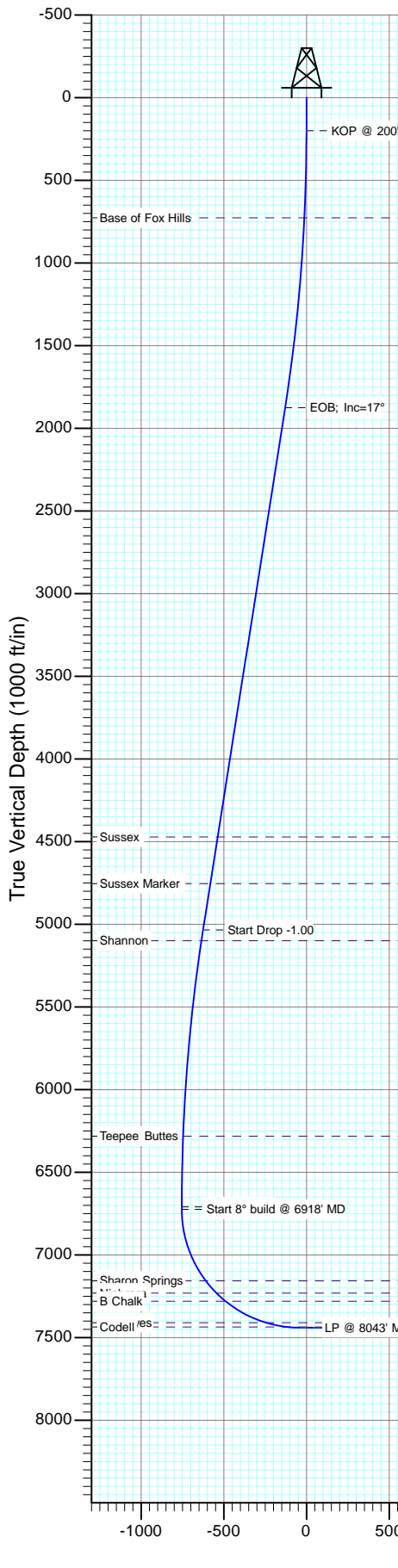
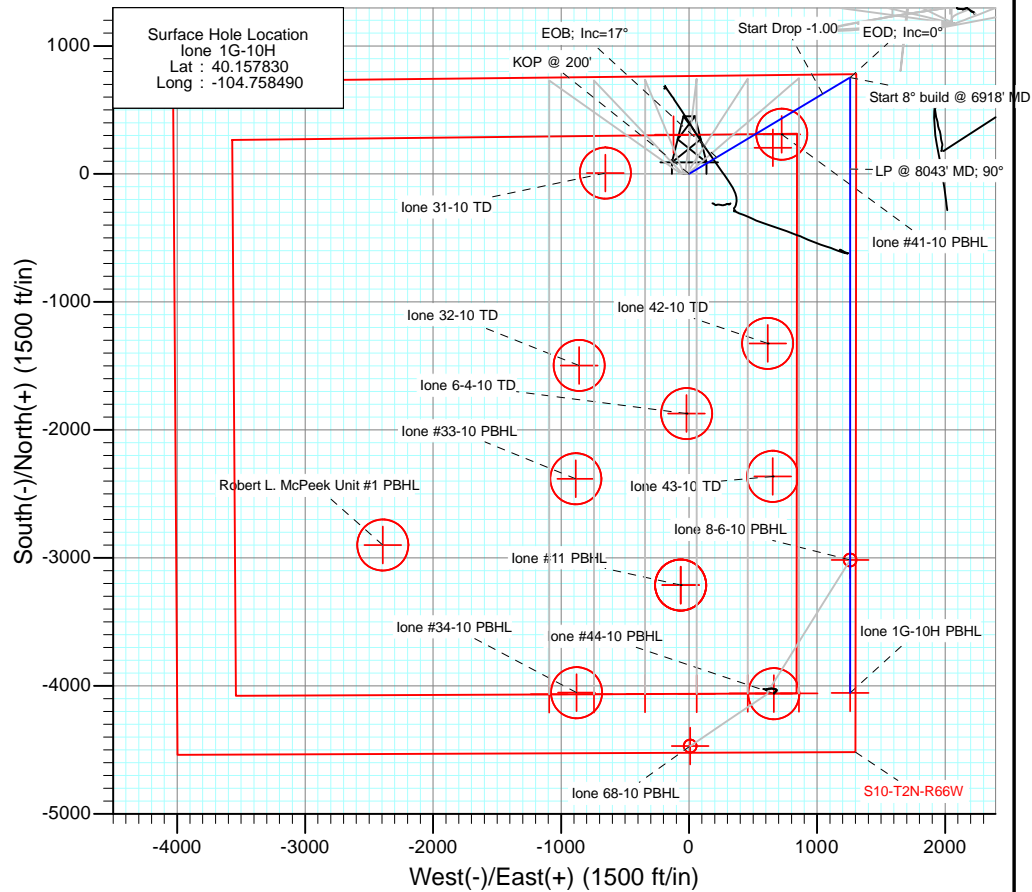




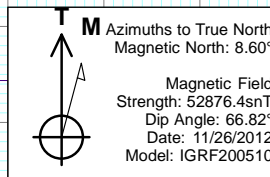
Project: DJ Wattenberg
Site: S10-T2N-R66W (lone)
Well: lone 1G-10H
Wellbore: Hz
Design: Plan #1



SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0
3	1900.0	17.00	59.08	1875.2	128.6	214.8	1.00	59.08	-128.6
4	5204.0	17.00	59.08	5034.8	625.0	1043.5	0.00	0.00	-625.0
5	6904.0	0.00	0.00	6710.0	753.7	1258.3	1.00	180.00	-753.7
6	6918.8	0.00	0.00	6724.8	753.7	1258.3	0.00	0.00	-753.7
7	8043.8	90.00	180.00	7441.0	37.5	1258.2	8.00	180.00	-37.5
8	12135.7	90.00	180.00	7441.0	-4054.4	1258.0	0.00	0.00	4054.4



DESIGN TARGET DETAILS					
Name	+N/-S	+E/-W	Northing	Easting	Latitude
lone 1G-10H PBHL	-4054.4	1258.0	1297166.08	3208551.76	40.146700



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
727.0	727.7	Base of Fox Hills
4472.0	4615.5	Sussex
4754.0	4910.4	Sussex Marker
5099.0	5271.0	Shannon
6282.0	6475.6	Teepee Buttes
7157.0	7382.8	Sharon Springs
7231.0	7481.0	Niobrara
7280.0	7554.1	B Chalk
7410.0	7832.3	Ft. Hayes
7436.0	7959.2	Codell

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

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 1G-10H					
Well Position	+N/-S	0.0 ft	Northing:	1,301,209.78 ft	Latitude:	40.157830
	+E/-W	0.0 ft	Easting:	3,207,259.92 ft	Longitude:	-104.758490
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)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	17.00	59.08	1,875.2	128.6	214.8	1.00	1.00	0.00	59.08	
5,204.0	17.00	59.08	5,034.8	625.0	1,043.5	0.00	0.00	0.00	0.00	
6,904.0	0.00	0.00	6,710.0	753.7	1,258.3	1.00	-1.00	0.00	180.00	
6,918.8	0.00	0.00	6,724.8	753.7	1,258.3	0.00	0.00	0.00	0.00	
8,043.8	90.00	180.00	7,441.0	37.5	1,258.2	8.00	8.00	0.00	180.00	
12,135.7	90.00	180.00	7,441.0	-4,054.4	1,258.0	0.00	0.00	0.00	0.00	lone 1G-10H PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1G-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 1G-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	KOP @ 200'
300.0	1.00	59.08	300.0	0.4	0.7	-0.4	1.00	1.00	
400.0	2.00	59.08	400.0	1.8	3.0	-1.8	1.00	1.00	
500.0	3.00	59.08	499.9	4.0	6.7	-4.0	1.00	1.00	
600.0	4.00	59.08	599.7	7.2	12.0	-7.2	1.00	1.00	
700.0	5.00	59.08	699.4	11.2	18.7	-11.2	1.00	1.00	
727.7	5.28	59.08	727.0	12.5	20.8	-12.5	1.00	1.00	Base of Fox Hills
800.0	6.00	59.08	798.9	16.1	26.9	-16.1	1.00	1.00	
900.0	7.00	59.08	898.3	21.9	36.6	-21.9	1.00	1.00	
1,000.0	8.00	59.08	997.4	28.7	47.8	-28.7	1.00	1.00	
1,100.0	9.00	59.08	1,096.3	36.2	60.5	-36.2	1.00	1.00	
1,200.0	10.00	59.08	1,194.9	44.7	74.7	-44.7	1.00	1.00	
1,300.0	11.00	59.08	1,293.3	54.1	90.3	-54.1	1.00	1.00	
1,400.0	12.00	59.08	1,391.2	64.3	107.4	-64.3	1.00	1.00	
1,500.0	13.00	59.08	1,488.9	75.5	126.0	-75.5	1.00	1.00	
1,600.0	14.00	59.08	1,586.1	87.5	146.0	-87.5	1.00	1.00	
1,700.0	15.00	59.08	1,682.9	100.3	167.5	-100.3	1.00	1.00	
1,800.0	16.00	59.08	1,779.3	114.0	190.4	-114.0	1.00	1.00	
1,900.0	17.00	59.08	1,875.2	128.6	214.8	-128.6	1.00	1.00	EOB; Inc=17°
2,000.0	17.00	59.08	1,970.8	143.7	239.9	-143.7	0.00	0.00	
2,100.0	17.00	59.08	2,066.4	158.7	264.9	-158.7	0.00	0.00	
2,200.0	17.00	59.08	2,162.1	173.7	290.0	-173.7	0.00	0.00	
2,300.0	17.00	59.08	2,257.7	188.7	315.1	-188.7	0.00	0.00	
2,400.0	17.00	59.08	2,353.3	203.8	340.2	-203.8	0.00	0.00	
2,500.0	17.00	59.08	2,448.9	218.8	365.3	-218.8	0.00	0.00	
2,600.0	17.00	59.08	2,544.6	233.8	390.4	-233.8	0.00	0.00	
2,700.0	17.00	59.08	2,640.2	248.8	415.4	-248.8	0.00	0.00	
2,800.0	17.00	59.08	2,735.8	263.9	440.5	-263.9	0.00	0.00	
2,900.0	17.00	59.08	2,831.5	278.9	465.6	-278.9	0.00	0.00	
3,000.0	17.00	59.08	2,927.1	293.9	490.7	-293.9	0.00	0.00	
3,100.0	17.00	59.08	3,022.7	308.9	515.8	-308.9	0.00	0.00	
3,200.0	17.00	59.08	3,118.4	323.9	540.8	-323.9	0.00	0.00	
3,300.0	17.00	59.08	3,214.0	339.0	565.9	-339.0	0.00	0.00	
3,400.0	17.00	59.08	3,309.6	354.0	591.0	-354.0	0.00	0.00	
3,500.0	17.00	59.08	3,405.3	369.0	616.1	-369.0	0.00	0.00	
3,600.0	17.00	59.08	3,500.9	384.0	641.2	-384.0	0.00	0.00	
3,700.0	17.00	59.08	3,596.5	399.1	666.3	-399.1	0.00	0.00	
3,800.0	17.00	59.08	3,692.1	414.1	691.3	-414.1	0.00	0.00	
3,900.0	17.00	59.08	3,787.8	429.1	716.4	-429.1	0.00	0.00	
4,000.0	17.00	59.08	3,883.4	444.1	741.5	-444.1	0.00	0.00	
4,100.0	17.00	59.08	3,979.0	459.2	766.6	-459.2	0.00	0.00	
4,200.0	17.00	59.08	4,074.7	474.2	791.7	-474.2	0.00	0.00	
4,300.0	17.00	59.08	4,170.3	489.2	816.7	-489.2	0.00	0.00	
4,400.0	17.00	59.08	4,265.9	504.2	841.8	-504.2	0.00	0.00	
4,500.0	17.00	59.08	4,361.6	519.2	866.9	-519.2	0.00	0.00	
4,600.0	17.00	59.08	4,457.2	534.3	892.0	-534.3	0.00	0.00	
4,615.5	17.00	59.08	4,472.0	536.6	895.9	-536.6	0.00	0.00	Sussex
4,700.0	17.00	59.08	4,552.8	549.3	917.1	-549.3	0.00	0.00	
4,800.0	17.00	59.08	4,648.5	564.3	942.2	-564.3	0.00	0.00	
4,900.0	17.00	59.08	4,744.1	579.3	967.2	-579.3	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1G-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 1G-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
4,910.4	17.00	59.08	4,754.0	580.9	969.8	-580.9	0.00	0.00	Sussex Marker
5,000.0	17.00	59.08	4,839.7	594.4	992.3	-594.4	0.00	0.00	
5,100.0	17.00	59.08	4,935.3	609.4	1,017.4	-609.4	0.00	0.00	
5,200.0	17.00	59.08	5,031.0	624.4	1,042.5	-624.4	0.00	0.00	
5,204.0	17.00	59.08	5,034.8	625.0	1,043.5	-625.0	0.00	0.00	Start Drop -1.00
5,271.0	16.33	59.08	5,099.0	634.9	1,060.0	-634.9	1.00	-1.00	Shannon
5,300.0	16.04	59.08	5,126.8	639.0	1,066.9	-639.0	1.00	-1.00	
5,400.0	15.04	59.08	5,223.2	652.8	1,089.9	-652.8	1.00	-1.00	
5,500.0	14.04	59.08	5,320.0	665.7	1,111.4	-665.7	1.00	-1.00	
5,600.0	13.04	59.08	5,417.2	677.7	1,131.5	-677.7	1.00	-1.00	
5,700.0	12.04	59.08	5,514.8	688.9	1,150.1	-688.9	1.00	-1.00	
5,800.0	11.04	59.08	5,612.8	699.2	1,167.3	-699.2	1.00	-1.00	
5,900.0	10.04	59.08	5,711.1	708.6	1,183.0	-708.6	1.00	-1.00	
6,000.0	9.04	59.08	5,809.7	717.1	1,197.2	-717.1	1.00	-1.00	
6,100.0	8.04	59.08	5,908.6	724.7	1,210.0	-724.7	1.00	-1.00	
6,200.0	7.04	59.08	6,007.7	731.5	1,221.2	-731.5	1.00	-1.00	
6,300.0	6.04	59.08	6,107.1	737.3	1,231.0	-737.3	1.00	-1.00	
6,400.0	5.04	59.08	6,206.6	742.3	1,239.3	-742.3	1.00	-1.00	
6,475.6	4.28	59.08	6,282.0	745.4	1,244.5	-745.4	1.00	-1.00	Teepee Buttes
6,500.0	4.04	59.08	6,306.3	746.3	1,246.1	-746.3	1.00	-1.00	
6,600.0	3.04	59.08	6,406.1	749.5	1,251.3	-749.5	1.00	-1.00	
6,700.0	2.04	59.08	6,506.0	751.8	1,255.2	-751.8	1.00	-1.00	
6,800.0	1.04	59.08	6,606.0	753.2	1,257.5	-753.2	1.00	-1.00	
6,900.0	0.04	59.08	6,706.0	753.7	1,258.3	-753.7	1.00	-1.00	
6,904.0	0.00	0.00	6,710.0	753.7	1,258.3	-753.7	1.00	-1.00	EOD; Inc=0°
6,918.8	0.00	0.00	6,724.8	753.7	1,258.3	-753.7	0.00	0.00	Start 8° build @ 6918' MD
7,000.0	6.49	180.00	6,805.8	749.1	1,258.3	-749.1	8.00	8.00	
7,100.0	14.49	180.00	6,904.0	730.9	1,258.3	-730.9	8.00	8.00	
7,200.0	22.49	180.00	6,998.8	699.2	1,258.3	-699.2	8.00	8.00	
7,300.0	30.49	180.00	7,088.2	654.6	1,258.3	-654.6	8.00	8.00	
7,382.8	37.12	180.00	7,157.0	608.5	1,258.3	-608.5	8.00	8.00	Sharon Springs
7,400.0	38.49	180.00	7,170.6	598.0	1,258.3	-598.0	8.00	8.00	
7,481.0	44.97	180.00	7,231.0	544.1	1,258.3	-544.1	8.00	8.00	Niobrara
7,500.0	46.49	180.00	7,244.3	530.5	1,258.3	-530.5	8.00	8.00	
7,554.1	50.82	180.00	7,280.0	489.9	1,258.3	-489.9	8.00	8.00	B Chalk
7,600.0	54.49	180.00	7,307.8	453.4	1,258.2	-453.4	8.00	8.00	
7,700.0	62.49	180.00	7,360.0	368.2	1,258.2	-368.2	8.00	8.00	
7,800.0	70.49	180.00	7,399.9	276.6	1,258.2	-276.6	8.00	8.00	
7,832.3	73.08	180.00	7,410.0	245.9	1,258.2	-245.9	8.00	8.00	Ft. Hayes
7,900.0	78.49	180.00	7,426.6	180.3	1,258.2	-180.3	8.00	8.00	
7,959.2	83.23	180.00	7,436.0	121.9	1,258.2	-121.9	8.00	8.00	Codell
8,000.0	86.49	180.00	7,439.7	81.3	1,258.2	-81.3	8.00	8.00	
8,043.8	90.00	180.00	7,441.0	37.5	1,258.2	-37.5	8.00	8.00	LP @ 8043' MD; 90°
8,100.0	90.00	180.00	7,441.0	-18.7	1,258.2	18.7	0.00	0.00	
8,200.0	90.00	180.00	7,441.0	-118.7	1,258.2	118.7	0.00	0.00	
8,300.0	90.00	180.00	7,441.0	-218.7	1,258.2	218.7	0.00	0.00	
8,400.0	90.00	180.00	7,441.0	-318.7	1,258.2	318.7	0.00	0.00	
8,500.0	90.00	180.00	7,441.0	-418.7	1,258.2	418.7	0.00	0.00	
8,600.0	90.00	180.00	7,441.0	-518.7	1,258.2	518.7	0.00	0.00	
8,700.0	90.00	180.00	7,441.0	-618.7	1,258.2	618.7	0.00	0.00	
8,800.0	90.00	180.00	7,441.0	-718.7	1,258.2	718.7	0.00	0.00	
8,900.0	90.00	180.00	7,441.0	-818.7	1,258.2	818.7	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1G-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 1G-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
9,000.0	90.00	180.00	7,441.0	-918.7	1,258.2	918.7	0.00	0.00	
9,100.0	90.00	180.00	7,441.0	-1,018.7	1,258.2	1,018.7	0.00	0.00	
9,200.0	90.00	180.00	7,441.0	-1,118.7	1,258.2	1,118.7	0.00	0.00	
9,300.0	90.00	180.00	7,441.0	-1,218.7	1,258.1	1,218.7	0.00	0.00	
9,400.0	90.00	180.00	7,441.0	-1,318.7	1,258.1	1,318.7	0.00	0.00	
9,500.0	90.00	180.00	7,441.0	-1,418.7	1,258.1	1,418.7	0.00	0.00	
9,600.0	90.00	180.00	7,441.0	-1,518.7	1,258.1	1,518.7	0.00	0.00	
9,700.0	90.00	180.00	7,441.0	-1,618.7	1,258.1	1,618.7	0.00	0.00	
9,800.0	90.00	180.00	7,441.0	-1,718.7	1,258.1	1,718.7	0.00	0.00	
9,900.0	90.00	180.00	7,441.0	-1,818.7	1,258.1	1,818.7	0.00	0.00	
10,000.0	90.00	180.00	7,441.0	-1,918.7	1,258.1	1,918.7	0.00	0.00	
10,100.0	90.00	180.00	7,441.0	-2,018.7	1,258.1	2,018.7	0.00	0.00	
10,200.0	90.00	180.00	7,441.0	-2,118.7	1,258.1	2,118.7	0.00	0.00	
10,300.0	90.00	180.00	7,441.0	-2,218.7	1,258.1	2,218.7	0.00	0.00	
10,400.0	90.00	180.00	7,441.0	-2,318.7	1,258.1	2,318.7	0.00	0.00	
10,500.0	90.00	180.00	7,441.0	-2,418.7	1,258.1	2,418.7	0.00	0.00	
10,600.0	90.00	180.00	7,441.0	-2,518.7	1,258.1	2,518.7	0.00	0.00	
10,700.0	90.00	180.00	7,441.0	-2,618.7	1,258.1	2,618.7	0.00	0.00	
10,800.0	90.00	180.00	7,441.0	-2,718.7	1,258.1	2,718.7	0.00	0.00	
10,900.0	90.00	180.00	7,441.0	-2,818.7	1,258.1	2,818.7	0.00	0.00	
11,000.0	90.00	180.00	7,441.0	-2,918.7	1,258.0	2,918.7	0.00	0.00	
11,100.0	90.00	180.00	7,441.0	-3,018.7	1,258.0	3,018.7	0.00	0.00	
11,200.0	90.00	180.00	7,441.0	-3,118.7	1,258.0	3,118.7	0.00	0.00	
11,300.0	90.00	180.00	7,441.0	-3,218.7	1,258.0	3,218.7	0.00	0.00	
11,400.0	90.00	180.00	7,441.0	-3,318.7	1,258.0	3,318.7	0.00	0.00	
11,500.0	90.00	180.00	7,441.0	-3,418.7	1,258.0	3,418.7	0.00	0.00	
11,600.0	90.00	180.00	7,441.0	-3,518.7	1,258.0	3,518.7	0.00	0.00	
11,700.0	90.00	180.00	7,441.0	-3,618.7	1,258.0	3,618.7	0.00	0.00	
11,800.0	90.00	180.00	7,441.0	-3,718.7	1,258.0	3,718.7	0.00	0.00	
11,900.0	90.00	180.00	7,441.0	-3,818.7	1,258.0	3,818.7	0.00	0.00	
12,000.0	90.00	180.00	7,441.0	-3,918.7	1,258.0	3,918.7	0.00	0.00	
12,100.0	90.00	180.00	7,441.0	-4,018.7	1,258.0	4,018.7	0.00	0.00	
12,135.7	90.00	180.00	7,441.0	-4,054.4	1,258.0	4,054.4	0.00	0.00	TD at 12135.7

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 1G-10H PBHL	0.00	0.00	7,441.0	-4,054.4	1,258.0	1,297,166.08	3,208,551.76	40.146700	-104.753990
- plan hits target center									
- Point									

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 1G-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 1G-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
727.7	727.0	Base of Fox Hills			
4,615.5	4,472.0	Sussex			
4,910.4	4,754.0	Sussex Marker			
5,271.0	5,099.0	Shannon			
6,475.6	6,282.0	Teepee Buttes			
7,382.8	7,157.0	Sharon Springs			
7,481.0	7,231.0	Niobrara			
7,554.1	7,280.0	B Chalk			
7,832.3	7,410.0	Ft. Hayes			
7,959.2	7,436.0	Codell			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,900.0	1,875.2	128.6	214.8	EOB; Inc=17°
5,204.0	5,034.8	625.0	1,043.5	Start Drop -1.00
6,904.0	6,710.0	753.7	1,258.3	EOD; Inc=0°
6,918.8	6,724.8	753.7	1,258.3	Start 8° build @ 6918' MD
8,043.8	7,441.0	37.5	1,258.2	LP @ 8043' MD; 90°
12,135.7	7,441.0	-4,054.4	1,258.0	TD at 12135.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S10-T2N-R66W (lone)

lone 1G-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 1G-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 1G-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	12,135.7	Plan #1 (Hz)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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
NWNE S2-T2N-R66W (lone)						
lone #3 (Existing) - DD - DD	6,966.0	6,853.8	1,030.9	1,012.9	57.399	CC, ES
lone #3 (Existing) - DD - DD	7,050.0	6,938.1	1,033.6	1,015.5	57.236	SF
lone #3 (Existing) - DD - Plan #1	6,918.8	6,769.8	1,093.0	1,069.1	45.840	CC, ES
lone #3 (Existing) - DD - Plan #1	7,050.0	6,900.2	1,098.5	1,074.4	45.611	SF
lone 2A-2H - HZ - Plan #1	7,211.9	11,947.4	685.4	639.0	14.786	CC, ES
lone 2A-2H - HZ - Plan #1	7,900.0	11,947.4	1,129.4	1,037.8	12.327	SF
lone 2B-2H - HZ - Plan #1	7,323.8	12,136.4	1,060.6	994.7	16.108	CC, ES
lone 2B-2H - HZ - Plan #1	7,950.0	12,136.4	1,364.6	1,275.2	15.274	SF
NWSW S2-T2N-R66W (lone)						
Cannon 13N-11HZ - HZ - HZ	7,000.0	1,862.0	818.1	788.3	27.465	SF
Cannon 13N-11HZ - HZ - HZ	7,700.0	2,364.2	687.8	667.5	33.988	ES
Cannon 13N-11HZ - HZ - HZ	7,700.1	2,364.3	687.8	667.5	33.989	CC
Cannon 36N-11HZ - HZ - HZ	5,564.2	5,196.2	1,636.7	1,608.7	58.469	CC
Cannon 36N-11HZ - HZ - HZ	5,600.0	5,232.0	1,636.8	1,608.6	58.071	ES
Cannon 36N-11HZ - HZ - HZ	12,135.7	11,867.0	2,446.9	2,299.5	16.609	SF
lone #3 (Existing) - DD - DD	6,966.0	6,853.8	1,030.9	1,012.9	57.399	CC, ES
lone #3 (Existing) - DD - DD	7,050.0	6,938.1	1,033.6	1,015.6	57.236	SF
lone #3 (Existing) - DD - Plan #1	6,918.8	6,769.8	1,093.0	1,069.1	45.840	CC, ES
lone #3 (Existing) - DD - Plan #1	7,050.0	6,900.2	1,098.5	1,074.4	45.611	SF
lone 3A-2H - HZ - Plan #1A	6,270.6	6,252.7	555.0	511.2	12.663	CC
lone 3A-2H - HZ - Plan #1A	6,300.0	6,278.4	555.2	510.9	12.531	ES
lone 3A-2H - HZ - Plan #1A	6,500.0	6,455.2	567.7	520.7	12.080	SF
lone 3A-2H - HZ - Plan #1B	6,600.5	6,527.8	603.1	563.0	15.036	CC, ES
lone 3A-2H - HZ - Plan #1B	6,700.0	6,606.3	605.7	564.8	14.810	SF
lone 3A-2H - HZ - Plan #2B	6,768.9	6,650.0	484.0	458.9	19.290	CC, ES
lone 3A-2H - HZ - Plan #2B	6,800.0	6,668.7	484.5	459.3	19.265	SF
lone 3A-2H - HZ - Plan #3	6,373.0	6,403.9	380.5	333.8	8.142	CC
lone 3A-2H - HZ - Plan #3	6,400.0	6,426.8	380.8	333.6	8.063	ES
lone 3A-2H - HZ - Plan #3	6,500.0	6,516.7	386.4	337.8	7.942	SF
lone 3A-2H - HZ - Plan #4	6,348.2	6,315.4	395.6	349.3	8.541	CC
lone 3A-2H - HZ - Plan #4	6,400.0	6,363.4	396.2	349.2	8.433	ES
lone 3A-2H - HZ - Plan #4	6,500.0	6,456.4	400.3	352.3	8.340	SF
lone 3A-2H - HZ - Plan #5	6,920.0	6,845.2	423.8	382.2	10.194	CC, ES
lone 3A-2H - HZ - Plan #5	6,950.0	6,868.8	424.6	383.0	10.189	SF
lone 3A-2H - HZ - Plan #6	6,898.7	6,775.0	745.6	715.9	25.136	CC, ES
lone 3A-2H - HZ - Plan #6	6,918.8	6,786.8	745.7	716.0	25.077	SF
lone 3A-2H - HZ - Plan #7	6,918.8	6,771.8	917.1	893.3	38.455	CC, ES
lone 3A-2H - HZ - Plan #7	6,950.0	6,791.5	917.5	893.6	38.390	SF
lone 3B-2H - HZ - Plan #1	5,421.6	4,947.5	1,529.1	1,511.0	84.619	CC, ES
lone 3B-2H - HZ - Plan #1	7,650.0	6,984.1	2,051.6	2,023.7	73.582	SF
lone 3B-2H - HZ - Plan #2	6,918.8	6,778.4	985.0	960.9	40.744	CC, ES
lone 3B-2H - HZ - Plan #2	7,000.0	6,856.1	987.8	963.5	40.649	SF
lone 3C-2H - HZ - Plan #1	6,765.0	6,593.8	862.7	834.9	31.049	CC, ES
lone 3C-2H - HZ - Plan #1	6,918.8	6,669.7	871.3	843.1	30.929	SF
lone 3C-2H - HZ - Plan #2	6,789.8	6,626.3	862.1	834.2	30.936	CC, ES
lone 3C-2H - HZ - Plan #2	6,918.8	6,700.0	868.5	840.3	30.798	SF
lone 3C-2H - HZ - Plan #3	6,958.2	6,897.9	397.5	365.0	12.233	CC, ES, SF
lone 3D-2H - HZ - Plan #1	6,307.0	6,075.0	902.4	876.9	35.420	CC, ES
lone 3D-2H - HZ - Plan #1	6,600.0	6,269.1	925.1	898.5	34.856	SF
lone 3D-2H - HZ - Plan #2	6,918.8	6,772.8	891.7	864.0	32.174	CC, ES
lone 3D-2H - HZ - Plan #2	6,950.0	6,804.0	892.3	864.5	32.147	SF
lone 3D-2H - HZ - Plan #3	6,918.8	6,772.8	891.7	864.0	32.174	CC, ES

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance		Separation Factor	Warning
			Between Centres (ft)	Between Ellipses (ft)		
NWSW S2-T2N-R66W (lone)						
lone 3D-2H - Hz - Plan #3	6,950.0	6,804.0	892.3	864.5	32.147	SF
S10-T2N-R66W (lone)						
lone #11 (Existing) - Existing - Existing	11,293.6	7,441.0	1,324.0	1,251.1	18.172	CC
lone #11 (Existing) - Existing - Existing	11,300.0	7,441.0	1,324.0	1,251.0	18.145	ES
lone #11 (Existing) - Existing - Existing	11,700.0	7,441.0	1,385.0	1,305.2	17.354	SF
lone #2 (Exsiting) - Hz - Hz	1,507.0	1,485.6	364.1	359.0	70.863	CC, ES
lone #2 (Exsiting) - Hz - Hz	9,200.0	7,425.6	1,391.5	1,359.4	43.223	SF
lone #41-10 (Existing) - Existing - Existing	3,712.1	3,592.1	106.3	84.4	4.857	CC, ES, SF
lone #43-10 (Existing) - Existing - Existing	10,444.4	7,425.0	605.4	546.9	10.348	CC, ES
lone #43-10 (Existing) - Existing - Existing	10,500.0	7,425.0	607.9	548.5	10.230	SF
lone #44-10 (Existing) - Existing - Existing	12,109.9	7,426.4	659.3	579.0	8.210	CC, ES
lone #44-10 (Existing) - Existing - Existing	12,135.7	7,426.1	659.8	579.0	8.171	SF
lone #8-2-10 (Exsiting) - Existing - Existing	8,684.8	7,551.0	56.2	23.2	1.702	CC, ES, SF
lone 1A-10H - Hz - Plan #1	200.0	200.0	61.5	60.8	94.203	CC, ES
lone 1A-10H - Hz - Plan #1	12,135.7	12,097.6	2,351.2	2,202.6	15.825	SF
lone 1B-10H - Hz - Plan #1	200.0	200.0	50.3	49.7	77.075	CC, ES
lone 1B-10H - Hz - Plan #1	12,135.7	11,839.7	2,011.0	1,863.2	13.607	SF
lone 1C-10H - Hz - Plan #1	200.0	200.0	39.1	38.5	59.947	CC, ES
lone 1C-10H - Hz - Plan #1	12,135.7	12,036.2	1,602.1	1,453.6	10.788	SF
lone 1D-10H - Hz - Plan #1	200.0	200.0	30.7	30.1	47.101	CC, ES
lone 1D-10H - Hz - Plan #1	12,135.7	11,809.6	1,214.9	1,068.3	8.288	SF
lone 1E-10H - Hz - Plan #1	200.0	200.0	19.6	18.9	29.974	CC, ES
lone 1E-10H - Hz - Plan #1	12,135.7	12,057.1	800.1	651.6	5.389	SF
lone 1F-10H - Hz - Plan #1	200.0	200.0	11.2	10.5	17.128	CC, ES
lone 1F-10H - Hz - Plan #1	12,135.7	11,897.1	440.5	305.1	3.252	SF
lone 42-10 (Existing) - Existing - Existing	9,405.8	7,425.0	644.6	602.8	15.437	CC, ES
lone 42-10 (Existing) - Existing - Existing	9,600.0	7,425.0	673.2	628.4	15.039	SF
lone 4-2-10 (Existing) - Existing - Existing	1,542.2	1,514.0	425.7	419.1	64.186	CC
lone 4-2-10 (Existing) - Existing - Existing	1,600.0	1,570.1	426.0	419.0	61.006	ES
lone 4-2-10 (Existing) - Existing - Existing	8,700.0	7,425.0	964.8	932.8	30.157	SF
lone 44-10 (Existing) - Existing - Existing	12,110.2	7,406.8	658.6	571.9	7.591	CC, ES
lone 44-10 (Existing) - Existing - Existing	12,135.7	7,406.5	659.1	571.9	7.559	SF
lone 6-0-10 (Existing) - Existing - Existing	1,920.0	1,966.6	48.5	41.1	6.591	CC, ES, SF
lone 6-4-10 (Existing) - Existing - Existing	9,953.7	7,425.0	1,277.7	1,227.3	25.340	CC, ES
lone 6-4-10 (Existing) - Existing - Existing	10,500.0	7,425.0	1,389.6	1,330.1	23.382	SF
lone 6-8-10 (Existing) - DD - Plan #1	12,135.7	7,516.8	1,316.8	1,227.6	14.758	CC, ES, SF
lone 8-6-10 (Existing) - DD - Plan #1	11,100.0	7,630.7	2.5	-76.6	0.032	Level 1, CC, ES, SF

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone #3 (Existing) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													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)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	64.2	64.2	0.0	0.0	60.66	1,253.4	2,230.0	2,558.2					
100.0	100.0	160.0	160.0	0.2	0.1	60.64	1,253.7	2,228.8	2,557.3	0.28	9,155.694			
200.0	200.0	246.2	246.2	0.3	0.2	60.62	1,254.4	2,228.2	2,557.0	0.53	4,833.762			
300.0	300.0	353.2	353.2	0.5	0.3	1.53	1,255.0	2,227.8	2,556.1	0.80	3,207.223			
400.0	400.0	456.8	456.8	0.7	0.4	1.52	1,254.9	2,227.2	2,553.0	1.06	2,404.064			
500.0	499.9	547.0	547.0	0.9	0.5	1.51	1,255.5	2,226.6	2,548.3	1.32	1,937.144			
600.0	599.7	649.3	649.2	1.1	0.6	1.49	1,256.4	2,226.1	2,542.2	1.58	1,609.399			
700.0	699.4	752.5	752.4	1.3	0.6	1.48	1,257.0	2,225.3	2,534.0	1.84	1,373.755			
800.0	798.9	849.5	849.5	1.5	0.7	1.46	1,257.9	2,224.6	2,524.2	2.10	1,199.604			
900.0	898.3	947.1	947.1	1.8	0.8	1.45	1,258.6	2,223.9	2,512.7	2.36	1,062.753			
1,000.0	997.4	1,043.4	1,043.3	2.0	0.9	1.44	1,259.5	2,223.4	2,499.6	2.62	952.859			
1,100.0	1,096.3	1,139.0	1,138.9	2.3	1.0	1.43	1,260.1	2,223.0	2,484.8	2.88	862.456			
1,200.0	1,194.9	1,229.1	1,229.1	2.7	1.1	1.45	1,260.0	2,223.3	2,468.5	3.13	787.704			
1,300.0	1,293.3	1,327.9	1,327.8	3.0	1.1	1.45	1,260.6	2,223.6	2,450.8	3.39	721.928			
1,400.0	1,391.2	1,439.4	1,439.4	3.4	1.2	1.45	1,261.3	2,223.3	2,431.0	3.67	662.886			
1,500.0	1,488.9	1,537.2	1,537.1	3.8	1.3	1.46	1,261.8	2,222.8	2,409.2	3.93	613.409			
1,600.0	1,586.1	1,631.8	1,631.7	4.2	1.4	1.46	1,262.3	2,222.4	2,385.8	4.19	570.061			
1,700.0	1,682.9	1,728.7	1,728.6	4.7	1.5	1.47	1,263.0	2,222.1	2,360.7	4.44	531.121			
1,800.0	1,779.3	1,830.9	1,830.8	5.2	1.6	1.47	1,263.6	2,221.6	2,333.9	4.71	495.595			
1,900.0	1,875.2	1,933.2	1,933.1	5.7	1.7	1.48	1,263.9	2,220.8	2,305.0	4.97	463.403			
2,000.0	1,970.8	2,023.5	2,023.4	6.3	1.8	1.48	1,264.4	2,220.1	2,275.4	5.23	434.894			
2,100.0	2,066.4	2,122.8	2,122.7	6.8	1.8	1.47	1,265.0	2,219.3	2,245.8	5.50	408.469			
2,200.0	2,162.1	2,223.7	2,223.6	7.3	1.9	1.46	1,265.7	2,218.1	2,216.0	5.77	384.351			
2,300.0	2,257.7	2,322.9	2,322.8	7.9	2.0	1.45	1,266.2	2,216.9	2,185.9	6.03	362.438			
2,400.0	2,353.3	2,420.5	2,420.4	8.4	2.1	1.45	1,266.5	2,215.7	2,155.8	6.30	342.438			
2,500.0	2,448.9	2,518.1	2,517.9	9.0	2.2	1.45	1,266.7	2,214.3	2,125.5	6.56	324.030			
2,600.0	2,544.6	2,606.3	2,606.2	9.5	2.3	1.44	1,267.1	2,213.1	2,095.3	6.82	307.445			
2,700.0	2,640.2	2,708.7	2,708.6	10.1	2.4	1.42	1,267.7	2,211.6	2,065.2	7.08	291.532			
2,800.0	2,735.8	2,801.6	2,801.4	10.6	2.4	1.41	1,268.3	2,210.1	2,034.9	7.34	277.091			
2,900.0	2,831.5	2,905.1	2,905.0	11.2	2.5	1.38	1,269.1	2,208.3	2,004.5	7.61	263.286			
3,000.0	2,927.1	3,000.0	2,999.8	11.7	2.6	1.36	1,269.7	2,206.4	1,974.0	7.88	250.652			
3,100.0	3,022.7	3,090.2	3,090.0	12.2	2.7	1.33	1,270.3	2,204.7	1,943.5	8.13	238.973			
3,200.0	3,118.4	3,178.7	3,178.5	12.8	2.8	1.31	1,271.1	2,203.2	1,913.3	8.39	228.084			
3,300.0	3,214.0	3,279.8	3,279.5	13.3	2.9	1.28	1,272.1	2,201.6	1,883.3	8.66	217.576			
3,400.0	3,309.6	3,367.6	3,367.3	13.9	2.9	1.25	1,272.9	2,200.2	1,853.1	8.91	207.957			
3,500.0	3,405.3	3,456.5	3,456.2	14.4	3.0	1.21	1,274.2	2,199.0	1,823.5	9.17	198.906			
3,600.0	3,500.9	3,559.3	3,559.0	15.0	3.1	1.16	1,275.9	2,197.5	1,793.9	9.44	190.095			
3,700.0	3,596.5	3,655.8	3,655.4	15.5	3.2	1.08	1,278.1	2,195.3	1,763.8	9.70	181.820			
3,800.0	3,692.1	3,756.6	3,756.1	16.1	3.3	0.98	1,280.7	2,192.9	1,733.8	9.97	173.934			
3,900.0	3,787.8	3,853.0	3,852.5	16.7	3.4	0.89	1,282.6	2,190.3	1,703.3	10.23	166.476			
4,000.0	3,883.4	3,947.0	3,946.5	17.2	3.5	0.81	1,284.3	2,188.3	1,673.1	10.49	159.456			
4,100.0	3,979.0	4,046.0	4,045.5	17.8	3.6	0.73	1,285.9	2,185.9	1,642.7	10.76	152.690			
4,200.0	4,074.7	4,140.3	4,139.8	18.3	3.6	0.67	1,287.2	2,183.8	1,612.2	11.02	146.308			
4,300.0	4,170.3	4,235.5	4,234.9	18.9	3.7	0.60	1,288.3	2,181.7	1,581.8	11.28	140.215			
4,400.0	4,265.9	4,330.1	4,329.4	19.4	3.8	0.53	1,289.6	2,179.6	1,551.4	11.54	134.402			
4,500.0	4,361.6	4,422.7	4,422.0	20.0	3.9	0.46	1,290.9	2,177.7	1,521.1	11.80	128.882			
4,600.0	4,457.2	4,518.0	4,517.3	20.5	4.0	0.39	1,292.1	2,175.8	1,490.9	12.06	123.576			
4,700.0	4,552.8	4,606.3	4,605.6	21.1	4.1	0.32	1,293.3	2,174.3	1,460.9	12.32	118.579			
4,800.0	4,648.5	4,696.9	4,696.2	21.6	4.1	0.26	1,294.5	2,173.2	1,431.3	12.58	113.801			
4,900.0	4,744.1	4,789.0	4,788.3	22.2	4.2	0.20	1,295.8	2,172.4	1,402.0	12.84	109.225			
5,000.0	4,839.7	4,880.5	4,879.8	22.7	4.3	0.14	1,297.1	2,171.8	1,373.0	13.09	104.854			
5,100.0	4,935.3	4,977.4	4,976.7	23.3	4.4	0.08	1,298.5	2,171.4	1,344.1	13.36	100.628			

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 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone #3 (Existing) - DD - DD													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		
5,204.0	5,034.8	5,076.4	5,075.6	23.9	4.5	0.02	1,299.7	2,171.0	1,314.0	1,300.3	13.63	96.410		
5,300.0	5,126.8	5,167.3	5,166.5	24.4	4.5	-0.03	1,300.8	2,170.7	1,287.0	1,273.1	13.88	92.737		
5,400.0	5,223.2	5,265.0	5,264.2	24.9	4.6	-0.07	1,301.8	2,170.6	1,260.6	1,246.5	14.14	89.164		
5,500.0	5,320.0	5,364.5	5,363.7	25.3	4.7	-0.09	1,302.3	2,170.5	1,235.7	1,221.3	14.40	85.830		
5,600.0	5,417.2	5,463.5	5,462.7	25.8	4.8	-0.10	1,302.4	2,170.5	1,212.3	1,197.7	14.65	82.732		
5,700.0	5,514.8	5,562.5	5,561.7	26.2	4.9	-0.10	1,302.4	2,170.4	1,190.5	1,175.6	14.91	79.859		
5,800.0	5,612.8	5,661.0	5,660.2	26.5	5.0	-0.10	1,302.2	2,170.3	1,170.3	1,155.1	15.16	77.202		
5,900.0	5,711.1	5,758.8	5,758.0	26.9	5.1	-0.07	1,301.6	2,170.4	1,151.8	1,136.4	15.41	74.757		
6,000.0	5,809.7	5,860.4	5,859.6	27.2	5.1	-0.03	1,300.7	2,170.7	1,135.0	1,119.4	15.66	72.493		
6,100.0	5,908.6	5,970.7	5,969.9	27.5	5.2	0.03	1,299.3	2,170.4	1,119.3	1,103.4	15.91	70.344		
6,200.0	6,007.7	6,083.7	6,082.9	27.8	5.3	0.10	1,297.0	2,169.0	1,104.1	1,088.0	16.17	68.291		
6,300.0	6,107.1	6,199.7	6,198.8	28.0	5.4	0.14	1,294.2	2,166.0	1,089.3	1,072.9	16.43	66.316		
6,400.0	6,206.6	6,294.5	6,293.5	28.2	5.5	0.13	1,292.4	2,162.5	1,075.6	1,058.9	16.66	64.545		
6,500.0	6,306.3	6,400.0	6,398.9	28.4	5.6	0.07	1,291.2	2,158.1	1,063.4	1,046.5	16.91	62.888		
6,600.0	6,406.1	6,496.7	6,495.5	28.6	5.7	0.01	1,289.9	2,153.9	1,052.9	1,035.7	17.15	61.405		
6,700.0	6,506.0	6,594.3	6,593.0	28.7	5.8	-0.03	1,288.4	2,150.1	1,044.3	1,026.9	17.38	60.082		
6,800.0	6,606.0	6,697.0	6,695.6	28.8	5.9	-0.08	1,287.1	2,145.9	1,037.5	1,019.9	17.62	58.880		
6,904.0	6,710.0	6,795.6	6,794.1	28.9	6.0	58.91	1,286.4	2,141.7	1,032.3	1,014.5	17.86	57.799		
6,918.8	6,724.8	6,809.5	6,808.0	28.9	6.0	58.89	1,286.4	2,141.1	1,031.8	1,013.9	17.90	57.643		
6,950.0	6,756.0	6,838.7	6,837.2	28.9	6.0	-121.23	1,286.3	2,139.8	1,031.0	1,013.1	17.94	57.469		
6,966.0	6,772.0	6,853.8	6,852.2	28.9	6.0	-121.29	1,286.4	2,139.2	1,030.9	1,012.9	17.96	57.399 CC, ES		
7,000.0	6,805.8	6,885.5	6,883.9	28.9	6.1	-121.44	1,286.4	2,137.9	1,031.4	1,013.4	18.00	57.298		
7,050.0	6,855.2	6,938.1	6,936.5	28.8	6.1	-121.73	1,286.6	2,135.8	1,033.6	1,015.5	18.06	57.236 SF		
7,100.0	6,904.0	6,992.9	6,991.3	28.8	6.2	-122.11	1,286.9	2,133.2	1,037.5	1,019.4	18.11	57.276		
7,150.0	6,952.0	7,037.4	7,035.7	28.7	6.2	-122.38	1,287.1	2,130.9	1,043.3	1,025.1	18.15	57.474		
7,200.0	6,998.8	7,079.4	7,077.6	28.6	6.2	-122.59	1,287.5	2,129.0	1,051.4	1,033.2	18.18	57.826		
7,250.0	7,044.3	7,126.2	7,124.4	28.5	6.3	-122.87	1,287.9	2,126.9	1,061.7	1,043.5	18.21	58.302		
7,300.0	7,088.2	7,177.4	7,175.5	28.3	6.3	-123.24	1,288.4	2,124.3	1,074.0	1,055.7	18.24	58.885		
7,350.0	7,130.4	7,225.7	7,223.7	28.2	6.4	-123.54	1,288.8	2,121.5	1,088.3	1,070.0	18.26	59.603		
7,400.0	7,170.6	7,271.3	7,269.3	28.0	6.4	-123.72	1,288.9	2,118.6	1,104.7	1,086.5	18.27	60.456		
7,450.0	7,208.6	7,313.2	7,311.1	27.8	6.5	-123.71	1,288.9	2,115.9	1,123.4	1,105.2	18.29	61.435		
7,500.0	7,244.3	7,349.5	7,347.3	27.7	6.5	-123.42	1,288.9	2,113.4	1,144.5	1,126.2	18.31	62.522		
7,550.0	7,277.4	7,383.1	7,380.8	27.5	6.5	-122.89	1,289.0	2,111.1	1,168.0	1,149.7	18.34	63.675		
7,600.0	7,307.8	7,411.8	7,409.4	27.3	6.6	-122.00	1,289.2	2,109.0	1,193.9	1,175.5	18.41	64.843		
7,650.0	7,335.4	7,435.3	7,432.9	27.2	6.6	-120.67	1,289.4	2,107.3	1,222.2	1,203.7	18.53	65.962		
7,700.0	7,360.0	7,456.0	7,453.5	27.0	6.6	-118.94	1,289.6	2,105.8	1,252.8	1,234.1	18.70	66.994		
7,750.0	7,381.6	7,473.9	7,471.3	26.9	6.6	-116.76	1,289.9	2,104.5	1,285.6	1,266.7	18.93	67.913		
7,800.0	7,399.9	7,488.8	7,486.2	26.8	6.6	-114.06	1,290.1	2,103.5	1,320.4	1,301.1	19.21	68.720		
7,850.0	7,414.9	7,500.0	7,497.4	26.7	6.6	-110.75	1,290.3	2,102.7	1,356.9	1,337.3	19.54	69.445		
7,900.0	7,426.6	7,509.6	7,507.0	26.6	6.6	-106.89	1,290.5	2,102.0	1,394.9	1,375.0	19.88	70.173		
7,950.0	7,434.9	7,515.7	7,513.0	26.5	6.7	-102.33	1,290.7	2,101.6	1,434.3	1,414.1	20.21	70.961		
8,000.0	7,439.7	7,518.8	7,516.1	26.5	6.7	-97.12	1,290.7	2,101.4	1,474.7	1,454.2	20.52	71.881		
8,043.8	7,441.0	7,519.1	7,516.4	26.5	6.7	-92.07	1,290.7	2,101.4	1,510.8	1,490.0	20.75	72.813		
8,100.0	7,441.0	7,518.1	7,515.5	26.6	6.7	-92.00	1,290.7	2,101.4	1,557.7	1,536.8	20.86	74.658		
8,200.0	7,441.0	7,516.4	7,513.7	26.7	6.7	-91.88	1,290.7	2,101.5	1,642.7	1,621.4	21.23	77.366		
8,300.0	7,441.0	7,514.7	7,512.0	27.0	6.7	-91.77	1,290.6	2,101.7	1,729.2	1,707.4	21.79	79.344		
8,400.0	7,441.0	7,513.0	7,510.4	27.4	6.7	-91.65	1,290.6	2,101.8	1,817.2	1,794.6	22.53	80.658		
8,500.0	7,441.0	7,511.3	7,508.7	27.8	6.7	-91.54	1,290.6	2,101.9	1,906.3	1,882.9	23.42	81.411		
8,600.0	7,441.0	7,500.0	7,497.4	28.4	6.6	-90.77	1,290.3	2,102.7	1,996.5	1,972.0	24.44	81.698		
8,700.0	7,441.0	7,500.0	7,497.4	29.1	6.6	-90.77	1,290.3	2,102.7	2,087.5	2,062.0	25.56	81.677		
8,800.0	7,441.0	7,500.0	7,497.4	29.9	6.6	-90.77	1,290.3	2,102.7	2,179.4	2,152.6	26.77	81.412		
8,900.0	7,441.0	7,500.0	7,497.4	30.8	6.6	-90.77	1,290.3	2,102.7	2,271.9	2,243.8	28.06	80.978		

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 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone #3 (Existing) - DD - DD													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		
9,000.0	7,441.0	7,500.0	7,497.4	31.7	6.6	-90.77	1,290.3	2,102.7	2,365.0	2,335.6	29.40	80.432		
9,100.0	7,441.0	7,500.0	7,497.4	32.7	6.6	-90.77	1,290.3	2,102.7	2,458.7	2,427.9	30.80	79.817		
9,200.0	7,441.0	7,500.0	7,497.4	33.8	6.6	-90.77	1,290.3	2,102.7	2,552.8	2,520.6	32.25	79.163		
9,300.0	7,441.0	7,500.0	7,497.4	34.9	6.6	-90.77	1,290.3	2,102.7	2,647.4	2,613.7	33.73	78.493		
9,400.0	7,441.0	7,500.0	7,497.4	36.1	6.6	-90.77	1,290.3	2,102.7	2,742.3	2,707.1	35.24	77.822		
9,500.0	7,441.0	7,500.0	7,497.4	37.3	6.6	-90.77	1,290.3	2,102.7	2,837.7	2,800.9	36.78	77.161		
9,600.0	7,441.0	7,500.0	7,497.4	38.6	6.6	-90.77	1,290.3	2,102.7	2,933.3	2,894.9	38.34	76.516		
9,700.0	7,441.0	7,500.0	7,497.4	39.9	6.6	-90.77	1,290.3	2,102.7	3,029.2	2,989.3	39.91	75.892		
9,800.0	7,441.0	7,500.0	7,497.4	41.2	6.6	-90.77	1,290.3	2,102.7	3,125.3	3,083.8	41.51	75.291		
9,900.0	7,441.0	7,500.0	7,497.4	42.6	6.6	-90.77	1,290.3	2,102.7	3,221.7	3,178.6	43.12	74.715		
10,000.0	7,441.0	7,500.0	7,497.4	44.0	6.6	-90.77	1,290.3	2,102.7	3,318.3	3,273.6	44.74	74.164		
10,100.0	7,441.0	7,500.0	7,497.4	45.4	6.6	-90.77	1,290.3	2,102.7	3,415.1	3,368.8	46.38	73.639		
10,200.0	7,441.0	7,500.0	7,497.4	46.9	6.6	-90.77	1,290.3	2,102.7	3,512.1	3,464.1	48.02	73.138		
10,300.0	7,441.0	7,500.0	7,497.4	48.4	6.6	-90.77	1,290.3	2,102.7	3,609.3	3,559.6	49.67	72.660		
10,400.0	7,441.0	7,500.0	7,497.4	49.8	6.6	-90.77	1,290.3	2,102.7	3,706.6	3,655.2	51.33	72.206		
10,500.0	7,441.0	7,500.0	7,497.4	51.3	6.6	-90.77	1,290.3	2,102.7	3,804.0	3,751.0	53.00	71.773		
10,600.0	7,441.0	7,500.0	7,497.4	52.9	6.6	-90.77	1,290.3	2,102.7	3,901.6	3,846.9	54.67	71.361		
10,700.0	7,441.0	7,500.0	7,497.4	54.4	6.6	-90.77	1,290.3	2,102.7	3,999.3	3,942.9	56.35	70.969		
10,800.0	7,441.0	7,480.6	7,478.0	55.9	6.6	-89.46	1,290.0	2,104.0	4,097.0	4,039.0	58.03	70.599		
10,900.0	7,441.0	7,479.5	7,477.0	57.5	6.6	-89.39	1,290.0	2,104.1	4,194.9	4,135.2	59.72	70.244		
11,000.0	7,441.0	7,478.5	7,476.0	59.1	6.6	-89.32	1,290.0	2,104.2	4,292.9	4,231.5	61.41	69.905		
11,100.0	7,441.0	7,477.5	7,475.0	60.7	6.6	-89.25	1,289.9	2,104.3	4,391.0	4,327.9	63.10	69.582		
11,200.0	7,441.0	7,476.5	7,474.0	62.2	6.6	-89.19	1,289.9	2,104.3	4,489.1	4,424.3	64.80	69.273		
11,300.0	7,441.0	7,475.6	7,473.0	63.8	6.6	-89.12	1,289.9	2,104.4	4,587.4	4,520.9	66.50	68.979		
11,400.0	7,441.0	7,474.6	7,472.1	65.4	6.6	-89.06	1,289.9	2,104.5	4,685.7	4,617.5	68.21	68.697		
11,500.0	7,441.0	7,473.7	7,471.2	67.1	6.6	-89.00	1,289.9	2,104.5	4,784.1	4,714.2	69.91	68.428		
11,600.0	7,441.0	7,472.8	7,470.2	68.7	6.6	-88.93	1,289.9	2,104.6	4,882.5	4,810.9	71.62	68.170		
11,700.0	7,441.0	7,471.9	7,469.3	70.3	6.6	-88.87	1,289.8	2,104.7	4,981.1	4,907.7	73.33	67.923		
11,800.0	7,441.0	7,471.0	7,468.5	71.9	6.6	-88.81	1,289.8	2,104.7	5,079.6	5,004.6	75.05	67.686		
11,900.0	7,441.0	7,470.1	7,467.6	73.6	6.6	-88.75	1,289.8	2,104.8	5,178.3	5,101.5	76.76	67.459		
12,000.0	7,441.0	7,469.3	7,466.7	75.2	6.6	-88.70	1,289.8	2,104.8	5,276.9	5,198.5	78.48	67.241		
12,100.0	7,441.0	7,468.4	7,465.9	76.9	6.6	-88.64	1,289.8	2,104.9	5,375.7	5,295.5	80.20	67.032		
12,135.7	7,441.0	7,468.1	7,465.6	77.5	6.6	-88.62	1,289.8	2,104.9	5,410.9	5,330.1	80.81	66.959		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone #3 (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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	45.0	45.0	0.0	0.1	60.67	1,253.3	2,230.3	2,558.3						
100.0	100.0	145.0	145.0	0.2	0.2	60.67	1,253.3	2,230.3	2,558.3	2,558.0	0.38	6,754.948			
200.0	200.0	245.0	245.0	0.3	0.4	60.67	1,253.3	2,230.3	2,558.3	2,557.6	0.73	3,515.166			
300.0	300.0	345.0	345.0	0.5	0.6	1.59	1,253.3	2,230.3	2,557.5	2,556.4	1.08	2,375.152			
400.0	400.0	445.0	445.0	0.7	0.8	1.59	1,253.3	2,230.3	2,554.9	2,553.4	1.43	1,792.378			
500.0	499.9	544.9	544.9	0.9	0.9	1.59	1,253.3	2,230.3	2,550.5	2,548.7	1.77	1,438.075			
600.0	599.7	644.7	644.7	1.1	1.1	1.60	1,253.3	2,230.3	2,544.4	2,542.3	2.12	1,199.599			
700.0	699.4	744.4	744.4	1.3	1.3	1.61	1,253.3	2,230.3	2,536.6	2,534.1	2.47	1,027.905			
800.0	798.9	843.9	843.9	1.5	1.4	1.62	1,253.3	2,230.3	2,527.0	2,524.2	2.81	898.209			
900.0	898.3	943.3	943.3	1.8	1.6	1.63	1,253.3	2,230.3	2,515.7	2,512.5	3.16	796.642			
1,000.0	997.4	1,042.4	1,042.4	2.0	1.8	1.64	1,253.3	2,230.3	2,502.6	2,499.1	3.50	714.834			
1,100.0	1,096.3	1,141.3	1,141.3	2.3	2.0	1.65	1,253.3	2,230.3	2,487.8	2,484.0	3.84	647.434			
1,200.0	1,194.9	1,239.9	1,239.9	2.7	2.1	1.67	1,253.3	2,230.3	2,471.3	2,467.2	4.18	590.863			
1,300.0	1,293.3	1,338.3	1,338.3	3.0	2.3	1.69	1,253.3	2,230.3	2,453.1	2,448.6	4.52	542.637			
1,400.0	1,391.2	1,436.2	1,436.2	3.4	2.5	1.71	1,253.3	2,230.3	2,433.2	2,428.3	4.86	500.975			
1,500.0	1,488.9	1,533.9	1,533.9	3.8	2.7	1.73	1,253.3	2,230.3	2,411.6	2,406.4	5.19	464.569			
1,600.0	1,586.1	1,631.1	1,631.1	4.2	2.8	1.75	1,253.3	2,230.3	2,388.2	2,382.7	5.52	432.435			
1,700.0	1,682.9	1,727.9	1,727.9	4.7	3.0	1.78	1,253.3	2,230.3	2,363.2	2,357.3	5.85	403.821			
1,800.0	1,779.3	1,824.3	1,824.3	5.2	3.2	1.81	1,253.3	2,230.3	2,336.5	2,330.3	6.18	378.140			
1,900.0	1,875.2	1,920.2	1,920.2	5.7	3.3	1.84	1,253.3	2,230.3	2,308.1	2,301.6	6.50	354.928			
2,000.0	1,970.8	2,015.8	2,015.8	6.3	3.5	1.86	1,253.3	2,230.3	2,278.9	2,272.0	6.84	333.013			
2,100.0	2,066.4	2,111.4	2,111.4	6.8	3.7	1.89	1,253.3	2,230.3	2,249.7	2,242.5	7.18	313.175			
2,200.0	2,162.1	2,207.1	2,207.1	7.3	3.8	1.91	1,253.3	2,230.3	2,220.4	2,212.9	7.52	295.133			
2,300.0	2,257.7	2,302.7	2,302.7	7.9	4.0	1.94	1,253.3	2,230.3	2,191.2	2,183.3	7.86	278.652			
2,400.0	2,353.3	2,398.3	2,398.3	8.4	4.2	1.96	1,253.3	2,230.3	2,162.0	2,153.8	8.20	263.537			
2,500.0	2,448.9	2,493.9	2,493.9	9.0	4.3	1.99	1,253.3	2,230.3	2,132.8	2,124.2	8.54	249.627			
2,600.0	2,544.6	2,589.6	2,589.6	9.5	4.5	2.02	1,253.3	2,230.3	2,103.5	2,094.7	8.88	236.780			
2,700.0	2,640.2	2,685.2	2,685.2	10.1	4.7	2.05	1,253.3	2,230.3	2,074.3	2,065.1	9.22	224.881			
2,800.0	2,735.8	2,780.8	2,780.8	10.6	4.8	2.08	1,253.3	2,230.3	2,045.1	2,035.5	9.56	213.828			
2,900.0	2,831.5	2,876.5	2,876.5	11.2	5.0	2.11	1,253.3	2,230.3	2,015.9	2,006.0	9.90	203.533			
3,000.0	2,927.1	2,972.1	2,972.1	11.7	5.2	2.14	1,253.3	2,230.3	1,986.7	1,976.4	10.24	193.921			
3,100.0	3,022.7	3,067.7	3,067.7	12.2	5.3	2.17	1,253.3	2,230.3	1,957.4	1,946.9	10.59	184.926			
3,200.0	3,118.4	3,163.4	3,163.4	12.8	5.5	2.20	1,253.3	2,230.3	1,928.2	1,917.3	10.93	176.490			
3,300.0	3,214.0	3,259.0	3,259.0	13.3	5.7	2.24	1,253.3	2,230.3	1,899.0	1,887.7	11.27	168.563			
3,400.0	3,309.6	3,354.6	3,354.6	13.9	5.8	2.27	1,253.3	2,230.3	1,869.8	1,858.2	11.61	161.101			
3,500.0	3,405.3	3,450.3	3,450.3	14.4	6.0	2.31	1,253.3	2,230.3	1,840.6	1,828.6	11.95	154.062			
3,600.0	3,500.9	3,545.9	3,545.9	15.0	6.2	2.34	1,253.3	2,230.3	1,811.4	1,799.1	12.29	147.413			
3,700.0	3,596.5	3,641.5	3,641.5	15.5	6.3	2.38	1,253.3	2,230.3	1,782.2	1,769.5	12.63	141.121			
3,800.0	3,692.1	3,737.1	3,737.1	16.1	6.5	2.42	1,253.3	2,230.3	1,752.9	1,740.0	12.97	135.159			
3,900.0	3,787.8	3,832.8	3,832.8	16.7	6.7	2.46	1,253.3	2,230.3	1,723.7	1,710.4	13.31	129.501			
4,000.0	3,883.4	3,928.4	3,928.4	17.2	6.8	2.51	1,253.3	2,230.3	1,694.5	1,680.9	13.65	124.125			
4,100.0	3,979.0	4,024.0	4,024.0	17.8	7.0	2.55	1,253.3	2,230.3	1,665.3	1,651.3	13.99	119.009			
4,200.0	4,074.7	4,119.7	4,119.7	18.3	7.2	2.60	1,253.3	2,230.3	1,636.1	1,621.8	14.33	114.136			
4,300.0	4,170.3	4,215.3	4,215.3	18.9	7.3	2.64	1,253.3	2,230.3	1,606.9	1,592.2	14.68	109.489			
4,400.0	4,265.9	4,310.9	4,310.9	19.4	7.5	2.69	1,253.3	2,230.3	1,577.7	1,562.7	15.02	105.052			
4,500.0	4,361.6	4,406.6	4,406.6	20.0	7.7	2.74	1,253.3	2,230.3	1,548.5	1,533.1	15.36	100.811			
4,600.0	4,457.2	4,502.2	4,502.2	20.5	7.8	2.80	1,253.3	2,230.3	1,519.3	1,503.6	15.70	96.753			
4,700.0	4,552.8	4,597.8	4,597.8	21.1	8.0	2.85	1,253.3	2,230.3	1,490.1	1,474.0	16.05	92.867			
4,800.0	4,648.5	4,693.5	4,693.5	21.6	8.2	2.91	1,253.3	2,230.3	1,460.9	1,444.5	16.39	89.142			
4,900.0	4,744.1	4,789.1	4,789.1	22.2	8.3	2.97	1,253.3	2,230.3	1,431.7	1,414.9	16.73	85.569			
5,000.0	4,839.7	4,884.7	4,884.7	22.7	8.5	3.03	1,253.3	2,230.3	1,402.4	1,385.4	17.07	82.137			
5,100.0	4,935.3	4,980.3	4,980.3	23.3	8.7	3.09	1,253.3	2,230.3	1,373.3	1,355.8	17.42	78.840			

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 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone #3 (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)				
5,204.0	5,034.8	5,079.8	5,079.8	23.9	8.8	3.16	1,253.3	2,230.3	1,342.9	1,325.1	17.78	75.544		
5,300.0	5,126.8	5,171.8	5,171.8	24.4	9.0	3.21	1,253.3	2,230.3	1,315.6	1,297.5	18.14	72.528		
5,400.0	5,223.2	5,268.2	5,268.2	24.9	9.2	3.26	1,253.3	2,230.3	1,288.9	1,270.4	18.52	69.609		
5,500.0	5,320.0	5,365.0	5,365.0	25.3	9.3	3.31	1,253.3	2,230.3	1,263.8	1,244.9	18.89	66.903		
5,600.0	5,417.2	5,462.2	5,462.2	25.8	9.5	3.36	1,253.3	2,230.3	1,240.4	1,221.2	19.26	64.399		
5,700.0	5,514.8	5,559.8	5,559.8	26.2	9.7	3.41	1,253.3	2,230.3	1,218.8	1,199.1	19.63	62.084		
5,800.0	5,612.8	5,657.8	5,657.8	26.5	9.8	3.45	1,253.3	2,230.3	1,198.8	1,178.8	20.00	59.948		
5,900.0	5,711.1	5,756.1	5,756.1	26.9	10.0	3.50	1,253.3	2,230.3	1,180.5	1,160.2	20.36	57.982		
6,000.0	5,809.7	5,854.7	5,854.7	27.2	10.2	3.53	1,253.3	2,230.3	1,164.0	1,143.3	20.72	56.177		
6,100.0	5,908.6	5,953.6	5,953.6	27.5	10.4	3.57	1,253.3	2,230.3	1,149.2	1,128.1	21.08	54.524		
6,200.0	6,007.7	6,052.7	6,052.7	27.8	10.5	3.60	1,253.3	2,230.3	1,136.1	1,114.6	21.43	53.016		
6,300.0	6,107.1	6,152.1	6,152.1	28.0	10.7	3.63	1,253.3	2,230.3	1,124.7	1,102.9	21.78	51.645		
6,400.0	6,206.6	6,251.6	6,251.6	28.2	10.9	3.66	1,253.3	2,230.3	1,115.1	1,092.9	22.12	50.404		
6,500.0	6,306.3	6,351.3	6,351.3	28.4	11.1	3.68	1,253.3	2,230.3	1,107.2	1,084.7	22.46	49.289		
6,600.0	6,406.1	6,451.1	6,451.1	28.6	11.2	3.70	1,253.3	2,230.3	1,101.0	1,078.2	22.80	48.292		
6,700.0	6,506.0	6,551.0	6,551.0	28.7	11.4	3.71	1,253.3	2,230.3	1,096.6	1,073.5	23.13	47.409		
6,800.0	6,606.0	6,651.0	6,651.0	28.8	11.6	3.72	1,253.3	2,230.3	1,093.9	1,070.4	23.46	46.634		
6,904.0	6,710.0	6,755.0	6,755.0	28.9	11.8	62.80	1,253.3	2,230.3	1,093.0	1,069.2	23.79	45.939		
6,918.8	6,724.8	6,769.8	6,769.8	28.9	11.8	62.80	1,253.3	2,230.3	1,093.0	1,069.1	23.84	45.840 CC, ES		
6,950.0	6,756.0	6,801.0	6,801.0	28.9	11.8	-117.22	1,253.3	2,230.3	1,093.3	1,069.4	23.91	45.719		
7,000.0	6,805.8	6,850.8	6,850.8	28.9	11.9	-117.27	1,253.3	2,230.3	1,095.1	1,071.1	24.01	45.613		
7,050.0	6,855.2	6,900.2	6,900.2	28.8	12.0	-117.36	1,253.3	2,230.3	1,098.5	1,074.4	24.08	45.611 SF		
7,100.0	6,904.0	6,949.0	6,949.0	28.8	12.1	-117.49	1,253.3	2,230.3	1,103.6	1,079.4	24.14	45.712		
7,150.0	6,952.0	6,997.0	6,997.0	28.7	12.2	-117.64	1,253.3	2,230.3	1,110.4	1,086.2	24.18	45.914		
7,200.0	6,998.8	7,043.8	7,043.8	28.6	12.3	-117.78	1,253.3	2,230.3	1,118.9	1,094.7	24.21	46.217		
7,250.0	7,044.3	7,089.3	7,089.3	28.5	12.3	-117.89	1,253.3	2,230.3	1,129.3	1,105.1	24.23	46.617		
7,300.0	7,088.2	7,133.2	7,133.2	28.3	12.4	-117.96	1,253.3	2,230.3	1,141.6	1,117.4	24.23	47.111		
7,350.0	7,130.4	7,175.4	7,175.4	28.2	12.5	-117.94	1,253.3	2,230.3	1,156.0	1,131.7	24.24	47.692		
7,400.0	7,170.6	7,215.6	7,215.6	28.0	12.6	-117.82	1,253.3	2,230.3	1,172.3	1,148.1	24.25	48.349		
7,450.0	7,208.6	7,253.6	7,253.6	27.8	12.6	-117.55	1,253.3	2,230.3	1,190.8	1,166.5	24.27	49.065		
7,500.0	7,244.3	7,289.3	7,289.3	27.7	12.7	-117.11	1,253.3	2,230.3	1,211.3	1,187.0	24.31	49.820		
7,550.0	7,277.4	7,322.4	7,322.4	27.5	12.8	-116.45	1,253.3	2,230.3	1,234.0	1,209.6	24.39	50.589		
7,600.0	7,307.8	7,352.8	7,352.8	27.3	12.8	-115.55	1,253.3	2,230.3	1,258.9	1,234.3	24.52	51.343		
7,650.0	7,335.4	7,380.4	7,380.4	27.2	12.9	-114.35	1,253.3	2,230.3	1,285.8	1,261.1	24.70	52.057		
7,700.0	7,360.0	7,405.0	7,405.0	27.0	12.9	-112.81	1,253.3	2,230.3	1,314.6	1,289.7	24.94	52.711		
7,750.0	7,381.6	7,426.6	7,426.6	26.9	12.9	-110.89	1,253.3	2,230.3	1,345.4	1,320.2	25.24	53.298		
7,800.0	7,399.9	7,444.9	7,444.9	26.8	13.0	-108.55	1,253.3	2,230.3	1,378.0	1,352.4	25.60	53.828		
7,850.0	7,414.9	7,459.9	7,459.9	26.7	13.0	-105.74	1,253.3	2,230.3	1,412.2	1,386.2	25.99	54.332		
7,900.0	7,426.6	7,471.6	7,471.6	26.6	13.0	-102.42	1,253.3	2,230.3	1,447.8	1,421.4	26.39	54.859		
7,950.0	7,434.9	7,479.9	7,479.9	26.5	13.0	-98.58	1,253.3	2,230.3	1,484.7	1,458.0	26.77	55.471		
8,000.0	7,439.7	7,484.7	7,484.7	26.5	13.0	-94.22	1,253.3	2,230.3	1,522.7	1,495.6	27.08	56.229		
8,043.8	7,441.0	7,486.0	7,486.0	26.5	13.0	-90.00	1,253.3	2,230.3	1,556.7	1,529.4	27.29	57.050		
8,100.0	7,441.0	7,486.0	7,486.0	26.6	13.0	-90.00	1,253.3	2,230.3	1,600.9	1,573.5	27.40	58.427		
8,200.0	7,441.0	7,486.0	7,486.0	26.7	13.0	-90.00	1,253.3	2,230.3	1,681.5	1,653.7	27.77	60.560		
8,300.0	7,441.0	7,486.0	7,486.0	27.0	13.0	-90.00	1,253.3	2,230.3	1,764.0	1,735.7	28.32	62.280		
8,400.0	7,441.0	7,486.0	7,486.0	27.4	13.0	-90.00	1,253.3	2,230.3	1,848.3	1,819.2	29.06	63.610		
8,500.0	7,441.0	7,486.0	7,486.0	27.8	13.0	-90.00	1,253.3	2,230.3	1,934.1	1,904.1	29.94	64.598		
8,600.0	7,441.0	7,486.0	7,486.0	28.4	13.0	-90.00	1,253.3	2,230.3	2,021.1	1,990.2	30.95	65.299		
8,700.0	7,441.0	7,486.0	7,486.0	29.1	13.0	-90.00	1,253.3	2,230.3	2,109.4	2,077.3	32.07	65.769		
8,800.0	7,441.0	7,486.0	7,486.0	29.9	13.0	-90.00	1,253.3	2,230.3	2,198.6	2,165.3	33.28	66.059		
8,900.0	7,441.0	7,486.0	7,486.0	30.8	13.0	-90.00	1,253.3	2,230.3	2,288.7	2,254.2	34.57	66.209		
9,000.0	7,441.0	7,486.0	7,486.0	31.7	13.0	-90.00	1,253.3	2,230.3	2,379.6	2,343.7	35.92	66.256		

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 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone #3 (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		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		
9,100.0	7,441.0	7,486.0	7,486.0	32.7	13.0	-90.00	1,253.3	2,230.3	2,471.2	2,433.9	37.32	66.226		
9,200.0	7,441.0	7,486.0	7,486.0	33.8	13.0	-90.00	1,253.3	2,230.3	2,563.5	2,524.7	38.76	66.140		
9,300.0	7,441.0	7,486.0	7,486.0	34.9	13.0	-90.00	1,253.3	2,230.3	2,656.3	2,616.0	40.24	66.014		
9,400.0	7,441.0	7,486.0	7,486.0	36.1	13.0	-90.00	1,253.3	2,230.3	2,749.6	2,707.8	41.75	65.860		
9,500.0	7,441.0	7,486.0	7,486.0	37.3	13.0	-90.00	1,253.3	2,230.3	2,843.4	2,800.1	43.29	65.688		
9,600.0	7,441.0	7,486.0	7,486.0	38.6	13.0	-90.00	1,253.3	2,230.3	2,937.5	2,892.7	44.85	65.504		
9,700.0	7,441.0	7,486.0	7,486.0	39.9	13.0	-90.00	1,253.3	2,230.3	3,032.1	2,985.7	46.42	65.313		
9,800.0	7,441.0	7,486.0	7,486.0	41.2	13.0	-90.00	1,253.3	2,230.3	3,127.0	3,078.9	48.02	65.119		
9,900.0	7,441.0	7,486.0	7,486.0	42.6	13.0	-90.00	1,253.3	2,230.3	3,222.2	3,172.5	49.63	64.925		
10,000.0	7,441.0	7,486.0	7,486.0	44.0	13.0	-90.00	1,253.3	2,230.3	3,317.6	3,266.4	51.25	64.732		
10,100.0	7,441.0	7,486.0	7,486.0	45.4	13.0	-90.00	1,253.3	2,230.3	3,413.4	3,360.5	52.89	64.542		
10,200.0	7,441.0	7,486.0	7,486.0	46.9	13.0	-90.00	1,253.3	2,230.3	3,509.4	3,454.8	54.53	64.357		
10,300.0	7,441.0	7,486.0	7,486.0	48.4	13.0	-90.00	1,253.3	2,230.3	3,605.5	3,549.4	56.18	64.177		
10,400.0	7,441.0	7,486.0	7,486.0	49.8	13.0	-90.00	1,253.3	2,230.3	3,701.9	3,644.1	57.84	64.001		
10,500.0	7,441.0	7,486.0	7,486.0	51.3	13.0	-90.00	1,253.3	2,230.3	3,798.5	3,739.0	59.51	63.832		
10,600.0	7,441.0	7,486.0	7,486.0	52.9	13.0	-90.00	1,253.3	2,230.3	3,895.3	3,834.1	61.18	63.667		
10,700.0	7,441.0	7,486.0	7,486.0	54.4	13.0	-90.00	1,253.3	2,230.3	3,992.2	3,929.3	62.86	63.509		
10,800.0	7,441.0	7,486.0	7,486.0	55.9	13.0	-90.00	1,253.3	2,230.3	4,089.3	4,024.7	64.54	63.356		
10,900.0	7,441.0	7,486.0	7,486.0	57.5	13.0	-90.00	1,253.3	2,230.3	4,186.5	4,120.2	66.23	63.209		
11,000.0	7,441.0	7,486.0	7,486.0	59.1	13.0	-90.00	1,253.3	2,230.3	4,283.8	4,215.9	67.92	63.067		
11,100.0	7,441.0	7,486.0	7,486.0	60.7	13.0	-90.00	1,253.3	2,230.3	4,381.2	4,311.6	69.62	62.930		
11,200.0	7,441.0	7,486.0	7,486.0	62.2	13.0	-90.00	1,253.3	2,230.3	4,478.8	4,407.5	71.32	62.798		
11,300.0	7,441.0	7,486.0	7,486.0	63.8	13.0	-90.00	1,253.3	2,230.3	4,576.5	4,503.4	73.02	62.671		
11,400.0	7,441.0	7,486.0	7,486.0	65.4	13.0	-90.00	1,253.3	2,230.3	4,674.2	4,599.5	74.73	62.549		
11,500.0	7,441.0	7,486.0	7,486.0	67.1	13.0	-90.00	1,253.3	2,230.3	4,772.1	4,695.7	76.44	62.432		
11,600.0	7,441.0	7,486.0	7,486.0	68.7	13.0	-90.00	1,253.3	2,230.3	4,870.0	4,791.9	78.15	62.318		
11,700.0	7,441.0	7,486.0	7,486.0	70.3	13.0	-90.00	1,253.3	2,230.3	4,968.1	4,888.2	79.86	62.209		
11,800.0	7,441.0	7,486.0	7,486.0	71.9	13.0	-90.00	1,253.3	2,230.3	5,066.2	4,984.6	81.58	62.104		
11,900.0	7,441.0	7,486.0	7,486.0	73.6	13.0	-90.00	1,253.3	2,230.3	5,164.3	5,081.1	83.29	62.003		
12,000.0	7,441.0	7,486.0	7,486.0	75.2	13.0	-90.00	1,253.3	2,230.3	5,262.6	5,177.6	85.01	61.905		
12,100.0	7,441.0	7,486.0	7,486.0	76.9	13.0	-90.00	1,253.3	2,230.3	5,360.9	5,274.2	86.73	61.810		
12,135.7	7,441.0	7,486.0	7,486.0	77.5	13.0	-90.00	1,253.3	2,230.3	5,396.0	5,308.6	87.35	61.777		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone 2A-2H - 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)				
0.0	0.0	47.0	47.0	0.0	0.1	25.78	5,566.4	2,688.2	6,181.6					
100.0	100.0	147.0	147.0	0.2	0.2	25.78	5,566.4	2,688.2	6,181.6	6,181.2	0.39	N/A		
200.0	200.0	248.2	248.1	0.3	0.4	25.77	5,566.6	2,687.9	6,181.5	6,180.8	0.74	8,381.281		
300.0	300.0	350.4	350.4	0.5	0.6	-33.35	5,568.1	2,684.7	6,180.8	6,179.7	1.10	5,599.932		
400.0	400.0	452.2	451.9	0.7	0.8	-33.44	5,571.1	2,678.2	6,178.5	6,177.0	1.49	4,135.652		
500.0	499.9	553.0	552.1	0.9	1.1	-33.58	5,575.6	2,668.6	6,174.8	6,172.9	1.92	3,213.432		
600.0	599.7	652.6	650.7	1.1	1.4	-33.77	5,581.6	2,655.9	6,169.6	6,167.2	2.40	2,575.144		
700.0	699.4	750.4	747.1	1.3	1.7	-34.00	5,588.7	2,640.9	6,163.1	6,160.2	2.90	2,125.376		
800.0	798.9	847.5	842.7	1.5	2.0	-34.25	5,595.9	2,625.5	6,155.2	6,151.7	3.42	1,801.543		
900.0	898.3	944.2	937.9	1.8	2.3	-34.52	5,603.1	2,610.2	6,145.9	6,141.9	3.94	1,558.135		
1,000.0	997.4	1,040.5	1,032.8	2.0	2.7	-34.80	5,610.2	2,594.9	6,135.3	6,130.8	4.48	1,368.814		
1,100.0	1,096.3	1,136.5	1,127.2	2.3	3.0	-35.11	5,617.4	2,579.7	6,123.3	6,118.3	5.03	1,217.374		
1,200.0	1,194.9	1,232.0	1,221.2	2.7	3.3	-35.43	5,624.5	2,564.6	6,110.1	6,104.5	5.59	1,093.400		
1,300.0	1,293.3	1,327.0	1,314.8	3.0	3.7	-35.76	5,631.5	2,549.5	6,095.6	6,089.4	6.16	989.937		
1,400.0	1,391.2	1,421.5	1,407.9	3.4	4.0	-36.12	5,638.6	2,534.5	6,079.8	6,073.0	6.74	902.184		
1,500.0	1,488.9	1,1947.4	7,296.0	3.8	80.9	-26.31	1,246.0	1,587.5	6,056.8	6,023.5	33.38	181.465		
1,600.0	1,586.1	11,947.4	7,296.0	4.2	80.9	-31.85	1,246.0	1,587.5	5,957.2	5,928.8	28.44	209.484		
1,700.0	1,682.9	11,947.4	7,296.0	4.7	80.9	-39.72	1,246.0	1,587.5	5,857.5	5,833.6	23.86	245.480		
1,800.0	1,779.3	11,947.4	7,296.0	5.2	80.9	-51.20	1,246.0	1,587.5	5,757.7	5,731.3	26.41	218.021		
1,900.0	1,875.2	11,947.4	7,296.0	5.7	80.9	-67.65	1,246.0	1,587.5	5,657.8	5,615.3	42.50	133.115		
2,000.0	1,970.8	11,947.4	7,296.0	6.3	80.9	-67.65	1,246.0	1,587.5	5,557.9	5,514.9	43.00	129.261		
2,100.0	2,066.4	11,947.4	7,296.0	6.8	80.9	-67.65	1,246.0	1,587.5	5,458.1	5,414.6	43.50	125.485		
2,200.0	2,162.1	11,947.4	7,296.0	7.3	80.9	-67.65	1,246.0	1,587.5	5,358.2	5,314.2	44.00	121.786		
2,300.0	2,257.7	11,947.4	7,296.0	7.9	80.9	-67.65	1,246.0	1,587.5	5,258.3	5,213.8	44.50	118.165		
2,400.0	2,353.3	11,947.4	7,296.0	8.4	80.9	-67.65	1,246.0	1,587.5	5,158.5	5,113.5	45.00	114.621		
2,500.0	2,448.9	11,947.4	7,296.0	9.0	80.9	-67.65	1,246.0	1,587.5	5,058.6	5,013.1	45.51	111.152		
2,600.0	2,544.6	11,947.4	7,296.0	9.5	80.9	-67.65	1,246.0	1,587.5	4,958.8	4,912.7	46.02	107.756		
2,700.0	2,640.2	11,947.4	7,296.0	10.1	80.9	-67.65	1,246.0	1,587.5	4,858.9	4,812.4	46.53	104.432		
2,800.0	2,735.8	11,947.4	7,296.0	10.6	80.9	-67.65	1,246.0	1,587.5	4,759.1	4,712.0	47.04	101.179		
2,900.0	2,831.5	11,947.4	7,296.0	11.2	80.9	-67.65	1,246.0	1,587.5	4,659.2	4,611.7	47.55	97.993		
3,000.0	2,927.1	11,947.4	7,296.0	11.7	80.9	-67.65	1,246.0	1,587.5	4,559.4	4,511.4	48.06	94.875		
3,100.0	3,022.7	11,947.4	7,296.0	12.2	80.9	-67.65	1,246.0	1,587.5	4,459.6	4,411.0	48.57	91.821		
3,200.0	3,118.4	11,947.4	7,296.0	12.8	80.9	-67.65	1,246.0	1,587.5	4,359.8	4,310.7	49.08	88.830		
3,300.0	3,214.0	11,947.4	7,296.0	13.3	80.9	-67.65	1,246.0	1,587.5	4,260.0	4,210.4	49.59	85.900		
3,400.0	3,309.6	11,947.4	7,296.0	13.9	80.9	-67.65	1,246.0	1,587.5	4,160.2	4,110.1	50.11	83.029		
3,500.0	3,405.3	11,947.4	7,296.0	14.4	80.9	-67.65	1,246.0	1,587.5	4,060.4	4,009.8	50.62	80.217		
3,600.0	3,500.9	11,947.4	7,296.0	15.0	80.9	-67.65	1,246.0	1,587.5	3,960.7	3,909.5	51.13	77.460		
3,700.0	3,596.5	11,947.4	7,296.0	15.5	80.9	-67.65	1,246.0	1,587.5	3,860.9	3,809.3	51.65	74.758		
3,800.0	3,692.1	11,947.4	7,296.0	16.1	80.9	-67.65	1,246.0	1,587.5	3,761.2	3,709.0	52.16	72.110		
3,900.0	3,787.8	11,947.4	7,296.0	16.7	80.9	-67.65	1,246.0	1,587.5	3,661.4	3,608.8	52.67	69.513		
4,000.0	3,883.4	11,947.4	7,296.0	17.2	80.9	-67.65	1,246.0	1,587.5	3,561.7	3,508.5	53.19	66.966		
4,100.0	3,979.0	11,947.4	7,296.0	17.8	80.9	-67.65	1,246.0	1,587.5	3,462.0	3,408.3	53.70	64.468		
4,200.0	4,074.7	11,947.4	7,296.0	18.3	80.9	-67.65	1,246.0	1,587.5	3,362.3	3,308.1	54.22	62.018		
4,300.0	4,170.3	11,947.4	7,296.0	18.9	80.9	-67.65	1,246.0	1,587.5	3,262.7	3,208.0	54.73	59.614		
4,400.0	4,265.9	11,947.4	7,296.0	19.4	80.9	-67.65	1,246.0	1,587.5	3,163.1	3,107.8	55.25	57.255		
4,500.0	4,361.6	11,947.4	7,296.0	20.0	80.9	-67.65	1,246.0	1,587.5	3,063.4	3,007.7	55.76	54.939		
4,600.0	4,457.2	11,947.4	7,296.0	20.5	80.9	-67.65	1,246.0	1,587.5	2,963.9	2,907.6	56.28	52.667		
4,700.0	4,552.8	11,947.4	7,296.0	21.1	80.9	-67.65	1,246.0	1,587.5	2,864.3	2,807.5	56.79	50.436		
4,800.0	4,648.5	11,947.4	7,296.0	21.6	80.9	-67.65	1,246.0	1,587.5	2,764.8	2,707.5	57.31	48.246		
4,900.0	4,744.1	11,947.4	7,296.0	22.2	80.9	-67.65	1,246.0	1,587.5	2,665.3	2,607.5	57.82	46.095		
5,000.0	4,839.7	11,947.4	7,296.0	22.7	80.9	-67.65	1,246.0	1,587.5	2,565.8	2,507.5	58.34	43.983		
5,100.0	4,935.3	11,947.4	7,296.0	23.3	80.9	-67.65	1,246.0	1,587.5	2,466.4	2,407.6	58.85	41.909		

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 1G-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 1G-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													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		
5,204.0	5,034.8	11,947.4	7,296.0	23.9	80.9	-67.65	1,246.0	1,587.5	2,363.1	2,303.7	59.39	39.791		
5,300.0	5,126.8	11,947.4	7,296.0	24.4	80.9	-60.61	1,246.0	1,587.5	2,267.8	2,216.3	51.50	44.037		
5,400.0	5,223.2	11,947.4	7,296.0	24.9	80.9	-54.45	1,246.0	1,587.5	2,168.7	2,123.6	45.14	48.050		
5,500.0	5,320.0	11,947.4	7,296.0	25.3	80.9	-49.33	1,246.0	1,587.5	2,069.9	2,028.9	41.02	50.458		
5,600.0	5,417.2	11,947.4	7,296.0	25.8	80.9	-45.10	1,246.0	1,587.5	1,971.4	1,932.3	39.06	50.469		
5,700.0	5,514.8	11,947.4	7,296.0	26.2	80.9	-41.60	1,246.0	1,587.5	1,873.2	1,834.5	38.72	48.383		
5,800.0	5,612.8	11,947.4	7,296.0	26.5	80.9	-38.68	1,246.0	1,587.5	1,775.6	1,736.3	39.33	45.150		
5,900.0	5,711.1	11,947.4	7,296.0	26.9	80.9	-36.23	1,246.0	1,587.5	1,678.6	1,638.2	40.39	41.562		
6,000.0	5,809.7	11,947.4	7,296.0	27.2	80.9	-34.17	1,246.0	1,587.5	1,582.3	1,540.7	41.60	38.031		
6,100.0	5,908.6	11,947.4	7,296.0	27.5	80.9	-32.43	1,246.0	1,587.5	1,486.9	1,444.1	42.83	34.716		
6,200.0	6,007.7	11,947.4	7,296.0	27.8	80.9	-30.95	1,246.0	1,587.5	1,392.7	1,348.7	43.99	31.658		
6,300.0	6,107.1	11,947.4	7,296.0	28.0	80.9	-29.69	1,246.0	1,587.5	1,299.9	1,254.9	45.06	28.848		
6,400.0	6,206.6	11,947.4	7,296.0	28.2	80.9	-28.62	1,246.0	1,587.5	1,208.9	1,162.9	46.02	26.268		
6,500.0	6,306.3	11,947.4	7,296.0	28.4	80.9	-27.72	1,246.0	1,587.5	1,120.2	1,073.3	46.88	23.895		
6,600.0	6,406.1	11,947.4	7,296.0	28.6	80.9	-26.95	1,246.0	1,587.5	1,034.4	986.7	47.63	21.715		
6,700.0	6,506.0	11,947.4	7,296.0	28.7	80.9	-26.30	1,246.0	1,587.5	952.2	903.9	48.29	19.719		
6,800.0	6,606.0	11,947.4	7,296.0	28.8	80.9	-25.76	1,246.0	1,587.5	874.8	825.9	48.85	17.908		
6,904.0	6,710.0	11,947.4	7,296.0	28.9	80.9	33.77	1,246.0	1,587.5	800.8	751.5	49.33	16.233		
6,918.8	6,724.8	11,947.4	7,296.0	28.9	80.9	33.77	1,246.0	1,587.5	790.9	741.6	49.35	16.026		
6,950.0	6,756.0	11,947.4	7,296.0	28.9	80.9	-147.36	1,246.0	1,587.5	771.1	722.4	48.61	15.863		
7,000.0	6,805.8	11,947.4	7,296.0	28.9	80.9	-148.81	1,246.0	1,587.5	742.8	695.1	47.71	15.570		
7,050.0	6,855.2	11,947.4	7,296.0	28.8	80.9	-149.88	1,246.0	1,587.5	719.5	672.5	47.09	15.281		
7,100.0	6,904.0	11,947.4	7,296.0	28.8	80.9	-150.63	1,246.0	1,587.5	701.9	655.3	46.68	15.037		
7,150.0	6,952.0	11,947.4	7,296.0	28.7	80.9	-151.09	1,246.0	1,587.5	690.5	644.0	46.44	14.868		
7,200.0	6,998.8	11,947.4	7,296.0	28.6	80.9	-151.28	1,246.0	1,587.5	685.5	639.2	46.35	14.791		
7,211.9	7,009.8	11,947.4	7,296.0	28.6	80.9	-151.29	1,246.0	1,587.5	685.4	639.0	46.35	14.786 CC, ES		
7,250.0	7,044.3	11,947.4	7,296.0	28.5	80.9	-151.22	1,246.0	1,587.5	687.3	640.9	46.41	14.809		
7,300.0	7,088.2	11,947.4	7,296.0	28.3	80.9	-150.89	1,246.0	1,587.5	695.7	649.0	46.64	14.915		
7,350.0	7,130.4	11,947.4	7,296.0	28.2	80.9	-150.28	1,246.0	1,587.5	710.4	663.3	47.09	15.087		
7,400.0	7,170.6	11,947.4	7,296.0	28.0	80.9	-149.37	1,246.0	1,587.5	731.0	683.2	47.81	15.290		
7,450.0	7,208.6	11,947.4	7,296.0	27.8	80.9	-148.10	1,246.0	1,587.5	757.0	708.1	48.90	15.481		
7,500.0	7,244.3	11,947.4	7,296.0	27.7	80.9	-146.43	1,246.0	1,587.5	787.6	737.1	50.46	15.609		
7,550.0	7,277.4	11,947.4	7,296.0	27.5	80.9	-144.24	1,246.0	1,587.5	822.2	769.6	52.64	15.620		
7,600.0	7,307.8	11,947.4	7,296.0	27.3	80.9	-141.40	1,246.0	1,587.5	860.2	804.6	55.61	15.468		
7,650.0	7,335.4	11,947.4	7,296.0	27.2	80.9	-137.74	1,246.0	1,587.5	901.0	841.4	59.60	15.118		
7,700.0	7,360.0	11,947.4	7,296.0	27.0	80.9	-132.99	1,246.0	1,587.5	944.0	879.2	64.79	14.570		
7,750.0	7,381.6	11,947.4	7,296.0	26.9	80.9	-126.83	1,246.0	1,587.5	988.7	917.5	71.27	13.874		
7,800.0	7,399.9	11,947.4	7,296.0	26.8	80.9	-118.86	1,246.0	1,587.5	1,034.8	956.1	78.75	13.141		
7,850.0	7,414.9	11,947.4	7,296.0	26.7	80.9	-108.79	1,246.0	1,587.5	1,081.8	995.6	86.20	12.550		
7,900.0	7,426.6	11,947.4	7,296.0	26.6	80.9	-96.68	1,246.0	1,587.5	1,129.4	1,037.8	91.62	12.327 SF		
7,950.0	7,434.9	11,947.4	7,296.0	26.5	80.9	-83.31	1,246.0	1,587.5	1,177.3	1,084.6	92.72	12.697		
8,000.0	7,439.7	11,947.4	7,296.0	26.5	80.9	-70.12	1,246.0	1,587.5	1,225.3	1,136.6	88.71	13.812		
8,043.8	7,441.0	11,947.4	7,296.0	26.5	80.9	-59.75	1,246.0	1,587.5	1,267.2	1,185.0	82.19	15.417		
8,100.0	7,441.0	11,947.4	7,296.0	26.6	80.9	-59.75	1,246.0	1,587.5	1,320.9	1,238.5	82.31	16.047		
8,200.0	7,441.0	11,947.4	7,296.0	26.7	80.9	-59.75	1,246.0	1,587.5	1,416.9	1,334.3	82.64	17.145		
8,300.0	7,441.0	11,947.4	7,296.0	27.0	80.9	-59.75	1,246.0	1,587.5	1,513.4	1,430.3	83.12	18.208		
8,400.0	7,441.0	11,947.4	7,296.0	27.4	80.9	-59.75	1,246.0	1,587.5	1,610.4	1,526.7	83.74	19.232		
8,500.0	7,441.0	11,947.4	7,296.0	27.8	80.9	-59.75	1,246.0	1,587.5	1,707.7	1,623.3	84.47	20.216		
8,600.0	7,441.0	11,947.4	7,296.0	28.4	80.9	-59.75	1,246.0	1,587.5	1,805.4	1,720.0	85.31	21.161		
8,700.0	7,441.0	11,947.4	7,296.0	29.1	80.9	-59.75	1,246.0	1,587.5	1,903.2	1,817.0	86.25	22.068		
8,800.0	7,441.0	11,947.4	7,296.0	29.9	80.9	-59.75	1,246.0	1,587.5	2,001.3	1,914.0	87.25	22.937		
8,900.0	7,441.0	11,947.4	7,296.0	30.8	80.9	-59.75	1,246.0	1,587.5	2,099.6	2,011.2	88.33	23.771		

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 1G-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 1G-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 NWNE S2-T2N-R66W (lone) - lone 2A-2H - 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	7,441.0	11,947.4	7,296.0	31.7	80.9	-59.75	1,246.0	1,587.5	2,198.0	2,108.5	89.45	24.571		
9,100.0	7,441.0	11,947.4	7,296.0	32.7	80.9	-59.75	1,246.0	1,587.5	2,296.5	2,205.9	90.63	25.340		
9,200.0	7,441.0	11,947.4	7,296.0	33.8	80.9	-59.75	1,246.0	1,587.5	2,395.2	2,303.4	91.84	26.080		
9,300.0	7,441.0	11,947.4	7,296.0	34.9	80.9	-59.75	1,246.0	1,587.5	2,494.0	2,400.9	93.09	26.792		
9,400.0	7,441.0	11,947.4	7,296.0	36.1	80.9	-59.75	1,246.0	1,587.5	2,592.8	2,498.5	94.36	27.477		
9,500.0	7,441.0	11,947.4	7,296.0	37.3	80.9	-59.75	1,246.0	1,587.5	2,691.8	2,596.1	95.66	28.138		
9,600.0	7,441.0	11,947.4	7,296.0	38.6	80.9	-59.75	1,246.0	1,587.5	2,790.8	2,693.8	96.99	28.775		
9,700.0	7,441.0	11,947.4	7,296.0	39.9	80.9	-59.75	1,246.0	1,587.5	2,889.9	2,791.6	98.33	29.391		
9,800.0	7,441.0	11,947.4	7,296.0	41.2	80.9	-59.75	1,246.0	1,587.5	2,989.1	2,889.4	99.69	29.985		
9,900.0	7,441.0	11,947.4	7,296.0	42.6	80.9	-59.75	1,246.0	1,587.5	3,088.3	2,987.2	101.06	30.560		
10,000.0	7,441.0	11,947.4	7,296.0	44.0	80.9	-59.75	1,246.0	1,587.5	3,187.5	3,085.1	102.44	31.116		
10,100.0	7,441.0	11,947.4	7,296.0	45.4	80.9	-59.75	1,246.0	1,587.5	3,286.8	3,183.0	103.84	31.654		
10,200.0	7,441.0	11,947.4	7,296.0	46.9	80.9	-59.75	1,246.0	1,587.5	3,386.2	3,281.0	105.24	32.176		
10,300.0	7,441.0	11,947.4	7,296.0	48.4	80.9	-59.75	1,246.0	1,587.5	3,485.6	3,378.9	106.65	32.681		
10,400.0	7,441.0	11,947.4	7,296.0	49.8	80.9	-59.75	1,246.0	1,587.5	3,585.0	3,476.9	108.08	33.171		
10,500.0	7,441.0	11,947.4	7,296.0	51.3	80.9	-59.75	1,246.0	1,587.5	3,684.4	3,574.9	109.50	33.647		
10,600.0	7,441.0	11,947.4	7,296.0	52.9	80.9	-59.75	1,246.0	1,587.5	3,783.9	3,673.0	110.94	34.109		
10,700.0	7,441.0	11,947.4	7,296.0	54.4	80.9	-59.75	1,246.0	1,587.5	3,883.4	3,771.0	112.38	34.557		
10,800.0	7,441.0	11,947.4	7,296.0	55.9	80.9	-59.75	1,246.0	1,587.5	3,983.0	3,869.1	113.82	34.993		
10,900.0	7,441.0	11,947.4	7,296.0	57.5	80.9	-59.75	1,246.0	1,587.5	4,082.5	3,967.2	115.27	35.416		
11,000.0	7,441.0	11,947.4	7,296.0	59.1	80.9	-59.75	1,246.0	1,587.5	4,182.1	4,065.4	116.73	35.828		
11,100.0	7,441.0	11,947.4	7,296.0	60.7	80.9	-59.75	1,246.0	1,587.5	4,281.7	4,163.5	118.18	36.229		
11,200.0	7,441.0	11,947.4	7,296.0	62.2	80.9	-59.75	1,246.0	1,587.5	4,381.3	4,261.6	119.65	36.619		
11,300.0	7,441.0	11,947.4	7,296.0	63.8	80.9	-59.75	1,246.0	1,587.5	4,480.9	4,359.8	121.11	36.999		
11,400.0	7,441.0	11,947.4	7,296.0	65.4	80.9	-59.75	1,246.0	1,587.5	4,580.6	4,458.0	122.58	37.369		
11,500.0	7,441.0	11,947.4	7,296.0	67.1	80.9	-59.75	1,246.0	1,587.5	4,680.2	4,556.2	124.05	37.729		
11,600.0	7,441.0	11,947.4	7,296.0	68.7	80.9	-59.75	1,246.0	1,587.5	4,779.9	4,654.4	125.52	38.081		
11,700.0	7,441.0	11,947.4	7,296.0	70.3	80.9	-59.75	1,246.0	1,587.5	4,879.6	4,752.6	127.00	38.423		
11,800.0	7,441.0	11,947.4	7,296.0	71.9	80.9	-59.75	1,246.0	1,587.5	4,979.3	4,850.8	128.47	38.757		
11,900.0	7,441.0	11,947.4	7,296.0	73.6	80.9	-59.75	1,246.0	1,587.5	5,079.0	4,949.0	129.95	39.084		
12,000.0	7,441.0	11,947.4	7,296.0	75.2	80.9	-59.75	1,246.0	1,587.5	5,178.7	5,047.3	131.43	39.402		
12,100.0	7,441.0	11,947.4	7,296.0	76.9	80.9	-59.75	1,246.0	1,587.5	5,278.5	5,145.5	132.92	39.713		
12,135.7	7,441.0	11,947.4	7,296.0	77.5	80.9	-59.75	1,246.0	1,587.5	5,314.0	5,180.6	133.45	39.822		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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													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		
0.0	0.0	47.0	47.0	0.0	0.1	25.85	5,566.4	2,696.6	6,185.2					
100.0	100.0	147.0	147.0	0.2	0.2	25.85	5,566.4	2,696.6	6,185.2	6,184.8	0.39	N/A		
200.0	200.0	247.0	247.0	0.3	0.4	25.85	5,566.4	2,696.6	6,185.2	6,184.5	0.73	8,417.732		
300.0	300.0	347.0	347.0	0.5	0.6	-33.24	5,566.4	2,696.6	6,184.5	6,183.4	1.08	5,704.980		
400.0	400.0	432.1	432.1	0.7	0.7	-33.27	5,566.5	2,696.5	6,182.4	6,180.9	1.41	4,388.146		
500.0	499.9	500.0	500.0	0.9	0.9	-33.31	5,567.5	2,695.3	6,179.2	6,177.5	1.71	3,619.622		
600.0	599.7	568.1	568.0	1.1	1.0	-33.38	5,569.5	2,692.8	6,175.1	6,173.1	2.02	3,062.887		
700.0	699.4	635.6	635.3	1.3	1.1	-33.48	5,572.4	2,689.0	6,170.1	6,167.8	2.34	2,640.275		
800.0	798.9	700.0	699.5	1.5	1.3	-33.60	5,576.1	2,684.3	6,164.2	6,161.5	2.67	2,312.758		
900.0	898.3	781.1	780.0	1.8	1.4	-33.77	5,582.0	2,676.9	6,157.3	6,154.2	3.05	2,017.572		
1,000.0	997.4	879.0	877.2	2.0	1.7	-33.99	5,589.2	2,667.7	6,149.1	6,145.6	3.49	1,759.670		
1,100.0	1,096.3	976.6	974.1	2.3	1.9	-34.22	5,596.4	2,658.6	6,139.6	6,135.6	3.95	1,553.621		
1,200.0	1,194.9	1,073.8	1,070.6	2.7	2.2	-34.48	5,603.6	2,649.4	6,128.6	6,124.2	4.42	1,385.710		
1,300.0	1,293.3	1,170.6	1,166.7	3.0	2.4	-34.75	5,610.8	2,640.3	6,116.4	6,111.5	4.91	1,246.455		
1,400.0	1,391.2	1,267.1	1,262.5	3.4	2.7	-35.03	5,618.0	2,631.3	6,102.8	6,097.4	5.40	1,129.145		
1,500.0	1,488.9	1,363.1	1,357.8	3.8	2.9	-35.34	5,625.1	2,622.3	6,087.8	6,081.9	5.92	1,028.956		
1,600.0	1,586.1	1,458.6	1,452.7	4.2	3.2	-35.66	5,632.2	2,613.3	6,071.6	6,065.1	6.44	942.358		
1,700.0	1,682.9	1,553.7	1,547.0	4.7	3.4	-36.01	5,639.2	2,604.3	6,054.0	6,047.0	6.98	866.721		
1,800.0	1,779.3	1,648.2	1,640.9	5.2	3.7	-36.37	5,646.2	2,595.5	6,035.2	6,027.7	7.54	800.052		
1,900.0	1,875.2	12,136.4	7,541.0	5.7	79.5	-3.56	1,249.6	2,037.5	6,012.5	5,952.3	60.20	99.873		
2,000.0	1,970.8	12,136.4	7,541.0	6.3	79.5	-3.56	1,249.6	2,037.5	5,912.7	5,852.4	60.38	97.923		
2,100.0	2,066.4	12,136.4	7,541.0	6.8	79.5	-3.56	1,249.6	2,037.5	5,813.0	5,752.4	60.56	95.985		
2,200.0	2,162.1	12,136.4	7,541.0	7.3	79.5	-3.56	1,249.6	2,037.5	5,713.2	5,652.5	60.74	94.059		
2,300.0	2,257.7	12,136.4	7,541.0	7.9	79.5	-3.56	1,249.6	2,037.5	5,613.5	5,552.6	60.92	92.145		
2,400.0	2,353.3	12,136.4	7,541.0	8.4	79.5	-3.56	1,249.6	2,037.5	5,513.7	5,452.6	61.10	90.242		
2,500.0	2,448.9	12,136.4	7,541.0	9.0	79.5	-3.56	1,249.6	2,037.5	5,414.0	5,352.7	61.28	88.350		
2,600.0	2,544.6	12,136.4	7,541.0	9.5	79.5	-3.56	1,249.6	2,037.5	5,314.3	5,252.8	61.46	86.469		
2,700.0	2,640.2	12,136.4	7,541.0	10.1	79.5	-3.56	1,249.6	2,037.5	5,214.6	5,153.0	61.64	84.600		
2,800.0	2,735.8	12,136.4	7,541.0	10.6	79.5	-3.56	1,249.6	2,037.5	5,114.9	5,053.1	61.82	82.741		
2,900.0	2,831.5	12,136.4	7,541.0	11.2	79.5	-3.56	1,249.6	2,037.5	5,015.2	4,953.2	62.00	80.894		
3,000.0	2,927.1	12,136.4	7,541.0	11.7	79.5	-3.56	1,249.6	2,037.5	4,915.5	4,853.4	62.18	79.057		
3,100.0	3,022.7	12,136.4	7,541.0	12.2	79.5	-3.56	1,249.6	2,037.5	4,815.9	4,753.5	62.36	77.232		
3,200.0	3,118.4	12,136.4	7,541.0	12.8	79.5	-3.56	1,249.6	2,037.5	4,716.3	4,653.7	62.54	75.417		
3,300.0	3,214.0	12,136.4	7,541.0	13.3	79.5	-3.56	1,249.6	2,037.5	4,616.6	4,553.9	62.72	73.612		
3,400.0	3,309.6	12,136.4	7,541.0	13.9	79.5	-3.56	1,249.6	2,037.5	4,517.0	4,454.1	62.89	71.819		
3,500.0	3,405.3	12,136.4	7,541.0	14.4	79.5	-3.56	1,249.6	2,037.5	4,417.4	4,354.4	63.07	70.035		
3,600.0	3,500.9	12,136.4	7,541.0	15.0	79.5	-3.56	1,249.6	2,037.5	4,317.9	4,254.6	63.25	68.262		
3,700.0	3,596.5	12,136.4	7,541.0	15.5	79.5	-3.56	1,249.6	2,037.5	4,218.3	4,154.9	63.43	66.500		
3,800.0	3,692.1	12,136.4	7,541.0	16.1	79.5	-3.56	1,249.6	2,037.5	4,118.8	4,055.2	63.61	64.748		
3,900.0	3,787.8	12,136.4	7,541.0	16.7	79.5	-3.56	1,249.6	2,037.5	4,019.3	3,955.5	63.79	63.006		
4,000.0	3,883.4	12,136.4	7,541.0	17.2	79.5	-3.56	1,249.6	2,037.5	3,919.8	3,855.8	63.97	61.274		
4,100.0	3,979.0	12,136.4	7,541.0	17.8	79.5	-3.56	1,249.6	2,037.5	3,820.3	3,756.2	64.15	59.552		
4,200.0	4,074.7	12,136.4	7,541.0	18.3	79.5	-3.56	1,249.6	2,037.5	3,720.9	3,656.6	64.33	57.841		
4,300.0	4,170.3	12,136.4	7,541.0	18.9	79.5	-3.56	1,249.6	2,037.5	3,621.5	3,557.0	64.51	56.139		
4,400.0	4,265.9	12,136.4	7,541.0	19.4	79.5	-3.56	1,249.6	2,037.5	3,522.2	3,457.5	64.69	54.447		
4,500.0	4,361.6	12,136.4	7,541.0	20.0	79.5	-3.56	1,249.6	2,037.5	3,422.9	3,358.0	64.87	52.766		
4,600.0	4,457.2	12,136.4	7,541.0	20.5	79.5	-3.56	1,249.6	2,037.5	3,323.6	3,258.5	65.05	51.094		
4,700.0	4,552.8	12,136.4	7,541.0	21.1	79.5	-3.56	1,249.6	2,037.5	3,224.3	3,159.1	65.23	49.432		
4,800.0	4,648.5	12,136.4	7,541.0	21.6	79.5	-3.56	1,249.6	2,037.5	3,125.2	3,059.7	65.41	47.780		
4,900.0	4,744.1	12,136.4	7,541.0	22.2	79.5	-3.56	1,249.6	2,037.5	3,026.0	2,960.4	65.59	46.138		
5,000.0	4,839.7	12,136.4	7,541.0	22.7	79.5	-3.56	1,249.6	2,037.5	2,926.9	2,861.2	65.77	44.505		
5,100.0	4,935.3	12,136.4	7,541.0	23.3	79.5	-3.56	1,249.6	2,037.5	2,827.9	2,762.0	65.95	42.883		

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 1G-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 1G-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													Offset Site Error:	0.0 ft
Survey Program: O-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		
5,204.0	5,034.8	12,136.4	7,541.0	23.9	79.5	-3.56	1,249.6	2,037.5	2,725.0	2,658.9	66.13	41.206		
5,300.0	5,126.8	12,136.4	7,541.0	24.4	79.5	-3.21	1,249.6	2,037.5	2,630.3	2,563.4	66.87	39.332		
5,400.0	5,223.2	12,136.4	7,541.0	24.9	79.5	-2.92	1,249.6	2,037.5	2,532.0	2,464.4	67.56	37.475		
5,500.0	5,320.0	12,136.4	7,541.0	25.3	79.5	-2.69	1,249.6	2,037.5	2,434.1	2,365.9	68.19	35.696		
5,600.0	5,417.2	12,136.4	7,541.0	25.8	79.5	-2.50	1,249.6	2,037.5	2,336.9	2,268.1	68.76	33.984		
5,700.0	5,514.8	12,136.4	7,541.0	26.2	79.5	-2.34	1,249.6	2,037.5	2,240.3	2,171.0	69.29	32.332		
5,800.0	5,612.8	12,136.4	7,541.0	26.5	79.5	-2.21	1,249.6	2,037.5	2,144.6	2,074.8	69.78	30.733		
5,900.0	5,711.1	12,136.4	7,541.0	26.9	79.5	-2.10	1,249.6	2,037.5	2,049.8	1,979.6	70.23	29.185		
6,000.0	5,809.7	12,136.4	7,541.0	27.2	79.5	-2.00	1,249.6	2,037.5	1,956.1	1,885.5	70.65	27.686		
6,100.0	5,908.6	12,136.4	7,541.0	27.5	79.5	-1.92	1,249.6	2,037.5	1,863.8	1,792.8	71.05	26.234		
6,200.0	6,007.7	12,136.4	7,541.0	27.8	79.5	-1.85	1,249.6	2,037.5	1,773.1	1,701.7	71.41	24.830		
6,300.0	6,107.1	12,136.4	7,541.0	28.0	79.5	-1.79	1,249.6	2,037.5	1,684.2	1,612.4	71.74	23.475		
6,400.0	6,206.6	12,136.4	7,541.0	28.2	79.5	-1.73	1,249.6	2,037.5	1,597.5	1,525.4	72.05	22.171		
6,500.0	6,306.3	12,136.4	7,541.0	28.4	79.5	-1.69	1,249.6	2,037.5	1,513.4	1,441.0	72.34	20.921		
6,600.0	6,406.1	12,136.4	7,541.0	28.6	79.5	-1.65	1,249.6	2,037.5	1,432.4	1,359.8	72.60	19.730		
6,700.0	6,506.0	12,136.4	7,541.0	28.7	79.5	-1.61	1,249.6	2,037.5	1,355.0	1,282.2	72.84	18.604		
6,800.0	6,606.0	12,136.4	7,541.0	28.8	79.5	-1.58	1,249.6	2,037.5	1,282.0	1,209.0	73.05	17.550		
6,904.0	6,710.0	12,136.4	7,541.0	28.9	79.5	57.52	1,249.6	2,037.5	1,211.6	1,138.3	73.24	16.542		
6,918.8	6,724.8	12,136.4	7,541.0	28.9	79.5	57.52	1,249.6	2,037.5	1,202.0	1,128.8	73.27	16.406		
6,950.0	6,756.0	12,136.4	7,541.0	28.9	79.5	-124.14	1,249.6	2,037.5	1,182.6	1,110.6	71.97	16.431		
7,000.0	6,805.8	12,136.4	7,541.0	28.9	79.5	-126.44	1,249.6	2,037.5	1,153.9	1,083.7	70.21	16.434		
7,050.0	6,855.2	12,136.4	7,541.0	28.8	79.5	-128.32	1,249.6	2,037.5	1,128.4	1,059.6	68.80	16.401		
7,100.0	6,904.0	12,136.4	7,541.0	28.8	79.5	-129.83	1,249.6	2,037.5	1,106.5	1,038.8	67.69	16.346		
7,150.0	6,952.0	12,136.4	7,541.0	28.7	79.5	-131.00	1,249.6	2,037.5	1,088.6	1,021.7	66.86	16.282		
7,200.0	6,998.8	12,136.4	7,541.0	28.6	79.5	-131.86	1,249.6	2,037.5	1,074.9	1,008.6	66.27	16.219		
7,250.0	7,044.3	12,136.4	7,541.0	28.5	79.5	-132.41	1,249.6	2,037.5	1,065.7	999.8	65.93	16.165		
7,300.0	7,088.2	12,136.4	7,541.0	28.3	79.5	-132.69	1,249.6	2,037.5	1,061.1	995.3	65.81	16.124		
7,323.8	7,108.5	12,136.4	7,541.0	28.2	79.5	-132.72	1,249.6	2,037.5	1,060.6	994.7	65.84	16.108 CC, ES		
7,350.0	7,130.4	12,136.4	7,541.0	28.2	79.5	-132.68	1,249.6	2,037.5	1,061.2	995.3	65.93	16.096		
7,400.0	7,170.6	12,136.4	7,541.0	28.0	79.5	-132.39	1,249.6	2,037.5	1,066.0	999.7	66.30	16.078		
7,450.0	7,208.6	12,136.4	7,541.0	27.8	79.5	-131.82	1,249.6	2,037.5	1,075.5	1,008.5	66.94	16.065		
7,500.0	7,244.3	12,136.4	7,541.0	27.7	79.5	-130.95	1,249.6	2,037.5	1,089.4	1,021.5	67.88	16.048		
7,550.0	7,277.4	12,136.4	7,541.0	27.5	79.5	-129.77	1,249.6	2,037.5	1,107.5	1,038.3	69.14	16.018		
7,600.0	7,307.8	12,136.4	7,541.0	27.3	79.5	-128.24	1,249.6	2,037.5	1,129.5	1,058.8	70.74	15.966		
7,650.0	7,335.4	12,136.4	7,541.0	27.2	79.5	-126.34	1,249.6	2,037.5	1,155.2	1,082.5	72.71	15.887		
7,700.0	7,360.0	12,136.4	7,541.0	27.0	79.5	-124.02	1,249.6	2,037.5	1,184.1	1,109.0	75.04	15.779		
7,750.0	7,381.6	12,136.4	7,541.0	26.9	79.5	-121.24	1,249.6	2,037.5	1,215.9	1,138.2	77.70	15.649		
7,800.0	7,399.9	12,136.4	7,541.0	26.8	79.5	-117.96	1,249.6	2,037.5	1,250.1	1,169.5	80.61	15.509		
7,850.0	7,414.9	12,136.4	7,541.0	26.7	79.5	-114.13	1,249.6	2,037.5	1,286.6	1,202.9	83.65	15.380		
7,900.0	7,426.6	12,136.4	7,541.0	26.6	79.5	-109.72	1,249.6	2,037.5	1,324.8	1,238.2	86.64	15.290		
7,950.0	7,434.9	12,136.4	7,541.0	26.5	79.5	-104.72	1,249.6	2,037.5	1,364.6	1,275.2	89.34	15.274 SF		
8,000.0	7,439.7	12,136.4	7,541.0	26.5	79.5	-99.16	1,249.6	2,037.5	1,405.4	1,314.0	91.45	15.368		
8,043.8	7,441.0	12,136.4	7,541.0	26.5	79.5	-93.89	1,249.6	2,037.5	1,442.0	1,349.4	92.60	15.572		
8,100.0	7,441.0	12,136.4	7,541.0	26.6	79.5	-93.89	1,249.6	2,037.5	1,489.5	1,396.8	92.72	16.065		
8,200.0	7,441.0	12,136.4	7,541.0	26.7	79.5	-93.89	1,249.6	2,037.5	1,575.6	1,482.5	93.08	16.926		
8,300.0	7,441.0	12,136.4	7,541.0	27.0	79.5	-93.89	1,249.6	2,037.5	1,663.2	1,569.5	93.65	17.760		
8,400.0	7,441.0	12,136.4	7,541.0	27.4	79.5	-93.89	1,249.6	2,037.5	1,752.1	1,657.7	94.38	18.564		
8,500.0	7,441.0	12,136.4	7,541.0	27.8	79.5	-93.89	1,249.6	2,037.5	1,842.1	1,746.9	95.27	19.337		
8,600.0	7,441.0	12,136.4	7,541.0	28.4	79.5	-93.89	1,249.6	2,037.5	1,933.2	1,836.9	96.28	20.079		
8,700.0	7,441.0	12,136.4	7,541.0	29.1	79.5	-93.89	1,249.6	2,037.5	2,025.0	1,927.6	97.40	20.791		
8,800.0	7,441.0	12,136.4	7,541.0	29.9	79.5	-93.89	1,249.6	2,037.5	2,117.7	2,019.0	98.61	21.475		
8,900.0	7,441.0	12,136.4	7,541.0	30.8	79.5	-93.89	1,249.6	2,037.5	2,210.9	2,111.0	99.90	22.132		

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 1G-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 1G-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													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	7,441.0	12,136.4	7,541.0	31.7	79.5	-93.89	1,249.6	2,037.5	2,304.7	2,203.5	101.25	22.764		
9,100.0	7,441.0	12,136.4	7,541.0	32.7	79.5	-93.89	1,249.6	2,037.5	2,399.1	2,296.4	102.65	23.372		
9,200.0	7,441.0	12,136.4	7,541.0	33.8	79.5	-93.89	1,249.6	2,037.5	2,493.8	2,389.7	104.09	23.959		
9,300.0	7,441.0	12,136.4	7,541.0	34.9	79.5	-93.89	1,249.6	2,037.5	2,589.0	2,483.4	105.57	24.524		
9,400.0	7,441.0	12,136.4	7,541.0	36.1	79.5	-93.89	1,249.6	2,037.5	2,684.5	2,577.4	107.08	25.071		
9,500.0	7,441.0	12,136.4	7,541.0	37.3	79.5	-93.89	1,249.6	2,037.5	2,780.3	2,671.7	108.61	25.598		
9,600.0	7,441.0	12,136.4	7,541.0	38.6	79.5	-93.89	1,249.6	2,037.5	2,876.4	2,766.3	110.17	26.109		
9,700.0	7,441.0	12,136.4	7,541.0	39.9	79.5	-93.89	1,249.6	2,037.5	2,972.8	2,861.1	111.75	26.603		
9,800.0	7,441.0	12,136.4	7,541.0	41.2	79.5	-93.89	1,249.6	2,037.5	3,069.4	2,956.1	113.34	27.081		
9,900.0	7,441.0	12,136.4	7,541.0	42.6	79.5	-93.89	1,249.6	2,037.5	3,166.2	3,051.3	114.95	27.545		
10,000.0	7,441.0	12,136.4	7,541.0	44.0	79.5	-93.89	1,249.6	2,037.5	3,263.2	3,146.6	116.57	27.994		
10,100.0	7,441.0	12,136.4	7,541.0	45.4	79.5	-93.89	1,249.6	2,037.5	3,360.4	3,242.2	118.20	28.430		
10,200.0	7,441.0	12,136.4	7,541.0	46.9	79.5	-93.89	1,249.6	2,037.5	3,457.7	3,337.9	119.84	28.853		
10,300.0	7,441.0	12,136.4	7,541.0	48.4	79.5	-93.89	1,249.6	2,037.5	3,555.2	3,433.7	121.49	29.263		
10,400.0	7,441.0	12,136.4	7,541.0	49.8	79.5	-93.89	1,249.6	2,037.5	3,652.8	3,529.7	123.15	29.662		
10,500.0	7,441.0	12,136.4	7,541.0	51.3	79.5	-93.89	1,249.6	2,037.5	3,750.6	3,625.8	124.81	30.050		
10,600.0	7,441.0	12,136.4	7,541.0	52.9	79.5	-93.89	1,249.6	2,037.5	3,848.5	3,722.0	126.48	30.427		
10,700.0	7,441.0	12,136.4	7,541.0	54.4	79.5	-93.89	1,249.6	2,037.5	3,946.4	3,818.3	128.16	30.793		
10,800.0	7,441.0	12,136.4	7,541.0	55.9	79.5	-93.89	1,249.6	2,037.5	4,044.5	3,914.7	129.84	31.150		
10,900.0	7,441.0	12,136.4	7,541.0	57.5	79.5	-93.89	1,249.6	2,037.5	4,142.7	4,011.1	131.52	31.497		
11,000.0	7,441.0	12,136.4	7,541.0	59.1	79.5	-93.89	1,249.6	2,037.5	4,240.9	4,107.7	133.21	31.835		
11,100.0	7,441.0	12,136.4	7,541.0	60.7	79.5	-93.89	1,249.6	2,037.5	4,339.2	4,204.3	134.91	32.165		
11,200.0	7,441.0	12,136.4	7,541.0	62.2	79.5	-93.89	1,249.6	2,037.5	4,437.6	4,301.0	136.60	32.486		
11,300.0	7,441.0	12,136.4	7,541.0	63.8	79.5	-93.89	1,249.6	2,037.5	4,536.1	4,397.8	138.30	32.799		
11,400.0	7,441.0	12,136.4	7,541.0	65.4	79.5	-93.89	1,249.6	2,037.5	4,634.7	4,494.7	140.00	33.104		
11,500.0	7,441.0	12,136.4	7,541.0	67.1	79.5	-93.89	1,249.6	2,037.5	4,733.3	4,591.5	141.71	33.401		
11,600.0	7,441.0	12,136.4	7,541.0	68.7	79.5	-93.89	1,249.6	2,037.5	4,831.9	4,688.5	143.42	33.691		
11,700.0	7,441.0	12,136.4	7,541.0	70.3	79.5	-93.89	1,249.6	2,037.5	4,930.6	4,785.5	145.13	33.975		
11,800.0	7,441.0	12,136.4	7,541.0	71.9	79.5	-93.89	1,249.6	2,037.5	5,029.4	4,882.6	146.84	34.251		
11,900.0	7,441.0	12,136.4	7,541.0	73.6	79.5	-93.89	1,249.6	2,037.5	5,128.2	4,979.6	148.55	34.521		
12,000.0	7,441.0	12,136.4	7,541.0	75.2	79.5	-93.89	1,249.6	2,037.5	5,227.1	5,076.8	150.27	34.785		
12,100.0	7,441.0	12,136.4	7,541.0	76.9	79.5	-93.89	1,249.6	2,037.5	5,326.0	5,174.0	151.98	35.043		
12,135.7	7,441.0	12,136.4	7,541.0	77.5	79.5	-93.89	1,249.6	2,037.5	5,361.2	5,208.6	152.60	35.134		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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) - Cannon 13N-11HZ - HZ - HZ													Offset Site Error:	0.0 ft
Survey Program: 17-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	84.81	179.0	1,971.9	5,388.9					
100.0	100.0	0.0	0.0	0.2	0.0	84.81	179.0	1,971.9	5,296.1	5,295.9	0.15	N/A		
200.0	200.0	0.0	0.0	0.3	0.0	84.81	179.0	1,971.9	5,203.4	5,203.1	0.33	N/A		
300.0	300.0	0.0	0.0	0.5	0.0	26.82	179.0	1,971.9	5,110.8	5,110.3	0.50	N/A		
400.0	400.0	0.0	0.0	0.7	0.0	27.98	179.0	1,971.9	5,017.9	5,017.2	0.68	7,413.238		
500.0	499.9	0.0	0.0	0.9	0.0	29.22	179.0	1,971.9	4,924.6	4,923.8	0.85	5,762.732		
600.0	599.7	0.0	0.0	1.1	0.0	30.53	179.0	1,971.9	4,831.1	4,830.1	1.04	4,663.988		
700.0	699.4	0.0	0.0	1.3	0.0	31.94	179.0	1,971.9	4,737.3	4,736.1	1.22	3,874.826		
800.0	798.9	0.0	0.0	1.5	0.0	33.43	179.0	1,971.9	4,643.2	4,641.8	1.42	3,276.386		
900.0	898.3	0.0	0.0	1.8	0.0	35.03	179.0	1,971.9	4,548.9	4,547.3	1.62	2,803.707		
1,000.0	997.4	0.0	0.0	2.0	0.0	36.73	179.0	1,971.9	4,454.4	4,452.5	1.84	2,418.517		
1,100.0	1,096.3	0.0	0.0	2.3	0.0	38.54	179.0	1,971.9	4,359.6	4,357.6	2.08	2,097.038		
1,200.0	1,194.9	0.0	0.0	2.7	0.0	40.46	179.0	1,971.9	4,264.7	4,262.3	2.34	1,823.924		
1,300.0	1,293.3	0.0	0.0	3.0	0.0	42.51	179.0	1,971.9	4,169.5	4,166.9	2.62	1,588.974		
1,400.0	1,391.2	0.0	0.0	3.4	0.0	44.68	179.0	1,971.9	4,074.2	4,071.3	2.94	1,385.228		
1,500.0	1,488.9	0.0	0.0	3.8	0.0	46.98	179.0	1,971.9	3,978.8	3,975.5	3.29	1,207.783		
1,600.0	1,586.1	0.0	0.0	4.2	0.0	49.41	179.0	1,971.9	3,883.2	3,879.5	3.69	1,053.032		
1,700.0	1,682.9	0.0	0.0	4.7	0.0	51.96	179.0	1,971.9	3,787.5	3,783.3	4.12	918.173		
1,800.0	1,779.3	0.0	0.0	5.2	0.0	54.64	179.0	1,971.9	3,691.7	3,687.1	4.61	800.892		
1,900.0	1,875.2	0.0	0.0	5.7	0.0	57.43	179.0	1,971.9	3,595.8	3,590.7	5.14	699.179		
2,000.0	1,970.8	0.0	0.0	6.3	0.0	57.43	179.0	1,971.9	3,500.0	3,494.4	5.60	625.333		
2,100.0	2,066.4	0.0	0.0	6.8	0.0	57.43	179.0	1,971.9	3,404.5	3,398.4	6.05	562.290		
2,200.0	2,162.1	0.0	0.0	7.3	0.0	57.43	179.0	1,971.9	3,309.2	3,302.7	6.52	507.934		
2,300.0	2,257.7	0.0	0.0	7.9	0.0	57.43	179.0	1,971.9	3,214.2	3,207.3	6.98	460.650		
2,400.0	2,353.3	0.0	0.0	8.4	0.0	57.43	179.0	1,971.9	3,119.6	3,112.1	7.44	419.187		
2,500.0	2,448.9	0.0	0.0	9.0	0.0	57.43	179.0	1,971.9	3,025.2	3,017.3	7.91	382.567		
2,600.0	2,544.6	0.0	0.0	9.5	0.0	57.43	179.0	1,971.9	2,931.3	2,922.9	8.37	350.014		
2,700.0	2,640.2	0.0	0.0	10.1	0.0	57.43	179.0	1,971.9	2,837.8	2,828.9	8.84	320.910		
2,800.0	2,735.8	0.0	0.0	10.6	0.0	57.43	179.0	1,971.9	2,744.7	2,735.4	9.31	294.753		
2,900.0	2,831.5	0.0	0.0	11.2	0.0	57.43	179.0	1,971.9	2,652.1	2,642.3	9.78	271.136		
3,000.0	2,927.1	0.0	0.0	11.7	0.0	57.43	179.0	1,971.9	2,560.1	2,549.8	10.25	249.721		
3,100.0	3,022.7	0.0	0.0	12.2	0.0	57.43	179.0	1,971.9	2,468.7	2,458.0	10.72	230.231		
3,200.0	3,118.4	0.0	0.0	12.8	0.0	57.43	179.0	1,971.9	2,378.0	2,366.8	11.19	212.433		
3,300.0	3,214.0	0.0	0.0	13.3	0.0	57.43	179.0	1,971.9	2,288.1	2,276.4	11.67	196.133		
3,400.0	3,309.6	0.0	0.0	13.9	0.0	57.43	179.0	1,971.9	2,199.0	2,186.9	12.14	181.165		
3,500.0	3,405.3	0.0	0.0	14.4	0.0	57.43	179.0	1,971.9	2,110.9	2,098.3	12.61	167.393		
3,600.0	3,500.9	0.0	0.0	15.0	0.0	57.43	179.0	1,971.9	2,023.9	2,010.9	13.08	154.696		
3,700.0	3,596.5	0.0	0.0	15.5	0.0	57.43	179.0	1,971.9	1,938.2	1,924.7	13.56	142.974		
3,800.0	3,692.1	0.0	0.0	16.1	0.0	57.43	179.0	1,971.9	1,854.0	1,839.9	14.03	132.143		
3,900.0	3,787.8	0.0	0.0	16.7	0.0	57.43	179.0	1,971.9	1,771.3	1,756.8	14.50	122.130		
4,000.0	3,883.4	0.0	0.0	17.2	0.0	57.43	179.0	1,971.9	1,690.5	1,675.6	14.98	112.874		
4,100.0	3,979.0	0.0	0.0	17.8	0.0	57.43	179.0	1,971.9	1,611.9	1,596.5	15.45	104.324		
4,200.0	4,074.7	0.0	0.0	18.3	0.0	57.43	179.0	1,971.9	1,535.8	1,519.9	15.93	96.439		
4,300.0	4,170.3	0.0	0.0	18.9	0.0	57.43	179.0	1,971.9	1,462.6	1,446.2	16.40	89.184		
4,400.0	4,265.9	0.0	0.0	19.4	0.0	57.43	179.0	1,971.9	1,392.7	1,375.8	16.87	82.533		
4,500.0	4,361.6	0.0	0.0	20.0	0.0	57.43	179.0	1,971.9	1,326.6	1,309.3	17.35	76.468		
4,600.0	4,457.2	0.0	0.0	20.5	0.0	57.43	179.0	1,971.9	1,265.0	1,247.2	17.82	70.977		
4,700.0	4,552.8	0.0	0.0	21.1	0.0	57.43	179.0	1,971.9	1,208.6	1,190.3	18.30	66.051		
4,800.0	4,648.5	0.0	0.0	21.6	0.0	57.43	179.0	1,971.9	1,158.0	1,139.3	18.77	61.688		
4,900.0	4,744.1	0.0	0.0	22.2	0.0	57.43	179.0	1,971.9	1,114.2	1,094.9	19.25	57.888		
5,000.0	4,839.7	0.0	0.0	22.7	0.0	57.43	179.0	1,971.9	1,077.9	1,058.2	19.72	54.652		
5,100.0	4,935.3	0.0	0.0	23.3	0.0	57.43	179.0	1,971.9	1,049.9	1,029.7	20.20	51.980		

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 1G-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 1G-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) - Cannon 13N-11HZ - HZ - HZ													Offset Site Error: 0.0 ft			
Survey Program: 17-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				
5,204.0	5,034.8	22.6	22.6	23.9	0.0	57.75	179.0	1,971.9	1,030.0	1,009.2	20.79	49.546				
5,300.0	5,126.8	112.4	112.4	24.4	0.2	58.84	179.0	1,972.1	1,015.3	993.8	21.58	47.040				
5,400.0	5,223.2	211.8	211.8	24.9	0.4	60.01	179.4	1,972.5	1,001.5	979.1	22.41	44.697				
5,500.0	5,320.0	314.5	314.5	25.3	0.6	61.11	180.9	1,972.9	988.5	965.3	23.20	42.605				
5,600.0	5,417.2	424.2	424.1	25.8	0.8	62.10	185.0	1,973.7	975.9	951.9	23.97	40.709				
5,700.0	5,514.8	536.1	535.8	26.2	1.0	62.90	192.0	1,974.2	962.8	938.1	24.70	38.980				
5,800.0	5,612.8	638.5	637.9	26.5	1.2	63.44	200.3	1,974.8	949.9	924.6	25.36	37.463				
5,900.0	5,711.1	738.0	736.8	26.9	1.4	63.79	209.9	1,976.2	937.7	911.7	25.96	36.122				
6,000.0	5,809.7	842.8	841.1	27.2	1.7	64.06	220.5	1,977.6	926.0	899.5	26.54	34.896				
6,100.0	5,908.6	955.1	952.9	27.5	1.9	64.32	231.4	1,977.6	914.2	887.1	27.10	33.738				
6,200.0	6,007.7	1,058.1	1,055.4	27.8	2.2	64.49	241.6	1,976.3	902.1	874.5	27.60	32.688				
6,300.0	6,107.1	1,182.6	1,179.1	28.0	2.5	64.59	255.2	1,972.7	888.6	860.5	28.11	31.612				
6,400.0	6,206.6	1,275.5	1,271.2	28.2	2.8	64.47	266.7	1,969.8	875.1	846.6	28.49	30.711				
6,500.0	6,306.3	1,363.3	1,358.4	28.4	3.0	64.33	276.2	1,967.8	863.7	834.9	28.84	29.954				
6,600.0	6,406.1	1,460.4	1,454.9	28.6	3.2	64.05	286.9	1,966.3	853.8	824.6	29.16	29.280				
6,700.0	6,506.0	1,562.2	1,556.1	28.7	3.5	63.62	298.5	1,965.2	844.7	815.2	29.45	28.683				
6,800.0	6,606.0	1,660.9	1,654.1	28.8	3.8	63.09	310.1	1,963.9	836.1	806.4	29.68	28.167				
6,904.0	6,710.0	1,773.0	1,765.5	28.9	4.0	121.51	322.5	1,961.6	827.7	797.8	29.90	27.679				
6,918.8	6,724.8	1,788.3	1,780.7	28.9	4.1	121.42	324.3	1,961.2	826.5	796.5	29.93	27.612				
6,950.0	6,756.0	1,814.8	1,807.0	28.9	4.1	-58.96	327.1	1,960.4	823.6	793.7	29.92	27.525				
7,000.0	6,805.8	1,862.0	1,854.0	28.9	4.3	-59.81	331.6	1,959.2	818.1	788.3	29.79	27.465 SF				
7,050.0	6,855.2	1,906.3	1,898.1	28.8	4.4	-60.91	335.5	1,958.0	811.0	781.5	29.50	27.494				
7,100.0	6,904.0	1,955.4	1,947.0	28.8	4.5	-62.40	339.6	1,956.5	802.3	773.3	29.06	27.613				
7,150.0	6,952.0	2,001.3	1,992.8	28.7	4.6	-64.17	343.3	1,955.1	792.3	763.8	28.48	27.823				
7,200.0	6,998.8	2,045.8	2,037.1	28.6	4.7	-66.24	346.9	1,953.6	781.1	753.4	27.77	28.128				
7,250.0	7,044.3	2,088.1	2,079.2	28.5	4.8	-68.55	350.3	1,952.3	769.2	742.2	26.96	28.528				
7,300.0	7,088.2	2,128.9	2,119.8	28.3	4.9	-71.09	353.5	1,951.1	756.7	730.7	26.08	29.021				
7,350.0	7,130.4	2,168.8	2,159.7	28.2	4.9	-73.86	356.5	1,949.9	744.1	719.0	25.13	29.605				
7,400.0	7,170.6	2,206.8	2,197.5	28.0	5.0	-76.75	359.3	1,948.8	731.7	707.5	24.19	30.253				
7,450.0	7,208.6	2,238.8	2,229.4	27.8	5.1	-79.47	361.6	1,947.9	719.9	696.6	23.30	30.899				
7,500.0	7,244.3	2,268.0	2,258.6	27.7	5.2	-82.10	363.8	1,947.2	709.3	686.8	22.48	31.553				
7,550.0	7,277.4	2,298.0	2,288.4	27.5	5.2	-84.78	366.2	1,946.7	700.4	678.7	21.73	32.230				
7,600.0	7,307.8	2,320.4	2,310.7	27.3	5.3	-86.89	368.0	1,946.5	693.6	672.5	21.13	32.824				
7,650.0	7,335.4	2,343.7	2,334.0	27.2	5.3	-88.93	369.8	1,946.2	689.3	668.7	20.63	33.420				
7,700.0	7,360.0	2,364.2	2,354.4	27.0	5.4	-90.60	371.4	1,946.0	687.8	667.5	20.24	33.988 ES				
7,700.1	7,360.1	2,364.3	2,354.5	27.0	5.4	-90.60	371.4	1,946.0	687.8	667.5	20.24	33.989 CC				
7,750.0	7,381.6	2,381.8	2,371.9	26.9	5.4	-91.83	372.7	1,945.8	689.4	669.4	19.95	34.547				
7,800.0	7,399.9	2,396.5	2,386.6	26.8	5.4	-92.60	373.8	1,945.7	694.3	674.5	19.77	35.125				
7,850.0	7,414.9	2,408.0	2,398.1	26.7	5.5	-92.85	374.6	1,945.6	702.7	683.0	19.66	35.744				
7,900.0	7,426.6	2,416.1	2,406.2	26.6	5.5	-92.55	375.2	1,945.5	714.4	694.8	19.62	36.422				
7,950.0	7,434.9	2,420.9	2,410.9	26.5	5.5	-91.68	375.5	1,945.5	729.6	709.9	19.63	37.172				
8,000.0	7,439.7	2,422.1	2,412.2	26.5	5.5	-90.21	375.6	1,945.5	747.8	728.1	19.68	37.998				
8,043.8	7,441.0	2,420.3	2,410.4	26.5	5.5	-88.45	375.5	1,945.5	766.1	746.4	19.76	38.778				
8,100.0	7,441.0	2,416.3	2,406.4	26.6	5.5	-88.12	375.2	1,945.5	792.5	772.7	19.87	39.889				
8,200.0	7,441.0	2,409.0	2,399.1	26.7	5.5	-87.51	374.7	1,945.6	846.7	826.4	20.23	41.860				
8,300.0	7,441.0	2,401.7	2,391.8	27.0	5.5	-86.90	374.2	1,945.7	908.6	887.8	20.77	43.735				
8,400.0	7,441.0	2,394.2	2,384.4	27.4	5.4	-86.29	373.6	1,945.7	976.7	955.2	21.49	45.447				
8,500.0	7,441.0	2,386.7	2,376.8	27.8	5.4	-85.66	373.1	1,945.8	1,050.0	1,027.6	22.35	46.968				
8,600.0	7,441.0	2,379.0	2,369.1	28.4	5.4	-85.02	372.5	1,945.8	1,127.3	1,103.9	23.34	48.297				
8,700.0	7,441.0	2,371.1	2,361.3	29.1	5.4	-84.38	371.9	1,945.9	1,207.9	1,183.4	24.43	49.447				
8,800.0	7,441.0	2,363.0	2,353.3	29.9	5.4	-83.72	371.3	1,946.0	1,291.1	1,265.5	25.60	50.439				
8,900.0	7,441.0	2,354.8	2,345.1	30.8	5.4	-83.04	370.7	1,946.1	1,376.6	1,349.7	26.84	51.297				

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 1G-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 1G-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) - Cannon 13N-11HZ - HZ - HZ													Offset Site Error:	0.0 ft
Survey Program: 17-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	7,441.0	2,346.4	2,336.7	31.7	5.3	-82.36	370.1	1,946.2	1,463.8	1,435.7	28.13	52.045		
9,100.0	7,441.0	2,337.9	2,328.2	32.7	5.3	-81.66	369.4	1,946.3	1,552.6	1,523.1	29.46	52.701		
9,200.0	7,441.0	2,329.1	2,319.5	33.8	5.3	-80.96	368.7	1,946.4	1,642.6	1,611.7	30.83	53.285		
9,300.0	7,441.0	2,320.2	2,310.6	34.9	5.3	-80.24	368.0	1,946.5	1,733.6	1,701.4	32.22	53.811		
9,400.0	7,441.0	2,311.1	2,301.5	36.1	5.3	-79.50	367.3	1,946.6	1,825.6	1,791.9	33.63	54.290		
9,500.0	7,441.0	2,301.7	2,292.2	37.3	5.2	-78.76	366.5	1,946.7	1,918.3	1,883.2	35.05	54.733		
9,600.0	7,441.0	2,298.0	2,288.4	38.6	5.2	-78.46	366.2	1,946.7	2,011.7	1,975.1	36.53	55.063		
9,700.0	7,441.0	2,298.0	2,288.4	39.9	5.2	-78.46	366.2	1,946.7	2,105.7	2,067.6	38.07	55.305		
9,800.0	7,441.0	2,282.7	2,273.2	41.2	5.2	-77.25	365.0	1,946.9	2,200.1	2,160.7	39.46	55.758		
9,900.0	7,441.0	2,277.0	2,267.5	42.6	5.2	-76.80	364.5	1,947.0	2,295.0	2,254.1	40.95	56.042		
10,000.0	7,441.0	2,271.4	2,261.9	44.0	5.2	-76.37	364.1	1,947.1	2,390.4	2,347.9	42.45	56.309		
10,100.0	7,441.0	2,265.9	2,256.4	45.4	5.2	-75.94	363.7	1,947.2	2,486.0	2,442.1	43.95	56.559		
10,200.0	7,441.0	2,260.4	2,251.0	46.9	5.2	-75.52	363.2	1,947.4	2,582.0	2,536.5	45.46	56.795		
10,300.0	7,441.0	2,255.1	2,245.7	48.4	5.1	-75.10	362.8	1,947.5	2,678.3	2,631.3	46.97	57.020		
10,400.0	7,441.0	2,249.9	2,240.4	49.8	5.1	-74.70	362.4	1,947.6	2,774.8	2,726.3	48.48	57.234		
10,500.0	7,441.0	2,244.7	2,235.3	51.3	5.1	-74.31	362.0	1,947.7	2,871.5	2,821.5	49.99	57.439		
10,600.0	7,441.0	2,239.6	2,230.2	52.9	5.1	-73.92	361.6	1,947.8	2,968.5	2,917.0	51.50	57.637		
10,700.0	7,441.0	2,234.6	2,225.2	54.4	5.1	-73.54	361.3	1,948.0	3,065.6	3,012.6	53.01	57.828		
10,800.0	7,441.0	2,229.7	2,220.3	55.9	5.1	-73.17	360.9	1,948.1	3,162.9	3,108.3	54.52	58.012		
10,900.0	7,441.0	2,224.8	2,215.5	57.5	5.1	-72.80	360.6	1,948.2	3,260.3	3,204.3	56.03	58.192		
11,000.0	7,441.0	2,209.0	2,199.7	59.1	5.0	-71.63	359.4	1,948.7	3,357.9	3,300.6	57.28	58.627		
11,100.0	7,441.0	2,209.0	2,199.7	60.7	5.0	-71.63	359.4	1,948.7	3,455.6	3,396.7	58.88	58.687		
11,200.0	7,441.0	2,209.0	2,199.7	62.2	5.0	-71.63	359.4	1,948.7	3,553.4	3,492.9	60.49	58.743		
11,300.0	7,441.0	2,202.5	2,193.2	63.8	5.0	-71.15	358.9	1,948.9	3,651.4	3,589.4	61.94	58.954		
11,400.0	7,441.0	2,192.1	2,182.8	65.4	5.0	-70.39	358.2	1,949.2	3,749.4	3,686.1	63.27	59.265		
11,500.0	7,441.0	2,181.4	2,172.2	67.1	5.0	-69.62	357.4	1,949.6	3,847.5	3,782.9	64.57	59.589		
11,600.0	7,441.0	2,170.5	2,161.3	68.7	5.0	-68.84	356.6	1,949.9	3,945.7	3,879.8	65.84	59.927		
11,700.0	7,441.0	2,159.3	2,150.2	70.3	4.9	-68.05	355.8	1,950.2	4,043.9	3,976.8	67.09	60.280		
11,800.0	7,441.0	2,147.9	2,138.8	71.9	4.9	-67.26	354.9	1,950.6	4,142.3	4,074.0	68.30	60.649		
11,900.0	7,441.0	2,136.2	2,127.1	73.6	4.9	-66.45	354.0	1,950.9	4,240.6	4,171.1	69.48	61.035		
12,000.0	7,441.0	2,124.2	2,115.1	75.2	4.9	-65.63	353.1	1,951.3	4,339.0	4,268.4	70.62	61.439		
12,100.0	7,441.0	2,115.4	2,106.4	76.9	4.8	-65.05	352.4	1,951.5	4,437.5	4,365.7	71.86	61.749		
12,135.7	7,441.0	2,112.4	2,103.4	77.5	4.8	-64.85	352.2	1,951.6	4,472.7	4,400.3	72.31	61.857		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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) - Cannon 36N-11HZ - HZ - HZ													Offset Site Error: 0.0 ft			
Survey Program: 17-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	47.0	47.0	0.0	0.1	84.86	179.0	1,988.1	1,996.2							
100.0	100.0	147.0	147.0	0.2	0.2	84.86	179.0	1,988.1	1,996.2	1,995.8	0.38	5,270.548				
148.0	148.0	195.0	195.0	0.2	0.3	84.86	179.0	1,988.1	1,996.2	1,995.6	0.55	3,654.746				
200.0	200.0	217.0	217.0	0.3	0.3	84.86	179.0	1,988.2	1,996.4	1,995.7	0.68	2,955.716				
300.0	300.0	290.9	290.9	0.5	0.5	25.76	179.8	1,989.3	1,997.4	1,996.4	0.98	2,038.107				
400.0	400.0	352.8	352.7	0.7	0.6	25.74	181.2	1,991.5	1,998.8	1,997.6	1.27	1,579.291				
500.0	499.9	417.0	416.8	0.9	0.7	25.71	183.5	1,995.0	2,000.6	1,999.0	1.56	1,284.190				
600.0	599.7	492.7	492.2	1.1	0.9	25.67	186.9	2,000.4	2,002.5	2,000.6	1.88	1,067.513				
700.0	699.4	592.7	591.8	1.3	1.1	25.65	191.7	2,007.7	2,003.1	2,000.9	2.24	893.199				
800.0	798.9	692.7	691.4	1.5	1.3	25.66	196.4	2,015.0	2,002.2	1,999.6	2.61	765.992				
900.0	898.3	792.7	791.0	1.8	1.6	25.69	201.2	2,022.3	1,999.7	1,996.7	2.99	668.825				
1,000.0	997.4	892.6	890.6	2.0	1.8	25.76	205.9	2,029.6	1,995.6	1,992.2	3.37	591.970				
1,100.0	1,096.3	992.4	990.0	2.3	2.0	25.85	210.7	2,036.9	1,990.0	1,986.2	3.76	529.478				
1,200.0	1,194.9	1,092.1	1,089.3	2.7	2.2	25.97	215.4	2,044.2	1,982.8	1,978.6	4.15	477.510				
1,300.0	1,293.3	1,191.6	1,188.5	3.0	2.5	26.13	220.1	2,051.5	1,974.0	1,969.5	4.55	433.483				
1,400.0	1,391.2	1,290.9	1,287.4	3.4	2.7	26.31	224.8	2,058.7	1,963.7	1,958.7	4.96	395.595				
1,500.0	1,488.9	1,390.1	1,386.2	3.8	2.9	26.52	229.5	2,066.0	1,951.8	1,946.5	5.38	362.552				
1,600.0	1,586.1	1,489.0	1,484.7	4.2	3.2	26.77	234.2	2,073.2	1,938.5	1,932.6	5.81	333.400				
1,700.0	1,682.9	1,587.6	1,583.0	4.7	3.4	27.05	238.9	2,080.4	1,923.6	1,917.3	6.26	307.423				
1,800.0	1,779.3	1,685.9	1,680.9	5.2	3.6	27.37	243.6	2,087.6	1,907.1	1,900.4	6.71	284.074				
1,900.0	1,875.2	1,783.9	1,778.5	5.7	3.8	27.72	248.2	2,094.8	1,889.2	1,882.1	7.19	262.926				
2,000.0	1,970.8	1,881.7	1,876.0	6.3	4.1	28.01	252.9	2,101.9	1,870.6	1,863.0	7.67	243.869				
2,100.0	2,066.4	1,957.8	1,951.8	6.8	4.3	28.23	256.6	2,107.7	1,852.4	1,844.3	8.12	228.093				
2,200.0	2,162.1	2,017.0	2,010.6	7.3	4.4	28.39	260.2	2,113.2	1,836.0	1,827.4	8.54	214.921				
2,300.0	2,257.7	2,084.5	2,077.5	7.9	4.6	28.54	265.1	2,120.7	1,821.4	1,812.4	8.99	202.536				
2,400.0	2,353.3	2,148.6	2,140.7	8.4	4.8	28.67	270.5	2,129.1	1,808.8	1,799.4	9.44	191.576				
2,500.0	2,448.9	2,217.0	2,208.1	9.0	5.1	28.78	277.2	2,139.3	1,798.2	1,788.3	9.91	181.507				
2,600.0	2,544.6	2,277.7	2,267.5	9.5	5.3	28.86	283.8	2,149.5	1,789.4	1,779.1	10.36	172.674				
2,700.0	2,640.2	2,342.6	2,330.9	10.1	5.6	28.92	291.7	2,161.6	1,782.7	1,771.8	10.83	164.577				
2,800.0	2,735.8	2,436.3	2,421.9	10.6	6.0	28.98	303.7	2,180.2	1,777.2	1,765.8	11.38	156.165				
2,900.0	2,831.5	2,536.2	2,518.9	11.2	6.4	29.04	316.6	2,200.0	1,771.7	1,759.7	11.95	148.276				
3,000.0	2,927.1	2,636.0	2,615.9	11.7	6.8	29.11	329.5	2,219.8	1,766.2	1,753.7	12.52	141.055				
3,100.0	3,022.7	2,735.8	2,712.9	12.2	7.2	29.18	342.4	2,239.7	1,760.8	1,747.7	13.10	134.425				
3,200.0	3,118.4	2,835.7	2,809.9	12.8	7.7	29.24	355.2	2,259.5	1,755.3	1,741.6	13.68	128.321				
3,300.0	3,214.0	2,935.5	2,906.8	13.3	8.1	29.31	368.1	2,279.3	1,749.8	1,735.6	14.26	122.684				
3,400.0	3,309.6	3,035.3	3,003.8	13.9	8.5	29.38	381.0	2,299.1	1,744.4	1,729.5	14.85	117.466				
3,500.0	3,405.3	3,135.1	3,100.8	14.4	9.0	29.45	393.9	2,319.0	1,738.9	1,723.5	15.44	112.623				
3,600.0	3,500.9	3,235.0	3,197.8	15.0	9.4	29.52	406.8	2,338.8	1,733.5	1,717.5	16.03	108.117				
3,700.0	3,596.5	3,334.8	3,294.8	15.5	9.9	29.59	419.6	2,358.6	1,728.0	1,711.4	16.63	103.915				
3,800.0	3,692.1	3,434.6	3,391.8	16.1	10.3	29.66	432.5	2,378.5	1,722.6	1,705.4	17.23	99.988				
3,900.0	3,787.8	3,534.5	3,488.8	16.7	10.8	29.73	445.4	2,398.3	1,717.2	1,699.3	17.83	96.311				
4,000.0	3,883.4	3,634.3	3,585.8	17.2	11.2	29.80	458.3	2,418.1	1,711.7	1,693.3	18.43	92.862				
4,100.0	3,979.0	3,734.1	3,682.8	17.8	11.6	29.87	471.2	2,437.9	1,706.3	1,687.2	19.04	89.619				
4,200.0	4,074.7	3,834.0	3,779.7	18.3	12.1	29.94	484.0	2,457.8	1,700.9	1,681.2	19.65	86.567				
4,300.0	4,170.3	3,933.8	3,876.7	18.9	12.5	30.01	496.9	2,477.6	1,695.4	1,675.2	20.26	83.688				
4,400.0	4,265.9	4,033.6	3,973.7	19.4	13.0	30.09	509.8	2,497.4	1,690.0	1,669.1	20.87	80.968				
4,500.0	4,361.6	4,133.4	4,070.7	20.0	13.4	30.16	522.7	2,517.3	1,684.6	1,663.1	21.49	78.396				
4,600.0	4,457.2	4,233.3	4,167.7	20.5	13.9	30.23	535.5	2,537.1	1,679.1	1,657.0	22.11	75.959				
4,700.0	4,552.8	4,333.1	4,264.7	21.1	14.3	30.31	548.4	2,556.9	1,673.7	1,651.0	22.73	73.647				
4,800.0	4,648.5	4,432.9	4,361.7	21.6	14.8	30.38	561.3	2,576.7	1,668.3	1,645.0	23.35	71.452				
4,900.0	4,744.1	4,532.8	4,458.7	22.2	15.2	30.46	574.2	2,596.6	1,662.9	1,638.9	23.97	69.364				
5,000.0	4,839.7	4,632.6	4,555.7	22.7	15.7	30.53	587.1	2,616.4	1,657.5	1,632.9	24.60	67.376				

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 1G-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 1G-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) - Cannon 36N-11HZ - HZ - HZ													Offset Site Error: 0.0 ft	
Survey Program: 17-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	4,935.3	4,732.4	4,652.7	23.3	16.1	30.61	599.9	2,636.2	1,652.1	1,626.8	25.23	65.481		
5,204.0	5,034.8	4,836.2	4,753.5	23.9	16.6	30.69	613.3	2,656.8	1,646.5	1,620.6	25.89	63.603		
5,300.0	5,126.8	4,932.1	4,846.7	24.4	17.0	30.72	625.7	2,675.9	1,642.0	1,615.5	26.48	62.011		
5,400.0	5,223.2	5,032.1	4,943.8	24.9	17.5	30.74	638.6	2,695.7	1,638.7	1,611.7	27.07	60.533		
5,500.0	5,320.0	5,132.0	5,040.9	25.3	17.9	30.73	651.5	2,715.6	1,637.0	1,609.4	27.64	59.223		
5,564.2	5,382.3	5,196.2	5,103.3	25.6	18.2	30.71	659.8	2,728.3	1,636.7	1,608.7	27.99	58.469	CC	
5,600.0	5,417.2	5,232.0	5,138.1	25.8	18.4	30.70	664.4	2,735.5	1,636.8	1,608.6	28.19	58.071	ES	
5,700.0	5,514.8	5,332.0	5,235.2	26.2	18.8	30.64	677.3	2,755.3	1,638.1	1,609.4	28.71	57.065		
5,800.0	5,612.8	5,431.9	5,332.3	26.5	19.3	30.56	690.2	2,775.2	1,640.9	1,611.7	29.20	56.197		
5,900.0	5,711.1	5,531.8	5,429.3	26.9	19.7	30.46	703.1	2,795.0	1,645.2	1,615.5	29.67	55.458		
6,000.0	5,809.7	5,631.5	5,526.2	27.2	20.2	30.34	715.9	2,814.8	1,651.0	1,620.9	30.11	54.840		
6,100.0	5,908.6	5,731.1	5,622.9	27.5	20.7	30.19	728.8	2,834.6	1,658.3	1,627.8	30.52	54.338		
6,200.0	6,007.7	5,830.5	5,719.5	27.8	21.1	30.03	741.6	2,854.3	1,667.2	1,636.3	30.91	53.944		
6,300.0	6,107.1	5,929.7	5,815.9	28.0	21.6	29.84	754.4	2,874.0	1,677.6	1,646.3	31.27	53.654		
6,400.0	6,206.6	6,028.7	5,912.1	28.2	22.0	29.64	767.2	2,893.7	1,689.5	1,657.9	31.60	53.463		
6,500.0	6,306.3	6,127.5	6,008.0	28.4	22.4	29.42	779.9	2,913.3	1,703.0	1,671.1	31.91	53.367		
6,600.0	6,406.1	6,225.9	6,103.6	28.6	22.9	29.18	792.6	2,932.8	1,718.0	1,685.8	32.20	53.361		
6,700.0	6,506.0	6,324.0	6,198.9	28.7	23.3	28.92	805.3	2,952.3	1,734.5	1,702.1	32.46	53.443		
6,800.0	6,606.0	6,421.7	6,293.9	28.8	23.8	28.66	817.9	2,971.8	1,752.7	1,720.0	32.69	53.609		
6,904.0	6,710.0	6,523.0	6,392.3	28.9	24.2	28.45	830.9	2,991.9	1,773.2	1,740.3	32.92	53.870		
6,918.8	6,724.8	6,537.4	6,406.3	28.9	24.3	28.39	832.8	2,994.7	1,776.3	1,743.3	32.94	53.917		
6,950.0	6,756.0	6,567.6	6,435.6	28.9	24.4	-92.23	836.7	3,000.7	1,782.7	1,749.5	33.25	53.620		
7,000.0	6,805.8	6,615.5	6,482.2	28.9	24.7	-91.68	842.9	3,010.2	1,793.2	1,759.5	33.66	53.281		
7,050.0	6,855.2	6,662.6	6,527.9	28.8	24.9	-91.22	848.9	3,019.6	1,803.9	1,769.9	33.98	53.085		
7,100.0	6,904.0	6,708.6	6,572.6	28.8	25.1	-90.82	854.9	3,028.7	1,814.7	1,780.5	34.23	53.022		
7,150.0	6,952.0	6,753.4	6,616.1	28.7	25.3	-90.49	860.7	3,037.6	1,825.8	1,791.4	34.40	53.081		
7,200.0	6,998.8	6,795.8	6,657.4	28.6	25.5	-90.18	865.8	3,046.1	1,837.1	1,802.6	34.49	53.263		
7,250.0	7,044.3	6,838.0	6,698.5	28.5	25.6	-89.84	868.4	3,054.8	1,848.8	1,814.3	34.49	53.602		
7,300.0	7,088.2	6,881.9	6,741.4	28.3	25.7	-89.49	867.7	3,064.3	1,860.7	1,826.3	34.41	54.081		
7,350.0	7,130.4	6,927.8	6,785.9	28.2	25.9	-89.14	863.5	3,074.4	1,872.8	1,838.5	34.26	54.666		
7,400.0	7,170.6	6,975.8	6,831.9	28.0	25.9	-88.79	855.2	3,085.4	1,885.0	1,851.0	34.00	55.448		
7,450.0	7,208.6	7,026.3	6,879.3	27.8	26.0	-88.44	842.3	3,097.1	1,897.3	1,863.6	33.68	56.341		
7,500.0	7,244.3	7,079.4	6,927.6	27.7	26.0	-88.10	824.1	3,109.6	1,909.5	1,876.2	33.24	57.452		
7,550.0	7,277.4	7,135.5	6,976.5	27.5	26.1	-87.75	800.0	3,122.9	1,921.5	1,888.8	32.73	58.703		
7,600.0	7,307.8	7,194.7	7,025.1	27.3	26.1	-87.42	769.4	3,136.8	1,933.3	1,901.1	32.14	60.149		
7,650.0	7,335.4	7,257.1	7,072.7	27.2	26.0	-87.07	731.7	3,151.3	1,944.7	1,913.2	31.49	61.756		
7,700.0	7,360.0	7,322.9	7,118.0	27.0	26.0	-86.72	686.4	3,166.0	1,955.6	1,924.8	30.80	63.496		
7,750.0	7,381.6	7,391.8	7,159.6	26.9	26.0	-86.34	633.5	3,180.8	1,965.9	1,935.8	30.09	65.330		
7,800.0	7,399.9	7,463.6	7,195.8	26.8	25.9	-85.94	573.2	3,195.1	1,975.5	1,946.1	29.42	67.155		
7,850.0	7,414.9	7,537.9	7,225.0	26.7	25.9	-85.48	506.4	3,208.7	1,984.3	1,955.5	28.82	68.856		
7,900.0	7,426.6	7,613.8	7,245.8	26.6	26.0	-84.98	434.5	3,220.9	1,992.1	1,963.8	28.34	70.293		
7,950.0	7,434.9	7,690.5	7,257.0	26.5	26.0	-84.41	359.4	3,231.4	1,999.0	1,971.0	28.05	71.265		
8,000.0	7,439.7	7,755.6	7,259.1	26.5	26.1	-83.83	294.7	3,238.8	2,005.0	1,977.1	27.94	71.754		
8,043.8	7,441.0	7,799.2	7,259.4	26.5	26.2	-83.43	251.4	3,243.5	2,009.8	1,981.8	27.99	71.811		
8,100.0	7,441.0	7,855.0	7,259.8	26.6	26.3	-83.46	195.9	3,249.5	2,015.8	1,987.6	28.21	71.459		
8,200.0	7,441.0	7,954.4	7,260.5	26.7	26.7	-83.52	97.1	3,260.3	2,026.4	1,997.5	28.90	70.109		
8,300.0	7,441.0	8,053.9	7,261.2	27.0	27.1	-83.57	-1.8	3,271.0	2,037.1	2,007.1	29.99	67.930		
8,400.0	7,441.0	8,153.3	7,261.9	27.4	27.7	-83.62	-100.6	3,281.7	2,047.8	2,016.3	31.42	65.170		
8,500.0	7,441.0	8,252.7	7,262.6	27.8	28.3	-83.68	-199.4	3,292.4	2,058.4	2,025.3	33.16	62.077		
8,600.0	7,441.0	8,352.1	7,263.2	28.4	29.0	-83.73	-298.3	3,303.2	2,069.1	2,033.9	35.16	58.853		
8,700.0	7,441.0	8,451.5	7,263.9	29.1	29.9	-83.78	-397.1	3,313.9	2,079.7	2,042.4	37.37	55.649		
8,800.0	7,441.0	8,550.9	7,264.6	29.9	30.8	-83.83	-495.9	3,324.6	2,090.4	2,050.6	39.77	52.563		

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 1G-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 1G-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) - Cannon 36N-11HZ - HZ - HZ													Offset Site Error:	0.0 ft
Survey Program: 17-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	7,441.0	8,650.3	7,265.3	30.8	31.7	-83.88	-594.8	3,335.4	2,101.1	2,058.7	42.32	49.649		
9,000.0	7,441.0	8,749.7	7,266.0	31.7	32.8	-83.93	-693.6	3,346.1	2,111.7	2,066.7	44.99	46.935		
9,100.0	7,441.0	8,849.2	7,266.7	32.7	33.9	-83.98	-792.4	3,356.8	2,122.4	2,074.6	47.77	44.429		
9,200.0	7,441.0	8,948.6	7,267.4	33.8	35.0	-84.03	-891.2	3,367.5	2,133.1	2,082.4	50.64	42.125		
9,300.0	7,441.0	9,048.0	7,268.0	34.9	36.2	-84.08	-990.1	3,378.3	2,143.7	2,090.2	53.58	40.013		
9,400.0	7,441.0	9,147.4	7,268.7	36.1	37.5	-84.12	-1,088.9	3,389.0	2,154.4	2,097.8	56.58	38.078		
9,500.0	7,441.0	9,246.8	7,269.4	37.3	38.8	-84.17	-1,187.7	3,399.7	2,165.1	2,105.4	59.63	36.307		
9,600.0	7,441.0	9,346.2	7,270.1	38.6	40.1	-84.22	-1,286.6	3,410.5	2,175.8	2,113.0	62.73	34.683		
9,700.0	7,441.0	9,445.6	7,270.8	39.9	41.4	-84.27	-1,385.4	3,421.2	2,186.4	2,120.6	65.87	33.193		
9,800.0	7,441.0	9,545.0	7,271.5	41.2	42.8	-84.31	-1,484.2	3,431.9	2,197.1	2,128.1	69.04	31.822		
9,900.0	7,441.0	9,644.5	7,272.1	42.6	44.2	-84.36	-1,583.1	3,442.7	2,207.8	2,135.5	72.24	30.560		
10,000.0	7,441.0	9,743.9	7,272.8	44.0	45.6	-84.40	-1,681.9	3,453.4	2,218.5	2,143.0	75.47	29.395		
10,100.0	7,441.0	9,843.3	7,273.5	45.4	47.1	-84.45	-1,780.7	3,464.1	2,229.1	2,150.4	78.72	28.317		
10,200.0	7,441.0	9,942.7	7,274.2	46.9	48.6	-84.49	-1,879.5	3,474.8	2,239.8	2,157.8	81.99	27.318		
10,300.0	7,441.0	10,042.1	7,274.9	48.4	50.1	-84.53	-1,978.4	3,485.6	2,250.5	2,165.2	85.28	26.391		
10,400.0	7,441.0	10,141.5	7,275.6	49.8	51.6	-84.58	-2,077.2	3,496.3	2,261.2	2,172.6	88.58	25.527		
10,500.0	7,441.0	10,240.9	7,276.2	51.3	53.1	-84.62	-2,176.0	3,507.0	2,271.9	2,180.0	91.90	24.722		
10,600.0	7,441.0	10,340.4	7,276.9	52.9	54.6	-84.66	-2,274.9	3,517.8	2,282.6	2,187.4	95.23	23.970		
10,700.0	7,441.0	10,439.8	7,277.6	54.4	56.2	-84.71	-2,373.7	3,528.5	2,293.3	2,194.7	98.57	23.266		
10,800.0	7,441.0	10,539.2	7,278.3	55.9	57.7	-84.75	-2,472.5	3,539.2	2,304.0	2,202.0	101.92	22.606		
10,900.0	7,441.0	10,638.6	7,279.0	57.5	59.3	-84.79	-2,571.4	3,549.9	2,314.6	2,209.4	105.28	21.986		
11,000.0	7,441.0	10,738.0	7,279.7	59.1	60.9	-84.83	-2,670.2	3,560.7	2,325.3	2,216.7	108.65	21.403		
11,100.0	7,441.0	10,837.4	7,280.3	60.7	62.5	-84.87	-2,769.0	3,571.4	2,336.0	2,224.0	112.02	20.853		
11,200.0	7,441.0	10,936.8	7,281.0	62.2	64.1	-84.91	-2,867.8	3,582.1	2,346.7	2,231.3	115.41	20.335		
11,300.0	7,441.0	11,036.2	7,281.7	63.8	65.7	-84.95	-2,966.7	3,592.9	2,357.4	2,238.6	118.80	19.844		
11,400.0	7,441.0	11,135.7	7,282.4	65.4	67.3	-84.99	-3,065.5	3,603.6	2,368.1	2,245.9	122.19	19.380		
11,500.0	7,441.0	11,235.1	7,283.1	67.1	68.9	-85.03	-3,164.3	3,614.3	2,378.8	2,253.2	125.59	18.941		
11,600.0	7,441.0	11,334.5	7,283.8	68.7	70.6	-85.07	-3,263.2	3,625.0	2,389.5	2,260.5	129.00	18.524		
11,700.0	7,441.0	11,433.9	7,284.4	70.3	72.2	-85.11	-3,362.0	3,635.8	2,400.2	2,267.8	132.41	18.127		
11,800.0	7,441.0	11,533.3	7,285.1	71.9	73.8	-85.15	-3,460.8	3,646.5	2,410.9	2,275.1	135.83	17.750		
11,900.0	7,441.0	11,632.7	7,285.8	73.6	75.5	-85.18	-3,559.7	3,657.2	2,421.6	2,282.4	139.25	17.391		
12,000.0	7,441.0	11,732.1	7,286.5	75.2	77.1	-85.22	-3,658.5	3,668.0	2,432.3	2,289.7	142.67	17.049		
12,100.0	7,441.0	11,831.5	7,287.2	76.9	78.8	-85.26	-3,757.3	3,678.7	2,443.0	2,296.9	146.10	16.722		
12,135.7	7,441.0	11,867.0	7,287.4	77.5	79.4	-85.27	-3,792.5	3,682.5	2,446.9	2,299.5	147.32	16.609 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #3 (Existing) - DD - DD													Offset Site Error: 0.0 ft			
Survey Program: 100-Gyro															Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis				Distance								
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
0.0	0.0	64.2	64.2	0.0	0.0	60.66	1,253.4	2,230.0	2,558.2							
100.0	100.0	160.0	160.0	0.2	0.1	60.64	1,253.8	2,228.8	2,557.3	2,557.0	0.28	9,155.710				
200.0	200.0	246.2	246.2	0.3	0.2	60.62	1,254.4	2,228.2	2,557.0	2,556.5	0.53	4,833.770				
300.0	300.0	353.2	353.2	0.5	0.3	1.53	1,255.0	2,227.8	2,556.1	2,555.3	0.80	3,207.228				
400.0	400.0	456.8	456.8	0.7	0.4	1.52	1,254.9	2,227.2	2,553.0	2,551.9	1.06	2,404.068				
500.0	499.9	547.0	547.0	0.9	0.5	1.51	1,255.5	2,226.6	2,548.3	2,547.0	1.32	1,937.148				
600.0	599.7	649.3	649.2	1.1	0.6	1.49	1,256.4	2,226.1	2,542.2	2,540.7	1.58	1,609.402				
700.0	699.4	752.5	752.4	1.3	0.6	1.48	1,257.0	2,225.3	2,534.0	2,532.2	1.84	1,373.757				
800.0	798.9	849.5	849.5	1.5	0.7	1.46	1,257.9	2,224.6	2,524.2	2,522.1	2.10	1,199.606				
900.0	898.3	947.1	947.1	1.8	0.8	1.45	1,258.6	2,223.9	2,512.7	2,510.3	2.36	1,062.755				
1,000.0	997.4	1,043.4	1,043.3	2.0	0.9	1.43	1,259.5	2,223.4	2,499.6	2,496.9	2.62	952.860				
1,100.0	1,096.3	1,139.0	1,138.9	2.3	1.0	1.43	1,260.1	2,223.0	2,484.8	2,481.9	2.88	862.458				
1,200.0	1,194.9	1,229.1	1,229.1	2.7	1.1	1.45	1,260.0	2,223.3	2,468.5	2,465.4	3.13	787.706				
1,300.0	1,293.3	1,327.9	1,327.8	3.0	1.1	1.45	1,260.6	2,223.6	2,450.8	2,447.5	3.39	721.929				
1,400.0	1,391.2	1,439.4	1,439.4	3.4	1.2	1.45	1,261.3	2,223.3	2,431.0	2,427.3	3.67	662.887				
1,500.0	1,488.9	1,537.2	1,537.1	3.8	1.3	1.46	1,261.8	2,222.8	2,409.2	2,405.3	3.93	613.410				
1,600.0	1,586.1	1,631.8	1,631.7	4.2	1.4	1.46	1,262.3	2,222.4	2,385.8	2,381.6	4.19	570.062				
1,700.0	1,682.9	1,728.7	1,728.6	4.7	1.5	1.47	1,263.0	2,222.1	2,360.7	2,356.3	4.44	531.122				
1,800.0	1,779.3	1,830.9	1,830.8	5.2	1.6	1.47	1,263.6	2,221.6	2,333.9	2,329.2	4.71	495.596				
1,900.0	1,875.2	1,933.2	1,933.1	5.7	1.7	1.48	1,264.0	2,220.8	2,305.0	2,300.0	4.97	463.404				
2,000.0	1,970.8	2,023.5	2,023.4	6.3	1.8	1.48	1,264.4	2,220.1	2,275.4	2,270.2	5.23	434.895				
2,100.0	2,066.4	2,122.8	2,122.7	6.8	1.8	1.47	1,265.0	2,219.3	2,245.8	2,240.3	5.50	408.470				
2,200.0	2,162.1	2,223.7	2,223.6	7.3	1.9	1.46	1,265.7	2,218.1	2,216.0	2,210.2	5.77	384.352				
2,300.0	2,257.7	2,322.9	2,322.8	7.9	2.0	1.45	1,266.2	2,216.9	2,185.9	2,179.9	6.03	362.439				
2,400.0	2,353.3	2,420.5	2,420.4	8.4	2.1	1.45	1,266.5	2,215.7	2,155.8	2,149.5	6.30	342.439				
2,500.0	2,448.9	2,518.1	2,517.9	9.0	2.2	1.45	1,266.7	2,214.3	2,125.5	2,118.9	6.56	324.031				
2,600.0	2,544.6	2,606.3	2,606.2	9.5	2.3	1.44	1,267.1	2,213.1	2,095.3	2,088.5	6.82	307.446				
2,700.0	2,640.2	2,708.7	2,708.6	10.1	2.4	1.42	1,267.7	2,211.6	2,065.2	2,058.1	7.08	291.533				
2,800.0	2,735.8	2,801.6	2,801.4	10.6	2.4	1.40	1,268.3	2,210.1	2,034.9	2,027.6	7.34	277.091				
2,900.0	2,831.5	2,905.1	2,905.0	11.2	2.5	1.38	1,269.1	2,208.3	2,004.5	1,996.9	7.61	263.286				
3,000.0	2,927.1	3,000.0	2,999.8	11.7	2.6	1.36	1,269.7	2,206.4	1,974.0	1,966.1	7.88	250.653				
3,100.0	3,022.7	3,090.2	3,090.0	12.2	2.7	1.33	1,270.3	2,204.7	1,943.5	1,935.4	8.13	238.973				
3,200.0	3,118.4	3,178.7	3,178.5	12.8	2.8	1.31	1,271.1	2,203.2	1,913.4	1,905.0	8.39	228.085				
3,300.0	3,214.0	3,279.8	3,279.5	13.3	2.9	1.28	1,272.1	2,201.6	1,883.3	1,874.6	8.66	217.576				
3,400.0	3,309.6	3,367.6	3,367.3	13.9	2.9	1.25	1,272.9	2,200.2	1,853.1	1,844.2	8.91	207.957				
3,500.0	3,405.3	3,456.5	3,456.2	14.4	3.0	1.21	1,274.2	2,199.0	1,823.5	1,814.3	9.17	198.907				
3,600.0	3,500.9	3,559.3	3,559.0	15.0	3.1	1.16	1,276.0	2,197.5	1,793.9	1,784.4	9.44	190.095				
3,700.0	3,596.5	3,655.8	3,655.4	15.5	3.2	1.08	1,278.1	2,195.3	1,763.8	1,754.1	9.70	181.821				
3,800.0	3,692.1	3,756.6	3,756.1	16.1	3.3	0.98	1,280.7	2,192.9	1,733.8	1,723.8	9.97	173.935				
3,900.0	3,787.8	3,853.0	3,852.5	16.7	3.4	0.89	1,282.6	2,190.3	1,703.3	1,693.1	10.23	166.477				
4,000.0	3,883.4	3,947.0	3,946.5	17.2	3.5	0.81	1,284.3	2,188.3	1,673.1	1,662.6	10.49	159.456				
4,100.0	3,979.0	4,046.0	4,045.5	17.8	3.6	0.73	1,285.9	2,185.9	1,642.7	1,631.9	10.76	152.691				
4,200.0	4,074.7	4,140.3	4,139.8	18.3	3.6	0.67	1,287.2	2,183.8	1,612.3	1,601.2	11.02	146.309				
4,300.0	4,170.3	4,235.5	4,234.9	18.9	3.7	0.60	1,288.3	2,181.7	1,581.8	1,570.6	11.28	140.215				
4,400.0	4,265.9	4,330.1	4,329.4	19.4	3.8	0.53	1,289.6	2,179.6	1,551.4	1,539.9	11.54	134.402				
4,500.0	4,361.6	4,422.7	4,422.0	20.0	3.9	0.46	1,290.9	2,177.7	1,521.2	1,509.3	11.80	128.882				
4,600.0	4,457.2	4,518.0	4,517.3	20.5	4.0	0.39	1,292.1	2,175.8	1,490.9	1,478.8	12.06	123.576				
4,700.0	4,552.8	4,606.3	4,605.6	21.1	4.1	0.32	1,293.3	2,174.3	1,460.9	1,448.6	12.32	118.580				
4,800.0	4,648.5	4,696.9	4,696.2	21.6	4.1	0.26	1,294.5	2,173.2	1,431.3	1,418.8	12.58	113.801				
4,900.0	4,744.1	4,789.0	4,788.3	22.2	4.2	0.20	1,295.8	2,172.4	1,402.0	1,389.2	12.84	109.225				
5,000.0	4,839.7	4,880.5	4,879.8	22.7	4.3	0.14	1,297.1	2,171.8	1,373.0	1,359.9	13.09	104.854				
5,100.0	4,935.3	4,977.4	4,976.7	23.3	4.4	0.08	1,298.5	2,171.4	1,344.1	1,330.8	13.36	100.628				

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 1G-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 1G-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 #3 (Existing) - DD - DD													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		
5,204.0	5,034.8	5,076.4	5,075.6	23.9	4.5	0.02	1,299.7	2,171.0	1,314.0	1,300.3	13.63	96.411		
5,300.0	5,126.8	5,167.3	5,166.5	24.4	4.5	-0.03	1,300.9	2,170.7	1,287.0	1,273.1	13.88	92.737		
5,400.0	5,223.2	5,265.0	5,264.2	24.9	4.6	-0.07	1,301.8	2,170.6	1,260.6	1,246.5	14.14	89.164		
5,500.0	5,320.0	5,364.5	5,363.7	25.3	4.7	-0.09	1,302.4	2,170.5	1,235.7	1,221.3	14.40	85.831		
5,600.0	5,417.2	5,463.5	5,462.7	25.8	4.8	-0.10	1,302.4	2,170.5	1,212.3	1,197.7	14.65	82.732		
5,700.0	5,514.8	5,562.5	5,561.7	26.2	4.9	-0.10	1,302.4	2,170.4	1,190.5	1,175.6	14.91	79.859		
5,800.0	5,612.8	5,661.0	5,660.2	26.5	5.0	-0.10	1,302.2	2,170.3	1,170.3	1,155.1	15.16	77.202		
5,900.0	5,711.1	5,758.8	5,758.0	26.9	5.1	-0.07	1,301.6	2,170.4	1,151.8	1,136.4	15.41	74.758		
6,000.0	5,809.7	5,860.4	5,859.6	27.2	5.1	-0.03	1,300.7	2,170.7	1,135.0	1,119.4	15.66	72.493		
6,100.0	5,908.6	5,970.7	5,969.9	27.5	5.2	0.03	1,299.3	2,170.4	1,119.3	1,103.4	15.91	70.345		
6,200.0	6,007.7	6,083.7	6,082.9	27.8	5.3	0.10	1,297.0	2,169.0	1,104.1	1,088.0	16.17	68.291		
6,300.0	6,107.1	6,199.7	6,198.8	28.0	5.4	0.14	1,294.2	2,166.0	1,089.3	1,072.9	16.43	66.317		
6,400.0	6,206.6	6,294.5	6,293.5	28.2	5.5	0.13	1,292.4	2,162.5	1,075.6	1,058.9	16.66	64.545		
6,500.0	6,306.3	6,400.0	6,398.9	28.4	5.6	0.07	1,291.2	2,158.1	1,063.4	1,046.5	16.91	62.888		
6,600.0	6,406.1	6,496.7	6,495.5	28.6	5.7	0.01	1,289.9	2,153.9	1,052.9	1,035.7	17.15	61.405		
6,700.0	6,506.0	6,594.3	6,593.0	28.7	5.8	-0.03	1,288.4	2,150.1	1,044.3	1,027.0	17.38	60.082		
6,800.0	6,606.0	6,697.0	6,695.6	28.8	5.9	-0.08	1,287.1	2,145.9	1,037.5	1,019.9	17.62	58.880		
6,904.0	6,710.0	6,795.6	6,794.1	28.9	6.0	58.91	1,286.4	2,141.7	1,032.3	1,014.5	17.86	57.799		
6,918.8	6,724.8	6,809.5	6,808.0	28.9	6.0	58.89	1,286.4	2,141.1	1,031.8	1,013.9	17.90	57.644		
6,950.0	6,756.0	6,838.7	6,837.2	28.9	6.0	-121.23	1,286.4	2,139.8	1,031.0	1,013.1	17.94	57.469		
6,966.0	6,772.0	6,853.8	6,852.2	28.9	6.0	-121.29	1,286.4	2,139.2	1,030.9	1,012.9	17.96	57.399 CC, ES		
7,000.0	6,805.8	6,885.5	6,883.9	28.9	6.1	-121.44	1,286.4	2,137.9	1,031.4	1,013.4	18.00	57.298		
7,050.0	6,855.2	6,938.1	6,936.5	28.8	6.1	-121.73	1,286.6	2,135.8	1,033.6	1,015.6	18.06	57.236 SF		
7,100.0	6,904.0	6,992.9	6,991.3	28.8	6.2	-122.11	1,286.9	2,133.2	1,037.5	1,019.4	18.11	57.276		
7,150.0	6,952.0	7,037.4	7,035.7	28.7	6.2	-122.38	1,287.2	2,130.9	1,043.3	1,025.2	18.15	57.474		
7,200.0	6,998.8	7,079.4	7,077.6	28.6	6.2	-122.59	1,287.5	2,129.0	1,051.4	1,033.2	18.18	57.826		
7,250.0	7,044.3	7,126.2	7,124.4	28.5	6.3	-122.87	1,287.9	2,126.9	1,061.7	1,043.5	18.21	58.302		
7,300.0	7,088.2	7,177.4	7,175.5	28.3	6.3	-123.24	1,288.4	2,124.3	1,074.0	1,055.7	18.24	58.886		
7,350.0	7,130.4	7,225.7	7,223.7	28.2	6.4	-123.54	1,288.8	2,121.5	1,088.3	1,070.0	18.26	59.604		
7,400.0	7,170.6	7,271.3	7,269.3	28.0	6.4	-123.72	1,288.9	2,118.6	1,104.8	1,086.5	18.27	60.456		
7,450.0	7,208.6	7,313.2	7,311.1	27.8	6.5	-123.71	1,288.9	2,115.9	1,123.4	1,105.2	18.29	61.435		
7,500.0	7,244.3	7,349.5	7,347.3	27.7	6.5	-123.42	1,288.9	2,113.4	1,144.5	1,126.2	18.31	62.522		
7,550.0	7,277.4	7,383.1	7,380.8	27.5	6.5	-122.89	1,289.0	2,111.1	1,168.0	1,149.7	18.34	63.675		
7,600.0	7,307.8	7,411.8	7,409.4	27.3	6.6	-122.00	1,289.2	2,109.0	1,193.9	1,175.5	18.41	64.843		
7,650.0	7,335.4	7,435.3	7,432.9	27.2	6.6	-120.67	1,289.4	2,107.3	1,222.2	1,203.7	18.53	65.962		
7,700.0	7,360.0	7,456.0	7,453.5	27.0	6.6	-118.94	1,289.6	2,105.8	1,252.8	1,234.1	18.70	66.994		
7,750.0	7,381.6	7,473.9	7,471.3	26.9	6.6	-116.76	1,289.9	2,104.5	1,285.6	1,266.7	18.93	67.913		
7,800.0	7,399.9	7,488.8	7,486.2	26.8	6.6	-114.06	1,290.1	2,103.5	1,320.4	1,301.1	19.21	68.721		
7,850.0	7,414.9	7,500.0	7,497.4	26.7	6.6	-110.75	1,290.3	2,102.7	1,356.9	1,337.3	19.54	69.445		
7,900.0	7,426.6	7,509.6	7,507.0	26.6	6.6	-106.89	1,290.5	2,102.0	1,394.9	1,375.0	19.88	70.174		
7,950.0	7,434.9	7,515.7	7,513.0	26.5	6.7	-102.33	1,290.7	2,101.6	1,434.3	1,414.1	20.21	70.961		
8,000.0	7,439.7	7,518.8	7,516.1	26.5	6.7	-97.12	1,290.7	2,101.4	1,474.7	1,454.2	20.52	71.881		
8,043.8	7,441.0	7,519.1	7,516.4	26.5	6.7	-92.07	1,290.7	2,101.4	1,510.8	1,490.1	20.75	72.814		
8,100.0	7,441.0	7,518.1	7,515.5	26.6	6.7	-92.00	1,290.7	2,101.4	1,557.7	1,536.8	20.86	74.659		
8,200.0	7,441.0	7,516.4	7,513.7	26.7	6.7	-91.88	1,290.7	2,101.5	1,642.7	1,621.4	21.23	77.367		
8,300.0	7,441.0	7,514.7	7,512.0	27.0	6.7	-91.77	1,290.6	2,101.7	1,729.2	1,707.4	21.79	79.344		
8,400.0	7,441.0	7,513.0	7,510.4	27.4	6.7	-91.65	1,290.6	2,101.8	1,817.2	1,794.6	22.53	80.658		
8,500.0	7,441.0	7,511.3	7,508.7	27.8	6.7	-91.54	1,290.6	2,101.9	1,906.3	1,882.9	23.42	81.412		
8,600.0	7,441.0	7,500.0	7,497.4	28.4	6.6	-90.77	1,290.3	2,102.7	1,996.5	1,972.0	24.44	81.698		
8,700.0	7,441.0	7,500.0	7,497.4	29.1	6.6	-90.77	1,290.3	2,102.7	2,087.5	2,062.0	25.56	81.677		
8,800.0	7,441.0	7,500.0	7,497.4	29.9	6.6	-90.77	1,290.3	2,102.7	2,179.4	2,152.6	26.77	81.412		
8,900.0	7,441.0	7,500.0	7,497.4	30.8	6.6	-90.77	1,290.3	2,102.7	2,271.9	2,243.8	28.06	80.978		

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 1G-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 1G-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 #3 (Existing) - DD - DD											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	
9,000.0	7,441.0	7,500.0	7,497.4	31.7	6.6	-90.77	1,290.3	2,102.7	2,365.0	2,335.6	29.40	80.432	
9,100.0	7,441.0	7,500.0	7,497.4	32.7	6.6	-90.77	1,290.3	2,102.7	2,458.7	2,427.9	30.80	79.817	
9,200.0	7,441.0	7,500.0	7,497.4	33.8	6.6	-90.77	1,290.3	2,102.7	2,552.8	2,520.6	32.25	79.163	
9,300.0	7,441.0	7,500.0	7,497.4	34.9	6.6	-90.77	1,290.3	2,102.7	2,647.4	2,613.7	33.73	78.493	
9,400.0	7,441.0	7,500.0	7,497.4	36.1	6.6	-90.77	1,290.3	2,102.7	2,742.4	2,707.1	35.24	77.822	
9,500.0	7,441.0	7,500.0	7,497.4	37.3	6.6	-90.77	1,290.3	2,102.7	2,837.7	2,800.9	36.78	77.161	
9,600.0	7,441.0	7,500.0	7,497.4	38.6	6.6	-90.77	1,290.3	2,102.7	2,933.3	2,895.0	38.34	76.516	
9,700.0	7,441.0	7,500.0	7,497.4	39.9	6.6	-90.77	1,290.3	2,102.7	3,029.2	2,989.3	39.91	75.892	
9,800.0	7,441.0	7,500.0	7,497.4	41.2	6.6	-90.77	1,290.3	2,102.7	3,125.3	3,083.8	41.51	75.291	
9,900.0	7,441.0	7,500.0	7,497.4	42.6	6.6	-90.77	1,290.3	2,102.7	3,221.7	3,178.6	43.12	74.715	
10,000.0	7,441.0	7,500.0	7,497.4	44.0	6.6	-90.77	1,290.3	2,102.7	3,318.4	3,273.6	44.74	74.164	
10,100.0	7,441.0	7,500.0	7,497.4	45.4	6.6	-90.77	1,290.3	2,102.7	3,415.2	3,368.8	46.38	73.639	
10,200.0	7,441.0	7,500.0	7,497.4	46.9	6.6	-90.77	1,290.3	2,102.7	3,512.1	3,464.1	48.02	73.138	
10,300.0	7,441.0	7,500.0	7,497.4	48.4	6.6	-90.77	1,290.3	2,102.7	3,609.3	3,559.6	49.67	72.661	
10,400.0	7,441.0	7,500.0	7,497.4	49.8	6.6	-90.77	1,290.3	2,102.7	3,706.6	3,655.2	51.33	72.206	
10,500.0	7,441.0	7,500.0	7,497.4	51.3	6.6	-90.77	1,290.3	2,102.7	3,804.0	3,751.0	53.00	71.774	
10,600.0	7,441.0	7,500.0	7,497.4	52.9	6.6	-90.77	1,290.3	2,102.7	3,901.6	3,846.9	54.67	71.362	
10,700.0	7,441.0	7,500.0	7,497.4	54.4	6.6	-90.77	1,290.3	2,102.7	3,999.3	3,942.9	56.35	70.969	
10,800.0	7,441.0	7,480.6	7,478.0	55.9	6.6	-89.46	1,290.0	2,104.0	4,097.0	4,039.0	58.03	70.599	
10,900.0	7,441.0	7,479.5	7,477.0	57.5	6.6	-89.39	1,290.0	2,104.1	4,194.9	4,135.2	59.72	70.244	
11,000.0	7,441.0	7,478.5	7,476.0	59.1	6.6	-89.32	1,290.0	2,104.2	4,292.9	4,231.5	61.41	69.905	
11,100.0	7,441.0	7,477.5	7,475.0	60.7	6.6	-89.25	1,289.9	2,104.3	4,391.0	4,327.9	63.10	69.582	
11,200.0	7,441.0	7,476.5	7,474.0	62.2	6.6	-89.19	1,289.9	2,104.3	4,489.1	4,424.3	64.80	69.274	
11,300.0	7,441.0	7,475.6	7,473.0	63.8	6.6	-89.12	1,289.9	2,104.4	4,587.4	4,520.9	66.50	68.979	
11,400.0	7,441.0	7,474.6	7,472.1	65.4	6.6	-89.06	1,289.9	2,104.5	4,685.7	4,617.5	68.21	68.697	
11,500.0	7,441.0	7,473.7	7,471.2	67.1	6.6	-89.00	1,289.9	2,104.5	4,784.1	4,714.2	69.91	68.428	
11,600.0	7,441.0	7,472.8	7,470.2	68.7	6.6	-88.93	1,289.9	2,104.6	4,882.6	4,810.9	71.62	68.170	
11,700.0	7,441.0	7,471.9	7,469.3	70.3	6.6	-88.87	1,289.9	2,104.7	4,981.1	4,907.7	73.33	67.923	
11,800.0	7,441.0	7,471.0	7,468.5	71.9	6.6	-88.81	1,289.8	2,104.7	5,079.6	5,004.6	75.05	67.686	
11,900.0	7,441.0	7,470.1	7,467.6	73.6	6.6	-88.75	1,289.8	2,104.8	5,178.3	5,101.5	76.76	67.459	
12,000.0	7,441.0	7,469.3	7,466.7	75.2	6.6	-88.70	1,289.8	2,104.8	5,276.9	5,198.5	78.48	67.241	
12,100.0	7,441.0	7,468.4	7,465.9	76.9	6.6	-88.64	1,289.8	2,104.9	5,375.7	5,295.5	80.20	67.032	
12,135.7	7,441.0	7,468.1	7,465.6	77.5	6.6	-88.62	1,289.8	2,104.9	5,410.9	5,330.1	80.81	66.959	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #3 (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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	45.0	45.0	0.0	0.1	60.67	1,253.3	2,230.3	2,558.4						
100.0	100.0	145.0	145.0	0.2	0.2	60.67	1,253.3	2,230.3	2,558.4	2,558.0	0.38	6,754.958			
200.0	200.0	245.0	245.0	0.3	0.4	60.67	1,253.3	2,230.3	2,558.4	2,557.6	0.73	3,515.172			
300.0	300.0	345.0	345.0	0.5	0.6	1.59	1,253.3	2,230.3	2,557.5	2,556.4	1.08	2,375.156			
400.0	400.0	445.0	445.0	0.7	0.8	1.59	1,253.3	2,230.3	2,554.9	2,553.4	1.43	1,792.381			
500.0	499.9	544.9	544.9	0.9	0.9	1.59	1,253.3	2,230.3	2,550.5	2,548.7	1.77	1,438.077			
600.0	599.7	644.7	644.7	1.1	1.1	1.60	1,253.3	2,230.3	2,544.4	2,542.3	2.12	1,199.601			
700.0	699.4	744.4	744.4	1.3	1.3	1.61	1,253.3	2,230.3	2,536.6	2,534.1	2.47	1,027.906			
800.0	798.9	843.9	843.9	1.5	1.4	1.62	1,253.3	2,230.3	2,527.0	2,524.2	2.81	898.211			
900.0	898.3	943.3	943.3	1.8	1.6	1.63	1,253.3	2,230.3	2,515.7	2,512.5	3.16	796.643			
1,000.0	997.4	1,042.4	1,042.4	2.0	1.8	1.64	1,253.3	2,230.3	2,502.6	2,499.1	3.50	714.835			
1,100.0	1,096.3	1,141.3	1,141.3	2.3	2.0	1.65	1,253.3	2,230.3	2,487.8	2,484.0	3.84	647.435			
1,200.0	1,194.9	1,239.9	1,239.9	2.7	2.1	1.67	1,253.3	2,230.3	2,471.3	2,467.2	4.18	590.864			
1,300.0	1,293.3	1,338.3	1,338.3	3.0	2.3	1.69	1,253.3	2,230.3	2,453.1	2,448.6	4.52	542.638			
1,400.0	1,391.2	1,436.2	1,436.2	3.4	2.5	1.71	1,253.3	2,230.3	2,433.2	2,428.3	4.86	500.976			
1,500.0	1,488.9	1,533.9	1,533.9	3.8	2.7	1.73	1,253.3	2,230.3	2,411.6	2,406.4	5.19	464.569			
1,600.0	1,586.1	1,631.1	1,631.1	4.2	2.8	1.75	1,253.3	2,230.3	2,388.2	2,382.7	5.52	432.436			
1,700.0	1,682.9	1,727.9	1,727.9	4.7	3.0	1.78	1,253.3	2,230.3	2,363.2	2,357.3	5.85	403.822			
1,800.0	1,779.3	1,824.3	1,824.3	5.2	3.2	1.81	1,253.3	2,230.3	2,336.5	2,330.3	6.18	378.141			
1,900.0	1,875.2	1,920.2	1,920.2	5.7	3.3	1.84	1,253.3	2,230.3	2,308.1	2,301.6	6.50	354.929			
2,000.0	1,970.8	2,015.8	2,015.8	6.3	3.5	1.86	1,253.3	2,230.3	2,278.9	2,272.0	6.84	333.013			
2,100.0	2,066.4	2,111.4	2,111.4	6.8	3.7	1.89	1,253.3	2,230.3	2,249.7	2,242.5	7.18	313.176			
2,200.0	2,162.1	2,207.1	2,207.1	7.3	3.8	1.91	1,253.3	2,230.3	2,220.4	2,212.9	7.52	295.133			
2,300.0	2,257.7	2,302.7	2,302.7	7.9	4.0	1.94	1,253.3	2,230.3	2,191.2	2,183.3	7.86	278.652			
2,400.0	2,353.3	2,398.3	2,398.3	8.4	4.2	1.96	1,253.3	2,230.3	2,162.0	2,153.8	8.20	263.538			
2,500.0	2,448.9	2,493.9	2,493.9	9.0	4.3	1.99	1,253.3	2,230.3	2,132.8	2,124.2	8.54	249.627			
2,600.0	2,544.6	2,589.6	2,589.6	9.5	4.5	2.02	1,253.3	2,230.3	2,103.5	2,094.7	8.88	236.781			
2,700.0	2,640.2	2,685.2	2,685.2	10.1	4.7	2.05	1,253.3	2,230.3	2,074.3	2,065.1	9.22	224.882			
2,800.0	2,735.8	2,780.8	2,780.8	10.6	4.8	2.08	1,253.3	2,230.3	2,045.1	2,035.5	9.56	213.828			
2,900.0	2,831.5	2,876.5	2,876.5	11.2	5.0	2.11	1,253.3	2,230.3	2,015.9	2,006.0	9.90	203.533			
3,000.0	2,927.1	2,972.1	2,972.1	11.7	5.2	2.14	1,253.3	2,230.3	1,986.7	1,976.4	10.24	193.921			
3,100.0	3,022.7	3,067.7	3,067.7	12.2	5.3	2.17	1,253.3	2,230.3	1,957.5	1,946.9	10.59	184.926			
3,200.0	3,118.4	3,163.4	3,163.4	12.8	5.5	2.20	1,253.3	2,230.3	1,928.2	1,917.3	10.93	176.491			
3,300.0	3,214.0	3,259.0	3,259.0	13.3	5.7	2.24	1,253.3	2,230.3	1,899.0	1,887.8	11.27	168.564			
3,400.0	3,309.6	3,354.6	3,354.6	13.9	5.8	2.27	1,253.3	2,230.3	1,869.8	1,858.2	11.61	161.101			
3,500.0	3,405.3	3,450.3	3,450.3	14.4	6.0	2.31	1,253.3	2,230.3	1,840.6	1,828.6	11.95	154.063			
3,600.0	3,500.9	3,545.9	3,545.9	15.0	6.2	2.34	1,253.3	2,230.3	1,811.4	1,799.1	12.29	147.413			
3,700.0	3,596.5	3,641.5	3,641.5	15.5	6.3	2.38	1,253.3	2,230.3	1,782.2	1,769.5	12.63	141.122			
3,800.0	3,692.1	3,737.1	3,737.1	16.1	6.5	2.42	1,253.3	2,230.3	1,752.9	1,740.0	12.97	135.159			
3,900.0	3,787.8	3,832.8	3,832.8	16.7	6.7	2.46	1,253.3	2,230.3	1,723.7	1,710.4	13.31	129.502			
4,000.0	3,883.4	3,928.4	3,928.4	17.2	6.8	2.51	1,253.3	2,230.3	1,694.5	1,680.9	13.65	124.125			
4,100.0	3,979.0	4,024.0	4,024.0	17.8	7.0	2.55	1,253.3	2,230.3	1,665.3	1,651.3	13.99	119.010			
4,200.0	4,074.7	4,119.7	4,119.7	18.3	7.2	2.60	1,253.3	2,230.3	1,636.1	1,621.8	14.33	114.137			
4,300.0	4,170.3	4,215.3	4,215.3	18.9	7.3	2.64	1,253.3	2,230.3	1,606.9	1,592.2	14.68	109.489			
4,400.0	4,265.9	4,310.9	4,310.9	19.4	7.5	2.69	1,253.3	2,230.3	1,577.7	1,562.7	15.02	105.052			
4,500.0	4,361.6	4,406.6	4,406.6	20.0	7.7	2.74	1,253.3	2,230.3	1,548.5	1,533.1	15.36	100.811			
4,600.0	4,457.2	4,502.2	4,502.2	20.5	7.8	2.80	1,253.3	2,230.3	1,519.3	1,503.6	15.70	96.753			
4,700.0	4,552.8	4,597.8	4,597.8	21.1	8.0	2.85	1,253.3	2,230.3	1,490.1	1,474.0	16.05	92.867			
4,800.0	4,648.5	4,693.5	4,693.5	21.6	8.2	2.91	1,253.3	2,230.3	1,460.9	1,444.5	16.39	89.143			
4,900.0	4,744.1	4,789.1	4,789.1	22.2	8.3	2.97	1,253.3	2,230.3	1,431.7	1,414.9	16.73	85.569			
5,000.0	4,839.7	4,884.7	4,884.7	22.7	8.5	3.03	1,253.3	2,230.3	1,402.5	1,385.4	17.07	82.138			
5,100.0	4,935.3	4,980.3	4,980.3	23.3	8.7	3.09	1,253.3	2,230.3	1,373.3	1,355.8	17.42	78.840			

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 1G-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 1G-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 #3 (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 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)				
5,204.0	5,034.8	5,079.8	5,079.8	23.9	8.8	3.16	1,253.3	2,230.3	1,342.9	1,325.1	17.78	75.544		
5,300.0	5,126.8	5,171.8	5,171.8	24.4	9.0	3.21	1,253.3	2,230.3	1,315.6	1,297.5	18.14	72.529		
5,400.0	5,223.2	5,268.2	5,268.2	24.9	9.2	3.26	1,253.3	2,230.3	1,288.9	1,270.4	18.52	69.609		
5,500.0	5,320.0	5,365.0	5,365.0	25.3	9.3	3.31	1,253.3	2,230.3	1,263.8	1,244.9	18.89	66.903		
5,600.0	5,417.2	5,462.2	5,462.2	25.8	9.5	3.36	1,253.3	2,230.3	1,240.4	1,221.2	19.26	64.399		
5,700.0	5,514.8	5,559.8	5,559.8	26.2	9.7	3.41	1,253.3	2,230.3	1,218.8	1,199.1	19.63	62.084		
5,800.0	5,612.8	5,657.8	5,657.8	26.5	9.8	3.45	1,253.3	2,230.3	1,198.8	1,178.8	20.00	59.949		
5,900.0	5,711.1	5,756.1	5,756.1	26.9	10.0	3.49	1,253.3	2,230.3	1,180.5	1,160.2	20.36	57.983		
6,000.0	5,809.7	5,854.7	5,854.7	27.2	10.2	3.53	1,253.3	2,230.3	1,164.0	1,143.3	20.72	56.177		
6,100.0	5,908.6	5,953.6	5,953.6	27.5	10.4	3.57	1,253.3	2,230.3	1,149.2	1,128.1	21.08	54.524		
6,200.0	6,007.7	6,052.7	6,052.7	27.8	10.5	3.60	1,253.3	2,230.3	1,136.1	1,114.6	21.43	53.016		
6,300.0	6,107.1	6,152.1	6,152.1	28.0	10.7	3.63	1,253.3	2,230.3	1,124.7	1,102.9	21.78	51.645		
6,400.0	6,206.6	6,251.6	6,251.6	28.2	10.9	3.66	1,253.3	2,230.3	1,115.1	1,092.9	22.12	50.405		
6,500.0	6,306.3	6,351.3	6,351.3	28.4	11.1	3.68	1,253.3	2,230.3	1,107.2	1,084.7	22.46	49.289		
6,600.0	6,406.1	6,451.1	6,451.1	28.6	11.2	3.70	1,253.3	2,230.3	1,101.0	1,078.2	22.80	48.292		
6,700.0	6,506.0	6,551.0	6,551.0	28.7	11.4	3.71	1,253.3	2,230.3	1,096.6	1,073.5	23.13	47.409		
6,800.0	6,606.0	6,651.0	6,651.0	28.8	11.6	3.71	1,253.3	2,230.3	1,093.9	1,070.4	23.46	46.635		
6,904.0	6,710.0	6,755.0	6,755.0	28.9	11.8	62.80	1,253.3	2,230.3	1,093.0	1,069.2	23.79	45.940		
6,918.8	6,724.8	6,769.8	6,769.8	28.9	11.8	62.80	1,253.3	2,230.3	1,093.0	1,069.1	23.84	45.840 CC, ES		
6,950.0	6,756.0	6,801.0	6,801.0	28.9	11.8	-117.22	1,253.3	2,230.3	1,093.3	1,069.4	23.91	45.719		
7,000.0	6,805.8	6,850.8	6,850.8	28.9	11.9	-117.27	1,253.3	2,230.3	1,095.1	1,071.1	24.01	45.613		
7,050.0	6,855.2	6,900.2	6,900.2	28.8	12.0	-117.37	1,253.3	2,230.3	1,098.5	1,074.4	24.08	45.611 SF		
7,100.0	6,904.0	6,949.0	6,949.0	28.8	12.1	-117.49	1,253.3	2,230.3	1,103.6	1,079.4	24.14	45.712		
7,150.0	6,952.0	6,997.0	6,997.0	28.7	12.2	-117.64	1,253.3	2,230.3	1,110.4	1,086.2	24.18	45.914		
7,200.0	6,998.8	7,043.8	7,043.8	28.6	12.3	-117.78	1,253.3	2,230.3	1,118.9	1,094.7	24.21	46.217		
7,250.0	7,044.3	7,089.3	7,089.3	28.5	12.3	-117.89	1,253.3	2,230.3	1,129.3	1,105.1	24.23	46.617		
7,300.0	7,088.2	7,133.2	7,133.2	28.3	12.4	-117.96	1,253.3	2,230.3	1,141.7	1,117.4	24.23	47.112		
7,350.0	7,130.4	7,175.4	7,175.4	28.2	12.5	-117.94	1,253.3	2,230.3	1,156.0	1,131.7	24.24	47.692		
7,400.0	7,170.6	7,215.6	7,215.6	28.0	12.6	-117.82	1,253.3	2,230.3	1,172.3	1,148.1	24.25	48.349		
7,450.0	7,208.6	7,253.6	7,253.6	27.8	12.6	-117.55	1,253.3	2,230.3	1,190.8	1,166.5	24.27	49.065		
7,500.0	7,244.3	7,289.3	7,289.3	27.7	12.7	-117.11	1,253.3	2,230.3	1,211.3	1,187.0	24.31	49.820		
7,550.0	7,277.4	7,322.4	7,322.4	27.5	12.8	-116.45	1,253.3	2,230.3	1,234.0	1,209.7	24.39	50.589		
7,600.0	7,307.8	7,352.8	7,352.8	27.3	12.8	-115.55	1,253.3	2,230.3	1,258.9	1,234.3	24.52	51.343		
7,650.0	7,335.4	7,380.4	7,380.4	27.2	12.9	-114.35	1,253.3	2,230.3	1,285.8	1,261.1	24.70	52.057		
7,700.0	7,360.0	7,405.0	7,405.0	27.0	12.9	-112.81	1,253.3	2,230.3	1,314.6	1,289.7	24.94	52.711		
7,750.0	7,381.6	7,426.6	7,426.6	26.9	12.9	-110.89	1,253.3	2,230.3	1,345.4	1,320.2	25.24	53.298		
7,800.0	7,399.9	7,444.9	7,444.9	26.8	13.0	-108.55	1,253.3	2,230.3	1,378.0	1,352.4	25.60	53.828		
7,850.0	7,414.9	7,459.9	7,459.9	26.7	13.0	-105.74	1,253.3	2,230.3	1,412.2	1,386.2	25.99	54.332		
7,900.0	7,426.6	7,471.6	7,471.6	26.6	13.0	-102.42	1,253.3	2,230.3	1,447.8	1,421.4	26.39	54.859		
7,950.0	7,434.9	7,479.9	7,479.9	26.5	13.0	-98.58	1,253.3	2,230.3	1,484.7	1,458.0	26.77	55.471		
8,000.0	7,439.7	7,484.7	7,484.7	26.5	13.0	-94.22	1,253.3	2,230.3	1,522.7	1,495.6	27.08	56.229		
8,043.8	7,441.0	7,486.0	7,486.0	26.5	13.0	-90.00	1,253.3	2,230.3	1,556.7	1,529.4	27.29	57.050		
8,100.0	7,441.0	7,486.0	7,486.0	26.6	13.0	-90.00	1,253.3	2,230.3	1,600.9	1,573.5	27.40	58.428		
8,200.0	7,441.0	7,486.0	7,486.0	26.7	13.0	-90.00	1,253.3	2,230.3	1,681.5	1,653.7	27.77	60.561		
8,300.0	7,441.0	7,486.0	7,486.0	27.0	13.0	-90.00	1,253.3	2,230.3	1,764.0	1,735.7	28.32	62.280		
8,400.0	7,441.0	7,486.0	7,486.0	27.4	13.0	-90.00	1,253.3	2,230.3	1,848.3	1,819.2	29.06	63.610		
8,500.0	7,441.0	7,486.0	7,486.0	27.8	13.0	-90.00	1,253.3	2,230.3	1,934.1	1,904.1	29.94	64.598		
8,600.0	7,441.0	7,486.0	7,486.0	28.4	13.0	-90.00	1,253.3	2,230.3	2,021.1	1,990.2	30.95	65.300		
8,700.0	7,441.0	7,486.0	7,486.0	29.1	13.0	-90.00	1,253.3	2,230.3	2,109.4	2,077.3	32.07	65.770		
8,800.0	7,441.0	7,486.0	7,486.0	29.9	13.0	-90.00	1,253.3	2,230.3	2,198.6	2,165.3	33.28	66.059		
8,900.0	7,441.0	7,486.0	7,486.0	30.8	13.0	-90.00	1,253.3	2,230.3	2,288.7	2,254.2	34.57	66.210		
9,000.0	7,441.0	7,486.0	7,486.0	31.7	13.0	-90.00	1,253.3	2,230.3	2,379.6	2,343.7	35.92	66.256		

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 1G-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 1G-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 #3 (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		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		
9,100.0	7,441.0	7,486.0	7,486.0	32.7	13.0	-90.00	1,253.3	2,230.3	2,471.3	2,433.9	37.32	66.226		
9,200.0	7,441.0	7,486.0	7,486.0	33.8	13.0	-90.00	1,253.3	2,230.3	2,563.5	2,524.7	38.76	66.140		
9,300.0	7,441.0	7,486.0	7,486.0	34.9	13.0	-90.00	1,253.3	2,230.3	2,656.3	2,616.1	40.24	66.014		
9,400.0	7,441.0	7,486.0	7,486.0	36.1	13.0	-90.00	1,253.3	2,230.3	2,749.6	2,707.9	41.75	65.861		
9,500.0	7,441.0	7,486.0	7,486.0	37.3	13.0	-90.00	1,253.3	2,230.3	2,843.4	2,800.1	43.29	65.688		
9,600.0	7,441.0	7,486.0	7,486.0	38.6	13.0	-90.00	1,253.3	2,230.3	2,937.5	2,892.7	44.85	65.504		
9,700.0	7,441.0	7,486.0	7,486.0	39.9	13.0	-90.00	1,253.3	2,230.3	3,032.1	2,985.7	46.42	65.313		
9,800.0	7,441.0	7,486.0	7,486.0	41.2	13.0	-90.00	1,253.3	2,230.3	3,127.0	3,079.0	48.02	65.119		
9,900.0	7,441.0	7,486.0	7,486.0	42.6	13.0	-90.00	1,253.3	2,230.3	3,222.2	3,172.5	49.63	64.925		
10,000.0	7,441.0	7,486.0	7,486.0	44.0	13.0	-90.00	1,253.3	2,230.3	3,317.6	3,266.4	51.25	64.732		
10,100.0	7,441.0	7,486.0	7,486.0	45.4	13.0	-90.00	1,253.3	2,230.3	3,413.4	3,360.5	52.89	64.541		
10,200.0	7,441.0	7,486.0	7,486.0	46.9	13.0	-90.00	1,253.3	2,230.3	3,509.4	3,454.8	54.53	64.357		
10,300.0	7,441.0	7,486.0	7,486.0	48.4	13.0	-90.00	1,253.3	2,230.3	3,605.6	3,549.4	56.18	64.177		
10,400.0	7,441.0	7,486.0	7,486.0	49.8	13.0	-90.00	1,253.3	2,230.3	3,701.9	3,644.1	57.84	64.001		
10,500.0	7,441.0	7,486.0	7,486.0	51.3	13.0	-90.00	1,253.3	2,230.3	3,798.5	3,739.0	59.51	63.832		
10,600.0	7,441.0	7,486.0	7,486.0	52.9	13.0	-90.00	1,253.3	2,230.3	3,895.3	3,834.1	61.18	63.667		
10,700.0	7,441.0	7,486.0	7,486.0	54.4	13.0	-90.00	1,253.3	2,230.3	3,992.2	3,929.3	62.86	63.509		
10,800.0	7,441.0	7,486.0	7,486.0	55.9	13.0	-90.00	1,253.3	2,230.3	4,089.3	4,024.7	64.54	63.356		
10,900.0	7,441.0	7,486.0	7,486.0	57.5	13.0	-90.00	1,253.3	2,230.3	4,186.5	4,120.2	66.23	63.209		
11,000.0	7,441.0	7,486.0	7,486.0	59.1	13.0	-90.00	1,253.3	2,230.3	4,283.8	4,215.9	67.92	63.067		
11,100.0	7,441.0	7,486.0	7,486.0	60.7	13.0	-90.00	1,253.3	2,230.3	4,381.2	4,311.6	69.62	62.930		
11,200.0	7,441.0	7,486.0	7,486.0	62.2	13.0	-90.00	1,253.3	2,230.3	4,478.8	4,407.5	71.32	62.798		
11,300.0	7,441.0	7,486.0	7,486.0	63.8	13.0	-90.00	1,253.3	2,230.3	4,576.5	4,503.4	73.02	62.672		
11,400.0	7,441.0	7,486.0	7,486.0	65.4	13.0	-90.00	1,253.3	2,230.3	4,674.2	4,599.5	74.73	62.549		
11,500.0	7,441.0	7,486.0	7,486.0	67.1	13.0	-90.00	1,253.3	2,230.3	4,772.1	4,695.7	76.44	62.432		
11,600.0	7,441.0	7,486.0	7,486.0	68.7	13.0	-90.00	1,253.3	2,230.3	4,870.0	4,791.9	78.15	62.319		
11,700.0	7,441.0	7,486.0	7,486.0	70.3	13.0	-90.00	1,253.3	2,230.3	4,968.1	4,888.2	79.86	62.209		
11,800.0	7,441.0	7,486.0	7,486.0	71.9	13.0	-90.00	1,253.3	2,230.3	5,066.2	4,984.6	81.58	62.104		
11,900.0	7,441.0	7,486.0	7,486.0	73.6	13.0	-90.00	1,253.3	2,230.3	5,164.4	5,081.1	83.29	62.003		
12,000.0	7,441.0	7,486.0	7,486.0	75.2	13.0	-90.00	1,253.3	2,230.3	5,262.6	5,177.6	85.01	61.905		
12,100.0	7,441.0	7,486.0	7,486.0	76.9	13.0	-90.00	1,253.3	2,230.3	5,360.9	5,274.2	86.73	61.810		
12,135.7	7,441.0	7,486.0	7,486.0	77.5	13.0	-90.00	1,253.3	2,230.3	5,396.0	5,308.6	87.35	61.778		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #1A													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	32.0	32.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6					
100.0	100.0	132.0	132.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.38	6,233.583		
200.0	200.0	232.0	232.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,258.127		
300.0	300.0	332.0	332.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,204.830		
400.0	400.0	432.0	432.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,665.039		
500.0	499.9	531.9	531.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,336.381		
600.0	599.7	631.7	631.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.12	1,114.933		
700.0	699.4	731.4	731.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	955.361		
800.0	798.9	830.9	830.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.5	2.82	834.731		
900.0	898.3	930.3	930.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	740.196		
1,000.0	997.4	1,029.4	1,029.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.50	663.999		
1,100.0	1,096.3	1,128.3	1,128.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	601.179		
1,200.0	1,194.9	1,226.9	1,226.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	548.416		
1,300.0	1,293.3	1,325.3	1,325.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.52	503.403		
1,400.0	1,391.2	1,423.2	1,423.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.488		
1,500.0	1,488.9	1,520.9	1,520.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.7	5.19	430.456		
1,600.0	1,586.1	1,618.1	1,618.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.395		
1,700.0	1,682.9	1,714.9	1,714.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.604		
1,800.0	1,779.3	1,811.3	1,811.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.18	349.539		
1,900.0	1,875.2	1,907.2	1,907.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.769		
2,000.0	1,970.8	2,002.8	2,002.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.217		
2,100.0	2,066.4	2,098.4	2,098.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.612		
2,200.0	2,162.1	2,194.1	2,194.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.690		
2,300.0	2,257.7	2,289.7	2,289.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.232		
2,400.0	2,353.3	2,385.3	2,385.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	242.055		
2,500.0	2,448.9	2,480.9	2,480.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	229.007		
2,600.0	2,544.6	2,576.6	2,576.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.956		
2,700.0	2,640.2	2,672.2	2,672.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.794		
2,800.0	2,735.8	2,767.8	2,767.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.424		
2,900.0	2,831.5	2,863.5	2,863.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.766		
3,000.0	2,927.1	2,959.1	2,959.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.748		
3,100.0	3,022.7	3,054.7	3,054.7	12.2	5.3	1.99	1,173.1	2,073.8	1,781.7	1,771.1	10.59	168.308		
3,200.0	3,118.4	3,150.4	3,150.4	12.8	5.5	2.02	1,173.1	2,073.8	1,752.5	1,741.5	10.93	160.394		
3,300.0	3,214.0	3,246.0	3,246.0	13.3	5.7	2.06	1,173.1	2,073.8	1,723.3	1,712.0	11.27	152.956		
3,400.0	3,309.6	3,341.6	3,341.6	13.9	5.8	2.09	1,173.1	2,073.8	1,694.0	1,682.4	11.61	145.954		
3,500.0	3,405.3	3,437.3	3,437.3	14.4	6.0	2.13	1,173.1	2,073.8	1,664.8	1,652.9	11.95	139.350		
3,600.0	3,500.9	3,532.9	3,532.9	15.0	6.2	2.17	1,173.1	2,073.8	1,635.6	1,623.3	12.29	133.110		
3,700.0	3,596.5	3,628.5	3,628.5	15.5	6.3	2.21	1,173.1	2,073.8	1,606.4	1,593.7	12.63	127.207		
3,800.0	3,692.1	3,724.1	3,724.1	16.1	6.5	2.25	1,173.1	2,073.8	1,577.2	1,564.2	12.97	121.612		
3,900.0	3,787.8	3,819.8	3,819.8	16.7	6.7	2.29	1,173.1	2,073.8	1,547.9	1,534.6	13.31	116.302		
4,000.0	3,883.4	4,423.3	4,404.2	17.2	8.0	-0.50	1,188.4	1,963.2	1,511.8	1,497.2	14.58	103.684		
4,100.0	3,979.0	4,501.6	4,475.8	17.8	8.4	-1.48	1,192.8	1,931.9	1,453.3	1,438.4	14.97	97.084		
4,200.0	4,074.7	4,579.9	4,547.4	18.3	8.7	-2.54	1,197.1	1,900.6	1,395.2	1,379.8	15.40	90.612		
4,300.0	4,170.3	4,658.2	4,619.1	18.9	9.1	-3.68	1,201.5	1,869.3	1,337.5	1,321.6	15.87	84.291		
4,400.0	4,265.9	4,736.5	4,690.7	19.4	9.5	-4.91	1,205.8	1,838.0	1,280.2	1,263.8	16.39	78.124		
4,500.0	4,361.6	4,814.9	4,762.4	20.0	9.9	-6.25	1,210.1	1,806.7	1,223.3	1,206.4	16.96	72.117		
4,600.0	4,457.2	4,893.2	4,834.0	20.5	10.3	-7.70	1,214.5	1,775.4	1,167.0	1,149.4	17.61	66.274		
4,700.0	4,552.8	4,971.5	4,905.6	21.1	10.8	-9.29	1,218.8	1,744.1	1,111.3	1,093.0	18.34	60.608		
4,800.0	4,648.5	5,049.8	4,977.3	21.6	11.3	-11.02	1,223.1	1,712.8	1,056.4	1,037.3	19.16	55.144		
4,900.0	4,744.1	5,128.1	5,048.9	22.2	11.7	-12.91	1,227.5	1,681.5	1,002.3	982.2	20.09	49.902		
5,000.0	4,839.7	5,206.4	5,120.6	22.7	12.2	-14.98	1,231.8	1,650.2	949.2	928.1	21.14	44.907		
5,100.0	4,935.3	5,284.7	5,192.2	23.3	12.7	-17.26	1,236.1	1,618.9	897.3	875.0	22.33	40.184		

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 1G-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 1G-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 #1A														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			
5,204.0	5,034.8	5,366.1	5,266.7	23.9	13.3	-19.88	1,240.7	1,586.3	844.8	821.0	23.73	35.593			
5,300.0	5,126.8	5,441.7	5,335.9	24.4	13.8	-22.32	1,244.8	1,556.1	798.5	773.4	25.17	31.731			
5,400.0	5,223.2	5,521.4	5,408.8	24.9	14.3	-25.10	1,249.3	1,524.2	753.7	726.9	26.80	28.124			
5,500.0	5,320.0	5,602.1	5,482.7	25.3	14.9	-28.12	1,253.7	1,492.0	712.5	683.9	28.57	24.938			
5,600.0	5,417.2	5,683.7	5,557.3	25.8	15.4	-31.39	1,258.2	1,459.3	675.4	644.9	30.47	22.164			
5,700.0	5,514.8	5,766.2	5,632.8	26.2	16.0	-34.90	1,262.8	1,426.4	642.7	610.2	32.48	19.788			
5,800.0	5,612.8	5,849.5	5,709.0	26.5	16.6	-38.66	1,267.4	1,393.1	614.8	580.3	34.56	17.791			
5,900.0	5,711.1	5,933.7	5,786.1	26.9	17.2	-42.63	1,272.1	1,359.4	592.0	555.4	36.67	16.147			
6,000.0	5,809.7	6,018.7	5,863.8	27.2	17.8	-46.79	1,276.8	1,325.4	574.6	535.9	38.75	14.829			
6,100.0	5,908.6	6,104.5	5,942.4	27.5	18.4	-51.08	1,281.5	1,291.1	562.7	522.0	40.75	13.807			
6,200.0	6,007.7	6,191.1	6,021.6	27.8	19.0	-55.45	1,286.3	1,256.5	556.3	513.7	42.62	13.052			
6,270.6	6,077.8	6,252.7	6,077.9	27.9	19.5	-58.55	1,289.8	1,231.9	555.0	511.2	43.83	12.663 CC			
6,300.0	6,107.1	6,278.4	6,101.5	28.0	19.6	-59.84	1,291.2	1,221.6	555.2	510.9	44.31	12.531 ES			
6,400.0	6,206.6	6,366.5	6,182.0	28.2	20.3	-64.16	1,296.1	1,186.4	559.2	513.4	45.77	12.217			
6,500.0	6,306.3	6,455.2	6,263.2	28.4	20.9	-68.36	1,301.0	1,150.9	567.7	520.7	47.00	12.080 SF			
6,600.0	6,406.1	6,551.6	6,352.3	28.6	21.6	-72.44	1,306.7	1,114.8	580.0	532.1	47.96	12.094			
6,700.0	6,506.0	6,652.0	6,458.9	28.7	22.0	-75.38	1,315.2	1,087.6	593.1	544.5	48.52	12.224			
6,800.0	6,606.0	6,779.9	6,575.6	28.8	22.3	-76.45	1,326.5	1,076.9	604.3	555.6	48.76	12.394			
6,904.0	6,710.0	6,902.9	6,697.3	28.9	22.2	-16.33	1,340.5	1,086.3	613.2	564.4	48.74	12.580			
6,918.8	6,724.8	6,920.0	6,714.0	28.9	22.2	-16.01	1,342.6	1,089.3	614.2	565.5	48.71	12.610			
6,950.0	6,756.0	6,955.3	6,748.2	28.9	22.1	164.72	1,347.1	1,096.6	617.0	568.4	48.57	12.701			
7,000.0	6,805.8	7,009.4	6,799.9	28.9	21.9	166.16	1,354.1	1,111.2	623.8	575.7	48.12	12.964			
7,050.0	6,855.2	7,060.0	6,847.0	28.8	21.7	167.81	1,361.0	1,128.3	634.1	586.7	47.39	13.380			
7,100.0	6,904.0	7,106.5	6,889.1	28.8	21.5	169.56	1,367.5	1,146.9	648.0	601.5	46.41	13.963			
7,150.0	6,952.0	7,148.8	6,926.2	28.7	21.2	171.34	1,373.5	1,166.2	665.7	620.5	45.19	14.731			
7,200.0	6,998.8	7,186.8	6,958.6	28.6	21.0	173.08	1,379.0	1,185.4	687.5	643.7	43.78	15.704			
7,250.0	7,044.3	7,220.7	6,986.5	28.5	20.7	174.75	1,383.9	1,204.0	713.2	671.0	42.20	16.901			
7,300.0	7,088.2	7,250.0	7,009.9	28.3	20.5	176.30	1,388.2	1,221.1	742.8	702.3	40.50	18.341			
7,350.0	7,130.4	7,276.9	7,030.8	28.2	20.3	177.87	1,392.2	1,237.6	776.0	737.3	38.66	20.071			
7,400.0	7,170.6	7,300.0	7,048.1	28.0	20.1	179.36	1,395.6	1,252.4	812.5	775.7	36.75	22.110			
7,450.0	7,208.6	7,319.6	7,062.5	27.8	19.9	-179.17	1,398.6	1,265.4	851.9	817.1	34.76	24.507			
7,500.0	7,244.3	7,336.5	7,074.6	27.7	19.8	-177.64	1,401.1	1,277.0	893.8	861.1	32.72	27.315			
7,550.0	7,277.4	7,350.0	7,084.0	27.5	19.7	-176.03	1,403.1	1,286.4	937.9	907.3	30.67	30.585			
7,600.0	7,307.8	7,362.7	7,092.8	27.3	19.5	-173.98	1,405.0	1,295.4	983.8	955.2	28.58	34.422			
7,650.0	7,335.4	7,372.3	7,099.3	27.2	19.4	-171.40	1,406.4	1,302.4	1,031.1	1,004.6	26.54	38.852			
7,700.0	7,360.0	7,379.9	7,104.3	27.0	19.4	-167.57	1,407.5	1,307.9	1,079.5	1,054.9	24.60	43.875			
7,750.0	7,381.6	7,385.5	7,108.0	26.9	19.3	-160.63	1,408.4	1,312.0	1,128.7	1,105.7	23.00	49.071			
7,800.0	7,399.9	7,389.2	7,110.5	26.8	19.3	-143.09	1,408.9	1,314.7	1,178.4	1,155.4	23.05	51.117			
7,850.0	7,414.9	7,391.2	7,111.8	26.7	19.3	-82.71	1,409.2	1,316.2	1,228.3	1,200.3	28.01	43.856			
7,900.0	7,426.6	7,391.5	7,111.9	26.6	19.3	-31.58	1,409.3	1,316.4	1,278.2	1,256.5	21.74	58.786			
7,950.0	7,434.9	7,390.1	7,111.0	26.5	19.3	-17.08	1,409.1	1,315.4	1,327.9	1,309.0	18.84	70.499			
8,000.0	7,439.7	7,387.1	7,109.1	26.5	19.3	-11.05	1,408.6	1,313.1	1,377.1	1,359.3	17.72	77.709			
8,043.8	7,441.0	7,383.1	7,106.4	26.5	19.3	-8.06	1,408.0	1,310.2	1,419.7	1,402.2	17.46	81.326			
8,100.0	7,441.0	7,377.2	7,102.5	26.6	19.4	-7.32	1,407.1	1,305.9	1,474.0	1,456.4	17.54	84.040			
8,200.0	7,441.0	7,366.6	7,095.4	26.7	19.5	-6.03	1,405.6	1,298.2	1,570.8	1,553.1	17.70	88.741			
8,300.0	7,441.0	7,350.0	7,084.0	27.0	19.7	-4.13	1,403.1	1,286.4	1,668.0	1,650.2	17.84	93.512			
8,400.0	7,441.0	7,350.0	7,084.0	27.4	19.7	-4.13	1,403.1	1,286.4	1,765.4	1,747.3	18.10	97.525			
8,500.0	7,441.0	7,334.9	7,073.5	27.8	19.8	-2.52	1,400.8	1,275.9	1,863.0	1,844.7	18.28	101.934			
8,600.0	7,441.0	7,324.4	7,065.9	28.4	19.9	-1.46	1,399.3	1,268.7	1,960.7	1,942.2	18.49	106.047			
8,700.0	7,441.0	7,313.8	7,058.3	29.1	20.0	-0.45	1,397.7	1,261.6	2,058.6	2,039.9	18.71	110.019			
8,800.0	7,441.0	7,300.0	7,048.1	29.9	20.1	0.79	1,395.6	1,252.4	2,156.6	2,137.7	18.94	113.869			
8,900.0	7,441.0	7,300.0	7,048.1	30.8	20.1	0.79	1,395.6	1,252.4	2,254.8	2,235.6	19.19	117.489			

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 1G-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 1G-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 #1A											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)				
9,000.0	7,441.0	7,282.3	7,034.8	31.7	20.2	2.26	1,393.0	1,241.0	2,352.9	2,333.5	19.44	121.017		
9,100.0	7,441.0	7,271.8	7,026.8	32.7	20.3	3.07	1,391.5	1,234.4	2,451.2	2,431.5	19.71	124.355		
9,200.0	7,441.0	7,261.3	7,018.8	33.8	20.4	3.82	1,389.9	1,227.9	2,549.6	2,529.6	19.99	127.520		
9,300.0	7,441.0	7,250.0	7,009.9	34.9	20.5	4.60	1,388.2	1,221.1	2,648.0	2,627.7	20.29	130.483		
9,400.0	7,441.0	7,240.6	7,002.4	36.1	20.6	5.20	1,386.8	1,215.4	2,746.5	2,725.9	20.60	133.313		
9,500.0	7,441.0	7,230.2	6,994.2	37.3	20.7	5.83	1,385.3	1,209.4	2,845.0	2,824.1	20.93	135.939		
9,600.0	7,441.0	7,219.9	6,985.9	38.6	20.7	6.41	1,383.8	1,203.5	2,943.6	2,922.3	21.27	138.391		
9,700.0	7,441.0	7,209.7	6,977.5	39.9	20.8	6.96	1,382.3	1,197.8	3,042.2	3,020.6	21.63	140.673		
9,800.0	7,441.0	7,200.0	6,969.5	41.2	20.9	7.45	1,380.9	1,192.5	3,140.9	3,118.9	21.99	142.819		
9,900.0	7,441.0	7,189.4	6,960.8	42.6	21.0	7.95	1,379.3	1,186.8	3,239.6	3,217.2	22.38	144.757		
10,000.0	7,441.0	7,179.4	6,952.3	44.0	21.0	8.39	1,377.9	1,181.5	3,338.3	3,315.6	22.78	146.576		
10,100.0	7,441.0	7,169.4	6,943.9	45.4	21.1	8.80	1,376.4	1,176.4	3,437.1	3,413.9	23.18	148.264		
10,200.0	7,441.0	7,159.4	6,935.4	46.9	21.2	9.18	1,375.0	1,171.4	3,535.9	3,512.3	23.60	149.830		
10,300.0	7,441.0	7,150.0	6,927.3	48.4	21.2	9.52	1,373.6	1,166.8	3,634.7	3,610.7	24.02	151.313		
10,400.0	7,441.0	7,139.8	6,918.4	49.8	21.3	9.86	1,372.2	1,161.9	3,733.6	3,709.1	24.46	152.640		
10,500.0	7,441.0	7,130.1	6,910.0	51.3	21.3	10.16	1,370.8	1,157.4	3,832.4	3,807.5	24.90	153.907		
10,600.0	7,441.0	7,120.5	6,901.5	52.9	21.4	10.43	1,369.4	1,153.1	3,931.3	3,906.0	25.35	155.097		
10,700.0	7,441.0	7,110.9	6,893.0	54.4	21.5	10.69	1,368.1	1,148.9	4,030.2	4,004.4	25.80	156.219		
10,800.0	7,441.0	7,100.0	6,883.3	55.9	21.5	10.95	1,366.5	1,144.2	4,129.2	4,102.9	26.27	157.191		
10,900.0	7,441.0	7,100.0	6,883.3	57.5	21.5	10.95	1,366.5	1,144.2	4,228.1	4,201.5	26.63	158.774		
11,000.0	7,441.0	7,082.8	6,867.8	59.1	21.6	11.32	1,364.1	1,137.1	4,327.1	4,299.9	27.17	159.262		
11,100.0	7,441.0	7,073.7	6,859.5	60.7	21.7	11.50	1,362.9	1,133.5	4,426.1	4,398.4	27.63	160.194		
11,200.0	7,441.0	7,064.6	6,851.2	62.2	21.7	11.66	1,361.6	1,130.0	4,525.1	4,497.0	28.09	161.097		
11,300.0	7,441.0	7,050.0	6,837.8	63.8	21.8	11.88	1,359.6	1,124.7	4,624.1	4,595.5	28.59	161.725		
11,400.0	7,441.0	7,050.0	6,837.8	65.4	21.8	11.88	1,359.6	1,124.7	4,723.1	4,694.1	28.98	162.983		
11,500.0	7,441.0	7,037.8	6,826.5	67.1	21.8	12.04	1,357.9	1,120.4	4,822.2	4,792.7	29.46	163.677		
11,600.0	7,441.0	7,029.1	6,818.4	68.7	21.9	12.14	1,356.8	1,117.5	4,921.2	4,891.3	29.91	164.509		
11,700.0	7,441.0	7,020.5	6,810.3	70.3	21.9	12.23	1,355.6	1,114.7	5,020.3	4,989.9	30.36	165.332		
11,800.0	7,441.0	7,012.0	6,802.3	71.9	21.9	12.31	1,354.5	1,112.0	5,119.4	5,088.6	30.81	166.151		
11,900.0	7,441.0	7,000.0	6,791.0	73.6	22.0	12.40	1,352.9	1,108.4	5,218.5	5,187.2	31.27	166.883		
12,000.0	7,441.0	7,000.0	6,791.0	75.2	22.0	12.40	1,352.9	1,108.4	5,317.6	5,285.9	31.67	167.885		
12,100.0	7,441.0	6,987.0	6,778.6	76.9	22.0	12.47	1,351.2	1,104.7	5,416.7	5,384.6	32.13	168.597		
12,135.7	7,441.0	6,984.1	6,775.9	77.5	22.0	12.49	1,350.8	1,103.9	5,452.1	5,419.8	32.28	168.888		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #1B													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	32.0	32.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6					
100.0	100.0	132.0	132.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.38	6,233.583		
200.0	200.0	232.0	232.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,258.127		
300.0	300.0	332.0	332.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,204.830		
400.0	400.0	432.0	432.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,665.039		
500.0	499.9	531.9	531.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,336.381		
600.0	599.7	631.7	631.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.12	1,114.933		
700.0	699.4	731.4	731.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	955.361		
800.0	798.9	830.9	830.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.5	2.82	834.731		
900.0	898.3	930.3	930.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	740.196		
1,000.0	997.4	1,029.4	1,029.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.50	663.999		
1,100.0	1,096.3	1,128.3	1,128.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	601.179		
1,200.0	1,194.9	1,226.9	1,226.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	548.416		
1,300.0	1,293.3	1,325.3	1,325.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.52	503.403		
1,400.0	1,391.2	1,423.2	1,423.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.488		
1,500.0	1,488.9	1,520.9	1,520.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.7	5.19	430.456		
1,600.0	1,586.1	1,618.1	1,618.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.395		
1,700.0	1,682.9	1,714.9	1,714.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.604		
1,800.0	1,779.3	1,811.3	1,811.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.18	349.539		
1,900.0	1,875.2	1,907.2	1,907.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.769		
2,000.0	1,970.8	2,002.8	2,002.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.217		
2,100.0	2,066.4	2,098.4	2,098.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.612		
2,200.0	2,162.1	2,194.1	2,194.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.690		
2,300.0	2,257.7	2,289.7	2,289.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.232		
2,400.0	2,353.3	2,385.3	2,385.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	242.055		
2,500.0	2,448.9	2,480.9	2,480.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	229.007		
2,600.0	2,544.6	2,576.6	2,576.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.956		
2,700.0	2,640.2	2,672.2	2,672.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.794		
2,800.0	2,735.8	2,767.8	2,767.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.424		
2,900.0	2,831.5	2,863.5	2,863.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.766		
3,000.0	2,927.1	2,959.1	2,959.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.748		
3,100.0	3,022.7	3,054.7	3,054.7	12.2	5.3	1.99	1,173.1	2,073.8	1,781.7	1,771.1	10.59	168.308		
3,200.0	3,118.4	3,150.4	3,150.4	12.8	5.5	2.02	1,173.1	2,073.8	1,752.5	1,741.5	10.93	160.394		
3,300.0	3,214.0	3,246.0	3,246.0	13.3	5.7	2.06	1,173.1	2,073.8	1,723.3	1,712.0	11.27	152.956		
3,400.0	3,309.6	3,341.6	3,341.6	13.9	5.8	2.09	1,173.1	2,073.8	1,694.0	1,682.4	11.61	145.954		
3,500.0	3,405.3	3,437.3	3,437.3	14.4	6.0	2.13	1,173.1	2,073.8	1,664.8	1,652.9	11.95	139.350		
3,600.0	3,500.9	3,532.9	3,532.9	15.0	6.2	2.17	1,173.1	2,073.8	1,635.6	1,623.3	12.29	133.110		
3,700.0	3,596.5	3,628.5	3,628.5	15.5	6.3	2.21	1,173.1	2,073.8	1,606.4	1,593.7	12.63	127.207		
3,800.0	3,692.1	3,724.1	3,724.1	16.1	6.5	2.25	1,173.1	2,073.8	1,577.2	1,564.2	12.97	121.612		
3,900.0	3,787.8	3,819.8	3,819.8	16.7	6.7	2.29	1,173.1	2,073.8	1,547.9	1,534.6	13.31	116.302		
4,000.0	3,883.4	3,915.4	3,915.4	17.2	6.8	2.34	1,173.1	2,073.8	1,518.7	1,505.1	13.65	111.257		
4,100.0	3,979.0	4,348.1	4,338.7	17.8	7.7	0.40	1,189.7	2,003.6	1,473.5	1,459.0	14.58	101.083		
4,200.0	4,074.7	4,433.0	4,419.6	18.3	8.0	-0.42	1,195.6	1,978.7	1,423.9	1,408.9	14.94	95.313		
4,300.0	4,170.3	4,517.8	4,500.5	18.9	8.2	-1.29	1,201.5	1,953.8	1,374.5	1,359.1	15.32	89.696		
4,400.0	4,265.9	4,602.7	4,581.4	19.4	8.5	-2.22	1,207.4	1,928.9	1,325.3	1,309.6	15.73	84.229		
4,500.0	4,361.6	4,687.6	4,662.3	20.0	8.8	-3.22	1,213.3	1,903.9	1,276.5	1,260.3	16.18	78.904		
4,600.0	4,457.2	4,772.4	4,743.2	20.5	9.1	-4.29	1,219.2	1,879.0	1,228.0	1,211.3	16.66	73.723		
4,700.0	4,552.8	4,857.3	4,824.1	21.1	9.5	-5.45	1,225.1	1,854.1	1,179.8	1,162.7	17.18	68.686		
4,800.0	4,648.5	4,942.1	4,905.0	21.6	9.8	-6.69	1,231.0	1,829.2	1,132.1	1,114.4	17.75	63.794		
4,900.0	4,744.1	5,027.0	4,985.9	22.2	10.2	-8.04	1,236.9	1,804.3	1,084.9	1,066.6	18.37	59.048		
5,000.0	4,839.7	5,111.8	5,066.8	22.7	10.5	-9.50	1,242.8	1,779.4	1,038.3	1,019.2	19.07	54.455		
5,100.0	4,935.3	5,196.7	5,147.7	23.3	10.9	-11.09	1,248.7	1,754.5	992.2	972.4	19.84	50.021		

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 1G-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 1G-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 #1B													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		
5,204.0	5,034.8	5,284.9	5,231.9	23.9	11.3	-12.88	1,254.8	1,728.6	945.1	924.4	20.73	45.589		
5,300.0	5,126.8	5,366.8	5,309.9	24.4	11.7	-14.57	1,260.5	1,704.5	903.1	881.4	21.66	41.688		
5,400.0	5,223.2	5,452.8	5,392.0	24.9	12.1	-16.45	1,266.5	1,679.3	861.8	839.1	22.72	37.925		
5,500.0	5,320.0	5,539.7	5,474.8	25.3	12.5	-18.47	1,272.5	1,653.8	823.1	799.2	23.88	34.470		
5,600.0	5,417.2	5,627.3	5,558.3	25.8	13.0	-20.64	1,278.6	1,628.0	787.1	762.0	25.13	31.325		
5,700.0	5,514.8	5,715.7	5,642.6	26.2	13.4	-22.95	1,284.7	1,602.1	754.0	727.5	26.47	28.487		
5,800.0	5,612.8	5,804.8	5,727.5	26.5	13.8	-25.41	1,290.9	1,575.9	723.9	696.0	27.89	25.951		
5,900.0	5,711.1	5,894.6	5,813.1	26.9	14.3	-28.00	1,297.2	1,549.6	696.9	667.6	29.40	23.708		
6,000.0	5,809.7	5,985.0	5,899.3	27.2	14.7	-30.73	1,303.5	1,523.0	673.3	642.3	30.96	21.746		
6,100.0	5,908.6	6,076.1	5,986.1	27.5	15.2	-33.57	1,309.8	1,496.3	653.0	620.4	32.57	20.051		
6,200.0	6,007.7	6,167.8	6,073.6	27.8	15.7	-36.51	1,316.1	1,469.4	636.1	601.9	34.19	18.605		
6,300.0	6,107.1	6,260.0	6,161.5	28.0	16.2	-39.52	1,322.6	1,442.3	622.6	586.8	35.81	17.389		
6,400.0	6,206.6	6,352.8	6,250.0	28.2	16.7	-42.58	1,329.0	1,415.0	612.6	575.2	37.39	16.384		
6,500.0	6,306.3	6,446.1	6,339.0	28.4	17.1	-45.64	1,335.5	1,387.6	605.9	567.0	38.92	15.570		
6,600.0	6,406.1	6,527.4	6,416.9	28.6	17.5	-48.13	1,341.4	1,365.5	603.1	563.0	40.11	15.038		
6,600.5	6,406.6	6,527.8	6,417.3	28.6	17.5	-48.14	1,341.4	1,365.4	603.1	563.0	40.11	15.036 CC, ES		
6,700.0	6,506.0	6,606.3	6,494.3	28.7	17.8	-49.78	1,348.1	1,351.8	605.7	564.8	40.90	14.810 SF		
6,800.0	6,606.0	6,687.9	6,575.2	28.8	17.9	-50.58	1,356.1	1,346.7	612.7	571.4	41.33	14.825		
6,904.0	6,710.0	6,772.8	6,659.5	28.9	18.0	8.64	1,365.4	1,351.2	624.3	582.9	41.40	15.079		
6,918.8	6,724.8	6,784.8	6,671.3	28.9	18.0	8.75	1,366.8	1,352.7	626.3	584.9	41.38	15.134		
6,950.0	6,756.0	6,809.6	6,695.7	28.9	17.9	-170.91	1,369.8	1,356.3	631.3	590.1	41.25	15.306		
7,000.0	6,805.8	6,850.0	6,735.0	28.9	17.9	-170.17	1,374.8	1,364.0	642.8	602.0	40.83	15.744		
7,050.0	6,855.2	6,885.7	6,769.3	28.8	17.8	-169.31	1,379.3	1,372.6	658.4	618.2	40.19	16.382		
7,100.0	6,904.0	6,920.9	6,802.8	28.8	17.7	-168.26	1,383.9	1,382.8	678.0	638.7	39.34	17.237		
7,150.0	6,952.0	6,950.0	6,829.9	28.7	17.7	-167.14	1,387.8	1,392.4	701.5	663.2	38.33	18.303		
7,200.0	6,998.8	6,984.6	6,861.7	28.6	17.5	-165.68	1,392.5	1,405.3	728.7	691.6	37.07	19.656		
7,250.0	7,044.3	7,012.8	6,887.1	28.5	17.4	-164.13	1,396.4	1,417.0	759.3	723.6	35.71	21.265		
7,300.0	7,088.2	7,038.5	6,909.8	28.3	17.3	-162.38	1,400.1	1,428.5	793.1	758.9	34.21	23.180		
7,350.0	7,130.4	7,061.8	6,930.0	28.2	17.2	-160.35	1,403.4	1,439.5	829.7	797.1	32.62	25.434		
7,400.0	7,170.6	7,082.6	6,947.7	28.0	17.1	-157.98	1,406.4	1,450.0	869.0	838.0	30.96	28.066		
7,450.0	7,208.6	7,100.0	6,962.3	27.8	17.0	-155.16	1,408.9	1,459.2	910.5	881.2	29.29	31.088		
7,500.0	7,244.3	7,117.4	6,976.6	27.7	16.9	-151.60	1,411.4	1,468.7	953.9	926.3	27.63	34.523		
7,550.0	7,277.4	7,131.4	6,988.0	27.5	16.9	-147.11	1,413.4	1,476.6	999.0	972.8	26.14	38.216		
7,600.0	7,307.8	7,150.0	7,002.9	27.3	16.8	-141.19	1,416.1	1,487.4	1,045.4	1,020.4	25.00	41.815		
7,650.0	7,335.4	7,150.0	7,002.9	27.2	16.8	-133.06	1,416.1	1,487.4	1,092.8	1,068.2	24.57	44.482		
7,700.0	7,360.0	7,161.5	7,011.9	27.0	16.7	-122.02	1,417.8	1,494.3	1,141.0	1,115.8	25.17	45.331		
7,750.0	7,381.6	7,167.7	7,016.7	26.9	16.7	-106.96	1,418.7	1,498.1	1,189.7	1,163.0	26.70	44.566		
7,800.0	7,399.9	7,172.2	7,020.2	26.8	16.7	-88.48	1,419.4	1,500.9	1,238.7	1,210.8	27.87	44.445		
7,850.0	7,414.9	7,174.9	7,022.3	26.7	16.6	-69.62	1,419.8	1,502.6	1,287.7	1,260.4	27.25	47.248		
7,900.0	7,426.6	7,176.0	7,023.2	26.6	16.6	-53.78	1,420.0	1,503.3	1,336.5	1,311.4	25.13	53.176		
7,950.0	7,434.9	7,175.5	7,022.8	26.5	16.6	-41.98	1,419.9	1,502.9	1,385.0	1,362.2	22.77	60.829		
8,000.0	7,439.7	7,173.3	7,021.1	26.5	16.6	-33.48	1,419.6	1,501.6	1,432.9	1,412.0	20.93	68.468		
8,043.8	7,441.0	7,170.1	7,018.6	26.5	16.7	-27.97	1,419.1	1,499.6	1,474.3	1,454.4	19.94	73.941		
8,100.0	7,441.0	7,165.3	7,014.9	26.6	16.7	-27.48	1,418.4	1,496.6	1,527.1	1,507.1	19.97	76.469		
8,200.0	7,441.0	7,150.0	7,002.9	26.7	16.8	-25.98	1,416.1	1,487.4	1,621.5	1,601.6	19.94	81.320		
8,300.0	7,441.0	7,150.0	7,002.9	27.0	16.8	-25.98	1,416.1	1,487.4	1,716.5	1,696.2	20.26	84.715		
8,400.0	7,441.0	7,139.4	6,994.4	27.4	16.8	-24.97	1,414.6	1,481.2	1,811.9	1,791.5	20.41	88.767		
8,500.0	7,441.0	7,130.8	6,987.5	27.8	16.9	-24.17	1,413.3	1,476.2	1,907.8	1,887.1	20.63	92.466		
8,600.0	7,441.0	7,122.3	6,980.6	28.4	16.9	-23.40	1,412.1	1,471.4	2,004.0	1,983.1	20.87	96.003		
8,700.0	7,441.0	7,113.8	6,973.6	29.1	17.0	-22.65	1,410.9	1,466.7	2,100.5	2,079.3	21.13	99.402		
8,800.0	7,441.0	7,100.0	6,962.3	29.9	17.0	-21.47	1,408.9	1,459.2	2,197.2	2,175.9	21.29	103.214		
8,900.0	7,441.0	7,100.0	6,962.3	30.8	17.0	-21.47	1,408.9	1,459.2	2,294.2	2,272.4	21.74	105.540		

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 1G-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 1G-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 #1B													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	7,441.0	7,088.5	6,952.7	31.7	17.1	-20.52	1,407.2	1,453.1	2,391.4	2,369.4	21.95	108.967		
9,100.0	7,441.0	7,080.2	6,945.6	32.7	17.1	-19.86	1,406.0	1,448.8	2,488.7	2,466.5	22.22	112.000		
9,200.0	7,441.0	7,071.9	6,938.6	33.8	17.2	-19.22	1,404.8	1,444.6	2,586.2	2,563.7	22.49	114.978		
9,300.0	7,441.0	7,063.7	6,931.6	34.9	17.2	-18.59	1,403.6	1,440.5	2,683.8	2,661.1	22.76	117.911		
9,400.0	7,441.0	7,050.0	6,919.8	36.1	17.3	-17.60	1,401.7	1,433.8	2,781.6	2,758.7	22.90	121.474		
9,500.0	7,441.0	7,050.0	6,919.8	37.3	17.3	-17.60	1,401.7	1,433.8	2,879.5	2,856.2	23.35	123.330		
9,600.0	7,441.0	7,050.0	6,919.8	38.6	17.3	-17.60	1,401.7	1,433.8	2,977.5	2,953.7	23.80	125.084		
9,700.0	7,441.0	7,031.2	6,903.4	39.9	17.4	-16.32	1,399.0	1,425.1	3,075.6	3,051.8	23.78	129.308		
9,800.0	7,441.0	7,023.3	6,896.4	41.2	17.4	-15.81	1,397.9	1,421.5	3,173.7	3,149.7	24.03	132.095		
9,900.0	7,441.0	7,015.4	6,889.3	42.6	17.4	-15.31	1,396.8	1,418.1	3,272.0	3,247.7	24.26	134.864		
10,000.0	7,441.0	7,000.0	6,875.6	44.0	17.5	-14.39	1,394.7	1,411.6	3,370.3	3,346.0	24.31	138.641		
10,100.0	7,441.0	7,000.0	6,875.6	45.4	17.5	-14.39	1,394.7	1,411.6	3,468.6	3,443.9	24.72	140.311		
10,200.0	7,441.0	7,000.0	6,875.6	46.9	17.5	-14.39	1,394.7	1,411.6	3,567.1	3,542.0	25.14	141.913		
10,300.0	7,441.0	6,984.4	6,861.4	48.4	17.5	-13.51	1,392.5	1,405.2	3,665.6	3,640.4	25.15	145.754		
10,400.0	7,441.0	6,976.8	6,854.5	49.8	17.6	-13.10	1,391.4	1,402.3	3,764.1	3,738.7	25.36	148.431		
10,500.0	7,441.0	6,969.2	6,847.6	51.3	17.6	-12.71	1,390.4	1,399.4	3,862.7	3,837.1	25.57	151.089		
10,600.0	7,441.0	6,961.8	6,840.8	52.9	17.6	-12.34	1,389.4	1,396.6	3,961.3	3,935.6	25.77	153.727		
10,700.0	7,441.0	6,950.0	6,829.9	54.4	17.7	-11.78	1,387.8	1,392.4	4,060.0	4,034.2	25.87	156.967		
10,800.0	7,441.0	6,950.0	6,829.9	55.9	17.7	-11.78	1,387.8	1,392.4	4,158.7	4,132.5	26.24	158.511		
10,900.0	7,441.0	6,950.0	6,829.9	57.5	17.7	-11.78	1,387.8	1,392.4	4,257.5	4,230.9	26.61	160.005		
11,000.0	7,441.0	6,932.6	6,813.7	59.1	17.7	-11.00	1,385.5	1,386.5	4,356.3	4,329.7	26.55	164.058		
11,100.0	7,441.0	6,925.4	6,807.0	60.7	17.7	-10.71	1,384.5	1,384.2	4,455.1	4,428.3	26.74	166.581		
11,200.0	7,441.0	6,918.4	6,800.4	62.2	17.7	-10.42	1,383.6	1,382.0	4,553.9	4,527.0	26.93	169.078		
11,300.0	7,441.0	6,900.0	6,783.0	63.8	17.8	-9.72	1,381.2	1,376.5	4,652.8	4,626.0	26.88	173.090		
11,400.0	7,441.0	6,900.0	6,783.0	65.4	17.8	-9.72	1,381.2	1,376.5	4,751.7	4,724.5	27.21	174.602		
11,500.0	7,441.0	6,900.0	6,783.0	67.1	17.8	-9.72	1,381.2	1,376.5	4,850.7	4,823.1	27.55	176.075		
11,600.0	7,441.0	6,900.0	6,783.0	68.7	17.8	-9.72	1,381.2	1,376.5	4,949.6	4,921.8	27.88	177.511		
11,700.0	7,441.0	6,884.1	6,767.9	70.3	17.8	-9.17	1,379.1	1,372.2	5,048.6	5,020.7	27.87	181.137		
11,800.0	7,441.0	6,877.5	6,761.5	71.9	17.8	-8.96	1,378.3	1,370.5	5,147.6	5,119.5	28.06	183.458		
11,900.0	7,441.0	6,870.9	6,755.2	73.6	17.9	-8.75	1,377.4	1,368.8	5,246.6	5,218.4	28.25	185.747		
12,000.0	7,441.0	6,864.4	6,749.0	75.2	17.9	-8.56	1,376.6	1,367.3	5,345.7	5,317.2	28.43	188.005		
12,100.0	7,441.0	6,850.0	6,735.0	76.9	17.9	-8.15	1,374.8	1,364.0	5,444.8	5,416.3	28.48	191.211		
12,135.7	7,441.0	6,850.0	6,735.0	77.5	17.9	-8.15	1,374.8	1,364.0	5,480.1	5,451.5	28.58	191.719		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #2B													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)				Between Centres (ft)	Between Ellipses (ft)	
0.0	0.0	41.0	41.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6					
100.0	100.0	141.0	141.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.39	6,177.168		
200.0	200.0	241.0	241.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,242.648		
300.0	300.0	341.0	341.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,197.729		
400.0	400.0	441.0	441.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,660.983		
500.0	499.9	540.9	540.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,333.764		
600.0	599.7	640.7	640.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.13	1,113.107		
700.0	699.4	740.4	740.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	954.017		
800.0	798.9	839.9	839.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.4	2.82	833.701		
900.0	898.3	939.3	939.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	739.384		
1,000.0	997.4	1,038.4	1,038.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.51	663.343		
1,100.0	1,096.3	1,137.3	1,137.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	600.638		
1,200.0	1,194.9	1,235.9	1,235.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	547.964		
1,300.0	1,293.3	1,334.3	1,334.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.53	503.020		
1,400.0	1,391.2	1,432.2	1,432.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.159		
1,500.0	1,488.9	1,529.9	1,529.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.6	5.20	430.172		
1,600.0	1,586.1	1,627.1	1,627.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.147		
1,700.0	1,682.9	1,723.9	1,723.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.387		
1,800.0	1,779.3	1,820.3	1,820.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.19	349.347		
1,900.0	1,875.2	1,916.2	1,916.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.598		
2,000.0	1,970.8	2,011.8	2,011.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.065		
2,100.0	2,066.4	2,107.4	2,107.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.476		
2,200.0	2,162.1	2,203.1	2,203.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.568		
2,300.0	2,257.7	2,298.7	2,298.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.122		
2,400.0	2,353.3	2,394.3	2,394.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	241.955		
2,500.0	2,448.9	2,489.9	2,489.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	228.916		
2,600.0	2,544.6	2,585.6	2,585.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.873		
2,700.0	2,640.2	2,681.2	2,681.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.718		
2,800.0	2,735.8	2,776.8	2,776.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.355		
2,900.0	2,831.5	2,872.5	2,872.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.702		
3,000.0	2,927.1	2,968.1	2,968.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.689		
3,100.0	3,022.7	3,063.7	3,063.7	12.2	5.3	1.99	1,173.1	2,073.8	1,781.7	1,771.1	10.59	168.255		
3,200.0	3,118.4	3,159.4	3,159.4	12.8	5.5	2.02	1,173.1	2,073.8	1,752.5	1,741.5	10.93	160.344		
3,300.0	3,214.0	3,255.0	3,255.0	13.3	5.7	2.06	1,173.1	2,073.8	1,723.3	1,712.0	11.27	152.910		
3,400.0	3,309.6	3,350.6	3,350.6	13.9	5.8	2.09	1,173.1	2,073.8	1,694.0	1,682.4	11.61	145.911		
3,500.0	3,405.3	3,446.3	3,446.3	14.4	6.0	2.13	1,173.1	2,073.8	1,664.8	1,652.9	11.95	139.310		
3,600.0	3,500.9	3,541.9	3,541.9	15.0	6.2	2.17	1,173.1	2,073.8	1,635.6	1,623.3	12.29	133.074		
3,700.0	3,596.5	3,637.5	3,637.5	15.5	6.3	2.21	1,173.1	2,073.8	1,606.4	1,593.7	12.63	127.172		
3,800.0	3,692.1	3,733.1	3,733.1	16.1	6.5	2.25	1,173.1	2,073.8	1,577.2	1,564.2	12.97	121.580		
3,900.0	3,787.8	3,828.8	3,828.8	16.7	6.7	2.29	1,173.1	2,073.8	1,547.9	1,534.6	13.31	116.273		
4,000.0	3,883.4	3,924.4	3,924.4	17.2	6.8	2.34	1,173.1	2,073.8	1,518.7	1,505.1	13.65	111.230		
4,100.0	3,979.0	4,052.5	4,052.5	17.8	7.1	2.39	1,173.0	2,073.3	1,489.4	1,475.3	14.05	106.004		
4,200.0	4,074.7	4,394.0	4,391.4	18.3	7.7	2.08	1,165.2	2,036.0	1,449.8	1,435.0	14.79	98.013		
4,300.0	4,170.3	4,482.2	4,477.9	18.9	7.9	1.89	1,161.7	2,018.8	1,402.9	1,387.8	15.11	92.833		
4,400.0	4,265.9	4,570.5	4,564.3	19.4	8.1	1.68	1,158.1	2,001.6	1,356.1	1,340.6	15.43	87.866		
4,500.0	4,361.6	4,658.7	4,650.8	20.0	8.3	1.45	1,154.5	1,984.5	1,309.2	1,293.5	15.76	83.097		
4,600.0	4,457.2	4,746.9	4,737.3	20.5	8.5	1.21	1,150.9	1,967.3	1,262.4	1,246.3	16.08	78.515		
4,700.0	4,552.8	4,835.1	4,823.7	21.1	8.8	0.95	1,147.3	1,950.1	1,215.6	1,199.2	16.40	74.108		
4,800.0	4,648.5	4,923.4	4,910.2	21.6	9.0	0.67	1,143.8	1,932.9	1,168.8	1,152.1	16.73	69.865		
4,900.0	4,744.1	5,011.6	4,996.7	22.2	9.2	0.36	1,140.2	1,915.8	1,122.1	1,105.0	17.06	65.778		
5,000.0	4,839.7	5,099.8	5,083.1	22.7	9.5	0.03	1,136.6	1,898.6	1,075.3	1,057.9	17.39	61.836		
5,100.0	4,935.3	5,188.1	5,169.6	23.3	9.8	-0.33	1,133.0	1,881.4	1,028.6	1,010.9	17.73	58.031		

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 1G-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 1G-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 #2B													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		
5,204.0	5,034.8	5,279.8	5,259.5	23.9	10.0	-0.74	1,129.3	1,863.6	980.1	962.0	18.08	54.212		
5,300.0	5,126.8	5,364.9	5,342.9	24.4	10.3	-1.15	1,125.9	1,847.0	936.0	917.6	18.45	50.734		
5,400.0	5,223.2	5,454.3	5,430.5	24.9	10.6	-1.61	1,122.2	1,829.6	891.7	872.9	18.84	47.325		
5,500.0	5,320.0	5,544.4	5,518.9	25.3	10.8	-2.12	1,118.6	1,812.1	849.1	829.8	19.24	44.123		
5,600.0	5,417.2	5,635.3	5,607.9	25.8	11.1	-2.67	1,114.9	1,794.4	808.0	788.4	19.65	41.116		
5,700.0	5,514.8	5,726.9	5,697.7	26.2	11.4	-3.26	1,111.2	1,776.5	768.7	748.6	20.07	38.294		
5,800.0	5,612.8	5,819.2	5,788.1	26.5	11.7	-3.92	1,107.4	1,758.6	731.0	710.5	20.51	35.646		
5,900.0	5,711.1	5,912.1	5,879.2	26.9	12.0	-4.62	1,103.7	1,740.5	695.0	674.1	20.96	33.165		
6,000.0	5,809.7	6,005.6	5,970.8	27.2	12.3	-5.40	1,099.9	1,722.3	660.8	639.4	21.43	30.841		
6,100.0	5,908.6	6,099.7	6,063.1	27.5	12.7	-6.23	1,096.0	1,704.0	628.3	606.4	21.92	28.670		
6,200.0	6,007.7	6,194.4	6,155.9	27.8	13.0	-7.14	1,092.2	1,685.5	597.7	575.2	22.43	26.643		
6,300.0	6,107.1	6,289.7	6,249.2	28.0	13.3	-8.12	1,088.3	1,667.0	568.8	545.9	22.98	24.755		
6,400.0	6,206.6	6,385.4	6,343.0	28.2	13.6	-9.17	1,084.5	1,648.4	541.8	518.3	23.56	23.002		
6,500.0	6,306.3	6,481.6	6,437.3	28.4	14.0	-10.30	1,080.6	1,629.6	516.7	492.5	24.17	21.379		
6,600.0	6,406.1	6,550.0	6,504.9	28.6	14.2	-10.95	1,078.4	1,619.4	496.9	472.3	24.61	20.192		
6,700.0	6,506.0	6,600.0	6,554.7	28.7	14.3	-11.17	1,077.5	1,615.9	486.1	461.2	24.90	19.518		
6,768.9	6,574.9	6,650.0	6,604.7	28.7	14.3	-11.19	1,077.3	1,615.8	484.0	458.9	25.09	19.290 CC, ES		
6,800.0	6,606.0	6,668.7	6,623.4	28.8	14.3	-11.14	1,077.4	1,616.7	484.5	459.3	25.15	19.265 SF		
6,904.0	6,710.0	6,734.0	6,688.3	28.9	14.3	48.35	1,078.5	1,623.4	492.7	467.4	25.29	19.481		
6,918.8	6,724.8	6,750.0	6,704.1	28.9	14.3	48.50	1,078.9	1,626.0	494.8	469.5	25.30	19.556		
6,950.0	6,756.0	6,762.4	6,716.3	28.9	14.3	-131.09	1,079.3	1,628.2	499.8	474.6	25.24	19.803		
7,000.0	6,805.8	6,800.0	6,753.0	28.9	14.3	-130.17	1,080.7	1,636.1	511.4	486.3	25.08	20.387		
7,050.0	6,855.2	6,821.7	6,774.0	28.8	14.2	-129.15	1,081.6	1,641.6	526.7	501.8	24.88	21.173		
7,100.0	6,904.0	6,850.0	6,801.1	28.8	14.2	-127.93	1,083.1	1,649.6	545.8	521.1	24.64	22.148		
7,150.0	6,952.0	6,876.3	6,826.0	28.7	14.1	-126.52	1,084.6	1,658.0	568.3	543.9	24.40	23.289		
7,200.0	6,998.8	6,900.0	6,848.1	28.6	14.1	-124.85	1,086.1	1,666.3	594.1	569.9	24.19	24.561		
7,250.0	7,044.3	6,924.8	6,871.0	28.5	14.0	-122.97	1,087.8	1,675.8	622.8	598.7	24.04	25.906		
7,300.0	7,088.2	6,950.0	6,893.8	28.3	13.9	-120.84	1,089.7	1,686.2	654.1	630.2	23.99	27.271		
7,350.0	7,130.4	6,966.4	6,908.5	28.2	13.9	-118.16	1,091.0	1,693.4	687.8	663.8	24.06	28.585		
7,400.0	7,170.6	6,984.5	6,924.5	28.0	13.8	-115.17	1,092.5	1,701.8	723.7	699.4	24.30	29.780		
7,450.0	7,208.6	7,000.0	6,938.0	27.8	13.8	-111.67	1,093.9	1,709.2	761.3	736.6	24.71	30.807		
7,500.0	7,244.3	7,015.3	6,951.2	27.7	13.8	-107.72	1,095.3	1,716.9	800.6	775.3	25.27	31.678		
7,550.0	7,277.4	7,028.1	6,962.1	27.5	13.7	-103.19	1,096.5	1,723.5	841.2	815.2	25.94	32.424		
7,600.0	7,307.8	7,050.0	6,980.5	27.3	13.6	-98.93	1,098.7	1,735.2	882.9	856.4	26.53	33.280		
7,650.0	7,335.4	7,050.0	6,980.5	27.2	13.6	-92.57	1,098.7	1,735.2	925.3	898.1	27.23	33.981		
7,700.0	7,360.0	7,050.0	6,980.5	27.0	13.6	-85.73	1,098.7	1,735.2	968.5	940.8	27.68	34.987		
7,750.0	7,381.6	7,063.0	6,991.2	26.9	13.6	-79.97	1,100.1	1,742.5	1,012.0	984.3	27.71	36.526		
7,800.0	7,399.9	7,067.9	6,995.2	26.8	13.6	-73.42	1,100.6	1,745.2	1,055.8	1,028.4	27.39	38.543		
7,850.0	7,414.9	7,071.4	6,998.0	26.7	13.6	-66.94	1,100.9	1,747.2	1,099.6	1,072.9	26.70	41.178		
7,900.0	7,426.6	7,073.4	6,999.7	26.6	13.6	-60.72	1,101.1	1,748.4	1,143.3	1,117.6	25.73	44.437		
7,950.0	7,434.9	7,074.1	7,000.2	26.5	13.6	-54.89	1,101.2	1,748.7	1,186.6	1,162.0	24.61	48.217		
8,000.0	7,439.7	7,073.4	6,999.7	26.5	13.6	-49.56	1,101.1	1,748.4	1,229.5	1,206.0	23.53	52.262		
8,043.8	7,441.0	7,071.8	6,998.3	26.5	13.6	-45.32	1,101.0	1,747.4	1,266.6	1,243.9	22.74	55.707		
8,100.0	7,441.0	7,069.0	6,996.1	26.6	13.6	-45.10	1,100.7	1,745.9	1,314.1	1,291.3	22.81	57.600		
8,200.0	7,441.0	7,064.2	6,992.2	26.7	13.6	-44.71	1,100.2	1,743.1	1,400.3	1,377.2	23.04	60.766		
8,300.0	7,441.0	7,050.0	6,980.5	27.0	13.6	-43.56	1,098.7	1,735.2	1,488.2	1,465.0	23.22	64.081		
8,400.0	7,441.0	7,050.0	6,980.5	27.4	13.6	-43.56	1,098.7	1,735.2	1,577.4	1,553.7	23.72	66.491		
8,500.0	7,441.0	7,050.0	6,980.5	27.8	13.6	-43.56	1,098.7	1,735.2	1,667.8	1,643.5	24.31	68.612		
8,600.0	7,441.0	7,050.0	6,980.5	28.4	13.6	-43.56	1,098.7	1,735.2	1,759.3	1,734.3	24.97	70.463		
8,700.0	7,441.0	7,050.0	6,980.5	29.1	13.6	-43.56	1,098.7	1,735.2	1,851.7	1,826.0	25.69	72.069		
8,800.0	7,441.0	7,050.0	6,980.5	29.9	13.6	-43.56	1,098.7	1,735.2	1,944.8	1,918.3	26.48	73.456		
8,900.0	7,441.0	7,033.1	6,966.4	30.8	13.7	-42.22	1,097.0	1,726.1	2,038.4	2,011.4	26.93	75.688		

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 1G-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 1G-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 #2B													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	7,441.0	7,029.0	6,962.9	31.7	13.7	-41.89	1,096.6	1,724.0	2,132.6	2,104.9	27.69	77.031		
9,100.0	7,441.0	7,025.0	6,959.5	32.7	13.7	-41.58	1,096.2	1,721.9	2,227.4	2,198.9	28.46	78.249		
9,200.0	7,441.0	7,021.0	6,956.1	33.8	13.7	-41.27	1,095.9	1,719.8	2,322.5	2,293.2	29.27	79.360		
9,300.0	7,441.0	7,017.2	6,952.8	34.9	13.7	-40.97	1,095.5	1,717.8	2,418.0	2,388.0	30.08	80.380		
9,400.0	7,441.0	7,000.0	6,938.0	36.1	13.8	-39.66	1,093.9	1,709.2	2,514.0	2,483.5	30.52	82.365		
9,500.0	7,441.0	7,000.0	6,938.0	37.3	13.8	-39.66	1,093.9	1,709.2	2,610.1	2,578.7	31.46	82.971		
9,600.0	7,441.0	7,000.0	6,938.0	38.6	13.8	-39.66	1,093.9	1,709.2	2,706.5	2,674.1	32.41	83.505		
9,700.0	7,441.0	7,000.0	6,938.0	39.9	13.8	-39.66	1,093.9	1,709.2	2,803.2	2,769.8	33.38	83.979		
9,800.0	7,441.0	7,000.0	6,938.0	41.2	13.8	-39.66	1,093.9	1,709.2	2,900.1	2,865.7	34.36	84.399		
9,900.0	7,441.0	7,000.0	6,938.0	42.6	13.8	-39.66	1,093.9	1,709.2	2,997.1	2,961.8	35.36	84.772		
10,000.0	7,441.0	7,000.0	6,938.0	44.0	13.8	-39.66	1,093.9	1,709.2	3,094.4	3,058.0	36.36	85.106		
10,100.0	7,441.0	7,000.0	6,938.0	45.4	13.8	-39.66	1,093.9	1,709.2	3,191.8	3,154.5	37.37	85.404		
10,200.0	7,441.0	7,000.0	6,938.0	46.9	13.8	-39.66	1,093.9	1,709.2	3,289.4	3,251.0	38.40	85.672		
10,300.0	7,441.0	6,981.9	6,922.2	48.4	13.9	-38.31	1,092.3	1,700.6	3,387.0	3,348.4	38.64	87.662		
10,400.0	7,441.0	6,978.7	6,919.4	49.8	13.9	-38.08	1,092.1	1,699.1	3,484.9	3,445.4	39.50	88.222		
10,500.0	7,441.0	6,975.6	6,916.7	51.3	13.9	-37.85	1,091.8	1,697.6	3,582.8	3,542.4	40.36	88.765		
10,600.0	7,441.0	6,972.5	6,913.9	52.9	13.9	-37.63	1,091.5	1,696.2	3,680.8	3,639.6	41.22	89.292		
10,700.0	7,441.0	6,969.5	6,911.2	54.4	13.9	-37.41	1,091.3	1,694.9	3,779.0	3,736.9	42.08	89.805		
10,800.0	7,441.0	6,966.5	6,908.6	55.9	13.9	-37.20	1,091.0	1,693.5	3,877.2	3,834.2	42.93	90.304		
10,900.0	7,441.0	6,950.0	6,893.8	57.5	13.9	-36.04	1,089.7	1,686.2	3,975.5	3,932.5	43.09	92.272		
11,000.0	7,441.0	6,950.0	6,893.8	59.1	13.9	-36.04	1,089.7	1,686.2	4,073.9	4,029.8	44.07	92.448		
11,100.0	7,441.0	6,950.0	6,893.8	60.7	13.9	-36.04	1,089.7	1,686.2	4,172.3	4,127.3	45.05	92.611		
11,200.0	7,441.0	6,950.0	6,893.8	62.2	13.9	-36.04	1,089.7	1,686.2	4,270.8	4,224.8	46.04	92.762		
11,300.0	7,441.0	6,950.0	6,893.8	63.8	13.9	-36.04	1,089.7	1,686.2	4,369.4	4,322.4	47.03	92.902		
11,400.0	7,441.0	6,950.0	6,893.8	65.4	13.9	-36.04	1,089.7	1,686.2	4,468.0	4,420.0	48.03	93.032		
11,500.0	7,441.0	6,950.0	6,893.8	67.1	13.9	-36.04	1,089.7	1,686.2	4,566.7	4,517.7	49.02	93.154		
11,600.0	7,441.0	6,950.0	6,893.8	68.7	13.9	-36.04	1,089.7	1,686.2	4,665.5	4,615.5	50.02	93.267		
11,700.0	7,441.0	6,950.0	6,893.8	70.3	13.9	-36.04	1,089.7	1,686.2	4,764.3	4,713.3	51.02	93.374		
11,800.0	7,441.0	6,950.0	6,893.8	71.9	13.9	-36.04	1,089.7	1,686.2	4,863.1	4,811.1	52.03	93.473		
11,900.0	7,441.0	6,950.0	6,893.8	73.6	13.9	-36.04	1,089.7	1,686.2	4,962.0	4,909.0	53.03	93.566		
12,000.0	7,441.0	6,950.0	6,893.8	75.2	13.9	-36.04	1,089.7	1,686.2	5,061.0	5,006.9	54.04	93.653		
12,100.0	7,441.0	6,931.9	6,877.4	76.9	14.0	-34.81	1,088.3	1,678.7	5,159.9	5,106.1	53.78	95.943		
12,135.7	7,441.0	6,931.0	6,876.7	77.5	14.0	-34.76	1,088.3	1,678.3	5,195.2	5,141.1	54.07	96.081		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 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	41.0	41.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6					
100.0	100.0	141.0	141.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.39	6,177.168		
200.0	200.0	241.0	241.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,242.648		
300.0	300.0	341.0	341.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,197.729		
400.0	400.0	441.0	441.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,660.983		
500.0	499.9	540.9	540.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,333.764		
600.0	599.7	640.7	640.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.13	1,113.107		
700.0	699.4	740.4	740.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	954.017		
800.0	798.9	839.9	839.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.4	2.82	833.701		
900.0	898.3	939.3	939.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	739.384		
1,000.0	997.4	1,038.4	1,038.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.51	663.343		
1,100.0	1,096.3	1,137.3	1,137.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	600.638		
1,200.0	1,194.9	1,235.9	1,235.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	547.964		
1,300.0	1,293.3	1,334.3	1,334.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.53	503.020		
1,400.0	1,391.2	1,432.2	1,432.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.159		
1,500.0	1,488.9	1,529.9	1,529.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.6	5.20	430.172		
1,600.0	1,586.1	1,627.1	1,627.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.147		
1,700.0	1,682.9	1,723.9	1,723.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.387		
1,800.0	1,779.3	1,820.3	1,820.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.19	349.347		
1,900.0	1,875.2	1,916.2	1,916.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.598		
2,000.0	1,970.8	2,011.8	2,011.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.065		
2,100.0	2,066.4	2,107.4	2,107.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.476		
2,200.0	2,162.1	2,203.1	2,203.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.568		
2,300.0	2,257.7	2,298.7	2,298.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.122		
2,400.0	2,353.3	2,394.3	2,394.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	241.955		
2,500.0	2,448.9	2,489.9	2,489.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	228.916		
2,600.0	2,544.6	2,585.6	2,585.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.873		
2,700.0	2,640.2	2,681.2	2,681.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.718		
2,800.0	2,735.8	2,776.8	2,776.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.355		
2,900.0	2,831.5	2,872.5	2,872.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.702		
3,000.0	2,927.1	2,968.1	2,968.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.689		
3,100.0	3,022.7	3,063.7	3,063.7	12.2	5.3	1.99	1,173.1	2,073.8	1,781.7	1,771.1	10.59	168.255		
3,200.0	3,118.4	3,159.4	3,159.4	12.8	5.5	2.02	1,173.1	2,073.8	1,752.5	1,741.5	10.93	160.344		
3,300.0	3,214.0	3,255.0	3,255.0	13.3	5.7	2.06	1,173.1	2,073.8	1,723.3	1,712.0	11.27	152.910		
3,400.0	3,309.6	3,350.6	3,350.6	13.9	5.8	2.09	1,173.1	2,073.8	1,694.0	1,682.4	11.61	145.911		
3,500.0	3,405.3	3,446.3	3,446.3	14.4	6.0	2.13	1,173.1	2,073.8	1,664.8	1,652.9	11.95	139.310		
3,600.0	3,500.9	3,541.9	3,541.9	15.0	6.2	2.17	1,173.1	2,073.8	1,635.6	1,623.3	12.29	133.074		
3,700.0	3,596.5	3,637.5	3,637.5	15.5	6.3	2.21	1,173.1	2,073.8	1,606.4	1,593.7	12.63	127.172		
3,800.0	3,692.1	3,733.1	3,733.1	16.1	6.5	2.25	1,173.1	2,073.8	1,577.2	1,564.2	12.97	121.580		
3,900.0	3,787.8	3,828.8	3,828.8	16.7	6.7	2.29	1,173.1	2,073.8	1,547.9	1,534.6	13.31	116.273		
4,000.0	3,883.4	3,924.4	3,924.4	17.2	6.8	2.34	1,173.1	2,073.8	1,518.7	1,505.1	13.65	111.230		
4,100.0	3,979.0	4,046.6	4,046.6	17.8	7.1	2.39	1,173.1	2,073.5	1,489.4	1,475.4	14.04	106.082		
4,200.0	4,074.7	4,352.5	4,350.6	18.3	7.6	1.98	1,171.2	2,043.1	1,451.6	1,436.9	14.72	98.585		
4,300.0	4,170.3	4,618.1	4,607.8	18.9	8.3	0.73	1,167.1	1,977.7	1,401.7	1,386.3	15.35	91.286		
4,400.0	4,265.9	4,842.6	4,816.4	19.4	9.2	-1.27	1,162.0	1,895.1	1,342.3	1,326.2	16.02	83.780		
4,500.0	4,361.6	4,959.9	4,921.4	20.0	9.8	-2.80	1,158.7	1,842.9	1,277.0	1,260.5	16.55	77.157		
4,600.0	4,457.2	5,033.2	4,986.6	20.5	10.3	-3.90	1,156.7	1,809.6	1,211.6	1,194.6	17.00	71.268		
4,700.0	4,552.8	5,106.5	5,051.9	21.1	10.7	-5.12	1,154.6	1,776.3	1,146.5	1,129.0	17.50	65.512		
4,800.0	4,648.5	5,179.8	5,117.2	21.6	11.2	-6.47	1,152.5	1,742.9	1,081.7	1,063.7	18.07	59.873		
4,900.0	4,744.1	5,253.1	5,182.4	22.2	11.7	-7.98	1,150.4	1,709.6	1,017.4	998.7	18.71	54.364		
5,000.0	4,839.7	5,326.4	5,247.7	22.7	12.2	-9.68	1,148.4	1,676.3	953.6	934.1	19.46	48.996		
5,100.0	4,935.3	5,399.7	5,312.9	23.3	12.7	-11.59	1,146.3	1,643.0	890.4	870.1	20.34	43.784		

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 1G-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 1G-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		
5,204.0	5,034.8	5,476.0	5,380.8	23.9	13.2	-13.85	1,144.1	1,608.3	825.5	804.1	21.41	38.551		
5,300.0	5,126.8	5,546.9	5,443.9	24.4	13.8	-16.02	1,142.1	1,576.1	767.2	744.6	22.57	33.985		
5,400.0	5,223.2	5,621.8	5,510.6	24.9	14.3	-18.58	1,140.0	1,542.0	708.9	684.9	23.97	29.573		
5,500.0	5,320.0	5,697.8	5,578.2	25.3	14.9	-21.48	1,137.8	1,507.4	653.4	627.8	25.59	25.539		
5,600.0	5,417.2	5,774.9	5,646.9	25.8	15.5	-24.78	1,135.7	1,472.4	601.2	573.8	27.45	21.907		
5,700.0	5,514.8	5,853.0	5,716.4	26.2	16.1	-28.53	1,133.5	1,436.9	552.9	523.3	29.56	18.700		
5,800.0	5,612.8	5,932.1	5,786.8	26.5	16.7	-32.78	1,131.2	1,400.9	508.9	476.9	31.94	15.933		
5,900.0	5,711.1	6,012.2	5,858.2	26.9	17.4	-37.58	1,128.9	1,364.5	470.0	435.5	34.54	13.608		
6,000.0	5,809.7	6,093.3	5,930.3	27.2	18.0	-42.92	1,126.7	1,327.6	437.1	399.8	37.30	11.720		
6,100.0	5,908.6	6,175.3	6,003.4	27.5	18.7	-48.79	1,124.3	1,290.3	411.1	371.0	40.10	10.252		
6,200.0	6,007.7	6,258.3	6,077.2	27.8	19.4	-55.11	1,122.0	1,252.6	392.8	350.0	42.81	9.176		
6,300.0	6,107.1	6,342.1	6,151.8	28.0	20.0	-61.74	1,119.6	1,214.5	382.7	337.4	45.23	8.460		
6,373.0	6,179.8	6,403.9	6,206.8	28.2	20.6	-66.66	1,117.9	1,186.4	380.5	333.8	46.73	8.142 CC		
6,400.0	6,206.6	6,426.8	6,227.2	28.2	20.7	-68.48	1,117.2	1,176.0	380.8	333.6	47.23	8.063 ES		
6,500.0	6,306.3	6,516.7	6,308.2	28.4	21.4	-75.19	1,115.0	1,137.0	386.4	337.8	48.65	7.942 SF		
6,600.0	6,406.1	6,620.5	6,406.5	28.6	22.0	-80.75	1,114.6	1,104.1	395.7	346.3	49.41	8.009		
6,700.0	6,506.0	6,734.7	6,518.9	28.7	22.3	-84.00	1,116.8	1,084.5	404.0	354.3	49.71	8.126		
6,800.0	6,606.0	6,853.8	6,637.7	28.8	22.4	-84.35	1,122.3	1,083.0	408.3	358.5	49.84	8.192		
6,904.0	6,710.0	6,974.9	6,756.9	28.9	22.1	-22.57	1,130.8	1,101.5	408.4	358.6	49.81	8.200		
6,918.8	6,724.8	6,991.5	6,772.9	28.9	22.1	-21.97	1,132.2	1,105.6	408.2	358.4	49.79	8.199		
6,934.0	6,739.9	7,008.2	6,789.0	28.9	22.0	158.70	1,133.6	1,110.1	408.1	358.3	49.73	8.206		
6,950.0	6,756.0	7,025.6	6,805.5	28.9	22.0	159.47	1,135.2	1,115.1	408.2	358.6	49.64	8.224		
7,000.0	6,805.8	7,077.6	6,854.2	28.9	21.7	162.12	1,140.2	1,132.6	410.9	361.8	49.14	8.363		
7,050.0	6,855.2	7,125.8	6,898.1	28.8	21.4	165.00	1,145.3	1,151.9	417.4	369.1	48.30	8.641		
7,100.0	6,904.0	7,169.8	6,937.0	28.8	21.1	167.95	1,150.3	1,172.1	428.2	381.1	47.15	9.082		
7,150.0	6,952.0	7,209.6	6,970.9	28.7	20.8	170.82	1,155.0	1,192.3	443.8	398.1	45.74	9.703		
7,200.0	6,998.8	7,245.3	7,000.3	28.6	20.6	173.55	1,159.4	1,211.9	464.3	420.2	44.11	10.526		
7,250.0	7,044.3	7,276.8	7,025.5	28.5	20.3	176.11	1,163.5	1,230.6	489.5	447.2	42.30	11.572		
7,300.0	7,088.2	7,304.7	7,046.9	28.3	20.0	178.51	1,167.2	1,247.9	519.3	478.9	40.37	12.862		
7,350.0	7,130.4	7,329.0	7,065.1	28.2	19.8	-179.21	1,170.5	1,263.7	553.1	514.8	38.34	14.426		
7,400.0	7,170.6	7,350.0	7,080.4	28.0	19.6	-176.97	1,173.5	1,277.8	590.5	554.3	36.24	16.294		
7,450.0	7,208.6	7,368.2	7,093.3	27.8	19.4	-174.67	1,176.0	1,290.4	631.0	596.9	34.07	18.519		
7,500.0	7,244.3	7,383.7	7,104.0	27.7	19.2	-172.20	1,178.2	1,301.4	674.0	642.1	31.87	21.151		
7,550.0	7,277.4	7,400.0	7,115.0	27.5	19.1	-168.92	1,180.6	1,313.2	719.1	689.5	29.56	24.327		
7,600.0	7,307.8	7,407.4	7,119.9	27.3	19.0	-165.69	1,181.7	1,318.6	765.8	738.4	27.41	27.940		
7,650.0	7,335.4	7,416.1	7,125.5	27.2	18.9	-160.55	1,182.9	1,325.1	813.7	788.4	25.27	32.206		
7,700.0	7,360.0	7,422.8	7,129.9	27.0	18.8	-152.20	1,183.9	1,330.1	862.6	839.1	23.48	36.738		
7,750.0	7,381.6	7,427.8	7,133.1	26.9	18.8	-135.96	1,184.6	1,333.9	912.0	888.8	23.18	39.337		
7,800.0	7,399.9	7,431.0	7,135.1	26.8	18.7	-100.99	1,185.1	1,336.3	961.8	935.1	26.69	36.041		
7,850.0	7,414.9	7,432.7	7,136.2	26.7	18.7	-56.53	1,185.4	1,337.6	1,011.6	985.3	26.28	38.485		
7,900.0	7,426.6	7,432.8	7,136.2	26.6	18.7	-32.58	1,185.4	1,337.7	1,061.3	1,039.0	22.27	47.645		
7,950.0	7,434.9	7,431.4	7,135.4	26.5	18.7	-21.40	1,185.2	1,336.6	1,110.6	1,090.9	19.69	56.409		
8,000.0	7,439.7	7,428.6	7,133.6	26.5	18.8	-15.28	1,184.8	1,334.5	1,159.3	1,141.0	18.31	63.318		
8,043.8	7,441.0	7,425.0	7,131.3	26.5	18.8	-11.83	1,184.2	1,331.7	1,201.5	1,183.6	17.83	67.395		
8,100.0	7,441.0	7,419.6	7,127.8	26.6	18.9	-11.09	1,183.4	1,327.7	1,255.2	1,237.3	17.89	70.152		
8,200.0	7,441.0	7,410.2	7,121.7	26.7	19.0	-9.82	1,182.1	1,320.7	1,351.2	1,333.2	18.03	74.948		
8,300.0	7,441.0	7,400.0	7,115.0	27.0	19.1	-8.51	1,180.6	1,313.2	1,447.7	1,429.5	18.17	79.654		
8,400.0	7,441.0	7,400.0	7,115.0	27.4	19.1	-8.51	1,180.6	1,313.2	1,544.5	1,526.1	18.45	83.728		
8,500.0	7,441.0	7,382.5	7,103.1	27.8	19.3	-6.36	1,178.1	1,300.5	1,641.6	1,623.1	18.53	88.575		
8,600.0	7,441.0	7,373.5	7,097.0	28.4	19.3	-5.32	1,176.8	1,294.1	1,739.0	1,720.3	18.72	92.893		
8,700.0	7,441.0	7,364.6	7,090.8	29.1	19.4	-4.33	1,175.5	1,287.9	1,836.6	1,817.7	18.91	97.108		
8,800.0	7,441.0	7,350.0	7,080.4	29.9	19.6	-2.78	1,173.5	1,277.8	1,934.4	1,915.3	19.08	101.406		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		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	7,441.0	7,350.0	7,080.4	30.8	19.6	-2.78	1,173.5	1,277.8	2,032.3	2,013.0	19.33	105.142		
9,000.0	7,441.0	7,338.7	7,072.2	31.7	19.7	-1.65	1,171.9	1,270.1	2,130.4	2,110.9	19.52	109.118		
9,100.0	7,441.0	7,330.3	7,066.1	32.7	19.8	-0.86	1,170.7	1,264.5	2,228.6	2,208.8	19.74	112.895		
9,200.0	7,441.0	7,322.0	7,059.9	33.8	19.9	-0.10	1,169.6	1,259.0	2,326.9	2,306.9	19.96	116.553		
9,300.0	7,441.0	7,313.8	7,053.8	34.9	19.9	0.61	1,168.5	1,253.7	2,425.3	2,405.1	20.20	120.084		
9,400.0	7,441.0	7,300.0	7,043.4	36.1	20.1	1.75	1,166.6	1,244.9	2,523.7	2,503.3	20.44	123.456		
9,500.0	7,441.0	7,300.0	7,043.4	37.3	20.1	1.75	1,166.6	1,244.9	2,622.3	2,601.6	20.69	126.768		
9,600.0	7,441.0	7,300.0	7,043.4	38.6	20.1	1.75	1,166.6	1,244.9	2,720.9	2,700.0	20.93	130.017		
9,700.0	7,441.0	7,282.2	7,029.6	39.9	20.2	3.10	1,164.2	1,233.8	2,819.6	2,798.3	21.23	132.840		
9,800.0	7,441.0	7,274.5	7,023.7	41.2	20.3	3.64	1,163.2	1,229.2	2,918.3	2,896.8	21.51	135.672		
9,900.0	7,441.0	7,267.0	7,017.7	42.6	20.4	4.14	1,162.2	1,224.7	3,017.1	2,995.3	21.81	138.359		
10,000.0	7,441.0	7,250.0	7,004.1	44.0	20.5	5.22	1,160.0	1,214.7	3,115.9	3,093.7	22.19	140.411		
10,100.0	7,441.0	7,250.0	7,004.1	45.4	20.5	5.22	1,160.0	1,214.7	3,214.8	3,192.3	22.45	143.173		
10,200.0	7,441.0	7,250.0	7,004.1	46.9	20.5	5.22	1,160.0	1,214.7	3,313.7	3,291.0	22.72	145.877		
10,300.0	7,441.0	7,238.1	6,994.5	48.4	20.6	5.90	1,158.5	1,207.9	3,412.6	3,389.5	23.10	147.705		
10,400.0	7,441.0	7,231.2	6,988.8	49.8	20.7	6.28	1,157.7	1,204.0	3,511.6	3,488.1	23.46	149.710		
10,500.0	7,441.0	7,224.3	6,983.1	51.3	20.7	6.64	1,156.8	1,200.2	3,610.6	3,586.8	23.82	151.594		
10,600.0	7,441.0	7,217.6	6,977.5	52.9	20.8	6.98	1,156.0	1,196.5	3,709.7	3,685.5	24.19	153.363		
10,700.0	7,441.0	7,200.0	6,962.8	54.4	20.9	7.80	1,153.8	1,187.2	3,808.8	3,784.0	24.72	154.057		
10,800.0	7,441.0	7,200.0	6,962.8	55.9	20.9	7.80	1,153.8	1,187.2	3,907.8	3,882.8	25.02	156.177		
10,900.0	7,441.0	7,200.0	6,962.8	57.5	20.9	7.80	1,153.8	1,187.2	4,006.9	3,981.6	25.32	158.247		
11,000.0	7,441.0	7,200.0	6,962.8	59.1	20.9	7.80	1,153.8	1,187.2	4,106.1	4,080.5	25.62	160.268		
11,100.0	7,441.0	7,185.4	6,950.3	60.7	21.0	8.41	1,152.1	1,179.7	4,205.3	4,179.1	26.17	160.712		
11,200.0	7,441.0	7,179.2	6,945.1	62.2	21.1	8.65	1,151.3	1,176.6	4,304.4	4,277.9	26.58	161.928		
11,300.0	7,441.0	7,173.2	6,939.8	63.8	21.1	8.87	1,150.6	1,173.7	4,403.7	4,376.7	27.00	163.074		
11,400.0	7,441.0	7,167.2	6,934.7	65.4	21.2	9.08	1,149.9	1,170.8	4,502.9	4,475.5	27.43	164.157		
11,500.0	7,441.0	7,150.0	6,919.6	67.1	21.3	9.65	1,148.0	1,162.7	4,602.2	4,574.1	28.06	164.034		
11,600.0	7,441.0	7,150.0	6,919.6	68.7	21.3	9.65	1,148.0	1,162.7	4,701.4	4,673.0	28.39	165.577		
11,700.0	7,441.0	7,150.0	6,919.6	70.3	21.3	9.65	1,148.0	1,162.7	4,800.7	4,772.0	28.73	167.082		
11,800.0	7,441.0	7,150.0	6,919.6	71.9	21.3	9.65	1,148.0	1,162.7	4,900.0	4,870.9	29.07	168.550		
11,900.0	7,441.0	7,150.0	6,919.6	73.6	21.3	9.65	1,148.0	1,162.7	4,999.3	4,969.9	29.41	169.983		
12,000.0	7,441.0	7,133.4	6,904.9	75.2	21.4	10.13	1,146.1	1,155.2	5,098.6	5,068.6	30.07	169.575		
12,100.0	7,441.0	7,128.0	6,900.1	76.9	21.4	10.27	1,145.5	1,152.9	5,198.0	5,167.5	30.52	170.338		
12,135.7	7,441.0	7,126.2	6,898.5	77.5	21.4	10.32	1,145.3	1,152.1	5,233.4	5,202.7	30.68	170.602		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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			
0.0	0.0	41.0	41.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6						
100.0	100.0	141.0	141.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.39	6,177.168			
200.0	200.0	241.0	241.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,242.648			
300.0	300.0	341.0	341.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,197.729			
400.0	400.0	441.0	441.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,660.983			
500.0	499.9	540.9	540.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,333.764			
600.0	599.7	640.7	640.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.13	1,113.107			
700.0	699.4	740.4	740.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	954.017			
800.0	798.9	839.9	839.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.4	2.82	833.701			
900.0	898.3	939.3	939.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	739.384			
1,000.0	997.4	1,038.4	1,038.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.51	663.343			
1,100.0	1,096.3	1,137.3	1,137.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	600.638			
1,200.0	1,194.9	1,235.9	1,235.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	547.964			
1,300.0	1,293.3	1,334.3	1,334.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.53	503.020			
1,400.0	1,391.2	1,432.2	1,432.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.159			
1,500.0	1,488.9	1,529.9	1,529.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.6	5.20	430.172			
1,600.0	1,586.1	1,627.1	1,627.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.147			
1,700.0	1,682.9	1,723.9	1,723.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.387			
1,800.0	1,779.3	1,820.3	1,820.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.19	349.347			
1,900.0	1,875.2	1,916.2	1,916.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.598			
2,000.0	1,970.8	2,011.8	2,011.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.065			
2,100.0	2,066.4	2,107.4	2,107.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.476			
2,200.0	2,162.1	2,203.1	2,203.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.568			
2,300.0	2,257.7	2,298.7	2,298.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.122			
2,400.0	2,353.3	2,394.3	2,394.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	241.955			
2,500.0	2,448.9	2,489.9	2,489.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	228.916			
2,600.0	2,544.6	2,585.6	2,585.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.873			
2,700.0	2,640.2	2,681.2	2,681.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.718			
2,800.0	2,735.8	2,776.8	2,776.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.355			
2,900.0	2,831.5	2,872.5	2,872.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.702			
3,000.0	2,927.1	2,968.1	2,968.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.689			
3,100.0	3,022.7	3,384.5	3,381.9	12.2	6.0	1.49	1,171.3	2,035.3	1,775.9	1,764.8	11.13	159.576			
3,200.0	3,118.4	3,630.0	3,618.8	12.8	6.7	0.43	1,168.2	1,971.6	1,723.7	1,711.9	11.76	146.624			
3,300.0	3,214.0	3,713.6	3,698.6	13.3	7.0	-0.04	1,167.0	1,946.7	1,670.1	1,658.0	12.10	138.016			
3,400.0	3,309.6	3,797.2	3,778.4	13.9	7.3	-0.53	1,165.8	1,921.8	1,616.5	1,604.1	12.45	129.793			
3,500.0	3,405.3	3,880.7	3,858.2	14.4	7.6	-1.06	1,164.7	1,896.9	1,563.1	1,550.2	12.82	121.926			
3,600.0	3,500.9	3,964.3	3,937.9	15.0	7.9	-1.62	1,163.5	1,872.0	1,509.7	1,496.5	13.20	114.402			
3,700.0	3,596.5	4,047.9	4,017.7	15.5	8.3	-2.23	1,162.3	1,847.1	1,456.5	1,442.9	13.59	107.200			
3,800.0	3,692.1	4,131.5	4,097.5	16.1	8.7	-2.88	1,161.1	1,822.2	1,403.4	1,389.4	13.99	100.297			
3,900.0	3,787.8	4,215.1	4,177.3	16.7	9.0	-3.58	1,159.9	1,797.2	1,350.4	1,336.0	14.42	93.677			
4,000.0	3,883.4	4,298.6	4,257.0	17.2	9.4	-4.33	1,158.7	1,772.3	1,297.6	1,282.8	14.86	87.321			
4,100.0	3,979.0	4,382.2	4,336.8	17.8	9.8	-5.15	1,157.5	1,747.4	1,245.0	1,229.7	15.33	81.212			
4,200.0	4,074.7	4,465.8	4,416.6	18.3	10.2	-6.04	1,156.3	1,722.5	1,192.6	1,176.8	15.83	75.339			
4,300.0	4,170.3	4,549.4	4,496.3	18.9	10.6	-7.00	1,155.1	1,697.6	1,140.4	1,124.1	16.36	69.692			
4,400.0	4,265.9	4,633.0	4,576.1	19.4	11.0	-8.05	1,153.9	1,672.7	1,088.5	1,071.6	16.94	64.261			
4,500.0	4,361.6	4,716.6	4,655.9	20.0	11.5	-9.20	1,152.7	1,647.7	1,036.9	1,019.4	17.56	59.038			
4,600.0	4,457.2	4,800.1	4,735.7	20.5	11.9	-10.47	1,151.6	1,622.8	985.7	967.4	18.25	54.019			
4,700.0	4,552.8	4,883.7	4,815.4	21.1	12.3	-11.87	1,150.4	1,597.9	934.8	915.8	19.00	49.201			
4,800.0	4,648.5	4,967.3	4,895.2	21.6	12.7	-13.41	1,149.2	1,573.0	884.5	864.7	19.84	44.587			
4,900.0	4,744.1	5,050.9	4,975.0	22.2	13.2	-15.13	1,148.0	1,548.1	834.7	814.0	20.77	40.183			
5,000.0	4,839.7	5,134.5	5,054.8	22.7	13.6	-17.04	1,146.8	1,523.2	785.7	763.8	21.83	35.996			
5,100.0	4,935.3	5,218.0	5,134.5	23.3	14.1	-19.19	1,145.6	1,498.3	737.4	714.4	23.02	32.038			

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 1G-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 1G-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		
5,204.0	5,034.8	5,305.0	5,217.5	23.9	14.5	-21.71	1,144.4	1,472.3	688.3	663.8	24.42	28.181		
5,300.0	5,126.8	5,385.6	5,294.5	24.4	14.9	-24.11	1,143.2	1,448.3	644.7	618.9	25.86	24.936		
5,400.0	5,223.2	5,470.5	5,375.5	24.9	15.4	-26.90	1,142.0	1,423.0	602.2	574.7	27.50	21.898		
5,500.0	5,320.0	5,556.3	5,457.4	25.3	15.9	-30.00	1,140.8	1,397.4	562.8	533.5	29.31	19.206		
5,600.0	5,417.2	5,643.0	5,540.1	25.8	16.3	-33.42	1,139.5	1,371.6	526.9	495.6	31.26	16.854		
5,700.0	5,514.8	5,730.4	5,623.5	26.2	16.8	-37.20	1,138.3	1,345.5	494.7	461.3	33.35	14.833		
5,800.0	5,612.8	5,818.7	5,707.8	26.5	17.3	-41.33	1,137.0	1,319.2	466.6	431.1	35.54	13.129		
5,900.0	5,711.1	5,907.7	5,792.7	26.9	17.8	-45.79	1,135.8	1,292.7	442.9	405.1	37.77	11.726		
6,000.0	5,809.7	5,997.4	5,878.4	27.2	18.2	-50.54	1,134.5	1,265.9	423.9	383.9	39.98	10.604		
6,100.0	5,908.6	6,087.9	5,964.8	27.5	18.7	-55.53	1,133.2	1,239.0	409.8	367.7	42.08	9.739		
6,200.0	6,007.7	6,179.1	6,051.8	27.8	19.2	-60.66	1,131.9	1,211.8	400.6	356.6	43.99	9.106		
6,300.0	6,107.1	6,270.9	6,139.4	28.0	19.7	-65.83	1,130.6	1,184.4	396.1	350.5	45.64	8.680		
6,348.2	6,155.0	6,315.4	6,181.9	28.1	20.0	-68.30	1,129.9	1,171.2	395.6	349.3	46.32	8.541 CC		
6,400.0	6,206.6	6,363.4	6,227.7	28.2	20.3	-70.93	1,129.3	1,156.9	396.2	349.2	46.98	8.433 ES		
6,500.0	6,306.3	6,456.4	6,316.5	28.4	20.8	-75.85	1,127.9	1,129.1	400.3	352.3	48.00	8.340 SF		
6,600.0	6,406.1	6,555.9	6,411.8	28.6	21.3	-80.59	1,126.7	1,100.8	407.7	359.0	48.69	8.373		
6,700.0	6,506.0	6,670.6	6,524.9	28.7	21.6	-83.68	1,127.6	1,082.2	414.3	365.3	49.01	8.454		
6,800.0	6,606.0	6,789.7	6,643.8	28.8	21.6	-83.93	1,131.6	1,082.1	417.1	368.0	49.14	8.488		
6,904.0	6,710.0	6,910.5	6,762.6	28.9	21.4	-22.11	1,138.6	1,101.9	415.7	366.6	49.08	8.470		
6,918.8	6,724.8	6,927.1	6,778.6	28.9	21.3	-21.51	1,139.8	1,106.1	415.3	366.2	49.05	8.467		
6,944.4	6,750.4	6,955.0	6,805.2	28.9	21.2	159.66	1,142.0	1,114.1	414.9	365.9	48.93	8.479		
6,950.0	6,756.0	6,961.0	6,810.9	28.9	21.2	159.93	1,142.4	1,115.9	414.9	366.0	48.89	8.486		
7,000.0	6,805.8	7,012.8	6,859.3	28.9	21.0	162.58	1,146.8	1,133.8	417.0	368.6	48.38	8.619		
7,050.0	6,855.2	7,060.8	6,902.8	28.8	20.7	165.45	1,151.3	1,153.5	422.9	375.4	47.53	8.897		
7,100.0	6,904.0	7,104.6	6,941.4	28.8	20.4	168.38	1,155.8	1,173.9	433.2	386.8	46.39	9.339		
7,150.0	6,952.0	7,144.2	6,975.0	28.7	20.1	171.23	1,160.1	1,194.3	448.4	403.4	44.99	9.966		
7,200.0	6,998.8	7,179.7	7,004.2	28.6	19.8	173.94	1,164.1	1,214.2	468.4	425.0	43.37	10.799		
7,250.0	7,044.3	7,211.2	7,029.1	28.5	19.6	176.49	1,167.9	1,232.9	493.3	451.7	41.60	11.858		
7,300.0	7,088.2	7,238.9	7,050.4	28.3	19.3	178.88	1,171.3	1,250.4	522.7	483.0	39.70	13.166		
7,350.0	7,130.4	7,263.1	7,068.4	28.2	19.1	-178.83	1,174.4	1,266.3	556.3	518.6	37.71	14.751		
7,400.0	7,170.6	7,284.2	7,083.7	28.0	18.9	-176.58	1,177.1	1,280.6	593.5	557.8	35.64	16.650		
7,450.0	7,208.6	7,300.0	7,094.8	27.8	18.8	-174.53	1,179.2	1,291.6	633.7	600.1	33.58	18.874		
7,500.0	7,244.3	7,317.8	7,107.0	27.7	18.6	-171.79	1,181.6	1,304.3	676.6	645.2	31.35	21.579		
7,550.0	7,277.4	7,330.9	7,115.8	27.5	18.5	-168.89	1,183.3	1,313.8	721.5	692.3	29.16	24.739		
7,600.0	7,307.8	7,341.7	7,122.9	27.3	18.4	-165.23	1,184.8	1,321.8	768.1	741.1	26.99	28.459		
7,650.0	7,335.4	7,350.0	7,128.3	27.2	18.3	-160.14	1,185.9	1,328.1	816.0	791.0	24.92	32.743		
7,700.0	7,360.0	7,350.0	7,128.3	27.0	18.3	-152.81	1,185.9	1,328.1	864.8	841.6	23.25	37.202		
7,750.0	7,381.6	7,362.4	7,136.2	26.9	18.2	-136.11	1,187.7	1,337.4	914.2	891.2	22.99	39.755		
7,800.0	7,399.9	7,365.8	7,138.4	26.8	18.1	-103.24	1,188.1	1,340.0	963.9	937.5	26.37	36.546		
7,850.0	7,414.9	7,367.6	7,139.5	26.7	18.1	-59.82	1,188.4	1,341.4	1,013.7	987.3	26.43	38.352		
7,900.0	7,426.6	7,368.0	7,139.7	26.6	18.1	-34.77	1,188.4	1,341.7	1,063.4	1,040.9	22.42	47.431		
7,950.0	7,434.9	7,366.8	7,139.0	26.5	18.1	-22.86	1,188.3	1,340.8	1,112.7	1,093.0	19.70	56.472		
8,000.0	7,439.7	7,364.3	7,137.4	26.5	18.2	-16.34	1,187.9	1,338.9	1,161.5	1,143.2	18.25	63.655		
8,043.8	7,441.0	7,360.9	7,135.3	26.5	18.2	-12.68	1,187.5	1,336.3	1,203.7	1,185.9	17.72	67.920		
8,100.0	7,441.0	7,350.0	7,128.3	26.6	18.3	-11.16	1,185.9	1,328.1	1,257.4	1,239.7	17.69	71.064		
8,200.0	7,441.0	7,350.0	7,128.3	26.7	18.3	-11.16	1,185.9	1,328.1	1,353.5	1,335.6	17.96	75.363		
8,300.0	7,441.0	7,338.4	7,120.8	27.0	18.4	-9.60	1,184.3	1,319.4	1,450.1	1,432.0	18.07	80.238		
8,400.0	7,441.0	7,329.8	7,115.1	27.4	18.5	-8.49	1,183.2	1,313.1	1,547.0	1,528.8	18.24	84.814		
8,500.0	7,441.0	7,321.4	7,109.4	27.8	18.6	-7.43	1,182.0	1,306.9	1,644.2	1,625.8	18.42	89.278		
8,600.0	7,441.0	7,313.0	7,103.8	28.4	18.7	-6.42	1,180.9	1,300.9	1,741.7	1,723.1	18.60	93.638		
8,700.0	7,441.0	7,300.0	7,094.8	29.1	18.8	-4.92	1,179.2	1,291.6	1,839.4	1,820.7	18.75	98.116		
8,800.0	7,441.0	7,300.0	7,094.8	29.9	18.8	-4.92	1,179.2	1,291.6	1,937.3	1,918.3	19.01	101.912		

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 1G-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 1G-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		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)		Between Centres (ft)	Between Ellipses (ft)						
8,900.0	7,441.0	7,288.7	7,086.8	30.8	18.9	-3.68	1,177.7	1,283.7	2,035.3	2,016.1	19.18	106.124		
9,000.0	7,441.0	7,280.8	7,081.2	31.7	19.0	-2.85	1,176.6	1,278.2	2,133.4	2,114.0	19.38	110.088		
9,100.0	7,441.0	7,273.0	7,075.6	32.7	19.0	-2.06	1,175.6	1,272.9	2,231.7	2,212.1	19.59	113.948		
9,200.0	7,441.0	7,265.3	7,070.0	33.8	19.1	-1.32	1,174.6	1,267.8	2,330.1	2,310.3	19.80	117.700		
9,300.0	7,441.0	7,250.0	7,058.7	34.9	19.2	0.09	1,172.7	1,257.6	2,428.6	2,408.6	20.00	121.442		
9,400.0	7,441.0	7,250.0	7,058.7	36.1	19.2	0.09	1,172.7	1,257.6	2,527.1	2,506.9	20.24	124.862		
9,500.0	7,441.0	7,250.0	7,058.7	37.3	19.2	0.09	1,172.7	1,257.6	2,625.7	2,605.3	20.48	128.216		
9,600.0	7,441.0	7,235.8	7,048.1	38.6	19.4	1.31	1,170.9	1,248.4	2,724.4	2,703.7	20.72	131.512		
9,700.0	7,441.0	7,228.7	7,042.7	39.9	19.4	1.88	1,170.0	1,243.9	2,823.2	2,802.2	20.97	134.640		
9,800.0	7,441.0	7,221.7	7,037.3	41.2	19.5	2.42	1,169.2	1,239.5	2,922.0	2,900.7	21.23	137.633		
9,900.0	7,441.0	7,214.8	7,032.0	42.6	19.5	2.94	1,168.3	1,235.2	3,020.8	2,999.3	21.50	140.488		
10,000.0	7,441.0	7,200.0	7,020.4	44.0	19.7	3.98	1,166.5	1,226.2	3,119.7	3,097.9	21.84	142.852		
10,100.0	7,441.0	7,200.0	7,020.4	45.4	19.7	3.98	1,166.5	1,226.2	3,218.7	3,196.6	22.09	145.714		
10,200.0	7,441.0	7,200.0	7,020.4	46.9	19.7	3.98	1,166.5	1,226.2	3,317.7	3,295.3	22.34	148.518		
10,300.0	7,441.0	7,188.3	7,011.1	48.4	19.8	4.75	1,165.1	1,219.2	3,416.7	3,394.0	22.70	150.523		
10,400.0	7,441.0	7,181.9	7,005.9	49.8	19.8	5.14	1,164.4	1,215.5	3,515.7	3,492.7	23.02	152.696		
10,500.0	7,441.0	7,175.6	7,000.9	51.3	19.9	5.52	1,163.7	1,211.8	3,614.8	3,591.5	23.36	154.742		
10,600.0	7,441.0	7,169.5	6,995.9	52.9	19.9	5.87	1,162.9	1,208.3	3,713.9	3,690.2	23.71	156.666		
10,700.0	7,441.0	7,163.4	6,990.9	54.4	20.0	6.21	1,162.2	1,204.9	3,813.1	3,789.0	24.06	158.473		
10,800.0	7,441.0	7,150.0	6,979.8	55.9	20.1	6.91	1,160.7	1,197.5	3,912.3	3,887.7	24.54	159.434		
10,900.0	7,441.0	7,150.0	6,979.8	57.5	20.1	6.91	1,160.7	1,197.5	4,011.5	3,986.6	24.82	161.605		
11,000.0	7,441.0	7,150.0	6,979.8	59.1	20.1	6.91	1,160.7	1,197.5	4,110.7	4,085.6	25.11	163.727		
11,100.0	7,441.0	7,150.0	6,979.8	60.7	20.1	6.91	1,160.7	1,197.5	4,209.9	4,184.5	25.39	165.804		
11,200.0	7,441.0	7,134.4	6,966.8	62.2	20.2	7.65	1,159.0	1,189.1	4,309.2	4,283.2	25.96	165.962		
11,300.0	7,441.0	7,128.8	6,962.1	63.8	20.2	7.90	1,158.4	1,186.2	4,408.4	4,382.1	26.37	167.192		
11,400.0	7,441.0	7,123.4	6,957.5	65.4	20.3	8.13	1,157.8	1,183.3	4,507.7	4,481.0	26.78	168.347		
11,500.0	7,441.0	7,118.0	6,952.9	67.1	20.3	8.35	1,157.2	1,180.6	4,607.1	4,579.9	27.19	169.432		
11,600.0	7,441.0	7,112.7	6,948.4	68.7	20.3	8.56	1,156.7	1,177.9	4,706.4	4,678.8	27.61	170.452		
11,700.0	7,441.0	7,100.0	6,937.4	70.3	20.4	9.04	1,155.3	1,171.6	4,805.8	4,777.6	28.19	170.474		
11,800.0	7,441.0	7,100.0	6,937.4	71.9	20.4	9.04	1,155.3	1,171.6	4,905.1	4,876.6	28.52	172.010		
11,900.0	7,441.0	7,100.0	6,937.4	73.6	20.4	9.04	1,155.3	1,171.6	5,004.5	4,975.6	28.84	173.510		
12,000.0	7,441.0	7,100.0	6,937.4	75.2	20.4	9.04	1,155.3	1,171.6	5,103.9	5,074.7	29.17	174.975		
12,100.0	7,441.0	7,100.0	6,937.4	76.9	20.4	9.04	1,155.3	1,171.6	5,203.3	5,173.8	29.50	176.407		
12,135.7	7,441.0	7,085.9	6,925.0	77.5	20.5	9.52	1,153.8	1,164.9	5,238.7	5,208.8	29.93	175.011		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #5													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	41.0	41.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6					
100.0	100.0	141.0	141.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.39	6,177.168		
200.0	200.0	241.0	241.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,242.648		
300.0	300.0	341.0	341.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,197.729		
400.0	400.0	441.0	441.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,660.983		
500.0	499.9	540.9	540.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,333.764		
600.0	599.7	640.7	640.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.13	1,113.107		
700.0	699.4	740.4	740.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	954.017		
800.0	798.9	839.9	839.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.4	2.82	833.701		
900.0	898.3	939.3	939.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	739.384		
1,000.0	997.4	1,038.4	1,038.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.51	663.343		
1,100.0	1,096.3	1,137.3	1,137.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	600.638		
1,200.0	1,194.9	1,235.9	1,235.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	547.964		
1,300.0	1,293.3	1,334.3	1,334.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.53	503.020		
1,400.0	1,391.2	1,432.2	1,432.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.159		
1,500.0	1,488.9	1,529.9	1,529.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.6	5.20	430.172		
1,600.0	1,586.1	1,627.1	1,627.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.147		
1,700.0	1,682.9	1,723.9	1,723.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.387		
1,800.0	1,779.3	1,820.3	1,820.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.19	349.347		
1,900.0	1,875.2	1,916.2	1,916.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.598		
2,000.0	1,970.8	2,011.8	2,011.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.065		
2,100.0	2,066.4	2,107.4	2,107.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.476		
2,200.0	2,162.1	2,203.1	2,203.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.568		
2,300.0	2,257.7	2,298.7	2,298.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.122		
2,400.0	2,353.3	2,394.3	2,394.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	241.955		
2,500.0	2,448.9	2,489.9	2,489.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	228.916		
2,600.0	2,544.6	2,585.6	2,585.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.873		
2,700.0	2,640.2	2,681.2	2,681.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.718		
2,800.0	2,735.8	2,776.8	2,776.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.355		
2,900.0	2,831.5	2,872.5	2,872.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.702		
3,000.0	2,927.1	2,968.1	2,968.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.689		
3,100.0	3,022.7	3,342.8	3,341.0	12.2	5.9	1.56	1,173.1	2,043.1	1,776.7	1,765.6	11.06	160.646		
3,200.0	3,118.4	3,476.9	3,472.3	12.8	6.2	1.10	1,173.1	2,016.2	1,730.7	1,719.3	11.47	150.894		
3,300.0	3,214.0	3,565.2	3,558.7	13.3	6.4	0.77	1,173.1	1,997.8	1,684.7	1,672.9	11.81	142.702		
3,400.0	3,309.6	3,653.6	3,645.1	13.9	6.6	0.43	1,173.1	1,979.5	1,638.8	1,626.6	12.15	134.918		
3,500.0	3,405.3	3,741.9	3,731.6	14.4	6.9	0.06	1,173.0	1,961.2	1,592.8	1,580.3	12.49	127.513		
3,600.0	3,500.9	3,830.3	3,818.0	15.0	7.1	-0.33	1,173.0	1,942.9	1,547.0	1,534.1	12.84	120.462		
3,700.0	3,596.5	3,918.6	3,904.4	15.5	7.4	-0.75	1,173.0	1,924.5	1,501.2	1,488.0	13.20	113.739		
3,800.0	3,692.1	4,007.0	3,990.8	16.1	7.7	-1.19	1,173.0	1,906.2	1,455.4	1,441.9	13.56	107.323		
3,900.0	3,787.8	4,095.3	4,077.3	16.7	7.9	-1.65	1,173.0	1,887.9	1,409.8	1,395.8	13.93	101.193		
4,000.0	3,883.4	4,183.7	4,163.7	17.2	8.2	-2.15	1,173.0	1,869.6	1,364.2	1,349.9	14.31	95.328		
4,100.0	3,979.0	4,272.0	4,250.1	17.8	8.5	-2.69	1,173.0	1,851.2	1,318.7	1,304.0	14.70	89.712		
4,200.0	4,074.7	4,360.3	4,336.5	18.3	8.8	-3.26	1,173.0	1,832.9	1,273.3	1,258.2	15.10	84.330		
4,300.0	4,170.3	4,448.7	4,423.0	18.9	9.1	-3.87	1,172.9	1,814.6	1,228.0	1,212.5	15.51	79.165		
4,400.0	4,265.9	4,537.0	4,509.4	19.4	9.4	-4.52	1,172.9	1,796.3	1,182.8	1,166.9	15.94	74.204		
4,500.0	4,361.6	4,625.4	4,595.8	20.0	9.7	-5.23	1,172.9	1,777.9	1,137.8	1,121.4	16.39	69.435		
4,600.0	4,457.2	4,713.7	4,682.2	20.5	10.0	-6.00	1,172.9	1,759.6	1,092.9	1,076.1	16.85	64.844		
4,700.0	4,552.8	4,802.1	4,768.7	21.1	10.4	-6.82	1,172.9	1,741.3	1,048.2	1,030.9	17.35	60.424		
4,800.0	4,648.5	4,890.4	4,855.1	21.6	10.7	-7.72	1,172.9	1,723.0	1,003.7	985.8	17.87	56.163		
4,900.0	4,744.1	4,978.8	4,941.5	22.2	11.0	-8.71	1,172.9	1,704.6	959.4	941.0	18.43	52.055		
5,000.0	4,839.7	5,067.1	5,027.9	22.7	11.3	-9.78	1,172.9	1,686.3	915.4	896.4	19.03	48.094		
5,100.0	4,935.3	5,155.5	5,114.4	23.3	11.6	-10.96	1,172.9	1,668.0	871.7	852.0	19.69	44.276		

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 1G-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 1G-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 #5													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		
5,204.0	5,034.8	5,247.3	5,204.2	23.9	12.0	-12.31	1,172.8	1,648.9	826.5	806.1	20.43	40.454		
5,300.0	5,126.8	5,332.5	5,287.6	24.4	12.3	-13.57	1,172.8	1,631.3	786.0	764.8	21.20	37.074		
5,400.0	5,223.2	5,422.0	5,375.1	24.9	12.6	-15.00	1,172.8	1,612.7	745.7	723.6	22.06	33.799		
5,500.0	5,320.0	5,512.2	5,463.4	25.3	13.0	-16.55	1,172.8	1,594.0	707.5	684.5	22.99	30.767		
5,600.0	5,417.2	5,603.2	5,552.3	25.8	13.3	-18.23	1,172.8	1,575.1	671.4	647.4	24.00	27.975		
5,700.0	5,514.8	5,694.8	5,642.0	26.2	13.7	-20.05	1,172.8	1,556.1	637.5	612.4	25.08	25.416		
5,800.0	5,612.8	5,787.1	5,732.2	26.5	14.0	-22.01	1,172.8	1,537.0	605.9	579.6	26.24	23.086		
5,900.0	5,711.1	5,880.0	5,823.1	26.9	14.4	-24.12	1,172.8	1,517.7	576.7	549.2	27.49	20.980		
6,000.0	5,809.7	5,973.5	5,914.6	27.2	14.7	-26.38	1,172.7	1,498.3	549.9	521.1	28.80	19.090		
6,100.0	5,908.6	6,067.6	6,006.7	27.5	15.1	-28.77	1,172.7	1,478.8	525.6	495.4	30.19	17.410		
6,200.0	6,007.7	6,162.2	6,099.2	27.8	15.5	-31.31	1,172.7	1,459.1	503.9	472.2	31.63	15.930		
6,300.0	6,107.1	6,257.4	6,192.3	28.0	15.8	-33.96	1,172.7	1,439.4	484.7	451.6	33.11	14.640		
6,400.0	6,206.6	6,353.0	6,285.9	28.2	16.2	-36.70	1,172.7	1,419.6	468.2	433.6	34.61	13.528		
6,500.0	6,306.3	6,449.2	6,379.9	28.4	16.6	-39.52	1,172.7	1,399.6	454.3	418.2	36.11	12.582		
6,600.0	6,406.1	6,545.7	6,474.4	28.6	17.0	-42.38	1,172.7	1,379.6	443.0	405.4	37.58	11.788		
6,700.0	6,506.0	6,642.6	6,569.2	28.7	17.3	-45.25	1,172.6	1,359.5	434.2	395.2	39.00	11.133		
6,800.0	6,606.0	6,739.9	6,664.4	28.8	17.7	-48.07	1,172.6	1,339.3	427.7	387.4	40.34	10.603		
6,904.0	6,710.0	6,832.6	6,755.2	28.9	18.1	8.54	1,172.8	1,321.2	423.9	382.4	41.47	10.221		
6,918.8	6,724.8	6,844.2	6,766.8	28.9	18.1	8.34	1,173.0	1,319.8	423.8	382.2	41.57	10.195		
6,920.0	6,726.0	6,845.2	6,767.7	28.9	18.1	-171.67	1,173.0	1,319.7	423.8	382.2	41.57	10.194 CC, ES		
6,950.0	6,756.0	6,868.8	6,791.3	28.9	18.1	-171.96	1,173.4	1,317.6	424.6	383.0	41.67	10.189 SF		
7,000.0	6,805.8	6,908.3	6,830.7	28.9	18.2	-172.11	1,174.6	1,316.6	429.8	388.2	41.58	10.337		
7,050.0	6,855.2	6,947.2	6,869.5	28.8	18.2	-171.84	1,176.2	1,318.8	439.5	398.4	41.15	10.681		
7,100.0	6,904.0	6,984.6	6,906.5	28.8	18.1	-171.19	1,178.2	1,323.9	453.7	413.3	40.41	11.227		
7,150.0	6,952.0	7,020.0	6,941.0	28.7	18.1	-170.21	1,180.4	1,331.4	472.4	433.0	39.40	11.988		
7,200.0	6,998.8	7,050.0	6,969.8	28.6	18.0	-169.04	1,182.7	1,339.6	495.3	457.1	38.19	12.969		
7,250.0	7,044.3	7,082.8	7,000.5	28.5	17.9	-167.47	1,185.4	1,350.7	522.2	485.5	36.72	14.224		
7,300.0	7,088.2	7,109.9	7,025.2	28.3	17.8	-165.78	1,187.9	1,361.4	553.0	517.9	35.12	15.748		
7,350.0	7,130.4	7,134.0	7,046.7	28.2	17.6	-163.86	1,190.2	1,372.1	587.3	553.9	33.39	17.586		
7,400.0	7,170.6	7,155.2	7,065.2	28.0	17.5	-161.65	1,192.4	1,382.4	624.6	593.0	31.58	19.778		
7,450.0	7,208.6	7,175.0	7,081.9	27.8	17.4	-159.03	1,194.6	1,392.6	664.7	635.0	29.70	22.377		
7,500.0	7,244.3	7,189.8	7,094.2	27.7	17.3	-155.98	1,196.2	1,400.8	707.1	679.3	27.85	25.388		
7,550.0	7,277.4	7,200.0	7,102.5	27.5	17.3	-152.21	1,197.4	1,406.6	751.5	725.4	26.09	28.803		
7,600.0	7,307.8	7,215.0	7,114.4	27.3	17.2	-147.02	1,199.2	1,415.5	797.4	772.9	24.52	32.523		
7,650.0	7,335.4	7,225.0	7,122.2	27.2	17.1	-140.10	1,200.4	1,421.7	844.6	821.1	23.48	35.963		
7,700.0	7,360.0	7,232.1	7,127.7	27.0	17.0	-130.29	1,201.2	1,426.1	892.6	869.2	23.43	38.092		
7,750.0	7,381.6	7,238.0	7,132.2	26.9	17.0	-116.15	1,202.0	1,429.9	941.4	916.6	24.75	38.040		
7,800.0	7,399.9	7,242.3	7,135.4	26.8	17.0	-96.94	1,202.5	1,432.7	990.5	963.8	26.69	37.109		
7,850.0	7,414.9	7,250.0	7,141.1	26.7	16.9	-76.58	1,203.5	1,437.7	1,039.7	1,012.6	27.13	38.322		
7,900.0	7,426.6	7,250.0	7,141.1	26.6	16.9	-57.16	1,203.5	1,437.7	1,088.9	1,063.5	25.35	42.955		
7,950.0	7,434.9	7,250.0	7,141.1	26.5	16.9	-43.10	1,203.5	1,437.7	1,137.7	1,114.9	22.79	49.913		
8,000.0	7,439.7	7,250.0	7,141.1	26.5	16.9	-33.58	1,203.5	1,437.7	1,186.1	1,165.4	20.74	57.200		
8,043.8	7,441.0	7,242.8	7,135.7	26.5	17.0	-26.77	1,202.6	1,433.0	1,228.0	1,208.5	19.45	63.145		
8,100.0	7,441.0	7,239.2	7,133.1	26.6	17.0	-26.29	1,202.1	1,430.7	1,281.4	1,261.9	19.49	65.739		
8,200.0	7,441.0	7,233.1	7,128.4	26.7	17.0	-25.47	1,201.4	1,426.7	1,377.0	1,357.3	19.62	70.192		
8,300.0	7,441.0	7,225.0	7,122.2	27.0	17.1	-24.42	1,200.4	1,421.7	1,473.1	1,453.3	19.74	74.611		
8,400.0	7,441.0	7,225.0	7,122.2	27.4	17.1	-24.42	1,200.4	1,421.7	1,569.6	1,549.5	20.10	78.103		
8,500.0	7,441.0	7,215.2	7,114.6	27.8	17.2	-23.18	1,199.2	1,415.7	1,666.6	1,646.3	20.24	82.330		
8,600.0	7,441.0	7,209.5	7,110.0	28.4	17.2	-22.48	1,198.5	1,412.2	1,763.8	1,743.3	20.51	86.016		
8,700.0	7,441.0	7,200.0	7,102.5	29.1	17.3	-21.35	1,197.4	1,406.6	1,861.3	1,840.6	20.69	89.975		
8,800.0	7,441.0	7,200.0	7,102.5	29.9	17.3	-21.35	1,197.4	1,406.6	1,959.0	1,937.9	21.12	92.773		
8,900.0	7,441.0	7,193.0	7,096.8	30.8	17.3	-20.54	1,196.6	1,402.6	2,056.9	2,035.5	21.37	96.242		

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 1G-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 1G-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 #5													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	7,441.0	7,187.8	7,092.5	31.7	17.3	-19.95	1,196.0	1,399.7	2,154.9	2,133.2	21.67	99.424		
9,100.0	7,441.0	7,182.6	7,088.3	32.7	17.4	-19.38	1,195.4	1,396.8	2,253.1	2,231.1	21.98	102.517		
9,200.0	7,441.0	7,175.0	7,081.9	33.8	17.4	-18.56	1,194.6	1,392.6	2,351.5	2,329.2	22.21	105.887		
9,300.0	7,441.0	7,175.0	7,081.9	34.9	17.4	-18.56	1,194.6	1,392.6	2,449.9	2,427.2	22.66	108.123		
9,400.0	7,441.0	7,167.8	7,075.9	36.1	17.5	-17.82	1,193.8	1,388.8	2,548.4	2,525.5	22.89	111.349		
9,500.0	7,441.0	7,163.0	7,071.9	37.3	17.5	-17.34	1,193.3	1,386.3	2,647.1	2,623.9	23.19	114.171		
9,600.0	7,441.0	7,158.4	7,067.9	38.6	17.5	-16.88	1,192.8	1,383.9	2,745.8	2,722.3	23.48	116.941		
9,700.0	7,441.0	7,150.0	7,060.7	39.9	17.6	-16.08	1,191.9	1,379.7	2,844.6	2,820.9	23.64	120.307		
9,800.0	7,441.0	7,150.0	7,060.7	41.2	17.6	-16.08	1,191.9	1,379.7	2,943.4	2,919.3	24.08	122.236		
9,900.0	7,441.0	7,150.0	7,060.7	42.6	17.6	-16.08	1,191.9	1,379.7	3,042.3	3,017.8	24.52	124.074		
10,000.0	7,441.0	7,140.7	7,052.6	44.0	17.6	-15.24	1,190.9	1,375.2	3,141.3	3,116.7	24.62	127.587		
10,100.0	7,441.0	7,136.5	7,049.0	45.4	17.6	-14.87	1,190.5	1,373.2	3,240.3	3,215.4	24.90	130.154		
10,200.0	7,441.0	7,125.0	7,038.8	46.9	17.7	-13.90	1,189.3	1,368.0	3,339.4	3,314.5	24.90	134.093		
10,300.0	7,441.0	7,125.0	7,038.8	48.4	17.7	-13.90	1,189.3	1,368.0	3,438.5	3,413.2	25.31	135.852		
10,400.0	7,441.0	7,125.0	7,038.8	49.8	17.7	-13.90	1,189.3	1,368.0	3,537.6	3,511.9	25.72	137.544		
10,500.0	7,441.0	7,125.0	7,038.8	51.3	17.7	-13.90	1,189.3	1,368.0	3,636.8	3,610.7	26.13	139.171		
10,600.0	7,441.0	7,116.8	7,031.5	52.9	17.7	-13.24	1,188.5	1,364.3	3,736.0	3,709.8	26.22	142.504		
10,700.0	7,441.0	7,113.1	7,028.1	54.4	17.7	-12.96	1,188.2	1,362.7	3,835.3	3,808.8	26.47	144.885		
10,800.0	7,441.0	7,109.4	7,024.8	55.9	17.8	-12.69	1,187.8	1,361.2	3,934.5	3,907.8	26.72	147.237		
10,900.0	7,441.0	7,100.0	7,016.3	57.5	17.8	-12.01	1,186.9	1,357.3	4,033.8	4,007.1	26.75	150.822		
11,000.0	7,441.0	7,100.0	7,016.3	59.1	17.8	-12.01	1,186.9	1,357.3	4,133.2	4,106.0	27.12	152.378		
11,100.0	7,441.0	7,100.0	7,016.3	60.7	17.8	-12.01	1,186.9	1,357.3	4,232.5	4,205.0	27.50	153.886		
11,200.0	7,441.0	7,100.0	7,016.3	62.2	17.8	-12.01	1,186.9	1,357.3	4,331.9	4,304.0	27.89	155.347		
11,300.0	7,441.0	7,100.0	7,016.3	63.8	17.8	-12.01	1,186.9	1,357.3	4,431.3	4,403.0	28.27	156.763		
11,400.0	7,441.0	7,089.0	7,006.2	65.4	17.9	-11.26	1,185.9	1,353.0	4,530.7	4,502.5	28.18	160.777		
11,500.0	7,441.0	7,085.8	7,003.3	67.1	17.9	-11.06	1,185.7	1,351.8	4,630.1	4,601.7	28.42	162.940		
11,600.0	7,441.0	7,075.0	6,993.3	68.7	17.9	-10.39	1,184.7	1,347.9	4,729.6	4,701.3	28.35	166.848		
11,700.0	7,441.0	7,075.0	6,993.3	70.3	17.9	-10.39	1,184.7	1,347.9	4,829.1	4,800.4	28.70	168.281		
11,800.0	7,441.0	7,075.0	6,993.3	71.9	17.9	-10.39	1,184.7	1,347.9	4,928.5	4,899.5	29.05	169.676		
11,900.0	7,441.0	7,075.0	6,993.3	73.6	17.9	-10.39	1,184.7	1,347.9	5,028.0	4,998.6	29.40	171.035		
12,000.0	7,441.0	7,075.0	6,993.3	75.2	17.9	-10.39	1,184.7	1,347.9	5,127.6	5,097.8	29.75	172.359		
12,100.0	7,441.0	7,075.0	6,993.3	76.9	17.9	-10.39	1,184.7	1,347.9	5,227.1	5,197.0	30.10	173.650		
12,135.7	7,441.0	7,075.0	6,993.3	77.5	17.9	-10.39	1,184.7	1,347.9	5,262.6	5,232.4	30.23	174.102		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #6													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	47.0	47.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6					
100.0	100.0	147.0	147.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.39	6,177.168		
200.0	200.0	247.0	247.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,242.648		
300.0	300.0	347.0	347.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,197.729		
400.0	400.0	447.0	447.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,660.983		
500.0	499.9	546.9	546.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,333.764		
600.0	599.7	646.7	646.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.13	1,113.107		
700.0	699.4	746.4	746.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	954.017		
800.0	798.9	845.9	845.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.4	2.82	833.701		
900.0	898.3	945.3	945.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	739.384		
1,000.0	997.4	1,044.4	1,044.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.51	663.343		
1,100.0	1,096.3	1,143.3	1,143.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	600.638		
1,200.0	1,194.9	1,241.9	1,241.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	547.964		
1,300.0	1,293.3	1,340.3	1,340.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.53	503.020		
1,400.0	1,391.2	1,438.2	1,438.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.159		
1,500.0	1,488.9	1,535.9	1,535.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.6	5.20	430.172		
1,600.0	1,586.1	1,633.1	1,633.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.147		
1,700.0	1,682.9	1,729.9	1,729.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.387		
1,800.0	1,779.3	1,826.3	1,826.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.19	349.347		
1,900.0	1,875.2	1,922.2	1,922.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.598		
2,000.0	1,970.8	2,017.8	2,017.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.065		
2,100.0	2,066.4	2,113.4	2,113.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.476		
2,200.0	2,162.1	2,209.1	2,209.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.568		
2,300.0	2,257.7	2,304.7	2,304.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.122		
2,400.0	2,353.3	2,400.3	2,400.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	241.955		
2,500.0	2,448.9	2,495.9	2,495.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	228.916		
2,600.0	2,544.6	2,591.6	2,591.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.873		
2,700.0	2,640.2	2,687.2	2,687.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.718		
2,800.0	2,735.8	2,782.8	2,782.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.355		
2,900.0	2,831.5	2,878.5	2,878.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.702		
3,000.0	2,927.1	2,974.1	2,974.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.689		
3,100.0	3,022.7	3,149.7	3,149.6	12.2	5.5	1.86	1,175.7	2,068.6	1,780.1	1,769.4	10.72	165.988		
3,200.0	3,118.4	3,280.2	3,279.3	12.8	5.7	1.50	1,181.7	2,056.2	1,745.0	1,733.9	11.12	156.858		
3,300.0	3,214.0	3,373.4	3,371.9	13.3	5.9	1.21	1,186.4	2,046.6	1,709.6	1,698.2	11.47	149.109		
3,400.0	3,309.6	3,466.5	3,464.4	13.9	6.1	0.91	1,191.1	2,037.0	1,674.3	1,662.5	11.81	141.769		
3,500.0	3,405.3	3,559.7	3,557.0	14.4	6.3	0.60	1,195.7	2,027.4	1,639.0	1,626.8	12.16	134.808		
3,600.0	3,500.9	3,652.9	3,649.5	15.0	6.5	0.27	1,200.4	2,017.8	1,603.7	1,591.2	12.51	128.200		
3,700.0	3,596.5	3,746.0	3,742.1	15.5	6.7	-0.08	1,205.1	2,008.2	1,568.5	1,555.6	12.86	121.922		
3,800.0	3,692.1	3,839.2	3,834.6	16.1	6.9	-0.44	1,209.8	1,998.6	1,533.3	1,520.1	13.22	115.950		
3,900.0	3,787.8	3,932.4	3,927.2	16.7	7.1	-0.81	1,214.5	1,989.0	1,498.2	1,484.6	13.59	110.264		
4,000.0	3,883.4	4,025.5	4,019.7	17.2	7.3	-1.20	1,219.1	1,979.4	1,463.2	1,449.2	13.96	104.845		
4,100.0	3,979.0	4,118.7	4,112.3	17.8	7.5	-1.62	1,223.8	1,969.8	1,428.2	1,413.9	14.33	99.674		
4,200.0	4,074.7	4,211.9	4,204.8	18.3	7.7	-2.05	1,228.5	1,960.1	1,393.3	1,378.6	14.71	94.736		
4,300.0	4,170.3	4,305.0	4,297.4	18.9	7.9	-2.51	1,233.2	1,950.5	1,358.5	1,343.4	15.09	90.013		
4,400.0	4,265.9	4,398.2	4,389.9	19.4	8.1	-2.98	1,237.9	1,940.9	1,323.7	1,308.2	15.48	85.494		
4,500.0	4,361.6	4,491.4	4,482.5	20.0	8.3	-3.49	1,242.6	1,931.3	1,289.0	1,273.1	15.88	81.163		
4,600.0	4,457.2	4,584.5	4,575.0	20.5	8.5	-4.02	1,247.2	1,921.7	1,254.4	1,238.2	16.29	77.009		
4,700.0	4,552.8	4,677.7	4,667.6	21.1	8.8	-4.58	1,251.9	1,912.1	1,220.0	1,203.3	16.71	73.021		
4,800.0	4,648.5	4,770.9	4,760.1	21.6	9.0	-5.17	1,256.6	1,902.5	1,185.6	1,168.5	17.14	69.189		
4,900.0	4,744.1	4,864.0	4,852.7	22.2	9.2	-5.80	1,261.3	1,892.9	1,151.4	1,133.8	17.58	65.503		
5,000.0	4,839.7	4,957.2	4,945.2	22.7	9.4	-6.47	1,266.0	1,883.3	1,117.2	1,099.2	18.03	61.955		
5,100.0	4,935.3	5,050.4	5,037.8	23.3	9.7	-7.18	1,270.6	1,873.6	1,083.3	1,064.8	18.51	58.536		

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 1G-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 1G-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 NSW S2-T2N-R66W (lone) - lone 3A-2H - Hz - Plan #6													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		
5,204.0	5,034.8	5,147.3	5,134.1	23.9	9.9	-7.96	1,275.5	1,863.7	1,048.1	1,029.1	19.02	55.112		
5,300.0	5,126.8	5,237.0	5,223.2	24.4	10.1	-8.67	1,280.0	1,854.4	1,016.6	997.0	19.54	52.022		
5,400.0	5,223.2	5,331.0	5,316.6	24.9	10.3	-9.45	1,284.7	1,844.7	985.5	965.4	20.10	49.024		
5,500.0	5,320.0	5,425.6	5,410.5	25.3	10.6	-10.26	1,289.5	1,834.9	956.3	935.6	20.68	46.241		
5,600.0	5,417.2	5,520.7	5,505.0	25.8	10.8	-11.10	1,294.3	1,825.1	928.9	907.7	21.28	43.662		
5,700.0	5,514.8	5,616.3	5,600.0	26.2	11.0	-11.97	1,299.1	1,815.3	903.4	881.6	21.89	41.278		
5,800.0	5,612.8	5,712.4	5,695.4	26.5	11.3	-12.87	1,303.9	1,805.4	879.8	857.3	22.51	39.081		
5,900.0	5,711.1	5,808.9	5,791.3	26.9	11.5	-13.80	1,308.8	1,795.4	858.1	835.0	23.15	37.062		
6,000.0	5,809.7	5,905.8	5,887.6	27.2	11.8	-14.74	1,313.6	1,785.4	838.3	814.5	23.81	35.213		
6,100.0	5,908.6	6,003.1	5,984.3	27.5	12.0	-15.71	1,318.5	1,775.4	820.4	796.0	24.47	33.526		
6,200.0	6,007.7	6,100.8	6,081.3	27.8	12.3	-16.68	1,323.4	1,765.3	804.5	779.3	25.14	31.996		
6,300.0	6,107.1	6,198.8	6,178.6	28.0	12.5	-17.66	1,328.4	1,755.2	790.4	764.6	25.82	30.613		
6,400.0	6,206.6	6,297.0	6,276.2	28.2	12.8	-18.64	1,333.3	1,745.1	778.2	751.7	26.50	29.372		
6,500.0	6,306.3	6,395.6	6,374.1	28.4	13.0	-19.61	1,338.2	1,734.9	768.0	740.8	27.17	28.266		
6,600.0	6,406.1	6,494.3	6,472.2	28.6	13.3	-20.57	1,343.2	1,724.7	759.5	731.7	27.84	27.287		
6,700.0	6,506.0	6,593.3	6,570.5	28.7	13.5	-21.51	1,348.2	1,714.5	753.0	724.5	28.49	26.429		
6,800.0	6,606.0	6,692.4	6,669.0	28.8	13.8	-22.42	1,353.2	1,704.3	748.3	719.1	29.13	25.686		
6,898.7	6,704.6	6,775.0	6,751.0	28.8	14.0	-23.14	1,357.3	1,695.9	745.6	715.9	29.66	25.136 CC, ES		
6,904.0	6,710.0	6,775.0	6,751.0	28.9	14.0	35.94	1,357.3	1,695.9	745.6	716.0	29.67	25.131		
6,918.8	6,724.8	6,786.8	6,762.8	28.9	14.0	35.86	1,358.0	1,695.1	745.7	716.0	29.74	25.077 SF		
6,950.0	6,756.0	6,800.0	6,776.0	28.9	14.0	-144.17	1,358.7	1,694.5	747.0	717.2	29.76	25.102		
7,000.0	6,805.8	6,825.0	6,800.9	28.9	14.1	-144.06	1,360.3	1,694.4	752.7	723.0	29.68	25.358		
7,050.0	6,855.2	6,850.0	6,825.8	28.8	14.1	-143.74	1,362.0	1,695.6	762.8	733.4	29.45	25.900		
7,100.0	6,904.0	6,875.0	6,850.6	28.8	14.1	-143.20	1,363.9	1,698.1	777.4	748.3	29.08	26.730		
7,150.0	6,952.0	6,900.0	6,875.2	28.7	14.1	-142.42	1,365.9	1,701.9	796.0	767.4	28.58	27.852		
7,200.0	6,998.8	6,915.3	6,890.2	28.6	14.1	-141.32	1,367.3	1,704.9	818.5	790.6	27.95	29.287		
7,250.0	7,044.3	6,935.1	6,909.4	28.5	14.1	-139.97	1,369.0	1,709.4	844.7	817.4	27.25	30.997		
7,300.0	7,088.2	6,950.0	6,923.7	28.3	14.1	-138.23	1,370.4	1,713.3	874.2	847.7	26.50	32.984		
7,350.0	7,130.4	6,975.0	6,947.4	28.2	14.1	-136.29	1,372.8	1,720.9	906.7	880.9	25.79	35.156		
7,400.0	7,170.6	6,986.0	6,957.7	28.0	14.1	-133.70	1,374.0	1,724.6	941.9	916.7	25.12	37.490		
7,450.0	7,208.6	7,000.0	6,970.6	27.8	14.1	-130.65	1,375.4	1,729.7	979.4	954.8	24.62	39.781		
7,500.0	7,244.3	7,012.6	6,982.2	27.7	14.0	-126.96	1,376.7	1,734.6	1,019.1	994.7	24.36	41.835		
7,550.0	7,277.4	7,025.0	6,993.4	27.5	14.0	-122.58	1,378.1	1,739.7	1,060.4	1,036.0	24.41	43.438		
7,600.0	7,307.8	7,033.3	7,000.8	27.3	14.0	-117.22	1,379.0	1,743.3	1,103.3	1,078.5	24.82	44.448		
7,650.0	7,335.4	7,041.6	7,008.2	27.2	14.0	-110.93	1,379.9	1,747.0	1,147.3	1,121.8	25.53	44.942		
7,700.0	7,360.0	7,050.0	7,015.6	27.0	14.0	-103.74	1,380.8	1,750.9	1,192.2	1,165.8	26.37	45.211		
7,750.0	7,381.6	7,050.0	7,015.6	26.9	14.0	-95.01	1,380.8	1,750.9	1,237.8	1,210.6	27.16	45.577		
7,800.0	7,399.9	7,058.2	7,022.7	26.8	14.0	-86.45	1,381.8	1,754.8	1,283.7	1,256.2	27.52	46.649		
7,850.0	7,414.9	7,061.2	7,025.3	26.7	14.0	-77.28	1,382.1	1,756.3	1,329.9	1,302.5	27.34	48.635		
7,900.0	7,426.6	7,062.9	7,026.8	26.6	14.0	-68.35	1,382.3	1,757.1	1,376.0	1,349.4	26.61	51.718		
7,950.0	7,434.9	7,063.5	7,027.3	26.5	14.0	-60.08	1,382.4	1,757.4	1,421.9	1,396.4	25.48	55.795		
8,000.0	7,439.7	7,062.9	7,026.8	26.5	14.0	-52.74	1,382.3	1,757.1	1,467.3	1,443.1	24.26	60.481		
8,043.8	7,441.0	7,061.4	7,025.5	26.5	14.0	-47.12	1,382.1	1,756.4	1,506.7	1,483.4	23.33	64.596		
8,100.0	7,441.0	7,058.9	7,023.3	26.6	14.0	-46.92	1,381.9	1,755.1	1,557.1	1,533.7	23.40	66.527		
8,200.0	7,441.0	7,050.0	7,015.6	26.7	14.0	-46.20	1,380.8	1,750.9	1,647.6	1,624.0	23.57	69.915		
8,300.0	7,441.0	7,050.0	7,015.6	27.0	14.0	-46.20	1,380.8	1,750.9	1,739.1	1,715.1	23.98	72.510		
8,400.0	7,441.0	7,050.0	7,015.6	27.4	14.0	-46.20	1,380.8	1,750.9	1,831.5	1,807.0	24.50	74.741		
8,500.0	7,441.0	7,041.7	7,008.3	27.8	14.0	-45.53	1,379.9	1,747.0	1,924.6	1,899.6	24.96	77.093		
8,600.0	7,441.0	7,037.5	7,004.6	28.4	14.0	-45.20	1,379.4	1,745.2	2,018.4	1,992.8	25.57	78.939		
8,700.0	7,441.0	7,033.4	7,000.9	29.1	14.0	-44.88	1,379.0	1,743.3	2,112.7	2,086.4	26.23	80.532		
8,800.0	7,441.0	7,025.0	6,993.4	29.9	14.0	-44.22	1,378.1	1,739.7	2,207.5	2,180.6	26.86	82.191		
8,900.0	7,441.0	7,025.0	6,993.4	30.8	14.0	-44.22	1,378.1	1,739.7	2,302.7	2,275.0	27.70	83.127		

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 1G-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 1G-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 #6													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)						
9,000.0	7,441.0	7,025.0	6,993.4	31.7	14.0	-44.22	1,378.1	1,739.7	2,398.3	2,369.7	28.59	83.893		
9,100.0	7,441.0	7,025.0	6,993.4	32.7	14.0	-44.22	1,378.1	1,739.7	2,494.2	2,464.7	29.51	84.517		
9,200.0	7,441.0	7,013.6	6,983.1	33.8	14.0	-43.35	1,376.8	1,735.0	2,590.4	2,560.2	30.16	85.874		
9,300.0	7,441.0	7,009.8	6,979.6	34.9	14.1	-43.06	1,376.4	1,733.5	2,686.8	2,655.8	31.03	86.598		
9,400.0	7,441.0	7,000.0	6,970.6	36.1	14.1	-42.34	1,375.4	1,729.7	2,783.6	2,751.8	31.73	87.728		
9,500.0	7,441.0	7,000.0	6,970.6	37.3	14.1	-42.34	1,375.4	1,729.7	2,880.5	2,847.7	32.72	88.030		
9,600.0	7,441.0	7,000.0	6,970.6	38.6	14.1	-42.34	1,375.4	1,729.7	2,977.6	2,943.8	33.73	88.274		
9,700.0	7,441.0	7,000.0	6,970.6	39.9	14.1	-42.34	1,375.4	1,729.7	3,074.8	3,040.1	34.76	88.468		
9,800.0	7,441.0	6,991.4	6,962.7	41.2	14.1	-41.71	1,374.5	1,726.5	3,172.3	3,136.8	35.50	89.363		
9,900.0	7,441.0	6,987.9	6,959.4	42.6	14.1	-41.46	1,374.1	1,725.3	3,269.8	3,233.4	36.41	89.804		
10,000.0	7,441.0	6,984.4	6,956.2	44.0	14.1	-41.21	1,373.8	1,724.1	3,367.6	3,330.2	37.33	90.222		
10,100.0	7,441.0	6,975.0	6,947.4	45.4	14.1	-40.55	1,372.8	1,720.9	3,465.4	3,427.4	38.01	91.161		
10,200.0	7,441.0	6,975.0	6,947.4	46.9	14.1	-40.55	1,372.8	1,720.9	3,563.3	3,524.3	39.06	91.235		
10,300.0	7,441.0	6,975.0	6,947.4	48.4	14.1	-40.55	1,372.8	1,720.9	3,661.4	3,621.3	40.11	91.291		
10,400.0	7,441.0	6,975.0	6,947.4	49.8	14.1	-40.55	1,372.8	1,720.9	3,759.5	3,718.4	41.16	91.331		
10,500.0	7,441.0	6,975.0	6,947.4	51.3	14.1	-40.55	1,372.8	1,720.9	3,857.8	3,815.5	42.23	91.357		
10,600.0	7,441.0	6,964.4	6,937.4	52.9	14.1	-39.83	1,371.8	1,717.5	3,956.0	3,913.2	42.82	92.391		
10,700.0	7,441.0	6,961.2	6,934.4	54.4	14.1	-39.62	1,371.5	1,716.6	4,054.4	4,010.7	43.73	92.715		
10,800.0	7,441.0	6,950.0	6,923.7	55.9	14.1	-38.88	1,370.4	1,713.3	4,152.9	4,108.6	44.26	93.827		
10,900.0	7,441.0	6,950.0	6,923.7	57.5	14.1	-38.88	1,370.4	1,713.3	4,251.4	4,206.1	45.31	93.837		
11,000.0	7,441.0	6,950.0	6,923.7	59.1	14.1	-38.88	1,370.4	1,713.3	4,350.0	4,303.6	46.36	93.840		
11,100.0	7,441.0	6,950.0	6,923.7	60.7	14.1	-38.88	1,370.4	1,713.3	4,448.6	4,401.2	47.41	93.838		
11,200.0	7,441.0	6,950.0	6,923.7	62.2	14.1	-38.88	1,370.4	1,713.3	4,547.3	4,498.8	48.46	93.830		
11,300.0	7,441.0	6,950.0	6,923.7	63.8	14.1	-38.88	1,370.4	1,713.3	4,646.0	4,596.5	49.52	93.818		
11,400.0	7,441.0	6,940.1	6,914.2	65.4	14.1	-38.25	1,369.5	1,710.7	4,744.8	4,694.8	50.05	94.810		
11,500.0	7,441.0	6,937.3	6,911.5	67.1	14.1	-38.07	1,369.2	1,709.9	4,843.6	4,792.7	50.94	95.090		
11,600.0	7,441.0	6,934.4	6,908.8	68.7	14.1	-37.90	1,369.0	1,709.2	4,942.5	4,890.7	51.83	95.366		
11,700.0	7,441.0	6,925.0	6,899.6	70.3	14.1	-37.33	1,368.1	1,707.0	5,041.4	4,989.1	52.34	96.324		
11,800.0	7,441.0	6,925.0	6,899.6	71.9	14.1	-37.33	1,368.1	1,707.0	5,140.4	5,087.0	53.37	96.312		
11,900.0	7,441.0	6,925.0	6,899.6	73.6	14.1	-37.33	1,368.1	1,707.0	5,239.3	5,184.9	54.41	96.297		
12,000.0	7,441.0	6,925.0	6,899.6	75.2	14.1	-37.33	1,368.1	1,707.0	5,338.4	5,282.9	55.45	96.281		
12,100.0	7,441.0	6,925.0	6,899.6	76.9	14.1	-37.33	1,368.1	1,707.0	5,437.4	5,380.9	56.49	96.262		
12,135.7	7,441.0	6,925.0	6,899.6	77.5	14.1	-37.33	1,368.1	1,707.0	5,472.7	5,415.9	56.86	96.256		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #7														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	47.0	47.0	0.0	0.1	60.50	1,173.1	2,073.8	2,382.6						
100.0	100.0	147.0	147.0	0.2	0.2	60.50	1,173.1	2,073.8	2,382.6	2,382.3	0.39	6,177.168			
200.0	200.0	247.0	247.0	0.3	0.4	60.50	1,173.1	2,073.8	2,382.6	2,381.9	0.73	3,242.648			
300.0	300.0	347.0	347.0	0.5	0.6	1.42	1,173.1	2,073.8	2,381.8	2,380.7	1.08	2,197.729			
400.0	400.0	447.0	447.0	0.7	0.8	1.43	1,173.1	2,073.8	2,379.2	2,377.7	1.43	1,660.983			
500.0	499.9	546.9	546.9	0.9	0.9	1.43	1,173.1	2,073.8	2,374.8	2,373.0	1.78	1,333.764			
600.0	599.7	646.7	646.7	1.1	1.1	1.44	1,173.1	2,073.8	2,368.7	2,366.6	2.13	1,113.107			
700.0	699.4	746.4	746.4	1.3	1.3	1.44	1,173.1	2,073.8	2,360.8	2,358.4	2.47	954.017			
800.0	798.9	845.9	845.9	1.5	1.5	1.45	1,173.1	2,073.8	2,351.3	2,348.4	2.82	833.701			
900.0	898.3	945.3	945.3	1.8	1.6	1.46	1,173.1	2,073.8	2,340.0	2,336.8	3.16	739.384			
1,000.0	997.4	1,044.4	1,044.4	2.0	1.8	1.47	1,173.1	2,073.8	2,326.9	2,323.4	3.51	663.343			
1,100.0	1,096.3	1,143.3	1,143.3	2.3	2.0	1.49	1,173.1	2,073.8	2,312.1	2,308.3	3.85	600.638			
1,200.0	1,194.9	1,241.9	1,241.9	2.7	2.1	1.50	1,173.1	2,073.8	2,295.6	2,291.4	4.19	547.964			
1,300.0	1,293.3	1,340.3	1,340.3	3.0	2.3	1.52	1,173.1	2,073.8	2,277.4	2,272.9	4.53	503.020			
1,400.0	1,391.2	1,438.2	1,438.2	3.4	2.5	1.54	1,173.1	2,073.8	2,257.5	2,252.6	4.86	464.159			
1,500.0	1,488.9	1,535.9	1,535.9	3.8	2.7	1.56	1,173.1	2,073.8	2,235.8	2,230.6	5.20	430.172			
1,600.0	1,586.1	1,633.1	1,633.1	4.2	2.8	1.58	1,173.1	2,073.8	2,212.5	2,207.0	5.53	400.147			
1,700.0	1,682.9	1,729.9	1,729.9	4.7	3.0	1.61	1,173.1	2,073.8	2,187.5	2,181.6	5.86	373.387			
1,800.0	1,779.3	1,826.3	1,826.3	5.2	3.2	1.63	1,173.1	2,073.8	2,160.8	2,154.6	6.19	349.347			
1,900.0	1,875.2	1,922.2	1,922.2	5.7	3.3	1.66	1,173.1	2,073.8	2,132.4	2,125.9	6.51	327.598			
2,000.0	1,970.8	2,017.8	2,017.8	6.3	3.5	1.69	1,173.1	2,073.8	2,103.2	2,096.3	6.85	307.065			
2,100.0	2,066.4	2,113.4	2,113.4	6.8	3.7	1.71	1,173.1	2,073.8	2,073.9	2,066.7	7.19	288.476			
2,200.0	2,162.1	2,209.1	2,209.1	7.3	3.8	1.74	1,173.1	2,073.8	2,044.7	2,037.2	7.53	271.568			
2,300.0	2,257.7	2,304.7	2,304.7	7.9	4.0	1.76	1,173.1	2,073.8	2,015.5	2,007.6	7.87	256.122			
2,400.0	2,353.3	2,400.3	2,400.3	8.4	4.2	1.79	1,173.1	2,073.8	1,986.3	1,978.0	8.21	241.955			
2,500.0	2,448.9	2,495.9	2,495.9	9.0	4.3	1.81	1,173.1	2,073.8	1,957.0	1,948.5	8.55	228.916			
2,600.0	2,544.6	2,591.6	2,591.6	9.5	4.5	1.84	1,173.1	2,073.8	1,927.8	1,918.9	8.89	216.873			
2,700.0	2,640.2	2,687.2	2,687.2	10.1	4.7	1.87	1,173.1	2,073.8	1,898.6	1,889.4	9.23	205.718			
2,800.0	2,735.8	2,782.8	2,782.8	10.6	4.8	1.90	1,173.1	2,073.8	1,869.4	1,859.8	9.57	195.355			
2,900.0	2,831.5	2,878.5	2,878.5	11.2	5.0	1.93	1,173.1	2,073.8	1,840.1	1,830.2	9.91	185.702			
3,000.0	2,927.1	2,974.1	2,974.1	11.7	5.2	1.96	1,173.1	2,073.8	1,810.9	1,800.7	10.25	176.689			
3,100.0	3,022.7	3,069.7	3,069.7	12.2	5.3	1.99	1,173.1	2,073.8	1,781.7	1,771.1	10.59	168.255			
3,200.0	3,118.4	3,165.4	3,165.4	12.8	5.5	2.02	1,173.1	2,073.8	1,752.5	1,741.5	10.93	160.344			
3,300.0	3,214.0	3,261.0	3,261.0	13.3	5.7	2.06	1,173.1	2,073.8	1,723.3	1,712.0	11.27	152.910			
3,400.0	3,309.6	3,356.6	3,356.6	13.9	5.8	2.09	1,173.1	2,073.8	1,694.0	1,682.4	11.61	145.911			
3,500.0	3,405.3	3,452.3	3,452.3	14.4	6.0	2.13	1,173.1	2,073.8	1,664.8	1,652.9	11.95	139.310			
3,600.0	3,500.9	3,547.9	3,547.9	15.0	6.2	2.17	1,173.1	2,073.8	1,635.6	1,623.3	12.29	133.074			
3,700.0	3,596.5	3,643.5	3,643.5	15.5	6.3	2.21	1,173.1	2,073.8	1,606.4	1,593.7	12.63	127.172			
3,800.0	3,692.1	3,739.1	3,739.1	16.1	6.5	2.25	1,173.1	2,073.8	1,577.2	1,564.2	12.97	121.580			
3,900.0	3,787.8	3,834.8	3,834.8	16.7	6.7	2.29	1,173.1	2,073.8	1,547.9	1,534.6	13.31	116.273			
4,000.0	3,883.4	3,930.4	3,930.4	17.2	6.8	2.34	1,173.1	2,073.8	1,518.7	1,505.1	13.65	111.230			
4,100.0	3,979.0	4,026.0	4,026.0	17.8	7.0	2.38	1,173.1	2,073.8	1,489.5	1,475.5	14.00	106.431			
4,200.0	4,074.7	4,121.7	4,121.7	18.3	7.2	2.43	1,173.1	2,073.8	1,460.3	1,446.0	14.34	101.860			
4,300.0	4,170.3	4,217.3	4,217.3	18.9	7.3	2.48	1,173.1	2,073.8	1,431.1	1,416.4	14.68	97.500			
4,400.0	4,265.9	4,312.9	4,312.9	19.4	7.5	2.53	1,173.1	2,073.8	1,401.9	1,386.9	15.02	93.337			
4,500.0	4,361.6	4,408.6	4,408.6	20.0	7.7	2.59	1,173.1	2,073.8	1,372.7	1,357.3	15.36	89.358			
4,600.0	4,457.2	4,504.2	4,504.2	20.5	7.8	2.64	1,173.1	2,073.8	1,343.5	1,327.8	15.70	85.551			
4,700.0	4,552.8	4,599.8	4,599.8	21.1	8.0	2.70	1,173.1	2,073.8	1,314.2	1,298.2	16.05	81.905			
4,800.0	4,648.5	4,695.5	4,695.5	21.6	8.2	2.76	1,173.1	2,073.8	1,285.0	1,268.7	16.39	78.410			
4,900.0	4,744.1	4,791.1	4,791.1	22.2	8.3	2.83	1,173.1	2,073.8	1,255.8	1,239.1	16.73	75.057			
5,000.0	4,839.7	4,886.7	4,886.7	22.7	8.5	2.89	1,173.1	2,073.8	1,226.6	1,209.6	17.08	71.838			
5,100.0	4,935.3	4,982.3	4,982.3	23.3	8.7	2.96	1,173.1	2,073.8	1,197.4	1,180.0	17.42	68.743			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 #7													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)				
5,204.0	5,034.8	5,081.8	5,081.8	23.9	8.8	3.04	1,173.1	2,073.8	1,167.1	1,149.3	17.78	65.651		
5,300.0	5,126.8	5,173.8	5,173.8	24.4	9.0	3.10	1,173.1	2,073.8	1,139.8	1,121.7	18.14	62.832		
5,400.0	5,223.2	5,270.2	5,270.2	24.9	9.2	3.16	1,173.1	2,073.8	1,113.0	1,094.5	18.52	60.109		
5,500.0	5,320.0	5,367.0	5,367.0	25.3	9.3	3.22	1,173.1	2,073.8	1,088.0	1,069.1	18.89	57.591		
5,600.0	5,417.2	5,464.2	5,464.2	25.8	9.5	3.27	1,173.1	2,073.8	1,064.6	1,045.3	19.26	55.265		
5,700.0	5,514.8	5,561.8	5,561.8	26.2	9.7	3.33	1,173.1	2,073.8	1,042.9	1,023.3	19.63	53.121		
5,800.0	5,612.8	5,659.8	5,659.8	26.5	9.9	3.38	1,173.1	2,073.8	1,023.0	1,003.0	20.00	51.149		
5,900.0	5,711.1	5,758.1	5,758.1	26.9	10.0	3.43	1,173.1	2,073.8	1,004.7	984.3	20.36	49.339		
6,000.0	5,809.7	5,856.7	5,856.7	27.2	10.2	3.48	1,173.1	2,073.8	988.1	967.4	20.72	47.683		
6,100.0	5,908.6	5,955.6	5,955.6	27.5	10.4	3.52	1,173.1	2,073.8	973.3	952.2	21.08	46.173		
6,200.0	6,007.7	6,054.7	6,054.7	27.8	10.5	3.56	1,173.1	2,073.8	960.2	938.8	21.43	44.801		
6,300.0	6,107.1	6,154.1	6,154.1	28.0	10.7	3.60	1,173.1	2,073.8	948.9	927.1	21.78	43.561		
6,400.0	6,206.6	6,253.6	6,253.6	28.2	10.9	3.63	1,173.1	2,073.8	939.2	917.1	22.13	42.446		
6,500.0	6,306.3	6,353.3	6,353.3	28.4	11.1	3.65	1,173.1	2,073.8	931.3	908.9	22.47	41.451		
6,600.0	6,406.1	6,453.1	6,453.1	28.6	11.2	3.68	1,173.1	2,073.8	925.2	902.4	22.80	40.569		
6,700.0	6,506.0	6,553.0	6,553.0	28.7	11.4	3.69	1,173.1	2,073.8	920.7	897.6	23.14	39.797		
6,800.0	6,606.0	6,653.0	6,653.0	28.8	11.6	3.70	1,173.1	2,073.8	918.1	894.6	23.46	39.128		
6,904.0	6,710.0	6,757.0	6,757.0	28.9	11.8	62.78	1,173.1	2,073.8	917.1	893.3	23.80	38.539		
6,918.8	6,724.8	6,771.8	6,771.8	28.9	11.8	62.78	1,173.1	2,073.8	917.1	893.3	23.85	38.455 CC, ES		
6,950.0	6,756.0	6,791.5	6,791.5	28.9	11.8	-117.21	1,173.1	2,073.9	917.5	893.6	23.90	38.390 SF		
7,000.0	6,805.8	6,808.6	6,808.6	28.9	11.9	-117.04	1,173.3	2,074.4	920.8	896.9	23.95	38.444		
7,050.0	6,855.2	6,825.0	6,825.0	28.8	11.9	-116.69	1,173.7	2,075.4	927.5	903.5	24.00	38.638		
7,100.0	6,904.0	6,850.0	6,849.8	28.8	11.9	-116.26	1,174.7	2,077.9	937.6	913.5	24.07	38.955		
7,150.0	6,952.0	6,850.0	6,849.8	28.7	11.9	-115.28	1,174.7	2,077.9	950.7	926.6	24.14	39.389		
7,200.0	6,998.8	6,875.0	6,874.5	28.6	12.0	-114.50	1,176.1	2,081.6	966.8	942.6	24.23	39.901		
7,250.0	7,044.3	6,887.0	6,886.3	28.5	12.0	-113.25	1,177.0	2,083.9	986.0	961.6	24.37	40.465		
7,300.0	7,088.2	6,900.0	6,898.9	28.3	12.0	-111.79	1,178.0	2,086.6	1,007.9	983.4	24.55	41.058		
7,350.0	7,130.4	6,912.8	6,911.3	28.2	12.0	-110.08	1,179.2	2,089.6	1,032.5	1,007.7	24.79	41.656		
7,400.0	7,170.6	6,925.0	6,923.0	28.0	12.1	-108.09	1,180.4	2,092.7	1,059.4	1,034.3	25.08	42.242		
7,450.0	7,208.6	6,934.6	6,932.1	27.8	12.1	-105.72	1,181.4	2,095.4	1,088.4	1,063.0	25.43	42.795		
7,500.0	7,244.3	6,950.0	6,946.8	27.7	12.1	-103.33	1,183.2	2,100.0	1,119.5	1,093.7	25.79	43.411		
7,550.0	7,277.4	6,950.0	6,946.8	27.5	12.1	-99.95	1,183.2	2,100.0	1,152.1	1,125.9	26.25	43.896		
7,600.0	7,307.8	6,959.0	6,955.2	27.3	12.1	-96.70	1,184.3	2,103.0	1,186.3	1,159.7	26.63	44.557		
7,650.0	7,335.4	6,965.1	6,960.9	27.2	12.2	-93.03	1,185.1	2,105.0	1,221.8	1,194.8	26.95	45.328		
7,700.0	7,360.0	6,975.0	6,970.1	27.0	12.2	-89.35	1,186.4	2,108.5	1,258.3	1,231.1	27.15	46.338		
7,750.0	7,381.6	6,975.0	6,970.1	26.9	12.2	-84.89	1,186.4	2,108.5	1,295.5	1,268.3	27.24	47.556		
7,800.0	7,399.9	6,975.0	6,970.1	26.8	12.2	-80.28	1,186.4	2,108.5	1,333.4	1,306.3	27.14	49.140		
7,850.0	7,414.9	6,975.0	6,970.1	26.7	12.2	-75.62	1,186.4	2,108.5	1,371.7	1,344.9	26.83	51.124		
7,900.0	7,426.6	6,975.0	6,970.1	26.6	12.2	-71.00	1,186.4	2,108.5	1,410.2	1,383.9	26.36	53.496		
7,950.0	7,434.9	6,975.0	6,970.1	26.5	12.2	-66.51	1,186.4	2,108.5	1,448.7	1,422.9	25.79	56.179		
8,000.0	7,439.7	6,975.0	6,970.1	26.5	12.2	-62.21	1,186.4	2,108.5	1,487.0	1,461.8	25.20	59.014		
8,043.8	7,441.0	6,975.0	6,970.1	26.5	12.2	-58.65	1,186.4	2,108.5	1,520.3	1,495.6	24.75	61.438		
8,100.0	7,441.0	6,975.0	6,970.1	26.6	12.2	-58.65	1,186.4	2,108.5	1,563.2	1,538.3	24.86	62.876		
8,200.0	7,441.0	6,975.0	6,970.1	26.7	12.2	-58.65	1,186.4	2,108.5	1,641.5	1,616.3	25.19	65.165		
8,300.0	7,441.0	6,975.0	6,970.1	27.0	12.2	-58.65	1,186.4	2,108.5	1,722.1	1,696.4	25.67	67.097		
8,400.0	7,441.0	6,965.6	6,961.3	27.4	12.2	-58.12	1,185.1	2,105.2	1,804.5	1,778.3	26.18	68.914		
8,500.0	7,441.0	6,962.3	6,958.3	27.8	12.1	-57.94	1,184.7	2,104.1	1,888.7	1,861.8	26.88	70.275		
8,600.0	7,441.0	6,950.0	6,946.8	28.4	12.1	-57.26	1,183.2	2,100.0	1,974.3	1,946.8	27.57	71.619		
8,700.0	7,441.0	6,950.0	6,946.8	29.1	12.1	-57.26	1,183.2	2,100.0	2,061.2	2,032.7	28.47	72.397		
8,800.0	7,441.0	6,950.0	6,946.8	29.9	12.1	-57.26	1,183.2	2,100.0	2,149.1	2,119.7	29.45	72.982		
8,900.0	7,441.0	6,950.0	6,946.8	30.8	12.1	-57.26	1,183.2	2,100.0	2,238.1	2,207.6	30.49	73.411		
9,000.0	7,441.0	6,950.0	6,946.8	31.7	12.1	-57.26	1,183.2	2,100.0	2,328.0	2,296.4	31.58	73.715		

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 1G-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 1G-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 #7													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		
9,100.0	7,441.0	6,950.0	6,946.8	32.7	12.1	-57.26	1,183.2	2,100.0	2,418.7	2,385.9	32.72	73.921		
9,200.0	7,441.0	6,950.0	6,946.8	33.8	12.1	-57.26	1,183.2	2,100.0	2,510.0	2,476.2	33.90	74.048		
9,300.0	7,441.0	6,939.9	6,937.2	34.9	12.1	-56.70	1,182.0	2,096.9	2,602.0	2,567.0	34.95	74.456		
9,400.0	7,441.0	6,937.5	6,934.9	36.1	12.1	-56.57	1,181.7	2,096.2	2,694.5	2,658.4	36.14	74.565		
9,500.0	7,441.0	6,935.1	6,932.7	37.3	12.1	-56.44	1,181.5	2,095.5	2,787.6	2,750.2	37.35	74.639		
9,600.0	7,441.0	6,925.0	6,923.0	38.6	12.1	-55.90	1,180.4	2,092.7	2,881.1	2,842.7	38.43	74.969		
9,700.0	7,441.0	6,925.0	6,923.0	39.9	12.1	-55.90	1,180.4	2,092.7	2,975.0	2,935.3	39.71	74.915		
9,800.0	7,441.0	6,925.0	6,923.0	41.2	12.1	-55.90	1,180.4	2,092.7	3,069.3	3,028.3	41.01	74.845		
9,900.0	7,441.0	6,925.0	6,923.0	42.6	12.1	-55.90	1,180.4	2,092.7	3,163.9	3,121.6	42.32	74.762		
10,000.0	7,441.0	6,925.0	6,923.0	44.0	12.1	-55.90	1,180.4	2,092.7	3,258.8	3,215.2	43.64	74.671		
10,100.0	7,441.0	6,925.0	6,923.0	45.4	12.1	-55.90	1,180.4	2,092.7	3,354.1	3,309.1	44.98	74.574		
10,200.0	7,441.0	6,925.0	6,923.0	46.9	12.1	-55.90	1,180.4	2,092.7	3,449.6	3,403.3	46.32	74.473		
10,300.0	7,441.0	6,925.0	6,923.0	48.4	12.1	-55.90	1,180.4	2,092.7	3,545.4	3,497.7	47.67	74.370		
10,400.0	7,441.0	6,925.0	6,923.0	49.8	12.1	-55.90	1,180.4	2,092.7	3,641.3	3,592.3	49.03	74.265		
10,500.0	7,441.0	6,925.0	6,923.0	51.3	12.1	-55.90	1,180.4	2,092.7	3,737.5	3,687.1	50.40	74.160		
10,600.0	7,441.0	6,913.3	6,911.7	52.9	12.0	-55.27	1,179.2	2,089.7	3,833.8	3,782.4	51.45	74.518		
10,700.0	7,441.0	6,911.6	6,910.1	54.4	12.0	-55.19	1,179.1	2,089.3	3,930.4	3,877.6	52.77	74.484		
10,800.0	7,441.0	6,900.0	6,898.9	55.9	12.0	-54.58	1,178.0	2,086.6	4,027.1	3,973.3	53.80	74.853		
10,900.0	7,441.0	6,900.0	6,898.9	57.5	12.0	-54.58	1,178.0	2,086.6	4,124.0	4,068.8	55.17	74.756		
11,000.0	7,441.0	6,900.0	6,898.9	59.1	12.0	-54.58	1,178.0	2,086.6	4,221.0	4,164.4	56.54	74.660		
11,100.0	7,441.0	6,900.0	6,898.9	60.7	12.0	-54.58	1,178.0	2,086.6	4,318.1	4,260.2	57.91	74.567		
11,200.0	7,441.0	6,900.0	6,898.9	62.2	12.0	-54.58	1,178.0	2,086.6	4,415.4	4,356.1	59.29	74.475		
11,300.0	7,441.0	6,900.0	6,898.9	63.8	12.0	-54.58	1,178.0	2,086.6	4,512.7	4,452.1	60.67	74.386		
11,400.0	7,441.0	6,900.0	6,898.9	65.4	12.0	-54.58	1,178.0	2,086.6	4,610.2	4,548.2	62.05	74.299		
11,500.0	7,441.0	6,900.0	6,898.9	67.1	12.0	-54.58	1,178.0	2,086.6	4,707.8	4,644.4	63.43	74.215		
11,600.0	7,441.0	6,900.0	6,898.9	68.7	12.0	-54.58	1,178.0	2,086.6	4,805.5	4,740.7	64.82	74.132		
11,700.0	7,441.0	6,900.0	6,898.9	70.3	12.0	-54.58	1,178.0	2,086.6	4,903.3	4,837.1	66.21	74.052		
11,800.0	7,441.0	6,900.0	6,898.9	71.9	12.0	-54.58	1,178.0	2,086.6	5,001.1	4,933.5	67.61	73.974		
11,900.0	7,441.0	6,900.0	6,898.9	73.6	12.0	-54.58	1,178.0	2,086.6	5,099.1	5,030.1	69.00	73.899		
12,000.0	7,441.0	6,900.0	6,898.9	75.2	12.0	-54.58	1,178.0	2,086.6	5,197.1	5,126.7	70.40	73.825		
12,100.0	7,441.0	6,900.0	6,898.9	76.9	12.0	-54.58	1,178.0	2,086.6	5,295.2	5,223.4	71.80	73.754		
12,135.7	7,441.0	6,900.0	6,898.9	77.5	12.0	-54.58	1,178.0	2,086.6	5,330.2	5,257.9	72.29	73.729		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3B-2H - 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	47.0	47.0	0.0	0.1	59.86	1,191.3	2,051.5	2,372.3					
100.0	100.0	147.0	147.0	0.2	0.2	59.86	1,191.3	2,051.5	2,372.3	2,371.9	0.39	6,150.357		
200.0	200.0	247.0	247.0	0.3	0.4	59.86	1,191.3	2,051.5	2,372.3	2,371.6	0.73	3,228.573		
300.0	300.0	347.0	347.0	0.5	0.6	0.78	1,191.3	2,051.5	2,371.4	2,370.3	1.08	2,188.187		
400.0	400.0	447.0	447.0	0.7	0.8	0.78	1,191.3	2,051.5	2,368.8	2,367.4	1.43	1,653.766		
500.0	499.9	546.9	546.9	0.9	0.9	0.78	1,191.3	2,051.5	2,364.5	2,362.7	1.78	1,327.962		
600.0	599.7	646.7	646.7	1.1	1.1	0.78	1,191.3	2,051.5	2,358.3	2,356.2	2.13	1,108.257		
700.0	699.4	746.4	746.4	1.3	1.3	0.79	1,191.3	2,051.5	2,350.5	2,348.0	2.47	949.851		
800.0	798.9	845.9	845.9	1.5	1.5	0.79	1,191.3	2,051.5	2,340.9	2,338.1	2.82	830.053		
900.0	898.3	945.3	945.3	1.8	1.6	0.80	1,191.3	2,051.5	2,329.6	2,326.4	3.16	736.139		
1,000.0	997.4	1,044.4	1,044.4	2.0	1.8	0.80	1,191.3	2,051.5	2,316.5	2,313.0	3.51	660.423		
1,100.0	1,096.3	1,143.3	1,143.3	2.3	2.0	0.81	1,191.3	2,051.5	2,301.8	2,297.9	3.85	597.986		
1,200.0	1,194.9	1,241.9	1,241.9	2.7	2.1	0.82	1,191.3	2,051.5	2,285.3	2,281.1	4.19	545.535		
1,300.0	1,293.3	1,340.3	1,340.3	3.0	2.3	0.83	1,191.3	2,051.5	2,267.0	2,262.5	4.53	500.782		
1,400.0	1,391.2	1,438.2	1,438.2	3.4	2.5	0.84	1,191.3	2,051.5	2,247.1	2,242.2	4.86	462.086		
1,500.0	1,488.9	1,535.9	1,535.9	3.8	2.7	0.85	1,191.3	2,051.5	2,225.5	2,220.3	5.20	428.243		
1,600.0	1,586.1	1,633.1	1,633.1	4.2	2.8	0.86	1,191.3	2,051.5	2,202.1	2,196.6	5.53	398.345		
1,700.0	1,682.9	1,729.9	1,729.9	4.7	3.0	0.87	1,191.3	2,051.5	2,177.1	2,171.2	5.86	371.697		
1,800.0	1,779.3	1,826.3	1,826.3	5.2	3.2	0.89	1,191.3	2,051.5	2,150.4	2,144.2	6.18	347.760		
1,900.0	1,875.2	1,922.2	1,922.2	5.7	3.3	0.91	1,191.3	2,051.5	2,122.0	2,115.5	6.51	326.103		
2,000.0	1,970.8	2,017.8	2,017.8	6.3	3.5	0.92	1,191.3	2,051.5	2,092.7	2,085.9	6.85	305.655		
2,100.0	2,066.4	2,113.4	2,113.4	6.8	3.7	0.93	1,191.3	2,051.5	2,063.5	2,056.3	7.19	287.144		
2,200.0	2,162.1	2,209.1	2,209.1	7.3	3.8	0.95	1,191.3	2,051.5	2,034.3	2,026.7	7.53	270.306		
2,300.0	2,257.7	2,304.7	2,304.7	7.9	4.0	0.96	1,191.3	2,051.5	2,005.0	1,997.2	7.87	254.923		
2,400.0	2,353.3	2,400.3	2,400.3	8.4	4.2	0.97	1,191.3	2,051.5	1,975.8	1,967.6	8.20	240.815		
2,500.0	2,448.9	2,495.9	2,495.9	9.0	4.3	0.99	1,191.3	2,051.5	1,946.6	1,938.0	8.54	227.828		
2,600.0	2,544.6	2,591.6	2,591.6	9.5	4.5	1.00	1,191.3	2,051.5	1,917.3	1,908.5	8.88	215.835		
2,700.0	2,640.2	2,687.2	2,687.2	10.1	4.7	1.02	1,191.3	2,051.5	1,888.1	1,878.9	9.22	204.725		
2,800.0	2,735.8	2,782.8	2,782.8	10.6	4.8	1.03	1,191.3	2,051.5	1,858.9	1,849.3	9.56	194.404		
2,900.0	2,831.5	2,878.5	2,878.5	11.2	5.0	1.05	1,191.3	2,051.5	1,829.6	1,819.7	9.90	184.791		
3,000.0	2,927.1	2,974.1	2,974.1	11.7	5.2	1.07	1,191.3	2,051.5	1,800.4	1,790.2	10.24	175.814		
3,100.0	3,022.7	3,053.3	3,053.3	12.2	5.3	1.07	1,191.8	2,051.5	1,771.5	1,760.9	10.55	167.885		
3,200.0	3,118.4	3,126.9	3,126.8	12.8	5.4	1.01	1,194.1	2,051.5	1,743.8	1,732.9	10.85	160.658		
3,300.0	3,214.0	3,200.0	3,199.8	13.3	5.6	0.90	1,198.3	2,051.5	1,717.3	1,706.1	11.16	153.933		
3,400.0	3,309.6	3,275.1	3,274.7	13.9	5.7	0.73	1,204.5	2,051.5	1,692.1	1,680.6	11.46	147.591		
3,500.0	3,405.3	3,336.9	3,336.2	14.4	5.8	0.55	1,210.9	2,051.8	1,668.4	1,656.6	11.75	141.982		
3,600.0	3,500.9	3,400.0	3,398.9	15.0	5.9	0.39	1,217.4	2,054.1	1,647.1	1,635.1	12.04	136.824		
3,700.0	3,596.5	3,449.8	3,448.3	15.5	6.0	0.30	1,222.5	2,057.4	1,628.3	1,616.0	12.30	132.346		
3,800.0	3,692.1	3,500.0	3,498.0	16.1	6.1	0.23	1,227.6	2,062.0	1,612.0	1,599.5	12.57	128.264		
3,900.0	3,787.8	3,565.1	3,562.3	16.7	6.3	0.17	1,234.2	2,069.9	1,598.2	1,585.4	12.86	124.288		
4,000.0	3,883.4	3,623.4	3,619.6	17.2	6.4	0.16	1,240.0	2,078.9	1,587.0	1,573.9	13.14	120.803		
4,100.0	3,979.0	3,700.0	3,694.4	17.8	6.6	0.20	1,247.5	2,093.3	1,578.5	1,565.1	13.45	117.400		
4,200.0	4,074.7	3,740.7	3,734.0	18.3	6.7	0.24	1,251.5	2,102.3	1,572.3	1,558.6	13.69	114.823		
4,300.0	4,170.3	3,827.6	3,817.9	18.9	6.9	0.37	1,259.8	2,122.9	1,568.2	1,554.2	14.02	111.843		
4,400.0	4,265.9	3,927.4	3,914.4	19.4	7.2	0.52	1,269.4	2,146.8	1,564.3	1,550.0	14.37	108.833		
4,500.0	4,361.6	4,027.2	4,010.9	20.0	7.6	0.67	1,278.9	2,170.6	1,560.4	1,545.7	14.73	105.959		
4,600.0	4,457.2	4,127.1	4,107.3	20.5	7.9	0.82	1,288.5	2,194.5	1,556.5	1,541.5	15.08	103.214		
4,700.0	4,552.8	4,226.9	4,203.8	21.1	8.3	0.97	1,298.1	2,218.3	1,552.7	1,537.2	15.44	100.590		
4,800.0	4,648.5	4,326.8	4,300.3	21.6	8.6	1.12	1,307.6	2,242.2	1,548.8	1,533.0	15.79	98.079		
4,900.0	4,744.1	4,426.6	4,396.8	22.2	9.0	1.28	1,317.2	2,266.0	1,544.9	1,528.8	16.15	95.675		
5,000.0	4,839.7	4,526.4	4,493.2	22.7	9.4	1.43	1,326.8	2,289.9	1,541.1	1,524.6	16.50	93.371		
5,100.0	4,935.3	4,626.3	4,589.7	23.3	9.8	1.59	1,336.3	2,313.8	1,537.2	1,520.4	16.86	91.161		

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 1G-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 1G-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 NSW S2-T2N-R66W (lone) - lone 3B-2H - 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)				
5,204.0	5,034.8	4,730.1	4,690.0	23.9	10.2	1.75	1,346.3	2,338.6	1,533.3	1,516.0	17.24	88.956		
5,300.0	5,126.8	4,826.0	4,782.7	24.4	10.6	1.90	1,355.4	2,361.5	1,530.4	1,512.8	17.61	86.925		
5,400.0	5,223.2	4,925.9	4,879.2	24.9	11.0	2.05	1,365.0	2,385.3	1,529.2	1,511.2	17.99	85.008		
5,421.6	5,244.1	4,947.5	4,900.1	25.0	11.1	2.08	1,367.1	2,390.5	1,529.1	1,511.0	18.07	84.619 CC, ES		
5,500.0	5,320.0	5,025.8	4,975.8	25.3	11.5	2.20	1,374.6	2,409.2	1,529.6	1,511.3	18.37	83.281		
5,600.0	5,417.2	5,125.7	5,072.3	25.8	11.9	2.35	1,384.2	2,433.1	1,531.9	1,513.2	18.74	81.733		
5,700.0	5,514.8	5,225.5	5,168.8	26.2	12.3	2.50	1,393.7	2,456.9	1,535.9	1,516.8	19.11	80.353		
5,800.0	5,612.8	5,325.3	5,265.2	26.5	12.8	2.64	1,403.3	2,480.8	1,541.7	1,522.2	19.48	79.133		
5,900.0	5,711.1	5,425.0	5,361.5	26.9	13.2	2.78	1,412.8	2,504.6	1,549.2	1,529.3	19.85	78.063		
6,000.0	5,809.7	5,524.5	5,457.6	27.2	13.7	2.92	1,422.4	2,528.4	1,558.4	1,538.2	20.20	77.135		
6,100.0	5,908.6	5,623.8	5,553.6	27.5	14.1	3.05	1,431.9	2,552.1	1,569.4	1,548.9	20.56	76.342		
6,200.0	6,007.7	5,722.9	5,649.4	27.8	14.6	3.18	1,441.4	2,575.8	1,582.1	1,561.2	20.91	75.678		
6,300.0	6,107.1	5,821.8	5,745.0	28.0	15.0	3.31	1,450.8	2,599.4	1,596.6	1,575.4	21.25	75.136		
6,400.0	6,206.6	5,920.4	5,840.3	28.2	15.5	3.43	1,460.3	2,623.0	1,612.8	1,591.2	21.59	74.711		
6,500.0	6,306.3	6,018.8	5,935.3	28.4	15.9	3.54	1,469.7	2,646.5	1,630.7	1,608.8	21.92	74.397		
6,600.0	6,406.1	6,116.8	6,030.0	28.6	16.4	3.66	1,479.1	2,669.9	1,650.3	1,628.1	22.25	74.189		
6,700.0	6,506.0	6,214.5	6,124.4	28.7	16.8	3.76	1,488.5	2,693.2	1,671.7	1,649.1	22.56	74.083		
6,800.0	6,606.0	6,311.7	6,218.4	28.8	17.3	3.86	1,497.8	2,716.5	1,694.7	1,671.9	22.88	74.076		
6,904.0	6,710.0	6,412.5	6,315.7	28.9	17.7	63.05	1,507.4	2,740.6	1,720.5	1,697.3	23.20	74.168		
6,918.8	6,724.8	6,426.8	6,329.6	28.9	17.8	63.06	1,508.8	2,744.0	1,724.3	1,701.0	23.25	74.168		
6,950.0	6,756.0	6,456.8	6,358.6	28.9	18.0	-116.33	1,511.7	2,751.2	1,732.6	1,709.2	23.34	74.234		
7,000.0	6,805.8	6,504.6	6,404.7	28.9	18.2	-115.32	1,516.3	2,762.6	1,747.1	1,723.6	23.49	74.371		
7,050.0	6,855.2	6,551.7	6,450.2	28.8	18.4	-114.29	1,520.8	2,773.8	1,763.0	1,739.4	23.66	74.520		
7,100.0	6,904.0	6,597.8	6,494.8	28.8	18.6	-113.22	1,525.2	2,784.8	1,780.3	1,756.5	23.84	74.664		
7,150.0	6,952.0	6,642.8	6,538.2	28.7	18.8	-112.12	1,529.5	2,795.6	1,799.0	1,774.9	24.06	74.785		
7,200.0	6,998.8	6,686.3	6,580.3	28.6	19.0	-110.97	1,533.7	2,806.0	1,818.9	1,794.6	24.30	74.868		
7,250.0	7,044.3	6,728.3	6,620.9	28.5	19.2	-109.75	1,537.7	2,816.0	1,840.2	1,815.6	24.57	74.899		
7,300.0	7,088.2	6,768.5	6,659.7	28.3	19.4	-108.46	1,541.5	2,825.6	1,862.6	1,837.8	24.88	74.867		
7,350.0	7,130.4	6,806.7	6,696.6	28.2	19.6	-107.07	1,545.2	2,834.7	1,886.3	1,861.1	25.23	74.766		
7,400.0	7,170.6	6,842.6	6,731.4	28.0	19.8	-105.56	1,548.6	2,843.3	1,911.2	1,885.6	25.62	74.600		
7,450.0	7,208.6	6,876.3	6,763.9	27.8	19.9	-103.93	1,551.9	2,851.4	1,937.2	1,911.1	26.04	74.379		
7,500.0	7,244.3	6,907.4	6,793.9	27.7	20.1	-102.15	1,554.8	2,858.8	1,964.3	1,937.8	26.50	74.126		
7,550.0	7,277.4	6,935.8	6,821.4	27.5	20.2	-100.20	1,557.6	2,865.6	1,992.4	1,965.4	26.97	73.877		
7,600.0	7,307.8	6,961.4	6,846.1	27.3	20.3	-98.07	1,560.0	2,871.7	2,021.5	1,994.1	27.44	73.677		
7,650.0	7,335.4	6,984.1	6,868.0	27.2	20.4	-95.74	1,562.2	2,877.1	2,051.6	2,023.7	27.88	73.582 SF		
7,700.0	7,360.0	7,003.7	6,887.0	27.0	20.5	-93.21	1,564.1	2,881.8	2,082.4	2,054.1	28.27	73.655		
7,750.0	7,381.6	7,020.2	6,902.9	26.9	20.6	-90.48	1,565.6	2,885.8	2,114.0	2,085.4	28.58	73.960		
7,800.0	7,399.9	7,033.4	6,915.7	26.8	20.7	-87.55	1,566.9	2,888.9	2,146.2	2,117.4	28.79	74.558		
7,850.0	7,414.9	7,043.4	6,925.4	26.7	20.7	-84.44	1,567.9	2,891.3	2,178.9	2,150.0	28.86	75.501		
7,900.0	7,426.6	7,050.0	6,931.8	26.6	20.8	-81.17	1,568.5	2,892.9	2,212.0	2,183.2	28.79	76.820		
7,950.0	7,434.9	7,053.3	6,934.9	26.5	20.8	-77.77	1,568.8	2,893.7	2,245.2	2,216.6	28.60	78.511		
8,000.0	7,439.7	7,053.1	6,934.8	26.5	20.8	-74.29	1,568.8	2,893.6	2,278.6	2,250.3	28.30	80.524		
8,043.8	7,441.0	7,050.2	6,932.0	26.5	20.8	-71.21	1,568.5	2,892.9	2,307.7	2,279.8	27.98	82.464		
8,100.0	7,441.0	7,044.9	6,926.8	26.6	20.7	-71.04	1,568.0	2,891.7	2,345.4	2,317.3	28.07	83.542		
8,200.0	7,441.0	7,035.3	6,917.5	26.7	20.7	-70.72	1,567.1	2,889.4	2,414.1	2,385.8	28.38	85.074		
8,300.0	7,441.0	7,025.7	6,908.3	27.0	20.6	-70.41	1,566.2	2,887.1	2,485.0	2,456.1	28.85	86.131		
8,400.0	7,441.0	7,016.1	6,899.0	27.4	20.6	-70.09	1,565.3	2,884.8	2,557.7	2,528.3	29.48	86.765		
8,500.0	7,441.0	7,006.5	6,889.7	27.8	20.6	-69.78	1,564.3	2,882.5	2,632.3	2,602.0	30.24	87.048		
8,600.0	7,441.0	6,997.0	6,880.5	28.4	20.5	-69.47	1,563.4	2,880.2	2,708.4	2,677.3	31.11	87.052		
8,700.0	7,441.0	6,987.4	6,871.2	29.1	20.5	-69.15	1,562.5	2,877.9	2,786.0	2,753.9	32.08	86.846		
8,800.0	7,441.0	6,977.8	6,862.0	29.9	20.4	-68.84	1,561.6	2,875.6	2,864.9	2,831.8	33.12	86.489		
8,900.0	7,441.0	6,968.2	6,852.7	30.8	20.4	-68.53	1,560.7	2,873.3	2,945.1	2,910.9	34.23	86.028		

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 1G-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 1G-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 3B-2H - 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			
9,000.0	7,441.0	6,958.6	6,843.5	31.7	20.3	-68.22	1,559.8	2,871.1	3,026.5	2,991.1	35.40	85.502		
9,100.0	7,441.0	6,949.0	6,834.2	32.7	20.3	-67.90	1,558.8	2,868.8	3,108.9	3,072.3	36.60	84.939		
9,200.0	7,441.0	6,939.5	6,824.9	33.8	20.2	-67.59	1,557.9	2,866.5	3,192.3	3,154.4	37.84	84.361		
9,300.0	7,441.0	6,929.9	6,815.7	34.9	20.2	-67.28	1,557.0	2,864.2	3,276.6	3,237.5	39.11	83.782		
9,400.0	7,441.0	6,920.3	6,806.4	36.1	20.1	-66.97	1,556.1	2,861.9	3,361.7	3,321.3	40.40	83.214		
9,500.0	7,441.0	6,910.7	6,797.2	37.3	20.1	-66.66	1,555.2	2,859.6	3,447.6	3,405.9	41.71	82.664		
9,600.0	7,441.0	6,901.1	6,787.9	38.6	20.1	-66.35	1,554.2	2,857.3	3,534.2	3,491.2	43.03	82.137		
9,700.0	7,441.0	6,891.6	6,778.6	39.9	20.0	-66.05	1,553.3	2,855.0	3,621.5	3,577.1	44.36	81.636		
9,800.0	7,441.0	6,882.0	6,769.4	41.2	20.0	-65.74	1,552.4	2,852.7	3,709.4	3,663.7	45.70	81.163		
9,900.0	7,441.0	6,872.4	6,760.1	42.6	19.9	-65.43	1,551.5	2,850.5	3,797.8	3,750.8	47.05	80.718		
10,000.0	7,441.0	6,862.8	6,750.9	44.0	19.9	-65.13	1,550.6	2,848.2	3,886.8	3,838.4	48.40	80.302		
10,100.0	7,441.0	6,853.2	6,741.6	45.4	19.8	-64.82	1,549.7	2,845.9	3,976.3	3,926.6	49.76	79.915		
10,200.0	7,441.0	6,843.6	6,732.3	46.9	19.8	-64.51	1,548.7	2,843.6	4,066.3	4,015.2	51.11	79.555		
10,300.0	7,441.0	6,834.1	6,723.1	48.4	19.7	-64.21	1,547.8	2,841.3	4,156.7	4,104.3	52.47	79.222		
10,400.0	7,441.0	6,824.5	6,713.8	49.8	19.7	-63.91	1,546.9	2,839.0	4,247.5	4,193.7	53.82	78.915		
10,500.0	7,441.0	6,814.9	6,704.6	51.3	19.6	-63.60	1,546.0	2,836.7	4,338.7	4,283.6	55.18	78.633		
10,600.0	7,441.0	6,805.3	6,695.3	52.9	19.6	-63.30	1,545.1	2,834.4	4,430.3	4,373.8	56.53	78.374		
10,700.0	7,441.0	6,795.7	6,686.1	54.4	19.6	-63.00	1,544.1	2,832.1	4,522.2	4,464.3	57.87	78.138		
10,800.0	7,441.0	6,786.2	6,676.8	55.9	19.5	-62.70	1,543.2	2,829.8	4,614.4	4,555.2	59.22	77.923		
10,900.0	7,441.0	6,776.6	6,667.5	57.5	19.5	-62.40	1,542.3	2,827.6	4,706.9	4,646.4	60.56	77.729		
11,000.0	7,441.0	6,767.0	6,658.3	59.1	19.4	-62.10	1,541.4	2,825.3	4,799.7	4,737.8	61.89	77.554		
11,100.0	7,441.0	6,757.4	6,649.0	60.7	19.4	-61.80	1,540.5	2,823.0	4,892.8	4,829.5	63.22	77.397		
11,200.0	7,441.0	6,747.8	6,639.8	62.2	19.3	-61.50	1,539.6	2,820.7	4,986.1	4,921.5	64.54	77.258		
11,300.0	7,441.0	6,738.3	6,630.5	63.8	19.3	-61.20	1,538.6	2,818.4	5,079.6	5,013.8	65.85	77.135		
11,400.0	7,441.0	6,728.7	6,621.2	65.4	19.2	-60.91	1,537.7	2,816.1	5,173.4	5,106.2	67.16	77.029		
11,500.0	7,441.0	6,719.1	6,612.0	67.1	19.2	-60.61	1,536.8	2,813.8	5,267.4	5,198.9	68.46	76.937		
11,600.0	7,441.0	6,709.5	6,602.7	68.7	19.1	-60.32	1,535.9	2,811.5	5,361.5	5,291.8	69.76	76.859		
11,700.0	7,441.0	6,699.9	6,593.5	70.3	19.1	-60.03	1,535.0	2,809.2	5,455.9	5,384.9	71.05	76.795		
11,800.0	7,441.0	6,690.3	6,584.2	71.9	19.1	-59.73	1,534.1	2,807.0	5,550.5	5,478.1	72.32	76.744		
11,900.0	7,441.0	6,680.8	6,575.0	73.6	19.0	-59.44	1,533.1	2,804.7	5,645.2	5,571.6	73.60	76.705		
12,000.0	7,441.0	6,671.2	6,565.7	75.2	19.0	-59.15	1,532.2	2,802.4	5,740.1	5,665.2	74.86	76.677		
12,100.0	7,441.0	6,661.6	6,556.4	76.9	18.9	-58.86	1,531.3	2,800.1	5,835.1	5,759.0	76.12	76.661		
12,135.7	7,441.0	6,658.2	6,553.1	77.5	18.9	-58.76	1,531.0	2,799.3	5,869.0	5,792.5	76.56	76.658		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3B-2H - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	47.0	47.0	0.0	0.1	59.86	1,191.3	2,051.5	2,372.3						
100.0	100.0	147.0	147.0	0.2	0.2	59.86	1,191.3	2,051.5	2,372.3	2,371.9	0.39	6,150.357			
200.0	200.0	247.0	247.0	0.3	0.4	59.86	1,191.3	2,051.5	2,372.3	2,371.6	0.73	3,228.573			
300.0	300.0	347.0	347.0	0.5	0.6	0.78	1,191.3	2,051.5	2,371.4	2,370.3	1.08	2,188.187			
400.0	400.0	438.9	438.9	0.7	0.7	0.77	1,191.5	2,051.5	2,368.9	2,367.5	1.42	1,670.056			
500.0	499.9	521.6	521.6	0.9	0.9	0.75	1,192.6	2,051.5	2,365.2	2,363.5	1.74	1,361.264			
600.0	599.7	600.0	600.0	1.1	1.0	0.71	1,194.8	2,051.5	2,360.6	2,358.5	2.05	1,151.616			
700.0	699.4	687.0	686.9	1.3	1.2	0.63	1,198.5	2,051.5	2,354.9	2,352.5	2.38	989.089			
800.0	798.9	769.5	769.3	1.5	1.3	0.54	1,203.2	2,051.5	2,348.2	2,345.5	2.71	867.039			
900.0	898.3	851.9	851.4	1.8	1.5	0.41	1,209.1	2,051.5	2,340.5	2,337.4	3.04	769.717			
1,000.0	997.4	934.2	933.4	2.0	1.7	0.27	1,216.2	2,051.5	2,331.8	2,328.4	3.38	690.085			
1,100.0	1,096.3	1,019.6	1,018.4	2.3	1.9	0.08	1,224.8	2,051.5	2,322.1	2,318.4	3.73	622.609			
1,200.0	1,194.9	1,118.6	1,116.8	2.7	2.1	-0.14	1,235.1	2,051.5	2,310.9	2,306.8	4.11	562.029			
1,300.0	1,293.3	1,217.3	1,215.1	3.0	2.3	-0.36	1,245.4	2,051.5	2,298.1	2,293.6	4.49	511.257			
1,400.0	1,391.2	1,315.9	1,313.0	3.4	2.6	-0.59	1,255.7	2,051.5	2,283.5	2,278.6	4.88	468.129			
1,500.0	1,488.9	1,414.1	1,410.8	3.8	2.8	-0.82	1,266.0	2,051.5	2,267.3	2,262.0	5.26	431.041			
1,600.0	1,586.1	1,512.1	1,508.2	4.2	3.1	-1.06	1,276.3	2,051.5	2,249.4	2,243.7	5.64	398.795			
1,700.0	1,682.9	1,609.7	1,605.3	4.7	3.3	-1.30	1,286.5	2,051.5	2,229.8	2,223.7	6.02	370.478			
1,800.0	1,779.3	1,707.0	1,702.0	5.2	3.5	-1.55	1,296.6	2,051.5	2,208.5	2,202.1	6.39	345.386			
1,900.0	1,875.2	1,804.9	1,799.4	5.7	3.8	-1.81	1,306.9	2,051.5	2,185.6	2,178.8	6.77	322.892			
2,000.0	1,970.8	1,926.6	1,920.5	6.3	4.0	-2.10	1,318.2	2,051.5	2,161.2	2,154.0	7.20	300.316			
2,100.0	2,066.4	2,047.9	2,041.6	6.8	4.3	-2.34	1,326.9	2,051.5	2,135.8	2,128.2	7.61	280.783			
2,200.0	2,162.1	2,168.8	2,162.2	7.3	4.5	-2.53	1,333.1	2,051.5	2,109.3	2,101.3	8.00	263.683			
2,300.0	2,257.7	2,289.0	2,282.5	7.9	4.7	-2.66	1,336.7	2,051.5	2,081.6	2,073.2	8.38	248.545			
2,400.0	2,353.3	2,406.9	2,400.3	8.4	4.9	-2.73	1,337.7	2,051.5	2,052.9	2,044.2	8.73	235.068			
2,500.0	2,448.9	2,502.5	2,495.9	9.0	5.0	-2.77	1,337.7	2,051.5	2,023.7	2,014.6	9.06	223.427			
2,600.0	2,544.6	2,598.2	2,591.6	9.5	5.2	-2.81	1,337.7	2,051.5	1,994.5	1,985.1	9.38	212.565			
2,700.0	2,640.2	2,693.8	2,687.2	10.1	5.3	-2.85	1,337.7	2,051.5	1,965.3	1,955.6	9.71	202.409			
2,800.0	2,735.8	2,789.4	2,782.8	10.6	5.5	-2.89	1,337.7	2,051.5	1,936.1	1,926.0	10.04	192.896			
2,900.0	2,831.5	2,885.0	2,878.5	11.2	5.6	-2.94	1,337.7	2,051.5	1,906.9	1,896.5	10.37	183.967			
3,000.0	2,927.1	2,980.7	2,974.1	11.7	5.8	-2.98	1,337.7	2,051.5	1,877.7	1,867.0	10.69	175.572			
3,100.0	3,022.7	3,076.3	3,069.7	12.2	5.9	-3.03	1,337.7	2,051.5	1,848.5	1,837.4	11.02	167.667			
3,200.0	3,118.4	3,171.9	3,165.4	12.8	6.1	-3.08	1,337.7	2,051.5	1,819.3	1,807.9	11.36	160.211			
3,300.0	3,214.0	3,267.6	3,261.0	13.3	6.2	-3.13	1,337.7	2,051.5	1,790.1	1,778.4	11.69	153.166			
3,400.0	3,309.6	3,363.2	3,356.6	13.9	6.4	-3.18	1,337.7	2,051.5	1,760.9	1,748.9	12.02	146.502			
3,500.0	3,405.3	3,458.8	3,452.3	14.4	6.5	-3.24	1,337.7	2,051.5	1,731.7	1,719.3	12.35	140.189			
3,600.0	3,500.9	3,554.5	3,547.9	15.0	6.7	-3.29	1,337.7	2,051.5	1,702.5	1,689.8	12.69	134.200			
3,700.0	3,596.5	3,650.1	3,643.5	15.5	6.8	-3.35	1,337.7	2,051.5	1,673.3	1,660.3	13.02	128.512			
3,800.0	3,692.1	3,745.7	3,739.1	16.1	7.0	-3.41	1,337.7	2,051.5	1,644.1	1,630.7	13.36	123.103			
3,900.0	3,787.8	3,841.4	3,834.8	16.7	7.2	-3.47	1,337.7	2,051.5	1,614.9	1,601.2	13.69	117.953			
4,000.0	3,883.4	3,937.0	3,930.4	17.2	7.3	-3.53	1,337.7	2,051.5	1,585.7	1,571.7	14.03	113.044			
4,100.0	3,979.0	4,032.6	4,026.0	17.8	7.5	-3.60	1,337.7	2,051.5	1,556.5	1,542.2	14.36	108.360			
4,200.0	4,074.7	4,128.2	4,121.7	18.3	7.6	-3.67	1,337.7	2,051.5	1,527.4	1,512.7	14.70	103.887			
4,300.0	4,170.3	4,223.9	4,217.3	18.9	7.8	-3.74	1,337.7	2,051.5	1,498.2	1,483.1	15.04	99.610			
4,400.0	4,265.9	4,319.5	4,312.9	19.4	7.9	-3.82	1,337.7	2,051.5	1,469.0	1,453.6	15.38	95.517			
4,500.0	4,361.6	4,415.1	4,408.6	20.0	8.1	-3.89	1,337.7	2,051.5	1,439.8	1,424.1	15.72	91.597			
4,600.0	4,457.2	4,510.8	4,504.2	20.5	8.3	-3.97	1,337.7	2,051.5	1,410.6	1,394.6	16.06	87.838			
4,700.0	4,552.8	4,606.4	4,599.8	21.1	8.4	-4.06	1,337.7	2,051.5	1,381.5	1,365.1	16.40	84.232			
4,800.0	4,648.5	4,702.0	4,695.5	21.6	8.6	-4.15	1,337.7	2,051.5	1,352.3	1,335.6	16.74	80.769			
4,900.0	4,744.1	4,797.7	4,791.1	22.2	8.7	-4.24	1,337.7	2,051.5	1,323.1	1,306.1	17.09	77.441			
5,000.0	4,839.7	4,893.3	4,886.7	22.7	8.9	-4.33	1,337.7	2,051.5	1,294.0	1,276.5	17.43	74.240			
5,100.0	4,935.3	4,988.9	4,982.3	23.3	9.1	-4.43	1,337.7	2,051.5	1,264.8	1,247.0	17.77	71.160			

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 1G-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 1G-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 3B-2H - Hz - Plan #2													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		
5,204.0	5,034.8	5,088.4	5,081.8	23.9	9.2	-4.54	1,337.7	2,051.5	1,234.5	1,216.4	18.13	68.076		
5,300.0	5,126.8	5,180.4	5,173.8	24.4	9.4	-4.62	1,337.7	2,051.5	1,207.3	1,188.8	18.50	65.264		
5,400.0	5,223.2	5,276.8	5,270.2	24.9	9.5	-4.70	1,337.7	2,051.5	1,180.6	1,161.7	18.88	62.544		
5,500.0	5,320.0	5,373.5	5,367.0	25.3	9.7	-4.78	1,337.7	2,051.5	1,155.5	1,136.3	19.25	60.025		
5,600.0	5,417.2	5,470.8	5,464.2	25.8	9.9	-4.86	1,337.7	2,051.5	1,132.2	1,112.6	19.62	57.697		
5,700.0	5,514.8	5,568.4	5,561.8	26.2	10.0	-4.94	1,337.7	2,051.5	1,110.6	1,090.6	19.99	55.548		
5,800.0	5,612.8	5,666.4	5,659.8	26.5	10.2	-5.01	1,337.7	2,051.5	1,090.6	1,070.3	20.36	53.569		
5,900.0	5,711.1	5,764.7	5,758.1	26.9	10.4	-5.08	1,337.7	2,051.5	1,072.4	1,051.7	20.72	51.751		
6,000.0	5,809.7	5,863.3	5,856.7	27.2	10.5	-5.14	1,337.7	2,051.5	1,055.9	1,034.8	21.08	50.086		
6,100.0	5,908.6	5,962.2	5,955.6	27.5	10.7	-5.20	1,337.7	2,051.5	1,041.1	1,019.7	21.44	48.565		
6,200.0	6,007.7	6,061.3	6,054.7	27.8	10.9	-5.26	1,337.7	2,051.5	1,028.1	1,006.3	21.79	47.183		
6,300.0	6,107.1	6,160.7	6,154.1	28.0	11.0	-5.31	1,337.7	2,051.5	1,016.7	994.6	22.14	45.931		
6,400.0	6,206.6	6,260.2	6,253.6	28.2	11.2	-5.35	1,337.7	2,051.5	1,007.1	984.6	22.48	44.804		
6,500.0	6,306.3	6,359.9	6,353.3	28.4	11.4	-5.38	1,337.7	2,051.5	999.2	976.4	22.82	43.796		
6,600.0	6,406.1	6,459.7	6,453.1	28.6	11.5	-5.41	1,337.7	2,051.5	993.1	969.9	23.15	42.902		
6,700.0	6,506.0	6,559.6	6,553.0	28.7	11.7	-5.43	1,337.7	2,051.5	988.7	965.2	23.47	42.116		
6,800.0	6,606.0	6,659.5	6,653.0	28.8	11.9	-5.44	1,337.7	2,051.5	986.0	962.2	23.80	41.434		
6,904.0	6,710.0	6,763.5	6,757.0	28.9	12.1	53.63	1,337.7	2,051.5	985.0	960.9	24.13	40.830		
6,918.8	6,724.8	6,778.4	6,771.8	28.9	12.1	53.63	1,337.7	2,051.5	985.0	960.9	24.18	40.744 CC, ES		
6,950.0	6,756.0	6,809.5	6,803.0	28.9	12.1	-126.38	1,337.7	2,051.5	985.4	961.2	24.23	40.663		
7,000.0	6,805.8	6,856.1	6,849.5	28.9	12.2	-126.39	1,337.7	2,051.5	987.8	963.5	24.30	40.649 SF		
7,050.0	6,855.2	6,875.0	6,868.4	28.8	12.2	-126.18	1,338.0	2,051.7	993.1	968.9	24.27	40.917		
7,100.0	6,904.0	6,889.0	6,882.3	28.8	12.3	-125.73	1,338.5	2,052.3	1,002.2	978.0	24.20	41.416		
7,150.0	6,952.0	6,900.0	6,893.4	28.7	12.3	-125.02	1,339.1	2,053.0	1,014.9	990.8	24.10	42.121		
7,200.0	6,998.8	6,925.0	6,918.2	28.6	12.3	-124.33	1,341.0	2,055.2	1,031.2	1,007.2	24.02	42.931		
7,250.0	7,044.3	6,925.0	6,918.2	28.5	12.3	-122.92	1,341.0	2,055.2	1,050.7	1,026.8	23.91	43.941		
7,300.0	7,088.2	6,950.0	6,942.8	28.3	12.4	-121.82	1,343.9	2,058.3	1,073.4	1,049.5	23.88	44.941		
7,350.0	7,130.4	6,950.0	6,942.8	28.2	12.4	-119.76	1,343.9	2,058.3	1,099.1	1,075.2	23.91	45.965		
7,400.0	7,170.6	6,975.0	6,967.2	28.0	12.5	-118.18	1,347.5	2,062.5	1,127.5	1,103.5	24.02	46.944		
7,450.0	7,208.6	6,975.0	6,967.2	27.8	12.5	-115.40	1,347.5	2,062.5	1,158.2	1,133.9	24.27	47.715		
7,500.0	7,244.3	6,984.2	6,976.1	27.7	12.5	-112.57	1,349.1	2,064.2	1,191.2	1,166.6	24.63	48.360		
7,550.0	7,277.4	7,000.0	6,991.3	27.5	12.5	-109.68	1,352.0	2,067.5	1,226.3	1,201.2	25.06	48.938		
7,600.0	7,307.8	7,000.0	6,991.3	27.3	12.5	-105.60	1,352.0	2,067.5	1,262.8	1,237.1	25.64	49.246		
7,650.0	7,335.4	7,000.0	6,991.3	27.2	12.5	-101.04	1,352.0	2,067.5	1,300.8	1,274.6	26.25	49.556		
7,700.0	7,360.0	7,000.0	6,991.3	27.0	12.5	-96.04	1,352.0	2,067.5	1,340.0	1,313.2	26.79	50.018		
7,750.0	7,381.6	7,000.0	6,991.3	26.9	12.5	-90.67	1,352.0	2,067.5	1,380.2	1,353.0	27.18	50.787		
7,800.0	7,399.9	7,011.1	7,001.8	26.8	12.6	-85.80	1,354.3	2,070.1	1,420.8	1,393.5	27.32	52.009		
7,850.0	7,414.9	7,012.1	7,002.8	26.7	12.6	-80.11	1,354.5	2,070.3	1,461.9	1,434.7	27.23	53.691		
7,900.0	7,426.6	7,012.3	7,002.9	26.6	12.6	-74.38	1,354.6	2,070.4	1,503.3	1,476.4	26.88	55.932		
7,950.0	7,434.9	7,011.6	7,002.3	26.5	12.6	-68.76	1,354.4	2,070.2	1,544.7	1,518.3	26.32	58.690		
8,000.0	7,439.7	7,010.2	7,000.9	26.5	12.6	-63.37	1,354.1	2,069.9	1,585.8	1,560.2	25.66	61.810		
8,043.8	7,441.0	7,000.0	6,991.3	26.5	12.5	-58.46	1,352.0	2,067.5	1,621.7	1,596.7	25.01	64.834		
8,100.0	7,441.0	7,000.0	6,991.3	26.6	12.5	-58.46	1,352.0	2,067.5	1,667.5	1,642.4	25.13	66.360		
8,200.0	7,441.0	7,000.0	6,991.3	26.7	12.5	-58.46	1,352.0	2,067.5	1,750.7	1,725.2	25.46	68.769		
8,300.0	7,441.0	7,000.0	6,991.3	27.0	12.5	-58.46	1,352.0	2,067.5	1,835.5	1,809.6	25.93	70.780		
8,400.0	7,441.0	7,000.0	6,991.3	27.4	12.5	-58.46	1,352.0	2,067.5	1,921.8	1,895.2	26.54	72.409		
8,500.0	7,441.0	6,988.8	6,980.5	27.8	12.5	-57.83	1,349.9	2,065.1	2,009.2	1,982.0	27.15	74.014		
8,600.0	7,441.0	6,985.1	6,977.0	28.4	12.5	-57.63	1,349.3	2,064.4	2,097.7	2,069.8	27.93	75.115		
8,700.0	7,441.0	6,975.0	6,967.2	29.1	12.5	-57.07	1,347.5	2,062.5	2,187.3	2,158.6	28.71	76.179		
8,800.0	7,441.0	6,975.0	6,967.2	29.9	12.5	-57.07	1,347.5	2,062.5	2,277.6	2,247.9	29.69	76.720		
8,900.0	7,441.0	6,975.0	6,967.2	30.8	12.5	-57.07	1,347.5	2,062.5	2,368.7	2,338.0	30.72	77.094		
9,000.0	7,441.0	6,975.0	6,967.2	31.7	12.5	-57.07	1,347.5	2,062.5	2,460.5	2,428.7	31.82	77.336		

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 1G-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 1G-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 3B-2H - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,100.0	7,441.0	6,975.0	6,967.2	32.7	12.5	-57.07	1,347.5	2,062.5	2,552.9	2,519.9	32.95	77.473		
9,200.0	7,441.0	6,975.0	6,967.2	33.8	12.5	-57.07	1,347.5	2,062.5	2,645.8	2,611.7	34.13	77.530		
9,300.0	7,441.0	6,964.3	6,956.8	34.9	12.4	-56.49	1,345.8	2,060.6	2,739.2	2,704.0	35.16	77.911		
9,400.0	7,441.0	6,961.8	6,954.4	36.1	12.4	-56.36	1,345.5	2,060.2	2,833.0	2,796.7	36.34	77.954		
9,500.0	7,441.0	6,950.0	6,942.8	37.3	12.4	-55.73	1,343.9	2,058.3	2,927.3	2,890.0	37.38	78.319		
9,600.0	7,441.0	6,950.0	6,942.8	38.6	12.4	-55.73	1,343.9	2,058.3	3,021.9	2,983.2	38.64	78.212		
9,700.0	7,441.0	6,950.0	6,942.8	39.9	12.4	-55.73	1,343.9	2,058.3	3,116.8	3,076.9	39.92	78.084		
9,800.0	7,441.0	6,950.0	6,942.8	41.2	12.4	-55.73	1,343.9	2,058.3	3,212.0	3,170.8	41.21	77.943		
9,900.0	7,441.0	6,950.0	6,942.8	42.6	12.4	-55.73	1,343.9	2,058.3	3,307.5	3,265.0	42.52	77.791		
10,000.0	7,441.0	6,950.0	6,942.8	44.0	12.4	-55.73	1,343.9	2,058.3	3,403.2	3,359.4	43.84	77.632		
10,100.0	7,441.0	6,950.0	6,942.8	45.4	12.4	-55.73	1,343.9	2,058.3	3,499.2	3,454.0	45.17	77.469		
10,200.0	7,441.0	6,950.0	6,942.8	46.9	12.4	-55.73	1,343.9	2,058.3	3,595.4	3,548.9	46.51	77.305		
10,300.0	7,441.0	6,950.0	6,942.8	48.4	12.4	-55.73	1,343.9	2,058.3	3,691.8	3,643.9	47.86	77.140		
10,400.0	7,441.0	6,950.0	6,942.8	49.8	12.4	-55.73	1,343.9	2,058.3	3,788.4	3,739.2	49.22	76.975		
10,500.0	7,441.0	6,950.0	6,942.8	51.3	12.4	-55.73	1,343.9	2,058.3	3,885.2	3,834.6	50.58	76.813		
10,600.0	7,441.0	6,950.0	6,942.8	52.9	12.4	-55.73	1,343.9	2,058.3	3,982.1	3,930.1	51.95	76.653		
10,700.0	7,441.0	6,937.7	6,930.7	54.4	12.4	-55.08	1,342.4	2,056.6	4,079.0	4,026.0	52.97	77.002		
10,800.0	7,441.0	6,936.2	6,929.3	55.9	12.4	-55.01	1,342.2	2,056.5	4,176.2	4,121.9	54.30	76.908		
10,900.0	7,441.0	6,925.0	6,918.2	57.5	12.3	-54.43	1,341.0	2,055.2	4,273.6	4,218.2	55.33	77.231		
11,000.0	7,441.0	6,925.0	6,918.2	59.1	12.3	-54.43	1,341.0	2,055.2	4,371.0	4,314.3	56.70	77.087		
11,100.0	7,441.0	6,925.0	6,918.2	60.7	12.3	-54.43	1,341.0	2,055.2	4,468.5	4,410.4	58.07	76.946		
11,200.0	7,441.0	6,925.0	6,918.2	62.2	12.3	-54.43	1,341.0	2,055.2	4,566.1	4,506.7	59.45	76.810		
11,300.0	7,441.0	6,925.0	6,918.2	63.8	12.3	-54.43	1,341.0	2,055.2	4,663.8	4,603.0	60.82	76.677		
11,400.0	7,441.0	6,925.0	6,918.2	65.4	12.3	-54.43	1,341.0	2,055.2	4,761.6	4,699.4	62.21	76.547		
11,500.0	7,441.0	6,925.0	6,918.2	67.1	12.3	-54.43	1,341.0	2,055.2	4,859.6	4,796.0	63.59	76.422		
11,600.0	7,441.0	6,925.0	6,918.2	68.7	12.3	-54.43	1,341.0	2,055.2	4,957.5	4,892.6	64.97	76.300		
11,700.0	7,441.0	6,925.0	6,918.2	70.3	12.3	-54.43	1,341.0	2,055.2	5,055.6	4,989.2	66.36	76.182		
11,800.0	7,441.0	6,925.0	6,918.2	71.9	12.3	-54.43	1,341.0	2,055.2	5,153.7	5,086.0	67.75	76.068		
11,900.0	7,441.0	6,925.0	6,918.2	73.6	12.3	-54.43	1,341.0	2,055.2	5,252.0	5,182.8	69.14	75.956		
12,000.0	7,441.0	6,925.0	6,918.2	75.2	12.3	-54.43	1,341.0	2,055.2	5,350.2	5,279.7	70.54	75.849		
12,100.0	7,441.0	6,925.0	6,918.2	76.9	12.3	-54.43	1,341.0	2,055.2	5,448.6	5,376.6	71.93	75.744		
12,135.7	7,441.0	6,925.0	6,918.2	77.5	12.3	-54.43	1,341.0	2,055.2	5,483.7	5,411.2	72.43	75.707		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3C-2H - 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		
0.0	0.0	41.0	41.0	0.0	0.1	49.66	1,471.8	1,732.8	2,273.5					
100.0	100.0	141.0	141.0	0.2	0.2	49.66	1,471.8	1,732.8	2,273.5	2,273.1	0.39	5,894.267		
200.0	200.0	241.0	241.0	0.3	0.4	49.66	1,471.8	1,732.8	2,273.5	2,272.8	0.73	3,094.141		
300.0	300.0	341.0	341.0	0.5	0.6	-9.43	1,471.8	1,732.8	2,272.7	2,271.6	1.08	2,097.000		
400.0	400.0	441.0	441.0	0.7	0.8	-9.44	1,471.8	1,732.8	2,270.1	2,268.6	1.43	1,584.640		
500.0	499.9	540.9	540.9	0.9	0.9	-9.47	1,471.8	1,732.8	2,265.8	2,264.0	1.78	1,272.142		
600.0	599.7	640.7	640.7	1.1	1.1	-9.50	1,471.8	1,732.8	2,259.8	2,257.6	2.13	1,061.281		
700.0	699.4	740.4	740.4	1.3	1.3	-9.55	1,471.8	1,732.8	2,252.0	2,249.5	2.48	909.134		
800.0	798.9	839.9	839.9	1.5	1.5	-9.61	1,471.8	1,732.8	2,242.6	2,239.7	2.82	793.962		
900.0	898.3	939.3	939.3	1.8	1.6	-9.67	1,471.8	1,732.8	2,231.4	2,228.2	3.17	703.575		
1,000.0	997.4	1,038.4	1,038.4	2.0	1.8	-9.75	1,471.8	1,732.8	2,218.5	2,215.0	3.52	630.610		
1,100.0	1,096.3	1,137.3	1,137.3	2.3	2.0	-9.84	1,471.8	1,732.8	2,204.0	2,200.1	3.86	570.352		
1,200.0	1,194.9	1,235.9	1,235.9	2.7	2.1	-9.94	1,471.8	1,732.8	2,187.7	2,183.5	4.21	519.645		
1,300.0	1,293.3	1,334.3	1,334.3	3.0	2.3	-10.06	1,471.8	1,732.8	2,169.7	2,165.2	4.56	476.296		
1,400.0	1,391.2	1,432.2	1,432.2	3.4	2.5	-10.19	1,471.8	1,732.8	2,150.1	2,145.2	4.90	438.730		
1,500.0	1,488.9	1,529.9	1,529.9	3.8	2.7	-10.33	1,471.8	1,732.8	2,128.8	2,123.5	5.25	405.793		
1,600.0	1,586.1	1,627.1	1,627.1	4.2	2.8	-10.49	1,471.8	1,732.8	2,105.8	2,100.2	5.59	376.612		
1,700.0	1,682.9	1,723.9	1,723.9	4.7	3.0	-10.66	1,471.8	1,732.8	2,081.2	2,075.2	5.94	350.520		
1,800.0	1,779.3	1,820.3	1,820.3	5.2	3.2	-10.85	1,471.8	1,732.8	2,054.9	2,048.6	6.28	326.997		
1,900.0	1,875.2	1,916.2	1,916.2	5.7	3.3	-11.05	1,471.8	1,732.8	2,027.0	2,020.3	6.63	305.629		
2,000.0	1,970.8	2,011.8	2,011.8	6.3	3.5	-11.21	1,471.8	1,732.8	1,998.2	1,991.2	7.00	285.604		
2,100.0	2,066.4	2,107.4	2,107.4	6.8	3.7	-11.38	1,471.8	1,732.8	1,969.5	1,962.1	7.36	267.493		
2,200.0	2,162.1	2,203.1	2,203.1	7.3	3.8	-11.55	1,471.8	1,732.8	1,940.8	1,933.1	7.73	251.037		
2,300.0	2,257.7	2,298.7	2,298.7	7.9	4.0	-11.72	1,471.8	1,732.8	1,912.1	1,904.0	8.10	236.020		
2,400.0	2,353.3	2,394.3	2,394.3	8.4	4.2	-11.91	1,471.8	1,732.8	1,883.5	1,875.0	8.47	222.262		
2,500.0	2,448.9	2,489.9	2,489.9	9.0	4.3	-12.09	1,471.8	1,732.8	1,854.8	1,846.0	8.85	209.612		
2,600.0	2,544.6	2,585.6	2,585.6	9.5	4.5	-12.28	1,471.8	1,732.8	1,826.2	1,816.9	9.23	197.942		
2,700.0	2,640.2	2,681.2	2,681.2	10.1	4.7	-12.48	1,471.8	1,732.8	1,797.6	1,788.0	9.61	187.143		
2,800.0	2,735.8	2,776.8	2,776.8	10.6	4.8	-12.68	1,471.8	1,732.8	1,769.0	1,759.0	9.99	177.121		
2,900.0	2,831.5	2,872.5	2,872.5	11.2	5.0	-12.90	1,471.8	1,732.8	1,740.4	1,730.0	10.37	167.796		
3,000.0	2,927.1	2,968.1	2,968.1	11.7	5.2	-13.11	1,471.8	1,732.8	1,711.8	1,701.1	10.76	159.097		
3,100.0	3,022.7	3,063.7	3,063.7	12.2	5.3	-13.34	1,471.8	1,732.8	1,683.3	1,672.2	11.15	150.964		
3,200.0	3,118.4	3,159.4	3,159.4	12.8	5.5	-13.57	1,471.8	1,732.8	1,654.8	1,643.3	11.54	143.344		
3,300.0	3,214.0	3,255.0	3,255.0	13.3	5.7	-13.81	1,471.8	1,732.8	1,626.3	1,614.4	11.94	136.189		
3,400.0	3,309.6	3,350.6	3,350.6	13.9	5.8	-14.06	1,471.8	1,732.8	1,597.9	1,585.6	12.34	129.459		
3,500.0	3,405.3	3,446.3	3,446.3	14.4	6.0	-14.32	1,471.8	1,732.8	1,569.5	1,556.7	12.75	123.117		
3,600.0	3,500.9	3,541.9	3,541.9	15.0	6.2	-14.59	1,471.8	1,732.8	1,541.1	1,527.9	13.16	117.130		
3,700.0	3,596.5	3,637.5	3,637.5	15.5	6.3	-14.87	1,471.8	1,732.8	1,512.7	1,499.2	13.57	111.471		
3,800.0	3,692.1	3,733.1	3,733.1	16.1	6.5	-15.16	1,471.8	1,732.8	1,484.4	1,470.4	13.99	106.112		
3,900.0	3,787.8	3,828.8	3,828.8	16.7	6.7	-15.46	1,471.8	1,732.8	1,456.1	1,441.7	14.41	101.031		
4,000.0	3,883.4	3,924.4	3,924.4	17.2	6.8	-15.77	1,471.8	1,732.8	1,427.9	1,413.0	14.84	96.208		
4,100.0	3,979.0	4,020.0	4,020.0	17.8	7.0	-16.09	1,471.8	1,732.8	1,399.7	1,384.4	15.28	91.622		
4,200.0	4,074.7	4,115.7	4,115.7	18.3	7.2	-16.43	1,471.8	1,732.8	1,371.5	1,355.8	15.72	87.259		
4,300.0	4,170.3	4,211.3	4,211.3	18.9	7.3	-16.78	1,471.8	1,732.8	1,343.4	1,327.2	16.17	83.101		
4,400.0	4,265.9	4,306.9	4,306.9	19.4	7.5	-17.15	1,471.8	1,732.8	1,315.3	1,298.7	16.62	79.136		
4,500.0	4,361.6	4,402.6	4,402.6	20.0	7.7	-17.53	1,471.8	1,732.8	1,287.3	1,270.2	17.08	75.351		
4,600.0	4,457.2	4,498.2	4,498.2	20.5	7.8	-17.93	1,471.8	1,732.8	1,259.4	1,241.8	17.56	71.734		
4,700.0	4,552.8	4,593.8	4,593.8	21.1	8.0	-18.35	1,471.8	1,732.8	1,231.5	1,213.4	18.04	68.275		
4,800.0	4,648.5	4,689.5	4,689.5	21.6	8.2	-18.78	1,471.8	1,732.8	1,203.6	1,185.1	18.53	64.965		
4,900.0	4,744.1	4,785.1	4,785.1	22.2	8.3	-19.24	1,471.8	1,732.8	1,175.9	1,156.8	19.03	61.794		
5,000.0	4,839.7	4,880.7	4,880.7	22.7	8.5	-19.72	1,471.8	1,732.8	1,148.2	1,128.6	19.54	58.755		
5,100.0	4,935.3	4,976.3	4,976.3	23.3	8.7	-20.22	1,471.8	1,732.8	1,120.5	1,100.5	20.07	55.841		

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 1G-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 1G-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 3C-2H - 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	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		
5,204.0	5,034.8	5,075.8	5,075.8	23.9	8.8	-20.77	1,471.8	1,732.8	1,091.9	1,071.3	20.63	52.936		
5,300.0	5,126.8	5,167.8	5,167.8	24.4	9.0	-21.19	1,471.8	1,732.8	1,066.3	1,045.1	21.15	50.410		
5,400.0	5,223.2	5,264.2	5,264.2	24.9	9.2	-21.62	1,471.8	1,732.8	1,041.2	1,019.5	21.70	47.993		
5,500.0	5,320.0	5,361.0	5,361.0	25.3	9.3	-22.05	1,471.8	1,732.8	1,017.8	995.6	22.23	45.781		
5,600.0	5,417.2	5,458.2	5,458.2	25.8	9.5	-22.47	1,471.8	1,732.8	996.1	973.3	22.76	43.761		
5,700.0	5,514.8	5,555.8	5,555.8	26.2	9.7	-22.87	1,471.8	1,732.8	976.0	952.7	23.28	41.919		
5,800.0	5,612.8	5,653.8	5,653.8	26.5	9.9	-23.26	1,471.8	1,732.8	957.5	933.7	23.79	40.246		
5,900.0	5,711.1	5,752.1	5,752.1	26.9	10.0	-23.63	1,471.8	1,732.8	940.7	916.4	24.29	38.731		
6,000.0	5,809.7	5,850.7	5,850.7	27.2	10.2	-23.98	1,471.8	1,732.8	925.5	900.7	24.77	37.363		
6,100.0	5,908.6	5,949.6	5,949.6	27.5	10.4	-24.30	1,471.8	1,732.8	911.9	886.7	25.24	36.136		
6,200.0	6,007.7	6,048.7	6,048.7	27.8	10.5	-24.60	1,471.8	1,732.8	899.9	874.2	25.68	35.040		
6,300.0	6,107.1	6,148.1	6,148.1	28.0	10.7	-24.86	1,471.8	1,732.8	889.6	863.5	26.11	34.068		
6,400.0	6,206.6	6,247.6	6,247.6	28.2	10.9	-25.08	1,471.8	1,732.8	880.8	854.3	26.52	33.213		
6,500.0	6,306.3	6,347.3	6,347.3	28.4	11.1	-25.27	1,471.8	1,732.8	873.6	846.7	26.91	32.470		
6,600.0	6,406.1	6,447.1	6,447.1	28.6	11.2	-25.42	1,471.8	1,732.8	868.1	840.8	27.27	31.833		
6,700.0	6,506.0	6,547.0	6,547.0	28.7	11.4	-25.53	1,471.8	1,732.8	864.1	836.5	27.61	31.295		
6,765.0	6,571.0	6,593.8	6,593.8	28.7	11.5	-25.58	1,472.0	1,732.8	862.7	834.9	27.78	31.049 CC, ES		
6,800.0	6,606.0	6,600.0	6,600.0	28.8	11.5	-25.59	1,472.2	1,732.8	863.3	835.4	27.84	31.006		
6,904.0	6,710.0	6,650.0	6,649.9	28.9	11.6	33.32	1,475.6	1,732.9	869.9	841.8	28.09	30.964		
6,918.8	6,724.8	6,669.7	6,669.5	28.9	11.6	33.24	1,478.0	1,732.9	871.3	843.1	28.17	30.929 SF		
6,950.0	6,756.0	6,684.9	6,684.5	28.9	11.7	-146.66	1,480.1	1,732.9	875.6	847.4	28.15	31.100		
7,000.0	6,805.8	6,700.0	6,699.4	28.9	11.7	-146.32	1,482.6	1,733.0	886.0	858.1	28.00	31.649		
7,050.0	6,855.2	6,731.4	6,730.1	28.8	11.7	-146.02	1,488.6	1,733.0	900.5	872.7	27.80	32.395		
7,100.0	6,904.0	6,750.0	6,748.3	28.8	11.8	-145.41	1,492.9	1,733.1	919.2	891.7	27.42	33.518		
7,150.0	6,952.0	6,772.9	6,770.5	28.7	11.8	-144.72	1,498.8	1,733.1	941.7	914.7	26.97	34.913		
7,200.0	6,998.8	6,800.0	6,796.4	28.6	11.9	-143.97	1,506.6	1,733.2	967.9	941.4	26.46	36.576		
7,250.0	7,044.3	6,800.0	6,796.4	28.5	11.9	-142.20	1,506.6	1,733.2	997.5	971.8	25.67	38.862		
7,300.0	7,088.2	6,823.0	6,818.1	28.3	11.9	-140.82	1,514.1	1,733.3	1,030.1	1,005.1	25.01	41.187		
7,350.0	7,130.4	6,850.0	6,843.3	28.2	12.0	-139.31	1,523.7	1,733.4	1,065.9	1,041.5	24.38	43.724		
7,400.0	7,170.6	6,850.0	6,843.3	28.0	12.0	-136.19	1,523.7	1,733.4	1,103.7	1,080.1	23.61	46.756		
7,450.0	7,208.6	6,850.0	6,843.3	27.8	12.0	-132.28	1,523.7	1,733.4	1,144.0	1,121.0	23.04	49.663		
7,500.0	7,244.3	6,850.0	6,843.3	27.7	12.0	-127.40	1,523.7	1,733.4	1,186.4	1,163.5	22.82	51.986		
7,550.0	7,277.4	6,870.7	6,862.4	27.5	12.0	-123.03	1,531.7	1,733.5	1,229.8	1,206.8	23.00	53.478		
7,600.0	7,307.8	6,875.2	6,866.5	27.3	12.1	-116.28	1,533.5	1,733.6	1,274.8	1,251.1	23.69	53.814		
7,650.0	7,335.4	6,878.2	6,869.3	27.2	12.1	-108.01	1,534.7	1,733.6	1,320.7	1,295.9	24.82	53.213		
7,700.0	7,360.0	6,879.9	6,870.8	27.0	12.1	-98.24	1,535.4	1,733.6	1,367.2	1,341.2	26.08	52.427		
7,750.0	7,381.6	6,880.2	6,871.1	26.9	12.1	-87.34	1,535.6	1,733.6	1,414.2	1,387.2	26.98	52.410		
7,800.0	7,399.9	6,879.4	6,870.4	26.8	12.1	-76.12	1,535.2	1,733.6	1,461.3	1,434.2	27.11	53.906		
7,850.0	7,414.9	6,877.4	6,868.6	26.7	12.1	-65.47	1,534.4	1,733.6	1,508.4	1,482.0	26.36	57.212		
7,900.0	7,426.6	6,874.4	6,865.8	26.6	12.1	-56.06	1,533.2	1,733.5	1,555.1	1,530.1	25.02	62.159		
7,950.0	7,434.9	6,870.5	6,862.2	26.5	12.0	-48.17	1,531.6	1,733.5	1,601.3	1,577.8	23.48	68.210		
8,000.0	7,439.7	6,850.0	6,843.3	26.5	12.0	-40.93	1,523.7	1,733.4	1,647.0	1,625.0	21.92	75.119		
8,043.8	7,441.0	6,850.0	6,843.3	26.5	12.0	-36.65	1,523.7	1,733.4	1,686.0	1,664.9	21.09	79.943		
8,100.0	7,441.0	6,850.0	6,843.3	26.6	12.0	-36.65	1,523.7	1,733.4	1,735.7	1,714.5	21.22	81.813		
8,200.0	7,441.0	6,850.0	6,843.3	26.7	12.0	-36.65	1,523.7	1,733.4	1,825.1	1,803.6	21.51	84.867		
8,300.0	7,441.0	6,850.0	6,843.3	27.0	12.0	-36.65	1,523.7	1,733.4	1,915.6	1,893.7	21.88	87.562		
8,400.0	7,441.0	6,823.7	6,818.8	27.4	11.9	-35.61	1,514.3	1,733.3	2,006.4	1,984.3	22.08	90.869		
8,500.0	7,441.0	6,800.0	6,796.4	27.8	11.9	-34.71	1,506.6	1,733.2	2,098.3	2,075.9	22.36	93.842		
8,600.0	7,441.0	6,800.0	6,796.4	28.4	11.9	-34.71	1,506.6	1,733.2	2,190.4	2,167.5	22.91	95.620		
8,700.0	7,441.0	6,800.0	6,796.4	29.1	11.9	-34.71	1,506.6	1,733.2	2,283.2	2,259.7	23.50	97.140		
8,800.0	7,441.0	6,800.0	6,796.4	29.9	11.9	-34.71	1,506.6	1,733.2	2,376.5	2,352.4	24.14	98.432		
8,900.0	7,441.0	6,800.0	6,796.4	30.8	11.9	-34.71	1,506.6	1,733.2	2,470.4	2,445.6	24.82	99.524		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3C-2H - 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	7,441.0	6,778.7	6,776.0	31.7	11.8	-33.92	1,500.4	1,733.2	2,564.4	2,539.1	25.28	101.438		
9,100.0	7,441.0	6,772.7	6,770.2	32.7	11.8	-33.71	1,498.7	1,733.1	2,658.9	2,632.9	25.93	102.534		
9,200.0	7,441.0	6,750.0	6,748.3	33.8	11.8	-32.91	1,492.9	1,733.1	2,754.0	2,727.6	26.39	104.374		
9,300.0	7,441.0	6,750.0	6,748.3	34.9	11.8	-32.91	1,492.9	1,733.1	2,849.0	2,821.8	27.14	104.983		
9,400.0	7,441.0	6,750.0	6,748.3	36.1	11.8	-32.91	1,492.9	1,733.1	2,944.3	2,916.4	27.91	105.499		
9,500.0	7,441.0	6,750.0	6,748.3	37.3	11.8	-32.91	1,492.9	1,733.1	3,040.0	3,011.3	28.70	105.935		
9,600.0	7,441.0	6,750.0	6,748.3	38.6	11.8	-32.91	1,492.9	1,733.1	3,135.9	3,106.4	29.50	106.303		
9,700.0	7,441.0	6,750.0	6,748.3	39.9	11.8	-32.91	1,492.9	1,733.1	3,232.0	3,201.7	30.32	106.612		
9,800.0	7,441.0	6,750.0	6,748.3	41.2	11.8	-32.91	1,492.9	1,733.1	3,328.4	3,297.3	31.14	106.872		
9,900.0	7,441.0	6,750.0	6,748.3	42.6	11.8	-32.91	1,492.9	1,733.1	3,425.0	3,393.0	31.98	107.090		
10,000.0	7,441.0	6,750.0	6,748.3	44.0	11.8	-32.91	1,492.9	1,733.1	3,521.8	3,489.0	32.83	107.271		
10,100.0	7,441.0	6,727.5	6,726.4	45.4	11.7	-32.14	1,487.8	1,733.0	3,618.3	3,585.1	33.25	108.821		
10,200.0	7,441.0	6,724.1	6,723.1	46.9	11.7	-32.02	1,487.1	1,733.0	3,715.3	3,681.3	34.03	109.183		
10,300.0	7,441.0	6,700.0	6,699.4	48.4	11.7	-31.24	1,482.6	1,733.0	3,812.8	3,778.4	34.39	110.874		
10,400.0	7,441.0	6,700.0	6,699.4	49.8	11.7	-31.24	1,482.6	1,733.0	3,909.9	3,874.7	35.23	110.997		
10,500.0	7,441.0	6,700.0	6,699.4	51.3	11.7	-31.24	1,482.6	1,733.0	4,007.2	3,971.2	36.07	111.102		
10,600.0	7,441.0	6,700.0	6,699.4	52.9	11.7	-31.24	1,482.6	1,733.0	4,104.6	4,067.7	36.92	111.190		
10,700.0	7,441.0	6,700.0	6,699.4	54.4	11.7	-31.24	1,482.6	1,733.0	4,202.2	4,164.4	37.77	111.264		
10,800.0	7,441.0	6,700.0	6,699.4	55.9	11.7	-31.24	1,482.6	1,733.0	4,299.8	4,261.2	38.62	111.325		
10,900.0	7,441.0	6,700.0	6,699.4	57.5	11.7	-31.24	1,482.6	1,733.0	4,397.6	4,358.1	39.48	111.375		
11,000.0	7,441.0	6,700.0	6,699.4	59.1	11.7	-31.24	1,482.6	1,733.0	4,495.5	4,455.1	40.35	111.416		
11,100.0	7,441.0	6,700.0	6,699.4	60.7	11.7	-31.24	1,482.6	1,733.0	4,593.4	4,552.2	41.22	111.448		
11,200.0	7,441.0	6,700.0	6,699.4	62.2	11.7	-31.24	1,482.6	1,733.0	4,691.4	4,649.4	42.09	111.472		
11,300.0	7,441.0	6,700.0	6,699.4	63.8	11.7	-31.24	1,482.6	1,733.0	4,789.6	4,746.6	42.96	111.491		
11,400.0	7,441.0	6,700.0	6,699.4	65.4	11.7	-31.24	1,482.6	1,733.0	4,887.8	4,843.9	43.84	111.503		
11,500.0	7,441.0	6,700.0	6,699.4	67.1	11.7	-31.24	1,482.6	1,733.0	4,986.0	4,941.3	44.71	111.511		
11,600.0	7,441.0	6,700.0	6,699.4	68.7	11.7	-31.24	1,482.6	1,733.0	5,084.4	5,038.8	45.59	111.514		
11,700.0	7,441.0	6,700.0	6,699.4	70.3	11.7	-31.24	1,482.6	1,733.0	5,182.8	5,136.3	46.48	111.514		
11,800.0	7,441.0	6,700.0	6,699.4	71.9	11.7	-31.24	1,482.6	1,733.0	5,281.2	5,233.8	47.36	111.510		
11,900.0	7,441.0	6,700.0	6,699.4	73.6	11.7	-31.24	1,482.6	1,733.0	5,379.7	5,331.5	48.25	111.504		
12,000.0	7,441.0	6,700.0	6,699.4	75.2	11.7	-31.24	1,482.6	1,733.0	5,478.3	5,429.2	49.14	111.494		
12,100.0	7,441.0	6,700.0	6,699.4	76.9	11.7	-31.24	1,482.6	1,733.0	5,576.9	5,526.9	50.02	111.483		
12,135.7	7,441.0	6,700.0	6,699.4	77.5	11.7	-31.24	1,482.6	1,733.0	5,612.1	5,561.7	50.34	111.478		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3C-2H - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	46.0	46.0	0.0	0.1	49.66	1,471.8	1,732.8	2,273.5					
100.0	100.0	146.0	146.0	0.2	0.2	49.66	1,471.8	1,732.8	2,273.5	2,273.1	0.39	5,894.267		
200.0	200.0	246.0	246.0	0.3	0.4	49.66	1,471.8	1,732.8	2,273.5	2,272.8	0.73	3,094.141		
300.0	300.0	346.0	346.0	0.5	0.6	-9.43	1,471.8	1,732.8	2,272.7	2,271.6	1.08	2,096.999		
400.0	400.0	446.0	446.0	0.7	0.8	-9.44	1,471.8	1,732.8	2,270.1	2,268.6	1.43	1,584.640		
500.0	499.9	545.9	545.9	0.9	0.9	-9.47	1,471.8	1,732.8	2,265.8	2,264.0	1.78	1,272.142		
600.0	599.7	645.7	645.7	1.1	1.1	-9.50	1,471.8	1,732.8	2,259.8	2,257.6	2.13	1,061.281		
700.0	699.4	745.4	745.4	1.3	1.3	-9.55	1,471.8	1,732.8	2,252.0	2,249.5	2.48	909.134		
800.0	798.9	844.9	844.9	1.5	1.5	-9.61	1,471.8	1,732.8	2,242.6	2,239.7	2.82	793.962		
900.0	898.3	944.3	944.3	1.8	1.6	-9.67	1,471.8	1,732.8	2,231.4	2,228.2	3.17	703.575		
1,000.0	997.4	1,043.4	1,043.4	2.0	1.8	-9.75	1,471.8	1,732.8	2,218.5	2,215.0	3.52	630.610		
1,100.0	1,096.3	1,142.3	1,142.3	2.3	2.0	-9.84	1,471.8	1,732.8	2,204.0	2,200.1	3.86	570.352		
1,200.0	1,194.9	1,240.9	1,240.9	2.7	2.1	-9.94	1,471.8	1,732.8	2,187.7	2,183.5	4.21	519.645		
1,300.0	1,293.3	1,339.3	1,339.3	3.0	2.3	-10.06	1,471.8	1,732.8	2,169.7	2,165.2	4.56	476.296		
1,400.0	1,391.2	1,437.2	1,437.2	3.4	2.5	-10.19	1,471.8	1,732.8	2,150.1	2,145.2	4.90	438.730		
1,500.0	1,488.9	1,534.9	1,534.9	3.8	2.7	-10.33	1,471.8	1,732.8	2,128.8	2,123.5	5.25	405.793		
1,600.0	1,586.1	1,632.1	1,632.1	4.2	2.8	-10.49	1,471.8	1,732.8	2,105.8	2,100.2	5.59	376.612		
1,700.0	1,682.9	1,728.9	1,728.9	4.7	3.0	-10.66	1,471.8	1,732.8	2,081.2	2,075.2	5.94	350.520		
1,800.0	1,779.3	1,825.3	1,825.3	5.2	3.2	-10.85	1,471.8	1,732.8	2,054.9	2,048.6	6.28	326.997		
1,900.0	1,875.2	1,921.2	1,921.2	5.7	3.3	-11.05	1,471.8	1,732.8	2,027.0	2,020.3	6.63	305.629		
2,000.0	1,970.8	2,016.8	2,016.8	6.3	3.5	-11.21	1,471.8	1,732.8	1,998.2	1,991.2	7.00	285.604		
2,100.0	2,066.4	2,112.4	2,112.4	6.8	3.7	-11.38	1,471.8	1,732.8	1,969.5	1,962.1	7.36	267.493		
2,200.0	2,162.1	2,208.1	2,208.1	7.3	3.8	-11.55	1,471.8	1,732.8	1,940.8	1,933.1	7.73	251.037		
2,300.0	2,257.7	2,303.7	2,303.7	7.9	4.0	-11.72	1,471.8	1,732.8	1,912.1	1,904.0	8.10	236.020		
2,400.0	2,353.3	2,399.3	2,399.3	8.4	4.2	-11.91	1,471.8	1,732.8	1,883.5	1,875.0	8.47	222.262		
2,500.0	2,448.9	2,494.9	2,494.9	9.0	4.3	-12.09	1,471.8	1,732.8	1,854.8	1,846.0	8.85	209.612		
2,600.0	2,544.6	2,590.6	2,590.6	9.5	4.5	-12.28	1,471.8	1,732.8	1,826.2	1,816.9	9.23	197.942		
2,700.0	2,640.2	2,686.2	2,686.2	10.1	4.7	-12.48	1,471.8	1,732.8	1,797.6	1,788.0	9.61	187.143		
2,800.0	2,735.8	2,781.8	2,781.8	10.6	4.8	-12.68	1,471.8	1,732.8	1,769.0	1,759.0	9.99	177.121		
2,900.0	2,831.5	2,877.5	2,877.5	11.2	5.0	-12.90	1,471.8	1,732.8	1,740.4	1,730.0	10.37	167.796		
3,000.0	2,927.1	2,973.1	2,973.1	11.7	5.2	-13.11	1,471.8	1,732.8	1,711.8	1,701.1	10.76	159.097		
3,100.0	3,022.7	3,068.7	3,068.7	12.2	5.3	-13.34	1,471.8	1,732.8	1,683.3	1,672.2	11.15	150.964		
3,200.0	3,118.4	3,164.4	3,164.4	12.8	5.5	-13.57	1,471.8	1,732.8	1,654.8	1,643.3	11.54	143.344		
3,300.0	3,214.0	3,260.0	3,260.0	13.3	5.7	-13.81	1,471.8	1,732.8	1,626.3	1,614.4	11.94	136.189		
3,400.0	3,309.6	3,355.6	3,355.6	13.9	5.8	-14.06	1,471.8	1,732.8	1,597.9	1,585.6	12.34	129.459		
3,500.0	3,405.3	3,451.3	3,451.3	14.4	6.0	-14.32	1,471.8	1,732.8	1,569.5	1,556.7	12.75	123.117		
3,600.0	3,500.9	3,546.9	3,546.9	15.0	6.2	-14.59	1,471.8	1,732.8	1,541.1	1,527.9	13.16	117.130		
3,700.0	3,596.5	3,642.5	3,642.5	15.5	6.3	-14.87	1,471.8	1,732.8	1,512.7	1,499.2	13.57	111.471		
3,800.0	3,692.1	3,738.1	3,738.1	16.1	6.5	-15.16	1,471.8	1,732.8	1,484.4	1,470.4	13.99	106.112		
3,900.0	3,787.8	3,833.8	3,833.8	16.7	6.7	-15.46	1,471.8	1,732.8	1,456.1	1,441.7	14.41	101.031		
4,000.0	3,883.4	3,929.4	3,929.4	17.2	6.8	-15.77	1,471.8	1,732.8	1,427.9	1,413.0	14.84	96.208		
4,100.0	3,979.0	4,025.0	4,025.0	17.8	7.0	-16.09	1,471.8	1,732.8	1,399.7	1,384.4	15.28	91.622		
4,200.0	4,074.7	4,120.7	4,120.7	18.3	7.2	-16.43	1,471.8	1,732.8	1,371.5	1,355.8	15.72	87.259		
4,300.0	4,170.3	4,216.3	4,216.3	18.9	7.3	-16.78	1,471.8	1,732.8	1,343.4	1,327.2	16.17	83.101		
4,400.0	4,265.9	4,311.9	4,311.9	19.4	7.5	-17.15	1,471.8	1,732.8	1,315.3	1,298.7	16.62	79.136		
4,500.0	4,361.6	4,407.6	4,407.6	20.0	7.7	-17.53	1,471.8	1,732.8	1,287.3	1,270.2	17.08	75.351		
4,600.0	4,457.2	4,503.2	4,503.2	20.5	7.8	-17.93	1,471.8	1,732.8	1,259.4	1,241.8	17.56	71.734		
4,700.0	4,552.8	4,598.8	4,598.8	21.1	8.0	-18.35	1,471.8	1,732.8	1,231.5	1,213.4	18.04	68.275		
4,800.0	4,648.5	4,694.5	4,694.5	21.6	8.2	-18.78	1,471.8	1,732.8	1,203.6	1,185.1	18.53	64.965		
4,900.0	4,744.1	4,790.1	4,790.1	22.2	8.3	-19.24	1,471.8	1,732.8	1,175.9	1,156.8	19.03	61.794		
5,000.0	4,839.7	4,885.7	4,885.7	22.7	8.5	-19.72	1,471.8	1,732.8	1,148.2	1,128.6	19.54	58.755		
5,100.0	4,935.3	4,981.3	4,981.3	23.3	8.7	-20.22	1,471.8	1,732.8	1,120.5	1,100.5	20.07	55.841		

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 1G-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 1G-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 3C-2H - HZ - Plan #2													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)				
5,204.0	5,034.8	5,080.8	5,080.8	23.9	8.8	-20.77	1,471.8	1,732.8	1,091.9	1,071.3	20.63	52.936		
5,300.0	5,126.8	5,172.8	5,172.8	24.4	9.0	-21.19	1,471.8	1,732.8	1,066.3	1,045.1	21.15	50.410		
5,400.0	5,223.2	5,269.2	5,269.2	24.9	9.2	-21.62	1,471.8	1,732.8	1,041.2	1,019.5	21.70	47.993		
5,500.0	5,320.0	5,366.0	5,366.0	25.3	9.3	-22.05	1,471.8	1,732.8	1,017.8	995.6	22.23	45.781		
5,600.0	5,417.2	5,463.2	5,463.2	25.8	9.5	-22.47	1,471.8	1,732.8	996.1	973.3	22.76	43.761		
5,700.0	5,514.8	5,560.8	5,560.8	26.2	9.7	-22.87	1,471.8	1,732.8	976.0	952.7	23.28	41.919		
5,800.0	5,612.8	5,658.8	5,658.8	26.5	9.9	-23.26	1,471.8	1,732.8	957.5	933.7	23.79	40.246		
5,900.0	5,711.1	5,757.1	5,757.1	26.9	10.0	-23.63	1,471.8	1,732.8	940.7	916.4	24.29	38.731		
6,000.0	5,809.7	5,855.7	5,855.7	27.2	10.2	-23.98	1,471.8	1,732.8	925.5	900.7	24.77	37.363		
6,100.0	5,908.6	5,954.6	5,954.6	27.5	10.4	-24.30	1,471.8	1,732.8	911.9	886.7	25.24	36.136		
6,200.0	6,007.7	6,053.7	6,053.7	27.8	10.5	-24.60	1,471.8	1,732.8	899.9	874.2	25.68	35.040		
6,300.0	6,107.1	6,153.1	6,153.1	28.0	10.7	-24.86	1,471.8	1,732.8	889.6	863.5	26.11	34.068		
6,400.0	6,206.6	6,252.6	6,252.6	28.2	10.9	-25.08	1,471.8	1,732.8	880.8	854.3	26.52	33.213		
6,500.0	6,306.3	6,352.3	6,352.3	28.4	11.1	-25.27	1,471.8	1,732.8	873.6	846.7	26.91	32.470		
6,600.0	6,406.1	6,452.1	6,452.1	28.6	11.2	-25.42	1,471.8	1,732.8	868.1	840.8	27.27	31.833		
6,700.0	6,506.0	6,552.0	6,552.0	28.7	11.4	-25.53	1,471.8	1,732.8	864.1	836.5	27.61	31.295		
6,789.8	6,595.8	6,626.3	6,626.3	28.8	11.5	-25.59	1,472.0	1,732.8	862.1	834.2	27.87	30.936 CC, ES		
6,800.0	6,606.0	6,631.2	6,631.2	28.8	11.6	-25.60	1,472.1	1,732.9	862.1	834.2	27.89	30.912		
6,904.0	6,710.0	6,681.4	6,681.3	28.9	11.6	33.35	1,475.2	1,733.2	867.0	838.9	28.13	30.820		
6,918.8	6,724.8	6,700.0	6,699.8	28.9	11.7	33.29	1,477.2	1,733.4	868.5	840.3	28.20	30.798 SF		
6,950.0	6,756.0	6,700.0	6,699.8	28.9	11.7	-146.55	1,477.2	1,733.4	872.2	844.0	28.14	30.995		
7,000.0	6,805.8	6,726.7	6,726.2	28.9	11.7	-146.30	1,481.0	1,733.8	881.8	853.8	28.03	31.459		
7,050.0	6,855.2	6,750.0	6,749.1	28.8	11.8	-145.91	1,485.0	1,734.2	895.7	867.9	27.79	32.225		
7,100.0	6,904.0	6,770.5	6,769.2	28.8	11.8	-145.34	1,489.2	1,734.6	913.6	886.2	27.43	33.307		
7,150.0	6,952.0	6,800.0	6,797.8	28.7	11.9	-144.79	1,496.3	1,735.3	935.6	908.6	27.02	34.623		
7,200.0	6,998.8	6,800.0	6,797.8	28.6	11.9	-143.39	1,496.3	1,735.3	961.2	934.9	26.32	36.520		
7,250.0	7,044.3	6,825.8	6,822.6	28.5	11.9	-142.34	1,503.4	1,736.1	990.2	964.4	25.73	38.489		
7,300.0	7,088.2	6,850.0	6,845.6	28.3	12.0	-141.02	1,510.9	1,736.8	1,022.5	997.4	25.08	40.773		
7,350.0	7,130.4	6,850.0	6,845.6	28.2	12.0	-138.49	1,510.9	1,736.8	1,057.5	1,033.2	24.25	43.607		
7,400.0	7,170.6	6,865.7	6,860.4	28.0	12.0	-136.05	1,516.1	1,737.4	1,095.1	1,071.5	23.60	46.394		
7,450.0	7,208.6	6,875.5	6,869.6	27.8	12.0	-132.77	1,519.6	1,737.7	1,135.0	1,111.9	23.08	49.183		
7,500.0	7,244.3	6,883.6	6,877.2	27.7	12.0	-128.63	1,522.5	1,738.0	1,176.8	1,154.0	22.82	51.565		
7,550.0	7,277.4	6,900.0	6,892.3	27.5	12.1	-124.19	1,528.7	1,738.6	1,220.3	1,197.4	22.93	53.221		
7,600.0	7,307.8	6,900.0	6,892.3	27.3	12.1	-117.39	1,528.7	1,738.6	1,264.9	1,241.4	23.57	53.672		
7,650.0	7,335.4	6,900.0	6,892.3	27.2	12.1	-109.14	1,528.7	1,738.6	1,310.6	1,285.9	24.67	53.124		
7,700.0	7,360.0	6,900.0	6,892.3	27.0	12.1	-99.49	1,528.7	1,738.6	1,357.0	1,331.1	25.93	52.325		
7,750.0	7,381.6	6,900.0	6,892.3	26.9	12.1	-88.81	1,528.7	1,738.6	1,403.8	1,377.0	26.88	52.220		
7,800.0	7,399.9	6,900.0	6,892.3	26.8	12.1	-77.82	1,528.7	1,738.6	1,450.9	1,423.8	27.10	53.529		
7,850.0	7,414.9	6,900.0	6,892.3	26.7	12.1	-67.35	1,528.7	1,738.6	1,497.9	1,471.4	26.49	56.549		
7,900.0	7,426.6	6,900.0	6,892.3	26.6	12.1	-58.04	1,528.7	1,738.6	1,544.6	1,519.3	25.26	61.143		
7,950.0	7,434.9	6,900.0	6,892.3	26.5	12.1	-50.15	1,528.7	1,738.6	1,590.8	1,567.0	23.81	66.827		
8,000.0	7,439.7	6,900.0	6,892.3	26.5	12.1	-43.64	1,528.7	1,738.6	1,636.5	1,614.0	22.46	72.852		
8,043.8	7,441.0	6,900.0	6,892.3	26.5	12.1	-38.93	1,528.7	1,738.6	1,675.8	1,654.2	21.57	77.699		
8,100.0	7,441.0	6,877.8	6,871.7	26.6	12.0	-37.93	1,520.4	1,737.8	1,725.5	1,704.0	21.48	80.345		
8,200.0	7,441.0	6,850.0	6,845.6	26.7	12.0	-36.73	1,510.9	1,736.8	1,815.5	1,793.9	21.50	84.422		
8,300.0	7,441.0	6,850.0	6,845.6	27.0	12.0	-36.73	1,510.9	1,736.8	1,905.7	1,883.8	21.88	87.113		
8,400.0	7,441.0	6,850.0	6,845.6	27.4	12.0	-36.73	1,510.9	1,736.8	1,996.9	1,974.6	22.32	89.457		
8,500.0	7,441.0	6,850.0	6,845.6	27.8	12.0	-36.73	1,510.9	1,736.8	2,088.9	2,066.1	22.84	91.475		
8,600.0	7,441.0	6,850.0	6,845.6	28.4	12.0	-36.73	1,510.9	1,736.8	2,181.6	2,158.2	23.41	93.195		
8,700.0	7,441.0	6,825.6	6,822.4	29.1	11.9	-35.71	1,503.3	1,736.0	2,274.4	2,250.7	23.76	95.711		
8,800.0	7,441.0	6,800.0	6,797.8	29.9	11.9	-34.69	1,496.3	1,735.3	2,368.3	2,344.1	24.13	98.155		
8,900.0	7,441.0	6,800.0	6,797.8	30.8	11.9	-34.69	1,496.3	1,735.3	2,462.1	2,437.2	24.81	99.252		

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 1G-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 1G-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 3C-2H - HZ - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	7,441.0	6,800.0	6,797.8	31.7	11.9	-34.69	1,496.3	1,735.3	2,556.3	2,530.8	25.52	100.177		
9,100.0	7,441.0	6,800.0	6,797.8	32.7	11.9	-34.69	1,496.3	1,735.3	2,651.0	2,624.7	26.26	100.955		
9,200.0	7,441.0	6,800.0	6,797.8	33.8	11.9	-34.69	1,496.3	1,735.3	2,746.0	2,719.0	27.03	101.606		
9,300.0	7,441.0	6,800.0	6,797.8	34.9	11.9	-34.69	1,496.3	1,735.3	2,841.4	2,813.6	27.82	102.150		
9,400.0	7,441.0	6,800.0	6,797.8	36.1	11.9	-34.69	1,496.3	1,735.3	2,937.1	2,908.5	28.63	102.603		
9,500.0	7,441.0	6,800.0	6,797.8	37.3	11.9	-34.69	1,496.3	1,735.3	3,033.1	3,003.6	29.45	102.978		
9,600.0	7,441.0	6,776.5	6,775.0	38.6	11.8	-33.79	1,490.6	1,734.7	3,128.9	3,099.0	29.89	104.672		
9,700.0	7,441.0	6,772.3	6,771.0	39.9	11.8	-33.63	1,489.6	1,734.7	3,225.1	3,194.5	30.66	105.205		
9,800.0	7,441.0	6,750.0	6,749.1	41.2	11.8	-32.82	1,485.0	1,734.2	3,321.9	3,290.8	31.10	106.829		
9,900.0	7,441.0	6,750.0	6,749.1	42.6	11.8	-32.82	1,485.0	1,734.2	3,418.4	3,386.5	31.93	107.053		
10,000.0	7,441.0	6,750.0	6,749.1	44.0	11.8	-32.82	1,485.0	1,734.2	3,515.2	3,482.4	32.78	107.241		
10,100.0	7,441.0	6,750.0	6,749.1	45.4	11.8	-32.82	1,485.0	1,734.2	3,612.1	3,578.5	33.63	107.397		
10,200.0	7,441.0	6,750.0	6,749.1	46.9	11.8	-32.82	1,485.0	1,734.2	3,709.2	3,674.7	34.50	107.526		
10,300.0	7,441.0	6,750.0	6,749.1	48.4	11.8	-32.82	1,485.0	1,734.2	3,806.4	3,771.0	35.37	107.632		
10,400.0	7,441.0	6,750.0	6,749.1	49.8	11.8	-32.82	1,485.0	1,734.2	3,903.8	3,867.5	36.24	107.718		
10,500.0	7,441.0	6,750.0	6,749.1	51.3	11.8	-32.82	1,485.0	1,734.2	4,001.3	3,964.2	37.12	107.786		
10,600.0	7,441.0	6,750.0	6,749.1	52.9	11.8	-32.82	1,485.0	1,734.2	4,098.9	4,060.9	38.01	107.840		
10,700.0	7,441.0	6,750.0	6,749.1	54.4	11.8	-32.82	1,485.0	1,734.2	4,196.6	4,157.7	38.90	107.881		
10,800.0	7,441.0	6,750.0	6,749.1	55.9	11.8	-32.82	1,485.0	1,734.2	4,294.5	4,254.7	39.80	107.912		
10,900.0	7,441.0	6,750.0	6,749.1	57.5	11.8	-32.82	1,485.0	1,734.2	4,392.4	4,351.7	40.70	107.932		
11,000.0	7,441.0	6,750.0	6,749.1	59.1	11.8	-32.82	1,485.0	1,734.2	4,490.4	4,448.8	41.60	107.945		
11,100.0	7,441.0	6,750.0	6,749.1	60.7	11.8	-32.82	1,485.0	1,734.2	4,588.5	4,546.0	42.51	107.950		
11,200.0	7,441.0	6,750.0	6,749.1	62.2	11.8	-32.82	1,485.0	1,734.2	4,686.7	4,643.3	43.42	107.949		
11,300.0	7,441.0	6,726.2	6,725.7	63.8	11.7	-31.99	1,480.9	1,733.8	4,784.6	4,740.9	43.61	109.714		
11,400.0	7,441.0	6,724.2	6,723.7	65.4	11.7	-31.92	1,480.6	1,733.7	4,882.8	4,838.4	44.44	109.869		
11,500.0	7,441.0	6,722.3	6,721.8	67.1	11.7	-31.85	1,480.3	1,733.7	4,981.1	4,935.9	45.28	110.016		
11,600.0	7,441.0	6,700.0	6,699.8	68.7	11.7	-31.11	1,477.2	1,733.4	5,079.8	5,034.4	45.47	111.712		
11,700.0	7,441.0	6,700.0	6,699.8	70.3	11.7	-31.11	1,477.2	1,733.4	5,178.2	5,131.9	46.35	111.716		
11,800.0	7,441.0	6,700.0	6,699.8	71.9	11.7	-31.11	1,477.2	1,733.4	5,276.7	5,229.4	47.23	111.715		
11,900.0	7,441.0	6,700.0	6,699.8	73.6	11.7	-31.11	1,477.2	1,733.4	5,375.2	5,327.0	48.12	111.712		
12,000.0	7,441.0	6,700.0	6,699.8	75.2	11.7	-31.11	1,477.2	1,733.4	5,473.7	5,424.7	49.00	111.706		
12,100.0	7,441.0	6,700.0	6,699.8	76.9	11.7	-31.11	1,477.2	1,733.4	5,572.3	5,522.4	49.89	111.698		
12,135.7	7,441.0	6,700.0	6,699.8	77.5	11.7	-31.11	1,477.2	1,733.4	5,607.5	5,557.3	50.20	111.694		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3C-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		
0.0	0.0	46.0	46.0	0.0	0.1	49.66	1,471.8	1,732.8	2,273.5					
100.0	100.0	146.0	146.0	0.2	0.2	49.66	1,471.8	1,732.8	2,273.5	2,273.1	0.39	5,894.267		
200.0	200.0	246.0	246.0	0.3	0.4	49.66	1,471.8	1,732.8	2,273.5	2,272.8	0.73	3,094.141		
300.0	300.0	346.0	346.0	0.5	0.6	-9.43	1,471.8	1,732.8	2,272.7	2,271.6	1.08	2,096.999		
400.0	400.0	446.0	446.0	0.7	0.8	-9.44	1,471.8	1,732.8	2,270.1	2,268.6	1.43	1,584.640		
500.0	499.9	545.9	545.9	0.9	0.9	-9.47	1,471.8	1,732.8	2,265.8	2,264.0	1.78	1,272.142		
600.0	599.7	645.7	645.7	1.1	1.1	-9.50	1,471.8	1,732.8	2,259.8	2,257.6	2.13	1,061.281		
700.0	699.4	745.4	745.4	1.3	1.3	-9.55	1,471.8	1,732.8	2,252.0	2,249.5	2.48	909.134		
800.0	798.9	844.9	844.9	1.5	1.5	-9.61	1,471.8	1,732.8	2,242.6	2,239.7	2.82	793.962		
900.0	898.3	944.3	944.3	1.8	1.6	-9.67	1,471.8	1,732.8	2,231.4	2,228.2	3.17	703.575		
1,000.0	997.4	1,043.4	1,043.4	2.0	1.8	-9.75	1,471.8	1,732.8	2,218.5	2,215.0	3.52	630.610		
1,100.0	1,096.3	1,142.3	1,142.3	2.3	2.0	-9.84	1,471.8	1,732.8	2,204.0	2,200.1	3.86	570.352		
1,200.0	1,194.9	1,240.9	1,240.9	2.7	2.1	-9.94	1,471.8	1,732.8	2,187.7	2,183.5	4.21	519.645		
1,300.0	1,293.3	1,339.3	1,339.3	3.0	2.3	-10.06	1,471.8	1,732.8	2,169.7	2,165.2	4.56	476.296		
1,400.0	1,391.2	1,437.2	1,437.2	3.4	2.5	-10.19	1,471.8	1,732.8	2,150.1	2,145.2	4.90	438.730		
1,500.0	1,488.9	1,534.9	1,534.9	3.8	2.7	-10.33	1,471.8	1,732.8	2,128.8	2,123.5	5.25	405.793		
1,600.0	1,586.1	1,632.1	1,632.1	4.2	2.8	-10.49	1,471.8	1,732.8	2,105.8	2,100.2	5.59	376.612		
1,700.0	1,682.9	1,728.9	1,728.9	4.7	3.0	-10.66	1,471.8	1,732.8	2,081.2	2,075.2	5.94	350.520		
1,800.0	1,779.3	1,825.3	1,825.3	5.2	3.2	-10.85	1,471.8	1,732.8	2,054.9	2,048.6	6.28	326.997		
1,900.0	1,875.2	1,921.2	1,921.2	5.7	3.3	-11.05	1,471.8	1,732.8	2,027.0	2,020.3	6.63	305.629		
2,000.0	1,970.8	2,016.8	2,016.8	6.3	3.5	-11.21	1,471.8	1,732.8	1,998.2	1,991.2	7.00	285.604		
2,100.0	2,066.4	2,112.4	2,112.4	6.8	3.7	-11.38	1,471.8	1,732.8	1,969.5	1,962.1	7.36	267.493		
2,200.0	2,162.1	2,208.1	2,208.1	7.3	3.8	-11.55	1,471.8	1,732.8	1,940.8	1,933.1	7.73	251.037		
2,300.0	2,257.7	2,303.7	2,303.7	7.9	4.0	-11.72	1,471.8	1,732.8	1,912.1	1,904.0	8.10	236.020		
2,400.0	2,353.3	2,399.3	2,399.3	8.4	4.2	-11.91	1,471.8	1,732.8	1,883.5	1,875.0	8.47	222.262		
2,500.0	2,448.9	2,494.9	2,494.9	9.0	4.3	-12.09	1,471.8	1,732.8	1,854.8	1,846.0	8.85	209.612		
2,600.0	2,544.6	2,590.6	2,590.6	9.5	4.5	-12.28	1,471.8	1,732.8	1,826.2	1,816.9	9.23	197.942		
2,700.0	2,640.2	2,686.2	2,686.2	10.1	4.7	-12.48	1,471.8	1,732.8	1,797.6	1,788.0	9.61	187.143		
2,800.0	2,735.8	2,781.8	2,781.8	10.6	4.8	-12.68	1,471.8	1,732.8	1,769.0	1,759.0	9.99	177.121		
2,900.0	2,831.5	2,877.5	2,877.5	11.2	5.0	-12.90	1,471.8	1,732.8	1,740.4	1,730.0	10.37	167.796		
3,000.0	2,927.1	2,973.1	2,973.1	11.7	5.2	-13.11	1,471.8	1,732.8	1,711.8	1,701.1	10.76	159.097		
3,100.0	3,022.7	3,068.7	3,068.7	12.2	5.3	-13.34	1,471.8	1,732.8	1,683.3	1,672.2	11.15	150.964		
3,200.0	3,118.4	3,164.4	3,164.4	12.8	5.5	-13.57	1,471.8	1,732.8	1,654.8	1,643.3	11.54	143.344		
3,300.0	3,214.0	3,260.0	3,260.0	13.3	5.7	-13.81	1,471.8	1,732.8	1,626.3	1,614.4	11.94	136.189		
3,400.0	3,309.6	3,355.6	3,355.6	13.9	5.8	-14.06	1,471.8	1,732.8	1,597.9	1,585.6	12.34	129.459		
3,500.0	3,405.3	3,451.3	3,451.3	14.4	6.0	-14.32	1,471.8	1,732.8	1,569.5	1,556.7	12.75	123.117		
3,600.0	3,500.9	3,546.9	3,546.9	15.0	6.2	-14.59	1,471.8	1,732.8	1,541.1	1,527.9	13.16	117.130		
3,700.0	3,596.5	3,642.5	3,642.5	15.5	6.3	-14.87	1,471.8	1,732.8	1,512.7	1,499.2	13.57	111.471		
3,800.0	3,692.1	3,738.1	3,738.1	16.1	6.5	-15.16	1,471.8	1,732.8	1,484.4	1,470.4	13.99	106.112		
3,900.0	3,787.8	3,833.8	3,833.8	16.7	6.7	-15.46	1,471.8	1,732.8	1,456.1	1,441.7	14.41	101.031		
4,000.0	3,883.4	3,929.4	3,929.4	17.2	6.8	-15.77	1,471.8	1,732.8	1,427.9	1,413.0	14.84	96.208		
4,100.0	3,979.0	4,060.6	4,060.6	17.8	7.1	-16.19	1,470.8	1,732.7	1,399.4	1,384.0	15.35	91.154		
4,200.0	4,074.7	4,283.6	4,282.5	18.3	7.5	-16.47	1,450.9	1,730.3	1,364.3	1,348.3	16.00	85.258		
4,300.0	4,170.3	4,489.9	4,484.5	18.9	7.9	-16.09	1,409.8	1,725.4	1,321.0	1,304.4	16.54	79.860		
4,400.0	4,265.9	4,583.2	4,574.7	19.4	8.2	-15.73	1,385.8	1,722.5	1,273.5	1,256.6	16.89	75.408		
4,500.0	4,361.6	4,670.9	4,659.4	20.0	8.4	-15.36	1,363.3	1,719.7	1,226.0	1,208.8	17.23	71.172		
4,600.0	4,457.2	4,758.7	4,744.2	20.5	8.7	-14.96	1,340.7	1,717.0	1,178.6	1,161.1	17.56	67.107		
4,700.0	4,552.8	4,846.4	4,828.9	21.1	8.9	-14.53	1,318.2	1,714.3	1,131.3	1,113.4	17.90	63.206		
4,800.0	4,648.5	4,934.1	4,913.7	21.6	9.2	-14.06	1,295.7	1,711.6	1,083.9	1,065.7	18.23	59.460		
4,900.0	4,744.1	5,021.9	4,998.4	22.2	9.5	-13.55	1,273.1	1,708.9	1,036.7	1,018.1	18.56	55.861		
5,000.0	4,839.7	5,109.6	5,083.2	22.7	9.8	-12.99	1,250.6	1,706.2	989.5	970.6	18.88	52.402		
5,100.0	4,935.3	5,197.3	5,167.9	23.3	10.1	-12.37	1,228.0	1,703.4	942.4	923.2	19.20	49.073		

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 1G-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 1G-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 3C-2H - HZ - Plan #3													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)				
5,204.0	5,034.8	5,288.6	5,256.0	23.9	10.4	-11.67	1,204.6	1,700.6	893.5	874.0	19.53	45.742		
5,300.0	5,126.8	5,373.2	5,337.7	24.4	10.8	-10.83	1,182.9	1,698.0	849.2	829.4	19.86	42.760		
5,400.0	5,223.2	5,462.0	5,423.5	24.9	11.1	-9.87	1,160.0	1,695.2	804.7	784.5	20.20	39.842		
5,500.0	5,320.0	5,551.5	5,510.0	25.3	11.4	-8.80	1,137.0	1,692.5	761.9	741.4	20.54	37.099		
5,600.0	5,417.2	5,641.7	5,597.1	25.8	11.8	-7.60	1,113.9	1,689.7	720.9	700.0	20.89	34.517		
5,700.0	5,514.8	5,732.5	5,684.9	26.2	12.2	-6.27	1,090.5	1,686.9	681.7	660.5	21.25	32.080		
5,800.0	5,612.8	5,824.0	5,773.2	26.5	12.5	-4.78	1,067.0	1,684.0	644.5	622.9	21.65	29.775		
5,900.0	5,711.1	5,916.1	5,862.1	26.9	12.9	-3.13	1,043.4	1,681.2	609.3	587.3	22.09	27.588		
6,000.0	5,809.7	6,008.7	5,951.6	27.2	13.3	-1.29	1,019.6	1,678.3	576.3	553.7	22.59	25.510		
6,100.0	5,908.6	6,101.9	6,041.6	27.5	13.7	0.74	995.6	1,675.4	545.5	522.4	23.18	23.532		
6,200.0	6,007.7	6,195.5	6,132.1	27.8	14.1	2.98	971.6	1,672.5	517.2	493.3	23.89	21.652		
6,300.0	6,107.1	6,289.7	6,223.0	28.0	14.5	5.44	947.4	1,669.6	491.3	466.6	24.72	19.874		
6,400.0	6,206.6	6,384.3	6,314.4	28.2	14.9	8.12	923.1	1,666.7	468.2	442.5	25.71	18.209		
6,500.0	6,306.3	6,479.3	6,406.2	28.4	15.3	11.00	898.7	1,663.7	447.8	421.0	26.86	16.672		
6,600.0	6,406.1	6,574.8	6,498.4	28.6	15.7	14.09	874.1	1,660.8	430.5	402.3	28.17	15.281		
6,700.0	6,506.0	6,670.6	6,590.9	28.7	16.1	17.34	849.5	1,657.8	416.2	386.5	29.62	14.052		
6,800.0	6,606.0	6,766.7	6,683.8	28.8	16.5	20.73	824.8	1,654.8	405.0	373.8	31.17	12.994		
6,904.0	6,710.0	6,852.8	6,768.1	28.9	16.8	22.15	808.0	1,652.7	398.4	366.0	32.30	12.332		
6,918.8	6,724.8	6,865.1	6,780.3	28.9	16.9	22.31	806.9	1,652.5	397.9	365.5	32.40	12.283		
6,950.0	6,756.0	6,891.1	6,806.3	28.9	16.9	-97.60	805.4	1,652.3	397.5	365.0	32.49	12.234		
6,958.2	6,764.1	6,897.9	6,813.2	28.9	16.9	-97.63	805.2	1,652.2	397.5	365.0	32.49	12.233 CC, ES, SF		
7,000.0	6,805.8	6,932.6	6,847.8	28.9	16.9	-98.11	806.0	1,652.2	398.0	365.6	32.37	12.295		
7,050.0	6,855.2	6,972.4	6,887.4	28.8	16.9	-99.31	809.9	1,652.4	400.2	368.3	31.98	12.515		
7,100.0	6,904.0	7,009.3	6,923.7	28.8	16.9	-100.94	816.4	1,652.9	404.7	373.3	31.42	12.879		
7,150.0	6,952.0	7,042.3	6,955.7	28.7	16.8	-102.69	824.7	1,653.7	412.1	381.2	30.82	13.368		
7,200.0	6,998.8	7,071.1	6,983.0	28.6	16.7	-104.24	833.6	1,654.5	423.0	392.7	30.29	13.963		
7,250.0	7,044.3	7,095.5	7,005.7	28.5	16.7	-105.36	842.4	1,655.3	437.8	408.0	29.89	14.650		
7,300.0	7,088.2	7,115.8	7,024.2	28.3	16.6	-105.87	850.6	1,656.1	457.0	427.3	29.65	15.414		
7,350.0	7,130.4	7,132.1	7,038.9	28.2	16.5	-105.67	857.8	1,656.8	480.3	450.7	29.58	16.238		
7,400.0	7,170.6	7,150.0	7,054.6	28.0	16.4	-105.29	866.3	1,657.6	507.6	478.1	29.53	17.189		
7,450.0	7,208.6	7,150.0	7,054.6	27.8	16.4	-102.25	866.3	1,657.6	538.4	508.3	30.12	17.879		
7,500.0	7,244.3	7,161.7	7,064.7	27.7	16.4	-100.15	872.1	1,658.2	572.3	541.9	30.39	18.829		
7,550.0	7,277.4	7,166.3	7,068.7	27.5	16.4	-96.58	874.5	1,658.4	608.7	577.7	30.91	19.690		
7,600.0	7,307.8	7,175.0	7,076.1	27.3	16.3	-93.02	879.0	1,658.9	647.1	615.9	31.28	20.692		
7,650.0	7,335.4	7,175.0	7,076.1	27.2	16.3	-87.70	879.0	1,658.9	687.1	655.4	31.73	21.655		
7,700.0	7,360.0	7,175.0	7,076.1	27.0	16.3	-81.94	879.0	1,658.9	728.2	696.3	31.89	22.832		
7,750.0	7,381.6	7,166.7	7,069.1	26.9	16.4	-74.80	874.7	1,658.5	770.0	738.3	31.73	24.270		
7,800.0	7,399.9	7,163.4	7,066.2	26.8	16.4	-68.36	873.0	1,658.3	812.3	781.3	31.04	26.174		
7,850.0	7,414.9	7,159.1	7,062.5	26.7	16.4	-62.03	870.8	1,658.1	854.7	824.8	29.94	28.548		
7,900.0	7,426.6	7,150.0	7,054.6	26.6	16.4	-55.67	866.3	1,657.6	897.1	868.6	28.52	31.451		
7,950.0	7,434.9	7,150.0	7,054.6	26.5	16.4	-50.73	866.3	1,657.6	939.0	911.9	27.13	34.616		
8,000.0	7,439.7	7,141.0	7,046.8	26.5	16.5	-45.63	862.0	1,657.2	980.5	954.7	25.72	38.124		
8,043.8	7,441.0	7,134.6	7,041.1	26.5	16.5	-41.80	859.0	1,656.9	1,016.2	991.5	24.72	41.117		
8,100.0	7,441.0	7,125.0	7,032.5	26.6	16.5	-41.23	854.7	1,656.5	1,062.0	1,037.3	24.72	42.961		
8,200.0	7,441.0	7,113.0	7,021.7	26.7	16.6	-40.52	849.5	1,656.0	1,145.5	1,120.6	24.87	46.061		
8,300.0	7,441.0	7,100.0	7,009.9	27.0	16.6	-39.78	844.2	1,655.5	1,231.0	1,205.9	25.09	49.054		
8,400.0	7,441.0	7,090.3	7,000.9	27.4	16.7	-39.23	840.4	1,655.1	1,318.1	1,292.7	25.43	51.824		
8,500.0	7,441.0	7,075.0	6,986.7	27.8	16.7	-38.38	834.9	1,654.6	1,406.8	1,381.0	25.76	54.604		
8,600.0	7,441.0	7,075.0	6,986.7	28.4	16.7	-38.38	834.9	1,654.6	1,496.6	1,470.2	26.36	56.780		
8,700.0	7,441.0	7,064.0	6,976.3	29.1	16.8	-37.79	831.2	1,654.3	1,587.5	1,560.6	26.84	59.147		
8,800.0	7,441.0	7,050.0	6,963.0	29.9	16.8	-37.05	826.9	1,653.9	1,679.3	1,652.0	27.31	61.497		
8,900.0	7,441.0	7,050.0	6,963.0	30.8	16.8	-37.05	826.9	1,653.9	1,771.7	1,743.7	28.03	63.217		

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 1G-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 1G-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 3C-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						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	7,441.0	7,050.0	6,963.0	31.7	16.8	-37.05	826.9	1,653.9	1,865.0	1,836.2	28.78	64.796		
9,100.0	7,441.0	7,038.4	6,951.9	32.7	16.8	-36.45	823.6	1,653.6	1,958.7	1,929.4	29.35	66.734		
9,200.0	7,441.0	7,025.0	6,939.0	33.8	16.9	-35.78	820.1	1,653.3	2,053.1	2,023.2	29.89	68.681		
9,300.0	7,441.0	7,025.0	6,939.0	34.9	16.9	-35.78	820.1	1,653.3	2,147.8	2,117.1	30.71	69.946		
9,400.0	7,441.0	7,025.0	6,939.0	36.1	16.9	-35.78	820.1	1,653.3	2,243.0	2,211.4	31.54	71.114		
9,500.0	7,441.0	7,025.0	6,939.0	37.3	16.9	-35.78	820.1	1,653.3	2,338.5	2,306.1	32.39	72.194		
9,600.0	7,441.0	7,025.0	6,939.0	38.6	16.9	-35.78	820.1	1,653.3	2,434.4	2,401.2	33.26	73.194		
9,700.0	7,441.0	7,012.2	6,926.5	39.9	16.9	-35.16	817.1	1,653.0	2,530.4	2,496.6	33.83	74.806		
9,800.0	7,441.0	7,000.0	6,914.6	41.2	16.9	-34.57	814.5	1,652.8	2,626.9	2,592.5	34.40	76.369		
9,900.0	7,441.0	7,000.0	6,914.6	42.6	16.9	-34.57	814.5	1,652.8	2,723.5	2,688.2	35.28	77.206		
10,000.0	7,441.0	7,000.0	6,914.6	44.0	16.9	-34.57	814.5	1,652.8	2,820.3	2,784.1	36.16	77.988		
10,100.0	7,441.0	7,000.0	6,914.6	45.4	16.9	-34.57	814.5	1,652.8	2,917.3	2,880.2	37.06	78.719		
10,200.0	7,441.0	7,000.0	6,914.6	46.9	16.9	-34.57	814.5	1,652.8	3,014.5	2,976.6	37.96	79.404		
10,300.0	7,441.0	7,000.0	6,914.6	48.4	16.9	-34.57	814.5	1,652.8	3,111.9	3,073.0	38.88	80.047		
10,400.0	7,441.0	7,000.0	6,914.6	49.8	16.9	-34.57	814.5	1,652.8	3,209.5	3,169.7	39.79	80.651		
10,500.0	7,441.0	7,000.0	6,914.6	51.3	16.9	-34.57	814.5	1,652.8	3,307.2	3,266.4	40.72	81.220		
10,600.0	7,441.0	6,987.7	6,902.5	52.9	16.9	-34.01	812.3	1,652.6	3,404.8	3,363.6	41.23	82.574		
10,700.0	7,441.0	6,975.0	6,890.0	54.4	16.9	-33.43	810.3	1,652.4	3,502.8	3,461.1	41.72	83.961		
10,800.0	7,441.0	6,975.0	6,890.0	55.9	16.9	-33.43	810.3	1,652.4	3,600.8	3,558.1	42.63	84.465		
10,900.0	7,441.0	6,975.0	6,890.0	57.5	16.9	-33.43	810.3	1,652.4	3,698.8	3,655.3	43.55	84.942		
11,000.0	7,441.0	6,975.0	6,890.0	59.1	16.9	-33.43	810.3	1,652.4	3,797.0	3,752.5	44.46	85.395		
11,100.0	7,441.0	6,975.0	6,890.0	60.7	16.9	-33.43	810.3	1,652.4	3,895.3	3,849.9	45.39	85.825		
11,200.0	7,441.0	6,975.0	6,890.0	62.2	16.9	-33.43	810.3	1,652.4	3,993.6	3,947.3	46.31	86.234		
11,300.0	7,441.0	6,975.0	6,890.0	63.8	16.9	-33.43	810.3	1,652.4	4,092.0	4,044.8	47.24	86.624		
11,400.0	7,441.0	6,975.0	6,890.0	65.4	16.9	-33.43	810.3	1,652.4	4,190.5	4,142.3	48.17	86.995		
11,500.0	7,441.0	6,975.0	6,890.0	67.1	16.9	-33.43	810.3	1,652.4	4,289.1	4,240.0	49.10	87.349		
11,600.0	7,441.0	6,975.0	6,890.0	68.7	16.9	-33.43	810.3	1,652.4	4,387.7	4,337.7	50.04	87.688		
11,700.0	7,441.0	6,975.0	6,890.0	70.3	16.9	-33.43	810.3	1,652.4	4,486.4	4,435.4	50.98	88.011		
11,800.0	7,441.0	6,975.0	6,890.0	71.9	16.9	-33.43	810.3	1,652.4	4,585.1	4,533.2	51.92	88.320		
11,900.0	7,441.0	6,975.0	6,890.0	73.6	16.9	-33.43	810.3	1,652.4	4,683.9	4,631.1	52.86	88.616		
12,000.0	7,441.0	6,975.0	6,890.0	75.2	16.9	-33.43	810.3	1,652.4	4,782.8	4,729.0	53.80	88.900		
12,100.0	7,441.0	6,975.0	6,890.0	76.9	16.9	-33.43	810.3	1,652.4	4,881.7	4,827.0	54.74	89.173		
12,135.7	7,441.0	6,975.0	6,890.0	77.5	16.9	-33.43	810.3	1,652.4	4,917.0	4,861.9	55.08	89.267		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3D-2H - 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	47.0	47.0	0.0	0.1	50.30	1,457.2	1,755.2	2,281.3					
100.0	100.0	147.0	147.0	0.2	0.2	50.30	1,457.2	1,755.2	2,281.3	2,280.9	0.39	5,914.376		
200.0	200.0	247.0	247.0	0.3	0.4	50.30	1,457.2	1,755.2	2,281.3	2,280.5	0.73	3,104.698		
300.0	300.0	347.0	347.0	0.5	0.6	-8.79	1,457.2	1,755.2	2,280.4	2,279.3	1.08	2,104.162		
400.0	400.0	447.0	447.0	0.7	0.8	-8.80	1,457.2	1,755.2	2,277.8	2,276.4	1.43	1,590.076		
500.0	499.9	546.9	546.9	0.9	0.9	-8.82	1,457.2	1,755.2	2,273.5	2,271.7	1.78	1,276.542		
600.0	599.7	646.7	646.7	1.1	1.1	-8.86	1,457.2	1,755.2	2,267.5	2,265.4	2.13	1,064.997		
700.0	699.4	746.4	746.4	1.3	1.3	-8.90	1,457.2	1,755.2	2,259.7	2,257.3	2.48	912.370		
800.0	798.9	845.9	845.9	1.5	1.5	-8.95	1,457.2	1,755.2	2,250.3	2,247.4	2.82	796.848		
900.0	898.3	945.3	945.3	1.8	1.6	-9.01	1,457.2	1,755.2	2,239.1	2,235.9	3.17	706.199		
1,000.0	997.4	1,044.4	1,044.4	2.0	1.8	-9.09	1,457.2	1,755.2	2,226.2	2,222.7	3.52	633.032		
1,100.0	1,096.3	1,143.3	1,143.3	2.3	2.0	-9.17	1,457.2	1,755.2	2,211.6	2,207.7	3.86	572.618		
1,200.0	1,194.9	1,241.9	1,241.9	2.7	2.1	-9.27	1,457.2	1,755.2	2,195.3	2,191.1	4.21	521.790		
1,300.0	1,293.3	1,340.3	1,340.3	3.0	2.3	-9.37	1,457.2	1,755.2	2,177.3	2,172.8	4.55	478.346		
1,400.0	1,391.2	1,438.2	1,438.2	3.4	2.5	-9.49	1,457.2	1,755.2	2,157.6	2,152.7	4.90	440.709		
1,500.0	1,488.9	1,535.9	1,535.9	3.8	2.7	-9.62	1,457.2	1,755.2	2,136.3	2,131.0	5.24	407.718		
1,600.0	1,586.1	1,633.1	1,633.1	4.2	2.8	-9.77	1,457.2	1,755.2	2,113.2	2,107.7	5.58	378.499		
1,700.0	1,682.9	1,729.9	1,729.9	4.7	3.0	-9.93	1,457.2	1,755.2	2,088.6	2,082.6	5.93	352.382		
1,800.0	1,779.3	1,826.3	1,826.3	5.2	3.2	-10.11	1,457.2	1,755.2	2,062.2	2,055.9	6.27	328.845		
1,900.0	1,875.2	1,922.2	1,922.2	5.7	3.3	-10.30	1,457.2	1,755.2	2,034.2	2,027.6	6.62	307.474		
2,000.0	1,970.8	2,017.8	2,017.8	6.3	3.5	-10.45	1,457.2	1,755.2	2,005.4	1,998.4	6.98	287.427		
2,100.0	2,066.4	2,113.4	2,113.4	6.8	3.7	-10.60	1,457.2	1,755.2	1,976.6	1,969.3	7.34	269.294		
2,200.0	2,162.1	2,209.1	2,209.1	7.3	3.8	-10.76	1,457.2	1,755.2	1,947.9	1,940.2	7.70	252.814		
2,300.0	2,257.7	2,304.7	2,304.7	7.9	4.0	-10.92	1,457.2	1,755.2	1,919.1	1,911.0	8.07	237.772		
2,400.0	2,353.3	2,400.3	2,400.3	8.4	4.2	-11.09	1,457.2	1,755.2	1,890.4	1,881.9	8.44	223.990		
2,500.0	2,448.9	2,495.9	2,495.9	9.0	4.3	-11.26	1,457.2	1,755.2	1,861.6	1,852.8	8.81	211.315		
2,600.0	2,544.6	2,591.6	2,591.6	9.5	4.5	-11.44	1,457.2	1,755.2	1,832.9	1,823.7	9.18	199.620		
2,700.0	2,640.2	2,687.2	2,687.2	10.1	4.7	-11.62	1,457.2	1,755.2	1,804.2	1,794.7	9.56	188.795		
2,800.0	2,735.8	2,782.8	2,782.8	10.6	4.8	-11.81	1,457.2	1,755.2	1,775.5	1,765.6	9.93	178.748		
2,900.0	2,831.5	2,878.5	2,878.5	11.2	5.0	-12.01	1,457.2	1,755.2	1,746.9	1,736.6	10.31	169.397		
3,000.0	2,927.1	2,974.1	2,974.1	11.7	5.2	-12.21	1,457.2	1,755.2	1,718.2	1,707.5	10.69	160.673		
3,100.0	3,022.7	3,069.7	3,069.7	12.2	5.3	-12.42	1,457.2	1,755.2	1,689.6	1,678.5	11.08	152.515		
3,200.0	3,118.4	3,165.4	3,165.4	12.8	5.5	-12.64	1,457.2	1,755.2	1,661.0	1,649.6	11.47	144.870		
3,300.0	3,214.0	3,261.0	3,261.0	13.3	5.7	-12.86	1,457.2	1,755.2	1,632.4	1,620.6	11.86	137.690		
3,400.0	3,309.6	3,356.6	3,356.6	13.9	5.8	-13.09	1,457.2	1,755.2	1,603.9	1,591.6	12.25	130.936		
3,500.0	3,405.3	3,452.3	3,452.3	14.4	6.0	-13.33	1,457.2	1,755.2	1,575.4	1,562.7	12.65	124.569		
3,600.0	3,500.9	3,547.9	3,547.9	15.0	6.2	-13.58	1,457.2	1,755.2	1,546.9	1,533.8	13.05	118.559		
3,700.0	3,596.5	3,643.5	3,643.5	15.5	6.3	-13.84	1,457.2	1,755.2	1,518.4	1,504.9	13.45	112.875		
3,800.0	3,692.1	3,739.1	3,739.1	16.1	6.5	-14.11	1,457.2	1,755.2	1,490.0	1,476.1	13.86	107.492		
3,900.0	3,787.8	3,834.8	3,834.8	16.7	6.7	-14.39	1,457.2	1,755.2	1,461.5	1,447.3	14.27	102.387		
4,000.0	3,883.4	3,930.4	3,930.4	17.2	6.8	-14.68	1,457.2	1,755.2	1,433.2	1,418.5	14.69	97.540		
4,100.0	3,979.0	4,026.0	4,026.0	17.8	7.0	-14.98	1,457.2	1,755.2	1,404.8	1,389.7	15.12	92.931		
4,200.0	4,074.7	4,121.7	4,121.7	18.3	7.2	-15.29	1,457.2	1,755.2	1,376.5	1,361.0	15.55	88.543		
4,300.0	4,170.3	4,217.3	4,217.3	18.9	7.3	-15.62	1,457.2	1,755.2	1,348.2	1,332.3	15.98	84.362		
4,400.0	4,265.9	4,312.9	4,312.9	19.4	7.5	-15.96	1,457.2	1,755.2	1,320.0	1,303.6	16.42	80.372		
4,500.0	4,361.6	4,408.6	4,408.6	20.0	7.7	-16.32	1,457.2	1,755.2	1,291.8	1,275.0	16.87	76.563		
4,600.0	4,457.2	4,504.2	4,504.2	20.5	7.8	-16.69	1,457.2	1,755.2	1,263.7	1,246.4	17.33	72.921		
4,700.0	4,552.8	4,599.8	4,599.8	21.1	8.0	-17.08	1,457.2	1,755.2	1,235.6	1,217.8	17.79	69.438		
4,800.0	4,648.5	4,695.5	4,695.5	21.6	8.2	-17.48	1,457.2	1,755.2	1,207.6	1,189.3	18.27	66.102		
4,900.0	4,744.1	4,791.1	4,791.1	22.2	8.3	-17.91	1,457.2	1,755.2	1,179.7	1,160.9	18.75	62.906		
5,000.0	4,839.7	4,886.7	4,886.7	22.7	8.5	-18.35	1,457.2	1,755.2	1,151.7	1,132.5	19.25	59.841		
5,100.0	4,935.3	4,982.3	4,982.3	23.3	8.7	-18.82	1,457.2	1,755.2	1,123.9	1,104.2	19.75	56.900		

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 1G-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 1G-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 3D-2H - 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)			
5,204.0	5,034.8	5,081.8	5,081.8	23.9	8.8	-19.33	1,457.2	1,755.2	1,095.0	1,074.8	20.29	53.967	
5,300.0	5,126.8	5,173.8	5,173.8	24.4	9.0	-19.72	1,457.2	1,755.2	1,069.2	1,048.4	20.80	51.406	
5,400.0	5,223.2	5,270.2	5,270.2	24.9	9.2	-20.12	1,457.2	1,755.2	1,043.9	1,022.6	21.32	48.954	
5,500.0	5,320.0	5,367.0	5,367.0	25.3	9.3	-20.52	1,457.2	1,755.2	1,020.3	998.4	21.84	46.707	
5,600.0	5,417.2	5,464.2	5,464.2	25.8	9.5	-20.91	1,457.2	1,755.2	998.3	975.9	22.36	44.652	
5,700.0	5,514.8	5,561.8	5,561.8	26.2	9.7	-21.29	1,457.2	1,755.2	978.0	955.1	22.86	42.778	
5,800.0	5,612.8	5,659.8	5,659.8	26.5	9.9	-21.65	1,457.2	1,755.2	959.3	936.0	23.36	41.073	
5,900.0	5,711.1	5,758.1	5,758.1	26.9	10.0	-22.00	1,457.2	1,755.2	942.3	918.5	23.84	39.527	
6,000.0	5,809.7	5,856.7	5,856.7	27.2	10.2	-22.32	1,457.2	1,755.2	926.9	902.6	24.31	38.131	
6,100.0	5,908.6	5,937.1	5,937.1	27.5	10.3	-22.56	1,457.6	1,755.3	913.7	889.0	24.72	36.970	
6,200.0	6,007.7	6,000.0	5,999.9	27.8	10.4	-22.77	1,459.9	1,756.2	905.4	880.4	25.07	36.112	
6,300.0	6,107.1	6,070.3	6,070.1	28.0	10.6	-23.04	1,464.8	1,758.2	902.4	877.0	25.45	35.456	
6,307.0	6,114.1	6,075.0	6,074.7	28.0	10.6	-23.06	1,465.3	1,758.4	902.4	876.9	25.48	35.420 CC, ES	
6,400.0	6,206.6	6,137.0	6,136.3	28.2	10.7	-23.33	1,471.9	1,761.1	904.7	878.9	25.82	35.040	
6,500.0	6,306.3	6,200.0	6,198.6	28.4	10.8	-23.63	1,480.8	1,764.6	912.3	886.1	26.17	34.857	
6,600.0	6,406.1	6,269.1	6,266.5	28.6	11.0	-23.98	1,492.8	1,769.4	925.1	898.5	26.54	34.856 SF	
6,700.0	6,506.0	6,333.9	6,329.6	28.7	11.1	-24.33	1,506.4	1,774.8	943.0	916.2	26.89	35.071	
6,800.0	6,606.0	6,423.9	6,416.7	28.8	11.3	-24.79	1,527.2	1,783.1	965.0	937.7	27.30	35.347	
6,904.0	6,710.0	6,524.7	6,514.4	28.9	11.5	33.83	1,550.7	1,792.5	989.7	962.0	27.73	35.695	
6,918.8	6,724.8	6,539.1	6,528.3	28.9	11.6	33.79	1,554.0	1,793.8	993.3	965.6	27.78	35.753	
6,950.0	6,756.0	6,569.1	6,557.3	28.9	11.6	-145.95	1,561.0	1,796.6	1,001.5	973.8	27.74	36.098	
7,000.0	6,805.8	6,616.4	6,603.1	28.9	11.8	-145.49	1,572.0	1,801.0	1,016.9	989.3	27.61	36.831	
7,050.0	6,855.2	6,662.6	6,647.8	28.8	11.9	-144.98	1,582.7	1,805.3	1,035.0	1,007.7	27.38	37.799	
7,100.0	6,904.0	6,707.3	6,691.1	28.8	12.0	-144.40	1,593.1	1,809.4	1,055.9	1,028.8	27.07	39.012	
7,150.0	6,952.0	6,750.4	6,732.9	28.7	12.1	-143.72	1,603.1	1,813.5	1,079.3	1,052.6	26.66	40.478	
7,200.0	6,998.8	6,791.7	6,772.8	28.6	12.2	-142.92	1,612.7	1,817.3	1,105.3	1,079.1	26.19	42.209	
7,250.0	7,044.3	6,830.9	6,810.8	28.5	12.4	-141.97	1,621.9	1,820.9	1,133.7	1,108.1	25.65	44.207	
7,300.0	7,088.2	6,867.9	6,846.6	28.3	12.5	-140.82	1,630.5	1,824.4	1,164.5	1,139.4	25.06	46.464	
7,350.0	7,130.4	6,902.5	6,880.1	28.2	12.6	-139.42	1,638.5	1,827.6	1,197.5	1,173.1	24.46	48.953	
7,400.0	7,170.6	6,934.5	6,911.1	28.0	12.7	-137.73	1,645.9	1,830.5	1,232.7	1,208.8	23.89	51.603	
7,450.0	7,208.6	6,963.8	6,939.4	27.8	12.7	-135.65	1,652.7	1,833.3	1,269.9	1,246.5	23.39	54.294	
7,500.0	7,244.3	6,990.1	6,964.9	27.7	12.8	-133.09	1,658.9	1,835.7	1,308.9	1,285.8	23.03	56.831	
7,550.0	7,277.4	7,013.5	6,987.6	27.5	12.9	-129.94	1,664.3	1,837.9	1,349.5	1,326.6	22.89	58.946	
7,600.0	7,307.8	7,033.8	7,007.2	27.3	13.0	-126.04	1,669.0	1,839.8	1,391.6	1,368.6	23.06	60.354	
7,650.0	7,335.4	7,050.8	7,023.6	27.2	13.0	-121.21	1,673.0	1,841.3	1,435.1	1,411.5	23.58	60.864	
7,700.0	7,360.0	7,064.5	7,036.9	27.0	13.0	-115.27	1,676.2	1,842.6	1,479.6	1,455.1	24.45	60.519	
7,750.0	7,381.6	7,074.9	7,047.0	26.9	13.1	-108.05	1,678.6	1,843.6	1,524.9	1,499.4	25.55	59.676	
7,800.0	7,399.9	7,081.8	7,053.7	26.8	13.1	-99.50	1,680.2	1,844.2	1,571.0	1,544.3	26.65	58.951	
7,850.0	7,414.9	7,085.3	7,057.0	26.7	13.1	-89.81	1,681.0	1,844.5	1,617.4	1,590.1	27.39	59.056	
7,900.0	7,426.6	7,085.3	7,057.0	26.6	13.1	-79.48	1,681.0	1,844.5	1,664.1	1,636.6	27.47	60.583	
7,950.0	7,434.9	7,081.8	7,053.7	26.5	13.1	-69.24	1,680.2	1,844.2	1,710.7	1,683.9	26.82	63.795	
8,000.0	7,439.7	7,074.9	7,047.0	26.5	13.1	-59.76	1,678.6	1,843.6	1,757.1	1,731.4	25.66	68.475	
8,043.8	7,441.0	7,066.0	7,038.4	26.5	13.1	-52.43	1,676.5	1,842.7	1,797.3	1,772.8	24.54	73.233	
8,100.0	7,441.0	7,052.9	7,025.7	26.6	13.0	-51.60	1,673.5	1,841.5	1,848.6	1,824.1	24.50	75.459	
8,200.0	7,441.0	7,029.7	7,003.2	26.7	12.9	-50.16	1,668.1	1,839.4	1,940.4	1,915.9	24.53	79.118	
8,300.0	7,441.0	7,006.4	6,980.7	27.0	12.9	-48.77	1,662.7	1,837.2	2,032.8	2,008.1	24.67	82.394	
8,400.0	7,441.0	6,983.2	6,958.2	27.4	12.8	-47.43	1,657.3	1,835.1	2,125.5	2,100.6	24.91	85.315	
8,500.0	7,441.0	6,959.9	6,935.7	27.8	12.7	-46.13	1,651.8	1,832.9	2,218.7	2,193.4	25.23	87.928	
8,600.0	7,441.0	6,936.7	6,913.2	28.4	12.7	-44.88	1,646.4	1,830.7	2,312.2	2,286.6	25.61	90.284	
8,700.0	7,441.0	6,913.4	6,890.7	29.1	12.6	-43.67	1,641.0	1,828.6	2,405.9	2,379.9	26.03	92.431	
8,800.0	7,441.0	6,890.2	6,868.2	29.9	12.5	-42.51	1,635.6	1,826.4	2,500.0	2,473.5	26.48	94.412	
8,900.0	7,441.0	6,866.9	6,845.7	30.8	12.5	-41.38	1,630.2	1,824.3	2,594.3	2,567.3	26.95	96.264	

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 1G-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 1G-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 3D-2H - 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		
9,000.0	7,441.0	6,843.7	6,823.1	31.7	12.4	-40.30	1,624.8	1,822.1	2,688.8	2,661.4	27.43	98.019		
9,100.0	7,441.0	6,820.4	6,800.6	32.7	12.3	-39.25	1,619.4	1,819.9	2,783.5	2,755.6	27.92	99.704		
9,200.0	7,441.0	6,797.2	6,778.1	33.8	12.3	-38.24	1,614.0	1,817.8	2,878.3	2,849.9	28.40	101.339		
9,300.0	7,441.0	6,773.9	6,755.6	34.9	12.2	-37.27	1,608.6	1,815.6	2,973.4	2,944.5	28.89	102.935		
9,400.0	7,441.0	6,750.7	6,733.1	36.1	12.1	-36.33	1,603.2	1,813.5	3,068.5	3,039.2	29.36	104.509		
9,500.0	7,441.0	6,727.4	6,710.6	37.3	12.1	-35.43	1,597.8	1,811.3	3,163.8	3,134.0	29.83	106.070		
9,600.0	7,441.0	6,704.2	6,688.1	38.6	12.0	-34.55	1,592.4	1,809.2	3,259.2	3,228.9	30.28	107.626		
9,700.0	7,441.0	6,680.9	6,665.6	39.9	11.9	-33.71	1,587.0	1,807.0	3,354.7	3,324.0	30.73	109.180		
9,800.0	7,441.0	6,657.7	6,643.1	41.2	11.9	-32.90	1,581.6	1,804.8	3,450.3	3,419.2	31.16	110.737		
9,900.0	7,441.0	6,634.4	6,620.6	42.6	11.8	-32.11	1,576.2	1,802.7	3,546.0	3,514.4	31.58	112.302		
10,000.0	7,441.0	6,611.2	6,598.1	44.0	11.8	-31.35	1,570.8	1,800.5	3,641.8	3,609.8	31.98	113.877		
10,100.0	7,441.0	6,587.9	6,575.5	45.4	11.7	-30.62	1,565.4	1,798.4	3,737.6	3,705.3	32.37	115.462		
10,200.0	7,441.0	6,564.7	6,553.0	46.9	11.6	-29.91	1,560.0	1,796.2	3,833.6	3,800.8	32.75	117.058		
10,300.0	7,441.0	6,541.5	6,530.5	48.4	11.6	-29.23	1,554.6	1,794.0	3,929.6	3,896.5	33.11	118.667		
10,400.0	7,441.0	6,518.2	6,508.0	49.8	11.5	-28.57	1,549.1	1,791.9	4,025.6	3,992.2	33.47	120.291		
10,500.0	7,441.0	6,495.0	6,485.5	51.3	11.5	-27.93	1,543.7	1,789.7	4,121.7	4,087.9	33.80	121.928		
10,600.0	7,441.0	6,471.7	6,463.0	52.9	11.4	-27.31	1,538.3	1,787.6	4,217.9	4,183.8	34.13	123.577		
10,700.0	7,441.0	6,448.5	6,440.5	54.4	11.4	-26.71	1,532.9	1,785.4	4,314.1	4,279.7	34.45	125.241		
10,800.0	7,441.0	6,425.2	6,418.0	55.9	11.3	-26.13	1,527.5	1,783.3	4,410.4	4,375.6	34.75	126.918		
10,900.0	7,441.0	6,402.0	6,395.5	57.5	11.2	-25.57	1,522.1	1,781.1	4,506.7	4,471.6	35.04	128.609		
11,000.0	7,441.0	6,378.7	6,373.0	59.1	11.2	-25.03	1,516.7	1,778.9	4,603.0	4,567.7	35.32	130.312		
11,100.0	7,441.0	6,355.5	6,350.5	60.7	11.1	-24.50	1,511.3	1,776.8	4,699.4	4,663.8	35.59	132.028		
11,200.0	7,441.0	6,348.1	6,343.4	62.2	11.1	-24.34	1,509.6	1,776.1	4,795.8	4,759.7	36.15	132.657		
11,300.0	7,441.0	6,348.1	6,343.4	63.8	11.1	-24.34	1,509.6	1,776.1	4,892.4	4,855.5	36.85	132.775		
11,400.0	7,441.0	6,348.1	6,343.4	65.4	11.1	-24.34	1,509.6	1,776.1	4,989.1	4,951.6	37.55	132.883		
11,500.0	7,441.0	6,325.4	6,321.3	67.1	11.1	-23.85	1,504.5	1,774.0	5,085.8	5,048.0	37.79	134.595		
11,600.0	7,441.0	6,319.6	6,315.7	68.7	11.1	-23.73	1,503.2	1,773.5	5,182.6	5,144.3	38.36	135.114		
11,700.0	7,441.0	6,300.0	6,296.6	70.3	11.0	-23.32	1,499.0	1,771.9	5,279.6	5,241.0	38.64	136.620		
11,800.0	7,441.0	6,300.0	6,296.6	71.9	11.0	-23.32	1,499.0	1,771.9	5,376.6	5,337.3	39.32	136.729		
11,900.0	7,441.0	6,300.0	6,296.6	73.6	11.0	-23.32	1,499.0	1,771.9	5,473.7	5,433.7	40.00	136.832		
12,000.0	7,441.0	6,300.0	6,296.6	75.2	11.0	-23.32	1,499.0	1,771.9	5,570.9	5,530.2	40.69	136.928		
12,100.0	7,441.0	6,300.0	6,296.6	76.9	11.0	-23.32	1,499.0	1,771.9	5,668.2	5,626.8	41.37	137.018		
12,135.7	7,441.0	6,300.0	6,296.6	77.5	11.0	-23.32	1,499.0	1,771.9	5,702.9	5,661.3	41.61	137.049		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3D-2H - Hz - Plan #2														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	47.0	47.0	0.0	0.1	50.30	1,457.2	1,755.2	2,281.3						
100.0	100.0	147.0	147.0	0.2	0.2	50.30	1,457.2	1,755.2	2,281.3	2,280.9	0.39	5,914.376			
200.0	200.0	247.0	247.0	0.3	0.4	50.30	1,457.2	1,755.2	2,281.3	2,280.5	0.73	3,104.698			
300.0	300.0	347.0	347.0	0.5	0.6	-8.79	1,457.2	1,755.2	2,280.4	2,279.3	1.08	2,104.162			
400.0	400.0	447.0	447.0	0.7	0.8	-8.80	1,457.2	1,755.2	2,277.8	2,276.4	1.43	1,590.076			
500.0	499.9	546.9	546.9	0.9	0.9	-8.82	1,457.2	1,755.2	2,273.5	2,271.7	1.78	1,276.542			
600.0	599.7	646.7	646.7	1.1	1.1	-8.86	1,457.2	1,755.2	2,267.5	2,265.4	2.13	1,064.997			
700.0	699.4	746.4	746.4	1.3	1.3	-8.90	1,457.2	1,755.2	2,259.7	2,257.3	2.48	912.370			
800.0	798.9	845.9	845.9	1.5	1.5	-8.95	1,457.2	1,755.2	2,250.3	2,247.4	2.82	796.848			
900.0	898.3	945.3	945.3	1.8	1.6	-9.01	1,457.2	1,755.2	2,239.1	2,235.9	3.17	706.199			
1,000.0	997.4	1,044.4	1,044.4	2.0	1.8	-9.09	1,457.2	1,755.2	2,226.2	2,222.7	3.52	633.032			
1,100.0	1,096.3	1,143.3	1,143.3	2.3	2.0	-9.17	1,457.2	1,755.2	2,211.6	2,207.7	3.86	572.618			
1,200.0	1,194.9	1,223.8	1,223.8	2.7	2.1	-9.25	1,457.3	1,755.3	2,195.5	2,191.3	4.18	525.731			
1,300.0	1,293.3	1,300.0	1,300.0	3.0	2.2	-9.35	1,458.5	1,756.4	2,179.4	2,174.9	4.48	486.215			
1,400.0	1,391.2	1,336.4	1,336.3	3.4	2.3	-9.41	1,459.7	1,757.4	2,163.2	2,158.5	4.72	458.232			
1,500.0	1,488.9	1,400.0	1,399.8	3.8	2.4	-9.51	1,462.5	1,759.8	2,147.5	2,142.5	5.01	428.908			
1,600.0	1,586.1	1,450.0	1,449.7	4.2	2.5	-9.61	1,465.4	1,762.4	2,131.9	2,126.7	5.27	404.491			
1,700.0	1,682.9	1,547.9	1,547.2	4.7	2.7	-9.78	1,471.8	1,768.1	2,115.7	2,110.1	5.62	376.475			
1,800.0	1,779.3	1,827.3	1,826.3	5.2	3.2	-10.22	1,480.0	1,775.5	2,092.5	2,086.2	6.28	332.940			
1,900.0	1,875.2	1,923.2	1,922.2	5.7	3.4	-10.41	1,480.0	1,775.5	2,064.5	2,057.8	6.63	311.358			
2,000.0	1,970.8	2,018.8	2,017.8	6.3	3.5	-10.56	1,480.0	1,775.5	2,035.7	2,028.7	6.99	291.138			
2,100.0	2,066.4	2,114.4	2,113.4	6.8	3.7	-10.72	1,480.0	1,775.5	2,006.9	1,999.6	7.36	272.845			
2,200.0	2,162.1	2,210.1	2,209.1	7.3	3.9	-10.87	1,480.0	1,775.5	1,978.1	1,970.4	7.72	256.218			
2,300.0	2,257.7	2,305.7	2,304.7	7.9	4.0	-11.03	1,480.0	1,775.5	1,949.4	1,941.3	8.09	241.041			
2,400.0	2,353.3	2,401.3	2,400.3	8.4	4.2	-11.20	1,480.0	1,775.5	1,920.7	1,912.2	8.46	227.132			
2,500.0	2,448.9	2,497.0	2,495.9	9.0	4.4	-11.37	1,480.0	1,775.5	1,891.9	1,883.1	8.83	214.340			
2,600.0	2,544.6	2,592.6	2,591.6	9.5	4.5	-11.55	1,480.0	1,775.5	1,863.2	1,854.0	9.20	202.535			
2,700.0	2,640.2	2,688.2	2,687.2	10.1	4.7	-11.73	1,480.0	1,775.5	1,834.6	1,825.0	9.57	191.609			
2,800.0	2,735.8	2,783.9	2,782.8	10.6	4.9	-11.92	1,480.0	1,775.5	1,805.9	1,795.9	9.95	181.466			
2,900.0	2,831.5	2,879.5	2,878.5	11.2	5.0	-12.12	1,480.0	1,775.5	1,777.2	1,766.9	10.33	172.026			
3,000.0	2,927.1	2,975.1	2,974.1	11.7	5.2	-12.32	1,480.0	1,775.5	1,748.6	1,737.9	10.71	163.219			
3,100.0	3,022.7	3,070.7	3,069.7	12.2	5.4	-12.52	1,480.0	1,775.5	1,720.0	1,708.9	11.10	154.982			
3,200.0	3,118.4	3,166.4	3,165.4	12.8	5.5	-12.74	1,480.0	1,775.5	1,691.4	1,679.9	11.49	147.263			
3,300.0	3,214.0	3,262.0	3,261.0	13.3	5.7	-12.96	1,480.0	1,775.5	1,662.8	1,651.0	11.88	140.014			
3,400.0	3,309.6	3,357.6	3,356.6	13.9	5.9	-13.19	1,480.0	1,775.5	1,634.3	1,622.0	12.27	133.193			
3,500.0	3,405.3	3,453.3	3,452.3	14.4	6.0	-13.43	1,480.0	1,775.5	1,605.8	1,593.1	12.67	126.764			
3,600.0	3,500.9	3,548.9	3,547.9	15.0	6.2	-13.67	1,480.0	1,775.5	1,577.3	1,564.2	13.07	120.695			
3,700.0	3,596.5	3,644.5	3,643.5	15.5	6.4	-13.93	1,480.0	1,775.5	1,548.8	1,535.4	13.47	114.955			
3,800.0	3,692.1	3,740.2	3,739.1	16.1	6.5	-14.19	1,480.0	1,775.5	1,520.4	1,506.5	13.88	109.519			
3,900.0	3,787.8	3,835.8	3,834.8	16.7	6.7	-14.47	1,480.0	1,775.5	1,492.0	1,477.7	14.30	104.364			
4,000.0	3,883.4	3,931.4	3,930.4	17.2	6.9	-14.75	1,480.0	1,775.5	1,463.6	1,448.9	14.71	99.469			
4,100.0	3,979.0	4,027.1	4,026.0	17.8	7.0	-15.05	1,480.0	1,775.5	1,435.3	1,420.2	15.14	94.814			
4,200.0	4,074.7	4,122.7	4,121.7	18.3	7.2	-15.36	1,480.0	1,775.5	1,407.0	1,391.4	15.57	90.383			
4,300.0	4,170.3	4,218.3	4,217.3	18.9	7.4	-15.68	1,480.0	1,775.5	1,378.7	1,362.7	16.00	86.160			
4,400.0	4,265.9	4,313.9	4,312.9	19.4	7.5	-16.01	1,480.0	1,775.5	1,350.5	1,334.1	16.44	82.131			
4,500.0	4,361.6	4,409.6	4,408.6	20.0	7.7	-16.36	1,480.0	1,775.5	1,322.4	1,305.5	16.89	78.283			
4,600.0	4,457.2	4,505.2	4,504.2	20.5	7.9	-16.72	1,480.0	1,775.5	1,294.2	1,276.9	17.35	74.605			
4,700.0	4,552.8	4,600.8	4,599.8	21.1	8.0	-17.10	1,480.0	1,775.5	1,266.2	1,248.3	17.81	71.087			
4,800.0	4,648.5	4,696.5	4,695.5	21.6	8.2	-17.50	1,480.0	1,775.5	1,238.1	1,219.8	18.28	67.718			
4,900.0	4,744.1	4,792.1	4,791.1	22.2	8.4	-17.91	1,480.0	1,775.5	1,210.2	1,191.4	18.77	64.489			
5,000.0	4,839.7	4,887.7	4,886.7	22.7	8.5	-18.35	1,480.0	1,775.5	1,182.3	1,163.0	19.26	61.393			
5,100.0	4,935.3	4,983.4	4,982.3	23.3	8.7	-18.80	1,480.0	1,775.5	1,154.4	1,134.7	19.76	58.423			

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 1G-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 1G-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 3D-2H - Hz - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)			
5,204.0	5,034.8	5,082.8	5,081.8	23.9	8.9	-19.30	1,480.0	1,775.5	1,125.6	1,105.3	20.30	55.459	
5,300.0	5,126.8	5,174.8	5,173.8	24.4	9.0	-19.67	1,480.0	1,775.5	1,099.7	1,078.9	20.80	52.873	
5,400.0	5,223.2	5,271.2	5,270.2	24.9	9.2	-20.06	1,480.0	1,775.5	1,074.4	1,053.1	21.32	50.394	
5,500.0	5,320.0	5,368.0	5,367.0	25.3	9.4	-20.45	1,480.0	1,775.5	1,050.8	1,028.9	21.84	48.123	
5,600.0	5,417.2	5,465.2	5,464.2	25.8	9.5	-20.82	1,480.0	1,775.5	1,028.8	1,006.4	22.34	46.044	
5,700.0	5,514.8	5,562.8	5,561.8	26.2	9.7	-21.18	1,480.0	1,775.5	1,008.4	985.6	22.84	44.147	
5,800.0	5,612.8	5,660.8	5,659.8	26.5	9.9	-21.53	1,480.0	1,775.5	989.8	966.4	23.33	42.421	
5,900.0	5,711.1	5,759.1	5,758.1	26.9	10.0	-21.86	1,480.0	1,775.5	972.7	948.9	23.81	40.854	
6,000.0	5,809.7	5,857.7	5,856.7	27.2	10.2	-22.17	1,480.0	1,775.5	957.3	933.1	24.27	39.437	
6,100.0	5,908.6	5,956.6	5,955.6	27.5	10.4	-22.46	1,480.0	1,775.5	943.6	918.8	24.72	38.163	
6,200.0	6,007.7	6,055.7	6,054.7	27.8	10.6	-22.72	1,480.0	1,775.5	931.4	906.3	25.16	37.023	
6,300.0	6,107.1	6,155.1	6,154.1	28.0	10.7	-22.95	1,480.0	1,775.5	920.9	895.4	25.58	36.009	
6,400.0	6,206.6	6,254.6	6,253.6	28.2	10.9	-23.15	1,480.0	1,775.5	912.0	886.1	25.97	35.115	
6,500.0	6,306.3	6,354.3	6,353.3	28.4	11.1	-23.32	1,480.0	1,775.5	904.8	878.4	26.35	34.334	
6,600.0	6,406.1	6,454.1	6,453.1	28.6	11.3	-23.45	1,480.0	1,775.5	899.1	872.4	26.71	33.661	
6,700.0	6,506.0	6,554.0	6,553.0	28.7	11.4	-23.55	1,480.0	1,775.5	895.0	868.0	27.05	33.091	
6,800.0	6,606.0	6,654.0	6,653.0	28.8	11.6	-23.61	1,480.0	1,775.5	892.6	865.2	27.36	32.619	
6,904.0	6,710.0	6,758.0	6,757.0	28.9	11.8	35.45	1,480.0	1,775.5	891.7	864.0	27.67	32.226	
6,918.8	6,724.8	6,772.8	6,771.8	28.9	11.8	35.45	1,480.0	1,775.5	891.7	864.0	27.72	32.174 CC, ES	
6,950.0	6,756.0	6,804.0	6,803.0	28.9	11.9	-144.55	1,480.0	1,775.5	892.3	864.5	27.76	32.147 SF	
7,000.0	6,805.8	6,853.8	6,852.8	28.9	12.0	-144.55	1,480.0	1,775.5	895.5	867.7	27.76	32.258	
7,050.0	6,855.2	6,903.2	6,902.2	28.8	12.0	-144.54	1,480.0	1,775.5	901.5	873.8	27.68	32.567	
7,100.0	6,904.0	6,952.1	6,951.0	28.8	12.1	-144.51	1,480.0	1,775.5	910.4	882.8	27.52	33.081	
7,150.0	6,952.0	7,000.0	6,999.0	28.7	12.2	-144.46	1,480.0	1,775.5	922.1	894.8	27.28	33.806	
7,200.0	6,998.8	7,025.6	7,024.5	28.6	12.3	-144.06	1,480.0	1,775.5	936.9	910.0	26.84	34.901	
7,250.0	7,044.3	7,050.0	7,049.0	28.5	12.3	-143.48	1,480.5	1,775.9	955.5	929.2	26.32	36.300	
7,300.0	7,088.2	7,062.2	7,061.2	28.3	12.3	-142.48	1,481.1	1,776.4	978.3	952.6	25.67	38.109	
7,350.0	7,130.4	7,075.0	7,073.9	28.2	12.3	-141.20	1,481.9	1,777.2	1,004.8	979.8	24.98	40.219	
7,400.0	7,170.6	7,087.5	7,086.3	28.0	12.4	-139.61	1,483.0	1,778.2	1,034.8	1,010.5	24.30	42.590	
7,450.0	7,208.6	7,100.0	7,098.7	27.8	12.4	-137.65	1,484.4	1,779.3	1,067.9	1,044.2	23.66	45.128	
7,500.0	7,244.3	7,100.0	7,098.7	27.7	12.4	-134.78	1,484.4	1,779.3	1,103.8	1,080.7	23.12	47.748	
7,550.0	7,277.4	7,125.0	7,123.3	27.5	12.4	-132.35	1,487.7	1,782.3	1,142.1	1,119.3	22.82	50.045	
7,600.0	7,307.8	7,125.0	7,123.3	27.3	12.4	-128.19	1,487.7	1,782.3	1,182.4	1,159.6	22.79	51.886	
7,650.0	7,335.4	7,125.0	7,123.3	27.2	12.4	-123.08	1,487.7	1,782.3	1,224.6	1,201.4	23.15	52.896	
7,700.0	7,360.0	7,134.2	7,132.3	27.0	12.5	-117.55	1,489.2	1,783.7	1,268.1	1,244.3	23.83	53.220	
7,750.0	7,381.6	7,137.9	7,135.8	26.9	12.5	-110.53	1,489.9	1,784.2	1,312.9	1,288.1	24.81	52.918	
7,800.0	7,399.9	7,140.5	7,138.4	26.8	12.5	-102.27	1,490.3	1,784.6	1,358.4	1,332.6	25.85	52.546	
7,850.0	7,414.9	7,150.0	7,147.6	26.7	12.5	-93.77	1,492.1	1,786.2	1,404.7	1,378.1	26.60	52.798	
7,900.0	7,426.6	7,150.0	7,147.6	26.6	12.5	-83.75	1,492.1	1,786.2	1,451.1	1,424.2	26.91	53.929	
7,950.0	7,434.9	7,150.0	7,147.6	26.5	12.5	-73.78	1,492.1	1,786.2	1,497.7	1,471.1	26.56	56.378	
8,000.0	7,439.7	7,150.0	7,147.6	26.5	12.5	-64.47	1,492.1	1,786.2	1,544.1	1,518.3	25.73	60.018	
8,043.8	7,441.0	7,139.9	7,137.7	26.5	12.5	-56.35	1,490.2	1,784.5	1,584.3	1,559.6	24.71	64.117	
8,100.0	7,441.0	7,137.5	7,135.4	26.6	12.5	-56.16	1,489.8	1,784.2	1,636.0	1,611.2	24.80	65.977	
8,200.0	7,441.0	7,125.0	7,123.3	26.7	12.4	-55.16	1,487.7	1,782.3	1,728.7	1,703.7	24.96	69.261	
8,300.0	7,441.0	7,125.0	7,123.3	27.0	12.4	-55.16	1,487.7	1,782.3	1,822.0	1,796.6	25.42	71.676	
8,400.0	7,441.0	7,125.0	7,123.3	27.4	12.4	-55.16	1,487.7	1,782.3	1,916.0	1,890.0	26.01	73.674	
8,500.0	7,441.0	7,125.0	7,123.3	27.8	12.4	-55.16	1,487.7	1,782.3	2,010.5	1,983.8	26.70	75.291	
8,600.0	7,441.0	7,125.0	7,123.3	28.4	12.4	-55.16	1,487.7	1,782.3	2,105.6	2,078.1	27.50	76.573	
8,700.0	7,441.0	7,125.0	7,123.3	29.1	12.4	-55.16	1,487.7	1,782.3	2,201.1	2,172.7	28.38	77.568	
8,800.0	7,441.0	7,114.3	7,112.8	29.9	12.4	-54.33	1,486.2	1,781.0	2,296.9	2,267.7	29.14	78.817	
8,900.0	7,441.0	7,111.8	7,110.3	30.8	12.4	-54.13	1,485.8	1,780.6	2,393.0	2,362.9	30.09	79.517	
9,000.0	7,441.0	7,100.0	7,098.7	31.7	12.4	-53.23	1,484.4	1,779.3	2,489.6	2,458.6	30.91	80.534	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3D-2H - Hz - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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		
9,100.0	7,441.0	7,100.0	7,098.7	32.7	12.4	-53.23	1,484.4	1,779.3	2,586.2	2,554.2	31.99	80.842		
9,200.0	7,441.0	7,100.0	7,098.7	33.8	12.4	-53.23	1,484.4	1,779.3	2,683.1	2,650.0	33.11	81.046		
9,300.0	7,441.0	7,100.0	7,098.7	34.9	12.4	-53.23	1,484.4	1,779.3	2,780.2	2,746.0	34.25	81.168		
9,400.0	7,441.0	7,100.0	7,098.7	36.1	12.4	-53.23	1,484.4	1,779.3	2,877.6	2,842.1	35.43	81.225		
9,500.0	7,441.0	7,100.0	7,098.7	37.3	12.4	-53.23	1,484.4	1,779.3	2,975.1	2,938.4	36.62	81.231		
9,600.0	7,441.0	7,100.0	7,098.7	38.6	12.4	-53.23	1,484.4	1,779.3	3,072.7	3,034.9	37.84	81.197		
9,700.0	7,441.0	7,100.0	7,098.7	39.9	12.4	-53.23	1,484.4	1,779.3	3,170.5	3,131.4	39.08	81.131		
9,800.0	7,441.0	7,100.0	7,098.7	41.2	12.4	-53.23	1,484.4	1,779.3	3,268.5	3,228.1	40.33	81.042		
9,900.0	7,441.0	7,100.0	7,098.7	42.6	12.4	-53.23	1,484.4	1,779.3	3,366.5	3,324.9	41.60	80.934		
10,000.0	7,441.0	7,100.0	7,098.7	44.0	12.4	-53.23	1,484.4	1,779.3	3,464.7	3,421.8	42.87	80.812		
10,100.0	7,441.0	7,100.0	7,098.7	45.4	12.4	-53.23	1,484.4	1,779.3	3,563.0	3,518.8	44.16	80.680		
10,200.0	7,441.0	7,088.2	7,087.0	46.9	12.4	-52.36	1,483.1	1,778.2	3,661.2	3,616.1	45.05	81.267		
10,300.0	7,441.0	7,087.0	7,085.8	48.4	12.4	-52.27	1,483.0	1,778.1	3,759.6	3,713.3	46.30	81.209		
10,400.0	7,441.0	7,075.0	7,073.9	49.8	12.3	-51.41	1,481.9	1,777.2	3,858.2	3,811.1	47.15	81.827		
10,500.0	7,441.0	7,075.0	7,073.9	51.3	12.3	-51.41	1,481.9	1,777.2	3,956.8	3,908.3	48.44	81.687		
10,600.0	7,441.0	7,075.0	7,073.9	52.9	12.3	-51.41	1,481.9	1,777.2	4,055.4	4,005.7	49.73	81.546		
10,700.0	7,441.0	7,075.0	7,073.9	54.4	12.3	-51.41	1,481.9	1,777.2	4,154.1	4,103.0	51.03	81.405		
10,800.0	7,441.0	7,075.0	7,073.9	55.9	12.3	-51.41	1,481.9	1,777.2	4,252.8	4,200.5	52.33	81.264		
10,900.0	7,441.0	7,075.0	7,073.9	57.5	12.3	-51.41	1,481.9	1,777.2	4,351.6	4,298.0	53.64	81.124		
11,000.0	7,441.0	7,075.0	7,073.9	59.1	12.3	-51.41	1,481.9	1,777.2	4,450.5	4,395.5	54.95	80.985		
11,100.0	7,441.0	7,075.0	7,073.9	60.7	12.3	-51.41	1,481.9	1,777.2	4,549.4	4,493.1	56.27	80.849		
11,200.0	7,441.0	7,075.0	7,073.9	62.2	12.3	-51.41	1,481.9	1,777.2	4,648.3	4,590.7	57.59	80.715		
11,300.0	7,441.0	7,075.0	7,073.9	63.8	12.3	-51.41	1,481.9	1,777.2	4,747.3	4,688.4	58.91	80.583		
11,400.0	7,441.0	7,075.0	7,073.9	65.4	12.3	-51.41	1,481.9	1,777.2	4,846.4	4,786.1	60.24	80.454		
11,500.0	7,441.0	7,075.0	7,073.9	67.1	12.3	-51.41	1,481.9	1,777.2	4,945.4	4,883.9	61.57	80.327		
11,600.0	7,441.0	7,075.0	7,073.9	68.7	12.3	-51.41	1,481.9	1,777.2	5,044.6	4,981.7	62.90	80.203		
11,700.0	7,441.0	7,075.0	7,073.9	70.3	12.3	-51.41	1,481.9	1,777.2	5,143.7	5,079.5	64.23	80.082		
11,800.0	7,441.0	7,075.0	7,073.9	71.9	12.3	-51.41	1,481.9	1,777.2	5,242.9	5,177.3	65.57	79.964		
11,900.0	7,441.0	7,075.0	7,073.9	73.6	12.3	-51.41	1,481.9	1,777.2	5,342.1	5,275.2	66.90	79.849		
12,000.0	7,441.0	7,075.0	7,073.9	75.2	12.3	-51.41	1,481.9	1,777.2	5,441.3	5,373.1	68.24	79.736		
12,100.0	7,441.0	7,075.0	7,073.9	76.9	12.3	-51.41	1,481.9	1,777.2	5,540.6	5,471.0	69.58	79.627		
12,135.7	7,441.0	7,075.0	7,073.9	77.5	12.3	-51.41	1,481.9	1,777.2	5,576.0	5,505.9	70.06	79.588		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3D-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 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	47.0	47.0	0.0	0.1	50.30	1,457.2	1,755.2	2,281.3					
100.0	100.0	147.0	147.0	0.2	0.2	50.30	1,457.2	1,755.2	2,281.3	2,280.9	0.39	5,914.376		
200.0	200.0	247.0	247.0	0.3	0.4	50.30	1,457.2	1,755.2	2,281.3	2,280.5	0.73	3,104.698		
300.0	300.0	347.0	347.0	0.5	0.6	-8.79	1,457.2	1,755.2	2,280.4	2,279.3	1.08	2,104.162		
400.0	400.0	447.0	447.0	0.7	0.8	-8.80	1,457.2	1,755.2	2,277.8	2,276.4	1.43	1,590.076		
500.0	499.9	546.9	546.9	0.9	0.9	-8.82	1,457.2	1,755.2	2,273.5	2,271.7	1.78	1,276.542		
600.0	599.7	646.7	646.7	1.1	1.1	-8.86	1,457.2	1,755.2	2,267.5	2,265.4	2.13	1,064.997		
700.0	699.4	746.4	746.4	1.3	1.3	-8.90	1,457.2	1,755.2	2,259.7	2,257.3	2.48	912.370		
800.0	798.9	845.9	845.9	1.5	1.5	-8.95	1,457.2	1,755.2	2,250.3	2,247.4	2.82	796.848		
900.0	898.3	945.3	945.3	1.8	1.6	-9.01	1,457.2	1,755.2	2,239.1	2,235.9	3.17	706.199		
1,000.0	997.4	1,044.4	1,044.4	2.0	1.8	-9.09	1,457.2	1,755.2	2,226.2	2,222.7	3.52	633.032		
1,100.0	1,096.3	1,143.3	1,143.3	2.3	2.0	-9.17	1,457.2	1,755.2	2,211.6	2,207.7	3.86	572.618		
1,200.0	1,194.9	1,223.8	1,223.8	2.7	2.1	-9.25	1,457.3	1,755.3	2,195.5	2,191.3	4.18	525.731		
1,300.0	1,293.3	1,300.0	1,300.0	3.0	2.2	-9.35	1,458.5	1,756.4	2,179.4	2,174.9	4.48	486.215		
1,400.0	1,391.2	1,336.4	1,336.3	3.4	2.3	-9.41	1,459.7	1,757.4	2,163.2	2,158.5	4.72	458.232		
1,500.0	1,488.9	1,400.0	1,399.8	3.8	2.4	-9.51	1,462.5	1,759.8	2,147.5	2,142.5	5.01	428.908		
1,600.0	1,586.1	1,450.0	1,449.7	4.2	2.5	-9.61	1,465.4	1,762.4	2,131.9	2,126.7	5.27	404.491		
1,700.0	1,682.9	1,547.9	1,547.2	4.7	2.7	-9.78	1,471.8	1,768.1	2,115.7	2,110.1	5.62	376.475		
1,800.0	1,779.3	1,827.3	1,826.3	5.2	3.2	-10.22	1,480.0	1,775.5	2,092.5	2,086.2	6.28	332.940		
1,900.0	1,875.2	1,923.2	1,922.2	5.7	3.4	-10.41	1,480.0	1,775.5	2,064.5	2,057.8	6.63	311.358		
2,000.0	1,970.8	2,018.8	2,017.8	6.3	3.5	-10.56	1,480.0	1,775.5	2,035.7	2,028.7	6.99	291.138		
2,100.0	2,066.4	2,114.4	2,113.4	6.8	3.7	-10.72	1,480.0	1,775.5	2,006.9	1,999.6	7.36	272.845		
2,200.0	2,162.1	2,210.1	2,209.1	7.3	3.9	-10.87	1,480.0	1,775.5	1,978.1	1,970.4	7.72	256.218		
2,300.0	2,257.7	2,305.7	2,304.7	7.9	4.0	-11.03	1,480.0	1,775.5	1,949.4	1,941.3	8.09	241.041		
2,400.0	2,353.3	2,401.3	2,400.3	8.4	4.2	-11.20	1,480.0	1,775.5	1,920.7	1,912.2	8.46	227.132		
2,500.0	2,448.9	2,497.0	2,495.9	9.0	4.4	-11.37	1,480.0	1,775.5	1,891.9	1,883.1	8.83	214.340		
2,600.0	2,544.6	2,592.6	2,591.6	9.5	4.5	-11.55	1,480.0	1,775.5	1,863.2	1,854.0	9.20	202.535		
2,700.0	2,640.2	2,688.2	2,687.2	10.1	4.7	-11.73	1,480.0	1,775.5	1,834.6	1,825.0	9.57	191.609		
2,800.0	2,735.8	2,783.9	2,782.8	10.6	4.9	-11.92	1,480.0	1,775.5	1,805.9	1,795.9	9.95	181.466		
2,900.0	2,831.5	2,879.5	2,878.5	11.2	5.0	-12.12	1,480.0	1,775.5	1,777.2	1,766.9	10.33	172.026		
3,000.0	2,927.1	2,975.1	2,974.1	11.7	5.2	-12.32	1,480.0	1,775.5	1,748.6	1,737.9	10.71	163.219		
3,100.0	3,022.7	3,070.7	3,069.7	12.2	5.4	-12.52	1,480.0	1,775.5	1,720.0	1,708.9	11.10	154.982		
3,200.0	3,118.4	3,166.4	3,165.4	12.8	5.5	-12.74	1,480.0	1,775.5	1,691.4	1,679.9	11.49	147.263		
3,300.0	3,214.0	3,262.0	3,261.0	13.3	5.7	-12.96	1,480.0	1,775.5	1,662.8	1,651.0	11.88	140.014		
3,400.0	3,309.6	3,357.6	3,356.6	13.9	5.9	-13.19	1,480.0	1,775.5	1,634.3	1,622.0	12.27	133.193		
3,500.0	3,405.3	3,453.3	3,452.3	14.4	6.0	-13.43	1,480.0	1,775.5	1,605.8	1,593.1	12.67	126.764		
3,600.0	3,500.9	3,548.9	3,547.9	15.0	6.2	-13.67	1,480.0	1,775.5	1,577.3	1,564.2	13.07	120.695		
3,700.0	3,596.5	3,644.5	3,643.5	15.5	6.4	-13.93	1,480.0	1,775.5	1,548.8	1,535.4	13.47	114.955		
3,800.0	3,692.1	3,740.2	3,739.1	16.1	6.5	-14.19	1,480.0	1,775.5	1,520.4	1,506.5	13.88	109.519		
3,900.0	3,787.8	3,835.8	3,834.8	16.7	6.7	-14.47	1,480.0	1,775.5	1,492.0	1,477.7	14.30	104.364		
4,000.0	3,883.4	3,931.4	3,930.4	17.2	6.9	-14.75	1,480.0	1,775.5	1,463.6	1,448.9	14.71	99.469		
4,100.0	3,979.0	4,027.1	4,026.0	17.8	7.0	-15.05	1,480.0	1,775.5	1,435.3	1,420.2	15.14	94.814		
4,200.0	4,074.7	4,122.7	4,121.7	18.3	7.2	-15.36	1,480.0	1,775.5	1,407.0	1,391.4	15.57	90.383		
4,300.0	4,170.3	4,218.3	4,217.3	18.9	7.4	-15.68	1,480.0	1,775.5	1,378.7	1,362.7	16.00	86.160		
4,400.0	4,265.9	4,313.9	4,312.9	19.4	7.5	-16.01	1,480.0	1,775.5	1,350.5	1,334.1	16.44	82.131		
4,500.0	4,361.6	4,409.6	4,408.6	20.0	7.7	-16.36	1,480.0	1,775.5	1,322.4	1,305.5	16.89	78.283		
4,600.0	4,457.2	4,505.2	4,504.2	20.5	7.9	-16.72	1,480.0	1,775.5	1,294.2	1,276.9	17.35	74.605		
4,700.0	4,552.8	4,600.8	4,599.8	21.1	8.0	-17.10	1,480.0	1,775.5	1,266.2	1,248.3	17.81	71.087		
4,800.0	4,648.5	4,696.5	4,695.5	21.6	8.2	-17.50	1,480.0	1,775.5	1,238.1	1,219.8	18.28	67.718		
4,900.0	4,744.1	4,792.1	4,791.1	22.2	8.4	-17.91	1,480.0	1,775.5	1,210.2	1,191.4	18.77	64.489		
5,000.0	4,839.7	4,887.7	4,886.7	22.7	8.5	-18.35	1,480.0	1,775.5	1,182.3	1,163.0	19.26	61.393		
5,100.0	4,935.3	4,983.4	4,982.3	23.3	8.7	-18.80	1,480.0	1,775.5	1,154.4	1,134.7	19.76	58.423		

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 1G-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 1G-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 3D-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		
5,204.0	5,034.8	5,082.8	5,081.8	23.9	8.9	-19.30	1,480.0	1,775.5	1,125.6	1,105.3	20.30	55.459		
5,300.0	5,126.8	5,174.8	5,173.8	24.4	9.0	-19.67	1,480.0	1,775.5	1,099.7	1,078.9	20.80	52.873		
5,400.0	5,223.2	5,271.2	5,270.2	24.9	9.2	-20.06	1,480.0	1,775.5	1,074.4	1,053.1	21.32	50.394		
5,500.0	5,320.0	5,368.0	5,367.0	25.3	9.4	-20.45	1,480.0	1,775.5	1,050.8	1,028.9	21.84	48.123		
5,600.0	5,417.2	5,465.2	5,464.2	25.8	9.5	-20.82	1,480.0	1,775.5	1,028.8	1,006.4	22.34	46.044		
5,700.0	5,514.8	5,562.8	5,561.8	26.2	9.7	-21.18	1,480.0	1,775.5	1,008.4	985.6	22.84	44.147		
5,800.0	5,612.8	5,660.8	5,659.8	26.5	9.9	-21.53	1,480.0	1,775.5	989.8	966.4	23.33	42.421		
5,900.0	5,711.1	5,759.1	5,758.1	26.9	10.0	-21.86	1,480.0	1,775.5	972.7	948.9	23.81	40.854		
6,000.0	5,809.7	5,857.7	5,856.7	27.2	10.2	-22.17	1,480.0	1,775.5	957.3	933.1	24.27	39.437		
6,100.0	5,908.6	5,956.6	5,955.6	27.5	10.4	-22.46	1,480.0	1,775.5	943.6	918.8	24.72	38.163		
6,200.0	6,007.7	6,055.7	6,054.7	27.8	10.6	-22.72	1,480.0	1,775.5	931.4	906.3	25.16	37.023		
6,300.0	6,107.1	6,155.1	6,154.1	28.0	10.7	-22.95	1,480.0	1,775.5	920.9	895.4	25.58	36.009		
6,400.0	6,206.6	6,254.6	6,253.6	28.2	10.9	-23.15	1,480.0	1,775.5	912.0	886.1	25.97	35.115		
6,500.0	6,306.3	6,354.3	6,353.3	28.4	11.1	-23.32	1,480.0	1,775.5	904.8	878.4	26.35	34.334		
6,600.0	6,406.1	6,454.1	6,453.1	28.6	11.3	-23.45	1,480.0	1,775.5	899.1	872.4	26.71	33.661		
6,700.0	6,506.0	6,554.0	6,553.0	28.7	11.4	-23.55	1,480.0	1,775.5	895.0	868.0	27.05	33.091		
6,800.0	6,606.0	6,654.0	6,653.0	28.8	11.6	-23.61	1,480.0	1,775.5	892.6	865.2	27.36	32.619		
6,904.0	6,710.0	6,758.0	6,757.0	28.9	11.8	35.45	1,480.0	1,775.5	891.7	864.0	27.67	32.226		
6,918.8	6,724.8	6,772.8	6,771.8	28.9	11.8	35.45	1,480.0	1,775.5	891.7	864.0	27.72	32.174 CC, ES		
6,950.0	6,756.0	6,804.0	6,803.0	28.9	11.9	-144.55	1,480.0	1,775.5	892.3	864.5	27.76	32.147 SF		
7,000.0	6,805.8	6,853.8	6,852.8	28.9	12.0	-144.55	1,480.0	1,775.5	895.5	867.7	27.76	32.258		
7,050.0	6,855.2	6,903.2	6,902.2	28.8	12.0	-144.54	1,480.0	1,775.5	901.5	873.8	27.68	32.567		
7,100.0	6,904.0	6,952.1	6,951.0	28.8	12.1	-144.51	1,480.0	1,775.5	910.4	882.8	27.52	33.081		
7,150.0	6,952.0	7,000.0	6,999.0	28.7	12.2	-144.46	1,480.0	1,775.5	922.1	894.8	27.28	33.806		
7,200.0	6,998.8	7,025.6	7,024.5	28.6	12.3	-144.06	1,480.0	1,775.5	936.9	910.0	26.84	34.901		
7,250.0	7,044.3	7,050.0	7,049.0	28.5	12.3	-143.48	1,480.5	1,775.9	955.5	929.2	26.32	36.300		
7,300.0	7,088.2	7,062.2	7,061.2	28.3	12.3	-142.48	1,481.1	1,776.4	978.3	952.6	25.67	38.109		
7,350.0	7,130.4	7,075.0	7,073.9	28.2	12.3	-141.20	1,481.9	1,777.2	1,004.8	979.8	24.98	40.219		
7,400.0	7,170.6	7,087.5	7,086.3	28.0	12.4	-139.61	1,483.0	1,778.2	1,034.8	1,010.5	24.30	42.590		
7,450.0	7,208.6	7,100.0	7,098.7	27.8	12.4	-137.65	1,484.4	1,779.3	1,067.9	1,044.2	23.66	45.128		
7,500.0	7,244.3	7,100.0	7,098.7	27.7	12.4	-134.78	1,484.4	1,779.3	1,103.8	1,080.7	23.12	47.748		
7,550.0	7,277.4	7,125.0	7,123.3	27.5	12.4	-132.35	1,487.7	1,782.3	1,142.1	1,119.3	22.82	50.045		
7,600.0	7,307.8	7,125.0	7,123.3	27.3	12.4	-128.19	1,487.7	1,782.3	1,182.4	1,159.6	22.79	51.886		
7,650.0	7,335.4	7,125.0	7,123.3	27.2	12.4	-123.08	1,487.7	1,782.3	1,224.6	1,201.4	23.15	52.896		
7,700.0	7,360.0	7,134.2	7,132.3	27.0	12.5	-117.55	1,489.2	1,783.7	1,268.1	1,244.3	23.83	53.220		
7,750.0	7,381.6	7,137.9	7,135.8	26.9	12.5	-110.53	1,489.9	1,784.2	1,312.9	1,288.1	24.81	52.918		
7,800.0	7,399.9	7,140.5	7,138.4	26.8	12.5	-102.27	1,490.3	1,784.6	1,358.4	1,332.6	25.85	52.546		
7,850.0	7,414.9	7,150.0	7,147.6	26.7	12.5	-93.77	1,492.1	1,786.2	1,404.7	1,378.1	26.60	52.798		
7,900.0	7,426.6	7,150.0	7,147.6	26.6	12.5	-83.75	1,492.1	1,786.2	1,451.1	1,424.2	26.91	53.929		
7,950.0	7,434.9	7,150.0	7,147.6	26.5	12.5	-73.78	1,492.1	1,786.2	1,497.7	1,471.1	26.56	56.378		
8,000.0	7,439.7	7,150.0	7,147.6	26.5	12.5	-64.47	1,492.1	1,786.2	1,544.1	1,518.3	25.73	60.018		
8,043.8	7,441.0	7,139.9	7,137.7	26.5	12.5	-56.35	1,490.2	1,784.5	1,584.3	1,559.6	24.71	64.117		
8,100.0	7,441.0	7,137.5	7,135.4	26.6	12.5	-56.16	1,489.8	1,784.2	1,636.0	1,611.2	24.80	65.977		
8,200.0	7,441.0	7,125.0	7,123.3	26.7	12.4	-55.16	1,487.7	1,782.3	1,728.7	1,703.7	24.96	69.261		
8,300.0	7,441.0	7,125.0	7,123.3	27.0	12.4	-55.16	1,487.7	1,782.3	1,822.0	1,796.6	25.42	71.676		
8,400.0	7,441.0	7,125.0	7,123.3	27.4	12.4	-55.16	1,487.7	1,782.3	1,916.0	1,890.0	26.01	73.674		
8,500.0	7,441.0	7,125.0	7,123.3	27.8	12.4	-55.16	1,487.7	1,782.3	2,010.5	1,983.8	26.70	75.291		
8,600.0	7,441.0	7,125.0	7,123.3	28.4	12.4	-55.16	1,487.7	1,782.3	2,105.6	2,078.1	27.50	76.573		
8,700.0	7,441.0	7,125.0	7,123.3	29.1	12.4	-55.16	1,487.7	1,782.3	2,201.1	2,172.7	28.38	77.568		
8,800.0	7,441.0	7,114.3	7,112.8	29.9	12.4	-54.33	1,486.2	1,781.0	2,296.9	2,267.7	29.14	78.817		
8,900.0	7,441.0	7,111.8	7,110.3	30.8	12.4	-54.13	1,485.8	1,780.6	2,393.0	2,362.9	30.09	79.517		
9,000.0	7,441.0	7,100.0	7,098.7	31.7	12.4	-53.23	1,484.4	1,779.3	2,489.6	2,458.6	30.91	80.534		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 3D-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 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)				
9,100.0	7,441.0	7,100.0	7,098.7	32.7	12.4	-53.23	1,484.4	1,779.3	2,586.2	2,554.2	31.99	80.842		
9,200.0	7,441.0	7,100.0	7,098.7	33.8	12.4	-53.23	1,484.4	1,779.3	2,683.1	2,650.0	33.11	81.046		
9,300.0	7,441.0	7,100.0	7,098.7	34.9	12.4	-53.23	1,484.4	1,779.3	2,780.2	2,746.0	34.25	81.168		
9,400.0	7,441.0	7,100.0	7,098.7	36.1	12.4	-53.23	1,484.4	1,779.3	2,877.6	2,842.1	35.43	81.225		
9,500.0	7,441.0	7,100.0	7,098.7	37.3	12.4	-53.23	1,484.4	1,779.3	2,975.1	2,938.4	36.62	81.231		
9,600.0	7,441.0	7,100.0	7,098.7	38.6	12.4	-53.23	1,484.4	1,779.3	3,072.7	3,034.9	37.84	81.197		
9,700.0	7,441.0	7,100.0	7,098.7	39.9	12.4	-53.23	1,484.4	1,779.3	3,170.5	3,131.4	39.08	81.131		
9,800.0	7,441.0	7,100.0	7,098.7	41.2	12.4	-53.23	1,484.4	1,779.3	3,268.5	3,228.1	40.33	81.042		
9,900.0	7,441.0	7,100.0	7,098.7	42.6	12.4	-53.23	1,484.4	1,779.3	3,366.5	3,324.9	41.60	80.934		
10,000.0	7,441.0	7,100.0	7,098.7	44.0	12.4	-53.23	1,484.4	1,779.3	3,464.7	3,421.8	42.87	80.812		
10,100.0	7,441.0	7,100.0	7,098.7	45.4	12.4	-53.23	1,484.4	1,779.3	3,563.0	3,518.8	44.16	80.680		
10,200.0	7,441.0	7,088.2	7,087.0	46.9	12.4	-52.36	1,483.1	1,778.2	3,661.2	3,616.1	45.05	81.267		
10,300.0	7,441.0	7,087.0	7,085.8	48.4	12.4	-52.27	1,483.0	1,778.1	3,759.6	3,713.3	46.30	81.209		
10,400.0	7,441.0	7,075.0	7,073.9	49.8	12.3	-51.41	1,481.9	1,777.2	3,858.2	3,811.1	47.15	81.827		
10,500.0	7,441.0	7,075.0	7,073.9	51.3	12.3	-51.41	1,481.9	1,777.2	3,956.8	3,908.3	48.44	81.687		
10,600.0	7,441.0	7,075.0	7,073.9	52.9	12.3	-51.41	1,481.9	1,777.2	4,055.4	4,005.7	49.73	81.546		
10,700.0	7,441.0	7,075.0	7,073.9	54.4	12.3	-51.41	1,481.9	1,777.2	4,154.1	4,103.0	51.03	81.405		
10,800.0	7,441.0	7,075.0	7,073.9	55.9	12.3	-51.41	1,481.9	1,777.2	4,252.8	4,200.5	52.33	81.264		
10,900.0	7,441.0	7,075.0	7,073.9	57.5	12.3	-51.41	1,481.9	1,777.2	4,351.6	4,298.0	53.64	81.124		
11,000.0	7,441.0	7,075.0	7,073.9	59.1	12.3	-51.41	1,481.9	1,777.2	4,450.5	4,395.5	54.95	80.985		
11,100.0	7,441.0	7,075.0	7,073.9	60.7	12.3	-51.41	1,481.9	1,777.2	4,549.4	4,493.1	56.27	80.849		
11,200.0	7,441.0	7,075.0	7,073.9	62.2	12.3	-51.41	1,481.9	1,777.2	4,648.3	4,590.7	57.59	80.715		
11,300.0	7,441.0	7,075.0	7,073.9	63.8	12.3	-51.41	1,481.9	1,777.2	4,747.3	4,688.4	58.91	80.583		
11,400.0	7,441.0	7,075.0	7,073.9	65.4	12.3	-51.41	1,481.9	1,777.2	4,846.4	4,786.1	60.24	80.454		
11,500.0	7,441.0	7,075.0	7,073.9	67.1	12.3	-51.41	1,481.9	1,777.2	4,945.4	4,883.9	61.57	80.327		
11,600.0	7,441.0	7,075.0	7,073.9	68.7	12.3	-51.41	1,481.9	1,777.2	5,044.6	4,981.7	62.90	80.203		
11,700.0	7,441.0	7,075.0	7,073.9	70.3	12.3	-51.41	1,481.9	1,777.2	5,143.7	5,079.5	64.23	80.082		
11,800.0	7,441.0	7,075.0	7,073.9	71.9	12.3	-51.41	1,481.9	1,777.2	5,242.9	5,177.3	65.57	79.964		
11,900.0	7,441.0	7,075.0	7,073.9	73.6	12.3	-51.41	1,481.9	1,777.2	5,342.1	5,275.2	66.90	79.849		
12,000.0	7,441.0	7,075.0	7,073.9	75.2	12.3	-51.41	1,481.9	1,777.2	5,441.3	5,373.1	68.24	79.736		
12,100.0	7,441.0	7,075.0	7,073.9	76.9	12.3	-51.41	1,481.9	1,777.2	5,540.6	5,471.0	69.58	79.627		
12,135.7	7,441.0	7,075.0	7,073.9	77.5	12.3	-51.41	1,481.9	1,777.2	5,576.0	5,505.9	70.06	79.588		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		
0.0	0.0	0.0	0.0	0.0	0.0	-178.82	-3,212.2	-66.0	3,212.9					
100.0	100.0	100.0	100.0	0.2	0.2	-178.82	-3,212.2	-66.0	3,212.9	3,212.5	0.33	9,844.036		
200.0	200.0	200.0	200.0	0.3	0.3	-178.82	-3,212.2	-66.0	3,212.9	3,212.2	0.68	4,756.680		
300.0	300.0	300.0	300.0	0.5	0.5	122.11	-3,212.2	-66.0	3,213.3	3,212.3	1.03	3,134.533		
400.0	400.0	400.0	400.0	0.7	0.7	122.13	-3,212.2	-66.0	3,214.7	3,213.3	1.38	2,333.231		
500.0	499.9	499.9	499.9	0.9	0.9	122.18	-3,212.2	-66.0	3,217.0	3,215.3	1.74	1,853.094		
600.0	599.7	599.7	599.7	1.1	1.0	122.24	-3,212.2	-66.0	3,220.3	3,218.2	2.10	1,531.735		
700.0	699.4	699.4	699.4	1.3	1.2	122.33	-3,212.2	-66.0	3,224.5	3,222.0	2.48	1,300.631		
800.0	798.9	798.9	798.9	1.5	1.4	122.43	-3,212.2	-66.0	3,229.7	3,226.8	2.87	1,125.899		
900.0	898.3	898.3	898.3	1.8	1.6	122.54	-3,212.2	-66.0	3,235.8	3,232.5	3.27	988.868		
1,000.0	997.4	997.4	997.4	2.0	1.7	122.68	-3,212.2	-66.0	3,242.8	3,239.1	3.69	878.403		
1,100.0	1,096.3	1,096.3	1,096.3	2.3	1.9	122.83	-3,212.2	-66.0	3,250.9	3,246.8	4.13	787.441		
1,200.0	1,194.9	1,194.9	1,194.9	2.7	2.1	122.99	-3,212.2	-66.0	3,259.9	3,255.4	4.58	711.274		
1,300.0	1,293.3	1,293.3	1,293.3	3.0	2.3	123.17	-3,212.2	-66.0	3,270.0	3,265.0	5.06	646.634		
1,400.0	1,391.2	1,391.2	1,391.2	3.4	2.4	123.37	-3,212.2	-66.0	3,281.1	3,275.6	5.55	591.172		
1,500.0	1,488.9	1,488.9	1,488.9	3.8	2.6	123.57	-3,212.2	-66.0	3,293.2	3,287.2	6.06	543.151		
1,600.0	1,586.1	1,586.1	1,586.1	4.2	2.8	123.79	-3,212.2	-66.0	3,306.4	3,299.8	6.60	501.252		
1,700.0	1,682.9	1,682.9	1,682.9	4.7	2.9	124.02	-3,212.2	-66.0	3,320.7	3,313.6	7.15	464.454		
1,800.0	1,779.3	1,779.3	1,779.3	5.2	3.1	124.27	-3,212.2	-66.0	3,336.1	3,328.4	7.72	431.951		
1,900.0	1,875.2	1,875.2	1,875.2	5.7	3.3	124.52	-3,212.2	-66.0	3,352.6	3,344.3	8.32	403.097		
2,000.0	1,970.8	1,970.8	1,970.8	6.3	3.4	124.92	-3,212.2	-66.0	3,369.8	3,360.8	8.91	378.169		
2,100.0	2,066.4	2,066.4	2,066.4	6.8	3.6	125.31	-3,212.2	-66.0	3,387.1	3,377.6	9.50	356.388		
2,200.0	2,162.1	2,162.1	2,162.1	7.3	3.8	125.70	-3,212.2	-66.0	3,404.6	3,394.5	10.10	337.220		
2,300.0	2,257.7	2,257.7	2,257.7	7.9	3.9	126.09	-3,212.2	-66.0	3,422.2	3,411.5	10.69	320.242		
2,400.0	2,353.3	2,353.3	2,353.3	8.4	4.1	126.47	-3,212.2	-66.0	3,440.0	3,428.7	11.27	305.112		
2,500.0	2,448.9	2,448.9	2,448.9	9.0	4.3	126.85	-3,212.2	-66.0	3,458.0	3,446.1	11.86	291.553		
2,600.0	2,544.6	2,544.6	2,544.6	9.5	4.4	127.22	-3,212.2	-66.0	3,476.1	3,463.6	12.44	279.342		
2,700.0	2,640.2	2,640.2	2,640.2	10.1	4.6	127.59	-3,212.2	-66.0	3,494.3	3,481.3	13.02	268.293		
2,800.0	2,735.8	2,735.8	2,735.8	10.6	4.8	127.96	-3,212.2	-66.0	3,512.7	3,499.1	13.60	258.253		
2,900.0	2,831.5	2,831.5	2,831.5	11.2	4.9	128.33	-3,212.2	-66.0	3,531.3	3,517.1	14.18	249.094		
3,000.0	2,927.1	2,927.1	2,927.1	11.7	5.1	128.69	-3,212.2	-66.0	3,550.0	3,535.3	14.75	240.709		
3,100.0	3,022.7	3,022.7	3,022.7	12.2	5.3	129.04	-3,212.2	-66.0	3,568.8	3,553.5	15.32	233.007		
3,200.0	3,118.4	3,118.4	3,118.4	12.8	5.4	129.40	-3,212.2	-66.0	3,587.8	3,571.9	15.88	225.910		
3,300.0	3,214.0	3,214.0	3,214.0	13.3	5.6	129.75	-3,212.2	-66.0	3,606.9	3,590.5	16.44	219.352		
3,400.0	3,309.6	3,309.6	3,309.6	13.9	5.8	130.09	-3,212.2	-66.0	3,626.2	3,609.2	17.00	213.277		
3,500.0	3,405.3	3,405.3	3,405.3	14.4	5.9	130.44	-3,212.2	-66.0	3,645.6	3,628.0	17.56	207.634		
3,600.0	3,500.9	3,500.9	3,500.9	15.0	6.1	130.77	-3,212.2	-66.0	3,665.1	3,647.0	18.11	202.380		
3,700.0	3,596.5	3,596.5	3,596.5	15.5	6.3	131.11	-3,212.2	-66.0	3,684.7	3,666.1	18.66	197.479		
3,800.0	3,692.1	3,692.1	3,692.1	16.1	6.4	131.44	-3,212.2	-66.0	3,704.5	3,685.3	19.20	192.898		
3,900.0	3,787.8	3,787.8	3,787.8	16.7	6.6	131.77	-3,212.2	-66.0	3,724.4	3,704.7	19.75	188.607		
4,000.0	3,883.4	3,883.4	3,883.4	17.2	6.8	132.10	-3,212.2	-66.0	3,744.4	3,724.1	20.29	184.581		
4,100.0	3,979.0	3,979.0	3,979.0	17.8	6.9	132.42	-3,212.2	-66.0	3,764.6	3,743.7	20.82	180.798		
4,200.0	4,074.7	4,074.7	4,074.7	18.3	7.1	132.74	-3,212.2	-66.0	3,784.8	3,763.5	21.35	177.236		
4,300.0	4,170.3	4,170.3	4,170.3	18.9	7.3	133.06	-3,212.2	-66.0	3,805.2	3,783.3	21.88	173.879		
4,400.0	4,265.9	4,265.9	4,265.9	19.4	7.4	133.37	-3,212.2	-66.0	3,825.7	3,803.3	22.41	170.709		
4,500.0	4,361.6	4,361.6	4,361.6	20.0	7.6	133.68	-3,212.2	-66.0	3,846.3	3,823.3	22.93	167.713		
4,600.0	4,457.2	4,457.2	4,457.2	20.5	7.8	133.98	-3,212.2	-66.0	3,867.0	3,843.5	23.45	164.877		
4,700.0	4,552.8	4,552.8	4,552.8	21.1	7.9	134.29	-3,212.2	-66.0	3,887.8	3,863.8	23.97	162.189		
4,800.0	4,648.5	4,648.5	4,648.5	21.6	8.1	134.59	-3,212.2	-66.0	3,908.7	3,884.3	24.48	159.639		
4,900.0	4,744.1	4,744.1	4,744.1	22.2	8.3	134.88	-3,212.2	-66.0	3,929.8	3,904.8	25.00	157.218		
5,000.0	4,839.7	4,839.7	4,839.7	22.7	8.4	135.18	-3,212.2	-66.0	3,950.9	3,925.4	25.50	154.916		
5,100.0	4,935.3	4,935.3	4,935.3	23.3	8.6	135.47	-3,212.2	-66.0	3,972.2	3,946.2	26.01	152.725		

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 1G-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 1G-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: O-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		
5,204.0	5,034.8	5,034.8	5,034.8	23.9	8.8	135.77	-3,212.2	-66.0	3,994.4	3,967.8	26.53	150.556		
5,300.0	5,126.8	5,126.8	5,126.8	24.4	8.9	136.18	-3,212.2	-66.0	4,014.4	3,987.4	26.98	148.818		
5,400.0	5,223.2	5,223.2	5,223.2	24.9	9.1	136.57	-3,212.2	-66.0	4,034.1	4,006.7	27.42	147.113		
5,500.0	5,320.0	5,320.0	5,320.0	25.3	9.3	136.94	-3,212.2	-66.0	4,052.7	4,024.8	27.85	145.503		
5,600.0	5,417.2	5,417.2	5,417.2	25.8	9.5	137.29	-3,212.2	-66.0	4,070.1	4,041.8	28.27	143.976		
5,700.0	5,514.8	5,514.8	5,514.8	26.2	9.6	137.60	-3,212.2	-66.0	4,086.2	4,057.6	28.67	142.522		
5,800.0	5,612.8	5,612.8	5,612.8	26.5	9.8	137.89	-3,212.2	-66.0	4,101.2	4,072.1	29.06	141.133		
5,900.0	5,711.1	5,711.1	5,711.1	26.9	10.0	138.15	-3,212.2	-66.0	4,114.9	4,085.4	29.43	139.800		
6,000.0	5,809.7	5,809.7	5,809.7	27.2	10.1	138.39	-3,212.2	-66.0	4,127.3	4,097.5	29.80	138.518		
6,100.0	5,908.6	5,908.6	5,908.6	27.5	10.3	138.60	-3,212.2	-66.0	4,138.5	4,108.4	30.15	137.280		
6,200.0	6,007.7	6,007.7	6,007.7	27.8	10.5	138.78	-3,212.2	-66.0	4,148.4	4,117.9	30.48	136.081		
6,300.0	6,107.1	6,107.1	6,107.1	28.0	10.7	138.94	-3,212.2	-66.0	4,157.0	4,126.2	30.81	134.918		
6,400.0	6,206.6	6,206.6	6,206.6	28.2	10.8	139.08	-3,212.2	-66.0	4,164.3	4,133.2	31.13	133.785		
6,500.0	6,306.3	6,306.3	6,306.3	28.4	11.0	139.19	-3,212.2	-66.0	4,170.3	4,138.9	31.43	132.679		
6,600.0	6,406.1	6,406.1	6,406.1	28.6	11.2	139.27	-3,212.2	-66.0	4,175.0	4,143.2	31.73	131.598		
6,700.0	6,506.0	6,506.0	6,506.0	28.7	11.4	139.33	-3,212.2	-66.0	4,178.3	4,146.3	32.01	130.538		
6,800.0	6,606.0	6,606.0	6,606.0	28.8	11.5	139.37	-3,212.2	-66.0	4,180.4	4,148.1	32.28	129.497		
6,904.0	6,710.0	6,710.0	6,710.0	28.9	11.7	-161.54	-3,212.2	-66.0	4,181.1	4,148.5	32.56	128.430		
6,918.8	6,724.8	6,724.8	6,724.8	28.9	11.7	-161.54	-3,212.2	-66.0	4,181.1	4,148.5	32.60	128.269		
6,950.0	6,756.0	6,756.0	6,756.0	28.9	11.8	18.48	-3,212.2	-66.0	4,180.4	4,147.8	32.62	128.141		
7,000.0	6,805.8	6,805.8	6,805.8	28.9	11.9	18.59	-3,212.2	-66.0	4,176.7	4,144.2	32.55	128.323		
7,050.0	6,855.2	6,855.2	6,855.2	28.8	12.0	18.81	-3,212.2	-66.0	4,169.7	4,137.4	32.32	129.005		
7,100.0	6,904.0	6,904.0	6,904.0	28.8	12.0	19.13	-3,212.2	-66.0	4,159.5	4,127.5	31.95	130.197		
7,150.0	6,952.0	6,952.0	6,952.0	28.7	12.1	19.56	-3,212.2	-66.0	4,146.0	4,114.6	31.43	131.919		
7,200.0	6,998.8	6,998.8	6,998.8	28.6	12.2	20.12	-3,212.2	-66.0	4,129.4	4,098.7	30.77	134.193		
7,250.0	7,044.3	7,044.3	7,044.3	28.5	12.3	20.82	-3,212.2	-66.0	4,109.8	4,079.8	29.99	137.046		
7,300.0	7,088.2	7,088.2	7,088.2	28.3	12.4	21.67	-3,212.2	-66.0	4,087.3	4,058.2	29.09	140.503		
7,350.0	7,130.4	7,130.4	7,130.4	28.2	12.4	22.70	-3,212.2	-66.0	4,061.9	4,033.8	28.09	144.580		
7,400.0	7,170.6	7,170.6	7,170.6	28.0	12.5	23.94	-3,212.2	-66.0	4,033.8	4,006.7	27.02	149.267		
7,450.0	7,208.6	7,208.6	7,208.6	27.8	12.6	25.42	-3,212.2	-66.0	4,003.1	3,977.2	25.91	154.504		
7,500.0	7,244.3	7,244.3	7,244.3	27.7	12.6	27.20	-3,212.2	-66.0	3,970.1	3,945.3	24.79	160.132		
7,550.0	7,277.4	7,277.4	7,277.4	27.5	12.7	29.32	-3,212.2	-66.0	3,934.8	3,911.1	23.73	165.828		
7,600.0	7,307.8	7,307.8	7,307.8	27.3	12.8	31.88	-3,212.2	-66.0	3,897.5	3,874.7	22.79	171.018		
7,650.0	7,335.4	7,335.4	7,335.4	27.2	12.8	34.96	-3,212.2	-66.0	3,858.3	3,836.2	22.07	174.815		
7,700.0	7,360.0	7,360.0	7,360.0	27.0	12.8	38.68	-3,212.2	-66.0	3,817.5	3,795.8	21.68	176.090		
7,750.0	7,381.6	7,381.6	7,381.6	26.9	12.9	43.20	-3,212.2	-66.0	3,775.2	3,753.5	21.72	173.829		
7,800.0	7,399.9	7,399.9	7,399.9	26.8	12.9	48.65	-3,212.2	-66.0	3,731.7	3,709.4	22.24	167.760		
7,850.0	7,414.9	7,414.9	7,414.9	26.7	12.9	55.21	-3,212.2	-66.0	3,687.1	3,663.9	23.22	158.785		
7,900.0	7,426.6	7,426.6	7,426.6	26.6	13.0	62.93	-3,212.2	-66.0	3,641.8	3,617.3	24.49	148.729		
7,950.0	7,434.9	7,434.9	7,434.9	26.5	13.0	71.74	-3,212.2	-66.0	3,595.9	3,570.1	25.77	139.553		
8,000.0	7,439.7	7,439.7	7,439.7	26.5	13.0	81.35	-3,212.2	-66.0	3,549.7	3,522.9	26.76	132.647		
8,043.8	7,441.0	7,441.0	7,441.0	26.5	13.0	90.00	-3,212.2	-66.0	3,509.1	3,481.9	27.23	128.851		
8,100.0	7,441.0	7,441.0	7,441.0	26.6	13.0	90.00	-3,212.2	-66.0	3,457.1	3,429.8	27.35	126.414		
8,200.0	7,441.0	7,441.0	7,441.0	26.7	13.0	90.00	-3,212.2	-66.0	3,365.0	3,337.3	27.71	121.423		
8,300.0	7,441.0	7,441.0	7,441.0	27.0	13.0	90.00	-3,212.2	-66.0	3,273.3	3,245.0	28.27	115.779		
8,400.0	7,441.0	7,441.0	7,441.0	27.4	13.0	90.00	-3,212.2	-66.0	3,182.1	3,153.1	29.00	109.711		
8,500.0	7,441.0	7,441.0	7,441.0	27.8	13.0	90.00	-3,212.2	-66.0	3,091.4	3,061.5	29.89	103.435		
8,600.0	7,441.0	7,441.0	7,441.0	28.4	13.0	90.00	-3,212.2	-66.0	3,001.4	2,970.5	30.90	97.133		
8,700.0	7,441.0	7,441.0	7,441.0	29.1	13.0	90.00	-3,212.2	-66.0	2,912.0	2,879.9	32.02	90.943		
8,800.0	7,441.0	7,441.0	7,441.0	29.9	13.0	90.00	-3,212.2	-66.0	2,823.3	2,790.0	33.23	84.961		
8,900.0	7,441.0	7,441.0	7,441.0	30.8	13.0	90.00	-3,212.2	-66.0	2,735.3	2,700.8	34.52	79.250		
9,000.0	7,441.0	7,441.0	7,441.0	31.7	13.0	90.00	-3,212.2	-66.0	2,648.3	2,612.4	35.86	73.844		

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 1G-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 1G-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis		Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
9,100.0	7,441.0	7,441.0	7,441.0	32.7	13.0	90.00	-3,212.2	-66.0	2,562.2	2,524.9	37.26	68.759		
9,200.0	7,441.0	7,441.0	7,441.0	33.8	13.0	90.00	-3,212.2	-66.0	2,477.1	2,438.4	38.71	63.997		
9,300.0	7,441.0	7,441.0	7,441.0	34.9	13.0	90.00	-3,212.2	-66.0	2,393.2	2,353.0	40.19	59.553		
9,400.0	7,441.0	7,441.0	7,441.0	36.1	13.0	90.00	-3,212.2	-66.0	2,310.5	2,268.8	41.70	55.413		
9,500.0	7,441.0	7,441.0	7,441.0	37.3	13.0	90.00	-3,212.2	-66.0	2,229.3	2,186.1	43.23	51.565		
9,600.0	7,441.0	7,441.0	7,441.0	38.6	13.0	90.00	-3,212.2	-66.0	2,149.7	2,104.9	44.79	47.992		
9,700.0	7,441.0	7,441.0	7,441.0	39.9	13.0	90.00	-3,212.2	-66.0	2,071.8	2,025.4	46.37	44.679		
9,800.0	7,441.0	7,441.0	7,441.0	41.2	13.0	90.00	-3,212.2	-66.0	1,995.9	1,948.0	47.97	41.610		
9,900.0	7,441.0	7,441.0	7,441.0	42.6	13.0	90.00	-3,212.2	-66.0	1,922.2	1,872.7	49.58	38.773		
10,000.0	7,441.0	7,441.0	7,441.0	44.0	13.0	90.00	-3,212.2	-66.0	1,851.0	1,799.8	51.20	36.153		
10,100.0	7,441.0	7,441.0	7,441.0	45.4	13.0	90.00	-3,212.2	-66.0	1,782.6	1,729.7	52.83	33.740		
10,200.0	7,441.0	7,441.0	7,441.0	46.9	13.0	90.00	-3,212.2	-66.0	1,717.2	1,662.7	54.48	31.522		
10,300.0	7,441.0	7,441.0	7,441.0	48.4	13.0	90.00	-3,212.2	-66.0	1,655.3	1,599.2	56.13	29.492		
10,400.0	7,441.0	7,441.0	7,441.0	49.8	13.0	90.00	-3,212.2	-66.0	1,597.3	1,539.5	57.79	27.640		
10,500.0	7,441.0	7,441.0	7,441.0	51.3	13.0	90.00	-3,212.2	-66.0	1,543.6	1,484.2	59.46	25.962		
10,600.0	7,441.0	7,441.0	7,441.0	52.9	13.0	90.00	-3,212.2	-66.0	1,494.7	1,433.5	61.13	24.451		
10,700.0	7,441.0	7,441.0	7,441.0	54.4	13.0	90.00	-3,212.2	-66.0	1,451.0	1,388.2	62.81	23.102		
10,800.0	7,441.0	7,441.0	7,441.0	55.9	13.0	90.00	-3,212.2	-66.0	1,413.0	1,348.5	64.49	21.910		
10,900.0	7,441.0	7,441.0	7,441.0	57.5	13.0	90.00	-3,212.2	-66.0	1,381.3	1,315.1	66.18	20.871		
11,000.0	7,441.0	7,441.0	7,441.0	59.1	13.0	90.00	-3,212.2	-66.0	1,356.2	1,288.3	67.87	19.981		
11,100.0	7,441.0	7,441.0	7,441.0	60.7	13.0	90.00	-3,212.2	-66.0	1,338.1	1,268.5	69.57	19.234		
11,200.0	7,441.0	7,441.0	7,441.0	62.2	13.0	90.00	-3,212.2	-66.0	1,327.3	1,256.0	71.27	18.624		
11,293.6	7,441.0	7,441.0	7,441.0	63.7	13.0	90.00	-3,212.2	-66.0	1,324.0	1,251.1	72.86	18.172 CC		
11,300.0	7,441.0	7,441.0	7,441.0	63.8	13.0	90.00	-3,212.2	-66.0	1,324.0	1,251.0	72.97	18.145 ES		
11,400.0	7,441.0	7,441.0	7,441.0	65.4	13.0	90.00	-3,212.2	-66.0	1,328.3	1,253.6	74.68	17.787		
11,500.0	7,441.0	7,441.0	7,441.0	67.1	13.0	90.00	-3,212.2	-66.0	1,340.0	1,263.6	76.38	17.543		
11,600.0	7,441.0	7,441.0	7,441.0	68.7	13.0	90.00	-3,212.2	-66.0	1,359.0	1,280.9	78.10	17.402		
11,700.0	7,441.0	7,441.0	7,441.0	70.3	13.0	90.00	-3,212.2	-66.0	1,385.0	1,305.2	79.81	17.354 SF		
11,800.0	7,441.0	7,441.0	7,441.0	71.9	13.0	90.00	-3,212.2	-66.0	1,417.6	1,336.0	81.52	17.388		
11,900.0	7,441.0	7,441.0	7,441.0	73.6	13.0	90.00	-3,212.2	-66.0	1,456.3	1,373.0	83.24	17.495		
12,000.0	7,441.0	7,441.0	7,441.0	75.2	13.0	90.00	-3,212.2	-66.0	1,500.7	1,415.7	84.96	17.664		
12,100.0	7,441.0	7,441.0	7,441.0	76.9	13.0	90.00	-3,212.2	-66.0	1,550.3	1,463.6	86.68	17.885		
12,135.7	7,441.0	7,441.0	7,441.0	77.5	13.0	90.00	-3,212.2	-66.0	1,569.1	1,481.8	87.29	17.975		

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 1G-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 1G-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	125.47	-229.8	322.6	396.2						
100.0	100.0	88.5	88.5	0.2	0.1	125.49	-230.0	322.5	396.1	395.9	0.23	1,728.507			
200.0	200.0	188.5	188.5	0.3	0.2	125.59	-230.6	322.2	396.2	395.7	0.49	806.898			
300.0	300.0	287.7	287.7	0.5	0.3	66.79	-231.7	321.7	396.1	395.4	0.75	525.431			
400.0	400.0	388.9	388.9	0.7	0.3	67.36	-232.9	321.1	395.3	394.3	1.02	386.808			
500.0	499.9	487.9	487.9	0.9	0.4	68.14	-234.0	320.4	393.7	392.4	1.29	304.051			
600.0	599.7	588.7	588.6	1.1	0.5	69.17	-235.1	319.7	391.7	390.1	1.58	247.861			
700.0	699.4	689.6	689.5	1.3	0.6	70.47	-236.0	318.8	388.8	386.9	1.88	206.868			
800.0	798.9	789.8	789.7	1.5	0.7	72.00	-236.5	317.9	385.3	383.1	2.20	175.494			
900.0	898.3	889.7	889.6	1.8	0.8	73.79	-236.8	316.9	381.4	378.9	2.53	150.605			
1,000.0	997.4	988.5	988.4	2.0	0.9	75.85	-237.1	315.8	377.4	374.5	2.89	130.458			
1,100.0	1,096.3	1,087.4	1,087.3	2.3	1.0	78.21	-237.3	314.8	373.5	370.2	3.28	113.896			
1,200.0	1,194.9	1,185.8	1,185.7	2.7	1.0	80.81	-237.4	313.9	369.9	366.2	3.69	100.158			
1,300.0	1,293.3	1,284.1	1,284.1	3.0	1.1	83.71	-237.5	313.1	367.0	362.8	4.14	88.708			
1,400.0	1,391.2	1,381.2	1,381.1	3.4	1.2	86.86	-237.6	312.3	364.9	360.3	4.61	79.214			
1,500.0	1,488.9	1,478.7	1,478.6	3.8	1.3	90.29	-237.8	311.6	364.1	359.0	5.10	71.373			
1,507.0	1,495.7	1,485.6	1,485.5	3.8	1.3	90.54	-237.8	311.6	364.1	359.0	5.14	70.863 CC, ES			
1,600.0	1,586.1	1,575.7	1,575.6	4.2	1.4	93.93	-238.0	311.0	364.8	359.2	5.62	64.942			
1,700.0	1,682.9	1,672.6	1,672.5	4.7	1.5	97.79	-238.1	310.3	367.4	361.2	6.15	59.745			
1,800.0	1,779.3	1,769.3	1,769.2	5.2	1.6	101.79	-238.2	309.7	371.8	365.2	6.69	55.614			
1,900.0	1,875.2	1,865.2	1,865.2	5.7	1.6	105.88	-238.1	308.9	378.6	371.4	7.22	52.429			
2,000.0	1,970.8	1,962.0	1,961.9	6.3	1.7	110.03	-237.9	308.1	387.7	379.9	7.72	50.190			
2,100.0	2,066.4	2,058.0	2,057.9	6.8	1.8	113.92	-237.4	307.5	398.4	390.2	8.19	48.619			
2,200.0	2,162.1	2,153.6	2,153.5	7.3	1.9	117.58	-236.9	307.0	410.9	402.3	8.63	47.622			
2,300.0	2,257.7	2,249.4	2,249.3	7.9	2.0	121.02	-236.3	306.5	425.1	416.1	9.03	47.066			
2,400.0	2,353.3	2,344.7	2,344.5	8.4	2.1	124.23	-235.7	306.1	440.8	431.4	9.40	46.870			
2,500.0	2,448.9	2,440.0	2,439.8	9.0	2.1	127.21	-235.3	305.7	457.9	448.2	9.75	46.963			
2,600.0	2,544.6	2,535.3	2,535.2	9.5	2.2	129.98	-234.8	305.3	476.3	466.2	10.07	47.287			
2,700.0	2,640.2	2,629.7	2,629.6	10.1	2.3	132.53	-234.5	304.9	495.8	485.4	10.37	47.794			
2,800.0	2,735.8	2,722.8	2,722.7	10.6	2.4	134.88	-234.5	304.2	516.6	506.0	10.66	48.480			
2,900.0	2,831.5	2,817.1	2,817.0	11.2	2.5	137.11	-234.7	303.2	538.7	527.8	10.92	49.323			
3,000.0	2,927.1	2,912.7	2,912.5	11.7	2.5	139.23	-234.9	301.9	561.5	550.3	11.17	50.278			
3,100.0	3,022.7	3,007.8	3,007.6	12.2	2.6	141.20	-235.0	300.4	585.1	573.6	11.40	51.306			
3,200.0	3,118.4	3,102.3	3,102.1	12.8	2.7	143.01	-235.2	298.9	609.3	597.6	11.63	52.384			
3,300.0	3,214.0	3,196.4	3,196.2	13.3	2.8	144.67	-235.5	297.4	634.2	622.3	11.85	53.503			
3,400.0	3,309.6	3,293.6	3,293.4	13.9	2.9	146.26	-235.8	295.9	659.5	647.5	12.07	54.661			
3,500.0	3,405.3	3,388.3	3,388.1	14.4	3.0	147.70	-235.9	294.4	685.2	672.9	12.28	55.809			
3,600.0	3,500.9	3,483.0	3,482.8	15.0	3.1	149.03	-236.1	292.9	711.3	698.8	12.49	56.964			
3,700.0	3,596.5	3,577.5	3,577.3	15.5	3.1	150.27	-236.5	291.5	737.8	725.2	12.70	58.117			
3,800.0	3,692.1	3,671.4	3,671.1	16.1	3.2	151.40	-236.9	290.1	764.8	751.9	12.91	59.263			
3,900.0	3,787.8	3,764.0	3,763.7	16.7	3.3	152.45	-237.6	288.5	792.3	779.2	13.11	60.413			
4,000.0	3,883.4	3,854.2	3,853.9	17.2	3.4	153.41	-238.5	286.8	820.4	807.1	13.32	61.573			
4,100.0	3,979.0	3,943.8	3,943.5	17.8	3.5	154.32	-239.7	284.5	849.4	835.9	13.53	62.768			
4,200.0	4,074.7	4,034.8	4,034.5	18.3	3.5	155.21	-241.2	281.6	879.1	865.3	13.73	64.002			
4,300.0	4,170.3	4,126.3	4,125.9	18.9	3.6	156.12	-242.3	277.7	909.3	895.4	13.93	65.297			
4,400.0	4,265.9	4,217.4	4,216.8	19.4	3.7	157.04	-243.0	272.8	940.0	925.9	14.11	66.640			
4,500.0	4,361.6	4,309.9	4,309.2	20.0	3.8	157.93	-243.8	267.4	971.2	957.0	14.28	68.000			
4,600.0	4,457.2	4,411.1	4,410.1	20.5	3.9	158.87	-244.0	261.4	1,002.3	987.9	14.45	69.361			
4,700.0	4,552.8	4,506.3	4,505.2	21.1	4.0	159.71	-243.8	255.8	1,033.3	1,018.6	14.62	70.653			
4,800.0	4,648.5	4,602.9	4,601.6	21.6	4.1	160.53	-243.4	250.1	1,064.2	1,049.4	14.80	71.918			
4,900.0	4,744.1	4,699.8	4,698.4	22.2	4.2	161.32	-242.6	244.4	1,095.1	1,080.1	14.97	73.149			
5,000.0	4,839.7	4,800.1	4,798.5	22.7	4.3	162.09	-241.3	238.6	1,125.8	1,110.7	15.14	74.338			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		
5,100.0	4,935.3	4,900.4	4,898.7	23.3	4.4	162.79	-240.1	233.6	1,156.1	1,140.8	15.33	75.434		
5,204.0	5,034.8	4,999.0	4,997.1	23.9	4.4	163.40	-239.4	229.6	1,187.6	1,172.0	15.53	76.464		
5,300.0	5,126.8	5,087.9	5,086.0	24.4	4.5	163.95	-239.4	226.5	1,216.0	1,200.3	15.71	77.412		
5,400.0	5,223.2	5,183.7	5,181.7	24.9	4.6	164.45	-239.9	223.7	1,244.2	1,228.3	15.90	78.245		
5,500.0	5,320.0	5,280.9	5,279.0	25.3	4.7	164.89	-240.6	221.1	1,270.8	1,254.7	16.10	78.935		
5,600.0	5,417.2	5,378.5	5,376.5	25.8	4.8	165.29	-241.4	218.6	1,295.8	1,279.5	16.30	79.491		
5,700.0	5,514.8	5,475.9	5,473.9	26.2	4.9	165.64	-242.1	216.2	1,319.0	1,302.5	16.50	79.926		
5,800.0	5,612.8	5,573.2	5,571.2	26.5	5.0	165.96	-242.7	213.7	1,340.7	1,324.0	16.71	80.252		
5,900.0	5,711.1	5,673.5	5,671.4	26.9	5.0	166.26	-243.4	211.2	1,360.6	1,343.7	16.91	80.459		
6,000.0	5,809.7	5,773.6	5,771.4	27.2	5.1	166.53	-243.7	208.7	1,378.8	1,361.6	17.12	80.555		
6,100.0	5,908.6	5,879.8	5,877.6	27.5	5.2	166.81	-243.6	206.0	1,395.0	1,377.6	17.32	80.536		
6,200.0	6,007.7	5,990.5	5,988.3	27.8	5.3	167.09	-242.3	203.2	1,408.8	1,391.2	17.52	80.388		
6,300.0	6,107.1	6,097.3	6,095.0	28.0	5.4	167.36	-240.2	200.7	1,420.2	1,402.5	17.72	80.126		
6,400.0	6,206.6	6,192.1	6,189.8	28.2	5.5	167.57	-238.4	198.7	1,429.9	1,411.9	17.92	79.789		
6,500.0	6,306.3	6,295.3	6,293.0	28.4	5.6	167.75	-236.8	196.8	1,437.9	1,419.8	18.12	79.333		
6,600.0	6,406.1	6,400.0	6,397.7	28.6	5.7	167.90	-235.3	195.5	1,443.8	1,425.5	18.33	78.749		
6,700.0	6,506.0	6,493.6	6,491.2	28.7	5.8	167.99	-234.4	194.8	1,448.1	1,429.6	18.54	78.103		
6,800.0	6,606.0	6,593.0	6,590.7	28.8	5.9	168.05	-233.9	193.9	1,451.0	1,432.3	18.75	77.374		
6,904.0	6,710.0	6,700.0	6,697.6	28.9	6.0	-132.81	-233.2	193.0	1,452.1	1,433.2	18.98	76.522		
6,918.8	6,724.8	6,715.1	6,712.8	28.9	6.0	-132.80	-233.1	192.9	1,452.1	1,433.1	19.01	76.378		
6,950.0	6,756.0	6,745.8	6,743.5	28.9	6.0	47.25	-232.8	192.6	1,451.7	1,432.7	19.03	76.284		
7,000.0	6,805.8	6,794.9	6,792.5	28.9	6.0	47.55	-232.3	192.0	1,449.1	1,430.1	19.01	76.236		
7,050.0	6,855.2	6,840.9	6,838.6	28.8	6.1	48.06	-231.9	191.5	1,444.3	1,425.3	18.93	76.310		
7,100.0	6,904.0	6,886.1	6,883.7	28.8	6.1	48.80	-231.7	191.0	1,437.2	1,418.5	18.80	76.458		
7,150.0	6,952.0	6,935.4	6,933.0	28.7	6.2	49.82	-231.5	190.4	1,428.1	1,409.5	18.64	76.628		
7,200.0	6,998.8	6,985.6	6,983.2	28.6	6.2	51.13	-231.1	189.8	1,416.7	1,398.3	18.46	76.731		
7,250.0	7,044.3	7,030.4	7,028.0	28.5	6.2	52.64	-230.7	189.2	1,403.4	1,385.1	18.31	76.651		
7,300.0	7,088.2	7,072.2	7,069.8	28.3	6.3	54.37	-230.5	188.8	1,388.2	1,370.0	18.20	76.287		
7,350.0	7,130.4	7,113.6	7,111.3	28.2	6.3	56.36	-230.4	188.4	1,371.5	1,353.4	18.16	75.545		
7,400.0	7,170.6	7,155.6	7,153.2	28.0	6.4	58.63	-230.4	188.1	1,353.3	1,335.1	18.20	74.347		
7,450.0	7,208.6	7,195.2	7,192.8	27.8	6.4	61.13	-230.4	187.9	1,333.9	1,315.5	18.35	72.695		
7,500.0	7,244.3	7,231.1	7,228.7	27.7	6.4	63.78	-230.4	187.8	1,313.4	1,294.8	18.58	70.686		
7,550.0	7,277.4	7,264.3	7,261.9	27.5	6.4	66.58	-230.4	187.6	1,292.2	1,273.3	18.88	68.447		
7,600.0	7,307.8	7,294.8	7,292.4	27.3	6.5	69.47	-230.5	187.5	1,270.5	1,251.3	19.21	66.130		
7,650.0	7,335.4	7,321.7	7,319.3	27.2	6.5	72.38	-230.5	187.4	1,248.7	1,229.1	19.54	63.895		
7,700.0	7,360.0	7,345.4	7,343.0	27.0	6.5	75.25	-230.6	187.3	1,227.0	1,207.1	19.84	61.835		
7,750.0	7,381.6	7,366.2	7,363.8	26.9	6.5	78.03	-230.6	187.2	1,205.7	1,185.6	20.09	60.009		
7,800.0	7,399.9	7,383.9	7,381.6	26.8	6.6	80.65	-230.6	187.1	1,185.2	1,164.9	20.28	58.434		
7,850.0	7,414.9	7,400.0	7,397.6	26.7	6.6	83.13	-230.6	187.0	1,165.6	1,145.2	20.42	57.079		
7,900.0	7,426.6	7,409.8	7,407.4	26.6	6.6	85.20	-230.6	187.0	1,147.4	1,126.9	20.51	55.957		
7,950.0	7,434.9	7,417.9	7,415.5	26.5	6.6	87.03	-230.6	186.9	1,130.8	1,110.2	20.57	54.963		
8,000.0	7,439.7	7,422.6	7,420.2	26.5	6.6	88.53	-230.7	186.9	1,115.9	1,095.2	20.64	54.063		
8,043.8	7,441.0	7,424.0	7,421.6	26.5	6.6	89.55	-230.7	186.8	1,104.4	1,083.7	20.72	53.316		
8,100.0	7,441.0	7,424.0	7,421.6	26.6	6.6	89.55	-230.7	186.8	1,092.2	1,071.3	20.83	52.433		
8,200.0	7,441.0	7,424.2	7,421.8	26.7	6.6	89.56	-230.7	186.8	1,077.2	1,056.0	21.20	50.824		
8,300.0	7,441.0	7,424.3	7,421.9	27.0	6.6	89.57	-230.7	186.8	1,071.5	1,049.7	21.75	49.252		
8,312.0	7,441.0	7,424.3	7,421.9	27.0	6.6	89.57	-230.7	186.8	1,071.4	1,049.5	21.84	49.050		
8,400.0	7,441.0	7,424.5	7,422.1	27.4	6.6	89.58	-230.7	186.8	1,075.0	1,052.5	22.49	47.804		
8,500.0	7,441.0	7,424.6	7,422.2	27.8	6.6	89.58	-230.7	186.8	1,087.8	1,064.4	23.37	46.541		
8,600.0	7,441.0	7,424.7	7,422.3	28.4	6.6	89.59	-230.7	186.8	1,109.4	1,085.0	24.38	45.497		
8,700.0	7,441.0	7,424.9	7,422.5	29.1	6.6	89.60	-230.7	186.8	1,139.5	1,114.0	25.51	44.676		
8,800.0	7,441.0	7,425.0	7,422.6	29.9	6.6	89.60	-230.7	186.8	1,177.3	1,150.6	26.72	44.066		

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 1G-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 1G-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		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	7,441.0	7,425.1	7,422.7	30.8	6.6	89.61	-230.7	186.8	1,222.1	1,194.1	28.00	43.644		
9,000.0	7,441.0	7,425.3	7,422.9	31.7	6.6	89.62	-230.7	186.8	1,273.3	1,243.9	29.35	43.381		
9,100.0	7,441.0	7,425.4	7,423.0	32.7	6.6	89.63	-230.7	186.8	1,330.0	1,299.2	30.75	43.249		
9,200.0	7,441.0	7,425.6	7,423.2	33.8	6.6	89.63	-230.7	186.8	1,391.5	1,359.4	32.19	43.223 SF		
9,300.0	7,441.0	7,425.7	7,423.3	34.9	6.6	89.64	-230.7	186.8	1,457.4	1,423.7	33.67	43.278		
9,400.0	7,441.0	7,425.8	7,423.4	36.1	6.6	89.65	-230.7	186.8	1,527.0	1,491.8	35.19	43.397		
9,500.0	7,441.0	7,426.0	7,423.6	37.3	6.6	89.66	-230.7	186.8	1,599.7	1,563.0	36.72	43.562		
9,600.0	7,441.0	7,426.1	7,423.7	38.6	6.6	89.66	-230.7	186.8	1,675.3	1,637.1	38.28	43.762		
9,700.0	7,441.0	7,426.3	7,423.9	39.9	6.6	89.67	-230.7	186.8	1,753.4	1,713.5	39.86	43.986		
9,800.0	7,441.0	7,426.4	7,424.0	41.2	6.6	89.68	-230.7	186.8	1,833.6	1,792.1	41.46	44.227		
9,900.0	7,441.0	7,426.5	7,424.1	42.6	6.6	89.69	-230.7	186.8	1,915.6	1,872.5	43.07	44.478		
10,000.0	7,441.0	7,426.7	7,424.3	44.0	6.6	89.69	-230.7	186.8	1,999.3	1,954.6	44.69	44.736		
10,100.0	7,441.0	7,426.8	7,424.4	45.4	6.6	89.70	-230.7	186.8	2,084.4	2,038.1	46.33	44.995		
10,200.0	7,441.0	7,427.0	7,424.6	46.9	6.6	89.71	-230.7	186.8	2,170.8	2,122.8	47.97	45.254		
10,300.0	7,441.0	7,427.1	7,424.7	48.4	6.6	89.72	-230.7	186.8	2,258.3	2,208.7	49.62	45.510		
10,400.0	7,441.0	7,427.3	7,424.9	49.8	6.6	89.73	-230.7	186.8	2,346.8	2,295.5	51.28	45.763		
10,500.0	7,441.0	7,427.4	7,425.0	51.3	6.6	89.73	-230.7	186.8	2,436.2	2,383.3	52.95	46.010		
10,600.0	7,441.0	7,427.5	7,425.1	52.9	6.6	89.74	-230.7	186.8	2,526.4	2,471.8	54.62	46.252		
10,700.0	7,441.0	7,427.7	7,425.3	54.4	6.6	89.75	-230.7	186.8	2,617.3	2,561.0	56.30	46.487		
10,800.0	7,441.0	7,427.8	7,425.4	55.9	6.6	89.76	-230.7	186.8	2,708.9	2,650.9	57.99	46.716		
10,900.0	7,441.0	7,428.0	7,425.6	57.5	6.6	89.76	-230.7	186.8	2,801.0	2,741.3	59.67	46.938		
11,000.0	7,441.0	7,428.1	7,425.7	59.1	6.6	89.77	-230.7	186.8	2,893.6	2,832.3	61.37	47.153		
11,100.0	7,441.0	7,428.3	7,425.9	60.7	6.6	89.78	-230.7	186.8	2,986.8	2,923.7	63.06	47.361		
11,200.0	7,441.0	7,428.4	7,426.0	62.2	6.6	89.79	-230.7	186.8	3,080.3	3,015.6	64.76	47.563		
11,300.0	7,441.0	7,428.6	7,426.2	63.8	6.6	89.79	-230.7	186.8	3,174.3	3,107.8	66.47	47.758		
11,400.0	7,441.0	7,428.7	7,426.3	65.4	6.6	89.80	-230.7	186.8	3,268.6	3,200.4	68.17	47.946		
11,500.0	7,441.0	7,428.9	7,426.5	67.1	6.6	89.81	-230.7	186.8	3,363.2	3,293.3	69.88	48.128		
11,600.0	7,441.0	7,429.0	7,426.6	68.7	6.6	89.82	-230.7	186.8	3,458.1	3,386.5	71.59	48.304		
11,700.0	7,441.0	7,429.2	7,426.8	70.3	6.6	89.83	-230.7	186.8	3,553.4	3,480.0	73.30	48.474		
11,800.0	7,441.0	7,429.3	7,426.9	71.9	6.6	89.83	-230.7	186.8	3,648.8	3,573.8	75.02	48.638		
11,900.0	7,441.0	7,429.4	7,427.1	73.6	6.6	89.84	-230.7	186.8	3,744.5	3,667.8	76.74	48.797		
12,000.0	7,441.0	7,429.6	7,427.2	75.2	6.6	89.85	-230.7	186.8	3,840.5	3,762.0	78.46	48.951		
12,100.0	7,441.0	7,429.7	7,427.3	76.9	6.6	89.86	-230.7	186.8	3,936.6	3,856.4	80.18	49.099		
12,135.7	7,441.0	7,429.8	7,427.4	77.5	6.6	89.86	-230.7	186.8	3,970.9	3,890.1	80.79	49.151		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		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	66.84	309.7	723.9	787.5					
100.0	100.0	84.0	84.0	0.2	0.1	66.84	309.7	723.9	787.4	787.1	0.30	2,636.456		
200.0	200.0	184.0	184.0	0.3	0.3	66.84	309.7	723.9	787.4	786.7	0.65	1,215.625		
300.0	300.0	284.0	284.0	0.5	0.5	7.77	309.7	723.9	786.5	785.5	1.00	789.119		
400.0	400.0	384.0	384.0	0.7	0.7	7.80	309.7	723.9	783.9	782.6	1.35	582.641		
500.0	499.9	483.9	483.9	0.9	0.8	7.85	309.7	723.9	779.6	777.9	1.69	460.238		
600.0	599.7	583.7	583.7	1.1	1.0	7.92	309.7	723.9	773.5	771.5	2.04	378.831		
700.0	699.4	683.4	683.4	1.3	1.2	8.01	309.7	723.9	765.8	763.4	2.39	320.477		
800.0	798.9	782.9	782.9	1.5	1.4	8.12	309.7	723.9	756.3	753.6	2.74	276.368		
900.0	898.3	882.3	882.3	1.8	1.5	8.26	309.7	723.9	745.1	742.0	3.08	241.675		
1,000.0	997.4	981.4	981.4	2.0	1.7	8.43	309.7	723.9	732.2	728.7	3.43	213.527		
1,100.0	1,096.3	1,080.3	1,080.3	2.3	1.9	8.62	309.7	723.9	717.5	713.8	3.77	190.111		
1,200.0	1,194.9	1,178.9	1,178.9	2.7	2.1	8.85	309.7	723.9	701.2	697.1	4.12	170.224		
1,300.0	1,293.3	1,277.3	1,277.3	3.0	2.2	9.11	309.7	723.9	683.2	678.8	4.46	153.039		
1,400.0	1,391.2	1,375.2	1,375.2	3.4	2.4	9.42	309.7	723.9	663.5	658.7	4.81	137.964		
1,500.0	1,488.9	1,472.9	1,472.9	3.8	2.6	9.77	309.7	723.9	642.2	637.0	5.16	124.568		
1,600.0	1,586.1	1,570.1	1,570.1	4.2	2.7	10.18	309.7	723.9	619.2	613.7	5.50	112.526		
1,700.0	1,682.9	1,666.9	1,666.9	4.7	2.9	10.65	309.7	723.9	594.5	588.7	5.85	101.590		
1,800.0	1,779.3	1,763.3	1,763.3	5.2	3.1	11.20	309.7	723.9	568.2	562.0	6.21	91.567		
1,900.0	1,875.2	1,859.2	1,859.2	5.7	3.2	11.85	309.7	723.9	540.4	533.8	6.57	82.304		
2,000.0	1,970.8	1,954.8	1,954.8	6.3	3.4	12.52	309.7	723.9	511.7	504.8	6.95	73.658		
2,100.0	2,066.4	2,050.4	2,050.4	6.8	3.6	13.27	309.7	723.9	483.2	475.8	7.34	65.836		
2,200.0	2,162.1	2,146.1	2,146.1	7.3	3.7	14.11	309.7	723.9	454.7	447.0	7.74	58.726		
2,300.0	2,257.7	2,241.7	2,241.7	7.9	3.9	15.07	309.7	723.9	426.3	418.2	8.16	52.235		
2,400.0	2,353.3	2,337.3	2,337.3	8.4	4.1	16.16	309.7	723.9	398.1	389.5	8.60	46.287		
2,500.0	2,448.9	2,432.9	2,432.9	9.0	4.2	17.41	309.7	723.9	370.0	360.9	9.06	40.820		
2,600.0	2,544.6	2,528.6	2,528.6	9.5	4.4	18.87	309.7	723.9	342.1	332.5	9.56	35.782		
2,700.0	2,640.2	2,624.2	2,624.2	10.1	4.6	20.59	309.7	723.9	314.4	304.3	10.10	31.132		
2,800.0	2,735.8	2,719.8	2,719.8	10.6	4.7	22.62	309.7	723.9	287.1	276.4	10.70	26.839		
2,900.0	2,831.5	2,815.5	2,815.5	11.2	4.9	25.08	309.7	723.9	260.1	248.8	11.37	22.881		
3,000.0	2,927.1	2,911.1	2,911.1	11.7	5.1	28.09	309.7	723.9	233.8	221.6	12.15	19.246		
3,100.0	3,022.7	3,006.7	3,006.7	12.2	5.2	31.84	309.7	723.9	208.2	195.1	13.06	15.938		
3,200.0	3,118.4	3,102.4	3,102.4	12.8	5.4	36.59	309.7	723.9	183.6	169.5	14.16	12.971		
3,300.0	3,214.0	3,198.0	3,198.0	13.3	5.6	42.69	309.7	723.9	160.7	145.2	15.48	10.378		
3,400.0	3,309.6	3,293.6	3,293.6	13.9	5.7	50.61	309.7	723.9	140.1	123.0	17.06	8.211		
3,500.0	3,405.3	3,389.3	3,389.3	14.4	5.9	60.84	309.7	723.9	123.1	104.2	18.84	6.533		
3,600.0	3,500.9	3,484.9	3,484.9	15.0	6.1	73.57	309.7	723.9	111.2	90.7	20.56	5.409		
3,700.0	3,596.5	3,580.5	3,580.5	15.5	6.2	88.17	309.7	723.9	106.3	84.6	21.79	4.880		
3,712.1	3,608.1	3,592.1	3,592.1	15.6	6.3	90.00	309.7	723.9	106.3	84.4	21.88	4.857 CC, ES, SF		
3,800.0	3,692.1	3,676.1	3,676.1	16.1	6.4	103.02	309.7	723.9	109.3	87.2	22.16	4.934		
3,900.0	3,787.8	3,771.8	3,771.8	16.7	6.6	116.30	309.7	723.9	119.6	97.9	21.77	5.495		
4,000.0	3,883.4	3,867.4	3,867.4	17.2	6.8	127.14	309.7	723.9	135.6	114.6	21.03	6.448		
4,100.0	3,979.0	3,963.0	3,963.0	17.8	6.9	135.58	309.7	723.9	155.4	135.2	20.25	7.674		
4,200.0	4,074.7	4,058.7	4,058.7	18.3	7.1	142.07	309.7	723.9	177.9	158.3	19.61	9.071		
4,300.0	4,170.3	4,154.3	4,154.3	18.9	7.3	147.11	309.7	723.9	202.1	183.0	19.13	10.563		
4,400.0	4,265.9	4,249.9	4,249.9	19.4	7.4	151.07	309.7	723.9	227.5	208.7	18.81	12.096		
4,500.0	4,361.6	4,345.6	4,345.6	20.0	7.6	154.24	309.7	723.9	253.7	235.1	18.61	13.634		
4,600.0	4,457.2	4,441.2	4,441.2	20.5	7.8	156.82	309.7	723.9	280.5	262.0	18.51	15.153		
4,700.0	4,552.8	4,536.8	4,536.8	21.1	7.9	158.95	309.7	723.9	307.8	289.3	18.49	16.641		
4,800.0	4,648.5	4,632.5	4,632.5	21.6	8.1	160.74	309.7	723.9	335.4	316.8	18.54	18.088		
4,900.0	4,744.1	4,728.1	4,728.1	22.2	8.3	162.25	309.7	723.9	363.2	344.6	18.64	19.490		
5,000.0	4,839.7	4,823.7	4,823.7	22.7	8.4	163.55	309.7	723.9	391.3	372.5	18.77	20.845		

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 1G-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 1G-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		
5,100.0	4,935.3	4,919.3	4,919.3	23.3	8.6	164.68	309.7	723.9	419.5	400.5	18.94	22.153		
5,204.0	5,034.8	5,018.8	5,018.8	23.9	8.8	165.70	309.7	723.9	448.9	429.8	19.13	23.463		
5,300.0	5,126.8	5,110.8	5,110.8	24.4	8.9	166.58	309.7	723.9	475.5	456.2	19.36	24.565		
5,400.0	5,223.2	5,207.2	5,207.2	24.9	9.1	167.35	309.7	723.9	501.7	482.0	19.61	25.580		
5,500.0	5,320.0	5,304.0	5,304.0	25.3	9.3	168.00	309.7	723.9	526.2	506.3	19.88	26.465		
5,600.0	5,417.2	5,401.2	5,401.2	25.8	9.4	168.55	309.7	723.9	549.2	529.0	20.17	27.230		
5,700.0	5,514.8	5,498.8	5,498.8	26.2	9.6	169.03	309.7	723.9	570.5	550.0	20.46	27.879		
5,800.0	5,612.8	5,596.8	5,596.8	26.5	9.8	169.43	309.7	723.9	590.2	569.4	20.76	28.421		
5,900.0	5,711.1	5,695.1	5,695.1	26.9	9.9	169.78	309.7	723.9	608.2	587.1	21.07	28.860		
6,000.0	5,809.7	5,793.7	5,793.7	27.2	10.1	170.08	309.7	723.9	624.5	603.1	21.39	29.202		
6,100.0	5,908.6	5,892.6	5,892.6	27.5	10.3	170.33	309.7	723.9	639.1	617.4	21.70	29.452		
6,200.0	6,007.7	5,991.7	5,991.7	27.8	10.5	170.55	309.7	723.9	652.1	630.0	22.02	29.615		
6,300.0	6,107.1	6,091.1	6,091.1	28.0	10.6	170.73	309.7	723.9	663.3	641.0	22.34	29.697		
6,400.0	6,206.6	6,190.6	6,190.6	28.2	10.8	170.88	309.7	723.9	672.8	650.2	22.65	29.699		
6,500.0	6,306.3	6,290.3	6,290.3	28.4	11.0	170.99	309.7	723.9	680.7	657.7	22.97	29.628		
6,600.0	6,406.1	6,390.1	6,390.1	28.6	11.2	171.08	309.7	723.9	686.7	663.5	23.29	29.485		
6,700.0	6,506.0	6,490.0	6,490.0	28.7	11.3	171.15	309.7	723.9	691.1	667.5	23.61	29.274		
6,800.0	6,606.0	6,590.0	6,590.0	28.8	11.5	171.19	309.7	723.9	693.8	669.9	23.92	28.999		
6,904.0	6,710.0	6,694.0	6,694.0	28.9	11.7	-129.72	309.7	723.9	694.7	670.5	24.25	28.647		
6,918.8	6,724.8	6,708.8	6,708.8	28.9	11.7	-129.72	309.7	723.9	694.7	670.4	24.30	28.587		
6,950.0	6,756.0	6,740.0	6,740.0	28.9	11.8	50.35	309.7	723.9	694.3	669.9	24.35	28.515		
7,000.0	6,805.8	6,789.8	6,789.8	28.9	11.9	50.75	309.7	723.9	691.8	667.4	24.36	28.402		
7,050.0	6,855.2	6,839.2	6,839.2	28.8	11.9	51.52	309.7	723.9	687.1	662.8	24.29	28.285		
7,100.0	6,904.0	6,888.0	6,888.0	28.8	12.0	52.65	309.7	723.9	680.4	656.2	24.18	28.138		
7,150.0	6,952.0	6,936.0	6,936.0	28.7	12.1	54.16	309.7	723.9	671.7	647.6	24.06	27.922		
7,200.0	6,998.8	6,982.8	6,982.8	28.6	12.2	56.04	309.7	723.9	661.2	637.3	23.96	27.592		
7,250.0	7,044.3	7,028.3	7,028.3	28.5	12.3	58.30	309.7	723.9	649.2	625.3	23.95	27.103		
7,300.0	7,088.2	7,072.2	7,072.2	28.3	12.3	60.91	309.7	723.9	636.0	611.9	24.07	26.422		
7,350.0	7,130.4	7,114.4	7,114.4	28.2	12.4	63.87	309.7	723.9	621.8	597.5	24.34	25.551		
7,400.0	7,170.6	7,154.6	7,154.6	28.0	12.5	67.10	309.7	723.9	607.2	582.4	24.75	24.530		
7,450.0	7,208.6	7,192.6	7,192.6	27.8	12.6	70.55	309.7	723.9	592.4	567.2	25.28	23.435		
7,500.0	7,244.3	7,228.3	7,228.3	27.7	12.6	74.12	309.7	723.9	578.2	552.3	25.86	22.356		
7,550.0	7,277.4	7,261.4	7,261.4	27.5	12.7	77.68	309.7	723.9	564.9	538.5	26.42	21.380		
7,600.0	7,307.8	7,291.8	7,291.8	27.3	12.7	81.12	309.7	723.9	553.3	526.4	26.90	20.569		
7,650.0	7,335.4	7,319.4	7,319.4	27.2	12.8	84.30	309.7	723.9	544.0	516.7	27.25	19.964		
7,700.0	7,360.0	7,344.0	7,344.0	27.0	12.8	87.10	309.7	723.9	537.5	510.1	27.45	19.582		
7,750.0	7,381.6	7,365.6	7,365.6	26.9	12.9	89.42	309.7	723.9	534.5	507.0	27.52	19.425		
7,764.6	7,387.3	7,371.3	7,371.3	26.8	12.9	90.00	309.7	723.9	534.3	506.8	27.52	19.417		
7,800.0	7,399.9	7,383.9	7,383.9	26.8	12.9	91.18	309.7	723.9	535.4	507.9	27.48	19.480		
7,850.0	7,414.9	7,398.9	7,398.9	26.7	12.9	92.31	309.7	723.9	540.4	513.0	27.39	19.728		
7,900.0	7,426.6	7,410.6	7,410.6	26.6	12.9	92.76	309.7	723.9	549.8	522.5	27.29	20.143		
7,950.0	7,434.9	7,418.9	7,418.9	26.5	12.9	92.50	309.7	723.9	563.4	536.2	27.22	20.696		
8,000.0	7,439.7	7,423.7	7,423.7	26.5	13.0	91.50	309.7	723.9	581.1	553.9	27.20	21.367		
8,043.8	7,441.0	7,425.0	7,425.0	26.5	13.0	90.00	309.7	723.9	599.7	572.5	27.21	22.042		
8,100.0	7,441.0	7,425.0	7,425.0	26.6	13.0	90.00	309.7	723.9	627.2	599.8	27.32	22.956		
8,200.0	7,441.0	7,425.0	7,425.0	26.7	13.0	90.00	309.7	723.9	684.8	657.2	27.69	24.737		
8,300.0	7,441.0	7,425.0	7,425.0	27.0	13.0	90.00	309.7	723.9	751.5	723.2	28.24	26.606		
8,400.0	7,441.0	7,425.0	7,425.0	27.4	13.0	90.00	309.7	723.9	824.8	795.9	28.98	28.466		
8,500.0	7,441.0	7,425.0	7,425.0	27.8	13.0	90.00	309.7	723.9	903.3	873.5	29.86	30.253		
8,600.0	7,441.0	7,425.0	7,425.0	28.4	13.0	90.00	309.7	723.9	985.8	954.9	30.87	31.931		
8,700.0	7,441.0	7,425.0	7,425.0	29.1	13.0	90.00	309.7	723.9	1,071.2	1,039.2	31.99	33.482		
8,800.0	7,441.0	7,425.0	7,425.0	29.9	13.0	90.00	309.7	723.9	1,158.9	1,125.7	33.20	34.904		

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 1G-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 1G-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		
8,900.0	7,441.0	7,425.0	7,425.0	30.8	13.0	90.00	309.7	723.9	1,248.5	1,214.0	34.49	36.201		
9,000.0	7,441.0	7,425.0	7,425.0	31.7	13.0	90.00	309.7	723.9	1,339.6	1,303.7	35.84	37.381		
9,100.0	7,441.0	7,425.0	7,425.0	32.7	13.0	90.00	309.7	723.9	1,431.8	1,394.6	37.23	38.453		
9,200.0	7,441.0	7,425.0	7,425.0	33.8	13.0	90.00	309.7	723.9	1,525.0	1,486.4	38.68	39.429		
9,300.0	7,441.0	7,425.0	7,425.0	34.9	13.0	90.00	309.7	723.9	1,619.1	1,578.9	40.16	40.318		
9,400.0	7,441.0	7,425.0	7,425.0	36.1	13.0	90.00	309.7	723.9	1,713.8	1,672.1	41.67	41.129		
9,500.0	7,441.0	7,425.0	7,425.0	37.3	13.0	90.00	309.7	723.9	1,809.1	1,765.9	43.21	41.872		
9,600.0	7,441.0	7,425.0	7,425.0	38.6	13.0	90.00	309.7	723.9	1,904.9	1,860.1	44.76	42.552		
9,700.0	7,441.0	7,425.0	7,425.0	39.9	13.0	90.00	309.7	723.9	2,001.0	1,954.7	46.34	43.178		
9,800.0	7,441.0	7,425.0	7,425.0	41.2	13.0	90.00	309.7	723.9	2,097.6	2,049.6	47.94	43.755		
9,900.0	7,441.0	7,425.0	7,425.0	42.6	13.0	90.00	309.7	723.9	2,194.4	2,144.9	49.55	44.288		
10,000.0	7,441.0	7,425.0	7,425.0	44.0	13.0	90.00	309.7	723.9	2,291.5	2,240.4	51.17	44.781		
10,100.0	7,441.0	7,425.0	7,425.0	45.4	13.0	90.00	309.7	723.9	2,388.9	2,336.1	52.81	45.240		
10,200.0	7,441.0	7,425.0	7,425.0	46.9	13.0	90.00	309.7	723.9	2,486.5	2,432.0	54.45	45.666		
10,300.0	7,441.0	7,425.0	7,425.0	48.4	13.0	90.00	309.7	723.9	2,584.2	2,528.1	56.10	46.063		
10,400.0	7,441.0	7,425.0	7,425.0	49.8	13.0	90.00	309.7	723.9	2,682.1	2,624.4	57.76	46.435		
10,500.0	7,441.0	7,425.0	7,425.0	51.3	13.0	90.00	309.7	723.9	2,780.2	2,720.8	59.43	46.782		
10,600.0	7,441.0	7,425.0	7,425.0	52.9	13.0	90.00	309.7	723.9	2,878.4	2,817.3	61.10	47.109		
10,700.0	7,441.0	7,425.0	7,425.0	54.4	13.0	90.00	309.7	723.9	2,976.7	2,913.9	62.78	47.415		
10,800.0	7,441.0	7,425.0	7,425.0	55.9	13.0	90.00	309.7	723.9	3,075.2	3,010.7	64.46	47.703		
10,900.0	7,441.0	7,425.0	7,425.0	57.5	13.0	90.00	309.7	723.9	3,173.7	3,107.5	66.15	47.975		
11,000.0	7,441.0	7,425.0	7,425.0	59.1	13.0	90.00	309.7	723.9	3,272.3	3,204.4	67.84	48.232		
11,100.0	7,441.0	7,425.0	7,425.0	60.7	13.0	90.00	309.7	723.9	3,371.0	3,301.4	69.54	48.475		
11,200.0	7,441.0	7,425.0	7,425.0	62.2	13.0	90.00	309.7	723.9	3,469.8	3,398.5	71.24	48.705		
11,300.0	7,441.0	7,425.0	7,425.0	63.8	13.0	90.00	309.7	723.9	3,568.6	3,495.7	72.94	48.923		
11,400.0	7,441.0	7,425.0	7,425.0	65.4	13.0	90.00	309.7	723.9	3,667.5	3,592.9	74.65	49.130		
11,500.0	7,441.0	7,425.0	7,425.0	67.1	13.0	90.00	309.7	723.9	3,766.5	3,690.1	76.36	49.327		
11,600.0	7,441.0	7,425.0	7,425.0	68.7	13.0	90.00	309.7	723.9	3,865.5	3,787.4	78.07	49.515		
11,700.0	7,441.0	7,425.0	7,425.0	70.3	13.0	90.00	309.7	723.9	3,964.5	3,884.8	79.78	49.693		
11,800.0	7,441.0	7,425.0	7,425.0	71.9	13.0	90.00	309.7	723.9	4,063.7	3,982.2	81.50	49.864		
11,900.0	7,441.0	7,425.0	7,425.0	73.6	13.0	90.00	309.7	723.9	4,162.8	4,079.6	83.21	50.026		
12,000.0	7,441.0	7,425.0	7,425.0	75.2	13.0	90.00	309.7	723.9	4,262.0	4,177.1	84.93	50.182		
12,100.0	7,441.0	7,425.0	7,425.0	76.9	13.0	90.00	309.7	723.9	4,361.2	4,274.6	86.65	50.331		
12,135.7	7,441.0	7,425.0	7,425.0	77.5	13.0	90.00	309.7	723.9	4,396.6	4,309.4	87.27	50.382		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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	164.56	-2,363.0	652.7	2,451.6					
100.0	100.0	84.0	84.0	0.2	0.1	164.56	-2,363.0	652.7	2,451.5	2,451.2	0.30	8,213.260		
200.0	200.0	184.0	184.0	0.3	0.3	164.56	-2,363.0	652.7	2,451.5	2,450.9	0.65	3,786.033		
300.0	300.0	284.0	284.0	0.5	0.5	105.50	-2,363.0	652.7	2,451.8	2,450.8	1.00	2,458.079		
400.0	400.0	384.0	384.0	0.7	0.7	105.55	-2,363.0	652.7	2,452.5	2,451.1	1.35	1,814.937		
500.0	499.9	483.9	483.9	0.9	0.8	105.64	-2,363.0	652.7	2,453.6	2,451.9	1.71	1,432.830		
600.0	599.7	583.7	583.7	1.1	1.0	105.76	-2,363.0	652.7	2,455.3	2,453.2	2.08	1,178.045		
700.0	699.4	683.4	683.4	1.3	1.2	105.91	-2,363.0	652.7	2,457.4	2,455.0	2.47	995.103		
800.0	798.9	782.9	782.9	1.5	1.4	106.10	-2,363.0	652.7	2,460.1	2,457.2	2.87	856.879		
900.0	898.3	882.3	882.3	1.8	1.5	106.32	-2,363.0	652.7	2,463.3	2,460.0	3.29	748.538		
1,000.0	997.4	981.4	981.4	2.0	1.7	106.57	-2,363.0	652.7	2,467.0	2,463.3	3.73	661.275		
1,100.0	1,096.3	1,080.3	1,080.3	2.3	1.9	106.86	-2,363.0	652.7	2,471.3	2,467.1	4.19	589.516		
1,200.0	1,194.9	1,178.9	1,178.9	2.7	2.1	107.17	-2,363.0	652.7	2,476.2	2,471.5	4.68	529.545		
1,300.0	1,293.3	1,277.3	1,277.3	3.0	2.2	107.51	-2,363.0	652.7	2,481.7	2,476.5	5.18	478.778		
1,400.0	1,391.2	1,375.2	1,375.2	3.4	2.4	107.89	-2,363.0	652.7	2,487.9	2,482.2	5.71	435.353		
1,500.0	1,488.9	1,472.9	1,472.9	3.8	2.6	108.28	-2,363.0	652.7	2,494.7	2,488.5	6.27	397.884		
1,600.0	1,586.1	1,570.1	1,570.1	4.2	2.7	108.71	-2,363.0	652.7	2,502.3	2,495.5	6.85	365.319		
1,700.0	1,682.9	1,666.9	1,666.9	4.7	2.9	109.15	-2,363.0	652.7	2,510.7	2,503.2	7.45	336.837		
1,800.0	1,779.3	1,763.3	1,763.3	5.2	3.1	109.62	-2,363.0	652.7	2,519.9	2,511.8	8.08	311.792		
1,900.0	1,875.2	1,859.2	1,859.2	5.7	3.2	110.11	-2,363.0	652.7	2,529.9	2,521.1	8.73	289.662		
2,000.0	1,970.8	1,954.8	1,954.8	6.3	3.4	110.71	-2,363.0	652.7	2,540.5	2,531.1	9.39	270.680		
2,100.0	2,066.4	2,050.4	2,050.4	6.8	3.6	111.30	-2,363.0	652.7	2,551.4	2,541.3	10.04	254.203		
2,200.0	2,162.1	2,146.1	2,146.1	7.3	3.7	111.88	-2,363.0	652.7	2,562.5	2,551.9	10.69	239.790		
2,300.0	2,257.7	2,241.7	2,241.7	7.9	3.9	112.47	-2,363.0	652.7	2,574.0	2,562.7	11.33	227.094		
2,400.0	2,353.3	2,337.3	2,337.3	8.4	4.1	113.04	-2,363.0	652.7	2,585.7	2,573.8	11.98	215.838		
2,500.0	2,448.9	2,432.9	2,432.9	9.0	4.2	113.61	-2,363.0	652.7	2,597.8	2,585.1	12.62	205.801		
2,600.0	2,544.6	2,528.6	2,528.6	9.5	4.4	114.18	-2,363.0	652.7	2,610.1	2,596.8	13.26	196.803		
2,700.0	2,640.2	2,624.2	2,624.2	10.1	4.6	114.74	-2,363.0	652.7	2,622.6	2,608.7	13.90	188.699		
2,800.0	2,735.8	2,719.8	2,719.8	10.6	4.7	115.30	-2,363.0	652.7	2,635.4	2,620.9	14.53	181.367		
2,900.0	2,831.5	2,815.5	2,815.5	11.2	4.9	115.85	-2,363.0	652.7	2,648.5	2,633.4	15.16	174.707		
3,000.0	2,927.1	2,911.1	2,911.1	11.7	5.1	116.40	-2,363.0	652.7	2,661.9	2,646.1	15.78	168.636		
3,100.0	3,022.7	3,006.7	3,006.7	12.2	5.2	116.94	-2,363.0	652.7	2,675.5	2,659.1	16.41	163.083		
3,200.0	3,118.4	3,102.4	3,102.4	12.8	5.4	117.47	-2,363.0	652.7	2,689.3	2,672.3	17.02	157.987		
3,300.0	3,214.0	3,198.0	3,198.0	13.3	5.6	118.01	-2,363.0	652.7	2,703.4	2,685.8	17.63	153.298		
3,400.0	3,309.6	3,293.6	3,293.6	13.9	5.7	118.53	-2,363.0	652.7	2,717.7	2,699.5	18.24	148.972		
3,500.0	3,405.3	3,389.3	3,389.3	14.4	5.9	119.05	-2,363.0	652.7	2,732.3	2,713.4	18.85	144.971		
3,600.0	3,500.9	3,484.9	3,484.9	15.0	6.1	119.57	-2,363.0	652.7	2,747.1	2,727.7	19.45	141.262		
3,700.0	3,596.5	3,580.5	3,580.5	15.5	6.2	120.08	-2,363.0	652.7	2,762.1	2,742.1	20.04	137.817		
3,800.0	3,692.1	3,676.1	3,676.1	16.1	6.4	120.58	-2,363.0	652.7	2,777.4	2,756.8	20.63	134.610		
3,900.0	3,787.8	3,771.8	3,771.8	16.7	6.6	121.08	-2,363.0	652.7	2,792.9	2,771.7	21.22	131.620		
4,000.0	3,883.4	3,867.4	3,867.4	17.2	6.7	121.58	-2,363.0	652.7	2,808.6	2,786.8	21.80	128.826		
4,100.0	3,979.0	3,963.0	3,963.0	17.8	6.9	122.07	-2,363.0	652.7	2,824.5	2,802.1	22.38	126.213		
4,200.0	4,074.7	4,058.7	4,058.7	18.3	7.1	122.55	-2,363.0	652.7	2,840.6	2,817.7	22.95	123.764		
4,300.0	4,170.3	4,154.3	4,154.3	18.9	7.3	123.03	-2,363.0	652.7	2,856.9	2,833.4	23.52	121.466		
4,400.0	4,265.9	4,249.9	4,249.9	19.4	7.4	123.51	-2,363.0	652.7	2,873.5	2,849.4	24.08	119.308		
4,500.0	4,361.6	4,345.6	4,345.6	20.0	7.6	123.97	-2,363.0	652.7	2,890.2	2,865.6	24.64	117.277		
4,600.0	4,457.2	4,441.2	4,441.2	20.5	7.8	124.44	-2,363.0	652.7	2,907.2	2,882.0	25.20	115.364		
4,700.0	4,552.8	4,536.8	4,536.8	21.1	7.9	124.90	-2,363.0	652.7	2,924.3	2,898.6	25.75	113.560		
4,800.0	4,648.5	4,632.5	4,632.5	21.6	8.1	125.35	-2,363.0	652.7	2,941.6	2,915.3	26.30	111.858		
4,900.0	4,744.1	4,728.1	4,728.1	22.2	8.3	125.80	-2,363.0	652.7	2,959.1	2,932.3	26.84	110.250		
5,000.0	4,839.7	4,823.7	4,823.7	22.7	8.4	126.24	-2,363.0	652.7	2,976.8	2,949.5	27.38	108.729		
5,100.0	4,935.3	4,919.3	4,919.3	23.3	8.6	126.68	-2,363.0	652.7	2,994.7	2,966.8	27.91	107.290		

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 1G-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 1G-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		
5,204.0	5,034.8	5,018.8	5,018.8	23.9	8.8	127.13	-2,363.0	652.7	3,013.5	2,985.0	28.46	105.873		
5,300.0	5,126.8	5,110.8	5,110.8	24.4	8.9	127.67	-2,363.0	652.7	3,030.5	3,001.6	28.93	104.748		
5,400.0	5,223.2	5,207.2	5,207.2	24.9	9.1	128.19	-2,363.0	652.7	3,047.4	3,018.0	29.40	103.655		
5,500.0	5,320.0	5,304.0	5,304.0	25.3	9.3	128.68	-2,363.0	652.7	3,063.3	3,033.4	29.85	102.629		
5,600.0	5,417.2	5,401.2	5,401.2	25.8	9.4	129.13	-2,363.0	652.7	3,078.2	3,048.0	30.28	101.662		
5,700.0	5,514.8	5,498.8	5,498.8	26.2	9.6	129.55	-2,363.0	652.7	3,092.2	3,061.5	30.69	100.745		
5,800.0	5,612.8	5,596.8	5,596.8	26.5	9.8	129.93	-2,363.0	652.7	3,105.1	3,074.1	31.09	99.872		
5,900.0	5,711.1	5,695.1	5,695.1	26.9	9.9	130.28	-2,363.0	652.7	3,117.0	3,085.6	31.47	99.037		
6,000.0	5,809.7	5,793.7	5,793.7	27.2	10.1	130.59	-2,363.0	652.7	3,127.9	3,096.0	31.84	98.233		
6,100.0	5,908.6	5,892.6	5,892.6	27.5	10.3	130.87	-2,363.0	652.7	3,137.6	3,105.4	32.19	97.457		
6,200.0	6,007.7	5,991.7	5,991.7	27.8	10.5	131.12	-2,363.0	652.7	3,146.3	3,113.7	32.53	96.705		
6,300.0	6,107.1	6,091.1	6,091.1	28.0	10.6	131.33	-2,363.0	652.7	3,153.8	3,121.0	32.86	95.972		
6,400.0	6,206.6	6,190.6	6,190.6	28.2	10.8	131.51	-2,363.0	652.7	3,160.2	3,127.0	33.18	95.256		
6,500.0	6,306.3	6,290.3	6,290.3	28.4	11.0	131.65	-2,363.0	652.7	3,165.5	3,132.0	33.48	94.554		
6,600.0	6,406.1	6,390.1	6,390.1	28.6	11.2	131.77	-2,363.0	652.7	3,169.6	3,135.8	33.77	93.864		
6,700.0	6,506.0	6,490.0	6,490.0	28.7	11.3	131.85	-2,363.0	652.7	3,172.5	3,138.5	34.05	93.183		
6,800.0	6,606.0	6,590.0	6,590.0	28.8	11.5	131.90	-2,363.0	652.7	3,174.3	3,140.0	34.31	92.510		
6,904.0	6,710.0	6,694.0	6,694.0	28.9	11.7	-169.00	-2,363.0	652.7	3,175.0	3,140.4	34.58	91.816		
6,918.8	6,724.8	6,708.8	6,708.8	28.9	11.7	-169.00	-2,363.0	652.7	3,175.0	3,140.4	34.62	91.712		
6,950.0	6,756.0	6,740.0	6,740.0	28.9	11.8	11.00	-2,363.0	652.7	3,174.3	3,139.7	34.65	91.617		
7,000.0	6,805.8	6,789.8	6,789.8	28.9	11.9	11.08	-2,363.0	652.7	3,170.5	3,135.9	34.57	91.711		
7,050.0	6,855.2	6,839.2	6,839.2	28.8	11.9	11.22	-2,363.0	652.7	3,163.2	3,128.9	34.34	92.119		
7,100.0	6,904.0	6,888.0	6,888.0	28.8	12.0	11.43	-2,363.0	652.7	3,152.6	3,118.6	33.95	92.849		
7,150.0	6,952.0	6,936.0	6,936.0	28.7	12.1	11.71	-2,363.0	652.7	3,138.7	3,105.3	33.42	93.916		
7,200.0	6,998.8	6,982.8	6,982.8	28.6	12.2	12.08	-2,363.0	652.7	3,121.5	3,088.8	32.74	95.339		
7,250.0	7,044.3	7,028.3	7,028.3	28.5	12.3	12.54	-2,363.0	652.7	3,101.2	3,069.3	31.92	97.143		
7,300.0	7,088.2	7,072.2	7,072.2	28.3	12.3	13.11	-2,363.0	652.7	3,077.8	3,046.8	30.98	99.357		
7,350.0	7,130.4	7,114.4	7,114.4	28.2	12.4	13.80	-2,363.0	652.7	3,051.5	3,021.6	29.91	102.014		
7,400.0	7,170.6	7,154.6	7,154.6	28.0	12.5	14.64	-2,363.0	652.7	3,022.3	2,993.6	28.74	105.148		
7,450.0	7,208.6	7,192.6	7,192.6	27.8	12.6	15.66	-2,363.0	652.7	2,990.5	2,963.0	27.49	108.784		
7,500.0	7,244.3	7,228.3	7,228.3	27.7	12.6	16.90	-2,363.0	652.7	2,956.2	2,930.1	26.18	112.926		
7,550.0	7,277.4	7,261.4	7,261.4	27.5	12.7	18.43	-2,363.0	652.7	2,919.6	2,894.8	24.84	117.528		
7,600.0	7,307.8	7,291.8	7,291.8	27.3	12.7	20.31	-2,363.0	652.7	2,880.8	2,857.3	23.53	122.437		
7,650.0	7,335.4	7,319.4	7,319.4	27.2	12.8	22.66	-2,363.0	652.7	2,840.1	2,817.8	22.31	127.309		
7,700.0	7,360.0	7,344.0	7,344.0	27.0	12.8	25.64	-2,363.0	652.7	2,797.6	2,776.3	21.28	131.462		
7,750.0	7,381.6	7,365.6	7,365.6	26.9	12.9	29.47	-2,363.0	652.7	2,753.6	2,733.0	20.59	133.744		
7,800.0	7,399.9	7,383.9	7,383.9	26.8	12.9	34.48	-2,363.0	652.7	2,708.2	2,687.8	20.42	132.625		
7,850.0	7,414.9	7,398.9	7,398.9	26.7	12.9	41.14	-2,363.0	652.7	2,661.8	2,640.8	20.98	126.892		
7,900.0	7,426.6	7,410.6	7,410.6	26.6	12.9	50.03	-2,363.0	652.7	2,614.5	2,592.1	22.36	116.936		
7,950.0	7,434.9	7,418.9	7,418.9	26.5	12.9	61.71	-2,363.0	652.7	2,566.5	2,542.2	24.36	105.355		
8,000.0	7,439.7	7,423.7	7,423.7	26.5	13.0	76.13	-2,363.0	652.7	2,518.2	2,491.9	26.29	95.770		
8,043.8	7,441.0	7,425.0	7,425.0	26.5	13.0	90.00	-2,363.0	652.7	2,475.7	2,448.5	27.21	90.998		
8,100.0	7,441.0	7,425.0	7,425.0	26.6	13.0	90.00	-2,363.0	652.7	2,421.3	2,393.9	27.32	88.626		
8,200.0	7,441.0	7,425.0	7,425.0	26.7	13.0	90.00	-2,363.0	652.7	2,324.6	2,296.9	27.69	83.965		
8,300.0	7,441.0	7,425.0	7,425.0	27.0	13.0	90.00	-2,363.0	652.7	2,228.2	2,199.9	28.24	78.891		
8,400.0	7,441.0	7,425.0	7,425.0	27.4	13.0	90.00	-2,363.0	652.7	2,132.1	2,103.1	28.98	73.581		
8,500.0	7,441.0	7,425.0	7,425.0	27.8	13.0	90.00	-2,363.0	652.7	2,036.4	2,006.6	29.86	68.200		
8,600.0	7,441.0	7,425.0	7,425.0	28.4	13.0	90.00	-2,363.0	652.7	1,941.2	1,910.3	30.87	62.879		
8,700.0	7,441.0	7,425.0	7,425.0	29.1	13.0	90.00	-2,363.0	652.7	1,846.4	1,814.4	31.99	57.716		
8,800.0	7,441.0	7,425.0	7,425.0	29.9	13.0	90.00	-2,363.0	652.7	1,752.3	1,719.1	33.20	52.775		
8,900.0	7,441.0	7,425.0	7,425.0	30.8	13.0	90.00	-2,363.0	652.7	1,658.8	1,624.3	34.49	48.098		
9,000.0	7,441.0	7,425.0	7,425.0	31.7	13.0	90.00	-2,363.0	652.7	1,566.1	1,530.3	35.84	43.703		

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 1G-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 1G-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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		
9,100.0	7,441.0	7,425.0	7,425.0	32.7	13.0	90.00	-2,363.0	652.7	1,474.4	1,437.1	37.23	39.597			
9,200.0	7,441.0	7,425.0	7,425.0	33.8	13.0	90.00	-2,363.0	652.7	1,383.8	1,345.1	38.68	35.778			
9,300.0	7,441.0	7,425.0	7,425.0	34.9	13.0	90.00	-2,363.0	652.7	1,294.6	1,254.5	40.16	32.238			
9,400.0	7,441.0	7,425.0	7,425.0	36.1	13.0	90.00	-2,363.0	652.7	1,207.1	1,165.5	41.67	28.970			
9,500.0	7,441.0	7,425.0	7,425.0	37.3	13.0	90.00	-2,363.0	652.7	1,121.7	1,078.5	43.21	25.963			
9,600.0	7,441.0	7,425.0	7,425.0	38.6	13.0	90.00	-2,363.0	652.7	1,039.0	994.2	44.76	23.209			
9,700.0	7,441.0	7,425.0	7,425.0	39.9	13.0	90.00	-2,363.0	652.7	959.5	913.1	46.34	20.703			
9,800.0	7,441.0	7,425.0	7,425.0	41.2	13.0	90.00	-2,363.0	652.7	884.1	836.2	47.94	18.443			
9,900.0	7,441.0	7,425.0	7,425.0	42.6	13.0	90.00	-2,363.0	652.7	814.1	764.6	49.55	16.431			
10,000.0	7,441.0	7,425.0	7,425.0	44.0	13.0	90.00	-2,363.0	652.7	751.0	699.8	51.17	14.675			
10,100.0	7,441.0	7,425.0	7,425.0	45.4	13.0	90.00	-2,363.0	652.7	696.5	643.7	52.81	13.189			
10,200.0	7,441.0	7,425.0	7,425.0	46.9	13.0	90.00	-2,363.0	652.7	652.8	598.4	54.45	11.990			
10,300.0	7,441.0	7,425.0	7,425.0	48.4	13.0	90.00	-2,363.0	652.7	622.3	566.2	56.10	11.093			
10,400.0	7,441.0	7,425.0	7,425.0	49.8	13.0	90.00	-2,363.0	652.7	607.0	549.2	57.76	10.509			
10,444.4	7,441.0	7,425.0	7,425.0	50.5	13.0	90.00	-2,363.0	652.7	605.4	546.9	58.50	10.348 CC, ES			
10,500.0	7,441.0	7,425.0	7,425.0	51.3	13.0	90.00	-2,363.0	652.7	607.9	548.5	59.43	10.230 SF			
10,600.0	7,441.0	7,425.0	7,425.0	52.9	13.0	90.00	-2,363.0	652.7	625.1	564.0	61.10	10.230			
10,700.0	7,441.0	7,425.0	7,425.0	54.4	13.0	90.00	-2,363.0	652.7	657.1	594.4	62.78	10.467			
10,800.0	7,441.0	7,425.0	7,425.0	55.9	13.0	90.00	-2,363.0	652.7	702.1	637.6	64.46	10.891			
10,900.0	7,441.0	7,425.0	7,425.0	57.5	13.0	90.00	-2,363.0	652.7	757.7	691.5	66.15	11.454			
11,000.0	7,441.0	7,425.0	7,425.0	59.1	13.0	90.00	-2,363.0	652.7	821.7	753.9	67.84	12.112			
11,100.0	7,441.0	7,425.0	7,425.0	60.7	13.0	90.00	-2,363.0	652.7	892.4	822.8	69.54	12.832			
11,200.0	7,441.0	7,425.0	7,425.0	62.2	13.0	90.00	-2,363.0	652.7	968.2	897.0	71.24	13.591			
11,300.0	7,441.0	7,425.0	7,425.0	63.8	13.0	90.00	-2,363.0	652.7	1,048.1	975.2	72.94	14.369			
11,400.0	7,441.0	7,425.0	7,425.0	65.4	13.0	90.00	-2,363.0	652.7	1,131.2	1,056.6	74.65	15.154			
11,500.0	7,441.0	7,425.0	7,425.0	67.1	13.0	90.00	-2,363.0	652.7	1,216.9	1,140.5	76.36	15.937			
11,600.0	7,441.0	7,425.0	7,425.0	68.7	13.0	90.00	-2,363.0	652.7	1,304.6	1,226.5	78.07	16.711			
11,700.0	7,441.0	7,425.0	7,425.0	70.3	13.0	90.00	-2,363.0	652.7	1,393.9	1,314.2	79.78	17.472			
11,800.0	7,441.0	7,425.0	7,425.0	71.9	13.0	90.00	-2,363.0	652.7	1,484.7	1,403.2	81.50	18.218			
11,900.0	7,441.0	7,425.0	7,425.0	73.6	13.0	90.00	-2,363.0	652.7	1,576.5	1,493.3	83.21	18.946			
12,000.0	7,441.0	7,425.0	7,425.0	75.2	13.0	90.00	-2,363.0	652.7	1,669.3	1,584.3	84.93	19.654			
12,100.0	7,441.0	7,425.0	7,425.0	76.9	13.0	90.00	-2,363.0	652.7	1,762.8	1,676.2	86.65	20.344			
12,135.7	7,441.0	7,425.0	7,425.0	77.5	13.0	90.00	-2,363.0	652.7	1,796.4	1,709.1	87.27	20.585			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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	170.75	-4,061.0	661.7	4,114.5					
100.0	100.0	104.7	104.7	0.2	0.1	170.74	-4,060.9	662.3	4,114.5	4,114.3	0.24	N/A		
200.0	200.0	228.8	228.8	0.3	0.2	170.72	-4,060.3	663.3	4,114.2	4,113.6	0.53	7,812.844		
300.0	300.0	335.0	335.0	0.5	0.3	111.65	-4,059.5	664.0	4,113.9	4,113.1	0.80	5,174.191		
347.6	347.6	391.7	391.7	0.6	0.3	111.66	-4,059.0	664.3	4,113.9	4,112.9	0.93	4,424.339		
400.0	400.0	449.9	449.9	0.7	0.4	111.67	-4,058.3	664.6	4,113.9	4,112.8	1.07	3,828.155		
500.0	499.9	564.9	564.9	0.9	0.5	111.72	-4,056.7	665.4	4,114.3	4,112.9	1.36	3,021.439		
600.0	599.7	689.3	689.2	1.1	0.6	111.79	-4,054.3	667.0	4,114.8	4,113.1	1.67	2,467.408		
700.0	699.4	790.0	789.9	1.3	0.7	111.85	-4,051.9	668.8	4,115.6	4,113.7	1.97	2,093.041		
800.0	798.9	866.1	866.0	1.5	0.8	111.91	-4,050.2	670.2	4,117.4	4,115.1	2.26	1,823.124		
900.0	898.3	956.4	956.3	1.8	0.8	111.99	-4,048.8	671.8	4,120.3	4,117.7	2.58	1,596.224		
1,000.0	997.4	1,047.1	1,046.9	2.0	0.9	112.07	-4,047.3	673.8	4,124.0	4,121.1	2.92	1,410.305		
1,100.0	1,096.3	1,144.6	1,144.3	2.3	1.0	112.19	-4,046.1	675.8	4,128.7	4,125.4	3.29	1,253.430		
1,200.0	1,194.9	1,255.2	1,254.9	2.7	1.1	112.35	-4,044.4	677.6	4,133.7	4,130.0	3.70	1,117.976		
1,300.0	1,293.3	1,355.7	1,355.4	3.0	1.2	112.50	-4,042.8	679.3	4,139.4	4,135.3	4.12	1,005.833		
1,400.0	1,391.2	1,445.5	1,445.2	3.4	1.3	112.65	-4,041.4	680.5	4,145.8	4,141.3	4.55	911.602		
1,500.0	1,488.9	1,541.3	1,541.0	3.8	1.4	112.83	-4,040.3	681.6	4,153.3	4,148.3	5.01	829.022		
1,600.0	1,586.1	1,641.8	1,641.4	4.2	1.5	113.04	-4,038.8	682.7	4,161.3	4,155.8	5.50	756.463		
1,700.0	1,682.9	1,731.9	1,731.6	4.7	1.5	113.23	-4,037.8	683.6	4,170.4	4,164.4	6.01	694.063		
1,800.0	1,779.3	1,846.9	1,846.5	5.2	1.6	113.52	-4,036.1	684.2	4,179.9	4,173.3	6.56	637.041		
1,900.0	1,875.2	1,934.9	1,934.5	5.7	1.7	113.73	-4,034.8	684.4	4,190.2	4,183.1	7.12	588.693		
2,000.0	1,970.8	2,021.2	2,020.8	6.3	1.8	114.05	-4,033.8	684.2	4,201.3	4,193.6	7.67	547.568		
2,100.0	2,066.4	2,100.0	2,099.6	6.8	1.9	114.34	-4,033.1	683.8	4,212.8	4,204.5	8.22	512.324		
2,200.0	2,162.1	2,165.8	2,165.5	7.3	1.9	114.59	-4,032.9	683.4	4,225.0	4,216.2	8.76	482.071		
2,300.0	2,257.7	2,266.2	2,265.9	7.9	2.0	114.96	-4,033.2	682.7	4,237.9	4,228.6	9.33	454.190		
2,400.0	2,353.3	2,372.3	2,371.9	8.4	2.1	115.35	-4,032.9	682.2	4,250.5	4,240.6	9.90	429.328		
2,500.0	2,448.9	2,456.6	2,456.2	9.0	2.2	115.66	-4,032.8	681.8	4,263.3	4,252.8	10.45	407.816		
2,600.0	2,544.6	2,543.6	2,543.2	9.5	2.2	115.97	-4,032.8	681.7	4,276.6	4,265.6	11.01	388.475		
2,700.0	2,640.2	2,643.2	2,642.8	10.1	2.3	116.32	-4,033.0	681.7	4,290.1	4,278.5	11.57	370.781		
2,800.0	2,735.8	2,750.3	2,749.9	10.6	2.4	116.70	-4,032.9	681.8	4,303.5	4,291.4	12.14	354.630		
2,900.0	2,831.5	2,882.8	2,882.4	11.2	2.5	117.16	-4,032.2	682.2	4,316.7	4,304.0	12.71	339.509		
3,000.0	2,927.1	2,969.9	2,969.5	11.7	2.6	117.45	-4,031.2	682.5	4,329.5	4,316.3	13.26	326.455		
3,100.0	3,022.7	3,068.3	3,067.9	12.2	2.7	117.80	-4,030.4	682.1	4,342.7	4,328.9	13.81	314.377		
3,200.0	3,118.4	3,177.6	3,177.2	12.8	2.8	118.19	-4,029.3	680.9	4,355.8	4,341.5	14.37	303.157		
3,300.0	3,214.0	3,274.0	3,273.6	13.3	2.9	118.53	-4,028.1	679.7	4,368.9	4,354.0	14.91	292.972		
3,400.0	3,309.6	3,359.9	3,359.4	13.9	3.0	118.84	-4,027.1	678.5	4,382.2	4,366.8	15.45	283.671		
3,500.0	3,405.3	3,445.7	3,445.2	14.4	3.0	119.14	-4,026.4	677.2	4,396.0	4,380.0	15.98	275.060		
3,600.0	3,500.9	3,533.5	3,533.0	15.0	3.1	119.45	-4,025.8	675.9	4,410.0	4,393.5	16.51	267.045		
3,700.0	3,596.5	3,622.0	3,621.5	15.5	3.2	119.76	-4,025.3	674.6	4,424.4	4,407.4	17.04	259.582		
3,800.0	3,692.1	3,713.5	3,713.0	16.1	3.3	120.09	-4,024.9	673.1	4,439.1	4,421.5	17.57	252.601		
3,900.0	3,787.8	3,800.0	3,799.5	16.7	3.3	120.39	-4,024.8	671.5	4,454.1	4,436.0	18.10	246.119		
4,000.0	3,883.4	3,894.6	3,894.0	17.2	3.4	120.71	-4,024.7	670.5	4,469.4	4,450.8	18.62	239.984		
4,100.0	3,979.0	3,990.1	3,989.6	17.8	3.5	121.02	-4,024.6	670.6	4,484.8	4,465.7	19.15	234.195		
4,200.0	4,074.7	4,092.3	4,091.8	18.3	3.6	121.35	-4,024.4	670.7	4,500.2	4,480.6	19.68	228.715		
4,300.0	4,170.3	4,166.3	4,165.8	18.9	3.7	121.59	-4,024.4	670.2	4,516.0	4,495.8	20.19	223.710		
4,400.0	4,265.9	4,249.5	4,248.9	19.4	3.7	121.88	-4,024.7	668.9	4,532.2	4,511.5	20.70	218.980		
4,500.0	4,361.6	4,355.9	4,355.3	20.0	3.8	122.25	-4,025.0	666.1	4,548.7	4,527.5	21.21	214.445		
4,600.0	4,457.2	4,484.1	4,483.5	20.5	3.9	122.71	-4,024.7	661.6	4,564.8	4,543.1	21.73	210.090		
4,700.0	4,552.8	4,615.2	4,614.5	21.1	4.0	123.18	-4,023.2	656.5	4,580.3	4,558.0	22.24	205.946		
4,800.0	4,648.5	4,700.0	4,699.2	21.6	4.1	123.48	-4,022.1	653.5	4,595.7	4,573.0	22.74	202.132		
4,900.0	4,744.1	4,780.5	4,779.6	22.2	4.2	123.76	-4,021.2	650.8	4,611.5	4,588.3	23.23	198.528		
5,000.0	4,839.7	4,862.3	4,861.4	22.7	4.3	124.04	-4,020.6	647.9	4,627.8	4,604.1	23.72	195.111		

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 1G-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 1G-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)				
5,100.0	4,935.3	4,931.4	4,930.4	23.3	4.3	124.28	-4,020.3	645.3	4,644.6	4,620.4	24.20	191.898		
5,204.0	5,034.8	5,000.0	4,999.0	23.9	4.4	124.52	-4,020.5	642.5	4,663.0	4,638.3	24.70	188.755		
5,300.0	5,126.8	5,067.2	5,066.2	24.4	4.4	124.90	-4,021.2	639.6	4,680.2	4,655.1	25.11	186.353		
5,400.0	5,223.2	5,192.1	5,190.9	24.9	4.6	125.43	-4,022.3	634.9	4,697.3	4,671.8	25.53	183.967		
5,500.0	5,320.0	5,305.6	5,304.4	25.3	4.7	125.89	-4,022.5	631.0	4,712.8	4,686.9	25.93	181.758		
5,600.0	5,417.2	5,409.1	5,407.8	25.8	4.7	126.30	-4,022.5	626.9	4,727.2	4,700.9	26.30	179.738		
5,700.0	5,514.8	5,500.0	5,498.6	26.2	4.8	126.64	-4,022.5	623.5	4,740.8	4,714.1	26.65	177.903		
5,800.0	5,612.8	5,578.9	5,577.5	26.5	4.9	126.93	-4,022.7	620.8	4,753.6	4,726.6	26.97	176.243		
5,900.0	5,711.1	5,679.5	5,678.0	26.9	5.0	127.24	-4,023.3	618.0	4,765.6	4,738.3	27.29	174.657		
6,000.0	5,809.7	5,778.1	5,776.5	27.2	5.1	127.51	-4,023.8	616.0	4,776.6	4,749.0	27.58	173.172		
6,100.0	5,908.6	5,872.8	5,871.2	27.5	5.2	127.74	-4,024.3	613.7	4,786.5	4,758.7	27.86	171.808		
6,200.0	6,007.7	5,975.2	5,973.7	27.8	5.2	127.97	-4,024.9	611.4	4,795.5	4,767.4	28.12	170.512		
6,300.0	6,107.1	6,071.6	6,070.1	28.0	5.3	128.16	-4,025.5	609.5	4,803.4	4,775.0	28.37	169.314		
6,400.0	6,206.6	6,161.1	6,159.5	28.2	5.4	128.31	-4,026.1	607.7	4,810.3	4,781.7	28.59	168.223		
6,500.0	6,306.3	6,253.0	6,251.4	28.4	5.5	128.45	-4,027.0	606.2	4,816.4	4,787.6	28.81	167.198		
6,600.0	6,406.1	6,346.5	6,344.8	28.6	5.6	128.55	-4,028.1	605.1	4,821.6	4,792.6	29.01	166.231		
6,700.0	6,506.0	6,449.5	6,447.9	28.7	5.7	128.64	-4,029.4	604.0	4,825.8	4,796.6	29.20	165.281		
6,800.0	6,606.0	6,600.0	6,598.3	28.8	5.8	128.71	-4,030.4	602.3	4,828.3	4,798.9	29.41	164.154		
6,904.0	6,710.0	6,684.8	6,683.1	28.9	5.9	-172.19	-4,030.7	602.0	4,829.3	4,799.7	29.57	163.325		
6,918.8	6,724.8	6,700.0	6,698.3	28.9	5.9	-172.19	-4,030.8	602.0	4,829.4	4,799.8	29.59	163.183		
6,950.0	6,756.0	6,743.1	6,741.5	28.9	5.9	7.81	-4,031.1	602.0	4,828.9	4,799.3	29.62	163.045		
7,000.0	6,805.8	6,815.5	6,813.8	28.9	6.0	7.86	-4,031.2	602.1	4,825.0	4,795.5	29.57	163.175		
7,050.0	6,855.2	6,863.9	6,862.2	28.8	6.0	7.95	-4,031.2	602.5	4,817.7	4,788.3	29.40	163.886		
7,100.0	6,904.0	6,913.3	6,911.6	28.8	6.1	8.08	-4,031.3	603.2	4,807.0	4,777.9	29.12	165.068		
7,150.0	6,952.0	6,966.6	6,964.9	28.7	6.1	8.27	-4,031.3	603.9	4,792.9	4,764.1	28.75	166.728		
7,200.0	6,998.8	7,020.2	7,018.5	28.6	6.2	8.52	-4,031.2	604.3	4,775.4	4,747.2	28.27	168.914		
7,250.0	7,044.3	7,075.0	7,073.3	28.5	6.2	8.84	-4,031.0	604.4	4,754.7	4,727.0	27.70	171.654		
7,300.0	7,088.2	7,119.3	7,117.7	28.3	6.2	9.23	-4,030.8	604.2	4,730.8	4,703.8	27.03	175.041		
7,350.0	7,130.4	7,154.6	7,152.9	28.2	6.3	9.69	-4,030.6	604.0	4,704.1	4,677.8	26.26	179.124		
7,400.0	7,170.6	7,188.3	7,186.6	28.0	6.3	10.26	-4,030.4	603.7	4,674.5	4,649.1	25.41	183.932		
7,450.0	7,208.6	7,225.9	7,224.2	27.8	6.3	10.96	-4,030.3	603.3	4,642.3	4,617.8	24.50	189.507		
7,500.0	7,244.3	7,264.2	7,262.5	27.7	6.4	11.82	-4,030.1	602.7	4,607.5	4,584.0	23.52	195.930		
7,550.0	7,277.4	7,299.8	7,298.1	27.5	6.4	12.89	-4,029.9	602.2	4,570.4	4,547.9	22.48	203.267		
7,600.0	7,307.8	7,341.2	7,339.5	27.3	6.4	14.27	-4,029.6	601.4	4,531.0	4,509.5	21.42	211.501		
7,650.0	7,335.4	7,378.5	7,376.8	27.2	6.5	16.02	-4,029.2	600.5	4,489.5	4,469.2	20.35	220.578		
7,700.0	7,360.0	7,400.0	7,398.3	27.0	6.5	18.20	-4,028.9	599.9	4,446.3	4,427.0	19.32	230.188		
7,750.0	7,381.6	7,424.3	7,422.6	26.9	6.5	21.15	-4,028.6	599.1	4,401.5	4,383.1	18.38	239.496		
7,800.0	7,399.9	7,439.1	7,437.3	26.8	6.5	25.11	-4,028.4	598.6	4,355.4	4,337.7	17.64	246.901		
7,850.0	7,414.9	7,451.1	7,449.4	26.7	6.5	30.73	-4,028.3	598.2	4,308.1	4,290.9	17.26	249.576		
7,900.0	7,426.6	7,460.4	7,458.6	26.6	6.5	39.07	-4,028.1	597.9	4,260.0	4,242.6	17.46	244.007		
7,950.0	7,434.9	7,466.8	7,465.0	26.5	6.5	51.86	-4,028.1	597.7	4,211.3	4,192.9	18.41	228.809		
8,000.0	7,439.7	7,470.3	7,468.6	26.5	6.6	70.99	-4,028.0	597.5	4,162.1	4,142.3	19.88	209.380		
8,043.8	7,441.0	7,471.0	7,469.3	26.5	6.6	92.02	-4,028.0	597.5	4,118.9	4,098.1	20.82	197.837		
8,100.0	7,441.0	7,470.5	7,468.7	26.6	6.6	91.97	-4,028.0	597.5	4,063.5	4,042.5	20.93	194.127		
8,200.0	7,441.0	7,469.5	7,467.7	26.7	6.6	91.88	-4,028.0	597.6	3,964.8	3,943.5	21.29	186.200		
8,300.0	7,441.0	7,468.5	7,466.7	27.0	6.5	91.80	-4,028.0	597.6	3,866.3	3,844.4	21.85	176.962		
8,400.0	7,441.0	7,467.5	7,465.7	27.4	6.5	91.71	-4,028.1	597.6	3,767.8	3,745.2	22.58	166.894		
8,500.0	7,441.0	7,466.5	7,464.7	27.8	6.5	91.62	-4,028.1	597.7	3,669.4	3,645.9	23.45	156.445		
8,600.0	7,441.0	7,465.5	7,463.7	28.4	6.5	91.54	-4,028.1	597.7	3,571.0	3,546.6	24.46	145.982		
8,700.0	7,441.0	7,464.5	7,462.7	29.1	6.5	91.45	-4,028.1	597.7	3,472.8	3,447.2	25.58	135.773		
8,800.0	7,441.0	7,463.4	7,461.7	29.9	6.5	91.36	-4,028.1	597.8	3,374.7	3,347.9	26.78	125.994		
8,900.0	7,441.0	7,462.4	7,460.6	30.8	6.5	91.27	-4,028.1	597.8	3,276.7	3,248.6	28.07	116.748		

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 1G-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 1G-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
9,000.0	7,441.0	7,461.4	7,459.6	31.7	6.5	91.18	-4,028.1	597.9	3,178.8	3,149.4	29.41	108.084	
9,100.0	7,441.0	7,460.3	7,458.6	32.7	6.5	91.09	-4,028.1	597.9	3,081.0	3,050.2	30.81	100.011	
9,200.0	7,441.0	7,459.3	7,457.5	33.8	6.5	91.00	-4,028.2	597.9	2,983.4	2,951.2	32.25	92.517	
9,300.0	7,441.0	7,458.3	7,456.5	34.9	6.5	90.91	-4,028.2	598.0	2,886.0	2,852.3	33.72	85.576	
9,400.0	7,441.0	7,457.2	7,455.4	36.1	6.5	90.82	-4,028.2	598.0	2,788.7	2,753.5	35.23	79.152	
9,500.0	7,441.0	7,456.1	7,454.4	37.3	6.5	90.73	-4,028.2	598.0	2,691.7	2,654.9	36.77	73.209	
9,600.0	7,441.0	7,455.1	7,453.3	38.6	6.5	90.64	-4,028.2	598.1	2,594.9	2,556.5	38.32	67.707	
9,700.0	7,441.0	7,454.0	7,452.3	39.9	6.5	90.54	-4,028.2	598.1	2,498.3	2,458.4	39.90	62.611	
9,800.0	7,441.0	7,452.9	7,451.2	41.2	6.5	90.45	-4,028.2	598.2	2,402.0	2,360.5	41.49	57.886	
9,900.0	7,441.0	7,451.9	7,450.1	42.6	6.5	90.36	-4,028.2	598.2	2,306.0	2,262.9	43.10	53.499	
10,000.0	7,441.0	7,450.8	7,449.0	44.0	6.5	90.26	-4,028.3	598.2	2,210.4	2,165.6	44.72	49.422	
10,100.0	7,441.0	7,449.7	7,447.9	45.4	6.5	90.17	-4,028.3	598.3	2,115.1	2,068.8	46.36	45.628	
10,200.0	7,441.0	7,448.6	7,446.8	46.9	6.5	90.07	-4,028.3	598.3	2,020.4	1,972.4	48.00	42.093	
10,300.0	7,441.0	7,447.5	7,445.7	48.4	6.5	89.98	-4,028.3	598.3	1,926.1	1,876.5	49.65	38.795	
10,400.0	7,441.0	7,446.4	7,444.6	49.8	6.5	89.88	-4,028.3	598.4	1,832.5	1,781.2	51.31	35.717	
10,500.0	7,441.0	7,445.3	7,443.5	51.3	6.5	89.78	-4,028.3	598.4	1,739.5	1,686.6	52.97	32.840	
10,600.0	7,441.0	7,444.1	7,442.4	52.9	6.5	89.69	-4,028.3	598.5	1,647.5	1,592.8	54.64	30.150	
10,700.0	7,441.0	7,443.0	7,441.2	54.4	6.5	89.59	-4,028.4	598.5	1,556.3	1,500.0	56.32	27.634	
10,800.0	7,441.0	7,441.9	7,440.1	55.9	6.5	89.49	-4,028.4	598.5	1,466.4	1,408.4	58.00	25.282	
10,900.0	7,441.0	7,440.7	7,439.0	57.5	6.5	89.39	-4,028.4	598.6	1,377.8	1,318.1	59.69	23.084	
11,000.0	7,441.0	7,439.6	7,437.8	59.1	6.5	89.29	-4,028.4	598.6	1,290.9	1,229.5	61.38	21.032	
11,100.0	7,441.0	7,438.4	7,436.7	60.7	6.5	89.19	-4,028.4	598.7	1,206.0	1,142.9	63.07	19.122	
11,200.0	7,441.0	7,437.3	7,435.5	62.2	6.5	89.09	-4,028.4	598.7	1,123.6	1,058.8	64.77	17.349	
11,300.0	7,441.0	7,436.1	7,434.4	63.8	6.5	88.99	-4,028.4	598.7	1,044.3	977.8	66.46	15.712	
11,400.0	7,441.0	7,434.9	7,433.2	65.4	6.5	88.89	-4,028.5	598.8	968.8	900.6	68.17	14.212	
11,500.0	7,441.0	7,433.8	7,432.0	67.1	6.5	88.78	-4,028.5	598.8	898.1	828.2	69.87	12.854	
11,600.0	7,441.0	7,432.6	7,430.8	68.7	6.5	88.68	-4,028.5	598.8	833.4	761.9	71.58	11.644	
11,700.0	7,441.0	7,431.4	7,429.6	70.3	6.5	88.58	-4,028.5	598.9	776.3	703.0	73.29	10.593	
11,800.0	7,441.0	7,430.2	7,428.4	71.9	6.5	88.47	-4,028.5	598.9	728.5	653.5	75.00	9.714	
11,900.0	7,441.0	7,429.0	7,427.2	73.6	6.5	88.37	-4,028.5	599.0	691.9	615.2	76.71	9.020	
12,000.0	7,441.0	7,427.8	7,426.0	75.2	6.5	88.26	-4,028.5	599.0	668.4	590.0	78.42	8.523	
12,100.0	7,441.0	7,426.5	7,424.8	76.9	6.5	88.16	-4,028.6	599.0	659.4	579.2	80.13	8.228	
12,109.9	7,441.0	7,426.4	7,424.7	77.0	6.5	88.15	-4,028.6	599.0	659.3	579.0	80.30	8.210 CC, ES	
12,135.7	7,441.0	7,426.1	7,424.4	77.5	6.5	88.12	-4,028.6	599.1	659.8	579.0	80.75	8.171 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		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			
0.0	0.0	5.2	5.2	0.0	0.0	129.72	-292.8	352.5	458.2					
100.0	100.0	107.5	107.5	0.2	0.2	129.64	-292.0	352.5	457.7	457.4	0.34	1,343.058		
127.6	127.6	132.6	132.6	0.2	0.2	129.60	-291.7	352.6	457.7	457.2	0.43	1,058.443		
200.0	200.0	198.0	198.0	0.3	0.3	129.50	-291.4	353.5	458.2	457.5	0.67	681.433		
300.0	300.0	285.8	285.8	0.5	0.5	70.31	-291.8	356.3	460.7	459.7	1.01	458.060		
400.0	400.0	367.0	366.8	0.7	0.7	70.30	-293.7	361.1	465.9	464.6	1.33	350.438		
500.0	499.9	459.0	458.3	0.9	0.9	70.44	-297.7	369.2	473.9	472.2	1.68	281.934		
600.0	599.7	541.2	539.8	1.1	1.1	70.63	-302.3	378.4	484.0	482.0	2.03	238.642		
700.0	699.4	627.6	625.2	1.3	1.4	70.83	-307.6	390.6	496.1	493.7	2.41	206.219		
800.0	798.9	713.3	709.5	1.5	1.7	70.95	-312.9	405.4	510.3	507.5	2.81	181.883		
900.0	898.3	798.8	793.1	1.8	2.0	71.13	-319.2	422.3	526.5	523.3	3.23	163.055		
1,000.0	997.4	889.3	881.1	2.0	2.4	71.44	-327.0	441.6	544.3	540.6	3.69	147.590		
1,100.0	1,096.3	984.4	973.5	2.3	2.9	71.92	-335.9	462.5	562.5	558.3	4.19	134.386		
1,200.0	1,194.9	1,085.0	1,071.2	2.7	3.3	72.61	-345.7	484.2	580.3	575.5	4.72	122.816		
1,300.0	1,293.3	1,179.7	1,163.2	3.0	3.7	73.37	-355.0	504.7	597.7	592.4	5.29	112.976		
1,400.0	1,391.2	1,275.2	1,255.8	3.4	4.2	74.20	-364.3	525.9	615.3	609.4	5.90	104.288		
1,500.0	1,488.9	1,370.0	1,347.6	3.8	4.6	75.04	-373.3	547.8	633.0	626.5	6.56	96.557		
1,600.0	1,586.1	1,467.1	1,441.5	4.2	5.1	75.89	-381.9	571.2	650.8	643.5	7.27	89.500		
1,700.0	1,682.9	1,559.1	1,530.1	4.7	5.6	76.68	-389.7	594.5	668.8	660.8	8.02	83.383		
1,800.0	1,779.3	1,656.3	1,623.7	5.2	6.1	77.59	-398.1	619.5	687.1	678.3	8.83	77.794		
1,900.0	1,875.2	1,755.6	1,719.3	5.7	6.6	78.61	-406.5	645.1	705.3	695.6	9.71	72.673		
2,000.0	1,970.8	1,861.9	1,821.9	6.3	7.1	79.91	-414.9	671.7	722.6	712.0	10.63	68.001		
2,100.0	2,066.4	1,961.9	1,918.8	6.8	7.6	81.21	-423.5	694.9	739.6	728.1	11.53	64.157		
2,200.0	2,162.1	2,058.2	2,012.2	7.3	8.0	82.46	-431.7	716.6	756.6	744.2	12.44	60.847		
2,300.0	2,257.7	2,156.6	2,107.5	7.9	8.5	83.64	-440.3	739.6	774.6	761.2	13.36	57.982		
2,400.0	2,353.3	2,260.2	2,208.2	8.4	8.9	84.87	-448.7	762.6	791.6	777.3	14.31	55.327		
2,500.0	2,448.9	2,363.2	2,308.3	9.0	9.4	86.05	-457.0	785.1	808.8	793.5	15.26	52.987		
2,600.0	2,544.6	2,460.6	2,403.2	9.5	9.8	87.12	-464.2	806.1	825.5	809.3	16.20	50.955		
2,700.0	2,640.2	2,554.2	2,494.3	10.1	10.2	88.13	-471.6	826.1	842.9	825.8	17.12	49.233		
2,800.0	2,735.8	2,667.5	2,604.7	10.6	10.7	89.32	-480.3	850.0	860.2	842.1	18.13	47.443		
2,900.0	2,831.5	2,758.2	2,693.3	11.2	11.1	90.25	-486.6	868.5	876.8	857.8	19.04	46.057		
3,000.0	2,927.1	2,840.2	2,773.3	11.7	11.5	91.12	-493.7	884.9	894.9	875.0	19.91	44.958		
3,100.0	3,022.7	2,930.6	2,861.3	12.2	11.9	92.05	-502.6	903.5	914.7	893.9	20.82	43.943		
3,200.0	3,118.4	3,022.8	2,950.9	12.8	12.3	92.90	-511.7	923.4	935.1	913.4	21.75	42.996		
3,300.0	3,214.0	3,118.7	3,043.7	13.3	12.8	93.66	-520.9	945.7	956.1	933.4	22.70	42.116		
3,400.0	3,309.6	3,217.2	3,139.0	13.9	13.2	94.39	-530.0	968.7	977.2	953.6	23.66	41.299		
3,500.0	3,405.3	3,334.1	3,252.5	14.4	13.8	95.27	-540.3	994.8	997.6	972.9	24.69	40.408		
3,600.0	3,500.9	3,447.6	3,363.3	15.0	14.2	96.16	-548.3	1,018.2	1,015.7	990.0	25.69	39.533		
3,700.0	3,596.5	3,530.9	3,444.6	15.5	14.6	96.80	-554.7	1,035.1	1,034.5	1,008.0	26.57	38.930		
3,800.0	3,692.1	3,648.2	3,559.2	16.1	15.1	97.68	-563.4	1,058.8	1,053.3	1,025.7	27.59	38.172		
3,900.0	3,787.8	3,749.1	3,657.9	16.7	15.5	98.39	-568.9	1,078.8	1,070.3	1,041.8	28.55	37.494		
4,000.0	3,883.4	3,834.5	3,741.4	17.2	15.8	98.98	-574.8	1,095.9	1,088.8	1,059.4	29.43	36.998		
4,100.0	3,979.0	3,936.4	3,841.1	17.8	16.3	99.70	-582.0	1,115.7	1,107.4	1,077.0	30.36	36.473		
4,200.0	4,074.7	4,032.2	3,935.0	18.3	16.6	100.41	-589.0	1,133.4	1,126.1	1,094.8	31.27	36.011		
4,300.0	4,170.3	4,126.0	4,026.8	18.9	17.0	101.05	-595.9	1,151.2	1,145.2	1,113.0	32.17	35.594		
4,400.0	4,265.9	4,221.6	4,120.3	19.4	17.4	101.67	-603.1	1,169.8	1,164.6	1,131.5	33.09	35.195		
4,500.0	4,361.6	4,341.5	4,237.5	20.0	17.9	102.37	-611.2	1,193.7	1,183.8	1,149.7	34.09	34.729		
4,600.0	4,457.2	4,503.3	4,397.3	20.5	18.3	103.62	-617.7	1,217.5	1,198.8	1,163.7	35.13	34.126		
4,700.0	4,552.8	4,624.3	4,517.8	21.1	18.6	104.80	-619.9	1,228.6	1,210.7	1,174.7	35.98	33.646		
4,800.0	4,648.5	4,755.1	4,648.4	21.6	18.7	106.24	-620.6	1,235.7	1,220.7	1,183.9	36.78	33.189		
4,900.0	4,744.1	4,865.0	4,758.3	22.2	18.8	107.57	-619.7	1,238.0	1,229.2	1,191.7	37.49	32.791		
5,000.0	4,839.7	4,959.6	4,852.8	22.7	18.9	108.75	-618.7	1,238.8	1,237.9	1,199.8	38.14	32.458		

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 1G-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 1G-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Centre +E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
5,100.0	4,935.3	5,046.2	4,939.4	23.3	19.0	109.84	-618.3	1,239.2	1,247.6	1,208.8	38.76	32.186				
5,204.0	5,034.8	5,135.5	5,028.8	23.9	19.1	110.93	-618.8	1,240.0	1,259.3	1,219.9	39.39	31.967				
5,300.0	5,126.8	5,234.0	5,127.2	24.4	19.2	112.20	-619.3	1,240.7	1,270.3	1,230.3	39.97	31.784				
5,400.0	5,223.2	5,332.3	5,225.5	24.9	19.3	113.38	-619.4	1,241.0	1,281.2	1,240.7	40.51	31.627				
5,500.0	5,320.0	5,425.9	5,319.1	25.3	19.4	114.44	-619.7	1,241.2	1,292.0	1,251.0	41.01	31.503				
5,600.0	5,417.2	5,524.0	5,417.2	25.8	19.4	115.44	-620.2	1,241.6	1,302.6	1,261.1	41.47	31.407				
5,700.0	5,514.8	5,626.2	5,519.4	26.2	19.5	116.44	-620.4	1,240.9	1,312.4	1,270.6	41.89	31.333				
5,800.0	5,612.8	5,726.9	5,620.1	26.5	19.6	117.36	-620.4	1,239.7	1,321.6	1,279.3	42.26	31.272				
5,900.0	5,711.1	5,827.8	5,721.0	26.9	19.7	118.20	-620.2	1,238.3	1,329.9	1,287.3	42.60	31.216				
6,000.0	5,809.7	5,927.3	5,820.5	27.2	19.7	118.95	-619.9	1,236.8	1,337.5	1,294.6	42.92	31.166				
6,100.0	5,908.6	6,029.3	5,922.5	27.5	19.8	119.65	-619.4	1,235.1	1,344.3	1,301.1	43.20	31.117				
6,200.0	6,007.7	6,133.9	6,027.1	27.8	19.9	120.29	-618.5	1,233.2	1,350.1	1,306.6	43.46	31.063				
6,300.0	6,107.1	6,237.0	6,130.2	28.0	19.9	120.85	-617.3	1,231.0	1,354.7	1,311.0	43.70	31.003				
6,400.0	6,206.6	6,340.1	6,233.2	28.2	20.0	121.34	-615.7	1,228.5	1,358.2	1,314.3	43.91	30.934				
6,500.0	6,306.3	6,433.7	6,326.7	28.4	20.0	121.74	-614.4	1,226.0	1,361.0	1,316.9	44.09	30.867				
6,600.0	6,406.1	6,519.8	6,412.8	28.6	20.1	122.05	-613.8	1,223.8	1,363.6	1,319.3	44.26	30.806				
6,700.0	6,506.0	6,619.5	6,512.5	28.7	20.2	122.30	-613.7	1,221.8	1,365.9	1,321.4	44.44	30.736				
6,800.0	6,606.0	6,725.5	6,618.5	28.8	20.2	122.50	-613.2	1,219.8	1,366.9	1,322.3	44.60	30.649				
6,904.0	6,710.0	6,829.4	6,722.4	28.9	20.3	-178.32	-612.6	1,218.1	1,366.9	1,322.1	44.76	30.539				
6,918.8	6,724.8	6,844.8	6,737.7	28.9	20.3	-178.31	-612.5	1,217.9	1,366.8	1,322.0	44.78	30.521				
6,950.0	6,756.0	6,877.0	6,769.9	28.9	20.3	1.71	-612.3	1,217.4	1,365.9	1,321.2	44.78	30.501				
7,000.0	6,805.8	6,929.4	6,822.3	28.9	20.4	1.77	-611.9	1,216.4	1,361.7	1,317.0	44.62	30.515				
7,050.0	6,855.2	6,981.7	6,874.7	28.8	20.4	1.85	-611.4	1,215.3	1,353.8	1,309.5	44.27	30.584				
7,100.0	6,904.0	7,025.7	6,918.6	28.8	20.5	1.93	-610.9	1,214.4	1,342.6	1,298.8	43.72	30.708				
7,150.0	6,952.0	7,067.7	6,960.6	28.7	20.5	2.02	-610.7	1,213.8	1,328.1	1,285.1	42.99	30.896				
7,200.0	6,998.8	7,115.6	7,008.5	28.6	20.5	2.12	-610.6	1,213.4	1,310.5	1,268.5	42.08	31.147				
7,250.0	7,044.3	7,165.7	7,058.6	28.5	20.6	2.26	-610.3	1,212.8	1,289.6	1,248.6	40.99	31.464				
7,300.0	7,088.2	7,211.4	7,104.4	28.3	20.6	2.43	-609.9	1,212.1	1,265.4	1,225.7	39.72	31.856				
7,350.0	7,130.4	7,254.5	7,147.4	28.2	20.7	2.65	-609.5	1,211.3	1,238.2	1,199.9	38.30	32.331				
7,400.0	7,170.6	7,297.6	7,190.5	28.0	20.7	2.93	-609.0	1,210.3	1,208.0	1,171.3	36.72	32.895				
7,450.0	7,208.6	7,339.4	7,232.3	27.8	20.7	3.28	-608.3	1,209.3	1,175.1	1,140.0	35.02	33.556				
7,500.0	7,244.3	7,377.6	7,270.5	27.7	20.7	3.72	-607.6	1,208.2	1,139.4	1,106.2	33.20	34.325				
7,550.0	7,277.4	7,411.5	7,304.3	27.5	20.7	4.27	-606.9	1,207.1	1,101.4	1,070.1	31.28	35.214				
7,600.0	7,307.8	7,442.3	7,335.1	27.3	20.8	4.98	-606.2	1,206.1	1,061.2	1,031.9	29.29	36.228				
7,650.0	7,335.4	7,470.1	7,362.9	27.2	20.8	5.91	-605.6	1,205.2	1,019.0	991.7	27.27	37.367				
7,700.0	7,360.0	7,494.8	7,387.6	27.0	20.8	7.15	-605.0	1,204.3	975.0	949.7	25.25	38.609				
7,750.0	7,381.6	7,516.1	7,408.8	26.9	20.8	8.90	-604.4	1,203.5	929.4	906.1	23.30	39.884				
7,800.0	7,399.9	7,533.9	7,426.6	26.8	20.8	11.45	-604.0	1,202.8	882.6	861.1	21.52	41.016				
7,850.0	7,414.9	7,548.2	7,440.9	26.7	20.8	15.47	-603.6	1,202.2	834.7	814.6	20.08	41.569				
7,900.0	7,426.6	7,558.6	7,451.3	26.6	20.8	22.39	-603.3	1,201.7	785.9	766.5	19.42	40.472				
7,950.0	7,434.9	7,565.4	7,458.0	26.5	20.8	36.07	-603.1	1,201.4	736.5	715.8	20.76	35.481				
8,000.0	7,439.7	7,568.7	7,461.4	26.5	20.8	66.13	-603.0	1,201.3	686.8	660.7	26.11	26.303				
8,043.8	7,441.0	7,568.8	7,461.5	26.5	20.8	105.23	-603.0	1,201.3	643.2	614.7	28.48	22.580				
8,100.0	7,441.0	7,567.3	7,459.9	26.6	20.8	103.79	-603.0	1,201.4	587.3	558.6	28.66	20.493				
8,200.0	7,441.0	7,564.5	7,457.2	26.7	20.8	101.15	-603.1	1,201.5	487.8	458.8	29.09	16.770				
8,300.0	7,441.0	7,561.7	7,454.4	27.0	20.8	98.45	-603.2	1,201.6	388.7	359.0	29.68	13.098				
8,400.0	7,441.0	7,559.0	7,451.6	27.4	20.8	95.69	-603.3	1,201.7	290.2	259.8	30.41	9.543				
8,500.0	7,441.0	7,556.2	7,448.8	27.8	20.8	92.88	-603.3	1,201.8	193.1	161.8	31.25	6.179				
8,600.0	7,441.0	7,553.3	7,446.0	28.4	20.8	90.03	-603.4	1,202.0	101.7	69.5	32.17	3.160				
8,684.8	7,441.0	7,551.0	7,443.7	29.0	20.8	87.61	-603.5	1,202.1	56.2	23.2	33.02	1.702 CC, ES, SF				
8,700.0	7,441.0	7,550.5	7,443.2	29.1	20.8	87.17	-603.5	1,202.1	58.2	25.0	33.16	1.755				
8,800.0	7,441.0	7,547.8	7,440.5	29.9	20.8	84.35	-603.6	1,202.2	128.1	94.0	34.19	3.748				

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 1G-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 1G-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		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	7,441.0	7,545.0	7,437.7	30.8	20.8	81.57	-603.7	1,202.3	222.3	187.1	35.22	6.312		
9,000.0	7,441.0	7,542.3	7,435.0	31.7	20.8	78.84	-603.7	1,202.4	320.1	283.8	36.26	8.827		
9,100.0	7,441.0	7,539.6	7,432.3	32.7	20.8	76.18	-603.8	1,202.5	418.8	381.6	37.27	11.238		
9,200.0	7,441.0	7,536.9	7,429.6	33.8	20.8	73.59	-603.9	1,202.6	518.1	479.8	38.25	13.544		
9,300.0	7,441.0	7,534.3	7,427.0	34.9	20.8	71.09	-604.0	1,202.7	617.5	578.3	39.19	15.756		
9,400.0	7,441.0	7,531.7	7,424.4	36.1	20.8	68.68	-604.0	1,202.8	717.1	677.1	40.09	17.889		
9,500.0	7,441.0	7,529.1	7,421.8	37.3	20.8	66.35	-604.1	1,202.9	816.8	775.9	40.94	19.954		
9,600.0	7,441.0	7,526.5	7,419.2	38.6	20.8	64.12	-604.2	1,203.1	916.6	874.9	41.73	21.964		
9,700.0	7,441.0	7,524.0	7,416.7	39.9	20.8	61.98	-604.2	1,203.2	1,016.4	973.9	42.48	23.927		
9,800.0	7,441.0	7,521.5	7,414.2	41.2	20.8	59.94	-604.3	1,203.3	1,116.2	1,073.0	43.18	25.852		
9,900.0	7,441.0	7,519.0	7,411.7	42.6	20.8	57.99	-604.4	1,203.3	1,216.1	1,172.2	43.83	27.746		
10,000.0	7,441.0	7,516.5	7,409.3	44.0	20.8	56.13	-604.4	1,203.4	1,315.9	1,271.5	44.44	29.614		
10,100.0	7,441.0	7,514.1	7,406.8	45.4	20.8	54.35	-604.5	1,203.5	1,415.8	1,370.8	45.00	31.461		
10,200.0	7,441.0	7,511.7	7,404.4	46.9	20.8	52.67	-604.6	1,203.6	1,515.7	1,470.2	45.53	33.290		
10,300.0	7,441.0	7,509.3	7,402.0	48.4	20.8	51.06	-604.6	1,203.7	1,615.6	1,569.6	46.02	35.104		
10,400.0	7,441.0	7,506.9	7,399.6	49.8	20.8	49.54	-604.7	1,203.8	1,715.5	1,669.0	46.48	36.905		
10,500.0	7,441.0	7,504.5	7,397.3	51.3	20.8	48.09	-604.7	1,203.9	1,815.4	1,768.5	46.92	38.694		
10,600.0	7,441.0	7,502.2	7,394.9	52.9	20.8	46.71	-604.8	1,204.0	1,915.3	1,868.0	47.32	40.473		
10,700.0	7,441.0	7,499.9	7,392.6	54.4	20.8	45.40	-604.9	1,204.1	2,015.3	1,967.6	47.71	42.243		
10,800.0	7,441.0	7,497.6	7,390.4	55.9	20.8	44.15	-604.9	1,204.2	2,115.2	2,067.1	48.07	44.003		
10,900.0	7,441.0	7,495.3	7,388.1	57.5	20.8	42.96	-605.0	1,204.3	2,215.1	2,166.7	48.41	45.755		
11,000.0	7,441.0	7,493.1	7,385.8	59.1	20.8	41.83	-605.0	1,204.3	2,315.1	2,266.3	48.74	47.499		
11,100.0	7,441.0	7,490.9	7,383.6	60.7	20.8	40.76	-605.1	1,204.4	2,415.0	2,366.0	49.05	49.235		
11,200.0	7,441.0	7,488.7	7,381.4	62.2	20.8	39.73	-605.1	1,204.5	2,515.0	2,465.6	49.35	50.962		
11,300.0	7,441.0	7,486.5	7,379.2	63.8	20.8	38.76	-605.2	1,204.6	2,614.9	2,565.3	49.64	52.682		
11,400.0	7,441.0	7,484.3	7,377.1	65.4	20.8	37.83	-605.2	1,204.7	2,714.9	2,664.9	49.91	54.393		
11,500.0	7,441.0	7,482.2	7,374.9	67.1	20.8	36.94	-605.3	1,204.7	2,814.8	2,764.6	50.18	56.095		
11,600.0	7,441.0	7,480.0	7,372.8	68.7	20.8	36.09	-605.4	1,204.8	2,914.8	2,864.3	50.44	57.790		
11,700.0	7,441.0	7,477.9	7,370.7	70.3	20.8	35.28	-605.4	1,204.9	3,014.7	2,964.0	50.69	59.475		
11,800.0	7,441.0	7,475.8	7,368.6	71.9	20.8	34.51	-605.5	1,205.0	3,114.7	3,063.7	50.93	61.152		
11,900.0	7,441.0	7,473.8	7,366.5	73.6	20.8	33.77	-605.5	1,205.0	3,214.6	3,163.4	51.17	62.820		
12,000.0	7,441.0	7,471.7	7,364.5	75.2	20.8	33.06	-605.6	1,205.1	3,314.6	3,263.2	51.41	64.479		
12,100.0	7,441.0	7,469.7	7,362.4	76.9	20.8	32.38	-605.6	1,205.2	3,414.5	3,362.9	51.64	66.128		
12,135.7	7,441.0	7,468.9	7,361.7	77.5	20.8	32.15	-605.6	1,205.2	3,450.2	3,398.5	51.72	66.714		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
							+N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.1	-61.5	61.5					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.1	-61.5	61.5	61.2	0.30	202.482		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.1	-61.5	61.5	60.8	0.65	94.203	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	-148.98	0.5	-62.2	62.9	61.9	1.00	62.899		
400.0	400.0	398.1	398.1	0.7	0.7	-148.83	2.0	-64.3	67.3	66.0	1.35	49.827		
500.0	499.9	496.8	496.7	0.9	0.9	-148.63	4.5	-67.8	74.6	72.9	1.70	43.740		
600.0	599.7	595.2	594.9	1.1	1.1	-148.39	7.9	-72.6	84.7	82.7	2.06	41.035		
700.0	699.4	693.1	692.4	1.3	1.3	-148.15	12.3	-78.8	97.8	95.3	2.43	40.195		
800.0	798.9	790.3	789.3	1.5	1.5	-147.92	17.6	-86.3	113.6	110.8	2.81	40.464		
900.0	898.3	886.8	885.2	1.8	1.7	-147.70	23.8	-95.0	132.3	129.2	3.20	41.422		
1,000.0	997.4	982.5	980.1	2.0	2.0	-147.50	30.9	-105.0	153.9	150.3	3.59	42.815		
1,100.0	1,096.3	1,077.2	1,073.8	2.3	2.3	-147.32	38.8	-116.2	178.2	174.1	4.01	44.481		
1,200.0	1,194.9	1,170.9	1,166.3	2.7	2.6	-147.14	47.5	-128.5	205.2	200.7	4.43	46.313		
1,300.0	1,293.3	1,263.5	1,257.4	3.0	2.9	-146.97	56.9	-141.8	234.9	230.0	4.87	48.238		
1,400.0	1,391.2	1,354.8	1,347.0	3.4	3.2	-146.81	67.1	-156.1	267.3	261.9	5.32	50.203		
1,500.0	1,488.9	1,444.8	1,435.0	3.8	3.6	-146.64	77.9	-171.4	302.2	296.4	5.79	52.175		
1,600.0	1,586.1	1,533.3	1,521.3	4.2	3.9	-146.47	89.3	-187.5	339.8	333.5	6.28	54.127		
1,700.0	1,682.9	1,620.5	1,605.9	4.7	4.3	-146.30	101.3	-204.5	379.8	373.1	6.78	56.044		
1,800.0	1,779.3	1,706.4	1,689.1	5.2	4.7	-146.12	113.8	-222.2	422.3	415.0	7.29	57.910		
1,900.0	1,875.2	1,796.0	1,775.7	5.7	5.2	-146.01	127.2	-241.1	466.6	458.8	7.83	59.584		
2,000.0	1,970.8	1,885.4	1,862.0	6.3	5.6	-146.20	140.6	-260.0	511.6	503.2	8.39	60.973		
2,100.0	2,066.4	1,974.7	1,948.2	6.8	6.0	-146.37	153.9	-278.8	556.5	547.5	8.95	62.160		
2,200.0	2,162.1	2,064.0	2,034.5	7.3	6.4	-146.50	167.3	-297.7	601.4	591.9	9.52	63.184		
2,300.0	2,257.7	2,153.3	2,120.8	7.9	6.9	-146.62	180.7	-316.6	646.4	636.3	10.09	64.076		
2,400.0	2,353.3	2,242.6	2,207.1	8.4	7.3	-146.73	194.0	-335.4	691.4	680.7	10.66	64.857		
2,500.0	2,448.9	2,332.0	2,293.4	9.0	7.7	-146.82	207.4	-354.3	736.3	725.1	11.23	65.547		
2,600.0	2,544.6	2,421.3	2,379.6	9.5	8.2	-146.90	220.7	-373.2	781.3	769.5	11.81	66.160		
2,700.0	2,640.2	2,510.6	2,465.9	10.1	8.6	-146.97	234.1	-392.1	826.2	813.8	12.39	66.709		
2,800.0	2,735.8	2,599.9	2,552.2	10.6	9.0	-147.03	247.5	-410.9	871.2	858.2	12.96	67.202		
2,900.0	2,831.5	2,689.2	2,638.5	11.2	9.5	-147.09	260.8	-429.8	916.1	902.6	13.54	67.646		
3,000.0	2,927.1	2,778.6	2,724.7	11.7	9.9	-147.14	274.2	-448.7	961.1	947.0	14.12	68.050		
3,100.0	3,022.7	2,867.9	2,811.0	12.2	10.3	-147.19	287.5	-467.5	1,006.0	991.3	14.70	68.418		
3,200.0	3,118.4	2,957.2	2,897.3	12.8	10.8	-147.24	300.9	-486.4	1,051.0	1,035.7	15.29	68.754		
3,300.0	3,214.0	3,046.5	2,983.6	13.3	11.2	-147.28	314.3	-505.3	1,096.0	1,080.1	15.87	69.063		
3,400.0	3,309.6	3,135.8	3,069.8	13.9	11.6	-147.31	327.6	-524.1	1,140.9	1,124.5	16.45	69.347		
3,500.0	3,405.3	3,225.2	3,156.1	14.4	12.1	-147.35	341.0	-543.0	1,185.9	1,168.8	17.04	69.609		
3,600.0	3,500.9	3,314.5	3,242.4	15.0	12.5	-147.38	354.3	-561.9	1,230.8	1,213.2	17.62	69.853		
3,700.0	3,596.5	3,403.8	3,328.7	15.5	13.0	-147.41	367.7	-580.7	1,275.8	1,257.6	18.21	70.078		
3,800.0	3,692.1	3,493.1	3,415.0	16.1	13.4	-147.44	381.0	-599.6	1,320.8	1,302.0	18.79	70.289		
3,900.0	3,787.8	3,582.5	3,501.2	16.7	13.8	-147.46	394.4	-618.5	1,365.7	1,346.4	19.38	70.485		
4,000.0	3,883.4	3,671.8	3,587.5	17.2	14.3	-147.49	407.8	-637.3	1,410.7	1,390.7	19.96	70.668		
4,100.0	3,979.0	3,761.1	3,673.8	17.8	14.7	-147.51	421.1	-656.2	1,455.7	1,435.1	20.55	70.840		
4,200.0	4,074.7	3,850.4	3,760.1	18.3	15.2	-147.53	434.5	-675.1	1,500.6	1,479.5	21.13	71.002		
4,300.0	4,170.3	3,939.7	3,846.3	18.9	15.6	-147.55	447.8	-693.9	1,545.6	1,523.9	21.72	71.154		
4,400.0	4,265.9	4,029.1	3,932.6	19.4	16.0	-147.57	461.2	-712.8	1,590.5	1,568.2	22.31	71.297		
4,500.0	4,361.6	4,118.4	4,018.9	20.0	16.5	-147.59	474.6	-731.7	1,635.5	1,612.6	22.90	71.432		
4,600.0	4,457.2	4,207.7	4,105.2	20.5	16.9	-147.60	487.9	-750.5	1,680.5	1,657.0	23.48	71.559		
4,700.0	4,552.8	4,297.0	4,191.5	21.1	17.4	-147.62	501.3	-769.4	1,725.4	1,701.4	24.07	71.680		
4,800.0	4,648.5	4,386.3	4,277.7	21.6	17.8	-147.63	514.6	-788.3	1,770.4	1,745.7	24.66	71.795		
4,900.0	4,744.1	4,475.7	4,364.0	22.2	18.2	-147.65	528.0	-807.1	1,815.3	1,790.1	25.25	71.904		
5,000.0	4,839.7	4,565.0	4,450.3	22.7	18.7	-147.66	541.4	-826.0	1,860.3	1,834.5	25.84	72.007		
5,100.0	4,935.3	4,654.3	4,536.6	23.3	19.1	-147.67	554.7	-844.9	1,905.3	1,878.9	26.42	72.106		

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

Cathedral Energy Services

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Reference Well:	lone 1G-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					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		
5,204.0	5,034.8	4,747.2	4,626.3	23.9	19.6	-147.69	568.6	-864.5	1,952.0	1,925.0	27.04	72.203		
5,300.0	5,126.8	4,833.2	4,709.4	24.4	20.0	-147.94	581.5	-882.7	1,994.6	1,966.9	27.65	72.147		
5,400.0	5,223.2	4,923.5	4,796.6	24.9	20.4	-148.16	595.0	-901.7	2,037.6	2,009.3	28.27	72.070		
5,500.0	5,320.0	5,014.4	4,884.4	25.3	20.9	-148.34	608.6	-920.9	2,079.3	2,050.4	28.89	71.975		
5,600.0	5,417.2	5,119.1	4,985.5	25.8	21.4	-148.48	624.1	-942.9	2,119.5	2,090.0	29.53	71.772		
5,700.0	5,514.8	5,251.9	5,114.5	26.2	22.0	-148.58	642.6	-968.9	2,157.1	2,126.8	30.22	71.374		
5,800.0	5,612.8	5,387.5	5,246.9	26.5	22.5	-148.69	659.6	-993.0	2,191.4	2,160.5	30.88	70.958		
5,900.0	5,711.1	5,525.8	5,382.5	26.9	23.0	-148.79	675.1	-1,014.9	2,222.6	2,191.0	31.51	70.533		
6,000.0	5,809.7	5,666.4	5,521.0	27.2	23.5	-148.88	688.9	-1,034.4	2,250.4	2,218.3	32.10	70.098		
6,100.0	5,908.6	5,809.2	5,662.3	27.5	23.9	-148.98	700.9	-1,051.4	2,274.8	2,242.2	32.66	69.654		
6,200.0	6,007.7	5,953.8	5,805.9	27.8	24.3	-149.08	711.0	-1,065.6	2,295.8	2,262.6	33.17	69.209		
6,300.0	6,107.1	6,100.1	5,951.5	28.0	24.6	-149.18	719.1	-1,077.0	2,313.3	2,279.7	33.65	68.752		
6,400.0	6,206.6	6,247.6	6,098.7	28.2	24.9	-149.29	725.0	-1,085.4	2,327.3	2,293.2	34.08	68.297		
6,500.0	6,306.3	6,396.2	6,247.1	28.4	25.0	-149.39	728.8	-1,090.8	2,337.7	2,303.2	34.46	67.829		
6,600.0	6,406.1	6,545.4	6,396.3	28.6	25.2	-149.51	730.4	-1,093.0	2,344.5	2,309.6	34.81	67.355		
6,700.0	6,506.0	6,655.2	6,506.0	28.7	25.3	-149.58	730.5	-1,093.1	2,348.3	2,313.2	35.08	66.941		
6,800.0	6,606.0	6,755.1	6,606.0	28.8	25.4	-149.63	730.5	-1,093.1	2,350.6	2,315.3	35.33	66.536		
6,904.0	6,710.0	6,859.1	6,710.0	28.9	25.4	-90.57	730.5	-1,093.1	2,351.4	2,315.9	35.57	66.105		
6,918.8	6,724.8	6,874.0	6,724.8	28.9	25.5	-90.57	730.5	-1,093.1	2,351.4	2,315.8	35.61	66.040		
6,950.0	6,756.0	6,905.1	6,755.9	28.9	25.5	89.45	730.4	-1,093.1	2,351.4	2,315.8	35.66	65.935		
7,000.0	6,805.8	6,953.6	6,804.4	28.9	25.5	89.50	728.7	-1,093.1	2,351.4	2,315.8	35.67	65.923		
7,050.0	6,855.2	7,002.2	6,852.8	28.8	25.5	89.56	723.7	-1,093.1	2,351.4	2,315.8	35.59	66.063		
7,100.0	6,904.0	7,051.0	6,900.8	28.8	25.4	89.61	715.4	-1,093.1	2,351.4	2,315.9	35.44	66.353		
7,150.0	6,952.0	7,100.0	6,948.4	28.7	25.4	89.67	703.8	-1,093.1	2,351.4	2,316.2	35.21	66.789		
7,200.0	6,998.8	7,149.1	6,995.1	28.6	25.3	89.73	688.9	-1,093.1	2,351.4	2,316.5	34.90	67.370		
7,250.0	7,044.3	7,198.3	7,041.0	28.5	25.1	89.79	670.8	-1,093.1	2,351.3	2,316.8	34.53	68.089		
7,300.0	7,088.2	7,247.8	7,085.6	28.3	25.0	89.86	649.5	-1,093.1	2,351.3	2,317.2	34.11	68.942		
7,350.0	7,130.4	7,297.4	7,128.8	28.2	24.9	89.92	625.1	-1,093.1	2,351.3	2,317.7	33.63	69.921		
7,400.0	7,170.6	7,347.2	7,170.3	28.0	24.7	89.99	597.6	-1,093.1	2,351.3	2,318.2	33.11	71.016		
7,444.9	7,204.8	7,392.1	7,206.0	27.8	24.5	90.04	570.5	-1,093.1	2,351.3	2,318.7	32.62	72.090		
7,450.0	7,208.6	7,397.2	7,210.0	27.8	24.5	90.05	567.2	-1,093.1	2,351.3	2,318.8	32.56	72.215		
7,500.0	7,244.3	7,447.4	7,247.6	27.7	24.3	90.11	534.0	-1,093.1	2,351.3	2,319.3	31.99	73.499		
7,550.0	7,277.4	7,497.7	7,282.9	27.5	24.1	90.18	498.1	-1,093.1	2,351.3	2,319.9	31.42	74.847		
7,600.0	7,307.8	7,548.3	7,315.7	27.3	23.9	90.24	459.6	-1,093.1	2,351.3	2,320.5	30.85	76.227		
7,650.0	7,335.4	7,599.0	7,345.8	27.2	23.8	90.30	418.8	-1,093.1	2,351.3	2,321.0	30.30	77.605		
7,700.0	7,360.0	7,649.9	7,373.0	27.0	23.6	90.36	375.8	-1,093.1	2,351.4	2,321.6	29.79	78.937		
7,750.0	7,381.6	7,701.0	7,397.2	26.9	23.4	90.42	330.8	-1,093.1	2,351.4	2,322.0	29.33	80.173		
7,800.0	7,399.9	7,752.3	7,418.2	26.8	23.3	90.48	284.1	-1,093.1	2,351.4	2,322.5	28.94	81.262		
7,850.0	7,414.9	7,803.8	7,435.9	26.7	23.2	90.54	235.7	-1,093.1	2,351.4	2,322.8	28.62	82.149		
7,900.0	7,426.6	7,855.4	7,450.1	26.6	23.1	90.59	186.1	-1,093.1	2,351.4	2,323.0	28.40	82.786		
7,950.0	7,434.9	7,907.2	7,460.7	26.5	23.1	90.64	135.4	-1,093.1	2,351.4	2,323.2	28.29	83.132		
8,000.0	7,439.7	7,959.1	7,467.6	26.5	23.0	90.68	84.0	-1,093.1	2,351.5	2,323.2	28.28	83.158		
8,043.8	7,441.0	8,004.8	7,470.6	26.5	23.0	90.72	38.4	-1,093.1	2,351.5	2,323.1	28.36	82.920		
8,100.0	7,441.0	8,061.9	7,471.0	26.6	23.1	90.73	-18.7	-1,093.1	2,351.5	2,322.9	28.60	82.217		
8,200.0	7,441.0	8,161.9	7,471.0	26.7	23.3	90.73	-118.7	-1,093.1	2,351.5	2,322.1	29.34	80.134		
8,300.0	7,441.0	8,261.9	7,471.0	27.0	23.6	90.73	-218.7	-1,093.1	2,351.5	2,321.0	30.46	77.188		
8,400.0	7,441.0	8,361.9	7,471.0	27.4	24.1	90.73	-318.7	-1,093.1	2,351.5	2,319.5	31.93	73.640		
8,500.0	7,441.0	8,461.9	7,471.0	27.8	24.6	90.73	-418.7	-1,093.1	2,351.5	2,317.7	33.70	69.772		
8,600.0	7,441.0	8,561.9	7,471.0	28.4	25.3	90.73	-518.7	-1,093.1	2,351.4	2,315.7	35.73	65.812		
8,700.0	7,441.0	8,661.9	7,471.0	29.1	26.1	90.73	-618.7	-1,093.1	2,351.4	2,313.5	37.97	61.923		
8,800.0	7,441.0	8,761.9	7,471.0	29.9	27.0	90.73	-718.7	-1,093.1	2,351.4	2,311.0	40.40	58.206		
8,900.0	7,441.0	8,861.9	7,471.0	30.8	27.9	90.73	-818.7	-1,093.1	2,351.4	2,308.5	42.97	54.719		

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

Cathedral Energy Services

Anticollision Report

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Reference Site:	S10-T2N-R66W (lone)	MD Reference:	WELL @ 5012.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 1G-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)						
9,000.0	7,441.0	8,961.9	7,471.0	31.7	29.0	90.73	-918.7	-1,093.1	2,351.4	2,305.7	45.67	51.485		
9,100.0	7,441.0	9,061.9	7,471.0	32.7	30.1	90.73	-1,018.7	-1,093.1	2,351.4	2,302.9	48.47	48.508		
9,200.0	7,441.0	9,161.9	7,471.0	33.8	31.3	90.73	-1,118.7	-1,093.1	2,351.4	2,300.0	51.36	45.779		
9,300.0	7,441.0	9,261.9	7,471.0	34.9	32.5	90.73	-1,218.7	-1,093.1	2,351.4	2,297.1	54.33	43.282		
9,400.0	7,441.0	9,361.9	7,471.0	36.1	33.8	90.73	-1,318.7	-1,093.1	2,351.4	2,294.0	57.35	41.000		
9,500.0	7,441.0	9,461.9	7,471.0	37.3	35.1	90.73	-1,418.7	-1,093.1	2,351.4	2,291.0	60.43	38.912		
9,600.0	7,441.0	9,561.9	7,471.0	38.6	36.4	90.73	-1,518.7	-1,093.1	2,351.4	2,287.8	63.55	37.001		
9,700.0	7,441.0	9,661.9	7,471.0	39.9	37.8	90.73	-1,618.7	-1,093.1	2,351.4	2,284.7	66.71	35.248		
9,800.0	7,441.0	9,761.9	7,471.0	41.2	39.2	90.73	-1,718.7	-1,093.1	2,351.4	2,281.5	69.90	33.638		
9,900.0	7,441.0	9,861.9	7,471.0	42.6	40.7	90.73	-1,818.7	-1,093.1	2,351.4	2,278.2	73.12	32.156		
10,000.0	7,441.0	9,961.9	7,471.0	44.0	42.2	90.73	-1,918.7	-1,093.1	2,351.4	2,275.0	76.37	30.789		
10,100.0	7,441.0	10,061.9	7,471.0	45.4	43.6	90.73	-2,018.7	-1,093.1	2,351.3	2,271.7	79.64	29.525		
10,200.0	7,441.0	10,161.9	7,471.0	46.9	45.2	90.73	-2,118.7	-1,093.1	2,351.3	2,268.4	82.93	28.354		
10,300.0	7,441.0	10,261.9	7,471.0	48.4	46.7	90.73	-2,218.7	-1,093.1	2,351.3	2,265.1	86.23	27.267		
10,400.0	7,441.0	10,361.9	7,471.0	49.8	48.2	90.73	-2,318.7	-1,093.1	2,351.3	2,261.8	89.56	26.256		
10,500.0	7,441.0	10,461.9	7,471.0	51.3	49.8	90.73	-2,418.7	-1,093.1	2,351.3	2,258.4	92.89	25.313		
10,600.0	7,441.0	10,561.9	7,471.0	52.9	51.3	90.73	-2,518.7	-1,093.1	2,351.3	2,255.1	96.24	24.432		
10,700.0	7,441.0	10,661.9	7,471.0	54.4	52.9	90.73	-2,618.7	-1,093.1	2,351.3	2,251.7	99.60	23.608		
10,800.0	7,441.0	10,761.9	7,471.0	55.9	54.5	90.73	-2,718.7	-1,093.1	2,351.3	2,248.3	102.96	22.836		
10,900.0	7,441.0	10,861.9	7,471.0	57.5	56.1	90.73	-2,818.7	-1,093.1	2,351.3	2,245.0	106.34	22.111		
11,000.0	7,441.0	10,961.9	7,471.0	59.1	57.7	90.73	-2,918.7	-1,093.1	2,351.3	2,241.6	109.73	21.428		
11,100.0	7,441.0	11,061.9	7,471.0	60.7	59.3	90.73	-3,018.7	-1,093.1	2,351.3	2,238.2	113.12	20.786		
11,200.0	7,441.0	11,161.9	7,471.0	62.2	60.9	90.73	-3,118.7	-1,093.1	2,351.3	2,234.8	116.52	20.179		
11,300.0	7,441.0	11,261.9	7,471.0	63.8	62.6	90.73	-3,218.7	-1,093.1	2,351.3	2,231.3	119.93	19.606		
11,400.0	7,441.0	11,361.9	7,471.0	65.4	64.2	90.73	-3,318.7	-1,093.1	2,351.3	2,227.9	123.34	19.064		
11,500.0	7,441.0	11,461.9	7,471.0	67.1	65.9	90.73	-3,418.7	-1,093.0	2,351.3	2,224.5	126.75	18.550		
11,600.0	7,441.0	11,561.9	7,471.0	68.7	67.5	90.73	-3,518.7	-1,093.0	2,351.3	2,221.1	130.18	18.062		
11,700.0	7,441.0	11,661.9	7,471.0	70.3	69.2	90.73	-3,618.7	-1,093.0	2,351.2	2,217.6	133.60	17.599		
11,800.0	7,441.0	11,761.9	7,471.0	71.9	70.8	90.73	-3,718.7	-1,093.0	2,351.2	2,214.2	137.03	17.158		
11,900.0	7,441.0	11,861.9	7,471.0	73.6	72.5	90.73	-3,818.7	-1,093.0	2,351.2	2,210.8	140.47	16.739		
12,000.0	7,441.0	11,961.9	7,471.0	75.2	74.2	90.73	-3,918.7	-1,093.0	2,351.2	2,207.3	143.91	16.339		
12,100.0	7,441.0	12,061.9	7,471.0	76.9	75.8	90.73	-4,018.7	-1,093.0	2,351.2	2,203.9	147.35	15.957		
12,135.7	7,441.0	12,097.6	7,471.0	77.5	76.4	90.73	-4,054.4	-1,093.0	2,351.2	2,202.6	148.57	15.825 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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	
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-50.3	50.3					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-50.3	50.3	50.0	0.30	165.667	CC, ES	
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-50.3	50.3	49.7	0.65	77.075		
300.0	300.0	300.0	300.0	0.5	0.5	-149.53	0.0	-50.3	51.1	50.1	1.00	50.960		
400.0	400.0	399.3	399.3	0.7	0.7	-150.25	0.7	-50.9	53.9	52.6	1.35	39.898		
500.0	499.9	498.5	498.5	0.9	0.9	-150.46	2.5	-52.7	59.4	57.7	1.70	34.892		
600.0	599.7	597.4	597.3	1.1	1.0	-150.25	5.6	-55.6	67.7	65.6	2.06	32.807		
700.0	699.4	696.0	695.7	1.3	1.2	-149.77	10.0	-59.7	78.5	76.1	2.43	32.326		
800.0	798.9	794.1	793.5	1.5	1.4	-149.16	15.5	-65.0	92.1	89.2	2.81	32.793		
900.0	898.3	891.6	890.5	1.8	1.7	-148.51	22.2	-71.3	108.2	105.0	3.20	33.838		
1,000.0	997.4	988.4	986.8	2.0	1.9	-147.86	30.0	-78.7	127.0	123.4	3.60	35.239		
1,100.0	1,096.3	1,084.5	1,082.0	2.3	2.1	-147.24	38.9	-87.2	148.4	144.4	4.03	36.852		
1,200.0	1,194.9	1,179.7	1,176.2	2.7	2.4	-146.67	48.9	-96.7	172.4	168.0	4.47	38.580		
1,300.0	1,293.3	1,273.9	1,269.2	3.0	2.7	-146.15	59.9	-107.1	199.0	194.1	4.93	40.360		
1,400.0	1,391.2	1,367.1	1,360.9	3.4	3.0	-145.66	71.9	-118.5	228.1	222.7	5.41	42.147		
1,500.0	1,488.9	1,459.1	1,451.2	3.8	3.4	-145.22	84.8	-130.7	259.6	253.7	5.91	43.910		
1,600.0	1,586.1	1,550.0	1,540.1	4.2	3.7	-144.80	98.6	-143.8	293.6	287.2	6.44	45.630		
1,700.0	1,682.9	1,639.6	1,627.4	4.7	4.1	-144.40	113.1	-157.6	330.1	323.1	6.98	47.295		
1,800.0	1,779.3	1,727.8	1,713.1	5.2	4.5	-144.02	128.4	-172.1	368.8	361.3	7.54	48.896		
1,900.0	1,875.2	1,815.5	1,797.9	5.7	4.9	-143.66	144.6	-187.5	409.9	401.8	8.13	50.426		
2,000.0	1,970.8	1,906.2	1,885.5	6.3	5.3	-143.61	161.6	-203.6	452.0	443.2	8.74	51.685		
2,100.0	2,066.4	1,996.9	1,973.1	6.8	5.7	-143.57	178.6	-219.8	494.0	484.7	9.37	52.745		
2,200.0	2,162.1	2,087.7	2,060.8	7.3	6.2	-143.53	195.7	-235.9	536.1	526.1	9.99	53.648		
2,300.0	2,257.7	2,178.4	2,148.4	7.9	6.6	-143.50	212.7	-252.1	578.1	567.5	10.62	54.424		
2,400.0	2,353.3	2,269.1	2,236.0	8.4	7.0	-143.47	229.7	-268.3	620.2	608.9	11.26	55.099		
2,500.0	2,448.9	2,359.8	2,323.7	9.0	7.5	-143.45	246.8	-284.4	662.3	650.4	11.89	55.689		
2,600.0	2,544.6	2,450.6	2,411.3	9.5	7.9	-143.42	263.8	-300.6	704.3	691.8	12.53	56.209		
2,700.0	2,640.2	2,541.3	2,498.9	10.1	8.3	-143.41	280.8	-316.8	746.4	733.2	13.17	56.670		
2,800.0	2,735.8	2,632.0	2,586.6	10.6	8.8	-143.39	297.9	-332.9	788.4	774.6	13.81	57.082		
2,900.0	2,831.5	2,722.7	2,674.2	11.2	9.2	-143.37	314.9	-349.1	830.5	816.1	14.46	57.451		
3,000.0	2,927.1	2,813.4	2,761.8	11.7	9.6	-143.36	331.9	-365.3	872.6	857.5	15.10	57.785		
3,100.0	3,022.7	2,904.2	2,849.5	12.2	10.1	-143.35	349.0	-381.4	914.6	898.9	15.75	58.086		
3,200.0	3,118.4	2,994.9	2,937.1	12.8	10.5	-143.34	366.0	-397.6	956.7	940.3	16.39	58.361		
3,300.0	3,214.0	3,085.6	3,024.7	13.3	11.0	-143.33	383.0	-413.7	998.8	981.7	17.04	58.611		
3,400.0	3,309.6	3,176.3	3,112.4	13.9	11.4	-143.32	400.1	-429.9	1,040.8	1,023.1	17.69	58.841		
3,500.0	3,405.3	3,267.1	3,200.0	14.4	11.8	-143.31	417.1	-446.1	1,082.9	1,064.5	18.34	59.052		
3,600.0	3,500.9	3,357.8	3,287.6	15.0	12.3	-143.30	434.1	-462.2	1,124.9	1,106.0	18.99	59.247		
3,700.0	3,596.5	3,448.5	3,375.3	15.5	12.7	-143.29	451.2	-478.4	1,167.0	1,147.4	19.64	59.427		
3,800.0	3,692.1	3,539.2	3,462.9	16.1	13.2	-143.28	468.2	-494.6	1,209.1	1,188.8	20.29	59.594		
3,900.0	3,787.8	3,630.0	3,550.5	16.7	13.6	-143.28	485.2	-510.7	1,251.1	1,230.2	20.94	59.750		
4,000.0	3,883.4	3,720.7	3,638.2	17.2	14.0	-143.27	502.2	-526.9	1,293.2	1,271.6	21.59	59.895		
4,100.0	3,979.0	3,811.4	3,725.8	17.8	14.5	-143.27	519.3	-543.0	1,335.2	1,313.0	22.24	60.030		
4,200.0	4,074.7	3,902.1	3,813.4	18.3	14.9	-143.26	536.3	-559.2	1,377.3	1,354.4	22.90	60.157		
4,300.0	4,170.3	3,992.9	3,901.1	18.9	15.4	-143.26	553.3	-575.4	1,419.4	1,395.8	23.55	60.276		
4,400.0	4,265.9	4,083.6	3,988.7	19.4	15.8	-143.25	570.4	-591.5	1,461.4	1,437.2	24.20	60.388		
4,500.0	4,361.6	4,174.3	4,076.3	20.0	16.3	-143.25	587.4	-607.7	1,503.5	1,478.6	24.85	60.493		
4,600.0	4,457.2	4,285.5	4,184.0	20.5	16.8	-143.27	607.6	-626.9	1,545.0	1,519.4	25.56	60.454		
4,700.0	4,552.8	4,399.9	4,295.3	21.1	17.3	-143.35	626.9	-645.1	1,585.2	1,558.9	26.25	60.395		
4,800.0	4,648.5	4,515.8	4,408.5	21.6	17.7	-143.48	644.7	-662.0	1,624.0	1,597.1	26.92	60.339		
4,900.0	4,744.1	4,632.9	4,523.5	22.2	18.2	-143.67	661.0	-677.5	1,661.5	1,634.0	27.56	60.280		
5,000.0	4,839.7	4,751.3	4,640.1	22.7	18.6	-143.92	675.8	-691.5	1,697.6	1,669.4	28.19	60.223		
5,100.0	4,935.3	4,870.8	4,758.2	23.3	18.9	-144.21	688.9	-704.0	1,732.3	1,703.5	28.79	60.170		

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 1G-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 1G-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: 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)				
5,204.0	5,034.8	4,996.3	4,882.6	23.9	19.3	-144.56	700.7	-715.2	1,766.9	1,737.5	29.39	60.121		
5,300.0	5,126.8	5,113.3	4,998.9	24.4	19.5	-145.10	710.0	-724.1	1,796.9	1,767.0	29.96	59.978		
5,400.0	5,223.2	5,236.7	5,121.9	24.9	19.8	-145.64	717.9	-731.6	1,825.4	1,794.9	30.51	59.825		
5,500.0	5,320.0	5,361.5	5,246.3	25.3	20.0	-146.16	724.0	-737.3	1,851.1	1,820.1	31.02	59.666		
5,600.0	5,417.2	5,487.4	5,372.2	25.8	20.2	-146.68	728.1	-741.2	1,873.9	1,842.4	31.49	59.504		
5,700.0	5,514.8	5,614.4	5,499.1	26.2	20.3	-147.20	730.2	-743.2	1,893.8	1,861.9	31.91	59.341		
5,800.0	5,612.8	5,728.1	5,612.8	26.5	20.4	-147.66	730.5	-743.5	1,911.0	1,878.7	32.29	59.182		
5,900.0	5,711.1	5,826.4	5,711.1	26.9	20.5	-148.03	730.5	-743.5	1,926.6	1,893.9	32.64	59.025		
6,000.0	5,809.7	5,925.0	5,809.7	27.2	20.6	-148.37	730.5	-743.5	1,940.7	1,907.7	32.97	58.855		
6,100.0	5,908.6	6,023.9	5,908.6	27.5	20.7	-148.66	730.5	-743.5	1,953.4	1,920.1	33.30	58.669		
6,200.0	6,007.7	6,123.1	6,007.7	27.8	20.7	-148.92	730.5	-743.5	1,964.7	1,931.1	33.60	58.467		
6,300.0	6,107.1	6,222.4	6,107.1	28.0	20.8	-149.14	730.5	-743.5	1,974.5	1,940.6	33.90	58.246		
6,400.0	6,206.6	6,321.9	6,206.6	28.2	20.9	-149.32	730.5	-743.5	1,982.8	1,948.6	34.18	58.006		
6,500.0	6,306.3	6,421.6	6,306.3	28.4	21.0	-149.47	730.5	-743.5	1,989.6	1,955.1	34.45	57.746		
6,600.0	6,406.1	6,521.4	6,406.1	28.6	21.1	-149.59	730.5	-743.5	1,994.9	1,960.2	34.71	57.465		
6,700.0	6,506.0	6,621.3	6,506.0	28.7	21.2	-149.68	730.5	-743.5	1,998.7	1,963.8	34.96	57.164		
6,800.0	6,606.0	6,718.7	6,603.3	28.8	21.2	-149.83	726.8	-743.5	2,001.1	1,966.0	35.10	57.006		
6,904.0	6,710.0	6,816.4	6,699.5	28.9	21.1	-91.24	710.3	-743.5	2,002.2	1,967.2	35.02	57.179		
6,918.8	6,724.8	6,829.9	6,712.6	28.9	21.1	-91.33	707.0	-743.5	2,002.3	1,967.3	34.99	57.226		
6,950.0	6,756.0	6,858.0	6,739.6	28.9	21.0	88.44	699.4	-743.5	2,002.5	1,967.6	34.91	57.366		
7,000.0	6,805.8	6,902.6	6,781.8	28.9	20.9	88.10	685.0	-743.5	2,002.9	1,968.2	34.71	57.705		
7,050.0	6,855.2	6,946.6	6,822.5	28.8	20.8	87.76	668.4	-743.5	2,003.3	1,968.9	34.45	58.159		
7,100.0	6,904.0	6,990.0	6,861.6	28.8	20.6	87.44	649.5	-743.5	2,003.8	1,969.7	34.12	58.722		
7,150.0	6,952.0	7,032.9	6,899.1	28.7	20.5	87.13	628.5	-743.5	2,004.4	1,970.6	33.75	59.384		
7,200.0	6,998.8	7,075.4	6,934.8	28.6	20.3	86.83	605.6	-743.5	2,004.9	1,971.6	33.34	60.139		
7,250.0	7,044.3	7,117.4	6,968.8	28.5	20.1	86.54	580.9	-743.5	2,005.5	1,972.6	32.89	60.980		
7,300.0	7,088.2	7,159.1	7,001.0	28.3	19.9	86.27	554.5	-743.5	2,006.1	1,973.7	32.41	61.898		
7,350.0	7,130.4	7,200.0	7,031.1	28.2	19.8	86.01	526.8	-743.5	2,006.7	1,974.8	31.91	62.879		
7,400.0	7,170.6	7,241.4	7,059.8	28.0	19.6	85.77	497.0	-743.5	2,007.3	1,975.9	31.40	63.925		
7,450.0	7,208.6	7,282.0	7,086.4	27.8	19.4	85.55	466.2	-743.5	2,007.9	1,977.0	30.89	65.005		
7,500.0	7,244.3	7,322.5	7,111.0	27.7	19.2	85.34	434.2	-743.5	2,008.5	1,978.1	30.38	66.105		
7,550.0	7,277.4	7,362.7	7,133.6	27.5	19.0	85.16	400.9	-743.5	2,009.0	1,979.1	29.89	67.206		
7,600.0	7,307.8	7,400.0	7,153.0	27.3	18.9	85.00	369.0	-743.5	2,009.5	1,980.0	29.44	68.253		
7,650.0	7,335.4	7,442.5	7,172.9	27.2	18.7	84.85	331.5	-743.5	2,009.9	1,980.9	29.00	69.311		
7,700.0	7,360.0	7,482.1	7,189.5	27.0	18.6	84.72	295.5	-743.5	2,010.3	1,981.7	28.61	70.254		
7,750.0	7,381.6	7,521.7	7,204.0	26.9	18.5	84.62	258.7	-743.5	2,010.6	1,982.3	28.28	71.090		
7,800.0	7,399.9	7,561.1	7,216.4	26.8	18.4	84.54	221.3	-743.5	2,010.9	1,982.9	28.01	71.792		
7,850.0	7,414.9	7,600.0	7,226.7	26.7	18.3	84.48	183.8	-743.5	2,011.1	1,983.3	27.80	72.334		
7,900.0	7,426.6	7,639.8	7,235.0	26.6	18.2	84.44	144.9	-743.5	2,011.2	1,983.5	27.67	72.672		
7,950.0	7,434.9	7,679.1	7,241.1	26.5	18.2	84.43	106.1	-743.5	2,011.2	1,983.6	27.62	72.805		
8,000.0	7,439.7	7,718.4	7,245.1	26.5	18.2	84.43	67.0	-743.5	2,011.2	1,983.5	27.65	72.730		
8,043.8	7,441.0	7,752.8	7,246.8	26.5	18.2	84.46	32.6	-743.5	2,011.1	1,983.4	27.74	72.499		
8,076.7	7,441.0	7,780.7	7,247.0	26.5	18.3	84.46	4.7	-743.5	2,011.1	1,983.2	27.86	72.184		
8,100.0	7,441.0	7,804.0	7,247.0	26.6	18.3	84.46	-18.6	-743.5	2,011.1	1,983.1	27.97	71.909		
8,200.0	7,441.0	7,904.0	7,247.0	26.7	18.6	84.46	-118.6	-743.5	2,011.1	1,982.4	28.71	70.057		
8,300.0	7,441.0	8,004.0	7,247.0	27.0	19.0	84.46	-218.6	-743.5	2,011.1	1,981.2	29.84	67.398		
8,400.0	7,441.0	8,104.0	7,247.0	27.4	19.6	84.46	-318.6	-743.5	2,011.1	1,979.8	31.32	64.207		
8,500.0	7,441.0	8,204.0	7,247.0	27.8	20.3	84.46	-418.6	-743.5	2,011.1	1,978.0	33.11	60.744		
8,600.0	7,441.0	8,304.0	7,247.0	28.4	21.1	84.46	-518.6	-743.5	2,011.1	1,975.9	35.15	57.213		
8,700.0	7,441.0	8,404.0	7,247.0	29.1	22.1	84.46	-618.6	-743.5	2,011.1	1,973.7	37.41	53.759		
8,800.0	7,441.0	8,504.0	7,247.0	29.9	23.1	84.46	-718.6	-743.5	2,011.1	1,971.2	39.85	50.472		
8,900.0	7,441.0	8,604.0	7,247.0	30.8	24.3	84.46	-818.6	-743.5	2,011.1	1,968.6	42.43	47.397		

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 1G-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 1G-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		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)						
9,000.0	7,441.0	8,704.0	7,247.0	31.7	25.5	84.46	-918.6	-743.5	2,011.1	1,965.9	45.14	44.555		
9,100.0	7,441.0	8,804.0	7,247.0	32.7	26.7	84.46	-1,018.6	-743.5	2,011.1	1,963.1	47.94	41.945		
9,200.0	7,441.0	8,904.0	7,247.0	33.8	28.0	84.46	-1,118.6	-743.5	2,011.1	1,960.2	50.84	39.558		
9,300.0	7,441.0	9,004.0	7,247.0	34.9	29.4	84.46	-1,218.6	-743.5	2,011.0	1,957.2	53.80	37.379		
9,400.0	7,441.0	9,104.0	7,247.0	36.1	30.8	84.46	-1,318.6	-743.5	2,011.0	1,954.2	56.83	35.389		
9,500.0	7,441.0	9,204.0	7,247.0	37.3	32.2	84.46	-1,418.6	-743.5	2,011.0	1,951.1	59.90	33.573		
9,600.0	7,441.0	9,304.0	7,247.0	38.6	33.7	84.46	-1,518.6	-743.5	2,011.0	1,948.0	63.02	31.911		
9,700.0	7,441.0	9,404.0	7,247.0	39.9	35.2	84.46	-1,618.6	-743.5	2,011.0	1,944.9	66.18	30.389		
9,800.0	7,441.0	9,504.0	7,247.0	41.2	36.7	84.46	-1,718.6	-743.5	2,011.0	1,941.7	69.36	28.993		
9,900.0	7,441.0	9,604.0	7,247.0	42.6	38.3	84.46	-1,818.6	-743.5	2,011.0	1,938.5	72.58	27.708		
10,000.0	7,441.0	9,704.0	7,247.0	44.0	39.8	84.46	-1,918.6	-743.5	2,011.0	1,935.2	75.82	26.524		
10,100.0	7,441.0	9,804.0	7,247.0	45.4	41.4	84.46	-2,018.6	-743.5	2,011.0	1,931.9	79.08	25.430		
10,200.0	7,441.0	9,904.0	7,247.0	46.9	43.0	84.46	-2,118.6	-743.5	2,011.0	1,928.7	82.36	24.417		
10,300.0	7,441.0	10,004.0	7,247.0	48.4	44.6	84.46	-2,218.6	-743.6	2,011.0	1,925.4	85.66	23.477		
10,400.0	7,441.0	10,104.0	7,247.0	49.8	46.2	84.46	-2,318.6	-743.6	2,011.0	1,922.0	88.97	22.603		
10,500.0	7,441.0	10,204.0	7,247.0	51.3	47.8	84.46	-2,418.6	-743.6	2,011.0	1,918.7	92.30	21.788		
10,600.0	7,441.0	10,304.0	7,247.0	52.9	49.4	84.46	-2,518.6	-743.6	2,011.0	1,915.4	95.64	21.028		
10,700.0	7,441.0	10,404.0	7,247.0	54.4	51.0	84.46	-2,618.6	-743.6	2,011.0	1,912.0	98.98	20.317		
10,800.0	7,441.0	10,504.0	7,247.0	55.9	52.7	84.46	-2,718.6	-743.6	2,011.0	1,908.7	102.34	19.650		
10,900.0	7,441.0	10,604.0	7,247.0	57.5	54.3	84.46	-2,818.6	-743.6	2,011.0	1,905.3	105.71	19.024		
11,000.0	7,441.0	10,704.0	7,247.0	59.1	56.0	84.46	-2,918.6	-743.6	2,011.0	1,901.9	109.08	18.436		
11,100.0	7,441.0	10,804.0	7,247.0	60.7	57.7	84.46	-3,018.6	-743.6	2,011.0	1,898.5	112.46	17.881		
11,200.0	7,441.0	10,904.0	7,247.0	62.2	59.3	84.46	-3,118.6	-743.6	2,011.0	1,895.1	115.85	17.358		
11,300.0	7,441.0	11,004.0	7,247.0	63.8	61.0	84.46	-3,218.6	-743.6	2,011.0	1,891.7	119.24	16.864		
11,400.0	7,441.0	11,104.0	7,247.0	65.4	62.7	84.46	-3,318.6	-743.6	2,011.0	1,888.3	122.64	16.397		
11,500.0	7,441.0	11,204.0	7,247.0	67.1	64.4	84.46	-3,418.6	-743.6	2,011.0	1,884.9	126.05	15.954		
11,600.0	7,441.0	11,304.0	7,247.0	68.7	66.0	84.46	-3,518.6	-743.6	2,011.0	1,881.5	129.46	15.534		
11,700.0	7,441.0	11,404.0	7,247.0	70.3	67.7	84.46	-3,618.6	-743.6	2,011.0	1,878.1	132.87	15.135		
11,800.0	7,441.0	11,504.0	7,247.0	71.9	69.4	84.46	-3,718.6	-743.6	2,011.0	1,874.7	136.29	14.755		
11,900.0	7,441.0	11,604.0	7,247.0	73.6	71.1	84.46	-3,818.6	-743.6	2,011.0	1,871.3	139.71	14.394		
12,000.0	7,441.0	11,704.0	7,247.0	75.2	72.8	84.46	-3,918.6	-743.6	2,011.0	1,867.8	143.13	14.049		
12,100.0	7,441.0	11,804.0	7,247.0	76.9	74.5	84.46	-4,018.6	-743.6	2,011.0	1,864.4	146.56	13.721		
12,135.7	7,441.0	11,839.7	7,247.0	77.5	75.1	84.46	-4,054.3	-743.6	2,011.0	1,863.2	147.79	13.607 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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			
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-39.1	39.1						
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-39.1	39.1	38.8	0.30	128.852			
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-39.1	39.1	38.5	0.65	59.947	CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-149.67	0.0	-39.1	39.9	38.9	1.00	39.803			
400.0	400.0	400.0	400.0	0.7	0.7	-151.46	0.0	-39.1	42.2	40.8	1.35	31.187			
500.0	499.9	499.6	499.6	0.9	0.8	-153.00	0.8	-39.5	46.3	44.6	1.70	27.195			
600.0	599.7	599.1	599.1	1.1	1.0	-153.30	3.2	-40.5	52.6	50.5	2.06	25.545			
700.0	699.4	698.5	698.3	1.3	1.2	-152.71	7.2	-42.1	60.9	58.5	2.42	25.161			
800.0	798.9	797.5	797.2	1.5	1.4	-151.58	12.8	-44.4	71.4	68.6	2.80	25.516			
900.0	898.3	896.3	895.6	1.8	1.6	-150.20	19.9	-47.3	84.1	80.9	3.19	26.316			
1,000.0	997.4	994.5	993.5	2.0	1.8	-148.75	28.5	-50.9	98.8	95.2	3.61	27.379			
1,100.0	1,096.3	1,092.3	1,090.7	2.3	2.1	-147.34	38.6	-55.1	115.8	111.7	4.05	28.588			
1,200.0	1,194.9	1,189.6	1,187.1	2.7	2.3	-146.01	50.2	-59.9	134.9	130.4	4.52	29.864			
1,300.0	1,293.3	1,286.2	1,282.7	3.0	2.6	-144.79	63.2	-65.3	156.2	151.2	5.02	31.154			
1,400.0	1,391.2	1,382.1	1,377.3	3.4	2.9	-143.68	77.6	-71.3	179.7	174.2	5.54	32.424			
1,500.0	1,488.9	1,477.2	1,470.9	3.8	3.2	-142.66	93.3	-77.8	205.3	199.2	6.10	33.650			
1,600.0	1,586.1	1,571.6	1,563.4	4.2	3.5	-141.74	110.3	-84.8	233.1	226.4	6.69	34.820			
1,700.0	1,682.9	1,665.0	1,654.8	4.7	3.9	-140.89	128.5	-92.4	262.9	255.6	7.32	35.928			
1,800.0	1,779.3	1,757.5	1,744.9	5.2	4.3	-140.12	147.9	-100.4	294.8	286.8	7.97	36.971			
1,900.0	1,875.2	1,850.5	1,835.1	5.7	4.7	-139.43	168.6	-108.9	328.6	320.0	8.66	37.953			
2,000.0	1,970.8	1,944.3	1,926.1	6.3	5.1	-139.12	189.5	-117.6	363.2	353.8	9.36	38.782			
2,100.0	2,066.4	2,038.1	2,017.2	6.8	5.5	-138.87	210.5	-126.3	397.7	387.6	10.08	39.468			
2,200.0	2,162.1	2,132.0	2,108.2	7.3	5.9	-138.66	231.5	-135.0	432.3	421.5	10.80	40.044			
2,300.0	2,257.7	2,225.8	2,199.2	7.9	6.3	-138.48	252.4	-143.7	466.9	455.3	11.52	40.533			
2,400.0	2,353.3	2,319.6	2,290.3	8.4	6.7	-138.32	273.4	-152.4	501.4	489.2	12.24	40.951			
2,500.0	2,448.9	2,413.4	2,381.3	9.0	7.1	-138.19	294.4	-161.1	536.0	523.0	12.97	41.314			
2,600.0	2,544.6	2,507.3	2,472.4	9.5	7.6	-138.07	315.3	-169.7	570.6	556.9	13.71	41.629			
2,700.0	2,640.2	2,601.1	2,563.4	10.1	8.0	-137.97	336.3	-178.4	605.2	590.7	14.44	41.907			
2,800.0	2,735.8	2,694.9	2,654.4	10.6	8.4	-137.87	357.3	-187.1	639.7	624.6	15.18	42.152			
2,900.0	2,831.5	2,788.7	2,745.5	11.2	8.8	-137.79	378.3	-195.8	674.3	658.4	15.91	42.371			
3,000.0	2,927.1	2,882.6	2,836.5	11.7	9.3	-137.71	399.2	-204.5	708.9	692.3	16.65	42.567			
3,100.0	3,022.7	2,976.4	2,927.5	12.2	9.7	-137.64	420.2	-213.2	743.5	726.1	17.39	42.743			
3,200.0	3,118.4	3,070.2	3,018.6	12.8	10.1	-137.58	441.2	-221.9	778.1	759.9	18.14	42.902			
3,300.0	3,214.0	3,164.0	3,109.6	13.3	10.5	-137.52	462.1	-230.5	812.7	793.8	18.88	43.047			
3,400.0	3,309.6	3,257.9	3,200.7	13.9	10.9	-137.47	483.1	-239.2	847.3	827.6	19.62	43.179			
3,500.0	3,405.3	3,351.7	3,291.7	14.4	11.4	-137.42	504.1	-247.9	881.8	861.5	20.37	43.299			
3,600.0	3,500.9	3,445.5	3,382.7	15.0	11.8	-137.38	525.1	-256.6	916.4	895.3	21.11	43.410			
3,700.0	3,596.5	3,539.3	3,473.8	15.5	12.2	-137.33	546.0	-265.3	951.0	929.2	21.86	43.512			
3,800.0	3,692.1	3,633.2	3,564.8	16.1	12.7	-137.30	567.0	-274.0	985.6	963.0	22.60	43.607			
3,900.0	3,787.8	3,731.9	3,660.7	16.7	13.1	-137.27	588.9	-283.0	1,020.1	996.7	23.36	43.671			
4,000.0	3,883.4	3,836.2	3,762.3	17.2	13.5	-137.32	610.5	-292.0	1,053.8	1,029.7	24.11	43.715			
4,100.0	3,979.0	3,941.0	3,864.9	17.8	13.9	-137.47	630.5	-300.3	1,086.5	1,061.7	24.83	43.766			
4,200.0	4,074.7	4,046.5	3,968.5	18.3	14.3	-137.69	648.8	-307.9	1,118.4	1,092.8	25.52	43.825			
4,300.0	4,170.3	4,152.6	4,073.0	18.9	14.7	-137.98	665.5	-314.8	1,149.3	1,123.1	26.18	43.895			
4,400.0	4,265.9	4,259.1	4,178.2	19.4	15.0	-138.35	680.5	-321.0	1,179.3	1,152.5	26.82	43.979			
4,500.0	4,361.6	4,365.9	4,284.2	20.0	15.3	-138.78	693.6	-326.4	1,208.5	1,181.1	27.42	44.077			
4,600.0	4,457.2	4,473.1	4,390.7	20.5	15.5	-139.27	705.0	-331.2	1,236.8	1,208.8	27.99	44.194			
4,700.0	4,552.8	4,580.6	4,497.6	21.1	15.8	-139.82	714.6	-335.1	1,264.3	1,235.7	28.52	44.332			
4,800.0	4,648.5	4,688.2	4,604.9	21.6	16.0	-140.43	722.3	-338.3	1,290.9	1,261.9	29.01	44.493			
4,900.0	4,744.1	4,795.9	4,712.4	22.2	16.2	-141.08	728.2	-340.7	1,316.8	1,287.3	29.47	44.681			
5,000.0	4,839.7	4,903.7	4,820.1	22.7	16.3	-141.79	732.2	-342.4	1,342.0	1,312.1	29.89	44.900			
5,100.0	4,935.3	5,011.3	4,927.7	23.3	16.4	-142.55	734.3	-343.3	1,366.4	1,336.2	30.26	45.153			

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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: 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)				
5,204.0	5,034.8	5,118.4	5,034.8	23.9	16.5	-143.34	734.7	-343.4	1,391.3	1,360.6	30.62	45.440		
5,300.0	5,126.8	5,210.5	5,126.8	24.4	16.6	-144.13	734.7	-343.4	1,413.6	1,382.6	30.96	45.654		
5,400.0	5,223.2	5,306.8	5,223.2	24.9	16.7	-144.88	734.7	-343.4	1,435.7	1,404.4	31.31	45.858		
5,500.0	5,320.0	5,403.6	5,320.0	25.3	16.8	-145.56	734.7	-343.4	1,456.5	1,424.9	31.64	46.039		
5,600.0	5,417.2	5,500.8	5,417.2	25.8	16.9	-146.18	734.7	-343.4	1,476.1	1,444.1	31.95	46.195		
5,700.0	5,514.8	5,598.4	5,514.8	26.2	17.0	-146.74	734.7	-343.4	1,494.3	1,462.0	32.26	46.322		
5,800.0	5,612.8	5,696.4	5,612.8	26.5	17.1	-147.25	734.7	-343.4	1,511.2	1,478.6	32.55	46.420		
5,900.0	5,711.1	5,794.7	5,711.1	26.9	17.2	-147.70	734.7	-343.4	1,526.7	1,493.8	32.84	46.487		
6,000.0	5,809.7	5,893.3	5,809.7	27.2	17.3	-148.10	734.7	-343.4	1,540.8	1,507.6	33.12	46.523		
6,100.0	5,908.6	5,992.2	5,908.6	27.5	17.4	-148.46	734.7	-343.4	1,553.4	1,520.0	33.39	46.526		
6,200.0	6,007.7	6,091.4	6,007.7	27.8	17.5	-148.77	734.7	-343.4	1,564.7	1,531.0	33.65	46.496		
6,300.0	6,107.1	6,190.7	6,107.1	28.0	17.6	-149.03	734.7	-343.4	1,574.4	1,540.5	33.91	46.433		
6,400.0	6,206.6	6,290.2	6,206.6	28.2	17.7	-149.26	734.7	-343.4	1,582.7	1,548.6	34.16	46.337		
6,500.0	6,306.3	6,389.9	6,306.3	28.4	17.8	-149.44	734.7	-343.4	1,589.5	1,555.1	34.40	46.206		
6,600.0	6,406.1	6,489.7	6,406.1	28.6	17.9	-149.58	734.7	-343.4	1,594.9	1,560.2	34.64	46.043		
6,700.0	6,506.0	6,589.6	6,506.0	28.7	18.0	-149.68	734.7	-343.4	1,598.7	1,563.8	34.87	45.846		
6,800.0	6,606.0	6,689.6	6,606.0	28.8	18.2	-149.74	734.7	-343.4	1,601.0	1,565.9	35.10	45.615		
6,904.0	6,710.0	6,793.6	6,710.0	28.9	18.3	-90.68	734.7	-343.4	1,601.8	1,566.5	35.33	45.342		
6,918.8	6,724.8	6,808.4	6,724.8	28.9	18.3	-90.68	734.7	-343.4	1,601.8	1,566.5	35.36	45.298		
6,950.0	6,756.0	6,839.5	6,755.9	28.9	18.3	89.34	734.7	-343.4	1,601.8	1,566.4	35.42	45.217		
7,000.0	6,805.8	6,888.3	6,804.7	28.9	18.3	89.42	733.0	-343.4	1,601.8	1,566.3	35.44	45.192		
7,050.0	6,855.2	6,937.2	6,853.3	28.8	18.3	89.50	727.9	-343.4	1,601.8	1,566.4	35.38	45.271		
7,100.0	6,904.0	6,986.3	6,901.6	28.8	18.3	89.58	719.5	-343.4	1,601.7	1,566.5	35.24	45.454		
7,150.0	6,952.0	7,035.5	6,949.4	28.7	18.2	89.67	707.8	-343.4	1,601.7	1,566.7	35.02	45.738		
7,200.0	6,998.8	7,084.9	6,996.4	28.6	18.0	89.75	692.7	-343.4	1,601.7	1,567.0	34.73	46.121		
7,250.0	7,044.3	7,134.4	7,042.5	28.5	17.8	89.84	674.4	-343.4	1,601.7	1,567.3	34.37	46.602		
7,300.0	7,088.2	7,184.1	7,087.2	28.3	17.6	89.93	652.9	-343.4	1,601.7	1,567.8	33.95	47.176		
7,333.2	7,116.4	7,217.2	7,116.2	28.2	17.5	89.98	636.8	-343.4	1,601.7	1,568.1	33.64	47.610		
7,350.0	7,130.4	7,234.0	7,130.6	28.2	17.4	90.01	628.2	-343.4	1,601.7	1,568.2	33.48	47.840		
7,400.0	7,170.6	7,284.1	7,172.2	28.0	17.2	90.10	600.5	-343.5	1,601.7	1,568.7	32.97	48.586		
7,450.0	7,208.6	7,334.3	7,212.0	27.8	16.9	90.19	569.8	-343.5	1,601.7	1,569.3	32.42	49.408		
7,500.0	7,244.3	7,384.7	7,249.6	27.7	16.6	90.28	536.3	-343.5	1,601.7	1,569.9	31.85	50.292		
7,550.0	7,277.4	7,435.3	7,284.9	27.5	16.4	90.37	500.1	-343.5	1,601.7	1,570.5	31.27	51.223		
7,600.0	7,307.8	7,486.0	7,317.7	27.3	16.1	90.45	461.3	-343.5	1,601.8	1,571.1	30.70	52.181		
7,650.0	7,335.4	7,536.9	7,347.7	27.2	15.8	90.53	420.2	-343.5	1,601.8	1,571.6	30.14	53.141		
7,700.0	7,360.0	7,588.0	7,374.9	27.0	15.6	90.61	376.9	-343.5	1,601.8	1,572.2	29.62	54.073		
7,750.0	7,381.6	7,639.3	7,398.9	26.9	15.4	90.69	331.7	-343.5	1,601.8	1,572.7	29.15	54.944		
7,800.0	7,399.9	7,690.7	7,419.7	26.8	15.2	90.76	284.7	-343.5	1,601.9	1,573.1	28.75	55.714		
7,850.0	7,414.9	7,742.3	7,437.1	26.7	15.0	90.83	236.2	-343.5	1,601.9	1,573.5	28.43	56.348		
7,900.0	7,426.6	7,794.0	7,451.1	26.6	14.9	90.90	186.4	-343.5	1,601.9	1,573.7	28.20	56.807		
7,950.0	7,434.9	7,845.8	7,461.4	26.5	14.8	90.96	135.6	-343.5	1,601.9	1,573.9	28.07	57.063		
8,000.0	7,439.7	7,897.8	7,468.0	26.5	14.8	91.02	84.0	-343.5	1,602.0	1,573.9	28.06	57.094		
8,043.8	7,441.0	7,943.5	7,470.7	26.5	14.8	91.06	38.4	-343.5	1,602.0	1,573.9	28.14	56.923		
8,100.0	7,441.0	8,000.5	7,471.0	26.6	14.9	91.07	-18.6	-343.5	1,602.0	1,573.6	28.37	56.465		
8,200.0	7,441.0	8,100.5	7,471.0	26.7	15.3	91.07	-118.6	-343.5	1,602.0	1,572.9	29.11	55.036		
8,300.0	7,441.0	8,200.5	7,471.0	27.0	15.8	91.07	-218.6	-343.5	1,602.0	1,571.8	30.24	52.983		
8,400.0	7,441.0	8,300.5	7,471.0	27.4	16.5	91.07	-318.6	-343.5	1,602.0	1,570.3	31.71	50.514		
8,500.0	7,441.0	8,400.5	7,471.0	27.8	17.4	91.07	-418.6	-343.5	1,602.0	1,568.5	33.50	47.828		
8,600.0	7,441.0	8,500.5	7,471.0	28.4	18.4	91.07	-518.6	-343.5	1,602.0	1,566.5	35.53	45.083		
8,700.0	7,441.0	8,600.5	7,471.0	29.1	19.5	91.07	-618.6	-343.6	1,602.0	1,564.2	37.79	42.393		
8,800.0	7,441.0	8,700.5	7,471.0	29.9	20.7	91.07	-718.6	-343.6	1,602.0	1,561.8	40.22	39.827		
8,900.0	7,441.0	8,800.5	7,471.0	30.8	21.9	91.07	-818.6	-343.6	1,602.0	1,559.2	42.81	37.423		

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 1G-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 1G-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	
9,000.0	7,441.0	8,900.5	7,471.0	31.7	23.2	91.07	-918.6	-343.6	1,602.0	1,556.5	45.52	35.196	
9,100.0	7,441.0	9,000.5	7,471.0	32.7	24.6	91.07	-1,018.6	-343.6	1,602.0	1,553.7	48.33	33.149	
9,200.0	7,441.0	9,100.5	7,471.0	33.8	26.0	91.07	-1,118.6	-343.6	1,602.0	1,550.8	51.22	31.275	
9,300.0	7,441.0	9,200.5	7,471.0	34.9	27.5	91.07	-1,218.6	-343.6	1,602.0	1,547.8	54.19	29.561	
9,400.0	7,441.0	9,300.5	7,471.0	36.1	29.0	91.07	-1,318.6	-343.6	1,602.0	1,544.8	57.22	27.996	
9,500.0	7,441.0	9,400.5	7,471.0	37.3	30.5	91.07	-1,418.6	-343.6	1,602.0	1,541.7	60.31	26.566	
9,600.0	7,441.0	9,500.5	7,471.0	38.6	32.1	91.07	-1,518.6	-343.6	1,602.0	1,538.6	63.43	25.256	
9,700.0	7,441.0	9,600.5	7,471.0	39.9	33.6	91.07	-1,618.6	-343.6	1,602.0	1,535.5	66.60	24.056	
9,800.0	7,441.0	9,700.5	7,471.0	41.2	35.2	91.07	-1,718.6	-343.6	1,602.0	1,532.3	69.79	22.955	
9,900.0	7,441.0	9,800.5	7,471.0	42.6	36.8	91.07	-1,818.6	-343.7	1,602.1	1,529.0	73.02	21.941	
10,000.0	7,441.0	9,900.5	7,471.0	44.0	38.4	91.07	-1,918.6	-343.7	1,602.1	1,525.8	76.27	21.006	
10,100.0	7,441.0	10,000.5	7,471.0	45.4	40.1	91.07	-2,018.6	-343.7	1,602.1	1,522.5	79.54	20.142	
10,200.0	7,441.0	10,100.5	7,471.0	46.9	41.7	91.07	-2,118.6	-343.7	1,602.1	1,519.2	82.83	19.341	
10,300.0	7,441.0	10,200.5	7,471.0	48.4	43.3	91.07	-2,218.6	-343.7	1,602.1	1,515.9	86.14	18.598	
10,400.0	7,441.0	10,300.5	7,471.0	49.8	45.0	91.07	-2,318.6	-343.7	1,602.1	1,512.6	89.46	17.908	
10,500.0	7,441.0	10,400.5	7,471.0	51.3	46.6	91.07	-2,418.6	-343.7	1,602.1	1,509.3	92.80	17.264	
10,600.0	7,441.0	10,500.5	7,471.0	52.9	48.3	91.07	-2,518.6	-343.7	1,602.1	1,505.9	96.15	16.662	
10,700.0	7,441.0	10,600.5	7,471.0	54.4	50.0	91.07	-2,618.6	-343.7	1,602.1	1,502.6	99.51	16.100	
10,800.0	7,441.0	10,700.5	7,471.0	55.9	51.7	91.07	-2,718.6	-343.7	1,602.1	1,499.2	102.88	15.572	
10,900.0	7,441.0	10,800.5	7,471.0	57.5	53.3	91.07	-2,818.6	-343.7	1,602.1	1,495.8	106.26	15.077	
11,000.0	7,441.0	10,900.5	7,471.0	59.1	55.0	91.07	-2,918.6	-343.8	1,602.1	1,492.4	109.65	14.611	
11,100.0	7,441.0	11,000.5	7,471.0	60.7	56.7	91.07	-3,018.6	-343.8	1,602.1	1,489.0	113.04	14.173	
11,200.0	7,441.0	11,100.5	7,471.0	62.2	58.4	91.07	-3,118.6	-343.8	1,602.1	1,485.6	116.44	13.759	
11,300.0	7,441.0	11,200.5	7,471.0	63.8	60.1	91.07	-3,218.6	-343.8	1,602.1	1,482.2	119.85	13.368	
11,400.0	7,441.0	11,300.5	7,471.0	65.4	61.8	91.07	-3,318.6	-343.8	1,602.1	1,478.8	123.26	12.998	
11,500.0	7,441.0	11,400.5	7,471.0	67.1	63.5	91.07	-3,418.6	-343.8	1,602.1	1,475.4	126.68	12.647	
11,600.0	7,441.0	11,500.5	7,471.0	68.7	65.2	91.07	-3,518.6	-343.8	1,602.1	1,472.0	130.10	12.314	
11,700.0	7,441.0	11,600.5	7,471.0	70.3	66.9	91.07	-3,618.6	-343.8	1,602.1	1,468.6	133.53	11.998	
11,800.0	7,441.0	11,700.5	7,471.0	71.9	68.6	91.07	-3,718.6	-343.8	1,602.1	1,465.1	136.96	11.698	
11,900.0	7,441.0	11,800.5	7,471.0	73.6	70.4	91.07	-3,818.6	-343.8	1,602.1	1,461.7	140.39	11.411	
12,000.0	7,441.0	11,900.5	7,471.0	75.2	72.1	91.07	-3,918.6	-343.8	1,602.1	1,458.3	143.83	11.139	
12,100.0	7,441.0	12,000.5	7,471.0	76.9	73.8	91.07	-4,018.6	-343.8	1,602.1	1,454.8	147.27	10.878	
12,135.7	7,441.0	12,036.2	7,471.0	77.5	74.4	91.07	-4,054.2	-343.8	1,602.1	1,453.6	148.50	10.788 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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 1D-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	300.0	300.0	0.5	0.5	-149.85	0.0	-30.7	31.5	30.5	1.00	31.435		
400.0	400.0	400.0	400.0	0.7	0.7	-152.07	0.0	-30.7	33.8	32.4	1.35	24.993		
500.0	499.9	499.9	499.9	0.9	0.8	-155.16	0.0	-30.7	37.7	36.0	1.70	22.145		
600.0	599.7	599.9	599.9	1.1	1.0	-157.42	0.9	-30.6	43.1	41.0	2.05	20.973		
700.0	699.4	699.9	699.8	1.3	1.2	-157.97	3.5	-30.3	49.6	47.2	2.41	20.600		
800.0	798.9	799.8	799.7	1.5	1.4	-157.34	7.8	-29.8	57.3	54.6	2.77	20.670		
900.0	898.3	899.7	899.4	1.8	1.6	-155.98	13.9	-29.1	66.2	63.1	3.15	20.998		
1,000.0	997.4	999.4	998.8	2.0	1.8	-154.21	21.6	-28.2	76.3	72.8	3.55	21.473		
1,100.0	1,096.3	1,099.0	1,097.9	2.3	2.0	-152.24	31.1	-27.0	87.7	83.7	3.98	22.018		
1,200.0	1,194.9	1,198.4	1,196.7	2.7	2.2	-150.21	42.2	-25.7	100.4	96.0	4.45	22.584		
1,300.0	1,293.3	1,297.6	1,295.0	3.0	2.5	-148.21	55.1	-24.1	114.5	109.5	4.95	23.137		
1,400.0	1,391.2	1,396.5	1,392.9	3.4	2.8	-146.29	69.5	-22.4	129.9	124.4	5.49	23.655		
1,500.0	1,488.9	1,495.2	1,490.2	3.8	3.1	-144.48	85.6	-20.5	146.8	140.7	6.08	24.129		
1,600.0	1,586.1	1,593.5	1,586.9	4.2	3.4	-142.78	103.3	-18.3	165.1	158.4	6.72	24.553		
1,700.0	1,682.9	1,691.4	1,682.9	4.7	3.7	-141.20	122.6	-16.0	184.9	177.4	7.41	24.930		
1,800.0	1,779.3	1,789.0	1,778.2	5.2	4.1	-139.73	143.4	-13.5	206.0	197.9	8.16	25.262		
1,900.0	1,875.2	1,886.4	1,873.0	5.7	4.5	-138.53	165.1	-10.9	228.6	219.7	8.92	25.618		
2,000.0	1,970.8	1,983.6	1,967.7	6.3	4.9	-137.80	186.8	-8.3	251.9	242.2	9.70	25.957		
2,100.0	2,066.4	2,080.8	2,062.5	6.8	5.3	-137.20	208.5	-5.7	275.2	264.7	10.49	26.226		
2,200.0	2,162.1	2,178.0	2,157.2	7.3	5.7	-136.70	230.2	-3.1	298.6	287.3	11.29	26.443		
2,300.0	2,257.7	2,275.2	2,251.9	7.9	6.1	-136.26	252.0	-0.5	321.9	309.8	12.09	26.621		
2,400.0	2,353.3	2,372.4	2,346.6	8.4	6.5	-135.89	273.7	2.1	345.3	332.4	12.90	26.769		
2,500.0	2,448.9	2,469.6	2,441.3	9.0	6.9	-135.56	295.4	4.7	368.7	355.0	13.71	26.892		
2,600.0	2,544.6	2,566.8	2,536.0	9.5	7.3	-135.27	317.1	7.3	392.1	377.5	14.52	26.997		
2,700.0	2,640.2	2,664.0	2,630.8	10.1	7.7	-135.01	338.8	10.0	415.5	400.1	15.34	27.087		
2,800.0	2,735.8	2,761.2	2,725.5	10.6	8.1	-134.79	360.5	12.6	438.9	422.7	16.16	27.164		
2,900.0	2,831.5	2,858.4	2,820.2	11.2	8.5	-134.58	382.2	15.2	462.3	445.3	16.98	27.232		
3,000.0	2,927.1	2,955.6	2,914.9	11.7	8.9	-134.39	403.9	17.8	485.7	467.9	17.80	27.290		
3,100.0	3,022.7	3,052.9	3,009.6	12.2	9.3	-134.23	425.6	20.4	509.1	490.5	18.62	27.342		
3,200.0	3,118.4	3,150.1	3,104.3	12.8	9.7	-134.07	447.4	23.0	532.5	513.1	19.44	27.388		
3,300.0	3,214.0	3,247.3	3,199.1	13.3	10.2	-133.93	469.1	25.6	556.0	535.7	20.27	27.429		
3,400.0	3,309.6	3,344.5	3,293.8	13.9	10.6	-133.80	490.8	28.2	579.4	558.3	21.10	27.466		
3,500.0	3,405.3	3,441.7	3,388.5	14.4	11.0	-133.68	512.5	30.8	602.8	580.9	21.92	27.499		
3,600.0	3,500.9	3,538.9	3,483.2	15.0	11.4	-133.57	534.2	33.4	626.3	603.5	22.75	27.528		
3,700.0	3,596.5	3,636.1	3,577.9	15.5	11.8	-133.47	555.9	36.0	649.7	626.1	23.58	27.555		
3,800.0	3,692.1	3,733.3	3,672.6	16.1	12.2	-133.37	577.6	38.6	673.2	648.7	24.41	27.580		
3,900.0	3,787.8	3,830.8	3,767.6	16.7	12.6	-133.29	599.4	41.3	696.6	671.4	25.23	27.605		
4,000.0	3,883.4	3,929.6	3,864.1	17.2	13.0	-133.29	620.4	43.8	719.9	693.9	26.03	27.655		
4,100.0	3,979.0	4,028.5	3,961.1	17.8	13.4	-133.43	639.7	46.1	743.0	716.2	26.79	27.738		
4,200.0	4,074.7	4,127.5	4,058.4	18.3	13.7	-133.69	657.4	48.2	765.9	738.4	27.50	27.854		
4,300.0	4,170.3	4,226.3	4,156.0	18.9	14.1	-134.07	673.4	50.1	788.5	760.4	28.16	28.002		
4,400.0	4,265.9	4,325.1	4,253.7	19.4	14.3	-134.54	687.7	51.9	811.1	782.3	28.78	28.182		
4,500.0	4,361.6	4,423.7	4,351.5	20.0	14.6	-135.11	700.3	53.4	833.5	804.1	29.35	28.396		
4,600.0	4,457.2	4,522.2	4,449.3	20.5	14.9	-135.76	711.2	54.7	855.8	826.0	29.88	28.645		
4,700.0	4,552.8	4,620.3	4,547.0	21.1	15.1	-136.48	720.5	55.8	878.1	847.8	30.35	28.932		
4,800.0	4,648.5	4,718.1	4,644.5	21.6	15.3	-137.28	728.0	56.7	900.5	869.7	30.78	29.257		
4,900.0	4,744.1	4,815.5	4,741.7	22.2	15.4	-138.14	733.9	57.4	922.9	891.7	31.15	29.624		
5,000.0	4,839.7	4,912.5	4,838.6	22.7	15.6	-139.06	738.1	57.9	945.4	913.9	31.48	30.034		
5,100.0	4,935.3	5,008.9	4,935.0	23.3	15.7	-140.03	740.7	58.2	968.1	936.4	31.75	30.491		

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 1G-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 1G-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 1D-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)				
5,204.0	5,034.8	5,108.7	5,034.8	23.9	15.8	-141.08	741.7	58.3	992.0	960.0	31.98	31.017		
5,300.0	5,126.8	5,200.7	5,126.8	24.4	15.9	-142.17	741.7	58.3	1,013.8	981.6	32.18	31.507		
5,400.0	5,223.2	5,297.1	5,223.2	24.9	16.0	-143.20	741.7	58.3	1,035.4	1,003.0	32.37	31.983		
5,500.0	5,320.0	5,393.9	5,320.0	25.3	16.1	-144.13	741.7	58.3	1,055.8	1,023.3	32.56	32.423		
5,600.0	5,417.2	5,491.1	5,417.2	25.8	16.2	-144.97	741.7	58.3	1,075.1	1,042.3	32.75	32.822		
5,700.0	5,514.8	5,588.7	5,514.8	26.2	16.3	-145.72	741.7	58.3	1,093.1	1,060.1	32.94	33.180		
5,800.0	5,612.8	5,686.7	5,612.8	26.5	16.4	-146.39	741.7	58.3	1,109.8	1,076.6	33.13	33.494		
5,900.0	5,711.1	5,785.0	5,711.1	26.9	16.5	-146.99	741.7	58.3	1,125.1	1,091.8	33.32	33.763		
6,000.0	5,809.7	5,883.6	5,809.7	27.2	16.6	-147.52	741.7	58.3	1,139.1	1,105.6	33.52	33.987		
6,100.0	5,908.6	5,982.5	5,908.6	27.5	16.7	-147.98	741.7	58.3	1,151.7	1,118.0	33.71	34.165		
6,200.0	6,007.7	6,081.6	6,007.7	27.8	16.8	-148.38	741.7	58.3	1,162.9	1,129.0	33.91	34.297		
6,300.0	6,107.1	6,181.0	6,107.1	28.0	16.9	-148.73	741.7	58.3	1,172.6	1,138.5	34.11	34.383		
6,400.0	6,206.6	6,280.5	6,206.6	28.2	17.0	-149.01	741.7	58.3	1,180.9	1,146.6	34.31	34.422		
6,500.0	6,306.3	6,380.2	6,306.3	28.4	17.1	-149.24	741.7	58.3	1,187.7	1,153.2	34.51	34.417		
6,600.0	6,406.1	6,480.0	6,406.1	28.6	17.2	-149.42	741.7	58.3	1,193.0	1,158.3	34.72	34.366		
6,700.0	6,506.0	6,579.9	6,506.0	28.7	17.4	-149.55	741.7	58.3	1,196.8	1,161.9	34.92	34.270		
6,800.0	6,606.0	6,678.4	6,604.4	28.8	17.4	-149.81	737.9	58.3	1,199.2	1,164.2	34.99	34.274		
6,904.0	6,710.0	6,777.5	6,701.9	28.9	17.3	-91.56	720.9	58.3	1,200.4	1,165.7	34.69	34.605		
6,918.8	6,724.8	6,791.2	6,715.2	28.9	17.2	-91.72	717.5	58.3	1,200.5	1,165.9	34.62	34.672		
6,950.0	6,756.0	6,819.7	6,742.6	28.9	17.1	87.90	709.6	58.3	1,200.8	1,166.3	34.45	34.856		
7,000.0	6,805.8	6,864.8	6,785.3	28.9	17.0	87.32	694.9	58.4	1,201.3	1,167.2	34.11	35.215		
7,050.0	6,855.2	6,909.4	6,826.4	28.8	16.8	86.75	677.8	58.4	1,202.0	1,168.2	33.72	35.641		
7,100.0	6,904.0	6,953.3	6,865.8	28.8	16.6	86.20	658.5	58.4	1,202.7	1,169.4	33.29	36.127		
7,150.0	6,952.0	6,996.7	6,903.5	28.7	16.4	85.67	637.1	58.4	1,203.5	1,170.7	32.82	36.670		
7,200.0	6,998.8	7,039.6	6,939.4	28.6	16.2	85.15	613.6	58.4	1,204.4	1,172.1	32.32	37.262		
7,250.0	7,044.3	7,082.0	6,973.6	28.5	16.0	84.66	588.4	58.4	1,205.4	1,173.5	31.81	37.894		
7,300.0	7,088.2	7,124.0	7,005.8	28.3	15.7	84.19	561.5	58.4	1,206.3	1,175.0	31.29	38.558		
7,350.0	7,130.4	7,165.6	7,036.1	28.2	15.5	83.74	533.0	58.4	1,207.3	1,176.6	30.76	39.244		
7,400.0	7,170.6	7,206.9	7,064.5	28.0	15.2	83.33	503.0	58.4	1,208.3	1,178.1	30.25	39.943		
7,450.0	7,208.6	7,250.0	7,092.3	27.8	15.0	82.92	470.1	58.4	1,209.3	1,179.5	29.74	40.666		
7,500.0	7,244.3	7,288.6	7,115.4	27.7	14.7	82.58	439.2	58.4	1,210.2	1,181.0	29.28	41.334		
7,550.0	7,277.4	7,329.0	7,137.8	27.5	14.5	82.25	405.6	58.4	1,211.1	1,182.3	28.84	41.998		
7,600.0	7,307.8	7,369.2	7,158.2	27.3	14.3	81.95	370.9	58.4	1,212.0	1,183.5	28.43	42.625		
7,650.0	7,335.4	7,409.2	7,176.5	27.2	14.1	81.68	335.4	58.4	1,212.8	1,184.7	28.07	43.202		
7,700.0	7,360.0	7,450.0	7,193.1	27.0	13.9	81.44	298.1	58.4	1,213.5	1,185.7	27.75	43.722		
7,750.0	7,381.6	7,488.7	7,206.8	26.9	13.8	81.25	261.9	58.4	1,214.1	1,186.6	27.50	44.141		
7,800.0	7,399.9	7,528.3	7,218.9	26.8	13.7	81.09	224.2	58.4	1,214.6	1,187.3	27.31	44.477		
7,850.0	7,414.9	7,567.8	7,228.8	26.7	13.6	80.96	186.0	58.4	1,215.0	1,187.8	27.17	44.716		
7,900.0	7,426.6	7,607.2	7,236.5	26.6	13.5	80.87	147.4	58.4	1,215.2	1,188.2	27.10	44.851		
7,950.0	7,434.9	7,650.0	7,242.6	26.5	13.5	80.81	105.0	58.4	1,215.4	1,188.3	27.08	44.875		
7,951.0	7,435.0	7,650.0	7,242.6	26.5	13.5	80.81	105.0	58.4	1,215.4	1,188.3	27.09	44.872		
8,000.0	7,439.7	7,685.9	7,245.7	26.5	13.5	80.80	69.3	58.4	1,215.5	1,188.3	27.15	44.767		
8,043.8	7,441.0	7,720.3	7,246.9	26.5	13.5	80.81	34.8	58.4	1,215.4	1,188.2	27.25	44.595		
8,070.4	7,441.0	7,744.4	7,247.0	26.5	13.6	80.82	10.8	58.4	1,215.4	1,188.0	27.36	44.423		
8,100.0	7,441.0	7,774.0	7,247.0	26.6	13.6	80.82	-18.8	58.4	1,215.4	1,187.9	27.49	44.205		
8,200.0	7,441.0	7,874.0	7,247.0	26.7	14.0	80.82	-118.8	58.4	1,215.4	1,187.1	28.25	43.028		
8,300.0	7,441.0	7,974.0	7,247.0	27.0	14.6	80.82	-218.8	58.4	1,215.4	1,186.0	29.38	41.365		
8,400.0	7,441.0	8,074.0	7,247.0	27.4	15.4	80.81	-318.8	58.4	1,215.4	1,184.5	30.87	39.376		
8,500.0	7,441.0	8,174.0	7,247.0	27.8	16.3	80.81	-418.8	58.4	1,215.3	1,182.7	32.65	37.223		
8,600.0	7,441.0	8,274.0	7,247.0	28.4	17.3	80.81	-518.8	58.4	1,215.3	1,180.6	34.69	35.033		
8,700.0	7,441.0	8,374.0	7,247.0	29.1	18.5	80.81	-618.8	58.4	1,215.3	1,178.4	36.94	32.897		
8,800.0	7,441.0	8,474.0	7,247.0	29.9	19.7	80.81	-718.8	58.5	1,215.3	1,175.9	39.37	30.867		

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 1G-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 1G-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 1D-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	7,441.0	8,574.0	7,247.0	30.8	21.0	80.81	-818.8	58.5	1,215.3	1,173.3	41.95	28.972		
9,000.0	7,441.0	8,674.0	7,247.0	31.7	22.4	80.81	-918.8	58.5	1,215.3	1,170.6	44.64	27.222		
9,100.0	7,441.0	8,774.0	7,247.0	32.7	23.8	80.81	-1,018.8	58.5	1,215.3	1,167.8	47.44	25.618		
9,200.0	7,441.0	8,874.0	7,247.0	33.8	25.3	80.81	-1,118.8	58.5	1,215.3	1,164.9	50.32	24.152		
9,300.0	7,441.0	8,974.0	7,247.0	34.9	26.8	80.81	-1,218.8	58.5	1,215.2	1,162.0	53.26	22.815		
9,400.0	7,441.0	9,074.0	7,247.0	36.1	28.3	80.81	-1,318.8	58.5	1,215.2	1,159.0	56.27	21.596		
9,500.0	7,441.0	9,174.0	7,247.0	37.3	29.9	80.81	-1,418.8	58.5	1,215.2	1,155.9	59.33	20.483		
9,600.0	7,441.0	9,274.0	7,247.0	38.6	31.5	80.81	-1,518.8	58.5	1,215.2	1,152.8	62.43	19.466		
9,700.0	7,441.0	9,374.0	7,247.0	39.9	33.0	80.81	-1,618.8	58.5	1,215.2	1,149.6	65.56	18.534		
9,800.0	7,441.0	9,474.0	7,247.0	41.2	34.7	80.81	-1,718.8	58.5	1,215.2	1,146.4	68.73	17.680		
9,900.0	7,441.0	9,574.0	7,247.0	42.6	36.3	80.81	-1,818.8	58.5	1,215.2	1,143.2	71.93	16.895		
10,000.0	7,441.0	9,674.0	7,247.0	44.0	37.9	80.81	-1,918.8	58.5	1,215.1	1,140.0	75.14	16.171		
10,100.0	7,441.0	9,774.0	7,247.0	45.4	39.6	80.81	-2,018.8	58.6	1,215.1	1,136.8	78.38	15.502		
10,200.0	7,441.0	9,874.0	7,247.0	46.9	41.2	80.81	-2,118.8	58.6	1,215.1	1,133.5	81.64	14.884		
10,300.0	7,441.0	9,974.0	7,247.0	48.4	42.9	80.81	-2,218.8	58.6	1,215.1	1,130.2	84.92	14.310		
10,400.0	7,441.0	10,074.0	7,247.0	49.8	44.5	80.81	-2,318.8	58.6	1,215.1	1,126.9	88.20	13.776		
10,500.0	7,441.0	10,174.0	7,247.0	51.3	46.2	80.81	-2,418.8	58.6	1,215.1	1,123.6	91.51	13.279		
10,600.0	7,441.0	10,274.0	7,247.0	52.9	47.9	80.81	-2,518.8	58.6	1,215.1	1,120.2	94.82	12.815		
10,700.0	7,441.0	10,374.0	7,247.0	54.4	49.6	80.81	-2,618.8	58.6	1,215.1	1,116.9	98.14	12.380		
10,800.0	7,441.0	10,474.0	7,247.0	55.9	51.3	80.81	-2,718.8	58.6	1,215.0	1,113.6	101.48	11.974		
10,900.0	7,441.0	10,574.0	7,247.0	57.5	53.0	80.81	-2,818.8	58.6	1,215.0	1,110.2	104.82	11.592		
11,000.0	7,441.0	10,674.0	7,247.0	59.1	54.7	80.81	-2,918.8	58.6	1,215.0	1,106.9	108.17	11.233		
11,100.0	7,441.0	10,774.0	7,247.0	60.7	56.4	80.81	-3,018.8	58.6	1,215.0	1,103.5	111.52	10.895		
11,200.0	7,441.0	10,874.0	7,247.0	62.2	58.1	80.81	-3,118.8	58.6	1,215.0	1,100.1	114.88	10.576		
11,300.0	7,441.0	10,974.0	7,247.0	63.8	59.8	80.81	-3,218.8	58.6	1,215.0	1,096.7	118.25	10.274		
11,400.0	7,441.0	11,074.0	7,247.0	65.4	61.5	80.81	-3,318.8	58.7	1,215.0	1,093.3	121.63	9.989		
11,500.0	7,441.0	11,174.0	7,247.0	67.1	63.2	80.81	-3,418.8	58.7	1,215.0	1,089.9	125.00	9.719		
11,600.0	7,441.0	11,274.0	7,247.0	68.7	64.9	80.81	-3,518.8	58.7	1,214.9	1,086.5	128.39	9.463		
11,700.0	7,441.0	11,374.0	7,247.0	70.3	66.6	80.81	-3,618.8	58.7	1,214.9	1,083.1	131.78	9.220		
11,800.0	7,441.0	11,474.0	7,247.0	71.9	68.3	80.81	-3,718.8	58.7	1,214.9	1,079.7	135.17	8.988		
11,900.0	7,441.0	11,574.0	7,247.0	73.6	70.1	80.81	-3,818.8	58.7	1,214.9	1,076.3	138.56	8.768		
12,000.0	7,441.0	11,674.0	7,247.0	75.2	71.8	80.81	-3,918.8	58.7	1,214.9	1,072.9	141.96	8.558		
12,100.0	7,441.0	11,774.0	7,247.0	76.9	73.5	80.81	-4,018.8	58.7	1,214.9	1,069.5	145.36	8.358		
12,135.7	7,441.0	11,809.6	7,247.0	77.5	74.1	80.81	-4,054.4	58.7	1,214.9	1,068.3	146.57	8.288 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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				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	-89.95	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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-150.29	0.0	-19.6	20.3	19.3	1.00	20.279		
400.0	400.0	400.0	400.0	0.7	0.7	-153.57	0.0	-19.6	22.6	21.3	1.35	16.742		
500.0	499.9	500.2	500.2	0.9	0.9	-156.30	0.8	-19.1	26.0	24.3	1.70	15.292		
600.0	599.7	600.4	600.4	1.1	1.0	-157.14	3.0	-17.7	30.0	27.9	2.06	14.560		
700.0	699.4	700.7	700.5	1.3	1.2	-156.69	6.7	-15.3	34.3	31.9	2.42	14.199		
800.0	798.9	801.0	800.6	1.5	1.4	-155.39	11.8	-12.0	39.2	36.4	2.79	14.047		
900.0	898.3	901.3	900.6	1.8	1.6	-153.57	18.5	-7.7	44.6	41.4	3.18	14.013		
1,000.0	997.4	1,001.6	1,000.5	2.0	1.8	-151.45	26.6	-2.5	50.5	46.9	3.60	14.043		
1,100.0	1,096.3	1,101.9	1,100.1	2.3	2.1	-149.18	36.1	3.6	57.0	53.0	4.04	14.099		
1,200.0	1,194.9	1,202.1	1,199.5	2.7	2.3	-146.87	47.2	10.7	64.2	59.6	4.53	14.157		
1,300.0	1,293.3	1,302.4	1,298.6	3.0	2.6	-144.59	59.7	18.7	72.0	66.9	5.07	14.201		
1,400.0	1,391.2	1,402.6	1,397.5	3.4	3.0	-142.38	73.6	27.7	80.5	74.8	5.66	14.225		
1,500.0	1,488.9	1,502.7	1,496.0	3.8	3.3	-140.27	89.0	37.6	89.7	83.4	6.30	14.229		
1,600.0	1,586.1	1,602.9	1,594.0	4.2	3.7	-138.28	105.9	48.4	99.6	92.6	7.01	14.212		
1,700.0	1,682.9	1,702.9	1,691.7	4.7	4.1	-136.41	124.1	60.1	110.3	102.5	7.78	14.180		
1,800.0	1,779.3	1,802.9	1,788.9	5.2	4.5	-134.66	143.8	72.8	121.7	113.1	8.61	14.137		
1,900.0	1,875.2	1,902.1	1,885.1	5.7	4.9	-133.40	164.0	85.7	134.2	124.7	9.46	14.182		
2,000.0	1,970.8	2,001.2	1,981.3	6.3	5.3	-132.69	184.2	98.7	147.3	136.9	10.31	14.278		
2,100.0	2,066.4	2,100.3	2,077.5	6.8	5.8	-132.09	204.4	111.6	160.4	149.2	11.18	14.349		
2,200.0	2,162.1	2,199.4	2,173.7	7.3	6.2	-131.59	224.6	124.6	173.5	161.4	12.04	14.403		
2,300.0	2,257.7	2,298.6	2,269.9	7.9	6.6	-131.15	244.7	137.5	186.6	173.7	12.92	14.444		
2,400.0	2,353.3	2,397.7	2,366.0	8.4	7.1	-130.77	264.9	150.5	199.7	185.9	13.80	14.476		
2,500.0	2,448.9	2,496.8	2,462.2	9.0	7.5	-130.44	285.1	163.5	212.8	198.2	14.68	14.500		
2,600.0	2,544.6	2,595.9	2,558.4	9.5	8.0	-130.15	305.3	176.4	226.0	210.4	15.56	14.520		
2,700.0	2,640.2	2,695.1	2,654.6	10.1	8.4	-129.89	325.5	189.4	239.1	222.7	16.45	14.535		
2,800.0	2,735.8	2,794.2	2,750.8	10.6	8.9	-129.65	345.6	202.3	252.3	234.9	17.34	14.547		
2,900.0	2,831.5	2,893.3	2,846.9	11.2	9.3	-129.44	365.8	215.3	265.4	247.2	18.24	14.556		
3,000.0	2,927.1	2,992.4	2,943.1	11.7	9.8	-129.25	386.0	228.2	278.6	259.5	19.13	14.564		
3,100.0	3,022.7	3,091.6	3,039.3	12.2	10.2	-129.08	406.2	241.2	291.8	271.7	20.03	14.570		
3,200.0	3,118.4	3,190.7	3,135.5	12.8	10.7	-128.92	426.4	254.1	304.9	284.0	20.92	14.575		
3,300.0	3,214.0	3,289.8	3,231.7	13.3	11.1	-128.77	446.5	267.1	318.1	296.3	21.82	14.578		
3,400.0	3,309.6	3,388.9	3,327.9	13.9	11.6	-128.64	466.7	280.0	331.3	308.5	22.72	14.581		
3,500.0	3,405.3	3,488.1	3,424.0	14.4	12.0	-128.52	486.9	293.0	344.4	320.8	23.62	14.583		
3,600.0	3,500.9	3,587.2	3,520.2	15.0	12.5	-128.40	507.1	306.0	357.6	333.1	24.52	14.585		
3,700.0	3,596.5	3,686.3	3,616.4	15.5	12.9	-128.30	527.3	318.9	370.8	345.4	25.42	14.586		
3,800.0	3,692.1	3,785.5	3,712.6	16.1	13.4	-128.20	547.4	331.9	383.9	357.6	26.32	14.587		
3,900.0	3,787.8	3,884.6	3,808.8	16.7	13.8	-128.11	567.6	344.8	397.1	369.9	27.22	14.588		
4,000.0	3,883.4	3,983.7	3,905.0	17.2	14.3	-128.02	587.8	357.8	410.3	382.2	28.13	14.588		
4,100.0	3,979.0	4,082.3	4,000.7	17.8	14.7	-127.95	607.8	370.6	423.5	394.5	29.02	14.593		
4,200.0	4,074.7	4,179.8	4,095.6	18.3	15.1	-128.05	626.5	382.6	437.0	407.1	29.85	14.640		
4,300.0	4,170.3	4,277.2	4,190.7	18.9	15.5	-128.36	643.8	393.8	450.8	420.2	30.61	14.730		
4,400.0	4,265.9	4,374.3	4,286.0	19.4	15.9	-128.84	659.8	404.0	465.1	433.8	31.30	14.861		
4,500.0	4,361.6	4,471.2	4,381.3	20.0	16.2	-129.49	674.3	413.3	479.8	447.8	31.92	15.032		
4,600.0	4,457.2	4,567.7	4,476.6	20.5	16.5	-130.28	687.5	421.8	494.9	462.5	32.46	15.245		
4,700.0	4,552.8	4,663.9	4,571.8	21.1	16.8	-131.20	699.2	429.3	510.6	477.7	32.94	15.501		
4,800.0	4,648.5	4,759.7	4,666.8	21.6	17.1	-132.24	709.6	436.0	526.9	493.6	33.35	15.801		
4,900.0	4,744.1	4,855.0	4,761.5	22.2	17.3	-133.36	718.5	441.7	543.9	510.2	33.68	16.148		
5,000.0	4,839.7	4,949.8	4,855.8	22.7	17.5	-134.57	726.1	446.6	561.6	527.7	33.95	16.543		
5,100.0	4,935.3	5,044.0	4,949.7	23.3	17.7	-135.85	732.4	450.6	580.2	546.0	34.15	16.990		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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				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		
5,204.0	5,034.8	5,141.3	5,046.9	23.9	17.9	-137.24	737.5	453.9	600.3	566.1	34.28	17.512		
5,300.0	5,126.8	5,230.7	5,136.2	24.4	18.0	-138.64	741.0	456.1	619.3	585.0	34.33	18.039		
5,400.0	5,223.2	5,323.6	5,229.0	24.9	18.1	-140.04	743.3	457.6	638.7	604.4	34.34	18.601		
5,500.0	5,320.0	5,416.3	5,321.7	25.3	18.2	-141.38	744.4	458.3	657.8	623.5	34.31	19.176		
5,600.0	5,417.2	5,511.8	5,417.2	25.8	18.3	-142.70	744.5	458.4	676.4	642.2	34.24	19.754		
5,700.0	5,514.8	5,609.4	5,514.8	26.2	18.4	-143.88	744.5	458.4	694.0	659.8	34.19	20.295		
5,800.0	5,612.8	5,707.4	5,612.8	26.5	18.5	-144.92	744.5	458.4	710.4	676.2	34.17	20.787		
5,900.0	5,711.1	5,805.7	5,711.1	26.9	18.5	-145.83	744.5	458.4	725.5	691.3	34.18	21.227		
6,000.0	5,809.7	5,904.3	5,809.7	27.2	18.6	-146.63	744.5	458.4	739.3	705.1	34.21	21.614		
6,100.0	5,908.6	6,003.2	5,908.6	27.5	18.7	-147.31	744.5	458.4	751.8	717.6	34.26	21.946		
6,200.0	6,007.7	6,102.3	6,007.7	27.8	18.8	-147.90	744.5	458.4	762.9	728.6	34.33	22.223		
6,300.0	6,107.1	6,201.7	6,107.1	28.0	18.9	-148.40	744.5	458.4	772.6	738.2	34.43	22.443		
6,400.0	6,206.6	6,301.2	6,206.6	28.2	19.0	-148.82	744.5	458.4	780.9	746.3	34.54	22.608		
6,500.0	6,306.3	6,400.9	6,306.3	28.4	19.1	-149.15	744.5	458.4	787.7	753.0	34.67	22.717		
6,600.0	6,406.1	6,500.7	6,406.1	28.6	19.2	-149.41	744.5	458.4	793.0	758.2	34.82	22.771		
6,700.0	6,506.0	6,600.6	6,506.0	28.7	19.3	-149.59	744.5	458.4	796.8	761.8	34.99	22.771		
6,800.0	6,606.0	6,700.6	6,606.0	28.8	19.4	-149.70	744.5	458.4	799.1	763.9	35.18	22.717		
6,904.0	6,710.0	6,804.6	6,710.0	28.9	19.6	-90.65	744.5	458.4	799.9	764.5	35.38	22.607		
6,918.8	6,724.8	6,819.4	6,724.8	28.9	19.6	-90.65	744.5	458.4	799.9	764.5	35.42	22.585		
6,950.0	6,756.0	6,850.6	6,755.9	28.9	19.6	89.39	744.5	458.4	799.9	764.4	35.49	22.536		
7,000.0	6,805.8	6,900.0	6,805.3	28.9	19.6	89.54	742.7	458.4	799.9	764.3	35.56	22.495		
7,050.0	6,855.2	6,949.6	6,854.6	28.8	19.6	89.70	737.5	458.4	799.9	764.3	35.54	22.508		
7,100.0	6,904.0	6,999.3	6,903.6	28.8	19.5	89.85	728.9	458.4	799.9	764.4	35.43	22.573		
7,150.0	6,952.0	7,049.2	6,952.0	28.7	19.4	90.01	716.8	458.4	799.9	764.6	35.25	22.691		
7,156.3	6,957.9	7,055.5	6,958.0	28.7	19.4	90.03	715.1	458.4	799.9	764.7	35.22	22.711		
7,200.0	6,998.8	7,099.3	6,999.6	28.6	19.3	90.16	701.4	458.4	799.9	764.9	34.99	22.860		
7,250.0	7,044.3	7,149.4	7,046.1	28.5	19.1	90.32	682.6	458.4	799.9	765.2	34.66	23.080		
7,300.0	7,088.2	7,199.8	7,091.4	28.3	18.9	90.48	660.5	458.4	799.9	765.6	34.26	23.349		
7,350.0	7,130.4	7,250.3	7,135.1	28.2	18.7	90.63	635.2	458.4	799.9	766.1	33.80	23.666		
7,400.0	7,170.6	7,301.0	7,177.0	28.0	18.5	90.78	606.8	458.4	799.9	766.6	33.29	24.028		
7,450.0	7,208.6	7,351.8	7,217.0	27.8	18.2	90.92	575.4	458.4	800.0	767.2	32.74	24.431		
7,500.0	7,244.3	7,402.7	7,254.7	27.7	18.0	91.07	541.2	458.4	800.0	767.8	32.17	24.869		
7,550.0	7,277.4	7,453.8	7,290.0	27.5	17.7	91.20	504.3	458.4	800.0	768.5	31.58	25.336		
7,600.0	7,307.8	7,505.0	7,322.6	27.3	17.4	91.33	464.8	458.4	800.1	769.1	30.99	25.821		
7,650.0	7,335.4	7,556.4	7,352.4	27.2	17.2	91.46	423.0	458.4	800.1	769.7	30.41	26.311		
7,700.0	7,360.0	7,607.9	7,379.3	27.0	16.9	91.58	379.0	458.4	800.2	770.3	29.87	26.792		
7,750.0	7,381.6	7,659.5	7,402.9	26.9	16.7	91.69	333.1	458.4	800.2	770.8	29.37	27.244		
7,800.0	7,399.9	7,711.3	7,423.2	26.8	16.5	91.79	285.6	458.4	800.2	771.3	28.94	27.648		
7,850.0	7,414.9	7,763.1	7,440.1	26.7	16.4	91.88	236.6	458.4	800.3	771.7	28.60	27.984		
7,900.0	7,426.6	7,815.0	7,453.3	26.6	16.3	91.96	186.4	458.4	800.3	772.0	28.35	28.231		
7,950.0	7,434.9	7,867.1	7,463.0	26.5	16.2	92.03	135.3	458.4	800.3	772.1	28.21	28.373		
8,000.0	7,439.7	7,919.2	7,468.9	26.5	16.2	92.10	83.5	458.4	800.4	772.2	28.18	28.398		
8,043.8	7,441.0	7,964.9	7,470.9	26.5	16.2	92.14	37.8	458.4	800.4	772.1	28.26	28.324		
8,100.0	7,441.0	8,021.4	7,471.0	26.6	16.3	92.15	-18.7	458.4	800.4	771.9	28.50	28.079		
8,200.0	7,441.0	8,121.4	7,471.0	26.7	16.6	92.15	-118.7	458.4	800.4	771.1	29.24	27.374		
8,300.0	7,441.0	8,221.4	7,471.0	27.0	17.1	92.15	-218.7	458.4	800.4	770.0	30.36	26.362		
8,400.0	7,441.0	8,321.4	7,471.0	27.4	17.8	92.15	-318.7	458.4	800.4	768.5	31.83	25.144		
8,500.0	7,441.0	8,421.4	7,471.0	27.8	18.6	92.15	-418.7	458.4	800.4	766.7	33.60	23.817		
8,600.0	7,441.0	8,521.4	7,471.0	28.4	19.5	92.15	-518.7	458.4	800.3	764.7	35.64	22.459		
8,700.0	7,441.0	8,621.4	7,471.0	29.1	20.5	92.15	-618.7	458.4	800.3	762.5	37.88	21.127		
8,800.0	7,441.0	8,721.4	7,471.0	29.9	21.7	92.15	-718.7	458.4	800.3	760.0	40.31	19.854		
8,900.0	7,441.0	8,821.4	7,471.0	30.8	22.9	92.15	-818.7	458.4	800.3	757.4	42.89	18.661		

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 1G-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 1G-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	7,441.0	8,921.4	7,471.0	31.7	24.2	92.15	-918.7	458.4	800.3	754.7	45.59	17.555		
9,100.0	7,441.0	9,021.4	7,471.0	32.7	25.5	92.15	-1,018.7	458.4	800.3	751.9	48.39	16.538		
9,200.0	7,441.0	9,121.4	7,471.0	33.8	26.9	92.15	-1,118.7	458.4	800.3	749.0	51.28	15.605		
9,300.0	7,441.0	9,221.4	7,471.0	34.9	28.3	92.15	-1,218.7	458.4	800.3	746.0	54.25	14.753		
9,400.0	7,441.0	9,321.4	7,471.0	36.1	29.7	92.15	-1,318.7	458.4	800.3	743.0	57.27	13.974		
9,500.0	7,441.0	9,421.4	7,471.0	37.3	31.2	92.15	-1,418.7	458.4	800.3	739.9	60.35	13.261		
9,600.0	7,441.0	9,521.4	7,471.0	38.6	32.7	92.15	-1,518.7	458.4	800.3	736.8	63.47	12.609		
9,700.0	7,441.0	9,621.4	7,471.0	39.9	34.3	92.15	-1,618.7	458.4	800.3	733.6	66.63	12.011		
9,800.0	7,441.0	9,721.4	7,471.0	41.2	35.8	92.15	-1,718.7	458.4	800.3	730.4	69.82	11.461		
9,900.0	7,441.0	9,821.4	7,471.0	42.6	37.4	92.15	-1,818.7	458.4	800.2	727.2	73.04	10.956		
10,000.0	7,441.0	9,921.4	7,471.0	44.0	39.0	92.15	-1,918.7	458.4	800.2	723.9	76.29	10.490		
10,100.0	7,441.0	10,021.4	7,471.0	45.4	40.6	92.15	-2,018.7	458.4	800.2	720.7	79.56	10.058		
10,200.0	7,441.0	10,121.4	7,471.0	46.9	42.2	92.15	-2,118.7	458.4	800.2	717.4	82.85	9.659		
10,300.0	7,441.0	10,221.4	7,471.0	48.4	43.8	92.15	-2,218.7	458.4	800.2	714.1	86.15	9.289		
10,400.0	7,441.0	10,321.4	7,471.0	49.8	45.5	92.15	-2,318.7	458.4	800.2	710.7	89.47	8.944		
10,500.0	7,441.0	10,421.4	7,471.0	51.3	47.1	92.15	-2,418.7	458.4	800.2	707.4	92.80	8.622		
10,600.0	7,441.0	10,521.4	7,471.0	52.9	48.8	92.15	-2,518.7	458.4	800.2	704.0	96.15	8.322		
10,700.0	7,441.0	10,621.4	7,471.0	54.4	50.4	92.15	-2,618.7	458.4	800.2	700.7	99.51	8.041		
10,800.0	7,441.0	10,721.4	7,471.0	55.9	52.1	92.15	-2,718.7	458.4	800.2	697.3	102.88	7.778		
10,900.0	7,441.0	10,821.4	7,471.0	57.5	53.8	92.15	-2,818.7	458.4	800.2	693.9	106.25	7.531		
11,000.0	7,441.0	10,921.4	7,471.0	59.1	55.4	92.15	-2,918.7	458.4	800.2	690.5	109.64	7.298		
11,100.0	7,441.0	11,021.4	7,471.0	60.7	57.1	92.15	-3,018.7	458.4	800.2	687.1	113.03	7.079		
11,200.0	7,441.0	11,121.4	7,471.0	62.2	58.8	92.15	-3,118.7	458.5	800.1	683.7	116.43	6.873		
11,300.0	7,441.0	11,221.4	7,471.0	63.8	60.5	92.15	-3,218.7	458.5	800.1	680.3	119.83	6.677		
11,400.0	7,441.0	11,321.4	7,471.0	65.4	62.2	92.15	-3,318.7	458.5	800.1	676.9	123.24	6.492		
11,500.0	7,441.0	11,421.4	7,471.0	67.1	63.9	92.15	-3,418.7	458.5	800.1	673.5	126.66	6.317		
11,600.0	7,441.0	11,521.4	7,471.0	68.7	65.6	92.15	-3,518.7	458.5	800.1	670.0	130.08	6.151		
11,700.0	7,441.0	11,621.4	7,471.0	70.3	67.3	92.15	-3,618.7	458.5	800.1	666.6	133.50	5.993		
11,800.0	7,441.0	11,721.4	7,471.0	71.9	69.0	92.15	-3,718.7	458.5	800.1	663.2	136.93	5.843		
11,900.0	7,441.0	11,821.4	7,471.0	73.6	70.7	92.15	-3,818.7	458.5	800.1	659.7	140.36	5.700		
12,000.0	7,441.0	11,921.4	7,471.0	75.2	72.4	92.15	-3,918.7	458.5	800.1	656.3	143.80	5.564		
12,100.0	7,441.0	12,021.4	7,471.0	76.9	74.1	92.15	-4,018.7	458.5	800.1	652.8	147.24	5.434		
12,135.7	7,441.0	12,057.1	7,471.0	77.5	74.7	92.15	-4,054.4	458.5	800.1	651.6	148.46	5.389 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	36.815		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.5	0.65	17.128 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-151.19	0.0	-11.2	11.9	10.9	1.00	11.914		
400.0	400.0	400.2	400.2	0.7	0.7	-154.21	0.6	-10.5	13.6	12.2	1.35	10.033		
500.0	499.9	500.3	500.3	0.9	0.9	-155.60	2.3	-8.5	15.4	13.7	1.70	9.015		
600.0	599.7	600.6	600.4	1.1	1.0	-155.82	5.1	-5.2	17.3	15.3	2.06	8.400		
700.0	699.4	700.8	700.5	1.3	1.2	-155.21	9.1	-0.6	19.4	17.0	2.42	8.002		
800.0	798.9	801.1	800.4	1.5	1.5	-154.04	14.3	5.4	21.6	18.8	2.80	7.730		
900.0	898.3	901.4	900.3	1.8	1.7	-152.47	20.6	12.7	24.0	20.8	3.19	7.533		
1,000.0	997.4	1,001.7	999.9	2.0	1.9	-150.64	28.0	21.4	26.6	23.0	3.61	7.379		
1,100.0	1,096.3	1,102.0	1,099.4	2.3	2.2	-148.66	36.6	31.3	29.4	25.3	4.05	7.248		
1,200.0	1,194.9	1,202.4	1,198.6	2.7	2.5	-146.60	46.2	42.6	32.3	27.8	4.54	7.128		
1,300.0	1,293.3	1,302.7	1,297.6	3.0	2.8	-144.51	57.1	55.2	35.5	30.5	5.07	7.009		
1,400.0	1,391.2	1,403.1	1,396.3	3.4	3.2	-142.43	69.0	69.1	39.0	33.3	5.65	6.889		
1,500.0	1,488.9	1,503.5	1,494.7	3.8	3.5	-140.40	82.1	84.3	42.6	36.3	6.30	6.766		
1,600.0	1,586.1	1,603.9	1,592.7	4.2	3.9	-138.42	96.3	100.8	46.5	39.5	7.01	6.641		
1,700.0	1,682.9	1,704.4	1,690.3	4.7	4.4	-136.53	111.7	118.6	50.7	42.9	7.78	6.516		
1,800.0	1,779.3	1,804.8	1,787.5	5.2	4.8	-134.71	128.1	137.8	55.1	46.5	8.62	6.392		
1,900.0	1,875.2	1,905.2	1,884.3	5.7	5.3	-132.98	145.7	158.2	59.8	50.3	9.53	6.272		
2,000.0	1,970.8	2,005.7	1,980.6	6.3	5.9	-130.79	164.3	179.9	64.2	53.6	10.55	6.085		
2,100.0	2,066.4	2,105.5	2,076.1	6.8	6.4	-128.33	183.4	202.0	68.3	56.7	11.63	5.872		
2,200.0	2,162.1	2,205.4	2,171.6	7.3	6.9	-126.15	202.4	224.2	72.5	59.8	12.73	5.696		
2,300.0	2,257.7	2,305.3	2,267.1	7.9	7.4	-124.21	221.5	246.3	76.8	62.9	13.83	5.551		
2,400.0	2,353.3	2,405.2	2,362.6	8.4	8.0	-122.47	240.5	268.4	81.2	66.2	14.95	5.429		
2,500.0	2,448.9	2,505.0	2,458.1	9.0	8.5	-120.92	259.6	290.6	85.6	69.5	16.07	5.327		
2,600.0	2,544.6	2,604.9	2,553.6	9.5	9.0	-119.52	278.6	312.7	90.1	72.9	17.19	5.241		
2,700.0	2,640.2	2,704.8	2,649.2	10.1	9.6	-118.25	297.6	334.8	94.6	76.3	18.32	5.167		
2,800.0	2,735.8	2,804.7	2,744.7	10.6	10.1	-117.10	316.7	357.0	99.2	79.8	19.44	5.104		
2,900.0	2,831.5	2,904.5	2,840.2	11.2	10.7	-116.05	335.7	379.1	103.9	83.3	20.57	5.049		
3,000.0	2,927.1	3,004.4	2,935.7	11.7	11.2	-115.09	354.8	401.3	108.5	86.8	21.69	5.002		
3,100.0	3,022.7	3,104.3	3,031.2	12.2	11.8	-114.21	373.8	423.4	113.2	90.4	22.82	4.961		
3,200.0	3,118.4	3,204.2	3,126.7	12.8	12.3	-113.40	392.8	445.5	117.9	94.0	23.94	4.924		
3,300.0	3,214.0	3,304.0	3,222.2	13.3	12.8	-112.66	411.9	467.7	122.6	97.6	25.07	4.892		
3,400.0	3,309.6	3,403.9	3,317.7	13.9	13.4	-111.96	430.9	489.8	127.4	101.2	26.19	4.864		
3,500.0	3,405.3	3,503.8	3,413.3	14.4	13.9	-111.32	450.0	511.9	132.1	104.8	27.31	4.838		
3,600.0	3,500.9	3,603.7	3,508.8	15.0	14.5	-110.72	469.0	534.1	136.9	108.5	28.43	4.816		
3,700.0	3,596.5	3,703.5	3,604.3	15.5	15.0	-110.17	488.1	556.2	141.7	112.2	29.55	4.795		
3,800.0	3,692.1	3,803.4	3,699.8	16.1	15.6	-109.65	507.1	578.4	146.5	115.9	30.67	4.777		
3,900.0	3,787.8	3,903.3	3,795.3	16.7	16.1	-109.16	526.1	600.5	151.4	119.6	31.79	4.761		
4,000.0	3,883.4	4,003.2	3,890.8	17.2	16.7	-108.70	545.2	622.6	156.2	123.3	32.91	4.746		
4,100.0	3,979.0	4,103.0	3,986.3	17.8	17.2	-108.27	564.2	644.8	161.0	127.0	34.03	4.732		
4,200.0	4,074.7	4,202.9	4,081.8	18.3	17.8	-107.87	583.3	666.9	165.9	130.7	35.14	4.720		
4,300.0	4,170.3	4,302.4	4,177.2	18.9	18.3	-107.74	601.8	688.4	170.8	134.6	36.20	4.719		
4,400.0	4,265.9	4,401.8	4,272.9	19.4	18.8	-108.17	619.2	708.7	176.1	138.9	37.16	4.737		
4,500.0	4,361.6	4,501.1	4,369.0	20.0	19.2	-109.11	635.5	727.6	181.6	143.6	38.02	4.776		
4,600.0	4,457.2	4,600.0	4,465.2	20.5	19.7	-110.51	650.6	745.2	187.5	148.7	38.75	4.837		
4,700.0	4,552.8	4,699.2	4,561.9	21.1	20.1	-112.32	664.7	761.7	193.8	154.5	39.36	4.924		
4,800.0	4,648.5	4,797.8	4,658.6	21.6	20.4	-114.48	677.7	776.7	200.8	161.0	39.82	5.043		
4,900.0	4,744.1	4,896.1	4,755.2	22.2	20.8	-116.92	689.5	790.5	208.6	168.5	40.12	5.200		
5,000.0	4,839.7	4,994.1	4,851.7	22.7	21.1	-119.60	700.2	802.9	217.3	177.1	40.24	5.401		
5,100.0	4,935.3	5,091.5	4,948.1	23.3	21.4	-122.45	709.8	814.0	227.2	187.0	40.19	5.652		

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 1G-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 1G-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		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		
5,204.0	5,034.8	5,192.4	5,048.0	23.9	21.7	-125.52	718.6	824.3	238.7	198.8	39.96	5.974		
5,300.0	5,126.8	5,285.1	5,140.1	24.4	21.9	-128.36	725.7	832.5	250.3	210.7	39.61	6.319		
5,400.0	5,223.2	5,381.4	5,235.9	24.9	22.1	-131.08	732.0	839.8	262.6	223.4	39.19	6.702		
5,500.0	5,320.0	5,477.5	5,331.7	25.3	22.3	-133.57	737.2	845.9	275.2	236.5	38.73	7.106		
5,600.0	5,417.2	5,573.3	5,427.3	25.8	22.5	-135.87	741.4	850.8	288.0	249.8	38.25	7.531		
5,700.0	5,514.8	5,668.9	5,522.7	26.2	22.6	-138.00	744.6	854.4	301.0	263.2	37.75	7.974		
5,800.0	5,612.8	5,764.2	5,618.0	26.5	22.7	-139.97	746.7	856.9	314.1	276.8	37.24	8.433		
5,900.0	5,711.1	5,859.3	5,713.0	26.9	22.8	-141.82	747.7	858.1	327.2	290.5	36.73	8.909		
6,000.0	5,809.7	5,955.9	5,809.7	27.2	22.9	-143.55	747.9	858.3	340.3	304.1	36.23	9.394		
6,100.0	5,908.6	6,054.8	5,908.6	27.5	22.9	-145.05	747.9	858.3	352.4	316.6	35.81	9.842		
6,200.0	6,007.7	6,154.0	6,007.7	27.8	23.0	-146.29	747.9	858.3	363.3	327.8	35.49	10.235		
6,300.0	6,107.1	6,253.3	6,107.1	28.0	23.1	-147.31	747.9	858.3	372.8	337.6	35.27	10.571		
6,400.0	6,206.6	6,352.8	6,206.6	28.2	23.2	-148.14	747.9	858.3	381.0	345.9	35.13	10.846		
6,500.0	6,306.3	6,452.5	6,306.3	28.4	23.3	-148.79	747.9	858.3	387.8	352.7	35.06	11.060		
6,600.0	6,406.1	6,552.3	6,406.1	28.6	23.4	-149.28	747.9	858.3	393.1	358.0	35.06	11.211		
6,700.0	6,506.0	6,652.2	6,506.0	28.7	23.4	-149.63	747.9	858.3	396.9	361.8	35.12	11.299		
6,800.0	6,606.0	6,751.5	6,605.2	28.8	23.5	-150.27	744.9	858.3	399.3	364.3	34.97	11.418		
6,904.0	6,710.0	6,851.8	6,704.1	28.9	23.4	-93.56	728.8	858.3	400.8	367.0	33.77	11.870		
6,918.8	6,724.8	6,865.7	6,717.6	28.9	23.4	-94.03	725.5	858.3	401.0	367.5	33.52	11.963		
6,950.0	6,756.0	6,894.6	6,745.4	28.9	23.3	84.90	717.7	858.3	401.7	368.7	32.96	12.186		
7,000.0	6,805.8	6,940.3	6,788.8	28.9	23.2	83.23	703.2	858.3	403.0	370.9	32.04	12.579		
7,050.0	6,855.2	6,985.5	6,830.6	28.8	23.1	81.60	686.2	858.3	404.6	373.4	31.12	13.000		
7,100.0	6,904.0	7,030.0	6,870.7	28.8	22.9	80.03	666.9	858.3	406.4	376.2	30.24	13.440		
7,150.0	6,952.0	7,074.0	6,909.1	28.7	22.8	78.51	645.3	858.3	408.5	379.1	29.41	13.890		
7,200.0	6,998.8	7,117.5	6,945.6	28.6	22.6	77.07	621.8	858.3	410.8	382.2	28.65	14.340		
7,250.0	7,044.3	7,160.5	6,980.3	28.5	22.4	75.69	596.4	858.3	413.3	385.3	27.96	14.780		
7,300.0	7,088.2	7,200.0	7,010.8	28.3	22.3	74.47	571.2	858.3	415.8	388.5	27.39	15.184		
7,350.0	7,130.4	7,245.2	7,043.9	28.2	22.1	73.17	540.4	858.3	418.4	391.6	26.83	15.598		
7,400.0	7,170.6	7,287.0	7,072.7	28.0	21.9	72.03	510.2	858.3	421.0	394.7	26.38	15.962		
7,450.0	7,208.6	7,328.5	7,099.5	27.8	21.7	70.98	478.5	858.3	423.6	397.6	26.00	16.292		
7,500.0	7,244.3	7,369.7	7,124.3	27.7	21.5	70.01	445.6	858.3	426.1	400.4	25.70	16.584		
7,550.0	7,277.4	7,410.7	7,147.0	27.5	21.4	69.13	411.5	858.3	428.5	403.1	25.45	16.839		
7,600.0	7,307.8	7,450.0	7,166.9	27.3	21.2	68.35	377.6	858.3	430.8	405.5	25.26	17.053		
7,650.0	7,335.4	7,491.9	7,186.0	27.2	21.1	67.62	340.4	858.3	432.9	407.7	25.12	17.230		
7,700.0	7,360.0	7,532.2	7,202.4	27.0	20.9	67.01	303.6	858.3	434.7	409.7	25.04	17.365		
7,750.0	7,381.6	7,572.3	7,216.6	26.9	20.8	66.48	266.0	858.3	436.4	411.4	24.99	17.461		
7,800.0	7,399.9	7,612.3	7,228.6	26.8	20.7	66.04	227.8	858.3	437.8	412.8	24.99	17.519		
7,850.0	7,414.9	7,650.0	7,238.0	26.7	20.7	65.70	191.4	858.3	439.0	413.9	25.03	17.540		
7,900.0	7,426.6	7,692.1	7,246.1	26.6	20.6	65.43	150.1	858.3	439.8	414.7	25.11	17.514		
7,950.0	7,434.9	7,731.9	7,251.6	26.5	20.6	65.26	110.7	858.3	440.4	415.2	25.24	17.450		
8,000.0	7,439.7	7,771.6	7,254.9	26.5	20.6	65.17	71.1	858.3	440.7	415.3	25.40	17.350		
8,043.8	7,441.0	7,806.4	7,256.0	26.5	20.6	65.17	36.3	858.3	440.7	415.1	25.57	17.237		
8,065.2	7,441.0	7,826.6	7,256.0	26.5	20.6	65.18	16.1	858.3	440.7	415.0	25.66	17.173		
8,100.0	7,441.0	7,861.4	7,256.0	26.6	20.6	65.18	-18.7	858.3	440.7	414.8	25.83	17.063		
8,200.0	7,441.0	7,961.4	7,256.0	26.7	20.9	65.18	-118.7	858.3	440.7	414.1	26.56	16.594		
8,300.0	7,441.0	8,061.4	7,256.0	27.0	21.2	65.18	-218.7	858.3	440.6	413.0	27.63	15.947		
8,400.0	7,441.0	8,161.4	7,256.0	27.4	21.7	65.18	-318.7	858.3	440.6	411.6	29.02	15.184		
8,500.0	7,441.0	8,261.4	7,256.0	27.8	22.4	65.18	-418.7	858.3	440.6	410.0	30.68	14.364		
8,600.0	7,441.0	8,361.4	7,256.0	28.4	23.1	65.18	-518.7	858.3	440.6	408.1	32.56	13.532		
8,700.0	7,441.0	8,461.4	7,256.0	29.1	24.0	65.17	-618.7	858.3	440.6	406.0	34.64	12.720		
8,800.0	7,441.0	8,561.4	7,256.0	29.9	24.9	65.17	-718.7	858.3	440.6	403.8	36.88	11.948		
8,900.0	7,441.0	8,661.4	7,256.0	30.8	26.0	65.17	-818.7	858.3	440.6	401.4	39.25	11.227		

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 1G-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 1G-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		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)						
9,000.0	7,441.0	8,761.4	7,256.0	31.7	27.1	65.17	-918.7	858.3	440.6	398.9	41.72	10.560		
9,100.0	7,441.0	8,861.4	7,256.0	32.7	28.3	65.17	-1,018.7	858.3	440.6	396.3	44.29	9.948		
9,200.0	7,441.0	8,961.4	7,256.0	33.8	29.5	65.17	-1,118.7	858.3	440.6	393.7	46.94	9.387		
9,300.0	7,441.0	9,061.4	7,256.0	34.9	30.8	65.17	-1,218.7	858.3	440.6	391.0	49.65	8.875		
9,400.0	7,441.0	9,161.4	7,256.0	36.1	32.2	65.17	-1,318.7	858.3	440.6	388.2	52.41	8.407		
9,500.0	7,441.0	9,261.4	7,256.0	37.3	33.6	65.17	-1,418.7	858.3	440.6	385.4	55.22	7.979		
9,600.0	7,441.0	9,361.4	7,256.0	38.6	35.0	65.17	-1,518.7	858.3	440.6	382.5	58.07	7.588		
9,700.0	7,441.0	9,461.4	7,256.0	39.9	36.4	65.17	-1,618.7	858.3	440.6	379.6	60.95	7.229		
9,800.0	7,441.0	9,561.4	7,256.0	41.2	37.9	65.17	-1,718.7	858.3	440.6	376.7	63.86	6.899		
9,900.0	7,441.0	9,661.4	7,256.0	42.6	39.4	65.17	-1,818.7	858.3	440.6	373.8	66.79	6.596		
10,000.0	7,441.0	9,761.4	7,256.0	44.0	40.9	65.17	-1,918.7	858.3	440.6	370.8	69.75	6.316		
10,100.0	7,441.0	9,861.4	7,256.0	45.4	42.4	65.17	-2,018.7	858.3	440.6	367.8	72.73	6.058		
10,200.0	7,441.0	9,961.4	7,256.0	46.9	44.0	65.17	-2,118.7	858.2	440.6	364.8	75.73	5.818		
10,300.0	7,441.0	10,061.4	7,256.0	48.4	45.5	65.17	-2,218.7	858.2	440.6	361.8	78.74	5.596		
10,400.0	7,441.0	10,161.4	7,256.0	49.8	47.1	65.17	-2,318.7	858.2	440.6	358.8	81.76	5.389		
10,500.0	7,441.0	10,261.4	7,256.0	51.3	48.7	65.17	-2,418.7	858.2	440.6	355.8	84.79	5.196		
10,600.0	7,441.0	10,361.4	7,256.0	52.9	50.3	65.17	-2,518.7	858.2	440.6	352.7	87.84	5.015		
10,700.0	7,441.0	10,461.4	7,256.0	54.4	51.9	65.17	-2,618.7	858.2	440.6	349.7	90.90	4.847		
10,800.0	7,441.0	10,561.4	7,256.0	55.9	53.5	65.17	-2,718.7	858.2	440.5	346.6	93.96	4.689		
10,900.0	7,441.0	10,661.4	7,256.0	57.5	55.1	65.17	-2,818.7	858.2	440.5	343.5	97.03	4.540		
11,000.0	7,441.0	10,761.4	7,256.0	59.1	56.8	65.17	-2,918.7	858.2	440.5	340.4	100.11	4.400		
11,100.0	7,441.0	10,861.4	7,256.0	60.7	58.4	65.17	-3,018.7	858.2	440.5	337.3	103.20	4.269		
11,200.0	7,441.0	10,961.4	7,256.0	62.2	60.1	65.17	-3,118.7	858.2	440.5	334.2	106.29	4.145		
11,300.0	7,441.0	11,061.4	7,256.0	63.8	61.7	65.17	-3,218.7	858.2	440.5	331.1	109.39	4.027		
11,400.0	7,441.0	11,161.4	7,256.0	65.4	63.4	65.17	-3,318.7	858.2	440.5	328.0	112.49	3.916		
11,500.0	7,441.0	11,261.4	7,256.0	67.1	65.0	65.17	-3,418.7	858.2	440.5	324.9	115.60	3.811		
11,600.0	7,441.0	11,361.4	7,256.0	68.7	66.7	65.17	-3,518.7	858.2	440.5	321.8	118.71	3.711		
11,700.0	7,441.0	11,461.4	7,256.0	70.3	68.4	65.17	-3,618.7	858.2	440.5	318.7	121.83	3.616		
11,800.0	7,441.0	11,561.4	7,256.0	71.9	70.1	65.17	-3,718.7	858.2	440.5	315.6	124.95	3.526		
11,900.0	7,441.0	11,661.4	7,256.0	73.6	71.7	65.17	-3,818.7	858.2	440.5	312.4	128.07	3.440		
12,000.0	7,441.0	11,761.4	7,256.0	75.2	73.4	65.17	-3,918.7	858.2	440.5	309.3	131.19	3.358		
12,100.0	7,441.0	11,861.4	7,256.0	76.9	75.1	65.17	-4,018.7	858.2	440.5	306.2	134.32	3.279		
12,135.7	7,441.0	11,897.1	7,256.0	77.5	75.7	65.17	-4,054.4	858.2	440.5	305.1	135.44	3.252 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		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			
0.0	0.0	0.0	0.0	0.0	0.0	155.14	-1,324.5	613.5	1,459.8					
100.0	100.0	84.0	84.0	0.2	0.1	155.14	-1,324.5	613.5	1,459.7	1,459.4	0.30	4,890.329		
200.0	200.0	184.0	184.0	0.3	0.3	155.14	-1,324.5	613.5	1,459.7	1,459.0	0.65	2,254.275		
300.0	300.0	284.0	284.0	0.5	0.5	96.10	-1,324.5	613.5	1,459.8	1,458.8	1.00	1,463.450		
400.0	400.0	384.0	384.0	0.7	0.7	96.20	-1,324.5	613.5	1,460.1	1,458.7	1.35	1,080.196		
500.0	499.9	483.9	483.9	0.9	0.8	96.36	-1,324.5	613.5	1,460.5	1,458.8	1.71	852.286		
600.0	599.7	583.7	583.7	1.1	1.0	96.59	-1,324.5	613.5	1,461.2	1,459.1	2.09	700.161		
700.0	699.4	683.4	683.4	1.3	1.2	96.89	-1,324.5	613.5	1,462.1	1,459.7	2.47	590.828		
800.0	798.9	782.9	782.9	1.5	1.4	97.25	-1,324.5	613.5	1,463.3	1,460.5	2.88	508.159		
900.0	898.3	882.3	882.3	1.8	1.5	97.67	-1,324.5	613.5	1,464.8	1,461.5	3.30	443.336		
1,000.0	997.4	981.4	981.4	2.0	1.7	98.15	-1,324.5	613.5	1,466.6	1,462.9	3.75	391.126		
1,100.0	1,096.3	1,080.3	1,080.3	2.3	1.9	98.70	-1,324.5	613.5	1,468.8	1,464.6	4.22	348.213		
1,200.0	1,194.9	1,178.9	1,178.9	2.7	2.1	99.30	-1,324.5	613.5	1,471.4	1,466.7	4.71	312.387		
1,300.0	1,293.3	1,277.3	1,277.3	3.0	2.2	99.95	-1,324.5	613.5	1,474.5	1,469.3	5.23	282.107		
1,400.0	1,391.2	1,375.2	1,375.2	3.4	2.4	100.66	-1,324.5	613.5	1,478.2	1,472.4	5.77	256.261		
1,500.0	1,488.9	1,472.9	1,472.9	3.8	2.6	101.43	-1,324.5	613.5	1,482.4	1,476.1	6.33	234.023		
1,600.0	1,586.1	1,570.1	1,570.1	4.2	2.7	102.24	-1,324.5	613.5	1,487.3	1,480.4	6.93	214.762		
1,700.0	1,682.9	1,666.9	1,666.9	4.7	2.9	103.09	-1,324.5	613.5	1,493.0	1,485.4	7.54	197.986		
1,800.0	1,779.3	1,763.3	1,763.3	5.2	3.1	103.99	-1,324.5	613.5	1,499.5	1,491.3	8.18	183.307		
1,900.0	1,875.2	1,859.2	1,859.2	5.7	3.2	104.92	-1,324.5	613.5	1,506.8	1,498.0	8.84	170.412		
2,000.0	1,970.8	1,954.8	1,954.8	6.3	3.4	105.95	-1,324.5	613.5	1,515.0	1,505.4	9.50	159.427		
2,100.0	2,066.4	2,050.4	2,050.4	6.8	3.6	106.97	-1,324.5	613.5	1,523.6	1,513.4	10.16	149.958		
2,200.0	2,162.1	2,146.1	2,146.1	7.3	3.7	107.97	-1,324.5	613.5	1,532.7	1,521.9	10.81	141.733		
2,300.0	2,257.7	2,241.7	2,241.7	7.9	3.9	108.96	-1,324.5	613.5	1,542.4	1,530.9	11.46	134.543		
2,400.0	2,353.3	2,337.3	2,337.3	8.4	4.1	109.94	-1,324.5	613.5	1,552.5	1,540.4	12.11	128.218		
2,500.0	2,448.9	2,432.9	2,432.9	9.0	4.2	110.91	-1,324.5	613.5	1,563.1	1,550.4	12.75	122.624		
2,600.0	2,544.6	2,528.6	2,528.6	9.5	4.4	111.87	-1,324.5	613.5	1,574.2	1,560.8	13.38	117.653		
2,700.0	2,640.2	2,624.2	2,624.2	10.1	4.6	112.81	-1,324.5	613.5	1,585.7	1,571.7	14.01	113.215		
2,800.0	2,735.8	2,719.8	2,719.8	10.6	4.7	113.74	-1,324.5	613.5	1,597.7	1,583.1	14.63	109.238		
2,900.0	2,831.5	2,815.5	2,815.5	11.2	4.9	114.66	-1,324.5	613.5	1,610.2	1,594.9	15.24	105.662		
3,000.0	2,927.1	2,911.1	2,911.1	11.7	5.1	115.57	-1,324.5	613.5	1,623.0	1,607.2	15.84	102.436		
3,100.0	3,022.7	3,006.7	3,006.7	12.2	5.2	116.46	-1,324.5	613.5	1,636.3	1,619.9	16.44	99.516		
3,200.0	3,118.4	3,102.4	3,102.4	12.8	5.4	117.34	-1,324.5	613.5	1,650.0	1,633.0	17.03	96.867		
3,300.0	3,214.0	3,198.0	3,198.0	13.3	5.6	118.20	-1,324.5	613.5	1,664.1	1,646.5	17.62	94.459		
3,400.0	3,309.6	3,293.6	3,293.6	13.9	5.7	119.05	-1,324.5	613.5	1,678.6	1,660.4	18.19	92.264		
3,500.0	3,405.3	3,389.3	3,389.3	14.4	5.9	119.89	-1,324.5	613.5	1,693.5	1,674.7	18.76	90.261		
3,600.0	3,500.9	3,484.9	3,484.9	15.0	6.1	120.71	-1,324.5	613.5	1,708.7	1,689.4	19.32	88.428		
3,700.0	3,596.5	3,580.5	3,580.5	15.5	6.2	121.52	-1,324.5	613.5	1,724.3	1,704.5	19.88	86.750		
3,800.0	3,692.1	3,676.1	3,676.1	16.1	6.4	122.31	-1,324.5	613.5	1,740.3	1,719.9	20.42	85.210		
3,900.0	3,787.8	3,771.8	3,771.8	16.7	6.6	123.10	-1,324.5	613.5	1,756.6	1,735.6	20.96	83.796		
4,000.0	3,883.4	3,867.4	3,867.4	17.2	6.7	123.86	-1,324.5	613.5	1,773.2	1,751.7	21.49	82.497		
4,100.0	3,979.0	3,963.0	3,963.0	17.8	6.9	124.62	-1,324.5	613.5	1,790.2	1,768.2	22.02	81.301		
4,200.0	4,074.7	4,058.7	4,058.7	18.3	7.1	125.36	-1,324.5	613.5	1,807.4	1,784.9	22.54	80.200		
4,300.0	4,170.3	4,154.3	4,154.3	18.9	7.3	126.09	-1,324.5	613.5	1,825.0	1,802.0	23.05	79.185		
4,400.0	4,265.9	4,249.9	4,249.9	19.4	7.4	126.80	-1,324.5	613.5	1,842.9	1,819.3	23.55	78.250		
4,500.0	4,361.6	4,345.6	4,345.6	20.0	7.6	127.50	-1,324.5	613.5	1,861.0	1,837.0	24.05	77.387		
4,600.0	4,457.2	4,441.2	4,441.2	20.5	7.8	128.19	-1,324.5	613.5	1,879.5	1,854.9	24.54	76.590		
4,700.0	4,552.8	4,536.8	4,536.8	21.1	7.9	128.87	-1,324.5	613.5	1,898.2	1,873.2	25.02	75.856		
4,800.0	4,648.5	4,632.5	4,632.5	21.6	8.1	129.53	-1,324.5	613.5	1,917.2	1,891.7	25.50	75.178		
4,900.0	4,744.1	4,728.1	4,728.1	22.2	8.3	130.18	-1,324.5	613.5	1,936.4	1,910.4	25.97	74.552		
5,000.0	4,839.7	4,823.7	4,823.7	22.7	8.4	130.82	-1,324.5	613.5	1,955.9	1,929.4	26.44	73.974		
5,100.0	4,935.3	4,919.3	4,919.3	23.3	8.6	131.44	-1,324.5	613.5	1,975.6	1,948.7	26.90	73.442		

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 1G-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 1G-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: 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
5,204.0	5,034.8	5,018.8	5,018.8	23.9	8.8	132.08	-1,324.5	613.5	1,996.3	1,969.0	27.37	72.931	
5,300.0	5,126.8	5,110.8	5,110.8	24.4	8.9	132.79	-1,324.5	613.5	2,015.2	1,987.4	27.77	72.568	
5,400.0	5,223.2	5,207.2	5,207.2	24.9	9.1	133.47	-1,324.5	613.5	2,033.8	2,005.7	28.17	72.207	
5,500.0	5,320.0	5,304.0	5,304.0	25.3	9.3	134.10	-1,324.5	613.5	2,051.5	2,023.0	28.55	71.858	
5,600.0	5,417.2	5,401.2	5,401.2	25.8	9.4	134.68	-1,324.5	613.5	2,068.1	2,039.2	28.92	71.514	
5,700.0	5,514.8	5,498.8	5,498.8	26.2	9.6	135.21	-1,324.5	613.5	2,083.6	2,054.4	29.28	71.171	
5,800.0	5,612.8	5,596.8	5,596.8	26.5	9.8	135.69	-1,324.5	613.5	2,098.0	2,068.4	29.62	70.825	
5,900.0	5,711.1	5,695.1	5,695.1	26.9	9.9	136.13	-1,324.5	613.5	2,111.3	2,081.3	29.96	70.474	
6,000.0	5,809.7	5,793.7	5,793.7	27.2	10.1	136.52	-1,324.5	613.5	2,123.4	2,093.1	30.28	70.114	
6,100.0	5,908.6	5,892.6	5,892.6	27.5	10.3	136.87	-1,324.5	613.5	2,134.2	2,103.6	30.60	69.742	
6,200.0	6,007.7	5,991.7	5,991.7	27.8	10.5	137.17	-1,324.5	613.5	2,143.9	2,112.9	30.91	69.358	
6,300.0	6,107.1	6,091.1	6,091.1	28.0	10.6	137.43	-1,324.5	613.5	2,152.2	2,121.0	31.21	68.959	
6,400.0	6,206.6	6,190.6	6,190.6	28.2	10.8	137.65	-1,324.5	613.5	2,159.4	2,127.9	31.50	68.544	
6,500.0	6,306.3	6,290.3	6,290.3	28.4	11.0	137.83	-1,324.5	613.5	2,165.3	2,133.5	31.79	68.112	
6,600.0	6,406.1	6,390.1	6,390.1	28.6	11.2	137.97	-1,324.5	613.5	2,169.8	2,137.8	32.07	67.663	
6,700.0	6,506.0	6,490.0	6,490.0	28.7	11.3	138.07	-1,324.5	613.5	2,173.1	2,140.8	32.34	67.195	
6,800.0	6,606.0	6,590.0	6,590.0	28.8	11.5	138.13	-1,324.5	613.5	2,175.1	2,142.5	32.61	66.709	
6,904.0	6,710.0	6,694.0	6,694.0	28.9	11.7	-162.76	-1,324.5	613.5	2,175.8	2,143.0	32.88	66.182	
6,918.8	6,724.8	6,708.8	6,708.8	28.9	11.7	-162.76	-1,324.5	613.5	2,175.8	2,142.9	32.92	66.100	
6,950.0	6,756.0	6,740.0	6,740.0	28.9	11.8	17.25	-1,324.5	613.5	2,175.2	2,142.2	32.94	66.027	
7,000.0	6,805.8	6,789.8	6,789.8	28.9	11.9	17.37	-1,324.5	613.5	2,171.5	2,138.6	32.86	66.073	
7,050.0	6,855.2	6,839.2	6,839.2	28.8	11.9	17.60	-1,324.5	613.5	2,164.4	2,131.8	32.63	66.333	
7,100.0	6,904.0	6,888.0	6,888.0	28.8	12.0	17.95	-1,324.5	613.5	2,154.1	2,121.8	32.24	66.812	
7,150.0	6,952.0	6,936.0	6,936.0	28.7	12.1	18.42	-1,324.5	613.5	2,140.5	2,108.8	31.70	67.517	
7,200.0	6,998.8	6,982.8	6,982.8	28.6	12.2	19.02	-1,324.5	613.5	2,123.9	2,092.8	31.02	68.457	
7,250.0	7,044.3	7,028.3	7,028.3	28.5	12.3	19.78	-1,324.5	613.5	2,104.1	2,073.9	30.21	69.642	
7,300.0	7,088.2	7,072.2	7,072.2	28.3	12.3	20.71	-1,324.5	613.5	2,081.4	2,052.2	29.28	71.082	
7,350.0	7,130.4	7,114.4	7,114.4	28.2	12.4	21.83	-1,324.5	613.5	2,055.9	2,027.7	28.25	72.780	
7,400.0	7,170.6	7,154.6	7,154.6	28.0	12.5	23.19	-1,324.5	613.5	2,027.7	2,000.6	27.14	74.722	
7,450.0	7,208.6	7,192.6	7,192.6	27.8	12.6	24.82	-1,324.5	613.5	1,997.0	1,971.0	25.98	76.868	
7,500.0	7,244.3	7,228.3	7,228.3	27.7	12.6	26.78	-1,324.5	613.5	1,963.8	1,939.0	24.82	79.123	
7,550.0	7,277.4	7,261.4	7,261.4	27.5	12.7	29.14	-1,324.5	613.5	1,928.5	1,904.8	23.72	81.302	
7,600.0	7,307.8	7,291.8	7,291.8	27.3	12.7	31.97	-1,324.5	613.5	1,891.2	1,868.4	22.76	83.082	
7,650.0	7,335.4	7,319.4	7,319.4	27.2	12.8	35.39	-1,324.5	613.5	1,852.1	1,830.0	22.05	83.984	
7,700.0	7,360.0	7,344.0	7,344.0	27.0	12.8	39.51	-1,324.5	613.5	1,811.3	1,789.6	21.71	83.441	
7,750.0	7,381.6	7,365.6	7,365.6	26.9	12.9	44.45	-1,324.5	613.5	1,769.2	1,747.4	21.83	81.034	
7,800.0	7,399.9	7,383.9	7,383.9	26.8	12.9	50.33	-1,324.5	613.5	1,726.0	1,703.5	22.46	76.838	
7,850.0	7,414.9	7,398.9	7,398.9	26.7	12.9	57.21	-1,324.5	613.5	1,681.9	1,658.4	23.51	71.531	
7,900.0	7,426.6	7,410.6	7,410.6	26.6	12.9	65.03	-1,324.5	613.5	1,637.1	1,612.3	24.77	66.092	
7,950.0	7,434.9	7,418.9	7,418.9	26.5	12.9	73.56	-1,324.5	613.5	1,591.9	1,565.9	25.95	61.345	
8,000.0	7,439.7	7,423.7	7,423.7	26.5	13.0	82.40	-1,324.5	613.5	1,546.5	1,519.7	26.81	57.695	
8,043.8	7,441.0	7,425.0	7,425.0	26.5	13.0	90.00	-1,324.5	613.5	1,506.8	1,479.6	27.21	55.385	
8,100.0	7,441.0	7,425.0	7,425.0	26.6	13.0	90.00	-1,324.5	613.5	1,456.2	1,428.9	27.32	53.303	
8,200.0	7,441.0	7,425.0	7,425.0	26.7	13.0	90.00	-1,324.5	613.5	1,367.3	1,339.6	27.69	49.387	
8,300.0	7,441.0	7,425.0	7,425.0	27.0	13.0	90.00	-1,324.5	613.5	1,280.0	1,251.7	28.24	45.318	
8,400.0	7,441.0	7,425.0	7,425.0	27.4	13.0	90.00	-1,324.5	613.5	1,194.6	1,165.7	28.98	41.228	
8,500.0	7,441.0	7,425.0	7,425.0	27.8	13.0	90.00	-1,324.5	613.5	1,111.8	1,081.9	29.86	37.233	
8,600.0	7,441.0	7,425.0	7,425.0	28.4	13.0	90.00	-1,324.5	613.5	1,031.9	1,001.0	30.87	33.426	
8,700.0	7,441.0	7,425.0	7,425.0	29.1	13.0	90.00	-1,324.5	613.5	955.9	923.9	31.99	29.878	
8,800.0	7,441.0	7,425.0	7,425.0	29.9	13.0	90.00	-1,324.5	613.5	884.6	851.4	33.20	26.643	
8,900.0	7,441.0	7,425.0	7,425.0	30.8	13.0	90.00	-1,324.5	613.5	819.4	784.9	34.49	23.758	
9,000.0	7,441.0	7,425.0	7,425.0	31.7	13.0	90.00	-1,324.5	613.5	761.7	725.9	35.84	21.256	

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 1G-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 1G-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		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		
9,100.0	7,441.0	7,425.0	7,425.0	32.7	13.0	90.00	-1,324.5	613.5	713.5	676.2	37.23	19.161		
9,200.0	7,441.0	7,425.0	7,425.0	33.8	13.0	90.00	-1,324.5	613.5	676.7	638.0	38.68	17.494		
9,300.0	7,441.0	7,425.0	7,425.0	34.9	13.0	90.00	-1,324.5	613.5	653.2	613.1	40.16	16.266		
9,400.0	7,441.0	7,425.0	7,425.0	36.1	13.0	90.00	-1,324.5	613.5	644.6	603.0	41.67	15.470		
9,405.8	7,441.0	7,425.0	7,425.0	36.2	13.0	90.00	-1,324.5	613.5	644.6	602.8	41.76	15.437 CC, ES		
9,500.0	7,441.0	7,425.0	7,425.0	37.3	13.0	90.00	-1,324.5	613.5	651.4	608.2	43.21	15.078		
9,600.0	7,441.0	7,425.0	7,425.0	38.6	13.0	90.00	-1,324.5	613.5	673.2	628.4	44.76	15.039 SF		
9,700.0	7,441.0	7,425.0	7,425.0	39.9	13.0	90.00	-1,324.5	613.5	708.6	662.2	46.34	15.289		
9,800.0	7,441.0	7,425.0	7,425.0	41.2	13.0	90.00	-1,324.5	613.5	755.6	707.6	47.94	15.761		
9,900.0	7,441.0	7,425.0	7,425.0	42.6	13.0	90.00	-1,324.5	613.5	812.2	762.7	49.55	16.393		
10,000.0	7,441.0	7,425.0	7,425.0	44.0	13.0	90.00	-1,324.5	613.5	876.7	825.5	51.17	17.132		
10,100.0	7,441.0	7,425.0	7,425.0	45.4	13.0	90.00	-1,324.5	613.5	947.3	894.5	52.81	17.940		
10,200.0	7,441.0	7,425.0	7,425.0	46.9	13.0	90.00	-1,324.5	613.5	1,022.9	968.4	54.45	18.786		
10,300.0	7,441.0	7,425.0	7,425.0	48.4	13.0	90.00	-1,324.5	613.5	1,102.3	1,046.2	56.10	19.649		
10,400.0	7,441.0	7,425.0	7,425.0	49.8	13.0	90.00	-1,324.5	613.5	1,184.9	1,127.1	57.76	20.513		
10,500.0	7,441.0	7,425.0	7,425.0	51.3	13.0	90.00	-1,324.5	613.5	1,269.9	1,210.5	59.43	21.369		
10,600.0	7,441.0	7,425.0	7,425.0	52.9	13.0	90.00	-1,324.5	613.5	1,357.1	1,296.0	61.10	22.210		
10,700.0	7,441.0	7,425.0	7,425.0	54.4	13.0	90.00	-1,324.5	613.5	1,445.8	1,383.1	62.78	23.030		
10,800.0	7,441.0	7,425.0	7,425.0	55.9	13.0	90.00	-1,324.5	613.5	1,536.0	1,471.5	64.46	23.827		
10,900.0	7,441.0	7,425.0	7,425.0	57.5	13.0	90.00	-1,324.5	613.5	1,627.3	1,561.2	66.15	24.599		
11,000.0	7,441.0	7,425.0	7,425.0	59.1	13.0	90.00	-1,324.5	613.5	1,719.6	1,651.7	67.84	25.346		
11,100.0	7,441.0	7,425.0	7,425.0	60.7	13.0	90.00	-1,324.5	613.5	1,812.7	1,743.1	69.54	26.066		
11,200.0	7,441.0	7,425.0	7,425.0	62.2	13.0	90.00	-1,324.5	613.5	1,906.5	1,835.2	71.24	26.761		
11,300.0	7,441.0	7,425.0	7,425.0	63.8	13.0	90.00	-1,324.5	613.5	2,000.9	1,927.9	72.94	27.431		
11,400.0	7,441.0	7,425.0	7,425.0	65.4	13.0	90.00	-1,324.5	613.5	2,095.8	2,021.1	74.65	28.075		
11,500.0	7,441.0	7,425.0	7,425.0	67.1	13.0	90.00	-1,324.5	613.5	2,191.2	2,114.8	76.36	28.696		
11,600.0	7,441.0	7,425.0	7,425.0	68.7	13.0	90.00	-1,324.5	613.5	2,286.9	2,208.8	78.07	29.294		
11,700.0	7,441.0	7,425.0	7,425.0	70.3	13.0	90.00	-1,324.5	613.5	2,383.0	2,303.2	79.78	29.870		
11,800.0	7,441.0	7,425.0	7,425.0	71.9	13.0	90.00	-1,324.5	613.5	2,479.4	2,398.0	81.50	30.424		
11,900.0	7,441.0	7,425.0	7,425.0	73.6	13.0	90.00	-1,324.5	613.5	2,576.1	2,492.9	83.21	30.959		
12,000.0	7,441.0	7,425.0	7,425.0	75.2	13.0	90.00	-1,324.5	613.5	2,673.1	2,588.1	84.93	31.474		
12,100.0	7,441.0	7,425.0	7,425.0	76.9	13.0	90.00	-1,324.5	613.5	2,770.2	2,683.6	86.65	31.970		
12,135.7	7,441.0	7,425.0	7,425.0	77.5	13.0	90.00	-1,324.5	613.5	2,804.9	2,717.7	87.27	32.143		

CC - Min centre to center distance or covergent 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 1G-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 1G-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		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			
0.0	0.0	0.0	0.0	0.0	0.0	128.90	-284.8	353.0	453.9					
100.0	100.0	84.0	84.0	0.2	0.1	128.90	-284.8	353.0	453.6	453.3	0.30	1,518.809		
200.0	200.0	184.0	184.0	0.3	0.3	128.90	-284.8	353.0	453.6	452.9	0.65	700.297		
300.0	300.0	284.0	284.0	0.5	0.5	69.92	-284.8	353.0	453.3	452.3	1.00	454.394		
400.0	400.0	384.0	384.0	0.7	0.7	70.24	-284.8	353.0	452.4	451.0	1.35	334.819		
500.0	499.9	483.9	483.9	0.9	0.8	70.78	-284.8	353.0	450.9	449.2	1.71	263.417		
600.0	599.7	583.7	583.7	1.1	1.0	71.53	-284.8	353.0	449.0	446.9	2.08	215.522		
700.0	699.4	683.4	683.4	1.3	1.2	72.51	-284.8	353.0	446.5	444.1	2.47	180.902		
800.0	798.9	782.9	782.9	1.5	1.4	73.71	-284.8	353.0	443.7	440.9	2.87	154.565		
900.0	898.3	882.3	882.3	1.8	1.5	75.14	-284.8	353.0	440.7	437.4	3.29	133.791		
1,000.0	997.4	981.4	981.4	2.0	1.7	76.81	-284.8	353.0	437.5	433.8	3.74	116.978		
1,100.0	1,096.3	1,080.3	1,080.3	2.3	1.9	78.72	-284.8	353.0	434.3	430.1	4.21	103.123		
1,200.0	1,194.9	1,178.9	1,178.9	2.7	2.1	80.87	-284.8	353.0	431.4	426.7	4.71	91.567		
1,300.0	1,293.3	1,277.3	1,277.3	3.0	2.2	83.26	-284.8	353.0	428.8	423.6	5.24	81.858		
1,400.0	1,391.2	1,375.2	1,375.2	3.4	2.4	85.89	-284.8	353.0	426.9	421.1	5.79	73.677		
1,500.0	1,488.9	1,472.9	1,472.9	3.8	2.6	88.73	-284.8	353.0	425.8	419.5	6.38	66.786		
1,542.2	1,530.0	1,514.0	1,514.0	4.0	2.6	90.00	-284.8	353.0	425.7	419.1	6.63	64.186 CC		
1,600.0	1,586.1	1,570.1	1,570.1	4.2	2.7	91.79	-284.8	353.0	426.0	419.0	6.98	61.006 ES		
1,700.0	1,682.9	1,666.9	1,666.9	4.7	2.9	95.02	-284.8	353.0	427.5	419.9	7.61	56.194		
1,800.0	1,779.3	1,763.3	1,763.3	5.2	3.1	98.41	-284.8	353.0	430.7	422.5	8.25	52.235		
1,900.0	1,875.2	1,859.2	1,859.2	5.7	3.2	101.90	-284.8	353.0	436.0	427.1	8.89	49.031		
2,000.0	1,970.8	1,954.8	1,954.8	6.3	3.4	105.46	-284.8	353.0	443.2	433.7	9.51	46.586		
2,100.0	2,066.4	2,050.4	2,050.4	6.8	3.6	108.89	-284.8	353.0	452.2	442.1	10.11	44.731		
2,200.0	2,162.1	2,146.1	2,146.1	7.3	3.7	112.19	-284.8	353.0	462.8	452.2	10.68	43.354		
2,300.0	2,257.7	2,241.7	2,241.7	7.9	3.9	115.34	-284.8	353.0	475.1	463.9	11.21	42.363		
2,400.0	2,353.3	2,337.3	2,337.3	8.4	4.1	118.33	-284.8	353.0	488.7	477.0	11.72	41.688		
2,500.0	2,448.9	2,432.9	2,432.9	9.0	4.2	121.17	-284.8	353.0	503.8	491.5	12.21	41.271		
2,600.0	2,544.6	2,528.6	2,528.6	9.5	4.4	123.84	-284.8	353.0	520.0	507.3	12.66	41.063		
2,700.0	2,640.2	2,624.2	2,624.2	10.1	4.6	126.36	-284.8	353.0	537.3	524.2	13.10	41.027		
2,800.0	2,735.8	2,719.8	2,719.8	10.6	4.7	128.73	-284.8	353.0	555.6	542.1	13.51	41.133		
2,900.0	2,831.5	2,815.5	2,815.5	11.2	4.9	130.94	-284.8	353.0	574.8	560.9	13.90	41.352		
3,000.0	2,927.1	2,911.1	2,911.1	11.7	5.1	133.02	-284.8	353.0	594.9	580.6	14.28	41.666		
3,100.0	3,022.7	3,006.7	3,006.7	12.2	5.2	134.97	-284.8	353.0	615.6	601.0	14.64	42.055		
3,200.0	3,118.4	3,102.4	3,102.4	12.8	5.4	136.79	-284.8	353.0	637.1	622.1	14.99	42.504		
3,300.0	3,214.0	3,198.0	3,198.0	13.3	5.6	138.50	-284.8	353.0	659.1	643.8	15.33	43.003		
3,400.0	3,309.6	3,293.6	3,293.6	13.9	5.7	140.10	-284.8	353.0	681.7	666.0	15.66	43.540		
3,500.0	3,405.3	3,389.3	3,389.3	14.4	5.9	141.60	-284.8	353.0	704.8	688.8	15.98	44.106		
3,600.0	3,500.9	3,484.9	3,484.9	15.0	6.1	143.00	-284.8	353.0	728.3	712.0	16.29	44.695		
3,700.0	3,596.5	3,580.5	3,580.5	15.5	6.2	144.33	-284.8	353.0	752.2	735.6	16.60	45.300		
3,800.0	3,692.1	3,676.1	3,676.1	16.1	6.4	145.57	-284.8	353.0	776.5	759.6	16.91	45.917		
3,900.0	3,787.8	3,771.8	3,771.8	16.7	6.6	146.73	-284.8	353.0	801.1	783.9	17.21	46.541		
4,000.0	3,883.4	3,867.4	3,867.4	17.2	6.8	147.83	-284.8	353.0	826.0	808.5	17.51	47.169		
4,100.0	3,979.0	3,963.0	3,963.0	17.8	6.9	148.87	-284.8	353.0	851.2	833.4	17.81	47.798		
4,200.0	4,074.7	4,058.7	4,058.7	18.3	7.1	149.85	-284.8	353.0	876.6	858.5	18.10	48.425		
4,300.0	4,170.3	4,154.3	4,154.3	18.9	7.3	150.77	-284.8	353.0	902.3	883.9	18.40	49.048		
4,400.0	4,265.9	4,249.9	4,249.9	19.4	7.4	151.64	-284.8	353.0	928.2	909.5	18.69	49.665		
4,500.0	4,361.6	4,345.6	4,345.6	20.0	7.6	152.47	-284.8	353.0	954.3	935.3	18.98	50.276		
4,600.0	4,457.2	4,441.2	4,441.2	20.5	7.8	153.25	-284.8	353.0	980.5	961.2	19.27	50.879		
4,700.0	4,552.8	4,536.8	4,536.8	21.1	7.9	153.99	-284.8	353.0	1,006.9	987.4	19.56	51.473		
4,800.0	4,648.5	4,632.5	4,632.5	21.6	8.1	154.70	-284.8	353.0	1,033.5	1,013.6	19.85	52.058		
4,900.0	4,744.1	4,728.1	4,728.1	22.2	8.3	155.37	-284.8	353.0	1,060.2	1,040.1	20.14	52.632		
5,000.0	4,839.7	4,823.7	4,823.7	22.7	8.4	156.01	-284.8	353.0	1,087.0	1,066.6	20.43	53.196		

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 1G-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 1G-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	4,935.3	4,919.3	4,919.3	23.3	8.6	156.61	-284.8	353.0	1,114.0	1,093.3	20.73	53.749		
5,204.0	5,034.8	5,018.8	5,018.8	23.9	8.8	157.22	-284.8	353.0	1,142.2	1,121.1	21.03	54.312		
5,300.0	5,126.8	5,110.8	5,110.8	24.4	8.9	157.83	-284.8	353.0	1,167.5	1,146.2	21.31	54.791		
5,400.0	5,223.2	5,207.2	5,207.2	24.9	9.1	158.41	-284.8	353.0	1,192.5	1,170.9	21.60	55.205		
5,500.0	5,320.0	5,304.0	5,304.0	25.3	9.3	158.93	-284.8	353.0	1,216.0	1,194.1	21.90	55.535		
5,600.0	5,417.2	5,401.2	5,401.2	25.8	9.4	159.40	-284.8	353.0	1,238.0	1,215.8	22.19	55.783		
5,700.0	5,514.8	5,498.8	5,498.8	26.2	9.6	159.82	-284.8	353.0	1,258.4	1,235.9	22.49	55.952		
5,800.0	5,612.8	5,596.8	5,596.8	26.5	9.8	160.19	-284.8	353.0	1,277.2	1,254.4	22.79	56.045		
5,900.0	5,711.1	5,695.1	5,695.1	26.9	9.9	160.52	-284.8	353.0	1,294.5	1,271.4	23.09	56.065		
6,000.0	5,809.7	5,793.7	5,793.7	27.2	10.1	160.82	-284.8	353.0	1,310.1	1,286.8	23.39	56.014		
6,100.0	5,908.6	5,892.6	5,892.6	27.5	10.3	161.07	-284.8	353.0	1,324.2	1,300.5	23.69	55.896		
6,200.0	6,007.7	5,991.7	5,991.7	27.8	10.5	161.30	-284.8	353.0	1,336.6	1,312.6	23.99	55.713		
6,300.0	6,107.1	6,091.1	6,091.1	28.0	10.6	161.49	-284.8	353.0	1,347.4	1,323.1	24.29	55.467		
6,400.0	6,206.6	6,190.6	6,190.6	28.2	10.8	161.64	-284.8	353.0	1,356.6	1,332.0	24.59	55.161		
6,500.0	6,306.3	6,290.3	6,290.3	28.4	11.0	161.77	-284.8	353.0	1,364.1	1,339.2	24.89	54.798		
6,600.0	6,406.1	6,390.1	6,390.1	28.6	11.2	161.87	-284.8	353.0	1,370.0	1,344.8	25.19	54.380		
6,700.0	6,506.0	6,490.0	6,490.0	28.7	11.3	161.94	-284.8	353.0	1,374.2	1,348.7	25.49	53.908		
6,800.0	6,606.0	6,590.0	6,590.0	28.8	11.5	161.98	-284.8	353.0	1,376.7	1,351.0	25.79	53.386		
6,904.0	6,710.0	6,694.0	6,694.0	28.9	11.7	-138.92	-284.8	353.0	1,377.6	1,351.5	26.10	52.790		
6,918.8	6,724.8	6,708.8	6,708.8	28.9	11.7	-138.92	-284.8	353.0	1,377.6	1,351.5	26.14	52.694		
6,950.0	6,756.0	6,740.0	6,740.0	28.9	11.8	41.12	-284.8	353.0	1,377.1	1,351.0	26.18	52.603		
7,000.0	6,805.8	6,789.8	6,789.8	28.9	11.9	41.38	-284.8	353.0	1,374.2	1,348.0	26.14	52.561		
7,050.0	6,855.2	6,839.2	6,839.2	28.8	11.9	41.88	-284.8	353.0	1,368.6	1,342.6	26.00	52.648		
7,100.0	6,904.0	6,888.0	6,888.0	28.8	12.0	42.63	-284.8	353.0	1,360.5	1,334.8	25.75	52.845		
7,150.0	6,952.0	6,936.0	6,936.0	28.7	12.1	43.62	-284.8	353.0	1,350.0	1,324.6	25.41	53.120		
7,200.0	6,998.8	6,982.8	6,982.8	28.6	12.2	44.87	-284.8	353.0	1,337.0	1,312.0	25.03	53.425		
7,250.0	7,044.3	7,028.3	7,028.3	28.5	12.3	46.39	-284.8	353.0	1,321.9	1,297.3	24.62	53.695		
7,300.0	7,088.2	7,072.2	7,072.2	28.3	12.3	48.19	-284.8	353.0	1,304.6	1,280.4	24.23	53.842		
7,350.0	7,130.4	7,114.4	7,114.4	28.2	12.4	50.27	-284.8	353.0	1,285.4	1,261.5	23.91	53.759		
7,400.0	7,170.6	7,154.6	7,154.6	28.0	12.5	52.64	-284.8	353.0	1,264.5	1,240.8	23.70	53.343		
7,450.0	7,208.6	7,192.6	7,192.6	27.8	12.6	55.29	-284.8	353.0	1,242.0	1,218.4	23.65	52.515		
7,500.0	7,244.3	7,228.3	7,228.3	27.7	12.6	58.19	-284.8	353.0	1,218.3	1,194.5	23.77	51.256		
7,550.0	7,277.4	7,261.4	7,261.4	27.5	12.7	61.33	-284.8	353.0	1,193.6	1,169.5	24.05	49.624		
7,600.0	7,307.8	7,291.8	7,291.8	27.3	12.7	64.65	-284.8	353.0	1,168.1	1,143.6	24.47	47.739		
7,650.0	7,335.4	7,319.4	7,319.4	27.2	12.8	68.09	-284.8	353.0	1,142.2	1,117.2	24.96	45.755		
7,700.0	7,360.0	7,344.0	7,344.0	27.0	12.8	71.57	-284.8	353.0	1,116.2	1,090.7	25.48	43.812		
7,750.0	7,381.6	7,365.6	7,365.6	26.9	12.9	75.00	-284.8	353.0	1,090.4	1,064.5	25.95	42.015		
7,800.0	7,399.9	7,383.9	7,383.9	26.8	12.9	78.30	-284.8	353.0	1,065.2	1,038.8	26.35	40.422		
7,850.0	7,414.9	7,398.9	7,398.9	26.7	12.9	81.37	-284.8	353.0	1,040.8	1,014.2	26.66	39.048		
7,900.0	7,426.6	7,410.6	7,410.6	26.6	12.9	84.15	-284.8	353.0	1,017.7	990.9	26.87	37.879		
7,950.0	7,434.9	7,418.9	7,418.9	26.5	12.9	86.56	-284.8	353.0	996.2	969.1	27.01	36.879		
8,000.0	7,439.7	7,423.7	7,423.7	26.5	13.0	88.58	-284.8	353.0	976.4	949.3	27.12	36.008		
8,043.8	7,441.0	7,425.0	7,425.0	26.5	13.0	90.00	-284.8	353.0	960.9	933.7	27.21	35.318		
8,100.0	7,441.0	7,425.0	7,425.0	26.6	13.0	90.00	-284.8	353.0	943.5	916.2	27.32	34.535		
8,200.0	7,441.0	7,425.0	7,425.0	26.7	13.0	90.00	-284.8	353.0	920.3	892.6	27.69	33.242		
8,300.0	7,441.0	7,425.0	7,425.0	27.0	13.0	90.00	-284.8	353.0	907.6	879.4	28.24	32.134		
8,366.2	7,441.0	7,425.0	7,425.0	27.2	13.0	90.00	-284.8	353.0	905.2	876.5	28.73	31.508		
8,400.0	7,441.0	7,425.0	7,425.0	27.4	13.0	90.00	-284.8	353.0	905.8	876.8	28.98	31.261		
8,500.0	7,441.0	7,425.0	7,425.0	27.8	13.0	90.00	-284.8	353.0	915.0	885.2	29.86	30.644		
8,600.0	7,441.0	7,425.0	7,425.0	28.4	13.0	90.00	-284.8	353.0	934.9	904.0	30.87	30.283		
8,700.0	7,441.0	7,425.0	7,425.0	29.1	13.0	90.00	-284.8	353.0	964.8	932.8	31.99	30.157 SF		
8,800.0	7,441.0	7,425.0	7,425.0	29.9	13.0	90.00	-284.8	353.0	1,003.8	970.6	33.20	30.232		

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 1G-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 1G-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	7,441.0	7,425.0	7,425.0	30.8	13.0	90.00	-284.8	353.0	1,050.9	1,016.4	34.49	30.471	
9,000.0	7,441.0	7,425.0	7,425.0	31.7	13.0	90.00	-284.8	353.0	1,105.0	1,069.2	35.84	30.836	
9,100.0	7,441.0	7,425.0	7,425.0	32.7	13.0	90.00	-284.8	353.0	1,165.3	1,128.0	37.23	31.295	
9,200.0	7,441.0	7,425.0	7,425.0	33.8	13.0	90.00	-284.8	353.0	1,230.7	1,192.0	38.68	31.819	
9,300.0	7,441.0	7,425.0	7,425.0	34.9	13.0	90.00	-284.8	353.0	1,300.5	1,260.4	40.16	32.386	
9,400.0	7,441.0	7,425.0	7,425.0	36.1	13.0	90.00	-284.8	353.0	1,374.1	1,332.4	41.67	32.977	
9,500.0	7,441.0	7,425.0	7,425.0	37.3	13.0	90.00	-284.8	353.0	1,450.8	1,407.6	43.21	33.580	
9,600.0	7,441.0	7,425.0	7,425.0	38.6	13.0	90.00	-284.8	353.0	1,530.3	1,485.5	44.76	34.184	
9,700.0	7,441.0	7,425.0	7,425.0	39.9	13.0	90.00	-284.8	353.0	1,612.0	1,565.6	46.34	34.783	
9,800.0	7,441.0	7,425.0	7,425.0	41.2	13.0	90.00	-284.8	353.0	1,695.7	1,647.7	47.94	35.371	
9,900.0	7,441.0	7,425.0	7,425.0	42.6	13.0	90.00	-284.8	353.0	1,781.0	1,731.5	49.55	35.944	
10,000.0	7,441.0	7,425.0	7,425.0	44.0	13.0	90.00	-284.8	353.0	1,867.8	1,816.7	51.17	36.501	
10,100.0	7,441.0	7,425.0	7,425.0	45.4	13.0	90.00	-284.8	353.0	1,955.9	1,903.1	52.81	37.040	
10,200.0	7,441.0	7,425.0	7,425.0	46.9	13.0	90.00	-284.8	353.0	2,045.1	1,990.6	54.45	37.559	
10,300.0	7,441.0	7,425.0	7,425.0	48.4	13.0	90.00	-284.8	353.0	2,135.2	2,079.1	56.10	38.060	
10,400.0	7,441.0	7,425.0	7,425.0	49.8	13.0	90.00	-284.8	353.0	2,226.2	2,168.4	57.76	38.541	
10,500.0	7,441.0	7,425.0	7,425.0	51.3	13.0	90.00	-284.8	353.0	2,317.9	2,258.5	59.43	39.003	
10,600.0	7,441.0	7,425.0	7,425.0	52.9	13.0	90.00	-284.8	353.0	2,410.3	2,349.2	61.10	39.447	
10,700.0	7,441.0	7,425.0	7,425.0	54.4	13.0	90.00	-284.8	353.0	2,503.2	2,440.4	62.78	39.873	
10,800.0	7,441.0	7,425.0	7,425.0	55.9	13.0	90.00	-284.8	353.0	2,596.7	2,532.2	64.46	40.282	
10,900.0	7,441.0	7,425.0	7,425.0	57.5	13.0	90.00	-284.8	353.0	2,690.7	2,624.5	66.15	40.674	
11,000.0	7,441.0	7,425.0	7,425.0	59.1	13.0	90.00	-284.8	353.0	2,785.0	2,717.2	67.84	41.050	
11,100.0	7,441.0	7,425.0	7,425.0	60.7	13.0	90.00	-284.8	353.0	2,879.8	2,810.2	69.54	41.412	
11,200.0	7,441.0	7,425.0	7,425.0	62.2	13.0	90.00	-284.8	353.0	2,974.9	2,903.6	71.24	41.759	
11,300.0	7,441.0	7,425.0	7,425.0	63.8	13.0	90.00	-284.8	353.0	3,070.3	2,997.4	72.94	42.092	
11,400.0	7,441.0	7,425.0	7,425.0	65.4	13.0	90.00	-284.8	353.0	3,166.0	3,091.3	74.65	42.412	
11,500.0	7,441.0	7,425.0	7,425.0	67.1	13.0	90.00	-284.8	353.0	3,261.9	3,185.6	76.36	42.720	
11,600.0	7,441.0	7,425.0	7,425.0	68.7	13.0	90.00	-284.8	353.0	3,358.1	3,280.1	78.07	43.016	
11,700.0	7,441.0	7,425.0	7,425.0	70.3	13.0	90.00	-284.8	353.0	3,454.5	3,374.8	79.78	43.301	
11,800.0	7,441.0	7,425.0	7,425.0	71.9	13.0	90.00	-284.8	353.0	3,551.1	3,469.6	81.50	43.575	
11,900.0	7,441.0	7,425.0	7,425.0	73.6	13.0	90.00	-284.8	353.0	3,647.9	3,564.7	83.21	43.839	
12,000.0	7,441.0	7,425.0	7,425.0	75.2	13.0	90.00	-284.8	353.0	3,744.9	3,659.9	84.93	44.093	
12,100.0	7,441.0	7,425.0	7,425.0	76.9	13.0	90.00	-284.8	353.0	3,842.0	3,755.3	86.65	44.338	
12,135.7	7,441.0	7,425.0	7,425.0	77.5	13.0	90.00	-284.8	353.0	3,876.6	3,789.4	87.27	44.424	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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				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	170.75	-4,061.0	661.7	4,114.5					
100.0	100.0	82.8	82.8	0.2	0.1	170.74	-4,060.9	662.1	4,114.5	4,114.2	0.30	N/A		
200.0	200.0	207.6	207.6	0.3	0.4	170.72	-4,060.4	663.2	4,114.3	4,113.6	0.69	5,965.117		
292.5	292.5	301.0	301.0	0.5	0.5	111.65	-4,059.8	663.8	4,114.0	4,113.0	1.02	4,050.114		
300.0	300.0	309.9	309.9	0.5	0.5	111.65	-4,059.7	663.8	4,114.0	4,113.0	1.04	3,938.231		
400.0	400.0	426.8	426.8	0.7	0.7	111.67	-4,058.6	664.5	4,114.1	4,112.7	1.43	2,880.658		
500.0	499.9	539.8	539.8	0.9	0.9	111.72	-4,057.1	665.1	4,114.6	4,112.8	1.81	2,270.348		
600.0	599.7	662.7	662.7	1.1	1.2	111.79	-4,054.9	666.6	4,115.2	4,113.0	2.23	1,849.244		
700.0	699.4	769.3	769.2	1.3	1.4	111.86	-4,052.4	668.4	4,116.1	4,113.4	2.62	1,568.817		
800.0	798.9	850.6	850.5	1.5	1.5	111.92	-4,050.5	669.9	4,117.7	4,114.7	2.99	1,376.053		
900.0	898.3	934.3	934.2	1.8	1.7	111.99	-4,049.1	671.4	4,120.6	4,117.2	3.38	1,217.884		
1,000.0	997.4	1,030.1	1,029.9	2.0	1.8	112.09	-4,047.6	673.5	4,124.2	4,120.4	3.82	1,080.794		
1,100.0	1,096.3	1,117.0	1,116.8	2.3	2.0	112.18	-4,046.5	675.2	4,128.9	4,124.6	4.25	970.787		
1,200.0	1,194.9	1,234.8	1,234.5	2.7	2.2	112.35	-4,044.7	677.2	4,134.0	4,129.2	4.77	867.302		
1,300.0	1,293.3	1,333.5	1,333.2	3.0	2.4	112.51	-4,043.2	678.9	4,139.7	4,134.4	5.27	785.583		
1,400.0	1,391.2	1,428.6	1,428.3	3.4	2.5	112.67	-4,041.6	680.3	4,146.1	4,140.3	5.79	716.166		
1,500.0	1,488.9	1,512.8	1,512.5	3.8	2.7	112.82	-4,040.6	681.3	4,153.6	4,147.2	6.31	657.812		
1,600.0	1,586.1	1,625.6	1,625.3	4.2	2.9	113.06	-4,039.0	682.5	4,161.6	4,154.6	6.91	602.000		
1,700.0	1,682.9	1,700.5	1,700.2	4.7	3.0	113.20	-4,038.1	683.3	4,170.6	4,163.1	7.47	558.172		
1,800.0	1,779.3	1,827.7	1,827.3	5.2	3.2	113.53	-4,036.4	684.1	4,180.2	4,172.0	8.14	513.380		
1,900.0	1,875.2	1,915.7	1,915.3	5.7	3.4	113.74	-4,035.1	684.4	4,190.5	4,181.7	8.77	477.674		
2,000.0	1,970.8	2,000.0	1,999.6	6.3	3.5	114.05	-4,034.0	684.3	4,201.5	4,192.1	9.40	447.083		
2,100.0	2,066.4	2,085.6	2,085.2	6.8	3.7	114.37	-4,033.2	683.9	4,212.9	4,202.9	10.03	420.239		
2,200.0	2,162.1	2,152.0	2,151.6	7.3	3.8	114.61	-4,032.9	683.5	4,225.0	4,214.4	10.62	397.732		
2,300.0	2,257.7	2,234.3	2,233.9	7.9	3.9	114.92	-4,033.1	682.9	4,237.9	4,226.6	11.25	376.852		
2,400.0	2,353.3	2,351.6	2,351.2	8.4	4.1	115.35	-4,033.0	682.3	4,250.5	4,238.6	11.92	356.520		
2,500.0	2,448.9	2,439.0	2,438.6	9.0	4.3	115.67	-4,032.8	681.9	4,263.3	4,250.8	12.55	339.654		
2,600.0	2,544.6	2,522.8	2,522.4	9.5	4.4	115.97	-4,032.8	681.7	4,276.6	4,263.4	13.18	324.582		
2,700.0	2,640.2	2,619.7	2,619.3	10.1	4.6	116.31	-4,033.0	681.7	4,290.1	4,276.2	13.82	310.475		
2,800.0	2,735.8	2,726.8	2,726.4	10.6	4.8	116.69	-4,032.9	681.8	4,303.6	4,289.1	14.47	297.339		
2,900.0	2,831.5	2,848.9	2,848.5	11.2	5.0	117.11	-4,032.5	682.0	4,316.9	4,301.8	15.15	284.939		
3,000.0	2,927.1	2,952.7	2,952.3	11.7	5.2	117.47	-4,031.4	682.5	4,329.7	4,313.9	15.80	274.084		
3,100.0	3,022.7	3,044.0	3,043.6	12.2	5.4	117.78	-4,030.6	682.3	4,342.9	4,326.5	16.42	264.462		
3,200.0	3,118.4	3,153.7	3,153.3	12.8	5.5	118.17	-4,029.6	681.2	4,356.1	4,339.0	17.07	255.203		
3,300.0	3,214.0	3,253.5	3,253.1	13.3	5.7	118.53	-4,028.3	679.9	4,369.2	4,351.5	17.70	246.856		
3,400.0	3,309.6	3,341.6	3,341.2	13.9	5.9	118.84	-4,027.3	678.7	4,382.4	4,364.1	18.31	239.341		
3,500.0	3,405.3	3,426.2	3,425.7	14.4	6.0	119.14	-4,026.5	677.5	4,396.1	4,377.2	18.91	232.421		
3,600.0	3,500.9	3,514.4	3,513.9	15.0	6.2	119.46	-4,025.9	676.2	4,410.2	4,390.6	19.52	225.916		
3,700.0	3,596.5	3,601.2	3,600.8	15.5	6.3	119.76	-4,025.4	674.9	4,424.5	4,404.4	20.12	219.865		
3,800.0	3,692.1	3,695.3	3,694.8	16.1	6.5	120.09	-4,025.0	673.4	4,439.2	4,418.4	20.73	214.109		
3,900.0	3,787.8	3,775.1	3,774.5	16.7	6.6	120.37	-4,024.8	672.0	4,454.1	4,432.8	21.32	208.907		
4,000.0	3,883.4	3,871.5	3,871.0	17.2	6.8	120.70	-4,024.8	670.6	4,469.5	4,447.5	21.93	203.813		
4,100.0	3,979.0	3,969.2	3,968.7	17.8	7.0	121.02	-4,024.6	670.5	4,484.8	4,462.3	22.54	198.985		
4,200.0	4,074.7	4,069.7	4,069.2	18.3	7.1	121.35	-4,024.5	670.7	4,500.3	4,477.2	23.15	194.405		
4,300.0	4,170.3	4,150.6	4,150.1	18.9	7.3	121.61	-4,024.3	670.4	4,515.9	4,492.2	23.73	190.299		
4,400.0	4,265.9	4,228.8	4,228.3	19.4	7.4	121.87	-4,024.6	669.3	4,532.1	4,507.8	24.31	186.469		
4,500.0	4,361.6	4,329.0	4,328.4	20.0	7.6	122.22	-4,025.0	666.9	4,548.6	4,523.7	24.90	182.663		
4,600.0	4,457.2	4,454.9	4,454.2	20.5	7.8	122.67	-4,024.8	662.7	4,564.9	4,539.4	25.52	178.850		
4,700.0	4,552.8	4,593.8	4,593.1	21.1	8.0	123.17	-4,023.5	657.3	4,580.5	4,554.4	26.16	175.125		
4,800.0	4,648.5	4,681.7	4,680.9	21.6	8.2	123.48	-4,022.3	654.1	4,595.9	4,569.2	26.73	171.959		
4,900.0	4,744.1	4,762.8	4,762.0	22.2	8.3	123.76	-4,021.4	651.4	4,611.7	4,584.4	27.29	168.999		
5,000.0	4,839.7	4,844.1	4,843.2	22.7	8.5	124.04	-4,020.7	648.6	4,627.9	4,600.1	27.85	166.188		

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 1G-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 1G-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		
5,100.0	4,935.3	4,900.0	4,899.1	23.3	8.6	124.24	-4,020.4	646.5	4,644.7	4,616.3	28.38	163.681		
5,204.0	5,034.8	4,978.5	4,977.5	23.9	8.7	124.51	-4,020.4	643.4	4,662.8	4,633.8	28.95	161.085		
5,300.0	5,126.8	5,048.8	5,047.8	24.4	8.8	124.89	-4,021.0	640.4	4,679.9	4,650.5	29.43	159.034		
5,400.0	5,223.2	5,158.7	5,157.5	24.9	9.0	125.39	-4,022.1	636.0	4,697.1	4,667.2	29.95	156.854		
5,500.0	5,320.0	5,281.6	5,280.3	25.3	9.3	125.87	-4,022.5	631.9	4,712.7	4,682.3	30.46	154.719		
5,600.0	5,417.2	5,388.2	5,386.8	25.8	9.4	126.29	-4,022.5	627.8	4,727.2	4,696.2	30.94	152.808		
5,700.0	5,514.8	5,477.2	5,475.8	26.2	9.6	126.63	-4,022.5	624.3	4,740.7	4,709.3	31.37	151.124		
5,800.0	5,612.8	5,561.1	5,559.7	26.5	9.8	126.93	-4,022.7	621.4	4,753.4	4,721.6	31.78	149.585		
5,900.0	5,711.1	5,656.6	5,655.1	26.9	9.9	127.23	-4,023.2	618.5	4,765.4	4,733.3	32.18	148.084		
6,000.0	5,809.7	5,757.4	5,755.9	27.2	10.1	127.50	-4,023.7	616.4	4,776.4	4,743.8	32.58	146.627		
6,100.0	5,908.6	5,852.7	5,851.2	27.5	10.3	127.74	-4,024.2	614.2	4,786.3	4,753.4	32.94	145.289		
6,200.0	6,007.7	5,952.8	5,951.2	27.8	10.4	127.96	-4,024.8	611.9	4,795.3	4,762.0	33.30	143.998		
6,300.0	6,107.1	6,051.8	6,050.3	28.0	10.6	128.15	-4,025.4	609.9	4,803.2	4,769.5	33.64	142.776		
6,400.0	6,206.6	6,142.6	6,141.0	28.2	10.8	128.31	-4,026.0	608.1	4,810.1	4,776.2	33.95	141.671		
6,500.0	6,306.3	6,232.9	6,231.3	28.4	10.9	128.44	-4,026.8	606.5	4,816.2	4,781.9	34.25	140.631		
6,600.0	6,406.1	6,327.2	6,325.6	28.6	11.1	128.55	-4,027.9	605.3	4,821.3	4,786.8	34.53	139.619		
6,700.0	6,506.0	6,424.5	6,422.9	28.7	11.3	128.63	-4,029.1	604.3	4,825.5	4,790.7	34.81	138.636		
6,800.0	6,606.0	6,575.0	6,573.4	28.8	11.5	128.71	-4,030.4	602.5	4,828.2	4,793.1	35.16	137.337		
6,904.0	6,710.0	6,669.0	6,667.4	28.9	11.7	-172.19	-4,030.6	602.0	4,829.1	4,793.7	35.40	136.414		
6,918.8	6,724.8	6,680.2	6,678.5	28.9	11.7	-172.19	-4,030.7	602.0	4,829.2	4,793.8	35.43	136.291		
6,950.0	6,756.0	6,708.0	6,706.3	28.9	11.8	7.81	-4,030.9	602.0	4,828.8	4,793.3	35.46	136.191		
7,000.0	6,805.8	6,791.3	6,789.7	28.9	11.9	7.86	-4,031.2	602.1	4,825.1	4,789.6	35.44	136.163		
7,050.0	6,855.2	6,843.3	6,841.6	28.8	12.0	7.95	-4,031.2	602.3	4,817.7	4,782.5	35.21	136.836		
7,100.0	6,904.0	6,891.1	6,889.4	28.8	12.1	8.09	-4,031.2	602.8	4,807.0	4,772.2	34.82	138.040		
7,150.0	6,952.0	6,943.2	6,941.6	28.7	12.2	8.27	-4,031.3	603.6	4,792.9	4,758.6	34.30	139.741		
7,200.0	6,998.8	6,995.3	6,993.6	28.6	12.3	8.52	-4,031.3	604.2	4,775.5	4,741.8	33.63	142.004		
7,250.0	7,044.3	7,049.7	7,048.0	28.5	12.4	8.83	-4,031.1	604.4	4,754.8	4,722.0	32.83	144.852		
7,300.0	7,088.2	7,100.0	7,098.3	28.3	12.4	9.23	-4,030.9	604.3	4,731.0	4,699.1	31.88	148.380		
7,350.0	7,130.4	7,137.0	7,135.3	28.2	12.5	9.69	-4,030.7	604.1	4,704.2	4,673.3	30.81	152.706		
7,400.0	7,170.6	7,170.6	7,168.9	28.0	12.6	10.26	-4,030.5	603.9	4,674.6	4,644.9	29.62	157.840		
7,450.0	7,208.6	7,203.2	7,201.5	27.8	12.6	10.95	-4,030.4	603.5	4,642.3	4,614.0	28.33	163.842		
7,500.0	7,244.3	7,241.6	7,239.9	27.7	12.7	11.81	-4,030.2	603.1	4,607.6	4,580.6	26.99	170.735		
7,550.0	7,277.4	7,277.1	7,275.4	27.5	12.8	12.88	-4,030.0	602.6	4,570.4	4,544.8	25.59	178.612		
7,600.0	7,307.8	7,312.4	7,310.7	27.3	12.8	14.22	-4,029.8	602.0	4,531.1	4,506.9	24.18	187.420		
7,650.0	7,335.4	7,349.7	7,348.0	27.2	12.9	15.96	-4,029.5	601.2	4,489.7	4,466.9	22.80	196.928		
7,700.0	7,360.0	7,382.7	7,381.0	27.0	12.9	18.22	-4,029.1	600.4	4,446.5	4,425.0	21.52	206.606		
7,750.0	7,381.6	7,400.0	7,398.3	26.9	13.0	21.10	-4,028.9	599.9	4,401.7	4,381.2	20.44	215.346		
7,800.0	7,399.9	7,421.6	7,419.8	26.8	13.0	25.14	-4,028.6	599.2	4,355.5	4,335.8	19.75	220.580		
7,850.0	7,414.9	7,433.6	7,431.9	26.7	13.0	30.78	-4,028.5	598.8	4,308.3	4,288.6	19.68	218.936		
7,900.0	7,426.6	7,442.8	7,441.1	26.6	13.1	39.16	-4,028.4	598.5	4,260.2	4,239.6	20.61	206.693		
7,950.0	7,434.9	7,449.2	7,447.5	26.5	13.1	52.02	-4,028.3	598.3	4,211.4	4,188.6	22.85	184.334		
8,000.0	7,439.7	7,452.7	7,451.0	26.5	13.1	71.24	-4,028.2	598.2	4,162.3	4,136.4	25.85	160.989		
8,043.8	7,441.0	7,453.4	7,451.7	26.5	13.1	92.31	-4,028.2	598.1	4,119.0	4,091.7	27.31	150.835		
8,100.0	7,441.0	7,452.8	7,451.1	26.6	13.1	92.26	-4,028.2	598.2	4,063.6	4,036.2	27.42	148.196		
8,200.0	7,441.0	7,451.8	7,450.0	26.7	13.1	92.17	-4,028.2	598.2	3,964.9	3,937.2	27.78	142.720		
8,300.0	7,441.0	7,450.8	7,449.0	27.0	13.1	92.08	-4,028.3	598.2	3,866.4	3,838.0	28.34	136.450		
8,400.0	7,441.0	7,449.7	7,448.0	27.4	13.1	91.99	-4,028.3	598.3	3,767.9	3,738.8	29.06	129.647		
8,500.0	7,441.0	7,448.7	7,446.9	27.8	13.1	91.90	-4,028.3	598.3	3,669.5	3,639.5	29.94	122.557		
8,600.0	7,441.0	7,447.6	7,445.9	28.4	13.1	91.81	-4,028.3	598.3	3,571.1	3,540.2	30.95	115.393		
8,700.0	7,441.0	7,446.5	7,444.8	29.1	13.1	91.72	-4,028.3	598.4	3,472.9	3,440.9	32.06	108.316		
8,800.0	7,441.0	7,445.5	7,443.7	29.9	13.1	91.63	-4,028.3	598.4	3,374.8	3,341.5	33.27	101.441		
8,900.0	7,441.0	7,444.4	7,442.7	30.8	13.1	91.53	-4,028.3	598.4	3,276.8	3,242.2	34.55	94.843		

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 1G-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 1G-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		
9,000.0	7,441.0	7,443.3	7,441.6	31.7	13.1	91.44	-4,028.3	598.5	3,178.9	3,143.0	35.89	88.566		
9,100.0	7,441.0	7,442.2	7,440.5	32.7	13.1	91.35	-4,028.4	598.5	3,081.1	3,043.8	37.29	82.629		
9,200.0	7,441.0	7,441.2	7,439.4	33.8	13.0	91.25	-4,028.4	598.6	2,983.5	2,944.8	38.73	77.037		
9,300.0	7,441.0	7,440.1	7,438.3	34.9	13.0	91.16	-4,028.4	598.6	2,886.1	2,845.9	40.20	71.784		
9,400.0	7,441.0	7,439.0	7,437.2	36.1	13.0	91.06	-4,028.4	598.6	2,788.8	2,747.1	41.71	66.858		
9,500.0	7,441.0	7,437.9	7,436.1	37.3	13.0	90.97	-4,028.4	598.7	2,691.8	2,648.5	43.25	62.242		
9,600.0	7,441.0	7,436.7	7,435.0	38.6	13.0	90.87	-4,028.4	598.7	2,594.9	2,550.1	44.80	57.918		
9,700.0	7,441.0	7,435.6	7,433.9	39.9	13.0	90.77	-4,028.4	598.7	2,498.3	2,452.0	46.38	53.868		
9,800.0	7,441.0	7,434.5	7,432.8	41.2	13.0	90.67	-4,028.5	598.8	2,402.0	2,354.1	47.97	50.071		
9,900.0	7,441.0	7,433.4	7,431.6	42.6	13.0	90.58	-4,028.5	598.8	2,306.0	2,256.5	49.58	46.512		
10,000.0	7,441.0	7,432.2	7,430.5	44.0	13.0	90.48	-4,028.5	598.9	2,210.4	2,159.2	51.20	43.172		
10,100.0	7,441.0	7,431.1	7,429.4	45.4	13.0	90.38	-4,028.5	598.9	2,115.2	2,062.3	52.83	40.036		
10,200.0	7,441.0	7,430.0	7,428.2	46.9	13.0	90.28	-4,028.5	598.9	2,020.4	1,965.9	54.47	37.090		
10,300.0	7,441.0	7,428.8	7,427.1	48.4	13.0	90.18	-4,028.5	599.0	1,926.1	1,870.0	56.12	34.320		
10,400.0	7,441.0	7,427.6	7,425.9	49.8	13.0	90.08	-4,028.5	599.0	1,832.5	1,774.7	57.78	31.715		
10,500.0	7,441.0	7,426.5	7,424.7	51.3	13.0	89.98	-4,028.6	599.0	1,739.5	1,680.1	59.44	29.264		
10,600.0	7,441.0	7,425.3	7,423.6	52.9	13.0	89.87	-4,028.6	599.1	1,647.4	1,586.3	61.11	26.957		
10,700.0	7,441.0	7,424.1	7,422.4	54.4	13.0	89.77	-4,028.6	599.1	1,556.3	1,493.5	62.79	24.786		
10,800.0	7,441.0	7,422.9	7,421.2	55.9	13.0	89.67	-4,028.6	599.2	1,466.3	1,401.8	64.47	22.744		
10,900.0	7,441.0	7,421.7	7,420.0	57.5	13.0	89.57	-4,028.6	599.2	1,377.7	1,311.5	66.15	20.825		
11,000.0	7,441.0	7,420.5	7,418.8	59.1	13.0	89.46	-4,028.6	599.2	1,290.8	1,222.9	67.84	19.025		
11,100.0	7,441.0	7,419.3	7,417.6	60.7	13.0	89.36	-4,028.7	599.3	1,205.8	1,136.3	69.54	17.341		
11,200.0	7,441.0	7,418.1	7,416.4	62.2	13.0	89.25	-4,028.7	599.3	1,123.4	1,052.2	71.23	15.771		
11,300.0	7,441.0	7,416.9	7,415.2	63.8	13.0	89.15	-4,028.7	599.4	1,044.0	971.1	72.93	14.316		
11,400.0	7,441.0	7,415.7	7,414.0	65.4	13.0	89.04	-4,028.7	599.4	968.5	893.9	74.63	12.978		
11,500.0	7,441.0	7,414.5	7,412.7	67.1	13.0	88.93	-4,028.7	599.4	897.8	821.5	76.33	11.761		
11,600.0	7,441.0	7,413.2	7,411.5	68.7	13.0	88.82	-4,028.7	599.5	833.1	755.0	78.04	10.675		
11,700.0	7,441.0	7,412.0	7,410.2	70.3	13.0	88.72	-4,028.8	599.5	775.9	696.1	79.75	9.729		
11,800.0	7,441.0	7,410.7	7,409.0	71.9	13.0	88.61	-4,028.8	599.5	728.0	646.5	81.45	8.937		
11,900.0	7,441.0	7,409.5	7,407.7	73.6	13.0	88.50	-4,028.8	599.6	691.3	608.2	83.17	8.313		
12,000.0	7,441.0	7,408.2	7,406.5	75.2	13.0	88.39	-4,028.8	599.6	667.8	582.9	84.88	7.868		
12,100.0	7,441.0	7,406.9	7,405.2	76.9	13.0	88.28	-4,028.8	599.7	658.7	572.1	86.59	7.607		
12,110.2	7,441.0	7,406.8	7,405.1	77.0	13.0	88.27	-4,028.8	599.7	658.6	571.9	86.76	7.591 CC, ES		
12,135.7	7,441.0	7,406.5	7,404.7	77.5	13.0	88.24	-4,028.8	599.7	659.1	571.9	87.20	7.559 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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				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	8.0	8.0	0.0	0.0	127.80	-273.2	352.2	445.7					
100.0	100.0	117.4	117.4	0.2	0.1	127.73	-271.6	351.1	444.0	443.7	0.25	1,805.057		
200.0	200.0	211.7	211.6	0.3	0.2	127.49	-269.2	350.9	442.3	441.8	0.50	876.281		
300.0	300.0	308.3	308.2	0.5	0.3	68.05	-266.0	352.7	441.4	440.6	0.77	573.437		
400.0	400.0	408.3	408.0	0.7	0.4	67.56	-260.8	356.4	440.3	439.2	1.05	417.593		
500.0	499.9	516.9	516.0	0.9	0.5	66.72	-251.4	362.1	437.7	436.4	1.38	318.226		
600.0	599.7	632.0	629.9	1.1	0.7	65.50	-235.9	367.8	431.6	429.8	1.74	248.462		
700.0	699.4	752.2	748.2	1.3	0.9	64.12	-214.6	371.0	420.5	418.4	2.14	196.608		
800.0	798.9	868.2	861.6	1.5	1.1	62.79	-190.3	370.4	404.6	402.0	2.55	158.360		
900.0	898.3	983.0	973.2	1.8	1.3	61.80	-164.3	364.6	383.2	380.2	2.98	128.523		
1,000.0	997.4	1,087.6	1,074.5	2.0	1.6	61.21	-139.8	356.3	358.4	355.0	3.40	105.272		
1,100.0	1,096.3	1,195.2	1,178.5	2.3	1.8	61.02	-114.5	344.6	330.2	326.4	3.85	85.875		
1,200.0	1,194.9	1,299.7	1,278.7	2.7	2.1	61.27	-88.7	329.6	297.8	293.5	4.29	69.414		
1,300.0	1,293.3	1,396.3	1,370.8	3.0	2.3	62.10	-64.6	313.6	262.6	257.8	4.74	55.420		
1,400.0	1,391.2	1,491.5	1,461.5	3.4	2.5	63.55	-40.7	297.3	226.0	220.8	5.20	43.457		
1,500.0	1,488.9	1,585.8	1,551.0	3.8	2.8	65.94	-16.4	280.3	187.9	182.2	5.68	33.090		
1,600.0	1,586.1	1,679.1	1,639.2	4.2	3.1	69.85	8.6	263.0	148.5	142.3	6.16	24.098		
1,700.0	1,682.9	1,770.0	1,724.8	4.7	3.3	76.63	33.9	246.1	108.7	102.1	6.61	16.438		
1,800.0	1,779.3	1,859.6	1,809.5	5.2	3.6	91.43	58.2	229.6	72.1	65.1	6.93	10.406		
1,900.0	1,875.2	1,948.8	1,894.2	5.7	3.8	125.31	80.9	213.1	49.3	42.0	7.29	6.762		
1,920.0	1,894.3	1,966.6	1,911.2	5.8	3.9	134.32	85.2	209.8	48.5	41.1	7.36	6.591 CC, ES, SF		
2,000.0	1,970.8	2,038.9	1,980.2	6.3	4.1	166.82	102.6	196.9	59.5	52.1	7.36	8.079		
2,100.0	2,066.4	2,129.7	2,066.7	6.8	4.3	-170.39	124.8	180.7	91.0	83.1	7.92	11.496		
2,200.0	2,162.1	2,221.5	2,154.3	7.3	4.5	-159.69	146.9	165.2	128.5	119.8	8.69	14.787		
2,300.0	2,257.7	2,313.4	2,242.5	7.9	4.8	-154.09	168.5	150.5	167.3	157.9	9.39	17.823		
2,400.0	2,353.3	2,406.1	2,331.6	8.4	5.0	-150.69	190.0	136.0	206.6	196.6	10.03	20.604		
2,500.0	2,448.9	2,499.3	2,421.2	9.0	5.3	-148.48	211.2	122.5	245.4	234.7	10.64	23.050		
2,600.0	2,544.6	2,589.5	2,507.8	9.5	5.5	-146.71	232.6	109.2	284.6	273.3	11.25	25.292		
2,700.0	2,640.2	2,681.2	2,596.0	10.1	5.7	-145.54	253.4	95.2	324.3	312.5	11.83	27.416		
2,800.0	2,735.8	2,775.3	2,687.0	10.6	5.9	-144.83	273.5	81.3	363.6	351.2	12.39	29.343		
2,900.0	2,831.5	2,866.3	2,774.7	11.2	6.2	-144.16	293.6	68.3	402.6	389.7	12.96	31.066		
3,000.0	2,927.1	2,954.0	2,859.0	11.7	6.4	-143.51	313.8	55.0	442.5	429.0	13.53	32.701		
3,100.0	3,022.7	3,044.0	2,945.3	12.2	6.6	-142.85	335.3	41.0	482.9	468.8	14.12	34.195		
3,200.0	3,118.4	3,132.9	3,030.1	12.8	6.9	-142.13	357.9	26.9	523.8	509.0	14.73	35.560		
3,300.0	3,214.0	3,223.8	3,116.8	13.3	7.1	-141.48	381.3	12.4	564.8	549.5	15.34	36.824		
3,400.0	3,309.6	3,314.8	3,203.3	13.9	7.4	-140.86	405.1	-2.1	606.0	590.0	15.95	37.985		
3,500.0	3,405.3	3,410.7	3,294.9	14.4	7.6	-140.37	429.4	-17.1	646.8	630.2	16.56	39.055		
3,600.0	3,500.9	3,502.8	3,383.2	15.0	7.9	-140.10	451.3	-31.3	687.2	670.1	17.14	40.093		
3,700.0	3,596.5	3,592.7	3,469.3	15.5	8.1	-139.79	473.4	-45.1	727.8	710.0	17.73	41.042		
3,800.0	3,692.1	3,684.4	3,557.0	16.1	8.4	-139.53	495.7	-59.4	768.4	750.1	18.31	41.961		
3,900.0	3,787.8	3,777.3	3,646.4	16.7	8.6	-139.42	516.8	-73.9	808.9	790.0	18.87	42.855		
4,000.0	3,883.4	3,869.1	3,734.5	17.2	8.8	-139.29	537.9	-88.0	849.2	829.8	19.45	43.666		
4,100.0	3,979.0	3,956.0	3,817.9	17.8	9.1	-139.16	558.3	-101.9	890.1	870.1	20.01	44.483		
4,200.0	4,074.7	4,065.1	3,922.7	18.3	9.3	-139.01	583.8	-118.3	930.2	909.6	20.62	45.113		
4,300.0	4,170.3	4,161.9	4,016.3	18.9	9.5	-139.00	604.6	-132.0	969.2	948.0	21.17	45.788		
4,400.0	4,265.9	4,274.0	4,125.5	19.4	9.8	-139.23	624.6	-146.9	1,006.8	985.1	21.69	46.413		
4,500.0	4,361.6	4,377.3	4,226.6	20.0	10.0	-139.47	642.2	-159.2	1,043.1	1,020.9	22.20	46.983		
4,600.0	4,457.2	4,482.0	4,329.3	20.5	10.2	-139.73	659.1	-170.9	1,078.7	1,056.0	22.70	47.521		
4,700.0	4,552.8	4,640.8	4,486.2	21.1	10.4	-140.37	679.3	-184.0	1,111.1	1,088.0	23.18	47.937		
4,800.0	4,648.5	4,750.5	4,595.4	21.6	10.5	-141.05	687.5	-189.2	1,139.7	1,116.1	23.54	48.422		
4,900.0	4,744.1	4,862.6	4,707.3	22.2	10.5	-142.07	688.9	-194.6	1,167.8	1,144.0	23.81	49.037		
5,000.0	4,839.7	5,008.5	4,853.2	22.7	10.6	-143.24	691.7	-196.5	1,192.8	1,168.8	24.07	49.556		

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 1G-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 1G-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		
5,100.0	4,935.3	5,113.1	4,957.8	23.3	10.6	-144.19	690.3	-195.5	1,215.7	1,191.4	24.30	50.029		
5,204.0	5,034.8	5,213.2	5,057.8	23.9	10.7	-145.07	688.7	-194.3	1,239.6	1,215.0	24.54	50.507		
5,300.0	5,126.8	5,303.3	5,147.9	24.4	10.7	-145.96	686.9	-193.3	1,261.2	1,236.4	24.76	50.942		
5,400.0	5,223.2	5,397.0	5,241.6	24.9	10.7	-146.76	686.0	-192.4	1,282.8	1,257.8	24.98	51.350		
5,500.0	5,320.0	5,495.7	5,340.3	25.3	10.7	-147.52	685.2	-191.5	1,303.2	1,278.0	25.19	51.732		
5,600.0	5,417.2	5,597.5	5,442.1	25.8	10.8	-148.23	684.1	-190.4	1,322.0	1,296.6	25.38	52.085		
5,700.0	5,514.8	5,688.1	5,532.6	26.2	10.8	-148.83	682.9	-189.2	1,339.4	1,313.8	25.57	52.374		
5,800.0	5,612.8	5,778.0	5,622.6	26.5	10.8	-149.35	682.0	-188.9	1,356.3	1,330.6	25.76	52.659		
5,900.0	5,711.1	5,880.3	5,724.9	26.9	10.8	-149.90	680.3	-188.5	1,371.8	1,345.9	25.92	52.931		
6,000.0	5,809.7	5,986.8	5,831.4	27.2	10.9	-150.43	678.3	-187.7	1,385.5	1,359.5	26.06	53.162		
6,100.0	5,908.6	6,099.7	5,944.2	27.5	10.9	-150.96	675.1	-185.9	1,397.0	1,370.8	26.18	53.359		
6,200.0	6,007.7	6,192.4	6,036.8	27.8	10.9	-151.38	671.9	-184.0	1,406.6	1,380.3	26.31	53.473		
6,300.0	6,107.1	6,275.4	6,119.8	28.0	10.9	-151.68	670.1	-183.1	1,415.6	1,389.2	26.46	53.506		
6,400.0	6,206.6	6,370.5	6,214.9	28.2	11.0	-151.90	670.0	-182.9	1,424.0	1,397.4	26.63	53.485		
6,500.0	6,306.3	6,467.6	6,312.0	28.4	11.0	-152.07	670.3	-182.9	1,431.0	1,404.2	26.79	53.412		
6,600.0	6,406.1	6,565.7	6,410.1	28.6	11.1	-152.20	670.4	-183.1	1,436.6	1,409.7	26.95	53.297		
6,700.0	6,506.0	6,659.7	6,504.1	28.7	11.1	-152.29	670.6	-183.5	1,440.9	1,413.8	27.11	53.149		
6,800.0	6,606.0	6,756.0	6,600.4	28.8	11.1	-152.37	670.1	-184.2	1,444.1	1,416.8	27.25	52.986		
6,904.0	6,710.0	6,855.5	6,699.9	28.9	11.2	-93.34	669.3	-185.1	1,446.0	1,418.6	27.40	52.774		
6,918.8	6,724.8	6,870.1	6,714.5	28.9	11.2	-93.35	669.3	-185.3	1,446.1	1,418.7	27.42	52.733		
6,950.0	6,756.0	6,901.5	6,745.9	28.9	11.2	86.65	669.2	-185.7	1,446.5	1,419.0	27.46	52.677		
7,000.0	6,805.8	6,951.9	6,796.2	28.9	11.2	86.77	669.0	-186.3	1,446.8	1,419.3	27.50	52.605		
7,050.0	6,855.2	7,001.1	6,845.4	28.8	11.3	87.03	668.7	-186.8	1,447.0	1,419.5	27.54	52.535		
7,100.0	6,904.0	7,049.5	6,893.9	28.8	11.3	87.44	668.5	-187.4	1,447.1	1,419.5	27.58	52.475		
7,150.0	6,952.0	7,097.9	6,942.2	28.7	11.3	87.97	668.4	-187.9	1,447.1	1,419.5	27.60	52.435		
7,200.0	6,998.8	7,145.1	6,989.5	28.6	11.3	88.61	668.1	-188.5	1,447.2	1,419.6	27.60	52.432		
7,250.0	7,044.3	7,192.6	7,036.9	28.5	11.4	89.37	667.9	-189.0	1,447.3	1,419.8	27.59	52.467		
7,300.0	7,088.2	7,238.3	7,082.6	28.3	11.4	90.20	667.9	-189.4	1,447.8	1,420.2	27.54	52.571		
7,350.0	7,130.4	7,280.5	7,124.8	28.2	11.4	91.02	667.8	-189.8	1,448.6	1,421.2	27.45	52.776		
7,400.0	7,170.6	7,320.6	7,165.0	28.0	11.4	91.85	667.8	-190.1	1,450.1	1,422.8	27.31	53.089		
7,450.0	7,208.6	7,358.6	7,202.9	27.8	11.4	92.64	667.9	-190.4	1,452.4	1,425.2	27.14	53.522		
7,500.0	7,244.3	7,394.2	7,238.6	27.7	11.5	93.37	667.9	-190.7	1,455.5	1,428.6	26.91	54.080		
7,550.0	7,277.4	7,427.3	7,271.7	27.5	11.5	94.00	667.9	-191.0	1,459.8	1,433.2	26.66	54.766		
7,600.0	7,307.8	7,458.6	7,303.0	27.3	11.5	94.53	668.0	-191.3	1,465.4	1,439.0	26.37	55.565		
7,650.0	7,335.4	7,487.1	7,331.5	27.2	11.5	94.91	668.0	-191.5	1,472.3	1,446.2	26.07	56.469		
7,700.0	7,360.0	7,512.6	7,357.0	27.0	11.5	95.10	668.0	-191.7	1,480.6	1,454.9	25.77	57.453		
7,750.0	7,381.6	7,535.1	7,379.5	26.9	11.5	95.09	668.0	-191.9	1,490.6	1,465.1	25.49	58.482		
7,800.0	7,399.9	7,554.4	7,398.7	26.8	11.5	94.85	668.0	-192.0	1,502.1	1,476.9	25.24	59.519		
7,850.0	7,414.9	7,570.2	7,414.5	26.7	11.5	94.34	668.0	-192.1	1,515.3	1,490.3	25.04	60.525		
7,900.0	7,426.6	7,582.4	7,426.7	26.6	11.6	93.57	668.0	-192.1	1,530.1	1,505.2	24.89	61.470		
7,950.0	7,434.9	7,591.0	7,435.3	26.5	11.6	92.51	668.0	-192.2	1,546.6	1,521.8	24.81	62.336		
8,000.0	7,439.7	7,596.0	7,440.3	26.5	11.6	91.17	668.0	-192.2	1,564.6	1,539.8	24.78	63.129		
8,043.8	7,441.0	7,597.4	7,441.7	26.5	11.6	89.75	668.0	-192.2	1,581.5	1,556.7	24.79	63.786		
8,100.0	7,441.0	7,597.4	7,441.7	26.6	11.6	89.75	668.0	-192.2	1,604.7	1,579.8	24.91	64.426		
8,200.0	7,441.0	7,597.3	7,441.6	26.7	11.6	89.75	668.0	-192.2	1,650.0	1,624.7	25.27	65.286		
8,300.0	7,441.0	7,597.2	7,441.6	27.0	11.6	89.75	668.0	-192.2	1,700.0	1,674.1	25.83	65.807		
8,400.0	7,441.0	7,597.2	7,441.5	27.4	11.6	89.74	668.0	-192.2	1,754.2	1,727.6	26.57	66.034		
8,500.0	7,441.0	7,597.1	7,441.5	27.8	11.6	89.74	668.0	-192.2	1,812.3	1,784.9	27.45	66.026		
8,600.0	7,441.0	7,597.1	7,441.4	28.4	11.6	89.74	668.0	-192.2	1,874.0	1,845.5	28.46	65.844		
8,700.0	7,441.0	7,597.0	7,441.4	29.1	11.6	89.74	668.0	-192.2	1,938.8	1,909.3	29.58	65.543		
8,800.0	7,441.0	7,597.0	7,441.3	29.9	11.6	89.74	668.0	-192.2	2,006.6	1,975.8	30.79	65.167		
8,900.0	7,441.0	7,596.9	7,441.3	30.8	11.6	89.73	668.0	-192.2	2,077.0	2,044.9	32.08	64.748		

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 1G-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 1G-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		
9,000.0	7,441.0	7,596.9	7,441.2	31.7	11.6	89.73	668.0	-192.2	2,149.7	2,116.2	33.43	64.313		
9,100.0	7,441.0	7,596.8	7,441.2	32.7	11.6	89.73	668.0	-192.2	2,224.5	2,189.7	34.82	63.876		
9,200.0	7,441.0	7,596.8	7,441.1	33.8	11.6	89.73	668.0	-192.2	2,301.2	2,265.0	36.27	63.450		
9,300.0	7,441.0	7,596.7	7,441.1	34.9	11.6	89.73	668.0	-192.2	2,379.7	2,342.0	37.75	63.042		
9,400.0	7,441.0	7,596.7	7,441.0	36.1	11.6	89.72	668.0	-192.2	2,459.7	2,420.5	39.26	62.654		
9,500.0	7,441.0	7,596.6	7,441.0	37.3	11.6	89.72	668.0	-192.2	2,541.2	2,500.4	40.80	62.290		
9,600.0	7,441.0	7,596.6	7,440.9	38.6	11.6	89.72	668.0	-192.2	2,623.9	2,581.6	42.36	61.950		
9,700.0	7,441.0	7,596.5	7,440.9	39.9	11.6	89.72	668.0	-192.2	2,707.8	2,663.9	43.93	61.633		
9,800.0	7,441.0	7,596.5	7,440.8	41.2	11.6	89.72	668.0	-192.2	2,792.8	2,747.2	45.53	61.340		
9,900.0	7,441.0	7,596.4	7,440.8	42.6	11.6	89.71	668.0	-192.2	2,878.7	2,831.6	47.14	61.067		
10,000.0	7,441.0	7,596.4	7,440.7	44.0	11.6	89.71	668.0	-192.2	2,965.5	2,916.7	48.76	60.815		
10,100.0	7,441.0	7,596.3	7,440.7	45.4	11.6	89.71	668.0	-192.2	3,053.1	3,002.7	50.40	60.582		
10,200.0	7,441.0	7,596.3	7,440.6	46.9	11.6	89.71	668.0	-192.2	3,141.5	3,089.4	52.04	60.367		
10,300.0	7,441.0	7,596.2	7,440.6	48.4	11.6	89.71	668.0	-192.2	3,230.5	3,176.8	53.69	60.167		
10,400.0	7,441.0	7,596.2	7,440.5	49.8	11.6	89.71	668.0	-192.2	3,320.2	3,264.8	55.35	59.982		
10,500.0	7,441.0	7,596.2	7,440.5	51.3	11.6	89.70	668.0	-192.2	3,410.4	3,353.4	57.02	59.811		
10,600.0	7,441.0	7,596.1	7,440.4	52.9	11.6	89.70	668.0	-192.2	3,501.2	3,442.5	58.69	59.653		
10,700.0	7,441.0	7,596.1	7,440.4	54.4	11.6	89.70	668.0	-192.2	3,592.4	3,532.0	60.37	59.506		
10,800.0	7,441.0	7,596.0	7,440.3	55.9	11.6	89.70	668.0	-192.2	3,684.1	3,622.1	62.05	59.369		
10,900.0	7,441.0	7,596.0	7,440.3	57.5	11.6	89.70	668.0	-192.2	3,776.2	3,712.5	63.74	59.242		
11,000.0	7,441.0	7,595.9	7,440.3	59.1	11.6	89.69	668.0	-192.2	3,868.8	3,803.3	65.44	59.124		
11,100.0	7,441.0	7,595.9	7,440.2	60.7	11.6	89.69	668.0	-192.2	3,961.6	3,894.5	67.13	59.013		
11,200.0	7,441.0	7,595.8	7,440.2	62.2	11.6	89.69	668.0	-192.2	4,054.9	3,986.0	68.83	58.911		
11,300.0	7,441.0	7,595.8	7,440.1	63.8	11.6	89.69	668.0	-192.2	4,148.4	4,077.9	70.53	58.815		
11,400.0	7,441.0	7,595.7	7,440.1	65.4	11.6	89.69	668.0	-192.2	4,242.2	4,170.0	72.24	58.725		
11,500.0	7,441.0	7,595.7	7,440.0	67.1	11.6	89.68	668.0	-192.2	4,336.3	4,262.4	73.95	58.641		
11,600.0	7,441.0	7,595.6	7,440.0	68.7	11.6	89.68	668.0	-192.2	4,430.7	4,355.1	75.66	58.562		
11,700.0	7,441.0	7,595.6	7,439.9	70.3	11.6	89.68	668.0	-192.2	4,525.3	4,448.0	77.37	58.489		
11,800.0	7,441.0	7,595.6	7,439.9	71.9	11.6	89.68	668.0	-192.2	4,620.2	4,541.1	79.09	58.420		
11,900.0	7,441.0	7,595.5	7,439.8	73.6	11.6	89.68	668.0	-192.2	4,715.2	4,634.4	80.80	58.355		
12,000.0	7,441.0	7,595.5	7,439.8	75.2	11.6	89.68	668.0	-192.2	4,810.5	4,727.9	82.52	58.293		
12,100.0	7,441.0	7,595.4	7,439.8	76.9	11.6	89.67	668.0	-192.2	4,905.9	4,821.7	84.24	58.236		
12,135.7	7,441.0	7,595.4	7,439.7	77.5	11.6	89.67	668.0	-192.2	4,940.0	4,855.1	84.86	58.216		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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		
0.0	0.0	0.0	0.0	0.0	0.0	-179.40	-1,872.4	-19.6	1,872.5					
100.0	100.0	84.0	84.0	0.2	0.1	-179.40	-1,872.4	-19.6	1,872.5	1,872.2	0.30	6,273.269		
200.0	200.0	184.0	184.0	0.3	0.3	-179.40	-1,872.4	-19.6	1,872.5	1,871.8	0.65	2,891.764		
300.0	300.0	284.0	284.0	0.5	0.5	121.54	-1,872.4	-19.6	1,872.9	1,871.9	1.00	1,878.141		
400.0	400.0	384.0	384.0	0.7	0.7	121.59	-1,872.4	-19.6	1,874.3	1,872.9	1.35	1,388.437		
500.0	499.9	483.9	483.9	0.9	0.8	121.69	-1,872.4	-19.6	1,876.6	1,874.9	1.71	1,098.523		
600.0	599.7	583.7	583.7	1.1	1.0	121.82	-1,872.4	-19.6	1,879.8	1,877.7	2.07	906.022		
700.0	699.4	683.4	683.4	1.3	1.2	121.99	-1,872.4	-19.6	1,884.0	1,881.5	2.45	768.415		
800.0	798.9	782.9	782.9	1.5	1.4	122.19	-1,872.4	-19.6	1,889.1	1,886.2	2.84	664.893		
900.0	898.3	882.3	882.3	1.8	1.5	122.43	-1,872.4	-19.6	1,895.1	1,891.9	3.24	584.071		
1,000.0	997.4	981.4	981.4	2.0	1.7	122.70	-1,872.4	-19.6	1,902.2	1,898.5	3.66	519.195		
1,100.0	1,096.3	1,080.3	1,080.3	2.3	1.9	123.00	-1,872.4	-19.6	1,910.3	1,906.2	4.10	465.998		
1,200.0	1,194.9	1,178.9	1,178.9	2.7	2.1	123.33	-1,872.4	-19.6	1,919.4	1,914.9	4.55	421.643		
1,300.0	1,293.3	1,277.3	1,277.3	3.0	2.2	123.69	-1,872.4	-19.6	1,929.6	1,924.6	5.02	384.165		
1,400.0	1,391.2	1,375.2	1,375.2	3.4	2.4	124.08	-1,872.4	-19.6	1,940.9	1,935.3	5.51	352.154		
1,500.0	1,488.9	1,472.9	1,472.9	3.8	2.6	124.50	-1,872.4	-19.6	1,953.3	1,947.2	6.02	324.570		
1,600.0	1,586.1	1,570.1	1,570.1	4.2	2.7	124.93	-1,872.4	-19.6	1,966.8	1,960.3	6.54	300.623		
1,700.0	1,682.9	1,666.9	1,666.9	4.7	2.9	125.39	-1,872.4	-19.6	1,981.5	1,974.4	7.08	279.703		
1,800.0	1,779.3	1,763.3	1,763.3	5.2	3.1	125.87	-1,872.4	-19.6	1,997.5	1,989.8	7.64	261.327		
1,900.0	1,875.2	1,859.2	1,859.2	5.7	3.2	126.37	-1,872.4	-19.6	2,014.7	2,006.5	8.22	245.111		
2,000.0	1,970.8	1,954.8	1,954.8	6.3	3.4	127.01	-1,872.4	-19.6	2,032.7	2,023.9	8.79	231.182		
2,100.0	2,066.4	2,050.4	2,050.4	6.8	3.6	127.65	-1,872.4	-19.6	2,050.9	2,041.5	9.36	219.057		
2,200.0	2,162.1	2,146.1	2,146.1	7.3	3.7	128.27	-1,872.4	-19.6	2,069.4	2,059.4	9.93	208.425		
2,300.0	2,257.7	2,241.7	2,241.7	7.9	3.9	128.89	-1,872.4	-19.6	2,088.1	2,077.6	10.49	199.044		
2,400.0	2,353.3	2,337.3	2,337.3	8.4	4.1	129.49	-1,872.4	-19.6	2,107.1	2,096.0	11.05	190.716		
2,500.0	2,448.9	2,432.9	2,432.9	9.0	4.2	130.08	-1,872.4	-19.6	2,126.3	2,114.7	11.60	183.282		
2,600.0	2,544.6	2,528.6	2,528.6	9.5	4.4	130.66	-1,872.4	-19.6	2,145.7	2,133.5	12.15	176.615		
2,700.0	2,640.2	2,624.2	2,624.2	10.1	4.6	131.24	-1,872.4	-19.6	2,165.3	2,152.6	12.69	170.608		
2,800.0	2,735.8	2,719.8	2,719.8	10.6	4.7	131.80	-1,872.4	-19.6	2,185.2	2,172.0	13.23	165.173		
2,900.0	2,831.5	2,815.5	2,815.5	11.2	4.9	132.35	-1,872.4	-19.6	2,205.3	2,191.5	13.76	160.237		
3,000.0	2,927.1	2,911.1	2,911.1	11.7	5.1	132.90	-1,872.4	-19.6	2,225.5	2,211.3	14.29	155.738		
3,100.0	3,022.7	3,006.7	3,006.7	12.2	5.2	133.43	-1,872.4	-19.6	2,246.0	2,231.2	14.81	151.625		
3,200.0	3,118.4	3,102.4	3,102.4	12.8	5.4	133.95	-1,872.4	-19.6	2,266.7	2,251.3	15.33	147.854		
3,300.0	3,214.0	3,198.0	3,198.0	13.3	5.6	134.47	-1,872.4	-19.6	2,287.5	2,271.7	15.84	144.386		
3,400.0	3,309.6	3,293.6	3,293.6	13.9	5.7	134.98	-1,872.4	-19.6	2,308.6	2,292.2	16.35	141.189		
3,500.0	3,405.3	3,389.3	3,389.3	14.4	5.9	135.47	-1,872.4	-19.6	2,329.8	2,312.9	16.85	138.235		
3,600.0	3,500.9	3,484.9	3,484.9	15.0	6.1	135.96	-1,872.4	-19.6	2,351.2	2,333.8	17.35	135.500		
3,700.0	3,596.5	3,580.5	3,580.5	15.5	6.2	136.44	-1,872.4	-19.6	2,372.7	2,354.9	17.84	132.962		
3,800.0	3,692.1	3,676.1	3,676.1	16.1	6.4	136.92	-1,872.4	-19.6	2,394.4	2,376.1	18.33	130.602		
3,900.0	3,787.8	3,771.8	3,771.8	16.7	6.6	137.38	-1,872.4	-19.6	2,416.3	2,397.5	18.82	128.405		
4,000.0	3,883.4	3,867.4	3,867.4	17.2	6.7	137.84	-1,872.4	-19.6	2,438.3	2,419.0	19.30	126.354		
4,100.0	3,979.0	3,963.0	3,963.0	17.8	6.9	138.29	-1,872.4	-19.6	2,460.5	2,440.7	19.77	124.439		
4,200.0	4,074.7	4,058.7	4,058.7	18.3	7.1	138.73	-1,872.4	-19.6	2,482.8	2,462.6	20.24	122.646		
4,300.0	4,170.3	4,154.3	4,154.3	18.9	7.3	139.16	-1,872.4	-19.6	2,505.3	2,484.6	20.71	120.967		
4,400.0	4,265.9	4,249.9	4,249.9	19.4	7.4	139.58	-1,872.4	-19.6	2,527.9	2,506.7	21.17	119.391		
4,500.0	4,361.6	4,345.6	4,345.6	20.0	7.6	140.00	-1,872.4	-19.6	2,550.6	2,529.0	21.63	117.910		
4,600.0	4,457.2	4,441.2	4,441.2	20.5	7.8	140.41	-1,872.4	-19.6	2,573.5	2,551.4	22.09	116.518		
4,700.0	4,552.8	4,536.8	4,536.8	21.1	7.9	140.82	-1,872.4	-19.6	2,596.5	2,573.9	22.54	115.207		
4,800.0	4,648.5	4,632.5	4,632.5	21.6	8.1	141.21	-1,872.4	-19.6	2,619.6	2,596.6	22.98	113.971		
4,900.0	4,744.1	4,728.1	4,728.1	22.2	8.3	141.61	-1,872.4	-19.6	2,642.8	2,619.4	23.43	112.805		
5,000.0	4,839.7	4,823.7	4,823.7	22.7	8.4	141.99	-1,872.4	-19.6	2,666.2	2,642.3	23.87	111.704		
5,100.0	4,935.3	4,919.3	4,919.3	23.3	8.6	142.37	-1,872.4	-19.6	2,689.7	2,665.4	24.31	110.664		

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 1G-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 1G-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							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				
5,204.0	5,034.8	5,018.8	5,018.8	23.9	8.8	142.75	-1,872.4	-19.6	2,714.2	2,689.5	24.76	109.641				
5,300.0	5,126.8	5,110.8	5,110.8	24.4	8.9	143.23	-1,872.4	-19.6	2,736.3	2,711.2	25.14	108.843				
5,400.0	5,223.2	5,207.2	5,207.2	24.9	9.1	143.69	-1,872.4	-19.6	2,758.1	2,732.6	25.53	108.039				
5,500.0	5,320.0	5,304.0	5,304.0	25.3	9.3	144.12	-1,872.4	-19.6	2,778.7	2,752.8	25.91	107.254				
5,600.0	5,417.2	5,401.2	5,401.2	25.8	9.4	144.51	-1,872.4	-19.6	2,797.9	2,771.6	26.28	106.482				
5,700.0	5,514.8	5,498.8	5,498.8	26.2	9.6	144.87	-1,872.4	-19.6	2,815.7	2,789.1	26.63	105.720				
5,800.0	5,612.8	5,596.8	5,596.8	26.5	9.8	145.20	-1,872.4	-19.6	2,832.2	2,805.2	26.98	104.963				
5,900.0	5,711.1	5,695.1	5,695.1	26.9	9.9	145.49	-1,872.4	-19.6	2,847.3	2,820.0	27.32	104.208				
6,000.0	5,809.7	5,793.7	5,793.7	27.2	10.1	145.76	-1,872.4	-19.6	2,861.1	2,833.4	27.66	103.452				
6,100.0	5,908.6	5,892.6	5,892.6	27.5	10.3	145.99	-1,872.4	-19.6	2,873.4	2,845.4	27.98	102.691				
6,200.0	6,007.7	5,991.7	5,991.7	27.8	10.5	146.20	-1,872.4	-19.6	2,884.3	2,856.0	28.30	101.925				
6,300.0	6,107.1	6,091.1	6,091.1	28.0	10.6	146.38	-1,872.4	-19.6	2,893.8	2,865.2	28.61	101.152				
6,400.0	6,206.6	6,190.6	6,190.6	28.2	10.8	146.53	-1,872.4	-19.6	2,901.9	2,873.0	28.91	100.369				
6,500.0	6,306.3	6,290.3	6,290.3	28.4	11.0	146.65	-1,872.4	-19.6	2,908.5	2,879.3	29.21	99.576				
6,600.0	6,406.1	6,390.1	6,390.1	28.6	11.2	146.74	-1,872.4	-19.6	2,913.7	2,884.2	29.50	98.772				
6,700.0	6,506.0	6,490.0	6,490.0	28.7	11.3	146.81	-1,872.4	-19.6	2,917.4	2,887.6	29.78	97.957				
6,800.0	6,606.0	6,590.0	6,590.0	28.8	11.5	146.85	-1,872.4	-19.6	2,919.6	2,889.6	30.06	97.129				
6,904.0	6,710.0	6,694.0	6,694.0	28.9	11.7	-154.05	-1,872.4	-19.6	2,920.4	2,890.1	30.34	96.252				
6,918.8	6,724.8	6,708.8	6,708.8	28.9	11.7	-154.05	-1,872.4	-19.6	2,920.4	2,890.0	30.38	96.117				
6,950.0	6,756.0	6,740.0	6,740.0	28.9	11.8	25.97	-1,872.4	-19.6	2,919.8	2,889.4	30.41	96.009				
7,000.0	6,805.8	6,789.8	6,789.8	28.9	11.9	26.13	-1,872.4	-19.6	2,916.3	2,885.9	30.34	96.115				
7,050.0	6,855.2	6,839.2	6,839.2	28.8	11.9	26.43	-1,872.4	-19.6	2,909.7	2,879.5	30.13	96.582				
7,100.0	6,904.0	6,888.0	6,888.0	28.8	12.0	26.88	-1,872.4	-19.6	2,899.9	2,870.2	29.77	97.412				
7,150.0	6,952.0	6,936.0	6,936.0	28.7	12.1	27.49	-1,872.4	-19.6	2,887.2	2,857.9	29.28	98.609				
7,200.0	6,998.8	6,982.8	6,982.8	28.6	12.2	28.27	-1,872.4	-19.6	2,871.5	2,842.9	28.67	100.172				
7,250.0	7,044.3	7,028.3	7,028.3	28.5	12.3	29.23	-1,872.4	-19.6	2,853.0	2,825.0	27.94	102.094				
7,300.0	7,088.2	7,072.2	7,072.2	28.3	12.3	30.40	-1,872.4	-19.6	2,831.7	2,804.5	27.14	104.350				
7,350.0	7,130.4	7,114.4	7,114.4	28.2	12.4	31.80	-1,872.4	-19.6	2,807.7	2,781.5	26.27	106.888				
7,400.0	7,170.6	7,154.6	7,154.6	28.0	12.5	33.46	-1,872.4	-19.6	2,781.3	2,755.9	25.38	109.604				
7,450.0	7,208.6	7,192.6	7,192.6	27.8	12.6	35.40	-1,872.4	-19.6	2,752.5	2,728.0	24.51	112.316				
7,500.0	7,244.3	7,228.3	7,228.3	27.7	12.6	37.68	-1,872.4	-19.6	2,721.5	2,697.8	23.72	114.741				
7,550.0	7,277.4	7,261.4	7,261.4	27.5	12.7	40.33	-1,872.4	-19.6	2,688.5	2,665.4	23.08	116.482				
7,600.0	7,307.8	7,291.8	7,291.8	27.3	12.7	43.40	-1,872.4	-19.6	2,653.7	2,631.0	22.67	117.070				
7,650.0	7,335.4	7,319.4	7,319.4	27.2	12.8	46.95	-1,872.4	-19.6	2,617.2	2,594.7	22.54	116.097				
7,700.0	7,360.0	7,344.0	7,344.0	27.0	12.8	50.99	-1,872.4	-19.6	2,579.4	2,556.6	22.74	113.406				
7,750.0	7,381.6	7,365.6	7,365.6	26.9	12.9	55.57	-1,872.4	-19.6	2,540.3	2,517.0	23.26	109.231				
7,800.0	7,399.9	7,383.9	7,383.9	26.8	12.9	60.68	-1,872.4	-19.6	2,500.2	2,476.2	24.01	104.151				
7,850.0	7,414.9	7,398.9	7,398.9	26.7	12.9	66.26	-1,872.4	-19.6	2,459.3	2,434.4	24.87	98.870				
7,900.0	7,426.6	7,410.6	7,410.6	26.6	12.9	72.23	-1,872.4	-19.6	2,417.9	2,392.2	25.73	93.989				
7,950.0	7,434.9	7,418.9	7,418.9	26.5	12.9	78.42	-1,872.4	-19.6	2,376.2	2,349.8	26.44	89.877				
8,000.0	7,439.7	7,423.7	7,423.7	26.5	13.0	84.66	-1,872.4	-19.6	2,334.4	2,307.5	26.94	86.646				
8,043.8	7,441.0	7,425.0	7,425.0	26.5	13.0	90.00	-1,872.4	-19.6	2,297.9	2,270.7	27.21	84.462				
8,100.0	7,441.0	7,425.0	7,425.0	26.6	13.0	90.00	-1,872.4	-19.6	2,251.4	2,224.1	27.32	82.409				
8,200.0	7,441.0	7,425.0	7,425.0	26.7	13.0	90.00	-1,872.4	-19.6	2,169.8	2,142.1	27.69	78.375				
8,300.0	7,441.0	7,425.0	7,425.0	27.0	13.0	90.00	-1,872.4	-19.6	2,089.8	2,061.6	28.24	73.992				
8,400.0	7,441.0	7,425.0	7,425.0	27.4	13.0	90.00	-1,872.4	-19.6	2,011.6	1,982.6	28.98	69.423				
8,500.0	7,441.0	7,425.0	7,425.0	27.8	13.0	90.00	-1,872.4	-19.6	1,935.4	1,905.5	29.86	64.817				
8,600.0	7,441.0	7,425.0	7,425.0	28.4	13.0	90.00	-1,872.4	-19.6	1,861.5	1,830.6	30.87	60.297				
8,700.0	7,441.0	7,425.0	7,425.0	29.1	13.0	90.00	-1,872.4	-19.6	1,790.1	1,758.1	31.99	55.954				
8,800.0	7,441.0	7,425.0	7,425.0	29.9	13.0	90.00	-1,872.4	-19.6	1,721.5	1,688.3	33.20	51.849				
8,900.0	7,441.0	7,425.0	7,425.0	30.8	13.0	90.00	-1,872.4	-19.6	1,656.1	1,621.7	34.49	48.022				
9,000.0	7,441.0	7,425.0	7,425.0	31.7	13.0	90.00	-1,872.4	-19.6	1,594.4	1,558.6	35.84	44.492				

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 1G-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 1G-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
9,100.0	7,441.0	7,425.0	7,425.0	32.7	13.0	90.00	-1,872.4	-19.6	1,536.7	1,499.4	37.23	41.269		
9,200.0	7,441.0	7,425.0	7,425.0	33.8	13.0	90.00	-1,872.4	-19.6	1,483.4	1,444.8	38.68	38.353		
9,300.0	7,441.0	7,425.0	7,425.0	34.9	13.0	90.00	-1,872.4	-19.6	1,435.2	1,395.1	40.16	35.739		
9,400.0	7,441.0	7,425.0	7,425.0	36.1	13.0	90.00	-1,872.4	-19.6	1,392.5	1,350.8	41.67	33.419		
9,500.0	7,441.0	7,425.0	7,425.0	37.3	13.0	90.00	-1,872.4	-19.6	1,355.9	1,312.6	43.21	31.382		
9,600.0	7,441.0	7,425.0	7,425.0	38.6	13.0	90.00	-1,872.4	-19.6	1,325.7	1,281.0	44.76	29.616		
9,700.0	7,441.0	7,425.0	7,425.0	39.9	13.0	90.00	-1,872.4	-19.6	1,302.6	1,256.3	46.34	28.108		
9,800.0	7,441.0	7,425.0	7,425.0	41.2	13.0	90.00	-1,872.4	-19.6	1,286.9	1,239.0	47.94	26.844		
9,900.0	7,441.0	7,425.0	7,425.0	42.6	13.0	90.00	-1,872.4	-19.6	1,278.8	1,229.3	49.55	25.809		
9,953.7	7,441.0	7,425.0	7,425.0	43.4	13.0	90.00	-1,872.4	-19.6	1,277.7	1,227.3	50.42	25.340 CC, ES		
10,000.0	7,441.0	7,425.0	7,425.0	44.0	13.0	90.00	-1,872.4	-19.6	1,278.5	1,227.3	51.17	24.985		
10,100.0	7,441.0	7,425.0	7,425.0	45.4	13.0	90.00	-1,872.4	-19.6	1,286.0	1,233.2	52.81	24.354		
10,200.0	7,441.0	7,425.0	7,425.0	46.9	13.0	90.00	-1,872.4	-19.6	1,301.2	1,246.7	54.45	23.897		
10,300.0	7,441.0	7,425.0	7,425.0	48.4	13.0	90.00	-1,872.4	-19.6	1,323.8	1,267.7	56.10	23.596		
10,400.0	7,441.0	7,425.0	7,425.0	49.8	13.0	90.00	-1,872.4	-19.6	1,353.4	1,295.6	57.76	23.430		
10,500.0	7,441.0	7,425.0	7,425.0	51.3	13.0	90.00	-1,872.4	-19.6	1,389.6	1,330.1	59.43	23.382 SF		
10,600.0	7,441.0	7,425.0	7,425.0	52.9	13.0	90.00	-1,872.4	-19.6	1,431.8	1,370.7	61.10	23.434		
10,700.0	7,441.0	7,425.0	7,425.0	54.4	13.0	90.00	-1,872.4	-19.6	1,479.7	1,416.9	62.78	23.569		
10,800.0	7,441.0	7,425.0	7,425.0	55.9	13.0	90.00	-1,872.4	-19.6	1,532.5	1,468.1	64.46	23.773		
10,900.0	7,441.0	7,425.0	7,425.0	57.5	13.0	90.00	-1,872.4	-19.6	1,589.9	1,523.8	66.15	24.034		
11,000.0	7,441.0	7,425.0	7,425.0	59.1	13.0	90.00	-1,872.4	-19.6	1,651.4	1,583.6	67.84	24.341		
11,100.0	7,441.0	7,425.0	7,425.0	60.7	13.0	90.00	-1,872.4	-19.6	1,716.5	1,647.0	69.54	24.683		
11,200.0	7,441.0	7,425.0	7,425.0	62.2	13.0	90.00	-1,872.4	-19.6	1,784.8	1,713.6	71.24	25.054		
11,300.0	7,441.0	7,425.0	7,425.0	63.8	13.0	90.00	-1,872.4	-19.6	1,856.0	1,783.1	72.94	25.445		
11,400.0	7,441.0	7,425.0	7,425.0	65.4	13.0	90.00	-1,872.4	-19.6	1,929.8	1,855.2	74.65	25.852		
11,500.0	7,441.0	7,425.0	7,425.0	67.1	13.0	90.00	-1,872.4	-19.6	2,005.8	1,929.5	76.36	26.269		
11,600.0	7,441.0	7,425.0	7,425.0	68.7	13.0	90.00	-1,872.4	-19.6	2,083.9	2,005.8	78.07	26.694		
11,700.0	7,441.0	7,425.0	7,425.0	70.3	13.0	90.00	-1,872.4	-19.6	2,163.8	2,084.0	79.78	27.122		
11,800.0	7,441.0	7,425.0	7,425.0	71.9	13.0	90.00	-1,872.4	-19.6	2,245.3	2,163.8	81.50	27.551		
11,900.0	7,441.0	7,425.0	7,425.0	73.6	13.0	90.00	-1,872.4	-19.6	2,328.2	2,245.0	83.21	27.979		
12,000.0	7,441.0	7,425.0	7,425.0	75.2	13.0	90.00	-1,872.4	-19.6	2,412.4	2,327.5	84.93	28.404		
12,100.0	7,441.0	7,425.0	7,425.0	76.9	13.0	90.00	-1,872.4	-19.6	2,497.8	2,411.1	86.65	28.826		
12,135.7	7,441.0	7,425.0	7,425.0	77.5	13.0	90.00	-1,872.4	-19.6	2,528.5	2,441.2	87.27	28.975		

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 1G-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 1G-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	171.43	-4,061.7	612.2	4,107.6					
100.0	100.0	117.0	117.0	0.2	0.2	171.43	-4,061.7	612.2	4,107.6	4,107.2	0.33	N/A		
159.8	159.8	176.8	176.8	0.3	0.3	171.43	-4,061.7	612.2	4,107.6	4,107.0	0.54	7,575.219		
200.0	200.0	200.0	200.0	0.3	0.3	171.43	-4,061.7	612.2	4,107.6	4,106.9	0.65	6,292.726		
300.0	300.0	272.3	272.3	0.5	0.5	112.36	-4,062.2	611.5	4,108.5	4,107.6	0.96	4,295.715		
400.0	400.0	334.0	334.0	0.7	0.6	112.38	-4,063.4	609.6	4,111.1	4,109.8	1.25	3,290.317		
500.0	499.9	400.0	399.8	0.9	0.7	112.43	-4,065.6	606.4	4,115.2	4,113.7	1.56	2,635.057		
600.0	599.7	456.3	455.9	1.1	0.8	112.48	-4,068.1	602.7	4,121.0	4,119.1	1.88	2,193.199		
700.0	699.4	500.0	499.5	1.3	0.9	112.50	-4,070.5	599.2	4,128.4	4,126.3	2.18	1,891.708		
800.0	798.9	576.2	575.1	1.5	1.1	112.62	-4,075.5	591.8	4,137.4	4,134.8	2.60	1,593.125		
900.0	898.3	635.0	633.3	1.8	1.3	112.71	-4,080.1	584.9	4,148.2	4,145.2	3.00	1,383.898		
1,000.0	997.4	702.2	699.6	2.0	1.5	112.84	-4,086.2	575.9	4,160.5	4,157.1	3.45	1,205.864		
1,100.0	1,096.3	797.2	793.4	2.3	1.8	113.09	-4,095.1	562.8	4,174.0	4,170.0	4.01	1,040.640		
1,200.0	1,194.9	891.7	886.5	2.7	2.1	113.34	-4,103.9	549.8	4,188.4	4,183.8	4.60	911.255		
1,300.0	1,293.3	985.7	979.2	3.0	2.4	113.61	-4,112.6	536.8	4,203.6	4,198.4	5.20	807.670		
1,400.0	1,391.2	1,079.0	1,071.2	3.4	2.7	113.88	-4,121.3	524.0	4,219.8	4,214.0	5.84	723.120		
1,500.0	1,488.9	1,171.7	1,162.6	3.8	3.1	114.15	-4,129.9	511.2	4,236.9	4,230.4	6.49	652.966		
1,600.0	1,586.1	1,263.7	1,253.3	4.2	3.4	114.43	-4,138.5	498.5	4,255.0	4,247.9	7.16	593.939		
1,700.0	1,682.9	1,355.0	1,343.3	4.7	3.7	114.71	-4,147.0	486.0	4,274.1	4,266.3	7.86	543.683		
1,800.0	1,779.3	1,445.5	1,432.6	5.2	4.0	114.99	-4,155.4	473.5	4,294.3	4,285.7	8.58	500.453		
1,900.0	1,875.2	1,535.4	1,521.2	5.7	4.3	115.28	-4,163.8	461.1	4,315.5	4,306.2	9.32	462.936		
2,000.0	1,970.8	1,624.8	1,609.4	6.3	4.6	115.76	-4,172.1	448.8	4,337.4	4,327.3	10.05	431.399		
2,100.0	2,066.4	1,714.3	1,697.6	6.8	4.9	116.24	-4,180.5	436.4	4,359.6	4,348.9	10.78	404.243		
2,200.0	2,162.1	1,803.7	1,785.8	7.3	5.2	116.72	-4,188.8	424.1	4,382.2	4,370.7	11.51	380.651		
2,300.0	2,257.7	1,893.1	1,874.0	7.9	5.5	117.19	-4,197.1	411.8	4,405.2	4,392.9	12.24	359.987		
2,400.0	2,353.3	1,982.6	1,962.2	8.4	5.8	117.66	-4,205.4	399.4	4,428.4	4,415.5	12.96	341.759		
2,500.0	2,448.9	2,072.0	2,050.4	9.0	6.1	118.13	-4,213.8	387.1	4,452.0	4,438.4	13.67	325.575		
2,600.0	2,544.6	2,161.5	2,138.6	9.5	6.4	118.59	-4,222.1	374.8	4,476.0	4,461.6	14.39	311.120		
2,700.0	2,640.2	2,250.9	2,226.8	10.1	6.7	119.04	-4,230.4	362.5	4,500.2	4,485.1	15.09	298.143		
2,800.0	2,735.8	2,340.4	2,315.0	10.6	7.0	119.49	-4,238.8	350.1	4,524.8	4,509.0	15.80	286.435		
2,900.0	2,831.5	2,429.8	2,403.2	11.2	7.3	119.94	-4,247.1	337.8	4,549.6	4,533.1	16.49	275.826		
3,000.0	2,927.1	2,519.2	2,491.4	11.7	7.6	120.39	-4,255.4	325.5	4,574.8	4,557.6	17.19	266.176		
3,100.0	3,022.7	2,608.7	2,579.6	12.2	7.9	120.82	-4,263.8	313.2	4,600.2	4,582.4	17.87	257.364		
3,200.0	3,118.4	2,698.1	2,667.8	12.8	8.2	121.26	-4,272.1	300.8	4,626.0	4,607.4	18.56	249.291		
3,300.0	3,214.0	2,787.6	2,756.0	13.3	8.5	121.69	-4,280.4	288.5	4,652.0	4,632.8	19.23	241.873		
3,400.0	3,309.6	2,877.0	2,844.2	13.9	8.8	122.12	-4,288.7	276.2	4,678.3	4,658.4	19.90	235.036		
3,500.0	3,405.3	2,966.5	2,932.4	14.4	9.1	122.54	-4,297.1	263.8	4,704.9	4,684.4	20.57	228.719		
3,600.0	3,500.9	3,055.9	3,020.6	15.0	9.4	122.96	-4,305.4	251.5	4,731.8	4,710.6	21.23	222.868		
3,700.0	3,596.5	3,145.3	3,108.7	15.5	9.7	123.37	-4,313.7	239.2	4,758.9	4,737.1	21.89	217.436		
3,800.0	3,692.1	3,234.8	3,196.9	16.1	10.1	123.78	-4,322.1	226.9	4,786.3	4,763.8	22.54	212.383		
3,900.0	3,787.8	3,324.2	3,285.1	16.7	10.4	124.19	-4,330.4	214.5	4,814.0	4,790.8	23.18	207.673		
4,000.0	3,883.4	3,413.7	3,373.3	17.2	10.7	124.59	-4,338.7	202.2	4,841.9	4,818.1	23.82	203.274		
4,100.0	3,979.0	3,503.1	3,461.5	17.8	11.0	124.99	-4,347.0	189.9	4,870.1	4,845.6	24.45	199.159		
4,200.0	4,074.7	3,592.5	3,549.7	18.3	11.3	125.38	-4,355.4	177.6	4,898.5	4,873.4	25.08	195.304		
4,300.0	4,170.3	3,682.0	3,637.9	18.9	11.6	125.77	-4,363.7	165.2	4,927.2	4,901.5	25.70	191.686		
4,400.0	4,265.9	3,771.4	3,726.1	19.4	11.9	126.16	-4,372.0	152.9	4,956.1	4,929.7	26.32	188.287		
4,500.0	4,361.6	3,860.9	3,814.3	20.0	12.2	126.54	-4,380.4	140.6	4,985.2	4,958.3	26.93	185.089		
4,600.0	4,457.2	3,950.3	3,902.5	20.5	12.5	126.92	-4,388.7	128.2	5,014.5	4,987.0	27.54	182.076		
4,700.0	4,552.8	4,039.8	3,990.7	21.1	12.8	127.30	-4,397.0	115.9	5,044.1	5,016.0	28.14	179.234		
4,800.0	4,648.5	4,129.2	4,078.9	21.6	13.1	127.67	-4,405.3	103.6	5,073.9	5,045.2	28.74	176.550		
4,900.0	4,744.1	4,218.6	4,167.1	22.2	13.4	128.03	-4,413.7	91.3	5,104.0	5,074.6	29.33	174.013		
5,000.0	4,839.7	4,308.1	4,255.3	22.7	13.7	128.40	-4,422.0	78.9	5,134.2	5,104.3	29.92	171.614		

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 1G-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 1G-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: 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	4,935.3	4,397.5	4,343.5	23.3	14.0	128.76	-4,430.3	66.6	5,164.6	5,134.1	30.50	169.341	
5,204.0	5,034.8	4,490.5	4,435.2	23.9	14.3	129.13	-4,439.0	53.8	5,196.5	5,165.4	31.10	167.103	
5,300.0	5,126.8	5,202.6	5,143.8	24.4	15.7	131.49	-4,469.7	8.4	5,217.2	5,185.2	31.97	163.167	
5,400.0	5,223.2	5,299.0	5,240.2	24.9	15.8	131.85	-4,469.7	8.4	5,235.4	5,203.0	32.37	161.747	
5,500.0	5,320.0	5,395.8	5,337.0	25.3	15.9	132.18	-4,469.7	8.4	5,252.5	5,219.8	32.75	160.394	
5,600.0	5,417.2	5,493.0	5,434.2	25.8	16.0	132.48	-4,469.7	8.4	5,268.5	5,235.4	33.11	159.100	
5,700.0	5,514.8	5,590.6	5,531.8	26.2	16.1	132.76	-4,469.7	8.4	5,283.4	5,249.9	33.47	157.860	
5,800.0	5,612.8	5,688.6	5,629.8	26.5	16.2	133.02	-4,469.7	8.4	5,297.2	5,263.4	33.81	156.668	
5,900.0	5,711.1	5,786.9	5,728.1	26.9	16.3	133.26	-4,469.7	8.4	5,309.8	5,275.7	34.14	155.520	
6,000.0	5,809.7	5,885.5	5,826.7	27.2	16.4	133.47	-4,469.7	8.4	5,321.3	5,286.8	34.46	154.409	
6,100.0	5,908.6	5,984.4	5,925.6	27.5	16.5	133.66	-4,469.7	8.4	5,331.6	5,296.8	34.77	153.333	
6,200.0	6,007.7	6,083.5	6,024.7	27.8	16.6	133.83	-4,469.7	8.4	5,340.7	5,305.6	35.07	152.288	
6,300.0	6,107.1	6,182.9	6,124.1	28.0	16.8	133.97	-4,469.7	8.4	5,348.6	5,313.2	35.36	151.272	
6,400.0	6,206.6	6,282.4	6,223.6	28.2	16.9	134.10	-4,469.7	8.4	5,355.3	5,319.7	35.64	150.280	
6,500.0	6,306.3	6,382.1	6,323.3	28.4	17.0	134.20	-4,469.7	8.4	5,360.8	5,324.9	35.90	149.312	
6,600.0	6,406.1	6,481.9	6,423.1	28.6	17.1	134.28	-4,469.7	8.4	5,365.2	5,329.0	36.16	148.365	
6,700.0	6,506.0	6,581.8	6,523.0	28.7	17.2	134.33	-4,469.7	8.4	5,368.3	5,331.8	36.41	147.436	
6,800.0	6,606.0	6,681.8	6,623.0	28.8	17.3	134.37	-4,469.7	8.4	5,370.1	5,333.5	36.65	146.526	
6,904.0	6,710.0	6,785.8	6,727.0	28.9	17.5	-166.54	-4,469.7	8.4	5,370.8	5,333.9	36.89	145.592	
6,918.8	6,724.8	6,800.6	6,741.8	28.9	17.5	-166.54	-4,469.7	8.4	5,370.8	5,333.9	36.92	145.455	
6,950.0	6,756.0	6,831.8	6,773.0	28.9	17.5	13.47	-4,469.7	8.4	5,370.1	5,333.2	36.96	145.306	
7,000.0	6,805.8	6,881.6	6,822.8	28.9	17.6	13.55	-4,469.7	8.4	5,366.3	5,329.5	36.87	145.560	
7,050.0	6,855.2	6,931.0	6,872.2	28.8	17.6	13.70	-4,469.7	8.4	5,359.1	5,322.5	36.60	146.444	
7,100.0	6,904.0	6,979.8	6,921.0	28.8	17.7	13.94	-4,469.7	8.4	5,348.6	5,312.5	36.15	147.977	
7,150.0	6,952.0	7,027.8	6,969.0	28.7	17.7	14.25	-4,469.7	8.4	5,334.8	5,299.3	35.52	150.188	
7,200.0	6,998.8	7,074.6	7,015.8	28.6	17.8	14.66	-4,469.7	8.4	5,317.8	5,283.1	34.73	153.123	
7,250.0	7,044.3	7,120.1	7,061.3	28.5	17.9	15.17	-4,469.7	8.4	5,297.7	5,263.9	33.78	156.839	
7,300.0	7,088.2	7,164.0	7,105.2	28.3	17.9	15.80	-4,469.7	8.4	5,274.5	5,241.8	32.68	161.407	
7,350.0	7,130.4	7,206.2	7,147.4	28.2	18.0	16.56	-4,469.7	8.4	5,248.4	5,217.0	31.45	166.908	
7,400.0	7,170.6	7,246.4	7,187.6	28.0	18.0	17.49	-4,469.7	8.4	5,219.5	5,189.4	30.10	173.420	
7,450.0	7,208.6	7,284.4	7,225.6	27.8	18.1	18.60	-4,469.7	8.4	5,188.0	5,159.4	28.66	181.007	
7,500.0	7,244.3	7,320.1	7,261.3	27.7	18.1	19.95	-4,469.7	8.4	5,154.0	5,126.9	27.17	189.675	
7,550.0	7,277.4	7,353.2	7,294.4	27.5	18.1	21.59	-4,469.7	8.4	5,117.7	5,092.0	25.68	199.295	
7,600.0	7,307.8	7,383.6	7,324.8	27.3	18.2	23.61	-4,469.7	8.4	5,079.3	5,055.0	24.25	209.468	
7,650.0	7,335.4	7,411.2	7,352.4	27.2	18.2	26.10	-4,469.7	8.4	5,038.9	5,015.9	22.98	219.306	
7,700.0	7,360.0	7,435.8	7,377.0	27.0	18.2	29.22	-4,469.7	8.4	4,996.8	4,974.8	22.00	227.169	
7,750.0	7,381.6	7,457.4	7,398.6	26.9	18.3	33.17	-4,469.7	8.4	4,953.1	4,931.6	21.48	230.613	
7,800.0	7,399.9	7,475.7	7,416.9	26.8	18.3	38.25	-4,469.7	8.4	4,908.1	4,886.5	21.62	227.059	
7,850.0	7,414.9	7,490.7	7,431.9	26.7	18.3	44.85	-4,469.7	8.4	4,862.0	4,839.4	22.56	215.510	
7,900.0	7,426.6	7,502.4	7,443.6	26.6	18.3	53.41	-4,469.7	8.4	4,815.0	4,790.8	24.30	198.179	
7,950.0	7,434.9	7,510.7	7,451.9	26.5	18.3	64.31	-4,469.7	8.4	4,767.5	4,741.0	26.49	180.000	
8,000.0	7,439.7	7,515.5	7,456.7	26.5	18.3	77.44	-4,469.7	8.4	4,719.4	4,691.1	28.39	166.217	
8,043.8	7,441.0	7,516.8	7,458.0	26.5	18.3	90.00	-4,469.7	8.4	4,677.2	4,648.0	29.17	160.342	
8,100.0	7,441.0	7,516.8	7,458.0	26.6	18.3	90.00	-4,469.7	8.4	4,623.1	4,593.8	29.28	157.870	
8,200.0	7,441.0	7,516.8	7,458.0	26.7	18.3	90.00	-4,469.7	8.4	4,526.9	4,497.3	29.65	152.681	
8,300.0	7,441.0	7,516.8	7,458.0	27.0	18.3	90.00	-4,469.7	8.4	4,430.9	4,400.7	30.21	146.678	
8,400.0	7,441.0	7,516.8	7,458.0	27.4	18.3	90.00	-4,469.7	8.4	4,335.0	4,304.1	30.94	140.108	
8,500.0	7,441.0	7,516.8	7,458.0	27.8	18.3	90.00	-4,469.7	8.4	4,239.4	4,207.6	31.82	133.213	
8,600.0	7,441.0	7,516.8	7,458.0	28.4	18.3	90.00	-4,469.7	8.4	4,143.9	4,111.1	32.84	126.200	
8,700.0	7,441.0	7,516.8	7,458.0	29.1	18.3	90.00	-4,469.7	8.4	4,048.7	4,014.7	33.96	119.233	
8,800.0	7,441.0	7,516.8	7,458.0	29.9	18.3	90.00	-4,469.7	8.4	3,953.7	3,918.5	35.17	112.428	
8,900.0	7,441.0	7,516.8	7,458.0	30.8	18.3	90.00	-4,469.7	8.4	3,859.0	3,822.5	36.45	105.864	

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 1G-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 1G-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		
9,000.0	7,441.0	7,516.8	7,458.0	31.7	18.3	90.00	-4,469.7	8.4	3,764.5	3,726.7	37.80	99.590		
9,100.0	7,441.0	7,516.8	7,458.0	32.7	18.3	90.00	-4,469.7	8.4	3,670.3	3,631.1	39.20	93.632		
9,200.0	7,441.0	7,516.8	7,458.0	33.8	18.3	90.00	-4,469.7	8.4	3,576.4	3,535.8	40.64	87.997		
9,300.0	7,441.0	7,516.8	7,458.0	34.9	18.3	90.00	-4,469.7	8.4	3,482.9	3,440.8	42.12	82.686		
9,400.0	7,441.0	7,516.8	7,458.0	36.1	18.3	90.00	-4,469.7	8.4	3,389.8	3,346.1	43.63	77.688		
9,500.0	7,441.0	7,516.8	7,458.0	37.3	18.3	90.00	-4,469.7	8.4	3,297.0	3,251.8	45.17	72.991		
9,600.0	7,441.0	7,516.8	7,458.0	38.6	18.3	90.00	-4,469.7	8.4	3,204.7	3,158.0	46.73	68.580		
9,700.0	7,441.0	7,516.8	7,458.0	39.9	18.3	90.00	-4,469.7	8.4	3,112.9	3,064.6	48.31	64.438		
9,800.0	7,441.0	7,516.8	7,458.0	41.2	18.3	90.00	-4,469.7	8.4	3,021.5	2,971.6	49.90	60.548		
9,900.0	7,441.0	7,516.8	7,458.0	42.6	18.3	90.00	-4,469.7	8.4	2,930.8	2,879.3	51.51	56.893		
10,000.0	7,441.0	7,516.8	7,458.0	44.0	18.3	90.00	-4,469.7	8.4	2,840.6	2,787.5	53.14	53.460		
10,100.0	7,441.0	7,516.8	7,458.0	45.4	18.3	90.00	-4,469.7	8.4	2,751.2	2,696.4	54.77	50.232		
10,200.0	7,441.0	7,516.8	7,458.0	46.9	18.3	90.00	-4,469.7	8.4	2,662.5	2,606.1	56.41	47.196		
10,300.0	7,441.0	7,516.8	7,458.0	48.4	18.3	90.00	-4,469.7	8.4	2,574.6	2,516.5	58.07	44.340		
10,400.0	7,441.0	7,516.8	7,458.0	49.8	18.3	90.00	-4,469.7	8.4	2,487.7	2,427.9	59.73	41.651		
10,500.0	7,441.0	7,516.8	7,458.0	51.3	18.3	90.00	-4,469.7	8.4	2,401.7	2,340.3	61.39	39.120		
10,600.0	7,441.0	7,516.8	7,458.0	52.9	18.3	90.00	-4,469.7	8.4	2,316.9	2,253.8	63.07	36.738		
10,700.0	7,441.0	7,516.8	7,458.0	54.4	18.3	90.00	-4,469.7	8.4	2,233.3	2,168.6	64.74	34.495		
10,800.0	7,441.0	7,516.8	7,458.0	55.9	18.3	90.00	-4,469.7	8.4	2,151.2	2,084.8	66.43	32.384		
10,900.0	7,441.0	7,516.8	7,458.0	57.5	18.3	90.00	-4,469.7	8.4	2,070.6	2,002.5	68.12	30.398		
11,000.0	7,441.0	7,516.8	7,458.0	59.1	18.3	90.00	-4,469.7	8.4	1,991.8	1,922.0	69.81	28.532		
11,100.0	7,441.0	7,516.8	7,458.0	60.7	18.3	90.00	-4,469.7	8.4	1,914.9	1,843.4	71.51	26.780		
11,200.0	7,441.0	7,516.8	7,458.0	62.2	18.3	90.00	-4,469.7	8.4	1,840.3	1,767.1	73.20	25.139		
11,300.0	7,441.0	7,516.8	7,458.0	63.8	18.3	90.00	-4,469.7	8.4	1,768.2	1,693.3	74.91	23.605		
11,400.0	7,441.0	7,516.8	7,458.0	65.4	18.3	90.00	-4,469.7	8.4	1,698.9	1,622.3	76.61	22.175		
11,500.0	7,441.0	7,516.8	7,458.0	67.1	18.3	90.00	-4,469.7	8.4	1,632.8	1,554.5	78.32	20.848		
11,600.0	7,441.0	7,516.8	7,458.0	68.7	18.3	90.00	-4,469.7	8.4	1,570.3	1,490.3	80.03	19.621		
11,700.0	7,441.0	7,516.8	7,458.0	70.3	18.3	90.00	-4,469.7	8.4	1,511.9	1,430.1	81.74	18.495		
11,800.0	7,441.0	7,516.8	7,458.0	71.9	18.3	90.00	-4,469.7	8.4	1,457.9	1,374.4	83.46	17.468		
11,900.0	7,441.0	7,516.8	7,458.0	73.6	18.3	90.00	-4,469.7	8.4	1,409.0	1,323.8	85.18	16.542		
12,000.0	7,441.0	7,516.8	7,458.0	75.2	18.3	90.00	-4,469.7	8.4	1,365.7	1,278.8	86.90	15.716		
12,100.0	7,441.0	7,516.8	7,458.0	76.9	18.3	90.00	-4,469.7	8.4	1,328.5	1,239.9	88.62	14.992		
12,135.7	7,441.0	7,516.8	7,458.0	77.5	18.3	90.00	-4,469.7	8.4	1,316.8	1,227.6	89.23	14.758	CC, ES, SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 1G-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 1G-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	18.0	18.0	0.0	0.0	171.41	-4,050.8	612.2	4,096.8						
100.0	100.0	118.0	118.0	0.2	0.2	171.41	-4,050.8	612.2	4,096.8	4,096.4	0.34	N/A			
200.0	200.0	1,152.1	1,135.1	0.3	3.6	169.95	-3,918.9	694.5	4,084.3	4,080.4	3.87	1,056.310			
300.0	300.0	1,247.9	1,226.6	0.5	4.1	110.82	-3,894.9	709.5	4,062.2	4,058.5	3.68	1,104.599			
400.0	400.0	1,344.0	1,318.4	0.7	4.6	110.78	-3,870.7	724.6	4,040.7	4,036.5	4.22	957.215			
500.0	499.9	1,440.6	1,410.7	0.9	5.1	110.75	-3,846.4	739.8	4,020.0	4,015.2	4.78	841.605			
600.0	599.7	1,537.5	1,503.3	1.1	5.7	110.74	-3,822.0	755.0	3,999.9	3,994.6	5.35	748.288			
700.0	699.4	1,634.8	1,596.2	1.3	6.2	110.75	-3,797.6	770.2	3,980.5	3,974.5	5.93	671.245			
800.0	798.9	1,732.4	1,689.4	1.5	6.7	110.77	-3,773.1	785.5	3,961.7	3,955.1	6.53	606.479			
900.0	898.3	1,830.3	1,782.9	1.8	7.3	110.80	-3,748.5	800.9	3,943.5	3,936.3	7.15	551.240			
1,000.0	997.4	1,928.4	1,876.6	2.0	7.8	110.85	-3,723.8	816.3	3,926.0	3,918.2	7.80	503.571			
1,100.0	1,096.3	2,026.8	1,970.5	2.3	8.3	110.92	-3,699.1	831.7	3,909.0	3,900.6	8.46	462.037			
1,200.0	1,194.9	2,125.4	2,064.7	2.7	8.9	111.00	-3,674.3	847.2	3,892.8	3,883.6	9.15	425.564			
1,300.0	1,293.3	2,224.1	2,159.0	3.0	9.4	111.10	-3,649.5	862.6	3,877.1	3,867.2	9.86	393.321			
1,400.0	1,391.2	2,322.9	2,253.4	3.4	10.0	111.22	-3,624.7	878.1	3,862.0	3,851.4	10.59	364.658			
1,500.0	1,488.9	2,421.9	2,347.9	3.8	10.5	111.36	-3,599.8	893.7	3,847.6	3,836.3	11.35	339.056			
1,600.0	1,586.1	2,520.9	2,442.5	4.2	11.1	111.52	-3,574.9	909.2	3,833.8	3,821.7	12.13	316.091			
1,700.0	1,682.9	2,620.0	2,537.1	4.7	11.6	111.69	-3,550.0	924.7	3,820.7	3,807.7	12.93	295.415			
1,800.0	1,779.3	2,719.1	2,631.7	5.2	12.1	111.89	-3,525.1	940.3	3,808.2	3,794.4	13.76	276.738			
1,900.0	1,875.2	2,818.1	2,726.3	5.7	12.7	112.10	-3,500.2	955.8	3,796.3	3,781.7	14.61	259.816			
2,000.0	1,970.8	2,917.2	2,820.9	6.3	13.2	112.22	-3,475.3	971.4	3,784.8	3,769.3	15.47	244.646			
2,100.0	2,066.4	3,016.2	2,915.5	6.8	13.8	112.33	-3,450.4	986.9	3,773.3	3,757.0	16.33	231.053			
2,200.0	2,162.1	3,115.3	3,010.1	7.3	14.3	112.45	-3,425.5	1,002.4	3,761.8	3,744.6	17.19	218.814			
2,300.0	2,257.7	3,214.3	3,104.7	7.9	14.9	112.56	-3,400.6	1,018.0	3,750.3	3,732.3	18.05	207.743			
2,400.0	2,353.3	3,313.4	3,199.3	8.4	15.4	112.68	-3,375.8	1,033.5	3,738.9	3,720.0	18.91	197.685			
2,500.0	2,448.9	3,412.4	3,293.9	9.0	16.0	112.80	-3,350.9	1,049.0	3,727.4	3,707.7	19.77	188.511			
2,600.0	2,544.6	3,511.5	3,388.5	9.5	16.5	112.92	-3,326.0	1,064.6	3,716.0	3,695.4	20.63	180.113			
2,700.0	2,640.2	3,610.5	3,483.1	10.1	17.0	113.04	-3,301.1	1,080.1	3,704.6	3,683.1	21.49	172.397			
2,800.0	2,735.8	3,709.5	3,577.8	10.6	17.6	113.16	-3,276.2	1,095.6	3,693.2	3,670.9	22.34	165.285			
2,900.0	2,831.5	3,808.6	3,672.4	11.2	18.1	113.28	-3,251.3	1,111.2	3,681.8	3,658.6	23.20	158.710			
3,000.0	2,927.1	3,907.6	3,767.0	11.7	18.7	113.40	-3,226.4	1,126.7	3,670.5	3,646.4	24.05	152.614			
3,100.0	3,022.7	4,006.7	3,861.6	12.2	19.2	113.52	-3,201.5	1,142.3	3,659.1	3,634.2	24.90	146.948			
3,200.0	3,118.4	4,105.7	3,956.2	12.8	19.8	113.65	-3,176.6	1,157.8	3,647.8	3,622.1	25.75	141.668			
3,300.0	3,214.0	4,204.8	4,050.8	13.3	20.3	113.77	-3,151.7	1,173.3	3,636.5	3,609.9	26.60	136.736			
3,400.0	3,309.6	4,303.8	4,145.4	13.9	20.9	113.89	-3,126.8	1,188.9	3,625.2	3,597.8	27.44	132.120			
3,500.0	3,405.3	4,357.4	4,196.6	14.4	21.1	113.97	-3,113.7	1,197.1	3,614.5	3,586.4	28.11	128.577			
3,600.0	3,500.9	4,400.0	4,237.6	15.0	21.4	114.03	-3,103.8	1,203.2	3,605.2	3,576.5	28.75	125.412			
3,700.0	3,596.5	4,458.4	4,294.0	15.5	21.6	114.13	-3,091.1	1,211.2	3,597.2	3,567.8	29.41	122.331			
3,800.0	3,692.1	4,500.0	4,334.4	16.1	21.8	114.21	-3,082.7	1,216.4	3,590.6	3,560.6	30.02	119.617			
3,900.0	3,787.8	4,559.2	4,392.2	16.7	22.0	114.33	-3,071.5	1,223.4	3,585.4	3,554.8	30.65	116.977			
4,000.0	3,883.4	4,600.0	4,432.1	17.2	22.2	114.42	-3,064.4	1,227.8	3,581.6	3,550.4	31.24	114.646			
4,100.0	3,979.0	4,659.8	4,490.8	17.8	22.4	114.57	-3,054.9	1,233.8	3,579.2	3,547.3	31.85	112.392			
4,200.0	4,074.7	4,700.0	4,530.4	18.3	22.5	114.67	-3,049.0	1,237.4	3,578.2	3,545.8	32.41	110.388			
4,205.6	4,080.1	4,700.0	4,530.4	18.3	22.5	114.67	-3,049.0	1,237.4	3,578.2	3,545.7	32.44	110.291			
4,300.0	4,170.3	4,759.7	4,589.4	18.9	22.7	114.84	-3,041.3	1,242.3	3,578.6	3,545.6	32.99	108.474			
4,400.0	4,265.9	4,800.0	4,629.4	19.4	22.8	114.95	-3,036.6	1,245.2	3,580.4	3,546.9	33.54	106.753			
4,500.0	4,361.6	4,858.7	4,687.7	20.0	22.9	115.14	-3,030.7	1,248.9	3,583.7	3,549.6	34.09	105.138			
4,600.0	4,457.2	4,900.0	4,728.7	20.5	23.0	115.27	-3,027.1	1,251.1	3,588.4	3,553.8	34.62	103.665			
4,700.0	4,552.8	4,956.7	4,785.2	21.1	23.1	115.47	-3,023.0	1,253.7	3,594.5	3,559.4	35.13	102.313			
4,800.0	4,648.5	5,000.0	4,828.4	21.6	23.2	115.62	-3,020.5	1,255.2	3,602.1	3,566.5	35.64	101.062			
4,900.0	4,744.1	5,053.4	4,881.8	22.2	23.2	115.82	-3,018.2	1,256.6	3,611.2	3,575.0	36.13	99.938			
5,000.0	4,839.7	5,100.0	4,928.3	22.7	23.3	116.00	-3,016.9	1,257.5	3,621.7	3,585.1	36.62	98.892			

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 1G-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 1G-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		
5,100.0	4,935.3	5,148.7	4,977.0	23.3	23.3	116.20	-3,016.2	1,257.9	3,633.7	3,596.6	37.10	97.951		
5,204.0	5,034.8	5,224.5	5,052.8	23.9	23.4	116.51	-3,016.2	1,257.9	3,647.5	3,609.9	37.57	97.085		
5,300.0	5,126.8	5,316.5	5,144.8	24.4	23.4	117.00	-3,016.2	1,257.9	3,660.2	3,622.3	37.91	96.554		
5,400.0	5,223.2	5,412.9	5,241.2	24.9	23.5	117.47	-3,016.2	1,257.9	3,672.8	3,634.6	38.25	96.033		
5,500.0	5,320.0	5,509.7	5,338.0	25.3	23.6	117.92	-3,016.2	1,257.9	3,684.8	3,646.2	38.57	95.538		
5,600.0	5,417.2	5,606.9	5,435.2	25.8	23.6	118.33	-3,016.2	1,257.9	3,696.1	3,657.2	38.88	95.065		
5,700.0	5,514.8	5,704.5	5,532.8	26.2	23.7	118.71	-3,016.2	1,257.9	3,706.6	3,667.4	39.18	94.612		
5,800.0	5,612.8	5,802.5	5,630.8	26.5	23.8	119.07	-3,016.2	1,257.9	3,716.4	3,677.0	39.46	94.173		
5,900.0	5,711.1	5,900.8	5,729.1	26.9	23.8	119.39	-3,016.2	1,257.9	3,725.5	3,685.7	39.74	93.747		
6,000.0	5,809.7	5,999.4	5,827.7	27.2	23.9	119.68	-3,016.2	1,257.9	3,733.7	3,693.7	40.01	93.331		
6,100.0	5,908.6	6,098.3	5,926.6	27.5	24.0	119.94	-3,016.2	1,257.9	3,741.2	3,700.9	40.26	92.923		
6,200.0	6,007.7	6,197.4	6,025.7	27.8	24.1	120.17	-3,016.2	1,257.9	3,747.8	3,707.3	40.51	92.521		
6,300.0	6,107.1	6,296.8	6,125.1	28.0	24.1	120.37	-3,016.2	1,257.9	3,753.6	3,712.8	40.75	92.122		
6,400.0	6,206.6	6,396.3	6,224.6	28.2	24.2	120.54	-3,016.2	1,257.9	3,758.5	3,717.5	40.97	91.727		
6,500.0	6,306.3	6,496.0	6,324.3	28.4	24.3	120.68	-3,016.2	1,257.9	3,762.5	3,721.3	41.20	91.332		
6,600.0	6,406.1	6,595.8	6,424.1	28.6	24.4	120.78	-3,016.2	1,257.9	3,765.7	3,724.3	41.41	90.938		
6,700.0	6,506.0	6,695.7	6,524.0	28.7	24.5	120.86	-3,016.2	1,257.9	3,768.0	3,726.3	41.61	90.544		
6,800.0	6,606.0	6,795.7	6,624.0	28.8	24.6	120.91	-3,016.2	1,257.9	3,769.3	3,727.5	41.81	90.148		
6,904.0	6,710.0	6,899.7	6,728.0	28.9	24.6	-179.99	-3,016.2	1,257.9	3,769.8	3,727.8	42.01	89.733		
6,918.8	6,724.8	6,914.5	6,742.8	28.9	24.7	-179.99	-3,016.2	1,257.9	3,769.8	3,727.8	42.04	89.667		
6,950.0	6,756.0	6,945.6	6,774.0	28.9	24.7	0.00	-3,016.2	1,257.9	3,769.1	3,727.1	42.02	89.708		
7,000.0	6,805.8	6,995.5	6,823.8	28.9	24.7	0.00	-3,016.2	1,257.9	3,765.2	3,723.4	41.83	90.016		
7,050.0	6,855.2	7,044.9	6,873.2	28.8	24.8	0.00	-3,016.2	1,257.9	3,757.8	3,716.4	41.46	90.630		
7,100.0	6,904.0	7,093.7	6,922.0	28.8	24.8	0.00	-3,016.2	1,257.9	3,747.0	3,706.1	40.92	91.562		
7,150.0	6,952.0	7,141.7	6,970.0	28.7	24.9	0.00	-3,016.2	1,257.9	3,732.8	3,692.6	40.21	92.829		
7,200.0	6,998.8	7,188.5	7,016.8	28.6	24.9	0.00	-3,016.2	1,257.9	3,715.3	3,676.0	39.33	94.454		
7,250.0	7,044.3	7,234.0	7,062.3	28.5	24.9	0.00	-3,016.2	1,257.9	3,694.6	3,656.3	38.30	96.468		
7,300.0	7,088.2	7,277.9	7,106.2	28.3	25.0	0.00	-3,016.2	1,257.9	3,670.8	3,633.6	37.11	98.908		
7,350.0	7,130.4	7,320.1	7,148.4	28.2	25.0	0.00	-3,016.2	1,257.9	3,643.9	3,608.1	35.79	101.821		
7,400.0	7,170.6	7,360.3	7,188.6	28.0	25.0	0.00	-3,016.2	1,257.9	3,614.2	3,579.8	34.33	105.264		
7,450.0	7,208.6	7,398.3	7,226.6	27.8	25.1	0.00	-3,016.2	1,257.9	3,581.7	3,548.9	32.77	109.302		
7,500.0	7,244.3	7,433.9	7,262.3	27.7	25.1	0.00	-3,016.2	1,257.9	3,546.7	3,515.6	31.11	114.007		
7,550.0	7,277.4	7,467.1	7,295.4	27.5	25.1	0.00	-3,016.2	1,257.9	3,509.2	3,479.9	29.38	119.459		
7,600.0	7,307.8	7,497.5	7,325.8	27.3	25.2	0.00	-3,016.2	1,257.9	3,469.6	3,442.0	27.59	125.734		
7,650.0	7,335.4	7,525.1	7,353.4	27.2	25.2	0.00	-3,016.2	1,257.9	3,427.9	3,402.1	25.80	132.886		
7,700.0	7,360.0	7,549.7	7,378.0	27.0	25.2	0.00	-3,016.2	1,257.9	3,384.4	3,360.4	24.02	140.916		
7,750.0	7,381.6	7,571.3	7,399.6	26.9	25.2	0.00	-3,016.2	1,257.9	3,339.3	3,317.0	22.30	149.713		
7,800.0	7,399.9	7,589.6	7,417.9	26.8	25.3	0.01	-3,016.2	1,257.9	3,292.8	3,272.1	20.71	158.958		
7,850.0	7,414.9	7,604.6	7,432.9	26.7	25.3	0.01	-3,016.2	1,257.9	3,245.1	3,225.8	19.32	168.005		
7,900.0	7,426.6	7,616.3	7,444.6	26.6	25.3	0.01	-3,016.2	1,257.9	3,196.5	3,178.3	18.19	175.771		
7,950.0	7,434.9	7,624.5	7,452.9	26.5	25.3	0.02	-3,016.2	1,257.9	3,147.2	3,129.8	17.41	180.803		
8,000.0	7,439.7	7,629.3	7,457.7	26.5	25.3	0.03	-3,016.2	1,257.9	3,097.4	3,080.4	17.05	181.666		
8,043.8	7,441.0	7,630.7	7,459.0	26.5	25.3	90.00	-3,016.2	1,257.9	3,053.6	3,016.8	36.81	82.947		
8,100.0	7,441.0	7,630.7	7,459.0	26.6	25.3	90.00	-3,016.2	1,257.9	2,997.5	2,960.5	36.93	81.170		
8,200.0	7,441.0	7,630.7	7,459.0	26.7	25.3	90.00	-3,016.2	1,257.9	2,897.5	2,860.2	37.29	77.694		
8,300.0	7,441.0	7,630.7	7,459.0	27.0	25.3	90.00	-3,016.2	1,257.9	2,797.5	2,759.6	37.85	73.905		
8,400.0	7,441.0	7,630.7	7,459.0	27.4	25.3	90.00	-3,016.2	1,257.9	2,697.5	2,658.9	38.58	69.911		
8,500.0	7,441.0	7,630.7	7,459.0	27.8	25.3	90.00	-3,016.2	1,257.9	2,597.5	2,558.0	39.47	65.812		
8,600.0	7,441.0	7,630.7	7,459.0	28.4	25.3	90.00	-3,016.2	1,257.9	2,497.5	2,457.0	40.48	61.696		
8,700.0	7,441.0	7,630.7	7,459.0	29.1	25.3	90.00	-3,016.2	1,257.9	2,397.5	2,355.9	41.60	57.631		
8,800.0	7,441.0	7,630.7	7,459.0	29.9	25.3	90.00	-3,016.2	1,257.9	2,297.5	2,254.6	42.81	53.666		
8,900.0	7,441.0	7,630.7	7,459.0	30.8	25.3	90.00	-3,016.2	1,257.9	2,197.5	2,153.4	44.10	49.834		

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 1G-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 1G-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		
9,000.0	7,441.0	7,630.7	7,459.0	31.7	25.3	90.00	-3,016.2	1,257.9	2,097.5	2,052.0	45.44	46.155		
9,100.0	7,441.0	7,630.7	7,459.0	32.7	25.3	90.00	-3,016.2	1,257.9	1,997.5	1,950.6	46.84	42.641		
9,200.0	7,441.0	7,630.7	7,459.0	33.8	25.3	90.00	-3,016.2	1,257.9	1,897.5	1,849.2	48.29	39.296		
9,300.0	7,441.0	7,630.7	7,459.0	34.9	25.3	90.00	-3,016.2	1,257.9	1,797.5	1,747.7	49.77	36.118		
9,400.0	7,441.0	7,630.7	7,459.0	36.1	25.3	90.00	-3,016.2	1,257.9	1,697.5	1,646.2	51.28	33.104		
9,500.0	7,441.0	7,630.7	7,459.0	37.3	25.3	90.00	-3,016.2	1,257.9	1,597.5	1,544.6	52.81	30.247		
9,600.0	7,441.0	7,630.7	7,459.0	38.6	25.3	90.00	-3,016.2	1,257.9	1,497.5	1,443.1	54.37	27.540		
9,700.0	7,441.0	7,630.7	7,459.0	39.9	25.3	90.00	-3,016.2	1,257.9	1,397.5	1,341.5	55.95	24.976		
9,800.0	7,441.0	7,630.7	7,459.0	41.2	25.3	90.00	-3,016.2	1,257.9	1,297.5	1,239.9	57.55	22.546		
9,900.0	7,441.0	7,630.7	7,459.0	42.6	25.3	90.00	-3,016.2	1,257.9	1,197.5	1,138.3	59.16	20.242		
10,000.0	7,441.0	7,630.7	7,459.0	44.0	25.3	90.00	-3,016.2	1,257.9	1,097.5	1,036.7	60.78	18.056		
10,100.0	7,441.0	7,630.7	7,459.0	45.4	25.3	90.00	-3,016.2	1,257.9	997.5	935.0	62.41	15.981		
10,200.0	7,441.0	7,630.7	7,459.0	46.9	25.3	90.00	-3,016.2	1,257.9	897.5	833.4	64.06	14.010		
10,300.0	7,441.0	7,630.7	7,459.0	48.4	25.3	90.00	-3,016.2	1,257.9	797.5	731.7	65.71	12.136		
10,400.0	7,441.0	7,630.7	7,459.0	49.8	25.3	90.00	-3,016.2	1,257.9	697.5	630.1	67.37	10.353		
10,500.0	7,441.0	7,630.7	7,459.0	51.3	25.3	90.00	-3,016.2	1,257.9	597.5	528.4	69.04	8.654		
10,600.0	7,441.0	7,630.7	7,459.0	52.9	25.3	90.00	-3,016.2	1,257.9	497.5	426.7	70.71	7.035		
10,700.0	7,441.0	7,630.7	7,459.0	54.4	25.3	90.00	-3,016.2	1,257.9	397.5	325.1	72.39	5.491		
10,800.0	7,441.0	7,630.7	7,459.0	55.9	25.3	90.00	-3,016.2	1,257.9	297.5	223.4	74.07	4.016		
10,900.0	7,441.0	7,630.7	7,459.0	57.5	25.3	90.00	-3,016.2	1,257.9	197.5	121.7	75.76	2.606		
11,000.0	7,441.0	7,630.7	7,459.0	59.1	25.3	90.00	-3,016.2	1,257.9	97.5	20.0	77.45	1.258 Level 3		
11,079.7	7,441.0	7,630.7	7,459.0	60.3	25.3	90.00	-3,016.2	1,257.9	17.7	-61.1	78.81	0.225 Level 1		
11,100.0	7,441.0	7,630.7	7,459.0	60.7	25.3	90.00	-3,016.2	1,257.9	2.5	-76.6	79.15	0.032 Level 1, CC, ES, SF		
11,200.0	7,441.0	7,630.7	7,459.0	62.2	25.3	90.00	-3,016.2	1,257.9	102.5	21.7	80.85	1.268 Level 3		
11,300.0	7,441.0	7,630.7	7,459.0	63.8	25.3	90.00	-3,016.2	1,257.9	202.5	120.0	82.55	2.454		
11,400.0	7,441.0	7,630.7	7,459.0	65.4	25.3	90.00	-3,016.2	1,257.9	302.5	218.3	84.26	3.591		
11,500.0	7,441.0	7,630.7	7,459.0	67.1	25.3	90.00	-3,016.2	1,257.9	402.5	316.6	85.96	4.683		
11,600.0	7,441.0	7,630.7	7,459.0	68.7	25.3	90.00	-3,016.2	1,257.9	502.5	414.9	87.68	5.732		
11,700.0	7,441.0	7,630.7	7,459.0	70.3	25.3	90.00	-3,016.2	1,257.9	602.5	513.2	89.39	6.741		
11,800.0	7,441.0	7,630.7	7,459.0	71.9	25.3	90.00	-3,016.2	1,257.9	702.5	611.4	91.10	7.711		
11,900.0	7,441.0	7,630.7	7,459.0	73.6	25.3	90.00	-3,016.2	1,257.9	802.5	709.7	92.82	8.646		
12,000.0	7,441.0	7,630.7	7,459.0	75.2	25.3	90.00	-3,016.2	1,257.9	902.5	808.0	94.54	9.547		
12,100.0	7,441.0	7,630.7	7,459.0	76.9	25.3	90.00	-3,016.2	1,257.9	1,002.5	906.3	96.26	10.415		
12,135.7	7,441.0	7,630.7	7,459.0	77.5	25.3	90.00	-3,016.2	1,257.9	1,038.2	941.3	96.87	10.717		

Cathedral Energy Services

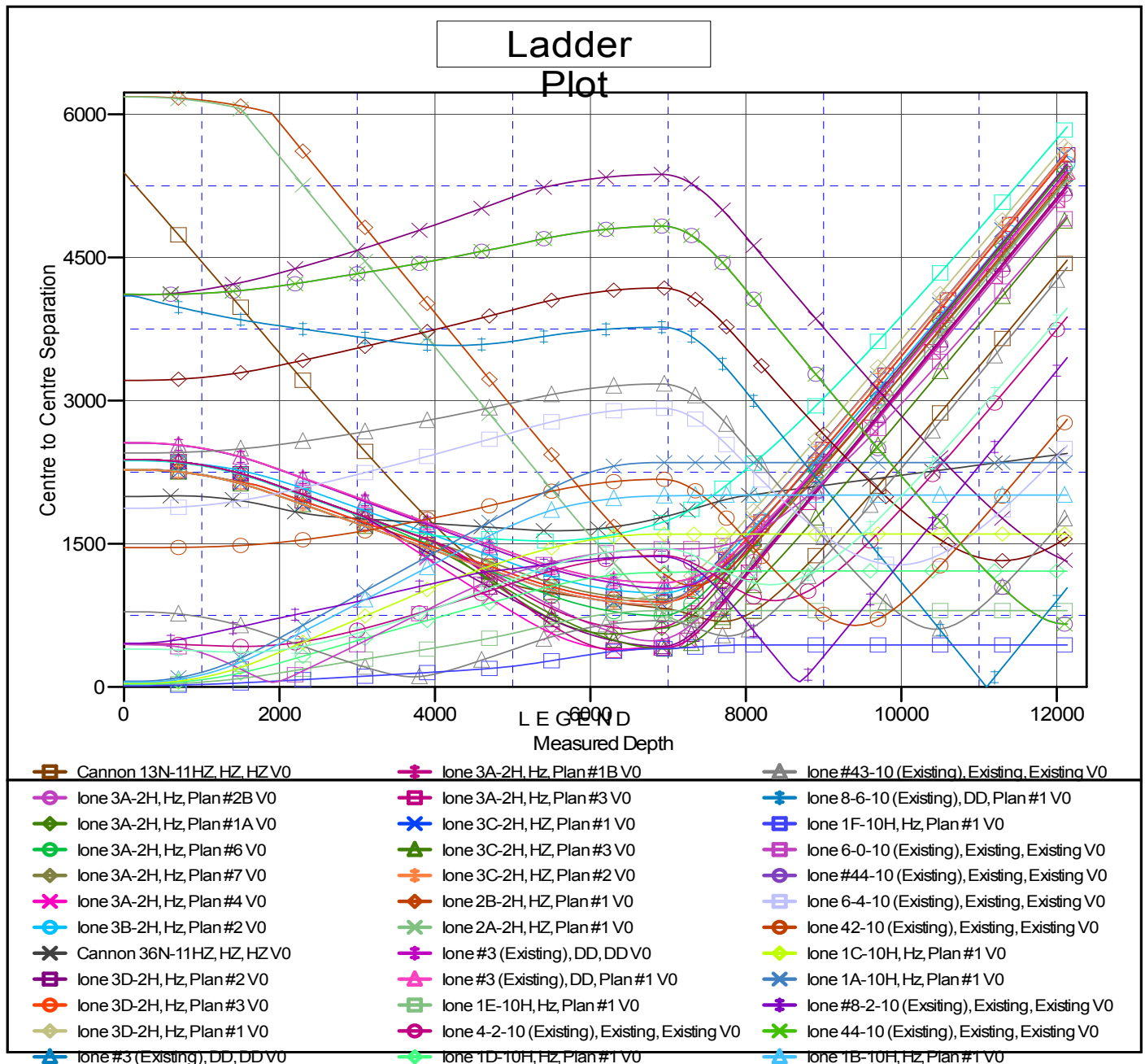
Anticollision Report

Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Reference Site: S10-T2N-R66W (lone)
Site Error: 0.0ft
Reference Well: lone 1G-10H
Well Error: 0.0ft
Reference Wellbore: Hz
Reference Design: Plan #1

Local Co-ordinate Reference: Well lone 1G-10H
TVD Reference: WELL @ 5012.0ft (Original Well Elev)
MD Reference: WELL @ 5012.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: USA EDM 5000 Multi Users DB
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 1G-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