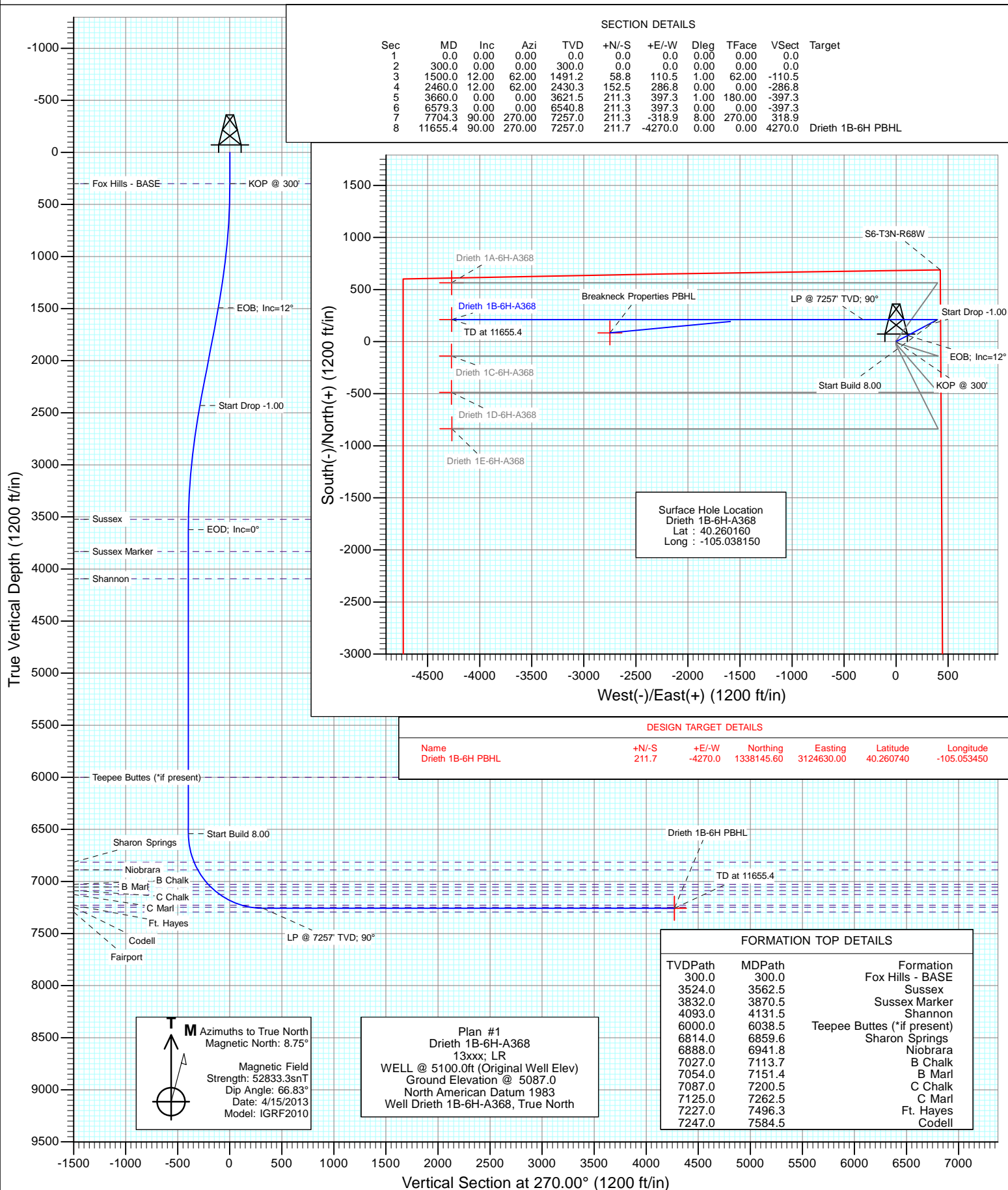




Project: DJ Wattenberg
Site: S6-T3N-R68W (Zisch/Drieth 1)
Well: Drieth 1B-6H-A368
Wellbore: Hz
Design: Plan #1



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1B-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 1B-6H-A368					
Well Position	+N/-S	0.0 ft	Northing:	1,337,956.18 ft	Latitude:	40.260160
	+E/-W	0.0 ft	Easting:	3,128,901.01 ft	Longitude:	-105.038150
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,087.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/15/2013	8.75	66.83	52,833

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	12.00	62.00	1,491.2	58.8	110.5	1.00	1.00	0.00	62.00	
2,460.0	12.00	62.00	2,430.3	152.5	286.8	0.00	0.00	0.00	0.00	
3,660.0	0.00	0.00	3,621.5	211.3	397.3	1.00	-1.00	0.00	180.00	
6,579.3	0.00	0.00	6,540.8	211.3	397.3	0.00	0.00	0.00	0.00	
7,704.3	90.00	270.00	7,257.0	211.3	-318.9	8.00	8.00	0.00	270.00	
11,655.4	90.00	270.00	7,257.0	211.7	-4,270.0	0.00	0.00	0.00	0.00	Drieth 1B-6H PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1B-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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	KOP @ 300' - Fox Hills - BASE
400.0	1.00	62.00	400.0	0.4	0.8	-0.8	1.00	1.00	
500.0	2.00	62.00	500.0	1.6	3.1	-3.1	1.00	1.00	
600.0	3.00	62.00	599.9	3.7	6.9	-6.9	1.00	1.00	
700.0	4.00	62.00	699.7	6.6	12.3	-12.3	1.00	1.00	
800.0	5.00	62.00	799.4	10.2	19.3	-19.3	1.00	1.00	
900.0	6.00	62.00	898.9	14.7	27.7	-27.7	1.00	1.00	
1,000.0	7.00	62.00	998.3	20.0	37.7	-37.7	1.00	1.00	
1,100.0	8.00	62.00	1,097.4	26.2	49.2	-49.2	1.00	1.00	
1,200.0	9.00	62.00	1,196.3	33.1	62.3	-62.3	1.00	1.00	
1,300.0	10.00	62.00	1,294.9	40.9	76.9	-76.9	1.00	1.00	
1,400.0	11.00	62.00	1,393.3	49.4	92.9	-92.9	1.00	1.00	
1,500.0	12.00	62.00	1,491.2	58.8	110.5	-110.5	1.00	1.00	EOB; Inc=12°
1,600.0	12.00	62.00	1,589.1	68.5	128.9	-128.9	0.00	0.00	
1,700.0	12.00	62.00	1,686.9	78.3	147.3	-147.3	0.00	0.00	
1,800.0	12.00	62.00	1,784.7	88.1	165.6	-165.6	0.00	0.00	
1,900.0	12.00	62.00	1,882.5	97.8	184.0	-184.0	0.00	0.00	
2,000.0	12.00	62.00	1,980.3	107.6	202.3	-202.3	0.00	0.00	
2,100.0	12.00	62.00	2,078.1	117.3	220.7	-220.7	0.00	0.00	
2,200.0	12.00	62.00	2,175.9	127.1	239.1	-239.1	0.00	0.00	
2,300.0	12.00	62.00	2,273.8	136.9	257.4	-257.4	0.00	0.00	
2,400.0	12.00	62.00	2,371.6	146.6	275.8	-275.8	0.00	0.00	
2,460.0	12.00	62.00	2,430.3	152.5	286.8	-286.8	0.00	0.00	Start Drop -1.00
2,500.0	11.60	62.00	2,469.4	156.3	294.0	-294.0	1.00	-1.00	
2,600.0	10.60	62.00	2,567.6	165.4	311.0	-311.0	1.00	-1.00	
2,700.0	9.60	62.00	2,666.0	173.6	326.5	-326.5	1.00	-1.00	
2,800.0	8.60	62.00	2,764.7	181.0	340.5	-340.5	1.00	-1.00	
2,900.0	7.60	62.00	2,863.7	187.6	352.9	-352.9	1.00	-1.00	
3,000.0	6.60	62.00	2,963.0	193.4	363.8	-363.8	1.00	-1.00	
3,100.0	5.60	62.00	3,062.4	198.4	373.2	-373.2	1.00	-1.00	
3,200.0	4.60	62.00	3,162.0	202.6	381.0	-381.0	1.00	-1.00	
3,300.0	3.60	62.00	3,261.8	206.0	387.3	-387.3	1.00	-1.00	
3,400.0	2.60	62.00	3,361.6	208.5	392.1	-392.1	1.00	-1.00	
3,500.0	1.60	62.00	3,461.5	210.2	395.4	-395.4	1.00	-1.00	
3,562.5	0.98	62.00	3,524.0	210.9	396.6	-396.6	1.00	-1.00	Sussex
3,600.0	0.60	62.00	3,561.5	211.1	397.1	-397.1	1.00	-1.00	
3,660.0	0.00	0.00	3,621.5	211.3	397.3	-397.3	1.00	-1.00	EOD; Inc=0°
3,700.0	0.00	0.00	3,661.5	211.3	397.3	-397.3	0.00	0.00	
3,800.0	0.00	0.00	3,761.5	211.3	397.3	-397.3	0.00	0.00	
3,870.5	0.00	0.00	3,832.0	211.3	397.3	-397.3	0.00	0.00	Sussex Marker
3,900.0	0.00	0.00	3,861.5	211.3	397.3	-397.3	0.00	0.00	
4,000.0	0.00	0.00	3,961.5	211.3	397.3	-397.3	0.00	0.00	
4,100.0	0.00	0.00	4,061.5	211.3	397.3	-397.3	0.00	0.00	
4,131.5	0.00	0.00	4,093.0	211.3	397.3	-397.3	0.00	0.00	Shannon
4,200.0	0.00	0.00	4,161.5	211.3	397.3	-397.3	0.00	0.00	
4,300.0	0.00	0.00	4,261.5	211.3	397.3	-397.3	0.00	0.00	
4,400.0	0.00	0.00	4,361.5	211.3	397.3	-397.3	0.00	0.00	
4,500.0	0.00	0.00	4,461.5	211.3	397.3	-397.3	0.00	0.00	
4,600.0	0.00	0.00	4,561.5	211.3	397.3	-397.3	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1B-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	0.00	0.00	4,661.5	211.3	397.3	-397.3	0.00	0.00	
4,800.0	0.00	0.00	4,761.5	211.3	397.3	-397.3	0.00	0.00	
4,900.0	0.00	0.00	4,861.5	211.3	397.3	-397.3	0.00	0.00	
5,000.0	0.00	0.00	4,961.5	211.3	397.3	-397.3	0.00	0.00	
5,100.0	0.00	0.00	5,061.5	211.3	397.3	-397.3	0.00	0.00	
5,200.0	0.00	0.00	5,161.5	211.3	397.3	-397.3	0.00	0.00	
5,300.0	0.00	0.00	5,261.5	211.3	397.3	-397.3	0.00	0.00	
5,400.0	0.00	0.00	5,361.5	211.3	397.3	-397.3	0.00	0.00	
5,500.0	0.00	0.00	5,461.5	211.3	397.3	-397.3	0.00	0.00	
5,600.0	0.00	0.00	5,561.5	211.3	397.3	-397.3	0.00	0.00	
5,700.0	0.00	0.00	5,661.5	211.3	397.3	-397.3	0.00	0.00	
5,800.0	0.00	0.00	5,761.5	211.3	397.3	-397.3	0.00	0.00	
5,900.0	0.00	0.00	5,861.5	211.3	397.3	-397.3	0.00	0.00	
6,000.0	0.00	0.00	5,961.5	211.3	397.3	-397.3	0.00	0.00	
6,038.5	0.00	0.00	6,000.0	211.3	397.3	-397.3	0.00	0.00	Teepee Buttes (*if present)
6,100.0	0.00	0.00	6,061.5	211.3	397.3	-397.3	0.00	0.00	
6,200.0	0.00	0.00	6,161.5	211.3	397.3	-397.3	0.00	0.00	
6,300.0	0.00	0.00	6,261.5	211.3	397.3	-397.3	0.00	0.00	
6,400.0	0.00	0.00	6,361.5	211.3	397.3	-397.3	0.00	0.00	
6,500.0	0.00	0.00	6,461.5	211.3	397.3	-397.3	0.00	0.00	
6,579.3	0.00	0.00	6,540.8	211.3	397.3	-397.3	0.00	0.00	Start Build 8.00
6,600.0	1.66	270.00	6,561.5	211.3	397.0	-397.0	8.00	8.00	
6,700.0	9.66	270.00	6,660.9	211.3	387.2	-387.2	8.00	8.00	
6,800.0	17.66	270.00	6,758.0	211.3	363.6	-363.6	8.00	8.00	
6,859.6	22.42	270.00	6,814.0	211.3	343.2	-343.2	8.00	8.00	Sharon Springs
6,900.0	25.66	270.00	6,850.9	211.3	326.7	-326.7	8.00	8.00	
6,941.8	29.00	270.00	6,888.0	211.3	307.5	-307.5	8.00	8.00	Niobrara
7,000.0	33.66	270.00	6,937.7	211.3	277.3	-277.3	8.00	8.00	
7,100.0	41.66	270.00	7,016.8	211.3	216.2	-216.2	8.00	8.00	
7,113.7	42.75	270.00	7,027.0	211.3	207.0	-207.0	8.00	8.00	B Chalk
7,151.4	45.77	270.00	7,054.0	211.3	180.7	-180.7	8.00	8.00	B Marl
7,200.0	49.66	270.00	7,086.7	211.3	144.8	-144.8	8.00	8.00	
7,200.5	49.70	270.00	7,087.0	211.3	144.4	-144.4	8.00	8.00	C Chalk
7,262.5	54.66	270.00	7,125.0	211.3	95.4	-95.4	8.00	8.00	C Marl
7,300.0	57.66	270.00	7,145.9	211.3	64.3	-64.3	8.00	8.00	
7,400.0	65.66	270.00	7,193.3	211.3	-23.6	23.6	8.00	8.00	
7,496.3	73.36	270.00	7,227.0	211.3	-113.8	113.8	8.00	8.00	Ft. Hayes
7,500.0	73.66	270.00	7,228.1	211.3	-117.3	117.3	8.00	8.00	
7,584.5	80.41	270.00	7,247.0	211.3	-199.6	199.6	8.00	8.00	Codell
7,600.0	81.66	270.00	7,249.4	211.3	-214.9	214.9	8.00	8.00	
7,700.0	89.66	270.00	7,257.0	211.3	-314.6	314.6	8.00	8.00	
7,704.3	90.00	270.00	7,257.0	211.3	-318.9	318.9	8.00	8.00	LP @ 7257' TVD; 90°
7,800.0	90.00	270.00	7,257.0	211.3	-414.6	414.6	0.00	0.00	
7,900.0	90.00	270.00	7,257.0	211.3	-514.6	514.6	0.00	0.00	
8,000.0	90.00	270.00	7,257.0	211.4	-614.6	614.6	0.00	0.00	
8,100.0	90.00	270.00	7,257.0	211.4	-714.6	714.6	0.00	0.00	
8,200.0	90.00	270.00	7,257.0	211.4	-814.6	814.6	0.00	0.00	
8,300.0	90.00	270.00	7,257.0	211.4	-914.6	914.6	0.00	0.00	
8,400.0	90.00	270.00	7,257.0	211.4	-1,014.6	1,014.6	0.00	0.00	
8,500.0	90.00	270.00	7,257.0	211.4	-1,114.6	1,114.6	0.00	0.00	
8,600.0	90.00	270.00	7,257.0	211.4	-1,214.6	1,214.6	0.00	0.00	
8,700.0	90.00	270.00	7,257.0	211.4	-1,314.6	1,314.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1B-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
8,800.0	90.00	270.00	7,257.0	211.4	-1,414.6	1,414.6	0.00	0.00	
8,900.0	90.00	270.00	7,257.0	211.4	-1,514.6	1,514.6	0.00	0.00	
9,000.0	90.00	270.00	7,257.0	211.4	-1,614.6	1,614.6	0.00	0.00	
9,100.0	90.00	270.00	7,257.0	211.4	-1,714.6	1,714.6	0.00	0.00	
9,200.0	90.00	270.00	7,257.0	211.5	-1,814.6	1,814.6	0.00	0.00	
9,300.0	90.00	270.00	7,257.0	211.5	-1,914.6	1,914.6	0.00	0.00	
9,400.0	90.00	270.00	7,257.0	211.5	-2,014.6	2,014.6	0.00	0.00	
9,500.0	90.00	270.00	7,257.0	211.5	-2,114.6	2,114.6	0.00	0.00	
9,600.0	90.00	270.00	7,257.0	211.5	-2,214.6	2,214.6	0.00	0.00	
9,700.0	90.00	270.00	7,257.0	211.5	-2,314.6	2,314.6	0.00	0.00	
9,800.0	90.00	270.00	7,257.0	211.5	-2,414.6	2,414.6	0.00	0.00	
9,900.0	90.00	270.00	7,257.0	211.5	-2,514.6	2,514.6	0.00	0.00	
10,000.0	90.00	270.00	7,257.0	211.5	-2,614.6	2,614.6	0.00	0.00	
10,100.0	90.00	270.00	7,257.0	211.5	-2,714.6	2,714.6	0.00	0.00	
10,200.0	90.00	270.00	7,257.0	211.5	-2,814.6	2,814.6	0.00	0.00	
10,300.0	90.00	270.00	7,257.0	211.5	-2,914.6	2,914.6	0.00	0.00	
10,400.0	90.00	270.00	7,257.0	211.6	-3,014.6	3,014.6	0.00	0.00	
10,500.0	90.00	270.00	7,257.0	211.6	-3,114.6	3,114.6	0.00	0.00	
10,600.0	90.00	270.00	7,257.0	211.6	-3,214.6	3,214.6	0.00	0.00	
10,700.0	90.00	270.00	7,257.0	211.6	-3,314.6	3,314.6	0.00	0.00	
10,800.0	90.00	270.00	7,257.0	211.6	-3,414.6	3,414.6	0.00	0.00	
10,900.0	90.00	270.00	7,257.0	211.6	-3,514.6	3,514.6	0.00	0.00	
11,000.0	90.00	270.00	7,257.0	211.6	-3,614.6	3,614.6	0.00	0.00	
11,100.0	90.00	270.00	7,257.0	211.6	-3,714.6	3,714.6	0.00	0.00	
11,200.0	90.00	270.00	7,257.0	211.6	-3,814.6	3,814.6	0.00	0.00	
11,300.0	90.00	270.00	7,257.0	211.6	-3,914.6	3,914.6	0.00	0.00	
11,400.0	90.00	270.00	7,257.0	211.6	-4,014.6	4,014.6	0.00	0.00	
11,500.0	90.00	270.00	7,257.0	211.7	-4,114.6	4,114.6	0.00	0.00	
11,600.0	90.00	270.00	7,257.0	211.7	-4,214.6	4,214.6	0.00	0.00	
11,655.4	90.00	270.00	7,257.0	211.7	-4,270.0	4,270.0	0.00	0.00	TD at 11655.4 - Drieth 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									
Drieth 1B-6H PBHL	0.00	0.00	7,257.0	211.7	-4,270.0	1,338,145.60	3,124,630.00	40.260740	-105.053450
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site:	S6-T3N-R68W (Zisch/Drieth 1)	North Reference:	True
Well:	Drieth 1B-6H-A368	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
300.0	300.0	Fox Hills - BASE				
3,562.5	3,524.0	Sussex				
3,870.5	3,832.0	Sussex Marker				
4,131.5	4,093.0	Shannon				
6,038.5	6,000.0	Teepee Buttes (*if present)				
6,859.6	6,814.0	Sharon Springs				
6,941.8	6,888.0	Niobrara				
7,113.7	7,027.0	B Chalk				
7,151.4	7,054.0	B Marl				
7,200.5	7,087.0	C Chalk				
7,262.5	7,125.0	C Marl				
7,496.3	7,227.0	Ft. Hayes				
7,584.5	7,247.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.0	300.0	0.0	0.0	KOP @ 300'	
1,500.0	1,491.2	58.8	110.5	EOB; Inc=12°	
2,460.0	2,430.3	152.5	286.8	Start Drop -1.00	
3,660.0	3,621.5	211.3	397.3	EOD; Inc=0°	
6,579.3	6,540.8	211.3	397.3	Start Build 8.00	
7,704.3	7,257.0	211.3	-318.9	LP @ 7257' TVD; 90°	
11,655.4	7,257.0	211.7	-4,270.0	TD at 11655.4	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S6-T3N-R68W (Zisch/Drieth 1)

Drieth 1B-6H-A368

Hz

Plan #1

Anticollision Report

15 April, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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	11,655.4	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)						
Breakneck Properties 21-6 - DD - Plan #1	10,134.6	7,398.0	127.6	30.2	1.310	Level 3, CC, ES, SF
Drieth 1A-6H-A368 - Hz - Plan #1	200.0	200.0	7.3	6.6	11.162	CC, ES
Drieth 1A-6H-A368 - Hz - Plan #1	11,655.4	11,471.6	416.2	228.1	2.212	SF
Drieth 1C-6H-A368 - Hz - Plan #1	300.0	299.0	10.9	9.9	10.928	CC, ES
Drieth 1C-6H-A368 - Hz - Plan #1	11,655.4	11,433.3	413.2	225.7	2.204	SF
Drieth 1D-6H-A368 - Hz - Plan #1	300.0	299.0	21.9	20.9	21.856	CC, ES
Drieth 1D-6H-A368 - Hz - Plan #1	600.0	597.8	31.5	29.4	15.240	SF
Drieth 1E-6H-A368 - Hz - Plan #1	200.0	199.0	32.8	32.1	50.362	CC, ES
Drieth 1E-6H-A368 - Hz - Plan #1	600.0	596.2	48.8	46.8	23.657	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 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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) - Breakneck Properties 21-6 - DD - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)							
9,700.0	7,257.0	7,398.0	7,256.0	62.5	24.5	-90.00	84.0	-2,749.2	452.9	366.1	86.80	5.218					
9,800.0	7,257.0	7,398.0	7,256.0	64.9	24.5	-90.00	84.0	-2,749.2	358.1	268.9	89.22	4.013					
9,900.0	7,257.0	7,398.0	7,256.0	67.3	24.5	-90.00	84.0	-2,749.2	267.0	175.4	91.65	2.914					
10,000.0	7,257.0	7,398.0	7,256.0	69.7	24.5	-90.00	84.0	-2,749.2	185.4	91.4	94.08	1.971					
10,100.0	7,257.0	7,398.0	7,256.0	72.2	24.5	-90.00	84.0	-2,749.2	132.2	35.7	96.52	1.370	Level 3				
10,134.6	7,257.0	7,398.0	7,256.0	73.0	24.5	-90.00	84.0	-2,749.2	127.6	30.2	97.36	1.310	Level 3, CC, ES, SF				
10,200.0	7,257.0	7,398.0	7,256.0	74.6	24.5	-90.00	84.0	-2,749.2	143.4	44.4	98.95	1.449	Level 3				
10,300.0	7,257.0	7,398.0	7,256.0	77.0	24.5	-90.00	84.0	-2,749.2	208.9	107.5	101.39	2.060					
10,400.0	7,257.0	7,398.0	7,256.0	79.5	24.5	-90.00	84.0	-2,749.2	294.5	190.6	103.83	2.836					
10,500.0	7,257.0	7,398.0	7,256.0	81.9	24.5	-90.00	84.0	-2,749.2	387.0	280.8	106.27	3.642					
10,600.0	7,257.0	7,398.0	7,256.0	84.4	24.5	-90.00	84.0	-2,749.2	482.6	373.9	108.72	4.439					

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Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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				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)				
0.0	0.0	0.0	0.0	0.0	0.0	0.00	7.3	0.0	7.3					
100.0	100.0	100.0	100.0	0.2	0.2	0.00	7.3	0.0	7.3	7.0	0.30	23.991		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	7.3	0.0	7.3	6.6	0.65	11.162 CC, ES		
300.0	300.0	299.9	299.9	0.5	0.5	3.63	8.0	0.5	8.0	7.0	1.00	7.990		
400.0	400.0	399.7	399.7	0.7	0.7	-54.61	10.1	2.0	9.8	8.4	1.35	7.241		
500.0	500.0	499.5	499.4	0.9	0.9	-54.94	13.7	4.6	12.1	10.4	1.71	7.098		
600.0	599.9	599.3	599.0	1.0	1.1	-57.42	18.6	8.1	15.0	12.9	2.07	7.233		
700.0	699.7	699.0	698.4	1.2	1.3	-60.82	24.9	12.6	18.4	16.0	2.45	7.518		
800.0	799.4	798.6	797.5	1.4	1.5	-64.43	32.7	18.2	22.6	19.7	2.86	7.885		
900.0	898.9	898.1	896.4	1.7	1.8	-67.89	41.8	24.7	27.4	24.1	3.30	8.288		
1,000.0	998.3	997.6	995.0	1.9	2.0	-71.04	52.4	32.3	32.9	29.1	3.78	8.697		
1,100.0	1,097.4	1,097.0	1,093.3	2.2	2.3	-73.84	64.3	40.8	39.2	34.9	4.31	9.092		
1,200.0	1,196.3	1,196.2	1,191.2	2.5	2.7	-76.30	77.5	50.3	46.3	41.4	4.89	9.462		
1,300.0	1,294.9	1,295.3	1,288.7	2.8	3.0	-78.44	92.2	60.8	54.1	48.6	5.52	9.801		
1,400.0	1,393.3	1,394.3	1,385.7	3.2	3.4	-80.31	108.1	72.2	62.7	56.5	6.21	10.107		
1,500.0	1,491.2	1,493.2	1,482.3	3.5	3.8	-81.93	125.5	84.6	72.1	65.2	6.95	10.381		
1,600.0	1,589.1	1,592.0	1,578.3	3.9	4.2	-82.85	144.1	97.9	82.4	74.6	7.71	10.685		
1,700.0	1,686.9	1,690.5	1,673.8	4.3	4.6	-82.68	164.0	112.2	93.5	85.1	8.47	11.043		
1,800.0	1,784.7	1,789.7	1,769.6	4.7	5.1	-82.08	184.9	127.2	105.3	96.1	9.23	11.407		
1,900.0	1,882.5	1,889.0	1,865.5	5.1	5.6	-81.60	205.8	142.1	117.1	107.1	9.99	11.711		
2,000.0	1,980.3	1,988.3	1,961.4	5.5	6.0	-81.21	226.7	157.1	128.8	118.1	10.76	11.968		
2,100.0	2,078.1	2,087.6	2,057.3	5.9	6.5	-80.88	247.6	172.0	140.6	129.1	11.54	12.187		
2,200.0	2,175.9	2,186.9	2,153.3	6.3	7.0	-80.60	268.5	187.0	152.4	140.1	12.31	12.377		
2,300.0	2,273.8	2,286.2	2,249.2	6.7	7.5	-80.37	289.4	202.0	164.1	151.1	13.09	12.542		
2,400.0	2,371.6	2,385.5	2,345.1	7.1	7.9	-80.16	310.3	216.9	175.9	162.1	13.87	12.687		
2,500.0	2,469.4	2,484.8	2,441.0	7.5	8.4	-79.99	331.2	231.9	187.7	173.1	14.64	12.821		
2,600.0	2,567.6	2,584.1	2,536.9	7.8	8.9	-79.50	352.1	246.8	199.8	184.4	15.36	13.007		
2,700.0	2,666.0	2,683.2	2,632.7	8.2	9.4	-78.63	372.9	261.8	212.2	196.2	16.01	13.252		
2,800.0	2,764.7	2,782.3	2,728.3	8.5	9.9	-77.43	393.8	276.7	225.1	208.5	16.60	13.558		
2,900.0	2,863.7	2,882.3	2,825.0	8.8	10.3	-75.98	414.7	291.7	238.4	221.2	17.12	13.923		
3,000.0	2,963.0	2,984.1	2,923.7	9.0	10.8	-74.53	434.8	306.1	251.3	233.7	17.58	14.297		
3,100.0	3,062.4	3,086.2	3,023.2	9.3	11.2	-73.15	453.6	319.5	263.7	245.7	17.98	14.665		
3,200.0	3,162.0	3,188.7	3,123.4	9.5	11.6	-71.80	470.9	331.9	275.5	257.2	18.33	15.031		
3,300.0	3,261.8	3,291.4	3,224.2	9.7	12.0	-70.49	486.9	343.3	286.8	268.2	18.63	15.396		
3,400.0	3,361.6	3,394.4	3,325.7	9.9	12.3	-69.19	501.4	353.7	297.6	278.7	18.88	15.763		
3,500.0	3,461.5	3,497.7	3,427.7	10.0	12.7	-67.90	514.4	363.1	307.8	288.7	19.08	16.133		
3,600.0	3,561.5	3,601.2	3,530.3	10.1	13.0	-66.61	526.0	371.4	317.5	298.2	19.23	16.507		
3,700.0	3,661.5	3,705.0	3,633.3	10.2	13.2	-3.30	536.1	378.6	326.6	308.3	18.27	17.876		
3,800.0	3,761.5	3,809.2	3,737.0	10.3	13.5	-2.16	544.7	384.8	334.6	315.8	18.82	17.776		
3,900.0	3,861.5	3,913.8	3,841.2	10.5	13.7	-1.26	551.8	389.8	341.2	321.9	19.31	17.667		
4,000.0	3,961.5	4,018.7	3,945.8	10.6	13.8	-0.58	557.4	393.8	346.5	326.7	19.75	17.542		
4,100.0	4,061.5	4,123.7	4,050.8	10.7	14.0	-0.11	561.4	396.7	350.3	330.1	20.13	17.397		
4,200.0	4,161.5	4,228.9	4,155.9	10.8	14.1	0.18	563.8	398.4	352.6	332.1	20.47	17.228		
4,300.0	4,261.5	4,334.2	4,261.2	10.9	14.2	0.28	564.7	399.1	353.4	332.7	20.75	17.029		
4,400.0	4,361.5	4,434.5	4,361.5	11.0	14.3	0.28	564.7	399.1	353.4	332.4	21.02	16.815		
4,500.0	4,461.5	4,534.5	4,461.5	11.2	14.4	0.28	564.7	399.1	353.4	332.1	21.28	16.605		
4,600.0	4,561.5	4,634.5	4,561.5	11.3	14.5	0.28	564.7	399.1	353.4	331.9	21.55	16.399		
4,700.0	4,661.5	4,734.5	4,661.5	11.4	14.6	0.28	564.7	399.1	353.4	331.6	21.82	16.196		
4,800.0	4,761.5	4,834.5	4,761.5	11.5	14.7	0.28	564.7	399.1	353.4	331.3	22.09	15.997		
4,900.0	4,861.5	4,934.5	4,861.5	11.7	14.8	0.28	564.7	399.1	353.4	331.1	22.37	15.801		
5,000.0	4,961.5	5,034.5	4,961.5	11.8	14.9	0.28	564.7	399.1	353.4	330.8	22.64	15.609		
5,100.0	5,061.5	5,134.5	5,061.5	11.9	15.0	0.28	564.7	399.1	353.4	330.5	22.92	15.420		

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

Anticollision Report

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Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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		
5,200.0	5,161.5	5,234.5	5,161.5	12.0	15.1	0.28	564.7	399.1	353.4	330.2	23.20	15.234		
5,300.0	5,261.5	5,334.5	5,261.5	12.2	15.2	0.28	564.7	399.1	353.4	329.9	23.48	15.052		
5,400.0	5,361.5	5,434.5	5,361.5	12.3	15.3	0.28	564.7	399.1	353.4	329.7	23.76	14.873		
5,500.0	5,461.5	5,534.5	5,461.5	12.4	15.4	0.28	564.7	399.1	353.4	329.4	24.05	14.698		
5,600.0	5,561.5	5,634.5	5,561.5	12.6	15.5	0.28	564.7	399.1	353.4	329.1	24.33	14.525		
5,700.0	5,661.5	5,734.5	5,661.5	12.7	15.7	0.28	564.7	399.1	353.4	328.8	24.62	14.356		
5,800.0	5,761.5	5,834.5	5,761.5	12.9	15.8	0.28	564.7	399.1	353.4	328.5	24.91	14.190		
5,900.0	5,861.5	5,934.5	5,861.5	13.0	15.9	0.28	564.7	399.1	353.4	328.2	25.20	14.026		
6,000.0	5,961.5	6,034.5	5,961.5	13.1	16.0	0.28	564.7	399.1	353.4	327.9	25.49	13.866		
6,100.0	6,061.5	6,134.5	6,061.5	13.3	16.1	0.28	564.7	399.1	353.4	327.6	25.78	13.709		
6,200.0	6,161.5	6,234.5	6,161.5	13.4	16.2	0.28	564.7	399.1	353.4	327.3	26.07	13.554		
6,300.0	6,261.5	6,334.5	6,261.5	13.5	16.3	0.28	564.7	399.1	353.4	327.0	26.37	13.403		
6,400.0	6,361.5	6,434.6	6,361.5	13.7	16.4	0.09	564.7	397.9	353.4	326.8	26.64	13.265		
6,409.8	6,371.4	6,444.4	6,371.4	13.7	16.4	-0.01	564.7	397.3	353.4	326.8	26.66	13.257		
6,500.0	6,461.5	6,533.1	6,459.2	13.8	16.4	-1.91	564.7	385.6	353.6	326.9	26.71	13.241		
6,600.0	6,561.5	6,626.6	6,549.5	14.0	16.4	84.21	564.7	361.5	355.4	328.2	27.22	13.057		
6,700.0	6,660.9	6,716.0	6,632.2	14.0	16.2	79.83	564.7	327.8	359.5	332.0	27.50	13.076		
6,800.0	6,758.0	6,800.0	6,705.6	13.9	16.1	75.86	564.7	286.9	365.4	338.0	27.45	13.312		
6,900.0	6,850.9	6,887.1	6,776.0	13.8	15.9	72.06	564.7	235.8	372.5	345.4	27.11	13.743		
7,000.0	6,937.7	6,969.6	6,836.5	13.6	15.8	68.78	564.7	179.8	380.3	353.8	26.55	14.325		
7,100.0	7,016.8	7,050.0	6,889.0	13.4	15.8	65.95	564.7	118.9	388.2	362.3	25.91	14.984		
7,200.0	7,086.7	7,130.1	6,934.1	13.3	15.8	63.54	564.7	52.8	395.8	370.4	25.35	15.611		
7,300.0	7,145.9	7,208.6	6,970.9	13.3	16.0	61.59	564.7	-16.6	402.6	377.4	25.19	15.983		
7,400.0	7,193.3	7,286.4	6,999.6	13.7	16.3	60.08	564.7	-88.8	408.2	382.7	25.54	15.986		
7,500.0	7,228.1	7,363.5	7,020.2	14.6	16.9	59.00	564.7	-163.1	412.5	385.9	26.59	15.516		
7,600.0	7,249.4	7,440.3	7,032.7	15.9	17.7	58.34	564.7	-238.8	415.3	386.9	28.39	14.627		
7,700.0	7,257.0	7,518.8	7,037.0	17.5	18.8	58.10	564.7	-317.1	416.3	385.4	30.91	13.468		
7,733.8	7,257.2	7,550.0	7,037.0	18.0	19.2	58.08	564.7	-348.3	416.4	384.5	31.85	13.072		
7,800.0	7,257.0	7,616.2	7,037.0	19.2	20.3	58.10	564.7	-414.6	416.3	382.5	33.81	12.311		
7,900.0	7,257.0	7,716.2	7,037.0	21.1	22.1	58.10	564.7	-514.6	416.3	379.3	36.98	11.256		
8,000.0	7,257.0	7,816.2	7,037.0	23.1	24.0	58.10	564.8	-614.6	416.3	375.9	40.34	10.319		
8,100.0	7,257.0	7,916.2	7,037.0	25.2	26.0	58.10	564.8	-714.6	416.3	372.4	43.85	9.494		
8,200.0	7,257.0	8,016.2	7,037.0	27.3	28.1	58.10	564.8	-814.6	416.3	368.8	47.46	8.770		
8,300.0	7,257.0	8,116.2	7,037.0	29.5	30.3	58.10	564.8	-914.6	416.3	365.1	51.17	8.135		
8,400.0	7,257.0	8,216.2	7,037.0	31.7	32.5	58.10	564.8	-1,014.6	416.3	361.3	54.95	7.575		
8,500.0	7,257.0	8,316.2	7,037.0	34.0	34.7	58.10	564.8	-1,114.6	416.3	357.5	58.79	7.080		
8,600.0	7,257.0	8,416.2	7,037.0	36.3	37.0	58.10	564.8	-1,214.6	416.3	353.6	62.68	6.641		
8,700.0	7,257.0	8,516.2	7,037.0	38.6	39.2	58.10	564.8	-1,314.6	416.3	349.7	66.60	6.250		
8,800.0	7,257.0	8,616.2	7,037.0	40.9	41.6	58.10	564.8	-1,414.6	416.3	345.7	70.56	5.900		
8,900.0	7,257.0	8,716.2	7,037.0	43.3	43.9	58.10	564.8	-1,514.6	416.3	341.7	74.55	5.584		
9,000.0	7,257.0	8,816.2	7,037.0	45.7	46.2	58.10	564.8	-1,614.6	416.3	337.7	78.55	5.299		
9,100.0	7,257.0	8,916.2	7,037.0	48.0	48.6	58.10	564.8	-1,714.6	416.3	333.7	82.58	5.041		
9,200.0	7,257.0	9,016.2	7,037.0	50.4	50.9	58.10	564.8	-1,814.6	416.3	329.6	86.63	4.805		
9,300.0	7,257.0	9,116.2	7,037.0	52.8	53.3	58.10	564.8	-1,914.6	416.3	325.6	90.68	4.590		
9,400.0	7,257.0	9,216.2	7,037.0	55.2	55.7	58.10	564.9	-2,014.6	416.3	321.5	94.76	4.393		
9,500.0	7,257.0	9,316.2	7,037.0	57.6	58.1	58.10	564.9	-2,114.6	416.3	317.4	98.84	4.212		
9,600.0	7,257.0	9,416.2	7,037.0	60.0	60.5	58.10	564.9	-2,214.6	416.3	313.3	102.93	4.044		
9,700.0	7,257.0	9,516.2	7,037.0	62.5	62.9	58.10	564.9	-2,314.6	416.3	309.2	107.03	3.889		
9,800.0	7,257.0	9,616.2	7,037.0	64.9	65.3	58.10	564.9	-2,414.6	416.3	305.1	111.14	3.745		
9,900.0	7,257.0	9,716.2	7,037.0	67.3	67.7	58.10	564.9	-2,514.6	416.3	301.0	115.26	3.612		
10,000.0	7,257.0	9,816.2	7,037.0	69.7	70.1	58.10	564.9	-2,614.6	416.3	296.9	119.38	3.487		
10,100.0	7,257.0	9,916.2	7,037.0	72.2	72.6	58.10	564.9	-2,714.6	416.3	292.8	123.51	3.370		

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 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
10,200.0	7,257.0	10,016.2	7,037.0	74.6	75.0	58.10	564.9	-2,814.6	416.3	288.6	127.65	3.261	
10,300.0	7,257.0	10,116.2	7,037.0	77.0	77.4	58.09	564.9	-2,914.6	416.3	284.5	131.78	3.159	
10,400.0	7,257.0	10,216.2	7,037.0	79.5	79.9	58.09	564.9	-3,014.6	416.3	280.3	135.93	3.062	
10,500.0	7,257.0	10,316.2	7,037.0	81.9	82.3	58.09	564.9	-3,114.6	416.3	276.2	140.07	2.972	
10,600.0	7,257.0	10,416.2	7,037.0	84.4	84.7	58.09	564.9	-3,214.6	416.3	272.0	144.22	2.886	
10,700.0	7,257.0	10,516.2	7,037.0	86.8	87.2	58.09	565.0	-3,314.6	416.3	267.9	148.37	2.805	
10,800.0	7,257.0	10,616.2	7,037.0	89.2	89.6	58.09	565.0	-3,414.6	416.3	263.7	152.53	2.729	
10,900.0	7,257.0	10,716.2	7,037.0	91.7	92.1	58.09	565.0	-3,514.6	416.3	259.6	156.69	2.657	
11,000.0	7,257.0	10,816.2	7,037.0	94.1	94.5	58.09	565.0	-3,614.6	416.3	255.4	160.85	2.588	
11,100.0	7,257.0	10,916.2	7,037.0	96.6	96.9	58.09	565.0	-3,714.6	416.3	251.2	165.01	2.523	
11,200.0	7,257.0	11,016.2	7,037.0	99.0	99.4	58.09	565.0	-3,814.6	416.3	247.1	169.18	2.460	
11,300.0	7,257.0	11,116.2	7,037.0	101.5	101.8	58.09	565.0	-3,914.6	416.3	242.9	173.35	2.401	
11,400.0	7,257.0	11,216.2	7,037.0	104.0	104.3	58.09	565.0	-4,014.6	416.3	238.7	177.51	2.345	
11,500.0	7,257.0	11,316.2	7,037.0	106.4	106.7	58.09	565.0	-4,114.6	416.2	234.6	181.68	2.291	
11,600.0	7,257.0	11,416.2	7,037.0	108.9	109.2	58.09	565.0	-4,214.6	416.2	230.4	185.86	2.240	
11,655.4	7,257.0	11,471.6	7,037.0	110.2	110.5	58.09	565.0	-4,269.9	416.2	228.1	188.17	2.212 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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		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	180.00	-10.9	0.0	11.0					
100.0	100.0	99.0	99.0	0.2	0.2	180.00	-10.9	0.0	10.9	10.6	0.30	36.167		
200.0	200.0	199.0	199.0	0.3	0.3	180.00	-10.9	0.0	10.9	10.3	0.65	16.787		
300.0	300.0	299.0	299.0	0.5	0.5	180.00	-10.9	0.0	10.9	9.9	1.00	10.928 CC, ES		
400.0	400.0	399.0	399.0	0.7	0.7	121.88	-10.9	0.0	11.4	10.0	1.35	8.421		
500.0	500.0	498.9	498.9	0.9	0.8	128.01	-11.2	0.8	13.0	11.3	1.70	7.654		
600.0	599.9	598.9	598.8	1.0	1.0	131.05	-12.0	3.3	16.1	14.0	2.06	7.803		
700.0	699.7	698.7	698.6	1.2	1.2	131.80	-13.3	7.4	20.4	18.0	2.43	8.404		
800.0	799.4	798.6	798.2	1.4	1.4	131.27	-15.1	13.2	26.0	23.2	2.82	9.242		
900.0	898.9	898.3	897.6	1.7	1.6	130.19	-17.4	20.7	32.9	29.7	3.23	10.199		
1,000.0	998.3	997.9	996.8	1.9	1.8	128.92	-20.3	29.7	41.1	37.5	3.67	11.200		
1,100.0	1,097.4	1,097.3	1,095.6	2.2	2.1	127.65	-23.7	40.4	50.6	46.5	4.15	12.199		
1,200.0	1,196.3	1,196.6	1,194.0	2.5	2.3	126.46	-27.6	52.7	61.4	56.8	4.67	13.162		
1,300.0	1,294.9	1,295.7	1,292.0	2.8	2.6	125.37	-31.9	66.6	73.5	68.3	5.23	14.069		
1,400.0	1,393.3	1,394.5	1,389.5	3.2	2.9	124.38	-36.8	82.1	87.0	81.1	5.83	14.911		
1,500.0	1,491.2	1,493.4	1,486.9	3.5	3.2	123.91	-42.0	98.5	101.5	95.1	6.46	15.708		
1,600.0	1,589.1	1,592.3	1,584.3	3.9	3.6	124.01	-47.1	114.9	116.6	109.5	7.11	16.408		
1,700.0	1,686.9	1,691.1	1,681.6	4.3	3.9	124.09	-52.3	131.2	131.7	123.9	7.76	16.974		
1,800.0	1,784.7	1,790.0	1,779.0	4.7	4.2	124.15	-57.5	147.6	146.7	138.3	8.41	17.439		
1,900.0	1,882.5	1,888.9	1,876.4	5.1	4.6	124.20	-62.6	164.0	161.8	152.7	9.08	17.826		
2,000.0	1,980.3	1,987.7	1,973.7	5.5	4.9	124.24	-67.8	180.3	176.8	167.1	9.74	18.152		
2,100.0	2,078.1	2,086.6	2,071.1	5.9	5.2	124.27	-73.0	196.7	191.9	181.5	10.41	18.431		
2,200.0	2,175.9	2,185.4	2,168.4	6.3	5.6	124.30	-78.1	213.1	207.0	195.9	11.08	18.672		
2,300.0	2,273.8	2,284.3	2,265.8	6.7	5.9	124.33	-83.3	229.5	222.0	210.3	11.76	18.882		
2,400.0	2,371.6	2,383.2	2,363.1	7.1	6.3	124.35	-88.4	245.8	237.1	224.6	12.44	19.066		
2,500.0	2,469.4	2,482.0	2,460.5	7.5	6.6	124.39	-93.6	262.2	252.1	239.0	13.11	19.223		
2,600.0	2,567.6	2,581.0	2,558.0	7.8	6.9	124.25	-98.8	278.6	266.3	252.5	13.78	19.322		
2,700.0	2,666.0	2,680.1	2,655.6	8.2	7.3	123.82	-103.9	295.0	279.5	265.0	14.44	19.357		
2,800.0	2,764.7	2,779.3	2,753.2	8.5	7.6	123.15	-109.1	311.4	291.8	276.7	15.09	19.340		
2,900.0	2,863.7	2,879.1	2,851.5	8.8	8.0	122.29	-114.3	327.8	303.2	287.4	15.72	19.290		
3,000.0	2,963.0	2,979.7	2,950.9	9.0	8.3	121.48	-119.0	342.8	313.3	297.1	16.30	19.226		
3,100.0	3,062.4	3,080.5	3,050.8	9.3	8.6	120.75	-123.2	356.2	322.3	305.4	16.83	19.146		
3,200.0	3,162.0	3,181.7	3,151.2	9.5	8.8	120.08	-126.9	367.9	329.9	312.6	17.32	19.048		
3,300.0	3,261.8	3,283.0	3,251.9	9.7	9.1	119.47	-130.1	378.0	336.3	318.5	17.76	18.932		
3,400.0	3,361.6	3,384.5	3,353.0	9.9	9.3	118.89	-132.7	386.3	341.4	323.2	18.16	18.797		
3,500.0	3,461.5	3,486.1	3,454.4	10.0	9.5	118.35	-134.8	393.0	345.1	326.6	18.51	18.642		
3,600.0	3,561.5	3,587.9	3,556.1	10.1	9.7	117.84	-136.4	398.0	347.6	328.7	18.82	18.465		
3,700.0	3,661.5	3,689.7	3,657.9	10.2	9.8	117.36	-137.4	401.2	348.7	334.5	14.19	24.571		
3,800.0	3,761.5	3,791.6	3,759.8	10.3	10.0	117.11	-137.9	402.7	349.2	334.7	14.51	24.068		
3,900.0	3,861.5	3,892.4	3,860.5	10.5	10.1	117.09	-137.9	402.9	349.3	334.4	14.83	23.551		
4,000.0	3,961.5	3,992.4	3,960.5	10.6	10.2	117.09	-137.9	402.9	349.3	334.1	15.15	23.054		
4,100.0	4,061.5	4,092.4	4,060.5	10.7	10.3	117.09	-137.9	402.9	349.3	333.8	15.47	22.575		
4,200.0	4,161.5	4,192.4	4,160.5	10.8	10.4	117.09	-137.9	402.9	349.3	333.5	15.79	22.114		
4,300.0	4,261.5	4,292.4	4,260.5	10.9	10.6	117.09	-137.9	402.9	349.3	333.1	16.12	21.670		
4,400.0	4,361.5	4,392.4	4,360.5	11.0	10.7	117.09	-137.9	402.9	349.3	332.8	16.44	21.242		
4,500.0	4,461.5	4,492.4	4,460.5	11.2	10.8	117.09	-137.9	402.9	349.3	332.5	16.77	20.830		
4,600.0	4,561.5	4,592.4	4,560.5	11.3	10.9	117.09	-137.9	402.9	349.3	332.2	17.09	20.432		
4,700.0	4,661.5	4,692.4	4,660.5	11.4	11.1	117.09	-137.9	402.9	349.3	331.8	17.42	20.048		
4,800.0	4,761.5	4,792.4	4,760.5	11.5	11.2	117.09	-137.9	402.9	349.3	331.5	17.75	19.677		
4,900.0	4,861.5	4,892.4	4,860.5	11.7	11.3	117.09	-137.9	402.9	349.3	331.2	18.08	19.319		
5,000.0	4,961.5	4,992.4	4,960.5	11.8	11.4	117.09	-137.9	402.9	349.3	330.8	18.41	18.973		
5,100.0	5,061.5	5,092.4	5,060.5	11.9	11.6	117.09	-137.9	402.9	349.3	330.5	18.74	18.639		

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 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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)						
5,200.0	5,161.5	5,192.4	5,160.5	12.0	11.7	179.09	-137.9	402.9	349.3	330.2	19.07	18.315		
5,300.0	5,261.5	5,292.4	5,260.5	12.2	11.9	179.09	-137.9	402.9	349.3	329.9	19.40	18.002		
5,400.0	5,361.5	5,392.4	5,360.5	12.3	12.0	179.09	-137.9	402.9	349.3	329.5	19.73	17.699		
5,500.0	5,461.5	5,492.4	5,460.5	12.4	12.1	179.09	-137.9	402.9	349.3	329.2	20.07	17.406		
5,600.0	5,561.5	5,592.4	5,560.5	12.6	12.3	179.09	-137.9	402.9	349.3	328.9	20.40	17.121		
5,700.0	5,661.5	5,692.4	5,660.5	12.7	12.4	179.09	-137.9	402.9	349.3	328.5	20.73	16.845		
5,800.0	5,761.5	5,792.4	5,760.5	12.9	12.5	179.09	-137.9	402.9	349.3	328.2	21.07	16.578		
5,900.0	5,861.5	5,892.4	5,860.5	13.0	12.7	179.09	-137.9	402.9	349.3	327.9	21.40	16.319		
6,000.0	5,961.5	5,992.4	5,960.5	13.1	12.8	179.09	-137.9	402.9	349.3	327.5	21.74	16.067		
6,100.0	6,061.5	6,092.4	6,060.5	13.3	13.0	179.09	-137.9	402.9	349.3	327.2	22.07	15.823		
6,200.0	6,161.5	6,192.4	6,160.5	13.4	13.1	179.09	-137.9	402.9	349.3	326.8	22.41	15.585		
6,300.0	6,261.5	6,292.4	6,260.5	13.5	13.3	179.09	-137.9	402.9	349.3	326.5	22.75	15.355		
6,400.0	6,361.5	6,392.6	6,360.8	13.7	13.4	179.29	-137.9	401.7	349.2	326.2	23.09	15.128		
6,448.0	6,409.5	6,440.6	6,408.5	13.8	13.4	180.00	-137.9	397.3	349.2	326.0	23.26	15.015		
6,500.0	6,461.5	6,491.7	6,458.9	13.8	13.4	-178.67	-137.9	389.2	349.3	325.9	23.45	14.894		
6,600.0	6,561.5	6,585.6	6,549.6	14.0	13.3	-84.71	-137.9	365.0	350.9	324.4	26.44	13.271		
6,700.0	6,660.9	6,675.4	6,632.6	14.0	13.1	-80.25	-138.0	330.9	354.8	328.6	26.17	13.554		
6,800.0	6,758.0	6,762.4	6,708.4	13.9	12.9	-76.09	-138.0	288.3	360.5	334.8	25.76	13.995		
6,900.0	6,850.9	6,850.0	6,778.9	13.8	12.7	-72.19	-138.0	236.4	367.6	342.4	25.27	14.551		
7,000.0	6,937.7	6,929.8	6,837.1	13.6	12.6	-68.93	-138.0	181.9	375.5	350.6	24.81	15.131		
7,100.0	7,016.8	7,010.8	6,889.8	13.4	12.6	-66.01	-138.0	120.3	383.5	359.0	24.47	15.672		
7,200.0	7,086.7	7,090.6	6,934.4	13.3	12.7	-63.54	-138.0	54.3	391.2	366.8	24.36	16.060		
7,300.0	7,145.9	7,169.2	6,971.0	13.3	13.2	-61.52	-138.0	-15.3	398.2	373.5	24.61	16.176		
7,400.0	7,193.3	7,250.0	7,000.4	13.7	13.9	-59.91	-138.0	-90.4	404.1	378.7	25.31	15.962		
7,500.0	7,228.1	7,324.3	7,019.8	14.6	14.8	-58.81	-138.0	-162.1	408.6	382.1	26.50	15.419		
7,600.0	7,249.4	7,400.0	7,031.9	15.9	15.9	-58.10	-138.0	-236.8	411.5	383.4	28.18	14.606		
7,700.0	7,257.0	7,477.9	7,036.0	17.5	17.1	-57.80	-138.0	-314.6	412.8	382.4	30.36	13.598		
7,800.0	7,257.0	7,577.9	7,036.0	19.2	18.9	-57.80	-138.0	-414.6	412.8	379.5	33.30	12.395		
7,900.0	7,257.0	7,677.9	7,036.0	21.1	20.8	-57.80	-138.0	-514.6	412.8	376.3	36.49	11.313		
8,000.0	7,257.0	7,777.9	7,036.0	23.1	22.8	-57.80	-138.0	-614.6	412.8	373.0	39.86	10.357		
8,100.0	7,257.0	7,877.9	7,036.0	25.2	24.9	-57.80	-138.0	-714.6	412.8	369.5	43.38	9.517		
8,200.0	7,257.0	7,977.9	7,036.0	27.3	27.1	-57.80	-138.0	-814.6	412.8	365.8	47.00	8.783		
8,300.0	7,257.0	8,077.9	7,036.0	29.5	29.3	-57.80	-138.0	-914.6	412.9	362.1	50.72	8.140		
8,400.0	7,257.0	8,177.9	7,036.0	31.7	31.6	-57.80	-138.0	-1,014.6	412.9	358.4	54.50	7.575		
8,500.0	7,257.0	8,277.9	7,036.0	34.0	33.9	-57.80	-138.0	-1,114.6	412.9	354.5	58.34	7.076		
8,600.0	7,257.0	8,377.9	7,036.0	36.3	36.2	-57.80	-138.0	-1,214.6	412.9	350.7	62.23	6.635		
8,700.0	7,257.0	8,477.9	7,036.0	38.6	38.5	-57.80	-138.0	-1,314.6	412.9	346.7	66.15	6.241		
8,800.0	7,257.0	8,577.9	7,036.0	40.9	40.8	-57.80	-138.0	-1,414.6	412.9	342.8	70.11	5.889		
8,900.0	7,257.0	8,677.9	7,036.0	43.3	43.2	-57.80	-138.0	-1,514.6	412.9	338.8	74.09	5.573		
9,000.0	7,257.0	8,777.9	7,036.0	45.7	45.6	-57.81	-138.0	-1,614.6	412.9	334.8	78.10	5.287		
9,100.0	7,257.0	8,877.9	7,036.0	48.0	48.0	-57.81	-138.0	-1,714.6	412.9	330.8	82.12	5.028		
9,200.0	7,257.0	8,977.9	7,036.0	50.4	50.3	-57.81	-138.0	-1,814.6	412.9	326.8	86.16	4.793		
9,300.0	7,257.0	9,077.9	7,036.0	52.8	52.7	-57.81	-138.0	-1,914.6	412.9	322.7	90.21	4.578		
9,400.0	7,257.0	9,177.9	7,036.0	55.2	55.1	-57.81	-138.0	-2,014.6	413.0	318.7	94.28	4.380		
9,500.0	7,257.0	9,277.9	7,036.0	57.6	57.6	-57.81	-138.0	-2,114.6	413.0	314.6	98.35	4.199		
9,600.0	7,257.0	9,377.9	7,036.0	60.0	60.0	-57.81	-138.0	-2,214.6	413.0	310.5	102.44	4.031		
9,700.0	7,257.0	9,477.9	7,036.0	62.5	62.4	-57.81	-138.0	-2,314.6	413.0	306.4	106.53	3.877		
9,800.0	7,257.0	9,577.9	7,036.0	64.9	64.8	-57.81	-138.0	-2,414.6	413.0	302.4	110.64	3.733		
9,900.0	7,257.0	9,677.9	7,036.0	67.3	67.3	-57.81	-138.0	-2,514.6	413.0	298.3	114.74	3.599		
10,000.0	7,257.0	9,777.9	7,036.0	69.7	69.7	-57.81	-138.0	-2,614.6	413.0	294.1	118.86	3.475		
10,100.0	7,257.0	9,877.9	7,036.0	72.2	72.1	-57.81	-138.0	-2,714.6	413.0	290.0	122.98	3.358		
10,200.0	7,257.0	9,977.9	7,036.0	74.6	74.6	-57.82	-138.0	-2,814.6	413.0	285.9	127.11	3.249		

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 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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			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	7,257.0	10,077.9	7,036.0	77.0	77.0	-57.82	-138.0	-2,914.6	413.0	281.8	131.24	3.147		
10,400.0	7,257.0	10,177.9	7,036.0	79.5	79.4	-57.82	-138.0	-3,014.6	413.0	277.7	135.37	3.051		
10,500.0	7,257.0	10,277.9	7,036.0	81.9	81.9	-57.82	-138.0	-3,114.6	413.1	273.5	139.51	2.961		
10,600.0	7,257.0	10,377.9	7,036.0	84.4	84.3	-57.82	-138.0	-3,214.6	413.1	269.4	143.65	2.876		
10,700.0	7,257.0	10,477.9	7,036.0	86.8	86.8	-57.82	-138.0	-3,314.6	413.1	265.3	147.79	2.795		
10,800.0	7,257.0	10,577.9	7,036.0	89.2	89.2	-57.82	-138.0	-3,414.6	413.1	261.1	151.94	2.719		
10,900.0	7,257.0	10,677.9	7,036.0	91.7	91.7	-57.82	-138.0	-3,514.6	413.1	257.0	156.09	2.647		
11,000.0	7,257.0	10,777.9	7,036.0	94.1	94.1	-57.82	-138.0	-3,614.6	413.1	252.9	160.24	2.578		
11,100.0	7,257.0	10,877.9	7,036.0	96.6	96.6	-57.82	-138.0	-3,714.6	413.1	248.7	164.39	2.513		
11,200.0	7,257.0	10,977.9	7,036.0	99.0	99.0	-57.82	-138.0	-3,814.6	413.1	244.6	168.55	2.451		
11,300.0	7,257.0	11,077.9	7,036.0	101.5	101.5	-57.82	-138.0	-3,914.6	413.1	240.4	172.71	2.392		
11,400.0	7,257.0	11,177.9	7,036.0	104.0	103.9	-57.82	-138.0	-4,014.6	413.1	236.3	176.87	2.336		
11,500.0	7,257.0	11,277.9	7,036.0	106.4	106.4	-57.83	-138.0	-4,114.6	413.1	232.1	181.03	2.282		
11,600.0	7,257.0	11,377.9	7,036.0	108.9	108.9	-57.83	-138.1	-4,214.6	413.2	228.0	185.19	2.231		
11,655.4	7,257.0	11,433.3	7,036.0	110.2	110.2	-57.83	-138.1	-4,270.0	413.2	225.7	187.50	2.204 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor	Warning	
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-21.9	0.0	21.9					
100.0	100.0	99.0	99.0	0.2	0.2	180.00	-21.9	0.0	21.9	21.6	0.30	72.334		
200.0	200.0	199.0	199.0	0.3	0.3	180.00	-21.9	0.0	21.9	21.2	0.65	33.574		
300.0	300.0	299.0	299.0	0.5	0.5	180.00	-21.9	0.0	21.9	20.9	1.00	21.856 CC, ES		
400.0	400.0	398.7	398.7	0.7	0.7	118.52	-22.5	0.6	22.9	21.6	1.35	16.979		
500.0	500.0	498.3	498.3	0.9	0.9	119.76	-24.4	2.3	26.1	24.4	1.70	15.332		
600.0	599.9	597.8	597.7	1.0	1.0	121.25	-27.7	5.1	31.5	29.4	2.06	15.240 SF		
700.0	699.7	697.1	696.8	1.2	1.2	122.63	-32.2	9.0	39.0	36.5	2.44	15.986		
800.0	799.4	796.1	795.5	1.4	1.4	123.76	-38.1	14.1	48.7	45.8	2.83	17.201		
900.0	898.9	894.8	893.7	1.7	1.7	124.63	-45.1	20.2	60.5	57.2	3.24	18.673		
1,000.0	998.3	993.0	991.3	1.9	1.9	125.28	-53.5	27.5	74.4	70.8	3.67	20.270		
1,100.0	1,097.4	1,090.8	1,088.3	2.2	2.2	125.75	-63.0	35.7	90.5	86.4	4.13	21.906		
1,200.0	1,196.3	1,188.0	1,184.5	2.5	2.4	126.09	-73.7	45.1	108.7	104.1	4.62	23.526		
1,300.0	1,294.9	1,284.7	1,279.8	2.8	2.8	126.33	-85.6	55.4	129.0	123.9	5.14	25.094		
1,400.0	1,393.3	1,380.6	1,374.2	3.2	3.1	126.50	-98.5	66.7	151.4	145.7	5.69	26.588		
1,500.0	1,491.2	1,475.9	1,467.6	3.5	3.4	126.60	-112.6	78.9	175.7	169.5	6.28	27.998		
1,600.0	1,589.1	1,572.1	1,561.7	3.9	3.8	126.78	-127.7	92.0	201.4	194.5	6.88	29.259		
1,700.0	1,686.9	1,668.7	1,656.3	4.3	4.2	126.90	-142.8	105.2	227.0	219.5	7.50	30.281		
1,800.0	1,784.7	1,765.4	1,750.8	4.7	4.5	127.00	-158.0	118.3	252.7	244.6	8.12	31.124		
1,900.0	1,882.5	1,862.0	1,845.4	5.1	4.9	127.08	-173.2	131.5	278.4	269.6	8.75	31.828		
2,000.0	1,980.3	1,958.7	1,939.9	5.5	5.3	127.15	-188.3	144.7	304.0	294.7	9.38	32.424		
2,100.0	2,078.1	2,055.3	2,034.4	5.9	5.7	127.21	-203.5	157.9	329.7	319.7	10.01	32.934		
2,200.0	2,175.9	2,152.0	2,129.0	6.3	6.1	127.26	-218.7	171.1	355.4	344.7	10.65	33.376		
2,300.0	2,273.8	2,248.6	2,223.5	6.7	6.4	127.30	-233.8	184.3	381.0	369.7	11.29	33.760		
2,400.0	2,371.6	2,345.3	2,318.0	7.1	6.8	127.34	-249.0	197.4	406.7	394.8	11.93	34.098		
2,500.0	2,469.4	2,441.9	2,412.6	7.5	7.2	127.44	-264.2	210.6	432.3	419.7	12.57	34.384		
2,600.0	2,567.6	2,538.8	2,507.4	7.8	7.6	127.51	-279.4	223.8	457.0	443.8	13.21	34.610		
2,700.0	2,666.0	2,635.9	2,602.4	8.2	8.0	127.41	-294.6	237.1	480.7	466.9	13.82	34.783		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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 1E-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)				
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-32.8	0.0	32.8					
100.0	100.0	99.0	99.0	0.2	0.2	180.00	-32.8	0.0	32.8	32.5	0.30	108.502		
200.0	200.0	199.0	199.0	0.3	0.3	180.00	-32.8	0.0	32.8	32.1	0.65	50.362 CC, ES		
300.0	300.0	298.5	298.5	0.5	0.5	179.35	-33.5	0.4	33.5	32.5	1.00	33.566		
400.0	400.0	397.9	397.9	0.7	0.7	116.77	-35.8	1.5	36.3	34.9	1.35	26.895		
500.0	500.0	497.2	497.0	0.9	0.9	117.39	-39.7	3.4	41.4	39.7	1.70	24.296		
600.0	599.9	596.2	595.9	1.0	1.1	118.75	-45.0	6.1	48.8	46.8	2.06	23.657 SF		
700.0	699.7	694.9	694.3	1.2	1.3	120.38	-51.9	9.6	58.7	56.2	2.44	24.086		
800.0	799.4	793.1	792.1	1.4	1.5	122.00	-60.2	13.7	70.9	68.1	2.82	25.133		
900.0	898.9	890.9	889.2	1.7	1.7	123.46	-70.0	18.6	85.6	82.4	3.23	26.541		
1,000.0	998.3	988.1	985.6	1.9	2.0	124.72	-81.2	24.2	102.8	99.1	3.65	28.148		
1,100.0	1,097.4	1,084.5	1,081.0	2.2	2.3	125.78	-93.7	30.5	122.3	118.2	4.10	29.851		
1,200.0	1,196.3	1,180.3	1,175.5	2.5	2.6	126.66	-107.6	37.5	144.2	139.7	4.57	31.581		
1,300.0	1,294.9	1,275.2	1,268.9	2.8	2.9	127.38	-122.7	45.0	168.5	163.5	5.06	33.294		
1,400.0	1,393.3	1,369.2	1,361.1	3.2	3.3	127.97	-139.1	53.2	195.1	189.6	5.58	34.960		
1,500.0	1,491.2	1,462.2	1,452.0	3.5	3.6	128.45	-156.6	62.0	224.1	217.9	6.13	36.562		
1,600.0	1,589.1	1,554.3	1,541.8	3.9	4.0	128.93	-175.2	71.3	254.7	248.0	6.70	38.041		
1,700.0	1,686.9	1,645.8	1,630.5	4.3	4.4	129.11	-195.0	81.2	286.6	279.3	7.28	39.383		
1,800.0	1,784.7	1,738.0	1,719.7	4.7	4.9	129.10	-216.2	91.8	319.5	311.7	7.87	40.596		
1,900.0	1,882.5	1,832.4	1,810.8	5.1	5.3	129.06	-238.0	102.8	352.7	344.2	8.48	41.608		
2,000.0	1,980.3	1,926.7	1,901.9	5.5	5.7	129.02	-259.8	113.7	385.8	376.7	9.09	42.464		
2,100.0	2,078.1	2,021.1	1,993.1	5.9	6.2	128.99	-281.7	124.6	418.9	409.2	9.70	43.198		
2,200.0	2,175.9	2,115.4	2,084.2	6.3	6.6	128.97	-303.5	135.6	452.1	441.8	10.31	43.832		
2,300.0	2,273.8	2,209.8	2,175.3	6.7	7.1	128.95	-325.3	146.5	485.2	474.3	10.93	44.384		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Drieth 1B-6H-A368
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5100.0ft (Original Well Elev)
Reference Site:	S6-T3N-R68W (Zisch/Drieth 1)	MD Reference:	WELL @ 5100.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Drieth 1B-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 @ 5100.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Drieth 1B-6H-A368

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.30°

