

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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 1C-34H					
Well Position	+N/-S	0.0 ft	Northing:	1,312,301.59 ft	Latitude:	40.188280
	+E/-W	0.0 ft	Easting:	3,207,139.23 ft	Longitude:	-104.758590
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)
	IGRF2010	3/7/2013	8.61	66.82	52,838

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

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	13.00	290.00	1,688.9	50.2	-138.0	1.00	1.00	0.00	290.00	
2,850.0	13.00	290.00	2,809.4	138.7	-381.1	0.00	0.00	0.00	0.00	
4,150.0	0.00	0.00	4,098.3	188.9	-519.1	1.00	-1.00	0.00	180.00	
6,723.5	0.00	0.00	6,671.8	188.9	-519.1	0.00	0.00	0.00	0.00	
7,848.5	90.00	180.00	7,388.0	-527.3	-519.1	8.00	8.00	0.00	180.00	
9,448.5	90.00	180.00	7,388.0	-2,127.3	-519.1	0.00	0.00	0.00	0.00	
9,648.5	90.00	178.00	7,388.0	-2,327.2	-515.6	1.00	0.00	-1.00	-90.00	
10,548.5	90.00	178.00	7,388.0	-3,226.7	-484.2	0.00	0.00	0.00	0.00	
10,863.5	90.00	181.15	7,388.0	-3,541.6	-481.8	1.00	0.00	1.00	90.00	
10,863.6	90.00	181.15	7,388.0	-3,541.7	-481.8	0.00	0.00	0.00	0.00	
11,915.7	90.00	181.15	7,388.0	-4,593.6	-503.0	0.00	0.00	0.00	0.00	Devore 1C-34H PBHL

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Site:	S34-T3N-R66W (Devore)	North Reference:	True
Well:	Devore 1C-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	KOP @ 400'
500.0	1.00	290.00	500.0	0.3	-0.8	-0.3	1.00	1.00	
600.0	2.00	290.00	600.0	1.2	-3.3	-1.2	1.00	1.00	
649.1	2.49	290.00	649.0	1.9	-5.1	-1.9	1.00	1.00	Base of Fox Hills
700.0	3.00	290.00	699.9	2.7	-7.4	-2.7	1.00	1.00	
800.0	4.00	290.00	799.7	4.8	-13.1	-4.8	1.00	1.00	
900.0	5.00	290.00	899.4	7.5	-20.5	-7.5	1.00	1.00	
1,000.0	6.00	290.00	998.9	10.7	-29.5	-10.7	1.00	1.00	
1,100.0	7.00	290.00	1,098.3	14.6	-40.1	-14.6	1.00	1.00	
1,200.0	8.00	290.00	1,197.4	19.1	-52.4	-19.1	1.00	1.00	
1,300.0	9.00	290.00	1,296.3	24.1	-66.3	-24.1	1.00	1.00	
1,400.0	10.00	290.00	1,394.9	29.8	-81.8	-29.8	1.00	1.00	
1,500.0	11.00	290.00	1,493.3	36.0	-98.9	-36.0	1.00	1.00	
1,600.0	12.00	290.00	1,591.2	42.8	-117.7	-42.8	1.00	1.00	
1,700.0	13.00	290.00	1,688.9	50.2	-138.0	-50.2	1.00	1.00	EOB; Inc=13°
1,800.0	13.00	290.00	1,786.3	57.9	-159.1	-57.9	0.00	0.00	
1,900.0	13.00	290.00	1,883.7	65.6	-180.3	-65.6	0.00	0.00	
2,000.0	13.00	290.00	1,981.2	73.3	-201.4	-73.3	0.00	0.00	
2,100.0	13.00	290.00	2,078.6	81.0	-222.5	-81.0	0.00	0.00	
2,200.0	13.00	290.00	2,176.1	88.7	-243.7	-88.7	0.00	0.00	
2,300.0	13.00	290.00	2,273.5	96.4	-264.8	-96.4	0.00	0.00	
2,400.0	13.00	290.00	2,370.9	104.1	-286.0	-104.1	0.00	0.00	
2,500.0	13.00	290.00	2,468.4	111.8	-307.1	-111.8	0.00	0.00	
2,600.0	13.00	290.00	2,565.8	119.5	-328.2	-119.5	0.00	0.00	
2,700.0	13.00	290.00	2,663.2	127.2	-349.4	-127.2	0.00	0.00	
2,800.0	13.00	290.00	2,760.7	134.9	-370.5	-134.9	0.00	0.00	
2,850.0	13.00	290.00	2,809.4	138.7	-381.1	-138.7	0.00	0.00	Start Drop -1.00
2,900.0	12.50	290.00	2,858.2	142.5	-391.5	-142.5	1.00	-1.00	
3,000.0	11.50	290.00	2,956.0	149.6	-411.0	-149.6	1.00	-1.00	
3,100.0	10.50	290.00	3,054.1	156.1	-428.9	-156.1	1.00	-1.00	
3,200.0	9.50	290.00	3,152.6	162.1	-445.2	-162.1	1.00	-1.00	
3,300.0	8.50	290.00	3,251.4	167.4	-459.9	-167.4	1.00	-1.00	
3,400.0	7.50	290.00	3,350.4	172.2	-473.0	-172.2	1.00	-1.00	
3,500.0	6.50	290.00	3,449.7	176.3	-484.5	-176.3	1.00	-1.00	
3,600.0	5.50	290.00	3,549.1	179.9	-494.3	-179.9	1.00	-1.00	
3,700.0	4.50	290.00	3,648.7	182.9	-502.5	-182.9	1.00	-1.00	
3,800.0	3.50	290.00	3,748.5	185.3	-509.0	-185.3	1.00	-1.00	
3,900.0	2.50	290.00	3,848.4	187.1	-514.0	-187.1	1.00	-1.00	
4,000.0	1.50	290.00	3,948.3	188.3	-517.2	-188.3	1.00	-1.00	
4,100.0	0.50	290.00	4,048.3	188.9	-518.9	-188.9	1.00	-1.00	
4,150.0	0.00	0.00	4,098.3	188.9	-519.1	-188.9	1.00	-1.00	EOD; Inc=0°
4,200.0	0.00	0.00	4,148.3	188.9	-519.1	-188.9	0.00	0.00	
4,300.0	0.00	0.00	4,248.3	188.9	-519.1	-188.9	0.00	0.00	
4,400.0	0.00	0.00	4,348.3	188.9	-519.1	-188.9	0.00	0.00	
4,438.7	0.00	0.00	4,387.0	188.9	-519.1	-188.9	0.00	0.00	Sussex
4,500.0	0.00	0.00	4,448.3	188.9	-519.1	-188.9	0.00	0.00	
4,600.0	0.00	0.00	4,548.3	188.9	-519.1	-188.9	0.00	0.00	
4,700.0	0.00	0.00	4,648.3	188.9	-519.1	-188.9	0.00	0.00	

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Well:	Devore 1C-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
4,732.7	0.00	0.00	4,681.0	188.9	-519.1	-188.9	0.00	0.00	Sussex Marker
4,800.0	0.00	0.00	4,748.3	188.9	-519.1	-188.9	0.00	0.00	
4,900.0	0.00	0.00	4,848.3	188.9	-519.1	-188.9	0.00	0.00	
5,000.0	0.00	0.00	4,948.3	188.9	-519.1	-188.9	0.00	0.00	
5,086.7	0.00	0.00	5,035.0	188.9	-519.1	-188.9	0.00	0.00	Shannon
5,100.0	0.00	0.00	5,048.3	188.9	-519.1	-188.9	0.00	0.00	
5,200.0	0.00	0.00	5,148.3	188.9	-519.1	-188.9	0.00	0.00	
5,300.0	0.00	0.00	5,248.3	188.9	-519.1	-188.9	0.00	0.00	
5,400.0	0.00	0.00	5,348.3	188.9	-519.1	-188.9	0.00	0.00	
5,500.0	0.00	0.00	5,448.3	188.9	-519.1	-188.9	0.00	0.00	
5,600.0	0.00	0.00	5,548.3	188.9	-519.1	-188.9	0.00	0.00	
5,700.0	0.00	0.00	5,648.3	188.9	-519.1	-188.9	0.00	0.00	
5,800.0	0.00	0.00	5,748.3	188.9	-519.1	-188.9	0.00	0.00	
5,900.0	0.00	0.00	5,848.3	188.9	-519.1	-188.9	0.00	0.00	
6,000.0	0.00	0.00	5,948.3	188.9	-519.1	-188.9	0.00	0.00	
6,094.7	0.00	0.00	6,043.0	188.9	-519.1	-188.9	0.00	0.00	Teepee Buttes
6,100.0	0.00	0.00	6,048.3	188.9	-519.1	-188.9	0.00	0.00	
6,200.0	0.00	0.00	6,148.3	188.9	-519.1	-188.9	0.00	0.00	
6,300.0	0.00	0.00	6,248.3	188.9	-519.1	-188.9	0.00	0.00	
6,400.0	0.00	0.00	6,348.3	188.9	-519.1	-188.9	0.00	0.00	
6,500.0	0.00	0.00	6,448.3	188.9	-519.1	-188.9	0.00	0.00	
6,600.0	0.00	0.00	6,548.3	188.9	-519.1	-188.9	0.00	0.00	
6,700.0	0.00	0.00	6,648.3	188.9	-519.1	-188.9	0.00	0.00	
6,723.5	0.00	0.00	6,671.8	188.9	-519.1	-188.9	0.00	0.00	Start Build 8.00
6,800.0	6.12	180.00	6,748.1	184.8	-519.1	-184.8	8.00	8.00	
6,900.0	14.12	180.00	6,846.5	167.3	-519.1	-167.3	8.00	8.00	
7,000.0	22.12	180.00	6,941.5	136.2	-519.1	-136.2	8.00	8.00	
7,100.0	30.12	180.00	7,031.2	92.2	-519.1	-92.2	8.00	8.00	
7,114.9	31.31	180.00	7,044.0	84.6	-519.1	-84.6	8.00	8.00	Sharon Springs
7,200.0	38.12	180.00	7,113.9	36.2	-519.1	-36.2	8.00	8.00	
7,249.8	42.11	180.00	7,152.0	4.1	-519.1	-4.1	8.00	8.00	B Chalk
7,274.5	44.08	180.00	7,170.0	-12.8	-519.1	12.8	8.00	8.00	Niobrara
7,300.0	46.12	180.00	7,188.0	-30.8	-519.1	30.8	8.00	8.00	
7,400.0	54.12	180.00	7,252.1	-107.5	-519.1	107.5	8.00	8.00	
7,500.0	62.12	180.00	7,304.8	-192.4	-519.1	192.4	8.00	8.00	
7,600.0	70.12	180.00	7,345.3	-283.7	-519.1	283.7	8.00	8.00	
7,637.1	73.09	180.00	7,357.0	-318.9	-519.1	318.9	8.00	8.00	Ft. Hayes
7,700.0	78.12	180.00	7,372.6	-379.8	-519.1	379.8	8.00	8.00	
7,728.8	80.43	180.00	7,378.0	-408.2	-519.1	408.2	8.00	8.00	Codell
7,800.0	86.12	180.00	7,386.3	-478.8	-519.1	478.8	8.00	8.00	
7,848.5	90.00	180.00	7,388.0	-527.3	-519.1	527.3	8.00	8.00	LP @ 7388' TVD; 90°
7,900.0	90.00	180.00	7,388.0	-578.8	-519.1	578.8	0.00	0.00	
8,000.0	90.00	180.00	7,388.0	-678.8	-519.1	678.8	0.00	0.00	
8,100.0	90.00	180.00	7,388.0	-778.8	-519.1	778.8	0.00	0.00	
8,200.0	90.00	180.00	7,388.0	-878.8	-519.1	878.8	0.00	0.00	
8,300.0	90.00	180.00	7,388.0	-978.8	-519.1	978.8	0.00	0.00	
8,400.0	90.00	180.00	7,388.0	-1,078.8	-519.1	1,078.8	0.00	0.00	
8,500.0	90.00	180.00	7,388.0	-1,178.8	-519.1	1,178.8	0.00	0.00	
8,600.0	90.00	180.00	7,388.0	-1,278.8	-519.1	1,278.8	0.00	0.00	
8,700.0	90.00	180.00	7,388.0	-1,378.8	-519.1	1,378.8	0.00	0.00	
8,800.0	90.00	180.00	7,388.0	-1,478.8	-519.1	1,478.8	0.00	0.00	
8,900.0	90.00	180.00	7,388.0	-1,578.8	-519.1	1,578.8	0.00	0.00	

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Well:	Devore 1C-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
9,000.0	90.00	180.00	7,388.0	-1,678.8	-519.1	1,678.8	0.00	0.00	
9,100.0	90.00	180.00	7,388.0	-1,778.8	-519.1	1,778.8	0.00	0.00	
9,200.0	90.00	180.00	7,388.0	-1,878.8	-519.1	1,878.8	0.00	0.00	
9,300.0	90.00	180.00	7,388.0	-1,978.8	-519.1	1,978.8	0.00	0.00	
9,400.0	90.00	180.00	7,388.0	-2,078.8	-519.1	2,078.8	0.00	0.00	
9,448.5	90.00	180.00	7,388.0	-2,127.3	-519.1	2,127.3	0.00	0.00	Start turn @ 9448' MD
9,500.0	90.00	179.48	7,388.0	-2,178.8	-518.8	2,178.8	1.00	0.00	
9,600.0	90.00	178.48	7,388.0	-2,278.8	-517.1	2,278.8	1.00	0.00	
9,648.5	90.00	178.00	7,388.0	-2,327.2	-515.6	2,327.2	1.00	0.00	End of turn @ 9648' MD
9,700.0	90.00	178.00	7,388.0	-2,378.7	-513.8	2,378.7	0.00	0.00	
9,800.0	90.00	178.00	7,388.0	-2,478.6	-510.3	2,478.6	0.00	0.00	
9,900.0	90.00	178.00	7,388.0	-2,578.6	-506.8	2,578.6	0.00	0.00	
10,000.0	90.00	178.00	7,388.0	-2,678.5	-503.3	2,678.5	0.00	0.00	
10,100.0	90.00	178.00	7,388.0	-2,778.5	-499.8	2,778.5	0.00	0.00	
10,200.0	90.00	178.00	7,388.0	-2,878.4	-496.3	2,878.4	0.00	0.00	
10,300.0	90.00	178.00	7,388.0	-2,978.3	-492.9	2,978.3	0.00	0.00	
10,400.0	90.00	178.00	7,388.0	-3,078.3	-489.4	3,078.3	0.00	0.00	
10,500.0	90.00	178.00	7,388.0	-3,178.2	-485.9	3,178.2	0.00	0.00	
10,548.5	90.00	178.00	7,388.0	-3,226.7	-484.2	3,226.7	0.00	0.00	Start turn @ 10548' MD
10,600.0	90.00	178.52	7,388.0	-3,278.2	-482.6	3,278.2	1.00	0.00	
10,700.0	90.00	179.52	7,388.0	-3,378.1	-480.9	3,378.1	1.00	0.00	
10,800.0	90.00	180.52	7,388.0	-3,478.1	-480.9	3,478.1	1.00	0.00	
10,863.5	90.00	181.15	7,388.0	-3,541.6	-481.8	3,541.6	1.00	0.00	
10,863.6	90.00	181.15	7,388.0	-3,541.7	-481.8	3,541.7	0.00	0.00	End of turn @ 10863' MD
10,900.0	90.00	181.15	7,388.0	-3,578.1	-482.6	3,578.1	0.00	0.00	
11,000.0	90.00	181.15	7,388.0	-3,678.1	-484.6	3,678.1	0.00	0.00	
11,100.0	90.00	181.15	7,388.0	-3,778.1	-486.6	3,778.1	0.00	0.00	
11,200.0	90.00	181.15	7,388.0	-3,878.1	-488.6	3,878.1	0.00	0.00	
11,300.0	90.00	181.15	7,388.0	-3,978.0	-490.6	3,978.0	0.00	0.00	
11,400.0	90.00	181.15	7,388.0	-4,078.0	-492.6	4,078.0	0.00	0.00	
11,500.0	90.00	181.15	7,388.0	-4,178.0	-494.6	4,178.0	0.00	0.00	
11,600.0	90.00	181.15	7,388.0	-4,278.0	-496.6	4,278.0	0.00	0.00	
11,700.0	90.00	181.15	7,388.0	-4,378.0	-498.6	4,378.0	0.00	0.00	
11,800.0	90.00	181.15	7,388.0	-4,477.9	-500.6	4,477.9	0.00	0.00	
11,900.0	90.00	181.15	7,388.0	-4,577.9	-502.6	4,577.9	0.00	0.00	
11,915.7	90.00	181.15	7,388.0	-4,593.6	-503.0	4,593.6	0.00	0.00	TD at 11915.7

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Devore 1C-34H PBHL - hit/miss target - Shape - Point	0.00	0.00	7,388.0	-4,593.6	-503.0	1,307,703.97	3,206,674.67	40.175670	-104.760390

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1C-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 1C-34H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Hz		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
649.1	649.0	Base of Fox Hills				
4,438.7	4,387.0	Sussex				
4,732.7	4,681.0	Sussex Marker				
5,086.7	5,035.0	Shannon				
6,094.7	6,043.0	Teepee Buttes				
7,114.9	7,044.0	Sharon Springs				
7,249.8	7,152.0	B Chalk				
7,274.5	7,170.0	Niobrara				
7,637.1	7,357.0	Ft. Hayes				
7,728.8	7,378.0	Codell				

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
400.0	400.0	0.0	0.0	KOP @ 400'	
1,700.0	1,688.9	50.2	-138.0	EOB; Inc=13°	
2,850.0	2,809.4	138.7	-381.1	Start Drop -1.00	
4,150.0	4,098.3	188.9	-519.1	EOD; Inc=0°	
6,723.5	6,671.8	188.9	-519.1	Start Build 8.00	
7,848.5	7,388.0	-527.3	-519.1	LP @ 7388' TVD; 90°	
9,448.5	7,388.0	-2,127.3	-519.1	Start turn @ 9448' MD	
9,648.5	7,388.0	-2,327.2	-515.6	End of turn @ 9648' MD	
10,548.5	7,388.0	-3,226.7	-484.2	Start turn @ 10548' MD	
10,863.6	7,388.0	-3,541.7	-481.8	End of turn @ 10863' MD	
11,915.7	7,388.0	-4,593.6	-503.0	TD at 11915.7	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T3N-R66W (Devore)

Devore 1C-34H

Hz

Plan #1

Anticollision Report

14 March, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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	11,965.6	Plan #1 (Hz)	MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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	8,288.0	7,435.9	634.6	606.2	22.323	CC
DEVORE 1 (EXISTING) - EXISTING - GYRO	8,300.0	7,435.7	634.7	606.1	22.196	ES
DEVORE 1 (EXISTING) - EXISTING - GYRO	8,500.0	7,432.9	669.1	637.6	21.214	SF
Devore 1A-34H - Hz - Plan #1	200.0	200.0	19.6	18.9	29.960	CC, ES
Devore 1A-34H - Hz - Plan #1	11,965.6	12,016.3	701.4	534.2	4.195	SF
Devore 1B-34H - Hz - Plan #1	300.0	300.0	11.2	10.2	11.155	CC, ES
Devore 1B-34H - Hz - Plan #1	11,965.6	11,748.6	397.0	256.0	2.816	SF
Devore 1D-34H - Hz - Plan #1	400.0	400.0	8.4	7.0	6.204	CC, ES
Devore 1D-34H - Hz - Plan #1	11,965.6	11,667.0	413.3	271.7	2.918	SF
Devore 1E-34H - Hz - Plan #1	400.0	400.0	19.6	18.2	14.477	CC, ES
Devore 1E-34H - Hz - Plan #1	11,965.6	11,892.2	698.6	532.2	4.198	SF
Devore 1F-34H - Hz - Plan #1	400.0	400.0	30.7	29.4	22.749	CC, ES
Devore 1F-34H - Hz - Plan #1	11,965.6	11,701.9	1,072.3	909.3	6.579	SF
Devore 1G-34H - Hz - Plan #1	300.0	300.0	39.1	38.1	39.042	CC, ES
Devore 1G-34H - Hz - Plan #1	600.0	597.6	49.9	47.9	24.419	SF
Devore 1H-34H - Hz - Plan #1	200.0	200.0	50.3	49.6	77.041	CC, ES
Devore 1H-34H - Hz - Plan #1	600.0	595.7	67.2	65.1	32.890	SF
DEVORE 31-34 (EXISTING) - EXISTING - GYRO	7,589.2	7,385.1	326.4	306.0	16.000	CC, ES
DEVORE 31-34 (EXISTING) - EXISTING - GYRO	7,600.0	7,389.2	326.6	306.1	15.950	SF
DEVORE 32-34 (EXISTING) - EXISTING - GYRO	9,144.0	7,449.2	72.7	31.0	1.742	CC, ES, SF
DEVORE 33-34 (EXISTING) - EXISTING - GYRO	10,469.3	7,456.7	61.6	-2.2	0.966	Level 1, CC, ES, SF
DEVORE 3-34 (EXISTING) - EXISTING - GYRO	11,287.2	7,462.9	837.9	759.7	10.710	CC
DEVORE 3-34 (EXISTING) - EXISTING - GYRO	11,300.0	7,462.1	838.0	759.6	10.681	ES
DEVORE 3-34 (EXISTING) - EXISTING - GYRO	11,400.0	7,457.1	845.5	765.3	10.545	SF
DEVORE 34-34 (EXISTING) - EXISTING - GYRO	11,713.1	7,427.5	80.1	-5.4	0.937	Level 1, CC, ES, SF
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	0.0	0.0	797.5			
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	404.0	389.6	798.0	797.0	780.004	ES
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	3,100.0	3,039.7	1,254.2	1,246.2	154.986	SF
DEVORE 42-34 (EXISTING) - EXISTING - GYRO						Out of range
DEVORE 43-34 (EXISTING) - EXISTING - GYRO	10,318.2	7,460.5	975.3	914.2	15.961	CC, ES
DEVORE 43-34 (EXISTING) - EXISTING - GYRO	10,600.0	7,460.9	1,015.2	949.3	15.398	SF
DEVORE 44-34 (EXISTING) - EXISTING - GYRO						Out of range
DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS	7,125.7	7,137.7	522.1	495.8	19.857	CC, ES
DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS	7,300.0	7,283.4	532.0	504.7	19.453	SF
DEVORE 6-4-34 (EXISTING) - EXISTING - SURVEYS	9,835.6	7,519.4	402.8	341.3	6.546	CC, ES
DEVORE 6-4-34 (EXISTING) - EXISTING - SURVEYS	9,900.0	7,519.7	407.9	345.3	6.514	SF
DEVORE 6-8-34 (EXISTING) - EXISTING - SURVEYS	11,965.6	7,522.9	639.6	541.4	6.512	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	171.84	-824.4	118.2	832.8					
100.0	100.0	103.7	103.7	0.2	0.1	171.87	-823.9	117.7	832.3	832.1	0.24	3,427.201		
200.0	200.0	202.7	202.7	0.3	0.2	171.91	-823.2	117.1	831.5	831.0	0.50	1,649.220		
300.0	300.0	300.0	300.0	0.5	0.3	171.94	-822.6	116.5	830.8	830.1	0.76	1,087.862		
400.0	400.0	400.0	399.9	0.7	0.4	171.95	-822.2	116.2	830.3	829.3	1.03	809.674		
444.0	444.0	443.0	443.0	0.8	0.4	-118.05	-822.0	116.2	830.2	829.1	1.14	728.764		
500.0	500.0	497.8	497.8	0.9	0.4	-118.09	-821.8	116.1	830.4	829.1	1.29	646.196		
600.0	600.0	599.3	599.3	1.0	0.5	-118.23	-821.6	115.8	831.3	829.8	1.55	536.018		
700.0	699.9	697.1	697.0	1.2	0.6	-118.45	-821.3	115.5	833.1	831.3	1.82	458.200		
800.0	799.7	799.3	799.3	1.4	0.7	-118.79	-821.1	115.2	835.8	833.7	2.10	398.565		
900.0	899.4	900.7	900.7	1.6	0.8	-119.21	-820.6	114.8	839.1	836.7	2.38	351.828		
1,000.0	998.9	999.5	999.5	1.8	0.9	-119.73	-820.1	114.5	843.2	840.5	2.68	314.339		
1,100.0	1,098.3	1,098.5	1,098.5	2.1	1.0	-120.33	-819.6	114.3	848.4	845.4	2.99	283.353		
1,200.0	1,197.4	1,198.2	1,198.2	2.3	1.0	-121.03	-819.1	114.2	854.5	851.2	3.32	257.307		
1,300.0	1,296.3	1,298.2	1,298.2	2.6	1.1	-121.81	-818.5	114.0	861.7	858.0	3.66	235.146		
1,400.0	1,394.9	1,390.6	1,390.5	2.9	1.2	-122.56	-818.3	113.5	870.2	866.2	4.02	216.574		
1,500.0	1,493.3	1,494.6	1,494.6	3.3	1.3	-123.50	-818.2	113.0	880.1	875.7	4.40	200.129		
1,600.0	1,591.2	1,589.4	1,589.4	3.7	1.4	-124.39	-817.9	112.4	890.9	886.1	4.79	186.143		
1,700.0	1,688.9	1,688.7	1,688.7	4.1	1.5	-125.37	-817.8	111.5	903.2	898.0	5.19	173.897		
1,800.0	1,786.3	1,782.5	1,782.4	4.5	1.6	-126.42	-817.8	110.8	916.3	910.8	5.60	163.767		
1,900.0	1,883.7	1,880.4	1,880.3	4.9	1.6	-127.50	-817.9	110.5	930.1	924.1	6.00	155.107		
2,000.0	1,981.2	1,984.2	1,984.2	5.3	1.7	-128.66	-817.4	110.7	943.8	937.5	6.40	147.562		
2,100.0	2,078.6	2,081.1	2,081.0	5.7	1.8	-129.72	-816.5	110.9	957.5	950.7	6.79	141.081		
2,200.0	2,176.1	2,176.1	2,176.1	6.1	1.9	-130.76	-815.6	111.8	971.7	964.5	7.17	135.519		
2,300.0	2,273.5	2,262.0	2,262.0	6.6	2.0	-131.74	-815.0	113.6	986.8	979.3	7.54	130.841		
2,400.0	2,370.9	2,345.6	2,345.5	7.0	2.0	-132.66	-815.3	115.9	1,003.6	995.7	7.91	126.914		
2,500.0	2,468.4	2,429.0	2,428.9	7.4	2.1	-133.56	-816.6	118.7	1,022.0	1,013.7	8.27	123.601		
2,600.0	2,565.8	2,511.3	2,511.0	7.8	2.2	-134.43	-818.9	121.9	1,042.0	1,033.4	8.62	120.833		
2,700.0	2,663.2	2,600.0	2,599.6	8.3	2.3	-135.32	-822.6	125.7	1,063.6	1,054.6	8.98	118.488		
2,800.0	2,760.7	2,683.3	2,682.7	8.7	2.3	-136.08	-827.1	128.9	1,086.4	1,077.0	9.33	116.496		
2,900.0	2,858.2	2,784.0	2,783.2	9.1	2.4	-136.96	-833.3	131.6	1,109.4	1,099.7	9.67	114.712		
3,000.0	2,956.0	2,887.4	2,886.4	9.5	2.5	-137.78	-839.7	132.9	1,130.9	1,120.9	10.00	113.121		
3,100.0	3,054.1	2,998.5	2,997.3	9.9	2.6	-138.52	-845.9	133.7	1,150.4	1,140.1	10.31	111.532		
3,200.0	3,152.6	3,098.1	3,096.8	10.2	2.7	-139.12	-850.6	134.5	1,168.0	1,157.4	10.61	110.060		
3,300.0	3,251.4	3,197.5	3,196.0	10.5	2.8	-139.68	-854.9	135.8	1,184.3	1,173.5	10.90	108.687		
3,400.0	3,350.4	3,300.1	3,298.6	10.8	2.9	-140.19	-859.0	137.3	1,199.2	1,188.0	11.17	107.352		
3,500.0	3,449.7	3,408.6	3,407.0	11.1	3.0	-140.63	-862.7	138.6	1,212.1	1,200.7	11.44	105.968		
3,600.0	3,549.1	3,500.4	3,498.7	11.3	3.1	-140.97	-865.7	139.7	1,223.7	1,212.0	11.69	104.711		
3,700.0	3,648.7	3,610.0	3,608.3	11.5	3.2	-141.28	-869.2	141.0	1,233.8	1,221.9	11.94	103.349		
3,800.0	3,748.5	3,703.7	3,702.0	11.7	3.3	-141.45	-872.6	141.3	1,242.5	1,230.3	12.18	102.051		
3,900.0	3,848.4	3,813.3	3,811.4	11.9	3.4	-141.54	-876.8	140.7	1,249.6	1,237.1	12.42	100.600		
4,000.0	3,948.3	3,916.3	3,914.3	12.0	3.5	-141.53	-880.7	139.5	1,254.9	1,242.2	12.66	99.144		
4,100.0	4,048.3	4,025.5	4,023.5	12.1	3.6	-141.45	-884.1	137.6	1,258.0	1,245.1	12.89	97.566		
4,200.0	4,148.3	4,113.6	4,111.5	12.2	3.6	148.64	-887.0	136.5	1,260.4	1,247.3	13.11	96.134		
4,300.0	4,248.3	4,214.0	4,211.9	12.3	3.7	148.74	-890.3	136.0	1,262.9	1,249.6	13.34	94.661		
4,400.0	4,348.3	4,313.6	4,311.4	12.4	3.8	148.84	-893.6	135.6	1,265.5	1,251.9	13.57	93.237		
7,000.0	6,944.5	6,954.5	6,951.8	15.5	6.1	-32.00	-922.7	117.1	1,249.8	1,230.4	19.37	64.508		
7,100.0	7,036.9	7,042.8	7,040.1	15.5	6.2	-34.48	-921.9	117.6	1,216.9	1,197.7	19.25	63.202		
7,200.0	7,123.3	7,132.4	7,129.7	15.6	6.3	-38.18	-921.1	117.3	1,173.6	1,154.5	19.12	61.382		
7,300.0	7,201.8	7,207.5	7,204.8	15.7	6.3	-43.10	-920.8	116.8	1,121.6	1,102.5	19.06	58.853		
7,400.0	7,270.9	7,283.9	7,281.2	15.9	6.4	-49.97	-920.3	116.2	1,062.3	1,043.1	19.20	55.327		
7,500.0	7,329.3	7,342.5	7,339.8	16.2	6.5	-58.24	-919.6	115.7	997.6	978.0	19.62	50.837		

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 1C-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 1C-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	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)				
7,600.0	7,375.9	7,387.1	7,384.4	16.7	6.5	-67.50	-918.9	115.6	930.5	910.2	20.33	45.774		
7,700.0	7,409.7	7,418.0	7,415.2	17.4	6.5	-76.70	-918.4	115.6	863.7	842.5	21.23	40.692		
7,800.0	7,430.1	7,436.0	7,433.2	18.2	6.5	-84.69	-918.1	115.6	800.4	778.2	22.25	35.982		
7,900.0	7,436.7	7,441.0	7,438.2	19.1	6.5	-90.50	-918.0	115.6	743.8	720.5	23.37	31.827		
8,000.0	7,436.7	7,439.7	7,437.0	20.2	6.5	-90.39	-918.0	115.6	696.9	672.4	24.56	28.371		
8,100.0	7,436.7	7,438.4	7,435.7	21.3	6.5	-90.27	-918.1	115.6	661.9	636.1	25.84	25.612		
8,200.0	7,436.7	7,437.1	7,434.3	22.6	6.5	-90.15	-918.1	115.6	640.7	613.5	27.19	23.563		
8,288.0	7,436.7	7,435.9	7,433.1	23.7	6.5	-90.04	-918.1	115.6	634.6	606.2	28.43	22.323 CC		
8,300.0	7,436.7	7,435.7	7,433.0	23.9	6.5	-90.03	-918.1	115.6	634.7	606.1	28.60	22.196 ES		
8,400.0	7,436.7	7,434.3	7,431.6	25.2	6.5	-89.90	-918.1	115.6	644.4	614.4	30.05	21.446		
8,500.0	7,436.7	7,432.9	7,430.1	26.6	6.5	-89.77	-918.1	115.6	669.1	637.6	31.54	21.214 SF		
8,600.0	7,436.7	7,431.4	7,428.7	28.0	6.5	-89.64	-918.2	115.6	707.2	674.1	33.06	21.389		
8,700.0	7,436.7	7,429.9	7,427.2	29.5	6.5	-89.50	-918.2	115.6	756.6	722.0	34.61	21.860		
8,800.0	7,436.7	7,428.4	7,425.6	31.0	6.5	-89.37	-918.2	115.6	815.4	779.2	36.18	22.535		
8,900.0	7,436.7	7,426.8	7,424.1	32.5	6.5	-89.22	-918.2	115.6	881.6	843.8	37.77	23.339		
9,000.0	7,436.7	7,425.2	7,422.4	34.1	6.5	-89.08	-918.3	115.6	953.7	914.3	39.38	24.218		
9,100.0	7,436.7	7,423.5	7,420.8	35.7	6.5	-88.93	-918.3	115.6	1,030.5	989.5	41.00	25.134		
9,200.0	7,436.7	7,421.8	7,419.1	37.2	6.5	-88.77	-918.3	115.6	1,111.0	1,068.3	42.63	26.060		
9,300.0	7,436.7	7,420.1	7,417.4	38.8	6.5	-88.62	-918.3	115.6	1,194.4	1,150.1	44.27	26.978		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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				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	-89.95	0.0	-19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-19.6	19.6	19.3	0.30	64.397		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-19.6	19.6	18.9	0.65	29.960 CC, ES		
300.0	300.0	299.7	299.6	0.5	0.5	-89.61	0.1	-20.4	20.4	19.4	1.00	20.379		
400.0	400.0	399.2	399.2	0.7	0.7	-88.76	0.5	-23.0	23.0	21.7	1.35	16.986		
500.0	500.0	498.8	498.6	0.9	0.9	-18.25	1.1	-27.3	26.5	24.8	1.70	15.604		
600.0	600.0	598.2	597.9	1.0	1.1	-18.54	1.9	-33.3	30.1	28.0	2.05	14.685		
700.0	699.9	697.6	697.0	1.2	1.3	-19.36	3.0	-40.9	33.7	31.3	2.40	14.058		
800.0	799.7	796.9	795.8	1.4	1.5	-20.57	4.3	-50.3	37.4	34.7	2.75	13.611		
900.0	899.4	896.2	894.4	1.6	1.8	-22.04	5.9	-61.4	41.2	38.1	3.10	13.279		
1,000.0	998.9	995.3	992.8	1.8	2.0	-23.69	7.7	-74.1	45.2	41.7	3.47	13.022		
1,100.0	1,098.3	1,094.4	1,090.8	2.1	2.3	-25.48	9.7	-88.6	49.2	45.4	3.84	12.812		
1,200.0	1,197.4	1,193.5	1,188.5	2.3	2.6	-27.35	12.0	-104.6	53.5	49.2	4.23	12.625		
1,300.0	1,296.3	1,292.4	1,285.8	2.6	3.0	-29.26	14.5	-122.4	57.9	53.2	4.65	12.446		
1,400.0	1,394.9	1,391.3	1,382.8	2.9	3.4	-31.21	17.2	-141.8	62.5	57.4	5.10	12.261		
1,500.0	1,493.3	1,490.1	1,479.3	3.3	3.8	-33.15	20.1	-162.8	67.3	61.7	5.58	12.062		
1,600.0	1,591.2	1,588.9	1,575.3	3.7	4.2	-35.08	23.3	-185.4	72.3	66.2	6.11	11.843		
1,700.0	1,688.9	1,687.5	1,670.9	4.1	4.7	-36.98	26.7	-209.7	77.6	70.9	6.69	11.603		
1,800.0	1,786.3	1,787.2	1,767.1	4.5	5.1	-38.72	30.3	-235.2	83.2	75.9	7.31	11.385		
1,900.0	1,883.7	1,887.0	1,863.6	4.9	5.6	-40.24	33.9	-260.8	88.9	80.9	7.95	11.177		
2,000.0	1,981.2	1,986.8	1,960.0	5.3	6.1	-41.58	37.5	-286.4	94.6	86.0	8.62	10.980		
2,100.0	2,078.6	2,086.6	2,056.4	5.7	6.6	-42.76	41.1	-312.0	100.4	91.1	9.30	10.797		
2,200.0	2,176.1	2,186.4	2,152.8	6.1	7.1	-43.82	44.7	-337.6	106.2	96.3	10.00	10.627		
2,300.0	2,273.5	2,286.3	2,249.2	6.6	7.5	-44.76	48.3	-363.1	112.1	101.4	10.71	10.472		
2,400.0	2,370.9	2,386.1	2,345.6	7.0	8.0	-45.61	51.9	-388.7	118.0	106.6	11.42	10.329		
2,500.0	2,468.4	2,485.9	2,442.0	7.4	8.5	-46.38	55.5	-414.3	123.9	111.8	12.15	10.198		
2,600.0	2,565.8	2,585.7	2,538.4	7.8	9.0	-47.08	59.1	-439.9	129.8	117.0	12.88	10.078		
2,700.0	2,663.2	2,685.5	2,634.8	8.3	9.5	-47.72	62.7	-465.5	135.8	122.2	13.62	9.968		
2,800.0	2,760.7	2,785.3	2,731.3	8.7	10.0	-48.30	66.3	-491.1	141.8	127.4	14.37	9.867		
2,900.0	2,858.2	2,885.1	2,827.7	9.1	10.5	-48.80	69.9	-516.6	147.9	132.8	15.10	9.791		
3,000.0	2,956.0	2,984.9	2,924.0	9.5	11.0	-48.86	73.5	-542.2	155.0	139.3	15.75	9.841		
3,100.0	3,054.1	3,084.5	3,020.3	9.9	11.5	-48.47	77.1	-567.7	163.3	147.0	16.30	10.017		
3,200.0	3,152.6	3,184.0	3,116.4	10.2	12.0	-47.70	80.6	-593.2	172.8	156.0	16.76	10.310		
3,300.0	3,251.4	3,283.4	3,212.4	10.5	12.5	-46.62	84.2	-618.7	183.4	166.3	17.12	10.715		
3,400.0	3,350.4	3,382.6	3,308.2	10.8	12.9	-45.31	87.8	-644.1	195.4	178.0	17.40	11.229		
3,500.0	3,449.7	3,481.5	3,403.7	11.1	13.4	-43.84	91.4	-669.5	208.7	191.1	17.61	11.853		
3,600.0	3,549.1	3,580.2	3,499.1	11.3	13.9	-42.25	94.9	-694.8	223.4	205.7	17.75	12.585		
3,700.0	3,648.7	3,678.7	3,594.2	11.5	14.4	-40.61	98.5	-720.0	239.6	221.8	17.85	13.425		
3,800.0	3,748.5	3,776.8	3,688.9	11.7	14.9	-38.96	102.0	-745.2	257.4	239.5	17.91	14.372		
3,900.0	3,848.4	3,874.6	3,783.4	11.9	15.4	-37.31	105.5	-770.2	276.7	258.7	17.94	15.423		
4,000.0	3,948.3	3,972.0	3,877.5	12.0	15.9	-35.70	109.0	-795.2	297.6	279.6	17.95	16.576		
4,100.0	4,048.3	4,069.0	3,971.2	12.1	16.3	-34.15	112.5	-820.1	320.1	302.2	17.96	17.827		
4,200.0	4,148.3	4,165.6	4,064.6	12.2	16.8	-102.62	116.0	-844.8	344.2	326.2	17.96	19.160		
4,300.0	4,248.3	4,262.2	4,157.9	12.3	17.3	-101.21	119.5	-869.6	368.6	350.6	18.00	20.474		
4,400.0	4,348.3	4,358.8	4,251.2	12.4	17.8	-99.97	123.0	-894.3	393.2	375.1	18.08	21.744		
4,500.0	4,448.3	4,455.4	4,344.5	12.5	18.3	-98.88	126.4	-919.1	418.0	399.8	18.20	22.969		
4,600.0	4,548.3	4,552.0	4,437.8	12.6	18.7	-97.91	129.9	-943.9	442.9	424.5	18.34	24.147		
4,700.0	4,648.3	4,648.6	4,531.1	12.8	19.2	-97.04	133.4	-968.6	467.9	449.4	18.51	25.281		
4,800.0	4,748.3	4,745.2	4,624.4	12.9	19.7	-96.26	136.9	-993.4	493.0	474.3	18.69	26.372		
4,900.0	4,848.3	4,841.8	4,717.7	13.0	20.2	-95.56	140.4	-1,018.1	518.1	499.2	18.90	27.420		
5,000.0	4,948.3	4,938.4	4,811.0	13.1	20.7	-94.92	143.8	-1,042.9	543.4	524.3	19.11	28.428		
5,100.0	5,048.3	5,035.0	4,904.3	13.2	21.1	-94.34	147.3	-1,067.6	568.7	549.3	19.35	29.396		

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 1C-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 1C-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	5,148.3	5,131.6	4,997.6	13.3	21.6	-93.81	150.8	-1,092.4	594.0	574.4	19.59	30.328		
5,300.0	5,248.3	5,231.5	5,094.1	13.5	22.1	-93.30	154.4	-1,117.9	619.3	599.5	19.84	31.217		
5,400.0	5,348.3	5,340.3	5,199.6	13.6	22.6	-92.82	158.1	-1,144.2	643.3	623.2	20.11	31.985		
5,500.0	5,448.3	5,450.0	5,306.5	13.7	23.1	-92.41	161.5	-1,168.8	665.6	645.2	20.40	32.623		
5,600.0	5,548.3	5,560.7	5,414.8	13.8	23.5	-92.06	164.7	-1,191.5	685.9	665.2	20.70	33.137		
5,700.0	5,648.3	5,672.3	5,524.3	13.9	23.9	-91.76	167.6	-1,212.2	704.5	683.5	21.01	33.532		
5,800.0	5,748.3	5,784.6	5,635.1	14.1	24.3	-91.50	170.3	-1,231.0	721.1	699.8	21.33	33.813		
5,900.0	5,848.3	5,897.7	5,746.9	14.2	24.6	-91.28	172.6	-1,247.7	735.9	714.2	21.65	33.986		
6,000.0	5,948.3	6,011.4	5,859.6	14.3	24.9	-91.10	174.7	-1,262.3	748.7	726.7	21.98	34.056		
6,100.0	6,048.3	6,125.6	5,973.2	14.4	25.2	-90.95	176.4	-1,274.8	759.5	737.2	22.32	34.027		
6,200.0	6,148.3	6,240.3	6,087.4	14.6	25.4	-90.83	177.9	-1,285.0	768.4	745.8	22.66	33.905		
6,300.0	6,248.3	6,355.4	6,202.2	14.7	25.6	-90.74	179.0	-1,293.0	775.4	752.4	23.01	33.694		
6,400.0	6,348.3	6,470.8	6,317.4	14.8	25.8	-90.67	179.8	-1,298.7	780.3	756.9	23.36	33.397		
6,500.0	6,448.3	6,586.3	6,432.9	15.0	25.9	-90.63	180.3	-1,302.2	783.3	759.6	23.72	33.021		
6,600.0	6,548.3	6,701.7	6,548.3	15.1	26.0	-90.62	180.4	-1,303.3	784.2	760.2	24.08	32.568		
6,700.0	6,648.3	6,801.7	6,648.3	15.2	26.1	-90.62	180.4	-1,303.3	784.2	759.8	24.42	32.120		
6,800.0	6,748.3	6,902.3	6,748.7	15.4	26.1	89.12	176.3	-1,303.2	784.2	759.4	24.76	31.672		
6,900.0	6,847.6	7,002.1	6,846.9	15.5	26.2	88.63	158.7	-1,302.8	784.0	759.0	25.01	31.345		
7,000.0	6,944.5	7,101.1	6,940.9	15.5	26.2	88.18	128.0	-1,302.2	783.5	758.4	25.15	31.148		
7,100.0	7,036.9	7,199.1	7,028.9	15.5	26.2	87.76	85.1	-1,301.3	782.8	757.6	25.24	31.010		
7,200.0	7,123.3	7,296.3	7,109.6	15.6	26.2	87.38	31.1	-1,300.2	782.0	756.6	25.36	30.830		
7,300.0	7,201.8	7,392.7	7,181.7	15.7	26.3	87.06	-32.8	-1,298.9	780.9	755.3	25.61	30.487		
7,400.0	7,270.9	7,488.4	7,244.2	15.9	26.4	86.79	-105.2	-1,297.4	779.6	753.5	26.09	29.877		
7,500.0	7,329.3	7,583.5	7,296.2	16.2	26.6	86.58	-184.8	-1,295.7	778.1	751.2	26.90	28.927		
7,600.0	7,375.9	7,678.2	7,336.9	16.7	26.9	86.43	-270.1	-1,293.9	776.5	748.4	28.09	27.643		
7,700.0	7,409.7	7,772.4	7,366.0	17.4	27.3	86.35	-359.6	-1,292.1	774.7	745.0	29.68	26.102		
7,800.0	7,430.1	7,866.2	7,383.1	18.2	27.8	86.33	-451.9	-1,290.2	772.8	741.2	31.64	24.427		
7,900.0	7,436.7	7,960.6	7,388.0	19.1	28.3	86.38	-546.0	-1,288.2	770.9	737.0	33.90	22.740		
8,000.0	7,436.7	8,060.6	7,388.0	20.2	29.0	86.37	-645.9	-1,286.2	768.8	732.5	36.30	21.179		
8,100.0	7,436.7	8,160.5	7,388.0	21.3	29.8	86.36	-745.9	-1,284.1	766.7	727.9	38.86	19.731		
8,200.0	7,436.7	8,260.5	7,388.0	22.6	30.7	86.35	-845.9	-1,282.0	764.7	723.1	41.56	18.401		
8,300.0	7,436.7	8,360.5	7,388.0	23.9	31.6	86.34	-945.8	-1,280.0	762.6	718.2	44.37	17.189		
8,400.0	7,436.7	8,460.5	7,388.0	25.2	32.6	86.33	-1,045.8	-1,277.9	760.5	713.3	47.27	16.090		
8,500.0	7,436.7	8,560.5	7,388.0	26.6	33.7	86.32	-1,145.7	-1,275.8	758.5	708.2	50.25	15.095		
8,600.0	7,436.7	8,660.4	7,388.0	28.0	34.8	86.31	-1,245.7	-1,273.8	756.4	703.1	53.29	14.195		
8,700.0	7,436.7	8,760.4	7,388.0	29.5	36.0	86.30	-1,345.6	-1,271.7	754.4	698.0	56.38	13.379		
8,800.0	7,436.7	8,860.4	7,388.0	31.0	37.2	86.29	-1,445.6	-1,269.6	752.3	692.8	59.52	12.639		
8,900.0	7,436.7	8,960.4	7,388.0	32.5	38.5	86.28	-1,545.6	-1,267.6	750.2	687.5	62.70	11.965		
9,000.0	7,436.7	9,060.3	7,388.0	34.1	39.8	86.27	-1,645.5	-1,265.5	748.2	682.3	65.91	11.351		
9,100.0	7,436.7	9,160.3	7,388.0	35.7	41.1	86.26	-1,745.5	-1,263.4	746.1	676.9	69.15	10.790		
9,200.0	7,436.7	9,260.3	7,388.0	37.2	42.5	86.25	-1,845.4	-1,261.4	744.0	671.6	72.41	10.275		
9,300.0	7,436.7	9,360.3	7,388.0	38.8	43.9	86.24	-1,945.4	-1,259.3	742.0	666.3	75.70	9.802		
9,400.0	7,436.7	9,460.3	7,388.0	40.5	45.3	86.23	-2,045.3	-1,257.2	739.9	660.9	79.00	9.366		
9,500.0	7,436.7	9,560.2	7,388.0	42.1	46.7	86.22	-2,145.3	-1,255.2	737.8	655.5	82.30	8.965		
9,600.0	7,436.7	9,660.2	7,388.0	43.7	48.2	86.21	-2,245.3	-1,253.1	736.7	651.6	85.13	8.653		
9,616.2	7,436.7	9,676.4	7,388.0	44.0	48.4	86.21	-2,261.4	-1,252.8	736.7	651.1	85.59	8.607		
9,700.0	7,436.7	9,760.2	7,388.0	45.3	49.7	86.21	-2,345.2	-1,251.0	737.3	649.3	87.97	8.382		
9,800.0	7,436.7	9,860.2	7,388.0	47.0	51.2	86.22	-2,445.2	-1,248.9	738.7	647.4	91.32	8.089		
9,900.0	7,436.7	9,960.2	7,388.0	48.6	52.7	86.23	-2,545.2	-1,246.9	740.1	645.4	94.68	7.817		
10,000.0	7,436.7	10,060.2	7,388.0	50.3	54.2	86.24	-2,645.1	-1,244.8	741.6	643.5	98.06	7.562		
10,100.0	7,436.7	10,160.2	7,388.0	51.9	55.8	86.24	-2,745.1	-1,242.7	743.0	641.5	101.44	7.324		
10,200.0	7,436.7	10,260.2	7,388.0	53.6	57.3	86.25	-2,845.1	-1,240.7	744.4	639.6	104.83	7.101		

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 1C-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 1C-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				Total		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,300.0	7,436.7	10,360.2	7,388.0	55.3	58.9	86.26	-2,945.1	-1,238.6	745.8	637.6	108.23	6.891		
10,400.0	7,436.7	10,460.2	7,388.0	56.9	60.5	86.26	-3,045.0	-1,236.5	747.2	635.6	111.63	6.694		
10,500.0	7,436.7	10,560.2	7,388.0	58.6	62.1	86.27	-3,145.0	-1,234.5	748.6	633.6	115.04	6.508		
10,600.0	7,436.7	10,660.1	7,388.0	60.3	63.7	86.28	-3,245.0	-1,232.4	750.1	631.6	118.47	6.331		
10,700.0	7,436.7	10,760.1	7,388.0	62.0	65.3	86.28	-3,344.9	-1,230.3	750.6	628.1	122.44	6.130		
10,800.0	7,436.7	10,860.1	7,388.0	63.7	66.9	86.27	-3,444.9	-1,228.3	749.3	623.0	126.37	5.930		
10,900.0	7,436.7	10,960.1	7,388.0	65.4	68.5	86.26	-3,544.8	-1,226.2	746.3	616.1	130.27	5.729		
11,000.0	7,436.0	11,060.0	7,388.0	67.1	70.1	86.33	-3,644.7	-1,224.1	742.2	608.5	133.79	5.548		
11,100.0	7,433.6	11,159.9	7,388.0	68.8	71.8	86.53	-3,744.6	-1,222.1	738.0	600.7	137.28	5.376		
11,200.0	7,429.4	11,259.7	7,388.0	70.6	73.4	86.88	-3,844.4	-1,220.0	733.7	592.9	140.78	5.212		
11,300.0	7,424.1	11,359.5	7,388.0	72.3	75.0	87.29	-3,944.2	-1,217.9	729.4	585.1	144.26	5.056		
11,400.0	7,418.7	11,459.3	7,388.0	74.0	76.7	87.71	-4,043.9	-1,215.9	725.0	577.3	147.73	4.908		
11,500.0	7,413.2	11,559.0	7,388.0	75.7	78.3	88.12	-4,143.7	-1,213.8	720.8	569.6	151.21	4.767		
11,600.0	7,407.8	11,658.8	7,388.0	77.4	80.0	88.54	-4,243.4	-1,211.7	716.5	561.9	154.67	4.633		
11,700.0	7,402.4	11,758.6	7,388.0	79.1	81.7	88.97	-4,343.1	-1,209.7	712.3	554.2	158.14	4.505		
11,800.0	7,397.0	11,858.3	7,388.0	80.9	83.3	89.40	-4,442.9	-1,207.6	708.2	546.6	161.60	4.382		
11,900.0	7,391.6	11,958.1	7,388.0	82.6	85.0	89.84	-4,542.6	-1,205.6	704.1	539.0	165.05	4.266		
11,965.6	7,388.0	12,016.3	7,388.0	83.7	86.0	90.09	-4,600.8	-1,204.4	701.4	534.2	167.19	4.195 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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	-89.96	0.0	-11.2	11.2					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-11.2	11.2	10.9	0.30	36.798		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-11.2	11.2	10.5	0.65	17.120		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-11.2	11.2	10.2	1.00	11.155 CC, ES		
400.0	400.0	399.8	399.8	0.7	0.7	-89.17	0.2	-12.0	12.0	10.7	1.35	8.905		
500.0	500.0	499.6	499.5	0.9	0.9	-18.44	0.7	-14.6	13.8	12.1	1.70	8.109		
600.0	600.0	599.3	599.2	1.0	1.0	-18.85	1.5	-18.8	15.6	13.5	2.05	7.612		
700.0	699.9	699.0	698.7	1.2	1.2	-20.05	2.7	-24.8	17.5	15.1	2.40	7.283		
800.0	799.7	798.7	798.0	1.4	1.4	-21.78	4.1	-32.5	19.4	16.7	2.75	7.061		
900.0	899.4	898.3	897.2	1.6	1.7	-23.88	6.0	-41.8	21.5	18.4	3.11	6.907		
1,000.0	998.9	997.9	996.2	1.8	1.9	-26.23	8.1	-52.8	23.7	20.2	3.48	6.799		
1,100.0	1,098.3	1,097.4	1,094.9	2.1	2.2	-28.74	10.6	-65.6	26.0	22.1	3.86	6.719		
1,200.0	1,197.4	1,197.0	1,193.3	2.3	2.5	-31.32	13.4	-80.0	28.4	24.2	4.27	6.653		
1,300.0	1,296.3	1,296.4	1,291.4	2.6	2.8	-33.92	16.5	-96.0	31.1	26.4	4.72	6.590		
1,400.0	1,394.9	1,395.9	1,389.2	2.9	3.1	-36.50	19.9	-113.7	33.9	28.7	5.20	6.523		
1,500.0	1,493.3	1,495.3	1,486.6	3.3	3.5	-39.03	23.7	-133.1	36.9	31.2	5.73	6.447		
1,600.0	1,591.2	1,594.7	1,583.7	3.7	3.9	-41.47	27.8	-154.1	40.2	33.9	6.32	6.360		
1,700.0	1,688.9	1,694.0	1,680.3	4.1	4.3	-43.82	32.2	-176.8	43.7	36.7	6.97	6.262		
1,800.0	1,786.3	1,793.9	1,777.2	4.5	4.8	-45.91	36.8	-200.5	47.4	39.7	7.66	6.179		
1,900.0	1,883.7	1,893.8	1,874.1	4.9	5.2	-47.69	41.4	-224.3	51.1	42.7	8.38	6.098		
2,000.0	1,981.2	1,993.7	1,971.1	5.3	5.7	-49.23	46.0	-248.0	54.9	45.8	9.12	6.021		
2,100.0	2,078.6	2,093.6	2,068.0	5.7	6.1	-50.56	50.7	-271.7	58.7	48.9	9.87	5.951		
2,200.0	2,176.1	2,193.5	2,165.0	6.1	6.6	-51.73	55.3	-295.4	62.6	52.0	10.63	5.887		
2,300.0	2,273.5	2,293.4	2,261.9	6.6	7.0	-52.77	59.9	-319.2	66.5	55.1	11.41	5.828		
2,400.0	2,370.9	2,393.4	2,358.9	7.0	7.5	-53.69	64.5	-342.9	70.4	58.2	12.19	5.775		
2,500.0	2,468.4	2,493.3	2,455.8	7.4	7.9	-54.51	69.1	-366.6	74.3	61.3	12.98	5.727		
2,600.0	2,565.8	2,593.2	2,552.8	7.8	8.4	-55.26	73.7	-390.4	78.2	64.5	13.77	5.683		
2,700.0	2,663.2	2,693.1	2,649.7	8.3	8.9	-55.93	78.3	-414.1	82.2	67.6	14.57	5.643		
2,800.0	2,760.7	2,793.0	2,746.7	8.7	9.3	-56.53	82.9	-437.8	86.1	70.8	15.37	5.606		
2,900.0	2,858.2	2,893.0	2,843.6	9.1	9.8	-56.99	87.6	-461.5	90.2	74.1	16.15	5.587		
3,000.0	2,956.0	2,992.8	2,940.5	9.5	10.2	-56.66	92.2	-485.3	95.1	78.3	16.80	5.662		
3,100.0	3,054.1	3,092.6	3,037.4	9.9	10.7	-55.54	96.8	-509.0	101.0	83.7	17.32	5.835		
3,200.0	3,152.6	3,192.3	3,134.1	10.2	11.2	-53.81	101.4	-532.6	108.0	90.3	17.69	6.105		
3,300.0	3,251.4	3,291.9	3,230.7	10.5	11.6	-51.62	106.0	-556.3	116.1	98.2	17.94	6.474		
3,400.0	3,350.4	3,391.3	3,327.2	10.8	12.1	-49.14	110.6	-579.9	125.5	107.5	18.07	6.948		
3,500.0	3,449.7	3,490.5	3,423.5	11.1	12.6	-46.48	115.1	-603.5	136.3	118.2	18.10	7.532		
3,600.0	3,549.1	3,589.5	3,519.5	11.3	13.0	-43.77	119.7	-627.0	148.7	130.6	18.07	8.229		
3,700.0	3,648.7	3,688.3	3,615.3	11.5	13.5	-41.08	124.3	-650.4	162.6	144.6	17.98	9.042		
3,800.0	3,748.5	3,786.7	3,710.9	11.7	13.9	-38.50	128.8	-673.8	178.2	160.3	17.87	9.969		
3,900.0	3,848.4	3,884.9	3,806.1	11.9	14.4	-36.05	133.3	-697.1	195.5	177.7	17.76	11.009		
4,000.0	3,948.3	3,982.7	3,901.0	12.0	14.8	-33.76	137.9	-720.3	214.5	196.9	17.65	12.157		
4,100.0	4,048.3	4,080.1	3,995.5	12.1	15.3	-31.64	142.4	-743.5	235.3	217.8	17.56	13.405		
4,200.0	4,148.3	4,177.2	4,089.7	12.2	15.7	-29.66	146.8	-766.5	257.7	240.2	17.49	14.733		
4,300.0	4,248.3	4,274.2	4,183.9	12.3	16.2	-27.92	151.3	-789.6	280.6	263.1	17.50	16.036		
4,400.0	4,348.3	4,375.0	4,281.8	12.4	16.6	-26.42	155.9	-813.0	303.2	285.6	17.56	17.270		
4,500.0	4,448.3	4,478.0	4,382.2	12.5	17.1	-25.19	160.2	-835.3	324.3	306.7	17.68	18.349		
4,600.0	4,548.3	4,581.8	4,483.8	12.6	17.5	-24.19	164.2	-856.0	343.9	326.0	17.84	19.273		
4,700.0	4,648.3	4,686.3	4,586.5	12.8	17.8	-23.38	167.9	-874.9	361.8	343.7	18.05	20.049		
4,800.0	4,748.3	4,791.5	4,690.2	12.9	18.2	-22.71	171.3	-892.2	378.0	359.7	18.28	20.682		
4,900.0	4,848.3	4,897.3	4,794.9	13.0	18.5	-22.16	174.3	-907.6	392.5	374.0	18.53	21.180		
5,000.0	4,948.3	5,003.6	4,900.3	13.1	18.8	-21.71	176.9	-921.3	405.2	386.4	18.80	21.550		
5,100.0	5,048.3	5,110.5	5,006.5	13.2	19.1	-21.35	179.2	-933.0	416.1	397.0	19.09	21.798		

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

Anticollision Report

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Reference Well:	Devore 1C-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)				
5,200.0	5,148.3	5,217.7	5,113.3	13.3	19.3	-91.06	181.1	-942.8	425.3	405.9	19.39	21.931		
5,300.0	5,248.3	5,325.4	5,220.6	13.5	19.5	-90.83	182.6	-950.7	432.6	412.9	19.70	21.956		
5,400.0	5,348.3	5,433.2	5,328.3	13.6	19.6	-90.67	183.8	-956.7	438.1	418.0	20.02	21.878		
5,500.0	5,448.3	5,541.3	5,436.3	13.7	19.8	-90.57	184.6	-960.6	441.7	421.3	20.35	21.703		
5,600.0	5,548.3	5,649.5	5,544.4	13.8	19.9	-90.52	184.9	-962.5	443.5	422.8	20.69	21.436		
5,700.0	5,648.3	5,753.3	5,648.3	13.9	20.0	-90.51	185.0	-962.7	443.7	422.7	21.03	21.103		
5,800.0	5,748.3	5,853.3	5,748.3	14.1	20.1	-90.51	185.0	-962.7	443.7	422.3	21.36	20.775		
5,900.0	5,848.3	5,953.3	5,848.3	14.2	20.2	-90.51	185.0	-962.7	443.7	422.0	21.69	20.457		
6,000.0	5,948.3	6,053.3	5,948.3	14.3	20.2	-90.51	185.0	-962.7	443.7	421.7	22.02	20.148		
6,100.0	6,048.3	6,153.3	6,048.3	14.4	20.3	-90.51	185.0	-962.7	443.7	421.3	22.35	19.848		
6,200.0	6,148.3	6,253.3	6,148.3	14.6	20.4	-90.51	185.0	-962.7	443.7	421.0	22.69	19.557		
6,300.0	6,248.3	6,353.3	6,248.3	14.7	20.5	-90.51	185.0	-962.7	443.7	420.7	23.02	19.273		
6,400.0	6,348.3	6,453.3	6,348.3	14.8	20.6	-90.51	185.0	-962.7	443.7	420.3	23.36	18.997		
6,500.0	6,448.3	6,553.3	6,448.3	15.0	20.7	-90.51	185.0	-962.7	443.7	420.0	23.69	18.729		
6,600.0	6,548.3	6,653.3	6,548.5	15.1	20.8	-91.37	178.3	-962.6	443.6	419.5	24.09	18.414		
6,611.7	6,559.9	6,665.3	6,559.9	15.1	20.8	-91.59	176.6	-962.5	443.6	419.5	24.15	18.371		
6,700.0	6,648.3	6,750.0	6,642.6	15.2	20.8	-93.89	158.8	-962.0	444.0	419.4	24.65	18.013		
6,800.0	6,748.3	6,840.8	6,728.4	15.4	20.8	82.26	129.0	-961.2	446.6	421.2	25.35	17.613		
6,900.0	6,847.6	6,926.6	6,805.2	15.5	20.8	78.15	91.2	-960.2	451.5	425.5	25.98	17.378		
7,000.0	6,944.5	7,009.5	6,874.7	15.5	20.9	74.33	46.1	-959.0	458.0	431.7	26.34	17.388		
7,100.0	7,036.9	7,090.0	6,936.8	15.5	20.9	70.86	-5.1	-957.6	465.6	439.2	26.45	17.604		
7,200.0	7,123.3	7,168.6	6,991.5	15.6	21.0	67.77	-61.5	-956.0	473.6	447.4	26.21	18.066		
7,300.0	7,201.8	7,250.0	7,041.3	15.7	21.2	64.96	-125.8	-954.3	481.4	455.6	25.82	18.647		
7,400.0	7,270.9	7,321.3	7,078.6	15.9	21.4	62.79	-186.4	-952.6	488.6	463.2	25.44	19.209		
7,500.0	7,329.3	7,400.0	7,112.6	16.2	21.7	60.86	-257.4	-950.7	494.7	469.5	25.26	19.589		
7,600.0	7,375.9	7,469.8	7,136.1	16.7	22.0	59.47	-323.0	-948.9	499.4	473.9	25.53	19.559		
7,700.0	7,409.7	7,543.0	7,153.8	17.4	22.4	58.43	-394.1	-947.0	502.4	475.9	26.44	18.999		
7,800.0	7,430.1	7,615.9	7,164.1	18.2	22.9	57.78	-466.1	-945.0	503.5	475.4	28.08	17.930		
7,900.0	7,436.7	7,691.5	7,167.0	19.1	23.4	57.54	-541.6	-943.0	502.6	472.1	30.40	16.530		
8,000.0	7,436.7	7,791.4	7,167.0	20.2	24.3	57.37	-641.5	-940.3	500.3	467.9	32.36	15.459		
8,100.0	7,436.7	7,891.4	7,167.0	21.3	25.2	57.20	-741.4	-937.6	498.0	463.5	34.45	14.457		
8,200.0	7,436.7	7,991.3	7,167.0	22.6	26.2	57.03	-841.4	-934.8	495.7	459.1	36.64	13.530		
8,300.0	7,436.7	8,091.3	7,167.0	23.9	27.3	56.86	-941.3	-932.1	493.4	454.5	38.91	12.680		
8,400.0	7,436.7	8,191.3	7,167.0	25.2	28.5	56.69	-1,041.2	-929.4	491.1	449.9	41.26	11.904		
8,500.0	7,436.7	8,291.2	7,167.0	26.6	29.7	56.51	-1,141.2	-926.7	488.9	445.2	43.66	11.198		
8,600.0	7,436.7	8,391.2	7,167.0	28.0	31.0	56.34	-1,241.1	-924.0	486.6	440.5	46.10	10.555		
8,700.0	7,436.7	8,491.2	7,167.0	29.5	32.3	56.16	-1,341.0	-921.3	484.3	435.8	48.58	9.970		
8,800.0	7,436.7	8,591.1	7,167.0	31.0	33.7	55.98	-1,440.9	-918.5	482.1	431.0	51.09	9.437		
8,900.0	7,436.7	8,691.1	7,167.0	32.5	35.0	55.80	-1,540.9	-915.8	479.8	426.2	53.61	8.950		
9,000.0	7,436.7	8,791.0	7,167.0	34.1	36.5	55.61	-1,640.8	-913.1	477.6	421.4	56.15	8.505		
9,100.0	7,436.7	8,891.0	7,167.0	35.7	37.9	55.43	-1,740.7	-910.4	475.3	416.6	58.71	8.097		
9,200.0	7,436.7	8,991.0	7,167.0	37.2	39.4	55.24	-1,840.6	-907.7	473.1	411.8	61.27	7.722		
9,300.0	7,436.7	9,090.9	7,167.0	38.8	40.9	55.05	-1,940.6	-904.9	470.9	407.0	63.84	7.376		
9,400.0	7,436.7	9,190.9	7,167.0	40.5	42.4	54.86	-2,040.5	-902.2	468.7	402.2	66.41	7.057		
9,500.0	7,436.7	9,290.9	7,167.0	42.1	44.0	54.67	-2,140.4	-899.5	466.4	397.5	68.97	6.763		
9,600.0	7,436.7	9,390.8	7,167.0	43.7	45.5	54.55	-2,240.4	-896.8	465.0	393.7	71.28	6.523		
9,654.5	7,436.7	9,445.3	7,167.0	44.6	46.4	54.53	-2,294.8	-895.3	464.8	392.2	72.58	6.403		
9,700.0	7,436.7	9,490.8	7,167.0	45.3	47.1	54.55	-2,340.3	-894.1	464.9	391.2	73.68	6.310		
9,800.0	7,436.7	9,590.8	7,167.0	47.0	48.7	54.60	-2,440.3	-891.4	465.6	389.1	76.46	6.089		
9,900.0	7,436.7	9,690.8	7,167.0	48.6	50.3	54.66	-2,540.2	-888.6	466.2	386.9	79.25	5.883		
10,000.0	7,436.7	9,790.8	7,167.0	50.3	51.9	54.71	-2,640.2	-885.9	466.8	384.8	82.05	5.690		
10,100.0	7,436.7	9,890.8	7,167.0	51.9	53.5	54.77	-2,740.2	-883.2	467.4	382.6	84.86	5.509		

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 1C-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 1C-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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
10,200.0	7,436.7	9,990.8	7,167.0	53.6	55.1	54.82	-2,840.1	-880.5	468.1	380.4	87.68	5.338		
10,300.0	7,436.7	10,090.8	7,167.0	55.3	56.7	54.88	-2,940.1	-877.8	468.7	378.2	90.51	5.178		
10,400.0	7,436.7	10,190.8	7,167.0	56.9	58.4	54.93	-3,040.0	-875.1	469.3	376.0	93.36	5.027		
10,500.0	7,436.7	10,290.8	7,167.0	58.6	60.0	54.98	-3,140.0	-872.3	470.0	373.8	96.21	4.885		
10,600.0	7,436.7	10,390.8	7,167.0	60.3	61.7	55.04	-3,240.0	-869.6	470.6	371.5	99.08	4.750		
10,700.0	7,436.7	10,490.8	7,167.0	62.0	63.3	55.03	-3,339.9	-866.9	470.5	368.3	102.21	4.603		
10,800.0	7,436.7	10,590.8	7,167.0	63.7	65.0	54.88	-3,439.9	-864.2	468.9	363.8	105.17	4.459		
10,900.0	7,436.7	10,690.7	7,167.0	65.4	66.6	54.61	-3,539.8	-861.5	466.0	358.0	107.93	4.317		
11,000.0	7,436.0	10,790.6	7,167.0	67.1	68.3	54.37	-3,639.6	-858.7	461.7	351.1	110.63	4.174		
11,100.0	7,433.6	10,890.5	7,167.0	68.8	70.0	54.31	-3,739.4	-856.0	456.5	343.0	113.54	4.020		
11,200.0	7,429.4	10,990.3	7,167.0	70.6	71.7	54.44	-3,839.2	-853.3	450.2	333.5	116.70	3.858		
11,300.0	7,424.1	11,090.0	7,167.0	72.3	73.3	54.66	-3,938.9	-850.6	443.3	323.4	119.84	3.699		
11,400.0	7,418.7	11,189.8	7,167.0	74.0	75.0	54.88	-4,038.6	-847.9	436.3	313.3	122.95	3.548		
11,500.0	7,413.2	11,289.5	7,167.0	75.7	76.7	55.11	-4,138.3	-845.2	429.3	303.2	126.09	3.405		
11,600.0	7,407.8	11,389.2	7,167.0	77.4	78.4	55.35	-4,238.0	-842.5	422.3	293.1	129.26	3.267		
11,700.0	7,402.4	11,489.0	7,167.0	79.1	80.1	55.59	-4,337.7	-839.8	415.4	282.9	132.45	3.136		
11,800.0	7,397.0	11,588.7	7,167.0	80.9	81.8	55.84	-4,437.4	-837.1	408.4	272.7	135.68	3.010		
11,900.0	7,391.6	11,688.5	7,167.0	82.6	83.5	56.10	-4,537.1	-834.3	401.5	262.5	138.93	2.890		
11,965.6	7,388.0	11,748.6	7,167.0	83.7	84.5	56.26	-4,597.2	-832.7	397.0	256.0	140.98	2.816 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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 1D-34H - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance									
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	90.09	0.0	8.4	8.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.09	0.0	8.4	8.4	8.1	0.30	27.599			
200.0	200.0	200.0	200.0	0.3	0.3	90.09	0.0	8.4	8.4	7.7	0.65	12.840			
300.0	300.0	300.0	300.0	0.5	0.5	90.09	0.0	8.4	8.4	7.4	1.00	8.366			
400.0	400.0	400.0	400.0	0.7	0.7	90.09	0.0	8.4	8.4	7.0	1.35	6.204 CC, ES			
500.0	500.0	500.0	500.0	0.9	0.8	161.93	0.0	8.4	9.2	7.5	1.70	5.416			
600.0	600.0	600.1	600.1	1.0	1.0	162.71	0.7	7.8	11.1	9.1	2.05	5.429			
700.0	699.9	700.2	700.2	1.2	1.2	159.91	2.7	6.2	13.6	11.2	2.40	5.649			
800.0	799.7	800.3	800.2	1.4	1.4	155.41	6.1	3.4	16.6	13.8	2.76	6.018			
900.0	899.4	900.4	900.1	1.6	1.6	150.38	10.9	-0.4	20.4	17.2	3.13	6.503			
1,000.0	998.9	1,000.4	999.8	1.8	1.8	145.51	17.0	-5.4	24.9	21.4	3.53	7.069			
1,100.0	1,098.3	1,100.5	1,099.4	2.1	2.0	141.10	24.4	-11.4	30.4	26.4	3.96	7.681			
1,200.0	1,197.4	1,200.4	1,198.7	2.3	2.2	137.24	33.2	-18.5	36.7	32.3	4.42	8.307			
1,300.0	1,296.3	1,300.3	1,297.7	2.6	2.5	133.93	43.4	-26.7	44.0	39.1	4.93	8.922			
1,400.0	1,394.9	1,400.1	1,396.4	2.9	2.8	131.09	54.8	-36.0	52.2	46.7	5.49	9.509			
1,500.0	1,493.3	1,499.8	1,494.8	3.3	3.1	128.66	67.6	-46.4	61.3	55.2	6.10	10.056			
1,600.0	1,591.2	1,599.3	1,592.7	3.7	3.4	127.27	81.0	-57.2	71.5	64.8	6.73	10.619			
1,700.0	1,688.9	1,698.7	1,690.6	4.1	3.7	127.17	94.4	-68.1	82.7	75.3	7.37	11.217			
1,800.0	1,786.3	1,798.0	1,788.4	4.5	4.0	127.59	107.8	-79.0	94.5	86.4	8.02	11.779			
1,900.0	1,883.7	1,897.3	1,886.2	4.9	4.4	127.92	121.2	-89.8	106.2	97.6	8.67	12.248			
2,000.0	1,981.2	1,996.5	1,983.9	5.3	4.7	128.19	134.6	-100.6	118.0	108.7	9.33	12.645			
2,100.0	2,078.6	2,095.5	2,081.6	5.7	5.0	128.91	147.1	-110.8	129.9	120.0	9.95	13.057			
2,200.0	2,176.1	2,194.3	2,179.4	6.1	5.3	130.18	158.3	-119.8	142.1	131.6	10.52	13.512			
2,300.0	2,273.5	2,293.0	2,277.2	6.6	5.6	131.88	168.1	-127.7	154.7	143.7	11.04	14.022			
2,400.0	2,370.9	2,391.3	2,374.9	7.0	5.8	133.89	176.6	-134.6	167.9	156.4	11.50	14.601			
2,500.0	2,468.4	2,489.4	2,472.6	7.4	6.0	136.11	183.7	-140.4	181.6	169.7	11.90	15.260			
2,600.0	2,565.8	2,587.1	2,570.0	7.8	6.2	138.49	189.6	-145.2	196.1	183.8	12.25	16.010			
2,700.0	2,663.2	2,684.4	2,667.1	8.3	6.4	140.96	194.1	-148.8	211.5	198.9	12.54	16.860			
2,800.0	2,760.7	2,781.2	2,763.8	8.7	6.6	143.47	197.4	-151.5	227.8	215.0	12.79	17.814			
2,900.0	2,858.2	2,877.5	2,860.1	9.1	6.7	146.00	199.3	-153.1	245.1	232.1	12.99	18.863			
3,000.0	2,956.0	2,973.5	2,956.1	9.5	6.9	148.39	200.1	-153.6	262.3	249.1	13.17	19.913			
3,100.0	3,054.1	3,071.6	3,054.1	9.9	7.0	150.52	200.1	-153.6	278.8	265.4	13.35	20.884			
3,200.0	3,152.6	3,170.1	3,152.6	10.2	7.1	152.25	200.1	-153.6	294.1	280.5	13.55	21.705			
3,300.0	3,251.4	3,268.8	3,251.4	10.5	7.3	153.66	200.1	-153.6	308.0	294.3	13.77	22.375			
3,400.0	3,350.4	3,367.8	3,350.4	10.8	7.4	154.82	200.1	-153.6	320.6	306.6	14.00	22.898			
3,500.0	3,449.7	3,467.1	3,449.7	11.1	7.5	155.76	200.1	-153.6	331.7	317.4	14.25	23.278			
3,600.0	3,549.1	3,566.5	3,549.1	11.3	7.7	156.52	200.1	-153.6	341.3	326.7	14.51	23.521			
3,700.0	3,648.7	3,666.2	3,648.7	11.5	7.8	157.12	200.1	-153.6	349.3	334.5	14.78	23.637			
3,800.0	3,748.5	3,765.9	3,748.5	11.7	8.0	157.58	200.1	-153.6	355.7	340.7	15.05	23.630			
3,900.0	3,848.4	3,865.8	3,848.4	11.9	8.1	157.92	200.1	-153.6	360.6	345.2	15.34	23.510			
4,000.0	3,948.3	3,965.7	3,948.3	12.0	8.2	158.13	200.1	-153.6	363.8	348.2	15.63	23.282			
4,100.0	4,048.3	4,065.7	4,048.3	12.1	8.4	158.24	200.1	-153.6	365.4	349.5	15.92	22.954			
4,200.0	4,148.3	4,165.7	4,148.3	12.2	8.5	88.26	200.1	-153.6	365.6	349.4	16.23	22.534			
4,300.0	4,248.3	4,265.7	4,248.3	12.3	8.7	88.26	200.1	-153.6	365.6	349.1	16.54	22.106			
4,400.0	4,348.3	4,365.7	4,348.3	12.4	8.8	88.26	200.1	-153.6	365.6	348.8	16.85	21.692			
4,500.0	4,448.3	4,465.7	4,448.3	12.5	9.0	88.26	200.1	-153.6	365.6	348.4	17.17	21.293			
4,600.0	4,548.3	4,565.7	4,548.3	12.6	9.1	88.26	200.1	-153.6	365.6	348.1	17.49	20.906			
4,700.0	4,648.3	4,665.7	4,648.3	12.8	9.3	88.26	200.1	-153.6	365.6	347.8	17.81	20.531			
4,800.0	4,748.3	4,765.7	4,748.3	12.9	9.4	88.26	200.1	-153.6	365.6	347.5	18.13	20.169			
4,900.0	4,848.3	4,865.7	4,848.3	13.0	9.6	88.26	200.1	-153.6	365.6	347.2	18.45	19.818			
5,000.0	4,948.3	4,965.7	4,948.3	13.1	9.8	88.26	200.1	-153.6	365.6	346.8	18.77	19.478			
5,100.0	5,048.3	5,065.7	5,048.3	13.2	9.9	88.26	200.1	-153.6	365.6	346.5	19.09	19.148			

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 1C-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 1C-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 1D-34H - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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
5,200.0	5,148.3	5,165.7	5,148.3	13.3	10.1	88.26	200.1	-153.6	365.6	346.2	19.42	18.829	
5,300.0	5,248.3	5,265.7	5,248.3	13.5	10.2	88.26	200.1	-153.6	365.6	345.9	19.74	18.519	
5,400.0	5,348.3	5,365.7	5,348.3	13.6	10.4	88.26	200.1	-153.6	365.6	345.5	20.07	18.218	
5,500.0	5,448.3	5,465.7	5,448.3	13.7	10.5	88.26	200.1	-153.6	365.6	345.2	20.39	17.927	
5,600.0	5,548.3	5,565.7	5,548.3	13.8	10.7	88.26	200.1	-153.6	365.6	344.9	20.72	17.644	
5,700.0	5,648.3	5,665.7	5,648.3	13.9	10.8	88.26	200.1	-153.6	365.6	344.6	21.05	17.369	
5,800.0	5,748.3	5,765.7	5,748.3	14.1	11.0	88.26	200.1	-153.6	365.6	344.2	21.38	17.102	
5,900.0	5,848.3	5,865.7	5,848.3	14.2	11.2	88.26	200.1	-153.6	365.6	343.9	21.71	16.843	
6,000.0	5,948.3	5,965.7	5,948.3	14.3	11.3	88.26	200.1	-153.6	365.6	343.6	22.04	16.591	
6,100.0	6,048.3	6,065.7	6,048.3	14.4	11.5	88.26	200.1	-153.6	365.6	343.2	22.37	16.346	
6,200.0	6,148.3	6,165.7	6,148.3	14.6	11.6	88.26	200.1	-153.6	365.6	342.9	22.70	16.107	
6,300.0	6,248.3	6,265.7	6,248.3	14.7	11.8	88.26	200.1	-153.6	365.6	342.6	23.03	15.875	
6,400.0	6,348.3	6,365.7	6,348.3	14.8	12.0	88.26	200.1	-153.6	365.6	342.3	23.36	15.650	
6,500.0	6,448.3	6,465.7	6,448.3	15.0	12.1	88.26	200.1	-153.6	365.6	341.9	23.69	15.430	
6,600.0	6,548.3	6,566.6	6,548.9	15.1	12.2	89.31	193.3	-153.6	365.5	341.6	23.91	15.283	
6,628.3	6,576.6	6,594.7	6,576.6	15.1	12.3	90.00	188.9	-153.6	365.4	341.5	23.94	15.264	
6,700.0	6,648.3	6,663.8	6,644.0	15.2	12.3	92.41	173.5	-153.6	365.8	341.8	23.97	15.262	
6,800.0	6,748.3	6,754.4	6,729.4	15.4	12.3	-82.91	143.7	-153.6	368.7	344.7	23.96	15.389	
6,900.0	6,847.6	6,840.4	6,806.4	15.5	12.4	-77.92	105.5	-153.6	374.7	350.8	23.98	15.631	
7,000.0	6,944.5	6,923.5	6,876.0	15.5	12.4	-73.31	60.2	-153.6	383.2	359.1	24.10	15.898	
7,100.0	7,036.9	7,000.0	6,935.0	15.5	12.5	-69.31	11.5	-153.6	393.3	369.0	24.32	16.172	
7,200.0	7,123.3	7,082.9	6,992.7	15.6	12.7	-65.48	-47.9	-153.6	404.1	379.5	24.63	16.409	
7,300.0	7,201.8	7,160.0	7,039.9	15.7	13.0	-62.32	-108.8	-153.6	415.1	390.1	24.96	16.630	
7,400.0	7,270.9	7,235.8	7,079.6	15.9	13.4	-59.68	-173.3	-153.6	425.5	400.1	25.30	16.813	
7,500.0	7,329.3	7,310.5	7,111.9	16.2	13.8	-57.53	-240.7	-153.6	434.8	409.1	25.67	16.933	
7,600.0	7,375.9	7,384.4	7,136.8	16.7	14.4	-55.87	-310.3	-153.6	442.6	416.5	26.10	16.954	
7,700.0	7,409.7	7,457.8	7,154.2	17.4	15.1	-54.66	-381.5	-153.6	448.6	421.9	26.64	16.841	
7,800.0	7,430.1	7,530.7	7,164.3	18.2	15.8	-53.90	-453.7	-153.6	452.5	425.2	27.33	16.559	
7,900.0	7,436.7	7,607.2	7,167.0	19.1	16.7	-53.57	-530.1	-153.6	454.2	425.9	28.27	16.067	
8,000.0	7,436.7	7,707.2	7,167.0	20.2	17.9	-53.57	-630.1	-153.6	454.2	423.9	30.22	15.027	
8,100.0	7,436.7	7,807.2	7,167.0	21.3	19.1	-53.57	-730.1	-153.6	454.2	421.9	32.31	14.057	
8,200.0	7,436.7	7,907.2	7,167.0	22.6	20.5	-53.57	-830.1	-153.6	454.2	419.7	34.50	13.164	
8,300.0	7,436.7	8,007.2	7,167.0	23.9	21.9	-53.57	-930.1	-153.6	454.2	417.4	36.78	12.348	
8,400.0	7,436.7	8,107.2	7,167.0	25.2	23.4	-53.57	-1,030.1	-153.6	454.2	415.0	39.13	11.606	
8,500.0	7,436.7	8,207.2	7,167.0	26.6	24.9	-53.57	-1,130.1	-153.6	454.2	412.6	41.54	10.932	
8,600.0	7,436.7	8,307.2	7,167.0	28.0	26.4	-53.57	-1,230.1	-153.6	454.2	410.2	44.00	10.321	
8,700.0	7,436.7	8,407.2	7,167.0	29.5	28.0	-53.57	-1,330.1	-153.6	454.2	407.7	46.51	9.765	
8,800.0	7,436.7	8,507.2	7,167.0	31.0	29.5	-53.57	-1,430.1	-153.7	454.2	405.1	49.05	9.259	
8,900.0	7,436.7	8,607.2	7,167.0	32.5	31.1	-53.57	-1,530.1	-153.7	454.2	402.5	51.62	8.798	
9,000.0	7,436.7	8,707.2	7,167.0	34.1	32.7	-53.57	-1,630.1	-153.7	454.2	399.9	54.22	8.377	
9,100.0	7,436.7	8,807.2	7,167.0	35.7	34.4	-53.57	-1,730.1	-153.7	454.2	397.3	56.83	7.991	
9,200.0	7,436.7	8,907.2	7,167.0	37.2	36.0	-53.57	-1,830.1	-153.7	454.2	394.7	59.47	7.636	
9,300.0	7,436.7	9,007.2	7,167.0	38.8	37.7	-53.57	-1,930.1	-153.7	454.2	392.0	62.13	7.310	
9,400.0	7,436.7	9,107.2	7,167.0	40.5	39.3	-53.57	-2,030.1	-153.7	454.2	389.4	64.80	7.009	
9,500.0	7,436.7	9,207.2	7,167.0	42.1	41.0	-53.57	-2,130.1	-153.7	454.2	386.7	67.48	6.730	
9,600.0	7,436.7	9,307.2	7,167.0	43.7	42.7	-53.50	-2,230.1	-153.7	453.4	383.5	69.94	6.483	
9,700.0	7,436.7	9,407.1	7,167.0	45.3	44.3	-53.29	-2,330.0	-153.7	451.3	379.0	72.27	6.244	
9,800.0	7,436.7	9,507.1	7,167.0	47.0	46.0	-53.02	-2,430.0	-153.7	448.5	373.7	74.75	6.000	
9,900.0	7,436.7	9,607.0	7,167.0	48.6	47.7	-52.75	-2,529.9	-153.7	445.7	368.5	77.20	5.773	
10,000.0	7,436.7	9,706.9	7,167.0	50.3	49.4	-52.48	-2,629.8	-153.7	442.9	363.3	79.65	5.561	
10,100.0	7,436.7	9,806.9	7,167.0	51.9	51.1	-52.20	-2,729.8	-153.7	440.2	358.1	82.07	5.363	
10,200.0	7,436.7	9,906.8	7,167.0	53.6	52.8	-51.92	-2,829.7	-153.7	437.4	352.9	84.47	5.178	

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 1C-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 1C-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 1D-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						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	7,436.7	10,006.8	7,167.0	55.3	54.5	-51.64	-2,929.7	-153.7	434.7	347.8	86.86	5.004		
10,400.0	7,436.7	10,106.7	7,167.0	56.9	56.2	-51.35	-3,029.6	-153.7	431.9	342.7	89.22	4.841		
10,500.0	7,436.7	10,206.6	7,167.0	58.6	57.9	-51.06	-3,129.5	-153.7	429.2	337.6	91.56	4.688		
10,600.0	7,436.7	10,306.6	7,167.0	60.3	59.6	-50.76	-3,229.5	-153.7	426.5	332.6	93.88	4.543		
10,700.0	7,436.7	10,406.5	7,167.0	62.0	61.3	-50.56	-3,329.4	-153.7	424.5	328.0	96.49	4.400		
10,797.3	7,436.7	10,503.8	7,167.0	63.7	63.0	-50.49	-3,426.7	-153.7	423.9	324.7	99.15	4.275		
10,800.0	7,436.7	10,506.5	7,167.0	63.7	63.1	-50.49	-3,429.4	-153.7	423.9	324.6	99.23	4.271		
10,900.0	7,436.7	10,606.5	7,167.0	65.4	64.8	-50.56	-3,529.4	-153.7	424.6	322.4	102.14	4.157		
11,000.0	7,436.0	10,706.5	7,167.0	67.1	66.5	-50.80	-3,629.4	-153.7	425.7	320.6	105.04	4.053		
11,100.0	7,433.6	10,806.5	7,167.0	68.8	68.2	-51.22	-3,729.4	-153.7	425.7	317.5	108.20	3.935		
11,200.0	7,429.4	10,906.3	7,167.0	70.6	69.9	-51.83	-3,829.3	-153.7	424.7	313.1	111.66	3.804		
11,300.0	7,424.1	11,006.2	7,167.0	72.3	71.7	-52.57	-3,929.1	-153.7	423.0	307.6	115.42	3.665		
11,400.0	7,418.7	11,106.0	7,167.0	74.0	73.4	-53.32	-4,028.9	-153.7	421.4	302.1	119.26	3.533		
11,500.0	7,413.2	11,205.9	7,167.0	75.7	75.1	-54.08	-4,128.8	-153.7	419.8	296.6	123.14	3.409		
11,600.0	7,407.8	11,305.7	7,167.0	77.4	76.8	-54.84	-4,228.6	-153.7	418.2	291.2	127.07	3.292		
11,700.0	7,402.4	11,405.5	7,167.0	79.1	78.6	-55.61	-4,328.4	-153.7	416.8	285.8	131.04	3.181		
11,800.0	7,397.0	11,505.3	7,167.0	80.9	80.3	-56.38	-4,428.3	-153.7	415.4	280.4	135.04	3.076		
11,900.0	7,391.6	11,605.2	7,167.0	82.6	82.0	-57.15	-4,528.1	-153.7	414.1	275.1	139.09	2.978		
11,965.6	7,388.0	11,667.0	7,167.0	83.7	83.1	-57.64	-4,589.9	-153.7	413.3	271.7	141.67	2.918 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	19.6	19.6	19.3	0.30	64.397		
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	19.6	19.6	18.9	0.65	29.960		
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	19.6	19.6	18.6	1.00	19.521		
400.0	400.0	400.0	400.0	0.7	0.7	90.06	0.0	19.6	19.6	18.2	1.35	14.477 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	160.89	0.0	19.6	20.4	18.7	1.70	11.989		
600.0	600.0	600.0	600.0	1.0	1.0	163.03	0.0	19.6	22.9	20.8	2.05	11.163		
700.0	699.9	699.6	699.6	1.2	1.2	164.23	0.6	20.1	27.6	25.2	2.40	11.504		
800.0	799.7	799.0	798.9	1.4	1.4	163.48	2.6	21.8	35.0	32.2	2.75	12.737		
900.0	899.4	898.0	897.9	1.6	1.6	161.89	5.9	24.6	45.1	42.0	3.10	14.554		
1,000.0	998.9	996.6	996.3	1.8	1.7	160.11	10.4	28.5	58.0	54.5	3.46	16.768		
1,100.0	1,098.3	1,094.6	1,094.0	2.1	1.9	158.44	16.2	33.4	73.7	69.8	3.83	19.250		
1,200.0	1,197.4	1,192.0	1,190.9	2.3	2.2	156.97	23.2	39.4	92.1	87.9	4.20	21.906		
1,300.0	1,296.3	1,288.5	1,286.8	2.6	2.4	155.71	31.4	46.3	113.3	108.7	4.59	24.663		
1,400.0	1,394.9	1,384.1	1,381.6	2.9	2.6	154.62	40.8	54.3	137.2	132.2	4.99	27.467		
1,500.0	1,493.3	1,478.7	1,475.2	3.3	2.9	153.69	51.2	63.1	163.8	158.4	5.41	30.274		
1,600.0	1,591.2	1,572.2	1,567.5	3.7	3.2	152.88	62.6	72.9	193.0	187.2	5.84	33.051		
1,700.0	1,688.9	1,666.3	1,660.2	4.1	3.4	152.22	75.0	83.4	224.6	218.4	6.29	35.739		
1,800.0	1,786.3	1,760.9	1,753.4	4.5	3.7	151.93	87.5	94.1	257.1	250.3	6.75	38.090		
1,900.0	1,883.7	1,855.5	1,846.6	4.9	4.0	151.70	100.1	104.7	289.5	282.3	7.22	40.109		
2,000.0	1,981.2	1,950.1	1,939.7	5.3	4.4	151.51	112.6	115.4	321.9	314.2	7.69	41.856		
2,100.0	2,078.6	2,044.7	2,032.9	5.7	4.7	151.36	125.1	126.0	354.3	346.1	8.17	43.380		
2,200.0	2,176.1	2,139.3	2,126.0	6.1	5.0	151.24	137.6	136.7	386.7	378.1	8.65	44.720		
2,300.0	2,273.5	2,238.1	2,223.5	6.6	5.3	151.18	150.3	147.5	418.8	409.6	9.13	45.850		
2,400.0	2,370.9	2,339.0	2,323.1	7.0	5.6	151.28	161.9	157.4	449.6	440.0	9.61	46.776		
2,500.0	2,468.4	2,440.6	2,423.8	7.4	5.9	151.52	172.3	166.2	479.2	469.1	10.08	47.540		
2,600.0	2,565.8	2,543.0	2,525.5	7.8	6.1	151.88	181.3	173.9	507.5	497.0	10.54	48.174		
2,700.0	2,663.2	2,646.1	2,628.1	8.3	6.4	152.33	189.1	180.5	534.6	523.6	10.98	48.702		
2,800.0	2,760.7	2,749.8	2,731.5	8.7	6.6	152.88	195.4	185.9	560.5	549.1	11.40	49.145		
2,900.0	2,858.2	2,854.2	2,835.7	9.1	6.8	153.56	200.4	190.1	584.9	573.1	11.82	49.473		
3,000.0	2,956.0	2,959.4	2,940.8	9.5	7.0	154.28	203.9	193.1	606.8	594.5	12.23	49.630		
3,100.0	3,054.1	3,065.5	3,046.8	9.9	7.1	155.01	206.0	194.9	625.9	613.3	12.61	49.649		
3,200.0	3,152.6	3,171.3	3,152.6	10.2	7.3	155.73	206.6	195.4	642.2	629.2	12.97	49.533		
3,300.0	3,251.4	3,270.0	3,251.4	10.5	7.4	156.34	206.6	195.4	656.5	643.2	13.31	49.342		
3,400.0	3,350.4	3,369.1	3,350.4	10.8	7.5	156.87	206.6	195.4	669.3	655.7	13.64	49.068		
3,500.0	3,449.7	3,468.3	3,449.7	11.1	7.7	157.32	206.6	195.4	680.6	666.6	13.97	48.712		
3,600.0	3,549.1	3,567.8	3,549.1	11.3	7.8	157.69	206.6	195.4	690.2	675.9	14.30	48.277		
3,700.0	3,648.7	3,667.4	3,648.7	11.5	8.0	157.99	206.6	195.4	698.3	683.7	14.62	47.765		
3,800.0	3,748.5	3,767.1	3,748.5	11.7	8.1	158.23	206.6	195.4	704.8	689.8	14.94	47.179		
3,900.0	3,848.4	3,867.0	3,848.4	11.9	8.2	158.40	206.6	195.4	709.6	694.4	15.25	46.523		
4,000.0	3,948.3	3,966.9	3,948.3	12.0	8.4	158.52	206.6	195.4	712.9	697.3	15.57	45.800		
4,100.0	4,048.3	4,066.9	4,048.3	12.1	8.5	158.58	206.6	195.4	714.5	698.6	15.87	45.013		
4,200.0	4,148.3	4,166.9	4,148.3	12.2	8.7	88.58	206.6	195.4	714.7	698.5	16.18	44.162		
4,300.0	4,248.3	4,266.9	4,248.3	12.3	8.8	88.58	206.6	195.4	714.7	698.2	16.50	43.319		
4,400.0	4,348.3	4,366.9	4,348.3	12.4	9.0	88.58	206.6	195.4	714.7	697.9	16.81	42.505		
4,500.0	4,448.3	4,466.9	4,448.3	12.5	9.1	88.58	206.6	195.4	714.7	697.6	17.13	41.718		
4,600.0	4,548.3	4,566.9	4,548.3	12.6	9.3	88.58	206.6	195.4	714.7	697.3	17.45	40.956		
4,700.0	4,648.3	4,666.9	4,648.3	12.8	9.4	88.58	206.6	195.4	714.7	696.9	17.77	40.220		
4,800.0	4,748.3	4,766.9	4,748.3	12.9	9.6	88.58	206.6	195.4	714.7	696.6	18.09	39.506		
4,900.0	4,848.3	4,866.9	4,848.3	13.0	9.7	88.58	206.6	195.4	714.7	696.3	18.41	38.816		
5,000.0	4,948.3	4,966.9	4,948.3	13.1	9.9	88.58	206.6	195.4	714.7	696.0	18.74	38.147		
5,100.0	5,048.3	5,066.9	5,048.3	13.2	10.0	88.58	206.6	195.4	714.7	695.7	19.06	37.499		

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 1C-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 1C-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				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	5,148.3	5,166.9	5,148.3	13.3	10.2	88.58	206.6	195.4	714.7	695.3	19.38	36.871		
5,300.0	5,248.3	5,266.9	5,248.3	13.5	10.3	88.58	206.6	195.4	714.7	695.0	19.71	36.263		
5,400.0	5,348.3	5,366.9	5,348.3	13.6	10.5	88.58	206.6	195.4	714.7	694.7	20.04	35.672		
5,500.0	5,448.3	5,466.9	5,448.3	13.7	10.6	88.58	206.6	195.4	714.7	694.3	20.36	35.099		
5,600.0	5,548.3	5,566.9	5,548.3	13.8	10.8	88.58	206.6	195.4	714.7	694.0	20.69	34.543		
5,700.0	5,648.3	5,666.9	5,648.3	13.9	11.0	88.58	206.6	195.4	714.7	693.7	21.02	34.004		
5,800.0	5,748.3	5,766.9	5,748.3	14.1	11.1	88.58	206.6	195.4	714.7	693.4	21.35	33.480		
5,900.0	5,848.3	5,866.9	5,848.3	14.2	11.3	88.58	206.6	195.4	714.7	693.0	21.68	32.970		
6,000.0	5,948.3	5,966.9	5,948.3	14.3	11.4	88.58	206.6	195.4	714.7	692.7	22.01	32.476		
6,100.0	6,048.3	6,066.9	6,048.3	14.4	11.6	88.58	206.6	195.4	714.7	692.4	22.34	31.995		
6,200.0	6,148.3	6,166.9	6,148.3	14.6	11.7	88.58	206.6	195.4	714.7	692.0	22.67	31.527		
6,300.0	6,248.3	6,266.9	6,248.3	14.7	11.9	88.58	206.6	195.4	714.7	691.7	23.00	31.072		
6,400.0	6,348.3	6,366.9	6,348.3	14.8	12.1	88.58	206.6	195.4	714.7	691.4	23.33	30.629		
6,500.0	6,448.3	6,466.9	6,448.3	15.0	12.2	88.58	206.6	195.4	714.7	691.0	23.67	30.199		
6,600.0	6,548.3	6,566.9	6,548.3	15.1	12.4	88.58	206.6	195.4	714.7	690.7	24.00	29.779		
6,700.0	6,648.3	6,666.9	6,648.3	15.2	12.6	88.58	206.6	195.4	714.7	690.4	24.33	29.371		
6,800.0	6,748.3	6,768.6	6,749.8	15.4	12.7	-91.12	202.4	195.4	714.6	690.0	24.62	29.024		
6,900.0	6,847.6	6,869.8	6,849.3	15.5	12.7	-90.55	184.3	195.4	714.5	689.7	24.78	28.835		
6,993.9	6,938.6	6,963.9	6,938.6	15.5	12.8	-90.01	155.0	195.4	714.5	689.6	24.85	28.749		
7,000.0	6,944.5	6,970.0	6,944.3	15.5	12.8	-89.98	152.7	195.4	714.5	689.6	24.86	28.744		
7,100.0	7,036.9	7,069.2	7,033.2	15.5	12.8	-89.40	108.8	195.4	714.5	689.6	24.93	28.666		
7,200.0	7,123.3	7,167.5	7,114.3	15.6	12.9	-88.84	53.5	195.4	714.6	689.6	25.07	28.504		
7,300.0	7,201.8	7,264.8	7,186.5	15.7	13.0	-88.31	-11.6	195.4	714.8	689.4	25.38	28.162		
7,400.0	7,270.9	7,361.3	7,248.8	15.9	13.3	-87.80	-85.3	195.4	715.0	689.1	25.94	27.564		
7,500.0	7,329.3	7,457.1	7,300.2	16.2	13.7	-87.35	-166.0	195.4	715.3	688.5	26.81	26.683		
7,600.0	7,375.9	7,552.2	7,340.2	16.7	14.3	-86.94	-252.2	195.4	715.5	687.5	28.01	25.547		
7,700.0	7,409.7	7,646.8	7,368.2	17.4	15.1	-86.59	-342.5	195.4	715.8	686.2	29.55	24.225		
7,800.0	7,430.1	7,740.9	7,384.1	18.2	16.0	-86.30	-435.1	195.4	716.0	684.6	31.39	22.813		
7,900.0	7,436.7	7,835.9	7,388.0	19.1	17.0	-86.10	-530.0	195.4	716.2	682.7	33.49	21.388		
8,000.0	7,436.7	7,935.9	7,388.0	20.2	18.2	-86.10	-630.0	195.4	716.2	680.3	35.88	19.961		
8,100.0	7,436.7	8,035.9	7,388.0	21.3	19.5	-86.10	-730.0	195.5	716.2	677.7	38.44	18.632		
8,200.0	7,436.7	8,135.9	7,388.0	22.6	20.8	-86.10	-830.0	195.5	716.2	675.1	41.14	17.410		
8,300.0	7,436.7	8,235.9	7,388.0	23.9	22.2	-86.10	-930.0	195.5	716.2	672.2	43.95	16.296		
8,400.0	7,436.7	8,335.9	7,388.0	25.2	23.6	-86.10	-1,030.0	195.5	716.2	669.3	46.85	15.286		
8,500.0	7,436.7	8,435.9	7,388.0	26.6	25.1	-86.10	-1,130.0	195.5	716.2	666.4	49.84	14.371		
8,600.0	7,436.7	8,535.9	7,388.0	28.0	26.6	-86.10	-1,230.0	195.5	716.2	663.3	52.88	13.544		
8,700.0	7,436.7	8,635.9	7,388.0	29.5	28.2	-86.10	-1,330.0	195.5	716.2	660.2	55.98	12.794		
8,800.0	7,436.7	8,735.9	7,388.0	31.0	29.8	-86.10	-1,430.0	195.5	716.2	657.1	59.12	12.114		
8,900.0	7,436.7	8,835.9	7,388.0	32.5	31.3	-86.10	-1,530.0	195.5	716.2	653.9	62.30	11.496		
9,000.0	7,436.7	8,935.9	7,388.0	34.1	32.9	-86.10	-1,630.0	195.5	716.2	650.7	65.52	10.932		
9,100.0	7,436.7	9,035.9	7,388.0	35.7	34.6	-86.10	-1,730.0	195.5	716.2	647.5	68.76	10.416		
9,200.0	7,436.7	9,135.9	7,388.0	37.2	36.2	-86.10	-1,830.0	195.5	716.2	644.2	72.03	9.944		
9,300.0	7,436.7	9,235.9	7,388.0	38.8	37.8	-86.10	-1,930.0	195.5	716.2	640.9	75.31	9.510		
9,400.0	7,436.7	9,335.9	7,388.0	40.5	39.5	-86.10	-2,030.0	195.5	716.2	637.6	78.62	9.110		
9,500.0	7,436.7	9,435.9	7,388.0	42.1	41.2	-86.10	-2,130.0	195.5	716.2	634.3	81.94	8.741		
9,600.0	7,436.7	9,535.9	7,388.0	43.7	42.8	-86.10	-2,230.0	195.5	715.3	630.2	85.16	8.400		
9,700.0	7,436.7	9,635.9	7,388.0	45.3	44.5	-86.08	-2,330.0	195.5	712.7	624.3	88.38	8.064		
9,800.0	7,436.7	9,735.8	7,388.0	47.0	46.2	-86.06	-2,429.9	195.5	709.2	617.5	91.73	7.731		
9,900.0	7,436.7	9,835.7	7,388.0	48.6	47.9	-86.04	-2,529.9	195.5	705.7	610.6	95.10	7.421		
10,000.0	7,436.7	9,935.7	7,388.0	50.3	49.5	-86.02	-2,629.8	195.5	702.2	603.8	98.47	7.131		
10,100.0	7,436.7	10,035.6	7,388.0	51.9	51.2	-86.00	-2,729.8	195.5	698.8	596.9	101.85	6.861		
10,200.0	7,436.7	10,135.6	7,388.0	53.6	52.9	-85.98	-2,829.7	195.5	695.3	590.0	105.24	6.607		

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 1C-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 1C-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		
10,300.0	7,436.7	10,235.5	7,388.0	55.3	54.6	-85.96	-2,929.6	195.5	691.8	583.2	108.64	6.368		
10,400.0	7,436.7	10,335.4	7,388.0	56.9	56.3	-85.94	-3,029.6	195.5	688.3	576.3	112.04	6.144		
10,500.0	7,436.7	10,435.4	7,388.0	58.6	58.1	-85.92	-3,129.5	195.5	684.8	569.4	115.44	5.932		
10,600.0	7,436.7	10,535.3	7,388.0	60.3	59.8	-85.90	-3,229.5	195.5	681.4	562.5	118.86	5.733		
10,700.0	7,436.7	10,635.3	7,388.0	62.0	61.5	-85.89	-3,329.4	195.6	678.8	556.4	122.42	5.545		
10,797.0	7,436.7	10,732.2	7,388.0	63.7	63.1	-85.88	-3,426.4	195.6	678.0	552.1	125.84	5.388		
10,800.0	7,436.7	10,735.3	7,388.0	63.7	63.2	-85.88	-3,429.4	195.6	678.0	552.0	125.95	5.383		
10,900.0	7,436.7	10,835.3	7,388.0	65.4	64.9	-85.89	-3,529.4	195.6	678.9	549.5	129.45	5.244		
11,000.0	7,436.0	10,935.2	7,388.0	67.1	66.6	-85.94	-3,629.4	195.6	680.9	548.0	132.90	5.123		
11,100.0	7,433.6	11,035.2	7,388.0	68.8	68.3	-86.13	-3,729.3	195.6	682.7	546.3	136.36	5.007		
11,200.0	7,429.4	11,135.1	7,388.0	70.6	70.1	-86.47	-3,829.2	195.6	684.4	544.6	139.85	4.894		
11,300.0	7,424.1	11,234.9	7,388.0	72.3	71.8	-86.93	-3,929.1	195.6	686.2	542.8	143.35	4.787		
11,400.0	7,418.7	11,334.8	7,388.0	74.0	73.5	-87.39	-4,028.9	195.6	687.9	541.0	146.85	4.684		
11,500.0	7,413.2	11,434.6	7,388.0	75.7	75.2	-87.84	-4,128.7	195.6	689.7	539.3	150.35	4.587		
11,600.0	7,407.8	11,534.4	7,388.0	77.4	77.0	-88.30	-4,228.6	195.6	691.5	537.7	153.84	4.495		
11,700.0	7,402.4	11,634.3	7,388.0	79.1	78.7	-88.75	-4,328.4	195.6	693.4	536.1	157.32	4.407		
11,800.0	7,397.0	11,734.1	7,388.0	80.9	80.4	-89.20	-4,428.2	195.6	695.3	534.5	160.80	4.324		
11,900.0	7,391.6	11,833.9	7,388.0	82.6	82.1	-89.65	-4,528.1	195.6	697.3	533.0	164.28	4.245		
11,965.6	7,388.0	11,892.2	7,388.0	83.7	83.2	-89.91	-4,586.3	195.6	698.6	532.2	166.42	4.198 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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		
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		
400.0	400.0	400.0	400.0	0.7	0.7	90.05	0.0	30.7	30.7	29.4	1.35	22.749 CC, ES		
500.0	500.0	499.5	499.5	0.9	0.8	160.00	0.3	31.5	32.4	30.7	1.70	19.044		
600.0	600.0	598.8	598.8	1.0	1.0	159.86	1.3	33.9	37.2	35.2	2.05	18.185		
700.0	699.9	697.8	697.7	1.2	1.2	159.69	2.9	37.9	45.3	42.9	2.40	18.923		
800.0	799.7	796.3	796.0	1.4	1.4	159.53	5.1	43.4	56.7	53.9	2.75	20.642		
900.0	899.4	894.3	893.7	1.6	1.6	159.39	8.0	50.5	71.2	68.1	3.10	22.998		
1,000.0	998.9	991.4	990.4	1.8	1.8	159.26	11.4	59.0	88.9	85.5	3.45	25.782		
1,100.0	1,098.3	1,087.7	1,086.0	2.1	2.1	159.16	15.4	68.9	109.8	106.0	3.80	28.860		
1,200.0	1,197.4	1,182.9	1,180.4	2.3	2.3	159.06	20.0	80.2	133.7	129.6	4.16	32.139		
1,300.0	1,296.3	1,276.9	1,273.5	2.6	2.6	158.97	25.1	92.8	160.7	156.2	4.52	35.556		
1,400.0	1,394.9	1,369.6	1,365.0	2.9	2.9	158.87	30.6	106.6	190.8	185.9	4.88	39.061		
1,500.0	1,493.3	1,463.2	1,457.2	3.3	3.2	158.82	36.7	121.6	223.5	218.2	5.25	42.539		
1,600.0	1,591.2	1,557.1	1,549.7	3.7	3.5	158.88	42.8	136.7	257.8	252.1	5.63	45.810		
1,700.0	1,688.9	1,650.5	1,641.6	4.1	3.8	159.02	48.9	151.8	293.6	287.6	6.00	48.906		
1,800.0	1,786.3	1,743.5	1,733.2	4.5	4.1	159.29	54.9	166.7	330.2	323.8	6.39	51.645		
1,900.0	1,883.7	1,836.6	1,824.9	4.9	4.4	159.51	61.0	181.7	366.8	360.0	6.79	54.053		
2,000.0	1,981.2	1,929.6	1,916.5	5.3	4.7	159.69	67.0	196.7	403.4	396.2	7.18	56.186		
2,100.0	2,078.6	2,022.7	2,008.2	5.7	5.0	159.85	73.1	211.7	440.0	432.4	7.57	58.086		
2,200.0	2,176.1	2,115.7	2,099.8	6.1	5.3	159.97	79.1	226.7	476.6	468.6	7.97	59.790		
2,300.0	2,273.5	2,208.8	2,191.4	6.6	5.7	160.08	85.2	241.7	513.2	504.8	8.37	61.325		
2,400.0	2,370.9	2,301.8	2,283.1	7.0	6.0	160.18	91.2	256.6	549.8	541.1	8.77	62.715		
2,500.0	2,468.4	2,394.9	2,374.7	7.4	6.3	160.26	97.3	271.6	586.4	577.3	9.17	63.979		
2,600.0	2,565.8	2,488.0	2,466.4	7.8	6.6	160.33	103.3	286.6	623.0	613.5	9.57	65.133		
2,700.0	2,663.2	2,581.0	2,558.0	8.3	6.9	160.40	109.4	301.6	659.7	649.7	9.97	66.191		
2,800.0	2,760.7	2,674.1	2,649.6	8.7	7.3	160.45	115.5	316.6	696.3	685.9	10.37	67.164		
2,900.0	2,858.2	2,767.2	2,741.3	9.1	7.6	160.57	121.5	331.6	732.7	721.9	10.78	67.980		
3,000.0	2,956.0	2,860.8	2,833.6	9.5	7.9	160.69	127.6	346.6	767.8	756.6	11.20	68.572		
3,100.0	3,054.1	2,955.0	2,926.3	9.9	8.2	160.77	133.7	361.8	801.3	789.7	11.61	69.007		
3,200.0	3,152.6	3,049.8	3,019.6	10.2	8.6	160.80	139.9	377.1	833.3	821.3	12.02	69.301		
3,300.0	3,251.4	3,145.0	3,113.5	10.5	8.9	160.78	146.1	392.4	863.7	851.3	12.43	69.471		
3,400.0	3,350.4	3,240.8	3,207.7	10.8	9.2	160.74	152.3	407.8	892.5	879.7	12.84	69.530		
3,500.0	3,449.7	3,336.9	3,302.4	11.1	9.6	160.66	158.6	423.3	919.8	906.6	13.24	69.490		
3,600.0	3,549.1	3,433.5	3,397.6	11.3	9.9	160.54	164.9	438.8	945.5	931.9	13.63	69.361		
3,700.0	3,648.7	3,530.5	3,493.1	11.5	10.3	160.40	171.2	454.5	969.6	955.6	14.02	69.152		
3,800.0	3,748.5	3,631.2	3,592.3	11.7	10.6	160.22	177.7	470.6	992.1	977.7	14.41	68.840		
3,900.0	3,848.4	3,748.2	3,707.7	11.9	11.0	160.00	184.7	488.0	1,011.8	996.9	14.82	68.265		
4,000.0	3,948.3	3,866.3	3,824.6	12.0	11.3	159.78	190.9	503.3	1,028.0	1,012.8	15.22	67.545		
4,100.0	4,048.3	3,985.4	3,942.9	12.1	11.6	159.57	196.2	516.4	1,040.7	1,025.1	15.61	66.688		
4,200.0	4,148.3	4,105.3	4,062.2	12.2	11.9	89.36	200.6	527.4	1,050.0	1,034.1	15.98	65.705		
4,300.0	4,248.3	4,225.6	4,182.2	12.3	12.1	89.18	204.1	536.0	1,057.3	1,040.9	16.35	64.660		
4,400.0	4,348.3	4,346.3	4,302.6	12.4	12.4	89.04	206.7	542.3	1,062.5	1,045.8	16.72	63.565		
4,500.0	4,448.3	4,467.2	4,423.5	12.5	12.5	88.96	208.3	546.3	1,065.9	1,048.8	17.08	62.420		
4,600.0	4,548.3	4,588.2	4,544.5	12.6	12.7	88.93	208.9	547.9	1,067.2	1,049.8	17.43	61.228		
4,700.0	4,648.3	4,692.0	4,648.3	12.8	12.8	88.93	208.9	548.0	1,067.2	1,049.5	17.76	60.103		
4,800.0	4,748.3	4,792.0	4,748.3	12.9	12.9	88.93	208.9	548.0	1,067.2	1,049.2	18.08	59.032		
4,900.0	4,848.3	4,892.0	4,848.3	13.0	13.0	88.93	208.9	548.0	1,067.2	1,048.8	18.40	57.997		
5,000.0	4,948.3	4,992.0	4,948.3	13.1	13.1	88.93	208.9	548.0	1,067.2	1,048.5	18.73	56.994		
5,100.0	5,048.3	5,092.0	5,048.3	13.2	13.2	88.93	208.9	548.0	1,067.2	1,048.2	19.05	56.023		

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 1C-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 1C-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				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	5,148.3	5,192.0	5,148.3	13.3	13.4	88.93	208.9	548.0	1,067.2	1,047.9	19.38	55.081		
5,300.0	5,248.3	5,292.0	5,248.3	13.5	13.5	88.93	208.9	548.0	1,067.2	1,047.5	19.70	54.169		
5,400.0	5,348.3	5,392.0	5,348.3	13.6	13.6	88.93	208.9	548.0	1,067.2	1,047.2	20.03	53.284		
5,500.0	5,448.3	5,492.0	5,448.3	13.7	13.7	88.93	208.9	548.0	1,067.2	1,046.9	20.36	52.426		
5,600.0	5,548.3	5,592.0	5,548.3	13.8	13.8	88.93	208.9	548.0	1,067.2	1,046.5	20.69	51.593		
5,700.0	5,648.3	5,692.0	5,648.3	13.9	14.0	88.93	208.9	548.0	1,067.2	1,046.2	21.01	50.785		
5,800.0	5,748.3	5,792.0	5,748.3	14.1	14.1	88.93	208.9	548.0	1,067.2	1,045.9	21.34	50.001		
5,900.0	5,848.3	5,892.0	5,848.3	14.2	14.2	88.93	208.9	548.0	1,067.2	1,045.6	21.67	49.238		
6,000.0	5,948.3	5,992.0	5,948.3	14.3	14.3	88.93	208.9	548.0	1,067.2	1,045.2	22.01	48.498		
6,100.0	6,048.3	6,092.0	6,048.3	14.4	14.5	88.93	208.9	548.0	1,067.2	1,044.9	22.34	47.778		
6,200.0	6,148.3	6,192.0	6,148.3	14.6	14.6	88.93	208.9	548.0	1,067.2	1,044.6	22.67	47.078		
6,300.0	6,248.3	6,292.0	6,248.3	14.7	14.7	88.93	208.9	548.0	1,067.2	1,044.2	23.00	46.397		
6,400.0	6,348.3	6,392.0	6,348.3	14.8	14.9	88.93	208.9	548.0	1,067.2	1,043.9	23.34	45.735		
6,500.0	6,448.3	6,492.0	6,448.3	15.0	15.0	88.93	208.9	548.0	1,067.2	1,043.6	23.67	45.091		
6,600.0	6,548.3	6,594.1	6,550.1	15.1	15.1	89.25	203.0	548.0	1,067.1	1,043.2	23.96	44.539		
6,677.9	6,626.2	6,671.5	6,626.2	15.2	15.1	90.00	188.9	548.0	1,067.0	1,042.9	24.14	44.204		
6,700.0	6,648.3	6,692.8	6,646.8	15.2	15.1	90.29	183.6	548.0	1,067.1	1,042.9	24.18	44.122		
6,800.0	6,748.3	6,784.8	6,733.8	15.4	15.1	-88.11	153.6	548.0	1,067.7	1,043.3	24.36	43.832		
6,900.0	6,847.6	6,872.2	6,812.1	15.5	15.2	-86.37	115.2	548.0	1,069.4	1,045.0	24.47	43.713		
7,000.0	6,944.5	6,956.5	6,882.8	15.5	15.2	-84.71	69.2	548.0	1,072.1	1,047.5	24.55	43.671		
7,100.0	7,036.9	7,038.2	6,945.7	15.5	15.3	-83.14	17.1	548.0	1,075.4	1,050.7	24.67	43.599		
7,200.0	7,123.3	7,118.0	7,000.9	15.6	15.4	-81.69	-40.4	547.9	1,079.2	1,054.3	24.89	43.352		
7,300.0	7,201.8	7,200.0	7,050.7	15.7	15.7	-80.32	-105.5	547.9	1,083.1	1,057.9	25.27	42.863		
7,400.0	7,270.9	7,272.5	7,088.3	15.9	15.9	-79.21	-167.5	547.9	1,087.0	1,061.2	25.84	42.064		
7,500.0	7,329.3	7,350.0	7,121.3	16.2	16.3	-78.20	-237.6	547.9	1,090.6	1,064.0	26.67	40.898		
7,600.0	7,375.9	7,422.6	7,145.2	16.7	16.8	-77.41	-306.1	547.9	1,093.8	1,066.0	27.75	39.420		
7,700.0	7,409.7	7,500.0	7,162.9	17.4	17.4	-76.77	-381.4	547.9	1,096.3	1,067.2	29.12	37.644		
7,800.0	7,430.1	7,570.0	7,171.8	18.2	18.0	-76.37	-450.8	547.9	1,098.0	1,067.3	30.70	35.765		
7,900.0	7,436.7	7,649.4	7,174.0	19.1	18.8	-76.17	-530.1	547.9	1,098.9	1,066.3	32.60	33.712		
8,000.0	7,436.7	7,749.4	7,174.0	20.2	19.9	-76.17	-630.1	547.9	1,098.8	1,063.9	34.94	31.450		
8,100.0	7,436.7	7,849.4	7,174.0	21.3	21.0	-76.17	-730.1	547.9	1,098.8	1,061.4	37.44	29.348		
8,200.0	7,436.7	7,949.4	7,174.0	22.6	22.3	-76.17	-830.1	547.9	1,098.8	1,058.8	40.08	27.418		
8,300.0	7,436.7	8,049.4	7,174.0	23.9	23.6	-76.17	-930.1	547.9	1,098.8	1,056.0	42.82	25.660		
8,400.0	7,436.7	8,149.4	7,174.0	25.2	24.9	-76.17	-1,030.1	547.9	1,098.8	1,053.2	45.66	24.067		
8,500.0	7,436.7	8,249.4	7,174.0	26.6	26.4	-76.17	-1,130.1	547.9	1,098.8	1,050.3	48.56	22.626		
8,600.0	7,436.7	8,349.4	7,174.0	28.0	27.8	-76.17	-1,230.1	547.9	1,098.8	1,047.3	51.53	21.322		
8,700.0	7,436.7	8,449.4	7,174.0	29.5	29.3	-76.17	-1,330.1	547.9	1,098.8	1,044.3	54.56	20.141		
8,800.0	7,436.7	8,549.4	7,174.0	31.0	30.8	-76.17	-1,430.1	547.9	1,098.8	1,041.2	57.62	19.070		
8,900.0	7,436.7	8,649.4	7,174.0	32.5	32.3	-76.17	-1,530.1	547.9	1,098.8	1,038.1	60.72	18.096		
9,000.0	7,436.7	8,749.4	7,174.0	34.1	33.9	-76.17	-1,630.1	547.9	1,098.8	1,034.9	63.85	17.208		
9,100.0	7,436.7	8,849.4	7,174.0	35.7	35.5	-76.17	-1,730.1	547.9	1,098.8	1,031.8	67.01	16.397		
9,200.0	7,436.7	8,949.4	7,174.0	37.2	37.1	-76.17	-1,830.1	547.8	1,098.8	1,028.6	70.19	15.654		
9,300.0	7,436.7	9,049.4	7,174.0	38.8	38.7	-76.17	-1,930.1	547.8	1,098.8	1,025.4	73.40	14.971		
9,400.0	7,436.7	9,149.4	7,174.0	40.5	40.3	-76.17	-2,030.1	547.8	1,098.8	1,022.2	76.62	14.341		
9,500.0	7,436.7	9,249.4	7,174.0	42.1	41.9	-76.17	-2,130.1	547.8	1,098.8	1,018.9	79.85	13.760		
9,600.0	7,436.7	9,349.4	7,174.0	43.7	43.5	-76.16	-2,230.1	547.8	1,097.9	1,014.8	83.08	13.215		
9,700.0	7,436.7	9,449.4	7,174.0	45.3	45.2	-76.12	-2,330.1	547.8	1,095.3	1,009.0	86.29	12.693		
9,800.0	7,436.7	9,549.3	7,174.0	47.0	46.8	-76.07	-2,430.0	547.8	1,091.9	1,002.3	89.54	12.194		
9,900.0	7,436.7	9,649.2	7,174.0	48.6	48.5	-76.03	-2,530.0	547.8	1,088.5	995.7	92.80	11.729		
10,000.0	7,436.7	9,749.2	7,174.0	50.3	50.2	-75.98	-2,629.9	547.8	1,085.1	989.0	96.07	11.295		
10,100.0	7,436.7	9,849.1	7,174.0	51.9	51.8	-75.94	-2,729.8	547.8	1,081.7	982.4	99.35	10.888		
10,200.0	7,436.7	9,949.0	7,174.0	53.6	53.5	-75.89	-2,829.8	547.8	1,078.3	975.7	102.63	10.507		

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 1C-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 1C-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	7,436.7	10,049.0	7,174.0	55.3	55.2	-75.85	-2,929.7	547.8	1,074.9	969.0	105.92	10.149		
10,400.0	7,436.7	10,148.9	7,174.0	56.9	56.9	-75.80	-3,029.7	547.8	1,071.5	962.3	109.21	9.812		
10,500.0	7,436.7	10,248.9	7,174.0	58.6	58.6	-75.76	-3,129.6	547.8	1,068.1	955.6	112.50	9.494		
10,600.0	7,436.7	10,348.8	7,174.0	60.3	60.3	-75.71	-3,229.5	547.8	1,064.8	949.0	115.80	9.195		
10,700.0	7,436.7	10,448.8	7,174.0	62.0	62.0	-75.68	-3,329.5	547.8	1,062.3	943.1	119.16	8.915		
10,797.5	7,436.7	10,546.3	7,174.0	63.7	63.6	-75.67	-3,427.0	547.8	1,061.5	939.0	122.42	8.671		
10,800.0	7,436.7	10,548.8	7,174.0	63.7	63.7	-75.67	-3,429.5	547.8	1,061.5	939.0	122.50	8.665		
10,900.0	7,436.7	10,648.8	7,174.0	65.4	65.4	-75.68	-3,529.5	547.7	1,062.3	936.5	125.81	8.444		
11,000.0	7,436.0	10,748.7	7,174.0	67.1	67.1	-75.73	-3,629.5	547.7	1,064.1	934.9	129.18	8.237		
11,100.0	7,433.6	10,848.7	7,174.0	68.8	68.8	-75.87	-3,729.4	547.7	1,065.5	932.8	132.61	8.035		
11,200.0	7,429.4	10,948.6	7,174.0	70.6	70.5	-76.10	-3,829.3	547.7	1,066.4	930.3	136.09	7.836		
11,300.0	7,424.1	11,048.4	7,174.0	72.3	72.2	-76.40	-3,929.1	547.7	1,067.1	927.5	139.61	7.643		
11,400.0	7,418.7	11,148.2	7,174.0	74.0	73.9	-76.71	-4,029.0	547.7	1,067.8	924.6	143.14	7.460		
11,500.0	7,413.2	11,248.1	7,174.0	75.7	75.6	-77.02	-4,128.8	547.7	1,068.5	921.8	146.67	7.285		
11,600.0	7,407.8	11,347.9	7,174.0	77.4	77.4	-77.33	-4,228.6	547.7	1,069.2	919.0	150.21	7.118		
11,700.0	7,402.4	11,447.7	7,174.0	79.1	79.1	-77.63	-4,328.5	547.7	1,070.0	916.3	153.75	6.959		
11,800.0	7,397.0	11,547.6	7,174.0	80.9	80.8	-77.94	-4,428.3	547.7	1,070.8	913.5	157.30	6.807		
11,900.0	7,391.6	11,647.4	7,174.0	82.6	82.5	-78.24	-4,528.1	547.7	1,071.7	910.8	160.86	6.662		
11,965.6	7,388.0	11,701.9	7,174.0	83.7	83.5	-78.41	-4,582.6	547.7	1,072.3	909.3	162.99	6.579 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	39.1	39.1					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	39.1	39.1	38.8	0.30	128.795		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	39.1	39.1	38.5	0.65	59.920		
300.0	300.0	300.0	300.0	0.5	0.5	90.05	0.0	39.1	39.1	38.1	1.00	39.042 CC, ES		
400.0	400.0	399.3	399.3	0.7	0.7	89.75	0.2	39.9	40.0	38.6	1.35	29.586		
500.0	500.0	498.6	498.5	0.9	0.9	159.30	0.8	42.4	43.3	41.6	1.70	25.503		
600.0	600.0	597.6	597.4	1.0	1.0	159.16	1.9	46.6	49.9	47.9	2.05	24.419 SF		
700.0	699.9	696.2	695.8	1.2	1.2	159.25	3.4	52.4	59.9	57.5	2.39	25.028		
800.0	799.7	794.2	793.6	1.4	1.4	159.45	5.3	59.7	73.1	70.4	2.74	26.677		
900.0	899.4	891.5	890.4	1.6	1.7	159.70	7.5	68.7	89.6	86.5	3.09	29.005		
1,000.0	998.9	987.9	986.2	1.8	1.9	159.93	10.2	79.1	109.3	105.9	3.44	31.794		
1,100.0	1,098.3	1,083.3	1,080.8	2.1	2.1	160.14	13.3	90.9	132.2	128.4	3.79	34.907		
1,200.0	1,197.4	1,177.5	1,174.1	2.3	2.4	160.31	16.6	104.1	158.2	154.1	4.14	38.248		
1,300.0	1,296.3	1,270.5	1,265.8	2.6	2.7	160.45	20.4	118.5	187.3	182.9	4.49	41.751		
1,400.0	1,394.9	1,362.0	1,356.0	2.9	3.0	160.56	24.4	134.2	219.5	214.7	4.84	45.368		
1,500.0	1,493.3	1,452.1	1,444.3	3.3	3.3	160.64	28.7	150.9	254.7	249.5	5.19	49.062		
1,600.0	1,591.2	1,542.4	1,532.7	3.7	3.7	160.71	33.3	168.9	292.6	287.1	5.55	52.753		
1,700.0	1,688.9	1,634.2	1,622.5	4.1	4.0	160.82	38.0	187.4	332.3	326.4	5.91	56.240		
1,800.0	1,786.3	1,725.7	1,712.0	4.5	4.4	161.07	42.8	205.8	372.8	366.5	6.29	59.309		
1,900.0	1,883.7	1,817.1	1,801.4	4.9	4.8	161.27	47.5	224.2	413.2	406.5	6.66	62.018		
2,000.0	1,981.2	1,908.6	1,890.9	5.3	5.1	161.44	52.2	242.7	453.6	446.6	7.04	64.423		
2,100.0	2,078.6	2,000.0	1,980.3	5.7	5.5	161.58	57.0	261.1	494.1	486.7	7.42	66.572		
2,200.0	2,176.1	2,091.5	2,069.8	6.1	5.8	161.69	61.7	279.5	534.5	526.7	7.80	68.503		
2,300.0	2,273.5	2,182.9	2,159.2	6.6	6.2	161.79	66.4	297.9	575.0	566.8	8.19	70.247		
2,400.0	2,370.9	2,274.4	2,248.7	7.0	6.6	161.88	71.1	316.3	615.5	606.9	8.57	71.829		
2,500.0	2,468.4	2,365.8	2,338.1	7.4	6.9	161.96	75.9	334.7	655.9	647.0	8.95	73.270		
2,600.0	2,565.8	2,457.2	2,427.6	7.8	7.3	162.03	80.6	353.2	696.4	687.0	9.34	74.588		
2,700.0	2,663.2	2,548.7	2,517.0	8.3	7.7	162.09	85.3	371.6	736.8	727.1	9.72	75.799		
2,800.0	2,760.7	2,640.1	2,606.5	8.7	8.0	162.14	90.1	390.0	777.3	767.2	10.11	76.914		
2,900.0	2,858.2	2,731.7	2,696.0	9.1	8.4	162.25	94.8	408.4	817.5	807.0	10.50	77.842		
3,000.0	2,956.0	2,823.8	2,786.1	9.5	8.8	162.38	99.5	427.0	856.5	845.6	10.91	78.517		
3,100.0	3,054.1	2,916.5	2,876.8	9.9	9.2	162.47	104.3	445.6	893.9	882.6	11.31	79.026		
3,200.0	3,152.6	3,009.9	2,968.1	10.2	9.5	162.53	109.2	464.4	929.7	918.0	11.71	79.386		
3,300.0	3,251.4	3,103.8	3,060.0	10.5	9.9	162.54	114.0	483.4	964.0	951.9	12.11	79.616		
3,400.0	3,350.4	3,198.3	3,152.4	10.8	10.3	162.53	118.9	502.4	996.7	984.2	12.50	79.727		
3,500.0	3,449.7	3,293.3	3,245.3	11.1	10.7	162.49	123.8	521.5	1,027.9	1,015.0	12.89	79.734		
3,600.0	3,549.1	3,388.8	3,338.7	11.3	11.1	162.42	128.8	540.7	1,057.4	1,044.2	13.28	79.646		
3,700.0	3,648.7	3,484.7	3,432.6	11.5	11.5	162.32	133.7	560.1	1,085.4	1,071.8	13.66	79.474		
3,800.0	3,748.5	3,581.1	3,526.9	11.7	11.9	162.20	138.7	579.5	1,111.8	1,097.8	14.03	79.226		
3,900.0	3,848.4	3,677.9	3,621.5	11.9	12.3	162.06	143.7	599.0	1,136.6	1,122.2	14.40	78.910		
4,000.0	3,948.3	3,775.0	3,716.6	12.0	12.6	161.89	148.7	618.5	1,159.8	1,145.1	14.77	78.532		
4,100.0	4,048.3	3,872.5	3,811.9	12.1	13.0	161.70	153.8	638.2	1,181.4	1,166.3	15.13	78.098		
4,200.0	4,148.3	3,970.3	3,907.6	12.2	13.4	91.47	158.8	657.9	1,201.7	1,186.2	15.48	77.621		
4,300.0	4,248.3	4,068.1	4,003.2	12.3	13.8	91.20	163.9	677.6	1,221.7	1,205.9	15.83	77.166		
4,400.0	4,348.3	4,165.9	4,098.9	12.4	14.2	90.94	168.9	697.2	1,241.8	1,225.6	16.18	76.737		
4,500.0	4,448.3	4,263.7	4,194.6	12.5	14.6	90.69	174.0	716.9	1,261.9	1,245.3	16.53	76.332		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
0.0	0.0	0.0	0.0	0.0	0.0	90.05	0.0	50.3	50.3					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	50.3	50.3	50.0	0.30	165.593		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	50.3	50.3	49.6	0.65	77.041 CC, ES		
300.0	300.0	299.1	299.1	0.5	0.5	89.88	0.1	51.1	51.1	50.1	1.00	51.078		
400.0	400.0	398.2	398.2	0.7	0.7	89.38	0.6	53.7	53.7	52.3	1.35	39.666		
500.0	500.0	497.1	497.0	0.9	0.9	158.94	1.4	57.9	58.8	57.1	1.70	34.666		
600.0	600.0	595.7	595.4	1.0	1.1	158.87	2.4	63.7	67.2	65.1	2.04	32.890 SF		
700.0	699.9	693.8	693.2	1.2	1.3	159.05	3.8	71.2	78.9	76.5	2.39	33.019		
800.0	799.7	791.2	790.2	1.4	1.5	159.36	5.5	80.3	93.9	91.1	2.73	34.319		
900.0	899.4	887.8	886.2	1.6	1.7	159.72	7.5	90.8	112.1	109.0	3.08	36.387		
1,000.0	998.9	983.5	981.0	1.8	2.0	160.07	9.7	102.9	133.6	130.1	3.43	38.981		
1,100.0	1,098.3	1,078.0	1,074.6	2.1	2.3	160.39	12.2	116.3	158.2	154.5	3.77	41.947		
1,200.0	1,197.4	1,171.3	1,166.7	2.3	2.6	160.68	14.9	131.0	186.0	181.9	4.12	45.180		
1,300.0	1,296.3	1,263.2	1,257.1	2.6	2.9	160.92	17.9	147.0	217.0	212.5	4.46	48.608		
1,400.0	1,394.9	1,353.7	1,345.9	2.9	3.2	161.12	21.0	164.1	250.9	246.1	4.81	52.178		
1,500.0	1,493.3	1,442.5	1,432.8	3.3	3.6	161.29	24.4	182.2	287.8	282.7	5.15	55.849		
1,600.0	1,591.2	1,529.7	1,517.8	3.7	3.9	161.42	27.9	201.3	327.7	322.2	5.50	59.593		
1,700.0	1,688.9	1,615.0	1,600.7	4.1	4.3	161.52	31.6	221.2	370.4	364.5	5.84	63.385		
1,800.0	1,786.3	1,700.0	1,682.9	4.5	4.7	161.71	35.5	242.2	415.1	408.9	6.20	66.917		
1,900.0	1,883.7	1,787.9	1,767.8	4.9	5.1	161.85	39.7	264.6	460.5	453.9	6.57	70.088		
2,000.0	1,981.2	1,877.0	1,853.9	5.3	5.6	161.97	43.9	287.3	505.9	498.9	6.94	72.886		
2,100.0	2,078.6	1,966.1	1,939.9	5.7	6.0	162.07	48.1	310.0	551.3	543.9	7.31	75.386		
2,200.0	2,176.1	2,055.2	2,026.0	6.1	6.4	162.16	52.3	332.6	596.7	589.0	7.69	77.634		
2,300.0	2,273.5	2,144.3	2,112.1	6.6	6.9	162.23	56.5	355.3	642.0	634.0	8.06	79.665		
2,400.0	2,370.9	2,233.4	2,198.1	7.0	7.3	162.29	60.7	378.0	687.4	679.0	8.43	81.508		
2,500.0	2,468.4	2,322.5	2,284.2	7.4	7.7	162.35	64.9	400.7	732.8	724.0	8.81	83.187		
2,600.0	2,565.8	2,411.6	2,370.3	7.8	8.2	162.40	69.1	423.3	778.2	769.0	9.19	84.723		
2,700.0	2,663.2	2,500.7	2,456.3	8.3	8.6	162.44	73.3	446.0	823.6	814.1	9.56	86.134		
2,800.0	2,760.7	2,589.8	2,542.4	8.7	9.0	162.48	77.5	468.7	869.0	859.1	9.94	87.433		
2,900.0	2,858.2	2,679.0	2,628.5	9.1	9.5	162.58	81.7	491.4	914.2	903.9	10.33	88.508		
3,000.0	2,956.0	2,768.8	2,715.3	9.5	9.9	162.73	85.9	514.2	958.1	947.4	10.73	89.299		
3,100.0	3,054.1	2,859.4	2,802.8	9.9	10.4	162.83	90.2	537.3	1,000.5	989.4	11.13	89.916		
3,200.0	3,152.6	2,950.6	2,890.9	10.2	10.8	162.90	94.5	560.5	1,041.4	1,029.9	11.52	90.379		
3,300.0	3,251.4	3,042.5	2,979.7	10.5	11.3	162.93	98.9	583.9	1,080.8	1,068.9	11.92	90.705		
3,400.0	3,350.4	3,135.1	3,069.1	10.8	11.7	162.94	103.2	607.5	1,118.6	1,106.3	12.30	90.909		
3,500.0	3,449.7	3,228.2	3,159.1	11.1	12.2	162.93	107.6	631.2	1,154.9	1,142.2	12.69	91.005		
3,600.0	3,549.1	3,322.0	3,249.6	11.3	12.6	162.88	112.0	655.0	1,189.6	1,176.6	13.07	91.004		
3,700.0	3,648.7	3,416.3	3,340.7	11.5	13.1	162.82	116.5	679.0	1,222.8	1,209.3	13.45	90.915		
3,800.0	3,748.5	3,511.1	3,432.3	11.7	13.6	162.74	121.0	703.1	1,254.4	1,240.6	13.82	90.749		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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				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	-105.15	-224.4	-828.7	858.5					
100.0	100.0	95.6	95.6	0.2	0.1	-105.14	-224.3	-829.0	858.8	858.6	0.24	3,648.381		
200.0	200.0	184.8	184.7	0.3	0.2	-105.11	-224.1	-830.2	860.1	859.6	0.49	1,760.667		
300.0	300.0	282.9	282.9	0.5	0.2	-105.04	-223.7	-832.4	862.1	861.4	0.75	1,149.883		
400.0	400.0	389.7	389.6	0.7	0.3	-104.96	-222.9	-834.6	863.9	862.9	1.02	848.964		
500.0	500.0	493.5	493.4	0.9	0.4	-34.85	-221.2	-836.2	864.3	863.0	1.28	673.099		
600.0	600.0	593.5	593.4	1.0	0.5	-34.84	-219.7	-837.5	863.0	861.4	1.55	557.569		
700.0	699.9	694.7	694.5	1.2	0.6	-34.92	-218.4	-838.7	860.2	858.4	1.81	474.054		
800.0	799.7	805.8	805.7	1.4	0.7	-35.12	-217.2	-839.1	855.3	853.2	2.09	408.652		
900.0	899.4	900.0	899.9	1.6	0.8	-35.37	-216.0	-839.2	848.7	846.3	2.36	359.341		
1,000.0	998.9	1,000.0	999.9	1.8	0.9	-35.73	-215.1	-839.4	840.8	838.1	2.64	318.399		
1,100.0	1,098.3	1,094.2	1,094.1	2.1	1.0	-36.17	-214.5	-839.6	831.7	828.8	2.92	284.498		
1,200.0	1,197.4	1,191.0	1,190.8	2.3	1.0	-36.68	-213.8	-840.6	821.9	818.7	3.22	255.417		
1,300.0	1,296.3	1,294.9	1,294.7	2.6	1.1	-37.33	-213.0	-841.6	810.8	807.2	3.53	229.554		
1,400.0	1,394.9	1,388.9	1,388.8	2.9	1.2	-38.02	-212.2	-842.4	798.2	794.3	3.85	207.251		
1,500.0	1,493.3	1,490.1	1,489.9	3.3	1.3	-38.88	-211.6	-843.4	784.6	780.4	4.19	187.041		
1,600.0	1,591.2	1,589.1	1,589.0	3.7	1.4	-39.86	-211.2	-844.1	769.5	765.0	4.56	168.823		
1,700.0	1,688.9	1,686.9	1,686.7	4.1	1.5	-40.94	-210.4	-844.8	753.3	748.4	4.94	152.340		
1,800.0	1,786.3	1,784.3	1,784.1	4.5	1.6	-42.00	-209.7	-845.5	736.7	731.3	5.35	137.805		
1,900.0	1,883.7	1,882.5	1,882.3	4.9	1.7	-43.10	-208.7	-846.3	720.3	714.6	5.76	125.029		
2,000.0	1,981.2	1,978.0	1,977.7	5.3	1.7	-44.21	-207.8	-847.2	704.3	698.1	6.19	113.847		
2,100.0	2,078.6	2,071.3	2,071.0	5.7	1.8	-45.35	-207.1	-848.4	689.0	682.4	6.62	104.053		
2,200.0	2,176.1	2,165.4	2,165.2	6.1	1.9	-46.52	-206.5	-850.3	674.7	667.6	7.07	95.417		
2,300.0	2,273.5	2,261.9	2,261.6	6.6	2.0	-47.79	-206.1	-852.5	661.1	653.6	7.54	87.723		
2,400.0	2,370.9	2,361.0	2,360.7	7.0	2.1	-49.26	-206.9	-854.2	647.9	639.9	8.02	80.756		
2,500.0	2,468.4	2,460.4	2,460.1	7.4	2.2	-50.82	-207.8	-855.5	634.8	626.3	8.53	74.458		
2,600.0	2,565.8	2,563.6	2,563.3	7.8	2.3	-52.48	-208.3	-856.6	621.8	612.7	9.05	68.717		
2,700.0	2,663.2	2,664.4	2,664.1	8.3	2.3	-54.23	-208.8	-856.4	608.3	598.7	9.58	63.467		
2,800.0	2,760.7	2,759.3	2,759.0	8.7	2.4	-55.95	-209.2	-856.3	595.3	585.2	10.12	58.808		
2,900.0	2,858.2	2,854.6	2,854.3	9.1	2.5	-57.72	-210.2	-856.4	583.6	573.0	10.67	54.705		
3,000.0	2,956.0	2,953.3	2,953.0	9.5	2.6	-59.48	-211.6	-856.4	573.5	562.3	11.20	51.211		
3,100.0	3,054.1	3,052.3	3,052.0	9.9	2.7	-61.18	-212.9	-856.1	564.5	552.8	11.71	48.215		
3,200.0	3,152.6	3,149.4	3,149.0	10.2	2.8	-62.76	-214.2	-855.7	556.9	544.7	12.19	45.686		
3,300.0	3,251.4	3,246.1	3,245.8	10.5	2.8	-64.26	-215.9	-855.5	550.9	538.2	12.64	43.566		
3,400.0	3,350.4	3,341.4	3,341.1	10.8	2.9	-65.66	-218.1	-855.2	546.4	533.3	13.07	41.800		
3,500.0	3,449.7	3,437.1	3,436.7	11.1	3.0	-66.91	-220.9	-855.7	543.8	530.4	13.47	40.382		
3,600.0	3,549.1	3,537.9	3,537.4	11.3	3.1	-68.12	-223.9	-856.0	542.3	528.4	13.84	39.175		
3,700.0	3,648.7	3,637.5	3,636.9	11.5	3.2	-69.18	-227.0	-856.0	541.4	527.2	14.19	38.167		
3,739.5	3,688.1	3,676.1	3,675.5	11.6	3.2	-69.54	-228.2	-856.0	541.3	527.0	14.31	37.834		
3,800.0	3,748.5	3,735.9	3,735.3	11.7	3.3	-70.04	-229.9	-856.3	541.5	527.0	14.49	37.362		
3,900.0	3,848.4	3,835.6	3,835.0	11.9	3.4	-70.71	-232.8	-857.0	542.4	527.6	14.77	36.720		
4,000.0	3,948.3	3,935.3	3,934.7	12.0	3.4	-71.24	-235.9	-857.4	543.9	528.9	15.02	36.213		
4,100.0	4,048.3	4,034.0	4,033.3	12.1	3.5	-71.55	-238.7	-858.3	546.1	530.9	15.23	35.849		
4,200.0	4,148.3	4,132.2	4,131.5	12.2	3.6	-141.67	-241.6	-859.5	549.1	533.7	15.43	35.583		
4,300.0	4,248.3	4,231.3	4,230.5	12.3	3.7	-141.73	-244.7	-861.1	552.6	536.9	15.63	35.355		
4,400.0	4,348.3	4,335.0	4,334.1	12.4	3.8	-141.76	-247.3	-862.9	555.6	539.8	15.83	35.095		
4,500.0	4,448.3	4,435.5	4,434.6	12.5	3.9	-141.82	-249.7	-864.0	558.2	542.1	16.03	34.814		
4,600.0	4,548.3	4,534.2	4,533.2	12.6	4.0	-141.84	-252.0	-865.5	561.0	544.7	16.23	34.558		
4,700.0	4,648.3	4,634.7	4,633.7	12.8	4.1	-141.89	-254.5	-866.9	563.8	547.3	16.44	34.300		
4,800.0	4,748.3	4,735.9	4,734.8	12.9	4.2	-141.92	-256.8	-868.3	566.5	549.8	16.64	34.039		
4,900.0	4,848.3	4,841.2	4,840.2	13.0	4.3	-141.92	-258.7	-869.8	568.7	551.9	16.85	33.748		
5,000.0	4,948.3	4,948.9	4,947.9	13.1	4.3	-141.89	-259.2	-870.6	569.5	552.4	17.06	33.377		

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 1C-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 1C-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				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)				
5,100.0	5,048.3	5,051.5	5,050.5	13.2	4.4	-141.79	-258.5	-871.3	569.4	552.2	17.27	32.975		
5,200.0	5,148.3	5,152.4	5,151.3	13.3	4.5	-141.67	-257.6	-872.0	569.2	551.7	17.47	32.573		
5,300.0	5,248.3	5,253.5	5,252.4	13.5	4.6	-141.53	-256.3	-872.9	568.7	551.0	17.68	32.169		
5,400.0	5,348.3	5,355.4	5,354.3	13.6	4.7	-141.41	-255.0	-873.4	568.0	550.1	17.89	31.756		
5,500.0	5,448.3	5,456.1	5,455.1	13.7	4.8	-141.34	-253.8	-873.3	567.0	548.9	18.10	31.331		
5,600.0	5,548.3	5,555.8	5,554.7	13.8	4.9	-141.29	-252.7	-873.0	566.0	547.7	18.31	30.916		
5,700.0	5,648.3	5,657.5	5,656.4	13.9	5.0	-141.25	-251.7	-872.7	565.0	546.5	18.52	30.502		
5,800.0	5,748.3	5,756.5	5,755.4	14.1	5.0	-141.27	-250.8	-871.7	563.7	544.9	18.74	30.081		
5,900.0	5,848.3	5,856.5	5,855.4	14.2	5.1	-141.26	-250.0	-871.2	562.7	543.8	18.95	29.689		
6,000.0	5,948.3	5,958.2	5,957.1	14.3	5.2	-141.21	-248.6	-870.7	561.4	542.3	19.17	29.286		
6,100.0	6,048.3	6,056.0	6,054.9	14.4	5.3	-141.18	-247.5	-870.2	560.1	540.7	19.39	28.893		
6,200.0	6,148.3	6,156.3	6,155.2	14.6	5.4	-141.19	-246.8	-869.6	559.3	539.7	19.61	28.526		
6,300.0	6,248.3	6,259.2	6,258.1	14.7	5.5	-141.18	-245.7	-868.7	557.9	538.1	19.83	28.138		
6,400.0	6,348.3	6,360.0	6,358.9	14.8	5.6	-141.24	-244.7	-867.2	556.2	536.2	20.05	27.739		
6,500.0	6,448.3	6,458.4	6,457.3	15.0	5.6	-141.30	-243.8	-865.8	554.6	534.3	20.27	27.354		
6,600.0	6,548.3	6,559.6	6,558.4	15.1	5.7	-141.41	-243.4	-864.1	553.2	532.7	20.50	26.983		
6,700.0	6,648.3	6,661.6	6,660.4	15.2	5.8	-141.63	-243.2	-861.2	551.3	530.5	20.73	26.588		
6,800.0	6,748.3	6,760.2	6,758.9	15.4	5.9	38.28	-242.7	-858.7	548.9	527.9	20.95	26.198		
6,900.0	6,847.6	6,862.1	6,860.8	15.5	6.0	39.45	-241.8	-856.9	538.6	517.7	20.96	25.700		
7,000.0	6,944.5	6,963.8	6,962.5	15.5	6.1	42.46	-239.4	-855.3	517.0	496.3	20.70	24.978		
7,100.0	7,036.9	7,058.1	7,056.7	15.5	6.2	47.42	-236.5	-853.4	485.6	465.4	20.22	24.016		
7,200.0	7,123.3	7,143.7	7,142.2	15.6	6.2	54.61	-233.2	-851.9	447.2	427.5	19.64	22.762		
7,300.0	7,201.8	7,221.3	7,219.8	15.7	6.3	64.01	-230.3	-850.2	405.4	386.2	19.23	21.087		
7,400.0	7,270.9	7,290.1	7,288.4	15.9	6.4	74.92	-227.5	-848.3	365.8	346.5	19.26	18.993		
7,500.0	7,329.3	7,345.6	7,343.9	16.2	6.4	85.11	-225.2	-846.6	336.3	316.5	19.75	17.022		
7,589.2	7,371.5	7,385.1	7,383.3	16.7	6.4	92.10	-223.7	-845.3	326.4	306.0	20.40	16.000 CC, ES		
7,600.0	7,375.9	7,389.2	7,387.4	16.7	6.4	92.76	-223.6	-845.1	326.6	306.1	20.47	15.950 SF		
7,700.0	7,409.7	7,419.9	7,418.1	17.4	6.5	96.50	-222.5	-844.1	343.2	321.9	21.27	16.137		
7,800.0	7,430.1	7,437.1	7,435.3	18.2	6.5	95.69	-221.9	-843.5	385.6	363.5	22.19	17.378		
7,900.0	7,436.7	7,440.4	7,438.6	19.1	6.5	90.16	-221.8	-843.4	447.4	424.1	23.32	19.191		
8,000.0	7,436.7	7,436.9	7,435.1	20.2	6.5	89.55	-221.9	-843.5	521.4	496.9	24.51	21.271		
8,100.0	7,436.7	7,433.5	7,431.7	21.3	6.5	88.94	-222.0	-843.6	602.9	577.1	25.79	23.375		
8,200.0	7,436.7	7,430.0	7,428.2	22.6	6.5	88.33	-222.1	-843.7	689.3	662.1	27.14	25.397		
8,300.0	7,436.7	7,426.4	7,424.6	23.9	6.5	87.70	-222.3	-843.9	778.9	750.3	28.54	27.290		
8,400.0	7,436.7	7,422.9	7,421.1	25.2	6.5	87.07	-222.4	-844.0	870.7	840.8	29.98	29.040		
8,500.0	7,436.7	7,419.2	7,417.4	26.6	6.5	86.44	-222.5	-844.1	964.2	932.8	31.46	30.646		
8,600.0	7,436.7	7,415.5	7,413.8	28.0	6.5	85.79	-222.6	-844.2	1,058.9	1,025.9	32.97	32.118		
8,700.0	7,436.7	7,411.8	7,410.0	29.5	6.5	85.14	-222.8	-844.4	1,154.4	1,119.9	34.49	33.467		
8,800.0	7,436.7	7,408.0	7,406.3	31.0	6.5	84.49	-222.9	-844.5	1,250.7	1,214.6	36.04	34.704		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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)				
7,900.0	7,436.7	7,462.8	7,459.6	19.1	6.6	-103.23	-1,773.9	-447.1	1,246.0	1,222.8	23.21	53.675		
8,000.0	7,436.7	7,461.7	7,458.5	20.2	6.6	-102.38	-1,773.9	-447.0	1,146.2	1,121.8	24.40	46.974		
8,100.0	7,436.7	7,460.6	7,457.4	21.3	6.6	-101.52	-1,773.9	-447.0	1,046.4	1,020.8	25.68	40.753		
8,200.0	7,436.7	7,459.5	7,456.3	22.6	6.6	-100.67	-1,773.9	-446.9	946.7	919.7	27.03	35.025		
8,300.0	7,436.7	7,458.4	7,455.2	23.9	6.6	-99.81	-1,773.9	-446.9	847.0	818.6	28.44	29.781		
8,400.0	7,436.7	7,457.3	7,454.1	25.2	6.6	-98.96	-1,774.0	-446.8	747.5	717.6	29.91	24.993		
8,500.0	7,436.7	7,456.2	7,453.0	26.6	6.5	-98.10	-1,774.0	-446.8	648.0	616.6	31.41	20.629		
8,600.0	7,436.7	7,455.1	7,451.9	28.0	6.5	-97.25	-1,774.0	-446.7	548.8	515.8	32.95	16.652		
8,700.0	7,436.7	7,454.0	7,450.8	29.5	6.5	-96.39	-1,774.0	-446.7	449.9	415.3	34.52	13.030		
8,800.0	7,436.7	7,452.9	7,449.7	31.0	6.5	-95.54	-1,774.0	-446.6	351.5	315.4	36.12	9.733		
8,900.0	7,436.7	7,451.8	7,448.6	32.5	6.5	-94.69	-1,774.0	-446.6	254.6	216.8	37.73	6.747		
9,000.0	7,436.7	7,450.8	7,447.5	34.1	6.5	-93.84	-1,774.0	-446.5	161.3	121.9	39.36	4.098		
9,100.0	7,436.7	7,449.7	7,446.5	35.7	6.5	-92.99	-1,774.0	-446.5	85.0	44.0	41.00	2.072		
9,144.0	7,436.7	7,449.2	7,446.0	36.4	6.5	-92.62	-1,774.0	-446.5	72.7	31.0	41.72	1.742 CC, ES, SF		
9,200.0	7,436.7	7,448.6	7,445.4	37.2	6.5	-92.15	-1,774.0	-446.4	91.8	49.1	42.65	2.152		
9,300.0	7,436.7	7,447.5	7,444.3	38.8	6.5	-91.31	-1,774.1	-446.4	172.1	127.8	44.30	3.885		
9,400.0	7,436.7	7,446.5	7,443.3	40.5	6.5	-90.47	-1,774.1	-446.3	266.1	220.2	45.96	5.791		
9,500.0	7,436.7	7,445.4	7,442.2	42.1	6.5	-89.63	-1,774.1	-446.3	363.4	315.7	47.62	7.631		
9,600.0	7,436.7	7,444.3	7,441.1	43.7	6.5	-88.88	-1,774.1	-446.2	461.6	412.5	49.13	9.397		
9,700.0	7,436.7	7,443.2	7,439.9	45.3	6.5	-88.23	-1,774.1	-446.2	560.2	509.6	50.63	11.066		
9,800.0	7,436.7	7,442.0	7,438.7	47.0	6.5	-87.46	-1,774.1	-446.1	659.2	606.9	52.28	12.607		
9,900.0	7,436.7	7,440.8	7,437.5	48.6	6.5	-86.69	-1,774.1	-446.1	758.4	704.4	53.94	14.060		
10,000.0	7,436.7	7,439.6	7,436.3	50.3	6.5	-85.93	-1,774.1	-446.0	857.8	802.2	55.59	15.431		
10,100.0	7,436.7	7,438.4	7,435.2	51.9	6.5	-85.17	-1,774.2	-446.0	957.3	900.0	57.23	16.728		
10,200.0	7,436.7	7,437.2	7,434.0	53.6	6.5	-84.42	-1,774.2	-445.9	1,056.9	998.0	58.86	17.955		
10,300.0	7,436.7	7,436.0	7,432.8	55.3	6.5	-83.67	-1,774.2	-445.9	1,156.6	1,096.1	60.49	19.120		
10,400.0	7,436.7	7,434.8	7,431.6	56.9	6.5	-82.93	-1,774.2	-445.8	1,256.3	1,194.2	62.11	20.228		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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							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		
9,300.0	7,436.7	7,457.8	7,454.6	38.8	6.6	95.33	-3,101.0	-550.1	1,171.3	1,127.2	44.18	26.510		
9,400.0	7,436.7	7,457.6	7,454.4	40.5	6.6	95.01	-3,101.0	-550.1	1,071.4	1,025.5	45.85	23.366		
9,500.0	7,436.7	7,457.5	7,454.2	42.1	6.6	94.62	-3,101.0	-550.1	971.4	923.9	47.53	20.439		
9,600.0	7,436.7	7,457.3	7,454.1	43.7	6.6	92.89	-3,101.0	-550.1	871.5	822.4	49.12	17.742		
9,700.0	7,436.7	7,457.2	7,454.0	45.3	6.6	92.15	-3,101.0	-550.1	771.8	721.1	50.66	15.233		
9,800.0	7,436.7	7,457.1	7,453.9	47.0	6.6	92.08	-3,101.0	-550.1	672.1	619.8	52.35	12.840		
9,900.0	7,436.7	7,457.1	7,453.8	48.6	6.6	92.01	-3,101.0	-550.1	572.6	518.6	54.03	10.597		
10,000.0	7,436.7	7,457.0	7,453.8	50.3	6.6	91.95	-3,101.0	-550.1	473.3	417.6	55.73	8.493		
10,100.0	7,436.7	7,456.9	7,453.7	51.9	6.6	91.88	-3,101.0	-550.1	374.4	317.0	57.42	6.520		
10,200.0	7,436.7	7,456.9	7,453.6	53.6	6.6	91.81	-3,101.0	-550.1	276.2	217.1	59.12	4.672		
10,300.0	7,436.7	7,456.8	7,453.6	55.3	6.6	91.75	-3,101.0	-550.1	180.1	119.3	60.83	2.961		
10,400.0	7,436.7	7,456.7	7,453.5	56.9	6.6	91.68	-3,101.0	-550.1	92.7	30.2	62.54	1.482 Level 3		
10,469.3	7,436.7	7,456.7	7,453.4	58.1	6.6	91.64	-3,101.0	-550.2	61.6	-2.2	63.72	0.966 Level 1, CC, ES, SF		
10,500.0	7,436.7	7,456.7	7,453.4	58.6	6.6	91.62	-3,101.0	-550.2	68.8	4.6	64.25	1.071 Level 2		
10,600.0	7,436.7	7,456.6	7,453.3	60.3	6.6	91.55	-3,101.0	-550.2	144.5	78.5	65.97	2.190		
10,700.0	7,436.7	7,456.5	7,453.2	62.0	6.6	91.39	-3,101.0	-550.2	238.5	170.7	67.85	3.516		
10,800.0	7,436.7	7,456.3	7,453.1	63.7	6.6	91.18	-3,101.0	-550.2	335.7	266.0	69.72	4.815		
10,900.0	7,436.7	7,456.2	7,452.9	65.4	6.6	90.93	-3,101.0	-550.2	433.9	362.3	71.57	6.062		
11,000.0	7,436.0	7,455.3	7,452.0	67.1	6.6	84.78	-3,101.0	-550.2	532.6	459.5	73.09	7.287		
11,100.0	7,433.6	7,452.7	7,449.4	68.8	6.6	75.69	-3,101.0	-550.3	631.7	558.5	73.18	8.632		
11,200.0	7,429.4	7,448.4	7,445.2	70.6	6.6	65.18	-3,101.0	-550.4	730.9	659.9	71.01	10.293		
11,300.0	7,424.1	7,442.9	7,439.7	72.3	6.6	60.32	-3,101.0	-550.6	830.3	760.2	70.06	11.851		
11,400.0	7,418.7	7,437.4	7,434.2	74.0	6.6	57.41	-3,101.0	-550.7	929.8	860.0	69.80	13.320		
11,500.0	7,413.2	7,431.9	7,428.7	75.7	6.6	54.69	-3,101.0	-550.9	1,029.3	959.9	69.44	14.823		
11,600.0	7,407.8	7,426.5	7,423.2	77.4	6.6	52.17	-3,101.0	-551.0	1,128.9	1,059.9	69.01	16.359		
11,700.0	7,402.4	7,421.0	7,417.8	79.1	6.6	49.82	-3,101.0	-551.2	1,228.5	1,160.0	68.52	17.929		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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		
10,400.0	7,436.7	7,471.0	7,468.3	56.9	6.6	-89.90	-3,933.3	348.4	1,233.4	1,170.9	62.54	19.722		
10,500.0	7,436.7	7,471.5	7,468.7	58.6	6.6	-89.93	-3,933.3	348.4	1,159.7	1,095.4	64.25	18.050		
10,600.0	7,436.7	7,471.9	7,469.2	60.3	6.6	-89.96	-3,933.3	348.4	1,090.1	1,024.2	65.97	16.525		
10,700.0	7,436.7	7,472.3	7,469.6	62.0	6.6	-89.99	-3,933.3	348.4	1,026.3	958.5	67.85	15.127		
10,800.0	7,436.7	7,472.8	7,470.0	63.7	6.6	-90.02	-3,933.3	348.4	970.2	900.5	69.71	13.917		
10,900.0	7,436.7	7,473.2	7,470.5	65.4	6.6	-90.05	-3,933.3	348.4	923.0	851.5	71.56	12.898		
11,000.0	7,436.0	7,472.9	7,470.2	67.1	6.6	-90.38	-3,933.3	348.4	885.7	812.4	73.30	12.084		
11,100.0	7,433.6	7,470.9	7,468.2	68.8	6.6	-90.53	-3,933.3	348.4	858.6	783.5	75.02	11.444		
11,200.0	7,429.4	7,467.1	7,464.4	70.6	6.6	-90.43	-3,933.3	348.4	842.5	765.7	76.74	10.978		
11,287.2	7,424.9	7,462.9	7,460.2	72.0	6.6	-90.16	-3,933.3	348.4	837.9	759.7	78.24	10.710 CC		
11,300.0	7,424.1	7,462.1	7,459.4	72.3	6.6	-90.11	-3,933.3	348.4	838.0	759.6	78.46	10.681 ES		
11,400.0	7,418.7	7,457.1	7,454.4	74.0	6.6	-89.77	-3,933.3	348.4	845.5	765.3	80.18	10.545 SF		
11,500.0	7,413.2	7,452.1	7,449.4	75.7	6.5	-89.43	-3,933.2	348.4	864.5	782.6	81.89	10.556		
11,600.0	7,407.8	7,447.1	7,444.4	77.4	6.5	-89.09	-3,933.2	348.4	894.3	810.7	83.61	10.696		
11,700.0	7,402.4	7,442.1	7,439.4	79.1	6.5	-88.75	-3,933.2	348.4	933.9	848.5	85.32	10.946		
11,800.0	7,397.0	7,437.2	7,434.5	80.9	6.5	-88.41	-3,933.2	348.5	982.1	895.0	87.03	11.284		
11,900.0	7,391.6	7,432.3	7,429.6	82.6	6.5	-88.08	-3,933.1	348.5	1,037.6	948.9	88.74	11.693		
11,965.6	7,388.0	7,429.1	7,426.4	83.7	6.5	-87.86	-3,933.1	348.5	1,077.6	987.7	89.86	11.992		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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		
10,500.0	7,436.7	7,461.4	7,458.0	58.6	6.5	-86.61	-4,343.2	-417.6	1,215.7	1,151.5	64.11	18.962		
10,600.0	7,436.7	7,461.6	7,458.2	60.3	6.5	-86.92	-4,343.2	-417.6	1,115.7	1,049.8	65.84	16.945		
10,700.0	7,436.7	7,461.7	7,458.3	62.0	6.5	-88.28	-4,343.2	-417.6	1,015.7	948.0	67.78	14.986		
10,800.0	7,436.7	7,461.8	7,458.4	63.7	6.5	-88.83	-4,343.2	-417.6	915.9	846.3	69.66	13.149		
10,900.0	7,436.7	7,461.9	7,458.5	65.4	6.5	-89.12	-4,343.2	-417.6	816.3	744.7	71.52	11.414		
11,000.0	7,436.0	7,461.3	7,457.9	67.1	6.5	-96.95	-4,343.2	-417.6	716.8	644.0	72.84	9.841		
11,100.0	7,433.6	7,458.9	7,455.5	68.8	6.5	-103.32	-4,343.2	-417.6	617.6	544.2	73.38	8.416		
11,200.0	7,429.4	7,454.9	7,451.5	70.6	6.5	-107.13	-4,343.2	-417.6	518.7	444.7	73.99	7.010		
11,300.0	7,424.1	7,449.5	7,446.1	72.3	6.5	-104.95	-4,343.2	-417.7	420.3	344.0	76.31	5.508		
11,400.0	7,418.7	7,444.2	7,440.8	74.0	6.5	-101.34	-4,343.2	-417.7	322.8	243.9	78.91	4.091		
11,500.0	7,413.2	7,438.8	7,435.4	75.7	6.5	-97.64	-4,343.2	-417.7	227.4	146.1	81.31	2.797		
11,600.0	7,407.8	7,433.5	7,430.1	77.4	6.5	-93.87	-4,343.1	-417.8	138.5	55.1	83.45	1.660		
11,700.0	7,402.4	7,428.2	7,424.8	79.1	6.5	-90.06	-4,343.1	-417.8	81.2	-4.1	85.30	0.952 Level 1		
11,713.1	7,401.7	7,427.5	7,424.1	79.4	6.5	-89.56	-4,343.1	-417.8	80.1	-5.4	85.52	0.937 Level 1, CC, ES, SF		
11,800.0	7,397.0	7,422.8	7,419.4	80.9	6.5	-86.25	-4,343.1	-417.9	118.0	31.2	86.84	1.359 Level 3		
11,900.0	7,391.6	7,417.5	7,414.1	82.6	6.5	-82.47	-4,343.1	-417.9	203.0	115.0	88.03	2.306		
11,965.6	7,388.0	7,414.0	7,410.6	83.7	6.5	-80.03	-4,343.1	-417.9	264.5	175.9	88.63	2.984		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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		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	105.88	-218.2	766.9	797.5					
100.0	100.0	81.8	81.8	0.2	0.1	105.86	-218.0	767.1	797.5	0.22	3,568.564			
200.0	200.0	183.1	183.1	0.3	0.2	105.81	-217.4	767.7	797.9	0.49	1,640.224			
300.0	300.0	284.6	284.6	0.5	0.2	105.77	-216.9	768.0	798.0	0.75	1,064.730			
400.0	400.0	385.5	385.5	0.7	0.3	105.73	-216.4	768.1	798.0	1.01	788.464			
404.0	404.0	389.6	389.6	0.7	0.3	175.73	-216.4	768.1	798.0	1.02	780.004 ES			
500.0	500.0	486.6	486.6	0.9	0.4	175.71	-215.9	768.1	798.7	1.28	626.357			
600.0	600.0	586.7	586.7	1.0	0.5	175.69	-215.5	768.0	801.1	1.54	521.210			
700.0	699.9	687.1	687.1	1.2	0.6	175.67	-214.9	767.9	805.2	1.80	447.569			
800.0	799.7	786.4	786.4	1.4	0.7	175.66	-214.3	767.8	811.1	2.06	393.678			
900.0	899.4	882.9	882.9	1.6	0.8	175.66	-213.8	767.9	818.9	2.32	353.114			
1,000.0	998.9	981.2	981.2	1.8	0.9	175.67	-213.5	768.3	828.7	2.58	321.294			
1,100.0	1,098.3	1,080.8	1,080.8	2.1	0.9	175.69	-213.1	768.7	840.3	2.84	295.803			
1,200.0	1,197.4	1,181.7	1,181.7	2.3	1.0	175.73	-212.9	769.0	853.5	3.10	275.040			
1,300.0	1,296.3	1,276.6	1,276.6	2.6	1.1	175.78	-212.9	769.2	868.5	3.36	258.417			
1,400.0	1,394.9	1,378.8	1,378.8	2.9	1.2	175.82	-212.5	769.8	885.4	3.63	244.254			
1,500.0	1,493.3	1,473.8	1,473.8	3.3	1.3	175.88	-212.4	770.0	903.8	3.88	232.775			
1,600.0	1,591.2	1,576.0	1,576.0	3.7	1.4	175.98	-212.9	770.3	924.1	4.15	222.852			
1,700.0	1,688.9	1,670.3	1,670.3	4.1	1.5	176.06	-213.1	770.4	945.7	4.40	214.747			
1,800.0	1,786.3	1,767.2	1,767.2	4.5	1.5	176.18	-213.6	770.7	968.7	4.67	207.583			
1,900.0	1,883.7	1,867.4	1,867.4	4.9	1.6	176.26	-213.7	771.0	991.4	4.93	201.016			
2,000.0	1,981.2	1,964.6	1,964.6	5.3	1.7	176.33	-213.4	771.2	1,014.0	5.19	195.185			
2,100.0	2,078.6	2,065.5	2,065.4	5.7	1.8	176.40	-213.3	771.3	1,036.5	5.46	189.808			
2,200.0	2,176.1	2,160.9	2,160.9	6.1	1.9	176.46	-212.9	771.2	1,058.7	5.72	185.029			
2,300.0	2,273.5	2,255.9	2,255.8	6.6	2.0	176.50	-212.5	771.5	1,081.4	5.98	180.750			
2,400.0	2,370.9	2,355.5	2,355.4	7.0	2.1	176.53	-211.7	771.9	1,104.0	6.25	176.705			
2,500.0	2,468.4	2,457.8	2,457.7	7.4	2.1	176.55	-210.7	772.1	1,126.3	6.52	172.878			
2,600.0	2,565.8	2,556.6	2,556.5	7.8	2.2	176.58	-209.7	771.8	1,148.3	6.78	169.376			
2,700.0	2,663.2	2,652.6	2,652.5	8.3	2.3	176.59	-208.7	771.7	1,170.3	7.04	166.209			
2,800.0	2,760.7	2,748.5	2,748.4	8.7	2.4	176.61	-207.7	771.7	1,192.5	7.30	163.284			
2,900.0	2,858.2	2,844.3	2,844.3	9.1	2.5	176.62	-206.6	771.9	1,214.6	7.57	160.537			
3,000.0	2,956.0	2,941.9	2,941.9	9.5	2.6	176.63	-205.3	772.2	1,235.3	7.83	157.769			
3,100.0	3,054.1	3,039.7	3,039.6	9.9	2.7	176.63	-203.9	772.5	1,254.2	8.09	154.986 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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							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		
9,600.0	7,436.7	7,459.3	7,455.9	43.7	6.5	-90.13	-2,913.8	480.8	1,210.6	1,161.5	49.12	24.644		
9,700.0	7,436.7	7,459.5	7,456.0	45.3	6.5	-90.14	-2,913.8	480.8	1,154.8	1,104.1	50.64	22.804		
9,800.0	7,436.7	7,459.7	7,456.2	47.0	6.5	-90.15	-2,913.8	480.8	1,104.4	1,052.1	52.32	21.109		
9,900.0	7,436.7	7,459.8	7,456.4	48.6	6.5	-90.16	-2,913.8	480.8	1,061.2	1,007.2	54.01	19.649		
10,000.0	7,436.7	7,460.0	7,456.5	50.3	6.5	-90.17	-2,913.8	480.8	1,025.9	970.2	55.70	18.419		
10,100.0	7,436.7	7,460.1	7,456.7	51.9	6.5	-90.18	-2,913.8	480.8	999.4	942.0	57.39	17.414		
10,200.0	7,436.7	7,460.3	7,456.8	53.6	6.5	-90.19	-2,913.8	480.8	982.5	923.4	59.09	16.625		
10,300.0	7,436.7	7,460.4	7,457.0	55.3	6.5	-90.19	-2,913.8	480.8	975.5	914.7	60.80	16.045		
10,318.2	7,436.7	7,460.5	7,457.0	55.6	6.5	-90.20	-2,913.8	480.8	975.3	914.2	61.11	15.961 CC, ES		
10,400.0	7,436.7	7,460.6	7,457.1	56.9	6.5	-90.20	-2,913.8	480.8	978.7	916.2	62.50	15.659		
10,500.0	7,436.7	7,460.7	7,457.3	58.6	6.5	-90.21	-2,913.8	480.8	992.1	927.9	64.21	15.450		
10,600.0	7,436.7	7,460.9	7,457.4	60.3	6.5	-90.22	-2,913.8	480.8	1,015.2	949.3	65.93	15.398 SF		
10,700.0	7,436.7	7,461.1	7,457.6	62.0	6.5	-90.23	-2,913.8	480.8	1,048.2	980.4	67.81	15.458		
10,800.0	7,436.7	7,461.2	7,457.8	63.7	6.5	-90.24	-2,913.8	480.8	1,091.0	1,021.3	69.68	15.659		
10,900.0	7,436.7	7,461.4	7,457.9	65.4	6.5	-90.26	-2,913.8	480.8	1,142.5	1,070.9	71.53	15.973		
11,000.0	7,436.0	7,460.9	7,457.5	67.1	6.5	-89.59	-2,913.8	480.8	1,200.9	1,127.6	73.26	16.392		
11,100.0	7,433.6	7,458.8	7,455.3	68.8	6.5	-88.64	-2,913.8	480.8	1,264.5	1,189.6	74.96	16.870		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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 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	103.45	-183.2	765.8	787.4					
100.0	100.0	100.3	100.3	0.2	0.2	103.45	-183.2	765.8	787.4	787.1	0.33	2,412.631		
200.0	200.0	199.6	199.6	0.3	0.3	103.45	-183.2	766.0	787.6	786.9	0.67	1,168.977		
300.0	300.0	299.0	299.0	0.5	0.5	103.45	-183.3	766.2	787.8	786.8	1.02	771.530		
400.0	400.0	398.3	398.3	0.7	0.7	103.45	-183.3	766.5	788.1	786.7	1.37	575.913		
500.0	500.0	497.6	497.6	0.9	0.9	173.45	-183.3	766.9	789.3	787.6	1.71	461.262		
600.0	600.0	596.9	596.9	1.0	1.0	173.46	-183.4	767.3	792.4	790.4	2.06	385.189		
700.0	699.9	696.1	696.1	1.2	1.2	173.49	-183.4	767.9	797.3	794.9	2.40	331.849		
800.0	799.7	795.2	795.2	1.4	1.4	173.53	-183.5	768.5	804.0	801.3	2.75	292.650		
900.0	899.4	894.1	894.1	1.6	1.6	173.57	-183.6	769.2	812.5	809.4	3.09	262.847		
1,000.0	998.9	992.9	992.9	1.8	1.7	173.63	-183.7	770.0	822.9	819.4	3.43	239.605		
1,100.0	1,098.3	1,091.4	1,091.4	2.1	1.9	173.69	-183.8	770.9	835.0	831.2	3.78	221.127		
1,200.0	1,197.4	1,189.7	1,189.7	2.3	2.1	173.76	-183.9	771.9	849.0	844.8	4.12	206.217		
1,300.0	1,296.3	1,291.0	1,291.0	2.6	2.2	173.85	-184.1	772.8	864.6	860.1	4.46	193.733		
1,400.0	1,394.9	1,407.4	1,407.3	2.9	2.4	173.91	-183.1	772.7	880.7	875.9	4.83	182.182		
1,500.0	1,493.3	1,549.5	1,549.4	3.3	2.7	173.85	-178.8	769.4	896.2	891.0	5.25	170.635		
1,600.0	1,591.2	1,712.3	1,711.2	3.7	3.0	173.70	-169.4	754.9	905.8	900.1	5.71	158.613		
1,700.0	1,688.9	1,828.2	1,825.8	4.1	3.2	173.55	-160.7	740.4	913.5	907.4	6.09	150.011		
1,800.0	1,786.3	1,945.9	1,941.9	4.5	3.5	173.45	-151.8	723.2	920.0	913.5	6.48	141.888		
1,900.0	1,883.7	2,036.0	2,030.8	4.9	3.7	173.46	-146.2	709.5	926.2	919.4	6.83	135.696		
2,000.0	1,981.2	2,147.6	2,140.9	5.3	4.0	173.45	-139.1	692.6	932.5	925.3	7.21	129.377		
2,100.0	2,078.6	2,253.0	2,244.7	5.7	4.3	173.46	-132.3	675.3	937.5	929.9	7.58	123.733		
2,200.0	2,176.1	2,352.8	2,342.9	6.1	4.6	173.51	-126.5	658.5	942.2	934.3	7.93	118.752		
2,300.0	2,273.5	2,453.2	2,441.7	6.6	4.9	173.57	-120.8	641.9	947.3	939.0	8.29	114.231		
2,400.0	2,370.9	2,549.9	2,536.9	7.0	5.2	173.64	-115.6	625.9	952.4	943.7	8.64	110.189		
2,500.0	2,468.4	2,648.2	2,633.7	7.4	5.5	173.72	-110.6	609.6	957.5	948.5	8.99	106.447		
2,600.0	2,565.8	2,749.0	2,733.1	7.8	5.8	173.85	-106.1	592.9	962.8	953.5	9.35	102.993		
2,700.0	2,663.2	2,847.4	2,830.0	8.3	6.1	173.97	-101.8	576.7	968.3	958.6	9.70	99.845		
2,800.0	2,760.7	2,953.0	2,933.9	8.7	6.5	174.11	-97.1	558.5	972.9	962.8	10.06	96.722		
2,900.0	2,858.2	3,046.9	3,026.4	9.1	6.8	174.22	-92.9	542.7	977.7	967.3	10.41	93.959		
3,000.0	2,956.0	3,141.0	3,119.2	9.5	7.1	174.32	-88.6	527.4	981.7	970.9	10.76	91.243		
3,100.0	3,054.1	3,247.6	3,224.2	9.9	7.4	174.40	-83.5	510.0	983.7	972.6	11.13	88.373		
3,200.0	3,152.6	3,329.0	3,304.5	10.2	7.7	174.48	-80.1	496.9	984.4	972.9	11.46	85.936		
3,300.0	3,251.4	3,421.0	3,395.4	10.5	8.0	174.60	-77.3	483.4	985.0	973.2	11.79	83.537		
3,400.0	3,350.4	3,527.1	3,500.4	10.8	8.3	174.81	-75.4	467.8	984.2	972.0	12.15	81.029		
3,500.0	3,449.7	3,635.4	3,607.3	11.1	8.6	174.95	-72.5	451.0	980.6	968.1	12.51	78.416		
3,600.0	3,549.1	3,741.5	3,711.9	11.3	9.0	174.99	-67.7	434.4	974.6	961.8	12.86	75.770		
3,700.0	3,648.7	3,841.5	3,810.6	11.5	9.3	175.00	-62.9	418.3	966.5	953.3	13.21	73.180		
3,800.0	3,748.5	3,932.4	3,900.3	11.7	9.6	174.96	-58.2	404.5	957.4	943.8	13.53	70.735		
3,900.0	3,848.4	4,054.6	4,020.8	11.9	10.0	174.84	-50.7	385.7	946.2	932.3	13.92	67.985		
4,000.0	3,948.3	4,165.0	4,129.1	12.0	10.4	174.71	-43.2	365.8	930.4	916.1	14.28	65.168		
4,100.0	4,048.3	4,255.0	4,217.4	12.1	10.8	174.60	-37.3	349.8	913.2	898.6	14.60	62.568		
4,200.0	4,148.3	4,342.3	4,303.3	12.2	11.1	104.51	-32.2	335.0	895.6	880.7	14.92	60.047		
4,300.0	4,248.3	4,438.7	4,398.3	12.3	11.4	104.42	-26.7	319.5	878.6	863.3	15.26	57.568		
4,400.0	4,348.3	4,528.9	4,487.3	12.4	11.7	104.37	-22.2	305.2	862.1	846.5	15.59	55.285		
4,500.0	4,448.3	4,630.2	4,587.3	12.5	12.0	104.38	-18.3	289.3	845.9	830.0	15.94	53.062		
4,600.0	4,548.3	4,722.4	4,678.3	12.6	12.3	104.33	-14.1	275.3	830.0	813.7	16.28	50.986		
4,700.0	4,648.3	4,834.4	4,788.7	12.8	12.7	104.11	-6.4	258.2	813.5	796.8	16.66	48.828		
4,800.0	4,748.3	4,923.6	4,876.7	12.9	13.0	103.89	0.1	244.5	796.8	779.8	17.00	46.866		
4,900.0	4,848.3	5,032.0	4,983.5	13.0	13.4	103.65	7.5	228.0	780.5	763.1	17.38	44.909		
5,000.0	4,948.3	5,126.2	5,076.4	13.1	13.7	103.54	12.6	212.9	763.5	745.8	17.72	43.086		
5,100.0	5,048.3	5,226.5	5,175.1	13.2	14.0	103.49	17.2	196.6	746.7	728.6	18.07	41.318		

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 1C-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 1C-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
5,200.0	5,148.3	5,323.2	5,270.5	13.3	14.4	103.41	22.0	180.9	729.7	711.3	18.42	39.620		
5,300.0	5,248.3	5,415.4	5,361.5	13.5	14.7	103.28	27.1	166.9	713.7	694.9	18.76	38.042		
5,400.0	5,348.3	5,523.9	5,468.4	13.6	15.0	103.08	33.5	149.8	697.0	677.8	19.14	36.423		
5,500.0	5,448.3	5,613.0	5,556.2	13.7	15.3	102.87	39.3	136.0	680.4	660.9	19.48	34.930		
5,600.0	5,548.3	5,696.5	5,638.8	13.8	15.6	102.67	44.2	124.7	665.9	646.1	19.81	33.612		
5,700.0	5,648.3	5,791.6	5,733.1	13.9	15.8	102.36	50.3	113.5	653.0	632.8	20.18	32.365		
5,800.0	5,748.3	5,892.9	5,833.4	14.1	16.1	102.03	56.7	101.5	640.1	619.5	20.55	31.147		
5,900.0	5,848.3	5,997.3	5,936.8	14.2	16.5	101.78	62.3	88.3	626.6	605.6	20.93	29.939		
6,000.0	5,948.3	6,108.0	6,046.1	14.3	16.8	101.14	72.2	73.5	611.6	590.3	21.36	28.638		
6,100.0	6,048.3	6,199.3	6,136.0	14.4	17.1	100.45	81.9	61.2	596.4	574.6	21.76	27.405		
6,200.0	6,148.3	6,295.6	6,231.1	14.6	17.4	99.71	91.7	49.1	582.3	560.1	22.18	26.246		
6,300.0	6,248.3	6,386.5	6,321.0	14.7	17.7	99.03	100.3	38.3	568.9	546.3	22.60	25.175		
6,400.0	6,348.3	6,475.6	6,409.2	14.8	18.0	98.43	107.7	28.9	557.2	534.2	23.00	24.225		
6,500.0	6,448.3	6,564.2	6,497.3	15.0	18.2	98.01	112.9	20.9	547.4	524.1	23.38	23.420		
6,600.0	6,548.3	6,654.2	6,587.0	15.1	18.4	97.77	116.2	14.2	539.5	515.8	23.73	22.735		
6,700.0	6,648.3	6,740.4	6,673.0	15.2	18.5	97.65	118.0	9.4	533.7	509.7	24.06	22.181		
6,800.0	6,748.3	6,827.6	6,760.2	15.4	18.6	-82.52	118.9	6.7	530.4	506.0	24.39	21.747		
6,900.0	6,847.6	6,922.0	6,854.6	15.5	18.8	-83.90	119.5	5.5	527.8	503.0	24.80	21.279		
7,000.0	6,944.5	7,019.5	6,952.1	15.5	18.9	-86.81	120.1	4.4	524.6	499.2	25.38	20.665		
7,100.0	7,036.9	7,114.2	7,046.8	15.5	19.0	-90.98	120.8	3.0	522.2	496.1	26.10	20.010		
7,125.7	7,059.8	7,137.7	7,070.3	15.5	19.0	-92.19	121.0	2.6	522.1	495.8	26.29	19.857 CC, ES		
7,200.0	7,123.3	7,202.9	7,135.5	15.6	19.1	-95.83	121.6	1.3	523.6	496.7	26.81	19.528		
7,300.0	7,201.8	7,283.4	7,216.0	15.7	19.3	-100.61	122.3	-0.7	532.0	504.7	27.35	19.453 SF		
7,400.0	7,270.9	7,354.2	7,286.7	15.9	19.4	-104.56	122.8	-2.8	551.0	523.3	27.64	19.933		
7,500.0	7,329.3	7,405.9	7,338.4	16.2	19.5	-106.33	123.3	-4.3	583.0	555.2	27.78	20.983		
7,600.0	7,375.9	7,444.8	7,377.2	16.7	19.5	-105.90	123.9	-4.9	629.0	600.9	28.10	22.389		
7,700.0	7,409.7	7,472.1	7,404.6	17.4	19.5	-102.97	124.4	-5.2	687.7	658.9	28.80	23.881		
7,800.0	7,430.1	7,487.0	7,419.4	18.2	19.6	-97.05	124.7	-5.2	756.5	726.6	29.86	25.330		
7,900.0	7,436.7	7,492.2	7,424.6	19.1	19.6	-88.55	124.8	-5.2	832.5	801.6	30.90	26.941		
8,000.0	7,436.7	7,490.1	7,422.6	20.2	19.6	-88.32	124.7	-5.2	913.2	881.2	32.09	28.463		
8,100.0	7,436.7	7,488.1	7,420.5	21.3	19.6	-88.09	124.7	-5.2	997.5	964.1	33.36	29.905		
8,200.0	7,436.7	7,487.0	7,419.4	22.6	19.6	-87.97	124.7	-5.2	1,084.4	1,049.7	34.70	31.252		
8,300.0	7,436.7	7,487.0	7,419.4	23.9	19.6	-87.97	124.7	-5.2	1,173.4	1,137.3	36.11	32.498		
8,400.0	7,436.7	7,487.0	7,419.4	25.2	19.6	-87.97	124.7	-5.2	1,264.1	1,226.5	37.56	33.654		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
8,700.0	7,436.7	7,512.8	7,446.2	29.5	17.3	-88.54	-2,451.5	-108.3	1,194.4	1,151.3	43.04	27.749		
8,800.0	7,436.7	7,513.4	7,446.8	31.0	17.3	-88.62	-2,451.5	-108.3	1,101.0	1,056.4	44.62	24.676		
8,900.0	7,436.7	7,513.9	7,447.3	32.5	17.3	-88.70	-2,451.5	-108.3	1,008.9	962.7	46.21	21.831		
9,000.0	7,436.7	7,514.5	7,447.9	34.1	17.3	-88.78	-2,451.5	-108.3	918.5	870.7	47.83	19.204		
9,100.0	7,436.7	7,515.1	7,448.5	35.7	17.3	-88.86	-2,451.5	-108.3	830.3	780.8	49.45	16.789		
9,200.0	7,436.7	7,515.7	7,449.1	37.2	17.3	-88.94	-2,451.5	-108.2	745.0	693.9	51.09	14.582		
9,300.0	7,436.7	7,516.2	7,449.6	38.8	17.3	-89.02	-2,451.5	-108.2	663.9	611.1	52.74	12.588		
9,400.0	7,436.7	7,516.8	7,450.2	40.5	17.3	-89.10	-2,451.5	-108.2	588.6	534.2	54.40	10.820		
9,500.0	7,436.7	7,517.4	7,450.8	42.1	17.3	-89.18	-2,451.5	-108.2	521.7	465.6	56.06	9.305		
9,600.0	7,436.7	7,518.0	7,451.4	43.7	17.3	-89.25	-2,451.5	-108.2	466.0	408.3	57.66	8.081		
9,700.0	7,436.7	7,518.5	7,451.9	45.3	17.3	-89.33	-2,451.5	-108.2	425.0	365.8	59.25	7.173		
9,800.0	7,436.7	7,519.1	7,452.5	47.0	17.3	-89.41	-2,451.5	-108.2	404.4	343.4	60.94	6.636		
9,835.6	7,436.7	7,519.4	7,452.8	47.6	17.3	-89.44	-2,451.5	-108.2	402.8	341.3	61.54	6.546 CC, ES		
9,900.0	7,436.7	7,519.7	7,453.1	48.6	17.3	-89.50	-2,451.5	-108.2	407.9	345.3	62.63	6.514 SF		
10,000.0	7,436.7	7,520.3	7,453.7	50.3	17.3	-89.58	-2,451.5	-108.2	435.0	370.7	64.32	6.764		
10,100.0	7,436.7	7,520.9	7,454.3	51.9	17.3	-89.67	-2,451.5	-108.2	481.8	415.8	66.02	7.298		
10,200.0	7,436.7	7,521.5	7,454.9	53.6	17.3	-89.75	-2,451.6	-108.2	543.1	475.4	67.72	8.020		
10,300.0	7,436.7	7,522.1	7,455.5	55.3	17.3	-89.83	-2,451.6	-108.2	614.7	545.3	69.42	8.854		
10,400.0	7,436.7	7,522.7	7,456.1	56.9	17.3	-89.92	-2,451.6	-108.2	693.3	622.2	71.13	9.747		
10,500.0	7,436.7	7,523.3	7,456.7	58.6	17.3	-90.00	-2,451.6	-108.2	776.9	704.1	72.84	10.665		
10,600.0	7,436.7	7,523.9	7,457.2	60.3	17.3	-90.08	-2,451.6	-108.2	864.0	789.4	74.56	11.588		
10,700.0	7,436.7	7,524.4	7,457.8	62.0	17.3	-90.17	-2,451.6	-108.2	954.0	877.6	76.37	12.492		
10,800.0	7,436.7	7,525.0	7,458.4	63.7	17.3	-90.26	-2,451.6	-108.2	1,046.4	968.3	78.16	13.388		
10,900.0	7,436.7	7,525.5	7,458.9	65.4	17.3	-90.36	-2,451.6	-108.2	1,140.7	1,060.8	79.94	14.270		
11,000.0	7,436.0	7,525.4	7,458.8	67.1	17.3	-87.49	-2,451.6	-108.2	1,236.2	1,154.7	81.56	15.157		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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							
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
11,200.0	7,429.4	7,578.7	7,509.0	70.6	20.2	-98.11	-4,958.8	21.4	1,239.0	1,154.5	84.54	14.657	
11,300.0	7,424.1	7,571.5	7,501.8	72.3	20.2	-97.82	-4,958.9	21.4	1,149.7	1,063.5	86.29	13.324	
11,400.0	7,418.7	7,564.2	7,494.6	74.0	20.2	-97.05	-4,959.0	21.4	1,062.3	974.2	88.11	12.057	
11,500.0	7,413.2	7,557.0	7,487.3	75.7	20.1	-96.28	-4,959.1	21.4	977.2	887.3	89.92	10.868	
11,600.0	7,407.8	7,549.7	7,480.1	77.4	20.1	-95.51	-4,959.2	21.4	895.2	803.5	91.72	9.760	
11,700.0	7,402.4	7,542.4	7,472.8	79.1	20.1	-94.73	-4,959.3	21.5	817.1	723.6	93.51	8.738	
11,800.0	7,397.0	7,535.1	7,465.4	80.9	20.1	-93.95	-4,959.4	21.5	744.2	648.9	95.29	7.810	
11,900.0	7,391.6	7,527.7	7,458.1	82.6	20.1	-93.16	-4,959.6	21.5	678.1	581.1	97.06	6.987	
11,965.6	7,388.0	7,522.9	7,453.3	83.7	20.1	-92.64	-4,959.6	21.5	639.6	541.4	98.21	6.512 CC, ES, SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1C-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 1C-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)

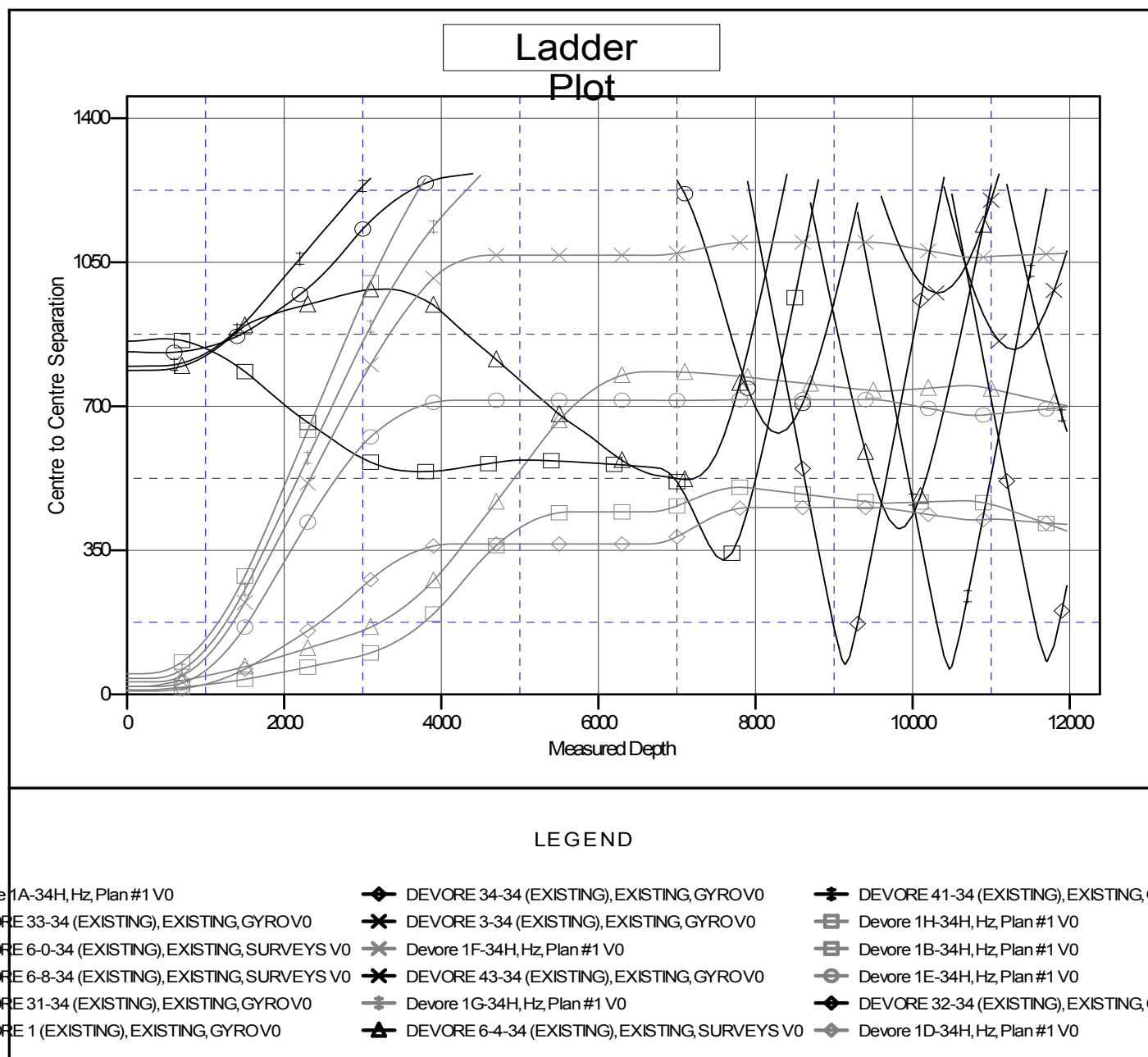
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Devore 1C-34H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.48°



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