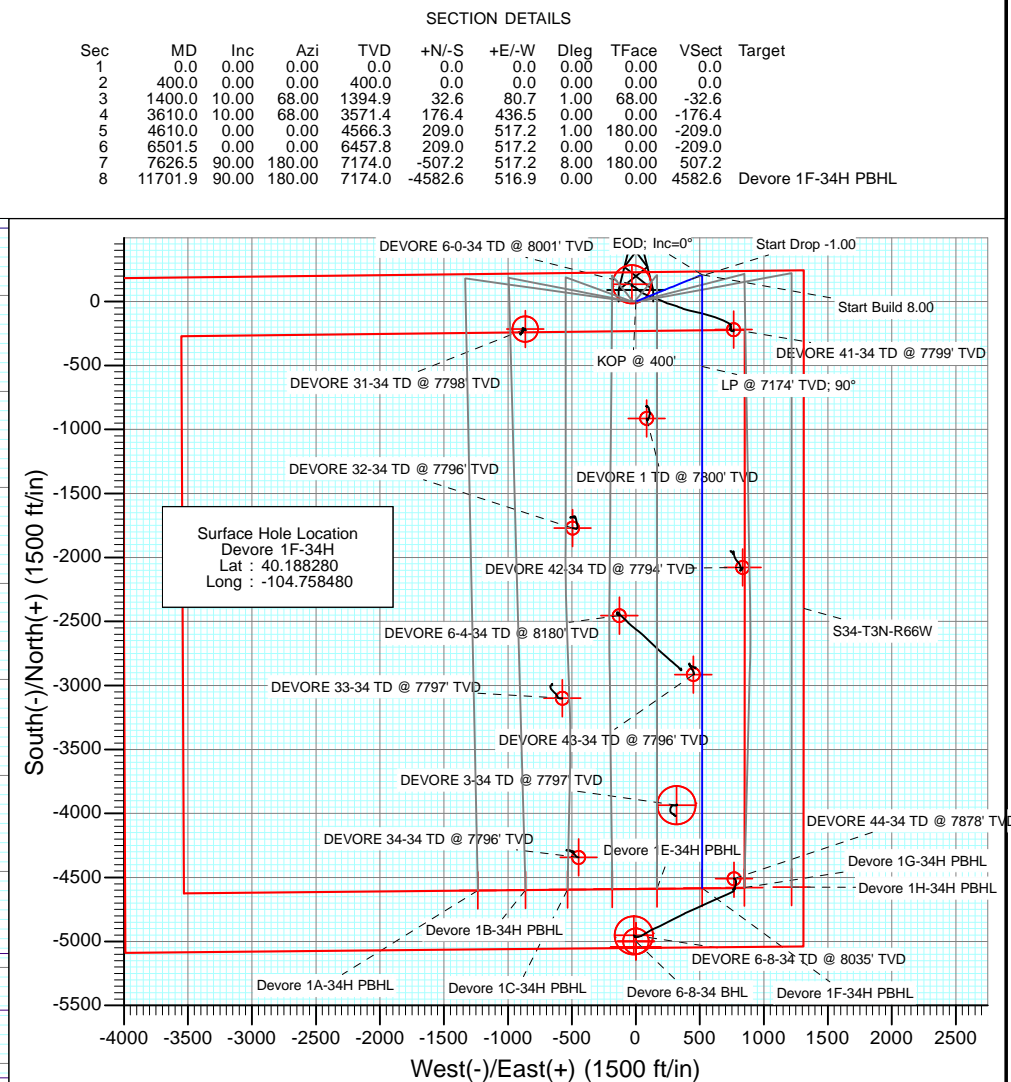
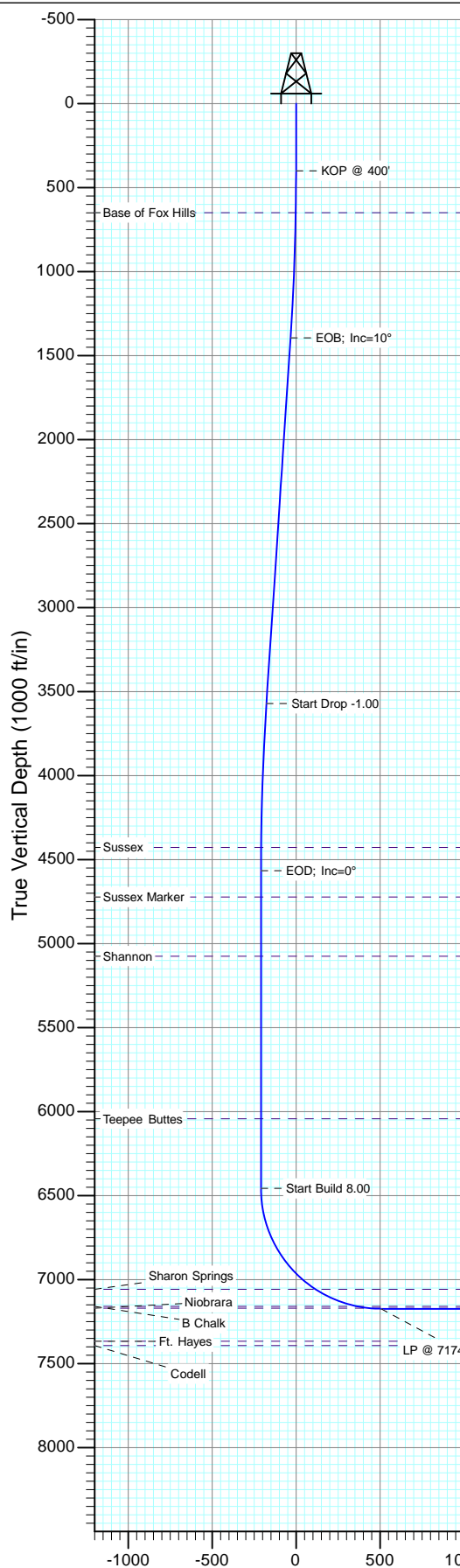




Project: DJ Wattenberg
Site: S34-T3N-R66W (Devore)
Well: Devore 1F-34H
Wellbore: Hz
Design: Plan #1

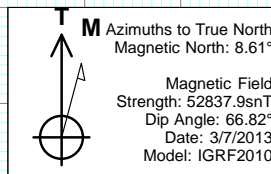


DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Devore 1F-34H PBHL	-4582.6	516.9	1307723.68	3207725.21	40.175700	-104.756630

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
649.0	649.1	Base of Fox Hills
4428.0	4471.7	Sussex
4723.0	4766.7	Sussex Marker
5075.0	5118.7	Shannon
6043.0	6086.7	Teepee Buttes
7058.0	7213.2	Sharon Springs
7159.0	7479.7	B Chalk
7170.0	7550.8	Niobrara



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

Vertical Section at 180.00° (1000 ft/in)

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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 1F-34H					
Well Position	+N/-S	0.0 ft	Northing:	1,312,301.82 ft	Latitude:	40.188280
	+E/-W	0.0 ft	Easting:	3,207,169.96 ft	Longitude:	-104.758480
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	
1,400.0	10.00	68.00	1,394.9	32.6	80.7	1.00	1.00	0.00	68.00	
3,610.0	10.00	68.00	3,571.4	176.4	436.5	0.00	0.00	0.00	0.00	
4,610.0	0.00	0.00	4,566.3	209.0	517.2	1.00	-1.00	0.00	180.00	
6,501.5	0.00	0.00	6,457.8	209.0	517.2	0.00	0.00	0.00	0.00	
7,626.5	90.00	180.00	7,174.0	-507.2	517.2	8.00	8.00	0.00	180.00	
11,701.9	90.00	180.00	7,174.0	-4,582.6	516.9	0.00	0.00	0.00	0.00	Devore 1F-34H PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	68.00	500.0	0.3	0.8	-0.3	1.00	1.00	
600.0	2.00	68.00	600.0	1.3	3.2	-1.3	1.00	1.00	
649.1	2.49	68.00	649.0	2.0	5.0	-2.0	1.00	1.00	Base of Fox Hills
700.0	3.00	68.00	699.9	2.9	7.3	-2.9	1.00	1.00	
800.0	4.00	68.00	799.7	5.2	12.9	-5.2	1.00	1.00	
900.0	5.00	68.00	899.4	8.2	20.2	-8.2	1.00	1.00	
1,000.0	6.00	68.00	998.9	11.8	29.1	-11.8	1.00	1.00	
1,100.0	7.00	68.00	1,098.3	16.0	39.6	-16.0	1.00	1.00	
1,200.0	8.00	68.00	1,197.4	20.9	51.7	-20.9	1.00	1.00	
1,300.0	9.00	68.00	1,296.3	26.4	65.4	-26.4	1.00	1.00	
1,400.0	10.00	68.00	1,394.9	32.6	80.7	-32.6	1.00	1.00	EOB; Inc=10°
1,500.0	10.00	68.00	1,493.4	39.1	96.8	-39.1	0.00	0.00	
1,600.0	10.00	68.00	1,591.9	45.6	112.9	-45.6	0.00	0.00	
1,700.0	10.00	68.00	1,690.4	52.1	129.0	-52.1	0.00	0.00	
1,800.0	10.00	68.00	1,788.9	58.6	145.1	-58.6	0.00	0.00	
1,900.0	10.00	68.00	1,887.3	65.1	161.2	-65.1	0.00	0.00	
2,000.0	10.00	68.00	1,985.8	71.6	177.3	-71.6	0.00	0.00	
2,100.0	10.00	68.00	2,084.3	78.1	193.4	-78.1	0.00	0.00	
2,200.0	10.00	68.00	2,182.8	84.6	209.5	-84.6	0.00	0.00	
2,300.0	10.00	68.00	2,281.3	91.2	225.6	-91.2	0.00	0.00	
2,400.0	10.00	68.00	2,379.7	97.7	241.7	-97.7	0.00	0.00	
2,500.0	10.00	68.00	2,478.2	104.2	257.8	-104.2	0.00	0.00	
2,600.0	10.00	68.00	2,576.7	110.7	273.9	-110.7	0.00	0.00	
2,700.0	10.00	68.00	2,675.2	117.2	290.0	-117.2	0.00	0.00	
2,800.0	10.00	68.00	2,773.7	123.7	306.1	-123.7	0.00	0.00	
2,900.0	10.00	68.00	2,872.1	130.2	322.2	-130.2	0.00	0.00	
3,000.0	10.00	68.00	2,970.6	136.7	338.3	-136.7	0.00	0.00	
3,100.0	10.00	68.00	3,069.1	143.2	354.4	-143.2	0.00	0.00	
3,200.0	10.00	68.00	3,167.6	149.7	370.5	-149.7	0.00	0.00	
3,300.0	10.00	68.00	3,266.1	156.2	386.6	-156.2	0.00	0.00	
3,400.0	10.00	68.00	3,364.5	162.7	402.7	-162.7	0.00	0.00	
3,500.0	10.00	68.00	3,463.0	169.2	418.8	-169.2	0.00	0.00	
3,600.0	10.00	68.00	3,561.5	175.7	434.9	-175.7	0.00	0.00	
3,610.0	10.00	68.00	3,571.4	176.4	436.5	-176.4	0.00	0.00	Start Drop -1.00
3,700.0	9.10	68.00	3,660.1	182.0	450.4	-182.0	1.00	-1.00	
3,800.0	8.10	68.00	3,759.0	187.6	464.2	-187.6	1.00	-1.00	
3,900.0	7.10	68.00	3,858.1	192.5	476.5	-192.5	1.00	-1.00	
4,000.0	6.10	68.00	3,957.4	196.8	487.2	-196.8	1.00	-1.00	
4,100.0	5.10	68.00	4,057.0	200.5	496.2	-200.5	1.00	-1.00	
4,200.0	4.10	68.00	4,156.6	203.5	503.6	-203.5	1.00	-1.00	
4,300.0	3.10	68.00	4,256.4	205.8	509.5	-205.8	1.00	-1.00	
4,400.0	2.10	68.00	4,356.3	207.5	513.7	-207.5	1.00	-1.00	
4,471.7	1.38	68.00	4,428.0	208.4	515.7	-208.4	1.00	-1.00	Sussex
4,500.0	1.10	68.00	4,456.3	208.6	516.3	-208.6	1.00	-1.00	
4,600.0	0.10	68.00	4,556.3	209.0	517.2	-209.0	1.00	-1.00	
4,610.0	0.00	0.00	4,566.3	209.0	517.2	-209.0	1.00	-1.00	EOD; Inc=0°
4,700.0	0.00	0.00	4,656.3	209.0	517.2	-209.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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
4,766.7	0.00	0.00	4,723.0	209.0	517.2	-209.0	0.00	0.00	Sussex Marker
4,800.0	0.00	0.00	4,756.3	209.0	517.2	-209.0	0.00	0.00	
4,900.0	0.00	0.00	4,856.3	209.0	517.2	-209.0	0.00	0.00	
5,000.0	0.00	0.00	4,956.3	209.0	517.2	-209.0	0.00	0.00	Shannon
5,100.0	0.00	0.00	5,056.3	209.0	517.2	-209.0	0.00	0.00	
5,118.7	0.00	0.00	5,075.0	209.0	517.2	-209.0	0.00	0.00	
5,200.0	0.00	0.00	5,156.3	209.0	517.2	-209.0	0.00	0.00	
5,300.0	0.00	0.00	5,256.3	209.0	517.2	-209.0	0.00	0.00	
5,400.0	0.00	0.00	5,356.3	209.0	517.2	-209.0	0.00	0.00	
5,500.0	0.00	0.00	5,456.3	209.0	517.2	-209.0	0.00	0.00	Teepee Buttes
5,600.0	0.00	0.00	5,556.3	209.0	517.2	-209.0	0.00	0.00	
5,700.0	0.00	0.00	5,656.3	209.0	517.2	-209.0	0.00	0.00	
5,800.0	0.00	0.00	5,756.3	209.0	517.2	-209.0	0.00	0.00	
5,900.0	0.00	0.00	5,856.3	209.0	517.2	-209.0	0.00	0.00	
6,000.0	0.00	0.00	5,956.3	209.0	517.2	-209.0	0.00	0.00	
6,086.7	0.00	0.00	6,043.0	209.0	517.2	-209.0	0.00	0.00	
6,100.0	0.00	0.00	6,056.3	209.0	517.2	-209.0	0.00	0.00	
6,200.0	0.00	0.00	6,156.3	209.0	517.2	-209.0	0.00	0.00	
6,300.0	0.00	0.00	6,256.3	209.0	517.2	-209.0	0.00	0.00	
6,400.0	0.00	0.00	6,356.3	209.0	517.2	-209.0	0.00	0.00	Start Build 8.00
6,500.0	0.00	0.00	6,456.3	209.0	517.2	-209.0	0.00	0.00	
6,501.5	0.00	0.00	6,457.8	209.0	517.2	-209.0	0.00	0.00	Sharon Springs
6,600.0	7.88	180.00	6,556.0	202.2	517.2	-202.2	8.00	8.00	
6,700.0	15.88	180.00	6,653.8	181.6	517.2	-181.6	8.00	8.00	
6,800.0	23.88	180.00	6,747.7	147.7	517.2	-147.7	8.00	8.00	
6,900.0	31.88	180.00	6,836.0	100.9	517.2	-100.9	8.00	8.00	
7,000.0	39.88	180.00	6,917.0	42.4	517.2	-42.4	8.00	8.00	
7,100.0	47.88	180.00	6,989.0	-26.9	517.2	26.9	8.00	8.00	
7,200.0	55.88	180.00	7,050.7	-105.5	517.2	105.5	8.00	8.00	
7,213.2	56.93	180.00	7,058.0	-116.5	517.2	116.5	8.00	8.00	
7,300.0	63.88	180.00	7,100.9	-191.9	517.2	191.9	8.00	8.00	B Chalk
7,400.0	71.88	180.00	7,138.5	-284.5	517.2	284.5	8.00	8.00	
7,479.7	78.25	180.00	7,159.0	-361.4	517.2	361.4	8.00	8.00	Niobrara
7,500.0	79.88	180.00	7,162.9	-381.4	517.2	381.4	8.00	8.00	
7,550.8	83.94	180.00	7,170.0	-431.6	517.2	431.6	8.00	8.00	LP @ 7174' TVD; 90°
7,600.0	87.88	180.00	7,173.5	-480.7	517.2	480.7	8.00	8.00	
7,626.5	90.00	180.00	7,174.0	-507.2	517.2	507.2	8.00	8.00	
7,700.0	90.00	180.00	7,174.0	-580.7	517.2	580.7	0.00	0.00	
7,800.0	90.00	180.00	7,174.0	-680.7	517.2	680.7	0.00	0.00	
7,900.0	90.00	180.00	7,174.0	-780.7	517.2	780.7	0.00	0.00	
8,000.0	90.00	180.00	7,174.0	-880.7	517.2	880.7	0.00	0.00	
8,100.0	90.00	180.00	7,174.0	-980.7	517.2	980.7	0.00	0.00	
8,200.0	90.00	180.00	7,174.0	-1,080.7	517.2	1,080.7	0.00	0.00	
8,300.0	90.00	180.00	7,174.0	-1,180.7	517.2	1,180.7	0.00	0.00	
8,400.0	90.00	180.00	7,174.0	-1,280.7	517.1	1,280.7	0.00	0.00	
8,500.0	90.00	180.00	7,174.0	-1,380.7	517.1	1,380.7	0.00	0.00	
8,600.0	90.00	180.00	7,174.0	-1,480.7	517.1	1,480.7	0.00	0.00	
8,700.0	90.00	180.00	7,174.0	-1,580.7	517.1	1,580.7	0.00	0.00	
8,800.0	90.00	180.00	7,174.0	-1,680.7	517.1	1,680.7	0.00	0.00	
8,900.0	90.00	180.00	7,174.0	-1,780.7	517.1	1,780.7	0.00	0.00	
9,000.0	90.00	180.00	7,174.0	-1,880.7	517.1	1,880.7	0.00	0.00	
9,100.0	90.00	180.00	7,174.0	-1,980.7	517.1	1,980.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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
9,200.0	90.00	180.00	7,174.0	-2,080.7	517.1	2,080.7	0.00	0.00	
9,300.0	90.00	180.00	7,174.0	-2,180.7	517.1	2,180.7	0.00	0.00	
9,400.0	90.00	180.00	7,174.0	-2,280.7	517.1	2,280.7	0.00	0.00	
9,500.0	90.00	180.00	7,174.0	-2,380.7	517.1	2,380.7	0.00	0.00	
9,600.0	90.00	180.00	7,174.0	-2,480.7	517.1	2,480.7	0.00	0.00	
9,700.0	90.00	180.00	7,174.0	-2,580.7	517.1	2,580.7	0.00	0.00	
9,800.0	90.00	180.00	7,174.0	-2,680.7	517.1	2,680.7	0.00	0.00	
9,900.0	90.00	180.00	7,174.0	-2,780.7	517.1	2,780.7	0.00	0.00	
10,000.0	90.00	180.00	7,174.0	-2,880.7	517.1	2,880.7	0.00	0.00	
10,100.0	90.00	180.00	7,174.0	-2,980.7	517.0	2,980.7	0.00	0.00	
10,200.0	90.00	180.00	7,174.0	-3,080.7	517.0	3,080.7	0.00	0.00	
10,300.0	90.00	180.00	7,174.0	-3,180.7	517.0	3,180.7	0.00	0.00	
10,400.0	90.00	180.00	7,174.0	-3,280.7	517.0	3,280.7	0.00	0.00	
10,500.0	90.00	180.00	7,174.0	-3,380.7	517.0	3,380.7	0.00	0.00	
10,600.0	90.00	180.00	7,174.0	-3,480.7	517.0	3,480.7	0.00	0.00	
10,700.0	90.00	180.00	7,174.0	-3,580.7	517.0	3,580.7	0.00	0.00	
10,800.0	90.00	180.00	7,174.0	-3,680.7	517.0	3,680.7	0.00	0.00	
10,900.0	90.00	180.00	7,174.0	-3,780.7	517.0	3,780.7	0.00	0.00	
11,000.0	90.00	180.00	7,174.0	-3,880.7	517.0	3,880.7	0.00	0.00	
11,100.0	90.00	180.00	7,174.0	-3,980.7	517.0	3,980.7	0.00	0.00	
11,200.0	90.00	180.00	7,174.0	-4,080.7	517.0	4,080.7	0.00	0.00	
11,300.0	90.00	180.00	7,174.0	-4,180.7	517.0	4,180.7	0.00	0.00	
11,400.0	90.00	180.00	7,174.0	-4,280.7	517.0	4,280.7	0.00	0.00	
11,500.0	90.00	180.00	7,174.0	-4,380.7	517.0	4,380.7	0.00	0.00	
11,600.0	90.00	180.00	7,174.0	-4,480.7	517.0	4,480.7	0.00	0.00	
11,700.0	90.00	180.00	7,174.0	-4,580.7	516.9	4,580.7	0.00	0.00	
11,701.9	90.00	180.00	7,174.0	-4,582.6	516.9	4,582.6	0.00	0.00	TD at 11701.9

Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Devore 1F-34H PBHL - plan hits target center - Point	0.00	0.00	7,174.0	-4,582.6	516.9	1,307,723.68	3,207,725.21	40.175700	-104.756630

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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				
4,471.7	4,428.0	Sussex				
4,766.7	4,723.0	Sussex Marker				
5,118.7	5,075.0	Shannon				
6,086.7	6,043.0	Teepee Buttes				
7,213.2	7,058.0	Sharon Springs				
7,479.7	7,159.0	B Chalk				
7,550.8	7,170.0	Niobrara				

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'	
1,400.0	1,394.9	32.6	80.7	EOB; Inc=10°	
3,610.0	3,571.4	176.4	436.5	Start Drop -1.00	
4,610.0	4,566.3	209.0	517.2	EOD; Inc=0°	
6,501.5	6,457.8	209.0	517.2	Start Build 8.00	
7,626.5	7,174.0	-507.2	517.2	LP @ 7174' TVD; 90°	
11,701.9	7,174.0	-4,582.6	516.9	TD at 11701.9	

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T3N-R66W (Devore)

Devore 1F-34H

Hz

Plan #1

Anticollision Report

14 March, 2013

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	11,701.1	Plan #1 (Hz)	MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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 Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation	Warning
	Measured Depth (ft)	Measured Depth (ft)	Between Centres (ft)	Between Ellipses (ft)		
S34-T3N-R66W (Devore)						
DEVORE 1 (EXISTING) - EXISTING - GYRO	8,040.2	7,169.8	430.8	402.9	15.408	CC, ES
DEVORE 1 (EXISTING) - EXISTING - GYRO	8,100.0	7,169.5	435.0	406.1	15.088	SF
Devore 1A-34H - Hz - Plan #1	200.0	200.0	50.3	49.6	77.041	CC, ES
Devore 1A-34H - Hz - Plan #1	600.0	595.7	67.2	65.2	32.918	SF
Devore 1B-34H - Hz - Plan #1	300.0	300.0	41.9	40.9	41.831	CC, ES
Devore 1B-34H - Hz - Plan #1	600.0	597.4	52.8	50.7	25.816	SF
Devore 1C-34H - Hz - Plan #1	400.0	400.0	30.7	29.4	22.749	CC, ES
Devore 1C-34H - Hz - Plan #1	11,701.9	11,883.6	1,071.8	909.3	6.597	SF
Devore 1D-34H - Hz - Plan #1	400.0	400.0	22.4	21.0	16.545	CC, ES
Devore 1D-34H - Hz - Plan #1	11,701.9	11,667.2	701.4	535.4	4.225	SF
Devore 1E-34H - Hz - Plan #1	400.0	400.0	11.2	9.8	8.273	CC, ES
Devore 1E-34H - Hz - Plan #1	11,701.9	11,888.5	412.0	268.8	2.878	SF
Devore 1G-34H - Hz - Plan #1	300.0	300.0	8.4	7.4	8.366	CC, ES
Devore 1G-34H - Hz - Plan #1	11,701.9	11,973.1	401.5	263.7	2.915	SF
Devore 1H-34H - Hz - Plan #1	200.0	200.0	19.6	18.9	29.960	CC, ES
Devore 1H-34H - Hz - Plan #1	11,701.9	11,806.5	698.6	532.8	4.213	SF
DEVORE 31-34 (EXISTING) - EXISTING - GYRO	0.0	0.0	888.2			
DEVORE 31-34 (EXISTING) - EXISTING - GYRO	2,900.0	2,868.2	1,256.4	1,248.8	165.037	SF
DEVORE 32-34 (EXISTING) - EXISTING - GYRO	8,894.7	7,168.1	986.8	945.5	23.879	CC
DEVORE 32-34 (EXISTING) - EXISTING - GYRO	8,900.0	7,168.1	986.8	945.4	23.829	ES
DEVORE 32-34 (EXISTING) - EXISTING - GYRO	9,300.0	7,167.3	1,066.8	1,018.8	22.199	SF
DEVORE 33-34 (EXISTING) - EXISTING - GYRO	10,220.3	7,248.4	1,107.4	1,043.7	17.376	CC, ES
DEVORE 33-34 (EXISTING) - EXISTING - GYRO	10,600.0	7,249.2	1,170.7	1,100.4	16.666	SF
DEVORE 3-34 (EXISTING) - EXISTING - GYRO	11,051.7	7,209.9	199.2	121.2	2.553	CC, ES, SF
DEVORE 34-34 (EXISTING) - EXISTING - GYRO	11,461.8	7,211.2	967.4	882.3	11.368	CC, ES
DEVORE 34-34 (EXISTING) - EXISTING - GYRO	11,700.0	7,211.4	996.3	907.1	11.166	SF
DEVORE 41-34 (EXISTING) - EXISTING - GYRO	7,341.6	7,104.2	245.3	225.6	12.422	CC, ES, SF
DEVORE 42-34 (EXISTING) - EXISTING - GYRO	9,212.9	7,177.7	311.8	265.1	6.679	CC, ES, SF
DEVORE 43-34 (EXISTING) - EXISTING - GYRO	10,032.5	7,193.9	64.6	4.2	1.069	Level 2, CC, ES, SF
DEVORE 44-34 (EXISTING) - EXISTING - GYRO	11,627.9	7,236.4	251.7	163.7	2.860	CC, ES, SF
DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS	3,448.4	3,448.9	245.8	228.4	14.109	CC, ES
DEVORE 6-0-34 (EXISTING) - EXISTING - SURVEYS	3,600.0	3,596.3	249.7	231.4	13.680	SF
DEVORE 6-4-34 (EXISTING) - EXISTING - SURVEYS	9,569.0	7,269.2	659.0	598.1	10.819	CC, ES
DEVORE 6-4-34 (EXISTING) - EXISTING - SURVEYS	9,700.0	7,270.4	671.9	608.7	10.643	SF
DEVORE 6-8-34 (EXISTING) - EXISTING - Plan #1	11,701.9	7,296.3	658.5	560.9	6.751	CC, ES, SF
DEVORE 6-8-34 (EXISTING) - EXISTING - Plan #2	11,701.9	7,299.5	663.1	565.6	6.799	CC, ES, SF
DEVORE 6-8-34 (EXISTING) - EXISTING - SURVEYS	11,701.9	7,303.4	648.4	551.1	6.662	CC, ES, SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 1 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	173.94	-824.3	87.4	829.0					
100.0	100.0	103.4	103.4	0.2	0.1	173.97	-823.9	87.0	828.5	828.3	0.24	3,420.067		
200.0	200.0	202.5	202.5	0.3	0.2	174.01	-823.1	86.3	827.7	827.2	0.50	1,644.197		
300.0	300.0	300.0	300.0	0.5	0.3	174.04	-822.6	85.8	827.0	826.3	0.76	1,083.936		
400.0	400.0	399.9	399.9	0.7	0.4	174.06	-822.1	85.5	826.6	825.5	1.02	806.571		
463.5	463.5	462.0	462.0	0.8	0.4	106.09	-821.9	85.4	826.4	825.2	1.19	694.472		
500.0	500.0	497.8	497.7	0.9	0.4	106.13	-821.8	85.4	826.5	825.2	1.29	643.088		
600.0	600.0	599.2	599.1	1.0	0.5	106.32	-821.5	85.1	826.9	825.4	1.55	532.979		
700.0	699.9	697.0	697.0	1.2	0.6	106.61	-821.3	84.8	827.9	826.1	1.82	454.798		
800.0	799.7	799.1	799.0	1.4	0.7	107.03	-821.1	84.5	829.4	827.3	2.10	394.604		
900.0	899.4	900.4	900.3	1.6	0.8	107.56	-820.6	84.1	831.2	828.8	2.39	347.144		
1,000.0	998.9	999.5	999.5	1.8	0.9	108.18	-820.0	83.8	833.6	830.9	2.70	308.793		
1,100.0	1,098.3	1,098.1	1,098.1	2.1	1.0	108.89	-819.5	83.6	836.7	833.7	3.02	276.974		
1,200.0	1,197.4	1,198.5	1,198.5	2.3	1.0	109.70	-819.0	83.5	840.5	837.2	3.36	250.018		
1,300.0	1,296.3	1,297.1	1,297.1	2.6	1.1	110.60	-818.5	83.3	845.1	841.4	3.72	227.113		
1,400.0	1,394.9	1,389.9	1,389.9	2.9	1.2	111.55	-818.2	82.8	850.9	846.8	4.10	207.766		
1,500.0	1,493.4	1,493.4	1,493.4	3.3	1.3	112.70	-818.1	82.3	857.4	852.9	4.48	191.296		
1,600.0	1,591.9	1,587.9	1,587.8	3.6	1.4	113.75	-817.9	81.7	864.0	859.2	4.86	177.673		
1,700.0	1,690.4	1,687.5	1,687.4	3.9	1.5	114.85	-817.8	80.7	871.3	866.0	5.25	166.011		
1,800.0	1,788.9	1,783.2	1,783.1	4.3	1.6	115.88	-817.8	80.0	878.8	873.2	5.63	156.108		
1,900.0	1,887.3	1,884.4	1,884.4	4.6	1.6	116.92	-817.8	79.8	886.7	880.7	6.01	147.462		
2,000.0	1,985.8	1,989.8	1,989.8	4.9	1.7	117.96	-817.3	80.0	894.3	887.9	6.40	139.785		
2,100.0	2,084.3	2,088.3	2,088.3	5.3	1.8	118.92	-816.5	80.2	901.8	895.0	6.78	133.099		
2,200.0	2,182.8	2,191.6	2,191.6	5.6	1.9	119.85	-815.4	81.3	909.3	902.1	7.15	127.110		
2,300.0	2,281.3	2,280.2	2,280.1	6.0	2.0	120.56	-814.9	83.4	917.2	909.6	7.52	121.944		
2,400.0	2,379.7	2,368.7	2,368.5	6.3	2.1	121.22	-815.6	85.9	926.4	918.5	7.89	117.447		
2,500.0	2,478.2	2,457.0	2,456.8	6.7	2.1	121.83	-817.3	89.0	936.9	928.7	8.25	113.503		
2,600.0	2,576.7	2,544.1	2,543.8	7.0	2.2	122.37	-820.1	92.5	948.7	940.1	8.62	110.051		
2,700.0	2,675.2	2,630.2	2,629.7	7.4	2.3	122.87	-824.1	96.2	961.9	952.9	8.99	107.049		
2,800.0	2,773.7	2,717.7	2,717.0	7.7	2.4	123.39	-829.1	99.3	976.4	967.0	9.35	104.441		
2,900.0	2,872.1	2,811.3	2,810.4	8.1	2.5	124.00	-835.0	101.3	991.8	982.1	9.71	102.130		
3,000.0	2,970.6	2,911.8	2,910.7	8.4	2.6	124.69	-841.1	102.4	1,007.4	997.4	10.07	100.018		
3,100.0	3,069.1	3,019.3	3,018.1	8.8	2.6	125.45	-846.9	103.1	1,022.6	1,012.1	10.43	98.014		
3,200.0	3,167.6	3,124.1	3,122.8	9.1	2.7	126.16	-851.7	104.1	1,037.1	1,026.3	10.79	96.115		
3,300.0	3,266.1	3,226.6	3,225.1	9.5	2.8	126.82	-856.1	105.5	1,051.3	1,040.1	11.14	94.330		
3,400.0	3,364.5	3,329.5	3,327.9	9.8	2.9	127.46	-860.0	107.0	1,065.1	1,053.6	11.50	92.648		
3,500.0	3,463.0	3,430.4	3,428.8	10.2	3.0	128.10	-863.4	108.0	1,078.8	1,066.9	11.84	91.091		
3,600.0	3,561.5	3,529.5	3,527.8	10.5	3.1	128.70	-866.7	109.4	1,092.4	1,080.2	12.19	89.635		
3,700.0	3,660.1	3,625.4	3,623.7	10.8	3.2	129.35	-869.7	110.3	1,105.7	1,093.2	12.51	88.411		
3,800.0	3,759.0	3,714.2	3,712.4	11.1	3.3	129.92	-873.0	110.5	1,118.8	1,106.0	12.80	87.383		
3,900.0	3,858.1	3,812.5	3,810.6	11.4	3.4	130.50	-876.7	109.9	1,131.2	1,118.1	13.09	86.435		
4,000.0	3,957.4	3,910.0	3,908.1	11.7	3.5	131.01	-880.4	108.8	1,142.6	1,129.3	13.36	85.558		
4,100.0	4,057.0	4,016.5	4,014.5	11.9	3.5	131.51	-883.8	107.0	1,152.7	1,139.0	13.61	84.672		
4,200.0	4,156.6	4,113.7	4,111.6	12.1	3.6	131.86	-887.0	105.8	1,161.5	1,147.6	13.86	83.813		
4,300.0	4,256.4	4,218.0	4,215.9	12.3	3.7	132.12	-890.4	105.3	1,169.0	1,154.9	14.10	82.903		
4,400.0	4,356.3	4,315.5	4,313.4	12.4	3.8	132.30	-893.6	104.9	1,175.3	1,160.9	14.33	82.025		
4,500.0	4,456.3	4,417.1	4,414.9	12.6	3.9	132.40	-897.0	104.4	1,180.4	1,165.8	14.55	81.127		
4,600.0	4,556.3	4,517.8	4,515.5	12.7	4.0	132.43	-900.2	104.0	1,184.2	1,169.5	14.76	80.232		
4,700.0	4,656.3	4,621.0	4,618.6	12.8	4.1	-159.58	-903.2	103.2	1,187.2	1,172.2	14.98	79.249		
4,800.0	4,756.3	4,723.3	4,720.9	12.9	4.2	-159.57	-905.8	102.1	1,190.0	1,174.8	15.20	78.287		
4,900.0	4,856.3	4,825.8	4,823.4	13.0	4.3	-159.54	-907.9	100.6	1,192.4	1,177.0	15.42	77.335		
5,000.0	4,956.3	4,921.3	4,918.9	13.1	4.4	-159.52	-910.1	99.3	1,195.0	1,179.4	15.63	76.441		

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 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 1 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
5,100.0	5,056.3	5,022.1	5,019.6	13.3	4.5	-159.50	-912.6	97.9	1,197.8	1,182.0	15.85	75.554		
5,200.0	5,156.3	5,127.9	5,125.4	13.4	4.5	-159.47	-914.8	96.3	1,200.4	1,184.3	16.08	74.653		
5,300.0	5,256.3	5,235.4	5,232.8	13.5	4.6	-159.47	-916.8	95.7	1,202.2	1,185.9	16.31	73.710		
5,400.0	5,356.3	5,336.3	5,333.8	13.6	4.7	-159.50	-918.4	95.7	1,203.7	1,187.2	16.54	72.787		
5,500.0	5,456.3	5,433.8	5,431.2	13.7	4.8	-159.50	-919.9	95.2	1,205.4	1,188.6	16.76	71.913		
5,600.0	5,556.3	5,536.6	5,534.1	13.9	4.9	-159.51	-921.7	94.8	1,207.2	1,190.2	16.99	71.044		
5,700.0	5,656.3	5,639.9	5,637.3	14.0	5.0	-159.52	-922.8	94.5	1,208.3	1,191.1	17.22	70.156		
5,800.0	5,756.3	5,737.5	5,734.9	14.1	5.1	-159.53	-924.4	94.1	1,209.9	1,192.4	17.45	69.334		
5,900.0	5,856.3	5,844.8	5,842.1	14.2	5.2	-159.51	-925.2	93.3	1,210.8	1,193.1	17.68	68.471		
6,000.0	5,956.3	5,941.7	5,939.1	14.4	5.3	-159.47	-925.8	92.3	1,211.8	1,193.8	17.91	67.664		
6,100.0	6,056.3	6,041.5	6,038.8	14.5	5.3	-159.44	-926.7	91.3	1,213.0	1,194.8	18.14	66.878		
6,200.0	6,156.3	6,144.3	6,141.7	14.6	5.4	-159.41	-927.3	90.3	1,213.9	1,195.5	18.37	66.085		
6,300.0	6,256.3	6,242.9	6,240.2	14.7	5.5	-159.37	-927.9	89.3	1,214.8	1,196.2	18.60	65.322		
6,400.0	6,356.3	6,343.9	6,341.3	14.9	5.6	-159.35	-928.7	88.4	1,215.8	1,197.0	18.83	64.571		
6,500.0	6,456.3	6,450.4	6,447.8	15.0	5.7	-159.33	-929.2	87.9	1,216.5	1,197.4	19.07	63.798		
6,600.0	6,556.0	6,559.0	6,556.4	15.1	5.8	20.99	-929.0	87.4	1,210.2	1,191.0	19.19	63.063		
6,700.0	6,653.8	6,671.0	6,668.3	15.1	5.9	22.05	-927.8	86.9	1,190.1	1,171.0	19.16	62.109		
6,800.0	6,747.7	6,766.3	6,763.7	15.1	6.0	23.84	-925.9	86.9	1,156.8	1,137.8	19.00	60.900		
6,900.0	6,836.0	6,852.1	6,849.4	15.2	6.0	26.56	-924.3	86.6	1,112.2	1,093.4	18.74	59.345		
7,000.0	6,917.0	6,929.9	6,927.2	15.2	6.1	30.49	-923.0	86.4	1,057.2	1,038.8	18.48	57.223		
7,100.0	6,989.0	6,997.7	6,995.0	15.4	6.2	35.98	-922.2	86.6	993.5	975.2	18.32	54.236		
7,200.0	7,050.7	7,056.6	7,053.9	15.7	6.2	43.60	-921.7	86.9	922.8	904.4	18.43	50.058		
7,300.0	7,100.9	7,104.0	7,101.3	16.1	6.3	53.62	-921.3	86.7	847.0	828.0	18.97	44.658		
7,400.0	7,138.5	7,138.6	7,135.9	16.7	6.3	65.46	-921.0	86.6	768.6	748.7	19.89	38.635		
7,500.0	7,162.9	7,161.2	7,158.5	17.4	6.3	77.54	-920.9	86.4	690.4	669.4	21.02	32.840		
7,600.0	7,173.5	7,170.9	7,168.2	18.3	6.3	87.66	-920.9	86.3	615.9	593.7	22.20	27.743		
7,700.0	7,174.0	7,171.0	7,168.3	19.3	6.3	89.77	-920.9	86.3	548.9	525.6	23.39	23.472		
7,800.0	7,174.0	7,170.7	7,167.9	20.4	6.3	89.73	-920.9	86.3	493.3	468.6	24.65	20.013		
7,900.0	7,174.0	7,170.3	7,167.6	21.6	6.3	89.68	-920.9	86.3	453.1	427.1	25.98	17.437		
8,000.0	7,174.0	7,169.9	7,167.2	22.9	6.3	89.63	-920.9	86.3	432.7	405.3	27.38	15.803		
8,040.2	7,174.0	7,169.8	7,167.0	23.5	6.3	89.61	-920.9	86.4	430.8	402.9	27.96	15.408 CC, ES		
8,100.0	7,174.0	7,169.5	7,166.8	24.3	6.3	89.58	-920.9	86.4	435.0	406.1	28.83	15.088 SF		
8,200.0	7,174.0	7,169.1	7,166.4	25.7	6.3	89.53	-920.9	86.4	459.5	429.2	30.32	15.158		
8,300.0	7,174.0	7,168.7	7,166.0	27.1	6.3	89.47	-920.9	86.4	503.1	471.3	31.84	15.802		
8,400.0	7,174.0	7,168.3	7,165.6	28.5	6.3	89.42	-920.9	86.4	561.3	527.9	33.39	16.813		
8,500.0	7,174.0	7,167.9	7,165.2	30.0	6.3	89.37	-920.9	86.4	630.1	595.1	34.96	18.024		
8,600.0	7,174.0	7,167.5	7,164.8	31.6	6.3	89.31	-920.9	86.4	706.4	669.8	36.55	19.325		
8,700.0	7,174.0	7,167.1	7,164.4	33.1	6.3	89.25	-920.9	86.4	788.0	749.8	38.16	20.649		
8,800.0	7,174.0	7,166.7	7,164.0	34.7	6.3	89.20	-920.9	86.4	873.4	833.7	39.79	21.954		
8,900.0	7,174.0	7,166.3	7,163.5	36.3	6.3	89.14	-920.9	86.4	961.7	920.3	41.42	23.217		
9,000.0	7,174.0	7,165.8	7,163.1	37.9	6.3	89.08	-920.9	86.4	1,052.1	1,009.0	43.07	24.427		
9,100.0	7,174.0	7,165.4	7,162.6	39.5	6.3	89.02	-920.9	86.4	1,144.0	1,099.3	44.73	25.579		
9,200.0	7,174.0	7,164.9	7,162.2	41.1	6.3	88.96	-920.9	86.4	1,237.2	1,190.8	46.39	26.670		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-50.3	50.3					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-50.3	50.3	50.0	0.30	165.593		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	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	-89.81	0.2	-51.1	51.1	50.1	1.00	51.086		
400.0	400.0	398.2	398.2	0.7	0.7	-89.44	0.5	-53.7	53.7	52.4	1.35	39.690		
500.0	500.0	497.1	497.0	0.9	0.9	-157.21	1.1	-57.9	58.8	57.1	1.70	34.694		
600.0	600.0	595.7	595.4	1.0	1.1	-157.39	1.9	-63.8	67.2	65.2	2.04	32.918 SF		
700.0	699.9	693.7	693.1	1.2	1.3	-157.83	3.0	-71.3	78.9	76.5	2.39	33.045		
800.0	799.7	791.2	790.1	1.4	1.5	-158.38	4.3	-80.5	93.9	91.2	2.73	34.344		
900.0	899.4	887.8	886.1	1.6	1.7	-158.94	5.8	-91.1	112.1	109.1	3.08	36.413		
1,000.0	998.9	983.4	981.0	1.8	2.0	-159.46	7.5	-103.2	133.6	130.2	3.43	39.011		
1,100.0	1,098.3	1,077.9	1,074.5	2.1	2.3	-159.92	9.4	-116.8	158.3	154.5	3.77	41.983		
1,200.0	1,197.4	1,171.2	1,166.6	2.3	2.6	-160.31	11.5	-131.6	186.1	182.0	4.12	45.224		
1,300.0	1,296.3	1,263.1	1,257.0	2.6	2.9	-160.64	13.7	-147.7	217.0	212.6	4.46	48.662		
1,400.0	1,394.9	1,353.5	1,345.8	2.9	3.2	-160.91	16.2	-164.9	251.0	246.2	4.80	52.243		
1,500.0	1,493.4	1,442.7	1,432.9	3.3	3.6	-161.21	18.7	-183.2	287.2	282.0	5.16	55.685		
1,600.0	1,591.9	1,530.7	1,518.8	3.6	3.9	-161.38	21.5	-202.6	324.8	319.3	5.51	58.940		
1,700.0	1,690.4	1,617.7	1,603.3	3.9	4.3	-161.47	24.3	-223.1	363.8	357.9	5.86	62.039		
1,800.0	1,788.9	1,703.8	1,686.6	4.3	4.7	-161.50	27.4	-244.6	404.1	397.9	6.22	65.001		
1,900.0	1,887.3	1,795.1	1,774.7	4.6	5.2	-161.51	30.6	-268.0	445.1	438.5	6.58	67.633		
2,000.0	1,985.8	1,886.3	1,862.9	4.9	5.6	-161.51	33.9	-291.4	486.0	479.1	6.94	69.980		
2,100.0	2,084.3	1,977.5	1,951.0	5.3	6.0	-161.52	37.2	-314.7	526.9	519.6	7.31	72.086		
2,200.0	2,182.8	2,068.8	2,039.1	5.6	6.5	-161.52	40.5	-338.1	567.9	560.2	7.68	73.984		
2,300.0	2,281.3	2,160.0	2,127.2	6.0	6.9	-161.52	43.8	-361.5	608.8	600.8	8.04	75.705		
2,400.0	2,379.7	2,251.2	2,215.4	6.3	7.4	-161.53	47.1	-384.9	649.8	641.4	8.41	77.270		
2,500.0	2,478.2	2,342.5	2,303.5	6.7	7.8	-161.53	50.4	-408.3	690.7	682.0	8.78	78.701		
2,600.0	2,576.7	2,433.7	2,391.6	7.0	8.3	-161.53	53.6	-431.7	731.7	722.5	9.14	80.013		
2,700.0	2,675.2	2,524.9	2,479.7	7.4	8.7	-161.54	56.9	-455.0	772.6	763.1	9.51	81.221		
2,800.0	2,773.7	2,616.2	2,567.9	7.7	9.2	-161.54	60.2	-478.4	813.6	803.7	9.88	82.337		
2,900.0	2,872.1	2,707.4	2,656.0	8.1	9.6	-161.54	63.5	-501.8	854.5	844.3	10.25	83.369		
3,000.0	2,970.6	2,798.6	2,744.1	8.4	10.1	-161.54	66.8	-525.2	895.5	884.8	10.62	84.329		
3,100.0	3,069.1	2,889.8	2,832.2	8.8	10.5	-161.54	70.1	-548.6	936.4	925.4	10.99	85.222		
3,200.0	3,167.6	2,981.1	2,920.4	9.1	11.0	-161.54	73.4	-572.0	977.3	966.0	11.36	86.055		
3,300.0	3,266.1	3,072.3	3,008.5	9.5	11.4	-161.55	76.6	-595.3	1,018.3	1,006.6	11.73	86.835		
3,400.0	3,364.5	3,163.5	3,096.6	9.8	11.9	-161.55	79.9	-618.7	1,059.2	1,047.1	12.10	87.565		
3,500.0	3,463.0	3,254.8	3,184.7	10.2	12.3	-161.55	83.2	-642.1	1,100.2	1,087.7	12.47	88.252		
3,600.0	3,561.5	3,346.0	3,272.9	10.5	12.8	-161.55	86.5	-665.5	1,141.1	1,128.3	12.84	88.897		
3,700.0	3,660.1	3,437.5	3,361.2	10.8	13.2	-161.66	89.8	-688.9	1,181.5	1,168.2	13.23	89.291		
3,800.0	3,759.0	3,529.7	3,450.3	11.1	13.7	-161.76	93.1	-712.6	1,220.3	1,206.7	13.63	89.557		
3,900.0	3,858.1	3,622.4	3,539.9	11.4	14.1	-161.82	96.5	-736.3	1,257.6	1,243.6	14.02	89.724		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	-89.95	0.0	-41.9	41.9					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-41.9	41.9	41.6	0.30	137.994		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-41.9	41.9	41.3	0.65	64.201		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-41.9	41.9	40.9	1.00	41.831	CC, ES	
400.0	400.0	399.3	399.3	0.7	0.7	-89.73	0.2	-42.8	42.8	41.4	1.35	31.666		
500.0	500.0	498.5	498.4	0.9	0.9	-157.53	0.7	-45.3	46.1	44.4	1.70	27.171		
600.0	600.0	597.4	597.3	1.0	1.0	-157.73	1.5	-49.5	52.8	50.7	2.04	25.816	SF	
700.0	699.9	695.9	695.6	1.2	1.2	-158.17	2.6	-55.3	62.8	60.4	2.39	26.235		
800.0	799.7	793.9	793.3	1.4	1.4	-158.69	4.1	-62.8	76.0	73.3	2.74	27.747		
900.0	899.4	891.1	890.1	1.6	1.7	-159.19	5.9	-71.8	92.5	89.4	3.09	29.974		
1,000.0	998.9	987.5	985.8	1.8	1.9	-159.64	7.9	-82.3	112.3	108.8	3.43	32.691		
1,100.0	1,098.3	1,082.8	1,080.3	2.1	2.1	-160.01	10.2	-94.3	135.2	131.4	3.78	35.752		
1,200.0	1,197.4	1,176.9	1,173.5	2.3	2.4	-160.32	12.8	-107.7	161.3	157.2	4.13	39.058		
1,300.0	1,296.3	1,269.8	1,265.2	2.6	2.7	-160.57	15.7	-122.3	190.6	186.1	4.48	42.540		
1,400.0	1,394.9	1,361.2	1,355.2	2.9	3.0	-160.76	18.7	-138.1	222.8	218.0	4.83	46.148		
1,500.0	1,493.4	1,451.4	1,443.7	3.3	3.3	-160.97	22.0	-155.1	257.3	252.1	5.19	49.615		
1,600.0	1,591.9	1,540.6	1,530.9	3.6	3.7	-161.05	25.6	-173.2	293.3	287.7	5.55	52.883		
1,700.0	1,690.4	1,628.8	1,616.9	3.9	4.1	-161.05	29.3	-192.5	330.6	324.7	5.90	55.982		
1,800.0	1,788.9	1,716.8	1,702.4	4.3	4.4	-161.00	33.3	-213.0	369.2	363.0	6.27	58.921		
1,900.0	1,887.3	1,808.8	1,791.7	4.6	4.8	-160.93	37.5	-234.8	408.3	401.7	6.64	61.529		
2,000.0	1,985.8	1,900.9	1,881.0	4.9	5.3	-160.88	41.8	-256.7	447.5	440.4	7.01	63.851		
2,100.0	2,084.3	1,992.9	1,970.3	5.3	5.7	-160.83	46.0	-278.5	486.6	479.2	7.38	65.931		
2,200.0	2,182.8	2,084.9	2,059.6	5.6	6.1	-160.79	50.3	-300.4	525.7	517.9	7.75	67.804		
2,300.0	2,281.3	2,177.0	2,148.9	6.0	6.5	-160.76	54.5	-322.2	564.8	556.7	8.13	69.499		
2,400.0	2,379.7	2,269.0	2,238.2	6.3	6.9	-160.73	58.8	-344.1	603.9	595.4	8.50	71.041		
2,500.0	2,478.2	2,361.0	2,327.5	6.7	7.3	-160.71	63.0	-366.0	643.0	634.2	8.88	72.448		
2,600.0	2,576.7	2,453.1	2,416.8	7.0	7.8	-160.68	67.3	-387.8	682.1	672.9	9.25	73.737		
2,700.0	2,675.2	2,545.1	2,506.1	7.4	8.2	-160.66	71.5	-409.7	721.3	711.6	9.63	74.923		
2,800.0	2,773.7	2,637.1	2,595.4	7.7	8.6	-160.65	75.8	-431.5	760.4	750.4	10.00	76.017		
2,900.0	2,872.1	2,729.2	2,684.7	8.1	9.0	-160.63	80.0	-453.4	799.5	789.1	10.38	77.029		
3,000.0	2,970.6	2,821.2	2,774.0	8.4	9.5	-160.62	84.3	-475.2	838.6	827.9	10.76	77.969		
3,100.0	3,069.1	2,913.2	2,863.3	8.8	9.9	-160.60	88.5	-497.1	877.7	866.6	11.13	78.843		
3,200.0	3,167.6	3,005.3	2,952.6	9.1	10.3	-160.59	92.8	-518.9	916.8	905.3	11.51	79.658		
3,300.0	3,266.1	3,097.3	3,041.9	9.5	10.7	-160.58	97.0	-540.8	956.0	944.1	11.89	80.420		
3,400.0	3,364.5	3,189.3	3,131.2	9.8	11.2	-160.57	101.3	-562.7	995.1	982.8	12.26	81.134		
3,500.0	3,463.0	3,281.4	3,220.5	10.2	11.6	-160.56	105.5	-584.5	1,034.2	1,021.5	12.64	81.804		
3,600.0	3,561.5	3,373.4	3,309.8	10.5	12.0	-160.55	109.8	-606.4	1,073.3	1,060.3	13.02	82.434		
3,700.0	3,660.1	3,465.7	3,399.3	10.8	12.4	-160.65	114.0	-628.3	1,111.8	1,098.4	13.42	82.838		
3,800.0	3,759.0	3,558.6	3,489.5	11.1	12.9	-160.73	118.3	-650.3	1,148.8	1,135.0	13.82	83.117		
3,900.0	3,858.1	3,652.1	3,580.2	11.4	13.3	-160.78	122.6	-672.5	1,184.2	1,170.0	14.22	83.299		
4,000.0	3,957.4	3,746.1	3,671.5	11.7	13.7	-160.80	127.0	-694.9	1,218.1	1,203.5	14.61	83.392		
4,100.0	4,057.0	3,840.7	3,763.2	11.9	14.2	-160.79	131.3	-717.3	1,250.5	1,235.5	14.99	83.405		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1C-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance				Total Uncertainty Axis	Separation Factor	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)				
0.0	0.0	0.0	0.0	0.0	0.0	-89.95	0.0	-30.7	30.7					
100.0	100.0	100.0	100.0	0.2	0.2	-89.95	0.0	-30.7	30.7	30.4	0.30	101.196		
200.0	200.0	200.0	200.0	0.3	0.3	-89.95	0.0	-30.7	30.7	30.1	0.65	47.080		
300.0	300.0	300.0	300.0	0.5	0.5	-89.95	0.0	-30.7	30.7	29.7	1.00	30.676		
400.0	400.0	400.0	400.0	0.7	0.7	-89.95	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	-158.00	0.3	-31.5	32.4	30.7	1.70	19.044		
600.0	600.0	598.8	598.7	1.0	1.0	-158.12	1.2	-34.0	37.2	35.2	2.05	18.185		
700.0	699.9	697.8	697.7	1.2	1.2	-158.26	2.7	-38.0	45.3	42.9	2.40	18.923		
800.0	799.7	796.3	796.0	1.4	1.4	-158.38	4.7	-43.6	56.7	53.9	2.75	20.641		
900.0	899.4	894.2	893.6	1.6	1.6	-158.47	7.3	-50.8	71.2	68.1	3.10	22.996		
1,000.0	998.9	991.4	990.3	1.8	1.8	-158.52	10.5	-59.4	88.9	85.5	3.45	25.780		
1,100.0	1,098.3	1,087.6	1,086.0	2.1	2.1	-158.55	14.1	-69.5	109.8	106.0	3.80	28.857		
1,200.0	1,197.4	1,182.8	1,180.4	2.3	2.3	-158.56	18.3	-80.9	133.7	129.6	4.16	32.137		
1,300.0	1,296.3	1,276.9	1,273.4	2.6	2.6	-158.55	22.9	-93.7	160.7	156.2	4.52	35.553		
1,400.0	1,394.9	1,369.6	1,365.0	2.9	2.9	-158.52	28.0	-107.6	190.8	185.9	4.88	39.057		
1,500.0	1,493.4	1,461.2	1,455.1	3.3	3.2	-158.52	33.5	-122.8	223.0	217.7	5.26	42.410		
1,600.0	1,591.9	1,551.8	1,544.1	3.6	3.5	-158.40	39.5	-139.2	256.6	251.0	5.64	45.542		
1,700.0	1,690.4	1,641.5	1,631.8	3.9	3.8	-158.20	45.8	-156.6	291.6	285.6	6.01	48.488		
1,800.0	1,788.9	1,731.7	1,719.8	4.3	4.2	-157.95	52.7	-175.4	327.9	321.5	6.40	51.246		
1,900.0	1,887.3	1,824.8	1,810.5	4.6	4.6	-157.73	59.9	-195.1	364.5	357.8	6.79	53.678		
2,000.0	1,985.8	1,917.8	1,901.1	4.9	4.9	-157.55	67.0	-214.8	401.1	394.0	7.18	55.832		
2,100.0	2,084.3	2,010.9	1,991.8	5.3	5.3	-157.39	74.2	-234.4	437.8	430.2	7.58	57.752		
2,200.0	2,182.8	2,103.9	2,082.5	5.6	5.7	-157.26	81.3	-254.1	474.4	466.4	7.98	59.473		
2,300.0	2,281.3	2,197.0	2,173.1	6.0	6.1	-157.15	88.5	-273.8	511.0	502.6	8.37	61.024		
2,400.0	2,379.7	2,290.0	2,263.8	6.3	6.5	-157.06	95.7	-293.5	547.6	538.8	8.77	62.429		
2,500.0	2,478.2	2,383.1	2,354.5	6.7	6.9	-156.98	102.8	-313.1	584.2	575.0	9.17	63.706		
2,600.0	2,576.7	2,476.2	2,445.1	7.0	7.3	-156.90	110.0	-332.8	620.8	611.2	9.57	64.873		
2,700.0	2,675.2	2,569.2	2,535.8	7.4	7.7	-156.84	117.1	-352.5	657.4	647.4	9.97	65.942		
2,800.0	2,773.7	2,662.3	2,626.5	7.7	8.1	-156.78	124.3	-372.1	694.0	683.7	10.37	66.926		
2,900.0	2,872.1	2,755.3	2,717.1	8.1	8.5	-156.73	131.4	-391.8	730.6	719.9	10.77	67.834		
3,000.0	2,970.6	2,848.4	2,807.8	8.4	8.9	-156.68	138.6	-411.5	767.3	756.1	11.17	68.674		
3,100.0	3,069.1	2,955.4	2,912.3	8.8	9.3	-156.65	146.5	-433.2	803.1	791.5	11.60	69.240		
3,200.0	3,167.6	3,064.0	3,018.8	9.1	9.7	-156.68	153.9	-453.4	837.2	825.2	12.02	69.632		
3,300.0	3,266.1	3,174.1	3,127.0	9.5	10.1	-156.75	160.6	-471.9	869.7	857.3	12.45	69.868		
3,400.0	3,364.5	3,285.4	3,237.0	9.8	10.5	-156.87	166.7	-488.6	900.4	887.6	12.87	69.965		
3,500.0	3,463.0	3,398.1	3,348.5	10.2	10.8	-157.02	172.1	-503.5	929.4	916.1	13.29	69.935		
3,600.0	3,561.5	3,511.9	3,461.5	10.5	11.1	-157.22	176.8	-516.5	956.6	942.9	13.71	69.795		
3,700.0	3,660.1	3,627.0	3,576.0	10.8	11.4	-157.51	180.8	-527.4	981.4	967.2	14.14	69.406		
3,800.0	3,759.0	3,743.7	3,692.3	11.1	11.6	-157.80	184.0	-536.3	1,002.7	988.2	14.56	68.846		
3,900.0	3,858.1	3,861.5	3,809.9	11.4	11.8	-158.06	186.5	-543.0	1,020.6	1,005.7	14.98	68.137		
4,000.0	3,957.4	3,980.4	3,928.7	11.7	12.0	-158.31	188.1	-547.5	1,035.0	1,019.7	15.38	67.289		
4,100.0	4,057.0	4,100.2	4,048.4	11.9	12.1	-158.54	188.9	-549.6	1,045.9	1,030.1	15.77	66.311		
4,200.0	4,156.6	4,208.4	4,156.6	12.1	12.2	-158.74	189.0	-549.8	1,053.5	1,037.4	16.14	65.296		
4,300.0	4,256.4	4,308.2	4,256.4	12.3	12.3	-158.88	189.0	-549.8	1,059.4	1,042.9	16.48	64.297		
4,400.0	4,356.3	4,408.1	4,356.3	12.4	12.4	-158.99	189.0	-549.8	1,063.6	1,046.8	16.81	63.267		
4,500.0	4,456.3	4,508.0	4,456.3	12.6	12.5	-159.05	189.0	-549.8	1,066.2	1,049.1	17.14	62.207		
4,600.0	4,556.3	4,608.0	4,556.3	12.7	12.7	-159.07	189.0	-549.8	1,067.2	1,049.8	17.46	61.118		
4,700.0	4,656.3	4,708.0	4,656.3	12.8	12.8	-91.07	189.0	-549.8	1,067.2	1,049.4	17.78	60.015		
4,800.0	4,756.3	4,808.0	4,756.3	12.9	12.9	-91.07	189.0	-549.8	1,067.2	1,049.1	18.10	58.948		
4,900.0	4,856.3	4,908.0	4,856.3	13.0	13.0	-91.07	189.0	-549.8	1,067.2	1,048.8	18.43	57.915		
5,000.0	4,956.3	5,008.0	4,956.3	13.1	13.1	-91.07	189.0	-549.8	1,067.2	1,048.5	18.75	56.915		
5,100.0	5,056.3	5,108.0	5,056.3	13.3	13.2	-91.07	189.0	-549.8	1,067.2	1,048.2	19.08	55.946		

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 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1C-34H - Hz - Plan #1												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							
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	5,156.3	5,208.0	5,156.3	13.4	13.3	-91.07	189.0	-549.8	1,067.2	1,047.8	19.40	55.007	
5,300.0	5,256.3	5,308.0	5,256.3	13.5	13.5	-91.07	189.0	-549.8	1,067.2	1,047.5	19.73	54.097	
5,400.0	5,356.3	5,408.0	5,356.3	13.6	13.6	-91.07	189.0	-549.8	1,067.2	1,047.2	20.06	53.215	
5,500.0	5,456.3	5,508.0	5,456.3	13.7	13.7	-91.07	189.0	-549.8	1,067.2	1,046.8	20.38	52.359	
5,600.0	5,556.3	5,608.0	5,556.3	13.9	13.8	-91.07	189.0	-549.8	1,067.2	1,046.5	20.71	51.528	
5,700.0	5,656.3	5,708.0	5,656.3	14.0	14.0	-91.07	189.0	-549.8	1,067.2	1,046.2	21.04	50.722	
5,800.0	5,756.3	5,808.0	5,756.3	14.1	14.1	-91.07	189.0	-549.8	1,067.2	1,045.9	21.37	49.939	
5,900.0	5,856.3	5,908.0	5,856.3	14.2	14.2	-91.07	189.0	-549.8	1,067.2	1,045.5	21.70	49.178	
6,000.0	5,956.3	6,008.0	5,956.3	14.4	14.3	-91.07	189.0	-549.8	1,067.2	1,045.2	22.03	48.439	
6,100.0	6,056.3	6,108.0	6,056.3	14.5	14.5	-91.07	189.0	-549.8	1,067.2	1,044.9	22.36	47.721	
6,200.0	6,156.3	6,208.0	6,156.3	14.6	14.6	-91.07	189.0	-549.8	1,067.2	1,044.5	22.70	47.023	
6,300.0	6,256.3	6,308.0	6,256.3	14.7	14.7	-91.07	189.0	-549.8	1,067.2	1,044.2	23.03	46.344	
6,400.0	6,356.3	6,408.0	6,356.3	14.9	14.8	-91.07	189.0	-549.8	1,067.2	1,043.9	23.36	45.683	
6,500.0	6,456.3	6,508.0	6,456.3	15.0	15.0	-91.07	189.0	-549.8	1,067.2	1,043.5	23.70	45.040	
6,600.0	6,556.0	6,607.7	6,556.0	15.1	15.1	89.29	189.0	-549.8	1,067.1	1,043.1	23.98	44.504	
6,671.5	6,626.2	6,677.9	6,626.2	15.1	15.2	90.00	189.0	-549.8	1,067.0	1,042.9	24.14	44.210	
6,700.0	6,653.8	6,705.5	6,653.8	15.1	15.2	90.37	189.0	-549.8	1,067.1	1,042.9	24.20	44.100	
6,800.0	6,747.7	6,803.8	6,751.9	15.1	15.3	91.89	184.5	-549.8	1,067.7	1,043.3	24.34	43.865	
6,900.0	6,836.0	6,906.7	6,853.0	15.2	15.4	93.42	165.7	-549.8	1,069.1	1,044.7	24.42	43.772	
7,000.0	6,917.0	7,014.7	6,955.0	15.2	15.5	94.93	130.6	-549.8	1,071.3	1,046.8	24.52	43.685	
7,100.0	6,989.0	7,128.2	7,055.3	15.4	15.5	96.37	77.6	-549.8	1,074.2	1,049.4	24.74	43.421	
7,200.0	7,050.7	7,247.7	7,150.4	15.7	15.6	97.73	5.5	-549.8	1,077.4	1,052.2	25.18	42.781	
7,300.0	7,100.9	7,373.4	7,236.1	16.1	15.9	98.94	-86.2	-549.8	1,080.7	1,054.7	26.00	41.561	
7,400.0	7,138.5	7,505.0	7,307.1	16.7	16.4	99.97	-196.7	-549.8	1,083.8	1,056.5	27.30	39.708	
7,500.0	7,162.9	7,641.7	7,358.3	17.4	17.2	100.75	-323.3	-549.8	1,086.3	1,057.2	29.12	37.301	
7,600.0	7,173.5	7,782.3	7,384.9	18.3	18.4	101.24	-461.1	-549.8	1,087.9	1,056.5	31.46	34.584	
7,700.0	7,174.0	7,902.0	7,388.0	19.3	19.6	101.34	-580.7	-549.8	1,088.2	1,054.3	33.93	32.076	
7,800.0	7,174.0	8,002.0	7,388.0	20.4	20.7	101.34	-680.7	-549.8	1,088.2	1,051.9	36.38	29.912	
7,900.0	7,174.0	8,102.0	7,388.0	21.6	21.9	101.34	-780.7	-549.8	1,088.2	1,049.2	38.99	27.913	
8,000.0	7,174.0	8,202.0	7,388.0	22.9	23.2	101.34	-880.7	-549.8	1,088.2	1,046.5	41.71	26.089	
8,100.0	7,174.0	8,302.0	7,388.0	24.3	24.5	101.34	-980.7	-549.8	1,088.2	1,043.7	44.54	24.435	
8,200.0	7,174.0	8,402.0	7,388.0	25.7	25.9	101.34	-1,080.7	-549.8	1,088.2	1,040.8	47.44	22.938	
8,300.0	7,174.0	8,502.0	7,388.0	27.1	27.3	101.34	-1,180.7	-549.8	1,088.2	1,037.8	50.42	21.585	
8,400.0	7,174.0	8,602.0	7,388.0	28.5	28.7	101.34	-1,280.7	-549.8	1,088.2	1,034.8	53.44	20.361	
8,500.0	7,174.0	8,702.0	7,388.0	30.0	30.2	101.34	-1,380.7	-549.8	1,088.2	1,031.7	56.52	19.253	
8,600.0	7,174.0	8,802.0	7,388.0	31.6	31.7	101.34	-1,480.7	-549.8	1,088.2	1,028.6	59.64	18.247	
8,700.0	7,174.0	8,902.0	7,388.0	33.1	33.3	101.34	-1,580.7	-549.8	1,088.2	1,025.4	62.79	17.331	
8,800.0	7,174.0	9,002.0	7,388.0	34.7	34.8	101.34	-1,680.7	-549.8	1,088.2	1,022.2	65.97	16.496	
8,900.0	7,174.0	9,102.0	7,388.0	36.3	36.4	101.34	-1,780.7	-549.8	1,088.2	1,019.0	69.17	15.732	
9,000.0	7,174.0	9,202.0	7,388.0	37.9	38.0	101.34	-1,880.7	-549.8	1,088.2	1,015.8	72.40	15.031	
9,100.0	7,174.0	9,302.0	7,388.0	39.5	39.6	101.34	-1,980.7	-549.8	1,088.2	1,012.5	75.64	14.386	
9,200.0	7,174.0	9,402.0	7,388.0	41.1	41.2	101.34	-2,080.7	-549.8	1,088.2	1,009.3	78.90	13.791	
9,300.0	7,174.0	9,514.2	7,388.0	42.7	43.1	101.34	-2,192.9	-549.4	1,087.8	1,005.5	82.38	13.206	
9,400.0	7,174.0	9,637.0	7,388.0	44.4	45.1	101.37	-2,315.7	-546.7	1,085.7	999.6	86.03	12.619	
9,500.0	7,174.0	9,739.1	7,388.0	46.0	46.7	101.41	-2,417.7	-543.2	1,082.2	992.9	89.36	12.111	
9,600.0	7,174.0	9,839.0	7,388.0	47.7	48.4	101.45	-2,517.6	-539.7	1,078.8	986.2	92.66	11.643	
9,700.0	7,174.0	9,939.0	7,388.0	49.3	50.0	101.48	-2,617.5	-536.2	1,075.4	979.4	95.96	11.206	
9,800.0	7,174.0	10,038.9	7,388.0	51.0	51.7	101.52	-2,717.4	-532.7	1,072.0	972.7	99.28	10.798	
9,900.0	7,174.0	10,138.8	7,388.0	52.7	53.4	101.56	-2,817.2	-529.2	1,068.5	965.9	102.60	10.415	
10,000.0	7,174.0	10,238.8	7,388.0	54.4	55.0	101.60	-2,917.1	-525.7	1,065.1	959.2	105.92	10.056	
10,100.0	7,174.0	10,338.7	7,388.0	56.1	56.7	101.63	-3,017.0	-522.2	1,061.7	952.4	109.25	9.718	
10,200.0	7,174.0	10,438.7	7,388.0	57.8	58.4	101.67	-3,116.9	-518.7	1,058.3	945.7	112.59	9.399	

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 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1C-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program:		0-MWD											Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty Axis	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)				
10,300.0	7,174.0	10,538.6	7,388.0	59.4	60.1	101.71	-3,216.8	-515.3	1,054.9	938.9	115.93	9.099		
10,400.0	7,174.0	10,624.8	7,388.0	61.1	61.5	101.74	-3,302.9	-512.8	1,052.0	933.0	119.05	8.837		
10,500.0	7,174.0	10,709.6	7,388.0	62.8	63.0	101.75	-3,387.7	-511.6	1,050.6	928.5	122.15	8.601		
10,537.3	7,174.0	10,741.2	7,388.0	63.5	63.5	101.75	-3,419.3	-511.4	1,050.5	927.2	123.31	8.519		
10,600.0	7,174.0	10,800.0	7,388.0	64.5	64.5	101.75	-3,478.1	-511.7	1,050.7	925.3	125.35	8.382		
10,700.0	7,174.0	10,881.9	7,388.0	66.3	65.9	101.74	-3,560.0	-512.9	1,052.2	923.7	128.43	8.193		
10,800.0	7,174.0	10,981.9	7,388.0	68.0	67.6	101.71	-3,660.0	-515.0	1,054.1	922.3	131.81	7.997		
10,900.0	7,174.0	11,081.9	7,388.0	69.7	69.3	101.69	-3,759.9	-517.0	1,056.1	920.9	135.20	7.811		
11,000.0	7,174.0	11,181.9	7,388.0	71.4	71.1	101.67	-3,859.9	-519.0	1,058.0	919.4	138.59	7.635		
11,100.0	7,174.0	11,281.9	7,388.0	73.1	72.8	101.65	-3,959.9	-521.0	1,060.0	918.0	141.98	7.466		
11,200.0	7,174.0	11,381.8	7,388.0	74.8	74.5	101.63	-4,059.8	-523.0	1,062.0	916.6	145.37	7.305		
11,300.0	7,174.0	11,481.8	7,388.0	76.5	76.2	101.60	-4,159.8	-525.0	1,063.9	915.1	148.77	7.151		
11,400.0	7,174.0	11,581.8	7,388.0	78.3	77.9	101.58	-4,259.7	-527.0	1,065.9	913.7	152.17	7.004		
11,500.0	7,174.0	11,681.8	7,388.0	80.0	79.7	101.56	-4,359.7	-529.0	1,067.8	912.3	155.58	6.864		
11,600.0	7,174.0	11,781.8	7,388.0	81.7	81.4	101.54	-4,459.7	-531.0	1,069.8	910.8	158.99	6.729		
11,700.0	7,174.0	11,881.7	7,388.0	83.4	83.1	101.52	-4,559.6	-533.0	1,071.8	909.4	162.39	6.600		
11,701.9	7,174.0	11,883.6	7,388.0	83.5	83.1	101.52	-4,561.5	-533.1	1,071.8	909.3	162.46	6.597 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)						
0.0	0.0	0.0	0.0	0.0	0.0	-89.96	0.0	-22.4	22.4					
100.0	100.0	100.0	100.0	0.2	0.2	-89.96	0.0	-22.4	22.4	22.0	0.30	73.597		
200.0	200.0	200.0	200.0	0.3	0.3	-89.96	0.0	-22.4	22.4	21.7	0.65	34.240		
300.0	300.0	300.0	300.0	0.5	0.5	-89.96	0.0	-22.4	22.4	21.3	1.00	22.310		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-22.4	22.4	21.0	1.35	16.545 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-158.76	0.0	-22.4	23.2	21.5	1.70	13.626		
600.0	600.0	599.7	599.7	1.0	1.0	-159.33	0.7	-22.9	26.1	24.1	2.05	12.760		
700.0	699.9	699.2	699.2	1.2	1.2	-158.37	2.7	-24.5	31.8	29.4	2.40	13.263		
800.0	799.7	798.5	798.3	1.4	1.4	-156.72	6.1	-27.2	40.2	37.5	2.75	14.605		
900.0	899.4	897.3	897.0	1.6	1.6	-154.97	10.7	-31.0	51.3	48.2	3.11	16.490		
1,000.0	998.9	995.6	995.0	1.8	1.8	-153.39	16.7	-35.8	65.2	61.8	3.48	18.729		
1,100.0	1,098.3	1,093.4	1,092.3	2.1	2.0	-152.05	23.9	-41.7	81.9	78.0	3.86	21.194		
1,200.0	1,197.4	1,190.4	1,188.7	2.3	2.2	-150.93	32.3	-48.5	101.2	97.0	4.25	23.791		
1,300.0	1,296.3	1,286.5	1,284.1	2.6	2.5	-149.99	41.9	-56.3	123.3	118.6	4.66	26.451		
1,400.0	1,394.9	1,381.8	1,378.3	2.9	2.7	-149.21	52.6	-65.0	148.0	142.9	5.08	29.124		
1,500.0	1,493.4	1,476.2	1,471.5	3.3	3.0	-148.53	64.5	-74.6	174.6	169.1	5.52	31.626		
1,600.0	1,591.9	1,571.7	1,565.6	3.6	3.3	-147.80	77.3	-85.0	202.1	196.2	5.97	33.841		
1,700.0	1,690.4	1,667.8	1,660.2	3.9	3.6	-147.23	90.3	-95.5	229.7	223.3	6.43	35.717		
1,800.0	1,788.9	1,764.0	1,754.9	4.3	3.9	-146.78	103.3	-106.0	257.3	250.4	6.89	37.322		
1,900.0	1,887.3	1,860.1	1,849.5	4.6	4.3	-146.43	116.3	-116.5	284.9	277.5	7.36	38.708		
2,000.0	1,985.8	1,956.2	1,944.2	4.9	4.6	-146.13	129.2	-127.0	312.5	304.6	7.83	39.917		
2,100.0	2,084.3	2,055.7	2,042.3	5.3	4.9	-145.93	142.3	-137.5	339.7	331.4	8.30	40.925		
2,200.0	2,182.8	2,157.1	2,142.5	5.6	5.2	-145.94	154.2	-147.2	365.7	356.9	8.77	41.706		
2,300.0	2,281.3	2,259.2	2,243.6	6.0	5.5	-146.11	164.9	-155.9	390.4	381.1	9.23	42.304		
2,400.0	2,379.7	2,361.9	2,345.7	6.3	5.7	-146.44	174.2	-163.4	413.7	404.0	9.68	42.751		
2,500.0	2,478.2	2,465.3	2,448.5	6.7	6.0	-146.89	182.1	-169.8	435.7	425.6	10.11	43.075		
2,600.0	2,576.7	2,569.1	2,552.0	7.0	6.2	-147.46	188.6	-175.1	456.4	445.9	10.54	43.298		
2,700.0	2,675.2	2,673.5	2,656.2	7.4	6.4	-148.13	193.7	-179.2	475.8	464.8	10.95	43.441		
2,800.0	2,773.7	2,778.2	2,760.8	7.7	6.6	-148.90	197.3	-182.1	493.9	482.6	11.35	43.519		
2,900.0	2,872.1	2,883.3	2,865.9	8.1	6.7	-149.76	199.5	-183.8	510.8	499.1	11.73	43.545		
3,000.0	2,970.6	2,988.1	2,970.6	8.4	6.9	-150.71	200.1	-184.4	526.5	514.4	12.10	43.530		
3,100.0	3,069.1	3,086.5	3,069.1	8.8	7.0	-151.61	200.1	-184.4	541.8	529.3	12.45	43.530		
3,200.0	3,167.6	3,185.0	3,167.6	9.1	7.1	-152.45	200.1	-184.4	557.2	544.4	12.79	43.551		
3,300.0	3,266.1	3,283.5	3,266.1	9.5	7.3	-153.25	200.1	-184.4	572.7	559.5	13.14	43.588		
3,400.0	3,364.5	3,382.0	3,364.5	9.8	7.4	-154.01	200.1	-184.4	588.3	574.8	13.48	43.638		
3,500.0	3,463.0	3,480.5	3,463.0	10.2	7.6	-154.73	200.1	-184.4	604.0	590.1	13.82	43.699		
3,600.0	3,561.5	3,578.9	3,561.5	10.5	7.7	-155.42	200.1	-184.4	619.8	605.6	14.16	43.769		
3,700.0	3,660.1	3,677.5	3,660.1	10.8	7.8	-156.10	200.1	-184.4	635.0	620.5	14.51	43.768		
3,800.0	3,759.0	3,776.4	3,759.0	11.1	8.0	-156.69	200.1	-184.4	648.7	633.9	14.85	43.678		
3,900.0	3,858.1	3,875.5	3,858.1	11.4	8.1	-157.19	200.1	-184.4	660.9	645.7	15.19	43.505		
4,000.0	3,957.4	3,974.9	3,957.4	11.7	8.3	-157.61	200.1	-184.4	671.5	656.0	15.53	43.250		
4,100.0	4,057.0	4,074.4	4,057.0	11.9	8.4	-157.95	200.1	-184.4	680.6	664.7	15.86	42.917		
4,200.0	4,156.6	4,174.1	4,156.6	12.1	8.6	-158.23	200.1	-184.4	688.0	671.8	16.18	42.510		
4,300.0	4,256.4	4,273.9	4,256.4	12.3	8.7	-158.45	200.1	-184.4	693.8	677.3	16.51	42.030		
4,400.0	4,356.3	4,373.8	4,356.3	12.4	8.8	-158.60	200.1	-184.4	698.1	681.2	16.83	41.482		
4,500.0	4,456.3	4,473.7	4,456.3	12.6	9.0	-158.69	200.1	-184.4	700.7	683.5	17.14	40.868		
4,600.0	4,556.3	4,573.7	4,556.3	12.7	9.2	-158.73	200.1	-184.4	701.6	684.2	17.46	40.192		
4,700.0	4,656.3	4,673.7	4,656.3	12.8	9.3	-90.73	200.1	-184.4	701.7	683.9	17.78	39.471		
4,800.0	4,756.3	4,773.7	4,756.3	12.9	9.5	-90.73	200.1	-184.4	701.7	683.6	18.10	38.771		
4,900.0	4,856.3	4,873.7	4,856.3	13.0	9.6	-90.73	200.1	-184.4	701.7	683.2	18.42	38.094		
5,000.0	4,956.3	4,973.7	4,956.3	13.1	9.8	-90.73	200.1	-184.4	701.7	682.9	18.74	37.437		
5,100.0	5,056.3	5,073.7	5,056.3	13.3	9.9	-90.73	200.1	-184.4	701.7	682.6	19.07	36.802		

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 1F-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 1F-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		
5,200.0	5,156.3	5,173.7	5,156.3	13.4	10.1	-90.73	200.1	-184.4	701.7	682.3	19.39	36.185		
5,300.0	5,256.3	5,273.7	5,256.3	13.5	10.2	-90.73	200.1	-184.4	701.7	681.9	19.72	35.588		
5,400.0	5,356.3	5,373.7	5,356.3	13.6	10.4	-90.73	200.1	-184.4	701.7	681.6	20.04	35.008		
5,500.0	5,456.3	5,473.7	5,456.3	13.7	10.5	-90.73	200.1	-184.4	701.7	681.3	20.37	34.446		
5,600.0	5,556.3	5,573.7	5,556.3	13.9	10.7	-90.73	200.1	-184.4	701.7	681.0	20.70	33.901		
5,700.0	5,656.3	5,673.7	5,656.3	14.0	10.9	-90.73	200.1	-184.4	701.7	680.6	21.03	33.371		
5,800.0	5,756.3	5,773.7	5,756.3	14.1	11.0	-90.73	200.1	-184.4	701.7	680.3	21.35	32.857		
5,900.0	5,856.3	5,873.7	5,856.3	14.2	11.2	-90.73	200.1	-184.4	701.7	680.0	21.68	32.357		
6,000.0	5,956.3	5,973.7	5,956.3	14.4	11.3	-90.73	200.1	-184.4	701.7	679.6	22.01	31.872		
6,100.0	6,056.3	6,073.7	6,056.3	14.5	11.5	-90.73	200.1	-184.4	701.7	679.3	22.35	31.400		
6,200.0	6,156.3	6,173.7	6,156.3	14.6	11.7	-90.73	200.1	-184.4	701.7	679.0	22.68	30.941		
6,300.0	6,256.3	6,273.7	6,256.3	14.7	11.8	-90.73	200.1	-184.4	701.7	678.6	23.01	30.494		
6,400.0	6,356.3	6,373.7	6,356.3	14.9	12.0	-90.73	200.1	-184.4	701.7	678.3	23.34	30.060		
6,464.7	6,421.0	6,438.4	6,421.0	15.0	12.1	-90.73	200.1	-184.4	701.7	678.1	23.56	29.785		
6,500.0	6,456.3	6,473.6	6,456.2	15.0	12.1	-90.73	200.1	-184.4	701.7	678.0	23.67	29.639		
6,600.0	6,556.0	6,571.5	6,553.7	15.1	12.3	89.20	192.7	-184.4	701.7	677.8	23.90	29.366		
6,700.0	6,653.8	6,669.3	6,649.2	15.1	12.3	89.14	172.0	-184.6	701.9	677.9	24.01	29.236		
6,800.0	6,747.7	6,767.0	6,741.0	15.1	12.3	89.10	138.6	-184.9	702.2	678.2	24.07	29.178		
6,900.0	6,836.0	6,864.8	6,827.4	15.2	12.4	89.08	93.1	-185.3	702.6	678.5	24.14	29.101		
7,000.0	6,917.0	6,962.5	6,906.8	15.2	12.5	89.07	36.2	-185.8	703.1	678.8	24.33	28.898		
7,100.0	6,989.0	7,060.4	6,977.8	15.4	12.7	89.09	-31.1	-186.4	703.7	679.0	24.72	28.463		
7,200.0	7,050.7	7,158.4	7,039.0	15.7	13.0	89.12	-107.5	-187.0	704.4	679.0	25.41	27.724		
7,300.0	7,100.9	7,256.5	7,089.3	16.1	13.5	89.16	-191.6	-187.8	705.1	678.6	26.44	26.668		
7,400.0	7,138.5	7,354.8	7,127.6	16.7	14.2	89.22	-282.0	-188.6	705.9	678.0	27.85	25.348		
7,500.0	7,162.9	7,453.3	7,153.3	17.4	15.0	89.30	-377.1	-189.4	706.7	677.1	29.61	23.865		
7,600.0	7,173.5	7,552.1	7,165.8	18.3	16.1	89.39	-475.0	-190.3	707.5	675.8	31.69	22.329		
7,700.0	7,174.0	7,651.6	7,167.0	19.3	17.2	89.43	-574.5	-191.1	708.4	674.4	34.02	20.822		
7,800.0	7,174.0	7,751.6	7,167.0	20.4	18.4	89.43	-674.5	-192.0	709.2	672.7	36.54	19.412		
7,900.0	7,174.0	7,851.6	7,167.0	21.6	19.8	89.43	-774.5	-192.9	710.1	670.9	39.21	18.112		
8,000.0	7,174.0	7,951.6	7,167.0	22.9	21.1	89.43	-874.5	-193.7	711.0	669.0	42.00	16.928		
8,100.0	7,174.0	8,051.6	7,167.0	24.3	22.6	89.43	-974.5	-194.6	711.8	666.9	44.89	15.857		
8,200.0	7,174.0	8,151.6	7,167.0	25.7	24.1	89.43	-1,074.5	-195.5	712.7	664.8	47.87	14.889		
8,300.0	7,174.0	8,251.6	7,167.0	27.1	25.6	89.44	-1,174.5	-196.4	713.6	662.7	50.91	14.016		
8,400.0	7,174.0	8,351.6	7,167.0	28.5	27.1	89.44	-1,274.5	-197.2	714.4	660.4	54.01	13.228		
8,500.0	7,174.0	8,451.6	7,167.0	30.0	28.7	89.44	-1,374.5	-198.1	715.3	658.1	57.16	12.514		
8,600.0	7,174.0	8,551.6	7,167.0	31.6	30.3	89.44	-1,474.5	-199.0	716.2	655.8	60.35	11.868		
8,700.0	7,174.0	8,651.6	7,167.0	33.1	31.9	89.44	-1,574.4	-199.9	717.0	653.5	63.57	11.280		
8,800.0	7,174.0	8,751.6	7,167.0	34.7	33.5	89.44	-1,674.4	-200.7	717.9	651.1	66.82	10.744		
8,900.0	7,174.0	8,851.6	7,167.0	36.3	35.1	89.44	-1,774.4	-201.6	718.8	648.7	70.09	10.255		
9,000.0	7,174.0	8,951.6	7,167.0	37.9	36.8	89.44	-1,874.4	-202.5	719.6	646.3	73.39	9.806		
9,100.0	7,174.0	9,051.6	7,167.0	39.5	38.4	89.44	-1,974.4	-203.3	720.5	643.8	76.70	9.393		
9,200.0	7,174.0	9,151.6	7,167.0	41.1	40.1	89.44	-2,074.4	-204.2	721.4	641.3	80.03	9.013		
9,300.0	7,174.0	9,251.6	7,167.0	42.7	41.7	89.44	-2,174.4	-205.1	722.2	638.9	83.38	8.662		
9,400.0	7,174.0	9,351.6	7,167.0	44.4	43.4	89.44	-2,274.4	-206.0	723.1	636.4	86.74	8.337		
9,500.0	7,174.0	9,451.6	7,167.0	46.0	45.1	89.44	-2,374.4	-206.8	724.0	633.9	90.11	8.034		
9,600.0	7,174.0	9,551.6	7,167.0	47.7	46.8	89.44	-2,474.4	-207.7	724.8	631.4	93.49	7.753		
9,700.0	7,174.0	9,660.0	7,167.0	49.3	48.6	89.44	-2,582.8	-208.3	725.4	628.3	97.02	7.476		
9,800.0	7,174.0	9,766.6	7,167.0	51.0	50.4	89.44	-2,689.4	-207.2	724.4	623.8	100.53	7.205		
9,900.0	7,174.0	9,866.6	7,167.0	52.7	52.1	89.44	-2,789.4	-206.0	723.2	619.2	103.94	6.958		
10,000.0	7,174.0	9,966.6	7,167.0	54.4	53.8	89.44	-2,889.4	-204.8	722.0	614.6	107.35	6.725		
10,100.0	7,174.0	10,066.6	7,167.0	56.1	55.5	89.44	-2,989.3	-203.6	720.8	610.0	110.77	6.507		
10,200.0	7,174.0	10,166.6	7,167.0	57.8	57.2	89.44	-3,089.3	-202.4	719.5	605.4	114.19	6.301		

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 1F-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 1F-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
10,300.0	7,174.0	10,266.6	7,167.0	59.4	59.0	89.44	-3,189.3	-201.2	718.3	600.7	117.62	6.107	
10,400.0	7,174.0	10,366.5	7,167.0	61.1	60.7	89.44	-3,289.3	-200.0	717.1	596.1	121.05	5.924	
10,500.0	7,174.0	10,466.5	7,167.0	62.8	62.4	89.44	-3,389.3	-198.8	715.9	591.4	124.49	5.751	
10,600.0	7,174.0	10,566.5	7,167.0	64.5	64.1	89.44	-3,489.3	-197.6	714.7	586.8	127.93	5.587	
10,700.0	7,174.0	10,666.5	7,167.0	66.3	65.8	89.44	-3,589.3	-196.4	713.5	582.1	131.37	5.431	
10,800.0	7,174.0	10,766.5	7,167.0	68.0	67.5	89.44	-3,689.2	-195.2	712.3	577.5	134.82	5.283	
10,900.0	7,174.0	10,866.5	7,167.0	69.7	69.3	89.43	-3,789.2	-194.0	711.1	572.8	138.27	5.143	
11,000.0	7,174.0	10,966.5	7,167.0	71.4	71.0	89.43	-3,889.2	-192.8	709.9	568.2	141.73	5.009	
11,100.0	7,174.0	11,066.5	7,167.0	73.1	72.7	89.43	-3,989.2	-191.6	708.7	563.5	145.18	4.881	
11,200.0	7,174.0	11,166.5	7,167.0	74.8	74.4	89.43	-4,089.2	-190.4	707.5	558.9	148.64	4.760	
11,300.0	7,174.0	11,266.5	7,167.0	76.5	76.2	89.43	-4,189.2	-189.2	706.3	554.2	152.10	4.644	
11,400.0	7,174.0	11,366.5	7,167.0	78.3	77.9	89.43	-4,289.2	-188.0	705.1	549.5	155.56	4.532	
11,500.0	7,174.0	11,466.5	7,167.0	80.0	79.6	89.43	-4,389.1	-186.8	703.9	544.9	159.03	4.426	
11,600.0	7,174.0	11,566.5	7,167.0	81.7	81.4	89.43	-4,489.1	-185.6	702.7	540.2	162.50	4.324	
11,700.0	7,174.0	11,666.5	7,167.0	83.4	83.1	89.43	-4,589.1	-184.4	701.5	535.5	165.96	4.227	
11,701.9	7,174.0	11,667.2	7,167.0	83.5	83.1	89.43	-4,589.9	-184.4	701.4	535.4	166.01	4.225 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	-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		
400.0	400.0	400.0	400.0	0.7	0.7	-89.96	0.0	-11.2	11.2	9.8	1.35	8.273 CC, ES		
500.0	500.0	500.0	500.0	0.9	0.8	-159.52	0.0	-11.2	12.0	10.3	1.70	7.053		
600.0	600.0	600.0	600.0	1.0	1.0	-163.14	0.0	-11.2	14.5	12.4	2.05	7.063		
700.0	699.9	700.1	700.1	1.2	1.2	-165.21	0.7	-10.6	18.0	15.6	2.40	7.521		
800.0	799.7	800.3	800.2	1.4	1.4	-164.66	2.7	-8.9	22.0	19.3	2.75	8.006		
900.0	899.4	900.5	900.3	1.6	1.6	-162.69	6.0	-6.1	26.4	23.3	3.10	8.504		
1,000.0	998.9	1,000.7	1,000.4	1.8	1.8	-159.98	10.7	-2.1	31.3	27.8	3.47	9.012		
1,100.0	1,098.3	1,100.9	1,100.3	2.1	2.0	-156.94	16.7	3.0	36.7	32.8	3.85	9.525		
1,200.0	1,197.4	1,201.2	1,200.1	2.3	2.2	-153.80	24.0	9.2	42.7	38.4	4.25	10.030		
1,300.0	1,296.3	1,301.4	1,299.6	2.6	2.4	-150.71	32.7	16.6	49.3	44.6	4.69	10.516		
1,400.0	1,394.9	1,401.5	1,398.9	2.9	2.7	-147.76	42.6	25.1	56.6	51.5	5.16	10.967		
1,500.0	1,493.4	1,501.7	1,498.0	3.3	2.9	-144.58	53.9	34.7	64.0	58.3	5.69	11.241		
1,600.0	1,591.9	1,601.9	1,596.8	3.6	3.2	-140.77	66.5	45.5	70.8	64.5	6.28	11.267		
1,700.0	1,690.4	1,701.5	1,694.9	3.9	3.6	-137.08	79.7	56.7	77.6	70.7	6.91	11.225		
1,800.0	1,788.9	1,801.2	1,793.1	4.3	3.9	-133.99	92.9	67.9	84.6	77.0	7.55	11.197		
1,900.0	1,887.3	1,900.9	1,891.2	4.6	4.2	-131.38	106.1	79.1	91.8	83.6	8.21	11.182		
2,000.0	1,985.8	2,000.5	1,989.4	4.9	4.5	-129.15	119.3	90.3	99.2	90.4	8.88	11.176		
2,100.0	2,084.3	2,100.2	2,087.5	5.3	4.8	-127.24	132.4	101.5	106.8	97.2	9.55	11.177		
2,200.0	2,182.8	2,199.7	2,185.6	5.6	5.2	-125.64	145.5	112.6	114.4	104.2	10.22	11.192		
2,300.0	2,281.3	2,299.1	2,283.7	6.0	5.5	-124.91	157.5	122.8	122.3	111.5	10.85	11.277		
2,400.0	2,379.7	2,398.5	2,382.1	6.3	5.8	-125.03	168.2	131.9	130.5	119.1	11.42	11.421		
2,500.0	2,478.2	2,497.8	2,480.6	6.7	6.0	-125.83	177.5	139.9	138.9	126.9	11.95	11.621		
2,600.0	2,576.7	2,596.9	2,579.2	7.0	6.3	-127.20	185.6	146.8	147.6	135.2	12.43	11.878		
2,700.0	2,675.2	2,695.9	2,677.8	7.4	6.5	-129.04	192.3	152.5	156.7	143.9	12.84	12.202		
2,800.0	2,773.7	2,794.6	2,776.2	7.7	6.7	-131.24	197.8	157.1	166.4	153.2	13.21	12.601		
2,900.0	2,872.1	2,893.0	2,874.5	8.1	6.9	-133.72	201.9	160.7	176.8	163.3	13.51	13.086		
3,000.0	2,970.6	2,991.1	2,972.4	8.4	7.0	-136.41	204.7	163.1	188.0	174.2	13.76	13.666		
3,100.0	3,069.1	3,088.7	3,070.0	8.8	7.2	-139.23	206.3	164.4	200.2	186.3	13.95	14.350		
3,200.0	3,167.6	3,186.2	3,167.6	9.1	7.3	-142.11	206.6	164.7	213.6	199.5	14.11	15.134		
3,300.0	3,266.1	3,284.7	3,266.1	9.5	7.4	-144.78	206.6	164.7	227.6	213.3	14.27	15.949		
3,400.0	3,364.5	3,383.2	3,364.5	9.8	7.6	-147.14	206.6	164.7	242.1	227.6	14.44	16.761		
3,500.0	3,463.0	3,481.7	3,463.0	10.2	7.7	-149.24	206.6	164.7	256.9	242.2	14.63	17.562		
3,600.0	3,561.5	3,580.2	3,561.5	10.5	7.8	-151.10	206.6	164.7	272.0	257.2	14.82	18.348		
3,700.0	3,660.1	3,678.8	3,660.1	10.8	8.0	-152.77	206.6	164.7	286.8	271.7	15.04	19.067		
3,800.0	3,759.0	3,777.6	3,759.0	11.1	8.1	-154.13	206.6	164.7	300.2	284.9	15.27	19.655		
3,900.0	3,858.1	3,876.7	3,858.1	11.4	8.3	-155.24	206.6	164.7	312.1	296.6	15.52	20.113		
4,000.0	3,957.4	3,976.1	3,957.4	11.7	8.4	-156.14	206.6	164.7	322.6	306.8	15.78	20.446		
4,100.0	4,057.0	4,075.6	4,057.0	11.9	8.5	-156.85	206.6	164.7	331.6	315.5	16.05	20.659		
4,200.0	4,156.6	4,175.3	4,156.6	12.1	8.7	-157.41	206.6	164.7	339.0	322.6	16.33	20.758		
4,300.0	4,256.4	4,275.1	4,256.4	12.3	8.8	-157.84	206.6	164.7	344.8	328.2	16.62	20.749		
4,400.0	4,356.3	4,375.0	4,356.3	12.4	9.0	-158.13	206.6	164.7	349.0	332.1	16.91	20.639		
4,500.0	4,456.3	4,474.9	4,456.3	12.6	9.1	-158.31	206.6	164.7	351.6	334.4	17.21	20.433		
4,600.0	4,556.3	4,574.9	4,556.3	12.7	9.3	-158.38	206.6	164.7	352.6	335.0	17.51	20.137		
4,700.0	4,656.3	4,674.9	4,656.3	12.8	9.4	-90.38	206.6	164.7	352.6	334.7	17.82	19.779		
4,800.0	4,756.3	4,774.9	4,756.3	12.9	9.6	-90.38	206.6	164.7	352.6	334.4	18.14	19.430		
4,900.0	4,856.3	4,874.9	4,856.3	13.0	9.7	-90.38	206.6	164.7	352.6	334.1	18.47	19.092		
5,000.0	4,956.3	4,974.9	4,956.3	13.1	9.9	-90.38	206.6	164.7	352.6	333.8	18.79	18.765		
5,100.0	5,056.3	5,074.9	5,056.3	13.3	10.0	-90.38	206.6	164.7	352.6	333.4	19.11	18.448		

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 1F-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 1F-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: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,156.3	5,174.9	5,156.3	13.4	10.2	-90.38	206.6	164.7	352.6	333.1	19.44		18.140	
5,300.0	5,256.3	5,274.9	5,256.3	13.5	10.3	-90.38	206.6	164.7	352.6	332.8	19.76		17.842	
5,400.0	5,356.3	5,374.9	5,356.3	13.6	10.5	-90.38	206.6	164.7	352.6	332.5	20.09		17.553	
5,500.0	5,456.3	5,474.9	5,456.3	13.7	10.7	-90.38	206.6	164.7	352.6	332.1	20.41		17.272	
5,600.0	5,556.3	5,574.9	5,556.3	13.9	10.8	-90.38	206.6	164.7	352.6	331.8	20.74		17.000	
5,700.0	5,656.3	5,674.9	5,656.3	14.0	11.0	-90.38	206.6	164.7	352.6	331.5	21.07		16.735	
5,800.0	5,756.3	5,774.9	5,756.3	14.1	11.1	-90.38	206.6	164.7	352.6	331.2	21.40		16.478	
5,900.0	5,856.3	5,874.9	5,856.3	14.2	11.3	-90.38	206.6	164.7	352.6	330.8	21.72		16.228	
6,000.0	5,956.3	5,974.9	5,956.3	14.4	11.4	-90.38	206.6	164.7	352.6	330.5	22.05		15.986	
6,100.0	6,056.3	6,074.9	6,056.3	14.5	11.6	-90.38	206.6	164.7	352.6	330.2	22.38		15.750	
6,200.0	6,156.3	6,174.9	6,156.3	14.6	11.8	-90.38	206.6	164.7	352.6	329.8	22.72		15.520	
6,300.0	6,256.3	6,274.9	6,256.3	14.7	11.9	-90.38	206.6	164.7	352.6	329.5	23.05		15.297	
6,400.0	6,356.3	6,374.9	6,356.3	14.9	12.1	-90.38	206.6	164.7	352.6	329.2	23.38		15.080	
6,500.0	6,456.3	6,474.9	6,456.3	15.0	12.2	-90.38	206.6	164.7	352.6	328.8	23.71		14.868	
6,558.6	6,514.8	6,533.4	6,514.8	15.1	12.3	90.00	206.6	164.7	352.6	328.6	23.90		14.750	
6,600.0	6,556.0	6,574.6	6,556.0	15.1	12.4	90.71	206.6	164.7	352.6	328.5	24.06		14.652	
6,700.0	6,653.8	6,672.4	6,653.8	15.1	12.6	93.90	206.6	164.7	353.4	329.0	24.47		14.443	
6,800.0	6,747.7	6,772.8	6,754.0	15.1	12.7	98.41	201.9	164.7	356.7	331.9	24.81		14.377	
6,900.0	6,836.0	6,878.7	6,857.9	15.2	12.8	102.84	182.0	164.7	362.4	337.5	24.93		14.534	
7,000.0	6,917.0	6,989.9	6,962.6	15.2	12.8	107.02	145.0	164.7	370.0	345.1	24.84		14.892	
7,100.0	6,989.0	7,106.9	7,065.2	15.4	12.8	110.83	89.0	164.7	378.8	354.2	24.63		15.377	
7,200.0	7,050.7	7,229.9	7,161.7	15.7	13.0	114.18	12.9	164.7	388.1	363.6	24.48		15.851	
7,300.0	7,100.9	7,359.0	7,247.4	16.1	13.3	116.97	-83.4	164.7	396.9	372.3	24.62		16.122	
7,400.0	7,138.5	7,493.6	7,316.9	16.7	14.0	119.11	-198.4	164.7	404.3	379.0	25.30		15.981	
7,500.0	7,162.9	7,632.6	7,364.8	17.4	15.0	120.55	-328.7	164.7	409.6	382.9	26.72		15.331	
7,600.0	7,173.5	7,774.3	7,386.8	18.3	16.3	121.22	-468.5	164.7	412.2	383.3	28.92		14.255	
7,700.0	7,174.0	7,886.6	7,388.0	19.3	17.6	121.26	-580.7	164.7	412.4	381.3	31.09		13.265	
7,800.0	7,174.0	7,986.6	7,388.0	20.4	18.8	121.26	-680.7	164.7	412.3	379.1	33.20		12.420	
7,900.0	7,174.0	8,086.6	7,388.0	21.6	20.1	121.26	-780.7	164.7	412.3	376.9	35.44		11.634	
8,000.0	7,174.0	8,186.6	7,388.0	22.9	21.5	121.27	-880.7	164.7	412.3	374.5	37.79		10.910	
8,100.0	7,174.0	8,286.6	7,388.0	24.3	22.9	121.27	-980.7	164.7	412.3	372.1	40.23		10.249	
8,200.0	7,174.0	8,386.6	7,388.0	25.7	24.4	121.27	-1,080.7	164.7	412.3	369.6	42.74		9.647	
8,300.0	7,174.0	8,486.6	7,388.0	27.1	25.9	121.27	-1,180.7	164.7	412.3	367.0	45.31		9.100	
8,400.0	7,174.0	8,586.6	7,388.0	28.5	27.4	121.27	-1,280.7	164.7	412.3	364.4	47.93		8.603	
8,500.0	7,174.0	8,686.6	7,388.0	30.0	29.0	121.27	-1,380.7	164.7	412.3	361.7	50.59		8.150	
8,600.0	7,174.0	8,786.6	7,388.0	31.6	30.6	121.27	-1,480.7	164.7	412.3	359.0	53.29		7.737	
8,700.0	7,174.0	8,886.6	7,388.0	33.1	32.2	121.27	-1,580.7	164.7	412.3	356.2	56.02		7.359	
8,800.0	7,174.0	8,986.6	7,388.0	34.7	33.8	121.27	-1,680.7	164.8	412.3	353.5	58.78		7.014	
8,900.0	7,174.0	9,086.6	7,388.0	36.3	35.4	121.27	-1,780.7	164.8	412.3	350.7	61.56		6.697	
9,000.0	7,174.0	9,186.6	7,388.0	37.9	37.0	121.27	-1,880.7	164.8	412.2	347.9	64.36		6.406	
9,100.0	7,174.0	9,286.6	7,388.0	39.5	38.7	121.27	-1,980.7	164.8	412.2	345.1	67.18		6.137	
9,200.0	7,174.0	9,386.6	7,388.0	41.1	40.3	121.27	-2,080.7	164.8	412.2	342.2	70.01		5.888	
9,300.0	7,174.0	9,486.6	7,388.0	42.7	42.0	121.27	-2,180.7	164.8	412.2	339.4	72.86		5.658	
9,400.0	7,174.0	9,586.6	7,388.0	44.4	43.7	121.28	-2,280.7	164.8	412.2	336.5	75.72		5.444	
9,500.0	7,174.0	9,686.6	7,388.0	46.0	45.3	121.28	-2,380.7	164.8	412.2	333.6	78.59		5.245	
9,600.0	7,174.0	9,786.6	7,388.0	47.7	47.0	121.28	-2,480.7	164.8	412.2	330.7	81.47		5.060	
9,700.0	7,174.0	9,886.6	7,388.0	49.3	48.7	121.28	-2,580.7	164.8	412.2	327.8	84.35		4.886	
9,800.0	7,174.0	9,986.6	7,388.0	51.0	50.4	121.28	-2,680.7	164.8	412.2	324.9	87.25		4.724	
9,900.0	7,174.0	10,086.6	7,388.0	52.7	52.1	121.28	-2,780.7	164.8	412.2	322.0	90.15		4.572	
10,000.0	7,174.0	10,186.6	7,388.0	54.4	53.8	121.28	-2,880.7	164.8	412.2	319.1	93.06		4.429	
10,100.0	7,174.0	10,286.6	7,388.0	56.1	55.5	121.28	-2,980.7	164.8	412.2	316.2	95.98		4.294	
10,200.0	7,174.0	10,386.6	7,388.0	57.8	57.2	121.28	-3,080.7	164.8	412.1	313.2	98.90		4.167	

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 1F-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 1F-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	7,174.0	10,486.6	7,388.0	59.4	58.9	121.28	-3,180.7	164.8	412.1	310.3	101.83	4.047		
10,400.0	7,174.0	10,586.6	7,388.0	61.1	60.6	121.28	-3,280.7	164.8	412.1	307.4	104.76	3.934		
10,500.0	7,174.0	10,686.6	7,388.0	62.8	62.4	121.28	-3,380.7	164.8	412.1	304.4	107.69	3.827		
10,600.0	7,174.0	10,786.6	7,388.0	64.5	64.1	121.28	-3,480.7	164.8	412.1	301.5	110.63	3.725		
10,700.0	7,174.0	10,886.6	7,388.0	66.3	65.8	121.28	-3,580.7	164.8	412.1	298.5	113.57	3.629		
10,800.0	7,174.0	10,986.6	7,388.0	68.0	67.5	121.29	-3,680.7	164.8	412.1	295.6	116.51	3.537		
10,900.0	7,174.0	11,086.6	7,388.0	69.7	69.2	121.29	-3,780.7	164.8	412.1	292.6	119.46	3.450		
11,000.0	7,174.0	11,186.6	7,388.0	71.4	71.0	121.29	-3,880.7	164.8	412.1	289.7	122.41	3.366		
11,100.0	7,174.0	11,286.6	7,388.0	73.1	72.7	121.29	-3,980.7	164.8	412.1	286.7	125.36	3.287		
11,200.0	7,174.0	11,386.6	7,388.0	74.8	74.4	121.29	-4,080.7	164.8	412.1	283.7	128.32	3.211		
11,300.0	7,174.0	11,486.6	7,388.0	76.5	76.1	121.29	-4,180.7	164.8	412.1	280.8	131.28	3.139		
11,400.0	7,174.0	11,586.6	7,388.0	78.3	77.9	121.29	-4,280.7	164.9	412.0	277.8	134.23	3.070		
11,500.0	7,174.0	11,686.6	7,388.0	80.0	79.6	121.29	-4,380.7	164.9	412.0	274.8	137.20	3.003		
11,600.0	7,174.0	11,786.6	7,388.0	81.7	81.3	121.29	-4,480.7	164.9	412.0	271.9	140.16	2.940		
11,700.0	7,174.0	11,886.6	7,388.0	83.4	83.1	121.29	-4,580.7	164.9	412.0	268.9	143.12	2.879		
11,701.9	7,174.0	11,888.5	7,388.0	83.5	83.1	121.29	-4,582.6	164.9	412.0	268.8	143.18	2.878 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1G-34H - Hz - Plan #1														Offset Site Error:	0.0 ft
Survey Program: 0-MWD														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning			
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	90.06	0.0	8.4	8.4						
100.0	100.0	100.0	100.0	0.2	0.2	90.06	0.0	8.4	8.4	8.1	0.30	27.599			
200.0	200.0	200.0	200.0	0.3	0.3	90.06	0.0	8.4	8.4	7.7	0.65	12.840			
300.0	300.0	300.0	300.0	0.5	0.5	90.06	0.0	8.4	8.4	7.4	1.00	8.366 CC, ES			
400.0	400.0	399.8	399.8	0.7	0.7	88.71	0.2	9.2	9.2	7.9	1.35	6.830			
500.0	500.0	499.7	499.6	0.9	0.9	19.22	0.9	11.8	11.0	9.3	1.70	6.449			
600.0	600.0	599.4	599.3	1.0	1.0	19.14	1.9	16.0	12.8	10.7	2.05	6.226			
700.0	699.9	699.2	698.9	1.2	1.2	19.96	3.4	21.8	14.6	12.2	2.40	6.089			
800.0	799.7	798.9	798.3	1.4	1.4	21.36	5.4	29.4	16.5	13.8	2.75	6.004			
900.0	899.4	898.6	897.5	1.6	1.7	23.14	7.8	38.6	18.5	15.4	3.11	5.954			
1,000.0	998.9	998.2	996.5	1.8	1.9	25.18	10.6	49.5	20.6	17.1	3.48	5.925			
1,100.0	1,098.3	1,097.9	1,095.3	2.1	2.2	27.37	13.8	62.1	22.8	18.9	3.86	5.906			
1,200.0	1,197.4	1,197.4	1,193.8	2.3	2.5	29.65	17.4	76.3	25.1	20.9	4.27	5.889			
1,300.0	1,296.3	1,297.0	1,292.0	2.6	2.8	31.96	21.5	92.2	27.6	22.9	4.70	5.868			
1,400.0	1,394.9	1,396.5	1,389.8	2.9	3.1	34.27	26.0	109.7	30.2	25.0	5.17	5.837			
1,500.0	1,493.4	1,495.9	1,487.3	3.3	3.5	35.68	30.9	128.8	33.6	28.0	5.66	5.945			
1,600.0	1,591.9	1,595.8	1,585.0	3.6	3.9	36.14	36.1	148.9	37.9	31.8	6.14	6.178			
1,700.0	1,690.4	1,695.7	1,682.7	3.9	4.3	36.50	41.2	169.1	42.2	35.6	6.63	6.372			
1,800.0	1,788.9	1,795.6	1,780.4	4.3	4.7	36.80	46.4	189.2	46.5	39.4	7.12	6.534			
1,900.0	1,887.3	1,895.5	1,878.1	4.6	5.1	37.05	51.6	209.3	50.8	43.2	7.62	6.671			
2,000.0	1,985.8	1,995.5	1,975.9	4.9	5.5	37.26	56.7	229.4	55.1	47.0	8.12	6.789			
2,100.0	2,084.3	2,095.4	2,073.6	5.3	5.9	37.43	61.9	249.5	59.4	50.8	8.62	6.891			
2,200.0	2,182.8	2,195.3	2,171.3	5.6	6.3	37.59	67.1	269.7	63.7	54.6	9.13	6.980			
2,300.0	2,281.3	2,295.2	2,269.0	6.0	6.7	37.72	72.2	289.8	68.0	58.4	9.64	7.057			
2,400.0	2,379.7	2,395.1	2,366.8	6.3	7.1	37.84	77.4	309.9	72.3	62.2	10.15	7.126			
2,500.0	2,478.2	2,495.0	2,464.5	6.7	7.5	37.95	82.6	330.0	76.6	66.0	10.66	7.187			
2,600.0	2,576.7	2,594.9	2,562.2	7.0	7.9	38.04	87.7	350.1	80.9	69.7	11.17	7.242			
2,700.0	2,675.2	2,694.8	2,659.9	7.4	8.3	38.13	92.9	370.3	85.2	73.5	11.69	7.291			
2,800.0	2,773.7	2,794.7	2,757.7	7.7	8.7	38.20	98.1	390.4	89.5	77.3	12.20	7.336			
2,900.0	2,872.1	2,894.6	2,855.4	8.1	9.1	38.27	103.2	410.5	93.8	81.1	12.72	7.376			
3,000.0	2,970.6	2,994.5	2,953.1	8.4	9.5	38.34	108.4	430.6	98.1	84.9	13.24	7.413			
3,100.0	3,069.1	3,094.4	3,050.8	8.8	9.9	38.39	113.6	450.7	102.4	88.7	13.75	7.447			
3,200.0	3,167.6	3,194.3	3,148.6	9.1	10.3	38.45	118.7	470.9	106.7	92.4	14.27	7.478			
3,300.0	3,266.1	3,294.2	3,246.3	9.5	10.7	38.50	123.9	491.0	111.0	96.2	14.79	7.506			
3,400.0	3,364.5	3,394.2	3,344.0	9.8	11.1	38.54	129.1	511.1	115.3	100.0	15.31	7.532			
3,500.0	3,463.0	3,494.1	3,441.7	10.2	11.5	38.58	134.2	531.2	119.6	103.8	15.83	7.557			
3,600.0	3,561.5	3,594.0	3,539.5	10.5	11.9	38.62	139.4	551.3	123.9	107.6	16.35	7.579			
3,700.0	3,660.1	3,693.9	3,637.2	10.8	12.3	38.49	144.6	571.5	128.8	112.0	16.83	7.652			
3,800.0	3,759.0	3,793.6	3,734.8	11.1	12.7	37.92	149.7	591.5	135.0	117.8	17.21	7.843			
3,900.0	3,858.1	3,893.3	3,832.3	11.4	13.1	36.99	154.9	611.6	142.6	125.1	17.51	8.146			
4,000.0	3,957.4	3,992.9	3,929.6	11.7	13.5	35.78	160.0	631.7	151.7	134.0	17.72	8.558			
4,100.0	4,057.0	4,092.2	4,026.8	11.9	13.9	34.36	165.2	651.7	162.3	144.4	17.88	9.076			
4,200.0	4,156.6	4,191.4	4,123.8	12.1	14.3	32.82	170.3	671.6	174.4	156.4	17.98	9.695			
4,300.0	4,256.4	4,290.3	4,220.6	12.3	14.7	31.21	175.4	691.6	188.1	170.0	18.06	10.414			
4,400.0	4,356.3	4,388.9	4,317.0	12.4	15.1	29.60	180.5	711.4	203.4	185.3	18.12	11.229			
4,500.0	4,456.3	4,488.3	4,414.3	12.6	15.5	28.00	185.6	731.4	220.4	202.2	18.17	12.131			
4,600.0	4,556.3	4,590.4	4,514.5	12.7	15.9	26.50	190.6	750.6	237.8	219.6	18.23	13.045			
4,700.0	4,656.3	4,693.1	4,615.5	12.8	16.3	25.17	195.1	768.2	254.6	236.3	18.34	13.883			
4,800.0	4,756.3	4,796.3	4,717.4	12.9	16.6	23.11	199.2	784.1	269.8	251.3	18.50	14.583			
4,900.0	4,856.3	4,900.1	4,820.2	13.0	16.9	21.26	202.8	798.3	283.4	264.7	18.71	15.150			
5,000.0	4,956.3	5,004.5	4,923.7	13.1	17.2	20.58	206.0	810.7	295.3	276.4	18.94	15.590			
5,100.0	5,056.3	5,109.2	5,027.9	13.3	17.4	20.04	208.7	821.4	305.5	286.3	19.20	15.910			

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 1F-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 1F-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: O-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
5,200.0	5,156.3	5,214.4	5,132.6	13.4	17.6	89.63	211.0	830.2	313.9	294.4	19.48	16.114		
5,300.0	5,256.3	5,319.8	5,237.8	13.5	17.8	89.31	212.8	837.2	320.6	300.8	19.77	16.211		
5,400.0	5,356.3	5,425.5	5,343.3	13.6	18.0	89.09	214.1	842.4	325.4	305.3	20.08	16.204		
5,500.0	5,456.3	5,531.3	5,449.1	13.7	18.1	88.96	215.0	845.6	328.5	308.1	20.40	16.101		
5,600.0	5,556.3	5,637.2	5,555.0	13.9	18.2	88.90	215.3	847.0	329.8	309.1	20.73	15.906		
5,700.0	5,656.3	5,738.5	5,656.3	14.0	18.3	88.90	215.3	847.0	329.8	308.8	21.07	15.657		
5,800.0	5,756.3	5,838.5	5,756.3	14.1	18.4	88.90	215.3	847.0	329.8	308.4	21.40	15.416		
5,900.0	5,856.3	5,938.5	5,856.3	14.2	18.5	88.90	215.3	847.0	329.8	308.1	21.73	15.181		
6,000.0	5,956.3	6,038.5	5,956.3	14.4	18.6	88.90	215.3	847.0	329.8	307.8	22.06	14.953		
6,100.0	6,056.3	6,138.5	6,056.3	14.5	18.7	88.90	215.3	847.0	329.8	307.4	22.39	14.731		
6,200.0	6,156.3	6,238.5	6,156.3	14.6	18.8	88.90	215.3	847.0	329.8	307.1	22.72	14.515		
6,300.0	6,256.3	6,338.5	6,256.3	14.7	18.9	88.90	215.3	847.0	329.8	306.8	23.06	14.306		
6,400.0	6,356.3	6,438.5	6,356.3	14.9	19.0	88.90	215.3	847.0	329.8	306.4	23.39	14.102		
6,500.0	6,456.3	6,538.5	6,456.3	15.0	19.1	88.90	215.3	847.0	329.8	306.1	23.72	13.903		
6,600.0	6,556.0	6,638.2	6,556.0	15.1	19.2	-92.26	215.3	847.0	330.0	306.2	23.87	13.829		
6,700.0	6,653.8	6,735.9	6,653.8	15.1	19.3	-95.61	215.3	847.0	331.5	307.7	23.76	13.955		
6,800.0	6,747.7	6,835.5	6,753.2	15.1	19.4	-100.52	212.2	847.1	336.1	312.5	23.63	14.227		
6,900.0	6,836.0	6,941.5	6,857.6	15.2	19.5	-105.41	194.6	847.4	343.9	320.2	23.69	14.516		
7,000.0	6,917.0	7,053.3	6,963.7	15.2	19.5	-109.93	159.6	848.0	354.0	330.1	23.93	14.793		
7,100.0	6,989.0	7,171.6	7,068.5	15.4	19.5	-113.97	105.1	848.9	365.8	341.5	24.30	15.052		
7,200.0	7,050.7	7,296.6	7,168.0	15.7	19.6	-117.43	29.6	850.2	378.0	353.3	24.73	15.284		
7,300.0	7,100.9	7,428.4	7,256.9	16.1	19.8	-120.22	-67.4	851.9	389.8	364.5	25.24	15.444		
7,400.0	7,138.5	7,566.5	7,329.4	16.7	20.3	-122.26	-184.6	854.0	399.8	374.0	25.87	15.457		
7,500.0	7,162.9	7,709.6	7,379.4	17.4	21.0	-123.47	-318.4	856.3	407.3	380.6	26.69	15.258		
7,600.0	7,173.5	7,855.7	7,402.0	18.3	22.0	-123.83	-462.5	858.8	411.4	383.6	27.80	14.797		
7,700.0	7,174.0	7,967.9	7,403.0	19.3	23.0	-123.68	-574.7	860.8	413.0	383.3	29.64	13.935		
7,800.0	7,174.0	8,067.9	7,403.0	20.4	23.9	-123.55	-674.7	862.5	414.4	382.7	31.77	13.043		
7,900.0	7,174.0	8,167.9	7,403.0	21.6	25.0	-123.41	-774.6	864.3	415.9	381.9	34.04	12.217		
8,000.0	7,174.0	8,267.9	7,403.0	22.9	26.1	-123.28	-874.6	866.0	417.4	380.9	36.42	11.461		
8,100.0	7,174.0	8,367.9	7,403.0	24.3	27.3	-123.15	-974.6	867.8	418.8	379.9	38.88	10.772		
8,200.0	7,174.0	8,467.9	7,403.0	25.7	28.5	-123.02	-1,074.6	869.5	420.3	378.9	41.42	10.148		
8,300.0	7,174.0	8,567.9	7,403.0	27.1	29.8	-122.89	-1,174.5	871.3	421.8	377.7	44.02	9.581		
8,400.0	7,174.0	8,667.8	7,403.0	28.5	31.2	-122.76	-1,274.5	873.0	423.2	376.6	46.67	9.068		
8,500.0	7,174.0	8,767.8	7,403.0	30.0	32.6	-122.63	-1,374.5	874.8	424.7	375.3	49.38	8.601		
8,600.0	7,174.0	8,867.8	7,403.0	31.6	34.0	-122.51	-1,474.4	876.5	426.2	374.1	52.12	8.177		
8,700.0	7,174.0	8,967.8	7,403.0	33.1	35.4	-122.38	-1,574.4	878.2	427.7	372.8	54.90	7.790		
8,800.0	7,174.0	9,067.8	7,403.0	34.7	36.9	-122.26	-1,674.4	880.0	429.1	371.4	57.71	7.436		
8,900.0	7,174.0	9,167.8	7,403.0	36.3	38.4	-122.13	-1,774.3	881.7	430.6	370.1	60.55	7.111		
9,000.0	7,174.0	9,267.7	7,403.0	37.9	39.9	-122.01	-1,874.3	883.5	432.1	368.7	63.42	6.814		
9,100.0	7,174.0	9,367.7	7,403.0	39.5	41.5	-121.89	-1,974.3	885.2	433.6	367.3	66.31	6.539		
9,200.0	7,174.0	9,467.7	7,403.0	41.1	43.0	-121.76	-2,074.2	887.0	435.1	365.9	69.22	6.286		
9,300.0	7,174.0	9,567.7	7,403.0	42.7	44.6	-121.64	-2,174.2	888.7	436.6	364.4	72.15	6.051		
9,400.0	7,174.0	9,667.7	7,403.0	44.4	46.2	-121.52	-2,274.2	890.5	438.1	363.0	75.09	5.834		
9,500.0	7,174.0	9,767.7	7,403.0	46.0	47.8	-121.40	-2,374.2	892.2	439.6	361.5	78.05	5.631		
9,600.0	7,174.0	9,867.7	7,403.0	47.7	49.4	-121.28	-2,474.1	894.0	441.1	360.0	81.03	5.443		
9,700.0	7,174.0	9,972.8	7,403.0	49.3	51.1	-121.20	-2,579.3	895.2	442.1	358.0	84.08	5.258		
9,800.0	7,174.0	10,079.9	7,403.0	51.0	52.8	-121.24	-2,686.4	896.6	441.6	354.6	87.06	5.073		
9,900.0	7,174.0	10,183.8	7,403.0	52.7	54.5	-121.39	-2,790.3	892.3	439.7	349.8	89.89	4.892		
10,000.0	7,174.0	10,283.8	7,403.0	54.4	56.1	-121.57	-2,890.2	889.8	437.5	344.9	92.65	4.723		
10,100.0	7,174.0	10,383.8	7,403.0	56.1	57.7	-121.74	-2,990.1	887.2	435.4	340.0	95.40	4.564		
10,200.0	7,174.0	10,483.7	7,403.0	57.8	59.4	-121.92	-3,090.1	884.7	433.2	335.1	98.14	4.414		
10,300.0	7,174.0	10,583.7	7,403.0	59.4	61.0	-122.10	-3,190.0	882.1	431.1	330.2	100.88	4.273		

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 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - Devore 1G-34H - Hz - Plan #1													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							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	7,174.0	10,683.7	7,403.0	61.1	62.6	-122.28	-3,290.0	879.6	428.9	325.3	103.60	4.140		
10,500.0	7,174.0	10,783.7	7,403.0	62.8	64.3	-122.46	-3,389.9	877.0	426.8	320.4	106.31	4.014		
10,600.0	7,174.0	10,883.6	7,403.0	64.5	66.0	-122.65	-3,489.8	874.5	424.6	315.6	109.01	3.895		
10,700.0	7,174.0	10,983.6	7,403.0	66.3	67.6	-122.83	-3,589.8	871.9	422.5	310.8	111.70	3.782		
10,800.0	7,174.0	11,083.6	7,403.0	68.0	69.3	-123.02	-3,689.7	869.4	420.3	306.0	114.38	3.675		
10,900.0	7,174.0	11,183.5	7,403.0	69.7	71.0	-123.21	-3,789.6	866.8	418.2	301.2	117.04	3.573		
11,000.0	7,174.0	11,283.5	7,403.0	71.4	72.6	-123.40	-3,889.6	864.3	416.1	296.4	119.69	3.476		
11,100.0	7,174.0	11,383.5	7,403.0	73.1	74.3	-123.60	-3,989.5	861.7	414.0	291.6	122.33	3.384		
11,200.0	7,174.0	11,483.4	7,403.0	74.8	76.0	-123.79	-4,089.4	859.2	411.8	286.9	124.95	3.296		
11,300.0	7,174.0	11,583.4	7,403.0	76.5	77.7	-123.99	-4,189.4	856.6	409.7	282.2	127.55	3.212		
11,400.0	7,174.0	11,683.4	7,403.0	78.3	79.4	-124.19	-4,289.3	854.1	407.6	277.5	130.15	3.132		
11,500.0	7,174.0	11,783.3	7,403.0	80.0	81.1	-124.39	-4,389.2	851.5	405.5	272.8	132.72	3.055		
11,600.0	7,174.0	11,883.3	7,403.0	81.7	82.8	-124.60	-4,489.2	849.0	403.4	268.1	135.28	2.982		
11,698.2	7,174.0	11,973.1	7,403.0	83.4	84.3	-124.78	-4,579.0	846.7	401.5	263.8	137.68	2.916		
11,700.0	7,174.0	11,973.1	7,403.0	83.4	84.3	-124.78	-4,579.0	846.7	401.5	263.7	137.71	2.915		
11,701.9	7,174.0	11,973.1	7,403.0	83.5	84.3	-124.78	-4,579.0	846.7	401.5	263.7	137.73	2.915 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	19.6	19.6					
100.0	100.0	100.0	100.0	0.2	0.2	90.05	0.0	19.6	19.6	19.3	0.30	64.397		
200.0	200.0	200.0	200.0	0.3	0.3	90.05	0.0	19.6	19.6	18.9	0.65	29.960 CC, ES		
300.0	300.0	299.7	299.7	0.5	0.5	89.60	0.1	20.4	20.4	19.4	1.00	20.374		
400.0	400.0	399.3	399.2	0.7	0.7	88.47	0.6	23.0	23.0	21.6	1.35	16.974		
500.0	500.0	498.8	498.6	0.9	0.9	19.65	1.4	27.2	26.5	24.8	1.70	15.582		
600.0	600.0	598.2	597.9	1.0	1.1	19.67	2.5	33.2	30.0	28.0	2.05	14.663		
700.0	699.9	697.6	697.0	1.2	1.3	20.27	3.9	40.8	33.6	31.3	2.40	14.037		
800.0	799.7	796.9	795.8	1.4	1.5	21.26	5.6	50.1	37.4	34.6	2.75	13.589		
900.0	899.4	896.2	894.5	1.6	1.8	22.53	7.7	61.1	41.2	38.1	3.11	13.255		
1,000.0	998.9	995.4	992.8	1.8	2.0	24.00	10.0	73.8	45.1	41.6	3.47	12.995		
1,100.0	1,098.3	1,094.5	1,090.9	2.1	2.3	25.62	12.7	88.1	49.1	45.3	3.85	12.779		
1,200.0	1,197.4	1,193.5	1,188.6	2.3	2.6	27.33	15.6	104.0	53.3	49.1	4.24	12.588		
1,300.0	1,296.3	1,292.5	1,285.9	2.6	3.0	29.11	18.9	121.7	57.7	53.1	4.65	12.404		
1,400.0	1,394.9	1,391.4	1,382.8	2.9	3.4	30.92	22.5	140.9	62.2	57.1	5.10	12.216		
1,500.0	1,493.4	1,490.2	1,479.3	3.3	3.8	32.37	26.3	161.8	67.7	62.1	5.56	12.175		
1,600.0	1,591.9	1,588.8	1,575.2	3.6	4.2	33.11	30.5	184.2	74.8	68.8	6.03	12.406		
1,700.0	1,690.4	1,687.2	1,670.5	3.9	4.7	33.28	35.0	208.3	83.5	77.0	6.49	12.860		
1,800.0	1,788.9	1,786.5	1,766.5	4.3	5.1	33.17	39.6	233.5	93.2	86.2	6.95	13.403		
1,900.0	1,887.3	1,886.0	1,862.6	4.6	5.6	33.07	44.3	258.9	102.9	95.4	7.41	13.876		
2,000.0	1,985.8	1,985.6	1,958.8	4.9	6.1	32.99	49.0	284.2	112.5	104.7	7.88	14.289		
2,100.0	2,084.3	2,085.1	2,054.9	5.3	6.6	32.93	53.7	309.5	122.2	113.9	8.34	14.654		
2,200.0	2,182.8	2,184.6	2,151.0	5.6	7.0	32.87	58.4	334.8	131.9	123.1	8.81	14.977		
2,300.0	2,281.3	2,284.2	2,247.2	6.0	7.5	32.82	63.1	360.2	141.6	132.3	9.28	15.265		
2,400.0	2,379.7	2,383.7	2,343.3	6.3	8.0	32.78	67.8	385.5	151.3	141.6	9.75	15.525		
2,500.0	2,478.2	2,483.2	2,439.4	6.7	8.5	32.75	72.5	410.8	161.0	150.8	10.22	15.758		
2,600.0	2,576.7	2,582.7	2,535.6	7.0	9.0	32.71	77.2	436.2	170.7	160.0	10.69	15.971		
2,700.0	2,675.2	2,682.3	2,631.7	7.4	9.5	32.68	81.9	461.5	180.4	169.2	11.16	16.164		
2,800.0	2,773.7	2,781.8	2,727.9	7.7	10.0	32.66	86.6	486.8	190.1	178.4	11.63	16.340		
2,900.0	2,872.1	2,881.3	2,824.0	8.1	10.5	32.63	91.3	512.1	199.8	187.7	12.11	16.502		
3,000.0	2,970.6	2,980.9	2,920.1	8.4	11.0	32.61	96.0	537.5	209.5	196.9	12.58	16.652		
3,100.0	3,069.1	3,080.4	3,016.3	8.8	11.4	32.59	100.7	562.8	219.1	206.1	13.05	16.789		
3,200.0	3,167.6	3,179.9	3,112.4	9.1	11.9	32.57	105.4	588.1	228.8	215.3	13.53	16.917		
3,300.0	3,266.1	3,279.4	3,208.6	9.5	12.4	32.56	110.1	613.5	238.5	224.5	14.00	17.036		
3,400.0	3,364.5	3,379.0	3,304.7	9.8	12.9	32.54	114.8	638.8	248.2	233.7	14.48	17.146		
3,500.0	3,463.0	3,478.5	3,400.8	10.2	13.4	32.53	119.4	664.1	257.9	243.0	14.95	17.249		
3,600.0	3,561.5	3,578.0	3,497.0	10.5	13.9	32.52	124.1	689.4	267.6	252.2	15.43	17.346		
3,700.0	3,660.1	3,677.5	3,593.0	10.8	14.4	32.48	128.8	714.8	277.9	262.0	15.89	17.493		
3,800.0	3,759.0	3,776.8	3,689.0	11.1	14.9	32.27	133.5	740.0	289.6	273.3	16.30	17.773		
3,900.0	3,858.1	3,875.9	3,784.7	11.4	15.4	31.92	138.2	765.3	302.9	286.2	16.66	18.177		
4,000.0	3,957.4	3,974.8	3,880.2	11.7	15.9	31.44	142.9	790.4	317.6	300.6	16.98	18.698		
4,100.0	4,057.0	4,073.4	3,975.4	11.9	16.4	30.86	147.5	815.5	333.8	316.5	17.27	19.330		
4,200.0	4,156.6	4,171.7	4,070.4	12.1	16.8	30.21	152.1	840.5	351.5	334.0	17.52	20.066		
4,300.0	4,256.4	4,269.7	4,165.0	12.3	17.3	29.50	156.8	865.5	370.8	353.1	17.74	20.902		
4,400.0	4,356.3	4,367.3	4,259.4	12.4	17.8	28.75	161.4	890.3	391.7	373.7	17.94	21.832		
4,500.0	4,456.3	4,464.6	4,353.3	12.6	18.3	27.97	166.0	915.1	414.1	396.0	18.12	22.853		
4,600.0	4,556.3	4,561.4	4,446.9	12.7	18.8	27.19	170.5	939.7	438.1	419.8	18.28	23.961		
4,700.0	4,656.3	4,658.0	4,540.2	12.8	19.3	26.43	175.1	964.3	463.1	444.7	18.45	25.099		
4,800.0	4,756.3	4,754.6	4,633.5	12.9	19.7	25.66	179.6	988.9	488.3	469.6	18.64	26.193		
4,900.0	4,856.3	4,851.2	4,726.8	13.0	20.2	24.86	184.2	1,013.5	513.4	494.6	18.85	27.245		
5,000.0	4,956.3	4,953.4	4,825.6	13.1	20.7	24.00	189.0	1,039.2	538.4	519.3	19.07	28.235		
5,100.0	5,056.3	5,060.6	4,929.6	13.3	21.2	23.16	193.6	1,064.4	561.8	542.5	19.32	29.087		

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 1F-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 1F-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		Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Separation Factor		
5,200.0	5,156.3	5,168.7	5,035.1	13.4	21.6	91.10	198.0	1,087.9	583.5	563.9	19.58	29.802		
5,300.0	5,256.3	5,277.7	5,141.8	13.5	22.1	90.67	202.0	1,109.6	603.4	583.5	19.86	30.384		
5,400.0	5,356.3	5,387.5	5,249.8	13.6	22.5	90.31	205.7	1,129.4	621.4	601.3	20.15	30.841		
5,500.0	5,456.3	5,498.1	5,358.8	13.7	22.8	90.00	209.0	1,147.4	637.6	617.2	20.45	31.178		
5,600.0	5,556.3	5,609.4	5,468.9	13.9	23.1	89.73	212.0	1,163.3	652.0	631.2	20.76	31.400		
5,700.0	5,656.3	5,721.2	5,579.8	14.0	23.4	89.52	214.5	1,177.2	664.4	643.4	21.08	31.514		
5,800.0	5,756.3	5,833.6	5,691.6	14.1	23.7	89.34	216.7	1,189.1	675.0	653.6	21.41	31.525		
5,900.0	5,856.3	5,946.4	5,803.9	14.2	23.9	89.20	218.5	1,198.8	683.6	661.9	21.74	31.438		
6,000.0	5,956.3	6,059.5	5,916.8	14.4	24.1	89.09	219.9	1,206.3	690.3	668.2	22.08	31.257		
6,100.0	6,056.3	6,172.9	6,030.1	14.5	24.2	89.01	220.9	1,211.7	695.0	672.6	22.43	30.988		
6,200.0	6,156.3	6,286.5	6,143.6	14.6	24.4	88.97	221.5	1,214.8	697.8	675.1	22.78	30.635		
6,300.0	6,256.3	6,399.2	6,256.3	14.7	24.5	88.96	221.7	1,215.8	698.7	675.5	23.13	30.204		
6,400.0	6,356.3	6,499.2	6,356.3	14.9	24.5	88.96	221.7	1,215.8	698.7	675.2	23.47	29.775		
6,500.0	6,456.3	6,599.2	6,456.3	15.0	24.6	88.96	221.7	1,215.8	698.7	674.9	23.80	29.356		
6,600.0	6,556.0	6,701.0	6,557.7	15.1	24.7	-91.04	214.7	1,215.8	698.7	674.6	24.04	29.069		
6,700.0	6,653.8	6,802.8	6,657.2	15.1	24.7	-91.01	193.4	1,215.8	698.7	674.5	24.16	28.918		
6,800.0	6,747.7	6,904.5	6,752.5	15.1	24.7	-90.96	158.2	1,215.8	698.7	674.4	24.23	28.833		
6,900.0	6,836.0	7,006.0	6,841.8	15.2	24.7	-90.89	110.0	1,215.8	698.6	674.3	24.32	28.727		
7,000.0	6,917.0	7,107.5	6,923.3	15.2	24.7	-90.80	49.8	1,215.8	698.6	674.1	24.52	28.494		
7,100.0	6,989.0	7,208.8	6,995.4	15.4	24.8	-90.70	-21.3	1,215.8	698.6	673.7	24.92	28.033		
7,200.0	7,050.7	7,309.9	7,056.6	15.7	25.0	-90.58	-101.6	1,215.8	698.6	673.0	25.62	27.273		
7,300.0	7,100.9	7,410.7	7,105.8	16.1	25.2	-90.45	-189.6	1,215.8	698.6	671.9	26.66	26.203		
7,400.0	7,138.5	7,511.4	7,142.2	16.7	25.6	-90.32	-283.4	1,215.8	698.6	670.5	28.08	24.878		
7,500.0	7,162.9	7,611.8	7,165.0	17.4	26.1	-90.17	-381.1	1,215.8	698.6	668.7	29.86	23.395		
7,600.0	7,173.5	7,712.0	7,173.9	18.3	26.7	-90.03	-480.7	1,215.8	698.6	666.6	31.95	21.867		
7,615.5	7,174.0	7,727.5	7,174.0	18.5	26.8	-90.00	-496.3	1,215.8	698.6	666.3	32.30	21.627		
7,700.0	7,174.0	7,812.0	7,174.0	19.3	27.3	-90.00	-580.7	1,215.8	698.6	664.3	34.28	20.380		
7,800.0	7,174.0	7,912.0	7,174.0	20.4	28.1	-90.00	-680.7	1,215.7	698.6	661.8	36.79	18.987		
7,900.0	7,174.0	8,012.0	7,174.0	21.6	29.0	-90.00	-780.7	1,215.7	698.6	659.1	39.46	17.704		
8,000.0	7,174.0	8,112.0	7,174.0	22.9	29.9	-90.00	-880.7	1,215.7	698.6	656.3	42.25	16.536		
8,100.0	7,174.0	8,212.0	7,174.0	24.3	31.0	-90.00	-980.7	1,215.7	698.6	653.4	45.14	15.477		
8,200.0	7,174.0	8,312.0	7,174.0	25.7	32.0	-90.00	-1,080.7	1,215.7	698.6	650.5	48.11	14.521		
8,300.0	7,174.0	8,412.0	7,174.0	27.1	33.2	-90.00	-1,180.7	1,215.7	698.6	647.4	51.15	13.658		
8,400.0	7,174.0	8,512.0	7,174.0	28.5	34.4	-90.00	-1,280.7	1,215.7	698.6	644.3	54.24	12.878		
8,500.0	7,174.0	8,612.0	7,174.0	30.0	35.6	-90.00	-1,380.7	1,215.7	698.6	641.2	57.39	12.173		
8,600.0	7,174.0	8,712.0	7,174.0	31.6	36.9	-90.00	-1,480.7	1,215.7	698.6	638.0	60.57	11.533		
8,700.0	7,174.0	8,812.0	7,174.0	33.1	38.2	-90.00	-1,580.7	1,215.7	698.6	634.8	63.79	10.951		
8,800.0	7,174.0	8,912.0	7,174.0	34.7	39.6	-90.00	-1,680.7	1,215.7	698.6	631.5	67.04	10.421		
8,900.0	7,174.0	9,012.0	7,174.0	36.3	41.0	-90.00	-1,780.7	1,215.7	698.6	628.3	70.31	9.936		
9,000.0	7,174.0	9,112.0	7,174.0	37.9	42.4	-90.00	-1,880.7	1,215.7	698.6	625.0	73.60	9.491		
9,100.0	7,174.0	9,212.0	7,174.0	39.5	43.8	-90.00	-1,980.7	1,215.7	698.6	621.7	76.92	9.082		
9,200.0	7,174.0	9,312.0	7,174.0	41.1	45.3	-90.00	-2,080.7	1,215.7	698.6	618.3	80.25	8.705		
9,300.0	7,174.0	9,412.0	7,174.0	42.7	46.8	-90.00	-2,180.7	1,215.7	698.6	615.0	83.59	8.357		
9,400.0	7,174.0	9,512.0	7,174.0	44.4	48.3	-90.00	-2,280.7	1,215.7	698.6	611.6	86.95	8.034		
9,500.0	7,174.0	9,612.0	7,174.0	46.0	49.8	-90.00	-2,380.7	1,215.7	698.6	608.3	90.32	7.735		
9,600.0	7,174.0	9,712.0	7,174.0	47.7	51.4	-90.00	-2,480.7	1,215.6	698.6	604.9	93.69	7.456		
9,700.0	7,174.0	9,812.0	7,174.0	49.3	52.9	-90.00	-2,580.7	1,215.6	698.6	601.5	97.08	7.196		
9,800.0	7,174.0	9,912.0	7,174.0	51.0	54.5	-90.00	-2,680.7	1,215.6	698.6	598.1	100.48	6.952		
9,900.0	7,174.0	10,012.0	7,174.0	52.7	56.0	-90.00	-2,780.7	1,215.6	698.6	594.7	103.88	6.725		
10,000.0	7,174.0	10,112.0	7,174.0	54.4	57.6	-90.00	-2,880.7	1,215.6	698.6	591.3	107.29	6.511		
10,100.0	7,174.0	10,212.0	7,174.0	56.1	59.2	-90.00	-2,980.7	1,215.6	698.6	587.9	110.71	6.310		
10,200.0	7,174.0	10,312.0	7,174.0	57.8	60.8	-90.00	-3,080.7	1,215.6	698.6	584.4	114.13	6.121		

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 1F-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 1F-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)			
10,300.0	7,174.0	10,412.0	7,174.0	59.4	62.4	-90.00	-3,180.7	1,215.6	698.6	581.0	117.56	5.942	
10,400.0	7,174.0	10,512.0	7,174.0	61.1	64.0	-90.00	-3,280.7	1,215.6	698.6	577.6	120.99	5.774	
10,500.0	7,174.0	10,612.0	7,174.0	62.8	65.7	-90.00	-3,380.7	1,215.6	698.6	574.2	124.43	5.614	
10,600.0	7,174.0	10,712.0	7,174.0	64.5	67.3	-90.00	-3,480.7	1,215.6	698.6	570.7	127.87	5.463	
10,700.0	7,174.0	10,812.0	7,174.0	66.3	68.9	-90.00	-3,580.7	1,215.6	698.6	567.3	131.31	5.320	
10,800.0	7,174.0	10,912.0	7,174.0	68.0	70.6	-90.00	-3,680.7	1,215.6	698.6	563.8	134.76	5.184	
10,900.0	7,174.0	11,012.0	7,174.0	69.7	72.2	-90.00	-3,780.7	1,215.6	698.6	560.4	138.21	5.055	
11,000.0	7,174.0	11,112.0	7,174.0	71.4	73.9	-90.00	-3,880.7	1,215.6	698.6	556.9	141.66	4.931	
11,100.0	7,174.0	11,212.0	7,174.0	73.1	75.5	-90.00	-3,980.7	1,215.6	698.6	553.5	145.11	4.814	
11,200.0	7,174.0	11,312.0	7,174.0	74.8	77.2	-90.00	-4,080.7	1,215.6	698.6	550.0	148.57	4.702	
11,300.0	7,174.0	11,412.0	7,174.0	76.5	78.9	-90.00	-4,180.7	1,215.6	698.6	546.5	152.03	4.595	
11,400.0	7,174.0	11,512.0	7,174.0	78.3	80.5	-90.00	-4,280.7	1,215.5	698.6	543.1	155.49	4.493	
11,500.0	7,174.0	11,612.0	7,174.0	80.0	82.2	-90.00	-4,380.7	1,215.5	698.6	539.6	158.96	4.395	
11,600.0	7,174.0	11,712.0	7,174.0	81.7	83.9	-90.00	-4,480.7	1,215.5	698.6	536.2	162.43	4.301	
11,659.2	7,174.0	11,771.1	7,174.0	82.7	84.9	-90.00	-4,539.9	1,215.5	698.6	534.1	164.48	4.247	
11,700.0	7,174.0	11,806.5	7,174.0	83.4	85.5	-90.00	-4,575.3	1,215.5	698.6	532.8	165.80	4.214	
11,701.9	7,174.0	11,806.5	7,174.0	83.5	85.5	-90.00	-4,575.3	1,215.5	698.6	532.8	165.83	4.213 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 31-34 (EXISTING) - EXISTING - GYRO														Offset Site Error:	0.0 ft
Survey Program: 100-Gyro														Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Total Uncertainty Axis	Separation Factor	Warning				
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)							
0.0	0.0	0.0	0.0	0.0	0.0	-104.63	-224.3	-859.4	888.2						
100.0	100.0	95.4	95.4	0.2	0.1	-104.62	-224.3	-859.7	888.5	0.24	3,775.856				
200.0	200.0	184.2	184.2	0.3	0.2	-104.59	-224.1	-860.9	889.7	0.49	1,819.909				
300.0	300.0	282.2	282.2	0.5	0.2	-104.53	-223.7	-863.1	891.8	0.75	1,187.699				
400.0	400.0	389.1	389.0	0.7	0.3	-104.45	-222.9	-865.3	893.6	1.02	875.708				
500.0	500.0	493.0	493.0	0.9	0.4	-172.32	-221.2	-866.9	895.6	1.28	697.808				
600.0	600.0	593.0	592.9	1.0	0.5	-172.22	-219.6	-868.2	899.1	1.55	581.501				
700.0	699.9	694.2	694.0	1.2	0.6	-172.16	-218.4	-869.4	904.2	1.81	499.612				
800.0	799.7	806.0	805.9	1.4	0.7	-172.12	-217.2	-869.8	910.3	2.08	437.158				
900.0	899.4	900.0	899.9	1.6	0.8	-172.10	-216.0	-869.9	917.9	2.34	392.232				
1,000.0	998.9	1,000.0	999.9	1.8	0.9	-172.11	-215.1	-870.1	927.4	2.60	356.369				
1,100.0	1,098.3	1,093.3	1,093.2	2.1	1.0	-172.15	-214.5	-870.3	938.7	2.86	328.249				
1,200.0	1,197.4	1,189.5	1,189.4	2.3	1.0	-172.18	-213.8	-871.3	952.4	3.12	305.291				
1,300.0	1,296.3	1,293.8	1,293.7	2.6	1.1	-172.23	-213.0	-872.3	967.8	3.39	285.683				
1,400.0	1,394.9	1,386.8	1,386.6	2.9	1.2	-172.27	-212.2	-873.1	984.8	3.65	270.081				
1,500.0	1,493.4	1,488.7	1,488.5	3.3	1.3	-172.36	-211.6	-874.1	1,002.8	3.91	256.210				
1,600.0	1,591.9	1,587.9	1,587.7	3.6	1.4	-172.45	-211.2	-874.8	1,020.5	4.18	244.155				
1,700.0	1,690.4	1,686.4	1,686.2	3.9	1.5	-172.53	-210.4	-875.5	1,038.3	4.45	233.574				
1,800.0	1,788.9	1,784.1	1,783.9	4.3	1.6	-172.60	-209.7	-876.2	1,056.0	4.71	224.212				
1,900.0	1,887.3	1,883.2	1,883.0	4.6	1.7	-172.66	-208.7	-877.0	1,073.8	4.98	215.790				
2,000.0	1,985.8	1,978.3	1,978.1	4.9	1.7	-172.71	-207.8	-877.9	1,091.6	5.24	208.383				
2,100.0	2,084.3	2,069.5	2,069.3	5.3	1.8	-172.77	-207.1	-879.1	1,109.9	5.50	201.891				
2,200.0	2,182.8	2,161.3	2,161.0	5.6	1.9	-172.81	-206.5	-880.9	1,128.9	5.76	196.077				
2,300.0	2,281.3	2,259.0	2,258.7	6.0	2.0	-172.87	-206.1	-883.2	1,148.2	6.02	190.692				
2,400.0	2,379.7	2,361.9	2,361.6	6.3	2.1	-173.00	-206.9	-884.9	1,167.3	6.29	185.633				
2,500.0	2,478.2	2,462.4	2,462.1	6.7	2.2	-173.13	-207.8	-886.3	1,186.0	6.55	180.984				
2,600.0	2,576.7	2,574.3	2,574.0	7.0	2.3	-173.26	-208.4	-887.3	1,204.3	6.83	176.390				
2,700.0	2,675.2	2,677.7	2,677.4	7.4	2.4	-173.38	-208.8	-887.2	1,221.5	7.09	172.177				
2,800.0	2,773.7	2,771.5	2,771.2	7.7	2.4	-173.49	-209.3	-887.1	1,238.8	7.35	168.476				
2,900.0	2,872.1	2,868.2	2,867.9	8.1	2.5	-173.63	-210.4	-887.2	1,256.4	7.61	165.037 SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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						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		
8,100.0	7,174.0	7,169.3	7,166.2	24.3	6.3	89.20	-1,775.3	-469.6	1,267.0	1,238.2	28.81	43.973		
8,200.0	7,174.0	7,169.2	7,166.1	25.7	6.3	89.19	-1,775.3	-469.6	1,206.8	1,176.5	30.30	39.826		
8,300.0	7,174.0	7,169.0	7,165.9	27.1	6.3	89.18	-1,775.3	-469.6	1,152.2	1,120.3	31.82	36.203		
8,400.0	7,174.0	7,168.9	7,165.8	28.5	6.3	89.17	-1,775.3	-469.6	1,103.9	1,070.5	33.37	33.075		
8,500.0	7,174.0	7,168.7	7,165.6	30.0	6.3	89.17	-1,775.3	-469.6	1,062.8	1,027.9	34.95	30.411		
8,600.0	7,174.0	7,168.6	7,165.5	31.6	6.3	89.16	-1,775.3	-469.6	1,029.9	993.3	36.54	28.184		
8,700.0	7,174.0	7,168.4	7,165.3	33.1	6.3	89.15	-1,775.3	-469.6	1,005.8	967.7	38.15	26.364		
8,800.0	7,174.0	7,168.2	7,165.1	34.7	6.3	89.14	-1,775.3	-469.6	991.4	951.6	39.78	24.923		
8,894.7	7,174.0	7,168.1	7,165.0	36.2	6.3	89.13	-1,775.3	-469.6	986.8	945.5	41.33	23.879 CC		
8,900.0	7,174.0	7,168.1	7,165.0	36.3	6.3	89.13	-1,775.3	-469.6	986.8	945.4	41.41	23.829 ES		
9,000.0	7,174.0	7,167.9	7,164.8	37.9	6.3	89.12	-1,775.3	-469.6	992.4	949.4	43.06	23.047		
9,100.0	7,174.0	7,167.7	7,164.6	39.5	6.3	89.11	-1,775.3	-469.6	1,008.0	963.2	44.72	22.540		
9,200.0	7,174.0	7,167.5	7,164.4	41.1	6.3	89.10	-1,775.3	-469.6	1,033.0	986.6	46.38	22.270		
9,300.0	7,174.0	7,167.3	7,164.2	42.7	6.3	89.08	-1,775.3	-469.6	1,066.8	1,018.8	48.06	22.199 SF		
9,400.0	7,174.0	7,167.1	7,164.0	44.4	6.3	89.07	-1,775.3	-469.6	1,108.7	1,058.9	49.74	22.291		
9,500.0	7,174.0	7,166.9	7,163.8	46.0	6.3	89.06	-1,775.3	-469.6	1,157.7	1,106.3	51.42	22.514		
9,600.0	7,174.0	7,166.7	7,163.6	47.7	6.3	89.05	-1,775.3	-469.6	1,213.0	1,159.9	53.11	22.839		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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							
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Total	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis			
9,700.0	7,174.0	7,247.3	7,244.2	49.3	6.4	92.86	-3,100.9	-589.0	1,223.5	1,168.7	54.87	22.299		
9,800.0	7,174.0	7,247.5	7,244.4	51.0	6.4	92.87	-3,100.9	-589.0	1,184.5	1,127.9	56.57	20.940		
9,900.0	7,174.0	7,247.7	7,244.6	52.7	6.4	92.88	-3,100.9	-588.9	1,152.8	1,094.5	58.26	19.785		
10,000.0	7,174.0	7,247.9	7,244.8	54.4	6.4	92.89	-3,100.9	-588.9	1,129.1	1,069.1	59.97	18.828		
10,100.0	7,174.0	7,248.1	7,245.0	56.1	6.4	92.90	-3,100.9	-588.9	1,113.9	1,052.2	61.67	18.061		
10,200.0	7,174.0	7,248.3	7,245.3	57.8	6.4	92.91	-3,100.9	-588.9	1,107.6	1,044.2	63.38	17.474		
10,220.3	7,174.0	7,248.4	7,245.3	58.1	6.4	92.91	-3,100.9	-588.9	1,107.4	1,043.7	63.73	17.376	CC, ES	
10,300.0	7,174.0	7,248.5	7,245.5	59.4	6.4	92.92	-3,100.9	-588.9	1,110.2	1,045.2	65.09	17.056		
10,400.0	7,174.0	7,248.7	7,245.7	61.1	6.4	92.93	-3,100.9	-588.9	1,121.9	1,055.1	66.81	16.792		
10,500.0	7,174.0	7,249.0	7,245.9	62.8	6.4	92.94	-3,100.9	-588.9	1,142.2	1,073.6	68.52	16.668		
10,600.0	7,174.0	7,249.2	7,246.1	64.5	6.4	92.95	-3,100.9	-588.9	1,170.7	1,100.4	70.24	16.666	SF	
10,700.0	7,174.0	7,249.4	7,246.3	66.3	6.4	92.97	-3,100.9	-588.9	1,206.8	1,134.9	71.96	16.771		
10,800.0	7,174.0	7,249.6	7,246.5	68.0	6.4	92.98	-3,100.9	-588.9	1,249.9	1,176.3	73.68	16.964		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 3-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
9,800.0	7,174.0	7,207.7	7,205.0	51.0	6.3	89.42	-3,932.4	317.8	1,267.5	1,210.9	56.54	22.416		
9,900.0	7,174.0	7,207.9	7,205.2	52.7	6.3	89.47	-3,932.4	317.8	1,168.8	1,110.6	58.25	20.067		
10,000.0	7,174.0	7,208.1	7,205.3	54.4	6.3	89.52	-3,932.4	317.8	1,070.4	1,010.4	59.95	17.854		
10,100.0	7,174.0	7,208.2	7,205.5	56.1	6.3	89.57	-3,932.4	317.8	972.3	910.7	61.66	15.769		
10,200.0	7,174.0	7,208.4	7,205.7	57.8	6.3	89.62	-3,932.4	317.8	874.7	811.3	63.37	13.802		
10,300.0	7,174.0	7,208.6	7,205.9	59.4	6.3	89.67	-3,932.4	317.8	777.6	712.6	65.09	11.948		
10,400.0	7,174.0	7,208.8	7,206.0	61.1	6.3	89.72	-3,932.4	317.8	681.5	614.7	66.80	10.201		
10,500.0	7,174.0	7,208.9	7,206.2	62.8	6.3	89.77	-3,932.4	317.8	586.6	518.0	68.52	8.560		
10,600.0	7,174.0	7,209.1	7,206.4	64.5	6.3	89.82	-3,932.4	317.8	493.7	423.4	70.24	7.028		
10,700.0	7,174.0	7,209.3	7,206.6	66.3	6.3	89.87	-3,932.4	317.8	404.2	332.2	71.97	5.617		
10,800.0	7,174.0	7,209.5	7,206.7	68.0	6.3	89.92	-3,932.4	317.8	321.0	247.3	73.69	4.356		
10,900.0	7,174.0	7,209.6	7,206.9	69.7	6.3	89.97	-3,932.4	317.8	250.4	175.0	75.42	3.320		
11,000.0	7,174.0	7,209.8	7,207.1	71.4	6.3	90.02	-3,932.4	317.8	205.8	128.7	77.14	2.668		
11,051.7	7,174.0	7,209.9	7,207.2	72.3	6.3	90.05	-3,932.4	317.8	199.2	121.2	78.04	2.553	CC, ES, SF	
11,100.0	7,174.0	7,210.0	7,207.3	73.1	6.3	90.07	-3,932.4	317.8	205.0	126.1	78.87	2.599		
11,200.0	7,174.0	7,210.2	7,207.4	74.8	6.3	90.12	-3,932.4	317.8	248.4	167.8	80.60	3.081		
11,300.0	7,174.0	7,210.3	7,207.6	76.5	6.3	90.17	-3,932.4	317.8	318.4	236.0	82.33	3.867		
11,400.0	7,174.0	7,210.5	7,207.8	78.3	6.3	90.22	-3,932.4	317.8	401.3	317.2	84.06	4.773		
11,500.0	7,174.0	7,210.7	7,207.9	80.0	6.3	90.27	-3,932.4	317.8	490.6	404.8	85.80	5.718		
11,600.0	7,174.0	7,210.8	7,208.1	81.7	6.3	90.32	-3,932.4	317.8	583.4	495.8	87.53	6.665		
11,700.0	7,174.0	7,211.0	7,208.3	83.4	6.3	90.37	-3,932.4	317.8	678.2	589.0	89.26	7.598		
11,701.9	7,174.0	7,211.0	7,208.3	83.5	6.3	90.37	-3,932.4	317.8	680.1	590.8	89.30	7.616		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
10,700.0	7,174.0	7,210.6	7,207.2	66.3	6.3	90.61	-4,342.5	-450.4	1,231.3	1,159.4	71.93	17.118		
10,800.0	7,174.0	7,210.7	7,207.3	68.0	6.3	90.61	-4,342.5	-450.4	1,172.1	1,098.5	73.66	15.913		
10,900.0	7,174.0	7,210.8	7,207.4	69.7	6.3	90.62	-4,342.5	-450.4	1,118.7	1,043.3	75.38	14.840		
11,000.0	7,174.0	7,210.9	7,207.5	71.4	6.3	90.62	-4,342.5	-450.4	1,072.0	994.9	77.11	13.902		
11,100.0	7,174.0	7,210.9	7,207.6	73.1	6.3	90.63	-4,342.5	-450.4	1,032.8	954.0	78.84	13.101		
11,200.0	7,174.0	7,211.0	7,207.6	74.8	6.3	90.63	-4,342.5	-450.4	1,002.2	921.6	80.57	12.440		
11,300.0	7,174.0	7,211.1	7,207.7	76.5	6.3	90.63	-4,342.5	-450.4	980.8	898.5	82.30	11.918		
11,400.0	7,174.0	7,211.2	7,207.8	78.3	6.3	90.64	-4,342.5	-450.4	969.4	885.3	84.03	11.536		
11,461.8	7,174.0	7,211.2	7,207.9	79.3	6.3	90.64	-4,342.5	-450.4	967.4	882.3	85.10	11.368 CC, ES		
11,500.0	7,174.0	7,211.3	7,207.9	80.0	6.3	90.64	-4,342.5	-450.4	968.2	882.4	85.76	11.289		
11,600.0	7,174.0	7,211.4	7,208.0	81.7	6.3	90.65	-4,342.5	-450.4	977.2	889.7	87.49	11.169		
11,700.0	7,174.0	7,211.4	7,208.1	83.4	6.3	90.65	-4,342.5	-450.4	996.3	907.1	89.23	11.166 SF		
11,701.9	7,174.0	7,211.4	7,208.1	83.5	6.3	90.65	-4,342.5	-450.4	996.8	907.5	89.26	11.167		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 41-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	106.51	-218.2	736.2	768.0					
100.0	100.0	82.0	82.0	0.2	0.1	106.49	-218.0	736.4	768.0	767.8	0.22	3,436.849		
200.0	200.0	183.3	183.3	0.3	0.2	106.44	-217.4	737.0	768.4	767.9	0.49	1,579.949		
300.0	300.0	284.6	284.6	0.5	0.2	106.39	-216.9	737.2	768.5	767.7	0.75	1,025.577		
400.0	400.0	385.6	385.5	0.7	0.3	106.35	-216.4	737.4	768.5	767.5	1.01	759.412		
500.0	500.0	486.6	486.6	0.9	0.4	38.37	-215.9	737.4	767.6	766.4	1.28	601.871		
600.0	600.0	586.7	586.7	1.0	0.5	38.47	-215.5	737.3	765.4	763.8	1.54	497.418		
700.0	699.9	687.0	687.0	1.2	0.6	38.66	-214.9	737.2	761.7	759.9	1.80	422.081		
800.0	799.7	786.4	786.3	1.4	0.7	38.94	-214.3	737.1	756.7	754.6	2.07	364.902		
900.0	899.4	883.1	883.1	1.6	0.8	39.30	-213.8	737.2	750.5	748.2	2.35	319.906		
1,000.0	998.9	981.6	981.6	1.8	0.9	39.78	-213.4	737.6	743.4	740.8	2.63	282.915		
1,100.0	1,098.3	1,081.3	1,081.3	2.1	0.9	40.36	-213.1	738.0	735.0	732.1	2.92	251.716		
1,200.0	1,197.4	1,181.8	1,181.8	2.3	1.0	41.08	-212.9	738.3	725.3	722.0	3.23	224.874		
1,300.0	1,296.3	1,277.6	1,277.6	2.6	1.1	41.89	-212.9	738.5	714.4	710.8	3.54	201.728		
1,400.0	1,394.9	1,379.4	1,379.3	2.9	1.2	42.85	-212.5	739.1	702.5	698.7	3.88	181.026		
1,500.0	1,493.4	1,474.8	1,474.8	3.3	1.3	43.78	-212.4	739.3	690.0	685.8	4.22	163.319		
1,600.0	1,591.9	1,576.6	1,576.6	3.6	1.4	44.85	-212.9	739.6	677.9	673.3	4.59	147.854		
1,700.0	1,690.4	1,672.4	1,672.4	3.9	1.5	45.88	-213.1	739.6	665.7	660.8	4.95	134.546		
1,800.0	1,788.9	1,771.0	1,771.0	4.3	1.5	47.00	-213.6	740.0	654.2	648.9	5.32	122.908		
1,900.0	1,887.3	1,871.9	1,871.8	4.6	1.6	48.13	-213.6	740.3	642.7	637.0	5.71	112.587		
2,000.0	1,985.8	1,970.0	1,970.0	4.9	1.7	49.27	-213.4	740.5	631.2	625.1	6.10	103.494		
2,100.0	2,084.3	2,070.9	2,070.9	5.3	1.8	50.49	-213.2	740.6	619.9	613.4	6.50	95.360		
2,200.0	2,182.8	2,168.0	2,168.0	5.6	1.9	51.69	-212.9	740.5	608.6	601.7	6.91	88.126		
2,300.0	2,281.3	2,266.0	2,265.9	6.0	2.0	52.92	-212.4	740.8	598.0	590.7	7.32	81.692		
2,400.0	2,379.7	2,366.1	2,366.1	6.3	2.1	54.20	-211.6	741.2	587.5	579.8	7.74	75.868		
2,500.0	2,478.2	2,467.2	2,467.1	6.7	2.2	55.53	-210.6	741.3	577.0	568.8	8.18	70.563		
2,600.0	2,576.7	2,566.0	2,565.9	7.0	2.2	56.90	-209.6	741.1	566.4	557.8	8.61	65.753		
2,700.0	2,675.2	2,663.9	2,663.8	7.4	2.3	58.29	-208.6	741.0	556.3	547.3	9.06	61.415		
2,800.0	2,773.7	2,761.9	2,761.8	7.7	2.4	59.73	-207.5	741.0	546.7	537.2	9.51	57.488		
2,900.0	2,872.1	2,860.2	2,860.1	8.1	2.5	61.20	-206.4	741.2	537.4	527.5	9.97	53.926		
3,000.0	2,970.6	2,959.2	2,959.1	8.4	2.6	62.70	-205.1	741.5	528.6	518.2	10.43	50.679		
3,100.0	3,069.1	3,057.6	3,057.5	8.8	2.7	64.24	-203.6	741.9	520.0	509.1	10.90	47.716		
3,200.0	3,167.6	3,158.2	3,158.1	9.1	2.8	65.84	-202.0	742.3	511.9	500.5	11.37	45.001		
3,300.0	3,266.1	3,258.3	3,258.2	9.5	2.8	67.46	-199.9	742.5	503.5	491.7	11.85	42.478		
3,400.0	3,364.5	3,359.6	3,359.5	9.8	2.9	69.17	-197.7	742.5	495.4	483.1	12.34	40.151		
3,500.0	3,463.0	3,460.3	3,460.1	10.2	3.0	71.00	-195.4	741.5	487.0	474.2	12.83	37.966		
3,600.0	3,561.5	3,558.4	3,558.2	10.5	3.1	72.92	-193.5	739.9	479.1	465.7	13.32	35.971		
3,700.0	3,660.1	3,653.7	3,653.4	10.8	3.2	74.80	-192.4	738.0	472.1	458.4	13.78	34.255		
3,800.0	3,759.0	3,746.7	3,746.5	11.1	3.3	76.46	-191.8	736.9	467.2	453.0	14.21	32.875		
3,900.0	3,858.1	3,840.9	3,840.6	11.4	3.4	78.03	-192.3	736.3	464.4	449.7	14.61	31.783		
4,000.0	3,957.4	3,938.4	3,938.2	11.7	3.4	79.43	-193.2	736.4	462.9	447.9	14.98	30.897		
4,100.0	4,057.0	4,036.6	4,036.4	11.9	3.5	80.61	-194.1	736.8	462.2	446.9	15.32	30.170		
4,127.0	4,083.9	4,063.0	4,062.7	12.0	3.6	80.90	-194.5	736.9	462.2	446.8	15.40	30.003		
4,200.0	4,156.6	4,134.2	4,134.0	12.1	3.6	81.62	-195.6	737.1	462.4	446.8	15.63	29.585		
4,300.0	4,256.4	4,231.7	4,231.5	12.3	3.7	82.43	-197.4	737.7	463.4	447.5	15.91	29.129		
4,400.0	4,356.3	4,329.3	4,328.9	12.4	3.8	83.11	-199.9	738.0	465.3	449.1	16.16	28.788		
4,500.0	4,456.3	4,428.5	4,428.1	12.6	3.9	83.60	-202.9	738.4	467.8	451.4	16.39	28.538		
4,600.0	4,556.3	4,529.4	4,529.0	12.7	4.0	83.89	-205.8	738.7	470.3	453.7	16.59	28.346		
4,700.0	4,656.3	4,629.3	4,628.8	12.8	4.0	152.02	-208.6	739.1	473.0	456.2	16.79	28.165		
4,800.0	4,756.3	4,729.1	4,728.6	12.9	4.1	152.15	-211.4	739.4	475.6	458.6	16.99	27.987		
4,900.0	4,856.3	4,828.7	4,828.1	13.0	4.2	152.27	-214.2	739.7	478.3	461.1	17.20	27.814		
5,000.0	4,956.3	4,928.2	4,927.6	13.1	4.3	152.38	-217.1	740.2	481.1	463.7	17.40	27.650		

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 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 41-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis			Distance			Total Uncertainty Axis	Separation Factor	Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)				Between Ellipses (ft)	
5,100.0	5,056.3	5,028.0	5,027.3	13.3	4.4	152.48	-220.0	740.7	484.0	466.3	17.61	27.489		
5,200.0	5,156.3	5,126.3	5,125.6	13.4	4.5	152.53	-222.9	741.7	487.0	469.2	17.81	27.344		
5,300.0	5,256.3	5,226.1	5,225.3	13.5	4.6	152.59	-226.1	742.9	490.4	472.4	18.02	27.219		
5,400.0	5,356.3	5,331.3	5,330.5	13.6	4.7	152.58	-228.6	744.2	493.0	474.8	18.23	27.047		
5,500.0	5,456.3	5,433.2	5,432.5	13.7	4.7	152.53	-230.1	745.5	494.9	476.5	18.44	26.843		
5,600.0	5,556.3	5,534.5	5,533.7	13.9	4.8	152.41	-231.2	747.2	496.7	478.0	18.65	26.636		
5,700.0	5,656.3	5,637.2	5,636.4	14.0	4.9	152.25	-231.6	749.0	497.9	479.0	18.86	26.399		
5,800.0	5,756.3	5,739.9	5,739.1	14.1	5.0	152.15	-232.0	750.2	498.7	479.6	19.07	26.147		
5,900.0	5,856.3	5,843.4	5,842.5	14.2	5.1	152.03	-231.4	751.1	498.7	479.4	19.29	25.854		
6,000.0	5,956.3	5,943.8	5,942.9	14.4	5.2	151.96	-230.9	751.5	498.4	478.9	19.50	25.556		
6,100.0	6,056.3	6,043.4	6,042.6	14.5	5.3	151.91	-230.4	751.7	498.0	478.3	19.72	25.260		
6,187.9	6,144.1	6,130.0	6,129.1	14.6	5.4	151.84	-230.0	752.3	497.9	478.0	19.90	25.017		
6,200.0	6,156.3	6,142.0	6,141.2	14.6	5.4	151.82	-229.9	752.4	497.9	478.0	19.93	24.985		
6,300.0	6,256.3	6,241.1	6,240.2	14.7	5.4	151.72	-229.6	753.2	498.0	477.9	20.14	24.723		
6,400.0	6,356.3	6,339.1	6,338.2	14.9	5.5	151.61	-229.5	754.2	498.4	478.0	20.36	24.480		
6,500.0	6,456.3	6,435.2	6,434.4	15.0	5.6	151.52	-229.9	755.3	499.4	478.8	20.57	24.271		
6,600.0	6,556.0	6,529.9	6,529.0	15.1	5.7	-29.11	-231.0	757.1	495.3	474.7	20.66	23.980		
6,700.0	6,653.8	6,626.3	6,625.4	15.1	5.8	-31.11	-232.6	759.8	480.2	459.7	20.49	23.433		
6,800.0	6,747.7	6,728.1	6,727.1	15.1	5.9	-34.90	-233.6	762.0	453.2	433.1	20.10	22.544		
6,900.0	6,836.0	6,822.3	6,821.3	15.2	6.0	-40.85	-233.7	762.8	415.1	395.6	19.51	21.278		
7,000.0	6,917.0	6,906.1	6,905.1	15.2	6.0	-49.55	-233.2	762.9	369.2	350.3	18.86	19.576		
7,100.0	6,989.0	6,978.9	6,977.9	15.4	6.1	-61.23	-232.2	762.7	320.1	301.6	18.47	17.326		
7,200.0	7,050.7	7,039.5	7,038.5	15.7	6.1	-74.49	-231.1	762.6	275.7	257.0	18.70	14.747		
7,300.0	7,100.9	7,087.8	7,086.8	16.1	6.2	-86.28	-230.1	762.6	248.3	228.9	19.39	12.805		
7,341.6	7,118.1	7,104.2	7,103.2	16.3	6.2	-90.02	-229.8	762.6	245.3	225.6	19.75	12.422	CC, ES, SF	
7,400.0	7,138.5	7,123.2	7,122.2	16.7	6.2	-93.72	-229.4	762.6	251.5	231.3	20.21	12.445		
7,500.0	7,162.9	7,145.5	7,144.5	17.4	6.2	-95.46	-228.9	762.6	288.9	267.8	21.08	13.703		
7,600.0	7,173.5	7,154.1	7,153.1	18.3	6.2	-90.92	-228.8	762.6	351.8	329.6	22.15	15.883		
7,700.0	7,174.0	7,152.7	7,151.7	19.3	6.2	-88.28	-228.8	762.6	429.1	405.8	23.33	18.395		
7,800.0	7,174.0	7,150.7	7,149.7	20.4	6.2	-87.82	-228.8	762.6	514.3	489.7	24.58	20.920		
7,900.0	7,174.0	7,148.7	7,147.7	21.6	6.2	-87.36	-228.9	762.6	604.1	578.1	25.91	23.309		
8,000.0	7,174.0	7,146.7	7,145.7	22.9	6.2	-86.89	-228.9	762.6	696.6	669.3	27.31	25.511		
8,100.0	7,174.0	7,144.7	7,143.6	24.3	6.2	-86.42	-228.9	762.6	791.0	762.2	28.74	27.518		
8,200.0	7,174.0	7,142.6	7,141.6	25.7	6.2	-85.95	-229.0	762.6	886.5	856.3	30.22	29.338		
8,300.0	7,174.0	7,140.6	7,139.6	27.1	6.2	-85.47	-229.0	762.6	983.0	951.3	31.72	30.986		
8,400.0	7,174.0	7,138.5	7,137.5	28.5	6.2	-84.99	-229.1	762.6	1,080.1	1,046.9	33.25	32.481		
8,500.0	7,174.0	7,136.4	7,135.4	30.0	6.2	-84.51	-229.1	762.6	1,177.7	1,142.9	34.80	33.838		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 42-34 (EXISTING) - EXISTING - GYRO													Offset Site Error:	0.0 ft
Survey Program: 100-Gyro													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		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)						
8,000.0	7,174.0	7,221.1	7,215.2	22.9	6.5	-96.42	-2,092.1	829.8	1,251.6	1,224.2	27.36	45.754		
8,100.0	7,174.0	7,217.6	7,211.7	24.3	6.5	-95.79	-2,092.2	829.7	1,155.1	1,126.3	28.82	40.085		
8,200.0	7,174.0	7,214.1	7,208.2	25.7	6.5	-95.16	-2,092.4	829.7	1,059.2	1,028.9	30.32	34.936		
8,300.0	7,174.0	7,210.6	7,204.7	27.1	6.5	-94.52	-2,092.5	829.6	964.1	932.3	31.86	30.266		
8,400.0	7,174.0	7,207.1	7,201.2	28.5	6.5	-93.88	-2,092.6	829.5	870.2	836.8	33.42	26.038		
8,500.0	7,174.0	7,203.5	7,197.7	30.0	6.5	-93.24	-2,092.7	829.4	777.7	742.7	35.01	22.216		
8,600.0	7,174.0	7,200.0	7,194.1	31.6	6.4	-92.59	-2,092.9	829.3	687.3	650.7	36.61	18.773		
8,700.0	7,174.0	7,196.3	7,190.5	33.1	6.4	-91.92	-2,093.0	829.3	600.0	561.7	38.23	15.692		
8,800.0	7,174.0	7,192.7	7,186.8	34.7	6.4	-91.25	-2,093.1	829.2	517.2	477.3	39.87	12.973		
8,900.0	7,174.0	7,189.0	7,183.2	36.3	6.4	-90.58	-2,093.2	829.1	441.6	400.1	41.51	10.639		
9,000.0	7,174.0	7,185.4	7,179.5	37.9	6.4	-89.91	-2,093.4	829.0	377.5	334.3	43.16	8.746		
9,100.0	7,174.0	7,181.8	7,175.9	39.5	6.4	-89.24	-2,093.5	828.9	331.6	286.8	44.81	7.400		
9,200.0	7,174.0	7,178.1	7,172.3	41.1	6.4	-88.58	-2,093.6	828.8	312.1	265.6	46.47	6.716		
9,212.9	7,174.0	7,177.7	7,171.8	41.3	6.4	-88.49	-2,093.6	828.8	311.8	265.1	46.68	6.679 CC, ES, SF		
9,300.0	7,174.0	7,174.5	7,168.7	42.7	6.4	-87.91	-2,093.7	828.7	323.7	275.6	48.13	6.726		
9,400.0	7,174.0	7,170.9	7,165.0	44.4	6.4	-87.25	-2,093.9	828.6	363.6	313.8	49.79	7.303		
9,500.0	7,174.0	7,167.3	7,161.4	46.0	6.4	-86.59	-2,094.0	828.5	423.7	372.3	51.44	8.237		
9,600.0	7,174.0	7,163.7	7,157.9	47.7	6.4	-85.93	-2,094.1	828.4	496.9	443.8	53.10	9.358		
9,700.0	7,174.0	7,160.1	7,154.3	49.3	6.4	-85.27	-2,094.2	828.3	578.1	523.3	54.75	10.559		
9,800.0	7,174.0	7,156.5	7,150.7	51.0	6.4	-84.62	-2,094.4	828.2	664.4	608.0	56.40	11.782		
9,900.0	7,174.0	7,153.0	7,147.1	52.7	6.4	-83.97	-2,094.5	828.1	754.2	696.1	58.04	12.994		
10,000.0	7,174.0	7,149.4	7,143.6	54.4	6.4	-83.32	-2,094.6	828.0	846.2	786.5	59.67	14.180		
10,100.0	7,174.0	7,145.8	7,140.0	56.1	6.4	-82.67	-2,094.7	827.9	939.8	878.5	61.30	15.332		
10,200.0	7,174.0	7,142.3	7,136.5	57.8	6.4	-82.02	-2,094.8	827.8	1,034.6	971.7	62.92	16.444		
10,300.0	7,174.0	7,138.7	7,132.9	59.4	6.4	-81.38	-2,095.0	827.7	1,130.3	1,065.8	64.53	17.517		
10,400.0	7,174.0	7,135.2	7,129.4	61.1	6.4	-80.74	-2,095.1	827.5	1,226.7	1,160.5	66.13	18.551		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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							
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
8,800.0	7,174.0	7,184.4	7,181.0	34.7	6.3	81.20	-2,913.2	452.5	1,234.2	1,194.8	39.40	31.322	
8,900.0	7,174.0	7,185.2	7,181.8	36.3	6.3	81.86	-2,913.2	452.5	1,134.3	1,093.3	41.08	27.616	
9,000.0	7,174.0	7,186.0	7,182.5	37.9	6.3	82.52	-2,913.2	452.5	1,034.5	991.8	42.76	24.193	
9,100.0	7,174.0	7,186.7	7,183.3	39.5	6.3	83.19	-2,913.2	452.5	934.7	890.3	44.45	21.027	
9,200.0	7,174.0	7,187.5	7,184.1	41.1	6.3	83.86	-2,913.2	452.5	835.0	788.8	46.16	18.090	
9,300.0	7,174.0	7,188.3	7,184.8	42.7	6.3	84.53	-2,913.2	452.5	735.3	687.5	47.87	15.362	
9,400.0	7,174.0	7,189.0	7,185.6	44.4	6.3	85.20	-2,913.2	452.5	635.8	586.2	49.58	12.823	
9,500.0	7,174.0	7,189.8	7,186.3	46.0	6.3	85.88	-2,913.2	452.4	536.4	485.1	51.30	10.456	
9,600.0	7,174.0	7,190.5	7,187.1	47.7	6.3	86.55	-2,913.2	452.4	437.3	384.3	53.02	8.248	
9,700.0	7,174.0	7,191.3	7,187.9	49.3	6.3	87.23	-2,913.2	452.4	338.7	284.0	54.74	6.188	
9,800.0	7,174.0	7,192.1	7,188.6	51.0	6.3	87.90	-2,913.2	452.4	241.3	184.9	56.47	4.274	
9,900.0	7,174.0	7,192.8	7,189.4	52.7	6.3	88.58	-2,913.2	452.4	147.4	89.3	58.19	2.534	
10,000.0	7,174.0	7,193.6	7,190.2	54.4	6.3	89.26	-2,913.2	452.4	72.4	12.5	59.91	1.208	Level 2
10,032.5	7,174.0	7,193.9	7,190.4	54.9	6.3	89.48	-2,913.2	452.4	64.6	4.2	60.46	1.069	Level 2, CC, ES, SF
10,100.0	7,174.0	7,194.4	7,190.9	56.1	6.3	89.93	-2,913.2	452.4	93.4	31.8	61.62	1.516	
10,200.0	7,174.0	7,195.1	7,191.7	57.8	6.3	90.61	-2,913.2	452.4	179.5	116.2	63.33	2.835	
10,300.0	7,174.0	7,195.9	7,192.5	59.4	6.3	91.29	-2,913.2	452.4	275.2	210.1	65.04	4.231	
10,400.0	7,174.0	7,196.7	7,193.2	61.1	6.3	91.97	-2,913.2	452.4	373.1	306.4	66.74	5.591	
10,500.0	7,174.0	7,197.4	7,194.0	62.8	6.3	92.64	-2,913.3	452.4	471.9	403.5	68.43	6.896	
10,600.0	7,174.0	7,198.2	7,194.8	64.5	6.3	93.32	-2,913.3	452.4	571.1	501.0	70.12	8.146	
10,700.0	7,174.0	7,199.0	7,195.5	66.3	6.3	93.99	-2,913.3	452.4	670.6	598.8	71.79	9.341	
10,800.0	7,174.0	7,199.7	7,196.3	68.0	6.3	94.67	-2,913.3	452.4	770.2	696.7	73.46	10.484	
10,900.0	7,174.0	7,200.0	7,196.6	69.7	6.3	94.91	-2,913.3	452.4	869.9	794.7	75.16	11.574	
11,000.0	7,174.0	7,200.0	7,196.6	71.4	6.3	94.91	-2,913.3	452.4	969.6	892.7	76.88	12.612	
11,100.0	7,174.0	7,200.0	7,196.6	73.1	6.3	94.91	-2,913.3	452.4	1,069.4	990.8	78.60	13.606	
11,200.0	7,174.0	7,200.0	7,196.6	74.8	6.3	94.91	-2,913.3	452.4	1,169.2	1,088.9	80.32	14.557	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-34H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	Hz	Database:	USA EDM 5000 Multi Users DB
Reference Design:	Plan #1	Offset TVD Reference:	Offset Datum

Offset Design S34-T3N-R66W (Devore) - DEVORE 44-34 (EXISTING) - EXISTING - GYRO										Offset Site Error:		0.0 ft	
Survey Program: 100-Gyro										Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance					Warning	
Measured Depth (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	7,174.0	7,236.1	7,234.1	61.1	6.3	-90.01	-4,508.6	768.7	1,253.4	1,186.6	66.81	18.762	
10,500.0	7,174.0	7,236.1	7,234.1	62.8	6.3	-90.02	-4,508.6	768.6	1,155.6	1,087.1	68.53	16.864	
10,600.0	7,174.0	7,236.1	7,234.1	64.5	6.3	-90.03	-4,508.6	768.6	1,058.3	988.0	70.25	15.065	
10,700.0	7,174.0	7,236.2	7,234.1	66.3	6.3	-90.03	-4,508.6	768.6	961.4	889.5	71.97	13.359	
10,800.0	7,174.0	7,236.2	7,234.2	68.0	6.3	-90.04	-4,508.6	768.6	865.3	791.6	73.69	11.742	
10,900.0	7,174.0	7,236.2	7,234.2	69.7	6.3	-90.05	-4,508.6	768.6	770.2	694.8	75.42	10.212	
11,000.0	7,174.0	7,236.3	7,234.2	71.4	6.3	-90.05	-4,508.6	768.6	676.5	599.3	77.15	8.769	
11,100.0	7,174.0	7,236.3	7,234.3	73.1	6.3	-90.06	-4,508.6	768.6	584.8	506.0	78.87	7.415	
11,200.0	7,174.0	7,236.3	7,234.3	74.8	6.3	-90.07	-4,508.6	768.6	496.4	415.8	80.60	6.159	
11,300.0	7,174.0	7,236.3	7,234.3	76.5	6.3	-90.07	-4,508.6	768.6	413.4	331.0	82.33	5.021	
11,400.0	7,174.0	7,236.4	7,234.4	78.3	6.3	-90.08	-4,508.6	768.6	339.5	255.5	84.06	4.039	
11,500.0	7,174.0	7,236.4	7,234.4	80.0	6.3	-90.09	-4,508.6	768.6	282.3	196.5	85.80	3.291	
11,600.0	7,174.0	7,236.4	7,234.4	81.7	6.3	-90.09	-4,508.6	768.6	253.2	165.7	87.53	2.893	
11,627.9	7,174.0	7,236.4	7,234.4	82.2	6.3	-90.09	-4,508.6	768.6	251.7	163.7	88.01	2.860 CC, ES, SF	
11,700.0	7,174.0	7,236.5	7,234.4	83.4	6.3	-90.10	-4,508.6	768.6	261.8	172.6	89.26	2.933	
11,701.9	7,174.0	7,236.5	7,234.4	83.5	6.3	-90.10	-4,508.6	768.6	262.4	173.1	89.30	2.938	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	103.99	-183.2	735.1	757.5					
100.0	100.0	100.3	100.3	0.2	0.2	103.99	-183.2	735.1	757.6	757.3	0.33	2,322.094		
200.0	200.0	199.7	199.7	0.3	0.3	103.99	-183.2	735.2	757.7	757.0	0.67	1,125.100		
300.0	300.0	299.0	299.0	0.5	0.5	103.99	-183.2	735.4	757.9	756.9	1.02	742.575		
400.0	400.0	398.4	398.4	0.7	0.7	103.99	-183.3	735.7	758.2	756.9	1.37	554.306		
500.0	500.0	497.7	497.7	0.9	0.9	36.02	-183.3	736.1	757.9	756.2	1.71	442.790		
600.0	600.0	597.1	597.1	1.0	1.0	36.14	-183.4	736.6	756.3	754.2	2.06	367.306		
700.0	699.9	696.4	696.4	1.2	1.2	36.35	-183.4	737.1	753.3	750.9	2.41	312.826		
800.0	799.7	795.6	795.6	1.4	1.4	36.64	-183.5	737.8	749.0	746.3	2.76	271.363		
900.0	899.4	894.7	894.7	1.6	1.6	37.03	-183.6	738.5	743.5	740.4	3.12	238.517		
1,000.0	998.9	993.6	993.6	1.8	1.7	37.51	-183.7	739.3	736.6	733.2	3.48	211.672		
1,100.0	1,098.3	1,092.5	1,092.4	2.1	1.9	38.08	-183.8	740.2	728.6	724.7	3.85	189.172		
1,200.0	1,197.4	1,191.1	1,191.1	2.3	2.1	38.76	-183.9	741.2	719.3	715.0	4.23	169.924		
1,300.0	1,296.3	1,292.2	1,292.1	2.6	2.2	39.58	-184.0	742.1	708.7	704.0	4.63	152.941		
1,400.0	1,394.9	1,405.7	1,405.6	2.9	2.4	40.59	-183.1	742.0	695.7	690.6	5.07	137.114		
1,500.0	1,493.4	1,529.0	1,528.9	3.3	2.7	41.56	-179.6	739.7	679.9	674.4	5.54	122.616		
1,600.0	1,591.9	1,673.4	1,672.6	3.6	2.9	42.73	-171.9	728.6	657.8	651.8	6.06	108.467		
1,700.0	1,690.4	1,785.2	1,783.4	3.9	3.1	43.68	-163.9	715.3	631.6	625.0	6.53	96.693		
1,800.0	1,788.9	1,893.1	1,889.9	4.3	3.4	44.72	-155.7	700.5	603.7	596.7	7.00	86.248		
1,900.0	1,887.3	1,987.6	1,983.0	4.6	3.6	45.83	-149.0	686.0	574.7	567.2	7.45	77.131		
2,000.0	1,985.8	2,081.0	2,075.3	4.9	3.8	47.14	-143.4	672.1	546.7	538.8	7.91	69.101		
2,100.0	2,084.3	2,183.4	2,176.2	5.3	4.1	48.69	-136.7	656.1	518.1	509.7	8.40	61.656		
2,200.0	2,182.8	2,278.6	2,269.8	5.6	4.4	50.38	-130.8	640.3	489.3	480.4	8.90	54.992		
2,300.0	2,281.3	2,372.3	2,362.1	6.0	4.7	52.31	-125.4	624.6	460.9	451.5	9.41	48.986		
2,400.0	2,379.7	2,466.9	2,455.2	6.3	5.0	54.51	-120.0	608.9	433.3	423.3	9.94	43.570		
2,500.0	2,478.2	2,560.8	2,547.7	6.7	5.2	57.00	-115.0	593.3	406.6	396.1	10.51	38.693		
2,600.0	2,576.7	2,653.7	2,639.1	7.0	5.5	59.81	-110.3	577.9	380.8	369.7	11.10	34.299		
2,700.0	2,675.2	2,748.1	2,732.2	7.4	5.8	63.13	-106.1	562.3	356.6	344.8	11.75	30.356		
2,800.0	2,773.7	2,842.2	2,824.9	7.7	6.1	66.88	-102.0	546.8	333.8	321.3	12.43	26.844		
2,900.0	2,872.1	2,939.1	2,920.2	8.1	6.4	71.34	-97.7	530.2	312.1	298.9	13.19	23.666		
3,000.0	2,970.6	3,032.0	3,011.7	8.4	6.7	76.15	-93.5	514.4	292.6	278.7	13.96	20.955		
3,100.0	3,069.1	3,125.8	3,104.2	8.8	7.0	81.47	-89.2	499.1	275.9	261.1	14.77	18.678		
3,200.0	3,167.6	3,222.1	3,199.1	9.1	7.4	87.48	-84.6	483.5	262.0	246.3	15.60	16.788		
3,300.0	3,266.1	3,313.8	3,289.4	9.5	7.7	93.76	-80.6	468.5	251.6	235.2	16.39	15.348		
3,400.0	3,364.5	3,404.6	3,379.2	9.8	7.9	100.12	-77.7	455.0	246.4	229.3	17.11	14.405		
3,448.4	3,412.2	3,448.9	3,423.0	10.0	8.1	103.26	-76.8	448.6	245.8	228.4	17.42	14.109 CC, ES		
3,500.0	3,463.0	3,498.1	3,471.7	10.2	8.2	106.79	-75.9	441.4	246.3	228.6	17.74	13.888		
3,600.0	3,561.5	3,596.3	3,568.7	10.5	8.5	113.86	-73.8	426.4	249.7	231.4	18.25	13.680 SF		
3,700.0	3,660.1	3,696.1	3,667.2	10.8	8.8	120.80	-69.8	410.8	255.0	236.3	18.62	13.692		
3,800.0	3,759.0	3,791.1	3,760.9	11.1	9.2	126.91	-65.4	395.7	262.0	243.2	18.87	13.888		
3,900.0	3,858.1	3,889.3	3,857.7	11.4	9.5	132.59	-60.5	380.2	270.7	251.7	19.03	14.227		
4,000.0	3,957.4	3,988.1	3,955.3	11.7	9.8	137.58	-55.0	365.5	279.7	260.5	19.14	14.609		
4,100.0	4,057.0	4,083.5	4,049.1	11.9	10.1	142.21	-48.7	349.9	289.0	269.8	19.24	15.023		
4,200.0	4,156.6	4,179.0	4,142.9	12.1	10.5	146.68	-42.2	332.5	299.8	280.5	19.31	15.525		
4,300.0	4,256.4	4,276.0	4,238.1	12.3	10.8	150.62	-36.0	315.4	310.7	291.3	19.38	16.028		
4,400.0	4,356.3	4,375.6	4,336.2	12.4	11.2	154.01	-30.2	298.9	321.1	301.6	19.49	16.475		
4,500.0	4,456.3	4,472.8	4,432.0	12.6	11.5	156.91	-24.8	283.3	330.8	311.1	19.62	16.857		
4,600.0	4,556.3	4,569.1	4,527.0	12.7	11.8	159.31	-20.6	268.3	340.0	320.2	19.78	17.185		
4,700.0	4,656.3	4,669.0	4,625.6	12.8	12.1	-130.45	-16.7	252.5	349.3	329.3	19.98	17.482		
4,800.0	4,756.3	4,774.1	4,729.3	12.9	12.5	-128.09	-10.7	236.9	357.3	337.1	20.20	17.690		
4,900.0	4,856.3	4,872.5	4,826.3	13.0	12.8	-125.70	-3.6	221.4	365.6	345.2	20.41	17.916		
5,000.0	4,956.3	4,972.6	4,924.9	13.1	13.2	-123.46	3.6	206.5	373.9	353.2	20.63	18.122		

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

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	Separation	Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis	Factor		
5,100.0	5,056.3	5,064.1	5,015.1	13.3	13.5	-121.53	9.5	192.1	383.8	363.0	20.86	18.398		
5,200.0	5,156.3	5,160.5	5,110.2	13.4	13.8	-119.75	14.3	176.6	395.1	374.0	21.11	18.715		
5,300.0	5,256.3	5,259.2	5,207.4	13.5	14.1	-118.07	18.7	160.5	407.3	386.0	21.38	19.053		
5,400.0	5,356.3	5,363.6	5,310.3	13.6	14.5	-116.32	24.3	143.9	419.1	397.5	21.66	19.354		
5,500.0	5,456.3	5,460.4	5,405.8	13.7	14.8	-114.81	29.6	129.3	430.5	408.6	21.94	19.624		
5,600.0	5,556.3	5,560.7	5,504.7	13.9	15.2	-113.18	36.0	113.2	442.6	420.4	22.22	19.915		
5,700.0	5,656.3	5,669.1	5,611.7	14.0	15.5	-111.62	42.7	97.5	453.8	431.3	22.52	20.148		
5,800.0	5,756.3	5,775.9	5,717.5	14.1	15.8	-110.27	49.2	84.6	462.9	440.1	22.83	20.274		
5,900.0	5,856.3	5,871.4	5,812.2	14.2	16.1	-109.07	55.6	73.4	471.8	448.6	23.13	20.401		
6,000.0	5,956.3	5,968.4	5,908.2	14.4	16.4	-108.05	60.4	61.2	482.1	458.7	23.43	20.574		
6,100.0	6,056.3	6,067.6	6,006.3	14.5	16.7	-106.72	68.1	48.3	492.3	468.5	23.75	20.725		
6,200.0	6,156.3	6,168.8	6,106.0	14.6	17.0	-105.09	78.8	34.4	502.7	478.6	24.07	20.888		
6,300.0	6,256.3	6,271.2	6,207.0	14.7	17.4	-103.57	89.3	21.5	512.5	488.1	24.38	21.019		
6,400.0	6,356.3	6,373.8	6,308.4	14.9	17.7	-102.19	99.2	9.0	522.3	497.6	24.70	21.144		
6,500.0	6,456.3	6,480.6	6,414.2	15.0	18.0	-100.98	108.1	-2.3	531.0	506.0	25.02	21.221		
6,600.0	6,556.0	6,585.6	6,518.6	15.1	18.2	80.04	113.9	-11.5	537.5	512.2	25.28	21.263		
6,700.0	6,653.8	6,692.7	6,625.4	15.1	18.4	82.55	117.1	-19.0	540.8	515.5	25.34	21.344		
6,800.0	6,747.7	6,801.9	6,734.5	15.1	18.6	86.59	118.7	-23.5	541.7	516.4	25.27	21.438		
6,900.0	6,836.0	6,898.5	6,831.1	15.2	18.7	91.31	119.4	-25.0	542.6	517.4	25.15	21.571		
7,000.0	6,917.0	6,979.2	6,911.7	15.2	18.8	95.82	119.8	-25.9	548.6	523.6	25.06	21.891		
7,100.0	6,989.0	7,048.9	6,981.5	15.4	18.9	99.63	120.3	-26.7	563.5	538.5	25.04	22.510		
7,200.0	7,050.7	7,108.0	7,040.6	15.7	19.0	102.19	120.8	-27.6	590.0	564.8	25.18	23.432		
7,300.0	7,100.9	7,155.8	7,088.4	16.1	19.1	102.98	121.2	-28.5	629.3	603.6	25.67	24.515		
7,400.0	7,138.5	7,191.5	7,124.0	16.7	19.1	101.54	121.5	-29.2	680.9	654.2	26.65	25.549		
7,500.0	7,162.9	7,214.3	7,146.8	17.4	19.2	97.46	121.7	-29.7	743.3	715.2	28.08	26.467		
7,600.0	7,173.5	7,223.8	7,156.3	18.3	19.2	90.43	121.8	-29.9	814.1	784.5	29.56	27.536		
7,700.0	7,174.0	7,223.4	7,156.0	19.3	19.2	88.01	121.8	-29.9	890.6	859.9	30.74	28.977		
7,800.0	7,174.0	7,222.6	7,155.1	20.4	19.2	87.92	121.8	-29.9	971.4	939.4	31.99	30.363		
7,900.0	7,174.0	7,221.7	7,154.3	21.6	19.2	87.83	121.8	-29.9	1,055.6	1,022.2	33.33	31.671		
8,000.0	7,174.0	7,220.9	7,153.4	22.9	19.2	87.74	121.8	-29.9	1,142.2	1,107.5	34.72	32.895		
8,100.0	7,174.0	7,220.1	7,152.6	24.3	19.2	87.66	121.8	-29.8	1,230.9	1,194.8	36.17	34.033		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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	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)				
8,500.0	7,174.0	7,259.2	7,192.6	30.0	17.0	89.88	-2,449.6	-142.0	1,255.7	1,212.5	43.26	29.029		
8,600.0	7,174.0	7,260.2	7,193.6	31.6	17.0	89.96	-2,449.6	-141.9	1,171.8	1,126.9	44.85	26.125		
8,700.0	7,174.0	7,261.1	7,194.5	33.1	17.0	90.05	-2,449.6	-141.9	1,090.5	1,044.1	46.46	23.470		
8,800.0	7,174.0	7,262.0	7,195.5	34.7	17.0	90.13	-2,449.6	-141.9	1,012.7	964.6	48.09	21.058		
8,900.0	7,174.0	7,263.0	7,196.4	36.3	17.0	90.21	-2,449.6	-141.9	939.0	889.3	49.73	18.882		
9,000.0	7,174.0	7,263.9	7,197.3	37.9	17.0	90.29	-2,449.6	-141.9	870.6	819.2	51.38	16.945		
9,100.0	7,174.0	7,264.9	7,198.3	39.5	17.0	90.37	-2,449.6	-141.9	808.8	755.8	53.04	15.250		
9,200.0	7,174.0	7,265.8	7,199.2	41.1	17.0	90.45	-2,449.6	-141.9	755.2	700.5	54.70	13.806		
9,300.0	7,174.0	7,266.7	7,200.1	42.7	17.0	90.53	-2,449.6	-141.9	711.7	655.4	56.38	12.625		
9,400.0	7,174.0	7,267.6	7,201.1	44.4	17.0	90.61	-2,449.6	-141.8	680.3	622.2	58.05	11.718		
9,500.0	7,174.0	7,268.6	7,202.0	46.0	17.0	90.69	-2,449.6	-141.8	662.6	602.8	59.74	11.091		
9,569.0	7,174.0	7,269.2	7,202.6	47.2	17.0	90.75	-2,449.7	-141.8	659.0	598.1	60.91	10.819 CC, ES		
9,600.0	7,174.0	7,269.5	7,202.9	47.7	17.0	90.77	-2,449.7	-141.8	659.7	598.3	61.43	10.739		
9,700.0	7,174.0	7,270.4	7,203.8	49.3	17.0	90.85	-2,449.7	-141.8	671.9	608.7	63.12	10.643 SF		
9,800.0	7,174.0	7,271.3	7,204.7	51.0	17.0	90.93	-2,449.7	-141.8	698.3	633.5	64.82	10.772		
9,900.0	7,174.0	7,272.2	7,205.6	52.7	17.0	91.01	-2,449.7	-141.8	737.4	670.9	66.52	11.085		
10,000.0	7,174.0	7,273.1	7,206.6	54.4	17.0	91.09	-2,449.7	-141.8	787.4	719.2	68.23	11.540		
10,100.0	7,174.0	7,274.0	7,207.5	56.1	17.0	91.17	-2,449.7	-141.8	846.3	776.3	69.94	12.101		
10,200.0	7,174.0	7,274.9	7,208.4	57.8	17.0	91.25	-2,449.7	-141.7	912.3	840.7	71.65	12.734		
10,300.0	7,174.0	7,275.8	7,209.3	59.4	17.0	91.33	-2,449.7	-141.7	984.2	910.8	73.36	13.416		
10,400.0	7,174.0	7,276.7	7,210.2	61.1	17.0	91.41	-2,449.7	-141.7	1,060.5	985.5	75.07	14.127		
10,500.0	7,174.0	7,277.6	7,211.1	62.8	17.0	91.48	-2,449.7	-141.7	1,140.6	1,063.8	76.79	14.853		
10,600.0	7,174.0	7,278.5	7,212.0	64.5	17.0	91.56	-2,449.7	-141.7	1,223.6	1,145.1	78.51	15.585		

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 1F-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 1F-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 - 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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore	Centre	Between	Between	Total	Separation	Warning			
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Uncertainty	Factor				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	(ft)	(ft)	(ft)	(ft)	Axis					
11,000.0	7,174.0	7,296.3	7,234.0	71.4	19.8	90.00	-4,999.2	7.0	1,229.3	1,143.9	85.39	14.397				
11,100.0	7,174.0	7,296.3	7,234.0	73.1	19.8	90.00	-4,999.2	7.0	1,139.0	1,051.9	87.11	13.075				
11,200.0	7,174.0	7,296.3	7,234.0	74.8	19.8	90.00	-4,999.2	7.0	1,050.6	961.7	88.84	11.825				
11,300.0	7,174.0	7,296.3	7,234.0	76.5	19.8	90.00	-4,999.2	7.0	964.4	873.8	90.57	10.647				
11,400.0	7,174.0	7,296.3	7,234.0	78.3	19.8	90.00	-4,999.2	7.0	881.1	788.8	92.31	9.545				
11,500.0	7,174.0	7,296.3	7,234.0	80.0	19.8	90.00	-4,999.2	7.0	801.6	707.6	94.04	8.524				
11,600.0	7,174.0	7,296.3	7,234.0	81.7	19.8	90.00	-4,999.2	7.0	727.3	631.5	95.77	7.594				
11,700.0	7,174.0	7,296.3	7,234.0	83.4	19.8	90.00	-4,999.2	7.0	659.7	562.2	97.51	6.766				
11,701.9	7,174.0	7,296.3	7,234.0	83.5	19.8	90.00	-4,999.2	7.0	658.5	560.9	97.54	6.751	CC, ES, SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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 - Plan #2													Offset Site Error:	0.0 ft
Survey Program: 0-MWD													Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor		
11,000.0	7,174.0	7,299.5	7,234.0	71.4	19.9	90.00	-4,997.9	0.0	1,231.0	1,145.6	85.38	14.418		
11,100.0	7,174.0	7,299.5	7,234.0	73.1	19.9	90.00	-4,997.9	0.0	1,141.0	1,053.9	87.11	13.099		
11,200.0	7,174.0	7,299.5	7,234.0	74.8	19.9	90.00	-4,997.9	0.0	1,052.9	964.0	88.84	11.851		
11,300.0	7,174.0	7,299.5	7,234.0	76.5	19.9	90.00	-4,997.9	0.0	967.0	876.4	90.57	10.677		
11,400.0	7,174.0	7,299.5	7,234.0	78.3	19.9	90.00	-4,997.9	0.0	884.1	791.8	92.30	9.579		
11,500.0	7,174.0	7,299.5	7,234.0	80.0	19.9	90.00	-4,997.9	0.0	805.1	711.1	94.03	8.562		
11,600.0	7,174.0	7,299.5	7,234.0	81.7	19.9	90.00	-4,997.9	0.0	731.3	635.5	95.77	7.636		
11,700.0	7,174.0	7,299.5	7,234.0	83.4	19.9	90.00	-4,997.9	0.0	664.3	566.8	97.50	6.813		
11,701.9	7,174.0	7,299.5	7,234.0	83.5	19.9	90.00	-4,997.9	0.0	663.1	565.6	97.53	6.799 CC, ES, SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Devore 1F-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 1F-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		Total		Separation		Warning		
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Uncertainty Axis			
11,000.0	7,174.0	7,308.0	7,238.4	71.4	19.9	90.48	-4,961.5	-9.3	1,202.2	1,117.0	85.19	14.112		
11,100.0	7,174.0	7,307.3	7,237.7	73.1	19.9	90.40	-4,961.5	-9.3	1,113.1	1,026.2	86.92	12.807		
11,200.0	7,174.0	7,306.7	7,237.0	74.8	19.9	90.33	-4,961.5	-9.3	1,026.1	937.4	88.65	11.575		
11,300.0	7,174.0	7,306.0	7,236.4	76.5	19.9	90.26	-4,961.6	-9.3	941.6	851.2	90.38	10.419		
11,400.0	7,174.0	7,305.3	7,235.7	78.3	19.9	90.19	-4,961.6	-9.3	860.5	768.4	92.11	9.342		
11,500.0	7,174.0	7,304.7	7,235.1	80.0	19.9	90.12	-4,961.6	-9.2	783.8	689.9	93.84	8.352		
11,600.0	7,174.0	7,304.0	7,234.4	81.7	19.9	90.05	-4,961.6	-9.2	712.8	617.2	95.57	7.458		
11,700.0	7,174.0	7,303.4	7,233.8	83.4	19.9	89.98	-4,961.6	-9.2	649.6	552.3	97.31	6.675		
11,701.9	7,174.0	7,303.4	7,233.8	83.5	19.9	89.97	-4,961.6	-9.2	648.4	551.1	97.34	6.662 CC, ES, SF		

Anticollision Report

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

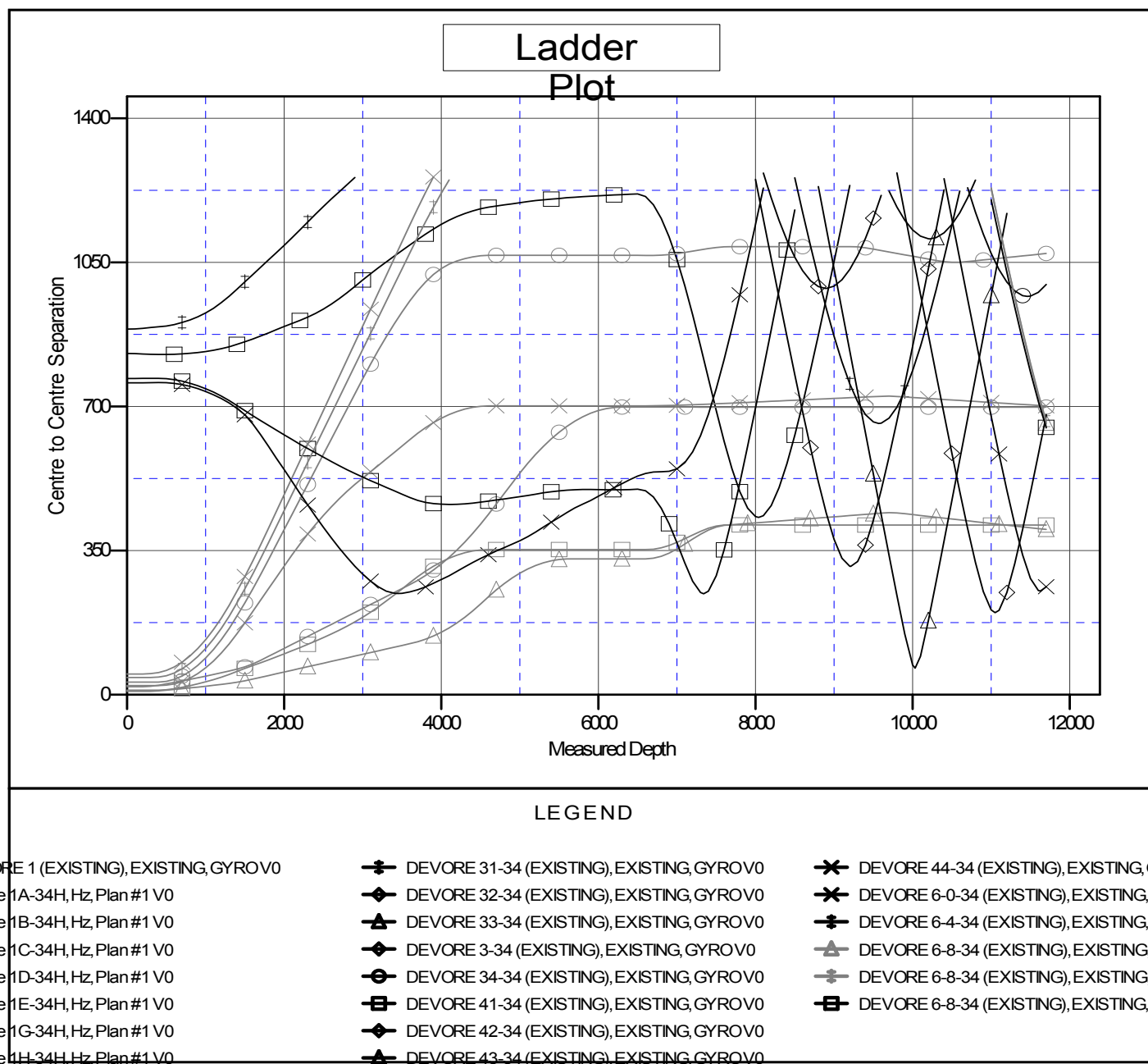
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Devore 1F-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