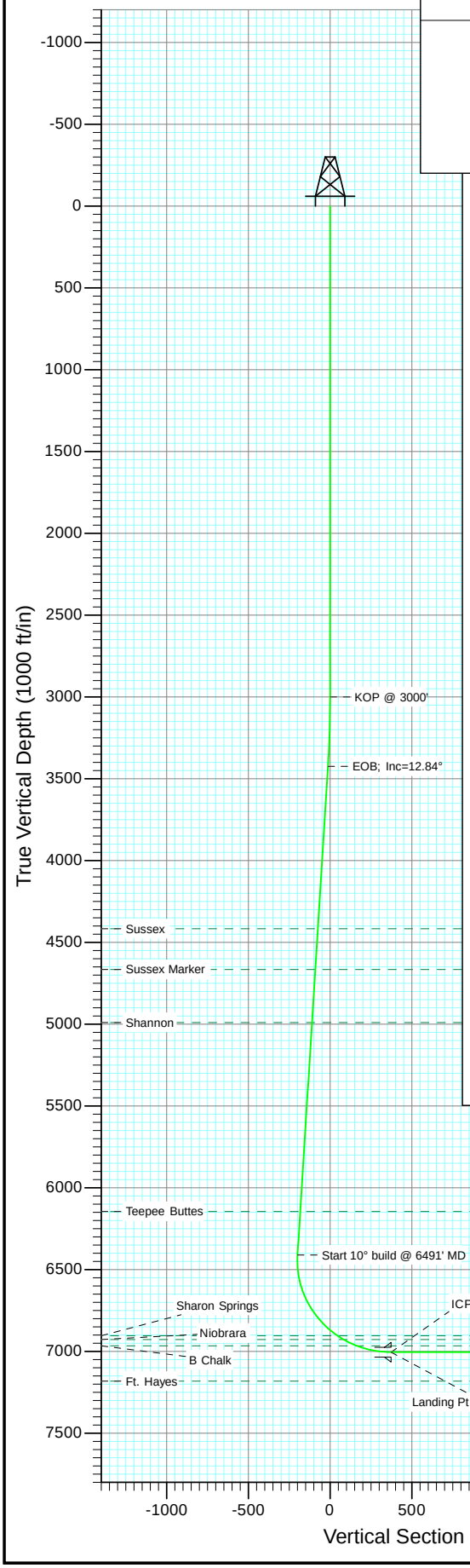
encana natural gas

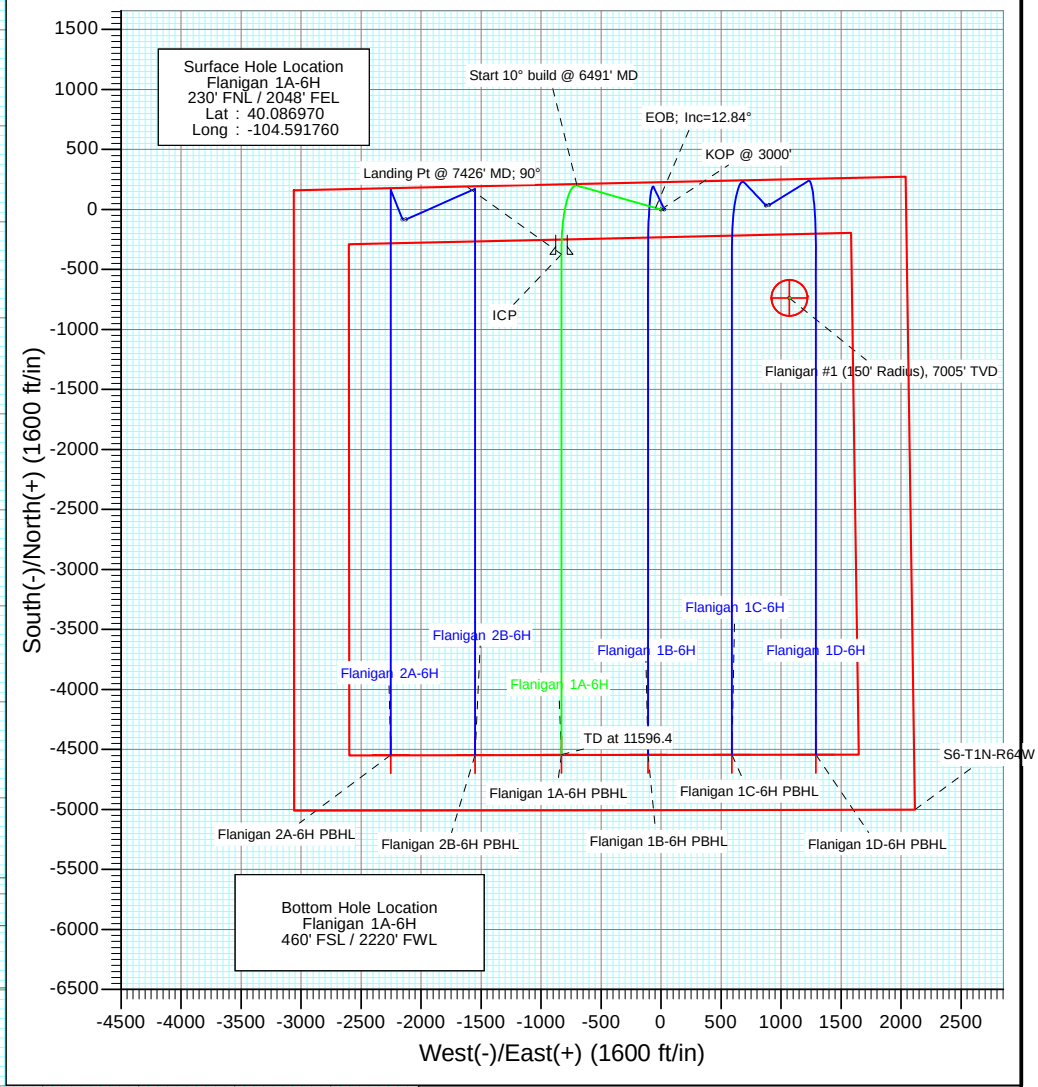
Project: DJ Wattenberg
Site: NWNE S6-T1N-R64W (Flanigan)
Well: Flanigan 1A-6H
Wellbore: Hz
Design: Plan #1

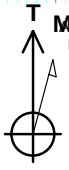
CATHEDRAL

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3428.1	12.84	285.88	3424.5	13.1	-46.0	3.00	285.88	-13.1	
4	6491.5	12.84	285.88	6411.3	199.4	-701.0	0.00	0.00	-199.4	
5	7426.4	90.00	180.00	7005.0	-372.5	-831.1	10.00	-105.50	372.5	
6	11596.4	90.00	180.00	7005.0	-4542.5	-831.1	0.00	0.00	4542.5	Flanigan 1A-6H PBHL







Azimuths to True North
Magnetic North: 8.63°

Magnetic Field
Strength: 52893.0snT
Dip Angle: 66.80°
Date: 4/25/2012
Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4417.0	4446.0	Sussex
4666.0	4701.4	Sussex Marker
4990.0	5033.7	Shannon
6145.0	6218.4	Teepee Buttes
6904.0	7076.8	Sharon Springs
6928.0	7122.3	Niobrara
6966.0	7211.2	B Chalk

Plan #1
Flanigan 1A-6H
12xxc LR
KB=13' @ 5010.0ft (Original Well Elev)
GL @ 4997.0
North American Datum 1983
Well Flanigan 1A-6H, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
User	No Target (Freehand)	180.00	Slot	0.0	0.0	0.0

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
Flanigan 1A-6H PBHL	7005.0	-4542.5	-831.1	40.074500	-104.594730

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 1A-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 1A-6H

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,275,831.81 ft	**Latitude:**	40.086970
	+E/-W	0.0 ft	**Easting:**	3,254,124.27 ft	**Longitude:**	-104.591760
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,997.0 ft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/25/2012	8.63	66.80	52,893

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,428.1	12.84	285.88	3,424.5	13.1	-46.0	3.00	3.00	0.00	285.88	
6,491.5	12.84	285.88	6,411.3	199.4	-701.0	0.00	0.00	0.00	0.00	
7,426.4	90.00	180.00	7,005.0	-372.5	-831.1	10.00	8.25	-11.33	-105.50	
11,596.4	90.00	180.00	7,005.0	-4,542.5	-831.1	0.00	0.00	0.00	0.00	Flanigan 1A-6H PBHL

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 1A-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	KOP @ 3000'
3,100.0	3.00	285.88	3,100.0	0.7	-2.5	-0.7	3.00	3.00	
3,200.0	6.00	285.88	3,199.6	2.9	-10.1	-2.9	3.00	3.00	
3,300.0	9.00	285.88	3,298.8	6.4	-22.6	-6.4	3.00	3.00	
3,400.0	12.00	285.88	3,397.1	11.4	-40.1	-11.4	3.00	3.00	
3,428.1	12.84	285.88	3,424.5	13.1	-46.0	-13.1	3.00	3.00	EOB; Inc=12.84°
3,500.0	12.84	285.88	3,494.6	17.4	-61.3	-17.4	0.00	0.00	
3,600.0	12.84	285.88	3,592.1	23.5	-82.7	-23.5	0.00	0.00	
3,700.0	12.84	285.88	3,689.6	29.6	-104.1	-29.6	0.00	0.00	
3,800.0	12.84	285.88	3,787.1	35.7	-125.5	-35.7	0.00	0.00	
3,900.0	12.84	285.88	3,884.6	41.8	-146.9	-41.8	0.00	0.00	
4,000.0	12.84	285.88	3,982.1	47.9	-168.2	-47.9	0.00	0.00	
4,100.0	12.84	285.88	4,079.6	53.9	-189.6	-53.9	0.00	0.00	
4,200.0	12.84	285.88	4,177.1	60.0	-211.0	-60.0	0.00	0.00	
4,300.0	12.84	285.88	4,274.6	66.1	-232.4	-66.1	0.00	0.00	
4,400.0	12.84	285.88	4,372.1	72.2	-253.8	-72.2	0.00	0.00	
4,446.0	12.84	285.88	4,417.0	75.0	-263.6	-75.0	0.00	0.00	Sussex
4,500.0	12.84	285.88	4,469.6	78.3	-275.1	-78.3	0.00	0.00	
4,600.0	12.84	285.88	4,567.1	84.3	-296.5	-84.3	0.00	0.00	
4,700.0	12.84	285.88	4,664.6	90.4	-317.9	-90.4	0.00	0.00	
4,701.4	12.84	285.88	4,666.0	90.5	-318.2	-90.5	0.00	0.00	Sussex Marker
4,800.0	12.84	285.88	4,762.1	96.5	-339.3	-96.5	0.00	0.00	

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Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 1A-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
4,900.0	12.84	285.88	4,859.6	102.6	-360.7	-102.6	0.00	0.00	
5,000.0	12.84	285.88	4,957.1	108.7	-382.0	-108.7	0.00	0.00	
5,033.7	12.84	285.88	4,990.0	110.7	-389.3	-110.7	0.00	0.00	Shannon
5,100.0	12.84	285.88	5,054.6	114.7	-403.4	-114.7	0.00	0.00	
5,200.0	12.84	285.88	5,152.1	120.8	-424.8	-120.8	0.00	0.00	
5,300.0	12.84	285.88	5,249.6	126.9	-446.2	-126.9	0.00	0.00	
5,400.0	12.84	285.88	5,347.1	133.0	-467.6	-133.0	0.00	0.00	
5,500.0	12.84	285.88	5,444.6	139.1	-489.0	-139.1	0.00	0.00	
5,600.0	12.84	285.88	5,542.1	145.2	-510.3	-145.2	0.00	0.00	
5,700.0	12.84	285.88	5,639.6	151.2	-531.7	-151.2	0.00	0.00	
5,800.0	12.84	285.88	5,737.1	157.3	-553.1	-157.3	0.00	0.00	
5,900.0	12.84	285.88	5,834.6	163.4	-574.5	-163.4	0.00	0.00	
6,000.0	12.84	285.88	5,932.1	169.5	-595.9	-169.5	0.00	0.00	
6,100.0	12.84	285.88	6,029.6	175.6	-617.2	-175.6	0.00	0.00	
6,200.0	12.84	285.88	6,127.1	181.6	-638.6	-181.6	0.00	0.00	
6,218.4	12.84	285.88	6,145.0	182.8	-642.6	-182.8	0.00	0.00	Teepee Buttes
6,300.0	12.84	285.88	6,224.6	187.7	-660.0	-187.7	0.00	0.00	
6,400.0	12.84	285.88	6,322.1	193.8	-681.4	-193.8	0.00	0.00	
6,491.5	12.84	285.88	6,411.3	199.4	-701.0	-199.4	0.00	0.00	Start 10° build @ 6491' MD
6,500.0	12.64	282.15	6,419.6	199.8	-702.8	-199.8	10.00	-2.37	
6,600.0	14.36	238.91	6,517.0	195.7	-724.1	-195.7	10.00	1.72	
6,700.0	21.21	214.42	6,612.3	174.3	-745.0	-174.3	10.00	6.84	
6,800.0	29.83	202.49	6,702.6	136.3	-764.8	-136.3	10.00	8.62	
6,900.0	39.07	195.67	6,785.0	82.9	-782.9	-82.9	10.00	9.24	
7,000.0	48.57	191.16	6,857.0	15.6	-798.7	-15.6	10.00	9.50	
7,076.8	55.96	188.52	6,904.0	-44.2	-809.0	44.2	10.00	9.62	Sharon Springs
7,100.0	58.21	187.81	6,916.6	-63.5	-811.8	63.5	10.00	9.67	
7,122.3	60.37	187.17	6,928.0	-82.5	-814.3	82.5	10.00	9.68	Niobrara
7,200.0	67.91	185.11	6,961.9	-152.0	-821.7	152.0	10.00	9.71	
7,211.2	69.01	184.83	6,966.0	-162.4	-822.6	162.4	10.00	9.73	B Chalk
7,300.0	77.66	182.75	6,991.4	-247.2	-828.2	247.2	10.00	9.75	
7,400.0	87.42	180.57	7,004.4	-346.1	-831.0	346.1	10.00	9.76	
7,426.4	90.00	180.00	7,005.0	-372.5	-831.1	372.5	10.00	9.77	Landing Pt @ 7426' MD; 90° - ICP
7,500.0	90.00	180.00	7,005.0	-446.1	-831.1	446.1	0.00	0.00	
7,600.0	90.00	180.00	7,005.0	-546.1	-831.1	546.1	0.00	0.00	
7,700.0	90.00	180.00	7,005.0	-646.1	-831.1	646.1	0.00	0.00	
7,800.0	90.00	180.00	7,005.0	-746.1	-831.1	746.1	0.00	0.00	
7,900.0	90.00	180.00	7,005.0	-846.1	-831.1	846.1	0.00	0.00	
8,000.0	90.00	180.00	7,005.0	-946.1	-831.1	946.1	0.00	0.00	
8,100.0	90.00	180.00	7,005.0	-1,046.1	-831.1	1,046.1	0.00	0.00	
8,200.0	90.00	180.00	7,005.0	-1,146.1	-831.1	1,146.1	0.00	0.00	
8,300.0	90.00	180.00	7,005.0	-1,246.1	-831.1	1,246.1	0.00	0.00	
8,400.0	90.00	180.00	7,005.0	-1,346.1	-831.1	1,346.1	0.00	0.00	
8,500.0	90.00	180.00	7,005.0	-1,446.1	-831.1	1,446.1	0.00	0.00	
8,600.0	90.00	180.00	7,005.0	-1,546.1	-831.1	1,546.1	0.00	0.00	
8,700.0	90.00	180.00	7,005.0	-1,646.1	-831.1	1,646.1	0.00	0.00	
8,800.0	90.00	180.00	7,005.0	-1,746.1	-831.1	1,746.1	0.00	0.00	
8,900.0	90.00	180.00	7,005.0	-1,846.1	-831.1	1,846.1	0.00	0.00	
9,000.0	90.00	180.00	7,005.0	-1,946.1	-831.1	1,946.1	0.00	0.00	
9,100.0	90.00	180.00	7,005.0	-2,046.1	-831.1	2,046.1	0.00	0.00	
9,200.0	90.00	180.00	7,005.0	-2,146.1	-831.1	2,146.1	0.00	0.00	
9,300.0	90.00	180.00	7,005.0	-2,246.1	-831.1	2,246.1	0.00	0.00	

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Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 1A-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	-2,346.1	-831.1	2,346.1	0.00	0.00	
9,500.0	90.00	180.00	7,005.0	-2,446.1	-831.1	2,446.1	0.00	0.00	
9,600.0	90.00	180.00	7,005.0	-2,546.1	-831.1	2,546.1	0.00	0.00	
9,700.0	90.00	180.00	7,005.0	-2,646.1	-831.1	2,646.1	0.00	0.00	
9,800.0	90.00	180.00	7,005.0	-2,746.1	-831.1	2,746.1	0.00	0.00	
9,900.0	90.00	180.00	7,005.0	-2,846.1	-831.1	2,846.1	0.00	0.00	
10,000.0	90.00	180.00	7,005.0	-2,946.1	-831.1	2,946.1	0.00	0.00	
10,100.0	90.00	180.00	7,005.0	-3,046.1	-831.1	3,046.1	0.00	0.00	
10,200.0	90.00	180.00	7,005.0	-3,146.1	-831.1	3,146.1	0.00	0.00	
10,300.0	90.00	180.00	7,005.0	-3,246.1	-831.1	3,246.1	0.00	0.00	
10,400.0	90.00	180.00	7,005.0	-3,346.1	-831.1	3,346.1	0.00	0.00	
10,500.0	90.00	180.00	7,005.0	-3,446.1	-831.1	3,446.1	0.00	0.00	
10,600.0	90.00	180.00	7,005.0	-3,546.1	-831.1	3,546.1	0.00	0.00	
10,700.0	90.00	180.00	7,005.0	-3,646.1	-831.1	3,646.1	0.00	0.00	
10,800.0	90.00	180.00	7,005.0	-3,746.1	-831.1	3,746.1	0.00	0.00	
10,900.0	90.00	180.00	7,005.0	-3,846.1	-831.1	3,846.1	0.00	0.00	
11,000.0	90.00	180.00	7,005.0	-3,946.1	-831.1	3,946.1	0.00	0.00	
11,100.0	90.00	180.00	7,005.0	-4,046.1	-831.1	4,046.1	0.00	0.00	
11,200.0	90.00	180.00	7,005.0	-4,146.1	-831.1	4,146.1	0.00	0.00	
11,300.0	90.00	180.00	7,005.0	-4,246.1	-831.1	4,246.1	0.00	0.00	
11,400.0	90.00	180.00	7,005.0	-4,346.1	-831.1	4,346.1	0.00	0.00	
11,500.0	90.00	180.00	7,005.0	-4,446.1	-831.1	4,446.1	0.00	0.00	
11,596.4	90.00	180.00	7,005.0	-4,542.5	-831.1	4,542.5	0.00	0.00	TD at 11596.4 - Flanigan 1A-6H PBHL

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Flanigan 1A-6H PBHL - plan hits target center - Point	0.00	0.00	7,005.0	-4,542.5	-831.1	1,271,281.02	3,253,339.69	40.074500	-104.594730

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
7,426.4	7,005.0	ICP	0.000	0.000

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 1A-6H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,446.0	4,417.0	Sussex			
4,701.4	4,666.0	Sussex Marker			
5,033.7	4,990.0	Shannon			
6,218.4	6,145.0	Teepee Buttes			
7,076.8	6,904.0	Sharon Springs			
7,122.3	6,928.0	Niobrara			
7,211.2	6,966.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
3,000.0	3,000.0	0.0	0.0	KOP @ 3000'
3,428.1	3,424.5	13.1	-46.0	EOB; Inc=12.84°
6,491.5	6,411.3	199.4	-701.0	Start 10° build @ 6491' MD
7,426.4	7,005.0	-372.5	-831.1	Landing Pt @ 7426' MD; 90°
11,596.4	7,005.0	-4,542.5	-831.1	TD at 11596.4

EnCana Oil & Gas (USA) Inc

DJ Wattenberg
NWNE S6-T1N-R64W (Flanigan)
Flanigan 1A-6H
Hz
Plan #1

Anticollision Report

25 April, 2012

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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	11,596.4	Plan #1 (Hz)	MWD	Geolink MWD

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
NWNE S6-T1N-R64W (Flanigan)						
Flanigan #1 (Existing) - Existing - Existing						Out of range
Flanigan 1B-6H - Hz - Plan #1	3,000.0	3,019.0	28.0	17.5	2.675	CC, ES, SF
Flanigan 1C-6H - Hz - Plan #1	3,000.0	3,019.0	876.4	865.9	83.786	CC, ES
Flanigan 1C-6H - Hz - Plan #1	3,700.0	3,708.6	979.9	967.1	76.918	SF
Flanigan 1D-6H - Hz - Plan #1	3,000.0	3,019.0	901.7	891.2	86.205	CC, ES
Flanigan 1D-6H - Hz - Plan #1	3,600.0	3,611.1	983.7	971.4	79.411	SF
Flanigan 2A-6H - Hz - Plan #1						Out of range
Flanigan 2B-6H - Hz - Plan #1	7,432.0	7,371.4	721.6	692.9	25.194	CC
Flanigan 2B-6H - Hz - Plan #1	11,596.4	11,538.4	721.8	559.4	4.444	ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	19.0	19.0	0.0	0.0	89.99	0.0	28.0	28.0				
100.0	100.0	119.0	119.0	0.2	0.2	89.99	0.0	28.0	28.0	27.6	0.34	83.063	
200.0	200.0	219.0	219.0	0.3	0.4	89.99	0.0	28.0	28.0	27.3	0.69	40.792	
300.0	300.0	319.0	319.0	0.5	0.5	89.99	0.0	28.0	28.0	26.9	1.03	27.034	
400.0	400.0	419.0	419.0	0.7	0.7	89.99	0.0	28.0	28.0	26.6	1.38	20.216	
500.0	500.0	519.0	519.0	0.8	0.9	89.99	0.0	28.0	28.0	26.2	1.73	16.144	
600.0	600.0	619.0	619.0	1.0	1.1	89.99	0.0	28.0	28.0	25.9	2.08	13.438	
700.0	700.0	719.0	719.0	1.2	1.2	89.99	0.0	28.0	28.0	25.5	2.43	11.508	
800.0	800.0	819.0	819.0	1.4	1.4	89.99	0.0	28.0	28.0	25.2	2.78	10.064	
900.0	900.0	919.0	919.0	1.5	1.6	89.99	0.0	28.0	28.0	24.9	3.13	8.941	
1,000.0	1,000.0	1,019.0	1,019.0	1.7	1.8	89.99	0.0	28.0	28.0	24.5	3.48	8.044	
1,100.0	1,100.0	1,119.0	1,119.0	1.9	1.9	89.99	0.0	28.0	28.0	24.2	3.83	7.310	
1,200.0	1,200.0	1,219.0	1,219.0	2.1	2.1	89.99	0.0	28.0	28.0	23.8	4.18	6.699	
1,300.0	1,300.0	1,319.0	1,319.0	2.2	2.3	89.99	0.0	28.0	28.0	23.5	4.53	6.182	
1,400.0	1,400.0	1,419.0	1,419.0	2.4	2.5	89.99	0.0	28.0	28.0	23.1	4.87	5.740	
1,500.0	1,500.0	1,519.0	1,519.0	2.6	2.6	89.99	0.0	28.0	28.0	22.8	5.22	5.356	
1,600.0	1,600.0	1,619.0	1,619.0	2.8	2.8	89.99	0.0	28.0	28.0	22.4	5.57	5.021	
1,700.0	1,700.0	1,719.0	1,719.0	2.9	3.0	89.99	0.0	28.0	28.0	22.1	5.92	4.725	
1,800.0	1,800.0	1,819.0	1,819.0	3.1	3.2	89.99	0.0	28.0	28.0	21.7	6.27	4.462	
1,900.0	1,900.0	1,919.0	1,919.0	3.3	3.3	89.99	0.0	28.0	28.0	21.4	6.62	4.227	
2,000.0	2,000.0	2,019.0	2,019.0	3.5	3.5	89.99	0.0	28.0	28.0	21.0	6.97	4.015	
2,100.0	2,100.0	2,119.0	2,119.0	3.6	3.7	89.99	0.0	28.0	28.0	20.7	7.32	3.823	
2,200.0	2,200.0	2,219.0	2,219.0	3.8	3.9	89.99	0.0	28.0	28.0	20.3	7.67	3.649	
2,300.0	2,300.0	2,319.0	2,319.0	4.0	4.0	89.99	0.0	28.0	28.0	20.0	8.02	3.490	
2,400.0	2,400.0	2,419.0	2,419.0	4.2	4.2	89.99	0.0	28.0	28.0	19.6	8.37	3.345	
2,500.0	2,500.0	2,519.0	2,519.0	4.3	4.4	89.99	0.0	28.0	28.0	19.3	8.71	3.211	
2,600.0	2,600.0	2,619.0	2,619.0	4.5	4.5	89.99	0.0	28.0	28.0	18.9	9.06	3.087	
2,700.0	2,700.0	2,719.0	2,719.0	4.7	4.7	89.99	0.0	28.0	28.0	18.6	9.41	2.973	
2,800.0	2,800.0	2,819.0	2,819.0	4.9	4.9	89.99	0.0	28.0	28.0	18.2	9.76	2.866	
2,900.0	2,900.0	2,919.0	2,919.0	5.0	5.1	89.99	0.0	28.0	28.0	17.9	10.11	2.767	
3,000.0	3,000.0	3,019.0	3,019.0	5.2	5.2	89.99	0.0	28.0	28.0	17.5	10.46	2.675	CC, ES, SF
3,100.0	3,100.0	3,119.0	3,119.0	5.4	5.4	165.44	0.0	28.0	30.5	19.7	10.80	2.825	
3,200.0	3,199.6	3,218.6	3,218.6	5.6	5.6	168.36	0.0	28.0	38.2	27.0	11.12	3.431	
3,300.0	3,298.8	3,317.8	3,317.8	5.8	5.8	171.26	0.0	28.0	51.0	39.6	11.42	4.468	
3,400.0	3,397.1	3,416.1	3,416.1	6.0	5.9	173.49	0.0	28.0	69.1	57.4	11.69	5.909	
3,500.0	3,494.6	3,513.6	3,513.6	6.2	6.1	175.05	0.0	28.0	91.0	79.0	12.01	7.577	
3,600.0	3,592.1	3,611.1	3,611.1	6.5	6.3	176.02	0.0	28.0	113.2	100.8	12.35	9.160	
3,700.0	3,689.6	3,708.6	3,708.6	6.8	6.5	176.67	0.0	28.0	135.3	122.7	12.70	10.659	
3,800.0	3,787.1	3,806.1	3,806.1	7.1	6.6	177.14	0.0	28.0	157.5	144.5	13.04	12.080	
3,900.0	3,884.6	3,903.6	3,903.6	7.4	6.8	177.50	0.0	28.0	179.8	166.4	13.39	13.428	
4,000.0	3,982.1	4,001.1	4,001.1	7.7	7.0	177.77	0.0	28.0	202.0	188.2	13.73	14.710	
4,100.0	4,079.6	4,098.6	4,098.6	8.0	7.1	177.99	0.0	28.0	224.2	210.1	14.07	15.928	
4,200.0	4,177.1	4,196.1	4,196.1	8.4	7.3	178.17	0.0	28.0	246.4	232.0	14.42	17.089	
4,300.0	4,274.6	4,293.6	4,293.6	8.7	7.5	178.32	0.0	28.0	268.6	253.9	14.76	18.196	
4,400.0	4,372.1	4,391.1	4,391.1	9.1	7.6	178.45	0.0	28.0	290.8	275.7	15.11	19.253	
4,500.0	4,469.6	4,488.6	4,488.6	9.4	7.8	178.56	0.0	28.0	313.1	297.6	15.45	20.263	
4,600.0	4,567.1	4,586.1	4,586.1	9.8	8.0	178.66	0.0	28.0	335.3	319.5	15.79	21.229	
4,700.0	4,664.6	4,683.6	4,683.6	10.2	8.2	178.74	0.0	28.0	357.5	341.4	16.14	22.153	
4,800.0	4,762.1	4,781.1	4,781.1	10.6	8.3	178.81	0.0	28.0	379.7	363.2	16.48	23.040	
4,900.0	4,859.6	4,878.6	4,878.6	11.0	8.5	178.88	0.0	28.0	402.0	385.1	16.83	23.890	
5,000.0	4,957.1	4,976.1	4,976.1	11.3	8.7	178.94	0.0	28.0	424.2	407.0	17.17	24.706	
5,100.0	5,054.6	5,086.7	5,086.7	11.7	8.9	178.80	1.8	27.1	445.3	427.8	17.54	25.395	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,200.0	5,152.1	5,202.8	5,202.4	12.1	9.1	178.03	9.7	23.3	462.8	444.9	17.92	25.827	
5,300.0	5,249.6	5,319.5	5,318.0	12.5	9.3	176.65	24.0	16.4	476.5	458.2	18.32	26.016	
5,400.0	5,347.1	5,419.1	5,416.1	12.9	9.5	175.24	39.3	9.2	488.4	469.7	18.70	26.123	
5,500.0	5,444.6	5,517.6	5,513.3	13.3	9.7	173.90	54.4	1.9	500.6	481.5	19.09	26.225	
5,600.0	5,542.1	5,616.2	5,610.4	13.7	9.9	172.62	69.4	-5.3	513.0	493.5	19.49	26.320	
5,700.0	5,639.6	5,714.8	5,707.6	14.1	10.1	171.41	84.5	-12.5	525.7	505.8	19.91	26.407	
5,800.0	5,737.1	5,813.4	5,804.7	14.5	10.3	170.25	99.6	-19.8	538.6	518.3	20.34	26.484	
5,900.0	5,834.6	5,912.0	5,901.9	14.9	10.6	169.15	114.7	-27.0	551.7	531.0	20.78	26.553	
6,000.0	5,932.1	6,010.6	5,999.1	15.3	10.8	168.10	129.8	-34.3	565.1	543.8	21.23	26.613	
6,100.0	6,029.6	6,109.1	6,096.2	15.8	11.0	167.10	144.9	-41.5	578.5	556.8	21.70	26.664	
6,200.0	6,127.1	6,207.7	6,193.4	16.2	11.3	166.14	159.9	-48.7	592.2	570.0	22.17	26.707	
6,300.0	6,224.6	6,306.3	6,290.5	16.6	11.5	165.23	175.0	-56.0	606.0	583.3	22.66	26.743	
6,400.0	6,322.1	6,404.5	6,387.5	17.0	11.8	164.50	188.6	-63.2	620.0	596.8	23.13	26.803	
6,500.0	6,419.6	6,502.0	6,484.6	17.4	11.9	168.83	188.1	-70.4	634.1	610.7	23.42	27.079	
6,600.0	6,517.0	6,597.1	6,577.9	17.8	12.0	-146.48	171.8	-77.4	648.6	625.1	23.47	27.634	
6,700.0	6,612.3	6,690.5	6,665.7	18.1	12.1	-120.72	141.0	-83.9	662.9	639.4	23.53	28.171	
6,800.0	6,702.6	6,782.4	6,746.1	18.3	12.1	-107.78	97.1	-89.9	676.5	652.8	23.69	28.562	
6,900.0	6,785.0	6,873.2	6,817.7	18.6	12.2	-100.28	41.7	-95.2	689.1	665.1	24.00	28.708	
7,000.0	6,857.0	6,963.0	6,879.1	18.9	12.4	-95.46	-23.7	-99.8	700.0	675.5	24.51	28.558	
7,100.0	6,916.6	7,050.0	6,928.0	19.2	12.7	-92.24	-95.3	-103.4	709.1	683.9	25.23	28.107	
7,200.0	6,961.9	7,141.2	6,967.2	19.6	13.1	-90.13	-177.6	-106.3	715.9	689.8	26.20	27.329	
7,300.0	6,991.4	7,229.9	6,992.3	20.1	13.7	-88.92	-262.5	-108.2	720.4	693.0	27.37	26.318	
7,400.0	7,004.4	7,318.5	7,004.1	20.7	14.5	-88.48	-350.2	-109.1	722.2	693.5	28.74	25.127	
7,500.0	7,005.0	7,414.4	7,005.0	21.4	15.5	-88.49	-446.1	-109.1	722.3	691.6	30.64	23.570	
7,600.0	7,005.0	7,514.4	7,005.0	22.2	16.6	-88.49	-546.1	-109.1	722.3	689.3	32.91	21.944	
7,700.0	7,005.0	7,614.4	7,005.0	23.1	17.8	-88.49	-646.1	-109.1	722.3	686.9	35.39	20.410	
7,800.0	7,005.0	7,714.4	7,005.0	24.2	19.1	-88.49	-746.1	-109.1	722.3	684.2	38.02	18.995	
7,900.0	7,005.0	7,814.4	7,005.0	25.3	20.5	-88.49	-846.1	-109.1	722.3	681.5	40.79	17.706	
8,000.0	7,005.0	7,914.4	7,005.0	26.4	21.9	-88.49	-946.1	-109.1	722.3	678.6	43.67	16.540	
8,100.0	7,005.0	8,014.4	7,005.0	27.7	23.4	-88.49	-1,046.1	-109.1	722.3	675.6	46.63	15.490	
8,200.0	7,005.0	8,114.4	7,005.0	28.9	24.9	-88.49	-1,146.1	-109.1	722.3	672.6	49.66	14.544	
8,300.0	7,005.0	8,214.4	7,005.0	30.3	26.5	-88.49	-1,246.1	-109.1	722.3	669.5	52.75	13.692	
8,400.0	7,005.0	8,314.4	7,005.0	31.7	28.0	-88.49	-1,346.1	-109.1	722.3	666.4	55.89	12.923	
8,500.0	7,005.0	8,414.4	7,005.0	33.1	29.6	-88.49	-1,446.1	-109.1	722.3	663.2	59.07	12.227	
8,600.0	7,005.0	8,514.4	7,005.0	34.5	31.2	-88.49	-1,546.1	-109.1	722.3	660.0	62.29	11.595	
8,700.0	7,005.0	8,614.4	7,005.0	36.0	32.8	-88.49	-1,646.1	-109.1	722.3	656.7	65.54	11.021	
8,800.0	7,005.0	8,714.4	7,005.0	37.5	34.5	-88.49	-1,746.1	-109.1	722.3	653.4	68.81	10.497	
8,900.0	7,005.0	8,814.4	7,005.0	39.0	36.1	-88.49	-1,846.1	-109.1	722.3	650.2	72.10	10.017	
9,000.0	7,005.0	8,914.4	7,005.0	40.5	37.8	-88.49	-1,946.1	-109.1	722.3	646.8	75.41	9.577	
9,100.0	7,005.0	9,014.4	7,005.0	42.1	39.4	-88.49	-2,046.1	-109.1	722.3	643.5	78.74	9.172	
9,200.0	7,005.0	9,114.4	7,005.0	43.7	41.1	-88.49	-2,146.1	-109.1	722.3	640.2	82.09	8.798	
9,300.0	7,005.0	9,214.4	7,005.0	45.2	42.8	-88.49	-2,246.1	-109.1	722.3	636.8	85.45	8.453	
9,400.0	7,005.0	9,314.4	7,005.0	46.8	44.5	-88.49	-2,346.1	-109.1	722.3	633.4	88.82	8.132	
9,500.0	7,005.0	9,414.4	7,005.0	48.4	46.1	-88.49	-2,446.1	-109.1	722.3	630.1	92.20	7.834	
9,600.0	7,005.0	9,514.4	7,005.0	50.1	47.8	-88.49	-2,546.1	-109.1	722.3	626.7	95.58	7.556	
9,700.0	7,005.0	9,614.4	7,005.0	51.7	49.5	-88.49	-2,646.1	-109.1	722.3	623.3	98.98	7.297	
9,800.0	7,005.0	9,714.4	7,005.0	53.3	51.2	-88.49	-2,746.1	-109.1	722.3	619.9	102.39	7.054	
9,900.0	7,005.0	9,814.4	7,005.0	55.0	52.9	-88.49	-2,846.1	-109.1	722.3	616.5	105.80	6.827	
10,000.0	7,005.0	9,914.4	7,005.0	56.6	54.6	-88.49	-2,946.1	-109.1	722.3	613.0	109.21	6.613	
10,100.0	7,005.0	10,014.4	7,005.0	58.3	56.4	-88.49	-3,046.1	-109.1	722.3	609.6	112.64	6.412	
10,200.0	7,005.0	10,114.4	7,005.0	59.9	58.1	-88.49	-3,146.1	-109.1	722.3	606.2	116.06	6.223	
10,300.0	7,005.0	10,214.4	7,005.0	61.6	59.8	-88.49	-3,246.1	-109.1	722.3	602.8	119.50	6.044	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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

Survey Program: 0-MWD

Offset Site Error: 0.0 ft

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,005.0	10,314.4	7,005.0	63.3	61.5	-88.49	-3,346.1	-109.1	722.3	599.3	122.93	5.875	
10,500.0	7,005.0	10,414.4	7,005.0	64.9	63.2	-88.49	-3,446.1	-109.1	722.3	595.9	126.37	5.715	
10,600.0	7,005.0	10,514.4	7,005.0	66.6	64.9	-88.49	-3,546.1	-109.1	722.3	592.4	129.82	5.564	
10,700.0	7,005.0	10,614.4	7,005.0	68.3	66.7	-88.49	-3,646.1	-109.1	722.3	589.0	133.26	5.420	
10,800.0	7,005.0	10,714.4	7,005.0	70.0	68.4	-88.49	-3,746.1	-109.1	722.3	585.5	136.71	5.283	
10,900.0	7,005.0	10,814.4	7,005.0	71.7	70.1	-88.49	-3,846.1	-109.1	722.3	582.1	140.17	5.153	
11,000.0	7,005.0	10,914.4	7,005.0	73.4	71.8	-88.49	-3,946.1	-109.1	722.3	578.6	143.62	5.029	
11,100.0	7,005.0	11,014.4	7,005.0	75.0	73.6	-88.49	-4,046.1	-109.1	722.3	575.2	147.08	4.911	
11,200.0	7,005.0	11,114.4	7,005.0	76.7	75.3	-88.49	-4,146.1	-109.1	722.3	571.7	150.54	4.798	
11,300.0	7,005.0	11,214.4	7,005.0	78.4	77.0	-88.49	-4,246.1	-109.1	722.3	568.3	154.00	4.690	
11,400.0	7,005.0	11,314.4	7,005.0	80.1	78.8	-88.49	-4,346.1	-109.1	722.3	564.8	157.47	4.587	
11,500.0	7,005.0	11,414.4	7,005.0	81.9	80.5	-88.49	-4,446.1	-109.1	722.3	561.3	160.93	4.488	
11,596.4	7,005.0	11,510.8	7,005.0	83.5	82.2	-88.49	-4,542.5	-109.1	722.3	558.0	164.28	4.397	

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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 1C-6H - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	19.0	19.0	0.0	0.0	87.86	32.8	875.8	876.4				
100.0	100.0	119.0	119.0	0.2	0.2	87.86	32.8	875.8	876.4	876.0	0.34	2,601.691	
200.0	200.0	219.0	219.0	0.3	0.4	87.86	32.8	875.8	876.4	875.7	0.69	1,277.676	
300.0	300.0	319.0	319.0	0.5	0.5	87.86	32.8	875.8	876.4	875.3	1.03	846.757	
400.0	400.0	419.0	419.0	0.7	0.7	87.86	32.8	875.8	876.4	875.0	1.38	633.199	
500.0	500.0	519.0	519.0	0.8	0.9	87.86	32.8	875.8	876.4	874.6	1.73	505.666	
600.0	600.0	619.0	619.0	1.0	1.1	87.86	32.8	875.8	876.4	874.3	2.08	420.894	
700.0	700.0	719.0	719.0	1.2	1.2	87.86	32.8	875.8	876.4	873.9	2.43	360.464	
800.0	800.0	819.0	819.0	1.4	1.4	87.86	32.8	875.8	876.4	873.6	2.78	315.208	
900.0	900.0	919.0	919.0	1.5	1.6	87.86	32.8	875.8	876.4	873.2	3.13	280.048	
1,000.0	1,000.0	1,019.0	1,019.0	1.7	1.8	87.86	32.8	875.8	876.4	872.9	3.48	251.945	
1,100.0	1,100.0	1,119.0	1,119.0	1.9	1.9	87.86	32.8	875.8	876.4	872.5	3.83	228.968	
1,200.0	1,200.0	1,219.0	1,219.0	2.1	2.1	87.86	32.8	875.8	876.4	872.2	4.18	209.832	
1,300.0	1,300.0	1,319.0	1,319.0	2.2	2.3	87.86	32.8	875.8	876.4	871.9	4.53	193.647	
1,400.0	1,400.0	1,419.0	1,419.0	2.4	2.5	87.86	32.8	875.8	876.4	871.5	4.87	179.780	
1,500.0	1,500.0	1,519.0	1,519.0	2.6	2.6	87.86	32.8	875.8	876.4	871.2	5.22	167.767	
1,600.0	1,600.0	1,619.0	1,619.0	2.8	2.8	87.86	32.8	875.8	876.4	870.8	5.57	157.259	
1,700.0	1,700.0	1,719.0	1,719.0	2.9	3.0	87.86	32.8	875.8	876.4	870.5	5.92	147.989	
1,800.0	1,800.0	1,819.0	1,819.0	3.1	3.2	87.86	32.8	875.8	876.4	870.1	6.27	139.751	
1,900.0	1,900.0	1,919.0	1,919.0	3.3	3.3	87.86	32.8	875.8	876.4	869.8	6.62	132.383	
2,000.0	2,000.0	2,019.0	2,019.0	3.5	3.5	87.86	32.8	875.8	876.4	869.4	6.97	125.752	
2,100.0	2,100.0	2,119.0	2,119.0	3.6	3.7	87.86	32.8	875.8	876.4	869.1	7.32	119.754	
2,200.0	2,200.0	2,219.0	2,219.0	3.8	3.9	87.86	32.8	875.8	876.4	868.7	7.67	114.302	
2,300.0	2,300.0	2,319.0	2,319.0	4.0	4.0	87.86	32.8	875.8	876.4	868.4	8.02	109.324	
2,400.0	2,400.0	2,419.0	2,419.0	4.2	4.2	87.86	32.8	875.8	876.4	868.0	8.37	104.763	
2,500.0	2,500.0	2,519.0	2,519.0	4.3	4.4	87.86	32.8	875.8	876.4	867.7	8.71	100.566	
2,600.0	2,600.0	2,619.0	2,619.0	4.5	4.5	87.86	32.8	875.8	876.4	867.3	9.06	96.693	
2,700.0	2,700.0	2,719.0	2,719.0	4.7	4.7	87.86	32.8	875.8	876.4	867.0	9.41	93.107	
2,800.0	2,800.0	2,819.0	2,819.0	4.9	4.9	87.86	32.8	875.8	876.4	866.6	9.76	89.778	
2,900.0	2,900.0	2,919.0	2,919.0	5.0	5.1	87.86	32.8	875.8	876.4	866.3	10.11	86.678	
3,000.0	3,000.0	3,019.0	3,019.0	5.2	5.2	87.86	32.8	875.8	876.4	865.9	10.46	83.786	CC, ES
3,100.0	3,100.0	3,119.0	3,119.0	5.4	5.4	162.01	32.8	875.8	878.9	868.1	10.80	81.377	
3,200.0	3,199.6	3,218.6	3,218.6	5.6	5.6	162.10	32.8	875.8	886.3	875.2	11.12	79.694	
3,300.0	3,298.8	3,317.8	3,317.8	5.8	5.8	162.24	32.8	875.8	898.8	887.3	11.42	78.670	
3,400.0	3,397.1	3,416.1	3,416.1	6.0	5.9	162.42	32.8	875.8	916.2	904.4	11.71	78.249	
3,500.0	3,494.6	3,513.6	3,513.6	6.2	6.1	162.78	32.8	875.8	937.2	925.2	12.04	77.867	
3,600.0	3,592.1	3,611.1	3,611.1	6.5	6.3	163.17	32.8	875.8	958.5	946.1	12.39	77.380	
3,700.0	3,689.6	3,708.6	3,708.6	6.8	6.5	163.55	32.8	875.8	979.9	967.1	12.74	76.918	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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 Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	19.0	19.0	0.0	0.0	87.68	36.4	900.9	901.7				
100.0	100.0	119.0	119.0	0.2	0.2	87.68	36.4	900.9	901.7	901.3	0.34	2,676.813	
200.0	200.0	219.0	219.0	0.3	0.4	87.68	36.4	900.9	901.7	901.0	0.69	1,314.568	
300.0	300.0	319.0	319.0	0.5	0.5	87.68	36.4	900.9	901.7	900.6	1.03	871.206	
400.0	400.0	419.0	419.0	0.7	0.7	87.68	36.4	900.9	901.7	900.3	1.38	651.482	
500.0	500.0	519.0	519.0	0.8	0.9	87.68	36.4	900.9	901.7	899.9	1.73	520.267	
600.0	600.0	619.0	619.0	1.0	1.1	87.68	36.4	900.9	901.7	899.6	2.08	433.047	
700.0	700.0	719.0	719.0	1.2	1.2	87.68	36.4	900.9	901.7	899.3	2.43	370.872	
800.0	800.0	819.0	819.0	1.4	1.4	87.68	36.4	900.9	901.7	898.9	2.78	324.310	
900.0	900.0	919.0	919.0	1.5	1.6	87.68	36.4	900.9	901.7	898.6	3.13	288.135	
1,000.0	1,000.0	1,019.0	1,019.0	1.7	1.8	87.68	36.4	900.9	901.7	898.2	3.48	259.220	
1,100.0	1,100.0	1,119.0	1,119.0	1.9	1.9	87.68	36.4	900.9	901.7	897.9	3.83	235.579	
1,200.0	1,200.0	1,219.0	1,219.0	2.1	2.1	87.68	36.4	900.9	901.7	897.5	4.18	215.890	
1,300.0	1,300.0	1,319.0	1,319.0	2.2	2.3	87.68	36.4	900.9	901.7	897.2	4.53	199.238	
1,400.0	1,400.0	1,419.0	1,419.0	2.4	2.5	87.68	36.4	900.9	901.7	896.8	4.87	184.971	
1,500.0	1,500.0	1,519.0	1,519.0	2.6	2.6	87.68	36.4	900.9	901.7	896.5	5.22	172.611	
1,600.0	1,600.0	1,619.0	1,619.0	2.8	2.8	87.68	36.4	900.9	901.7	896.1	5.57	161.799	
1,700.0	1,700.0	1,719.0	1,719.0	2.9	3.0	87.68	36.4	900.9	901.7	895.8	5.92	152.262	
1,800.0	1,800.0	1,819.0	1,819.0	3.1	3.2	87.68	36.4	900.9	901.7	895.4	6.27	143.787	
1,900.0	1,900.0	1,919.0	1,919.0	3.3	3.3	87.68	36.4	900.9	901.7	895.1	6.62	136.205	
2,000.0	2,000.0	2,019.0	2,019.0	3.5	3.5	87.68	36.4	900.9	901.7	894.7	6.97	129.383	
2,100.0	2,100.0	2,119.0	2,119.0	3.6	3.7	87.68	36.4	900.9	901.7	894.4	7.32	123.211	
2,200.0	2,200.0	2,219.0	2,219.0	3.8	3.9	87.68	36.4	900.9	901.7	894.0	7.67	117.602	
2,300.0	2,300.0	2,319.0	2,319.0	4.0	4.0	87.68	36.4	900.9	901.7	893.7	8.02	112.481	
2,400.0	2,400.0	2,419.0	2,419.0	4.2	4.2	87.68	36.4	900.9	901.7	893.3	8.37	107.787	
2,500.0	2,500.0	2,519.0	2,519.0	4.3	4.4	87.68	36.4	900.9	901.7	893.0	8.71	103.470	
2,600.0	2,600.0	2,619.0	2,619.0	4.5	4.5	87.68	36.4	900.9	901.7	892.6	9.06	99.485	
2,700.0	2,700.0	2,719.0	2,719.0	4.7	4.7	87.68	36.4	900.9	901.7	892.3	9.41	95.796	
2,800.0	2,800.0	2,819.0	2,819.0	4.9	4.9	87.68	36.4	900.9	901.7	891.9	9.76	92.370	
2,900.0	2,900.0	2,919.0	2,919.0	5.0	5.1	87.68	36.4	900.9	901.7	891.6	10.11	89.181	
3,000.0	3,000.0	3,019.0	3,019.0	5.2	5.2	87.68	36.4	900.9	901.7	891.2	10.46	86.205	CC, ES
3,100.0	3,100.0	3,119.0	3,119.0	5.4	5.4	161.83	36.4	900.9	904.2	893.4	10.80	83.720	
3,200.0	3,199.6	3,218.6	3,218.6	5.6	5.6	161.92	36.4	900.9	911.6	900.5	11.12	81.968	
3,300.0	3,298.8	3,317.8	3,317.8	5.8	5.8	162.05	36.4	900.9	924.0	912.6	11.42	80.882	
3,400.0	3,397.1	3,416.1	3,416.1	6.0	5.9	162.23	36.4	900.9	941.4	929.7	11.71	80.404	
3,500.0	3,494.6	3,513.6	3,513.6	6.2	6.1	162.58	36.4	900.9	962.5	950.4	12.04	79.960	
3,600.0	3,592.1	3,611.1	3,611.1	6.5	6.3	162.97	36.4	900.9	983.7	971.4	12.39	79.411	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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 2B-6H - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
5,800.0	5,737.1	5,740.2	5,676.1	14.5	15.0	-15.36	172.7	-1,550.3	997.4	976.3	21.10	47.262	
5,900.0	5,834.6	5,837.7	5,773.6	14.9	15.1	-15.70	172.7	-1,550.3	975.9	954.5	21.45	45.507	
6,000.0	5,932.1	5,935.2	5,871.1	15.3	15.3	-16.06	172.7	-1,550.3	954.5	932.7	21.79	43.801	
6,100.0	6,029.6	6,032.7	5,968.6	15.8	15.4	-16.44	172.7	-1,550.3	933.1	911.0	22.14	42.143	
6,200.0	6,127.1	6,130.1	6,066.1	16.2	15.5	-16.84	172.7	-1,550.3	911.8	889.3	22.50	40.530	
6,300.0	6,224.6	6,227.6	6,163.6	16.6	15.6	-17.25	172.7	-1,550.3	890.5	867.6	22.85	38.962	
6,400.0	6,322.1	6,325.1	6,261.1	17.0	15.7	-17.68	172.7	-1,550.3	869.2	846.0	23.22	37.437	
6,500.0	6,419.6	6,422.6	6,358.6	17.4	15.8	-14.31	172.7	-1,550.3	848.0	824.4	23.58	35.960	
6,600.0	6,517.0	6,519.2	6,455.1	17.8	16.0	30.24	172.3	-1,550.3	826.5	802.7	23.84	34.677	
6,700.0	6,612.3	6,613.4	6,548.5	18.1	16.0	56.43	160.8	-1,550.3	805.4	781.4	24.03	33.516	
6,800.0	6,702.6	6,709.4	6,640.4	18.3	16.0	70.02	133.5	-1,550.3	785.5	761.3	24.22	32.438	
6,900.0	6,785.0	6,807.5	6,728.4	18.6	15.9	78.35	90.2	-1,550.3	767.5	743.1	24.43	31.421	
7,000.0	6,857.0	6,908.1	6,809.4	18.9	15.9	84.12	30.9	-1,550.3	751.9	727.2	24.70	30.445	
7,100.0	6,916.6	7,011.3	6,880.6	19.2	15.9	88.33	-43.7	-1,550.3	739.3	714.2	25.07	29.485	
7,200.0	6,961.9	7,117.1	6,938.4	19.6	16.1	91.40	-132.1	-1,550.3	729.9	704.2	25.70	28.398	
7,300.0	6,991.4	7,225.4	6,979.8	20.1	16.5	93.49	-232.0	-1,550.3	724.0	697.4	26.66	27.160	
7,400.0	7,004.4	7,335.8	7,001.8	20.7	17.0	94.63	-340.0	-1,550.3	721.7	693.7	28.05	25.734	
7,432.0	7,005.6	7,371.4	7,004.5	20.9	17.3	94.75	-375.5	-1,550.3	721.6	692.9	28.64	25.194	CC
7,500.0	7,005.0	7,442.0	7,005.0	21.4	17.8	94.85	-446.1	-1,550.3	721.8	691.8	29.94	24.107	
7,600.0	7,005.0	7,542.0	7,005.0	22.2	18.6	94.85	-546.1	-1,550.3	721.8	689.7	32.09	22.490	
7,700.0	7,005.0	7,642.0	7,005.0	23.1	19.6	94.85	-646.1	-1,550.3	721.8	687.3	34.47	20.940	
7,800.0	7,005.0	7,742.0	7,005.0	24.2	20.7	94.85	-746.1	-1,550.3	721.8	684.8	37.02	19.496	
7,900.0	7,005.0	7,842.0	7,005.0	25.3	21.8	94.85	-846.1	-1,550.3	721.8	682.1	39.72	18.173	
8,000.0	7,005.0	7,942.0	7,005.0	26.4	23.1	94.85	-946.1	-1,550.3	721.8	679.2	42.53	16.970	
8,100.0	7,005.0	8,042.0	7,005.0	27.7	24.4	94.85	-1,046.1	-1,550.3	721.8	676.3	45.44	15.884	
8,200.0	7,005.0	8,142.0	7,005.0	28.9	25.7	94.85	-1,146.1	-1,550.3	721.8	673.4	48.43	14.904	
8,300.0	7,005.0	8,242.0	7,005.0	30.3	27.1	94.85	-1,246.1	-1,550.3	721.8	670.3	51.48	14.021	
8,400.0	7,005.0	8,342.0	7,005.0	31.7	28.6	94.85	-1,346.1	-1,550.3	721.8	667.2	54.58	13.223	
8,500.0	7,005.0	8,442.0	7,005.0	33.1	30.1	94.85	-1,446.1	-1,550.3	721.8	664.0	57.73	12.502	
8,600.0	7,005.0	8,542.0	7,005.0	34.5	31.6	94.85	-1,546.1	-1,550.3	721.8	660.9	60.92	11.848	
8,700.0	7,005.0	8,642.0	7,005.0	36.0	33.1	94.85	-1,646.1	-1,550.3	721.8	657.6	64.14	11.253	
8,800.0	7,005.0	8,742.0	7,005.0	37.5	34.6	94.85	-1,746.1	-1,550.3	721.8	654.4	67.39	10.711	
8,900.0	7,005.0	8,842.0	7,005.0	39.0	36.2	94.85	-1,846.1	-1,550.4	721.8	651.1	70.66	10.215	
9,000.0	7,005.0	8,942.0	7,005.0	40.5	37.8	94.85	-1,946.1	-1,550.4	721.8	647.8	73.95	9.761	
9,100.0	7,005.0	9,042.0	7,005.0	42.1	39.4	94.85	-2,046.1	-1,550.4	721.8	644.5	77.26	9.342	
9,200.0	7,005.0	9,142.0	7,005.0	43.7	41.0	94.85	-2,146.1	-1,550.4	721.8	641.2	80.58	8.957	
9,300.0	7,005.0	9,242.0	7,005.0	45.2	42.6	94.85	-2,246.1	-1,550.4	721.8	637.9	83.92	8.601	
9,400.0	7,005.0	9,342.0	7,005.0	46.8	44.3	94.85	-2,346.1	-1,550.4	721.8	634.5	87.27	8.270	
9,500.0	7,005.0	9,442.0	7,005.0	48.4	45.9	94.85	-2,446.1	-1,550.4	721.8	631.1	90.64	7.964	
9,600.0	7,005.0	9,542.0	7,005.0	50.1	47.6	94.85	-2,546.1	-1,550.4	721.8	627.8	94.01	7.678	
9,700.0	7,005.0	9,642.0	7,005.0	51.7	49.2	94.85	-2,646.1	-1,550.4	721.8	624.4	97.39	7.411	
9,800.0	7,005.0	9,742.0	7,005.0	53.3	50.9	94.85	-2,746.1	-1,550.4	721.8	621.0	100.78	7.162	
9,900.0	7,005.0	9,842.0	7,005.0	55.0	52.5	94.85	-2,846.1	-1,550.4	721.8	617.6	104.17	6.929	
10,000.0	7,005.0	9,942.0	7,005.0	56.6	54.2	94.85	-2,946.1	-1,550.4	721.8	614.2	107.58	6.710	
10,100.0	7,005.0	10,042.0	7,005.0	58.3	55.9	94.85	-3,046.1	-1,550.4	721.8	610.8	110.98	6.504	
10,200.0	7,005.0	10,142.0	7,005.0	59.9	57.6	94.85	-3,146.1	-1,550.4	721.8	607.4	114.40	6.309	
10,300.0	7,005.0	10,242.0	7,005.0	61.6	59.3	94.85	-3,246.1	-1,550.4	721.8	604.0	117.82	6.126	
10,400.0	7,005.0	10,342.0	7,005.0	63.3	61.0	94.85	-3,346.1	-1,550.4	721.8	600.6	121.24	5.954	
10,500.0	7,005.0	10,442.0	7,005.0	64.9	62.7	94.85	-3,446.1	-1,550.4	721.8	597.1	124.66	5.790	
10,600.0	7,005.0	10,542.0	7,005.0	66.6	64.4	94.85	-3,546.1	-1,550.4	721.8	593.7	128.09	5.635	
10,700.0	7,005.0	10,642.0	7,005.0	68.3	66.1	94.85	-3,646.1	-1,550.4	721.8	590.3	131.53	5.488	
10,800.0	7,005.0	10,742.0	7,005.0	70.0	67.8	94.85	-3,746.1	-1,550.4	721.8	586.8	134.97	5.348	

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

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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 2B-6H - Hz - Plan #1

Offset Site Error: 0.0 ft

Survey Program: 0-MWD

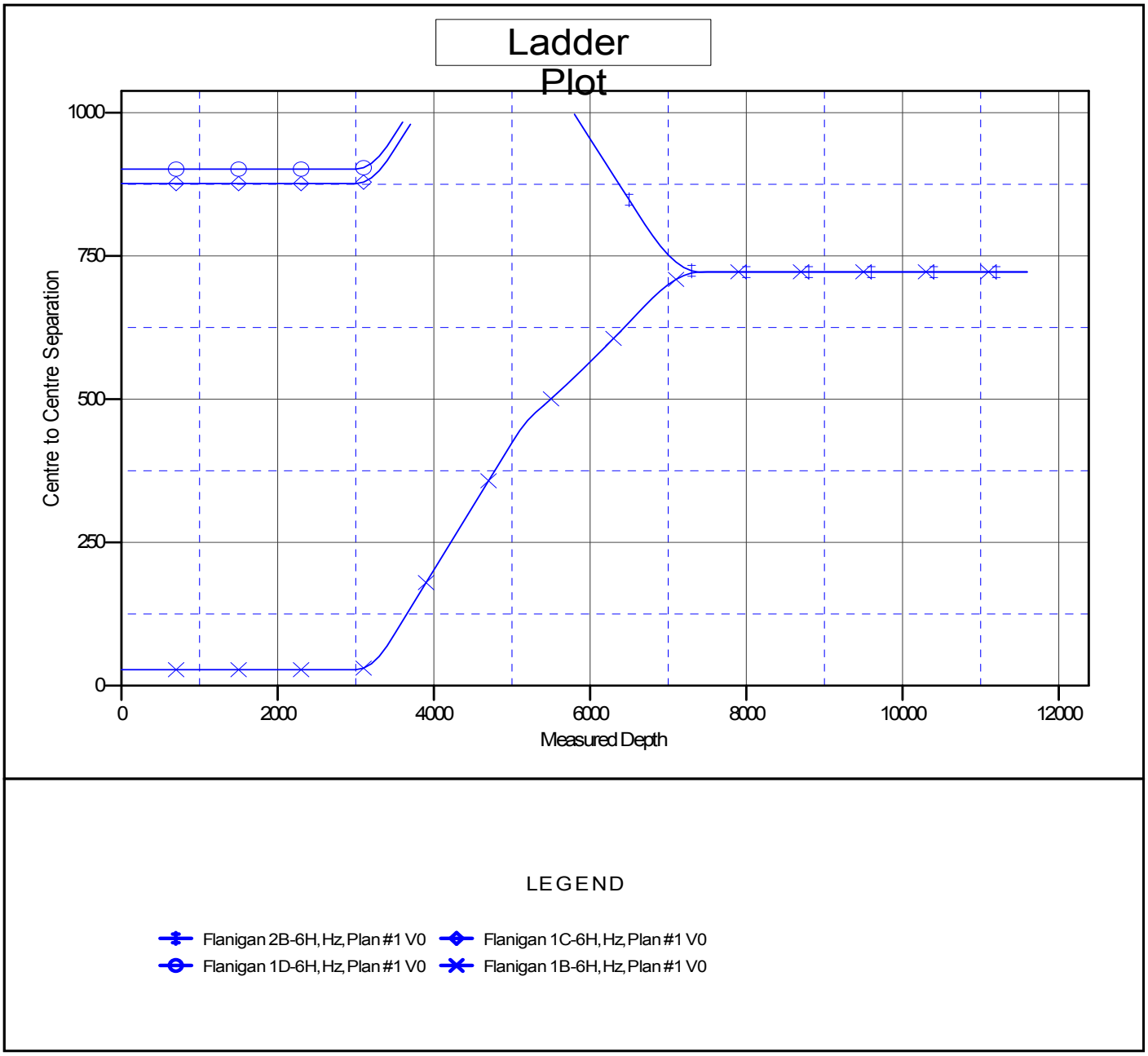
Offset Well Error: 0.0 ft

Reference Measured Depth (ft)	Reference Vertical Depth (ft)	Offset Measured Depth (ft)	Offset Vertical Depth (ft)	Semi Major Axis Reference (ft)	Semi Major Axis Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	Offset Wellbore Centre +E/-W (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,900.0	7,005.0	10,842.0	7,005.0	71.7	69.5	94.85	-3,846.1	-1,550.4	721.8	583.4	138.41	5.215	
11,000.0	7,005.0	10,942.0	7,005.0	73.4	71.2	94.85	-3,946.1	-1,550.4	721.8	579.9	141.85	5.088	
11,100.0	7,005.0	11,042.0	7,005.0	75.0	72.9	94.85	-4,046.1	-1,550.4	721.8	576.5	145.29	4.968	
11,200.0	7,005.0	11,142.0	7,005.0	76.7	74.6	94.85	-4,146.1	-1,550.4	721.8	573.1	148.74	4.853	
11,300.0	7,005.0	11,242.0	7,005.0	78.4	76.3	94.85	-4,246.1	-1,550.4	721.8	569.6	152.19	4.743	
11,400.0	7,005.0	11,342.0	7,005.0	80.1	78.0	94.85	-4,346.1	-1,550.4	721.8	566.1	155.64	4.638	
11,500.0	7,005.0	11,442.0	7,005.0	81.9	79.8	94.85	-4,446.1	-1,550.4	721.8	562.7	159.10	4.537	
11,596.4	7,005.0	11,538.4	7,005.0	83.5	81.4	94.85	-4,542.5	-1,550.4	721.8	559.4	162.43	4.444	ES, SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 1A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 5010.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 1A-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' @ 5010.0ft (Original Well Elev
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

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



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