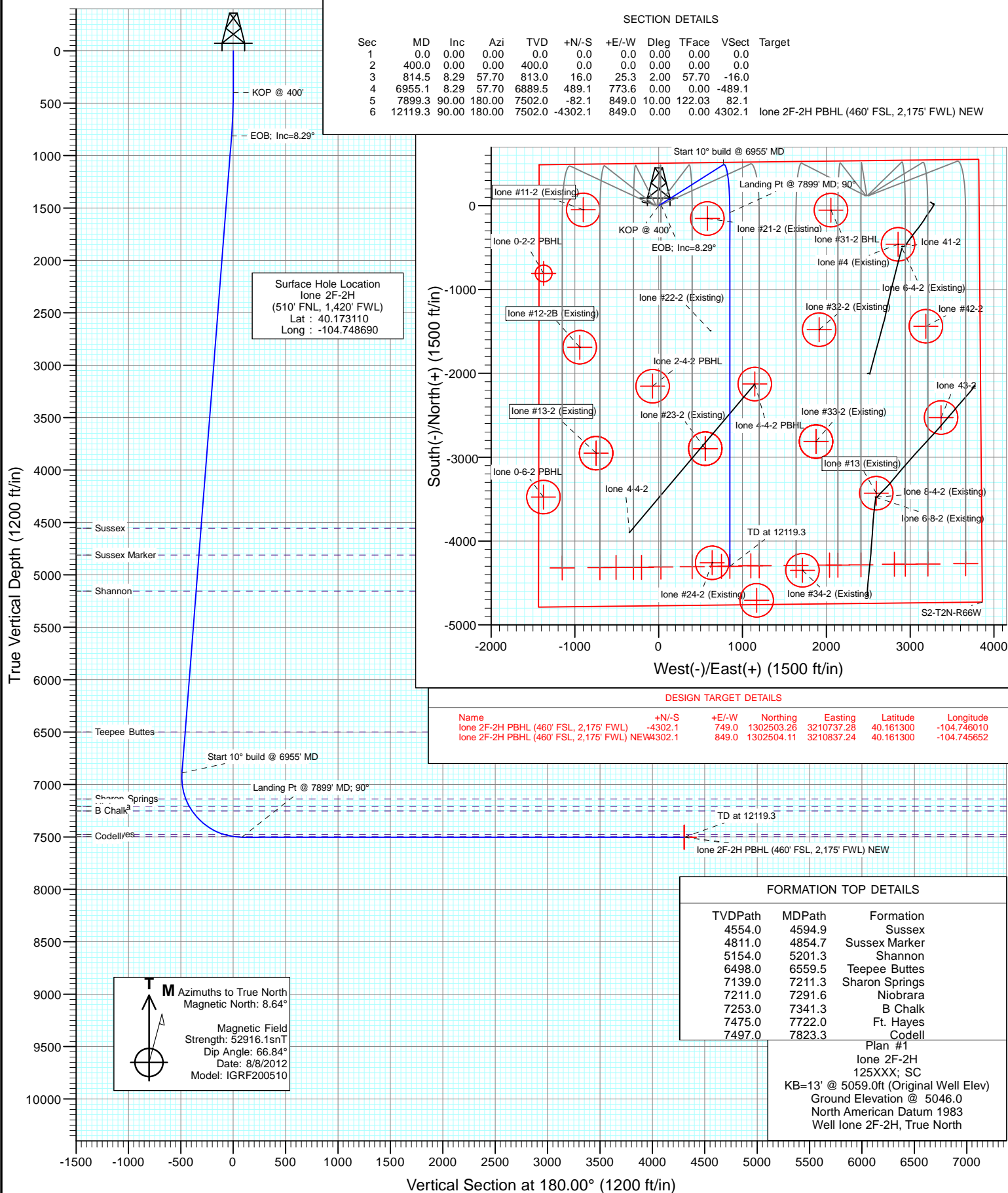




Project: DJ Wattenberg
Site: NWN S2-T2N-R66W (lone)
Well: lone 2F-2H
Wellbore: HZ
Design: Plan #1



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2F-2H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site:	NWNE S2-T2N-R66W (lone)	North Reference:	True
Well:	lone 2F-2H	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		NWNE S2-T2N-R66W (lone)			
Site Position:		Northing:	1,306,798.50 ft	Latitude:	40.173110
From:	Lat/Long	Easting:	3,209,901.52 ft	Longitude:	-104.748870
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.49 °

Well	lone 2F-2H					
Well Position	+N/-S	0.0 ft	Northing:	1,306,798.89 ft	Latitude:	40.173110
	+E/-W	0.0 ft	Easting:	3,209,951.82 ft	Longitude:	-104.748690
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,046.0 ft

Wellbore	HZ				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	8/8/2012	8.64	66.84	52,916

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	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
814.5	8.29	57.70	813.0	16.0	25.3	2.00	2.00	0.00	57.70	
6,955.1	8.29	57.70	6,889.5	489.1	773.6	0.00	0.00	0.00	0.00	
7,899.3	90.00	180.00	7,502.0	-82.1	849.0	10.00	8.65	12.95	122.03	
12,119.3	90.00	180.00	7,502.0	-4,302.1	849.0	0.00	0.00	0.00	0.00	lone 2F-2H PBHL (46

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2F-2H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site:	NWNE S2-T2N-R66W (lone)	North Reference:	True
Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	KOP @ 400'
500.0	2.00	57.70	500.0	0.9	1.5	-0.9	2.00	2.00	
600.0	4.00	57.70	599.8	3.7	5.9	-3.7	2.00	2.00	
700.0	6.00	57.70	699.5	8.4	13.3	-8.4	2.00	2.00	
800.0	8.00	57.70	798.7	14.9	23.6	-14.9	2.00	2.00	
814.5	8.29	57.70	813.0	16.0	25.3	-16.0	2.00	2.00	EOB; Inc=8.29°
900.0	8.29	57.70	897.7	22.6	35.7	-22.6	0.00	0.00	
1,000.0	8.29	57.70	996.6	30.3	47.9	-30.3	0.00	0.00	
1,100.0	8.29	57.70	1,095.6	38.0	60.1	-38.0	0.00	0.00	
1,200.0	8.29	57.70	1,194.5	45.7	72.3	-45.7	0.00	0.00	
1,300.0	8.29	57.70	1,293.5	53.4	84.5	-53.4	0.00	0.00	
1,400.0	8.29	57.70	1,392.4	61.1	96.6	-61.1	0.00	0.00	
1,500.0	8.29	57.70	1,491.4	68.8	108.8	-68.8	0.00	0.00	
1,600.0	8.29	57.70	1,590.3	76.5	121.0	-76.5	0.00	0.00	
1,700.0	8.29	57.70	1,689.3	84.2	133.2	-84.2	0.00	0.00	
1,800.0	8.29	57.70	1,788.3	91.9	145.4	-91.9	0.00	0.00	
1,900.0	8.29	57.70	1,887.2	99.6	157.6	-99.6	0.00	0.00	
2,000.0	8.29	57.70	1,986.2	107.3	169.8	-107.3	0.00	0.00	
2,100.0	8.29	57.70	2,085.1	115.0	181.9	-115.0	0.00	0.00	
2,200.0	8.29	57.70	2,184.1	122.7	194.1	-122.7	0.00	0.00	
2,300.0	8.29	57.70	2,283.0	130.5	206.3	-130.5	0.00	0.00	
2,400.0	8.29	57.70	2,382.0	138.2	218.5	-138.2	0.00	0.00	
2,500.0	8.29	57.70	2,480.9	145.9	230.7	-145.9	0.00	0.00	
2,600.0	8.29	57.70	2,579.9	153.6	242.9	-153.6	0.00	0.00	
2,700.0	8.29	57.70	2,678.9	161.3	255.1	-161.3	0.00	0.00	
2,800.0	8.29	57.70	2,777.8	169.0	267.2	-169.0	0.00	0.00	
2,900.0	8.29	57.70	2,876.8	176.7	279.4	-176.7	0.00	0.00	
3,000.0	8.29	57.70	2,975.7	184.4	291.6	-184.4	0.00	0.00	
3,100.0	8.29	57.70	3,074.7	192.1	303.8	-192.1	0.00	0.00	
3,200.0	8.29	57.70	3,173.6	199.8	316.0	-199.8	0.00	0.00	
3,300.0	8.29	57.70	3,272.6	207.5	328.2	-207.5	0.00	0.00	
3,400.0	8.29	57.70	3,371.5	215.2	340.4	-215.2	0.00	0.00	
3,500.0	8.29	57.70	3,470.5	222.9	352.5	-222.9	0.00	0.00	
3,600.0	8.29	57.70	3,569.5	230.6	364.7	-230.6	0.00	0.00	
3,700.0	8.29	57.70	3,668.4	238.3	376.9	-238.3	0.00	0.00	
3,800.0	8.29	57.70	3,767.4	246.0	389.1	-246.0	0.00	0.00	
3,900.0	8.29	57.70	3,866.3	253.7	401.3	-253.7	0.00	0.00	
4,000.0	8.29	57.70	3,965.3	261.4	413.5	-261.4	0.00	0.00	
4,100.0	8.29	57.70	4,064.2	269.1	425.7	-269.1	0.00	0.00	
4,200.0	8.29	57.70	4,163.2	276.8	437.8	-276.8	0.00	0.00	
4,300.0	8.29	57.70	4,262.1	284.6	450.0	-284.6	0.00	0.00	
4,400.0	8.29	57.70	4,361.1	292.3	462.2	-292.3	0.00	0.00	
4,500.0	8.29	57.70	4,460.1	300.0	474.4	-300.0	0.00	0.00	
4,594.9	8.29	57.70	4,554.0	307.3	486.0	-307.3	0.00	0.00	Sussex
4,600.0	8.29	57.70	4,559.0	307.7	486.6	-307.7	0.00	0.00	
4,700.0	8.29	57.70	4,658.0	315.4	498.8	-315.4	0.00	0.00	
4,800.0	8.29	57.70	4,756.9	323.1	511.0	-323.1	0.00	0.00	
4,854.7	8.29	57.70	4,811.0	327.3	517.6	-327.3	0.00	0.00	Sussex Marker

Cathedral Energy Services

Planning Report

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Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site:	NWNE S2-T2N-R66W (lone)	North Reference:	True
Well:	lone 2F-2H	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
4,900.0	8.29	57.70	4,855.9	330.8	523.1	-330.8	0.00	0.00	
5,000.0	8.29	57.70	4,954.8	338.5	535.3	-338.5	0.00	0.00	
5,100.0	8.29	57.70	5,053.8	346.2	547.5	-346.2	0.00	0.00	
5,200.0	8.29	57.70	5,152.7	353.9	559.7	-353.9	0.00	0.00	
5,201.3	8.29	57.70	5,154.0	354.0	559.9	-354.0	0.00	0.00	Shannon
5,300.0	8.29	57.70	5,251.7	361.6	571.9	-361.6	0.00	0.00	
5,400.0	8.29	57.70	5,350.6	369.3	584.1	-369.3	0.00	0.00	
5,500.0	8.29	57.70	5,449.6	377.0	596.3	-377.0	0.00	0.00	
5,600.0	8.29	57.70	5,548.6	384.7	608.4	-384.7	0.00	0.00	
5,700.0	8.29	57.70	5,647.5	392.4	620.6	-392.4	0.00	0.00	
5,800.0	8.29	57.70	5,746.5	400.1	632.8	-400.1	0.00	0.00	
5,900.0	8.29	57.70	5,845.4	407.8	645.0	-407.8	0.00	0.00	
6,000.0	8.29	57.70	5,944.4	415.5	657.2	-415.5	0.00	0.00	
6,100.0	8.29	57.70	6,043.3	423.2	669.4	-423.2	0.00	0.00	
6,200.0	8.29	57.70	6,142.3	430.9	681.6	-430.9	0.00	0.00	
6,300.0	8.29	57.70	6,241.2	438.7	693.7	-438.7	0.00	0.00	
6,400.0	8.29	57.70	6,340.2	446.4	705.9	-446.4	0.00	0.00	
6,500.0	8.29	57.70	6,439.2	454.1	718.1	-454.1	0.00	0.00	
6,559.5	8.29	57.70	6,498.0	458.6	725.4	-458.6	0.00	0.00	Teepee Buttes
6,600.0	8.29	57.70	6,538.1	461.8	730.3	-461.8	0.00	0.00	
6,700.0	8.29	57.70	6,637.1	469.5	742.5	-469.5	0.00	0.00	
6,800.0	8.29	57.70	6,736.0	477.2	754.7	-477.2	0.00	0.00	
6,900.0	8.29	57.70	6,835.0	484.9	766.9	-484.9	0.00	0.00	
6,955.1	8.29	57.70	6,889.5	489.1	773.6	-489.1	0.00	0.00	Start 10° build @ 6955' MD
7,000.0	7.02	90.56	6,934.0	490.8	779.1	-490.8	10.00	-2.83	
7,100.0	12.25	145.46	7,032.8	482.0	791.2	-482.0	10.00	5.23	
7,200.0	21.21	161.50	7,128.5	456.0	803.0	-456.0	10.00	8.96	
7,211.3	22.28	162.51	7,139.0	452.0	804.3	-452.0	10.00	9.44	Sharon Springs
7,291.6	29.99	167.68	7,211.0	417.9	813.2	-417.9	10.00	9.60	Niobrara
7,300.0	30.80	168.08	7,218.3	413.7	814.1	-413.7	10.00	9.70	
7,341.3	34.83	169.81	7,253.0	391.7	818.3	-391.7	10.00	9.74	B Chalk
7,400.0	40.58	171.73	7,299.4	356.3	824.0	-356.3	10.00	9.80	
7,500.0	50.43	174.16	7,369.4	285.6	832.7	-285.6	10.00	9.85	
7,600.0	60.32	175.97	7,426.2	203.8	839.7	-203.8	10.00	9.89	
7,700.0	70.22	177.46	7,467.9	113.2	844.8	-113.2	10.00	9.91	
7,722.0	72.41	177.76	7,475.0	92.3	845.7	-92.3	10.00	9.92	Ft. Hayes
7,800.0	80.14	178.77	7,493.5	16.7	848.0	-16.7	10.00	9.92	
7,823.3	82.45	179.07	7,497.0	-6.3	848.4	6.3	10.00	9.92	Codell
7,899.3	90.00	180.00	7,502.0	-82.1	849.0	82.1	10.00	9.92	Landing Pt @ 7899' MD; 90°
7,900.0	90.00	180.00	7,502.0	-82.8	849.0	82.8	0.00	0.00	
8,000.0	90.00	180.00	7,502.0	-182.8	849.0	182.8	0.00	0.00	
8,100.0	90.00	180.00	7,502.0	-282.8	849.0	282.8	0.00	0.00	
8,200.0	90.00	180.00	7,502.0	-382.8	849.0	382.8	0.00	0.00	
8,300.0	90.00	180.00	7,502.0	-482.8	849.0	482.8	0.00	0.00	
8,400.0	90.00	180.00	7,502.0	-582.8	849.0	582.8	0.00	0.00	
8,500.0	90.00	180.00	7,502.0	-682.8	849.0	682.8	0.00	0.00	
8,600.0	90.00	180.00	7,502.0	-782.8	849.0	782.8	0.00	0.00	
8,700.0	90.00	180.00	7,502.0	-882.8	849.0	882.8	0.00	0.00	
8,800.0	90.00	180.00	7,502.0	-982.8	849.0	982.8	0.00	0.00	
8,900.0	90.00	180.00	7,502.0	-1,082.8	849.0	1,082.8	0.00	0.00	
9,000.0	90.00	180.00	7,502.0	-1,182.8	849.0	1,182.8	0.00	0.00	
9,100.0	90.00	180.00	7,502.0	-1,282.8	849.0	1,282.8	0.00	0.00	

Cathedral Energy Services

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Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site:	NWNE S2-T2N-R66W (lone)	North Reference:	True
Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	180.00	7,502.0	-1,382.8	849.0	1,382.8	0.00	0.00	
9,300.0	90.00	180.00	7,502.0	-1,482.8	849.0	1,482.8	0.00	0.00	
9,400.0	90.00	180.00	7,502.0	-1,582.8	849.0	1,582.8	0.00	0.00	
9,500.0	90.00	180.00	7,502.0	-1,682.8	849.0	1,682.8	0.00	0.00	
9,600.0	90.00	180.00	7,502.0	-1,782.8	849.0	1,782.8	0.00	0.00	
9,700.0	90.00	180.00	7,502.0	-1,882.8	849.0	1,882.8	0.00	0.00	
9,800.0	90.00	180.00	7,502.0	-1,982.8	849.0	1,982.8	0.00	0.00	
9,900.0	90.00	180.00	7,502.0	-2,082.8	849.0	2,082.8	0.00	0.00	
10,000.0	90.00	180.00	7,502.0	-2,182.8	849.0	2,182.8	0.00	0.00	
10,100.0	90.00	180.00	7,502.0	-2,282.8	849.0	2,282.8	0.00	0.00	
10,200.0	90.00	180.00	7,502.0	-2,382.8	849.0	2,382.8	0.00	0.00	
10,300.0	90.00	180.00	7,502.0	-2,482.8	849.0	2,482.8	0.00	0.00	
10,400.0	90.00	180.00	7,502.0	-2,582.8	849.0	2,582.8	0.00	0.00	
10,500.0	90.00	180.00	7,502.0	-2,682.8	849.0	2,682.8	0.00	0.00	
10,600.0	90.00	180.00	7,502.0	-2,782.8	849.0	2,782.8	0.00	0.00	
10,700.0	90.00	180.00	7,502.0	-2,882.8	849.0	2,882.8	0.00	0.00	
10,800.0	90.00	180.00	7,502.0	-2,982.8	849.0	2,982.8	0.00	0.00	
10,900.0	90.00	180.00	7,502.0	-3,082.8	849.0	3,082.8	0.00	0.00	
11,000.0	90.00	180.00	7,502.0	-3,182.8	849.0	3,182.8	0.00	0.00	
11,100.0	90.00	180.00	7,502.0	-3,282.8	849.0	3,282.8	0.00	0.00	
11,200.0	90.00	180.00	7,502.0	-3,382.8	849.0	3,382.8	0.00	0.00	
11,300.0	90.00	180.00	7,502.0	-3,482.8	849.0	3,482.8	0.00	0.00	
11,400.0	90.00	180.00	7,502.0	-3,582.8	849.0	3,582.8	0.00	0.00	
11,500.0	90.00	180.00	7,502.0	-3,682.8	849.0	3,682.8	0.00	0.00	
11,600.0	90.00	180.00	7,502.0	-3,782.8	849.0	3,782.8	0.00	0.00	
11,700.0	90.00	180.00	7,502.0	-3,882.8	849.0	3,882.8	0.00	0.00	
11,800.0	90.00	180.00	7,502.0	-3,982.8	849.0	3,982.8	0.00	0.00	
11,900.0	90.00	180.00	7,502.0	-4,082.8	849.0	4,082.8	0.00	0.00	
12,000.0	90.00	180.00	7,502.0	-4,182.8	849.0	4,182.8	0.00	0.00	
12,100.0	90.00	180.00	7,502.0	-4,282.8	849.0	4,282.8	0.00	0.00	
12,119.3	90.00	180.00	7,502.0	-4,302.1	849.0	4,302.1	0.00	0.00	TD at 12119.3 - lone 2F-2H PBHL (460' FSL, 2,

Targets										
Target Name										
- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)		Latitude	Longitude
- Shape										
lone 2F-2H PBHL (460' I	0.00	0.00	7,502.0	-4,302.1	749.0	1,302,503.26	3,210,737.28		40.161300	-104.746010
- plan misses target center by 100.0ft at 12119.3ft MD (7502.0 TVD, -4302.1 N, 849.0 E)										
- Point										
lone 2F-2H PBHL (460' I	0.00	0.00	7,502.0	-4,302.1	849.0	1,302,504.11	3,210,837.24		40.161300	-104.745652
- plan hits target center										
- Point										

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2F-2H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site:	NWNE S2-T2N-R66W (lone)	North Reference:	True
Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,594.9	4,554.0	Sussex				
4,854.7	4,811.0	Sussex Marker				
5,201.3	5,154.0	Shannon				
6,559.5	6,498.0	Teepee Buttes				
7,211.3	7,139.0	Sharon Springs				
7,291.6	7,211.0	Niobrara				
7,341.3	7,253.0	B Chalk				
7,722.0	7,475.0	Ft. Hayes				
7,823.3	7,497.0	Codell				

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
400.0	400.0	0.0	0.0	KOP @ 400'
814.5	813.0	16.0	25.3	EOB; Inc=8.29°
6,955.1	6,889.5	489.1	773.6	Start 10° build @ 6955' MD
7,899.3	7,502.0	-82.1	849.0	Landing Pt @ 7899' MD; 90°
12,119.3	7,502.0	-4,302.1	849.0	TD at 12119.3

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNE S2-T2N-R66W (lone)

lone 2F-2H

HZ

Plan #1

Anticollision Report

15 August, 2012

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (Ione)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ione 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 500.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	8/15/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,119.3	Plan #1 (HZ)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
NWNE S2-T2N-R66W (lone)						
lone #11-2 (Existing) - DD - Plan #1						Out of range
lone #12-2B (Existing) - DD - Plan #1						Out of range
lone #13 (Existing) - HZ - Plan #1						Out of range
lone #13-2 (Existing) - DD - Plan #1						Out of range
lone #21-2 (Existing) - DD - Plan #1	7,970.5	7,503.0	268.6	241.3	9.843	CC, ES, SF
lone #22-2 (Existing) - DD - Plan #1	9,307.4	7,521.0	234.5	190.4	5.319	CC, ES, SF
lone #23-2 (Existing) - DD - Plan #1	10,714.7	7,517.0	294.0	226.6	4.364	CC, ES, SF
lone #24-2 (Existing) - DD - Plan #1	12,076.0	7,535.0	211.2	120.4	2.327	CC, ES, SF
lone #3 (Existing) - DD - DD	0.0	0.0	50.3			
lone #3 (Existing) - DD - DD	700.0	697.0	68.3	66.5	37.832	SF
lone #3 (Existing) - DD - Plan #1	400.0	398.0	50.3	49.0	37.428	CC, ES
lone #3 (Existing) - DD - Plan #1	700.0	697.5	64.1	61.7	26.778	SF
lone #31-2 (Existing) - DD - Plan #1						Out of range
lone #32-2 (Existing) - DD - Plan #1						Out of range
lone #33-2 (Existing) - DD - Plan #1						Out of range
lone #34-2 (Existing) - DD - Plan #1						Out of range
lone #4 (Existing) - DD - Plan #1						Out of range
lone #42-2 - DD - Plan #1						Out of range
lone 1A-2H - HZ - Plan #1						Out of range
lone 1B-2H - HZ - Plan #1						Out of range
lone 1C-2H - HZ - Plan #1						Out of range
lone 1D-2H - HZ - Plan #1						Out of range
lone 1E-2H - HZ - Plan #1						Out of range
lone 1F-2H - HZ - Plan #1						Out of range
lone 2A-2H - HZ - Plan #1	200.0	200.0	50.3	49.6	77.058	CC, ES
lone 2A-2H - HZ - Plan #1	500.0	494.2	66.0	64.3	38.833	SF
lone 2B-2H - HZ - Plan #1	400.0	400.0	41.9	40.6	31.029	CC, ES
lone 2B-2H - HZ - Plan #1	600.0	597.1	53.2	51.2	25.930	SF
lone 2C-2H - HZ - Plan #1	400.0	400.0	30.7	29.4	22.755	CC, ES
lone 2C-2H - HZ - Plan #1	600.0	599.8	36.8	34.8	17.966	SF
lone 2D-2H - HZ - Plan #1	400.0	400.0	19.6	18.2	14.480	CC, ES
lone 2D-2H - HZ - Plan #1	500.0	500.0	21.1	19.4	12.387	SF
lone 2E-2H - HZ - Plan #1	400.0	400.0	11.2	9.8	8.274	CC, ES
lone 2E-2H - HZ - Plan #1	500.0	500.0	12.7	11.0	7.463	SF
lone 2G-2H - HZ - Plan #1	200.0	200.0	8.4	7.7	12.843	CC, ES
lone 2G-2H - HZ - Plan #1	12,119.3	11,943.3	416.7	283.6	3.131	SF
lone 41-2 - DD - DD						Out of range
lone 43-2 - Wellbore #1 - Wellbore #1						Out of range
lone 4-4-2 - Wellbore #1 - Plan #1	9,944.5	7,967.7	296.8	220.7	3.904	CC, ES, SF
lone 6-4-2 (Existing) - Existing - Existing						Out of range
lone 6-8-2 (Existing) - Existing - Existing						Out of range
lone 8-4-2 (Existing) - Existing - Existing						Out of range

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 #21-2 (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
1,800.0	1,788.3	1,789.3	1,789.3	4.4	3.1	61.97	-153.3	580.4	499.4	492.1	7.27	68.716	
1,900.0	1,887.2	1,888.2	1,888.2	4.7	3.3	63.44	-153.3	580.4	492.7	485.0	7.75	63.603	
2,000.0	1,986.2	1,987.2	1,987.2	5.0	3.4	64.94	-153.3	580.4	486.4	478.2	8.23	59.094	
2,100.0	2,085.1	2,086.1	2,086.1	5.3	3.6	66.49	-153.3	580.4	480.4	471.7	8.72	55.098	
2,200.0	2,184.1	2,185.1	2,185.1	5.6	3.8	68.07	-153.3	580.4	474.8	465.6	9.21	51.545	
2,300.0	2,283.0	2,284.0	2,284.0	5.9	4.0	69.69	-153.3	580.4	469.6	459.8	9.71	48.375	
2,400.0	2,382.0	2,383.0	2,383.0	6.3	4.1	71.34	-153.3	580.4	464.7	454.5	10.20	45.538	
2,500.0	2,480.9	2,481.9	2,481.9	6.6	4.3	73.02	-153.3	580.4	460.2	449.5	10.70	42.994	
2,600.0	2,579.9	2,580.9	2,580.9	6.9	4.5	74.74	-153.3	580.4	456.2	445.0	11.21	40.709	
2,700.0	2,678.9	2,679.9	2,679.9	7.2	4.7	76.48	-153.3	580.4	452.6	440.9	11.71	38.654	
2,800.0	2,777.8	2,778.8	2,778.8	7.5	4.8	78.25	-153.3	580.4	449.4	437.2	12.21	36.804	
2,900.0	2,876.8	2,877.8	2,877.8	7.8	5.0	80.04	-153.3	580.4	446.7	433.9	12.71	35.137	
3,000.0	2,975.7	2,976.7	2,976.7	8.1	5.2	81.86	-153.3	580.4	444.4	431.2	13.21	33.635	
3,100.0	3,074.7	3,075.7	3,075.7	8.4	5.3	83.69	-153.3	580.4	442.5	428.8	13.71	32.282	
3,200.0	3,173.6	3,174.6	3,174.6	8.7	5.5	85.53	-153.3	580.4	441.2	427.0	14.20	31.063	
3,300.0	3,272.6	3,273.6	3,273.6	9.0	5.7	87.38	-153.3	580.4	440.3	425.6	14.69	29.967	
3,400.0	3,371.5	3,372.5	3,372.5	9.3	5.9	89.24	-153.3	580.4	439.8	424.7	15.18	28.982	
3,441.1	3,412.2	3,413.2	3,413.2	9.4	5.9	90.00	-153.3	580.4	439.8	424.4	15.37	28.607	
3,500.0	3,470.5	3,471.5	3,471.5	9.6	6.0	91.09	-153.3	580.4	439.9	424.2	15.65	28.098	
3,600.0	3,569.5	3,570.5	3,570.5	9.9	6.2	92.95	-153.3	580.4	440.4	424.3	16.13	27.307	
3,700.0	3,668.4	3,669.4	3,669.4	10.2	6.4	94.80	-153.3	580.4	441.4	424.8	16.59	26.600	
3,800.0	3,767.4	3,768.4	3,768.4	10.5	6.6	96.64	-153.3	580.4	442.8	425.8	17.05	25.970	
3,900.0	3,866.3	3,867.3	3,867.3	10.9	6.7	98.47	-153.3	580.4	444.7	427.2	17.50	25.411	
4,000.0	3,965.3	3,966.3	3,966.3	11.2	6.9	100.28	-153.3	580.4	447.1	429.2	17.94	24.918	
4,100.0	4,064.2	4,065.2	4,065.2	11.5	7.1	102.06	-153.3	580.4	449.9	431.6	18.38	24.483	
4,200.0	4,163.2	4,164.2	4,164.2	11.8	7.2	103.83	-153.3	580.4	453.2	434.4	18.80	24.103	
4,300.0	4,262.1	4,263.1	4,263.1	12.1	7.4	105.57	-153.3	580.4	456.9	437.7	19.22	23.773	
4,400.0	4,361.1	4,362.1	4,362.1	12.4	7.6	107.28	-153.3	580.4	461.0	441.4	19.63	23.489	
4,500.0	4,460.1	4,461.1	4,461.1	12.7	7.8	108.96	-153.3	580.4	465.5	445.5	20.03	23.246	
4,600.0	4,559.0	4,560.0	4,560.0	13.0	7.9	110.60	-153.3	580.4	470.5	450.0	20.42	23.042	
4,700.0	4,658.0	4,659.0	4,659.0	13.3	8.1	112.21	-153.3	580.4	475.8	455.0	20.80	22.873	
4,800.0	4,756.9	4,757.9	4,757.9	13.6	8.3	113.79	-153.3	580.4	481.5	460.3	21.18	22.736	
4,900.0	4,855.9	4,856.9	4,856.9	13.9	8.5	115.33	-153.3	580.4	487.5	466.0	21.54	22.628	
5,000.0	4,954.8	4,955.8	4,955.8	14.2	8.6	116.83	-153.3	580.4	493.9	472.0	21.90	22.547	
7,600.0	7,426.2	7,427.2	7,427.2	20.2	12.9	59.46	-153.3	580.4	441.3	417.2	24.13	18.288	
7,700.0	7,467.9	7,468.9	7,468.9	20.1	13.0	72.67	-153.3	580.4	375.4	350.0	25.45	14.754	
7,800.0	7,493.5	7,494.5	7,494.5	20.2	13.1	84.08	-153.3	580.4	317.0	290.6	26.44	11.988	
7,900.0	7,502.0	7,503.0	7,503.0	20.4	13.1	90.00	-153.3	580.4	277.7	250.8	26.93	10.312	
7,970.5	7,502.0	7,503.0	7,503.0	20.6	13.1	90.00	-153.3	580.4	268.6	241.3	27.29	9.843 CC, ES, SF	
8,000.0	7,502.0	7,503.0	7,503.0	20.8	13.1	90.00	-153.3	580.4	270.2	242.8	27.44	9.849	
8,100.0	7,502.0	7,503.0	7,503.0	21.2	13.1	90.00	-153.3	580.4	298.2	270.0	28.13	10.599	
8,200.0	7,502.0	7,503.0	7,503.0	21.9	13.1	90.00	-153.3	580.4	353.3	324.3	28.99	12.186	
8,300.0	7,502.0	7,503.0	7,503.0	22.6	13.1	90.00	-153.3	580.4	425.1	395.1	29.99	14.175	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 #22-2 (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	
8,900.0	7,502.0	7,521.0	7,521.0	28.9	13.1	90.00	-1,490.3	614.5	470.1	432.3	37.84	12.423	
9,000.0	7,502.0	7,521.0	7,521.0	30.2	13.1	90.00	-1,490.3	614.5	386.7	347.3	39.33	9.831	
9,100.0	7,502.0	7,521.0	7,521.0	31.5	13.1	90.00	-1,490.3	614.5	313.1	272.2	40.85	7.664	
9,200.0	7,502.0	7,521.0	7,521.0	32.9	13.1	90.00	-1,490.3	614.5	257.9	215.5	42.39	6.084	
9,300.0	7,502.0	7,521.0	7,521.0	34.3	13.1	90.00	-1,490.3	614.5	234.6	190.6	43.96	5.336	
9,307.4	7,502.0	7,521.0	7,521.0	34.4	13.1	90.00	-1,490.3	614.5	234.5	190.4	44.08	5.319	CC, ES, SF
9,400.0	7,502.0	7,521.0	7,521.0	35.7	13.1	90.00	-1,490.3	614.5	252.1	206.5	45.55	5.534	
9,500.0	7,502.0	7,521.0	7,521.0	37.2	13.1	90.00	-1,490.3	614.5	303.4	256.2	47.15	6.435	
9,600.0	7,502.0	7,521.0	7,521.0	38.7	13.1	90.00	-1,490.3	614.5	374.9	326.1	48.77	7.688	
9,700.0	7,502.0	7,521.0	7,521.0	40.2	13.1	90.00	-1,490.3	614.5	457.2	406.8	50.40	9.073	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 #23-2 (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	
10,400.0	7,502.0	7,517.0	7,517.0	51.2	13.1	90.00	-2,897.5	555.0	430.6	368.6	62.04	6.941	
10,500.0	7,502.0	7,517.0	7,517.0	52.8	13.1	90.00	-2,897.5	555.0	364.0	300.3	63.73	5.712	
10,600.0	7,502.0	7,517.0	7,517.0	54.4	13.1	90.00	-2,897.5	555.0	315.5	250.1	65.42	4.823	
10,700.0	7,502.0	7,517.0	7,517.0	56.0	13.1	90.00	-2,897.5	555.0	294.3	227.2	67.12	4.385	
10,714.7	7,502.0	7,517.0	7,517.0	56.3	13.1	90.00	-2,897.5	555.0	294.0	226.6	67.37	4.364	CC, ES, SF
10,800.0	7,502.0	7,517.0	7,517.0	57.7	13.1	90.00	-2,897.5	555.0	306.1	237.3	68.82	4.448	
10,900.0	7,502.0	7,517.0	7,517.0	59.3	13.1	90.00	-2,897.5	555.0	347.5	277.0	70.52	4.928	
11,000.0	7,502.0	7,517.0	7,517.0	61.0	13.1	90.00	-2,897.5	555.0	409.7	337.4	72.23	5.672	
11,100.0	7,502.0	7,517.0	7,517.0	62.6	13.1	90.00	-2,897.5	555.0	484.7	410.7	73.94	6.555	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (Ione)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ione 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 (Ione) - Ione #24-2 (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		
11,700.0	7,502.0	7,535.0	7,535.0	72.7	13.1	90.00	-4,258.8	637.8	431.2	347.0	84.27	5.117		
11,800.0	7,502.0	7,535.0	7,535.0	74.4	13.1	90.00	-4,258.8	637.8	347.5	261.5	85.99	4.041		
11,900.0	7,502.0	7,535.0	7,535.0	76.1	13.1	90.00	-4,258.8	637.8	274.9	187.2	87.72	3.134		
12,000.0	7,502.0	7,535.0	7,535.0	77.8	13.1	90.00	-4,258.8	637.8	224.5	135.0	89.44	2.509		
12,076.0	7,502.0	7,535.0	7,535.0	79.0	13.1	90.00	-4,258.8	637.8	211.2	120.4	90.75	2.327 CC, ES, SF		
12,100.0	7,502.0	7,535.0	7,535.0	79.5	13.1	90.00	-4,258.8	637.8	212.6	121.4	91.17	2.332		
12,119.3	7,502.0	7,535.0	7,535.0	79.8	13.1	90.00	-4,258.8	637.8	215.6	124.1	91.50	2.356		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-50.3	50.3					
100.0	100.0	97.2	97.2	0.2	0.1	-89.77	0.2	-51.0	51.0	50.8	0.22	227.046		
200.0	200.0	197.6	197.6	0.3	0.2	-89.16	0.8	-52.2	52.2	51.7	0.49	107.126		
300.0	300.0	297.9	297.9	0.5	0.2	-88.35	1.5	-52.6	52.6	51.9	0.75	70.292		
400.0	400.0	397.7	397.7	0.7	0.3	-88.15	1.7	-53.1	53.1	52.1	1.01	52.529		
500.0	500.0	497.6	497.6	0.9	0.4	-146.71	1.9	-53.7	55.2	53.9	1.27	43.389		
600.0	599.8	597.6	597.6	1.0	0.5	-148.60	2.7	-54.3	60.2	58.7	1.54	39.146		
700.0	699.5	697.0	696.9	1.3	0.6	-151.68	3.5	-54.9	68.3	66.5	1.81	37.832 SF		
800.0	798.7	796.3	796.2	1.5	0.7	-155.19	4.1	-55.7	80.0	77.9	2.08	38.473		
900.0	897.7	895.2	895.1	1.8	0.8	-158.30	5.0	-56.4	93.8	91.4	2.35	39.917		
1,000.0	996.6	994.3	994.3	2.1	0.9	-160.66	5.8	-57.0	107.7	105.1	2.62	41.149		
1,100.0	1,095.6	1,093.3	1,093.2	2.3	0.9	-162.45	6.6	-57.5	121.7	118.9	2.89	42.187		
1,200.0	1,194.5	1,193.2	1,193.2	2.6	1.0	-164.21	6.9	-57.5	135.5	132.4	3.15	43.016		
1,300.0	1,293.5	1,292.2	1,292.2	2.9	1.1	-165.71	7.0	-57.1	149.0	145.5	3.41	43.646		
1,400.0	1,392.4	1,390.3	1,390.2	3.2	1.2	-166.67	7.8	-57.2	162.8	159.1	3.68	44.283		
1,500.0	1,491.4	1,489.0	1,488.9	3.5	1.3	-167.55	8.3	-57.6	177.1	173.1	3.94	44.957		
1,600.0	1,590.3	1,588.1	1,588.0	3.8	1.4	-168.29	8.8	-58.0	191.4	187.2	4.20	45.556		
1,700.0	1,689.3	1,687.1	1,687.1	4.1	1.5	-168.90	9.4	-58.4	205.7	201.2	4.46	46.070		
1,800.0	1,788.3	1,785.9	1,785.9	4.4	1.5	-169.43	10.1	-58.8	220.0	215.3	4.73	46.537		
1,900.0	1,887.2	1,883.7	1,883.6	4.7	1.6	-169.90	10.5	-59.4	234.6	229.6	4.99	47.021		
2,000.0	1,986.2	1,983.1	1,983.0	5.0	1.7	-170.33	10.9	-60.3	249.4	244.2	5.25	47.494		
2,100.0	2,085.1	2,081.8	2,081.7	5.3	1.8	-170.67	11.5	-61.0	264.1	258.6	5.51	47.893		
2,200.0	2,184.1	2,180.0	2,179.9	5.6	1.9	-170.94	12.2	-62.0	279.0	273.2	5.78	48.289		
2,300.0	2,283.0	2,278.3	2,278.2	5.9	2.0	-171.18	12.8	-63.2	294.1	288.0	6.04	48.690		
2,400.0	2,382.0	2,376.8	2,376.7	6.3	2.1	-171.44	13.1	-64.4	309.3	303.0	6.30	49.084		
2,500.0	2,480.9	2,475.1	2,475.0	6.6	2.2	-171.67	13.4	-65.7	324.7	318.1	6.56	49.468		
2,600.0	2,579.9	2,574.7	2,574.6	6.9	2.2	-171.89	13.7	-67.1	340.1	333.3	6.83	49.820		
2,700.0	2,678.9	2,672.9	2,672.8	7.2	2.3	-172.05	14.2	-68.4	355.4	348.3	7.09	50.125		
2,800.0	2,777.8	2,771.6	2,771.5	7.5	2.4	-172.16	14.9	-70.0	370.8	363.5	7.35	50.432		
2,900.0	2,876.8	2,869.4	2,869.3	7.8	2.5	-172.25	15.6	-71.7	386.4	378.7	7.62	50.726		
3,000.0	2,975.7	2,967.8	2,967.6	8.1	2.6	-172.32	16.2	-73.6	402.2	394.3	7.88	51.032		
3,100.0	3,074.7	3,067.3	3,067.1	8.4	2.7	-172.39	16.9	-75.6	417.9	409.7	8.15	51.304		
3,200.0	3,173.6	3,167.6	3,167.4	8.7	2.8	-172.45	17.8	-77.2	433.3	424.9	8.41	51.520		
3,300.0	3,272.6	3,265.7	3,265.4	9.0	2.9	-172.49	18.8	-78.8	448.6	439.9	8.68	51.710		
3,400.0	3,371.5	3,365.9	3,365.7	9.3	2.9	-172.54	19.6	-80.4	464.0	455.1	8.94	51.897		
3,500.0	3,470.5	3,466.5	3,466.2	9.6	3.0	-172.54	21.1	-81.7	478.9	469.7	9.21	52.008		
3,600.0	3,569.5	3,562.9	3,562.6	9.9	3.1	-172.50	22.8	-83.2	493.8	484.3	9.47	52.126		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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		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	-89.96	0.0	-50.3	50.3					
100.0	100.0	98.0	98.0	0.2	0.1	-89.96	0.0	-50.3	50.3	50.0	0.30	169.228		
200.0	200.0	198.0	198.0	0.3	0.3	-89.96	0.0	-50.3	50.3	49.7	0.65	77.891		
300.0	300.0	298.0	298.0	0.5	0.5	-89.96	0.0	-50.3	50.3	49.3	0.99	50.561		
400.0	400.0	398.0	398.0	0.7	0.7	-89.96	0.0	-50.3	50.3	49.0	1.34	37.428 CC, ES		
500.0	500.0	498.0	498.0	0.9	0.8	-148.67	0.0	-50.3	51.8	50.1	1.69	30.585		
600.0	599.8	597.8	597.8	1.0	1.0	-151.40	0.0	-50.3	56.3	54.3	2.04	27.563		
700.0	699.5	697.5	697.5	1.3	1.2	-155.06	0.0	-50.3	64.1	61.7	2.39	26.778 SF		
800.0	798.7	796.7	796.7	1.5	1.4	-158.89	0.0	-50.3	75.3	72.6	2.74	27.465		
900.0	897.7	895.7	895.7	1.8	1.5	-162.21	0.0	-50.3	88.9	85.8	3.09	28.746		
1,000.0	996.6	994.6	994.6	2.1	1.7	-164.67	0.0	-50.3	102.8	99.3	3.44	29.847		
1,100.0	1,095.6	1,093.6	1,093.6	2.3	1.9	-166.54	0.0	-50.3	116.7	112.9	3.79	30.793		
1,200.0	1,194.5	1,192.5	1,192.5	2.6	2.1	-168.01	0.0	-50.3	130.8	126.7	4.14	31.610		
1,300.0	1,293.5	1,291.5	1,291.5	2.9	2.2	-169.19	0.0	-50.3	144.9	140.5	4.48	32.319		
1,400.0	1,392.4	1,390.4	1,390.4	3.2	2.4	-170.16	0.0	-50.3	159.1	154.3	4.83	32.939		
1,500.0	1,491.4	1,489.4	1,489.4	3.5	2.6	-170.98	0.0	-50.3	173.4	168.2	5.18	33.484		
1,600.0	1,590.3	1,588.3	1,588.3	3.8	2.7	-171.67	0.0	-50.3	187.6	182.1	5.52	33.968		
1,700.0	1,689.3	1,687.3	1,687.3	4.1	2.9	-172.26	0.0	-50.3	201.9	196.0	5.87	34.398		
1,800.0	1,788.3	1,786.3	1,786.3	4.4	3.1	-172.78	0.0	-50.3	216.2	210.0	6.22	34.784		
1,900.0	1,887.2	1,885.2	1,885.2	4.7	3.3	-173.23	0.0	-50.3	230.5	223.9	6.56	35.132		
2,000.0	1,986.2	1,984.2	1,984.2	5.0	3.4	-173.62	0.0	-50.3	244.8	237.9	6.91	35.447		
2,100.0	2,085.1	2,083.1	2,083.1	5.3	3.6	-173.98	0.0	-50.3	259.2	251.9	7.25	35.733		
2,200.0	2,184.1	2,182.1	2,182.1	5.6	3.8	-174.29	0.0	-50.3	273.5	265.9	7.60	35.994		
2,300.0	2,283.0	2,281.0	2,281.0	5.9	4.0	-174.58	0.0	-50.3	287.9	279.9	7.94	36.233		
2,400.0	2,382.0	2,380.0	2,380.0	6.3	4.1	-174.84	0.0	-50.3	302.2	293.9	8.29	36.453		
2,500.0	2,480.9	2,478.9	2,478.9	6.6	4.3	-175.07	0.0	-50.3	316.6	307.9	8.64	36.656		
2,600.0	2,579.9	2,577.9	2,577.9	6.9	4.5	-175.29	0.0	-50.3	330.9	322.0	8.98	36.843		
2,700.0	2,678.9	2,676.9	2,676.9	7.2	4.6	-175.48	0.0	-50.3	345.3	336.0	9.33	37.017		
2,800.0	2,777.8	2,775.8	2,775.8	7.5	4.8	-175.66	0.0	-50.3	359.7	350.0	9.67	37.179		
2,900.0	2,876.8	2,874.8	2,874.8	7.8	5.0	-175.83	0.0	-50.3	374.1	364.1	10.02	37.330		
3,000.0	2,975.7	2,973.7	2,973.7	8.1	5.2	-175.99	0.0	-50.3	388.5	378.1	10.37	37.471		
3,100.0	3,074.7	3,072.7	3,072.7	8.4	5.3	-176.13	0.0	-50.3	402.8	392.1	10.71	37.604		
3,200.0	3,173.6	3,171.6	3,171.6	8.7	5.5	-176.26	0.0	-50.3	417.2	406.2	11.06	37.728		
3,300.0	3,272.6	3,270.6	3,270.6	9.0	5.7	-176.39	0.0	-50.3	431.6	420.2	11.40	37.844		
3,400.0	3,371.5	3,369.5	3,369.5	9.3	5.9	-176.50	0.0	-50.3	446.0	434.2	11.75	37.954		
3,500.0	3,470.5	3,468.5	3,468.5	9.6	6.0	-176.61	0.0	-50.3	460.4	448.3	12.10	38.058		
3,600.0	3,569.5	3,567.5	3,567.5	9.9	6.2	-176.72	0.0	-50.3	474.8	462.3	12.44	38.156		
3,700.0	3,668.4	3,666.4	3,666.4	10.2	6.4	-176.81	0.0	-50.3	489.2	476.4	12.79	38.249		

CC - Min centre to center distance or convergent point, 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 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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		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	-89.99	0.0	-50.3	50.3					
100.0	100.0	100.0	100.0	0.2	0.2	-89.99	0.0	-50.3	50.3	0.30	165.630			
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	0.0	-50.3	50.3	0.65	77.058 CC, ES			
300.0	300.0	298.4	298.4	0.5	0.5	-89.19	0.7	-51.8	51.9	1.00	51.727			
400.0	400.0	396.6	396.4	0.7	0.7	-87.08	2.9	-56.4	56.6	1.37	41.374			
500.0	500.0	494.2	493.6	0.9	0.9	-142.76	6.4	-64.0	66.0	1.70	38.833 SF			
600.0	599.8	590.6	589.4	1.0	1.2	-141.91	11.3	-74.4	81.3	2.05	39.574			
700.0	699.5	685.5	683.2	1.3	1.5	-141.80	17.5	-87.5	102.4	2.42	42.312			
800.0	798.7	781.5	777.7	1.5	1.8	-142.23	24.6	-102.6	128.3	2.80	45.739			
900.0	897.7	877.5	872.3	1.8	2.1	-143.19	31.7	-117.8	155.9	3.21	48.635			
1,000.0	996.6	973.6	966.9	2.1	2.4	-143.90	38.9	-133.0	183.6	3.61	50.802			
1,100.0	1,095.6	1,069.7	1,061.4	2.3	2.8	-144.42	46.0	-148.3	211.3	4.03	52.481			
1,200.0	1,194.5	1,165.8	1,156.0	2.6	3.1	-144.82	53.1	-163.5	239.0	4.44	53.817			
1,300.0	1,293.5	1,261.8	1,250.6	2.9	3.4	-145.14	60.3	-178.7	266.7	4.86	54.903			
1,400.0	1,392.4	1,357.9	1,345.2	3.2	3.8	-145.40	67.4	-193.9	294.5	5.28	55.802			
1,500.0	1,491.4	1,454.0	1,439.8	3.5	4.1	-145.62	74.6	-209.1	322.2	5.70	56.557			
1,600.0	1,590.3	1,550.0	1,534.4	3.8	4.4	-145.80	81.7	-224.4	349.9	6.12	57.200			
1,700.0	1,689.3	1,646.1	1,629.0	4.1	4.8	-145.95	88.9	-239.6	377.7	6.54	57.754			
1,800.0	1,788.3	1,742.2	1,723.6	4.4	5.1	-146.08	96.0	-254.8	405.4	6.96	58.236			
1,900.0	1,887.2	1,838.2	1,818.1	4.7	5.5	-146.20	103.2	-270.0	433.2	7.38	58.659			
2,000.0	1,986.2	1,934.3	1,912.7	5.0	5.8	-146.30	110.3	-285.2	460.9	7.81	59.033			
2,100.0	2,085.1	2,030.4	2,007.3	5.3	6.1	-146.39	117.5	-300.5	488.7	8.23	59.366			

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2B-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			
0.0	0.0	0.0	0.0	0.0	0.0	-89.97	0.0	-41.9	41.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.97	0.0	-41.9	41.9	41.6	0.30	138.025		
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-41.9	41.9	41.3	0.65	64.215		
300.0	300.0	300.0	300.0	0.5	0.5	-89.97	0.0	-41.9	41.9	40.9	1.00	41.840		
400.0	400.0	400.0	400.0	0.7	0.7	-89.97	0.0	-41.9	41.9	40.6	1.35	31.029 CC, ES		
500.0	500.0	498.8	498.8	0.9	0.8	-147.46	1.1	-43.3	44.7	43.0	1.70	26.339		
600.0	599.8	597.1	596.9	1.0	1.0	-146.98	4.2	-47.2	53.2	51.2	2.05	25.930 SF		
700.0	699.5	694.5	694.0	1.3	1.2	-146.42	9.4	-53.8	67.3	64.9	2.42	27.821		
800.0	798.7	791.6	790.4	1.5	1.5	-146.06	16.3	-62.6	86.6	83.8	2.80	30.896		
900.0	897.7	889.3	887.4	1.8	1.7	-146.46	23.6	-71.8	108.0	104.8	3.20	33.730		
1,000.0	996.6	987.0	984.4	2.1	2.0	-146.76	30.8	-80.9	129.4	125.8	3.61	35.868		
1,100.0	1,095.6	1,084.6	1,081.4	2.3	2.2	-146.97	38.1	-90.1	150.9	146.9	4.02	37.527		
1,200.0	1,194.5	1,182.3	1,178.3	2.6	2.5	-147.13	45.3	-99.3	172.3	167.9	4.44	38.848		
1,300.0	1,293.5	1,280.0	1,275.3	2.9	2.7	-147.26	52.5	-108.5	193.8	188.9	4.85	39.921		
1,400.0	1,392.4	1,377.6	1,372.3	3.2	3.0	-147.36	59.8	-117.7	215.3	210.0	5.27	40.809		
1,500.0	1,491.4	1,475.3	1,469.2	3.5	3.2	-147.44	67.0	-126.8	236.7	231.0	5.70	41.555		
1,600.0	1,590.3	1,573.0	1,566.2	3.8	3.5	-147.51	74.3	-136.0	258.2	252.1	6.12	42.190		
1,700.0	1,689.3	1,670.6	1,663.2	4.1	3.8	-147.57	81.5	-145.2	279.6	273.1	6.54	42.736		
1,800.0	1,788.3	1,768.3	1,760.1	4.4	4.0	-147.62	88.7	-154.4	301.1	294.1	6.97	43.211		
1,900.0	1,887.2	1,866.0	1,857.1	4.7	4.3	-147.66	96.0	-163.5	322.5	315.2	7.39	43.628		
2,000.0	1,986.2	1,963.7	1,954.1	5.0	4.5	-147.70	103.2	-172.7	344.0	336.2	7.82	43.996		
2,100.0	2,085.1	2,061.3	2,051.0	5.3	4.8	-147.73	110.5	-181.9	365.5	357.2	8.25	44.324		
2,200.0	2,184.1	2,159.0	2,148.0	5.6	5.1	-147.76	117.7	-191.1	386.9	378.3	8.67	44.617		
2,300.0	2,283.0	2,256.7	2,245.0	5.9	5.3	-147.79	124.9	-200.3	408.4	399.3	9.10	44.881		
2,400.0	2,382.0	2,354.3	2,341.9	6.3	5.6	-147.81	132.2	-209.4	429.8	420.3	9.53	45.121		
2,500.0	2,480.9	2,452.0	2,438.9	6.6	5.9	-147.83	139.4	-218.6	451.3	441.4	9.95	45.338		
2,600.0	2,579.9	2,549.7	2,535.9	6.9	6.1	-147.85	146.7	-227.8	472.8	462.4	10.38	45.536		
2,700.0	2,678.9	2,647.3	2,632.8	7.2	6.4	-147.87	153.9	-237.0	494.2	483.4	10.81	45.718		

CC - Min centre to center distance or convergent point, 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 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2C-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			
0.0	0.0	0.0	0.0	0.0	0.0	-89.97	0.0	-30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.97	0.0	-30.7	30.7	30.4	0.30	101.218		
200.0	200.0	200.0	200.0	0.3	0.3	-89.97	0.0	-30.7	30.7	30.1	0.65	47.091		
300.0	300.0	300.0	300.0	0.5	0.5	-89.97	0.0	-30.7	30.7	29.7	1.00	30.683		
400.0	400.0	400.0	400.0	0.7	0.7	-89.97	0.0	-30.7	30.7	29.4	1.35	22.755 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-149.31	0.0	-30.7	32.2	30.5	1.70	18.957		
600.0	599.8	599.8	599.8	1.0	1.0	-153.43	0.0	-30.7	36.8	34.8	2.05	17.966 SF		
700.0	699.5	699.5	699.5	1.3	1.2	-158.36	0.0	-30.7	44.8	42.4	2.40	18.675		
800.0	798.7	798.7	798.7	1.5	1.4	-162.86	0.0	-30.7	56.3	53.6	2.74	20.521		
900.0	897.7	897.7	897.7	1.8	1.5	-166.31	0.0	-30.7	70.2	67.1	3.09	22.706		
1,000.0	996.6	996.6	996.6	2.1	1.7	-168.63	0.0	-30.7	84.3	80.8	3.44	24.510		
1,100.0	1,095.6	1,095.6	1,095.6	2.3	1.9	-170.29	0.0	-30.7	98.5	94.7	3.78	26.012		
1,200.0	1,194.5	1,194.5	1,194.5	2.6	2.1	-171.52	0.0	-30.7	112.7	108.6	4.13	27.278		
1,300.0	1,293.5	1,293.3	1,293.3	2.9	2.2	-171.79	1.4	-31.4	127.0	122.6	4.48	28.353		
1,400.0	1,392.4	1,391.9	1,391.8	3.2	2.4	-170.61	5.7	-33.6	141.6	136.7	4.84	29.244		
1,500.0	1,491.4	1,490.2	1,489.7	3.5	2.6	-168.41	13.1	-37.4	156.5	151.3	5.22	29.970		
1,600.0	1,590.3	1,588.8	1,587.8	3.8	2.8	-166.05	21.9	-41.9	171.8	166.2	5.62	30.573		
1,700.0	1,689.3	1,687.4	1,685.9	4.1	3.0	-164.08	30.8	-46.4	187.4	181.4	6.03	31.082		
1,800.0	1,788.3	1,786.0	1,784.0	4.4	3.2	-162.41	39.6	-50.8	203.1	196.7	6.45	31.515		
1,900.0	1,887.2	1,884.6	1,882.1	4.7	3.4	-160.98	48.4	-55.3	219.0	212.2	6.87	31.886		
2,000.0	1,986.2	1,983.2	1,980.2	5.0	3.6	-159.74	57.2	-59.8	235.0	227.7	7.30	32.208		
2,100.0	2,085.1	2,081.8	2,078.3	5.3	3.9	-158.67	66.0	-64.3	251.2	243.4	7.73	32.489		
2,200.0	2,184.1	2,180.4	2,176.4	5.6	4.1	-157.72	74.9	-68.8	267.3	259.2	8.17	32.736		
2,300.0	2,283.0	2,278.9	2,274.5	5.9	4.3	-156.88	83.7	-73.2	283.6	275.0	8.60	32.956		
2,400.0	2,382.0	2,377.5	2,372.6	6.3	4.5	-156.13	92.5	-77.7	299.9	290.8	9.05	33.152		
2,500.0	2,480.9	2,476.1	2,470.7	6.6	4.8	-155.46	101.3	-82.2	316.2	306.7	9.49	33.328		
2,600.0	2,579.9	2,574.7	2,568.7	6.9	5.0	-154.85	110.2	-86.7	332.6	322.7	9.93	33.487		
2,700.0	2,678.9	2,673.3	2,666.8	7.2	5.2	-154.30	119.0	-91.2	349.0	338.6	10.38	33.632		
2,800.0	2,777.8	2,771.9	2,764.9	7.5	5.5	-153.80	127.8	-95.7	365.5	354.6	10.82	33.764		
2,900.0	2,876.8	2,870.5	2,863.0	7.8	5.7	-153.35	136.6	-100.1	381.9	370.7	11.27	33.885		
3,000.0	2,975.7	2,969.1	2,961.1	8.1	5.9	-152.93	145.4	-104.6	398.4	386.7	11.72	33.996		
3,100.0	3,074.7	3,067.7	3,059.2	8.4	6.2	-152.54	154.3	-109.1	414.9	402.8	12.17	34.098		
3,200.0	3,173.6	3,166.3	3,157.3	8.7	6.4	-152.19	163.1	-113.6	431.4	418.8	12.62	34.193		
3,300.0	3,272.6	3,264.9	3,255.4	9.0	6.6	-151.86	171.9	-118.1	448.0	434.9	13.07	34.281		
3,400.0	3,371.5	3,363.4	3,353.5	9.3	6.9	-151.55	180.7	-122.5	464.5	451.0	13.52	34.363		
3,500.0	3,470.5	3,462.0	3,451.6	9.6	7.1	-151.27	189.5	-127.0	481.1	467.1	13.97	34.440		
3,600.0	3,569.5	3,560.6	3,549.7	9.9	7.4	-151.00	198.4	-131.5	497.7	483.3	14.42	34.511		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2D-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							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-19.6	19.6							
100.0	100.0	100.0	100.0	0.2	0.2	-90.00	0.0	-19.6	19.6	19.3	0.30	64.412				
200.0	200.0	200.0	200.0	0.3	0.3	-90.00	0.0	-19.6	19.6	18.9	0.65	29.967				
300.0	300.0	300.0	300.0	0.5	0.5	-90.00	0.0	-19.6	19.6	18.6	1.00	19.525				
400.0	400.0	400.0	400.0	0.7	0.7	-90.00	0.0	-19.6	19.6	18.2	1.35	14.480 CC, ES				
500.0	500.0	500.0	500.0	0.9	0.8	-150.22	0.0	-19.6	21.1	19.4	1.70	12.387 SF				
600.0	599.8	599.8	599.8	1.0	1.0	-155.98	0.0	-19.6	25.7	23.7	2.05	12.558				
700.0	699.5	699.5	699.5	1.3	1.2	-161.94	0.0	-19.6	33.9	31.5	2.40	14.140				
800.0	798.7	798.7	798.7	1.5	1.4	-166.63	0.0	-19.6	45.6	42.9	2.74	16.659				
900.0	897.7	898.6	898.5	1.8	1.5	-168.36	1.7	-19.4	59.0	55.9	3.09	19.087				
1,000.0	996.6	998.8	998.6	2.1	1.7	-166.91	6.9	-19.0	70.9	67.4	3.45	20.521				
1,100.0	1,095.6	1,098.4	1,098.0	2.3	1.9	-164.16	14.7	-18.3	81.8	78.0	3.84	21.329				
1,200.0	1,194.5	1,197.8	1,197.0	2.6	2.1	-161.96	22.7	-17.7	92.9	88.6	4.23	21.952				
1,300.0	1,293.5	1,297.1	1,296.0	2.9	2.3	-160.22	30.6	-17.0	104.0	99.4	4.63	22.448				
1,400.0	1,392.4	1,396.5	1,395.0	3.2	2.5	-158.83	38.6	-16.3	115.2	110.2	5.04	22.848				
1,500.0	1,491.4	1,495.8	1,494.0	3.5	2.7	-157.68	46.6	-15.6	126.5	121.0	5.46	23.175				
1,600.0	1,590.3	1,595.1	1,593.0	3.8	2.9	-156.72	54.5	-15.0	137.8	131.9	5.88	23.444				
1,700.0	1,689.3	1,694.5	1,692.1	4.1	3.2	-155.90	62.5	-14.3	149.1	142.8	6.30	23.670				
1,800.0	1,788.3	1,793.8	1,791.1	4.4	3.4	-155.21	70.5	-13.6	160.5	153.8	6.73	23.860				
1,900.0	1,887.2	1,893.1	1,890.1	4.7	3.6	-154.60	78.5	-13.0	171.9	164.7	7.15	24.022				
2,000.0	1,986.2	1,992.5	1,989.1	5.0	3.8	-154.07	86.4	-12.3	183.3	175.7	7.59	24.162				
2,100.0	2,085.1	2,091.8	2,088.1	5.3	4.0	-153.60	94.4	-11.6	194.7	186.7	8.02	24.283				
2,200.0	2,184.1	2,191.1	2,187.1	5.6	4.2	-153.18	102.4	-10.9	206.1	197.7	8.45	24.389				
2,300.0	2,283.0	2,290.5	2,286.1	5.9	4.4	-152.81	110.4	-10.3	217.5	208.7	8.89	24.482				
2,400.0	2,382.0	2,389.8	2,385.1	6.3	4.7	-152.47	118.3	-9.6	229.0	219.7	9.32	24.565				
2,500.0	2,480.9	2,489.1	2,484.1	6.6	4.9	-152.17	126.3	-8.9	240.4	230.7	9.76	24.639				
2,600.0	2,579.9	2,588.5	2,583.2	6.9	5.1	-151.89	134.3	-8.3	251.9	241.7	10.20	24.705				
2,700.0	2,678.9	2,687.8	2,682.2	7.2	5.3	-151.64	142.2	-7.6	263.4	252.7	10.63	24.764				
2,800.0	2,777.8	2,787.1	2,781.2	7.5	5.5	-151.41	150.2	-6.9	274.8	263.8	11.07	24.818				
2,900.0	2,876.8	2,886.5	2,880.2	7.8	5.8	-151.19	158.2	-6.3	286.3	274.8	11.51	24.867				
3,000.0	2,975.7	2,985.8	2,979.2	8.1	6.0	-151.00	166.2	-5.6	297.8	285.8	11.95	24.912				
3,100.0	3,074.7	3,085.1	3,078.2	8.4	6.2	-150.82	174.1	-4.9	309.3	296.9	12.39	24.952				
3,200.0	3,173.6	3,184.5	3,177.2	8.7	6.4	-150.65	182.1	-4.2	320.7	307.9	12.83	24.990				
3,300.0	3,272.6	3,283.8	3,276.2	9.0	6.6	-150.49	190.1	-3.6	332.2	318.9	13.28	25.024				
3,400.0	3,371.5	3,383.1	3,375.3	9.3	6.9	-150.34	198.0	-2.9	343.7	330.0	13.72	25.056				
3,500.0	3,470.5	3,482.5	3,474.3	9.6	7.1	-150.21	206.0	-2.2	355.2	341.0	14.16	25.086				
3,600.0	3,569.5	3,581.8	3,573.3	9.9	7.3	-150.08	214.0	-1.6	366.7	352.1	14.60	25.113				
3,700.0	3,668.4	3,681.1	3,672.3	10.2	7.5	-149.96	222.0	-0.9	378.2	363.1	15.04	25.139				
3,800.0	3,767.4	3,780.5	3,771.3	10.5	7.7	-149.84	229.9	-0.2	389.7	374.2	15.49	25.162				
3,900.0	3,866.3	3,879.8	3,870.3	10.9	8.0	-149.74	237.9	0.5	401.2	385.2	15.93	25.185				
4,000.0	3,965.3	3,979.1	3,969.3	11.2	8.2	-149.64	245.9	1.1	412.7	396.3	16.37	25.205				
4,100.0	4,064.2	4,078.5	4,068.3	11.5	8.4	-149.54	253.8	1.8	424.2	407.3	16.82	25.225				
4,200.0	4,163.2	4,177.8	4,167.3	11.8	8.6	-149.45	261.8	2.5	435.7	418.4	17.26	25.243				
4,300.0	4,262.1	4,277.2	4,266.4	12.1	8.9	-149.36	269.8	3.1	447.2	429.5	17.70	25.261				
4,400.0	4,361.1	4,376.5	4,365.4	12.4	9.1	-149.28	277.8	3.8	458.7	440.5	18.15	25.277				
4,500.0	4,460.1	4,475.8	4,464.4	12.7	9.3	-149.20	285.7	4.5	470.2	451.6	18.59	25.292				
4,600.0	4,559.0	4,575.2	4,563.4	13.0	9.5	-149.13	293.7	5.1	481.7	462.6	19.03	25.307				
4,700.0	4,658.0	4,674.5	4,662.4	13.3	9.7	-149.06	301.7	5.8	493.2	473.7	19.48	25.321				

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:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2E-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-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	36.807		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.5	0.65	17.124		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	1.00	11.157		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-11.2	11.2	9.8	1.35	8.274 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-151.86	0.0	-11.2	12.7	11.0	1.70	7.463 SF		
600.0	599.8	599.8	599.8	1.0	1.0	-159.94	0.0	-11.2	17.5	15.4	2.05	8.533		
700.0	699.5	700.2	700.1	1.3	1.2	-164.30	1.4	-10.1	24.4	22.0	2.40	10.186		
800.0	798.7	800.7	800.5	1.5	1.4	-164.67	5.6	-6.9	31.9	29.2	2.75	11.606		
900.0	897.7	901.4	900.8	1.8	1.6	-162.76	12.6	-1.5	38.7	35.6	3.12	12.397		
1,000.0	996.6	1,001.2	1,000.1	2.1	1.8	-160.18	20.7	4.7	44.4	40.9	3.51	12.632		
1,100.0	1,095.6	1,101.0	1,099.4	2.3	2.0	-158.19	28.9	11.0	50.1	46.2	3.91	12.799		
1,200.0	1,194.5	1,200.9	1,198.7	2.6	2.3	-156.61	37.1	17.2	55.9	51.5	4.33	12.916		
1,300.0	1,293.5	1,300.7	1,298.0	2.9	2.5	-155.33	45.3	23.5	61.7	56.9	4.74	12.999		
1,400.0	1,392.4	1,400.5	1,397.3	3.2	2.7	-154.27	53.4	29.8	67.5	62.3	5.17	13.057		
1,500.0	1,491.4	1,500.3	1,496.6	3.5	3.0	-153.37	61.6	36.0	73.4	67.8	5.60	13.098		
1,600.0	1,590.3	1,600.2	1,595.9	3.8	3.2	-152.61	69.8	42.3	79.2	73.2	6.03	13.127		
1,700.0	1,689.3	1,700.0	1,695.2	4.1	3.5	-151.95	77.9	48.5	85.1	78.6	6.47	13.146		
1,800.0	1,788.3	1,799.8	1,794.5	4.4	3.7	-151.38	86.1	54.8	91.0	84.1	6.91	13.159		
1,900.0	1,887.2	1,899.6	1,893.7	4.7	3.9	-150.88	94.3	61.1	96.9	89.5	7.36	13.168		
2,000.0	1,986.2	1,999.4	1,993.0	5.0	4.2	-150.44	102.5	67.3	102.8	95.0	7.80	13.173		
2,100.0	2,085.1	2,099.3	2,092.3	5.3	4.4	-150.04	110.6	73.6	108.7	100.4	8.25	13.175		
2,200.0	2,184.1	2,199.1	2,191.6	5.6	4.7	-149.69	118.8	79.9	114.6	105.9	8.70	13.175		
2,300.0	2,283.0	2,298.9	2,290.9	5.9	4.9	-149.37	127.0	86.1	120.5	111.4	9.15	13.174		
2,400.0	2,382.0	2,398.7	2,390.2	6.3	5.2	-149.08	135.1	92.4	126.4	116.8	9.60	13.172		
2,500.0	2,480.9	2,498.6	2,489.5	6.6	5.4	-148.81	143.3	98.6	132.4	122.3	10.05	13.169		
2,600.0	2,579.9	2,598.4	2,588.8	6.9	5.7	-148.57	151.5	104.9	138.3	127.8	10.50	13.166		
2,700.0	2,678.9	2,698.2	2,688.1	7.2	5.9	-148.35	159.7	111.2	144.2	133.2	10.96	13.162		
2,800.0	2,777.8	2,798.0	2,787.4	7.5	6.2	-148.14	167.8	117.4	150.1	138.7	11.41	13.158		
2,900.0	2,876.8	2,897.8	2,886.6	7.8	6.4	-147.95	176.0	123.7	156.1	144.2	11.86	13.154		
3,000.0	2,975.7	2,997.7	2,985.9	8.1	6.7	-147.78	184.2	129.9	162.0	149.7	12.32	13.149		
3,100.0	3,074.7	3,097.5	3,085.2	8.4	6.9	-147.62	192.3	136.2	167.9	155.2	12.78	13.145		
3,200.0	3,173.6	3,197.3	3,184.5	8.7	7.2	-147.46	200.5	142.5	173.9	160.6	13.23	13.140		
3,300.0	3,272.6	3,297.1	3,283.8	9.0	7.4	-147.32	208.7	148.7	179.8	166.1	13.69	13.136		
3,400.0	3,371.5	3,397.0	3,383.1	9.3	7.7	-147.19	216.9	155.0	185.7	171.6	14.14	13.131		
3,500.0	3,470.5	3,496.8	3,482.4	9.6	7.9	-147.07	225.0	161.3	191.7	177.1	14.60	13.127		
3,600.0	3,569.5	3,596.6	3,581.7	9.9	8.2	-146.95	233.2	167.5	197.6	182.6	15.06	13.123		
3,700.0	3,668.4	3,696.4	3,681.0	10.2	8.4	-146.84	241.4	173.8	203.6	188.0	15.52	13.119		
3,800.0	3,767.4	3,796.2	3,780.3	10.5	8.6	-146.74	249.5	180.0	209.5	193.5	15.97	13.115		
3,900.0	3,866.3	3,896.1	3,879.5	10.9	8.9	-146.64	257.7	186.3	215.4	199.0	16.43	13.111		
4,000.0	3,965.3	3,995.9	3,978.8	11.2	9.1	-146.54	265.9	192.6	221.4	204.5	16.89	13.107		
4,100.0	4,064.2	4,095.7	4,078.1	11.5	9.4	-146.46	274.1	198.8	227.3	210.0	17.35	13.103		
4,200.0	4,163.2	4,195.5	4,177.4	11.8	9.6	-146.37	282.2	205.1	233.3	215.5	17.81	13.099		
4,300.0	4,262.1	4,295.4	4,276.7	12.1	9.9	-146.29	290.4	211.3	239.2	220.9	18.27	13.096		
4,400.0	4,361.1	4,395.2	4,376.0	12.4	10.1	-146.22	298.6	217.6	245.1	226.4	18.72	13.092		
4,500.0	4,460.1	4,495.0	4,475.3	12.7	10.4	-146.15	306.7	223.9	251.1	231.9	19.18	13.089		
4,600.0	4,559.0	4,594.8	4,574.6	13.0	10.6	-146.08	314.9	230.1	257.0	237.4	19.64	13.085		
4,700.0	4,658.0	4,694.7	4,673.9	13.3	10.9	-146.01	323.1	236.4	263.0	242.9	20.10	13.082		
4,800.0	4,756.9	4,794.5	4,773.2	13.6	11.1	-145.95	331.3	242.7	268.9	248.4	20.56	13.079		
4,900.0	4,855.9	4,894.3	4,872.5	13.9	11.4	-145.89	339.4	248.9	274.9	253.8	21.02	13.076		
5,000.0	4,954.8	4,994.1	4,971.7	14.2	11.6	-145.83	347.6	255.2	280.8	259.3	21.48	13.073		
5,100.0	5,053.8	5,093.9	5,071.0	14.5	11.9	-145.78	355.8	261.4	286.8	264.8	21.94	13.070		

CC - Min centre to center distance or convergent point, 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 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2E-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		
5,200.0	5,152.7	5,193.8	5,170.3	14.8	12.1	-145.73	363.9	267.7	292.7	270.3	22.40	13.067		
5,300.0	5,251.7	5,293.6	5,269.6	15.2	12.4	-145.67	372.1	274.0	298.6	275.8	22.86	13.065		
5,400.0	5,350.6	5,393.4	5,368.9	15.5	12.6	-145.63	380.3	280.2	304.6	281.3	23.32	13.062		
5,500.0	5,449.6	5,493.2	5,468.2	15.8	12.9	-145.58	388.5	286.5	310.5	286.8	23.78	13.059		
5,600.0	5,548.6	5,593.1	5,567.5	16.1	13.1	-145.53	396.6	292.7	316.5	292.2	24.24	13.057		
5,700.0	5,647.5	5,692.9	5,666.8	16.4	13.4	-145.49	404.8	299.0	322.4	297.7	24.70	13.054		
5,800.0	5,746.5	5,792.7	5,766.1	16.7	13.6	-145.45	413.0	305.3	328.4	303.2	25.16	13.052		
5,900.0	5,845.4	5,892.5	5,865.4	17.0	13.9	-145.41	421.1	311.5	334.3	308.7	25.62	13.050		
6,000.0	5,944.4	5,992.3	5,964.6	17.3	14.1	-145.37	429.3	317.8	340.3	314.2	26.08	13.047		
6,100.0	6,043.3	6,092.2	6,063.9	17.6	14.4	-145.33	437.5	324.1	346.2	319.7	26.54	13.045		
6,200.0	6,142.3	6,192.0	6,163.2	17.9	14.6	-145.30	445.7	330.3	352.2	325.2	27.00	13.043		
6,300.0	6,241.2	6,291.8	6,262.5	18.2	14.9	-145.26	453.8	336.6	358.1	330.7	27.46	13.041		
6,400.0	6,340.2	6,391.6	6,361.8	18.5	15.1	-145.23	462.0	342.8	364.1	336.1	27.92	13.039		
6,500.0	6,439.2	6,491.5	6,461.1	18.8	15.4	-145.19	470.2	349.1	370.0	341.6	28.38	13.037		
6,600.0	6,538.1	6,591.3	6,560.4	19.1	15.6	-145.16	478.3	355.4	376.0	347.1	28.84	13.035		
6,700.0	6,637.1	6,691.6	6,660.2	19.5	15.9	-145.16	486.3	361.7	381.9	352.6	29.29	13.038		
6,800.0	6,736.0	6,792.9	6,761.1	19.8	16.0	-146.87	482.9	368.0	387.5	358.3	29.24	13.254		
6,900.0	6,835.0	6,887.5	6,853.5	20.1	15.9	-150.73	463.6	373.8	394.0	365.4	28.58	13.785		
7,000.0	6,934.0	6,972.4	6,932.6	20.4	15.8	171.23	433.6	378.8	404.3	376.7	27.55	14.676		
7,100.0	7,032.8	7,050.0	7,000.4	20.5	15.6	111.32	396.2	383.1	418.3	391.7	26.53	15.765		
7,200.0	7,128.5	7,128.5	7,063.2	20.5	15.4	90.68	349.4	387.1	434.3	408.6	25.78	16.849		
7,300.0	7,218.3	7,200.0	7,114.3	20.5	15.2	80.42	299.6	390.3	451.0	425.7	25.32	17.814		
7,400.0	7,299.4	7,274.6	7,160.7	20.4	15.0	73.68	241.3	393.2	467.0	442.0	25.01	18.674		
7,500.0	7,369.4	7,350.0	7,199.5	20.2	14.9	68.94	176.7	395.7	481.4	456.6	24.76	19.441		
7,600.0	7,426.2	7,415.0	7,225.8	20.2	14.9	65.77	117.4	397.3	493.2	468.6	24.56	20.079		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2G-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	8.4	8.4	8.1	0.30	27.605		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.7	0.65	12.843	CC, ES	
300.0	300.0	299.7	299.7	0.5	0.5	85.90	0.7	10.0	10.0	9.0	1.00	9.965		
400.0	400.0	399.1	399.0	0.7	0.7	78.92	2.9	14.7	15.0	13.6	1.36	11.009		
500.0	500.0	498.3	497.7	0.9	0.9	17.53	6.5	22.5	21.8	20.1	1.70	12.852		
600.0	599.8	597.2	595.9	1.0	1.2	16.51	11.4	33.4	28.8	26.8	2.05	14.060		
700.0	699.5	695.8	693.4	1.3	1.5	16.61	17.8	47.3	35.8	33.4	2.40	14.924		
800.0	798.7	795.0	790.8	1.5	1.8	17.37	25.5	64.0	42.5	39.7	2.76	15.387		
900.0	897.7	894.8	888.9	1.8	2.2	18.69	33.3	81.1	47.5	44.3	3.14	15.129		
1,000.0	996.6	994.7	986.9	2.1	2.6	19.78	41.2	98.3	52.4	48.9	3.52	14.889		
1,100.0	1,095.6	1,094.6	1,085.0	2.3	2.9	20.68	49.0	115.4	57.4	53.5	3.91	14.676		
1,200.0	1,194.5	1,194.5	1,183.1	2.6	3.3	21.43	56.9	132.6	62.4	58.1	4.31	14.486		
1,300.0	1,293.5	1,294.3	1,281.2	2.9	3.7	22.08	64.8	149.7	67.4	62.7	4.71	14.316		
1,400.0	1,392.4	1,394.2	1,379.2	3.2	4.0	22.63	72.6	166.9	72.4	67.3	5.11	14.164		
1,500.0	1,491.4	1,494.1	1,477.3	3.5	4.4	23.11	80.5	184.1	77.4	71.9	5.52	14.027		
1,600.0	1,590.3	1,593.9	1,575.4	3.8	4.8	23.54	88.3	201.2	82.4	76.5	5.93	13.904		
1,700.0	1,689.3	1,693.8	1,673.4	4.1	5.2	23.91	96.2	218.4	87.5	81.1	6.34	13.791		
1,800.0	1,788.3	1,793.7	1,771.5	4.4	5.5	24.24	104.1	235.5	92.5	85.7	6.76	13.689		
1,900.0	1,887.2	1,893.6	1,869.6	4.7	5.9	24.54	111.9	252.7	97.5	90.3	7.17	13.596		
2,000.0	1,986.2	1,993.4	1,967.7	5.0	6.3	24.81	119.8	269.9	102.5	95.0	7.59	13.511		
2,100.0	2,085.1	2,093.3	2,065.7	5.3	6.7	25.06	127.6	287.0	107.6	99.6	8.01	13.433		
2,200.0	2,184.1	2,193.2	2,163.8	5.6	7.0	25.28	135.5	304.2	112.6	104.2	8.43	13.361		
2,300.0	2,283.0	2,293.1	2,261.9	5.9	7.4	25.49	143.4	321.3	117.7	108.8	8.85	13.294		
2,400.0	2,382.0	2,392.9	2,360.0	6.3	7.8	25.67	151.2	338.5	122.7	113.4	9.27	13.233		
2,500.0	2,480.9	2,492.8	2,458.0	6.6	8.2	25.85	159.1	355.6	127.7	118.0	9.69	13.175		
2,600.0	2,579.9	2,592.7	2,556.1	6.9	8.5	26.01	166.9	372.8	132.8	122.6	10.12	13.122		
2,700.0	2,678.9	2,692.5	2,654.2	7.2	8.9	26.15	174.8	390.0	137.8	127.3	10.54	13.072		
2,800.0	2,777.8	2,792.4	2,752.2	7.5	9.3	26.29	182.7	407.1	142.8	131.9	10.97	13.026		
2,900.0	2,876.8	2,892.3	2,850.3	7.8	9.7	26.42	190.5	424.3	147.9	136.5	11.39	12.982		
3,000.0	2,975.7	2,992.2	2,948.4	8.1	10.0	26.54	198.4	441.4	152.9	141.1	11.82	12.942		
3,100.0	3,074.7	3,092.0	3,046.5	8.4	10.4	26.65	206.2	458.6	158.0	145.7	12.24	12.903		
3,200.0	3,173.6	3,191.9	3,144.5	8.7	10.8	26.76	214.1	475.8	163.0	150.4	12.67	12.867		
3,300.0	3,272.6	3,291.8	3,242.6	9.0	11.2	26.85	222.0	492.9	168.1	155.0	13.10	12.833		
3,400.0	3,371.5	3,391.6	3,340.7	9.3	11.5	26.95	229.8	510.1	173.1	159.6	13.52	12.801		
3,500.0	3,470.5	3,491.5	3,438.8	9.6	11.9	27.03	237.7	527.2	178.2	164.2	13.95	12.770		
3,600.0	3,569.5	3,591.4	3,536.8	9.9	12.3	27.12	245.5	544.4	183.2	168.8	14.38	12.741		
3,700.0	3,668.4	3,691.3	3,634.9	10.2	12.7	27.20	253.4	561.5	188.2	173.4	14.81	12.714		
3,800.0	3,767.4	3,791.1	3,733.0	10.5	13.0	27.27	261.3	578.7	193.3	178.1	15.23	12.688		
3,900.0	3,866.3	3,891.0	3,831.0	10.9	13.4	27.34	269.1	595.9	198.3	182.7	15.66	12.663		
4,000.0	3,965.3	3,990.9	3,929.1	11.2	13.8	27.41	277.0	613.0	203.4	187.3	16.09	12.640		
4,100.0	4,064.2	4,090.8	4,027.2	11.5	14.2	27.47	284.8	630.2	208.4	191.9	16.52	12.617		
4,200.0	4,163.2	4,190.6	4,125.3	11.8	14.6	27.53	292.7	647.3	213.5	196.5	16.95	12.596		
4,300.0	4,262.1	4,290.5	4,223.3	12.1	14.9	27.59	300.6	664.5	218.5	201.2	17.38	12.575		
4,400.0	4,361.1	4,390.4	4,321.4	12.4	15.3	27.65	308.4	681.7	223.6	205.8	17.81	12.555		
4,500.0	4,460.1	4,490.2	4,419.5	12.7	15.7	27.70	316.3	698.8	228.6	210.4	18.24	12.537		
4,600.0	4,559.0	4,590.1	4,517.6	13.0	16.1	27.75	324.1	716.0	233.7	215.0	18.67	12.519		
4,700.0	4,658.0	4,690.0	4,615.6	13.3	16.4	27.80	332.0	733.1	238.7	219.6	19.10	12.501		
4,800.0	4,756.9	4,789.9	4,713.7	13.6	16.8	27.84	339.9	750.3	243.8	224.2	19.53	12.485		
4,900.0	4,855.9	4,889.7	4,811.8	13.9	17.2	27.89	347.7	767.4	248.8	228.9	19.96	12.469		
5,000.0	4,954.8	4,989.6	4,909.8	14.2	17.6	27.93	355.6	784.6	253.9	233.5	20.39	12.454		
5,100.0	5,053.8	5,089.5	5,007.9	14.5	17.9	27.97	363.4	801.8	258.9	238.1	20.82	12.439		

CC - Min centre to center distance or convergent point, 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 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 2G-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							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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
5,200.0	5,152.7	5,189.3	5,106.0	14.8	18.3	28.01	371.3	818.9	264.0	242.7	21.25	12.425	
5,300.0	5,251.7	5,289.2	5,204.1	15.2	18.7	28.05	379.2	836.1	269.0	247.3	21.68	12.411	
5,400.0	5,350.6	5,389.1	5,302.1	15.5	19.1	28.09	387.0	853.2	274.1	252.0	22.11	12.398	
5,500.0	5,449.6	5,489.0	5,400.2	15.8	19.5	28.12	394.9	870.4	279.1	256.6	22.54	12.385	
5,600.0	5,548.6	5,588.8	5,498.3	16.1	19.8	28.16	402.7	887.6	284.2	261.2	22.97	12.373	
5,700.0	5,647.5	5,688.7	5,596.4	16.4	20.2	28.19	410.6	904.7	289.2	265.8	23.40	12.361	
5,800.0	5,746.5	5,788.6	5,694.4	16.7	20.6	28.22	418.5	921.9	294.3	270.4	23.83	12.350	
5,900.0	5,845.4	5,888.5	5,792.5	17.0	21.0	28.25	426.3	939.0	299.3	275.1	24.26	12.339	
6,000.0	5,944.4	5,988.3	5,890.6	17.3	21.3	28.28	434.2	956.2	304.4	279.7	24.69	12.328	
6,100.0	6,043.3	6,088.2	5,988.6	17.6	21.7	28.31	442.0	973.3	309.4	284.3	25.12	12.318	
6,200.0	6,142.3	6,188.1	6,086.7	17.9	22.1	28.34	449.9	990.5	314.5	288.9	25.55	12.308	
6,300.0	6,241.2	6,287.9	6,184.8	18.2	22.5	28.36	457.8	1,007.7	319.5	293.5	25.98	12.298	
6,400.0	6,340.2	6,387.8	6,282.9	18.5	22.8	28.39	465.6	1,024.8	324.6	298.2	26.41	12.289	
6,500.0	6,439.2	6,487.7	6,380.9	18.8	23.2	28.42	473.5	1,042.0	329.6	302.8	26.84	12.279	
6,600.0	6,538.1	6,587.6	6,479.0	19.1	23.6	28.44	481.4	1,059.1	334.7	307.4	27.27	12.271	
6,700.0	6,637.1	6,687.4	6,577.1	19.5	24.0	28.46	489.2	1,076.3	339.7	312.0	27.71	12.262	
6,800.0	6,736.0	6,787.6	6,675.5	19.8	24.3	28.50	497.0	1,093.5	344.8	316.6	28.14	12.253	
6,900.0	6,835.0	6,889.7	6,775.9	20.1	24.6	30.28	494.3	1,111.1	349.4	320.4	29.00	12.047	
7,000.0	6,934.0	6,985.8	6,868.5	20.4	24.8	1.97	475.3	1,127.3	354.7	324.1	30.53	11.617	
7,100.0	7,032.8	7,077.1	6,952.5	20.5	24.9	-47.68	442.8	1,142.0	361.9	330.1	31.84	11.369	
7,200.0	7,128.5	7,165.1	7,027.7	20.5	24.9	-58.86	399.2	1,155.1	370.7	338.2	32.47	11.416	
7,300.0	7,218.3	7,250.0	7,093.1	20.5	24.9	-61.05	346.5	1,166.6	380.1	347.8	32.31	11.765	
7,400.0	7,299.4	7,333.3	7,149.2	20.4	24.9	-60.80	285.7	1,176.4	389.5	358.1	31.37	12.417	
7,500.0	7,369.4	7,414.6	7,195.0	20.2	24.8	-59.85	219.2	1,184.4	398.2	368.3	29.83	13.346	
7,600.0	7,426.2	7,494.5	7,230.6	20.2	24.9	-58.80	148.0	1,190.6	405.6	377.6	28.05	14.462	
7,700.0	7,467.9	7,573.4	7,255.8	20.1	24.9	-57.90	73.4	1,195.0	411.4	384.9	26.47	15.541	
7,800.0	7,493.5	7,650.0	7,270.4	20.2	25.0	-57.29	-1.7	1,197.6	415.2	389.5	25.65	16.187	
7,900.0	7,502.0	7,731.3	7,275.0	20.4	25.1	-56.99	-82.8	1,198.4	416.7	390.7	25.97	16.047	
8,000.0	7,502.0	7,831.3	7,275.0	20.8	25.4	-56.99	-182.8	1,198.4	416.7	389.8	26.85	15.518	
8,100.0	7,502.0	7,931.3	7,275.0	21.2	25.8	-56.99	-282.8	1,198.4	416.7	388.7	28.01	14.877	
8,200.0	7,502.0	8,031.3	7,275.0	21.9	26.3	-56.99	-382.8	1,198.4	416.7	387.2	29.42	14.165	
8,300.0	7,502.0	8,131.3	7,275.0	22.6	26.9	-56.99	-482.8	1,198.4	416.7	385.6	31.04	13.423	
8,400.0	7,502.0	8,231.3	7,275.0	23.4	27.6	-56.99	-582.8	1,198.4	416.7	383.8	32.85	12.683	
8,500.0	7,502.0	8,331.3	7,275.0	24.4	28.4	-56.99	-682.8	1,198.4	416.7	381.8	34.82	11.967	
8,600.0	7,502.0	8,431.3	7,275.0	25.4	29.2	-56.99	-782.8	1,198.4	416.7	379.7	36.92	11.287	
8,700.0	7,502.0	8,531.3	7,275.0	26.5	30.2	-56.99	-882.8	1,198.4	416.7	377.5	39.12	10.650	
8,800.0	7,502.0	8,631.3	7,275.0	27.7	31.2	-56.99	-982.8	1,198.4	416.7	375.2	41.42	10.059	
8,900.0	7,502.0	8,731.3	7,275.0	28.9	32.3	-56.99	-1,082.8	1,198.4	416.7	372.9	43.80	9.512	
9,000.0	7,502.0	8,831.3	7,275.0	30.2	33.4	-56.99	-1,182.8	1,198.4	416.7	370.4	46.25	9.010	
9,100.0	7,502.0	8,931.3	7,275.0	31.5	34.6	-56.99	-1,282.8	1,198.4	416.7	367.9	48.75	8.548	
9,200.0	7,502.0	9,031.3	7,275.0	32.9	35.9	-56.99	-1,382.8	1,198.4	416.7	365.4	51.29	8.123	
9,300.0	7,502.0	9,131.3	7,275.0	34.3	37.2	-56.99	-1,482.8	1,198.4	416.7	362.8	53.88	7.733	
9,400.0	7,502.0	9,231.3	7,275.0	35.7	38.5	-56.99	-1,582.8	1,198.4	416.7	360.2	56.51	7.374	
9,500.0	7,502.0	9,331.3	7,275.0	37.2	39.8	-56.99	-1,682.8	1,198.4	416.7	357.5	59.16	7.043	
9,600.0	7,502.0	9,431.3	7,275.0	38.7	41.2	-56.99	-1,782.8	1,198.4	416.7	354.8	61.84	6.737	
9,700.0	7,502.0	9,531.3	7,275.0	40.2	42.6	-56.99	-1,882.8	1,198.4	416.7	352.1	64.55	6.455	
9,800.0	7,502.0	9,631.3	7,275.0	41.7	44.1	-56.99	-1,982.8	1,198.4	416.7	349.4	67.28	6.193	
9,900.0	7,502.0	9,731.3	7,275.0	43.2	45.5	-56.99	-2,082.8	1,198.4	416.7	346.6	70.02	5.951	
10,000.0	7,502.0	9,831.3	7,275.0	44.8	47.0	-56.99	-2,182.8	1,198.4	416.7	343.9	72.78	5.725	
10,100.0	7,502.0	9,931.3	7,275.0	46.4	48.5	-56.99	-2,282.8	1,198.4	416.7	341.1	75.55	5.515	
10,200.0	7,502.0	10,031.3	7,275.0	48.0	50.0	-56.99	-2,382.8	1,198.4	416.7	338.3	78.34	5.319	
10,300.0	7,502.0	10,131.3	7,275.0	49.6	51.6	-56.99	-2,482.8	1,198.4	416.7	335.5	81.14	5.135	

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (Ione)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Ione 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 (Ione) - Ione 2G-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		
10,400.0	7,502.0	10,231.3	7,275.0	51.2	53.1	-56.99	-2,582.8	1,198.4	416.7	332.7	83.95	4.963		
10,500.0	7,502.0	10,331.3	7,275.0	52.8	54.7	-56.99	-2,682.8	1,198.4	416.7	329.9	86.77	4.802		
10,600.0	7,502.0	10,431.3	7,275.0	54.4	56.2	-56.99	-2,782.8	1,198.4	416.7	327.1	89.59	4.651		
10,700.0	7,502.0	10,531.3	7,275.0	56.0	57.8	-56.99	-2,882.8	1,198.4	416.7	324.2	92.43	4.508		
10,800.0	7,502.0	10,631.3	7,275.0	57.7	59.4	-56.99	-2,982.8	1,198.4	416.7	321.4	95.27	4.374		
10,900.0	7,502.0	10,731.3	7,275.0	59.3	61.0	-56.99	-3,082.8	1,198.4	416.7	318.5	98.12	4.247		
11,000.0	7,502.0	10,831.3	7,275.0	61.0	62.6	-56.99	-3,182.8	1,198.4	416.7	315.7	100.97	4.127		
11,100.0	7,502.0	10,931.3	7,275.0	62.6	64.2	-56.99	-3,282.8	1,198.4	416.7	312.8	103.83	4.013		
11,200.0	7,502.0	11,031.3	7,275.0	64.3	65.9	-56.99	-3,382.8	1,198.4	416.7	310.0	106.69	3.905		
11,300.0	7,502.0	11,131.3	7,275.0	66.0	67.5	-56.99	-3,482.8	1,198.4	416.7	307.1	109.56	3.803		
11,400.0	7,502.0	11,231.3	7,275.0	67.6	69.1	-56.99	-3,582.8	1,198.4	416.7	304.2	112.43	3.706		
11,500.0	7,502.0	11,331.3	7,275.0	69.3	70.8	-56.99	-3,682.8	1,198.4	416.7	301.4	115.31	3.613		
11,600.0	7,502.0	11,431.3	7,275.0	71.0	72.4	-56.99	-3,782.8	1,198.4	416.7	298.5	118.19	3.525		
11,700.0	7,502.0	11,531.3	7,275.0	72.7	74.1	-56.99	-3,882.8	1,198.4	416.7	295.6	121.07	3.441		
11,800.0	7,502.0	11,631.3	7,275.0	74.4	75.7	-56.99	-3,982.8	1,198.4	416.7	292.7	123.96	3.361		
11,900.0	7,502.0	11,731.3	7,275.0	76.1	77.4	-56.99	-4,082.8	1,198.4	416.7	289.8	126.85	3.285		
12,000.0	7,502.0	11,831.3	7,275.0	77.8	79.0	-56.99	-4,182.8	1,198.4	416.7	286.9	129.74	3.212		
12,100.0	7,502.0	11,931.3	7,275.0	79.5	80.7	-56.99	-4,282.8	1,198.4	416.7	284.0	132.64	3.141		
12,103.4	7,502.0	11,934.7	7,275.0	79.5	80.8	-56.99	-4,286.2	1,198.4	416.7	283.9	132.73	3.139		
12,119.3	7,502.0	11,943.3	7,275.0	79.8	80.9	-56.99	-4,294.8	1,198.4	416.7	283.6	133.09	3.131 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors 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 4-4-2 - Wellbore #1 - 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				
9,600.0	7,502.0	7,967.7	7,503.0	38.7	43.9	-90.00	-2,127.3	1,145.8	454.7	384.3	70.35	6.463				
9,700.0	7,502.0	7,967.7	7,503.0	40.2	43.9	-90.00	-2,127.3	1,145.8	384.5	312.5	71.98	5.341				
9,800.0	7,502.0	7,967.7	7,503.0	41.7	43.9	-90.00	-2,127.3	1,145.8	330.1	256.4	73.62	4.483				
9,900.0	7,502.0	7,967.7	7,503.0	43.2	43.9	-90.00	-2,127.3	1,145.8	300.1	224.8	75.27	3.986				
9,944.5	7,502.0	7,967.7	7,503.0	43.9	43.9	-90.00	-2,127.3	1,145.8	296.8	220.7	76.01	3.904	CC, ES, SF			
10,000.0	7,502.0	7,967.7	7,503.0	44.8	43.9	-90.00	-2,127.3	1,145.8	301.9	225.0	76.93	3.924				
10,100.0	7,502.0	7,967.7	7,503.0	46.4	43.9	-90.00	-2,127.3	1,145.8	335.0	256.4	78.60	4.263				
10,200.0	7,502.0	7,967.7	7,503.0	48.0	43.9	-90.00	-2,127.3	1,145.8	391.6	311.3	80.27	4.878				
10,300.0	7,502.0	7,967.7	7,503.0	49.6	43.9	-90.00	-2,127.3	1,145.8	463.1	381.1	81.95	5.651				

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

Cathedral Energy Services

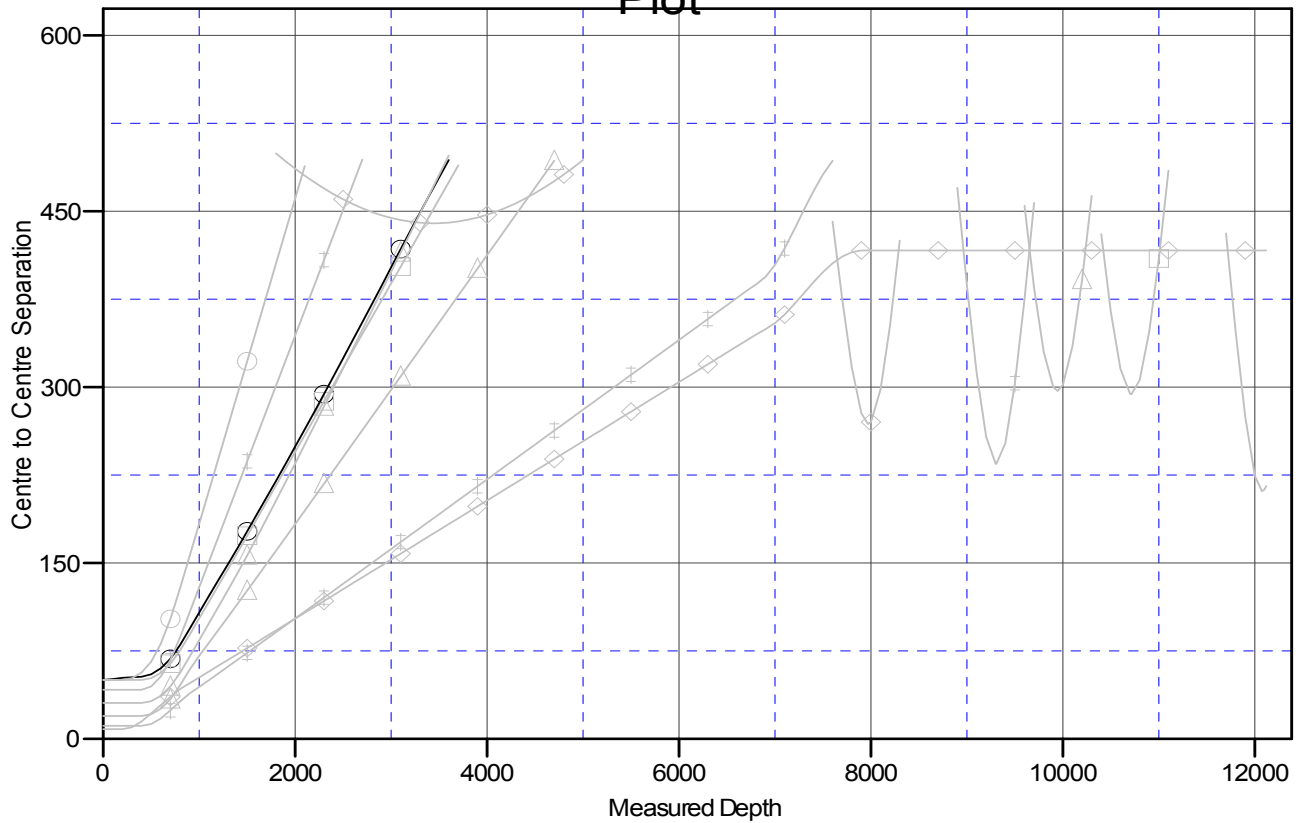
Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2F-2H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2F-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB=13' @ 5059.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: lone 2F-2H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.49°

Ladder Plot



LEGEND

lone #21-2 (Existing), DD, Plan #1 V0	lone #3 (Existing), DD, Plan #1 V0	lone 2E-2H, HZ, Plan #1 V0
lone #22-2 (Existing), DD, Plan #1 V0	lone 2A-2H, HZ, Plan #1 V0	lone 2G-2H, HZ, Plan #1 V0
lone #23-2 (Existing), DD, Plan #1 V0	lone 2B-2H, HZ, Plan #1 V0	lone 4-4-2, Wellbore #1, Plan #1 V0
lone #24-2 (Existing), DD, Plan #1 V0	lone 2C-2H, HZ, Plan #1 V0	
lone #3 (Existing), DD, DD V0	lone 2D-2H, HZ, Plan #1 V0	