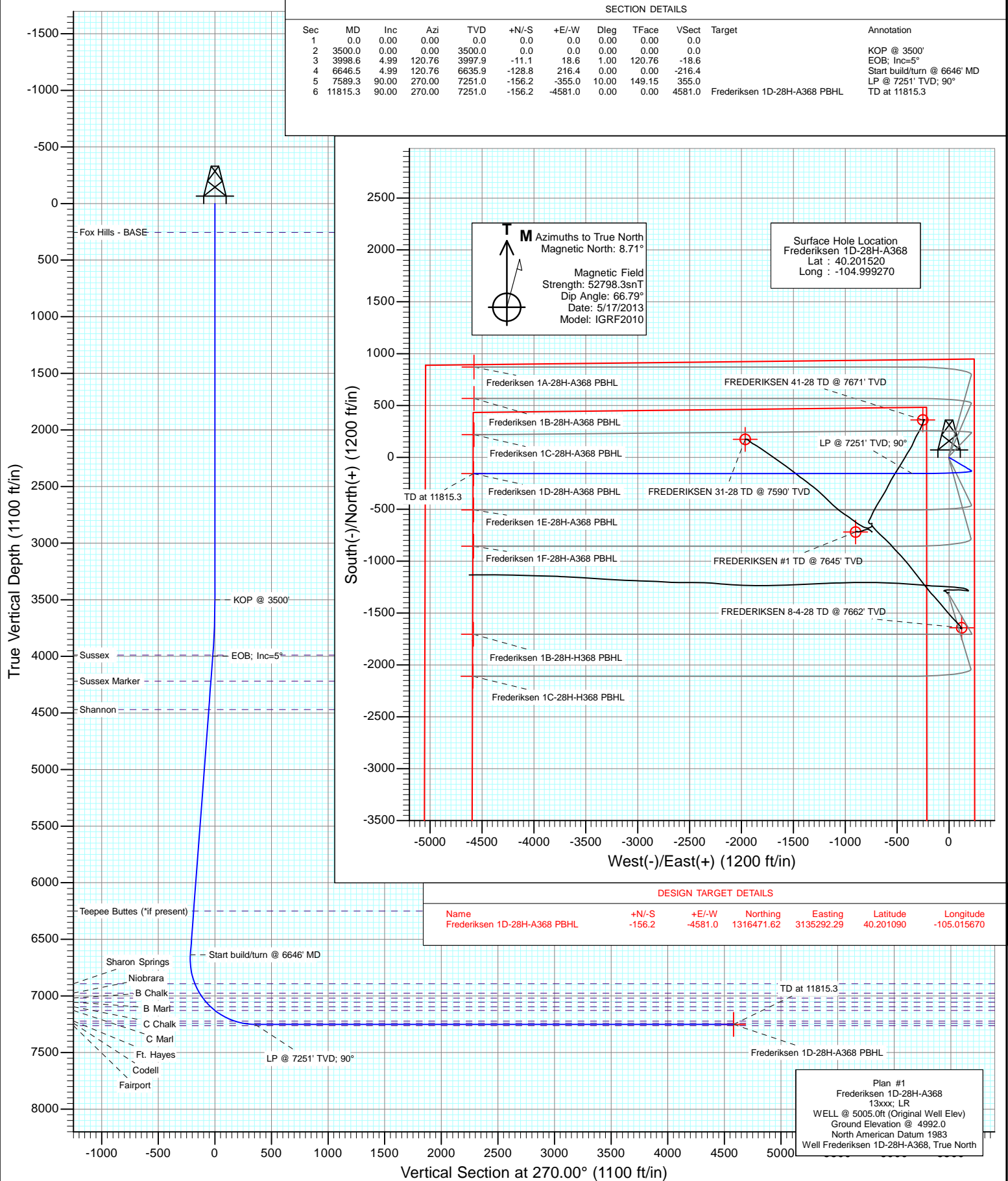




Project: DJ Wattenberg  
Site: S28-T3N-R68W (Frederiksen)  
Well: Frederiksen 1D-28H-A368  
Wellbore: Hz  
Design: Plan #1



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site:</b>	S28-T3N-R68W (Frederiksen)	<b>North Reference:</b>	True
<b>Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

<b>Project</b>	DJ Wattenberg		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		

Site		S28-T3N-R68W (Frederiksen)			
Site Position:		Northing:	1,315,349.57 ft	Latitude:	40.197940
From:	Lat/Long	Easting:	3,139,876.89 ft	Longitude:	-104.999280
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.32 °

Well	Frederiksen 1D-28H-A368					
Well Position	+N/-S	0.0 ft	Northing:	1,316,653.70 ft	Latitude:	40.201520
	+E/-W	0.0 ft	Easting:	3,139,872.32 ft	Longitude:	-104.999270
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,992.0 ft

<b>Wellbore</b>	Hz				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	5/17/2013	8.71	66.79	52,798

<b>Design</b>	Plan #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN		<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	270.00	

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,998.6	4.99	120.76	3,997.9	-11.1	18.6	1.00	1.00	0.00	120.76	
6,646.5	4.99	120.76	6,635.9	-128.8	216.4	0.00	0.00	0.00	0.00	
7,589.3	90.00	270.00	7,251.0	-156.2	-355.0	10.00	9.02	15.83	149.15	
11,815.3	90.00	270.00	7,251.0	-156.2	-4,581.0	0.00	0.00	0.00	0.00	Frederiksen 1D-28H-4

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site:</b>	S28-T3N-R68W (Frederiksen)	<b>North Reference:</b>	True
<b>Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	
255.0	0.00	0.00	255.0	0.0	0.0	0.0	0.00	0.00	Fox Hills - BASE
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	KOP @ 3500'
3,600.0	1.00	120.76	3,600.0	-0.4	0.7	-0.7	1.00	1.00	
3,700.0	2.00	120.76	3,700.0	-1.8	3.0	-3.0	1.00	1.00	
3,800.0	3.00	120.76	3,799.9	-4.0	6.7	-6.7	1.00	1.00	
3,900.0	4.00	120.76	3,899.7	-7.1	12.0	-12.0	1.00	1.00	
3,989.6	4.90	120.76	3,989.0	-10.7	18.0	-18.0	1.00	1.00	Sussex
3,998.6	4.99	120.76	3,997.9	-11.1	18.6	-18.6	1.00	1.00	EOB; Inc=5°
4,000.0	4.99	120.76	3,999.4	-11.1	18.7	-18.7	0.00	0.00	
4,100.0	4.99	120.76	4,099.0	-15.6	26.2	-26.2	0.00	0.00	
4,200.0	4.99	120.76	4,198.6	-20.0	33.7	-33.7	0.00	0.00	
4,220.5	4.99	120.76	4,219.0	-20.9	35.2	-35.2	0.00	0.00	Sussex Marker
4,300.0	4.99	120.76	4,298.2	-24.5	41.1	-41.1	0.00	0.00	
4,400.0	4.99	120.76	4,397.9	-28.9	48.6	-48.6	0.00	0.00	
4,472.4	4.99	120.76	4,470.0	-32.1	54.0	-54.0	0.00	0.00	Shannon
4,500.0	4.99	120.76	4,497.5	-33.4	56.1	-56.1	0.00	0.00	
4,600.0	4.99	120.76	4,597.1	-37.8	63.5	-63.5	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site:</b>	S28-T3N-R68W (Frederiksen)	<b>North Reference:</b>	True
<b>Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	4.99	120.76	4,696.7	-42.3	71.0	-71.0	0.00	0.00	
4,800.0	4.99	120.76	4,796.3	-46.7	78.5	-78.5	0.00	0.00	
4,900.0	4.99	120.76	4,896.0	-51.1	85.9	-85.9	0.00	0.00	
5,000.0	4.99	120.76	4,995.6	-55.6	93.4	-93.4	0.00	0.00	
5,100.0	4.99	120.76	5,095.2	-60.0	100.9	-100.9	0.00	0.00	
5,200.0	4.99	120.76	5,194.8	-64.5	108.4	-108.4	0.00	0.00	
5,300.0	4.99	120.76	5,294.4	-68.9	115.8	-115.8	0.00	0.00	
5,400.0	4.99	120.76	5,394.1	-73.4	123.3	-123.3	0.00	0.00	
5,500.0	4.99	120.76	5,493.7	-77.8	130.8	-130.8	0.00	0.00	
5,600.0	4.99	120.76	5,593.3	-82.3	138.2	-138.2	0.00	0.00	
5,700.0	4.99	120.76	5,692.9	-86.7	145.7	-145.7	0.00	0.00	
5,800.0	4.99	120.76	5,792.6	-91.1	153.2	-153.2	0.00	0.00	
5,900.0	4.99	120.76	5,892.2	-95.6	160.6	-160.6	0.00	0.00	
6,000.0	4.99	120.76	5,991.8	-100.0	168.1	-168.1	0.00	0.00	
6,100.0	4.99	120.76	6,091.4	-104.5	175.6	-175.6	0.00	0.00	
6,200.0	4.99	120.76	6,191.0	-108.9	183.0	-183.0	0.00	0.00	
6,259.2	4.99	120.76	6,250.0	-111.6	187.5	-187.5	0.00	0.00	Teepee Buttes (*if present)
6,300.0	4.99	120.76	6,290.7	-113.4	190.5	-190.5	0.00	0.00	
6,400.0	4.99	120.76	6,390.3	-117.8	198.0	-198.0	0.00	0.00	
6,500.0	4.99	120.76	6,489.9	-122.3	205.4	-205.4	0.00	0.00	
6,600.0	4.99	120.76	6,589.5	-126.7	212.9	-212.9	0.00	0.00	
6,646.5	4.99	120.76	6,635.9	-128.8	216.4	-216.4	0.00	0.00	Start build/turn @ 6646' MD
6,700.0	2.77	202.66	6,689.3	-131.2	217.9	-217.9	10.00	-4.15	
6,800.0	11.35	257.16	6,788.5	-135.6	207.3	-207.3	10.00	8.59	
6,900.0	21.21	263.40	6,884.4	-139.9	179.7	-179.7	10.00	9.86	
6,908.2	22.03	263.67	6,892.0	-140.2	176.7	-176.7	10.00	9.93	Sharon Springs
7,000.0	31.16	265.77	6,974.0	-143.9	135.8	-135.8	10.00	9.95	
7,001.2	31.28	265.79	6,975.0	-143.9	135.2	-135.2	10.00	9.96	Niobrara
7,054.2	36.57	266.55	7,019.0	-145.9	105.7	-105.7	10.00	9.97	B Chalk
7,100.0	41.13	267.07	7,054.6	-147.4	77.0	-77.0	10.00	9.97	
7,100.5	41.18	267.08	7,055.0	-147.5	76.7	-76.7	10.00	9.98	B Marl
7,156.1	46.73	267.59	7,095.0	-149.3	38.2	-38.2	10.00	9.98	C Chalk
7,200.0	51.11	267.94	7,123.9	-150.5	5.1	-5.1	10.00	9.98	
7,206.7	51.78	267.99	7,128.0	-150.7	-0.1	0.1	10.00	9.98	C Marl
7,300.0	61.10	268.59	7,179.6	-153.0	-77.8	77.8	10.00	9.99	
7,400.0	71.09	269.12	7,220.0	-154.8	-169.1	169.1	10.00	9.99	
7,406.2	71.70	269.15	7,222.0	-154.9	-174.9	174.9	10.00	9.99	Ft. Hayes
7,482.1	79.29	269.52	7,241.0	-155.8	-248.3	248.3	10.00	9.99	Codell
7,500.0	81.07	269.60	7,244.1	-155.9	-266.0	266.0	10.00	9.99	
7,589.3	90.00	270.00	7,251.0	-156.2	-355.0	355.0	10.00	9.99	LP @ 7251' TVD; 90°
7,600.0	90.00	270.00	7,251.0	-156.2	-365.6	365.6	0.00	0.00	
7,700.0	90.00	270.00	7,251.0	-156.2	-465.6	465.6	0.00	0.00	
7,800.0	90.00	270.00	7,251.0	-156.2	-565.6	565.6	0.00	0.00	
7,900.0	90.00	270.00	7,251.0	-156.2	-665.6	665.6	0.00	0.00	
8,000.0	90.00	270.00	7,251.0	-156.2	-765.6	765.6	0.00	0.00	
8,100.0	90.00	270.00	7,251.0	-156.2	-865.6	865.6	0.00	0.00	
8,200.0	90.00	270.00	7,251.0	-156.2	-965.6	965.6	0.00	0.00	
8,300.0	90.00	270.00	7,251.0	-156.2	-1,065.6	1,065.6	0.00	0.00	
8,400.0	90.00	270.00	7,251.0	-156.2	-1,165.6	1,165.6	0.00	0.00	
8,500.0	90.00	270.00	7,251.0	-156.2	-1,265.6	1,265.6	0.00	0.00	
8,600.0	90.00	270.00	7,251.0	-156.2	-1,365.6	1,365.6	0.00	0.00	
8,700.0	90.00	270.00	7,251.0	-156.2	-1,465.6	1,465.6	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site:</b>	S28-T3N-R68W (Frederiksen)	<b>North Reference:</b>	True
<b>Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	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	7,251.0	-156.2	-1,565.6	1,565.6	0.00	0.00	
8,900.0	90.00	270.00	7,251.0	-156.2	-1,665.6	1,665.6	0.00	0.00	
9,000.0	90.00	270.00	7,251.0	-156.2	-1,765.6	1,765.6	0.00	0.00	
9,100.0	90.00	270.00	7,251.0	-156.2	-1,865.6	1,865.6	0.00	0.00	
9,200.0	90.00	270.00	7,251.0	-156.2	-1,965.6	1,965.6	0.00	0.00	
9,300.0	90.00	270.00	7,251.0	-156.2	-2,065.6	2,065.6	0.00	0.00	
9,400.0	90.00	270.00	7,251.0	-156.2	-2,165.6	2,165.6	0.00	0.00	
9,500.0	90.00	270.00	7,251.0	-156.2	-2,265.6	2,265.6	0.00	0.00	
9,600.0	90.00	270.00	7,251.0	-156.2	-2,365.6	2,365.6	0.00	0.00	
9,700.0	90.00	270.00	7,251.0	-156.2	-2,465.6	2,465.6	0.00	0.00	
9,800.0	90.00	270.00	7,251.0	-156.2	-2,565.6	2,565.6	0.00	0.00	
9,900.0	90.00	270.00	7,251.0	-156.2	-2,665.6	2,665.6	0.00	0.00	
10,000.0	90.00	270.00	7,251.0	-156.2	-2,765.6	2,765.6	0.00	0.00	
10,100.0	90.00	270.00	7,251.0	-156.2	-2,865.6	2,865.6	0.00	0.00	
10,200.0	90.00	270.00	7,251.0	-156.2	-2,965.6	2,965.6	0.00	0.00	
10,300.0	90.00	270.00	7,251.0	-156.2	-3,065.6	3,065.6	0.00	0.00	
10,400.0	90.00	270.00	7,251.0	-156.2	-3,165.6	3,165.6	0.00	0.00	
10,500.0	90.00	270.00	7,251.0	-156.2	-3,265.6	3,265.6	0.00	0.00	
10,600.0	90.00	270.00	7,251.0	-156.2	-3,365.6	3,365.6	0.00	0.00	
10,700.0	90.00	270.00	7,251.0	-156.2	-3,465.6	3,465.6	0.00	0.00	
10,800.0	90.00	270.00	7,251.0	-156.2	-3,565.6	3,565.6	0.00	0.00	
10,900.0	90.00	270.00	7,251.0	-156.2	-3,665.6	3,665.6	0.00	0.00	
11,000.0	90.00	270.00	7,251.0	-156.2	-3,765.6	3,765.6	0.00	0.00	
11,100.0	90.00	270.00	7,251.0	-156.2	-3,865.6	3,865.6	0.00	0.00	
11,200.0	90.00	270.00	7,251.0	-156.2	-3,965.6	3,965.6	0.00	0.00	
11,300.0	90.00	270.00	7,251.0	-156.2	-4,065.6	4,065.6	0.00	0.00	
11,400.0	90.00	270.00	7,251.0	-156.2	-4,165.6	4,165.6	0.00	0.00	
11,500.0	90.00	270.00	7,251.0	-156.2	-4,265.6	4,265.6	0.00	0.00	
11,600.0	90.00	270.00	7,251.0	-156.2	-4,365.6	4,365.6	0.00	0.00	
11,700.0	90.00	270.00	7,251.0	-156.2	-4,465.6	4,465.6	0.00	0.00	
11,800.0	90.00	270.00	7,251.0	-156.2	-4,565.6	4,565.6	0.00	0.00	
11,815.3	90.00	270.00	7,251.0	-156.2	-4,581.0	4,581.0	0.00	0.00	TD at 11815.3 - Frederiksen 1D-28H-A368 PBI

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Frederiksen 1D-28H-A368 - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	7,251.0	-156.2	-4,581.0	1,316,471.62	3,135,292.29	40.201090	-105.015670

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site:</b>	S28-T3N-R68W (Frederiksen)	<b>North Reference:</b>	True
<b>Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Hz		
<b>Design:</b>	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
255.0	255.0	Fox Hills - BASE				
3,989.6	3,989.0	Sussex				
4,220.5	4,219.0	Sussex Marker				
4,472.4	4,470.0	Shannon				
6,259.2	6,250.0	Teepee Buttes (*if present)				
6,908.2	6,892.0	Sharon Springs				
7,001.2	6,975.0	Niobrara				
7,054.2	7,019.0	B Chalk				
7,100.5	7,055.0	B Marl				
7,156.1	7,095.0	C Chalk				
7,206.7	7,128.0	C Marl				
7,406.2	7,222.0	Ft. Hayes				
7,482.1	7,241.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
3,500.0	3,500.0	0.0	0.0	KOP @ 3500'	
3,998.6	3,997.9	-11.1	18.6	EOB; Inc=5°	
6,646.5	6,635.9	-128.8	216.4	Start build/turn @ 6646' MD	
7,589.3	7,251.0	-156.2	-355.0	LP @ 7251' TVD; 90°	
11,815.3	7,251.0	-156.2	-4,581.0	TD at 11815.3	

# **EnCana Oil & Gas (USA) Inc**

**DJ Wattenberg**

**S28-T3N-R68W (Frederiksen)**

**Frederiksen 1D-28H-A368**

**Hz**

**Plan #1**

## **Anticollision Report**

**17 May, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	5/17/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,815.3	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						
S28-T3N-R68W (Frederiksen)						
FREDERIKSEN #1 (Existing) - DD - GYRO						Out of range
FREDERIKSEN 1A-28H (Existing) - Hz - Hz						Out of range
Frederiksen 1A-28H-A368 - Hz - Plan #1	200.0	200.0	29.1	28.5	44.646	CC, ES
Frederiksen 1A-28H-A368 - Hz - Plan #1	600.0	597.4	42.7	40.6	20.621	SF
Frederiksen 1B-28H-A368 - Hz - Plan #1	300.0	300.0	21.9	20.9	21.817	CC, ES
Frederiksen 1B-28H-A368 - Hz - Plan #1	600.0	598.7	29.2	27.2	14.219	SF
Frederiksen 1B-28H-H368 - Hz - Plan #1						Out of range
Frederiksen 1C-28H-A368 - Hz - Plan #1	400.0	400.0	10.9	9.6	8.090	CC, ES
Frederiksen 1C-28H-A368 - Hz - Plan #1	11,815.3	11,592.8	433.5	231.0	2.141	SF
Frederiksen 1C-28H-H368 - Hz - Plan #1						Out of range
Frederiksen 1E-28H-A368 - Hz - Plan #1	400.0	400.0	10.9	9.6	8.090	CC, ES
Frederiksen 1E-28H-A368 - Hz - Plan #1	11,815.3	11,608.9	411.6	212.6	2.069	SF
Frederiksen 1F-28H-A368 - Hz - Plan #1	200.0	200.0	18.2	17.6	27.904	CC, ES
Frederiksen 1F-28H-A368 - Hz - Plan #1	500.0	498.8	25.8	24.1	15.068	SF
FREDERIKSEN 31-28 (Existing) - DD - GYRO	9,182.5	7,438.6	330.1	265.6	5.117	CC, ES
FREDERIKSEN 31-28 (Existing) - DD - GYRO	9,200.0	7,439.1	330.6	265.7	5.091	SF
FREDERIKSEN 41-28 (Existing) - DD - GYRO	4,486.9	4,604.8	444.6	428.8	28.005	CC
FREDERIKSEN 41-28 (Existing) - DD - GYRO	4,500.0	4,616.1	444.7	428.7	27.896	ES
FREDERIKSEN 41-28 (Existing) - DD - GYRO	5,000.0	5,092.6	485.9	467.7	26.736	SF
FREDERIKSEN 8-4-28 (Existing) - DD - GYRO						Out of range



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1A-28H-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	29.1	0.0	29.1					
100.0	100.0	100.0	100.0	0.2	0.2	0.00	29.1	0.0	29.1	28.8	0.30	95.963		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	29.1	0.0	29.1	28.5	0.65	44.646 CC, ES		
300.0	300.0	299.5	299.5	0.5	0.5	0.45	30.0	0.2	30.0	29.0	1.00	29.938		
400.0	400.0	398.9	398.9	0.7	0.7	1.65	32.5	0.9	32.5	31.1	1.35	24.036		
500.0	500.0	498.3	498.1	0.8	0.9	3.28	36.6	2.1	36.7	35.0	1.71	21.511		
600.0	600.0	597.4	597.1	1.0	1.1	5.01	42.4	3.7	42.7	40.6	2.07	20.621 SF		
700.0	700.0	696.3	695.7	1.2	1.3	6.64	49.8	5.8	50.3	47.9	2.44	20.626		
800.0	800.0	794.9	793.9	1.4	1.5	8.06	58.9	8.3	59.8	56.9	2.82	21.154		
900.0	900.0	893.2	891.5	1.5	1.7	9.25	69.5	11.3	70.9	67.7	3.22	21.996		
1,000.0	1,000.0	991.3	988.8	1.7	2.0	10.22	81.6	14.7	83.7	80.1	3.63	23.033		
1,100.0	1,100.0	1,090.4	1,087.0	1.9	2.3	10.98	94.5	18.3	97.1	93.0	4.05	23.948		
1,200.0	1,200.0	1,189.5	1,185.2	2.1	2.6	11.55	107.3	21.9	110.5	106.0	4.48	24.673		
1,300.0	1,300.0	1,288.6	1,283.4	2.2	2.8	11.99	120.1	25.5	123.9	119.0	4.91	25.260		
1,400.0	1,400.0	1,387.7	1,381.6	2.4	3.1	12.35	132.9	29.1	137.3	132.0	5.33	25.744		
1,500.0	1,500.0	1,486.8	1,479.8	2.6	3.4	12.65	145.8	32.7	150.7	145.0	5.76	26.150		
1,600.0	1,600.0	1,585.9	1,578.0	2.8	3.7	12.90	158.6	36.3	164.2	158.0	6.20	26.494		
1,700.0	1,700.0	1,685.0	1,676.2	2.9	4.0	13.10	171.4	39.9	177.6	171.0	6.63	26.790		
1,800.0	1,800.0	1,784.1	1,774.3	3.1	4.3	13.29	184.2	43.5	191.0	184.0	7.06	27.047		
1,900.0	1,900.0	1,883.1	1,872.5	3.3	4.5	13.44	197.0	47.1	204.5	197.0	7.50	27.272		
2,000.0	2,000.0	1,982.2	1,970.7	3.5	4.8	13.58	209.9	50.7	217.9	209.9	7.93	27.471		
2,100.0	2,100.0	2,081.3	2,068.9	3.6	5.1	13.70	222.7	54.3	231.3	222.9	8.37	27.647		
2,200.0	2,200.0	2,180.4	2,167.1	3.8	5.4	13.81	235.5	57.9	244.7	235.9	8.80	27.805		
2,300.0	2,300.0	2,279.5	2,265.3	4.0	5.7	13.91	248.3	61.5	258.2	248.9	9.24	27.948		
2,400.0	2,400.0	2,378.6	2,363.5	4.2	6.0	13.99	261.2	65.1	271.6	261.9	9.67	28.076		
2,500.0	2,500.0	2,477.7	2,461.7	4.3	6.3	14.07	274.0	68.7	285.0	274.9	10.11	28.193		
2,600.0	2,600.0	2,576.8	2,559.9	4.5	6.6	14.14	286.8	72.3	298.5	287.9	10.55	28.300		
2,700.0	2,700.0	2,675.9	2,658.1	4.7	6.8	14.21	299.6	75.9	311.9	300.9	10.98	28.398		
2,800.0	2,800.0	2,775.0	2,756.3	4.9	7.1	14.27	312.5	79.5	325.4	313.9	11.42	28.488		
2,900.0	2,900.0	2,874.1	2,854.5	5.0	7.4	14.32	325.3	83.1	338.8	326.9	11.86	28.571		
3,000.0	3,000.0	2,973.2	2,952.7	5.2	7.7	14.38	338.1	86.7	352.2	339.9	12.29	28.648		
3,100.0	3,100.0	3,072.3	3,050.9	5.4	8.0	14.42	350.9	90.3	365.7	352.9	12.73	28.720		
3,200.0	3,200.0	3,171.3	3,149.1	5.6	8.3	14.47	363.7	93.9	379.1	365.9	13.17	28.786		
3,300.0	3,300.0	3,270.4	3,247.3	5.7	8.6	14.51	376.6	97.4	392.5	378.9	13.61	28.848		
3,400.0	3,400.0	3,369.5	3,345.4	5.9	8.9	14.55	389.4	101.0	406.0	391.9	14.04	28.906		
3,500.0	3,500.0	3,468.6	3,443.6	6.1	9.2	14.58	402.2	104.6	419.4	404.9	14.48	28.961		
3,600.0	3,600.0	3,567.7	3,541.8	6.3	9.4	-106.12	415.0	108.2	433.1	420.6	12.45	34.793		
3,700.0	3,700.0	3,666.7	3,639.9	6.4	9.7	-106.27	427.8	111.8	447.2	434.5	12.79	34.962		
3,800.0	3,799.9	3,765.5	3,737.8	6.6	10.0	-106.61	440.6	115.4	461.9	448.8	13.14	35.158		
3,900.0	3,899.7	3,864.2	3,835.6	6.8	10.3	-107.12	453.4	119.0	477.1	463.6	13.49	35.377		
4,000.0	3,999.4	3,962.7	3,933.2	7.0	10.6	-107.78	466.1	122.6	492.9	479.1	13.84	35.616		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1B-28H-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	
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	71.972		
200.0	200.0	200.0	200.0	0.3	0.3	0.00	21.9	0.0	21.9	21.2	0.65	33.484		
300.0	300.0	300.0	300.0	0.5	0.5	0.00	21.9	0.0	21.9	20.9	1.00	21.817 CC, ES		
400.0	400.0	399.6	399.6	0.7	0.7	0.87	22.7	0.3	22.7	21.3	1.35	16.778		
500.0	500.0	499.2	499.2	0.8	0.9	3.13	25.0	1.4	25.1	23.4	1.70	14.754		
600.0	600.0	598.7	598.5	1.0	1.0	6.05	29.0	3.1	29.2	27.2	2.05	14.219 SF		
700.0	700.0	698.0	697.6	1.2	1.2	8.98	34.5	5.5	35.1	32.6	2.41	14.525		
800.0	800.0	797.0	796.4	1.4	1.4	11.56	41.6	8.5	42.7	39.9	2.78	15.331		
900.0	900.0	896.5	895.5	1.5	1.7	13.56	49.7	12.0	51.4	48.2	3.16	16.261		
1,000.0	1,000.0	996.1	994.7	1.7	1.9	14.99	57.8	15.5	60.1	56.6	3.54	16.988		
1,100.0	1,100.0	1,095.7	1,093.9	1.9	2.1	16.05	65.9	19.0	68.9	65.0	3.92	17.570		
1,200.0	1,200.0	1,195.4	1,193.2	2.1	2.3	16.87	74.0	22.5	77.7	73.4	4.30	18.044		
1,300.0	1,300.0	1,295.0	1,292.4	2.2	2.6	17.53	82.1	25.9	86.5	81.8	4.69	18.437		
1,400.0	1,400.0	1,394.6	1,391.6	2.4	2.8	18.06	90.2	29.4	95.3	90.2	5.08	18.768		
1,500.0	1,500.0	1,494.2	1,490.8	2.6	3.0	18.50	98.3	32.9	104.1	98.6	5.47	19.050		
1,600.0	1,600.0	1,593.8	1,590.0	2.8	3.2	18.88	106.4	36.4	112.9	107.1	5.85	19.293		
1,700.0	1,700.0	1,693.4	1,689.2	2.9	3.5	19.20	114.5	39.9	121.8	115.5	6.24	19.505		
1,800.0	1,800.0	1,793.0	1,788.5	3.1	3.7	19.48	122.6	43.4	130.6	124.0	6.63	19.691		
1,900.0	1,900.0	1,892.6	1,887.7	3.3	3.9	19.72	130.7	46.9	139.4	132.4	7.02	19.856		
2,000.0	2,000.0	1,992.2	1,986.9	3.5	4.2	19.93	138.9	50.3	148.3	140.9	7.41	20.003		
2,100.0	2,100.0	2,091.8	2,086.1	3.6	4.4	20.12	147.0	53.8	157.1	149.3	7.80	20.134		
2,200.0	2,200.0	2,191.4	2,185.3	3.8	4.6	20.29	155.1	57.3	166.0	157.8	8.19	20.253		
2,300.0	2,300.0	2,291.0	2,284.5	4.0	4.8	20.44	163.2	60.8	174.8	166.2	8.59	20.361		
2,400.0	2,400.0	2,390.6	2,383.8	4.2	5.1	20.58	171.3	64.3	183.6	174.7	8.98	20.459		
2,500.0	2,500.0	2,490.2	2,483.0	4.3	5.3	20.70	179.4	67.8	192.5	183.1	9.37	20.548		
2,600.0	2,600.0	2,589.9	2,582.2	4.5	5.5	20.81	187.5	71.3	201.3	191.6	9.76	20.630		
2,700.0	2,700.0	2,689.5	2,681.4	4.7	5.8	20.92	195.6	74.7	210.2	200.0	10.15	20.706		
2,800.0	2,800.0	2,789.1	2,780.6	4.9	6.0	21.01	203.7	78.2	219.0	208.5	10.54	20.776		
2,900.0	2,900.0	2,888.7	2,879.8	5.0	6.2	21.10	211.8	81.7	227.9	216.9	10.93	20.841		
3,000.0	3,000.0	2,988.3	2,979.1	5.2	6.5	21.18	219.9	85.2	236.7	225.4	11.33	20.901		
3,100.0	3,100.0	3,087.9	3,078.3	5.4	6.7	21.26	228.0	88.7	245.6	233.9	11.72	20.957		
3,200.0	3,200.0	3,187.5	3,177.5	5.6	6.9	21.33	236.1	92.2	254.4	242.3	12.11	21.009		
3,300.0	3,300.0	3,287.1	3,276.7	5.7	7.2	21.40	244.2	95.7	263.3	250.8	12.50	21.058		
3,400.0	3,400.0	3,386.7	3,375.9	5.9	7.4	21.46	252.3	99.2	272.1	259.2	12.89	21.104		
3,500.0	3,500.0	3,486.3	3,475.1	6.1	7.6	21.51	260.4	102.6	281.0	267.7	13.29	21.147		
3,600.0	3,600.0	3,585.9	3,574.3	6.3	7.8	-99.27	268.5	106.1	290.0	277.5	12.49	23.216		
3,700.0	3,700.0	3,685.5	3,673.5	6.4	8.1	-99.62	276.6	109.6	299.3	286.4	12.84	23.309		
3,800.0	3,799.9	3,784.9	3,772.6	6.6	8.3	-100.26	284.7	113.1	308.9	295.7	13.19	23.418		
3,900.0	3,899.7	3,884.3	3,871.5	6.8	8.5	-101.16	292.7	116.6	318.8	305.3	13.54	23.544		
4,000.0	3,999.4	3,983.5	3,970.3	7.0	8.8	-102.29	300.8	120.0	329.3	315.4	13.90	23.688		
4,100.0	4,099.0	4,082.6	4,069.1	7.2	9.0	-103.59	308.9	123.5	340.1	325.8	14.27	23.836		
4,200.0	4,198.6	4,181.7	4,167.8	7.3	9.2	-104.80	316.9	127.0	351.0	336.4	14.64	23.981		
4,300.0	4,298.2	4,280.9	4,266.6	7.5	9.5	-105.94	325.0	130.5	362.1	347.1	15.01	24.123		
4,400.0	4,397.9	4,380.0	4,365.3	7.7	9.7	-107.02	333.1	133.9	373.3	357.9	15.39	24.261		
4,500.0	4,497.5	4,479.1	4,464.0	7.9	9.9	-108.03	341.1	137.4	384.7	368.9	15.77	24.396		
4,600.0	4,597.1	4,578.3	4,562.8	8.1	10.2	-108.98	349.2	140.9	396.1	380.0	16.15	24.528		
4,700.0	4,696.7	4,677.4	4,661.5	8.3	10.4	-109.88	357.3	144.3	407.7	391.2	16.54	24.656		
4,800.0	4,796.3	4,776.5	4,760.3	8.5	10.6	-110.73	365.3	147.8	419.4	402.4	16.92	24.782		
4,900.0	4,896.0	4,875.6	4,859.0	8.7	10.9	-111.54	373.4	151.3	431.1	413.8	17.31	24.903		
5,000.0	4,995.6	4,974.8	4,957.7	8.9	11.1	-112.30	381.4	154.7	442.9	425.2	17.70	25.022		
5,100.0	5,095.2	5,073.9	5,056.5	9.1	11.3	-113.02	389.5	158.2	454.8	436.7	18.09	25.138		

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

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S28-T3N-R68W (Frederiksen) - Frederiksen 1B-28H-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	5,194.8	5,173.0	5,155.2	9.3	11.5	-113.70	397.6	161.7	466.8	448.3	18.49	25.251						
5,300.0	5,294.4	5,272.2	5,254.0	9.5	11.8	-114.36	405.6	165.1	478.8	460.0	18.88	25.361						
5,400.0	5,394.1	5,371.3	5,352.7	9.8	12.0	-114.97	413.7	168.6	490.9	471.6	19.28	25.469						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1C-28H-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	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		
300.0	300.0	300.0	300.0	0.5	0.5	0.00	10.9	0.0	10.9	9.9	1.00	10.909		
400.0	400.0	400.0	400.0	0.7	0.7	0.00	10.9	0.0	10.9	9.6	1.35	8.090 CC, ES		
500.0	500.0	499.9	499.8	0.8	0.9	2.98	11.6	0.6	11.6	9.9	1.70	6.809		
600.0	600.0	599.6	599.6	1.0	1.0	10.14	13.4	2.4	13.7	11.6	2.05	6.666		
700.0	700.0	699.3	699.2	1.2	1.2	18.06	16.6	5.4	17.5	15.1	2.40	7.268		
800.0	800.0	799.2	798.9	1.4	1.4	23.98	20.4	9.1	22.4	19.6	2.76	8.117		
900.0	900.0	899.0	898.6	1.5	1.6	27.75	24.3	12.8	27.5	24.3	3.12	8.815		
1,000.0	1,000.0	998.9	998.3	1.7	1.8	30.33	28.1	16.5	32.6	29.1	3.47	9.387		
1,100.0	1,100.0	1,098.7	1,098.0	1.9	2.0	32.21	32.0	20.1	37.8	34.0	3.84	9.861		
1,200.0	1,200.0	1,198.6	1,197.7	2.1	2.2	33.63	35.8	23.8	43.1	38.9	4.20	10.259		
1,300.0	1,300.0	1,298.4	1,297.5	2.2	2.4	34.74	39.7	27.5	48.3	43.8	4.56	10.596		
1,400.0	1,400.0	1,398.3	1,397.2	2.4	2.6	35.63	43.5	31.2	53.6	48.7	4.92	10.886		
1,500.0	1,500.0	1,498.2	1,496.9	2.6	2.8	36.36	47.4	34.9	58.9	53.6	5.29	11.137		
1,600.0	1,600.0	1,598.0	1,596.6	2.8	2.9	36.97	51.2	38.6	64.2	58.5	5.65	11.356		
1,700.0	1,700.0	1,697.9	1,696.3	2.9	3.1	37.49	55.1	42.2	69.5	63.5	6.02	11.549		
1,800.0	1,800.0	1,797.7	1,796.0	3.1	3.3	37.94	58.9	45.9	74.8	68.4	6.38	11.721		
1,900.0	1,900.0	1,897.6	1,895.7	3.3	3.5	38.32	62.8	49.6	80.1	73.4	6.75	11.874		
2,000.0	2,000.0	1,997.4	1,995.5	3.5	3.7	38.66	66.6	53.3	85.4	78.3	7.11	12.012		
2,100.0	2,100.0	2,097.3	2,095.2	3.6	3.9	38.96	70.4	57.0	90.7	83.3	7.48	12.136		
2,200.0	2,200.0	2,197.2	2,194.9	3.8	4.1	39.23	74.3	60.6	96.0	88.2	7.84	12.249		
2,300.0	2,300.0	2,297.0	2,294.6	4.0	4.3	39.46	78.1	64.3	101.4	93.2	8.21	12.352		
2,400.0	2,400.0	2,396.9	2,394.3	4.2	4.5	39.68	82.0	68.0	106.7	98.1	8.57	12.446		
2,500.0	2,500.0	2,496.7	2,494.0	4.3	4.7	39.87	85.8	71.7	112.0	103.1	8.94	12.533		
2,600.0	2,600.0	2,596.6	2,593.8	4.5	4.9	40.05	89.7	75.4	117.3	108.0	9.30	12.612		
2,700.0	2,700.0	2,696.4	2,693.5	4.7	5.1	40.21	93.5	79.1	122.6	113.0	9.67	12.686		
2,800.0	2,800.0	2,796.3	2,793.2	4.9	5.3	40.36	97.4	82.7	128.0	117.9	10.03	12.755		
2,900.0	2,900.0	2,896.2	2,892.9	5.0	5.5	40.49	101.2	86.4	133.3	122.9	10.40	12.818		
3,000.0	3,000.0	2,996.0	2,992.6	5.2	5.7	40.62	105.1	90.1	138.6	127.9	10.76	12.878		
3,100.0	3,100.0	3,095.9	3,092.3	5.4	5.9	40.73	108.9	93.8	144.0	132.8	11.13	12.933		
3,200.0	3,200.0	3,195.7	3,192.0	5.6	6.1	40.84	112.8	97.5	149.3	137.8	11.50	12.985		
3,300.0	3,300.0	3,295.6	3,291.8	5.7	6.3	40.94	116.6	101.2	154.6	142.7	11.86	13.034		
3,400.0	3,400.0	3,395.5	3,391.5	5.9	6.5	41.03	120.5	104.8	159.9	147.7	12.23	13.079		
3,500.0	3,500.0	3,495.3	3,491.2	6.1	6.7	41.12	124.3	108.5	165.3	152.7	12.59	13.123		
3,600.0	3,600.0	3,595.2	3,590.9	6.3	6.9	-79.79	128.2	112.2	170.4	157.9	12.51	13.622		
3,700.0	3,700.0	3,695.0	3,690.6	6.4	7.1	-80.50	132.0	115.9	175.3	162.5	12.86	13.630		
3,800.0	3,799.9	3,794.8	3,790.3	6.6	7.3	-81.72	135.9	119.6	180.0	166.8	13.22	13.618		
3,900.0	3,899.7	3,894.6	3,889.9	6.8	7.5	-83.41	139.7	123.3	184.5	170.9	13.57	13.593		
4,000.0	3,999.4	3,994.2	3,989.4	7.0	7.7	-85.54	143.5	126.9	189.0	175.1	13.94	13.564		
4,100.0	4,099.0	4,093.8	4,088.8	7.2	7.9	-87.86	147.4	130.6	193.8	179.5	14.31	13.547		
4,200.0	4,198.6	4,193.4	4,188.3	7.3	8.1	-90.06	151.2	134.3	198.9	184.2	14.68	13.547		
4,300.0	4,298.2	4,293.0	4,287.7	7.5	8.3	-92.16	155.1	138.0	204.3	189.2	15.06	13.562		
4,400.0	4,397.9	4,392.6	4,387.2	7.7	8.5	-94.14	158.9	141.6	209.9	194.4	15.44	13.590		
4,500.0	4,497.5	4,492.1	4,486.6	7.9	8.7	-96.02	162.7	145.3	215.7	199.9	15.83	13.628		
4,600.0	4,597.1	4,591.7	4,586.1	8.1	8.9	-97.80	166.6	149.0	221.8	205.6	16.22	13.676		
4,700.0	4,696.7	4,691.3	4,685.5	8.3	9.1	-99.48	170.4	152.6	228.1	211.5	16.61	13.732		
4,800.0	4,796.3	4,790.9	4,784.9	8.5	9.2	-101.07	174.2	156.3	234.5	217.5	17.00	13.794		
4,900.0	4,896.0	4,890.5	4,884.4	8.7	9.4	-102.58	178.1	160.0	241.2	223.8	17.40	13.863		
5,000.0	4,995.6	4,990.1	4,983.8	8.9	9.6	-104.00	181.9	163.7	248.0	230.2	17.79	13.936		
5,100.0	5,095.2	5,089.7	5,083.3	9.1	9.8	-105.35	185.8	167.3	254.9	236.7	18.19	14.013		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1C-28H-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	5,194.8	5,189.2	5,182.7	9.3	10.0	-106.62	189.6	171.0	262.0	243.4	18.59	14.093		
5,300.0	5,294.4	5,288.8	5,282.1	9.5	10.2	-107.83	193.4	174.7	269.2	250.2	18.99	14.176		
5,400.0	5,394.1	5,388.4	5,381.6	9.8	10.4	-108.98	197.3	178.4	276.5	257.1	19.39	14.261		
5,500.0	5,493.7	5,488.0	5,481.0	10.0	10.6	-110.06	201.1	182.0	283.9	264.1	19.79	14.348		
5,600.0	5,593.3	5,587.6	5,580.5	10.2	10.8	-111.09	204.9	185.7	291.4	271.2	20.19	14.436		
5,700.0	5,692.9	5,687.2	5,679.9	10.4	11.0	-112.07	208.8	189.4	299.0	278.4	20.59	14.524		
5,800.0	5,792.6	5,786.7	5,779.4	10.6	11.2	-113.00	212.6	193.1	306.7	285.7	20.98	14.613		
5,900.0	5,892.2	5,886.3	5,878.8	10.8	11.4	-113.88	216.5	196.7	314.4	293.0	21.38	14.703		
6,000.0	5,991.8	5,985.9	5,978.2	11.0	11.6	-114.73	220.3	200.4	322.2	300.5	21.78	14.792		
6,100.0	6,091.4	6,085.5	6,077.7	11.2	11.8	-115.53	224.1	204.1	330.1	308.0	22.18	14.882		
6,200.0	6,191.0	6,185.1	6,177.1	11.4	12.0	-116.29	228.0	207.7	338.1	315.5	22.58	14.971		
6,300.0	6,290.7	6,284.7	6,276.6	11.7	12.2	-117.02	231.8	211.4	346.1	323.1	22.98	15.059		
6,400.0	6,390.3	6,384.2	6,376.0	11.9	12.4	-117.72	235.7	215.1	354.2	330.8	23.38	15.147		
6,500.0	6,489.9	6,484.8	6,476.5	12.1	12.6	-118.57	239.5	217.6	362.2	338.5	23.77	15.241		
6,600.0	6,589.5	6,583.9	6,574.7	12.3	12.7	-121.48	243.2	206.5	370.2	346.1	24.08	15.373		
6,700.0	6,689.3	6,675.2	6,662.3	12.5	12.7	151.69	246.3	181.4	380.2	355.9	24.31	15.639		
6,800.0	6,788.5	6,761.8	6,740.7	12.6	12.7	92.18	249.0	145.0	392.5	368.1	24.41	16.080		
6,900.0	6,884.4	6,845.0	6,810.2	12.6	12.7	81.50	251.3	99.2	406.1	381.7	24.42	16.630		
7,000.0	6,974.0	6,925.6	6,870.4	12.6	12.8	75.33	253.1	45.8	420.0	395.6	24.40	17.211		
7,100.0	7,054.6	7,000.0	6,918.8	12.7	12.9	71.00	254.5	-10.6	433.2	408.7	24.46	17.710		
7,200.0	7,123.9	7,081.1	6,962.8	12.8	13.3	67.58	255.5	-78.6	444.8	420.0	24.77	17.958		
7,300.0	7,179.6	7,156.8	6,994.9	13.4	13.9	65.14	256.2	-147.2	454.3	428.8	25.45	17.851		
7,400.0	7,220.0	7,231.7	7,017.5	14.3	14.8	63.47	256.4	-218.5	461.1	434.4	26.67	17.290		
7,500.0	7,244.1	7,300.0	7,029.8	15.6	15.8	62.54	256.3	-285.6	465.0	436.6	28.40	16.376		
7,600.0	7,251.0	7,383.8	7,034.0	17.1	17.1	62.22	255.7	-369.2	465.6	434.7	30.89	15.073		
7,700.0	7,251.0	7,483.8	7,034.0	18.9	18.9	62.17	254.9	-469.2	464.8	430.8	34.01	13.669		
7,800.0	7,251.0	7,583.8	7,034.0	20.8	20.8	62.12	254.0	-569.2	464.1	426.7	37.37	12.419		
7,900.0	7,251.0	7,683.7	7,034.0	22.8	22.8	62.07	253.1	-669.2	463.3	422.4	40.91	11.324		
8,000.0	7,251.0	7,783.7	7,034.0	24.9	24.9	62.02	252.2	-769.2	462.5	417.9	44.60	10.370		
8,100.0	7,251.0	7,883.7	7,034.0	27.0	27.1	61.97	251.4	-869.2	461.8	413.4	48.40	9.541		
8,200.0	7,251.0	7,983.7	7,034.0	29.2	29.3	61.92	250.5	-969.2	461.0	408.7	52.28	8.818		
8,300.0	7,251.0	8,083.7	7,034.0	31.5	31.6	61.87	249.6	-1,069.2	460.2	404.0	56.23	8.185		
8,400.0	7,251.0	8,183.7	7,034.0	33.8	33.8	61.82	248.8	-1,169.2	459.5	399.2	60.22	7.629		
8,500.0	7,251.0	8,283.7	7,034.0	36.1	36.2	61.76	247.9	-1,269.2	458.7	394.4	64.26	7.138		
8,600.0	7,251.0	8,383.7	7,034.0	38.4	38.5	61.71	247.0	-1,369.2	457.9	389.6	68.33	6.701		
8,700.0	7,251.0	8,483.7	7,034.0	40.7	40.8	61.66	246.1	-1,469.2	457.1	384.7	72.43	6.312		
8,800.0	7,251.0	8,583.7	7,034.0	43.1	43.2	61.61	245.3	-1,569.1	456.4	379.8	76.55	5.962		
8,900.0	7,251.0	8,683.7	7,034.0	45.5	45.6	61.56	244.4	-1,669.1	455.6	374.9	80.68	5.647		
9,000.0	7,251.0	8,783.7	7,034.0	47.9	48.0	61.50	243.5	-1,769.1	454.8	370.0	84.83	5.362		
9,100.0	7,251.0	8,883.7	7,034.0	50.2	50.3	61.45	242.6	-1,869.1	454.1	365.1	89.00	5.102		
9,200.0	7,251.0	8,983.7	7,034.0	52.6	52.7	61.40	241.8	-1,969.1	453.3	360.1	93.17	4.866		
9,300.0	7,251.0	9,083.7	7,034.0	55.0	55.1	61.35	240.9	-2,069.1	452.5	355.2	97.35	4.649		
9,400.0	7,251.0	9,183.7	7,034.0	57.5	57.6	61.29	240.0	-2,169.1	451.8	350.2	101.53	4.450		
9,500.0	7,251.0	9,283.7	7,034.0	59.9	60.0	61.24	239.2	-2,269.1	451.0	345.3	105.72	4.266		
9,600.0	7,251.0	9,383.7	7,034.0	62.3	62.4	61.19	238.3	-2,369.1	450.2	340.3	109.91	4.096		
9,700.0	7,251.0	9,483.7	7,034.0	64.7	64.8	61.13	237.4	-2,469.1	449.5	335.4	114.11	3.939		
9,800.0	7,251.0	9,583.7	7,034.0	67.1	67.3	61.08	236.5	-2,569.1	448.7	330.4	118.31	3.793		
9,900.0	7,251.0	9,683.7	7,034.0	69.6	69.7	61.02	235.7	-2,669.1	448.0	325.5	122.50	3.657		
10,000.0	7,251.0	9,783.7	7,034.0	72.0	72.1	60.97	234.8	-2,769.1	447.2	320.5	126.70	3.529		
10,100.0	7,251.0	9,883.7	7,034.0	74.4	74.6	60.92	233.9	-2,869.0	446.4	315.5	130.90	3.410		
10,200.0	7,251.0	9,983.7	7,034.0	76.9	77.0	60.86	233.0	-2,969.0	445.7	310.6	135.10	3.299		
10,300.0	7,251.0	10,083.7	7,034.0	79.3	79.4	60.81	232.2	-3,069.0	444.9	305.6	139.30	3.194		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1C-28H-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		
10,400.0	7,251.0	10,183.7	7,034.0	81.8	81.9	60.75	231.3	-3,169.0	444.1	300.7	143.49	3.095		
10,500.0	7,251.0	10,283.6	7,034.0	84.2	84.3	60.70	230.4	-3,269.0	443.4	295.7	147.68	3.002		
10,600.0	7,251.0	10,383.6	7,034.0	86.7	86.8	60.64	229.6	-3,369.0	442.6	290.7	151.88	2.914		
10,700.0	7,251.0	10,483.6	7,034.0	89.1	89.2	60.59	228.7	-3,469.0	441.9	285.8	156.07	2.831		
10,800.0	7,251.0	10,583.6	7,034.0	91.6	91.7	60.53	227.8	-3,569.0	441.1	280.8	160.25	2.753		
10,900.0	7,251.0	10,683.6	7,034.0	94.0	94.1	60.47	226.9	-3,669.0	440.3	275.9	164.44	2.678		
11,000.0	7,251.0	10,783.6	7,034.0	96.5	96.6	60.42	226.1	-3,769.0	439.6	271.0	168.62	2.607		
11,100.0	7,251.0	10,883.6	7,034.0	98.9	99.0	60.36	225.2	-3,869.0	438.8	266.0	172.79	2.540		
11,200.0	7,251.0	10,983.6	7,034.0	101.4	101.5	60.31	224.3	-3,969.0	438.1	261.1	176.97	2.475		
11,300.0	7,251.0	11,083.6	7,034.0	103.8	103.9	60.25	223.4	-4,069.0	437.3	256.2	181.14	2.414		
11,400.0	7,251.0	11,183.6	7,034.0	106.3	106.4	60.19	222.6	-4,168.9	436.6	251.2	185.31	2.356		
11,500.0	7,251.0	11,283.6	7,034.0	108.7	108.9	60.14	221.7	-4,268.9	435.8	246.3	189.47	2.300		
11,600.0	7,251.0	11,383.6	7,034.0	111.2	111.3	60.08	220.8	-4,368.9	435.0	241.4	193.63	2.247		
11,700.0	7,251.0	11,483.6	7,034.0	113.7	113.8	60.02	220.0	-4,468.9	434.3	236.5	197.78	2.196		
11,800.0	7,251.0	11,583.6	7,034.0	116.1	116.2	59.96	219.1	-4,568.9	433.5	231.6	201.93	2.147		
11,812.4	7,251.0	11,592.8	7,034.0	116.4	116.5	59.96	219.0	-4,578.1	433.4	231.1	202.38	2.142		
11,815.3	7,251.0	11,592.8	7,034.0	116.5	116.5	59.96	219.0	-4,578.1	433.5	231.0	202.45	2.141 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1E-28H-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	0.0	0.0	0.0	0.0	-180.00	-10.9	0.0	10.9					
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-10.9	0.0	10.9	10.6	0.30	35.986		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-10.9	0.0	10.9	10.3	0.65	16.742		
300.0	300.0	300.0	300.0	0.5	0.5	-180.00	-10.9	0.0	10.9	9.9	1.00	10.909		
400.0	400.0	400.0	400.0	0.7	0.7	-180.00	-10.9	0.0	10.9	9.6	1.35	8.090 CC, ES		
500.0	500.0	499.8	499.8	0.8	0.9	178.15	-11.7	0.4	11.7	10.0	1.70	6.893		
600.0	600.0	599.6	599.5	1.0	1.0	173.87	-14.1	1.5	14.1	12.1	2.05	6.894		
700.0	700.0	699.2	699.1	1.2	1.2	169.31	-18.0	3.4	18.3	15.9	2.41	7.597		
800.0	800.0	798.7	798.3	1.4	1.4	165.58	-23.4	6.0	24.2	21.5	2.77	8.736		
900.0	900.0	897.9	897.3	1.5	1.6	162.84	-30.4	9.4	31.9	28.8	3.15	10.144		
1,000.0	1,000.0	997.6	996.6	1.7	1.8	161.03	-38.1	13.1	40.4	36.9	3.53	11.465		
1,100.0	1,100.0	1,097.2	1,095.8	1.9	2.0	159.84	-45.8	16.8	49.0	45.0	3.91	12.528		
1,200.0	1,200.0	1,196.8	1,195.1	2.1	2.3	159.01	-53.5	20.5	57.5	53.2	4.29	13.400		
1,300.0	1,300.0	1,296.4	1,294.4	2.2	2.5	158.40	-61.2	24.2	66.0	61.4	4.67	14.127		
1,400.0	1,400.0	1,396.1	1,393.6	2.4	2.7	157.92	-68.9	27.9	74.6	69.5	5.06	14.742		
1,500.0	1,500.0	1,495.7	1,492.9	2.6	2.9	157.54	-76.6	31.6	83.1	77.7	5.45	15.268		
1,600.0	1,600.0	1,595.3	1,592.2	2.8	3.1	157.24	-84.2	35.3	91.7	85.9	5.83	15.724		
1,700.0	1,700.0	1,695.0	1,691.4	2.9	3.4	156.98	-91.9	39.1	100.3	94.0	6.22	16.122		
1,800.0	1,800.0	1,794.6	1,790.7	3.1	3.6	156.77	-99.6	42.8	108.8	102.2	6.61	16.472		
1,900.0	1,900.0	1,894.2	1,889.9	3.3	3.8	156.59	-107.3	46.5	117.4	110.4	6.99	16.783		
2,000.0	2,000.0	1,993.9	1,989.2	3.5	4.0	156.43	-115.0	50.2	125.9	118.6	7.38	17.060		
2,100.0	2,100.0	2,093.5	2,088.5	3.6	4.3	156.29	-122.7	53.9	134.5	126.7	7.77	17.310		
2,200.0	2,200.0	2,193.1	2,187.7	3.8	4.5	156.17	-130.4	57.6	143.1	134.9	8.16	17.535		
2,300.0	2,300.0	2,292.8	2,287.0	4.0	4.7	156.06	-138.1	61.3	151.6	143.1	8.55	17.740		
2,400.0	2,400.0	2,392.4	2,386.3	4.2	4.9	155.96	-145.8	65.0	160.2	151.3	8.94	17.926		
2,500.0	2,500.0	2,492.0	2,485.5	4.3	5.2	155.88	-153.5	68.7	168.8	159.5	9.33	18.097		
2,600.0	2,600.0	2,591.7	2,584.8	4.5	5.4	155.80	-161.2	72.4	177.3	167.6	9.72	18.254		
2,700.0	2,700.0	2,691.3	2,684.1	4.7	5.6	155.73	-168.9	76.1	185.9	175.8	10.10	18.399		
2,800.0	2,800.0	2,790.9	2,783.3	4.9	5.9	155.66	-176.5	79.8	194.5	184.0	10.49	18.533		
2,900.0	2,900.0	2,890.6	2,882.6	5.0	6.1	155.60	-184.2	83.6	203.0	192.2	10.88	18.657		
3,000.0	3,000.0	2,990.2	2,981.9	5.2	6.3	155.55	-191.9	87.3	211.6	200.3	11.27	18.772		
3,100.0	3,100.0	3,089.8	3,081.1	5.4	6.5	155.50	-199.6	91.0	220.2	208.5	11.66	18.880		
3,200.0	3,200.0	3,189.5	3,180.4	5.6	6.8	155.45	-207.3	94.7	228.8	216.7	12.05	18.980		
3,300.0	3,300.0	3,289.1	3,279.7	5.7	7.0	155.41	-215.0	98.4	237.3	224.9	12.44	19.074		
3,400.0	3,400.0	3,388.7	3,378.9	5.9	7.2	155.37	-222.7	102.1	245.9	233.1	12.83	19.163		
3,500.0	3,500.0	3,488.4	3,478.2	6.1	7.5	155.33	-230.4	105.8	254.5	241.2	13.22	19.246		
3,600.0	3,600.0	3,588.0	3,577.5	6.3	7.7	34.60	-238.1	109.5	262.3	249.8	12.50	20.989		
3,700.0	3,700.0	3,687.8	3,676.9	6.4	7.9	34.85	-245.8	113.2	268.7	255.9	12.85	20.916		
3,800.0	3,799.9	3,787.7	3,776.4	6.6	8.1	35.30	-253.5	117.0	273.7	260.5	13.20	20.740		
3,900.0	3,899.7	3,887.6	3,875.9	6.8	8.4	35.95	-261.2	120.7	277.4	263.8	13.55	20.470		
4,000.0	3,999.4	3,987.4	3,975.4	7.0	8.6	36.80	-268.9	124.4	279.6	265.7	13.90	20.113		
4,100.0	4,099.0	4,087.3	4,075.0	7.2	8.8	37.76	-276.6	128.1	281.3	267.0	14.26	19.723		
4,200.0	4,198.6	4,187.2	4,174.5	7.3	9.1	38.71	-284.3	131.8	283.0	268.4	14.62	19.354		
4,300.0	4,298.2	4,287.1	4,274.0	7.5	9.3	39.64	-292.1	135.5	284.8	269.8	14.99	19.004		
4,400.0	4,397.9	4,386.9	4,373.5	7.7	9.5	40.57	-299.8	139.3	286.6	271.3	15.35	18.672		
4,500.0	4,497.5	4,486.8	4,473.0	7.9	9.7	41.48	-307.5	143.0	288.6	272.9	15.72	18.357		
4,600.0	4,597.1	4,586.7	4,572.5	8.1	10.0	42.38	-315.2	146.7	290.6	274.5	16.09	18.057		
4,700.0	4,696.7	4,686.6	4,672.0	8.3	10.2	43.26	-322.9	150.4	292.7	276.2	16.47	17.773		
4,800.0	4,796.3	4,786.4	4,771.5	8.5	10.4	44.14	-330.6	154.1	294.9	278.0	16.85	17.502		
4,900.0	4,896.0	4,886.3	4,871.0	8.7	10.7	45.00	-338.3	157.8	297.1	279.9	17.23	17.244		
5,000.0	4,995.6	4,986.2	4,970.5	8.9	10.9	45.85	-346.0	161.6	299.4	281.8	17.61	16.997		
5,100.0	5,095.2	5,086.1	5,070.0	9.1	11.1	46.68	-353.7	165.3	301.7	283.7	18.00	16.763		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1E-28H-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	5,194.8	5,186.0	5,169.5	9.3	11.3	47.50	-361.5	169.0	304.2	285.8	18.39	16.539		
5,300.0	5,294.4	5,285.8	5,269.1	9.5	11.6	48.31	-369.2	172.7	306.6	287.8	18.78	16.325		
5,400.0	5,394.1	5,385.7	5,368.6	9.8	11.8	49.11	-376.9	176.4	309.2	290.0	19.18	16.120		
5,500.0	5,493.7	5,485.6	5,468.1	10.0	12.0	49.89	-384.6	180.1	311.8	292.2	19.58	15.924		
5,600.0	5,593.3	5,585.5	5,567.6	10.2	12.3	50.66	-392.3	183.9	314.4	294.5	19.98	15.737		
5,700.0	5,692.9	5,685.3	5,667.1	10.4	12.5	51.41	-400.0	187.6	317.1	296.8	20.38	15.558		
5,800.0	5,792.6	5,785.2	5,766.6	10.6	12.7	52.16	-407.7	191.3	319.9	299.1	20.79	15.387		
5,900.0	5,892.2	5,885.1	5,866.1	10.8	13.0	52.89	-415.4	195.0	322.7	301.5	21.20	15.223		
6,000.0	5,991.8	5,985.0	5,965.6	11.0	13.2	53.60	-423.1	198.7	325.6	304.0	21.61	15.066		
6,100.0	6,091.4	6,084.8	6,065.1	11.2	13.4	54.31	-430.8	202.5	328.5	306.5	22.03	14.915		
6,200.0	6,191.0	6,184.7	6,164.6	11.4	13.6	55.00	-438.6	206.2	331.5	309.1	22.44	14.770		
6,300.0	6,290.7	6,284.6	6,264.1	11.7	13.9	55.68	-446.3	209.9	334.5	311.7	22.86	14.632		
6,400.0	6,390.3	6,384.5	6,363.7	11.9	14.1	56.35	-454.0	213.6	337.6	314.3	23.28	14.499		
6,500.0	6,489.9	6,484.8	6,463.6	12.1	14.3	57.08	-461.7	216.9	340.7	317.0	23.70	14.372		
6,600.0	6,589.5	6,584.1	6,562.1	12.3	14.5	59.78	-469.4	208.2	343.8	319.6	24.15	14.233		
6,700.0	6,689.3	6,676.3	6,651.0	12.5	14.6	-17.13	-476.2	184.9	348.8	324.2	24.61	14.172		
6,800.0	6,788.5	6,763.9	6,730.9	12.6	14.6	-66.45	-482.4	149.8	356.3	331.4	24.88	14.322		
6,900.0	6,884.4	6,850.0	6,803.4	12.6	14.7	-67.92	-488.1	103.9	365.4	340.5	24.91	14.669		
7,000.0	6,974.0	6,930.0	6,863.9	12.6	14.8	-66.22	-492.7	51.9	375.3	350.6	24.76	15.161		
7,100.0	7,054.6	7,009.6	6,916.4	12.7	14.9	-63.98	-496.8	-7.8	385.2	360.6	24.56	15.680		
7,200.0	7,123.9	7,087.7	6,959.3	12.8	15.2	-61.93	-500.1	-72.8	394.2	369.6	24.51	16.080		
7,300.0	7,179.6	7,164.5	6,992.6	13.4	15.6	-60.26	-502.7	-142.0	401.7	376.8	24.88	16.147		
7,400.0	7,220.0	7,240.5	7,016.2	14.3	16.2	-59.06	-504.5	-214.1	407.3	381.4	25.89	15.730		
7,500.0	7,244.1	7,315.9	7,030.0	15.6	17.1	-58.37	-505.6	-288.2	410.6	382.9	27.69	14.830		
7,600.0	7,251.0	7,393.5	7,034.0	17.1	18.1	-58.18	-505.9	-365.6	411.6	381.3	30.22	13.618		
7,700.0	7,251.0	7,493.5	7,034.0	18.9	19.8	-58.18	-505.9	-465.6	411.6	378.4	33.19	12.402		
7,800.0	7,251.0	7,593.5	7,034.0	20.8	21.6	-58.18	-505.9	-565.6	411.6	375.2	36.39	11.309		
7,900.0	7,251.0	7,693.5	7,034.0	22.8	23.5	-58.18	-505.9	-665.6	411.6	371.8	39.79	10.344		
8,000.0	7,251.0	7,793.5	7,034.0	24.9	25.5	-58.18	-505.9	-765.6	411.6	368.2	43.33	9.499		
8,100.0	7,251.0	7,893.5	7,034.0	27.0	27.6	-58.18	-505.9	-865.6	411.6	364.6	46.98	8.761		
8,200.0	7,251.0	7,993.5	7,034.0	29.2	29.8	-58.18	-505.9	-965.6	411.6	360.9	50.71	8.116		
8,300.0	7,251.0	8,093.5	7,034.0	31.5	32.0	-58.18	-505.9	-1,065.6	411.6	357.1	54.52	7.549		
8,400.0	7,251.0	8,193.5	7,034.0	33.8	34.3	-58.18	-505.9	-1,165.6	411.6	353.2	58.38	7.050		
8,500.0	7,251.0	8,293.5	7,034.0	36.1	36.5	-58.18	-505.9	-1,265.6	411.6	349.3	62.28	6.608		
8,600.0	7,251.0	8,393.5	7,034.0	38.4	38.8	-58.18	-505.9	-1,365.6	411.6	345.3	66.23	6.214		
8,700.0	7,251.0	8,493.5	7,034.0	40.7	41.2	-58.18	-505.9	-1,465.6	411.6	341.4	70.20	5.863		
8,800.0	7,251.0	8,593.5	7,034.0	43.1	43.5	-58.18	-505.9	-1,565.6	411.6	337.4	74.20	5.546		
8,900.0	7,251.0	8,693.5	7,034.0	45.5	45.9	-58.18	-505.9	-1,665.6	411.6	333.3	78.23	5.261		
9,000.0	7,251.0	8,793.5	7,034.0	47.9	48.2	-58.18	-505.9	-1,765.6	411.6	329.3	82.27	5.003		
9,100.0	7,251.0	8,893.5	7,034.0	50.2	50.6	-58.18	-505.9	-1,865.6	411.6	325.2	86.32	4.768		
9,200.0	7,251.0	8,993.5	7,034.0	52.6	53.0	-58.18	-505.9	-1,965.6	411.6	321.2	90.40	4.553		
9,300.0	7,251.0	9,093.5	7,034.0	55.0	55.4	-58.18	-505.9	-2,065.6	411.6	317.1	94.48	4.356		
9,400.0	7,251.0	9,193.5	7,034.0	57.5	57.8	-58.18	-505.9	-2,165.6	411.6	313.0	98.57	4.175		
9,500.0	7,251.0	9,293.5	7,034.0	59.9	60.2	-58.18	-505.9	-2,265.6	411.6	308.9	102.68	4.008		
9,600.0	7,251.0	9,393.5	7,034.0	62.3	62.6	-58.18	-505.9	-2,365.6	411.6	304.8	106.79	3.854		
9,700.0	7,251.0	9,493.5	7,034.0	64.7	65.0	-58.18	-505.9	-2,465.6	411.6	300.7	110.91	3.711		
9,800.0	7,251.0	9,593.5	7,034.0	67.1	67.4	-58.18	-505.9	-2,565.6	411.6	296.5	115.03	3.578		
9,900.0	7,251.0	9,693.5	7,034.0	69.6	69.9	-58.18	-505.9	-2,665.6	411.6	292.4	119.17	3.454		
10,000.0	7,251.0	9,793.5	7,034.0	72.0	72.3	-58.18	-505.9	-2,765.6	411.6	288.3	123.30	3.338		
10,100.0	7,251.0	9,893.5	7,034.0	74.4	74.7	-58.18	-505.9	-2,865.6	411.6	284.1	127.45	3.229		
10,200.0	7,251.0	9,993.5	7,034.0	76.9	77.1	-58.18	-505.9	-2,965.6	411.6	280.0	131.59	3.128		
10,300.0	7,251.0	10,093.5	7,034.0	79.3	79.6	-58.18	-505.9	-3,065.6	411.6	275.8	135.74	3.032		

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



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1E-28H-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		
10,400.0	7,251.0	10,193.5	7,034.0	81.8	82.0	-58.18	-505.9	-3,165.6	411.6	271.7	139.90	2.942		
10,500.0	7,251.0	10,293.5	7,034.0	84.2	84.5	-58.18	-505.9	-3,265.6	411.6	267.5	144.05	2.857		
10,600.0	7,251.0	10,393.5	7,034.0	86.7	86.9	-58.18	-505.9	-3,365.6	411.6	263.4	148.21	2.777		
10,700.0	7,251.0	10,493.5	7,034.0	89.1	89.3	-58.18	-505.9	-3,465.6	411.6	259.2	152.37	2.701		
10,800.0	7,251.0	10,593.5	7,034.0	91.6	91.8	-58.18	-505.9	-3,565.6	411.6	255.0	156.54	2.629		
10,900.0	7,251.0	10,693.5	7,034.0	94.0	94.2	-58.18	-505.9	-3,665.6	411.6	250.9	160.71	2.561		
11,000.0	7,251.0	10,793.5	7,034.0	96.5	96.7	-58.18	-505.9	-3,765.6	411.6	246.7	164.88	2.496		
11,100.0	7,251.0	10,893.5	7,034.0	98.9	99.1	-58.18	-505.9	-3,865.6	411.6	242.5	169.05	2.435		
11,200.0	7,251.0	10,993.5	7,034.0	101.4	101.6	-58.18	-505.9	-3,965.6	411.6	238.3	173.22	2.376		
11,300.0	7,251.0	11,093.5	7,034.0	103.8	104.0	-58.18	-505.9	-4,065.6	411.6	234.2	177.40	2.320		
11,400.0	7,251.0	11,193.5	7,034.0	106.3	106.5	-58.18	-505.9	-4,165.6	411.6	230.0	181.58	2.267		
11,500.0	7,251.0	11,293.5	7,034.0	108.7	108.9	-58.18	-505.9	-4,265.6	411.6	225.8	185.75	2.216		
11,600.0	7,251.0	11,393.5	7,034.0	111.2	111.4	-58.18	-505.9	-4,365.6	411.6	221.6	189.93	2.167		
11,700.0	7,251.0	11,493.5	7,034.0	113.7	113.9	-58.18	-505.9	-4,465.6	411.6	217.5	194.11	2.120		
11,800.0	7,251.0	11,593.5	7,034.0	116.1	116.3	-58.18	-505.9	-4,565.6	411.6	213.3	198.30	2.076		
11,815.3	7,251.0	11,608.9	7,034.0	116.5	116.7	-58.18	-505.9	-4,581.0	411.6	212.6	198.94	2.069 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - Frederiksen 1F-28H-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	-18.2	0.0	18.2					
100.0	100.0	100.0	100.0	0.2	0.2	-180.00	-18.2	0.0	18.2	17.9	0.30	59.977		
200.0	200.0	200.0	200.0	0.3	0.3	-180.00	-18.2	0.0	18.2	17.6	0.65	27.904 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	179.30	-19.0	0.2	19.1	18.1	1.00	19.014		
400.0	400.0	399.3	399.3	0.7	0.7	177.54	-21.6	0.9	21.6	20.2	1.36	15.929		
500.0	500.0	498.8	498.7	0.8	0.9	175.38	-25.7	2.1	25.8	24.1	1.71	15.068 SF		
600.0	600.0	598.1	597.8	1.0	1.1	173.33	-31.5	3.7	31.8	29.7	2.08	15.277		
700.0	700.0	697.2	696.6	1.2	1.3	171.61	-39.0	5.8	39.6	37.1	2.46	16.062		
800.0	800.0	796.0	794.9	1.4	1.5	170.25	-48.1	8.3	49.0	46.2	2.86	17.172		
900.0	900.0	894.4	892.7	1.5	1.8	169.19	-58.7	11.2	60.2	57.0	3.26	18.464		
1,000.0	1,000.0	993.2	990.7	1.7	2.0	168.39	-70.8	14.5	72.8	69.2	3.68	19.809		
1,100.0	1,100.0	1,092.4	1,089.1	1.9	2.3	167.81	-83.0	17.9	85.6	81.5	4.10	20.895		
1,200.0	1,200.0	1,191.5	1,187.4	2.1	2.5	167.38	-95.2	21.3	98.4	93.9	4.52	21.769		
1,300.0	1,300.0	1,290.7	1,285.8	2.2	2.8	167.06	-107.5	24.7	111.2	106.2	4.94	22.486		
1,400.0	1,400.0	1,389.9	1,384.1	2.4	3.1	166.79	-119.7	28.1	124.0	118.6	5.37	23.085		
1,500.0	1,500.0	1,489.1	1,482.5	2.6	3.4	166.58	-131.9	31.5	136.8	131.0	5.80	23.593		
1,600.0	1,600.0	1,588.3	1,580.9	2.8	3.6	166.41	-144.2	34.9	149.6	143.3	6.22	24.028		
1,700.0	1,700.0	1,687.4	1,679.2	2.9	3.9	166.26	-156.4	38.2	162.4	155.7	6.65	24.405		
1,800.0	1,800.0	1,786.6	1,777.6	3.1	4.2	166.13	-168.7	41.6	175.2	168.1	7.08	24.735		
1,900.0	1,900.0	1,885.8	1,875.9	3.3	4.5	166.02	-180.9	45.0	188.0	180.4	7.51	25.026		
2,000.0	2,000.0	1,985.0	1,974.3	3.5	4.8	165.93	-193.1	48.4	200.8	192.8	7.94	25.285		
2,100.0	2,100.0	2,084.1	2,072.7	3.6	5.0	165.84	-205.4	51.8	213.5	205.2	8.37	25.516		
2,200.0	2,200.0	2,183.3	2,171.0	3.8	5.3	165.77	-217.6	55.2	226.3	217.5	8.80	25.724		
2,300.0	2,300.0	2,282.5	2,269.4	4.0	5.6	165.70	-229.8	58.6	239.1	229.9	9.23	25.912		
2,400.0	2,400.0	2,381.7	2,367.8	4.2	5.9	165.64	-242.1	62.0	251.9	242.3	9.66	26.083		
2,500.0	2,500.0	2,480.8	2,466.1	4.3	6.1	165.59	-254.3	65.3	264.7	254.7	10.09	26.239		
2,600.0	2,600.0	2,580.0	2,564.5	4.5	6.4	165.54	-266.5	68.7	277.5	267.0	10.52	26.382		
2,700.0	2,700.0	2,679.2	2,662.8	4.7	6.7	165.50	-278.8	72.1	290.3	279.4	10.95	26.514		
2,800.0	2,800.0	2,778.4	2,761.2	4.9	7.0	165.46	-291.0	75.5	303.1	291.8	11.38	26.635		
2,900.0	2,900.0	2,877.6	2,859.6	5.0	7.3	165.42	-303.3	78.9	315.9	304.1	11.81	26.748		
3,000.0	3,000.0	2,976.7	2,957.9	5.2	7.5	165.38	-315.5	82.3	328.7	316.5	12.24	26.852		
3,100.0	3,100.0	3,075.9	3,056.3	5.4	7.8	165.35	-327.7	85.7	341.5	328.9	12.67	26.949		
3,200.0	3,200.0	3,175.1	3,154.6	5.6	8.1	165.32	-340.0	89.0	354.3	341.2	13.10	27.039		
3,300.0	3,300.0	3,274.3	3,253.0	5.7	8.4	165.29	-352.2	92.4	367.1	353.6	13.54	27.124		
3,400.0	3,400.0	3,373.4	3,351.4	5.9	8.7	165.27	-364.4	95.8	379.9	366.0	13.97	27.203		
3,500.0	3,500.0	3,472.6	3,449.7	6.1	8.9	165.25	-376.7	99.2	392.7	378.3	14.40	27.278		
3,600.0	3,600.0	3,571.9	3,548.2	6.3	9.2	44.47	-388.9	102.6	404.9	392.5	12.46	32.491		
3,700.0	3,700.0	3,671.3	3,646.7	6.4	9.5	44.62	-401.2	106.0	415.9	403.1	12.81	32.453		
3,800.0	3,799.9	3,770.7	3,745.4	6.6	9.8	44.94	-413.4	109.4	425.6	412.4	13.17	32.323		
3,900.0	3,899.7	3,870.3	3,844.1	6.8	10.1	45.41	-425.7	112.8	434.1	420.6	13.52	32.108		
4,000.0	3,999.4	3,969.9	3,942.9	7.0	10.4	46.03	-438.0	116.2	441.5	427.6	13.88	31.813		
4,100.0	4,099.0	4,069.5	4,041.7	7.2	10.6	46.76	-450.3	119.6	448.3	434.1	14.24	31.487		
4,200.0	4,198.6	4,169.1	4,140.5	7.3	10.9	47.47	-462.6	123.0	455.2	440.6	14.60	31.176		
4,300.0	4,298.2	4,268.7	4,239.3	7.5	11.2	48.16	-474.9	126.4	462.2	447.2	14.97	30.878		
4,400.0	4,397.9	4,368.3	4,338.1	7.7	11.5	48.82	-487.2	129.8	469.2	453.9	15.34	30.592		
4,500.0	4,497.5	4,467.9	4,436.8	7.9	11.8	49.47	-499.5	133.2	476.3	460.6	15.71	30.317		
4,600.0	4,597.1	4,567.5	4,535.6	8.1	12.0	50.10	-511.8	136.6	483.5	467.4	16.09	30.053		
4,700.0	4,696.7	4,667.1	4,634.4	8.3	12.3	50.71	-524.0	140.0	490.7	474.2	16.47	29.799		
4,800.0	4,796.3	4,766.7	4,733.2	8.5	12.6	51.30	-536.3	143.4	497.9	481.1	16.85	29.555		

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

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													S28-T3N-R68W (Frederiksen) - FREDERIKSEN 31-28 (Existing) - DD - GYRO		Offset Site Error:		0.0 ft	
Survey Program: 200-Gyro													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						
8,900.0	7,251.0	7,430.3	7,221.5	45.5	14.3	88.52	173.9	-1,947.9	434.5	376.7	57.74	7.524	5.117 CC, ES 5.091 SF					
9,000.0	7,251.0	7,433.1	7,224.3	47.9	14.3	89.01	173.9	-1,948.0	377.2	317.1	60.13	6.273						
9,100.0	7,251.0	7,436.1	7,227.3	50.2	14.3	89.52	173.9	-1,948.1	340.3	277.8	62.54	5.442						
9,182.5	7,251.0	7,438.6	7,229.8	52.2	14.3	89.96	173.9	-1,948.2	330.1	265.6	64.52							
9,200.0	7,251.0	7,439.1	7,230.3	52.6	14.3	90.05	173.9	-1,948.2	330.6	265.7	64.94							
9,300.0	7,251.0	7,442.3	7,233.5	55.0	14.3	90.60	173.9	-1,948.3	350.4	283.0	67.35	5.203						
9,400.0	7,251.0	7,445.5	7,236.7	57.5	14.3	91.16	173.9	-1,948.4	395.3	325.5	69.76	5.666						
9,500.0	7,251.0	7,448.9	7,240.1	59.9	14.3	91.75	173.9	-1,948.5	457.9	385.7	72.16	6.346						

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design S28-T3N-R68W (Frederiksen) - FREDERIKSEN 41-28 (Existing) - DD - GYRO													Offset Site Error:	0.0 ft
Survey Program: 200-Gyro													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)				
3,800.0	3,799.9	3,944.4	3,867.7	6.6	6.5	140.96	-75.9	-469.4	489.6	477.3	12.30	39.807		
3,900.0	3,899.7	4,031.5	3,951.8	6.8	6.7	143.52	-56.7	-457.6	477.8	465.1	12.75	37.478		
4,000.0	3,999.4	4,128.1	4,045.1	7.0	6.9	146.66	-34.5	-445.8	469.8	456.6	13.26	35.445		
4,100.0	4,099.0	4,235.2	4,147.8	7.2	7.2	150.48	-8.0	-430.7	462.3	448.4	13.83	33.420		
4,200.0	4,198.6	4,332.3	4,240.4	7.3	7.5	154.17	17.0	-415.8	455.3	440.9	14.38	31.664		
4,300.0	4,298.2	4,429.2	4,333.0	7.5	7.7	157.90	41.6	-400.9	450.4	435.5	14.92	30.200		
4,400.0	4,397.9	4,529.6	4,428.7	7.7	8.0	161.82	66.7	-384.0	446.1	430.6	15.46	28.861		
4,486.9	4,484.4	4,604.8	4,500.4	7.9	8.2	164.83	85.9	-371.8	444.6	428.8	15.88	28.005 CC		
4,500.0	4,497.5	4,616.1	4,511.1	7.9	8.3	165.28	88.8	-370.1	444.7	428.7	15.94	27.896 ES		
4,600.0	4,597.1	4,700.0	4,591.0	8.1	8.5	168.74	111.5	-358.0	447.4	431.0	16.41	27.267		
4,700.0	4,696.7	4,787.9	4,674.7	8.3	8.7	172.31	136.0	-346.9	454.3	437.5	16.86	26.947		
4,800.0	4,796.3	4,883.7	4,766.1	8.5	9.0	176.03	162.6	-335.8	464.2	446.9	17.31	26.812		
4,900.0	4,896.0	4,987.6	4,864.8	8.7	9.3	-180.00	191.8	-322.2	475.1	457.3	17.77	26.742		
5,000.0	4,995.6	5,092.6	4,964.9	8.9	9.6	-176.20	219.8	-306.8	485.9	467.7	18.17	26.736 SF		
5,100.0	5,095.2	5,184.5	5,053.0	9.1	9.8	-173.28	242.1	-293.9	497.6	479.1	18.52	26.873		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Frederiksen 1D-28H-A368
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Reference Site:</b>	S28-T3N-R68W (Frederiksen)	<b>MD Reference:</b>	WELL @ 5005.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Frederiksen 1D-28H-A368	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0ft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Hz	<b>Database:</b>	USA EDM 5000 Multi Users DB
<b>Reference Design:</b>	Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to WELL @ 5005.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Frederiksen 1D-28H-A368

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°

