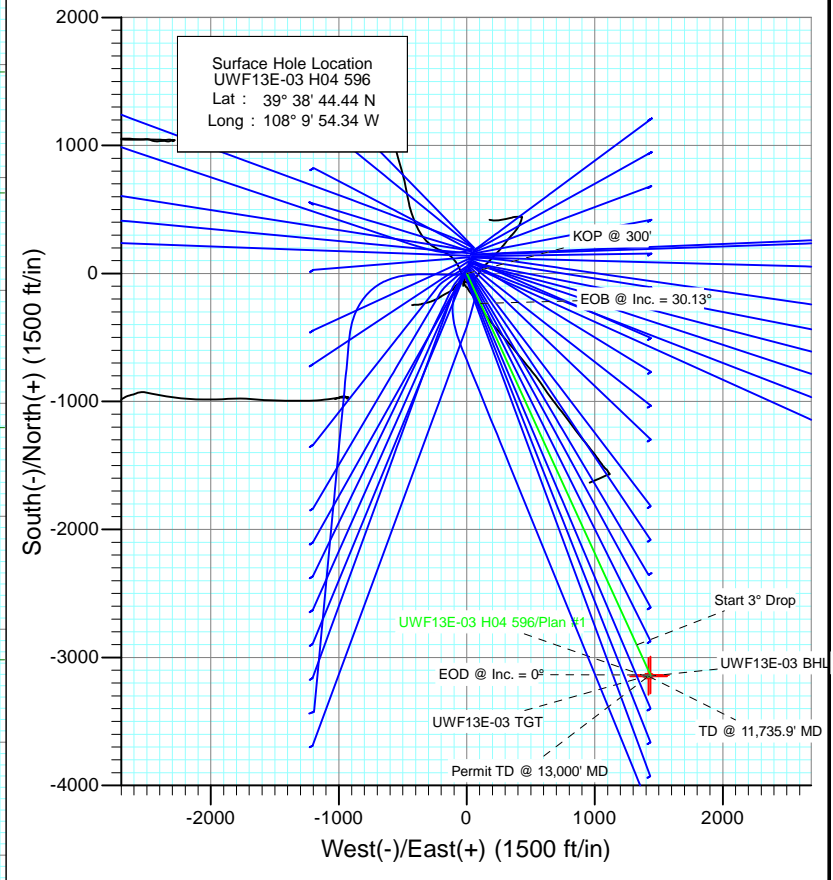


**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	1304.5	30.13	155.43	1258.8	-234.7	107.3	3.00	155.43	258.1	
4	7146.4	30.13	155.43	6311.2	-2902.0	1326.8	0.00	0.00	3190.8	UWF13E-03 TGT
5	8150.8	0.00	0.00	7270.0	-3136.7	1434.1	3.00	180.00	3448.9	UWF13E-03 BHL
6	9897.7	0.38	236.19	9016.8	-3139.9	1429.3	0.02	236.19	3449.9	
7	11735.9	0.38	236.19	10855.0	-3146.7	1419.1	0.00	0.00	3451.9	
8	13000.0	0.38	236.19	12119.1	-3151.4	1412.2	0.00	0.00	3453.3	



**T M**

Azimuths to True North  
 Magnetic North: 10.34°

Magnetic Field  
 Strength: 52205.6snT  
 Dip Angle: 65.81°  
 Date: 4/19/2012  
 Model: IGRF2010

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
1061.0	1082.7	A GROOVE
1222.0	1262.2	B GROOVE
1262.0	1308.2	B GROOVE BASE
2066.0	2237.8	GARDEN GULCH
3136.0	3475.0	WASATCH FM
5216.0	5880.0	WASATCH G
7270.0	8150.8	WILLIAMS FORK
10855.0	11735.9	ROLLINS
11098.0	11978.9	COZZETTE
11274.0	12154.9	CORCORAN
11569.0	12449.9	UPPER SEGO

Plan #1  
 UWF13E-03 H04 596  
 WELL @ 8293.0ft (Original Well Elev)  
 North American Datum 1983  
 Well UWF13E-03 H04 596, True North

Type TD	Target No Target (Freehand)	Azimuth 155.86	Origin Type Slot	N/S 0.0	E/W 0.0	From TVD 0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
UWF13E-03 TGT	7270.0	-3136.7	1434.1	39° 38' 13.44 N	108° 9' 36.01 W	
UWF13E-03 BHL	10855.0	-3146.7	1419.1	39° 38' 13.34 N	108° 9' 36.20 W	

# Cathedral Energy Services

## Planning Report

<b>Database:</b> USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b> Well UWF13E-03 H04 596
<b>Company:</b> EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b> WELL @ 8293.0ft (Original Well Elev)
<b>Project:</b> North Piceance	<b>MD Reference:</b> WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b> H04 Pad	<b>North Reference:</b> True
<b>Well:</b> UWF13E-03 H04 596	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Wellbore:</b> DD	
<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		

<b>Site</b> H04 Pad					
<b>Site Position:</b>		<b>Northing:</b>	1,671,070.85 ft	<b>Latitude:</b>	39° 38' 44.37 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,249,607.93 ft	<b>Longitude:</b>	108° 9' 54.50 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	13.200 in	<b>Grid Convergence:</b>	-1.68 °

<b>Well</b> UWF13E-03 H04 596					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,671,077.55 ft	<b>Latitude:</b> 39° 38' 44.44 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,249,620.65 ft	<b>Longitude:</b> 108° 9' 54.34 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b> 8,260.0 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</b>
	IGRF2010	4/19/2012	(°)	(°)	(nT)
			10.34	65.81	52,206

<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	155.86

<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	
1,304.5	30.13	155.43	1,258.8	-234.7	107.3	3.00	3.00	0.00	155.43	
7,146.4	30.13	155.43	6,311.2	-2,902.0	1,326.8	0.00	0.00	0.00	0.00	
8,150.8	0.00	0.00	7,270.0	-3,136.7	1,434.1	3.00	-3.00	0.00	180.00	UWF13E-03 TGT
9,897.7	0.38	236.19	9,016.8	-3,139.9	1,429.3	0.02	0.02	-7.09	236.19	
11,735.9	0.38	236.19	10,855.0	-3,146.7	1,419.1	0.00	0.00	0.00	0.00	UWF13E-03 BHL
13,000.0	0.38	236.19	12,119.1	-3,151.4	1,412.2	0.00	0.00	0.00	0.00	

# Cathedral Energy Services

## Planning Report

**Database:** USA EDM 5000 Multi Users DB  
**Company:** EnCana Oil & Gas (USA) Inc  
**Project:** North Piceance  
**Site:** H04 Pad  
**Well:** UWF13E-03 H04 596  
**Wellbore:** DD  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well UWF13E-03 H04 596  
**TVD Reference:** WELL @ 8293.0ft (Original Well Elev)  
**MD Reference:** WELL @ 8293.0ft (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	
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'
400.0	3.00	155.43	400.0	-2.4	1.1	2.6	3.00	3.00	
500.0	6.00	155.43	499.6	-9.5	4.4	10.5	3.00	3.00	
600.0	9.00	155.43	598.8	-21.4	9.8	23.5	3.00	3.00	
700.0	12.00	155.43	697.1	-38.0	17.4	41.7	3.00	3.00	
800.0	15.00	155.43	794.3	-59.2	27.1	65.1	3.00	3.00	
900.0	18.00	155.43	890.2	-85.0	38.9	93.5	3.00	3.00	
1,000.0	21.00	155.43	984.4	-115.4	52.7	126.8	3.00	3.00	
1,082.7	23.48	155.43	1,061.0	-143.8	65.8	158.2	3.00	3.00	A GROOVE
1,100.0	24.00	155.43	1,076.8	-150.2	68.7	165.1	3.00	3.00	
1,200.0	27.00	155.43	1,167.1	-189.3	86.6	208.2	3.00	3.00	
1,262.2	28.87	155.43	1,222.0	-215.8	98.7	237.3	3.00	3.00	B GROOVE
1,304.5	30.13	155.43	1,258.8	-234.7	107.3	258.1	3.00	3.00	EOB @ Inc. = 30.13°
1,308.2	30.13	155.43	1,262.0	-236.4	108.1	260.0	0.00	0.00	B GROOVE BASE
1,400.0	30.13	155.43	1,341.4	-278.4	127.3	306.1	0.00	0.00	
1,500.0	30.13	155.43	1,427.9	-324.0	148.1	356.3	0.00	0.00	
1,600.0	30.13	155.43	1,514.4	-369.7	169.0	406.5	0.00	0.00	
1,700.0	30.13	155.43	1,600.9	-415.3	189.9	456.7	0.00	0.00	
1,800.0	30.13	155.43	1,687.4	-461.0	210.8	506.9	0.00	0.00	
1,900.0	30.13	155.43	1,773.8	-506.6	231.6	557.1	0.00	0.00	
2,000.0	30.13	155.43	1,860.3	-552.3	252.5	607.3	0.00	0.00	
2,100.0	30.13	155.43	1,946.8	-598.0	273.4	657.5	0.00	0.00	
2,200.0	30.13	155.43	2,033.3	-643.6	294.3	707.7	0.00	0.00	
2,237.8	30.13	155.43	2,066.0	-660.9	302.2	726.6	0.00	0.00	GARDEN GULCH
2,300.0	30.13	155.43	2,119.8	-689.3	315.1	757.9	0.00	0.00	
2,400.0	30.13	155.43	2,206.3	-734.9	336.0	808.1	0.00	0.00	
2,500.0	30.13	155.43	2,292.8	-780.6	356.9	858.3	0.00	0.00	
2,600.0	30.13	155.43	2,379.2	-826.2	377.8	908.5	0.00	0.00	
2,700.0	30.13	155.43	2,465.7	-871.9	398.6	958.7	0.00	0.00	
2,800.0	30.13	155.43	2,552.2	-917.5	419.5	1,008.9	0.00	0.00	
2,900.0	30.13	155.43	2,638.7	-963.2	440.4	1,059.1	0.00	0.00	
3,000.0	30.13	155.43	2,725.2	-1,008.9	461.3	1,109.3	0.00	0.00	
3,100.0	30.13	155.43	2,811.7	-1,054.5	482.1	1,159.5	0.00	0.00	
3,200.0	30.13	155.43	2,898.2	-1,100.2	503.0	1,209.7	0.00	0.00	
3,300.0	30.13	155.43	2,984.6	-1,145.8	523.9	1,259.9	0.00	0.00	
3,400.0	30.13	155.43	3,071.1	-1,191.5	544.7	1,310.1	0.00	0.00	
3,475.0	30.13	155.43	3,136.0	-1,225.7	560.4	1,347.7	0.00	0.00	WASATCH FM
3,500.0	30.13	155.43	3,157.6	-1,237.1	565.6	1,360.3	0.00	0.00	
3,600.0	30.13	155.43	3,244.1	-1,282.8	586.5	1,410.5	0.00	0.00	
3,700.0	30.13	155.43	3,330.6	-1,328.5	607.4	1,460.7	0.00	0.00	
3,800.0	30.13	155.43	3,417.1	-1,374.1	628.2	1,510.9	0.00	0.00	
3,900.0	30.13	155.43	3,503.6	-1,419.8	649.1	1,561.1	0.00	0.00	
4,000.0	30.13	155.43	3,590.0	-1,465.4	670.0	1,611.3	0.00	0.00	
4,100.0	30.13	155.43	3,676.5	-1,511.1	690.9	1,661.5	0.00	0.00	
4,200.0	30.13	155.43	3,763.0	-1,556.7	711.7	1,711.7	0.00	0.00	
4,300.0	30.13	155.43	3,849.5	-1,602.4	732.6	1,761.9	0.00	0.00	
4,400.0	30.13	155.43	3,936.0	-1,648.1	753.5	1,812.1	0.00	0.00	
4,500.0	30.13	155.43	4,022.5	-1,693.7	774.4	1,862.3	0.00	0.00	
4,600.0	30.13	155.43	4,109.0	-1,739.4	795.2	1,912.5	0.00	0.00	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF13E-03 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13E-03 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<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
4,700.0	30.13	155.43	4,195.4	-1,785.0	816.1	1,962.7	0.00	0.00	
4,800.0	30.13	155.43	4,281.9	-1,830.7	837.0	2,012.9	0.00	0.00	
4,900.0	30.13	155.43	4,368.4	-1,876.3	857.9	2,063.1	0.00	0.00	
5,000.0	30.13	155.43	4,454.9	-1,922.0	878.7	2,113.3	0.00	0.00	
5,100.0	30.13	155.43	4,541.4	-1,967.7	899.6	2,163.5	0.00	0.00	
5,200.0	30.13	155.43	4,627.9	-2,013.3	920.5	2,213.7	0.00	0.00	
5,300.0	30.13	155.43	4,714.4	-2,059.0	941.4	2,263.9	0.00	0.00	
5,400.0	30.13	155.43	4,800.8	-2,104.6	962.2	2,314.1	0.00	0.00	
5,500.0	30.13	155.43	4,887.3	-2,150.3	983.1	2,364.3	0.00	0.00	
5,600.0	30.13	155.43	4,973.8	-2,195.9	1,004.0	2,414.5	0.00	0.00	
5,700.0	30.13	155.43	5,060.3	-2,241.6	1,024.9	2,464.7	0.00	0.00	
5,800.0	30.13	155.43	5,146.8	-2,287.2	1,045.7	2,514.9	0.00	0.00	
5,880.0	30.13	155.43	5,216.0	-2,323.8	1,062.4	2,555.1	0.00	0.00	WASATCH G
5,900.0	30.13	155.43	5,233.3	-2,332.9	1,066.6	2,565.1	0.00	0.00	
6,000.0	30.13	155.43	5,319.8	-2,378.6	1,087.5	2,615.3	0.00	0.00	
6,100.0	30.13	155.43	5,406.2	-2,424.2	1,108.4	2,665.5	0.00	0.00	
6,200.0	30.13	155.43	5,492.7	-2,469.9	1,129.2	2,715.7	0.00	0.00	
6,300.0	30.13	155.43	5,579.2	-2,515.5	1,150.1	2,765.9	0.00	0.00	
6,400.0	30.13	155.43	5,665.7	-2,561.2	1,171.0	2,816.1	0.00	0.00	
6,500.0	30.13	155.43	5,752.2	-2,606.8	1,191.8	2,866.3	0.00	0.00	
6,600.0	30.13	155.43	5,838.7	-2,652.5	1,212.7	2,916.5	0.00	0.00	
6,700.0	30.13	155.43	5,925.1	-2,698.2	1,233.6	2,966.7	0.00	0.00	
6,800.0	30.13	155.43	6,011.6	-2,743.8	1,254.5	3,016.9	0.00	0.00	
6,900.0	30.13	155.43	6,098.1	-2,789.5	1,275.3	3,067.1	0.00	0.00	
7,000.0	30.13	155.43	6,184.6	-2,835.1	1,296.2	3,117.3	0.00	0.00	
7,100.0	30.13	155.43	6,271.1	-2,880.8	1,317.1	3,167.5	0.00	0.00	
7,146.4	30.13	155.43	6,311.2	-2,902.0	1,326.8	3,190.8	0.00	0.00	Start 3° Drop
7,200.0	28.53	155.43	6,357.9	-2,925.8	1,337.7	3,217.1	3.00	-3.00	
7,300.0	25.53	155.43	6,447.0	-2,967.2	1,356.6	3,262.5	3.00	-3.00	
7,400.0	22.53	155.43	6,538.3	-3,004.2	1,373.5	3,303.2	3.00	-3.00	
7,500.0	19.53	155.43	6,631.7	-3,036.8	1,388.4	3,339.1	3.00	-3.00	
7,600.0	16.53	155.43	6,726.8	-3,065.0	1,401.3	3,370.0	3.00	-3.00	
7,700.0	13.53	155.43	6,823.3	-3,088.5	1,412.1	3,395.9	3.00	-3.00	
7,800.0	10.53	155.43	6,921.1	-3,107.5	1,420.7	3,416.8	3.00	-3.00	
7,900.0	7.53	155.43	7,019.9	-3,121.7	1,427.3	3,432.4	3.00	-3.00	
8,000.0	4.53	155.43	7,119.3	-3,131.3	1,431.6	3,442.9	3.00	-3.00	
8,100.0	1.53	155.43	7,219.2	-3,136.1	1,433.8	3,448.2	3.00	-3.00	
8,150.8	0.00	0.00	7,270.0	-3,136.7	1,434.1	3,448.9	3.00	-3.00	EOD @ Inc. = 0° - WILLIAMS FORK
8,200.0	0.01	236.19	7,319.2	-3,136.7	1,434.1	3,448.9	0.02	0.02	
8,300.0	0.03	236.19	7,419.2	-3,136.7	1,434.1	3,448.9	0.02	0.02	
8,400.0	0.05	236.19	7,519.2	-3,136.8	1,434.0	3,448.9	0.02	0.02	
8,500.0	0.08	236.19	7,619.2	-3,136.8	1,433.9	3,448.9	0.02	0.02	
8,600.0	0.10	236.19	7,719.2	-3,136.9	1,433.8	3,449.0	0.02	0.02	
8,700.0	0.12	236.19	7,819.2	-3,137.0	1,433.6	3,449.0	0.02	0.02	
8,800.0	0.14	236.19	7,919.2	-3,137.1	1,433.4	3,449.0	0.02	0.02	
8,900.0	0.16	236.19	8,019.2	-3,137.3	1,433.2	3,449.1	0.02	0.02	
9,000.0	0.19	236.19	8,119.1	-3,137.5	1,433.0	3,449.1	0.02	0.02	
9,100.0	0.21	236.19	8,219.1	-3,137.7	1,432.7	3,449.2	0.02	0.02	
9,200.0	0.23	236.19	8,319.1	-3,137.9	1,432.4	3,449.2	0.02	0.02	
9,300.0	0.25	236.19	8,419.1	-3,138.1	1,432.0	3,449.3	0.02	0.02	
9,400.0	0.27	236.19	8,519.1	-3,138.4	1,431.6	3,449.4	0.02	0.02	
9,500.0	0.29	236.19	8,619.1	-3,138.6	1,431.2	3,449.5	0.02	0.02	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF13E-03 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13E-03 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<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
9,600.0	0.32	236.19	8,719.1	-3,138.9	1,430.8	3,449.6	0.02	0.02	
9,700.0	0.34	236.19	8,819.1	-3,139.2	1,430.3	3,449.7	0.02	0.02	
9,800.0	0.36	236.19	8,919.1	-3,139.6	1,429.8	3,449.8	0.02	0.02	
9,897.7	0.38	236.19	9,016.8	-3,139.9	1,429.3	3,449.9	0.02	0.02	
9,900.0	0.38	236.19	9,019.1	-3,139.9	1,429.3	3,449.9	0.00	0.00	
10,000.0	0.38	236.19	9,119.1	-3,140.3	1,428.7	3,450.0	0.00	0.00	
10,100.0	0.38	236.19	9,219.1	-3,140.7	1,428.2	3,450.1	0.00	0.00	
10,200.0	0.38	236.19	9,319.1	-3,141.0	1,427.6	3,450.2	0.00	0.00	
10,300.0	0.38	236.19	9,419.1	-3,141.4	1,427.1	3,450.3	0.00	0.00	
10,400.0	0.38	236.19	9,519.1	-3,141.8	1,426.5	3,450.4	0.00	0.00	
10,500.0	0.38	236.19	9,619.1	-3,142.2	1,426.0	3,450.5	0.00	0.00	
10,600.0	0.38	236.19	9,719.1	-3,142.5	1,425.4	3,450.6	0.00	0.00	
10,700.0	0.38	236.19	9,819.1	-3,142.9	1,424.8	3,450.8	0.00	0.00	
10,800.0	0.38	236.19	9,919.1	-3,143.3	1,424.3	3,450.9	0.00	0.00	
10,900.0	0.38	236.19	10,019.1	-3,143.6	1,423.7	3,451.0	0.00	0.00	
11,000.0	0.38	236.19	10,119.1	-3,144.0	1,423.2	3,451.1	0.00	0.00	
11,100.0	0.38	236.19	10,219.1	-3,144.4	1,422.6	3,451.2	0.00	0.00	
11,200.0	0.38	236.19	10,319.1	-3,144.7	1,422.1	3,451.3	0.00	0.00	
11,300.0	0.38	236.19	10,419.1	-3,145.1	1,421.5	3,451.4	0.00	0.00	
11,400.0	0.38	236.19	10,519.1	-3,145.5	1,421.0	3,451.5	0.00	0.00	
11,500.0	0.38	236.19	10,619.1	-3,145.9	1,420.4	3,451.7	0.00	0.00	
11,600.0	0.38	236.19	10,719.1	-3,146.2	1,419.9	3,451.8	0.00	0.00	
11,700.0	0.38	236.19	10,819.1	-3,146.6	1,419.3	3,451.9	0.00	0.00	
11,735.9	0.38	236.19	10,855.0	-3,146.7	1,419.1	3,451.9	0.00	0.00	TD @ 11,735.9' MD - ROLLINS
11,800.0	0.38	236.19	10,919.1	-3,147.0	1,418.8	3,452.0	0.00	0.00	
11,900.0	0.38	236.19	11,019.1	-3,147.3	1,418.2	3,452.1	0.00	0.00	
11,978.9	0.38	236.19	11,098.0	-3,147.6	1,417.8	3,452.2	0.00	0.00	COZZETTE
12,000.0	0.38	236.19	11,119.1	-3,147.7	1,417.7	3,452.2	0.00	0.00	
12,100.0	0.38	236.19	11,219.1	-3,148.1	1,417.1	3,452.3	0.00	0.00	
12,154.9	0.38	236.19	11,274.0	-3,148.3	1,416.8	3,452.4	0.00	0.00	CORCORAN
12,200.0	0.38	236.19	11,319.1	-3,148.4	1,416.6	3,452.4	0.00	0.00	
12,300.0	0.38	236.19	11,419.1	-3,148.8	1,416.0	3,452.5	0.00	0.00	
12,400.0	0.38	236.19	11,519.1	-3,149.2	1,415.5	3,452.7	0.00	0.00	
12,449.9	0.38	236.19	11,569.0	-3,149.4	1,415.2	3,452.7	0.00	0.00	UPPER SEGO
12,500.0	0.38	236.19	11,619.1	-3,149.5	1,414.9	3,452.8	0.00	0.00	
12,600.0	0.38	236.19	11,719.1	-3,149.9	1,414.4	3,452.9	0.00	0.00	
12,700.0	0.38	236.19	11,819.1	-3,150.3	1,413.8	3,453.0	0.00	0.00	
12,800.0	0.38	236.19	11,919.1	-3,150.7	1,413.3	3,453.1	0.00	0.00	
12,900.0	0.38	236.19	12,019.1	-3,151.0	1,412.7	3,453.2	0.00	0.00	
13,000.0	0.38	236.19	12,119.1	-3,151.4	1,412.2	3,453.3	0.00	0.00	Permit TD @ 13,000' MD

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF13E-03 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	WELL @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13E-03 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #1		

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									
UWF13E-03 BHL - plan hits target center - Point	0.00	0.00	10,855.0	-3,146.7	1,419.1	1,667,890.55	2,250,946.87	39° 38' 13.34 N	108° 9' 36.20 W
UWF13E-03 TGT - plan hits target center - Point	0.00	0.00	7,270.0	-3,136.7	1,434.1	1,667,900.13	2,250,962.12	39° 38' 13.44 N	108° 9' 36.01 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,082.7	1,061.0	A GROOVE				
1,262.2	1,222.0	B GROOVE				
1,308.2	1,262.0	B GROOVE BASE				
2,237.8	2,066.0	GARDEN GULCH				
3,475.0	3,136.0	WASATCH FM				
5,880.0	5,216.0	WASATCH G				
8,150.8	7,270.0	WILLIAMS FORK				
11,735.9	10,855.0	ROLLINS				
11,978.9	11,098.0	COZZETTE				
12,154.9	11,274.0	CORCORAN				
12,449.9	11,569.0	UPPER SEGO				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
		(ft)	(ft)		
300.0	300.0	0.0	0.0	KOP @ 300'	
1,304.5	1,258.8	-234.7	107.3	EOB @ Inc. = 30.13°	
7,146.4	6,311.2	-2,902.0	1,326.8	Start 3° Drop	
8,150.8	7,270.0	-3,136.7	1,434.1	EOD @ Inc. = 0°	
11,735.9	10,855.0	-3,146.7	1,419.1	TD @ 11,735.9' MD	
13,000.0	12,119.1	-3,151.4	1,412.2	Permit TD @ 13,000' MD	