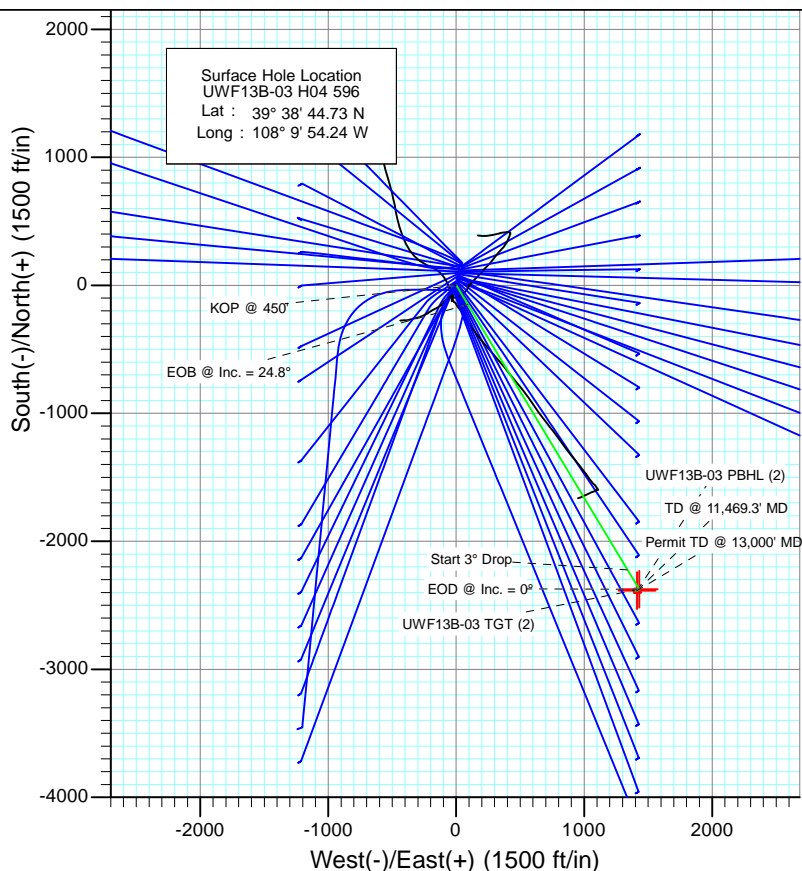


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.0	
3	1276.8	24.80	148.95	1251.2	-150.9	90.9	3.00	148.95	176.2	
4	7044.4	24.80	148.95	6486.8	-2223.9	1338.9	0.00	0.00	2595.6	
5	7871.2	0.00	0.00	7288.0	-2374.8	1429.8	3.00	180.00	2771.8	UWF13B-03 TGT (2)
6	9879.8	0.44	239.44	9296.5	-2378.7	1423.2	0.02	239.44	2771.8	
7	11469.3	0.44	239.44	10886.0	-2384.8	1412.8	0.00	0.00	2771.9	UWF13B-03 PBHL (2)
8	13000.0	0.44	239.44	12416.6	-2390.7	1402.8	0.00	0.00	2771.9	



Azimuths to True North  
Magnetic North: 10.34°

Magnetic Field  
Strength: 52205.7nT  
Dip Angle: 65.81°  
Date: 4/19/2012  
Model: IGRF2010

#### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1069.0	1080.4	A GROOVE
1228.0	1251.3	B GROOVE
1268.0	1295.3	B GROOVE BASE
2085.0	2195.3	GARDEN GULCH
3145.0	3363.0	WASATCH FM
5237.0	5667.7	WASATCH G
7288.0	7871.2	WILLIAMS FORK
10886.0	11469.3	ROLLINS
11128.0	11711.3	COZZETTE
11302.0	11885.3	CORCORAN
11597.0	12180.3	UPPER SEGO

Plan #2						
UWF13B-03 H04 596						
WELL @ 8293.0ft (Original Well Elev)						
North American Datum 1983						
Well UWF13B-03 H04 596, True North						
Type	Target	Azimuth	Origin	Type	N/S	E/W
TD	No Target (Freehand)	149.60	Slot		0.0	0.0
Name		TVD	+N/-S	+E/-W	Latitude	Longitude
UWF13B-03 TGT (2)		7288.0	-2374.8	1429.8	39° 38' 21.26 N	108° 9' 35.96 W
UWF13B-03 PBHL (2)		10886.0	-2384.8	1412.8	39° 38' 21.16 N	108° 9' 36.18 W

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF13B-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 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13B-03 H04 596	<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		

Site	H04 596 Pad				
Site Position:		Northing:	1,671,070.85 ft	Latitude:	39° 38' 44.37 N
From:	Lat/Long	Easting:	2,249,607.93 ft	Longitude:	108° 9' 54.50 W
Position Uncertainty:	0.0 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.68 °

Well	UWF13B-03 H04 596					
Well Position	+N/-S	0.0 ft	Northing:	1,671,106.65 ft	Latitude:	39° 38' 44.73 N
	+E/-W	0.0 ft	Easting:	2,249,629.33 ft	Longitude:	108° 9' 54.24 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	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 (nT)</b>
	IGRF2010	4/19/2012	10.34	65.81	52,206

<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	149.60	

<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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,276.8	24.80	148.95	1,251.2	-150.9	90.9	3.00	3.00	0.00	148.95	
7,044.4	24.80	148.95	6,486.8	-2,223.9	1,338.9	0.00	0.00	0.00	0.00	
7,871.2	0.00	0.00	7,288.0	-2,374.8	1,429.8	3.00	-3.00	0.00	180.00	UWF13B-03 TGT (2)
9,879.8	0.44	239.44	9,296.5	-2,378.7	1,423.2	0.02	0.02	-6.00	239.44	
11,469.3	0.44	239.44	10,886.0	-2,384.8	1,412.8	0.00	0.00	0.00	0.00	UWF13B-03 PBHL (2)
13,000.0	0.44	239.44	12,416.6	-2,390.7	1,402.8	0.00	0.00	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 UWF13B-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 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13B-03 H04 596	<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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	KOP @ 450'
500.0	1.50	148.95	500.0	-0.6	0.3	0.7	3.00	3.00	
600.0	4.50	148.95	599.8	-5.0	3.0	5.9	3.00	3.00	
700.0	7.50	148.95	699.3	-14.0	8.4	16.3	3.00	3.00	
800.0	10.50	148.95	798.0	-27.4	16.5	32.0	3.00	3.00	
900.0	13.50	148.95	895.8	-45.2	27.2	52.8	3.00	3.00	
1,000.0	16.50	148.95	992.4	-67.4	40.6	78.6	3.00	3.00	
1,080.4	18.91	148.95	1,069.0	-88.3	53.2	103.1	3.00	3.00	A GROOVE
1,100.0	19.50	148.95	1,087.5	-93.8	56.5	109.5	3.00	3.00	
1,200.0	22.50	148.95	1,180.9	-124.5	75.0	145.4	3.00	3.00	
1,251.3	24.04	148.95	1,228.0	-141.9	85.4	165.6	3.00	3.00	B GROOVE
1,276.8	24.80	148.95	1,251.2	-150.9	90.9	176.2	3.00	3.00	EOB @ Inc. = 24.8°
1,295.3	24.80	148.95	1,268.0	-157.6	94.9	183.9	0.00	0.00	B GROOVE BASE
1,300.0	24.80	148.95	1,272.3	-159.3	95.9	185.9	0.00	0.00	
1,400.0	24.80	148.95	1,363.0	-195.2	117.5	227.9	0.00	0.00	
1,500.0	24.80	148.95	1,453.8	-231.2	139.2	269.8	0.00	0.00	
1,600.0	24.80	148.95	1,544.6	-267.1	160.8	311.8	0.00	0.00	
1,700.0	24.80	148.95	1,635.4	-303.0	182.5	353.7	0.00	0.00	
1,800.0	24.80	148.95	1,726.1	-339.0	204.1	395.7	0.00	0.00	
1,900.0	24.80	148.95	1,816.9	-374.9	225.7	437.6	0.00	0.00	
2,000.0	24.80	148.95	1,907.7	-410.9	247.4	479.6	0.00	0.00	
2,100.0	24.80	148.95	1,998.5	-446.8	269.0	521.5	0.00	0.00	
2,195.3	24.80	148.95	2,085.0	-481.1	289.6	561.5	0.00	0.00	GARDEN GULCH
2,200.0	24.80	148.95	2,089.2	-482.7	290.6	563.5	0.00	0.00	
2,300.0	24.80	148.95	2,180.0	-518.7	312.3	605.4	0.00	0.00	
2,400.0	24.80	148.95	2,270.8	-554.6	333.9	647.3	0.00	0.00	
2,500.0	24.80	148.95	2,361.6	-590.6	355.6	689.3	0.00	0.00	
2,600.0	24.80	148.95	2,452.3	-626.5	377.2	731.2	0.00	0.00	
2,700.0	24.80	148.95	2,543.1	-662.4	398.8	773.2	0.00	0.00	
2,800.0	24.80	148.95	2,633.9	-698.4	420.5	815.1	0.00	0.00	
2,900.0	24.80	148.95	2,724.7	-734.3	442.1	857.1	0.00	0.00	
3,000.0	24.80	148.95	2,815.4	-770.3	463.8	899.0	0.00	0.00	
3,100.0	24.80	148.95	2,906.2	-806.2	485.4	941.0	0.00	0.00	
3,200.0	24.80	148.95	2,997.0	-842.1	507.0	982.9	0.00	0.00	
3,300.0	24.80	148.95	3,087.8	-878.1	528.7	1,024.9	0.00	0.00	
3,363.0	24.80	148.95	3,145.0	-900.7	542.3	1,051.3	0.00	0.00	WASATCH FM
3,400.0	24.80	148.95	3,178.5	-914.0	550.3	1,066.8	0.00	0.00	
3,500.0	24.80	148.95	3,269.3	-950.0	571.9	1,108.8	0.00	0.00	
3,600.0	24.80	148.95	3,360.1	-985.9	593.6	1,150.7	0.00	0.00	
3,700.0	24.80	148.95	3,450.9	-1,021.8	615.2	1,192.7	0.00	0.00	
3,800.0	24.80	148.95	3,541.6	-1,057.8	636.9	1,234.6	0.00	0.00	
3,900.0	24.80	148.95	3,632.4	-1,093.7	658.5	1,276.6	0.00	0.00	
4,000.0	24.80	148.95	3,723.2	-1,129.7	680.1	1,318.5	0.00	0.00	
4,100.0	24.80	148.95	3,814.0	-1,165.6	701.8	1,360.5	0.00	0.00	
4,200.0	24.80	148.95	3,904.7	-1,201.6	723.4	1,402.4	0.00	0.00	
4,300.0	24.80	148.95	3,995.5	-1,237.5	745.1	1,444.4	0.00	0.00	
4,400.0	24.80	148.95	4,086.3	-1,273.4	766.7	1,486.3	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 UWF13B-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 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13B-03 H04 596	<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
4,500.0	24.80	148.95	4,177.1	-1,309.4	788.3	1,528.3	0.00	0.00	
4,600.0	24.80	148.95	4,267.8	-1,345.3	810.0	1,570.2	0.00	0.00	
4,700.0	24.80	148.95	4,358.6	-1,381.3	831.6	1,612.2	0.00	0.00	
4,800.0	24.80	148.95	4,449.4	-1,417.2	853.3	1,654.1	0.00	0.00	
4,900.0	24.80	148.95	4,540.2	-1,453.1	874.9	1,696.1	0.00	0.00	
5,000.0	24.80	148.95	4,630.9	-1,489.1	896.5	1,738.0	0.00	0.00	
5,100.0	24.80	148.95	4,721.7	-1,525.0	918.2	1,780.0	0.00	0.00	
5,200.0	24.80	148.95	4,812.5	-1,561.0	939.8	1,821.9	0.00	0.00	
5,300.0	24.80	148.95	4,903.3	-1,596.9	961.4	1,863.9	0.00	0.00	
5,400.0	24.80	148.95	4,994.0	-1,632.8	983.1	1,905.8	0.00	0.00	
5,500.0	24.80	148.95	5,084.8	-1,668.8	1,004.7	1,947.8	0.00	0.00	
5,600.0	24.80	148.95	5,175.6	-1,704.7	1,026.4	1,989.7	0.00	0.00	
5,667.7	24.80	148.95	5,237.0	-1,729.0	1,041.0	2,018.1	0.00	0.00	WASATCH G
5,700.0	24.80	148.95	5,266.4	-1,740.7	1,048.0	2,031.7	0.00	0.00	
5,800.0	24.80	148.95	5,357.1	-1,776.6	1,069.6	2,073.6	0.00	0.00	
5,900.0	24.80	148.95	5,447.9	-1,812.5	1,091.3	2,115.6	0.00	0.00	
6,000.0	24.80	148.95	5,538.7	-1,848.5	1,112.9	2,157.5	0.00	0.00	
6,100.0	24.80	148.95	5,629.5	-1,884.4	1,134.6	2,199.5	0.00	0.00	
6,200.0	24.80	148.95	5,720.2	-1,920.4	1,156.2	2,241.4	0.00	0.00	
6,300.0	24.80	148.95	5,811.0	-1,956.3	1,177.8	2,283.4	0.00	0.00	
6,400.0	24.80	148.95	5,901.8	-1,992.2	1,199.5	2,325.3	0.00	0.00	
6,500.0	24.80	148.95	5,992.6	-2,028.2	1,221.1	2,367.3	0.00	0.00	
6,600.0	24.80	148.95	6,083.3	-2,064.1	1,242.7	2,409.2	0.00	0.00	
6,700.0	24.80	148.95	6,174.1	-2,100.1	1,264.4	2,451.2	0.00	0.00	
6,800.0	24.80	148.95	6,264.9	-2,136.0	1,286.0	2,493.1	0.00	0.00	
6,900.0	24.80	148.95	6,355.7	-2,171.9	1,307.7	2,535.1	0.00	0.00	
7,000.0	24.80	148.95	6,446.4	-2,207.9	1,329.3	2,577.0	0.00	0.00	
7,044.4	24.80	148.95	6,486.8	-2,223.9	1,338.9	2,595.6	0.00	0.00	Start 3° Drop
7,100.0	23.14	148.95	6,537.5	-2,243.2	1,350.6	2,618.2	3.00	-3.00	
7,200.0	20.14	148.95	6,630.5	-2,274.8	1,369.6	2,655.1	3.00	-3.00	
7,300.0	17.14	148.95	6,725.2	-2,302.2	1,386.1	2,687.0	3.00	-3.00	
7,400.0	14.14	148.95	6,821.5	-2,325.2	1,400.0	2,714.0	3.00	-3.00	
7,500.0	11.14	148.95	6,919.1	-2,344.0	1,411.2	2,735.9	3.00	-3.00	
7,600.0	8.14	148.95	7,017.7	-2,358.3	1,419.9	2,752.6	3.00	-3.00	
7,700.0	5.14	148.95	7,117.0	-2,368.2	1,425.8	2,764.2	3.00	-3.00	
7,800.0	2.14	148.95	7,216.8	-2,373.7	1,429.1	2,770.5	3.00	-3.00	
7,871.2	0.00	0.00	7,288.0	-2,374.8	1,429.8	2,771.8	3.00	-3.00	EOD @ Inc. = 0° - WILLIAMS FORK
7,900.0	0.01	239.44	7,316.8	-2,374.8	1,429.8	2,771.8	0.02	0.02	
8,000.0	0.03	239.44	7,416.8	-2,374.8	1,429.8	2,771.8	0.02	0.02	
8,100.0	0.05	239.44	7,516.8	-2,374.9	1,429.7	2,771.8	0.02	0.02	
8,200.0	0.07	239.44	7,616.8	-2,374.9	1,429.6	2,771.8	0.02	0.02	
8,300.0	0.09	239.44	7,716.8	-2,375.0	1,429.5	2,771.8	0.02	0.02	
8,400.0	0.11	239.44	7,816.8	-2,375.1	1,429.3	2,771.8	0.02	0.02	
8,500.0	0.14	239.44	7,916.7	-2,375.2	1,429.2	2,771.8	0.02	0.02	
8,600.0	0.16	239.44	8,016.7	-2,375.3	1,428.9	2,771.8	0.02	0.02	
8,700.0	0.18	239.44	8,116.7	-2,375.5	1,428.7	2,771.8	0.02	0.02	
8,800.0	0.20	239.44	8,216.7	-2,375.6	1,428.4	2,771.8	0.02	0.02	
8,900.0	0.22	239.44	8,316.7	-2,375.8	1,428.1	2,771.8	0.02	0.02	
9,000.0	0.24	239.44	8,416.7	-2,376.0	1,427.7	2,771.8	0.02	0.02	
9,100.0	0.27	239.44	8,516.7	-2,376.3	1,427.3	2,771.8	0.02	0.02	
9,200.0	0.29	239.44	8,616.7	-2,376.5	1,426.9	2,771.8	0.02	0.02	
9,300.0	0.31	239.44	8,716.7	-2,376.8	1,426.5	2,771.8	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 UWF13B-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 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13B-03 H04 596	<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
9,400.0	0.33	239.44	8,816.7	-2,377.0	1,426.0	2,771.8	0.02	0.02	
9,500.0	0.35	239.44	8,916.7	-2,377.4	1,425.5	2,771.8	0.02	0.02	
9,600.0	0.37	239.44	9,016.7	-2,377.7	1,424.9	2,771.8	0.02	0.02	
9,700.0	0.40	239.44	9,116.7	-2,378.0	1,424.4	2,771.8	0.02	0.02	
9,800.0	0.42	239.44	9,216.7	-2,378.4	1,423.7	2,771.8	0.02	0.02	
9,879.8	0.44	239.44	9,296.5	-2,378.7	1,423.2	2,771.8	0.02	0.02	
9,900.0	0.44	239.44	9,316.7	-2,378.8	1,423.1	2,771.8	0.00	0.00	
10,000.0	0.44	239.44	9,416.7	-2,379.1	1,422.4	2,771.8	0.00	0.00	
10,100.0	0.44	239.44	9,516.7	-2,379.5	1,421.8	2,771.9	0.00	0.00	
10,200.0	0.44	239.44	9,616.7	-2,379.9	1,421.1	2,771.9	0.00	0.00	
10,300.0	0.44	239.44	9,716.7	-2,380.3	1,420.5	2,771.9	0.00	0.00	
10,400.0	0.44	239.44	9,816.7	-2,380.7	1,419.8	2,771.9	0.00	0.00	
10,500.0	0.44	239.44	9,916.7	-2,381.1	1,419.2	2,771.9	0.00	0.00	
10,600.0	0.44	239.44	10,016.7	-2,381.5	1,418.5	2,771.9	0.00	0.00	
10,700.0	0.44	239.44	10,116.7	-2,381.8	1,417.9	2,771.9	0.00	0.00	
10,800.0	0.44	239.44	10,216.7	-2,382.2	1,417.2	2,771.9	0.00	0.00	
10,900.0	0.44	239.44	10,316.7	-2,382.6	1,416.6	2,771.9	0.00	0.00	
11,000.0	0.44	239.44	10,416.7	-2,383.0	1,415.9	2,771.9	0.00	0.00	
11,100.0	0.44	239.44	10,516.7	-2,383.4	1,415.2	2,771.9	0.00	0.00	
11,200.0	0.44	239.44	10,616.7	-2,383.8	1,414.6	2,771.9	0.00	0.00	
11,300.0	0.44	239.44	10,716.7	-2,384.2	1,413.9	2,771.9	0.00	0.00	
11,400.0	0.44	239.44	10,816.7	-2,384.6	1,413.3	2,771.9	0.00	0.00	
11,469.3	0.44	239.44	10,886.0	-2,384.8	1,412.8	2,771.9	0.00	0.00	TD @ 11,469.3' MD - ROLLINS
11,500.0	0.44	239.44	10,916.7	-2,384.9	1,412.6	2,771.9	0.00	0.00	
11,600.0	0.44	239.44	11,016.7	-2,385.3	1,412.0	2,771.9	0.00	0.00	
11,700.0	0.44	239.44	11,116.7	-2,385.7	1,411.3	2,771.9	0.00	0.00	
11,711.3	0.44	239.44	11,128.0	-2,385.8	1,411.2	2,771.9	0.00	0.00	COZZETTE
11,800.0	0.44	239.44	11,216.7	-2,386.1	1,410.7	2,771.9	0.00	0.00	
11,885.3	0.44	239.44	11,302.0	-2,386.4	1,410.1	2,771.9	0.00	0.00	CORCORAN
11,900.0	0.44	239.44	11,316.7	-2,386.5	1,410.0	2,771.9	0.00	0.00	
12,000.0	0.44	239.44	11,416.7	-2,386.9	1,409.4	2,771.9	0.00	0.00	
12,100.0	0.44	239.44	11,516.7	-2,387.3	1,408.7	2,771.9	0.00	0.00	
12,180.3	0.44	239.44	11,597.0	-2,387.6	1,408.2	2,771.9	0.00	0.00	UPPER SEGO
12,200.0	0.44	239.44	11,616.7	-2,387.6	1,408.0	2,771.9	0.00	0.00	
12,300.0	0.44	239.44	11,716.7	-2,388.0	1,407.4	2,771.9	0.00	0.00	
12,400.0	0.44	239.44	11,816.7	-2,388.4	1,406.7	2,771.9	0.00	0.00	
12,500.0	0.44	239.44	11,916.7	-2,388.8	1,406.1	2,771.9	0.00	0.00	
12,600.0	0.44	239.44	12,016.7	-2,389.2	1,405.4	2,771.9	0.00	0.00	
12,700.0	0.44	239.44	12,116.6	-2,389.6	1,404.8	2,771.9	0.00	0.00	
12,800.0	0.44	239.44	12,216.6	-2,390.0	1,404.1	2,771.9	0.00	0.00	
12,900.0	0.44	239.44	12,316.6	-2,390.3	1,403.5	2,771.9	0.00	0.00	
13,000.0	0.44	239.44	12,416.6	-2,390.7	1,402.8	2,771.9	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 UWF13B-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 596 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF13B-03 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	Plan #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
UWF13B-03 TGT	0.00	0.00	7,288.0	-2,384.8	1,412.8	1,668,681.41	2,250,971.59	39° 38' 21.16 N	108° 9' 36.18 W
- plan misses target center by 19.7ft at 7871.2ft MD (7288.0 TVD, -2374.8 N, 1429.8 E)									
- Point									
UWF13B-03 TGT (2)	0.00	0.00	7,288.0	-2,374.8	1,429.8	1,668,690.93	2,250,988.85	39° 38' 21.26 N	108° 9' 35.96 W
- plan hits target center									
- Point									
UWF13B-03 BHL	0.00	0.00	10,886.0	-2,374.8	1,427.8	1,668,690.99	2,250,986.85	39° 38' 21.26 N	108° 9' 35.99 W
- plan misses target center by 18.0ft at 11469.2ft MD (10885.9 TVD, -2384.8 N, 1412.8 E)									
- Rectangle (sides W30.0 H50.0 D0.0)									
UWF13B-03 PBHL (2)	0.00	0.00	10,886.0	-2,384.8	1,412.8	1,668,681.41	2,250,971.59	39° 38' 21.16 N	108° 9' 36.18 W
- plan hits target center									
- Rectangle (sides W30.0 H50.0 D0.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,080.4	1,069.0	A GROOVE				
1,251.3	1,228.0	B GROOVE				
1,295.3	1,268.0	B GROOVE BASE				
2,195.3	2,085.0	GARDEN GULCH				
3,363.0	3,145.0	WASATCH FM				
5,667.7	5,237.0	WASATCH G				
7,871.2	7,288.0	WILLIAMS FORK				
11,469.3	10,886.0	ROLLINS				
11,711.3	11,128.0	COZZETTE				
11,885.3	11,302.0	CORCORAN				
12,180.3	11,597.0	UPPER SEGO				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)		
450.0	450.0	0.0	0.0	KOP @ 450'	
1,276.8	1,251.2	-150.9	90.9	EOB @ Inc. = 24.8°	
7,044.4	6,486.8	-2,223.9	1,338.9	Start 3° Drop	
7,871.2	7,288.0	-2,374.8	1,429.8	EOD @ Inc. = 0°	
11,469.3	10,886.0	-2,384.8	1,412.8	TD @ 11,469.3' MD	
13,000.0	12,416.6	-2,390.7	1,402.8	Permit TD @ 13,000' MD	