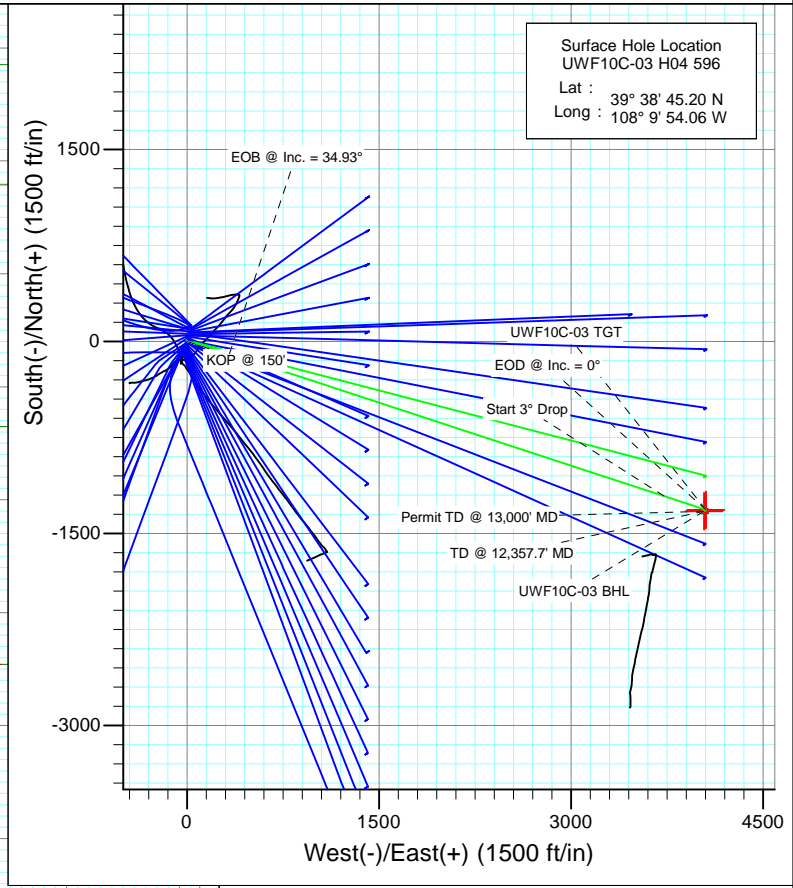


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	150.0	0.00	0.00	150.0	0.0	0.0	0.00	0.00	0.0	
3	483.3	10.00	100.00	481.6	-5.0	28.6	3.00	100.00	28.7	
4	1318.8	34.93	108.17	1247.8	-93.6	332.1	3.00	11.08	344.7	
5	7558.4	34.93	108.17	6363.6	-1207.9	3726.2	0.00	0.00	3917.0	
6	8722.6	0.00	0.00	7457.0	-1315.2	4053.0	3.00	180.00	4261.0	UWF10C-03 TGT
7	10473.0	0.37	236.34	9207.4	-1318.4	4048.3	0.02	236.34	4257.5	
8	12357.7	0.37	236.34	11092.0	-1325.2	4038.0	0.00	0.00	4249.9	UWF10C-03 BHL
9	13000.0	0.37	236.34	11734.3	-1327.5	4034.6	0.00	0.00	4247.3	



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
1087.0	1129.0	A GROOVE
1245.0	1315.4	B GROOVE
1285.0	1364.2	B GROOVE BASE
2148.0	2416.8	GARDEN GULCH
3213.0	3715.7	WASATCH FM
5352.0	6324.6	WASATCH G
7457.0	8722.6	WILLIAMS FORK
11092.0	12357.7	ROLLINS
11335.0	12600.7	COZZETTE
11516.0	12781.7	CORCORAN

Plan #1
 UWF10C-03 H04 596
 WELL @ 8293.0ft (Original Well Elev)
 North American Datum 1983
 Well UWF10C-03 H04 596, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	108.21	Slot	0.0	0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
UWF10C-03 TGT	7457.0	-1315.2	4053.0	39° 38' 32.20 N	108° 9' 2.25 W	
UWF10C-03 BHL	11092.0	-1325.2	4038.0	39° 38' 32.10 N	108° 9' 2.44 W	

Cathedral Energy Services

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well UWF10C-03 H04 596
Company: EnCana Oil & Gas (USA) Inc	TVD Reference: WELL @ 8293.0ft (Original Well Elev)
Project: North Piceance	MD Reference: WELL @ 8293.0ft (Original Well Elev)
Site: H04 Pad	North Reference: True
Well: UWF10C-03 H04 596	Survey Calculation Method: Minimum Curvature
Wellbore: DD	
Design: Plan #1	

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

Site H04 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 UWF10C-03 H04 596					
Well Position	+N/-S	0.0 ft	Northing:	1,671,153.77 ft	Latitude: 39° 38' 45.20 N
	+E/-W	0.0 ft	Easting:	2,249,644.79 ft	Longitude: 108° 9' 54.06 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level: 8,260.0 ft

Wellbore DD					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	4/19/2012	(°)	(°)	(nT)
			10.34	65.81	52,206

Design Plan #1				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	108.21

Plan Sections										
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	
150.0	0.00	0.00	150.0	0.0	0.0	0.00	0.00	0.00	0.00	
483.3	10.00	100.00	481.6	-5.0	28.6	3.00	3.00	0.00	100.00	
1,318.8	34.93	108.17	1,247.8	-93.6	332.1	3.00	2.98	0.98	11.08	
7,558.4	34.93	108.17	6,363.6	-1,207.9	3,726.2	0.00	0.00	0.00	0.00	
8,722.6	0.00	0.00	7,457.0	-1,315.2	4,053.0	3.00	-3.00	0.00	180.00	UWF10C-03 TGT
10,473.0	0.37	236.34	9,207.4	-1,318.4	4,048.3	0.02	0.02	-7.06	236.34	
12,357.7	0.37	236.34	11,092.0	-1,325.2	4,038.0	0.00	0.00	0.00	0.00	UWF10C-03 BHL
13,000.0	0.37	236.34	11,734.3	-1,327.5	4,034.6	0.00	0.00	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF10C-03 H04 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8293.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8293.0ft (Original Well Elev)
Site:	H04 Pad	North Reference:	True
Well:	UWF10C-03 H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	KOP @ 150'
200.0	1.50	100.00	200.0	-0.1	0.6	0.6	3.00	3.00	
300.0	4.50	100.00	299.8	-1.0	5.8	5.8	3.00	3.00	
400.0	7.50	100.00	399.3	-2.8	16.1	16.2	3.00	3.00	
483.3	10.00	100.00	481.6	-5.0	28.6	28.7	3.00	3.00	
500.0	10.49	100.53	498.0	-5.6	31.5	31.7	3.00	2.95	
600.0	13.45	102.89	595.9	-9.8	51.8	52.3	3.00	2.96	
700.0	16.43	104.41	692.5	-15.9	76.8	78.0	3.00	2.97	
800.0	19.41	105.48	787.6	-23.9	106.5	108.7	3.00	2.98	
900.0	22.39	106.27	881.0	-33.7	140.8	144.3	3.00	2.99	
1,000.0	25.38	106.88	972.4	-45.2	179.6	184.8	3.00	2.99	
1,100.0	28.38	107.37	1,061.6	-58.6	222.8	230.0	3.00	2.99	
1,129.0	29.24	107.50	1,087.0	-62.7	236.2	243.9	3.00	2.99	A GROOVE
1,200.0	31.37	107.78	1,148.3	-73.6	270.3	279.8	3.00	2.99	
1,300.0	34.36	108.12	1,232.3	-90.3	321.9	334.0	3.00	2.99	
1,315.4	34.83	108.16	1,245.0	-93.0	330.3	342.8	3.00	2.99	B GROOVE
1,318.8	34.93	108.17	1,247.8	-93.7	332.1	344.7	2.97	2.97	EOB @ Inc. = 34.93°
1,364.2	34.93	108.17	1,285.0	-101.8	356.8	370.7	0.00	0.00	B GROOVE BASE
1,400.0	34.93	108.17	1,314.4	-108.2	376.3	391.2	0.00	0.00	
1,500.0	34.93	108.17	1,396.3	-126.0	430.7	448.5	0.00	0.00	
1,600.0	34.93	108.17	1,478.3	-143.9	485.1	505.7	0.00	0.00	
1,700.0	34.93	108.17	1,560.3	-161.7	539.5	563.0	0.00	0.00	
1,800.0	34.93	108.17	1,642.3	-179.6	593.9	620.2	0.00	0.00	
1,900.0	34.93	108.17	1,724.3	-197.4	648.2	677.5	0.00	0.00	
2,000.0	34.93	108.17	1,806.3	-215.3	702.6	734.7	0.00	0.00	
2,100.0	34.93	108.17	1,888.3	-233.2	757.0	792.0	0.00	0.00	
2,200.0	34.93	108.17	1,970.3	-251.0	811.4	849.2	0.00	0.00	
2,300.0	34.93	108.17	2,052.3	-268.9	865.8	906.5	0.00	0.00	
2,400.0	34.93	108.17	2,134.2	-286.7	920.2	963.7	0.00	0.00	
2,416.8	34.93	108.17	2,148.0	-289.7	929.4	973.3	0.00	0.00	GARDEN GULCH
2,500.0	34.93	108.17	2,216.2	-304.6	974.6	1,021.0	0.00	0.00	
2,600.0	34.93	108.17	2,298.2	-322.4	1,029.0	1,078.2	0.00	0.00	
2,700.0	34.93	108.17	2,380.2	-340.3	1,083.4	1,135.5	0.00	0.00	
2,800.0	34.93	108.17	2,462.2	-358.2	1,137.8	1,192.8	0.00	0.00	
2,900.0	34.93	108.17	2,544.2	-376.0	1,192.2	1,250.0	0.00	0.00	
3,000.0	34.93	108.17	2,626.2	-393.9	1,246.6	1,307.3	0.00	0.00	
3,100.0	34.93	108.17	2,708.2	-411.7	1,301.0	1,364.5	0.00	0.00	
3,200.0	34.93	108.17	2,790.2	-429.6	1,355.4	1,421.8	0.00	0.00	
3,300.0	34.93	108.17	2,872.1	-447.4	1,409.8	1,479.0	0.00	0.00	
3,400.0	34.93	108.17	2,954.1	-465.3	1,464.2	1,536.3	0.00	0.00	
3,500.0	34.93	108.17	3,036.1	-483.2	1,518.6	1,593.5	0.00	0.00	
3,600.0	34.93	108.17	3,118.1	-501.0	1,573.0	1,650.8	0.00	0.00	
3,700.0	34.93	108.17	3,200.1	-518.9	1,627.4	1,708.0	0.00	0.00	
3,715.7	34.93	108.17	3,213.0	-521.7	1,635.9	1,717.0	0.00	0.00	WASATCH FM
3,800.0	34.93	108.17	3,282.1	-536.7	1,681.8	1,765.3	0.00	0.00	
3,900.0	34.93	108.17	3,364.1	-554.6	1,736.2	1,822.5	0.00	0.00	
4,000.0	34.93	108.17	3,446.1	-572.5	1,790.6	1,879.8	0.00	0.00	
4,100.0	34.93	108.17	3,528.1	-590.3	1,845.0	1,937.0	0.00	0.00	
4,200.0	34.93	108.17	3,610.0	-608.2	1,899.4	1,994.3	0.00	0.00	
4,300.0	34.93	108.17	3,692.0	-626.0	1,953.7	2,051.5	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF10C-03 H04 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8293.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8293.0ft (Original Well Elev)
Site:	H04 Pad	North Reference:	True
Well:	UWF10C-03 H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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	34.93	108.17	3,774.0	-643.9	2,008.1	2,108.8	0.00	0.00	
4,500.0	34.93	108.17	3,856.0	-661.7	2,062.5	2,166.0	0.00	0.00	
4,600.0	34.93	108.17	3,938.0	-679.6	2,116.9	2,223.3	0.00	0.00	
4,700.0	34.93	108.17	4,020.0	-697.5	2,171.3	2,280.5	0.00	0.00	
4,800.0	34.93	108.17	4,102.0	-715.3	2,225.7	2,337.8	0.00	0.00	
4,900.0	34.93	108.17	4,184.0	-733.2	2,280.1	2,395.0	0.00	0.00	
5,000.0	34.93	108.17	4,266.0	-751.0	2,334.5	2,452.3	0.00	0.00	
5,100.0	34.93	108.17	4,347.9	-768.9	2,388.9	2,509.5	0.00	0.00	
5,200.0	34.93	108.17	4,429.9	-786.7	2,443.3	2,566.8	0.00	0.00	
5,300.0	34.93	108.17	4,511.9	-804.6	2,497.7	2,624.1	0.00	0.00	
5,400.0	34.93	108.17	4,593.9	-822.5	2,552.1	2,681.3	0.00	0.00	
5,500.0	34.93	108.17	4,675.9	-840.3	2,606.5	2,738.6	0.00	0.00	
5,600.0	34.93	108.17	4,757.9	-858.2	2,660.9	2,795.8	0.00	0.00	
5,700.0	34.93	108.17	4,839.9	-876.0	2,715.3	2,853.1	0.00	0.00	
5,800.0	34.93	108.17	4,921.9	-893.9	2,769.7	2,910.3	0.00	0.00	
5,900.0	34.93	108.17	5,003.9	-911.7	2,824.1	2,967.6	0.00	0.00	
6,000.0	34.93	108.17	5,085.9	-929.6	2,878.5	3,024.8	0.00	0.00	
6,100.0	34.93	108.17	5,167.8	-947.5	2,932.9	3,082.1	0.00	0.00	
6,200.0	34.93	108.17	5,249.8	-965.3	2,987.3	3,139.3	0.00	0.00	
6,300.0	34.93	108.17	5,331.8	-983.2	3,041.7	3,196.6	0.00	0.00	
6,324.6	34.93	108.17	5,352.0	-987.6	3,055.1	3,210.7	0.00	0.00	WASATCH G
6,400.0	34.93	108.17	5,413.8	-1,001.0	3,096.1	3,253.8	0.00	0.00	
6,500.0	34.93	108.17	5,495.8	-1,018.9	3,150.5	3,311.1	0.00	0.00	
6,600.0	34.93	108.17	5,577.8	-1,036.8	3,204.8	3,368.3	0.00	0.00	
6,700.0	34.93	108.17	5,659.8	-1,054.6	3,259.2	3,425.6	0.00	0.00	
6,800.0	34.93	108.17	5,741.8	-1,072.5	3,313.6	3,482.8	0.00	0.00	
6,900.0	34.93	108.17	5,823.8	-1,090.3	3,368.0	3,540.1	0.00	0.00	
7,000.0	34.93	108.17	5,905.7	-1,108.2	3,422.4	3,597.3	0.00	0.00	
7,100.0	34.93	108.17	5,987.7	-1,126.0	3,476.8	3,654.6	0.00	0.00	
7,200.0	34.93	108.17	6,069.7	-1,143.9	3,531.2	3,711.8	0.00	0.00	
7,300.0	34.93	108.17	6,151.7	-1,161.8	3,585.6	3,769.1	0.00	0.00	
7,400.0	34.93	108.17	6,233.7	-1,179.6	3,640.0	3,826.3	0.00	0.00	
7,500.0	34.93	108.17	6,315.7	-1,197.5	3,694.4	3,883.6	0.00	0.00	
7,558.4	34.93	108.17	6,363.6	-1,207.9	3,726.2	3,917.0	0.00	0.00	Start 3° Drop
7,600.0	33.68	108.17	6,397.9	-1,215.2	3,748.5	3,940.5	3.00	-3.00	
7,700.0	30.68	108.17	6,482.6	-1,231.8	3,799.0	3,993.7	3.00	-3.00	
7,800.0	27.68	108.17	6,569.9	-1,247.0	3,845.4	4,042.5	3.00	-3.00	
7,900.0	24.68	108.17	6,659.6	-1,260.8	3,887.3	4,086.6	3.00	-3.00	
8,000.0	21.68	108.17	6,751.5	-1,273.1	3,924.7	4,125.9	3.00	-3.00	
8,100.0	18.68	108.17	6,845.4	-1,283.8	3,957.4	4,160.4	3.00	-3.00	
8,200.0	15.68	108.17	6,940.9	-1,293.0	3,985.5	4,190.0	3.00	-3.00	
8,300.0	12.68	108.17	7,037.8	-1,300.7	4,008.8	4,214.4	3.00	-3.00	
8,400.0	9.68	108.17	7,135.9	-1,306.7	4,027.2	4,233.8	3.00	-3.00	
8,500.0	6.68	108.17	7,234.9	-1,311.2	4,040.7	4,248.1	3.00	-3.00	
8,600.0	3.68	108.17	7,334.5	-1,314.0	4,049.3	4,257.1	3.00	-3.00	
8,700.0	0.68	108.17	7,434.4	-1,315.2	4,052.9	4,260.9	3.00	-3.00	
8,722.6	0.00	0.00	7,457.0	-1,315.2	4,053.0	4,261.0	3.00	-3.00	EOD @ Inc. = 0° - WILLIAMS FORK
8,800.0	0.02	236.34	7,534.4	-1,315.2	4,053.0	4,261.0	0.02	0.02	
8,900.0	0.04	236.34	7,634.4	-1,315.2	4,053.0	4,261.0	0.02	0.02	
9,000.0	0.06	236.34	7,734.4	-1,315.3	4,052.9	4,260.9	0.02	0.02	
9,100.0	0.08	236.34	7,834.4	-1,315.3	4,052.8	4,260.9	0.02	0.02	
9,200.0	0.10	236.34	7,934.4	-1,315.4	4,052.6	4,260.8	0.02	0.02	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF10C-03 H04 596
Company:	EnCana Oil & Gas (USA) Inc	TVD Reference:	WELL @ 8293.0ft (Original Well Elev)
Project:	North Piceance	MD Reference:	WELL @ 8293.0ft (Original Well Elev)
Site:	H04 Pad	North Reference:	True
Well:	UWF10C-03 H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	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
9,300.0	0.12	236.34	8,034.4	-1,315.5	4,052.5	4,260.6	0.02	0.02	
9,400.0	0.14	236.34	8,134.4	-1,315.7	4,052.3	4,260.5	0.02	0.02	
9,500.0	0.17	236.34	8,234.4	-1,315.8	4,052.1	4,260.3	0.02	0.02	
9,600.0	0.19	236.34	8,334.4	-1,316.0	4,051.8	4,260.1	0.02	0.02	
9,700.0	0.21	236.34	8,434.4	-1,316.2	4,051.5	4,259.9	0.02	0.02	
9,800.0	0.23	236.34	8,534.4	-1,316.4	4,051.2	4,259.7	0.02	0.02	
9,900.0	0.25	236.34	8,634.4	-1,316.6	4,050.9	4,259.4	0.02	0.02	
10,000.0	0.27	236.34	8,734.4	-1,316.9	4,050.5	4,259.1	0.02	0.02	
10,100.0	0.29	236.34	8,834.4	-1,317.2	4,050.1	4,258.8	0.02	0.02	
10,200.0	0.31	236.34	8,934.4	-1,317.4	4,049.6	4,258.5	0.02	0.02	
10,300.0	0.34	236.34	9,034.4	-1,317.8	4,049.1	4,258.2	0.02	0.02	
10,400.0	0.36	236.34	9,134.4	-1,318.1	4,048.6	4,257.8	0.02	0.02	
10,473.0	0.37	236.34	9,207.4	-1,318.4	4,048.3	4,257.5	0.02	0.02	
10,500.0	0.37	236.34	9,234.4	-1,318.5	4,048.1	4,257.4	0.00	0.00	
10,600.0	0.37	236.34	9,334.4	-1,318.8	4,047.6	4,257.0	0.00	0.00	
10,700.0	0.37	236.34	9,434.4	-1,319.2	4,047.0	4,256.6	0.00	0.00	
10,800.0	0.37	236.34	9,534.4	-1,319.5	4,046.5	4,256.2	0.00	0.00	
10,900.0	0.37	236.34	9,634.4	-1,319.9	4,045.9	4,255.8	0.00	0.00	
11,000.0	0.37	236.34	9,734.4	-1,320.3	4,045.4	4,255.4	0.00	0.00	
11,100.0	0.37	236.34	9,834.4	-1,320.6	4,044.9	4,255.0	0.00	0.00	
11,200.0	0.37	236.34	9,934.4	-1,321.0	4,044.3	4,254.6	0.00	0.00	
11,300.0	0.37	236.34	10,034.4	-1,321.3	4,043.8	4,254.2	0.00	0.00	
11,400.0	0.37	236.34	10,134.4	-1,321.7	4,043.2	4,253.8	0.00	0.00	
11,500.0	0.37	236.34	10,234.4	-1,322.1	4,042.7	4,253.4	0.00	0.00	
11,600.0	0.37	236.34	10,334.4	-1,322.4	4,042.1	4,253.0	0.00	0.00	
11,700.0	0.37	236.34	10,434.4	-1,322.8	4,041.6	4,252.6	0.00	0.00	
11,800.0	0.37	236.34	10,534.4	-1,323.1	4,041.1	4,252.2	0.00	0.00	
11,900.0	0.37	236.34	10,634.4	-1,323.5	4,040.5	4,251.8	0.00	0.00	
12,000.0	0.37	236.34	10,734.4	-1,323.9	4,040.0	4,251.4	0.00	0.00	
12,100.0	0.37	236.34	10,834.3	-1,324.2	4,039.4	4,251.0	0.00	0.00	
12,200.0	0.37	236.34	10,934.3	-1,324.6	4,038.9	4,250.6	0.00	0.00	
12,300.0	0.37	236.34	11,034.3	-1,324.9	4,038.4	4,250.1	0.00	0.00	
12,357.7	0.37	236.34	11,092.0	-1,325.2	4,038.0	4,249.9	0.00	0.00	TD @ 12,357.7' MD - ROLLINS
12,400.0	0.37	236.34	11,134.3	-1,325.3	4,037.8	4,249.7	0.00	0.00	
12,500.0	0.37	236.34	11,234.3	-1,325.7	4,037.3	4,249.3	0.00	0.00	
12,600.0	0.37	236.34	11,334.3	-1,326.0	4,036.7	4,248.9	0.00	0.00	
12,600.7	0.37	236.34	11,335.0	-1,326.0	4,036.7	4,248.9	0.00	0.00	COZZETTE
12,700.0	0.37	236.34	11,434.3	-1,326.4	4,036.2	4,248.5	0.00	0.00	
12,781.7	0.37	236.34	11,516.0	-1,326.7	4,035.7	4,248.2	0.00	0.00	CORCORAN
12,800.0	0.37	236.34	11,534.3	-1,326.8	4,035.6	4,248.1	0.00	0.00	
12,900.0	0.37	236.34	11,634.3	-1,327.1	4,035.1	4,247.7	0.00	0.00	
13,000.0	0.37	236.34	11,734.3	-1,327.5	4,034.6	4,247.3	0.00	0.00	Permit TD @ 13,000' MD

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: UWF10C-03 H04 596
Wellbore: DD
Design: Plan #1

Local Co-ordinate Reference: Well UWF10C-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

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									
UWF10C-03 TGT - plan hits target center - Point	0.00	0.00	7,457.0	-1,315.2	4,053.0	1,669,720.26	2,253,657.47	39° 38' 32.20 N	108° 9' 2.25 W
UWF10C-03 BHL - plan hits target center - Point	0.00	0.00	11,092.0	-1,325.2	4,038.0	1,669,710.74	2,253,642.23	39° 38' 32.10 N	108° 9' 2.44 W

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,129.0	1,087.0	A GROOVE				
1,315.4	1,245.0	B GROOVE				
1,364.2	1,285.0	B GROOVE BASE				
2,416.8	2,148.0	GARDEN GULCH				
3,715.7	3,213.0	WASATCH FM				
6,324.6	5,352.0	WASATCH G				
8,722.6	7,457.0	WILLIAMS FORK				
12,357.7	11,092.0	ROLLINS				
12,600.7	11,335.0	COZZETTE				
12,781.7	11,516.0	CORCORAN				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(ft)	(ft)	+N/-S	+E/-W		
		(ft)	(ft)		
150.0	150.0	0.0	0.0	KOP @ 150'	
1,318.8	1,247.8	-93.7	332.1	EOB @ Inc. = 34.93°	
7,558.4	6,363.6	-1,207.9	3,726.2	Start 3° Drop	
8,722.6	7,457.0	-1,315.2	4,053.0	EOD @ Inc. = 0°	
12,357.7	11,092.0	-1,325.2	4,038.0	TD @ 12,357.7' MD	
13,000.0	11,734.3	-1,327.5	4,034.6	Permit TD @ 13,000' MD	