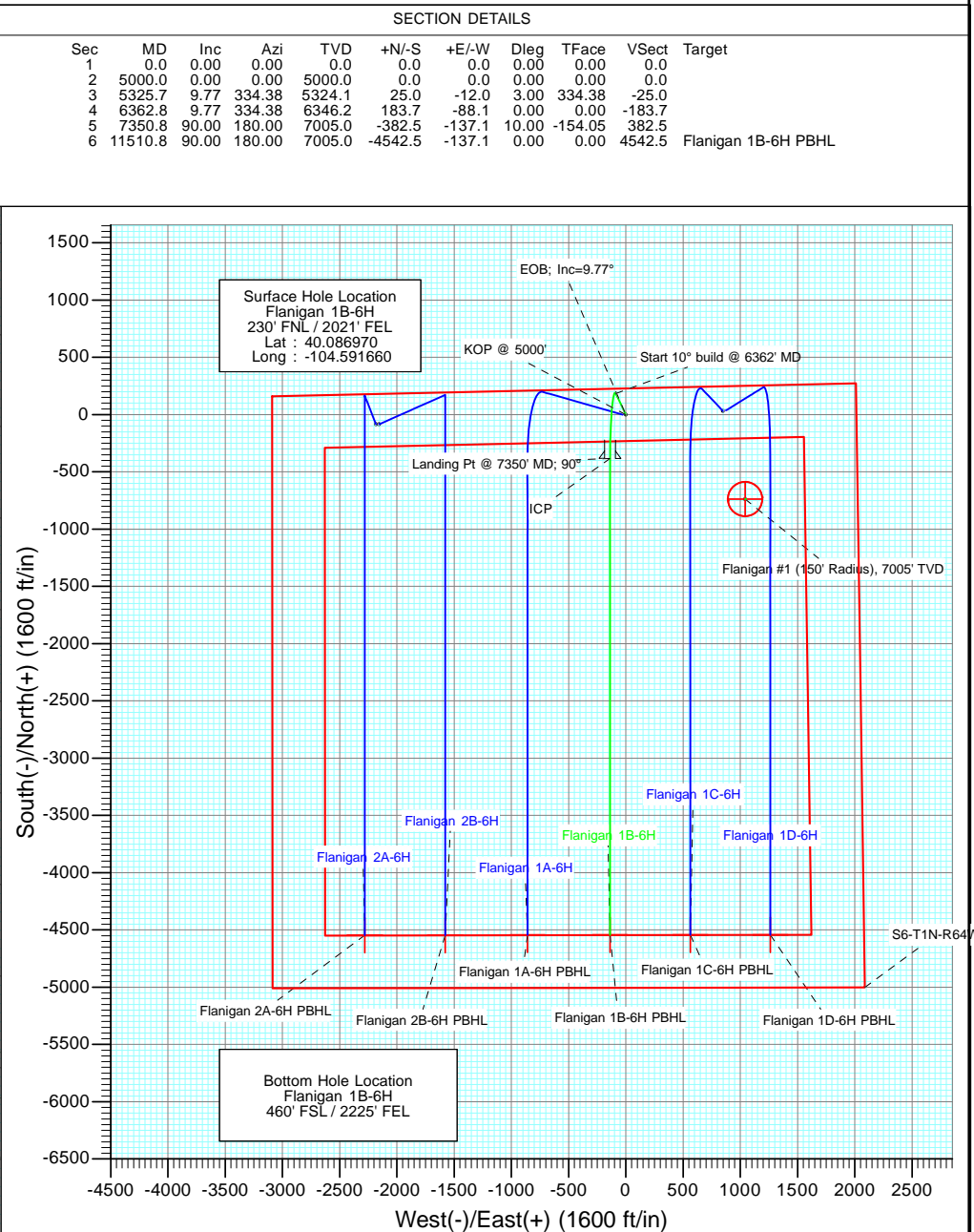
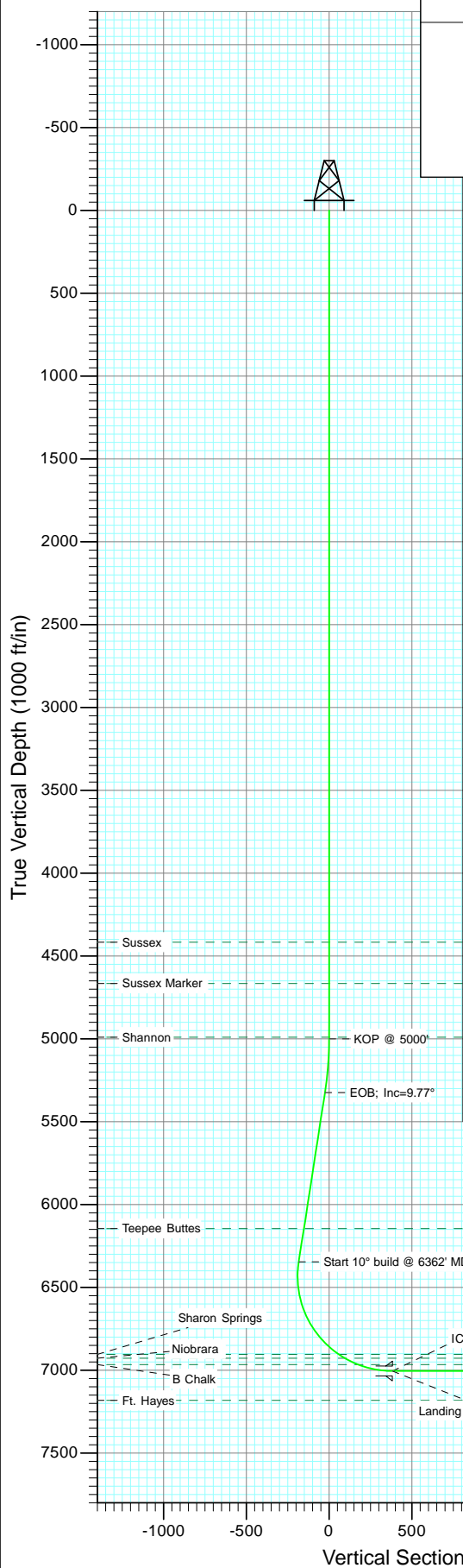




Project: DJ Wattenberg
Site: NWNE S6-T1N-R64W (Flanigan)
Well: Flanigan 1B-6H
Wellbore: Hz
Design: Plan #1



T **M**
Magnetic North: 8.63°
Magnetic Field
Strength: 52893.1snT
Dip Angle: 66.80°
Date: 4/24/2012
Model: IGRF2010

FORMATION TOP DETAILS

TVDP	MD	Formation
4417.0	4417.0	Sussex
4666.0	4666.0	Sussex Marker
4990.0	4990.0	Shannon
6145.0	6158.7	Teepee Buttes
6904.0	7004.9	Sharon Springs
6928.0	7049.9	Niobrara
6966.0	7137.9	B Chalk

Type	Target	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD
Name	Flanigan 1B-6H PBHL		TVD	+N/-S	+E/-W	Latitude	Longitude
			7005.0	-4542.5	-137.1	40.074500	-104.592150

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1B-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 1B-6H					
Well Position	+N/-S	0.0 ft	Northing:	1,275,832.10 ft	Latitude:	40.086970
	+E/-W	0.0 ft	Easting:	3,254,152.25 ft	Longitude:	-104.591660
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	52,893

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	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,325.7	9.77	334.38	5,324.1	25.0	-12.0	3.00	3.00	0.00	334.38	
6,362.8	9.77	334.38	6,346.2	183.7	-88.1	0.00	0.00	0.00	0.00	
7,350.8	90.00	180.00	7,005.0	-382.5	-137.1	10.00	8.12	-15.63	-154.05	
11,510.8	90.00	180.00	7,005.0	-4,542.5	-137.1	0.00	0.00	0.00	0.00	Flanigan 1B-6H PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1B-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	
4,417.0	0.00	0.00	4,417.0	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	
4,666.0	0.00	0.00	4,666.0	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	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1B-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
4,990.0	0.00	0.00	4,990.0	0.0	0.0	0.0	0.00	0.00	Shannon
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 5000'
5,100.0	3.00	334.38	5,100.0	2.4	-1.1	-2.4	3.00	3.00	
5,200.0	6.00	334.38	5,199.6	9.4	-4.5	-9.4	3.00	3.00	
5,300.0	9.00	334.38	5,298.8	21.2	-10.2	-21.2	3.00	3.00	
5,325.7	9.77	334.38	5,324.1	25.0	-12.0	-25.0	3.00	3.00	EOB; Inc=9.77°
5,400.0	9.77	334.38	5,397.3	36.3	-17.4	-36.3	0.00	0.00	
5,500.0	9.77	334.38	5,495.9	51.7	-24.8	-51.7	0.00	0.00	
5,600.0	9.77	334.38	5,594.4	67.0	-32.1	-67.0	0.00	0.00	
5,700.0	9.77	334.38	5,693.0	82.3	-39.4	-82.3	0.00	0.00	
5,800.0	9.77	334.38	5,791.5	97.6	-46.8	-97.6	0.00	0.00	
5,900.0	9.77	334.38	5,890.1	112.9	-54.1	-112.9	0.00	0.00	
6,000.0	9.77	334.38	5,988.6	128.2	-61.5	-128.2	0.00	0.00	
6,100.0	9.77	334.38	6,087.2	143.5	-68.8	-143.5	0.00	0.00	
6,158.7	9.77	334.38	6,145.0	152.4	-73.1	-152.4	0.00	0.00	Teepee Buttes
6,200.0	9.77	334.38	6,185.7	158.8	-76.1	-158.8	0.00	0.00	
6,300.0	9.77	334.38	6,284.3	174.1	-83.5	-174.1	0.00	0.00	
6,362.8	9.77	334.38	6,346.2	183.7	-88.1	-183.7	0.00	0.00	Start 10° build @ 6362' MD
6,400.0	6.63	320.15	6,383.0	188.2	-90.8	-188.2	10.00	-8.45	
6,500.0	6.50	220.80	6,482.6	188.3	-98.2	-188.3	10.00	-0.13	
6,600.0	15.50	195.57	6,580.7	171.1	-105.5	-171.1	10.00	9.00	
6,700.0	25.26	189.08	6,674.3	137.1	-112.5	-137.1	10.00	9.76	
6,800.0	35.14	186.07	6,760.7	87.3	-118.9	-87.3	10.00	9.89	
6,900.0	45.08	184.26	6,837.1	23.2	-124.6	-23.2	10.00	9.93	
7,000.0	55.03	182.99	6,901.2	-53.2	-129.4	53.2	10.00	9.95	
7,004.9	55.52	182.93	6,904.0	-57.3	-129.6	57.3	10.00	9.96	Sharon Springs
7,049.9	60.00	182.46	6,928.0	-95.3	-131.4	95.3	10.00	9.96	Niobrara
7,100.0	64.99	181.99	6,951.1	-139.6	-133.1	139.6	10.00	9.96	
7,137.9	68.77	181.66	6,966.0	-174.5	-134.2	174.5	10.00	9.97	B Chalk
7,200.0	74.96	181.15	6,985.3	-233.4	-135.7	233.4	10.00	9.97	
7,300.0	84.93	180.38	7,002.8	-331.8	-137.0	331.8	10.00	9.97	
7,350.8	90.00	180.00	7,005.0	-382.5	-137.1	382.5	10.00	9.97	Landing Pt @ 7350' MD; 90° - ICP
7,400.0	90.00	180.00	7,005.0	-431.7	-137.1	431.7	0.01	0.01	
7,500.0	90.00	180.00	7,005.0	-531.7	-137.1	531.7	0.00	0.00	
7,600.0	90.00	180.00	7,005.0	-631.7	-137.1	631.7	0.00	0.00	
7,700.0	90.00	180.00	7,005.0	-731.7	-137.1	731.7	0.00	0.00	
7,800.0	90.00	180.00	7,005.0	-831.7	-137.1	831.7	0.00	0.00	
7,900.0	90.00	180.00	7,005.0	-931.7	-137.1	931.7	0.00	0.00	
8,000.0	90.00	180.00	7,005.0	-1,031.7	-137.1	1,031.7	0.00	0.00	
8,100.0	90.00	180.00	7,005.0	-1,131.7	-137.1	1,131.7	0.00	0.00	
8,200.0	90.00	180.00	7,005.0	-1,231.7	-137.1	1,231.7	0.00	0.00	
8,300.0	90.00	180.00	7,005.0	-1,331.7	-137.1	1,331.7	0.00	0.00	
8,400.0	90.00	180.00	7,005.0	-1,431.7	-137.1	1,431.7	0.00	0.00	
8,500.0	90.00	180.00	7,005.0	-1,531.7	-137.1	1,531.7	0.00	0.00	
8,600.0	90.00	180.00	7,005.0	-1,631.7	-137.1	1,631.7	0.00	0.00	
8,700.0	90.00	180.00	7,005.0	-1,731.7	-137.1	1,731.7	0.00	0.00	
8,800.0	90.00	180.00	7,005.0	-1,831.7	-137.1	1,831.7	0.00	0.00	
8,900.0	90.00	180.00	7,005.0	-1,931.7	-137.1	1,931.7	0.00	0.00	
9,000.0	90.00	180.00	7,005.0	-2,031.7	-137.1	2,031.7	0.00	0.00	
9,100.0	90.00	180.00	7,005.0	-2,131.7	-137.1	2,131.7	0.00	0.00	
9,200.0	90.00	180.00	7,005.0	-2,231.7	-137.1	2,231.7	0.00	0.00	
9,300.0	90.00	180.00	7,005.0	-2,331.7	-137.1	2,331.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1B-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	-2,431.7	-137.1	2,431.7	0.00	0.00	
9,500.0	90.00	180.00	7,005.0	-2,531.7	-137.1	2,531.7	0.00	0.00	
9,600.0	90.00	180.00	7,005.0	-2,631.7	-137.1	2,631.7	0.00	0.00	
9,700.0	90.00	180.00	7,005.0	-2,731.7	-137.1	2,731.7	0.00	0.00	
9,800.0	90.00	180.00	7,005.0	-2,831.7	-137.1	2,831.7	0.00	0.00	
9,900.0	90.00	180.00	7,005.0	-2,931.7	-137.1	2,931.7	0.00	0.00	
10,000.0	90.00	180.00	7,005.0	-3,031.7	-137.1	3,031.7	0.00	0.00	
10,100.0	90.00	180.00	7,005.0	-3,131.7	-137.1	3,131.7	0.00	0.00	
10,200.0	90.00	180.00	7,005.0	-3,231.7	-137.1	3,231.7	0.00	0.00	
10,300.0	90.00	180.00	7,005.0	-3,331.7	-137.1	3,331.7	0.00	0.00	
10,400.0	90.00	180.00	7,005.0	-3,431.7	-137.1	3,431.7	0.00	0.00	
10,500.0	90.00	180.00	7,005.0	-3,531.7	-137.1	3,531.7	0.00	0.00	
10,600.0	90.00	180.00	7,005.0	-3,631.7	-137.1	3,631.7	0.00	0.00	
10,700.0	90.00	180.00	7,005.0	-3,731.7	-137.1	3,731.7	0.00	0.00	
10,800.0	90.00	180.00	7,005.0	-3,831.7	-137.1	3,831.7	0.00	0.00	
10,900.0	90.00	180.00	7,005.0	-3,931.7	-137.1	3,931.7	0.00	0.00	
11,000.0	90.00	180.00	7,005.0	-4,031.7	-137.1	4,031.7	0.00	0.00	
11,100.0	90.00	180.00	7,005.0	-4,131.7	-137.1	4,131.7	0.00	0.00	
11,200.0	90.00	180.00	7,005.0	-4,231.7	-137.1	4,231.7	0.00	0.00	
11,300.0	90.00	180.00	7,005.0	-4,331.7	-137.1	4,331.7	0.00	0.00	
11,400.0	90.00	180.00	7,005.0	-4,431.7	-137.1	4,431.7	0.00	0.00	
11,500.0	90.00	180.00	7,005.0	-4,531.7	-137.1	4,531.7	0.00	0.00	
11,510.8	90.00	180.00	7,005.0	-4,542.5	-137.1	4,542.5	0.00	0.00	TD at 11510.8 - Flanigan 1B-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 1B-6H PBHL	0.00	0.00	7,005.0	-4,542.5	-137.1	1,271,288.40	3,254,061.66	40.074500	-104.592150
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
7,350.8	7,005.0	ICP	0.000	0.000

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site:	NWNE S6-T1N-R64W (Flanigan)	North Reference:	True
Well:	Flanigan 1B-6H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,417.0	4,417.0	Sussex				
4,666.0	4,666.0	Sussex Marker				
4,990.0	4,990.0	Shannon				
6,158.7	6,145.0	Teepee Buttes				
7,004.9	6,904.0	Sharon Springs				
7,049.9	6,928.0	Niobrara				
7,137.9	6,966.0	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'	
5,325.7	5,324.1	25.0	-12.0	EOB; Inc=9.77°	
6,362.8	6,346.2	183.7	-88.1	Start 10° build @ 6362' MD	
7,350.8	7,005.0	-382.5	-137.1	Landing Pt @ 7350' MD; 90°	
11,510.8	7,005.0	-4,542.5	-137.1	TD at 11510.8	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

NWNE S6-T1N-R64W (Flanigan)

Flanigan 1B-6H

Hz

Plan #1

Anticollision Report

25 April, 2012

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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	11,509.9	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						Out of range
Flanigan 1A-6H - Hz - Plan #1	3,000.0	2,981.0	28.0	17.6	2.692	CC, ES, SF
Flanigan 1C-6H - Hz - Plan #1	7,264.9	7,330.3	699.3	671.2	24.896	CC
Flanigan 1C-6H - Hz - Plan #1	11,510.8	11,568.9	699.6	534.8	4.244	ES, SF
Flanigan 1D-6H - Hz - Plan #1	5,000.0	5,000.0	873.7	856.3	50.191	CC, ES
Flanigan 1D-6H - Hz - Plan #1	5,300.0	5,218.0	896.8	878.5	48.992	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 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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			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		
0.0	0.0	0.0	0.0	0.0	0.0	-90.01	0.0	-28.0	33.8					
100.0	100.0	81.0	81.0	0.2	0.1	-90.01	0.0	-28.0	28.0	27.7	0.27	101.805		
200.0	200.0	181.0	181.0	0.3	0.3	-90.01	0.0	-28.0	28.0	27.4	0.62	45.158		
300.0	300.0	281.0	281.0	0.5	0.5	-90.01	0.0	-28.0	28.0	27.0	0.97	28.885		
400.0	400.0	381.0	381.0	0.7	0.6	-90.01	0.0	-28.0	28.0	26.7	1.32	21.233		
500.0	500.0	481.0	481.0	0.8	0.8	-90.01	0.0	-28.0	28.0	26.3	1.67	16.787		
600.0	600.0	581.0	581.0	1.0	1.0	-90.01	0.0	-28.0	28.0	26.0	2.02	13.880		
700.0	700.0	681.0	681.0	1.2	1.2	-90.01	0.0	-28.0	28.0	25.6	2.36	11.831		
800.0	800.0	781.0	781.0	1.4	1.3	-90.01	0.0	-28.0	28.0	25.3	2.71	10.309		
900.0	900.0	881.0	881.0	1.5	1.5	-90.01	0.0	-28.0	28.0	24.9	3.06	9.135		
1,000.0	1,000.0	981.0	981.0	1.7	1.7	-90.01	0.0	-28.0	28.0	24.6	3.41	8.200		
1,100.0	1,100.0	1,081.0	1,081.0	1.9	1.9	-90.01	0.0	-28.0	28.0	24.2	3.76	7.439		
1,200.0	1,200.0	1,181.0	1,181.0	2.1	2.0	-90.01	0.0	-28.0	28.0	23.9	4.11	6.807		
1,300.0	1,300.0	1,281.0	1,281.0	2.2	2.2	-90.01	0.0	-28.0	28.0	23.5	4.46	6.274		
1,400.0	1,400.0	1,381.0	1,381.0	2.4	2.4	-90.01	0.0	-28.0	28.0	23.2	4.81	5.819		
1,500.0	1,500.0	1,481.0	1,481.0	2.6	2.6	-90.01	0.0	-28.0	28.0	22.8	5.16	5.425		
1,600.0	1,600.0	1,581.0	1,581.0	2.8	2.7	-90.01	0.0	-28.0	28.0	22.5	5.51	5.081		
1,700.0	1,700.0	1,681.0	1,681.0	2.9	2.9	-90.01	0.0	-28.0	28.0	22.1	5.86	4.778		
1,800.0	1,800.0	1,781.0	1,781.0	3.1	3.1	-90.01	0.0	-28.0	28.0	21.8	6.20	4.509		
1,900.0	1,900.0	1,881.0	1,881.0	3.3	3.3	-90.01	0.0	-28.0	28.0	21.4	6.55	4.269		
2,000.0	2,000.0	1,981.0	1,981.0	3.5	3.4	-90.01	0.0	-28.0	28.0	21.1	6.90	4.053		
2,100.0	2,100.0	2,081.0	2,081.0	3.6	3.6	-90.01	0.0	-28.0	28.0	20.7	7.25	3.858		
2,200.0	2,200.0	2,181.0	2,181.0	3.8	3.8	-90.01	0.0	-28.0	28.0	20.4	7.60	3.681		
2,300.0	2,300.0	2,281.0	2,281.0	4.0	4.0	-90.01	0.0	-28.0	28.0	20.0	7.95	3.519		
2,400.0	2,400.0	2,381.0	2,381.0	4.2	4.1	-90.01	0.0	-28.0	28.0	19.7	8.30	3.371		
2,500.0	2,500.0	2,481.0	2,481.0	4.3	4.3	-90.01	0.0	-28.0	28.0	19.3	8.65	3.235		
2,600.0	2,600.0	2,581.0	2,581.0	4.5	4.5	-90.01	0.0	-28.0	28.0	19.0	9.00	3.110		
2,700.0	2,700.0	2,681.0	2,681.0	4.7	4.7	-90.01	0.0	-28.0	28.0	18.6	9.35	2.994		
2,800.0	2,800.0	2,781.0	2,781.0	4.9	4.8	-90.01	0.0	-28.0	28.0	18.3	9.70	2.886		
2,900.0	2,900.0	2,881.0	2,881.0	5.0	5.0	-90.01	0.0	-28.0	28.0	17.9	10.04	2.786		
3,000.0	3,000.0	2,981.0	2,981.0	5.2	5.2	-90.01	0.0	-28.0	28.0	17.6	10.39	2.692 CC, ES, SF		
3,100.0	3,100.0	3,079.8	3,079.8	5.4	5.4	-89.12	0.5	-29.6	29.6	18.9	10.74	2.757		
3,200.0	3,200.0	3,178.0	3,177.7	5.6	5.5	-86.40	2.3	-35.9	36.2	25.1	11.09	3.263		
3,300.0	3,300.0	3,275.2	3,274.2	5.7	5.7	-83.44	5.4	-47.0	47.8	36.4	11.43	4.182		
3,400.0	3,400.0	3,371.0	3,368.6	5.9	5.9	-81.07	9.8	-62.5	64.5	52.7	11.78	5.475		
3,500.0	3,500.0	3,466.6	3,462.0	6.1	6.1	-79.38	15.4	-82.2	85.7	73.6	12.13	7.068		
3,600.0	3,600.0	3,564.1	3,557.1	6.3	6.4	-78.30	21.3	-103.0	107.9	95.4	12.49	8.640		
3,700.0	3,700.0	3,661.6	3,652.1	6.4	6.7	-77.58	27.3	-123.9	130.1	117.2	12.85	10.125		
3,800.0	3,800.0	3,759.1	3,747.2	6.6	6.9	-77.08	33.2	-144.7	152.3	139.0	13.21	11.526		
3,900.0	3,900.0	3,856.6	3,842.3	6.8	7.2	-76.70	39.1	-165.5	174.5	160.9	13.58	12.850		
4,000.0	4,000.0	3,954.0	3,937.3	7.0	7.6	-76.41	45.1	-186.4	196.7	182.7	13.95	14.103		
4,100.0	4,100.0	4,051.5	4,032.4	7.1	7.9	-76.18	51.0	-207.2	218.9	204.6	14.32	15.288		
4,200.0	4,200.0	4,149.0	4,127.4	7.3	8.2	-75.99	56.9	-228.1	241.1	226.4	14.69	16.410		
4,300.0	4,300.0	4,246.5	4,222.5	7.5	8.5	-75.83	62.8	-248.9	263.3	248.3	15.07	17.474		
4,400.0	4,400.0	4,344.0	4,317.5	7.7	8.9	-75.70	68.8	-269.8	285.5	270.1	15.45	18.485		
4,500.0	4,500.0	4,441.5	4,412.6	7.8	9.2	-75.58	74.7	-290.6	307.8	291.9	15.83	19.444		
4,600.0	4,600.0	4,539.0	4,507.7	8.0	9.6	-75.49	80.6	-311.5	330.0	313.8	16.21	20.357		
4,700.0	4,700.0	4,636.5	4,602.7	8.2	10.0	-75.40	86.6	-332.3	352.2	335.6	16.59	21.225		
4,800.0	4,800.0	4,734.0	4,697.8	8.4	10.3	-75.32	92.5	-353.2	374.4	357.5	16.98	22.053		
4,900.0	4,900.0	4,831.5	4,792.8	8.5	10.7	-75.26	98.4	-374.0	396.7	379.3	17.37	22.842		
5,000.0	5,000.0	4,929.0	4,887.9	8.7	11.1	-75.20	104.3	-394.9	418.9	401.1	17.75	23.595		
5,100.0	5,100.0	5,026.9	4,983.3	8.9	11.4	-49.31	110.3	-415.8	439.4	421.8	17.63	24.929		

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 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,199.6	5,125.2	5,079.2	9.1	11.8	-49.61	116.3	-436.8	456.7	438.7	17.97		25.410	
5,300.0	5,298.8	5,223.8	5,175.3	9.2	12.2	-50.42	122.3	-457.9	470.7	452.4	18.32		25.700	
5,400.0	5,397.3	5,322.4	5,271.4	9.4	12.6	-51.77	128.3	-479.0	482.6	463.9	18.68		25.828	
5,500.0	5,495.9	5,421.0	5,367.5	9.6	13.0	-53.14	134.3	-500.0	494.6	475.6	19.07		25.936	
5,600.0	5,594.4	5,519.5	5,463.6	9.9	13.4	-54.45	140.3	-521.1	507.0	487.5	19.47		26.038	
5,700.0	5,693.0	5,618.1	5,559.8	10.1	13.8	-55.69	146.3	-542.2	519.5	499.6	19.88		26.132	
5,800.0	5,791.5	5,716.7	5,655.9	10.3	14.2	-56.87	152.3	-563.3	532.3	512.0	20.30		26.218	
5,900.0	5,890.1	5,815.3	5,752.0	10.5	14.6	-58.00	158.2	-584.3	545.3	524.6	20.74		26.296	
6,000.0	5,988.6	5,913.9	5,848.1	10.8	15.0	-59.08	164.2	-605.4	558.5	537.4	21.19		26.365	
6,100.0	6,087.2	6,012.5	5,944.2	11.0	15.4	-60.10	170.2	-626.5	571.9	550.3	21.64		26.426	
6,200.0	6,185.7	6,111.0	6,040.3	11.3	15.8	-61.08	176.2	-647.6	585.5	563.4	22.11		26.478	
6,300.0	6,284.3	6,209.6	6,136.5	11.5	16.2	-62.02	182.2	-668.7	599.3	576.7	22.59		26.523	
6,400.0	6,383.0	6,308.3	6,232.7	11.8	16.6	-62.93	188.2	-689.8	613.2	590.1	23.10		26.544	
6,500.0	6,482.6	6,407.0	6,328.9	11.9	17.0	-63.86	194.2	-710.9	627.3	603.8	23.50		26.688	
6,600.0	6,580.7	6,503.8	6,423.3	12.0	17.4	-64.76	200.0	-731.6	641.8	618.1	23.73		27.051	
6,700.0	6,674.3	6,606.2	6,523.1	12.1	17.8	-65.69	194.9	-753.4	657.0	633.2	23.81		27.597	
6,800.0	6,760.7	6,715.1	6,626.4	12.1	18.1	-66.54	169.6	-776.1	672.3	648.4	23.86		28.181	
6,900.0	6,837.1	6,831.3	6,729.3	12.2	18.4	-67.44	121.2	-798.7	686.9	662.9	23.99		28.632	
7,000.0	6,901.2	6,955.4	6,826.3	12.5	18.7	-68.34	47.2	-819.9	700.0	675.7	24.36		28.734	
7,100.0	6,951.1	7,087.2	6,909.7	12.9	19.1	-69.24	-52.8	-838.2	710.8	685.7	25.13		28.284	
7,200.0	6,985.3	7,225.5	6,970.9	13.5	19.7	-70.14	-175.7	-851.7	718.3	691.9	26.42		27.185	
7,300.0	7,002.8	7,367.9	7,002.1	14.3	20.5	-71.04	-314.1	-858.5	722.0	693.7	28.26		25.552	
7,400.0	7,005.0	7,485.6	7,005.0	15.3	21.3	-71.94	-431.7	-859.1	722.3	691.9	30.33		23.811	
7,500.0	7,005.0	7,585.6	7,005.0	16.4	22.1	-72.84	-531.7	-859.1	722.3	689.7	32.57		22.173	
7,600.0	7,005.0	7,685.6	7,005.0	17.6	23.0	-73.74	-631.7	-859.1	722.3	687.2	35.02		20.624	
7,700.0	7,005.0	7,785.6	7,005.0	18.9	24.0	-74.64	-731.7	-859.1	722.3	684.6	37.64		19.191	
7,800.0	7,005.0	7,885.6	7,005.0	20.3	25.1	-75.54	-831.7	-859.1	722.3	681.9	40.39		17.884	
7,900.0	7,005.0	7,985.6	7,005.0	21.7	26.3	-76.44	-931.7	-859.1	722.3	679.0	43.25		16.701	
8,000.0	7,005.0	8,085.6	7,005.0	23.2	27.5	-77.34	-1,031.7	-859.1	722.3	676.1	46.20		15.635	
8,100.0	7,005.0	8,185.6	7,005.0	24.7	28.8	-78.24	-1,131.7	-859.1	722.3	673.0	49.22		14.674	
8,200.0	7,005.0	8,285.6	7,005.0	26.2	30.1	-79.14	-1,231.7	-859.1	722.3	670.0	52.30		13.809	
8,300.0	7,005.0	8,385.6	7,005.0	27.8	31.5	-80.04	-1,331.7	-859.1	722.3	666.8	55.44		13.029	
8,400.0	7,005.0	8,485.6	7,005.0	29.4	32.9	-80.94	-1,431.7	-859.1	722.3	663.6	58.61		12.323	
8,500.0	7,005.0	8,585.6	7,005.0	31.0	34.3	-81.84	-1,531.7	-859.1	722.3	660.4	61.82		11.683	
8,600.0	7,005.0	8,685.6	7,005.0	32.6	35.8	-82.74	-1,631.7	-859.1	722.3	657.2	65.07		11.100	
8,700.0	7,005.0	8,785.6	7,005.0	34.2	37.3	-83.64	-1,731.7	-859.1	722.3	653.9	68.33		10.569	
8,800.0	7,005.0	8,885.6	7,005.0	35.9	38.8	-84.54	-1,831.7	-859.1	722.3	650.6	71.63		10.084	
8,900.0	7,005.0	8,985.6	7,005.0	37.5	40.3	-85.44	-1,931.7	-859.1	722.3	647.3	74.94		9.638	
9,000.0	7,005.0	9,085.6	7,005.0	39.2	41.9	-86.34	-2,031.7	-859.1	722.3	644.0	78.26		9.229	
9,100.0	7,005.0	9,185.6	7,005.0	40.9	43.4	-87.24	-2,131.7	-859.1	722.3	640.6	81.61		8.850	
9,200.0	7,005.0	9,285.6	7,005.0	42.5	45.0	-88.14	-2,231.7	-859.1	722.3	637.3	84.96		8.501	
9,300.0	7,005.0	9,385.6	7,005.0	44.2	46.6	-89.04	-2,331.7	-859.1	722.3	633.9	88.33		8.177	
9,400.0	7,005.0	9,485.6	7,005.0	45.9	48.2	-89.94	-2,431.7	-859.1	722.3	630.5	91.71		7.876	
9,500.0	7,005.0	9,585.6	7,005.0	47.6	49.8	-90.84	-2,531.7	-859.1	722.3	627.2	95.10		7.595	
9,600.0	7,005.0	9,685.6	7,005.0	49.3	51.4	-91.74	-2,631.7	-859.1	722.3	623.8	98.49		7.333	
9,700.0	7,005.0	9,785.6	7,005.0	51.0	53.1	-92.64	-2,731.7	-859.1	722.3	620.4	101.89		7.088	
9,800.0	7,005.0	9,885.6	7,005.0	52.7	54.7	-93.54	-2,831.7	-859.1	722.3	617.0	105.30		6.859	
9,900.0	7,005.0	9,985.6	7,005.0	54.4	56.4	-94.44	-2,931.7	-859.1	722.3	613.5	108.72		6.643	
10,000.0	7,005.0	10,085.6	7,005.0	56.1	58.0	-95.34	-3,031.7	-859.1	722.3	610.1	112.14		6.441	
10,100.0	7,005.0	10,185.6	7,005.0	57.8	59.7	-96.24	-3,131.7	-859.1	722.3	606.7	115.57		6.250	
10,200.0	7,005.0	10,285.6	7,005.0	59.5	61.3	-97.14	-3,231.7	-859.1	722.3	603.3	119.00		6.069	
10,300.0	7,005.0	10,385.6	7,005.0	61.3	63.0	-98.04	-3,331.7	-859.1	722.3	599.8	122.44		5.899	

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 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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			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
10,400.0	7,005.0	10,485.6	7,005.0	63.0	64.7	91.51	-3,431.7	-859.1	722.3	596.4	125.88	5.738	
10,500.0	7,005.0	10,585.6	7,005.0	64.7	66.4	91.51	-3,531.7	-859.1	722.3	592.9	129.32	5.585	
10,600.0	7,005.0	10,685.6	7,005.0	66.4	68.0	91.51	-3,631.7	-859.1	722.3	589.5	132.77	5.440	
10,700.0	7,005.0	10,785.6	7,005.0	68.1	69.7	91.51	-3,731.7	-859.1	722.3	586.0	136.22	5.302	
10,800.0	7,005.0	10,885.6	7,005.0	69.9	71.4	91.51	-3,831.7	-859.1	722.3	582.6	139.67	5.171	
10,900.0	7,005.0	10,985.6	7,005.0	71.6	73.1	91.51	-3,931.7	-859.1	722.3	579.1	143.12	5.046	
11,000.0	7,005.0	11,085.6	7,005.0	73.3	74.8	91.51	-4,031.7	-859.1	722.3	575.7	146.58	4.927	
11,100.0	7,005.0	11,185.6	7,005.0	75.1	76.5	91.51	-4,131.7	-859.1	722.3	572.2	150.04	4.814	
11,200.0	7,005.0	11,285.6	7,005.0	76.8	78.2	91.51	-4,231.7	-859.1	722.3	568.8	153.50	4.705	
11,300.0	7,005.0	11,385.6	7,005.0	78.5	79.9	91.51	-4,331.7	-859.1	722.3	565.3	156.97	4.601	
11,400.0	7,005.0	11,485.6	7,005.0	80.2	81.6	91.51	-4,431.7	-859.1	722.3	561.8	160.43	4.502	
11,500.0	7,005.0	11,585.6	7,005.0	82.0	83.3	91.51	-4,531.7	-859.1	722.3	558.4	163.90	4.407	
11,501.3	7,005.0	11,586.9	7,005.0	82.0	83.3	91.51	-4,533.0	-859.1	722.3	558.3	163.95	4.405	
11,510.8	7,005.0	11,596.4	7,005.0	82.2	83.5	91.51	-4,542.5	-859.1	722.3	558.0	164.28	4.397	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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		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	87.79	32.8	847.8	848.4					
100.0	100.0	100.0	100.0	0.2	0.2	87.79	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	87.79	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	87.79	32.8	847.8	848.4	847.4	1.00	846.876		
400.0	400.0	400.0	400.0	0.7	0.7	87.79	32.8	847.8	848.4	847.1	1.35	628.045		
500.0	500.0	500.0	500.0	0.8	0.8	87.79	32.8	847.8	848.4	846.7	1.70	499.083		
600.0	600.0	600.0	600.0	1.0	1.0	87.79	32.8	847.8	848.4	846.4	2.05	414.061		
700.0	700.0	700.0	700.0	1.2	1.2	87.79	32.8	847.8	848.4	846.0	2.40	353.790		
800.0	800.0	800.0	800.0	1.4	1.4	87.79	32.8	847.8	848.4	845.7	2.75	308.836		
900.0	900.0	900.0	900.0	1.5	1.5	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	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	87.79	32.8	847.8	848.4	831.0	17.41	48.737		
5,100.0	5,100.0	5,141.4	5,141.3	8.9	9.0	113.41	36.6	844.2	847.0	829.2	17.83	47.510		

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 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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		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	5,282.4	5,281.4	9.1	9.2	113.41	47.9	833.4	842.8	824.6	18.25	46.178		
5,300.0	5,298.8	5,422.7	5,419.3	9.2	9.5	113.42	66.6	815.7	835.9	817.2	18.69	44.718		
5,400.0	5,397.3	5,526.1	5,520.0	9.4	9.7	113.36	83.5	799.6	827.6	808.5	19.09	43.348		
5,500.0	5,495.9	5,625.7	5,617.0	9.6	10.0	113.26	99.9	784.1	819.3	799.8	19.50	42.011		
5,600.0	5,594.4	5,725.4	5,714.1	9.9	10.2	113.15	116.2	768.6	811.1	791.2	19.93	40.701		
5,700.0	5,693.0	5,825.0	5,811.2	10.1	10.5	113.03	132.5	753.1	802.9	782.5	20.37	39.418		
5,800.0	5,791.5	5,924.7	5,908.3	10.3	10.7	112.92	148.9	737.6	794.7	773.9	20.82	38.167		
5,900.0	5,890.1	6,024.3	6,005.3	10.5	11.0	112.80	165.2	722.1	786.5	765.2	21.29	36.947		
6,000.0	5,988.6	6,124.0	6,102.4	10.8	11.3	112.68	181.6	706.6	778.2	756.5	21.76	35.761		
6,100.0	6,087.2	6,223.6	6,199.5	11.0	11.6	112.56	197.9	691.1	770.0	747.8	22.25	34.608		
6,200.0	6,185.7	6,323.3	6,296.5	11.3	11.9	112.44	214.3	675.5	761.8	739.1	22.75	33.490		
6,300.0	6,284.3	6,428.2	6,399.0	11.5	12.2	112.49	229.0	659.2	753.5	730.2	23.24	32.424		
6,400.0	6,383.0	6,535.4	6,504.7	11.8	12.5	127.54	226.6	642.3	744.1	720.5	23.59	31.544		
6,500.0	6,482.6	6,638.0	6,603.7	11.9	12.6	-132.78	205.7	626.5	734.9	711.2	23.77	30.925		
6,600.0	6,580.7	6,736.8	6,694.2	12.0	12.7	-107.19	168.9	612.0	726.5	702.6	23.82	30.496		
6,700.0	6,674.3	6,832.4	6,774.5	12.1	12.8	-100.29	119.0	599.2	718.9	695.1	23.86	30.136		
6,800.0	6,760.7	6,925.1	6,843.6	12.1	12.9	-96.88	58.2	588.1	712.5	688.5	23.98	29.715		
6,900.0	6,837.1	7,015.4	6,900.7	12.2	13.2	-94.70	-11.0	579.0	707.3	683.0	24.29	29.116		
7,000.0	6,901.2	7,103.6	6,945.4	12.5	13.5	-93.10	-86.6	571.9	703.4	678.6	24.89	28.265		
7,100.0	6,951.1	7,190.3	6,977.7	12.9	14.0	-91.88	-166.8	566.7	700.8	675.0	25.82	27.145		
7,200.0	6,985.3	7,275.6	6,997.5	13.5	14.6	-90.92	-249.6	563.5	699.5	672.4	27.08	25.827		
7,264.9	6,998.6	7,330.3	7,003.7	14.0	15.1	-90.43	-304.0	562.6	699.3	671.2	28.09	24.896 CC		
7,300.0	7,002.8	7,359.8	7,004.9	14.3	15.4	-90.20	-333.5	562.4	699.3	670.7	28.64	24.417		
7,400.0	7,005.0	7,458.1	7,005.0	15.3	16.3	-90.00	-431.7	562.4	699.5	668.8	30.64	22.829		
7,500.0	7,005.0	7,558.1	7,005.0	16.4	17.4	-90.00	-531.7	562.4	699.5	666.6	32.91	21.252		
7,600.0	7,005.0	7,658.1	7,005.0	17.6	18.6	-90.00	-631.7	562.4	699.5	664.1	35.39	19.766		
7,700.0	7,005.0	7,758.1	7,005.0	18.9	19.9	-90.00	-731.7	562.4	699.5	661.5	38.03	18.394		
7,800.0	7,005.0	7,858.1	7,005.0	20.3	21.3	-90.00	-831.7	562.4	699.5	658.7	40.80	17.145		
7,900.0	7,005.0	7,958.1	7,005.0	21.7	22.7	-90.00	-931.7	562.4	699.5	655.8	43.67	16.016		
8,000.0	7,005.0	8,058.1	7,005.0	23.2	24.1	-90.00	-1,031.7	562.4	699.5	652.9	46.64	14.999		
8,100.0	7,005.0	8,158.1	7,005.0	24.7	25.6	-90.00	-1,131.7	562.4	699.5	649.8	49.67	14.083		
8,200.0	7,005.0	8,258.1	7,005.0	26.2	27.1	-90.00	-1,231.7	562.4	699.5	646.7	52.76	13.257		
8,300.0	7,005.0	8,358.1	7,005.0	27.8	28.7	-90.00	-1,331.7	562.4	699.5	643.6	55.91	12.512		
8,400.0	7,005.0	8,458.1	7,005.0	29.4	30.2	-90.00	-1,431.7	562.4	699.5	640.4	59.09	11.838		
8,500.0	7,005.0	8,558.1	7,005.0	31.0	31.8	-90.00	-1,531.7	562.4	699.5	637.2	62.31	11.227		
8,600.0	7,005.0	8,658.1	7,005.0	32.6	33.4	-90.00	-1,631.7	562.4	699.5	634.0	65.56	10.670		
8,700.0	7,005.0	8,758.1	7,005.0	34.2	35.1	-90.00	-1,731.7	562.4	699.5	630.7	68.83	10.163		
8,800.0	7,005.0	8,858.1	7,005.0	35.9	36.7	-90.00	-1,831.7	562.4	699.5	627.4	72.13	9.699		
8,900.0	7,005.0	8,958.1	7,005.0	37.5	38.3	-90.00	-1,931.7	562.4	699.5	624.1	75.44	9.273		
9,000.0	7,005.0	9,058.1	7,005.0	39.2	40.0	-90.00	-2,031.7	562.4	699.5	620.8	78.77	8.880		
9,100.0	7,005.0	9,158.1	7,005.0	40.9	41.6	-90.00	-2,131.7	562.4	699.5	617.4	82.12	8.519		
9,200.0	7,005.0	9,258.1	7,005.0	42.5	43.3	-90.00	-2,231.7	562.4	699.5	614.1	85.48	8.184		
9,300.0	7,005.0	9,358.1	7,005.0	44.2	45.0	-90.00	-2,331.7	562.4	699.5	610.7	88.85	7.873		
9,400.0	7,005.0	9,458.1	7,005.0	45.9	46.7	-90.00	-2,431.7	562.4	699.5	607.3	92.23	7.585		
9,500.0	7,005.0	9,558.1	7,005.0	47.6	48.4	-90.00	-2,531.7	562.4	699.6	603.9	95.62	7.316		
9,600.0	7,005.0	9,658.1	7,005.0	49.3	50.0	-90.00	-2,631.7	562.4	699.6	600.5	99.02	7.065		
9,700.0	7,005.0	9,758.1	7,005.0	51.0	51.7	-90.00	-2,731.7	562.4	699.6	597.1	102.42	6.830		
9,800.0	7,005.0	9,858.1	7,005.0	52.7	53.4	-90.00	-2,831.7	562.4	699.6	593.7	105.84	6.610		
9,900.0	7,005.0	9,958.1	7,005.0	54.4	55.1	-90.00	-2,931.7	562.4	699.6	590.3	109.26	6.403		
10,000.0	7,005.0	10,058.1	7,005.0	56.1	56.8	-90.00	-3,031.7	562.4	699.6	586.9	112.68	6.208		
10,100.0	7,005.0	10,158.1	7,005.0	57.8	58.6	-90.00	-3,131.7	562.4	699.6	583.5	116.11	6.025		
10,200.0	7,005.0	10,258.1	7,005.0	59.5	60.3	-90.00	-3,231.7	562.4	699.6	580.0	119.54	5.852		

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 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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		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	10,358.1	7,005.0	61.3	62.0	-90.00	-3,331.7	562.5	699.6	576.6	122.98	5.689		
10,400.0	7,005.0	10,458.1	7,005.0	63.0	63.7	-90.00	-3,431.7	562.5	699.6	573.2	126.42	5.534		
10,500.0	7,005.0	10,558.1	7,005.0	64.7	65.4	-90.00	-3,531.7	562.5	699.6	569.7	129.87	5.387		
10,600.0	7,005.0	10,658.1	7,005.0	66.4	67.1	-90.00	-3,631.7	562.5	699.6	566.3	133.32	5.248		
10,700.0	7,005.0	10,758.1	7,005.0	68.1	68.9	-90.00	-3,731.7	562.5	699.6	562.8	136.77	5.115		
10,800.0	7,005.0	10,858.1	7,005.0	69.9	70.6	-90.00	-3,831.7	562.5	699.6	559.4	140.22	4.989		
10,900.0	7,005.0	10,958.1	7,005.0	71.6	72.3	-90.00	-3,931.7	562.5	699.6	555.9	143.68	4.869		
11,000.0	7,005.0	11,058.1	7,005.0	73.3	74.0	-90.00	-4,031.7	562.5	699.6	552.5	147.14	4.755		
11,100.0	7,005.0	11,158.1	7,005.0	75.1	75.8	-90.00	-4,131.7	562.5	699.6	549.0	150.60	4.645		
11,200.0	7,005.0	11,258.1	7,005.0	76.8	77.5	-90.00	-4,231.7	562.5	699.6	545.5	154.06	4.541		
11,300.0	7,005.0	11,358.1	7,005.0	78.5	79.2	-90.00	-4,331.7	562.5	699.6	542.1	157.53	4.441		
11,400.0	7,005.0	11,458.1	7,005.0	80.2	80.9	-90.00	-4,431.7	562.5	699.6	538.6	161.00	4.346		
11,500.0	7,005.0	11,558.1	7,005.0	82.0	82.7	-90.00	-4,531.7	562.5	699.6	535.2	164.47	4.254		
11,510.8	7,005.0	11,568.9	7,005.0	82.2	82.9	-90.00	-4,542.5	562.5	699.6	534.8	164.84	4.244 ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Flanigan 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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	87.61	36.4	873.0	873.7					
100.0	100.0	100.0	100.0	0.2	0.2	87.61	36.4	873.0	873.7	873.4	0.30	2,877.052		
200.0	200.0	200.0	200.0	0.3	0.3	87.61	36.4	873.0	873.7	873.1	0.65	1,338.522		
300.0	300.0	300.0	300.0	0.5	0.5	87.61	36.4	873.0	873.7	872.7	1.00	872.138		
400.0	400.0	400.0	400.0	0.7	0.7	87.61	36.4	873.0	873.7	872.4	1.35	646.780		
500.0	500.0	500.0	500.0	0.8	0.8	87.61	36.4	873.0	873.7	872.0	1.70	513.971		
600.0	600.0	600.0	600.0	1.0	1.0	87.61	36.4	873.0	873.7	871.7	2.05	426.412		
700.0	700.0	700.0	700.0	1.2	1.2	87.61	36.4	873.0	873.7	871.3	2.40	364.343		
800.0	800.0	800.0	800.0	1.4	1.4	87.61	36.4	873.0	873.7	871.0	2.75	318.048		
900.0	900.0	900.0	900.0	1.5	1.5	87.61	36.4	873.0	873.7	870.6	3.10	282.191		
1,000.0	1,000.0	1,000.0	1,000.0	1.7	1.7	87.61	36.4	873.0	873.7	870.3	3.45	253.601		
1,100.0	1,100.0	1,100.0	1,100.0	1.9	1.9	87.61	36.4	873.0	873.7	869.9	3.79	230.270		
1,200.0	1,200.0	1,200.0	1,200.0	2.1	2.1	87.61	36.4	873.0	873.7	869.6	4.14	210.871		
1,300.0	1,300.0	1,300.0	1,300.0	2.2	2.2	87.61	36.4	873.0	873.7	869.2	4.49	194.486		
1,400.0	1,400.0	1,400.0	1,400.0	2.4	2.4	87.61	36.4	873.0	873.7	868.9	4.84	180.464		
1,500.0	1,500.0	1,500.0	1,500.0	2.6	2.6	87.61	36.4	873.0	873.7	868.5	5.19	168.328		
1,600.0	1,600.0	1,600.0	1,600.0	2.8	2.8	87.61	36.4	873.0	873.7	868.2	5.54	157.721		
1,700.0	1,700.0	1,700.0	1,700.0	2.9	2.9	87.61	36.4	873.0	873.7	867.8	5.89	148.372		
1,800.0	1,800.0	1,800.0	1,800.0	3.1	3.1	87.61	36.4	873.0	873.7	867.5	6.24	140.069		
1,900.0	1,900.0	1,900.0	1,900.0	3.3	3.3	87.61	36.4	873.0	873.7	867.1	6.59	132.646		
2,000.0	2,000.0	2,000.0	2,000.0	3.5	3.5	87.61	36.4	873.0	873.7	866.8	6.94	125.971		
2,100.0	2,100.0	2,100.0	2,100.0	3.6	3.6	87.61	36.4	873.0	873.7	866.4	7.29	119.935		
2,200.0	2,200.0	2,200.0	2,200.0	3.8	3.8	87.61	36.4	873.0	873.7	866.1	7.63	114.451		
2,300.0	2,300.0	2,300.0	2,300.0	4.0	4.0	87.61	36.4	873.0	873.7	865.7	7.98	109.446		
2,400.0	2,400.0	2,400.0	2,400.0	4.2	4.2	87.61	36.4	873.0	873.7	865.4	8.33	104.861		
2,500.0	2,500.0	2,500.0	2,500.0	4.3	4.3	87.61	36.4	873.0	873.7	865.0	8.68	100.645		
2,600.0	2,600.0	2,600.0	2,600.0	4.5	4.5	87.61	36.4	873.0	873.7	864.7	9.03	96.754		
2,700.0	2,700.0	2,700.0	2,700.0	4.7	4.7	87.61	36.4	873.0	873.7	864.3	9.38	93.154		
2,800.0	2,800.0	2,800.0	2,800.0	4.9	4.9	87.61	36.4	873.0	873.7	864.0	9.73	89.811		
2,900.0	2,900.0	2,900.0	2,900.0	5.0	5.0	87.61	36.4	873.0	873.7	863.6	10.08	86.700		
3,000.0	3,000.0	3,000.0	3,000.0	5.2	5.2	87.61	36.4	873.0	873.7	863.3	10.43	83.798		
3,100.0	3,100.0	3,100.0	3,100.0	5.4	5.4	87.61	36.4	873.0	873.7	862.9	10.78	81.083		
3,200.0	3,200.0	3,200.0	3,200.0	5.6	5.6	87.61	36.4	873.0	873.7	862.6	11.12	78.539		
3,300.0	3,300.0	3,300.0	3,300.0	5.7	5.7	87.61	36.4	873.0	873.7	862.3	11.47	76.150		
3,400.0	3,400.0	3,400.0	3,400.0	5.9	5.9	87.61	36.4	873.0	873.7	861.9	11.82	73.901		
3,500.0	3,500.0	3,500.0	3,500.0	6.1	6.1	87.61	36.4	873.0	873.7	861.6	12.17	71.782		
3,600.0	3,600.0	3,600.0	3,600.0	6.3	6.3	87.61	36.4	873.0	873.7	861.2	12.52	69.781		
3,700.0	3,700.0	3,700.0	3,700.0	6.4	6.4	87.61	36.4	873.0	873.7	860.9	12.87	67.888		
3,800.0	3,800.0	3,800.0	3,800.0	6.6	6.6	87.61	36.4	873.0	873.7	860.5	13.22	66.096		
3,900.0	3,900.0	3,900.0	3,900.0	6.8	6.8	87.61	36.4	873.0	873.7	860.2	13.57	64.395		
4,000.0	4,000.0	4,000.0	4,000.0	7.0	7.0	87.61	36.4	873.0	873.7	859.8	13.92	62.780		
4,100.0	4,100.0	4,100.0	4,100.0	7.1	7.1	87.61	36.4	873.0	873.7	859.5	14.27	61.244		
4,200.0	4,200.0	4,200.0	4,200.0	7.3	7.3	87.61	36.4	873.0	873.7	859.1	14.62	59.781		
4,300.0	4,300.0	4,300.0	4,300.0	7.5	7.5	87.61	36.4	873.0	873.7	858.8	14.96	58.387		
4,400.0	4,400.0	4,400.0	4,400.0	7.7	7.7	87.61	36.4	873.0	873.7	858.4	15.31	57.056		
4,500.0	4,500.0	4,500.0	4,500.0	7.8	7.8	87.61	36.4	873.0	873.7	858.1	15.66	55.784		
4,600.0	4,600.0	4,600.0	4,600.0	8.0	8.0	87.61	36.4	873.0	873.7	857.7	16.01	54.568		
4,700.0	4,700.0	4,700.0	4,700.0	8.2	8.2	87.61	36.4	873.0	873.7	857.4	16.36	53.404		
4,800.0	4,800.0	4,800.0	4,800.0	8.4	8.4	87.61	36.4	873.0	873.7	857.0	16.71	52.288		
4,900.0	4,900.0	4,900.0	4,900.0	8.5	8.5	87.61	36.4	873.0	873.7	856.7	17.06	51.218		
5,000.0	5,000.0	5,000.0	5,000.0	8.7	8.7	87.61	36.4	873.0	873.7	856.3	17.41	50.191 CC, ES		
5,100.0	5,100.0	5,073.1	5,073.0	8.9	8.8	113.22	37.3	874.1	876.3	858.6	17.71	49.486		

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 1B-6H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5029.0ft (Original Well Elev)
Reference Site:	NWNE S6-T1N-R64W (Flanigan)	MD Reference:	WELL @ 5029.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Flanigan 1B-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

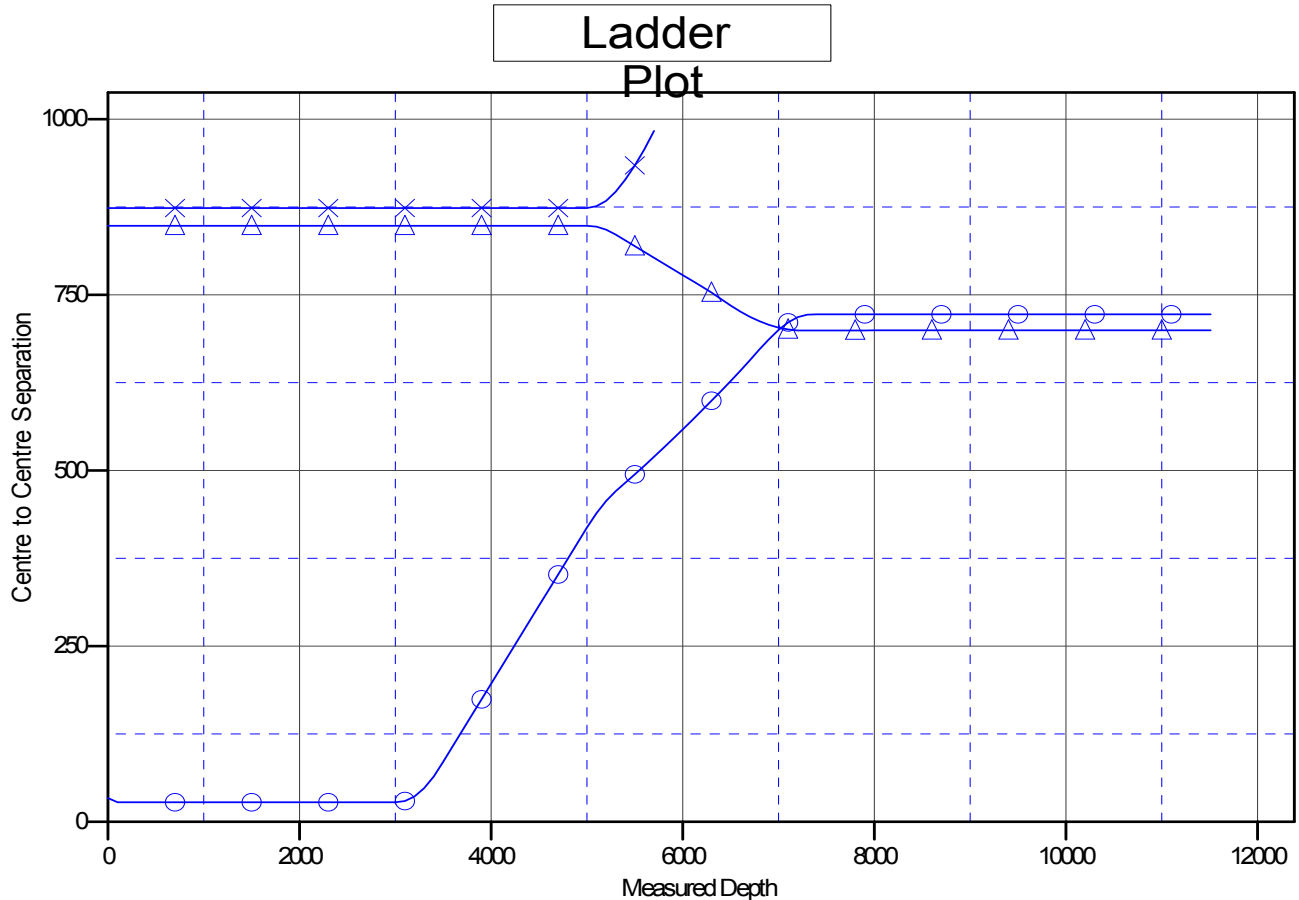
Offset Design NWNE S6-T1N-R64W (Flanigan) - Flanigan 1D-6H - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	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)			
5,200.0	5,199.6	5,145.8	5,145.7	9.1	9.0	113.19	39.9	877.3	884.0	866.0	18.01	49.096	
5,300.0	5,298.8	5,218.0	5,217.5	9.2	9.1	113.13	44.2	882.6	896.8	878.5	18.30	48.992 SF	
5,400.0	5,397.3	5,300.0	5,298.8	9.4	9.2	113.40	51.2	891.3	914.1	895.5	18.64	49.045	
5,500.0	5,495.9	5,360.1	5,358.0	9.6	9.4	113.59	57.7	899.3	934.3	915.4	18.95	49.309	
5,600.0	5,594.4	5,430.1	5,426.5	9.9	9.5	113.72	66.7	910.5	957.4	938.2	19.29	49.646	
5,700.0	5,693.0	5,500.0	5,494.3	10.1	9.7	113.74	77.3	923.6	983.3	963.7	19.63	50.088	

Anticollision Report

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

Coordinates are relative to: Flanigan 1B-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 1C-6H, Hz, Plan #1 V0