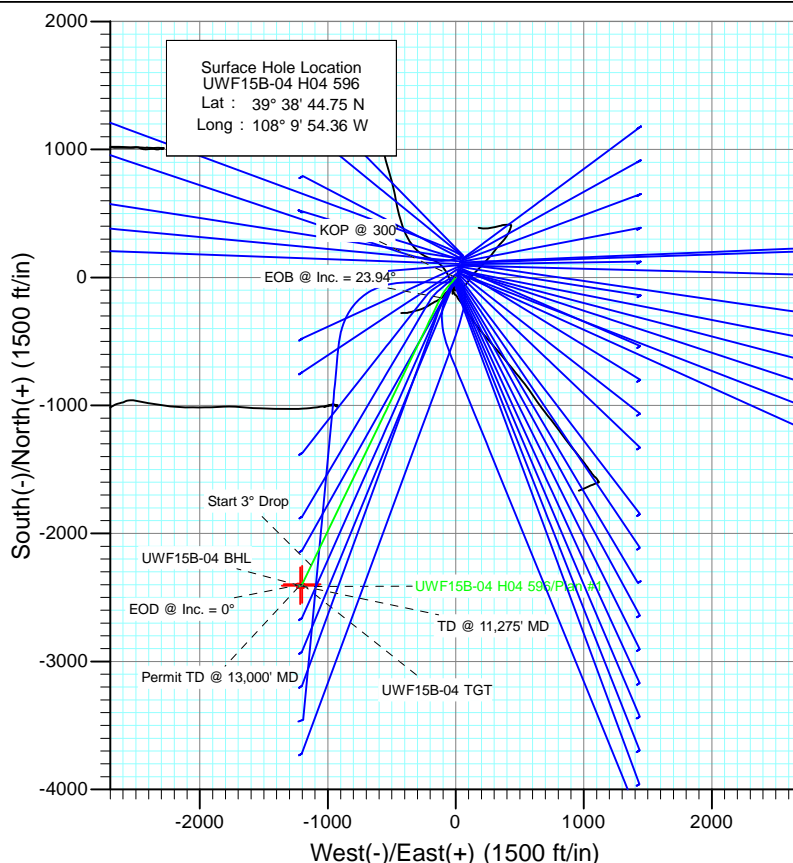


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	966.7	20.00	220.20	953.2	-88.0	-74.3	3.00	220.20	112.1	
4	1188.1	23.94	205.81	1158.7	-157.4	-118.4	3.00	-60.66	194.0	
5	6915.1	23.94	205.81	6393.1	-2249.2	-1130.0	0.00	0.00	2517.1	
6	7713.0	0.00	0.00	7168.0	-2397.1	-1201.5	3.00	180.00	2681.3	UWF15B-04 TGT
7	9456.6	0.38	236.28	8911.6	-2400.3	-1206.4	0.02	236.28	2686.4	
8	11275.0	0.38	236.28	10730.0	-2407.1	-1216.5	0.00	0.00	2697.0	UWF15B-04 BHL
9	13000.0	0.38	236.28	12454.9	-2413.5	-1226.1	0.00	0.00	2707.1	



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
1053.0	1073.4	A GROOVE
1215.0	1249.7	B GROOVE
1255.0	1293.5	B GROOVE BASE
2048.0	2161.1	GARDEN GULCH
3097.0	3308.8	WASATCH FM
5151.0	5556.1	WASATCH G
7168.0	7713.0	WILLIAMS FORK
10730.0	11275.0	ROLLINS
10999.0	11544.0	COZZETTE
11166.0	11711.0	CORCORAN
11457.0	12002.0	UPPER SEGO

Plan #1
UWF15B-04 H04 596
WELL @ 8293.0ft (Original Well Elev)
North American Datum 1983
Well UWF15B-04 H04 596, True North

Type TD	Target	Azimuth	Origin Type	N/S	E/W	From TVD
	No Target (Freehand)	206.93	Slot	0.0	0.0	0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
UWF15B-04 TGT	7168.0	-2397.1	-1201.5	39° 38' 21.06 N	108° 10' 9.72 W	
UWF15B-04 BHL	10730.0	-2407.1	-1216.5	39° 38' 20.96 N	108° 10' 9.91 W	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04 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:	UWF15B-04 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	UWF15B-04 H04 596					
Well Position	+N/-S	0.0 ft	Northing:	1,671,108.95 ft	Latitude:	39° 38' 44.75 N
	+E/-W	0.0 ft	Easting:	2,249,620.00 ft	Longitude:	108° 9' 54.36 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 (nT)
	IGRF2010	4/19/2012	10.34	65.81	52,206

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	206.93	

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	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
966.7	20.00	220.20	953.2	-88.0	-74.3	3.00	3.00	0.00	220.20	
1,188.1	23.94	205.81	1,158.7	-157.4	-118.4	3.00	1.78	-6.50	-60.66	
6,915.1	23.94	205.81	6,393.1	-2,249.2	-1,130.0	0.00	0.00	0.00	0.00	
7,713.0	0.00	0.00	7,168.0	-2,397.1	-1,201.5	3.00	-3.00	0.00	180.00	UWF15B-04 TGT
9,456.6	0.38	236.28	8,911.6	-2,400.3	-1,206.4	0.02	0.02	-7.10	236.28	
11,275.0	0.38	236.28	10,730.0	-2,407.1	-1,216.5	0.00	0.00	0.00	0.00	UWF15B-04 BHL
13,000.0	0.38	236.28	12,454.9	-2,413.5	-1,226.1	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 UWF15B-04 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:	UWF15B-04 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	
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	220.20	400.0	-2.0	-1.7	2.5	3.00	3.00	
500.0	6.00	220.20	499.6	-8.0	-6.8	10.2	3.00	3.00	
600.0	9.00	220.20	598.8	-18.0	-15.2	22.9	3.00	3.00	
700.0	12.00	220.20	697.1	-31.9	-26.9	40.6	3.00	3.00	
800.0	15.00	220.20	794.3	-49.7	-42.0	63.3	3.00	3.00	
900.0	18.00	220.20	890.2	-71.4	-60.3	91.0	3.00	3.00	
966.7	20.00	220.20	953.2	-88.0	-74.3	112.1	3.00	3.00	
1,000.0	20.51	217.71	984.5	-96.9	-81.6	123.4	3.00	1.52	
1,073.4	21.74	212.64	1,053.0	-118.6	-96.8	149.6	3.00	1.68	A GROOVE
1,100.0	22.22	210.95	1,077.6	-127.0	-102.0	159.5	3.00	1.81	
1,188.1	23.94	205.81	1,158.7	-157.4	-118.4	194.0	3.00	1.94	EOB @ Inc. = 23.94°
1,200.0	23.94	205.81	1,169.6	-161.8	-120.5	198.8	0.00	0.00	
1,249.7	23.94	205.81	1,215.0	-179.9	-129.3	219.0	0.00	0.00	B GROOVE
1,293.5	23.94	205.81	1,255.0	-195.9	-137.0	236.7	0.00	0.00	B GROOVE BASE
1,300.0	23.94	205.81	1,261.0	-198.3	-138.2	239.4	0.00	0.00	
1,400.0	23.94	205.81	1,352.4	-234.8	-155.8	279.9	0.00	0.00	
1,500.0	23.94	205.81	1,443.8	-271.3	-173.5	320.5	0.00	0.00	
1,600.0	23.94	205.81	1,535.1	-307.9	-191.1	361.0	0.00	0.00	
1,700.0	23.94	205.81	1,626.5	-344.4	-208.8	401.6	0.00	0.00	
1,800.0	23.94	205.81	1,717.9	-380.9	-226.5	442.2	0.00	0.00	
1,900.0	23.94	205.81	1,809.3	-417.4	-244.1	482.7	0.00	0.00	
2,000.0	23.94	205.81	1,900.7	-454.0	-261.8	523.3	0.00	0.00	
2,100.0	23.94	205.81	1,992.1	-490.5	-279.5	563.9	0.00	0.00	
2,161.1	23.94	205.81	2,048.0	-512.8	-290.3	588.7	0.00	0.00	GARDEN GULCH
2,200.0	23.94	205.81	2,083.5	-527.0	-297.1	604.4	0.00	0.00	
2,300.0	23.94	205.81	2,174.9	-563.5	-314.8	645.0	0.00	0.00	
2,400.0	23.94	205.81	2,266.3	-600.1	-332.5	685.6	0.00	0.00	
2,500.0	23.94	205.81	2,357.7	-636.6	-350.1	726.1	0.00	0.00	
2,600.0	23.94	205.81	2,449.1	-673.1	-367.8	766.7	0.00	0.00	
2,700.0	23.94	205.81	2,540.5	-709.6	-385.4	807.3	0.00	0.00	
2,800.0	23.94	205.81	2,631.9	-746.2	-403.1	847.8	0.00	0.00	
2,900.0	23.94	205.81	2,723.3	-782.7	-420.8	888.4	0.00	0.00	
3,000.0	23.94	205.81	2,814.7	-819.2	-438.4	929.0	0.00	0.00	
3,100.0	23.94	205.81	2,906.1	-855.7	-456.1	969.5	0.00	0.00	
3,200.0	23.94	205.81	2,997.5	-892.3	-473.8	1,010.1	0.00	0.00	
3,300.0	23.94	205.81	3,088.9	-928.8	-491.4	1,050.6	0.00	0.00	
3,308.8	23.94	205.81	3,097.0	-932.0	-493.0	1,054.2	0.00	0.00	WASATCH FM
3,400.0	23.94	205.81	3,180.3	-965.3	-509.1	1,091.2	0.00	0.00	
3,500.0	23.94	205.81	3,271.7	-1,001.8	-526.8	1,131.8	0.00	0.00	
3,600.0	23.94	205.81	3,363.1	-1,038.4	-544.4	1,172.3	0.00	0.00	
3,700.0	23.94	205.81	3,454.5	-1,074.9	-562.1	1,212.9	0.00	0.00	
3,800.0	23.94	205.81	3,545.9	-1,111.4	-579.7	1,253.5	0.00	0.00	
3,900.0	23.94	205.81	3,637.3	-1,147.9	-597.4	1,294.0	0.00	0.00	
4,000.0	23.94	205.81	3,728.7	-1,184.5	-615.1	1,334.6	0.00	0.00	
4,100.0	23.94	205.81	3,820.1	-1,221.0	-632.7	1,375.2	0.00	0.00	
4,200.0	23.94	205.81	3,911.5	-1,257.5	-650.4	1,415.7	0.00	0.00	
4,300.0	23.94	205.81	4,002.9	-1,294.1	-668.1	1,456.3	0.00	0.00	
4,400.0	23.94	205.81	4,094.3	-1,330.6	-685.7	1,496.9	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04 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:	UWF15B-04 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
4,500.0	23.94	205.81	4,185.7	-1,367.1	-703.4	1,537.4	0.00	0.00	
4,600.0	23.94	205.81	4,277.1	-1,403.6	-721.1	1,578.0	0.00	0.00	
4,700.0	23.94	205.81	4,368.5	-1,440.2	-738.7	1,618.6	0.00	0.00	
4,800.0	23.94	205.81	4,459.9	-1,476.7	-756.4	1,659.1	0.00	0.00	
4,900.0	23.94	205.81	4,551.3	-1,513.2	-774.0	1,699.7	0.00	0.00	
5,000.0	23.94	205.81	4,642.7	-1,549.7	-791.7	1,740.2	0.00	0.00	
5,100.0	23.94	205.81	4,734.1	-1,586.3	-809.4	1,780.8	0.00	0.00	
5,200.0	23.94	205.81	4,825.5	-1,622.8	-827.0	1,821.4	0.00	0.00	
5,300.0	23.94	205.81	4,916.9	-1,659.3	-844.7	1,861.9	0.00	0.00	
5,400.0	23.94	205.81	5,008.3	-1,695.8	-862.4	1,902.5	0.00	0.00	
5,500.0	23.94	205.81	5,099.7	-1,732.4	-880.0	1,943.1	0.00	0.00	
5,556.1	23.94	205.81	5,151.0	-1,752.8	-889.9	1,965.8	0.00	0.00	WASATCH G
5,600.0	23.94	205.81	5,191.1	-1,768.9	-897.7	1,983.6	0.00	0.00	
5,700.0	23.94	205.81	5,282.5	-1,805.4	-915.4	2,024.2	0.00	0.00	
5,800.0	23.94	205.81	5,373.9	-1,841.9	-933.0	2,064.8	0.00	0.00	
5,900.0	23.94	205.81	5,465.3	-1,878.5	-950.7	2,105.3	0.00	0.00	
6,000.0	23.94	205.81	5,556.7	-1,915.0	-968.3	2,145.9	0.00	0.00	
6,100.0	23.94	205.81	5,648.1	-1,951.5	-986.0	2,186.5	0.00	0.00	
6,200.0	23.94	205.81	5,739.5	-1,988.0	-1,003.7	2,227.0	0.00	0.00	
6,300.0	23.94	205.81	5,830.9	-2,024.6	-1,021.3	2,267.6	0.00	0.00	
6,400.0	23.94	205.81	5,922.3	-2,061.1	-1,039.0	2,308.1	0.00	0.00	
6,500.0	23.94	205.81	6,013.7	-2,097.6	-1,056.7	2,348.7	0.00	0.00	
6,600.0	23.94	205.81	6,105.1	-2,134.1	-1,074.3	2,389.3	0.00	0.00	
6,700.0	23.94	205.81	6,196.5	-2,170.7	-1,092.0	2,429.8	0.00	0.00	
6,800.0	23.94	205.81	6,287.9	-2,207.2	-1,109.7	2,470.4	0.00	0.00	
6,900.0	23.94	205.81	6,379.3	-2,243.7	-1,127.3	2,511.0	0.00	0.00	
6,915.1	23.94	205.81	6,393.1	-2,249.2	-1,130.0	2,517.1	0.00	0.00	Start 3° Drop
7,000.0	21.39	205.81	6,471.5	-2,278.7	-1,144.2	2,549.8	3.00	-3.00	
7,100.0	18.39	205.81	6,565.5	-2,309.3	-1,159.0	2,583.8	3.00	-3.00	
7,200.0	15.39	205.81	6,661.2	-2,335.5	-1,171.7	2,612.9	3.00	-3.00	
7,300.0	12.39	205.81	6,758.2	-2,357.1	-1,182.1	2,636.9	3.00	-3.00	
7,400.0	9.39	205.81	6,856.4	-2,374.1	-1,190.4	2,655.7	3.00	-3.00	
7,500.0	6.39	205.81	6,955.5	-2,386.4	-1,196.3	2,669.5	3.00	-3.00	
7,600.0	3.39	205.81	7,055.1	-2,394.1	-1,200.0	2,678.0	3.00	-3.00	
7,700.0	0.39	205.81	7,155.0	-2,397.1	-1,201.5	2,681.3	3.00	-3.00	
7,713.0	0.00	0.00	7,168.0	-2,397.1	-1,201.5	2,681.3	3.00	-3.00	EOD @ Inc. = 0° - WILLIAMS FORK
7,800.0	0.02	236.28	7,255.0	-2,397.1	-1,201.5	2,681.3	0.02	0.02	
7,900.0	0.04	236.28	7,355.0	-2,397.1	-1,201.6	2,681.4	0.02	0.02	
8,000.0	0.06	236.28	7,455.0	-2,397.2	-1,201.6	2,681.5	0.02	0.02	
8,100.0	0.09	236.28	7,555.0	-2,397.3	-1,201.7	2,681.6	0.02	0.02	
8,200.0	0.11	236.28	7,655.0	-2,397.4	-1,201.9	2,681.7	0.02	0.02	
8,300.0	0.13	236.28	7,755.0	-2,397.5	-1,202.0	2,681.9	0.02	0.02	
8,400.0	0.15	236.28	7,855.0	-2,397.6	-1,202.3	2,682.1	0.02	0.02	
8,500.0	0.17	236.28	7,955.0	-2,397.8	-1,202.5	2,682.4	0.02	0.02	
8,600.0	0.20	236.28	8,055.0	-2,397.9	-1,202.8	2,682.6	0.02	0.02	
8,700.0	0.22	236.28	8,155.0	-2,398.1	-1,203.1	2,682.9	0.02	0.02	
8,800.0	0.24	236.28	8,255.0	-2,398.4	-1,203.4	2,683.3	0.02	0.02	
8,900.0	0.26	236.28	8,355.0	-2,398.6	-1,203.7	2,683.7	0.02	0.02	
9,000.0	0.28	236.28	8,455.0	-2,398.9	-1,204.1	2,684.1	0.02	0.02	
9,100.0	0.30	236.28	8,555.0	-2,399.1	-1,204.6	2,684.5	0.02	0.02	
9,200.0	0.33	236.28	8,655.0	-2,399.5	-1,205.0	2,685.0	0.02	0.02	
9,300.0	0.35	236.28	8,755.0	-2,399.8	-1,205.5	2,685.5	0.02	0.02	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04 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:	UWF15B-04 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
9,400.0	0.37	236.28	8,855.0	-2,400.1	-1,206.0	2,686.1	0.02	0.02	
9,456.6	0.38	236.28	8,911.6	-2,400.3	-1,206.4	2,686.4	0.02	0.02	
9,500.0	0.38	236.28	8,955.0	-2,400.5	-1,206.6	2,686.7	0.00	0.00	
9,600.0	0.38	236.28	9,055.0	-2,400.9	-1,207.2	2,687.2	0.00	0.00	
9,700.0	0.38	236.28	9,155.0	-2,401.2	-1,207.7	2,687.8	0.00	0.00	
9,800.0	0.38	236.28	9,255.0	-2,401.6	-1,208.3	2,688.4	0.00	0.00	
9,900.0	0.38	236.28	9,355.0	-2,402.0	-1,208.8	2,689.0	0.00	0.00	
10,000.0	0.38	236.28	9,455.0	-2,402.4	-1,209.4	2,689.6	0.00	0.00	
10,100.0	0.38	236.28	9,555.0	-2,402.7	-1,209.9	2,690.2	0.00	0.00	
10,200.0	0.38	236.28	9,655.0	-2,403.1	-1,210.5	2,690.7	0.00	0.00	
10,300.0	0.38	236.28	9,755.0	-2,403.5	-1,211.0	2,691.3	0.00	0.00	
10,400.0	0.38	236.28	9,855.0	-2,403.8	-1,211.6	2,691.9	0.00	0.00	
10,500.0	0.38	236.28	9,955.0	-2,404.2	-1,212.2	2,692.5	0.00	0.00	
10,600.0	0.38	236.28	10,055.0	-2,404.6	-1,212.7	2,693.1	0.00	0.00	
10,700.0	0.38	236.28	10,155.0	-2,405.0	-1,213.3	2,693.7	0.00	0.00	
10,800.0	0.38	236.28	10,255.0	-2,405.3	-1,213.8	2,694.2	0.00	0.00	
10,900.0	0.38	236.28	10,355.0	-2,405.7	-1,214.4	2,694.8	0.00	0.00	
11,000.0	0.38	236.28	10,455.0	-2,406.1	-1,214.9	2,695.4	0.00	0.00	
11,100.0	0.38	236.28	10,555.0	-2,406.4	-1,215.5	2,696.0	0.00	0.00	
11,200.0	0.38	236.28	10,655.0	-2,406.8	-1,216.1	2,696.6	0.00	0.00	
11,275.0	0.38	236.28	10,730.0	-2,407.1	-1,216.5	2,697.0	0.00	0.00	TD @ 11,275' MD - ROLLINS
11,300.0	0.38	236.28	10,755.0	-2,407.2	-1,216.6	2,697.2	0.00	0.00	
11,400.0	0.38	236.28	10,855.0	-2,407.6	-1,217.2	2,697.7	0.00	0.00	
11,500.0	0.38	236.28	10,955.0	-2,407.9	-1,217.7	2,698.3	0.00	0.00	
11,544.0	0.38	236.28	10,999.0	-2,408.1	-1,218.0	2,698.6	0.00	0.00	COZZETTE
11,600.0	0.38	236.28	11,055.0	-2,408.3	-1,218.3	2,698.9	0.00	0.00	
11,700.0	0.38	236.28	11,155.0	-2,408.7	-1,218.8	2,699.5	0.00	0.00	
11,711.0	0.38	236.28	11,166.0	-2,408.7	-1,218.9	2,699.6	0.00	0.00	CORCORAN
11,800.0	0.38	236.28	11,255.0	-2,409.0	-1,219.4	2,700.1	0.00	0.00	
11,900.0	0.38	236.28	11,355.0	-2,409.4	-1,220.0	2,700.7	0.00	0.00	
12,000.0	0.38	236.28	11,455.0	-2,409.8	-1,220.5	2,701.2	0.00	0.00	
12,002.0	0.38	236.28	11,457.0	-2,409.8	-1,220.5	2,701.2	0.00	0.00	UPPER SEGO
12,100.0	0.38	236.28	11,554.9	-2,410.2	-1,221.1	2,701.8	0.00	0.00	
12,200.0	0.38	236.28	11,654.9	-2,410.5	-1,221.6	2,702.4	0.00	0.00	
12,300.0	0.38	236.28	11,754.9	-2,410.9	-1,222.2	2,703.0	0.00	0.00	
12,400.0	0.38	236.28	11,854.9	-2,411.3	-1,222.7	2,703.6	0.00	0.00	
12,500.0	0.38	236.28	11,954.9	-2,411.6	-1,223.3	2,704.2	0.00	0.00	
12,600.0	0.38	236.28	12,054.9	-2,412.0	-1,223.8	2,704.7	0.00	0.00	
12,700.0	0.38	236.28	12,154.9	-2,412.4	-1,224.4	2,705.3	0.00	0.00	
12,800.0	0.38	236.28	12,254.9	-2,412.8	-1,225.0	2,705.9	0.00	0.00	
12,900.0	0.38	236.28	12,354.9	-2,413.1	-1,225.5	2,706.5	0.00	0.00	
13,000.0	0.38	236.28	12,454.9	-2,413.5	-1,226.1	2,707.1	0.00	0.00	Permit TD @ 13,000' MD

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04 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:	UWF15B-04 H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

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)		
UWF15B-04 BHL	0.00	0.00	10,730.0	-2,407.1	-1,216.5	1,668,738.57	2,248,333.45	39° 38' 20.96 N	108° 10' 9.91 W
- plan hits target center									
- Point									
UWF15B-04 TGT	0.00	0.00	7,168.0	-2,397.1	-1,201.5	1,668,748.12	2,248,348.71	39° 38' 21.06 N	108° 10' 9.72 W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(ft)	(ft)			(°)	(°)	
1,073.4	1,053.0	A GROOVE				
1,249.7	1,215.0	B GROOVE				
1,293.5	1,255.0	B GROOVE BASE				
2,161.1	2,048.0	GARDEN GULCH				
3,308.8	3,097.0	WASATCH FM				
5,556.1	5,151.0	WASATCH G				
7,713.0	7,168.0	WILLIAMS FORK				
11,275.0	10,730.0	ROLLINS				
11,544.0	10,999.0	COZZETTE				
11,711.0	11,166.0	CORCORAN				
12,002.0	11,457.0	UPPER SEGO				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
300.0	300.0	0.0	0.0	KOP @ 300'
1,188.1	1,158.7	-157.4	-118.4	EOB @ Inc. = 23.94°
6,915.1	6,393.1	-2,249.2	-1,130.0	Start 3° Drop
7,713.0	7,168.0	-2,397.1	-1,201.5	EOD @ Inc. = 0°
11,275.0	10,730.0	-2,407.1	-1,216.5	TD @ 11,275' MD
13,000.0	12,454.9	-2,413.5	-1,226.1	Permit TD @ 13,000' MD