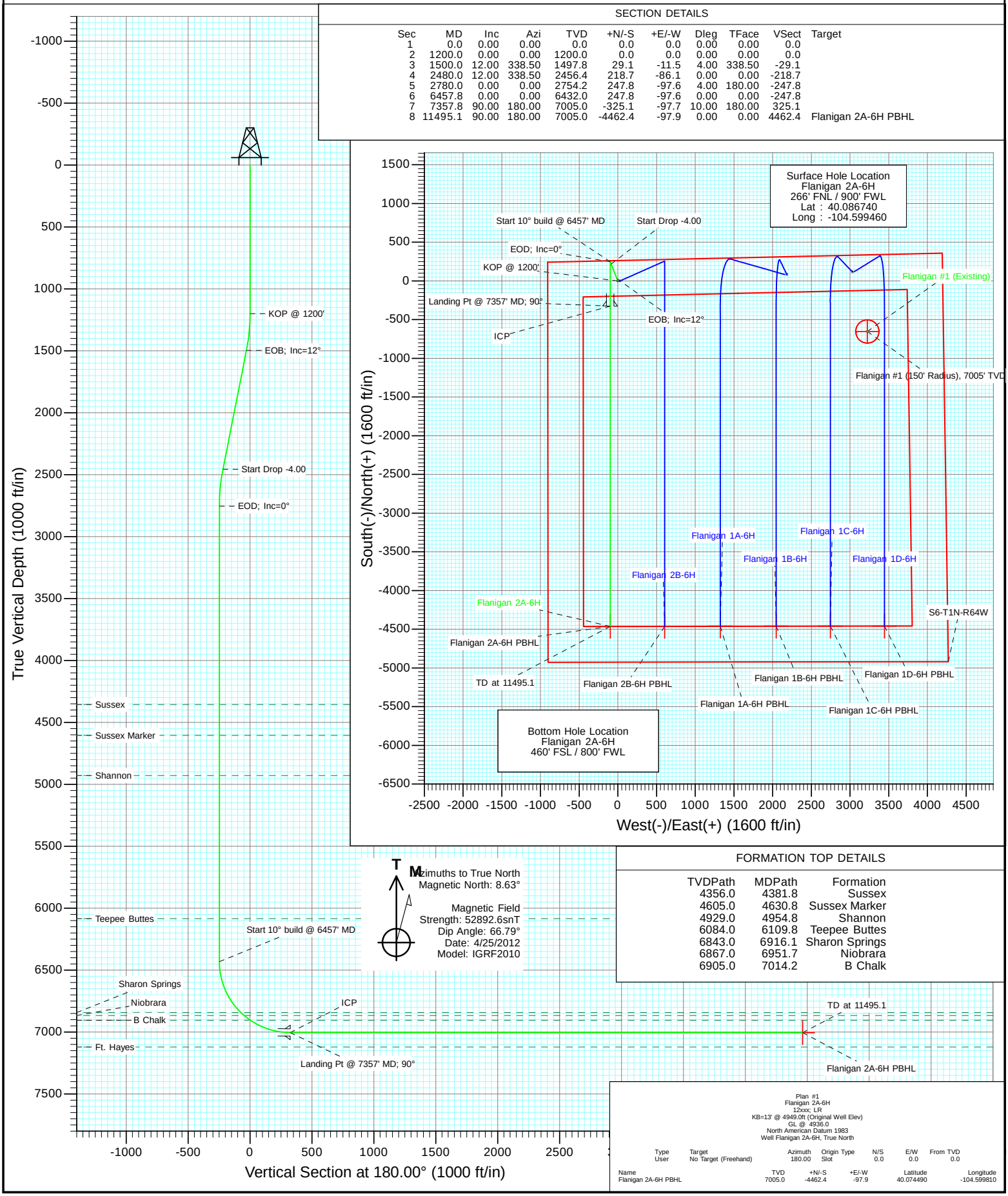
encana natural gas

Project: DJ Wattenberg
Site: NWNE S6-T1N-R64W (Flanigan)
Well: Flanigan 2A-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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1500.0	12.00	338.50	1497.8	29.1	-11.5	4.00	338.50	-29.1	
4	2480.0	12.00	338.50	2456.4	218.7	-86.1	0.00	0.00	-218.7	
5	2780.0	0.00	0.00	2754.2	247.8	-97.6	4.00	180.00	-247.8	
6	6457.8	0.00	0.00	6432.0	247.8	-97.6	0.00	0.00	-247.8	
7	7357.8	90.00	180.00	7005.0	-325.1	-97.7	10.00	180.00	325.1	
8	11495.1	90.00	180.00	7005.0	-4462.4	-97.9	0.00	0.00	4462.4	Flanigan 2A-6H PBHL



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Azimuths to True North
Magnetic North: 8.63°

Magnetic Field
Strength: 52892.6snT
Dip Angle: 66.79°
Date: 4/25/2012
Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4356.0	4381.8	Sussex
4605.0	4630.8	Sussex Marker
4929.0	4954.8	Shannon
6084.0	6109.8	Teepee Buttes
6843.0	6916.1	Sharon Springs
6867.0	6951.7	Niobrara
6905.0	7014.2	B Chalk

Plan #1
Flanigan 2A-6H
12xxx; LR
KB=13' @ 4949.0ft (Original Well Elev)
GL @ 4936.0
North American Datum 1983
Well Flanigan 2A-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 2A-6H PBHL	7005.0	-4462.4	-97.9	40.074490	-104.599810

Planning Report

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Flanigan 2A-6H
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 2A-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 2A-6H

Well Position	**+N/-S**	0.0 ft	**Northing:**	1,275,726.06 ft	**Latitude:**	40.086740
	+E/-W	0.0 ft	**Easting:**	3,251,970.80 ft	**Longitude:**	-104.599460
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,936.0 ft

Wellbore Hz

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/25/2012	8.63	66.79	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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	12.00	338.50	1,497.8	29.1	-11.5	4.00	4.00	0.00	338.50	
2,480.0	12.00	338.50	2,456.4	218.7	-86.1	0.00	0.00	0.00	0.00	
2,780.0	0.00	0.00	2,754.2	247.8	-97.6	4.00	-4.00	0.00	180.00	
6,457.8	0.00	0.00	6,432.0	247.8	-97.6	0.00	0.00	0.00	0.00	
7,357.8	90.00	180.00	7,005.0	-325.1	-97.7	10.00	10.00	0.00	180.00	
11,495.1	90.00	180.00	7,005.0	-4,462.4	-97.9	0.00	0.00	0.00	0.00	Flanigan 2A-6H PBHL

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Flanigan 2A-6H
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Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 2A-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	KOP @ 1200'
1,300.0	4.00	338.50	1,299.9	3.2	-1.3	-3.2	4.00	4.00	
1,400.0	8.00	338.50	1,399.4	13.0	-5.1	-13.0	4.00	4.00	
1,500.0	12.00	338.50	1,497.8	29.1	-11.5	-29.1	4.00	4.00	EOB; Inc=12°
1,600.0	12.00	338.50	1,595.6	48.5	-19.1	-48.5	0.00	0.00	
1,700.0	12.00	338.50	1,693.4	67.8	-26.7	-67.8	0.00	0.00	
1,800.0	12.00	338.50	1,791.3	87.2	-34.3	-87.2	0.00	0.00	
1,900.0	12.00	338.50	1,889.1	106.5	-42.0	-106.5	0.00	0.00	
2,000.0	12.00	338.50	1,986.9	125.8	-49.6	-125.8	0.00	0.00	
2,100.0	12.00	338.50	2,084.7	145.2	-57.2	-145.2	0.00	0.00	
2,200.0	12.00	338.50	2,182.5	164.5	-64.8	-164.5	0.00	0.00	
2,300.0	12.00	338.50	2,280.3	183.9	-72.4	-183.9	0.00	0.00	
2,400.0	12.00	338.50	2,378.1	203.2	-80.1	-203.2	0.00	0.00	
2,480.0	12.00	338.50	2,456.4	218.7	-86.1	-218.7	0.00	0.00	Start Drop -4.00
2,500.0	11.20	338.50	2,476.0	222.4	-87.6	-222.4	4.00	-4.00	
2,600.0	7.20	338.50	2,574.7	237.3	-93.5	-237.3	4.00	-4.00	
2,700.0	3.20	338.50	2,674.2	245.7	-96.8	-245.7	4.00	-4.00	
2,780.0	0.00	0.00	2,754.2	247.8	-97.6	-247.8	4.00	-4.00	EOD; Inc=0°
2,800.0	0.00	0.00	2,774.2	247.8	-97.6	-247.8	0.00	0.00	
2,900.0	0.00	0.00	2,874.2	247.8	-97.6	-247.8	0.00	0.00	
3,000.0	0.00	0.00	2,974.2	247.8	-97.6	-247.8	0.00	0.00	
3,100.0	0.00	0.00	3,074.2	247.8	-97.6	-247.8	0.00	0.00	
3,200.0	0.00	0.00	3,174.2	247.8	-97.6	-247.8	0.00	0.00	
3,300.0	0.00	0.00	3,274.2	247.8	-97.6	-247.8	0.00	0.00	
3,400.0	0.00	0.00	3,374.2	247.8	-97.6	-247.8	0.00	0.00	
3,500.0	0.00	0.00	3,474.2	247.8	-97.6	-247.8	0.00	0.00	
3,600.0	0.00	0.00	3,574.2	247.8	-97.6	-247.8	0.00	0.00	
3,700.0	0.00	0.00	3,674.2	247.8	-97.6	-247.8	0.00	0.00	
3,800.0	0.00	0.00	3,774.2	247.8	-97.6	-247.8	0.00	0.00	
3,900.0	0.00	0.00	3,874.2	247.8	-97.6	-247.8	0.00	0.00	
4,000.0	0.00	0.00	3,974.2	247.8	-97.6	-247.8	0.00	0.00	
4,100.0	0.00	0.00	4,074.2	247.8	-97.6	-247.8	0.00	0.00	
4,200.0	0.00	0.00	4,174.2	247.8	-97.6	-247.8	0.00	0.00	
4,300.0	0.00	0.00	4,274.2	247.8	-97.6	-247.8	0.00	0.00	
4,381.8	0.00	0.00	4,356.0	247.8	-97.6	-247.8	0.00	0.00	Sussex
4,400.0	0.00	0.00	4,374.2	247.8	-97.6	-247.8	0.00	0.00	
4,500.0	0.00	0.00	4,474.2	247.8	-97.6	-247.8	0.00	0.00	
4,600.0	0.00	0.00	4,574.2	247.8	-97.6	-247.8	0.00	0.00	
4,630.8	0.00	0.00	4,605.0	247.8	-97.6	-247.8	0.00	0.00	Sussex Marker
4,700.0	0.00	0.00	4,674.2	247.8	-97.6	-247.8	0.00	0.00	

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Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 2A-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
4,800.0	0.00	0.00	4,774.2	247.8	-97.6	-247.8	0.00	0.00	
4,900.0	0.00	0.00	4,874.2	247.8	-97.6	-247.8	0.00	0.00	
4,954.8	0.00	0.00	4,929.0	247.8	-97.6	-247.8	0.00	0.00	Shannon
5,000.0	0.00	0.00	4,974.2	247.8	-97.6	-247.8	0.00	0.00	
5,100.0	0.00	0.00	5,074.2	247.8	-97.6	-247.8	0.00	0.00	
5,200.0	0.00	0.00	5,174.2	247.8	-97.6	-247.8	0.00	0.00	
5,300.0	0.00	0.00	5,274.2	247.8	-97.6	-247.8	0.00	0.00	
5,400.0	0.00	0.00	5,374.2	247.8	-97.6	-247.8	0.00	0.00	
5,500.0	0.00	0.00	5,474.2	247.8	-97.6	-247.8	0.00	0.00	
5,600.0	0.00	0.00	5,574.2	247.8	-97.6	-247.8	0.00	0.00	
5,700.0	0.00	0.00	5,674.2	247.8	-97.6	-247.8	0.00	0.00	
5,800.0	0.00	0.00	5,774.2	247.8	-97.6	-247.8	0.00	0.00	
5,900.0	0.00	0.00	5,874.2	247.8	-97.6	-247.8	0.00	0.00	
6,000.0	0.00	0.00	5,974.2	247.8	-97.6	-247.8	0.00	0.00	
6,100.0	0.00	0.00	6,074.2	247.8	-97.6	-247.8	0.00	0.00	
6,109.8	0.00	0.00	6,084.0	247.8	-97.6	-247.8	0.00	0.00	Teepee Buttes
6,200.0	0.00	0.00	6,174.2	247.8	-97.6	-247.8	0.00	0.00	
6,300.0	0.00	0.00	6,274.2	247.8	-97.6	-247.8	0.00	0.00	
6,400.0	0.00	0.00	6,374.2	247.8	-97.6	-247.8	0.00	0.00	
6,457.8	0.00	0.00	6,432.0	247.8	-97.6	-247.8	0.00	0.00	Start 10° build @ 6457' MD
6,500.0	4.22	180.00	6,474.2	246.3	-97.6	-246.3	10.00	10.00	
6,600.0	14.22	180.00	6,572.8	230.3	-97.6	-230.3	10.00	10.00	
6,700.0	24.22	180.00	6,667.1	197.4	-97.6	-197.4	10.00	10.00	
6,800.0	34.22	180.00	6,754.2	148.7	-97.6	-148.7	10.00	10.00	
6,900.0	44.22	180.00	6,831.6	85.5	-97.6	-85.5	10.00	10.00	
6,916.1	45.83	180.00	6,843.0	74.1	-97.6	-74.1	10.00	10.00	Sharon Springs
6,951.7	49.39	180.00	6,867.0	47.8	-97.6	-47.8	10.00	10.00	Niobrara
7,000.0	54.22	180.00	6,896.8	9.9	-97.6	-9.9	10.00	10.00	
7,014.2	55.64	180.00	6,905.0	-1.7	-97.6	1.7	10.00	10.00	B Chalk
7,100.0	64.22	180.00	6,948.0	-75.9	-97.6	75.9	10.00	10.00	
7,200.0	74.22	180.00	6,983.4	-169.3	-97.6	169.3	10.00	10.00	
7,300.0	84.22	180.00	7,002.1	-267.4	-97.7	267.4	10.00	10.00	
7,357.8	90.00	180.00	7,005.0	-325.1	-97.7	325.1	10.00	10.00	Landing Pt @ 7357' MD; 90° - ICP
7,400.0	90.00	180.00	7,005.0	-367.3	-97.7	367.3	0.01	0.01	
7,500.0	90.00	180.00	7,005.0	-467.3	-97.7	467.3	0.00	0.00	
7,600.0	90.00	180.00	7,005.0	-567.3	-97.7	567.3	0.00	0.00	
7,700.0	90.00	180.00	7,005.0	-667.3	-97.7	667.3	0.00	0.00	
7,800.0	90.00	180.00	7,005.0	-767.3	-97.7	767.3	0.00	0.00	
7,900.0	90.00	180.00	7,005.0	-867.3	-97.7	867.3	0.00	0.00	
8,000.0	90.00	180.00	7,005.0	-967.3	-97.7	967.3	0.00	0.00	
8,100.0	90.00	180.00	7,005.0	-1,067.3	-97.7	1,067.3	0.00	0.00	
8,200.0	90.00	180.00	7,005.0	-1,167.3	-97.7	1,167.3	0.00	0.00	
8,300.0	90.00	180.00	7,005.0	-1,267.3	-97.7	1,267.3	0.00	0.00	
8,400.0	90.00	180.00	7,005.0	-1,367.3	-97.7	1,367.3	0.00	0.00	
8,500.0	90.00	180.00	7,005.0	-1,467.3	-97.7	1,467.3	0.00	0.00	
8,600.0	90.00	180.00	7,005.0	-1,567.3	-97.7	1,567.3	0.00	0.00	
8,700.0	90.00	180.00	7,005.0	-1,667.3	-97.8	1,667.3	0.00	0.00	
8,800.0	90.00	180.00	7,005.0	-1,767.3	-97.8	1,767.3	0.00	0.00	
8,900.0	90.00	180.00	7,005.0	-1,867.3	-97.8	1,867.3	0.00	0.00	
9,000.0	90.00	180.00	7,005.0	-1,967.3	-97.8	1,967.3	0.00	0.00	
9,100.0	90.00	180.00	7,005.0	-2,067.3	-97.8	2,067.3	0.00	0.00	
9,200.0	90.00	180.00	7,005.0	-2,167.3	-97.8	2,167.3	0.00	0.00	

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Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 2A-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
9,300.0	90.00	180.00	7,005.0	-2,267.3	-97.8	2,267.3	0.00	0.00	
9,400.0	90.00	180.00	7,005.0	-2,367.3	-97.8	2,367.3	0.00	0.00	
9,500.0	90.00	180.00	7,005.0	-2,467.3	-97.8	2,467.3	0.00	0.00	
9,600.0	90.00	180.00	7,005.0	-2,567.3	-97.8	2,567.3	0.00	0.00	
9,700.0	90.00	180.00	7,005.0	-2,667.3	-97.8	2,667.3	0.00	0.00	
9,800.0	90.00	180.00	7,005.0	-2,767.3	-97.8	2,767.3	0.00	0.00	
9,900.0	90.00	180.00	7,005.0	-2,867.3	-97.8	2,867.3	0.00	0.00	
10,000.0	90.00	180.00	7,005.0	-2,967.3	-97.8	2,967.3	0.00	0.00	
10,100.0	90.00	180.00	7,005.0	-3,067.3	-97.8	3,067.3	0.00	0.00	
10,200.0	90.00	180.00	7,005.0	-3,167.3	-97.9	3,167.3	0.00	0.00	
10,300.0	90.00	180.00	7,005.0	-3,267.3	-97.9	3,267.3	0.00	0.00	
10,400.0	90.00	180.00	7,005.0	-3,367.3	-97.9	3,367.3	0.00	0.00	
10,500.0	90.00	180.00	7,005.0	-3,467.3	-97.9	3,467.3	0.00	0.00	
10,600.0	90.00	180.00	7,005.0	-3,567.3	-97.9	3,567.3	0.00	0.00	
10,700.0	90.00	180.00	7,005.0	-3,667.3	-97.9	3,667.3	0.00	0.00	
10,800.0	90.00	180.00	7,005.0	-3,767.3	-97.9	3,767.3	0.00	0.00	
10,900.0	90.00	180.00	7,005.0	-3,867.3	-97.9	3,867.3	0.00	0.00	
11,000.0	90.00	180.00	7,005.0	-3,967.3	-97.9	3,967.3	0.00	0.00	
11,100.0	90.00	180.00	7,005.0	-4,067.3	-97.9	4,067.3	0.00	0.00	
11,200.0	90.00	180.00	7,005.0	-4,167.3	-97.9	4,167.3	0.00	0.00	
11,300.0	90.00	180.00	7,005.0	-4,267.3	-97.9	4,267.3	0.00	0.00	
11,400.0	90.00	180.00	7,005.0	-4,367.3	-97.9	4,367.3	0.00	0.00	
11,495.1	90.00	180.00	7,005.0	-4,462.4	-97.9	4,462.4	0.00	0.00	TD at 11495.1 - Flanigan 2A-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 2A-6H PBHL - plan hits target center - Point	0.00	0.00	7,005.0	-4,462.4	-97.9	1,271,262.90	3,251,918.18	40.074490	-104.599810

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
7,357.8	7,005.0	ICP	0.000	0.000

Database:	USA EDM 5000 Multi Users DB	**Local Co-ordinate Reference:**	Well Flanigan 2A-6H
Company:	EnCana Oil & Gas (USA) Inc	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Project:	DJ Wattenberg	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	**North Reference:**	True
Well:	Flanigan 2A-6H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,381.8	4,356.0	Sussex			
4,630.8	4,605.0	Sussex Marker			
4,954.8	4,929.0	Shannon			
6,109.8	6,084.0	Teepee Buttes			
6,916.1	6,843.0	Sharon Springs			
6,951.7	6,867.0	Niobrara			
7,014.2	6,905.0	B Chalk			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
1,200.0	1,200.0	0.0	0.0	KOP @ 1200'
1,500.0	1,497.8	29.1	-11.5	EOB; Inc=12°
2,480.0	2,456.4	218.7	-86.1	Start Drop -4.00
2,780.0	2,754.2	247.8	-97.6	EOD; Inc=0°
6,457.8	6,432.0	247.8	-97.6	Start 10° build @ 6457' MD
7,357.8	7,005.0	-325.1	-97.7	Landing Pt @ 7357' MD; 90°
11,495.1	7,005.0	-4,462.4	-97.9	TD at 11495.1

EnCana Oil & Gas (USA) Inc

DJ Wattenberg
NWNE S6-T1N-R64W (Flanigan)
Flanigan 2A-6H
Hz
Plan #1

Anticollision Report

25 April, 2012

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 2A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 2A-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	11,495.1	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 1A-6H - Hz - Plan #1						Out of range
Flanigan 1B-6H - Hz - Plan #1						Out of range
Flanigan 1C-6H - Hz - Plan #1						Out of range
Flanigan 1D-6H - Hz - Plan #1						Out of range
Flanigan 2B-6H - Hz - Plan #1	1,200.0	1,200.0	28.0	23.8	6.753	CC, ES
Flanigan 2B-6H - Hz - Plan #1	11,495.1	11,542.0	702.4	540.8	4.345	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 2A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 2A-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
0.0	0.0	0.0	0.0	0.0	0.0	90.02	0.0	28.0	28.0				
100.0	100.0	100.0	100.0	0.2	0.2	90.02	0.0	28.0	28.0	27.7	0.30	92.133	
200.0	200.0	200.0	200.0	0.3	0.3	90.02	0.0	28.0	28.0	27.3	0.65	42.864	
300.0	300.0	300.0	300.0	0.5	0.5	90.02	0.0	28.0	28.0	27.0	1.00	27.929	
400.0	400.0	400.0	400.0	0.7	0.7	90.02	0.0	28.0	28.0	26.6	1.35	20.712	
500.0	500.0	500.0	500.0	0.8	0.8	90.02	0.0	28.0	28.0	26.3	1.70	16.459	
600.0	600.0	600.0	600.0	1.0	1.0	90.02	0.0	28.0	28.0	25.9	2.05	13.655	
700.0	700.0	700.0	700.0	1.2	1.2	90.02	0.0	28.0	28.0	25.6	2.40	11.668	
800.0	800.0	800.0	800.0	1.4	1.4	90.02	0.0	28.0	28.0	25.2	2.75	10.185	
900.0	900.0	900.0	900.0	1.5	1.5	90.02	0.0	28.0	28.0	24.9	3.10	9.037	
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	90.02	0.0	28.0	28.0	24.5	3.45	8.121	
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	90.02	0.0	28.0	28.0	24.2	3.79	7.374	
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	90.02	0.0	28.0	28.0	23.8	4.14	6.753	CC, ES
1,300.0	1,299.9	1,298.0	1,297.9	2.2	2.2	114.57	1.4	31.0	32.4	27.9	4.49	7.222	
1,400.0	1,399.4	1,394.7	1,394.1	2.4	2.4	120.02	5.4	40.1	46.1	41.2	4.85	9.500	
1,500.0	1,497.8	1,488.9	1,486.9	2.7	2.7	124.02	11.8	54.5	69.1	63.8	5.25	13.160	
1,600.0	1,595.6	1,584.3	1,580.3	3.0	2.9	126.68	19.9	72.6	97.3	91.6	5.69	17.079	
1,700.0	1,693.4	1,680.2	1,674.1	3.3	3.2	128.13	28.0	90.8	125.6	119.4	6.17	20.350	
1,800.0	1,791.3	1,776.1	1,767.8	3.6	3.5	129.05	36.1	109.0	154.0	147.3	6.67	23.080	
1,900.0	1,889.1	1,871.9	1,861.6	4.0	3.9	129.69	44.2	127.2	182.4	175.2	7.19	25.369	
2,000.0	1,986.9	1,967.8	1,955.4	4.3	4.2	130.15	52.3	145.4	210.8	203.1	7.72	27.302	
2,100.0	2,084.7	2,063.7	2,049.2	4.7	4.6	130.50	60.4	163.6	239.2	230.9	8.26	28.946	
2,200.0	2,182.5	2,159.5	2,142.9	5.0	4.9	130.78	68.5	181.8	267.6	258.8	8.82	30.356	
2,300.0	2,280.3	2,255.4	2,236.7	5.4	5.3	131.01	76.6	200.1	296.1	286.7	9.38	31.573	
2,400.0	2,378.1	2,351.3	2,330.5	5.8	5.6	131.19	84.7	218.3	324.5	314.6	9.94	32.633	
2,500.0	2,476.0	2,447.1	2,424.3	6.2	6.0	131.50	92.8	236.5	352.9	342.3	10.52	33.528	
2,600.0	2,574.7	2,543.8	2,518.8	6.4	6.4	131.85	101.0	254.8	378.2	367.1	11.08	34.127	
2,700.0	2,674.2	2,641.3	2,614.2	6.6	6.7	131.33	109.2	273.4	399.1	387.5	11.57	34.483	
2,800.0	2,774.2	2,739.1	2,709.8	6.7	7.1	108.50	117.5	291.9	415.8	403.8	11.99	34.665	
2,900.0	2,874.2	2,836.9	2,805.5	6.9	7.5	106.65	125.8	310.5	431.5	419.1	12.39	34.821	
3,000.0	2,974.2	2,934.7	2,901.2	7.0	7.9	104.93	134.1	329.1	447.6	434.8	12.78	35.034	
3,100.0	3,074.2	3,032.5	2,996.9	7.1	8.3	103.33	142.3	347.7	464.1	450.9	13.15	35.291	
3,200.0	3,174.2	3,130.4	3,092.5	7.3	8.7	101.84	150.6	366.2	480.9	467.4	13.52	35.583	
3,300.0	3,274.2	3,228.2	3,188.2	7.4	9.1	100.45	158.9	384.8	498.0	484.2	13.87	35.902	
3,400.0	3,374.2	3,326.0	3,283.9	7.5	9.5	99.15	167.1	403.4	515.4	501.2	14.22	36.242	
3,500.0	3,474.2	3,423.8	3,379.6	7.7	9.8	97.93	175.4	422.0	533.1	518.5	14.57	36.596	
3,600.0	3,574.2	3,521.6	3,475.3	7.8	10.2	96.80	183.7	440.6	550.9	536.0	14.91	36.962	
3,700.0	3,674.2	3,619.4	3,570.9	8.0	10.6	95.73	192.0	459.1	569.0	553.8	15.24	37.334	
3,800.0	3,774.2	3,717.2	3,666.6	8.1	11.0	94.73	200.2	477.7	587.2	571.7	15.57	37.710	
3,900.0	3,874.2	3,815.1	3,762.3	8.2	11.4	93.79	208.5	496.3	605.6	589.7	15.90	38.088	
4,000.0	3,974.2	3,912.9	3,858.0	8.4	11.8	92.90	216.8	514.9	624.2	608.0	16.23	38.466	
4,100.0	4,074.2	4,010.7	3,953.6	8.5	12.2	92.07	225.0	533.4	642.9	626.3	16.55	38.842	
4,200.0	4,174.2	4,108.5	4,049.3	8.7	12.6	91.28	233.3	552.0	661.7	644.8	16.87	39.215	
4,300.0	4,274.2	4,206.3	4,145.0	8.8	13.0	90.53	241.6	570.6	680.6	663.4	17.19	39.584	
4,400.0	4,374.2	4,362.4	4,298.7	9.0	13.5	89.62	252.4	594.9	696.7	679.1	17.59	39.602	
4,500.0	4,474.2	4,538.3	4,474.2	9.1	13.7	89.29	256.5	604.1	701.8	683.7	18.00	38.978	
4,600.0	4,574.2	4,638.3	4,574.2	9.3	13.8	89.29	256.5	604.1	701.8	683.4	18.31	38.327	
4,700.0	4,674.2	4,738.3	4,674.2	9.4	13.9	89.29	256.5	604.1	701.8	683.1	18.62	37.694	
4,800.0	4,774.2	4,838.3	4,774.2	9.6	14.0	89.29	256.5	604.1	701.8	682.8	18.93	37.080	
4,900.0	4,874.2	4,938.3	4,874.2	9.7	14.1	89.29	256.5	604.1	701.8	682.5	19.24	36.482	
5,000.0	4,974.2	5,038.3	4,974.2	9.9	14.2	89.29	256.5	604.1	701.8	682.2	19.55	35.901	
5,100.0	5,074.2	5,138.3	5,074.2	10.0	14.3	89.29	256.5	604.1	701.8	681.9	19.86	35.335	

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 2A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 2A-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
5,200.0	5,174.2	5,238.3	5,174.2	10.2	14.5	89.29	256.5	604.1	701.8	681.6	20.17	34.786	
5,300.0	5,274.2	5,338.3	5,274.2	10.3	14.6	89.29	256.5	604.1	701.8	681.3	20.49	34.251	
5,400.0	5,374.2	5,438.3	5,374.2	10.5	14.7	89.29	256.5	604.1	701.8	680.9	20.80	33.730	
5,500.0	5,474.2	5,538.3	5,474.2	10.7	14.8	89.29	256.5	604.1	701.8	680.6	21.12	33.224	
5,600.0	5,574.2	5,638.3	5,574.2	10.8	14.9	89.29	256.5	604.1	701.8	680.3	21.44	32.731	
5,700.0	5,674.2	5,738.3	5,674.2	11.0	15.0	89.29	256.5	604.1	701.8	680.0	21.76	32.251	
5,800.0	5,774.2	5,838.3	5,774.2	11.1	15.1	89.29	256.5	604.1	701.8	679.7	22.08	31.784	
5,900.0	5,874.2	5,938.3	5,874.2	11.3	15.3	89.29	256.5	604.1	701.8	679.4	22.40	31.328	
6,000.0	5,974.2	6,038.3	5,974.2	11.4	15.4	89.29	256.5	604.1	701.8	679.0	22.72	30.885	
6,100.0	6,074.2	6,138.3	6,074.2	11.6	15.5	89.29	256.5	604.1	701.8	678.7	23.04	30.453	
6,200.0	6,174.2	6,238.3	6,174.2	11.8	15.6	89.29	256.5	604.1	701.8	678.4	23.37	30.031	
6,300.0	6,274.2	6,338.3	6,274.2	11.9	15.7	89.29	256.5	604.1	701.8	678.1	23.69	29.621	
6,400.0	6,374.2	6,438.3	6,374.2	12.1	15.9	89.29	256.5	604.1	701.8	677.7	24.02	29.220	
6,500.0	6,474.2	6,538.9	6,474.8	12.2	16.0	-90.71	254.9	604.1	701.8	677.5	24.30	28.878	
6,600.0	6,572.8	6,640.4	6,574.8	12.3	16.0	-90.69	238.4	604.1	701.7	677.4	24.39	28.773	
6,700.0	6,667.1	6,741.9	6,670.3	12.3	16.0	-90.65	204.6	604.1	701.7	677.4	24.34	28.833	
6,800.0	6,754.2	6,843.2	6,758.3	12.2	15.9	-90.59	154.5	604.1	701.7	677.5	24.25	28.939	
6,803.5	6,757.2	6,846.8	6,761.2	12.2	15.9	-90.58	152.5	604.1	701.7	677.5	24.25	28.941	
6,900.0	6,831.6	6,944.4	6,835.9	12.2	15.9	-90.51	89.9	604.1	701.7	677.5	24.25	28.937	
7,000.0	6,896.8	7,045.3	6,900.9	12.3	16.0	-90.41	12.8	604.1	701.8	677.3	24.48	28.664	
7,100.0	6,948.0	7,146.1	6,951.3	12.6	16.2	-90.31	-74.3	604.1	701.8	676.7	25.06	28.002	
7,200.0	6,983.4	7,246.6	6,985.6	13.1	16.6	-90.19	-168.6	604.1	701.8	675.7	26.06	26.931	
7,300.0	7,002.1	7,346.9	7,002.9	13.8	17.1	-90.07	-267.3	604.1	701.8	674.3	27.48	25.541	
7,400.0	7,005.0	7,446.9	7,005.0	14.7	17.8	-90.00	-367.2	604.1	701.8	672.5	29.27	23.973	
7,500.0	7,005.0	7,546.9	7,005.0	15.7	18.7	-90.00	-467.2	604.1	701.8	670.5	31.34	22.390	
7,600.0	7,005.0	7,646.9	7,005.0	16.9	19.7	-90.00	-567.2	604.1	701.8	668.2	33.65	20.854	
7,700.0	7,005.0	7,746.9	7,005.0	18.1	20.7	-90.00	-667.2	604.2	701.8	665.7	36.16	19.411	
7,800.0	7,005.0	7,846.9	7,005.0	19.4	21.9	-90.00	-767.2	604.2	701.9	663.0	38.82	18.082	
7,900.0	7,005.0	7,946.9	7,005.0	20.8	23.1	-90.00	-867.2	604.2	701.9	660.3	41.60	16.871	
8,000.0	7,005.0	8,046.9	7,005.0	22.3	24.4	-90.00	-967.2	604.2	701.9	657.4	44.49	15.777	
8,100.0	7,005.0	8,146.9	7,005.0	23.8	25.8	-90.00	-1,067.2	604.2	701.9	654.4	47.46	14.789	
8,200.0	7,005.0	8,246.9	7,005.0	25.3	27.2	-90.00	-1,167.2	604.2	701.9	651.4	50.50	13.899	
8,300.0	7,005.0	8,346.9	7,005.0	26.8	28.7	-90.00	-1,267.2	604.2	701.9	648.3	53.60	13.096	
8,400.0	7,005.0	8,446.9	7,005.0	28.4	30.1	-90.00	-1,367.2	604.2	701.9	645.2	56.74	12.370	
8,500.0	7,005.0	8,546.9	7,005.0	30.0	31.6	-90.00	-1,467.2	604.2	702.0	642.0	59.93	11.713	
8,600.0	7,005.0	8,646.9	7,005.0	31.6	33.2	-90.00	-1,567.2	604.2	702.0	638.8	63.15	11.116	
8,700.0	7,005.0	8,746.9	7,005.0	33.2	34.7	-90.00	-1,667.2	604.2	702.0	635.6	66.40	10.572	
8,800.0	7,005.0	8,846.9	7,005.0	34.9	36.3	-90.00	-1,767.2	604.2	702.0	632.3	69.67	10.076	
8,900.0	7,005.0	8,946.9	7,005.0	36.5	37.9	-90.00	-1,867.2	604.3	702.0	629.1	72.97	9.621	
9,000.0	7,005.0	9,046.9	7,005.0	38.2	39.5	-90.00	-1,967.2	604.3	702.0	625.8	76.29	9.203	
9,100.0	7,005.0	9,146.9	7,005.0	39.8	41.1	-90.00	-2,067.2	604.3	702.1	622.4	79.62	8.818	
9,200.0	7,005.0	9,246.9	7,005.0	41.5	42.7	-90.00	-2,167.2	604.3	702.1	619.1	82.96	8.462	
9,300.0	7,005.0	9,346.9	7,005.0	43.2	44.3	-90.00	-2,267.2	604.3	702.1	615.8	86.32	8.133	
9,400.0	7,005.0	9,446.9	7,005.0	44.9	46.0	-90.00	-2,367.2	604.3	702.1	612.4	89.69	7.828	
9,500.0	7,005.0	9,546.9	7,005.0	46.5	47.6	-90.00	-2,467.2	604.3	702.1	609.0	93.07	7.544	
9,600.0	7,005.0	9,646.9	7,005.0	48.2	49.3	-90.00	-2,567.2	604.3	702.1	605.7	96.46	7.279	
9,700.0	7,005.0	9,746.9	7,005.0	49.9	51.0	-90.00	-2,667.2	604.3	702.1	602.3	99.86	7.031	
9,800.0	7,005.0	9,846.9	7,005.0	51.6	52.6	-90.00	-2,767.2	604.3	702.2	598.9	103.27	6.799	
9,900.0	7,005.0	9,946.9	7,005.0	53.3	54.3	-90.00	-2,867.2	604.3	702.2	595.5	106.68	6.582	
10,000.0	7,005.0	10,046.9	7,005.0	55.1	56.0	-90.00	-2,967.2	604.3	702.2	592.1	110.10	6.378	
10,100.0	7,005.0	10,146.9	7,005.0	56.8	57.7	-90.00	-3,067.2	604.4	702.2	588.7	113.52	6.186	
10,200.0	7,005.0	10,246.9	7,005.0	58.5	59.4	-90.00	-3,167.2	604.4	702.2	585.3	116.95	6.005	

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 2A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 2A-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

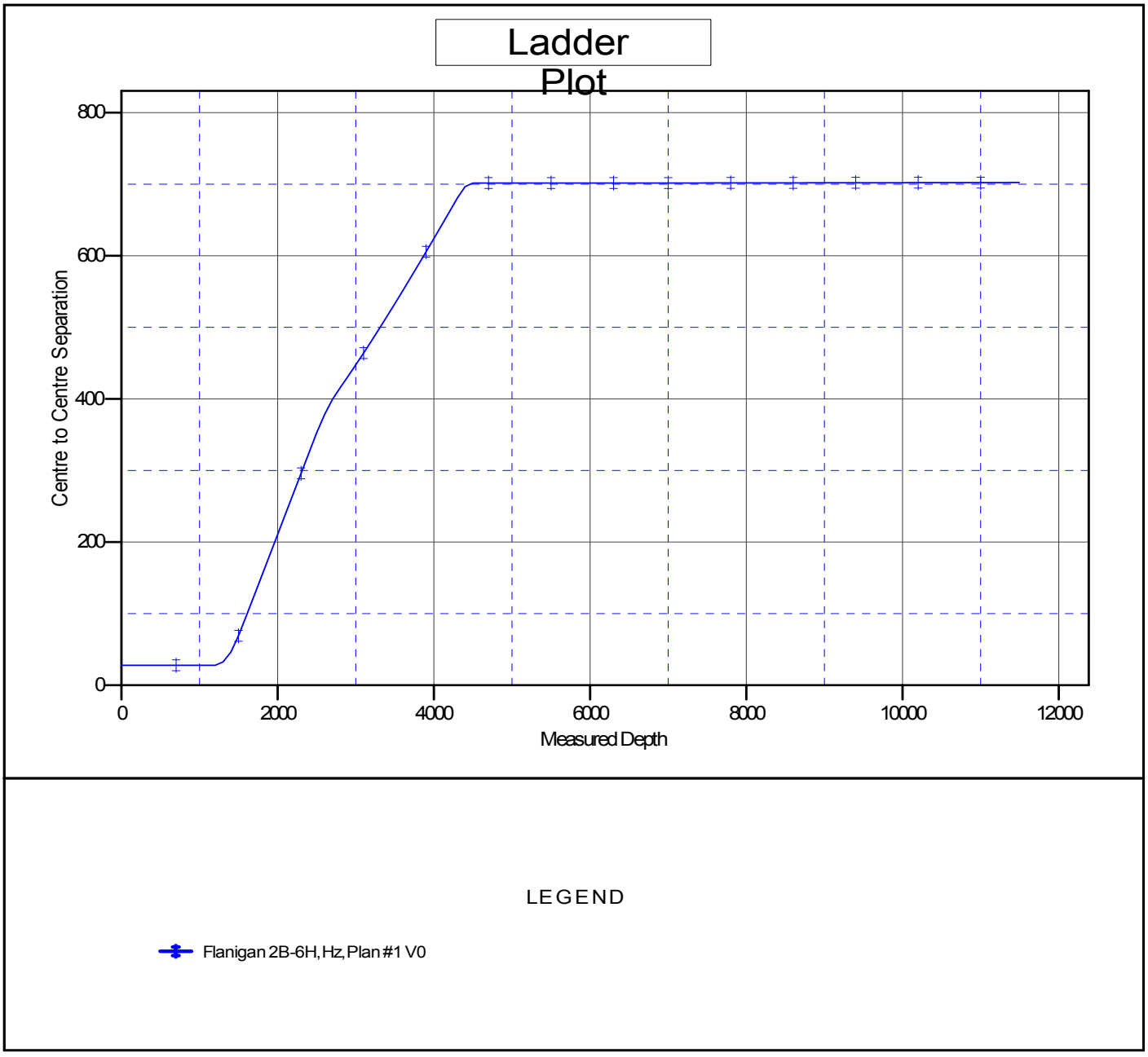
Offset Well Error: 0.0 ft

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
10,300.0	7,005.0	10,346.9	7,005.0	60.2	61.0	-90.00	-3,267.2	604.4	702.2	581.9	120.38	5.833	
10,400.0	7,005.0	10,446.9	7,005.0	61.9	62.7	-90.00	-3,367.2	604.4	702.3	578.4	123.82	5.672	
10,500.0	7,005.0	10,546.9	7,005.0	63.6	64.4	-90.00	-3,467.2	604.4	702.3	575.0	127.26	5.518	
10,600.0	7,005.0	10,646.9	7,005.0	65.4	66.1	-90.00	-3,567.2	604.4	702.3	571.6	130.70	5.373	
10,700.0	7,005.0	10,746.9	7,005.0	67.1	67.8	-90.00	-3,667.2	604.4	702.3	568.1	134.15	5.235	
10,800.0	7,005.0	10,846.9	7,005.0	68.8	69.6	-90.00	-3,767.2	604.4	702.3	564.7	137.60	5.104	
10,900.0	7,005.0	10,946.9	7,005.0	70.5	71.3	-90.00	-3,867.2	604.4	702.3	561.3	141.06	4.979	
11,000.0	7,005.0	11,046.9	7,005.0	72.3	73.0	-90.00	-3,967.2	604.4	702.3	557.8	144.51	4.860	
11,100.0	7,005.0	11,146.9	7,005.0	74.0	74.7	-90.00	-4,067.2	604.4	702.4	554.4	147.97	4.747	
11,200.0	7,005.0	11,246.9	7,005.0	75.7	76.4	-90.00	-4,167.2	604.4	702.4	550.9	151.43	4.638	
11,300.0	7,005.0	11,346.9	7,005.0	77.5	78.1	-90.00	-4,267.2	604.5	702.4	547.5	154.90	4.535	
11,400.0	7,005.0	11,446.9	7,005.0	79.2	79.8	-90.00	-4,367.2	604.5	702.4	544.0	158.36	4.435	
11,495.1	7,005.0	11,542.0	7,005.0	80.8	81.5	-90.00	-4,462.3	604.5	702.4	540.8	161.66	4.345	SF

Company:	EnCana Oil & Gas (USA) Inc	**Local Co-ordinate Reference:**	Well Flanigan 2A-6H
Project:	DJ Wattenberg	**TVD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	**MD Reference:**	KB=13' @ 4949.0ft (Original Well Elev)
Site Error:	0.0ft	**North Reference:**	True
Reference Well:	Flanigan 2A-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' @ 4949.0ft (Original Well Elev
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Flanigan 2A-6H
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.58°



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