

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1A-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 1A-34H					
Well Position	+N-S	0.0 ft	Northing:	1,280,284.39 ft	Latitude:	40.101620
	+E-W	0.0 ft	Easting:	3,143,887.76 ft	Longitude:	-104.985650
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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	10.00	285.00	1,194.9	22.5	-84.1	1.00	1.00	0.00	285.00	
4,800.0	10.00	285.00	4,740.2	184.3	-687.9	0.00	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,735.2	206.9	-772.0	1.00	-1.00	0.00	180.00	
6,997.6	0.00	0.00	6,932.8	206.9	-772.0	0.00	0.00	0.00	0.00	
8,122.6	90.00	180.07	7,649.0	-509.3	-772.9	8.00	8.00	0.00	180.07	
12,236.0	90.00	180.07	7,649.0	-4,622.7	-778.2	0.00	0.00	0.00	0.00	Billings 1A-34H PBHL

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<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1A-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	KOP @ 200'
300.0	1.00	285.00	300.0	0.2	-0.8	-0.2	1.00	1.00	
358.0	1.58	285.00	358.0	0.6	-2.1	-0.6	1.00	1.00	Fox Hills
400.0	2.00	285.00	400.0	0.9	-3.4	-0.9	1.00	1.00	
500.0	3.00	285.00	499.9	2.0	-7.6	-2.0	1.00	1.00	
600.0	4.00	285.00	599.7	3.6	-13.5	-3.6	1.00	1.00	
700.0	5.00	285.00	699.4	5.6	-21.1	-5.6	1.00	1.00	
800.0	6.00	285.00	798.9	8.1	-30.3	-8.1	1.00	1.00	
900.0	7.00	285.00	898.3	11.1	-41.3	-11.1	1.00	1.00	
1,000.0	8.00	285.00	997.4	14.4	-53.9	-14.4	1.00	1.00	
1,100.0	9.00	285.00	1,096.3	18.3	-68.1	-18.3	1.00	1.00	
1,200.0	10.00	285.00	1,194.9	22.5	-84.1	-22.5	1.00	1.00	EOB; Inc=10°
1,300.0	10.00	285.00	1,293.4	27.0	-100.9	-27.0	0.00	0.00	
1,400.0	10.00	285.00	1,391.9	31.5	-117.6	-31.5	0.00	0.00	
1,500.0	10.00	285.00	1,490.4	36.0	-134.4	-36.0	0.00	0.00	
1,600.0	10.00	285.00	1,588.9	40.5	-151.2	-40.5	0.00	0.00	
1,700.0	10.00	285.00	1,687.3	45.0	-167.9	-45.0	0.00	0.00	
1,800.0	10.00	285.00	1,785.8	49.5	-184.7	-49.5	0.00	0.00	
1,900.0	10.00	285.00	1,884.3	54.0	-201.5	-54.0	0.00	0.00	
2,000.0	10.00	285.00	1,982.8	58.5	-218.3	-58.5	0.00	0.00	
2,100.0	10.00	285.00	2,081.3	63.0	-235.0	-63.0	0.00	0.00	
2,200.0	10.00	285.00	2,179.7	67.5	-251.8	-67.5	0.00	0.00	
2,300.0	10.00	285.00	2,278.2	72.0	-268.6	-72.0	0.00	0.00	
2,400.0	10.00	285.00	2,376.7	76.5	-285.4	-76.5	0.00	0.00	
2,500.0	10.00	285.00	2,475.2	81.0	-302.1	-81.0	0.00	0.00	
2,600.0	10.00	285.00	2,573.7	85.4	-318.9	-85.4	0.00	0.00	
2,700.0	10.00	285.00	2,672.1	89.9	-335.7	-89.9	0.00	0.00	
2,800.0	10.00	285.00	2,770.6	94.4	-352.4	-94.4	0.00	0.00	
2,900.0	10.00	285.00	2,869.1	98.9	-369.2	-98.9	0.00	0.00	
3,000.0	10.00	285.00	2,967.6	103.4	-386.0	-103.4	0.00	0.00	
3,100.0	10.00	285.00	3,066.1	107.9	-402.8	-107.9	0.00	0.00	
3,200.0	10.00	285.00	3,164.5	112.4	-419.5	-112.4	0.00	0.00	
3,300.0	10.00	285.00	3,263.0	116.9	-436.3	-116.9	0.00	0.00	
3,400.0	10.00	285.00	3,361.5	121.4	-453.1	-121.4	0.00	0.00	
3,500.0	10.00	285.00	3,460.0	125.9	-469.9	-125.9	0.00	0.00	
3,600.0	10.00	285.00	3,558.5	130.4	-486.6	-130.4	0.00	0.00	
3,700.0	10.00	285.00	3,657.0	134.9	-503.4	-134.9	0.00	0.00	
3,800.0	10.00	285.00	3,755.4	139.4	-520.2	-139.4	0.00	0.00	
3,900.0	10.00	285.00	3,853.9	143.9	-537.0	-143.9	0.00	0.00	
4,000.0	10.00	285.00	3,952.4	148.4	-553.7	-148.4	0.00	0.00	
4,100.0	10.00	285.00	4,050.9	152.9	-570.5	-152.9	0.00	0.00	
4,200.0	10.00	285.00	4,149.4	157.4	-587.3	-157.4	0.00	0.00	
4,300.0	10.00	285.00	4,247.8	161.9	-604.0	-161.9	0.00	0.00	
4,400.0	10.00	285.00	4,346.3	166.3	-620.8	-166.3	0.00	0.00	
4,499.2	10.00	285.00	4,444.0	170.8	-637.5	-170.8	0.00	0.00	Sussex
4,500.0	10.00	285.00	4,444.8	170.8	-637.6	-170.8	0.00	0.00	
4,600.0	10.00	285.00	4,543.3	175.3	-654.4	-175.3	0.00	0.00	
4,700.0	10.00	285.00	4,641.8	179.8	-671.1	-179.8	0.00	0.00	
4,773.4	10.00	285.00	4,714.0	183.1	-683.4	-183.1	0.00	0.00	Sussex Marker
4,800.0	10.00	285.00	4,740.2	184.3	-687.9	-184.3	0.00	0.00	Start Drop -1.00

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<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1A-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	9.00	285.00	4,838.9	188.6	-703.9	-188.6	1.00	-1.00	
5,000.0	8.00	285.00	4,937.8	192.4	-718.1	-192.4	1.00	-1.00	
5,061.8	7.38	285.00	4,999.0	194.6	-726.1	-194.6	1.00	-1.00	Shannon
5,100.0	7.00	285.00	5,036.9	195.8	-730.7	-195.8	1.00	-1.00	
5,200.0	6.00	285.00	5,136.3	198.7	-741.7	-198.7	1.00	-1.00	
5,300.0	5.00	285.00	5,235.8	201.2	-750.9	-201.2	1.00	-1.00	
5,400.0	4.00	285.00	5,335.5	203.2	-758.5	-203.2	1.00	-1.00	
5,500.0	3.00	285.00	5,435.3	204.8	-764.4	-204.8	1.00	-1.00	
5,600.0	2.00	285.00	5,535.2	206.0	-768.6	-206.0	1.00	-1.00	
5,700.0	1.00	285.00	5,635.2	206.6	-771.1	-206.6	1.00	-1.00	
5,800.0	0.00	0.00	5,735.2	206.9	-772.0	-206.9	1.00	-1.00	EOD; Inc=0°
5,900.0	0.00	0.00	5,835.2	206.9	-772.0	-206.9	0.00	0.00	
6,000.0	0.00	0.00	5,935.2	206.9	-772.0	-206.9	0.00	0.00	
6,100.0	0.00	0.00	6,035.2	206.9	-772.0	-206.9	0.00	0.00	
6,200.0	0.00	0.00	6,135.2	206.9	-772.0	-206.9	0.00	0.00	
6,300.0	0.00	0.00	6,235.2	206.9	-772.0	-206.9	0.00	0.00	
6,400.0	0.00	0.00	6,335.2	206.9	-772.0	-206.9	0.00	0.00	
6,500.0	0.00	0.00	6,435.2	206.9	-772.0	-206.9	0.00	0.00	
6,600.0	0.00	0.00	6,535.2	206.9	-772.0	-206.9	0.00	0.00	
6,654.8	0.00	0.00	6,590.0	206.9	-772.0	-206.9	0.00	0.00	Teepee Buttes
6,700.0	0.00	0.00	6,635.2	206.9	-772.0	-206.9	0.00	0.00	
6,800.0	0.00	0.00	6,735.2	206.9	-772.0	-206.9	0.00	0.00	
6,900.0	0.00	0.00	6,835.2	206.9	-772.0	-206.9	0.00	0.00	
6,997.6	0.00	0.00	6,932.8	206.9	-772.0	-206.9	0.00	0.00	Start Build 8.00
7,000.0	0.19	180.07	6,935.2	206.9	-772.0	-206.9	8.00	8.00	
7,100.0	8.19	180.07	7,034.8	199.6	-772.0	-199.6	8.00	8.00	
7,200.0	16.19	180.07	7,132.5	178.5	-772.0	-178.5	8.00	8.00	
7,300.0	24.19	180.07	7,226.3	144.0	-772.1	-144.0	8.00	8.00	
7,371.6	29.92	180.07	7,290.0	111.4	-772.1	-111.4	8.00	8.00	Sharon Springs
7,400.0	32.19	180.07	7,314.3	96.8	-772.1	-96.8	8.00	8.00	
7,461.6	37.12	180.07	7,365.0	61.7	-772.2	-61.7	8.00	8.00	Niobrara
7,500.0	40.19	180.07	7,395.0	37.8	-772.2	-37.8	8.00	8.00	
7,557.0	44.75	180.07	7,437.0	-0.7	-772.3	0.7	8.00	8.00	B Chalk
7,600.0	48.19	180.07	7,466.6	-31.9	-772.3	31.9	8.00	8.00	
7,645.7	51.85	180.07	7,496.0	-66.9	-772.3	66.9	8.00	8.00	Ft. Hayes
7,700.0	56.19	180.07	7,527.9	-110.8	-772.4	110.8	8.00	8.00	
7,800.0	64.19	180.07	7,577.6	-197.5	-772.5	197.5	8.00	8.00	
7,900.0	72.19	180.07	7,614.7	-290.3	-772.6	290.3	8.00	8.00	
8,000.0	80.19	180.07	7,638.5	-387.3	-772.8	387.3	8.00	8.00	
8,002.8	80.41	180.07	7,639.0	-390.1	-772.8	390.1	8.00	8.00	Codell
8,100.0	88.19	180.07	7,648.6	-486.7	-772.9	486.7	8.00	8.00	
8,122.6	90.00	180.07	7,649.0	-509.3	-772.9	509.3	8.00	8.00	LP @ 7649' TVD; 90°
8,200.0	90.00	180.07	7,649.0	-586.7	-773.0	586.7	0.00	0.00	
8,300.0	90.00	180.07	7,649.0	-686.7	-773.1	686.7	0.00	0.00	
8,400.0	90.00	180.07	7,649.0	-786.7	-773.3	786.7	0.00	0.00	
8,500.0	90.00	180.07	7,649.0	-886.7	-773.4	886.7	0.00	0.00	
8,600.0	90.00	180.07	7,649.0	-986.7	-773.5	986.7	0.00	0.00	
8,700.0	90.00	180.07	7,649.0	-1,086.7	-773.7	1,086.7	0.00	0.00	
8,800.0	90.00	180.07	7,649.0	-1,186.7	-773.8	1,186.7	0.00	0.00	
8,900.0	90.00	180.07	7,649.0	-1,286.7	-773.9	1,286.7	0.00	0.00	
9,000.0	90.00	180.07	7,649.0	-1,386.7	-774.0	1,386.7	0.00	0.00	
9,100.0	90.00	180.07	7,649.0	-1,486.7	-774.2	1,486.7	0.00	0.00	

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<b>Well:</b>	Billings 1A-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	180.07	7,649.0	-1,586.7	-774.3	1,586.7	0.00	0.00	
9,300.0	90.00	180.07	7,649.0	-1,686.7	-774.4	1,686.7	0.00	0.00	
9,400.0	90.00	180.07	7,649.0	-1,786.7	-774.6	1,786.7	0.00	0.00	
9,500.0	90.00	180.07	7,649.0	-1,886.7	-774.7	1,886.7	0.00	0.00	
9,600.0	90.00	180.07	7,649.0	-1,986.7	-774.8	1,986.7	0.00	0.00	
9,700.0	90.00	180.07	7,649.0	-2,086.7	-774.9	2,086.7	0.00	0.00	
9,800.0	90.00	180.07	7,649.0	-2,186.7	-775.1	2,186.7	0.00	0.00	
9,900.0	90.00	180.07	7,649.0	-2,286.7	-775.2	2,286.7	0.00	0.00	
10,000.0	90.00	180.07	7,649.0	-2,386.7	-775.3	2,386.7	0.00	0.00	
10,100.0	90.00	180.07	7,649.0	-2,486.7	-775.5	2,486.7	0.00	0.00	
10,200.0	90.00	180.07	7,649.0	-2,586.7	-775.6	2,586.7	0.00	0.00	
10,300.0	90.00	180.07	7,649.0	-2,686.7	-775.7	2,686.7	0.00	0.00	
10,400.0	90.00	180.07	7,649.0	-2,786.7	-775.8	2,786.7	0.00	0.00	
10,500.0	90.00	180.07	7,649.0	-2,886.7	-776.0	2,886.7	0.00	0.00	
10,600.0	90.00	180.07	7,649.0	-2,986.7	-776.1	2,986.7	0.00	0.00	
10,700.0	90.00	180.07	7,649.0	-3,086.7	-776.2	3,086.7	0.00	0.00	
10,800.0	90.00	180.07	7,649.0	-3,186.7	-776.4	3,186.7	0.00	0.00	
10,900.0	90.00	180.07	7,649.0	-3,286.7	-776.5	3,286.7	0.00	0.00	
11,000.0	90.00	180.07	7,649.0	-3,386.7	-776.6	3,386.7	0.00	0.00	
11,100.0	90.00	180.07	7,649.0	-3,486.7	-776.7	3,486.7	0.00	0.00	
11,200.0	90.00	180.07	7,649.0	-3,586.7	-776.9	3,586.7	0.00	0.00	
11,300.0	90.00	180.07	7,649.0	-3,686.7	-777.0	3,686.7	0.00	0.00	
11,400.0	90.00	180.07	7,649.0	-3,786.7	-777.1	3,786.7	0.00	0.00	
11,500.0	90.00	180.07	7,649.0	-3,886.7	-777.3	3,886.7	0.00	0.00	
11,600.0	90.00	180.07	7,649.0	-3,986.7	-777.4	3,986.7	0.00	0.00	
11,700.0	90.00	180.07	7,649.0	-4,086.7	-777.5	4,086.7	0.00	0.00	
11,800.0	90.00	180.07	7,649.0	-4,186.7	-777.6	4,186.7	0.00	0.00	
11,900.0	90.00	180.07	7,649.0	-4,286.7	-777.8	4,286.7	0.00	0.00	
12,000.0	90.00	180.07	7,649.0	-4,386.7	-777.9	4,386.7	0.00	0.00	
12,100.0	90.00	180.07	7,649.0	-4,486.7	-778.0	4,486.7	0.00	0.00	
12,200.0	90.00	180.07	7,649.0	-4,586.7	-778.2	4,586.7	0.00	0.00	
12,236.0	90.00	180.07	7,649.0	-4,622.7	-778.2	4,622.7	0.00	0.00	TD at 12236.0 - Billings 1A-34H PBHL NEW - B

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Billings 1A-34H PBHL N - plan hits target center - Point	0.00	0.00	7,649.0	-4,622.7	-778.2	1,275,657.27	3,143,136.39	40.088930	-104.988431
Billings 1A-34H PBHL - plan misses target center by 50.0ft at 12236.0ft MD (7649.0 TVD, -4622.7 N, -778.2 E) - Point	0.00	0.00	7,649.0	-4,622.7	-828.2	1,275,656.99	3,143,086.42	40.088930	-104.988610

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Project:</b>	DJ Wattenberg	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site:</b>	S34-T2N-R68W (Billings)	<b>North Reference:</b>	True
<b>Well:</b>	Billings 1A-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				
4,499.2	4,444.0	Sussex				
4,773.4	4,714.0	Sussex Marker				
5,061.8	4,999.0	Shannon				
6,654.8	6,590.0	Teepee Buttes				
7,371.6	7,290.0	Sharon Springs				
7,461.6	7,365.0	Niobrara				
7,557.0	7,437.0	B Chalk				
7,645.7	7,496.0	Ft. Hayes				
8,002.8	7,639.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
1,200.0	1,194.9	22.5	-84.1	EOB; Inc=10°	
4,800.0	4,740.2	184.3	-687.9	Start Drop -1.00	
5,800.0	5,735.2	206.9	-772.0	EOD; Inc=0°	
6,997.6	6,932.8	206.9	-772.0	Start Build 8.00	
8,122.6	7,649.0	-509.3	-772.9	LP @ 7649' TVD; 90°	
12,236.0	7,649.0	-4,622.7	-778.2	TD at 12236.0	

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

**DJ Wattenberg**

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

**Billings 1A-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 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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	12,236.0	Plan #1 (Hz)	MWD	Geolink MWD	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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)	Distance 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						Out of range
Billings 1B-34H - Hz - Plan #1	200.0	200.0	11.2	10.5	17.142	CC, ES
Billings 1B-34H - Hz - Plan #1	400.0	400.0	14.6	13.2	10.802	SF
Billings 1C-34H - Hz - Plan #1	200.0	200.0	19.6	18.9	29.998	CC, ES
Billings 1C-34H - Hz - Plan #1	500.0	499.9	27.2	25.5	16.032	SF
Billings 1D-34H - Hz - Plan #1	200.0	200.0	30.8	30.1	47.140	CC, ES
Billings 1D-34H - Hz - Plan #1	600.0	599.7	44.4	42.4	21.685	SF
Billings 1E-34H - Hz - Plan #1	200.0	200.0	42.0	41.3	64.282	CC, ES
Billings 1E-34H - Hz - Plan #1	500.0	498.2	51.3	49.6	30.210	SF
Billings 1F-34H - Hz - Plan #1	200.0	200.0	50.4	49.7	77.139	CC, ES
Billings 1F-34H - Hz - Plan #1	500.0	493.0	73.1	71.4	43.294	SF
BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS						Out of range
BILLINGS 31-34 (EXISTING) - Existing - SURVEYS	7,908.0	7,750.8	294.8	264.1	9.604	CC, ES, SF
BILLINGS 32-34 (EXISTING) - Existing - NO SURVEYS	9,434.1	7,657.0	486.4	436.9	9.820	CC, ES
BILLINGS 32-34 (EXISTING) - Existing - NO SURVEYS	9,500.0	7,657.0	490.9	440.3	9.699	SF
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	10,729.9	7,641.6	316.2	251.5	4.893	CC, ES, SF
PURITAN 34-34 (EXISTING) - Existing - SURVEYS	12,165.7	7,662.5	244.7	146.3	2.488	CC, ES, SF
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	10,083.5	7,726.0	187.1	123.2	2.925	CC, ES
PURITAN 4-4-34 (EXISTING) - Existing - SURVEYS	10,100.0	7,725.8	187.9	123.6	2.924	SF
PURITAN 4-6-34 (EXISTING) - Existing - SURVEYS	11,458.7	7,751.9	157.0	67.4	1.753	CC, ES, SF
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	1,661.5	1,641.4	478.5	471.4	67.450	CC
WOOLLEY 2 (EXISTING) - Existing - NO SURVEYS	1,700.0	1,679.3	478.5	471.3	65.623	ES
WOOLLEY 2 (EXISTING) - Existing - NO SURVEYS	2,400.0	2,368.7	495.4	484.6	45.922	SF
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 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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				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	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 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	166.11	0.0	11.2	12.0	11.0	1.00	12.013		
400.0	400.0	400.0	400.0	0.7	0.7	168.58	0.0	11.2	14.6	13.2	1.35	10.802 SF		
500.0	499.9	499.9	499.9	0.9	0.9	168.63	0.8	11.0	18.7	17.0	1.70	10.971		
600.0	599.7	599.9	599.8	1.1	1.0	165.44	3.4	10.5	24.0	22.0	2.05	11.703		
700.0	699.4	699.7	699.6	1.3	1.2	161.13	7.7	9.7	30.9	28.5	2.42	12.777		
800.0	798.9	799.3	799.0	1.5	1.4	156.79	13.7	8.6	39.3	36.5	2.80	14.069		
900.0	898.3	898.8	898.2	1.8	1.6	152.86	21.3	7.2	49.5	46.3	3.20	15.480		
1,000.0	997.4	998.0	996.9	2.0	1.8	149.44	30.6	5.5	61.5	57.9	3.63	16.935		
1,100.0	1,096.3	1,096.8	1,095.1	2.3	2.1	146.53	41.6	3.4	75.3	71.2	4.10	18.378		
1,200.0	1,194.9	1,195.3	1,192.8	2.7	2.3	144.06	54.2	1.1	90.8	86.2	4.60	19.770		
1,300.0	1,293.4	1,293.9	1,290.4	3.0	2.6	142.17	67.6	-1.5	107.4	102.3	5.11	20.999		
1,400.0	1,391.9	1,392.4	1,388.0	3.3	2.9	140.79	81.1	-4.0	124.0	118.4	5.64	21.981		
1,500.0	1,490.4	1,491.0	1,485.6	3.7	3.1	139.73	94.6	-6.5	140.7	134.6	6.18	22.779		
1,600.0	1,588.9	1,589.6	1,583.2	4.0	3.4	138.90	108.1	-9.0	157.5	150.8	6.72	23.437		
1,700.0	1,687.3	1,688.1	1,680.8	4.4	3.7	138.22	121.6	-11.6	174.2	167.0	7.26	23.989		
1,800.0	1,785.8	1,786.7	1,778.4	4.7	4.0	137.67	135.1	-14.1	191.0	183.2	7.81	24.456		
1,900.0	1,884.3	1,885.3	1,876.0	5.1	4.3	137.20	148.5	-16.6	207.8	199.5	8.36	24.857		
2,000.0	1,982.8	1,984.6	1,974.4	5.4	4.6	136.90	161.8	-19.1	224.5	215.6	8.90	25.219		
2,100.0	2,081.3	2,084.4	2,073.5	5.7	4.8	137.00	173.5	-21.3	240.8	231.3	9.42	25.564		
2,200.0	2,179.7	2,184.4	2,173.0	6.1	5.1	137.48	183.5	-23.2	256.5	246.6	9.90	25.898		
2,300.0	2,278.2	2,284.4	2,272.7	6.4	5.3	138.25	191.8	-24.7	271.8	261.4	10.36	26.233		
2,400.0	2,376.7	2,384.5	2,372.5	6.8	5.5	139.28	198.4	-26.0	286.7	275.9	10.79	26.581		
2,500.0	2,475.2	2,484.4	2,472.3	7.1	5.6	140.54	203.3	-26.9	301.3	290.1	11.18	26.954		
2,600.0	2,573.7	2,584.3	2,572.1	7.5	5.8	141.99	206.5	-27.5	315.6	304.1	11.53	27.364		
2,700.0	2,672.1	2,684.0	2,671.8	7.8	6.0	143.60	208.0	-27.7	329.8	317.9	11.85	27.821		
2,800.0	2,770.6	2,782.8	2,770.6	8.2	6.1	145.30	208.1	-27.8	344.0	331.9	12.15	28.305		
2,900.0	2,869.1	2,881.3	2,869.1	8.5	6.2	146.87	208.1	-27.8	358.5	346.0	12.45	28.797		
3,000.0	2,967.6	2,979.8	2,967.6	8.9	6.4	148.32	208.1	-27.8	373.2	360.5	12.74	29.289		
3,100.0	3,066.1	3,078.3	3,066.1	9.3	6.5	149.66	208.1	-27.8	388.2	375.1	13.04	29.777		
3,200.0	3,164.5	3,176.7	3,164.5	9.6	6.6	150.90	208.1	-27.8	403.3	390.0	13.33	30.260		
3,300.0	3,263.0	3,275.2	3,263.0	10.0	6.8	152.06	208.1	-27.8	418.6	405.0	13.62	30.733		
3,400.0	3,361.5	3,373.7	3,361.5	10.3	6.9	153.13	208.1	-27.8	434.1	420.2	13.91	31.197		
3,500.0	3,460.0	3,472.2	3,460.0	10.7	7.1	154.12	208.1	-27.8	449.7	435.5	14.21	31.649		
3,600.0	3,558.5	3,570.7	3,558.5	11.0	7.2	155.05	208.1	-27.8	465.4	450.9	14.50	32.088		
3,700.0	3,657.0	3,669.2	3,657.0	11.4	7.4	155.92	208.1	-27.8	481.3	466.5	14.80	32.516		
3,800.0	3,755.4	3,767.6	3,755.4	11.7	7.5	156.74	208.1	-27.8	497.2	482.1	15.10	32.930		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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 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	90.05	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.30	64.479		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	18.9	0.65	29.998 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	165.68	0.0	19.6	20.4	19.4	1.00	20.390		
400.0	400.0	400.0	400.0	0.7	0.7	167.29	0.0	19.6	23.0	21.6	1.35	17.007		
500.0	499.9	499.9	499.9	0.9	0.8	169.30	0.0	19.6	27.2	25.5	1.70	16.032 SF		
600.0	599.7	599.7	599.7	1.1	1.0	171.24	0.0	19.6	33.3	31.2	2.05	16.247		
700.0	699.4	698.9	698.9	1.3	1.2	172.03	0.5	20.2	41.6	39.2	2.39	17.388		
800.0	798.9	797.7	797.6	1.5	1.4	171.44	2.1	22.2	52.9	50.2	2.74	19.301		
900.0	898.3	895.9	895.8	1.8	1.6	170.24	4.8	25.5	67.1	64.0	3.09	21.716		
1,000.0	997.4	993.5	993.2	2.0	1.7	168.87	8.5	30.1	84.3	80.8	3.44	24.469		
1,100.0	1,096.3	1,090.2	1,089.6	2.3	1.9	167.53	13.2	35.9	104.3	100.5	3.80	27.450		
1,200.0	1,194.9	1,186.1	1,185.0	2.7	2.1	166.28	18.8	42.9	127.4	123.2	4.17	30.580		
1,300.0	1,293.4	1,281.0	1,279.4	3.0	2.4	165.15	25.4	51.0	152.5	148.0	4.54	33.570		
1,400.0	1,391.9	1,375.3	1,372.9	3.3	2.6	164.02	32.9	60.3	178.9	174.0	4.93	36.302		
1,500.0	1,490.4	1,468.8	1,465.5	3.7	2.8	162.91	41.4	70.7	206.6	201.3	5.32	38.821		
1,600.0	1,588.9	1,561.6	1,557.1	4.0	3.1	161.83	50.6	82.1	235.7	230.0	5.73	41.165		
1,700.0	1,687.3	1,655.5	1,649.6	4.4	3.4	160.81	60.8	94.7	265.8	259.7	6.14	43.320		
1,800.0	1,785.8	1,750.7	1,743.4	4.7	3.7	159.97	71.2	107.6	296.2	289.6	6.55	45.194		
1,900.0	1,884.3	1,845.9	1,837.1	5.1	4.0	159.29	81.6	120.4	326.5	319.5	6.97	46.838		
2,000.0	1,982.8	1,941.1	1,930.9	5.4	4.3	158.72	92.0	133.3	356.9	349.5	7.39	48.291		
2,100.0	2,081.3	2,036.3	2,024.6	5.7	4.6	158.24	102.4	146.1	387.3	379.5	7.81	49.583		
2,200.0	2,179.7	2,131.6	2,118.4	6.1	5.0	157.83	112.9	159.0	417.8	409.6	8.23	50.740		
2,300.0	2,278.2	2,226.8	2,212.2	6.4	5.3	157.48	123.3	171.8	448.3	439.6	8.66	51.780		
2,400.0	2,376.7	2,322.0	2,305.9	6.8	5.6	157.17	133.7	184.7	478.7	469.7	9.08	52.721		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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		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	90.05	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	300.0	300.0	0.5	0.5	165.45	0.0	30.8	31.6	30.6	1.00	31.559		
400.0	400.0	400.0	400.0	0.7	0.7	166.55	0.0	30.8	34.2	32.8	1.35	25.286		
500.0	499.9	499.9	499.9	0.9	0.8	168.05	0.0	30.8	38.4	36.7	1.70	22.602		
600.0	599.7	599.7	599.7	1.1	1.0	169.67	0.0	30.8	44.4	42.4	2.05	21.685 SF		
700.0	699.4	698.5	698.5	1.3	1.2	170.85	0.2	31.6	52.9	50.5	2.39	22.114		
800.0	798.9	796.9	796.8	1.5	1.4	171.34	0.9	34.0	64.8	62.0	2.74	23.656		
900.0	898.3	894.6	894.5	1.8	1.5	171.38	2.0	38.1	79.9	76.8	3.08	25.924		
1,000.0	997.4	991.5	991.2	2.0	1.7	171.18	3.6	43.6	98.3	94.9	3.43	28.691		
1,100.0	1,096.3	1,087.4	1,086.8	2.3	1.9	170.86	5.6	50.7	119.9	116.1	3.77	31.813		
1,200.0	1,194.9	1,182.3	1,181.3	2.7	2.1	170.50	8.0	59.2	144.7	140.6	4.11	35.192		
1,300.0	1,293.4	1,276.1	1,274.5	3.0	2.3	170.13	10.8	69.1	171.8	167.3	4.46	38.511		
1,400.0	1,391.9	1,369.1	1,366.8	3.3	2.6	169.70	13.9	80.4	200.4	195.6	4.81	41.641		
1,500.0	1,490.4	1,461.2	1,458.0	3.7	2.8	169.24	17.5	93.0	230.4	225.2	5.16	44.615		
1,600.0	1,588.9	1,552.4	1,548.1	4.0	3.1	168.78	21.3	106.8	261.9	256.4	5.52	47.459		
1,700.0	1,687.3	1,644.8	1,639.0	4.4	3.4	168.31	25.6	122.1	294.6	288.8	5.88	50.141		
1,800.0	1,785.8	1,739.2	1,732.0	4.7	3.7	167.92	30.1	137.8	327.6	321.4	6.24	52.509		
1,900.0	1,884.3	1,833.6	1,824.9	5.1	4.0	167.60	34.5	153.6	360.6	354.0	6.60	54.613		
2,000.0	1,982.8	1,928.0	1,917.9	5.4	4.3	167.33	38.9	169.4	393.5	386.6	6.97	56.493		
2,100.0	2,081.3	2,022.3	2,010.9	5.7	4.6	167.11	43.4	185.2	426.5	419.2	7.33	58.183		
2,200.0	2,179.7	2,116.7	2,103.8	6.1	4.9	166.92	47.8	201.0	459.5	451.8	7.70	59.711		
2,300.0	2,278.2	2,211.1	2,196.8	6.4	5.2	166.75	52.2	216.7	492.5	484.4	8.06	61.097		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	42.0	42.0					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	42.0	42.0	41.7	0.30	138.170		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	42.0	42.0	41.3	0.65	64.282 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	165.34	0.0	42.0	42.8	41.8	1.00	42.728		
400.0	400.0	400.0	400.0	0.7	0.7	166.18	0.0	42.0	45.3	44.0	1.35	33.568		
500.0	499.9	498.2	498.1	0.9	0.8	166.93	0.3	43.6	51.3	49.6	1.70	30.210 SF		
600.0	599.7	595.7	595.5	1.1	1.0	167.15	1.2	48.5	62.2	60.2	2.04	30.461		
700.0	699.4	692.1	691.6	1.3	1.2	167.03	2.7	56.6	78.1	75.7	2.39	32.730		
800.0	798.9	787.1	785.9	1.5	1.5	166.73	4.7	67.6	98.9	96.1	2.73	36.231		
900.0	898.3	880.2	878.0	1.8	1.7	166.39	7.3	81.4	124.4	121.3	3.07	40.525		
1,000.0	997.4	971.2	967.4	2.0	2.0	166.05	10.3	97.8	154.6	151.2	3.41	45.349		
1,100.0	1,096.3	1,059.8	1,054.0	2.3	2.4	165.72	13.8	116.3	189.3	185.6	3.75	50.533		
1,200.0	1,194.9	1,145.7	1,137.3	2.7	2.8	165.42	17.6	136.9	228.4	224.3	4.08	55.972		
1,300.0	1,293.4	1,236.4	1,225.0	3.0	3.2	165.26	21.8	159.9	269.7	265.2	4.43	60.857		
1,400.0	1,391.9	1,327.5	1,312.9	3.3	3.6	165.14	26.1	183.1	311.0	306.2	4.78	65.004		
1,500.0	1,490.4	1,418.6	1,400.9	3.7	4.0	165.05	30.4	206.3	352.3	347.2	5.14	68.567		
1,600.0	1,588.9	1,509.6	1,488.9	4.0	4.5	164.97	34.7	229.5	393.6	388.1	5.49	71.661		
1,700.0	1,687.3	1,600.7	1,576.8	4.4	4.9	164.92	39.0	252.6	434.9	429.1	5.85	74.372		
1,800.0	1,785.8	1,691.8	1,664.8	4.7	5.3	164.87	43.3	275.8	476.2	470.0	6.20	76.765		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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) - Billings 1F-34H - Hz - 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		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	90.05	0.0	50.4	50.4				
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	50.4	50.4	50.0	0.30	165.804	
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	50.4	50.4	49.7	0.65	77.139 CC, ES	
300.0	300.0	298.2	298.2	0.5	0.5	165.01	0.2	52.0	52.9	51.9	1.00	52.956	
400.0	400.0	396.0	395.9	0.7	0.7	164.91	0.9	57.0	60.5	59.1	1.34	44.999	
500.0	499.9	493.0	492.5	0.9	0.9	164.79	2.2	65.2	73.1	71.4	1.69	43.294 SF	
600.0	599.7	588.7	587.5	1.1	1.2	164.67	3.9	76.4	90.7	88.7	2.03	44.637	
700.0	699.4	682.9	680.6	1.3	1.5	164.56	6.0	90.5	113.1	110.8	2.37	47.680	
800.0	798.9	775.1	771.2	1.5	1.8	164.46	8.5	107.2	140.3	137.6	2.71	51.755	
900.0	898.3	865.0	859.1	1.8	2.2	164.36	11.3	126.4	172.1	169.1	3.05	56.492	
1,000.0	997.4	952.5	943.8	2.0	2.6	164.26	14.5	147.5	208.4	205.0	3.38	61.667	
1,100.0	1,096.3	1,040.4	1,028.5	2.3	3.0	164.18	18.0	171.1	248.7	245.0	3.71	66.976	
1,200.0	1,194.9	1,131.0	1,115.6	2.7	3.5	164.17	21.7	195.8	290.9	286.9	4.05	71.794	
1,300.0	1,293.4	1,221.3	1,202.4	3.0	3.9	164.30	25.4	220.4	333.9	329.5	4.40	75.885	
1,400.0	1,391.9	1,311.6	1,289.1	3.3	4.4	164.40	29.1	245.0	377.0	372.2	4.75	79.361	
1,500.0	1,490.4	1,401.8	1,375.9	3.7	4.9	164.49	32.7	269.7	420.0	414.9	5.10	82.350	
1,600.0	1,588.9	1,492.1	1,462.7	4.0	5.3	164.55	36.4	294.3	463.0	457.5	5.45	84.946	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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 31-34 (EXISTING) - Existing - SURVEYS										Offset Site Error:		0.0 ft	
Survey Program: 92-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			
7,400.0	7,314.3	7,458.6	7,319.5	18.8	24.1	-40.26	-308.8	-484.6	497.2	469.5	27.68	17.961			
7,500.0	7,395.0	7,538.4	7,399.2	18.9	24.1	-48.14	-306.3	-482.7	449.7	423.9	25.78	17.446			
7,600.0	7,466.6	7,607.6	7,468.3	19.0	24.2	-58.33	-304.0	-480.9	398.7	373.2	25.44	15.671			
7,700.0	7,527.9	7,666.3	7,527.0	19.3	24.3	-69.93	-302.2	-479.6	349.8	322.8	26.97	12.970			
7,800.0	7,577.6	7,713.7	7,574.3	19.6	24.3	-80.77	-300.9	-478.6	311.6	282.5	29.06	10.722			
7,900.0	7,614.7	7,748.6	7,609.3	20.1	24.3	-88.44	-300.0	-477.9	294.9	264.3	30.60	9.639			
7,908.0	7,617.1	7,750.8	7,611.5	20.2	24.3	-88.86	-300.0	-477.9	294.8	264.1	30.70	9.604	CC, ES, SF		
8,000.0	7,638.5	7,770.3	7,631.0	20.7	24.3	-91.47	-299.5	-477.5	308.1	276.4	31.65	9.734			
8,100.0	7,648.6	7,778.2	7,638.9	21.5	24.3	-89.26	-299.3	-477.4	350.0	317.4	32.60	10.736			
8,200.0	7,649.0	7,776.2	7,636.9	22.4	24.3	-87.65	-299.4	-477.4	412.4	378.7	33.67	12.248			
8,300.0	7,649.0	7,773.8	7,634.5	23.4	24.3	-87.18	-299.4	-477.5	487.5	452.6	34.87	13.978			

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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) - BILLINGS 32-34 (EXISTING) - Existing - NO SURVEYS												<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
9,400.0	7,649.0	7,657.0	7,657.0	38.1	13.4	-90.00	-1,821.4	-288.1	487.6	438.7	48.98	9.956	
9,434.1	7,649.0	7,657.0	7,657.0	38.6	13.4	-90.00	-1,821.4	-288.1	486.4	436.9	49.54	9.820 CC, ES	
9,500.0	7,649.0	7,657.0	7,657.0	39.6	13.4	-90.00	-1,821.4	-288.1	490.9	440.3	50.62	9.699 SF	



# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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 33-34 (EXISTING) - Existing - 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	
10,400.0	7,649.0	7,645.8	7,644.8	54.0	6.7	-90.51	-3,117.0	-460.1	456.9	397.9	59.00	7.744	4.893 CC, ES, SF
10,500.0	7,649.0	7,644.5	7,643.5	55.7	6.7	-90.28	-3,117.0	-460.1	390.9	330.2	60.70	6.440	
10,600.0	7,649.0	7,643.2	7,642.3	57.3	6.7	-90.05	-3,117.0	-460.1	341.8	279.4	62.40	5.477	
10,700.0	7,649.0	7,642.0	7,641.0	59.0	6.7	-89.82	-3,117.0	-460.1	317.6	253.5	64.11	4.954	
10,729.9	7,649.0	7,641.6	7,640.6	59.5	6.7	-89.75	-3,117.0	-460.1	316.2	251.5	64.62		
10,800.0	7,649.0	7,640.7	7,639.8	60.7	6.7	-89.60	-3,117.0	-460.1	323.8	258.0	65.81	4.921	
10,900.0	7,649.0	7,639.5	7,638.6	62.3	6.7	-89.38	-3,117.0	-460.1	359.0	291.5	67.52	5.317	
11,000.0	7,649.0	7,638.3	7,637.4	64.0	6.7	-89.16	-3,117.0	-460.1	415.8	346.6	69.23	6.006	
11,100.0	7,649.0	7,637.2	7,636.2	65.7	6.7	-88.95	-3,117.1	-460.1	486.7	415.8	70.94	6.861	

## Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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 34-34 (EXISTING) - Existing - SURVEYS													Offset Site Error: 0.0 ft
Survey Program: 740-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	7,665.7	7,631.8	77.5	15.8	-90.90	-4,552.7	-533.5	440.0	348.0	92.01	4.783	
11,900.0	7,649.0	7,664.8	7,630.9	79.2	15.8	-90.69	-4,552.7	-533.5	361.2	267.5	93.74	3.853	
12,000.0	7,649.0	7,664.0	7,630.1	80.9	15.8	-90.48	-4,552.8	-533.5	295.5	200.0	95.47	3.095	
12,100.0	7,649.0	7,663.1	7,629.2	82.6	15.8	-90.28	-4,552.8	-533.5	253.3	156.1	97.20	2.606	
12,165.7	7,649.0	7,662.5	7,628.6	83.8	15.8	-90.14	-4,552.8	-533.5	244.7	146.3	98.33	2.488 CC, ES, SF	
12,200.0	7,649.0	7,662.2	7,628.3	84.3	15.8	-90.07	-4,552.8	-533.5	247.0	148.1	98.93	2.497	
12,236.6	7,649.0	7,661.9	7,628.0	85.0	15.8	-90.00	-4,552.8	-533.5	254.7	155.1	99.56	2.558	

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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 4-4-34 (EXISTING) - Existing - SURVEYS													Offset Site Error: 0.0 ft	
Survey Program: 169-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		
9,700.0	7,649.0	7,730.1	7,660.3	42.7	19.0	91.33	-2,470.0	-962.6	426.7	369.2	57.53	7.417		
9,800.0	7,649.0	7,729.0	7,659.3	44.3	19.0	91.01	-2,470.0	-962.6	339.7	280.5	59.21	5.738		
9,900.0	7,649.0	7,728.0	7,658.2	45.9	19.0	90.68	-2,470.0	-962.6	262.1	201.2	60.88	4.305		
10,000.0	7,649.0	7,726.9	7,657.2	47.5	19.0	90.36	-2,470.0	-962.6	204.9	142.4	62.56	3.276		
10,083.5	7,649.0	7,726.0	7,656.3	48.9	19.0	90.09	-2,470.0	-962.6	187.1	123.2	63.97	2.925 CC, ES		
10,100.0	7,649.0	7,725.8	7,656.1	49.1	19.0	90.03	-2,470.0	-962.6	187.9	123.6	64.25	2.924 SF		
10,200.0	7,649.0	7,724.8	7,655.0	50.8	19.0	89.71	-2,470.0	-962.6	220.4	154.5	65.94	3.343		
10,300.0	7,649.0	7,723.7	7,654.0	52.4	19.0	89.38	-2,470.0	-962.6	286.1	218.5	67.63	4.231		
10,400.0	7,649.0	7,722.6	7,652.9	54.0	19.0	89.05	-2,470.0	-962.6	367.6	298.3	69.32	5.303		
10,500.0	7,649.0	7,721.6	7,651.8	55.7	19.0	88.73	-2,470.1	-962.6	456.6	385.5	71.02	6.429		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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 4-6-34 (EXISTING) - Existing - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 108-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		
11,000.0	7,649.0	7,759.0	7,661.4	64.0	20.7	92.34	-3,845.1	-934.2	484.8	403.2	81.57	5.943		
11,100.0	7,649.0	7,757.4	7,659.8	65.7	20.7	91.77	-3,845.2	-934.2	391.5	308.2	83.32	4.699		
11,200.0	7,649.0	7,755.9	7,658.3	67.4	20.7	91.19	-3,845.2	-934.2	302.6	217.6	85.06	3.558		
11,300.0	7,649.0	7,754.3	7,656.7	69.1	20.7	90.63	-3,845.2	-934.2	223.2	136.4	86.80	2.572		
11,400.0	7,649.0	7,752.8	7,655.2	70.7	20.7	90.06	-3,845.2	-934.2	167.6	79.1	88.53	1.893		
11,458.7	7,649.0	7,751.9	7,654.3	71.7	20.7	89.74	-3,845.2	-934.2	157.0	67.4	89.54	1.753 CC, ES, SF		
11,500.0	7,649.0	7,751.3	7,653.6	72.4	20.7	89.51	-3,845.3	-934.2	162.3	72.1	90.25	1.798		
11,600.0	7,649.0	7,749.7	7,652.1	74.1	20.7	88.95	-3,845.3	-934.2	211.2	119.2	91.97	2.296		
11,700.0	7,649.0	7,748.2	7,650.6	75.8	20.7	88.40	-3,845.3	-934.2	287.8	194.1	93.68	3.072		
11,800.0	7,649.0	7,746.7	7,649.1	77.5	20.7	87.86	-3,845.3	-934.2	375.6	280.2	95.38	3.938		
11,900.0	7,649.0	7,745.3	7,647.6	79.2	20.7	87.32	-3,845.3	-934.1	468.3	371.2	97.08	4.824		

# Anticollision Report

<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>Local Co-ordinate Reference:</b>	Well Billings 1A-34H
<b>Project:</b>	DJ Wattenberg	<b>TVD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Reference Site:</b>	S34-T2N-R68W (Billings)	<b>MD Reference:</b>	WELL @ 5008.0ft (Ensign)
<b>Site Error:</b>	0.0ft	<b>North Reference:</b>	True
<b>Reference Well:</b>	Billings 1A-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) - WOOLLEY 2 (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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
800.0	798.9	790.9	790.9	1.5	1.4	-74.24	-418.9	-285.3	497.4	494.5	2.89	172.377		
900.0	898.3	890.3	890.3	1.8	1.6	-75.52	-418.9	-285.3	494.4	491.1	3.31	149.438		
1,000.0	997.4	989.4	989.4	2.0	1.7	-77.01	-418.9	-285.3	491.3	487.6	3.75	130.848		
1,100.0	1,096.3	1,088.3	1,088.3	2.3	1.9	-78.72	-418.9	-285.3	488.2	483.9	4.23	115.502		
1,200.0	1,194.9	1,186.9	1,186.9	2.7	2.1	-80.63	-418.9	-285.3	485.2	480.4	4.73	102.670		
1,300.0	1,293.4	1,285.4	1,285.4	3.0	2.2	-82.64	-418.9	-285.3	482.6	477.4	5.23	92.230		
1,400.0	1,391.9	1,383.9	1,383.9	3.3	2.4	-84.66	-418.9	-285.3	480.7	474.9	5.74	83.666		
1,500.0	1,490.4	1,482.4	1,482.4	3.7	2.6	-86.70	-418.9	-285.3	479.3	473.1	6.26	76.568		
1,600.0	1,588.9	1,580.9	1,580.9	4.0	2.8	-88.74	-418.9	-285.3	478.6	471.8	6.78	70.630		
1,661.5	1,649.4	1,641.4	1,641.4	4.2	2.9	-90.00	-418.9	-285.3	478.5	471.4	7.09	67.450 CC		
1,700.0	1,687.3	1,679.3	1,679.3	4.4	2.9	-90.79	-418.9	-285.3	478.5	471.3	7.29	65.623 ES		
1,800.0	1,785.8	1,777.8	1,777.8	4.7	3.1	-92.83	-418.9	-285.3	479.1	471.3	7.81	61.374		
1,900.0	1,884.3	1,876.3	1,876.3	5.1	3.3	-94.87	-418.9	-285.3	480.3	472.0	8.32	57.748		
2,000.0	1,982.8	1,974.8	1,974.8	5.4	3.4	-96.90	-418.9	-285.3	482.1	473.3	8.82	54.639		
2,100.0	2,081.3	2,073.3	2,073.3	5.7	3.6	-98.91	-418.9	-285.3	484.5	475.2	9.32	51.963		
2,200.0	2,179.7	2,171.7	2,171.7	6.1	3.8	-100.89	-418.9	-285.3	487.6	477.7	9.82	49.653		
2,300.0	2,278.2	2,270.2	2,270.2	6.4	4.0	-102.85	-418.9	-285.3	491.2	480.9	10.31	47.654		
2,400.0	2,376.7	2,368.7	2,368.7	6.8	4.1	-104.78	-418.9	-285.3	495.4	484.6	10.79	45.922 SF		

## Anticollision Report

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

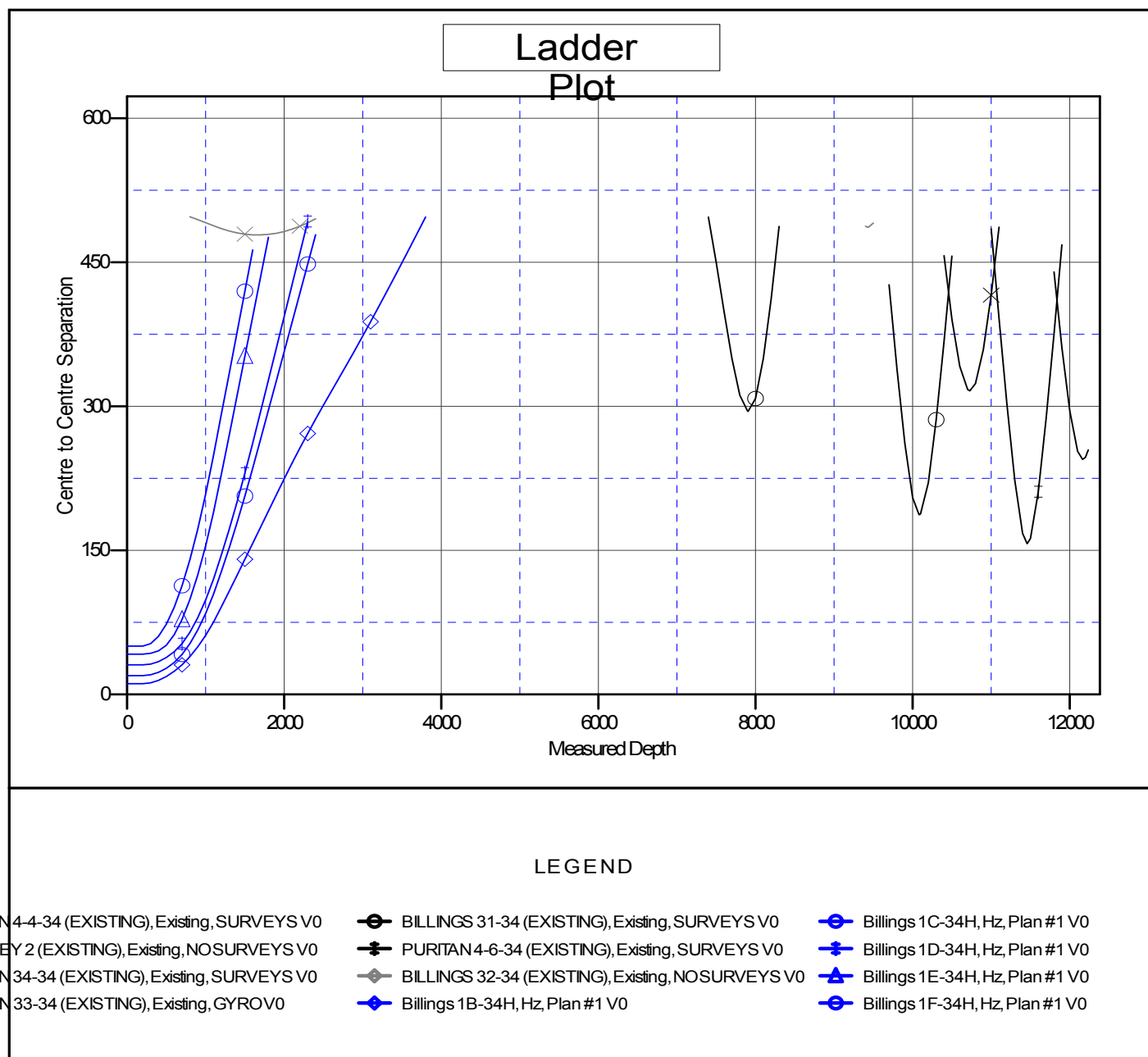
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Billings 1A-34H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°



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