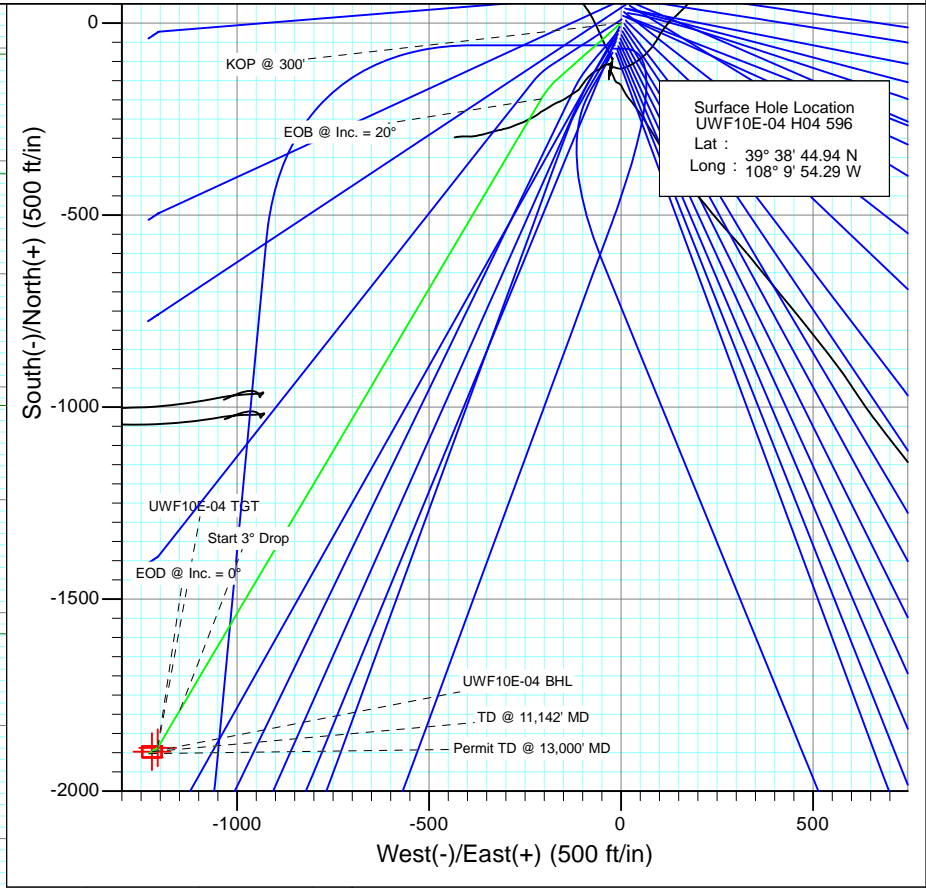


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	966.7	20.00	228.60	953.2	-76.2	-86.4	3.00	228.60	110.9	
4	1266.7	20.00	228.60	1235.1	-144.0	-163.4	0.00	0.00	209.6	
5	1471.3	20.00	210.58	1427.6	-197.4	-207.5	3.00	-98.47	278.3	
6	6873.3	20.00	210.58	6503.8	-1787.9	-1147.5	0.00	0.00	2124.5	
7	7540.0	0.00	0.00	7157.0	-1887.1	-1206.1	3.00	180.00	2239.6	
8	7570.0	0.00	0.00	7187.0	-1887.1	-1206.1	0.00	0.00	2239.6	UWF10E-04 TGT
9	7718.0	0.30	236.30	7335.1	-1887.3	-1206.4	0.20	236.30	2239.9	
10	11142.0	0.30	236.30	10759.0	-1897.1	-1221.1	0.00	0.00	2256.2	UWF10E-04 BHL
11	13000.0	0.30	236.30	12617.0	-1902.5	-1229.1	0.00	0.00	2265.0	



Azimuths to True North  
 Magnetic North: 10.34°  
 Magnetic Field  
 Strength: 52205.7snT  
 Dip Angle: 65.81°  
 Date: 4/19/2012  
 Model: IGRF2010

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1058.0	1078.2	A GROOVE
1219.0	1249.5	B GROOVE
1259.0	1292.1	B GROOVE BASE
2054.0	2137.9	GARDEN GULCH
3114.0	3265.9	WASATCH FM
5166.0	5449.6	WASATCH G
7187.0	7570.0	WILLIAMS FORK
10759.0	11142.0	ROLLINS
11006.0	11389.0	COZZETTE
11169.0	11552.0	CORCORAN
11463.0	11846.0	UPPER SEGO

Plan #1 UWF10E-04 H04 596 WELL @ 8293.0ft (Original Well Elev) North American Datum 1983 Well UWF10E-04 H04 596, True North						
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	212.87	Slot	0.0	0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
UWF10E-04 TGT	7187.0	-1887.1	-1206.1	39° 38' 26.29 N	108° 10' 9.71 W	
UWF10E-04 BHL	10759.0	-1897.1	-1221.1	39° 38' 26.19 N	108° 10' 9.90 W	

# Cathedral Energy Services

## Planning Report

<b>Database:</b> USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b> Well UWF10E-04 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> UWF10E-04 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> UWF10E-04 H04 596					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,671,128.00 ft	<b>Latitude:</b> 39° 38' 44.94 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,249,626.04 ft	<b>Longitude:</b> 108° 9' 54.29 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	(°) 10.34	(°) 65.81	(nT) 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	212.87

<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	
966.7	20.00	228.60	953.2	-76.2	-86.4	3.00	3.00	0.00	228.60	
1,266.7	20.00	228.60	1,235.1	-144.0	-163.4	0.00	0.00	0.00	0.00	
1,471.3	20.00	210.58	1,427.6	-197.4	-207.5	3.00	0.00	-8.80	-98.47	
6,873.3	20.00	210.58	6,503.8	-1,787.9	-1,147.5	0.00	0.00	0.00	0.00	
7,540.0	0.00	0.00	7,157.0	-1,887.1	-1,206.1	3.00	-3.00	0.00	180.00	
7,570.0	0.00	0.00	7,187.0	-1,887.1	-1,206.1	0.00	0.00	0.00	0.00	UWF10E-04 TGT
7,718.0	0.30	236.30	7,335.1	-1,887.3	-1,206.4	0.20	0.20	-83.54	236.30	
11,142.0	0.30	236.30	10,759.0	-1,897.1	-1,221.1	0.00	0.00	0.00	0.00	UWF10E-04 BHL
13,000.0	0.30	236.30	12,617.0	-1,902.5	-1,229.1	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 UWF10E-04 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>	UWF10E-04 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
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	228.60	400.0	-1.7	-2.0	2.5	3.00	3.00	
500.0	6.00	228.60	499.6	-6.9	-7.8	10.1	3.00	3.00	
600.0	9.00	228.60	598.8	-15.5	-17.6	22.6	3.00	3.00	
700.0	12.00	228.60	697.1	-27.6	-31.3	40.2	3.00	3.00	
800.0	15.00	228.60	794.3	-43.0	-48.8	62.6	3.00	3.00	
900.0	18.00	228.60	890.2	-61.8	-70.1	90.0	3.00	3.00	
966.7	20.00	228.60	953.2	-76.2	-86.4	110.9	3.00	3.00	
1,000.0	20.00	228.60	984.5	-83.7	-94.9	121.8	0.00	0.00	
1,078.2	20.00	228.60	1,058.0	-101.4	-115.0	147.6	0.00	0.00	A GROOVE
1,100.0	20.00	228.60	1,078.5	-106.3	-120.6	154.8	0.00	0.00	
1,200.0	20.00	228.60	1,172.5	-128.9	-146.3	187.7	0.00	0.00	
1,249.5	20.00	228.60	1,219.0	-140.1	-159.0	204.0	0.00	0.00	B GROOVE
1,266.7	20.00	228.60	1,235.1	-144.0	-163.4	209.6	0.00	0.00	
1,292.1	19.90	226.38	1,259.0	-149.9	-169.8	218.0	3.00	-0.39	B GROOVE BASE
1,300.0	19.88	225.69	1,266.5	-151.8	-171.7	220.6	3.00	-0.32	
1,400.0	19.79	216.84	1,360.5	-177.2	-194.0	254.1	3.00	-0.08	
1,471.3	20.00	210.59	1,427.6	-197.3	-207.5	278.3	3.00	0.29	EOB @ Inc. = 20°
1,500.0	20.00	210.58	1,454.6	-205.8	-212.5	288.1	0.00	0.00	
1,600.0	20.00	210.58	1,548.5	-235.2	-229.9	322.3	0.00	0.00	
1,700.0	20.00	210.58	1,642.5	-264.7	-247.3	356.5	0.00	0.00	
1,800.0	20.00	210.58	1,736.5	-294.1	-264.7	390.7	0.00	0.00	
1,900.0	20.00	210.58	1,830.4	-323.6	-282.1	424.8	0.00	0.00	
2,000.0	20.00	210.58	1,924.4	-353.0	-299.5	459.0	0.00	0.00	
2,100.0	20.00	210.58	2,018.4	-382.5	-316.9	493.2	0.00	0.00	
2,137.9	20.00	210.58	2,054.0	-393.6	-323.5	506.2	0.00	0.00	GARDEN GULCH
2,200.0	20.00	210.58	2,112.3	-411.9	-334.3	527.4	0.00	0.00	
2,300.0	20.00	210.58	2,206.3	-441.4	-351.7	561.6	0.00	0.00	
2,400.0	20.00	210.58	2,300.3	-470.8	-369.1	595.7	0.00	0.00	
2,500.0	20.00	210.58	2,394.3	-500.2	-386.5	629.9	0.00	0.00	
2,600.0	20.00	210.58	2,488.2	-529.7	-403.9	664.1	0.00	0.00	
2,700.0	20.00	210.58	2,582.2	-559.1	-421.3	698.3	0.00	0.00	
2,800.0	20.00	210.58	2,676.2	-588.6	-438.7	732.4	0.00	0.00	
2,900.0	20.00	210.58	2,770.1	-618.0	-456.1	766.6	0.00	0.00	
3,000.0	20.00	210.58	2,864.1	-647.5	-473.5	800.8	0.00	0.00	
3,100.0	20.00	210.58	2,958.1	-676.9	-490.9	835.0	0.00	0.00	
3,200.0	20.00	210.58	3,052.0	-706.4	-508.3	869.1	0.00	0.00	
3,265.9	20.00	210.58	3,114.0	-725.8	-519.8	891.7	0.00	0.00	WASATCH FM
3,300.0	20.00	210.58	3,146.0	-735.8	-525.7	903.3	0.00	0.00	
3,400.0	20.00	210.58	3,240.0	-765.2	-543.1	937.5	0.00	0.00	
3,500.0	20.00	210.58	3,333.9	-794.7	-560.5	971.7	0.00	0.00	
3,600.0	20.00	210.58	3,427.9	-824.1	-577.9	1,005.8	0.00	0.00	
3,700.0	20.00	210.58	3,521.9	-853.6	-595.3	1,040.0	0.00	0.00	
3,800.0	20.00	210.58	3,615.9	-883.0	-612.7	1,074.2	0.00	0.00	
3,900.0	20.00	210.58	3,709.8	-912.5	-630.1	1,108.4	0.00	0.00	
4,000.0	20.00	210.58	3,803.8	-941.9	-647.5	1,142.5	0.00	0.00	
4,100.0	20.00	210.58	3,897.8	-971.4	-664.9	1,176.7	0.00	0.00	
4,200.0	20.00	210.58	3,991.7	-1,000.8	-682.3	1,210.9	0.00	0.00	
4,300.0	20.00	210.58	4,085.7	-1,030.2	-699.7	1,245.1	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 UWF10E-04 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>	UWF10E-04 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
4,400.0	20.00	210.58	4,179.7	-1,059.7	-717.1	1,279.2	0.00	0.00	
4,500.0	20.00	210.58	4,273.6	-1,089.1	-734.5	1,313.4	0.00	0.00	
4,600.0	20.00	210.58	4,367.6	-1,118.6	-751.9	1,347.6	0.00	0.00	
4,700.0	20.00	210.58	4,461.6	-1,148.0	-769.3	1,381.8	0.00	0.00	
4,800.0	20.00	210.58	4,555.5	-1,177.5	-786.7	1,415.9	0.00	0.00	
4,900.0	20.00	210.58	4,649.5	-1,206.9	-804.1	1,450.1	0.00	0.00	
5,000.0	20.00	210.58	4,743.5	-1,236.4	-821.5	1,484.3	0.00	0.00	
5,100.0	20.00	210.58	4,837.5	-1,265.8	-838.9	1,518.5	0.00	0.00	
5,200.0	20.00	210.58	4,931.4	-1,295.2	-856.3	1,552.6	0.00	0.00	
5,300.0	20.00	210.58	5,025.4	-1,324.7	-873.7	1,586.8	0.00	0.00	
5,400.0	20.00	210.58	5,119.4	-1,354.1	-891.1	1,621.0	0.00	0.00	
5,449.6	20.00	210.58	5,166.0	-1,368.8	-899.8	1,637.9	0.00	0.00	WASATCH G
5,500.0	20.00	210.58	5,213.3	-1,383.6	-908.5	1,655.2	0.00	0.00	
5,600.0	20.00	210.58	5,307.3	-1,413.0	-925.9	1,689.3	0.00	0.00	
5,700.0	20.00	210.58	5,401.3	-1,442.5	-943.3	1,723.5	0.00	0.00	
5,800.0	20.00	210.58	5,495.2	-1,471.9	-960.7	1,757.7	0.00	0.00	
5,900.0	20.00	210.58	5,589.2	-1,501.4	-978.1	1,791.9	0.00	0.00	
6,000.0	20.00	210.58	5,683.2	-1,530.8	-995.5	1,826.0	0.00	0.00	
6,100.0	20.00	210.58	5,777.1	-1,560.2	-1,012.9	1,860.2	0.00	0.00	
6,200.0	20.00	210.58	5,871.1	-1,589.7	-1,030.3	1,894.4	0.00	0.00	
6,300.0	20.00	210.58	5,965.1	-1,619.1	-1,047.7	1,928.6	0.00	0.00	
6,400.0	20.00	210.58	6,059.0	-1,648.6	-1,065.1	1,962.7	0.00	0.00	
6,500.0	20.00	210.58	6,153.0	-1,678.0	-1,082.5	1,996.9	0.00	0.00	
6,600.0	20.00	210.58	6,247.0	-1,707.5	-1,099.9	2,031.1	0.00	0.00	
6,700.0	20.00	210.58	6,341.0	-1,736.9	-1,117.3	2,065.3	0.00	0.00	
6,800.0	20.00	210.58	6,434.9	-1,766.4	-1,134.7	2,099.4	0.00	0.00	
6,873.3	20.00	210.58	6,503.8	-1,787.9	-1,147.5	2,124.5	0.00	0.00	Start 3° Drop
6,900.0	19.20	210.58	6,529.0	-1,795.7	-1,152.1	2,133.4	3.00	-3.00	
7,000.0	16.20	210.58	6,624.2	-1,821.8	-1,167.5	2,163.8	3.00	-3.00	
7,100.0	13.20	210.58	6,720.9	-1,843.7	-1,180.4	2,189.2	3.00	-3.00	
7,200.0	10.20	210.58	6,818.8	-1,861.1	-1,190.7	2,209.4	3.00	-3.00	
7,300.0	7.20	210.58	6,917.7	-1,874.1	-1,198.4	2,224.5	3.00	-3.00	
7,400.0	4.20	210.58	7,017.2	-1,882.7	-1,203.5	2,234.5	3.00	-3.00	
7,500.0	1.20	210.58	7,117.1	-1,886.7	-1,205.9	2,239.2	3.00	-3.00	
7,540.0	0.00	0.00	7,157.0	-1,887.1	-1,206.1	2,239.6	3.00	-3.00	EOD @ Inc. = 0°
7,570.0	0.00	0.00	7,187.0	-1,887.1	-1,206.1	2,239.6	0.00	0.00	WILLIAMS FORK
7,600.0	0.06	236.30	7,217.0	-1,887.1	-1,206.1	2,239.6	0.20	0.20	
7,700.0	0.26	236.30	7,317.0	-1,887.3	-1,206.3	2,239.8	0.20	0.20	
7,718.0	0.30	236.30	7,335.1	-1,887.3	-1,206.4	2,239.9	0.20	0.20	
7,800.0	0.30	236.30	7,417.0	-1,887.5	-1,206.8	2,240.3	0.00	0.00	
7,900.0	0.30	236.30	7,517.0	-1,887.8	-1,207.2	2,240.8	0.00	0.00	
8,000.0	0.30	236.30	7,617.0	-1,888.1	-1,207.6	2,241.3	0.00	0.00	
8,100.0	0.30	236.30	7,717.0	-1,888.4	-1,208.1	2,241.7	0.00	0.00	
8,200.0	0.30	236.30	7,817.0	-1,888.7	-1,208.5	2,242.2	0.00	0.00	
8,300.0	0.30	236.30	7,917.0	-1,889.0	-1,208.9	2,242.7	0.00	0.00	
8,400.0	0.30	236.30	8,017.0	-1,889.3	-1,209.4	2,243.2	0.00	0.00	
8,500.0	0.30	236.30	8,117.0	-1,889.6	-1,209.8	2,243.6	0.00	0.00	
8,600.0	0.30	236.30	8,217.0	-1,889.8	-1,210.2	2,244.1	0.00	0.00	
8,700.0	0.30	236.30	8,317.0	-1,890.1	-1,210.6	2,244.6	0.00	0.00	
8,800.0	0.30	236.30	8,417.0	-1,890.4	-1,211.1	2,245.1	0.00	0.00	
8,900.0	0.30	236.30	8,517.0	-1,890.7	-1,211.5	2,245.5	0.00	0.00	
9,000.0	0.30	236.30	8,617.0	-1,891.0	-1,211.9	2,246.0	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:** UWF10E-04 H04 596  
**Wellbore:** DD  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well UWF10E-04 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
9,100.0	0.30	236.30	8,717.0	-1,891.3	-1,212.4	2,246.5	0.00	0.00	
9,200.0	0.30	236.30	8,817.0	-1,891.6	-1,212.8	2,247.0	0.00	0.00	
9,300.0	0.30	236.30	8,917.0	-1,891.8	-1,213.2	2,247.4	0.00	0.00	
9,400.0	0.30	236.30	9,017.0	-1,892.1	-1,213.7	2,247.9	0.00	0.00	
9,500.0	0.30	236.30	9,117.0	-1,892.4	-1,214.1	2,248.4	0.00	0.00	
9,600.0	0.30	236.30	9,217.0	-1,892.7	-1,214.5	2,248.8	0.00	0.00	
9,700.0	0.30	236.30	9,317.0	-1,893.0	-1,214.9	2,249.3	0.00	0.00	
9,800.0	0.30	236.30	9,417.0	-1,893.3	-1,215.4	2,249.8	0.00	0.00	
9,900.0	0.30	236.30	9,517.0	-1,893.6	-1,215.8	2,250.3	0.00	0.00	
10,000.0	0.30	236.30	9,617.0	-1,893.9	-1,216.2	2,250.7	0.00	0.00	
10,100.0	0.30	236.30	9,717.0	-1,894.1	-1,216.7	2,251.2	0.00	0.00	
10,200.0	0.30	236.30	9,817.0	-1,894.4	-1,217.1	2,251.7	0.00	0.00	
10,300.0	0.30	236.30	9,917.0	-1,894.7	-1,217.5	2,252.2	0.00	0.00	
10,400.0	0.30	236.30	10,017.0	-1,895.0	-1,218.0	2,252.6	0.00	0.00	
10,500.0	0.30	236.30	10,117.0	-1,895.3	-1,218.4	2,253.1	0.00	0.00	
10,600.0	0.30	236.30	10,217.0	-1,895.6	-1,218.8	2,253.6	0.00	0.00	
10,700.0	0.30	236.30	10,317.0	-1,895.9	-1,219.2	2,254.1	0.00	0.00	
10,800.0	0.30	236.30	10,417.0	-1,896.1	-1,219.7	2,254.5	0.00	0.00	
10,900.0	0.30	236.30	10,517.0	-1,896.4	-1,220.1	2,255.0	0.00	0.00	
11,000.0	0.30	236.30	10,617.0	-1,896.7	-1,220.5	2,255.5	0.00	0.00	
11,100.0	0.30	236.30	10,717.0	-1,897.0	-1,221.0	2,256.0	0.00	0.00	
11,142.0	0.30	236.30	10,759.0	-1,897.1	-1,221.1	2,256.2	0.00	0.00	TD @ 11,142' MD - ROLLINS
11,200.0	0.30	236.30	10,817.0	-1,897.3	-1,221.4	2,256.4	0.00	0.00	
11,300.0	0.30	236.30	10,917.0	-1,897.6	-1,221.8	2,256.9	0.00	0.00	
11,389.0	0.30	236.30	11,006.0	-1,897.8	-1,222.2	2,257.3	0.00	0.00	COZZETTE
11,400.0	0.30	236.30	11,017.0	-1,897.9	-1,222.3	2,257.4	0.00	0.00	
11,500.0	0.30	236.30	11,117.0	-1,898.2	-1,222.7	2,257.9	0.00	0.00	
11,552.0	0.30	236.30	11,169.0	-1,898.3	-1,222.9	2,258.1	0.00	0.00	CORCORAN
11,600.0	0.30	236.30	11,217.0	-1,898.4	-1,223.1	2,258.3	0.00	0.00	
11,700.0	0.30	236.30	11,317.0	-1,898.7	-1,223.5	2,258.8	0.00	0.00	
11,800.0	0.30	236.30	11,417.0	-1,899.0	-1,224.0	2,259.3	0.00	0.00	
11,846.0	0.30	236.30	11,463.0	-1,899.1	-1,224.2	2,259.5	0.00	0.00	UPPER SEGO
11,900.0	0.30	236.30	11,517.0	-1,899.3	-1,224.4	2,259.8	0.00	0.00	
12,000.0	0.30	236.30	11,617.0	-1,899.6	-1,224.8	2,260.2	0.00	0.00	
12,100.0	0.30	236.30	11,717.0	-1,899.9	-1,225.3	2,260.7	0.00	0.00	
12,200.0	0.30	236.30	11,817.0	-1,900.2	-1,225.7	2,261.2	0.00	0.00	
12,300.0	0.30	236.30	11,917.0	-1,900.4	-1,226.1	2,261.7	0.00	0.00	
12,400.0	0.30	236.30	12,017.0	-1,900.7	-1,226.6	2,262.1	0.00	0.00	
12,500.0	0.30	236.30	12,117.0	-1,901.0	-1,227.0	2,262.6	0.00	0.00	
12,600.0	0.30	236.30	12,217.0	-1,901.3	-1,227.4	2,263.1	0.00	0.00	
12,700.0	0.30	236.30	12,317.0	-1,901.6	-1,227.8	2,263.5	0.00	0.00	
12,800.0	0.30	236.30	12,417.0	-1,901.9	-1,228.3	2,264.0	0.00	0.00	
12,900.0	0.30	236.30	12,517.0	-1,902.2	-1,228.7	2,264.5	0.00	0.00	
13,000.0	0.30	236.30	12,617.0	-1,902.5	-1,229.1	2,265.0	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 UWF10E-04 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>	UWF10E-04 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									
UWF10E-04 TGT - plan hits target center - Point	0.00	0.00	7,187.0	-1,887.1	-1,206.1	1,669,277.09	2,248,365.11	39° 38' 26.29 N	108° 10' 9.71 W
UWF10E-04 BHL - plan hits target center - Point	0.00	0.00	10,759.0	-1,897.1	-1,221.1	1,669,267.51	2,248,349.78	39° 38' 26.19 N	108° 10' 9.90 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,078.2	1,058.0	A GROOVE				
1,249.5	1,219.0	B GROOVE				
1,292.1	1,259.0	B GROOVE BASE				
2,137.9	2,054.0	GARDEN GULCH				
3,265.9	3,114.0	WASATCH FM				
5,449.6	5,166.0	WASATCH G				
7,570.0	7,187.0	WILLIAMS FORK				
11,142.0	10,759.0	ROLLINS				
11,389.0	11,006.0	COZZETTE				
11,552.0	11,169.0	CORCORAN				
11,846.0	11,463.0	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'	
1,471.3	1,427.6	-197.3	-207.5	EOB @ Inc. = 20°	
6,873.3	6,503.8	-1,787.9	-1,147.5	Start 3° Drop	
7,540.0	7,157.0	-1,887.1	-1,206.1	EOD @ Inc. = 0°	
11,142.0	10,759.0	-1,897.1	-1,221.1	TD @ 11,142' MD	
13,000.0	12,617.0	-1,902.5	-1,229.1	Permit TD @ 13,000' MD	