

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Billings 1E-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site:	S34-T2N-R68W (Billings)	North Reference:	True
Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

Site		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 1E-34H					
Well Position	+N/-S	0.0 ft	Northing:	1,280,284.60 ft	Latitude:	40.101620
	+E/-W	0.0 ft	Easting:	3,143,929.72 ft	Longitude:	-104.985500
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,995.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/29/2013	8.74	66.72	52,778

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,150.0	15.00	79.50	1,141.5	17.8	96.0	2.00	2.00	0.00	79.50	
4,838.0	15.00	79.50	4,703.8	191.7	1,034.5	0.00	0.00	0.00	0.00	
5,588.0	0.00	0.00	5,445.3	209.5	1,130.5	2.00	-2.00	0.00	180.00	
7,075.5	0.00	0.00	6,932.8	209.5	1,130.5	0.00	0.00	0.00	0.00	
8,200.5	90.00	179.17	7,649.0	-506.6	1,140.9	8.00	8.00	0.00	179.17	
12,313.4	90.00	179.17	7,649.0	-4,619.0	1,200.3	0.00	0.00	0.00	0.00	Billings 1E-34H PBHL

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Site:	S34-T2N-R68W (Billings)	North Reference:	True
Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
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	KOP @ 400'
500.0	2.00	79.50	500.0	0.3	1.7	-0.3	2.00	2.00	
600.0	4.00	79.50	599.8	1.3	6.9	-1.3	2.00	2.00	
700.0	6.00	79.50	699.5	2.9	15.4	-2.9	2.00	2.00	
800.0	8.00	79.50	798.7	5.1	27.4	-5.1	2.00	2.00	
900.0	10.00	79.50	897.5	7.9	42.8	-7.9	2.00	2.00	
1,000.0	12.00	79.50	995.6	11.4	61.6	-11.4	2.00	2.00	
1,100.0	14.00	79.50	1,093.1	15.5	83.7	-15.5	2.00	2.00	
1,150.0	15.00	79.50	1,141.5	17.8	96.0	-17.8	2.00	2.00	EOB; Inc=15°
1,200.0	15.00	79.50	1,189.8	20.1	108.7	-20.1	0.00	0.00	
1,300.0	15.00	79.50	1,286.4	24.9	134.2	-24.9	0.00	0.00	
1,400.0	15.00	79.50	1,382.9	29.6	159.6	-29.6	0.00	0.00	
1,500.0	15.00	79.50	1,479.5	34.3	185.1	-34.3	0.00	0.00	
1,600.0	15.00	79.50	1,576.1	39.0	210.5	-39.0	0.00	0.00	
1,700.0	15.00	79.50	1,672.7	43.7	235.9	-43.7	0.00	0.00	
1,800.0	15.00	79.50	1,769.3	48.4	261.4	-48.4	0.00	0.00	
1,900.0	15.00	79.50	1,865.9	53.2	286.8	-53.2	0.00	0.00	
2,000.0	15.00	79.50	1,962.5	57.9	312.3	-57.9	0.00	0.00	
2,100.0	15.00	79.50	2,059.1	62.6	337.7	-62.6	0.00	0.00	
2,200.0	15.00	79.50	2,155.7	67.3	363.2	-67.3	0.00	0.00	
2,300.0	15.00	79.50	2,252.3	72.0	388.6	-72.0	0.00	0.00	
2,400.0	15.00	79.50	2,348.9	76.7	414.1	-76.7	0.00	0.00	
2,500.0	15.00	79.50	2,445.5	81.5	439.5	-81.5	0.00	0.00	
2,600.0	15.00	79.50	2,542.1	86.2	465.0	-86.2	0.00	0.00	
2,700.0	15.00	79.50	2,638.6	90.9	490.4	-90.9	0.00	0.00	
2,800.0	15.00	79.50	2,735.2	95.6	515.9	-95.6	0.00	0.00	
2,900.0	15.00	79.50	2,831.8	100.3	541.3	-100.3	0.00	0.00	
3,000.0	15.00	79.50	2,928.4	105.0	566.8	-105.0	0.00	0.00	
3,100.0	15.00	79.50	3,025.0	109.8	592.2	-109.8	0.00	0.00	
3,200.0	15.00	79.50	3,121.6	114.5	617.7	-114.5	0.00	0.00	
3,300.0	15.00	79.50	3,218.2	119.2	643.1	-119.2	0.00	0.00	
3,400.0	15.00	79.50	3,314.8	123.9	668.6	-123.9	0.00	0.00	
3,500.0	15.00	79.50	3,411.4	128.6	694.0	-128.6	0.00	0.00	
3,600.0	15.00	79.50	3,508.0	133.3	719.5	-133.3	0.00	0.00	
3,700.0	15.00	79.50	3,604.6	138.1	744.9	-138.1	0.00	0.00	
3,800.0	15.00	79.50	3,701.2	142.8	770.4	-142.8	0.00	0.00	
3,900.0	15.00	79.50	3,797.8	147.5	795.8	-147.5	0.00	0.00	
4,000.0	15.00	79.50	3,894.4	152.2	821.3	-152.2	0.00	0.00	
4,100.0	15.00	79.50	3,990.9	156.9	846.7	-156.9	0.00	0.00	
4,200.0	15.00	79.50	4,087.5	161.6	872.2	-161.6	0.00	0.00	
4,300.0	15.00	79.50	4,184.1	166.4	897.6	-166.4	0.00	0.00	
4,400.0	15.00	79.50	4,280.7	171.1	923.1	-171.1	0.00	0.00	
4,500.0	15.00	79.50	4,377.3	175.8	948.5	-175.8	0.00	0.00	
4,569.0	15.00	79.50	4,444.0	179.1	966.1	-179.1	0.00	0.00	Sussex
4,600.0	15.00	79.50	4,473.9	180.5	974.0	-180.5	0.00	0.00	
4,700.0	15.00	79.50	4,570.5	185.2	999.4	-185.2	0.00	0.00	
4,800.0	15.00	79.50	4,667.1	189.9	1,024.9	-189.9	0.00	0.00	

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Site:	S34-T2N-R68W (Billings)	North Reference:	True
Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,838.0	15.00	79.50	4,703.8	191.7	1,034.5	-191.7	0.00	0.00	Start Drop -2.00
4,848.6	14.79	79.50	4,714.0	192.2	1,037.2	-192.2	2.00	-2.00	Sussex Marker
4,900.0	13.76	79.50	4,763.9	194.5	1,049.7	-194.5	2.00	-2.00	
5,000.0	11.76	79.50	4,861.4	198.6	1,071.4	-198.6	2.00	-2.00	
5,100.0	9.76	79.50	4,959.6	202.0	1,089.7	-202.0	2.00	-2.00	
5,139.9	8.96	79.50	4,999.0	203.2	1,096.1	-203.2	2.00	-2.00	Shannon
5,200.0	7.76	79.50	5,058.4	204.7	1,104.7	-204.7	2.00	-2.00	
5,300.0	5.76	79.50	5,157.7	206.9	1,116.3	-206.9	2.00	-2.00	
5,400.0	3.76	79.50	5,257.4	208.4	1,124.4	-208.4	2.00	-2.00	
5,500.0	1.76	79.50	5,357.3	209.3	1,129.2	-209.3	2.00	-2.00	
5,588.0	0.00	0.00	5,445.3	209.5	1,130.5	-209.5	2.00	-2.00	EOD; Inc=0°
5,600.0	0.00	0.00	5,457.3	209.5	1,130.5	-209.5	0.00	0.00	
5,700.0	0.00	0.00	5,557.3	209.5	1,130.5	-209.5	0.00	0.00	
5,800.0	0.00	0.00	5,657.3	209.5	1,130.5	-209.5	0.00	0.00	
5,900.0	0.00	0.00	5,757.3	209.5	1,130.5	-209.5	0.00	0.00	
6,000.0	0.00	0.00	5,857.3	209.5	1,130.5	-209.5	0.00	0.00	
6,100.0	0.00	0.00	5,957.3	209.5	1,130.5	-209.5	0.00	0.00	
6,200.0	0.00	0.00	6,057.3	209.5	1,130.5	-209.5	0.00	0.00	
6,300.0	0.00	0.00	6,157.3	209.5	1,130.5	-209.5	0.00	0.00	
6,400.0	0.00	0.00	6,257.3	209.5	1,130.5	-209.5	0.00	0.00	
6,500.0	0.00	0.00	6,357.3	209.5	1,130.5	-209.5	0.00	0.00	
6,600.0	0.00	0.00	6,457.3	209.5	1,130.5	-209.5	0.00	0.00	
6,700.0	0.00	0.00	6,557.3	209.5	1,130.5	-209.5	0.00	0.00	
6,732.7	0.00	0.00	6,590.0	209.5	1,130.5	-209.5	0.00	0.00	Teepee Buttes
6,800.0	0.00	0.00	6,657.3	209.5	1,130.5	-209.5	0.00	0.00	
6,900.0	0.00	0.00	6,757.3	209.5	1,130.5	-209.5	0.00	0.00	
7,000.0	0.00	0.00	6,857.3	209.5	1,130.5	-209.5	0.00	0.00	
7,075.5	0.00	0.00	6,932.8	209.5	1,130.5	-209.5	0.00	0.00	Start Build 8.00
7,100.0	1.96	179.17	6,957.3	209.1	1,130.5	-209.1	8.00	8.00	
7,200.0	9.96	179.17	7,056.6	198.7	1,130.7	-198.7	8.00	8.00	
7,300.0	17.96	179.17	7,153.6	174.6	1,131.0	-174.6	8.00	8.00	
7,400.0	25.96	179.17	7,246.3	137.3	1,131.5	-137.3	8.00	8.00	
7,449.5	29.92	179.17	7,290.0	114.1	1,131.9	-114.1	8.00	8.00	Sharon Springs
7,500.0	33.96	179.17	7,332.8	87.4	1,132.3	-87.4	8.00	8.00	
7,539.5	37.12	179.17	7,365.0	64.4	1,132.6	-64.4	8.00	8.00	Niobrara
7,600.0	41.96	179.17	7,411.6	26.0	1,133.2	-26.0	8.00	8.00	
7,634.9	44.75	179.17	7,437.0	2.0	1,133.5	-2.0	8.00	8.00	B Chalk
7,700.0	49.96	179.17	7,481.1	-45.9	1,134.2	45.9	8.00	8.00	
7,723.6	51.85	179.17	7,496.0	-64.2	1,134.5	64.2	8.00	8.00	Ft. Hayes
7,800.0	57.96	179.17	7,539.9	-126.6	1,135.4	126.6	8.00	8.00	
7,900.0	65.96	179.17	7,586.9	-214.8	1,136.6	214.8	8.00	8.00	
8,000.0	73.96	179.17	7,621.1	-308.7	1,138.0	308.7	8.00	8.00	
8,080.7	80.41	179.17	7,639.0	-387.3	1,139.1	387.3	8.00	8.00	Codell
8,100.0	81.96	179.17	7,642.0	-406.4	1,139.4	406.4	8.00	8.00	
8,200.0	89.96	179.17	7,649.0	-506.1	1,140.8	506.1	8.00	8.00	
8,200.5	90.00	179.17	7,649.0	-506.6	1,140.9	506.6	8.00	8.00	LP @ 7649' TVD; 90°
8,300.0	90.00	179.17	7,649.0	-606.0	1,142.3	606.0	0.00	0.00	
8,400.0	90.00	179.17	7,649.0	-706.0	1,143.7	706.0	0.00	0.00	
8,500.0	90.00	179.17	7,649.0	-806.0	1,145.2	806.0	0.00	0.00	
8,600.0	90.00	179.17	7,649.0	-906.0	1,146.6	906.0	0.00	0.00	
8,700.0	90.00	179.17	7,649.0	-1,006.0	1,148.1	1,006.0	0.00	0.00	
8,800.0	90.00	179.17	7,649.0	-1,106.0	1,149.5	1,106.0	0.00	0.00	

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Project:	DJ Wattenberg	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site:	S34-T2N-R68W (Billings)	North Reference:	True
Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
8,900.0	90.00	179.17	7,649.0	-1,206.0	1,151.0	1,206.0	0.00	0.00	
9,000.0	90.00	179.17	7,649.0	-1,306.0	1,152.4	1,306.0	0.00	0.00	
9,100.0	90.00	179.17	7,649.0	-1,406.0	1,153.9	1,406.0	0.00	0.00	
9,200.0	90.00	179.17	7,649.0	-1,505.9	1,155.3	1,505.9	0.00	0.00	
9,300.0	90.00	179.17	7,649.0	-1,605.9	1,156.7	1,605.9	0.00	0.00	
9,400.0	90.00	179.17	7,649.0	-1,705.9	1,158.2	1,705.9	0.00	0.00	
9,500.0	90.00	179.17	7,649.0	-1,805.9	1,159.6	1,805.9	0.00	0.00	
9,600.0	90.00	179.17	7,649.0	-1,905.9	1,161.1	1,905.9	0.00	0.00	
9,700.0	90.00	179.17	7,649.0	-2,005.9	1,162.5	2,005.9	0.00	0.00	
9,800.0	90.00	179.17	7,649.0	-2,105.9	1,164.0	2,105.9	0.00	0.00	
9,900.0	90.00	179.17	7,649.0	-2,205.9	1,165.4	2,205.9	0.00	0.00	
10,000.0	90.00	179.17	7,649.0	-2,305.9	1,166.9	2,305.9	0.00	0.00	
10,100.0	90.00	179.17	7,649.0	-2,405.9	1,168.3	2,405.9	0.00	0.00	
10,200.0	90.00	179.17	7,649.0	-2,505.8	1,169.8	2,505.8	0.00	0.00	
10,300.0	90.00	179.17	7,649.0	-2,605.8	1,171.2	2,605.8	0.00	0.00	
10,400.0	90.00	179.17	7,649.0	-2,705.8	1,172.6	2,705.8	0.00	0.00	
10,500.0	90.00	179.17	7,649.0	-2,805.8	1,174.1	2,805.8	0.00	0.00	
10,600.0	90.00	179.17	7,649.0	-2,905.8	1,175.5	2,905.8	0.00	0.00	
10,700.0	90.00	179.17	7,649.0	-3,005.8	1,177.0	3,005.8	0.00	0.00	
10,800.0	90.00	179.17	7,649.0	-3,105.8	1,178.4	3,105.8	0.00	0.00	
10,900.0	90.00	179.17	7,649.0	-3,205.8	1,179.9	3,205.8	0.00	0.00	
11,000.0	90.00	179.17	7,649.0	-3,305.8	1,181.3	3,305.8	0.00	0.00	
11,100.0	90.00	179.17	7,649.0	-3,405.7	1,182.8	3,405.7	0.00	0.00	
11,200.0	90.00	179.17	7,649.0	-3,505.7	1,184.2	3,505.7	0.00	0.00	
11,300.0	90.00	179.17	7,649.0	-3,605.7	1,185.7	3,605.7	0.00	0.00	
11,400.0	90.00	179.17	7,649.0	-3,705.7	1,187.1	3,705.7	0.00	0.00	
11,500.0	90.00	179.17	7,649.0	-3,805.7	1,188.5	3,805.7	0.00	0.00	
11,600.0	90.00	179.17	7,649.0	-3,905.7	1,190.0	3,905.7	0.00	0.00	
11,700.0	90.00	179.17	7,649.0	-4,005.7	1,191.4	4,005.7	0.00	0.00	
11,800.0	90.00	179.17	7,649.0	-4,105.7	1,192.9	4,105.7	0.00	0.00	
11,900.0	90.00	179.17	7,649.0	-4,205.7	1,194.3	4,205.7	0.00	0.00	
12,000.0	90.00	179.17	7,649.0	-4,305.7	1,195.8	4,305.7	0.00	0.00	
12,100.0	90.00	179.17	7,649.0	-4,405.6	1,197.2	4,405.6	0.00	0.00	
12,200.0	90.00	179.17	7,649.0	-4,505.6	1,198.7	4,505.6	0.00	0.00	
12,300.0	90.00	179.17	7,649.0	-4,605.6	1,200.1	4,605.6	0.00	0.00	
12,312.4	90.00	179.17	7,649.0	-4,618.0	1,200.3	4,618.0	0.00	0.00	Billings 1E-34H PBHL
12,313.4	90.00	179.17	7,649.0	-4,619.0	1,200.3	4,619.0	0.00	0.00	TD at 12313.4 - Billings 1E-34H PBHL NEW

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 1E-34H PBHL	0.00	0.00	7,649.0	-4,619.0	1,130.3	1,275,672.25	3,145,086.85	40.088940	-104.981460
- plan misses target center by 69.9ft at 12312.4ft MD (7649.0 TVD, -4618.0 N, 1200.3 E)									
- Point									
Billings 1E-34H PBHL N	0.00	0.00	7,649.0	-4,619.0	1,200.3	1,275,672.65	3,145,156.80	40.088940	-104.981210
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Billings 1E-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site:	S34-T2N-R68W (Billings)	North Reference:	True
Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
358.0	358.0	Fox Hills				
4,569.0	4,444.0	Sussex				
4,848.6	4,714.0	Sussex Marker				
5,139.9	4,999.0	Shannon				
6,732.7	6,590.0	Teepee Buttes				
7,449.5	7,290.0	Sharon Springs				
7,539.5	7,365.0	Niobrara				
7,634.9	7,437.0	B Chalk				
7,723.6	7,496.0	Ft. Hayes				
8,080.7	7,639.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
1,150.0	1,141.5	17.8	96.0	EOB; Inc=15°	
4,838.0	4,703.8	191.7	1,034.5	Start Drop -2.00	
5,588.0	5,445.3	209.5	1,130.5	EOD; Inc=0°	
7,075.5	6,932.8	209.5	1,130.5	Start Build 8.00	
8,200.5	7,649.0	-506.6	1,140.9	LP @ 7649' TVD; 90°	
12,313.4	7,649.0	-4,619.0	1,200.3	TD at 12313.4	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T2N-R68W (Billings)

Billings 1E-34H

Hz

Plan #1

Anticollision Report

30 January, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	1/29/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	12,313.4	Plan #1 (Hz)	MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
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						Out of range
Billings 1A-34H - Hz - Plan #1	200.0	200.0	42.0	41.3	64.282	CC, ES
Billings 1A-34H - Hz - Plan #1	500.0	497.5	51.3	49.6	30.229	SF
Billings 1B-34H - Hz - Plan #1	400.0	400.0	30.8	29.4	22.778	CC, ES
Billings 1B-34H - Hz - Plan #1	600.0	599.6	38.3	36.3	18.698	SF
Billings 1C-34H - Hz - Plan #1	400.0	400.0	22.4	21.0	16.566	CC, ES
Billings 1C-34H - Hz - Plan #1	500.0	500.0	24.1	22.4	14.180	SF
Billings 1D-34H - Hz - Plan #1	400.0	400.0	11.2	9.8	8.283	CC, ES
Billings 1D-34H - Hz - Plan #1	500.0	500.0	12.9	11.2	7.597	SF
Billings 1F-34H - Hz - Plan #1	200.0	200.0	8.4	7.7	12.856	CC, ES
Billings 1F-34H - Hz - Plan #1	12,313.4	12,075.5	421.4	288.4	3.168	SF
BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS						Out of range
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	7,989.7	7,693.8	105.6	74.5	3.402	CC, ES, SF
BILLINGS 42-34 (EXISTING) - Existing - NO SURVEYS	9,565.6	7,623.0	182.3	131.7	3.603	CC, ES, SF
BILLINGS 8-4-34 (was Billings 7-4-34) - DD - Plan #1	10,376.6	8,028.8	346.9	275.0	4.828	CC, ES
BILLINGS 8-4-34 (was Billings 7-4-34) - DD - Plan #1	10,400.0	8,028.8	347.7	275.4	4.812	SF
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	12,253.9	7,652.2	152.6	55.0	1.564	CC, ES, SF
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						Out of range
PURITAN 6-8-34 - DD - Plan #1						Out of range
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

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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		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)			
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-42.0	42.0				
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-42.0	42.0	41.7	0.30	138.170	
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-42.0	42.0	41.3	0.65	64.282 CC, ES	
300.0	300.0	299.3	299.3	0.5	0.5	-89.68	0.2	-42.8	42.8	41.8	1.00	42.738	
400.0	400.0	398.5	398.5	0.7	0.7	-88.91	0.9	-45.3	45.3	44.0	1.35	33.471	
500.0	500.0	497.5	497.4	0.9	0.9	-167.70	1.9	-49.5	51.3	49.6	1.70	30.229 SF	
600.0	599.8	595.9	595.6	1.0	1.1	-167.50	3.3	-55.2	62.3	60.2	2.04	30.510	
700.0	699.5	693.5	692.9	1.3	1.3	-167.63	5.2	-62.6	78.3	75.9	2.38	32.851	
800.0	798.7	789.8	788.7	1.5	1.5	-167.89	7.4	-71.4	99.3	96.6	2.72	36.465	
900.0	897.5	884.5	882.9	1.8	1.7	-168.17	9.9	-81.6	125.2	122.2	3.06	40.922	
1,000.0	995.6	977.5	975.1	2.2	2.0	-168.43	12.8	-93.1	156.0	152.6	3.39	45.963	
1,100.0	1,093.1	1,068.3	1,065.0	2.6	2.2	-168.64	15.9	-105.7	191.4	187.7	3.72	51.426	
1,200.0	1,189.8	1,156.9	1,152.5	3.0	2.5	-168.87	19.3	-119.3	231.1	227.0	4.06	56.956	
1,300.0	1,286.4	1,246.3	1,240.5	3.5	2.8	-169.04	23.0	-134.2	272.3	267.9	4.40	61.822	
1,400.0	1,382.9	1,337.3	1,330.2	3.9	3.1	-169.17	26.9	-149.6	313.6	308.9	4.76	65.958	
1,500.0	1,479.5	1,428.4	1,419.8	4.4	3.4	-169.26	30.7	-164.9	355.0	349.9	5.11	69.512	
1,600.0	1,576.1	1,519.4	1,509.5	4.9	3.7	-169.34	34.5	-180.2	396.4	390.9	5.46	72.599	
1,700.0	1,672.7	1,610.4	1,599.1	5.4	4.1	-169.40	38.3	-195.6	437.8	432.0	5.81	75.303	
1,800.0	1,769.3	1,701.5	1,688.8	5.9	4.4	-169.45	42.2	-210.9	479.2	473.0	6.17	77.692	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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		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	-89.95	0.0	-30.8	30.8					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-30.8	30.8	30.5	0.30	101.325		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-30.8	30.8	30.1	0.65	47.140		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-30.8	30.8	29.8	1.00	30.715		
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	0.0	-30.8	30.8	29.4	1.35	22.778 CC, ES		
500.0	500.0	499.9	499.9	0.9	0.9	-168.50	0.9	-30.9	32.7	31.0	1.70	19.210		
600.0	599.8	599.6	599.5	1.0	1.0	-166.22	3.4	-31.4	38.3	36.3	2.05	18.698 SF		
700.0	699.5	698.9	698.7	1.3	1.2	-163.61	7.7	-32.2	47.9	45.5	2.41	19.900		
800.0	798.7	797.7	797.3	1.5	1.4	-161.30	13.6	-33.3	61.3	58.6	2.77	22.117		
900.0	897.5	895.7	895.1	1.8	1.6	-159.47	21.1	-34.7	78.7	75.5	3.16	24.926		
1,000.0	995.6	992.9	991.8	2.2	1.8	-158.06	30.2	-36.4	99.8	96.3	3.56	28.051		
1,100.0	1,093.1	1,089.0	1,087.4	2.6	2.1	-156.97	40.7	-38.4	124.8	120.8	3.99	31.303		
1,200.0	1,189.8	1,184.0	1,181.6	3.0	2.3	-156.17	52.7	-40.6	153.0	148.6	4.44	34.432		
1,300.0	1,286.4	1,279.5	1,276.1	3.5	2.6	-155.43	65.7	-43.1	182.1	177.2	4.93	36.943		
1,400.0	1,382.9	1,375.1	1,370.8	3.9	2.8	-154.89	78.8	-45.5	211.3	205.9	5.43	38.934		
1,500.0	1,479.5	1,470.8	1,465.6	4.4	3.1	-154.48	91.9	-48.0	240.4	234.5	5.93	40.544		
1,600.0	1,576.1	1,566.4	1,560.3	4.9	3.4	-154.16	105.0	-50.4	269.6	263.1	6.44	41.866		
1,700.0	1,672.7	1,662.1	1,655.0	5.4	3.6	-153.90	118.0	-52.9	298.7	291.8	6.95	42.968		
1,800.0	1,769.3	1,757.7	1,749.7	5.9	3.9	-153.69	131.1	-55.3	327.9	320.4	7.47	43.898		
1,900.0	1,865.9	1,853.4	1,844.4	6.4	4.2	-153.51	144.2	-57.8	357.1	349.1	7.99	44.692		
2,000.0	1,962.5	1,949.9	1,940.0	6.9	4.5	-153.37	157.3	-60.2	386.2	377.7	8.51	45.384		
2,100.0	2,059.1	2,048.7	2,038.1	7.3	4.7	-153.42	169.5	-62.5	414.8	405.8	9.01	46.019		
2,200.0	2,155.7	2,147.9	2,136.7	7.8	5.0	-153.66	180.1	-64.5	442.7	433.2	9.49	46.633		
2,300.0	2,252.3	2,247.5	2,235.9	8.3	5.2	-154.08	189.0	-66.1	469.9	459.9	9.95	47.242		
2,400.0	2,348.9	2,347.4	2,335.5	8.8	5.4	-154.63	196.2	-67.5	496.4	486.0	10.37	47.859		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R68W (Billings) - Billings 1C-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	-89.96	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-22.4	22.4	22.1	0.30	73.691		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-22.4	22.4	21.7	0.65	34.284		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-22.4	22.4	21.4	1.00	22.338		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-22.4	22.4	21.0	1.35	16.566 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-170.21	0.0	-22.4	24.1	22.4	1.70	14.180 SF		
600.0	599.8	599.8	599.8	1.0	1.0	-171.94	0.0	-22.4	29.3	27.2	2.05	14.303		
700.0	699.5	700.0	700.0	1.3	1.2	-173.18	0.5	-21.6	37.1	34.7	2.39	15.527		
800.0	798.7	800.2	800.2	1.5	1.4	-173.49	1.8	-19.4	46.9	44.2	2.74	17.145		
900.0	897.5	900.3	900.2	1.8	1.6	-173.29	4.0	-15.6	58.6	55.5	3.08	19.019		
1,000.0	995.6	1,000.4	1,000.1	2.2	1.8	-172.86	7.1	-10.3	72.1	68.7	3.43	21.064		
1,100.0	1,093.1	1,100.5	1,099.8	2.6	2.0	-172.31	11.1	-3.6	87.6	83.8	3.77	23.222		
1,200.0	1,189.8	1,200.5	1,199.4	3.0	2.2	-171.72	16.0	4.7	104.5	100.4	4.13	25.286		
1,300.0	1,286.4	1,301.0	1,299.2	3.5	2.4	-170.94	21.8	14.5	120.4	115.8	4.52	26.656		
1,400.0	1,382.9	1,401.9	1,399.3	3.9	2.7	-169.96	28.4	25.9	134.7	129.8	4.91	27.419		
1,500.0	1,479.5	1,503.2	1,499.4	4.4	2.9	-168.83	36.1	38.8	147.6	142.2	5.33	27.682		
1,600.0	1,576.1	1,604.6	1,599.5	4.9	3.3	-167.53	44.6	53.3	159.0	153.2	5.78	27.530		
1,700.0	1,672.7	1,704.0	1,697.3	5.4	3.6	-166.28	53.4	68.2	169.8	163.6	6.24	27.238		
1,800.0	1,769.3	1,803.3	1,795.2	5.9	3.9	-165.18	62.1	83.0	180.7	174.0	6.71	26.940		
1,900.0	1,865.9	1,902.7	1,893.0	6.4	4.2	-164.21	70.9	97.9	191.7	184.5	7.20	26.642		
2,000.0	1,962.5	2,002.0	1,990.9	6.9	4.5	-163.34	79.6	112.8	202.7	195.0	7.69	26.350		
2,100.0	2,059.1	2,101.4	2,088.7	7.3	4.9	-162.57	88.4	127.6	213.7	205.5	8.20	26.069		
2,200.0	2,155.7	2,200.7	2,186.5	7.8	5.2	-161.87	97.1	142.5	224.8	216.1	8.71	25.799		
2,300.0	2,252.3	2,300.1	2,284.4	8.3	5.5	-161.23	105.9	157.4	235.9	226.7	9.24	25.543		
2,400.0	2,348.9	2,399.4	2,382.2	8.8	5.9	-160.65	114.7	172.2	247.1	237.3	9.77	25.300		
2,500.0	2,445.5	2,498.8	2,480.1	9.3	6.2	-160.12	123.4	187.1	258.2	247.9	10.30	25.070		
2,600.0	2,542.1	2,598.1	2,577.9	9.8	6.5	-159.64	132.2	202.0	269.4	258.6	10.84	24.854		
2,700.0	2,638.6	2,697.5	2,675.7	10.3	6.9	-159.19	140.9	216.8	280.6	269.2	11.38	24.650		
2,800.0	2,735.2	2,796.8	2,773.6	10.8	7.2	-158.78	149.7	231.7	291.8	279.9	11.93	24.459		
2,900.0	2,831.8	2,896.2	2,871.4	11.3	7.6	-158.40	158.4	246.6	303.0	290.6	12.48	24.278		
3,000.0	2,928.4	2,993.9	2,967.7	11.8	7.9	-158.07	167.0	261.1	314.4	301.4	13.03	24.134		
3,100.0	3,025.0	3,089.2	3,061.7	12.3	8.2	-157.92	174.7	274.1	326.8	313.2	13.53	24.155		
3,200.0	3,121.6	3,184.1	3,155.7	12.8	8.5	-157.96	181.5	285.7	340.3	326.4	13.99	24.334		
3,300.0	3,218.2	3,278.7	3,249.6	13.3	8.7	-158.17	187.6	296.0	355.2	340.8	14.41	24.656		
3,400.0	3,314.8	3,372.9	3,343.2	13.8	9.0	-158.52	192.8	304.9	371.2	356.4	14.78	25.110		
3,500.0	3,411.4	3,466.6	3,436.5	14.3	9.2	-159.00	197.2	312.4	388.5	373.4	15.12	25.688		
3,600.0	3,508.0	3,559.9	3,529.5	14.8	9.4	-159.57	200.9	318.6	407.1	391.6	15.43	26.380		
3,700.0	3,604.6	3,652.6	3,622.0	15.3	9.5	-160.22	203.7	323.5	426.9	411.2	15.71	27.179		
3,800.0	3,701.2	3,744.7	3,714.0	15.8	9.7	-160.94	205.8	327.0	448.0	432.0	15.95	28.080		
3,900.0	3,797.8	3,836.2	3,805.5	16.3	9.8	-161.70	207.2	329.3	470.4	454.2	16.18	29.074		
4,000.0	3,894.4	3,927.0	3,896.3	16.7	9.9	-162.50	207.8	330.3	494.1	477.7	16.39	30.156		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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		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	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	36.845		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.5	0.65	17.142		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	1.00	11.169		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-11.2	11.2	9.8	1.35	8.283 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-170.87	0.0	-11.2	12.9	11.2	1.70	7.597 SF		
600.0	599.8	599.8	599.8	1.0	1.0	-173.49	0.0	-11.2	18.1	16.0	2.05	8.844		
700.0	699.5	699.9	699.9	1.3	1.2	-175.28	0.2	-10.4	25.9	23.5	2.39	10.839		
800.0	798.7	800.0	799.9	1.5	1.4	-176.16	1.0	-7.8	35.5	32.8	2.73	12.985		
900.0	897.5	900.0	899.9	1.8	1.6	-176.60	2.1	-3.6	46.8	43.8	3.08	15.234		
1,000.0	995.6	1,000.1	999.8	2.2	1.7	-176.80	3.8	2.3	59.9	56.5	3.41	17.558		
1,100.0	1,093.1	1,100.1	1,099.5	2.6	2.0	-176.88	5.9	9.8	74.8	71.0	3.75	19.939		
1,200.0	1,189.8	1,200.3	1,199.2	3.0	2.2	-176.87	8.5	19.1	90.9	86.8	4.09	22.206		
1,300.0	1,286.4	1,300.9	1,299.1	3.5	2.4	-176.75	11.6	30.0	105.7	101.3	4.45	23.774		
1,400.0	1,382.9	1,402.0	1,399.3	3.9	2.7	-176.54	15.2	42.8	118.9	114.1	4.81	24.737		
1,500.0	1,479.5	1,503.5	1,499.7	4.4	2.9	-176.24	19.2	57.2	130.3	125.1	5.17	25.216		
1,600.0	1,576.1	1,605.3	1,600.1	4.9	3.3	-175.88	23.8	73.5	139.9	134.4	5.53	25.302		
1,700.0	1,672.7	1,704.9	1,698.2	5.4	3.6	-175.52	28.5	90.1	148.8	142.9	5.89	25.253		
1,800.0	1,769.3	1,804.5	1,796.3	5.9	3.9	-175.20	33.2	106.8	157.7	151.4	6.26	25.203		
1,900.0	1,865.9	1,904.1	1,894.4	6.4	4.2	-174.91	37.9	123.4	166.6	160.0	6.62	25.154		
2,000.0	1,962.5	2,003.7	1,992.5	6.9	4.5	-174.65	42.5	140.1	175.5	168.5	6.99	25.106		
2,100.0	2,059.1	2,103.3	2,090.6	7.3	4.9	-174.42	47.2	156.7	184.4	177.0	7.36	25.059		
2,200.0	2,155.7	2,202.9	2,188.6	7.8	5.2	-174.21	51.9	173.4	193.3	185.5	7.73	25.013		
2,300.0	2,252.3	2,302.5	2,286.7	8.3	5.5	-174.02	56.6	190.0	202.2	194.1	8.10	24.968		
2,400.0	2,348.9	2,402.1	2,384.8	8.8	5.9	-173.84	61.3	206.7	211.1	202.6	8.47	24.924		
2,500.0	2,445.5	2,501.7	2,482.9	9.3	6.2	-173.68	65.9	223.3	220.0	211.1	8.84	24.882		
2,600.0	2,542.1	2,601.3	2,581.0	9.8	6.6	-173.53	70.6	240.0	228.9	219.7	9.21	24.841		
2,700.0	2,638.6	2,700.9	2,679.1	10.3	6.9	-173.39	75.3	256.6	237.8	228.2	9.59	24.802		
2,800.0	2,735.2	2,800.5	2,777.2	10.8	7.2	-173.26	80.0	273.3	246.7	236.7	9.96	24.763		
2,900.0	2,831.8	2,900.1	2,875.3	11.3	7.6	-173.14	84.7	289.9	255.6	245.3	10.34	24.727		
3,000.0	2,928.4	2,999.7	2,973.3	11.8	7.9	-173.03	89.3	306.6	264.5	253.8	10.71	24.691		
3,100.0	3,025.0	3,099.3	3,071.4	12.3	8.3	-172.93	94.0	323.2	273.4	262.3	11.09	24.657		
3,200.0	3,121.6	3,198.9	3,169.5	12.8	8.6	-172.83	98.7	339.9	282.3	270.9	11.47	24.624		
3,300.0	3,218.2	3,298.5	3,267.6	13.3	9.0	-172.74	103.4	356.5	291.2	279.4	11.84	24.593		
3,400.0	3,314.8	3,398.1	3,365.7	13.8	9.3	-172.65	108.1	373.2	300.2	287.9	12.22	24.562		
3,500.0	3,411.4	3,497.7	3,463.8	14.3	9.7	-172.57	112.7	389.8	309.1	296.5	12.60	24.532		
3,600.0	3,508.0	3,597.3	3,561.9	14.8	10.0	-172.49	117.4	406.5	318.0	305.0	12.98	24.504		
3,700.0	3,604.6	3,696.9	3,660.0	15.3	10.4	-172.42	122.1	423.1	326.9	313.5	13.36	24.477		
3,800.0	3,701.2	3,796.5	3,758.0	15.8	10.7	-172.35	126.8	439.8	335.8	322.1	13.73	24.450		
3,900.0	3,797.8	3,896.1	3,856.1	16.3	11.1	-172.29	131.5	456.4	344.7	330.6	14.11	24.425		
4,000.0	3,894.4	3,995.7	3,954.2	16.7	11.4	-172.23	136.1	473.1	353.6	339.2	14.49	24.400		
4,100.0	3,990.9	4,095.3	4,052.3	17.2	11.8	-172.17	140.8	489.7	362.6	347.7	14.87	24.376		
4,200.0	4,087.5	4,194.9	4,150.4	17.7	12.1	-172.11	145.5	506.4	371.5	356.2	15.25	24.353		
4,300.0	4,184.1	4,294.5	4,248.5	18.2	12.5	-172.06	150.2	523.0	380.4	364.8	15.63	24.331		
4,400.0	4,280.7	4,394.1	4,346.6	18.7	12.8	-172.01	154.9	539.7	389.3	373.3	16.01	24.310		
4,500.0	4,377.3	4,493.7	4,444.7	19.2	13.2	-171.96	159.5	556.3	398.2	381.8	16.40	24.289		
4,600.0	4,473.9	4,593.3	4,542.7	19.7	13.5	-171.91	164.2	573.0	407.2	390.4	16.78	24.269		
4,700.0	4,570.5	4,692.9	4,640.8	20.2	13.8	-171.87	168.9	589.6	416.1	398.9	17.16	24.250		
4,800.0	4,667.1	4,792.5	4,738.9	20.7	14.2	-171.83	173.6	606.3	425.0	407.5	17.54	24.231		
4,900.0	4,763.9	4,892.1	4,837.1	21.2	14.5	-171.79	178.3	623.0	433.2	415.3	17.94	24.152		
5,000.0	4,861.4	4,992.0	4,935.4	21.6	14.9	-171.69	183.0	639.6	438.3	420.0	18.35	23.892		
5,100.0	4,959.6	5,088.0	5,030.0	21.9	15.2	-171.53	187.4	655.5	440.2	421.4	18.74	23.490		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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		
5,200.0	5,058.4	5,181.1	5,121.9	22.2	15.5	-171.36	191.3	669.5	440.0	420.9	19.11	23.024		
5,300.0	5,157.7	5,274.1	5,214.0	22.5	15.8	-171.16	194.9	682.1	438.0	418.5	19.47	22.495		
5,400.0	5,257.4	5,367.1	5,306.3	22.6	16.0	-170.93	198.0	693.2	434.1	414.3	19.82	21.907		
5,500.0	5,357.3	5,460.2	5,398.8	22.8	16.3	-170.67	200.7	702.9	428.4	408.2	20.15	21.259		
5,600.0	5,457.3	5,553.2	5,491.4	22.8	16.5	-90.89	203.0	711.1	420.8	400.2	20.65	20.382		
5,700.0	5,557.3	5,646.3	5,584.3	22.9	16.7	-90.63	205.0	717.9	413.5	392.4	21.02	19.666		
5,800.0	5,657.3	5,739.7	5,677.5	23.0	16.8	-90.43	206.5	723.3	407.7	386.3	21.39	19.059		
5,900.0	5,757.3	5,833.2	5,771.0	23.1	17.0	-90.28	207.6	727.2	403.5	381.8	21.75	18.556		
6,000.0	5,857.3	5,926.9	5,864.5	23.1	17.1	-90.18	208.2	729.7	400.9	378.8	22.09	18.152		
6,100.0	5,957.3	6,020.6	5,958.2	23.2	17.2	-90.14	208.5	730.6	399.9	377.5	22.41	17.842		
6,139.4	5,996.7	6,059.0	5,996.7	23.2	17.2	-90.14	208.5	730.6	399.9	377.3	22.54	17.740		
6,200.0	6,057.3	6,119.6	6,057.3	23.3	17.3	-90.14	208.5	730.6	399.9	377.1	22.74	17.584		
6,300.0	6,157.3	6,219.6	6,157.3	23.4	17.4	-90.14	208.5	730.6	399.9	376.8	23.07	17.333		
6,400.0	6,257.3	6,319.6	6,257.3	23.5	17.5	-90.14	208.5	730.6	399.9	376.5	23.40	17.088		
6,500.0	6,357.3	6,419.6	6,357.3	23.5	17.6	-90.14	208.5	730.6	399.9	376.1	23.73	16.850		
6,600.0	6,457.3	6,519.6	6,457.3	23.6	17.7	-90.14	208.5	730.6	399.9	375.8	24.06	16.618		
6,700.0	6,557.3	6,619.6	6,557.3	23.7	17.8	-90.14	208.5	730.6	399.9	375.5	24.39	16.392		
6,800.0	6,657.3	6,719.6	6,657.3	23.8	18.0	-90.14	208.5	730.6	399.9	375.1	24.73	16.172		
6,825.7	6,683.0	6,745.3	6,683.0	23.8	18.0	-90.16	208.4	730.6	399.9	375.1	24.81	16.120		
6,900.0	6,757.3	6,819.0	6,756.5	23.9	18.0	-90.92	203.1	730.6	399.9	375.0	24.88	16.075		
7,000.0	6,857.3	6,915.2	6,850.8	24.0	18.1	-93.51	185.0	730.6	400.7	375.9	24.73	16.202		
7,100.0	6,957.3	7,005.1	6,936.2	24.1	18.1	83.27	156.7	730.6	403.8	379.3	24.54	16.456		
7,200.0	7,056.6	7,090.7	7,013.5	24.1	18.1	78.83	120.1	730.6	410.0	385.2	24.76	16.555		
7,300.0	7,153.6	7,173.5	7,083.6	24.2	18.1	74.72	76.2	730.6	418.2	392.9	25.36	16.491		
7,400.0	7,246.3	7,250.0	7,143.5	24.2	18.2	71.14	28.6	730.6	427.9	401.8	26.13	16.379		
7,500.0	7,332.8	7,332.8	7,202.2	24.2	18.3	67.71	-29.7	730.6	438.3	411.3	27.00	16.234		
7,600.0	7,411.6	7,410.0	7,250.5	24.3	18.5	64.88	-89.8	730.6	448.8	421.1	27.73	16.182		
7,700.0	7,481.1	7,485.9	7,291.4	24.4	18.7	62.51	-153.7	730.6	458.8	430.5	28.26	16.234		
7,800.0	7,539.9	7,560.8	7,325.0	24.6	19.0	60.59	-220.6	730.6	467.8	439.2	28.58	16.370		
7,900.0	7,586.9	7,635.0	7,351.1	24.9	19.4	59.11	-290.0	730.6	475.5	446.8	28.73	16.550		
8,000.0	7,621.1	7,708.6	7,369.9	25.3	19.9	58.07	-361.2	730.6	481.5	452.7	28.80	16.718		
8,100.0	7,642.0	7,781.8	7,381.2	25.9	20.4	57.45	-433.5	730.6	485.7	456.8	28.89	16.810		
8,200.0	7,649.0	7,854.9	7,385.0	26.5	21.0	57.24	-506.5	730.6	487.9	458.8	29.10	16.767		
8,300.0	7,649.0	7,954.5	7,385.0	27.3	22.0	57.33	-606.0	730.6	489.1	458.0	31.14	15.706		
8,400.0	7,649.0	8,054.5	7,385.0	28.1	23.0	57.42	-706.0	730.6	490.3	457.0	33.33	14.710		
8,500.0	7,649.0	8,154.4	7,385.0	29.0	24.1	57.51	-806.0	730.6	491.5	455.9	35.64	13.791		
8,600.0	7,649.0	8,254.4	7,385.0	30.0	25.3	57.60	-906.0	730.5	492.8	454.7	38.05	12.950		
8,700.0	7,649.0	8,354.4	7,385.0	31.1	26.5	57.69	-1,006.0	730.5	494.0	453.5	40.54	12.185		
8,800.0	7,649.0	8,454.4	7,385.0	32.2	27.8	57.78	-1,106.0	730.5	495.2	452.1	43.10	11.489		
8,900.0	7,649.0	8,554.4	7,385.0	33.4	29.2	57.87	-1,205.9	730.5	496.5	450.7	45.72	10.858		
9,000.0	7,649.0	8,654.4	7,385.0	34.6	30.6	57.96	-1,305.9	730.5	497.7	449.3	48.39	10.284		
9,100.0	7,649.0	8,754.4	7,385.0	35.9	32.0	58.05	-1,405.9	730.5	498.9	447.8	51.10	9.763		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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	90.06	0.0	8.4	8.4					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	8.4	8.4	8.1	0.30	27.634		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.7	0.65	12.856 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	88.60	0.2	10.1	10.1	9.1	1.00	10.070		
400.0	400.0	399.1	398.9	0.7	0.7	86.19	1.0	15.2	15.3	13.9	1.37	11.155		
500.0	500.0	498.2	497.7	0.9	0.9	5.38	2.3	23.7	22.2	20.5	1.70	13.094		
600.0	599.8	597.1	595.8	1.0	1.2	4.93	4.1	35.6	29.1	27.1	2.04	14.249		
700.0	699.5	695.7	693.3	1.3	1.5	4.84	6.3	50.7	36.0	33.6	2.39	15.060		
800.0	798.7	794.2	789.9	1.5	1.9	4.94	9.1	69.1	42.8	40.1	2.73	15.655		
900.0	897.5	892.3	885.6	1.8	2.3	5.15	12.3	90.7	49.6	46.5	3.08	16.102		
1,000.0	995.6	990.3	980.3	2.2	2.8	5.43	16.0	115.5	56.3	52.9	3.42	16.441		
1,100.0	1,093.1	1,090.0	1,076.1	2.6	3.3	5.86	20.1	142.7	61.6	57.8	3.77	16.316		
1,200.0	1,189.8	1,189.9	1,172.2	3.0	3.8	6.51	24.1	169.9	63.8	59.7	4.13	15.437		
1,300.0	1,286.4	1,289.9	1,268.3	3.5	4.3	7.18	28.2	197.2	65.6	61.1	4.51	14.565		
1,400.0	1,382.9	1,389.9	1,364.4	3.9	4.8	7.80	32.3	224.4	67.5	62.6	4.89	13.813		
1,500.0	1,479.5	1,489.9	1,460.5	4.4	5.3	8.40	36.4	251.7	69.3	64.1	5.27	13.156		
1,600.0	1,576.1	1,589.9	1,556.7	4.9	5.8	8.96	40.4	279.0	71.2	65.5	5.66	12.576		
1,700.0	1,672.7	1,689.8	1,652.8	5.4	6.4	9.49	44.5	306.2	73.0	67.0	6.06	12.060		
1,800.0	1,769.3	1,789.8	1,748.9	5.9	6.9	10.00	48.6	333.5	74.9	68.5	6.46	11.597		
1,900.0	1,865.9	1,889.8	1,845.0	6.4	7.4	10.48	52.6	360.7	76.8	69.9	6.87	11.179		
2,000.0	1,962.5	1,989.8	1,941.1	6.9	7.9	10.94	56.7	388.0	78.7	71.4	7.28	10.800		
2,100.0	2,059.1	2,089.8	2,037.2	7.3	8.5	11.38	60.8	415.2	80.5	72.8	7.70	10.454		
2,200.0	2,155.7	2,189.7	2,133.3	7.8	9.0	11.80	64.9	442.5	82.4	74.3	8.13	10.138		
2,300.0	2,252.3	2,289.7	2,229.4	8.3	9.5	12.20	68.9	469.7	84.3	75.8	8.56	9.847		
2,400.0	2,348.9	2,389.7	2,325.5	8.8	10.0	12.58	73.0	497.0	86.2	77.2	9.00	9.579		
2,500.0	2,445.5	2,489.7	2,421.6	9.3	10.6	12.95	77.1	524.3	88.1	78.7	9.44	9.332		
2,600.0	2,542.1	2,589.7	2,517.7	9.8	11.1	13.30	81.2	551.5	90.0	80.1	9.89	9.102		
2,700.0	2,638.6	2,689.6	2,613.8	10.3	11.6	13.63	85.2	578.8	91.9	81.6	10.34	8.888		
2,800.0	2,735.2	2,789.6	2,709.9	10.8	12.1	13.96	89.3	606.0	93.8	83.0	10.80	8.689		
2,900.0	2,831.8	2,889.6	2,806.1	11.3	12.7	14.26	93.4	633.3	95.7	84.5	11.26	8.503		
3,000.0	2,928.4	2,989.6	2,902.2	11.8	13.2	14.56	97.5	660.5	97.7	85.9	11.73	8.329		
3,100.0	3,025.0	3,089.6	2,998.3	12.3	13.7	14.85	101.5	687.8	99.6	87.4	12.19	8.166		
3,200.0	3,121.6	3,189.5	3,094.4	12.8	14.3	15.12	105.6	715.0	101.5	88.8	12.67	8.012		
3,300.0	3,218.2	3,289.5	3,190.5	13.3	14.8	15.39	109.7	742.3	103.4	90.3	13.14	7.868		
3,400.0	3,314.8	3,389.5	3,286.6	13.8	15.3	15.64	113.7	769.6	105.3	91.7	13.62	7.732		
3,500.0	3,411.4	3,489.5	3,382.7	14.3	15.8	15.89	117.8	796.8	107.3	93.2	14.11	7.603		
3,600.0	3,508.0	3,589.5	3,478.8	14.8	16.4	16.12	121.9	824.1	109.2	94.6	14.59	7.482		
3,700.0	3,604.6	3,689.5	3,574.9	15.3	16.9	16.35	126.0	851.3	111.1	96.0	15.08	7.367		
3,800.0	3,701.2	3,789.4	3,671.0	15.8	17.4	16.57	130.0	878.6	113.1	97.5	15.58	7.258		
3,900.0	3,797.8	3,889.4	3,767.1	16.3	17.9	16.79	134.1	905.8	115.0	98.9	16.07	7.155		
4,000.0	3,894.4	3,989.4	3,863.2	16.7	18.5	16.99	138.2	933.1	116.9	100.3	16.57	7.057		
4,100.0	3,990.9	4,089.4	3,959.3	17.2	19.0	17.19	142.3	960.3	118.9	101.8	17.07	6.964		
4,200.0	4,087.5	4,189.4	4,055.4	17.7	19.5	17.39	146.3	987.6	120.8	103.2	17.57	6.875		
4,300.0	4,184.1	4,289.3	4,151.6	18.2	20.1	17.58	150.4	1,014.9	122.7	104.7	18.08	6.790		
4,400.0	4,280.7	4,389.3	4,247.7	18.7	20.6	17.76	154.5	1,042.1	124.7	106.1	18.58	6.709		
4,500.0	4,377.3	4,489.3	4,343.8	19.2	21.1	17.93	158.6	1,069.4	126.6	107.5	19.09	6.632		
4,600.0	4,473.9	4,589.3	4,439.9	19.7	21.6	18.10	162.6	1,096.6	128.5	108.9	19.60	6.558		
4,700.0	4,570.5	4,689.3	4,536.0	20.2	22.2	18.27	166.7	1,123.9	130.5	110.4	20.11	6.487		
4,800.0	4,667.1	4,789.2	4,632.1	20.7	22.7	18.43	170.8	1,151.1	132.4	111.8	20.63	6.420		
4,900.0	4,763.9	4,889.2	4,728.2	21.2	23.2	18.51	174.8	1,178.4	135.0	113.9	21.11	6.396		
5,000.0	4,861.4	4,989.0	4,824.1	21.6	23.7	18.18	178.9	1,205.6	140.7	119.3	21.41	6.571		
5,100.0	4,959.6	5,088.6	4,919.9	21.9	24.3	17.50	183.0	1,232.7	149.6	128.1	21.53	6.949		

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

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R68W (Billings) - Billings 1F-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			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,058.4	5,187.8	5,015.2	22.2	24.8	16.56	187.0	1,259.8	162.0	140.4	21.53	7.522		
5,300.0	5,157.7	5,286.5	5,110.1	22.5	25.3	15.46	191.0	1,286.7	177.7	156.2	21.45	8.282		
5,400.0	5,257.4	5,384.6	5,204.4	22.6	25.8	14.32	195.0	1,313.4	196.7	175.4	21.34	9.220		
5,500.0	5,357.3	5,488.5	5,304.7	22.8	26.3	13.17	199.1	1,340.5	218.0	196.8	21.23	10.268		
5,600.0	5,457.3	5,594.5	5,407.9	22.8	26.8	91.69	202.6	1,364.3	239.1	217.6	21.46	11.142		
5,700.0	5,557.3	5,701.9	5,513.2	22.9	27.1	90.87	205.7	1,384.7	258.0	236.4	21.54	11.977		
5,800.0	5,657.3	5,810.6	5,620.7	23.0	27.5	90.29	208.2	1,401.3	273.2	251.5	21.71	12.586		
5,900.0	5,757.3	5,920.5	5,729.8	23.1	27.7	89.89	210.0	1,413.9	284.7	262.8	21.94	12.978		
6,000.0	5,857.3	6,031.3	5,840.2	23.1	27.9	89.65	211.3	1,422.5	292.5	270.3	22.22	13.164		
6,100.0	5,957.3	6,142.5	5,951.4	23.2	28.0	89.53	212.0	1,426.8	296.4	273.9	22.53	13.153		
6,200.0	6,057.3	6,248.4	6,057.3	23.3	28.1	89.51	212.1	1,427.4	296.9	274.0	22.87	12.982		
6,300.0	6,157.3	6,348.4	6,157.3	23.4	28.1	89.51	212.1	1,427.4	296.9	273.7	23.20	12.797		
6,400.0	6,257.3	6,448.4	6,257.3	23.5	28.2	89.51	212.1	1,427.4	296.9	273.4	23.53	12.616		
6,500.0	6,357.3	6,548.4	6,357.3	23.5	28.3	89.51	212.1	1,427.4	296.9	273.0	23.86	12.441		
6,600.0	6,457.3	6,648.4	6,457.3	23.6	28.3	89.51	212.1	1,427.4	296.9	272.7	24.20	12.270		
6,700.0	6,557.3	6,748.4	6,557.3	23.7	28.4	89.51	212.1	1,427.4	296.9	272.4	24.53	12.103		
6,800.0	6,657.3	6,848.4	6,657.3	23.8	28.5	89.51	212.1	1,427.4	296.9	272.0	24.86	11.941		
6,900.0	6,757.3	6,949.1	6,757.7	23.9	28.5	90.58	206.5	1,427.3	296.8	271.4	25.43	11.670		
6,924.7	6,781.9	6,973.6	6,781.9	23.9	28.5	91.25	203.1	1,427.2	296.8	271.1	25.67	11.561		
7,000.0	6,857.3	7,046.5	6,853.2	24.0	28.6	94.17	187.9	1,426.9	297.2	270.5	26.69	11.135		
7,100.0	6,957.3	7,137.5	6,939.4	24.1	28.6	-79.44	159.0	1,426.2	300.5	272.0	28.44	10.566		
7,200.0	7,056.6	7,223.9	7,017.3	24.1	28.6	-73.50	121.6	1,425.4	307.2	276.6	30.64	10.026		
7,300.0	7,153.6	7,307.4	7,087.7	24.2	28.6	-68.10	76.8	1,424.4	316.3	284.0	32.23	9.812		
7,400.0	7,246.3	7,388.5	7,150.7	24.2	28.6	-63.30	25.8	1,423.3	326.7	293.8	32.91	9.928		
7,500.0	7,332.8	7,467.6	7,206.1	24.2	28.6	-59.15	-30.6	1,422.1	337.6	305.0	32.65	10.340		
7,600.0	7,411.6	7,550.0	7,256.9	24.3	28.7	-55.46	-95.3	1,420.7	348.3	316.8	31.49	11.061		
7,700.0	7,481.1	7,621.3	7,294.6	24.4	28.8	-52.69	-155.8	1,419.4	358.0	328.3	29.73	12.044		
7,800.0	7,539.9	7,700.0	7,329.1	24.6	29.0	-50.23	-226.5	1,417.8	366.4	338.6	27.77	13.192		
7,900.0	7,586.9	7,770.7	7,353.2	24.9	29.2	-48.46	-293.0	1,416.4	372.8	346.6	26.20	14.231		
8,000.0	7,621.1	7,850.0	7,372.3	25.3	29.5	-47.01	-369.8	1,414.7	377.1	351.5	25.59	14.735		
8,100.0	7,642.0	7,917.7	7,381.8	25.9	29.8	-46.18	-436.8	1,413.3	378.9	352.5	26.47	14.313		
8,200.0	7,649.0	7,992.9	7,385.0	26.5	30.2	-45.72	-511.9	1,411.6	378.2	349.3	28.97	13.057		
8,300.0	7,649.0	8,092.9	7,385.0	27.3	30.8	-45.33	-611.9	1,409.5	375.6	345.2	30.47	12.327		
8,400.0	7,649.0	8,192.8	7,385.0	28.1	31.5	-44.94	-711.8	1,407.3	373.1	341.0	32.06	11.637		
8,500.0	7,649.0	8,292.7	7,385.0	29.0	32.3	-44.54	-811.7	1,405.1	370.5	336.8	33.72	10.989		
8,600.0	7,649.0	8,392.7	7,385.0	30.0	33.1	-44.14	-911.6	1,402.9	368.0	332.6	35.43	10.387		
8,700.0	7,649.0	8,492.6	7,385.0	31.1	34.1	-43.74	-1,011.5	1,400.8	365.5	328.3	37.18	9.831		
8,800.0	7,649.0	8,592.6	7,385.0	32.2	35.0	-43.32	-1,111.4	1,398.6	363.0	324.0	38.95	9.320		
8,900.0	7,649.0	8,692.5	7,385.0	33.4	36.1	-42.90	-1,211.3	1,396.4	360.5	319.8	40.74	8.850		
9,000.0	7,649.0	8,792.4	7,385.0	34.6	37.2	-42.48	-1,311.2	1,394.3	358.1	315.5	42.53	8.419		
9,100.0	7,649.0	8,892.4	7,385.0	35.9	38.3	-42.05	-1,411.1	1,392.1	355.6	311.3	44.32	8.024		
9,200.0	7,649.0	8,992.3	7,385.0	37.2	39.5	-41.61	-1,511.1	1,389.9	353.2	307.1	46.11	7.661		
9,300.0	7,649.0	9,092.2	7,385.0	38.6	40.8	-41.17	-1,611.0	1,387.7	350.8	302.9	47.87	7.328		
9,400.0	7,649.0	9,192.2	7,385.0	39.9	42.0	-40.72	-1,710.9	1,385.6	348.4	298.8	49.62	7.022		
9,500.0	7,649.0	9,292.1	7,385.0	41.4	43.3	-40.27	-1,810.8	1,383.4	346.1	294.8	51.35	6.740		
9,600.0	7,649.0	9,392.0	7,385.0	42.8	44.7	-39.81	-1,910.7	1,381.2	343.8	290.7	53.04	6.481		
9,700.0	7,649.0	9,492.0	7,385.0	44.3	46.0	-39.34	-2,010.6	1,379.0	341.5	286.8	54.71	6.242		
9,800.0	7,649.0	9,591.9	7,385.0	45.7	47.4	-38.87	-2,110.5	1,376.9	339.2	282.8	56.34	6.021		
9,900.0	7,649.0	9,691.8	7,385.0	47.2	48.9	-38.39	-2,210.4	1,374.7	336.9	279.0	57.93	5.816		
10,000.0	7,649.0	9,791.8	7,385.0	48.8	50.3	-37.91	-2,310.3	1,372.5	334.7	275.2	59.48	5.627		
10,100.0	7,649.0	9,891.7	7,385.0	50.3	51.8	-37.41	-2,410.2	1,370.3	332.5	271.5	60.98	5.452		
10,200.0	7,649.0	9,991.6	7,385.0	51.8	53.2	-36.92	-2,510.2	1,368.2	330.3	267.8	62.44	5.289		

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Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design 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				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	10,091.6	7,385.0	53.4	54.7	-36.41	-2,610.1	1,366.0	328.1	264.3	63.86	5.138		
10,400.0	7,649.0	10,191.5	7,385.0	55.0	56.2	-35.90	-2,710.0	1,363.8	326.0	260.8	65.22	4.998		
10,500.0	7,649.0	10,287.7	7,385.0	56.6	57.7	-35.48	-2,806.2	1,362.3	324.2	257.6	66.61	4.867		
10,550.6	7,649.0	10,335.2	7,385.0	57.4	58.5	-35.42	-2,853.7	1,362.6	324.0	256.5	67.50	4.799		
10,600.0	7,649.0	10,381.6	7,385.0	58.1	59.2	-35.48	-2,900.0	1,363.6	324.2	255.7	68.51	4.732		
10,700.0	7,649.0	10,475.3	7,385.0	59.8	60.7	-35.91	-2,993.7	1,368.0	326.1	255.1	71.02	4.592		
10,800.0	7,649.0	10,568.8	7,385.0	61.4	62.2	-36.77	-3,086.8	1,375.5	330.0	255.8	74.15	4.450		
10,900.0	7,649.0	10,667.4	7,385.0	63.0	63.8	-37.93	-3,185.0	1,385.4	335.2	257.3	77.86	4.305		
11,000.0	7,649.0	10,767.1	7,385.0	64.6	65.5	-39.08	-3,284.1	1,395.4	340.6	258.9	81.64	4.172		
11,100.0	7,649.0	10,866.7	7,385.0	66.2	67.1	-40.18	-3,383.2	1,405.4	346.1	260.6	85.45	4.050		
11,200.0	7,649.0	10,966.3	7,385.0	67.9	68.8	-41.25	-3,482.3	1,415.4	351.7	262.4	89.29	3.939		
11,300.0	7,649.0	11,065.9	7,385.0	69.5	70.4	-42.29	-3,581.5	1,425.5	357.5	264.3	93.16	3.837		
11,400.0	7,649.0	11,165.6	7,385.0	71.2	72.1	-43.30	-3,680.6	1,435.5	363.4	266.3	97.05	3.744		
11,500.0	7,649.0	11,265.2	7,385.0	72.8	73.8	-44.27	-3,779.7	1,445.5	369.3	268.4	100.95	3.659		
11,600.0	7,649.0	11,364.8	7,385.0	74.5	75.4	-45.21	-3,878.8	1,455.6	375.4	270.6	104.87	3.580		
11,700.0	7,649.0	11,464.5	7,385.0	76.2	77.1	-46.12	-3,977.9	1,465.6	381.6	272.8	108.80	3.507		
11,800.0	7,649.0	11,564.1	7,385.0	77.8	78.8	-47.00	-4,077.1	1,475.6	387.9	275.2	112.74	3.441		
11,900.0	7,649.0	11,663.7	7,385.0	79.5	80.5	-47.86	-4,176.2	1,485.6	394.3	277.6	116.68	3.379		
12,000.0	7,649.0	11,763.3	7,385.0	81.2	82.2	-48.68	-4,275.3	1,495.7	400.7	280.1	120.63	3.322		
12,100.0	7,649.0	11,863.0	7,385.0	82.8	83.9	-49.48	-4,374.4	1,505.7	407.2	282.7	124.58	3.269		
12,200.0	7,649.0	11,962.6	7,385.0	84.5	85.5	-50.26	-4,473.6	1,515.7	413.8	285.3	128.53	3.220		
12,300.0	7,649.0	12,062.2	7,385.0	86.2	87.2	-51.01	-4,572.7	1,525.8	420.5	288.0	132.48	3.174		
12,313.4	7,649.0	12,075.5	7,385.0	86.4	87.5	-51.11	-4,585.9	1,527.1	421.4	288.4	133.00	3.168 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R68W (Billings) - BILLINGS 41-34 (EXISTING) - Existing - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 123-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis			
7,300.0	7,153.6	7,233.4	7,157.6	24.2	17.8	13.52	-303.7	1,029.3	489.1	453.5	35.55	13.758		
7,400.0	7,246.3	7,325.8	7,250.1	24.2	18.0	15.46	-302.5	1,029.5	451.5	417.7	33.83	13.348		
7,500.0	7,332.8	7,405.3	7,329.5	24.2	18.1	18.41	-302.6	1,030.2	403.1	371.6	31.58	12.765		
7,600.0	7,411.6	7,490.3	7,414.5	24.3	18.2	23.98	-302.6	1,030.9	344.1	315.2	28.96	11.882		
7,700.0	7,481.1	7,559.5	7,483.8	24.4	18.3	33.52	-301.8	1,031.3	275.9	249.1	26.74	10.317		
7,800.0	7,539.9	7,617.6	7,541.8	24.6	18.4	49.94	-301.1	1,031.7	203.0	176.3	26.68	7.608		
7,900.0	7,586.9	7,663.6	7,587.8	24.9	18.4	72.91	-300.5	1,032.0	135.2	105.9	29.32	4.612		
7,989.7	7,618.2	7,693.8	7,618.0	25.3	18.5	90.45	-300.1	1,032.3	105.6	74.5	31.04	3.402 CC, ES, SF		
8,000.0	7,621.1	7,696.5	7,620.8	25.3	18.5	91.86	-300.1	1,032.3	106.0	74.9	31.13	3.406		
8,100.0	7,642.0	7,716.0	7,640.2	25.9	18.5	97.77	-299.8	1,032.4	151.0	119.0	32.00	4.720		
8,200.0	7,649.0	7,721.7	7,645.9	26.5	18.5	88.94	-299.7	1,032.5	233.1	200.0	33.10	7.042		
8,300.0	7,649.0	7,720.4	7,644.6	27.3	18.5	88.13	-299.8	1,032.5	325.4	291.2	34.23	9.506		
8,400.0	7,649.0	7,719.0	7,643.2	28.1	18.5	87.40	-299.8	1,032.5	421.2	385.8	35.45	11.883		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R68W (Billings) - BILLINGS 42-34 (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		
9,200.0	7,649.0	7,623.0	7,623.0	37.2	13.3	90.00	-1,874.2	978.3	408.5	363.9	44.68	9.144		
9,300.0	7,649.0	7,623.0	7,623.0	38.6	13.3	90.00	-1,874.2	978.3	322.2	275.9	46.28	6.961		
9,400.0	7,649.0	7,623.0	7,623.0	39.9	13.3	90.00	-1,874.2	978.3	246.3	198.4	47.89	5.143		
9,500.0	7,649.0	7,623.0	7,623.0	41.4	13.3	90.00	-1,874.2	978.3	193.7	144.2	49.52	3.913		
9,565.6	7,649.0	7,623.0	7,623.0	42.3	13.3	90.00	-1,874.2	978.3	182.3	131.7	50.59	3.603 CC, ES, SF		
9,600.0	7,649.0	7,623.0	7,623.0	42.8	13.3	90.00	-1,874.2	978.3	185.5	134.3	51.16	3.626		
9,700.0	7,649.0	7,623.0	7,623.0	44.3	13.3	90.00	-1,874.2	978.3	226.5	173.7	52.81	4.289		
9,800.0	7,649.0	7,623.0	7,623.0	45.7	13.3	90.00	-1,874.2	978.3	296.9	242.5	54.46	5.452		
9,900.0	7,649.0	7,623.0	7,623.0	47.2	13.3	90.00	-1,874.2	978.3	380.8	324.7	56.13	6.785		
10,000.0	7,649.0	7,623.0	7,623.0	48.8	13.3	90.00	-1,874.2	978.3	471.1	413.3	57.80	8.150		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T2N-R68W (Billings) - BILLINGS 8-4-34 (was Billings 7-4-34) - DD - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,100.0	7,649.0	8,028.8	7,666.0	50.3	39.7	-90.00	-2,677.4	1,519.1	443.6	376.4	67.18	6.604	
10,200.0	7,649.0	8,028.8	7,666.0	51.8	39.7	-90.00	-2,677.4	1,519.1	389.2	320.4	68.86	5.652	
10,300.0	7,649.0	8,028.8	7,666.0	53.4	39.7	-90.00	-2,677.4	1,519.1	355.2	284.7	70.55	5.035	
10,376.6	7,649.0	8,028.8	7,666.0	54.6	39.7	-90.00	-2,677.4	1,519.1	346.9	275.0	71.85	4.828 CC, ES	
10,400.0	7,649.0	8,028.8	7,666.0	55.0	39.7	-90.00	-2,677.4	1,519.1	347.7	275.4	72.24	4.812 SF	
10,500.0	7,649.0	8,028.8	7,666.0	56.6	39.7	-90.00	-2,677.4	1,519.1	368.2	294.2	73.94	4.979	
10,600.0	7,649.0	8,028.8	7,666.0	58.1	39.7	-90.00	-2,677.4	1,519.1	412.6	337.0	75.64	5.455	
10,700.0	7,649.0	8,028.8	7,666.0	59.8	39.7	-90.00	-2,677.4	1,519.1	474.3	396.9	77.34	6.132	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

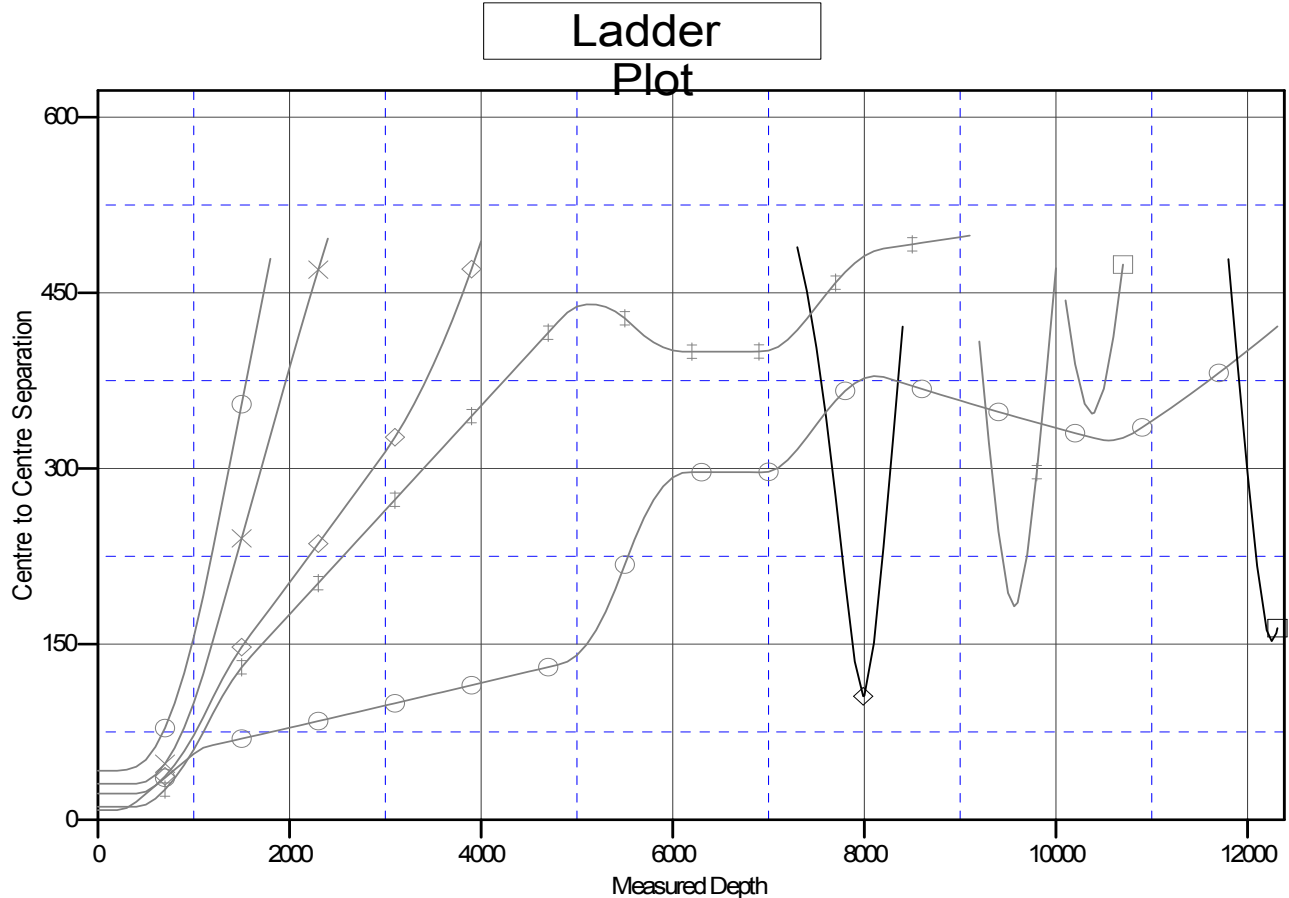
Offset Design S34-T2N-R68W (Billings) - PURITAN 44-34 (EXISTING) - Existing - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 708-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (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		
11,800.0	7,649.0	7,658.9	7,626.4	77.8	14.7	92.02	-4,561.7	1,046.8	478.9	389.1	89.74	5.336		
11,900.0	7,649.0	7,657.5	7,624.9	79.5	14.7	91.47	-4,561.7	1,046.8	385.4	293.9	91.48	4.213		
12,000.0	7,649.0	7,656.0	7,623.4	81.2	14.7	90.91	-4,561.7	1,046.8	296.2	203.0	93.22	3.178		
12,100.0	7,649.0	7,654.5	7,621.9	82.8	14.7	90.35	-4,561.7	1,046.8	216.8	121.8	94.95	2.283		
12,200.0	7,649.0	7,653.0	7,620.4	84.5	14.7	89.78	-4,561.8	1,046.8	161.9	65.2	96.68	1.674		
12,253.9	7,649.0	7,652.2	7,619.6	85.4	14.7	89.48	-4,561.8	1,046.8	152.6	55.0	97.61	1.564	CC, ES, SF	
12,300.0	7,649.0	7,651.5	7,618.9	86.2	14.7	89.22	-4,561.8	1,046.8	159.4	61.0	98.40	1.620		
12,313.4	7,649.0	7,651.3	7,618.7	86.4	14.7	89.15	-4,561.8	1,046.8	163.8	65.2	98.62	1.661		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Billings 1E-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 5008.0ft (Original Well Elev)
Reference Site:	S34-T2N-R68W (Billings)	MD Reference:	WELL @ 5008.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Billings 1E-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 5008.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Billings 1E-34H
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.33°



LEGEND

3S 8-4-34 (was Billings 7-4-34), DD, Plan #1 V0	✕ Billings 1B-34H, Hz, Plan #1 V0	✱ Billings 1D-34H, Hz, Plan #1 V0
1A-34H, Hz, Plan #1 V0	○ Billings 1F-34H, Hz, Plan #1 V0	◆ Billings 1C-34H, Hz, Plan #1 V0
3S 41-34 (EXISTING), Existing, SURVEYS V0	✱ BILLINGS 42-34 (EXISTING), Existing, NOSURVEYS V0	□ PURITAN 44-34 (EXISTING), Existing, SURVEYS V0