.6	4,587.1	20.53	224.401		
7,200.0	7,059.9	7,068.5	7,066.8	15.3	12.4	-10.17	-4,031.1	635.1	4,572.0	4,552.0	20.04	228.151		
7,250.0	7,092.3	7,108.8	7,107.1	15.0	12.5	-11.14	-4,030.8	635.0	4,534.0	4,514.5	19.54	232.009		
7,300.0	7,121.9	7,135.5	7,133.8	14.7	12.5	-12.33	-4,030.7	634.9	4,493.9	4,474.8	19.06	235.805		
7,350.0	7,148.7	7,159.6	7,157.9	14.4	12.5	-13.85	-4,030.6	634.7	4,451.8	4,433.2	18.63	238.920		
7,400.0	7,172.4	7,181.1	7,179.4	14.2	12.6	-15.83	-4,030.5	634.5	4,408.0	4,389.7	18.31	240.726		
7,450.0	7,193.1	7,200.0	7,198.3	13.9	12.6	-18.50	-4,030.4	634.3	4,362.7	4,344.6	18.16	240.280		
7,500.0	7,210.5	7,219.6	7,217.9	13.8	12.7	-22.31	-4,030.3	634.1	4,316.2	4,297.9	18.28	236.071		
7,550.0	7,224.6	7,235.7	7,234.0	13.6	12.7	-27.94	-4,030.3	633.9	4,268.5	4,249.6	18.87	226.254		
7,600.0	7,235.3	7,247.8	7,246.1	13.5	12.7	-36.81	-4,030.2	633.7	4,220.0	4,199.8	20.22	208.724		
7,650.0	7,242.6	7,256.0	7,254.3	13.5	12.7	-51.58	-4,030.2	633.6	4,170.9	4,148.2	22.70	183.737		
7,700.0	7,246.4	7,260.1	7,258.4	13.5	12.7	-75.44	-4,030.2	633.6	4,121.5	4,095.9	25.59	161.033		
7,729.7	7,247.0	7,260.6	7,258.9	13.6	12.7	-92.94	-4,030.1	633.5	4,092.1	4,065.9	26.13	156.595		
7,800.0	7,247.0	7,260.2	7,258.5	13.7	12.7	-92.90	-4,030.1	633.6	4,022.4	3,996.1	26.31	152.898		
7,900.0	7,247.0	7,259.7	7,258.0	14.2	12.7	-92.84	-4,030.2	633.6	3,923.3	3,896.6	26.74	146.714		
8,000.0	7,247.0	7,259.1	7,257.4	14.8	12.7	-92.78	-4,030.2	633.6	3,824.3	3,797.0	27.37	139.714		
8,100.0	7,247.0	7,258.5	7,256.8	15.6	12.7	-92.72	-4,030.2	633.6	3,725.4	3,697.2	28.18	132.213		
8,200.0	7,247.0	7,258.0	7,256.3	16.5	12.7	-92.66	-4,030.2	633.6	3,626.5	3,597.4	29.13	124.495		
8,300.0	7,247.0	7,257.4	7,255.7	17.6	12.7	-92.60	-4,030.2	633.6	3,527.7	3,497.4	30.21	116.787		
8,400.0	7,247.0	7,256.9	7,255.2	18.8	12.7	-92.55	-4,030.2	633.6	3,428.9	3,397.5	31.38	109.254		
8,500.0	7,247.0	7,256.3	7,254.6	20.1	12.7	-92.49	-4,030.2	633.6	3,330.2	3,297.5	32.65	102.004		
8,600.0	7,247.0	7,255.8	7,254.1	21.4	12.7	-92.43	-4,030.2	633.6	3,231.6	3,197.6	33.98	95.101		
8,700.0	7,247.0	7,255.3	7,253.6	22.8	12.7	-92.37	-4,030.2	633.6	3,133.1	3,097.7	35.37	88.579		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 44-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 100-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,800.0	7,247.0	7,254.7	7,253.0	24.2	12.7	-92.32	-4,030.2	633.6	3,034.6	2,997.8	36.81	82.446		
8,900.0	7,247.0	7,254.2	7,252.5	25.7	12.7	-92.26	-4,030.2	633.6	2,936.3	2,898.0	38.28	76.698		
9,000.0	7,247.0	7,253.6	7,252.0	27.2	12.7	-92.21	-4,030.2	633.6	2,838.1	2,798.3	39.79	71.320		
9,100.0	7,247.0	7,253.1	7,251.4	28.7	12.7	-92.15	-4,030.2	633.7	2,740.0	2,698.7	41.33	66.294		
9,200.0	7,247.0	7,252.6	7,250.9	30.3	12.7	-92.09	-4,030.2	633.7	2,642.1	2,599.2	42.89	61.599		
9,300.0	7,247.0	7,252.1	7,250.4	31.9	12.7	-92.04	-4,030.2	633.7	2,544.3	2,499.9	44.47	57.210		
9,400.0	7,247.0	7,251.6	7,249.9	33.5	12.7	-91.99	-4,030.2	633.7	2,446.7	2,400.7	46.07	53.107		
9,500.0	7,247.0	7,251.0	7,249.3	35.1	12.7	-91.93	-4,030.2	633.7	2,349.4	2,301.7	47.68	49.268		
9,600.0	7,247.0	7,250.5	7,248.8	36.7	12.7	-91.88	-4,030.2	633.7	2,252.2	2,202.9	49.31	45.673		
9,700.0	7,247.0	7,250.0	7,248.3	38.3	12.7	-91.82	-4,030.2	633.7	2,155.3	2,104.4	50.95	42.304		
9,800.0	7,247.0	7,249.5	7,247.8	40.0	12.7	-91.77	-4,030.2	633.7	2,058.7	2,006.1	52.60	39.142		
9,900.0	7,247.0	7,249.0	7,247.3	41.6	12.7	-91.72	-4,030.2	633.7	1,962.4	1,908.2	54.25	36.173		
10,000.0	7,247.0	7,248.5	7,246.8	43.3	12.7	-91.66	-4,030.2	633.7	1,866.6	1,810.7	55.92	33.382		
10,100.0	7,247.0	7,248.0	7,246.3	45.0	12.7	-91.61	-4,030.2	633.7	1,771.2	1,713.6	57.59	30.757		
10,200.0	7,247.0	7,247.5	7,245.8	46.6	12.7	-91.56	-4,030.2	633.7	1,676.3	1,617.0	59.26	28.285		
10,300.0	7,247.0	7,247.0	7,245.3	48.3	12.7	-91.51	-4,030.2	633.7	1,582.0	1,521.1	60.95	25.958		
10,400.0	7,247.0	7,246.5	7,244.8	50.0	12.7	-91.45	-4,030.2	633.7	1,488.5	1,425.9	62.63	23.766		
10,500.0	7,247.0	7,246.0	7,244.3	51.7	12.7	-91.40	-4,030.2	633.8	1,396.0	1,331.6	64.32	21.702		
10,600.0	7,247.0	7,245.5	7,243.8	53.4	12.7	-91.35	-4,030.2	633.8	1,304.5	1,238.4	66.02	19.758		
10,700.0	7,247.0	7,245.0	7,243.4	55.1	12.7	-91.30	-4,030.2	633.8	1,214.3	1,146.6	67.72	17.931		
10,800.0	7,247.0	7,244.6	7,242.9	56.8	12.7	-91.25	-4,030.2	633.8	1,125.8	1,056.4	69.42	16.217		
10,900.0	7,247.0	7,244.1	7,242.4	58.5	12.7	-91.20	-4,030.2	633.8	1,039.4	968.3	71.13	14.613		
11,000.0	7,247.0	7,243.6	7,241.9	60.2	12.7	-91.15	-4,030.2	633.8	955.7	882.8	72.84	13.121		
11,100.0	7,247.0	7,243.1	7,241.4	61.9	12.7	-91.10	-4,030.2	633.8	875.3	800.8	74.55	11.742		
11,200.0	7,247.0	7,242.7	7,241.0	63.6	12.7	-91.05	-4,030.2	633.8	799.5	723.2	76.26	10.483		
11,300.0	7,247.0	7,242.2	7,240.5	65.4	12.7	-91.00	-4,030.2	633.8	729.4	651.4	77.98	9.354		
11,400.0	7,247.0	7,241.7	7,240.0	67.1	12.7	-90.95	-4,030.2	633.8	667.1	587.4	79.69	8.370		
11,500.0	7,247.0	7,241.2	7,239.6	68.8	12.7	-90.90	-4,030.2	633.8	614.7	533.3	81.41	7.550		
11,600.0	7,247.0	7,240.8	7,239.1	70.5	12.7	-90.85	-4,030.2	633.8	575.1	492.0	83.14	6.918		
11,700.0	7,247.0	7,240.3	7,238.6	72.2	12.7	-90.80	-4,030.2	633.8	551.1	466.2	84.86	6.494		
11,785.4	7,247.0	7,239.9	7,238.2	73.7	12.7	-90.76	-4,030.2	633.8	544.4	458.1	86.33	6.306 CC		
11,800.0	7,247.0	7,239.9	7,238.2	74.0	12.7	-90.76	-4,030.2	633.8	544.6	458.0	86.58	6.290 ES		
11,816.8	7,247.0	7,239.8	7,238.1	74.2	12.7	-90.75	-4,030.2	633.8	545.3	458.5	86.87	6.277 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-0-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 94-Gyro													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	8.1	8.1	0.0	0.0	125.50	-273.2	382.9	470.4					
100.0	100.0	117.7	117.7	0.2	0.1	125.43	-271.6	381.8	468.7	468.4	0.24	1,918.128		
200.0	200.0	211.4	211.4	0.3	0.2	125.20	-269.2	381.7	467.1	466.6	0.50	926.971		
300.0	300.0	307.4	307.3	0.5	0.3	124.75	-266.0	383.4	466.6	465.9	0.77	606.616		
311.4	311.4	318.5	318.4	0.5	0.3	124.69	-265.6	383.7	466.6	465.8	0.80	583.151		
400.0	400.0	406.6	406.3	0.7	0.4	123.99	-261.0	387.0	466.8	465.8	1.05	445.187		
500.0	500.0	514.2	513.3	0.8	0.5	122.67	-251.8	392.7	466.5	465.1	1.36	343.550		
600.0	600.0	629.2	627.1	1.0	0.7	113.96	-236.4	398.5	464.1	462.4	1.70	273.088		
700.0	700.0	750.5	746.5	1.2	0.9	111.86	-215.0	401.7	458.6	456.5	2.08	220.614		
800.0	799.9	869.1	862.4	1.4	1.1	109.79	-190.1	401.1	449.9	447.4	2.47	182.032		
900.0	899.7	987.3	977.4	1.6	1.4	107.98	-163.3	395.0	437.1	434.3	2.88	152.009		
1,000.0	999.4	1,095.9	1,082.6	1.8	1.6	106.56	-137.9	386.3	422.4	419.2	3.28	128.851		
1,100.0	1,098.9	1,209.8	1,192.5	2.0	1.8	105.37	-110.9	373.4	405.4	401.7	3.70	109.482		
1,200.0	1,198.3	1,320.2	1,298.2	2.2	2.1	104.44	-83.6	357.1	385.2	381.1	4.14	93.097		
1,300.0	1,297.4	1,420.2	1,393.6	2.5	2.4	103.87	-58.7	340.3	363.7	359.1	4.58	79.496		
1,400.0	1,396.3	1,521.9	1,490.4	2.8	2.6	103.46	-33.0	322.6	341.9	336.9	5.04	67.838		
1,500.0	1,494.9	1,622.3	1,585.6	3.1	2.9	103.22	-6.8	304.3	319.5	314.0	5.53	57.764		
1,600.0	1,593.3	1,721.6	1,679.3	3.4	3.2	103.02	20.4	285.8	296.7	290.6	6.06	48.988		
1,700.0	1,691.2	1,817.7	1,769.9	3.8	3.5	103.07	47.0	268.1	274.2	267.6	6.59	41.620		
1,800.0	1,788.9	1,913.8	1,860.9	4.2	3.7	103.78	72.1	250.2	252.6	245.5	7.11	35.528		
1,900.0	1,886.3	2,008.8	1,951.4	4.6	4.0	104.96	95.3	233.0	232.3	224.7	7.60	30.560		
2,000.0	1,983.7	2,106.7	2,044.8	5.0	4.2	106.40	119.1	215.5	212.4	204.3	8.08	26.279		
2,100.0	2,081.2	2,202.3	2,136.0	5.4	4.5	108.01	142.3	199.1	193.3	184.8	8.54	22.643		
2,200.0	2,178.6	2,298.6	2,228.3	5.8	4.7	110.04	165.1	183.6	175.7	166.7	8.95	19.632		
2,300.0	2,276.1	2,395.7	2,321.5	6.2	5.0	112.61	187.6	168.3	158.9	149.6	9.30	17.082		
2,400.0	2,373.5	2,493.2	2,415.4	6.6	5.2	115.71	209.7	154.1	143.7	134.1	9.58	14.994		
2,500.0	2,470.9	2,592.7	2,510.9	7.0	5.5	119.26	233.4	139.4	128.3	118.5	9.79	13.105		
2,600.0	2,568.4	2,689.8	2,604.3	7.4	5.7	124.24	255.2	124.7	113.9	104.1	9.80	11.624		
2,700.0	2,665.8	2,787.7	2,698.9	7.8	6.0	130.88	276.1	110.3	101.9	92.3	9.59	10.626		
2,800.0	2,763.2	2,887.4	2,795.1	8.3	6.2	138.77	298.3	95.9	91.1	81.8	9.26	9.833		
2,900.0	2,860.7	2,986.7	2,890.4	8.7	6.5	148.79	321.5	80.7	80.9	72.0	8.90	9.089		
3,000.0	2,958.1	3,086.4	2,985.8	9.1	6.7	161.20	345.9	65.1	72.7	63.8	8.90	8.169		
3,100.0	3,055.6	3,184.7	3,079.5	9.5	7.0	175.91	371.3	49.4	67.1	57.5	9.65	6.957		
3,159.3	3,113.4	3,243.2	3,135.2	9.8	7.2	-174.57	386.3	40.1	66.3	55.8	10.58	6.274 CC		
3,200.0	3,153.0	3,283.4	3,173.5	10.0	7.3	-167.95	396.8	33.6	66.7	55.3	11.41	5.847 ES		
3,300.0	3,250.4	3,380.9	3,266.4	10.4	7.6	-153.10	422.0	18.3	71.4	57.7	13.66	5.225		
3,400.0	3,347.9	3,478.3	3,359.7	10.8	7.8	-141.82	445.5	3.2	81.4	65.8	15.59	5.219 SF		
3,500.0	3,445.3	3,577.8	3,455.0	11.2	8.1	-132.98	469.6	-12.1	93.7	76.6	17.15	5.465		
3,600.0	3,542.7	3,675.0	3,548.1	11.7	8.3	-126.29	493.5	-27.2	107.7	89.3	18.37	5.863		
3,700.0	3,640.2	3,772.5	3,641.7	12.1	8.6	-121.86	515.7	-42.4	123.7	104.4	19.32	6.402		
3,800.0	3,737.6	3,871.9	3,737.3	12.5	8.8	-118.32	538.6	-57.7	139.9	119.7	20.18	6.935		
3,815.0	3,752.2	3,886.4	3,751.1	12.6	8.9	-117.83	542.0	-60.0	142.4	122.1	20.30	7.014		
3,900.0	3,835.2	3,968.9	3,830.3	12.9	9.1	-115.31	561.3	-73.2	156.7	135.7	20.95	7.479		
4,000.0	3,933.1	4,070.4	3,927.8	13.3	9.3	-112.41	585.0	-88.3	172.1	150.5	21.67	7.943		
4,100.0	4,031.4	4,167.7	4,021.9	13.6	9.6	-110.29	605.7	-102.1	187.2	164.9	22.28	8.403		
4,200.0	4,130.0	4,268.1	4,119.7	14.0	9.8	-109.01	623.6	-115.4	201.8	179.0	22.81	8.845		
4,300.0	4,228.9	4,369.1	4,218.5	14.3	10.0	-107.75	640.8	-127.5	214.8	191.5	23.31	9.216		
4,400.0	4,328.0	4,469.3	4,316.8	14.6	10.1	-106.43	657.1	-138.8	226.9	203.1	23.76	9.548		
4,500.0	4,427.3	4,574.8	4,420.7	14.8	10.3	-105.38	672.0	-149.0	237.5	213.3	24.16	9.828		
4,600.0	4,526.8	4,680.0	4,525.2	15.0	10.4	-105.03	682.9	-155.2	244.4	219.9	24.50	9.973		
4,700.0	4,626.5	4,776.5	4,621.3	15.2	10.5	-105.48	688.2	-159.8	250.4	225.6	24.76	10.113		
4,800.0	4,726.3	4,881.9	4,726.6	15.4	10.6	-106.58	689.3	-164.5	256.4	231.4	24.99	10.259		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-0-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 94-Gyro													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		
4,900.0	4,826.2	4,990.1	4,834.8	15.6	10.6	-107.13	691.5	-165.9	258.6	233.4	25.19	10.266		
5,000.0	4,926.1	5,090.1	4,934.8	15.7	10.6	-107.94	690.7	-165.1	258.8	233.5	25.33	10.218		
5,100.0	5,026.1	5,190.7	5,035.4	15.8	10.6	-108.60	689.0	-163.9	258.4	232.9	25.45	10.152		
5,115.0	5,041.1	5,205.6	5,050.3	15.8	10.6	-101.81	688.8	-163.7	258.3	232.8	25.47	10.140		
5,200.0	5,126.1	5,290.2	5,134.8	15.9	10.7	-102.23	687.1	-162.7	257.6	232.1	25.57	10.076		
5,300.0	5,226.1	5,390.3	5,234.9	16.0	10.7	-102.51	686.0	-161.8	257.0	231.3	25.70	9.998		
5,400.0	5,326.1	5,490.5	5,335.1	16.1	10.7	-102.72	685.2	-160.8	256.2	230.4	25.83	9.918		
5,500.0	5,426.1	5,591.1	5,435.7	16.2	10.8	-103.02	684.1	-159.7	255.4	229.4	25.96	9.835		
5,600.0	5,526.1	5,689.8	5,534.4	16.3	10.8	-103.36	682.9	-158.4	254.4	228.3	26.10	9.748		
5,635.7	5,561.8	5,724.2	5,568.8	16.3	10.8	-103.45	682.5	-158.2	254.3	228.2	26.15	9.726		
5,700.0	5,626.1	5,788.4	5,633.0	16.4	10.8	-103.60	681.8	-158.1	254.4	228.1	26.23	9.697		
5,800.0	5,726.1	5,888.8	5,733.4	16.5	10.8	-103.99	680.2	-157.7	254.3	228.0	26.36	9.648		
5,900.0	5,826.1	5,989.9	5,834.5	16.6	10.9	-104.47	678.2	-156.9	254.1	227.6	26.49	9.592		
6,000.0	5,926.1	6,091.4	5,935.9	16.7	10.9	-105.18	675.3	-155.3	253.2	226.6	26.59	9.522		
6,100.0	6,026.1	6,190.6	6,035.1	16.8	10.9	-106.06	671.9	-153.3	252.2	225.5	26.70	9.447		
6,200.0	6,126.1	6,289.0	6,133.3	16.9	10.9	-106.53	670.0	-152.3	251.8	224.9	26.84	9.381		
6,300.0	6,226.1	6,389.1	6,233.5	17.0	11.0	-106.52	670.1	-152.2	251.7	224.7	27.00	9.320		
6,361.9	6,288.0	6,450.6	6,295.0	17.1	11.0	-106.49	670.2	-152.2	251.6	224.5	27.10	9.283		
6,400.0	6,326.1	6,488.4	6,332.8	17.2	11.0	-106.47	670.3	-152.2	251.6	224.5	27.17	9.262		
6,500.0	6,426.1	6,588.2	6,432.6	17.3	11.1	-106.42	670.5	-152.4	251.8	224.4	27.34	9.210		
6,604.7	6,530.8	6,691.5	6,535.9	17.4	11.1	-106.38	670.5	-152.9	252.3	224.8	27.51	9.170		
6,650.0	6,576.1	6,736.2	6,580.6	17.4	11.1	73.90	670.2	-153.3	252.3	224.7	27.55	9.156		
6,700.0	6,625.8	6,785.6	6,630.0	17.4	11.2	74.94	669.8	-153.7	251.5	223.9	27.57	9.120		
6,750.0	6,675.1	6,834.8	6,679.2	17.3	11.2	76.82	669.4	-154.2	250.0	222.4	27.57	9.069		
6,800.0	6,723.7	6,883.3	6,727.7	17.2	11.2	79.53	669.2	-154.7	248.1	220.6	27.51	9.021		
6,850.0	6,771.3	6,931.1	6,775.4	17.1	11.2	82.96	669.0	-155.3	246.3	219.0	27.37	9.002		
6,900.0	6,817.8	6,977.6	6,822.0	16.9	11.2	87.00	668.8	-155.8	245.2	218.1	27.13	9.041		
6,916.6	6,832.9	6,992.7	6,837.1	16.8	11.3	88.44	668.7	-156.0	245.2	218.1	27.02	9.074		
6,950.0	6,862.9	7,022.7	6,867.1	16.7	11.3	91.48	668.6	-156.3	245.6	218.8	26.77	9.175		
7,000.0	6,906.3	7,066.2	6,910.6	16.4	11.3	96.22	668.5	-156.8	248.2	221.9	26.28	9.442		
7,050.0	6,948.0	7,108.1	6,952.4	16.1	11.3	100.99	668.3	-157.3	253.8	228.1	25.70	9.876		
7,100.0	6,987.6	7,147.9	6,992.3	15.9	11.3	105.54	668.1	-157.8	263.1	238.1	25.04	10.506		
7,150.0	7,024.9	7,185.5	7,029.8	15.6	11.3	109.67	667.9	-158.2	276.6	252.3	24.37	11.350		
7,200.0	7,059.9	7,220.6	7,064.9	15.3	11.4	113.22	667.9	-158.5	294.6	270.9	23.74	12.413		
7,250.0	7,092.3	7,252.9	7,097.3	15.0	11.4	116.06	667.8	-158.8	317.1	293.9	23.17	13.684		
7,300.0	7,121.9	7,282.5	7,126.8	14.7	11.4	118.13	667.8	-159.0	343.8	321.1	22.71	15.139		
7,350.0	7,148.7	7,309.1	7,153.4	14.4	11.4	119.37	667.8	-159.3	374.4	352.1	22.37	16.736		
7,400.0	7,172.4	7,332.7	7,177.0	14.2	11.4	119.72	667.8	-159.5	408.5	386.4	22.18	18.421		
7,450.0	7,193.1	7,353.2	7,197.6	13.9	11.4	119.10	667.8	-159.6	445.6	423.5	22.13	20.134		
7,500.0	7,210.5	7,370.5	7,214.9	13.8	11.4	117.37	667.8	-159.8	485.3	463.1	22.25	21.808		
7,550.0	7,224.6	7,384.5	7,228.9	13.6	11.5	114.36	667.9	-159.9	527.1	504.6	22.54	23.389		
7,600.0	7,235.3	7,395.1	7,239.5	13.5	11.5	109.81	667.9	-160.0	570.7	547.7	22.96	24.856		
7,650.0	7,242.6	7,402.3	7,246.7	13.5	11.5	103.46	667.9	-160.1	615.6	592.2	23.44	26.259		
7,700.0	7,246.4	7,406.1	7,250.4	13.5	11.5	95.14	667.9	-160.1	661.5	637.7	23.83	27.760		
7,729.7	7,247.0	7,406.6	7,251.0	13.6	11.5	89.31	667.9	-160.1	689.1	665.2	23.92	28.810		
7,800.0	7,247.0	7,406.5	7,250.9	13.7	11.5	89.28	667.9	-160.1	755.1	731.0	24.09	31.338		
7,900.0	7,247.0	7,406.4	7,250.7	14.2	11.5	89.25	667.9	-160.1	850.1	825.6	24.53	34.658		
8,000.0	7,247.0	7,406.3	7,250.6	14.8	11.5	89.22	667.9	-160.1	946.2	921.0	25.16	37.606		
8,100.0	7,247.0	7,406.1	7,250.5	15.6	11.5	89.19	667.9	-160.1	1,043.0	1,017.0	25.97	40.168		
8,200.0	7,247.0	7,406.0	7,250.3	16.5	11.5	89.16	667.9	-160.1	1,140.3	1,113.4	26.92	42.363		
8,300.0	7,247.0	7,405.9	7,250.2	17.6	11.5	89.13	667.9	-160.1	1,238.1	1,210.1	28.00	44.226		
8,400.0	7,247.0	7,405.7	7,250.1	18.8	11.5	89.10	667.9	-160.1	1,336.2	1,307.0	29.17	45.800		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-0-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 94-Gyro													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		
8,500.0	7,247.0	7,405.6	7,249.9	20.1	11.5	89.07	667.9	-160.1	1,434.6	1,404.1	30.44	47.130		
8,600.0	7,247.0	7,405.5	7,249.8	21.4	11.5	89.04	667.9	-160.1	1,533.2	1,501.4	31.77	48.255		
8,700.0	7,247.0	7,405.3	7,249.7	22.8	11.5	89.00	667.9	-160.1	1,631.9	1,598.7	33.16	49.210		
8,800.0	7,247.0	7,405.2	7,249.5	24.2	11.5	88.97	667.9	-160.1	1,730.8	1,696.2	34.60	50.023		
8,900.0	7,247.0	7,405.1	7,249.4	25.7	11.5	88.94	667.9	-160.1	1,829.8	1,793.7	36.08	50.720		
9,000.0	7,247.0	7,404.9	7,249.3	27.2	11.5	88.91	667.9	-160.1	1,928.9	1,891.3	37.59	51.319		
9,100.0	7,247.0	7,404.8	7,249.1	28.7	11.5	88.88	667.9	-160.1	2,028.1	1,989.0	39.12	51.838		
9,200.0	7,247.0	7,404.7	7,249.0	30.3	11.5	88.85	667.9	-160.1	2,127.4	2,086.7	40.69	52.289		
9,300.0	7,247.0	7,404.5	7,248.9	31.9	11.5	88.82	667.9	-160.1	2,226.8	2,184.5	42.27	52.684		
9,400.0	7,247.0	7,404.4	7,248.7	33.5	11.5	88.79	667.9	-160.1	2,326.2	2,282.3	43.86	53.030		
9,500.0	7,247.0	7,404.3	7,248.6	35.1	11.5	88.76	667.9	-160.1	2,425.6	2,380.1	45.48	53.336		
9,600.0	7,247.0	7,404.1	7,248.5	36.7	11.5	88.73	667.9	-160.1	2,525.1	2,478.0	47.10	53.607		
9,700.0	7,247.0	7,404.0	7,248.3	38.3	11.5	88.70	667.9	-160.1	2,624.6	2,575.9	48.74	53.849		
9,800.0	7,247.0	7,403.9	7,248.2	40.0	11.5	88.67	667.9	-160.1	2,724.2	2,673.8	50.39	54.065		
9,900.0	7,247.0	7,403.7	7,248.1	41.6	11.5	88.64	667.9	-160.1	2,823.8	2,771.7	52.04	54.259		
10,000.0	7,247.0	7,403.6	7,248.0	43.3	11.5	88.61	667.9	-160.1	2,923.4	2,869.7	53.71	54.434		
10,100.0	7,247.0	7,403.5	7,247.8	45.0	11.5	88.58	667.9	-160.1	3,023.1	2,967.7	55.38	54.592		
10,200.0	7,247.0	7,403.3	7,247.7	46.6	11.5	88.55	667.9	-160.1	3,122.7	3,065.7	57.05	54.735		
10,300.0	7,247.0	7,403.2	7,247.6	48.3	11.5	88.52	667.9	-160.1	3,222.4	3,163.7	58.73	54.866		
10,400.0	7,247.0	7,403.1	7,247.4	50.0	11.5	88.49	667.9	-160.1	3,322.1	3,261.7	60.42	54.985		
10,500.0	7,247.0	7,403.0	7,247.3	51.7	11.5	88.46	667.9	-160.1	3,421.9	3,359.7	62.11	55.094		
10,600.0	7,247.0	7,402.8	7,247.2	53.4	11.5	88.43	667.9	-160.1	3,521.6	3,457.8	63.80	55.194		
10,700.0	7,247.0	7,402.7	7,247.0	55.1	11.5	88.40	667.9	-160.1	3,621.4	3,555.8	65.50	55.286		
10,800.0	7,247.0	7,402.6	7,246.9	56.8	11.5	88.37	667.9	-160.1	3,721.1	3,653.9	67.20	55.371		
10,900.0	7,247.0	7,402.4	7,246.8	58.5	11.5	88.34	667.9	-160.1	3,820.9	3,752.0	68.91	55.450		
11,000.0	7,247.0	7,402.3	7,246.7	60.2	11.5	88.31	667.9	-160.1	3,920.7	3,850.1	70.61	55.523		
11,100.0	7,247.0	7,402.2	7,246.5	61.9	11.5	88.28	667.9	-160.1	4,020.5	3,948.2	72.32	55.590		
11,200.0	7,247.0	7,402.0	7,246.4	63.6	11.5	88.25	667.9	-160.1	4,120.3	4,046.3	74.04	55.653		
11,300.0	7,247.0	7,401.9	7,246.3	65.4	11.5	88.22	667.9	-160.1	4,220.1	4,144.4	75.75	55.712		
11,400.0	7,247.0	7,401.8	7,246.1	67.1	11.5	88.19	667.9	-160.1	4,320.0	4,242.5	77.46	55.767		
11,500.0	7,247.0	7,401.7	7,246.0	68.8	11.5	88.16	667.9	-160.1	4,419.8	4,340.6	79.18	55.818		
11,600.0	7,247.0	7,401.5	7,245.9	70.5	11.5	88.13	667.9	-160.1	4,519.6	4,438.7	80.90	55.866		
11,700.0	7,247.0	7,401.4	7,245.8	72.2	11.5	88.10	667.9	-160.1	4,619.5	4,536.9	82.62	55.911		
11,800.0	7,247.0	7,401.3	7,245.6	74.0	11.5	88.07	667.9	-160.1	4,719.3	4,635.0	84.34	55.954		
11,816.8	7,247.0	7,401.3	7,245.6	74.2	11.5	88.07	667.9	-160.1	4,736.2	4,651.5	84.63	55.961		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-4-10 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: O-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	179.66	-1,872.4	11.2	1,872.5						
100.0	100.0	84.0	84.0	0.2	0.1	179.66	-1,872.4	11.2	1,872.4	1,872.1	0.30	6,273.122			
200.0	200.0	184.0	184.0	0.3	0.3	179.66	-1,872.4	11.2	1,872.4	1,871.8	0.65	2,891.696			
300.0	300.0	284.0	284.0	0.5	0.5	179.66	-1,872.4	11.2	1,872.4	1,871.4	1.00	1,878.843			
400.0	400.0	384.0	384.0	0.7	0.7	179.66	-1,872.4	11.2	1,872.4	1,871.1	1.35	1,391.465			
500.0	500.0	484.0	484.0	0.8	0.8	179.66	-1,872.4	11.2	1,872.4	1,870.7	1.69	1,104.860			
600.0	600.0	584.0	584.0	1.0	1.0	172.81	-1,872.4	11.2	1,873.3	1,871.2	2.04	916.669			
700.0	700.0	684.0	684.0	1.2	1.2	172.82	-1,872.4	11.2	1,875.9	1,873.5	2.39	784.241			
800.0	799.9	783.9	783.9	1.4	1.4	172.83	-1,872.4	11.2	1,880.2	1,877.5	2.74	686.265			
900.0	899.7	883.7	883.7	1.6	1.5	172.84	-1,872.4	11.2	1,886.3	1,883.2	3.09	611.063			
1,000.0	999.4	983.4	983.4	1.8	1.7	172.86	-1,872.4	11.2	1,894.1	1,890.6	3.43	551.699			
1,100.0	1,098.9	1,082.9	1,082.9	2.0	1.9	172.89	-1,872.4	11.2	1,903.6	1,899.8	3.78	503.795			
1,200.0	1,198.3	1,182.3	1,182.3	2.2	2.1	172.92	-1,872.4	11.2	1,914.8	1,910.7	4.12	464.451			
1,300.0	1,297.4	1,281.4	1,281.4	2.5	2.2	172.95	-1,872.4	11.2	1,927.8	1,923.3	4.47	431.672			
1,400.0	1,396.3	1,380.3	1,380.3	2.8	2.4	172.98	-1,872.4	11.2	1,942.4	1,937.6	4.81	404.036			
1,500.0	1,494.9	1,478.9	1,478.9	3.1	2.6	173.02	-1,872.4	11.2	1,958.8	1,953.7	5.15	380.507			
1,600.0	1,593.3	1,577.3	1,577.3	3.4	2.8	173.06	-1,872.4	11.2	1,976.9	1,971.4	5.49	360.310			
1,700.0	1,691.2	1,675.2	1,675.2	3.8	2.9	173.11	-1,872.4	11.2	1,996.7	1,990.9	5.82	342.854			
1,800.0	1,788.9	1,772.9	1,772.9	4.2	3.1	173.16	-1,872.4	11.2	2,018.2	2,012.0	6.16	327.681			
1,900.0	1,886.3	1,870.3	1,870.3	4.6	3.3	173.23	-1,872.4	11.2	2,040.5	2,034.0	6.51	313.629			
2,000.0	1,983.7	1,967.7	1,967.7	5.0	3.4	173.30	-1,872.4	11.2	2,062.9	2,056.0	6.85	301.003			
2,100.0	2,081.2	2,065.2	2,065.2	5.4	3.6	173.38	-1,872.4	11.2	2,085.2	2,078.0	7.20	289.597			
2,200.0	2,178.6	2,162.6	2,162.6	5.8	3.8	173.45	-1,872.4	11.2	2,107.6	2,100.1	7.55	279.244			
2,300.0	2,276.1	2,260.1	2,260.1	6.2	3.9	173.52	-1,872.4	11.2	2,130.0	2,122.1	7.89	269.804			
2,400.0	2,373.5	2,357.5	2,357.5	6.6	4.1	173.58	-1,872.4	11.2	2,152.3	2,144.1	8.24	261.162			
2,500.0	2,470.9	2,454.9	2,454.9	7.0	4.3	173.65	-1,872.4	11.2	2,174.7	2,166.1	8.59	253.222			
2,600.0	2,568.4	2,552.4	2,552.4	7.4	4.5	173.72	-1,872.4	11.2	2,197.0	2,188.1	8.93	245.901			
2,700.0	2,665.8	2,649.8	2,649.8	7.8	4.6	173.78	-1,872.4	11.2	2,219.4	2,210.1	9.28	239.131			
2,800.0	2,763.2	2,747.2	2,747.2	8.3	4.8	173.84	-1,872.4	11.2	2,241.8	2,232.2	9.63	232.850			
2,900.0	2,860.7	2,844.7	2,844.7	8.7	5.0	173.90	-1,872.4	11.2	2,264.2	2,254.2	9.97	227.009			
3,000.0	2,958.1	2,942.1	2,942.1	9.1	5.1	173.96	-1,872.4	11.2	2,286.5	2,276.2	10.32	221.562			
3,100.0	3,055.6	3,039.6	3,039.6	9.5	5.3	174.02	-1,872.4	11.2	2,308.9	2,298.2	10.67	216.471			
3,200.0	3,153.0	3,137.0	3,137.0	10.0	5.5	174.08	-1,872.4	11.2	2,331.3	2,320.3	11.01	211.702			
3,300.0	3,250.4	3,234.4	3,234.4	10.4	5.6	174.13	-1,872.4	11.2	2,353.7	2,342.3	11.36	207.226			
3,400.0	3,347.9	3,331.9	3,331.9	10.8	5.8	174.19	-1,872.4	11.2	2,376.1	2,364.3	11.70	203.017			
3,500.0	3,445.3	3,429.3	3,429.3	11.2	6.0	174.24	-1,872.4	11.2	2,398.4	2,386.4	12.05	199.051			
3,600.0	3,542.7	3,526.7	3,526.7	11.7	6.2	174.30	-1,872.4	11.2	2,420.8	2,408.4	12.39	195.308			
3,700.0	3,640.2	3,624.2	3,624.2	12.1	6.3	174.35	-1,872.4	11.2	2,443.2	2,430.5	12.74	191.769			
3,800.0	3,737.6	3,721.6	3,721.6	12.5	6.5	174.40	-1,872.4	11.2	2,465.6	2,452.5	13.09	188.419			
3,815.0	3,752.2	3,736.2	3,736.2	12.6	6.5	174.41	-1,872.4	11.2	2,469.0	2,455.8	13.14	187.932			
3,900.0	3,835.2	3,819.2	3,819.2	12.9	6.7	174.47	-1,872.4	11.2	2,487.4	2,473.9	13.45	184.957			
4,000.0	3,933.1	3,917.1	3,917.1	13.3	6.8	174.53	-1,872.4	11.2	2,507.5	2,493.7	13.81	181.537			
4,100.0	4,031.4	4,015.4	4,015.4	13.6	7.0	174.59	-1,872.4	11.2	2,525.9	2,511.7	14.17	178.196			
4,200.0	4,130.0	4,114.0	4,114.0	14.0	7.2	174.64	-1,872.4	11.2	2,542.6	2,528.1	14.54	174.929			
4,300.0	4,228.9	4,212.9	4,212.9	14.3	7.4	174.69	-1,872.4	11.2	2,557.6	2,542.7	14.89	171.729			
4,400.0	4,328.0	4,312.0	4,312.0	14.6	7.5	174.73	-1,872.4	11.2	2,570.8	2,555.6	15.25	168.593			
4,500.0	4,427.3	4,411.3	4,411.3	14.8	7.7	174.76	-1,872.4	11.2	2,582.4	2,566.8	15.60	165.516			
4,600.0	4,526.8	4,510.8	4,510.8	15.0	7.9	174.79	-1,872.4	11.2	2,592.2	2,576.2	15.95	162.493			
4,700.0	4,626.5	4,610.5	4,610.5	15.2	8.0	174.81	-1,872.4	11.2	2,600.2	2,583.9	16.30	159.521			
4,800.0	4,726.3	4,710.3	4,710.3	15.4	8.2	174.83	-1,872.4	11.2	2,606.6	2,589.9	16.65	156.596			
4,900.0	4,826.2	4,810.2	4,810.2	15.6	8.4	174.85	-1,872.4	11.2	2,611.2	2,594.2	16.99	153.716			
5,000.0	4,926.1	4,910.1	4,910.1	15.7	8.6	174.85	-1,872.4	11.2	2,614.0	2,596.7	17.33	150.877			

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-4-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	5,010.1	5,010.1	15.8	8.7	174.86	-1,872.4	11.2	2,615.2	2,597.5	17.66	148.077		
5,115.0	5,041.1	5,025.1	5,025.1	15.8	8.8	-178.29	-1,872.4	11.2	2,615.2	2,597.5	17.71	147.661		
5,200.0	5,126.1	5,110.1	5,110.1	15.9	8.9	-178.29	-1,872.4	11.2	2,615.2	2,597.2	18.01	145.232		
5,300.0	5,226.1	5,210.1	5,210.1	16.0	9.1	-178.29	-1,872.4	11.2	2,615.2	2,596.8	18.36	142.476		
5,400.0	5,326.1	5,310.1	5,310.1	16.1	9.3	-178.29	-1,872.4	11.2	2,615.2	2,596.5	18.70	139.821		
5,500.0	5,426.1	5,410.1	5,410.1	16.2	9.4	-178.29	-1,872.4	11.2	2,615.2	2,596.1	19.05	137.264		
5,600.0	5,526.1	5,510.1	5,510.1	16.3	9.6	-178.29	-1,872.4	11.2	2,615.2	2,595.8	19.40	134.799		
5,700.0	5,626.1	5,610.1	5,610.1	16.4	9.8	-178.29	-1,872.4	11.2	2,615.2	2,595.4	19.75	132.420		
5,800.0	5,726.1	5,710.1	5,710.1	16.5	10.0	-178.29	-1,872.4	11.2	2,615.2	2,595.1	20.10	130.124		
5,900.0	5,826.1	5,810.1	5,810.1	16.6	10.1	-178.29	-1,872.4	11.2	2,615.2	2,594.7	20.45	127.906		
6,000.0	5,926.1	5,910.1	5,910.1	16.7	10.3	-178.29	-1,872.4	11.2	2,615.2	2,594.4	20.79	125.762		
6,100.0	6,026.1	6,010.1	6,010.1	16.8	10.5	-178.29	-1,872.4	11.2	2,615.2	2,594.0	21.14	123.688		
6,200.0	6,126.1	6,110.1	6,110.1	16.9	10.7	-178.29	-1,872.4	11.2	2,615.2	2,593.7	21.49	121.682		
6,300.0	6,226.1	6,210.1	6,210.1	17.0	10.8	-178.29	-1,872.4	11.2	2,615.2	2,593.4	21.84	119.740		
6,400.0	6,326.1	6,310.1	6,310.1	17.2	11.0	-178.29	-1,872.4	11.2	2,615.2	2,593.0	22.19	117.859		
6,500.0	6,426.1	6,410.1	6,410.1	17.3	11.2	-178.29	-1,872.4	11.2	2,615.2	2,592.7	22.54	116.036		
6,604.7	6,530.8	6,514.8	6,514.8	17.4	11.4	-178.29	-1,872.4	11.2	2,615.2	2,592.3	22.90	114.186		
6,650.0	6,576.1	6,560.1	6,560.1	17.4	11.4	1.72	-1,872.4	11.2	2,613.8	2,590.8	22.98	113.764		
6,700.0	6,625.8	6,609.8	6,609.8	17.4	11.5	1.73	-1,872.4	11.2	2,608.9	2,585.9	22.98	113.509		
6,750.0	6,675.1	6,659.1	6,659.1	17.3	11.6	1.76	-1,872.4	11.2	2,600.5	2,577.6	22.92	113.470		
6,800.0	6,723.7	6,707.7	6,707.7	17.2	11.7	1.80	-1,872.4	11.2	2,588.7	2,566.0	22.78	113.646		
6,850.0	6,771.3	6,755.3	6,755.3	17.1	11.8	1.85	-1,872.4	11.2	2,573.6	2,551.0	22.57	114.033		
6,900.0	6,817.8	6,801.8	6,801.8	16.9	11.9	1.91	-1,872.4	11.2	2,555.2	2,532.9	22.29	114.629		
6,950.0	6,862.9	6,846.9	6,846.9	16.7	12.0	1.99	-1,872.4	11.2	2,533.6	2,511.6	21.95	115.428		
7,000.0	6,906.3	6,890.3	6,890.3	16.4	12.0	2.09	-1,872.4	11.2	2,508.9	2,487.3	21.55	116.423		
7,050.0	6,948.0	6,932.0	6,932.0	16.1	12.1	2.22	-1,872.4	11.2	2,481.2	2,460.1	21.10	117.605		
7,100.0	6,987.6	6,971.6	6,971.6	15.9	12.2	2.37	-1,872.4	11.2	2,450.7	2,430.1	20.60	118.953		
7,150.0	7,024.9	7,008.9	7,008.9	15.6	12.2	2.56	-1,872.4	11.2	2,417.5	2,397.5	20.07	120.442		
7,200.0	7,059.9	7,043.9	7,043.9	15.3	12.3	2.79	-1,872.4	11.2	2,381.8	2,362.3	19.52	122.030		
7,250.0	7,092.3	7,076.3	7,076.3	15.0	12.4	3.07	-1,872.4	11.2	2,343.8	2,324.8	18.95	123.659		
7,300.0	7,121.9	7,105.9	7,105.9	14.7	12.4	3.44	-1,872.4	11.2	2,303.5	2,285.1	18.39	125.245		
7,350.0	7,148.7	7,132.7	7,132.7	14.4	12.4	3.91	-1,872.4	11.2	2,261.3	2,243.5	17.85	126.677		
7,400.0	7,172.4	7,156.4	7,156.4	14.2	12.5	4.54	-1,872.4	11.2	2,217.4	2,200.0	17.35	127.803		
7,450.0	7,193.1	7,177.1	7,177.1	13.9	12.5	5.40	-1,872.4	11.2	2,171.9	2,155.0	16.91	128.426		
7,500.0	7,210.5	7,194.5	7,194.5	13.8	12.6	6.65	-1,872.4	11.2	2,125.0	2,108.5	16.57	128.273		
7,550.0	7,224.6	7,208.6	7,208.6	13.6	12.6	8.62	-1,872.4	11.2	2,077.1	2,060.8	16.36	126.926		
7,600.0	7,235.3	7,219.3	7,219.3	13.5	12.6	12.08	-1,872.4	11.2	2,028.3	2,011.9	16.42	123.506		
7,650.0	7,242.6	7,226.6	7,226.6	13.5	12.6	19.58	-1,872.4	11.2	1,978.9	1,961.7	17.18	115.155		
7,700.0	7,246.4	7,230.4	7,230.4	13.5	12.6	44.35	-1,872.4	11.2	1,929.1	1,907.7	21.37	90.275		
7,729.7	7,247.0	7,231.0	7,231.0	13.6	12.6	90.00	-1,872.4	11.2	1,899.4	1,873.3	26.09	72.799		
7,800.0	7,247.0	7,231.0	7,231.0	13.7	12.6	90.00	-1,872.4	11.2	1,829.2	1,802.9	26.27	69.636		
7,900.0	7,247.0	7,231.0	7,231.0	14.2	12.6	90.00	-1,872.4	11.2	1,729.3	1,702.6	26.70	64.763		
8,000.0	7,247.0	7,231.0	7,231.0	14.8	12.6	90.00	-1,872.4	11.2	1,629.4	1,602.1	27.33	59.611		
8,100.0	7,247.0	7,231.0	7,231.0	15.6	12.6	90.00	-1,872.4	11.2	1,529.5	1,501.4	28.14	54.356		
8,200.0	7,247.0	7,231.0	7,231.0	16.5	12.6	90.00	-1,872.4	11.2	1,429.7	1,400.6	29.09	49.142		
8,300.0	7,247.0	7,231.0	7,231.0	17.6	12.6	90.00	-1,872.4	11.2	1,329.8	1,299.7	30.17	44.078		
8,400.0	7,247.0	7,231.0	7,231.0	18.8	12.6	90.00	-1,872.4	11.2	1,230.0	1,198.7	31.35	39.235		
8,500.0	7,247.0	7,231.0	7,231.0	20.1	12.6	90.00	-1,872.4	11.2	1,130.2	1,097.6	32.61	34.655		
8,600.0	7,247.0	7,231.0	7,231.0	21.4	12.6	90.00	-1,872.4	11.2	1,030.5	996.5	33.95	30.355		
8,700.0	7,247.0	7,231.0	7,231.0	22.8	12.6	90.00	-1,872.4	11.2	930.8	895.5	35.34	26.340		
8,800.0	7,247.0	7,231.0	7,231.0	24.2	12.6	90.00	-1,872.4	11.2	831.2	794.4	36.78	22.601		
8,900.0	7,247.0	7,231.0	7,231.0	25.7	12.6	90.00	-1,872.4	11.2	731.7	693.5	38.25	19.127		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-4-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-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			
9,000.0	7,247.0	7,231.0	7,231.0	27.2	12.6	90.00	-1,872.4	11.2	632.4	592.6	39.76	15.903		
9,100.0	7,247.0	7,231.0	7,231.0	28.7	12.6	90.00	-1,872.4	11.2	533.3	492.0	41.30	12.911		
9,200.0	7,247.0	7,231.0	7,231.0	30.3	12.6	90.00	-1,872.4	11.2	434.6	391.7	42.86	10.139		
9,300.0	7,247.0	7,231.0	7,231.0	31.9	12.6	90.00	-1,872.4	11.2	336.7	292.3	44.45	7.576		
9,400.0	7,247.0	7,231.0	7,231.0	33.5	12.6	90.00	-1,872.4	11.2	240.6	194.5	46.05	5.224		
9,500.0	7,247.0	7,231.0	7,231.0	35.1	12.6	90.00	-1,872.4	11.2	149.5	101.9	47.66	3.138		
9,600.0	7,247.0	7,231.0	7,231.0	36.7	12.6	90.00	-1,872.4	11.2	82.8	33.5	49.29	1.680		
9,627.5	7,247.0	7,231.0	7,231.0	37.1	12.6	90.00	-1,872.4	11.2	78.1	28.4	49.74	1.570 CC, ES, SF		
9,700.0	7,247.0	7,231.0	7,231.0	38.3	12.6	90.00	-1,872.4	11.2	106.6	55.6	50.92	2.092		
9,800.0	7,247.0	7,231.0	7,231.0	40.0	12.6	90.00	-1,872.4	11.2	189.3	136.8	52.57	3.601		
9,900.0	7,247.0	7,231.0	7,231.0	41.6	12.6	90.00	-1,872.4	11.2	283.4	229.2	54.23	5.227		
10,000.0	7,247.0	7,231.0	7,231.0	43.3	12.6	90.00	-1,872.4	11.2	380.6	324.7	55.89	6.809		
10,100.0	7,247.0	7,231.0	7,231.0	45.0	12.6	90.00	-1,872.4	11.2	478.9	421.3	57.56	8.319		
10,200.0	7,247.0	7,231.0	7,231.0	46.6	12.6	90.00	-1,872.4	11.2	577.8	518.5	59.24	9.753		
10,300.0	7,247.0	7,231.0	7,231.0	48.3	12.6	90.00	-1,872.4	11.2	677.0	616.1	60.92	11.112		
10,400.0	7,247.0	7,231.0	7,231.0	50.0	12.6	90.00	-1,872.4	11.2	776.4	713.8	62.61	12.401		
10,500.0	7,247.0	7,231.0	7,231.0	51.7	12.6	90.00	-1,872.4	11.2	876.0	811.7	64.30	13.622		
10,600.0	7,247.0	7,231.0	7,231.0	53.4	12.6	90.00	-1,872.4	11.2	975.6	909.6	66.00	14.782		
10,700.0	7,247.0	7,231.0	7,231.0	55.1	12.6	90.00	-1,872.4	11.2	1,075.3	1,007.6	67.70	15.884		
10,800.0	7,247.0	7,231.0	7,231.0	56.8	12.6	90.00	-1,872.4	11.2	1,175.1	1,105.7	69.40	16.932		
10,900.0	7,247.0	7,231.0	7,231.0	58.5	12.6	90.00	-1,872.4	11.2	1,274.9	1,203.8	71.11	17.929		
11,000.0	7,247.0	7,231.0	7,231.0	60.2	12.6	90.00	-1,872.4	11.2	1,374.7	1,301.9	72.82	18.879		
11,100.0	7,247.0	7,231.0	7,231.0	61.9	12.6	90.00	-1,872.4	11.2	1,474.5	1,400.0	74.53	19.785		
11,200.0	7,247.0	7,231.0	7,231.0	63.6	12.6	90.00	-1,872.4	11.2	1,574.4	1,498.2	76.24	20.651		
11,300.0	7,247.0	7,231.0	7,231.0	65.4	12.6	90.00	-1,872.4	11.2	1,674.3	1,596.3	77.96	21.477		
11,400.0	7,247.0	7,231.0	7,231.0	67.1	12.6	90.00	-1,872.4	11.2	1,774.2	1,694.5	79.67	22.268		
11,500.0	7,247.0	7,231.0	7,231.0	68.8	12.6	90.00	-1,872.4	11.2	1,874.1	1,792.7	81.39	23.025		
11,600.0	7,247.0	7,231.0	7,231.0	70.5	12.6	90.00	-1,872.4	11.2	1,974.0	1,890.9	83.11	23.751		
11,700.0	7,247.0	7,231.0	7,231.0	72.2	12.6	90.00	-1,872.4	11.2	2,073.9	1,989.1	84.84	24.446		
11,800.0	7,247.0	7,231.0	7,231.0	74.0	12.6	90.00	-1,872.4	11.2	2,173.9	2,087.3	86.56	25.114		
11,816.8	7,247.0	7,231.0	7,231.0	74.2	12.6	90.00	-1,872.4	11.2	2,190.7	2,103.9	86.85	25.223		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-8-10 (Existing) - DD - Plan #1													Offset Site Error: 0.0 ft	
Survey Program: 0-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	17.0	17.0	0.0	0.0	171.00	-4,061.7	643.0	4,112.3					
100.0	100.0	117.0	117.0	0.2	0.2	171.00	-4,061.7	643.0	4,112.3	4,111.9	0.33	N/A		
159.8	159.8	176.8	176.8	0.3	0.3	171.00	-4,061.7	643.0	4,112.3	4,111.7	0.54	7,583.923		
200.0	200.0	200.0	200.0	0.3	0.3	171.00	-4,061.7	643.0	4,112.3	4,111.7	0.65	6,299.956		
300.0	300.0	272.8	272.7	0.5	0.5	171.02	-4,062.2	642.2	4,112.9	4,112.0	0.96	4,299.664		
400.0	400.0	334.9	334.8	0.7	0.6	171.04	-4,063.5	640.3	4,114.4	4,113.2	1.25	3,300.279		
500.0	500.0	400.0	399.8	0.8	0.7	171.09	-4,065.6	637.2	4,116.9	4,115.4	1.55	2,660.564		
600.0	600.0	458.6	458.3	1.0	0.8	164.29	-4,068.2	633.3	4,121.1	4,119.3	1.85	2,231.815		
700.0	700.0	520.0	519.4	1.2	1.0	164.36	-4,071.7	628.2	4,128.0	4,125.8	2.16	1,910.505		
800.0	799.9	600.0	598.7	1.4	1.2	164.47	-4,077.3	619.9	4,137.5	4,135.0	2.54	1,631.817		
900.0	899.7	641.3	639.6	1.6	1.3	164.53	-4,080.7	614.9	4,149.5	4,146.7	2.83	1,467.808		
1,000.0	999.4	715.2	712.5	1.8	1.5	164.66	-4,087.4	604.9	4,164.1	4,160.9	3.21	1,295.631		
1,100.0	1,098.9	812.3	808.2	2.0	1.9	164.85	-4,096.5	591.5	4,180.6	4,177.0	3.67	1,137.650		
1,200.0	1,198.3	909.1	903.6	2.2	2.2	165.04	-4,105.5	578.2	4,198.9	4,194.7	4.14	1,014.527		
1,300.0	1,297.4	1,005.4	998.6	2.5	2.5	165.23	-4,114.5	564.9	4,218.9	4,214.3	4.60	916.418		
1,400.0	1,396.3	1,101.3	1,093.2	2.8	2.8	165.43	-4,123.4	551.7	4,240.6	4,235.5	5.07	836.711		
1,500.0	1,494.9	1,196.8	1,187.3	3.1	3.1	165.62	-4,132.3	538.5	4,264.0	4,258.5	5.53	770.872		
1,600.0	1,593.3	1,291.7	1,281.0	3.4	3.5	165.81	-4,141.1	525.4	4,289.2	4,283.2	5.99	715.725		
1,700.0	1,691.2	1,386.2	1,374.1	3.8	3.8	165.99	-4,149.9	512.4	4,316.0	4,309.6	6.45	668.981		
1,800.0	1,788.9	1,480.1	1,466.7	4.2	4.1	166.18	-4,158.7	499.5	4,344.6	4,337.7	6.91	628.952		
1,900.0	1,886.3	1,573.7	1,559.0	4.6	4.4	166.44	-4,167.4	486.5	4,374.1	4,366.7	7.38	593.038		
2,000.0	1,983.7	1,667.4	1,651.4	5.0	4.7	166.69	-4,176.1	473.6	4,403.7	4,395.8	7.84	561.486		
2,100.0	2,081.2	1,761.0	1,743.7	5.4	5.0	166.94	-4,184.8	460.7	4,433.3	4,425.0	8.31	533.562		
2,200.0	2,178.6	1,854.6	1,836.0	5.8	5.4	167.19	-4,193.6	447.8	4,463.0	4,454.3	8.77	508.686		
2,300.0	2,276.1	1,948.3	1,928.3	6.2	5.7	167.43	-4,202.3	434.9	4,492.8	4,483.6	9.24	486.393		
2,400.0	2,373.5	2,041.9	2,020.7	6.6	6.0	167.67	-4,211.0	422.0	4,522.7	4,513.0	9.70	466.305		
2,500.0	2,470.9	2,135.5	2,113.0	7.0	6.3	167.91	-4,219.7	409.1	4,552.7	4,542.5	10.16	448.117		
2,600.0	2,568.4	2,229.1	2,205.3	7.4	6.6	168.15	-4,228.4	396.2	4,582.7	4,572.1	10.62	431.573		
2,700.0	2,665.8	2,322.8	2,297.7	7.8	6.9	168.38	-4,237.2	383.3	4,612.8	4,601.7	11.08	416.464		
2,800.0	2,763.2	2,416.4	2,390.0	8.3	7.3	168.61	-4,245.9	370.4	4,643.0	4,631.4	11.53	402.612		
2,900.0	2,860.7	2,510.0	2,482.3	8.7	7.6	168.84	-4,254.6	357.5	4,673.2	4,661.2	11.99	389.869		
3,000.0	2,958.1	2,603.7	2,574.6	9.1	7.9	169.06	-4,263.3	344.6	4,703.5	4,691.1	12.44	378.108		
3,100.0	3,055.6	2,697.3	2,667.0	9.5	8.2	169.28	-4,272.0	331.7	4,733.9	4,721.0	12.89	367.221		
3,200.0	3,153.0	2,790.9	2,759.3	10.0	8.5	169.50	-4,280.7	318.8	4,764.3	4,751.0	13.34	357.115		
3,300.0	3,250.4	2,884.6	2,851.6	10.4	8.9	169.71	-4,289.5	305.9	4,794.8	4,781.0	13.79	347.709		
3,400.0	3,347.9	2,978.2	2,943.9	10.8	9.2	169.93	-4,298.2	293.0	4,825.4	4,811.1	14.24	338.934		
3,500.0	3,445.3	3,071.8	3,036.3	11.2	9.5	170.14	-4,306.9	280.1	4,856.0	4,841.3	14.68	330.729		
3,600.0	3,542.7	3,165.4	3,128.6	11.7	9.8	170.34	-4,315.6	267.2	4,886.7	4,871.5	15.13	323.041		
3,700.0	3,640.2	3,259.1	3,220.9	12.1	10.1	170.55	-4,324.3	254.3	4,917.4	4,901.8	15.57	315.822		
3,800.0	3,737.6	3,352.7	3,313.2	12.5	10.5	170.75	-4,333.1	241.4	4,948.2	4,932.2	16.01	309.031		
3,815.0	3,752.2	3,366.8	3,327.1	12.6	10.5	170.78	-4,334.4	239.4	4,952.8	4,936.8	16.08	308.047		
3,900.0	3,835.2	3,446.5	3,405.8	12.9	10.8	170.99	-4,341.8	228.4	4,978.5	4,962.0	16.48	302.120		
4,000.0	3,933.1	3,540.9	3,498.8	13.3	11.1	171.23	-4,350.6	215.4	5,007.2	4,990.2	16.95	295.451		
4,100.0	4,031.4	3,635.8	3,592.4	13.6	11.4	171.47	-4,359.4	202.3	5,034.3	5,016.9	17.41	289.083		
4,200.0	4,130.0	3,731.2	3,686.4	14.0	11.7	171.69	-4,368.3	189.2	5,059.7	5,041.9	17.88	282.991		
4,300.0	4,228.9	3,827.0	3,781.0	14.3	12.1	171.90	-4,377.2	176.0	5,083.6	5,065.3	18.34	277.153		
4,400.0	4,328.0	3,923.3	3,875.9	14.6	12.4	172.11	-4,386.2	162.7	5,105.8	5,087.0	18.80	271.552		
4,500.0	4,427.3	4,020.0	3,971.2	14.8	12.7	172.31	-4,395.2	149.4	5,126.4	5,107.1	19.26	266.169		
4,600.0	4,526.8	4,117.1	4,066.9	15.0	13.1	172.50	-4,404.2	136.0	5,145.3	5,125.6	19.71	260.989		
4,700.0	4,626.5	4,214.5	4,163.0	15.2	13.4	172.69	-4,413.3	122.6	5,162.6	5,142.4	20.17	255.999		
4,800.0	4,726.3	4,312.2	4,259.3	15.4	13.7	172.87	-4,422.4	109.1	5,178.2	5,157.5	20.61	251.185		
4,900.0	4,826.2	4,410.2	4,356.0	15.6	14.1	173.04	-4,431.5	95.6	5,192.1	5,171.0	21.06	246.538		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-8-10 (Existing) - DD - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,000.0	4,926.1	4,508.4	4,452.8	15.7	14.4	173.21	-4,440.7	82.1	5,204.3	5,182.8	21.50	242.046	
5,100.0	5,026.1	5,101.9	5,043.1	15.8	15.6	173.70	-4,469.7	39.1	5,211.6	5,188.8	22.75	229.070	
5,115.0	5,041.1	5,116.9	5,058.1	15.8	15.6	-179.45	-4,469.7	39.1	5,211.6	5,188.8	22.79	228.659	
5,200.0	5,126.1	5,201.9	5,143.1	15.9	15.7	-179.45	-4,469.7	39.1	5,211.6	5,188.5	23.04	226.245	
5,300.0	5,226.1	5,301.9	5,243.1	16.0	15.8	-179.45	-4,469.7	39.1	5,211.6	5,188.3	23.32	223.457	
5,400.0	5,326.1	5,401.9	5,343.1	16.1	15.9	-179.45	-4,469.7	39.1	5,211.6	5,188.0	23.61	220.725	
5,500.0	5,426.1	5,501.9	5,443.1	16.2	16.0	-179.45	-4,469.7	39.1	5,211.6	5,187.7	23.90	218.047	
5,600.0	5,526.1	5,601.9	5,543.1	16.3	16.1	-179.45	-4,469.7	39.1	5,211.6	5,187.4	24.19	215.422	
5,700.0	5,626.1	5,701.9	5,643.1	16.4	16.2	-179.45	-4,469.7	39.1	5,211.6	5,187.1	24.48	212.850	
5,800.0	5,726.1	5,801.9	5,743.1	16.5	16.3	-179.45	-4,469.7	39.1	5,211.6	5,186.8	24.78	210.329	
5,900.0	5,826.1	5,901.9	5,843.1	16.6	16.4	-179.45	-4,469.7	39.1	5,211.6	5,186.5	25.07	207.857	
6,000.0	5,926.1	6,001.9	5,943.1	16.7	16.6	-179.45	-4,469.7	39.1	5,211.6	5,186.2	25.37	205.434	
6,100.0	6,026.1	6,101.9	6,043.1	16.8	16.7	-179.45	-4,469.7	39.1	5,211.6	5,185.9	25.67	203.058	
6,200.0	6,126.1	6,201.9	6,143.1	16.9	16.8	-179.45	-4,469.7	39.1	5,211.6	5,185.6	25.96	200.729	
6,300.0	6,226.1	6,301.9	6,243.1	17.0	16.9	-179.45	-4,469.7	39.1	5,211.6	5,185.3	26.26	198.444	
6,400.0	6,326.1	6,401.9	6,343.1	17.2	17.0	-179.45	-4,469.7	39.1	5,211.6	5,185.0	26.56	196.204	
6,500.0	6,426.1	6,501.9	6,443.1	17.3	17.1	-179.45	-4,469.7	39.1	5,211.6	5,184.7	26.86	194.007	
6,604.7	6,530.8	6,606.6	6,547.8	17.4	17.2	-179.45	-4,469.7	39.1	5,211.6	5,184.4	27.18	191.751	
6,650.0	6,576.1	6,651.9	6,593.1	17.4	17.3	0.55	-4,469.7	39.1	5,210.2	5,182.9	27.24	191.245	
6,700.0	6,625.8	6,701.6	6,642.8	17.4	17.4	0.56	-4,469.7	39.1	5,205.3	5,178.0	27.22	191.237	
6,750.0	6,675.1	6,750.9	6,692.1	17.3	17.4	0.57	-4,469.7	39.1	5,196.9	5,169.8	27.10	191.798	
6,800.0	6,723.7	6,799.5	6,740.7	17.2	17.5	0.58	-4,469.7	39.1	5,185.1	5,158.2	26.88	192.931	
6,850.0	6,771.3	6,847.1	6,788.3	17.1	17.5	0.59	-4,469.7	39.1	5,170.0	5,143.4	26.56	194.644	
6,900.0	6,817.8	6,893.6	6,834.8	16.9	17.6	0.61	-4,469.7	39.1	5,151.6	5,125.4	26.16	196.954	
6,950.0	6,862.9	6,938.7	6,879.9	16.7	17.6	0.63	-4,469.7	39.1	5,129.9	5,104.3	25.67	199.877	
7,000.0	6,906.3	6,982.1	6,923.3	16.4	17.7	0.66	-4,469.7	39.1	5,105.2	5,080.1	25.10	203.435	
7,050.0	6,948.0	7,023.8	6,965.0	16.1	17.7	0.70	-4,469.7	39.1	5,077.6	5,053.1	24.45	207.651	
7,100.0	6,987.6	7,063.4	7,004.6	15.9	17.8	0.74	-4,469.7	39.1	5,047.0	5,023.3	23.75	212.544	
7,150.0	7,024.9	7,100.7	7,041.9	15.6	17.8	0.79	-4,469.7	39.1	5,013.8	4,990.9	22.99	218.127	
7,200.0	7,059.9	7,135.7	7,076.9	15.3	17.9	0.86	-4,469.7	39.1	4,978.1	4,955.9	22.18	224.396	
7,250.0	7,092.3	7,168.1	7,109.3	15.0	17.9	0.94	-4,469.7	39.1	4,940.0	4,918.7	21.36	231.325	
7,300.0	7,121.9	7,197.7	7,138.9	14.7	17.9	1.04	-4,469.7	39.1	4,899.8	4,879.3	20.51	238.845	
7,350.0	7,148.7	7,224.5	7,165.7	14.4	18.0	1.17	-4,469.7	39.1	4,857.6	4,837.9	19.68	246.825	
7,400.0	7,172.4	7,248.2	7,189.4	14.2	18.0	1.35	-4,469.7	39.1	4,813.6	4,794.7	18.87	255.046	
7,450.0	7,193.1	7,268.9	7,210.1	13.9	18.0	1.59	-4,469.7	39.1	4,768.1	4,749.9	18.12	263.168	
7,500.0	7,210.5	7,286.3	7,227.5	13.8	18.1	1.94	-4,469.7	39.1	4,721.2	4,703.8	17.44	270.694	
7,550.0	7,224.6	7,300.4	7,241.6	13.6	18.1	2.48	-4,469.7	39.1	4,673.2	4,656.4	16.88	276.930	
7,600.0	7,235.3	7,311.1	7,252.3	13.5	18.1	3.46	-4,469.7	39.1	4,624.4	4,607.9	16.46	280.883	
7,650.0	7,242.6	7,318.4	7,259.6	13.5	18.1	5.66	-4,469.7	39.1	4,575.0	4,558.6	16.30	280.610	
7,700.0	7,246.4	7,322.2	7,263.4	13.5	18.1	15.03	-4,469.7	39.1	4,525.1	4,507.8	17.26	262.143	
7,729.7	7,247.0	7,322.8	7,264.0	13.6	18.1	90.00	-4,469.7	39.1	4,495.4	4,467.3	28.10	159.992	
7,800.0	7,247.0	7,322.8	7,264.0	13.7	18.1	90.00	-4,469.7	39.1	4,425.1	4,396.9	28.27	156.509	
7,900.0	7,247.0	7,322.8	7,264.0	14.2	18.1	90.00	-4,469.7	39.1	4,325.1	4,296.4	28.71	150.659	
8,000.0	7,247.0	7,322.8	7,264.0	14.8	18.1	90.00	-4,469.7	39.1	4,225.1	4,195.8	29.34	144.007	
8,100.0	7,247.0	7,322.8	7,264.0	15.6	18.1	90.00	-4,469.7	39.1	4,125.1	4,095.0	30.15	136.843	
8,200.0	7,247.0	7,322.8	7,264.0	16.5	18.1	90.00	-4,469.7	39.1	4,025.2	3,994.1	31.10	129.433	
8,300.0	7,247.0	7,322.8	7,264.0	17.6	18.1	90.00	-4,469.7	39.1	3,925.2	3,893.0	32.18	121.992	
8,400.0	7,247.0	7,322.8	7,264.0	18.8	18.1	90.00	-4,469.7	39.1	3,825.2	3,791.8	33.36	114.679	
8,500.0	7,247.0	7,322.8	7,264.0	20.1	18.1	90.00	-4,469.7	39.1	3,725.2	3,690.6	34.62	107.602	
8,600.0	7,247.0	7,322.8	7,264.0	21.4	18.1	90.00	-4,469.7	39.1	3,625.2	3,589.2	35.95	100.830	
8,700.0	7,247.0	7,322.8	7,264.0	22.8	18.1	90.00	-4,469.7	39.1	3,525.2	3,487.9	37.34	94.397	
8,800.0	7,247.0	7,322.8	7,264.0	24.2	18.1	90.00	-4,469.7	39.1	3,425.2	3,386.4	38.78	88.318	

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 6-8-10 (Existing) - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
8,900.0	7,247.0	7,322.8	7,264.0	25.7	18.1	90.00	-4,469.7	39.1	3,325.2	3,285.0	40.26	82.593		
9,000.0	7,247.0	7,322.8	7,264.0	27.2	18.1	90.00	-4,469.7	39.1	3,225.2	3,183.5	41.77	77.212		
9,100.0	7,247.0	7,322.8	7,264.0	28.7	18.1	90.00	-4,469.7	39.1	3,125.2	3,081.9	43.31	72.161		
9,200.0	7,247.0	7,322.8	7,264.0	30.3	18.1	90.00	-4,469.7	39.1	3,025.3	2,980.4	44.87	67.421		
9,300.0	7,247.0	7,322.8	7,264.0	31.9	18.1	90.00	-4,469.7	39.1	2,925.3	2,878.8	46.45	62.973		
9,400.0	7,247.0	7,322.8	7,264.0	33.5	18.1	90.00	-4,469.7	39.1	2,825.3	2,777.2	48.05	58.797		
9,500.0	7,247.0	7,322.8	7,264.0	35.1	18.1	90.00	-4,469.7	39.1	2,725.3	2,675.6	49.67	54.873		
9,600.0	7,247.0	7,322.8	7,264.0	36.7	18.1	90.00	-4,469.7	39.1	2,625.3	2,574.0	51.29	51.184		
9,700.0	7,247.0	7,322.8	7,264.0	38.3	18.1	90.00	-4,469.7	39.1	2,525.3	2,472.4	52.93	47.711		
9,800.0	7,247.0	7,322.8	7,264.0	40.0	18.1	90.00	-4,469.7	39.1	2,425.4	2,370.8	54.58	44.438		
9,900.0	7,247.0	7,322.8	7,264.0	41.6	18.1	90.00	-4,469.7	39.1	2,325.4	2,269.2	56.23	41.352		
10,000.0	7,247.0	7,322.8	7,264.0	43.3	18.1	90.00	-4,469.7	39.1	2,225.4	2,167.5	57.90	38.436		
10,100.0	7,247.0	7,322.8	7,264.0	45.0	18.1	90.00	-4,469.7	39.1	2,125.4	2,065.9	59.57	35.680		
10,200.0	7,247.0	7,322.8	7,264.0	46.6	18.1	90.00	-4,469.7	39.1	2,025.5	1,964.2	61.25	33.071		
10,300.0	7,247.0	7,322.8	7,264.0	48.3	18.1	90.00	-4,469.7	39.1	1,925.5	1,862.6	62.93	30.598		
10,400.0	7,247.0	7,322.8	7,264.0	50.0	18.1	90.00	-4,469.7	39.1	1,825.5	1,760.9	64.62	28.252		
10,500.0	7,247.0	7,322.8	7,264.0	51.7	18.1	90.00	-4,469.7	39.1	1,725.6	1,659.3	66.31	26.023		
10,600.0	7,247.0	7,322.8	7,264.0	53.4	18.1	90.00	-4,469.7	39.1	1,625.6	1,557.6	68.00	23.904		
10,700.0	7,247.0	7,322.8	7,264.0	55.1	18.1	90.00	-4,469.7	39.1	1,525.7	1,456.0	69.70	21.888		
10,800.0	7,247.0	7,322.8	7,264.0	56.8	18.1	90.00	-4,469.7	39.1	1,425.7	1,354.3	71.41	19.966		
10,900.0	7,247.0	7,322.8	7,264.0	58.5	18.1	90.00	-4,469.7	39.1	1,325.8	1,252.7	73.11	18.133		
11,000.0	7,247.0	7,322.8	7,264.0	60.2	18.1	90.00	-4,469.7	39.1	1,225.9	1,151.1	74.82	16.384		
11,100.0	7,247.0	7,322.8	7,264.0	61.9	18.1	90.00	-4,469.7	39.1	1,126.0	1,049.4	76.53	14.712		
11,200.0	7,247.0	7,322.8	7,264.0	63.6	18.1	90.00	-4,469.7	39.1	1,026.1	947.8	78.25	13.113		
11,300.0	7,247.0	7,322.8	7,264.0	65.4	18.1	90.00	-4,469.7	39.1	926.2	846.2	79.96	11.583		
11,400.0	7,247.0	7,322.8	7,264.0	67.1	18.1	90.00	-4,469.7	39.1	826.4	744.7	81.68	10.117		
11,500.0	7,247.0	7,322.8	7,264.0	68.8	18.1	90.00	-4,469.7	39.1	726.6	643.2	83.40	8.712		
11,600.0	7,247.0	7,322.8	7,264.0	70.5	18.1	90.00	-4,469.7	39.1	626.9	541.7	85.12	7.364		
11,700.0	7,247.0	7,322.8	7,264.0	72.2	18.1	90.00	-4,469.7	39.1	527.2	440.4	86.84	6.071		
11,800.0	7,247.0	7,322.8	7,264.0	74.0	18.1	90.00	-4,469.7	39.1	427.8	339.2	88.57	4.830		
11,816.8	7,247.0	7,322.8	7,264.0	74.2	18.1	90.00	-4,469.7	39.1	411.1	322.2	88.86	4.626 CC, ES, SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 8-6-10 (Existing) - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-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	18.0	18.0	0.0	0.0	170.98	-4,050.8	643.0	4,101.5					
100.0	100.0	118.0	118.0	0.2	0.2	170.98	-4,050.8	643.0	4,101.5	4,101.2	0.34	N/A		
200.0	200.0	1,147.3	1,130.5	0.3	3.6	169.53	-3,920.1	724.5	4,089.6	4,086.3	3.32	1,232.896		
300.0	300.0	1,242.8	1,221.8	0.5	4.1	169.25	-3,896.1	739.5	4,067.4	4,063.5	3.90	1,044.006		
400.0	400.0	1,338.3	1,313.0	0.7	4.6	168.97	-3,872.1	754.5	4,045.2	4,040.7	4.48	902.648		
500.0	500.0	1,433.9	1,404.2	0.8	5.1	168.69	-3,848.1	769.4	4,023.1	4,018.1	5.07	793.093		
600.0	600.0	1,529.6	1,495.7	1.0	5.6	161.63	-3,824.1	784.5	4,002.0	3,996.6	5.34	749.345		
700.0	700.0	1,625.8	1,587.5	1.2	6.1	161.42	-3,799.9	799.5	3,982.5	3,976.6	5.90	674.447		
800.0	799.9	1,722.4	1,679.8	1.4	6.7	161.20	-3,775.6	814.7	3,964.8	3,958.3	6.47	612.417		
900.0	899.7	1,819.3	1,772.4	1.6	7.2	160.99	-3,751.3	829.9	3,948.7	3,941.7	7.05	560.281		
1,000.0	999.4	1,916.6	1,865.3	1.8	7.7	160.78	-3,726.8	845.2	3,934.4	3,926.8	7.63	515.907		
1,100.0	1,098.9	2,014.3	1,958.6	2.0	8.3	160.57	-3,702.3	860.5	3,921.8	3,913.6	8.21	477.730		
1,200.0	1,198.3	2,112.2	2,052.1	2.2	8.8	160.35	-3,677.6	875.8	3,911.0	3,902.2	8.80	444.574		
1,300.0	1,297.4	2,210.4	2,145.9	2.5	9.3	160.15	-3,653.0	891.3	3,901.8	3,892.4	9.39	415.541		
1,400.0	1,396.3	2,308.8	2,239.9	2.8	9.9	159.94	-3,628.2	906.7	3,894.3	3,884.3	9.99	389.935		
1,500.0	1,494.9	2,407.5	2,334.1	3.1	10.4	159.73	-3,603.4	922.2	3,888.5	3,878.0	10.59	367.204		
1,600.0	1,593.3	2,506.3	2,428.5	3.4	11.0	159.53	-3,578.6	937.7	3,884.5	3,873.3	11.20	346.909		
1,700.0	1,691.2	2,605.2	2,523.0	3.8	11.5	159.33	-3,553.7	953.2	3,882.1	3,870.3	11.81	328.696		
1,791.9	1,781.0	2,696.2	2,609.9	4.1	12.0	159.15	-3,530.9	967.5	3,881.4	3,869.0	12.38	313.538		
1,800.0	1,788.9	2,704.3	2,617.6	4.2	12.1	159.13	-3,528.9	968.7	3,881.4	3,869.0	12.43	312.275		
1,900.0	1,886.3	2,803.4	2,712.2	4.6	12.6	158.93	-3,503.9	984.3	3,881.5	3,868.5	13.07	296.921		
2,000.0	1,983.7	2,902.5	2,806.9	5.0	13.1	158.74	-3,479.0	999.8	3,881.7	3,868.0	13.72	282.904		
2,100.0	2,081.2	3,001.5	2,901.5	5.4	13.7	158.54	-3,454.1	1,015.3	3,882.0	3,867.6	14.37	270.062		
2,200.0	2,178.6	3,100.6	2,996.2	5.8	14.2	158.35	-3,429.2	1,030.9	3,882.3	3,867.3	15.03	258.258		
2,300.0	2,276.1	3,199.7	3,090.8	6.2	14.8	158.15	-3,404.3	1,046.4	3,882.6	3,866.9	15.70	247.374		
2,400.0	2,373.5	3,298.8	3,185.5	6.6	15.3	157.95	-3,379.4	1,062.0	3,883.0	3,866.7	16.36	237.309		
2,500.0	2,470.9	3,397.9	3,280.1	7.0	15.9	157.76	-3,354.5	1,077.5	3,883.5	3,866.4	17.03	227.977		
2,600.0	2,568.4	3,497.0	3,374.8	7.4	16.4	157.56	-3,329.6	1,093.1	3,883.9	3,866.2	17.71	219.302		
2,700.0	2,665.8	3,596.1	3,469.4	7.8	17.0	157.37	-3,304.7	1,108.6	3,884.5	3,866.1	18.39	211.219		
2,800.0	2,763.2	3,695.2	3,564.1	8.3	17.5	157.17	-3,279.8	1,124.2	3,885.1	3,866.0	19.08	203.670		
2,900.0	2,860.7	3,794.3	3,658.7	8.7	18.1	156.98	-3,254.9	1,139.7	3,885.7	3,865.9	19.76	196.605		
3,000.0	2,958.1	3,893.4	3,753.4	9.1	18.6	156.78	-3,230.0	1,155.2	3,886.3	3,865.9	20.46	189.980		
3,100.0	3,055.6	3,992.5	3,848.0	9.5	19.2	156.58	-3,205.1	1,170.8	3,887.1	3,865.9	21.15	183.757		
3,200.0	3,153.0	4,091.6	3,942.7	10.0	19.7	156.39	-3,180.2	1,186.3	3,887.8	3,866.0	21.85	177.899		
3,300.0	3,250.4	4,190.7	4,037.3	10.4	20.2	156.19	-3,155.3	1,201.9	3,888.6	3,866.1	22.56	172.378		
3,400.0	3,347.9	4,289.8	4,132.0	10.8	20.8	156.00	-3,130.4	1,217.4	3,889.5	3,866.2	23.27	167.164		
3,500.0	3,445.3	4,351.6	4,191.0	11.2	21.1	155.88	-3,115.1	1,226.9	3,890.7	3,867.0	23.78	163.592		
3,600.0	3,542.7	4,400.0	4,237.6	11.7	21.4	155.80	-3,103.8	1,234.0	3,893.2	3,869.0	24.23	160.670		
3,700.0	3,640.2	4,456.3	4,292.0	12.1	21.6	155.71	-3,091.6	1,241.6	3,897.0	3,872.3	24.69	157.840		
3,800.0	3,737.6	4,500.0	4,334.4	12.5	21.8	155.65	-3,082.7	1,247.2	3,901.9	3,876.8	25.10	155.479		
3,815.0	3,752.2	4,500.0	4,334.4	12.6	21.8	155.65	-3,082.7	1,247.2	3,902.8	3,877.7	25.13	155.296		
3,900.0	3,835.2	4,561.4	4,394.3	12.9	22.0	155.60	-3,071.1	1,254.4	3,907.5	3,881.9	25.56	152.873		
4,000.0	3,933.1	4,600.0	4,432.1	13.3	22.2	155.58	-3,064.4	1,258.6	3,912.7	3,886.8	25.94	150.849		
4,100.0	4,031.4	4,666.7	4,497.6	13.6	22.4	155.54	-3,053.9	1,265.2	3,917.5	3,891.2	26.37	148.538		
4,200.0	4,130.0	4,700.0	4,530.4	14.0	22.5	155.53	-3,049.1	1,268.2	3,922.1	3,895.4	26.70	146.906		
4,300.0	4,228.9	4,772.1	4,601.8	14.3	22.7	155.49	-3,039.8	1,274.0	3,926.1	3,899.0	27.10	144.890		
4,400.0	4,328.0	4,824.9	4,654.1	14.6	22.8	155.47	-3,034.0	1,277.6	3,929.8	3,902.4	27.42	143.296		
4,500.0	4,427.3	4,900.0	4,728.7	14.8	23.0	155.45	-3,027.1	1,281.9	3,933.2	3,905.4	27.77	141.614		
4,600.0	4,526.8	4,930.6	4,759.2	15.0	23.1	155.45	-3,024.8	1,283.3	3,936.0	3,908.0	28.01	140.531		
4,700.0	4,626.5	5,000.0	4,828.4	15.2	23.2	155.44	-3,020.5	1,286.0	3,938.6	3,910.3	28.29	139.204		
4,800.0	4,726.3	5,036.4	4,864.7	15.4	23.2	155.44	-3,018.9	1,287.0	3,940.7	3,912.2	28.50	138.269		
4,900.0	4,826.2	5,100.0	4,928.3	15.6	23.3	155.44	-3,016.9	1,288.2	3,942.5	3,913.7	28.73	137.240		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 8-6-10 (Existing) - DD - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
5,000.0	4,926.1	5,142.1	4,970.4	15.7	23.3	155.44	-3,016.3	1,288.6	3,943.8	3,914.9	28.91	136.436	
5,100.0	5,026.1	5,215.8	5,044.1	15.8	23.4	155.45	-3,016.2	1,288.7	3,944.6	3,915.5	29.10	135.552	
5,115.0	5,041.1	5,230.8	5,059.1	15.8	23.4	162.30	-3,016.2	1,288.7	3,944.7	3,915.5	29.13	135.408	
5,200.0	5,126.1	5,315.8	5,144.1	15.9	23.4	162.30	-3,016.2	1,288.7	3,944.7	3,915.3	29.33	134.485	
5,300.0	5,226.1	5,415.8	5,244.1	16.0	23.5	162.30	-3,016.2	1,288.7	3,944.7	3,915.1	29.57	133.407	
5,400.0	5,326.1	5,515.8	5,344.1	16.1	23.6	162.30	-3,016.2	1,288.7	3,944.7	3,914.8	29.81	132.338	
5,500.0	5,426.1	5,615.8	5,444.1	16.2	23.6	162.30	-3,016.2	1,288.7	3,944.7	3,914.6	30.05	131.277	
5,600.0	5,526.1	5,715.8	5,544.1	16.3	23.7	162.30	-3,016.2	1,288.7	3,944.7	3,914.4	30.29	130.226	
5,700.0	5,626.1	5,815.8	5,644.1	16.4	23.8	162.30	-3,016.2	1,288.7	3,944.7	3,914.1	30.54	129.183	
5,800.0	5,726.1	5,915.8	5,744.1	16.5	23.9	162.30	-3,016.2	1,288.7	3,944.7	3,913.9	30.78	128.150	
5,900.0	5,826.1	6,015.8	5,844.1	16.6	23.9	162.30	-3,016.2	1,288.7	3,944.7	3,913.6	31.03	127.126	
6,000.0	5,926.1	6,115.8	5,944.1	16.7	24.0	162.30	-3,016.2	1,288.7	3,944.7	3,913.4	31.28	126.111	
6,100.0	6,026.1	6,215.8	6,044.1	16.8	24.1	162.30	-3,016.2	1,288.7	3,944.7	3,913.1	31.53	125.106	
6,200.0	6,126.1	6,315.8	6,144.1	16.9	24.2	162.30	-3,016.2	1,288.7	3,944.7	3,912.9	31.78	124.111	
6,300.0	6,226.1	6,415.8	6,244.1	17.0	24.2	162.30	-3,016.2	1,288.7	3,944.7	3,912.6	32.04	123.125	
6,400.0	6,326.1	6,515.8	6,344.1	17.2	24.3	162.30	-3,016.2	1,288.7	3,944.7	3,912.4	32.29	122.149	
6,500.0	6,426.1	6,615.8	6,444.1	17.3	24.4	162.30	-3,016.2	1,288.7	3,944.7	3,912.1	32.55	121.183	
6,604.7	6,530.8	6,720.5	6,548.8	17.4	24.5	162.30	-3,016.2	1,288.7	3,944.7	3,911.8	32.82	120.182	
6,650.0	6,576.1	6,765.8	6,594.1	17.4	24.5	-17.74	-3,016.2	1,288.7	3,943.3	3,910.5	32.83	120.107	
6,700.0	6,625.8	6,815.5	6,643.8	17.4	24.6	-17.88	-3,016.2	1,288.7	3,938.6	3,905.9	32.77	120.194	
6,750.0	6,675.1	6,864.8	6,693.1	17.3	24.6	-18.11	-3,016.2	1,288.7	3,930.7	3,898.0	32.64	120.442	
6,800.0	6,723.7	6,913.4	6,741.7	17.2	24.7	-18.46	-3,016.2	1,288.7	3,919.4	3,887.0	32.44	120.839	
6,850.0	6,771.3	6,961.0	6,789.3	17.1	24.7	-18.91	-3,016.2	1,288.7	3,905.0	3,872.9	32.18	121.368	
6,900.0	6,817.8	7,007.5	6,835.8	16.9	24.7	-19.49	-3,016.2	1,288.7	3,887.5	3,855.7	31.86	122.004	
6,950.0	6,862.9	7,052.6	6,880.9	16.7	24.8	-20.21	-3,016.2	1,288.7	3,867.0	3,835.4	31.51	122.712	
7,000.0	6,906.3	7,096.0	6,924.3	16.4	24.8	-21.09	-3,016.2	1,288.7	3,843.5	3,812.3	31.13	123.446	
7,050.0	6,948.0	7,137.7	6,966.0	16.1	24.8	-22.15	-3,016.2	1,288.7	3,817.2	3,786.4	30.75	124.142	
7,100.0	6,987.6	7,177.2	7,005.6	15.9	24.9	-23.43	-3,016.2	1,288.7	3,788.2	3,757.8	30.37	124.721	
7,150.0	7,024.9	7,214.6	7,042.9	15.6	24.9	-24.96	-3,016.2	1,288.7	3,756.7	3,726.7	30.04	125.076	
7,200.0	7,059.9	7,249.6	7,077.9	15.3	24.9	-26.79	-3,016.2	1,288.7	3,722.9	3,693.1	29.77	125.076	
7,250.0	7,092.3	7,282.0	7,110.3	15.0	25.0	-28.99	-3,016.2	1,288.7	3,686.9	3,657.3	29.60	124.569	
7,300.0	7,121.9	7,311.6	7,139.9	14.7	25.0	-31.65	-3,016.2	1,288.7	3,648.8	3,619.3	29.57	123.388	
7,350.0	7,148.7	7,338.4	7,166.7	14.4	25.0	-34.87	-3,016.2	1,288.7	3,609.0	3,579.2	29.73	121.372	
7,400.0	7,172.4	7,362.1	7,190.4	14.2	25.0	-38.78	-3,016.2	1,288.7	3,567.5	3,537.4	30.13	118.410	
7,450.0	7,193.1	7,382.8	7,211.1	13.9	25.1	-43.55	-3,016.2	1,288.7	3,524.7	3,493.9	30.79	114.488	
7,500.0	7,210.5	7,400.2	7,228.5	13.8	25.1	-49.34	-3,016.2	1,288.7	3,480.6	3,448.9	31.71	109.755	
7,550.0	7,224.6	7,414.3	7,242.6	13.6	25.1	-56.32	-3,016.2	1,288.7	3,435.7	3,402.8	32.85	104.571	
7,600.0	7,235.3	7,425.0	7,253.3	13.5	25.1	-64.54	-3,016.2	1,288.7	3,389.9	3,355.9	34.07	99.503	
7,650.0	7,242.6	7,432.3	7,260.6	13.5	25.1	-73.88	-3,016.2	1,288.7	3,343.7	3,308.6	35.12	95.214	
7,700.0	7,246.4	7,436.1	7,264.4	13.5	25.1	-83.94	-3,016.2	1,288.7	3,297.3	3,261.5	35.74	92.256	
7,729.7	7,247.0	7,436.7	7,265.0	13.6	25.1	-90.00	-3,016.2	1,288.7	3,269.6	3,233.8	35.84	91.230	
7,800.0	7,247.0	7,436.7	7,265.0	13.7	25.1	-90.00	-3,016.2	1,288.7	3,204.3	3,168.3	36.02	88.970	
7,900.0	7,247.0	7,436.7	7,265.0	14.2	25.1	-90.00	-3,016.2	1,288.7	3,111.8	3,075.4	36.45	85.373	
8,000.0	7,247.0	7,436.7	7,265.0	14.8	25.1	-90.00	-3,016.2	1,288.7	3,019.8	2,982.7	37.08	81.437	
8,100.0	7,247.0	7,436.7	7,265.0	15.6	25.1	-90.00	-3,016.2	1,288.7	2,928.3	2,890.4	37.89	77.291	
8,200.0	7,247.0	7,436.7	7,265.0	16.5	25.1	-90.00	-3,016.2	1,288.7	2,837.3	2,798.5	38.84	73.052	
8,300.0	7,247.0	7,436.7	7,265.0	17.6	25.1	-90.00	-3,016.2	1,288.7	2,747.0	2,707.1	39.92	68.818	
8,400.0	7,247.0	7,436.7	7,265.0	18.8	25.1	-90.00	-3,016.2	1,288.7	2,657.4	2,616.3	41.10	64.662	
8,500.0	7,247.0	7,436.7	7,265.0	20.1	25.1	-90.00	-3,016.2	1,288.7	2,568.6	2,526.2	42.36	60.635	
8,600.0	7,247.0	7,436.7	7,265.0	21.4	25.1	-90.00	-3,016.2	1,288.7	2,480.6	2,436.9	43.70	56.771	
8,700.0	7,247.0	7,436.7	7,265.0	22.8	25.1	-90.00	-3,016.2	1,288.7	2,393.6	2,348.5	45.09	53.089	
8,800.0	7,247.0	7,436.7	7,265.0	24.2	25.1	-90.00	-3,016.2	1,288.7	2,307.6	2,261.0	46.52	49.599	

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - lone 8-6-10 (Existing) - DD - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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		
8,900.0	7,247.0	7,436.7	7,265.0	25.7	25.1	-90.00	-3,016.2	1,288.7	2,222.7	2,174.7	48.00	46.305		
9,000.0	7,247.0	7,436.7	7,265.0	27.2	25.1	-90.00	-3,016.2	1,288.7	2,139.2	2,089.7	49.51	43.206		
9,100.0	7,247.0	7,436.7	7,265.0	28.7	25.1	-90.00	-3,016.2	1,288.7	2,057.2	2,006.1	51.05	40.297		
9,200.0	7,247.0	7,436.7	7,265.0	30.3	25.1	-90.00	-3,016.2	1,288.7	1,976.8	1,924.2	52.61	37.573		
9,300.0	7,247.0	7,436.7	7,265.0	31.9	25.1	-90.00	-3,016.2	1,288.7	1,898.3	1,844.1	54.19	35.027		
9,400.0	7,247.0	7,436.7	7,265.0	33.5	25.1	-90.00	-3,016.2	1,288.7	1,821.8	1,766.1	55.79	32.653		
9,500.0	7,247.0	7,436.7	7,265.0	35.1	25.1	-90.00	-3,016.2	1,288.7	1,747.8	1,690.4	57.41	30.446		
9,600.0	7,247.0	7,436.7	7,265.0	36.7	25.1	-90.00	-3,016.2	1,288.7	1,676.5	1,617.4	59.03	28.398		
9,700.0	7,247.0	7,436.7	7,265.0	38.3	25.1	-90.00	-3,016.2	1,288.7	1,608.2	1,547.5	60.67	26.506		
9,800.0	7,247.0	7,436.7	7,265.0	40.0	25.1	-90.00	-3,016.2	1,288.7	1,543.4	1,481.0	62.32	24.765		
9,900.0	7,247.0	7,436.7	7,265.0	41.6	25.1	-90.00	-3,016.2	1,288.7	1,482.5	1,418.5	63.98	23.172		
10,000.0	7,247.0	7,436.7	7,265.0	43.3	25.1	-90.00	-3,016.2	1,288.7	1,426.0	1,360.3	65.64	21.724		
10,100.0	7,247.0	7,436.7	7,265.0	45.0	25.1	-90.00	-3,016.2	1,288.7	1,374.5	1,307.1	67.31	20.419		
10,200.0	7,247.0	7,436.7	7,265.0	46.6	25.1	-90.00	-3,016.2	1,288.7	1,328.5	1,259.5	68.99	19.256		
10,300.0	7,247.0	7,436.7	7,265.0	48.3	25.1	-90.00	-3,016.2	1,288.7	1,288.6	1,218.0	70.67	18.234		
10,400.0	7,247.0	7,436.7	7,265.0	50.0	25.1	-90.00	-3,016.2	1,288.7	1,255.5	1,183.1	72.36	17.351		
10,500.0	7,247.0	7,436.7	7,265.0	51.7	25.1	-90.00	-3,016.2	1,288.7	1,229.6	1,155.6	74.05	16.605		
10,600.0	7,247.0	7,436.7	7,265.0	53.4	25.1	-90.00	-3,016.2	1,288.7	1,211.5	1,135.7	75.75	15.994		
10,700.0	7,247.0	7,436.7	7,265.0	55.1	25.1	-90.00	-3,016.2	1,288.7	1,201.4	1,124.0	77.45	15.513		
10,771.4	7,247.0	7,436.7	7,265.0	56.3	25.1	-90.00	-3,016.2	1,288.7	1,199.3	1,120.6	78.66	15.246 CC		
10,800.0	7,247.0	7,436.7	7,265.0	56.8	25.1	-90.00	-3,016.2	1,288.7	1,199.6	1,120.5	79.15	15.157 ES		
10,900.0	7,247.0	7,436.7	7,265.0	58.5	25.1	-90.00	-3,016.2	1,288.7	1,206.2	1,125.3	80.85	14.918		
11,000.0	7,247.0	7,436.7	7,265.0	60.2	25.1	-90.00	-3,016.2	1,288.7	1,220.9	1,138.3	82.56	14.787		
11,100.0	7,247.0	7,436.7	7,265.0	61.9	25.1	-90.00	-3,016.2	1,288.7	1,243.5	1,159.2	84.27	14.755 SF		
11,200.0	7,247.0	7,436.7	7,265.0	63.6	25.1	-90.00	-3,016.2	1,288.7	1,273.6	1,187.6	85.99	14.811		
11,300.0	7,247.0	7,436.7	7,265.0	65.4	25.1	-90.00	-3,016.2	1,288.7	1,310.6	1,222.9	87.70	14.944		
11,400.0	7,247.0	7,436.7	7,265.0	67.1	25.1	-90.00	-3,016.2	1,288.7	1,354.0	1,264.6	89.42	15.142		
11,500.0	7,247.0	7,436.7	7,265.0	68.8	25.1	-90.00	-3,016.2	1,288.7	1,403.3	1,312.1	91.14	15.397		
11,600.0	7,247.0	7,436.7	7,265.0	70.5	25.1	-90.00	-3,016.2	1,288.7	1,457.7	1,364.8	92.86	15.697		
11,700.0	7,247.0	7,436.7	7,265.0	72.2	25.1	-90.00	-3,016.2	1,288.7	1,516.8	1,422.2	94.59	16.036		
11,800.0	7,247.0	7,436.7	7,265.0	74.0	25.1	-90.00	-3,016.2	1,288.7	1,580.0	1,483.7	96.31	16.405		
11,816.8	7,247.0	7,436.7	7,265.0	74.2	25.1	-90.00	-3,016.2	1,288.7	1,591.0	1,494.4	96.60	16.470		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - McPeck #14-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 94-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	-159.92	-4,098.1	-1,498.4	4,363.4					
100.0	100.0	67.6	67.6	0.2	0.1	-159.92	-4,098.3	-1,498.3	4,363.7	4,363.4	0.25	N/A		
200.0	200.0	156.2	156.2	0.3	0.3	-159.93	-4,099.1	-1,497.9	4,364.4	4,363.8	0.58	7,567.673		
300.0	300.0	238.6	238.6	0.5	0.4	-159.93	-4,099.9	-1,498.1	4,365.4	4,364.5	0.90	4,876.278		
400.0	400.0	333.5	333.4	0.7	0.6	-159.90	-4,100.3	-1,500.8	4,366.7	4,365.5	1.24	3,515.964		
500.0	500.0	426.3	426.0	0.8	0.8	-159.81	-4,099.3	-1,507.1	4,368.1	4,366.5	1.60	2,721.786		
600.0	600.0	525.8	525.0	1.0	1.0	-166.53	-4,097.2	-1,517.2	4,370.5	4,368.5	2.02	2,166.576		
700.0	700.0	616.0	614.1	1.2	1.3	-166.34	-4,093.7	-1,530.7	4,374.6	4,372.1	2.47	1,770.272		
800.0	799.9	694.2	690.8	1.4	1.6	-166.14	-4,089.7	-1,545.7	4,380.8	4,377.9	2.94	1,491.314		
900.0	899.7	758.7	753.5	1.6	1.9	-165.94	-4,086.0	-1,560.0	4,389.4	4,386.0	3.38	1,296.828		
1,000.0	999.4	828.0	820.4	1.8	2.2	-165.69	-4,082.1	-1,577.5	4,400.7	4,396.8	3.88	1,133.103		
1,100.0	1,098.9	916.9	905.8	2.0	2.6	-165.36	-4,076.7	-1,601.9	4,414.3	4,409.8	4.51	978.480		
1,200.0	1,198.3	972.1	958.5	2.2	2.9	-165.13	-4,073.2	-1,617.6	4,429.9	4,424.9	4.97	891.514		
1,300.0	1,297.4	1,033.2	1,017.0	2.5	3.3	-164.88	-4,069.9	-1,635.0	4,448.2	4,442.7	5.46	814.795		
1,400.0	1,396.3	1,108.5	1,089.0	2.8	3.7	-164.58	-4,066.0	-1,656.8	4,468.7	4,462.7	6.03	740.596		
1,500.0	1,494.9	1,177.0	1,154.2	3.1	4.1	-164.29	-4,062.8	-1,677.4	4,491.6	4,485.0	6.58	682.206		
1,600.0	1,593.3	1,271.0	1,243.3	3.4	4.7	-163.89	-4,057.9	-1,707.2	4,516.6	4,509.3	7.31	617.931		
1,700.0	1,691.2	1,349.8	1,317.4	3.8	5.2	-163.52	-4,053.2	-1,733.6	4,543.3	4,535.4	7.98	569.523		
1,800.0	1,788.9	1,427.4	1,389.7	4.2	5.7	-163.14	-4,048.0	-1,761.3	4,572.2	4,563.5	8.68	526.831		
1,900.0	1,886.3	1,494.4	1,451.3	4.6	6.2	-162.86	-4,043.0	-1,787.0	4,602.3	4,592.9	9.37	491.084		
2,000.0	1,983.7	1,552.0	1,503.6	5.0	6.7	-162.59	-4,038.3	-1,810.8	4,633.2	4,623.2	10.02	462.345		
2,100.0	2,081.2	1,631.9	1,575.4	5.4	7.4	-162.21	-4,031.5	-1,845.1	4,664.8	4,653.9	10.85	429.755		
2,200.0	2,178.6	1,711.1	1,646.4	5.8	8.1	-161.84	-4,024.7	-1,879.4	4,696.7	4,685.1	11.70	401.566		
2,300.0	2,276.1	1,785.0	1,712.6	6.2	8.7	-161.49	-4,018.5	-1,911.7	4,729.2	4,716.9	12.49	378.760		
2,400.0	2,373.5	1,861.6	1,781.5	6.6	9.3	-161.14	-4,012.6	-1,944.6	4,762.2	4,748.9	13.29	358.272		
2,500.0	2,470.9	1,950.8	1,861.9	7.0	10.1	-160.74	-4,005.9	-1,982.9	4,795.5	4,781.3	14.20	337.700		
2,600.0	2,568.4	2,020.0	1,924.2	7.4	10.6	-160.44	-4,000.7	-2,012.5	4,829.0	4,814.0	14.95	323.025		
2,700.0	2,665.8	2,093.7	1,990.5	7.8	11.3	-160.11	-3,995.3	-2,044.2	4,863.0	4,847.2	15.75	308.814		
2,800.0	2,763.2	2,282.2	2,160.5	8.3	12.8	-159.31	-3,981.3	-2,124.4	4,897.2	4,879.7	17.40	281.410		
2,900.0	2,860.7	2,377.3	2,246.8	8.7	13.6	-158.92	-3,973.3	-2,163.6	4,929.9	4,911.6	18.34	268.769		
3,000.0	2,958.1	2,465.4	2,326.8	9.1	14.3	-158.57	-3,966.1	-2,199.8	4,963.0	4,943.8	19.21	258.377		
3,100.0	3,055.6	2,560.7	2,413.6	9.5	15.0	-158.20	-3,958.6	-2,238.2	4,996.2	4,976.0	20.14	248.053		
3,200.0	3,153.0	2,636.8	2,482.8	10.0	15.6	-157.90	-3,952.4	-2,269.5	5,029.6	5,008.6	20.93	240.348		
3,300.0	3,250.4	2,769.0	2,603.4	10.4	16.7	-157.41	-3,942.1	-2,322.7	5,063.2	5,041.1	22.11	229.020		
3,400.0	3,347.9	2,846.8	2,674.4	10.8	17.3	-157.12	-3,935.7	-2,353.8	5,096.4	5,073.5	22.91	222.479		
3,500.0	3,445.3	2,916.6	2,737.9	11.2	17.9	-156.86	-3,929.9	-2,382.1	5,130.1	5,106.4	23.65	216.883		
3,600.0	3,542.7	2,997.6	2,811.5	11.7	18.5	-156.56	-3,923.3	-2,415.4	5,164.2	5,139.7	24.48	210.920		
3,700.0	3,640.2	3,079.4	2,885.7	12.1	19.2	-156.25	-3,916.6	-2,449.1	5,198.6	5,173.2	25.34	205.163		
3,800.0	3,737.6	3,144.0	2,943.7	12.5	19.8	-156.00	-3,910.9	-2,476.8	5,233.4	5,207.3	26.09	200.604		
3,815.0	3,752.2	3,144.0	2,943.7	12.6	19.8	-156.00	-3,910.9	-2,476.8	5,238.7	5,212.6	26.12	200.537		
3,900.0	3,835.2	3,210.5	3,003.1	12.9	20.3	-155.86	-3,904.9	-2,506.1	5,268.3	5,241.4	26.91	195.756		
4,000.0	3,933.1	3,344.3	3,123.3	13.3	21.5	-155.49	-3,893.2	-2,564.0	5,301.9	5,273.7	28.23	187.802		
4,100.0	4,031.4	3,455.9	3,224.6	13.6	22.3	-155.22	-3,884.1	-2,609.9	5,333.4	5,304.1	29.32	181.888		
4,200.0	4,130.0	3,628.8	3,383.4	14.0	23.6	-154.76	-3,871.1	-2,677.0	5,363.0	5,332.2	30.79	174.201		
4,300.0	4,228.9	3,745.8	3,491.0	14.3	24.5	-154.47	-3,860.8	-2,721.7	5,389.7	5,357.9	31.86	169.189		
4,400.0	4,328.0	3,813.2	3,553.3	14.6	25.0	-154.36	-3,855.4	-2,746.8	5,415.4	5,382.9	32.56	166.335		
4,500.0	4,427.3	3,893.0	3,626.9	14.8	25.6	-154.20	-3,849.1	-2,777.0	5,440.0	5,406.6	33.35	163.136		
4,600.0	4,526.8	3,929.6	3,660.5	15.0	25.9	-154.18	-3,846.2	-2,791.2	5,463.8	5,430.0	33.83	161.524		
4,700.0	4,626.5	3,987.0	3,713.1	15.2	26.3	-154.07	-3,842.4	-2,813.9	5,487.4	5,453.0	34.44	159.343		
4,800.0	4,726.3	4,021.2	3,744.3	15.4	26.6	-154.05	-3,840.3	-2,827.7	5,510.3	5,475.4	34.87	158.012		
4,900.0	4,826.2	4,268.0	3,970.9	15.6	28.5	-153.23	-3,821.9	-2,923.6	5,529.8	5,493.0	36.74	150.528		
5,000.0	4,926.1	4,358.9	4,054.2	15.7	29.2	-152.97	-3,814.2	-2,959.1	5,548.0	5,510.4	37.55	147.741		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - McPeck #14-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 94-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	4,421.7	4,111.4	15.8	29.7	-152.80	-3,808.2	-2,984.5	5,564.9	5,526.7	38.17	145.809		
5,115.0	5,041.1	4,430.9	4,119.8	15.8	29.8	-145.92	-3,807.4	-2,988.2	5,567.4	5,529.1	38.25	145.534		
5,200.0	5,126.1	4,493.3	4,176.3	15.9	30.3	-145.67	-3,801.4	-3,013.9	5,581.5	5,542.7	38.83	143.724		
5,300.0	5,226.1	4,582.2	4,256.9	16.0	31.0	-145.30	-3,793.1	-3,050.6	5,598.6	5,558.9	39.61	141.350		
5,400.0	5,326.1	4,672.4	4,339.5	16.1	31.7	-144.96	-3,786.1	-3,086.0	5,615.8	5,575.5	40.34	139.228		
5,500.0	5,426.1	4,764.2	4,424.5	16.2	32.3	-144.64	-3,780.5	-3,120.3	5,633.4	5,592.4	41.04	137.251		
5,600.0	5,526.1	4,866.3	4,519.0	16.3	33.1	-144.28	-3,773.9	-3,158.3	5,650.8	5,609.0	41.83	135.084		
5,700.0	5,626.1	4,924.9	4,573.0	16.4	33.5	-144.07	-3,770.0	-3,180.6	5,668.9	5,626.5	42.35	133.854		
5,800.0	5,726.1	5,079.0	4,715.8	16.5	34.6	-143.54	-3,760.4	-3,237.7	5,686.7	5,643.3	43.40	131.028		
5,900.0	5,826.1	6,203.6	5,811.5	16.6	38.5	-141.60	-3,724.9	-3,450.5	5,699.0	5,652.1	46.83	121.699		
6,000.0	5,926.1	6,300.6	5,908.5	16.7	38.6	-141.60	-3,724.9	-3,450.6	5,699.1	5,652.1	47.03	121.185		
6,100.0	6,026.1	6,399.8	6,007.7	16.8	38.6	-141.61	-3,725.2	-3,450.5	5,699.2	5,652.0	47.22	120.688		
6,200.0	6,126.1	6,504.6	6,112.6	16.9	38.7	-141.62	-3,725.9	-3,449.8	5,699.4	5,652.0	47.41	120.217		
6,300.0	6,226.1	6,588.1	6,196.0	17.0	38.7	-141.63	-3,726.8	-3,449.0	5,699.6	5,652.0	47.59	119.764		
6,400.0	6,326.1	6,670.9	6,278.8	17.2	38.7	-141.64	-3,727.8	-3,448.4	5,700.1	5,652.3	47.77	119.320		
6,500.0	6,426.1	6,761.4	6,369.3	17.3	38.8	-141.65	-3,729.1	-3,447.9	5,700.9	5,652.9	47.96	118.868		
6,604.7	6,530.8	6,869.3	6,477.3	17.4	38.8	-141.66	-3,730.5	-3,447.5	5,701.8	5,653.6	48.17	118.376		
6,650.0	6,576.1	6,914.9	6,522.9	17.4	38.8	38.38	-3,731.1	-3,447.4	5,701.0	5,652.8	48.16	118.384		
6,700.0	6,625.8	6,961.1	6,569.1	17.4	38.9	38.58	-3,731.6	-3,447.4	5,697.5	5,649.6	47.95	118.812		
6,750.0	6,675.1	7,005.2	6,613.2	17.3	38.9	38.93	-3,732.1	-3,447.4	5,691.4	5,643.9	47.56	119.672		
6,800.0	6,723.7	7,046.2	6,654.1	17.2	38.9	39.44	-3,732.4	-3,447.6	5,682.7	5,635.7	46.98	120.968		
6,850.0	6,771.3	7,083.0	6,690.9	17.1	38.9	40.11	-3,732.7	-3,447.9	5,671.4	5,625.2	46.21	122.719		
6,900.0	6,817.8	7,123.6	6,731.5	16.9	39.0	40.96	-3,733.0	-3,448.3	5,657.6	5,612.3	45.29	124.925		
6,950.0	6,862.9	7,160.0	6,767.9	16.7	39.0	41.98	-3,733.3	-3,448.8	5,641.4	5,597.2	44.21	127.614		
7,000.0	6,906.3	7,193.7	6,801.6	16.4	39.0	43.19	-3,733.6	-3,449.3	5,622.9	5,579.9	42.99	130.800		
7,050.0	6,948.0	7,224.9	6,832.8	16.1	39.1	44.59	-3,733.9	-3,449.8	5,602.2	5,560.5	41.65	134.493		
7,100.0	6,987.6	7,254.7	6,862.6	15.9	39.1	46.20	-3,734.3	-3,450.3	5,579.3	5,539.1	40.23	138.690		
7,150.0	7,024.9	7,287.8	6,895.7	15.6	39.1	48.07	-3,734.7	-3,451.0	5,554.5	5,515.8	38.74	143.371		
7,200.0	7,059.9	7,326.1	6,934.0	15.3	39.1	50.24	-3,735.1	-3,451.7	5,527.8	5,490.6	37.23	148.484		
7,250.0	7,092.3	7,361.5	6,969.4	15.0	39.2	52.68	-3,735.5	-3,452.4	5,499.3	5,463.6	35.72	153.939		
7,300.0	7,121.9	7,387.7	6,995.5	14.7	39.2	55.35	-3,735.8	-3,452.9	5,469.2	5,434.9	34.27	159.599		
7,350.0	7,148.7	7,410.5	7,018.4	14.4	39.2	58.28	-3,736.0	-3,453.4	5,437.7	5,404.8	32.91	165.243		
7,400.0	7,172.4	7,431.0	7,038.8	14.2	39.2	61.50	-3,736.3	-3,453.8	5,405.0	5,373.3	31.68	170.602		
7,450.0	7,193.1	7,448.9	7,056.7	13.9	39.2	64.98	-3,736.6	-3,454.1	5,371.2	5,340.5	30.63	175.376		
7,500.0	7,210.5	7,460.0	7,067.8	13.8	39.3	68.67	-3,736.7	-3,454.4	5,336.5	5,306.7	29.76	179.321		
7,550.0	7,224.6	7,477.8	7,085.6	13.6	39.3	72.70	-3,737.0	-3,454.7	5,301.1	5,272.0	29.10	182.193		
7,600.0	7,235.3	7,488.1	7,095.9	13.5	39.3	76.83	-3,737.2	-3,454.9	5,265.1	5,236.5	28.61	184.018		
7,650.0	7,242.6	7,495.4	7,103.2	13.5	39.3	81.08	-3,737.3	-3,455.0	5,228.9	5,200.6	28.29	184.844		
7,700.0	7,246.4	7,499.6	7,107.4	13.5	39.3	85.37	-3,737.4	-3,455.1	5,192.5	5,164.4	28.10	184.779		
7,729.7	7,247.0	7,500.6	7,108.4	13.6	39.3	87.91	-3,737.4	-3,455.1	5,170.8	5,142.8	28.05	184.348		
7,800.0	7,247.0	7,501.7	7,109.5	13.7	39.3	87.92	-3,737.4	-3,455.1	5,119.9	5,091.7	28.23	181.385		
7,900.0	7,247.0	7,503.2	7,111.0	14.2	39.3	87.95	-3,737.4	-3,455.2	5,048.3	5,019.6	28.66	176.128		
8,000.0	7,247.0	7,504.8	7,112.6	14.8	39.3	87.97	-3,737.4	-3,455.2	4,977.6	4,948.3	29.30	169.909		
8,100.0	7,247.0	7,506.3	7,114.1	15.6	39.3	88.00	-3,737.5	-3,455.2	4,907.9	4,877.8	30.10	163.043		
8,200.0	7,247.0	7,507.9	7,115.7	16.5	39.3	88.02	-3,737.5	-3,455.3	4,839.4	4,808.3	31.06	155.823		
8,300.0	7,247.0	7,509.5	7,117.3	17.6	39.3	88.05	-3,737.5	-3,455.3	4,771.9	4,739.8	32.14	148.494		
8,400.0	7,247.0	7,511.0	7,118.9	18.8	39.3	88.08	-3,737.6	-3,455.3	4,705.6	4,672.3	33.32	141.240		
8,500.0	7,247.0	7,512.6	7,120.5	20.1	39.3	88.10	-3,737.6	-3,455.3	4,640.5	4,605.9	34.58	134.189		
8,600.0	7,247.0	7,514.2	7,122.1	21.4	39.3	88.13	-3,737.6	-3,455.4	4,576.6	4,540.7	35.92	127.424		
8,700.0	7,247.0	7,515.9	7,123.7	22.8	39.3	88.15	-3,737.6	-3,455.4	4,514.1	4,476.8	37.31	120.993		
8,800.0	7,247.0	7,517.5	7,125.3	24.2	39.3	88.18	-3,737.7	-3,455.4	4,452.9	4,414.2	38.75	114.920		
8,900.0	7,247.0	7,519.1	7,126.9	25.7	39.3	88.21	-3,737.7	-3,455.5	4,393.2	4,353.0	40.23	109.210		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - McPeck #14-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 94-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			
9,000.0	7,247.0	7,520.8	7,128.6	27.2	39.3	88.23	-3,737.7	-3,455.5	4,334.9	4,293.2	41.74	103.859		
9,100.0	7,247.0	7,522.4	7,130.2	28.7	39.3	88.26	-3,737.8	-3,455.5	4,278.2	4,234.9	43.28	98.854		
9,200.0	7,247.0	7,524.1	7,131.9	30.3	39.3	88.29	-3,737.8	-3,455.6	4,223.1	4,178.2	44.84	94.179		
9,300.0	7,247.0	7,525.8	7,133.6	31.9	39.3	88.31	-3,737.8	-3,455.6	4,169.6	4,123.2	46.42	89.816		
9,400.0	7,247.0	7,527.5	7,135.3	33.5	39.3	88.34	-3,737.8	-3,455.6	4,117.9	4,069.9	48.02	85.746		
9,500.0	7,247.0	7,529.2	7,137.0	35.1	39.3	88.37	-3,737.9	-3,455.6	4,068.0	4,018.4	49.64	81.951		
9,600.0	7,247.0	7,530.9	7,138.7	36.7	39.3	88.40	-3,737.9	-3,455.7	4,020.0	3,968.7	51.27	78.411		
9,700.0	7,247.0	7,532.6	7,140.4	38.3	39.3	88.42	-3,737.9	-3,455.7	3,973.9	3,921.0	52.91	75.110		
9,800.0	7,247.0	7,534.3	7,142.1	40.0	39.3	88.45	-3,738.0	-3,455.7	3,929.8	3,875.2	54.56	72.031		
9,900.0	7,247.0	7,536.1	7,143.9	41.6	39.3	88.48	-3,738.0	-3,455.8	3,887.7	3,831.5	56.21	69.159		
10,000.0	7,247.0	7,537.8	7,145.7	43.3	39.3	88.51	-3,738.0	-3,455.8	3,847.9	3,790.0	57.88	66.479		
10,100.0	7,247.0	7,539.6	7,147.4	45.0	39.3	88.54	-3,738.1	-3,455.8	3,810.2	3,750.6	59.55	63.979		
10,200.0	7,247.0	7,541.4	7,149.2	46.6	39.3	88.57	-3,738.1	-3,455.9	3,774.8	3,713.5	61.23	61.647		
10,300.0	7,247.0	7,543.2	7,151.0	48.3	39.3	88.59	-3,738.1	-3,455.9	3,741.7	3,678.8	62.92	59.471		
10,400.0	7,247.0	7,545.0	7,152.8	50.0	39.3	88.62	-3,738.2	-3,455.9	3,711.0	3,646.4	64.61	57.441		
10,500.0	7,247.0	7,546.8	7,154.6	51.7	39.3	88.65	-3,738.2	-3,456.0	3,682.8	3,616.5	66.30	55.548		
10,600.0	7,247.0	7,548.6	7,156.5	53.4	39.3	88.68	-3,738.2	-3,456.0	3,657.1	3,589.1	68.00	53.783		
10,700.0	7,247.0	7,550.5	7,158.3	55.1	39.3	88.71	-3,738.3	-3,456.0	3,634.0	3,564.3	69.70	52.139		
10,800.0	7,247.0	7,552.4	7,160.2	56.8	39.3	88.74	-3,738.3	-3,456.1	3,613.5	3,542.1	71.40	50.606		
10,900.0	7,247.0	7,554.2	7,162.0	58.5	39.3	88.77	-3,738.3	-3,456.1	3,595.6	3,522.5	73.11	49.180		
11,000.0	7,247.0	7,557.8	7,165.6	60.2	39.3	88.83	-3,738.4	-3,456.2	3,580.5	3,505.7	74.82	47.852		
11,100.0	7,247.0	7,562.2	7,170.0	61.9	39.3	88.90	-3,738.5	-3,456.2	3,568.1	3,491.5	76.54	46.616		
11,200.0	7,247.0	7,566.3	7,174.1	63.6	39.3	88.97	-3,738.5	-3,456.3	3,558.4	3,480.2	78.26	45.470		
11,300.0	7,247.0	7,570.1	7,177.9	65.4	39.3	89.03	-3,738.6	-3,456.4	3,551.6	3,471.6	79.98	44.406		
11,400.0	7,247.0	7,573.6	7,181.4	67.1	39.3	89.09	-3,738.7	-3,456.4	3,547.6	3,465.8	81.70	43.420		
11,493.6	7,247.0	7,576.7	7,184.5	68.7	39.3	89.14	-3,738.7	-3,456.5	3,546.3	3,463.0	83.32	42.565 CC		
11,500.0	7,247.0	7,576.9	7,184.7	68.8	39.3	89.14	-3,738.7	-3,456.5	3,546.3	3,462.9	83.43	42.509		
11,600.0	7,247.0	7,579.9	7,187.7	70.5	39.3	89.19	-3,738.8	-3,456.5	3,547.9	3,462.8	85.15	41.666 ES		
11,700.0	7,247.0	7,582.7	7,190.5	72.2	39.3	89.23	-3,738.8	-3,456.6	3,552.3	3,465.4	86.88	40.889		
11,800.0	7,247.0	7,585.4	7,193.2	74.0	39.3	89.28	-3,738.8	-3,456.6	3,559.5	3,470.9	88.60	40.173		
11,816.8	7,247.0	7,585.8	7,193.6	74.2	39.3	89.28	-3,738.8	-3,456.6	3,561.0	3,472.1	88.90	40.058 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - McPeek #24-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 183-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	-160.02	-4,083.5	-1,484.4	4,345.0					
100.0	100.0	90.4	90.4	0.2	0.1	-160.03	-4,083.6	-1,484.2	4,345.0	4,344.7	0.30	N/A		
200.0	200.0	189.6	189.6	0.3	0.3	-160.03	-4,083.8	-1,483.6	4,345.0	4,344.4	0.64	6,834.736		
300.0	300.0	288.2	288.2	0.5	0.5	-160.05	-4,084.2	-1,482.8	4,345.0	4,344.1	0.98	4,420.703		
400.0	400.0	382.5	382.5	0.7	0.6	-160.05	-4,084.4	-1,482.3	4,345.1	4,343.8	1.32	3,286.804		
500.0	500.0	458.0	458.0	0.8	0.8	-160.05	-4,084.9	-1,482.5	4,345.7	4,344.0	1.63	2,669.897		
600.0	600.0	550.5	550.5	1.0	0.9	-166.89	-4,085.4	-1,483.5	4,347.5	4,345.5	1.96	2,214.993		
700.0	700.0	664.8	664.8	1.2	1.1	-166.87	-4,085.7	-1,485.2	4,350.7	4,348.4	2.34	1,862.471		
800.0	799.9	762.9	762.9	1.4	1.3	-166.85	-4,085.7	-1,486.9	4,355.6	4,353.0	2.68	1,624.311		
900.0	899.7	865.7	865.6	1.6	1.5	-166.83	-4,085.6	-1,489.0	4,362.1	4,359.1	3.04	1,436.920		
1,000.0	999.4	953.6	953.5	1.8	1.6	-166.81	-4,085.6	-1,490.8	4,370.5	4,367.1	3.36	1,299.148		
1,100.0	1,098.9	1,049.5	1,049.4	2.0	1.8	-166.79	-4,085.8	-1,493.0	4,380.8	4,377.0	3.71	1,181.663		
1,200.0	1,198.3	1,152.6	1,152.4	2.2	2.0	-166.76	-4,085.5	-1,496.2	4,392.6	4,388.5	4.06	1,080.592		
1,300.0	1,297.4	1,262.9	1,262.7	2.5	2.2	-166.72	-4,085.1	-1,499.9	4,406.1	4,401.6	4.44	993.100		
1,400.0	1,396.3	1,352.1	1,351.8	2.8	2.4	-166.69	-4,084.6	-1,502.8	4,421.1	4,416.3	4.77	926.580		
1,500.0	1,494.9	1,459.0	1,458.7	3.1	2.6	-166.66	-4,084.2	-1,506.3	4,437.9	4,432.8	5.14	863.645		
1,600.0	1,593.3	1,536.0	1,535.5	3.4	2.7	-166.61	-4,083.6	-1,509.7	4,456.5	4,451.0	5.46	816.365		
1,700.0	1,691.2	1,769.9	1,768.7	3.8	3.2	-166.47	-4,076.0	-1,526.2	4,474.9	4,468.8	6.11	732.967		
1,800.0	1,788.9	1,833.0	1,831.5	4.2	3.3	-166.38	-4,072.5	-1,532.1	4,494.2	4,487.8	6.42	699.827		
1,900.0	1,886.3	1,900.5	1,898.5	4.6	3.5	-166.32	-4,068.9	-1,539.5	4,515.0	4,508.2	6.77	666.768		
2,000.0	1,983.7	1,927.0	1,924.8	5.0	3.5	-166.29	-4,067.6	-1,542.7	4,537.1	4,530.0	7.03	645.709		
2,100.0	2,081.2	1,987.6	1,984.7	5.4	3.7	-166.22	-4,065.2	-1,551.1	4,560.1	4,552.8	7.38	618.001		
2,200.0	2,178.6	2,046.6	2,042.9	5.8	3.9	-166.14	-4,063.3	-1,560.6	4,584.4	4,576.7	7.73	592.975		
2,300.0	2,276.1	2,163.8	2,158.4	6.2	4.2	-165.96	-4,059.1	-1,580.1	4,608.7	4,600.5	8.26	558.240		
2,400.0	2,373.5	2,235.6	2,229.1	6.6	4.4	-165.85	-4,056.3	-1,592.5	4,633.0	4,624.3	8.66	534.803		
2,500.0	2,470.9	2,302.0	2,294.4	7.0	4.6	-165.75	-4,054.4	-1,604.4	4,658.3	4,649.2	9.06	514.199		
2,600.0	2,568.4	2,413.6	2,404.0	7.4	5.0	-165.57	-4,051.1	-1,624.8	4,683.8	4,674.2	9.61	487.486		
2,700.0	2,665.8	2,492.3	2,481.3	7.8	5.2	-165.44	-4,048.3	-1,639.7	4,709.1	4,699.0	10.07	467.828		
2,800.0	2,763.2	2,632.0	2,618.5	8.3	5.7	-165.21	-4,043.3	-1,665.4	4,734.0	4,723.3	10.71	441.814		
2,900.0	2,860.7	2,735.6	2,720.4	8.7	6.0	-165.06	-4,039.2	-1,683.5	4,758.5	4,747.2	11.25	422.889		
3,000.0	2,958.1	2,844.0	2,827.0	9.1	6.4	-164.89	-4,034.7	-1,702.9	4,782.9	4,771.1	11.82	404.624		
3,100.0	3,055.6	2,941.4	2,922.5	9.5	6.8	-164.73	-4,030.0	-1,721.3	4,807.1	4,794.7	12.37	388.656		
3,200.0	3,153.0	3,024.9	3,004.3	10.0	7.1	-164.59	-4,026.0	-1,737.4	4,831.5	4,818.6	12.87	375.504		
3,300.0	3,250.4	3,099.0	3,077.0	10.4	7.3	-164.47	-4,022.8	-1,751.5	4,856.2	4,842.9	13.33	364.177		
3,400.0	3,347.9	3,208.0	3,183.9	10.8	7.7	-164.29	-4,018.3	-1,772.6	4,881.4	4,867.4	13.93	350.406		
3,500.0	3,445.3	3,318.5	3,292.3	11.2	8.1	-164.12	-4,013.4	-1,793.2	4,905.9	4,891.4	14.52	337.782		
3,600.0	3,542.7	3,381.9	3,354.5	11.7	8.4	-164.02	-4,010.7	-1,805.0	4,930.8	4,915.8	14.96	329.515		
3,700.0	3,640.2	3,488.3	3,458.7	12.1	8.8	-163.84	-4,006.5	-1,826.0	4,956.2	4,940.7	15.56	318.581		
3,800.0	3,737.6	3,589.8	3,558.5	12.5	9.1	-163.70	-4,002.3	-1,844.5	4,981.1	4,964.9	16.12	309.017		
3,815.0	3,752.2	3,601.8	3,570.3	12.6	9.2	-163.68	-4,001.8	-1,846.7	4,984.8	4,968.6	16.19	307.861		
3,900.0	3,835.2	3,720.0	3,686.4	12.9	9.6	-163.57	-3,997.0	-1,867.9	5,005.3	4,988.5	16.81	297.719		
4,000.0	3,933.1	3,869.5	3,833.0	13.3	10.2	-163.39	-3,988.2	-1,895.8	5,026.4	5,008.8	17.61	285.446		
4,100.0	4,031.4	3,894.0	3,857.0	13.6	10.3	-163.41	-3,986.7	-1,900.5	5,046.5	5,028.6	17.92	281.544		
4,200.0	4,130.0	3,987.0	3,948.5	14.0	10.6	-163.33	-3,983.1	-1,916.8	5,065.9	5,047.4	18.44	274.703		
4,300.0	4,228.9	4,195.0	4,154.4	14.3	11.2	-163.14	-3,976.1	-1,945.9	5,082.9	5,063.6	19.27	263.753		
4,400.0	4,328.0	4,268.0	4,226.8	14.6	11.4	-163.11	-3,973.4	-1,954.5	5,097.1	5,077.4	19.67	259.124		
4,500.0	4,427.3	4,330.3	4,288.8	14.8	11.5	-163.11	-3,972.2	-1,960.6	5,110.2	5,090.2	19.99	255.589		
4,600.0	4,526.8	4,430.9	4,389.1	15.0	11.7	-163.10	-3,972.1	-1,967.8	5,122.4	5,102.0	20.37	251.409		
4,700.0	4,626.5	4,651.0	4,609.1	15.2	12.0	-163.12	-3,971.3	-1,973.8	5,130.3	5,109.4	20.86	245.896		
4,800.0	4,726.3	4,737.0	4,695.1	15.4	12.1	-163.14	-3,971.0	-1,975.1	5,136.7	5,115.5	21.16	242.775		
4,900.0	4,826.2	4,830.0	4,788.1	15.6	12.3	-163.15	-3,970.9	-1,976.7	5,141.6	5,120.2	21.46	239.641		
5,000.0	4,926.1	4,900.8	4,858.8	15.7	12.4	-163.16	-3,971.0	-1,977.9	5,145.3	5,123.5	21.71	236.962		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - McPeck #24-10 (Existing) - Existing - Existing												Offset Site Error: 0.0 ft	
Survey Program: 183-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
5,100.0	5,026.1	4,995.3	4,953.3	15.8	12.5	-163.15	-3,971.6	-1,979.6	5,147.6	5,125.6	22.00	234.016	
5,115.0	5,041.1	5,010.8	4,968.9	15.8	12.5	-156.30	-3,971.7	-1,979.9	5,147.8	5,125.8	22.04	233.554	
5,200.0	5,126.1	5,098.5	5,056.5	15.9	12.7	-156.28	-3,972.1	-1,981.6	5,148.8	5,126.5	22.31	230.791	
5,300.0	5,226.1	5,219.2	5,177.2	16.0	12.8	-156.25	-3,972.1	-1,984.5	5,149.8	5,127.1	22.66	227.295	
5,400.0	5,326.1	5,325.6	5,283.6	16.1	13.0	-156.23	-3,971.8	-1,987.1	5,150.5	5,127.5	22.98	224.096	
5,500.0	5,426.1	5,468.6	5,426.5	16.2	13.2	-156.20	-3,971.2	-1,989.6	5,151.0	5,127.6	23.35	220.637	
5,600.0	5,526.1	5,568.1	5,526.0	16.3	13.3	-156.20	-3,971.0	-1,989.5	5,150.7	5,127.1	23.64	217.912	
5,665.0	5,591.1	5,624.2	5,582.1	16.4	13.4	-156.20	-3,970.9	-1,989.6	5,150.6	5,126.8	23.82	216.262	
5,700.0	5,626.1	5,654.1	5,612.0	16.4	13.4	-156.20	-3,970.9	-1,989.7	5,150.7	5,126.7	23.91	215.387	
5,800.0	5,726.1	5,741.9	5,699.8	16.5	13.6	-156.19	-3,970.9	-1,990.0	5,150.9	5,126.7	24.20	212.879	
5,900.0	5,826.1	5,831.6	5,789.5	16.6	13.7	-156.19	-3,971.1	-1,990.7	5,151.3	5,126.8	24.48	210.397	
6,000.0	5,926.1	5,924.4	5,882.3	16.7	13.8	-156.18	-3,971.4	-1,991.4	5,151.9	5,127.2	24.78	207.942	
6,100.0	6,026.1	6,011.5	5,969.4	16.8	13.9	-156.18	-3,971.8	-1,992.1	5,152.7	5,127.6	25.06	205.604	
6,200.0	6,126.1	6,193.7	6,151.6	16.9	14.2	-156.16	-3,971.7	-1,993.5	5,153.1	5,127.6	25.48	202.202	
6,300.0	6,226.1	6,352.5	6,310.4	17.0	14.4	-156.15	-3,969.4	-1,993.7	5,151.8	5,125.9	25.88	199.096	
6,400.0	6,326.1	6,457.3	6,415.1	17.2	14.5	-156.14	-3,967.4	-1,993.3	5,149.9	5,123.7	26.19	196.673	
6,500.0	6,426.1	6,556.1	6,514.0	17.3	14.7	-156.15	-3,965.8	-1,992.4	5,148.0	5,121.5	26.48	194.394	
6,604.7	6,530.8	6,661.1	6,619.0	17.4	14.8	-156.15	-3,964.2	-1,991.1	5,146.0	5,119.2	26.79	192.071	
6,650.0	6,576.1	6,707.0	6,664.8	17.4	14.9	23.93	-3,963.5	-1,990.5	5,143.9	5,117.0	26.85	191.564	
6,700.0	6,625.8	6,750.4	6,708.2	17.4	14.9	24.12	-3,962.9	-1,989.8	5,138.5	5,111.6	26.84	191.476	
6,750.0	6,675.1	6,791.8	6,749.6	17.3	15.0	24.43	-3,962.4	-1,989.3	5,130.0	5,103.2	26.74	191.820	
6,800.0	6,723.7	6,846.0	6,803.8	17.2	15.0	24.88	-3,961.7	-1,988.6	5,118.4	5,091.8	26.60	192.406	
6,850.0	6,771.3	6,903.2	6,860.9	17.1	15.1	25.49	-3,960.9	-1,988.0	5,103.7	5,077.3	26.40	193.298	
6,900.0	6,817.8	6,960.8	6,918.6	16.9	15.2	26.27	-3,959.8	-1,987.4	5,085.9	5,059.8	26.15	194.466	
6,950.0	6,862.9	7,019.6	6,977.3	16.7	15.3	27.23	-3,958.6	-1,986.8	5,065.2	5,039.3	25.86	195.847	
7,000.0	6,906.3	7,078.9	7,036.7	16.4	15.3	28.41	-3,957.2	-1,986.2	5,041.5	5,016.0	25.55	197.354	
7,050.0	6,948.0	7,190.4	7,148.1	16.1	15.5	30.05	-3,953.6	-1,984.8	5,014.9	4,989.6	25.31	198.123	
7,100.0	6,987.6	7,272.0	7,229.6	15.9	15.6	31.92	-3,950.1	-1,983.2	4,985.3	4,960.2	25.05	199.038	
7,150.0	7,024.9	7,302.7	7,260.2	15.6	15.6	33.90	-3,948.7	-1,982.6	4,953.3	4,928.5	24.73	200.330	
7,200.0	7,059.9	7,325.1	7,282.6	15.3	15.7	36.19	-3,947.7	-1,982.2	4,919.2	4,894.7	24.45	201.230	
7,250.0	7,092.3	7,345.7	7,303.2	15.0	15.7	38.87	-3,946.8	-1,981.8	4,883.2	4,859.0	24.25	201.382	
7,300.0	7,121.9	7,367.0	7,324.5	14.7	15.7	42.05	-3,945.9	-1,981.6	4,845.5	4,821.4	24.17	200.476	
7,350.0	7,148.7	7,367.0	7,324.5	14.4	15.7	45.55	-3,945.9	-1,981.6	4,806.4	4,782.2	24.17	198.883	
7,400.0	7,172.4	7,367.0	7,324.5	14.2	15.7	49.62	-3,945.9	-1,981.6	4,765.9	4,741.6	24.31	196.046	
7,450.0	7,193.1	7,397.7	7,355.1	13.9	15.8	54.87	-3,944.7	-1,981.2	4,724.1	4,699.4	24.72	191.117	
7,500.0	7,210.5	7,405.6	7,363.0	13.8	15.8	60.54	-3,944.4	-1,981.2	4,681.4	4,656.3	25.17	186.005	
7,550.0	7,224.6	7,411.8	7,369.2	13.6	15.8	66.95	-3,944.2	-1,981.1	4,638.0	4,612.3	25.67	180.664	
7,600.0	7,235.3	7,416.4	7,373.8	13.5	15.8	74.02	-3,944.1	-1,981.1	4,594.0	4,567.9	26.14	175.765	
7,650.0	7,242.6	7,419.3	7,376.7	13.5	15.8	81.56	-3,944.0	-1,981.0	4,549.7	4,523.3	26.47	171.910	
7,700.0	7,246.4	7,420.5	7,377.9	13.5	15.8	89.30	-3,943.9	-1,981.0	4,505.3	4,478.7	26.59	169.460	
7,729.7	7,247.0	7,420.3	7,377.8	13.6	15.8	93.86	-3,944.0	-1,981.0	4,479.0	4,452.4	26.55	168.688	
7,800.0	7,247.0	7,419.3	7,376.7	13.7	15.8	93.83	-3,944.0	-1,981.0	4,416.8	4,390.1	26.73	165.256	
7,900.0	7,247.0	7,417.7	7,375.1	14.2	15.8	93.79	-3,944.0	-1,981.0	4,328.8	4,301.6	27.16	159.388	
8,000.0	7,247.0	7,416.0	7,373.5	14.8	15.8	93.74	-3,944.1	-1,981.1	4,241.3	4,213.5	27.79	152.633	
8,100.0	7,247.0	7,414.4	7,371.8	15.6	15.8	93.70	-3,944.1	-1,981.1	4,154.4	4,125.8	28.59	145.313	
8,200.0	7,247.0	7,412.7	7,370.1	16.5	15.8	93.65	-3,944.2	-1,981.1	4,068.0	4,038.5	29.54	137.720	
8,300.0	7,247.0	7,410.9	7,368.3	17.6	15.8	93.60	-3,944.2	-1,981.1	3,982.3	3,951.7	30.61	130.093	
8,400.0	7,247.0	7,409.1	7,366.6	18.8	15.8	93.55	-3,944.3	-1,981.1	3,897.3	3,865.5	31.79	122.608	
8,500.0	7,247.0	7,407.3	7,364.7	20.1	15.8	93.50	-3,944.4	-1,981.1	3,813.0	3,780.0	33.05	115.383	
8,600.0	7,247.0	7,405.4	7,362.8	21.4	15.8	93.45	-3,944.4	-1,981.2	3,729.5	3,695.2	34.38	108.492	
8,700.0	7,247.0	7,403.5	7,360.9	22.8	15.8	93.40	-3,944.5	-1,981.2	3,646.9	3,611.1	35.76	101.974	
8,800.0	7,247.0	7,401.5	7,358.9	24.2	15.8	93.34	-3,944.6	-1,981.2	3,565.1	3,527.9	37.20	95.844	

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (lone) - McPeek #24-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 183-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	7,247.0	7,399.5	7,356.9	25.7	15.8	93.29	-3,944.6	-1,981.2	3,484.2	3,445.5	38.67	90.102		
9,000.0	7,247.0	7,397.4	7,354.8	27.2	15.8	93.23	-3,944.7	-1,981.2	3,404.4	3,364.2	40.18	84.737		
9,100.0	7,247.0	7,395.2	7,352.7	28.7	15.8	93.17	-3,944.8	-1,981.3	3,325.6	3,283.9	41.71	79.732		
9,200.0	7,247.0	7,393.0	7,350.5	30.3	15.8	93.11	-3,944.9	-1,981.3	3,248.1	3,204.8	43.27	75.069		
9,300.0	7,247.0	7,390.8	7,348.2	31.9	15.8	93.05	-3,944.9	-1,981.3	3,171.7	3,126.9	44.85	70.726		
9,400.0	7,247.0	7,388.4	7,345.9	33.5	15.8	92.98	-3,945.0	-1,981.3	3,096.8	3,050.3	46.44	66.682		
9,500.0	7,247.0	7,386.0	7,343.5	35.1	15.8	92.92	-3,945.1	-1,981.4	3,023.2	2,975.2	48.05	62.917		
9,600.0	7,247.0	7,383.6	7,341.0	36.7	15.8	92.85	-3,945.2	-1,981.4	2,951.2	2,901.6	49.67	59.412		
9,700.0	7,247.0	7,367.0	7,324.5	38.3	15.7	92.39	-3,945.9	-1,981.6	2,881.0	2,829.7	51.30	56.160		
9,800.0	7,247.0	7,367.0	7,324.5	40.0	15.7	92.39	-3,945.9	-1,981.6	2,812.5	2,759.5	52.95	53.119		
9,900.0	7,247.0	7,367.0	7,324.5	41.6	15.7	92.39	-3,945.9	-1,981.6	2,745.9	2,691.3	54.60	50.289		
10,000.0	7,247.0	7,367.0	7,324.5	43.3	15.7	92.39	-3,945.9	-1,981.6	2,681.3	2,625.1	56.26	47.656		
10,100.0	7,247.0	7,367.0	7,324.5	45.0	15.7	92.39	-3,945.9	-1,981.6	2,619.0	2,561.1	57.93	45.208		
10,200.0	7,247.0	7,367.0	7,324.5	46.6	15.7	92.39	-3,945.9	-1,981.6	2,559.1	2,499.5	59.61	42.932		
10,300.0	7,247.0	7,367.0	7,324.5	48.3	15.7	92.39	-3,945.9	-1,981.6	2,501.8	2,440.5	61.29	40.819		
10,400.0	7,247.0	7,367.0	7,324.5	50.0	15.7	92.39	-3,945.9	-1,981.6	2,447.2	2,384.2	62.98	38.860		
10,500.0	7,247.0	7,367.0	7,324.5	51.7	15.7	92.39	-3,945.9	-1,981.6	2,395.6	2,330.9	64.67	37.045		
10,600.0	7,247.0	7,354.3	7,311.8	53.4	15.7	92.04	-3,946.4	-1,981.7	2,347.0	2,280.6	66.35	35.370		
10,700.0	7,247.0	7,351.1	7,308.5	55.1	15.7	91.95	-3,946.6	-1,981.8	2,301.7	2,233.7	68.05	33.824		
10,800.0	7,247.0	7,347.8	7,305.2	56.8	15.7	91.86	-3,946.7	-1,981.8	2,260.0	2,190.3	69.75	32.401		
10,900.0	7,247.0	7,344.4	7,301.9	58.5	15.7	91.77	-3,946.8	-1,981.9	2,222.0	2,150.6	71.45	31.097		
11,000.0	7,247.0	7,341.1	7,298.6	60.2	15.7	91.67	-3,947.0	-1,981.9	2,187.9	2,114.8	73.16	29.906		
11,100.0	7,247.0	7,337.7	7,295.2	61.9	15.7	91.58	-3,947.1	-1,982.0	2,157.9	2,083.0	74.87	28.823		
11,200.0	7,247.0	7,334.3	7,291.8	63.6	15.7	91.49	-3,947.3	-1,982.0	2,132.2	2,055.6	76.58	27.843		
11,300.0	7,247.0	7,330.8	7,288.3	65.4	15.7	91.39	-3,947.4	-1,982.1	2,110.8	2,032.5	78.29	26.962		
11,400.0	7,247.0	7,327.4	7,284.9	67.1	15.7	91.30	-3,947.6	-1,982.1	2,094.1	2,014.1	80.00	26.174		
11,500.0	7,247.0	7,323.9	7,281.4	68.8	15.7	91.20	-3,947.7	-1,982.2	2,082.0	2,000.3	81.72	25.477		
11,600.0	7,247.0	7,320.4	7,277.9	70.5	15.7	91.10	-3,947.9	-1,982.2	2,074.6	1,991.2	83.44	24.864		
11,700.0	7,247.0	7,316.8	7,274.3	72.2	15.7	91.00	-3,948.1	-1,982.3	2,072.1	1,986.9	85.16	24.332		
11,703.1	7,247.0	7,316.7	7,274.2	72.3	15.7	91.00	-3,948.1	-1,982.3	2,072.1	1,986.9	85.21	24.317 CC, ES		
11,800.0	7,247.0	7,313.2	7,270.8	74.0	15.7	90.91	-3,948.2	-1,982.4	2,074.3	1,987.4	86.88	23.876		
11,816.8	7,247.0	7,312.6	7,270.2	74.2	15.7	90.89	-3,948.3	-1,982.4	2,075.2	1,988.0	87.17	23.807 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 14-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 94-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-155.98	-3,368.4	-1,500.9	3,687.7					
100.0	100.0	71.5	71.5	0.2	0.1	-155.99	-3,368.7	-1,500.8	3,687.9	3,687.7	0.26	N/A		
200.0	200.0	163.1	163.1	0.3	0.3	-156.00	-3,369.6	-1,500.4	3,688.6	3,688.0	0.59	6,263.122		
300.0	300.0	243.1	243.1	0.5	0.4	-156.00	-3,370.3	-1,500.6	3,689.6	3,688.7	0.90	4,085.710		
400.0	400.0	330.6	330.6	0.7	0.6	-155.97	-3,370.7	-1,503.2	3,691.1	3,689.9	1.24	2,985.938		
500.0	500.0	417.6	417.3	0.8	0.7	-155.88	-3,369.8	-1,508.8	3,692.9	3,691.3	1.59	2,329.379		
600.0	600.0	504.6	503.9	1.0	0.9	-162.60	-3,368.2	-1,517.1	3,695.9	3,694.0	1.96	1,887.179		
700.0	700.0	589.5	587.9	1.2	1.2	-162.41	-3,365.2	-1,528.7	3,701.0	3,698.6	2.38	1,556.428		
800.0	799.9	664.4	661.6	1.4	1.5	-162.19	-3,361.7	-1,542.1	3,708.2	3,705.4	2.81	1,319.001		
900.0	899.7	734.0	729.5	1.6	1.7	-161.95	-3,357.8	-1,556.8	3,717.9	3,714.7	3.26	1,140.955		
1,000.0	999.4	788.2	782.0	1.8	2.0	-161.73	-3,354.7	-1,569.6	3,730.3	3,726.6	3.68	1,012.721		
1,100.0	1,098.9	855.5	846.9	2.0	2.3	-161.44	-3,350.9	-1,587.4	3,745.5	3,741.4	4.18	895.750		
1,200.0	1,198.3	946.2	933.8	2.2	2.8	-161.04	-3,345.1	-1,612.7	3,762.6	3,757.8	4.81	781.474		
1,300.0	1,297.4	1,011.0	995.8	2.5	3.1	-160.73	-3,341.4	-1,631.1	3,782.3	3,777.0	5.32	711.018		
1,400.0	1,396.3	1,083.0	1,064.6	2.8	3.5	-160.39	-3,337.7	-1,651.9	3,804.4	3,798.5	5.87	648.327		
1,500.0	1,494.9	1,146.2	1,124.9	3.1	3.9	-160.08	-3,334.6	-1,670.5	3,828.7	3,822.3	6.39	599.371		
1,600.0	1,593.3	1,226.6	1,201.3	3.4	4.4	-159.69	-3,330.7	-1,695.4	3,855.4	3,848.4	7.02	549.155		
1,700.0	1,691.2	1,312.4	1,282.3	3.8	4.9	-159.26	-3,325.8	-1,723.3	3,883.9	3,876.2	7.71	503.564		
1,800.0	1,788.9	1,386.0	1,351.2	4.2	5.4	-158.84	-3,321.2	-1,748.7	3,914.5	3,906.2	8.36	468.031		
1,900.0	1,886.3	1,458.0	1,417.9	4.6	6.0	-158.53	-3,316.1	-1,775.3	3,946.5	3,937.4	9.06	435.477		
2,000.0	1,983.7	1,513.8	1,469.0	5.0	6.4	-158.27	-3,311.8	-1,797.3	3,979.3	3,969.6	9.70	410.178		
2,100.0	2,081.2	1,576.3	1,525.4	5.4	6.9	-157.95	-3,306.5	-1,823.7	4,013.0	4,002.6	10.40	386.028		
2,200.0	2,178.6	1,654.3	1,595.5	5.8	7.6	-157.55	-3,299.9	-1,857.2	4,047.4	4,036.2	11.22	360.818		
2,300.0	2,276.1	1,732.7	1,665.8	6.2	8.2	-157.14	-3,293.2	-1,891.4	4,082.2	4,070.1	12.06	338.611		
2,400.0	2,373.5	1,809.7	1,734.9	6.6	8.9	-156.75	-3,286.9	-1,924.9	4,117.5	4,104.6	12.86	320.057		
2,500.0	2,470.9	1,893.3	1,810.1	7.0	9.6	-156.35	-3,280.6	-1,960.7	4,153.2	4,139.4	13.73	302.561		
2,600.0	2,568.4	1,985.8	1,893.3	7.4	10.4	-155.91	-3,273.6	-2,000.4	4,189.1	4,174.5	14.65	285.855		
2,700.0	2,665.8	2,058.2	1,958.6	7.8	11.0	-155.57	-3,268.2	-2,031.3	4,225.3	4,209.8	15.44	273.721		
2,800.0	2,763.2	2,124.2	2,017.8	8.3	11.5	-155.26	-3,263.5	-2,060.0	4,262.2	4,246.0	16.17	263.543		
2,900.0	2,860.7	2,321.2	2,195.9	8.7	13.1	-154.38	-3,248.4	-2,142.9	4,298.2	4,280.3	17.86	240.697		
3,000.0	2,958.1	2,402.3	2,269.4	9.1	13.8	-154.03	-3,241.5	-2,176.4	4,333.5	4,314.8	18.69	231.854		
3,100.0	3,055.6	2,499.3	2,357.7	9.5	14.5	-153.63	-3,233.9	-2,215.8	4,369.0	4,349.4	19.61	222.755		
3,200.0	3,153.0	2,582.0	2,433.0	10.0	15.2	-153.29	-3,227.2	-2,249.5	4,404.6	4,384.2	20.46	215.297		
3,300.0	3,250.4	2,662.9	2,506.5	10.4	15.9	-152.96	-3,220.7	-2,282.6	4,440.5	4,419.3	21.27	208.751		
3,400.0	3,347.9	2,795.3	2,627.4	10.8	16.9	-152.45	-3,210.3	-2,335.6	4,476.2	4,453.8	22.44	199.445		
3,500.0	3,445.3	2,863.0	2,689.1	11.2	17.4	-152.19	-3,204.7	-2,362.8	4,511.9	4,488.8	23.17	194.724		
3,600.0	3,542.7	2,938.7	2,758.0	11.7	18.0	-151.89	-3,198.5	-2,393.6	4,548.1	4,524.2	23.96	189.805		
3,700.0	3,640.2	3,029.7	2,840.6	12.1	18.8	-151.54	-3,191.1	-2,431.1	4,584.7	4,559.8	24.86	184.411		
3,800.0	3,737.6	3,096.1	2,900.8	12.5	19.3	-151.29	-3,185.5	-2,458.6	4,621.5	4,595.9	25.61	180.435		
3,815.0	3,752.2	3,104.7	2,908.6	12.6	19.4	-151.25	-3,184.8	-2,462.3	4,627.1	4,601.4	25.72	179.921		
3,900.0	3,835.2	3,155.8	2,954.3	12.9	19.9	-151.20	-3,180.2	-2,484.5	4,658.6	4,632.2	26.38	176.584		
4,000.0	3,933.1	3,228.5	3,019.2	13.3	20.5	-151.08	-3,173.6	-2,516.5	4,694.8	4,667.5	27.25	172.293		
4,100.0	4,031.4	3,379.7	3,155.3	13.6	21.7	-150.64	-3,160.6	-2,581.2	4,729.3	4,700.6	28.64	165.119		
4,200.0	4,130.0	3,499.9	3,264.7	14.0	22.7	-150.36	-3,151.1	-2,629.8	4,761.7	4,732.0	29.74	160.100		
4,300.0	4,228.9	3,685.0	3,435.1	14.3	24.1	-149.85	-3,136.6	-2,700.9	4,791.6	4,760.4	31.24	153.367		
4,400.0	4,328.0	3,767.8	3,511.3	14.6	24.7	-149.69	-3,129.3	-2,732.4	4,819.4	4,787.4	32.04	150.441		
4,500.0	4,427.3	3,845.5	3,583.1	14.8	25.2	-149.56	-3,123.3	-2,761.4	4,846.2	4,813.5	32.78	147.824		
4,600.0	4,526.8	3,893.0	3,626.9	15.0	25.6	-149.52	-3,119.4	-2,779.5	4,872.1	4,838.8	33.33	146.190		
4,700.0	4,626.5	3,943.9	3,673.6	15.2	26.0	-149.45	-3,115.5	-2,799.2	4,897.5	4,863.7	33.88	144.559		
4,800.0	4,726.3	3,987.0	3,713.1	15.4	26.3	-149.42	-3,112.7	-2,816.4	4,922.8	4,888.5	34.36	143.259		
4,900.0	4,826.2	4,215.7	3,922.8	15.6	28.1	-148.63	-3,096.3	-2,906.1	4,946.4	4,910.4	36.03	137.277		
5,000.0	4,926.1	4,272.2	3,974.8	15.7	28.5	-148.52	-3,091.9	-2,927.6	4,967.4	4,930.8	36.56	135.868		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 14-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 94-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	4,361.0	4,056.2	15.8	29.2	-148.26	-3,084.3	-2,962.4	4,987.3	4,950.0	37.31	133.665		
5,115.0	5,041.1	4,383.7	4,076.8	15.8	29.4	-141.33	-3,082.2	-2,971.5	4,990.1	4,952.6	37.49	133.103		
5,200.0	5,126.1	4,435.4	4,123.8	15.9	29.8	-141.10	-3,077.3	-2,992.5	5,006.7	4,968.7	37.97	131.866		
5,300.0	5,226.1	4,512.3	4,193.5	16.0	30.4	-140.76	-3,070.0	-3,024.3	5,026.8	4,988.2	38.64	130.107		
5,400.0	5,326.1	4,617.1	4,288.7	16.1	31.3	-140.30	-3,060.6	-3,067.0	5,047.3	5,007.8	39.45	127.943		
5,500.0	5,426.1	4,711.0	4,375.2	16.2	31.9	-139.94	-3,053.9	-3,103.1	5,067.7	5,027.6	40.13	126.270		
5,600.0	5,526.1	4,830.0	4,485.5	16.3	32.8	-139.49	-3,046.7	-3,147.2	5,088.1	5,047.2	40.96	124.221		
5,700.0	5,626.1	4,892.9	4,543.6	16.4	33.3	-139.26	-3,042.5	-3,170.8	5,108.7	5,067.3	41.47	123.180		
5,800.0	5,726.1	5,025.8	4,666.3	16.5	34.2	-138.76	-3,033.9	-3,220.9	5,129.8	5,087.4	42.36	121.096		
5,900.0	5,826.1	6,203.5	5,811.4	16.6	38.5	-136.53	-2,995.2	-3,452.9	5,148.8	5,103.0	45.82	112.364		
6,000.0	5,926.1	6,301.3	5,909.3	16.7	38.6	-136.53	-2,995.2	-3,453.1	5,148.9	5,102.9	46.02	111.888		
6,100.0	6,026.1	6,403.2	6,011.2	16.8	38.6	-136.53	-2,995.5	-3,453.0	5,149.1	5,102.9	46.21	111.425		
6,200.0	6,126.1	6,512.4	6,120.4	16.9	38.7	-136.55	-2,996.3	-3,452.2	5,149.1	5,102.7	46.40	110.981		
6,224.0	6,150.1	6,533.2	6,141.1	17.0	38.7	-136.55	-2,996.5	-3,452.0	5,149.1	5,102.7	46.44	110.878		
6,300.0	6,226.1	6,594.9	6,202.9	17.0	38.7	-136.56	-2,997.2	-3,451.4	5,149.2	5,102.6	46.57	110.560		
6,400.0	6,326.1	6,679.3	6,287.3	17.2	38.7	-136.57	-2,998.3	-3,450.8	5,149.6	5,102.9	46.75	110.146		
6,500.0	6,426.1	6,771.1	6,379.0	17.3	38.8	-136.59	-2,999.6	-3,450.3	5,150.3	5,103.4	46.94	109.724		
6,604.7	6,530.8	6,878.9	6,486.8	17.4	38.8	-136.60	-3,001.0	-3,450.0	5,151.1	5,103.9	47.14	109.266		
6,650.0	6,576.1	6,922.7	6,530.6	17.4	38.8	43.45	-3,001.5	-3,449.9	5,150.3	5,103.2	47.14	109.259		
6,700.0	6,625.8	6,968.4	6,576.3	17.4	38.9	43.66	-3,002.0	-3,449.8	5,147.2	5,100.2	46.94	109.643		
6,750.0	6,675.1	7,011.2	6,619.1	17.3	38.9	44.02	-3,002.5	-3,449.9	5,141.5	5,094.9	46.56	110.426		
6,800.0	6,723.7	7,051.4	6,659.3	17.2	38.9	44.55	-3,002.8	-3,450.1	5,133.5	5,087.5	45.99	111.612		
6,850.0	6,771.3	7,083.0	6,690.9	17.1	38.9	45.23	-3,003.1	-3,450.3	5,123.1	5,077.8	45.25	113.215		
6,900.0	6,817.8	7,128.2	6,736.1	16.9	39.0	46.11	-3,003.4	-3,450.8	5,110.4	5,066.0	44.35	115.230		
6,950.0	6,862.9	7,164.6	6,772.5	16.7	39.0	47.16	-3,003.7	-3,451.3	5,095.5	5,052.2	43.30	117.682		
7,000.0	6,906.3	7,198.7	6,806.6	16.4	39.0	48.38	-3,004.0	-3,451.9	5,078.5	5,036.4	42.12	120.575		
7,050.0	6,948.0	7,230.8	6,838.7	16.1	39.1	49.79	-3,004.3	-3,452.4	5,059.5	5,018.6	40.83	123.911		
7,100.0	6,987.6	7,272.0	6,879.9	15.9	39.1	51.46	-3,004.8	-3,453.1	5,038.6	4,999.1	39.46	127.687		
7,150.0	7,024.9	7,297.3	6,905.2	15.6	39.1	53.25	-3,005.1	-3,453.6	5,015.8	4,977.8	38.04	131.848		
7,200.0	7,059.9	7,334.6	6,942.5	15.3	39.1	55.36	-3,005.6	-3,454.3	4,991.4	4,954.8	36.60	136.364		
7,250.0	7,092.3	7,366.0	6,973.9	15.0	39.2	57.67	-3,005.9	-3,455.0	4,965.4	4,930.2	35.18	141.123		
7,300.0	7,121.9	7,394.7	7,002.5	14.7	39.2	60.19	-3,006.2	-3,455.6	4,937.9	4,904.1	33.82	145.993		
7,350.0	7,148.7	7,418.4	7,026.3	14.4	39.2	62.90	-3,006.5	-3,456.0	4,909.2	4,876.7	32.56	150.779		
7,400.0	7,172.4	7,439.6	7,047.5	14.2	39.2	65.82	-3,006.8	-3,456.4	4,879.5	4,848.1	31.43	155.260		
7,450.0	7,193.1	7,460.0	7,067.8	13.9	39.3	68.94	-3,007.1	-3,456.8	4,848.8	4,818.4	30.46	159.205		
7,500.0	7,210.5	7,474.8	7,082.7	13.8	39.3	72.18	-3,007.3	-3,457.1	4,817.5	4,787.8	29.66	162.434		
7,550.0	7,224.6	7,488.5	7,096.3	13.6	39.3	75.57	-3,007.5	-3,457.4	4,785.5	4,756.5	29.04	164.813		
7,600.0	7,235.3	7,499.1	7,106.9	13.5	39.3	79.04	-3,007.7	-3,457.6	4,753.1	4,724.6	28.58	166.312		
7,650.0	7,242.6	7,506.6	7,114.4	13.5	39.3	82.55	-3,007.8	-3,457.7	4,720.6	4,692.3	28.27	166.961		
7,700.0	7,246.4	7,510.9	7,118.7	13.5	39.3	86.04	-3,007.9	-3,457.8	4,688.0	4,659.9	28.10	166.817		
7,729.7	7,247.0	7,511.9	7,119.8	13.6	39.3	88.09	-3,007.9	-3,457.8	4,668.6	4,640.6	28.06	166.372		
7,800.0	7,247.0	7,513.1	7,120.9	13.7	39.3	88.11	-3,007.9	-3,457.8	4,623.3	4,595.0	28.24	163.720		
7,900.0	7,247.0	7,514.7	7,122.5	14.2	39.3	88.14	-3,008.0	-3,457.8	4,559.8	4,531.1	28.67	159.020		
8,000.0	7,247.0	7,516.3	7,124.1	14.8	39.3	88.16	-3,008.0	-3,457.9	4,497.7	4,468.4	29.31	153.465		
8,100.0	7,247.0	7,517.9	7,125.7	15.6	39.3	88.19	-3,008.0	-3,457.9	4,437.0	4,406.9	30.11	147.337		
8,200.0	7,247.0	7,519.6	7,127.4	16.5	39.3	88.21	-3,008.0	-3,457.9	4,377.7	4,346.6	31.07	140.901		
8,300.0	7,247.0	7,521.2	7,129.0	17.6	39.3	88.24	-3,008.1	-3,458.0	4,319.9	4,287.8	32.15	134.376		
8,400.0	7,247.0	7,522.9	7,130.7	18.8	39.3	88.27	-3,008.1	-3,458.0	4,263.7	4,230.4	33.33	127.927		
8,500.0	7,247.0	7,524.5	7,132.4	20.1	39.3	88.29	-3,008.1	-3,458.0	4,209.1	4,174.5	34.59	121.669		
8,600.0	7,247.0	7,526.2	7,134.0	21.4	39.3	88.32	-3,008.2	-3,458.1	4,156.2	4,120.3	35.93	115.675		
8,700.0	7,247.0	7,527.9	7,135.7	22.8	39.3	88.35	-3,008.2	-3,458.1	4,105.0	4,067.7	37.32	109.989		
8,800.0	7,247.0	7,529.6	7,137.4	24.2	39.3	88.38	-3,008.2	-3,458.1	4,055.7	4,016.9	38.76	104.632		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 14-10 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 94-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			
8,900.0	7,247.0	7,531.3	7,139.2	25.7	39.3	88.40	-3,008.3	-3,458.2	4,008.2	3,968.0	40.24	99.607		
9,000.0	7,247.0	7,533.1	7,140.9	27.2	39.3	88.43	-3,008.3	-3,458.2	3,962.8	3,921.0	41.75	94.910		
9,100.0	7,247.0	7,534.8	7,142.6	28.7	39.3	88.46	-3,008.3	-3,458.2	3,919.3	3,876.0	43.29	90.531		
9,200.0	7,247.0	7,536.6	7,144.4	30.3	39.3	88.49	-3,008.4	-3,458.3	3,877.9	3,833.0	44.86	86.453		
9,300.0	7,247.0	7,538.3	7,146.1	31.9	39.3	88.52	-3,008.4	-3,458.3	3,838.7	3,792.2	46.44	82.661		
9,400.0	7,247.0	7,540.1	7,147.9	33.5	39.3	88.55	-3,008.4	-3,458.3	3,801.7	3,753.6	48.04	79.137		
9,500.0	7,247.0	7,541.9	7,149.7	35.1	39.3	88.57	-3,008.4	-3,458.4	3,767.0	3,717.3	49.65	75.864		
9,600.0	7,247.0	7,543.7	7,151.5	36.7	39.3	88.60	-3,008.5	-3,458.4	3,734.6	3,683.4	51.28	72.824		
9,700.0	7,247.0	7,545.5	7,153.3	38.3	39.3	88.63	-3,008.5	-3,458.4	3,704.7	3,651.8	52.92	70.002		
9,800.0	7,247.0	7,547.3	7,155.1	40.0	39.3	88.66	-3,008.5	-3,458.5	3,677.2	3,622.7	54.57	67.383		
9,900.0	7,247.0	7,549.2	7,157.0	41.6	39.3	88.69	-3,008.6	-3,458.5	3,652.3	3,596.1	56.23	64.953		
10,000.0	7,247.0	7,551.0	7,158.8	43.3	39.3	88.72	-3,008.6	-3,458.5	3,630.0	3,572.1	57.90	62.698		
10,100.0	7,247.0	7,552.9	7,160.7	45.0	39.3	88.75	-3,008.7	-3,458.6	3,610.3	3,550.7	59.57	60.606		
10,200.0	7,247.0	7,554.7	7,162.5	46.6	39.3	88.78	-3,008.7	-3,458.6	3,593.2	3,532.0	61.25	58.667		
10,300.0	7,247.0	7,559.0	7,166.8	48.3	39.3	88.85	-3,008.8	-3,458.7	3,578.9	3,516.0	62.94	56.866		
10,400.0	7,247.0	7,563.4	7,171.2	50.0	39.3	88.92	-3,008.8	-3,458.7	3,567.3	3,502.7	64.63	55.197		
10,500.0	7,247.0	7,567.4	7,175.2	51.7	39.3	88.99	-3,008.9	-3,458.8	3,558.5	3,492.2	66.33	53.653		
10,600.0	7,247.0	7,571.1	7,178.9	53.4	39.3	89.05	-3,009.0	-3,458.9	3,552.5	3,484.5	68.03	52.223		
10,700.0	7,247.0	7,574.5	7,182.3	55.1	39.3	89.10	-3,009.0	-3,458.9	3,549.3	3,479.6	69.73	50.901		
10,763.9	7,247.0	7,576.6	7,184.4	56.2	39.3	89.13	-3,009.1	-3,459.0	3,548.7	3,477.9	70.82	50.109 CC		
10,800.0	7,247.0	7,577.7	7,185.5	56.8	39.3	89.15	-3,009.1	-3,459.0	3,548.9	3,477.5	71.44	49.680 ES		
10,900.0	7,247.0	7,580.7	7,188.5	58.5	39.3	89.20	-3,009.1	-3,459.0	3,551.3	3,478.2	73.15	48.552		
11,000.0	7,247.0	7,583.5	7,191.3	60.2	39.3	89.25	-3,009.2	-3,459.1	3,556.6	3,481.7	74.86	47.511		
11,100.0	7,247.0	7,586.1	7,193.9	61.9	39.3	89.29	-3,009.2	-3,459.1	3,564.6	3,488.0	76.57	46.552		
11,200.0	7,247.0	7,588.5	7,196.3	63.6	39.3	89.33	-3,009.2	-3,459.1	3,575.4	3,497.1	78.29	45.670		
11,300.0	7,247.0	7,590.8	7,198.6	65.4	39.4	89.36	-3,009.3	-3,459.2	3,589.0	3,509.0	80.01	44.859		
11,400.0	7,247.0	7,593.0	7,200.8	67.1	39.4	89.40	-3,009.3	-3,459.2	3,605.3	3,523.5	81.73	44.114		
11,500.0	7,247.0	7,595.0	7,202.8	68.8	39.4	89.43	-3,009.3	-3,459.2	3,624.2	3,540.8	83.45	43.431		
11,600.0	7,247.0	7,597.0	7,204.7	70.5	39.4	89.46	-3,009.3	-3,459.2	3,645.9	3,560.7	85.17	42.806		
11,700.0	7,247.0	7,598.8	7,206.6	72.2	39.4	89.49	-3,009.3	-3,459.3	3,670.1	3,583.2	86.90	42.235		
11,800.0	7,247.0	7,600.5	7,208.3	74.0	39.4	89.52	-3,009.4	-3,459.3	3,696.8	3,608.2	88.62	41.714		
11,816.8	7,247.0	7,600.8	7,208.6	74.2	39.4	89.53	-3,009.4	-3,459.3	3,701.6	3,612.7	88.91	41.631 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 24-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 183-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	-159.96	-4,086.4	-1,490.9	4,349.9					
100.0	100.0	90.4	90.4	0.2	0.1	-159.96	-4,086.5	-1,490.7	4,349.9	4,349.7	0.22	N/A		
200.0	200.0	189.6	189.6	0.3	0.2	-159.97	-4,086.8	-1,490.1	4,349.9	4,349.5	0.48	9,097.754		
300.0	300.0	288.2	288.2	0.5	0.3	-159.98	-4,087.1	-1,489.3	4,350.0	4,349.2	0.83	5,270.837		
400.0	400.0	382.5	382.5	0.7	0.5	-159.99	-4,087.4	-1,488.7	4,350.0	4,348.9	1.16	3,735.987		
500.0	500.0	458.0	458.0	0.8	0.6	-159.99	-4,087.8	-1,488.9	4,350.6	4,349.1	1.47	2,959.364		
600.0	600.0	550.4	550.4	1.0	0.8	-166.83	-4,088.3	-1,489.9	4,352.4	4,350.6	1.81	2,410.980		
700.0	700.0	664.7	664.7	1.2	1.0	-166.81	-4,088.6	-1,491.7	4,355.7	4,353.5	2.18	1,998.916		
800.0	799.9	762.8	762.7	1.4	1.2	-166.79	-4,088.7	-1,493.4	4,360.6	4,358.0	2.52	1,726.995		
900.0	899.7	865.6	865.5	1.6	1.3	-166.76	-4,088.5	-1,495.4	4,367.1	4,364.2	2.88	1,516.475		
1,000.0	999.4	953.5	953.4	1.8	1.5	-166.74	-4,088.5	-1,497.3	4,375.4	4,372.2	3.21	1,363.661		
1,100.0	1,098.9	1,049.3	1,049.2	2.0	1.7	-166.72	-4,088.7	-1,499.5	4,385.7	4,382.1	3.55	1,234.643		
1,200.0	1,198.3	1,152.4	1,152.2	2.2	1.8	-166.69	-4,088.4	-1,502.6	4,397.5	4,393.6	3.91	1,124.471		
1,300.0	1,297.4	1,262.7	1,262.4	2.5	2.0	-166.65	-4,088.0	-1,506.3	4,411.0	4,406.7	4.28	1,029.816		
1,400.0	1,396.3	1,351.9	1,351.7	2.8	2.2	-166.62	-4,087.5	-1,509.2	4,426.1	4,421.4	4.62	958.252		
1,500.0	1,494.9	1,459.0	1,458.7	3.1	2.4	-166.59	-4,087.1	-1,512.8	4,442.9	4,437.9	4.99	890.851		
1,600.0	1,593.3	1,535.7	1,535.3	3.4	2.5	-166.54	-4,086.6	-1,516.1	4,461.4	4,456.1	5.31	840.473		
1,700.0	1,691.2	1,769.4	1,768.3	3.8	3.0	-166.40	-4,078.9	-1,532.6	4,479.9	4,473.9	5.96	751.821		
1,800.0	1,788.9	1,833.0	1,831.5	4.2	3.2	-166.31	-4,075.4	-1,538.5	4,499.2	4,492.9	6.28	716.607		
1,900.0	1,886.3	1,900.2	1,898.2	4.6	3.3	-166.25	-4,071.8	-1,545.9	4,519.9	4,513.3	6.63	681.800		
2,000.0	1,983.7	1,927.0	1,924.8	5.0	3.4	-166.23	-4,070.5	-1,549.1	4,542.0	4,535.1	6.89	659.591		
2,100.0	2,081.2	1,987.2	1,984.3	5.4	3.6	-166.16	-4,068.1	-1,557.4	4,565.1	4,557.9	7.24	630.539		
2,200.0	2,178.6	2,045.3	2,041.6	5.8	3.7	-166.07	-4,066.3	-1,566.8	4,589.4	4,581.8	7.59	604.485		
2,300.0	2,276.1	2,162.7	2,157.3	6.2	4.1	-165.90	-4,062.1	-1,586.4	4,613.7	4,605.6	8.12	568.056		
2,400.0	2,373.5	2,235.1	2,228.6	6.6	4.3	-165.79	-4,059.3	-1,598.8	4,638.0	4,629.5	8.53	543.498		
2,500.0	2,470.9	2,302.0	2,294.4	7.0	4.5	-165.69	-4,057.4	-1,610.8	4,663.3	4,654.4	8.93	521.968		
2,600.0	2,568.4	2,412.7	2,403.2	7.4	4.8	-165.51	-4,054.1	-1,631.0	4,688.8	4,679.3	9.48	494.391		
2,700.0	2,665.8	2,490.6	2,479.6	7.8	5.1	-165.38	-4,051.3	-1,645.8	4,714.1	4,704.1	9.94	474.160		
2,800.0	2,763.2	2,630.6	2,617.1	8.3	5.6	-165.15	-4,046.2	-1,671.6	4,739.1	4,728.5	10.60	447.233		
2,900.0	2,860.7	2,734.6	2,719.4	8.7	5.9	-165.00	-4,042.2	-1,689.7	4,763.5	4,752.4	11.14	427.688		
3,000.0	2,958.1	2,842.7	2,825.7	9.1	6.3	-164.83	-4,037.7	-1,709.1	4,787.9	4,776.2	11.71	408.961		
3,100.0	3,055.6	2,940.4	2,921.5	9.5	6.7	-164.67	-4,033.0	-1,727.5	4,812.2	4,799.9	12.26	392.546		
3,200.0	3,153.0	3,024.0	3,003.4	10.0	7.0	-164.53	-4,029.0	-1,743.6	4,836.6	4,823.8	12.76	379.054		
3,300.0	3,250.4	3,098.2	3,076.2	10.4	7.2	-164.41	-4,025.7	-1,757.8	4,861.3	4,848.1	13.23	367.453		
3,400.0	3,347.9	3,206.0	3,181.8	10.8	7.6	-164.23	-4,021.3	-1,778.6	4,886.5	4,872.7	13.82	353.496		
3,500.0	3,445.3	3,317.4	3,291.3	11.2	8.0	-164.06	-4,016.4	-1,799.4	4,911.1	4,896.6	14.42	340.514		
3,600.0	3,542.7	3,381.2	3,353.8	11.7	8.3	-163.96	-4,013.7	-1,811.3	4,935.9	4,921.0	14.86	332.056		
3,700.0	3,640.2	3,485.2	3,455.7	12.1	8.7	-163.79	-4,009.5	-1,831.8	4,961.4	4,945.9	15.45	321.092		
3,800.0	3,737.6	3,588.9	3,557.6	12.5	9.0	-163.64	-4,005.2	-1,850.8	4,986.2	4,970.2	16.02	311.197		
3,815.0	3,752.2	3,600.9	3,569.4	12.6	9.1	-163.62	-4,004.8	-1,852.9	4,990.0	4,973.9	16.10	310.021		
3,900.0	3,835.2	3,713.7	3,680.3	12.9	9.5	-163.52	-4,000.2	-1,873.2	5,010.5	4,993.8	16.70	300.090		
4,000.0	3,933.1	3,868.6	3,832.2	13.3	10.1	-163.34	-3,991.2	-1,902.1	5,031.6	5,014.1	17.52	287.261		
4,100.0	4,031.4	3,894.0	3,857.0	13.6	10.2	-163.35	-3,989.6	-1,906.9	5,051.7	5,033.8	17.83	283.249		
4,200.0	4,130.0	3,987.0	3,948.5	14.0	10.5	-163.27	-3,986.0	-1,923.2	5,071.1	5,052.7	18.35	276.321		
4,300.0	4,228.9	4,194.4	4,153.8	14.3	11.1	-163.09	-3,979.0	-1,952.3	5,088.1	5,068.9	19.18	265.266		
4,400.0	4,328.0	4,268.0	4,226.8	14.6	11.3	-163.06	-3,976.4	-1,961.0	5,102.3	5,082.7	19.58	260.565		
4,500.0	4,427.3	4,330.0	4,288.5	14.8	11.4	-163.05	-3,975.1	-1,967.0	5,115.5	5,095.6	19.90	257.005		
4,600.0	4,526.8	4,430.3	4,388.5	15.0	11.6	-163.05	-3,975.0	-1,974.2	5,127.7	5,107.4	20.28	252.798		
4,700.0	4,626.5	4,651.0	4,609.1	15.2	11.9	-163.07	-3,974.3	-1,980.2	5,135.6	5,114.8	20.77	247.246		
4,800.0	4,726.3	4,737.0	4,695.1	15.4	12.0	-163.09	-3,974.0	-1,981.5	5,141.9	5,120.9	21.06	244.104		
4,900.0	4,826.2	4,830.0	4,788.1	15.6	12.2	-163.10	-3,973.8	-1,983.1	5,146.9	5,125.5	21.36	240.950		
5,000.0	4,926.1	4,900.7	4,858.7	15.7	12.3	-163.10	-3,973.9	-1,984.4	5,150.5	5,128.9	21.62	238.254		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 24-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 183-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,026.1	4,995.2	4,953.2	15.8	12.4	-163.10	-3,974.5	-1,986.0	5,152.8	5,130.9	21.90	235.291		
5,115.0	5,041.1	5,010.7	4,968.7	15.8	12.4	-156.25	-3,974.6	-1,986.3	5,153.1	5,131.1	21.94	234.827		
5,200.0	5,126.1	5,098.3	5,056.3	15.9	12.6	-156.23	-3,975.0	-1,988.0	5,154.1	5,131.9	22.21	232.046		
5,300.0	5,226.1	5,219.1	5,177.1	16.0	12.7	-156.20	-3,975.0	-1,990.9	5,155.1	5,132.5	22.56	228.528		
5,400.0	5,326.1	5,325.5	5,283.4	16.1	12.9	-156.18	-3,974.7	-1,993.5	5,155.8	5,132.9	22.88	225.307		
5,500.0	5,426.1	5,468.6	5,426.5	16.2	13.1	-156.15	-3,974.2	-1,996.0	5,156.2	5,133.0	23.24	221.827		
5,600.0	5,526.1	5,568.1	5,526.0	16.3	13.2	-156.15	-3,973.9	-1,996.0	5,156.0	5,132.4	23.53	219.085		
5,664.9	5,591.0	5,624.1	5,582.0	16.4	13.3	-156.15	-3,973.8	-1,996.0	5,155.9	5,132.2	23.71	217.426		
5,700.0	5,626.1	5,654.1	5,612.0	16.4	13.3	-156.14	-3,973.8	-1,996.1	5,155.9	5,132.1	23.81	216.545		
5,800.0	5,726.1	5,741.9	5,699.8	16.5	13.4	-156.14	-3,973.9	-1,996.5	5,156.1	5,132.0	24.09	214.021		
5,900.0	5,826.1	5,831.6	5,789.5	16.6	13.6	-156.14	-3,974.0	-1,997.1	5,156.6	5,132.2	24.38	211.522		
6,000.0	5,926.1	5,924.3	5,882.2	16.7	13.7	-156.13	-3,974.3	-1,997.8	5,157.2	5,132.5	24.67	209.051		
6,100.0	6,026.1	6,011.4	5,969.3	16.8	13.8	-156.12	-3,974.7	-1,998.5	5,158.0	5,133.0	24.95	206.698		
6,200.0	6,126.1	6,193.7	6,151.6	16.9	14.1	-156.11	-3,974.7	-1,999.9	5,158.4	5,133.0	25.38	203.275		
6,300.0	6,226.1	6,352.6	6,310.5	17.0	14.3	-156.10	-3,972.3	-2,000.1	5,157.0	5,131.3	25.77	200.149		
6,400.0	6,326.1	6,457.3	6,415.2	17.2	14.4	-156.09	-3,970.4	-1,999.7	5,155.2	5,129.1	26.07	197.710		
6,500.0	6,426.1	6,556.3	6,514.1	17.3	14.6	-156.09	-3,968.7	-1,998.8	5,153.2	5,126.9	26.37	195.416		
6,604.7	6,530.8	6,661.3	6,619.1	17.4	14.7	-156.10	-3,967.1	-1,997.5	5,151.3	5,124.6	26.68	193.078		
6,650.0	6,576.1	6,707.0	6,664.8	17.4	14.7	23.98	-3,966.4	-1,996.9	5,149.1	5,122.4	26.74	192.570		
6,700.0	6,625.8	6,750.5	6,708.3	17.4	14.8	24.17	-3,965.8	-1,996.2	5,143.7	5,117.0	26.72	192.482		
6,750.0	6,675.1	6,791.9	6,749.7	17.3	14.8	24.48	-3,965.3	-1,995.7	5,135.2	5,108.6	26.63	192.828		
6,800.0	6,723.7	6,846.1	6,803.9	17.2	14.9	24.94	-3,964.6	-1,995.0	5,123.7	5,097.2	26.49	193.419		
6,850.0	6,771.3	6,903.3	6,861.1	17.1	15.0	25.55	-3,963.8	-1,994.4	5,109.0	5,082.7	26.29	194.318		
6,900.0	6,817.8	6,961.0	6,918.7	16.9	15.1	26.32	-3,962.7	-1,993.8	5,091.2	5,065.2	26.04	195.496		
6,950.0	6,862.9	7,019.7	6,977.5	16.7	15.1	27.29	-3,961.5	-1,993.3	5,070.5	5,044.7	25.75	196.887		
7,000.0	6,906.3	7,079.1	7,036.9	16.4	15.2	28.47	-3,960.1	-1,992.7	5,046.8	5,021.4	25.44	198.406		
7,050.0	6,948.0	7,191.0	7,148.7	16.1	15.4	30.11	-3,956.5	-1,991.2	5,020.2	4,995.0	25.20	199.178		
7,100.0	6,987.6	7,272.0	7,229.6	15.9	15.5	31.99	-3,953.0	-1,989.6	4,990.6	4,965.7	24.94	200.113		
7,150.0	7,024.9	7,302.8	7,260.4	15.6	15.5	33.97	-3,951.6	-1,989.0	4,958.6	4,934.0	24.62	201.418		
7,200.0	7,059.9	7,325.2	7,282.7	15.3	15.6	36.25	-3,950.6	-1,988.6	4,924.5	4,900.2	24.34	202.335		
7,250.0	7,092.3	7,345.9	7,303.4	15.0	15.6	38.94	-3,949.7	-1,988.3	4,888.6	4,864.5	24.14	202.504		
7,300.0	7,121.9	7,367.0	7,324.5	14.7	15.6	42.12	-3,948.8	-1,988.0	4,850.9	4,826.9	24.06	201.617		
7,350.0	7,148.7	7,367.0	7,324.5	14.4	15.6	45.62	-3,948.8	-1,988.0	4,811.8	4,787.7	24.05	200.042		
7,400.0	7,172.4	7,367.0	7,324.5	14.2	15.6	49.69	-3,948.8	-1,988.0	4,771.3	4,747.1	24.19	197.221		
7,450.0	7,193.1	7,397.8	7,355.2	13.9	15.7	54.94	-3,947.6	-1,987.7	4,729.5	4,704.9	24.59	192.298		
7,500.0	7,210.5	7,405.6	7,363.1	13.8	15.7	60.60	-3,947.3	-1,987.6	4,686.9	4,661.8	25.04	187.195		
7,550.0	7,224.6	7,411.9	7,369.3	13.6	15.7	67.00	-3,947.1	-1,987.5	4,643.5	4,618.0	25.53	181.860		
7,600.0	7,235.3	7,416.5	7,373.9	13.5	15.7	74.05	-3,947.0	-1,987.5	4,599.5	4,573.6	25.99	176.964		
7,650.0	7,242.6	7,419.4	7,376.8	13.5	15.7	81.58	-3,946.9	-1,987.5	4,555.3	4,529.0	26.31	173.108		
7,700.0	7,246.4	7,420.6	7,378.0	13.5	15.7	89.30	-3,946.9	-1,987.4	4,510.9	4,484.4	26.43	170.652		
7,729.7	7,247.0	7,420.4	7,377.8	13.6	15.7	93.85	-3,946.9	-1,987.5	4,484.5	4,458.1	26.40	169.874		
7,800.0	7,247.0	7,419.3	7,376.8	13.7	15.7	93.82	-3,946.9	-1,987.5	4,422.4	4,395.8	26.57	166.416		
7,900.0	7,247.0	7,417.7	7,375.2	14.2	15.7	93.78	-3,946.9	-1,987.5	4,334.4	4,307.4	27.01	160.498		
8,000.0	7,247.0	7,416.1	7,373.5	14.8	15.7	93.73	-3,947.0	-1,987.5	4,247.0	4,219.3	27.63	153.683		
8,100.0	7,247.0	7,414.4	7,371.9	15.6	15.7	93.69	-3,947.0	-1,987.5	4,160.1	4,131.7	28.44	146.295		
8,200.0	7,247.0	7,412.7	7,370.2	16.5	15.7	93.64	-3,947.1	-1,987.5	4,073.8	4,044.4	29.39	138.633		
8,300.0	7,247.0	7,411.0	7,368.4	17.6	15.7	93.59	-3,947.2	-1,987.5	3,988.2	3,957.7	30.46	130.937		
8,400.0	7,247.0	7,409.2	7,366.6	18.8	15.7	93.54	-3,947.2	-1,987.6	3,903.2	3,871.6	31.63	123.386		
8,500.0	7,247.0	7,407.4	7,364.8	20.1	15.7	93.49	-3,947.3	-1,987.6	3,819.0	3,786.1	32.89	116.099		
8,600.0	7,247.0	7,405.5	7,362.9	21.4	15.7	93.44	-3,947.3	-1,987.6	3,735.5	3,701.3	34.22	109.152		
8,700.0	7,247.0	7,403.6	7,361.0	22.8	15.7	93.39	-3,947.4	-1,987.6	3,652.9	3,617.3	35.61	102.581		
8,800.0	7,247.0	7,401.6	7,359.0	24.2	15.7	93.33	-3,947.5	-1,987.6	3,571.2	3,534.1	37.04	96.404		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 24-10 (Existing) - Existing - Existing													Offset Site Error: 0.0 ft	
Survey Program: 183-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	7,247.0	7,399.6	7,357.0	25.7	15.7	93.28	-3,947.5	-1,987.7	3,490.4	3,451.9	38.52	90.619		
9,000.0	7,247.0	7,397.5	7,354.9	27.2	15.7	93.22	-3,947.6	-1,987.7	3,410.6	3,370.6	40.02	85.216		
9,100.0	7,247.0	7,395.3	7,352.8	28.7	15.7	93.16	-3,947.7	-1,987.7	3,331.9	3,290.4	41.56	80.176		
9,200.0	7,247.0	7,393.1	7,350.6	30.3	15.7	93.10	-3,947.8	-1,987.7	3,254.4	3,211.3	43.12	75.482		
9,300.0	7,247.0	7,390.9	7,348.3	31.9	15.7	93.04	-3,947.9	-1,987.7	3,178.1	3,133.4	44.69	71.110		
9,400.0	7,247.0	7,388.6	7,346.0	33.5	15.6	92.98	-3,947.9	-1,987.8	3,103.2	3,056.9	46.29	67.041		
9,500.0	7,247.0	7,386.2	7,343.6	35.1	15.6	92.91	-3,948.0	-1,987.8	3,029.7	2,981.8	47.90	63.254		
9,600.0	7,247.0	7,383.7	7,341.1	36.7	15.6	92.84	-3,948.1	-1,987.8	2,957.8	2,908.3	49.52	59.728		
9,700.0	7,247.0	7,367.0	7,324.5	38.3	15.6	92.38	-3,948.8	-1,988.0	2,887.6	2,836.5	51.15	56.458		
9,800.0	7,247.0	7,367.0	7,324.5	40.0	15.6	92.38	-3,948.8	-1,988.0	2,819.2	2,766.4	52.79	53.400		
9,900.0	7,247.0	7,367.0	7,324.5	41.6	15.6	92.38	-3,948.8	-1,988.0	2,752.6	2,698.2	54.45	50.555		
10,000.0	7,247.0	7,367.0	7,324.5	43.3	15.6	92.38	-3,948.8	-1,988.0	2,688.2	2,632.0	56.11	47.908		
10,100.0	7,247.0	7,367.0	7,324.5	45.0	15.6	92.38	-3,948.8	-1,988.0	2,625.9	2,568.1	57.78	45.446		
10,200.0	7,247.0	7,367.0	7,324.5	46.6	15.6	92.38	-3,948.8	-1,988.0	2,566.1	2,506.6	59.46	43.159		
10,300.0	7,247.0	7,367.0	7,324.5	48.3	15.6	92.38	-3,948.8	-1,988.0	2,508.8	2,447.6	61.14	41.035		
10,400.0	7,247.0	7,367.0	7,324.5	50.0	15.6	92.38	-3,948.8	-1,988.0	2,454.2	2,391.4	62.82	39.065		
10,500.0	7,247.0	7,367.0	7,324.5	51.7	15.6	92.38	-3,948.8	-1,988.0	2,402.6	2,338.1	64.51	37.241		
10,600.0	7,247.0	7,354.5	7,312.0	53.4	15.6	92.04	-3,949.3	-1,988.2	2,354.0	2,287.8	66.20	35.559		
10,700.0	7,247.0	7,351.2	7,308.7	55.1	15.6	91.95	-3,949.5	-1,988.2	2,308.8	2,240.9	67.90	34.004		
10,800.0	7,247.0	7,347.9	7,305.4	56.8	15.6	91.86	-3,949.6	-1,988.2	2,267.1	2,197.5	69.60	32.574		
10,900.0	7,247.0	7,344.6	7,302.1	58.5	15.6	91.77	-3,949.8	-1,988.3	2,229.1	2,157.8	71.30	31.263		
11,000.0	7,247.0	7,341.2	7,298.7	60.2	15.6	91.67	-3,949.9	-1,988.3	2,194.9	2,121.9	73.01	30.065		
11,100.0	7,247.0	7,337.9	7,295.4	61.9	15.6	91.58	-3,950.0	-1,988.4	2,164.9	2,090.2	74.71	28.976		
11,200.0	7,247.0	7,334.5	7,292.0	63.6	15.6	91.49	-3,950.2	-1,988.4	2,139.1	2,062.7	76.42	27.990		
11,300.0	7,247.0	7,331.0	7,288.5	65.4	15.6	91.39	-3,950.3	-1,988.5	2,117.7	2,039.6	78.14	27.102		
11,400.0	7,247.0	7,327.6	7,285.1	67.1	15.6	91.30	-3,950.5	-1,988.5	2,100.9	2,021.0	79.85	26.309		
11,500.0	7,247.0	7,324.1	7,281.6	68.8	15.6	91.20	-3,950.7	-1,988.6	2,088.7	2,007.1	81.57	25.606		
11,600.0	7,247.0	7,320.6	7,278.1	70.5	15.6	91.10	-3,950.8	-1,988.7	2,081.2	1,997.9	83.29	24.989		
11,700.0	7,247.0	7,317.0	7,274.5	72.2	15.5	91.01	-3,951.0	-1,988.7	2,078.5	1,993.5	85.00	24.452		
11,706.0	7,247.0	7,316.8	7,274.3	72.3	15.5	91.00	-3,951.0	-1,988.7	2,078.5	1,993.4	85.11	24.422 CC, ES		
11,800.0	7,247.0	7,313.4	7,271.0	74.0	15.5	90.91	-3,951.1	-1,988.8	2,080.6	1,993.9	86.73	23.991		
11,816.8	7,247.0	7,312.8	7,270.3	74.2	15.5	90.89	-3,951.2	-1,988.8	2,081.4	1,994.4	87.02	23.920 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 2H-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-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	-93.64	-171.1	-2,691.7	2,697.5					
100.0	100.0	55.0	55.0	0.2	0.1	-93.64	-171.1	-2,691.7	2,697.1	2,696.9	0.24	N/A		
200.0	200.0	155.0	155.0	0.3	0.2	-93.64	-171.1	-2,691.7	2,697.1	2,696.5	0.57	4,697.014		
300.0	300.0	466.4	466.0	0.5	0.8	-93.49	-163.8	-2,681.7	2,694.9	2,693.6	1.30	2,066.759		
400.0	400.0	936.3	928.2	0.7	2.5	-92.53	-115.6	-2,615.7	2,680.2	2,677.7	2.50	1,073.204		
500.0	500.0	1,121.4	1,105.9	0.8	3.4	-91.89	-85.0	-2,573.7	2,656.1	2,652.9	3.18	834.911		
600.0	600.0	1,217.2	1,197.5	1.0	3.9	-98.65	-68.4	-2,551.1	2,631.7	2,627.9	3.84	684.564		
700.0	700.0	1,313.3	1,289.4	1.2	4.5	-98.59	-51.9	-2,528.4	2,607.7	2,603.4	4.34	600.925		
800.0	799.9	1,409.8	1,381.6	1.4	5.0	-98.56	-35.3	-2,505.6	2,584.1	2,579.2	4.84	533.521		
900.0	899.7	1,506.4	1,474.1	1.6	5.5	-98.57	-18.6	-2,482.8	2,560.7	2,555.3	5.36	477.922		
1,000.0	999.4	1,603.3	1,566.7	1.8	6.0	-98.60	-1.9	-2,459.9	2,537.6	2,531.7	5.89	431.178		
1,100.0	1,098.9	1,700.4	1,659.6	2.0	6.6	-98.66	14.8	-2,436.9	2,514.8	2,508.3	6.43	391.263		
1,200.0	1,198.3	1,797.7	1,752.6	2.2	7.1	-98.76	31.6	-2,414.0	2,492.2	2,485.2	6.99	356.747		
1,300.0	1,297.4	1,895.1	1,845.8	2.5	7.6	-98.90	48.4	-2,391.0	2,470.0	2,462.4	7.56	326.600		
1,400.0	1,396.3	1,992.6	1,939.0	2.8	8.2	-99.07	65.2	-2,367.9	2,448.0	2,439.8	8.16	300.055		
1,500.0	1,494.9	2,090.2	2,032.4	3.1	8.7	-99.28	82.0	-2,344.9	2,426.2	2,417.4	8.77	276.532		
1,600.0	1,593.3	2,187.9	2,125.8	3.4	9.2	-99.53	98.9	-2,321.8	2,404.8	2,395.3	9.41	255.577		
1,700.0	1,691.2	2,285.6	2,219.2	3.8	9.8	-99.82	115.7	-2,298.8	2,383.6	2,373.5	10.06	236.831		
1,800.0	1,788.9	2,383.3	2,312.6	4.2	10.3	-100.15	132.5	-2,275.7	2,362.7	2,352.0	10.74	220.001		
1,900.0	1,886.3	2,480.9	2,406.0	4.6	10.9	-100.29	149.4	-2,252.6	2,342.0	2,330.5	11.44	204.795		
2,000.0	1,983.7	2,578.6	2,499.4	5.0	11.4	-100.44	166.2	-2,229.6	2,321.3	2,309.1	12.14	191.279		
2,100.0	2,081.2	2,676.2	2,592.8	5.4	11.9	-100.58	183.0	-2,206.5	2,300.6	2,287.8	12.84	179.207		
2,200.0	2,178.6	2,773.9	2,686.2	5.8	12.5	-100.73	199.9	-2,183.4	2,279.9	2,266.4	13.54	168.373		
2,300.0	2,276.1	2,871.6	2,779.6	6.2	13.0	-100.89	216.7	-2,160.4	2,259.3	2,245.0	14.24	158.606		
2,400.0	2,373.5	2,969.2	2,872.9	6.6	13.5	-101.04	233.5	-2,137.3	2,238.6	2,223.7	14.95	149.763		
2,500.0	2,470.9	3,066.9	2,966.3	7.0	14.1	-101.20	250.4	-2,114.2	2,218.0	2,202.3	15.65	141.722		
2,600.0	2,568.4	3,164.6	3,059.7	7.4	14.6	-101.36	267.2	-2,091.2	2,197.4	2,181.0	16.35	134.383		
2,700.0	2,665.8	3,262.2	3,153.1	7.8	15.2	-101.53	284.0	-2,068.1	2,176.8	2,159.7	17.05	127.660		
2,800.0	2,763.2	3,359.9	3,246.5	8.3	15.7	-101.69	300.9	-2,045.0	2,156.2	2,138.5	17.75	121.482		
2,900.0	2,860.7	3,457.5	3,339.9	8.7	16.2	-101.87	317.7	-2,022.0	2,135.7	2,117.2	18.45	115.785		
3,000.0	2,958.1	3,555.2	3,433.3	9.1	16.8	-102.04	334.5	-1,998.9	2,115.1	2,096.0	19.14	110.517		
3,100.0	3,055.6	3,652.9	3,526.7	9.5	17.3	-102.22	351.4	-1,975.8	2,094.6	2,074.8	19.83	105.633		
3,200.0	3,153.0	3,750.5	3,620.1	10.0	17.9	-102.40	368.2	-1,952.8	2,074.1	2,053.6	20.52	101.092		
3,300.0	3,250.4	3,848.2	3,713.5	10.4	18.4	-102.58	385.0	-1,929.7	2,053.6	2,032.4	21.20	96.861		
3,400.0	3,347.9	3,945.9	3,806.9	10.8	18.9	-102.77	401.9	-1,906.7	2,033.2	2,011.3	21.88	92.909		
3,500.0	3,445.3	4,043.5	3,900.3	11.2	19.5	-102.96	418.7	-1,883.6	2,012.7	1,990.2	22.56	89.210		
3,600.0	3,542.7	4,141.2	3,993.7	11.7	20.0	-103.16	435.5	-1,860.5	1,992.3	1,969.1	23.24	85.741		
3,700.0	3,640.2	4,238.8	4,087.1	12.1	20.5	-103.36	452.4	-1,837.5	1,971.9	1,948.0	23.91	82.482		
3,800.0	3,737.6	4,336.5	4,180.5	12.5	21.1	-103.56	469.2	-1,814.4	1,951.6	1,927.0	24.57	79.415		
3,815.0	3,752.2	4,351.2	4,194.5	12.6	21.2	-103.60	471.7	-1,810.9	1,948.5	1,923.8	24.67	78.971		
3,900.0	3,835.2	4,434.2	4,273.9	12.9	21.6	-103.58	486.0	-1,791.3	1,931.1	1,905.8	25.26	76.443		
4,000.0	3,933.1	4,531.9	4,367.3	13.3	22.2	-103.52	502.9	-1,768.3	1,910.2	1,884.3	25.94	73.633		
4,100.0	4,031.4	4,629.5	4,460.7	13.6	22.7	-103.40	519.7	-1,745.2	1,888.9	1,862.3	26.62	70.972		
4,200.0	4,130.0	4,727.1	4,554.1	14.0	23.2	-103.23	536.5	-1,722.1	1,867.3	1,840.0	27.28	68.444		
4,300.0	4,228.9	4,824.7	4,647.3	14.3	23.8	-103.00	553.3	-1,699.1	1,845.3	1,817.3	27.94	66.033		
4,400.0	4,328.0	4,922.1	4,740.5	14.6	24.3	-102.71	570.1	-1,676.1	1,822.8	1,794.2	28.60	63.726		
4,500.0	4,427.3	5,019.4	4,833.5	14.8	24.9	-102.36	586.9	-1,653.1	1,800.0	1,770.8	29.26	61.513		
4,600.0	4,526.8	5,116.5	4,926.4	15.0	25.4	-101.94	603.6	-1,630.2	1,776.9	1,747.0	29.92	59.384		
4,700.0	4,626.5	5,213.5	5,019.1	15.2	25.9	-101.46	620.4	-1,607.3	1,753.4	1,722.8	30.58	57.332		
4,800.0	4,726.3	5,310.2	5,111.6	15.4	26.5	-100.92	637.0	-1,584.5	1,729.7	1,698.4	31.25	55.349		
4,900.0	4,826.2	5,406.6	5,203.8	15.6	27.0	-100.30	653.6	-1,561.7	1,705.6	1,673.7	31.92	53.432		
5,000.0	4,926.1	5,473.7	5,268.2	15.7	27.3	-99.76	664.9	-1,546.3	1,682.1	1,649.7	32.44	51.861		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 2H-10H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-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)				
5,100.0	5,026.1	5,538.6	5,330.8	15.8	27.6	-99.24	674.9	-1,532.6	1,660.3	1,627.4	32.91	50.454		
5,115.0	5,041.1	5,548.3	5,340.2	15.8	27.7	-92.31	676.3	-1,530.6	1,657.2	1,624.2	32.98	50.250		
5,200.0	5,126.1	5,600.0	5,390.4	15.9	27.9	-92.07	683.6	-1,520.7	1,640.2	1,606.9	33.29	49.264		
5,300.0	5,226.1	5,670.3	5,459.0	16.0	28.2	-91.76	692.6	-1,508.3	1,622.1	1,588.4	33.68	48.158		
5,400.0	5,326.1	5,737.1	5,524.5	16.1	28.4	-91.49	700.3	-1,497.8	1,606.0	1,571.9	34.04	47.179		
5,500.0	5,426.1	5,800.0	5,586.5	16.2	28.6	-91.27	706.7	-1,489.0	1,591.8	1,557.4	34.37	46.320		
5,600.0	5,526.1	5,872.5	5,658.2	16.3	28.8	-91.04	713.1	-1,480.3	1,579.6	1,544.9	34.69	45.528		
5,700.0	5,626.1	5,940.9	5,726.1	16.4	29.0	-90.86	718.1	-1,473.4	1,569.4	1,534.4	34.99	44.853		
5,800.0	5,726.1	6,000.0	5,784.8	16.5	29.1	-90.73	721.7	-1,468.5	1,561.2	1,525.9	35.24	44.297		
5,900.0	5,826.1	6,078.8	5,863.4	16.6	29.2	-90.60	725.3	-1,463.5	1,554.8	1,519.3	35.51	43.785		
6,000.0	5,926.1	6,148.1	5,932.6	16.7	29.3	-90.52	727.5	-1,460.5	1,550.5	1,514.8	35.73	43.391		
6,100.0	6,026.1	6,217.5	6,002.0	16.8	29.4	-90.48	728.7	-1,458.9	1,548.2	1,512.3	35.94	43.082		
6,200.0	6,126.1	6,296.7	6,081.1	16.9	29.4	-90.47	728.9	-1,458.6	1,547.7	1,511.6	36.13	42.839		
6,300.0	6,226.1	6,396.7	6,181.1	17.0	29.5	-90.47	728.9	-1,458.6	1,547.7	1,511.4	36.34	42.589		
6,400.0	6,326.1	6,496.7	6,281.1	17.2	29.6	-90.47	728.9	-1,458.6	1,547.7	1,511.2	36.56	42.340		
6,500.0	6,426.1	6,596.7	6,381.1	17.3	29.6	-90.47	728.9	-1,458.6	1,547.7	1,511.0	36.77	42.091		
6,604.7	6,530.8	6,701.4	6,485.8	17.4	29.7	-90.47	728.9	-1,458.6	1,547.7	1,510.7	37.00	41.830		
6,650.0	6,576.1	6,746.0	6,530.4	17.4	29.7	89.55	727.9	-1,458.6	1,547.7	1,510.7	37.04	41.790		
6,700.0	6,625.8	6,795.2	6,579.4	17.4	29.7	89.57	723.6	-1,458.6	1,547.7	1,510.7	36.99	41.847		
6,750.0	6,675.1	6,844.3	6,628.0	17.3	29.6	89.59	716.0	-1,458.6	1,547.7	1,510.9	36.85	42.002		
6,800.0	6,723.7	6,893.6	6,676.0	17.2	29.6	89.62	705.1	-1,458.6	1,547.7	1,511.1	36.63	42.253		
6,850.0	6,771.3	6,942.9	6,723.1	17.1	29.4	89.64	690.8	-1,458.6	1,547.7	1,511.4	36.33	42.600		
6,900.0	6,817.8	6,992.2	6,769.3	16.9	29.3	89.67	673.4	-1,458.6	1,547.7	1,511.8	35.96	43.040		
6,924.6	6,840.1	7,016.5	6,791.5	16.8	29.2	89.69	663.6	-1,458.6	1,547.7	1,512.0	35.75	43.296 CC		
6,950.0	6,862.9	7,041.6	6,814.1	16.7	29.2	89.70	652.8	-1,458.6	1,547.7	1,512.2	35.52	43.572		
7,000.0	6,906.3	7,091.0	6,857.5	16.4	29.0	89.73	629.1	-1,458.6	1,547.7	1,512.7	35.02	44.194		
7,050.0	6,948.0	7,140.5	6,899.2	16.1	28.8	89.77	602.4	-1,458.6	1,547.7	1,513.3	34.47	44.903		
7,100.0	6,987.6	7,190.1	6,939.0	15.9	28.6	89.80	572.9	-1,458.6	1,547.7	1,513.9	33.87	45.693		
7,150.0	7,024.9	7,239.7	6,976.8	15.6	28.4	89.84	540.6	-1,458.6	1,547.7	1,514.5	33.24	46.558		
7,200.0	7,059.9	7,289.4	7,012.2	15.3	28.1	89.87	505.8	-1,458.6	1,547.7	1,515.1	32.59	47.488		
7,250.0	7,092.3	7,339.2	7,045.2	15.0	27.9	89.91	468.6	-1,458.6	1,547.7	1,515.8	31.93	48.470		
7,300.0	7,121.9	7,389.0	7,075.5	14.7	27.7	89.94	429.1	-1,458.6	1,547.7	1,516.5	31.27	49.489		
7,350.0	7,148.7	7,439.0	7,103.1	14.4	27.4	89.98	387.5	-1,458.6	1,547.8	1,517.1	30.64	50.522		
7,400.0	7,172.4	7,488.9	7,127.8	14.2	27.2	90.02	344.0	-1,458.6	1,547.8	1,517.7	30.03	51.544		
7,450.0	7,193.1	7,539.0	7,149.3	13.9	27.0	90.06	298.9	-1,458.6	1,547.8	1,518.3	29.47	52.524		
7,500.0	7,210.5	7,589.1	7,167.7	13.8	26.8	90.09	252.2	-1,458.7	1,547.8	1,518.8	28.97	53.430		
7,550.0	7,224.6	7,639.3	7,182.9	13.6	26.6	90.13	204.4	-1,458.7	1,547.8	1,519.3	28.54	54.226		
7,600.0	7,235.3	7,689.6	7,194.6	13.5	26.5	90.17	155.5	-1,458.7	1,547.8	1,519.6	28.21	54.876		
7,650.0	7,242.6	7,739.9	7,202.9	13.5	26.3	90.20	105.9	-1,458.7	1,547.8	1,519.9	27.97	55.349		
7,700.0	7,246.4	7,790.3	7,207.7	13.5	26.2	90.23	55.7	-1,458.7	1,547.8	1,520.0	27.83	55.620		
7,729.7	7,247.0	7,820.3	7,208.9	13.6	26.2	90.25	25.8	-1,458.7	1,547.8	1,520.1	27.80	55.681		
7,800.0	7,247.0	7,890.7	7,209.0	13.7	26.1	90.26	-44.6	-1,458.7	1,547.9	1,520.0	27.89	55.500		
7,900.0	7,247.0	7,990.7	7,209.0	14.2	26.1	90.26	-144.6	-1,458.7	1,547.9	1,519.5	28.38	54.532		
8,000.0	7,247.0	8,090.7	7,209.0	14.8	26.2	90.26	-244.6	-1,458.7	1,547.9	1,518.6	29.29	52.853		
8,100.0	7,247.0	8,190.7	7,209.0	15.6	26.4	90.26	-344.6	-1,458.7	1,547.9	1,517.4	30.56	50.647		
8,200.0	7,247.0	8,290.7	7,209.0	16.5	26.7	90.26	-444.6	-1,458.8	1,548.0	1,515.8	32.17	48.118		
8,300.0	7,247.0	8,390.7	7,209.0	17.6	27.2	90.26	-544.6	-1,458.8	1,548.0	1,513.9	34.06	45.445		
8,400.0	7,247.0	8,490.7	7,209.0	18.8	27.7	90.26	-644.6	-1,458.8	1,548.0	1,511.8	36.20	42.767		
8,500.0	7,247.0	8,590.7	7,209.0	20.1	28.4	90.26	-744.6	-1,458.8	1,548.0	1,509.5	38.53	40.176		
8,600.0	7,247.0	8,690.7	7,209.0	21.4	29.1	90.26	-844.6	-1,458.8	1,548.0	1,507.0	41.03	37.726		
8,700.0	7,247.0	8,790.7	7,209.0	22.8	30.0	90.26	-944.6	-1,458.8	1,548.1	1,504.4	43.68	35.445		
8,800.0	7,247.0	8,890.7	7,209.0	24.2	30.9	90.26	-1,044.6	-1,458.8	1,548.1	1,501.6	46.43	33.341		

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 lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S10-T2N-R66W (McPeck) - McPeck 2H-10H - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
8,900.0	7,247.0	8,990.7	7,209.0	25.7	31.9	90.26	-1,144.6	-1,458.9	1,548.1	1,498.8	49.29	31.411	
9,000.0	7,247.0	9,090.7	7,209.0	27.2	32.9	90.26	-1,244.6	-1,458.9	1,548.1	1,495.9	52.22	29.647	
9,100.0	7,247.0	9,190.7	7,209.0	28.7	34.0	90.26	-1,344.6	-1,458.9	1,548.1	1,492.9	55.22	28.036	
9,200.0	7,247.0	9,290.7	7,209.0	30.3	35.2	90.26	-1,444.6	-1,458.9	1,548.2	1,489.9	58.28	26.565	
9,300.0	7,247.0	9,390.7	7,209.0	31.9	36.4	90.26	-1,544.6	-1,458.9	1,548.2	1,486.8	61.38	25.222	
9,400.0	7,247.0	9,490.7	7,209.0	33.5	37.7	90.26	-1,644.6	-1,458.9	1,548.2	1,483.7	64.53	23.992	
9,500.0	7,247.0	9,590.7	7,209.0	35.1	39.0	90.26	-1,744.6	-1,458.9	1,548.2	1,480.5	67.71	22.864	
9,600.0	7,247.0	9,690.7	7,209.0	36.7	40.3	90.26	-1,844.6	-1,458.9	1,548.3	1,477.3	70.93	21.828	
9,700.0	7,247.0	9,790.7	7,209.0	38.3	41.7	90.26	-1,944.6	-1,459.0	1,548.3	1,474.1	74.17	20.875	
9,800.0	7,247.0	9,890.7	7,209.0	40.0	43.1	90.26	-2,044.6	-1,459.0	1,548.3	1,470.9	77.43	19.995	
9,900.0	7,247.0	9,990.7	7,209.0	41.6	44.5	90.26	-2,144.6	-1,459.0	1,548.3	1,467.6	80.72	19.182	
10,000.0	7,247.0	10,090.7	7,209.0	43.3	46.0	90.26	-2,244.6	-1,459.0	1,548.3	1,464.3	84.02	18.428	
10,100.0	7,247.0	10,190.7	7,209.0	45.0	47.5	90.26	-2,344.6	-1,459.0	1,548.4	1,461.0	87.34	17.728	
10,200.0	7,247.0	10,290.7	7,209.0	46.6	48.9	90.26	-2,444.6	-1,459.0	1,548.4	1,457.7	90.67	17.076	
10,300.0	7,247.0	10,390.7	7,209.0	48.3	50.4	90.26	-2,544.6	-1,459.0	1,548.4	1,454.4	94.02	16.469	
10,400.0	7,247.0	10,490.7	7,209.0	50.0	52.0	90.26	-2,644.6	-1,459.1	1,548.4	1,451.0	97.38	15.901	
10,500.0	7,247.0	10,590.7	7,209.0	51.7	53.5	90.26	-2,744.6	-1,459.1	1,548.4	1,447.7	100.74	15.370	
10,600.0	7,247.0	10,690.7	7,209.0	53.4	55.0	90.26	-2,844.6	-1,459.1	1,548.5	1,444.3	104.12	14.872	
10,700.0	7,247.0	10,790.7	7,209.0	55.1	56.6	90.26	-2,944.6	-1,459.1	1,548.5	1,441.0	107.51	14.404	
10,800.0	7,247.0	10,890.7	7,209.0	56.8	58.2	90.26	-3,044.6	-1,459.1	1,548.5	1,437.6	110.90	13.963	
10,900.0	7,247.0	10,990.7	7,209.0	58.5	59.8	90.26	-3,144.6	-1,459.1	1,548.5	1,434.2	114.30	13.548	
11,000.0	7,247.0	11,090.7	7,209.0	60.2	61.3	90.26	-3,244.6	-1,459.1	1,548.6	1,430.8	117.71	13.156	
11,100.0	7,247.0	11,190.7	7,209.0	61.9	62.9	90.26	-3,344.6	-1,459.2	1,548.6	1,427.5	121.12	12.786	
11,200.0	7,247.0	11,290.7	7,209.0	63.6	64.6	90.26	-3,444.6	-1,459.2	1,548.6	1,424.1	124.54	12.435	
11,300.0	7,247.0	11,390.7	7,209.0	65.4	66.2	90.26	-3,544.6	-1,459.2	1,548.6	1,420.7	127.96	12.102	
11,400.0	7,247.0	11,490.7	7,209.0	67.1	67.8	90.26	-3,644.6	-1,459.2	1,548.6	1,417.3	131.39	11.787	
11,500.0	7,247.0	11,590.7	7,209.0	68.8	69.4	90.26	-3,744.6	-1,459.2	1,548.7	1,413.8	134.82	11.487	
11,600.0	7,247.0	11,690.7	7,209.0	70.5	71.1	90.26	-3,844.6	-1,459.2	1,548.7	1,410.4	138.25	11.202	
11,700.0	7,247.0	11,790.7	7,209.0	72.2	72.7	90.26	-3,944.6	-1,459.2	1,548.7	1,407.0	141.69	10.930	
11,800.0	7,247.0	11,890.7	7,209.0	74.0	74.3	90.26	-4,044.6	-1,459.3	1,548.7	1,403.6	145.13	10.671	
11,816.8	7,247.0	11,907.5	7,209.0	74.2	74.6	90.26	-4,061.5	-1,459.3	1,548.7	1,403.0	145.71	10.629 ES, SF	

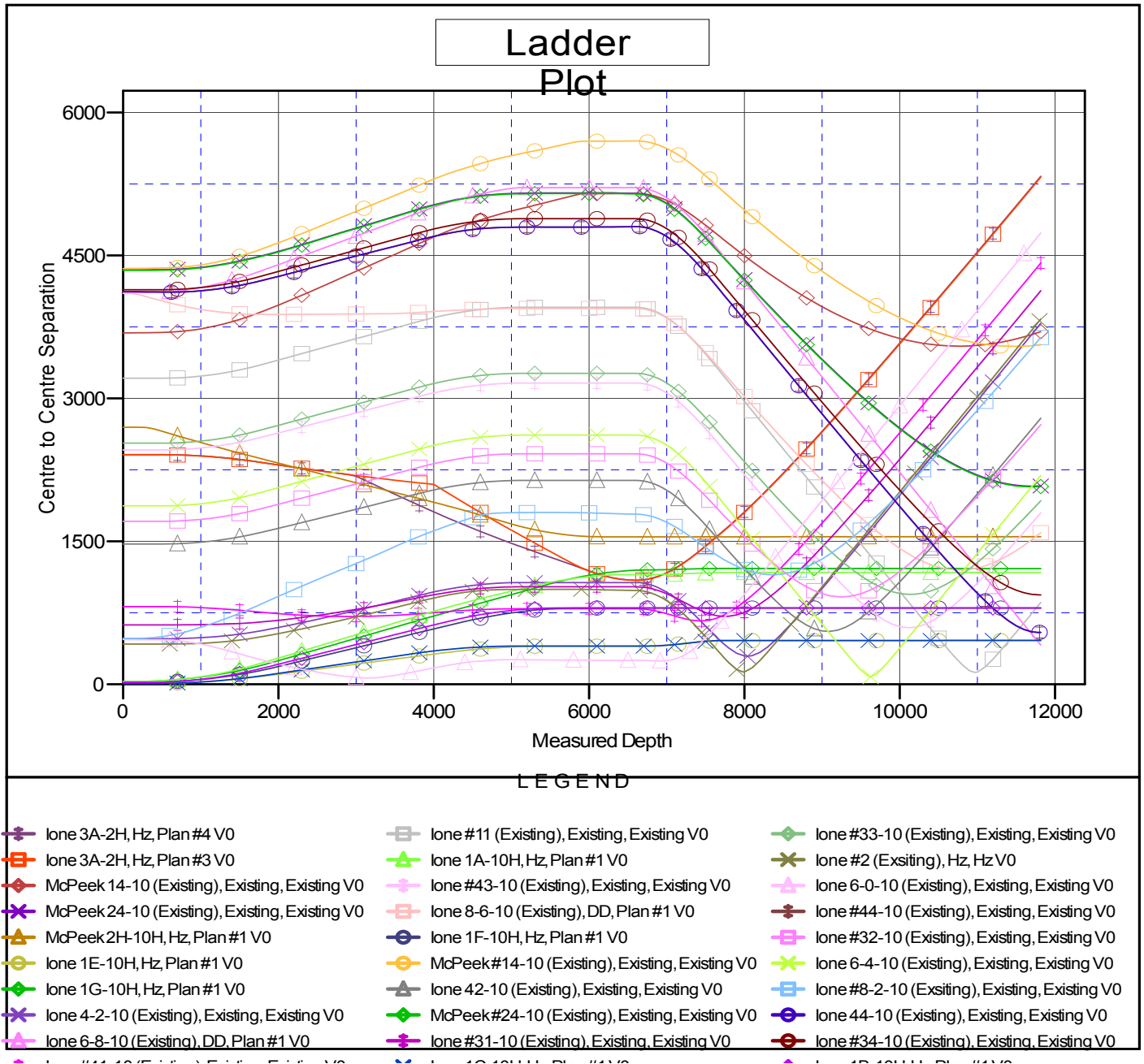
Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1D-10H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5012.0ft (Original Well Elev)
Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1D-10H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5012.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: lone 1D-10H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.48°



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