



Project: DJ Wattenberg
Site: S2-T2N-R67W (Echeverria)
Well: Echeverria 2A-2H
Wellbore: Hz
Plan: Plan #1

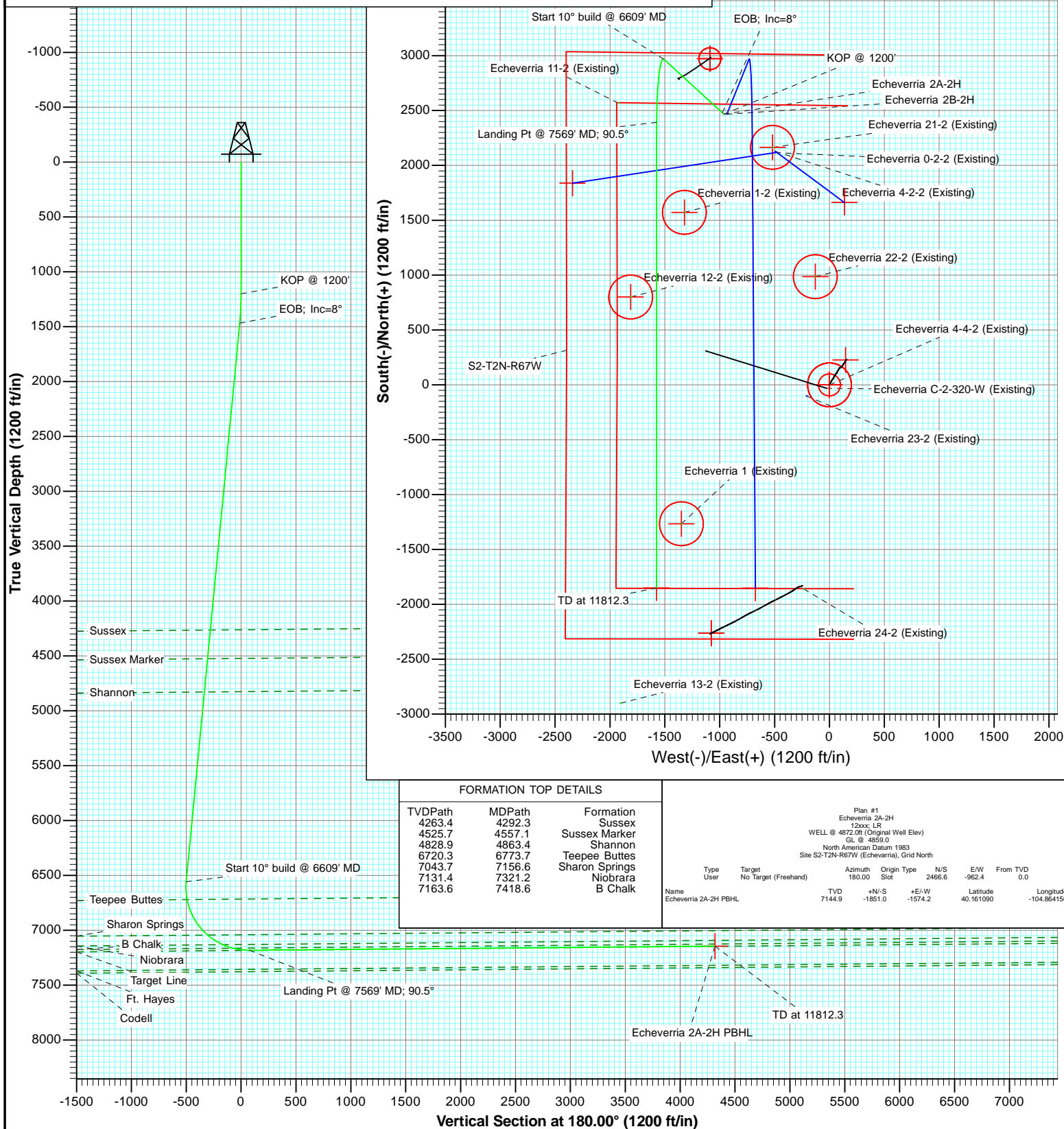


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSept	Target
1	0.0	0.00	0.00	0.0	2466.6	-962.4	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	2466.6	-962.4	0.00	0.00	0.0	
3	1469.0	8.07	312.52	1468.2	2479.4	-976.3	3.00	312.52	-12.8	
4	6609.9	8.07	312.52	6558.1	2967.2	-1508.4	0.00	0.00	-500.6	
5	7569.3	90.50	180.00	7182.0	2391.8	-1574.2	10.00	-132.18	74.8	
6	11812.3	90.50	180.00	7144.9	-1851.0	-1574.2	0.00	0.00	4317.6	Echeverria 2A-2H PBHL

Echeverria 2A-2H
Surface Location Section Line Reference

Lat : 40.172930 Long : -104.861850



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
4263.4	4292.3	Sussex
4525.7	4557.1	Sussex Marker
4828.9	4863.4	Shannon
6720.3	6773.7	Teepee Buttes
7043.7	7156.6	Sharon Springs
7131.4	7321.2	Niobrara
7163.6	7418.6	B Chalk

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
User	No Target (Freehand)	180.00	Slot	2466.6	-962.4	0.0	TVD
Name	Echeverria 2A-2H PBHL	TVD					
		7144.9					
		+N/-S					
		-1851.0					
		+E/-W					
		-1574.2					
		Latitude					
		40.181090					
		Longitude					
		-104.864150					

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site:	S2-T2N-R67W (Echevarria)	North Reference:	True
Well:	Echeverria 2A-2H	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		S2-T2N-R67W (Echevarria)			
Site Position:		Northing:	1,304,019.00 ft	Latitude:	40.166140
From:	Lat/Long	Easting:	3,179,293.88 ft	Longitude:	-104.858470
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.41 °

Well	Echeverria 2A-2H					
Well Position	+N/-S	0.0 ft	Northing:	1,306,485.60 ft	Latitude:	40.172930
	+E/-W	0.0 ft	Easting:	3,178,331.49 ft	Longitude:	-104.861850
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,859.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/31/2012	8.77	66.82	52,900

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	180.41

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,469.0	8.07	312.93	1,468.2	12.9	-13.9	3.00	3.00	0.00	312.93	
6,609.9	8.07	312.93	6,558.1	504.5	-542.4	0.00	0.00	0.00	0.00	
7,569.3	90.50	180.41	7,182.0	-70.4	-612.3	10.00	8.59	-13.81	-132.18	
11,812.3	90.50	180.41	7,144.9	-4,313.1	-642.8	0.00	0.00	0.00	0.00	Echeverria 2A-2H PB

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Project:	DJ Wattenberg	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site:	S2-T2N-R67W (Echeverria)	North Reference:	True
Well:	Echeverria 2A-2H	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	Echeverria 2A-2H North Line 554' N
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	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	KOP @ 1200'
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	
1,300.0	3.00	312.93	1,300.0	1.8	-1.9	-1.8	3.00	3.00	
1,400.0	6.00	312.93	1,399.6	7.1	-7.7	-7.1	3.00	3.00	
1,469.0	8.07	312.93	1,468.2	12.9	-13.9	-12.8	3.00	3.00	EOB; Inc=8°
1,500.0	8.07	312.93	1,498.8	15.8	-17.0	-15.7	0.00	0.00	
1,600.0	8.07	312.93	1,597.8	25.4	-27.3	-25.2	0.00	0.00	
1,700.0	8.07	312.93	1,696.8	35.0	-37.6	-34.7	0.00	0.00	
1,800.0	8.07	312.93	1,795.8	44.5	-47.9	-44.2	0.00	0.00	
1,900.0	8.07	312.93	1,894.8	54.1	-58.2	-53.7	0.00	0.00	
2,000.0	8.07	312.93	1,993.9	63.7	-68.4	-63.2	0.00	0.00	
2,100.0	8.07	312.93	2,092.9	73.2	-78.7	-72.7	0.00	0.00	
2,200.0	8.07	312.93	2,191.9	82.8	-89.0	-82.1	0.00	0.00	
2,300.0	8.07	312.93	2,290.9	92.3	-99.3	-91.6	0.00	0.00	
2,400.0	8.07	312.93	2,389.9	101.9	-109.6	-101.1	0.00	0.00	Sussex
2,500.0	8.07	312.93	2,488.9	111.5	-119.8	-110.6	0.00	0.00	
2,600.0	8.07	312.93	2,587.9	121.0	-130.1	-120.1	0.00	0.00	
2,700.0	8.07	312.93	2,686.9	130.6	-140.4	-129.6	0.00	0.00	
2,800.0	8.07	312.93	2,785.9	140.2	-150.7	-139.1	0.00	0.00	
2,900.0	8.07	312.93	2,884.9	149.7	-161.0	-148.6	0.00	0.00	
3,000.0	8.07	312.93	2,983.9	159.3	-171.2	-158.1	0.00	0.00	
3,100.0	8.07	312.93	3,083.0	168.9	-181.5	-167.5	0.00	0.00	
3,200.0	8.07	312.93	3,182.0	178.4	-191.8	-177.0	0.00	0.00	
3,300.0	8.07	312.93	3,281.0	188.0	-202.1	-186.5	0.00	0.00	
3,400.0	8.07	312.93	3,380.0	197.5	-212.4	-196.0	0.00	0.00	Sussex Marker
3,500.0	8.07	312.93	3,479.0	207.1	-222.6	-205.5	0.00	0.00	
3,600.0	8.07	312.93	3,578.0	216.7	-232.9	-215.0	0.00	0.00	
3,700.0	8.07	312.93	3,677.0	226.2	-243.2	-224.5	0.00	0.00	
3,800.0	8.07	312.93	3,776.0	235.8	-253.5	-234.0	0.00	0.00	
3,900.0	8.07	312.93	3,875.0	245.4	-263.8	-243.5	0.00	0.00	
4,000.0	8.07	312.93	3,974.0	254.9	-274.1	-252.9	0.00	0.00	
4,100.0	8.07	312.93	4,073.0	264.5	-284.3	-262.4	0.00	0.00	
4,200.0	8.07	312.93	4,172.1	274.0	-294.6	-271.9	0.00	0.00	
4,292.3	8.07	312.93	4,263.4	282.9	-304.1	-280.7	0.00	0.00	
4,300.0	8.07	312.93	4,271.1	283.6	-304.9	-281.4	0.00	0.00	Sussex Marker
4,400.0	8.07	312.93	4,370.1	293.2	-315.2	-290.9	0.00	0.00	
4,500.0	8.07	312.93	4,469.1	302.7	-325.5	-300.4	0.00	0.00	
4,557.1	8.07	312.93	4,525.7	308.2	-331.3	-305.8	0.00	0.00	
4,600.0	8.07	312.93	4,568.1	312.3	-335.7	-309.9	0.00	0.00	
4,700.0	8.07	312.93	4,667.1	321.9	-346.0	-319.4	0.00	0.00	
4,800.0	8.07	312.93	4,766.1	331.4	-356.3	-328.8	0.00	0.00	

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Well:	Echeverria 2A-2H	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
4,863.4	8.07	312.93	4,828.9	337.5	-362.8	-334.9	0.00	0.00	Shannon
4,900.0	8.07	312.93	4,865.1	341.0	-366.6	-338.3	0.00	0.00	
5,000.0	8.07	312.93	4,964.1	350.5	-376.9	-347.8	0.00	0.00	
5,100.0	8.07	312.93	5,063.1	360.1	-387.1	-357.3	0.00	0.00	
5,200.0	8.07	312.93	5,162.2	369.7	-397.4	-366.8	0.00	0.00	
5,300.0	8.07	312.93	5,261.2	379.2	-407.7	-376.3	0.00	0.00	
5,400.0	8.07	312.93	5,360.2	388.8	-418.0	-385.8	0.00	0.00	
5,500.0	8.07	312.93	5,459.2	398.4	-428.3	-395.3	0.00	0.00	
5,600.0	8.07	312.93	5,558.2	407.9	-438.5	-404.8	0.00	0.00	
5,700.0	8.07	312.93	5,657.2	417.5	-448.8	-414.2	0.00	0.00	
5,800.0	8.07	312.93	5,756.2	427.0	-459.1	-423.7	0.00	0.00	
5,900.0	8.07	312.93	5,855.2	436.6	-469.4	-433.2	0.00	0.00	
6,000.0	8.07	312.93	5,954.2	446.2	-479.7	-442.7	0.00	0.00	
6,100.0	8.07	312.93	6,053.2	455.7	-489.9	-452.2	0.00	0.00	
6,200.0	8.07	312.93	6,152.2	465.3	-500.2	-461.7	0.00	0.00	
6,300.0	8.07	312.93	6,251.3	474.9	-510.5	-471.2	0.00	0.00	
6,400.0	8.07	312.93	6,350.3	484.4	-520.8	-480.7	0.00	0.00	
6,500.0	8.07	312.93	6,449.3	494.0	-531.1	-490.2	0.00	0.00	
6,600.0	8.07	312.93	6,548.3	503.6	-541.4	-499.6	0.00	0.00	
6,609.9	8.07	312.93	6,558.1	504.5	-542.4	-500.6	0.00	0.00	Start 10° build @ 6609' MD
6,700.0	6.95	239.53	6,647.6	506.0	-551.7	-502.1	10.00	-1.24	
6,773.7	12.45	208.75	6,720.3	496.8	-559.4	-492.8	10.00	7.45	Teepee Buttes
6,800.0	14.80	203.79	6,745.8	491.3	-562.1	-487.2	10.00	8.96	
6,900.0	24.27	193.88	6,840.0	459.5	-572.2	-455.4	10.00	9.47	
7,000.0	34.03	189.38	6,927.2	411.8	-581.7	-407.7	10.00	9.76	
7,100.0	43.89	186.71	7,004.9	349.7	-590.4	-345.4	10.00	9.86	
7,156.6	49.49	185.59	7,043.7	308.7	-594.8	-304.5	10.00	9.90	Sharon Springs
7,200.0	53.80	184.86	7,070.6	274.8	-597.9	-270.5	10.00	9.91	
7,300.0	63.72	183.43	7,122.4	189.7	-604.0	-185.3	10.00	9.93	
7,321.2	65.83	183.16	7,131.4	170.5	-605.1	-166.1	10.00	9.93	Niobrara
7,400.0	73.66	182.22	7,158.7	96.7	-608.5	-92.3	10.00	9.94	
7,418.6	75.51	182.01	7,163.6	78.8	-609.2	-74.4	10.00	9.94	B Chalk
7,500.0	83.60	181.14	7,178.4	-1.1	-611.4	5.5	10.00	9.94	
7,569.3	90.50	180.41	7,182.0	-70.4	-612.3	74.8	10.00	9.95	Landing Pt @ 7569' MD; 90.5°
7,600.0	90.50	180.41	7,181.7	-101.0	-612.5	105.4	0.00	0.00	
7,700.0	90.50	180.41	7,180.8	-201.0	-613.2	205.4	0.00	0.00	
7,800.0	90.50	180.41	7,179.9	-301.0	-614.0	305.4	0.00	0.00	
7,900.0	90.50	180.41	7,179.1	-401.0	-614.7	405.4	0.00	0.00	
8,000.0	90.50	180.41	7,178.2	-501.0	-615.4	505.4	0.00	0.00	
8,100.0	90.50	180.41	7,177.3	-601.0	-616.1	605.4	0.00	0.00	
8,200.0	90.50	180.41	7,176.5	-701.0	-616.8	705.4	0.00	0.00	
8,300.0	90.50	180.41	7,175.6	-801.0	-617.6	805.4	0.00	0.00	
8,400.0	90.50	180.41	7,174.7	-901.0	-618.3	905.4	0.00	0.00	
8,500.0	90.50	180.41	7,173.8	-1,000.9	-619.0	1,005.4	0.00	0.00	
8,600.0	90.50	180.41	7,173.0	-1,100.9	-619.7	1,105.4	0.00	0.00	
8,700.0	90.50	180.41	7,172.1	-1,200.9	-620.4	1,205.4	0.00	0.00	
8,800.0	90.50	180.41	7,171.2	-1,300.9	-621.2	1,305.4	0.00	0.00	
8,900.0	90.50	180.41	7,170.3	-1,400.9	-621.9	1,405.4	0.00	0.00	
9,000.0	90.50	180.41	7,169.5	-1,500.9	-622.6	1,505.4	0.00	0.00	
9,100.0	90.50	180.41	7,168.6	-1,600.9	-623.3	1,605.4	0.00	0.00	
9,200.0	90.50	180.41	7,167.7	-1,700.9	-624.0	1,705.3	0.00	0.00	
9,300.0	90.50	180.41	7,166.9	-1,800.9	-624.8	1,805.3	0.00	0.00	

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Well:	Echeverria 2A-2H	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
9,400.0	90.50	180.41	7,166.0	-1,900.9	-625.5	1,905.3	0.00	0.00	
9,500.0	90.50	180.41	7,165.1	-2,000.9	-626.2	2,005.3	0.00	0.00	
9,600.0	90.50	180.41	7,164.2	-2,100.9	-626.9	2,105.3	0.00	0.00	
9,700.0	90.50	180.41	7,163.4	-2,200.9	-627.6	2,205.3	0.00	0.00	
9,800.0	90.50	180.41	7,162.5	-2,300.9	-628.4	2,305.3	0.00	0.00	
9,900.0	90.50	180.41	7,161.6	-2,400.9	-629.1	2,405.3	0.00	0.00	
10,000.0	90.50	180.41	7,160.7	-2,500.8	-629.8	2,505.3	0.00	0.00	
10,100.0	90.50	180.41	7,159.9	-2,600.8	-630.5	2,605.3	0.00	0.00	
10,200.0	90.50	180.41	7,159.0	-2,700.8	-631.2	2,705.3	0.00	0.00	
10,300.0	90.50	180.41	7,158.1	-2,800.8	-631.9	2,805.3	0.00	0.00	
10,400.0	90.50	180.41	7,157.3	-2,900.8	-632.7	2,905.3	0.00	0.00	
10,500.0	90.50	180.41	7,156.4	-3,000.8	-633.4	3,005.3	0.00	0.00	
10,600.0	90.50	180.41	7,155.5	-3,100.8	-634.1	3,105.3	0.00	0.00	
10,700.0	90.50	180.41	7,154.6	-3,200.8	-634.8	3,205.3	0.00	0.00	
10,800.0	90.50	180.41	7,153.8	-3,300.8	-635.5	3,305.3	0.00	0.00	
10,900.0	90.50	180.41	7,152.9	-3,400.8	-636.3	3,405.3	0.00	0.00	
11,000.0	90.50	180.41	7,152.0	-3,500.8	-637.0	3,505.3	0.00	0.00	
11,100.0	90.50	180.41	7,151.1	-3,600.8	-637.7	3,605.3	0.00	0.00	
11,200.0	90.50	180.41	7,150.3	-3,700.8	-638.4	3,705.3	0.00	0.00	
11,300.0	90.50	180.41	7,149.4	-3,800.8	-639.1	3,805.3	0.00	0.00	
11,400.0	90.50	180.41	7,148.5	-3,900.8	-639.9	3,905.3	0.00	0.00	
11,500.0	90.50	180.41	7,147.7	-4,000.8	-640.6	4,005.3	0.00	0.00	
11,600.0	90.50	180.41	7,146.8	-4,100.7	-641.3	4,105.3	0.00	0.00	
11,700.0	90.50	180.41	7,145.9	-4,200.7	-642.0	4,205.3	0.00	0.00	
11,800.0	90.50	180.41	7,145.0	-4,300.7	-642.7	4,305.2	0.00	0.00	
11,812.3	90.50	180.41	7,144.9	-4,313.1	-642.8	4,317.6	0.00	0.00	TD at 11812.3 - Echeverria 2A-2H PBHL

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Echeverria 2A-2H North	0.00	0.41	-7,144.9	0.0	0.0	1,306,485.60	3,178,331.49	40.172930	-104.861850
- plan misses target center by 7144.9ft at 0.0ft MD (0.0 TVD, 0.0 N, 0.0 E)									
- Polygon									
Point 1			-7,144.9	554.0	1,000.0	1,307,039.60	3,179,331.49		
Point 2			-7,144.9	554.0	-1,000.0	1,307,039.60	3,177,331.49		
Echeverria 2A-2H PBHL	0.00	0.41	7,144.9	-4,313.1	-642.8	1,302,168.01	3,177,719.71	40.161090	-104.864150
- plan hits target center									
- Point									

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site:	S2-T2N-R67W (Echevarria)	North Reference:	True
Well:	Echeverria 2A-2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,292.3	4,261.0	Sussex		-0.50	180.41	
4,557.1	4,523.0	Sussex Marker		-0.50	180.41	
4,863.4	4,826.0	Shannon		-0.50	180.41	
6,773.7	6,716.0	Teepee Buttes		-0.50	180.41	
7,156.6	7,041.0	Sharon Springs		-0.50	180.41	
7,321.2	7,130.0	Niobrara		-0.50	180.41	
7,418.6	7,163.0	B Chalk		-0.50	180.41	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,200.0	1,200.0	0.0	0.0	KOP @ 1200'	
1,469.0	1,468.2	12.9	-13.9	EOB; Inc=8°	
6,609.9	6,558.1	504.5	-542.4	Start 10° build @ 6609' MD	
7,569.3	7,182.0	-70.4	-612.3	Landing Pt @ 7569' MD; 90.5°	
11,812.3	7,144.9	-4,313.1	-642.8	TD at 11812.3	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S2-T2N-R67W (Echevarria)

Echeverria 2A-2H

Hz

Plan #1

Anticollision Report

31 May, 2012

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echeverria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 1,281.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	5/31/2012		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,812.3	Plan #1 (Hz)	MWD	Geolink MWD	

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
S2-T2N-R67W (Echeverria)						
Echeverria 0-2-2 (Existing) - DD - Plan #1	1,473.6	1,561.1	447.3	438.2	48.868	CC, ES
Echeverria 0-2-2 (Existing) - DD - Plan #1	8,400.0	7,584.4	815.2	779.2	22.641	SF
Echeverria 1 (Existing) - Existing - Existing	11,226.8	7,155.0	225.3	144.4	2.785	CC, ES, SF
Echeverria 11-2 (Existing) - Existing - Existing	7,401.1	7,167.0	353.3	327.9	13.897	CC, ES, SF
Echeverria 1-2 (Existing) - Existing - Existing	8,389.3	7,164.8	252.4	218.2	7.386	CC, ES
Echeverria 1-2 (Existing) - Existing - Existing	8,400.0	7,164.7	252.6	218.3	7.361	SF
Echeverria 12-2 (Existing) - Existing - Existing	9,160.5	7,171.1	237.0	191.0	5.150	CC, ES
Echeverria 12-2 (Existing) - Existing - Existing	9,200.0	7,170.7	240.3	193.6	5.150	SF
Echeverria 13-2 (Existing) - Existing - Existing	11,812.3	7,150.9	1,100.1	1,009.1	12.097	CC, ES, SF
Echeverria 14-2 (Existing) - Existing - Existing						Out of range
Echeverria 2-0-2 (Existing) - DD - DD	3,905.3	3,902.3	212.2	196.1	13.196	CC
Echeverria 2-0-2 (Existing) - DD - DD	4,000.0	3,996.6	212.7	196.1	12.815	ES
Echeverria 2-0-2 (Existing) - DD - DD	4,400.0	4,391.2	228.5	209.9	12.308	SF
Echeverria 21-2 (Existing) - Existing - Existing	1,200.0	1,180.0	536.8	532.6	129.928	CC, ES
Echeverria 21-2 (Existing) - Existing - Existing	8,400.0	7,154.7	1,215.3	1,181.0	35.431	SF
Echeverria 22-2 (Existing) - Existing - Existing						Out of range
Echeverria 23-2 (Existing) - Existing - Existing						Out of range
Echeverria 24-2 (Existing) - Existing - Existing						Out of range
Echeverria 2-8-2 (Existing) - DD - DD	11,812.3	7,261.7	644.7	551.3	6.905	CC, ES, SF
Echeverria 2B-2H - Hz - Plan #1	1,200.0	1,199.0	27.9	23.8	6.747	CC, ES
Echeverria 2B-2H - Hz - Plan #1	11,812.3	11,984.8	932.5	780.6	6.141	SF
Echeverria 4-2-2 (Existing) - DD - Plan #1	200.0	182.0	578.8	578.2	898.765	CC, ES
Echeverria 4-2-2 (Existing) - DD - Plan #1	3,100.0	2,872.6	1,280.6	1,270.3	124.439	SF
Echeverria 4-4-2 (Existing) - DD - DD						Out of range
Echeverria C-2-320-W (Existing) - Existing - Existing	9,709.9	7,384.4	659.8	604.6	11.961	CC, ES
Echeverria C-2-320-W (Existing) - Existing - Existing	9,800.0	7,376.6	665.9	609.1	11.737	SF
lone 44-2 (Existing) - DD - DD						Out of range

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 0-2-2 (Existing) - 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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	127.13	-353.3	466.7	585.6					
100.0	100.0	83.0	83.0	0.2	0.1	127.13	-353.3	466.7	585.4	585.1	0.30	1,972.628		
200.0	200.0	183.0	183.0	0.3	0.3	127.13	-353.3	466.7	585.4	584.7	0.65	906.447		
300.0	300.0	296.9	296.9	0.5	0.5	127.25	-353.6	465.1	584.4	583.3	1.02	571.514		
400.0	400.0	413.3	413.1	0.7	0.8	127.69	-354.5	458.8	580.6	579.2	1.43	406.873		
500.0	500.0	529.0	528.3	0.8	1.0	128.48	-356.0	448.0	574.0	572.2	1.87	306.456		
600.0	600.0	643.7	641.9	1.0	1.4	129.62	-358.2	432.7	564.9	562.5	2.37	238.010		
700.0	700.0	756.9	753.4	1.2	1.7	131.14	-361.0	413.3	553.2	550.3	2.93	188.594		
800.0	800.0	868.4	862.4	1.4	2.2	133.07	-364.4	389.8	539.5	535.9	3.55	151.781		
900.0	900.0	977.9	968.4	1.5	2.7	135.43	-368.3	362.8	524.0	519.7	4.23	123.838		
1,000.0	1,000.0	1,085.1	1,071.1	1.7	3.3	138.27	-372.6	332.4	507.1	502.1	4.95	102.375		
1,100.0	1,100.0	1,189.8	1,170.2	1.9	3.9	141.60	-377.4	299.1	489.4	483.7	5.70	85.787		
1,200.0	1,200.0	1,291.8	1,265.6	2.1	4.6	145.47	-382.6	263.2	471.7	465.2	6.46	72.963		
1,300.0	1,300.0	1,391.7	1,357.6	2.2	5.4	-163.23	-388.1	224.9	457.2	449.9	7.32	62.494		
1,400.0	1,399.6	1,489.9	1,446.8	2.4	6.2	-158.68	-394.0	184.0	449.2	440.8	8.35	53.806		
1,473.6	1,472.7	1,561.1	1,510.5	2.6	6.8	-155.17	-398.5	152.6	447.3	438.2	9.15	48.868 CC, ES		
1,500.0	1,498.8	1,586.4	1,532.9	2.6	7.0	-153.92	-400.1	141.0	447.9	438.5	9.44	47.442		
1,600.0	1,597.8	1,680.5	1,615.5	2.9	7.9	-148.98	-406.6	96.4	450.7	440.1	10.60	42.535		
1,700.0	1,696.8	1,770.9	1,694.1	3.1	8.8	-144.13	-412.9	52.1	457.0	445.3	11.71	39.025		
1,800.0	1,795.8	1,861.4	1,772.7	3.4	9.6	-139.42	-419.3	7.8	467.2	454.4	12.80	36.506		
1,900.0	1,894.8	1,951.8	1,851.2	3.6	10.5	-134.92	-425.7	-36.5	481.0	467.1	13.85	34.739		
2,000.0	1,993.9	2,042.2	1,929.8	3.9	11.4	-130.64	-432.0	-80.7	498.1	483.2	14.85	33.548		
2,100.0	2,092.9	2,132.6	2,008.4	4.2	12.3	-126.63	-438.4	-125.0	518.1	502.3	15.80	32.800		
2,200.0	2,191.9	2,223.0	2,086.9	4.4	13.1	-122.90	-444.7	-169.3	540.8	524.1	16.69	32.394		
2,300.0	2,290.9	2,313.4	2,165.5	4.7	14.0	-119.43	-451.1	-213.5	565.8	548.3	17.54	32.253		
2,400.0	2,389.9	2,403.8	2,244.1	5.0	14.9	-116.24	-457.5	-257.8	592.8	574.5	18.34	32.316		
2,500.0	2,488.9	2,494.2	2,322.7	5.3	15.8	-113.30	-463.8	-302.1	621.6	602.5	19.11	32.537		
2,600.0	2,587.9	2,584.6	2,401.2	5.6	16.6	-110.61	-470.2	-346.3	652.0	632.1	19.83	32.879		
2,700.0	2,686.9	2,675.0	2,479.8	5.8	17.5	-108.13	-476.5	-390.6	683.6	663.1	20.52	33.314		
2,800.0	2,785.9	2,765.4	2,558.4	6.1	18.4	-105.86	-482.9	-434.9	716.4	695.3	21.19	33.819		
2,900.0	2,884.9	2,855.9	2,637.0	6.4	19.3	-103.77	-489.3	-479.1	750.3	728.4	21.83	34.376		
3,000.0	2,983.9	2,946.3	2,715.5	6.7	20.1	-101.86	-495.6	-523.4	784.9	762.5	22.45	34.971		
3,100.0	3,083.0	3,036.7	2,794.1	7.0	21.0	-100.10	-502.0	-567.7	820.4	797.3	23.05	35.594		
3,200.0	3,182.0	3,127.1	2,872.7	7.3	21.9	-98.47	-508.3	-611.9	856.5	832.9	23.64	36.230		
3,300.0	3,281.0	3,217.5	2,951.2	7.6	22.8	-96.97	-514.7	-656.2	893.2	869.0	24.21	36.888		
3,400.0	3,380.0	3,307.9	3,029.8	7.9	23.7	-95.59	-521.1	-700.5	930.4	905.6	24.78	37.546		
3,500.0	3,479.0	3,398.3	3,108.4	8.2	24.5	-94.30	-527.4	-744.7	968.1	942.7	25.34	38.205		
3,600.0	3,578.0	3,488.7	3,187.0	8.5	25.4	-93.11	-533.8	-789.0	1,006.1	980.2	25.89	38.863		
3,700.0	3,677.0	3,579.1	3,265.5	8.8	26.3	-92.00	-540.2	-833.3	1,044.6	1,018.1	26.43	39.515		
3,800.0	3,776.0	3,669.5	3,344.1	9.1	27.2	-90.97	-546.5	-877.5	1,083.3	1,056.3	26.97	40.161		
3,900.0	3,875.0	3,759.9	3,422.7	9.3	28.1	-90.01	-552.9	-921.8	1,122.4	1,094.9	27.51	40.797		
4,000.0	3,974.0	3,850.3	3,501.3	9.6	28.9	-89.11	-559.2	-966.1	1,161.7	1,133.6	28.04	41.424		
4,100.0	4,073.0	3,940.8	3,579.8	9.9	29.8	-88.26	-565.6	-1,010.3	1,201.2	1,172.6	28.57	42.040		
4,200.0	4,172.1	4,077.9	3,700.6	10.2	31.1	-87.17	-574.9	-1,074.8	1,239.3	1,210.1	29.20	42.447		
4,300.0	4,271.1	4,222.5	3,831.0	10.5	32.2	-86.32	-583.7	-1,136.5	1,273.9	1,244.0	29.84	42.689		
7,100.0	7,004.9	7,414.5	6,987.9	17.2	37.7	41.58	-619.2	-1,383.3	1,252.0	1,219.8	32.13	38.960		
7,200.0	7,070.6	7,480.3	7,053.6	17.0	37.8	51.35	-619.2	-1,383.3	1,190.0	1,162.2	27.86	42.716		
7,300.0	7,122.4	7,532.1	7,105.4	16.9	37.8	62.61	-619.2	-1,383.3	1,123.2	1,097.1	26.12	43.007		
7,400.0	7,158.7	7,568.4	7,141.7	16.8	37.8	74.31	-619.2	-1,383.3	1,054.9	1,028.2	26.72	39.485		
7,500.0	7,178.4	7,588.1	7,161.4	16.9	37.9	84.69	-619.2	-1,383.3	988.9	961.4	27.45	36.020		
7,600.0	7,181.7	7,591.3	7,164.7	17.2	37.9	90.34	-619.2	-1,383.3	928.8	901.2	27.59	33.664		
7,700.0	7,180.8	7,590.5	7,163.8	17.7	37.9	90.28	-619.2	-1,383.3	876.3	848.1	28.16	31.122		

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 0-2-2 (Existing) - 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					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
7,800.0	7,179.9	7,589.6	7,162.9	18.3	37.9	90.21	-619.2	-1,383.3	832.5	803.6	28.91		28.796
7,900.0	7,179.1	7,588.7	7,162.1	19.0	37.9	90.15	-619.2	-1,383.3	799.0	769.2	29.83	26.787	
8,000.0	7,178.2	7,587.9	7,161.2	19.9	37.9	90.08	-619.2	-1,383.3	776.9	746.1	30.88	25.161	
8,100.0	7,177.3	7,587.0	7,160.3	20.8	37.9	90.02	-619.2	-1,383.3	767.4	735.3	32.04	23.950	
8,123.7	7,177.1	7,586.8	7,160.1	21.1	37.9	90.00	-619.2	-1,383.3	767.0	734.7	32.34	23.719	
8,200.0	7,176.5	7,586.1	7,159.5	21.9	37.9	89.95	-619.2	-1,383.3	770.8	737.5	33.29	23.152	
8,300.0	7,175.6	7,585.2	7,158.6	23.1	37.9	89.89	-619.2	-1,383.3	787.0	752.4	34.62	22.733	
8,400.0	7,174.7	7,584.4	7,157.7	24.3	37.9	89.82	-619.2	-1,383.3	815.2	779.2	36.01	22.641 SF	
8,500.0	7,173.8	7,583.5	7,156.8	25.6	37.9	89.75	-619.2	-1,383.3	854.3	816.9	37.44	22.816	
8,600.0	7,173.0	7,582.6	7,156.0	27.0	37.8	89.69	-619.2	-1,383.3	902.8	863.9	38.92	23.196	
8,700.0	7,172.1	7,581.7	7,155.1	28.4	37.8	89.62	-619.2	-1,383.3	959.4	918.9	40.43	23.727	
8,800.0	7,171.2	7,580.9	7,154.2	29.8	37.8	89.56	-619.2	-1,383.3	1,022.5	980.6	41.97	24.361	
8,900.0	7,170.3	7,580.0	7,153.3	31.3	37.8	89.49	-619.2	-1,383.3	1,091.3	1,047.7	43.54	25.064	
9,000.0	7,169.5	7,579.1	7,152.5	32.7	37.8	89.43	-619.2	-1,383.3	1,164.5	1,119.4	45.12	25.807	
9,100.0	7,168.6	7,578.3	7,151.6	34.3	37.8	89.36	-619.2	-1,383.3	1,241.5	1,194.8	46.73	26.570	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 1 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,000.0	7,160.7	7,165.7	7,165.7	48.6	12.5	-92.72	-3,729.2	-413.4	1,247.2	1,187.3	59.89	20.825		
10,100.0	7,159.9	7,164.9	7,164.9	50.3	12.5	-92.50	-3,729.2	-413.4	1,149.0	1,087.4	61.59	18.657		
10,200.0	7,159.0	7,164.0	7,164.0	51.9	12.5	-92.28	-3,729.2	-413.4	1,051.1	987.9	63.28	16.610		
10,300.0	7,158.1	7,163.1	7,163.1	53.6	12.5	-92.06	-3,729.2	-413.4	953.7	888.7	64.99	14.676		
10,400.0	7,157.3	7,162.3	7,162.3	55.3	12.5	-91.83	-3,729.2	-413.4	856.9	790.2	66.69	12.848		
10,500.0	7,156.4	7,161.4	7,161.4	56.9	12.5	-91.61	-3,729.2	-413.4	760.8	692.4	68.40	11.123		
10,600.0	7,155.5	7,160.5	7,160.5	58.6	12.5	-91.39	-3,729.2	-413.4	666.0	595.9	70.11	9.499		
10,700.0	7,154.6	7,159.6	7,159.6	60.3	12.5	-91.17	-3,729.2	-413.4	572.9	501.1	71.82	7.976		
10,800.0	7,153.8	7,158.8	7,158.8	62.0	12.5	-90.95	-3,729.2	-413.4	482.6	409.0	73.54	6.562		
10,900.0	7,152.9	7,157.9	7,157.9	63.7	12.5	-90.73	-3,729.2	-413.4	396.9	321.6	75.25	5.274		
11,000.0	7,152.0	7,157.0	7,157.0	65.4	12.5	-90.50	-3,729.2	-413.4	319.6	242.7	76.97	4.153		
11,100.0	7,151.1	7,156.1	7,156.1	67.1	12.5	-90.28	-3,729.2	-413.4	258.5	179.8	78.69	3.285		
11,200.0	7,150.3	7,155.3	7,155.3	68.8	12.5	-90.06	-3,729.2	-413.4	226.8	146.4	80.41	2.821		
11,226.8	7,150.0	7,155.0	7,155.0	69.2	12.5	-90.00	-3,729.2	-413.4	225.3	144.4	80.87	2.785	CC, ES, SF	
11,300.0	7,149.4	7,154.4	7,154.4	70.5	12.5	-89.84	-3,729.2	-413.4	236.9	154.7	82.13	2.884		
11,400.0	7,148.5	7,153.5	7,153.5	72.2	12.5	-89.62	-3,729.2	-413.4	284.2	200.3	83.85	3.389		
11,500.0	7,147.7	7,152.7	7,152.7	73.9	12.5	-89.39	-3,729.2	-413.4	354.1	268.5	85.57	4.138		
11,600.0	7,146.8	7,151.8	7,151.8	75.6	12.5	-89.17	-3,729.2	-413.4	435.9	348.6	87.29	4.994		
11,700.0	7,145.9	7,150.9	7,150.9	77.3	12.5	-88.95	-3,729.2	-413.4	524.1	435.1	89.01	5.888		
11,800.0	7,145.0	7,150.0	7,150.0	79.0	12.5	-88.73	-3,729.2	-413.4	615.9	525.2	90.73	6.788		
11,812.3	7,144.9	7,149.9	7,149.9	79.2	12.5	-88.70	-3,729.2	-413.4	627.4	536.5	90.94	6.899		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 11-2 (Existing) - Existing - Existing														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			
0.0	0.0	8.0	8.0	0.0	0.0	-83.52	109.3	-961.6	967.8						
100.0	100.0	108.0	108.0	0.2	0.2	-83.52	109.3	-961.6	967.8	967.4	0.34	2,843.496			
200.0	200.0	208.0	208.0	0.3	0.4	-83.52	109.3	-961.6	967.8	967.1	0.69	1,403.752			
300.0	300.0	308.0	308.0	0.5	0.5	-83.52	109.3	-961.6	967.8	966.7	1.04	931.902			
400.0	400.0	408.0	408.0	0.7	0.7	-83.52	109.3	-961.6	967.8	966.4	1.39	697.462			
500.0	500.0	508.0	508.0	0.8	0.9	-83.52	109.3	-961.6	967.8	966.0	1.74	557.268			
600.0	600.0	608.0	608.0	1.0	1.1	-83.52	109.3	-961.6	967.8	965.7	2.09	464.002			
700.0	700.0	708.0	708.0	1.2	1.2	-83.52	109.3	-961.6	967.8	965.3	2.43	397.478			
800.0	800.0	808.0	808.0	1.4	1.4	-83.52	109.3	-961.6	967.8	965.0	2.78	347.638			
900.0	900.0	908.0	908.0	1.5	1.6	-83.52	109.3	-961.6	967.8	964.6	3.13	308.904			
1,000.0	1,000.0	1,008.0	1,008.0	1.7	1.8	-83.52	109.3	-961.6	967.8	964.3	3.48	277.936			
1,100.0	1,100.0	1,108.0	1,108.0	1.9	1.9	-83.52	109.3	-961.6	967.8	963.9	3.83	252.611			
1,200.0	1,200.0	1,208.0	1,208.0	2.1	2.1	-83.52	109.3	-961.6	967.8	963.6	4.18	231.516			
1,300.0	1,300.0	1,308.0	1,308.0	2.2	2.3	-36.57	109.3	-961.6	965.6	961.1	4.53	213.305			
1,400.0	1,399.6	1,407.6	1,407.6	2.4	2.5	-36.97	109.3	-961.6	959.4	954.5	4.87	196.897			
1,500.0	1,498.8	1,506.8	1,506.8	2.6	2.6	-37.55	109.3	-961.6	949.1	943.9	5.22	181.659			
1,600.0	1,597.8	1,605.8	1,605.8	2.9	2.8	-38.07	109.3	-961.6	938.0	932.4	5.59	167.705			
1,700.0	1,696.8	1,704.8	1,704.8	3.1	3.0	-38.61	109.3	-961.6	927.0	921.0	5.97	155.326			
1,800.0	1,795.8	1,803.8	1,803.8	3.4	3.1	-39.15	109.3	-961.6	916.0	909.6	6.35	144.294			
1,900.0	1,894.8	1,902.8	1,902.8	3.6	3.3	-39.71	109.3	-961.6	905.1	898.4	6.73	134.419			
2,000.0	1,993.9	2,001.9	2,001.9	3.9	3.5	-40.28	109.3	-961.6	894.3	887.2	7.12	125.540			
2,100.0	2,092.9	2,100.9	2,100.9	4.2	3.7	-40.87	109.3	-961.6	883.6	876.1	7.52	117.524			
2,200.0	2,191.9	2,199.9	2,199.9	4.4	3.8	-41.47	109.3	-961.6	873.0	865.0	7.92	110.259			
2,300.0	2,290.9	2,298.9	2,298.9	4.7	4.0	-42.09	109.3	-961.6	862.4	854.1	8.32	103.650			
2,400.0	2,389.9	2,397.9	2,397.9	5.0	4.2	-42.72	109.3	-961.6	852.0	843.3	8.73	97.619			
2,500.0	2,488.9	2,496.9	2,496.9	5.3	4.4	-43.36	109.3	-961.6	841.7	832.6	9.14	92.095			
2,600.0	2,587.9	2,595.9	2,595.9	5.6	4.5	-44.02	109.3	-961.6	831.5	822.0	9.56	87.023			
2,700.0	2,686.9	2,694.9	2,694.9	5.8	4.7	-44.70	109.3	-961.6	821.4	811.5	9.97	82.352			
2,800.0	2,785.9	2,793.9	2,793.9	6.1	4.9	-45.39	109.3	-961.6	811.5	801.1	10.40	78.039			
2,900.0	2,884.9	2,892.9	2,892.9	6.4	5.0	-46.10	109.3	-961.6	801.6	790.8	10.83	74.048			
3,000.0	2,983.9	2,991.9	2,991.9	6.7	5.2	-46.83	109.3	-961.6	791.9	780.6	11.26	70.346			
3,100.0	3,083.0	3,091.0	3,091.0	7.0	5.4	-47.58	109.3	-961.6	782.3	770.6	11.69	66.906			
3,200.0	3,182.0	3,190.0	3,190.0	7.3	5.6	-48.34	109.3	-961.6	772.9	760.7	12.13	63.703			
3,300.0	3,281.0	3,289.0	3,289.0	7.6	5.7	-49.13	109.3	-961.6	763.5	751.0	12.58	60.716			
3,400.0	3,380.0	3,388.0	3,388.0	7.9	5.9	-49.93	109.3	-961.6	754.4	741.3	13.02	57.926			
3,500.0	3,479.0	3,487.0	3,487.0	8.2	6.1	-50.75	109.3	-961.6	745.4	731.9	13.47	55.315			
3,600.0	3,578.0	3,586.0	3,586.0	8.5	6.3	-51.59	109.3	-961.6	736.5	722.6	13.93	52.870			
3,700.0	3,677.0	3,685.0	3,685.0	8.8	6.4	-52.45	109.3	-961.6	727.8	713.4	14.39	50.576			
3,800.0	3,776.0	3,784.0	3,784.0	9.1	6.6	-53.33	109.3	-961.6	719.3	704.4	14.85	48.423			
3,900.0	3,875.0	3,883.0	3,883.0	9.3	6.8	-54.23	109.3	-961.6	710.9	695.6	15.32	46.399			
4,000.0	3,974.0	3,982.0	3,982.0	9.6	6.9	-55.16	109.3	-961.6	702.8	687.0	15.79	44.495			
4,100.0	4,073.0	4,081.0	4,081.0	9.9	7.1	-56.10	109.3	-961.6	694.8	678.5	16.27	42.704			
4,200.0	4,172.1	4,180.1	4,180.1	10.2	7.3	-57.06	109.3	-961.6	687.0	670.2	16.75	41.015			
4,300.0	4,271.1	4,279.1	4,279.1	10.5	7.5	-58.05	109.3	-961.6	679.4	662.2	17.23	39.424			
4,400.0	4,370.1	4,378.1	4,378.1	10.8	7.6	-59.06	109.3	-961.6	672.0	654.3	17.72	37.924			
4,500.0	4,469.1	4,477.1	4,477.1	11.1	7.8	-60.09	109.3	-961.6	664.9	646.7	18.21	36.509			
4,600.0	4,568.1	4,576.1	4,576.1	11.4	8.0	-61.14	109.3	-961.6	657.9	639.2	18.71	35.173			
4,700.0	4,667.1	4,675.1	4,675.1	11.7	8.2	-62.21	109.3	-961.6	651.2	632.0	19.20	33.912			
4,800.0	4,766.1	4,774.1	4,774.1	12.0	8.3	-63.31	109.3	-961.6	644.7	625.0	19.70	32.722			
4,900.0	4,865.1	4,873.1	4,873.1	12.3	8.5	-64.43	109.3	-961.6	638.5	618.3	20.21	31.598			
5,000.0	4,964.1	4,972.1	4,972.1	12.6	8.7	-65.56	109.3	-961.6	632.5	611.8	20.71	30.538			
5,100.0	5,063.1	5,071.1	5,071.1	12.9	8.9	-66.72	109.3	-961.6	626.8	605.6	21.22	29.537			

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 11-2 (Existing) - Existing - Existing														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	5,162.2	5,170.2	5,170.2	13.2	9.0	-67.90	109.3	-961.6	621.3	599.6	21.73	28.592			
5,300.0	5,261.2	5,269.2	5,269.2	13.5	9.2	-69.10	109.3	-961.6	616.1	593.9	22.24	27.701			
5,400.0	5,360.2	5,368.2	5,368.2	13.8	9.4	-70.32	109.3	-961.6	611.2	588.5	22.75	26.861			
5,500.0	5,459.2	5,467.2	5,467.2	14.1	9.5	-71.56	109.3	-961.6	606.6	583.3	23.27	26.070			
5,600.0	5,558.2	5,566.2	5,566.2	14.4	9.7	-72.81	109.3	-961.6	602.3	578.5	23.78	25.324			
5,700.0	5,657.2	5,665.2	5,665.2	14.7	9.9	-74.09	109.3	-961.6	598.2	573.9	24.30	24.622			
5,800.0	5,756.2	5,764.2	5,764.2	15.0	10.1	-75.38	109.3	-961.6	594.5	569.7	24.81	23.962			
5,900.0	5,855.2	5,863.2	5,863.2	15.3	10.2	-76.68	109.3	-961.6	591.1	565.8	25.32	23.342			
6,000.0	5,954.2	5,962.2	5,962.2	15.6	10.4	-78.00	109.3	-961.6	588.0	562.1	25.83	22.761			
6,100.0	6,053.2	6,061.2	6,061.2	15.9	10.6	-79.33	109.3	-961.6	585.2	558.8	26.34	22.215			
6,200.0	6,152.2	6,160.2	6,160.2	16.2	10.8	-80.68	109.3	-961.6	582.7	555.9	26.85	21.705			
6,300.0	6,251.3	6,259.3	6,259.3	16.5	10.9	-82.03	109.3	-961.6	580.6	553.2	27.35	21.227			
6,400.0	6,350.3	6,358.3	6,358.3	16.8	11.1	-83.39	109.3	-961.6	578.8	550.9	27.85	20.782			
6,500.0	6,449.3	6,457.3	6,457.3	17.1	11.3	-84.76	109.3	-961.6	577.3	549.0	28.35	20.367			
6,600.0	6,548.3	6,556.3	6,556.3	17.4	11.4	-86.14	109.3	-961.6	576.2	547.4	28.84	19.981			
6,700.0	6,647.6	6,655.6	6,655.6	17.6	11.6	-13.70	109.3	-961.6	570.4	541.4	29.07	19.624			
6,800.0	6,745.8	6,753.8	6,753.8	17.7	11.8	23.19	109.3	-961.6	552.7	523.9	28.77	19.210			
6,900.0	6,840.0	6,848.0	6,848.0	17.6	12.0	36.65	109.3	-961.6	523.7	495.7	28.03	18.682			
7,000.0	6,927.2	6,935.2	6,935.2	17.4	12.1	47.46	109.3	-961.6	485.6	458.5	27.06	17.947			
7,100.0	7,004.9	7,012.9	7,012.9	17.2	12.2	59.17	109.3	-961.6	442.2	416.0	26.18	16.894			
7,200.0	7,070.6	7,078.6	7,078.6	17.0	12.4	71.64	109.3	-961.6	399.6	374.0	25.65	15.577			
7,300.0	7,122.4	7,130.4	7,130.4	16.9	12.4	82.72	109.3	-961.6	366.5	341.1	25.45	14.400			
7,400.0	7,158.7	7,166.7	7,166.7	16.8	12.5	89.95	109.3	-961.6	353.3	327.9	25.42	13.898			
7,401.1	7,159.0	7,167.0	7,167.0	16.8	12.5	90.00	109.3	-961.6	353.3	327.9	25.42	13.897 CC, ES, SF			
7,500.0	7,178.4	7,186.4	7,186.4	16.9	12.5	91.87	109.3	-961.6	367.2	341.6	25.58	14.355			
7,600.0	7,181.7	7,189.7	7,189.7	17.2	12.5	89.70	109.3	-961.6	407.5	381.5	25.97	15.694			
7,700.0	7,180.8	7,188.8	7,188.8	17.7	12.5	89.56	109.3	-961.6	466.5	440.0	26.53	17.584			
7,800.0	7,179.9	7,187.9	7,187.9	18.3	12.5	89.42	109.3	-961.6	537.7	510.5	27.28	19.710			
7,900.0	7,179.1	7,187.1	7,187.1	19.0	12.5	89.28	109.3	-961.6	617.0	588.8	28.20	21.883			
8,000.0	7,178.2	7,186.2	7,186.2	19.9	12.5	89.13	109.3	-961.6	701.6	672.4	29.24	23.992			
8,100.0	7,177.3	7,185.3	7,185.3	20.8	12.5	88.99	109.3	-961.6	789.8	759.4	30.40	25.978			
8,200.0	7,176.5	7,184.5	7,184.5	21.9	12.5	88.85	109.3	-961.6	880.5	848.9	31.65	27.820			
8,300.0	7,175.6	7,183.6	7,183.6	23.1	12.5	88.71	109.3	-961.6	973.1	940.1	32.97	29.510			
8,400.0	7,174.7	7,182.7	7,182.7	24.3	12.5	88.56	109.3	-961.6	1,067.0	1,032.6	34.36	31.055			
8,500.0	7,173.8	7,181.8	7,181.8	25.6	12.5	88.42	109.3	-961.6	1,161.9	1,126.1	35.79	32.464			
8,600.0	7,173.0	7,181.0	7,181.0	27.0	12.5	88.28	109.3	-961.6	1,257.6	1,220.3	37.26	33.749			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 1-2 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program:		0-MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-157.70	-892.1	-365.8	964.3					
100.0	100.0	90.0	90.0	0.2	0.2	-157.70	-892.1	-365.8	964.2	963.9	0.31	3,121.002		
200.0	200.0	190.0	190.0	0.3	0.3	-157.70	-892.1	-365.8	964.2	963.6	0.66	1,465.394		
300.0	300.0	290.0	290.0	0.5	0.5	-157.70	-892.1	-365.8	964.2	963.2	1.01	957.458		
400.0	400.0	390.0	390.0	0.7	0.7	-157.70	-892.1	-365.8	964.2	962.9	1.36	711.008		
500.0	500.0	490.0	490.0	0.8	0.9	-157.70	-892.1	-365.8	964.2	962.5	1.71	565.459		
600.0	600.0	590.0	590.0	1.0	1.0	-157.70	-892.1	-365.8	964.2	962.2	2.05	469.374		
700.0	700.0	690.0	690.0	1.2	1.2	-157.70	-892.1	-365.8	964.2	961.8	2.40	401.201		
800.0	800.0	790.0	790.0	1.4	1.4	-157.70	-892.1	-365.8	964.2	961.5	2.75	350.319		
900.0	900.0	890.0	890.0	1.5	1.6	-157.70	-892.1	-365.8	964.2	961.1	3.10	310.891		
1,000.0	1,000.0	990.0	990.0	1.7	1.7	-157.70	-892.1	-365.8	964.2	960.8	3.45	279.440		
1,100.0	1,100.0	1,090.0	1,090.0	1.9	1.9	-157.70	-892.1	-365.8	964.2	960.4	3.80	253.768		
1,200.0	1,200.0	1,190.0	1,190.0	2.1	2.1	-157.70	-892.1	-365.8	964.2	960.1	4.15	232.416		
1,300.0	1,300.0	1,290.0	1,290.0	2.2	2.3	-110.75	-892.1	-365.8	965.1	960.6	4.50	214.535		
1,400.0	1,399.6	1,389.6	1,389.6	2.4	2.4	-111.11	-892.1	-365.8	967.9	963.1	4.86	199.271		
1,500.0	1,498.8	1,488.8	1,488.8	2.6	2.6	-111.72	-892.1	-365.8	972.7	967.4	5.23	185.827		
1,600.0	1,597.8	1,587.8	1,587.8	2.9	2.8	-112.48	-892.1	-365.8	978.0	972.4	5.63	173.839		
1,700.0	1,696.8	1,686.8	1,686.8	3.1	2.9	-113.23	-892.1	-365.8	983.5	977.5	6.03	163.170		
1,800.0	1,795.8	1,785.8	1,785.8	3.4	3.1	-113.97	-892.1	-365.8	989.1	982.7	6.44	153.684		
1,900.0	1,894.8	1,884.8	1,884.8	3.6	3.3	-114.70	-892.1	-365.8	995.0	988.1	6.85	145.242		
2,000.0	1,993.9	1,983.9	1,983.9	3.9	3.5	-115.42	-892.1	-365.8	1,001.0	993.7	7.27	137.712		
2,100.0	2,092.9	2,082.9	2,082.9	4.2	3.6	-116.14	-892.1	-365.8	1,007.1	999.4	7.69	130.975		
2,200.0	2,191.9	2,181.9	2,181.9	4.4	3.8	-116.85	-892.1	-365.8	1,013.4	1,005.3	8.11	124.930		
2,300.0	2,290.9	2,280.9	2,280.9	4.7	4.0	-117.55	-892.1	-365.8	1,019.9	1,011.4	8.54	119.486		
2,400.0	2,389.9	2,379.9	2,379.9	5.0	4.2	-118.23	-892.1	-365.8	1,026.5	1,017.6	8.96	114.567		
2,500.0	2,488.9	2,478.9	2,478.9	5.3	4.3	-118.92	-892.1	-365.8	1,033.3	1,023.9	9.38	110.107		
2,600.0	2,587.9	2,577.9	2,577.9	5.6	4.5	-119.59	-892.1	-365.8	1,040.2	1,030.4	9.81	106.051		
2,700.0	2,686.9	2,676.9	2,676.9	5.8	4.7	-120.25	-892.1	-365.8	1,047.3	1,037.0	10.23	102.351		
2,800.0	2,785.9	2,775.9	2,775.9	6.1	4.8	-120.90	-892.1	-365.8	1,054.5	1,043.8	10.65	98.965		
2,900.0	2,884.9	2,874.9	2,874.9	6.4	5.0	-121.55	-892.1	-365.8	1,061.8	1,050.7	11.08	95.859		
3,000.0	2,983.9	2,973.9	2,973.9	6.7	5.2	-122.19	-892.1	-365.8	1,069.3	1,057.8	11.50	93.001		
3,100.0	3,083.0	3,073.0	3,073.0	7.0	5.4	-122.81	-892.1	-365.8	1,076.9	1,064.9	11.92	90.366		
3,200.0	3,182.0	3,172.0	3,172.0	7.3	5.5	-123.43	-892.1	-365.8	1,084.6	1,072.3	12.33	87.929		
3,300.0	3,281.0	3,271.0	3,271.0	7.6	5.7	-124.04	-892.1	-365.8	1,092.4	1,079.7	12.75	85.672		
3,400.0	3,380.0	3,370.0	3,370.0	7.9	5.9	-124.65	-892.1	-365.8	1,100.4	1,087.3	13.17	83.577		
3,500.0	3,479.0	3,469.0	3,469.0	8.2	6.1	-125.24	-892.1	-365.8	1,108.5	1,094.9	13.58	81.628		
3,600.0	3,578.0	3,568.0	3,568.0	8.5	6.2	-125.82	-892.1	-365.8	1,116.7	1,102.7	13.99	79.812		
3,700.0	3,677.0	3,667.0	3,667.0	8.8	6.4	-126.40	-892.1	-365.8	1,125.1	1,110.7	14.40	78.116		
3,800.0	3,776.0	3,766.0	3,766.0	9.1	6.6	-126.97	-892.1	-365.8	1,133.5	1,118.7	14.81	76.531		
3,900.0	3,875.0	3,865.0	3,865.0	9.3	6.7	-127.53	-892.1	-365.8	1,142.1	1,126.8	15.22	75.046		
4,000.0	3,974.0	3,964.0	3,964.0	9.6	6.9	-128.08	-892.1	-365.8	1,150.7	1,135.1	15.62	73.653		
4,100.0	4,073.0	4,063.0	4,063.0	9.9	7.1	-128.62	-892.1	-365.8	1,159.5	1,143.4	16.03	72.344		
4,200.0	4,172.1	4,162.1	4,162.1	10.2	7.3	-129.16	-892.1	-365.8	1,168.3	1,151.9	16.43	71.113		
4,300.0	4,271.1	4,261.1	4,261.1	10.5	7.4	-129.68	-892.1	-365.8	1,177.3	1,160.5	16.83	69.954		
4,400.0	4,370.1	4,360.1	4,360.1	10.8	7.6	-130.20	-892.1	-365.8	1,186.4	1,169.2	17.23	68.861		
4,500.0	4,469.1	4,459.1	4,459.1	11.1	7.8	-130.71	-892.1	-365.8	1,195.5	1,177.9	17.63	67.829		
4,600.0	4,568.1	4,558.1	4,558.1	11.4	8.0	-131.22	-892.1	-365.8	1,204.8	1,186.8	18.02	66.854		
4,700.0	4,667.1	4,657.1	4,657.1	11.7	8.1	-131.71	-892.1	-365.8	1,214.1	1,195.7	18.42	65.931		
4,800.0	4,766.1	4,756.1	4,756.1	12.0	8.3	-132.20	-892.1	-365.8	1,223.6	1,204.8	18.81	65.057		
4,900.0	4,865.1	4,855.1	4,855.1	12.3	8.5	-132.68	-892.1	-365.8	1,233.1	1,213.9	19.20	64.229		
5,000.0	4,964.1	4,954.1	4,954.1	12.6	8.6	-133.15	-892.1	-365.8	1,242.7	1,223.1	19.59	63.442		
5,100.0	5,063.1	5,053.1	5,053.1	12.9	8.8	-133.62	-892.1	-365.8	1,252.4	1,232.4	19.98	62.696		

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 1-2 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,200.0	5,162.2	5,152.2	5,152.2	13.2	9.0	-134.08	-892.1	-365.8	1,262.2	1,241.8	20.36	61.986		
5,300.0	5,261.2	5,251.2	5,251.2	13.5	9.2	-134.53	-892.1	-365.8	1,272.1	1,251.3	20.75	61.310		
7,100.0	7,004.9	6,994.9	6,994.9	17.2	12.2	-22.93	-892.1	-365.8	1,261.9	1,239.9	22.00	57.357		
7,200.0	7,070.6	7,060.6	7,060.6	17.0	12.3	-26.05	-892.1	-365.8	1,189.8	1,169.3	20.53	57.949		
7,300.0	7,122.4	7,112.4	7,112.4	16.9	12.4	-32.66	-892.1	-365.8	1,107.7	1,087.9	19.82	55.878		
7,400.0	7,158.7	7,148.7	7,148.7	16.8	12.5	-45.57	-892.1	-365.8	1,018.2	997.2	20.99	48.510		
7,500.0	7,178.4	7,168.4	7,168.4	16.9	12.5	-69.44	-892.1	-365.8	924.2	899.9	24.34	37.970		
7,600.0	7,181.7	7,171.7	7,171.7	17.2	12.5	-91.56	-892.1	-365.8	828.7	802.8	25.94	31.943		
7,700.0	7,180.8	7,170.8	7,170.8	17.7	12.5	-91.37	-892.1	-365.8	734.1	707.6	26.51	27.696		
7,800.0	7,179.9	7,169.9	7,169.9	18.3	12.5	-91.17	-892.1	-365.8	641.1	613.9	27.26	23.523		
7,900.0	7,179.1	7,169.1	7,169.1	19.0	12.5	-90.97	-892.1	-365.8	550.6	522.4	28.17	19.548		
8,000.0	7,178.2	7,168.2	7,168.2	19.9	12.5	-90.77	-892.1	-365.8	464.0	434.8	29.21	15.884		
8,100.0	7,177.3	7,167.3	7,167.3	20.8	12.5	-90.57	-892.1	-365.8	384.0	353.6	30.37	12.643		
8,200.0	7,176.5	7,166.5	7,166.5	21.9	12.5	-90.38	-892.1	-365.8	315.5	283.9	31.62	9.980		
8,300.0	7,175.6	7,165.6	7,165.6	23.1	12.5	-90.18	-892.1	-365.8	267.8	234.8	32.94	8.129		
8,389.3	7,174.8	7,164.8	7,164.8	24.2	12.5	-90.00	-892.1	-365.8	252.4	218.2	34.17	7.386 CC, ES		
8,400.0	7,174.7	7,164.7	7,164.7	24.3	12.5	-89.98	-892.1	-365.8	252.6	218.3	34.32	7.361 SF		
8,500.0	7,173.8	7,163.8	7,163.8	25.6	12.5	-89.78	-892.1	-365.8	275.6	239.8	35.75	7.708		
8,600.0	7,173.0	7,163.0	7,163.0	27.0	12.5	-89.58	-892.1	-365.8	328.7	291.5	37.23	8.831		
8,700.0	7,172.1	7,162.1	7,162.1	28.4	12.5	-89.38	-892.1	-365.8	400.2	361.5	38.73	10.333		
8,800.0	7,171.2	7,161.2	7,161.2	29.8	12.5	-89.19	-892.1	-365.8	482.0	441.7	40.27	11.970		
8,900.0	7,170.3	7,160.3	7,160.3	31.3	12.5	-88.99	-892.1	-365.8	569.6	527.8	41.83	13.618		
9,000.0	7,169.5	7,159.5	7,159.5	32.7	12.5	-88.79	-892.1	-365.8	660.7	617.3	43.41	15.222		
9,100.0	7,168.6	7,158.6	7,158.6	34.3	12.5	-88.59	-892.1	-365.8	754.1	709.1	45.00	16.757		
9,200.0	7,167.7	7,157.7	7,157.7	35.8	12.5	-88.39	-892.1	-365.8	849.0	802.4	46.61	18.214		
9,300.0	7,166.9	7,156.9	7,156.9	37.4	12.5	-88.20	-892.1	-365.8	944.9	896.7	48.23	19.591		
9,400.0	7,166.0	7,156.0	7,156.0	38.9	12.5	-88.00	-892.1	-365.8	1,041.6	991.8	49.87	20.889		
9,500.0	7,165.1	7,155.1	7,155.1	40.5	12.5	-87.80	-892.1	-365.8	1,138.9	1,087.4	51.51	22.112		
9,600.0	7,164.2	7,154.2	7,154.2	42.1	12.5	-87.60	-892.1	-365.8	1,236.6	1,183.5	53.16	23.264		

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 12-2 (Existing) - Existing - Existing													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			
8,000.0	7,178.2	7,181.2	7,181.2	19.9	12.5	92.45	-1,659.7	-860.7	1,184.4	1,155.2	29.18	40.583		
8,100.0	7,177.3	7,180.3	7,180.3	20.8	12.5	92.24	-1,659.7	-860.7	1,086.6	1,056.2	30.35	35.804		
8,200.0	7,176.5	7,179.5	7,179.5	21.9	12.5	92.03	-1,659.7	-860.7	989.2	957.6	31.60	31.302		
8,300.0	7,175.6	7,178.6	7,178.6	23.1	12.5	91.81	-1,659.7	-860.7	892.5	859.5	32.93	27.101		
8,400.0	7,174.7	7,177.7	7,177.7	24.3	12.5	91.60	-1,659.7	-860.7	796.5	762.2	34.32	23.208		
8,500.0	7,173.8	7,176.8	7,176.8	25.6	12.5	91.39	-1,659.7	-860.7	701.7	665.9	35.76	19.623		
8,600.0	7,173.0	7,176.0	7,176.0	27.0	12.5	91.18	-1,659.7	-860.7	608.5	571.3	37.24	16.341		
8,700.0	7,172.1	7,175.1	7,175.1	28.4	12.5	90.97	-1,659.7	-860.7	517.9	479.1	38.75	13.364		
8,800.0	7,171.2	7,174.2	7,174.2	29.8	12.5	90.76	-1,659.7	-860.7	431.4	391.1	40.29	10.706		
8,900.0	7,170.3	7,173.3	7,173.3	31.3	12.5	90.55	-1,659.7	-860.7	352.1	310.3	41.86	8.413		
9,000.0	7,169.5	7,172.5	7,172.5	32.7	12.5	90.34	-1,659.7	-860.7	286.2	242.8	43.44	6.588		
9,100.0	7,168.6	7,171.6	7,171.6	34.3	12.5	90.13	-1,659.7	-860.7	244.6	199.5	45.04	5.430		
9,160.5	7,168.1	7,171.1	7,171.1	35.2	12.5	90.00	-1,659.7	-860.7	237.0	191.0	46.02	5.150 CC, ES		
9,200.0	7,167.7	7,170.7	7,170.7	35.8	12.5	89.92	-1,659.7	-860.7	240.3	193.6	46.66	5.150 SF		
9,300.0	7,166.9	7,169.9	7,169.9	37.4	12.5	89.71	-1,659.7	-860.7	275.0	226.7	48.29	5.695		
9,400.0	7,166.0	7,169.0	7,169.0	38.9	12.5	89.49	-1,659.7	-860.7	337.0	287.0	49.93	6.749		
9,500.0	7,165.1	7,168.1	7,168.1	40.5	12.5	89.28	-1,659.7	-860.7	414.1	362.5	51.58	8.028		
9,600.0	7,164.2	7,167.2	7,167.2	42.1	12.5	89.07	-1,659.7	-860.7	499.3	446.1	53.23	9.380		
9,700.0	7,163.4	7,166.4	7,166.4	43.7	12.5	88.86	-1,659.7	-860.7	589.3	534.4	54.90	10.735		
9,800.0	7,162.5	7,165.5	7,165.5	45.4	12.5	88.65	-1,659.7	-860.7	682.0	625.5	56.56	12.057		
9,900.0	7,161.6	7,164.6	7,164.6	47.0	12.5	88.44	-1,659.7	-860.7	776.6	718.3	58.24	13.334		
10,000.0	7,160.7	7,163.7	7,163.7	48.6	12.5	88.23	-1,659.7	-860.7	872.3	812.4	59.92	14.559		
10,100.0	7,159.9	7,162.9	7,162.9	50.3	12.5	88.02	-1,659.7	-860.7	968.9	907.3	61.60	15.730		
10,200.0	7,159.0	7,162.0	7,162.0	51.9	12.5	87.81	-1,659.7	-860.7	1,066.2	1,002.9	63.28	16.848		
10,300.0	7,158.1	7,161.1	7,161.1	53.6	12.5	87.60	-1,659.7	-860.7	1,163.9	1,098.9	64.97	17.914		
10,400.0	7,157.3	7,160.3	7,160.3	55.3	12.5	87.39	-1,659.7	-860.7	1,261.9	1,195.3	66.66	18.931		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 13-2 (Existing) - Existing - Existing													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	
11,700.0	7,145.9	7,151.9	7,151.9	77.3	12.5	91.77	-5,360.4	-979.4	1,207.7	1,118.7	88.99	13.572	
11,800.0	7,145.0	7,151.0	7,151.0	79.0	12.5	91.61	-5,360.4	-979.4	1,111.8	1,021.1	90.72	12.256	
11,812.3	7,144.9	7,150.9	7,150.9	79.2	12.5	91.59	-5,360.4	-979.4	1,100.1	1,009.1	90.93	12.097 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 2-0-2 (Existing) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 844-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		
0.0	0.0	25.6	25.6	0.0	0.0	-51.46	320.6	-402.4	514.5					
100.0	100.0	123.8	123.8	0.2	0.2	-51.46	320.7	-402.6	514.7	514.4	0.37	1,392.084		
200.0	200.0	222.0	222.0	0.3	0.4	-51.47	321.0	-403.1	515.3	514.6	0.72	718.525		
300.0	300.0	320.2	320.2	0.5	0.6	-51.48	321.5	-403.9	516.3	515.2	1.06	484.928		
400.0	400.0	418.5	418.4	0.7	0.7	-51.50	322.2	-405.0	517.6	516.2	1.41	366.531		
500.0	500.0	516.7	516.6	0.8	0.9	-51.52	323.0	-406.4	519.2	517.5	1.76	295.090		
600.0	600.0	614.9	614.8	1.0	1.1	-51.54	324.1	-408.0	521.2	519.1	2.11	247.374		
700.0	700.0	713.0	713.0	1.2	1.3	-51.57	325.3	-410.0	523.5	521.1	2.45	213.309		
800.0	800.0	811.2	811.1	1.4	1.4	-51.60	326.7	-412.2	526.2	523.4	2.80	187.816		
900.0	900.0	922.6	922.4	1.5	1.6	-51.65	327.8	-414.3	528.4	525.2	3.17	166.670		
1,000.0	1,000.0	1,028.5	1,028.3	1.7	1.8	-51.65	327.6	-414.0	528.0	524.4	3.52	149.874		
1,100.0	1,100.0	1,133.6	1,133.5	1.9	2.0	-51.40	328.8	-411.9	527.1	523.2	3.87	136.236		
1,200.0	1,200.0	1,237.7	1,237.4	2.1	2.2	-50.94	330.9	-407.8	525.3	521.0	4.21	124.655		
1,300.0	1,300.0	1,339.3	1,338.8	2.2	2.3	-3.24	334.1	-402.3	520.4	515.9	4.56	114.055		
1,400.0	1,399.6	1,446.4	1,445.5	2.4	2.5	-2.40	338.0	-394.3	509.3	504.4	4.92	103.474		
1,500.0	1,498.8	1,546.6	1,545.4	2.6	2.7	-1.52	341.4	-385.9	492.4	487.2	5.28	93.313		
1,600.0	1,597.8	1,642.8	1,641.2	2.9	2.9	-0.60	344.7	-377.8	474.4	468.8	5.64	84.092		
1,700.0	1,696.8	1,740.7	1,738.7	3.1	3.1	0.33	347.9	-370.2	457.0	451.0	6.01	75.992		
1,800.0	1,795.8	1,833.7	1,831.3	3.4	3.3	1.44	352.0	-362.5	440.0	433.6	6.38	68.927		
1,900.0	1,894.8	1,931.1	1,928.2	3.6	3.5	2.71	357.2	-354.9	424.2	417.5	6.77	62.703		
2,000.0	1,993.9	2,032.5	2,029.2	3.9	3.7	4.12	362.1	-346.8	408.2	401.1	7.16	57.023		
2,100.0	2,092.9	2,131.8	2,128.1	4.2	3.9	5.55	366.2	-338.8	391.8	384.3	7.55	51.889		
2,200.0	2,191.9	2,229.0	2,224.9	4.4	4.2	7.16	370.6	-330.5	375.8	367.8	7.95	47.278		
2,300.0	2,290.9	2,327.6	2,322.9	4.7	4.4	8.97	375.3	-322.1	360.2	351.9	8.35	43.131		
2,400.0	2,389.9	2,421.4	2,416.4	5.0	4.6	10.71	379.7	-314.8	345.4	336.6	8.74	39.502		
2,500.0	2,488.9	2,520.0	2,514.7	5.3	4.8	12.53	384.3	-308.4	331.6	322.5	9.15	36.263		
2,600.0	2,587.9	2,618.3	2,612.6	5.6	5.0	14.47	388.7	-302.2	318.2	308.7	9.55	33.306		
2,700.0	2,686.9	2,717.4	2,711.4	5.8	5.2	16.74	393.6	-295.2	305.2	295.2	9.98	30.573		
2,800.0	2,785.9	2,814.0	2,807.7	6.1	5.5	19.15	398.3	-288.3	292.6	282.2	10.41	28.110		
2,900.0	2,884.9	2,911.5	2,904.8	6.4	5.7	21.71	403.6	-282.0	281.4	270.5	10.85	25.938		
3,000.0	2,983.9	3,012.8	3,005.8	6.7	5.9	24.60	408.9	-275.3	270.4	259.1	11.31	23.915		
3,100.0	3,083.0	3,113.1	3,105.7	7.0	6.1	27.66	412.9	-268.4	259.1	247.3	11.78	21.994		
3,200.0	3,182.0	3,212.2	3,204.5	7.3	6.3	30.97	416.6	-261.4	248.1	235.9	12.27	20.224		
3,300.0	3,281.0	3,309.6	3,301.6	7.6	6.5	34.47	420.1	-254.7	238.1	225.3	12.76	18.652		
3,400.0	3,380.0	3,407.6	3,399.3	7.9	6.8	38.17	423.9	-248.4	229.3	216.0	13.28	17.267		
3,500.0	3,479.0	3,504.1	3,495.5	8.2	7.0	42.25	428.2	-241.5	222.1	208.3	13.82	16.077		
3,600.0	3,578.0	3,599.3	3,590.3	8.5	7.2	46.59	433.5	-234.4	217.3	203.0	14.37	15.127		
3,700.0	3,677.0	3,699.2	3,689.7	8.8	7.4	51.29	439.5	-227.0	214.3	199.4	14.93	14.356		
3,800.0	3,776.0	3,797.2	3,787.3	9.1	7.7	56.06	445.3	-219.6	212.7	197.2	15.49	13.732		
3,900.0	3,875.0	3,897.0	3,886.7	9.3	7.9	60.91	450.7	-212.3	212.2	196.1	16.05	13.220		
3,905.3	3,880.3	3,902.3	3,891.9	9.4	7.9	61.17	450.9	-211.9	212.2	196.1	16.08	13.196 CC		
4,000.0	3,974.0	3,996.6	3,985.9	9.6	8.1	65.91	455.4	-204.5	212.7	196.1	16.59	12.815 ES		
4,100.0	4,073.0	4,095.5	4,084.4	9.9	8.3	70.76	459.4	-197.4	213.9	196.8	17.12	12.493		
4,200.0	4,172.1	4,191.6	4,180.1	10.2	8.6	75.53	463.8	-189.6	217.6	200.0	17.62	12.349		
4,300.0	4,271.1	4,292.0	4,280.0	10.5	8.8	80.02	469.1	-182.3	222.9	204.8	18.10	12.316		
4,400.0	4,370.1	4,391.2	4,378.9	10.8	9.0	84.11	473.7	-176.2	228.5	209.9	18.56	12.308 SF		
4,500.0	4,469.1	4,492.5	4,480.0	11.1	9.2	88.08	478.1	-170.3	234.7	215.6	19.01	12.343		
4,600.0	4,568.1	4,589.6	4,576.9	11.4	9.4	91.69	481.9	-164.8	241.4	222.0	19.44	12.417		
4,700.0	4,667.1	4,690.7	4,677.7	11.7	9.6	95.31	485.6	-159.0	249.0	229.2	19.87	12.537		
4,800.0	4,766.1	4,790.6	4,777.5	12.0	9.8	98.61	489.0	-154.0	256.8	236.5	20.28	12.664		
4,900.0	4,865.1	4,890.0	4,876.7	12.3	10.0	101.67	492.1	-149.5	264.9	244.2	20.68	12.809		
5,000.0	4,964.1	4,990.0	4,976.6	12.6	10.2	104.59	495.0	-145.2	273.4	252.3	21.07	12.972		

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 2-0-2 (Existing) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 844-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,063.1	5,090.7	5,077.2	12.9	10.4	107.38	497.5	-141.3	281.9	260.5	21.46	13.136		
5,200.0	5,162.2	5,188.8	5,175.1	13.2	10.6	109.92	499.9	-137.7	290.8	269.0	21.84	13.315		
5,300.0	5,261.2	5,285.7	5,272.0	13.5	10.8	112.23	502.6	-133.9	300.7	278.5	22.22	13.535		
5,400.0	5,360.2	5,387.7	5,373.8	13.8	11.0	114.46	505.7	-130.2	310.9	288.3	22.59	13.760		
5,500.0	5,459.2	5,485.0	5,471.1	14.1	11.2	116.52	508.1	-126.7	321.2	298.3	22.96	13.991		
5,600.0	5,558.2	5,587.8	5,573.8	14.4	11.4	118.63	510.2	-123.5	331.4	308.1	23.32	14.211		
5,700.0	5,657.2	5,684.0	5,669.9	14.7	11.5	120.49	512.0	-120.4	342.1	318.4	23.67	14.449		
5,800.0	5,756.2	5,788.0	5,773.9	15.0	11.7	122.41	513.8	-117.5	352.5	328.5	24.03	14.670		
5,900.0	5,855.2	5,890.6	5,876.4	15.3	11.9	124.19	515.2	-115.8	362.2	337.9	24.38	14.859		
6,000.0	5,954.2	5,995.0	5,980.9	15.6	12.0	126.04	515.5	-115.4	370.8	346.1	24.71	15.003		
6,100.0	6,053.2	6,095.8	6,081.6	15.9	12.2	127.80	515.2	-115.8	378.9	353.8	25.04	15.131		
6,200.0	6,152.2	6,196.2	6,182.0	16.2	12.3	129.50	514.8	-116.6	386.9	361.5	25.35	15.259		
6,300.0	6,251.3	6,294.3	6,280.1	16.5	12.5	131.09	514.4	-117.5	395.0	369.3	25.66	15.391		
6,400.0	6,350.3	6,392.6	6,378.4	16.8	12.6	132.64	513.9	-117.9	404.0	378.0	25.97	15.556		
6,500.0	6,449.3	6,493.5	6,479.3	17.1	12.8	134.15	513.4	-118.6	412.9	386.6	26.27	15.716		
6,600.0	6,548.3	6,593.1	6,578.9	17.4	12.9	135.59	512.8	-119.7	421.8	395.2	26.57	15.874		
6,700.0	6,647.6	6,694.1	6,679.8	17.6	13.1	-150.21	512.1	-120.9	430.9	404.2	26.76	16.105		
6,800.0	6,745.8	6,793.5	6,779.3	17.7	13.2	-115.82	511.0	-122.5	440.2	413.2	26.91	16.359		
6,900.0	6,840.0	6,888.5	6,874.2	17.6	13.3	-108.97	509.3	-124.0	451.0	424.1	26.96	16.732		
7,000.0	6,927.2	6,977.6	6,963.3	17.4	13.4	-108.51	507.5	-125.5	466.3	439.5	26.81	17.395		
7,100.0	7,004.9	7,042.0	7,027.7	17.2	13.5	-108.59	506.1	-126.7	489.3	463.0	26.38	18.552		
7,200.0	7,070.6	7,042.0	7,027.7	17.0	13.5	-103.02	506.1	-126.7	529.3	503.4	25.90	20.439		
7,300.0	7,122.4	7,042.0	7,027.7	16.9	13.5	-95.52	506.1	-126.7	585.2	559.5	25.70	22.772		
7,400.0	7,158.7	7,042.0	7,027.7	16.8	13.5	-86.27	506.1	-126.7	651.4	625.8	25.61	25.432		
7,500.0	7,178.4	7,042.0	7,027.7	16.9	13.5	-76.03	506.1	-126.7	723.5	698.2	25.26	28.636		
7,600.0	7,181.7	7,042.0	7,027.7	17.2	13.5	-68.95	506.1	-126.7	798.1	773.2	24.87	32.091		
7,700.0	7,180.8	7,042.0	7,027.7	17.7	13.5	-68.95	506.1	-126.7	876.8	851.4	25.41	34.505		
7,800.0	7,179.9	7,042.0	7,027.7	18.3	13.5	-68.95	506.1	-126.7	959.5	933.3	26.12	36.726		
7,900.0	7,179.1	7,042.0	7,027.7	19.0	13.5	-68.95	506.1	-126.7	1,045.2	1,018.2	26.99	38.728		
8,000.0	7,178.2	7,042.0	7,027.7	19.9	13.5	-68.95	506.1	-126.7	1,133.2	1,105.2	27.97	40.510		
8,100.0	7,177.3	7,042.0	7,027.7	20.8	13.5	-68.95	506.1	-126.7	1,223.1	1,194.0	29.06	42.085		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 21-2 (Existing) - Existing - Existing														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning		
0.0	0.0	0.0	0.0	0.0	0.0	124.71	-305.6	441.2	537.1						
100.0	100.0	80.0	80.0	0.2	0.1	124.71	-305.6	441.2	536.8	536.5	0.29	1,841.306			
200.0	200.0	180.0	180.0	0.3	0.3	124.71	-305.6	441.2	536.8	536.1	0.64	837.985			
300.0	300.0	280.0	280.0	0.5	0.5	124.71	-305.6	441.2	536.8	535.8	0.99	542.399			
400.0	400.0	380.0	380.0	0.7	0.7	124.71	-305.6	441.2	536.8	535.4	1.34	400.965			
500.0	500.0	480.0	480.0	0.8	0.8	124.71	-305.6	441.2	536.8	535.1	1.69	318.036			
600.0	600.0	580.0	580.0	1.0	1.0	124.71	-305.6	441.2	536.8	534.7	2.04	263.531			
700.0	700.0	680.0	680.0	1.2	1.2	124.71	-305.6	441.2	536.8	534.4	2.39	224.975			
800.0	800.0	780.0	780.0	1.4	1.4	124.71	-305.6	441.2	536.8	534.0	2.73	196.261			
900.0	900.0	880.0	880.0	1.5	1.5	124.71	-305.6	441.2	536.8	533.7	3.08	174.047			
1,000.0	1,000.0	980.0	980.0	1.7	1.7	124.71	-305.6	441.2	536.8	533.3	3.43	156.350			
1,100.0	1,100.0	1,080.0	1,080.0	1.9	1.9	124.71	-305.6	441.2	536.8	533.0	3.78	141.920			
1,200.0	1,200.0	1,180.0	1,180.0	2.1	2.1	124.71	-305.6	441.2	536.8	532.6	4.13	129.928 CC, ES			
1,300.0	1,300.0	1,280.0	1,280.0	2.2	2.2	171.81	-305.6	441.2	539.4	534.9	4.48	120.491			
1,400.0	1,399.6	1,379.6	1,379.6	2.4	2.4	171.89	-305.6	441.2	547.1	542.3	4.81	113.685			
1,500.0	1,498.8	1,478.8	1,478.8	2.6	2.6	172.04	-305.6	441.2	559.8	554.6	5.15	108.765			
1,600.0	1,597.8	1,577.8	1,577.8	2.9	2.8	172.24	-305.6	441.2	573.7	568.2	5.49	104.406			
1,700.0	1,696.8	1,676.8	1,676.8	3.1	2.9	172.42	-305.6	441.2	587.6	581.8	5.84	100.566			
1,800.0	1,795.8	1,775.8	1,775.8	3.4	3.1	172.60	-305.6	441.2	601.5	595.4	6.19	97.158			
1,900.0	1,894.8	1,874.8	1,874.8	3.6	3.3	172.77	-305.6	441.2	615.5	608.9	6.54	94.114			
2,000.0	1,993.9	1,973.9	1,973.9	3.9	3.4	172.93	-305.6	441.2	629.4	622.5	6.89	91.379			
2,100.0	2,092.9	2,072.9	2,072.9	4.2	3.6	173.08	-305.6	441.2	643.3	636.1	7.24	88.908			
2,200.0	2,191.9	2,171.9	2,171.9	4.4	3.8	173.23	-305.6	441.2	657.3	649.7	7.58	86.666			
2,300.0	2,290.9	2,270.9	2,270.9	4.7	4.0	173.37	-305.6	441.2	671.2	663.3	7.93	84.621			
2,400.0	2,389.9	2,369.9	2,369.9	5.0	4.1	173.51	-305.6	441.2	685.2	676.9	8.28	82.749			
2,500.0	2,488.9	2,468.9	2,468.9	5.3	4.3	173.64	-305.6	441.2	699.1	690.5	8.63	81.030			
2,600.0	2,587.9	2,567.9	2,567.9	5.6	4.5	173.76	-305.6	441.2	713.1	704.1	8.98	79.444			
2,700.0	2,686.9	2,666.9	2,666.9	5.8	4.7	173.88	-305.6	441.2	727.1	717.7	9.32	77.978			
2,800.0	2,785.9	2,765.9	2,765.9	6.1	4.8	174.00	-305.6	441.2	741.0	731.4	9.67	76.618			
2,900.0	2,884.9	2,864.9	2,864.9	6.4	5.0	174.11	-305.6	441.2	755.0	745.0	10.02	75.354			
3,000.0	2,983.9	2,963.9	2,963.9	6.7	5.2	174.22	-305.6	441.2	769.0	758.6	10.37	74.175			
3,100.0	3,083.0	3,063.0	3,063.0	7.0	5.3	174.32	-305.6	441.2	782.9	772.2	10.71	73.073			
3,200.0	3,182.0	3,162.0	3,162.0	7.3	5.5	174.42	-305.6	441.2	796.9	785.8	11.06	72.040			
3,300.0	3,281.0	3,261.0	3,261.0	7.6	5.7	174.52	-305.6	441.2	810.9	799.5	11.41	71.072			
3,400.0	3,380.0	3,360.0	3,360.0	7.9	5.9	174.61	-305.6	441.2	824.9	813.1	11.76	70.161			
3,500.0	3,479.0	3,459.0	3,459.0	8.2	6.0	174.70	-305.6	441.2	838.8	826.7	12.10	69.302			
3,600.0	3,578.0	3,558.0	3,558.0	8.5	6.2	174.79	-305.6	441.2	852.8	840.4	12.45	68.492			
3,700.0	3,677.0	3,657.0	3,657.0	8.8	6.4	174.87	-305.6	441.2	866.8	854.0	12.80	67.727			
3,800.0	3,776.0	3,756.0	3,756.0	9.1	6.6	174.95	-305.6	441.2	880.8	867.7	13.15	67.002			
3,900.0	3,875.0	3,855.0	3,855.0	9.3	6.7	175.03	-305.6	441.2	894.8	881.3	13.49	66.315			
4,000.0	3,974.0	3,954.0	3,954.0	9.6	6.9	175.11	-305.6	441.2	908.8	894.9	13.84	65.662			
4,100.0	4,073.0	4,053.0	4,053.0	9.9	7.1	175.18	-305.6	441.2	922.8	908.6	14.19	65.042			
4,200.0	4,172.1	4,152.1	4,152.1	10.2	7.2	175.25	-305.6	441.2	936.8	922.2	14.53	64.451			
4,300.0	4,271.1	4,251.1	4,251.1	10.5	7.4	175.32	-305.6	441.2	950.8	935.9	14.88	63.889			
4,400.0	4,370.1	4,350.1	4,350.1	10.8	7.6	175.39	-305.6	441.2	964.7	949.5	15.23	63.352			
4,500.0	4,469.1	4,449.1	4,449.1	11.1	7.8	175.46	-305.6	441.2	978.7	963.2	15.58	62.839			
4,600.0	4,568.1	4,548.1	4,548.1	11.4	7.9	175.52	-305.6	441.2	992.7	976.8	15.92	62.349			
4,700.0	4,667.1	4,647.1	4,647.1	11.7	8.1	175.58	-305.6	441.2	1,006.7	990.5	16.27	61.880			
4,800.0	4,766.1	4,746.1	4,746.1	12.0	8.3	175.65	-305.6	441.2	1,020.7	1,004.1	16.62	61.431			
4,900.0	4,865.1	4,845.1	4,845.1	12.3	8.5	175.70	-305.6	441.2	1,034.7	1,017.8	16.96	61.000			
5,000.0	4,964.1	4,944.1	4,944.1	12.6	8.6	175.76	-305.6	441.2	1,048.7	1,031.4	17.31	60.587			
5,100.0	5,063.1	5,043.1	5,043.1	12.9	8.8	175.82	-305.6	441.2	1,062.8	1,045.1	17.66	60.190			

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 21-2 (Existing) - Existing - Existing													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,200.0	5,162.2	5,142.2	5,142.2	13.2	9.0	175.87	-305.6	441.2	1,076.8	1,058.8	18.00	59.808		
5,300.0	5,261.2	5,241.2	5,241.2	13.5	9.1	175.93	-305.6	441.2	1,090.8	1,072.4	18.35	59.441		
5,400.0	5,360.2	5,340.2	5,340.2	13.8	9.3	175.98	-305.6	441.2	1,104.8	1,086.1	18.70	59.087		
5,500.0	5,459.2	5,439.2	5,439.2	14.1	9.5	176.03	-305.6	441.2	1,118.8	1,099.7	19.04	58.747		
5,600.0	5,558.2	5,538.2	5,538.2	14.4	9.7	176.08	-305.6	441.2	1,132.8	1,113.4	19.39	58.419		
5,700.0	5,657.2	5,637.2	5,637.2	14.7	9.8	176.12	-305.6	441.2	1,146.8	1,127.1	19.74	58.102		
5,800.0	5,756.2	5,736.2	5,736.2	15.0	10.0	176.17	-305.6	441.2	1,160.8	1,140.7	20.08	57.797		
5,900.0	5,855.2	5,835.2	5,835.2	15.3	10.2	176.22	-305.6	441.2	1,174.8	1,154.4	20.43	57.502		
6,000.0	5,954.2	5,934.2	5,934.2	15.6	10.4	176.26	-305.6	441.2	1,188.8	1,168.0	20.78	57.216		
6,100.0	6,053.2	6,033.2	6,033.2	15.9	10.5	176.31	-305.6	441.2	1,202.8	1,181.7	21.12	56.941		
6,200.0	6,152.2	6,132.2	6,132.2	16.2	10.7	176.35	-305.6	441.2	1,216.8	1,195.4	21.47	56.674		
6,300.0	6,251.3	6,231.3	6,231.3	16.5	10.9	176.39	-305.6	441.2	1,230.9	1,209.0	21.82	56.415		
6,400.0	6,350.3	6,330.3	6,330.3	16.8	11.0	176.43	-305.6	441.2	1,244.9	1,222.7	22.16	56.165		
6,500.0	6,449.3	6,429.3	6,429.3	17.1	11.2	176.47	-305.6	441.2	1,258.9	1,236.4	22.51	55.923		
6,600.0	6,548.3	6,528.3	6,528.3	17.4	11.4	176.51	-305.6	441.2	1,272.9	1,250.0	22.86	55.688		
6,900.0	6,840.0	6,820.0	6,820.0	17.6	11.9	-68.68	-305.6	441.2	1,269.9	1,246.2	23.63	53.735		
7,000.0	6,927.2	6,907.2	6,907.2	17.4	12.1	-68.28	-305.6	441.2	1,249.5	1,225.7	23.79	52.524		
7,100.0	7,004.9	6,984.9	6,984.9	17.2	12.2	-70.86	-305.6	441.2	1,222.1	1,198.1	24.06	50.794		
7,200.0	7,070.6	7,050.6	7,050.6	17.0	12.3	-75.05	-305.6	441.2	1,190.2	1,165.8	24.45	48.681		
7,300.0	7,122.4	7,102.4	7,102.4	16.9	12.4	-79.89	-305.6	441.2	1,156.6	1,131.8	24.86	46.519		
7,400.0	7,158.7	7,138.7	7,138.7	16.8	12.5	-84.54	-305.6	441.2	1,124.2	1,099.0	25.22	44.581		
7,500.0	7,178.4	7,158.4	7,158.4	16.9	12.5	-88.29	-305.6	441.2	1,095.8	1,070.2	25.53	42.914		
7,600.0	7,181.7	7,161.7	7,161.7	17.2	12.5	-90.09	-305.6	441.2	1,073.5	1,047.5	25.91	41.424		
7,700.0	7,180.8	7,160.8	7,160.8	17.7	12.5	-90.05	-305.6	441.2	1,059.7	1,033.2	26.48	40.023		
7,797.0	7,180.0	7,160.0	7,160.0	18.2	12.5	-90.00	-305.6	441.2	1,055.2	1,028.0	27.21	38.787		
7,800.0	7,179.9	7,159.9	7,159.9	18.3	12.5	-90.00	-305.6	441.2	1,055.2	1,028.0	27.23	38.755		
7,900.0	7,179.1	7,159.1	7,159.1	19.0	12.5	-89.95	-305.6	441.2	1,060.2	1,032.1	28.14	37.677		
8,000.0	7,178.2	7,158.2	7,158.2	19.9	12.5	-89.90	-305.6	441.2	1,074.6	1,045.4	29.19	36.816		
8,100.0	7,177.3	7,157.3	7,157.3	20.8	12.5	-89.86	-305.6	441.2	1,097.8	1,067.5	30.35	36.178		
8,200.0	7,176.5	7,156.5	7,156.5	21.9	12.5	-89.81	-305.6	441.2	1,129.5	1,097.9	31.59	35.751		
8,300.0	7,175.6	7,155.6	7,155.6	23.1	12.5	-89.76	-305.6	441.2	1,168.9	1,136.0	32.92	35.511		
8,400.0	7,174.7	7,154.7	7,154.7	24.3	12.5	-89.71	-305.6	441.2	1,215.3	1,181.0	34.30	35.431 SF		
8,500.0	7,173.8	7,153.8	7,153.8	25.6	12.5	-89.67	-305.6	441.2	1,267.9	1,232.2	35.73	35.481		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 2-8-2 (Existing) - DD - DD													Offset Site Error:	0.0 ft
Survey Program: 869-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		
11,100.0	7,151.1	7,263.3	7,157.2	67.1	21.2	-90.34	-4,736.8	-156.9	1,233.6	1,152.5	81.08	15.214		
11,200.0	7,150.3	7,263.1	7,156.9	68.8	21.2	-90.31	-4,736.8	-156.9	1,142.5	1,059.7	82.80	13.797		
11,300.0	7,149.4	7,262.8	7,156.7	70.5	21.2	-90.29	-4,736.8	-156.9	1,053.0	968.4	84.52	12.457		
11,400.0	7,148.5	7,262.6	7,156.5	72.2	21.2	-90.26	-4,736.8	-156.9	965.5	879.3	86.25	11.195		
11,500.0	7,147.7	7,262.4	7,156.2	73.9	21.2	-90.23	-4,736.8	-156.9	880.7	792.8	87.97	10.011		
11,600.0	7,146.8	7,262.1	7,156.0	75.6	21.2	-90.20	-4,736.8	-156.9	799.5	709.8	89.70	8.913		
11,700.0	7,145.9	7,261.9	7,155.8	77.3	21.2	-90.18	-4,736.8	-156.9	723.0	631.5	91.43	7.908		
11,800.0	7,145.0	7,261.7	7,155.5	79.0	21.2	-90.15	-4,736.8	-156.9	652.8	559.7	93.15	7.008		
11,812.3	7,144.9	7,261.7	7,155.5	79.2	21.2	-90.15	-4,736.8	-156.9	644.7	551.3	93.37	6.905 CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 2B-2H - 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	90.02	0.0	27.9	28.0					
100.0	100.0	99.0	99.0	0.2	0.2	90.02	0.0	27.9	27.9	27.6	0.30	92.479		
200.0	200.0	199.0	199.0	0.3	0.3	90.02	0.0	27.9	27.9	27.3	0.65	42.925		
300.0	300.0	299.0	299.0	0.5	0.5	90.02	0.0	27.9	27.9	26.9	1.00	27.942		
400.0	400.0	399.0	399.0	0.7	0.7	90.02	0.0	27.9	27.9	26.6	1.35	20.713		
500.0	500.0	499.0	499.0	0.8	0.8	90.02	0.0	27.9	27.9	26.2	1.70	16.455		
600.0	600.0	599.0	599.0	1.0	1.0	90.02	0.0	27.9	27.9	25.9	2.05	13.650		
700.0	700.0	699.0	699.0	1.2	1.2	90.02	0.0	27.9	27.9	25.5	2.40	11.661		
800.0	800.0	799.0	799.0	1.4	1.4	90.02	0.0	27.9	27.9	25.2	2.75	10.179		
900.0	900.0	899.0	899.0	1.5	1.5	90.02	0.0	27.9	27.9	24.8	3.09	9.030		
1,000.0	1,000.0	999.0	999.0	1.7	1.7	90.02	0.0	27.9	27.9	24.5	3.44	8.115		
1,100.0	1,100.0	1,099.0	1,099.0	1.9	1.9	90.02	0.0	27.9	27.9	24.2	3.79	7.368		
1,200.0	1,200.0	1,199.0	1,199.0	2.1	2.1	90.02	0.0	27.9	27.9	23.8	4.14	6.747 CC, ES		
1,300.0	1,300.0	1,298.4	1,298.3	2.2	2.2	135.96	2.3	28.9	30.8	26.3	4.49	6.868		
1,400.0	1,399.6	1,397.3	1,396.9	2.4	2.4	133.45	9.4	31.8	39.6	34.7	4.85	8.162		
1,500.0	1,498.8	1,496.4	1,495.6	2.6	2.6	133.75	18.4	35.5	52.7	47.4	5.22	10.080		
1,600.0	1,597.8	1,595.4	1,594.1	2.9	2.8	134.82	27.4	39.2	66.6	61.0	5.62	11.854		
1,700.0	1,696.8	1,694.5	1,692.7	3.1	3.0	135.52	36.4	42.9	80.6	74.6	6.03	13.371		
1,800.0	1,795.8	1,793.5	1,791.2	3.4	3.2	136.02	45.4	46.6	94.6	88.1	6.44	14.677		
1,900.0	1,894.8	1,892.5	1,889.7	3.6	3.5	136.38	54.5	50.3	108.6	101.7	6.87	15.809		
2,000.0	1,993.9	1,991.5	1,988.3	3.9	3.7	136.67	63.5	54.0	122.6	115.3	7.30	16.796		
2,100.0	2,092.9	2,090.5	2,086.8	4.2	3.9	136.89	72.5	57.8	136.6	128.8	7.73	17.662		
2,200.0	2,191.9	2,189.5	2,185.3	4.4	4.1	137.08	81.5	61.5	150.6	142.4	8.17	18.426		
2,300.0	2,290.9	2,288.5	2,283.9	4.7	4.4	137.23	90.5	65.2	164.6	156.0	8.61	19.106		
2,400.0	2,389.9	2,387.6	2,382.4	5.0	4.6	137.36	99.5	68.9	178.6	169.5	9.06	19.712		
2,500.0	2,488.9	2,486.6	2,480.9	5.3	4.8	137.47	108.5	72.6	192.6	183.1	9.51	20.256		
2,600.0	2,587.9	2,585.6	2,579.5	5.6	5.0	137.56	117.5	76.3	206.6	196.6	9.96	20.747		
2,700.0	2,686.9	2,684.6	2,678.0	5.8	5.3	137.64	126.6	80.0	220.6	210.2	10.41	21.191		
2,800.0	2,785.9	2,783.6	2,776.5	6.1	5.5	137.72	135.6	83.7	234.6	223.7	10.86	21.595		
2,900.0	2,884.9	2,882.6	2,875.1	6.4	5.7	137.78	144.6	87.4	248.6	237.3	11.32	21.964		
3,000.0	2,983.9	2,981.6	2,973.6	6.7	6.0	137.84	153.6	91.1	262.6	250.8	11.77	22.302		
3,100.0	3,083.0	3,080.7	3,072.1	7.0	6.2	137.89	162.6	94.8	276.6	264.4	12.23	22.613		
3,200.0	3,182.0	3,179.7	3,170.7	7.3	6.4	137.94	171.6	98.5	290.6	277.9	12.69	22.899		
3,300.0	3,281.0	3,278.7	3,269.2	7.6	6.7	137.98	180.6	102.2	304.6	291.4	13.15	23.163		
3,400.0	3,380.0	3,377.7	3,367.7	7.9	6.9	138.02	189.6	105.9	318.6	305.0	13.61	23.409		
3,500.0	3,479.0	3,476.7	3,466.3	8.2	7.2	138.05	198.7	109.6	332.6	318.5	14.07	23.637		
3,600.0	3,578.0	3,575.7	3,564.8	8.5	7.4	138.09	207.7	113.3	346.6	332.1	14.53	23.849		
3,700.0	3,677.0	3,674.7	3,663.3	8.8	7.6	138.12	216.7	117.0	360.6	345.6	15.00	24.048		
3,800.0	3,776.0	3,773.8	3,761.9	9.1	7.9	138.15	225.7	120.8	374.6	359.2	15.46	24.233		
3,900.0	3,875.0	3,872.8	3,860.4	9.3	8.1	138.17	234.7	124.5	388.6	372.7	15.92	24.407		
4,000.0	3,974.0	3,971.8	3,958.9	9.6	8.3	138.20	243.7	128.2	402.6	386.2	16.39	24.571		
4,100.0	4,073.0	4,070.8	4,057.5	9.9	8.6	138.22	252.7	131.9	416.6	399.8	16.85	24.725		
4,200.0	4,172.1	4,169.8	4,156.0	10.2	8.8	138.24	261.7	135.6	430.6	413.3	17.32	24.870		
4,300.0	4,271.1	4,268.8	4,254.5	10.5	9.1	138.26	270.7	139.3	444.6	426.9	17.78	25.006		
4,400.0	4,370.1	4,367.8	4,353.1	10.8	9.3	138.28	279.8	143.0	458.6	440.4	18.25	25.136		
4,500.0	4,469.1	4,466.9	4,451.6	11.1	9.5	138.29	288.8	146.7	472.6	453.9	18.71	25.259		
4,600.0	4,568.1	4,565.9	4,550.1	11.4	9.8	138.31	297.8	150.4	486.6	467.5	19.18	25.375		
4,700.0	4,667.1	4,664.9	4,648.7	11.7	10.0	138.33	306.8	154.1	500.7	481.0	19.64	25.485		
4,800.0	4,766.1	4,763.9	4,747.2	12.0	10.3	138.34	315.8	157.8	514.7	494.5	20.11	25.590		
4,900.0	4,865.1	4,862.9	4,845.7	12.3	10.5	138.36	324.8	161.5	528.7	508.1	20.58	25.690		
5,000.0	4,964.1	4,961.9	4,944.3	12.6	10.7	138.37	333.8	165.2	542.7	521.6	21.05	25.785		
5,100.0	5,063.1	5,060.9	5,042.8	12.9	11.0	138.38	342.8	168.9	556.7	535.2	21.51	25.876		

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 2B-2H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,162.2	5,160.0	5,141.3	13.2	11.2	138.39	351.9	172.6	570.7	548.7	21.98		25.963	
5,300.0	5,261.2	5,259.0	5,239.9	13.5	11.5	138.40	360.9	176.3	584.7	562.2	22.45		26.046	
5,400.0	5,360.2	5,358.0	5,338.4	13.8	11.7	138.41	369.9	180.0	598.7	575.8	22.92		26.125	
5,500.0	5,459.2	5,457.0	5,436.9	14.1	11.9	138.42	378.9	183.8	612.7	589.3	23.38		26.201	
5,600.0	5,558.2	5,556.0	5,535.5	14.4	12.2	138.43	387.9	187.5	626.7	602.8	23.85		26.274	
5,700.0	5,657.2	5,655.0	5,634.0	14.7	12.4	138.44	396.9	191.2	640.7	616.4	24.32		26.344	
5,800.0	5,756.2	5,754.0	5,732.5	15.0	12.7	138.45	405.9	194.9	654.7	629.9	24.79		26.411	
5,900.0	5,855.2	5,853.1	5,831.1	15.3	12.9	138.46	414.9	198.6	668.7	643.5	25.26		26.476	
6,000.0	5,954.2	5,952.1	5,929.6	15.6	13.1	138.47	424.0	202.3	682.7	657.0	25.73		26.538	
6,100.0	6,053.2	6,051.1	6,028.1	15.9	13.4	138.48	433.0	206.0	696.7	670.5	26.19		26.598	
6,200.0	6,152.2	6,150.1	6,126.7	16.2	13.6	138.49	442.0	209.7	710.7	684.1	26.66		26.655	
6,300.0	6,251.3	6,249.1	6,225.2	16.5	13.9	138.49	451.0	213.4	724.7	697.6	27.13		26.711	
6,400.0	6,350.3	6,348.1	6,323.7	16.8	14.1	138.50	460.0	217.1	738.7	711.1	27.60		26.764	
6,500.0	6,449.3	6,447.1	6,422.3	17.1	14.4	138.51	469.0	220.8	752.7	724.7	28.07		26.816	
6,600.0	6,548.3	6,546.2	6,520.8	17.4	14.6	138.51	478.0	224.5	766.7	738.2	28.54		26.865	
6,700.0	6,647.6	6,644.8	6,619.0	17.6	14.8	-147.81	487.0	228.2	780.6	751.8	28.85		27.056	
6,800.0	6,745.8	6,740.8	6,714.5	17.7	15.1	-112.88	495.7	231.8	794.5	765.5	29.05		27.348	
6,900.0	6,840.0	6,834.7	6,808.0	17.6	15.3	-104.63	502.5	235.3	809.3	780.2	29.09		27.824	
7,000.0	6,927.2	6,936.2	6,909.1	17.4	15.3	-101.99	494.9	239.1	825.2	796.4	28.82		28.636	
7,100.0	7,004.9	7,047.3	7,016.2	17.2	15.2	-101.26	466.2	243.1	841.7	813.4	28.27		29.779	
7,200.0	7,070.6	7,170.3	7,125.8	17.0	14.8	-101.42	411.1	247.3	857.9	830.4	27.49		31.203	
7,300.0	7,122.4	7,307.3	7,230.9	16.9	14.4	-102.02	323.9	251.2	872.5	845.9	26.66		32.731	
7,400.0	7,158.7	7,459.0	7,319.5	16.8	14.0	-102.74	201.3	254.6	884.3	858.3	26.04		33.965	
7,500.0	7,178.4	7,623.5	7,375.8	16.9	13.9	-103.27	47.3	256.7	891.7	865.7	26.02		34.272	
7,600.0	7,181.7	7,772.7	7,388.0	17.2	14.3	-103.40	-101.0	257.1	894.0	867.2	26.78		33.387	
7,700.0	7,180.8	7,872.7	7,388.0	17.7	14.8	-103.45	-201.0	257.1	894.9	867.1	27.87		32.112	
7,800.0	7,179.9	7,972.7	7,388.0	18.3	15.5	-103.49	-301.0	257.1	895.8	866.5	29.31		30.568	
7,900.0	7,179.1	8,072.7	7,388.0	19.0	16.4	-103.54	-401.0	257.1	896.7	865.7	31.05		28.877	
8,000.0	7,178.2	8,172.7	7,388.0	19.9	17.4	-103.58	-501.0	257.1	897.6	864.6	33.06		27.152	
8,100.0	7,177.3	8,272.7	7,388.0	20.8	18.5	-103.62	-601.0	257.1	898.5	863.3	35.28		25.468	
8,200.0	7,176.5	8,372.7	7,388.0	21.9	19.7	-103.67	-701.0	257.1	899.4	861.8	37.68		23.870	
8,300.0	7,175.6	8,472.7	7,388.0	23.1	21.0	-103.71	-801.0	257.1	900.3	860.1	40.22		22.383	
8,400.0	7,174.7	8,572.7	7,388.0	24.3	22.3	-103.75	-901.0	257.1	901.3	858.4	42.89		21.015	
8,500.0	7,173.8	8,672.7	7,388.0	25.6	23.7	-103.79	-1,000.9	257.1	902.2	856.5	45.65		19.764	
8,600.0	7,173.0	8,772.6	7,388.0	27.0	25.2	-103.84	-1,100.9	257.1	903.1	854.6	48.49		18.625	
8,700.0	7,172.1	8,872.6	7,388.0	28.4	26.7	-103.88	-1,200.9	257.1	904.0	852.6	51.39		17.589	
8,800.0	7,171.2	8,972.6	7,388.0	29.8	28.2	-103.92	-1,300.9	257.1	904.9	850.5	54.36		16.646	
8,900.0	7,170.3	9,072.6	7,388.0	31.3	29.7	-103.97	-1,400.9	257.1	905.8	848.4	57.37		15.788	
9,000.0	7,169.5	9,172.6	7,388.0	32.7	31.3	-104.01	-1,500.9	257.1	906.7	846.3	60.42		15.006	
9,100.0	7,168.6	9,272.6	7,388.0	34.3	32.9	-104.05	-1,600.9	257.1	907.6	844.1	63.51		14.292	
9,200.0	7,167.7	9,372.6	7,388.0	35.8	34.5	-104.09	-1,700.9	257.1	908.5	841.9	66.62		13.637	
9,300.0	7,166.9	9,472.6	7,388.0	37.4	36.1	-104.14	-1,800.9	257.1	909.4	839.7	69.76		13.037	
9,400.0	7,166.0	9,572.6	7,388.0	38.9	37.7	-104.18	-1,900.9	257.1	910.3	837.4	72.92		12.484	
9,500.0	7,165.1	9,672.6	7,388.0	40.5	39.3	-104.22	-2,000.9	257.1	911.3	835.2	76.10		11.974	
9,600.0	7,164.2	9,772.6	7,388.0	42.1	41.0	-104.26	-2,100.9	257.1	912.2	832.9	79.30		11.503	
9,700.0	7,163.4	9,872.6	7,388.0	43.7	42.6	-104.30	-2,200.9	257.1	913.1	830.6	82.51		11.067	
9,800.0	7,162.5	9,972.6	7,388.0	45.4	44.3	-104.35	-2,300.9	257.1	914.0	828.3	85.73		10.662	
9,900.0	7,161.6	10,072.6	7,388.0	47.0	46.0	-104.39	-2,400.9	257.1	914.9	825.9	88.96		10.284	
10,000.0	7,160.7	10,172.6	7,388.0	48.6	47.6	-104.43	-2,500.8	257.1	915.8	823.6	92.20		9.932	
10,100.0	7,159.9	10,272.5	7,388.0	50.3	49.3	-104.47	-2,600.8	257.1	916.7	821.3	95.46		9.604	
10,200.0	7,159.0	10,372.5	7,388.0	51.9	51.0	-104.51	-2,700.8	257.1	917.6	818.9	98.72		9.296	
10,300.0	7,158.1	10,472.5	7,388.0	53.6	52.7	-104.55	-2,800.8	257.1	918.6	816.6	101.98		9.007	

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 Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 2B-2H - Hz - Plan #1												Offset Site Error: 0.0 ft	
Survey Program: 0-MWD												Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis		Separation Factor
10,400.0	7,157.3	10,572.5	7,388.0	55.3	54.4	-104.59	-2,900.8	257.1	919.5	814.2	105.25	8.736	
10,500.0	7,156.4	10,672.5	7,388.0	56.9	56.1	-104.64	-3,000.8	257.1	920.4	811.9	108.53	8.481	
10,600.0	7,155.5	10,772.5	7,388.0	58.6	57.8	-104.68	-3,100.8	257.1	921.3	809.5	111.81	8.240	
10,700.0	7,154.6	10,872.5	7,388.0	60.3	59.5	-104.72	-3,200.8	257.1	922.2	807.1	115.10	8.013	
10,800.0	7,153.8	10,972.5	7,388.0	62.0	61.2	-104.76	-3,300.8	257.1	923.1	804.8	118.39	7.798	
10,900.0	7,152.9	11,072.5	7,388.0	63.7	62.9	-104.80	-3,400.8	257.1	924.1	802.4	121.68	7.594	
11,000.0	7,152.0	11,172.5	7,388.0	65.4	64.6	-104.84	-3,500.8	257.1	925.0	800.0	124.98	7.401	
11,100.0	7,151.1	11,272.5	7,388.0	67.1	66.3	-104.88	-3,600.8	257.1	925.9	797.6	128.28	7.218	
11,200.0	7,150.3	11,372.5	7,388.0	68.8	68.1	-104.92	-3,700.8	257.1	926.8	795.2	131.58	7.044	
11,300.0	7,149.4	11,472.5	7,388.0	70.5	69.8	-104.96	-3,800.8	257.1	927.7	792.9	134.88	6.878	
11,400.0	7,148.5	11,572.5	7,388.0	72.2	71.5	-105.00	-3,900.8	257.1	928.7	790.5	138.19	6.720	
11,500.0	7,147.7	11,672.5	7,388.0	73.9	73.2	-105.04	-4,000.8	257.1	929.6	788.1	141.49	6.570	
11,600.0	7,146.8	11,772.5	7,388.0	75.6	74.9	-105.08	-4,100.7	257.1	930.5	785.7	144.80	6.426	
11,700.0	7,145.9	11,872.4	7,388.0	77.3	76.7	-105.12	-4,200.7	257.1	931.4	783.3	148.11	6.289	
11,800.0	7,145.0	11,972.4	7,388.0	79.0	78.4	-105.17	-4,300.7	257.1	932.4	780.9	151.42	6.157	
11,812.3	7,144.9	11,984.8	7,388.0	79.2	78.6	-105.17	-4,313.1	257.1	932.5	780.6	151.83	6.141 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria 4-2-2 (Existing) - 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				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	126.27	-342.4	466.7	579.1					
100.0	100.0	82.0	82.0	0.2	0.1	126.27	-342.4	466.7	578.8	578.5	0.29	1,962.153		
200.0	200.0	182.0	182.0	0.3	0.3	126.27	-342.4	466.7	578.8	578.2	0.64	898.765 CC, ES		
300.0	300.0	268.2	268.2	0.5	0.5	126.27	-342.9	467.3	579.8	578.8	0.97	597.511		
400.0	400.0	351.3	351.2	0.7	0.6	126.27	-344.8	469.9	583.6	582.3	1.30	450.303		
500.0	500.0	434.1	433.8	0.8	0.8	126.28	-348.2	474.3	590.4	588.7	1.63	362.237		
600.0	600.0	516.5	515.9	1.0	1.0	126.29	-352.9	480.6	600.0	598.0	1.97	303.858		
700.0	700.0	600.0	598.7	1.2	1.2	126.30	-359.2	489.0	612.4	610.1	2.34	262.047		
800.0	800.0	679.6	677.4	1.4	1.5	126.31	-366.5	498.7	627.7	624.9	2.71	231.226		
900.0	900.0	769.6	765.9	1.5	1.8	126.32	-376.0	511.4	645.3	642.2	3.13	206.352		
1,000.0	1,000.0	868.0	862.7	1.7	2.1	126.34	-386.7	525.6	663.3	659.8	3.57	185.784		
1,100.0	1,100.0	966.3	959.5	1.9	2.4	126.35	-397.3	539.8	681.3	677.3	4.02	169.575		
1,200.0	1,200.0	1,064.7	1,056.2	2.1	2.8	126.37	-407.9	553.9	699.3	694.8	4.47	156.510		
1,300.0	1,300.0	1,162.5	1,152.5	2.2	3.1	173.41	-418.5	568.0	719.8	715.6	4.26	168.971		
1,400.0	1,399.6	1,259.2	1,247.6	2.4	3.5	173.40	-428.9	581.9	745.4	740.8	4.58	162.720		
1,500.0	1,498.8	1,354.5	1,341.3	2.6	3.8	173.44	-439.2	595.6	775.8	770.9	4.90	158.344		
1,600.0	1,597.8	1,449.3	1,434.6	2.9	4.2	173.57	-449.4	609.2	807.3	802.1	5.24	154.179		
1,700.0	1,696.8	1,544.2	1,527.9	3.1	4.5	173.68	-459.7	622.9	838.9	833.3	5.57	150.517		
1,800.0	1,795.8	1,639.1	1,621.3	3.4	4.8	173.78	-469.9	636.5	870.4	864.5	5.91	147.272		
1,900.0	1,894.8	1,734.0	1,714.6	3.6	5.2	173.88	-480.2	650.2	902.0	895.7	6.25	144.377		
2,000.0	1,993.9	1,828.9	1,807.9	3.9	5.5	173.97	-490.4	663.8	933.5	926.9	6.58	141.778		
2,100.0	2,092.9	1,923.8	1,901.3	4.2	5.9	174.06	-500.7	677.5	965.1	958.1	6.92	139.433		
2,200.0	2,191.9	2,018.6	1,994.6	4.4	6.2	174.14	-510.9	691.1	996.6	989.3	7.26	137.306		
2,300.0	2,290.9	2,113.5	2,087.9	4.7	6.5	174.21	-521.2	704.8	1,028.2	1,020.6	7.60	135.367		
2,400.0	2,389.9	2,208.4	2,181.3	5.0	6.9	174.28	-531.4	718.4	1,059.7	1,051.8	7.93	133.594		
2,500.0	2,488.9	2,303.3	2,274.6	5.3	7.2	174.35	-541.7	732.1	1,091.3	1,083.0	8.27	131.966		
2,600.0	2,587.9	2,398.2	2,367.9	5.6	7.6	174.41	-551.9	745.7	1,122.8	1,114.2	8.61	130.465		
2,700.0	2,686.9	2,493.1	2,461.3	5.8	7.9	174.47	-562.1	759.4	1,154.4	1,145.4	8.94	129.078		
2,800.0	2,785.9	2,587.9	2,554.6	6.1	8.3	174.52	-572.4	773.0	1,186.0	1,176.7	9.28	127.792		
2,900.0	2,884.9	2,682.8	2,648.0	6.4	8.6	174.58	-582.6	786.7	1,217.5	1,207.9	9.62	126.596		
3,000.0	2,983.9	2,777.7	2,741.3	6.7	8.9	174.63	-592.9	800.3	1,249.1	1,239.1	9.95	125.481		
3,100.0	3,083.0	2,872.6	2,834.6	7.0	9.3	174.68	-603.1	814.0	1,280.6	1,270.3	10.29	124.439 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Echeverria 2A-2H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4872.0ft (Original Well Elev)
Reference Site:	S2-T2N-R67W (Echevarria)	MD Reference:	WELL @ 4872.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 S2-T2N-R67W (Echevarria) - Echeverria C-2-320-W (Existing) - Existing - Existing													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		
8,700.0	7,172.1	7,472.2	7,387.0	28.4	21.8	-111.76	-2,210.0	-9.7	1,203.2	1,164.8	38.49	31.264		
8,800.0	7,171.2	7,463.4	7,378.6	29.8	21.7	-111.01	-2,210.6	-7.5	1,121.3	1,081.2	40.02	28.014		
8,900.0	7,170.3	7,454.7	7,370.1	31.3	21.7	-110.26	-2,211.3	-5.4	1,042.3	1,000.7	41.60	25.058		
9,000.0	7,169.5	7,445.9	7,361.7	32.7	21.7	-109.52	-2,212.0	-3.2	967.3	924.1	43.20	22.391		
9,100.0	7,168.6	7,437.2	7,353.2	34.3	21.6	-108.77	-2,212.7	-1.1	897.0	852.2	44.83	20.010		
9,200.0	7,167.7	7,428.5	7,344.8	35.8	21.6	-108.02	-2,213.4	1.1	832.7	786.2	46.48	17.916		
9,300.0	7,166.9	7,419.8	7,336.4	37.4	21.5	-107.27	-2,214.1	3.2	776.0	727.8	48.15	16.116		
9,400.0	7,166.0	7,411.1	7,328.0	38.9	21.5	-106.52	-2,214.7	5.3	728.5	678.6	49.84	14.616		
9,500.0	7,165.1	7,402.5	7,319.7	40.5	21.5	-105.77	-2,215.4	7.4	692.1	640.6	51.54	13.428		
9,600.0	7,164.2	7,393.9	7,311.3	42.1	21.4	-105.03	-2,216.1	9.6	668.8	615.5	53.26	12.557		
9,700.0	7,163.4	7,385.2	7,303.0	43.7	21.4	-104.28	-2,216.7	11.7	659.8	604.9	54.99	11.999		
9,709.9	7,163.3	7,384.4	7,302.2	43.9	21.4	-104.21	-2,216.8	11.9	659.8	604.6	55.16	11.961 CC, ES		
9,800.0	7,162.5	7,376.6	7,294.7	45.4	21.3	-103.54	-2,217.4	13.8	665.9	609.1	56.73	11.737 SF		
9,900.0	7,161.6	7,368.1	7,286.4	47.0	21.3	-102.79	-2,218.1	15.8	686.4	627.9	58.48	11.738		
10,000.0	7,160.7	7,359.5	7,278.1	48.6	21.2	-102.05	-2,218.7	17.9	720.3	660.1	60.23	11.959		
10,100.0	7,159.9	7,351.0	7,269.9	50.3	21.2	-101.32	-2,219.4	20.0	765.7	703.8	61.99	12.353		
10,200.0	7,159.0	7,342.4	7,261.6	51.9	21.2	-100.58	-2,220.0	22.1	820.8	757.1	63.75	12.875		
10,300.0	7,158.1	7,333.9	7,253.4	53.6	21.1	-99.85	-2,220.7	24.1	883.7	818.2	65.52	13.488		
10,400.0	7,157.3	7,325.4	7,245.2	55.3	21.1	-99.12	-2,221.4	26.2	952.9	885.7	67.29	14.162		
10,500.0	7,156.4	7,316.9	7,237.0	56.9	21.0	-98.39	-2,222.0	28.3	1,027.2	958.1	69.05	14.875		
10,600.0	7,155.5	7,308.5	7,228.8	58.6	21.0	-97.67	-2,222.7	30.3	1,105.4	1,034.6	70.82	15.608		
10,700.0	7,154.6	7,300.0	7,220.6	60.3	21.0	-96.94	-2,223.3	32.3	1,186.8	1,114.2	72.59	16.350		
10,800.0	7,153.8	7,291.6	7,212.5	62.0	20.9	-96.23	-2,223.9	34.4	1,270.9	1,196.5	74.35	17.093		

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Site Error:	0.0ft	North Reference:	True
Reference Well:	Echeverria 2A-2H	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 @ 4872.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Echeverria 2A-2H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.41°

