

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan)			
Site Position:		Northing:	1,275,832.11 ft	Latitude:	40.086970
From:	Lat/Long	Easting:	3,254,152.25 ft	Longitude:	-104.591660
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.59 °

Well	Flanigan 1C-6H					
Well Position	+N/-S	0.0 ft	Northing:	1,275,873.57 ft	Latitude:	40.087060
	+E/-W	0.0 ft	Easting:	3,254,999.66 ft	Longitude:	-104.588630
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,016.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/24/2012	8.63	66.80	52,894

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	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,435.7	13.07	316.50	5,431.9	35.9	-34.1	3.00	3.00	0.00	316.50	
6,374.5	13.07	316.50	6,346.4	189.9	-180.2	0.00	0.00	0.00	0.00	
7,368.9	90.00	180.00	7,005.0	-375.3	-285.4	10.00	7.74	-13.73	-135.75	
11,568.9	90.00	180.00	7,005.0	-4,575.3	-285.4	0.00	0.00	0.00	0.00	Flanigan 1C-6H PBHL

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Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1C-6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	
4,436.0	0.00	0.00	4,436.0	0.0	0.0	0.0	0.00	0.00	Sussex
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	
4,685.0	0.00	0.00	4,685.0	0.0	0.0	0.0	0.00	0.00	Sussex Marker
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	

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Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1C-6H	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
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 5000'
5,009.0	0.27	316.50	5,009.0	0.0	0.0	0.0	3.00	3.00	Shannon
5,100.0	3.00	316.50	5,100.0	1.9	-1.8	-1.9	3.00	3.00	
5,200.0	6.00	316.50	5,199.6	7.6	-7.2	-7.6	3.00	3.00	
5,300.0	9.00	316.50	5,298.8	17.1	-16.2	-17.1	3.00	3.00	
5,400.0	12.00	316.50	5,397.1	30.3	-28.7	-30.3	3.00	3.00	
5,435.7	13.07	316.50	5,431.9	35.9	-34.1	-35.9	3.00	3.00	EOB; Inc=13.07°
5,500.0	13.07	316.50	5,494.6	46.4	-44.1	-46.4	0.00	0.00	
5,600.0	13.07	316.50	5,592.0	62.8	-59.6	-62.8	0.00	0.00	
5,700.0	13.07	316.50	5,689.4	79.2	-75.2	-79.2	0.00	0.00	
5,800.0	13.07	316.50	5,786.8	95.6	-90.8	-95.6	0.00	0.00	
5,900.0	13.07	316.50	5,884.2	112.1	-106.3	-112.1	0.00	0.00	
6,000.0	13.07	316.50	5,981.6	128.5	-121.9	-128.5	0.00	0.00	
6,100.0	13.07	316.50	6,079.0	144.9	-137.5	-144.9	0.00	0.00	
6,187.2	13.07	316.50	6,164.0	159.2	-151.1	-159.2	0.00	0.00	Teepee Buttes
6,200.0	13.07	316.50	6,176.4	161.3	-153.0	-161.3	0.00	0.00	
6,300.0	13.07	316.50	6,273.8	177.7	-168.6	-177.7	0.00	0.00	
6,374.5	13.07	316.50	6,346.4	189.9	-180.2	-189.9	0.00	0.00	Start 10° build @ 6374' MD
6,400.0	11.38	307.45	6,371.3	193.5	-184.2	-193.5	10.00	-6.62	
6,500.0	9.59	251.01	6,469.9	196.8	-199.9	-196.8	10.00	-1.79	
6,600.0	15.90	214.12	6,567.5	182.7	-215.5	-182.7	10.00	6.31	
6,700.0	24.74	200.29	6,661.3	151.7	-230.5	-151.7	10.00	8.84	
6,800.0	34.19	193.60	6,748.3	104.6	-244.4	-104.6	10.00	9.46	
6,900.0	43.87	189.57	6,825.9	43.0	-256.8	-43.0	10.00	9.68	
7,000.0	53.65	186.75	6,891.7	-31.4	-267.3	31.4	10.00	9.78	
7,056.6	59.20	185.47	6,923.0	-78.2	-272.3	78.2	10.00	9.82	Sharon Springs
7,100.0	63.47	184.58	6,943.8	-116.2	-275.7	116.2	10.00	9.84	
7,107.2	64.18	184.43	6,947.0	-122.6	-276.2	122.6	10.00	9.84	Niobrara
7,200.0	73.33	182.74	6,980.6	-208.8	-281.5	208.8	10.00	9.86	
7,216.1	74.92	182.47	6,985.0	-224.3	-282.2	224.3	10.00	9.86	B Chalk
7,300.0	83.20	181.09	7,000.9	-306.6	-284.8	306.6	10.00	9.87	
7,368.9	90.00	180.00	7,005.0	-375.3	-285.4	375.3	10.00	9.87	Landing Pt @ 7368' MD; 90° - ICP
7,400.0	90.00	180.00	7,005.0	-406.4	-285.4	406.4	0.00	0.00	
7,500.0	90.00	180.00	7,005.0	-506.4	-285.4	506.4	0.00	0.00	
7,600.0	90.00	180.00	7,005.0	-606.4	-285.4	606.4	0.00	0.00	
7,700.0	90.00	180.00	7,005.0	-706.4	-285.4	706.4	0.00	0.00	
7,800.0	90.00	180.00	7,005.0	-806.4	-285.4	806.4	0.00	0.00	
7,900.0	90.00	180.00	7,005.0	-906.4	-285.4	906.4	0.00	0.00	
8,000.0	90.00	180.00	7,005.0	-1,006.4	-285.4	1,006.4	0.00	0.00	
8,100.0	90.00	180.00	7,005.0	-1,106.4	-285.4	1,106.4	0.00	0.00	
8,200.0	90.00	180.00	7,005.0	-1,206.4	-285.4	1,206.4	0.00	0.00	
8,300.0	90.00	180.00	7,005.0	-1,306.4	-285.4	1,306.4	0.00	0.00	
8,400.0	90.00	180.00	7,005.0	-1,406.4	-285.4	1,406.4	0.00	0.00	
8,500.0	90.00	180.00	7,005.0	-1,506.4	-285.4	1,506.4	0.00	0.00	
8,600.0	90.00	180.00	7,005.0	-1,606.4	-285.4	1,606.4	0.00	0.00	
8,700.0	90.00	180.00	7,005.0	-1,706.4	-285.4	1,706.4	0.00	0.00	
8,800.0	90.00	180.00	7,005.0	-1,806.4	-285.4	1,806.4	0.00	0.00	
8,900.0	90.00	180.00	7,005.0	-1,906.4	-285.4	1,906.4	0.00	0.00	
9,000.0	90.00	180.00	7,005.0	-2,006.4	-285.4	2,006.4	0.00	0.00	
9,100.0	90.00	180.00	7,005.0	-2,106.4	-285.4	2,106.4	0.00	0.00	
9,200.0	90.00	180.00	7,005.0	-2,206.4	-285.4	2,206.4	0.00	0.00	
9,300.0	90.00	180.00	7,005.0	-2,306.4	-285.4	2,306.4	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1C-6H	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	7,005.0	-2,406.4	-285.4	2,406.4	0.00	0.00	
9,500.0	90.00	180.00	7,005.0	-2,506.4	-285.4	2,506.4	0.00	0.00	
9,600.0	90.00	180.00	7,005.0	-2,606.4	-285.4	2,606.4	0.00	0.00	
9,700.0	90.00	180.00	7,005.0	-2,706.4	-285.4	2,706.4	0.00	0.00	
9,800.0	90.00	180.00	7,005.0	-2,806.4	-285.4	2,806.4	0.00	0.00	
9,900.0	90.00	180.00	7,005.0	-2,906.4	-285.4	2,906.4	0.00	0.00	
10,000.0	90.00	180.00	7,005.0	-3,006.4	-285.4	3,006.4	0.00	0.00	
10,100.0	90.00	180.00	7,005.0	-3,106.4	-285.4	3,106.4	0.00	0.00	
10,200.0	90.00	180.00	7,005.0	-3,206.4	-285.4	3,206.4	0.00	0.00	
10,300.0	90.00	180.00	7,005.0	-3,306.4	-285.4	3,306.4	0.00	0.00	
10,400.0	90.00	180.00	7,005.0	-3,406.4	-285.4	3,406.4	0.00	0.00	
10,500.0	90.00	180.00	7,005.0	-3,506.4	-285.4	3,506.4	0.00	0.00	
10,600.0	90.00	180.00	7,005.0	-3,606.4	-285.4	3,606.4	0.00	0.00	
10,700.0	90.00	180.00	7,005.0	-3,706.4	-285.4	3,706.4	0.00	0.00	
10,800.0	90.00	180.00	7,005.0	-3,806.4	-285.4	3,806.4	0.00	0.00	
10,900.0	90.00	180.00	7,005.0	-3,906.4	-285.4	3,906.4	0.00	0.00	
11,000.0	90.00	180.00	7,005.0	-4,006.4	-285.4	4,006.4	0.00	0.00	
11,100.0	90.00	180.00	7,005.0	-4,106.4	-285.4	4,106.4	0.00	0.00	
11,200.0	90.00	180.00	7,005.0	-4,206.4	-285.4	4,206.4	0.00	0.00	
11,300.0	90.00	180.00	7,005.0	-4,306.4	-285.4	4,306.4	0.00	0.00	
11,400.0	90.00	180.00	7,005.0	-4,406.4	-285.4	4,406.4	0.00	0.00	
11,500.0	90.00	180.00	7,005.0	-4,506.4	-285.4	4,506.4	0.00	0.00	
11,568.9	90.00	180.00	7,005.0	-4,575.3	-285.4	4,575.3	0.00	0.00	TD at 11568.9 - Flanigan 1C-6H PBHL

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									
Flanigan 1C-6H PBHL	0.00	0.00	7,005.0	-4,575.3	-285.4	1,271,295.57	3,254,761.25	40.074500	-104.589650
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
7,368.9	7,005.0	ICP	0.000	0.000	

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Project:	DJ Wattenberg	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1C-6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,436.0	4,436.0	Sussex				
4,685.0	4,685.0	Sussex Marker				
5,009.0	5,009.0	Shannon				
6,187.2	6,164.0	Teepee Buttes				
7,056.6	6,923.0	Sharon Springs				
7,107.2	6,947.0	Niobrara				
7,216.1	6,985.0	B Chalk				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
5,000.0	5,000.0	0.0	0.0	KOP @ 5000'	
5,435.7	5,431.9	35.9	-34.1	EOB; Inc=13.07°	
6,374.5	6,346.4	189.9	-180.2	Start 10° build @ 6374' MD	
7,368.9	7,005.0	-375.3	-285.4	Landing Pt @ 7368' MD; 90°	
11,568.9	7,005.0	-4,575.3	-285.4	TD at 11568.9	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNE S6-T1N-R64W (Flanigan)

Flanigan 1C-6H

Hz

Plan #1

Anticollision Report

25 April, 2012

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 1,000.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program	Date	4/25/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,568.9	Plan #1 (Hz)	MWD	Geolink MWD

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
NWNE S6-T1N-R64W (Flanigan)						
Flanigan #1 (Existing) - Existing - Existing	7,763.3	6,985.0	479.1	447.6	15.201	CC, ES
Flanigan #1 (Existing) - Existing - Existing	7,900.0	6,985.0	498.2	464.8	14.902	SF
Flanigan 1A-6H - Hz - Plan #1	3,000.0	2,981.0	876.4	866.0	84.320	CC, ES
Flanigan 1A-6H - Hz - Plan #1	3,900.0	3,677.3	998.1	984.9	75.349	SF
Flanigan 1B-6H - Hz - Plan #1	7,327.3	7,261.5	699.2	671.2	24.943	CC
Flanigan 1B-6H - Hz - Plan #1	11,568.9	11,510.8	699.6	534.8	4.244	ES, SF
Flanigan 1D-6H - Hz - Plan #1	3,000.0	3,000.0	25.4	15.0	2.440	CC, ES, SF
Flanigan 2A-6H - Hz - Plan #1						Out of range
Flanigan 2B-6H - Hz - Plan #1						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan #1 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	165.88	-769.7	193.6	793.9						
100.0	100.0	80.0	80.0	0.2	0.1	165.88	-769.7	193.6	793.7	793.4	0.29	2,722.686			
200.0	200.0	180.0	180.0	0.3	0.3	165.88	-769.7	193.6	793.7	793.1	0.64	1,239.104			
300.0	300.0	280.0	280.0	0.5	0.5	165.88	-769.7	193.6	793.7	792.7	0.99	802.030			
400.0	400.0	380.0	380.0	0.7	0.7	165.88	-769.7	193.6	793.7	792.4	1.34	592.896			
500.0	500.0	480.0	480.0	0.8	0.8	165.88	-769.7	193.6	793.7	792.0	1.69	470.270			
600.0	600.0	580.0	580.0	1.0	1.0	165.88	-769.7	193.6	793.7	791.7	2.04	389.675			
700.0	700.0	680.0	680.0	1.2	1.2	165.88	-769.7	193.6	793.7	791.3	2.39	332.664			
800.0	800.0	780.0	780.0	1.4	1.4	165.88	-769.7	193.6	793.7	791.0	2.73	290.205			
900.0	900.0	880.0	880.0	1.5	1.5	165.88	-769.7	193.6	793.7	790.6	3.08	257.358			
1,000.0	1,000.0	980.0	980.0	1.7	1.7	165.88	-769.7	193.6	793.7	790.3	3.43	231.190			
1,100.0	1,100.0	1,080.0	1,080.0	1.9	1.9	165.88	-769.7	193.6	793.7	789.9	3.78	209.853			
1,200.0	1,200.0	1,180.0	1,180.0	2.1	2.1	165.88	-769.7	193.6	793.7	789.6	4.13	192.121			
1,300.0	1,300.0	1,280.0	1,280.0	2.2	2.2	165.88	-769.7	193.6	793.7	789.2	4.48	177.153			
1,400.0	1,400.0	1,380.0	1,380.0	2.4	2.4	165.88	-769.7	193.6	793.7	788.9	4.83	164.348			
1,500.0	1,500.0	1,480.0	1,480.0	2.6	2.6	165.88	-769.7	193.6	793.7	788.5	5.18	153.270			
1,600.0	1,600.0	1,580.0	1,580.0	2.8	2.8	165.88	-769.7	193.6	793.7	788.2	5.53	143.591			
1,700.0	1,700.0	1,680.0	1,680.0	2.9	2.9	165.88	-769.7	193.6	793.7	787.8	5.88	135.061			
1,800.0	1,800.0	1,780.0	1,780.0	3.1	3.1	165.88	-769.7	193.6	793.7	787.5	6.23	127.488			
1,900.0	1,900.0	1,880.0	1,880.0	3.3	3.3	165.88	-769.7	193.6	793.7	787.1	6.57	120.720			
2,000.0	2,000.0	1,980.0	1,980.0	3.5	3.5	165.88	-769.7	193.6	793.7	786.8	6.92	114.634			
2,100.0	2,100.0	2,080.0	2,080.0	3.6	3.6	165.88	-769.7	193.6	793.7	786.4	7.27	109.132			
2,200.0	2,200.0	2,180.0	2,180.0	3.8	3.8	165.88	-769.7	193.6	793.7	786.1	7.62	104.134			
2,300.0	2,300.0	2,280.0	2,280.0	4.0	4.0	165.88	-769.7	193.6	793.7	785.7	7.97	99.573			
2,400.0	2,400.0	2,380.0	2,380.0	4.2	4.2	165.88	-769.7	193.6	793.7	785.4	8.32	95.396			
2,500.0	2,500.0	2,480.0	2,480.0	4.3	4.3	165.88	-769.7	193.6	793.7	785.0	8.67	91.555			
2,600.0	2,600.0	2,580.0	2,580.0	4.5	4.5	165.88	-769.7	193.6	793.7	784.7	9.02	88.011			
2,700.0	2,700.0	2,680.0	2,680.0	4.7	4.7	165.88	-769.7	193.6	793.7	784.3	9.37	84.731			
2,800.0	2,800.0	2,780.0	2,780.0	4.9	4.9	165.88	-769.7	193.6	793.7	784.0	9.72	81.687			
2,900.0	2,900.0	2,880.0	2,880.0	5.0	5.0	165.88	-769.7	193.6	793.7	783.6	10.07	78.854			
3,000.0	3,000.0	2,980.0	2,980.0	5.2	5.2	165.88	-769.7	193.6	793.7	783.3	10.41	76.211			
3,100.0	3,100.0	3,080.0	3,080.0	5.4	5.4	165.88	-769.7	193.6	793.7	782.9	10.76	73.739			
3,200.0	3,200.0	3,180.0	3,180.0	5.6	5.6	165.88	-769.7	193.6	793.7	782.6	11.11	71.423			
3,300.0	3,300.0	3,280.0	3,280.0	5.7	5.7	165.88	-769.7	193.6	793.7	782.2	11.46	69.248			
3,400.0	3,400.0	3,380.0	3,380.0	5.9	5.9	165.88	-769.7	193.6	793.7	781.9	11.81	67.201			
3,500.0	3,500.0	3,480.0	3,480.0	6.1	6.1	165.88	-769.7	193.6	793.7	781.5	12.16	65.272			
3,600.0	3,600.0	3,580.0	3,580.0	6.3	6.2	165.88	-769.7	193.6	793.7	781.2	12.51	63.451			
3,700.0	3,700.0	3,680.0	3,680.0	6.4	6.4	165.88	-769.7	193.6	793.7	780.8	12.86	61.728			
3,800.0	3,800.0	3,780.0	3,780.0	6.6	6.6	165.88	-769.7	193.6	793.7	780.5	13.21	60.097			
3,900.0	3,900.0	3,880.0	3,880.0	6.8	6.8	165.88	-769.7	193.6	793.7	780.1	13.56	58.549			
4,000.0	4,000.0	3,980.0	3,980.0	7.0	6.9	165.88	-769.7	193.6	793.7	779.8	13.91	57.079			
4,100.0	4,100.0	4,080.0	4,080.0	7.1	7.1	165.88	-769.7	193.6	793.7	779.4	14.25	55.682			
4,200.0	4,200.0	4,180.0	4,180.0	7.3	7.3	165.88	-769.7	193.6	793.7	779.1	14.60	54.351			
4,300.0	4,300.0	4,280.0	4,280.0	7.5	7.5	165.88	-769.7	193.6	793.7	778.7	14.95	53.082			
4,400.0	4,400.0	4,380.0	4,380.0	7.7	7.6	165.88	-769.7	193.6	793.7	778.4	15.30	51.871			
4,500.0	4,500.0	4,480.0	4,480.0	7.8	7.8	165.88	-769.7	193.6	793.7	778.0	15.65	50.714			
4,600.0	4,600.0	4,580.0	4,580.0	8.0	8.0	165.88	-769.7	193.6	793.7	777.7	16.00	49.607			
4,700.0	4,700.0	4,680.0	4,680.0	8.2	8.2	165.88	-769.7	193.6	793.7	777.3	16.35	48.548			
4,800.0	4,800.0	4,780.0	4,780.0	8.4	8.3	165.88	-769.7	193.6	793.7	777.0	16.70	47.533			
4,900.0	4,900.0	4,880.0	4,880.0	8.5	8.5	165.88	-769.7	193.6	793.7	776.6	17.05	46.560			
5,000.0	5,000.0	4,980.0	4,980.0	8.7	8.7	165.88	-769.7	193.6	793.7	776.3	17.40	45.626			
5,100.0	5,100.0	5,080.0	5,080.0	8.9	8.9	-150.68	-769.7	193.6	796.0	778.2	17.73	44.888			

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan #1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		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	5,199.6	5,179.6	5,179.6	9.1	9.0	-150.85	-769.7	193.6	802.8	784.8	18.04	44.492		
5,300.0	5,298.8	5,278.8	5,278.8	9.2	9.2	-151.13	-769.7	193.6	814.3	795.9	18.33	44.421		
5,400.0	5,397.1	5,377.1	5,377.1	9.4	9.4	-151.50	-769.7	193.6	830.3	811.7	18.59	44.659		
5,500.0	5,494.6	5,474.6	5,474.6	9.7	9.6	-152.12	-769.7	193.6	850.1	831.2	18.91	44.965		
5,600.0	5,592.0	5,572.0	5,572.0	9.9	9.7	-152.81	-769.7	193.6	870.2	851.0	19.26	45.187		
5,700.0	5,689.4	5,669.4	5,669.4	10.1	9.9	-153.47	-769.7	193.6	890.5	870.9	19.61	45.403		
5,800.0	5,786.8	5,766.8	5,766.8	10.4	10.1	-154.11	-769.7	193.6	910.9	890.9	19.97	45.614		
5,900.0	5,884.2	5,864.2	5,864.2	10.7	10.2	-154.71	-769.7	193.6	931.4	911.1	20.33	45.820		
6,000.0	5,981.6	5,961.6	5,961.6	11.0	10.4	-155.29	-769.7	193.6	952.0	931.3	20.69	46.022		
6,100.0	6,079.0	6,059.0	6,059.0	11.3	10.6	-155.84	-769.7	193.6	972.7	951.6	21.04	46.220		
6,200.0	6,176.4	6,156.4	6,156.4	11.6	10.7	-156.38	-769.7	193.6	993.4	972.0	21.40	46.414		
6,800.0	6,748.3	6,728.3	6,728.3	12.8	11.7	-45.63	-769.7	193.6	977.9	955.5	22.47	43.525		
6,900.0	6,825.9	6,805.9	6,805.9	12.9	11.9	-47.88	-769.7	193.6	929.2	906.9	22.26	41.733		
7,000.0	6,891.7	6,871.7	6,871.7	13.1	12.0	-53.53	-769.7	193.6	870.4	847.9	22.50	38.689		
7,100.0	6,943.8	6,923.8	6,923.8	13.5	12.1	-62.19	-769.7	193.6	804.6	781.2	23.39	34.396		
7,200.0	6,980.6	6,960.6	6,960.6	14.1	12.1	-72.91	-769.7	193.6	735.1	710.3	24.75	29.700		
7,300.0	7,000.9	6,980.9	6,980.9	14.8	12.2	-83.70	-769.7	193.6	665.9	639.8	26.05	25.560		
7,400.0	7,005.0	6,985.0	6,985.0	15.7	12.2	-90.00	-769.7	193.6	601.3	574.2	27.08	22.203		
7,500.0	7,005.0	6,985.0	6,985.0	16.8	12.2	-90.00	-769.7	193.6	546.7	518.5	28.17	19.407		
7,600.0	7,005.0	6,985.0	6,985.0	17.9	12.2	-90.00	-769.7	193.6	506.1	476.8	29.37	17.235		
7,700.0	7,005.0	6,985.0	6,985.0	19.1	12.2	-90.00	-769.7	193.6	483.2	452.6	30.65	15.764		
7,763.3	7,005.0	6,985.0	6,985.0	20.0	12.2	-90.00	-769.7	193.6	479.1	447.6	31.51	15.201 CC, ES		
7,800.0	7,005.0	6,985.0	6,985.0	20.5	12.2	-90.00	-769.7	193.6	480.5	448.5	32.01	15.008		
7,900.0	7,005.0	6,985.0	6,985.0	21.8	12.2	-90.00	-769.7	193.6	498.2	464.8	33.43	14.902 SF		
8,000.0	7,005.0	6,985.0	6,985.0	23.3	12.2	-90.00	-769.7	193.6	534.3	499.5	34.90	15.313		
8,100.0	7,005.0	6,985.0	6,985.0	24.7	12.2	-90.00	-769.7	193.6	585.5	549.2	36.40	16.087		
8,200.0	7,005.0	6,985.0	6,985.0	26.2	12.2	-90.00	-769.7	193.6	648.2	610.3	37.93	17.089		
8,300.0	7,005.0	6,985.0	6,985.0	27.8	12.2	-90.00	-769.7	193.6	719.4	679.9	39.49	18.216		
8,400.0	7,005.0	6,985.0	6,985.0	29.3	12.2	-90.00	-769.7	193.6	796.8	755.7	41.08	19.398		
8,500.0	7,005.0	6,985.0	6,985.0	30.9	12.2	-90.00	-769.7	193.6	878.8	836.1	42.68	20.590		
8,600.0	7,005.0	6,985.0	6,985.0	32.5	12.2	-90.00	-769.7	193.6	964.1	919.8	44.30	21.765		

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan 1A-6H - 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	-92.14	-32.8	-875.8	876.6						
100.0	100.0	81.0	81.0	0.2	0.1	-92.14	-32.8	-875.8	876.4	876.1	0.27	3,188.711			
200.0	200.0	181.0	181.0	0.3	0.3	-92.14	-32.8	-875.8	876.4	875.8	0.62	1,414.441			
300.0	300.0	281.0	281.0	0.5	0.5	-92.14	-32.8	-875.8	876.4	875.4	0.97	904.733			
400.0	400.0	381.0	381.0	0.7	0.6	-92.14	-32.8	-875.8	876.4	875.1	1.32	665.069			
500.0	500.0	481.0	481.0	0.8	0.8	-92.14	-32.8	-875.8	876.4	874.7	1.67	525.787			
600.0	600.0	581.0	581.0	1.0	1.0	-92.14	-32.8	-875.8	876.4	874.4	2.02	434.742			
700.0	700.0	681.0	681.0	1.2	1.2	-92.14	-32.8	-875.8	876.4	874.0	2.36	370.573			
800.0	800.0	781.0	781.0	1.4	1.3	-92.14	-32.8	-875.8	876.4	873.7	2.71	322.911			
900.0	900.0	881.0	881.0	1.5	1.5	-92.14	-32.8	-875.8	876.4	873.3	3.06	286.112			
1,000.0	1,000.0	981.0	981.0	1.7	1.7	-92.14	-32.8	-875.8	876.4	873.0	3.41	256.842			
1,100.0	1,100.0	1,081.0	1,081.0	1.9	1.9	-92.14	-32.8	-875.8	876.4	872.6	3.76	233.006			
1,200.0	1,200.0	1,181.0	1,181.0	2.1	2.0	-92.14	-32.8	-875.8	876.4	872.3	4.11	213.217			
1,300.0	1,300.0	1,281.0	1,281.0	2.2	2.2	-92.14	-32.8	-875.8	876.4	871.9	4.46	196.527			
1,400.0	1,400.0	1,381.0	1,381.0	2.4	2.4	-92.14	-32.8	-875.8	876.4	871.6	4.81	182.260			
1,500.0	1,500.0	1,481.0	1,481.0	2.6	2.6	-92.14	-32.8	-875.8	876.4	871.2	5.16	169.924			
1,600.0	1,600.0	1,581.0	1,581.0	2.8	2.7	-92.14	-32.8	-875.8	876.4	870.9	5.51	159.153			
1,700.0	1,700.0	1,681.0	1,681.0	2.9	2.9	-92.14	-32.8	-875.8	876.4	870.5	5.86	149.665			
1,800.0	1,800.0	1,781.0	1,781.0	3.1	3.1	-92.14	-32.8	-875.8	876.4	870.2	6.20	141.245			
1,900.0	1,900.0	1,881.0	1,881.0	3.3	3.3	-92.14	-32.8	-875.8	876.4	869.8	6.55	133.722			
2,000.0	2,000.0	1,981.0	1,981.0	3.5	3.4	-92.14	-32.8	-875.8	876.4	869.5	6.90	126.960			
2,100.0	2,100.0	2,081.0	2,081.0	3.6	3.6	-92.14	-32.8	-875.8	876.4	869.1	7.25	120.849			
2,200.0	2,200.0	2,181.0	2,181.0	3.8	3.8	-92.14	-32.8	-875.8	876.4	868.8	7.60	115.299			
2,300.0	2,300.0	2,281.0	2,281.0	4.0	4.0	-92.14	-32.8	-875.8	876.4	868.4	7.95	110.236			
2,400.0	2,400.0	2,381.0	2,381.0	4.2	4.1	-92.14	-32.8	-875.8	876.4	868.1	8.30	105.600			
2,500.0	2,500.0	2,481.0	2,481.0	4.3	4.3	-92.14	-32.8	-875.8	876.4	867.7	8.65	101.337			
2,600.0	2,600.0	2,581.0	2,581.0	4.5	4.5	-92.14	-32.8	-875.8	876.4	867.4	9.00	97.406			
2,700.0	2,700.0	2,681.0	2,681.0	4.7	4.7	-92.14	-32.8	-875.8	876.4	867.0	9.35	93.768			
2,800.0	2,800.0	2,781.0	2,781.0	4.9	4.8	-92.14	-32.8	-875.8	876.4	866.7	9.70	90.392			
2,900.0	2,900.0	2,881.0	2,881.0	5.0	5.0	-92.14	-32.8	-875.8	876.4	866.3	10.04	87.251			
3,000.0	3,000.0	2,981.0	2,981.0	5.2	5.2	-92.14	-32.8	-875.8	876.4	866.0	10.39	84.320 CC, ES			
3,100.0	3,100.0	3,056.4	3,056.4	5.4	5.3	-92.13	-32.5	-876.6	877.5	866.8	10.70	82.013			
3,200.0	3,200.0	3,125.8	3,125.7	5.6	5.4	-92.06	-31.6	-879.7	882.1	871.1	11.00	80.217			
3,300.0	3,300.0	3,200.0	3,199.6	5.7	5.6	-91.93	-29.9	-885.8	890.1	878.8	11.30	78.762			
3,400.0	3,400.0	3,263.6	3,262.7	5.9	5.7	-91.78	-27.8	-893.2	901.5	889.9	11.59	77.787			
3,500.0	3,500.0	3,331.5	3,329.8	6.1	5.8	-91.58	-24.9	-903.4	916.3	904.4	11.89	77.086			
3,600.0	3,600.0	3,400.0	3,397.1	6.3	6.0	-91.33	-21.3	-915.9	934.4	922.2	12.19	76.681			
3,700.0	3,700.0	3,482.3	3,477.4	6.4	6.2	-91.01	-16.4	-933.3	955.4	942.9	12.52	76.334			
3,800.0	3,800.0	3,579.8	3,572.4	6.6	6.4	-90.63	-10.5	-954.2	976.7	963.9	12.88	75.839			
3,900.0	3,900.0	3,677.3	3,667.5	6.8	6.7	-90.27	-4.5	-975.0	998.1	984.9	13.25	75.349 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan 1B-6H - 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	-92.21	-32.8	-847.8	848.4					
100.0	100.0	100.0	100.0	0.2	0.2	-92.21	-32.8	-847.8	848.4	848.1	0.30	2,793.717		
200.0	200.0	200.0	200.0	0.3	0.3	-92.21	-32.8	-847.8	848.4	847.8	0.65	1,299.751		
300.0	300.0	300.0	300.0	0.5	0.5	-92.21	-32.8	-847.8	848.4	847.4	1.00	846.876		
400.0	400.0	400.0	400.0	0.7	0.7	-92.21	-32.8	-847.8	848.4	847.1	1.35	628.045		
500.0	500.0	500.0	500.0	0.8	0.8	-92.21	-32.8	-847.8	848.4	846.7	1.70	499.083		
600.0	600.0	600.0	600.0	1.0	1.0	-92.21	-32.8	-847.8	848.4	846.4	2.05	414.061		
700.0	700.0	700.0	700.0	1.2	1.2	-92.21	-32.8	-847.8	848.4	846.0	2.40	353.790		
800.0	800.0	800.0	800.0	1.4	1.4	-92.21	-32.8	-847.8	848.4	845.7	2.75	308.836		
900.0	900.0	900.0	900.0	1.5	1.5	-92.21	-32.8	-847.8	848.4	845.3	3.10	274.018		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	-92.21	-32.8	-847.8	848.4	845.0	3.45	246.255		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	-92.21	-32.8	-847.8	848.4	844.6	3.79	223.600		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	-92.21	-32.8	-847.8	848.4	844.3	4.14	204.763		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	-92.21	-32.8	-847.8	848.4	843.9	4.49	188.853		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	-92.21	-32.8	-847.8	848.4	843.6	4.84	175.237		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	-92.21	-32.8	-847.8	848.4	843.2	5.19	163.452		
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	-92.21	-32.8	-847.8	848.4	842.9	5.54	153.153		
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	-92.21	-32.8	-847.8	848.4	842.5	5.89	144.074		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	-92.21	-32.8	-847.8	848.4	842.2	6.24	136.012		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	-92.21	-32.8	-847.8	848.4	841.8	6.59	128.804		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	-92.21	-32.8	-847.8	848.4	841.5	6.94	122.322		
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	-92.21	-32.8	-847.8	848.4	841.1	7.29	116.461		
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	-92.21	-32.8	-847.8	848.4	840.8	7.63	111.136		
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	-92.21	-32.8	-847.8	848.4	840.4	7.98	106.276		
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	-92.21	-32.8	-847.8	848.4	840.1	8.33	101.824		
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	-92.21	-32.8	-847.8	848.4	839.7	8.68	97.730		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	-92.21	-32.8	-847.8	848.4	839.4	9.03	93.952		
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	-92.21	-32.8	-847.8	848.4	839.0	9.38	90.455		
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	-92.21	-32.8	-847.8	848.4	838.7	9.73	87.210		
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	-92.21	-32.8	-847.8	848.4	838.3	10.08	84.189		
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	-92.21	-32.8	-847.8	848.4	838.0	10.43	81.370		
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	-92.21	-32.8	-847.8	848.4	837.6	10.78	78.735		
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	-92.21	-32.8	-847.8	848.4	837.3	11.12	76.264		
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	-92.21	-32.8	-847.8	848.4	836.9	11.47	73.944		
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	-92.21	-32.8	-847.8	848.4	836.6	11.82	71.761		
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	-92.21	-32.8	-847.8	848.4	836.2	12.17	69.703		
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	-92.21	-32.8	-847.8	848.4	835.9	12.52	67.760		
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	-92.21	-32.8	-847.8	848.4	835.5	12.87	65.922		
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	-92.21	-32.8	-847.8	848.4	835.2	13.22	64.181		
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	-92.21	-32.8	-847.8	848.4	834.8	13.57	62.530		
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	-92.21	-32.8	-847.8	848.4	834.5	13.92	60.962		
4,100.0	4,100.0	4,100.0	4,100.0	7.1	7.1	-92.21	-32.8	-847.8	848.4	834.2	14.27	59.470		
4,200.0	4,200.0	4,200.0	4,200.0	7.3	7.3	-92.21	-32.8	-847.8	848.4	833.8	14.62	58.050		
4,300.0	4,300.0	4,300.0	4,300.0	7.5	7.5	-92.21	-32.8	-847.8	848.4	833.5	14.96	56.696		
4,400.0	4,400.0	4,400.0	4,400.0	7.7	7.7	-92.21	-32.8	-847.8	848.4	833.1	15.31	55.403		
4,500.0	4,500.0	4,500.0	4,500.0	7.8	7.8	-92.21	-32.8	-847.8	848.4	832.8	15.66	54.168		
4,600.0	4,600.0	4,600.0	4,600.0	8.0	8.0	-92.21	-32.8	-847.8	848.4	832.4	16.01	52.987		
4,700.0	4,700.0	4,700.0	4,700.0	8.2	8.2	-92.21	-32.8	-847.8	848.4	832.1	16.36	51.857		
4,800.0	4,800.0	4,800.0	4,800.0	8.4	8.4	-92.21	-32.8	-847.8	848.4	831.7	16.71	50.774		
4,900.0	4,900.0	4,900.0	4,900.0	8.5	8.5	-92.21	-32.8	-847.8	848.4	831.4	17.06	49.735		
5,000.0	5,000.0	5,000.0	5,000.0	8.7	8.7	-92.21	-32.8	-847.8	848.4	831.0	17.41	48.737		
5,100.0	5,100.0	5,085.0	5,085.0	8.9	8.9	-48.73	-31.1	-848.6	847.6	829.8	17.72	47.820		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan 1B-6H - 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	5,199.6	5,170.0	5,169.8	9.1	9.0	-48.77	-25.9	-851.1	845.0	827.0	18.03	46.868		
5,300.0	5,298.8	5,255.0	5,254.2	9.2	9.2	-48.84	-17.4	-855.1	840.8	822.5	18.33	45.868		
5,400.0	5,397.1	5,342.5	5,340.6	9.4	9.3	-48.95	-5.2	-861.0	834.9	816.3	18.64	44.797		
5,500.0	5,494.6	5,442.1	5,438.9	9.7	9.5	-49.10	10.0	-868.3	826.9	807.9	19.02	43.487		
5,600.0	5,592.0	5,541.8	5,537.1	9.9	9.7	-49.21	25.3	-875.6	818.7	799.3	19.43	42.139		
5,700.0	5,689.4	5,641.4	5,635.3	10.1	9.9	-49.32	40.5	-882.9	810.5	790.6	19.86	40.818		
5,800.0	5,786.8	5,741.1	5,733.5	10.4	10.2	-49.43	55.8	-890.2	802.2	781.9	20.30	39.526		
5,900.0	5,884.2	5,840.7	5,831.7	10.7	10.4	-49.55	71.0	-897.5	794.0	773.3	20.75	38.264		
6,000.0	5,981.6	5,940.4	5,929.9	11.0	10.6	-49.66	86.3	-904.9	785.8	764.6	21.22	37.036		
6,100.0	6,079.0	6,040.0	6,028.1	11.3	10.9	-49.78	101.5	-912.2	777.6	755.9	21.70	35.841		
6,200.0	6,176.4	6,139.7	6,126.3	11.6	11.1	-49.91	116.8	-919.5	769.4	747.2	22.18	34.681		
6,300.0	6,273.8	6,239.3	6,224.5	11.9	11.4	-50.03	132.0	-926.8	761.2	738.5	22.68	33.555		
6,400.0	6,371.3	6,339.0	6,322.7	12.2	11.6	-41.05	147.3	-934.1	752.9	729.7	23.17	32.490		
6,500.0	6,469.9	6,433.1	6,415.9	12.4	11.8	15.97	157.4	-941.0	744.1	720.6	23.48	31.698		
6,600.0	6,567.5	6,526.6	6,509.0	12.6	12.0	53.57	152.7	-948.0	735.4	711.8	23.62	31.131		
6,700.0	6,661.3	6,621.6	6,601.4	12.7	12.0	68.16	132.4	-954.9	727.1	703.4	23.68	30.707		
6,800.0	6,748.3	6,718.2	6,690.7	12.8	12.1	75.60	96.4	-961.5	719.4	695.7	23.73	30.318		
6,900.0	6,825.9	6,816.7	6,774.2	12.9	12.1	80.31	44.7	-967.7	712.8	688.9	23.89	29.838		
7,000.0	6,891.7	6,917.3	6,849.1	13.1	12.3	83.66	-22.0	-973.3	707.3	683.0	24.27	29.145		
7,100.0	6,943.8	7,020.0	6,912.4	13.5	12.5	86.16	-102.6	-978.0	703.2	678.2	24.97	28.158		
7,200.0	6,980.6	7,125.0	6,961.2	14.1	13.0	88.01	-195.2	-981.7	700.5	674.4	26.06	26.879		
7,300.0	7,000.9	7,232.0	6,992.8	14.8	13.8	89.30	-297.3	-984.0	699.3	671.8	27.54	25.389		
7,327.3	7,003.7	7,261.5	6,998.1	15.1	14.0	89.52	-326.4	-984.4	699.2	671.2	28.03	24.943 CC		
7,400.0	7,005.0	7,341.0	7,004.9	15.7	14.7	89.99	-405.5	-984.9	699.5	670.1	29.41	23.784		
7,500.0	7,005.0	7,441.9	7,005.0	16.8	15.8	90.00	-506.4	-984.9	699.5	667.9	31.57	22.159		
7,600.0	7,005.0	7,541.9	7,005.0	17.9	16.9	90.00	-606.4	-984.9	699.5	665.6	33.93	20.616		
7,700.0	7,005.0	7,641.9	7,005.0	19.1	18.2	90.00	-706.4	-984.9	699.5	663.0	36.48	19.176		
7,800.0	7,005.0	7,741.9	7,005.0	20.5	19.5	90.00	-806.4	-984.9	699.5	660.3	39.17	17.856		
7,900.0	7,005.0	7,841.9	7,005.0	21.8	20.9	90.00	-906.4	-984.9	699.5	657.5	41.99	16.658		
8,000.0	7,005.0	7,941.9	7,005.0	23.3	22.3	90.00	-1,006.4	-984.9	699.5	654.6	44.91	15.577		
8,100.0	7,005.0	8,041.9	7,005.0	24.7	23.8	90.00	-1,106.4	-984.9	699.5	651.6	47.90	14.603		
8,200.0	7,005.0	8,141.9	7,005.0	26.2	25.3	90.00	-1,206.4	-985.0	699.5	648.5	50.96	13.726		
8,300.0	7,005.0	8,241.9	7,005.0	27.8	26.9	90.00	-1,306.4	-985.0	699.5	645.4	54.08	12.936		
8,400.0	7,005.0	8,341.9	7,005.0	29.3	28.5	90.00	-1,406.4	-985.0	699.5	642.3	57.24	12.221		
8,500.0	7,005.0	8,441.9	7,005.0	30.9	30.0	90.00	-1,506.4	-985.0	699.5	639.1	60.44	11.575		
8,600.0	7,005.0	8,541.9	7,005.0	32.5	31.7	90.00	-1,606.4	-985.0	699.5	635.9	63.67	10.987		
8,700.0	7,005.0	8,641.9	7,005.0	34.1	33.3	90.00	-1,706.4	-985.0	699.5	632.6	66.93	10.452		
8,800.0	7,005.0	8,741.9	7,005.0	35.7	34.9	90.00	-1,806.4	-985.0	699.5	629.3	70.21	9.963		
8,900.0	7,005.0	8,841.9	7,005.0	37.4	36.6	90.00	-1,906.4	-985.0	699.5	626.0	73.51	9.516		
9,000.0	7,005.0	8,941.9	7,005.0	39.0	38.2	90.00	-2,006.4	-985.0	699.5	622.7	76.84	9.104		
9,100.0	7,005.0	9,041.9	7,005.0	40.7	39.9	90.00	-2,106.4	-985.0	699.5	619.4	80.17	8.725		
9,200.0	7,005.0	9,141.9	7,005.0	42.3	41.6	90.00	-2,206.4	-985.0	699.5	616.0	83.53	8.375		
9,300.0	7,005.0	9,241.9	7,005.0	44.0	43.2	90.00	-2,306.4	-985.0	699.5	612.7	86.89	8.051		
9,400.0	7,005.0	9,341.9	7,005.0	45.7	44.9	90.00	-2,406.4	-985.0	699.5	609.3	90.27	7.750		
9,500.0	7,005.0	9,441.9	7,005.0	47.4	46.6	90.00	-2,506.4	-985.0	699.5	605.9	93.65	7.470		
9,600.0	7,005.0	9,541.9	7,005.0	49.1	48.3	90.00	-2,606.4	-985.0	699.6	602.5	97.04	7.209		
9,700.0	7,005.0	9,641.9	7,005.0	50.8	50.0	90.00	-2,706.4	-985.0	699.6	599.1	100.45	6.964		
9,800.0	7,005.0	9,741.9	7,005.0	52.5	51.7	90.00	-2,806.4	-985.0	699.6	595.7	103.85	6.736		
9,900.0	7,005.0	9,841.9	7,005.0	54.2	53.4	90.00	-2,906.4	-985.0	699.6	592.3	107.27	6.522		
10,000.0	7,005.0	9,941.9	7,005.0	55.9	55.1	90.00	-3,006.4	-985.0	699.6	588.9	110.69	6.320		
10,100.0	7,005.0	10,041.9	7,005.0	57.6	56.8	90.00	-3,106.4	-985.0	699.6	585.5	114.12	6.130		
10,200.0	7,005.0	10,141.9	7,005.0	59.3	58.5	90.00	-3,206.4	-985.0	699.6	582.0	117.55	5.951		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan 1B-6H - 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		
10,300.0	7,005.0	10,241.9	7,005.0	61.0	60.3	90.00	-3,306.4	-985.0	699.6	578.6	120.98	5.782		
10,400.0	7,005.0	10,341.9	7,005.0	62.7	62.0	90.00	-3,406.4	-985.0	699.6	575.2	124.42	5.623		
10,500.0	7,005.0	10,441.9	7,005.0	64.4	63.7	90.00	-3,506.4	-985.0	699.6	571.7	127.87	5.471		
10,600.0	7,005.0	10,541.9	7,005.0	66.1	65.4	90.00	-3,606.4	-985.0	699.6	568.3	131.31	5.328		
10,700.0	7,005.0	10,641.9	7,005.0	67.9	67.1	90.00	-3,706.4	-985.0	699.6	564.8	134.76	5.191		
10,800.0	7,005.0	10,741.9	7,005.0	69.6	68.9	90.00	-3,806.4	-985.0	699.6	561.4	138.22	5.062		
10,900.0	7,005.0	10,841.9	7,005.0	71.3	70.6	90.00	-3,906.4	-985.0	699.6	557.9	141.67	4.938		
11,000.0	7,005.0	10,941.9	7,005.0	73.0	72.3	90.00	-4,006.4	-985.0	699.6	554.5	145.13	4.821		
11,100.0	7,005.0	11,041.9	7,005.0	74.8	74.0	90.00	-4,106.4	-985.0	699.6	551.0	148.59	4.708		
11,200.0	7,005.0	11,141.9	7,005.0	76.5	75.8	90.00	-4,206.4	-985.1	699.6	547.6	152.05	4.601		
11,300.0	7,005.0	11,241.9	7,005.0	78.2	77.5	90.00	-4,306.4	-985.1	699.6	544.1	155.52	4.499		
11,400.0	7,005.0	11,341.9	7,005.0	79.9	79.2	90.00	-4,406.4	-985.1	699.6	540.6	158.98	4.401		
11,500.0	7,005.0	11,441.9	7,005.0	81.7	81.0	90.00	-4,506.4	-985.1	699.6	537.2	162.45	4.307		
11,568.9	7,005.0	11,510.8	7,005.0	82.9	82.2	90.00	-4,575.3	-985.1	699.6	534.8	164.84	4.244 ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan 1D-6H - 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	81.75	3.7	25.2	25.4					
100.0	100.0	100.0	100.0	0.2	0.2	81.75	3.7	25.2	25.4	25.1	0.30	83.787		
200.0	200.0	200.0	200.0	0.3	0.3	81.75	3.7	25.2	25.4	24.8	0.65	38.981		
300.0	300.0	300.0	300.0	0.5	0.5	81.75	3.7	25.2	25.4	24.4	1.00	25.399		
400.0	400.0	400.0	400.0	0.7	0.7	81.75	3.7	25.2	25.4	24.1	1.35	18.836		
500.0	500.0	500.0	500.0	0.8	0.8	81.75	3.7	25.2	25.4	23.7	1.70	14.968		
600.0	600.0	600.0	600.0	1.0	1.0	81.75	3.7	25.2	25.4	23.4	2.05	12.418		
700.0	700.0	700.0	700.0	1.2	1.2	81.75	3.7	25.2	25.4	23.0	2.40	10.611		
800.0	800.0	800.0	800.0	1.4	1.4	81.75	3.7	25.2	25.4	22.7	2.75	9.262		
900.0	900.0	900.0	900.0	1.5	1.5	81.75	3.7	25.2	25.4	22.3	3.10	8.218		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	81.75	3.7	25.2	25.4	22.0	3.45	7.385		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	81.75	3.7	25.2	25.4	21.7	3.79	6.706		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	81.75	3.7	25.2	25.4	21.3	4.14	6.141		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	81.75	3.7	25.2	25.4	21.0	4.49	5.664		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	81.75	3.7	25.2	25.4	20.6	4.84	5.256		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	81.75	3.7	25.2	25.4	20.3	5.19	4.902		
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	81.75	3.7	25.2	25.4	19.9	5.54	4.593		
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	81.75	3.7	25.2	25.4	19.6	5.89	4.321		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	81.75	3.7	25.2	25.4	19.2	6.24	4.079		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	81.75	3.7	25.2	25.4	18.9	6.59	3.863		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	81.75	3.7	25.2	25.4	18.5	6.94	3.669		
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	81.75	3.7	25.2	25.4	18.2	7.29	3.493		
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	81.75	3.7	25.2	25.4	17.8	7.63	3.333		
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	81.75	3.7	25.2	25.4	17.5	7.98	3.187		
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	81.75	3.7	25.2	25.4	17.1	8.33	3.054		
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	81.75	3.7	25.2	25.4	16.8	8.68	2.931		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	81.75	3.7	25.2	25.4	16.4	9.03	2.818		
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	81.75	3.7	25.2	25.4	16.1	9.38	2.713		
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	81.75	3.7	25.2	25.4	15.7	9.73	2.616		
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	81.75	3.7	25.2	25.4	15.4	10.08	2.525		
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	81.75	3.7	25.2	25.4	15.0	10.43	2.440 CC, ES, SF		
3,100.0	3,100.0	3,098.7	3,098.7	5.4	5.4	79.66	5.0	27.4	27.8	17.1	10.77	2.584		
3,200.0	3,200.0	3,196.9	3,196.5	5.6	5.6	75.13	9.0	33.8	35.2	24.0	11.12	3.160		
3,300.0	3,300.0	3,295.7	3,294.7	5.7	5.7	71.03	14.9	43.5	46.3	34.8	11.48	4.030		
3,400.0	3,400.0	3,395.1	3,393.4	5.9	5.9	68.47	21.0	53.3	57.7	45.9	11.84	4.874		
3,500.0	3,500.0	3,494.4	3,492.0	6.1	6.1	66.77	27.1	63.2	69.2	57.0	12.20	5.672		
3,600.0	3,600.0	3,593.7	3,590.7	6.3	6.3	65.55	33.2	73.0	80.8	68.2	12.57	6.428		
3,700.0	3,700.0	3,693.0	3,689.3	6.4	6.5	64.64	39.3	82.9	92.3	79.4	12.93	7.141		
3,800.0	3,800.0	3,792.3	3,787.9	6.6	6.8	63.93	45.4	92.7	104.0	90.7	13.30	7.815		
3,900.0	3,900.0	3,891.6	3,886.6	6.8	7.0	63.36	51.5	102.6	115.6	101.9	13.67	8.453		
4,000.0	4,000.0	3,991.0	3,985.2	7.0	7.2	62.90	57.6	112.5	127.2	113.1	14.04	9.057		
4,100.0	4,100.0	4,090.3	4,083.9	7.1	7.4	62.51	63.6	122.3	138.8	124.4	14.42	9.629		
4,200.0	4,200.0	4,189.6	4,182.5	7.3	7.6	62.18	69.7	132.2	150.5	135.7	14.79	10.172		
4,300.0	4,300.0	4,288.9	4,281.1	7.5	7.9	61.90	75.8	142.0	162.1	146.9	15.17	10.688		
4,400.0	4,400.0	4,388.2	4,379.8	7.7	8.1	61.66	81.9	151.9	173.7	158.2	15.54	11.177		
4,500.0	4,500.0	4,487.5	4,478.4	7.8	8.3	61.45	88.0	161.7	185.4	169.5	15.92	11.643		
4,600.0	4,600.0	4,586.9	4,577.1	8.0	8.6	61.26	94.1	171.6	197.0	180.7	16.30	12.087		
4,700.0	4,700.0	4,686.2	4,675.7	8.2	8.8	61.10	100.2	181.4	208.7	192.0	16.68	12.510		
4,800.0	4,800.0	4,785.5	4,774.3	8.4	9.0	60.95	106.3	191.3	220.3	203.3	17.06	12.914		
4,900.0	4,900.0	4,884.8	4,873.0	8.5	9.3	60.82	112.3	201.2	232.0	214.5	17.44	13.299		
5,000.0	5,000.0	4,984.1	4,971.6	8.7	9.5	60.70	118.4	211.0	243.6	225.8	17.82	13.668		
5,100.0	5,100.0	5,083.3	5,070.1	8.9	9.8	104.30	124.5	220.9	255.9	238.2	17.72	14.441		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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 S6-T1N-R64W (Flanigan) - Flanigan 1D-6H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,199.6	5,182.2	5,168.3	9.1	10.0	105.40	130.6	230.7	269.6	251.5	18.07	14.923		
5,300.0	5,298.8	5,280.3	5,265.8	9.2	10.2	107.31	136.6	240.4	285.0	266.6	18.41	15.476		
5,400.0	5,397.1	5,377.5	5,362.3	9.4	10.5	109.84	142.5	250.0	302.5	283.8	18.77	16.119		
5,500.0	5,494.6	5,473.8	5,457.9	9.7	10.7	112.99	148.4	259.6	322.4	303.3	19.15	16.840		
5,600.0	5,592.0	5,570.0	5,553.5	9.9	11.0	116.01	154.3	269.1	343.4	323.9	19.55	17.568		
5,700.0	5,689.4	5,666.2	5,649.0	10.1	11.2	118.68	160.2	278.7	365.3	345.3	19.96	18.298		
5,800.0	5,786.8	5,762.4	5,744.6	10.4	11.5	121.06	166.1	288.2	387.8	367.4	20.39	19.023		
5,900.0	5,884.2	5,858.6	5,840.1	10.7	11.7	123.18	172.0	297.8	410.9	390.1	20.82	19.739		
6,000.0	5,981.6	5,954.8	5,935.7	11.0	11.9	125.07	177.9	307.3	434.5	413.3	21.26	20.443		
6,100.0	6,079.0	6,051.0	6,031.2	11.3	12.2	126.77	183.8	316.9	458.5	436.8	21.70	21.133		
6,200.0	6,176.4	6,147.2	6,126.8	11.6	12.4	128.30	189.7	326.4	482.9	460.7	22.14	21.807		
6,300.0	6,273.8	6,243.4	6,222.3	11.9	12.7	129.69	195.6	336.0	507.5	484.9	22.59	22.466		
6,400.0	6,371.3	6,339.7	6,317.9	12.2	12.9	140.40	201.5	345.5	532.5	509.4	23.03	23.118		
6,500.0	6,469.9	6,436.5	6,414.1	12.4	13.2	-161.54	207.3	355.1	558.0	534.6	23.39	23.851		
6,600.0	6,567.5	6,535.4	6,512.2	12.6	13.3	-123.74	202.3	364.9	583.4	559.8	23.63	24.695		
6,700.0	6,661.3	6,636.3	6,610.0	12.7	13.5	-109.11	180.0	374.7	608.0	584.3	23.75	25.604		
6,800.0	6,748.3	6,739.5	6,704.3	12.8	13.5	-101.78	139.6	384.1	631.1	607.2	23.83	26.484		
6,900.0	6,825.9	6,845.2	6,791.9	12.9	13.6	-97.33	81.4	392.9	651.7	627.7	23.97	27.187		
7,000.0	6,891.7	6,953.5	6,869.1	13.1	13.8	-94.37	6.0	400.6	669.4	645.0	24.32	27.524		
7,100.0	6,943.8	7,064.2	6,931.9	13.5	14.2	-92.34	-84.7	406.9	683.4	658.3	25.02	27.312		
7,200.0	6,980.6	7,176.7	6,976.9	14.1	14.7	-91.00	-187.6	411.4	693.2	667.1	26.18	26.478		
7,300.0	7,009.9	7,290.3	7,001.1	14.8	15.5	-90.22	-298.4	413.8	698.6	670.8	27.83	25.104		
7,400.0	7,005.0	7,398.5	7,005.0	15.7	16.4	-90.00	-406.4	414.2	699.6	669.8	29.82	23.458		
7,500.0	7,005.0	7,498.5	7,005.0	16.8	17.4	-90.00	-506.4	414.2	699.6	667.6	32.01	21.857		
7,600.0	7,005.0	7,598.5	7,005.0	17.9	18.6	-90.00	-606.4	414.2	699.6	665.2	34.41	20.330		
7,700.0	7,005.0	7,698.5	7,005.0	19.1	19.8	-90.00	-706.4	414.2	699.6	662.6	36.99	18.912		
7,800.0	7,005.0	7,798.5	7,005.0	20.5	21.0	-90.00	-806.4	414.2	699.6	659.9	39.72	17.615		
7,900.0	7,005.0	7,898.5	7,005.0	21.8	22.4	-90.00	-906.4	414.2	699.6	657.1	42.55	16.440		
8,000.0	7,005.0	7,998.5	7,005.0	23.3	23.8	-90.00	-1,006.4	414.2	699.6	654.1	45.49	15.381		
8,100.0	7,005.0	8,098.5	7,005.0	24.7	25.2	-90.00	-1,106.4	414.2	699.6	651.1	48.49	14.427		
8,200.0	7,005.0	8,198.5	7,005.0	26.2	26.7	-90.00	-1,206.4	414.2	699.6	648.1	51.57	13.567		
8,300.0	7,005.0	8,298.5	7,005.0	27.8	28.2	-90.00	-1,306.4	414.2	699.6	644.9	54.69	12.792		
8,400.0	7,005.0	8,398.5	7,005.0	29.3	29.8	-90.00	-1,406.4	414.2	699.6	641.8	57.86	12.092		
8,500.0	7,005.0	8,498.5	7,005.0	30.9	31.3	-90.00	-1,506.4	414.2	699.6	638.6	61.06	11.457		
8,600.0	7,005.0	8,598.5	7,005.0	32.5	32.9	-90.00	-1,606.4	414.2	699.6	635.3	64.30	10.880		
8,700.0	7,005.0	8,698.5	7,005.0	34.1	34.5	-90.00	-1,706.4	414.2	699.6	632.1	67.57	10.355		
8,800.0	7,005.0	8,798.5	7,005.0	35.7	36.1	-90.00	-1,806.4	414.2	699.6	628.8	70.85	9.874		
8,900.0	7,005.0	8,898.5	7,005.0	37.4	37.8	-90.00	-1,906.4	414.2	699.6	625.5	74.16	9.434		
9,000.0	7,005.0	8,998.5	7,005.0	39.0	39.4	-90.00	-2,006.4	414.2	699.6	622.1	77.49	9.029		
9,100.0	7,005.0	9,098.5	7,005.0	40.7	41.0	-90.00	-2,106.4	414.2	699.6	618.8	80.83	8.656		
9,200.0	7,005.0	9,198.5	7,005.0	42.3	42.7	-90.00	-2,206.4	414.2	699.6	615.4	84.18	8.311		
9,300.0	7,005.0	9,298.5	7,005.0	44.0	44.4	-90.00	-2,306.4	414.2	699.6	612.1	87.55	7.991		
9,400.0	7,005.0	9,398.5	7,005.0	45.7	46.0	-90.00	-2,406.4	414.2	699.6	608.7	90.92	7.695		
9,500.0	7,005.0	9,498.5	7,005.0	47.4	47.7	-90.00	-2,506.4	414.2	699.6	605.3	94.31	7.418		
9,600.0	7,005.0	9,598.5	7,005.0	49.1	49.4	-90.00	-2,606.4	414.2	699.6	601.9	97.71	7.160		
9,700.0	7,005.0	9,698.5	7,005.0	50.8	51.1	-90.00	-2,706.4	414.2	699.6	598.5	101.11	6.919		
9,800.0	7,005.0	9,798.5	7,005.0	52.5	52.8	-90.00	-2,806.4	414.2	699.6	595.1	104.52	6.694		
9,900.0	7,005.0	9,898.5	7,005.0	54.2	54.4	-90.00	-2,906.4	414.2	699.6	591.7	107.93	6.482		
10,000.0	7,005.0	9,998.5	7,005.0	55.9	56.1	-90.00	-3,006.4	414.2	699.6	588.3	111.36	6.283		
10,100.0	7,005.0	10,098.5	7,005.0	57.6	57.8	-90.00	-3,106.4	414.2	699.6	584.8	114.78	6.095		
10,200.0	7,005.0	10,198.5	7,005.0	59.3	59.6	-90.00	-3,206.4	414.2	699.6	581.4	118.22	5.918		
10,300.0	7,005.0	10,298.5	7,005.0	61.0	61.3	-90.00	-3,306.4	414.2	699.6	578.0	121.65	5.751		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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

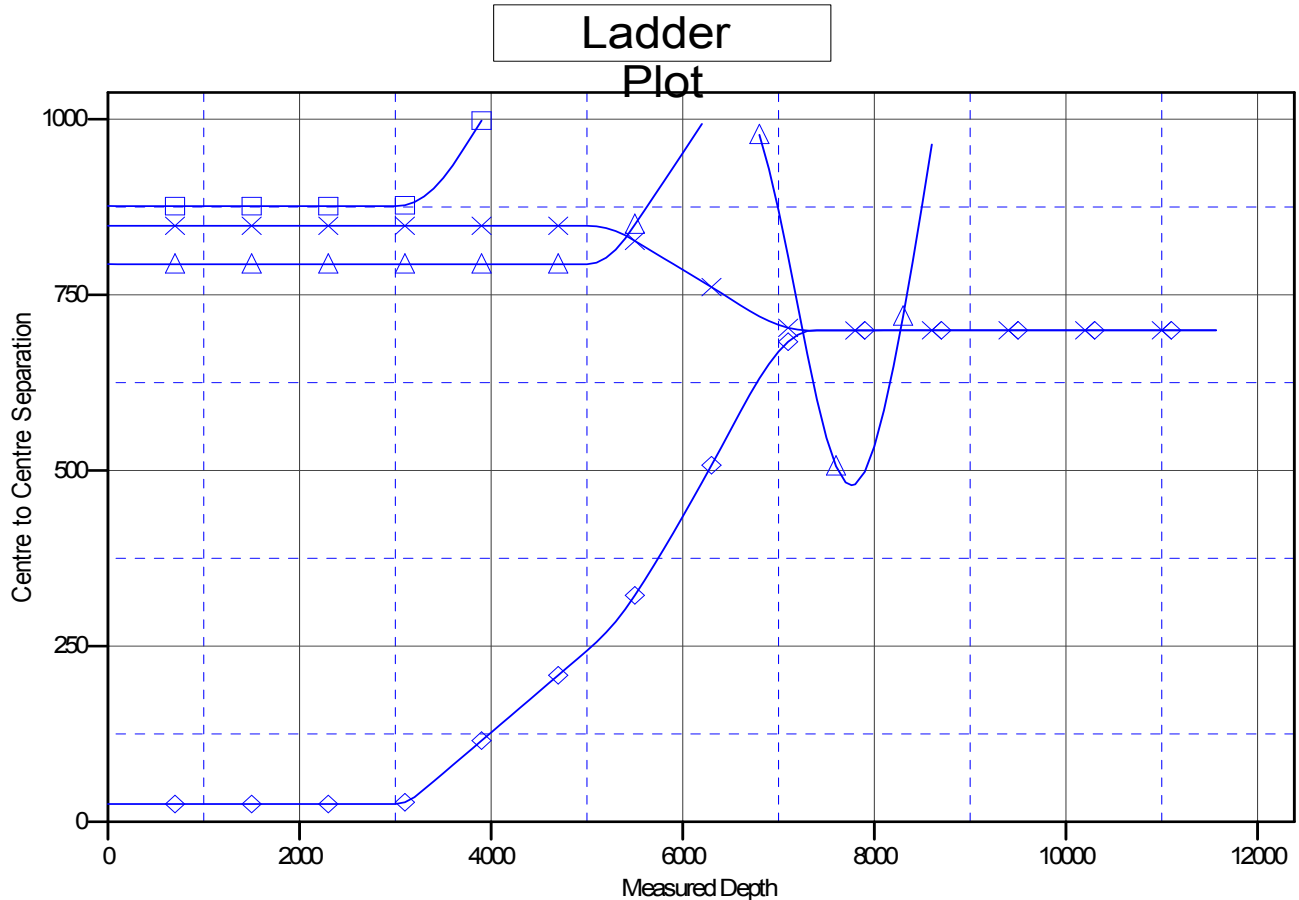
Offset Design NWNE S6-T1N-R64W (Flanigan) - Flanigan 1D-6H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)		
10,400.0	7,005.0	10,398.5	7,005.0	62.7	63.0	-90.00	-3,406.4	414.2	699.6	574.5	125.09	5.593		
10,500.0	7,005.0	10,498.5	7,005.0	64.4	64.7	-90.00	-3,506.4	414.2	699.6	571.1	128.54	5.443		
10,600.0	7,005.0	10,598.5	7,005.0	66.1	66.4	-90.00	-3,606.4	414.2	699.6	567.6	131.98	5.301		
10,700.0	7,005.0	10,698.5	7,005.0	67.9	68.1	-90.00	-3,706.4	414.2	699.6	564.2	135.43	5.166		
10,800.0	7,005.0	10,798.5	7,005.0	69.6	69.8	-90.00	-3,806.4	414.2	699.6	560.7	138.89	5.037		
10,900.0	7,005.0	10,898.5	7,005.0	71.3	71.5	-90.00	-3,906.4	414.2	699.6	557.3	142.34	4.915		
11,000.0	7,005.0	10,998.5	7,005.0	73.0	73.3	-90.00	-4,006.4	414.2	699.6	553.8	145.80	4.798		
11,100.0	7,005.0	11,098.5	7,005.0	74.8	75.0	-90.00	-4,106.4	414.2	699.6	550.4	149.26	4.687		
11,200.0	7,005.0	11,198.5	7,005.0	76.5	76.7	-90.00	-4,206.4	414.2	699.6	546.9	152.72	4.581		
11,300.0	7,005.0	11,298.5	7,005.0	78.2	78.4	-90.00	-4,306.4	414.2	699.6	543.4	156.19	4.479		
11,400.0	7,005.0	11,398.5	7,005.0	79.9	80.2	-90.00	-4,406.4	414.2	699.6	540.0	159.66	4.382		
11,500.0	7,005.0	11,498.5	7,005.0	81.7	81.9	-90.00	-4,506.4	414.2	699.6	536.5	163.12	4.289		
11,568.9	7,005.0	11,567.4	7,005.0	82.9	83.1	-90.00	-4,575.3	414.2	699.6	534.1	165.52	4.227		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1C-6H
Project:	DJ Wattenberg	TVD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	KB=13' @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1C-6H	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' @ 5029.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Flanigan 1C-6H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.59°



LEGEND

- Flanigan 1A-6H, Hz, Plan #1 V0
 ◆ Flanigan 1D-6H, Hz, Plan #1 V0
- ▲ Flanigan #1 (Existing), Existing, Existing V0
 ✕ Flanigan 1B-6H, Hz, Plan #1 V0