



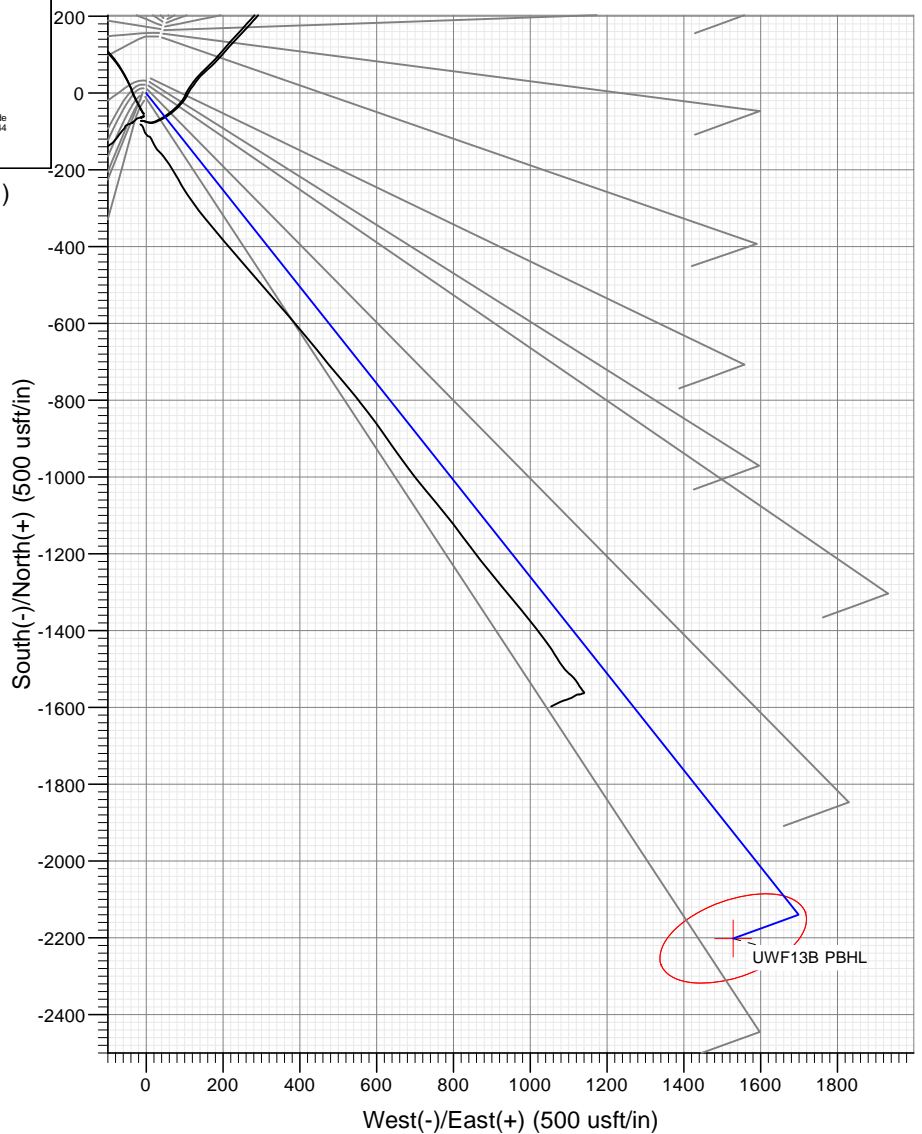
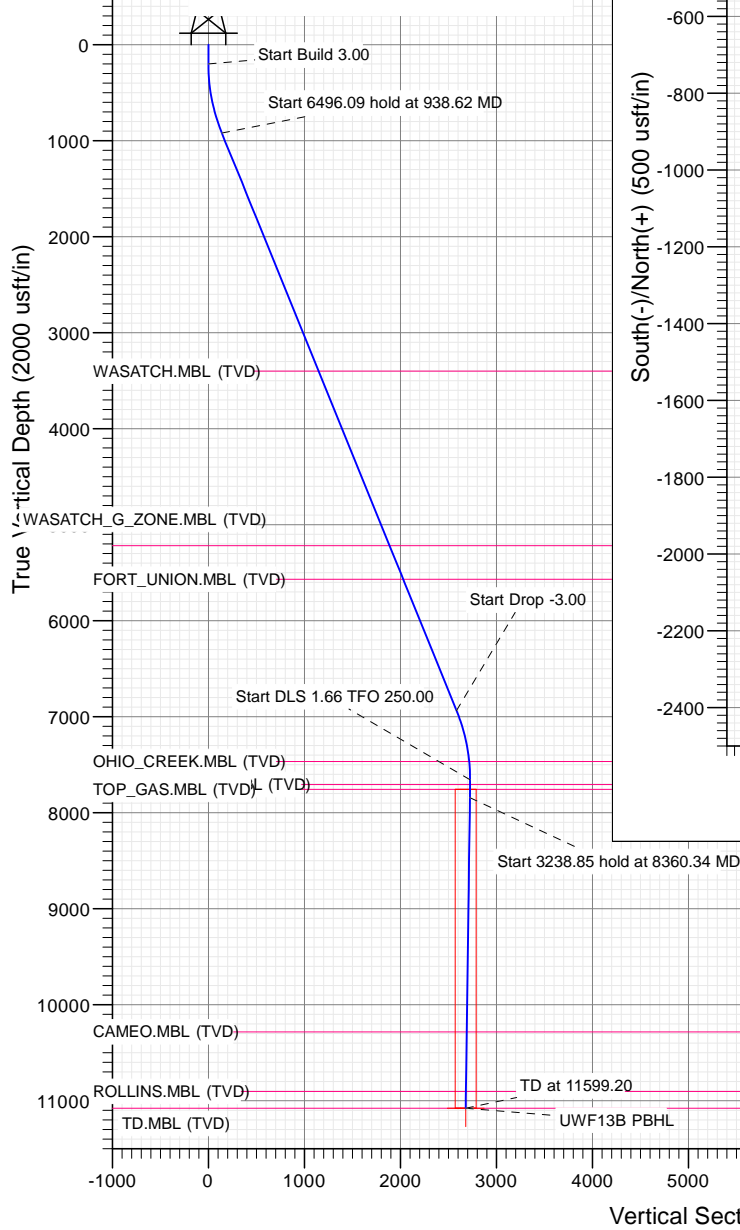
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	938.62	22.16	141.55	920.34	-110.47	87.71	3.00	141.55	140.77	
4	7434.71	22.16	141.55	6936.66	-2029.35	1611.21	0.00	0.00	2585.87	
5	8173.33	0.00	0.00	7657.00	-2139.82	1698.92	3.00	180.00	2726.64	
6	8360.34	3.11	250.00	7843.92	-2141.56	1694.15	1.66	250.00	2725.34	
7	11599.20	3.11	250.00	11078.00	-2201.69	1528.92	0.00	0.00	2680.49	UWF13B PBHL

PLAN #2
UWF13B-03H H04 596
30' KB @ 8300.00ust
Ground Level @ 8270.00
NAD 1987 - Western US
Well UWF13B-03H H04 596 - Slot UWF13B-03H04596, True North

Type	Target	Target	Target	Target	Target	Target	Target	Target	Target	Target
TD	No Target	No Target	No Target	No Target	No Target	No Target	No Target	No Target	No Target	No Target
Name	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL	UWF13B PBHL
TVD	11078.00	11078.00	11078.00	11078.00	11078.00	11078.00	11078.00	11078.00	11078.00	11078.00
+N/-S	-2201.69	-2201.69	-2201.69	-2201.69	-2201.69	-2201.69	-2201.69	-2201.69	-2201.69	-2201.69
+E/-W	1528.92	1528.92	1528.92	1528.92	1528.92	1528.92	1528.92	1528.92	1528.92	1528.92
Latitude	39.639633	39.639633	39.639633	39.639633	39.639633	39.639633	39.639633	39.639633	39.639633	39.639633
Longitude	-108.159044	-108.159044	-108.159044	-108.159044	-108.159044	-108.159044	-108.159044	-108.159044	-108.159044	-108.159044

Project: Garfield County, CO (UTM 12N)
Site: S4-T5S-R96W (H04)
Well: UWF13B-03H H04 596
Wellbore: OH
Design: PLAN #2



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3400.00	3616.02	WASATCH.MBL (TVD)
5218.00	5579.00	WASATCH_G_ZONE.MBL (TVD)
5568.00	5956.91	FORT_UNION.MBL (TVD)
7467.00	7983.01	OHIO_CREEK.MBL (TVD)
7707.00	8223.33	WILLIAMS_FORK.MBL (TVD)
7757.00	8273.34	TOP_GAS.MBL (TVD)
10283.00	10803.02	CAMEO.MBL (TVD)
10903.00	11423.94	ROLLINS.MBL (TVD)
11078.00	11599.20	TD.MBL (TVD)



Azimuths to True North
Magnetic North: 9.72°

Magnetic Field
Strength: 51509.4snT
Dip Angle: 65.93°
Date: 8/31/2017
Model: HDGM

Vertical Section at 145.22° (2000 usft/in)

WELL DETAILS: UWF13B-03H H04 596

8270.00
+N/-S 0.00 +E/-W 0.00 Northing 14409635.40 Easting 2438680.50 Latitude 39.645675 Longitude -108.16447UW13B-03H04596

CATHEDRAL





Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13B-03H H04 596 - Slot UWF13B-03H
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8300.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8300.00usft
Site:	S4-T5S-R96W (H04)	North Reference:	True
Well:	UWF13B-03H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Project	Garfield County, CO (UTM 12N)		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	S4-T5S-R96W (H04)		
Site Position:		Northing:	14,409,713.20 usft
From:	Map	Easting:	2,438,700.39 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	39.645887
		Longitude:	-108.164391
		Grid Convergence:	1.81 °

Well	UWF13B-03H H04 596 - Slot UWF13B-03H04596					
Well Position	+N/-S	0.00 usft	Northing:	14,409,635.40 usft	Latitude:	39.645675
	+E/-W	0.00 usft	Easting:	2,438,680.50 usft	Longitude:	-108.164471
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	8,270.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	8/31/2017	9.72	65.93	51,509.40000000

Design	PLAN #2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	145.22	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
938.62	22.16	141.55	920.34	-110.47	87.71	3.00	3.00	0.00	141.55	
7,434.71	22.16	141.55	6,936.66	-2,029.35	1,611.21	0.00	0.00	0.00	0.00	
8,173.33	0.00	0.00	7,657.00	-2,139.82	1,698.92	3.00	-3.00	0.00	180.00	
8,360.34	3.11	250.00	7,843.92	-2,141.56	1,694.15	1.66	1.66	-58.82	250.00	
11,599.20	3.11	250.00	11,078.00	-2,201.69	1,528.92	0.00	0.00	0.00	0.00	UWF13B PBHL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13B-03H H04 596 - Slot UWF13B-03H
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8300.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8300.00usft
Site:	S4-T5S-R96W (H04)	North Reference:	True
Well:	UWF13B-03H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
300.00	3.00	141.55	299.95	-2.05	1.63	2.61	3.00	3.00	
400.00	6.00	141.55	399.63	-8.19	6.51	10.44	3.00	3.00	
500.00	9.00	141.55	498.77	-18.42	14.62	23.47	3.00	3.00	
600.00	12.00	141.55	597.08	-32.69	25.95	41.65	3.00	3.00	
700.00	15.00	141.55	694.31	-50.97	40.47	64.94	3.00	3.00	
800.00	18.00	141.55	790.18	-73.21	58.12	93.28	3.00	3.00	
900.00	21.00	141.55	884.43	-99.35	78.88	126.59	3.00	3.00	
938.62	22.16	141.55	920.34	-110.47	87.71	140.77	3.00	3.00	Start 6496.09 hold at 938.62 MD
1,000.00	22.16	141.55	977.19	-128.60	102.10	163.87	0.00	0.00	
1,100.00	22.16	141.55	1,069.81	-158.14	125.56	201.51	0.00	0.00	
1,200.00	22.16	141.55	1,162.42	-187.68	149.01	239.15	0.00	0.00	
1,300.00	22.16	141.55	1,255.03	-217.22	172.46	276.79	0.00	0.00	
1,400.00	22.16	141.55	1,347.65	-246.76	195.91	314.43	0.00	0.00	
1,500.00	22.16	141.55	1,440.26	-276.30	219.37	352.07	0.00	0.00	
1,600.00	22.16	141.55	1,532.88	-305.84	242.82	389.71	0.00	0.00	
1,700.00	22.16	141.55	1,625.49	-335.37	266.27	427.35	0.00	0.00	
1,800.00	22.16	141.55	1,718.11	-364.91	289.73	464.99	0.00	0.00	
1,900.00	22.16	141.55	1,810.72	-394.45	313.18	502.63	0.00	0.00	
2,000.00	22.16	141.55	1,903.34	-423.99	336.63	540.27	0.00	0.00	
2,100.00	22.16	141.55	1,995.95	-453.53	360.08	577.91	0.00	0.00	
2,200.00	22.16	141.55	2,088.56	-483.07	383.54	615.55	0.00	0.00	
2,300.00	22.16	141.55	2,181.18	-512.61	406.99	653.19	0.00	0.00	
2,400.00	22.16	141.55	2,273.79	-542.15	430.44	690.83	0.00	0.00	
2,500.00	22.16	141.55	2,366.41	-571.69	453.89	728.46	0.00	0.00	
2,600.00	22.16	141.55	2,459.02	-601.23	477.35	766.10	0.00	0.00	
2,700.00	22.16	141.55	2,551.64	-630.76	500.80	803.74	0.00	0.00	
2,800.00	22.16	141.55	2,644.25	-660.30	524.25	841.38	0.00	0.00	
2,900.00	22.16	141.55	2,736.86	-689.84	547.70	879.02	0.00	0.00	
3,000.00	22.16	141.55	2,829.48	-719.38	571.16	916.66	0.00	0.00	
3,100.00	22.16	141.55	2,922.09	-748.92	594.61	954.30	0.00	0.00	
3,200.00	22.16	141.55	3,014.71	-778.46	618.06	991.94	0.00	0.00	
3,300.00	22.16	141.55	3,107.32	-808.00	641.51	1,029.58	0.00	0.00	
3,400.00	22.16	141.55	3,199.94	-837.54	664.97	1,067.22	0.00	0.00	
3,500.00	22.16	141.55	3,292.55	-867.08	688.42	1,104.86	0.00	0.00	
3,600.00	22.16	141.55	3,385.17	-896.62	711.87	1,142.50	0.00	0.00	
3,616.02	22.16	141.55	3,400.00	-901.35	715.63	1,148.53	0.00	0.00	WASATCH.MBL (TVD)
3,700.00	22.16	141.55	3,477.78	-926.15	735.32	1,180.14	0.00	0.00	
3,800.00	22.16	141.55	3,570.39	-955.69	758.78	1,217.78	0.00	0.00	
3,900.00	22.16	141.55	3,663.01	-985.23	782.23	1,255.42	0.00	0.00	
4,000.00	22.16	141.55	3,755.62	-1,014.77	805.68	1,293.06	0.00	0.00	
4,100.00	22.16	141.55	3,848.24	-1,044.31	829.14	1,330.70	0.00	0.00	
4,200.00	22.16	141.55	3,940.85	-1,073.85	852.59	1,368.34	0.00	0.00	
4,300.00	22.16	141.55	4,033.47	-1,103.39	876.04	1,405.98	0.00	0.00	
4,400.00	22.16	141.55	4,126.08	-1,132.93	899.49	1,443.62	0.00	0.00	
4,500.00	22.16	141.55	4,218.69	-1,162.47	922.95	1,481.26	0.00	0.00	
4,600.00	22.16	141.55	4,311.31	-1,192.01	946.40	1,518.90	0.00	0.00	
4,700.00	22.16	141.55	4,403.92	-1,221.54	969.85	1,556.54	0.00	0.00	
4,800.00	22.16	141.55	4,496.54	-1,251.08	993.30	1,594.18	0.00	0.00	
4,900.00	22.16	141.55	4,589.15	-1,280.62	1,016.76	1,631.82	0.00	0.00	



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13B-03H H04 596 - Slot UWF13B-03H
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8300.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8300.00usft
Site:	S4-T5S-R96W (H04)	North Reference:	True
Well:	UWF13B-03H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
5,000.00	22.16	141.55	4,681.77	-1,310.16	1,040.21	1,669.46	0.00	0.00	
5,100.00	22.16	141.55	4,774.38	-1,339.70	1,063.66	1,707.10	0.00	0.00	
5,200.00	22.16	141.55	4,867.00	-1,369.24	1,087.11	1,744.74	0.00	0.00	
5,300.00	22.16	141.55	4,959.61	-1,398.78	1,110.57	1,782.38	0.00	0.00	
5,400.00	22.16	141.55	5,052.22	-1,428.32	1,134.02	1,820.02	0.00	0.00	
5,500.00	22.16	141.55	5,144.84	-1,457.86	1,157.47	1,857.66	0.00	0.00	
5,579.00	22.16	141.55	5,218.00	-1,481.19	1,176.00	1,887.39	0.00	0.00	WASATCH_G_ZONE.MBL (TVD)
5,600.00	22.16	141.55	5,237.45	-1,487.40	1,180.92	1,895.29	0.00	0.00	
5,700.00	22.16	141.55	5,330.07	-1,516.93	1,204.38	1,932.93	0.00	0.00	
5,800.00	22.16	141.55	5,422.68	-1,546.47	1,227.83	1,970.57	0.00	0.00	
5,900.00	22.16	141.55	5,515.30	-1,576.01	1,251.28	2,008.21	0.00	0.00	
5,956.91	22.16	141.55	5,568.00	-1,592.82	1,264.63	2,029.63	0.00	0.00	FORT_UNION.MBL (TVD)
6,000.00	22.16	141.55	5,607.91	-1,605.55	1,274.73	2,045.85	0.00	0.00	
6,100.00	22.16	141.55	5,700.52	-1,635.09	1,298.19	2,083.49	0.00	0.00	
6,200.00	22.16	141.55	5,793.14	-1,664.63	1,321.64	2,121.13	0.00	0.00	
6,300.00	22.16	141.55	5,885.75	-1,694.17	1,345.09	2,158.77	0.00	0.00	
6,400.00	22.16	141.55	5,978.37	-1,723.71	1,368.55	2,196.41	0.00	0.00	
6,500.00	22.16	141.55	6,070.98	-1,753.25	1,392.00	2,234.05	0.00	0.00	
6,600.00	22.16	141.55	6,163.60	-1,782.79	1,415.45	2,271.69	0.00	0.00	
6,700.00	22.16	141.55	6,256.21	-1,812.32	1,438.90	2,309.33	0.00	0.00	
6,800.00	22.16	141.55	6,348.83	-1,841.86	1,462.36	2,346.97	0.00	0.00	
6,900.00	22.16	141.55	6,441.44	-1,871.40	1,485.81	2,384.61	0.00	0.00	
7,000.00	22.16	141.55	6,534.05	-1,900.94	1,509.26	2,422.25	0.00	0.00	
7,100.00	22.16	141.55	6,626.67	-1,930.48	1,532.71	2,459.89	0.00	0.00	
7,200.00	22.16	141.55	6,719.28	-1,960.02	1,556.17	2,497.53	0.00	0.00	
7,300.00	22.16	141.55	6,811.90	-1,989.56	1,579.62	2,535.17	0.00	0.00	
7,400.00	22.16	141.55	6,904.51	-2,019.10	1,603.07	2,572.81	0.00	0.00	
7,434.71	22.16	141.55	6,936.66	-2,029.35	1,611.21	2,585.87	0.00	0.00	Start Drop -3.00
7,500.00	20.20	141.55	6,997.54	-2,047.82	1,625.88	2,609.41	3.00	-3.00	
7,600.00	17.20	141.55	7,092.25	-2,072.93	1,645.81	2,641.40	3.00	-3.00	
7,700.00	14.20	141.55	7,188.50	-2,094.12	1,662.64	2,668.40	3.00	-3.00	
7,800.00	11.20	141.55	7,286.05	-2,111.33	1,676.30	2,690.34	3.00	-3.00	
7,900.00	8.20	141.55	7,384.61	-2,124.53	1,686.78	2,707.15	3.00	-3.00	
7,983.01	5.71	141.55	7,467.00	-2,132.40	1,693.03	2,717.18	3.00	-3.00	OHIO_CREEK.MBL (TVD)
8,000.00	5.20	141.55	7,483.91	-2,133.66	1,694.03	2,718.80	3.00	-3.00	
8,100.00	2.20	141.55	7,583.69	-2,138.72	1,698.04	2,725.23	3.00	-3.00	
8,173.33	0.00	0.00	7,657.00	-2,139.82	1,698.92	2,726.64	3.00	-3.00	Start DLS 1.66 TFO 250.00
8,200.00	0.44	250.00	7,683.67	-2,139.86	1,698.82	2,726.61	1.66	1.66	
8,223.33	0.83	250.00	7,707.00	-2,139.94	1,698.58	2,726.55	1.66	1.66	WILLIAMS_FORK.MBL (TVD)
8,273.34	1.66	250.00	7,757.00	-2,140.32	1,697.56	2,726.27	1.66	1.66	TOP_GAS.MBL (TVD)
8,300.00	2.11	250.00	7,783.64	-2,140.62	1,696.73	2,726.04	1.66	1.66	
8,360.34	3.11	250.00	7,843.92	-2,141.56	1,694.15	2,725.34	1.66	1.66	Start 3238.85 hold at 8360.34 MD
8,400.00	3.11	250.00	7,883.52	-2,142.29	1,692.13	2,724.79	0.00	0.00	
8,500.00	3.11	250.00	7,983.38	-2,144.15	1,687.02	2,723.41	0.00	0.00	
8,600.00	3.11	250.00	8,083.23	-2,146.01	1,681.92	2,722.02	0.00	0.00	
8,700.00	3.11	250.00	8,183.08	-2,147.86	1,676.82	2,720.64	0.00	0.00	
8,800.00	3.11	250.00	8,282.93	-2,149.72	1,671.72	2,719.26	0.00	0.00	
8,900.00	3.11	250.00	8,382.79	-2,151.58	1,666.62	2,717.87	0.00	0.00	
9,000.00	3.11	250.00	8,482.64	-2,153.43	1,661.52	2,716.49	0.00	0.00	
9,100.00	3.11	250.00	8,582.49	-2,155.29	1,656.41	2,715.10	0.00	0.00	
9,200.00	3.11	250.00	8,682.34	-2,157.15	1,651.31	2,713.72	0.00	0.00	
9,300.00	3.11	250.00	8,782.20	-2,159.00	1,646.21	2,712.33	0.00	0.00	



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF13B-03H H04 596 - Slot UWF13B-03H
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8300.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8300.00usft
Site:	S4-T5S-R96W (H04)	North Reference:	True
Well:	UWF13B-03H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
9,400.00	3.11	250.00	8,882.05	-2,160.86	1,641.11	2,710.95	0.00	0.00	
9,500.00	3.11	250.00	8,981.90	-2,162.72	1,636.01	2,709.56	0.00	0.00	
9,600.00	3.11	250.00	9,081.75	-2,164.57	1,630.91	2,708.18	0.00	0.00	
9,700.00	3.11	250.00	9,181.61	-2,166.43	1,625.80	2,706.79	0.00	0.00	
9,800.00	3.11	250.00	9,281.46	-2,168.29	1,620.70	2,705.41	0.00	0.00	
9,900.00	3.11	250.00	9,381.31	-2,170.14	1,615.60	2,704.02	0.00	0.00	
10,000.00	3.11	250.00	9,481.16	-2,172.00	1,610.50	2,702.64	0.00	0.00	
10,100.00	3.11	250.00	9,581.02	-2,173.86	1,605.40	2,701.25	0.00	0.00	
10,200.00	3.11	250.00	9,680.87	-2,175.71	1,600.30	2,699.87	0.00	0.00	
10,300.00	3.11	250.00	9,780.72	-2,177.57	1,595.20	2,698.48	0.00	0.00	
10,400.00	3.11	250.00	9,880.57	-2,179.43	1,590.09	2,697.10	0.00	0.00	
10,500.00	3.11	250.00	9,980.43	-2,181.28	1,584.99	2,695.71	0.00	0.00	
10,600.00	3.11	250.00	10,080.28	-2,183.14	1,579.89	2,694.33	0.00	0.00	
10,700.00	3.11	250.00	10,180.13	-2,185.00	1,574.79	2,692.94	0.00	0.00	
10,800.00	3.11	250.00	10,279.98	-2,186.86	1,569.69	2,691.56	0.00	0.00	
10,803.02	3.11	250.00	10,283.00	-2,186.91	1,569.53	2,691.52	0.00	0.00	CAMEO.MBL (TVD)
10,900.00	3.11	250.00	10,379.84	-2,188.71	1,564.59	2,690.17	0.00	0.00	
11,000.00	3.11	250.00	10,479.69	-2,190.57	1,559.48	2,688.79	0.00	0.00	
11,100.00	3.11	250.00	10,579.54	-2,192.43	1,554.38	2,687.41	0.00	0.00	
11,200.00	3.11	250.00	10,679.39	-2,194.28	1,549.28	2,686.02	0.00	0.00	
11,300.00	3.11	250.00	10,779.25	-2,196.14	1,544.18	2,684.64	0.00	0.00	
11,400.00	3.11	250.00	10,879.10	-2,198.00	1,539.08	2,683.25	0.00	0.00	
11,423.94	3.11	250.00	10,903.00	-2,198.44	1,537.86	2,682.92	0.00	0.00	ROLLINS.MBL (TVD)
11,500.00	3.11	250.00	10,978.95	-2,199.85	1,533.98	2,681.87	0.00	0.00	
11,599.20	3.11	250.00	11,078.00	-2,201.69	1,528.92	2,680.49	0.00	0.00	TD at 11599.20 - TD.MBL (TVD)

Targets									
Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
UWF13B PBHL	- plan hits target center	0.00	0.00	11,078.00	-2,201.69	1,528.92	14,407,483.10	2,440,278.20	39.639633 -108.159044
	- Ellipse (radii L200.00 W100.00 on 250.00 azi)								

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,616.02	3,400.00	WASATCH.MBL (TVD)		0.00		
5,579.00	5,218.00	WASATCH_G_ZONE.MBL (TVD)				
5,956.91	5,568.00	FORT_UNION.MBL (TVD)				
7,983.01	7,467.00	OHIO_CREEK.MBL (TVD)				
8,223.33	7,707.00	WILLIAMS_FORK.MBL (TVD)				
8,273.34	7,757.00	TOP_GAS.MBL (TVD)				
10,803.02	10,283.00	CAMEO.MBL (TVD)				
11,423.94	10,903.00	ROLLINS.MBL (TVD)				
11,599.20	11,078.00	TD.MBL (TVD)				



Cathedral Energy Services

Planning Report

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Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8300.00usft
Site:	S4-T5S-R96W (H04)	North Reference:	True
Well:	UWF13B-03H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.00	200.00	0.00	0.00	Start Build 3.00
938.62	920.34	-110.47	87.71	Start 6496.09 hold at 938.62 MD
7,434.71	6,936.66	-2,029.35	1,611.21	Start Drop -3.00
8,173.33	7,657.00	-2,139.82	1,698.92	Start DLS 1.66 TFO 250.00
8,360.34	7,843.92	-2,141.56	1,694.15	Start 3238.85 hold at 8360.34 MD
11,599.20	11,078.00	-2,201.69	1,528.92	TD at 11599.20