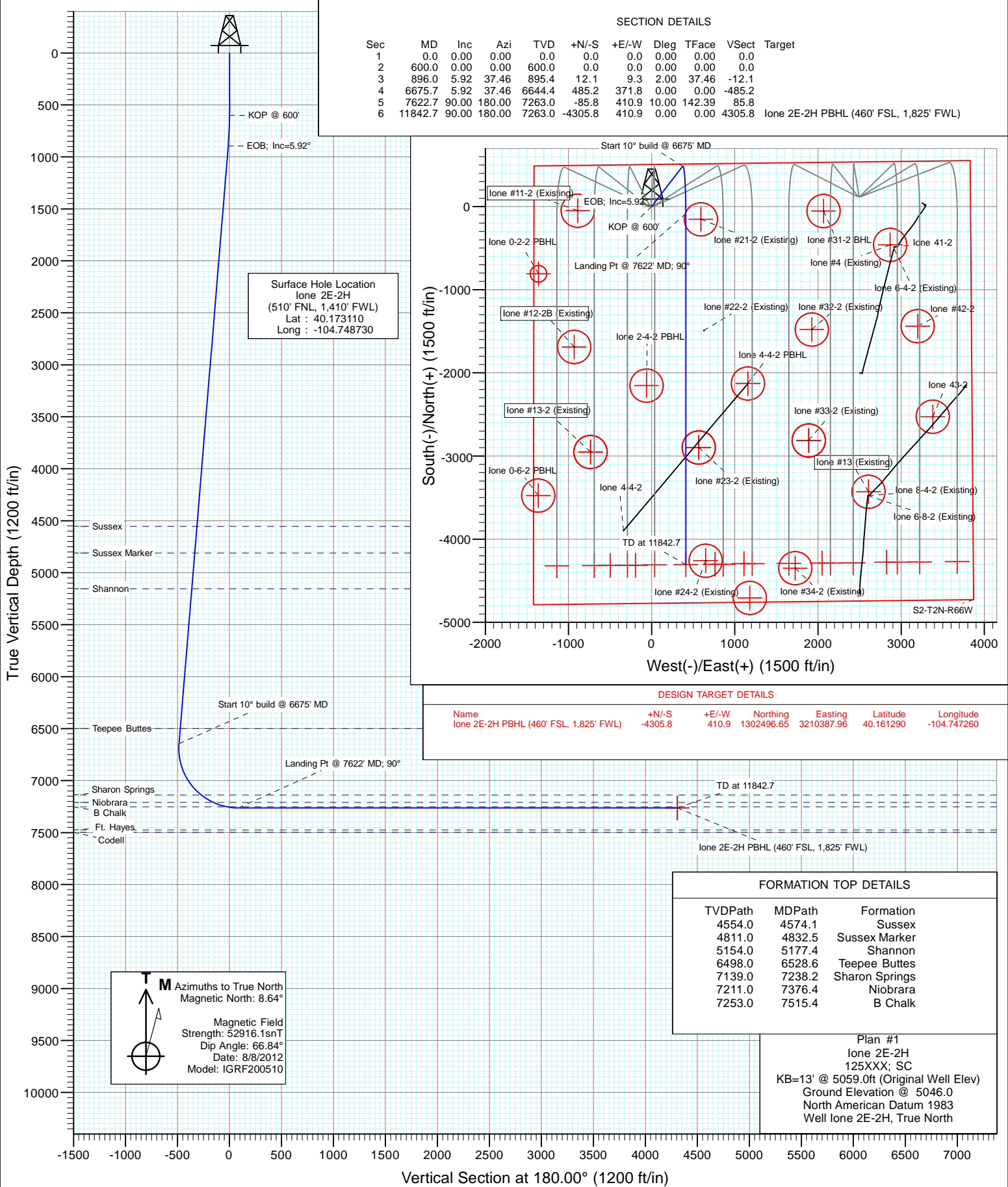
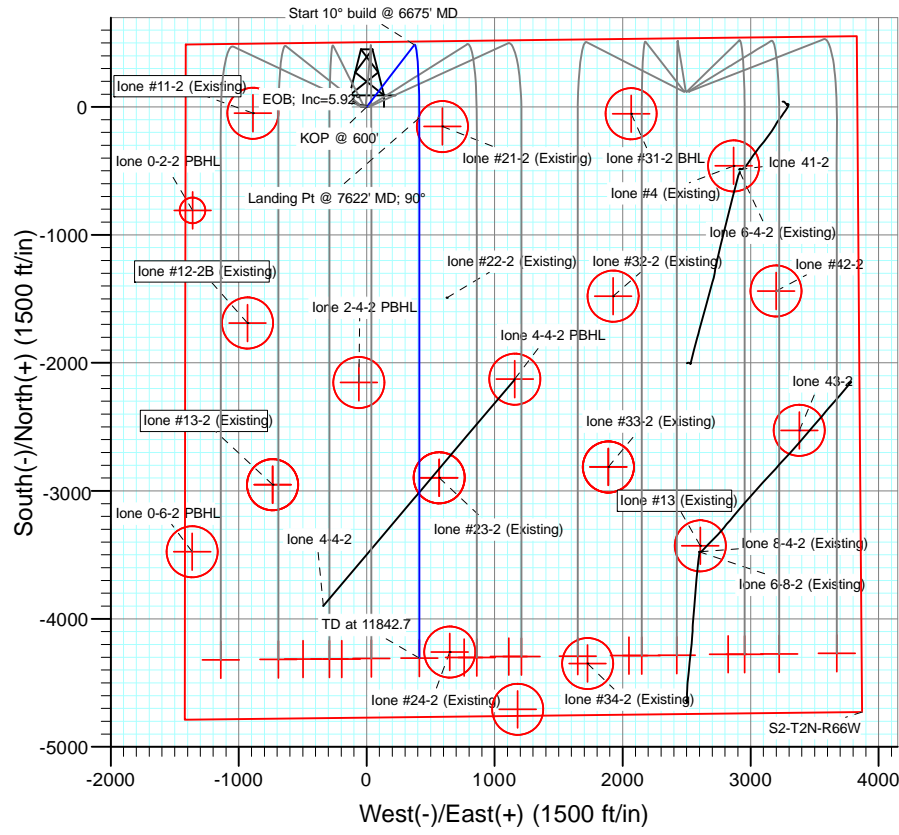




Project: DJ Wattenberg
Site: NWNE S2-T2N-R66W (lone)
Well: lone 2E-2H
Wellbore: HZ
Design: Plan #1

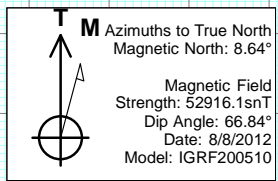


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.0	
3	896.0	5.92	37.46	895.4	12.1	9.3	2.00	37.46	-12.1	
4	6675.7	5.92	37.46	6644.4	485.2	371.8	0.00	0.00	-485.2	
5	7622.7	90.00	180.00	7263.0	-85.8	410.9	10.00	142.39	85.8	
6	11842.7	90.00	180.00	7263.0	-4305.8	410.9	0.00	0.00	4305.8	lone 2E-2H PBHL (460' FSL, 1,825' FWL)



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
lone 2E-2H PBHL (460' FSL, 1,825' FWL)	-4305.8	410.9	1302496.65	3210387.96	40.161290	-104.747260

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4554.0	4574.1	Sussex
4811.0	4832.5	Sussex Marker
5154.0	5177.4	Shannon
6498.0	6528.6	Teepee Buttes
7139.0	7238.2	Sharon Springs
7211.0	7376.4	Niobrara
7253.0	7515.4	B Chalk



Plan #1
lone 2E-2H
125XXX; SC
KB=13' @ 5059.0ft (Original Well Elev)
Ground Elevation @ 5046.0
North American Datum 1983
Well lone 2E-2H, True North

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2E-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 2E-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 2E-2H					
Well Position	+N/-S	0.0 ft	Northing:	1,306,798.80 ft	Latitude:	40.173110
	+E/-W	0.0 ft	Easting:	3,209,940.64 ft	Longitude:	-104.748730
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) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
896.0	5.92	37.46	895.4	12.1	9.3	2.00	2.00	0.00	37.46	
6,675.7	5.92	37.46	6,644.4	485.2	371.8	0.00	0.00	0.00	0.00	
7,622.7	90.00	180.00	7,263.0	-85.8	410.9	10.00	8.88	15.05	142.39	
11,842.7	90.00	180.00	7,263.0	-4,305.8	410.9	0.00	0.00	0.00	0.00	lone 2E-2H PBHL (46

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	KOP @ 600'
700.0	2.00	37.46	700.0	1.4	1.1	-1.4	2.00	2.00	
800.0	4.00	37.46	799.8	5.5	4.2	-5.5	2.00	2.00	
896.0	5.92	37.46	895.4	12.1	9.3	-12.1	2.00	2.00	EOB; Inc=5.92°
900.0	5.92	37.46	899.5	12.5	9.5	-12.5	0.00	0.00	
1,000.0	5.92	37.46	998.9	20.6	15.8	-20.6	0.00	0.00	
1,100.0	5.92	37.46	1,098.4	28.8	22.1	-28.8	0.00	0.00	
1,200.0	5.92	37.46	1,197.9	37.0	28.4	-37.0	0.00	0.00	
1,300.0	5.92	37.46	1,297.3	45.2	34.6	-45.2	0.00	0.00	
1,400.0	5.92	37.46	1,396.8	53.4	40.9	-53.4	0.00	0.00	
1,500.0	5.92	37.46	1,496.3	61.6	47.2	-61.6	0.00	0.00	
1,600.0	5.92	37.46	1,595.7	69.8	53.5	-69.8	0.00	0.00	
1,700.0	5.92	37.46	1,695.2	77.9	59.7	-77.9	0.00	0.00	
1,800.0	5.92	37.46	1,794.7	86.1	66.0	-86.1	0.00	0.00	
1,900.0	5.92	37.46	1,894.1	94.3	72.3	-94.3	0.00	0.00	
2,000.0	5.92	37.46	1,993.6	102.5	78.5	-102.5	0.00	0.00	
2,100.0	5.92	37.46	2,093.1	110.7	84.8	-110.7	0.00	0.00	
2,200.0	5.92	37.46	2,192.5	118.9	91.1	-118.9	0.00	0.00	
2,300.0	5.92	37.46	2,292.0	127.1	97.4	-127.1	0.00	0.00	
2,400.0	5.92	37.46	2,391.5	135.2	103.6	-135.2	0.00	0.00	
2,500.0	5.92	37.46	2,490.9	143.4	109.9	-143.4	0.00	0.00	
2,600.0	5.92	37.46	2,590.4	151.6	116.2	-151.6	0.00	0.00	
2,700.0	5.92	37.46	2,689.9	159.8	122.5	-159.8	0.00	0.00	
2,800.0	5.92	37.46	2,789.3	168.0	128.7	-168.0	0.00	0.00	
2,900.0	5.92	37.46	2,888.8	176.2	135.0	-176.2	0.00	0.00	
3,000.0	5.92	37.46	2,988.3	184.4	141.3	-184.4	0.00	0.00	
3,100.0	5.92	37.46	3,087.7	192.5	147.5	-192.5	0.00	0.00	
3,200.0	5.92	37.46	3,187.2	200.7	153.8	-200.7	0.00	0.00	
3,300.0	5.92	37.46	3,286.7	208.9	160.1	-208.9	0.00	0.00	
3,400.0	5.92	37.46	3,386.1	217.1	166.4	-217.1	0.00	0.00	
3,500.0	5.92	37.46	3,485.6	225.3	172.6	-225.3	0.00	0.00	
3,600.0	5.92	37.46	3,585.1	233.5	178.9	-233.5	0.00	0.00	
3,700.0	5.92	37.46	3,684.5	241.7	185.2	-241.7	0.00	0.00	
3,800.0	5.92	37.46	3,784.0	249.8	191.5	-249.8	0.00	0.00	
3,900.0	5.92	37.46	3,883.5	258.0	197.7	-258.0	0.00	0.00	
4,000.0	5.92	37.46	3,982.9	266.2	204.0	-266.2	0.00	0.00	
4,100.0	5.92	37.46	4,082.4	274.4	210.3	-274.4	0.00	0.00	
4,200.0	5.92	37.46	4,181.9	282.6	216.5	-282.6	0.00	0.00	
4,300.0	5.92	37.46	4,281.3	290.8	222.8	-290.8	0.00	0.00	
4,400.0	5.92	37.46	4,380.8	299.0	229.1	-299.0	0.00	0.00	
4,500.0	5.92	37.46	4,480.3	307.1	235.4	-307.1	0.00	0.00	
4,574.1	5.92	37.46	4,554.0	313.2	240.0	-313.2	0.00	0.00	Sussex
4,600.0	5.92	37.46	4,579.7	315.3	241.6	-315.3	0.00	0.00	
4,700.0	5.92	37.46	4,679.2	323.5	247.9	-323.5	0.00	0.00	
4,800.0	5.92	37.46	4,778.7	331.7	254.2	-331.7	0.00	0.00	
4,832.5	5.92	37.46	4,811.0	334.4	256.2	-334.4	0.00	0.00	Sussex Marker

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	5.92	37.46	4,878.1	339.9	260.5	-339.9	0.00	0.00	
5,000.0	5.92	37.46	4,977.6	348.1	266.7	-348.1	0.00	0.00	
5,100.0	5.92	37.46	5,077.1	356.3	273.0	-356.3	0.00	0.00	
5,177.4	5.92	37.46	5,154.0	362.6	277.9	-362.6	0.00	0.00	Shannon
5,200.0	5.92	37.46	5,176.5	364.4	279.3	-364.4	0.00	0.00	
5,300.0	5.92	37.46	5,276.0	372.6	285.5	-372.6	0.00	0.00	
5,400.0	5.92	37.46	5,375.5	380.8	291.8	-380.8	0.00	0.00	
5,500.0	5.92	37.46	5,474.9	389.0	298.1	-389.0	0.00	0.00	
5,600.0	5.92	37.46	5,574.4	397.2	304.4	-397.2	0.00	0.00	
5,700.0	5.92	37.46	5,673.9	405.4	310.6	-405.4	0.00	0.00	
5,800.0	5.92	37.46	5,773.3	413.6	316.9	-413.6	0.00	0.00	
5,900.0	5.92	37.46	5,872.8	421.8	323.2	-421.8	0.00	0.00	
6,000.0	5.92	37.46	5,972.3	429.9	329.5	-429.9	0.00	0.00	
6,100.0	5.92	37.46	6,071.7	438.1	335.7	-438.1	0.00	0.00	
6,200.0	5.92	37.46	6,171.2	446.3	342.0	-446.3	0.00	0.00	
6,300.0	5.92	37.46	6,270.7	454.5	348.3	-454.5	0.00	0.00	
6,400.0	5.92	37.46	6,370.1	462.7	354.5	-462.7	0.00	0.00	
6,500.0	5.92	37.46	6,469.6	470.9	360.8	-470.9	0.00	0.00	
6,528.6	5.92	37.46	6,498.0	473.2	362.6	-473.2	0.00	0.00	Teepee Buttes
6,600.0	5.92	37.46	6,569.1	479.1	367.1	-479.1	0.00	0.00	
6,675.7	5.92	37.46	6,644.4	485.2	371.8	-485.2	0.00	0.00	Start 10° build @ 6675' MD
6,700.0	4.26	57.83	6,668.6	486.7	373.4	-486.7	10.00	-6.83	
6,800.0	8.53	155.13	6,768.1	482.0	379.6	-482.0	10.00	4.27	
6,900.0	18.09	168.87	6,865.3	459.9	385.8	-459.9	10.00	9.56	
7,000.0	27.95	173.17	6,957.3	421.4	391.6	-421.4	10.00	9.86	
7,100.0	37.88	175.35	7,041.1	367.3	396.9	-367.3	10.00	9.93	
7,200.0	47.84	176.73	7,114.3	299.6	401.5	-299.6	10.00	9.96	
7,238.2	51.64	177.14	7,139.0	270.5	403.0	-270.5	10.00	9.97	Sharon Springs
7,300.0	57.80	177.72	7,174.7	220.1	405.3	-220.1	10.00	9.97	
7,376.4	65.43	178.35	7,211.0	152.9	407.6	-152.9	10.00	9.97	Niobrara
7,400.0	67.78	178.52	7,220.4	131.3	408.2	-131.3	10.00	9.98	
7,500.0	77.76	179.22	7,249.9	35.9	410.0	-35.9	10.00	9.98	
7,515.4	79.29	179.32	7,253.0	20.9	410.2	-20.9	10.00	9.98	B Chalk
7,600.0	87.74	179.86	7,262.6	-63.1	410.8	63.1	10.00	9.98	
7,622.7	90.00	180.00	7,263.0	-85.8	410.9	85.8	10.00	9.98	Landing Pt @ 7622' MD; 90°
7,700.0	90.00	180.00	7,263.0	-163.1	410.9	163.1	0.00	0.00	
7,800.0	90.00	180.00	7,263.0	-263.1	410.9	263.1	0.00	0.00	
7,900.0	90.00	180.00	7,263.0	-363.1	410.9	363.1	0.00	0.00	
8,000.0	90.00	180.00	7,263.0	-463.1	410.9	463.1	0.00	0.00	
8,100.0	90.00	180.00	7,263.0	-563.1	410.9	563.1	0.00	0.00	
8,200.0	90.00	180.00	7,263.0	-663.1	410.9	663.1	0.00	0.00	
8,300.0	90.00	180.00	7,263.0	-763.1	410.9	763.1	0.00	0.00	
8,400.0	90.00	180.00	7,263.0	-863.1	410.9	863.1	0.00	0.00	
8,500.0	90.00	180.00	7,263.0	-963.1	410.9	963.1	0.00	0.00	
8,600.0	90.00	180.00	7,263.0	-1,063.1	410.9	1,063.1	0.00	0.00	
8,700.0	90.00	180.00	7,263.0	-1,163.1	410.9	1,163.1	0.00	0.00	
8,800.0	90.00	180.00	7,263.0	-1,263.1	410.9	1,263.1	0.00	0.00	
8,900.0	90.00	180.00	7,263.0	-1,363.1	410.9	1,363.1	0.00	0.00	
9,000.0	90.00	180.00	7,263.0	-1,463.1	410.9	1,463.1	0.00	0.00	
9,100.0	90.00	180.00	7,263.0	-1,563.1	410.9	1,563.1	0.00	0.00	
9,200.0	90.00	180.00	7,263.0	-1,663.1	410.9	1,663.1	0.00	0.00	
9,300.0	90.00	180.00	7,263.0	-1,763.1	410.9	1,763.1	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	7,263.0	-1,863.1	410.9	1,863.1	0.00	0.00	
9,500.0	90.00	180.00	7,263.0	-1,963.1	410.9	1,963.1	0.00	0.00	
9,600.0	90.00	180.00	7,263.0	-2,063.1	410.9	2,063.1	0.00	0.00	
9,700.0	90.00	180.00	7,263.0	-2,163.1	410.9	2,163.1	0.00	0.00	
9,800.0	90.00	180.00	7,263.0	-2,263.1	410.9	2,263.1	0.00	0.00	
9,900.0	90.00	180.00	7,263.0	-2,363.1	410.9	2,363.1	0.00	0.00	
10,000.0	90.00	180.00	7,263.0	-2,463.1	410.9	2,463.1	0.00	0.00	
10,100.0	90.00	180.00	7,263.0	-2,563.1	410.9	2,563.1	0.00	0.00	
10,200.0	90.00	180.00	7,263.0	-2,663.1	410.9	2,663.1	0.00	0.00	
10,300.0	90.00	180.00	7,263.0	-2,763.1	410.9	2,763.1	0.00	0.00	
10,400.0	90.00	180.00	7,263.0	-2,863.1	410.9	2,863.1	0.00	0.00	
10,500.0	90.00	180.00	7,263.0	-2,963.1	410.9	2,963.1	0.00	0.00	
10,600.0	90.00	180.00	7,263.0	-3,063.1	410.9	3,063.1	0.00	0.00	
10,700.0	90.00	180.00	7,263.0	-3,163.1	410.9	3,163.1	0.00	0.00	
10,800.0	90.00	180.00	7,263.0	-3,263.1	410.9	3,263.1	0.00	0.00	
10,900.0	90.00	180.00	7,263.0	-3,363.1	410.9	3,363.1	0.00	0.00	
11,000.0	90.00	180.00	7,263.0	-3,463.1	410.9	3,463.1	0.00	0.00	
11,100.0	90.00	180.00	7,263.0	-3,563.1	410.9	3,563.1	0.00	0.00	
11,200.0	90.00	180.00	7,263.0	-3,663.1	410.9	3,663.1	0.00	0.00	
11,300.0	90.00	180.00	7,263.0	-3,763.1	410.9	3,763.1	0.00	0.00	
11,400.0	90.00	180.00	7,263.0	-3,863.1	410.9	3,863.1	0.00	0.00	
11,500.0	90.00	180.00	7,263.0	-3,963.1	410.9	3,963.1	0.00	0.00	
11,600.0	90.00	180.00	7,263.0	-4,063.1	410.9	4,063.1	0.00	0.00	
11,700.0	90.00	180.00	7,263.0	-4,163.1	410.9	4,163.1	0.00	0.00	
11,800.0	90.00	180.00	7,263.0	-4,263.1	410.9	4,263.1	0.00	0.00	
11,842.7	90.00	180.00	7,263.0	-4,305.8	410.9	4,305.8	0.00	0.00	TD at 11842.7 - lone 2E-2H PBHL (460' FSL, 1,

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
lone 2E-2H PBHL (460'	0.00	0.00	7,263.0	-4,305.8	410.9	1,302,496.65	3,210,387.96	40.161290	-104.747260
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,574.1	4,554.0	Sussex			
4,832.5	4,811.0	Sussex Marker			
5,177.4	5,154.0	Shannon			
6,528.6	6,498.0	Teepee Buttes			
7,238.2	7,139.0	Sharon Springs			
7,376.4	7,211.0	Niobrara			
7,515.4	7,253.0	B Chalk			

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2E-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 2E-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	HZ		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
600.0	600.0	0.0	0.0	KOP @ 600'
896.0	895.4	12.1	9.3	EOB; Inc=5.92°
6,675.7	6,644.4	485.2	371.8	Start 10° build @ 6675' MD
7,622.7	7,263.0	-85.8	410.9	Landing Pt @ 7622' MD; 90°
11,842.7	7,263.0	-4,305.8	410.9	TD at 11842.7

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNE S2-T2N-R66W (lone)

lone 2E-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 2E-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 2E-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	11,842.7	Plan #1 (HZ)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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 Measured Depth	Offset Measured Depth	Distance		Separation Factor	Warning
	(ft)	(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	7,690.3	7,265.5	180.6	154.2	6.842	CC, ES, SF
lone #22-2 (Existing) - DD - Plan #1	9,027.2	7,282.0	214.9	171.4	4.949	CC, ES, SF
lone #23-2 (Existing) - DD - Plan #1	10,434.4	7,278.0	155.4	88.6	2.327	CC, ES, SF
lone #24-2 (Existing) - DD - Plan #1	11,795.6	7,296.0	238.1	147.9	2.640	CC
lone #24-2 (Existing) - DD - Plan #1	11,800.0	7,296.0	238.2	147.9	2.638	ES, SF
lone #3 (Existing) - DD - DD	0.0	0.0	39.2			
lone #3 (Existing) - DD - DD	800.0	797.5	48.8	46.7	23.620	SF
lone #3 (Existing) - DD - Plan #1	600.0	598.0	39.1	37.1	19.158	CC, ES
lone #3 (Existing) - DD - Plan #1	800.0	797.8	43.7	41.0	15.931	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	39.1	38.5	59.934	CC, ES
lone 2A-2H - HZ - Plan #1	600.0	592.6	65.0	62.9	30.388	SF
lone 2B-2H - HZ - Plan #1	400.0	400.0	30.7	29.4	22.755	CC, ES
lone 2B-2H - HZ - Plan #1	600.0	598.0	36.4	34.4	17.686	SF
lone 2C-2H - HZ - Plan #1	600.0	600.0	19.6	17.5	9.547	CC, ES
lone 2C-2H - HZ - Plan #1	700.0	700.0	20.7	18.3	8.617	SF
lone 2D-2H - HZ - Plan #1	600.0	600.0	8.4	6.3	4.091	CC, ES
lone 2D-2H - HZ - Plan #1	11,842.7	12,079.8	452.5	321.1	3.444	SF
lone 2F-2H - HZ - Plan #1	400.0	400.0	11.2	9.8	8.274	CC, ES
lone 2F-2H - HZ - Plan #1	500.0	499.6	12.7	11.0	7.462	SF
lone 2G-2H - HZ - Plan #1	200.0	200.0	19.6	18.9	29.967	CC, ES
lone 2G-2H - HZ - Plan #1	400.0	398.4	26.0	24.7	19.262	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 lone 2E-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 2E-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		
7,200.0	7,114.3	7,115.3	7,115.3	15.2	12.4	-27.81	-153.3	591.6	491.2	468.3	22.92	21.432		
7,300.0	7,174.7	7,175.7	7,175.7	15.0	12.5	-40.20	-153.3	591.6	417.3	394.6	22.71	18.373		
7,400.0	7,220.4	7,221.4	7,221.4	14.9	12.6	-58.14	-153.3	591.6	338.6	314.7	23.94	14.148		
7,500.0	7,249.9	7,250.9	7,250.9	14.9	12.6	-77.20	-153.3	591.6	262.3	236.9	25.41	10.324		
7,600.0	7,262.6	7,263.6	7,263.6	15.2	12.7	-88.86	-153.3	591.6	202.0	176.0	25.98	7.777		
7,690.3	7,264.5	7,265.5	7,265.5	15.5	12.7	-90.00	-153.3	591.6	180.6	154.2	26.40	6.842	CC, ES, SF	
7,700.0	7,263.0	7,264.0	7,264.0	15.6	12.7	-90.00	-153.3	591.6	181.0	154.5	26.45	6.844		
7,800.0	7,263.0	7,264.0	7,264.0	16.2	12.7	-90.00	-153.3	591.6	211.5	184.3	27.12	7.797		
7,900.0	7,263.0	7,264.0	7,264.0	16.9	12.7	-90.00	-153.3	591.6	276.9	248.9	27.97	9.901		
8,000.0	7,263.0	7,264.0	7,264.0	17.8	12.7	-90.00	-153.3	591.6	358.6	329.7	28.96	12.385		
8,100.0	7,263.0	7,264.0	7,264.0	18.9	12.7	-90.00	-153.3	591.6	447.9	417.8	30.07	14.894		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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		
8,600.0	7,263.0	7,282.0	7,282.0	25.2	12.7	-90.00	-1,490.3	625.7	478.1	441.3	36.83	12.982		
8,700.0	7,263.0	7,282.0	7,282.0	26.6	12.7	-90.00	-1,490.3	625.7	391.4	353.1	38.33	10.212		
8,800.0	7,263.0	7,282.0	7,282.0	28.1	12.7	-90.00	-1,490.3	625.7	312.7	272.8	39.85	7.846		
8,900.0	7,263.0	7,282.0	7,282.0	29.6	12.7	-90.00	-1,490.3	625.7	249.7	208.3	41.40	6.030		
9,000.0	7,263.0	7,282.0	7,282.0	31.1	12.7	-90.00	-1,490.3	625.7	216.6	173.6	42.98	5.039		
9,027.2	7,263.0	7,282.0	7,282.0	31.6	12.7	-90.00	-1,490.3	625.7	214.9	171.4	43.41	4.949	CC, ES, SF	
9,100.0	7,263.0	7,282.0	7,282.0	32.7	12.7	-90.00	-1,490.3	625.7	226.9	182.3	44.57	5.090		
9,200.0	7,263.0	7,282.0	7,282.0	34.3	12.7	-90.00	-1,490.3	625.7	275.8	229.6	46.18	5.971		
9,300.0	7,263.0	7,282.0	7,282.0	35.9	12.7	-90.00	-1,490.3	625.7	347.3	299.5	47.80	7.265		
9,400.0	7,263.0	7,282.0	7,282.0	37.5	12.7	-90.00	-1,490.3	625.7	430.3	380.9	49.44	8.704		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	
10,000.0	7,263.0	7,278.0	7,278.0	47.3	12.7	-90.00	-2,897.5	566.2	461.3	401.9	59.42	7.764	
10,100.0	7,263.0	7,278.0	7,278.0	49.0	12.7	-90.00	-2,897.5	566.2	368.7	307.6	61.11	6.034	
10,200.0	7,263.0	7,278.0	7,278.0	50.6	12.7	-90.00	-2,897.5	566.2	281.2	218.4	62.80	4.478	
10,300.0	7,263.0	7,278.0	7,278.0	52.3	12.7	-90.00	-2,897.5	566.2	205.4	140.9	64.50	3.185	
10,400.0	7,263.0	7,278.0	7,278.0	54.0	12.7	-90.00	-2,897.5	566.2	159.1	92.9	66.20	2.404	
10,434.4	7,263.0	7,278.0	7,278.0	54.6	12.7	-90.00	-2,897.5	566.2	155.4	88.6	66.78	2.327	CC, ES, SF
10,500.0	7,263.0	7,278.0	7,278.0	55.7	12.7	-90.00	-2,897.5	566.2	168.7	100.8	67.90	2.484	
10,600.0	7,263.0	7,278.0	7,278.0	57.4	12.7	-90.00	-2,897.5	566.2	227.1	157.5	69.60	3.263	
10,700.0	7,263.0	7,278.0	7,278.0	59.1	12.7	-90.00	-2,897.5	566.2	307.7	236.4	71.31	4.315	
10,800.0	7,263.0	7,278.0	7,278.0	60.8	12.7	-90.00	-2,897.5	566.2	397.3	324.2	73.02	5.440	
10,900.0	7,263.0	7,278.0	7,278.0	62.5	12.7	-90.00	-2,897.5	566.2	490.9	416.1	74.74	6.568	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 2E-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 2E-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		
11,400.0	7,263.0	7,296.0	7,296.0	71.0	12.7	-90.00	-4,258.8	649.0	461.8	378.4	83.37	5.539		
11,500.0	7,263.0	7,296.0	7,296.0	72.7	12.7	-90.00	-4,258.8	649.0	379.7	294.6	85.09	4.462		
11,600.0	7,263.0	7,296.0	7,296.0	74.5	12.7	-90.00	-4,258.8	649.0	308.2	221.4	86.82	3.550		
11,700.0	7,263.0	7,296.0	7,296.0	76.2	12.7	-90.00	-4,258.8	649.0	256.6	168.1	88.55	2.898		
11,795.6	7,263.0	7,296.0	7,296.0	77.8	12.7	-90.00	-4,258.8	649.0	238.1	147.9	90.20	2.640 CC		
11,800.0	7,263.0	7,296.0	7,296.0	77.9	12.7	-90.00	-4,258.8	649.0	238.2	147.9	90.28	2.638 ES, SF		
11,842.7	7,263.0	7,296.0	7,296.0	78.6	12.7	-90.00	-4,258.8	649.0	242.7	151.7	91.01	2.667		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	-39.1	39.2					
100.0	100.0	97.4	97.4	0.2	0.1	-89.72	0.2	-39.9	39.9	39.6	0.22	177.429		
200.0	200.0	197.7	197.7	0.3	0.2	-88.94	0.8	-41.0	41.0	40.5	0.49	84.198		
300.0	300.0	297.9	297.9	0.5	0.2	-87.92	1.5	-41.4	41.5	40.7	0.75	55.380		
400.0	400.0	397.8	397.7	0.7	0.3	-87.67	1.7	-41.9	41.9	40.9	1.01	41.482		
500.0	500.0	497.7	497.7	0.8	0.4	-87.51	1.8	-42.5	42.6	41.3	1.27	33.458		
600.0	600.0	597.8	597.8	1.0	0.5	-86.41	2.7	-43.1	43.2	41.7	1.53	28.142		
700.0	700.0	697.6	697.6	1.2	0.6	-124.79	3.5	-43.7	44.8	43.0	1.80	24.959		
800.0	799.8	797.5	797.5	1.4	0.7	-129.01	4.1	-44.5	48.8	46.7	2.06	23.620 SF		
900.0	899.5	897.2	897.1	1.6	0.8	-135.06	5.0	-45.2	55.3	52.9	2.34	23.624		
1,000.0	998.9	996.8	996.7	1.8	0.9	-140.85	5.8	-45.8	63.4	60.8	2.61	24.259		
1,100.0	1,098.4	1,096.3	1,096.2	2.0	0.9	-145.27	6.6	-46.4	72.0	69.1	2.89	24.927		
1,200.0	1,197.9	1,196.3	1,196.2	2.3	1.0	-149.34	6.8	-46.3	80.6	77.4	3.16	25.534		
1,300.0	1,297.3	1,295.9	1,295.8	2.5	1.1	-152.71	7.0	-45.9	89.1	85.7	3.42	26.050		
1,400.0	1,396.8	1,394.8	1,394.7	2.7	1.2	-155.01	7.8	-46.0	98.1	94.4	3.69	26.618		
1,500.0	1,496.3	1,494.1	1,494.1	3.0	1.3	-156.99	8.3	-46.4	107.7	103.8	3.95	27.260		
1,600.0	1,595.7	1,593.8	1,593.7	3.2	1.4	-158.63	8.8	-46.9	117.4	113.2	4.22	27.846		
1,700.0	1,695.2	1,693.3	1,693.2	3.5	1.5	-159.98	9.5	-47.3	127.0	122.5	4.48	28.360		
1,800.0	1,794.7	1,792.7	1,792.6	3.7	1.6	-161.15	10.1	-47.7	136.7	132.0	4.74	28.838		
1,900.0	1,894.1	1,891.4	1,891.3	3.9	1.6	-162.15	10.6	-48.3	146.8	141.8	5.00	29.340		
2,000.0	1,993.6	1,991.3	1,991.2	4.2	1.7	-163.01	11.0	-49.1	157.1	151.8	5.27	29.827		
2,100.0	2,093.1	2,090.6	2,090.5	4.4	1.8	-163.72	11.6	-49.9	167.3	161.7	5.53	30.241		
2,200.0	2,192.5	2,189.7	2,189.6	4.7	1.9	-164.28	12.3	-50.9	177.6	171.8	5.79	30.646		
2,300.0	2,292.0	2,288.7	2,288.6	4.9	2.0	-164.77	12.8	-52.1	188.1	182.1	6.06	31.058		
2,400.0	2,391.5	2,387.9	2,387.8	5.2	2.1	-165.24	13.2	-53.4	198.9	192.6	6.32	31.465		
2,500.0	2,490.9	2,486.9	2,486.7	5.4	2.2	-165.67	13.4	-54.7	209.8	203.2	6.58	31.863		
2,600.0	2,590.4	2,587.1	2,587.0	5.7	2.3	-166.06	13.7	-56.1	220.7	213.8	6.85	32.225		
2,700.0	2,689.9	2,686.0	2,685.9	5.9	2.3	-166.35	14.3	-57.5	231.4	224.3	7.11	32.537		
2,800.0	2,789.3	2,785.6	2,785.5	6.2	2.4	-166.56	15.0	-59.1	242.3	234.9	7.38	32.841		
2,900.0	2,888.8	2,884.2	2,884.1	6.4	2.5	-166.72	15.7	-60.8	253.2	245.5	7.64	33.132		
3,000.0	2,988.3	2,983.5	2,983.3	6.7	2.6	-166.85	16.3	-62.8	264.3	256.4	7.91	33.430		
3,100.0	3,087.7	3,083.5	3,083.3	6.9	2.7	-166.98	17.0	-64.7	275.4	267.2	8.17	33.695		
3,200.0	3,187.2	3,184.1	3,183.9	7.2	2.8	-167.10	17.9	-66.3	286.1	277.7	8.44	33.902		
3,300.0	3,286.7	3,282.5	3,282.2	7.4	2.9	-167.20	18.9	-67.9	296.8	288.1	8.70	34.092		
3,400.0	3,386.1	3,383.7	3,383.4	7.7	3.0	-167.30	19.9	-69.5	307.5	298.5	8.97	34.268		
3,500.0	3,485.6	3,484.2	3,483.9	7.9	3.0	-167.36	21.4	-70.8	317.5	308.3	9.24	34.369		
3,600.0	3,585.1	3,582.1	3,581.8	8.2	3.1	-167.32	23.1	-72.4	327.7	318.2	9.51	34.470		
3,700.0	3,684.5	3,682.7	3,682.3	8.4	3.2	-167.14	25.5	-74.8	338.1	328.3	9.78	34.569		
3,800.0	3,784.0	3,779.8	3,779.3	8.7	3.3	-166.95	27.9	-77.2	348.4	338.4	10.05	34.669		
3,900.0	3,883.5	3,880.1	3,879.6	8.9	3.4	-166.82	29.9	-79.8	359.2	348.9	10.32	34.804		
4,000.0	3,982.9	3,978.5	3,978.0	9.2	3.5	-166.75	31.6	-81.9	369.9	359.3	10.59	34.923		
4,100.0	4,082.4	4,077.5	4,077.0	9.4	3.6	-166.71	33.1	-84.3	380.8	369.9	10.86	35.064		
4,200.0	4,181.9	4,177.0	4,176.4	9.7	3.7	-166.70	34.4	-86.5	391.7	380.6	11.13	35.200		
4,300.0	4,281.3	4,276.3	4,275.7	9.9	3.8	-166.71	35.6	-88.6	402.6	391.2	11.40	35.329		
4,400.0	4,380.8	4,376.6	4,375.9	10.2	3.8	-166.70	37.0	-90.8	413.5	401.8	11.67	35.444		
4,500.0	4,480.3	4,475.8	4,475.1	10.4	3.9	-166.71	38.3	-92.8	424.2	412.3	11.93	35.547		
4,600.0	4,579.7	4,576.8	4,576.1	10.7	4.0	-166.74	39.6	-94.7	434.9	422.7	12.20	35.637		
4,700.0	4,679.2	4,677.9	4,677.2	10.9	4.1	-166.79	41.0	-96.0	445.1	432.6	12.47	35.690		
4,800.0	4,778.7	4,778.7	4,777.9	11.2	4.2	-166.88	42.4	-97.0	455.0	442.2	12.74	35.721		
4,900.0	4,878.1	4,879.6	4,878.9	11.4	4.3	-166.99	43.9	-97.6	464.6	451.6	13.00	35.731		
5,000.0	4,977.6	4,978.6	4,977.8	11.7	4.4	-167.10	45.3	-98.0	474.1	460.8	13.27	35.736		
5,100.0	5,077.1	5,078.4	5,077.6	11.9	4.5	-167.23	46.5	-98.5	483.7	470.2	13.53	35.748		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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							
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)				
5,200.0	5,176.5	5,178.2	5,177.4	12.2	4.6	-167.36	47.7	-98.8	493.2	479.4	13.79	35.755		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	-39.1	39.2					
100.0	100.0	98.0	98.0	0.2	0.1	-89.96	0.0	-39.1	39.1	38.8	0.30	131.622		
200.0	200.0	198.0	198.0	0.3	0.3	-89.96	0.0	-39.1	39.1	38.5	0.65	60.582		
300.0	300.0	298.0	298.0	0.5	0.5	-89.96	0.0	-39.1	39.1	38.1	0.99	39.325		
400.0	400.0	398.0	398.0	0.7	0.7	-89.96	0.0	-39.1	39.1	37.8	1.34	29.111		
500.0	500.0	498.0	498.0	0.8	0.8	-89.96	0.0	-39.1	39.1	37.4	1.69	23.109		
600.0	600.0	598.0	598.0	1.0	1.0	-89.96	0.0	-39.1	39.1	37.1	2.04	19.158 CC, ES		
700.0	700.0	698.0	698.0	1.2	1.2	-129.38	0.0	-39.1	40.2	37.8	2.39	16.811		
800.0	799.8	797.8	797.8	1.4	1.4	-134.64	0.0	-39.1	43.7	41.0	2.74	15.931 SF		
900.0	899.5	897.5	897.5	1.6	1.5	-141.64	0.0	-39.1	50.2	47.1	3.10	16.209		
1,000.0	998.9	996.9	996.9	1.8	1.7	-147.89	0.0	-39.1	58.7	55.2	3.45	16.991		
1,100.0	1,098.4	1,096.4	1,096.4	2.0	1.9	-152.54	0.0	-39.1	67.6	63.8	3.81	17.774		
1,200.0	1,197.9	1,195.9	1,195.9	2.3	2.1	-156.08	0.0	-39.1	77.0	72.8	4.16	18.514		
1,300.0	1,297.3	1,295.3	1,295.3	2.5	2.2	-158.85	0.0	-39.1	86.5	82.0	4.51	19.195		
1,400.0	1,396.8	1,394.8	1,394.8	2.7	2.4	-161.06	0.0	-39.1	96.2	91.3	4.85	19.815		
1,500.0	1,496.3	1,494.3	1,494.3	3.0	2.6	-162.87	0.0	-39.1	106.0	100.8	5.20	20.376		
1,600.0	1,595.7	1,593.7	1,593.7	3.2	2.8	-164.37	0.0	-39.1	115.9	110.3	5.55	20.885		
1,700.0	1,695.2	1,693.2	1,693.2	3.5	2.9	-165.64	0.0	-39.1	125.9	120.0	5.90	21.345		
1,800.0	1,794.7	1,792.7	1,792.7	3.7	3.1	-166.71	0.0	-39.1	135.9	129.6	6.24	21.763		
1,900.0	1,894.1	1,892.1	1,892.1	3.9	3.3	-167.64	0.0	-39.1	145.9	139.4	6.59	22.143		
2,000.0	1,993.6	1,991.6	1,991.6	4.2	3.4	-168.45	0.0	-39.1	156.0	149.1	6.94	22.490		
2,100.0	2,093.1	2,091.1	2,091.1	4.4	3.6	-169.17	0.0	-39.1	166.2	158.9	7.28	22.808		
2,200.0	2,192.5	2,190.5	2,190.5	4.7	3.8	-169.80	0.0	-39.1	176.3	168.7	7.63	23.100		
2,300.0	2,292.0	2,290.0	2,290.0	4.9	4.0	-170.36	0.0	-39.1	186.5	178.5	7.98	23.369		
2,400.0	2,391.5	2,389.5	2,389.5	5.2	4.1	-170.86	0.0	-39.1	196.6	188.3	8.33	23.618		
2,500.0	2,490.9	2,488.9	2,488.9	5.4	4.3	-171.31	0.0	-39.1	206.8	198.1	8.67	23.848		
2,600.0	2,590.4	2,588.4	2,588.4	5.7	4.5	-171.73	0.0	-39.1	217.0	208.0	9.02	24.061		
2,700.0	2,689.9	2,687.9	2,687.9	5.9	4.7	-172.10	0.0	-39.1	227.2	217.9	9.37	24.260		
2,800.0	2,789.3	2,787.3	2,787.3	6.2	4.8	-172.44	0.0	-39.1	237.5	227.7	9.71	24.445		
2,900.0	2,888.8	2,886.8	2,886.8	6.4	5.0	-172.76	0.0	-39.1	247.7	237.6	10.06	24.619		
3,000.0	2,988.3	2,986.3	2,986.3	6.7	5.2	-173.04	0.0	-39.1	257.9	247.5	10.41	24.781		
3,100.0	3,087.7	3,085.7	3,085.7	6.9	5.4	-173.31	0.0	-39.1	268.2	257.4	10.76	24.933		
3,200.0	3,187.2	3,185.2	3,185.2	7.2	5.5	-173.56	0.0	-39.1	278.4	267.3	11.10	25.076		
3,300.0	3,286.7	3,284.7	3,284.7	7.4	5.7	-173.79	0.0	-39.1	288.7	277.2	11.45	25.211		
3,400.0	3,386.1	3,384.1	3,384.1	7.7	5.9	-174.00	0.0	-39.1	298.9	287.1	11.80	25.339		
3,500.0	3,485.6	3,483.6	3,483.6	7.9	6.1	-174.20	0.0	-39.1	309.2	297.0	12.14	25.459		
3,600.0	3,585.1	3,583.1	3,583.1	8.2	6.2	-174.39	0.0	-39.1	319.4	306.9	12.49	25.573		
3,700.0	3,684.5	3,682.5	3,682.5	8.4	6.4	-174.56	0.0	-39.1	329.7	316.9	12.84	25.680		
3,800.0	3,784.0	3,782.0	3,782.0	8.7	6.6	-174.73	0.0	-39.1	340.0	326.8	13.19	25.783		
3,900.0	3,883.5	3,881.5	3,881.5	8.9	6.7	-174.88	0.0	-39.1	350.2	336.7	13.53	25.880		
4,000.0	3,982.9	3,980.9	3,980.9	9.2	6.9	-175.03	0.0	-39.1	360.5	346.6	13.88	25.973		
4,100.0	4,082.4	4,080.4	4,080.4	9.4	7.1	-175.17	0.0	-39.1	370.8	356.6	14.23	26.061		
4,200.0	4,181.9	4,179.9	4,179.9	9.7	7.3	-175.30	0.0	-39.1	381.1	366.5	14.58	26.145		
4,300.0	4,281.3	4,279.3	4,279.3	9.9	7.4	-175.42	0.0	-39.1	391.3	376.4	14.92	26.225		
4,400.0	4,380.8	4,378.8	4,378.8	10.2	7.6	-175.54	0.0	-39.1	401.6	386.4	15.27	26.302		
4,500.0	4,480.3	4,478.3	4,478.3	10.4	7.8	-175.65	0.0	-39.1	411.9	396.3	15.62	26.375		
4,600.0	4,579.7	4,577.7	4,577.7	10.7	8.0	-175.76	0.0	-39.1	422.2	406.2	15.96	26.445		
4,700.0	4,679.2	4,677.2	4,677.2	10.9	8.1	-175.86	0.0	-39.1	432.5	416.2	16.31	26.512		
4,800.0	4,778.7	4,776.7	4,776.7	11.2	8.3	-175.95	0.0	-39.1	442.8	426.1	16.66	26.577		
4,900.0	4,878.1	4,876.1	4,876.1	11.4	8.5	-176.05	0.0	-39.1	453.1	436.0	17.01	26.639		
5,000.0	4,977.6	4,975.6	4,975.6	11.7	8.7	-176.13	0.0	-39.1	463.3	446.0	17.35	26.698		
5,100.0	5,077.1	5,075.1	5,075.1	11.9	8.8	-176.22	0.0	-39.1	473.6	455.9	17.70	26.756		

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 2E-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 2E-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		
5,200.0	5,176.5	5,174.5	5,174.5	12.2	9.0	-176.30	0.0	-39.1	483.9	465.9	18.05	26.811		
5,300.0	5,276.0	5,274.0	5,274.0	12.4	9.2	-176.38	0.0	-39.1	494.2	475.8	18.40	26.864		
7,300.0	7,174.7	7,172.7	7,172.7	15.0	12.5	76.61	0.0	-39.1	495.9	470.9	24.98	19.849		
7,400.0	7,220.4	7,218.4	7,218.4	14.9	12.6	84.26	0.0	-39.1	466.2	440.7	25.43	18.334		
7,500.0	7,249.9	7,247.9	7,247.9	14.9	12.6	89.20	0.0	-39.1	450.6	424.9	25.68	17.548		
7,532.0	7,255.8	7,253.8	7,253.8	15.0	12.6	90.00	0.0	-39.1	449.5	423.8	25.78	17.438		
7,600.0	7,262.6	7,260.6	7,260.6	15.2	12.6	90.32	0.0	-39.1	454.4	428.4	25.97	17.496		
7,700.0	7,263.0	7,261.0	7,261.0	15.6	12.6	90.00	0.0	-39.1	478.6	452.2	26.44	18.102		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 2E-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 2E-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 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	-89.99	0.0	-39.1	39.1					
100.0	100.0	100.0	100.0	0.2	0.2	-89.99	0.0	-39.1	39.1	38.8	0.30	128.823		
200.0	200.0	200.0	200.0	0.3	0.3	-89.99	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	-88.98	0.7	-40.7	40.7	39.7	1.00	40.590		
400.0	400.0	397.2	397.1	0.7	0.7	-86.35	2.9	-45.3	45.5	44.1	1.36	33.333		
500.0	500.0	495.3	494.8	0.8	0.9	-83.03	6.5	-52.9	53.5	51.8	1.74	30.731		
600.0	600.0	592.6	591.4	1.0	1.2	-79.80	11.4	-63.4	65.0	62.9	2.14	30.388	SF	
700.0	700.0	689.0	686.6	1.2	1.5	-115.32	17.7	-76.8	80.7	78.3	2.40	33.669		
800.0	799.8	786.7	782.8	1.4	1.8	-115.41	24.9	-92.3	99.9	97.1	2.76	36.232		
900.0	899.5	884.5	879.1	1.6	2.1	-116.87	32.2	-107.7	120.7	117.5	3.14	38.427		
1,000.0	998.9	982.0	975.1	1.8	2.5	-118.74	39.5	-123.2	142.3	138.7	3.54	40.164		
1,100.0	1,098.4	1,079.6	1,071.2	2.0	2.8	-120.11	46.7	-138.7	164.0	160.1	3.95	41.483		
1,200.0	1,197.9	1,177.1	1,167.2	2.3	3.1	-121.16	54.0	-154.1	185.8	181.4	4.37	42.512		
1,300.0	1,297.3	1,274.7	1,263.2	2.5	3.5	-122.00	61.2	-169.6	207.6	202.8	4.79	43.332		
1,400.0	1,396.8	1,372.2	1,359.3	2.7	3.8	-122.67	68.5	-185.0	229.5	224.3	5.22	44.000		
1,500.0	1,496.3	1,469.7	1,455.3	3.0	4.2	-123.23	75.7	-200.5	251.4	245.8	5.64	44.552		
1,600.0	1,595.7	1,567.3	1,551.4	3.2	4.5	-123.69	83.0	-215.9	273.3	267.3	6.07	45.017		
1,700.0	1,695.2	1,664.8	1,647.4	3.5	4.9	-124.09	90.3	-231.4	295.3	288.8	6.50	45.412		
1,800.0	1,794.7	1,762.4	1,743.5	3.7	5.2	-124.44	97.5	-246.8	317.2	310.3	6.93	45.751		
1,900.0	1,894.1	1,859.9	1,839.5	3.9	5.5	-124.73	104.8	-262.3	339.1	331.8	7.37	46.047		
2,000.0	1,993.6	1,957.5	1,935.5	4.2	5.9	-125.00	112.0	-277.7	361.1	353.3	7.80	46.305		
2,100.0	2,093.1	2,055.0	2,031.6	4.4	6.2	-125.23	119.3	-293.2	383.1	374.8	8.23	46.534		
2,200.0	2,192.5	2,152.6	2,127.6	4.7	6.6	-125.44	126.5	-308.6	405.0	396.4	8.67	46.737		
2,300.0	2,292.0	2,250.1	2,223.7	4.9	6.9	-125.62	133.8	-324.1	427.0	417.9	9.10	46.919		
2,400.0	2,391.5	2,347.7	2,319.7	5.2	7.3	-125.79	141.0	-339.6	449.0	439.5	9.54	47.083		
2,500.0	2,490.9	2,445.2	2,415.7	5.4	7.6	-125.94	148.3	-355.0	471.0	461.0	9.97	47.231		
2,600.0	2,590.4	2,542.8	2,511.8	5.7	8.0	-126.08	155.5	-370.5	493.0	482.6	10.41	47.365		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	-89.97	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	CC, ES	
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		
500.0	500.0	499.1	499.1	0.8	0.9	-88.07	1.1	-32.1	32.1	30.4	1.70	18.887		
600.0	600.0	598.0	597.9	1.0	1.0	-83.28	4.3	-36.1	36.4	34.4	2.06	17.686	SF	
700.0	700.0	696.4	695.9	1.2	1.2	-116.79	9.5	-42.8	44.8	42.4	2.40	18.617		
800.0	799.8	794.9	793.7	1.4	1.5	-115.87	16.6	-51.7	57.4	54.6	2.77	20.711		
900.0	899.5	893.8	891.9	1.6	1.7	-117.57	23.9	-61.0	71.9	68.7	3.16	22.763		
1,000.0	998.9	992.6	990.0	1.8	2.0	-119.79	31.2	-70.3	87.2	83.7	3.56	24.491		
1,100.0	1,098.4	1,091.4	1,088.0	2.0	2.2	-121.35	38.5	-79.6	102.7	98.7	3.97	25.834		
1,200.0	1,197.9	1,190.1	1,186.1	2.3	2.5	-122.50	45.9	-88.9	118.1	113.7	4.39	26.901		
1,300.0	1,297.3	1,288.9	1,284.2	2.5	2.7	-123.39	53.2	-98.1	133.7	128.8	4.81	27.766		
1,400.0	1,396.8	1,387.7	1,382.2	2.7	3.0	-124.09	60.5	-107.4	149.2	144.0	5.24	28.479		
1,500.0	1,496.3	1,486.4	1,480.3	3.0	3.3	-124.65	67.8	-116.7	164.8	159.1	5.67	29.076		
1,600.0	1,595.7	1,585.2	1,578.3	3.2	3.5	-125.12	75.2	-126.0	180.4	174.3	6.10	29.582		
1,700.0	1,695.2	1,684.0	1,676.4	3.5	3.8	-125.52	82.5	-135.3	195.9	189.4	6.53	30.016		
1,800.0	1,794.7	1,782.7	1,774.5	3.7	4.1	-125.86	89.8	-144.5	211.5	204.6	6.96	30.392		
1,900.0	1,894.1	1,881.5	1,872.5	3.9	4.3	-126.15	97.1	-153.8	227.1	219.7	7.39	30.721		
2,000.0	1,993.6	1,980.3	1,970.6	4.2	4.6	-126.40	104.5	-163.1	242.8	234.9	7.83	31.011		
2,100.0	2,093.1	2,079.1	2,068.6	4.4	4.9	-126.62	111.8	-172.4	258.4	250.1	8.26	31.268		
2,200.0	2,192.5	2,177.8	2,166.7	4.7	5.1	-126.82	119.1	-181.7	274.0	265.3	8.70	31.498		
2,300.0	2,292.0	2,276.6	2,264.7	4.9	5.4	-126.99	126.4	-190.9	289.6	280.5	9.13	31.705		
2,400.0	2,391.5	2,375.4	2,362.8	5.2	5.7	-127.15	133.7	-200.2	305.2	295.6	9.57	31.891		
2,500.0	2,490.9	2,474.1	2,460.9	5.4	5.9	-127.30	141.1	-209.5	320.8	310.8	10.01	32.061		
2,600.0	2,590.4	2,572.9	2,558.9	5.7	6.2	-127.42	148.4	-218.8	336.5	326.0	10.44	32.215		
2,700.0	2,689.9	2,671.7	2,657.0	5.9	6.5	-127.54	155.7	-228.1	352.1	341.2	10.88	32.356		
2,800.0	2,789.3	2,770.4	2,755.0	6.2	6.7	-127.65	163.0	-237.4	367.7	356.4	11.32	32.486		
2,900.0	2,888.8	2,869.2	2,853.1	6.4	7.0	-127.75	170.4	-246.6	383.3	371.6	11.76	32.606		
3,000.0	2,988.3	2,968.0	2,951.2	6.7	7.3	-127.84	177.7	-255.9	399.0	386.8	12.20	32.716		
3,100.0	3,087.7	3,066.7	3,049.2	6.9	7.5	-127.92	185.0	-265.2	414.6	402.0	12.63	32.819		
3,200.0	3,187.2	3,165.5	3,147.3	7.2	7.8	-128.00	192.3	-274.5	430.2	417.2	13.07	32.914		
3,300.0	3,286.7	3,264.3	3,245.3	7.4	8.1	-128.08	199.6	-283.8	445.9	432.4	13.51	33.003		
3,400.0	3,386.1	3,363.1	3,343.4	7.7	8.3	-128.14	207.0	-293.0	461.5	447.5	13.95	33.086		
3,500.0	3,485.6	3,461.8	3,441.5	7.9	8.6	-128.21	214.3	-302.3	477.1	462.7	14.39	33.163		
3,600.0	3,585.1	3,560.6	3,539.5	8.2	8.9	-128.27	221.6	-311.6	492.8	477.9	14.83	33.236		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.98	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-19.6	19.6	19.3	0.30	64.412		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-19.6	19.6	18.9	0.65	29.967		
300.0	300.0	300.0	300.0	0.5	0.5	-89.98	0.0	-19.6	19.6	18.6	1.00	19.525		
400.0	400.0	400.0	400.0	0.7	0.7	-89.98	0.0	-19.6	19.6	18.2	1.35	14.480		
500.0	500.0	500.0	500.0	0.8	0.8	-89.98	0.0	-19.6	19.6	17.9	1.70	11.507		
600.0	600.0	600.0	600.0	1.0	1.0	-89.98	0.0	-19.6	19.6	17.5	2.05	9.547 CC, ES		
700.0	700.0	700.0	700.0	1.2	1.2	-131.26	0.0	-19.6	20.7	18.3	2.40	8.617 SF		
800.0	799.8	799.8	799.8	1.4	1.4	-140.47	0.0	-19.6	24.4	21.7	2.75	8.889		
900.0	899.5	899.5	899.5	1.6	1.5	-150.48	0.0	-19.6	31.7	28.6	3.10	10.216		
1,000.0	998.9	998.9	998.9	1.8	1.7	-157.61	0.0	-19.6	41.0	37.5	3.45	11.879		
1,100.0	1,098.4	1,098.4	1,098.4	2.0	1.9	-162.05	0.0	-19.6	50.6	46.9	3.80	13.343		
1,200.0	1,197.9	1,197.9	1,197.9	2.3	2.1	-165.06	0.0	-19.6	60.5	56.4	4.14	14.613		
1,300.0	1,297.3	1,297.8	1,297.8	2.5	2.2	-165.89	1.5	-20.3	70.2	65.7	4.50	15.619		
1,400.0	1,396.8	1,397.9	1,397.7	2.7	2.4	-164.05	6.1	-22.7	79.2	74.4	4.86	16.303		
1,500.0	1,496.3	1,497.7	1,497.2	3.0	2.6	-160.34	13.8	-26.6	87.9	82.6	5.25	16.750		
1,600.0	1,595.7	1,597.1	1,596.1	3.2	2.8	-156.48	22.7	-31.1	96.8	91.1	5.65	17.124		
1,700.0	1,695.2	1,696.5	1,695.0	3.5	3.0	-153.28	31.6	-35.6	106.0	99.9	6.07	17.475		
1,800.0	1,794.7	1,796.0	1,793.9	3.7	3.2	-150.60	40.5	-40.1	115.5	109.0	6.49	17.798		
1,900.0	1,894.1	1,895.4	1,892.8	3.9	3.4	-148.33	49.4	-44.6	125.3	118.3	6.92	18.095		
2,000.0	1,993.6	1,994.8	1,991.7	4.2	3.7	-146.39	58.3	-49.1	135.2	127.8	7.36	18.367		
2,100.0	2,093.1	2,094.2	2,090.6	4.4	3.9	-144.71	67.1	-53.7	145.2	137.4	7.80	18.616		
2,200.0	2,192.5	2,193.6	2,189.6	4.7	4.1	-143.26	76.0	-58.2	155.3	147.1	8.24	18.845		
2,300.0	2,292.0	2,293.0	2,288.5	4.9	4.3	-141.98	84.9	-62.7	165.6	156.9	8.69	19.055		
2,400.0	2,391.5	2,392.4	2,387.4	5.2	4.6	-140.85	93.8	-67.2	175.9	166.7	9.14	19.248		
2,500.0	2,490.9	2,491.8	2,486.3	5.4	4.8	-139.85	102.7	-71.7	186.2	176.6	9.59	19.426		
2,600.0	2,590.4	2,591.2	2,585.2	5.7	5.0	-138.95	111.6	-76.3	196.6	186.6	10.04	19.591		
2,700.0	2,689.9	2,690.7	2,684.1	5.9	5.3	-138.14	120.5	-80.8	207.1	196.6	10.49	19.744		
2,800.0	2,789.3	2,790.1	2,783.0	6.2	5.5	-137.41	129.4	-85.3	217.6	206.6	10.94	19.886		
2,900.0	2,888.8	2,889.5	2,881.9	6.4	5.7	-136.75	138.3	-89.8	228.1	216.7	11.39	20.019		
3,000.0	2,988.3	2,988.9	2,980.8	6.7	6.0	-136.14	147.2	-94.3	238.6	226.8	11.85	20.143		
3,100.0	3,087.7	3,088.3	3,079.7	6.9	6.2	-135.59	156.1	-98.9	249.2	236.9	12.30	20.258		
3,200.0	3,187.2	3,187.7	3,178.7	7.2	6.5	-135.08	165.0	-103.4	259.8	247.0	12.76	20.366		
3,300.0	3,286.7	3,287.1	3,277.6	7.4	6.7	-134.61	173.9	-107.9	270.4	257.2	13.21	20.468		
3,400.0	3,386.1	3,386.5	3,376.5	7.7	6.9	-134.18	182.8	-112.4	281.0	267.4	13.67	20.564		
3,500.0	3,485.6	3,486.0	3,475.4	7.9	7.2	-133.78	191.7	-116.9	291.7	277.6	14.12	20.654		
3,600.0	3,585.1	3,585.4	3,574.3	8.2	7.4	-133.41	200.6	-121.5	302.3	287.8	14.58	20.739		
3,700.0	3,684.5	3,684.8	3,673.2	8.4	7.7	-133.06	209.5	-126.0	313.0	298.0	15.04	20.819		
3,800.0	3,784.0	3,784.2	3,772.1	8.7	7.9	-132.73	218.4	-130.5	323.7	308.2	15.49	20.895		
3,900.0	3,883.5	3,883.6	3,871.0	8.9	8.1	-132.43	227.3	-135.0	334.4	318.4	15.95	20.967		
4,000.0	3,982.9	3,983.0	3,969.9	9.2	8.4	-132.15	236.2	-139.5	345.1	328.7	16.40	21.035		
4,100.0	4,082.4	4,082.4	4,068.8	9.4	8.6	-131.88	245.1	-144.0	355.8	338.9	16.86	21.100		
4,200.0	4,181.9	4,181.8	4,167.8	9.7	8.9	-131.62	253.9	-148.6	366.5	349.2	17.32	21.162		
4,300.0	4,281.3	4,281.2	4,266.7	9.9	9.1	-131.39	262.8	-153.1	377.2	359.4	17.78	21.221		
4,400.0	4,380.8	4,380.7	4,365.6	10.2	9.3	-131.16	271.7	-157.6	388.0	369.7	18.23	21.277		
4,500.0	4,480.3	4,480.1	4,464.5	10.4	9.6	-130.95	280.6	-162.1	398.7	380.0	18.69	21.331		
4,600.0	4,579.7	4,579.5	4,563.4	10.7	9.8	-130.75	289.5	-166.6	409.4	390.3	19.15	21.382		
4,700.0	4,679.2	4,678.9	4,662.3	10.9	10.1	-130.56	298.4	-171.2	420.2	400.6	19.61	21.431		
4,800.0	4,778.7	4,778.3	4,761.2	11.2	10.3	-130.37	307.3	-175.7	430.9	410.8	20.06	21.477		
4,900.0	4,878.1	4,877.7	4,860.1	11.4	10.6	-130.20	316.2	-180.2	441.7	421.1	20.52	21.522		
5,000.0	4,977.6	4,977.1	4,959.0	11.7	10.8	-130.04	325.1	-184.7	452.4	431.4	20.98	21.565		
5,100.0	5,077.1	5,076.5	5,057.9	11.9	11.0	-129.88	334.0	-189.2	463.2	441.7	21.44	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 2E-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 2E-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											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning					
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)								
5,200.0	5,176.5	5,176.0	5,156.9	12.2	11.3	-129.73	342.9	-193.8	473.9	452.0	21.89	21.646						
5,300.0	5,276.0	5,275.4	5,255.8	12.4	11.5	-129.59	351.8	-198.3	484.7	462.3	22.35	21.685						
5,400.0	5,375.5	5,374.8	5,354.7	12.7	11.8	-129.45	360.7	-202.8	495.5	472.6	22.81	21.721						

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-90.06	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		
300.0	300.0	300.0	300.0	0.5	0.5	-90.06	0.0	-8.4	8.4	7.4	1.00	8.368		
400.0	400.0	400.0	400.0	0.7	0.7	-90.06	0.0	-8.4	8.4	7.0	1.35	6.206		
500.0	500.0	500.0	500.0	0.8	0.8	-90.06	0.0	-8.4	8.4	6.7	1.70	4.931		
600.0	600.0	600.0	600.0	1.0	1.0	-90.06	0.0	-8.4	8.4	6.3	2.05	4.091 CC, ES		
700.0	700.0	700.0	700.0	1.2	1.2	-135.84	0.0	-8.4	9.5	7.1	2.40	3.981		
800.0	799.8	799.8	799.8	1.4	1.4	-151.12	0.0	-8.4	13.8	11.0	2.75	5.022		
900.0	899.5	899.9	899.9	1.6	1.5	-158.51	1.7	-8.2	20.8	17.7	3.09	6.712		
1,000.0	998.9	1,000.2	1,000.0	1.8	1.7	-157.53	7.0	-7.8	27.3	23.9	3.46	7.902		
1,100.0	1,098.4	1,100.2	1,099.7	2.0	1.9	-153.06	14.8	-7.1	32.4	28.6	3.84	8.455		
1,200.0	1,197.9	1,200.0	1,199.2	2.3	2.1	-149.59	22.8	-6.5	37.6	33.4	4.23	8.900		
1,300.0	1,297.3	1,299.9	1,298.7	2.5	2.3	-146.98	30.8	-5.8	42.9	38.3	4.63	9.272		
1,400.0	1,396.8	1,399.7	1,398.3	2.7	2.5	-144.94	38.9	-5.1	48.3	43.2	5.04	9.584		
1,500.0	1,496.3	1,499.6	1,497.8	3.0	2.7	-143.31	46.9	-4.4	53.7	48.2	5.45	9.847		
1,600.0	1,595.7	1,599.4	1,597.3	3.2	3.0	-141.98	54.9	-3.8	59.1	53.3	5.87	10.071		
1,700.0	1,695.2	1,699.2	1,696.8	3.5	3.2	-140.88	62.9	-3.1	64.6	58.3	6.30	10.263		
1,800.0	1,794.7	1,799.1	1,796.3	3.7	3.4	-139.94	70.9	-2.4	70.1	63.4	6.72	10.429		
1,900.0	1,894.1	1,898.9	1,895.9	3.9	3.6	-139.15	78.9	-1.7	75.6	68.5	7.15	10.574		
2,000.0	1,993.6	1,998.8	1,995.4	4.2	3.8	-138.46	86.9	-1.1	81.1	73.6	7.58	10.701		
2,100.0	2,093.1	2,098.6	2,094.9	4.4	4.0	-137.86	94.9	-0.4	86.7	78.7	8.02	10.813		
2,200.0	2,192.5	2,198.5	2,194.4	4.7	4.2	-137.33	103.0	0.3	92.2	83.8	8.45	10.913		
2,300.0	2,292.0	2,298.3	2,293.9	4.9	4.5	-136.86	111.0	1.0	97.8	88.9	8.89	11.002		
2,400.0	2,391.5	2,398.1	2,393.5	5.2	4.7	-136.44	119.0	1.6	103.3	94.0	9.32	11.083		
2,500.0	2,490.9	2,498.0	2,493.0	5.4	4.9	-136.07	127.0	2.3	108.9	99.1	9.76	11.156		
2,600.0	2,590.4	2,597.8	2,592.5	5.7	5.1	-135.73	135.0	3.0	114.4	104.2	10.20	11.221		
2,700.0	2,689.9	2,697.7	2,692.0	5.9	5.3	-135.42	143.0	3.7	120.0	109.4	10.64	11.282		
2,800.0	2,789.3	2,797.5	2,791.5	6.2	5.6	-135.14	151.0	4.3	125.6	114.5	11.08	11.337		
2,900.0	2,888.8	2,897.4	2,891.0	6.4	5.8	-134.89	159.0	5.0	131.1	119.6	11.52	11.387		
3,000.0	2,988.3	2,997.2	2,990.6	6.7	6.0	-134.65	167.1	5.7	136.7	124.8	11.96	11.434		
3,100.0	3,087.7	3,097.0	3,090.1	6.9	6.2	-134.43	175.1	6.3	142.3	129.9	12.40	11.476		
3,200.0	3,187.2	3,196.9	3,189.6	7.2	6.4	-134.23	183.1	7.0	147.9	135.0	12.84	11.516		
3,300.0	3,286.7	3,296.7	3,289.1	7.4	6.7	-134.05	191.1	7.7	153.5	140.2	13.28	11.553		
3,400.0	3,386.1	3,396.6	3,388.6	7.7	6.9	-133.87	199.1	8.4	159.0	145.3	13.72	11.588		
3,500.0	3,485.6	3,496.4	3,488.2	7.9	7.1	-133.71	207.1	9.0	164.6	150.4	14.17	11.620		
3,600.0	3,585.1	3,596.3	3,587.7	8.2	7.3	-133.56	215.1	9.7	170.2	155.6	14.61	11.650		
3,700.0	3,684.5	3,696.1	3,687.2	8.4	7.6	-133.42	223.2	10.4	175.8	160.7	15.05	11.678		
3,800.0	3,784.0	3,795.9	3,786.7	8.7	7.8	-133.29	231.2	11.1	181.4	165.9	15.50	11.705		
3,900.0	3,883.5	3,895.8	3,886.2	8.9	8.0	-133.16	239.2	11.7	187.0	171.0	15.94	11.730		
4,000.0	3,982.9	3,995.6	3,985.8	9.2	8.2	-133.04	247.2	12.4	192.5	176.2	16.38	11.753		
4,100.0	4,082.4	4,095.5	4,085.3	9.4	8.4	-132.93	255.2	13.1	198.1	181.3	16.83	11.775		
4,200.0	4,181.9	4,195.3	4,184.8	9.7	8.7	-132.83	263.2	13.8	203.7	186.5	17.27	11.796		
4,300.0	4,281.3	4,295.2	4,284.3	9.9	8.9	-132.73	271.2	14.4	209.3	191.6	17.71	11.816		
4,400.0	4,380.8	4,395.0	4,383.8	10.2	9.1	-132.64	279.2	15.1	214.9	196.7	18.16	11.835		
4,500.0	4,480.3	4,494.8	4,483.3	10.4	9.3	-132.55	287.3	15.8	220.5	201.9	18.60	11.853		
4,600.0	4,579.7	4,594.7	4,582.9	10.7	9.6	-132.46	295.3	16.5	226.1	207.0	19.05	11.870		
4,700.0	4,679.2	4,694.5	4,682.4	10.9	9.8	-132.38	303.3	17.1	231.7	212.2	19.49	11.886		
4,800.0	4,778.7	4,794.4	4,781.9	11.2	10.0	-132.31	311.3	17.8	237.3	217.3	19.94	11.902		
4,900.0	4,878.1	4,894.2	4,881.4	11.4	10.2	-132.23	319.3	18.5	242.9	222.5	20.38	11.917		
5,000.0	4,977.6	4,994.1	4,980.9	11.7	10.4	-132.16	327.3	19.2	248.5	227.6	20.83	11.931		
5,100.0	5,077.1	5,093.9	5,080.5	11.9	10.7	-132.10	335.3	19.8	254.1	232.8	21.27	11.944		

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 2E-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 2E-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: 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	5,176.5	5,193.7	5,180.0	12.2	10.9	-132.03	343.3	20.5	259.6	237.9	21.72	11.957		
5,300.0	5,276.0	5,293.6	5,279.5	12.4	11.1	-131.97	351.4	21.2	265.2	243.1	22.16	11.969		
5,400.0	5,375.5	5,393.4	5,379.0	12.7	11.3	-131.91	359.4	21.9	270.8	248.2	22.61	11.981		
5,500.0	5,474.9	5,493.3	5,478.5	12.9	11.6	-131.85	367.4	22.5	276.4	253.4	23.05	11.993		
5,600.0	5,574.4	5,593.1	5,578.1	13.2	11.8	-131.80	375.4	23.2	282.0	258.5	23.50	12.003		
5,700.0	5,673.9	5,693.0	5,677.6	13.4	12.0	-131.75	383.4	23.9	287.6	263.7	23.94	12.014		
5,800.0	5,773.3	5,792.8	5,777.1	13.7	12.2	-131.70	391.4	24.5	293.2	268.8	24.39	12.024		
5,900.0	5,872.8	5,892.7	5,876.6	13.9	12.5	-131.65	399.4	25.2	298.8	274.0	24.83	12.034		
6,000.0	5,972.3	5,992.5	5,976.1	14.2	12.7	-131.60	407.4	25.9	304.4	279.1	25.28	12.043		
6,100.0	6,071.7	6,092.3	6,075.6	14.4	12.9	-131.56	415.5	26.6	310.0	284.3	25.72	12.052		
6,200.0	6,171.2	6,192.2	6,175.2	14.7	13.1	-131.52	423.5	27.2	315.6	289.4	26.17	12.061		
6,300.0	6,270.7	6,292.0	6,274.7	14.9	13.3	-131.47	431.5	27.9	321.2	294.6	26.61	12.069		
6,400.0	6,370.1	6,391.9	6,374.2	15.2	13.6	-131.43	439.5	28.6	326.8	299.7	27.06	12.077		
6,500.0	6,469.6	6,491.7	6,473.7	15.4	13.8	-131.39	447.5	29.3	332.4	304.9	27.50	12.085		
6,600.0	6,569.1	6,591.6	6,573.2	15.7	14.0	-131.36	455.5	29.9	338.0	310.0	27.95	12.093		
6,700.0	6,668.6	6,691.4	6,672.8	15.9	14.2	-131.36	463.5	30.6	343.6	315.2	28.38	12.104		
6,800.0	6,768.1	6,790.3	6,771.3	16.0	14.5	-112.98	471.5	31.3	348.5	319.7	28.79	12.104		
6,900.0	6,865.3	6,885.5	6,866.2	15.9	14.7	-103.60	479.1	31.9	354.4	325.2	29.16	12.152		
7,000.0	6,957.3	6,981.0	6,961.6	15.8	14.8	-105.07	483.3	32.6	364.3	335.1	29.25	12.457		
7,100.0	7,041.1	7,066.4	7,066.0	15.5	14.8	-108.67	470.4	33.3	378.7	349.9	28.80	13.150		
7,200.0	7,114.3	7,203.0	7,176.6	15.2	14.6	-112.73	434.2	34.0	396.3	368.4	27.84	14.233		
7,300.0	7,174.7	7,333.4	7,288.8	15.0	14.2	-116.70	368.2	34.8	415.0	388.5	26.52	15.648		
7,400.0	7,220.4	7,479.8	7,393.3	14.9	13.8	-120.19	266.2	35.5	432.4	407.2	25.17	17.177		
7,500.0	7,249.9	7,642.3	7,474.8	14.9	13.5	-122.78	126.3	36.0	445.6	421.3	24.31	18.334		
7,600.0	7,262.6	7,816.6	7,515.1	15.2	13.7	-124.06	-42.6	36.3	452.2	427.7	24.47	18.475		
7,700.0	7,263.0	7,937.2	7,517.0	15.6	14.2	-124.15	-163.1	36.3	452.5	427.1	25.38	17.827		
7,800.0	7,263.0	8,037.2	7,517.0	16.2	14.9	-124.15	-263.1	36.3	452.5	426.0	26.51	17.069		
7,900.0	7,263.0	8,137.2	7,517.0	16.9	15.7	-124.15	-363.1	36.3	452.5	424.6	27.90	16.220		
8,000.0	7,263.0	8,237.2	7,517.0	17.8	16.7	-124.15	-463.1	36.3	452.5	423.0	29.51	15.335		
8,100.0	7,263.0	8,337.2	7,517.0	18.9	17.8	-124.15	-563.1	36.3	452.5	421.2	31.31	14.453		
8,200.0	7,263.0	8,437.2	7,517.0	20.0	19.0	-124.15	-663.1	36.3	452.5	419.3	33.27	13.603		
8,300.0	7,263.0	8,537.2	7,517.0	21.2	20.3	-124.15	-763.1	36.3	452.5	417.2	35.36	12.799		
8,400.0	7,263.0	8,637.2	7,517.0	22.5	21.6	-124.15	-863.1	36.3	452.5	415.0	37.55	12.050		
8,500.0	7,263.0	8,737.2	7,517.0	23.8	23.0	-124.15	-963.1	36.3	452.5	412.7	39.84	11.357		
8,600.0	7,263.0	8,837.2	7,517.0	25.2	24.4	-124.15	-1,063.1	36.3	452.5	410.3	42.21	10.720		
8,700.0	7,263.0	8,937.2	7,517.0	26.6	25.9	-124.15	-1,163.1	36.3	452.5	407.9	44.64	10.137		
8,800.0	7,263.0	9,037.2	7,517.0	28.1	27.4	-124.15	-1,263.1	36.3	452.5	405.4	47.13	9.602		
8,900.0	7,263.0	9,137.2	7,517.0	29.6	29.0	-124.15	-1,363.1	36.3	452.5	402.9	49.66	9.112		
9,000.0	7,263.0	9,237.2	7,517.0	31.1	30.5	-124.15	-1,463.1	36.3	452.5	400.3	52.23	8.664		
9,100.0	7,263.0	9,337.2	7,517.0	32.7	32.1	-124.15	-1,563.1	36.3	452.5	397.7	54.84	8.252		
9,200.0	7,263.0	9,437.2	7,517.0	34.3	33.7	-124.15	-1,663.1	36.3	452.5	395.1	57.47	7.874		
9,300.0	7,263.0	9,537.2	7,517.0	35.9	35.3	-124.15	-1,763.1	36.3	452.5	392.4	60.14	7.525		
9,400.0	7,263.0	9,637.2	7,517.0	37.5	37.0	-124.15	-1,863.1	36.3	452.5	389.7	62.82	7.204		
9,500.0	7,263.0	9,737.2	7,517.0	39.1	38.6	-124.15	-1,963.1	36.3	452.5	387.0	65.52	6.907		
9,600.0	7,263.0	9,837.2	7,517.0	40.7	40.2	-124.15	-2,063.1	36.3	452.5	384.3	68.24	6.631		
9,700.0	7,263.0	9,937.2	7,517.0	42.3	41.9	-124.15	-2,163.1	36.3	452.5	381.6	70.98	6.376		
9,800.0	7,263.0	10,037.2	7,517.0	44.0	43.6	-124.15	-2,263.1	36.3	452.5	378.8	73.72	6.138		
9,900.0	7,263.0	10,137.2	7,517.0	45.6	45.2	-124.15	-2,363.1	36.3	452.5	376.0	76.48	5.917		
10,000.0	7,263.0	10,237.2	7,517.0	47.3	46.9	-124.15	-2,463.1	36.3	452.5	373.3	79.26	5.710		
10,100.0	7,263.0	10,337.2	7,517.0	49.0	48.6	-124.15	-2,563.1	36.3	452.5	370.5	82.04	5.516		
10,200.0	7,263.0	10,437.2	7,517.0	50.6	50.3	-124.15	-2,663.1	36.3	452.5	367.7	84.83	5.335		
10,300.0	7,263.0	10,537.2	7,517.0	52.3	52.0	-124.15	-2,763.1	36.3	452.5	364.9	87.63	5.164		

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 2E-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 2E-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		
10,400.0	7,263.0	10,637.2	7,517.0	54.0	53.7	124.15	-2,863.1	36.3	452.5	362.1	90.43	5.004		
10,500.0	7,263.0	10,737.2	7,517.0	55.7	55.4	124.15	-2,963.1	36.3	452.5	359.3	93.24	4.853		
10,600.0	7,263.0	10,837.2	7,517.0	57.4	57.1	124.15	-3,063.1	36.3	452.5	356.5	96.06	4.711		
10,700.0	7,263.0	10,937.2	7,517.0	59.1	58.8	124.15	-3,163.1	36.3	452.5	353.6	98.88	4.576		
10,800.0	7,263.0	11,037.2	7,517.0	60.8	60.5	124.15	-3,263.1	36.3	452.5	350.8	101.71	4.449		
10,900.0	7,263.0	11,137.2	7,517.0	62.5	62.2	124.15	-3,363.1	36.3	452.5	348.0	104.54	4.329		
11,000.0	7,263.0	11,237.2	7,517.0	64.2	63.9	124.15	-3,463.1	36.3	452.5	345.1	107.38	4.214		
11,100.0	7,263.0	11,337.2	7,517.0	65.9	65.6	124.15	-3,563.1	36.3	452.5	342.3	110.22	4.106		
11,200.0	7,263.0	11,437.2	7,517.0	67.6	67.4	124.15	-3,663.1	36.3	452.5	339.5	113.06	4.002		
11,300.0	7,263.0	11,537.2	7,517.0	69.3	69.1	124.15	-3,763.1	36.3	452.5	336.6	115.91	3.904		
11,400.0	7,263.0	11,637.2	7,517.0	71.0	70.8	124.15	-3,863.1	36.3	452.5	333.8	118.76	3.810		
11,500.0	7,263.0	11,737.2	7,517.0	72.7	72.5	124.15	-3,963.1	36.3	452.5	330.9	121.62	3.721		
11,600.0	7,263.0	11,837.2	7,517.0	74.5	74.2	124.15	-4,063.1	36.3	452.5	328.1	124.47	3.636		
11,700.0	7,263.0	11,937.2	7,517.0	76.2	76.0	124.15	-4,163.1	36.3	452.5	325.2	127.33	3.554		
11,800.0	7,263.0	12,037.2	7,517.0	77.9	77.7	124.15	-4,263.1	36.3	452.5	322.3	130.19	3.476		
11,842.7	7,263.0	12,079.8	7,517.0	78.6	78.4	124.15	-4,305.8	36.3	452.5	321.1	131.41	3.444 SF		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning			
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2							
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	11.2	11.2	10.9	0.30	36.807				
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.5	0.65	17.124				
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	11.2	11.2	10.2	1.00	11.157				
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	11.2	11.2	9.8	1.35	8.274 CC, ES				
500.0	500.0	499.6	499.6	0.8	0.9	85.85	0.9	12.6	12.7	11.0	1.70	7.462 SF				
600.0	600.0	599.0	598.9	1.0	1.0	77.78	3.7	17.0	17.5	15.4	2.05	8.517				
700.0	700.0	698.1	697.5	1.2	1.2	35.91	8.3	24.3	24.3	21.9	2.40	10.143				
800.0	799.8	796.9	795.6	1.4	1.5	35.45	14.7	34.4	31.8	29.0	2.75	11.535				
900.0	899.5	896.4	894.1	1.6	1.8	37.25	22.3	46.5	38.6	35.5	3.12	12.352				
1,000.0	998.9	996.3	992.9	1.8	2.0	39.84	30.0	58.6	44.2	40.7	3.51	12.593				
1,100.0	1,098.4	1,096.1	1,091.7	2.0	2.3	41.85	37.7	70.8	50.0	46.0	3.91	12.765				
1,200.0	1,197.9	1,195.9	1,190.5	2.3	2.6	43.44	45.4	83.0	55.7	51.4	4.32	12.887				
1,300.0	1,297.3	1,295.7	1,289.3	2.5	2.9	44.73	53.1	95.1	61.5	56.8	4.74	12.973				
1,400.0	1,396.8	1,395.6	1,388.0	2.7	3.2	45.79	60.8	107.3	67.4	62.2	5.17	13.034				
1,500.0	1,496.3	1,495.4	1,486.8	3.0	3.5	46.69	68.5	119.4	73.2	67.6	5.60	13.078				
1,600.0	1,595.7	1,595.2	1,585.6	3.2	3.8	47.46	76.1	131.6	79.1	73.0	6.03	13.108				
1,700.0	1,695.2	1,695.0	1,684.4	3.5	4.1	48.11	83.8	143.8	84.9	78.5	6.47	13.129				
1,800.0	1,794.7	1,794.8	1,783.2	3.7	4.4	48.69	91.5	155.9	90.8	83.9	6.91	13.144				
1,900.0	1,894.1	1,894.7	1,881.9	3.9	4.7	49.19	99.2	168.1	96.7	89.4	7.35	13.153				
2,000.0	1,993.6	1,994.5	1,980.7	4.2	5.0	49.64	106.9	180.3	102.6	94.8	7.80	13.159				
2,100.0	2,093.1	2,094.3	2,079.5	4.4	5.3	50.03	114.6	192.4	108.5	100.3	8.25	13.162				
2,200.0	2,192.5	2,194.1	2,178.3	4.7	5.6	50.39	122.3	204.6	114.4	105.8	8.69	13.164				
2,300.0	2,292.0	2,294.0	2,277.1	4.9	5.9	50.71	130.0	216.8	120.4	111.2	9.14	13.163				
2,400.0	2,391.5	2,393.8	2,375.8	5.2	6.2	51.00	137.7	228.9	126.3	116.7	9.59	13.162				
2,500.0	2,490.9	2,493.6	2,474.6	5.4	6.5	51.27	145.4	241.1	132.2	122.2	10.05	13.159				
2,600.0	2,590.4	2,593.4	2,573.4	5.7	6.8	51.51	153.1	253.3	138.1	127.6	10.50	13.156				
2,700.0	2,689.9	2,693.2	2,672.2	5.9	7.2	51.73	160.7	265.4	144.1	133.1	10.95	13.153				
2,800.0	2,789.3	2,793.1	2,771.0	6.2	7.5	51.94	168.4	277.6	150.0	138.6	11.41	13.149				
2,900.0	2,888.8	2,892.9	2,869.7	6.4	7.8	52.13	176.1	289.7	155.9	144.1	11.86	13.146				
3,000.0	2,988.3	2,992.7	2,968.5	6.7	8.1	52.30	183.8	301.9	161.8	149.5	12.32	13.142				
3,100.0	3,087.7	3,092.5	3,067.3	6.9	8.4	52.46	191.5	314.1	167.8	155.0	12.77	13.137				
3,200.0	3,187.2	3,192.4	3,166.1	7.2	8.7	52.62	199.2	326.2	173.7	160.5	13.23	13.133				
3,300.0	3,286.7	3,292.2	3,264.9	7.4	9.0	52.76	206.9	338.4	179.7	166.0	13.68	13.129				
3,400.0	3,386.1	3,392.0	3,363.6	7.7	9.3	52.89	214.6	350.6	185.6	171.4	14.14	13.125				
3,500.0	3,485.6	3,491.8	3,462.4	7.9	9.6	53.02	222.3	362.7	191.5	176.9	14.60	13.121				
3,600.0	3,585.1	3,591.7	3,561.2	8.2	9.9	53.13	230.0	374.9	197.5	182.4	15.05	13.117				
3,700.0	3,684.5	3,691.5	3,660.0	8.4	10.2	53.24	237.7	387.1	203.4	187.9	15.51	13.113				
3,800.0	3,784.0	3,791.3	3,758.8	8.7	10.5	53.35	245.3	399.2	209.3	193.4	15.97	13.109				
3,900.0	3,883.5	3,891.1	3,857.5	8.9	10.8	53.44	253.0	411.4	215.3	198.9	16.43	13.105				
4,000.0	3,982.9	3,990.9	3,956.3	9.2	11.1	53.54	260.7	423.5	221.2	204.3	16.89	13.101				
4,100.0	4,082.4	4,090.8	4,055.1	9.4	11.4	53.63	268.4	435.7	227.2	209.8	17.34	13.098				
4,200.0	4,181.9	4,190.6	4,153.9	9.7	11.7	53.71	276.1	447.9	233.1	215.3	17.80	13.094				
4,300.0	4,281.3	4,290.4	4,252.7	9.9	12.0	53.79	283.8	460.0	239.1	220.8	18.26	13.091				
4,400.0	4,380.8	4,390.2	4,351.4	10.2	12.4	53.86	291.5	472.2	245.0	226.3	18.72	13.087				
4,500.0	4,480.3	4,490.1	4,450.2	10.4	12.7	53.94	299.2	484.4	250.9	231.8	19.18	13.084				
4,600.0	4,579.7	4,589.9	4,549.0	10.7	13.0	54.00	306.9	496.5	256.9	237.2	19.64	13.081				
4,700.0	4,679.2	4,689.7	4,647.8	10.9	13.3	54.07	314.6	508.7	262.8	242.7	20.10	13.078				
4,800.0	4,778.7	4,789.5	4,746.6	11.2	13.6	54.13	322.3	520.9	268.8	248.2	20.56	13.075				
4,900.0	4,878.1	4,889.3	4,845.3	11.4	13.9	54.19	330.0	533.0	274.7	253.7	21.02	13.072				
5,000.0	4,977.6	4,989.2	4,944.1	11.7	14.2	54.25	337.6	545.2	280.7	259.2	21.48	13.069				
5,100.0	5,077.1	5,089.0	5,042.9	11.9	14.5	54.31	345.3	557.4	286.6	264.7	21.94	13.066				

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Ione 2E-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 2E-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 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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	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	5,176.5	5,188.8	5,141.7	12.2	14.8	54.36	353.0	569.5	292.6	270.2	22.39	13.063		
5,300.0	5,276.0	5,288.6	5,240.5	12.4	15.1	54.41	360.7	581.7	298.5	275.6	22.85	13.061		
5,400.0	5,375.5	5,388.5	5,339.2	12.7	15.4	54.46	368.4	593.8	304.4	281.1	23.31	13.058		
5,500.0	5,474.9	5,488.3	5,438.0	12.9	15.7	54.50	376.1	606.0	310.4	286.6	23.77	13.056		
5,600.0	5,574.4	5,588.1	5,536.8	13.2	16.0	54.55	383.8	618.2	316.3	292.1	24.23	13.053		
5,700.0	5,673.9	5,687.9	5,635.6	13.4	16.3	54.59	391.5	630.3	322.3	297.6	24.69	13.051		
5,800.0	5,773.3	5,787.8	5,734.4	13.7	16.7	54.63	399.2	642.5	328.2	303.1	25.15	13.049		
5,900.0	5,872.8	5,887.6	5,833.1	13.9	17.0	54.67	406.9	654.7	334.2	308.6	25.61	13.046		
6,000.0	5,972.3	5,987.4	5,931.9	14.2	17.3	54.71	414.6	666.8	340.1	314.1	26.08	13.044		
6,100.0	6,071.7	6,087.2	6,030.7	14.4	17.6	54.75	422.2	679.0	346.1	319.5	26.54	13.042		
6,200.0	6,171.2	6,187.0	6,129.5	14.7	17.9	54.79	429.9	691.2	352.0	325.0	27.00	13.040		
6,300.0	6,270.7	6,286.9	6,228.2	14.9	18.2	54.82	437.6	703.3	358.0	330.5	27.46	13.038		
6,400.0	6,370.1	6,386.7	6,327.0	15.2	18.5	54.86	445.3	715.5	363.9	336.0	27.92	13.036		
6,500.0	6,469.6	6,486.5	6,425.8	15.4	18.8	54.89	453.0	727.7	369.9	341.5	28.38	13.034		
6,600.0	6,569.1	6,586.3	6,524.6	15.7	19.1	54.92	460.7	739.8	375.8	347.0	28.84	13.032		
6,700.0	6,668.6	6,686.2	6,623.4	15.9	19.4	34.72	468.4	752.0	381.7	352.4	29.30	13.028		
6,800.0	6,768.1	6,785.1	6,721.3	16.0	19.7	-63.57	476.0	764.0	387.3	358.0	29.31	13.215		
6,900.0	6,865.3	6,880.3	6,815.5	15.9	20.0	-80.44	483.4	775.6	393.7	365.0	28.73	13.705		
7,000.0	6,957.3	6,970.9	6,905.2	15.8	20.3	-89.20	490.1	786.7	404.4	376.6	27.85	14.522		
7,100.0	7,041.1	7,074.0	7,007.2	15.5	20.5	-96.50	486.0	799.3	420.9	394.0	26.84	15.681		
7,200.0	7,114.3	7,190.3	7,119.4	15.2	20.5	-102.74	459.3	813.1	441.5	415.6	25.90	17.046		
7,300.0	7,174.7	7,324.3	7,238.8	15.0	20.5	-108.27	401.1	827.8	464.1	439.0	25.07	18.515		
7,400.0	7,220.4	7,480.7	7,356.8	14.9	20.3	-112.99	300.3	842.3	485.4	461.0	24.42	19.880		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2E-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 2E-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	90.05	0.0	19.6	19.6							
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.30	64.412	CC, ES			
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	18.9	0.65	29.967				
300.0	300.0	299.3	299.3	0.5	0.5	88.10	0.7	21.1	21.1	20.1	1.00	21.130				
400.0	400.0	398.4	398.3	0.7	0.7	83.71	2.8	25.8	26.0	24.7	1.35	19.262				
500.0	500.0	497.1	496.5	0.8	0.9	79.21	6.4	33.6	34.3	32.6	1.71	20.108				
600.0	600.0	595.0	593.8	1.0	1.2	75.67	11.3	44.3	46.1	44.0	2.08	22.212				
700.0	700.0	692.3	689.8	1.2	1.5	36.47	17.6	57.9	60.0	57.6	2.39	25.062				
800.0	799.8	790.1	786.0	1.4	1.8	36.58	25.1	74.3	74.0	71.3	2.75	26.949				
900.0	899.5	889.4	883.5	1.6	2.2	37.98	32.9	91.4	85.8	82.7	3.12	27.526				
1,000.0	998.9	988.8	981.1	1.8	2.5	39.76	40.7	108.4	96.4	92.9	3.50	27.511				
1,100.0	1,098.4	1,088.2	1,078.7	2.0	2.9	41.18	48.5	125.5	107.1	103.2	3.90	27.445				
1,200.0	1,197.9	1,187.6	1,176.3	2.3	3.3	42.34	56.3	142.6	117.8	113.5	4.31	27.350				
1,300.0	1,297.3	1,287.0	1,273.9	2.5	3.6	43.31	64.2	159.7	128.6	123.9	4.72	27.240				
1,400.0	1,396.8	1,386.4	1,371.5	2.7	4.0	44.13	72.0	176.7	139.4	134.3	5.14	27.124				
1,500.0	1,496.3	1,485.8	1,469.1	3.0	4.4	44.83	79.8	193.8	150.2	144.7	5.56	27.008				
1,600.0	1,595.7	1,585.2	1,566.7	3.2	4.8	45.44	87.6	210.9	161.1	155.1	5.99	26.893				
1,700.0	1,695.2	1,684.6	1,664.3	3.5	5.1	45.97	95.5	228.0	171.9	165.5	6.42	26.784				
1,800.0	1,794.7	1,784.0	1,762.0	3.7	5.5	46.44	103.3	245.0	182.8	176.0	6.85	26.679				
1,900.0	1,894.1	1,883.4	1,859.6	3.9	5.9	46.85	111.1	262.1	193.7	186.4	7.29	26.580				
2,000.0	1,993.6	1,982.7	1,957.2	4.2	6.2	47.22	118.9	279.2	204.6	196.9	7.72	26.487				
2,100.0	2,093.1	2,082.1	2,054.8	4.4	6.6	47.56	126.7	296.3	215.5	207.3	8.16	26.399				
2,200.0	2,192.5	2,181.5	2,152.4	4.7	7.0	47.86	134.6	313.4	226.4	217.8	8.60	26.317				
2,300.0	2,292.0	2,280.9	2,250.0	4.9	7.4	48.13	142.4	330.4	237.3	228.3	9.04	26.240				
2,400.0	2,391.5	2,380.3	2,347.6	5.2	7.7	48.38	150.2	347.5	248.2	238.7	9.49	26.167				
2,500.0	2,490.9	2,479.7	2,445.2	5.4	8.1	48.61	158.0	364.6	259.2	249.2	9.93	26.099				
2,600.0	2,590.4	2,579.1	2,542.8	5.7	8.5	48.82	165.9	381.7	270.1	259.7	10.37	26.035				
2,700.0	2,689.9	2,678.5	2,640.4	5.9	8.9	49.01	173.7	398.7	281.0	270.2	10.82	25.975				
2,800.0	2,789.3	2,777.9	2,738.0	6.2	9.2	49.19	181.5	415.8	291.9	280.7	11.26	25.918				
2,900.0	2,888.8	2,877.3	2,835.6	6.4	9.6	49.36	189.3	432.9	302.9	291.2	11.71	25.865				
3,000.0	2,988.3	2,976.7	2,933.2	6.7	10.0	49.51	197.2	450.0	313.8	301.7	12.16	25.814				
3,100.0	3,087.7	3,076.1	3,030.8	6.9	10.4	49.66	205.0	467.0	324.8	312.2	12.60	25.767				
3,200.0	3,187.2	3,175.5	3,128.4	7.2	10.7	49.79	212.8	484.1	335.7	322.6	13.05	25.722				
3,300.0	3,286.7	3,274.9	3,226.0	7.4	11.1	49.92	220.6	501.2	346.6	333.1	13.50	25.679				
3,400.0	3,386.1	3,374.3	3,323.6	7.7	11.5	50.04	228.4	518.3	357.6	343.6	13.95	25.638				
3,500.0	3,485.6	3,473.7	3,421.3	7.9	11.9	50.15	236.3	535.3	368.5	354.1	14.40	25.600				
3,600.0	3,585.1	3,573.1	3,518.9	8.2	12.2	50.25	244.1	552.4	379.5	364.6	14.84	25.563				
3,700.0	3,684.5	3,672.5	3,616.5	8.4	12.6	50.35	251.9	569.5	390.4	375.1	15.29	25.528				
3,800.0	3,784.0	3,771.9	3,714.1	8.7	13.0	50.45	259.7	586.6	401.4	385.6	15.74	25.495				
3,900.0	3,883.5	3,871.3	3,811.7	8.9	13.4	50.53	267.6	603.7	412.3	396.1	16.19	25.464				
4,000.0	3,982.9	3,970.7	3,909.3	9.2	13.7	50.62	275.4	620.7	423.3	406.6	16.64	25.433				
4,100.0	4,082.4	4,070.1	4,006.9	9.4	14.1	50.70	283.2	637.8	434.2	417.1	17.09	25.405				
4,200.0	4,181.9	4,169.5	4,104.5	9.7	14.5	50.77	291.0	654.9	445.2	427.6	17.54	25.377				
4,300.0	4,281.3	4,268.9	4,202.1	9.9	14.9	50.85	298.9	672.0	456.1	438.2	17.99	25.351				
4,400.0	4,380.8	4,368.3	4,299.7	10.2	15.2	50.92	306.7	689.0	467.1	448.7	18.44	25.325				
4,500.0	4,480.3	4,467.7	4,397.3	10.4	15.6	50.98	314.5	706.1	478.1	459.2	18.89	25.301				
4,600.0	4,579.7	4,567.1	4,494.9	10.7	16.0	51.04	322.3	723.2	489.0	469.7	19.35	25.278				
4,700.0	4,679.2	4,666.5	4,592.5	10.9	16.3	51.10	330.1	740.3	500.0	480.2	19.80	25.255				

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

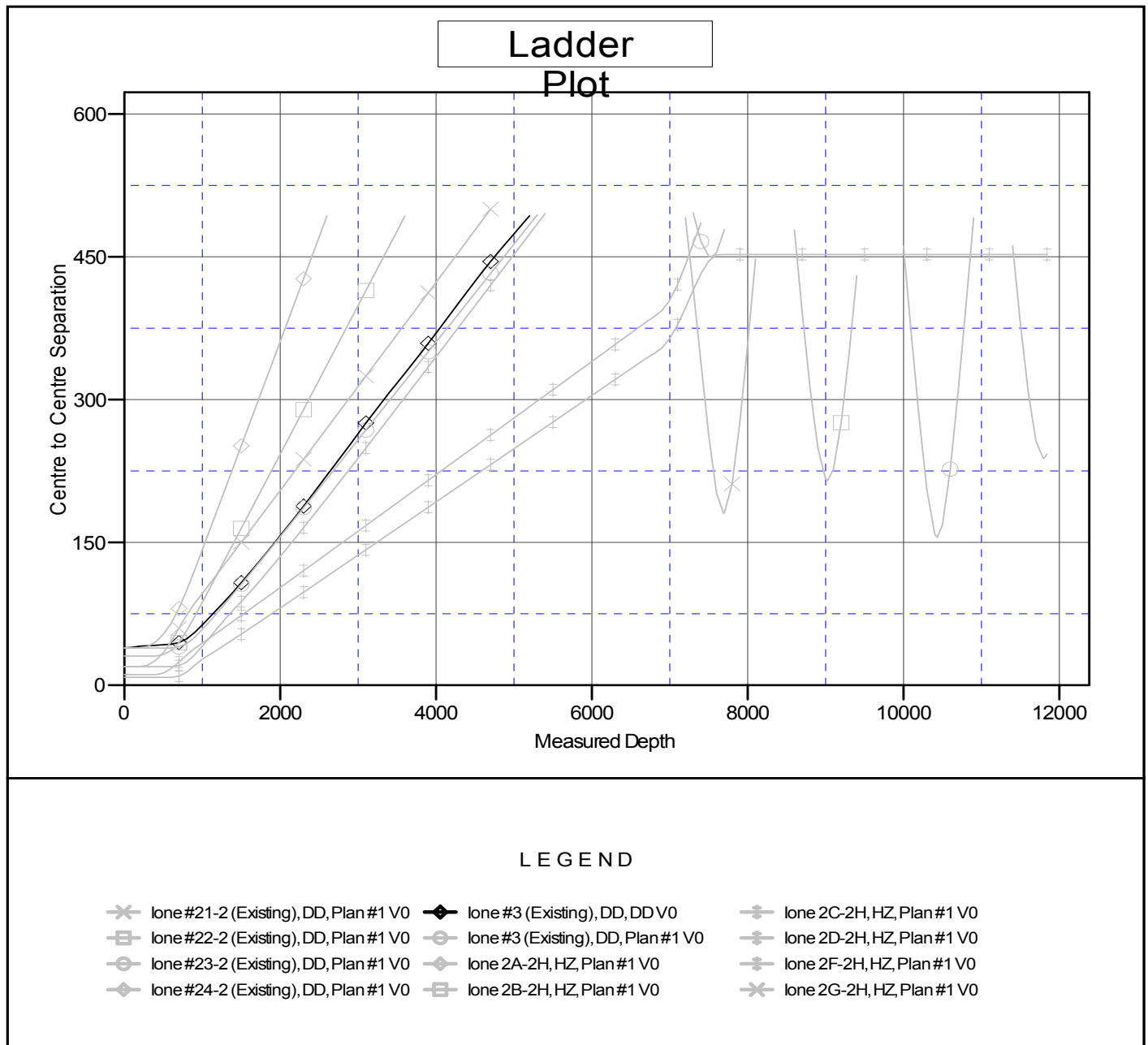
Cathedral Energy Services

Anticollision Report

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



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