



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1057.0	1088.7	A GROOVE
1219.0	1274.8	B GROOVE
1259.0	1322.5	B GROOVE BASE
2053.0	2275.7	GARDEN GULCH
3134.0	3573.4	WASATCH FM
5204.0	6058.3	WASATCH G
7252.0	8368.1	WILLIAMS FORK
10833.0	11949.2	ROLLINS
11088.0	12204.2	COZZETTE
11265.0	12381.2	CORCORAN
11560.0	12676.2	UPPER SEGO

Plan #1 UWF04B-10 H04 596 125XXX; SC KBE @ 8293.0ft (Original Well Elev) North American Datum 1983 Well UWF04B-10 H04 596, True North						
Type	Target	Azimuth	Origin	N/S	E/W	From
TD	No Target (Freehand)	158.83	Slot	0.0	0.0	TVD
						0.0
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	
UWF04B-10 TGT	7252.0	-3643.7	1440.1	39° 38' 8.24 N	108° 9' 36.00 W	
UWF04B-10 PBHL	10833.0	-3653.7	1423.1	39° 38' 8.14 N	108° 9' 36.22 W	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF04B-10 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF04B-10 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		

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	UWF04B-10 H04 596					
Well Position	+N/-S	0.0 ft	Northing:	1,671,058.50 ft	Latitude:	39° 38' 44.25 N
	+E/-W	0.0 ft	Easting:	2,249,614.61 ft	Longitude:	108° 9' 54.41 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	4/18/2012	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) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.0	0.0	0.0	158.83	

<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	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,319.7	33.59	158.43	1,256.6	-296.6	117.2	3.00	3.00	0.00	158.43	
7,248.4	33.59	158.43	6,195.4	-3,347.1	1,322.9	0.00	0.00	0.00	0.00	
8,368.1	0.00	0.00	7,252.0	-3,643.7	1,440.1	3.00	-3.00	0.00	180.00	UWF04B-10 TGT
10,175.5	0.42	239.70	9,059.3	-3,647.1	1,434.4	0.02	0.02	-6.66	239.70	
11,949.2	0.42	239.70	10,833.0	-3,653.7	1,423.1	0.00	0.00	0.00	0.00	UWF04B-10 PBHL
13,000.0	0.42	239.70	11,883.8	-3,657.6	1,416.4	0.00	0.00	0.00	0.00	

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## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well UWF04B-10 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF04B-10 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	KOP @ 200'
300.0	3.00	158.43	300.0	-2.4	1.0	2.6	3.00	3.00	
400.0	6.00	158.43	399.6	-9.7	3.8	10.5	3.00	3.00	
500.0	9.00	158.43	498.8	-21.9	8.6	23.5	3.00	3.00	
600.0	12.00	158.43	597.1	-38.8	15.3	41.7	3.00	3.00	
700.0	15.00	158.43	694.3	-60.5	23.9	65.1	3.00	3.00	
800.0	18.00	158.43	790.2	-86.9	34.4	93.5	3.00	3.00	
900.0	21.00	158.43	884.4	-118.0	46.6	126.8	3.00	3.00	
1,000.0	24.00	158.43	976.8	-153.6	60.7	165.1	3.00	3.00	
1,088.7	26.66	158.43	1,057.0	-188.9	74.6	203.1	3.00	3.00	A GROOVE
1,100.0	27.00	158.43	1,067.1	-193.6	76.5	208.2	3.00	3.00	
1,200.0	30.00	158.43	1,154.9	-238.0	94.0	255.9	3.00	3.00	
1,274.8	32.25	158.43	1,219.0	-273.9	108.3	294.5	3.00	3.00	B GROOVE
1,300.0	33.00	158.43	1,240.2	-286.5	113.3	308.1	3.00	3.00	
1,319.7	33.59	158.43	1,256.6	-296.6	117.2	318.9	3.00	3.00	EOB @ Inc. = 33.59°
1,322.5	33.59	158.43	1,259.0	-298.1	117.8	320.5	0.00	0.00	B GROOVE BASE
1,400.0	33.59	158.43	1,323.5	-337.9	133.6	363.3	0.00	0.00	
1,500.0	33.59	158.43	1,406.8	-389.4	153.9	418.7	0.00	0.00	
1,600.0	33.59	158.43	1,490.1	-440.8	174.2	474.0	0.00	0.00	
1,700.0	33.59	158.43	1,573.4	-492.3	194.6	529.3	0.00	0.00	
1,800.0	33.59	158.43	1,656.7	-543.7	214.9	584.6	0.00	0.00	
1,900.0	33.59	158.43	1,740.0	-595.2	235.2	640.0	0.00	0.00	
2,000.0	33.59	158.43	1,823.3	-646.6	255.6	695.3	0.00	0.00	
2,100.0	33.59	158.43	1,906.6	-698.1	275.9	750.6	0.00	0.00	
2,200.0	33.59	158.43	1,990.0	-749.5	296.2	805.9	0.00	0.00	
2,275.7	33.59	158.43	2,053.0	-788.5	311.6	847.8	0.00	0.00	GARDEN GULCH
2,300.0	33.59	158.43	2,073.3	-801.0	316.6	861.3	0.00	0.00	
2,400.0	33.59	158.43	2,156.6	-852.4	336.9	916.6	0.00	0.00	
2,500.0	33.59	158.43	2,239.9	-903.9	357.2	971.9	0.00	0.00	
2,600.0	33.59	158.43	2,323.2	-955.4	377.6	1,027.2	0.00	0.00	
2,700.0	33.59	158.43	2,406.5	-1,006.8	397.9	1,082.6	0.00	0.00	
2,800.0	33.59	158.43	2,489.8	-1,058.3	418.3	1,137.9	0.00	0.00	
2,900.0	33.59	158.43	2,573.1	-1,109.7	438.6	1,193.2	0.00	0.00	
3,000.0	33.59	158.43	2,656.4	-1,161.2	458.9	1,248.5	0.00	0.00	
3,100.0	33.59	158.43	2,739.7	-1,212.6	479.3	1,303.9	0.00	0.00	
3,200.0	33.59	158.43	2,823.0	-1,264.1	499.6	1,359.2	0.00	0.00	
3,300.0	33.59	158.43	2,906.3	-1,315.5	519.9	1,414.5	0.00	0.00	
3,400.0	33.59	158.43	2,989.6	-1,367.0	540.3	1,469.8	0.00	0.00	
3,500.0	33.59	158.43	3,072.9	-1,418.4	560.6	1,525.2	0.00	0.00	
3,573.4	33.59	158.43	3,134.0	-1,456.2	575.5	1,565.8	0.00	0.00	WASATCH FM
3,600.0	33.59	158.43	3,156.2	-1,469.9	580.9	1,580.5	0.00	0.00	
3,700.0	33.59	158.43	3,239.5	-1,521.3	601.3	1,635.8	0.00	0.00	
3,800.0	33.59	158.43	3,322.8	-1,572.8	621.6	1,691.1	0.00	0.00	
3,900.0	33.59	158.43	3,406.1	-1,624.2	641.9	1,746.5	0.00	0.00	
4,000.0	33.59	158.43	3,489.4	-1,675.7	662.3	1,801.8	0.00	0.00	
4,100.0	33.59	158.43	3,572.7	-1,727.1	682.6	1,857.1	0.00	0.00	
4,200.0	33.59	158.43	3,656.0	-1,778.6	703.0	1,912.4	0.00	0.00	
4,300.0	33.59	158.43	3,739.3	-1,830.0	723.3	1,967.8	0.00	0.00	
4,400.0	33.59	158.43	3,822.6	-1,881.5	743.6	2,023.1	0.00	0.00	
4,500.0	33.59	158.43	3,905.9	-1,933.0	764.0	2,078.4	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 UWF04B-10 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF04B-10 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
4,600.0	33.59	158.43	3,989.2	-1,984.4	784.3	2,133.7	0.00	0.00	
4,700.0	33.59	158.43	4,072.5	-2,035.9	804.6	2,189.0	0.00	0.00	
4,800.0	33.59	158.43	4,155.8	-2,087.3	825.0	2,244.4	0.00	0.00	
4,900.0	33.59	158.43	4,239.1	-2,138.8	845.3	2,299.7	0.00	0.00	
5,000.0	33.59	158.43	4,322.4	-2,190.2	865.6	2,355.0	0.00	0.00	
5,100.0	33.59	158.43	4,405.7	-2,241.7	886.0	2,410.3	0.00	0.00	
5,200.0	33.59	158.43	4,489.0	-2,293.1	906.3	2,465.7	0.00	0.00	
5,300.0	33.59	158.43	4,572.3	-2,344.6	926.6	2,521.0	0.00	0.00	
5,400.0	33.59	158.43	4,655.6	-2,396.0	947.0	2,576.3	0.00	0.00	
5,500.0	33.59	158.43	4,738.9	-2,447.5	967.3	2,631.6	0.00	0.00	
5,600.0	33.59	158.43	4,822.2	-2,498.9	987.7	2,687.0	0.00	0.00	
5,700.0	33.59	158.43	4,905.5	-2,550.4	1,008.0	2,742.3	0.00	0.00	
5,800.0	33.59	158.43	4,988.8	-2,601.8	1,028.3	2,797.6	0.00	0.00	
5,900.0	33.59	158.43	5,072.1	-2,653.3	1,048.7	2,852.9	0.00	0.00	
6,000.0	33.59	158.43	5,155.4	-2,704.7	1,069.0	2,908.3	0.00	0.00	
6,058.3	33.59	158.43	5,204.0	-2,734.8	1,080.9	2,940.5	0.00	0.00	WASATCH G
6,100.0	33.59	158.43	5,238.7	-2,756.2	1,089.3	2,963.6	0.00	0.00	
6,200.0	33.59	158.43	5,322.0	-2,807.7	1,109.7	3,018.9	0.00	0.00	
6,300.0	33.59	158.43	5,405.3	-2,859.1	1,130.0	3,074.2	0.00	0.00	
6,400.0	33.59	158.43	5,488.6	-2,910.6	1,150.3	3,129.6	0.00	0.00	
6,500.0	33.59	158.43	5,571.9	-2,962.0	1,170.7	3,184.9	0.00	0.00	
6,600.0	33.59	158.43	5,655.2	-3,013.5	1,191.0	3,240.2	0.00	0.00	
6,700.0	33.59	158.43	5,738.5	-3,064.9	1,211.3	3,295.5	0.00	0.00	
6,800.0	33.59	158.43	5,821.8	-3,116.4	1,231.7	3,350.9	0.00	0.00	
6,900.0	33.59	158.43	5,905.1	-3,167.8	1,252.0	3,406.2	0.00	0.00	
7,000.0	33.59	158.43	5,988.4	-3,219.3	1,272.4	3,461.5	0.00	0.00	
7,100.0	33.59	158.43	6,071.7	-3,270.7	1,292.7	3,516.8	0.00	0.00	
7,200.0	33.59	158.43	6,155.0	-3,322.2	1,313.0	3,572.2	0.00	0.00	
7,248.4	33.59	158.43	6,195.4	-3,347.1	1,322.9	3,599.0	0.00	0.00	Start 3° Drop
7,300.0	32.04	158.43	6,238.7	-3,373.1	1,333.1	3,626.9	3.00	-3.00	
7,400.0	29.04	158.43	6,324.8	-3,420.3	1,351.8	3,677.7	3.00	-3.00	
7,500.0	26.04	158.43	6,413.5	-3,463.3	1,368.8	3,723.9	3.00	-3.00	
7,600.0	23.04	158.43	6,504.4	-3,502.0	1,384.1	3,765.5	3.00	-3.00	
7,700.0	20.04	158.43	6,597.4	-3,536.1	1,397.6	3,802.2	3.00	-3.00	
7,800.0	17.04	158.43	6,692.2	-3,565.7	1,409.3	3,834.0	3.00	-3.00	
7,900.0	14.04	158.43	6,788.5	-3,590.6	1,419.1	3,860.8	3.00	-3.00	
8,000.0	11.04	158.43	6,886.1	-3,610.8	1,427.1	3,882.5	3.00	-3.00	
8,100.0	8.04	158.43	6,984.8	-3,626.2	1,433.2	3,899.1	3.00	-3.00	
8,200.0	5.04	158.43	7,084.1	-3,636.8	1,437.4	3,910.5	3.00	-3.00	
8,300.0	2.04	158.43	7,183.9	-3,642.6	1,439.7	3,916.7	3.00	-3.00	
8,368.1	0.00	0.00	7,252.0	-3,643.7	1,440.1	3,917.9	3.00	-3.00	EOD @ Inc. = 0° - WILLIAMS FORK
8,400.0	0.01	239.70	7,283.9	-3,643.7	1,440.1	3,917.9	0.02	0.02	
8,500.0	0.03	239.70	7,383.9	-3,643.7	1,440.1	3,917.9	0.02	0.02	
8,600.0	0.05	239.70	7,483.9	-3,643.8	1,440.0	3,917.9	0.02	0.02	
8,700.0	0.08	239.70	7,583.9	-3,643.8	1,439.9	3,917.9	0.02	0.02	
8,800.0	0.10	239.70	7,683.9	-3,643.9	1,439.8	3,917.9	0.02	0.02	
8,900.0	0.12	239.70	7,783.9	-3,644.0	1,439.6	3,918.0	0.02	0.02	
9,000.0	0.15	239.70	7,883.9	-3,644.1	1,439.4	3,918.0	0.02	0.02	
9,100.0	0.17	239.70	7,983.9	-3,644.3	1,439.2	3,918.0	0.02	0.02	
9,200.0	0.19	239.70	8,083.9	-3,644.4	1,438.9	3,918.1	0.02	0.02	
9,300.0	0.22	239.70	8,183.9	-3,644.6	1,438.6	3,918.2	0.02	0.02	
9,400.0	0.24	239.70	8,283.9	-3,644.8	1,438.2	3,918.2	0.02	0.02	

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## Planning Report

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<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF04B-10 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
9,500.0	0.26	239.70	8,383.9	-3,645.0	1,437.8	3,918.3	0.02	0.02	
9,600.0	0.29	239.70	8,483.9	-3,645.3	1,437.4	3,918.4	0.02	0.02	
9,700.0	0.31	239.70	8,583.9	-3,645.5	1,437.0	3,918.4	0.02	0.02	
9,800.0	0.33	239.70	8,683.9	-3,645.8	1,436.5	3,918.5	0.02	0.02	
9,900.0	0.36	239.70	8,783.9	-3,646.1	1,436.0	3,918.6	0.02	0.02	
10,000.0	0.38	239.70	8,883.9	-3,646.4	1,435.4	3,918.7	0.02	0.02	
10,100.0	0.40	239.70	8,983.9	-3,646.8	1,434.8	3,918.8	0.02	0.02	
10,175.5	0.42	239.70	9,059.3	-3,647.1	1,434.4	3,918.9	0.02	0.02	
10,200.0	0.42	239.70	9,083.9	-3,647.2	1,434.2	3,919.0	0.00	0.00	
10,300.0	0.42	239.70	9,183.9	-3,647.5	1,433.6	3,919.1	0.00	0.00	
10,400.0	0.42	239.70	9,283.8	-3,647.9	1,432.9	3,919.2	0.00	0.00	
10,500.0	0.42	239.70	9,383.8	-3,648.3	1,432.3	3,919.3	0.00	0.00	
10,600.0	0.42	239.70	9,483.8	-3,648.6	1,431.7	3,919.4	0.00	0.00	
10,700.0	0.42	239.70	9,583.8	-3,649.0	1,431.0	3,919.5	0.00	0.00	
10,800.0	0.42	239.70	9,683.8	-3,649.4	1,430.4	3,919.7	0.00	0.00	
10,900.0	0.42	239.70	9,783.8	-3,649.8	1,429.7	3,919.8	0.00	0.00	
11,000.0	0.42	239.70	9,883.8	-3,650.1	1,429.1	3,919.9	0.00	0.00	
11,100.0	0.42	239.70	9,983.8	-3,650.5	1,428.5	3,920.0	0.00	0.00	
11,200.0	0.42	239.70	10,083.8	-3,650.9	1,427.8	3,920.1	0.00	0.00	
11,300.0	0.42	239.70	10,183.8	-3,651.2	1,427.2	3,920.2	0.00	0.00	
11,400.0	0.42	239.70	10,283.8	-3,651.6	1,426.6	3,920.4	0.00	0.00	
11,500.0	0.42	239.70	10,383.8	-3,652.0	1,425.9	3,920.5	0.00	0.00	
11,600.0	0.42	239.70	10,483.8	-3,652.4	1,425.3	3,920.6	0.00	0.00	
11,700.0	0.42	239.70	10,583.8	-3,652.7	1,424.7	3,920.7	0.00	0.00	
11,800.0	0.42	239.70	10,683.8	-3,653.1	1,424.0	3,920.8	0.00	0.00	
11,900.0	0.42	239.70	10,783.8	-3,653.5	1,423.4	3,920.9	0.00	0.00	
11,949.2	0.42	239.70	10,833.0	-3,653.7	1,423.1	3,921.0	0.00	0.00	TD @ 11,949.2' MD - ROLLINS
12,000.0	0.42	239.70	10,883.8	-3,653.8	1,422.7	3,921.1	0.00	0.00	
12,100.0	0.42	239.70	10,983.8	-3,654.2	1,422.1	3,921.2	0.00	0.00	
12,200.0	0.42	239.70	11,083.8	-3,654.6	1,421.5	3,921.3	0.00	0.00	
12,204.2	0.42	239.70	11,088.0	-3,654.6	1,421.4	3,921.3	0.00	0.00	COZZETTE
12,300.0	0.42	239.70	11,183.8	-3,655.0	1,420.8	3,921.4	0.00	0.00	
12,381.2	0.42	239.70	11,265.0	-3,655.3	1,420.3	3,921.5	0.00	0.00	CORCORAN
12,400.0	0.42	239.70	11,283.8	-3,655.3	1,420.2	3,921.5	0.00	0.00	
12,500.0	0.42	239.70	11,383.8	-3,655.7	1,419.6	3,921.6	0.00	0.00	
12,600.0	0.42	239.70	11,483.8	-3,656.1	1,418.9	3,921.8	0.00	0.00	
12,676.2	0.42	239.70	11,560.0	-3,656.4	1,418.4	3,921.9	0.00	0.00	UPPER SEGO
12,700.0	0.42	239.70	11,583.8	-3,656.4	1,418.3	3,921.9	0.00	0.00	
12,800.0	0.42	239.70	11,683.8	-3,656.8	1,417.7	3,922.0	0.00	0.00	
12,900.0	0.42	239.70	11,783.8	-3,657.2	1,417.0	3,922.1	0.00	0.00	
13,000.0	0.42	239.70	11,883.8	-3,657.6	1,416.4	3,922.2	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 UWF04B-10 H04 596
<b>Company:</b>	EnCana Oil & Gas (USA) Inc	<b>TVD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Project:</b>	North Piceance	<b>MD Reference:</b>	KBE @ 8293.0ft (Original Well Elev)
<b>Site:</b>	H04 Pad	<b>North Reference:</b>	True
<b>Well:</b>	UWF04B-10 H04 596	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	DD		
<b>Design:</b>	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)		
UWF04B-10 TGT	0.00	0.00	7,252.0	-3,643.7	1,440.1	1,667,374.12	2,250,947.21	39° 38' 8.24 N	108° 9' 36.00 W
- plan hits target center									
- Point									
UWF04B-10 PBHL	0.00	0.00	10,833.0	-3,653.7	1,423.1	1,667,364.68	2,250,929.90	39° 38' 8.14 N	108° 9' 36.22 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)			(°)	(°)	
1,088.7	1,057.0	A GROOVE				
1,274.8	1,219.0	B GROOVE				
1,322.5	1,259.0	B GROOVE BASE				
2,275.7	2,053.0	GARDEN GULCH				
3,573.4	3,134.0	WASATCH FM				
6,058.3	5,204.0	WASATCH G				
8,368.1	7,252.0	WILLIAMS FORK				
11,949.2	10,833.0	ROLLINS				
12,204.2	11,088.0	COZZETTE				
12,381.2	11,265.0	CORCORAN				
12,676.2	11,560.0	UPPER SEGO				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
200.0	200.0	0.0	0.0	KOP @ 200'
1,319.7	1,256.6	-296.6	117.2	EOB @ Inc. = 33.59°
7,248.4	6,195.4	-3,347.1	1,322.9	Start 3° Drop
8,368.1	7,252.0	-3,643.7	1,440.1	EOD @ Inc. = 0°
11,949.2	10,833.0	-3,653.7	1,423.1	TD @ 11,949.2' MD
13,000.0	11,883.8	-3,657.6	1,416.4	Permit TD @ 13,000' MD