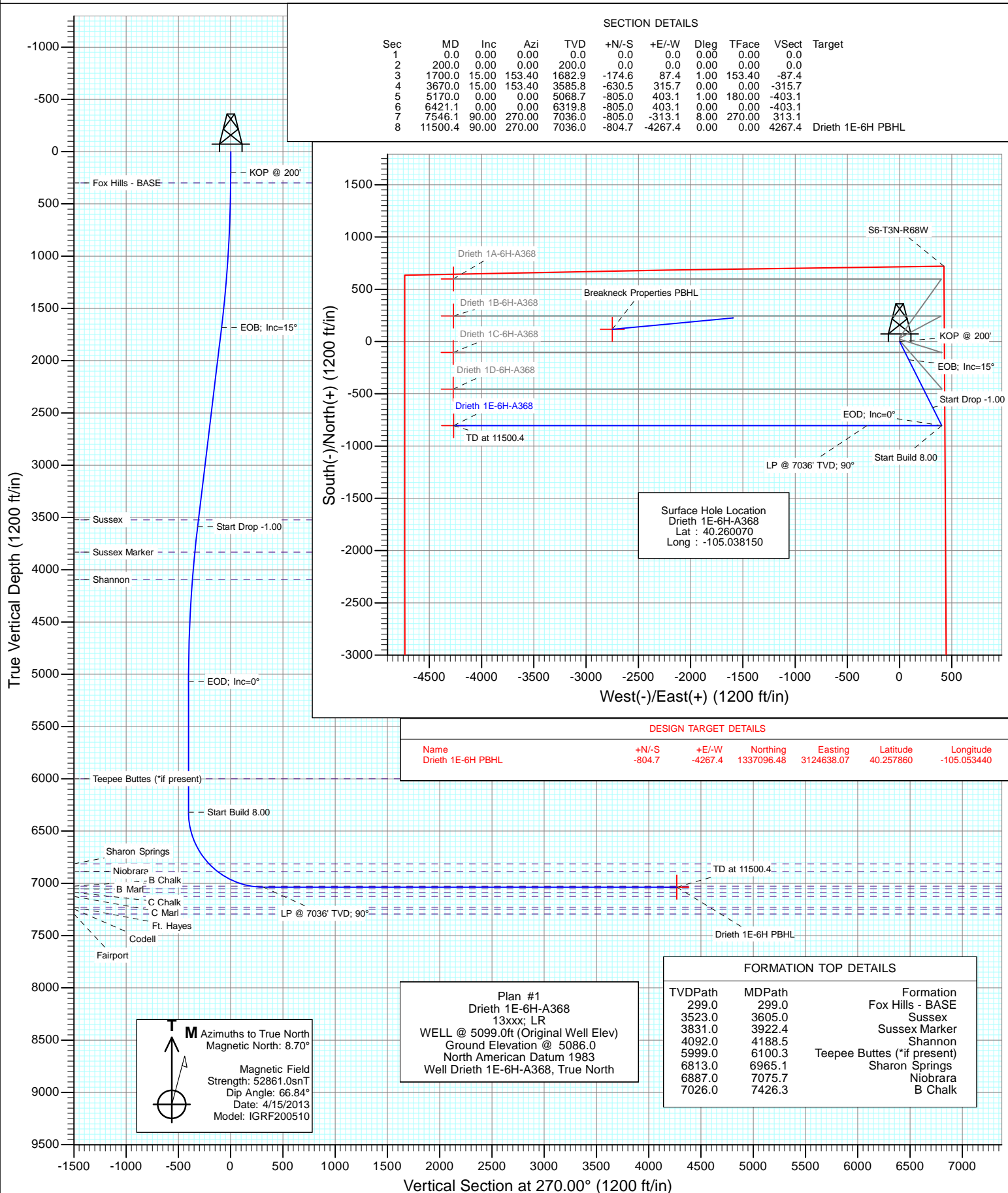




Project: DJ Wattenberg
Site: S6-T3N-R68W (Zisch/Drieth 1)
Well: Drieth 1E-6H-A368
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1E-6H-A368	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		S6-T3N-R68W (Zisch/Drieth 1)			
Site Position:		Northing:	1,333,692.15 ft	Latitude:	40.248510
From:	Lat/Long	Easting:	3,124,995.76 ft	Longitude:	-105.052220
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.29 °

Well	Drieth 1E-6H-A368					
Well Position	+N/-S	0.0 ft	Northing:	1,337,923.39 ft	Latitude:	40.260070
	+E/-W	0.0 ft	Easting:	3,128,901.18 ft	Longitude:	-105.038150
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,086.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/15/2013	8.70	66.84	52,861

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	270.00

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	15.00	153.40	1,682.9	-174.6	87.4	1.00	1.00	0.00	153.40	
3,670.0	15.00	153.40	3,585.8	-630.5	315.7	0.00	0.00	0.00	0.00	
5,170.0	0.00	0.00	5,068.7	-805.0	403.1	1.00	-1.00	0.00	180.00	
6,421.1	0.00	0.00	6,319.8	-805.0	403.1	0.00	0.00	0.00	0.00	
7,546.1	90.00	270.00	7,036.0	-805.0	-313.1	8.00	8.00	0.00	270.00	
11,500.4	90.00	270.00	7,036.0	-804.7	-4,267.4	0.00	0.00	0.00	0.00	Drieth 1E-6H PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1E-6H-A368	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	KOP @ 200'
299.0	0.99	153.40	299.0	-0.8	0.4	-0.4	1.00	1.00	Fox Hills - BASE
300.0	1.00	153.40	300.0	-0.8	0.4	-0.4	1.00	1.00	
400.0	2.00	153.40	400.0	-3.1	1.6	-1.6	1.00	1.00	
500.0	3.00	153.40	499.9	-7.0	3.5	-3.5	1.00	1.00	
600.0	4.00	153.40	599.7	-12.5	6.2	-6.2	1.00	1.00	
700.0	5.00	153.40	699.4	-19.5	9.8	-9.8	1.00	1.00	
800.0	6.00	153.40	798.9	-28.1	14.1	-14.1	1.00	1.00	
900.0	7.00	153.40	898.3	-38.2	19.1	-19.1	1.00	1.00	
1,000.0	8.00	153.40	997.4	-49.9	25.0	-25.0	1.00	1.00	
1,100.0	9.00	153.40	1,096.3	-63.1	31.6	-31.6	1.00	1.00	
1,200.0	10.00	153.40	1,194.9	-77.8	39.0	-39.0	1.00	1.00	
1,300.0	11.00	153.40	1,293.3	-94.1	47.1	-47.1	1.00	1.00	
1,400.0	12.00	153.40	1,391.2	-112.0	56.1	-56.1	1.00	1.00	
1,500.0	13.00	153.40	1,488.9	-131.3	65.8	-65.8	1.00	1.00	
1,600.0	14.00	153.40	1,586.1	-152.2	76.2	-76.2	1.00	1.00	
1,700.0	15.00	153.40	1,682.9	-174.6	87.4	-87.4	1.00	1.00	EOB; Inc=15°
1,800.0	15.00	153.40	1,779.5	-197.7	99.0	-99.0	0.00	0.00	
1,900.0	15.00	153.40	1,876.1	-220.9	110.6	-110.6	0.00	0.00	
2,000.0	15.00	153.40	1,972.7	-244.0	122.2	-122.2	0.00	0.00	
2,100.0	15.00	153.40	2,069.3	-267.1	133.8	-133.8	0.00	0.00	
2,200.0	15.00	153.40	2,165.9	-290.3	145.4	-145.4	0.00	0.00	
2,300.0	15.00	153.40	2,262.5	-313.4	156.9	-156.9	0.00	0.00	
2,400.0	15.00	153.40	2,359.1	-336.6	168.5	-168.5	0.00	0.00	
2,500.0	15.00	153.40	2,455.7	-359.7	180.1	-180.1	0.00	0.00	
2,600.0	15.00	153.40	2,552.3	-382.8	191.7	-191.7	0.00	0.00	
2,700.0	15.00	153.40	2,648.8	-406.0	203.3	-203.3	0.00	0.00	
2,800.0	15.00	153.40	2,745.4	-429.1	214.9	-214.9	0.00	0.00	
2,900.0	15.00	153.40	2,842.0	-452.3	226.5	-226.5	0.00	0.00	
3,000.0	15.00	153.40	2,938.6	-475.4	238.1	-238.1	0.00	0.00	
3,100.0	15.00	153.40	3,035.2	-498.6	249.7	-249.7	0.00	0.00	
3,200.0	15.00	153.40	3,131.8	-521.7	261.2	-261.2	0.00	0.00	
3,300.0	15.00	153.40	3,228.4	-544.8	272.8	-272.8	0.00	0.00	
3,400.0	15.00	153.40	3,325.0	-568.0	284.4	-284.4	0.00	0.00	
3,500.0	15.00	153.40	3,421.6	-591.1	296.0	-296.0	0.00	0.00	
3,600.0	15.00	153.40	3,518.2	-614.3	307.6	-307.6	0.00	0.00	
3,605.0	15.00	153.40	3,523.0	-615.4	308.2	-308.2	0.00	0.00	Sussex
3,670.0	15.00	153.40	3,585.8	-630.5	315.7	-315.7	0.00	0.00	Start Drop -1.00
3,700.0	14.70	153.40	3,614.8	-637.3	319.2	-319.2	1.00	-1.00	
3,800.0	13.70	153.40	3,711.7	-659.3	330.1	-330.1	1.00	-1.00	
3,900.0	12.70	153.40	3,809.1	-679.7	340.4	-340.4	1.00	-1.00	
3,922.4	12.48	153.40	3,831.0	-684.1	342.6	-342.6	1.00	-1.00	Sussex Marker
4,000.0	11.70	153.40	3,906.8	-698.6	349.8	-349.8	1.00	-1.00	
4,100.0	10.70	153.40	4,004.9	-716.0	358.5	-358.5	1.00	-1.00	
4,188.5	9.82	153.40	4,092.0	-730.1	365.6	-365.6	1.00	-1.00	Shannon
4,200.0	9.70	153.40	4,103.3	-731.8	366.5	-366.5	1.00	-1.00	
4,300.0	8.70	153.40	4,202.1	-746.1	373.6	-373.6	1.00	-1.00	
4,400.0	7.70	153.40	4,301.0	-758.8	380.0	-380.0	1.00	-1.00	
4,500.0	6.70	153.40	4,400.2	-770.1	385.6	-385.6	1.00	-1.00	
4,600.0	5.70	153.40	4,499.7	-779.7	390.4	-390.4	1.00	-1.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1E-6H-A368	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
4,700.0	4.70	153.40	4,599.2	-787.8	394.5	-394.5	1.00	-1.00	
4,800.0	3.70	153.40	4,699.0	-794.4	397.8	-397.8	1.00	-1.00	
4,900.0	2.70	153.40	4,798.8	-799.4	400.3	-400.3	1.00	-1.00	
5,000.0	1.70	153.40	4,898.7	-802.8	402.0	-402.0	1.00	-1.00	
5,100.0	0.70	153.40	4,998.7	-804.7	402.9	-402.9	1.00	-1.00	
5,170.0	0.00	0.00	5,068.7	-805.0	403.1	-403.1	1.00	-1.00	EOD; Inc=0°
5,200.0	0.00	0.00	5,098.7	-805.0	403.1	-403.1	0.00	0.00	
5,300.0	0.00	0.00	5,198.7	-805.0	403.1	-403.1	0.00	0.00	
5,400.0	0.00	0.00	5,298.7	-805.0	403.1	-403.1	0.00	0.00	
5,500.0	0.00	0.00	5,398.7	-805.0	403.1	-403.1	0.00	0.00	
5,600.0	0.00	0.00	5,498.7	-805.0	403.1	-403.1	0.00	0.00	
5,700.0	0.00	0.00	5,598.7	-805.0	403.1	-403.1	0.00	0.00	
5,800.0	0.00	0.00	5,698.7	-805.0	403.1	-403.1	0.00	0.00	
5,900.0	0.00	0.00	5,798.7	-805.0	403.1	-403.1	0.00	0.00	
6,000.0	0.00	0.00	5,898.7	-805.0	403.1	-403.1	0.00	0.00	
6,100.0	0.00	0.00	5,998.7	-805.0	403.1	-403.1	0.00	0.00	
6,100.3	0.00	0.00	5,999.0	-805.0	403.1	-403.1	0.00	0.00	Teepee Buttes (*if present)
6,200.0	0.00	0.00	6,098.7	-805.0	403.1	-403.1	0.00	0.00	
6,300.0	0.00	0.00	6,198.7	-805.0	403.1	-403.1	0.00	0.00	
6,400.0	0.00	0.00	6,298.7	-805.0	403.1	-403.1	0.00	0.00	
6,421.1	0.00	0.00	6,319.8	-805.0	403.1	-403.1	0.00	0.00	Start Build 8.00
6,500.0	6.31	270.00	6,398.6	-805.0	398.8	-398.8	8.00	8.00	
6,600.0	14.31	270.00	6,496.9	-805.0	380.9	-380.9	8.00	8.00	
6,700.0	22.31	270.00	6,591.7	-805.0	349.5	-349.5	8.00	8.00	
6,800.0	30.31	270.00	6,681.3	-805.0	305.2	-305.2	8.00	8.00	
6,900.0	38.31	270.00	6,763.8	-805.0	248.9	-248.9	8.00	8.00	
6,965.1	43.52	270.00	6,813.0	-805.0	206.3	-206.3	8.00	8.00	Sharon Springs
7,000.0	46.31	270.00	6,837.7	-805.0	181.6	-181.6	8.00	8.00	
7,075.7	52.37	270.00	6,887.0	-805.0	124.2	-124.2	8.00	8.00	Niobrara
7,100.0	54.31	270.00	6,901.5	-805.0	104.7	-104.7	8.00	8.00	
7,200.0	62.31	270.00	6,954.0	-805.0	19.7	-19.7	8.00	8.00	
7,300.0	70.31	270.00	6,994.1	-805.0	-71.8	71.8	8.00	8.00	
7,400.0	78.31	270.00	7,021.2	-805.0	-168.0	168.0	8.00	8.00	
7,426.3	80.41	270.00	7,026.0	-805.0	-193.8	193.8	8.00	8.00	B Chalk
7,500.0	86.31	270.00	7,034.5	-805.0	-267.0	267.0	8.00	8.00	
7,546.1	90.00	270.00	7,036.0	-805.0	-313.1	313.1	8.00	8.00	LP @ 7036' TVD; 90°
7,600.0	90.00	270.00	7,036.0	-805.0	-367.0	367.0	0.00	0.00	
7,700.0	90.00	270.00	7,036.0	-805.0	-467.0	467.0	0.00	0.00	
7,800.0	90.00	270.00	7,036.0	-805.0	-567.0	567.0	0.00	0.00	
7,900.0	90.00	270.00	7,036.0	-805.0	-667.0	667.0	0.00	0.00	
8,000.0	90.00	270.00	7,036.0	-805.0	-767.0	767.0	0.00	0.00	
8,100.0	90.00	270.00	7,036.0	-804.9	-867.0	867.0	0.00	0.00	
8,200.0	90.00	270.00	7,036.0	-804.9	-967.0	967.0	0.00	0.00	
8,300.0	90.00	270.00	7,036.0	-804.9	-1,067.0	1,067.0	0.00	0.00	
8,400.0	90.00	270.00	7,036.0	-804.9	-1,167.0	1,167.0	0.00	0.00	
8,500.0	90.00	270.00	7,036.0	-804.9	-1,267.0	1,267.0	0.00	0.00	
8,600.0	90.00	270.00	7,036.0	-804.9	-1,367.0	1,367.0	0.00	0.00	
8,700.0	90.00	270.00	7,036.0	-804.9	-1,467.0	1,467.0	0.00	0.00	
8,800.0	90.00	270.00	7,036.0	-804.9	-1,567.0	1,567.0	0.00	0.00	
8,900.0	90.00	270.00	7,036.0	-804.9	-1,667.0	1,667.0	0.00	0.00	
9,000.0	90.00	270.00	7,036.0	-804.9	-1,767.0	1,767.0	0.00	0.00	
9,100.0	90.00	270.00	7,036.0	-804.9	-1,867.0	1,867.0	0.00	0.00	

Planning Report

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Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1E-6H-A368	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,200.0	90.00	270.00	7,036.0	-804.9	-1,967.0	1,967.0	0.00	0.00	
9,300.0	90.00	270.00	7,036.0	-804.9	-2,067.0	2,067.0	0.00	0.00	
9,400.0	90.00	270.00	7,036.0	-804.9	-2,167.0	2,167.0	0.00	0.00	
9,500.0	90.00	270.00	7,036.0	-804.8	-2,267.0	2,267.0	0.00	0.00	
9,600.0	90.00	270.00	7,036.0	-804.8	-2,367.0	2,367.0	0.00	0.00	
9,700.0	90.00	270.00	7,036.0	-804.8	-2,467.0	2,467.0	0.00	0.00	
9,800.0	90.00	270.00	7,036.0	-804.8	-2,567.0	2,567.0	0.00	0.00	
9,900.0	90.00	270.00	7,036.0	-804.8	-2,667.0	2,667.0	0.00	0.00	
10,000.0	90.00	270.00	7,036.0	-804.8	-2,767.0	2,767.0	0.00	0.00	
10,100.0	90.00	270.00	7,036.0	-804.8	-2,867.0	2,867.0	0.00	0.00	
10,200.0	90.00	270.00	7,036.0	-804.8	-2,967.0	2,967.0	0.00	0.00	
10,300.0	90.00	270.00	7,036.0	-804.8	-3,067.0	3,067.0	0.00	0.00	
10,400.0	90.00	270.00	7,036.0	-804.8	-3,167.0	3,167.0	0.00	0.00	
10,500.0	90.00	270.00	7,036.0	-804.8	-3,267.0	3,267.0	0.00	0.00	
10,600.0	90.00	270.00	7,036.0	-804.8	-3,367.0	3,367.0	0.00	0.00	
10,700.0	90.00	270.00	7,036.0	-804.8	-3,467.0	3,467.0	0.00	0.00	
10,800.0	90.00	270.00	7,036.0	-804.7	-3,567.0	3,567.0	0.00	0.00	
10,900.0	90.00	270.00	7,036.0	-804.7	-3,667.0	3,667.0	0.00	0.00	
11,000.0	90.00	270.00	7,036.0	-804.7	-3,767.0	3,767.0	0.00	0.00	
11,100.0	90.00	270.00	7,036.0	-804.7	-3,867.0	3,867.0	0.00	0.00	
11,200.0	90.00	270.00	7,036.0	-804.7	-3,967.0	3,967.0	0.00	0.00	
11,300.0	90.00	270.00	7,036.0	-804.7	-4,067.0	4,067.0	0.00	0.00	
11,400.0	90.00	270.00	7,036.0	-804.7	-4,167.0	4,167.0	0.00	0.00	
11,500.0	90.00	270.00	7,036.0	-804.7	-4,267.0	4,267.0	0.00	0.00	
11,500.4	90.00	270.00	7,036.0	-804.7	-4,267.4	4,267.4	0.00	0.00	TD at 11500.4 - Drieth 1E-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									
Drieth 1E-6H PBHL	0.00	0.00	7,036.0	-804.7	-4,267.4	1,337,096.48	3,124,638.07	40.257860	-105.053440
- plan hits target center									
- Point									

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
299.0	299.0	Fox Hills - BASE			
3,605.0	3,523.0	Sussex			
3,922.4	3,831.0	Sussex Marker			
4,188.5	4,092.0	Shannon			
6,100.3	5,999.0	Teepee Buttes (*if present)			
6,965.1	6,813.0	Sharon Springs			
7,075.7	6,887.0	Niobrara			
7,426.3	7,026.0	B Chalk			

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1E-6H-A368	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,700.0	1,682.9	-174.6	87.4	EOB; Inc=15°
3,670.0	3,585.8	-630.5	315.7	Start Drop -1.00
5,170.0	5,068.7	-805.0	403.1	EOD; Inc=0°
6,421.1	6,319.8	-805.0	403.1	Start Build 8.00
7,546.1	7,036.0	-805.0	-313.1	LP @ 7036' TVD; 90°
11,500.4	7,036.0	-804.7	-4,267.4	TD at 11500.4

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S6-T3N-R68W (Zisch/Drieth 1)

Drieth 1E-6H-A368

Hz

Plan #1

Anticollision Report

15 April, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	4/15/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	11,500.4	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						
S6-T3N-R68W (Zisch/Drieth 1)						
Drieth 1A-6H-A368 - Hz - Plan #1	166.3	167.3	40.1	39.5	74.626	CC
Drieth 1A-6H-A368 - Hz - Plan #1	200.0	201.0	40.1	39.4	61.226	ES
Drieth 1A-6H-A368 - Hz - Plan #1	600.0	597.3	63.9	61.8	30.925	SF
Drieth 1B-6H-A368 - Hz - Plan #1	200.0	201.0	32.8	32.1	50.093	CC, ES
Drieth 1B-6H-A368 - Hz - Plan #1	600.0	599.6	49.0	46.9	23.674	SF
Drieth 1C-6H-A368 - Hz - Plan #1	200.0	200.0	21.9	21.2	33.485	CC, ES
Drieth 1C-6H-A368 - Hz - Plan #1	700.0	700.2	39.1	36.6	16.135	SF
Drieth 1D-6H-A368 - Hz - Plan #1	200.0	200.0	10.9	10.3	16.742	CC, ES
Drieth 1D-6H-A368 - Hz - Plan #1	11,500.4	11,677.1	413.2	225.2	2.198	SF
SUMMER 6-1 (EXISTING) - EXISTING - NO SURVEYS						Out of range

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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 S6-T3N-R68W (Zisch/Drieth 1) - Drieth 1A-6H-A368 - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	0.00	40.1	0.0	40.1					
100.0	100.0	101.0	101.0	0.2	0.2	0.00	40.1	0.0	40.1	39.8	0.31	131.196		
166.3	166.3	167.3	167.3	0.3	0.3	0.00	40.1	0.0	40.1	39.5	0.54	74.626 CC		
200.0	200.0	201.0	201.0	0.3	0.3	0.00	40.1	0.0	40.1	39.4	0.65	61.226 ES		
300.0	300.0	300.4	300.4	0.5	0.5	-153.22	40.8	0.5	41.6	40.6	1.00	41.449		
400.0	400.0	400.0	400.0	0.7	0.7	-152.78	42.9	2.0	46.0	44.7	1.35	34.011		
500.0	499.9	498.7	498.6	0.9	0.9	-152.22	46.4	4.5	53.5	51.8	1.71	31.332		
600.0	599.7	597.3	597.0	1.1	1.1	-151.64	51.3	8.0	63.9	61.8	2.07	30.925 SF		
700.0	699.4	695.4	694.8	1.3	1.3	-151.13	57.5	12.5	77.2	74.8	2.43	31.768		
800.0	798.9	792.9	791.8	1.5	1.5	-150.68	65.0	17.8	93.5	90.7	2.80	33.343		
900.0	898.3	889.6	887.9	1.8	1.7	-150.31	73.8	24.1	112.6	109.5	3.19	35.360		
1,000.0	997.4	985.4	982.9	2.0	2.0	-149.99	83.8	31.3	134.7	131.1	3.58	37.642		
1,100.0	1,096.3	1,080.2	1,076.7	2.3	2.3	-149.71	94.9	39.3	159.5	155.5	3.98	40.077		
1,200.0	1,194.9	1,173.9	1,169.2	2.7	2.6	-149.47	107.2	48.1	187.2	182.8	4.40	42.589		
1,300.0	1,293.3	1,266.4	1,260.2	3.0	2.9	-149.25	120.5	57.6	217.6	212.8	4.82	45.126		
1,400.0	1,391.2	1,357.6	1,349.7	3.4	3.2	-149.05	134.8	67.8	250.7	245.4	5.26	47.653		
1,500.0	1,488.9	1,447.4	1,437.6	3.8	3.6	-148.86	150.0	78.7	286.5	280.8	5.71	50.147		
1,600.0	1,586.1	1,535.8	1,523.7	4.2	4.0	-148.67	166.1	90.2	324.8	318.7	6.18	52.589		
1,700.0	1,682.9	1,622.6	1,608.0	4.7	4.3	-148.48	182.9	102.3	365.8	359.1	6.65	54.970		
1,800.0	1,779.5	1,708.6	1,691.2	5.2	4.7	-148.48	200.6	114.9	408.5	401.4	7.15	57.117		
1,900.0	1,876.1	1,798.8	1,778.3	5.6	5.2	-148.43	219.6	128.5	451.7	444.1	7.67	58.924		
2,000.0	1,972.7	1,889.0	1,865.5	6.1	5.6	-148.40	238.6	142.1	495.0	486.8	8.18	60.474		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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 S6-T3N-R68W (Zisch/Drieth 1) - Drieth 1B-6H-A368 - 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	1.0	1.0	0.0	0.0	0.00	32.8	0.0	32.8					
100.0	100.0	101.0	101.0	0.2	0.2	0.00	32.8	0.0	32.8	32.5	0.31	107.342		
200.0	200.0	201.0	201.0	0.3	0.3	0.00	32.8	0.0	32.8	32.1	0.65	50.093 CC, ES		
300.0	300.0	301.0	301.0	0.5	0.5	-154.06	32.8	0.0	33.6	32.6	1.00	33.446		
400.0	400.0	400.7	400.7	0.7	0.7	-154.61	33.2	0.8	36.3	35.0	1.35	26.844		
500.0	499.9	500.2	500.2	0.9	0.9	-153.94	34.4	3.1	41.5	39.7	1.71	24.286		
600.0	599.7	599.6	599.4	1.1	1.0	-152.52	36.5	6.9	49.0	46.9	2.07	23.674 SF		
700.0	699.4	698.6	698.3	1.3	1.2	-150.81	39.3	12.2	58.9	56.4	2.44	24.126		
800.0	798.9	797.2	796.6	1.5	1.4	-149.10	42.9	19.0	71.2	68.4	2.83	25.193		
900.0	898.3	895.4	894.3	1.8	1.7	-147.53	47.3	27.3	86.0	82.8	3.23	26.618		
1,000.0	997.4	993.0	991.3	2.0	1.9	-146.15	52.4	37.0	103.2	99.6	3.66	28.242		
1,100.0	1,096.3	1,089.9	1,087.4	2.3	2.2	-144.95	58.3	48.0	122.9	118.8	4.10	29.961		
1,200.0	1,194.9	1,186.1	1,182.5	2.7	2.4	-143.91	64.9	60.4	144.9	140.4	4.57	31.708		
1,300.0	1,293.3	1,281.4	1,276.6	3.0	2.7	-143.01	72.2	74.0	169.4	164.3	5.07	33.436		
1,400.0	1,391.2	1,375.9	1,369.6	3.4	3.1	-142.22	80.1	88.9	196.1	190.5	5.59	35.117		
1,500.0	1,488.9	1,469.4	1,461.3	3.8	3.4	-141.52	88.6	105.0	225.2	219.1	6.13	36.734		
1,600.0	1,586.1	1,563.7	1,553.5	4.2	3.8	-140.96	97.8	122.2	256.4	249.7	6.70	38.266		
1,700.0	1,682.9	1,658.2	1,646.0	4.7	4.1	-140.67	107.0	139.6	288.9	281.6	7.28	39.655		
1,800.0	1,779.5	1,752.6	1,738.3	5.2	4.5	-140.72	116.2	156.9	322.0	314.1	7.88	40.839		
1,900.0	1,876.1	1,846.9	1,830.6	5.6	4.9	-140.76	125.4	174.2	355.1	346.6	8.49	41.829		
2,000.0	1,972.7	1,941.3	1,922.9	6.1	5.2	-140.79	134.6	191.6	388.3	379.2	9.10	42.668		
2,100.0	2,069.3	2,035.6	2,015.2	6.6	5.6	-140.82	143.8	208.9	421.4	411.7	9.71	43.386		
2,200.0	2,165.9	2,130.0	2,107.5	7.0	6.0	-140.85	153.1	226.2	454.5	444.2	10.33	44.007		
2,300.0	2,262.5	2,224.3	2,199.8	7.5	6.4	-140.87	162.3	243.5	487.7	476.7	10.95	44.548		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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 S6-T3N-R68W (Zisch/Drieth 1) - Drieth 1C-6H-A368 - 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	0.00	21.9	0.0	21.9					
100.0	100.0	100.0	100.0	0.2	0.2	0.00	21.9	0.0	21.9	21.6	0.30	71.973		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	21.9	0.0	21.9	21.2	0.65	33.485 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-154.39	21.9	0.0	22.6	21.6	1.00	22.598		
400.0	400.0	400.0	400.0	0.7	0.7	-156.97	21.9	0.0	25.0	23.7	1.35	18.519		
500.0	499.9	500.1	500.1	0.9	0.9	-158.74	21.6	0.8	28.7	27.0	1.70	16.886		
600.0	599.7	600.2	600.1	1.1	1.0	-158.38	20.8	3.3	33.4	31.4	2.06	16.246		
700.0	699.4	700.2	700.1	1.3	1.2	-156.68	19.5	7.5	39.1	36.6	2.42	16.135 SF		
800.0	798.9	800.2	799.9	1.5	1.4	-154.25	17.7	13.3	45.7	42.9	2.80	16.332		
900.0	898.3	900.2	899.5	1.8	1.6	-151.50	15.3	20.8	53.5	50.3	3.20	16.711		
1,000.0	997.4	1,000.0	998.9	2.0	1.8	-148.69	12.4	29.9	62.5	58.9	3.64	17.187		
1,100.0	1,096.3	1,099.6	1,097.9	2.3	2.1	-145.99	9.0	40.7	72.7	68.6	4.11	17.703		
1,200.0	1,194.9	1,199.1	1,196.5	2.7	2.3	-143.46	5.1	53.1	84.2	79.5	4.62	18.223		
1,300.0	1,293.3	1,298.4	1,294.8	3.0	2.6	-141.13	0.7	67.0	96.9	91.7	5.18	18.722		
1,400.0	1,391.2	1,397.5	1,392.5	3.4	2.9	-139.02	-4.2	82.6	111.0	105.2	5.78	19.189		
1,500.0	1,488.9	1,496.3	1,489.8	3.8	3.3	-137.49	-9.3	99.0	126.4	120.0	6.42	19.702		
1,600.0	1,586.1	1,594.9	1,586.8	4.2	3.6	-136.74	-14.5	115.3	143.1	136.1	7.06	20.276		
1,700.0	1,682.9	1,693.2	1,683.7	4.7	3.9	-136.55	-19.6	131.6	161.1	153.4	7.71	20.893		
1,800.0	1,779.5	1,791.5	1,780.5	5.2	4.2	-136.69	-24.8	147.9	179.7	171.3	8.37	21.475		
1,900.0	1,876.1	1,889.7	1,877.2	5.6	4.6	-136.81	-29.9	164.1	198.3	189.3	9.03	21.960		
2,000.0	1,972.7	1,988.0	1,974.0	6.1	4.9	-136.91	-35.0	180.4	216.9	207.2	9.70	22.368		
2,100.0	2,069.3	2,086.2	2,070.8	6.6	5.2	-136.99	-40.2	196.7	235.5	225.2	10.37	22.717		
2,200.0	2,165.9	2,184.5	2,167.5	7.0	5.6	-137.06	-45.3	212.9	254.2	243.1	11.04	23.018		
2,300.0	2,262.5	2,282.8	2,264.3	7.5	5.9	-137.12	-50.4	229.2	272.8	261.0	11.72	23.279		
2,400.0	2,359.1	2,381.0	2,361.0	8.0	6.3	-137.17	-55.5	245.5	291.4	279.0	12.39	23.509		
2,500.0	2,455.7	2,479.3	2,457.8	8.5	6.6	-137.21	-60.7	261.8	310.0	296.9	13.07	23.711		
2,600.0	2,552.3	2,577.5	2,554.6	9.0	6.9	-137.25	-65.8	278.0	328.6	314.8	13.75	23.891		
2,700.0	2,648.8	2,675.8	2,651.3	9.4	7.3	-137.29	-70.9	294.3	347.2	332.8	14.43	24.053		
2,800.0	2,745.4	2,774.0	2,748.1	9.9	7.6	-137.32	-76.1	310.6	365.8	350.7	15.12	24.198		
2,900.0	2,842.0	2,872.2	2,844.7	10.4	8.0	-137.38	-81.1	326.7	384.4	368.6	15.79	24.344		
3,000.0	2,938.6	2,970.1	2,941.4	10.9	8.3	-137.63	-85.8	341.4	403.1	386.7	16.42	24.552		
3,100.0	3,035.2	3,067.9	3,038.3	11.4	8.5	-138.09	-89.9	354.6	421.9	404.9	17.00	24.818		
3,200.0	3,131.8	3,165.5	3,135.2	11.9	8.8	-138.72	-93.6	366.2	440.8	423.3	17.53	25.144		
3,300.0	3,228.4	3,262.9	3,232.0	12.3	9.0	-139.52	-96.7	376.1	459.9	441.9	18.01	25.530		
3,400.0	3,325.0	3,360.1	3,328.7	12.8	9.3	-140.45	-99.4	384.5	479.2	460.7	18.45	25.978		
3,500.0	3,421.6	3,456.9	3,425.3	13.3	9.5	-141.50	-101.5	391.3	498.8	480.0	18.83	26.491		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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 S6-T3N-R68W (Zisch/Drieth 1) - Drieth 1D-6H-A368 - 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			
0.0	0.0	0.0	0.0	0.0	0.0	0.00	10.9	0.0	10.9					
100.0	100.0	100.0	100.0	0.2	0.2	0.00	10.9	0.0	10.9	10.6	0.30	35.986		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	10.9	0.0	10.9	10.3	0.65	16.742 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	-155.31	10.9	0.0	11.7	10.7	1.00	11.693		
400.0	400.0	400.2	400.1	0.7	0.7	-157.62	10.3	0.6	13.4	12.1	1.35	9.931		
500.0	499.9	500.3	500.3	0.9	0.9	-157.96	8.3	2.3	15.4	13.7	1.70	9.014		
600.0	599.7	600.5	600.4	1.1	1.0	-156.95	5.0	5.2	17.5	15.4	2.06	8.494		
700.0	699.4	700.8	700.4	1.3	1.2	-155.08	0.4	9.2	19.9	17.5	2.43	8.192		
800.0	798.9	801.0	800.4	1.5	1.4	-152.67	-5.6	14.4	22.5	19.7	2.81	8.016		
900.0	898.3	901.3	900.2	1.8	1.7	-149.96	-12.9	20.7	25.4	22.2	3.21	7.915		
1,000.0	997.4	1,001.5	999.8	2.0	1.9	-147.13	-21.4	28.1	28.7	25.0	3.65	7.856		
1,100.0	1,096.3	1,101.8	1,099.2	2.3	2.2	-144.30	-31.3	36.7	32.3	28.1	4.13	7.816		
1,200.0	1,194.9	1,202.1	1,198.4	2.7	2.5	-141.54	-42.6	46.5	36.2	31.6	4.66	7.783		
1,300.0	1,293.3	1,302.4	1,297.3	3.0	2.8	-138.90	-55.1	57.4	40.6	35.3	5.24	7.749		
1,400.0	1,391.2	1,402.7	1,395.9	3.4	3.2	-136.41	-68.9	69.4	45.3	39.4	5.87	7.712		
1,500.0	1,488.9	1,502.9	1,494.1	3.8	3.5	-134.09	-84.0	82.5	50.4	43.9	6.58	7.672		
1,600.0	1,586.1	1,602.7	1,591.7	4.2	3.9	-132.76	-99.7	96.2	56.4	49.2	7.29	7.745		
1,700.0	1,682.9	1,702.5	1,689.3	4.7	4.3	-132.86	-115.3	109.8	63.6	55.7	7.97	7.980		
1,800.0	1,779.5	1,802.2	1,786.8	5.2	4.7	-133.48	-131.0	123.4	71.4	62.8	8.64	8.265		
1,900.0	1,876.1	1,901.9	1,884.3	5.6	5.1	-133.99	-146.6	137.0	79.2	69.9	9.31	8.506		
2,000.0	1,972.7	2,001.6	1,981.9	6.1	5.5	-134.40	-162.3	150.6	87.0	77.0	9.99	8.712		
2,100.0	2,069.3	2,101.3	2,079.4	6.6	5.9	-134.75	-177.9	164.2	94.8	84.1	10.66	8.890		
2,200.0	2,165.9	2,201.0	2,176.9	7.0	6.2	-135.04	-193.6	177.8	102.6	91.3	11.34	9.045		
2,300.0	2,262.5	2,300.7	2,274.4	7.5	6.6	-135.29	-209.2	191.4	110.4	98.4	12.02	9.182		
2,400.0	2,359.1	2,400.3	2,371.9	8.0	7.0	-135.51	-224.8	205.0	118.2	105.5	12.71	9.303		
2,500.0	2,455.7	2,500.0	2,469.4	8.5	7.4	-135.70	-240.5	218.5	126.0	112.6	13.39	9.411		
2,600.0	2,552.3	2,599.7	2,566.9	9.0	7.8	-135.87	-256.1	232.1	133.8	119.7	14.07	9.508		
2,700.0	2,648.8	2,699.4	2,664.5	9.4	8.2	-136.02	-271.8	245.7	141.6	126.9	14.76	9.596		
2,800.0	2,745.4	2,799.1	2,762.0	9.9	8.6	-136.16	-287.4	259.3	149.4	134.0	15.45	9.675		
2,900.0	2,842.0	2,898.8	2,859.5	10.4	9.0	-136.28	-303.1	272.9	157.3	141.1	16.13	9.747		
3,000.0	2,938.6	2,998.5	2,957.0	10.9	9.4	-136.39	-318.7	286.5	165.1	148.2	16.82	9.813		
3,100.0	3,035.2	3,098.2	3,054.5	11.4	9.8	-136.49	-334.3	300.1	172.9	155.4	17.51	9.873		
3,200.0	3,131.8	3,197.9	3,152.0	11.9	10.2	-136.58	-350.0	313.7	180.7	162.5	18.20	9.929		
3,300.0	3,228.4	3,297.0	3,249.0	12.3	10.6	-136.69	-365.5	327.2	188.6	169.7	18.88	9.987		
3,400.0	3,325.0	3,394.9	3,345.0	12.8	11.0	-137.10	-379.8	339.7	197.1	177.7	19.47	10.123		
3,500.0	3,421.6	3,492.5	3,441.1	13.3	11.3	-137.87	-392.9	351.0	206.7	186.7	19.97	10.348		
3,600.0	3,518.2	3,589.8	3,537.1	13.8	11.6	-138.92	-404.7	361.3	217.2	196.8	20.38	10.658		
3,700.0	3,614.8	3,686.8	3,633.1	14.3	11.9	-140.23	-415.2	370.4	228.7	208.0	20.70	11.051		
3,800.0	3,711.7	3,783.6	3,729.1	14.7	12.2	-141.58	-424.5	378.5	240.4	219.4	20.96	11.470		
3,900.0	3,809.1	3,880.2	3,825.2	15.1	12.4	-142.87	-432.5	385.5	251.8	230.6	21.18	11.889		
4,000.0	3,906.8	3,976.7	3,921.2	15.5	12.6	-144.10	-439.3	391.4	263.0	241.6	21.37	12.309		
4,100.0	4,004.9	4,073.0	4,017.3	15.9	12.8	-145.28	-444.9	396.2	274.0	252.4	21.52	12.731		
4,200.0	4,103.3	4,169.2	4,113.2	16.2	13.0	-146.43	-449.2	400.0	284.7	263.1	21.64	13.155		
4,300.0	4,202.1	4,265.2	4,209.1	16.6	13.1	-147.55	-452.4	402.7	295.2	273.5	21.74	13.582		
4,400.0	4,301.0	4,361.0	4,304.9	16.9	13.2	-148.64	-454.3	404.4	305.5	283.7	21.81	14.012		
4,500.0	4,400.2	4,456.7	4,400.6	17.1	13.3	-149.71	-455.0	405.0	315.6	293.8	21.86	14.442		
4,600.0	4,499.7	4,555.7	4,499.7	17.3	13.4	-150.71	-455.0	405.0	325.0	303.1	21.91	14.835		
4,700.0	4,599.2	4,655.3	4,599.2	17.6	13.5	-151.51	-455.0	405.0	333.0	311.0	22.01	15.131		
4,800.0	4,699.0	4,755.1	4,699.0	17.7	13.7	-152.13	-455.0	405.0	339.4	317.3	22.14	15.332		
4,900.0	4,798.8	4,854.9	4,798.8	17.9	13.8	-152.58	-455.0	405.0	344.4	322.1	22.30	15.440		
5,000.0	4,898.7	4,954.8	4,898.7	18.0	13.9	-152.89	-455.0	405.0	347.8	325.3	22.50	15.459		
5,100.0	4,998.7	5,054.8	4,998.7	18.1	14.0	-153.06	-455.0	405.0	349.7	326.9	22.72	15.390		

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 Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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 S6-T3N-R68W (Zisch/Drieth 1) - Drieth 1D-6H-A368 - 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	5,098.7	5,154.8	5,098.7	18.2	14.1	0.31	-455.0	405.0	350.0	321.2	28.86	12.130		
5,300.0	5,198.7	5,254.8	5,198.7	18.3	14.2	0.31	-455.0	405.0	350.0	321.0	29.08	12.036		
5,400.0	5,298.7	5,354.8	5,298.7	18.4	14.3	0.31	-455.0	405.0	350.0	320.7	29.31	11.943		
5,500.0	5,398.7	5,454.8	5,398.7	18.5	14.4	0.31	-455.0	405.0	350.0	320.5	29.54	11.850		
5,600.0	5,498.7	5,554.8	5,498.7	18.6	14.5	0.31	-455.0	405.0	350.0	320.3	29.77	11.758		
5,700.0	5,598.7	5,654.8	5,598.7	18.7	14.7	0.31	-455.0	405.0	350.0	320.0	30.00	11.666		
5,800.0	5,698.7	5,754.8	5,698.7	18.8	14.8	0.31	-455.0	405.0	350.0	319.8	30.24	11.575		
5,900.0	5,798.7	5,854.8	5,798.7	18.8	14.9	0.31	-455.0	405.0	350.0	319.6	30.48	11.485		
6,000.0	5,898.7	5,954.8	5,898.7	18.9	15.0	0.31	-455.0	405.0	350.0	319.3	30.72	11.395		
6,100.0	5,998.7	6,054.8	5,998.7	19.0	15.1	0.31	-455.0	405.0	350.0	319.1	30.96	11.306		
6,200.0	6,098.7	6,154.8	6,098.7	19.1	15.3	0.31	-455.0	405.0	350.0	318.8	31.20	11.217		
6,300.0	6,198.7	6,254.8	6,198.7	19.2	15.4	0.31	-455.0	405.0	350.0	318.6	31.45	11.130		
6,400.0	6,298.7	6,354.8	6,298.7	19.3	15.5	0.31	-455.0	405.0	350.0	318.3	31.70	11.042		
6,425.8	6,324.6	6,380.6	6,324.6	19.3	15.5	90.37	-455.0	405.0	350.0	323.6	26.46	13.229		
6,500.0	6,398.6	6,454.6	6,398.6	19.4	15.6	91.01	-455.0	405.0	350.1	323.3	26.77	13.079		
6,600.0	6,496.9	6,552.9	6,496.9	19.4	15.8	93.82	-455.0	405.0	350.9	323.4	27.43	12.793		
6,700.0	6,591.7	6,652.0	6,595.9	19.3	15.8	98.27	-455.0	402.8	354.1	325.9	28.15	12.577		
6,800.0	6,681.3	6,757.5	6,700.0	19.1	15.8	102.86	-455.0	386.9	359.9	331.5	28.43	12.660		
6,900.0	6,763.8	6,868.4	6,805.8	19.0	15.7	107.20	-455.0	353.8	367.8	339.7	28.15	13.066		
7,000.0	6,837.7	6,985.3	6,910.3	18.9	15.5	111.16	-455.0	301.7	377.1	349.7	27.40	13.763		
7,100.0	6,901.5	7,108.6	7,009.8	18.8	15.3	114.64	-455.0	229.2	387.0	360.5	26.42	14.647		
7,200.0	6,954.0	7,238.1	7,099.4	18.9	15.2	117.56	-455.0	135.8	396.4	370.8	25.64	15.462		
7,300.0	6,994.1	7,373.6	7,173.4	19.1	15.2	119.82	-455.0	22.7	404.4	378.8	25.64	15.774		
7,400.0	7,021.2	7,513.8	7,226.3	19.6	15.9	121.35	-455.0	-107.0	410.2	383.3	26.89	15.258		
7,500.0	7,034.5	7,657.1	7,253.2	20.5	17.5	122.09	-455.0	-247.5	413.1	383.5	29.63	13.945		
7,600.0	7,036.0	7,776.7	7,256.0	21.6	19.3	122.15	-455.0	-367.0	413.4	380.5	32.86	12.578		
7,700.0	7,036.0	7,876.7	7,256.0	23.0	21.1	122.15	-455.0	-467.0	413.4	377.5	35.91	11.511		
7,800.0	7,036.0	7,976.7	7,256.0	24.7	23.0	122.15	-455.0	-567.0	413.4	374.2	39.17	10.554		
7,900.0	7,036.0	8,076.7	7,256.0	26.5	25.0	122.16	-455.0	-667.0	413.4	370.8	42.59	9.706		
8,000.0	7,036.0	8,176.7	7,256.0	28.4	27.1	122.16	-455.0	-767.0	413.4	367.2	46.14	8.959		
8,100.0	7,036.0	8,276.7	7,256.0	30.4	29.2	122.16	-455.0	-867.0	413.4	363.6	49.79	8.302		
8,200.0	7,036.0	8,376.7	7,256.0	32.5	31.4	122.16	-455.0	-967.0	413.3	359.8	53.52	7.723		
8,300.0	7,036.0	8,476.7	7,256.0	34.7	33.6	122.16	-455.0	-1,067.0	413.3	356.0	57.31	7.212		
8,400.0	7,036.0	8,576.7	7,256.0	36.8	35.9	122.16	-455.0	-1,167.0	413.3	352.2	61.16	6.758		
8,500.0	7,036.0	8,676.7	7,256.0	39.1	38.2	122.16	-455.0	-1,267.0	413.3	348.3	65.05	6.354		
8,600.0	7,036.0	8,776.7	7,256.0	41.3	40.5	122.16	-455.0	-1,367.0	413.3	344.3	68.97	5.992		
8,700.0	7,036.0	8,876.7	7,256.0	43.6	42.8	122.16	-455.0	-1,467.0	413.3	340.4	72.93	5.667		
8,800.0	7,036.0	8,976.7	7,256.0	45.9	45.1	122.16	-455.0	-1,567.0	413.3	336.4	76.91	5.374		
8,900.0	7,036.0	9,076.7	7,256.0	48.2	47.5	122.16	-455.0	-1,667.0	413.3	332.4	80.91	5.108		
9,000.0	7,036.0	9,176.7	7,256.0	50.6	49.8	122.16	-455.0	-1,767.0	413.3	328.4	84.93	4.866		
9,100.0	7,036.0	9,276.7	7,256.0	52.9	52.2	122.16	-455.0	-1,867.0	413.3	324.3	88.97	4.645		
9,200.0	7,036.0	9,376.7	7,256.0	55.3	54.6	122.16	-455.0	-1,967.0	413.3	320.3	93.02	4.443		
9,300.0	7,036.0	9,476.7	7,256.0	57.6	57.0	122.16	-455.0	-2,067.0	413.3	316.2	97.08	4.257		
9,400.0	7,036.0	9,576.7	7,256.0	60.0	59.4	122.16	-455.0	-2,167.0	413.3	312.1	101.16	4.086		
9,500.0	7,036.0	9,676.7	7,256.0	62.4	61.8	122.16	-455.0	-2,267.0	413.3	308.0	105.24	3.927		
9,600.0	7,036.0	9,776.7	7,256.0	64.8	64.2	122.16	-455.0	-2,367.0	413.3	303.9	109.33	3.780		
9,700.0	7,036.0	9,876.7	7,256.0	67.2	66.6	122.16	-455.0	-2,467.0	413.3	299.8	113.43	3.643		
9,800.0	7,036.0	9,976.7	7,256.0	69.6	69.0	122.16	-455.0	-2,567.0	413.3	295.7	117.54	3.516		
9,900.0	7,036.0	10,076.7	7,256.0	72.0	71.5	122.17	-455.0	-2,667.0	413.3	291.6	121.65	3.397		
10,000.0	7,036.0	10,176.7	7,256.0	74.4	73.9	122.17	-455.0	-2,767.0	413.2	287.5	125.76	3.286		
10,100.0	7,036.0	10,276.7	7,256.0	76.8	76.3	122.17	-455.0	-2,867.0	413.2	283.4	129.89	3.182		
10,200.0	7,036.0	10,376.7	7,256.0	79.2	78.8	122.17	-455.0	-2,967.0	413.2	279.2	134.01	3.084		

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 Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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												S6-T3N-R68W (Zisch/Drieth 1) - Drieth 1D-6H-A368 - 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						
10,300.0	7,036.0	10,476.7	7,256.0	81.7	81.2	122.17	-455.0	-3,067.0	413.2	275.1	138.14	2.991							
10,400.0	7,036.0	10,576.7	7,256.0	84.1	83.6	122.17	-455.0	-3,167.0	413.2	270.9	142.28	2.904							
10,500.0	7,036.0	10,676.7	7,256.0	86.5	86.1	122.17	-455.0	-3,267.0	413.2	266.8	146.41	2.822							
10,600.0	7,036.0	10,776.7	7,256.0	88.9	88.5	122.17	-455.0	-3,367.0	413.2	262.7	150.55	2.745							
10,700.0	7,036.0	10,876.7	7,256.0	91.4	91.0	122.17	-455.0	-3,467.0	413.2	258.5	154.70	2.671							
10,800.0	7,036.0	10,976.7	7,256.0	93.8	93.4	122.17	-455.0	-3,567.0	413.2	254.4	158.84	2.601							
10,900.0	7,036.0	11,076.7	7,256.0	96.2	95.8	122.17	-455.0	-3,667.0	413.2	250.2	162.99	2.535							
11,000.0	7,036.0	11,176.7	7,256.0	98.7	98.3	122.17	-455.0	-3,767.0	413.2	246.0	167.14	2.472							
11,100.0	7,036.0	11,276.7	7,256.0	101.1	100.7	122.17	-455.0	-3,867.0	413.2	241.9	171.29	2.412							
11,200.0	7,036.0	11,376.7	7,256.0	103.6	103.2	122.17	-455.0	-3,967.0	413.2	237.7	175.45	2.355							
11,300.0	7,036.0	11,476.7	7,256.0	106.0	105.6	122.17	-455.0	-4,067.0	413.2	233.6	179.60	2.300							
11,400.0	7,036.0	11,576.7	7,256.0	108.5	108.1	122.17	-455.0	-4,167.0	413.2	229.4	183.76	2.248							
11,500.0	7,036.0	11,676.7	7,256.0	110.9	110.5	122.17	-455.0	-4,267.0	413.2	225.2	187.92	2.199							
11,500.4	7,036.0	11,677.1	7,256.0	110.9	110.6	122.17	-455.0	-4,267.4	413.2	225.2	187.93	2.198 SF							

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1E-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5099.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5099.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1E-6H-A368	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 @ 5099.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Drieth 1E-6H-A368
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.30°

