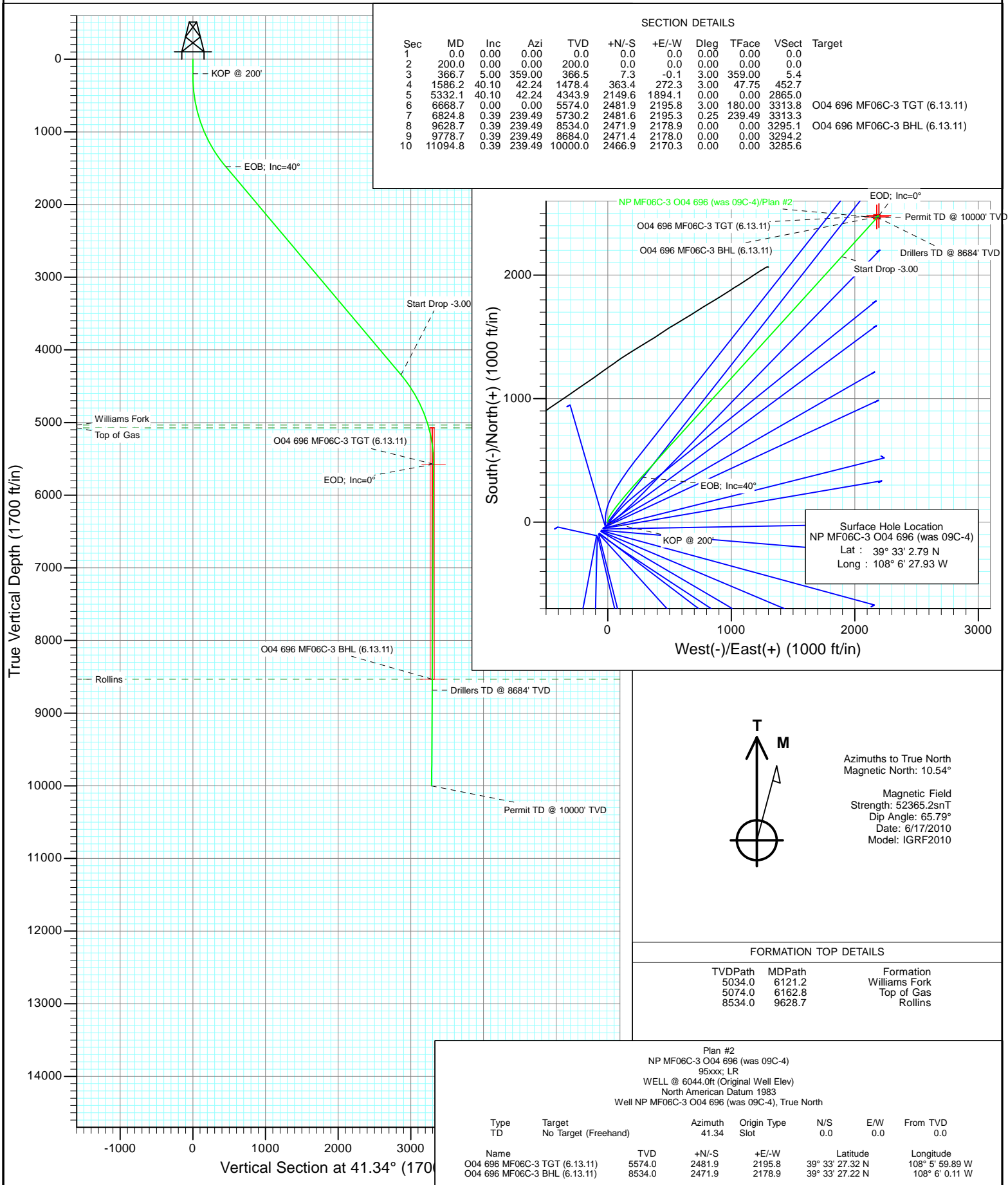




Project: North Piceance  
Site: O04 696 (3rd)  
Well: NP MF06C-3 O04 696 (was 09C-4)  
Wellbore: DD  
Design: Plan #2



## Planning Report

<b>Database:</b>	USA EDM 5000 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well NP MF06C-3 O04 696 (was 09C-4)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Site:</b>	O04 696 (3rd)	<b>North Reference:</b>	True
<b>Well:</b>	NP MF06C-3 O04 696 (was 09C-4)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

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

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

<b>Well</b>	NP MF06C-3 O04 696 (was 09C-4)			
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,636,054.76 ft
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,264,767.59 ft
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft
			<b>Ground Level:</b>	6,022.0 ft

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

<b>Design</b>	Plan #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	41.34

<b>Plan Sections</b>										
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	
366.7	5.00	359.00	366.5	7.3	-0.1	3.00	3.00	0.00	359.00	
1,586.2	40.10	42.24	1,478.4	363.4	272.3	3.00	2.88	3.55	47.75	
5,332.1	40.10	42.24	4,343.9	2,149.6	1,894.1	0.00	0.00	0.00	0.00	
6,668.7	0.00	0.00	5,574.0	2,481.9	2,195.8	3.00	-3.00	0.00	180.00	O04 696 MF06C-3 TC
6,824.8	0.39	239.49	5,730.2	2,481.6	2,195.3	0.25	0.25	-77.16	239.49	
9,628.7	0.39	239.49	8,534.0	2,471.9	2,178.9	0.00	0.00	0.00	0.00	O04 696 MF06C-3 B+
9,778.7	0.39	239.49	8,684.0	2,471.4	2,178.0	0.00	0.00	0.00	0.00	
11,094.8	0.39	239.49	10,000.0	2,466.9	2,170.3	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 MF06C-3 O04 696 (was 09C-4)  
**Wellbore:** DD  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well NP MF06C-3 O04 696 (was 09C-4)  
**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	359.00	210.0	0.0	0.0	0.0	3.00	3.00	
240.0	1.20	359.00	240.0	0.4	0.0	0.3	3.00	3.00	
270.0	2.10	359.00	270.0	1.3	0.0	0.9	3.00	3.00	
300.0	3.00	359.00	300.0	2.6	0.0	1.9	3.00	3.00	
330.0	3.90	359.00	329.9	4.4	-0.1	3.3	3.00	3.00	
360.0	4.80	359.00	359.8	6.7	-0.1	5.0	3.00	3.00	
366.7	5.00	359.00	366.5	7.3	-0.1	5.4	3.00	3.00	
390.0	5.50	4.42	389.7	9.4	-0.1	7.0	3.00	2.12	
420.0	6.19	10.05	419.5	12.4	0.3	9.5	3.00	2.32	
450.0	6.93	14.52	449.3	15.8	1.1	12.5	3.00	2.47	
480.0	7.71	18.11	479.1	19.4	2.1	16.0	3.00	2.59	
510.0	8.51	21.03	508.8	23.4	3.6	19.9	3.00	2.67	
540.0	9.33	23.46	538.4	27.7	5.3	24.3	3.00	2.73	
570.0	10.16	25.49	568.0	32.3	7.4	29.2	3.00	2.77	
600.0	11.00	27.22	597.5	37.3	9.9	34.5	3.00	2.81	
630.0	11.85	28.70	626.9	42.5	12.7	40.3	3.00	2.84	
660.0	12.71	29.98	656.2	48.1	15.8	46.5	3.00	2.86	
690.0	13.57	31.11	685.4	53.9	19.3	53.2	3.00	2.88	
720.0	14.44	32.10	714.5	60.1	23.1	60.4	3.00	2.89	
750.0	15.31	32.98	743.5	66.6	27.2	68.0	3.00	2.90	
780.0	16.18	33.77	772.4	73.4	31.7	76.1	3.00	2.91	
810.0	17.06	34.48	801.1	80.5	36.5	84.6	3.00	2.92	
840.0	17.94	35.12	829.8	87.9	41.7	93.5	3.00	2.93	
870.0	18.82	35.71	858.2	95.6	47.2	102.9	3.00	2.94	
900.0	19.70	36.24	886.5	103.6	53.0	112.8	3.00	2.94	
930.0	20.59	36.73	914.7	112.0	59.1	123.1	3.00	2.95	
960.0	21.47	37.18	942.7	120.6	65.6	133.8	3.00	2.95	
990.0	22.36	37.60	970.5	129.4	72.4	145.0	3.00	2.95	
1,020.0	23.25	37.99	998.2	138.6	79.5	156.6	3.00	2.96	
1,050.0	24.13	38.35	1,025.7	148.1	87.0	168.6	3.00	2.96	
1,080.0	25.02	38.68	1,053.0	157.9	94.7	181.1	3.00	2.96	
1,110.0	25.91	39.00	1,080.0	167.9	102.8	194.0	3.00	2.97	
1,140.0	26.80	39.29	1,106.9	178.3	111.2	207.3	3.00	2.97	
1,170.0	27.70	39.57	1,133.6	188.9	120.0	221.0	3.00	2.97	
1,200.0	28.59	39.83	1,160.0	199.8	129.0	235.2	3.00	2.97	
1,230.0	29.48	40.07	1,186.3	210.9	138.3	249.7	3.00	2.97	
1,260.0	30.37	40.31	1,212.3	222.3	148.0	264.7	3.00	2.97	
1,290.0	31.26	40.53	1,238.0	234.0	158.0	280.1	3.00	2.98	
1,320.0	32.16	40.74	1,263.6	246.0	168.2	295.8	3.00	2.98	
1,350.0	33.05	40.94	1,288.8	258.2	178.8	312.0	3.00	2.98	
1,380.0	33.94	41.13	1,313.8	270.7	189.7	328.5	3.00	2.98	
1,410.0	34.84	41.31	1,338.6	283.5	200.8	345.5	3.00	2.98	
1,440.0	35.73	41.49	1,363.1	296.5	212.3	362.8	3.00	2.98	
1,470.0	36.63	41.65	1,387.3	309.7	224.0	380.5	3.00	2.98	

## Planning Report

<b>Database:</b>	USA EDM 5000 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well NP MF06C-3 O04 696 (was 09C-4)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Site:</b>	O04 696 (3rd)	<b>North Reference:</b>	True
<b>Well:</b>	NP MF06C-3 O04 696 (was 09C-4)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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	37.52	41.81	1,411.2	323.2	236.1	398.6	3.00	2.98	
1,530.0	38.42	41.97	1,434.9	337.0	248.4	417.1	3.00	2.98	
1,560.0	39.31	42.11	1,458.2	350.9	261.0	435.9	3.00	2.98	
1,586.2	40.09	42.24	1,478.4	363.3	272.3	452.6	3.00	2.98	EOB; Inc=40°
1,590.0	40.10	42.24	1,481.3	365.2	273.9	455.1	0.03	0.03	
1,620.0	40.10	42.24	1,504.3	379.5	286.9	474.4	0.00	0.00	
1,650.0	40.10	42.24	1,527.2	393.8	299.9	493.7	0.00	0.00	
1,680.0	40.10	42.24	1,550.2	408.1	312.9	513.0	0.00	0.00	
1,710.0	40.10	42.24	1,573.1	422.4	325.9	532.4	0.00	0.00	
1,740.0	40.10	42.24	1,596.1	436.7	338.8	551.7	0.00	0.00	
1,770.0	40.10	42.24	1,619.0	451.0	351.8	571.0	0.00	0.00	
1,800.0	40.10	42.24	1,642.0	465.3	364.8	590.3	0.00	0.00	
1,830.0	40.10	42.24	1,664.9	479.6	377.8	609.6	0.00	0.00	
1,860.0	40.10	42.24	1,687.9	493.9	390.8	629.0	0.00	0.00	
1,890.0	40.10	42.24	1,710.8	508.2	403.8	648.3	0.00	0.00	
1,920.0	40.10	42.24	1,733.7	522.5	416.8	667.6	0.00	0.00	
1,950.0	40.10	42.24	1,756.7	536.8	429.8	686.9	0.00	0.00	
1,980.0	40.10	42.24	1,779.6	551.1	442.8	706.2	0.00	0.00	
2,010.0	40.10	42.24	1,802.6	565.4	455.7	725.6	0.00	0.00	
2,040.0	40.10	42.24	1,825.5	579.7	468.7	744.9	0.00	0.00	
2,070.0	40.10	42.24	1,848.5	594.0	481.7	764.2	0.00	0.00	
2,100.0	40.10	42.24	1,871.4	608.3	494.7	783.5	0.00	0.00	
2,130.0	40.10	42.24	1,894.4	622.6	507.7	802.8	0.00	0.00	
2,160.0	40.10	42.24	1,917.3	637.0	520.7	822.2	0.00	0.00	
2,190.0	40.10	42.24	1,940.3	651.3	533.7	841.5	0.00	0.00	
2,220.0	40.10	42.24	1,963.2	665.6	546.7	860.8	0.00	0.00	
2,250.0	40.10	42.24	1,986.2	679.9	559.6	880.1	0.00	0.00	
2,280.0	40.10	42.24	2,009.1	694.2	572.6	899.4	0.00	0.00	
2,310.0	40.10	42.24	2,032.1	708.5	585.6	918.8	0.00	0.00	
2,340.0	40.10	42.24	2,055.0	722.8	598.6	938.1	0.00	0.00	
2,370.0	40.10	42.24	2,078.0	737.1	611.6	957.4	0.00	0.00	
2,400.0	40.10	42.24	2,100.9	751.4	624.6	976.7	0.00	0.00	
2,430.0	40.10	42.24	2,123.9	765.7	637.6	996.0	0.00	0.00	
2,460.0	40.10	42.24	2,146.8	780.0	650.6	1,015.3	0.00	0.00	
2,490.0	40.10	42.24	2,169.8	794.3	663.6	1,034.7	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 MF06C-3 BHL	0.00	0.00	8,534.0	2,471.9	2,178.9	1,638,463.14	2,267,016.52	39° 33' 27.22 N	108° 6' 0.11 W
- plan misses target center by 6753.8ft at 2490.0ft MD (2169.8 TVD, 794.3 N, 663.6 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
O04 696 MF06C-3 TGT	0.00	0.00	5,574.0	2,481.9	2,195.8	1,638,472.62	2,267,033.72	39° 33' 27.32 N	108° 5' 59.89 W
- plan misses target center by 4096.9ft at 2490.0ft MD (2169.8 TVD, 794.3 N, 663.6 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 MF06C-3 O04 696 (was 09C-4)  
**Wellbore:** DD  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well NP MF06C-3 O04 696 (was 09C-4)  
**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	40.10	42.24	2,177.4	799.1	667.9	1,041.1	0.00	0.00	
2,600.0	40.10	42.24	2,253.9	846.8	711.2	1,105.5	0.00	0.00	
2,700.0	40.10	42.24	2,330.4	894.5	754.5	1,169.9	0.00	0.00	
2,800.0	40.10	42.24	2,406.9	942.1	797.8	1,234.3	0.00	0.00	
2,900.0	40.10	42.24	2,483.4	989.8	841.1	1,298.7	0.00	0.00	
3,000.0	40.10	42.24	2,559.9	1,037.5	884.4	1,363.1	0.00	0.00	
3,100.0	40.10	42.24	2,636.4	1,085.2	927.7	1,427.5	0.00	0.00	
3,200.0	40.10	42.24	2,712.9	1,132.9	971.0	1,491.9	0.00	0.00	
3,300.0	40.10	42.24	2,789.4	1,180.6	1,014.2	1,556.3	0.00	0.00	
3,400.0	40.10	42.24	2,865.9	1,228.2	1,057.5	1,620.7	0.00	0.00	
3,500.0	40.10	42.24	2,942.4	1,275.9	1,100.8	1,685.1	0.00	0.00	
3,600.0	40.10	42.24	3,018.9	1,323.6	1,144.1	1,749.5	0.00	0.00	
3,700.0	40.10	42.24	3,095.4	1,371.3	1,187.4	1,813.9	0.00	0.00	
3,800.0	40.10	42.24	3,171.9	1,419.0	1,230.7	1,878.3	0.00	0.00	
3,900.0	40.10	42.24	3,248.4	1,466.7	1,274.0	1,942.7	0.00	0.00	
4,000.0	40.10	42.24	3,324.9	1,514.3	1,317.3	2,007.1	0.00	0.00	
4,100.0	40.10	42.24	3,401.4	1,562.0	1,360.6	2,071.5	0.00	0.00	
4,200.0	40.10	42.24	3,477.9	1,609.7	1,403.9	2,135.9	0.00	0.00	
4,300.0	40.10	42.24	3,554.4	1,657.4	1,447.2	2,200.3	0.00	0.00	
4,400.0	40.10	42.24	3,630.9	1,705.1	1,490.5	2,264.7	0.00	0.00	
4,500.0	40.10	42.24	3,707.4	1,752.8	1,533.8	2,329.1	0.00	0.00	
4,600.0	40.10	42.24	3,783.9	1,800.5	1,577.1	2,393.5	0.00	0.00	
4,700.0	40.10	42.24	3,860.4	1,848.1	1,620.4	2,457.9	0.00	0.00	
4,800.0	40.10	42.24	3,936.9	1,895.8	1,663.7	2,522.3	0.00	0.00	
4,900.0	40.10	42.24	4,013.3	1,943.5	1,707.0	2,586.7	0.00	0.00	
5,000.0	40.10	42.24	4,089.8	1,991.2	1,750.3	2,651.1	0.00	0.00	
5,100.0	40.10	42.24	4,166.3	2,038.9	1,793.6	2,715.5	0.00	0.00	
5,200.0	40.10	42.24	4,242.8	2,086.6	1,836.9	2,779.9	0.00	0.00	
5,300.0	40.10	42.24	4,319.3	2,134.2	1,880.1	2,844.3	0.00	0.00	
5,332.1	40.10	42.24	4,343.9	2,149.6	1,894.0	2,865.0	0.00	0.00	Start Drop -3.00
5,400.0	38.06	42.24	4,396.6	2,181.2	1,922.8	2,907.8	3.00	-3.00	
5,500.0	35.06	42.24	4,476.9	2,225.3	1,962.9	2,967.3	3.00	-3.00	
5,600.0	32.06	42.24	4,560.2	2,266.3	2,000.0	3,022.6	3.00	-3.00	
5,700.0	29.06	42.24	4,646.3	2,303.9	2,034.2	3,073.4	3.00	-3.00	
5,800.0	26.06	42.24	4,735.0	2,338.1	2,065.3	3,119.7	3.00	-3.00	
5,900.0	23.06	42.24	4,825.9	2,368.9	2,093.2	3,161.2	3.00	-3.00	
6,000.0	20.06	42.24	4,918.9	2,396.1	2,117.9	3,198.0	3.00	-3.00	
6,100.0	17.06	42.24	5,013.7	2,419.7	2,139.3	3,229.8	3.00	-3.00	
6,121.2	16.42	42.24	5,034.0	2,424.2	2,143.4	3,235.9	3.00	-3.00	Williams Fork
6,162.8	15.18	42.24	5,074.0	2,432.6	2,151.0	3,247.2	3.00	-3.00	Top of Gas
6,200.0	14.06	42.24	5,110.0	2,439.5	2,157.3	3,256.6	3.00	-3.00	
6,300.0	11.06	42.24	5,207.6	2,455.6	2,172.0	3,278.3	3.00	-3.00	
6,400.0	8.06	42.24	5,306.2	2,467.9	2,183.1	3,294.9	3.00	-3.00	
6,500.0	5.06	42.24	5,405.6	2,476.4	2,190.8	3,306.4	3.00	-3.00	
6,600.0	2.06	42.24	5,505.3	2,481.0	2,195.0	3,312.6	3.00	-3.00	
6,668.7	0.00	42.24	5,574.0	2,481.9	2,195.8	3,313.8	3.00	-3.00	EOD; Inc=0° - O04 696 MF06C-3 TGT (6.13.11)
6,700.0	0.08	239.49	5,605.3	2,481.9	2,195.8	3,313.8	0.25	0.25	
6,800.0	0.33	239.49	5,705.3	2,481.7	2,195.5	3,313.4	0.25	0.25	
6,824.8	0.39	239.49	5,730.2	2,481.6	2,195.3	3,313.3	0.25	0.25	
6,900.0	0.39	239.49	5,805.3	2,481.4	2,194.9	3,312.8	0.00	0.00	
7,000.0	0.39	239.49	5,905.3	2,481.0	2,194.3	3,312.2	0.00	0.00	
7,100.0	0.39	239.49	6,005.3	2,480.7	2,193.7	3,311.5	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well NP MF06C-3 O04 696 (was 09C-4)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Site:</b>	O04 696 (3rd)	<b>North Reference:</b>	True
<b>Well:</b>	NP MF06C-3 O04 696 (was 09C-4)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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
7,200.0	0.39	239.49	6,105.3	2,480.3	2,193.1	3,310.9	0.00	0.00	
7,300.0	0.39	239.49	6,205.3	2,480.0	2,192.6	3,310.2	0.00	0.00	
7,400.0	0.39	239.49	6,305.3	2,479.6	2,192.0	3,309.6	0.00	0.00	
7,500.0	0.39	239.49	6,405.3	2,479.3	2,191.4	3,308.9	0.00	0.00	
7,600.0	0.39	239.49	6,505.3	2,478.9	2,190.8	3,308.3	0.00	0.00	
7,700.0	0.39	239.49	6,605.3	2,478.6	2,190.2	3,307.6	0.00	0.00	
7,800.0	0.39	239.49	6,705.3	2,478.3	2,189.6	3,307.0	0.00	0.00	
7,900.0	0.39	239.49	6,805.3	2,477.9	2,189.0	3,306.3	0.00	0.00	
8,000.0	0.39	239.49	6,905.3	2,477.6	2,188.4	3,305.7	0.00	0.00	
8,100.0	0.39	239.49	7,005.3	2,477.2	2,187.9	3,305.0	0.00	0.00	
8,200.0	0.39	239.49	7,105.3	2,476.9	2,187.3	3,304.4	0.00	0.00	
8,300.0	0.39	239.49	7,205.3	2,476.5	2,186.7	3,303.7	0.00	0.00	
8,400.0	0.39	239.49	7,305.3	2,476.2	2,186.1	3,303.1	0.00	0.00	
8,500.0	0.39	239.49	7,405.3	2,475.8	2,185.5	3,302.4	0.00	0.00	
8,600.0	0.39	239.49	7,505.3	2,475.5	2,184.9	3,301.8	0.00	0.00	
8,700.0	0.39	239.49	7,605.3	2,475.1	2,184.3	3,301.2	0.00	0.00	
8,800.0	0.39	239.49	7,705.3	2,474.8	2,183.7	3,300.5	0.00	0.00	
8,900.0	0.39	239.49	7,805.3	2,474.5	2,183.2	3,299.9	0.00	0.00	
9,000.0	0.39	239.49	7,905.3	2,474.1	2,182.6	3,299.2	0.00	0.00	
9,100.0	0.39	239.49	8,005.3	2,473.8	2,182.0	3,298.6	0.00	0.00	
9,200.0	0.39	239.49	8,105.3	2,473.4	2,181.4	3,297.9	0.00	0.00	
9,300.0	0.39	239.49	8,205.3	2,473.1	2,180.8	3,297.3	0.00	0.00	
9,400.0	0.39	239.49	8,305.3	2,472.7	2,180.2	3,296.6	0.00	0.00	
9,500.0	0.39	239.49	8,405.3	2,472.4	2,179.6	3,296.0	0.00	0.00	
9,600.0	0.39	239.49	8,505.3	2,472.0	2,179.0	3,295.3	0.00	0.00	
9,628.7	0.39	239.49	8,534.0	2,471.9	2,178.9	3,295.1	0.00	0.00	Rollins - O04 696 MF06C-3 BHL (6.13.11)
9,700.0	0.39	239.49	8,605.3	2,471.7	2,178.5	3,294.7	0.00	0.00	
9,778.7	0.39	239.49	8,684.0	2,471.4	2,178.0	3,294.2	0.00	0.00	Drillers TD @ 8684' TVD
9,800.0	0.39	239.49	8,705.3	2,471.3	2,177.9	3,294.0	0.00	0.00	
9,900.0	0.39	239.49	8,805.3	2,471.0	2,177.3	3,293.4	0.00	0.00	
10,000.0	0.39	239.49	8,905.3	2,470.6	2,176.7	3,292.7	0.00	0.00	
10,100.0	0.39	239.49	9,005.3	2,470.3	2,176.1	3,292.1	0.00	0.00	
10,200.0	0.39	239.49	9,105.3	2,470.0	2,175.5	3,291.4	0.00	0.00	
10,300.0	0.39	239.49	9,205.3	2,469.6	2,174.9	3,290.8	0.00	0.00	
10,400.0	0.39	239.49	9,305.3	2,469.3	2,174.4	3,290.1	0.00	0.00	
10,500.0	0.39	239.49	9,405.2	2,468.9	2,173.8	3,289.5	0.00	0.00	
10,600.0	0.39	239.49	9,505.2	2,468.6	2,173.2	3,288.8	0.00	0.00	
10,700.0	0.39	239.49	9,605.2	2,468.2	2,172.6	3,288.2	0.00	0.00	
10,800.0	0.39	239.49	9,705.2	2,467.9	2,172.0	3,287.6	0.00	0.00	
10,900.0	0.39	239.49	9,805.2	2,467.5	2,171.4	3,286.9	0.00	0.00	
11,000.0	0.39	239.49	9,905.2	2,467.2	2,170.8	3,286.3	0.00	0.00	
11,094.8	0.39	239.49	10,000.0	2,466.9	2,170.3	3,285.6	0.00	0.00	Permit TD @ 10000' TVD

## Planning Report

<b>Database:</b>	USA EDM 5000 US Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well NP MF06C-3 O04 696 (was 09C-4)
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 6044.0ft (Original Well Elev)
<b>Site:</b>	O04 696 (3rd)	<b>North Reference:</b>	True
<b>Well:</b>	NP MF06C-3 O04 696 (was 09C-4)	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
O04 696 MF06C-3 BHL	0.00	0.00	8,534.0	2,471.9	2,178.9	1,638,463.14	2,267,016.52	39° 33' 27.22 N	108° 6' 0.11 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									
O04 696 MF06C-3 TGT	0.00	0.00	5,574.0	2,481.9	2,195.8	1,638,472.62	2,267,033.72	39° 33' 27.32 N	108° 5' 59.89 W
- plan hits target center									
- Point									

Formations					
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
6,121.2	5,034.0	Williams Fork		0.00	
6,162.8	5,074.0	Top of Gas		0.00	
9,628.7	8,534.0	Rollins		0.00	

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,586.2	1,478.4	7.3	-0.1	EOB; Inc=40°
5,332.1	4,343.9	363.4	272.3	Start Drop -3.00
6,668.7	5,574.0	2,149.6	1,894.1	EOD; Inc=0°
9,778.7	8,684.0	2,481.9	2,195.8	Drillers TD @ 8684' TVD
11,094.8	10,000.0	2,481.6	2,195.3	Permit TD @ 10000' TVD