



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1C-34H	<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		S34-T2N-R68W (Billings)			
Site Position:		Northing:	1,280,284.39 ft	Latitude:	40.101620
From:	Lat/Long	Easting:	3,143,887.76 ft	Longitude:	-104.985650
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.33 °

Well	Billings 1C-34H					
Well Position	+N/-S	0.0 ft	Northing:	1,280,284.48 ft	Latitude:	40.101620
	+E/-W	0.0 ft	Easting:	3,143,907.34 ft	Longitude:	-104.985580
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,995.0 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	1/29/2013	8.74	66.72	52,778

<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	180.00

<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	
600.0	0.00	0.00	600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	10.00	51.00	1,594.9	54.8	67.6	1.00	1.00	0.00	51.00	
2,500.0	10.00	51.00	2,481.3	153.1	189.1	0.00	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,476.2	207.9	256.7	1.00	-1.00	0.00	180.00	
6,956.6	0.00	0.00	6,932.8	207.9	256.7	0.00	0.00	0.00	0.00	
8,081.6	90.00	177.11	7,649.0	-507.4	292.8	8.00	8.00	0.00	177.11	
9,804.1	90.00	177.11	7,649.0	-2,227.7	379.5	0.00	0.00	0.00	0.00	Billings 1C-34H TGT
9,987.6	90.00	180.79	7,649.0	-2,411.2	382.9	2.00	0.00	2.00	90.00	
12,199.4	90.00	180.79	7,649.0	-4,622.7	352.5	0.00	0.00	0.00	0.00	Billings 1C-34H PBHL

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<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1C-34H	<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	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
358.0	0.00	0.00	358.0	0.0	0.0	0.0	0.00	0.00	Fox Hills
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	KOP @ 600'
700.0	1.00	51.00	700.0	0.5	0.7	-0.5	1.00	1.00	
800.0	2.00	51.00	800.0	2.2	2.7	-2.2	1.00	1.00	
900.0	3.00	51.00	899.9	4.9	6.1	-4.9	1.00	1.00	
1,000.0	4.00	51.00	999.7	8.8	10.8	-8.8	1.00	1.00	
1,100.0	5.00	51.00	1,099.4	13.7	16.9	-13.7	1.00	1.00	
1,200.0	6.00	51.00	1,198.9	19.8	24.4	-19.8	1.00	1.00	
1,300.0	7.00	51.00	1,298.3	26.9	33.2	-26.9	1.00	1.00	
1,400.0	8.00	51.00	1,397.4	35.1	43.3	-35.1	1.00	1.00	
1,500.0	9.00	51.00	1,496.3	44.4	54.8	-44.4	1.00	1.00	
1,600.0	10.00	51.00	1,594.9	54.8	67.6	-54.8	1.00	1.00	EOD; Inc=10°
1,700.0	10.00	51.00	1,693.4	65.7	81.1	-65.7	0.00	0.00	
1,800.0	10.00	51.00	1,791.9	76.6	94.6	-76.6	0.00	0.00	
1,900.0	10.00	51.00	1,890.4	87.6	108.1	-87.6	0.00	0.00	
2,000.0	10.00	51.00	1,988.9	98.5	121.6	-98.5	0.00	0.00	
2,100.0	10.00	51.00	2,087.3	109.4	135.1	-109.4	0.00	0.00	
2,200.0	10.00	51.00	2,185.8	120.3	148.6	-120.3	0.00	0.00	
2,300.0	10.00	51.00	2,284.3	131.3	162.1	-131.3	0.00	0.00	
2,400.0	10.00	51.00	2,382.8	142.2	175.6	-142.2	0.00	0.00	
2,500.0	10.00	51.00	2,481.3	153.1	189.1	-153.1	0.00	0.00	Start Drop -1.00
2,600.0	9.00	51.00	2,579.9	163.5	201.9	-163.5	1.00	-1.00	
2,700.0	8.00	51.00	2,678.8	172.8	213.4	-172.8	1.00	-1.00	
2,800.0	7.00	51.00	2,777.9	181.0	223.6	-181.0	1.00	-1.00	
2,900.0	6.00	51.00	2,877.3	188.2	232.4	-188.2	1.00	-1.00	
3,000.0	5.00	51.00	2,976.8	194.2	239.8	-194.2	1.00	-1.00	
3,100.0	4.00	51.00	3,076.5	199.1	245.9	-199.1	1.00	-1.00	
3,200.0	3.00	51.00	3,176.3	203.0	250.6	-203.0	1.00	-1.00	
3,300.0	2.00	51.00	3,276.2	205.7	254.0	-205.7	1.00	-1.00	
3,400.0	1.00	51.00	3,376.2	207.4	256.1	-207.4	1.00	-1.00	
3,500.0	0.00	0.00	3,476.2	207.9	256.7	-207.9	1.00	-1.00	EOD; Inc=0°
3,600.0	0.00	0.00	3,576.2	207.9	256.7	-207.9	0.00	0.00	
3,700.0	0.00	0.00	3,676.2	207.9	256.7	-207.9	0.00	0.00	
3,800.0	0.00	0.00	3,776.2	207.9	256.7	-207.9	0.00	0.00	
3,900.0	0.00	0.00	3,876.2	207.9	256.7	-207.9	0.00	0.00	
4,000.0	0.00	0.00	3,976.2	207.9	256.7	-207.9	0.00	0.00	
4,100.0	0.00	0.00	4,076.2	207.9	256.7	-207.9	0.00	0.00	
4,200.0	0.00	0.00	4,176.2	207.9	256.7	-207.9	0.00	0.00	
4,300.0	0.00	0.00	4,276.2	207.9	256.7	-207.9	0.00	0.00	
4,400.0	0.00	0.00	4,376.2	207.9	256.7	-207.9	0.00	0.00	
4,467.8	0.00	0.00	4,444.0	207.9	256.7	-207.9	0.00	0.00	Sussex
4,500.0	0.00	0.00	4,476.2	207.9	256.7	-207.9	0.00	0.00	
4,600.0	0.00	0.00	4,576.2	207.9	256.7	-207.9	0.00	0.00	
4,700.0	0.00	0.00	4,676.2	207.9	256.7	-207.9	0.00	0.00	
4,737.8	0.00	0.00	4,714.0	207.9	256.7	-207.9	0.00	0.00	Sussex Marker
4,800.0	0.00	0.00	4,776.2	207.9	256.7	-207.9	0.00	0.00	

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<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1C-34H	<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
4,900.0	0.00	0.00	4,876.2	207.9	256.7	-207.9	0.00	0.00	
5,000.0	0.00	0.00	4,976.2	207.9	256.7	-207.9	0.00	0.00	
5,022.8	0.00	0.00	4,999.0	207.9	256.7	-207.9	0.00	0.00	Shannon
5,100.0	0.00	0.00	5,076.2	207.9	256.7	-207.9	0.00	0.00	
5,200.0	0.00	0.00	5,176.2	207.9	256.7	-207.9	0.00	0.00	
5,300.0	0.00	0.00	5,276.2	207.9	256.7	-207.9	0.00	0.00	
5,400.0	0.00	0.00	5,376.2	207.9	256.7	-207.9	0.00	0.00	
5,500.0	0.00	0.00	5,476.2	207.9	256.7	-207.9	0.00	0.00	
5,600.0	0.00	0.00	5,576.2	207.9	256.7	-207.9	0.00	0.00	
5,700.0	0.00	0.00	5,676.2	207.9	256.7	-207.9	0.00	0.00	
5,800.0	0.00	0.00	5,776.2	207.9	256.7	-207.9	0.00	0.00	
5,900.0	0.00	0.00	5,876.2	207.9	256.7	-207.9	0.00	0.00	
6,000.0	0.00	0.00	5,976.2	207.9	256.7	-207.9	0.00	0.00	
6,100.0	0.00	0.00	6,076.2	207.9	256.7	-207.9	0.00	0.00	
6,200.0	0.00	0.00	6,176.2	207.9	256.7	-207.9	0.00	0.00	
6,300.0	0.00	0.00	6,276.2	207.9	256.7	-207.9	0.00	0.00	
6,400.0	0.00	0.00	6,376.2	207.9	256.7	-207.9	0.00	0.00	
6,500.0	0.00	0.00	6,476.2	207.9	256.7	-207.9	0.00	0.00	
6,600.0	0.00	0.00	6,576.2	207.9	256.7	-207.9	0.00	0.00	
6,613.8	0.00	0.00	6,590.0	207.9	256.7	-207.9	0.00	0.00	Teepee Buttes
6,700.0	0.00	0.00	6,676.2	207.9	256.7	-207.9	0.00	0.00	
6,800.0	0.00	0.00	6,776.2	207.9	256.7	-207.9	0.00	0.00	
6,900.0	0.00	0.00	6,876.2	207.9	256.7	-207.9	0.00	0.00	
6,956.6	0.00	0.00	6,932.8	207.9	256.7	-207.9	0.00	0.00	Start Build 8.00
7,000.0	3.47	177.11	6,976.2	206.6	256.8	-206.6	8.00	8.00	
7,100.0	11.47	177.11	7,075.2	193.6	257.5	-193.6	8.00	8.00	
7,200.0	19.47	177.11	7,171.5	167.0	258.8	-167.0	8.00	8.00	
7,300.0	27.47	177.11	7,263.2	127.3	260.8	-127.3	8.00	8.00	
7,330.6	29.92	177.11	7,290.0	112.6	261.6	-112.6	8.00	8.00	Sharon Springs
7,400.0	35.47	177.11	7,348.4	75.2	263.4	-75.2	8.00	8.00	
7,420.6	37.12	177.11	7,365.0	63.0	264.1	-63.0	8.00	8.00	Niobrara
7,500.0	43.47	177.11	7,425.5	11.7	266.6	-11.7	8.00	8.00	
7,516.0	44.75	177.11	7,437.0	0.6	267.2	-0.6	8.00	8.00	B Chalk
7,600.0	51.47	177.11	7,493.1	-61.8	270.3	61.8	8.00	8.00	
7,604.7	51.85	177.11	7,496.0	-65.5	270.5	65.5	8.00	8.00	Ft. Hayes
7,700.0	59.47	177.11	7,549.7	-144.0	274.5	144.0	8.00	8.00	
7,800.0	67.47	177.11	7,594.3	-233.3	279.0	233.3	8.00	8.00	
7,900.0	75.47	177.11	7,626.1	-327.9	283.8	327.9	8.00	8.00	
7,961.8	80.41	177.11	7,639.0	-388.3	286.8	388.3	8.00	8.00	Codell
8,000.0	83.47	177.11	7,644.4	-426.0	288.7	426.0	8.00	8.00	
8,081.6	90.00	177.11	7,649.0	-507.4	292.8	507.4	8.00	8.00	LP @ 7649' TVD; 90°
8,100.0	90.00	177.11	7,649.0	-525.7	293.7	525.7	0.00	0.00	
8,200.0	90.00	177.11	7,649.0	-625.6	298.8	625.6	0.00	0.00	
8,300.0	90.00	177.11	7,649.0	-725.5	303.8	725.5	0.00	0.00	
8,400.0	90.00	177.11	7,649.0	-825.4	308.8	825.4	0.00	0.00	
8,500.0	90.00	177.11	7,649.0	-925.2	313.9	925.2	0.00	0.00	
8,600.0	90.00	177.11	7,649.0	-1,025.1	318.9	1,025.1	0.00	0.00	
8,700.0	90.00	177.11	7,649.0	-1,125.0	323.9	1,125.0	0.00	0.00	
8,800.0	90.00	177.11	7,649.0	-1,224.9	329.0	1,224.9	0.00	0.00	
8,900.0	90.00	177.11	7,649.0	-1,324.7	334.0	1,324.7	0.00	0.00	
9,000.0	90.00	177.11	7,649.0	-1,424.6	339.0	1,424.6	0.00	0.00	
9,100.0	90.00	177.11	7,649.0	-1,524.5	344.1	1,524.5	0.00	0.00	

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<b>Well:</b>	Billings 1C-34H	<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
9,200.0	90.00	177.11	7,649.0	-1,624.3	349.1	1,624.3	0.00	0.00	
9,300.0	90.00	177.11	7,649.0	-1,724.2	354.1	1,724.2	0.00	0.00	
9,400.0	90.00	177.11	7,649.0	-1,824.1	359.2	1,824.1	0.00	0.00	
9,500.0	90.00	177.11	7,649.0	-1,924.0	364.2	1,924.0	0.00	0.00	
9,600.0	90.00	177.11	7,649.0	-2,023.8	369.2	2,023.8	0.00	0.00	
9,700.0	90.00	177.11	7,649.0	-2,123.7	374.3	2,123.7	0.00	0.00	
9,800.0	90.00	177.11	7,649.0	-2,223.6	379.3	2,223.6	0.00	0.00	
9,804.1	90.00	177.11	7,649.0	-2,227.7	379.5	2,227.7	0.00	0.00	Start 2° turn @ 9804' MD - Billings 1C-34H TGT
9,900.0	90.00	179.03	7,649.0	-2,323.5	382.7	2,323.5	2.00	0.00	
9,987.6	90.00	180.79	7,649.0	-2,411.2	382.9	2,411.2	2.00	0.00	End of turn @ 9987' MD
10,000.0	90.00	180.79	7,649.0	-2,423.5	382.7	2,423.5	0.00	0.00	
10,100.0	90.00	180.79	7,649.0	-2,523.5	381.3	2,523.5	0.00	0.00	
10,200.0	90.00	180.79	7,649.0	-2,623.5	380.0	2,623.5	0.00	0.00	
10,300.0	90.00	180.79	7,649.0	-2,723.5	378.6	2,723.5	0.00	0.00	
10,400.0	90.00	180.79	7,649.0	-2,823.5	377.2	2,823.5	0.00	0.00	
10,500.0	90.00	180.79	7,649.0	-2,923.5	375.8	2,923.5	0.00	0.00	
10,600.0	90.00	180.79	7,649.0	-3,023.5	374.5	3,023.5	0.00	0.00	
10,700.0	90.00	180.79	7,649.0	-3,123.5	373.1	3,123.5	0.00	0.00	
10,800.0	90.00	180.79	7,649.0	-3,223.4	371.7	3,223.4	0.00	0.00	
10,900.0	90.00	180.79	7,649.0	-3,323.4	370.4	3,323.4	0.00	0.00	
11,000.0	90.00	180.79	7,649.0	-3,423.4	369.0	3,423.4	0.00	0.00	
11,100.0	90.00	180.79	7,649.0	-3,523.4	367.6	3,523.4	0.00	0.00	
11,200.0	90.00	180.79	7,649.0	-3,623.4	366.2	3,623.4	0.00	0.00	
11,300.0	90.00	180.79	7,649.0	-3,723.4	364.9	3,723.4	0.00	0.00	
11,400.0	90.00	180.79	7,649.0	-3,823.4	363.5	3,823.4	0.00	0.00	
11,500.0	90.00	180.79	7,649.0	-3,923.4	362.1	3,923.4	0.00	0.00	
11,600.0	90.00	180.79	7,649.0	-4,023.4	360.8	4,023.4	0.00	0.00	
11,700.0	90.00	180.79	7,649.0	-4,123.4	359.4	4,123.4	0.00	0.00	
11,800.0	90.00	180.79	7,649.0	-4,223.3	358.0	4,223.3	0.00	0.00	
11,900.0	90.00	180.79	7,649.0	-4,323.3	356.6	4,323.3	0.00	0.00	
12,000.0	90.00	180.79	7,649.0	-4,423.3	355.3	4,423.3	0.00	0.00	
12,100.0	90.00	180.79	7,649.0	-4,523.3	353.9	4,523.3	0.00	0.00	
12,199.4	90.00	180.79	7,649.0	-4,622.7	352.5	4,622.7	0.00	0.00	TD at 12199.4 - Billings 1C-34H 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									
Billings 1C-34H TGT	0.00	0.00	7,649.0	-2,227.7	379.5	1,278,059.04	3,144,299.76	40.095505	-104.984223
- plan hits target center									
- Point									
Billings 1C-34H PBHL	0.00	0.00	7,649.0	-4,622.7	352.5	1,275,663.94	3,144,286.69	40.088930	-104.984320
- plan hits target center									
- Point									

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1C-34H	<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 (°)	
358.0	358.0	Fox Hills				
4,467.8	4,444.0	Sussex				
4,737.8	4,714.0	Sussex Marker				
5,022.8	4,999.0	Shannon				
6,613.8	6,590.0	Teepee Buttes				
7,330.6	7,290.0	Sharon Springs				
7,420.6	7,365.0	Niobrara				
7,516.0	7,437.0	B Chalk				
7,604.7	7,496.0	Ft. Hayes				
7,961.8	7,639.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
600.0	600.0	0.0	0.0	KOP @ 600'	
1,600.0	1,594.9	54.8	67.6	EOB; Inc=10°	
2,500.0	2,481.3	153.1	189.1	Start Drop -1.00	
3,500.0	3,476.2	207.9	256.7	EOD; Inc=0°	
6,956.6	6,932.8	207.9	256.7	Start Build 8.00	
8,081.6	7,649.0	-507.4	292.8	LP @ 7649' TVD; 90°	
9,804.1	7,649.0	-2,227.7	379.5	Start 2° turn @ 9804' MD	
9,987.6	7,649.0	-2,411.2	382.9	End of turn @ 9987' MD	
12,199.4	7,649.0	-4,622.7	352.5	TD at 12199.4	

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

**DJ Wattenberg**

**S34-T2N-R68W (Billings)**

**Billings 1C-34H**

**Hz**

**Plan #1**

## **Anticollision Report**

**30 January, 2013**

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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>	1/30/2013		
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.0	12,202.3	Plan #1 (Hz)	MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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

## Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
S34-T2N-R68W (Billings)						
ALEX DONES UNIT 1 (EXISTING) - Existing - NO SURV						Out of range
ALEX DONES UNIT 2 (EXISTING) - Existing - NO SURV						Out of range
BILLINGS 1 (EXISTING) - Existing - GYRO	8,296.7	7,636.8	101.9	75.8	3.908	CC, ES
BILLINGS 1 (EXISTING) - Existing - GYRO	8,300.0	7,636.8	102.0	75.8	3.904	SF
Billings 1A-34H - Hz - Plan #1	200.0	200.0	19.6	18.9	29.998	CC, ES
Billings 1A-34H - Hz - Plan #1	500.0	498.7	27.2	25.5	15.886	SF
Billings 1B-34H - Hz - Plan #1	400.0	400.0	8.4	7.0	6.212	CC
Billings 1B-34H - Hz - Plan #1	500.0	500.0	8.6	6.9	5.056	ES
Billings 1B-34H - Hz - Plan #1	12,202.8	11,920.6	479.3	338.0	3.392	SF
Billings 1D-34H - Hz - Plan #1	600.0	600.0	11.2	9.1	5.461	CC
Billings 1D-34H - Hz - Plan #1	800.0	799.6	11.6	8.8	4.210	ES
Billings 1D-34H - Hz - Plan #1	12,202.8	11,967.8	479.4	337.9	3.389	SF
Billings 1E-34H - Hz - Plan #1	400.0	400.0	22.4	21.0	16.566	CC, ES
Billings 1E-34H - Hz - Plan #1	500.0	499.2	24.1	22.4	14.168	SF
Billings 1F-34H - Hz - Plan #1	200.0	200.0	30.8	30.1	47.140	CC, ES
Billings 1F-34H - Hz - Plan #1	500.0	495.8	46.2	44.4	26.511	SF
BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS	11,023.2	7,628.0	243.6	166.8	3.172	CC, ES, SF
BILLINGS 31-34 (EXISTING) - Existing - SURVEYS						Out of range
BILLINGS 32-34 (EXISTING) - Existing - NO SURVEYS						Out of range
BILLINGS 41-34 (EXISTING) - Existing - SURVEYS						Out of range
BILLINGS 42-34 (EXISTING) - Existing - NO SURVEYS						Out of range
BILLINGS 8-4-34 (was Billings 7-4-34) - DD - Plan #1						Out of range
GARVER 34-3M (EXISTING) - Existing - NO SURVEYS						Out of range
GARVER U 34-5 JI (EXISTING) - Existing - NO SURVEY						Out of range
MORGAN UNIT A 1 (EXISTING) - Existing - NO SURVEY						Out of range
MORGAN UNIT A 3 (EXISTING) - Existing - NO SURVEY						Out of range
PURITAN 1 (EXISTING) - Existing - NO SURVEYS						Out of range
PURITAN 2 (EXISTING) - Existing - NO SURVEYS						Out of range
PURITAN 3 (EXISTING) - Existing - NO SURVEYS						Out of range
PURITAN 33-34 (EXISTING) - Existing - GYRO						Out of range
PURITAN 34-34 (EXISTING) - Existing - SURVEYS						Out of range
PURITAN 4 (EXISTING) - Existing - NO SURVEYS						Out of range
PURITAN 44-34 (EXISTING) - Existing - SURVEYS						Out of range
PURITAN 4-4-34 (EXISTING) - Existing - SURVEYS						Out of range
PURITAN 4-6-34 (EXISTING) - Existing - SURVEYS						Out of range
PURITAN 6-4-34 (EXISTING) - Existing - SURVEYS	9,840.5	7,784.8	124.6	61.3	1.968	CC, ES, SF
PURITAN 6-8-34 - DD - Plan #1	12,202.8	7,732.3	415.4	312.3	4.028	CC, ES, SF
RODGERS 1 (EXISTING) - Existing - NO SURVEYS						Out of range
RODGERS UNIT 2 (EXISTING) - Existing - NO SURVEY						Out of range
WOOLLEY 1 (EXISTING) - Existing - NO SURVEYS						Out of range
WOOLLEY 2 (EXISTING) - Existing - NO SURVEYS						Out of range
WOOLLEY 34-14JI (EXISTING) - Existing - NO SURVEY						Out of range
WOOLLEY U 34-13JI (EXISTING) - Existing - NO SURV						Out of range

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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												S34-T2N-R68W (Billings) - BILLINGS 1 (EXISTING) - Exising - GYRO		Offset Site Error:		0.0 ft	
Survey Program:												100-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					
7,800.0	7,591.7	7,583.7	7,582.8	15.6	6.7	-28.44	-717.0	454.5	499.9	481.9	17.95	27.841					
7,900.0	7,624.3	7,615.2	7,614.3	16.2	6.7	-45.59	-716.8	454.6	407.6	388.2	19.45	20.955					
8,000.0	7,643.5	7,633.7	7,632.8	17.1	6.7	-71.38	-716.6	454.6	313.5	291.4	22.16	14.149					
8,100.0	7,649.0	7,638.4	7,637.5	18.1	6.7	-90.82	-716.6	454.6	221.5	197.8	23.69	9.352					
8,200.0	7,649.0	7,637.6	7,636.7	19.2	6.7	-90.37	-716.6	454.6	140.5	115.6	24.86	5.651					
8,296.7	7,649.0	7,636.8	7,635.9	20.4	6.7	-89.94	-716.6	454.6	101.9	75.8	26.08	3.908 CC, ES					
8,300.0	7,649.0	7,636.8	7,635.9	20.4	6.7	-89.93	-716.6	454.6	102.0	75.8	26.12	3.904 SF					
8,400.0	7,649.0	7,636.0	7,635.1	21.7	6.7	-89.48	-716.6	454.6	145.1	117.7	27.45	5.287					
8,500.0	7,649.0	7,635.2	7,634.3	23.0	6.7	-89.04	-716.6	454.6	227.4	198.6	28.84	7.887					
8,600.0	7,649.0	7,634.4	7,633.5	24.4	6.7	-88.60	-716.6	454.6	320.0	289.7	30.27	10.570					
8,700.0	7,649.0	7,633.6	7,632.7	25.8	6.7	-88.15	-716.6	454.6	416.0	384.2	31.75	13.103					

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1A-34H - 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	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.479		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	18.9	0.65	29.998 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	-89.36	0.2	-20.4	20.4	19.4	1.00	20.385		
400.0	400.0	399.3	399.2	0.7	0.7	-87.87	0.9	-22.9	23.0	21.6	1.36	16.953		
500.0	500.0	498.7	498.6	0.8	0.9	-85.99	1.9	-27.1	27.2	25.5	1.71	15.886 SF		
600.0	600.0	598.0	597.7	1.0	1.1	-84.18	3.4	-33.0	33.2	31.2	2.08	15.956		
700.0	700.0	697.0	696.4	1.2	1.3	-142.82	5.2	-40.5	41.7	39.3	2.39	17.407		
800.0	800.0	795.6	794.5	1.4	1.5	-143.15	7.5	-49.6	53.2	50.4	2.74	19.403		
900.0	899.9	893.5	891.8	1.6	1.8	-143.99	10.2	-60.3	67.8	64.7	3.09	21.940		
1,000.0	999.7	990.6	988.1	1.7	2.0	-144.98	13.2	-72.4	85.5	82.0	3.44	24.845		
1,100.0	1,099.4	1,086.8	1,083.3	2.0	2.3	-145.95	16.6	-86.0	106.2	102.4	3.79	28.004		
1,200.0	1,198.9	1,182.0	1,177.2	2.2	2.6	-146.83	20.3	-101.0	130.0	125.8	4.15	31.335		
1,300.0	1,298.3	1,278.1	1,271.8	2.4	2.9	-147.67	24.4	-117.2	156.3	151.8	4.51	34.646		
1,400.0	1,397.4	1,374.1	1,366.4	2.7	3.2	-148.51	28.4	-133.4	184.1	179.2	4.88	37.728		
1,500.0	1,496.3	1,469.6	1,460.5	2.9	3.6	-149.33	32.4	-149.5	213.3	208.1	5.25	40.620		
1,600.0	1,594.9	1,564.7	1,554.1	3.2	3.9	-150.13	36.4	-165.5	244.1	238.4	5.63	43.356		
1,700.0	1,693.4	1,659.6	1,647.5	3.6	4.2	-150.97	40.4	-181.5	275.6	269.6	6.02	45.784		
1,800.0	1,791.9	1,754.4	1,740.9	3.9	4.5	-151.64	44.4	-197.5	307.1	300.7	6.41	47.909		
1,900.0	1,890.4	1,849.2	1,834.3	4.2	4.9	-152.18	48.3	-213.4	338.7	331.9	6.80	49.783		
2,000.0	1,988.9	1,944.1	1,927.7	4.5	5.2	-152.63	52.3	-229.4	370.3	363.2	7.20	51.447		
2,100.0	2,087.3	2,038.9	2,021.1	4.9	5.5	-153.01	56.3	-245.4	402.0	394.4	7.59	52.934		
2,200.0	2,185.8	2,133.7	2,114.5	5.2	5.9	-153.33	60.3	-261.4	433.6	425.6	7.99	54.270		
2,300.0	2,284.3	2,228.6	2,207.9	5.5	6.2	-153.61	64.3	-277.3	465.3	456.9	8.39	55.476		
2,400.0	2,382.8	2,323.4	2,301.3	5.9	6.5	-153.86	68.3	-293.3	497.0	488.2	8.78	56.571		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1B-34H - 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	-89.94	0.0	-8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-8.4	8.4	8.1	0.30	27.634		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-8.4	8.4	7.7	0.65	12.856		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-8.4	8.4	7.4	1.00	8.377		
400.0	400.0	400.0	400.0	0.7	0.7	-89.94	0.0	-8.4	8.4	7.0	1.35	6.212 CC		
500.0	500.0	500.0	500.0	0.8	0.9	-84.22	0.9	-8.6	8.6	6.9	1.70	5.056 ES		
600.0	600.0	599.9	599.8	1.0	1.0	-69.18	3.4	-9.0	9.7	7.6	2.05	4.711		
700.0	700.0	699.7	699.5	1.2	1.2	-115.00	7.7	-9.8	12.8	10.4	2.40	5.343		
800.0	800.0	799.3	799.0	1.4	1.4	-108.92	13.7	-11.0	18.4	15.6	2.76	6.653		
900.0	899.9	898.7	898.1	1.6	1.6	-107.11	21.3	-12.4	25.9	22.8	3.13	8.281		
1,000.0	999.7	997.8	996.7	1.7	1.8	-107.13	30.6	-14.1	35.3	31.8	3.51	10.070		
1,100.0	1,099.4	1,096.6	1,094.9	2.0	2.1	-107.86	41.6	-16.2	46.6	42.7	3.91	11.938		
1,200.0	1,198.9	1,195.0	1,192.5	2.2	2.3	-108.81	54.1	-18.5	59.8	55.5	4.33	13.825		
1,300.0	1,298.3	1,293.9	1,290.4	2.4	2.6	-110.18	67.7	-21.1	74.3	69.5	4.77	15.575		
1,400.0	1,397.4	1,392.7	1,388.2	2.7	2.9	-112.10	81.2	-23.6	89.5	84.3	5.24	17.073		
1,500.0	1,496.3	1,491.4	1,485.9	2.9	3.1	-114.30	94.7	-26.1	105.5	99.7	5.74	18.381		
1,600.0	1,594.9	1,589.8	1,583.4	3.2	3.4	-116.61	108.1	-28.6	122.3	116.1	6.26	19.552		
1,700.0	1,693.4	1,688.2	1,680.8	3.6	3.7	-118.80	121.6	-31.1	139.8	133.0	6.79	20.597		
1,800.0	1,791.9	1,786.5	1,778.2	3.9	4.0	-120.50	135.0	-33.7	157.4	150.0	7.32	21.501		
1,900.0	1,890.4	1,884.8	1,875.6	4.2	4.3	-121.86	148.5	-36.2	175.0	167.2	7.85	22.287		
2,000.0	1,988.9	1,984.5	1,974.3	4.5	4.6	-123.07	161.8	-38.7	192.6	184.2	8.39	22.961		
2,100.0	2,087.3	2,085.0	2,074.1	4.9	4.8	-124.46	173.6	-40.9	209.3	200.4	8.91	23.491		
2,200.0	2,185.8	2,185.7	2,174.3	5.2	5.1	-126.02	183.7	-42.8	225.2	215.8	9.42	23.914		
2,300.0	2,284.3	2,286.5	2,274.8	5.5	5.3	-127.73	192.0	-44.3	240.2	230.3	9.90	24.264		
2,400.0	2,382.8	2,387.4	2,375.4	5.9	5.5	-129.58	198.6	-45.6	254.6	244.2	10.36	24.571		
2,500.0	2,481.3	2,488.3	2,476.2	6.2	5.7	-131.57	203.5	-46.5	268.4	257.6	10.80	24.861		
2,600.0	2,579.7	2,589.1	2,576.9	6.5	5.8	-133.69	206.7	-47.1	281.7	270.5	11.20	25.152		
2,700.0	2,678.2	2,689.8	2,677.6	6.9	6.0	-135.92	208.0	-47.3	294.6	283.0	11.57	25.464		
2,800.0	2,776.7	2,788.9	2,776.7	7.2	6.1	-138.16	208.1	-47.3	307.4	295.5	11.92	25.797		
2,900.0	2,875.2	2,887.4	2,875.2	7.6	6.2	-140.21	208.1	-47.3	320.7	308.4	12.25	26.167		
3,000.0	2,973.7	2,985.9	2,973.7	7.9	6.4	-142.13	208.1	-47.3	334.1	321.6	12.59	26.547		
3,100.0	3,072.4	3,084.6	3,072.4	8.2	6.5	-143.79	208.1	-47.3	346.8	333.8	12.91	26.857		
3,200.0	3,171.5	3,183.7	3,171.5	8.5	6.7	-145.18	208.1	-47.3	358.2	345.0	13.23	27.076		
3,300.0	3,270.7	3,282.9	3,270.7	8.8	6.8	-146.32	208.1	-47.3	368.4	354.8	13.54	27.201		
3,400.0	3,370.1	3,382.3	3,370.1	9.0	6.9	-147.25	208.1	-47.3	377.2	363.3	13.85	27.230		
3,500.0	3,469.8	3,482.0	3,469.8	9.2	7.1	-148.00	208.1	-47.3	384.6	370.5	14.16	27.165		
3,600.0	3,569.5	3,581.7	3,569.5	9.4	7.2	-148.58	208.1	-47.3	390.6	376.2	14.46	27.007		
3,700.0	3,669.4	3,681.6	3,669.4	9.6	7.4	-149.01	208.1	-47.3	395.2	380.4	14.77	26.759		
3,800.0	3,769.3	3,781.5	3,769.3	9.8	7.5	-149.29	208.1	-47.3	398.3	383.2	15.07	26.425		
3,900.0	3,869.3	3,881.5	3,869.3	9.9	7.7	-149.43	208.1	-47.3	399.8	384.5	15.37	26.010		
4,000.0	3,969.3	3,981.5	3,969.3	10.0	7.9	-89.95	208.1	-47.3	400.1	384.4	15.68	25.519		
4,100.0	4,069.3	4,081.5	4,069.3	10.1	8.0	-89.95	208.1	-47.3	400.1	384.1	15.99	25.024		
4,200.0	4,169.3	4,181.5	4,169.3	10.3	8.2	-89.95	208.1	-47.3	400.1	383.8	16.30	24.546		
4,300.0	4,269.3	4,281.5	4,269.3	10.4	8.3	-89.95	208.1	-47.3	400.1	383.5	16.61	24.083		
4,400.0	4,369.3	4,381.5	4,369.3	10.5	8.5	-89.95	208.1	-47.3	400.1	383.1	16.93	23.636		
4,500.0	4,469.3	4,481.5	4,469.3	10.6	8.6	-89.95	208.1	-47.3	400.1	382.8	17.24	23.203		
4,600.0	4,569.3	4,581.5	4,569.3	10.8	8.8	-89.95	208.1	-47.3	400.1	382.5	17.56	22.784		
4,700.0	4,669.3	4,681.5	4,669.3	10.9	8.9	-89.95	208.1	-47.3	400.1	382.2	17.88	22.378		
4,800.0	4,769.3	4,781.5	4,769.3	11.0	9.1	-89.95	208.1	-47.3	400.1	381.9	18.20	21.986		
4,900.0	4,869.3	4,881.5	4,869.3	11.2	9.3	-89.95	208.1	-47.3	400.1	381.6	18.52	21.605		
5,000.0	4,969.3	4,981.5	4,969.3	11.3	9.4	-89.95	208.1	-47.3	400.1	381.2	18.84	21.236		
5,100.0	5,069.3	5,081.5	5,069.3	11.4	9.6	-89.95	208.1	-47.3	400.1	380.9	19.16	20.879		

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 Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1B-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-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	5,169.3	5,181.5	5,169.3	11.6	9.8	-89.95	208.1	-47.3	400.1	380.6	19.48	20.533		
5,300.0	5,269.3	5,281.5	5,269.3	11.7	9.9	-89.95	208.1	-47.3	400.1	380.3	19.81	20.197		
5,400.0	5,369.3	5,381.5	5,369.3	11.8	10.1	-89.95	208.1	-47.3	400.1	379.9	20.13	19.871		
5,500.0	5,469.3	5,481.5	5,469.3	12.0	10.2	-89.95	208.1	-47.3	400.1	379.6	20.46	19.554		
5,600.0	5,569.3	5,581.5	5,569.3	12.1	10.4	-89.95	208.1	-47.3	400.1	379.3	20.79	19.247		
5,700.0	5,669.3	5,681.5	5,669.3	12.3	10.6	-89.95	208.1	-47.3	400.1	379.0	21.11	18.949		
5,800.0	5,769.3	5,781.5	5,769.3	12.4	10.7	-89.95	208.1	-47.3	400.1	378.6	21.44	18.659		
5,900.0	5,869.3	5,881.5	5,869.3	12.6	10.9	-89.95	208.1	-47.3	400.1	378.3	21.77	18.377		
6,000.0	5,969.3	5,981.5	5,969.3	12.7	11.1	-89.95	208.1	-47.3	400.1	378.0	22.10	18.103		
6,100.0	6,069.3	6,081.5	6,069.3	12.8	11.2	-89.95	208.1	-47.3	400.1	377.6	22.43	17.837		
6,200.0	6,169.3	6,181.5	6,169.3	13.0	11.4	-89.95	208.1	-47.3	400.1	377.3	22.76	17.578		
6,300.0	6,269.3	6,281.5	6,269.3	13.1	11.5	-89.95	208.1	-47.3	400.1	377.0	23.09	17.326		
6,400.0	6,369.3	6,381.5	6,369.3	13.3	11.7	-89.95	208.1	-47.3	400.1	376.7	23.42	17.081		
6,500.0	6,469.3	6,481.5	6,469.3	13.4	11.9	-89.95	208.1	-47.3	400.1	376.3	23.75	16.842		
6,600.0	6,569.3	6,581.5	6,569.3	13.6	12.0	-89.95	208.1	-47.3	400.1	376.0	24.09	16.610		
6,700.0	6,669.3	6,681.5	6,669.3	13.7	12.2	-89.95	208.1	-47.3	400.1	375.7	24.42	16.383		
6,730.3	6,699.6	6,711.8	6,699.5	13.8	12.3	-90.05	207.5	-47.3	400.1	375.6	24.51	16.323		
6,800.0	6,769.3	6,780.9	6,768.3	13.9	12.3	-90.95	201.2	-47.3	400.1	375.5	24.67	16.218		
6,900.0	6,869.3	6,876.6	6,861.9	14.0	12.4	-93.75	181.6	-47.3	401.0	376.2	24.82	16.158		
7,000.0	6,969.3	6,965.9	6,946.3	14.2	12.4	82.06	152.2	-47.3	404.4	379.6	24.89	16.248		
7,100.0	7,068.5	7,050.0	7,021.7	14.2	12.4	77.72	115.1	-47.3	410.6	385.7	24.92	16.478		
7,200.0	7,165.0	7,133.9	7,092.1	14.3	12.5	73.60	69.6	-47.3	418.7	393.7	24.95	16.777		
7,300.0	7,257.0	7,214.3	7,154.2	14.3	12.6	69.94	18.6	-47.3	427.9	402.9	25.02	17.102		
7,400.0	7,342.8	7,292.8	7,208.9	14.4	12.8	66.71	-37.7	-47.4	437.7	412.6	25.13	17.417		
7,500.0	7,420.5	7,369.9	7,256.3	14.5	13.0	63.94	-98.4	-47.4	447.4	422.1	25.30	17.680		
7,600.0	7,488.7	7,450.0	7,298.3	14.7	13.4	61.53	-166.6	-47.4	456.5	430.9	25.57	17.851		
7,700.0	7,546.2	7,520.6	7,328.9	15.0	13.8	59.75	-230.1	-47.4	464.4	438.4	25.94	17.903		
7,800.0	7,591.7	7,600.0	7,355.6	15.6	14.4	58.26	-304.9	-47.4	470.9	444.4	26.50	17.769		
7,900.0	7,624.3	7,668.3	7,371.8	16.2	15.1	57.32	-371.2	-47.4	475.7	448.4	27.23	17.471		
8,000.0	7,643.5	7,741.5	7,382.1	17.1	15.8	56.75	-443.7	-47.4	478.5	450.3	28.21	16.960		
8,100.0	7,649.0	7,817.8	7,385.0	18.1	16.6	56.58	-519.9	-47.4	479.3	449.8	29.53	16.235		
8,200.0	7,649.0	7,917.8	7,385.0	19.2	17.8	56.58	-619.9	-47.4	479.3	447.8	31.50	15.217		
8,300.0	7,649.0	8,017.8	7,385.0	20.4	19.1	56.58	-719.9	-47.4	479.3	445.7	33.61	14.260		
8,400.0	7,649.0	8,117.8	7,385.0	21.7	20.4	56.58	-819.9	-47.4	479.3	443.5	35.84	13.373		
8,500.0	7,649.0	8,217.8	7,385.0	23.0	21.8	56.58	-919.9	-47.4	479.3	441.2	38.17	12.559		
8,600.0	7,649.0	8,317.8	7,385.0	24.4	23.3	56.58	-1,019.9	-47.4	479.3	438.8	40.57	11.814		
8,700.0	7,649.0	8,417.8	7,385.0	25.8	24.8	56.58	-1,119.9	-47.4	479.3	436.3	43.04	11.136		
8,800.0	7,649.0	8,517.8	7,385.0	27.3	26.3	56.58	-1,219.9	-47.4	479.3	433.8	45.57	10.519		
8,900.0	7,649.0	8,617.8	7,385.0	28.8	27.9	56.58	-1,319.9	-47.4	479.3	431.2	48.14	9.957		
9,000.0	7,649.0	8,717.8	7,385.0	30.3	29.4	56.58	-1,419.9	-47.4	479.3	428.6	50.75	9.444		
9,100.0	7,649.0	8,817.8	7,385.0	31.9	31.0	56.58	-1,519.9	-47.4	479.3	425.9	53.40	8.976		
9,200.0	7,649.0	8,917.8	7,385.0	33.4	32.6	56.58	-1,619.9	-47.4	479.3	423.3	56.07	8.548		
9,300.0	7,649.0	9,017.8	7,385.0	35.0	34.3	56.58	-1,719.9	-47.4	479.3	420.6	58.77	8.156		
9,400.0	7,649.0	9,117.8	7,385.0	36.6	35.9	56.58	-1,819.9	-47.4	479.3	417.8	61.49	7.795		
9,500.0	7,649.0	9,217.8	7,385.0	38.3	37.5	56.58	-1,919.9	-47.4	479.3	415.1	64.23	7.462		
9,600.0	7,649.0	9,317.8	7,385.0	39.9	39.2	56.58	-2,019.9	-47.4	479.3	412.3	66.99	7.155		
9,700.0	7,649.0	9,417.8	7,385.0	41.5	40.9	56.58	-2,119.9	-47.4	479.3	409.6	69.76	6.871		
9,800.0	7,649.0	9,517.8	7,385.0	43.2	42.5	56.58	-2,219.9	-47.5	479.3	406.8	72.55	6.607		
9,900.0	7,649.0	9,617.8	7,385.0	44.8	44.2	56.58	-2,319.9	-47.5	479.3	404.0	75.34	6.362		
10,000.0	7,649.0	9,717.8	7,385.0	46.5	45.9	56.58	-2,419.9	-47.5	479.3	401.2	78.15	6.134		
10,100.0	7,649.0	9,817.8	7,385.0	48.2	47.6	56.58	-2,519.9	-47.5	479.3	398.4	80.96	5.920		
10,200.0	7,649.0	9,917.8	7,385.0	49.8	49.3	56.58	-2,619.9	-47.5	479.3	395.6	83.79	5.721		

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 Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1B-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,649.0	10,017.8	7,385.0	51.5	51.0	56.58	-2,719.9	-47.5	479.3	392.7	86.62	5.534		
10,400.0	7,649.0	10,117.8	7,385.0	53.2	52.7	56.58	-2,819.9	-47.5	479.3	389.9	89.46	5.358		
10,500.0	7,649.0	10,217.8	7,385.0	54.9	54.4	56.58	-2,919.9	-47.5	479.3	387.0	92.30	5.193		
10,600.0	7,649.0	10,317.8	7,385.0	56.6	56.1	56.58	-3,019.9	-47.5	479.3	384.2	95.15	5.038		
10,700.0	7,649.0	10,417.8	7,385.0	58.3	57.8	56.58	-3,119.9	-47.5	479.3	381.3	98.01	4.891		
10,800.0	7,649.0	10,517.8	7,385.0	60.0	59.5	56.58	-3,219.9	-47.5	479.3	378.5	100.86	4.752		
10,900.0	7,649.0	10,617.8	7,385.0	61.7	61.2	56.58	-3,319.9	-47.5	479.3	375.6	103.73	4.621		
11,000.0	7,649.0	10,717.8	7,385.0	63.4	62.9	56.58	-3,419.9	-47.5	479.3	372.7	106.60	4.497		
11,100.0	7,649.0	10,817.8	7,385.0	65.1	64.7	56.58	-3,519.9	-47.5	479.3	369.9	109.47	4.379		
11,200.0	7,649.0	10,917.8	7,385.0	66.8	66.4	56.58	-3,619.9	-47.5	479.3	367.0	112.34	4.267		
11,300.0	7,649.0	11,017.8	7,385.0	68.5	68.1	56.58	-3,719.9	-47.5	479.3	364.1	115.22	4.160		
11,400.0	7,649.0	11,117.8	7,385.0	70.2	69.8	56.58	-3,819.9	-47.5	479.3	361.2	118.10	4.059		
11,500.0	7,649.0	11,217.8	7,385.0	72.0	71.6	56.58	-3,919.9	-47.5	479.3	358.4	120.98	3.962		
11,600.0	7,649.0	11,317.8	7,385.0	73.7	73.3	56.58	-4,019.9	-47.5	479.3	355.5	123.87	3.870		
11,700.0	7,649.0	11,417.8	7,385.0	75.4	75.0	56.58	-4,119.9	-47.5	479.3	352.6	126.76	3.782		
11,800.0	7,649.0	11,517.8	7,385.0	77.1	76.7	56.58	-4,219.9	-47.5	479.3	349.7	129.65	3.697		
11,900.0	7,649.0	11,617.8	7,385.0	78.8	78.5	56.58	-4,319.9	-47.5	479.3	346.8	132.54	3.617		
12,000.0	7,649.0	11,717.8	7,385.0	80.6	80.2	56.58	-4,419.9	-47.6	479.3	343.9	135.43	3.539		
12,100.0	7,649.0	11,817.8	7,385.0	82.3	81.9	56.58	-4,519.9	-47.6	479.3	341.0	138.33	3.465		
12,200.0	7,649.0	11,917.8	7,385.0	84.0	83.7	56.58	-4,619.9	-47.6	479.3	338.1	141.23	3.394		
12,202.8	7,649.0	11,920.6	7,385.0	84.1	83.7	56.58	-4,622.7	-47.6	479.3	338.0	141.31	3.392 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1D-34H - 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	90.04	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	11.2	11.2	10.9	0.30	36.845		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.5	0.65	17.142		
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	11.2	11.2	10.2	1.00	11.169		
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	11.2	11.2	9.8	1.35	8.283		
500.0	500.0	500.0	500.0	0.8	0.8	90.04	0.0	11.2	11.2	9.5	1.70	6.582		
600.0	600.0	600.0	600.0	1.0	1.0	90.04	0.0	11.2	11.2	9.1	2.05	5.461 CC		
700.0	700.0	699.8	699.8	1.2	1.2	31.59	0.2	12.0	11.3	8.9	2.40	4.704		
800.0	800.0	799.6	799.6	1.4	1.4	34.64	0.9	14.5	11.6	8.8	2.75	4.210 ES		
900.0	899.9	899.4	899.3	1.6	1.6	39.37	2.1	18.7	12.1	9.0	3.10	3.908		
1,000.0	999.7	999.2	998.9	1.7	1.7	45.26	3.8	24.6	13.0	9.5	3.46	3.756		
1,100.0	1,099.4	1,099.0	1,098.4	2.0	1.9	51.67	5.9	32.1	14.3	10.5	3.84	3.726		
1,200.0	1,198.9	1,198.8	1,197.7	2.2	2.2	57.97	8.5	41.3	16.1	11.9	4.25	3.791		
1,300.0	1,298.3	1,298.5	1,296.8	2.4	2.4	63.74	11.5	52.1	18.5	13.8	4.71	3.923		
1,400.0	1,397.4	1,398.2	1,395.7	2.7	2.7	68.77	15.0	64.6	21.3	16.1	5.20	4.099		
1,500.0	1,496.3	1,498.0	1,494.3	2.9	2.9	73.01	19.0	78.8	24.7	19.0	5.75	4.299		
1,600.0	1,594.9	1,597.6	1,592.6	3.2	3.2	76.53	23.4	94.6	28.6	22.3	6.35	4.508		
1,700.0	1,693.4	1,697.5	1,691.0	3.6	3.5	79.30	28.1	111.3	32.8	25.9	6.97	4.710		
1,800.0	1,791.9	1,797.4	1,789.4	3.9	3.9	81.43	32.8	128.0	37.1	29.5	7.61	4.877		
1,900.0	1,890.4	1,897.3	1,887.7	4.2	4.2	83.12	37.5	144.7	41.4	33.2	8.26	5.016		
2,000.0	1,988.9	1,997.2	1,986.1	4.5	4.5	84.49	42.2	161.4	45.8	36.9	8.92	5.134		
2,100.0	2,087.3	2,097.1	2,084.5	4.9	4.9	85.62	46.9	178.1	50.2	40.6	9.59	5.234		
2,200.0	2,185.8	2,197.0	2,182.9	5.2	5.2	86.57	51.6	194.8	54.6	44.3	10.25	5.320		
2,300.0	2,284.3	2,296.9	2,281.3	5.5	5.5	87.38	56.3	211.5	59.0	48.0	10.93	5.395		
2,400.0	2,382.8	2,396.8	2,379.7	5.9	5.9	88.08	61.0	228.2	63.4	51.8	11.61	5.460		
2,500.0	2,481.3	2,496.7	2,478.0	6.2	6.2	88.68	65.7	244.9	67.8	55.5	12.29	5.517		
2,600.0	2,579.7	2,596.6	2,576.4	6.5	6.5	89.21	70.4	261.6	72.2	59.2	12.97	5.568		
2,700.0	2,678.2	2,696.5	2,674.8	6.9	6.9	89.68	75.1	278.3	76.6	63.0	13.65	5.614		
2,800.0	2,776.7	2,796.4	2,773.2	7.2	7.2	90.10	79.8	295.0	81.1	66.7	14.34	5.655		
2,900.0	2,875.2	2,896.3	2,871.6	7.6	7.6	90.47	84.5	311.7	85.5	70.5	15.02	5.691		
3,000.0	2,973.7	2,996.2	2,969.9	7.9	7.9	90.72	89.2	328.4	90.0	74.2	15.71	5.727		
3,100.0	3,072.4	3,096.1	3,068.3	8.2	8.3	90.07	93.8	345.1	94.4	78.0	16.34	5.774		
3,200.0	3,171.5	3,196.0	3,166.7	8.5	8.6	88.47	98.5	361.8	98.9	81.9	16.93	5.838		
3,300.0	3,270.7	3,295.8	3,264.9	8.8	9.0	86.05	103.2	378.5	103.5	86.0	17.46	5.929		
3,400.0	3,370.1	3,395.5	3,363.1	9.0	9.3	82.94	107.9	395.1	108.5	90.6	17.90	6.062		
3,500.0	3,469.8	3,495.1	3,461.2	9.2	9.7	79.26	112.6	411.8	114.2	95.9	18.25	6.255		
3,600.0	3,569.5	3,594.5	3,559.1	9.4	10.0	75.16	117.3	428.4	120.7	102.2	18.50	6.526		
3,700.0	3,669.4	3,693.7	3,656.8	9.6	10.3	70.78	121.9	445.0	128.4	109.7	18.63	6.892		
3,800.0	3,769.3	3,792.7	3,754.3	9.8	10.7	66.27	126.6	461.5	137.4	118.8	18.65	7.368		
3,900.0	3,869.3	3,891.5	3,851.6	9.9	11.0	61.77	131.2	478.1	148.0	129.4	18.59	7.965		
4,000.0	3,969.3	3,990.0	3,948.6	10.0	11.4	116.90	135.9	494.5	160.3	141.9	18.47	8.680		
4,100.0	4,069.3	4,088.5	4,045.6	10.1	11.7	113.04	140.5	511.0	173.6	155.2	18.38	9.445		
4,200.0	4,169.3	4,187.0	4,142.6	10.3	12.1	109.73	145.1	527.5	187.5	169.2	18.33	10.229		
4,300.0	4,269.3	4,285.5	4,239.6	10.4	12.4	106.89	149.7	543.9	202.0	183.7	18.33	11.019		
4,400.0	4,369.3	4,383.9	4,336.6	10.5	12.8	104.43	154.4	560.4	216.9	198.5	18.37	11.806		
4,500.0	4,469.3	4,482.4	4,433.6	10.6	13.1	102.28	159.0	576.8	232.1	213.7	18.45	12.583		
4,600.0	4,569.3	4,580.9	4,530.5	10.8	13.5	100.40	163.6	593.3	247.6	229.1	18.56	13.344		
4,700.0	4,669.3	4,679.4	4,627.5	10.9	13.8	98.74	168.2	609.8	263.4	244.7	18.70	14.087		
4,800.0	4,769.3	4,777.9	4,724.5	11.0	14.1	97.27	172.9	626.2	279.3	260.5	18.86	14.810		
4,900.0	4,869.3	4,876.3	4,821.5	11.2	14.5	95.96	177.5	642.7	295.4	276.4	19.04	15.512		
5,000.0	4,969.3	4,974.8	4,918.5	11.3	14.8	94.79	182.1	659.2	311.7	292.4	19.25	16.192		
5,100.0	5,069.3	5,075.5	5,017.7	11.4	15.2	93.71	186.8	675.8	327.9	308.4	19.47	16.842		

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 Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1D-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,169.3	5,180.0	5,120.9	11.6	15.5	92.79	191.3	691.7	342.8	323.1	19.71	17.393		
5,300.0	5,269.3	5,285.2	5,225.0	11.7	15.8	92.03	195.3	705.8	356.1	336.1	19.97	17.829		
5,400.0	5,369.3	5,390.8	5,329.8	11.8	16.1	91.42	198.7	718.2	367.7	347.4	20.25	18.156		
5,500.0	5,469.3	5,496.9	5,435.3	12.0	16.3	90.93	201.7	728.7	377.5	357.0	20.54	18.377		
5,600.0	5,569.3	5,603.3	5,541.4	12.1	16.6	90.55	204.1	737.4	385.7	364.8	20.85	18.498		
5,700.0	5,669.3	5,710.1	5,647.9	12.3	16.8	90.26	206.0	744.1	392.0	370.8	21.16	18.524		
5,800.0	5,769.3	5,817.0	5,754.8	12.4	16.9	90.06	207.4	749.0	396.6	375.1	21.48	18.458		
5,900.0	5,869.3	5,924.2	5,861.8	12.6	17.1	89.94	208.2	752.0	399.3	377.5	21.81	18.305		
6,000.0	5,969.3	6,031.4	5,969.0	12.7	17.2	89.90	208.5	753.0	400.3	378.1	22.15	18.070		
6,100.0	6,069.3	6,131.6	6,069.3	12.8	17.3	89.90	208.5	753.0	400.3	377.8	22.48	17.804		
6,200.0	6,169.3	6,231.6	6,169.3	13.0	17.4	89.90	208.5	753.0	400.3	377.5	22.81	17.546		
6,300.0	6,269.3	6,331.6	6,269.3	13.1	17.5	89.90	208.5	753.0	400.3	377.1	23.15	17.294		
6,400.0	6,369.3	6,431.6	6,369.3	13.3	17.6	89.90	208.5	753.0	400.3	376.8	23.48	17.050		
6,500.0	6,469.3	6,531.6	6,469.3	13.4	17.7	89.90	208.5	753.0	400.3	376.5	23.81	16.811		
6,600.0	6,569.3	6,631.6	6,569.3	13.6	17.9	89.90	208.5	753.0	400.3	376.1	24.14	16.580		
6,700.0	6,669.3	6,731.6	6,669.3	13.7	18.0	89.90	208.5	753.0	400.3	375.8	24.48	16.354		
6,734.6	6,703.8	6,766.2	6,703.8	13.8	18.0	90.02	207.7	753.0	400.3	375.7	24.59	16.276		
6,800.0	6,769.3	6,831.1	6,768.4	13.9	18.0	90.89	201.5	753.0	400.3	375.5	24.86	16.106		
6,900.0	6,869.3	6,926.8	6,862.0	14.0	18.1	93.69	181.9	753.0	401.2	375.8	25.35	15.826		
7,000.0	6,969.3	7,016.2	6,946.4	14.2	18.1	-82.12	152.5	753.0	404.6	378.7	25.92	15.607		
7,100.0	7,068.5	7,100.0	7,021.6	14.2	18.1	-77.79	115.6	753.0	410.7	384.3	26.38	15.571		
7,200.0	7,165.0	7,184.2	7,092.3	14.3	18.2	-73.65	69.9	753.0	418.7	392.1	26.60	15.742		
7,300.0	7,257.0	7,264.7	7,154.3	14.3	18.2	-69.99	18.8	753.0	428.0	401.4	26.55	16.117		
7,400.0	7,342.8	7,343.2	7,209.1	14.4	18.3	-66.75	-37.5	753.0	437.7	411.4	26.34	16.618		
7,500.0	7,420.5	7,420.3	7,256.4	14.5	18.5	-63.97	-98.3	753.0	447.4	421.4	25.99	17.214		
7,600.0	7,488.7	7,500.0	7,298.3	14.7	18.8	-61.57	-166.1	753.0	456.5	430.8	25.67	17.783		
7,700.0	7,546.2	7,571.0	7,329.0	15.0	19.1	-59.78	-230.0	753.0	464.5	438.9	25.59	18.152		
7,800.0	7,591.7	7,650.0	7,355.5	15.6	19.5	-58.29	-304.4	753.0	471.0	445.1	25.91	18.178		
7,900.0	7,624.3	7,718.7	7,371.9	16.2	20.0	-57.34	-371.1	753.0	475.8	449.0	26.77	17.772		
8,000.0	7,643.5	7,792.0	7,382.1	17.1	20.5	-56.76	-443.6	753.0	478.6	450.4	28.26	16.938		
8,100.0	7,649.0	7,868.4	7,385.0	18.1	21.2	-56.59	-519.9	753.0	479.5	449.2	30.29	15.831		
8,200.0	7,649.0	7,968.4	7,385.0	19.2	22.1	-56.59	-619.9	752.9	479.5	447.2	32.22	14.879		
8,300.0	7,649.0	8,068.4	7,385.0	20.4	23.1	-56.59	-719.9	752.9	479.5	445.2	34.30	13.980		
8,400.0	7,649.0	8,168.4	7,385.0	21.7	24.3	-56.59	-819.9	752.9	479.5	443.0	36.49	13.140		
8,500.0	7,649.0	8,268.4	7,385.0	23.0	25.5	-56.59	-919.9	752.9	479.5	440.7	38.78	12.364		
8,600.0	7,649.0	8,368.4	7,385.0	24.4	26.7	-56.59	-1,019.9	752.9	479.5	438.3	41.15	11.651		
8,700.0	7,649.0	8,468.4	7,385.0	25.8	28.0	-56.59	-1,119.9	752.9	479.5	435.9	43.59	10.998		
8,800.0	7,649.0	8,568.4	7,385.0	27.3	29.4	-56.59	-1,219.9	752.9	479.5	433.4	46.09	10.402		
8,900.0	7,649.0	8,668.4	7,385.0	28.8	30.8	-56.59	-1,319.9	752.9	479.4	430.8	48.64	9.857		
9,000.0	7,649.0	8,768.4	7,385.0	30.3	32.2	-56.59	-1,419.9	752.9	479.4	428.2	51.23	9.359		
9,100.0	7,649.0	8,868.4	7,385.0	31.9	33.7	-56.59	-1,519.9	752.9	479.4	425.6	53.86	8.902		
9,200.0	7,649.0	8,968.4	7,385.0	33.4	35.2	-56.59	-1,619.9	752.9	479.4	422.9	56.51	8.484		
9,300.0	7,649.0	9,068.4	7,385.0	35.0	36.7	-56.59	-1,719.9	752.9	479.4	420.2	59.19	8.100		
9,400.0	7,649.0	9,168.4	7,385.0	36.6	38.2	-56.59	-1,819.9	752.9	479.4	417.5	61.90	7.745		
9,500.0	7,649.0	9,268.4	7,385.0	38.3	39.8	-56.59	-1,919.9	752.8	479.4	414.8	64.62	7.419		
9,600.0	7,649.0	9,368.4	7,385.0	39.9	41.3	-56.59	-2,019.9	752.8	479.4	412.1	67.37	7.117		
9,700.0	7,649.0	9,468.4	7,385.0	41.5	42.9	-56.59	-2,119.9	752.8	479.4	409.3	70.13	6.837		
9,800.0	7,649.0	9,568.4	7,385.0	43.2	44.5	-56.59	-2,219.9	752.8	479.4	406.5	72.90	6.577		
9,900.0	7,649.0	9,668.4	7,385.0	44.8	46.1	-56.59	-2,319.9	752.8	479.4	403.7	75.68	6.335		
10,000.0	7,649.0	9,768.4	7,385.0	46.5	47.7	-56.59	-2,419.9	752.8	479.4	400.9	78.48	6.109		
10,100.0	7,649.0	9,868.4	7,385.0	48.2	49.4	-56.59	-2,519.9	752.8	479.4	398.1	81.28	5.898		
10,200.0	7,649.0	9,968.4	7,385.0	49.8	51.0	-56.59	-2,619.9	752.8	479.4	395.3	84.10	5.700		

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 Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1D-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,300.0	7,649.0	10,068.4	7,385.0	51.5	52.6	-56.59	-2,719.9	752.8	479.4	392.5	86.92	5.515		
10,400.0	7,649.0	10,168.4	7,385.0	53.2	54.3	-56.59	-2,819.9	752.8	479.4	389.7	89.75	5.341		
10,500.0	7,649.0	10,268.4	7,385.0	54.9	55.9	-56.59	-2,919.9	752.8	479.4	386.8	92.59	5.178		
10,600.0	7,649.0	10,368.4	7,385.0	56.6	57.6	-56.59	-3,019.9	752.8	479.4	384.0	95.43	5.023		
10,700.0	7,649.0	10,468.4	7,385.0	58.3	59.3	-56.59	-3,119.9	752.8	479.4	381.1	98.28	4.878		
10,800.0	7,649.0	10,568.4	7,385.0	60.0	60.9	-56.59	-3,219.9	752.7	479.4	378.3	101.13	4.740		
10,900.0	7,649.0	10,668.4	7,385.0	61.7	62.6	-56.58	-3,319.9	752.7	479.4	375.4	103.99	4.610		
11,000.0	7,649.0	10,768.4	7,385.0	63.4	64.3	-56.58	-3,419.9	752.7	479.4	372.5	106.85	4.486		
11,100.0	7,649.0	10,868.4	7,385.0	65.1	66.0	-56.58	-3,519.9	752.7	479.4	369.7	109.72	4.369		
11,200.0	7,649.0	10,968.4	7,385.0	66.8	67.7	-56.58	-3,619.9	752.7	479.4	366.8	112.59	4.258		
11,300.0	7,649.0	11,068.4	7,385.0	68.5	69.4	-56.58	-3,719.9	752.7	479.4	363.9	115.46	4.152		
11,400.0	7,649.0	11,168.4	7,385.0	70.2	71.1	-56.58	-3,819.9	752.7	479.4	361.0	118.33	4.051		
11,500.0	7,649.0	11,268.4	7,385.0	72.0	72.8	-56.58	-3,919.9	752.7	479.4	358.2	121.21	3.955		
11,600.0	7,649.0	11,368.4	7,385.0	73.7	74.5	-56.58	-4,019.9	752.7	479.4	355.3	124.09	3.863		
11,700.0	7,649.0	11,468.4	7,385.0	75.4	76.2	-56.58	-4,119.9	752.7	479.4	352.4	126.98	3.775		
11,800.0	7,649.0	11,568.4	7,385.0	77.1	77.9	-56.58	-4,219.9	752.7	479.4	349.5	129.86	3.691		
11,900.0	7,649.0	11,668.4	7,385.0	78.8	79.6	-56.58	-4,319.9	752.7	479.4	346.6	132.75	3.611		
12,000.0	7,649.0	11,768.4	7,385.0	80.6	81.3	-56.58	-4,419.9	752.6	479.4	343.7	135.64	3.534		
12,100.0	7,649.0	11,868.4	7,385.0	82.3	83.0	-56.58	-4,519.9	752.6	479.4	340.8	138.53	3.460		
12,167.7	7,649.0	11,936.1	7,385.0	83.5	84.1	-56.58	-4,587.6	752.6	479.3	338.9	140.49	3.412		
12,200.0	7,649.0	11,967.8	7,385.0	84.0	84.7	-56.58	-4,619.3	752.6	479.3	337.9	141.42	3.390		
12,202.8	7,649.0	11,967.8	7,385.0	84.1	84.7	-56.58	-4,619.3	752.6	479.4	337.9	141.46	3.389 SF		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1E-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	22.4	22.4	22.1	0.30	73.691		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	22.4	22.4	21.7	0.65	34.284		
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	22.4	22.4	21.4	1.00	22.338		
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	22.4	22.4	21.0	1.35	16.566 CC, ES		
500.0	500.0	499.2	499.2	0.8	0.9	89.29	0.3	24.1	24.1	22.4	1.70	14.168 SF		
600.0	600.0	598.2	598.0	1.0	1.0	87.58	1.2	29.1	29.2	27.2	2.06	14.210		
700.0	700.0	696.7	696.2	1.2	1.2	26.81	2.8	37.5	37.0	34.6	2.39	15.457		
800.0	800.0	794.8	793.6	1.4	1.5	26.47	4.9	49.1	46.6	43.9	2.74	17.015		
900.0	899.9	892.4	890.0	1.6	1.8	26.60	7.7	63.9	58.1	55.0	3.09	18.807		
1,000.0	999.7	989.4	985.2	1.7	2.1	26.97	11.0	81.8	71.3	67.9	3.44	20.746		
1,100.0	1,099.4	1,085.6	1,079.1	2.0	2.5	27.44	14.9	102.7	86.4	82.6	3.79	22.773		
1,200.0	1,198.9	1,182.2	1,172.5	2.2	2.9	27.95	19.3	126.5	103.0	98.8	4.15	24.792		
1,300.0	1,298.3	1,280.9	1,267.9	2.4	3.4	28.66	23.9	151.7	118.8	114.3	4.53	26.237		
1,400.0	1,397.4	1,379.8	1,363.5	2.7	3.9	29.56	28.6	176.8	133.2	128.3	4.92	27.079		
1,500.0	1,496.3	1,478.9	1,459.2	2.9	4.3	30.63	33.3	202.1	146.1	140.8	5.33	27.427		
1,600.0	1,594.9	1,578.2	1,555.1	3.2	4.8	31.85	38.0	227.3	157.6	151.8	5.76	27.358		
1,700.0	1,693.4	1,677.6	1,651.1	3.6	5.3	33.12	42.7	252.6	168.4	162.2	6.22	27.089		
1,800.0	1,791.9	1,776.9	1,747.0	3.9	5.8	34.23	47.3	277.9	179.3	172.6	6.69	26.809		
1,900.0	1,890.4	1,876.3	1,843.0	4.2	6.2	35.22	52.0	303.2	190.2	183.1	7.17	26.526		
2,000.0	1,988.9	1,975.6	1,939.0	4.5	6.7	36.10	56.7	328.5	201.2	193.6	7.67	26.248		
2,100.0	2,087.3	2,075.0	2,034.9	4.9	7.2	36.89	61.4	353.8	212.3	204.1	8.17	25.977		
2,200.0	2,185.8	2,174.3	2,130.9	5.2	7.7	37.60	66.1	379.0	223.3	214.7	8.68	25.717		
2,300.0	2,284.3	2,273.7	2,226.8	5.5	8.2	38.24	70.8	404.3	234.5	225.3	9.21	25.468		
2,400.0	2,382.8	2,373.0	2,322.8	5.9	8.7	38.83	75.5	429.6	245.6	235.9	9.73	25.232		
2,500.0	2,481.3	2,472.4	2,418.8	6.2	9.2	39.36	80.1	454.9	256.7	246.5	10.27	25.008		
2,600.0	2,579.7	2,571.7	2,514.7	6.5	9.7	39.85	84.8	480.2	267.9	257.1	10.80	24.797		
2,700.0	2,678.2	2,671.1	2,610.7	6.9	10.2	40.30	89.5	505.4	279.1	267.8	11.35	24.598		
2,800.0	2,776.7	2,770.4	2,706.7	7.2	10.7	40.72	94.2	530.7	290.3	278.4	11.89	24.410		
2,900.0	2,875.2	2,869.8	2,802.6	7.6	11.1	41.10	98.9	556.0	301.6	289.1	12.44	24.233		
3,000.0	2,973.7	2,969.1	2,898.6	7.9	11.6	41.47	103.6	581.3	312.9	299.9	12.99	24.081		
3,100.0	3,072.4	3,068.3	2,994.4	8.2	12.1	41.69	108.3	606.5	325.4	311.9	13.51	24.088		
3,200.0	3,171.5	3,167.4	3,090.1	8.5	12.6	41.72	112.9	631.7	339.2	325.2	13.98	24.261		
3,300.0	3,270.7	3,266.2	3,185.6	8.8	13.1	41.56	117.6	656.9	354.2	339.8	14.41	24.586		
3,400.0	3,370.1	3,364.8	3,280.8	9.0	13.6	41.26	122.2	682.0	370.6	355.8	14.79	25.053		
3,500.0	3,469.8	3,463.2	3,375.8	9.2	14.1	40.82	126.9	707.0	388.3	373.1	15.14	25.650		
3,600.0	3,569.5	3,561.2	3,470.5	9.4	14.6	40.29	131.5	732.0	407.3	391.9	15.44	26.372		
3,700.0	3,669.4	3,659.0	3,565.0	9.6	15.1	39.66	136.1	756.9	427.7	412.0	15.72	27.210		
3,800.0	3,769.3	3,756.4	3,659.0	9.8	15.5	38.98	140.7	781.6	449.5	433.5	15.96	28.161		
3,900.0	3,869.3	3,853.4	3,752.8	9.9	16.0	38.24	145.3	806.3	472.7	456.5	16.18	29.217		
4,000.0	3,969.3	3,950.1	3,846.1	10.0	16.5	36.91	149.8	830.9	497.2	480.8	16.37	30.366		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - Billings 1F-34H - 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	90.05	0.0	30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	30.8	30.8	30.5	0.30	101.325		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	30.8	30.8	30.1	0.65	47.140 CC, ES		
300.0	300.0	298.9	298.9	0.5	0.5	89.60	0.2	32.5	32.5	31.5	1.00	32.409		
400.0	400.0	397.6	397.4	0.7	0.7	88.50	1.0	37.5	37.6	36.2	1.36	27.617		
500.0	500.0	495.8	495.3	0.8	0.9	87.22	2.2	45.9	46.2	44.4	1.74	26.511 SF		
600.0	600.0	593.3	592.1	1.0	1.2	86.06	4.0	57.4	58.1	56.0	2.15	27.045		
700.0	700.0	690.0	687.7	1.2	1.5	25.85	6.2	72.1	72.7	70.3	2.38	30.496		
800.0	800.0	786.0	781.9	1.4	1.8	25.70	8.8	89.8	89.0	86.2	2.73	32.635		
900.0	899.9	881.1	874.7	1.6	2.2	25.86	11.9	110.5	107.0	103.9	3.07	34.855		
1,000.0	999.7	975.3	965.9	1.7	2.7	26.17	15.4	133.9	126.7	123.3	3.42	37.110		
1,100.0	1,099.4	1,072.1	1,058.9	2.0	3.2	26.61	19.3	160.2	147.3	143.5	3.77	39.074		
1,200.0	1,198.9	1,170.2	1,153.2	2.2	3.7	27.20	23.3	186.9	166.4	162.3	4.13	40.271		
1,300.0	1,298.3	1,268.6	1,247.8	2.4	4.2	27.92	27.3	213.8	184.1	179.6	4.51	40.852		
1,400.0	1,397.4	1,367.2	1,342.7	2.7	4.7	28.74	31.3	240.6	200.3	195.4	4.89	40.930		
1,500.0	1,496.3	1,466.1	1,437.7	2.9	5.2	29.66	35.4	267.6	215.0	209.7	5.30	40.590		
1,600.0	1,594.9	1,565.1	1,532.9	3.2	5.7	30.69	39.4	294.6	228.2	222.5	5.72	39.895		
1,700.0	1,693.4	1,664.2	1,628.1	3.6	6.2	31.77	43.4	321.6	240.9	234.7	6.17	39.057		
1,800.0	1,791.9	1,763.3	1,723.4	3.9	6.8	32.75	47.5	348.6	253.5	246.9	6.63	38.266		
1,900.0	1,890.4	1,862.4	1,818.7	4.2	7.3	33.63	51.5	375.6	266.3	259.2	7.10	37.524		
2,000.0	1,988.9	1,961.5	1,913.9	4.5	7.8	34.43	55.6	402.6	279.1	271.5	7.58	36.829		
2,100.0	2,087.3	2,060.6	2,009.2	4.9	8.3	35.16	59.6	429.7	292.0	283.9	8.07	36.180		
2,200.0	2,185.8	2,159.7	2,104.4	5.2	8.8	35.83	63.6	456.7	304.9	296.3	8.57	35.576		
2,300.0	2,284.3	2,258.8	2,199.7	5.5	9.4	36.44	67.7	483.7	317.8	308.7	9.08	35.013		
2,400.0	2,382.8	2,357.9	2,295.0	5.9	9.9	37.01	71.7	510.7	330.8	321.2	9.59	34.488		
2,500.0	2,481.3	2,457.0	2,390.2	6.2	10.4	37.53	75.7	537.7	343.8	333.7	10.11	34.000		
2,600.0	2,579.7	2,556.1	2,485.5	6.5	10.9	38.02	79.8	564.7	356.8	346.2	10.64	33.545		
2,700.0	2,678.2	2,655.2	2,580.8	6.9	11.4	38.47	83.8	591.8	369.9	358.7	11.17	33.121		
2,800.0	2,776.7	2,754.4	2,676.0	7.2	12.0	38.89	87.9	618.8	383.0	371.3	11.70	32.724		
2,900.0	2,875.2	2,853.5	2,771.3	7.6	12.5	39.28	91.9	645.8	396.1	383.8	12.24	32.354		
3,000.0	2,973.7	2,952.5	2,866.5	7.9	13.0	39.67	95.9	672.8	409.3	396.5	12.78	32.023		
3,100.0	3,072.4	3,051.5	2,961.7	8.2	13.5	39.96	100.0	699.8	423.7	410.4	13.29	31.875		
3,200.0	3,171.5	3,150.2	3,056.6	8.5	14.0	40.11	104.0	726.7	439.4	425.6	13.77	31.916		
3,300.0	3,270.7	3,248.8	3,151.3	8.8	14.6	40.11	108.0	753.6	456.4	442.2	14.21	32.131		
3,400.0	3,370.1	3,347.1	3,245.8	9.0	15.1	39.99	112.0	780.4	474.8	460.2	14.61	32.504		
3,500.0	3,469.8	3,445.1	3,340.0	9.2	15.6	39.77	116.0	807.1	494.4	479.5	14.97	33.025		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS													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		
10,600.0	7,649.0	7,628.0	7,628.0	56.6	13.3	-90.00	-3,443.1	596.2	488.3	418.8	69.56	7.020		
10,700.0	7,649.0	7,628.0	7,628.0	58.3	13.3	-90.00	-3,443.1	596.2	404.8	333.5	71.27	5.679		
10,800.0	7,649.0	7,628.0	7,628.0	60.0	13.3	-90.00	-3,443.1	596.2	330.4	257.5	72.98	4.528		
10,900.0	7,649.0	7,628.0	7,628.0	61.7	13.3	-90.00	-3,443.1	596.2	273.0	198.3	74.69	3.655		
11,000.0	7,649.0	7,628.0	7,628.0	63.4	13.3	-90.00	-3,443.1	596.2	244.7	168.3	76.41	3.203		
11,023.2	7,649.0	7,628.0	7,628.0	63.8	13.3	-90.00	-3,443.1	596.2	243.6	166.8	76.81	3.172	CC, ES, SF	
11,100.0	7,649.0	7,628.0	7,628.0	65.1	13.3	-90.00	-3,443.1	596.2	255.4	177.3	78.12	3.269		
11,200.0	7,649.0	7,628.0	7,628.0	66.8	13.3	-90.00	-3,443.1	596.2	301.0	221.1	79.84	3.770		
11,300.0	7,649.0	7,628.0	7,628.0	68.5	13.3	-90.00	-3,443.1	596.2	368.7	287.1	81.56	4.520		
11,400.0	7,649.0	7,628.0	7,628.0	70.2	13.3	-90.00	-3,443.1	596.2	448.7	365.4	83.29	5.387		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 S34-T2N-R68W (Billings) - PURITAN 6-4-34 (EXISTING) - Existing - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 78-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		
9,400.0	7,649.0	7,792.2	7,663.0	36.6	23.7	93.66	-2,260.2	228.1	457.7	401.7	55.97	8.178		
9,500.0	7,649.0	7,790.5	7,661.3	38.3	23.7	92.88	-2,260.2	228.1	362.5	304.9	57.63	6.290		
9,600.0	7,649.0	7,788.8	7,659.6	39.9	23.7	92.09	-2,260.3	228.1	270.8	211.5	59.30	4.567		
9,700.0	7,649.0	7,787.1	7,657.9	41.5	23.7	91.32	-2,260.3	228.1	187.7	126.8	60.96	3.080		
9,800.0	7,649.0	7,785.5	7,656.2	43.2	23.7	90.54	-2,260.3	228.0	131.0	68.4	62.63	2.092		
9,840.5	7,649.0	7,784.8	7,655.5	43.8	23.7	90.23	-2,260.3	228.0	124.6	61.3	63.30	1.968	CC, ES, SF	
9,900.0	7,649.0	7,783.8	7,654.5	44.8	23.7	89.77	-2,260.4	228.0	138.1	73.8	64.29	2.148		
10,000.0	7,649.0	7,782.1	7,652.8	46.5	23.7	89.01	-2,260.4	228.0	202.4	136.5	65.95	3.069		
10,100.0	7,649.0	7,780.5	7,651.2	48.2	23.7	88.25	-2,260.4	228.0	287.9	220.3	67.60	4.258		
10,200.0	7,649.0	7,778.8	7,649.5	49.8	23.7	87.49	-2,260.4	228.0	380.5	311.2	69.25	5.494		
10,300.0	7,649.0	7,777.2	7,647.9	51.5	23.7	86.74	-2,260.5	228.0	476.1	405.2	70.89	6.716		

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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>Offset Design</b> S34-T2N-R68W (Billings) - PURITAN 6-8-34 - DD - Plan #1													<b>Offset Site Error:</b> 0.0 ft
Survey Program: 0-MWD													<b>Offset Well Error:</b> 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
12,200.0	7,649.0	7,732.3	7,640.0	84.0	22.4	90.00	-5,030.6	274.2	418.1	315.1	103.09	4.056	
12,202.8	7,649.0	7,732.3	7,640.0	84.1	22.4	90.00	-5,030.6	274.2	415.4	312.3	103.13	4.028	CC, ES, SF

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1C-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Original Well Elev)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1C-34H	<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 @ 5008.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Billings 1C-34H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°

