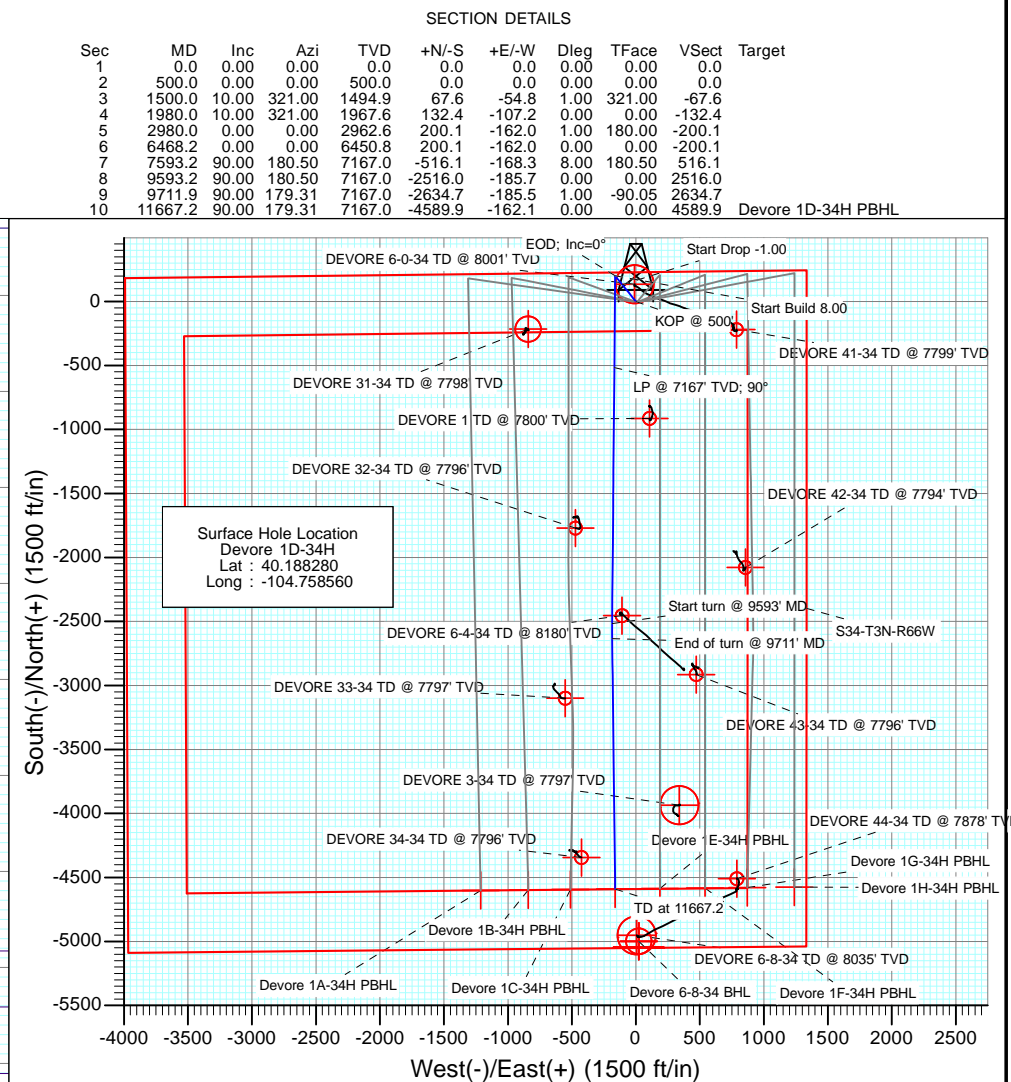
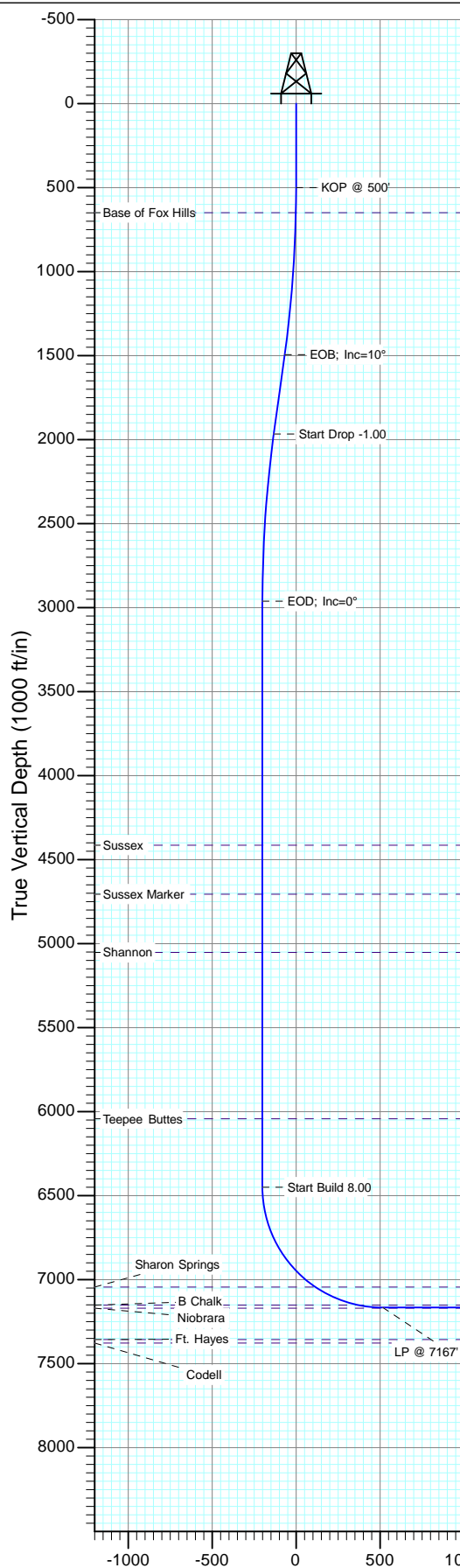




Project: DJ Wattenberg
Site: S34-T3N-R66W (Devore)
Well: Devore 1D-34H
Wellbore: Hz
Design: Plan #1

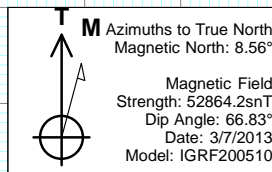


DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Devore 1D-34H PBHL	-4589.9	-162.1	1307710.53	3207023.92	40.175680	-104.759140

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
649.0	649.0	Base of Fox Hills
4414.0	4431.4	Sussex
4706.0	4723.4	Sussex Marker
5053.0	5070.4	Shannon
6043.0	6060.4	Teepee Buttes
7044.0	7167.3	Sharon Springs
7152.0	7446.5	B Chalk



Plan #1
Devore 1D-34H
13xxxL; LR
WELL @ 4974.0ft (Original Well Elev)
Ground Elevation @ 4961.0
North American Datum 1983
Well Devore 1D-34H, True North

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1D-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site:	S34-T3N-R66W (Devore)	North Reference:	True
Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

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

Site		S34-T3N-R66W (Devore)			
Site Position:		Northing:	1,307,711.17 ft	Latitude:	40.175660
From:	Lat/Long	Easting:	3,207,971.22 ft	Longitude:	-104.755750
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	0.48 °

Well	Devore 1D-34H					
Well Position	+N/-S	0.0 ft	Northing:	1,312,301.65 ft	Latitude:	40.188280
	+E/-W	0.0 ft	Easting:	3,207,147.61 ft	Longitude:	-104.758560
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,961.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/7/2013	8.56	66.83	52,864

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	10.00	321.00	1,494.9	67.6	-54.8	1.00	1.00	0.00	321.00	
1,980.0	10.00	321.00	1,967.6	132.4	-107.2	0.00	0.00	0.00	0.00	
2,980.0	0.00	0.00	2,962.6	200.1	-162.0	1.00	-1.00	0.00	180.00	
6,468.2	0.00	0.00	6,450.8	200.1	-162.0	0.00	0.00	0.00	0.00	
7,593.2	90.00	180.50	7,167.0	-516.1	-168.3	8.00	8.00	0.00	180.50	
9,593.2	90.00	180.50	7,167.0	-2,516.0	-185.7	0.00	0.00	0.00	0.00	
9,711.9	90.00	179.31	7,167.0	-2,634.7	-185.5	1.00	0.00	-1.00	-90.05	
11,667.2	90.00	179.31	7,167.0	-4,589.9	-162.1	0.00	0.00	0.00	0.00	Devore 1D-34H PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1D-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site:	S34-T3N-R66W (Devore)	North Reference:	True
Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
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	KOP @ 500'
600.0	1.00	321.00	600.0	0.7	-0.5	-0.7	1.00	1.00	
649.0	1.49	321.00	649.0	1.5	-1.2	-1.5	1.00	1.00	Base of Fox Hills
700.0	2.00	321.00	700.0	2.7	-2.2	-2.7	1.00	1.00	
800.0	3.00	321.00	799.9	6.1	-4.9	-6.1	1.00	1.00	
900.0	4.00	321.00	899.7	10.8	-8.8	-10.8	1.00	1.00	
1,000.0	5.00	321.00	999.4	16.9	-13.7	-16.9	1.00	1.00	
1,100.0	6.00	321.00	1,098.9	24.4	-19.8	-24.4	1.00	1.00	
1,200.0	7.00	321.00	1,198.3	33.2	-26.9	-33.2	1.00	1.00	
1,300.0	8.00	321.00	1,297.4	43.3	-35.1	-43.3	1.00	1.00	
1,400.0	9.00	321.00	1,396.3	54.8	-44.4	-54.8	1.00	1.00	
1,500.0	10.00	321.00	1,494.9	67.6	-54.8	-67.6	1.00	1.00	EOB; Inc=10°
1,600.0	10.00	321.00	1,593.4	81.1	-65.7	-81.1	0.00	0.00	
1,700.0	10.00	321.00	1,691.9	94.6	-76.6	-94.6	0.00	0.00	
1,800.0	10.00	321.00	1,790.4	108.1	-87.6	-108.1	0.00	0.00	
1,900.0	10.00	321.00	1,888.9	121.6	-98.5	-121.6	0.00	0.00	
1,980.0	10.00	321.00	1,967.6	132.4	-107.2	-132.4	0.00	0.00	Start Drop -1.00
2,000.0	9.80	321.00	1,987.3	135.1	-109.4	-135.1	1.00	-1.00	
2,100.0	8.80	321.00	2,086.0	147.7	-119.6	-147.7	1.00	-1.00	
2,200.0	7.80	321.00	2,185.0	158.9	-128.7	-158.9	1.00	-1.00	
2,300.0	6.80	321.00	2,284.2	168.7	-136.6	-168.7	1.00	-1.00	
2,400.0	5.80	321.00	2,383.6	177.3	-143.6	-177.3	1.00	-1.00	
2,500.0	4.80	321.00	2,483.1	184.5	-149.4	-184.5	1.00	-1.00	
2,600.0	3.80	321.00	2,582.8	190.3	-154.1	-190.3	1.00	-1.00	
2,700.0	2.80	321.00	2,682.7	194.8	-157.7	-194.8	1.00	-1.00	
2,800.0	1.80	321.00	2,782.6	197.9	-160.2	-197.9	1.00	-1.00	
2,900.0	0.80	321.00	2,882.6	199.6	-161.7	-199.6	1.00	-1.00	
2,980.0	0.00	0.00	2,962.6	200.1	-162.0	-200.1	1.00	-1.00	EOD; Inc=0°
3,000.0	0.00	0.00	2,982.6	200.1	-162.0	-200.1	0.00	0.00	
3,100.0	0.00	0.00	3,082.6	200.1	-162.0	-200.1	0.00	0.00	
3,200.0	0.00	0.00	3,182.6	200.1	-162.0	-200.1	0.00	0.00	
3,300.0	0.00	0.00	3,282.6	200.1	-162.0	-200.1	0.00	0.00	
3,400.0	0.00	0.00	3,382.6	200.1	-162.0	-200.1	0.00	0.00	
3,500.0	0.00	0.00	3,482.6	200.1	-162.0	-200.1	0.00	0.00	
3,600.0	0.00	0.00	3,582.6	200.1	-162.0	-200.1	0.00	0.00	
3,700.0	0.00	0.00	3,682.6	200.1	-162.0	-200.1	0.00	0.00	
3,800.0	0.00	0.00	3,782.6	200.1	-162.0	-200.1	0.00	0.00	
3,900.0	0.00	0.00	3,882.6	200.1	-162.0	-200.1	0.00	0.00	
4,000.0	0.00	0.00	3,982.6	200.1	-162.0	-200.1	0.00	0.00	
4,100.0	0.00	0.00	4,082.6	200.1	-162.0	-200.1	0.00	0.00	
4,200.0	0.00	0.00	4,182.6	200.1	-162.0	-200.1	0.00	0.00	
4,300.0	0.00	0.00	4,282.6	200.1	-162.0	-200.1	0.00	0.00	
4,400.0	0.00	0.00	4,382.6	200.1	-162.0	-200.1	0.00	0.00	
4,431.4	0.00	0.00	4,414.0	200.1	-162.0	-200.1	0.00	0.00	Sussex
4,500.0	0.00	0.00	4,482.6	200.1	-162.0	-200.1	0.00	0.00	
4,600.0	0.00	0.00	4,582.6	200.1	-162.0	-200.1	0.00	0.00	
4,700.0	0.00	0.00	4,682.6	200.1	-162.0	-200.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1D-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site:	S34-T3N-R66W (Devore)	North Reference:	True
Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
4,723.4	0.00	0.00	4,706.0	200.1	-162.0	-200.1	0.00	0.00	Sussex Marker
4,800.0	0.00	0.00	4,782.6	200.1	-162.0	-200.1	0.00	0.00	
4,900.0	0.00	0.00	4,882.6	200.1	-162.0	-200.1	0.00	0.00	
5,000.0	0.00	0.00	4,982.6	200.1	-162.0	-200.1	0.00	0.00	Shannon
5,070.4	0.00	0.00	5,053.0	200.1	-162.0	-200.1	0.00	0.00	
5,100.0	0.00	0.00	5,082.6	200.1	-162.0	-200.1	0.00	0.00	
5,200.0	0.00	0.00	5,182.6	200.1	-162.0	-200.1	0.00	0.00	
5,300.0	0.00	0.00	5,282.6	200.1	-162.0	-200.1	0.00	0.00	
5,400.0	0.00	0.00	5,382.6	200.1	-162.0	-200.1	0.00	0.00	
5,500.0	0.00	0.00	5,482.6	200.1	-162.0	-200.1	0.00	0.00	
5,600.0	0.00	0.00	5,582.6	200.1	-162.0	-200.1	0.00	0.00	Teepee Buttes
5,700.0	0.00	0.00	5,682.6	200.1	-162.0	-200.1	0.00	0.00	
5,800.0	0.00	0.00	5,782.6	200.1	-162.0	-200.1	0.00	0.00	
5,900.0	0.00	0.00	5,882.6	200.1	-162.0	-200.1	0.00	0.00	
6,000.0	0.00	0.00	5,982.6	200.1	-162.0	-200.1	0.00	0.00	
6,060.4	0.00	0.00	6,043.0	200.1	-162.0	-200.1	0.00	0.00	
6,100.0	0.00	0.00	6,082.6	200.1	-162.0	-200.1	0.00	0.00	
6,200.0	0.00	0.00	6,182.6	200.1	-162.0	-200.1	0.00	0.00	Start Build 8.00
6,300.0	0.00	0.00	6,282.6	200.1	-162.0	-200.1	0.00	0.00	
6,400.0	0.00	0.00	6,382.6	200.1	-162.0	-200.1	0.00	0.00	
6,468.2	0.00	0.00	6,450.8	200.1	-162.0	-200.1	0.00	0.00	
6,500.0	2.54	180.50	6,482.6	199.4	-162.0	-199.4	8.00	8.00	
6,600.0	10.54	180.50	6,581.8	188.0	-162.1	-188.0	8.00	8.00	
6,700.0	18.54	180.50	6,678.5	162.9	-162.3	-162.9	8.00	8.00	
6,800.0	26.54	180.50	6,770.8	124.6	-162.7	-124.6	8.00	8.00	Sharon Springs
6,900.0	34.54	180.50	6,856.9	73.8	-163.1	-73.8	8.00	8.00	
7,000.0	42.54	180.50	6,935.0	11.5	-163.7	-11.5	8.00	8.00	
7,100.0	50.54	180.50	7,003.8	-61.0	-164.3	61.0	8.00	8.00	
7,167.3	55.93	180.50	7,044.0	-114.8	-164.8	114.8	8.00	8.00	
7,200.0	58.54	180.50	7,061.7	-142.4	-165.0	142.4	8.00	8.00	
7,300.0	66.54	180.50	7,107.8	-231.0	-165.8	231.0	8.00	8.00	
7,400.0	74.54	180.50	7,141.1	-325.2	-166.6	325.2	8.00	8.00	B Chalk
7,446.5	78.27	180.50	7,152.0	-370.5	-167.0	370.5	8.00	8.00	
7,500.0	82.54	180.50	7,160.9	-423.2	-167.5	423.2	8.00	8.00	
7,593.2	90.00	180.50	7,167.0	-516.1	-168.3	516.1	8.00	8.00	
7,600.0	90.00	180.50	7,167.0	-522.9	-168.3	522.9	0.00	0.00	
7,700.0	90.00	180.50	7,167.0	-622.9	-169.2	622.9	0.00	0.00	
7,800.0	90.00	180.50	7,167.0	-722.9	-170.1	722.9	0.00	0.00	
7,900.0	90.00	180.50	7,167.0	-822.9	-170.9	822.9	0.00	0.00	LP @ 7167' TVD; 90°
8,000.0	90.00	180.50	7,167.0	-922.9	-171.8	922.9	0.00	0.00	
8,100.0	90.00	180.50	7,167.0	-1,022.9	-172.7	1,022.9	0.00	0.00	
8,200.0	90.00	180.50	7,167.0	-1,122.9	-173.6	1,122.9	0.00	0.00	
8,300.0	90.00	180.50	7,167.0	-1,222.9	-174.4	1,222.9	0.00	0.00	
8,400.0	90.00	180.50	7,167.0	-1,322.9	-175.3	1,322.9	0.00	0.00	
8,500.0	90.00	180.50	7,167.0	-1,422.9	-176.2	1,422.9	0.00	0.00	
8,600.0	90.00	180.50	7,167.0	-1,522.9	-177.0	1,522.9	0.00	0.00	
8,700.0	90.00	180.50	7,167.0	-1,622.9	-177.9	1,622.9	0.00	0.00	
8,800.0	90.00	180.50	7,167.0	-1,722.9	-178.8	1,722.9	0.00	0.00	
8,900.0	90.00	180.50	7,167.0	-1,822.9	-179.7	1,822.9	0.00	0.00	
9,000.0	90.00	180.50	7,167.0	-1,922.8	-180.5	1,922.8	0.00	0.00	
9,100.0	90.00	180.50	7,167.0	-2,022.8	-181.4	2,022.8	0.00	0.00	
9,200.0	90.00	180.50	7,167.0	-2,122.8	-182.3	2,122.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1D-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site:	S34-T3N-R66W (Devore)	North Reference:	True
Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Comments / Formations
9,300.0	90.00	180.50	7,167.0	-2,222.8	-183.2	2,222.8	0.00	0.00	
9,400.0	90.00	180.50	7,167.0	-2,322.8	-184.0	2,322.8	0.00	0.00	
9,500.0	90.00	180.50	7,167.0	-2,422.8	-184.9	2,422.8	0.00	0.00	
9,593.2	90.00	180.50	7,167.0	-2,516.0	-185.7	2,516.0	0.00	0.00	Start turn @ 9593' MD
9,600.0	90.00	180.43	7,167.0	-2,522.8	-185.8	2,522.8	1.00	0.00	
9,700.0	90.00	179.43	7,167.0	-2,622.8	-185.7	2,622.8	1.00	0.00	
9,711.9	90.00	179.31	7,167.0	-2,634.7	-185.5	2,634.7	1.00	0.00	End of turn @ 9711' MD
9,800.0	90.00	179.31	7,167.0	-2,722.8	-184.5	2,722.8	0.00	0.00	
9,900.0	90.00	179.31	7,167.0	-2,822.8	-183.3	2,822.8	0.00	0.00	
10,000.0	90.00	179.31	7,167.0	-2,922.8	-182.1	2,922.8	0.00	0.00	
10,100.0	90.00	179.31	7,167.0	-3,022.8	-180.9	3,022.8	0.00	0.00	
10,200.0	90.00	179.31	7,167.0	-3,122.8	-179.7	3,122.8	0.00	0.00	
10,300.0	90.00	179.31	7,167.0	-3,222.8	-178.5	3,222.8	0.00	0.00	
10,400.0	90.00	179.31	7,167.0	-3,322.8	-177.3	3,322.8	0.00	0.00	
10,500.0	90.00	179.31	7,167.0	-3,422.8	-176.1	3,422.8	0.00	0.00	
10,600.0	90.00	179.31	7,167.0	-3,522.8	-174.9	3,522.8	0.00	0.00	
10,700.0	90.00	179.31	7,167.0	-3,622.8	-173.7	3,622.8	0.00	0.00	
10,800.0	90.00	179.31	7,167.0	-3,722.7	-172.5	3,722.7	0.00	0.00	
10,900.0	90.00	179.31	7,167.0	-3,822.7	-171.3	3,822.7	0.00	0.00	
11,000.0	90.00	179.31	7,167.0	-3,922.7	-170.1	3,922.7	0.00	0.00	
11,100.0	90.00	179.31	7,167.0	-4,022.7	-168.9	4,022.7	0.00	0.00	
11,200.0	90.00	179.31	7,167.0	-4,122.7	-167.7	4,122.7	0.00	0.00	
11,300.0	90.00	179.31	7,167.0	-4,222.7	-166.5	4,222.7	0.00	0.00	
11,400.0	90.00	179.31	7,167.0	-4,322.7	-165.3	4,322.7	0.00	0.00	
11,500.0	90.00	179.31	7,167.0	-4,422.7	-164.1	4,422.7	0.00	0.00	
11,600.0	90.00	179.31	7,167.0	-4,522.7	-162.9	4,522.7	0.00	0.00	
11,667.2	90.00	179.31	7,167.0	-4,589.9	-162.1	4,589.9	0.00	0.00	TD at 11667.2

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Devore 1D-34H PBHL - plan hits target center - Point	0.00	0.00	7,167.0	-4,589.9	-162.1	1,307,710.53	3,207,023.92	40.175680	-104.759140

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
649.0	649.0	Base of Fox Hills			
4,431.4	4,414.0	Sussex			
4,723.4	4,706.0	Sussex Marker			
5,070.4	5,053.0	Shannon			
6,060.4	6,043.0	Teepee Buttes			
7,167.3	7,044.0	Sharon Springs			
7,446.5	7,152.0	B Chalk			

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1D-34H
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Project:	DJ Wattenberg	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site:	S34-T3N-R66W (Devore)	North Reference:	True
Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
500.0	500.0	0.0	0.0	KOP @ 500'
1,500.0	1,494.9	67.6	-54.8	EOB; Inc=10°
1,980.0	1,967.6	132.4	-107.2	Start Drop -1.00
2,980.0	2,962.6	200.1	-162.0	EOD; Inc=0°
6,468.2	6,450.8	200.1	-162.0	Start Build 8.00
7,593.2	7,167.0	-516.1	-168.3	LP @ 7167' TVD; 90°
9,593.2	7,167.0	-2,516.0	-185.7	Start turn @ 9593' MD
9,711.9	7,167.0	-2,634.7	-185.5	End of turn @ 9711' MD
11,667.2	7,167.0	-4,589.9	-162.1	TD at 11667.2

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T3N-R66W (Devore)

Devore 1D-34H

Hz

Plan #1

Anticollision Report

14 March, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.0ft	Error Model:	Systematic Ellipse
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 1,268.1ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	3/14/2013		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	11,667.2	Plan #1 (Hz)	MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
S34-T3N-R66W (Devore)						
DEVORE 1 (EXISTING) - EXISTING - GYRO	7,995.6	7,167.6	280.5	252.6	10.058	CC
DEVORE 1 (EXISTING) - EXISTING - GYRO	8,000.0	7,167.6	280.5	252.6	10.036	ES, SF
Devore 1A-34H - Hz - Plan #1	200.0	200.0	27.9	27.3	42.800	CC, ES
Devore 1A-34H - Hz - Plan #1	11,667.2	12,016.3	1,073.7	911.0	6.599	SF
Devore 1B-34H - Hz - Plan #1	300.0	300.0	19.6	18.6	19.521	CC, ES
Devore 1B-34H - Hz - Plan #1	11,667.2	11,748.6	679.1	513.0	4.089	SF
Devore 1C-34H - Hz - Plan #1	400.0	400.0	8.4	7.0	6.204	CC, ES
Devore 1C-34H - Hz - Plan #1	11,667.2	11,904.2	413.2	271.7	2.921	SF
Devore 1E-34H - Hz - Plan #1	500.0	500.0	11.2	9.5	6.574	CC, ES
Devore 1E-34H - Hz - Plan #1	11,667.2	11,892.2	413.3	271.6	2.916	SF
Devore 1F-34H - Hz - Plan #1	400.0	400.0	22.4	21.0	16.545	CC, ES
Devore 1F-34H - Hz - Plan #1	11,667.2	11,701.9	701.4	535.4	4.224	SF
Devore 1G-34H - Hz - Plan #1	300.0	300.0	30.7	29.7	30.676	CC, ES
Devore 1G-34H - Hz - Plan #1	11,667.2	11,973.1	1,057.8	895.6	6.522	SF
Devore 1H-34H - Hz - Plan #1	200.0	200.0	41.9	41.3	64.201	CC, ES
Devore 1H-34H - Hz - Plan #1	700.0	695.0	65.4	63.0	27.316	SF
DEVORE 31-34 (EXISTING) - EXISTING - GYRO	7,315.1	7,128.6	694.9	675.0	35.063	CC, ES
DEVORE 31-34 (EXISTING) - EXISTING - GYRO	7,600.0	7,173.3	750.0	727.4	33.189	SF
DEVORE 32-34 (EXISTING) - EXISTING - GYRO	8,854.8	7,172.0	268.1	226.7	6.482	CC, ES
DEVORE 32-34 (EXISTING) - EXISTING - GYRO	8,900.0	7,172.0	271.8	229.7	6.457	SF
DEVORE 33-34 (EXISTING) - EXISTING - GYRO	10,173.4	7,207.0	389.4	325.9	6.132	CC, ES
DEVORE 33-34 (EXISTING) - EXISTING - GYRO	10,200.0	7,207.1	390.4	326.4	6.102	SF
DEVORE 3-34 (EXISTING) - EXISTING - GYRO	11,015.8	7,202.3	510.0	432.0	6.533	CC, ES
DEVORE 3-34 (EXISTING) - EXISTING - GYRO	11,100.0	7,202.4	516.9	437.4	6.500	SF
DEVORE 34-34 (EXISTING) - EXISTING - GYRO	11,416.6	7,196.5	263.2	178.2	3.097	CC, ES, SF
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	0.0	0.0	789.4			
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	515.7	502.4	789.8	788.5	599.936	ES
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	8,100.0	7,135.9	1,243.9	1,214.6	42.407	SF
DEVORE 42-34 (EXISTING) - EXISTING - GYRO	9,162.8	7,147.1	1,032.8	986.3	22.209	CC, ES
DEVORE 42-34 (EXISTING) - EXISTING - GYRO	9,500.0	7,133.4	1,086.3	1,034.2	20.837	SF
DEVORE 43-34 (EXISTING) - EXISTING - GYRO	9,998.3	7,193.5	656.9	596.4	10.853	CC
DEVORE 43-34 (EXISTING) - EXISTING - GYRO	10,000.0	7,193.5	656.9	596.4	10.848	ES
DEVORE 43-34 (EXISTING) - EXISTING - GYRO	10,100.0	7,194.3	664.8	602.5	10.676	SF
DEVORE 44-34 (EXISTING) - EXISTING - GYRO	11,597.4	7,230.5	954.0	865.8	10.823	CC
DEVORE 44-34 (EXISTING) - EXISTING - GYRO	11,600.0	7,230.5	954.0	865.8	10.818	ES
DEVORE 44-34 (EXISTING) - EXISTING - GYRO	11,667.2	7,230.6	956.5	867.2	10.705	SF
DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS	6,816.8	6,856.1	160.6	135.4	6.380	CC, ES
DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS	6,900.0	6,926.8	166.6	140.2	6.307	SF
DEVORE 6-4-34 (EXISTING) - EXISTING - SURVEYS	9,526.1	7,252.7	65.4	4.6	1.076	Level 2, CC, ES, SF
DEVORE 6-8-34 (EXISTING) - EXISTING - SURVEYS	11,667.2	7,299.8	410.9	313.6	4.222	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 1 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	172.41	-824.3	109.8	831.6					
100.0	100.0	103.6	103.6	0.2	0.1	172.44	-823.9	109.4	831.2	830.9	0.24	3,423.066		
200.0	200.0	202.6	202.6	0.3	0.2	172.48	-823.1	108.7	830.3	829.8	0.50	1,647.147		
300.0	300.0	300.0	300.0	0.5	0.3	172.51	-822.6	108.2	829.7	828.9	0.76	1,086.346		
400.0	400.0	399.9	399.9	0.7	0.4	172.53	-822.1	107.8	829.2	828.2	1.03	808.619		
500.0	500.0	497.8	497.8	0.8	0.4	172.53	-821.8	107.7	828.9	827.6	1.29	644.883		
515.7	515.7	513.6	513.6	0.9	0.4	-148.47	-821.8	107.7	828.8	827.5	1.33	625.098		
600.0	600.0	599.3	599.3	1.0	0.5	-148.48	-821.5	107.4	829.3	827.7	1.55	535.750		
700.0	700.0	697.1	697.1	1.2	0.6	-148.54	-821.3	107.1	831.3	829.4	1.81	459.645		
800.0	799.9	799.4	799.4	1.4	0.7	-148.67	-821.1	106.9	834.7	832.6	2.07	402.383		
900.0	899.7	900.9	900.9	1.6	0.8	-148.84	-820.6	106.4	839.4	837.1	2.34	358.415		
1,000.0	999.4	1,000.0	1,000.0	1.8	0.9	-149.07	-820.0	106.2	845.5	842.9	2.61	323.902		
1,100.0	1,098.9	1,099.1	1,099.1	2.0	1.0	-149.35	-819.6	105.9	853.3	850.4	2.88	295.962		
1,200.0	1,198.3	1,199.2	1,199.2	2.2	1.0	-149.69	-819.0	105.8	862.5	859.4	3.16	272.877		
1,300.0	1,297.4	1,299.1	1,299.1	2.5	1.1	-150.06	-818.5	105.6	873.2	869.8	3.44	253.577		
1,400.0	1,396.3	1,391.7	1,391.7	2.8	1.2	-150.41	-818.3	105.1	885.8	882.1	3.73	237.758		
1,500.0	1,494.9	1,496.3	1,496.2	3.1	1.3	-150.86	-818.1	104.7	900.0	896.0	4.02	223.705		
1,600.0	1,593.4	1,591.0	1,591.0	3.4	1.4	-151.33	-817.9	104.0	914.9	910.6	4.32	212.021		
1,700.0	1,691.9	1,691.2	1,691.2	3.7	1.5	-151.79	-817.8	103.1	930.0	925.4	4.61	201.651		
1,800.0	1,790.4	1,785.9	1,785.8	4.1	1.6	-152.23	-817.8	102.4	945.2	940.3	4.90	192.753		
1,900.0	1,888.9	1,885.7	1,885.7	4.4	1.6	-152.70	-817.9	102.1	960.7	955.5	5.20	184.797		
2,000.0	1,987.3	1,991.6	1,991.6	4.7	1.7	-153.23	-817.3	102.3	975.7	970.2	5.50	177.523		
2,100.0	2,086.0	2,089.3	2,089.2	5.0	1.8	-153.74	-816.5	102.6	989.4	983.6	5.78	171.163		
2,200.0	2,185.0	2,187.8	2,187.8	5.3	1.9	-154.22	-815.5	103.6	1,001.7	995.6	6.06	165.350		
2,300.0	2,284.2	2,274.1	2,274.0	5.6	2.0	-154.66	-814.9	105.6	1,013.1	1,006.8	6.32	160.313		
2,400.0	2,383.6	2,359.9	2,359.7	5.8	2.1	-155.06	-815.5	108.0	1,024.3	1,017.7	6.57	155.799		
2,500.0	2,483.1	2,445.4	2,445.2	6.1	2.1	-155.43	-817.0	110.9	1,035.3	1,028.4	6.82	151.702		
2,600.0	2,582.8	2,530.3	2,530.0	6.3	2.2	-155.76	-819.6	114.3	1,046.1	1,039.0	7.07	147.983		
2,700.0	2,682.7	2,616.1	2,615.6	6.5	2.3	-156.06	-823.4	118.0	1,056.7	1,049.4	7.31	144.546		
2,800.0	2,782.6	2,707.5	2,706.8	6.6	2.4	-156.28	-828.5	121.3	1,066.7	1,059.2	7.55	141.227		
2,900.0	2,882.6	2,810.0	2,809.1	6.8	2.5	-156.39	-834.9	123.6	1,075.4	1,067.6	7.80	137.806		
3,000.0	2,982.6	2,916.0	2,914.9	6.9	2.6	164.60	-841.4	124.8	1,082.1	1,074.1	8.05	134.501		
3,100.0	3,082.6	3,027.1	3,025.9	7.0	2.7	164.65	-847.3	125.5	1,087.4	1,079.1	8.31	130.869		
3,200.0	3,182.6	3,130.3	3,128.9	7.2	2.7	164.66	-852.0	126.5	1,092.1	1,083.5	8.57	127.495		
3,300.0	3,282.6	3,233.2	3,231.7	7.3	2.8	164.65	-856.4	127.9	1,096.5	1,087.7	8.82	124.293		
3,400.0	3,382.6	3,339.2	3,337.7	7.4	2.9	164.63	-860.4	129.5	1,100.5	1,091.5	9.08	121.190		
3,500.0	3,482.6	3,441.9	3,440.3	7.6	3.0	164.63	-863.8	130.5	1,104.0	1,094.7	9.34	118.222		
3,600.0	3,582.6	3,542.0	3,540.4	7.7	3.1	164.60	-867.1	132.0	1,107.6	1,098.0	9.59	115.456		
3,700.0	3,682.6	3,642.4	3,640.7	7.9	3.2	164.60	-870.3	132.8	1,110.8	1,101.0	9.85	112.786		
3,800.0	3,782.6	3,739.5	3,737.7	8.0	3.3	164.65	-874.0	132.8	1,114.5	1,104.4	10.10	110.317		
3,900.0	3,882.6	3,843.2	3,841.3	8.1	3.4	164.74	-877.9	132.0	1,117.9	1,107.6	10.36	107.872		
4,000.0	3,982.6	3,949.5	3,947.5	8.3	3.5	164.87	-881.8	130.6	1,121.2	1,110.5	10.63	105.497		
4,100.0	4,082.6	4,050.3	4,048.3	8.4	3.6	164.99	-884.8	128.8	1,123.6	1,112.7	10.89	103.208		
4,200.0	4,182.6	4,145.6	4,143.5	8.6	3.7	165.08	-888.1	127.9	1,126.7	1,115.5	11.14	101.128		
4,300.0	4,282.6	4,246.3	4,244.2	8.7	3.8	165.14	-891.4	127.5	1,129.7	1,118.3	11.40	99.099		
4,400.0	4,382.6	4,345.7	4,343.5	8.9	3.8	165.21	-894.7	127.1	1,132.8	1,121.1	11.66	97.172		
4,500.0	4,482.6	4,446.7	4,444.5	9.0	3.9	165.27	-898.0	126.7	1,135.9	1,123.9	11.92	95.315		
4,600.0	4,582.6	4,550.2	4,547.9	9.2	4.0	165.34	-901.2	126.1	1,138.7	1,126.6	12.18	93.503		
4,700.0	4,682.6	4,655.2	4,652.9	9.3	4.1	165.42	-904.1	125.2	1,141.2	1,128.8	12.44	91.721		
4,800.0	4,782.6	4,761.9	4,759.6	9.5	4.2	165.52	-906.6	123.9	1,143.2	1,130.5	12.71	89.963		
4,900.0	4,882.6	4,859.8	4,857.3	9.7	4.3	165.61	-908.6	122.4	1,144.8	1,131.8	12.97	88.297		
5,000.0	4,982.6	4,957.2	4,954.8	9.8	4.4	165.70	-911.0	121.2	1,146.9	1,133.6	13.22	86.734		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 1 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,082.6	5,061.0	5,058.5	10.0	4.5	165.80	-913.5	119.7	1,148.8	1,135.3	13.49	85.185		
5,200.0	5,182.6	5,162.8	5,160.3	10.1	4.6	165.89	-915.5	118.3	1,150.4	1,136.7	13.75	83.683		
5,300.0	5,282.6	5,262.9	5,260.4	10.3	4.7	165.93	-917.2	118.0	1,152.0	1,138.0	14.01	82.249		
5,400.0	5,382.6	5,365.0	5,362.4	10.4	4.8	165.95	-918.9	118.0	1,153.5	1,139.3	14.27	80.852		
5,500.0	5,482.6	5,462.5	5,460.0	10.6	4.8	166.00	-920.4	117.4	1,155.0	1,140.4	14.52	79.518		
5,600.0	5,582.6	5,569.2	5,566.6	10.7	4.9	166.04	-922.2	117.1	1,156.5	1,141.7	14.79	78.196		
5,700.0	5,682.6	5,665.6	5,663.0	10.9	5.0	166.06	-923.2	116.8	1,157.5	1,142.4	15.05	76.930		
5,800.0	5,782.6	5,773.3	5,770.7	11.1	5.1	166.10	-924.8	116.3	1,158.8	1,143.5	15.31	75.677		
5,900.0	5,882.6	5,877.4	5,874.8	11.2	5.2	166.15	-925.4	115.4	1,159.1	1,143.5	15.58	74.420		
6,000.0	5,982.6	5,973.8	5,971.2	11.4	5.3	166.21	-926.1	114.4	1,159.6	1,143.7	15.83	73.241		
6,100.0	6,082.6	6,076.6	6,074.0	11.5	5.4	166.27	-926.9	113.3	1,160.2	1,144.1	16.09	72.083		
6,200.0	6,182.6	6,177.7	6,175.1	11.7	5.5	166.33	-927.5	112.3	1,160.5	1,144.1	16.36	70.951		
6,300.0	6,282.6	6,275.0	6,272.4	11.9	5.6	166.38	-928.1	111.3	1,160.9	1,144.3	16.61	69.873		
6,400.0	6,382.6	6,376.1	6,373.4	12.0	5.6	166.43	-928.9	110.6	1,161.4	1,144.5	16.87	68.825		
6,500.0	6,482.6	6,481.8	6,479.2	12.2	5.7	-14.07	-929.2	110.1	1,160.9	1,143.8	17.13	67.782		
6,600.0	6,581.8	6,591.7	6,589.0	12.3	5.8	-14.43	-928.8	109.5	1,149.4	1,132.2	17.27	66.551		
6,700.0	6,678.5	6,698.7	6,696.0	12.3	5.9	-15.34	-927.3	109.3	1,123.7	1,106.4	17.31	64.901		
6,800.0	6,770.8	6,790.8	6,788.1	12.3	6.0	-16.85	-925.5	109.2	1,084.9	1,067.6	17.26	62.841		
6,900.0	6,856.9	6,874.6	6,871.9	12.4	6.1	-19.13	-923.9	108.8	1,034.3	1,017.1	17.16	60.279		
7,000.0	6,935.0	6,945.5	6,942.8	12.5	6.1	-22.46	-922.8	108.7	973.3	956.2	17.05	57.085		
7,100.0	7,003.8	7,007.1	7,004.4	12.8	6.2	-27.39	-922.1	109.0	903.5	886.5	17.05	52.999		
7,200.0	7,061.7	7,067.5	7,064.8	13.2	6.2	-35.13	-921.7	109.2	826.1	808.8	17.37	47.566		
7,300.0	7,107.8	7,113.7	7,111.0	13.8	6.3	-46.43	-921.2	109.0	742.9	724.7	18.25	40.712		
7,400.0	7,141.1	7,144.9	7,142.2	14.6	6.3	-61.38	-921.0	108.9	656.4	636.7	19.73	33.277		
7,500.0	7,160.9	7,163.6	7,160.9	15.5	6.3	-77.87	-920.9	108.7	569.3	547.9	21.35	26.664		
7,600.0	7,167.0	7,169.1	7,166.4	16.6	6.3	-90.70	-920.9	108.7	484.9	462.3	22.65	21.407		
7,700.0	7,167.0	7,168.8	7,166.0	17.8	6.3	-90.63	-920.9	108.7	407.5	383.6	23.87	17.074		
7,800.0	7,167.0	7,168.4	7,165.7	19.1	6.3	-90.55	-920.9	108.7	342.0	316.8	25.16	13.589		
7,900.0	7,167.0	7,168.0	7,165.3	20.4	6.3	-90.47	-920.9	108.7	296.3	269.8	26.53	11.170		
7,995.6	7,167.0	7,167.6	7,164.9	21.8	6.3	-90.39	-920.9	108.7	280.5	252.6	27.89	10.058 CC		
8,000.0	7,167.0	7,167.6	7,164.9	21.8	6.3	-90.39	-920.9	108.7	280.5	252.6	27.95	10.036 ES, SF		
8,100.0	7,167.0	7,167.2	7,164.5	23.3	6.3	-90.31	-920.9	108.7	299.3	269.9	29.42	10.174		
8,200.0	7,167.0	7,166.8	7,164.1	24.8	6.3	-90.22	-920.9	108.7	347.1	316.2	30.93	11.223		
8,300.0	7,167.0	7,166.4	7,163.6	26.3	6.3	-90.14	-920.9	108.7	414.0	381.5	32.46	12.752		
8,400.0	7,167.0	7,165.9	7,163.2	27.9	6.3	-90.05	-920.9	108.7	492.2	458.2	34.03	14.465		
8,500.0	7,167.0	7,165.5	7,162.8	29.4	6.3	-89.96	-920.9	108.7	577.2	541.6	35.61	16.209		
8,600.0	7,167.0	7,165.1	7,162.3	31.0	6.3	-89.87	-920.9	108.7	666.3	629.1	37.21	17.907		
8,700.0	7,167.0	7,164.6	7,161.9	32.6	6.3	-89.78	-920.9	108.7	758.2	719.4	38.83	19.527		
8,800.0	7,167.0	7,164.2	7,161.4	34.3	6.3	-89.69	-920.9	108.7	851.9	811.5	40.46	21.056		
8,900.0	7,167.0	7,163.7	7,161.0	35.9	6.3	-89.60	-920.9	108.7	946.9	904.8	42.10	22.491		
9,000.0	7,167.0	7,163.2	7,160.5	37.6	6.3	-89.50	-920.9	108.7	1,042.9	999.1	43.76	23.834		
9,100.0	7,167.0	7,162.8	7,160.0	39.2	6.3	-89.40	-920.9	108.7	1,139.5	1,094.1	45.42	25.090		
9,200.0	7,167.0	7,162.3	7,159.6	40.9	6.3	-89.30	-920.9	108.8	1,236.7	1,189.6	47.08	26.264		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1A-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-89.94	0.0	-27.9	27.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-27.9	27.9	27.6	0.30	91.996		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-27.9	27.9	27.3	0.65	42.800	CC, ES	
300.0	300.0	299.5	299.5	0.5	0.5	-89.70	0.1	-28.8	28.8	27.8	1.00	28.763		
400.0	400.0	399.0	398.9	0.7	0.7	-89.07	0.5	-31.4	31.4	30.0	1.35	23.232		
500.0	500.0	498.3	498.2	0.8	0.9	-88.22	1.1	-35.6	35.7	34.0	1.70	20.962		
600.0	600.0	597.5	597.2	1.0	1.1	-49.18	1.9	-41.6	41.2	39.1	2.05	20.120		
700.0	700.0	696.5	695.9	1.2	1.3	-50.51	3.0	-49.2	47.2	44.8	2.40	19.706		
800.0	799.9	795.4	794.4	1.4	1.5	-52.69	4.3	-58.5	53.9	51.2	2.75	19.599		
900.0	899.7	894.1	892.4	1.6	1.8	-55.35	5.9	-69.5	61.4	58.3	3.12	19.691		
1,000.0	999.4	992.6	990.1	1.8	2.0	-58.26	7.6	-82.1	69.7	66.2	3.50	19.908		
1,100.0	1,098.9	1,090.9	1,087.3	2.0	2.3	-61.24	9.6	-96.4	78.9	75.0	3.91	20.192		
1,200.0	1,198.3	1,188.9	1,184.0	2.2	2.6	-64.16	11.9	-112.2	89.1	84.8	4.35	20.500		
1,300.0	1,297.4	1,286.7	1,280.2	2.5	3.0	-66.96	14.3	-129.7	100.4	95.6	4.83	20.799		
1,400.0	1,396.3	1,384.2	1,375.8	2.8	3.3	-69.59	17.0	-148.7	112.8	107.5	5.36	21.069		
1,500.0	1,494.9	1,481.3	1,470.7	3.1	3.7	-72.03	19.9	-169.2	126.4	120.4	5.93	21.300		
1,600.0	1,593.4	1,578.1	1,564.9	3.4	4.2	-74.08	23.0	-191.3	141.3	134.8	6.54	21.601		
1,700.0	1,691.9	1,674.6	1,658.4	3.7	4.6	-75.41	26.3	-214.8	157.8	150.6	7.16	22.023		
1,800.0	1,790.4	1,772.4	1,752.9	4.1	5.1	-76.28	29.8	-239.8	175.3	167.5	7.80	22.483		
1,900.0	1,888.9	1,870.8	1,847.9	4.4	5.5	-76.98	33.4	-265.1	192.9	184.5	8.44	22.852		
2,000.0	1,987.3	1,969.3	1,943.0	4.7	6.0	-77.59	36.9	-290.3	210.5	201.4	9.09	23.153		
2,100.0	2,086.0	2,067.6	2,038.0	5.0	6.5	-77.96	40.4	-315.5	228.4	218.7	9.72	23.507		
2,200.0	2,185.0	2,166.0	2,133.0	5.3	7.0	-77.91	44.0	-340.7	246.7	236.4	10.30	23.950		
2,300.0	2,284.2	2,264.2	2,227.9	5.6	7.4	-77.51	47.5	-365.9	265.3	254.5	10.84	24.478		
2,400.0	2,383.6	2,362.2	2,322.6	5.8	7.9	-76.85	51.1	-391.0	284.4	273.1	11.33	25.093		
2,500.0	2,483.1	2,460.2	2,417.2	6.1	8.4	-75.97	54.6	-416.1	303.9	292.1	11.78	25.798		
2,600.0	2,582.8	2,557.9	2,511.6	6.3	8.9	-74.93	58.1	-441.2	324.0	311.8	12.18	26.594		
2,700.0	2,682.7	2,655.4	2,605.8	6.5	9.4	-73.75	61.6	-466.1	344.6	332.1	12.54	27.487		
2,800.0	2,782.6	2,752.7	2,699.8	6.6	9.8	-72.47	65.1	-491.1	366.0	353.1	12.85	28.480		
2,900.0	2,882.6	2,849.7	2,793.5	6.8	10.3	-71.12	68.6	-515.9	388.1	375.0	13.12	29.575		
3,000.0	2,982.6	2,946.4	2,886.9	6.9	10.8	-108.67	72.1	-540.7	411.0	397.6	13.41	30.646		
3,100.0	3,082.6	3,043.0	2,980.2	7.0	11.3	-107.15	75.6	-565.5	434.5	420.8	13.63	31.876		
3,200.0	3,182.6	3,139.6	3,073.5	7.2	11.7	-105.78	79.1	-590.2	458.2	444.3	13.86	33.069		
3,300.0	3,282.6	3,236.2	3,166.8	7.3	12.2	-104.55	82.5	-615.0	482.1	468.0	14.09	34.223		
3,400.0	3,382.6	3,332.8	3,260.1	7.4	12.7	-103.43	86.0	-639.7	506.2	491.9	14.32	35.338		
3,500.0	3,482.6	3,429.4	3,353.4	7.6	13.2	-102.41	89.5	-664.5	530.5	515.9	14.57	36.411		
3,600.0	3,582.6	3,526.0	3,446.7	7.7	13.7	-101.48	93.0	-689.3	554.9	540.1	14.82	37.444		
3,700.0	3,682.6	3,622.5	3,540.0	7.9	14.1	-100.63	96.5	-714.0	579.5	564.4	15.08	38.437		
3,800.0	3,782.6	3,719.1	3,633.3	8.0	14.6	-99.85	99.9	-738.8	604.1	588.8	15.34	39.390		
3,900.0	3,882.6	3,815.7	3,726.6	8.1	15.1	-99.13	103.4	-763.5	628.9	613.3	15.60	40.306		
4,000.0	3,982.6	3,912.3	3,819.9	8.3	15.6	-98.46	106.9	-788.3	653.7	637.9	15.87	41.185		
4,100.0	4,082.6	4,008.9	3,913.2	8.4	16.0	-97.84	110.4	-813.0	678.7	662.5	16.15	42.029		
4,200.0	4,182.6	4,105.5	4,006.5	8.6	16.5	-97.27	113.8	-837.8	703.7	687.2	16.43	42.839		
4,300.0	4,282.6	4,202.1	4,099.8	8.7	17.0	-96.74	117.3	-862.6	728.7	712.0	16.71	43.616		
4,400.0	4,382.6	4,298.7	4,193.1	8.9	17.5	-96.24	120.8	-887.3	753.8	736.8	16.99	44.363		
4,500.0	4,482.6	4,395.3	4,286.4	9.0	18.0	-95.77	124.3	-912.1	779.0	761.7	17.28	45.080		
4,600.0	4,582.6	4,491.9	4,379.7	9.2	18.4	-95.33	127.8	-936.8	804.2	786.6	17.57	45.769		
4,700.0	4,682.6	4,588.5	4,473.0	9.3	18.9	-94.92	131.2	-961.6	829.4	811.6	17.86	46.431		
4,800.0	4,782.6	4,685.1	4,566.3	9.5	19.4	-94.53	134.7	-986.3	854.7	836.6	18.16	47.068		
4,900.0	4,882.6	4,781.7	4,659.6	9.7	19.9	-94.17	138.2	-1,011.1	880.1	861.6	18.46	47.680		
5,000.0	4,982.6	4,878.3	4,752.9	9.8	20.4	-93.82	141.7	-1,035.9	905.4	886.7	18.76	48.269		
5,100.0	5,082.6	4,974.8	4,846.2	10.0	20.8	-93.50	145.2	-1,060.6	930.8	911.7	19.06	48.836		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1A-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,182.6	5,071.4	4,939.5	10.1	21.3	-93.19	148.6	-1,085.4	956.2	936.8	19.36	49.382		
5,300.0	5,282.6	5,168.0	5,032.8	10.3	21.8	-92.90	152.1	-1,110.1	981.6	962.0	19.67	49.909		
5,400.0	5,382.6	5,278.1	5,139.3	10.4	22.3	-92.58	156.0	-1,137.8	1,006.7	986.7	19.99	50.346		
5,500.0	5,482.6	5,395.9	5,253.7	10.6	22.8	-92.29	159.9	-1,165.3	1,029.9	1,009.5	20.34	50.644		
5,600.0	5,582.6	5,514.8	5,369.9	10.7	23.3	-92.04	163.4	-1,190.7	1,051.1	1,030.4	20.68	50.827		
5,700.0	5,682.6	5,634.8	5,487.5	10.9	23.8	-91.82	166.7	-1,213.9	1,070.3	1,049.3	21.03	50.899		
5,800.0	5,782.6	5,755.7	5,606.6	11.1	24.2	-91.62	169.6	-1,234.8	1,087.5	1,066.1	21.38	50.864		
5,900.0	5,882.6	5,877.5	5,726.9	11.2	24.6	-91.46	172.2	-1,253.3	1,102.7	1,080.9	21.74	50.728		
6,000.0	5,982.6	6,000.0	5,848.4	11.4	24.9	-91.32	174.5	-1,269.4	1,115.7	1,093.6	22.10	50.494		
6,100.0	6,082.6	6,123.2	5,970.8	11.5	25.2	-91.21	176.4	-1,282.9	1,126.7	1,104.3	22.46	50.168		
6,200.0	6,182.6	6,246.9	6,094.0	11.7	25.4	-91.12	178.0	-1,293.9	1,135.6	1,112.8	22.82	49.754		
6,300.0	6,282.6	6,371.1	6,217.8	11.9	25.6	-91.05	179.1	-1,302.3	1,142.3	1,119.1	23.19	49.256		
6,400.0	6,382.6	6,495.5	6,342.1	12.0	25.8	-91.01	179.9	-1,308.0	1,146.9	1,123.4	23.56	48.677		
6,500.0	6,482.6	6,620.1	6,466.7	12.2	25.9	88.52	180.4	-1,311.1	1,149.3	1,125.5	23.86	48.174		
6,600.0	6,581.8	6,735.2	6,581.8	12.3	26.0	89.14	180.4	-1,311.7	1,149.6	1,125.5	24.07	47.768		
6,675.0	6,654.7	6,808.1	6,654.7	12.3	26.1	90.00	180.4	-1,311.7	1,149.4	1,125.3	24.12	47.657		
6,700.0	6,678.5	6,832.4	6,679.0	12.3	26.1	90.36	180.4	-1,311.6	1,149.4	1,125.3	24.13	47.636		
6,800.0	6,770.8	6,935.7	6,781.9	12.3	26.1	91.91	171.9	-1,311.5	1,149.8	1,125.7	24.15	47.616		
6,900.0	6,856.9	7,044.4	6,887.6	12.4	26.2	93.47	147.2	-1,311.0	1,150.6	1,126.4	24.23	47.491		
7,000.0	6,935.0	7,158.8	6,993.5	12.5	26.2	95.00	104.1	-1,310.1	1,151.6	1,127.2	24.46	47.081		
7,100.0	7,003.8	7,279.6	7,096.3	12.8	26.2	96.47	41.1	-1,308.8	1,152.7	1,127.8	24.94	46.212		
7,200.0	7,061.7	7,406.7	7,191.5	13.2	26.3	97.84	-42.9	-1,307.0	1,153.7	1,127.9	25.74	44.812		
7,300.0	7,107.8	7,540.1	7,273.7	13.8	26.5	99.05	-147.6	-1,304.9	1,154.1	1,127.2	26.94	42.842		
7,400.0	7,141.1	7,678.7	7,337.2	14.6	26.9	100.03	-270.6	-1,302.3	1,153.8	1,125.3	28.54	40.431		
7,500.0	7,160.9	7,821.2	7,376.4	15.5	27.5	100.73	-407.3	-1,299.5	1,152.5	1,122.0	30.51	37.770		
7,600.0	7,167.0	7,960.9	7,388.0	16.6	28.3	101.09	-546.2	-1,296.6	1,150.0	1,117.2	32.77	35.095		
7,700.0	7,167.0	8,060.8	7,388.0	17.8	29.0	101.11	-646.2	-1,294.5	1,147.1	1,111.9	35.17	32.611		
7,800.0	7,167.0	8,160.8	7,388.0	19.1	29.8	101.14	-746.1	-1,292.5	1,144.2	1,106.5	37.73	30.323		
7,900.0	7,167.0	8,260.7	7,388.0	20.4	30.7	101.17	-846.0	-1,290.4	1,141.3	1,100.9	40.42	28.235		
8,000.0	7,167.0	8,360.7	7,388.0	21.8	31.6	101.20	-946.0	-1,288.3	1,138.4	1,095.2	43.22	26.342		
8,100.0	7,167.0	8,460.6	7,388.0	23.3	32.6	101.23	-1,045.9	-1,286.3	1,135.6	1,089.5	46.10	24.632		
8,200.0	7,167.0	8,560.6	7,388.0	24.8	33.7	101.26	-1,145.9	-1,284.2	1,132.7	1,083.6	49.05	23.091		
8,300.0	7,167.0	8,660.6	7,388.0	26.3	34.8	101.29	-1,245.8	-1,282.1	1,129.8	1,077.7	52.06	21.700		
8,400.0	7,167.0	8,760.5	7,388.0	27.9	36.0	101.32	-1,345.7	-1,280.1	1,126.9	1,071.8	55.13	20.442		
8,500.0	7,167.0	8,860.5	7,388.0	29.4	37.2	101.35	-1,445.7	-1,278.0	1,124.0	1,065.8	58.23	19.304		
8,600.0	7,167.0	8,960.4	7,388.0	31.0	38.5	101.38	-1,545.6	-1,275.9	1,121.1	1,059.8	61.36	18.270		
8,700.0	7,167.0	9,060.4	7,388.0	32.6	39.8	101.40	-1,645.5	-1,273.9	1,118.3	1,053.7	64.53	17.329		
8,800.0	7,167.0	9,160.3	7,388.0	34.3	41.1	101.43	-1,745.5	-1,271.8	1,115.4	1,047.6	67.72	16.470		
8,900.0	7,167.0	9,260.3	7,388.0	35.9	42.5	101.46	-1,845.4	-1,269.7	1,112.5	1,041.5	70.94	15.683		
9,000.0	7,167.0	9,360.3	7,388.0	37.6	43.9	101.50	-1,945.3	-1,267.7	1,109.6	1,035.4	74.17	14.960		
9,100.0	7,167.0	9,460.2	7,388.0	39.2	45.3	101.53	-2,045.3	-1,265.6	1,106.7	1,029.3	77.42	14.295		
9,200.0	7,167.0	9,560.2	7,388.0	40.9	46.7	101.56	-2,145.2	-1,263.5	1,103.8	1,023.2	80.68	13.682		
9,300.0	7,167.0	9,660.1	7,388.0	42.6	48.2	101.59	-2,245.1	-1,261.5	1,101.0	1,017.0	83.96	13.113		
9,400.0	7,167.0	9,760.1	7,388.0	44.2	49.7	101.62	-2,345.1	-1,259.4	1,098.1	1,010.8	87.24	12.586		
9,500.0	7,167.0	9,860.0	7,388.0	45.9	51.2	101.65	-2,445.0	-1,257.3	1,095.2	1,004.7	90.54	12.096		
9,600.0	7,167.0	9,960.0	7,388.0	47.6	52.7	101.68	-2,544.9	-1,255.3	1,092.3	998.5	93.82	11.643		
9,700.0	7,167.0	10,060.0	7,388.0	49.3	54.2	101.70	-2,644.9	-1,253.2	1,090.4	993.7	96.73	11.273		
9,800.0	7,167.0	10,160.0	7,388.0	51.0	55.8	101.70	-2,744.9	-1,251.1	1,089.5	989.5	100.01	10.895		
9,900.0	7,167.0	10,260.0	7,388.0	52.7	57.3	101.71	-2,844.9	-1,249.1	1,088.7	985.4	103.34	10.535		
10,000.0	7,167.0	10,360.0	7,388.0	54.4	58.9	101.72	-2,944.8	-1,247.0	1,087.8	981.2	106.68	10.197		
10,100.0	7,167.0	10,460.0	7,388.0	56.1	60.5	101.73	-3,044.8	-1,244.9	1,087.0	977.0	110.03	9.879		
10,200.0	7,167.0	10,560.0	7,388.0	57.8	62.1	101.74	-3,144.8	-1,242.9	1,086.1	972.8	113.38	9.580		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1A-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,300.0	7,167.0	10,660.0	7,388.0	59.5	63.7	101.75	-3,244.8	-1,240.8	1,085.3	968.6	116.73	9.297		
10,400.0	7,167.0	10,759.9	7,388.0	61.2	65.3	101.76	-3,344.7	-1,238.7	1,084.4	964.4	120.09	9.030		
10,500.0	7,167.0	10,859.9	7,388.0	63.0	66.9	101.77	-3,444.7	-1,236.7	1,083.6	960.1	123.45	8.777		
10,600.0	7,167.0	10,959.9	7,388.0	64.7	68.5	101.78	-3,544.7	-1,234.6	1,082.7	955.9	126.82	8.538		
10,700.0	7,167.0	11,059.9	7,388.0	66.4	70.1	101.79	-3,644.7	-1,232.5	1,081.9	951.7	130.19	8.310		
10,800.0	7,167.0	11,159.9	7,388.0	68.1	71.8	101.80	-3,744.6	-1,230.4	1,081.0	947.5	133.56	8.094		
10,900.0	7,167.0	11,259.9	7,388.0	69.8	73.4	101.81	-3,844.6	-1,228.4	1,080.2	943.3	136.94	7.888		
11,000.0	7,167.0	11,359.9	7,388.0	71.6	75.1	101.82	-3,944.6	-1,226.3	1,079.3	939.0	140.31	7.692		
11,100.0	7,167.0	11,459.9	7,388.0	73.3	76.7	101.83	-4,044.6	-1,224.2	1,078.5	934.8	143.69	7.505		
11,200.0	7,167.0	11,559.9	7,388.0	75.0	78.4	101.83	-4,144.5	-1,222.2	1,077.6	930.6	147.07	7.327		
11,300.0	7,167.0	11,659.9	7,388.0	76.7	80.0	101.84	-4,244.5	-1,220.1	1,076.8	926.3	150.46	7.157		
11,400.0	7,167.0	11,759.9	7,388.0	78.5	81.7	101.85	-4,344.5	-1,218.0	1,075.9	922.1	153.84	6.994		
11,500.0	7,167.0	11,859.9	7,388.0	80.2	83.3	101.86	-4,444.5	-1,216.0	1,075.1	917.8	157.23	6.838		
11,600.0	7,167.0	11,959.9	7,388.0	81.9	85.0	101.87	-4,544.4	-1,213.9	1,074.2	913.6	160.62	6.688		
11,665.5	7,167.0	12,016.3	7,388.0	83.1	86.0	101.88	-4,600.8	-1,212.7	1,073.7	911.0	162.69	6.600		
11,667.2	7,167.0	12,016.3	7,388.0	83.1	86.0	101.88	-4,600.8	-1,212.7	1,073.7	911.0	162.72	6.599 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1B-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total 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	-89.94	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.94	0.0	-19.6	19.6	19.3	0.30	64.397		
200.0	200.0	200.0	200.0	0.3	0.3	-89.94	0.0	-19.6	19.6	18.9	0.65	29.960		
300.0	300.0	300.0	300.0	0.5	0.5	-89.94	0.0	-19.6	19.6	18.6	1.00	19.521 CC, ES		
400.0	400.0	399.7	399.7	0.7	0.7	-89.48	0.2	-20.4	20.4	19.1	1.35	15.114		
500.0	500.0	499.3	499.2	0.8	0.9	-88.30	0.7	-23.0	23.0	21.3	1.70	13.519		
600.0	600.0	598.8	598.6	1.0	1.0	-49.18	1.5	-27.2	26.7	24.7	2.05	13.040		
700.0	700.0	698.2	697.8	1.2	1.2	-51.01	2.7	-33.1	31.0	28.6	2.40	12.929		
800.0	799.9	797.5	796.8	1.4	1.4	-53.97	4.1	-40.7	36.0	33.2	2.75	13.061		
900.0	899.7	896.6	895.5	1.6	1.7	-57.51	5.9	-50.0	41.7	38.6	3.12	13.363		
1,000.0	999.4	995.6	993.9	1.8	1.9	-61.24	8.1	-61.0	48.4	44.9	3.51	13.778		
1,100.0	1,098.9	1,094.4	1,091.9	2.0	2.2	-64.90	10.5	-73.5	56.0	52.1	3.93	14.259		
1,200.0	1,198.3	1,193.1	1,189.5	2.2	2.5	-68.37	13.3	-87.7	64.6	60.3	4.38	14.767		
1,300.0	1,297.4	1,291.5	1,286.6	2.5	2.8	-71.55	16.3	-103.6	74.4	69.5	4.87	15.272		
1,400.0	1,396.3	1,389.7	1,383.1	2.8	3.1	-74.44	19.7	-121.0	85.3	79.8	5.41	15.753		
1,500.0	1,494.9	1,487.6	1,479.1	3.1	3.5	-77.01	23.4	-139.9	97.3	91.3	6.00	16.197		
1,600.0	1,593.4	1,585.3	1,574.5	3.4	3.9	-79.00	27.4	-160.5	110.6	103.9	6.63	16.687		
1,700.0	1,691.9	1,682.6	1,669.3	3.7	4.3	-80.05	31.7	-182.5	125.2	118.0	7.26	17.254		
1,800.0	1,790.4	1,781.1	1,764.8	4.1	4.7	-80.59	36.2	-205.9	140.8	132.9	7.90	17.822		
1,900.0	1,888.9	1,879.9	1,860.7	4.4	5.2	-81.01	40.8	-229.3	156.4	147.8	8.55	18.287		
2,000.0	1,987.3	1,978.7	1,956.5	4.7	5.6	-81.38	45.4	-252.8	172.0	162.7	9.21	18.674		
2,100.0	2,086.0	2,077.4	2,052.3	5.0	6.0	-81.45	49.9	-276.3	187.7	177.9	9.83	19.087		
2,200.0	2,185.0	2,176.1	2,148.1	5.3	6.5	-81.05	54.5	-299.7	203.7	193.3	10.42	19.556		
2,300.0	2,284.2	2,274.7	2,243.8	5.6	6.9	-80.29	59.0	-323.1	220.1	209.1	10.96	20.086		
2,400.0	2,383.6	2,373.2	2,339.3	5.8	7.4	-79.23	63.6	-346.5	236.8	225.3	11.45	20.684		
2,500.0	2,483.1	2,471.5	2,434.7	6.1	7.8	-77.95	68.1	-369.8	253.9	242.1	11.89	21.358		
2,600.0	2,582.8	2,569.7	2,529.9	6.3	8.3	-76.50	72.6	-393.1	271.6	259.4	12.28	22.114		
2,700.0	2,682.7	2,667.6	2,625.0	6.5	8.7	-74.91	77.2	-416.4	290.0	277.3	12.63	22.961		
2,800.0	2,782.6	2,765.3	2,719.8	6.6	9.2	-73.23	81.7	-439.6	309.0	296.1	12.93	23.903		
2,900.0	2,882.6	2,862.7	2,814.3	6.8	9.6	-71.49	86.2	-462.7	328.9	315.7	13.19	24.946		
3,000.0	2,982.6	2,959.8	2,908.5	6.9	10.1	-108.67	90.7	-485.8	349.7	336.3	13.45	25.993		
3,100.0	3,082.6	3,056.9	3,002.7	7.0	10.5	-106.83	95.1	-508.8	371.1	357.4	13.66	27.166		
3,200.0	3,182.6	3,153.9	3,096.8	7.2	11.0	-105.20	99.6	-531.9	392.8	378.9	13.87	28.312		
3,300.0	3,282.6	3,250.9	3,191.0	7.3	11.4	-103.73	104.1	-554.9	414.7	400.6	14.09	29.426		
3,400.0	3,382.6	3,348.0	3,285.1	7.4	11.9	-102.41	108.6	-578.0	436.9	422.6	14.32	30.505		
3,500.0	3,482.6	3,445.0	3,379.3	7.6	12.3	-101.21	113.0	-601.0	459.3	444.8	14.56	31.548		
3,600.0	3,582.6	3,542.0	3,473.4	7.7	12.8	-100.13	117.5	-624.1	481.9	467.1	14.80	32.554		
3,700.0	3,682.6	3,639.0	3,567.6	7.9	13.2	-99.14	122.0	-647.1	504.6	489.6	15.05	33.523		
3,800.0	3,782.6	3,736.1	3,661.7	8.0	13.7	-98.24	126.5	-670.1	527.5	512.2	15.31	34.455		
3,900.0	3,882.6	3,833.1	3,755.9	8.1	14.1	-97.41	131.0	-693.2	550.4	534.9	15.57	35.351		
4,000.0	3,982.6	3,930.1	3,850.0	8.3	14.6	-96.65	135.4	-716.2	573.5	557.7	15.84	36.213		
4,100.0	4,082.6	4,027.2	3,944.1	8.4	15.0	-95.95	139.9	-739.3	596.7	580.6	16.11	37.040		
4,200.0	4,182.6	4,124.2	4,038.3	8.6	15.5	-95.30	144.4	-762.3	619.9	603.5	16.38	37.834		
4,300.0	4,282.6	4,221.2	4,132.4	8.7	16.0	-94.69	148.9	-785.4	643.2	626.5	16.66	38.597		
4,400.0	4,382.6	4,320.6	4,228.8	8.9	16.4	-94.12	153.5	-808.9	666.5	649.6	16.95	39.323		
4,500.0	4,482.6	4,430.5	4,335.9	9.0	16.9	-93.56	158.3	-833.6	688.7	671.5	17.25	39.918		
4,600.0	4,582.6	4,541.4	4,444.3	9.2	17.3	-93.08	162.7	-856.5	709.1	691.6	17.56	40.375		
4,700.0	4,682.6	4,653.2	4,554.0	9.3	17.7	-92.66	166.8	-877.5	727.7	709.8	17.88	40.701		
4,800.0	4,782.6	4,765.8	4,664.9	9.5	18.1	-92.31	170.5	-896.5	744.5	726.3	18.20	40.902		
4,900.0	4,882.6	4,879.1	4,776.9	9.7	18.5	-92.00	173.8	-913.5	759.3	740.8	18.53	40.983		
5,000.0	4,982.6	4,993.0	4,889.8	9.8	18.8	-91.75	176.7	-928.4	772.3	753.4	18.86	40.950		
5,100.0	5,082.6	5,107.6	5,003.6	10.0	19.0	-91.54	179.1	-941.1	783.3	764.2	19.19	40.810		

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

Anticollision Report

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Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1B-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			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	5,182.6	5,222.6	5,118.1	10.1	19.3	-91.37	181.2	-951.6	792.5	772.9	19.53	40.568		
5,300.0	5,282.6	5,338.0	5,233.2	10.3	19.5	-91.24	182.8	-959.9	799.6	779.7	19.88	40.228		
5,400.0	5,382.6	5,453.7	5,348.8	10.4	19.7	-91.15	184.0	-965.9	804.8	784.6	20.22	39.797		
5,500.0	5,482.6	5,569.6	5,464.6	10.6	19.8	-91.09	184.7	-969.7	808.0	787.4	20.57	39.278		
5,600.0	5,582.6	5,685.6	5,580.6	10.7	19.9	-91.07	185.0	-971.1	809.2	788.3	20.92	38.677		
5,700.0	5,682.6	5,787.6	5,682.6	10.9	20.0	-91.07	185.0	-971.1	809.3	788.0	21.25	38.075		
5,800.0	5,782.6	5,887.6	5,782.6	11.1	20.1	-91.07	185.0	-971.1	809.3	787.7	21.58	37.495		
5,900.0	5,882.6	5,987.6	5,882.6	11.2	20.2	-91.07	185.0	-971.1	809.3	787.3	21.91	36.931		
6,000.0	5,982.6	6,087.6	5,982.6	11.4	20.3	-91.07	185.0	-971.1	809.3	787.0	22.24	36.383		
6,100.0	6,082.6	6,187.6	6,082.6	11.5	20.4	-91.07	185.0	-971.1	809.3	786.7	22.57	35.850		
6,200.0	6,182.6	6,287.6	6,182.6	11.7	20.5	-91.07	185.0	-971.1	809.3	786.4	22.90	35.332		
6,300.0	6,282.6	6,387.6	6,282.6	11.9	20.6	-91.07	185.0	-971.1	809.3	786.0	23.24	34.827		
6,400.0	6,382.6	6,487.6	6,382.6	12.0	20.7	-91.07	185.0	-971.1	809.3	785.7	23.57	34.336		
6,500.0	6,482.6	6,587.9	6,482.9	12.2	20.7	88.43	184.3	-971.1	809.2	785.4	23.83	33.955		
6,600.0	6,581.8	6,688.9	6,583.1	12.3	20.8	88.46	172.7	-970.8	808.8	784.8	24.02	33.670		
6,700.0	6,678.5	6,789.8	6,680.6	12.3	20.8	88.51	147.1	-970.1	807.9	783.8	24.11	33.512		
6,800.0	6,770.8	6,890.7	6,773.6	12.3	20.8	88.60	108.1	-969.0	806.5	782.4	24.16	33.382		
6,900.0	6,866.9	6,991.5	6,860.1	12.4	20.9	88.71	56.6	-967.6	804.7	780.4	24.27	33.155		
7,000.0	6,935.0	7,092.2	6,938.4	12.5	20.9	88.84	-6.6	-965.9	802.5	777.9	24.54	32.695		
7,100.0	7,003.8	7,192.8	7,007.1	12.8	21.0	89.00	-80.0	-963.9	799.9	774.8	25.08	31.894		
7,200.0	7,061.7	7,293.3	7,064.7	13.2	21.3	89.18	-162.2	-961.7	796.9	771.0	25.96	30.703		
7,300.0	7,107.8	7,393.7	7,110.2	13.8	21.6	89.37	-251.6	-959.3	793.8	766.5	27.22	29.163		
7,400.0	7,141.1	7,494.0	7,142.8	14.6	22.1	89.58	-346.3	-956.7	790.4	761.5	28.86	27.388		
7,500.0	7,160.9	7,594.1	7,161.8	15.5	22.7	89.79	-444.5	-954.0	786.8	756.0	30.84	25.518		
7,600.0	7,167.0	7,694.1	7,167.0	16.6	23.5	90.00	-544.2	-951.3	783.3	750.2	33.08	23.681		
7,700.0	7,167.0	7,794.0	7,167.0	17.8	24.3	90.00	-644.1	-948.6	779.7	744.2	35.52	21.948		
7,800.0	7,167.0	7,893.9	7,167.0	19.1	25.2	90.00	-744.0	-945.9	776.1	738.0	38.14	20.350		
7,900.0	7,167.0	7,993.9	7,167.0	20.4	26.2	90.00	-843.9	-943.2	772.5	731.6	40.88	18.895		
8,000.0	7,167.0	8,093.8	7,167.0	21.8	27.3	90.00	-943.8	-940.4	768.9	725.2	43.74	17.580		
8,100.0	7,167.0	8,193.7	7,167.0	23.3	28.5	90.00	-1,043.7	-937.7	765.3	718.6	46.68	16.394		
8,200.0	7,167.0	8,293.7	7,167.0	24.8	29.7	90.00	-1,143.6	-935.0	761.7	712.0	49.70	15.327		
8,300.0	7,167.0	8,393.6	7,167.0	26.3	31.0	90.00	-1,243.5	-932.3	758.1	705.4	52.78	14.365		
8,400.0	7,167.0	8,493.5	7,167.0	27.9	32.3	90.00	-1,343.4	-929.6	754.5	698.6	55.91	13.497		
8,500.0	7,167.0	8,593.5	7,167.0	29.4	33.7	90.00	-1,443.3	-926.9	751.0	691.9	59.08	12.712		
8,600.0	7,167.0	8,693.4	7,167.0	31.0	35.1	90.00	-1,543.2	-924.1	747.4	685.1	62.28	11.999		
8,700.0	7,167.0	8,793.4	7,167.0	32.6	36.5	90.00	-1,643.1	-921.4	743.8	678.3	65.52	11.352		
8,800.0	7,167.0	8,893.3	7,167.0	34.3	38.0	90.00	-1,743.0	-918.7	740.2	671.4	68.78	10.761		
8,900.0	7,167.0	8,993.2	7,167.0	35.9	39.4	90.00	-1,842.9	-916.0	736.6	664.5	72.07	10.220		
9,000.0	7,167.0	9,093.2	7,167.0	37.6	40.9	90.00	-1,942.8	-913.3	733.0	657.6	75.38	9.724		
9,100.0	7,167.0	9,193.1	7,167.0	39.2	42.5	90.00	-2,042.7	-910.6	729.4	650.7	78.70	9.268		
9,200.0	7,167.0	9,293.0	7,167.0	40.9	44.0	90.00	-2,142.6	-907.8	725.8	643.8	82.04	8.847		
9,300.0	7,167.0	9,393.0	7,167.0	42.6	45.6	90.00	-2,242.5	-905.1	722.2	636.8	85.39	8.458		
9,400.0	7,167.0	9,492.9	7,167.0	44.2	47.1	90.00	-2,342.4	-902.4	718.6	629.9	88.76	8.097		
9,500.0	7,167.0	9,592.8	7,167.0	45.9	48.7	90.00	-2,442.3	-899.7	715.1	622.9	92.13	7.761		
9,600.0	7,167.0	9,692.8	7,167.0	47.6	50.3	90.00	-2,542.2	-897.0	711.5	616.0	95.50	7.450		
9,700.0	7,167.0	9,792.7	7,167.0	49.3	51.9	90.00	-2,642.1	-894.3	708.9	610.3	98.58	7.191		
9,800.0	7,167.0	9,892.7	7,167.0	51.0	53.5	90.00	-2,742.0	-891.5	707.3	605.4	101.95	6.938		
9,900.0	7,167.0	9,992.7	7,167.0	52.7	55.1	90.00	-2,842.0	-888.8	705.8	600.5	105.35	6.699		
10,000.0	7,167.0	10,092.7	7,167.0	54.4	56.8	90.00	-2,941.9	-886.1	704.3	595.5	108.77	6.475		
10,100.0	7,167.0	10,192.7	7,167.0	56.1	58.4	90.00	-3,041.9	-883.4	702.8	590.6	112.19	6.264		
10,200.0	7,167.0	10,292.7	7,167.0	57.8	60.0	90.00	-3,141.8	-880.7	701.3	585.6	115.61	6.065		
10,300.0	7,167.0	10,392.7	7,167.0	59.5	61.7	90.00	-3,241.8	-877.9	699.7	580.7	119.05	5.878		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1B-34H - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,400.0	7,167.0	10,492.7	7,167.0	61.2	63.3	90.00	-3,341.8	-875.2	698.2	575.7	122.48	5.701	
10,500.0	7,167.0	10,592.6	7,167.0	63.0	65.0	90.00	-3,441.7	-872.5	696.7	570.8	125.92	5.533	
10,600.0	7,167.0	10,692.6	7,167.0	64.7	66.7	90.00	-3,541.7	-869.8	695.2	565.8	129.36	5.374	
10,700.0	7,167.0	10,792.6	7,167.0	66.4	68.3	90.00	-3,641.6	-867.1	693.7	560.9	132.81	5.223	
10,800.0	7,167.0	10,892.6	7,167.0	68.1	70.0	90.00	-3,741.6	-864.4	692.1	555.9	136.26	5.080	
10,900.0	7,167.0	10,992.6	7,167.0	69.8	71.7	90.00	-3,841.5	-861.6	690.6	550.9	139.71	4.943	
11,000.0	7,167.0	11,092.6	7,167.0	71.6	73.4	90.00	-3,941.5	-858.9	689.1	545.9	143.17	4.813	
11,100.0	7,167.0	11,192.6	7,167.0	73.3	75.1	90.00	-4,041.4	-856.2	687.6	541.0	146.62	4.689	
11,200.0	7,167.0	11,292.6	7,167.0	75.0	76.7	90.00	-4,141.4	-853.5	686.1	536.0	150.08	4.571	
11,300.0	7,167.0	11,392.6	7,167.0	76.7	78.4	90.00	-4,241.3	-850.8	684.5	531.0	153.54	4.458	
11,400.0	7,167.0	11,492.5	7,167.0	78.5	80.1	90.00	-4,341.3	-848.1	683.0	526.0	157.01	4.350	
11,500.0	7,167.0	11,592.5	7,167.0	80.2	81.8	90.00	-4,441.2	-845.3	681.5	521.0	160.47	4.247	
11,600.0	7,167.0	11,692.5	7,167.0	81.9	83.5	90.00	-4,541.2	-842.6	680.0	516.0	163.94	4.148	
11,666.1	7,167.0	11,748.6	7,167.0	83.1	84.5	90.00	-4,597.2	-841.1	679.1	513.0	166.06	4.089	
11,667.2	7,167.0	11,748.6	7,167.0	83.1	84.5	90.00	-4,597.2	-841.1	679.1	513.0	166.08	4.089 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1C-34H - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program:		0-MWD											Offset Well Error:	0.0 ft	
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-89.91	0.0	-8.4	8.4						
100.0	100.0	100.0	100.0	0.2	0.2	-89.91	0.0	-8.4	8.4	8.1	0.30	27.599			
200.0	200.0	200.0	200.0	0.3	0.3	-89.91	0.0	-8.4	8.4	7.7	0.65	12.840			
300.0	300.0	300.0	300.0	0.5	0.5	-89.91	0.0	-8.4	8.4	7.4	1.00	8.366			
400.0	400.0	400.0	400.0	0.7	0.7	-89.91	0.0	-8.4	8.4	7.0	1.35	6.204 CC, ES			
500.0	500.0	499.9	499.8	0.8	0.9	-88.07	0.3	-9.2	9.2	7.5	1.70	5.416			
600.0	600.0	599.7	599.6	1.0	1.0	-48.28	1.2	-11.7	11.1	9.1	2.05	5.427			
700.0	700.0	699.4	699.3	1.2	1.2	-51.04	2.7	-15.7	13.6	11.2	2.40	5.645			
800.0	799.9	799.1	798.8	1.4	1.4	-55.51	4.8	-21.4	16.6	13.8	2.76	6.011			
900.0	899.7	898.8	898.1	1.6	1.6	-60.49	7.4	-28.8	20.3	17.2	3.13	6.491			
1,000.0	999.4	998.3	997.2	1.8	1.8	-65.31	10.7	-37.7	24.9	21.4	3.53	7.052			
1,100.0	1,098.9	1,097.8	1,096.0	2.0	2.1	-69.66	14.5	-48.3	30.3	26.3	3.96	7.659			
1,200.0	1,198.3	1,197.1	1,194.5	2.2	2.3	-73.45	18.9	-60.4	36.6	32.2	4.42	8.280			
1,300.0	1,297.4	1,296.3	1,292.7	2.5	2.6	-76.69	23.9	-74.1	43.8	38.9	4.93	8.891			
1,400.0	1,396.3	1,395.4	1,390.4	2.8	2.9	-79.44	29.5	-89.4	52.0	46.5	5.49	9.474			
1,500.0	1,494.9	1,494.3	1,487.7	3.1	3.3	-81.78	35.6	-106.3	61.1	55.0	6.10	10.019			
1,600.0	1,593.4	1,593.1	1,584.5	3.4	3.6	-83.17	42.3	-124.7	71.2	64.4	6.73	10.576			
1,700.0	1,691.9	1,691.7	1,680.8	3.7	4.0	-83.26	49.6	-144.6	82.3	74.9	7.37	11.167			
1,800.0	1,790.4	1,790.9	1,777.5	4.1	4.4	-82.84	57.2	-165.6	94.1	86.0	8.02	11.735			
1,900.0	1,888.9	1,890.2	1,874.2	4.4	4.8	-82.51	64.9	-186.6	105.8	97.1	8.67	12.208			
2,000.0	1,987.3	1,989.5	1,971.0	4.7	5.2	-82.25	72.5	-207.6	117.6	108.2	9.33	12.608			
2,100.0	2,086.0	2,088.8	2,067.7	5.0	5.7	-81.62	80.2	-228.6	129.5	119.6	9.95	13.020			
2,200.0	2,185.0	2,188.0	2,164.4	5.3	6.1	-80.41	87.8	-249.5	141.7	131.2	10.52	13.474			
2,300.0	2,284.2	2,287.1	2,260.9	5.6	6.5	-78.78	95.4	-270.5	154.4	143.3	11.04	13.984			
2,400.0	2,383.6	2,386.1	2,357.3	5.8	6.9	-76.84	103.0	-291.4	167.5	156.0	11.50	14.562			
2,500.0	2,483.1	2,484.9	2,453.6	6.1	7.3	-74.67	110.6	-312.3	181.3	169.4	11.91	15.220			
2,600.0	2,582.8	2,583.5	2,549.7	6.3	7.8	-72.34	118.2	-333.1	195.8	183.6	12.26	15.971			
2,700.0	2,682.7	2,681.8	2,645.6	6.5	8.2	-69.92	125.8	-353.9	211.3	198.7	12.56	16.823			
2,800.0	2,782.6	2,780.0	2,741.2	6.6	8.6	-67.45	133.3	-374.7	227.7	214.9	12.81	17.783			
2,900.0	2,882.6	2,878.9	2,837.5	6.8	9.0	-64.96	140.9	-395.5	245.3	232.3	13.01	18.854			
3,000.0	2,982.6	2,980.5	2,936.9	6.9	9.4	-101.54	148.3	-415.7	262.9	249.7	13.23	19.877			
3,100.0	3,082.6	3,082.8	3,037.2	7.0	9.8	-99.39	155.0	-434.3	279.7	266.3	13.40	20.869			
3,200.0	3,182.6	3,185.8	3,138.6	7.2	10.2	-97.64	161.3	-451.4	295.3	281.7	13.60	21.706			
3,300.0	3,282.6	3,289.4	3,240.9	7.3	10.5	-96.21	166.9	-466.8	309.4	295.6	13.82	22.386			
3,400.0	3,382.6	3,393.6	3,344.1	7.4	10.8	-95.05	171.9	-480.6	322.1	308.1	14.06	22.911			
3,500.0	3,482.6	3,498.3	3,448.0	7.6	11.1	-94.12	176.3	-492.7	333.3	319.0	14.31	23.286			
3,600.0	3,582.6	3,603.5	3,552.6	7.7	11.3	-93.36	180.0	-503.0	342.9	328.3	14.58	23.517			
3,700.0	3,682.6	3,709.0	3,657.7	7.9	11.5	-92.77	183.1	-511.5	350.8	335.9	14.86	23.610			
3,800.0	3,782.6	3,814.8	3,763.3	8.0	11.7	-92.33	185.6	-518.2	357.1	341.9	15.15	23.573			
3,900.0	3,882.6	3,920.8	3,869.2	8.1	11.9	-92.01	187.4	-523.2	361.6	346.2	15.44	23.413			
4,000.0	3,982.6	4,027.0	3,975.3	8.3	12.0	-91.82	188.5	-526.2	364.5	348.7	15.75	23.139			
4,100.0	4,082.6	4,133.3	4,081.6	8.4	12.2	-91.75	188.9	-527.4	365.6	349.5	16.07	22.756			
4,200.0	4,182.6	4,234.3	4,182.6	8.6	12.3	-91.74	188.9	-527.5	365.6	349.2	16.38	22.322			
4,300.0	4,282.6	4,334.3	4,282.6	8.7	12.4	-91.74	188.9	-527.5	365.6	348.9	16.69	21.903			
4,400.0	4,382.6	4,434.3	4,382.6	8.9	12.5	-91.74	188.9	-527.5	365.6	348.6	17.01	21.498			
4,500.0	4,482.6	4,534.3	4,482.6	9.0	12.6	-91.74	188.9	-527.5	365.6	348.3	17.32	21.105			
4,600.0	4,582.6	4,634.3	4,582.6	9.2	12.7	-91.74	188.9	-527.5	365.6	348.0	17.64	20.725			
4,700.0	4,682.6	4,734.3	4,682.6	9.3	12.8	-91.74	188.9	-527.5	365.6	347.7	17.96	20.358			
4,800.0	4,782.6	4,834.3	4,782.6	9.5	12.9	-91.74	188.9	-527.5	365.6	347.3	18.28	20.002			
4,900.0	4,882.6	4,934.3	4,882.6	9.7	13.0	-91.74	188.9	-527.5	365.6	347.0	18.60	19.657			
5,000.0	4,982.6	5,034.3	4,982.6	9.8	13.1	-91.74	188.9	-527.5	365.6	346.7	18.92	19.323			
5,100.0	5,082.6	5,134.3	5,082.6	10.0	13.3	-91.74	188.9	-527.5	365.6	346.4	19.24	18.999			

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1C-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,182.6	5,234.3	5,182.6	10.1	13.4	-91.74	188.9	-527.5	365.6	346.0	19.57	18.684		
5,300.0	5,282.6	5,334.3	5,282.6	10.3	13.5	-91.74	188.9	-527.5	365.6	345.7	19.89	18.380		
5,400.0	5,382.6	5,434.3	5,382.6	10.4	13.6	-91.74	188.9	-527.5	365.6	345.4	20.22	18.084		
5,500.0	5,482.6	5,534.3	5,482.6	10.6	13.7	-91.74	188.9	-527.5	365.6	345.1	20.54	17.797		
5,600.0	5,582.6	5,634.3	5,582.6	10.7	13.9	-91.74	188.9	-527.5	365.6	344.7	20.87	17.518		
5,700.0	5,682.6	5,734.3	5,682.6	10.9	14.0	-91.74	188.9	-527.5	365.6	344.4	21.20	17.247		
5,800.0	5,782.6	5,834.3	5,782.6	11.1	14.1	-91.74	188.9	-527.5	365.6	344.1	21.53	16.985		
5,900.0	5,882.6	5,934.3	5,882.6	11.2	14.2	-91.74	188.9	-527.5	365.6	343.8	21.86	16.729		
6,000.0	5,982.6	6,034.3	5,982.6	11.4	14.4	-91.74	188.9	-527.5	365.6	343.4	22.18	16.481		
6,100.0	6,082.6	6,134.3	6,082.6	11.5	14.5	-91.74	188.9	-527.5	365.6	343.1	22.51	16.239		
6,200.0	6,182.6	6,234.3	6,182.6	11.7	14.6	-91.74	188.9	-527.5	365.6	342.8	22.85	16.004		
6,300.0	6,282.6	6,334.3	6,282.6	11.9	14.8	-91.74	188.9	-527.5	365.6	342.4	23.18	15.775		
6,400.0	6,382.6	6,434.3	6,382.6	12.0	14.9	-91.74	188.9	-527.5	365.6	342.1	23.51	15.553		
6,500.0	6,482.6	6,534.3	6,482.6	12.2	15.0	87.87	188.9	-527.5	365.6	341.8	23.80	15.364		
6,600.0	6,581.8	6,633.6	6,581.8	12.3	15.1	89.66	188.9	-527.5	365.3	341.4	23.95	15.257		
6,611.6	6,593.3	6,645.0	6,593.3	12.3	15.2	90.00	188.9	-527.5	365.3	341.4	23.95	15.254		
6,700.0	6,678.5	6,730.5	6,678.8	12.3	15.3	93.40	188.9	-527.5	366.0	342.1	23.95	15.284		
6,800.0	6,770.8	6,831.5	6,779.4	12.3	15.4	97.99	180.8	-527.5	369.2	345.3	23.91	15.444		
6,900.0	6,856.9	6,937.5	6,882.6	12.4	15.4	102.46	157.2	-527.5	374.7	350.7	23.91	15.667		
7,000.0	6,935.0	7,049.0	6,986.2	12.5	15.5	106.70	116.2	-527.5	382.0	358.0	24.02	15.903		
7,100.0	7,003.8	7,166.6	7,087.2	12.8	15.5	110.59	56.2	-527.5	390.6	366.3	24.27	16.092		
7,200.0	7,061.7	7,290.7	7,181.5	13.2	15.7	114.05	-24.1	-527.5	399.6	374.9	24.69	16.188		
7,300.0	7,107.8	7,421.1	7,264.2	13.8	16.1	116.97	-124.8	-527.5	408.1	382.8	25.34	16.103		
7,400.0	7,141.1	7,557.4	7,329.6	14.6	16.7	119.25	-244.1	-527.5	415.2	388.9	26.28	15.800		
7,500.0	7,160.9	7,698.3	7,372.3	15.5	17.7	120.82	-378.2	-527.5	419.9	392.4	27.54	15.247		
7,600.0	7,167.0	7,842.2	7,387.9	16.6	19.0	121.60	-521.0	-527.5	421.7	392.5	29.21	14.437		
7,700.0	7,167.0	7,944.1	7,388.0	17.8	20.0	121.67	-622.9	-527.5	420.9	389.7	31.28	13.456		
7,800.0	7,167.0	8,044.1	7,388.0	19.1	21.2	121.73	-722.9	-527.5	420.2	386.7	33.47	12.554		
7,900.0	7,167.0	8,144.1	7,388.0	20.4	22.4	121.80	-822.9	-527.5	419.5	383.7	35.77	11.727		
8,000.0	7,167.0	8,244.1	7,388.0	21.8	23.7	121.86	-922.9	-527.5	418.7	380.6	38.16	10.973		
8,100.0	7,167.0	8,344.1	7,388.0	23.3	25.1	121.92	-1,022.9	-527.5	418.0	377.4	40.62	10.290		
8,200.0	7,167.0	8,444.1	7,388.0	24.8	26.5	121.99	-1,122.9	-527.5	417.2	374.1	43.14	9.671		
8,300.0	7,167.0	8,544.1	7,388.0	26.3	27.9	122.05	-1,222.9	-527.5	416.5	370.8	45.71	9.111		
8,400.0	7,167.0	8,644.1	7,388.0	27.9	29.4	122.11	-1,322.9	-527.5	415.8	367.4	48.33	8.603		
8,500.0	7,167.0	8,744.1	7,388.0	29.4	30.9	122.18	-1,422.9	-527.5	415.0	364.0	50.97	8.142		
8,600.0	7,167.0	8,844.1	7,388.0	31.0	32.4	122.24	-1,522.9	-527.5	414.3	360.6	53.65	7.722		
8,700.0	7,167.0	8,944.1	7,388.0	32.6	33.9	122.31	-1,622.9	-527.5	413.5	357.2	56.34	7.340		
8,800.0	7,167.0	9,044.1	7,388.0	34.3	35.5	122.37	-1,722.9	-527.5	412.8	353.7	59.06	6.990		
8,900.0	7,167.0	9,144.1	7,388.0	35.9	37.1	122.43	-1,822.9	-527.5	412.1	350.3	61.79	6.669		
9,000.0	7,167.0	9,244.1	7,388.0	37.6	38.7	122.50	-1,922.8	-527.5	411.3	346.8	64.54	6.373		
9,100.0	7,167.0	9,344.1	7,388.0	39.2	40.3	122.57	-2,022.8	-527.5	410.6	343.3	67.30	6.101		
9,200.0	7,167.0	9,444.1	7,388.0	40.9	41.9	122.63	-2,122.8	-527.5	409.9	339.8	70.06	5.850		
9,300.0	7,167.0	9,550.2	7,388.0	42.6	43.6	122.77	-2,228.9	-526.6	408.4	335.5	72.87	5.605		
9,400.0	7,167.0	9,656.0	7,388.0	44.2	45.4	123.06	-2,334.7	-523.7	405.4	329.9	75.56	5.365		
9,500.0	7,167.0	9,755.9	7,388.0	45.9	47.0	123.40	-2,434.5	-520.2	401.8	323.7	78.12	5.143		
9,600.0	7,167.0	9,855.8	7,388.0	47.6	48.7	123.74	-2,534.4	-516.7	398.1	317.5	80.64	4.937		
9,700.0	7,167.0	9,955.7	7,388.0	49.3	50.3	124.00	-2,634.3	-513.2	395.3	312.3	83.06	4.759		
9,800.0	7,167.0	10,055.7	7,388.0	51.0	52.0	124.18	-2,734.2	-509.8	393.4	307.7	85.69	4.591		
9,900.0	7,167.0	10,155.7	7,388.0	52.7	53.6	124.37	-2,834.1	-506.3	391.5	303.2	88.33	4.432		
10,000.0	7,167.0	10,255.7	7,388.0	54.4	55.3	124.56	-2,934.0	-502.8	389.6	298.7	90.97	4.283		
10,100.0	7,167.0	10,355.6	7,388.0	56.1	57.0	124.75	-3,033.9	-499.3	387.8	294.2	93.59	4.143		
10,200.0	7,167.0	10,455.6	7,388.0	57.8	58.7	124.95	-3,133.8	-495.8	385.9	289.7	96.20	4.011		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1C-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance					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)	Total Uncertainty Axis			
10,300.0	7,167.0	10,555.2	7,388.0	59.5	60.4	125.14	-3,233.4	-492.3	384.0	285.2	98.79	3.887		
10,400.0	7,167.0	10,650.0	7,388.0	61.2	62.0	125.25	-3,328.1	-489.9	382.9	281.5	101.41	3.776		
10,431.5	7,167.0	10,679.8	7,388.0	61.8	62.5	125.26	-3,358.0	-489.5	382.8	280.6	102.26	3.744		
10,500.0	7,167.0	10,744.8	7,388.0	63.0	63.6	125.23	-3,423.0	-489.1	383.2	279.0	104.18	3.678		
10,600.0	7,167.0	10,839.6	7,388.0	64.7	65.2	125.07	-3,517.7	-489.8	384.8	277.6	107.11	3.592		
10,700.0	7,167.0	10,938.3	7,388.0	66.4	66.9	124.80	-3,616.4	-491.7	387.3	277.1	110.24	3.514		
10,800.0	7,167.0	11,038.2	7,388.0	68.1	68.6	124.53	-3,716.3	-493.7	390.0	276.6	113.42	3.439		
10,900.0	7,167.0	11,138.2	7,388.0	69.8	70.3	124.27	-3,816.2	-495.7	392.6	276.0	116.60	3.367		
11,000.0	7,167.0	11,238.1	7,388.0	71.6	72.0	124.00	-3,916.2	-497.7	395.3	275.5	119.80	3.299		
11,100.0	7,167.0	11,338.1	7,388.0	73.3	73.7	123.75	-4,016.1	-499.7	397.9	274.9	123.02	3.235		
11,200.0	7,167.0	11,438.0	7,388.0	75.0	75.5	123.49	-4,116.0	-501.8	400.6	274.4	126.24	3.173		
11,300.0	7,167.0	11,538.0	7,388.0	76.7	77.2	123.24	-4,215.9	-503.8	403.3	273.8	129.48	3.115		
11,400.0	7,167.0	11,637.9	7,388.0	78.5	78.9	122.99	-4,315.9	-505.8	406.0	273.2	132.73	3.059		
11,500.0	7,167.0	11,737.9	7,388.0	80.2	80.6	122.75	-4,415.8	-507.8	408.7	272.7	135.99	3.005		
11,600.0	7,167.0	11,837.8	7,388.0	81.9	82.4	122.50	-4,515.7	-509.8	411.4	272.1	139.26	2.954		
11,667.2	7,167.0	11,904.2	7,388.0	83.1	83.5	122.35	-4,582.1	-511.1	413.2	271.7	141.45	2.921 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1E-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.04	0.0	11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	11.2	11.2	10.9	0.30	36.798		
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	11.2	11.2	10.5	0.65	17.120		
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	11.2	11.2	10.2	1.00	11.155		
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	11.2	11.2	9.8	1.35	8.273		
500.0	500.0	500.0	500.0	0.8	0.8	90.04	0.0	11.2	11.2	9.5	1.70	6.574 CC, ES		
600.0	600.0	600.0	600.0	1.0	1.0	132.35	0.0	11.2	11.7	9.7	2.05	5.731		
700.0	700.0	699.8	699.8	1.2	1.2	137.37	0.7	11.7	14.1	11.7	2.40	5.872		
800.0	799.9	799.6	799.5	1.4	1.4	139.61	2.6	13.4	18.7	15.9	2.75	6.792		
900.0	899.7	899.2	899.0	1.6	1.6	139.97	5.9	16.2	25.5	22.4	3.11	8.194		
1,000.0	999.4	998.5	998.2	1.8	1.7	139.48	10.5	20.2	34.5	31.0	3.48	9.902		
1,100.0	1,098.9	1,097.5	1,096.9	2.0	1.9	138.72	16.4	25.2	45.7	41.8	3.87	11.802		
1,200.0	1,198.3	1,196.2	1,195.1	2.2	2.2	137.91	23.6	31.3	59.0	54.7	4.27	13.810		
1,300.0	1,297.4	1,294.4	1,292.7	2.5	2.4	137.14	32.0	38.4	74.5	69.8	4.70	15.860		
1,400.0	1,396.3	1,392.0	1,389.5	2.8	2.6	136.44	41.6	46.6	92.2	87.0	5.15	17.906		
1,500.0	1,494.9	1,489.1	1,485.5	3.1	2.9	135.81	52.4	55.8	112.0	106.4	5.63	19.909		
1,600.0	1,593.4	1,585.7	1,580.8	3.4	3.2	135.14	64.4	66.0	133.4	127.2	6.13	21.753		
1,700.0	1,691.9	1,683.0	1,676.7	3.7	3.5	134.31	77.3	76.9	155.3	148.6	6.65	23.354		
1,800.0	1,790.4	1,780.5	1,772.7	4.1	3.8	133.69	90.2	87.9	177.3	170.1	7.18	24.698		
1,900.0	1,888.9	1,878.1	1,868.8	4.4	4.1	133.20	103.1	98.9	199.3	191.6	7.71	25.838		
2,000.0	1,987.3	1,975.6	1,964.9	4.7	4.4	132.83	116.0	109.9	221.2	213.0	8.25	26.808		
2,100.0	2,086.0	2,073.3	2,061.1	5.0	4.8	132.45	128.9	120.9	242.4	233.7	8.79	27.581		
2,200.0	2,185.0	2,171.6	2,157.8	5.3	5.1	131.87	141.9	131.9	262.5	253.2	9.32	28.170		
2,300.0	2,284.2	2,272.7	2,257.6	5.6	5.4	131.25	154.4	142.6	280.9	271.0	9.83	28.575		
2,400.0	2,383.6	2,374.5	2,358.3	5.8	5.7	130.72	165.7	152.2	297.0	286.7	10.31	28.808		
2,500.0	2,483.1	2,476.9	2,459.9	6.1	6.0	130.25	175.6	160.7	311.0	300.3	10.77	28.892		
2,600.0	2,582.8	2,579.8	2,562.1	6.3	6.2	129.82	184.3	168.0	322.8	311.6	11.19	28.847		
2,700.0	2,682.7	2,683.0	2,664.9	6.5	6.5	129.41	191.5	174.2	332.4	320.8	11.59	28.685		
2,800.0	2,782.6	2,786.7	2,768.3	6.6	6.7	129.01	197.4	179.2	339.7	327.7	11.95	28.415		
2,900.0	2,882.6	2,890.5	2,872.0	6.8	6.9	128.62	201.8	182.9	344.8	332.5	12.29	28.043		
3,000.0	2,982.6	2,994.6	2,976.0	6.9	7.0	89.22	204.8	185.5	347.6	335.0	12.61	27.571		
3,100.0	3,082.6	3,098.7	3,080.1	7.0	7.2	88.96	206.4	186.8	348.9	336.0	12.91	27.024		
3,200.0	3,182.6	3,201.2	3,182.6	7.2	7.3	88.92	206.6	187.0	349.1	335.9	13.21	26.434		
3,300.0	3,282.6	3,301.2	3,282.6	7.3	7.5	88.92	206.6	187.0	349.1	335.6	13.50	25.855		
3,400.0	3,382.6	3,401.2	3,382.6	7.4	7.6	88.92	206.6	187.0	349.1	335.3	13.80	25.297		
3,500.0	3,482.6	3,501.2	3,482.6	7.6	7.7	88.92	206.6	187.0	349.1	335.0	14.10	24.758		
3,600.0	3,582.6	3,601.2	3,582.6	7.7	7.9	88.92	206.6	187.0	349.1	334.7	14.40	24.239		
3,700.0	3,682.6	3,701.2	3,682.6	7.9	8.0	88.92	206.6	187.0	349.1	334.4	14.71	23.737		
3,800.0	3,782.6	3,801.2	3,782.6	8.0	8.1	88.92	206.6	187.0	349.1	334.1	15.01	23.252		
3,900.0	3,882.6	3,901.2	3,882.6	8.1	8.3	88.92	206.6	187.0	349.1	333.8	15.32	22.784		
4,000.0	3,982.6	4,001.2	3,982.6	8.3	8.4	88.92	206.6	187.0	349.1	333.5	15.63	22.333		
4,100.0	4,082.6	4,101.2	4,082.6	8.4	8.6	88.92	206.6	187.0	349.1	333.2	15.94	21.896		
4,200.0	4,182.6	4,201.2	4,182.6	8.6	8.7	88.92	206.6	187.0	349.1	332.8	16.26	21.474		
4,300.0	4,282.6	4,301.2	4,282.6	8.7	8.9	88.92	206.6	187.0	349.1	332.5	16.57	21.067		
4,400.0	4,382.6	4,401.2	4,382.6	8.9	9.0	88.92	206.6	187.0	349.1	332.2	16.89	20.673		
4,500.0	4,482.6	4,501.2	4,482.6	9.0	9.2	88.92	206.6	187.0	349.1	331.9	17.20	20.291		
4,600.0	4,582.6	4,601.2	4,582.6	9.2	9.3	88.92	206.6	187.0	349.1	331.6	17.52	19.923		
4,700.0	4,682.6	4,701.2	4,682.6	9.3	9.5	88.92	206.6	187.0	349.1	331.3	17.84	19.566		
4,800.0	4,782.6	4,801.2	4,782.6	9.5	9.6	88.92	206.6	187.0	349.1	330.9	18.16	19.220		
4,900.0	4,882.6	4,901.2	4,882.6	9.7	9.8	88.92	206.6	187.0	349.1	330.6	18.48	18.886		
5,000.0	4,982.6	5,001.2	4,982.6	9.8	9.9	88.92	206.6	187.0	349.1	330.3	18.81	18.562		
5,100.0	5,082.6	5,101.2	5,082.6	10.0	10.1	88.92	206.6	187.0	349.1	330.0	19.13	18.248		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1E-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (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	5,182.6	5,201.2	5,182.6	10.1	10.2	88.92	206.6	187.0	349.1	329.7	19.46	17.944		
5,300.0	5,282.6	5,301.2	5,282.6	10.3	10.4	88.92	206.6	187.0	349.1	329.3	19.78	17.649		
5,400.0	5,382.6	5,401.2	5,382.6	10.4	10.5	88.92	206.6	187.0	349.1	329.0	20.11	17.362		
5,500.0	5,482.6	5,501.2	5,482.6	10.6	10.7	88.92	206.6	187.0	349.1	328.7	20.43	17.085		
5,600.0	5,582.6	5,601.2	5,582.6	10.7	10.9	88.92	206.6	187.0	349.1	328.3	20.76	16.815		
5,700.0	5,682.6	5,701.2	5,682.6	10.9	11.0	88.92	206.6	187.0	349.1	328.0	21.09	16.553		
5,800.0	5,782.6	5,801.2	5,782.6	11.1	11.2	88.92	206.6	187.0	349.1	327.7	21.42	16.299		
5,900.0	5,882.6	5,901.2	5,882.6	11.2	11.3	88.92	206.6	187.0	349.1	327.4	21.75	16.052		
6,000.0	5,982.6	6,001.2	5,982.6	11.4	11.5	88.92	206.6	187.0	349.1	327.0	22.08	15.812		
6,100.0	6,082.6	6,101.2	6,082.6	11.5	11.6	88.92	206.6	187.0	349.1	326.7	22.41	15.579		
6,200.0	6,182.6	6,201.2	6,182.6	11.7	11.8	88.92	206.6	187.0	349.1	326.4	22.74	15.352		
6,300.0	6,282.6	6,301.2	6,282.6	11.9	12.0	88.92	206.6	187.0	349.1	326.0	23.07	15.131		
6,400.0	6,382.6	6,401.2	6,382.6	12.0	12.1	88.92	206.6	187.0	349.1	325.7	23.40	14.916		
6,446.3	6,428.9	6,447.6	6,428.9	12.1	12.2	-91.65	206.6	187.0	349.1	325.6	23.56	14.821		
6,500.0	6,482.6	6,501.2	6,482.6	12.2	12.3	-91.69	206.6	187.0	349.1	325.4	23.73	14.712		
6,600.0	6,581.8	6,600.5	6,581.8	12.3	12.4	-93.50	206.6	187.0	349.6	325.7	23.98	14.579		
6,700.0	6,678.5	6,697.6	6,679.0	12.3	12.6	-97.26	206.6	187.0	352.1	327.9	24.15	14.578		
6,800.0	6,770.8	6,801.4	6,782.3	12.3	12.7	-101.90	198.0	187.0	357.5	333.3	24.20	14.774		
6,900.0	6,856.9	6,910.5	6,888.4	12.4	12.8	-106.30	173.1	187.0	365.3	341.2	24.14	15.131		
7,000.0	6,935.0	7,025.4	6,994.7	12.5	12.8	-110.35	129.7	187.0	374.8	350.8	24.05	15.587		
7,100.0	7,003.8	7,146.7	7,097.8	12.8	12.9	-113.92	66.1	187.0	385.3	361.3	24.02	16.043		
7,200.0	7,061.7	7,274.4	7,193.2	13.2	13.1	-116.94	-18.5	187.0	395.7	371.5	24.18	16.361		
7,300.0	7,107.8	7,408.3	7,275.3	13.8	13.5	-119.31	-124.0	187.0	405.0	380.3	24.71	16.391		
7,400.0	7,141.1	7,547.4	7,338.4	14.6	14.3	-120.95	-247.7	187.0	412.3	386.6	25.72	16.032		
7,500.0	7,160.9	7,690.2	7,377.1	15.5	15.5	-121.81	-385.0	187.1	417.0	389.7	27.31	15.269		
7,600.0	7,167.0	7,828.8	7,388.0	16.6	16.9	-121.88	-522.9	187.1	418.5	389.1	29.41	14.231		
7,700.0	7,167.0	7,928.8	7,388.0	17.8	18.1	-121.82	-622.9	187.1	419.3	387.8	31.46	13.326		
7,800.0	7,167.0	8,028.8	7,388.0	19.1	19.4	-121.75	-722.9	187.1	420.0	386.3	33.66	12.479		
7,900.0	7,167.0	8,128.7	7,388.0	20.4	20.7	-121.69	-822.9	187.1	420.7	384.8	35.97	11.697		
8,000.0	7,167.0	8,228.7	7,388.0	21.8	22.1	-121.63	-922.9	187.1	421.5	383.1	38.38	10.981		
8,100.0	7,167.0	8,328.7	7,388.0	23.3	23.5	-121.57	-1,022.9	187.1	422.2	381.4	40.88	10.329		
8,200.0	7,167.0	8,428.7	7,388.0	24.8	25.0	-121.50	-1,122.9	187.1	423.0	379.5	43.44	9.736		
8,300.0	7,167.0	8,528.7	7,388.0	26.3	26.5	-121.44	-1,222.9	187.1	423.7	377.7	46.07	9.198		
8,400.0	7,167.0	8,628.7	7,388.0	27.9	28.1	-121.38	-1,322.9	187.1	424.5	375.7	48.74	8.709		
8,500.0	7,167.0	8,728.7	7,388.0	29.4	29.6	-121.32	-1,422.9	187.1	425.2	373.8	51.45	8.264		
8,600.0	7,167.0	8,828.7	7,388.0	31.0	31.2	-121.26	-1,522.8	187.1	426.0	371.8	54.20	7.859		
8,700.0	7,167.0	8,928.7	7,388.0	32.6	32.8	-121.20	-1,622.8	187.1	426.7	369.7	56.99	7.488		
8,800.0	7,167.0	9,028.7	7,388.0	34.3	34.5	-121.14	-1,722.8	187.1	427.5	367.7	59.80	7.149		
8,900.0	7,167.0	9,128.7	7,388.0	35.9	36.1	-121.08	-1,822.8	187.1	428.2	365.6	62.63	6.837		
9,000.0	7,167.0	9,228.7	7,388.0	37.6	37.7	-121.02	-1,922.8	187.1	429.0	363.5	65.49	6.550		
9,100.0	7,167.0	9,328.7	7,388.0	39.2	39.4	-120.95	-2,022.8	187.1	429.7	361.4	68.37	6.285		
9,200.0	7,167.0	9,428.7	7,388.0	40.9	41.0	-120.89	-2,122.8	187.1	430.5	359.2	71.26	6.041		
9,300.0	7,167.0	9,528.7	7,388.0	42.6	42.7	-120.84	-2,222.8	187.1	431.2	357.1	74.17	5.814		
9,400.0	7,167.0	9,628.7	7,388.0	44.2	44.4	-120.78	-2,322.8	187.1	432.0	354.9	77.10	5.603		
9,500.0	7,167.0	9,728.7	7,388.0	45.9	46.1	-120.72	-2,422.8	187.1	432.7	352.7	80.04	5.407		
9,600.0	7,167.0	9,828.7	7,388.0	47.6	47.7	-120.66	-2,522.8	187.1	433.5	350.5	82.99	5.223		
9,700.0	7,167.0	9,928.7	7,388.0	49.3	49.4	-120.67	-2,622.8	187.1	433.4	347.5	85.91	5.045		
9,800.0	7,167.0	10,028.7	7,388.0	51.0	51.1	-120.75	-2,722.8	187.1	432.4	343.6	88.77	4.871		
9,900.0	7,167.0	10,128.7	7,388.0	52.7	52.8	-120.83	-2,822.8	187.2	431.3	339.7	91.62	4.708		
10,000.0	7,167.0	10,228.7	7,388.0	54.4	54.5	-120.91	-2,922.8	187.2	430.3	335.8	94.48	4.555		
10,100.0	7,167.0	10,328.7	7,388.0	56.1	56.2	-120.99	-3,022.8	187.2	429.3	332.0	97.34	4.410		
10,200.0	7,167.0	10,428.6	7,388.0	57.8	57.9	-121.07	-3,122.8	187.2	428.3	328.1	100.19	4.274		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1E-34H - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	7,167.0	10,528.6	7,388.0	59.5	59.6	-121.15	-3,222.8	187.2	427.2	324.2	103.05	4.146	
10,400.0	7,167.0	10,628.6	7,388.0	61.2	61.4	-121.24	-3,322.8	187.2	426.2	320.3	105.90	4.025	
10,500.0	7,167.0	10,728.6	7,388.0	63.0	63.1	-121.32	-3,422.8	187.2	425.2	316.4	108.76	3.910	
10,600.0	7,167.0	10,828.6	7,388.0	64.7	64.8	-121.40	-3,522.7	187.2	424.2	312.6	111.61	3.801	
10,700.0	7,167.0	10,928.6	7,388.0	66.4	66.5	-121.49	-3,622.7	187.2	423.2	308.7	114.45	3.697	
10,800.0	7,167.0	11,028.6	7,388.0	68.1	68.2	-121.57	-3,722.7	187.2	422.1	304.8	117.30	3.599	
10,900.0	7,167.0	11,128.6	7,388.0	69.8	70.0	-121.66	-3,822.7	187.2	421.1	301.0	120.14	3.505	
11,000.0	7,167.0	11,228.6	7,388.0	71.6	71.7	-121.74	-3,922.7	187.2	420.1	297.1	122.98	3.416	
11,100.0	7,167.0	11,328.6	7,388.0	73.3	73.4	-121.83	-4,022.7	187.2	419.1	293.3	125.81	3.331	
11,200.0	7,167.0	11,428.6	7,388.0	75.0	75.1	-121.92	-4,122.7	187.2	418.1	289.4	128.64	3.250	
11,300.0	7,167.0	11,528.6	7,388.0	76.7	76.9	-122.00	-4,222.7	187.2	417.1	285.6	131.46	3.172	
11,400.0	7,167.0	11,628.6	7,388.0	78.5	78.6	-122.09	-4,322.7	187.2	416.0	281.8	134.29	3.098	
11,500.0	7,167.0	11,728.6	7,388.0	80.2	80.3	-122.18	-4,422.7	187.2	415.0	277.9	137.10	3.027	
11,600.0	7,167.0	11,828.5	7,388.0	81.9	82.1	-122.26	-4,522.7	187.2	414.0	274.1	139.91	2.959	
11,667.2	7,167.0	11,892.2	7,388.0	83.1	83.2	-122.32	-4,586.3	187.2	413.3	271.6	141.75	2.916 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1F-34H - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
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	90.04	0.0	22.4	22.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.04	0.0	22.4	22.4	22.0	0.30	73.597			
200.0	200.0	200.0	200.0	0.3	0.3	90.04	0.0	22.4	22.4	21.7	0.65	34.240			
300.0	300.0	300.0	300.0	0.5	0.5	90.04	0.0	22.4	22.4	21.3	1.00	22.310			
400.0	400.0	400.0	400.0	0.7	0.7	90.04	0.0	22.4	22.4	21.0	1.35	16.545 CC, ES			
500.0	500.0	499.6	499.6	0.8	0.8	89.24	0.3	23.2	23.2	21.5	1.70	13.625			
600.0	600.0	599.2	599.1	1.0	1.0	127.65	1.3	25.6	26.1	24.1	2.05	12.757			
700.0	700.0	698.6	698.4	1.2	1.2	128.57	2.9	29.6	31.8	29.4	2.40	13.253			
800.0	799.9	797.6	797.3	1.4	1.4	130.18	5.1	35.1	40.2	37.4	2.75	14.588			
900.0	899.7	896.3	895.7	1.6	1.6	131.85	8.0	42.3	51.3	48.2	3.12	16.464			
1,000.0	999.4	994.4	993.3	1.8	1.8	133.35	11.5	50.9	65.1	61.7	3.48	18.693			
1,100.0	1,098.9	1,091.9	1,090.2	2.0	2.1	134.59	15.6	61.0	81.7	77.9	3.86	21.147			
1,200.0	1,198.3	1,188.6	1,186.2	2.2	2.3	135.59	20.3	72.6	101.0	96.8	4.26	23.732			
1,300.0	1,297.4	1,284.5	1,281.0	2.5	2.6	136.38	25.5	85.5	123.0	118.4	4.66	26.379			
1,400.0	1,396.3	1,379.5	1,374.7	2.8	2.9	137.01	31.3	99.8	147.7	142.6	5.09	29.039			
1,500.0	1,494.9	1,475.3	1,469.1	3.1	3.2	137.61	37.5	115.2	174.5	169.0	5.52	31.599			
1,600.0	1,593.4	1,571.5	1,563.8	3.4	3.5	138.36	43.7	130.7	202.1	196.1	5.98	33.817			
1,700.0	1,691.9	1,667.6	1,658.4	3.7	3.8	138.93	50.0	146.1	229.7	223.2	6.43	35.697			
1,800.0	1,790.4	1,763.7	1,753.1	4.1	4.1	139.37	56.2	161.6	257.2	250.3	6.90	37.305			
1,900.0	1,888.9	1,859.8	1,847.7	4.4	4.5	139.73	62.5	177.1	284.8	277.5	7.36	38.694			
2,000.0	1,987.3	1,955.9	1,942.4	4.7	4.8	140.06	68.8	192.6	312.4	304.6	7.83	39.891			
2,100.0	2,086.0	2,052.2	2,037.3	5.0	5.1	140.35	75.0	208.1	339.1	330.8	8.30	40.847			
2,200.0	2,185.0	2,149.0	2,132.5	5.3	5.5	140.43	81.3	223.6	364.5	355.8	8.76	41.590			
2,300.0	2,284.2	2,246.0	2,228.1	5.6	5.8	140.35	87.6	239.3	388.6	379.4	9.22	42.160			
2,400.0	2,383.6	2,343.3	2,323.9	5.8	6.1	140.12	94.0	254.9	411.5	401.8	9.66	42.587			
2,500.0	2,483.1	2,440.9	2,420.0	6.1	6.5	139.77	100.3	270.6	433.0	422.9	10.09	42.899			
2,600.0	2,582.8	2,538.7	2,516.4	6.3	6.8	139.32	106.7	286.4	453.3	442.7	10.51	43.116			
2,700.0	2,682.7	2,636.8	2,612.9	6.5	7.1	138.77	113.0	302.2	472.3	461.4	10.92	43.257			
2,800.0	2,782.6	2,734.9	2,709.6	6.6	7.5	138.12	119.4	318.0	490.1	478.8	11.31	43.338			
2,900.0	2,882.6	2,833.3	2,806.4	6.8	7.8	137.39	125.8	333.8	506.7	495.0	11.68	43.370			
3,000.0	2,982.6	2,931.7	2,903.4	6.9	8.2	97.55	132.2	349.7	522.2	510.2	12.03	43.402			
3,100.0	3,082.6	3,030.2	3,000.4	7.0	8.5	96.64	138.6	365.5	537.4	525.0	12.38	43.404			
3,200.0	3,182.6	3,128.7	3,097.4	7.2	8.9	95.78	145.0	381.4	552.8	540.1	12.73	43.427			
3,300.0	3,282.6	3,227.2	3,194.3	7.3	9.2	94.97	151.4	397.2	568.3	555.2	13.07	43.466			
3,400.0	3,382.6	3,325.7	3,291.3	7.4	9.5	94.20	157.9	413.1	583.8	570.4	13.42	43.519			
3,500.0	3,482.6	3,424.1	3,388.3	7.6	9.9	93.47	164.3	429.0	599.5	585.7	13.76	43.583			
3,600.0	3,582.6	3,522.6	3,485.3	7.7	10.2	92.77	170.7	444.8	615.3	601.2	14.09	43.656			
3,700.0	3,682.6	3,622.3	3,583.5	7.9	10.6	92.11	177.1	460.9	631.1	616.7	14.43	43.730			
3,800.0	3,782.6	3,732.3	3,692.0	8.0	10.9	91.46	183.8	477.4	646.0	631.2	14.78	43.698			
3,900.0	3,882.6	3,842.8	3,801.4	8.1	11.3	90.90	189.7	492.0	659.1	644.0	15.13	43.564			
4,000.0	3,982.6	3,954.0	3,911.7	8.3	11.6	90.44	194.9	504.8	670.6	655.1	15.48	43.331			
4,100.0	4,082.6	4,065.6	4,022.7	8.4	11.8	90.07	199.3	515.6	680.3	664.5	15.82	43.001			
4,200.0	4,182.6	4,177.7	4,134.4	8.6	12.1	89.77	202.9	524.5	688.2	672.0	16.16	42.579			
4,300.0	4,282.6	4,290.1	4,246.5	8.7	12.3	89.54	205.6	531.3	694.3	677.8	16.50	42.068			
4,400.0	4,382.6	4,402.7	4,359.0	8.9	12.4	89.39	207.6	536.1	698.6	681.7	16.84	41.473			
4,500.0	4,482.6	4,515.5	4,471.8	9.0	12.6	89.30	208.7	538.9	701.0	683.8	17.18	40.797			
4,600.0	4,582.6	4,626.3	4,582.6	9.2	12.7	89.27	209.0	539.6	701.7	684.1	17.52	40.053			
4,700.0	4,682.6	4,726.3	4,682.6	9.3	12.8	89.27	209.0	539.6	701.7	683.8	17.84	39.333			
4,800.0	4,782.6	4,826.3	4,782.6	9.5	12.9	89.27	209.0	539.6	701.7	683.5	18.16	38.637			
4,900.0	4,882.6	4,926.3	4,882.6	9.7	13.1	89.27	209.0	539.6	701.7	683.2	18.48	37.963			
5,000.0	4,982.6	5,026.3	4,982.6	9.8	13.2	89.27	209.0	539.6	701.7	682.8	18.81	37.310			
5,100.0	5,082.6	5,126.3	5,082.6	10.0	13.3	89.27	209.0	539.6	701.7	682.5	19.13	36.677			

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1F-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		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	5,182.6	5,226.3	5,182.6	10.1	13.4	89.27	209.0	539.6	701.7	682.2	19.46		36.064	
5,300.0	5,282.6	5,326.3	5,282.6	10.3	13.5	89.27	209.0	539.6	701.7	681.9	19.78		35.469	
5,400.0	5,382.6	5,426.3	5,382.6	10.4	13.6	89.27	209.0	539.6	701.7	681.5	20.11		34.893	
5,500.0	5,482.6	5,526.3	5,482.6	10.6	13.8	89.27	209.0	539.6	701.7	681.2	20.44		34.333	
5,600.0	5,582.6	5,626.3	5,582.6	10.7	13.9	89.27	209.0	539.6	701.7	680.9	20.76		33.791	
5,700.0	5,682.6	5,726.3	5,682.6	10.9	14.0	89.27	209.0	539.6	701.7	680.6	21.09		33.264	
5,800.0	5,782.6	5,826.3	5,782.6	11.1	14.1	89.27	209.0	539.6	701.7	680.2	21.42		32.752	
5,900.0	5,882.6	5,926.3	5,882.6	11.2	14.3	89.27	209.0	539.6	701.7	679.9	21.75		32.255	
6,000.0	5,982.6	6,026.3	5,982.6	11.4	14.4	89.27	209.0	539.6	701.7	679.6	22.08		31.772	
6,100.0	6,082.6	6,126.3	6,082.6	11.5	14.5	89.27	209.0	539.6	701.7	679.2	22.42		31.302	
6,200.0	6,182.6	6,226.3	6,182.6	11.7	14.6	89.27	209.0	539.6	701.7	678.9	22.75		30.845	
6,300.0	6,282.6	6,326.3	6,282.6	11.9	14.8	89.27	209.0	539.6	701.7	678.6	23.08		30.401	
6,400.0	6,382.6	6,426.3	6,382.6	12.0	14.9	89.27	209.0	539.6	701.7	678.2	23.41		29.969	
6,440.7	6,423.3	6,467.0	6,423.3	12.1	15.0	-91.26	209.0	539.6	701.7	678.1	23.56		29.781	
6,500.0	6,482.6	6,526.6	6,482.9	12.2	15.0	-91.25	208.5	539.6	701.7	677.9	23.75		29.549	
6,600.0	6,581.8	6,628.0	6,583.6	12.3	15.1	-91.31	197.8	539.6	701.8	677.8	23.94		29.317	
6,700.0	6,678.5	6,729.4	6,681.9	12.3	15.1	-91.34	173.0	539.6	702.0	678.0	24.03		29.215	
6,800.0	6,770.8	6,831.0	6,775.8	12.3	15.2	-91.35	134.5	539.6	702.3	678.3	24.09		29.161	
6,900.0	6,856.9	6,932.6	6,863.3	12.4	15.2	-91.33	83.1	539.6	702.8	678.6	24.19		29.052	
7,000.0	6,935.0	7,034.2	6,942.7	12.5	15.3	-91.29	19.8	539.6	703.3	678.9	24.44		28.773	
7,100.0	7,003.8	7,135.8	7,012.3	12.8	15.5	-91.22	-54.0	539.6	703.9	679.0	24.94		28.225	
7,200.0	7,061.7	7,237.3	7,070.8	13.2	15.8	-91.12	-136.9	539.6	704.6	678.9	25.77		27.349	
7,300.0	7,107.8	7,338.8	7,117.0	13.8	16.3	-91.01	-227.2	539.6	705.4	678.4	26.96		26.161	
7,400.0	7,141.1	7,440.1	7,149.9	14.6	16.9	-90.87	-322.9	539.6	706.2	677.7	28.54		24.741	
7,500.0	7,160.9	7,541.3	7,168.9	15.5	17.8	-90.72	-422.2	539.5	707.0	676.6	30.47		23.204	
7,600.0	7,167.0	7,642.2	7,174.0	16.6	18.7	-90.57	-522.9	539.5	707.9	675.2	32.68		21.660	
7,700.0	7,167.0	7,742.2	7,174.0	17.8	19.8	-90.57	-622.9	539.5	708.8	673.7	35.10		20.190	
7,800.0	7,167.0	7,842.2	7,174.0	19.1	20.9	-90.57	-722.9	539.5	709.6	671.9	37.69		18.827	
7,900.0	7,167.0	7,942.2	7,174.0	20.4	22.2	-90.57	-822.9	539.5	710.5	670.1	40.42		17.579	
8,000.0	7,167.0	8,042.2	7,174.0	21.8	23.5	-90.57	-922.9	539.5	711.4	668.1	43.26		16.445	
8,100.0	7,167.0	8,142.2	7,174.0	23.3	24.8	-90.57	-1,022.9	539.5	712.2	666.0	46.19		15.420	
8,200.0	7,167.0	8,242.2	7,174.0	24.8	26.3	-90.57	-1,122.9	539.5	713.1	663.9	49.20		14.495	
8,300.0	7,167.0	8,342.2	7,174.0	26.3	27.7	-90.56	-1,222.9	539.5	714.0	661.7	52.26		13.661	
8,400.0	7,167.0	8,442.2	7,174.0	27.9	29.2	-90.56	-1,322.9	539.5	714.8	659.4	55.39		12.906	
8,500.0	7,167.0	8,542.2	7,174.0	29.4	30.7	-90.56	-1,422.9	539.5	715.7	657.1	58.55		12.223	
8,600.0	7,167.0	8,642.2	7,174.0	31.0	32.2	-90.56	-1,522.9	539.5	716.6	654.8	61.75		11.604	
8,700.0	7,167.0	8,742.2	7,174.0	32.6	33.8	-90.56	-1,622.9	539.5	717.4	652.4	64.99		11.039	
8,800.0	7,167.0	8,842.2	7,174.0	34.3	35.3	-90.56	-1,722.9	539.5	718.3	650.1	68.25		10.525	
8,900.0	7,167.0	8,942.2	7,174.0	35.9	36.9	-90.56	-1,822.9	539.5	719.2	647.6	71.53		10.054	
9,000.0	7,167.0	9,042.2	7,174.0	37.6	38.5	-90.56	-1,922.9	539.5	720.0	645.2	74.84		9.621	
9,100.0	7,167.0	9,142.2	7,174.0	39.2	40.2	-90.56	-2,022.9	539.5	720.9	642.7	78.16		9.223	
9,200.0	7,167.0	9,242.2	7,174.0	40.9	41.8	-90.56	-2,122.9	539.4	721.8	640.3	81.50		8.856	
9,300.0	7,167.0	9,342.2	7,174.0	42.6	43.4	-90.56	-2,222.9	539.4	722.6	637.8	84.85		8.517	
9,400.0	7,167.0	9,442.2	7,174.0	44.2	45.1	-90.56	-2,322.9	539.4	723.5	635.3	88.21		8.202	
9,500.0	7,167.0	9,542.1	7,174.0	45.9	46.7	-90.56	-2,422.9	539.4	724.4	632.8	91.59		7.909	
9,600.0	7,167.0	9,642.1	7,174.0	47.6	48.4	-90.56	-2,522.9	539.4	725.2	630.2	94.98		7.636	
9,700.0	7,167.0	9,742.1	7,174.0	49.3	50.1	-90.56	-2,622.9	539.4	725.1	626.6	98.47		7.364	
9,800.0	7,167.0	9,842.1	7,174.0	51.0	51.7	-90.56	-2,722.9	539.4	723.9	622.0	101.88		7.106	
9,900.0	7,167.0	9,942.1	7,174.0	52.7	53.4	-90.56	-2,822.9	539.4	722.7	617.4	105.29		6.864	
10,000.0	7,167.0	10,042.1	7,174.0	54.4	55.1	-90.56	-2,922.8	539.4	721.5	612.8	108.70		6.638	
10,100.0	7,167.0	10,142.1	7,174.0	56.1	56.8	-90.56	-3,022.8	539.4	720.3	608.2	112.12		6.424	
10,200.0	7,167.0	10,242.1	7,174.0	57.8	58.5	-90.56	-3,122.8	539.4	719.1	603.5	115.55		6.223	

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1F-34H - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	
10,300.0	7,167.0	10,342.1	7,174.0	59.5	60.2	-90.56	-3,222.8	539.4	717.9	598.9	118.98	6.034	
10,400.0	7,167.0	10,442.1	7,174.0	61.2	61.9	-90.56	-3,322.8	539.4	716.7	594.3	122.41	5.855	
10,500.0	7,167.0	10,542.1	7,174.0	63.0	63.6	-90.56	-3,422.8	539.4	715.5	589.6	125.85	5.685	
10,600.0	7,167.0	10,642.1	7,174.0	64.7	65.3	-90.56	-3,522.8	539.4	714.3	585.0	129.29	5.525	
10,700.0	7,167.0	10,742.1	7,174.0	66.4	67.0	-90.56	-3,622.8	539.4	713.1	580.3	132.74	5.372	
10,800.0	7,167.0	10,842.1	7,174.0	68.1	68.7	-90.56	-3,722.8	539.4	711.9	575.7	136.19	5.227	
10,900.0	7,167.0	10,942.1	7,174.0	69.8	70.4	-90.57	-3,822.8	539.3	710.7	571.0	139.64	5.089	
11,000.0	7,167.0	11,042.0	7,174.0	71.6	72.1	-90.57	-3,922.8	539.3	709.5	566.4	143.09	4.958	
11,100.0	7,167.0	11,142.0	7,174.0	73.3	73.8	-90.57	-4,022.8	539.3	708.2	561.7	146.55	4.833	
11,200.0	7,167.0	11,242.0	7,174.0	75.0	75.5	-90.57	-4,122.8	539.3	707.0	557.0	150.01	4.713	
11,300.0	7,167.0	11,342.0	7,174.0	76.7	77.3	-90.57	-4,222.7	539.3	705.8	552.4	153.47	4.599	
11,400.0	7,167.0	11,442.0	7,174.0	78.5	79.0	-90.57	-4,322.7	539.3	704.6	547.7	156.93	4.490	
11,500.0	7,167.0	11,542.0	7,174.0	80.2	80.7	-90.57	-4,422.7	539.3	703.4	543.0	160.40	4.385	
11,600.0	7,167.0	11,642.0	7,174.0	81.9	82.4	-90.57	-4,522.7	539.3	702.2	538.4	163.87	4.285	
11,667.2	7,167.0	11,701.9	7,174.0	83.1	83.5	-90.57	-4,582.6	539.3	701.4	535.4	166.07	4.224 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1G-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	30.7	30.7	30.4	0.30	101.196		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	30.7	30.7	30.1	0.65	47.080		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	30.7	30.7	29.7	1.00	30.676 CC, ES		
400.0	400.0	399.5	399.5	0.7	0.7	89.66	0.2	31.6	31.6	30.2	1.35	23.381		
500.0	500.0	498.9	498.8	0.8	0.9	88.60	0.8	34.1	34.1	32.4	1.70	20.050		
600.0	600.0	598.2	598.0	1.0	1.0	127.15	1.9	38.2	38.9	36.8	2.05	18.988		
700.0	700.0	697.2	696.8	1.2	1.2	128.03	3.4	44.1	46.4	44.0	2.40	19.346		
800.0	799.9	795.8	795.1	1.4	1.4	129.58	5.3	51.5	56.6	53.9	2.75	20.594		
900.0	899.7	893.8	892.8	1.6	1.7	131.30	7.6	60.5	69.7	66.6	3.11	22.420		
1,000.0	999.4	991.3	989.6	1.8	1.9	132.93	10.3	71.1	85.6	82.1	3.48	24.628		
1,100.0	1,098.9	1,088.0	1,085.5	2.0	2.2	134.37	13.4	83.1	104.3	100.5	3.85	27.085		
1,200.0	1,198.3	1,183.8	1,180.3	2.2	2.4	135.60	16.9	96.6	125.9	121.6	4.24	29.694		
1,300.0	1,297.4	1,278.6	1,273.9	2.5	2.7	136.62	20.7	111.5	150.2	145.5	4.64	32.385		
1,400.0	1,396.3	1,372.4	1,366.2	2.8	3.1	137.47	24.9	127.7	177.2	172.2	5.05	35.107		
1,500.0	1,494.9	1,465.0	1,457.0	3.1	3.4	138.17	29.3	145.1	207.0	201.5	5.47	37.821		
1,600.0	1,593.4	1,558.7	1,548.6	3.4	3.8	138.88	34.1	163.8	238.5	232.6	5.91	40.330		
1,700.0	1,691.9	1,653.5	1,641.4	3.7	4.1	139.42	39.0	182.9	270.2	263.8	6.36	42.456		
1,800.0	1,790.4	1,748.3	1,734.1	4.1	4.5	139.84	44.0	202.0	301.9	295.1	6.82	44.275		
1,900.0	1,888.9	1,843.2	1,826.9	4.4	4.9	140.18	48.9	221.1	333.6	326.3	7.28	45.845		
2,000.0	1,987.3	1,938.0	1,919.7	4.7	5.2	140.51	53.8	240.2	365.3	357.5	7.74	47.195		
2,100.0	2,086.0	2,033.1	2,012.7	5.0	5.6	140.83	58.7	259.4	396.1	387.9	8.20	48.277		
2,200.0	2,185.0	2,128.7	2,106.2	5.3	6.0	140.98	63.6	278.6	425.6	416.9	8.66	49.140		
2,300.0	2,284.2	2,224.6	2,200.0	5.6	6.4	140.97	68.6	297.9	453.8	444.7	9.11	49.826		
2,400.0	2,383.6	2,320.9	2,294.2	5.8	6.8	140.85	73.6	317.3	480.8	471.2	9.55	50.367		
2,500.0	2,483.1	2,417.4	2,388.6	6.1	7.1	140.61	78.5	336.8	506.4	496.4	9.97	50.791		
2,600.0	2,582.8	2,514.3	2,483.4	6.3	7.5	140.29	83.6	356.3	530.8	520.4	10.38	51.120		
2,700.0	2,682.7	2,611.5	2,578.4	6.5	7.9	139.87	88.6	375.8	553.9	543.1	10.78	51.372		
2,800.0	2,782.6	2,708.9	2,673.7	6.6	8.3	139.39	93.6	395.4	575.8	564.6	11.17	51.562		
2,900.0	2,882.6	2,806.5	2,769.2	6.8	8.7	138.83	98.7	415.1	596.4	584.9	11.54	51.704		
3,000.0	2,982.6	2,904.2	2,864.8	6.9	9.1	99.17	103.7	434.8	615.9	604.0	11.87	51.878		
3,100.0	3,082.6	3,002.0	2,960.5	7.0	9.5	98.42	108.8	454.5	635.1	622.9	12.21	51.994		
3,200.0	3,182.6	3,099.9	3,056.1	7.2	9.9	97.72	113.8	474.2	654.3	641.8	12.55	52.121		
3,300.0	3,282.6	3,197.7	3,151.8	7.3	10.3	97.06	118.9	493.9	673.7	660.8	12.89	52.257		
3,400.0	3,382.6	3,295.5	3,247.5	7.4	10.7	96.43	123.9	513.6	693.2	679.9	13.23	52.400		
3,500.0	3,482.6	3,393.3	3,343.2	7.6	11.1	95.84	129.0	533.3	712.7	699.1	13.56	52.546		
3,600.0	3,582.6	3,491.1	3,438.9	7.7	11.5	95.27	134.1	553.0	732.3	718.4	13.90	52.696		
3,700.0	3,682.6	3,588.9	3,534.5	7.9	11.9	94.74	139.1	572.7	751.9	737.7	14.23	52.847		
3,800.0	3,782.6	3,686.8	3,630.2	8.0	12.3	94.24	144.2	592.4	771.6	757.1	14.56	52.999		
3,900.0	3,882.6	3,784.6	3,725.9	8.1	12.7	93.76	149.2	612.1	791.4	776.5	14.89	53.150		
4,000.0	3,982.6	3,882.4	3,821.6	8.3	13.1	93.30	154.3	631.8	811.2	796.0	15.22	53.300		
4,100.0	4,082.6	3,980.2	3,917.2	8.4	13.5	92.87	159.4	651.5	831.1	815.6	15.55	53.449		
4,200.0	4,182.6	4,078.0	4,012.9	8.6	13.9	92.45	164.4	671.2	851.0	835.1	15.88	53.595		
4,300.0	4,282.6	4,175.8	4,108.6	8.7	14.3	92.05	169.5	690.9	871.0	854.8	16.21	53.739		
4,400.0	4,382.6	4,273.6	4,204.3	8.9	14.7	91.68	174.5	710.6	891.0	874.4	16.54	53.881		
4,500.0	4,482.6	4,371.5	4,300.0	9.0	15.1	91.32	179.6	730.3	911.0	894.1	16.86	54.019		
4,600.0	4,582.6	4,471.0	4,397.3	9.2	15.5	90.96	184.7	750.3	931.0	913.9	17.20	54.145		
4,700.0	4,682.6	4,567.5	4,511.6	9.3	15.9	90.59	190.4	772.4	950.0	932.4	17.55	54.122		
4,800.0	4,782.6	4,705.0	4,627.2	9.5	16.3	90.27	195.6	792.4	967.0	949.1	17.91	53.991		
4,900.0	4,882.6	4,823.3	4,744.1	9.7	16.7	90.00	200.1	810.3	982.1	963.8	18.27	53.758		
5,000.0	4,982.6	4,942.3	4,861.9	9.8	17.0	89.76	204.1	825.9	995.2	976.6	18.63	53.425		
5,100.0	5,082.6	5,061.9	4,980.8	10.0	17.3	89.57	207.5	839.1	1,006.4	987.4	18.99	52.998		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1G-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
5,200.0	5,182.6	5,182.0	5,100.4	10.1	17.6	89.42	210.3	850.1	1,015.5	996.1	19.35	52.480		
5,300.0	5,282.6	5,302.6	5,220.6	10.3	17.8	89.30	212.5	858.6	1,022.5	1,002.8	19.71	51.877		
5,400.0	5,382.6	5,423.5	5,341.4	10.4	18.0	89.22	214.1	864.6	1,027.6	1,007.5	20.07	51.193		
5,500.0	5,482.6	5,544.6	5,462.4	10.6	18.1	89.17	215.0	868.2	1,030.6	1,010.1	20.43	50.431		
5,600.0	5,582.6	5,664.8	5,582.6	10.7	18.3	89.15	215.3	869.4	1,031.5	1,010.7	20.80	49.599		
5,700.0	5,682.6	5,764.8	5,682.6	10.9	18.4	89.15	215.3	869.4	1,031.5	1,010.4	21.13	48.826		
5,800.0	5,782.6	5,864.8	5,782.6	11.1	18.5	89.15	215.3	869.4	1,031.5	1,010.0	21.46	48.074		
5,900.0	5,882.6	5,964.8	5,882.6	11.2	18.5	89.15	215.3	869.4	1,031.5	1,009.7	21.79	47.344		
6,000.0	5,982.6	6,064.8	5,982.6	11.4	18.6	89.15	215.3	869.4	1,031.5	1,009.4	22.12	46.635		
6,100.0	6,082.6	6,164.8	6,082.6	11.5	18.7	89.15	215.3	869.4	1,031.5	1,009.0	22.45	45.946		
6,200.0	6,182.6	6,264.8	6,182.6	11.7	18.8	89.15	215.3	869.4	1,031.5	1,008.7	22.78	45.275		
6,300.0	6,282.6	6,364.8	6,282.6	11.9	18.9	89.15	215.3	869.4	1,031.5	1,008.4	23.12	44.623		
6,400.0	6,382.6	6,464.8	6,382.6	12.0	19.1	89.15	215.3	869.4	1,031.5	1,008.0	23.45	43.989		
6,445.9	6,428.5	6,510.6	6,428.5	12.1	19.1	-91.37	215.3	869.4	1,031.5	1,007.9	23.63	43.655		
6,500.0	6,482.6	6,564.7	6,482.6	12.2	19.2	-91.38	215.3	869.4	1,031.5	1,007.7	23.80	43.334		
6,600.0	6,581.8	6,664.0	6,581.8	12.3	19.3	-91.98	215.3	869.4	1,031.8	1,007.8	24.02	42.952		
6,700.0	6,678.5	6,760.7	6,678.5	12.3	19.4	-93.23	215.3	869.4	1,033.0	1,008.9	24.15	42.775		
6,800.0	6,770.8	6,862.0	6,779.5	12.3	19.4	-94.86	209.3	869.5	1,035.6	1,011.4	24.21	42.775		
6,900.0	6,856.9	6,969.1	6,884.3	12.4	19.5	-96.45	187.5	869.8	1,039.6	1,015.3	24.27	42.836		
7,000.0	6,935.0	7,082.4	6,990.3	12.5	19.5	-97.96	147.8	870.5	1,044.6	1,020.2	24.40	42.807		
7,100.0	7,003.8	7,202.6	7,094.4	12.8	19.6	-99.35	88.1	871.6	1,050.5	1,025.7	24.71	42.510		
7,200.0	7,061.7	7,329.9	7,192.1	13.2	19.7	-100.59	6.7	873.0	1,056.7	1,031.4	25.30	41.762		
7,300.0	7,107.8	7,464.3	7,277.9	13.8	19.9	-101.59	-96.5	874.8	1,062.9	1,036.6	26.30	40.421		
7,400.0	7,141.1	7,605.2	7,345.6	14.6	20.4	-102.32	-219.8	877.0	1,068.6	1,040.9	27.76	38.501		
7,500.0	7,160.9	7,751.0	7,388.8	15.5	21.3	-102.68	-358.8	879.4	1,073.3	1,043.6	29.71	36.127		
7,600.0	7,167.0	7,897.8	7,403.0	16.6	22.4	-102.67	-504.6	881.9	1,076.6	1,044.5	32.09	33.546		
7,700.0	7,167.0	7,997.7	7,403.0	17.8	23.2	-102.64	-604.5	883.7	1,079.2	1,044.7	34.42	31.353		
7,800.0	7,167.0	8,097.7	7,403.0	19.1	24.2	-102.61	-704.5	885.4	1,081.7	1,044.8	36.92	29.301		
7,900.0	7,167.0	8,197.7	7,403.0	20.4	25.3	-102.58	-804.4	887.2	1,084.3	1,044.7	39.55	27.412		
8,000.0	7,167.0	8,297.6	7,403.0	21.8	26.4	-102.55	-904.4	888.9	1,086.8	1,044.5	42.31	25.689		
8,100.0	7,167.0	8,397.6	7,403.0	23.3	27.6	-102.52	-1,004.3	890.6	1,089.4	1,044.2	45.15	24.128		
8,200.0	7,167.0	8,497.6	7,403.0	24.8	28.9	-102.49	-1,104.3	892.4	1,091.9	1,043.9	48.07	22.714		
8,300.0	7,167.0	8,597.5	7,403.0	26.3	30.2	-102.46	-1,204.2	894.1	1,094.5	1,043.4	51.06	21.436		
8,400.0	7,167.0	8,697.5	7,403.0	27.9	31.6	-102.43	-1,304.2	895.9	1,097.0	1,042.9	54.10	20.279		
8,500.0	7,167.0	8,797.5	7,403.0	29.4	33.0	-102.40	-1,404.1	897.6	1,099.6	1,042.4	57.18	19.230		
8,600.0	7,167.0	8,897.4	7,403.0	31.0	34.4	-102.37	-1,504.1	899.4	1,102.2	1,041.9	60.30	18.277		
8,700.0	7,167.0	8,997.4	7,403.0	32.6	35.9	-102.34	-1,604.0	901.1	1,104.7	1,041.3	63.46	17.409		
8,800.0	7,167.0	9,097.4	7,403.0	34.3	37.3	-102.31	-1,704.0	902.9	1,107.3	1,040.6	66.64	16.616		
8,900.0	7,167.0	9,197.3	7,403.0	35.9	38.9	-102.28	-1,803.9	904.6	1,109.8	1,040.0	69.85	15.890		
9,000.0	7,167.0	9,297.3	7,403.0	37.6	40.4	-102.25	-1,903.9	906.4	1,112.4	1,039.3	73.08	15.223		
9,100.0	7,167.0	9,397.3	7,403.0	39.2	41.9	-102.23	-2,003.8	908.1	1,114.9	1,038.6	76.32	14.608		
9,200.0	7,167.0	9,497.2	7,403.0	40.9	43.5	-102.20	-2,103.8	909.8	1,117.5	1,037.9	79.59	14.041		
9,300.0	7,167.0	9,597.2	7,403.0	42.6	45.1	-102.17	-2,203.7	911.6	1,120.1	1,037.2	82.86	13.517		
9,400.0	7,167.0	9,697.2	7,403.0	44.2	46.6	-102.14	-2,303.7	913.3	1,122.6	1,036.5	86.16	13.030		
9,500.0	7,167.0	9,797.1	7,403.0	45.9	48.2	-102.11	-2,403.6	915.1	1,125.2	1,035.7	89.46	12.578		
9,600.0	7,167.0	9,897.8	7,403.0	47.6	49.9	-102.09	-2,504.3	916.8	1,127.7	1,034.9	92.80	12.153		
9,700.0	7,167.0	10,021.7	7,403.0	49.3	51.9	-102.08	-2,628.1	917.6	1,128.2	1,031.5	96.71	11.666		
9,800.0	7,167.0	10,144.4	7,403.0	51.0	53.8	-102.11	-2,750.9	915.7	1,125.5	1,025.1	100.42	11.208		
9,900.0	7,167.0	10,244.3	7,403.0	52.7	55.4	-102.15	-2,850.8	913.1	1,121.9	1,018.1	103.74	10.814		
10,000.0	7,167.0	10,344.3	7,403.0	54.4	57.1	-102.19	-2,950.7	910.6	1,118.2	1,011.1	107.06	10.445		
10,100.0	7,167.0	10,444.2	7,403.0	56.1	58.7	-102.23	-3,050.6	908.0	1,114.5	1,004.1	110.38	10.097		
10,200.0	7,167.0	10,544.1	7,403.0	57.8	60.3	-102.28	-3,150.5	905.5	1,110.9	997.1	113.71	9.769		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1G-34H - Hz - Plan #1													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
10,300.0	7,167.0	10,644.1	7,403.0	59.5	62.0	-102.32	-3,250.4	902.9	1,107.2	990.2	117.04	9.460	
10,400.0	7,167.0	10,744.0	7,403.0	61.2	63.6	-102.36	-3,350.3	900.4	1,103.5	983.2	120.38	9.167	
10,500.0	7,167.0	10,843.9	7,403.0	63.0	65.3	-102.40	-3,450.2	897.8	1,099.9	976.2	123.72	8.890	
10,600.0	7,167.0	10,943.9	7,403.0	64.7	67.0	-102.44	-3,550.1	895.3	1,096.2	969.2	127.06	8.628	
10,700.0	7,167.0	11,043.8	7,403.0	66.4	68.6	-102.48	-3,650.0	892.7	1,092.5	962.1	130.40	8.378	
10,800.0	7,167.0	11,143.7	7,403.0	68.1	70.3	-102.53	-3,749.9	890.2	1,088.9	955.1	133.75	8.141	
10,900.0	7,167.0	11,243.6	7,403.0	69.8	72.0	-102.57	-3,849.7	887.6	1,085.2	948.1	137.09	7.916	
11,000.0	7,167.0	11,343.6	7,403.0	71.6	73.7	-102.61	-3,949.6	885.1	1,081.6	941.1	140.44	7.701	
11,100.0	7,167.0	11,443.5	7,403.0	73.3	75.3	-102.66	-4,049.5	882.5	1,077.9	934.1	143.79	7.496	
11,200.0	7,167.0	11,543.4	7,403.0	75.0	77.0	-102.70	-4,149.4	880.0	1,074.3	927.1	147.14	7.301	
11,300.0	7,167.0	11,643.4	7,403.0	76.7	78.7	-102.74	-4,249.3	877.4	1,070.6	920.1	150.49	7.114	
11,400.0	7,167.0	11,743.3	7,403.0	78.5	80.4	-102.79	-4,349.2	874.9	1,066.9	913.1	153.84	6.935	
11,500.0	7,167.0	11,843.2	7,403.0	80.2	82.1	-102.83	-4,449.1	872.3	1,063.3	906.1	157.19	6.764	
11,600.0	7,167.0	11,943.2	7,403.0	81.9	83.8	-102.88	-4,549.0	869.8	1,059.6	899.1	160.55	6.600	
11,667.2	7,167.0	11,973.1	7,403.0	83.1	84.3	-102.89	-4,579.0	869.0	1,057.8	895.6	162.18	6.522 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1H-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	41.9	41.9					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	41.9	41.9	41.6	0.30	137.994		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	41.9	41.9	41.3	0.65	64.201	CC, ES	
300.0	300.0	299.3	299.3	0.5	0.5	89.83	0.1	42.8	42.8	41.8	1.00	42.713		
400.0	400.0	398.5	398.5	0.7	0.7	89.25	0.6	45.3	45.3	44.0	1.35	33.527		
500.0	500.0	497.6	497.5	0.8	0.9	88.41	1.4	49.5	49.6	47.9	1.71	29.062		
600.0	600.0	596.5	596.2	1.0	1.1	127.11	2.5	55.4	56.1	54.1	2.04	27.447		
700.0	700.0	695.0	694.4	1.2	1.3	127.84	3.9	62.9	65.4	63.0	2.39	27.316	SF	
800.0	799.9	793.1	792.0	1.4	1.5	129.13	5.6	72.1	77.4	74.7	2.75	28.197		
900.0	899.7	890.5	888.8	1.6	1.7	130.64	7.5	82.8	92.3	89.1	3.10	29.733		
1,000.0	999.4	987.2	984.8	1.8	2.0	132.15	9.8	95.0	109.9	106.5	3.47	31.705		
1,100.0	1,098.9	1,083.1	1,079.6	2.0	2.3	133.55	12.3	108.7	130.4	126.6	3.84	33.965		
1,200.0	1,198.3	1,178.0	1,173.3	2.2	2.6	134.80	15.1	123.8	153.8	149.6	4.22	36.407		
1,300.0	1,297.4	1,271.9	1,265.6	2.5	2.9	135.88	18.2	140.2	179.9	175.3	4.62	38.958		
1,400.0	1,396.3	1,364.6	1,356.6	2.8	3.3	136.82	21.5	157.9	208.8	203.8	5.02	41.562		
1,500.0	1,494.9	1,456.0	1,446.0	3.1	3.6	137.61	25.0	176.7	240.4	235.0	5.44	44.177		
1,600.0	1,593.4	1,546.3	1,533.9	3.4	4.0	138.40	28.7	196.7	274.1	268.3	5.88	46.659		
1,700.0	1,691.9	1,635.7	1,620.7	3.7	4.4	138.91	32.6	217.8	309.3	302.9	6.31	48.978		
1,800.0	1,790.4	1,725.4	1,707.5	4.1	4.8	139.23	36.7	240.3	345.7	338.9	6.76	51.137		
1,900.0	1,888.9	1,818.4	1,797.3	4.4	5.3	139.48	41.1	264.0	382.4	375.2	7.22	52.997		
2,000.0	1,987.3	1,911.4	1,887.1	4.7	5.7	139.74	45.5	287.7	419.2	411.5	7.68	54.590		
2,100.0	2,086.0	2,004.7	1,977.3	5.0	6.2	140.05	49.9	311.4	455.1	447.0	8.15	55.873		
2,200.0	2,185.0	2,098.5	2,067.9	5.3	6.6	140.21	54.3	335.3	489.8	481.2	8.60	56.925		
2,300.0	2,284.2	2,192.7	2,158.9	5.6	7.1	140.23	58.8	359.3	523.2	514.1	9.05	57.794		
2,400.0	2,383.6	2,287.4	2,250.3	5.8	7.6	140.15	63.3	383.4	555.3	545.8	9.49	58.515		
2,500.0	2,483.1	2,382.4	2,342.1	6.1	8.0	139.97	67.7	407.5	586.2	576.3	9.92	59.119		
2,600.0	2,582.8	2,477.8	2,434.2	6.3	8.5	139.72	72.2	431.8	615.9	605.5	10.33	59.630		
2,700.0	2,682.7	2,573.5	2,526.7	6.5	9.0	139.39	76.7	456.2	644.3	633.6	10.73	60.066		
2,800.0	2,782.6	2,669.6	2,619.5	6.6	9.4	139.00	81.3	480.6	671.5	660.4	11.11	60.444		
2,900.0	2,882.6	2,765.9	2,712.5	6.8	9.9	138.55	85.8	505.1	697.5	686.0	11.48	60.777		
3,000.0	2,982.6	2,862.4	2,805.7	6.9	10.4	99.01	90.4	529.7	722.3	710.5	11.80	61.204		
3,100.0	3,082.6	2,959.0	2,899.0	7.0	10.8	98.35	94.9	554.3	746.9	734.7	12.14	61.536		
3,200.0	3,182.6	3,055.6	2,992.3	7.2	11.3	97.73	99.5	578.8	771.5	759.0	12.47	61.869		
3,300.0	3,282.6	3,152.2	3,085.6	7.3	11.8	97.15	104.0	603.4	796.2	783.4	12.80	62.199		
3,400.0	3,382.6	3,248.7	3,178.9	7.4	12.3	96.60	108.6	628.0	821.0	807.8	13.13	62.525		
3,500.0	3,482.6	3,345.3	3,272.2	7.6	12.8	96.09	113.1	652.6	845.8	832.3	13.46	62.846		
3,600.0	3,582.6	3,441.9	3,365.5	7.7	13.2	95.61	117.7	677.2	870.7	856.9	13.79	63.161		
3,700.0	3,682.6	3,538.5	3,458.8	7.9	13.7	95.15	122.3	701.7	895.7	881.5	14.11	63.469		
3,800.0	3,782.6	3,635.1	3,552.1	8.0	14.2	94.71	126.8	726.3	920.7	906.2	14.44	63.770		
3,900.0	3,882.6	3,731.7	3,645.4	8.1	14.7	94.30	131.4	750.9	945.7	931.0	14.76	64.063		
4,000.0	3,982.6	3,828.3	3,738.7	8.3	15.1	93.91	135.9	775.5	970.8	955.7	15.09	64.349		
4,100.0	4,082.6	3,924.9	3,832.0	8.4	15.6	93.54	140.5	800.1	996.0	980.5	15.41	64.626		
4,200.0	4,182.6	4,021.5	3,925.3	8.6	16.1	93.19	145.0	824.7	1,021.1	1,005.4	15.74	64.895		
4,300.0	4,282.6	4,118.1	4,018.6	8.7	16.6	92.86	149.6	849.2	1,046.3	1,030.3	16.06	65.156		
4,400.0	4,382.6	4,214.7	4,111.9	8.9	17.1	92.54	154.2	873.8	1,071.6	1,055.2	16.38	65.409		
4,500.0	4,482.6	4,311.3	4,205.2	9.0	17.5	92.23	158.7	898.4	1,096.9	1,080.2	16.71	65.654		
4,600.0	4,582.6	4,407.9	4,298.5	9.2	18.0	91.94	163.3	923.0	1,122.2	1,105.1	17.03	65.892		
4,700.0	4,682.6	4,504.4	4,391.8	9.3	18.5	91.66	167.8	947.6	1,147.5	1,130.1	17.35	66.121		
4,800.0	4,782.6	4,601.0	4,485.1	9.5	19.0	91.40	172.4	972.1	1,172.8	1,155.2	17.68	66.344		
4,900.0	4,882.6	4,697.6	4,578.4	9.7	19.5	91.14	176.9	996.7	1,198.2	1,180.2	18.00	66.559		
5,000.0	4,982.6	4,794.2	4,671.7	9.8	19.9	90.90	181.5	1,021.3	1,223.6	1,205.3	18.33	66.768		
5,100.0	5,082.6	4,890.8	4,765.0	10.0	20.4	90.67	186.0	1,045.9	1,249.0	1,230.4	18.65	66.970		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 31-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							
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	-105.00	-224.4	-837.0	866.6					
100.0	100.0	95.5	95.5	0.2	0.1	-105.00	-224.3	-837.4	866.9	866.7	0.24	3,684.976		
200.0	200.0	184.6	184.6	0.3	0.2	-104.96	-224.1	-838.6	868.1	867.7	0.49	1,780.468		
300.0	300.0	282.7	282.7	0.5	0.2	-104.90	-223.7	-840.8	870.2	869.5	0.75	1,163.506		
400.0	400.0	389.5	389.5	0.7	0.3	-104.81	-222.9	-843.0	872.0	871.0	1.02	858.677		
500.0	500.0	493.4	493.3	0.8	0.4	-104.67	-221.2	-844.6	873.1	871.8	1.28	681.756		
600.0	600.0	593.4	593.3	1.0	0.5	-65.60	-219.7	-845.9	873.6	872.1	1.55	564.754		
700.0	700.0	694.6	694.5	1.2	0.6	-65.67	-218.4	-847.1	873.3	871.5	1.81	481.663		
800.0	799.9	806.1	805.9	1.4	0.7	-65.89	-217.2	-847.4	871.6	869.5	2.09	416.538		
900.0	899.7	900.0	899.9	1.6	0.8	-66.18	-216.0	-847.6	868.9	866.6	2.36	367.448		
1,000.0	999.4	1,000.0	999.9	1.8	0.9	-66.62	-215.1	-847.7	865.7	863.0	2.65	326.479		
1,100.0	1,098.9	1,094.6	1,094.5	2.0	1.0	-67.17	-214.5	-848.0	862.0	859.1	2.95	292.369		
1,200.0	1,198.3	1,191.5	1,191.4	2.2	1.0	-67.81	-213.8	-849.0	858.5	855.2	3.26	263.034		
1,300.0	1,297.4	1,296.0	1,295.8	2.5	1.1	-68.63	-213.0	-850.0	854.2	850.6	3.61	236.904		
1,400.0	1,396.3	1,389.9	1,389.7	2.8	1.2	-69.48	-212.2	-850.8	849.5	845.5	3.96	214.455		
1,500.0	1,494.9	1,491.6	1,491.4	3.1	1.3	-70.54	-211.6	-851.8	844.5	840.2	4.35	194.234		
1,600.0	1,593.4	1,591.2	1,591.0	3.4	1.4	-71.61	-211.2	-852.5	839.3	834.6	4.74	176.896		
1,700.0	1,691.9	1,689.8	1,689.6	3.7	1.5	-72.66	-210.4	-853.2	834.3	829.2	5.15	162.049		
1,800.0	1,790.4	1,788.2	1,788.0	4.1	1.6	-73.72	-209.6	-853.9	829.6	824.1	5.56	149.228		
1,900.0	1,888.9	1,887.6	1,887.4	4.4	1.7	-74.79	-208.6	-854.7	825.2	819.2	5.98	138.062		
2,000.0	1,987.3	1,983.4	1,983.2	4.7	1.7	-75.82	-207.7	-855.6	821.2	814.8	6.40	128.408		
2,100.0	2,086.0	2,076.9	2,076.7	5.0	1.8	-76.73	-207.0	-856.9	818.3	811.5	6.79	120.494		
2,200.0	2,185.0	2,171.7	2,171.5	5.3	1.9	-77.55	-206.4	-858.8	816.6	809.4	7.17	113.912		
2,300.0	2,284.2	2,269.5	2,269.3	5.6	2.0	-78.31	-206.1	-861.0	815.8	808.3	7.53	108.380		
2,400.0	2,383.6	2,371.1	2,370.8	5.8	2.1	-79.08	-207.0	-862.7	815.5	807.7	7.87	103.646		
2,500.0	2,483.1	2,472.6	2,472.3	6.1	2.2	-79.73	-207.9	-864.0	815.4	807.2	8.19	99.580		
2,600.0	2,582.8	2,581.6	2,581.3	6.3	2.3	-80.29	-208.4	-865.0	815.1	806.6	8.49	95.978		
2,700.0	2,682.7	2,684.2	2,683.8	6.5	2.4	-80.73	-208.9	-864.8	814.2	805.4	8.77	92.842		
2,795.4	2,778.0	2,775.2	2,774.9	6.6	2.4	-81.01	-209.3	-864.7	813.7	804.7	9.01	90.338		
2,800.0	2,782.6	2,779.6	2,779.3	6.6	2.4	-81.02	-209.4	-864.7	813.7	804.7	9.02	90.224		
2,900.0	2,882.6	2,878.0	2,877.7	6.8	2.5	-81.25	-210.5	-864.8	814.1	804.8	9.25	87.994		
3,000.0	2,982.6	2,980.7	2,980.3	6.9	2.6	-120.38	-211.9	-864.7	814.6	805.1	9.48	85.962		
3,100.0	3,082.6	3,081.2	3,080.9	7.0	2.7	-120.48	-213.3	-864.3	814.9	805.2	9.70	84.039		
3,200.0	3,182.6	3,178.6	3,178.2	7.2	2.8	-120.57	-214.7	-864.0	815.4	805.5	9.92	82.224		
3,300.0	3,282.6	3,277.3	3,277.0	7.3	2.9	-120.70	-216.6	-863.7	816.1	806.0	10.14	80.493		
3,400.0	3,382.6	3,369.6	3,369.2	7.4	3.0	-120.84	-218.9	-863.7	817.3	807.0	10.36	78.908		
3,500.0	3,482.6	3,468.4	3,468.0	7.6	3.0	-121.00	-221.8	-864.2	819.3	808.8	10.58	77.413		
3,600.0	3,582.6	3,571.3	3,570.8	7.7	3.1	-121.18	-224.9	-864.4	821.1	810.2	10.82	75.915		
3,700.0	3,682.6	3,669.2	3,668.7	7.9	3.2	-121.36	-227.9	-864.4	822.7	811.6	11.04	74.491		
3,800.0	3,782.6	3,767.2	3,766.6	8.0	3.3	-121.51	-230.8	-864.9	824.6	813.4	11.27	73.148		
3,900.0	3,882.6	3,868.1	3,867.5	8.1	3.4	-121.66	-233.8	-865.5	826.7	815.2	11.51	71.840		
4,000.0	3,982.6	3,965.9	3,965.2	8.3	3.5	-121.82	-236.8	-865.9	828.7	816.9	11.74	70.590		
4,100.0	4,082.6	4,063.4	4,062.7	8.4	3.6	-121.95	-239.5	-867.0	831.1	819.1	11.97	69.418		
4,200.0	4,182.6	4,159.5	4,158.7	8.6	3.6	-122.07	-242.4	-868.2	833.8	821.6	12.20	68.315		
4,300.0	4,282.6	4,260.2	4,259.3	8.7	3.7	-122.18	-245.4	-870.0	836.9	824.4	12.44	67.259		
4,400.0	4,382.6	4,365.4	4,364.5	8.9	3.8	-122.27	-248.0	-871.6	839.4	826.8	12.68	66.177		
4,500.0	4,482.6	4,463.5	4,462.5	9.0	3.9	-122.36	-250.3	-872.7	841.7	828.8	12.92	65.137		
4,600.0	4,582.6	4,563.1	4,562.2	9.2	4.0	-122.44	-252.7	-874.4	844.3	831.2	13.16	64.153		
4,700.0	4,682.6	4,663.7	4,662.7	9.3	4.1	-122.54	-255.2	-875.7	846.8	833.4	13.40	63.182		
4,800.0	4,782.6	4,765.4	4,764.3	9.5	4.2	-122.61	-257.4	-877.2	849.2	835.5	13.64	62.236		
4,900.0	4,882.6	4,875.7	4,874.6	9.7	4.3	-122.65	-259.0	-878.5	851.0	837.1	13.89	61.244		
5,000.0	4,982.6	4,982.5	4,981.5	9.8	4.4	-122.62	-259.0	-879.2	851.5	837.4	14.14	60.210		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 31-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)				Between Centres (ft)	Between Ellipses (ft)	
5,100.0	5,082.6	5,083.3	5,082.2	10.0	4.5	-122.56	-258.2	-879.9	851.7	837.3	14.39	59.204		
5,200.0	5,182.6	5,184.1	5,183.0	10.1	4.5	-122.47	-257.2	-880.7	851.8	837.2	14.63	58.227		
5,300.0	5,282.6	5,286.0	5,284.9	10.3	4.6	-122.37	-255.9	-881.5	851.8	836.9	14.87	57.264		
5,400.0	5,382.6	5,391.1	5,390.0	10.4	4.7	-122.28	-254.6	-881.8	851.3	836.2	15.12	56.294		
5,500.0	5,482.6	5,491.2	5,490.1	10.6	4.8	-122.22	-253.4	-881.6	850.5	835.2	15.37	55.346		
5,600.0	5,582.6	5,590.9	5,589.8	10.7	4.9	-122.17	-252.3	-881.3	849.8	834.2	15.61	54.429		
5,700.0	5,682.6	5,697.4	5,696.3	10.9	5.0	-122.13	-251.3	-880.7	848.7	832.8	15.86	53.497		
5,800.0	5,782.6	5,791.3	5,790.2	11.1	5.1	-122.11	-250.5	-879.9	847.6	831.4	16.11	52.624		
5,900.0	5,882.6	5,893.6	5,892.5	11.2	5.2	-122.07	-249.5	-879.4	846.7	830.3	16.35	51.770		
6,000.0	5,982.6	5,995.1	5,994.0	11.4	5.2	-122.01	-248.1	-878.9	845.5	828.9	16.60	50.926		
6,100.0	6,082.6	6,090.9	6,089.8	11.5	5.3	-121.98	-247.2	-878.4	844.5	827.7	16.85	50.129		
6,200.0	6,182.6	6,194.6	6,193.5	11.7	5.4	-121.96	-246.4	-877.7	843.6	826.5	17.10	49.339		
6,300.0	6,282.6	6,300.4	6,299.3	11.9	5.5	-121.94	-245.3	-876.5	842.1	824.8	17.35	48.530		
6,400.0	6,382.6	6,400.0	6,398.8	12.0	5.6	-121.93	-244.3	-875.0	840.3	822.7	17.60	47.741		
6,500.0	6,482.6	6,496.9	6,495.7	12.2	5.7	57.66	-243.6	-873.6	838.3	820.5	17.84	46.999		
6,600.0	6,581.8	6,605.6	6,604.4	12.3	5.8	58.86	-243.3	-871.2	830.2	812.2	17.98	46.166		
6,700.0	6,678.5	6,700.0	6,698.8	12.3	5.9	61.31	-243.0	-868.6	814.8	796.7	18.03	45.192		
6,800.0	6,770.8	6,788.4	6,787.2	12.3	5.9	64.98	-242.5	-866.6	794.0	776.0	18.03	44.034		
6,900.0	6,856.9	6,876.0	6,874.7	12.4	6.0	69.95	-241.5	-865.1	769.7	751.6	18.07	42.599		
7,000.0	6,935.0	6,956.8	6,955.5	12.5	6.1	75.82	-239.6	-863.8	744.0	725.8	18.22	40.836		
7,100.0	7,003.8	7,025.6	7,024.2	12.8	6.1	81.75	-237.6	-862.4	720.4	701.8	18.54	38.859		
7,200.0	7,061.7	7,079.9	7,078.5	13.2	6.2	86.84	-235.7	-861.4	702.8	683.8	19.03	36.929		
7,300.0	7,107.8	7,123.0	7,121.6	13.8	6.2	90.67	-234.0	-860.7	695.0	675.3	19.69	35.294		
7,315.1	7,113.6	7,128.6	7,127.1	13.9	6.2	91.11	-233.8	-860.6	694.9	675.0	19.82	35.063 CC, ES		
7,400.0	7,141.1	7,154.0	7,152.5	14.6	6.2	92.73	-232.8	-860.1	699.7	679.2	20.51	34.114		
7,500.0	7,160.9	7,170.9	7,169.4	15.5	6.3	92.59	-232.1	-859.7	718.2	696.7	21.48	33.428		
7,600.0	7,167.0	7,173.3	7,171.8	16.6	6.3	90.32	-232.1	-859.7	750.0	727.4	22.60	33.189 SF		
7,700.0	7,167.0	7,169.3	7,167.8	17.8	6.3	89.99	-232.2	-859.7	793.4	769.6	23.81	33.324		
7,800.0	7,167.0	7,165.3	7,163.8	19.1	6.3	89.66	-232.4	-859.8	846.4	821.3	25.10	33.716		
7,900.0	7,167.0	7,161.3	7,159.8	20.4	6.3	89.33	-232.5	-859.9	907.4	880.9	26.47	34.281		
8,000.0	7,167.0	7,157.2	7,155.7	21.8	6.2	88.99	-232.7	-860.0	974.8	946.9	27.89	34.954		
8,100.0	7,167.0	7,153.1	7,151.7	23.3	6.2	88.65	-232.8	-860.1	1,047.4	1,018.0	29.35	35.686		
8,200.0	7,167.0	7,149.0	7,147.5	24.8	6.2	88.32	-233.0	-860.2	1,124.2	1,093.3	30.85	36.441		
8,300.0	7,167.0	7,144.9	7,143.4	26.3	6.2	87.97	-233.1	-860.2	1,204.4	1,172.0	32.38	37.197		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 32-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)				
7,700.0	7,167.0	7,173.1	7,170.0	17.8	6.3	89.37	-1,775.3	-447.3	1,185.5	1,161.7	23.86	49.688		
7,800.0	7,167.0	7,173.1	7,170.0	19.1	6.3	89.36	-1,775.3	-447.3	1,088.4	1,063.2	25.16	43.262		
7,900.0	7,167.0	7,173.0	7,169.9	20.4	6.3	89.34	-1,775.3	-447.3	991.7	965.2	26.52	37.390		
8,000.0	7,167.0	7,172.9	7,169.8	21.8	6.3	89.32	-1,775.3	-447.3	895.9	867.9	27.95	32.056		
8,100.0	7,167.0	7,172.8	7,169.7	23.3	6.3	89.30	-1,775.3	-447.3	801.0	771.6	29.42	27.231		
8,200.0	7,167.0	7,172.7	7,169.6	24.8	6.3	89.28	-1,775.3	-447.3	707.6	676.6	30.92	22.883		
8,300.0	7,167.0	7,172.6	7,169.5	26.3	6.3	89.26	-1,775.3	-447.3	616.2	583.7	32.46	18.984		
8,400.0	7,167.0	7,172.5	7,169.4	27.9	6.3	89.24	-1,775.3	-447.3	527.9	493.9	34.02	15.518		
8,500.0	7,167.0	7,172.4	7,169.3	29.4	6.3	89.22	-1,775.3	-447.3	444.7	409.1	35.60	12.490		
8,600.0	7,167.0	7,172.3	7,169.2	31.0	6.3	89.19	-1,775.3	-447.3	369.9	332.6	37.21	9.941		
8,700.0	7,167.0	7,172.2	7,169.1	32.6	6.3	89.17	-1,775.3	-447.3	309.6	270.7	38.82	7.973		
8,800.0	7,167.0	7,172.1	7,169.0	34.3	6.3	89.15	-1,775.3	-447.3	273.6	233.2	40.46	6.763		
8,854.8	7,167.0	7,172.0	7,168.9	35.2	6.3	89.14	-1,775.3	-447.3	268.1	226.7	41.36	6.482 CC, ES		
8,900.0	7,167.0	7,172.0	7,168.9	35.9	6.3	89.13	-1,775.3	-447.3	271.8	229.7	42.10	6.457 SF		
9,000.0	7,167.0	7,171.9	7,168.8	37.6	6.3	89.10	-1,775.3	-447.3	304.9	261.1	43.75	6.968		
9,100.0	7,167.0	7,171.8	7,168.7	39.2	6.3	89.08	-1,775.3	-447.3	363.3	317.9	45.41	7.999		
9,200.0	7,167.0	7,171.6	7,168.5	40.9	6.3	89.05	-1,775.3	-447.3	437.0	390.0	47.08	9.282		
9,300.0	7,167.0	7,171.5	7,168.4	42.6	6.3	89.03	-1,775.3	-447.3	519.7	470.9	48.76	10.658		
9,400.0	7,167.0	7,171.4	7,168.3	44.2	6.3	89.00	-1,775.3	-447.3	607.5	557.1	50.44	12.044		
9,500.0	7,167.0	7,171.3	7,168.2	45.9	6.3	88.97	-1,775.3	-447.3	698.7	646.5	52.13	13.403		
9,600.0	7,167.0	7,171.1	7,168.0	47.6	6.3	88.94	-1,775.3	-447.3	791.9	738.1	53.82	14.715		
9,700.0	7,167.0	7,171.0	7,167.9	49.3	6.3	88.85	-1,775.3	-447.3	887.0	831.5	55.46	15.993		
9,800.0	7,167.0	7,170.8	7,167.7	51.0	6.3	88.81	-1,775.3	-447.3	983.3	926.1	57.15	17.205		
9,900.0	7,167.0	7,170.6	7,167.5	52.7	6.3	88.77	-1,775.3	-447.3	1,080.2	1,021.4	58.85	18.355		
10,000.0	7,167.0	7,170.5	7,167.4	54.4	6.3	88.73	-1,775.3	-447.3	1,177.7	1,117.2	60.56	19.447		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 33-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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)				
9,000.0	7,167.0	7,202.7	7,199.7	37.6	6.4	92.69	-3,100.8	-569.0	1,240.5	1,196.7	43.77	28.340		
9,100.0	7,167.0	7,203.1	7,200.0	39.2	6.4	92.74	-3,100.8	-569.0	1,145.7	1,100.3	45.43	25.217		
9,200.0	7,167.0	7,203.4	7,200.4	40.9	6.4	92.78	-3,100.8	-569.0	1,051.8	1,004.7	47.10	22.332		
9,300.0	7,167.0	7,203.7	7,200.7	42.6	6.4	92.83	-3,100.8	-569.0	959.2	910.4	48.77	19.667		
9,400.0	7,167.0	7,204.0	7,201.0	44.2	6.4	92.88	-3,100.8	-569.0	868.2	817.8	50.45	17.209		
9,500.0	7,167.0	7,204.3	7,201.3	45.9	6.4	92.93	-3,100.8	-568.9	779.4	727.3	52.14	14.950		
9,600.0	7,167.0	7,204.6	7,201.6	47.6	6.4	92.97	-3,100.8	-568.9	693.7	639.9	53.82	12.889		
9,700.0	7,167.0	7,205.0	7,202.0	49.3	6.4	92.95	-3,100.8	-568.9	613.0	557.5	55.46	11.052		
9,800.0	7,167.0	7,205.4	7,202.4	51.0	6.4	93.01	-3,100.8	-568.9	539.5	482.4	57.15	9.440		
9,900.0	7,167.0	7,205.8	7,202.8	52.7	6.4	93.07	-3,100.8	-568.8	475.8	417.0	58.85	8.085		
10,000.0	7,167.0	7,206.3	7,203.2	54.4	6.4	93.13	-3,100.8	-568.8	426.3	365.7	60.56	7.040		
10,100.0	7,167.0	7,206.7	7,203.7	56.1	6.4	93.19	-3,100.8	-568.8	396.3	334.0	62.26	6.365		
10,173.4	7,167.0	7,207.0	7,204.0	57.4	6.4	93.24	-3,100.8	-568.8	389.4	325.9	63.51	6.132 CC, ES		
10,200.0	7,167.0	7,207.1	7,204.1	57.8	6.4	93.25	-3,100.8	-568.8	390.4	326.4	63.97	6.102 SF		
10,300.0	7,167.0	7,207.5	7,204.5	59.5	6.4	93.31	-3,100.8	-568.8	409.5	343.8	65.68	6.235		
10,400.0	7,167.0	7,207.9	7,204.9	61.2	6.4	93.37	-3,100.8	-568.7	450.6	383.2	67.39	6.686		
10,500.0	7,167.0	7,208.3	7,205.3	63.0	6.4	93.43	-3,100.8	-568.7	508.3	439.2	69.10	7.355		
10,600.0	7,167.0	7,208.7	7,205.7	64.7	6.4	93.49	-3,100.8	-568.7	577.6	506.8	70.82	8.156		
10,700.0	7,167.0	7,209.1	7,206.1	66.4	6.4	93.55	-3,100.8	-568.7	655.0	582.4	72.54	9.030		
10,800.0	7,167.0	7,209.5	7,206.5	68.1	6.4	93.61	-3,100.8	-568.6	737.8	663.5	74.25	9.936		
10,900.0	7,167.0	7,209.9	7,206.9	69.8	6.4	93.67	-3,100.8	-568.6	824.4	748.4	75.97	10.851		
11,000.0	7,167.0	7,210.3	7,207.3	71.6	6.4	93.73	-3,100.8	-568.6	913.8	836.1	77.69	11.761		
11,100.0	7,167.0	7,210.7	7,207.7	73.3	6.4	93.78	-3,100.8	-568.6	1,005.1	925.7	79.41	12.657		
11,200.0	7,167.0	7,211.1	7,208.1	75.0	6.4	93.84	-3,100.9	-568.6	1,098.0	1,016.9	81.14	13.533		
11,300.0	7,167.0	7,211.5	7,208.5	76.7	6.4	93.90	-3,100.9	-568.5	1,192.0	1,109.2	82.86	14.386		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 3-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,900.0	7,167.0	7,200.3	7,197.6	52.7	6.3	-89.73	-3,932.4	340.1	1,226.8	1,167.9	58.89	20.834		
10,000.0	7,167.0	7,200.5	7,197.8	54.4	6.3	-89.75	-3,932.4	340.1	1,136.6	1,076.0	60.59	18.758		
10,100.0	7,167.0	7,200.7	7,197.9	56.1	6.3	-89.77	-3,932.4	340.1	1,048.2	985.9	62.30	16.824		
10,200.0	7,167.0	7,200.8	7,198.1	57.8	6.3	-89.79	-3,932.4	340.1	962.1	898.1	64.02	15.029		
10,300.0	7,167.0	7,201.0	7,198.3	59.5	6.3	-89.81	-3,932.4	340.1	878.9	813.2	65.73	13.371		
10,400.0	7,167.0	7,201.2	7,198.5	61.2	6.3	-89.83	-3,932.4	340.1	799.6	732.1	67.45	11.854		
10,500.0	7,167.0	7,201.4	7,198.6	63.0	6.3	-89.85	-3,932.4	340.1	725.4	656.2	69.17	10.487		
10,600.0	7,167.0	7,201.6	7,198.8	64.7	6.3	-89.87	-3,932.4	340.1	658.0	587.1	70.89	9.282		
10,700.0	7,167.0	7,201.7	7,199.0	66.4	6.3	-89.89	-3,932.4	340.1	599.9	527.3	72.62	8.261		
10,800.0	7,167.0	7,201.9	7,199.2	68.1	6.3	-89.91	-3,932.4	340.1	553.8	479.5	74.34	7.449		
10,900.0	7,167.0	7,202.1	7,199.4	69.8	6.3	-89.93	-3,932.4	340.1	523.0	446.9	76.07	6.875		
11,000.0	7,167.0	7,202.3	7,199.5	71.6	6.3	-89.95	-3,932.4	340.1	510.3	432.5	77.80	6.559		
11,015.8	7,167.0	7,202.3	7,199.6	71.8	6.3	-89.95	-3,932.4	340.1	510.0	432.0	78.07	6.533 CC, ES		
11,100.0	7,167.0	7,202.4	7,199.7	73.3	6.3	-89.97	-3,932.4	340.1	516.9	437.4	79.52	6.500 SF		
11,200.0	7,167.0	7,202.6	7,199.9	75.0	6.3	-89.99	-3,932.4	340.1	542.3	461.0	81.25	6.674		
11,300.0	7,167.0	7,202.8	7,200.1	76.7	6.3	-90.01	-3,932.4	340.1	583.9	500.9	82.99	7.036		
11,400.0	7,167.0	7,203.0	7,200.3	78.5	6.3	-90.03	-3,932.4	340.1	638.6	553.8	84.72	7.537		
11,500.0	7,167.0	7,203.2	7,200.4	80.2	6.3	-90.05	-3,932.4	340.1	703.3	616.8	86.45	8.135		
11,600.0	7,167.0	7,203.3	7,200.6	81.9	6.3	-90.07	-3,932.4	340.1	775.5	687.3	88.19	8.794		
11,667.2	7,167.0	7,203.5	7,200.7	83.1	6.3	-90.08	-3,932.4	340.1	827.4	738.0	89.35	9.260		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 34-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
10,200.0	7,167.0	7,195.5	7,192.2	57.8	6.3	90.47	-4,342.5	-428.2	1,244.7	1,180.8	63.98	19.455		
10,300.0	7,167.0	7,195.6	7,192.2	59.5	6.3	90.49	-4,342.5	-428.2	1,147.2	1,081.5	65.69	17.463		
10,400.0	7,167.0	7,195.7	7,192.3	61.2	6.3	90.51	-4,342.5	-428.2	1,050.1	982.7	67.41	15.578		
10,500.0	7,167.0	7,195.8	7,192.4	63.0	6.3	90.52	-4,342.5	-428.2	953.6	884.5	69.13	13.795		
10,600.0	7,167.0	7,195.9	7,192.5	64.7	6.3	90.54	-4,342.5	-428.2	858.0	787.1	70.85	12.109		
10,700.0	7,167.0	7,195.9	7,192.6	66.4	6.3	90.56	-4,342.5	-428.2	763.4	690.8	72.58	10.519		
10,800.0	7,167.0	7,196.0	7,192.6	68.1	6.3	90.58	-4,342.5	-428.2	670.4	596.1	74.30	9.023		
10,900.0	7,167.0	7,196.1	7,192.7	69.8	6.3	90.59	-4,342.5	-428.2	579.8	503.7	76.03	7.626		
11,000.0	7,167.0	7,196.2	7,192.8	71.6	6.3	90.61	-4,342.5	-428.2	492.8	415.0	77.75	6.337		
11,100.0	7,167.0	7,196.2	7,192.9	73.3	6.3	90.62	-4,342.5	-428.2	411.7	332.2	79.48	5.180		
11,200.0	7,167.0	7,196.3	7,192.9	75.0	6.3	90.64	-4,342.5	-428.2	340.8	259.6	81.21	4.197		
11,300.0	7,167.0	7,196.4	7,193.0	76.7	6.3	90.66	-4,342.5	-428.2	287.8	204.9	82.94	3.470		
11,400.0	7,167.0	7,196.5	7,193.1	78.5	6.3	90.67	-4,342.5	-428.2	263.7	179.0	84.68	3.114		
11,416.6	7,167.0	7,196.5	7,193.1	78.8	6.3	90.67	-4,342.5	-428.2	263.2	178.2	84.96	3.097	CC, ES, SF	
11,500.0	7,167.0	7,196.5	7,193.1	80.2	6.3	90.69	-4,342.5	-428.2	276.1	189.6	86.41	3.195		
11,600.0	7,167.0	7,196.6	7,193.2	81.9	6.3	90.70	-4,342.5	-428.2	320.8	232.6	88.14	3.639		
11,667.2	7,167.0	7,196.6	7,193.3	83.1	6.3	90.71	-4,342.5	-428.2	363.4	274.1	89.31	4.069		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 41-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				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	106.05	-218.2	758.5	789.4					
100.0	100.0	81.9	81.9	0.2	0.1	106.03	-218.0	758.7	789.4	789.2	0.22	3,530.356		
200.0	200.0	183.2	183.2	0.3	0.2	105.98	-217.4	759.3	789.8	789.3	0.49	1,622.927		
300.0	300.0	284.6	284.6	0.5	0.2	105.94	-216.9	759.6	789.9	789.2	0.75	1,053.572		
400.0	400.0	385.5	385.5	0.7	0.3	105.90	-216.4	759.7	789.9	788.9	1.01	780.250		
500.0	500.0	486.6	486.6	0.8	0.4	105.87	-215.9	759.7	789.8	788.5	1.28	619.393		
515.7	515.7	502.4	502.4	0.9	0.4	144.86	-215.9	759.7	789.8	788.5	1.32	599.936 ES		
600.0	600.0	586.8	586.7	1.0	0.5	144.87	-215.5	759.6	790.3	788.8	1.54	514.057		
700.0	700.0	687.2	687.2	1.2	0.6	144.93	-214.9	759.5	792.2	790.4	1.80	439.973		
800.0	799.9	786.6	786.6	1.4	0.7	145.05	-214.3	759.4	795.5	793.4	2.06	385.315		
900.0	899.7	883.3	883.3	1.6	0.8	145.23	-213.8	759.5	800.5	798.2	2.33	343.689		
1,000.0	999.4	981.8	981.8	1.8	0.9	145.47	-213.4	759.9	807.2	804.6	2.60	310.589		
1,100.0	1,098.9	1,081.6	1,081.6	2.0	0.9	145.78	-213.1	760.3	815.5	812.6	2.87	283.653		
1,200.0	1,198.3	1,182.6	1,182.6	2.2	1.0	146.16	-212.9	760.6	825.0	821.9	3.16	261.344		
1,300.0	1,297.4	1,278.0	1,277.9	2.5	1.1	146.56	-212.9	760.9	836.2	832.8	3.44	243.045		
1,400.0	1,396.3	1,380.5	1,380.5	2.8	1.2	147.02	-212.5	761.5	849.0	845.3	3.74	227.212		
1,500.0	1,494.9	1,475.5	1,475.5	3.1	1.3	147.51	-212.4	761.7	863.2	859.1	4.03	214.037		
1,600.0	1,593.4	1,578.3	1,578.2	3.4	1.4	148.17	-212.9	762.0	878.4	874.0	4.34	202.537		
1,700.0	1,691.9	1,673.1	1,673.1	3.7	1.5	148.74	-213.1	762.0	893.3	888.7	4.63	192.756		
1,800.0	1,790.4	1,771.5	1,771.5	4.1	1.5	149.33	-213.6	762.3	908.8	903.9	4.93	184.180		
1,900.0	1,888.9	1,873.0	1,872.9	4.4	1.6	149.89	-213.6	762.6	924.1	918.8	5.24	176.483		
2,000.0	1,987.3	1,970.9	1,970.9	4.7	1.7	150.41	-213.4	762.8	939.2	933.7	5.53	169.719		
2,100.0	2,086.0	2,073.4	2,073.4	5.0	1.8	150.97	-213.2	762.9	953.4	947.6	5.83	163.621		
2,200.0	2,185.0	2,169.8	2,169.7	5.3	1.9	151.41	-212.9	762.8	965.9	959.8	6.11	158.117		
2,300.0	2,284.2	2,267.7	2,267.6	5.6	2.0	151.78	-212.4	763.2	977.2	970.9	6.39	153.041		
2,400.0	2,383.6	2,369.7	2,369.6	5.8	2.1	152.08	-211.6	763.6	987.0	980.3	6.66	148.193		
2,500.0	2,483.1	2,473.9	2,473.8	6.1	2.2	152.33	-210.6	763.7	994.8	987.9	6.93	143.532		
2,600.0	2,582.8	2,573.7	2,573.6	6.3	2.2	152.50	-209.5	763.4	1,000.9	993.7	7.19	139.133		
2,700.0	2,682.7	2,672.3	2,672.3	6.5	2.3	152.62	-208.5	763.3	1,005.5	998.0	7.45	134.955		
2,800.0	2,782.6	2,770.9	2,770.9	6.6	2.4	152.69	-207.5	763.4	1,008.6	1,000.9	7.70	130.943		
2,900.0	2,882.6	2,869.8	2,869.8	6.8	2.5	152.69	-206.3	763.6	1,010.4	1,002.4	7.95	127.062		
3,000.0	2,982.6	2,970.5	2,970.4	6.9	2.6	113.62	-204.9	763.9	1,010.6	1,002.4	8.21	123.040		
3,100.0	3,082.6	3,069.2	3,069.1	7.0	2.7	113.54	-203.5	764.3	1,010.4	1,001.9	8.47	119.360		
3,200.0	3,182.6	3,173.5	3,173.4	7.2	2.8	113.44	-201.8	764.7	1,010.1	1,001.4	8.72	115.809		
3,300.0	3,282.6	3,274.7	3,274.6	7.3	2.9	113.32	-199.6	764.9	1,009.4	1,000.4	8.98	112.432		
3,400.0	3,382.6	3,384.5	3,384.3	7.4	3.0	113.20	-197.1	764.7	1,008.4	999.1	9.24	109.111		
3,500.0	3,482.6	3,489.2	3,489.0	7.6	3.1	113.11	-194.8	763.5	1,006.4	996.9	9.50	105.933		
3,600.0	3,582.6	3,593.5	3,593.3	7.7	3.1	113.06	-193.0	761.6	1,004.1	994.3	9.76	102.902		
3,700.0	3,682.6	3,682.8	3,682.5	7.9	3.2	113.05	-192.1	759.9	1,002.0	992.0	10.00	100.188		
3,800.0	3,782.6	3,773.3	3,773.1	8.0	3.3	113.05	-191.8	759.1	1,001.0	990.8	10.25	97.702		
3,868.6	3,851.1	3,836.4	3,836.1	8.1	3.4	113.08	-192.3	758.7	1,000.8	990.4	10.41	96.109		
3,900.0	3,882.6	3,865.5	3,865.2	8.1	3.4	113.10	-192.6	758.6	1,000.9	990.4	10.49	95.406		
4,000.0	3,982.6	3,960.8	3,960.6	8.3	3.5	113.14	-193.4	758.8	1,001.4	990.6	10.74	93.246		
4,100.0	4,082.6	4,059.1	4,058.8	8.4	3.5	113.18	-194.4	759.2	1,002.2	991.2	10.99	91.187		
4,200.0	4,182.6	4,156.2	4,156.0	8.6	3.6	113.25	-196.0	759.6	1,003.2	991.9	11.24	89.245		
4,300.0	4,282.6	4,254.3	4,254.0	8.7	3.7	113.34	-197.9	760.1	1,004.5	993.0	11.49	87.411		
4,400.0	4,382.6	4,352.8	4,352.5	8.9	3.8	113.48	-200.6	760.5	1,005.9	994.1	11.74	85.664		
4,500.0	4,482.6	4,452.9	4,452.6	9.0	3.9	113.62	-203.6	760.9	1,007.4	995.4	11.99	83.992		
4,600.0	4,582.6	4,553.8	4,553.4	9.2	4.0	113.77	-206.5	761.2	1,008.8	996.6	12.25	82.367		
4,700.0	4,682.6	4,653.5	4,653.0	9.3	4.1	113.90	-209.3	761.5	1,010.2	997.7	12.50	80.814		
4,800.0	4,782.6	4,753.2	4,752.7	9.5	4.1	114.04	-212.1	761.8	1,011.7	998.9	12.75	79.320		
4,900.0	4,882.6	4,852.0	4,851.4	9.7	4.2	114.18	-214.9	762.2	1,013.2	1,000.2	13.01	77.893		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 41-34 (EXISTING) - EXISTING - GYRO													Offset Site Error: 0.0 ft	
Survey Program: 100-Gyro													Offset Well Error: 0.0 ft	
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,000.0	4,982.6	4,951.1	4,950.5	9.8	4.3	114.32	-217.8	762.7	1,014.9	1,001.6	13.26	76.526		
5,100.0	5,082.6	5,048.3	5,047.7	10.0	4.4	114.45	-220.6	763.3	1,016.6	1,003.1	13.51	75.224		
5,200.0	5,182.6	5,144.3	5,143.6	10.1	4.5	114.57	-223.5	764.3	1,018.8	1,005.0	13.77	74.005		
5,300.0	5,282.6	5,245.2	5,244.5	10.3	4.6	114.71	-226.7	765.5	1,021.2	1,007.2	14.02	72.822		
5,400.0	5,382.6	5,349.4	5,348.7	10.4	4.7	114.79	-228.9	766.8	1,023.2	1,009.0	14.28	71.637		
5,500.0	5,482.6	5,448.7	5,448.0	10.6	4.8	114.83	-230.3	768.1	1,025.0	1,010.5	14.54	70.494		
5,600.0	5,582.6	5,548.6	5,547.8	10.7	4.8	114.84	-231.3	769.9	1,027.1	1,012.3	14.80	69.403		
5,700.0	5,682.6	5,654.3	5,653.5	10.9	4.9	114.82	-231.7	771.6	1,028.7	1,013.7	15.06	68.299		
5,800.0	5,782.6	5,760.6	5,759.8	11.1	5.0	114.81	-232.0	772.7	1,029.8	1,014.5	15.33	67.193		
5,900.0	5,882.6	5,866.1	5,865.3	11.2	5.1	114.75	-231.3	773.6	1,030.3	1,014.7	15.59	66.086		
6,000.0	5,982.6	5,968.7	5,967.9	11.4	5.2	114.72	-230.8	773.9	1,030.3	1,014.5	15.85	65.000		
6,045.2	6,027.8	6,013.6	6,012.8	11.5	5.3	114.71	-230.5	774.0	1,030.3	1,014.3	15.97	64.523		
6,100.0	6,082.6	6,065.6	6,064.8	11.5	5.3	114.69	-230.3	774.2	1,030.4	1,014.3	16.11	63.969		
6,200.0	6,182.6	6,162.3	6,161.5	11.7	5.4	114.65	-229.9	774.9	1,030.8	1,014.5	16.36	62.995		
6,300.0	6,282.6	6,260.4	6,259.6	11.9	5.5	114.61	-229.6	775.8	1,031.5	1,014.9	16.62	62.060		
6,400.0	6,382.6	6,357.2	6,356.3	12.0	5.6	114.59	-229.5	776.7	1,032.4	1,015.6	16.88	61.171		
6,500.0	6,482.6	6,449.7	6,448.9	12.2	5.6	-65.93	-230.0	777.9	1,033.5	1,016.4	17.11	60.388		
6,600.0	6,581.8	6,538.3	6,537.4	12.3	5.7	-66.59	-231.1	779.6	1,031.2	1,013.9	17.31	59.583		
6,700.0	6,678.5	6,632.4	6,631.5	12.3	5.8	-68.29	-232.7	782.3	1,024.7	1,007.2	17.48	58.611		
6,800.0	6,770.8	6,743.5	6,742.5	12.3	5.9	-71.44	-233.7	784.6	1,012.9	995.2	17.68	57.280		
6,900.0	6,856.9	6,842.4	6,841.4	12.4	6.0	-75.46	-233.7	785.2	996.9	979.0	17.91	55.675		
7,000.0	6,935.0	6,925.4	6,924.5	12.5	6.0	-79.80	-233.0	785.2	979.9	961.7	18.18	53.895		
7,100.0	7,003.8	6,995.0	6,994.0	12.8	6.1	-84.04	-232.0	785.1	964.6	946.1	18.54	52.022		
7,200.0	7,061.7	7,050.8	7,049.8	13.2	6.2	-87.64	-230.9	785.0	954.1	935.0	19.03	50.147		
7,290.3	7,103.9	7,090.6	7,089.6	13.7	6.2	-90.05	-230.1	784.9	950.6	931.0	19.60	48.495		
7,300.0	7,107.8	7,094.3	7,093.3	13.8	6.2	-90.25	-230.0	784.9	950.7	931.0	19.66	48.346		
7,400.0	7,141.1	7,124.6	7,123.6	14.6	6.2	-91.53	-229.4	784.9	956.3	935.8	20.48	46.699		
7,500.0	7,160.9	7,141.8	7,140.8	15.5	6.2	-91.28	-229.0	784.9	972.0	950.5	21.46	45.285		
7,600.0	7,167.0	7,145.7	7,144.7	16.6	6.2	-89.56	-228.9	784.9	997.6	975.0	22.57	44.190		
7,700.0	7,167.0	7,143.8	7,142.8	17.8	6.2	-89.45	-229.0	784.9	1,032.3	1,008.5	23.79	43.400		
7,800.0	7,167.0	7,141.8	7,140.8	19.1	6.2	-89.33	-229.0	784.9	1,075.2	1,050.1	25.08	42.869		
7,900.0	7,167.0	7,139.9	7,138.9	20.4	6.2	-89.21	-229.1	784.9	1,125.4	1,098.9	26.45	42.554		
8,000.0	7,167.0	7,137.9	7,136.9	21.8	6.2	-89.09	-229.1	784.9	1,181.9	1,154.0	27.87	42.413		
8,100.0	7,167.0	7,135.9	7,134.9	23.3	6.2	-88.97	-229.1	784.9	1,243.9	1,214.6	29.33	42.407 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 42-34 (EXISTING) - EXISTING - GYRO										Offset Site Error:		0.0 ft		
Survey Program: 100-Gyro										Offset Well Error:		0.0 ft		
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,500.0	7,167.0	7,174.4	7,168.6	29.4	6.4	-89.76	-2,093.8	851.1	1,226.9	1,191.2	35.68	34.387		
8,600.0	7,167.0	7,170.3	7,164.4	31.0	6.4	-89.53	-2,093.9	851.0	1,176.0	1,138.7	37.28	31.546		
8,700.0	7,167.0	7,166.1	7,160.3	32.6	6.4	-89.30	-2,094.0	850.8	1,131.6	1,092.7	38.89	29.096		
8,800.0	7,167.0	7,162.0	7,156.2	34.3	6.4	-89.07	-2,094.2	850.7	1,094.6	1,054.0	40.52	27.014		
8,900.0	7,167.0	7,157.9	7,152.1	35.9	6.4	-88.84	-2,094.3	850.6	1,065.6	1,023.5	42.16	25.279		
9,000.0	7,167.0	7,153.8	7,148.0	37.6	6.4	-88.61	-2,094.5	850.5	1,045.5	1,001.7	43.80	23.869		
9,100.0	7,167.0	7,149.7	7,143.9	39.2	6.4	-88.38	-2,094.6	850.4	1,034.7	989.2	45.46	22.762		
9,162.8	7,167.0	7,147.1	7,141.3	40.3	6.4	-88.24	-2,094.7	850.3	1,032.8	986.3	46.50	22.209	CC, ES	
9,200.0	7,167.0	7,145.6	7,139.8	40.9	6.4	-88.16	-2,094.7	850.2	1,033.4	986.3	47.12	21.933		
9,300.0	7,167.0	7,141.5	7,135.7	42.6	6.4	-87.93	-2,094.9	850.1	1,041.8	993.0	48.79	21.355		
9,400.0	7,167.0	7,137.4	7,131.6	44.2	6.4	-87.71	-2,095.0	850.0	1,059.6	1,009.1	50.46	21.000		
9,500.0	7,167.0	7,133.4	7,127.6	45.9	6.4	-87.48	-2,095.2	849.8	1,086.3	1,034.2	52.13	20.837	SF	
9,600.0	7,167.0	7,129.3	7,123.5	47.6	6.4	-87.26	-2,095.3	849.7	1,121.4	1,067.5	53.81	20.838		
9,700.0	7,167.0	7,125.3	7,119.5	49.3	6.4	-87.06	-2,095.4	849.6	1,163.0	1,107.6	55.44	20.977		
9,800.0	7,167.0	7,121.4	7,115.6	51.0	6.4	-86.84	-2,095.6	849.4	1,210.7	1,153.5	57.12	21.194		
9,900.0	7,167.0	7,117.4	7,111.6	52.7	6.4	-86.63	-2,095.7	849.3	1,264.4	1,205.6	58.81	21.499		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 43-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			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)	
9,000.0	7,167.0	7,185.5	7,182.0	37.6	6.3	-89.83	-2,913.2	474.8	1,187.6	1,143.8	43.73	27.154		
9,100.0	7,167.0	7,186.3	7,182.8	39.2	6.3	-89.90	-2,913.2	474.8	1,106.1	1,060.7	45.40	24.364		
9,200.0	7,167.0	7,187.1	7,183.6	40.9	6.3	-89.97	-2,913.2	474.8	1,027.8	980.8	47.07	21.837		
9,300.0	7,167.0	7,187.9	7,184.4	42.6	6.3	-90.04	-2,913.2	474.8	953.7	904.9	48.75	19.565		
9,400.0	7,167.0	7,188.7	7,185.2	44.2	6.3	-90.11	-2,913.2	474.8	884.7	834.2	50.43	17.542		
9,500.0	7,167.0	7,189.5	7,186.1	45.9	6.3	-90.18	-2,913.2	474.8	822.0	769.9	52.12	15.772		
9,600.0	7,167.0	7,190.3	7,186.9	47.6	6.3	-90.25	-2,913.2	474.8	767.3	713.5	53.81	14.260		
9,700.0	7,167.0	7,191.1	7,187.7	49.3	6.3	-90.32	-2,913.2	474.8	721.5	666.0	55.45	13.011		
9,800.0	7,167.0	7,191.9	7,188.4	51.0	6.3	-90.39	-2,913.2	474.8	686.2	629.1	57.14	12.008		
9,900.0	7,167.0	7,192.7	7,189.2	52.7	6.3	-90.46	-2,913.2	474.8	664.2	605.4	58.85	11.287		
9,998.3	7,167.0	7,193.5	7,190.0	54.4	6.3	-90.53	-2,913.2	474.8	656.9	596.4	60.53	10.853 CC		
10,000.0	7,167.0	7,193.5	7,190.0	54.4	6.3	-90.53	-2,913.2	474.8	656.9	596.4	60.56	10.848 ES		
10,100.0	7,167.0	7,194.3	7,190.8	56.1	6.3	-90.60	-2,913.2	474.8	664.8	602.5	62.27	10.676 SF		
10,200.0	7,167.0	7,195.1	7,191.6	57.8	6.3	-90.67	-2,913.2	474.8	687.2	623.2	63.98	10.741		
10,300.0	7,167.0	7,195.8	7,192.4	59.5	6.3	-90.73	-2,913.3	474.7	722.9	657.2	65.70	11.004		
10,400.0	7,167.0	7,196.6	7,193.2	61.2	6.3	-90.80	-2,913.3	474.7	770.0	702.6	67.41	11.422		
10,500.0	7,167.0	7,197.4	7,194.0	63.0	6.3	-90.87	-2,913.3	474.7	826.6	757.4	69.13	11.956		
10,600.0	7,167.0	7,198.2	7,194.8	64.7	6.3	-90.94	-2,913.3	474.7	890.8	820.0	70.85	12.573		
10,700.0	7,167.0	7,199.0	7,195.6	66.4	6.3	-91.01	-2,913.3	474.7	961.2	888.6	72.58	13.244		
10,800.0	7,167.0	7,199.8	7,196.3	68.1	6.3	-91.08	-2,913.3	474.7	1,036.4	962.1	74.30	13.950		
10,900.0	7,167.0	7,200.0	7,196.6	69.8	6.3	-91.10	-2,913.3	474.7	1,115.6	1,039.6	76.03	14.674		
11,000.0	7,167.0	7,200.0	7,196.6	71.6	6.3	-91.10	-2,913.3	474.7	1,197.9	1,120.1	77.75	15.406		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										S34-T3N-R66W (Devore) - DEVORE 44-34 (EXISTING) - EXISTING - GYRO				Offset Site Error:		0.0 ft	
Survey Program: 100-Gyro												Offset Well Error:		0.0 ft			
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth 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					
10,800.0	7,167.0	7,230.2	7,228.2	68.1	6.3	-90.07	-4,508.6	791.0	1,243.4	1,169.0	74.35	16.724					
10,900.0	7,167.0	7,230.2	7,228.2	69.8	6.3	-90.07	-4,508.6	791.0	1,181.7	1,105.6	76.07	15.534					
11,000.0	7,167.0	7,230.3	7,228.3	71.6	6.3	-90.08	-4,508.6	791.0	1,125.6	1,047.8	77.80	14.468					
11,100.0	7,167.0	7,230.3	7,228.3	73.3	6.3	-90.08	-4,508.6	791.0	1,075.9	996.3	79.53	13.528					
11,200.0	7,167.0	7,230.4	7,228.4	75.0	6.3	-90.08	-4,508.6	791.0	1,033.5	952.2	81.26	12.718					
11,300.0	7,167.0	7,230.4	7,228.4	76.7	6.3	-90.08	-4,508.6	791.0	999.3	916.3	82.99	12.041					
11,400.0	7,167.0	7,230.5	7,228.4	78.5	6.3	-90.09	-4,508.6	791.0	974.2	889.5	84.72	11.499					
11,500.0	7,167.0	7,230.5	7,228.5	80.2	6.3	-90.09	-4,508.6	791.0	959.0	872.5	86.46	11.092					
11,597.4	7,167.0	7,230.5	7,228.5	81.9	6.3	-90.09	-4,508.6	791.0	954.0	865.8	88.14	10.823 CC					
11,600.0	7,167.0	7,230.5	7,228.5	81.9	6.3	-90.09	-4,508.6	791.0	954.0	865.8	88.19	10.818 ES					
11,667.2	7,167.0	7,230.6	7,228.5	83.1	6.3	-90.09	-4,508.6	791.0	956.5	867.2	89.36	10.705 SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 1206-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	103.60	-183.2	757.4	779.2					
100.0	100.0	100.3	100.3	0.2	0.2	103.60	-183.2	757.5	779.3	779.0	0.33	2,390.532		
200.0	200.0	199.7	199.7	0.3	0.3	103.60	-183.2	757.6	779.4	778.7	0.67	1,158.221		
300.0	300.0	299.0	299.0	0.5	0.5	103.59	-183.2	757.8	779.6	778.6	1.02	764.423		
400.0	400.0	398.3	398.3	0.7	0.7	103.59	-183.3	758.1	779.9	778.6	1.37	570.606		
500.0	500.0	497.7	497.7	0.8	0.9	103.59	-183.3	758.5	780.3	778.6	1.71	455.315		
600.0	600.0	597.0	597.0	1.0	1.0	142.61	-183.4	758.9	781.5	779.4	2.06	379.731		
700.0	700.0	696.3	696.3	1.2	1.2	142.71	-183.4	759.5	784.1	781.7	2.41	326.019		
800.0	799.9	795.5	795.5	1.4	1.4	142.87	-183.5	760.1	788.2	785.5	2.75	286.232		
900.0	899.7	894.6	894.6	1.6	1.6	143.09	-183.6	760.9	793.8	790.7	3.11	255.655		
1,000.0	999.4	993.5	993.5	1.8	1.7	143.38	-183.7	761.7	801.0	797.5	3.46	231.489		
1,100.0	1,098.9	1,092.3	1,092.3	2.0	1.9	143.72	-183.8	762.6	809.6	805.7	3.82	211.972		
1,200.0	1,198.3	1,190.9	1,190.9	2.2	2.1	144.11	-183.9	763.5	819.7	815.5	4.18	195.938		
1,300.0	1,297.4	1,292.4	1,292.3	2.5	2.2	144.58	-184.1	764.4	831.3	826.7	4.56	182.305		
1,400.0	1,396.3	1,409.0	1,409.0	2.8	2.5	145.13	-183.1	764.3	843.1	838.1	4.97	169.672		
1,500.0	1,494.9	1,550.0	1,549.8	3.1	2.7	145.76	-178.8	761.0	853.9	848.5	5.43	157.313		
1,600.0	1,593.4	1,709.7	1,708.6	3.4	3.0	146.48	-169.5	746.8	858.0	852.0	5.93	144.715		
1,700.0	1,691.9	1,824.6	1,822.3	3.7	3.2	146.96	-160.9	732.5	858.4	852.0	6.35	135.072		
1,800.0	1,790.4	1,940.5	1,936.6	4.1	3.5	147.48	-152.2	715.7	856.8	850.0	6.78	126.361		
1,900.0	1,888.9	2,030.6	2,025.5	4.4	3.7	147.98	-146.5	701.9	855.0	847.8	7.16	119.457		
2,000.0	1,987.3	2,141.4	2,134.8	4.7	4.0	148.58	-139.5	685.2	853.3	845.8	7.57	112.764		
2,100.0	2,086.0	2,245.7	2,237.4	5.0	4.3	149.11	-132.7	668.2	849.6	841.6	7.96	106.712		
2,200.0	2,185.0	2,345.6	2,335.8	5.3	4.6	149.60	-126.9	651.4	844.1	835.8	8.34	101.247		
2,300.0	2,284.2	2,444.2	2,432.8	5.6	4.9	150.03	-121.3	635.0	837.5	828.8	8.70	96.232		
2,400.0	2,383.6	2,540.9	2,528.1	5.8	5.2	150.42	-116.1	619.0	829.5	820.5	9.06	91.589		
2,500.0	2,483.1	2,639.0	2,624.7	6.1	5.5	150.77	-111.0	602.7	820.2	810.8	9.41	87.192		
2,600.0	2,582.8	2,737.8	2,722.1	6.3	5.8	151.11	-106.6	586.4	809.6	799.9	9.75	83.054		
2,700.0	2,682.7	2,834.2	2,817.0	6.5	6.1	151.40	-102.4	570.5	797.7	787.6	10.08	79.131		
2,800.0	2,782.6	2,941.5	2,922.6	6.6	6.5	151.67	-97.6	552.1	783.6	773.2	10.43	75.163		
2,900.0	2,882.6	3,034.5	3,014.1	6.8	6.8	151.84	-93.5	536.4	768.2	757.5	10.74	71.519		
3,000.0	2,982.6	3,129.0	3,107.3	6.9	7.1	112.95	-89.1	521.0	751.9	740.8	11.07	67.915		
3,100.0	3,082.6	3,232.2	3,209.0	7.0	7.4	113.11	-84.2	504.2	735.1	723.7	11.41	64.432		
3,200.0	3,182.6	3,321.3	3,296.9	7.2	7.7	113.28	-80.4	489.7	718.5	706.8	11.72	61.288		
3,300.0	3,282.6	3,408.8	3,383.3	7.3	7.9	113.49	-77.6	476.8	703.6	691.6	12.04	58.465		
3,400.0	3,382.6	3,509.5	3,483.0	7.4	8.2	113.84	-75.7	462.0	689.5	677.1	12.37	55.735		
3,500.0	3,482.6	3,616.5	3,588.6	7.6	8.6	114.21	-73.1	445.6	674.4	661.7	12.72	53.023		
3,600.0	3,582.6	3,720.9	3,691.7	7.7	8.9	114.44	-68.6	429.2	658.4	645.3	13.07	50.392		
3,700.0	3,682.6	3,821.3	3,790.6	7.9	9.3	114.65	-63.9	413.2	641.9	628.5	13.41	47.880		
3,800.0	3,782.6	3,914.0	3,882.1	8.0	9.6	114.81	-59.2	398.9	625.7	612.0	13.73	45.562		
3,900.0	3,882.6	4,019.2	3,986.0	8.1	9.9	114.91	-53.1	383.1	609.7	595.6	14.08	43.292		
4,000.0	3,982.6	4,134.0	4,098.7	8.3	10.3	115.04	-45.2	363.1	590.9	576.5	14.45	40.895		
4,100.0	4,082.6	4,227.8	4,190.8	8.4	10.7	115.19	-39.0	346.2	571.7	556.9	14.78	38.681		
4,200.0	4,182.6	4,319.0	4,280.4	8.6	11.0	115.38	-33.5	330.5	553.6	538.5	15.11	36.643		
4,300.0	4,282.6	4,415.2	4,375.2	8.7	11.3	115.56	-28.0	314.9	536.5	521.1	15.44	34.736		
4,400.0	4,382.6	4,508.2	4,466.9	8.9	11.6	115.78	-23.1	300.1	519.9	504.1	15.78	32.950		
4,500.0	4,482.6	4,607.3	4,564.6	9.0	11.9	116.15	-19.2	284.6	504.1	488.0	16.13	31.262		
4,600.0	4,582.6	4,703.8	4,660.0	9.2	12.3	116.49	-15.1	269.6	488.3	471.8	16.47	29.652		
4,700.0	4,682.6	4,810.5	4,765.2	9.3	12.6	116.61	-8.1	253.6	471.9	455.1	16.82	28.054		
4,800.0	4,782.6	4,905.6	4,858.8	9.5	12.9	116.67	-1.2	238.8	454.8	437.6	17.16	26.505		
4,900.0	4,882.6	5,005.6	4,957.5	9.7	13.3	116.72	5.8	223.8	438.3	420.8	17.50	25.042		
5,000.0	4,982.6	5,102.0	5,052.5	9.8	13.6	116.99	11.5	208.3	421.3	403.4	17.85	23.607		
5,100.0	5,082.6	5,201.5	5,150.6	10.0	13.9	117.43	16.2	192.3	404.8	386.6	18.20	22.239		

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 Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 1206-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	5,182.6	5,301.3	5,248.9	10.1	14.3	117.93	20.9	176.0	388.1	369.6	18.56	20.913		
5,300.0	5,282.6	5,395.9	5,342.2	10.3	14.6	118.29	26.0	161.4	371.9	353.0	18.90	19.675		
5,400.0	5,382.6	5,499.5	5,444.4	10.4	14.9	118.68	31.9	145.4	355.6	336.3	19.27	18.456		
5,500.0	5,482.6	5,595.2	5,538.7	10.6	15.3	118.98	38.2	130.3	338.6	319.0	19.61	17.265		
5,600.0	5,582.6	5,686.1	5,628.6	10.7	15.5	119.22	43.6	117.7	323.6	303.6	19.95	16.220		
5,700.0	5,682.6	5,783.9	5,725.5	10.9	15.8	119.28	49.8	106.0	310.1	289.8	20.29	15.285		
5,800.0	5,782.6	5,882.3	5,823.0	11.1	16.1	119.30	56.1	94.4	296.7	276.1	20.63	14.379		
5,900.0	5,882.6	5,984.4	5,924.1	11.2	16.4	119.65	61.4	81.5	283.2	262.2	20.99	13.488		
6,000.0	5,982.6	6,091.1	6,029.5	11.4	16.8	119.47	70.4	67.4	267.5	246.2	21.34	12.537		
6,100.0	6,082.6	6,187.7	6,124.6	11.5	17.1	118.88	80.7	54.3	250.4	228.8	21.65	11.566		
6,200.0	6,182.6	6,284.8	6,220.5	11.7	17.4	118.20	90.6	42.1	234.5	212.6	21.97	10.677		
6,300.0	6,282.6	6,380.5	6,315.0	11.9	17.7	117.50	99.8	30.6	219.4	197.1	22.28	9.845		
6,400.0	6,382.6	6,474.8	6,408.5	12.0	17.9	116.83	107.7	20.6	206.1	183.5	22.60	9.119		
6,500.0	6,482.6	6,568.5	6,501.6	12.2	18.2	-64.40	113.1	12.2	195.2	172.3	22.90	8.524		
6,600.0	6,581.8	6,662.9	6,595.6	12.3	18.4	-68.38	116.4	5.2	182.5	159.3	23.11	7.895		
6,700.0	6,678.5	6,753.9	6,686.6	12.3	18.5	-76.62	118.2	0.5	169.0	145.3	23.64	7.149		
6,800.0	6,770.8	6,841.8	6,774.4	12.3	18.7	-89.09	119.0	-2.0	160.8	135.9	24.90	6.458		
6,816.8	6,785.8	6,856.1	6,788.7	12.4	18.7	-91.46	119.1	-2.2	160.6	135.4	25.17	6.380 CC, ES		
6,900.0	6,856.9	6,926.8	6,859.3	12.4	18.8	-103.93	119.5	-2.9	166.6	140.2	26.41	6.307 SF		
7,000.0	6,935.0	7,004.6	6,937.2	12.5	18.9	-117.20	120.0	-3.8	193.2	166.2	27.00	7.154		
7,100.0	7,003.8	7,073.1	7,005.7	12.8	19.0	-126.50	120.5	-4.7	241.6	215.1	26.52	9.111		
7,200.0	7,061.7	7,130.7	7,063.2	13.2	19.0	-131.42	121.0	-5.6	307.8	282.2	25.61	12.017		
7,300.0	7,107.8	7,176.4	7,109.0	13.8	19.1	-132.08	121.4	-6.5	386.7	361.7	25.01	15.464		
7,400.0	7,141.1	7,209.3	7,141.8	14.6	19.2	-127.49	121.7	-7.2	474.5	449.0	25.47	18.628		
7,500.0	7,160.9	7,228.5	7,161.1	15.5	19.2	-114.32	121.8	-7.7	567.9	540.2	27.68	20.516		
7,600.0	7,167.0	7,233.8	7,166.3	16.6	19.2	-89.40	121.9	-7.8	664.4	634.5	29.96	22.178		
7,700.0	7,167.0	7,233.0	7,165.5	17.8	19.2	-89.08	121.9	-7.8	762.0	730.9	31.16	24.452		
7,800.0	7,167.0	7,232.1	7,164.6	19.1	19.2	-88.77	121.9	-7.8	860.2	827.7	32.45	26.505		
7,900.0	7,167.0	7,231.3	7,163.8	20.4	19.2	-88.46	121.8	-7.8	958.7	924.9	33.81	28.356		
8,000.0	7,167.0	7,230.4	7,162.9	21.8	19.2	-88.14	121.8	-7.7	1,057.5	1,022.3	35.22	30.025		
8,100.0	7,167.0	7,229.6	7,162.1	23.3	19.2	-87.83	121.8	-7.7	1,156.6	1,119.9	36.68	31.532		
8,200.0	7,167.0	7,228.7	7,161.2	24.8	19.2	-87.51	121.8	-7.7	1,255.7	1,217.6	38.17	32.898		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 6-4-34 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 805-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			
8,300.0	7,167.0	7,240.9	7,174.3	26.3	17.0	-79.06	-2,449.4	-119.8	1,227.8	1,187.8	39.98	30.710		
8,400.0	7,167.0	7,241.9	7,175.3	27.9	17.0	-79.89	-2,449.4	-119.8	1,128.0	1,086.3	41.62	27.104		
8,500.0	7,167.0	7,242.9	7,176.3	29.4	17.0	-80.72	-2,449.4	-119.8	1,028.2	984.9	43.27	23.759		
8,600.0	7,167.0	7,243.8	7,177.3	31.0	17.0	-81.55	-2,449.4	-119.8	928.4	883.4	44.95	20.654		
8,700.0	7,167.0	7,244.8	7,178.2	32.6	17.0	-82.38	-2,449.4	-119.8	828.7	782.0	46.64	17.767		
8,800.0	7,167.0	7,245.8	7,179.2	34.3	17.0	-83.21	-2,449.4	-119.8	729.0	680.7	48.34	15.080		
8,900.0	7,167.0	7,246.7	7,180.1	35.9	17.0	-84.04	-2,449.5	-119.8	629.5	579.4	50.05	12.577		
9,000.0	7,167.0	7,247.7	7,181.1	37.6	17.0	-84.88	-2,449.5	-119.8	530.1	478.4	51.77	10.240		
9,100.0	7,167.0	7,248.6	7,182.1	39.2	17.0	-85.71	-2,449.5	-119.7	431.1	377.6	53.49	8.059		
9,200.0	7,167.0	7,249.6	7,183.0	40.9	17.0	-86.54	-2,449.5	-119.7	332.6	277.4	55.21	6.024		
9,300.0	7,167.0	7,250.5	7,184.0	42.6	17.0	-87.37	-2,449.5	-119.7	235.4	178.5	56.93	4.134		
9,400.0	7,167.0	7,251.5	7,184.9	44.2	17.0	-88.19	-2,449.5	-119.7	142.1	83.4	58.65	2.422		
9,500.0	7,167.0	7,252.4	7,185.8	45.9	17.0	-89.02	-2,449.5	-119.7	70.5	10.1	60.37	1.167 Level 2		
9,526.1	7,167.0	7,252.7	7,186.1	46.4	17.0	-89.23	-2,449.5	-119.7	65.4	4.6	60.82	1.076 Level 2, CC, ES, SF		
9,600.0	7,167.0	7,253.4	7,186.8	47.6	17.0	-89.84	-2,449.5	-119.7	98.7	36.6	62.08	1.590		
9,700.0	7,167.0	7,254.3	7,187.7	49.3	17.0	-90.65	-2,449.5	-119.7	185.4	121.6	63.81	2.906		
9,800.0	7,167.0	7,255.3	7,188.7	51.0	17.0	-91.46	-2,449.5	-119.7	280.9	215.4	65.50	4.288		
9,900.0	7,167.0	7,256.2	7,189.7	52.7	17.0	-92.27	-2,449.5	-119.6	378.7	311.5	67.19	5.636		
10,000.0	7,167.0	7,257.2	7,190.6	54.4	17.0	-93.07	-2,449.6	-119.6	477.4	408.5	68.86	6.932		
10,100.0	7,167.0	7,258.1	7,191.6	56.1	17.0	-93.87	-2,449.6	-119.6	576.5	506.0	70.53	8.174		
10,200.0	7,167.0	7,259.1	7,192.5	57.8	17.0	-94.67	-2,449.6	-119.6	675.9	603.7	72.18	9.364		
10,300.0	7,167.0	7,260.0	7,193.5	59.5	17.0	-95.46	-2,449.6	-119.6	775.5	701.6	73.82	10.505		
10,400.0	7,167.0	7,261.0	7,194.4	61.2	17.0	-96.24	-2,449.6	-119.6	875.1	799.7	75.44	11.600		
10,500.0	7,167.0	7,261.9	7,195.4	63.0	17.0	-97.02	-2,449.6	-119.6	974.8	897.8	77.05	12.653		
10,600.0	7,167.0	7,262.9	7,196.3	64.7	17.0	-97.80	-2,449.6	-119.6	1,074.6	996.0	78.64	13.665		
10,700.0	7,167.0	7,263.8	7,197.2	66.4	17.0	-98.57	-2,449.6	-119.5	1,174.4	1,094.2	80.21	14.641		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 6-8-34 (EXISTING) - EXISTING - SURVEYS													Offset Site Error:	0.0 ft
Survey Program: 805-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
10,800.0	7,167.0	7,305.5	7,235.9	68.1	19.9	-92.98	-4,961.6	13.1	1,252.7	1,170.4	82.26	15.228		
10,900.0	7,167.0	7,304.8	7,235.2	69.8	19.9	-92.76	-4,961.6	13.1	1,153.7	1,069.7	84.00	13.735		
11,000.0	7,167.0	7,304.2	7,234.6	71.6	19.9	-92.54	-4,961.6	13.1	1,054.9	969.2	85.73	12.305		
11,100.0	7,167.0	7,303.5	7,233.9	73.3	19.9	-92.32	-4,961.6	13.1	956.4	868.9	87.47	10.934		
11,200.0	7,167.0	7,302.9	7,233.3	75.0	19.9	-92.10	-4,961.6	13.1	858.2	769.0	89.20	9.620		
11,300.0	7,167.0	7,302.2	7,232.6	76.7	19.9	-91.88	-4,961.6	13.1	760.4	669.5	90.94	8.362		
11,400.0	7,167.0	7,301.6	7,232.0	78.5	19.9	-91.66	-4,961.6	13.1	663.4	570.7	92.68	7.158		
11,500.0	7,167.0	7,300.9	7,231.3	80.2	19.9	-91.44	-4,961.6	13.1	567.3	472.9	94.42	6.009		
11,600.0	7,167.0	7,300.3	7,230.7	81.9	19.9	-91.23	-4,961.6	13.1	472.9	376.8	96.15	4.918		
11,667.2	7,167.0	7,299.8	7,230.2	83.1	19.9	-91.08	-4,961.6	13.1	410.9	313.6	97.32	4.222	CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1D-34H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4974.0ft (Original Well Elev)
Reference Site:	S34-T3N-R66W (Devore)	MD Reference:	WELL @ 4974.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	Devore 1D-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 4974.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Devore 1D-34H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.48°

