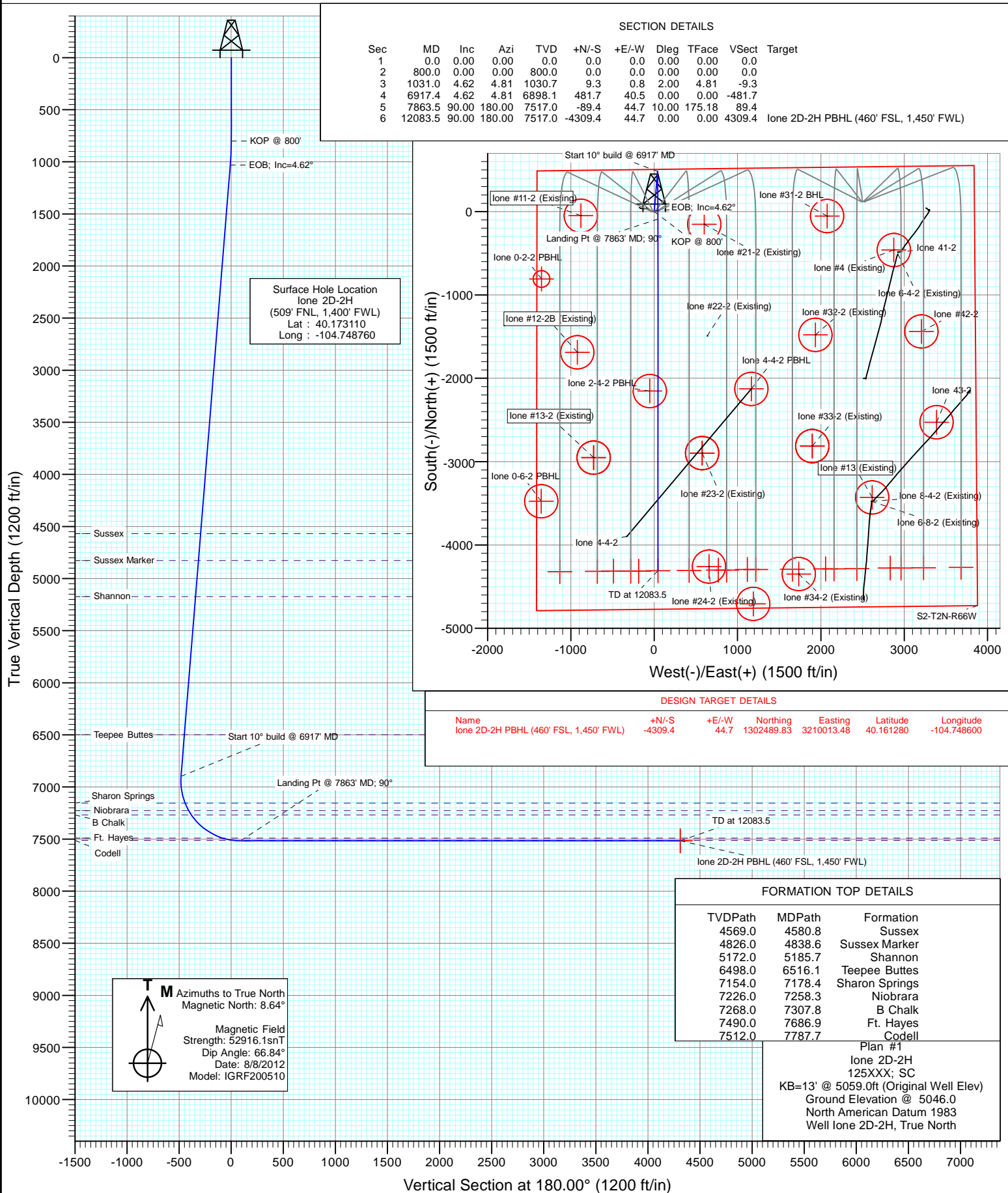
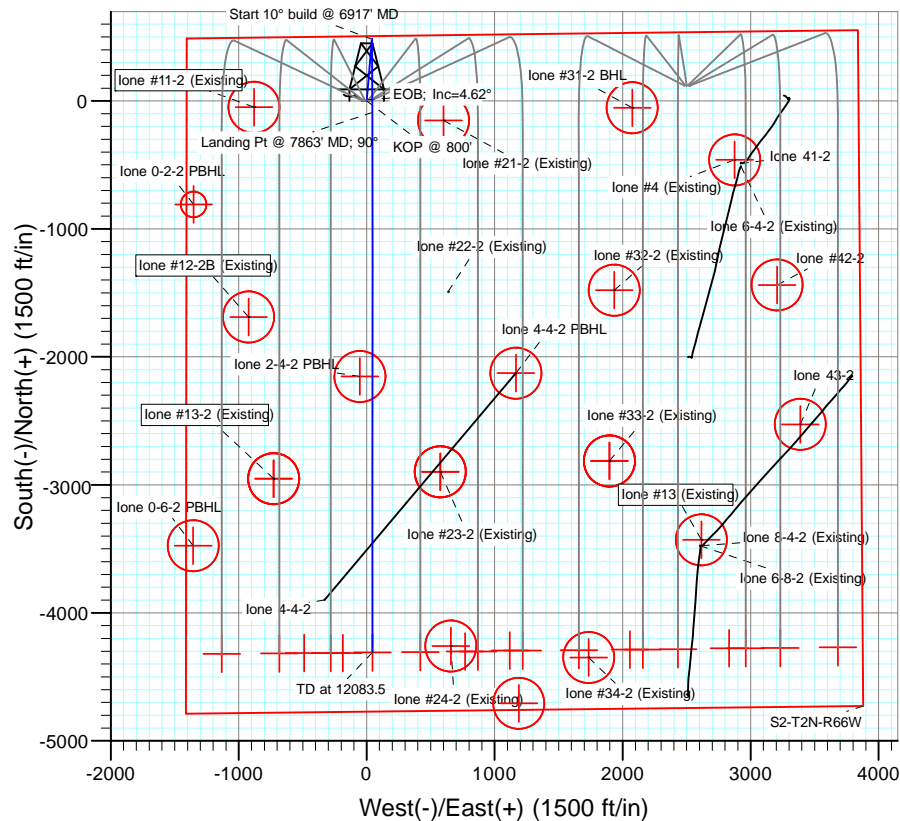




Project: DJ Wattenberg
Site: NWN S2-T2N-R66W (Ione)
Well: Ione 2D-2H
Wellbore: HZ
Design: Plan #1



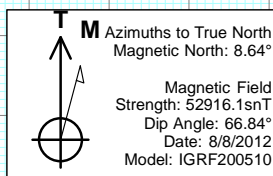
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.0	
3	1031.0	4.62	4.81	1030.7	9.3	0.8	2.00	4.81	-9.3	
4	6917.4	4.62	4.81	6898.1	481.7	40.5	0.00	0.00	-481.7	
5	7863.5	90.00	180.00	7517.0	-89.4	44.7	10.00	175.18	89.4	
6	12083.5	90.00	180.00	7517.0	-4309.4	44.7	0.00	0.00	4309.4	Ione 2D-2H PBHL (460' FSL, 1,450' FWL)



DESIGN TARGET DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Ione 2D-2H PBHL (460' FSL, 1,450' FWL)	-4309.4	44.7	1302489.83	3210013.48	40.161280	-104.748600

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4569.0	4580.8	Sussex
4826.0	4838.6	Sussex Marker
5172.0	5185.7	Shannon
6498.0	6516.1	Teepee Buttes
7154.0	7178.4	Sharon Springs
7226.0	7258.3	Niobrara
7268.0	7307.8	B Chalk
7490.0	7686.9	Ft. Hayes
7512.0	7787.7	Codell

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



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2D-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 2D-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 2D-2H					
Well Position	+N/-S	0.0 ft	Northing:	1,306,798.72 ft	Latitude:	40.173110
	+E/-W	0.0 ft	Easting:	3,209,932.26 ft	Longitude:	-104.748760
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 (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	
800.0	0.00	0.00	800.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,031.0	4.62	4.81	1,030.7	9.3	0.8	2.00	2.00	0.00	4.81	
6,917.4	4.62	4.81	6,898.1	481.7	40.5	0.00	0.00	0.00	0.00	
7,863.5	90.00	180.00	7,517.0	-89.4	44.7	10.00	9.03	18.52	175.18	
12,083.5	90.00	180.00	7,517.0	-4,309.4	44.7	0.00	0.00	0.00	0.00	lone 2D-2H PBHL (46

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	KOP @ 800'
900.0	2.00	4.81	900.0	1.7	0.1	-1.7	2.00	2.00	
1,000.0	4.00	4.81	999.8	7.0	0.6	-7.0	2.00	2.00	
1,031.0	4.62	4.81	1,030.7	9.3	0.8	-9.3	2.00	2.00	EOB; Inc=4.62°
1,100.0	4.62	4.81	1,099.5	14.8	1.2	-14.8	0.00	0.00	
1,200.0	4.62	4.81	1,199.2	22.8	1.9	-22.8	0.00	0.00	
1,300.0	4.62	4.81	1,298.9	30.9	2.6	-30.9	0.00	0.00	
1,400.0	4.62	4.81	1,398.6	38.9	3.3	-38.9	0.00	0.00	
1,500.0	4.62	4.81	1,498.2	46.9	3.9	-46.9	0.00	0.00	
1,600.0	4.62	4.81	1,597.9	54.9	4.6	-54.9	0.00	0.00	
1,700.0	4.62	4.81	1,697.6	63.0	5.3	-63.0	0.00	0.00	
1,800.0	4.62	4.81	1,797.3	71.0	6.0	-71.0	0.00	0.00	
1,900.0	4.62	4.81	1,896.9	79.0	6.6	-79.0	0.00	0.00	
2,000.0	4.62	4.81	1,996.6	87.0	7.3	-87.0	0.00	0.00	
2,100.0	4.62	4.81	2,096.3	95.1	8.0	-95.1	0.00	0.00	
2,200.0	4.62	4.81	2,196.0	103.1	8.7	-103.1	0.00	0.00	
2,300.0	4.62	4.81	2,295.6	111.1	9.3	-111.1	0.00	0.00	
2,400.0	4.62	4.81	2,395.3	119.1	10.0	-119.1	0.00	0.00	
2,500.0	4.62	4.81	2,495.0	127.2	10.7	-127.2	0.00	0.00	
2,600.0	4.62	4.81	2,594.7	135.2	11.4	-135.2	0.00	0.00	
2,700.0	4.62	4.81	2,694.3	143.2	12.0	-143.2	0.00	0.00	
2,800.0	4.62	4.81	2,794.0	151.2	12.7	-151.2	0.00	0.00	
2,900.0	4.62	4.81	2,893.7	159.3	13.4	-159.3	0.00	0.00	
3,000.0	4.62	4.81	2,993.4	167.3	14.1	-167.3	0.00	0.00	
3,100.0	4.62	4.81	3,093.0	175.3	14.8	-175.3	0.00	0.00	
3,200.0	4.62	4.81	3,192.7	183.3	15.4	-183.3	0.00	0.00	
3,300.0	4.62	4.81	3,292.4	191.4	16.1	-191.4	0.00	0.00	
3,400.0	4.62	4.81	3,392.1	199.4	16.8	-199.4	0.00	0.00	
3,500.0	4.62	4.81	3,491.7	207.4	17.5	-207.4	0.00	0.00	
3,600.0	4.62	4.81	3,591.4	215.4	18.1	-215.4	0.00	0.00	
3,700.0	4.62	4.81	3,691.1	223.5	18.8	-223.5	0.00	0.00	
3,800.0	4.62	4.81	3,790.8	231.5	19.5	-231.5	0.00	0.00	
3,900.0	4.62	4.81	3,890.4	239.5	20.2	-239.5	0.00	0.00	
4,000.0	4.62	4.81	3,990.1	247.5	20.8	-247.5	0.00	0.00	
4,100.0	4.62	4.81	4,089.8	255.6	21.5	-255.6	0.00	0.00	
4,200.0	4.62	4.81	4,189.5	263.6	22.2	-263.6	0.00	0.00	
4,300.0	4.62	4.81	4,289.1	271.6	22.9	-271.6	0.00	0.00	
4,400.0	4.62	4.81	4,388.8	279.7	23.5	-279.7	0.00	0.00	
4,500.0	4.62	4.81	4,488.5	287.7	24.2	-287.7	0.00	0.00	
4,580.8	4.62	4.81	4,569.0	294.2	24.7	-294.2	0.00	0.00	Sussex
4,600.0	4.62	4.81	4,588.2	295.7	24.9	-295.7	0.00	0.00	
4,700.0	4.62	4.81	4,687.8	303.7	25.6	-303.7	0.00	0.00	
4,800.0	4.62	4.81	4,787.5	311.8	26.2	-311.8	0.00	0.00	
4,838.6	4.62	4.81	4,826.0	314.9	26.5	-314.9	0.00	0.00	Sussex Marker

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	4.62	4.81	4,887.2	319.8	26.9	-319.8	0.00	0.00	
5,000.0	4.62	4.81	4,986.9	327.8	27.6	-327.8	0.00	0.00	
5,100.0	4.62	4.81	5,086.5	335.8	28.3	-335.8	0.00	0.00	
5,185.7	4.62	4.81	5,172.0	342.7	28.8	-342.7	0.00	0.00	Shannon
5,200.0	4.62	4.81	5,186.2	343.9	28.9	-343.9	0.00	0.00	
5,300.0	4.62	4.81	5,285.9	351.9	29.6	-351.9	0.00	0.00	
5,400.0	4.62	4.81	5,385.6	359.9	30.3	-359.9	0.00	0.00	
5,500.0	4.62	4.81	5,485.2	367.9	31.0	-367.9	0.00	0.00	
5,600.0	4.62	4.81	5,584.9	376.0	31.6	-376.0	0.00	0.00	
5,700.0	4.62	4.81	5,684.6	384.0	32.3	-384.0	0.00	0.00	
5,800.0	4.62	4.81	5,784.3	392.0	33.0	-392.0	0.00	0.00	
5,900.0	4.62	4.81	5,883.9	400.0	33.7	-400.0	0.00	0.00	
6,000.0	4.62	4.81	5,983.6	408.1	34.3	-408.1	0.00	0.00	
6,100.0	4.62	4.81	6,083.3	416.1	35.0	-416.1	0.00	0.00	
6,200.0	4.62	4.81	6,183.0	424.1	35.7	-424.1	0.00	0.00	
6,300.0	4.62	4.81	6,282.6	432.1	36.4	-432.1	0.00	0.00	
6,400.0	4.62	4.81	6,382.3	440.2	37.0	-440.2	0.00	0.00	
6,500.0	4.62	4.81	6,482.0	448.2	37.7	-448.2	0.00	0.00	
6,516.1	4.62	4.81	6,498.0	449.5	37.8	-449.5	0.00	0.00	Teepee Buttes
6,600.0	4.62	4.81	6,581.7	456.2	38.4	-456.2	0.00	0.00	
6,700.0	4.62	4.81	6,681.3	464.2	39.1	-464.2	0.00	0.00	
6,800.0	4.62	4.81	6,781.0	472.3	39.7	-472.3	0.00	0.00	
6,900.0	4.62	4.81	6,880.7	480.3	40.4	-480.3	0.00	0.00	
6,917.4	4.62	4.81	6,898.1	481.7	40.5	-481.7	0.00	0.00	Start 10° build @ 6917' MD
7,000.0	3.67	173.94	6,980.6	482.4	41.1	-482.4	10.00	-1.15	
7,100.0	13.66	178.40	7,079.3	467.3	41.8	-467.3	10.00	9.98	
7,178.4	21.50	179.01	7,154.0	443.7	42.3	-443.7	10.00	10.00	Sharon Springs
7,200.0	23.66	179.11	7,173.9	435.4	42.4	-435.4	10.00	10.00	
7,258.3	29.48	179.31	7,226.0	409.4	42.7	-409.4	10.00	10.00	Niobrara
7,300.0	33.65	179.42	7,261.6	387.5	43.0	-387.5	10.00	10.00	
7,307.8	34.43	179.43	7,268.0	383.2	43.0	-383.2	10.00	10.00	B Chalk
7,400.0	43.65	179.59	7,339.5	325.1	43.5	-325.1	10.00	10.00	
7,500.0	53.65	179.71	7,405.5	250.2	44.0	-250.2	10.00	10.00	
7,600.0	63.65	179.81	7,457.5	164.9	44.3	-164.9	10.00	10.00	
7,686.9	72.34	179.88	7,490.0	84.4	44.5	-84.4	10.00	10.00	Ft. Hayes
7,700.0	73.65	179.89	7,493.8	71.8	44.6	-71.8	10.00	10.00	
7,787.7	82.43	179.95	7,512.0	-13.9	44.7	13.9	10.00	10.00	Codell
7,800.0	83.65	179.96	7,513.5	-26.1	44.7	26.1	10.00	10.00	
7,863.5	90.00	180.00	7,517.0	-89.4	44.7	89.4	10.00	10.00	Landing Pt @ 7863' MD; 90°
7,900.0	90.00	180.00	7,517.0	-125.9	44.7	125.9	0.00	0.00	
8,000.0	90.00	180.00	7,517.0	-225.9	44.7	225.9	0.00	0.00	
8,100.0	90.00	180.00	7,517.0	-325.9	44.7	325.9	0.00	0.00	
8,200.0	90.00	180.00	7,517.0	-425.9	44.7	425.9	0.00	0.00	
8,300.0	90.00	180.00	7,517.0	-525.9	44.7	525.9	0.00	0.00	
8,400.0	90.00	180.00	7,517.0	-625.9	44.7	625.9	0.00	0.00	
8,500.0	90.00	180.00	7,517.0	-725.9	44.7	725.9	0.00	0.00	
8,600.0	90.00	180.00	7,517.0	-825.9	44.7	825.9	0.00	0.00	
8,700.0	90.00	180.00	7,517.0	-925.9	44.7	925.9	0.00	0.00	
8,800.0	90.00	180.00	7,517.0	-1,025.9	44.7	1,025.9	0.00	0.00	
8,900.0	90.00	180.00	7,517.0	-1,125.9	44.7	1,125.9	0.00	0.00	
9,000.0	90.00	180.00	7,517.0	-1,225.9	44.7	1,225.9	0.00	0.00	
9,100.0	90.00	180.00	7,517.0	-1,325.9	44.7	1,325.9	0.00	0.00	

Cathedral Energy Services

Planning Report

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

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	180.00	7,517.0	-1,425.9	44.7	1,425.9	0.00	0.00	
9,300.0	90.00	180.00	7,517.0	-1,525.9	44.7	1,525.9	0.00	0.00	
9,400.0	90.00	180.00	7,517.0	-1,625.9	44.7	1,625.9	0.00	0.00	
9,500.0	90.00	180.00	7,517.0	-1,725.9	44.7	1,725.9	0.00	0.00	
9,600.0	90.00	180.00	7,517.0	-1,825.9	44.7	1,825.9	0.00	0.00	
9,700.0	90.00	180.00	7,517.0	-1,925.9	44.7	1,925.9	0.00	0.00	
9,800.0	90.00	180.00	7,517.0	-2,025.9	44.7	2,025.9	0.00	0.00	
9,900.0	90.00	180.00	7,517.0	-2,125.9	44.7	2,125.9	0.00	0.00	
10,000.0	90.00	180.00	7,517.0	-2,225.9	44.7	2,225.9	0.00	0.00	
10,100.0	90.00	180.00	7,517.0	-2,325.9	44.7	2,325.9	0.00	0.00	
10,200.0	90.00	180.00	7,517.0	-2,425.9	44.7	2,425.9	0.00	0.00	
10,300.0	90.00	180.00	7,517.0	-2,525.9	44.7	2,525.9	0.00	0.00	
10,400.0	90.00	180.00	7,517.0	-2,625.9	44.7	2,625.9	0.00	0.00	
10,500.0	90.00	180.00	7,517.0	-2,725.9	44.7	2,725.9	0.00	0.00	
10,600.0	90.00	180.00	7,517.0	-2,825.9	44.7	2,825.9	0.00	0.00	
10,700.0	90.00	180.00	7,517.0	-2,925.9	44.7	2,925.9	0.00	0.00	
10,800.0	90.00	180.00	7,517.0	-3,025.9	44.7	3,025.9	0.00	0.00	
10,900.0	90.00	180.00	7,517.0	-3,125.9	44.7	3,125.9	0.00	0.00	
11,000.0	90.00	180.00	7,517.0	-3,225.9	44.7	3,225.9	0.00	0.00	
11,100.0	90.00	180.00	7,517.0	-3,325.9	44.7	3,325.9	0.00	0.00	
11,200.0	90.00	180.00	7,517.0	-3,425.9	44.7	3,425.9	0.00	0.00	
11,300.0	90.00	180.00	7,517.0	-3,525.9	44.7	3,525.9	0.00	0.00	
11,400.0	90.00	180.00	7,517.0	-3,625.9	44.7	3,625.9	0.00	0.00	
11,500.0	90.00	180.00	7,517.0	-3,725.9	44.7	3,725.9	0.00	0.00	
11,600.0	90.00	180.00	7,517.0	-3,825.9	44.7	3,825.9	0.00	0.00	
11,700.0	90.00	180.00	7,517.0	-3,925.9	44.7	3,925.9	0.00	0.00	
11,800.0	90.00	180.00	7,517.0	-4,025.9	44.7	4,025.9	0.00	0.00	
11,900.0	90.00	180.00	7,517.0	-4,125.9	44.7	4,125.9	0.00	0.00	
12,000.0	90.00	180.00	7,517.0	-4,225.9	44.7	4,225.9	0.00	0.00	
12,083.5	90.00	180.00	7,517.0	-4,309.4	44.7	4,309.4	0.00	0.00	TD at 12083.5 - lone 2D-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 2D-2H PBHL (460'	0.00	0.00	7,517.0	-4,309.4	44.7	1,302,489.83	3,210,013.48	40.161280	-104.748600
- plan hits target center									
- Point									

Cathedral Energy Services

Planning Report

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

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,580.8	4,569.0	Sussex				
4,838.6	4,826.0	Sussex Marker				
5,185.7	5,172.0	Shannon				
6,516.1	6,498.0	Teepee Buttes				
7,178.4	7,154.0	Sharon Springs				
7,258.3	7,226.0	Niobrara				
7,307.8	7,268.0	B Chalk				
7,686.9	7,490.0	Ft. Hayes				
7,787.7	7,512.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
800.0	800.0	0.0	0.0	KOP @ 800'	
1,031.0	1,030.7	9.3	0.8	EOB; Inc=4.62°	
6,917.4	6,898.1	481.7	40.5	Start 10° build @ 6917' MD	
7,863.5	7,517.0	-89.4	44.7	Landing Pt @ 7863' MD; 90°	
12,083.5	7,517.0	-4,309.4	44.7	TD at 12083.5	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNE S2-T2N-R66W (lone)

lone 2D-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 2D-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 2D-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	8/15/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	12,083.5	Plan #1 (HZ)	MWD	Geolink MWD

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	Reference	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
Offset Well - Wellbore - Design						
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						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	30.8			
lone #3 (Existing) - DD - DD	7,732.4	7,488.4	202.7	182.7	10.132	SF
lone #3 (Existing) - DD - Plan #1	800.0	798.0	30.7	28.0	11.218	CC
lone #3 (Existing) - DD - Plan #1	900.0	898.0	30.9	27.8	10.009	ES
lone #3 (Existing) - DD - Plan #1	7,773.6	7,508.0	75.4	48.8	2.830	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	30.7	30.1	47.091	CC, ES
lone 2A-2H - HZ - Plan #1	500.0	496.1	45.3	43.6	26.574	SF
lone 2B-2H - HZ - Plan #1	400.0	400.0	22.4	21.0	16.549	CC, ES
lone 2B-2H - HZ - Plan #1	600.0	598.5	28.1	26.1	13.712	SF
lone 2C-2H - HZ - Plan #1	800.0	800.0	11.2	8.4	4.069	CC
lone 2C-2H - HZ - Plan #1	900.0	900.0	11.5	8.4	3.698	ES
lone 2C-2H - HZ - Plan #1	12,083.5	11,848.8	405.0	276.5	3.151	SF
lone 2E-2H - HZ - Plan #1	600.0	600.0	8.4	6.3	4.091	CC, ES
lone 2E-2H - HZ - Plan #1	12,083.5	11,842.7	452.5	321.1	3.442	SF
lone 2F-2H - HZ - Plan #1	400.0	400.0	19.6	18.2	14.480	CC, ES
lone 2F-2H - HZ - Plan #1	500.0	499.4	21.0	19.3	12.386	SF
lone 2G-2H - HZ - Plan #1	200.0	200.0	27.9	27.3	42.810	CC, ES
lone 2G-2H - HZ - Plan #1	500.0	496.3	42.6	40.9	25.085	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 2D-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 2D-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	-89.94	0.0	-30.7	30.8					
100.0	100.0	97.5	97.5	0.2	0.1	-89.63	0.2	-31.5	31.5	0.22	140.329			
200.0	200.0	197.8	197.8	0.3	0.2	-88.65	0.8	-32.6	32.6	0.49	67.062			
300.0	300.0	297.9	297.9	0.5	0.2	-87.38	1.5	-33.1	33.1	0.75	44.231			
400.0	400.0	397.8	397.8	0.7	0.3	-87.07	1.7	-33.5	33.5	1.01	33.213			
500.0	500.0	497.8	497.8	0.8	0.4	-86.89	1.9	-34.2	34.2	1.27	26.894			
600.0	600.0	597.8	597.8	1.0	0.5	-85.54	2.7	-34.7	34.8	1.53	22.707			
700.0	700.0	697.7	697.7	1.2	0.6	-84.41	3.5	-35.3	35.5	1.80	19.778			
800.0	800.0	797.7	797.7	1.4	0.7	-83.44	4.2	-36.1	36.4	2.06	17.669			
900.0	900.0	897.7	897.7	1.5	0.8	-89.77	5.0	-36.8	37.1	2.32	16.000			
1,000.0	999.8	997.7	997.6	1.7	0.9	-96.52	5.8	-37.5	38.1	2.59	14.691			
1,100.0	1,099.5	1,097.4	1,097.4	1.9	0.9	-106.48	6.7	-38.0	40.1	2.87	13.970			
1,200.0	1,199.2	1,197.4	1,197.4	2.1	1.0	-116.62	6.8	-38.0	43.0	3.15	13.652			
1,300.0	1,298.9	1,297.2	1,297.2	2.3	1.1	-125.44	7.1	-37.5	46.6	3.42	13.634			
1,400.0	1,398.6	1,396.6	1,396.6	2.5	1.2	-131.93	7.8	-37.6	51.4	3.69	13.908			
1,500.0	1,498.2	1,496.3	1,496.2	2.7	1.3	-137.29	8.3	-38.1	57.0	3.96	14.405			
1,600.0	1,597.9	1,596.1	1,596.0	3.0	1.4	-141.63	8.8	-38.5	63.1	4.23	14.936			
1,700.0	1,697.6	1,695.8	1,695.8	3.2	1.5	-145.16	9.5	-38.9	69.4	4.49	15.449			
1,800.0	1,797.3	1,795.5	1,795.4	3.4	1.6	-148.10	10.1	-39.3	75.9	4.75	15.961			
1,900.0	1,896.9	1,894.8	1,894.7	3.6	1.6	-150.47	10.6	-40.0	82.8	5.02	16.511			
2,000.0	1,996.6	1,994.8	1,994.7	3.8	1.7	-152.42	11.0	-40.8	90.0	5.28	17.051			
2,100.0	2,096.3	2,094.5	2,094.4	4.0	1.8	-154.04	11.6	-41.6	97.1	5.54	17.518			
2,200.0	2,196.0	2,194.1	2,194.0	4.3	1.9	-155.30	12.3	-42.6	104.3	5.80	17.963			
2,300.0	2,295.6	2,293.4	2,293.3	4.5	2.0	-156.34	12.8	-43.8	111.7	6.07	18.412			
2,400.0	2,395.3	2,393.1	2,393.0	4.7	2.1	-157.27	13.2	-45.1	119.4	6.33	18.859			
2,500.0	2,495.0	2,492.4	2,492.3	4.9	2.2	-158.06	13.4	-46.4	127.3	6.60	19.296			
2,600.0	2,594.7	2,592.7	2,592.6	5.1	2.3	-158.78	13.7	-47.8	135.1	6.86	19.692			
2,700.0	2,694.3	2,692.3	2,692.1	5.3	2.3	-159.34	14.3	-49.2	142.7	7.12	20.028			
2,800.0	2,794.0	2,792.2	2,792.0	5.6	2.4	-159.75	15.0	-50.8	150.3	7.39	20.340			
2,900.0	2,893.7	2,891.5	2,891.3	5.8	2.5	-160.07	15.7	-52.6	158.0	7.66	20.633			
3,000.0	2,993.4	2,991.2	2,991.0	6.0	2.6	-160.29	16.4	-54.5	165.8	7.92	20.924			
3,100.0	3,093.0	3,091.2	3,091.0	6.2	2.7	-160.53	17.1	-56.4	173.5	8.19	21.185			
3,200.0	3,192.7	3,191.7	3,191.5	6.5	2.8	-160.80	18.0	-58.0	180.9	8.46	21.394			
3,300.0	3,292.4	3,290.6	3,290.3	6.7	2.9	-161.04	19.0	-59.6	188.3	8.72	21.589			
3,400.0	3,392.1	3,391.7	3,391.4	6.9	3.0	-161.27	20.0	-61.2	195.6	8.99	21.766			
3,500.0	3,491.7	3,492.1	3,491.8	7.1	3.1	-161.50	21.5	-62.5	202.4	9.25	21.870			
3,600.0	3,591.4	3,591.8	3,591.5	7.3	3.1	-161.56	23.4	-64.2	209.0	9.52	21.947			
3,700.0	3,691.1	3,692.9	3,692.6	7.6	3.2	-161.40	25.8	-66.6	215.4	9.80	21.985			
3,800.0	3,790.8	3,790.8	3,790.4	7.8	3.3	-161.23	28.2	-69.1	221.8	10.07	22.030			
3,900.0	3,890.4	3,890.9	3,890.4	8.0	3.4	-161.10	30.1	-71.6	228.7	10.34	22.117			
4,000.0	3,990.1	3,989.8	3,989.3	8.2	3.5	-161.07	31.8	-73.8	235.6	10.61	22.208			
4,100.0	4,089.8	4,089.1	4,088.5	8.5	3.6	-161.04	33.3	-76.2	242.8	10.88	22.322			
4,200.0	4,189.5	4,188.7	4,188.1	8.7	3.7	-161.06	34.5	-78.3	250.2	11.15	22.442			
4,300.0	4,289.1	4,288.6	4,287.9	8.9	3.8	-161.09	35.8	-80.5	257.5	11.42	22.555			
4,400.0	4,388.8	4,388.8	4,388.1	9.1	3.9	-161.10	37.2	-82.7	264.7	11.69	22.653			
4,500.0	4,488.5	4,488.0	4,487.3	9.3	3.9	-161.16	38.5	-84.7	271.9	11.95	22.747			
4,600.0	4,588.2	4,588.8	4,588.1	9.6	4.0	-161.25	39.8	-86.5	279.1	12.22	22.834			
4,700.0	4,687.8	4,688.9	4,688.1	9.8	4.1	-161.42	41.2	-87.8	286.0	12.49	22.899			
4,800.0	4,787.5	4,789.2	4,788.4	10.0	4.2	-161.66	42.5	-88.7	292.7	12.75	22.955			
4,900.0	4,887.2	4,889.6	4,888.8	10.2	4.3	-161.92	44.0	-89.3	299.3	13.01	22.995			
5,000.0	4,986.9	4,988.6	4,987.8	10.5	4.4	-162.22	45.4	-89.7	305.8	13.28	23.036			
5,100.0	5,086.5	5,088.6	5,087.8	10.7	4.5	-162.51	46.6	-90.1	312.5	13.54	23.085			

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 2D-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 2D-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)						
5,200.0	5,186.2	5,188.0	5,187.2	10.9	4.6	-162.81	47.8	-90.4	319.2	305.4	13.80	23.135		
5,300.0	5,285.9	5,286.7	5,285.9	11.1	4.6	-163.15	48.7	-90.5	326.1	312.0	14.05	23.202		
5,400.0	5,385.6	5,384.7	5,383.9	11.4	4.7	-163.51	49.1	-90.6	333.4	319.1	14.31	23.298		
5,500.0	5,485.2	5,484.1	5,483.3	11.6	4.8	-163.88	49.2	-90.6	341.1	326.6	14.57	23.415		
5,600.0	5,584.9	5,583.0	5,582.2	11.8	4.9	-164.23	49.2	-90.7	348.9	334.1	14.83	23.536		
5,700.0	5,684.6	5,681.9	5,681.1	12.0	5.0	-164.59	48.8	-90.8	357.0	341.9	15.08	23.671		
5,800.0	5,784.3	5,780.7	5,779.9	12.2	5.1	-164.98	48.2	-90.6	365.3	350.0	15.34	23.818		
5,900.0	5,883.9	5,878.9	5,878.1	12.5	5.2	-165.38	47.3	-90.4	373.9	358.3	15.59	23.981		
6,000.0	5,983.6	5,975.3	5,974.5	12.7	5.2	-165.70	46.0	-90.7	383.1	367.3	15.85	24.175		
6,100.0	6,083.3	6,071.5	6,070.6	12.9	5.3	-165.91	44.0	-91.8	393.2	377.1	16.11	24.414		
6,200.0	6,183.0	6,168.7	6,167.8	13.1	5.4	-165.99	41.7	-94.0	404.1	387.7	16.37	24.684		
6,300.0	6,282.6	6,270.5	6,269.5	13.4	5.5	-165.89	39.5	-97.7	415.0	398.3	16.64	24.938		
6,400.0	6,382.3	6,370.5	6,369.4	13.6	5.6	-165.70	38.3	-101.7	425.3	408.4	16.91	25.144		
6,500.0	6,482.0	6,469.3	6,468.1	13.8	5.7	-165.46	37.0	-106.1	435.7	418.5	17.19	25.352		
6,600.0	6,581.7	6,568.9	6,567.7	14.0	5.8	-165.30	35.5	-110.0	446.2	428.8	17.46	25.560		
6,700.0	6,681.3	6,669.0	6,667.6	14.3	5.9	-165.15	34.2	-114.0	456.6	438.9	17.73	25.754		
6,800.0	6,781.0	6,771.7	6,770.2	14.5	6.0	-164.93	33.2	-118.4	466.7	448.7	18.01	25.917		
6,900.0	6,880.7	6,874.8	6,873.2	14.7	6.0	-164.71	33.2	-122.7	476.0	457.7	18.29	26.029		
7,000.0	6,980.6	6,974.2	6,972.5	14.8	6.1	26.61	33.6	-127.0	479.3	460.8	18.50	25.914		
7,100.0	7,079.3	7,074.9	7,073.2	14.8	6.2	24.00	34.2	-131.9	466.7	448.1	18.57	25.133		
7,200.0	7,173.9	7,167.7	7,165.8	14.6	6.3	26.76	35.1	-136.3	438.5	419.9	18.54	23.647		
7,300.0	7,261.6	7,251.3	7,249.3	14.3	6.4	32.30	35.6	-141.2	397.3	378.8	18.51	21.462		
7,400.0	7,339.5	7,327.0	7,324.8	14.0	6.5	41.42	35.7	-146.1	346.3	327.6	18.65	18.567		
7,500.0	7,405.5	7,392.6	7,390.3	13.7	6.5	54.99	35.8	-150.7	289.8	270.7	19.09	15.181		
7,600.0	7,457.5	7,445.1	7,442.7	13.5	6.6	71.09	36.2	-154.5	237.1	217.5	19.63	12.082		
7,700.0	7,493.8	7,480.7	7,478.1	13.5	6.6	83.52	36.8	-157.0	205.1	185.2	19.92	10.295		
7,732.4	7,502.1	7,488.4	7,485.9	13.5	6.6	85.87	36.9	-157.6	202.7	182.7	20.01	10.132 SF		
7,800.0	7,513.5	7,498.6	7,496.0	13.6	6.6	87.63	37.1	-158.3	213.2	193.0	20.15	10.579		
7,900.0	7,517.0	7,500.1	7,497.5	14.0	6.6	85.08	37.1	-158.4	261.1	240.5	20.52	12.725		
8,000.0	7,517.0	7,498.2	7,495.6	14.6	6.6	84.54	37.1	-158.3	332.8	311.7	21.10	15.774		
8,100.0	7,517.0	7,496.3	7,493.7	15.4	6.6	84.01	37.0	-158.1	416.4	394.5	21.86	19.051		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	-89.94	0.0	-30.7	30.8					
100.0	100.0	98.0	98.0	0.2	0.1	-89.94	0.0	-30.7	30.7	30.4	0.30	103.417		
200.0	200.0	198.0	198.0	0.3	0.3	-89.94	0.0	-30.7	30.7	30.1	0.65	47.600		
300.0	300.0	298.0	298.0	0.5	0.5	-89.94	0.0	-30.7	30.7	29.7	0.99	30.898		
400.0	400.0	398.0	398.0	0.7	0.7	-89.94	0.0	-30.7	30.7	29.4	1.34	22.873		
500.0	500.0	498.0	498.0	0.8	0.8	-89.94	0.0	-30.7	30.7	29.0	1.69	18.157		
600.0	600.0	598.0	598.0	1.0	1.0	-89.94	0.0	-30.7	30.7	28.7	2.04	15.053		
700.0	700.0	698.0	698.0	1.2	1.2	-89.94	0.0	-30.7	30.7	28.3	2.39	12.855		
800.0	800.0	798.0	798.0	1.4	1.4	-89.94	0.0	-30.7	30.7	28.0	2.74	11.218 CC		
900.0	900.0	898.0	898.0	1.5	1.5	-97.97	0.0	-30.7	30.9	27.8	3.09	10.009 ES		
1,000.0	999.8	997.8	997.8	1.7	1.7	-107.23	0.0	-30.7	32.1	28.6	3.45	9.308		
1,100.0	1,099.5	1,097.5	1,097.5	1.9	1.9	-119.53	0.0	-30.7	35.2	31.4	3.81	9.259		
1,200.0	1,199.2	1,197.2	1,197.2	2.1	2.1	-129.64	0.0	-30.7	39.8	35.7	4.16	9.569		
1,300.0	1,298.9	1,296.9	1,296.9	2.3	2.2	-137.48	0.0	-30.7	45.4	40.9	4.52	10.054		
1,400.0	1,398.6	1,396.6	1,396.6	2.5	2.4	-143.52	0.0	-30.7	51.6	46.8	4.87	10.609		
1,500.0	1,498.2	1,496.2	1,496.2	2.7	2.6	-148.23	0.0	-30.7	58.3	53.1	5.22	11.179		
1,600.0	1,597.9	1,595.9	1,595.9	3.0	2.8	-151.95	0.0	-30.7	65.3	59.7	5.56	11.736		
1,700.0	1,697.6	1,695.6	1,695.6	3.2	2.9	-154.94	0.0	-30.7	72.5	66.6	5.91	12.266		
1,800.0	1,797.3	1,795.3	1,795.3	3.4	3.1	-157.39	0.0	-30.7	79.9	73.6	6.26	12.763		
1,900.0	1,896.9	1,894.9	1,894.9	3.6	3.3	-159.42	0.0	-30.7	87.4	80.8	6.61	13.227		
2,000.0	1,996.6	1,994.6	1,994.6	3.8	3.5	-161.13	0.0	-30.7	95.0	88.0	6.95	13.658		
2,100.0	2,096.3	2,094.3	2,094.3	4.0	3.6	-162.58	0.0	-30.7	102.6	95.3	7.30	14.057		
2,200.0	2,196.0	2,194.0	2,194.0	4.3	3.8	-163.83	0.0	-30.7	110.3	102.7	7.65	14.428		
2,300.0	2,295.6	2,293.6	2,293.6	4.5	4.0	-164.92	0.0	-30.7	118.1	110.1	7.99	14.772		
2,400.0	2,395.3	2,393.3	2,393.3	4.7	4.2	-165.87	0.0	-30.7	125.9	117.6	8.34	15.092		
2,500.0	2,495.0	2,493.0	2,493.0	4.9	4.3	-166.71	0.0	-30.7	133.7	125.0	8.69	15.390		
2,600.0	2,594.7	2,592.7	2,592.7	5.1	4.5	-167.46	0.0	-30.7	141.6	132.5	9.04	15.668		
2,700.0	2,694.3	2,692.3	2,692.3	5.3	4.7	-168.13	0.0	-30.7	149.4	140.1	9.38	15.927		
2,800.0	2,794.0	2,792.0	2,792.0	5.6	4.8	-168.74	0.0	-30.7	157.3	147.6	9.73	16.169		
2,900.0	2,893.7	2,891.7	2,891.7	5.8	5.0	-169.28	0.0	-30.7	165.2	155.2	10.08	16.397		
3,000.0	2,993.4	2,991.4	2,991.4	6.0	5.2	-169.78	0.0	-30.7	173.2	162.7	10.43	16.610		
3,100.0	3,093.0	3,091.0	3,091.0	6.2	5.4	-170.23	0.0	-30.7	181.1	170.3	10.77	16.811		
3,200.0	3,192.7	3,190.7	3,190.7	6.5	5.5	-170.64	0.0	-30.7	189.0	177.9	11.12	17.000		
3,300.0	3,292.4	3,290.4	3,290.4	6.7	5.7	-171.03	0.0	-30.7	197.0	185.5	11.47	17.178		
3,400.0	3,392.1	3,390.1	3,390.1	6.9	5.9	-171.38	0.0	-30.7	204.9	193.1	11.82	17.346		
3,500.0	3,491.7	3,489.7	3,489.7	7.1	6.1	-171.70	0.0	-30.7	212.9	200.8	12.16	17.505		
3,600.0	3,591.4	3,589.4	3,589.4	7.3	6.2	-172.00	0.0	-30.7	220.9	208.4	12.51	17.656		
3,700.0	3,691.1	3,689.1	3,689.1	7.6	6.4	-172.28	0.0	-30.7	228.9	216.0	12.86	17.799		
3,800.0	3,790.8	3,788.8	3,788.8	7.8	6.6	-172.54	0.0	-30.7	236.8	223.6	13.21	17.935		
3,900.0	3,890.4	3,888.4	3,888.4	8.0	6.8	-172.79	0.0	-30.7	244.8	231.3	13.55	18.065		
4,000.0	3,990.1	3,988.1	3,988.1	8.2	6.9	-173.02	0.0	-30.7	252.8	238.9	13.90	18.188		
4,100.0	4,089.8	4,087.8	4,087.8	8.5	7.1	-173.23	0.0	-30.7	260.8	246.6	14.25	18.305		
4,200.0	4,189.5	4,187.5	4,187.5	8.7	7.3	-173.44	0.0	-30.7	268.8	254.2	14.60	18.417		
4,300.0	4,289.1	4,287.1	4,287.1	8.9	7.5	-173.63	0.0	-30.7	276.8	261.9	14.94	18.524		
4,400.0	4,388.8	4,386.8	4,386.8	9.1	7.6	-173.81	0.0	-30.7	284.8	269.5	15.29	18.626		
4,500.0	4,488.5	4,486.5	4,486.5	9.3	7.8	-173.98	0.0	-30.7	292.8	277.2	15.64	18.724		
4,600.0	4,588.2	4,586.2	4,586.2	9.6	8.0	-174.14	0.0	-30.7	300.9	284.9	15.99	18.817		
4,700.0	4,687.8	4,685.8	4,685.8	9.8	8.2	-174.29	0.0	-30.7	308.9	292.5	16.34	18.907		
4,800.0	4,787.5	4,785.5	4,785.5	10.0	8.3	-174.43	0.0	-30.7	316.9	300.2	16.68	18.993		
4,900.0	4,887.2	4,885.2	4,885.2	10.2	8.5	-174.57	0.0	-30.7	324.9	307.9	17.03	19.076		
5,000.0	4,986.9	4,984.9	4,984.9	10.5	8.7	-174.70	0.0	-30.7	332.9	315.5	17.38	19.155		
5,100.0	5,086.5	5,084.5	5,084.5	10.7	8.8	-174.83	0.0	-30.7	340.9	323.2	17.73	19.232		

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

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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 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	5,186.2	5,184.2	5,184.2	10.9	9.0	-174.95	0.0	-30.7	349.0	330.9	18.08	19.305		
5,300.0	5,285.9	5,283.9	5,283.9	11.1	9.2	-175.06	0.0	-30.7	357.0	338.6	18.42	19.376		
5,400.0	5,385.6	5,383.6	5,383.6	11.4	9.4	-175.17	0.0	-30.7	365.0	346.2	18.77	19.445		
5,500.0	5,485.2	5,483.2	5,483.2	11.6	9.5	-175.27	0.0	-30.7	373.0	353.9	19.12	19.510		
5,600.0	5,584.9	5,582.9	5,582.9	11.8	9.7	-175.37	0.0	-30.7	381.1	361.6	19.47	19.574		
5,700.0	5,684.6	5,682.6	5,682.6	12.0	9.9	-175.47	0.0	-30.7	389.1	369.3	19.82	19.635		
5,800.0	5,784.3	5,782.3	5,782.3	12.2	10.1	-175.56	0.0	-30.7	397.1	377.0	20.16	19.695		
5,900.0	5,883.9	5,881.9	5,881.9	12.5	10.2	-175.65	0.0	-30.7	405.1	384.6	20.51	19.752		
6,000.0	5,983.6	5,981.6	5,981.6	12.7	10.4	-175.73	0.0	-30.7	413.2	392.3	20.86	19.807		
6,100.0	6,083.3	6,081.3	6,081.3	12.9	10.6	-175.82	0.0	-30.7	421.2	400.0	21.21	19.861		
6,200.0	6,183.0	6,181.0	6,181.0	13.1	10.8	-175.89	0.0	-30.7	429.2	407.7	21.56	19.913		
6,300.0	6,282.6	6,280.6	6,280.6	13.4	10.9	-175.97	0.0	-30.7	437.3	415.4	21.90	19.963		
6,400.0	6,382.3	6,380.3	6,380.3	13.6	11.1	-176.04	0.0	-30.7	445.3	423.1	22.25	20.012		
6,500.0	6,482.0	6,480.0	6,480.0	13.8	11.3	-176.11	0.0	-30.7	453.3	430.7	22.60	20.060		
6,600.0	6,581.7	6,579.7	6,579.7	14.0	11.5	-176.18	0.0	-30.7	461.4	438.4	22.95	20.105		
6,700.0	6,681.3	6,679.3	6,679.3	14.3	11.6	-176.25	0.0	-30.7	469.4	446.1	23.30	20.150		
6,800.0	6,781.0	6,779.0	6,779.0	14.5	11.8	-176.31	0.0	-30.7	477.5	453.8	23.64	20.193		
6,900.0	6,880.7	6,878.7	6,878.7	14.7	12.0	-176.37	0.0	-30.7	485.5	461.5	23.99	20.235		
7,000.0	6,980.6	6,978.6	6,978.6	14.8	12.2	14.56	0.0	-30.7	487.7	463.4	24.28	20.084		
7,100.0	7,079.3	7,077.3	7,077.3	14.8	12.3	10.71	0.0	-30.7	472.9	448.8	24.12	19.605		
7,200.0	7,173.9	7,171.9	7,171.9	14.6	12.5	11.35	0.0	-30.7	441.5	418.0	23.52	18.773		
7,300.0	7,261.6	7,259.6	7,259.6	14.3	12.6	13.56	0.0	-30.7	394.4	371.9	22.56	17.480		
7,400.0	7,339.5	7,337.5	7,337.5	14.0	12.8	18.06	0.0	-30.7	333.5	312.0	21.51	15.504		
7,500.0	7,405.5	7,403.5	7,403.5	13.7	12.9	27.16	0.0	-30.7	261.0	240.0	21.01	12.423		
7,600.0	7,457.5	7,455.5	7,455.5	13.5	13.0	45.99	0.0	-30.7	181.1	158.5	22.66	7.992		
7,700.0	7,493.8	7,491.8	7,491.8	13.5	13.0	75.03	0.0	-30.7	104.1	78.1	25.94	4.012		
7,773.6	7,510.0	7,508.0	7,508.0	13.6	13.1	90.00	0.0	-30.7	75.4	48.8	26.65	2.830 SF		
7,800.0	7,513.5	7,511.5	7,511.5	13.6	13.1	92.20	0.0	-30.7	79.8	53.1	26.69	2.991		
7,900.0	7,517.0	7,515.0	7,515.0	14.0	13.1	90.00	0.0	-30.7	146.8	119.8	27.10	5.419		
8,000.0	7,517.0	7,515.0	7,515.0	14.6	13.1	90.00	0.0	-30.7	238.2	210.6	27.69	8.604		
8,100.0	7,517.0	7,515.0	7,515.0	15.4	13.1	90.00	0.0	-30.7	334.6	306.1	28.46	11.757		
8,200.0	7,517.0	7,515.0	7,515.0	16.3	13.1	90.00	0.0	-30.7	432.6	403.2	29.38	14.724		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	-89.98	0.0	-30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.98	0.0	-30.7	30.7	30.4	0.30	101.218		
200.0	200.0	200.0	200.0	0.3	0.3	-89.98	0.0	-30.7	30.7	30.1	0.65	47.091 CC, ES		
300.0	300.0	299.0	299.0	0.5	0.5	-88.69	0.7	-32.3	32.3	31.3	1.00	32.282		
400.0	400.0	397.8	397.6	0.7	0.7	-85.49	2.9	-36.9	37.1	35.8	1.35	27.457		
500.0	500.0	496.1	495.5	0.8	0.9	-81.69	6.5	-44.6	45.3	43.6	1.70	26.574 SF		
600.0	600.0	593.7	592.4	1.0	1.2	-78.24	11.5	-55.2	56.9	54.8	2.05	27.678		
700.0	700.0	690.3	688.0	1.2	1.5	-75.46	17.8	-68.6	71.9	69.5	2.40	29.909		
800.0	800.0	788.5	784.6	1.4	1.8	-73.40	25.1	-84.1	89.2	86.4	2.75	32.372		
900.0	900.0	887.0	881.6	1.5	2.1	-77.40	32.4	-99.8	106.1	103.0	3.09	34.375		
1,000.0	999.8	985.6	978.7	1.7	2.5	-78.36	39.8	-115.4	122.4	118.9	3.45	35.464		
1,100.0	1,099.5	1,084.3	1,075.8	1.9	2.8	-80.33	47.1	-131.0	138.2	134.4	3.83	36.059		
1,200.0	1,199.2	1,182.9	1,172.9	2.1	3.2	-82.04	54.4	-146.6	154.1	149.9	4.23	36.473		
1,300.0	1,298.9	1,281.5	1,270.0	2.3	3.5	-83.43	61.8	-162.3	170.2	165.6	4.63	36.771		
1,400.0	1,398.6	1,380.2	1,367.1	2.5	3.9	-84.57	69.1	-177.9	186.3	181.3	5.04	36.989		
1,500.0	1,498.2	1,478.8	1,464.2	2.7	4.2	-85.54	76.4	-193.5	202.5	197.1	5.45	37.149		
1,600.0	1,597.9	1,577.4	1,561.3	3.0	4.5	-86.36	83.8	-209.1	218.8	212.9	5.87	37.268		
1,700.0	1,697.6	1,676.0	1,658.4	3.2	4.9	-87.07	91.1	-224.8	235.1	228.8	6.29	37.357		
1,800.0	1,797.3	1,774.7	1,755.5	3.4	5.2	-87.68	98.4	-240.4	251.4	244.7	6.72	37.424		
1,900.0	1,896.9	1,873.3	1,852.6	3.6	5.6	-88.22	105.8	-256.0	267.7	260.6	7.14	37.475		
2,000.0	1,996.6	1,971.9	1,949.7	3.8	5.9	-88.70	113.1	-271.6	284.1	276.5	7.57	37.514		
2,100.0	2,096.3	2,070.5	2,046.8	4.0	6.3	-89.13	120.4	-287.3	300.4	292.4	8.00	37.543		
2,200.0	2,196.0	2,169.2	2,144.0	4.3	6.6	-89.51	127.8	-302.9	316.8	308.4	8.43	37.565		
2,300.0	2,295.6	2,267.8	2,241.1	4.5	7.0	-89.86	135.1	-318.5	333.2	324.4	8.87	37.581		
2,400.0	2,395.3	2,366.4	2,338.2	4.7	7.3	-90.17	142.4	-334.1	349.7	340.4	9.30	37.593		
2,500.0	2,495.0	2,465.0	2,435.3	4.9	7.7	-90.45	149.8	-349.8	366.1	356.3	9.74	37.602		
2,600.0	2,594.7	2,563.7	2,532.4	5.1	8.0	-90.71	157.1	-365.4	382.5	372.3	10.17	37.608		
2,700.0	2,694.3	2,662.3	2,629.5	5.3	8.4	-90.95	164.4	-381.0	399.0	388.3	10.61	37.612		
2,800.0	2,794.0	2,760.9	2,726.6	5.6	8.7	-91.17	171.8	-396.6	415.4	404.4	11.04	37.614		
2,900.0	2,893.7	2,859.5	2,823.7	5.8	9.1	-91.37	179.1	-412.3	431.8	420.4	11.48	37.615		
3,000.0	2,993.4	2,958.2	2,920.8	6.0	9.4	-91.56	186.5	-427.9	448.3	436.4	11.92	37.615		
3,100.0	3,093.0	3,056.8	3,017.9	6.2	9.8	-91.74	193.8	-443.5	464.8	452.4	12.36	37.613		
3,200.0	3,192.7	3,155.4	3,115.0	6.5	10.1	-91.90	201.1	-459.1	481.2	468.4	12.79	37.612		
3,300.0	3,292.4	3,254.1	3,212.1	6.7	10.5	-92.05	208.5	-474.8	497.7	484.5	13.23	37.609		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	-89.94	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-22.4	22.4	22.1	0.30	73.613		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-22.4	22.4	21.7	0.65	34.248		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-22.4	22.4	21.4	1.00	22.315		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	0.0	-22.4	22.4	21.0	1.35	16.549 CC, ES		
500.0	500.0	499.4	499.3	0.8	0.9	-87.36	1.1	-23.7	23.7	22.0	1.70	13.968		
600.0	600.0	598.5	598.3	1.0	1.0	-81.23	4.3	-27.8	28.1	26.1	2.05	13.712 SF		
700.0	700.0	697.1	696.6	1.2	1.2	-74.49	9.6	-34.4	35.9	33.5	2.40	14.931		
800.0	800.0	795.8	794.6	1.4	1.5	-69.03	16.6	-43.4	46.8	44.1	2.76	16.983		
900.0	900.0	895.2	893.3	1.5	1.7	-71.77	24.0	-52.8	57.8	54.7	3.10	18.627		
1,000.0	999.8	994.7	992.1	1.7	2.0	-73.11	31.4	-62.1	67.7	64.3	3.47	19.531		
1,100.0	1,099.5	1,094.2	1,090.9	1.9	2.2	-76.11	38.8	-71.5	77.0	73.2	3.85	19.999		
1,200.0	1,199.2	1,193.7	1,189.6	2.1	2.5	-78.61	46.1	-80.8	86.5	82.2	4.25	20.358		
1,300.0	1,298.9	1,293.2	1,288.4	2.3	2.8	-80.61	53.5	-90.2	96.1	91.4	4.65	20.644		
1,400.0	1,398.6	1,392.7	1,387.2	2.5	3.0	-82.25	60.9	-99.5	105.7	100.7	5.06	20.875		
1,500.0	1,498.2	1,492.2	1,486.0	2.7	3.3	-83.62	68.3	-108.9	115.5	110.0	5.48	21.064		
1,600.0	1,597.9	1,591.6	1,584.7	3.0	3.5	-84.77	75.6	-118.2	125.3	119.3	5.90	21.220		
1,700.0	1,697.6	1,691.1	1,683.5	3.2	3.8	-85.75	83.0	-127.6	135.1	128.8	6.33	21.351		
1,800.0	1,797.3	1,790.6	1,782.3	3.4	4.1	-86.60	90.4	-136.9	145.0	138.2	6.75	21.461		
1,900.0	1,896.9	1,890.1	1,881.1	3.6	4.4	-87.35	97.8	-146.2	154.9	147.7	7.18	21.556		
2,000.0	1,996.6	1,989.6	1,979.8	3.8	4.6	-88.00	105.2	-155.6	164.8	157.2	7.62	21.638		
2,100.0	2,096.3	2,089.1	2,078.6	4.0	4.9	-88.58	112.5	-164.9	174.7	166.7	8.05	21.709		
2,200.0	2,196.0	2,188.6	2,177.4	4.3	5.2	-89.09	119.9	-174.3	184.7	176.2	8.48	21.771		
2,300.0	2,295.6	2,288.1	2,276.2	4.5	5.4	-89.56	127.3	-183.6	194.6	185.7	8.92	21.826		
2,400.0	2,395.3	2,387.6	2,374.9	4.7	5.7	-89.98	134.7	-193.0	204.6	195.3	9.35	21.875		
2,500.0	2,495.0	2,487.1	2,473.7	4.9	6.0	-90.36	142.0	-202.3	214.6	204.8	9.79	21.919		
2,600.0	2,594.7	2,586.6	2,572.5	5.1	6.2	-90.70	149.4	-211.7	224.6	214.4	10.23	21.958		
2,700.0	2,694.3	2,686.0	2,671.3	5.3	6.5	-91.02	156.8	-221.0	234.6	224.0	10.67	21.993		
2,800.0	2,794.0	2,785.5	2,770.0	5.6	6.8	-91.31	164.2	-230.4	244.6	233.5	11.11	22.026		
2,900.0	2,893.7	2,885.0	2,868.8	5.8	7.0	-91.58	171.5	-239.7	254.7	243.1	11.55	22.055		
3,000.0	2,993.4	2,984.5	2,967.6	6.0	7.3	-91.82	178.9	-249.1	264.7	252.7	11.99	22.082		
3,100.0	3,093.0	3,084.0	3,066.4	6.2	7.6	-92.05	186.3	-258.4	274.7	262.3	12.43	22.107		
3,200.0	3,192.7	3,183.5	3,165.1	6.5	7.9	-92.27	193.7	-267.8	284.7	271.9	12.87	22.129		
3,300.0	3,292.4	3,283.0	3,263.9	6.7	8.1	-92.46	201.0	-277.1	294.8	281.5	13.31	22.150		
3,400.0	3,392.1	3,382.5	3,362.7	6.9	8.4	-92.65	208.4	-286.5	304.8	291.1	13.75	22.170		
3,500.0	3,491.7	3,482.0	3,461.5	7.1	8.7	-92.82	215.8	-295.8	314.9	300.7	14.19	22.188		
3,600.0	3,591.4	3,581.5	3,560.2	7.3	8.9	-92.99	223.2	-305.2	324.9	310.3	14.63	22.204		
3,700.0	3,691.1	3,680.9	3,659.0	7.6	9.2	-93.14	230.5	-314.5	334.9	319.9	15.07	22.220		
3,800.0	3,790.8	3,780.4	3,757.8	7.8	9.5	-93.28	237.9	-323.9	345.0	329.5	15.52	22.235		
3,900.0	3,890.4	3,879.9	3,856.6	8.0	9.8	-93.42	245.3	-333.2	355.0	339.1	15.96	22.249		
4,000.0	3,990.1	3,979.4	3,955.3	8.2	10.0	-93.55	252.7	-342.6	365.1	348.7	16.40	22.262		
4,100.0	4,089.8	4,078.9	4,054.1	8.5	10.3	-93.67	260.0	-351.9	375.2	358.3	16.84	22.274		
4,200.0	4,189.5	4,178.4	4,152.9	8.7	10.6	-93.78	267.4	-361.3	385.2	367.9	17.29	22.285		
4,300.0	4,289.1	4,277.9	4,251.7	8.9	10.8	-93.89	274.8	-370.6	395.3	377.5	17.73	22.296		
4,400.0	4,388.8	4,377.4	4,350.4	9.1	11.1	-94.00	282.2	-380.0	405.3	387.2	18.17	22.306		
4,500.0	4,488.5	4,476.9	4,449.2	9.3	11.4	-94.10	289.6	-389.3	415.4	396.8	18.61	22.316		
4,600.0	4,588.2	4,576.4	4,548.0	9.6	11.6	-94.19	296.9	-398.7	425.5	406.4	19.06	22.325		
4,700.0	4,687.8	4,675.8	4,646.8	9.8	11.9	-94.28	304.3	-408.0	435.5	416.0	19.50	22.334		
4,800.0	4,787.5	4,775.3	4,745.5	10.0	12.2	-94.37	311.7	-417.4	445.6	425.6	19.94	22.342		
4,900.0	4,887.2	4,874.8	4,844.3	10.2	12.5	-94.45	319.1	-426.7	455.6	435.3	20.39	22.350		
5,000.0	4,986.9	4,974.3	4,943.1	10.5	12.7	-94.53	326.4	-436.1	465.7	444.9	20.83	22.358		
5,100.0	5,086.5	5,073.8	5,041.9	10.7	13.0	-94.60	333.8	-445.4	475.8	454.5	21.27	22.365		

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 2D-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 2D-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
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	Separation Factor			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis			
5,200.0	5,186.2	5,173.3	5,140.6	10.9	13.3	-94.68	341.2	-454.8	485.8	464.1	21.72	22.372		
5,300.0	5,285.9	5,272.8	5,239.4	11.1	13.5	-94.74	348.6	-464.1	495.9	473.8	22.16	22.378		

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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	-89.91	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.91	0.0	-11.2	11.2	10.9	0.30	36.807		
200.0	200.0	200.0	200.0	0.3	0.3	-89.91	0.0	-11.2	11.2	10.5	0.65	17.124		
300.0	300.0	300.0	300.0	0.5	0.5	-89.91	0.0	-11.2	11.2	10.2	1.00	11.157		
400.0	400.0	400.0	400.0	0.7	0.7	-89.91	0.0	-11.2	11.2	9.8	1.35	8.274		
500.0	500.0	500.0	500.0	0.8	0.8	-89.91	0.0	-11.2	11.2	9.5	1.70	6.575		
600.0	600.0	600.0	600.0	1.0	1.0	-89.91	0.0	-11.2	11.2	9.1	2.05	5.455		
700.0	700.0	700.0	700.0	1.2	1.2	-89.91	0.0	-11.2	11.2	8.8	2.40	4.661		
800.0	800.0	800.0	800.0	1.4	1.4	-89.91	0.0	-11.2	11.2	8.4	2.75	4.069 CC		
900.0	900.0	900.0	900.0	1.5	1.5	-103.45	0.0	-11.2	11.5	8.4	3.10	3.698 ES		
1,000.0	999.8	999.8	999.8	1.7	1.7	-125.27	0.0	-11.2	13.7	10.2	3.45	3.959		
1,100.0	1,099.5	1,099.5	1,099.5	1.9	1.9	-144.70	0.0	-11.2	19.3	15.5	3.80	5.087		
1,200.0	1,199.2	1,199.2	1,199.2	2.1	2.1	-154.88	0.0	-11.2	26.3	22.2	4.15	6.348		
1,300.0	1,298.9	1,299.6	1,299.6	2.3	2.2	-158.36	1.6	-12.0	32.7	28.2	4.50	7.278		
1,400.0	1,398.6	1,400.2	1,400.0	2.5	2.4	-156.46	6.3	-14.3	37.1	32.3	4.86	7.639		
1,500.0	1,498.2	1,500.7	1,500.2	2.7	2.6	-150.74	14.0	-18.3	39.7	34.5	5.24	7.581		
1,600.0	1,597.9	1,600.6	1,599.5	3.0	2.8	-144.14	23.0	-22.8	42.2	36.5	5.64	7.471		
1,700.0	1,697.6	1,700.4	1,698.9	3.2	3.0	-138.33	31.9	-27.4	45.1	39.0	6.06	7.437		
1,800.0	1,797.3	1,800.3	1,798.2	3.4	3.2	-133.27	40.9	-31.9	48.4	41.9	6.50	7.456		
1,900.0	1,896.9	1,900.2	1,897.6	3.6	3.5	-128.90	49.8	-36.5	52.1	45.2	6.94	7.511		
2,000.0	1,996.6	2,000.0	1,996.9	3.8	3.7	-125.11	58.7	-41.0	56.0	48.6	7.38	7.588		
2,100.0	2,096.3	2,099.9	2,096.3	4.0	3.9	-121.83	67.7	-45.5	60.1	52.3	7.83	7.681		
2,200.0	2,196.0	2,199.7	2,195.7	4.3	4.1	-118.98	76.6	-50.1	64.5	56.2	8.28	7.782		
2,300.0	2,295.6	2,299.6	2,295.0	4.5	4.4	-116.50	85.5	-54.6	68.9	60.2	8.73	7.888		
2,400.0	2,395.3	2,399.4	2,394.4	4.7	4.6	-114.31	94.5	-59.2	73.5	64.3	9.19	7.995		
2,500.0	2,495.0	2,499.3	2,493.7	4.9	4.8	-112.39	103.4	-63.7	78.1	68.5	9.64	8.102		
2,600.0	2,594.7	2,599.2	2,593.1	5.1	5.1	-110.68	112.3	-68.2	82.8	72.8	10.09	8.207		
2,700.0	2,694.3	2,699.0	2,692.4	5.3	5.3	-109.16	121.3	-72.8	87.6	77.1	10.55	8.310		
2,800.0	2,794.0	2,798.9	2,791.8	5.6	5.5	-107.80	130.2	-77.3	92.5	81.5	11.00	8.409		
2,900.0	2,893.7	2,898.7	2,891.1	5.8	5.8	-106.57	139.1	-81.9	97.4	85.9	11.45	8.505		
3,000.0	2,993.4	2,998.6	2,990.5	6.0	6.0	-105.46	148.1	-86.4	102.3	90.4	11.90	8.597		
3,100.0	3,093.0	3,098.5	3,089.8	6.2	6.2	-104.46	157.0	-90.9	107.3	95.0	12.35	8.685		
3,200.0	3,192.7	3,198.3	3,189.2	6.5	6.5	-103.54	166.0	-95.5	112.3	99.5	12.81	8.770		
3,300.0	3,292.4	3,298.2	3,288.6	6.7	6.7	-102.70	174.9	-100.0	117.3	104.1	13.26	8.851		
3,400.0	3,392.1	3,398.0	3,387.9	6.9	7.0	-101.93	183.8	-104.6	122.4	108.7	13.71	8.929		
3,500.0	3,491.7	3,497.9	3,487.3	7.1	7.2	-101.22	192.8	-109.1	127.5	113.3	14.16	9.003		
3,600.0	3,591.4	3,597.8	3,586.6	7.3	7.4	-100.57	201.7	-113.6	132.6	118.0	14.61	9.075		
3,700.0	3,691.1	3,697.6	3,686.0	7.6	7.7	-99.97	210.6	-118.2	137.7	122.6	15.06	9.143		
3,800.0	3,790.8	3,797.5	3,785.3	7.8	7.9	-99.40	219.6	-122.7	142.8	127.3	15.51	9.208		
3,900.0	3,890.4	3,897.3	3,884.7	8.0	8.2	-98.88	228.5	-127.3	147.9	132.0	15.96	9.270		
4,000.0	3,990.1	3,997.2	3,984.0	8.2	8.4	-98.39	237.4	-131.8	153.1	136.7	16.41	9.330		
4,100.0	4,089.8	4,097.1	4,083.4	8.5	8.7	-97.94	246.4	-136.3	158.2	141.4	16.86	9.387		
4,200.0	4,189.5	4,196.9	4,182.8	8.7	8.9	-97.51	255.3	-140.9	163.4	146.1	17.30	9.442		
4,300.0	4,289.1	4,296.8	4,282.1	8.9	9.1	-97.11	264.2	-145.4	168.6	150.8	17.75	9.495		
4,400.0	4,388.8	4,396.6	4,381.5	9.1	9.4	-96.73	273.2	-149.9	173.8	155.5	18.20	9.545		
4,500.0	4,488.5	4,496.5	4,480.8	9.3	9.6	-96.37	282.1	-154.5	178.9	160.3	18.65	9.594		
4,600.0	4,588.2	4,596.4	4,580.2	9.6	9.9	-96.04	291.0	-159.0	184.1	165.0	19.10	9.641		
4,700.0	4,687.8	4,696.2	4,679.5	9.8	10.1	-95.72	300.0	-163.6	189.3	169.8	19.55	9.686		
4,800.0	4,787.5	4,796.1	4,778.9	10.0	10.4	-95.42	308.9	-168.1	194.5	174.5	20.00	9.729		
4,900.0	4,887.2	4,895.9	4,878.2	10.2	10.6	-95.14	317.9	-172.6	199.8	179.3	20.45	9.770		
5,000.0	4,986.9	4,995.8	4,977.6	10.5	10.9	-94.87	326.8	-177.2	205.0	184.1	20.89	9.810		
5,100.0	5,086.5	5,095.6	5,076.9	10.7	11.1	-94.61	335.7	-181.7	210.2	188.9	21.34	9.849		

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 2D-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 2D-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: O-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
5,200.0	5,186.2	5,195.5	5,176.3	10.9	11.3	-94.37	344.7	-186.3	215.4	193.6	21.79	9.886			
5,300.0	5,285.9	5,295.4	5,275.7	11.1	11.6	-94.14	353.6	-190.8	220.7	198.4	22.24	9.922			
5,400.0	5,385.6	5,395.2	5,375.0	11.4	11.8	-93.91	362.5	-195.3	225.9	203.2	22.69	9.957			
5,500.0	5,485.2	5,495.1	5,474.4	11.6	12.1	-93.70	371.5	-199.9	231.1	208.0	23.13	9.990			
5,600.0	5,584.9	5,594.9	5,573.7	11.8	12.3	-93.50	380.4	-204.4	236.4	212.8	23.58	10.023			
5,700.0	5,684.6	5,694.8	5,673.1	12.0	12.6	-93.31	389.3	-209.0	241.6	217.6	24.03	10.054			
5,800.0	5,784.3	5,794.7	5,772.4	12.2	12.8	-93.12	398.3	-213.5	246.8	222.4	24.48	10.084			
5,900.0	5,883.9	5,894.5	5,871.8	12.5	13.1	-92.94	407.2	-218.0	252.1	227.2	24.93	10.114			
6,000.0	5,983.6	5,994.4	5,971.1	12.7	13.3	-92.77	416.1	-222.6	257.3	232.0	25.37	10.142			
6,100.0	6,083.3	6,094.2	6,070.5	12.9	13.5	-92.61	425.1	-227.1	262.6	236.8	25.82	10.169			
6,200.0	6,183.0	6,194.1	6,169.9	13.1	13.8	-92.45	434.0	-231.7	267.8	241.6	26.27	10.196			
6,300.0	6,282.6	6,294.0	6,269.2	13.4	14.0	-92.30	443.0	-236.2	273.1	246.4	26.72	10.222			
6,400.0	6,382.3	6,393.8	6,368.6	13.6	14.3	-92.16	451.9	-240.7	278.4	251.2	27.16	10.247			
6,500.0	6,482.0	6,493.7	6,467.9	13.8	14.5	-92.02	460.8	-245.3	283.6	256.0	27.61	10.271			
6,600.0	6,581.7	6,593.5	6,567.3	14.0	14.8	-91.88	469.8	-249.8	288.9	260.8	28.06	10.295			
6,700.0	6,681.3	6,693.7	6,667.0	14.3	15.0	-91.78	478.6	-254.4	294.1	265.6	28.51	10.318			
6,800.0	6,781.0	6,794.8	6,767.8	14.5	15.1	-93.78	476.5	-259.0	299.0	270.1	28.89	10.350			
6,900.0	6,880.7	6,889.6	6,860.7	14.7	15.1	-98.59	458.5	-263.2	305.1	275.9	29.19	10.452			
7,000.0	6,980.6	6,976.5	6,942.1	14.8	14.9	85.73	428.7	-266.9	315.0	285.8	29.24	10.772			
7,100.0	7,079.3	7,059.4	7,014.8	14.8	14.7	75.24	389.1	-270.3	328.1	299.1	28.92	11.343			
7,200.0	7,173.9	7,139.2	7,078.7	14.6	14.4	69.30	341.5	-273.2	342.7	314.5	28.27	12.122			
7,300.0	7,261.6	7,216.7	7,133.8	14.3	14.2	64.63	287.2	-275.7	357.7	330.3	27.38	13.066			
7,400.0	7,339.5	7,292.3	7,180.0	14.0	14.0	60.92	227.5	-277.8	371.8	345.5	26.33	14.119			
7,500.0	7,405.5	7,366.5	7,217.4	13.7	13.9	58.06	163.5	-279.5	384.1	358.8	25.29	15.188			
7,600.0	7,457.5	7,439.7	7,245.9	13.5	13.9	55.98	96.1	-280.8	394.0	369.5	24.43	16.127			
7,700.0	7,493.8	7,512.1	7,265.4	13.5	13.9	54.62	26.4	-281.7	400.9	376.9	23.93	16.748			
7,800.0	7,513.5	7,584.2	7,276.0	13.6	14.1	53.93	-44.9	-282.2	404.5	380.5	23.96	16.880			
7,900.0	7,517.0	7,665.3	7,278.0	14.0	14.4	53.84	-125.9	-282.3	405.0	380.4	24.58	16.475			
8,000.0	7,517.0	7,765.3	7,278.0	14.6	15.0	53.84	-225.9	-282.3	405.0	379.4	25.60	15.820			
8,100.0	7,517.0	7,865.3	7,278.0	15.4	15.7	53.84	-325.9	-282.3	405.0	378.2	26.87	15.071			
8,200.0	7,517.0	7,965.3	7,278.0	16.3	16.6	53.84	-425.9	-282.3	405.0	376.7	28.38	14.274			
8,300.0	7,517.0	8,065.3	7,278.0	17.4	17.7	53.84	-525.9	-282.3	405.0	375.0	30.07	13.469			
8,400.0	7,517.0	8,165.3	7,278.0	18.5	18.8	53.84	-625.9	-282.3	405.0	373.1	31.93	12.685			
8,500.0	7,517.0	8,265.3	7,278.0	19.8	20.0	53.84	-725.9	-282.3	405.0	371.1	33.92	11.939			
8,600.0	7,517.0	8,365.3	7,278.0	21.1	21.3	53.84	-825.9	-282.3	405.0	369.0	36.03	11.240			
8,700.0	7,517.0	8,465.3	7,278.0	22.5	22.7	53.84	-925.9	-282.3	405.0	366.8	38.24	10.593			
8,800.0	7,517.0	8,565.3	7,278.0	23.9	24.1	53.84	-1,025.9	-282.3	405.0	364.5	40.52	9.996			
8,900.0	7,517.0	8,665.3	7,278.0	25.4	25.5	53.84	-1,125.9	-282.3	405.0	362.2	42.87	9.448			
9,000.0	7,517.0	8,765.3	7,278.0	26.9	27.0	53.84	-1,225.9	-282.3	405.0	359.8	45.28	8.945			
9,100.0	7,517.0	8,865.3	7,278.0	28.4	28.5	53.84	-1,325.9	-282.3	405.0	357.3	47.73	8.485			
9,200.0	7,517.0	8,965.3	7,278.0	29.9	30.1	53.84	-1,425.9	-282.3	405.0	354.8	50.23	8.064			
9,300.0	7,517.0	9,065.3	7,278.0	31.5	31.7	53.84	-1,525.9	-282.3	405.0	352.3	52.76	7.677			
9,400.0	7,517.0	9,165.3	7,278.0	33.1	33.2	53.84	-1,625.9	-282.3	405.0	349.7	55.32	7.322			
9,500.0	7,517.0	9,265.3	7,278.0	34.7	34.8	53.84	-1,725.9	-282.3	405.0	347.1	57.91	6.994			
9,600.0	7,517.0	9,365.3	7,278.0	36.4	36.5	53.84	-1,825.9	-282.3	405.0	344.5	60.52	6.693			
9,700.0	7,517.0	9,465.3	7,278.0	38.0	38.1	53.84	-1,925.9	-282.3	405.0	341.9	63.15	6.414			
9,800.0	7,517.0	9,565.3	7,278.0	39.6	39.7	53.84	-2,025.9	-282.3	405.0	339.2	65.80	6.156			
9,900.0	7,517.0	9,665.3	7,278.0	41.3	41.4	53.84	-2,125.9	-282.3	405.0	336.6	68.46	5.917			
10,000.0	7,517.0	9,765.3	7,278.0	42.9	43.0	53.84	-2,225.9	-282.3	405.0	333.9	71.14	5.694			
10,100.0	7,517.0	9,865.3	7,278.0	44.6	44.7	53.84	-2,325.9	-282.3	405.0	331.2	73.82	5.486			
10,200.0	7,517.0	9,965.3	7,278.0	46.3	46.4	53.84	-2,425.9	-282.3	405.0	328.5	76.52	5.293			
10,300.0	7,517.0	10,065.3	7,278.0	48.0	48.0	53.84	-2,525.9	-282.3	405.0	325.8	79.23	5.112			

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 2D-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 2D-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 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
10,400.0	7,517.0	10,165.3	7,278.0	49.7	49.7	53.84	-2,625.9	-282.3	405.0	323.1	81.95	4.942	
10,500.0	7,517.0	10,265.3	7,278.0	51.3	51.4	53.84	-2,725.9	-282.3	405.0	320.4	84.68	4.783	
10,600.0	7,517.0	10,365.3	7,278.0	53.0	53.1	53.84	-2,825.9	-282.3	405.0	317.6	87.42	4.633	
10,700.0	7,517.0	10,465.3	7,278.0	54.7	54.8	53.84	-2,925.9	-282.3	405.0	314.9	90.16	4.493	
10,800.0	7,517.0	10,565.3	7,278.0	56.4	56.5	53.84	-3,025.9	-282.3	405.0	312.1	92.90	4.360	
10,900.0	7,517.0	10,665.3	7,278.0	58.1	58.2	53.84	-3,125.9	-282.3	405.0	309.4	95.66	4.234	
11,000.0	7,517.0	10,765.3	7,278.0	59.9	59.9	53.84	-3,225.9	-282.3	405.0	306.6	98.41	4.116	
11,100.0	7,517.0	10,865.3	7,278.0	61.6	61.6	53.84	-3,325.9	-282.3	405.0	303.9	101.18	4.003	
11,200.0	7,517.0	10,965.3	7,278.0	63.3	63.3	53.84	-3,425.9	-282.3	405.0	301.1	103.94	3.897	
11,300.0	7,517.0	11,065.3	7,278.0	65.0	65.0	53.84	-3,525.9	-282.3	405.0	298.3	106.71	3.796	
11,400.0	7,517.0	11,165.3	7,278.0	66.7	66.7	53.84	-3,625.9	-282.3	405.0	295.5	109.49	3.699	
11,500.0	7,517.0	11,265.3	7,278.0	68.4	68.5	53.84	-3,725.9	-282.3	405.0	292.8	112.26	3.608	
11,600.0	7,517.0	11,365.3	7,278.0	70.2	70.2	53.84	-3,825.9	-282.3	405.0	290.0	115.05	3.521	
11,700.0	7,517.0	11,465.3	7,278.0	71.9	71.9	53.84	-3,925.9	-282.3	405.0	287.2	117.83	3.437	
11,800.0	7,517.0	11,565.3	7,278.0	73.6	73.6	53.84	-4,025.9	-282.3	405.0	284.4	120.62	3.358	
11,900.0	7,517.0	11,665.3	7,278.0	75.3	75.3	53.84	-4,125.9	-282.3	405.0	281.6	123.40	3.282	
12,000.0	7,517.0	11,765.3	7,278.0	77.0	77.1	53.84	-4,225.9	-282.3	405.0	278.8	126.20	3.210	
12,083.5	7,517.0	11,848.8	7,278.0	78.5	78.5	53.84	-4,309.4	-282.3	405.0	276.5	128.53	3.151 SF	

Cathedral Energy Services

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well lone 2D-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 2D-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 Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)					
0.0	0.0	0.0	0.0	0.0	0.0	89.94	0.0	8.4	8.4						
100.0	100.0	100.0	100.0	0.2	0.2	89.94	0.0	8.4	8.4	8.1	0.30	27.605			
200.0	200.0	200.0	200.0	0.3	0.3	89.94	0.0	8.4	8.4	7.7	0.65	12.843			
300.0	300.0	300.0	300.0	0.5	0.5	89.94	0.0	8.4	8.4	7.4	1.00	8.368			
400.0	400.0	400.0	400.0	0.7	0.7	89.94	0.0	8.4	8.4	7.0	1.35	6.206			
500.0	500.0	500.0	500.0	0.8	0.8	89.94	0.0	8.4	8.4	6.7	1.70	4.931			
600.0	600.0	600.0	600.0	1.0	1.0	89.94	0.0	8.4	8.4	6.3	2.05	4.091 CC, ES			
700.0	700.0	699.8	699.8	1.2	1.2	81.64	1.4	9.4	9.5	7.1	2.40	3.980			
800.0	800.0	799.3	799.2	1.4	1.4	66.38	5.5	12.6	13.8	11.0	2.75	5.013			
900.0	900.0	898.5	898.0	1.5	1.6	54.11	12.3	17.8	20.7	17.6	3.10	6.684			
1,000.0	999.8	998.3	997.2	1.7	1.8	54.97	20.5	24.1	27.3	23.8	3.46	7.878			
1,100.0	1,099.5	1,098.2	1,096.5	1.9	2.0	59.43	28.7	30.4	32.4	28.5	3.84	8.436			
1,200.0	1,199.2	1,198.0	1,195.9	2.1	2.3	62.90	36.9	36.6	37.6	33.3	4.23	8.883			
1,300.0	1,298.9	1,297.8	1,295.2	2.3	2.5	65.52	45.0	42.9	42.9	38.2	4.63	9.256			
1,400.0	1,398.6	1,397.7	1,394.5	2.5	2.7	67.57	53.2	49.1	48.2	43.2	5.04	9.570			
1,500.0	1,498.2	1,497.5	1,493.8	2.7	3.0	69.20	61.4	55.4	53.6	48.2	5.45	9.835			
1,600.0	1,597.9	1,597.4	1,593.1	3.0	3.2	70.53	69.5	61.7	59.1	53.2	5.87	10.060			
1,700.0	1,697.6	1,697.2	1,692.4	3.2	3.4	71.64	77.7	67.9	64.6	58.3	6.30	10.253			
1,800.0	1,797.3	1,797.1	1,791.7	3.4	3.7	72.57	85.9	74.2	70.1	63.3	6.72	10.420			
1,900.0	1,896.9	1,896.9	1,891.0	3.6	3.9	73.37	94.1	80.5	75.6	68.4	7.15	10.565			
2,000.0	1,996.6	1,996.7	1,990.3	3.8	4.2	74.06	102.2	86.7	81.1	73.5	7.58	10.693			
2,100.0	2,096.3	2,096.6	2,089.7	4.0	4.4	74.66	110.4	93.0	86.6	78.6	8.02	10.806			
2,200.0	2,196.0	2,196.4	2,189.0	4.3	4.7	75.19	118.6	99.2	92.2	83.7	8.45	10.906			
2,300.0	2,295.6	2,296.3	2,288.3	4.5	4.9	75.66	126.8	105.5	97.7	88.8	8.89	10.996			
2,400.0	2,395.3	2,396.1	2,387.6	4.7	5.2	76.08	134.9	111.8	103.3	93.9	9.32	11.077			
2,500.0	2,495.0	2,496.0	2,486.9	4.9	5.4	76.45	143.1	118.0	108.8	99.1	9.76	11.150			
2,600.0	2,594.7	2,595.8	2,586.2	5.1	5.7	76.79	151.3	124.3	114.4	104.2	10.20	11.216			
2,700.0	2,694.3	2,695.6	2,685.5	5.3	5.9	77.10	159.5	130.6	119.9	109.3	10.64	11.277			
2,800.0	2,794.0	2,795.5	2,784.8	5.6	6.2	77.38	167.6	136.8	125.5	114.4	11.08	11.332			
2,900.0	2,893.7	2,895.3	2,884.1	5.8	6.4	77.64	175.8	143.1	131.1	119.6	11.52	11.383			
3,000.0	2,993.4	2,995.2	2,983.5	6.0	6.7	77.87	184.0	149.4	136.7	124.7	11.96	11.429			
3,100.0	3,093.0	3,095.0	3,082.8	6.2	6.9	78.09	192.1	155.6	142.2	129.8	12.40	11.472			
3,200.0	3,192.7	3,194.9	3,182.1	6.5	7.1	78.29	200.3	161.9	147.8	135.0	12.84	11.512			
3,300.0	3,292.4	3,294.7	3,281.4	6.7	7.4	78.48	208.5	168.1	153.4	140.1	13.28	11.550			
3,400.0	3,392.1	3,394.5	3,380.7	6.9	7.6	78.65	216.7	174.4	159.0	145.3	13.72	11.584			
3,500.0	3,491.7	3,494.4	3,480.0	7.1	7.9	78.81	224.8	180.7	164.6	150.4	14.17	11.616			
3,600.0	3,591.4	3,594.2	3,579.3	7.3	8.1	78.96	233.0	186.9	170.1	155.5	14.61	11.647			
3,700.0	3,691.1	3,694.1	3,678.6	7.6	8.4	79.10	241.2	193.2	175.7	160.7	15.05	11.675			
3,800.0	3,790.8	3,793.9	3,777.9	7.8	8.6	79.24	249.4	199.5	181.3	165.8	15.49	11.702			
3,900.0	3,890.4	3,893.8	3,877.2	8.0	8.9	79.36	257.5	205.7	186.9	171.0	15.94	11.727			
4,000.0	3,990.1	3,993.6	3,976.6	8.2	9.1	79.48	265.7	212.0	192.5	176.1	16.38	11.750			
4,100.0	4,089.8	4,093.4	4,075.9	8.5	9.4	79.59	273.9	218.2	198.1	181.3	16.83	11.773			
4,200.0	4,189.5	4,193.3	4,175.2	8.7	9.6	79.69	282.0	224.5	203.7	186.4	17.27	11.794			
4,300.0	4,289.1	4,293.1	4,274.5	8.9	9.9	79.79	290.2	230.8	209.3	191.5	17.71	11.814			
4,400.0	4,388.8	4,393.0	4,373.8	9.1	10.1	79.89	298.4	237.0	214.8	196.7	18.16	11.833			
4,500.0	4,488.5	4,492.8	4,473.1	9.3	10.4	79.98	306.6	243.3	220.4	201.8	18.60	11.851			
4,600.0	4,588.2	4,592.7	4,572.4	9.6	10.6	80.06	314.7	249.6	226.0	207.0	19.05	11.868			
4,700.0	4,687.8	4,692.5	4,671.7	9.8	10.9	80.14	322.9	255.8	231.6	212.1	19.49	11.884			
4,800.0	4,787.5	4,792.3	4,771.0	10.0	11.1	80.22	331.1	262.1	237.2	217.3	19.94	11.899			
4,900.0	4,887.2	4,892.2	4,870.4	10.2	11.4	80.29	339.3	268.3	242.8	222.4	20.38	11.914			
5,000.0	4,986.9	4,992.0	4,969.7	10.5	11.6	80.36	347.4	274.6	248.4	227.6	20.82	11.928			
5,100.0	5,086.5	5,091.9	5,069.0	10.7	11.9	80.43	355.6	280.9	254.0	232.7	21.27	11.942			

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 2D-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 2D-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: O-MWD													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,186.2	5,191.7	5,168.3	10.9	12.1	80.49	363.8	287.1	259.6	237.9	21.71	11.955		
5,300.0	5,285.9	5,291.6	5,267.6	11.1	12.4	80.55	372.0	293.4	265.2	243.0	22.16	11.967		
5,400.0	5,385.6	5,391.4	5,366.9	11.4	12.6	80.61	380.1	299.7	270.8	248.2	22.60	11.979		
5,500.0	5,485.2	5,491.2	5,466.2	11.6	12.9	80.67	388.3	305.9	276.4	253.3	23.05	11.991		
5,600.0	5,584.9	5,591.1	5,565.5	11.8	13.1	80.72	396.5	312.2	282.0	258.5	23.49	12.002		
5,700.0	5,684.6	5,690.9	5,664.8	12.0	13.4	80.78	404.6	318.4	287.6	263.6	23.94	12.012		
5,800.0	5,784.3	5,790.8	5,764.1	12.2	13.6	80.83	412.8	324.7	293.2	268.8	24.39	12.022		
5,900.0	5,883.9	5,890.6	5,863.5	12.5	13.9	80.87	421.0	331.0	298.8	273.9	24.83	12.032		
6,000.0	5,983.6	5,990.5	5,962.8	12.7	14.1	80.92	429.2	337.2	304.4	279.1	25.28	12.041		
6,100.0	6,083.3	6,090.3	6,062.1	12.9	14.4	80.97	437.3	343.5	310.0	284.2	25.72	12.050		
6,200.0	6,183.0	6,190.1	6,161.4	13.1	14.6	81.01	445.5	349.8	315.5	289.4	26.17	12.059		
6,300.0	6,282.6	6,290.0	6,260.7	13.4	14.9	81.05	453.7	356.0	321.1	294.5	26.61	12.068		
6,400.0	6,382.3	6,389.8	6,360.0	13.6	15.1	81.09	461.9	362.3	326.7	299.7	27.06	12.076		
6,500.0	6,482.0	6,489.7	6,459.3	13.8	15.4	81.13	470.0	368.6	332.3	304.8	27.50	12.084		
6,600.0	6,581.7	6,589.5	6,558.6	14.0	15.6	81.17	478.2	374.8	337.9	310.0	27.95	12.091		
6,700.0	6,681.3	6,689.9	6,658.5	14.3	15.9	81.23	486.2	381.1	343.5	315.1	28.39	12.099		
6,800.0	6,781.0	6,792.2	6,760.4	14.5	16.0	83.18	483.0	387.5	348.6	319.7	28.84	12.087		
6,900.0	6,880.7	6,887.6	6,853.5	14.7	15.9	87.55	463.6	393.4	354.4	325.2	29.29	12.103		
7,000.0	6,980.6	6,974.6	6,934.6	14.8	15.8	-75.60	432.7	398.5	363.8	334.2	29.56	12.305		
7,100.0	7,079.3	7,057.5	7,006.6	14.8	15.6	-74.43	392.1	403.1	376.1	346.7	29.44	12.777		
7,200.0	7,173.9	7,137.2	7,069.7	14.6	15.4	-70.17	343.7	407.0	390.2	361.3	28.93	13.489		
7,300.0	7,261.6	7,214.4	7,123.9	14.3	15.2	-66.21	288.8	410.5	404.6	376.6	28.08	14.409		
7,400.0	7,339.5	7,289.7	7,169.1	14.0	15.0	-62.85	228.7	413.3	418.4	391.4	27.02	15.483		
7,500.0	7,405.5	7,363.6	7,205.5	13.7	14.9	-60.16	164.6	415.6	430.6	404.7	25.92	16.617		
7,600.0	7,457.5	7,436.4	7,233.0	13.5	14.9	-58.14	97.3	417.3	440.6	415.6	24.97	17.647		
7,700.0	7,493.8	7,508.4	7,251.7	13.5	14.9	-56.76	27.7	418.5	447.7	423.3	24.39	18.353		
7,800.0	7,513.5	7,580.0	7,261.4	13.6	15.1	-56.01	-43.1	419.1	451.7	427.3	24.39	18.520		
7,900.0	7,517.0	7,662.8	7,263.0	14.0	15.4	-55.85	-125.9	419.2	452.5	427.5	25.03	18.078		
8,000.0	7,517.0	7,762.8	7,263.0	14.6	15.9	-55.85	-225.9	419.2	452.5	426.5	26.06	17.364		
8,100.0	7,517.0	7,862.8	7,263.0	15.4	16.6	-55.85	-325.9	419.2	452.5	425.2	27.36	16.542		
8,200.0	7,517.0	7,962.8	7,263.0	16.3	17.5	-55.85	-425.9	419.2	452.5	423.6	28.89	15.665		
8,300.0	7,517.0	8,062.8	7,263.0	17.4	18.5	-55.85	-525.9	419.2	452.5	421.9	30.62	14.778		
8,400.0	7,517.0	8,162.8	7,263.0	18.5	19.6	-55.85	-625.9	419.2	452.5	420.0	32.52	13.914		
8,500.0	7,517.0	8,262.8	7,263.0	19.8	20.7	-55.85	-725.9	419.2	452.5	418.0	34.57	13.092		
8,600.0	7,517.0	8,362.8	7,263.0	21.1	22.0	-55.85	-825.9	419.2	452.5	415.8	36.73	12.322		
8,700.0	7,517.0	8,462.8	7,263.0	22.5	23.3	-55.85	-925.9	419.2	452.5	413.5	38.98	11.608		
8,800.0	7,517.0	8,562.8	7,263.0	23.9	24.7	-55.85	-1,025.9	419.2	452.5	411.2	41.32	10.951		
8,900.0	7,517.0	8,662.8	7,263.0	25.4	26.1	-55.85	-1,125.9	419.2	452.5	408.8	43.73	10.348		
9,000.0	7,517.0	8,762.8	7,263.0	26.9	27.6	-55.85	-1,225.9	419.2	452.5	406.3	46.20	9.795		
9,100.0	7,517.0	8,862.8	7,263.0	28.4	29.1	-55.85	-1,325.9	419.2	452.5	403.8	48.72	9.289		
9,200.0	7,517.0	8,962.8	7,263.0	29.9	30.6	-55.85	-1,425.9	419.2	452.5	401.3	51.27	8.826		
9,300.0	7,517.0	9,062.8	7,263.0	31.5	32.1	-55.85	-1,525.9	419.2	452.5	398.7	53.87	8.401		
9,400.0	7,517.0	9,162.8	7,263.0	33.1	33.7	-55.85	-1,625.9	419.2	452.5	396.0	56.49	8.010		
9,500.0	7,517.0	9,262.8	7,263.0	34.7	35.3	-55.85	-1,725.9	419.2	452.5	393.4	59.14	7.651		
9,600.0	7,517.0	9,362.8	7,263.0	36.4	36.9	-55.85	-1,825.9	419.2	452.5	390.7	61.82	7.320		
9,700.0	7,517.0	9,462.8	7,263.0	38.0	38.5	-55.85	-1,925.9	419.2	452.5	388.0	64.51	7.014		
9,800.0	7,517.0	9,562.8	7,263.0	39.6	40.1	-55.85	-2,025.9	419.2	452.5	385.3	67.23	6.731		
9,900.0	7,517.0	9,662.8	7,263.0	41.3	41.7	-55.85	-2,125.9	419.2	452.5	382.6	69.96	6.469		
10,000.0	7,517.0	9,762.8	7,263.0	42.9	43.4	-55.85	-2,225.9	419.2	452.5	379.8	72.70	6.224		
10,100.0	7,517.0	9,862.8	7,263.0	44.6	45.0	-55.85	-2,325.9	419.2	452.5	377.1	75.46	5.997		
10,200.0	7,517.0	9,962.8	7,263.0	46.3	46.7	-55.85	-2,425.9	419.2	452.5	374.3	78.23	5.785		
10,300.0	7,517.0	10,062.8	7,263.0	48.0	48.3	-55.85	-2,525.9	419.2	452.5	371.5	81.00	5.587		

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 2D-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 2D-2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	HZ	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design NWNE S2-T2N-R66W (lone) - lone 2E-2H - HZ - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,400.0	7,517.0	10,162.8	7,263.0	49.7	50.0	-55.85	-2,625.9	419.2	452.5	368.7	83.79	5.401		
10,500.0	7,517.0	10,262.8	7,263.0	51.3	51.7	-55.85	-2,725.9	419.2	452.5	365.9	86.58	5.226		
10,600.0	7,517.0	10,362.8	7,263.0	53.0	53.4	-55.85	-2,825.9	419.2	452.5	363.1	89.39	5.063		
10,700.0	7,517.0	10,462.8	7,263.0	54.7	55.1	-55.85	-2,925.9	419.2	452.5	360.3	92.20	4.908		
10,800.0	7,517.0	10,562.8	7,263.0	56.4	56.8	-55.85	-3,025.9	419.2	452.5	357.5	95.01	4.763		
10,900.0	7,517.0	10,662.8	7,263.0	58.1	58.4	-55.85	-3,125.9	419.2	452.5	354.7	97.83	4.626		
11,000.0	7,517.0	10,762.8	7,263.0	59.9	60.1	-55.85	-3,225.9	419.2	452.5	351.9	100.66	4.496		
11,100.0	7,517.0	10,862.8	7,263.0	61.6	61.8	-55.85	-3,325.9	419.2	452.5	349.0	103.49	4.373		
11,200.0	7,517.0	10,962.8	7,263.0	63.3	63.6	-55.85	-3,425.9	419.2	452.5	346.2	106.32	4.256		
11,300.0	7,517.0	11,062.8	7,263.0	65.0	65.3	-55.85	-3,525.9	419.2	452.5	343.4	109.16	4.145		
11,400.0	7,517.0	11,162.8	7,263.0	66.7	67.0	-55.85	-3,625.9	419.2	452.5	340.5	112.01	4.040		
11,500.0	7,517.0	11,262.8	7,263.0	68.4	68.7	-55.85	-3,725.9	419.2	452.5	337.7	114.85	3.940		
11,600.0	7,517.0	11,362.8	7,263.0	70.2	70.4	-55.85	-3,825.9	419.2	452.5	334.8	117.70	3.845		
11,700.0	7,517.0	11,462.8	7,263.0	71.9	72.1	-55.85	-3,925.9	419.2	452.5	332.0	120.56	3.754		
11,800.0	7,517.0	11,562.8	7,263.0	73.6	73.8	-55.85	-4,025.9	419.2	452.5	329.1	123.41	3.667		
11,900.0	7,517.0	11,662.8	7,263.0	75.3	75.5	-55.85	-4,125.9	419.2	452.5	326.3	126.27	3.584		
12,000.0	7,517.0	11,762.8	7,263.0	77.0	77.3	-55.85	-4,225.9	419.2	452.5	323.4	129.13	3.504		
12,048.8	7,517.0	11,811.7	7,263.0	77.9	78.1	-55.85	-4,274.8	419.2	452.5	322.0	130.53	3.467		
12,083.5	7,517.0	11,842.7	7,263.0	78.5	78.6	-55.85	-4,305.8	419.2	452.5	321.1	131.47	3.442 SF		

Cathedral Energy Services

Anticollision Report

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Reference Site:	NWNE S2-T2N-R66W (lone)	MD Reference:	KB=13' @ 5059.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	lone 2D-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							Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor				
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	19.6	19.6							
100.0	100.0	100.0	100.0	0.2	0.2	90.00	0.0	19.6	19.6	19.3	0.30	64.412				
200.0	200.0	200.0	200.0	0.3	0.3	90.00	0.0	19.6	19.6	18.9	0.65	29.967				
300.0	300.0	300.0	300.0	0.5	0.5	90.00	0.0	19.6	19.6	18.6	1.00	19.525				
400.0	400.0	400.0	400.0	0.7	0.7	90.00	0.0	19.6	19.6	18.2	1.35	14.480 CC, ES				
500.0	500.0	499.4	499.4	0.8	0.9	87.49	0.9	21.0	21.0	19.3	1.70	12.386 SF				
600.0	600.0	598.5	598.4	1.0	1.0	81.76	3.7	25.4	25.7	23.6	2.05	12.542				
700.0	700.0	697.2	696.7	1.2	1.2	75.82	8.2	32.6	33.8	31.4	2.40	14.092				
800.0	800.0	795.2	793.9	1.4	1.5	71.13	14.5	42.6	45.4	42.6	2.74	16.554				
900.0	900.0	894.0	891.7	1.5	1.8	64.41	22.1	54.5	58.7	55.6	3.10	18.952				
1,000.0	999.8	993.2	989.9	1.7	2.0	65.67	29.8	66.6	70.6	67.1	3.46	20.406				
1,100.0	1,099.5	1,092.6	1,088.2	1.9	2.3	68.39	37.4	78.7	81.5	77.7	3.84	21.230				
1,200.0	1,199.2	1,191.9	1,186.5	2.1	2.6	70.61	45.1	90.9	92.5	88.3	4.23	21.864				
1,300.0	1,298.9	1,291.2	1,284.8	2.3	2.9	72.35	52.7	103.0	103.7	99.0	4.63	22.371				
1,400.0	1,398.6	1,390.6	1,383.1	2.5	3.2	73.75	60.4	115.1	114.9	109.8	5.04	22.779				
1,500.0	1,498.2	1,489.9	1,481.4	2.7	3.5	74.91	68.0	127.2	126.1	120.7	5.46	23.113				
1,600.0	1,597.9	1,589.2	1,579.7	3.0	3.8	75.87	75.7	139.3	137.4	131.6	5.88	23.388				
1,700.0	1,697.6	1,688.6	1,678.0	3.2	4.1	76.69	83.3	151.4	148.8	142.5	6.30	23.618				
1,800.0	1,797.3	1,787.9	1,776.3	3.4	4.4	77.40	91.0	163.5	160.1	153.4	6.73	23.813				
1,900.0	1,896.9	1,887.2	1,874.6	3.6	4.7	78.00	98.7	175.6	171.5	164.4	7.15	23.979				
2,000.0	1,996.6	1,986.6	1,972.9	3.8	5.0	78.54	106.3	187.7	182.9	175.4	7.58	24.122				
2,100.0	2,096.3	2,085.9	2,071.2	4.0	5.3	79.01	114.0	199.8	194.3	186.3	8.02	24.246				
2,200.0	2,196.0	2,185.3	2,169.5	4.3	5.6	79.43	121.6	211.9	205.8	197.3	8.45	24.354				
2,300.0	2,295.6	2,284.6	2,267.8	4.5	5.9	79.80	129.3	224.0	217.2	208.3	8.88	24.450				
2,400.0	2,395.3	2,383.9	2,366.1	4.7	6.2	80.14	136.9	236.1	228.7	219.3	9.32	24.535				
2,500.0	2,495.0	2,483.3	2,464.4	4.9	6.5	80.44	144.6	248.2	240.1	230.4	9.76	24.610				
2,600.0	2,594.7	2,582.6	2,562.7	5.1	6.8	80.72	152.2	260.3	251.6	241.4	10.19	24.678				
2,700.0	2,694.3	2,681.9	2,661.0	5.3	7.1	80.97	159.9	272.4	263.0	252.4	10.63	24.739				
2,800.0	2,794.0	2,781.3	2,759.3	5.6	7.4	81.21	167.5	284.5	274.5	263.4	11.07	24.794				
2,900.0	2,893.7	2,880.6	2,857.6	5.8	7.7	81.42	175.2	296.6	286.0	274.5	11.51	24.844				
3,000.0	2,993.4	2,979.9	2,955.9	6.0	8.0	81.62	182.8	308.7	297.4	285.5	11.95	24.889				
3,100.0	3,093.0	3,079.3	3,054.2	6.2	8.3	81.80	190.5	320.8	308.9	296.5	12.39	24.931				
3,200.0	3,192.7	3,178.6	3,152.5	6.5	8.6	81.97	198.1	332.9	320.4	307.6	12.83	24.969				
3,300.0	3,292.4	3,277.9	3,250.7	6.7	8.9	82.12	205.8	345.0	331.9	318.6	13.27	25.005				
3,400.0	3,392.1	3,377.3	3,349.0	6.9	9.2	82.27	213.5	357.2	343.4	329.7	13.71	25.037				
3,500.0	3,491.7	3,476.6	3,447.3	7.1	9.6	82.41	221.1	369.3	354.9	340.7	14.16	25.068				
3,600.0	3,591.4	3,575.9	3,545.6	7.3	9.9	82.54	228.8	381.4	366.3	351.8	14.60	25.096				
3,700.0	3,691.1	3,675.3	3,643.9	7.6	10.2	82.66	236.4	393.5	377.8	362.8	15.04	25.122				
3,800.0	3,790.8	3,774.6	3,742.2	7.8	10.5	82.77	244.1	405.6	389.3	373.9	15.48	25.146				
3,900.0	3,890.4	3,873.9	3,840.5	8.0	10.8	82.88	251.7	417.7	400.8	384.9	15.93	25.169				
4,000.0	3,990.1	3,973.3	3,938.8	8.2	11.1	82.98	259.4	429.8	412.3	396.0	16.37	25.190				
4,100.0	4,089.8	4,072.6	4,037.1	8.5	11.4	83.08	267.0	441.9	423.8	407.0	16.81	25.210				
4,200.0	4,189.5	4,171.9	4,135.4	8.7	11.7	83.17	274.7	454.0	435.3	418.1	17.25	25.229				
4,300.0	4,289.1	4,271.3	4,233.7	8.9	12.0	83.25	282.3	466.1	446.8	429.1	17.70	25.247				
4,400.0	4,388.8	4,370.6	4,332.0	9.1	12.3	83.34	290.0	478.2	458.3	440.2	18.14	25.264				
4,500.0	4,488.5	4,469.9	4,430.3	9.3	12.6	83.41	297.6	490.3	469.8	451.2	18.59	25.280				
4,600.0	4,588.2	4,569.3	4,528.6	9.6	12.9	83.49	305.3	502.4	481.3	462.3	19.03	25.295				
4,700.0	4,687.8	4,668.6	4,626.9	9.8	13.2	83.56	313.0	514.5	492.8	473.4	19.47	25.309				

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 2D-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 2D-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	90.02	0.0	27.9	27.9					
100.0	100.0	100.0	100.0	0.2	0.2	90.02	0.0	27.9	27.9	27.6	0.30	92.017		
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	27.9	27.9	27.3	0.65	42.810	CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	88.63	0.7	29.5	29.5	28.5	1.00	29.508		
400.0	400.0	397.9	397.8	0.7	0.7	85.25	2.8	34.2	34.3	33.0	1.35	25.463		
500.0	500.0	496.3	495.8	0.8	0.9	81.35	6.4	41.9	42.6	40.9	1.70	25.085	SF	
600.0	600.0	594.0	592.7	1.0	1.2	77.91	11.3	52.5	54.2	52.2	2.04	26.554		
700.0	700.0	690.7	688.4	1.2	1.5	75.20	17.5	66.1	69.3	66.9	2.38	29.072		
800.0	800.0	787.7	783.6	1.4	1.8	73.18	24.9	82.3	87.5	84.8	2.73	32.092		
900.0	900.0	886.0	880.2	1.5	2.2	67.53	32.6	99.2	105.6	102.5	3.08	34.241		
1,000.0	999.8	984.5	977.0	1.7	2.5	68.39	40.4	116.1	122.4	119.0	3.45	35.525		
1,100.0	1,099.5	1,083.2	1,073.8	1.9	2.9	70.24	48.1	133.0	138.3	134.5	3.82	36.169		
1,200.0	1,199.2	1,181.8	1,170.6	2.1	3.2	71.83	55.9	150.0	154.4	150.1	4.22	36.614		
1,300.0	1,298.9	1,280.4	1,267.5	2.3	3.6	73.13	63.7	166.9	170.5	165.9	4.62	36.934		
1,400.0	1,398.6	1,379.1	1,364.3	2.5	4.0	74.20	71.4	183.9	186.7	181.6	5.02	37.166		
1,500.0	1,498.2	1,477.7	1,461.2	2.7	4.3	75.10	79.2	200.8	202.9	197.5	5.43	37.335		
1,600.0	1,597.9	1,576.3	1,558.0	3.0	4.7	75.86	86.9	217.8	219.2	213.3	5.85	37.460		
1,700.0	1,697.6	1,674.9	1,654.9	3.2	5.1	76.53	94.7	234.7	235.5	229.2	6.27	37.551		
1,800.0	1,797.3	1,773.6	1,751.7	3.4	5.5	77.10	102.5	251.6	251.8	245.1	6.69	37.618		
1,900.0	1,896.9	1,872.2	1,848.6	3.6	5.8	77.61	110.2	268.6	268.2	261.1	7.12	37.668		
2,000.0	1,996.6	1,970.8	1,945.4	3.8	6.2	78.05	118.0	285.5	284.6	277.0	7.55	37.704		
2,100.0	2,096.3	2,069.4	2,042.3	4.0	6.6	78.45	125.8	302.5	301.0	293.0	7.98	37.729		
2,200.0	2,196.0	2,168.1	2,139.1	4.3	6.9	78.81	133.5	319.4	317.4	308.9	8.41	37.747		
2,300.0	2,295.6	2,266.7	2,236.0	4.5	7.3	79.13	141.3	336.4	333.8	324.9	8.84	37.759		
2,400.0	2,395.3	2,365.3	2,332.8	4.7	7.7	79.42	149.0	353.3	350.2	340.9	9.27	37.767		
2,500.0	2,495.0	2,463.9	2,429.7	4.9	8.0	79.69	156.8	370.3	366.6	356.9	9.71	37.771		
2,600.0	2,594.7	2,562.6	2,526.5	5.1	8.4	79.93	164.6	387.2	383.1	372.9	10.14	37.772		
2,700.0	2,694.3	2,661.2	2,623.4	5.3	8.8	80.15	172.3	404.1	399.5	388.9	10.58	37.771		
2,800.0	2,794.0	2,759.8	2,720.2	5.6	9.2	80.36	180.1	421.1	416.0	405.0	11.01	37.768		
2,900.0	2,893.7	2,858.5	2,817.1	5.8	9.5	80.55	187.9	438.0	432.4	421.0	11.45	37.764		
3,000.0	2,993.4	2,957.1	2,913.9	6.0	9.9	80.72	195.6	455.0	448.9	437.0	11.89	37.759		
3,100.0	3,093.0	3,055.7	3,010.8	6.2	10.3	80.89	203.4	471.9	465.4	453.0	12.33	37.754		
3,200.0	3,192.7	3,154.3	3,107.6	6.5	10.6	81.04	211.1	488.9	481.8	469.1	12.76	37.748		
3,300.0	3,292.4	3,253.0	3,204.5	6.7	11.0	81.18	218.9	505.8	498.3	485.1	13.20	37.741		

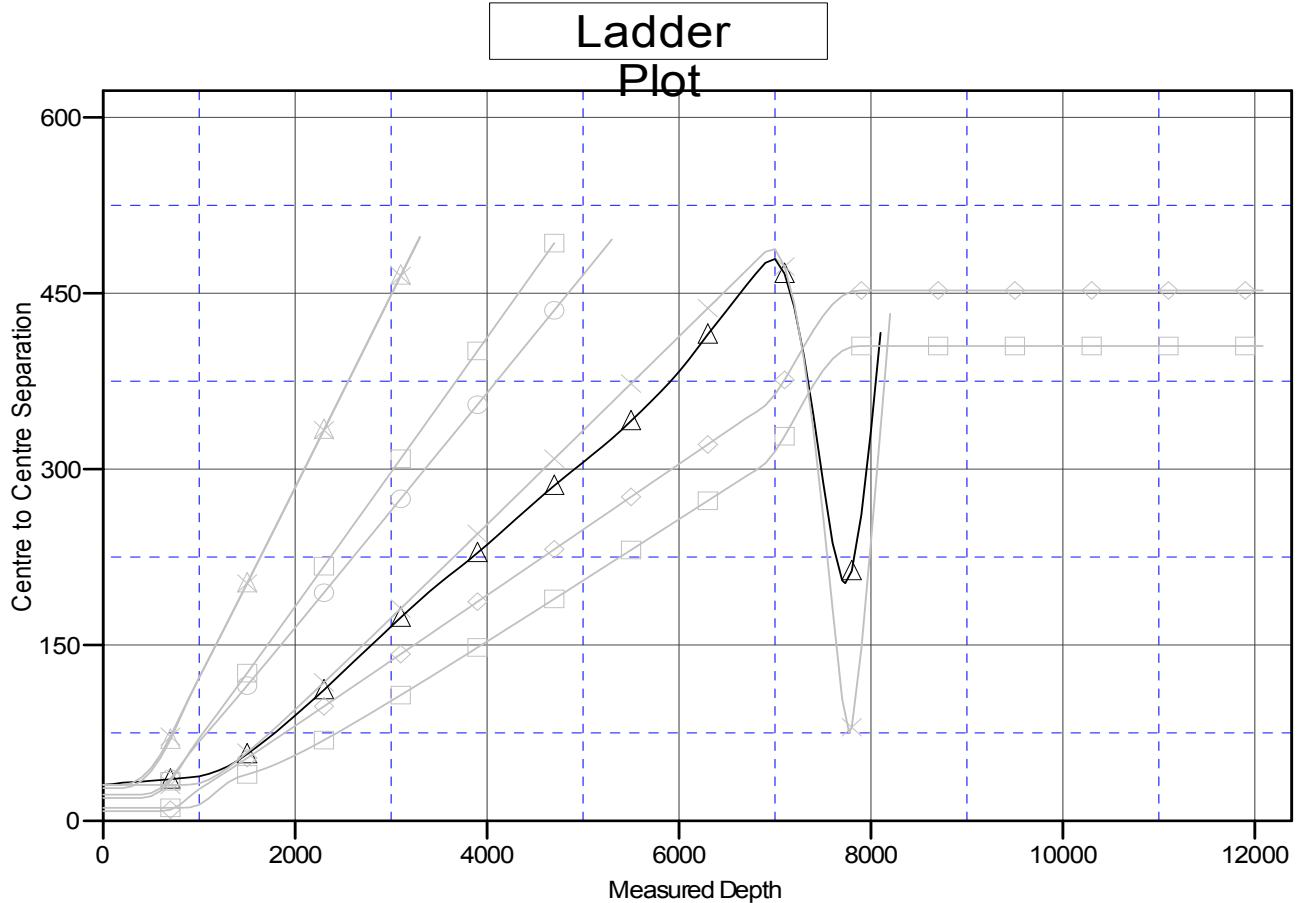
Cathedral Energy Services

Anticollision Report

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



LEGEND

▲ 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 2C-2H, HZ, Plan #1 V0	△ lone 2G-2H, HZ, Plan #1 V0
✕ lone 2A-2H, HZ, Plan #1 V0	◆ lone 2E-2H, HZ, Plan #1 V0	