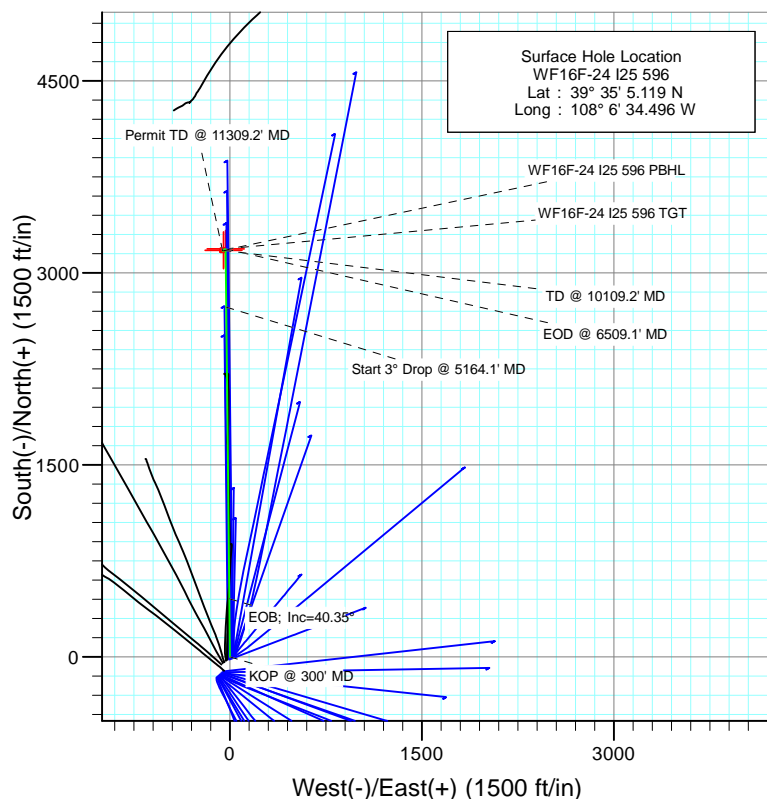


#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	1645.0	40.35	359.40	1536.6	454.3	-4.7	3.00	359.40	454.3	
4	5164.1	40.35	359.40	4218.4	2732.7	-28.5	0.00	0.00	2732.7	WF16F-24 I25 596 TGT
5	6509.1	0.00	0.00	5455.0	3187.0	-33.2	3.00	180.00	3187.1	WF16F-24 I25 596 PBHL
6	6641.0	0.33	239.59	5586.9	3186.8	-33.5	0.25	239.59	3186.9	
7	10009.2	0.33	239.59	8955.0	3177.0	-50.2	0.00	0.00	3177.4	
8	10109.2	0.33	239.59	9055.0	3176.7	-50.7	0.00	0.00	3177.1	
9	11309.2	0.33	239.59	10255.0	3173.2	-56.7	0.00	0.00	3173.7	



#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3400.0	4090.2	Wastch G
5455.0	6509.1	Williams Fork
8955.0	10009.2	Rollins



Azimuths to True North  
Magnetic North: 10.29°

Magnetic Field  
Strength: 52183.7nT  
Dip Angle: 65.76°  
Date: 6/15/2012  
Model: IGRF2010

Plan #1  
WF16F-24 I25 596  
125XXX; SC  
KB=22' @ 5846.0ft (Original Well Elev)  
North American Datum 1983  
Well WF16F-24 I25 596, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
TD	No Target (Freehand)	358.98	Slot		0.0	0.0	TVD
Name							0.0
WF16F-24 I25 596 TGT		5455.0	+N/-S	+E/-W	39° 35'	36.617 N	108° 6' 34.920 W
WF16F-24 I25 596 PBHL		8955.0	3187.0	-33.2	39° 35'	36.518 N	108° 6' 35.138 W
			3177.0	-50.2			

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well WF16F-24 I25 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Site:</b>	I25 596	<b>North Reference:</b>	True
<b>Well:</b>	WF16F-24 I25 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

<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		

Site	I25 596				
Site Position:		Northing:	1,648,435.29 ft	Latitude:	39.5847371
From:	Lat/Long	Easting:	2,264,601.34 ft	Longitude:	-108.1096087
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.65 °

Well	WF16F-24 I25 596					
Well Position	+N/-S	0.0 ft	Northing:	1,648,441.68 ft	Latitude:	39.5847552
	+E/-W	0.0 ft	Easting:	2,264,608.99 ft	Longitude:	-108.1095822
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,824.0 ft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	IGRF2010	6/15/2012	10.29	65.76	52,184

<b>Design</b>	Plan #1			
<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	358.98

<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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,645.0	40.35	359.40	1,536.6	454.3	-4.7	3.00	3.00	0.00	359.40	
5,164.1	40.35	359.40	4,218.4	2,732.7	-28.5	0.00	0.00	0.00	0.00	
6,509.1	0.00	0.00	5,455.0	3,187.0	-33.2	3.00	-3.00	0.00	180.00	WF16F-24 I25 596 TC
6,641.0	0.33	239.59	5,586.9	3,186.8	-33.5	0.25	0.25	-91.28	239.59	
10,009.2	0.33	239.59	8,955.0	3,177.0	-50.2	0.00	0.00	0.00	0.00	WF16F-24 I25 596 PE
10,109.2	0.33	239.59	9,055.0	3,176.7	-50.7	0.00	0.00	0.00	0.00	
11,309.2	0.33	239.59	10,255.0	3,173.2	-56.7	0.00	0.00	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well WF16F-24 I25 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Site:</b>	I25 596	<b>North Reference:</b>	True
<b>Well:</b>	WF16F-24 I25 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	KOP @ 300' MD
400.0	3.00	359.40	400.0	2.6	0.0	2.6	3.00	3.00	
500.0	6.00	359.40	499.6	10.5	-0.1	10.5	3.00	3.00	
600.0	9.00	359.40	598.8	23.5	-0.2	23.5	3.00	3.00	
700.0	12.00	359.40	697.1	41.7	-0.4	41.7	3.00	3.00	
800.0	15.00	359.40	794.3	65.1	-0.7	65.1	3.00	3.00	
900.0	18.00	359.40	890.2	93.5	-1.0	93.5	3.00	3.00	
1,000.0	21.00	359.40	984.4	126.8	-1.3	126.8	3.00	3.00	
1,100.0	24.00	359.40	1,076.8	165.1	-1.7	165.1	3.00	3.00	
1,200.0	27.00	359.40	1,167.1	208.2	-2.2	208.2	3.00	3.00	
1,300.0	30.00	359.40	1,254.9	255.9	-2.7	255.9	3.00	3.00	
1,400.0	33.00	359.40	1,340.2	308.1	-3.2	308.1	3.00	3.00	
1,500.0	36.00	359.40	1,422.6	364.7	-3.8	364.7	3.00	3.00	
1,600.0	39.00	359.40	1,501.9	425.6	-4.4	425.6	3.00	3.00	
1,645.0	40.35	359.40	1,536.6	454.3	-4.7	454.3	3.00	3.00	EOB; Inc=40.35°
1,700.0	40.35	359.40	1,578.5	489.9	-5.1	489.9	0.00	0.00	
1,800.0	40.35	359.40	1,654.7	554.7	-5.8	554.7	0.00	0.00	
1,900.0	40.35	359.40	1,730.9	619.4	-6.5	619.4	0.00	0.00	
2,000.0	40.35	359.40	1,807.1	684.2	-7.1	684.2	0.00	0.00	
2,100.0	40.35	359.40	1,883.3	748.9	-7.8	748.9	0.00	0.00	
2,200.0	40.35	359.40	1,959.5	813.6	-8.5	813.7	0.00	0.00	
2,300.0	40.35	359.40	2,035.7	878.4	-9.2	878.4	0.00	0.00	
2,400.0	40.35	359.40	2,111.9	943.1	-9.8	943.2	0.00	0.00	
2,500.0	40.35	359.40	2,188.1	1,007.9	-10.5	1,007.9	0.00	0.00	
2,600.0	40.35	359.40	2,264.4	1,072.6	-11.2	1,072.6	0.00	0.00	
2,700.0	40.35	359.40	2,340.6	1,137.4	-11.8	1,137.4	0.00	0.00	
2,800.0	40.35	359.40	2,416.8	1,202.1	-12.5	1,202.1	0.00	0.00	
2,900.0	40.35	359.40	2,493.0	1,266.8	-13.2	1,266.9	0.00	0.00	
3,000.0	40.35	359.40	2,569.2	1,331.6	-13.9	1,331.6	0.00	0.00	
3,100.0	40.35	359.40	2,645.4	1,396.3	-14.5	1,396.4	0.00	0.00	
3,200.0	40.35	359.40	2,721.6	1,461.1	-15.2	1,461.1	0.00	0.00	
3,300.0	40.35	359.40	2,797.8	1,525.8	-15.9	1,525.9	0.00	0.00	
3,400.0	40.35	359.40	2,874.0	1,590.6	-16.6	1,590.6	0.00	0.00	
3,500.0	40.35	359.40	2,950.2	1,655.3	-17.2	1,655.3	0.00	0.00	
3,600.0	40.35	359.40	3,026.5	1,720.0	-17.9	1,720.1	0.00	0.00	
3,700.0	40.35	359.40	3,102.7	1,784.8	-18.6	1,784.8	0.00	0.00	
3,800.0	40.35	359.40	3,178.9	1,849.5	-19.3	1,849.6	0.00	0.00	
3,900.0	40.35	359.40	3,255.1	1,914.3	-19.9	1,914.3	0.00	0.00	
4,000.0	40.35	359.40	3,331.3	1,979.0	-20.6	1,979.1	0.00	0.00	
4,090.2	40.35	359.40	3,400.0	2,037.4	-21.2	2,037.4	0.00	0.00	Wastch G
4,100.0	40.35	359.40	3,407.5	2,043.8	-21.3	2,043.8	0.00	0.00	
4,200.0	40.35	359.40	3,483.7	2,108.5	-22.0	2,108.6	0.00	0.00	
4,300.0	40.35	359.40	3,559.9	2,173.2	-22.6	2,173.3	0.00	0.00	
4,400.0	40.35	359.40	3,636.1	2,238.0	-23.3	2,238.0	0.00	0.00	
4,500.0	40.35	359.40	3,712.3	2,302.7	-24.0	2,302.8	0.00	0.00	
4,600.0	40.35	359.40	3,788.6	2,367.5	-24.7	2,367.5	0.00	0.00	
4,700.0	40.35	359.40	3,864.8	2,432.2	-25.3	2,432.3	0.00	0.00	
4,800.0	40.35	359.40	3,941.0	2,496.9	-26.0	2,497.0	0.00	0.00	
4,900.0	40.35	359.40	4,017.2	2,561.7	-26.7	2,561.8	0.00	0.00	

# Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** North Piceance  
**Site:** I25 596  
**Well:** WF16F-24 I25 596  
**Wellbore:** OH  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well WF16F-24 I25 596  
**TVD Reference:** KB=22' @ 5846.0ft (Original Well Elev)  
**MD Reference:** KB=22' @ 5846.0ft (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
5,000.0	40.35	359.40	4,093.4	2,626.4	-27.4	2,626.5	0.00	0.00	
5,100.0	40.35	359.40	4,169.6	2,691.2	-28.0	2,691.2	0.00	0.00	
5,164.1	40.35	359.40	4,218.4	2,732.7	-28.5	2,732.7	0.00	0.00	Start 3° Drop @ 5164.1' MD
5,200.0	39.27	359.40	4,246.0	2,755.7	-28.7	2,755.7	3.00	-3.00	
5,300.0	36.27	359.40	4,325.1	2,816.9	-29.3	2,817.0	3.00	-3.00	
5,400.0	33.27	359.40	4,407.2	2,873.9	-29.9	2,874.0	3.00	-3.00	
5,500.0	30.27	359.40	4,492.2	2,926.6	-30.5	2,926.7	3.00	-3.00	
5,600.0	27.27	359.40	4,579.8	2,974.7	-31.0	2,974.8	3.00	-3.00	
5,700.0	24.27	359.40	4,669.9	3,018.2	-31.4	3,018.3	3.00	-3.00	
5,800.0	21.27	359.40	4,762.1	3,056.9	-31.8	3,057.0	3.00	-3.00	
5,900.0	18.27	359.40	4,856.2	3,090.7	-32.2	3,090.8	3.00	-3.00	
6,000.0	15.27	359.40	4,951.9	3,119.6	-32.5	3,119.6	3.00	-3.00	
6,100.0	12.27	359.40	5,049.0	3,143.4	-32.7	3,143.4	3.00	-3.00	
6,200.0	9.27	359.40	5,147.2	3,162.0	-32.9	3,162.1	3.00	-3.00	
6,300.0	6.27	359.40	5,246.3	3,175.6	-33.1	3,175.6	3.00	-3.00	
6,400.0	3.27	359.40	5,346.0	3,183.9	-33.2	3,184.0	3.00	-3.00	
6,500.0	0.27	359.40	5,445.9	3,187.0	-33.2	3,187.1	3.00	-3.00	
6,509.1	0.00	0.00	5,455.0	3,187.0	-33.2	3,187.1	3.00	-3.00	EOD @ 6509.1' MD - Williams Fork
6,600.0	0.23	239.59	5,545.9	3,186.9	-33.4	3,187.0	0.25	0.25	
6,641.0	0.33	239.59	5,586.9	3,186.8	-33.5	3,186.9	0.25	0.25	
6,700.0	0.33	239.59	5,645.9	3,186.6	-33.8	3,186.7	0.00	0.00	
6,800.0	0.33	239.59	5,745.9	3,186.3	-34.3	3,186.4	0.00	0.00	
6,900.0	0.33	239.59	5,845.9	3,186.1	-34.8	3,186.2	0.00	0.00	
7,000.0	0.33	239.59	5,945.9	3,185.8	-35.3	3,185.9	0.00	0.00	
7,100.0	0.33	239.59	6,045.9	3,185.5	-35.8	3,185.6	0.00	0.00	
7,200.0	0.33	239.59	6,145.9	3,185.2	-36.3	3,185.3	0.00	0.00	
7,300.0	0.33	239.59	6,245.9	3,184.9	-36.8	3,185.0	0.00	0.00	
7,400.0	0.33	239.59	6,345.9	3,184.6	-37.3	3,184.8	0.00	0.00	
7,500.0	0.33	239.59	6,445.9	3,184.3	-37.8	3,184.5	0.00	0.00	
7,600.0	0.33	239.59	6,545.9	3,184.0	-38.3	3,184.2	0.00	0.00	
7,700.0	0.33	239.59	6,645.9	3,183.7	-38.8	3,183.9	0.00	0.00	
7,800.0	0.33	239.59	6,745.9	3,183.4	-39.3	3,183.6	0.00	0.00	
7,900.0	0.33	239.59	6,845.9	3,183.1	-39.8	3,183.3	0.00	0.00	
8,000.0	0.33	239.59	6,945.9	3,182.8	-40.3	3,183.1	0.00	0.00	
8,100.0	0.33	239.59	7,045.9	3,182.6	-40.8	3,182.8	0.00	0.00	
8,200.0	0.33	239.59	7,145.9	3,182.3	-41.3	3,182.5	0.00	0.00	
8,300.0	0.33	239.59	7,245.9	3,182.0	-41.8	3,182.2	0.00	0.00	
8,400.0	0.33	239.59	7,345.9	3,181.7	-42.3	3,181.9	0.00	0.00	
8,500.0	0.33	239.59	7,445.9	3,181.4	-42.8	3,181.6	0.00	0.00	
8,600.0	0.33	239.59	7,545.9	3,181.1	-43.3	3,181.4	0.00	0.00	
8,700.0	0.33	239.59	7,645.9	3,180.8	-43.7	3,181.1	0.00	0.00	
8,800.0	0.33	239.59	7,745.9	3,180.5	-44.2	3,180.8	0.00	0.00	
8,900.0	0.33	239.59	7,845.9	3,180.2	-44.7	3,180.5	0.00	0.00	
9,000.0	0.33	239.59	7,945.9	3,179.9	-45.2	3,180.2	0.00	0.00	
9,100.0	0.33	239.59	8,045.9	3,179.6	-45.7	3,180.0	0.00	0.00	
9,200.0	0.33	239.59	8,145.9	3,179.4	-46.2	3,179.7	0.00	0.00	
9,300.0	0.33	239.59	8,245.9	3,179.1	-46.7	3,179.4	0.00	0.00	
9,400.0	0.33	239.59	8,345.9	3,178.8	-47.2	3,179.1	0.00	0.00	
9,500.0	0.33	239.59	8,445.9	3,178.5	-47.7	3,178.8	0.00	0.00	
9,600.0	0.33	239.59	8,545.9	3,178.2	-48.2	3,178.5	0.00	0.00	
9,700.0	0.33	239.59	8,645.8	3,177.9	-48.7	3,178.3	0.00	0.00	
9,800.0	0.33	239.59	8,745.8	3,177.6	-49.2	3,178.0	0.00	0.00	

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well WF16F-24 I25 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Site:</b>	I25 596	<b>North Reference:</b>	True
<b>Well:</b>	WF16F-24 I25 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
9,900.0	0.33	239.59	8,845.8	3,177.3	-49.7	3,177.7	0.00	0.00	
10,000.0	0.33	239.59	8,945.8	3,177.0	-50.2	3,177.4	0.00	0.00	
10,009.2	0.33	239.59	8,955.0	3,177.0	-50.2	3,177.4	0.00	0.00	Rollins
10,100.0	0.33	239.59	9,045.8	3,176.7	-50.7	3,177.1	0.00	0.00	
10,109.2	0.33	239.59	9,055.0	3,176.7	-50.7	3,177.1	0.00	0.00	TD @ 10109.2' MD
10,200.0	0.33	239.59	9,145.8	3,176.4	-51.2	3,176.8	0.00	0.00	
10,300.0	0.33	239.59	9,245.8	3,176.1	-51.7	3,176.6	0.00	0.00	
10,400.0	0.33	239.59	9,345.8	3,175.9	-52.2	3,176.3	0.00	0.00	
10,500.0	0.33	239.59	9,445.8	3,175.6	-52.7	3,176.0	0.00	0.00	
10,600.0	0.33	239.59	9,545.8	3,175.3	-53.2	3,175.7	0.00	0.00	
10,700.0	0.33	239.59	9,645.8	3,175.0	-53.7	3,175.4	0.00	0.00	
10,800.0	0.33	239.59	9,745.8	3,174.7	-54.2	3,175.2	0.00	0.00	
10,900.0	0.33	239.59	9,845.8	3,174.4	-54.7	3,174.9	0.00	0.00	
11,000.0	0.33	239.59	9,945.8	3,174.1	-55.2	3,174.6	0.00	0.00	
11,100.0	0.33	239.59	10,045.8	3,173.8	-55.7	3,174.3	0.00	0.00	
11,200.0	0.33	239.59	10,145.8	3,173.5	-56.2	3,174.0	0.00	0.00	
11,300.0	0.33	239.59	10,245.8	3,173.2	-56.7	3,173.7	0.00	0.00	
11,309.2	0.33	239.59	10,255.0	3,173.2	-56.7	3,173.7	0.00	0.00	Permit TD @ 11309.2' MD

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									
WF16F-24 I25 596 PBH - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0)	0.00	0.00	8,955.0	3,177.0	-50.2	1,651,618.81	2,264,650.02	39.5934772	-108.1097605
WF16F-24 I25 596 TGT - plan hits target center - Point	0.00	0.00	5,455.0	3,187.0	-33.2	1,651,628.32	2,264,667.34	39.5935047	-108.1097000

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,090.2	3,400.0	Wastch G				
6,509.1	5,455.0	Williams Fork				
10,009.2	8,955.0	Rollins				

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well WF16F-24 I25 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KB=22' @ 5846.0ft (Original Well Elev)
<b>Site:</b>	I25 596	<b>North Reference:</b>	True
<b>Well:</b>	WF16F-24 I25 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	Plan #1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300' MD
1,645.0	1,536.6	454.3	-4.7	EOB; Inc=40.35°
5,164.1	4,218.4	2,732.7	-28.5	Start 3° Drop @ 5164.1' MD
6,509.1	5,455.0	3,187.0	-33.2	EOD @ 6509.1' MD
10,109.2	9,055.0	3,186.8	-33.5	TD @ 10109.2' MD
11,309.2	10,255.0	3,177.0	-50.2	Permit TD @ 11309.2' MD