

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2C-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 2C-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 2C-2H					
Well Position	+N/-S	0.0 ft	Northing:	1,306,798.64 ft	Latitude:	40.173110
	+E/-W	0.0 ft	Easting:	3,209,921.08 ft	Longitude:	-104.748800
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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,488.0	5.76	333.07	1,487.5	12.9	-6.6	2.00	2.00	0.00	333.07	
6,681.1	5.76	333.07	6,654.4	477.6	-242.6	0.00	0.00	0.00	0.00	
7,632.5	90.00	180.00	7,278.0	-93.1	-271.1	10.00	8.85	-16.09	-152.95	
11,852.5	90.00	180.00	7,278.0	-4,313.1	-271.1	0.00	0.00	0.00	0.00	lone 2C-2H PBHL (46

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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 2C-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	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1200' MD
1,300.0	2.00	333.07	1,300.0	1.6	-0.8	-1.6	2.00	2.00	
1,400.0	4.00	333.07	1,399.8	6.2	-3.2	-6.2	2.00	2.00	
1,488.0	5.76	333.07	1,487.5	12.9	-6.6	-12.9	2.00	2.00	EOB @ 1488' MD; 5.76° Inc
1,500.0	5.76	333.07	1,499.5	14.0	-7.1	-14.0	0.00	0.00	
1,600.0	5.76	333.07	1,598.9	22.9	-11.6	-22.9	0.00	0.00	
1,700.0	5.76	333.07	1,698.4	31.9	-16.2	-31.9	0.00	0.00	
1,800.0	5.76	333.07	1,797.9	40.8	-20.7	-40.8	0.00	0.00	
1,900.0	5.76	333.07	1,897.4	49.8	-25.3	-49.8	0.00	0.00	
2,000.0	5.76	333.07	1,996.9	58.7	-29.8	-58.7	0.00	0.00	
2,100.0	5.76	333.07	2,096.4	67.7	-34.4	-67.7	0.00	0.00	
2,200.0	5.76	333.07	2,195.9	76.6	-38.9	-76.6	0.00	0.00	
2,300.0	5.76	333.07	2,295.4	85.6	-43.5	-85.6	0.00	0.00	
2,400.0	5.76	333.07	2,394.9	94.5	-48.0	-94.5	0.00	0.00	
2,500.0	5.76	333.07	2,494.4	103.4	-52.6	-103.4	0.00	0.00	
2,600.0	5.76	333.07	2,593.9	112.4	-57.1	-112.4	0.00	0.00	
2,700.0	5.76	333.07	2,693.4	121.3	-61.6	-121.3	0.00	0.00	
2,800.0	5.76	333.07	2,792.9	130.3	-66.2	-130.3	0.00	0.00	
2,900.0	5.76	333.07	2,892.4	139.2	-70.7	-139.2	0.00	0.00	
3,000.0	5.76	333.07	2,991.9	148.2	-75.3	-148.2	0.00	0.00	
3,100.0	5.76	333.07	3,091.4	157.1	-79.8	-157.1	0.00	0.00	
3,200.0	5.76	333.07	3,190.9	166.1	-84.4	-166.1	0.00	0.00	
3,300.0	5.76	333.07	3,290.4	175.0	-88.9	-175.0	0.00	0.00	
3,400.0	5.76	333.07	3,389.9	184.0	-93.5	-184.0	0.00	0.00	
3,500.0	5.76	333.07	3,489.4	192.9	-98.0	-192.9	0.00	0.00	
3,600.0	5.76	333.07	3,588.9	201.9	-102.6	-201.9	0.00	0.00	
3,700.0	5.76	333.07	3,688.3	210.8	-107.1	-210.8	0.00	0.00	
3,800.0	5.76	333.07	3,787.8	219.8	-111.6	-219.8	0.00	0.00	
3,900.0	5.76	333.07	3,887.3	228.7	-116.2	-228.7	0.00	0.00	
4,000.0	5.76	333.07	3,986.8	237.7	-120.7	-237.7	0.00	0.00	
4,100.0	5.76	333.07	4,086.3	246.6	-125.3	-246.6	0.00	0.00	
4,200.0	5.76	333.07	4,185.8	255.6	-129.8	-255.6	0.00	0.00	
4,300.0	5.76	333.07	4,285.3	264.5	-134.4	-264.5	0.00	0.00	
4,400.0	5.76	333.07	4,384.8	273.5	-138.9	-273.5	0.00	0.00	
4,500.0	5.76	333.07	4,484.3	282.4	-143.5	-282.4	0.00	0.00	
4,585.1	5.76	333.07	4,569.0	290.0	-147.3	-290.0	0.00	0.00	Sussex
4,600.0	5.76	333.07	4,583.8	291.4	-148.0	-291.4	0.00	0.00	
4,700.0	5.76	333.07	4,683.3	300.3	-152.6	-300.3	0.00	0.00	
4,800.0	5.76	333.07	4,782.8	309.3	-157.1	-309.3	0.00	0.00	
4,843.4	5.76	333.07	4,826.0	313.1	-159.1	-313.1	0.00	0.00	Sussex Marker

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Well:	lone 2C-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	5.76	333.07	4,882.3	318.2	-161.7	-318.2	0.00	0.00	
5,000.0	5.76	333.07	4,981.8	327.2	-166.2	-327.2	0.00	0.00	
5,100.0	5.76	333.07	5,081.3	336.1	-170.7	-336.1	0.00	0.00	
5,191.2	5.76	333.07	5,172.0	344.3	-174.9	-344.3	0.00	0.00	Shannon
5,200.0	5.76	333.07	5,180.8	345.0	-175.3	-345.0	0.00	0.00	
5,300.0	5.76	333.07	5,280.3	354.0	-179.8	-354.0	0.00	0.00	
5,400.0	5.76	333.07	5,379.8	362.9	-184.4	-362.9	0.00	0.00	
5,500.0	5.76	333.07	5,479.3	371.9	-188.9	-371.9	0.00	0.00	
5,600.0	5.76	333.07	5,578.8	380.8	-193.5	-380.8	0.00	0.00	
5,700.0	5.76	333.07	5,678.2	389.8	-198.0	-389.8	0.00	0.00	
5,800.0	5.76	333.07	5,777.7	398.7	-202.6	-398.7	0.00	0.00	
5,900.0	5.76	333.07	5,877.2	407.7	-207.1	-407.7	0.00	0.00	
6,000.0	5.76	333.07	5,976.7	416.6	-211.7	-416.6	0.00	0.00	
6,100.0	5.76	333.07	6,076.2	425.6	-216.2	-425.6	0.00	0.00	
6,200.0	5.76	333.07	6,175.7	434.5	-220.7	-434.5	0.00	0.00	
6,300.0	5.76	333.07	6,275.2	443.5	-225.3	-443.5	0.00	0.00	
6,400.0	5.76	333.07	6,374.7	452.4	-229.8	-452.4	0.00	0.00	
6,500.0	5.76	333.07	6,474.2	461.4	-234.4	-461.4	0.00	0.00	
6,523.9	5.76	333.07	6,498.0	463.5	-235.5	-463.5	0.00	0.00	Teepee Buttes
6,600.0	5.76	333.07	6,573.7	470.3	-238.9	-470.3	0.00	0.00	
6,681.1	5.76	333.07	6,654.4	477.6	-242.6	-477.6	0.00	0.00	Start 10° Build/Turn
6,700.0	4.17	321.18	6,673.2	479.0	-243.5	-479.0	10.00	-8.43	
6,800.0	7.24	201.08	6,772.9	475.9	-248.0	-475.9	10.00	3.07	
6,900.0	16.95	188.62	6,870.6	455.6	-252.5	-455.6	10.00	9.71	
7,000.0	26.87	185.17	6,963.3	418.5	-256.7	-418.5	10.00	9.92	
7,100.0	36.83	183.50	7,048.1	366.0	-260.6	-366.0	10.00	9.96	
7,200.0	46.81	182.46	7,122.6	299.5	-264.0	-299.5	10.00	9.98	
7,248.2	51.62	182.07	7,154.0	263.1	-265.4	-263.1	10.00	9.98	Sharon Springs
7,300.0	56.79	181.71	7,184.3	221.0	-266.8	-221.0	10.00	9.98	
7,386.3	65.42	181.20	7,226.0	145.5	-268.7	-145.5	10.00	9.99	Niobrara
7,400.0	66.78	181.12	7,231.5	133.1	-269.0	-133.1	10.00	9.99	
7,500.0	76.77	180.62	7,262.8	38.2	-270.4	-38.2	10.00	9.99	
7,525.2	79.29	180.50	7,268.0	13.6	-270.7	-13.6	10.00	9.99	B Chalk
7,600.0	86.76	180.15	7,277.1	-60.6	-271.1	60.6	10.00	9.99	
7,632.5	90.00	180.00	7,278.0	-93.1	-271.1	93.1	10.00	9.99	LP @ 7632' MD
7,700.0	90.00	180.00	7,278.0	-160.6	-271.1	160.6	0.00	0.00	
7,800.0	90.00	180.00	7,278.0	-260.6	-271.1	260.6	0.00	0.00	
7,900.0	90.00	180.00	7,278.0	-360.6	-271.1	360.6	0.00	0.00	
8,000.0	90.00	180.00	7,278.0	-460.6	-271.1	460.6	0.00	0.00	
8,100.0	90.00	180.00	7,278.0	-560.6	-271.1	560.6	0.00	0.00	
8,200.0	90.00	180.00	7,278.0	-660.6	-271.1	660.6	0.00	0.00	
8,300.0	90.00	180.00	7,278.0	-760.6	-271.1	760.6	0.00	0.00	
8,400.0	90.00	180.00	7,278.0	-860.6	-271.1	860.6	0.00	0.00	
8,500.0	90.00	180.00	7,278.0	-960.6	-271.1	960.6	0.00	0.00	
8,600.0	90.00	180.00	7,278.0	-1,060.6	-271.1	1,060.6	0.00	0.00	
8,700.0	90.00	180.00	7,278.0	-1,160.6	-271.1	1,160.6	0.00	0.00	
8,800.0	90.00	180.00	7,278.0	-1,260.6	-271.1	1,260.6	0.00	0.00	
8,900.0	90.00	180.00	7,278.0	-1,360.6	-271.1	1,360.6	0.00	0.00	
9,000.0	90.00	180.00	7,278.0	-1,460.6	-271.1	1,460.6	0.00	0.00	
9,100.0	90.00	180.00	7,278.0	-1,560.6	-271.1	1,560.6	0.00	0.00	
9,200.0	90.00	180.00	7,278.0	-1,660.6	-271.1	1,660.6	0.00	0.00	
9,300.0	90.00	180.00	7,278.0	-1,760.6	-271.1	1,760.6	0.00	0.00	

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 (Ione)	North Reference:	True
Well:	Ione 2C-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
9,400.0	90.00	180.00	7,278.0	-1,860.6	-271.1	1,860.6	0.00	0.00	
9,500.0	90.00	180.00	7,278.0	-1,960.6	-271.1	1,960.6	0.00	0.00	
9,600.0	90.00	180.00	7,278.0	-2,060.6	-271.1	2,060.6	0.00	0.00	
9,700.0	90.00	180.00	7,278.0	-2,160.6	-271.1	2,160.6	0.00	0.00	
9,800.0	90.00	180.00	7,278.0	-2,260.6	-271.1	2,260.6	0.00	0.00	
9,900.0	90.00	180.00	7,278.0	-2,360.6	-271.1	2,360.6	0.00	0.00	
10,000.0	90.00	180.00	7,278.0	-2,460.6	-271.1	2,460.6	0.00	0.00	
10,100.0	90.00	180.00	7,278.0	-2,560.6	-271.1	2,560.6	0.00	0.00	
10,200.0	90.00	180.00	7,278.0	-2,660.6	-271.1	2,660.6	0.00	0.00	
10,300.0	90.00	180.00	7,278.0	-2,760.6	-271.1	2,760.6	0.00	0.00	
10,400.0	90.00	180.00	7,278.0	-2,860.6	-271.1	2,860.6	0.00	0.00	
10,500.0	90.00	180.00	7,278.0	-2,960.6	-271.1	2,960.6	0.00	0.00	
10,600.0	90.00	180.00	7,278.0	-3,060.6	-271.1	3,060.6	0.00	0.00	
10,700.0	90.00	180.00	7,278.0	-3,160.6	-271.1	3,160.6	0.00	0.00	
10,800.0	90.00	180.00	7,278.0	-3,260.6	-271.1	3,260.6	0.00	0.00	
10,900.0	90.00	180.00	7,278.0	-3,360.6	-271.1	3,360.6	0.00	0.00	
11,000.0	90.00	180.00	7,278.0	-3,460.6	-271.1	3,460.6	0.00	0.00	
11,100.0	90.00	180.00	7,278.0	-3,560.6	-271.1	3,560.6	0.00	0.00	
11,200.0	90.00	180.00	7,278.0	-3,660.6	-271.1	3,660.6	0.00	0.00	
11,300.0	90.00	180.00	7,278.0	-3,760.6	-271.1	3,760.6	0.00	0.00	
11,400.0	90.00	180.00	7,278.0	-3,860.6	-271.1	3,860.6	0.00	0.00	
11,500.0	90.00	180.00	7,278.0	-3,960.6	-271.1	3,960.6	0.00	0.00	
11,600.0	90.00	180.00	7,278.0	-4,060.6	-271.1	4,060.6	0.00	0.00	
11,700.0	90.00	180.00	7,278.0	-4,160.6	-271.1	4,160.6	0.00	0.00	
11,800.0	90.00	180.00	7,278.0	-4,260.6	-271.1	4,260.6	0.00	0.00	
11,852.5	90.00	180.00	7,278.0	-4,313.1	-271.1	4,313.1	0.00	0.00	PBHL @ 11852' MD - Ione 2C-2H PBHL (460' F

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									
Ione 2C-2H PBHL (460'	0.00	0.00	7,278.0	-4,313.1	-175.1	1,302,484.23	3,209,782.52	40.161270	-104.749426
- plan misses target center by 96.0ft at 11852.5ft MD (7278.0 TVD, -4313.1 N, -271.1 E)									
- Point									
Ione 2C-2H PBHL (460'	0.00	0.00	7,278.0	-4,313.1	-271.1	1,302,483.42	3,209,686.52	40.161270	-104.749770
- plan hits target center									
- Point									

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Planning Report

Database: USA EDM 5000 Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: DJ Wattenberg
Site: NWNW S2-T2N-R66W (lone)
Well: lone 2C-2H
Wellbore: HZ
Design: Plan #1

Local Co-ordinate Reference: Well lone 2C-2H
TVD Reference: KB=13' @ 5059.0ft (Original Well Elev)
MD Reference: KB=13' @ 5059.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,585.1	4,569.0	Sussex			
4,843.4	4,826.0	Sussex Marker			
5,191.2	5,172.0	Shannon			
6,523.9	6,498.0	Teepee Buttes			
7,248.2	7,154.0	Sharon Springs			
7,386.3	7,226.0	Niobrara			
7,525.2	7,268.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,200.0	1,200.0	0.0	0.0	KOP @ 1200' MD
1,488.0	1,487.5	12.9	-6.6	EOB @ 1488' MD; 5.76° Inc
6,681.1	6,654.4	477.6	-242.6	Start 10° Build/Turn
7,632.5	7,278.0	-93.1	-271.1	LP @ 7632' MD
11,852.5	7,278.0	-4,313.1	-271.1	PBHL @ 11852' MD

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNE S2-T2N-R66W (lone)

lone 2C-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 2C-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 2C-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	11,852.5	Plan #1 (HZ)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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	10,491.1	7,256.0	444.6	377.0	6.571	CC
lone #13-2 (Existing) - DD - Plan #1	10,500.0	7,256.0	444.7	376.9	6.557	ES, SF
lone #21-2 (Existing) - DD - Plan #1						Out of range
lone #22-2 (Existing) - DD - Plan #1						Out of range
lone #23-2 (Existing) - DD - Plan #1						Out of range
lone #24-2 (Existing) - DD - Plan #1						Out of range
lone #3 (Existing) - DD - DD	0.0	0.0	19.7			
lone #3 (Existing) - DD - DD	1,537.7	1,535.0	20.3	16.3	5.039	ES
lone #3 (Existing) - DD - DD	1,600.0	1,597.0	21.1	16.9	5.015	SF
lone #3 (Existing) - DD - Plan #1	1,425.7	1,423.5	17.4	12.5	3.532	CC, ES, 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	19.6	18.9	29.967	CC, ES
lone 2A-2H - HZ - Plan #1	400.0	398.5	26.0	24.7	19.278	SF
lone 2B-2H - HZ - Plan #1	400.0	400.0	11.2	9.8	8.274	CC, ES
lone 2B-2H - HZ - Plan #1	11,852.5	12,132.8	478.4	345.8	3.608	SF
lone 2D-2H - HZ - Plan #1	800.0	800.0	11.2	8.4	4.069	CC
lone 2D-2H - HZ - Plan #1	900.0	899.9	11.5	8.4	3.698	ES
lone 2D-2H - HZ - Plan #1	11,852.5	12,083.5	405.1	276.5	3.150	SF
lone 2E-2H - HZ - Plan #1	600.0	600.0	19.6	17.5	9.547	CC, ES
lone 2E-2H - HZ - Plan #1	700.0	699.5	20.7	18.3	8.614	SF
lone 2F-2H - HZ - Plan #1	400.0	400.0	30.7	29.4	22.755	CC, ES
lone 2F-2H - HZ - Plan #1	600.0	597.9	36.8	34.7	17.884	SF
lone 2G-2H - HZ - Plan #1	200.0	200.0	39.1	38.5	59.934	CC, ES
lone 2G-2H - HZ - Plan #1	600.0	592.6	65.1	63.0	30.847	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						Out of range
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 Ione 2C-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 2C-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												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
NWNE S2-T2N-R66W (Ione) - Ione #13-2 (Existing) - DD - Plan #1													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre +N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)			
10,300.0	7,278.0	7,256.0	7,256.0	52.0	12.6	90.00	-2,951.8	-715.7	484.0	419.6	64.42	7.513	
10,400.0	7,278.0	7,256.0	7,256.0	53.7	12.6	90.00	-2,951.8	-715.7	453.9	387.8	66.12	6.865	
10,491.1	7,278.0	7,256.0	7,256.0	55.2	12.6	90.00	-2,951.8	-715.7	444.6	377.0	67.67	6.571 CC	
10,500.0	7,278.0	7,256.0	7,256.0	55.4	12.6	90.00	-2,951.8	-715.7	444.7	376.9	67.82	6.557 ES, SF	
10,600.0	7,278.0	7,256.0	7,256.0	57.1	12.6	90.00	-2,951.8	-715.7	457.8	388.2	69.52	6.584	
10,700.0	7,278.0	7,256.0	7,256.0	58.8	12.6	90.00	-2,951.8	-715.7	491.2	420.0	71.23	6.896	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.7					
100.0	100.0	97.7	97.7	0.2	0.1	-89.48	0.2	-20.3	20.3	20.1	0.22	90.459		
200.0	200.0	197.9	197.8	0.3	0.2	-88.00	0.7	-21.4	21.4	20.9	0.49	44.107		
300.0	300.0	298.0	297.9	0.5	0.2	-86.08	1.5	-21.9	21.9	21.2	0.75	29.335		
400.0	400.0	397.9	397.9	0.7	0.3	-85.65	1.7	-22.3	22.4	21.4	1.01	22.169		
500.0	500.0	497.9	497.8	0.8	0.4	-85.42	1.8	-23.0	23.0	21.8	1.27	18.129		
600.0	600.0	597.9	597.9	1.0	0.5	-83.47	2.7	-23.5	23.7	22.2	1.53	15.458		
700.0	700.0	697.8	697.8	1.2	0.6	-81.88	3.4	-24.2	24.4	22.6	1.79	13.601		
800.0	800.0	797.8	797.8	1.4	0.7	-80.58	4.1	-24.9	25.3	23.2	2.06	12.293		
900.0	900.0	897.8	897.8	1.5	0.8	-79.03	5.0	-25.7	26.1	23.8	2.32	11.276		
1,000.0	1,000.0	997.8	997.8	1.7	0.9	-77.60	5.8	-26.3	26.9	24.3	2.58	10.433		
1,100.0	1,100.0	1,097.9	1,097.8	1.9	0.9	-76.09	6.6	-26.8	27.6	24.8	2.84	9.724		
1,200.0	1,200.0	1,198.3	1,198.2	2.1	1.0	-75.72	6.8	-26.8	27.6	24.5	3.10	8.898		
1,300.0	1,300.0	1,298.0	1,298.0	2.2	1.1	-50.96	7.0	-26.3	26.1	22.8	3.37	7.759		
1,400.0	1,399.8	1,397.8	1,397.7	2.4	1.2	-59.18	7.8	-26.5	23.3	19.7	3.63	6.426		
1,500.0	1,499.5	1,497.5	1,497.4	2.6	1.3	-79.06	8.3	-26.9	20.6	16.7	3.92	5.257		
1,537.7	1,537.0	1,535.0	1,534.9	2.7	1.3	-88.98	8.5	-27.1	20.3	16.3	4.03	5.039 ES		
1,600.0	1,598.9	1,597.0	1,597.0	2.8	1.4	-104.93	8.8	-27.3	21.1	16.9	4.20	5.015 SF		
1,700.0	1,698.4	1,696.6	1,696.5	3.0	1.5	-125.70	9.5	-27.7	25.2	20.7	4.47	5.631		
1,800.0	1,797.9	1,796.2	1,796.1	3.2	1.6	-139.43	10.1	-28.1	31.6	26.9	4.73	6.682		
1,900.0	1,897.4	1,895.6	1,895.5	3.5	1.6	-147.83	10.6	-28.8	39.4	34.4	4.98	7.899		
2,000.0	1,996.9	1,995.3	1,995.2	3.7	1.7	-153.23	11.0	-29.6	47.7	42.5	5.24	9.110		
2,100.0	2,096.4	2,094.9	2,094.8	3.9	1.8	-157.06	11.6	-30.4	56.2	50.7	5.50	10.223		
2,200.0	2,195.9	2,194.6	2,194.5	4.1	1.9	-159.65	12.3	-31.4	64.8	59.0	5.76	11.245		
2,300.0	2,295.4	2,293.9	2,293.8	4.4	2.0	-161.48	12.8	-32.6	73.5	67.5	6.02	12.215		
2,400.0	2,394.9	2,393.5	2,393.4	4.6	2.1	-162.85	13.2	-33.9	82.5	76.3	6.28	13.138		
2,500.0	2,494.4	2,492.9	2,492.7	4.8	2.2	-163.87	13.4	-35.3	91.7	85.1	6.55	14.004		
2,600.0	2,593.9	2,592.8	2,592.7	5.1	2.3	-164.75	13.7	-36.6	100.8	94.0	6.81	14.802		
2,700.0	2,693.4	2,692.6	2,692.4	5.3	2.3	-165.47	14.3	-38.0	109.6	102.5	7.07	15.500		
2,800.0	2,792.9	2,792.4	2,792.2	5.5	2.4	-165.99	15.0	-39.6	118.3	111.0	7.34	16.131		
2,900.0	2,892.4	2,892.0	2,891.8	5.8	2.5	-166.38	15.7	-41.4	127.0	119.4	7.60	16.708		
3,000.0	2,991.9	2,991.6	2,991.4	6.0	2.6	-166.62	16.4	-43.4	135.6	127.8	7.86	17.246		
3,100.0	3,091.4	3,091.2	3,091.0	6.2	2.7	-166.89	17.1	-45.2	144.3	136.1	8.13	17.749		
3,200.0	3,190.9	3,191.3	3,191.1	6.5	2.8	-167.24	18.0	-46.9	152.8	144.4	8.39	18.204		
3,300.0	3,290.4	3,290.4	3,290.2	6.7	2.9	-167.56	19.0	-48.4	161.3	152.6	8.66	18.630		
3,400.0	3,389.9	3,390.9	3,390.6	7.0	3.0	-167.86	19.9	-50.0	169.7	160.8	8.92	19.028		
3,500.0	3,489.4	3,491.1	3,490.8	7.2	3.1	-168.27	21.5	-51.3	177.8	168.6	9.18	19.360		
3,600.0	3,588.9	3,592.1	3,591.8	7.5	3.1	-168.54	23.3	-53.1	185.3	175.9	9.45	19.620		
3,700.0	3,688.3	3,693.0	3,692.6	7.7	3.2	-168.65	25.8	-55.5	192.2	182.5	9.71	19.793		
3,800.0	3,787.8	3,791.7	3,791.2	7.9	3.3	-168.70	28.2	-57.9	199.1	189.1	9.98	19.953		
3,900.0	3,887.3	3,890.7	3,890.2	8.2	3.4	-168.72	30.1	-60.4	206.4	196.1	10.24	20.153		
4,000.0	3,986.8	3,990.1	3,989.5	8.4	3.5	-168.80	31.8	-62.6	214.0	203.5	10.51	20.366		
4,100.0	4,086.3	4,089.1	4,088.5	8.7	3.6	-168.81	33.3	-65.0	221.8	211.0	10.77	20.589		
4,200.0	4,185.8	4,188.4	4,187.8	8.9	3.7	-168.86	34.5	-67.2	229.8	218.8	11.04	20.823		
4,300.0	4,285.3	4,288.5	4,287.8	9.2	3.8	-168.91	35.8	-69.3	237.9	226.6	11.30	21.046		
4,400.0	4,384.8	4,388.2	4,387.6	9.4	3.9	-168.96	37.1	-71.5	245.8	234.2	11.57	21.250		
4,500.0	4,484.3	4,487.3	4,486.6	9.6	3.9	-169.04	38.5	-73.5	253.8	242.0	11.83	21.454		
4,600.0	4,583.8	4,587.2	4,586.5	9.9	4.0	-169.16	39.8	-75.3	262.0	249.9	12.09	21.658		
4,700.0	4,683.3	4,686.3	4,685.5	10.1	4.1	-169.37	41.1	-76.6	270.1	257.8	12.36	21.861		
4,800.0	4,782.8	4,785.9	4,785.2	10.4	4.2	-169.66	42.5	-77.5	278.4	265.8	12.62	22.070		
4,900.0	4,882.3	4,885.6	4,884.8	10.6	4.3	-169.98	43.9	-78.1	286.8	273.9	12.88	22.271		
5,000.0	4,981.8	4,984.5	4,983.7	10.9	4.4	-170.32	45.3	-78.5	295.2	282.0	13.13	22.474		

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 2C-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 2C-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			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,081.3	5,084.2	5,083.4	11.1	4.5	-170.63	46.6	-78.9	303.8	290.4	13.39	22.681		
5,200.0	5,180.8	5,182.9	5,182.1	11.4	4.6	-170.94	47.8	-79.2	312.4	298.8	13.65	22.888		
5,300.0	5,280.3	5,281.4	5,280.7	11.6	4.6	-171.25	48.7	-79.3	321.5	307.6	13.91	23.112		
5,400.0	5,379.8	5,379.0	5,378.2	11.8	4.7	-171.53	49.1	-79.4	330.9	316.8	14.17	23.359		
5,500.0	5,479.3	5,478.4	5,477.6	12.1	4.8	-171.77	49.2	-79.4	340.8	326.4	14.43	23.623		
5,600.0	5,578.8	5,577.1	5,576.3	12.3	4.9	-171.98	49.2	-79.6	350.7	336.0	14.69	23.880		
5,700.0	5,678.2	5,675.5	5,674.7	12.6	5.0	-172.18	48.9	-79.6	360.9	346.0	14.95	24.149		
5,800.0	5,777.7	5,773.5	5,772.7	12.8	5.1	-172.38	48.3	-79.5	371.5	356.3	15.20	24.432		
5,900.0	5,877.2	5,871.9	5,871.1	13.1	5.2	-172.56	47.3	-79.2	382.4	366.9	15.46	24.728		
6,000.0	5,976.7	5,970.3	5,969.5	13.3	5.2	-172.65	46.0	-79.5	393.5	377.8	15.72	25.025		
6,100.0	6,076.2	6,068.6	6,067.7	13.6	5.3	-172.59	44.1	-80.6	404.9	388.9	15.99	25.325		
6,200.0	6,175.7	6,169.4	6,168.5	13.8	5.4	-172.36	41.6	-82.9	416.4	400.1	16.26	25.610		
6,300.0	6,275.2	6,273.2	6,272.2	14.0	5.5	-171.98	39.5	-86.6	427.1	410.6	16.54	25.832		
6,400.0	6,374.7	6,375.1	6,374.0	14.3	5.6	-171.60	38.2	-90.7	437.0	420.2	16.81	25.993		
6,500.0	6,474.2	6,473.1	6,471.9	14.5	5.7	-171.20	37.0	-95.1	446.7	429.6	17.08	26.147		
6,600.0	6,573.7	6,571.9	6,570.6	14.8	5.8	-170.86	35.5	-99.0	456.8	439.5	17.36	26.318		
6,700.0	6,673.2	6,673.1	6,671.7	15.0	5.9	-158.66	34.1	-103.0	466.5	448.9	17.63	26.461		
6,800.0	6,772.9	6,776.7	6,775.2	15.1	6.0	-38.96	33.2	-107.4	464.5	446.7	17.78	26.122		
6,900.0	6,870.6	6,876.8	6,875.3	15.0	6.1	-28.23	33.1	-111.6	445.3	427.6	17.75	25.091		
7,000.0	6,963.3	6,971.7	6,970.0	14.8	6.1	-28.20	33.5	-115.7	410.1	392.6	17.59	23.322		
7,100.0	7,048.1	7,057.1	7,055.3	14.6	6.2	-32.44	34.0	-119.9	360.6	343.2	17.42	20.699		
7,200.0	7,122.6	7,131.6	7,129.7	14.3	6.3	-41.76	34.7	-123.3	300.0	282.4	17.54	17.098		
7,300.0	7,184.3	7,193.9	7,192.0	14.0	6.3	-57.93	35.3	-126.6	233.0	214.7	18.27	12.754		
7,400.0	7,231.5	7,240.5	7,238.5	13.9	6.4	-78.39	35.6	-129.4	170.5	151.4	19.12	8.919		
7,500.0	7,262.8	7,271.7	7,269.6	13.9	6.4	-93.44	35.7	-131.3	139.4	120.0	19.42	7.181		
7,503.2	7,263.5	7,272.4	7,270.3	13.9	6.4	-93.73	35.7	-131.3	139.4	120.0	19.42	7.176		
7,600.0	7,277.1	7,286.1	7,284.0	14.1	6.4	-95.94	35.7	-132.2	169.2	149.5	19.66	8.605		
7,700.0	7,278.0	7,287.1	7,285.0	14.6	6.4	-93.71	35.7	-132.3	240.6	220.4	20.15	11.943		
7,800.0	7,278.0	7,287.1	7,285.0	15.2	6.4	-93.71	35.7	-132.3	327.3	306.5	20.81	15.727		
7,900.0	7,278.0	7,287.1	7,285.0	16.0	6.4	-93.72	35.7	-132.3	420.0	398.3	21.65	19.398		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.7					
100.0	100.0	98.0	98.0	0.2	0.1	-89.95	0.0	-19.6	19.6	19.3	0.30	65.811		
200.0	200.0	198.0	198.0	0.3	0.3	-89.95	0.0	-19.6	19.6	18.9	0.65	30.291		
300.0	300.0	298.0	298.0	0.5	0.5	-89.95	0.0	-19.6	19.6	18.6	0.99	19.663		
400.0	400.0	398.0	398.0	0.7	0.7	-89.95	0.0	-19.6	19.6	18.2	1.34	14.555		
500.0	500.0	498.0	498.0	0.8	0.8	-89.95	0.0	-19.6	19.6	17.9	1.69	11.554		
600.0	600.0	598.0	598.0	1.0	1.0	-89.95	0.0	-19.6	19.6	17.5	2.04	9.579		
700.0	700.0	698.0	698.0	1.2	1.2	-89.95	0.0	-19.6	19.6	17.2	2.39	8.181		
800.0	800.0	798.0	798.0	1.4	1.4	-89.95	0.0	-19.6	19.6	16.8	2.74	7.139		
900.0	900.0	898.0	898.0	1.5	1.5	-89.95	0.0	-19.6	19.6	16.5	3.09	6.332		
1,000.0	1,000.0	998.0	998.0	1.7	1.7	-89.95	0.0	-19.6	19.6	16.1	3.44	5.689		
1,100.0	1,100.0	1,098.0	1,098.0	1.9	1.9	-89.95	0.0	-19.6	19.6	15.8	3.79	5.165		
1,200.0	1,200.0	1,198.0	1,198.0	2.1	2.1	-89.95	0.0	-19.6	19.6	15.4	4.14	4.729		
1,300.0	1,300.0	1,298.0	1,298.0	2.2	2.2	-67.77	0.0	-19.6	18.8	14.3	4.49	4.198		
1,400.0	1,399.8	1,397.8	1,397.8	2.4	2.4	-83.81	0.0	-19.6	17.5	12.7	4.84	3.622		
1,425.7	1,425.5	1,423.5	1,423.5	2.5	2.5	-90.00	0.0	-19.6	17.4	12.5	4.94	3.532 CC, ES, SF		
1,500.0	1,499.5	1,497.5	1,497.5	2.6	2.6	-111.20	0.0	-19.6	18.7	13.5	5.20	3.597		
1,600.0	1,598.9	1,596.9	1,596.9	2.8	2.8	-133.85	0.0	-19.6	24.2	18.7	5.55	4.366		
1,700.0	1,698.4	1,696.4	1,696.4	3.0	2.9	-146.89	0.0	-19.6	32.0	26.1	5.89	5.435		
1,800.0	1,797.9	1,795.9	1,795.9	3.2	3.1	-154.60	0.0	-19.6	40.8	34.6	6.24	6.544		
1,900.0	1,897.4	1,895.4	1,895.4	3.5	3.3	-159.53	0.0	-19.6	50.1	43.5	6.58	7.608		
2,000.0	1,996.9	1,994.9	1,994.9	3.7	3.5	-162.91	0.0	-19.6	59.6	52.7	6.93	8.601		
2,100.0	2,096.4	2,094.4	2,094.4	3.9	3.6	-165.35	0.0	-19.6	69.2	62.0	7.27	9.520		
2,200.0	2,195.9	2,193.9	2,193.9	4.1	3.8	-167.19	0.0	-19.6	79.0	71.4	7.62	10.367		
2,300.0	2,295.4	2,293.4	2,293.4	4.4	4.0	-168.62	0.0	-19.6	88.8	80.8	7.97	11.148		
2,400.0	2,394.9	2,392.9	2,392.9	4.6	4.2	-169.77	0.0	-19.6	98.7	90.4	8.31	11.869		
2,500.0	2,494.4	2,492.4	2,492.4	4.8	4.3	-170.71	0.0	-19.6	108.6	99.9	8.66	12.536		
2,600.0	2,593.9	2,591.9	2,591.9	5.1	4.5	-171.50	0.0	-19.6	118.5	109.5	9.01	13.154		
2,700.0	2,693.4	2,691.4	2,691.4	5.3	4.7	-172.16	0.0	-19.6	128.4	119.1	9.36	13.727		
2,800.0	2,792.9	2,790.9	2,790.9	5.5	4.8	-172.73	0.0	-19.6	138.4	128.7	9.70	14.262		
2,900.0	2,892.4	2,890.4	2,890.4	5.8	5.0	-173.22	0.0	-19.6	148.3	138.3	10.05	14.760		
3,000.0	2,991.9	2,989.9	2,989.9	6.0	5.2	-173.65	0.0	-19.6	158.3	147.9	10.40	15.226		
3,100.0	3,091.4	3,089.4	3,089.4	6.2	5.4	-174.02	0.0	-19.6	168.3	157.5	10.74	15.662		
3,200.0	3,190.9	3,188.9	3,188.9	6.5	5.5	-174.36	0.0	-19.6	178.3	167.2	11.09	16.072		
3,300.0	3,290.4	3,288.4	3,288.4	6.7	5.7	-174.66	0.0	-19.6	188.3	176.8	11.44	16.457		
3,400.0	3,389.9	3,387.9	3,387.9	7.0	5.9	-174.93	0.0	-19.6	198.3	186.5	11.79	16.820		
3,500.0	3,489.4	3,487.4	3,487.4	7.2	6.1	-175.17	0.0	-19.6	208.3	196.1	12.13	17.162		
3,600.0	3,588.9	3,586.9	3,586.9	7.5	6.2	-175.40	0.0	-19.6	218.3	205.8	12.48	17.485		
3,700.0	3,688.3	3,686.3	3,686.3	7.7	6.4	-175.60	0.0	-19.6	228.3	215.4	12.83	17.792		
3,800.0	3,787.8	3,785.8	3,785.8	7.9	6.6	-175.78	0.0	-19.6	238.3	225.1	13.18	18.082		
3,900.0	3,887.3	3,885.3	3,885.3	8.2	6.8	-175.95	0.0	-19.6	248.3	234.8	13.53	18.357		
4,000.0	3,986.8	3,984.8	3,984.8	8.4	6.9	-176.11	0.0	-19.6	258.3	244.4	13.87	18.619		
4,100.0	4,086.3	4,084.3	4,084.3	8.7	7.1	-176.26	0.0	-19.6	268.3	254.1	14.22	18.868		
4,200.0	4,185.8	4,183.8	4,183.8	8.9	7.3	-176.39	0.0	-19.6	278.3	263.8	14.57	19.105		
4,300.0	4,285.3	4,283.3	4,283.3	9.2	7.4	-176.52	0.0	-19.6	288.3	273.4	14.92	19.332		
4,400.0	4,384.8	4,382.8	4,382.8	9.4	7.6	-176.63	0.0	-19.6	298.4	283.1	15.26	19.548		
4,500.0	4,484.3	4,482.3	4,482.3	9.6	7.8	-176.74	0.0	-19.6	308.4	292.8	15.61	19.754		
4,600.0	4,583.8	4,581.8	4,581.8	9.9	8.0	-176.85	0.0	-19.6	318.4	302.4	15.96	19.952		
4,700.0	4,683.3	4,681.3	4,681.3	10.1	8.1	-176.94	0.0	-19.6	328.4	312.1	16.31	20.141		
4,800.0	4,782.8	4,780.8	4,780.8	10.4	8.3	-177.03	0.0	-19.6	338.4	321.8	16.65	20.322		
4,900.0	4,882.3	4,880.3	4,880.3	10.6	8.5	-177.12	0.0	-19.6	348.5	331.5	17.00	20.496		
5,000.0	4,981.8	4,979.8	4,979.8	10.9	8.7	-177.20	0.0	-19.6	358.5	341.1	17.35	20.663		

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 2C-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 2C-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			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,100.0	5,081.3	5,079.3	5,079.3	11.1	8.8	-177.27	0.0	-19.6	368.5	350.8	17.70	20.824		
5,200.0	5,180.8	5,178.8	5,178.8	11.4	9.0	-177.35	0.0	-19.6	378.5	360.5	18.04	20.978		
5,300.0	5,280.3	5,278.3	5,278.3	11.6	9.2	-177.42	0.0	-19.6	388.6	370.2	18.39	21.126		
5,400.0	5,379.8	5,377.8	5,377.8	11.8	9.4	-177.48	0.0	-19.6	398.6	379.9	18.74	21.269		
5,500.0	5,479.3	5,477.3	5,477.3	12.1	9.5	-177.54	0.0	-19.6	408.6	389.5	19.09	21.407		
5,600.0	5,578.8	5,576.8	5,576.8	12.3	9.7	-177.60	0.0	-19.6	418.7	399.2	19.44	21.540		
5,700.0	5,678.2	5,676.2	5,676.2	12.6	9.9	-177.66	0.0	-19.6	428.7	408.9	19.78	21.668		
5,800.0	5,777.7	5,775.7	5,775.7	12.8	10.1	-177.71	0.0	-19.6	438.7	418.6	20.13	21.792		
5,900.0	5,877.2	5,875.2	5,875.2	13.1	10.2	-177.76	0.0	-19.6	448.7	428.3	20.48	21.912		
6,000.0	5,976.7	5,974.7	5,974.7	13.3	10.4	-177.81	0.0	-19.6	458.8	437.9	20.83	22.028		
6,100.0	6,076.2	6,074.2	6,074.2	13.6	10.6	-177.86	0.0	-19.6	468.8	447.6	21.17	22.140		
6,200.0	6,175.7	6,173.7	6,173.7	13.8	10.7	-177.90	0.0	-19.6	478.8	457.3	21.52	22.248		
6,300.0	6,275.2	6,273.2	6,273.2	14.0	10.9	-177.95	0.0	-19.6	488.9	467.0	21.87	22.353		
6,400.0	6,374.7	6,372.7	6,372.7	14.3	11.1	-177.99	0.0	-19.6	498.9	476.7	22.22	22.454		
7,000.0	6,963.3	6,961.3	6,961.3	14.8	12.1	-37.83	0.0	-19.6	481.1	458.0	23.06	20.865		
7,100.0	7,048.1	7,046.1	7,046.1	14.6	12.3	-43.14	0.0	-19.6	438.2	415.4	22.84	19.186		
7,200.0	7,122.6	7,120.6	7,120.6	14.3	12.4	-52.45	0.0	-19.6	386.6	363.4	23.18	16.673		
7,300.0	7,184.3	7,182.3	7,182.3	14.0	12.5	-65.26	0.0	-19.6	331.7	307.4	24.21	13.697		
7,400.0	7,231.5	7,229.5	7,229.5	13.9	12.6	-78.66	0.0	-19.6	282.7	257.5	25.23	11.203		
7,500.0	7,262.8	7,260.8	7,260.8	13.9	12.6	-88.15	0.0	-19.6	253.7	228.0	25.69	9.875		
7,537.0	7,270.1	7,268.1	7,268.1	14.0	12.7	-90.00	0.0	-19.6	251.2	225.4	25.82	9.729		
7,600.0	7,277.1	7,275.1	7,275.1	14.1	12.7	-90.79	0.0	-19.6	258.7	232.7	25.99	9.953		
7,700.0	7,278.0	7,276.0	7,276.0	14.6	12.7	-90.00	0.0	-19.6	298.5	272.0	26.46	11.280		
7,800.0	7,278.0	7,276.0	7,276.0	15.2	12.7	-90.00	0.0	-19.6	362.2	335.1	27.13	13.352		
7,900.0	7,278.0	7,276.0	7,276.0	16.0	12.7	-90.00	0.0	-19.6	439.7	411.7	27.97	15.720		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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			Distance				Total	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-90.01	0.0	-19.6	19.6	19.3	0.30	64.412		
200.0	200.0	200.0	200.0	0.3	0.3	-90.01	0.0	-19.6	19.6	18.9	0.65	29.967 CC, ES		
300.0	300.0	299.3	299.3	0.5	0.5	-88.03	0.7	-21.1	21.1	20.1	1.00	21.128		
400.0	400.0	398.5	398.3	0.7	0.7	-83.55	2.9	-25.8	26.0	24.7	1.35	19.278 SF		
500.0	500.0	497.1	496.6	0.8	0.9	-78.96	6.5	-33.5	34.3	32.6	1.70	20.190		
600.0	600.0	595.0	593.8	1.0	1.2	-75.35	11.6	-44.2	46.1	44.0	2.05	22.431		
700.0	700.0	692.0	689.6	1.2	1.5	-72.76	17.9	-57.7	61.3	58.9	2.42	25.339		
800.0	800.0	790.2	786.3	1.4	1.8	-71.02	25.2	-73.3	78.7	75.9	2.79	28.150		
900.0	900.0	888.7	883.2	1.5	2.1	-69.90	32.5	-88.9	96.1	92.9	3.17	30.266		
1,000.0	1,000.0	987.1	980.2	1.7	2.5	-69.12	39.8	-104.4	113.5	110.0	3.56	31.908		
1,100.0	1,100.0	1,085.6	1,077.1	1.9	2.8	-68.55	47.2	-120.0	131.0	127.1	3.94	33.216		
1,200.0	1,200.0	1,184.1	1,174.1	2.1	3.2	-68.11	54.5	-135.6	148.5	144.1	4.33	34.280		
1,300.0	1,300.0	1,282.7	1,271.2	2.2	3.5	-41.03	61.8	-151.3	164.6	160.2	4.47	36.867		
1,400.0	1,399.8	1,381.8	1,368.7	2.4	3.9	-41.64	69.2	-167.0	178.2	173.4	4.82	36.974		
1,500.0	1,499.5	1,481.1	1,466.5	2.6	4.2	-42.90	76.6	-182.7	189.3	184.1	5.19	36.510		
1,600.0	1,598.9	1,580.4	1,564.3	2.8	4.6	-44.40	84.0	-198.4	199.6	194.0	5.56	35.875		
1,700.0	1,698.4	1,679.7	1,662.1	3.0	4.9	-45.76	91.4	-214.2	209.9	204.0	5.95	35.289		
1,800.0	1,797.9	1,779.1	1,759.9	3.2	5.3	-46.99	98.7	-229.9	220.4	214.0	6.34	34.745		
1,900.0	1,897.4	1,878.4	1,857.7	3.5	5.6	-48.11	106.1	-245.7	230.9	224.2	6.74	34.239		
2,000.0	1,996.9	1,977.8	1,955.5	3.7	6.0	-49.14	113.5	-261.4	241.5	234.4	7.15	33.770		
2,100.0	2,096.4	2,077.1	2,053.3	3.9	6.3	-50.07	120.9	-277.1	252.2	244.7	7.57	33.333		
2,200.0	2,195.9	2,176.5	2,151.1	4.1	6.7	-50.93	128.3	-292.9	263.0	255.0	7.99	32.926		
2,300.0	2,295.4	2,275.8	2,249.0	4.4	7.0	-51.72	135.7	-308.6	273.8	265.4	8.41	32.547		
2,400.0	2,394.9	2,375.2	2,346.8	4.6	7.4	-52.45	143.1	-324.4	284.7	275.8	8.84	32.194		
2,500.0	2,494.4	2,474.5	2,444.6	4.8	7.7	-53.13	150.5	-340.1	295.6	286.3	9.28	31.864		
2,600.0	2,593.9	2,573.9	2,542.4	5.1	8.1	-53.76	157.9	-355.8	306.5	296.8	9.71	31.557		
2,700.0	2,693.4	2,673.2	2,640.2	5.3	8.4	-54.35	165.2	-371.6	317.5	307.4	10.15	31.269		
2,800.0	2,792.9	2,772.5	2,738.0	5.5	8.8	-54.89	172.6	-387.3	328.5	317.9	10.60	30.999		
2,900.0	2,892.4	2,871.9	2,835.8	5.8	9.1	-55.41	180.0	-403.1	339.5	328.5	11.04	30.747		
3,000.0	2,991.9	2,971.2	2,933.6	6.0	9.5	-55.89	187.4	-418.8	350.6	339.1	11.49	30.510		
3,100.0	3,091.4	3,070.6	3,031.5	6.2	9.8	-56.34	194.8	-434.5	361.7	349.8	11.94	30.287		
3,200.0	3,190.9	3,169.9	3,129.3	6.5	10.2	-56.76	202.2	-450.3	372.8	360.4	12.39	30.077		
3,300.0	3,290.4	3,269.3	3,227.1	6.7	10.5	-57.16	209.6	-466.0	383.9	371.1	12.85	29.880		
3,400.0	3,389.9	3,368.6	3,324.9	7.0	10.9	-57.53	217.0	-481.7	395.1	381.8	13.30	29.694		
3,500.0	3,489.4	3,468.0	3,422.7	7.2	11.2	-57.89	224.4	-497.5	406.2	392.5	13.76	29.518		
3,600.0	3,588.9	3,567.3	3,520.5	7.5	11.6	-58.23	231.7	-513.2	417.4	403.2	14.22	29.352		
3,700.0	3,688.3	3,666.6	3,618.3	7.7	11.9	-58.54	239.1	-529.0	428.6	413.9	14.68	29.194		
3,800.0	3,787.8	3,766.0	3,716.1	7.9	12.3	-58.85	246.5	-544.7	439.8	424.6	15.14	29.045		
3,900.0	3,887.3	3,865.3	3,813.9	8.2	12.6	-59.13	253.9	-560.4	451.0	435.4	15.60	28.904		
4,000.0	3,986.8	3,964.7	3,911.8	8.4	13.0	-59.41	261.3	-576.2	462.2	446.1	16.07	28.769		
4,100.0	4,086.3	4,064.0	4,009.6	8.7	13.3	-59.67	268.7	-591.9	473.4	456.9	16.53	28.641		
4,200.0	4,185.8	4,163.4	4,107.4	8.9	13.7	-59.92	276.1	-607.7	484.7	467.7	16.99	28.520		
4,300.0	4,285.3	4,262.7	4,205.2	9.2	14.1	-60.16	283.5	-623.4	495.9	478.4	17.46	28.404		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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: 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			
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	499.7	499.6	0.8	0.9	-85.07	1.1	-12.5	12.6	10.9	1.70	7.409		
600.0	600.0	599.1	598.9	1.0	1.0	-75.51	4.3	-16.6	17.2	15.1	2.05	8.393		
700.0	700.0	698.0	697.5	1.2	1.2	-67.64	9.6	-23.3	25.4	23.0	2.40	10.581		
800.0	800.0	796.9	795.7	1.4	1.5	-62.68	16.7	-32.3	36.7	33.9	2.75	13.327		
900.0	900.0	896.2	894.3	1.5	1.7	-59.99	24.1	-41.7	48.5	45.4	3.11	15.587		
1,000.0	1,000.0	995.5	992.8	1.7	2.0	-58.36	31.4	-51.0	60.3	56.9	3.47	17.385		
1,100.0	1,100.0	1,094.7	1,091.4	1.9	2.2	-57.26	38.8	-60.3	72.2	68.4	3.83	18.842		
1,200.0	1,200.0	1,194.0	1,190.0	2.1	2.5	-56.48	46.1	-69.7	84.2	80.0	4.20	20.044		
1,300.0	1,300.0	1,293.5	1,288.7	2.2	2.8	-29.37	53.5	-79.0	94.6	90.1	4.48	21.089		
1,400.0	1,399.8	1,393.2	1,387.7	2.4	3.0	-30.19	60.9	-88.4	102.0	97.1	4.84	21.086		
1,500.0	1,499.5	1,493.0	1,486.8	2.6	3.3	-31.89	68.3	-97.8	106.5	101.3	5.19	20.494		
1,600.0	1,598.9	1,592.9	1,586.0	2.8	3.6	-33.88	75.7	-107.1	109.9	104.3	5.56	19.752		
1,700.0	1,698.4	1,692.8	1,685.1	3.0	3.8	-35.75	83.1	-116.5	113.5	107.5	5.94	19.098		
1,800.0	1,797.9	1,792.6	1,784.3	3.2	4.1	-37.50	90.5	-125.9	117.1	110.8	6.33	18.518		
1,900.0	1,897.4	1,892.5	1,883.4	3.5	4.4	-39.14	97.9	-135.3	120.9	114.2	6.72	17.999		
2,000.0	1,996.9	1,992.4	1,982.6	3.7	4.6	-40.68	105.3	-144.7	124.8	117.7	7.12	17.533		
2,100.0	2,096.4	2,092.2	2,081.7	3.9	4.9	-42.13	112.7	-154.1	128.7	121.2	7.52	17.111		
2,200.0	2,195.9	2,192.1	2,180.9	4.1	5.2	-43.49	120.1	-163.4	132.8	124.8	7.94	16.728		
2,300.0	2,295.4	2,292.0	2,280.0	4.4	5.4	-44.77	127.6	-172.8	136.9	128.5	8.36	16.379		
2,400.0	2,394.9	2,391.9	2,379.2	4.6	5.7	-45.97	135.0	-182.2	141.1	132.3	8.78	16.061		
2,500.0	2,494.4	2,491.7	2,478.3	4.8	6.0	-47.11	142.4	-191.6	145.3	136.1	9.21	15.769		
2,600.0	2,593.9	2,591.6	2,577.5	5.1	6.2	-48.18	149.8	-201.0	149.6	139.9	9.65	15.501		
2,700.0	2,693.4	2,691.5	2,676.6	5.3	6.5	-49.19	157.2	-210.4	153.9	143.8	10.09	15.254		
2,800.0	2,792.9	2,791.3	2,775.8	5.5	6.8	-50.15	164.6	-219.8	158.3	147.7	10.53	15.026		
2,900.0	2,892.4	2,891.2	2,874.9	5.8	7.1	-51.05	172.0	-229.1	162.7	151.7	10.98	14.815		
3,000.0	2,991.9	2,991.1	2,974.1	6.0	7.3	-51.91	179.4	-238.5	167.1	155.7	11.43	14.620		
3,100.0	3,091.4	3,091.0	3,073.3	6.2	7.6	-52.72	186.8	-247.9	171.6	159.8	11.89	14.439		
3,200.0	3,190.9	3,190.8	3,172.4	6.5	7.9	-53.49	194.2	-257.3	176.2	163.8	12.34	14.271		
3,300.0	3,290.4	3,290.7	3,271.6	6.7	8.1	-54.22	201.6	-266.7	180.7	167.9	12.80	14.114		
3,400.0	3,389.9	3,390.6	3,370.7	7.0	8.4	-54.91	209.0	-276.1	185.3	172.0	13.27	13.967		
3,500.0	3,489.4	3,490.4	3,469.9	7.2	8.7	-55.57	216.4	-285.5	189.9	176.2	13.73	13.831		
3,600.0	3,588.9	3,590.3	3,569.0	7.5	9.0	-56.20	223.8	-294.8	194.5	180.3	14.20	13.702		
3,700.0	3,688.3	3,690.2	3,668.2	7.7	9.2	-56.81	231.2	-304.2	199.2	184.5	14.67	13.582		
3,800.0	3,787.8	3,790.0	3,767.3	7.9	9.5	-57.38	238.6	-313.6	203.9	188.7	15.14	13.470		
3,900.0	3,887.3	3,889.9	3,866.5	8.2	9.8	-57.93	246.0	-323.0	208.6	193.0	15.61	13.364		
4,000.0	3,986.8	3,989.8	3,965.6	8.4	10.1	-58.45	253.4	-332.4	213.3	197.2	16.08	13.264		
4,100.0	4,086.3	4,089.7	4,064.8	8.7	10.3	-58.95	260.8	-341.8	218.0	201.5	16.55	13.170		
4,200.0	4,185.8	4,189.5	4,163.9	8.9	10.6	-59.43	268.2	-351.1	222.8	205.7	17.03	13.081		
4,300.0	4,285.3	4,289.4	4,263.1	9.2	10.9	-59.89	275.6	-360.5	227.5	210.0	17.50	12.997		
4,400.0	4,384.8	4,389.3	4,362.2	9.4	11.1	-60.33	283.0	-369.9	232.3	214.3	17.98	12.918		
4,500.0	4,484.3	4,489.1	4,461.4	9.6	11.4	-60.75	290.4	-379.3	237.1	218.6	18.46	12.842		
4,600.0	4,583.8	4,589.0	4,560.5	9.9	11.7	-61.16	297.8	-388.7	241.9	222.9	18.94	12.771		
4,700.0	4,683.3	4,688.9	4,659.7	10.1	12.0	-61.55	305.3	-398.1	246.7	227.3	19.42	12.703		
4,800.0	4,782.8	4,788.7	4,758.8	10.4	12.2	-61.92	312.7	-407.5	251.5	231.6	19.90	12.639		
4,900.0	4,882.3	4,888.6	4,858.0	10.6	12.5	-62.28	320.1	-416.8	256.3	236.0	20.38	12.578		
5,000.0	4,981.8	4,988.5	4,957.1	10.9	12.8	-62.63	327.5	-426.2	261.2	240.3	20.86	12.520		
5,100.0	5,081.3	5,088.4	5,056.3	11.1	13.0	-62.97	334.9	-435.6	266.0	244.7	21.34	12.464		

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 2C-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 2C-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: 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)			
5,200.0	5,180.8	5,188.2	5,155.5	11.4	13.3	-63.29	342.3	-445.0	270.9	249.1	21.83	12.411	
5,300.0	5,280.3	5,288.1	5,254.6	11.6	13.6	-63.60	349.7	-454.4	275.8	253.5	22.31	12.360	
5,400.0	5,379.8	5,388.0	5,353.8	11.8	13.9	-63.90	357.1	-463.8	280.6	257.9	22.79	12.312	
5,500.0	5,479.3	5,487.8	5,452.9	12.1	14.1	-64.19	364.5	-473.1	285.5	262.3	23.28	12.266	
5,600.0	5,578.8	5,587.7	5,552.1	12.3	14.4	-64.47	371.9	-482.5	290.4	266.7	23.76	12.222	
5,700.0	5,678.2	5,687.6	5,651.2	12.6	14.7	-64.74	379.3	-491.9	295.3	271.1	24.25	12.179	
5,800.0	5,777.7	5,787.5	5,750.4	12.8	14.9	-65.01	386.7	-501.3	300.2	275.5	24.73	12.139	
5,900.0	5,877.2	5,887.3	5,849.5	13.1	15.2	-65.26	394.1	-510.7	305.1	279.9	25.22	12.100	
6,000.0	5,976.7	5,987.2	5,948.7	13.3	15.5	-65.51	401.5	-520.1	310.1	284.3	25.70	12.062	
6,100.0	6,076.2	6,087.1	6,047.8	13.6	15.8	-65.75	408.9	-529.5	315.0	288.8	26.19	12.026	
6,200.0	6,175.7	6,186.9	6,147.0	13.8	16.0	-65.98	416.3	-538.8	319.9	293.2	26.68	11.992	
6,300.0	6,275.2	6,286.8	6,246.1	14.0	16.3	-66.20	423.7	-548.2	324.8	297.7	27.16	11.958	
6,400.0	6,374.7	6,386.7	6,345.3	14.3	16.6	-66.42	431.1	-557.6	329.8	302.1	27.65	11.926	
6,500.0	6,474.2	6,486.5	6,444.4	14.5	16.9	-66.63	438.5	-567.0	334.7	306.6	28.14	11.896	
6,600.0	6,573.7	6,586.4	6,543.6	14.8	17.1	-66.83	445.9	-576.4	339.7	311.0	28.63	11.866	
6,700.0	6,673.2	6,686.3	6,642.7	15.0	17.4	-55.23	453.3	-585.8	344.6	315.5	29.11	11.837	
6,800.0	6,772.9	6,785.5	6,741.2	15.1	17.7	65.98	460.7	-595.1	348.8	319.6	29.21	11.942	
6,900.0	6,870.6	6,881.4	6,836.4	15.0	17.9	82.05	467.8	-604.1	353.5	324.7	28.78	12.282	
7,000.0	6,963.3	6,971.0	6,925.4	14.8	18.2	90.63	474.5	-612.5	362.1	334.1	28.03	12.920	
7,100.0	7,048.1	7,070.3	7,024.1	14.6	18.3	98.37	473.7	-621.9	377.7	350.7	27.06	13.959	
7,200.0	7,122.6	7,182.3	7,133.5	14.3	18.4	105.20	452.4	-632.2	398.8	372.8	26.06	15.306	
7,300.0	7,184.3	7,311.5	7,251.5	14.0	18.3	111.33	401.9	-643.4	423.1	398.0	25.07	16.876	
7,400.0	7,231.5	7,463.0	7,371.5	13.9	18.0	116.70	310.9	-654.7	447.2	423.0	24.20	18.478	
7,500.0	7,262.8	7,640.6	7,476.2	13.9	17.8	120.88	168.6	-664.6	466.9	443.2	23.68	19.716	
7,600.0	7,277.1	7,841.0	7,536.1	14.1	17.9	123.14	-21.5	-670.3	477.5	453.6	23.86	20.016	
7,700.0	7,278.0	7,980.3	7,541.0	14.6	18.4	123.35	-160.6	-670.8	478.4	453.7	24.75	19.331	
7,800.0	7,278.0	8,080.3	7,541.0	15.2	18.9	123.35	-260.6	-670.8	478.4	452.5	25.91	18.464	
7,900.0	7,278.0	8,180.3	7,541.0	16.0	19.5	123.35	-360.6	-670.8	478.4	451.1	27.34	17.500	
8,000.0	7,278.0	8,280.3	7,541.0	17.0	20.3	123.35	-460.6	-670.8	478.4	449.4	29.00	16.501	
8,100.0	7,278.0	8,380.3	7,541.0	18.0	21.2	123.35	-560.6	-670.8	478.4	447.6	30.84	15.512	
8,200.0	7,278.0	8,480.3	7,541.0	19.2	22.2	123.35	-660.6	-670.8	478.4	445.6	32.85	14.565	
8,300.0	7,278.0	8,580.3	7,541.0	20.5	23.3	123.35	-760.6	-670.8	478.4	443.5	34.99	13.674	
8,400.0	7,278.0	8,680.3	7,541.0	21.8	24.5	123.35	-860.6	-670.8	478.4	441.2	37.24	12.849	
8,500.0	7,278.0	8,780.3	7,541.0	23.2	25.7	123.35	-960.6	-670.8	478.4	438.9	39.58	12.089	
8,600.0	7,278.0	8,880.3	7,541.0	24.6	27.0	123.35	-1,060.6	-670.8	478.4	436.5	41.99	11.394	
8,700.0	7,278.0	8,980.3	7,541.0	26.0	28.4	123.35	-1,160.6	-670.8	478.4	434.0	44.47	10.760	
8,800.0	7,278.0	9,080.3	7,541.0	27.6	29.8	123.35	-1,260.6	-670.8	478.4	431.4	47.00	10.180	
8,900.0	7,278.0	9,180.3	7,541.0	29.1	31.2	123.35	-1,360.6	-670.8	478.4	428.9	49.57	9.651	
9,000.0	7,278.0	9,280.3	7,541.0	30.6	32.6	123.35	-1,460.6	-670.8	478.4	426.3	52.19	9.168	
9,100.0	7,278.0	9,380.3	7,541.0	32.2	34.1	123.35	-1,560.6	-670.8	478.4	423.6	54.83	8.725	
9,200.0	7,278.0	9,480.3	7,541.0	33.8	35.6	123.35	-1,660.6	-670.8	478.4	420.9	57.51	8.319	
9,300.0	7,278.0	9,580.3	7,541.0	35.4	37.2	123.35	-1,760.6	-670.8	478.4	418.2	60.21	7.946	
9,400.0	7,278.0	9,680.3	7,541.0	37.0	38.7	123.35	-1,860.6	-670.8	478.4	415.5	62.93	7.603	
9,500.0	7,278.0	9,780.3	7,541.0	38.7	40.3	123.35	-1,960.6	-670.8	478.4	412.8	65.67	7.286	
9,600.0	7,278.0	9,880.3	7,541.0	40.3	41.9	123.35	-2,060.6	-670.8	478.4	410.0	68.43	6.992	
9,700.0	7,278.0	9,980.3	7,541.0	41.9	43.5	123.35	-2,160.6	-670.8	478.4	407.2	71.20	6.720	
9,800.0	7,278.0	10,080.3	7,541.0	43.6	45.1	123.35	-2,260.6	-670.8	478.4	404.5	73.98	6.467	
9,900.0	7,278.0	10,180.3	7,541.0	45.3	46.7	123.35	-2,360.6	-670.8	478.4	401.7	76.78	6.232	
10,000.0	7,278.0	10,280.3	7,541.0	46.9	48.3	123.35	-2,460.6	-670.8	478.4	398.9	79.58	6.012	
10,100.0	7,278.0	10,380.3	7,541.0	48.6	49.9	123.35	-2,560.6	-670.8	478.4	396.0	82.40	5.807	
10,200.0	7,278.0	10,480.3	7,541.0	50.3	51.6	123.35	-2,660.6	-670.8	478.4	393.2	85.22	5.614	
10,300.0	7,278.0	10,580.3	7,541.0	52.0	53.2	123.35	-2,760.6	-670.8	478.4	390.4	88.05	5.434	

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 2C-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 2C-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 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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	7,278.0	10,680.3	7,541.0	53.7	54.9	123.35	-2,860.6	-670.8	478.4	387.6	90.89	5.264		
10,500.0	7,278.0	10,780.3	7,541.0	55.4	56.5	123.35	-2,960.6	-670.8	478.4	384.7	93.73	5.104		
10,600.0	7,278.0	10,880.3	7,541.0	57.1	58.2	123.35	-3,060.6	-670.8	478.4	381.9	96.58	4.954		
10,700.0	7,278.0	10,980.3	7,541.0	58.8	59.9	123.35	-3,160.6	-670.8	478.4	379.0	99.44	4.812		
10,800.0	7,278.0	11,080.3	7,541.0	60.5	61.6	123.35	-3,260.6	-670.8	478.4	376.1	102.30	4.677		
10,900.0	7,278.0	11,180.3	7,541.0	62.2	63.2	123.35	-3,360.6	-670.8	478.4	373.3	105.16	4.550		
11,000.0	7,278.0	11,280.3	7,541.0	63.9	64.9	123.35	-3,460.6	-670.8	478.4	370.4	108.03	4.429		
11,100.0	7,278.0	11,380.3	7,541.0	65.6	66.6	123.35	-3,560.6	-670.8	478.4	367.5	110.90	4.314		
11,200.0	7,278.0	11,480.3	7,541.0	67.3	68.3	123.35	-3,660.6	-670.8	478.4	364.7	113.77	4.205		
11,300.0	7,278.0	11,580.3	7,541.0	69.1	70.0	123.35	-3,760.6	-670.8	478.4	361.8	116.65	4.101		
11,400.0	7,278.0	11,680.3	7,541.0	70.8	71.7	123.35	-3,860.6	-670.8	478.4	358.9	119.53	4.003		
11,500.0	7,278.0	11,780.3	7,541.0	72.5	73.4	123.35	-3,960.6	-670.8	478.4	356.0	122.42	3.908		
11,600.0	7,278.0	11,880.3	7,541.0	74.2	75.1	123.35	-4,060.6	-670.8	478.4	353.1	125.30	3.818		
11,700.0	7,278.0	11,980.3	7,541.0	75.9	76.8	123.35	-4,160.6	-670.8	478.4	350.3	128.19	3.732		
11,800.0	7,278.0	12,080.3	7,541.0	77.7	78.5	123.35	-4,260.6	-670.8	478.4	347.4	131.08	3.650		
11,852.5	7,278.0	12,132.8	7,541.0	78.6	79.4	123.35	-4,313.1	-670.8	478.4	345.8	132.60	3.608 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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		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	90.09	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.09	0.0	11.2	11.2	10.9	0.30	36.807		
200.0	200.0	200.0	200.0	0.3	0.3	90.09	0.0	11.2	11.2	10.5	0.65	17.124		
300.0	300.0	300.0	300.0	0.5	0.5	90.09	0.0	11.2	11.2	10.2	1.00	11.157		
400.0	400.0	400.0	400.0	0.7	0.7	90.09	0.0	11.2	11.2	9.8	1.35	8.274		
500.0	500.0	500.0	500.0	0.8	0.8	90.09	0.0	11.2	11.2	9.5	1.70	6.575		
600.0	600.0	600.0	600.0	1.0	1.0	90.09	0.0	11.2	11.2	9.1	2.05	5.455		
700.0	700.0	700.0	700.0	1.2	1.2	90.09	0.0	11.2	11.2	8.8	2.40	4.661		
800.0	800.0	800.0	800.0	1.4	1.4	90.09	0.0	11.2	11.2	8.4	2.75	4.069 CC		
900.0	900.0	899.9	899.9	1.5	1.5	81.36	1.7	11.3	11.5	8.4	3.10	3.698 ES		
1,000.0	1,000.0	999.6	999.5	1.7	1.7	59.56	6.9	11.8	13.7	10.2	3.45	3.952		
1,100.0	1,100.0	1,099.2	1,098.7	1.9	1.9	40.13	14.7	12.4	19.3	15.5	3.81	5.063		
1,200.0	1,200.0	1,198.9	1,198.1	2.1	2.1	29.94	22.7	13.1	26.3	22.1	4.17	6.302		
1,300.0	1,300.0	1,298.7	1,297.5	2.2	2.3	53.34	30.7	13.8	32.7	28.2	4.50	7.265		
1,400.0	1,399.8	1,398.5	1,397.1	2.4	2.5	55.17	38.8	14.4	37.1	32.2	4.86	7.631		
1,500.0	1,499.5	1,498.4	1,496.7	2.6	2.7	60.80	46.8	15.1	39.7	34.5	5.24	7.578		
1,600.0	1,598.9	1,598.3	1,596.2	2.8	3.0	67.41	54.8	15.8	42.1	36.5	5.64	7.467		
1,700.0	1,698.4	1,698.2	1,695.7	3.0	3.2	73.22	62.8	16.5	45.1	39.0	6.06	7.433		
1,800.0	1,797.9	1,798.0	1,795.3	3.2	3.4	78.29	70.8	17.1	48.4	41.9	6.49	7.452		
1,900.0	1,897.4	1,897.9	1,894.8	3.5	3.6	82.68	78.8	17.8	52.0	45.1	6.93	7.507		
2,000.0	1,996.9	1,997.7	1,994.3	3.7	3.8	86.47	86.8	18.5	56.0	48.6	7.38	7.585		
2,100.0	2,096.4	2,097.6	2,093.9	3.9	4.0	89.75	94.9	19.2	60.1	52.3	7.83	7.678		
2,200.0	2,195.9	2,197.4	2,193.4	4.1	4.2	92.61	102.9	19.8	64.4	56.1	8.28	7.780		
2,300.0	2,295.4	2,297.3	2,292.9	4.4	4.5	95.10	110.9	20.5	68.8	60.1	8.73	7.886		
2,400.0	2,394.9	2,397.2	2,392.5	4.6	4.7	97.28	118.9	21.2	73.4	64.2	9.18	7.994		
2,500.0	2,494.4	2,497.0	2,492.0	4.8	4.9	99.21	126.9	21.9	78.1	68.4	9.64	8.101		
2,600.0	2,593.9	2,596.9	2,591.5	5.1	5.1	100.92	134.9	22.5	82.8	72.7	10.09	8.206		
2,700.0	2,693.4	2,696.7	2,691.1	5.3	5.3	102.44	142.9	23.2	87.6	77.0	10.54	8.309		
2,800.0	2,792.9	2,796.6	2,790.6	5.5	5.6	103.81	151.0	23.9	92.4	81.4	10.99	8.408		
2,900.0	2,892.4	2,896.5	2,890.2	5.8	5.8	105.03	159.0	24.6	97.3	85.9	11.45	8.504		
3,000.0	2,991.9	2,996.3	2,989.7	6.0	6.0	106.14	167.0	25.2	102.3	90.4	11.90	8.597		
3,100.0	3,091.4	3,096.2	3,089.2	6.2	6.2	107.15	175.0	25.9	107.3	94.9	12.35	8.685		
3,200.0	3,190.9	3,196.0	3,188.8	6.5	6.4	108.07	183.0	26.6	112.3	99.5	12.80	8.770		
3,300.0	3,290.4	3,295.9	3,288.3	6.7	6.7	108.91	191.0	27.3	117.3	104.0	13.25	8.851		
3,400.0	3,389.9	3,395.8	3,387.8	7.0	6.9	109.68	199.0	27.9	122.3	108.6	13.70	8.929		
3,500.0	3,489.4	3,495.6	3,487.4	7.2	7.1	110.39	207.1	28.6	127.4	113.3	14.15	9.004		
3,600.0	3,588.9	3,595.5	3,586.9	7.5	7.3	111.04	215.1	29.3	132.5	117.9	14.60	9.075		
3,700.0	3,688.3	3,695.3	3,686.4	7.7	7.6	111.65	223.1	29.9	137.6	122.6	15.05	9.143		
3,800.0	3,787.8	3,795.2	3,786.0	7.9	7.8	112.21	231.1	30.6	142.7	127.2	15.50	9.208		
3,900.0	3,887.3	3,895.1	3,885.5	8.2	8.0	112.73	239.1	31.3	147.9	131.9	15.95	9.271		
4,000.0	3,986.8	3,994.9	3,985.0	8.4	8.2	113.22	247.1	32.0	153.0	136.6	16.40	9.330		
4,100.0	4,086.3	4,094.8	4,084.6	8.7	8.4	113.68	255.1	32.6	158.2	141.3	16.85	9.388		
4,200.0	4,185.8	4,194.6	4,184.1	8.9	8.7	114.11	263.2	33.3	163.3	146.0	17.30	9.443		
4,300.0	4,285.3	4,294.5	4,283.6	9.2	8.9	114.51	271.2	34.0	168.5	150.8	17.75	9.495		
4,400.0	4,384.8	4,394.4	4,383.2	9.4	9.1	114.88	279.2	34.7	173.7	155.5	18.20	9.546		
4,500.0	4,484.3	4,494.2	4,482.7	9.6	9.3	115.24	287.2	35.3	178.9	160.2	18.64	9.595		
4,600.0	4,583.8	4,594.1	4,582.2	9.9	9.6	115.58	295.2	36.0	184.1	165.0	19.09	9.641		
4,700.0	4,683.3	4,693.9	4,681.8	10.1	9.8	115.89	303.2	36.7	189.3	169.7	19.54	9.686		
4,800.0	4,782.8	4,793.8	4,781.3	10.4	10.0	116.19	311.2	37.4	194.5	174.5	19.99	9.730		
4,900.0	4,882.3	4,893.6	4,880.8	10.6	10.2	116.48	319.3	38.0	199.7	179.3	20.44	9.771		
5,000.0	4,981.8	4,993.5	4,980.4	10.9	10.4	116.75	327.3	38.7	204.9	184.0	20.89	9.811		
5,100.0	5,081.3	5,093.4	5,079.9	11.1	10.7	117.00	335.3	39.4	210.1	188.8	21.33	9.850		

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 2C-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 2C-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		
5,200.0	5,180.8	5,193.2	5,179.5	11.4	10.9	117.25	343.3	40.1	215.4	193.6	21.78	9.887		
5,300.0	5,280.3	5,293.1	5,279.0	11.6	11.1	117.48	351.3	40.7	220.6	198.4	22.23	9.923		
5,400.0	5,379.8	5,392.9	5,378.5	11.8	11.3	117.70	359.3	41.4	225.8	203.1	22.68	9.958		
5,500.0	5,479.3	5,492.8	5,478.1	12.1	11.6	117.91	367.3	42.1	231.1	207.9	23.13	9.991		
5,600.0	5,578.8	5,592.7	5,577.6	12.3	11.8	118.12	375.4	42.8	236.3	212.7	23.57	10.024		
5,700.0	5,678.2	5,692.5	5,677.1	12.6	12.0	118.31	383.4	43.4	241.5	217.5	24.02	10.055		
5,800.0	5,777.7	5,792.4	5,776.7	12.8	12.2	118.50	391.4	44.1	246.8	222.3	24.47	10.085		
5,900.0	5,877.2	5,892.2	5,876.2	13.1	12.5	118.67	399.4	44.8	252.0	227.1	24.92	10.114		
6,000.0	5,976.7	5,992.1	5,975.7	13.3	12.7	118.84	407.4	45.5	257.3	231.9	25.37	10.143		
6,100.0	6,076.2	6,092.0	6,075.3	13.6	12.9	119.01	415.4	46.1	262.5	236.7	25.81	10.170		
6,200.0	6,175.7	6,191.8	6,174.8	13.8	13.1	119.16	423.4	46.8	267.8	241.5	26.26	10.197		
6,300.0	6,275.2	6,291.7	6,274.3	14.0	13.3	119.32	431.4	47.5	273.0	246.3	26.71	10.223		
6,400.0	6,374.7	6,391.5	6,373.9	14.3	13.6	119.46	439.5	48.2	278.3	251.1	27.16	10.248		
6,500.0	6,474.2	6,491.4	6,473.4	14.5	13.8	119.60	447.5	48.8	283.6	255.9	27.60	10.272		
6,600.0	6,573.7	6,591.3	6,572.9	14.8	14.0	119.74	455.5	49.5	288.8	260.8	28.05	10.296		
6,700.0	6,673.2	6,691.1	6,672.5	15.0	14.2	131.75	463.5	50.2	294.1	265.6	28.49	10.321		
6,800.0	6,772.9	6,790.2	6,771.3	15.1	14.5	-110.04	471.5	50.8	298.9	270.1	28.85	10.359		
6,900.0	6,870.6	6,885.9	6,866.7	15.0	14.7	-102.30	479.1	51.5	304.9	275.8	29.09	10.480		
7,000.0	6,963.3	6,982.8	6,963.4	14.8	14.8	-105.26	483.2	52.1	315.6	286.6	29.00	10.883		
7,100.0	7,048.1	7,089.7	7,069.2	14.6	14.8	-109.87	469.7	52.9	330.8	302.5	28.37	11.660		
7,200.0	7,122.6	7,207.4	7,180.7	14.3	14.6	-114.58	432.4	53.6	349.2	321.9	27.29	12.794		
7,300.0	7,184.3	7,338.3	7,292.7	14.0	14.2	-118.90	365.2	54.4	368.4	342.5	25.94	14.203		
7,400.0	7,231.5	7,484.0	7,395.8	13.9	13.7	-122.49	262.9	55.1	385.8	361.2	24.64	15.662		
7,500.0	7,262.8	7,643.8	7,475.4	13.9	13.5	-125.00	124.9	55.6	398.8	374.9	23.85	16.723		
7,600.0	7,277.1	7,813.7	7,514.8	14.1	13.7	-126.13	-39.7	55.9	404.8	380.8	24.02	16.853		
7,700.0	7,278.0	7,934.7	7,517.0	14.6	14.2	-126.16	-160.6	55.9	405.0	380.1	24.91	16.260		
7,800.0	7,278.0	8,034.7	7,517.0	15.2	14.9	-126.16	-260.6	55.9	405.0	379.0	26.01	15.570		
7,900.0	7,278.0	8,134.7	7,517.0	16.0	15.7	-126.16	-360.6	55.9	405.0	377.7	27.37	14.798		
8,000.0	7,278.0	8,234.7	7,517.0	17.0	16.7	-126.16	-460.6	55.9	405.0	376.1	28.94	13.995		
8,100.0	7,278.0	8,334.7	7,517.0	18.0	17.8	-126.16	-560.6	55.9	405.0	374.3	30.70	13.194		
8,200.0	7,278.0	8,434.7	7,517.0	19.2	19.0	-126.16	-660.6	55.9	405.0	372.4	32.61	12.422		
8,300.0	7,278.0	8,534.7	7,517.0	20.5	20.2	-126.16	-760.6	55.9	405.0	370.4	34.64	11.692		
8,400.0	7,278.0	8,634.7	7,517.0	21.8	21.6	-126.16	-860.6	55.9	405.0	368.2	36.79	11.010		
8,500.0	7,278.0	8,734.7	7,517.0	23.2	23.0	-126.16	-960.6	55.9	405.0	366.0	39.02	10.380		
8,600.0	7,278.0	8,834.7	7,517.0	24.6	24.4	-126.16	-1,060.6	55.9	405.0	363.7	41.33	9.800		
8,700.0	7,278.0	8,934.7	7,517.0	26.0	25.9	-126.16	-1,160.6	55.9	405.0	361.3	43.70	9.269		
8,800.0	7,278.0	9,034.7	7,517.0	27.6	27.4	-126.16	-1,260.6	55.9	405.0	358.9	46.12	8.781		
8,900.0	7,278.0	9,134.7	7,517.0	29.1	28.9	-126.16	-1,360.6	55.9	405.0	356.4	48.59	8.335		
9,000.0	7,278.0	9,234.7	7,517.0	30.6	30.5	-126.16	-1,460.6	55.9	405.0	353.9	51.10	7.926		
9,100.0	7,278.0	9,334.7	7,517.0	32.2	32.1	-126.16	-1,560.6	55.9	405.0	351.4	53.64	7.550		
9,200.0	7,278.0	9,434.7	7,517.0	33.8	33.7	-126.16	-1,660.6	55.9	405.0	348.8	56.21	7.205		
9,300.0	7,278.0	9,534.7	7,517.0	35.4	35.3	-126.16	-1,760.6	55.9	405.0	346.2	58.81	6.887		
9,400.0	7,278.0	9,634.7	7,517.0	37.0	36.9	-126.16	-1,860.6	55.9	405.0	343.6	61.43	6.594		
9,500.0	7,278.0	9,734.7	7,517.0	38.7	38.6	-126.16	-1,960.6	55.9	405.0	341.0	64.06	6.322		
9,600.0	7,278.0	9,834.7	7,517.0	40.3	40.2	-126.16	-2,060.6	55.9	405.0	338.3	66.72	6.071		
9,700.0	7,278.0	9,934.7	7,517.0	41.9	41.9	-126.16	-2,160.6	55.9	405.0	335.6	69.38	5.838		
9,800.0	7,278.0	10,034.7	7,517.0	43.6	43.5	-126.16	-2,260.6	55.9	405.0	333.0	72.07	5.620		
9,900.0	7,278.0	10,134.7	7,517.0	45.3	45.2	-126.16	-2,360.6	55.9	405.0	330.3	74.76	5.418		
10,000.0	7,278.0	10,234.7	7,517.0	46.9	46.9	-126.16	-2,460.6	55.9	405.0	327.6	77.46	5.229		
10,100.0	7,278.0	10,334.7	7,517.0	48.6	48.6	-126.16	-2,560.6	55.9	405.0	324.9	80.18	5.052		
10,200.0	7,278.0	10,434.7	7,517.0	50.3	50.2	-126.16	-2,660.6	55.9	405.0	322.1	82.90	4.886		
10,300.0	7,278.0	10,534.7	7,517.0	52.0	51.9	-126.16	-2,760.6	55.9	405.0	319.4	85.63	4.730		

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 2C-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 2C-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 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		
10,400.0	7,278.0	10,634.7	7,517.0	53.7	53.6	-126.16	-2,860.6	55.9	405.0	316.7	88.36	4.584		
10,500.0	7,278.0	10,734.7	7,517.0	55.4	55.3	-126.16	-2,960.6	55.9	405.0	313.9	91.11	4.446		
10,600.0	7,278.0	10,834.7	7,517.0	57.1	57.0	-126.16	-3,060.6	55.9	405.0	311.2	93.86	4.315		
10,700.0	7,278.0	10,934.7	7,517.0	58.8	58.7	-126.16	-3,160.6	55.9	405.0	308.4	96.61	4.192		
10,800.0	7,278.0	11,034.7	7,517.0	60.5	60.4	-126.16	-3,260.6	55.9	405.0	305.7	99.37	4.076		
10,900.0	7,278.0	11,134.7	7,517.0	62.2	62.2	-126.16	-3,360.6	55.9	405.0	302.9	102.13	3.966		
11,000.0	7,278.0	11,234.7	7,517.0	63.9	63.9	-126.16	-3,460.6	55.9	405.0	300.1	104.90	3.861		
11,100.0	7,278.0	11,334.7	7,517.0	65.6	65.6	-126.16	-3,560.6	55.9	405.0	297.4	107.67	3.762		
11,200.0	7,278.0	11,434.7	7,517.0	67.3	67.3	-126.16	-3,660.6	55.9	405.0	294.6	110.45	3.667		
11,300.0	7,278.0	11,534.7	7,517.0	69.1	69.0	-126.16	-3,760.6	55.9	405.0	291.8	113.23	3.577		
11,400.0	7,278.0	11,634.7	7,517.0	70.8	70.7	-126.16	-3,860.6	55.9	405.0	289.0	116.01	3.491		
11,500.0	7,278.0	11,734.7	7,517.0	72.5	72.5	-126.16	-3,960.6	55.9	405.0	286.2	118.79	3.410		
11,600.0	7,278.0	11,834.7	7,517.0	74.2	74.2	-126.16	-4,060.6	55.9	405.0	283.5	121.58	3.331		
11,700.0	7,278.0	11,934.7	7,517.0	75.9	75.9	-126.16	-4,160.6	55.9	405.0	280.7	124.37	3.257		
11,800.0	7,278.0	12,034.7	7,517.0	77.7	77.6	-126.16	-4,260.6	55.9	405.0	277.9	127.16	3.185		
11,828.1	7,278.0	12,062.8	7,517.0	78.2	78.1	-126.16	-4,288.7	55.9	405.0	277.1	127.95	3.166		
11,852.5	7,278.0	12,083.5	7,517.0	78.6	78.5	-126.16	-4,309.4	55.9	405.1	276.5	128.58	3.150 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	19.6	19.6						
100.0	100.0	100.0	100.0	0.2	0.2	90.02	0.0	19.6	19.6	19.3	0.30	64.412			
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	19.6	19.6	18.9	0.65	29.967			
300.0	300.0	300.0	300.0	0.5	0.5	90.02	0.0	19.6	19.6	18.6	1.00	19.525			
400.0	400.0	400.0	400.0	0.7	0.7	90.02	0.0	19.6	19.6	18.2	1.35	14.480			
500.0	500.0	500.0	500.0	0.8	0.8	90.02	0.0	19.6	19.6	17.9	1.70	11.507			
600.0	600.0	600.0	600.0	1.0	1.0	90.02	0.0	19.6	19.6	17.5	2.05	9.547 CC, ES			
700.0	700.0	699.5	699.5	1.2	1.2	86.21	1.4	20.6	20.7	18.3	2.40	8.614 SF			
800.0	800.0	798.9	798.7	1.4	1.4	77.04	5.5	23.8	24.4	21.7	2.76	8.861			
900.0	900.0	897.7	897.2	1.5	1.6	67.06	12.3	29.0	31.6	28.5	3.12	10.117			
1,000.0	1,000.0	997.2	996.1	1.7	1.8	59.91	20.4	35.2	40.9	37.4	3.49	11.716			
1,100.0	1,100.0	1,096.6	1,095.0	1.9	2.0	55.44	28.5	41.4	50.6	46.7	3.86	13.116			
1,200.0	1,200.0	1,196.1	1,194.0	2.1	2.3	52.42	36.7	47.7	60.5	56.2	4.22	14.322			
1,300.0	1,300.0	1,295.6	1,293.0	2.2	2.5	78.40	44.8	53.9	70.1	65.6	4.50	15.578			
1,400.0	1,399.8	1,395.2	1,392.0	2.4	2.7	80.12	53.0	60.2	79.1	74.2	4.86	16.266			
1,500.0	1,499.5	1,494.7	1,490.9	2.6	3.0	83.72	61.1	66.4	87.7	82.5	5.25	16.717			
1,600.0	1,598.9	1,594.1	1,589.8	2.8	3.2	87.59	69.3	72.6	96.6	91.0	5.65	17.095			
1,700.0	1,698.4	1,693.5	1,688.7	3.0	3.4	90.80	77.4	78.9	105.9	99.8	6.07	17.450			
1,800.0	1,797.9	1,792.9	1,787.6	3.2	3.7	93.49	85.5	85.1	115.4	108.9	6.49	17.776			
1,900.0	1,897.4	1,892.3	1,886.5	3.5	3.9	95.76	93.7	91.3	125.1	118.2	6.92	18.076			
2,000.0	1,996.9	1,991.7	1,985.3	3.7	4.2	97.71	101.8	97.6	135.0	127.6	7.36	18.351			
2,100.0	2,096.4	2,091.1	2,084.2	3.9	4.4	99.39	110.0	103.8	145.0	137.2	7.80	18.602			
2,200.0	2,195.9	2,190.5	2,183.1	4.1	4.7	100.85	118.1	110.1	155.2	146.9	8.24	18.832			
2,300.0	2,295.4	2,290.0	2,282.0	4.4	4.9	102.13	126.2	116.3	165.4	156.7	8.69	19.044			
2,400.0	2,394.9	2,389.4	2,380.9	4.6	5.1	103.26	134.4	122.5	175.7	166.6	9.13	19.238			
2,500.0	2,494.4	2,488.8	2,479.8	4.8	5.4	104.26	142.5	128.8	186.1	176.5	9.58	19.418			
2,600.0	2,593.9	2,588.2	2,578.6	5.1	5.6	105.16	150.6	135.0	196.5	186.4	10.03	19.584			
2,700.0	2,693.4	2,687.6	2,677.5	5.3	5.9	105.97	158.8	141.2	206.9	196.4	10.48	19.738			
2,800.0	2,792.9	2,787.0	2,776.4	5.5	6.1	106.70	166.9	147.5	217.4	206.5	10.94	19.881			
2,900.0	2,892.4	2,886.4	2,875.3	5.8	6.4	107.37	175.1	153.7	227.9	216.5	11.39	20.014			
3,000.0	2,991.9	2,985.8	2,974.2	6.0	6.6	107.97	183.2	159.9	238.5	226.6	11.84	20.138			
3,100.0	3,091.4	3,085.2	3,073.0	6.2	6.9	108.53	191.3	166.2	249.0	236.8	12.30	20.254			
3,200.0	3,190.9	3,184.7	3,171.9	6.5	7.1	109.04	199.5	172.4	259.6	246.9	12.75	20.363			
3,300.0	3,290.4	3,284.1	3,270.8	6.7	7.4	109.50	207.6	178.7	270.3	257.0	13.21	20.465			
3,400.0	3,389.9	3,383.5	3,369.7	7.0	7.6	109.94	215.7	184.9	280.9	267.2	13.66	20.561			
3,500.0	3,489.4	3,482.9	3,468.6	7.2	7.9	110.34	223.9	191.1	291.5	277.4	14.12	20.651			
3,600.0	3,588.9	3,582.3	3,567.5	7.5	8.1	110.71	232.0	197.4	302.2	287.6	14.57	20.737			
3,700.0	3,688.3	3,681.7	3,666.3	7.7	8.4	111.06	240.2	203.6	312.9	297.8	15.03	20.817			
3,800.0	3,787.8	3,781.1	3,765.2	7.9	8.6	111.39	248.3	209.8	323.5	308.0	15.48	20.893			
3,900.0	3,887.3	3,880.5	3,864.1	8.2	8.9	111.69	256.4	216.1	334.2	318.3	15.94	20.966			
4,000.0	3,986.8	3,980.0	3,963.0	8.4	9.1	111.98	264.6	222.3	344.9	328.5	16.40	21.034			
4,100.0	4,086.3	4,079.4	4,061.9	8.7	9.4	112.24	272.7	228.5	355.6	338.8	16.85	21.099			
4,200.0	4,185.8	4,178.8	4,160.7	8.9	9.6	112.50	280.8	234.8	366.3	349.0	17.31	21.161			
4,300.0	4,285.3	4,278.2	4,259.6	9.2	9.9	112.73	289.0	241.0	377.1	359.3	17.77	21.220			
4,400.0	4,384.8	4,377.6	4,358.5	9.4	10.1	112.96	297.1	247.2	387.8	369.6	18.23	21.276			
4,500.0	4,484.3	4,477.0	4,457.4	9.6	10.4	113.17	305.3	253.5	398.5	379.8	18.68	21.330			
4,600.0	4,583.8	4,576.4	4,556.3	9.9	10.6	113.37	313.4	259.7	409.3	390.1	19.14	21.381			
4,700.0	4,683.3	4,675.8	4,655.2	10.1	10.8	113.57	321.5	266.0	420.0	400.4	19.60	21.430			
4,800.0	4,782.8	4,775.2	4,754.0	10.4	11.1	113.75	329.7	272.2	430.7	410.7	20.06	21.477			
4,900.0	4,882.3	4,874.7	4,852.9	10.6	11.3	113.92	337.8	278.4	441.5	421.0	20.51	21.522			
5,000.0	4,981.8	4,974.1	4,951.8	10.9	11.6	114.09	345.9	284.7	452.2	431.3	20.97	21.565			
5,100.0	5,081.3	5,073.5	5,050.7	11.1	11.8	114.24	354.1	290.9	463.0	441.6	21.43	21.607			

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 2C-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 2C-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	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)							
5,200.0	5,180.8	5,172.9	5,149.6	11.4	12.1	114.39	362.2	297.1	473.8	451.9	21.89	21.646					
5,300.0	5,280.3	5,272.3	5,248.4	11.6	12.3	114.54	370.4	303.4	484.5	462.2	22.34	21.685					
5,400.0	5,379.8	5,371.7	5,347.3	11.8	12.6	114.67	378.5	309.6	495.3	472.5	22.80	21.721					

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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 2F-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	90.03	0.0	30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	90.03	0.0	30.7	30.7	30.4	0.30	101.218		
200.0	200.0	200.0	200.0	0.3	0.3	90.03	0.0	30.7	30.7	30.1	0.65	47.091		
300.0	300.0	300.0	300.0	0.5	0.5	90.03	0.0	30.7	30.7	29.7	1.00	30.683		
400.0	400.0	400.0	400.0	0.7	0.7	90.03	0.0	30.7	30.7	29.4	1.35	22.755 CC, ES		
500.0	500.0	499.1	499.0	0.8	0.9	88.40	0.9	32.2	32.2	30.5	1.70	18.950		
600.0	600.0	597.9	597.7	1.0	1.0	84.32	3.6	36.5	36.8	34.7	2.06	17.884 SF		
700.0	700.0	696.2	695.7	1.2	1.2	79.41	8.2	43.7	44.6	42.2	2.42	18.431		
800.0	800.0	793.9	792.7	1.4	1.5	74.93	14.4	53.6	56.0	53.2	2.80	20.006		
900.0	900.0	892.5	890.2	1.5	1.8	71.45	22.0	65.5	69.8	66.6	3.18	21.964		
1,000.0	1,000.0	991.4	988.1	1.7	2.0	69.11	29.6	77.6	83.9	80.3	3.56	23.566		
1,100.0	1,100.0	1,090.4	1,086.1	1.9	2.3	67.45	37.2	89.7	98.1	94.1	3.94	24.882		
1,200.0	1,200.0	1,189.3	1,184.0	2.1	2.6	66.20	44.9	101.7	112.3	108.0	4.32	25.982		
1,300.0	1,300.0	1,288.3	1,281.9	2.2	2.9	92.67	52.5	113.8	126.7	122.2	4.49	28.240		
1,400.0	1,399.8	1,387.2	1,379.8	2.4	3.2	93.68	60.1	125.8	141.2	136.4	4.85	29.146		
1,500.0	1,499.5	1,485.9	1,477.4	2.6	3.5	95.74	67.7	137.9	156.2	150.9	5.22	29.886		
1,600.0	1,598.9	1,584.5	1,575.0	2.8	3.8	98.11	75.3	149.9	171.5	165.9	5.62	30.501		
1,700.0	1,698.4	1,683.1	1,672.5	3.0	4.1	100.09	82.9	161.9	187.0	181.0	6.03	31.019		
1,800.0	1,797.9	1,781.7	1,770.1	3.2	4.4	101.77	90.5	173.9	202.8	196.3	6.45	31.459		
1,900.0	1,897.4	1,880.2	1,867.7	3.5	4.7	103.20	98.1	185.9	218.7	211.8	6.87	31.837		
2,000.0	1,996.9	1,978.8	1,965.2	3.7	5.0	104.44	105.7	197.9	234.7	227.4	7.30	32.165		
2,100.0	2,096.4	2,077.4	2,062.8	3.9	5.3	105.52	113.3	209.9	250.8	243.1	7.73	32.450		
2,200.0	2,195.9	2,176.0	2,160.3	4.1	5.6	106.47	120.9	221.9	267.0	258.8	8.16	32.702		
2,300.0	2,295.4	2,274.6	2,257.9	4.4	5.9	107.32	128.5	234.0	283.2	274.6	8.60	32.925		
2,400.0	2,394.9	2,373.2	2,355.5	4.6	6.2	108.07	136.1	246.0	299.5	290.5	9.04	33.124		
2,500.0	2,494.4	2,471.8	2,453.0	4.8	6.5	108.74	143.7	258.0	315.9	306.4	9.48	33.303		
2,600.0	2,593.9	2,570.4	2,550.6	5.1	6.8	109.35	151.3	270.0	332.2	322.3	9.93	33.464		
2,700.0	2,693.4	2,669.0	2,648.2	5.3	7.1	109.90	158.9	282.0	348.7	338.3	10.37	33.611		
2,800.0	2,792.9	2,767.6	2,745.7	5.5	7.4	110.40	166.5	294.0	365.1	354.3	10.82	33.744		
2,900.0	2,892.4	2,866.2	2,843.3	5.8	7.7	110.85	174.1	306.0	381.6	370.3	11.27	33.867		
3,000.0	2,991.9	2,964.7	2,940.8	6.0	8.0	111.27	181.7	318.1	398.1	386.3	11.71	33.979		
3,100.0	3,091.4	3,063.3	3,038.4	6.2	8.3	111.66	189.3	330.1	414.6	402.4	12.16	34.083		
3,200.0	3,190.9	3,161.9	3,136.0	6.5	8.6	112.02	196.8	342.1	431.1	418.5	12.61	34.179		
3,300.0	3,290.4	3,260.5	3,233.5	6.7	8.9	112.35	204.4	354.1	447.6	434.6	13.06	34.268		
3,400.0	3,389.9	3,359.1	3,331.1	7.0	9.2	112.65	212.0	366.1	464.2	450.7	13.51	34.351		
3,500.0	3,489.4	3,457.7	3,428.6	7.2	9.5	112.94	219.6	378.1	480.7	466.8	13.96	34.428		
3,600.0	3,588.9	3,556.3	3,526.2	7.5	9.8	113.21	227.2	390.1	497.3	482.9	14.41	34.501		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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	90.04	0.0	39.1	39.1					
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	39.1	39.1	38.8	0.30	128.823		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	39.1	39.1	38.5	0.65	59.934	CC, ES	
300.0	300.0	298.7	298.7	0.5	0.5	89.04	0.7	40.7	40.7	39.7	1.00	40.622		
400.0	400.0	397.2	397.1	0.7	0.7	86.46	2.8	45.3	45.5	44.1	1.36	33.454		
500.0	500.0	495.3	494.7	0.8	0.9	83.21	6.3	52.9	53.6	51.8	1.73	30.994		
600.0	600.0	592.6	591.4	1.0	1.2	80.04	11.2	63.5	65.1	63.0	2.11	30.847	SF	
700.0	700.0	689.1	686.7	1.2	1.5	77.32	17.3	77.0	80.0	77.5	2.50	31.972		
800.0	800.0	785.7	781.7	1.4	1.8	75.14	24.7	93.1	98.1	95.1	2.90	33.792		
900.0	900.0	883.9	878.2	1.5	2.2	73.57	32.4	110.0	116.7	113.4	3.30	35.325		
1,000.0	1,000.0	982.1	974.6	1.7	2.5	72.43	40.2	126.9	135.5	131.8	3.71	36.546		
1,100.0	1,100.0	1,080.3	1,071.0	1.9	2.9	71.57	47.9	143.7	154.2	150.1	4.11	37.539		
1,200.0	1,200.0	1,178.5	1,167.4	2.1	3.2	70.90	55.6	160.6	173.0	168.5	4.51	38.362		
1,300.0	1,300.0	1,276.7	1,263.8	2.2	3.6	97.43	63.3	177.5	192.1	187.6	4.46	43.062		
1,400.0	1,399.8	1,374.7	1,360.1	2.4	4.0	97.97	71.1	194.3	211.6	206.8	4.82	43.938		
1,500.0	1,499.5	1,472.5	1,456.1	2.6	4.3	99.26	78.8	211.1	231.7	226.5	5.19	44.649		
1,600.0	1,598.9	1,570.1	1,552.0	2.8	4.7	100.95	86.4	227.9	252.2	246.6	5.58	45.181		
1,700.0	1,698.4	1,667.7	1,647.8	3.0	5.1	102.38	94.1	244.6	272.9	266.9	5.99	45.590		
1,800.0	1,797.9	1,765.4	1,743.7	3.2	5.4	103.61	101.8	261.4	293.7	287.3	6.40	45.909		
1,900.0	1,897.4	1,863.0	1,839.6	3.5	5.8	104.68	109.5	278.2	314.7	307.8	6.82	46.160		
2,000.0	1,996.9	1,960.6	1,935.4	3.7	6.2	105.61	117.2	295.0	335.7	328.4	7.24	46.360		
2,100.0	2,096.4	2,058.2	2,031.3	3.9	6.5	106.44	124.9	311.7	356.8	349.1	7.67	46.521		
2,200.0	2,195.9	2,155.9	2,127.2	4.1	6.9	107.17	132.5	328.5	378.0	369.9	8.10	46.652		
2,300.0	2,295.4	2,253.5	2,223.0	4.4	7.3	107.83	140.2	345.3	399.2	390.6	8.54	46.760		
2,400.0	2,394.9	2,351.1	2,318.9	4.6	7.6	108.42	147.9	362.0	420.4	411.5	8.97	46.849		
2,500.0	2,494.4	2,448.7	2,414.8	4.8	8.0	108.95	155.6	378.8	441.7	432.3	9.41	46.923		
2,600.0	2,593.9	2,546.4	2,510.6	5.1	8.4	109.43	163.3	395.6	463.1	453.2	9.86	46.986		
2,700.0	2,693.4	2,644.0	2,606.5	5.3	8.7	109.87	171.0	412.4	484.5	474.2	10.30	47.040		

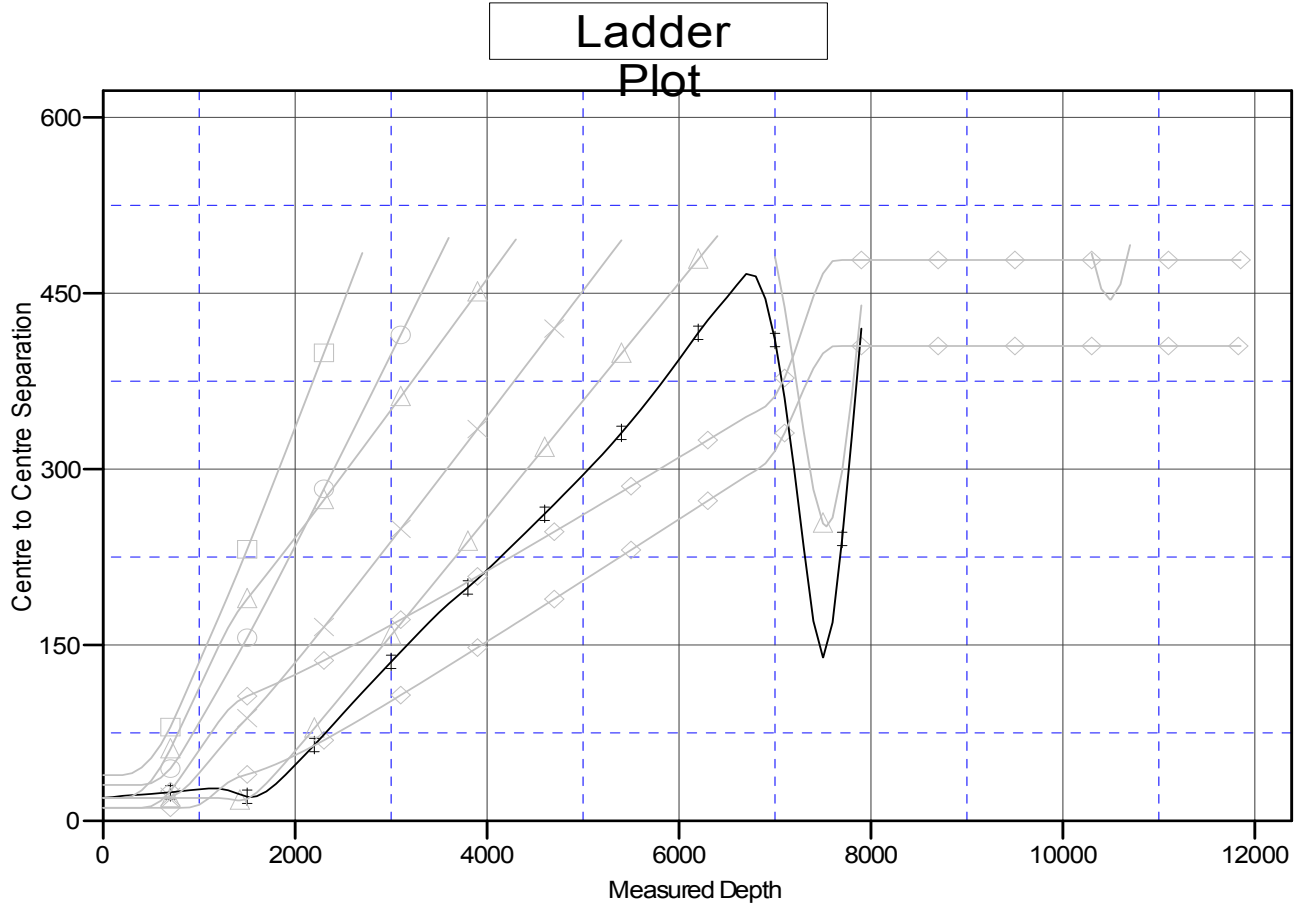
Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2C-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 2C-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 2C-2H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.49°



LEGEND

◆ lone #13-2 (Existing), DD, Plan #1 V0	▲ lone 2A-2H, HZ, Plan #1 V0	✕ lone 2E-2H, HZ, Plan #1 V0
◆ lone #3 (Existing), DD, DD V0	◆ lone 2B-2H, HZ, Plan #1 V0	○ lone 2F-2H, HZ, Plan #1 V0
▲ lone #3 (Existing), DD, Plan #1 V0	◆ lone 2D-2H, HZ, Plan #1 V0	□ lone 2G-2H, HZ, Plan #1 V0