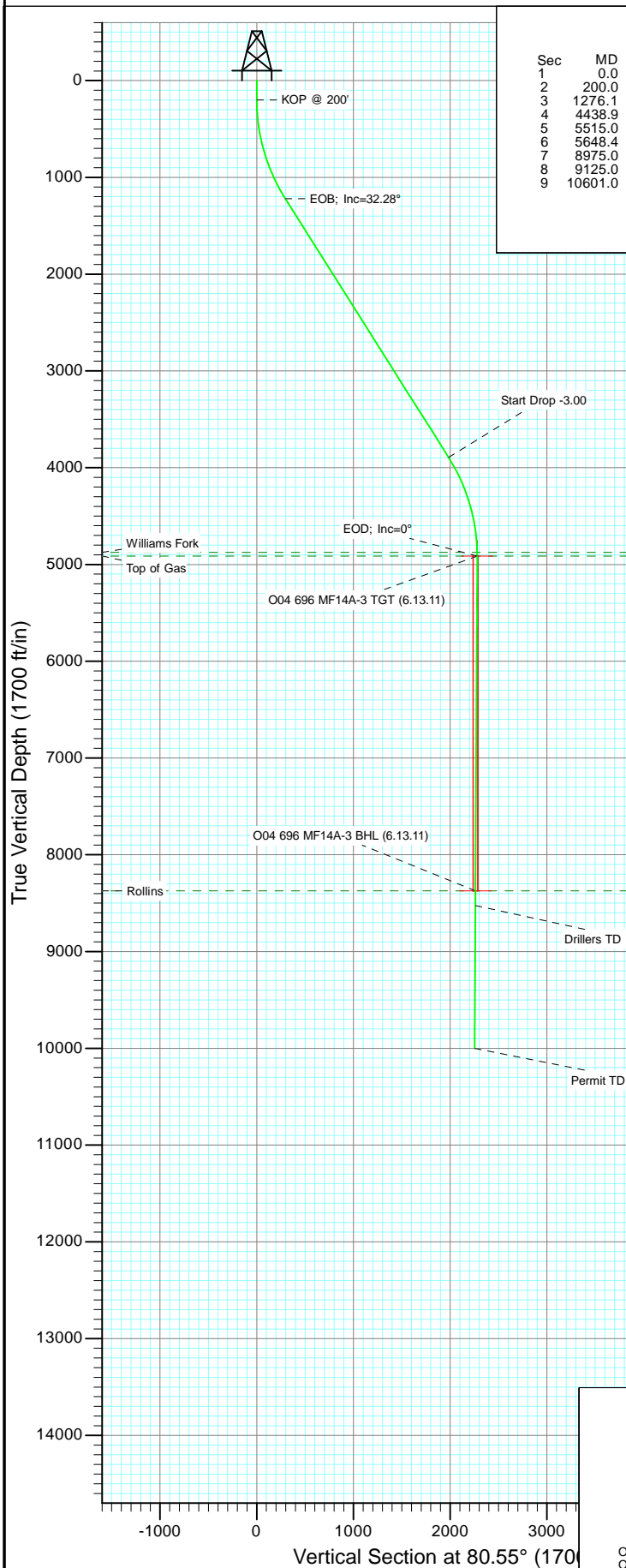
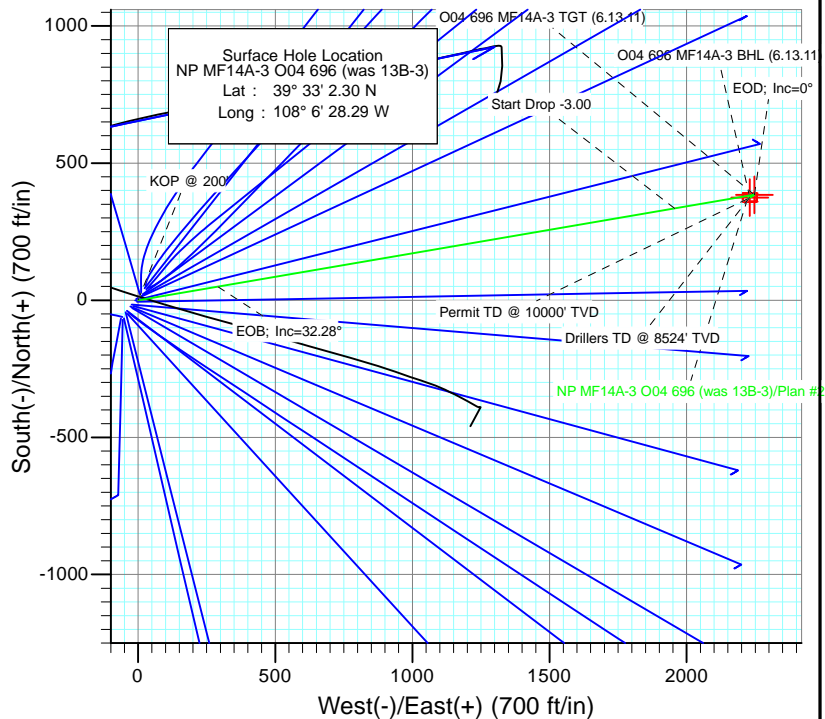




Project: North Piceance
Site: O04 696 (3rd)
Well: NP MF14A-3 O04 696 (was 13B-3)
Wellbore: DD
Design: Plan #2



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	1276.1	32.28	80.29	1220.0	49.8	291.0	3.00	80.29	295.2	O04 696 MF14A-3 TGT (6.13.11)
4	4438.9	32.28	80.29	3894.0	334.7	1956.0	0.00	0.00	1984.4	
5	5515.0	0.00	0.00	4914.0	384.5	2247.0	3.00	180.00	2279.6	O04 696 MF14A-3 BHL (6.13.11)
6	5648.4	0.33	239.52	5047.4	384.5	2246.7	0.25	239.52	2279.3	
7	8975.0	0.33	239.52	8374.0	374.5	2230.0	0.00	0.00	2261.2	
8	9125.0	0.33	239.52	8524.0	374.0	2229.2	0.00	0.00	2260.4	
9	10601.0	0.33	239.52	10000.0	369.7	2221.8	0.00	0.00	2252.4	



Azimuths to True North
Magnetic North: 10.54°

Magnetic Field
Strength: 52365.1nT
Dip Angle: 65.79°
Date: 6/17/2010
Model: IGRF2010

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4874.0	5475.0	Williams Fork
4914.0	5515.0	Top of Gas
8374.0	8975.0	Rollins

Plan #2 NP MF14A-3 O04 696 (was 13B-3) 95xxx; LR WELL @ 6044.0ft (Original Well Elev) North American Datum 1983 Well NP MF14A-3 O04 696 (was 13B-3), True North							
Type TD	Target No Target (Freehand)	Azimuth 80.55	Origin Type Slot	N/S 0.0	E/W 0.0	From TVD 0.0	
Name	TVD	+N/-S	+E/-W	Latitude	Longitude		
O04 696 MF14A-3 TGT (6.13.11)	4914.0	384.5	2247.0	39° 33' 6.10 N	108° 5' 59.60 W		
O04 696 MF14A-3 BHL (6.13.11)	8374.0	374.5	2230.0	39° 33' 6.00 N	108° 5' 59.82 W		

Planning Report

Database:	USA EDM 5000 US Multi Users DB	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site:	O04 696 (3rd)	North Reference:	True
Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Project	North Piceance		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	O04 696 (3rd)			
Site Position:		Northing:	1,635,941.08 ft	Latitude: 39° 33' 1.64 N
From:	Lat/Long	Easting:	2,264,673.43 ft	Longitude: 108° 6' 29.09 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence: -1.64 °

Well	NP MF14A-3 O04 696 (was 13B-3)			
Well Position	+N/-S	0.0 ft	Northing:	1,636,006.02 ft
	+E/-W	0.0 ft	Easting:	2,264,737.98 ft
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft
			Ground Level:	6,022.0 ft

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	6/17/2010	10.54	65.79	52,365

Design	Plan #2			
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	80.55

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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,276.1	32.28	80.29	1,220.0	49.8	291.0	3.00	3.00	0.00	80.29	
4,438.9	32.28	80.29	3,894.0	334.7	1,956.0	0.00	0.00	0.00	0.00	
5,515.0	0.00	0.00	4,914.0	384.5	2,247.0	3.00	-3.00	0.00	180.00	O04 696 MF14A-3 TC
5,648.4	0.33	239.52	5,047.4	384.3	2,246.7	0.25	0.25	-90.30	239.52	
8,975.0	0.33	239.52	8,374.0	374.5	2,230.0	0.00	0.00	0.00	0.00	O04 696 MF14A-3 B+
9,125.0	0.33	239.52	8,524.0	374.0	2,229.2	0.00	0.00	0.00	0.00	
10,601.0	0.33	239.52	10,000.0	369.7	2,221.8	0.00	0.00	0.00	0.00	

Planning Report

Database: USA EDM 5000 US Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: North Piceance
Site: O04 696 (3rd)
Well: NP MF14A-3 O04 696 (was 13B-3)
Wellbore: DD
Design: Plan #2

Local Co-ordinate Reference: Well NP MF14A-3 O04 696 (was 13B-3)
TVD Reference: WELL @ 6044.0ft (Original Well Elev)
MD Reference: WELL @ 6044.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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	
30.0	0.00	0.00	30.0	0.0	0.0	0.0	0.00	0.00	
60.0	0.00	0.00	60.0	0.0	0.0	0.0	0.00	0.00	
90.0	0.00	0.00	90.0	0.0	0.0	0.0	0.00	0.00	
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	
180.0	0.00	0.00	180.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	KOP @ 200'
210.0	0.30	80.29	210.0	0.0	0.0	0.0	3.00	3.00	
240.0	1.20	80.29	240.0	0.1	0.4	0.4	3.00	3.00	
270.0	2.10	80.29	270.0	0.2	1.3	1.3	3.00	3.00	
300.0	3.00	80.29	300.0	0.4	2.6	2.6	3.00	3.00	
330.0	3.90	80.29	329.9	0.7	4.4	4.4	3.00	3.00	
360.0	4.80	80.29	359.8	1.1	6.6	6.7	3.00	3.00	
390.0	5.70	80.29	389.7	1.6	9.3	9.4	3.00	3.00	
420.0	6.60	80.29	419.5	2.1	12.5	12.7	3.00	3.00	
450.0	7.50	80.29	449.3	2.8	16.1	16.3	3.00	3.00	
480.0	8.40	80.29	479.0	3.5	20.2	20.5	3.00	3.00	
510.0	9.30	80.29	508.6	4.2	24.7	25.1	3.00	3.00	
540.0	10.20	80.29	538.2	5.1	29.8	30.2	3.00	3.00	
570.0	11.10	80.29	567.7	6.0	35.2	35.7	3.00	3.00	
600.0	12.00	80.29	597.1	7.0	41.1	41.7	3.00	3.00	
630.0	12.90	80.29	626.4	8.1	47.5	48.2	3.00	3.00	
660.0	13.80	80.29	655.6	9.3	54.3	55.1	3.00	3.00	
690.0	14.70	80.29	684.6	10.5	61.6	62.5	3.00	3.00	
720.0	15.60	80.29	713.6	11.9	69.3	70.4	3.00	3.00	
750.0	16.50	80.29	742.4	13.3	77.5	78.6	3.00	3.00	
780.0	17.40	80.29	771.1	14.7	86.1	87.4	3.00	3.00	
810.0	18.30	80.29	799.7	16.3	95.2	96.6	3.00	3.00	
840.0	19.20	80.29	828.1	17.9	104.7	106.2	3.00	3.00	
870.0	20.10	80.29	856.3	19.6	114.7	116.3	3.00	3.00	
900.0	21.00	80.29	884.4	21.4	125.0	126.9	3.00	3.00	
930.0	21.90	80.29	912.4	23.2	135.8	137.8	3.00	3.00	
960.0	22.80	80.29	940.1	25.2	147.1	149.2	3.00	3.00	
990.0	23.70	80.29	967.7	27.2	158.8	161.1	3.00	3.00	
1,020.0	24.60	80.29	995.0	29.2	170.9	173.3	3.00	3.00	
1,050.0	25.50	80.29	1,022.2	31.4	183.4	186.0	3.00	3.00	
1,080.0	26.40	80.29	1,049.2	33.6	196.3	199.2	3.00	3.00	
1,110.0	27.30	80.29	1,076.0	35.9	209.7	212.7	3.00	3.00	
1,140.0	28.20	80.29	1,102.5	38.2	223.4	226.7	3.00	3.00	
1,170.0	29.10	80.29	1,128.8	40.7	237.6	241.1	3.00	3.00	
1,200.0	30.00	80.29	1,154.9	43.2	252.2	255.9	3.00	3.00	
1,230.0	30.90	80.29	1,180.8	45.7	267.2	271.1	3.00	3.00	
1,260.0	31.80	80.29	1,206.4	48.4	282.6	286.7	3.00	3.00	
1,276.1	32.28	80.29	1,220.0	49.8	291.0	295.2	3.00	3.00	EOB; Inc=32.28°
1,290.0	32.28	80.29	1,231.8	51.0	298.3	302.6	0.00	0.00	
1,320.0	32.28	80.29	1,257.2	53.7	314.1	318.7	0.00	0.00	
1,350.0	32.28	80.29	1,282.5	56.5	329.9	334.7	0.00	0.00	
1,380.0	32.28	80.29	1,307.9	59.2	345.7	350.7	0.00	0.00	
1,410.0	32.28	80.29	1,333.3	61.9	361.5	366.7	0.00	0.00	
1,440.0	32.28	80.29	1,358.6	64.6	377.3	382.8	0.00	0.00	
1,470.0	32.28	80.29	1,384.0	67.3	393.1	398.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 US Multi Users DB	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site:	O04 696 (3rd)	North Reference:	True
Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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
1,500.0	32.28	80.29	1,409.3	70.0	408.9	414.8	0.00	0.00	
1,530.0	32.28	80.29	1,434.7	72.7	424.7	430.8	0.00	0.00	
1,560.0	32.28	80.29	1,460.1	75.4	440.5	446.8	0.00	0.00	
1,590.0	32.28	80.29	1,485.4	78.1	456.2	462.9	0.00	0.00	
1,620.0	32.28	80.29	1,510.8	80.8	472.0	478.9	0.00	0.00	
1,650.0	32.28	80.29	1,536.2	83.5	487.8	494.9	0.00	0.00	
1,680.0	32.28	80.29	1,561.5	86.2	503.6	510.9	0.00	0.00	
1,710.0	32.28	80.29	1,586.9	88.9	519.4	527.0	0.00	0.00	
1,740.0	32.28	80.29	1,612.3	91.6	535.2	543.0	0.00	0.00	
1,770.0	32.28	80.29	1,637.6	94.3	551.0	559.0	0.00	0.00	
1,800.0	32.28	80.29	1,663.0	97.0	566.8	575.0	0.00	0.00	
1,830.0	32.28	80.29	1,688.3	99.7	582.6	591.1	0.00	0.00	
1,860.0	32.28	80.29	1,713.7	102.4	598.4	607.1	0.00	0.00	
1,890.0	32.28	80.29	1,739.1	105.1	614.2	623.1	0.00	0.00	
1,920.0	32.28	80.29	1,764.4	107.8	630.0	639.1	0.00	0.00	
1,950.0	32.28	80.29	1,789.8	110.5	645.8	655.1	0.00	0.00	
1,980.0	32.28	80.29	1,815.2	113.2	661.6	671.2	0.00	0.00	
2,010.0	32.28	80.29	1,840.5	115.9	677.4	687.2	0.00	0.00	
2,040.0	32.28	80.29	1,865.9	118.6	693.1	703.2	0.00	0.00	
2,070.0	32.28	80.29	1,891.2	121.3	708.9	719.2	0.00	0.00	
2,100.0	32.28	80.29	1,916.6	124.0	724.7	735.3	0.00	0.00	
2,130.0	32.28	80.29	1,942.0	126.7	740.5	751.3	0.00	0.00	
2,160.0	32.28	80.29	1,967.3	129.4	756.3	767.3	0.00	0.00	
2,190.0	32.28	80.29	1,992.7	132.1	772.1	783.3	0.00	0.00	
2,220.0	32.28	80.29	2,018.1	134.8	787.9	799.3	0.00	0.00	
2,250.0	32.28	80.29	2,043.4	137.5	803.7	815.4	0.00	0.00	
2,280.0	32.28	80.29	2,068.8	140.2	819.5	831.4	0.00	0.00	
2,310.0	32.28	80.29	2,094.1	142.9	835.3	847.4	0.00	0.00	
2,340.0	32.28	80.29	2,119.5	145.6	851.1	863.4	0.00	0.00	
2,370.0	32.28	80.29	2,144.9	148.3	866.9	879.5	0.00	0.00	
2,400.0	32.28	80.29	2,170.2	151.0	882.7	895.5	0.00	0.00	
2,430.0	32.28	80.29	2,195.6	153.7	898.5	911.5	0.00	0.00	
2,460.0	32.28	80.29	2,221.0	156.4	914.2	927.5	0.00	0.00	
2,490.0	32.28	80.29	2,246.3	159.1	930.0	943.6	0.00	0.00	

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
O04 696 MF14A-3 BHL	0.00	0.00	8,374.0	374.5	2,230.0	1,636,316.34	2,266,977.78	39° 33' 6.00 N	108° 5' 59.82 W
- plan misses target center by 6267.7ft at 2490.0ft MD (2246.3 TVD, 159.1 N, 930.0 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
O04 696 MF14A-3 TGT	0.00	0.00	4,914.0	384.5	2,247.0	1,636,325.86	2,266,995.09	39° 33' 6.10 N	108° 5' 59.60 W
- plan misses target center by 2983.6ft at 2490.0ft MD (2246.3 TVD, 159.1 N, 930.0 E)									
- Point									

Planning Report

Database: USA EDM 5000 US Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: North Piceance
Site: O04 696 (3rd)
Well: NP MF14A-3 O04 696 (was 13B-3)
Wellbore: DD
Design: Plan #2

Local Co-ordinate Reference: Well NP MF14A-3 O04 696 (was 13B-3)
TVD Reference: WELL @ 6044.0ft (Original Well Elev)
MD Reference: WELL @ 6044.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
2,500.0	32.28	80.29	2,254.8	160.0	935.3	948.9	0.00	0.00	
2,600.0	32.28	80.29	2,339.3	169.1	988.0	1,002.3	0.00	0.00	
2,700.0	32.28	80.29	2,423.9	178.1	1,040.6	1,055.7	0.00	0.00	
2,800.0	32.28	80.29	2,508.4	187.1	1,093.2	1,109.1	0.00	0.00	
2,900.0	32.28	80.29	2,592.9	196.1	1,145.9	1,162.5	0.00	0.00	
3,000.0	32.28	80.29	2,677.5	205.1	1,198.5	1,215.9	0.00	0.00	
3,100.0	32.28	80.29	2,762.0	214.1	1,251.2	1,269.3	0.00	0.00	
3,200.0	32.28	80.29	2,846.6	223.1	1,303.8	1,322.8	0.00	0.00	
3,300.0	32.28	80.29	2,931.1	232.1	1,356.5	1,376.2	0.00	0.00	
3,400.0	32.28	80.29	3,015.7	241.1	1,409.1	1,429.6	0.00	0.00	
3,500.0	32.28	80.29	3,100.2	250.1	1,461.7	1,483.0	0.00	0.00	
3,600.0	32.28	80.29	3,184.7	259.1	1,514.4	1,536.4	0.00	0.00	
3,700.0	32.28	80.29	3,269.3	268.1	1,567.0	1,589.8	0.00	0.00	
3,800.0	32.28	80.29	3,353.8	277.2	1,619.7	1,643.2	0.00	0.00	
3,900.0	32.28	80.29	3,438.4	286.2	1,672.3	1,696.6	0.00	0.00	
4,000.0	32.28	80.29	3,522.9	295.2	1,725.0	1,750.0	0.00	0.00	
4,100.0	32.28	80.29	3,607.5	304.2	1,777.6	1,803.4	0.00	0.00	
4,200.0	32.28	80.29	3,692.0	313.2	1,830.3	1,856.8	0.00	0.00	
4,300.0	32.28	80.29	3,776.5	322.2	1,882.9	1,910.2	0.00	0.00	
4,400.0	32.28	80.29	3,861.1	331.2	1,935.5	1,963.7	0.00	0.00	
4,438.9	32.28	80.29	3,894.0	334.7	1,956.0	1,984.4	0.00	0.00	Start Drop -3.00
4,500.0	30.45	80.29	3,946.1	340.1	1,987.4	2,016.2	3.00	-3.00	
4,600.0	27.45	80.29	4,033.6	348.2	2,035.1	2,064.6	3.00	-3.00	
4,700.0	24.45	80.29	4,123.5	355.6	2,078.2	2,108.4	3.00	-3.00	
4,800.0	21.45	80.29	4,215.6	362.2	2,116.6	2,147.4	3.00	-3.00	
4,900.0	18.45	80.29	4,309.6	367.9	2,150.3	2,181.5	3.00	-3.00	
5,000.0	15.45	80.29	4,405.3	372.9	2,179.0	2,210.6	3.00	-3.00	
5,100.0	12.45	80.29	4,502.3	376.9	2,202.7	2,234.7	3.00	-3.00	
5,200.0	9.45	80.29	4,600.5	380.1	2,221.5	2,253.7	3.00	-3.00	
5,300.0	6.45	80.29	4,699.5	382.5	2,235.1	2,267.6	3.00	-3.00	
5,400.0	3.45	80.29	4,799.1	383.9	2,243.6	2,276.2	3.00	-3.00	
5,475.0	1.20	80.29	4,874.0	384.4	2,246.6	2,279.2	3.00	-3.00	Williams Fork
5,500.0	0.45	80.29	4,899.0	384.5	2,246.9	2,279.6	3.00	-3.00	
5,515.0	0.00	0.00	4,914.0	384.5	2,247.0	2,279.6	3.00	-3.00	EOD; Inc=0° - Top of Gas - O04 696 MF14A-3 1
5,600.0	0.21	239.52	4,999.0	384.4	2,246.9	2,279.5	0.25	0.25	
5,648.4	0.33	239.52	5,047.4	384.3	2,246.7	2,279.3	0.25	0.25	
5,700.0	0.33	239.52	5,099.0	384.2	2,246.4	2,279.0	0.00	0.00	
5,800.0	0.33	239.52	5,199.0	383.9	2,245.9	2,278.4	0.00	0.00	
5,900.0	0.33	239.52	5,299.0	383.6	2,245.4	2,277.9	0.00	0.00	
6,000.0	0.33	239.52	5,399.0	383.3	2,244.9	2,277.4	0.00	0.00	
6,100.0	0.33	239.52	5,499.0	383.0	2,244.4	2,276.8	0.00	0.00	
6,200.0	0.33	239.52	5,599.0	382.7	2,243.9	2,276.3	0.00	0.00	
6,300.0	0.33	239.52	5,699.0	382.4	2,243.4	2,275.7	0.00	0.00	
6,400.0	0.33	239.52	5,799.0	382.1	2,242.9	2,275.2	0.00	0.00	
6,500.0	0.33	239.52	5,899.0	381.8	2,242.4	2,274.6	0.00	0.00	
6,600.0	0.33	239.52	5,999.0	381.5	2,241.9	2,274.1	0.00	0.00	
6,700.0	0.33	239.52	6,099.0	381.2	2,241.4	2,273.6	0.00	0.00	
6,800.0	0.33	239.52	6,199.0	380.9	2,240.9	2,273.0	0.00	0.00	
6,900.0	0.33	239.52	6,299.0	380.6	2,240.4	2,272.5	0.00	0.00	
7,000.0	0.33	239.52	6,399.0	380.3	2,239.9	2,271.9	0.00	0.00	
7,100.0	0.33	239.52	6,499.0	380.0	2,239.4	2,271.4	0.00	0.00	
7,200.0	0.33	239.52	6,599.0	379.7	2,238.9	2,270.8	0.00	0.00	

Planning Report

Database:	USA EDM 5000 US Multi Users DB	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site:	O04 696 (3rd)	North Reference:	True
Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

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
7,300.0	0.33	239.52	6,699.0	379.4	2,238.4	2,270.3	0.00	0.00	
7,400.0	0.33	239.52	6,799.0	379.1	2,237.9	2,269.8	0.00	0.00	
7,500.0	0.33	239.52	6,899.0	378.8	2,237.4	2,269.2	0.00	0.00	
7,600.0	0.33	239.52	6,999.0	378.5	2,236.9	2,268.7	0.00	0.00	
7,700.0	0.33	239.52	7,099.0	378.2	2,236.4	2,268.1	0.00	0.00	
7,800.0	0.33	239.52	7,199.0	377.9	2,235.9	2,267.6	0.00	0.00	
7,900.0	0.33	239.52	7,299.0	377.7	2,235.4	2,267.0	0.00	0.00	
8,000.0	0.33	239.52	7,399.0	377.4	2,234.9	2,266.5	0.00	0.00	
8,100.0	0.33	239.52	7,499.0	377.1	2,234.4	2,266.0	0.00	0.00	
8,200.0	0.33	239.52	7,599.0	376.8	2,233.9	2,265.4	0.00	0.00	
8,300.0	0.33	239.52	7,699.0	376.5	2,233.4	2,264.9	0.00	0.00	
8,400.0	0.33	239.52	7,799.0	376.2	2,232.9	2,264.3	0.00	0.00	
8,500.0	0.33	239.52	7,899.0	375.9	2,232.4	2,263.8	0.00	0.00	
8,600.0	0.33	239.52	7,999.0	375.6	2,231.9	2,263.2	0.00	0.00	
8,700.0	0.33	239.52	8,099.0	375.3	2,231.4	2,262.7	0.00	0.00	
8,800.0	0.33	239.52	8,199.0	375.0	2,230.9	2,262.1	0.00	0.00	
8,900.0	0.33	239.52	8,299.0	374.7	2,230.4	2,261.6	0.00	0.00	
8,975.0	0.33	239.52	8,374.0	374.5	2,230.0	2,261.2	0.00	0.00	Rollins - O04 696 MF14A-3 BHL (6.13.11)
9,000.0	0.33	239.52	8,399.0	374.4	2,229.8	2,261.1	0.00	0.00	
9,100.0	0.33	239.52	8,499.0	374.1	2,229.3	2,260.5	0.00	0.00	
9,125.0	0.33	239.52	8,524.0	374.0	2,229.2	2,260.4	0.00	0.00	Drillers TD @ 8524' TVD
9,200.0	0.33	239.52	8,599.0	373.8	2,228.8	2,260.0	0.00	0.00	
9,300.0	0.33	239.52	8,699.0	373.5	2,228.3	2,259.4	0.00	0.00	
9,400.0	0.33	239.52	8,799.0	373.2	2,227.8	2,258.9	0.00	0.00	
9,500.0	0.33	239.52	8,899.0	372.9	2,227.3	2,258.3	0.00	0.00	
9,600.0	0.33	239.52	8,999.0	372.6	2,226.8	2,257.8	0.00	0.00	
9,700.0	0.33	239.52	9,099.0	372.3	2,226.3	2,257.3	0.00	0.00	
9,800.0	0.33	239.52	9,199.0	372.0	2,225.8	2,256.7	0.00	0.00	
9,900.0	0.33	239.52	9,299.0	371.7	2,225.3	2,256.2	0.00	0.00	
10,000.0	0.33	239.52	9,399.0	371.5	2,224.8	2,255.6	0.00	0.00	
10,100.0	0.33	239.52	9,499.0	371.2	2,224.3	2,255.1	0.00	0.00	
10,200.0	0.33	239.52	9,599.0	370.9	2,223.8	2,254.5	0.00	0.00	
10,300.0	0.33	239.52	9,699.0	370.6	2,223.3	2,254.0	0.00	0.00	
10,400.0	0.33	239.52	9,799.0	370.3	2,222.8	2,253.5	0.00	0.00	
10,500.0	0.33	239.52	9,899.0	370.0	2,222.3	2,252.9	0.00	0.00	
10,600.0	0.33	239.52	9,999.0	369.7	2,221.8	2,252.4	0.00	0.00	
10,601.0	0.33	239.52	10,000.0	369.7	2,221.8	2,252.4	0.00	0.00	Permit TD @ 10000' TVD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
O04 696 MF14A-3 BHL - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	8,374.0	374.5	2,230.0	1,636,316.34	2,266,977.78	39° 33' 6.00 N	108° 5' 59.82 W
O04 696 MF14A-3 TGT - plan hits target center - Point	0.00	0.00	4,914.0	384.5	2,247.0	1,636,325.86	2,266,995.09	39° 33' 6.10 N	108° 5' 59.60 W

Planning Report

Database:	USA EDM 5000 US Multi Users DB	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site:	O04 696 (3rd)	North Reference:	True
Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #2		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,475.0	4,874.0	Williams Fork		0.00		
5,515.0	4,914.0	Top of Gas		0.00		
8,975.0	8,374.0	Rollins		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
200.0	200.0	0.0	0.0	KOP @ 200'	
1,276.1	1,220.0	49.8	291.0	EOB; Inc=32.28°	
4,438.9	3,894.0	334.7	1,956.0	Start Drop -3.00	
5,515.0	4,914.0	384.5	2,247.0	EOD; Inc=0°	
9,125.0	8,524.0	384.3	2,246.7	Drillers TD @ 8524' TVD	
10,601.0	10,000.0	374.5	2,230.0	Permit TD @ 10000' TVD	

EnCana Oil & Gas (USA) Inc

North Piceance

O04 696 (3rd)

NP MF14A-3 O04 696 (was 13B-3)

DD

Plan #2

Anticollision Report

15 June, 2011

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference	Plan #2		
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 100.0ft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma		

Survey Tool Program		Date	6/15/2011		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	10,601.0	Plan #2 (DD)	MWD	Geolink MWD	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary

Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
N04 696 Pad (NESW Sec4-T6S-R96W)						
NP MF16A N04 696 - DD - DD						Out of range
NP MF16A N04 696 - DD - Plan #1						Out of range
NP MF16A N04 696 - DD - Plan#2						Out of range
NP MF17A N04 696 - DD - DD						Out of range
NP MF17A N04 696 - DD - Plan #1						Out of range
NP MF17A N04 696 - DD - Plan #3						Out of range
O04 696 (3rd)						
NP MF01D-9 O04 696 (was 17C-4) - DD - Plan #2	200.0	200.0	63.6	63.0	102.386	CC, ES
NP MF01D-9 O04 696 (was 17C-4) - DD - Plan #2	500.0	493.6	90.9	89.2	51.437	SF
NP MF02A-9 O04 696 (was 18C-4) - DD - Plan #2	200.0	200.0	91.6	90.9	147.373	CC, ES
NP MF02A-9 O04 696 (was 18C-4) - DD - Plan #2	300.0	295.9	95.8	94.8	98.904	SF
NP MF06A-3 O04 696 (was 11C-3) - DD - Plan #2	200.0	200.0	29.4	28.8	47.371	CC, ES
NP MF06A-3 O04 696 (was 11C-3) - DD - Plan #2	500.0	492.8	47.9	46.1	26.169	SF
NP MF06B-3 O04 696 (was 15A-4) - DD - Plan #2	200.0	200.0	49.4	48.8	79.582	CC, ES
NP MF06B-3 O04 696 (was 15A-4) - DD - Plan #2	800.0	778.3	99.4	95.2	23.779	SF
NP MF06C-3 O04 696 (was 09C-4) - DD - Plan #2	200.0	200.0	57.0	56.4	91.796	CC, ES
NP MF06C-3 O04 696 (was 09C-4) - DD - Plan #2	700.0	682.3	94.1	91.0	30.268	SF
NP MF06E-3 O04 696 (was 11B-3) - DD - Plan #2	200.0	200.0	56.8	56.2	91.383	CC
NP MF06E-3 O04 696 (was 11B-3) - DD - Plan #2	300.0	297.5	57.1	56.1	58.713	ES
NP MF06E-3 O04 696 (was 11B-3) - DD - Plan #2	900.0	875.8	90.4	85.2	17.354	SF
NP MF08B-9 O04 696 (was 01B-9) - DD - Plan #2	200.0	200.0	83.7	83.0	134.634	CC, ES
NP MF08B-9 O04 696 (was 01B-9) - DD - Plan #2	400.0	393.7	97.8	96.4	71.728	SF
NP MF11A-3 O04 696 (was 12C-3) - DD - Plan #2	445.5	441.9	43.7	42.1	28.203	CC, ES
NP MF11A-3 O04 696 (was 12C-3) - DD - Plan #2	800.0	785.4	74.0	70.0	18.174	SF
NP MF11B-3 O04 696 (was 14A-3) - DD - Plan #2	200.0	200.0	28.2	27.5	45.306	CC, ES
NP MF11B-3 O04 696 (was 14A-3) - DD - Plan #2	1,000.0	982.2	91.7	84.7	13.047	SF
NP MF11D-3 O04 696 (was 14B-3) - DD - Plan #2	200.0	200.0	20.5	19.9	32.950	CC, ES
NP MF11D-3 O04 696 (was 14B-3) - DD - Plan #2	1,100.0	1,085.8	84.4	75.5	9.551	SF
NP MF11E-3 O04 696 (was 13A-3) - DD - Plan #2	200.0	200.0	8.1	7.4	12.962	CC, ES
NP MF11E-3 O04 696 (was 13A-3) - DD - Plan #2	1,200.0	1,197.3	74.2	63.3	6.760	SF
NP MF11G-3 O04 696 (was 14C-3) - DD - Plan #2	200.0	200.0	11.0	10.4	17.724	CC, ES
NP MF11G-3 O04 696 (was 14C-3) - DD - Plan #2	1,800.0	1,817.2	94.6	83.1	8.237	SF
NP MF14C-3 O04 696 (was 14D-3) - DD - Plan #2	200.0	200.0	7.7	7.1	12.356	CC
NP MF14C-3 O04 696 (was 14D-3) - DD - Plan #2	300.0	300.3	8.0	7.0	8.127	ES
NP MF14C-3 O04 696 (was 14D-3) - DD - Plan #2	1,200.0	1,200.9	44.7	33.7	4.068	SF
NP MF14D-3 O04 696 (was 19A-3) - DD - Plan #2	200.0	200.0	28.5	27.9	45.925	CC, ES
NP MF14D-3 O04 696 (was 19A-3) - DD - Plan #2	1,100.0	1,115.4	90.6	84.1	14.066	SF
NP MF14E-3 O04 696 (was 19B-3) - DD - Plan #2	200.0	200.0	27.4	26.7	44.029	CC, ES
NP MF14E-3 O04 696 (was 19B-3) - DD - Plan #2	1,000.0	998.3	94.6	87.4	12.992	SF
NP MF15A-4 O04 696 (was 11D-3) - DD - Plan #2	200.0	200.0	22.2	21.5	35.653	CC, ES
NP MF15A-4 O04 696 (was 11D-3) - DD - Plan #2	400.0	396.9	30.2	28.8	22.042	SF
NP MF15D-4 O04 696 (was 01B-9) - DD - Plan #2	200.0	200.0	83.9	83.3	135.088	CC, ES
NP MF15D-4 O04 696 (was 01B-9) - DD - Plan #2	400.0	397.8	93.5	92.2	70.289	SF
NP MF18B-4 O04 696 (was 01A-9) - DD - Plan #2	200.0	200.0	91.3	90.7	146.989	CC, ES
NP MF18B-4 O04 696 (was 01A-9) - DD - Plan #2	300.0	296.2	95.3	94.3	98.229	SF
NP MF19A-3 O04 696 (was 17B-4) - DD - Plan #2	200.0	200.0	36.6	35.9	58.842	CC, ES
NP MF19A-3 O04 696 (was 17B-4) - DD - Plan #2	800.0	802.7	84.5	80.4	20.856	SF
NP MF19C-3 O04 696 (was 20B-3) - DD - Plan #2	200.0	200.0	35.8	35.2	57.662	CC, ES
NP MF19C-3 O04 696 (was 20B-3) - DD - Plan #2	800.0	794.7	97.2	92.7	21.825	SF
NP MF19D-3 O04 696 (was 19C-3) - DD - Plan #2	200.0	200.0	56.0	55.4	90.146	CC, ES
NP MF19D-3 O04 696 (was 19C-3) - DD - Plan #2	600.0	599.6	90.0	87.8	41.560	SF
NP MF19E-3 O04 696 (was 19D-3) - DD - Plan #2	200.0	200.0	55.5	54.9	89.330	CC, ES

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 NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (ft)	Offset Measured Depth (ft)	Distance Between Centres (ft)	Distance Between Ellipses (ft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
O04 696 (3rd)						
NP MF19E-3 O04 696 (was 19D-3) - DD - Plan #2	600.0	597.5	86.8	84.2	33.717	SF
NP MF20F-3 O04 696 (was 20D-3) - DD - Plan #2	200.0	200.0	63.2	62.6	101.685	CC, ES
NP MF20F-3 O04 696 (was 20D-3) - DD - Plan #2	500.0	496.7	84.7	82.8	44.596	SF

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF01D-9 O04 696 (was 17C-4) - DD - Plan #2													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-134.43	-44.5	-45.4	63.6				
100.0	100.0	100.0	100.0	0.1	0.1	-134.43	-44.5	-45.4	63.6	63.3	0.27	233.650	
200.0	200.0	200.0	200.0	0.3	0.3	-134.43	-44.5	-45.4	63.6	63.0	0.62	102.386 CC, ES	
300.0	300.0	299.1	299.1	0.5	0.5	146.04	-45.1	-45.3	66.1	65.1	0.97	68.044	
400.0	399.6	396.9	396.8	0.7	0.7	145.83	-50.0	-44.0	75.1	73.8	1.34	55.938	
500.0	498.8	493.6	492.9	1.0	0.9	144.61	-59.6	-41.6	90.9	89.2	1.77	51.437 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													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 Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation	Warning			
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis		Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-136.82	-66.8	-62.7	91.6						
100.0	100.0	100.0	100.0	0.1	0.1	-136.82	-66.8	-62.7	91.6	91.3	0.27	336.314			
200.0	200.0	200.0	200.0	0.3	0.3	-136.82	-66.8	-62.7	91.6	90.9	0.62	147.373 CC, ES			
300.0	300.0	295.9	295.9	0.5	0.5	142.95	-69.1	-63.1	95.8	94.8	0.97	98.904 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF06A-3 O04 696 (was 11C-3) - DD - 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	
0.0	0.0	0.0	0.0	0.0	0.0	21.87	27.3	11.0	29.4				
100.0	100.0	100.0	100.0	0.1	0.1	21.87	27.3	11.0	29.4	29.2	0.27	108.102	
200.0	200.0	200.0	200.0	0.3	0.3	21.87	27.3	11.0	29.4	28.8	0.62	47.371 CC, ES	
300.0	300.0	298.5	298.4	0.5	0.5	-64.27	29.9	11.0	30.6	29.6	0.98	31.398	
400.0	399.6	396.3	396.0	0.7	0.7	-78.69	37.4	11.0	35.8	34.5	1.37	26.224	
500.0	498.8	492.8	491.7	1.0	1.0	-93.83	49.7	11.0	47.9	46.1	1.83	26.169 SF	
600.0	597.1	587.5	584.9	1.4	1.3	-104.72	66.5	11.0	67.8	65.4	2.39	28.353	
700.0	694.3	679.8	674.7	1.8	1.7	-111.49	87.3	11.0	95.0	92.0	3.06	31.087	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF06B-3 O04 696 (was 15A-4) - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	28.37	43.5	23.5	49.4					
100.0	100.0	100.0	100.0	0.1	0.1	28.37	43.5	23.5	49.4	49.2	0.27	181.611		
200.0	200.0	200.0	200.0	0.3	0.3	28.37	43.5	23.5	49.4	48.8	0.62	79.582 CC, ES		
300.0	300.0	297.5	297.4	0.5	0.5	-53.70	45.5	25.0	50.4	49.4	0.97	51.837		
400.0	399.6	394.8	394.4	0.7	0.7	-58.63	51.3	29.6	53.4	52.1	1.35	39.434		
500.0	498.8	491.7	490.5	1.0	1.0	-65.55	61.0	37.2	59.3	57.5	1.82	32.584		
600.0	597.1	588.0	585.3	1.4	1.3	-73.01	74.4	47.8	68.7	66.3	2.43	28.320		
700.0	694.3	683.6	678.4	1.8	1.7	-79.81	91.4	61.1	82.0	78.8	3.21	25.551		
800.0	790.2	778.3	769.5	2.4	2.2	-85.42	111.8	77.2	99.4	95.2	4.18	23.779 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													004 696 (3rd) - NP MF06C-3 004 696 (was 09C-4) - DD - Plan #2		Offset Site Error:		0.0 ft	
Survey Program: 0-MWD													Offset Well Error:		0.0 ft			
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
0.0	0.0	0.0	0.0	0.0	0.0	29.63	49.6	28.2	57.0									
100.0	100.0	100.0	100.0	0.1	0.1	29.63	49.6	28.2	57.0	56.8	0.27	209.482						
200.0	200.0	200.0	200.0	0.3	0.3	29.63	49.6	28.2	57.0	56.4	0.62	91.796 CC, ES						
300.0	300.0	297.4	297.3	0.5	0.5	-53.86	52.1	28.2	57.7	56.7	0.97	59.267						
400.0	399.6	394.2	393.9	0.7	0.7	-62.68	59.4	28.2	60.6	59.2	1.36	44.667						
500.0	498.8	490.6	489.6	1.0	0.9	-72.75	70.4	30.8	67.5	65.7	1.80	37.385						
600.0	597.1	586.7	584.4	1.4	1.3	-81.59	84.6	37.0	78.7	76.3	2.37	33.148						
700.0	694.3	682.3	677.9	1.8	1.6	-88.57	102.0	46.5	94.1	91.0	3.11	30.268 SF						

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		O04 696 (3rd) - NP MF06E-3 O04 696 (was 11B-3) - DD - Plan #2											Offset Site Error:		0.0 ft			
Survey Program:		0-MWD													Offset Well Error:		0.0 ft	
Reference		Offset		Semi Major Axis			Distance											
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning					
0.0	0.0	0.0	0.0	0.0	0.0	38.37	44.5	35.2	56.8									
100.0	100.0	100.0	100.0	0.1	0.1	38.37	44.5	35.2	56.8	56.5	0.27	208.541						
200.0	200.0	200.0	200.0	0.3	0.3	38.37	44.5	35.2	56.8	56.2	0.62	91.383	CC					
300.0	300.0	297.5	297.4	0.5	0.5	-42.39	45.4	37.6	57.1	56.1	0.97	58.713	ES					
400.0	399.6	394.9	394.6	0.7	0.7	-43.77	48.2	44.5	57.9	56.5	1.35	42.846						
500.0	498.8	492.1	491.0	1.0	1.0	-46.38	53.2	55.7	59.5	57.7	1.79	33.324						
600.0	597.1	588.8	586.2	1.4	1.3	-51.45	61.8	70.0	62.8	60.5	2.33	26.963						
700.0	694.3	685.1	680.2	1.8	1.7	-58.26	74.0	87.3	68.6	65.6	3.06	22.451						
800.0	790.2	780.8	772.4	2.4	2.2	-65.70	89.8	107.5	77.6	73.6	4.02	19.335						
900.0	884.4	875.8	862.5	3.0	2.8	-72.74	108.9	130.4	90.4	85.2	5.21	17.354	SF					

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF08B-9 O04 696 (was 01B-9) - DD - Plan #2													Offset Site Error: 0.0 ft
Survey Program: 0-MWD													Offset Well Error: 0.0 ft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)	Total Uncertainty Axis	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-141.83	-65.8	-51.7	83.7				
100.0	100.0	100.0	100.0	0.1	0.1	-141.83	-65.8	-51.7	83.7	83.4	0.27	307.241	
200.0	200.0	200.0	200.0	0.3	0.3	-141.83	-65.8	-51.7	83.7	83.0	0.62	134.634 CC, ES	
300.0	300.0	297.2	297.2	0.5	0.5	137.66	-68.2	-51.1	87.2	86.2	0.97	89.518	
400.0	399.6	393.7	393.4	0.7	0.7	137.09	-75.3	-49.5	97.8	96.4	1.36	71.728 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF11A-3 O04 696 (was 12C-3) - DD - Plan #2													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	37.75	38.4	29.8	48.6					
100.0	100.0	100.0	100.0	0.1	0.1	37.75	38.4	29.8	48.6	48.4	0.27	178.583		
200.0	200.0	200.0	200.0	0.3	0.3	37.75	38.4	29.8	48.6	48.0	0.62	78.256		
300.0	300.0	300.0	300.0	0.5	0.5	-44.75	38.4	29.8	46.7	45.8	0.97	47.966		
400.0	399.6	397.5	397.4	0.7	0.7	-51.59	40.4	31.4	44.0	42.7	1.35	32.643		
445.5	444.8	441.9	441.7	0.8	0.8	-56.21	42.5	33.1	43.7	42.1	1.55	28.203 CC, ES		
500.0	498.8	494.9	494.6	1.0	0.9	-62.69	46.1	36.2	44.2	42.5	1.80	24.613		
600.0	597.1	592.2	591.1	1.4	1.1	-75.64	55.5	44.1	49.0	46.6	2.39	20.503		
700.0	694.3	689.1	686.4	1.8	1.5	-87.16	68.7	55.1	59.0	55.8	3.15	18.719		
800.0	790.2	785.4	780.1	2.4	1.9	-95.69	85.4	69.2	74.0	70.0	4.07	18.174 SF		
900.0	884.4	880.9	872.0	3.0	2.4	-101.42	105.6	86.1	93.6	88.4	5.15	18.176		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF11B-3 O04 696 (was 14A-3) - DD - Plan #2													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	37.75	22.3	17.2	28.2					
100.0	100.0	100.0	100.0	0.1	0.1	37.75	22.3	17.2	28.2	27.9	0.27	103.390		
200.0	200.0	200.0	200.0	0.3	0.3	37.75	22.3	17.2	28.2	27.5	0.62	45.306 CC, ES		
300.0	300.0	298.6	298.5	0.5	0.5	-44.63	23.8	19.3	28.7	27.8	0.97	29.531		
400.0	399.6	397.1	396.7	0.7	0.7	-50.38	28.3	25.4	30.7	29.3	1.36	22.618		
500.0	498.8	495.4	494.3	1.0	1.0	-58.34	35.8	35.6	34.5	32.6	1.83	18.844		
600.0	597.1	593.5	590.8	1.4	1.3	-66.67	46.3	49.7	40.7	38.2	2.47	16.477		
700.0	694.3	691.3	685.9	1.8	1.8	-74.04	59.6	67.8	49.5	46.2	3.31	14.947		
800.0	790.2	788.7	779.5	2.4	2.3	-79.94	75.8	89.6	61.0	56.7	4.36	13.990		
900.0	884.4	885.7	871.1	3.0	2.9	-84.42	94.7	115.1	75.1	69.5	5.61	13.406		
1,000.0	976.8	982.2	960.5	3.8	3.6	-87.74	116.2	144.2	91.7	84.7	7.03	13.047 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF11D-3 O04 696 (was 14B-3) - DD - 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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation Factor		
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis		
0.0	0.0	0.0	0.0	0.0	0.0	37.75	16.2	12.5	20.5				
100.0	100.0	100.0	100.0	0.1	0.1	37.75	16.2	12.5	20.5	20.2	0.27	75.193	
200.0	200.0	200.0	200.0	0.3	0.3	37.75	16.2	12.5	20.5	19.9	0.62	32.950 CC, ES	
300.0	300.0	299.0	299.0	0.5	0.5	-44.65	17.5	14.8	21.0	20.0	0.97	21.512	
400.0	399.6	398.0	397.6	0.7	0.7	-50.39	21.3	21.4	22.6	21.2	1.36	16.557	
500.0	498.8	496.8	495.7	1.0	1.0	-58.18	27.6	32.5	25.6	23.8	1.85	13.865	
600.0	597.1	595.6	592.8	1.4	1.3	-66.18	36.5	47.9	30.6	28.0	2.51	12.180	
700.0	694.3	694.1	688.6	1.8	1.8	-73.15	47.8	67.7	37.5	34.1	3.38	11.097	
800.0	790.2	792.5	783.0	2.4	2.3	-78.68	61.6	91.6	46.4	41.9	4.45	10.418	
900.0	884.4	890.6	875.6	3.0	2.9	-82.87	77.7	119.6	57.2	51.5	5.72	9.997	
1,000.0	976.8	988.4	966.2	3.8	3.7	-85.98	96.0	151.7	69.9	62.7	7.18	9.730	
1,100.0	1,067.1	1,085.8	1,054.4	4.6	4.5	-88.28	116.6	187.5	84.4	75.5	8.83	9.551 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF11E-3 O04 696 (was 13A-3) - DD - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-51.08	5.1	-6.3	8.1				
100.0	100.0	100.0	100.0	0.1	0.1	-51.08	5.1	-6.3	8.1	7.8	0.27	29.579	
200.0	200.0	200.0	200.0	0.3	0.3	-51.08	5.1	-6.3	8.1	7.4	0.62	12.962 CC, ES	
300.0	300.0	300.2	300.1	0.5	0.5	-128.78	6.2	-3.9	8.6	7.7	0.98	8.784	
400.0	399.6	400.3	400.0	0.7	0.7	-122.77	9.5	3.3	10.5	9.0	1.41	7.421	
500.0	498.8	500.4	499.2	1.0	1.0	-116.43	15.0	15.1	13.6	11.7	1.96	6.952	
600.0	597.1	600.4	597.5	1.4	1.4	-111.33	22.6	31.7	18.2	15.6	2.68	6.800	
700.0	694.3	700.3	694.6	1.8	1.8	-107.62	32.5	52.9	24.3	20.7	3.59	6.763	
800.0	790.2	800.1	790.3	2.4	2.4	-104.98	44.4	78.6	31.7	27.0	4.68	6.764	
900.0	884.4	899.7	884.1	3.0	3.0	-103.05	58.3	108.7	40.4	34.4	5.96	6.772	
1,000.0	976.8	999.1	976.0	3.8	3.7	-101.62	74.3	143.2	50.4	43.0	7.44	6.777	
1,100.0	1,067.1	1,098.3	1,065.6	4.6	4.6	-100.50	92.3	181.9	61.7	52.6	9.11	6.773	
1,200.0	1,154.9	1,197.3	1,152.6	5.6	5.5	-99.60	112.1	224.7	74.2	63.3	10.98	6.760 SF	
1,300.0	1,240.3	1,296.4	1,238.3	6.6	6.5	-100.35	132.9	269.7	87.8	74.9	12.93	6.793	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF11G-3 O04 696 (was 14C-3) - DD - Plan #2												Offset Site Error:	0.0 ft
Survey Program: 0-MWD												Offset Well Error:	0.0 ft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Total Uncertainty Axis	Separation Factor	Warning
Measured Depth (ft)	Vertical Depth (ft)	Measured Depth (ft)	Vertical Depth (ft)	Reference (ft)	Offset (ft)		+N/-S (ft)	+E/-W (ft)	Between Centres (ft)	Between Ellipses (ft)			
0.0	0.0	0.0	0.0	0.0	0.0	-95.27	-1.0	-11.0	11.0				
100.0	100.0	100.0	100.0	0.1	0.1	-95.27	-1.0	-11.0	11.0	10.7	0.27	40.447	
200.0	200.0	200.0	200.0	0.3	0.3	-95.27	-1.0	-11.0	11.0	10.4	0.62	17.724 CC, ES	
300.0	300.0	300.0	300.0	0.5	0.5	-176.41	-1.0	-11.0	13.6	12.7	0.97	14.051	
400.0	399.6	400.7	400.6	0.7	0.7	-176.79	-0.4	-8.4	18.9	17.5	1.32	14.311	
500.0	498.8	501.7	501.3	1.0	0.9	-176.04	1.6	-0.6	24.1	22.4	1.66	14.463	
600.0	597.1	602.9	601.6	1.4	1.2	-174.76	4.8	12.3	29.3	27.3	2.01	14.540	
700.0	694.3	704.4	701.4	1.8	1.5	-173.18	9.4	30.4	34.5	32.1	2.37	14.535	
800.0	790.2	806.2	800.3	2.4	2.0	-171.42	15.2	53.7	39.7	37.0	2.76	14.415	
900.0	884.4	908.3	898.1	3.0	2.5	-169.54	22.3	82.2	45.0	41.8	3.18	14.137	
1,000.0	976.8	1,010.6	994.3	3.8	3.2	-167.58	30.8	115.8	50.2	46.5	3.67	13.663	
1,100.0	1,067.1	1,113.1	1,088.8	4.6	4.0	-165.57	40.4	154.4	55.5	51.2	4.27	12.983	
1,200.0	1,154.9	1,215.9	1,181.2	5.6	4.8	-163.52	51.4	198.0	60.8	55.8	5.01	12.124	
1,300.0	1,240.3	1,318.0	1,270.6	6.6	5.8	-161.50	63.4	245.9	66.2	60.3	5.92	11.182	
1,400.0	1,324.8	1,417.9	1,357.3	7.7	6.8	-159.81	75.4	293.9	71.8	64.8	6.93	10.360	
1,500.0	1,409.3	1,517.7	1,444.0	8.7	7.7	-158.37	87.4	341.9	77.4	69.4	8.00	9.674	
1,600.0	1,493.9	1,617.5	1,530.7	9.8	8.7	-157.13	99.4	389.9	83.1	74.0	9.13	9.106	
1,700.0	1,578.4	1,717.3	1,617.4	10.8	9.6	-156.05	111.5	437.9	88.8	78.5	10.29	8.634	
1,800.0	1,663.0	1,817.2	1,704.1	11.9	10.6	-155.09	123.5	485.9	94.6	83.1	11.48	8.237 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF14C-3 O04 696 (was 14D-3) - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-142.25	-6.1	-4.7	7.7					
100.0	100.0	100.0	100.0	0.1	0.1	-142.25	-6.1	-4.7	7.7	7.4	0.27	28.197		
200.0	200.0	200.0	200.0	0.3	0.3	-142.25	-6.1	-4.7	7.7	7.1	0.62	12.356	CC	
300.0	300.0	300.3	300.2	0.5	0.5	135.46	-6.0	-2.1	8.0	7.0	0.98	8.127	ES	
400.0	399.6	400.5	400.1	0.7	0.7	130.29	-5.9	5.8	8.9	7.5	1.39	6.381		
500.0	498.8	500.7	499.5	1.0	1.0	123.77	-5.6	18.9	10.5	8.6	1.92	5.474		
600.0	597.1	600.9	598.0	1.4	1.4	117.54	-5.3	37.2	13.0	10.4	2.63	4.935		
700.0	694.3	701.1	695.3	1.8	1.8	112.35	-4.9	60.6	16.3	12.7	3.54	4.600		
800.0	790.2	801.2	791.3	2.4	2.4	108.31	-4.4	89.1	20.4	15.7	4.65	4.387		
900.0	884.4	901.2	885.6	3.0	3.0	105.23	-3.8	122.6	25.3	19.3	5.96	4.247		
1,000.0	976.8	1,001.2	977.9	3.8	3.8	102.88	-3.1	160.9	31.0	23.5	7.47	4.150		
1,100.0	1,067.1	1,101.1	1,068.0	4.6	4.6	101.06	-2.3	203.9	37.4	28.2	9.18	4.077		
1,200.0	1,154.9	1,200.9	1,156.4	5.6	5.5	101.69	-1.4	250.1	44.7	33.7	10.98	4.068	SF	
1,300.0	1,240.3	1,300.4	1,244.6	6.6	6.4	107.35	-0.6	296.4	53.2	40.5	12.66	4.203		
1,400.0	1,324.8	1,399.8	1,332.6	7.7	7.3	112.84	0.2	342.5	62.7	48.5	14.17	4.426		
1,500.0	1,409.3	1,499.1	1,420.6	8.7	8.2	116.86	1.1	388.7	72.6	57.0	15.61	4.653		
1,600.0	1,493.9	1,598.5	1,508.6	9.8	9.1	119.90	1.9	434.8	82.8	65.8	17.02	4.868		
1,700.0	1,578.4	1,697.9	1,596.6	10.8	10.0	122.27	2.8	481.0	93.2	74.8	18.40	5.066		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Total Uncertainty	Separation			
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-124.56	-16.2	-23.5	28.5						
100.0	100.0	100.0	100.0	0.1	0.1	-124.56	-16.2	-23.5	28.5	28.3	0.27	104.804			
200.0	200.0	200.0	200.0	0.3	0.3	-124.56	-16.2	-23.5	28.5	27.9	0.62	45.925	CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	157.16	-16.2	-23.5	30.9	30.0	0.97	31.855			
400.0	399.6	401.2	401.2	0.7	0.7	159.42	-16.4	-20.8	36.1	34.8	1.33	27.180			
500.0	498.8	502.8	502.4	1.0	0.9	159.41	-17.1	-12.8	41.8	40.1	1.70	24.550			
600.0	597.1	604.5	603.2	1.4	1.2	157.92	-18.2	0.6	48.1	46.0	2.12	22.653			
700.0	694.3	706.4	703.4	1.8	1.5	155.49	-19.8	19.4	55.0	52.4	2.63	20.931			
800.0	790.2	808.5	802.5	2.4	2.0	152.51	-21.8	43.6	62.6	59.3	3.27	19.166			
900.0	884.4	910.7	900.4	3.0	2.5	149.24	-24.2	73.0	71.0	66.9	4.09	17.361			
1,000.0	976.8	1,013.0	996.6	3.8	3.2	145.86	-27.1	107.6	80.3	75.2	5.14	15.627			
1,100.0	1,067.1	1,115.4	1,090.8	4.6	4.0	142.50	-30.4	147.3	90.6	84.1	6.44	14.066	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF14E-3 O04 696 (was 19B-3) - DD - 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			
0.0	0.0	0.0	0.0	0.0	0.0	-140.96	-21.2	-17.2	27.4						
100.0	100.0	100.0	100.0	0.1	0.1	-140.96	-21.2	-17.2	27.4	27.1	0.27	100.477			
200.0	200.0	200.0	200.0	0.3	0.3	-140.96	-21.2	-17.2	27.4	26.7	0.62	44.029	CC, ES		
300.0	300.0	300.6	300.5	0.5	0.5	137.34	-21.9	-14.7	28.3	27.3	0.98	28.774			
400.0	399.6	401.1	400.7	0.7	0.7	133.62	-24.0	-7.0	31.1	29.7	1.40	22.216			
500.0	498.8	501.4	500.1	1.0	1.0	128.75	-27.5	5.7	36.0	34.1	1.93	18.655			
600.0	597.1	601.5	598.5	1.4	1.4	123.82	-32.3	23.3	43.2	40.6	2.62	16.461			
700.0	694.3	701.3	695.6	1.8	1.8	119.46	-38.4	45.9	52.7	49.2	3.50	15.037			
800.0	790.2	800.7	790.9	2.4	2.4	115.84	-45.8	73.2	64.4	59.9	4.57	14.093			
900.0	884.4	899.7	884.2	3.0	3.0	112.93	-54.5	105.1	78.5	72.6	5.83	13.449			
1,000.0	976.8	998.3	975.2	3.8	3.8	110.57	-64.4	141.4	94.6	87.4	7.28	12.992	SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design		O04 696 (3rd) - NP MF15A-4 O04 696 (was 11D-3) - DD - 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			
0.0	0.0	0.0	0.0	0.0	0.0	16.43	21.2	6.3	22.2						
100.0	100.0	100.0	100.0	0.1	0.1	16.43	21.2	6.3	22.2	21.9	0.27	81.362			
200.0	200.0	200.0	200.0	0.3	0.3	16.43	21.2	6.3	22.2	21.5	0.62	35.653 CC, ES			
300.0	300.0	298.9	298.8	0.5	0.5	-72.89	23.7	5.6	23.5	22.5	0.98	24.019			
400.0	399.6	396.9	396.5	0.7	0.7	-92.88	31.0	3.4	30.2	28.8	1.37	22.042 SF			
500.0	498.8	493.1	492.0	1.0	1.0	-109.58	42.8	0.0	45.7	43.9	1.81	25.247			
600.0	597.1	586.9	584.3	1.4	1.3	-119.27	58.8	-4.6	70.2	67.9	2.32	30.265			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation				
Depth (ft)	Depth (ft)	Depth (ft)	Depth (ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	Centres (ft)	Ellipses (ft)	Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-136.32	-60.7	-58.0	83.9						
100.0	100.0	100.0	100.0	0.1	0.1	-136.32	-60.7	-58.0	83.9	83.7	0.27	308.278			
200.0	200.0	200.0	200.0	0.3	0.3	-136.32	-60.7	-58.0	83.9	83.3	0.62	135,088 CC, ES			
300.0	300.0	300.0	300.0	0.5	0.5	144.39	-60.7	-58.0	86.1	85.1	0.97	88.463			
400.0	399.6	397.8	397.8	0.7	0.7	147.88	-60.3	-59.6	93.5	92.2	1.33	70.289 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.0 ft
Survey Program: 0-MWD													Offset Well Error:		0.0 ft
Reference		Offset		Semi Major Axis			Distance						Warning		
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Total Uncertainty	Separation				
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	+N/-S (ft)	+E/-W (ft)	(ft)	(ft)	Axis	Factor			
0.0	0.0	0.0	0.0	0.0	0.0	-141.87	-71.8	-56.4	91.3						
100.0	100.0	100.0	100.0	0.1	0.1	-141.87	-71.8	-56.4	91.3	91.1	0.27	335.437			
200.0	200.0	200.0	200.0	0.3	0.3	-141.87	-71.8	-56.4	91.3	90.7	0.62	146.989 CC, ES			
300.0	300.0	296.2	296.1	0.5	0.5	137.91	-74.3	-56.5	95.3	94.3	0.97	98.229 SF			

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF19A-3 O04 696 (was 17B-4) - DD - 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 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	-129.53	-23.3	-28.2	36.6					
100.0	100.0	100.0	100.0	0.1	0.1	-129.53	-23.3	-28.2	36.6	36.3	0.27	134.281		
200.0	200.0	200.0	200.0	0.3	0.3	-129.53	-23.3	-28.2	36.6	35.9	0.62	58.842	CC, ES	
300.0	300.0	300.4	300.4	0.5	0.5	151.22	-23.5	-27.6	38.5	37.6	0.97	39.600		
400.0	399.6	401.4	401.2	0.7	0.7	150.00	-25.6	-22.7	42.9	41.5	1.35	31.792		
500.0	498.8	502.2	501.4	1.0	0.9	146.59	-29.7	-12.9	49.4	47.6	1.79	27.548		
600.0	597.1	602.7	600.7	1.4	1.2	142.11	-35.9	1.7	58.4	56.0	2.36	24.694		
700.0	694.3	703.0	698.7	1.8	1.6	137.42	-44.1	21.1	70.0	66.9	3.11	22.528		
800.0	790.2	802.7	795.0	2.4	2.1	133.04	-54.1	45.0	84.5	80.4	4.05	20.856	SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design													004 696 (3rd) - NP MF19C-3 004 696 (was 20B-3) - DD - 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 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	-142.25	-28.3	-21.9	35.8								
100.0	100.0	100.0	100.0	0.1	0.1	-142.25	-28.3	-21.9	35.8	35.6	0.27	131.588					
200.0	200.0	200.0	200.0	0.3	0.3	-142.25	-28.3	-21.9	35.8	35.2	0.62	57.662	CC, ES				
300.0	300.0	300.2	300.2	0.5	0.5	136.15	-29.7	-19.7	37.4	36.4	0.98	38.077					
400.0	399.6	400.2	399.9	0.7	0.7	132.82	-33.6	-12.9	42.3	40.9	1.40	30.168					
500.0	498.8	499.9	498.6	1.0	1.0	128.70	-40.2	-1.7	50.7	48.8	1.93	26.236					
600.0	597.1	598.9	596.0	1.4	1.4	124.76	-49.3	13.9	62.6	60.0	2.61	24.021					
700.0	694.3	697.2	691.6	1.8	1.8	121.41	-60.9	33.6	78.2	74.7	3.45	22.678					
800.0	790.2	794.7	785.1	2.4	2.3	118.69	-74.8	57.3	97.2	92.7	4.45	21.825	SF				

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF19D-3 O04 696 (was 19C-3) - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-133.35	-38.4	-40.7	56.0					
100.0	100.0	100.0	100.0	0.1	0.1	-133.35	-38.4	-40.7	56.0	55.7	0.27	205.718		
200.0	200.0	200.0	200.0	0.3	0.3	-133.35	-38.4	-40.7	56.0	55.4	0.62	90.146 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	147.75	-38.4	-40.7	58.2	57.2	0.97	59.872		
400.0	399.6	399.9	399.9	0.7	0.7	150.79	-38.9	-40.3	64.9	63.6	1.33	48.776		
500.0	498.8	499.9	499.7	1.0	0.8	151.56	-42.5	-36.4	75.6	73.8	1.72	44.042		
600.0	597.1	599.6	598.9	1.4	1.1	150.32	-49.5	-28.8	90.0	87.8	2.17	41.560 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF19E-3 O04 696 (was 19D-3) - DD - 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		
0.0	0.0	0.0	0.0	0.0	0.0	-141.62	-43.5	-34.5	55.5					
100.0	100.0	100.0	100.0	0.1	0.1	-141.62	-43.5	-34.5	55.5	55.2	0.27	203.855		
200.0	200.0	200.0	200.0	0.3	0.3	-141.62	-43.5	-34.5	55.5	54.9	0.62	89.330 CC, ES		
300.0	300.0	300.0	300.0	0.5	0.5	137.19	-45.1	-32.4	57.4	56.4	0.98	58.428		
400.0	399.6	399.8	399.4	0.7	0.7	134.79	-49.8	-26.2	63.2	61.8	1.40	45.133		
500.0	498.8	499.0	497.8	1.0	1.0	131.63	-57.6	-15.9	72.9	71.0	1.92	38.008		
600.0	597.1	597.5	594.6	1.4	1.4	128.37	-68.5	-1.7	86.8	84.2	2.57	33.717 SF		

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Offset Design O04 696 (3rd) - NP MF20F-3 O04 696 (was 20D-3) - DD - 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	
0.0	0.0	0.0	0.0	0.0	0.0	-141.69	-49.6	-39.2	63.2				
100.0	100.0	100.0	100.0	0.1	0.1	-141.69	-49.6	-39.2	63.2	62.9	0.27	232.050	
200.0	200.0	200.0	200.0	0.3	0.3	-141.69	-49.6	-39.2	63.2	62.6	0.62	101.685 CC, ES	
300.0	300.0	299.4	299.4	0.5	0.5	137.26	-51.5	-37.4	65.6	64.6	0.98	66.818	
400.0	399.6	398.4	398.1	0.7	0.7	135.27	-57.2	-32.2	72.7	71.3	1.39	52.168	
500.0	498.8	496.7	495.5	1.0	1.0	132.69	-66.6	-23.7	84.7	82.8	1.90	44.596 SF	

Anticollision Report

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well NP MF14A-3 O04 696 (was 13B-3)
Project:	North Piceance	TVD Reference:	WELL @ 6044.0ft (Original Well Elev)
Reference Site:	O04 696 (3rd)	MD Reference:	WELL @ 6044.0ft (Original Well Elev)
Site Error:	0.0ft	North Reference:	True
Reference Well:	NP MF14A-3 O04 696 (was 13B-3)	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0ft	Output errors are at	2.00 sigma
Reference Wellbore	DD	Database:	USA EDM 5000 US Multi Users DB
Reference Design:	Plan #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to WELL @ 6044.0ft (Original Well Elev)

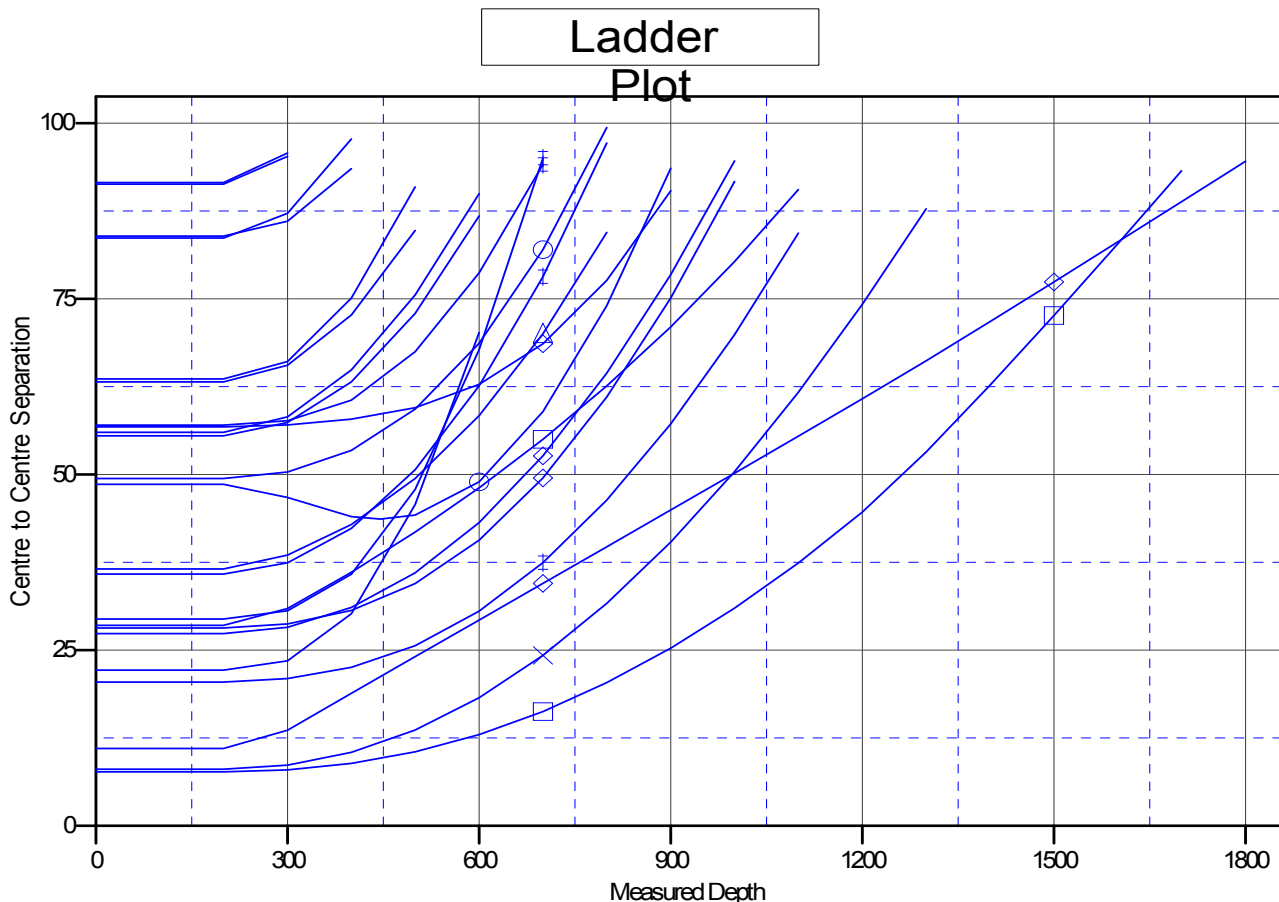
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.00 W °

Coordinates are relative to: NP MF14A-3 O04 696 (was 13B-3)

Coordinate System is US State Plane 1983, Colorado Central Zone

Grid Convergence at Surface is: -1.64°



LEGEND

- NP MF01D-9 O04 696 (was 17C-4), DD, Plan #2 V0
- NP MF02A-9 O04 696 (was 18C-4), DD, Plan #2 V0
- NP MF06A-3 O04 696 (was 11C-3), DD, Plan #2 V0
- NP MF06B-3 O04 696 (was 15A-4), DD, Plan #2 V0
- NP MF06C-3 O04 696 (was 09C-4), DD, Plan #2 V0
- NP MF06E-3 O04 696 (was 11B-3), DD, Plan #2 V0
- NP MF08B-9 O04 696 (was 01B-9), DD, Plan #2 V0
- NP MF11A-3 O04 696 (was 12C-3), DD, Plan #2 V0
- NP MF11B-3 O04 696 (was 14A-3), DD, Plan #2 V0
- NP MF11D-3 O04 696 (was 14B-3), DD, Plan #2 V0
- NP MF11E-3 O04 696 (was 13A-3), DD, Plan #2 V0
- NP MF11G-3 O04 696 (was 14C-3), DD, Plan #2 V0
- NP MF14C-3 O04 696 (was 14D-3), DD, Plan #2 V0
- NP MF14D-3 O04 696 (was 19A-3), DD, Plan #2 V0
- NP MF14E-3 O04 696 (was 19B-3), DD, Plan #2 V0
- NP MF15A-4 O04 696 (was 11D-3), DD, Plan #2 V0
- NP MF15D-4 O04 696 (was 01B-9), DD, Plan #2 V0
- NP MF18B-4 O04 696 (was 01A-9), DD, Plan #2 V0
- NP MF19A-3 O04 696 (was 17B-4), DD, Plan #2 V0
- NP MF19C-3 O04 696 (was 20B-3), DD, Plan #2 V0
- NP MF19D-3 O04 696 (was 19C-3), DD, Plan #2 V0
- NP MF19E-3 O04 696 (was 19D-3), DD, Plan #2 V0
- NP MF20F-3 O04 696 (was 20D-3), DD, Plan #2 V0

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