



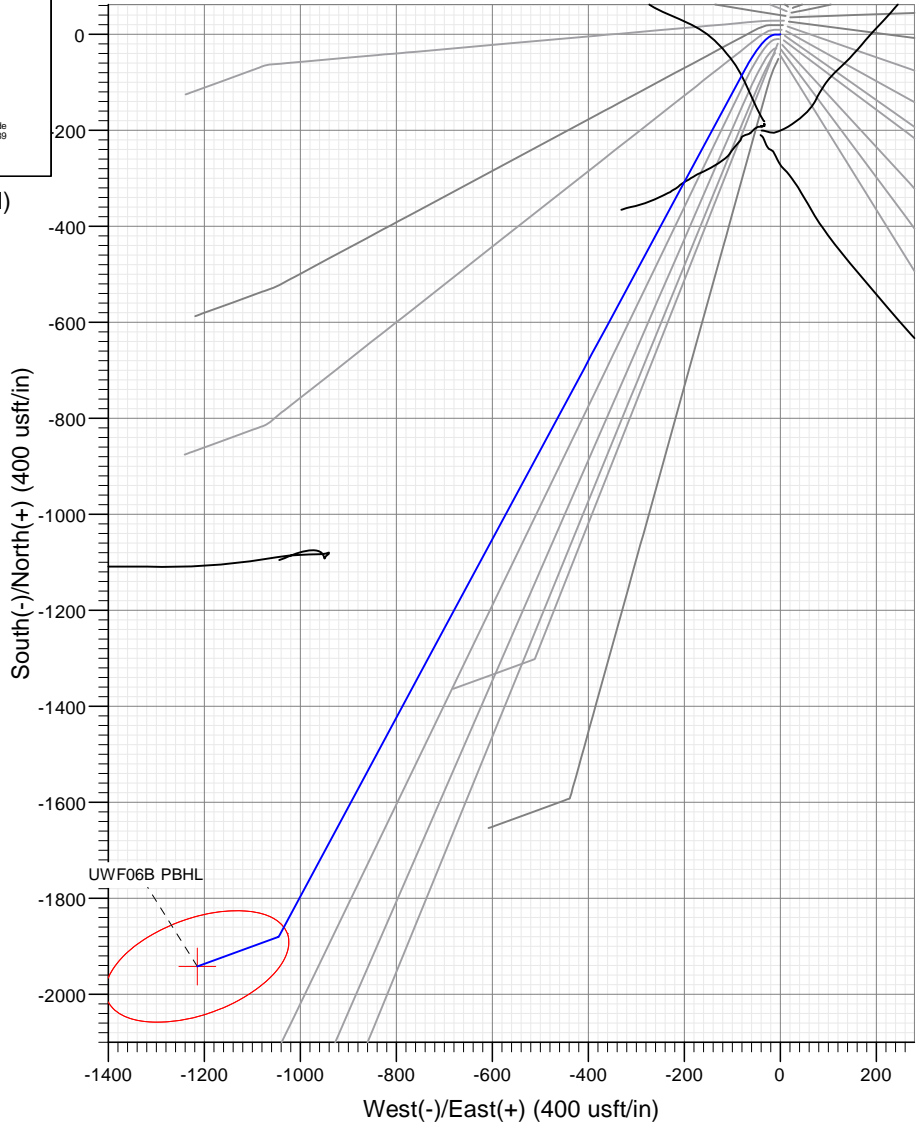
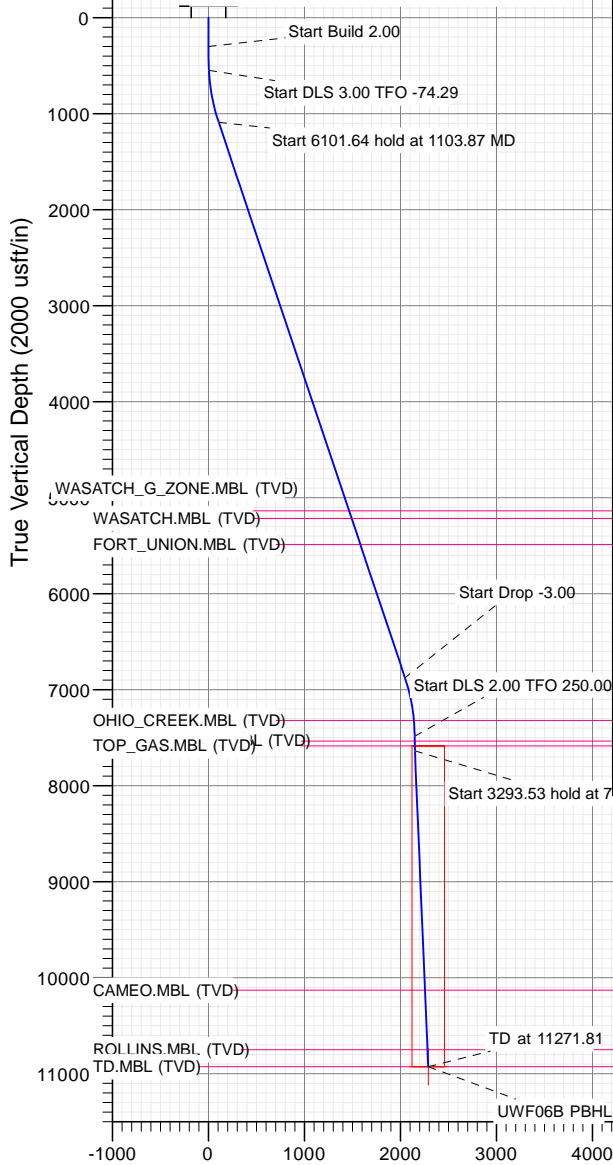
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	550.00	5.00	268.00	549.68	-0.38	-10.89	2.00	268.00	6.10	
4	1103.87	18.59	208.27	1091.86	-79.52	-77.28	3.00	-74.29	108.40	
5	7205.50	18.59	208.27	6875.29	-1792.34	-998.24	0.00	0.00	2048.92	
6	7825.02	0.00	0.00	7484.00	-1880.06	-1045.41	3.00	180.00	2148.31	
7	7978.28	3.07	250.00	7637.18	-1881.46	-1049.26	2.00	250.00	2151.54	
8	11271.81	3.07	250.00	10926.00	-1941.70	-1214.74	0.00	0.00	2290.37	UWF06B PBHL

PLAN #1
UWF06B-04H H04 596
30 KS @ 8300.00usf
Ground Level @ 8270.00
NAD 1987 - Western US
Well UWF06B-04H H04 596, True North

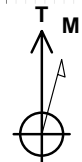
Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
TD	No Target (Freehand)	212.03	Slot	0.00	0.00	0.00	0.00	0.00
Name	UWF06B PBHL	TVD	+N/-S	+E/-W	Latitude	Longitude		
		10926.00	-1941.70	-1214.74	39.640697	-108.168689		

Project: Garfield County, CO (UTM 12N)
Site: S4-T5S-R96W (H04)
Well: UWF06B-04H H04 596
Wellbore: OH
Design: PLAN #1



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5137.00	5371.57	WASATCH_G_ZONE.MBL (TVD)
5217.00	5455.98	WASATCH.MBL (TVD)
5487.00	5740.83	FORT_UNION.MBL (TVD)
7320.00	7660.82	OHIO_CREEK.MBL (TVD)
7534.00	7875.03	WILLIAMS_FORK.MBL (TVD)
7584.00	7925.04	TOP_GAS.MBL (TVD)
10131.00	10475.67	CAMEO.MBL (TVD)
10751.00	11096.56	ROLLINS.MBL (TVD)
10926.00	11271.81	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 212.03° (2000 usf/in)

WELL DETAILS: UWF06B-04H H04 596

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14409764.10	2438702.80	39.640626	-108.164377

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF06B-04H H04 596
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:	UWF06B-04H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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	Latitude:	39.645887
From:	Map	Easting:	2,438,700.39 usft	Longitude:	-108.164391
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.81 °

Well	UWF06B-04H H04 596					
Well Position	+N/-S	0.00 usft	Northing:	14,409,764.10 usft	Latitude:	39.646026
	+E/-W	0.00 usft	Easting:	2,438,702.80 usft	Longitude:	-108.164377
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 #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	212.03

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
550.00	5.00	268.00	549.68	-0.38	-10.89	2.00	2.00	0.00	268.00	
1,103.87	18.59	208.27	1,091.86	-79.52	-77.28	3.00	2.45	-10.78	-74.29	
7,205.50	18.59	208.27	6,875.29	-1,792.34	-998.24	0.00	0.00	0.00	0.00	
7,825.02	0.00	0.00	7,484.00	-1,880.06	-1,045.41	3.00	-3.00	0.00	180.00	
7,978.28	3.07	250.00	7,637.18	-1,881.46	-1,049.26	2.00	2.00	-71.78	250.00	
11,271.81	3.07	250.00	10,926.00	-1,941.70	-1,214.74	0.00	0.00	0.00	0.00	UWF06B PBHL

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF06B-04H H04 596
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:	UWF06B-04H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
400.00	2.00	268.00	399.98	-0.06	-1.74	0.98	2.00	2.00	
500.00	4.00	268.00	499.84	-0.24	-6.97	3.91	2.00	2.00	
550.00	5.00	268.00	549.68	-0.38	-10.89	6.10	2.00	2.00	
600.00	5.60	253.02	599.47	-1.17	-15.40	9.16	3.00	1.19	
700.00	7.58	233.05	698.82	-6.56	-25.34	19.00	3.00	1.98	
800.00	10.07	222.06	797.64	-17.01	-36.46	33.76	3.00	2.50	
900.00	12.78	215.55	895.65	-32.51	-48.76	53.42	3.00	2.71	
1,000.00	15.60	211.32	992.59	-53.00	-62.18	77.91	3.00	2.82	
1,100.00	18.47	208.36	1,088.19	-78.44	-76.70	107.17	3.00	2.87	
1,103.87	18.59	208.27	1,091.86	-79.52	-77.28	108.40	3.00	2.89	
1,200.00	18.59	208.27	1,182.98	-106.50	-91.79	138.97	0.00	0.00	
1,300.00	18.59	208.27	1,277.76	-134.57	-106.89	170.78	0.00	0.00	
1,400.00	18.59	208.27	1,372.55	-162.65	-121.98	202.58	0.00	0.00	
1,500.00	18.59	208.27	1,467.33	-190.72	-137.07	234.38	0.00	0.00	
1,600.00	18.59	208.27	1,562.12	-218.79	-152.17	266.19	0.00	0.00	
1,700.00	18.59	208.27	1,656.90	-246.86	-167.26	297.99	0.00	0.00	
1,800.00	18.59	208.27	1,751.69	-274.93	-182.35	329.79	0.00	0.00	
1,900.00	18.59	208.27	1,846.47	-303.00	-197.45	361.60	0.00	0.00	
2,000.00	18.59	208.27	1,941.26	-331.08	-212.54	393.40	0.00	0.00	
2,100.00	18.59	208.27	2,036.04	-359.15	-227.63	425.20	0.00	0.00	
2,200.00	18.59	208.27	2,130.83	-387.22	-242.73	457.01	0.00	0.00	
2,300.00	18.59	208.27	2,225.61	-415.29	-257.82	488.81	0.00	0.00	
2,400.00	18.59	208.27	2,320.40	-443.36	-272.92	520.61	0.00	0.00	
2,500.00	18.59	208.27	2,415.18	-471.43	-288.01	552.42	0.00	0.00	
2,600.00	18.59	208.27	2,509.97	-499.50	-303.10	584.22	0.00	0.00	
2,700.00	18.59	208.27	2,604.75	-527.58	-318.20	616.02	0.00	0.00	
2,800.00	18.59	208.27	2,699.54	-555.65	-333.29	647.83	0.00	0.00	
2,900.00	18.59	208.27	2,794.32	-583.72	-348.38	679.63	0.00	0.00	
3,000.00	18.59	208.27	2,889.11	-611.79	-363.48	711.43	0.00	0.00	
3,100.00	18.59	208.27	2,983.89	-639.86	-378.57	743.24	0.00	0.00	
3,200.00	18.59	208.27	3,078.68	-667.93	-393.66	775.04	0.00	0.00	
3,300.00	18.59	208.27	3,173.46	-696.00	-408.76	806.84	0.00	0.00	
3,400.00	18.59	208.27	3,268.25	-724.08	-423.85	838.65	0.00	0.00	
3,500.00	18.59	208.27	3,363.03	-752.15	-438.95	870.45	0.00	0.00	
3,600.00	18.59	208.27	3,457.82	-780.22	-454.04	902.25	0.00	0.00	
3,700.00	18.59	208.27	3,552.60	-808.29	-469.13	934.05	0.00	0.00	
3,800.00	18.59	208.27	3,647.39	-836.36	-484.23	965.86	0.00	0.00	
3,900.00	18.59	208.27	3,742.17	-864.43	-499.32	997.66	0.00	0.00	
4,000.00	18.59	208.27	3,836.96	-892.50	-514.41	1,029.46	0.00	0.00	
4,100.00	18.59	208.27	3,931.74	-920.58	-529.51	1,061.27	0.00	0.00	
4,200.00	18.59	208.27	4,026.53	-948.65	-544.60	1,093.07	0.00	0.00	
4,300.00	18.59	208.27	4,121.31	-976.72	-559.69	1,124.87	0.00	0.00	
4,400.00	18.59	208.27	4,216.09	-1,004.79	-574.79	1,156.68	0.00	0.00	
4,500.00	18.59	208.27	4,310.88	-1,032.86	-589.88	1,188.48	0.00	0.00	
4,600.00	18.59	208.27	4,405.66	-1,060.93	-604.98	1,220.28	0.00	0.00	
4,700.00	18.59	208.27	4,500.45	-1,089.00	-620.07	1,252.09	0.00	0.00	
4,800.00	18.59	208.27	4,595.23	-1,117.08	-635.16	1,283.89	0.00	0.00	
4,900.00	18.59	208.27	4,690.02	-1,145.15	-650.26	1,315.69	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF06B-04H H04 596
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:	UWF06B-04H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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	18.59	208.27	4,784.80	-1,173.22	-665.35	1,347.50	0.00	0.00	
5,100.00	18.59	208.27	4,879.59	-1,201.29	-680.44	1,379.30	0.00	0.00	
5,200.00	18.59	208.27	4,974.37	-1,229.36	-695.54	1,411.10	0.00	0.00	
5,300.00	18.59	208.27	5,069.16	-1,257.43	-710.63	1,442.91	0.00	0.00	
5,371.57	18.59	208.27	5,137.00	-1,277.52	-721.43	1,465.67	0.00	0.00	WASATCH_G_ZONE.MBL (TVD)
5,400.00	18.59	208.27	5,163.94	-1,285.50	-725.73	1,474.71	0.00	0.00	
5,455.98	18.59	208.27	5,217.00	-1,301.22	-734.17	1,492.51	0.00	0.00	WASATCH.MBL (TVD)
5,500.00	18.59	208.27	5,258.73	-1,313.58	-740.82	1,506.51	0.00	0.00	
5,600.00	18.59	208.27	5,353.51	-1,341.65	-755.91	1,538.32	0.00	0.00	
5,700.00	18.59	208.27	5,448.30	-1,369.72	-771.01	1,570.12	0.00	0.00	
5,740.83	18.59	208.27	5,487.00	-1,381.18	-777.17	1,583.11	0.00	0.00	FORT_UNION.MBL (TVD)
5,800.00	18.59	208.27	5,543.08	-1,397.79	-786.10	1,601.92	0.00	0.00	
5,900.00	18.59	208.27	5,637.87	-1,425.86	-801.19	1,633.73	0.00	0.00	
6,000.00	18.59	208.27	5,732.65	-1,453.93	-816.29	1,665.53	0.00	0.00	
6,100.00	18.59	208.27	5,827.44	-1,482.00	-831.38	1,697.33	0.00	0.00	
6,200.00	18.59	208.27	5,922.22	-1,510.08	-846.47	1,729.14	0.00	0.00	
6,300.00	18.59	208.27	6,017.01	-1,538.15	-861.57	1,760.94	0.00	0.00	
6,400.00	18.59	208.27	6,111.79	-1,566.22	-876.66	1,792.74	0.00	0.00	
6,500.00	18.59	208.27	6,206.58	-1,594.29	-891.76	1,824.55	0.00	0.00	
6,600.00	18.59	208.27	6,301.36	-1,622.36	-906.85	1,856.35	0.00	0.00	
6,700.00	18.59	208.27	6,396.15	-1,650.43	-921.94	1,888.15	0.00	0.00	
6,800.00	18.59	208.27	6,490.93	-1,678.50	-937.04	1,919.96	0.00	0.00	
6,900.00	18.59	208.27	6,585.72	-1,706.58	-952.13	1,951.76	0.00	0.00	
7,000.00	18.59	208.27	6,680.50	-1,734.65	-967.22	1,983.56	0.00	0.00	
7,100.00	18.59	208.27	6,775.29	-1,762.72	-982.32	2,015.37	0.00	0.00	
7,200.00	18.59	208.27	6,870.07	-1,790.79	-997.41	2,047.17	0.00	0.00	
7,205.50	18.59	208.27	6,875.29	-1,792.34	-998.24	2,048.92	0.00	0.00	
7,300.00	15.75	208.27	6,965.57	-1,816.90	-1,011.45	2,076.75	3.00	-3.00	
7,400.00	12.75	208.27	7,062.48	-1,838.58	-1,023.11	2,101.31	3.00	-3.00	
7,500.00	9.75	208.27	7,160.54	-1,855.76	-1,032.34	2,120.78	3.00	-3.00	
7,600.00	6.75	208.27	7,259.50	-1,868.40	-1,039.14	2,135.09	3.00	-3.00	
7,660.82	4.93	208.27	7,320.00	-1,873.85	-1,042.07	2,141.27	3.00	-3.00	OHIO_CREEK.MBL (TVD)
7,700.00	3.75	208.27	7,359.07	-1,876.46	-1,043.47	2,144.22	3.00	-3.00	
7,800.00	0.75	208.27	7,458.98	-1,879.92	-1,045.33	2,148.14	3.00	-3.00	
7,825.02	0.00	0.00	7,484.00	-1,880.06	-1,045.41	2,148.31	3.00	-3.00	
7,875.03	1.00	250.00	7,534.00	-1,880.21	-1,045.82	2,148.65	2.00	2.00	WILLIAMS_FORK.MBL (TVD)
7,900.00	1.50	250.00	7,558.97	-1,880.40	-1,046.33	2,149.08	2.00	2.00	
7,925.04	2.00	250.00	7,584.00	-1,880.66	-1,047.05	2,149.68	2.00	2.00	TOP_GAS.MBL (TVD)
7,978.28	3.07	250.00	7,637.18	-1,881.46	-1,049.26	2,151.54	2.00	2.00	
8,000.00	3.07	250.00	7,658.87	-1,881.86	-1,050.35	2,152.45	0.00	0.00	
8,100.00	3.07	250.00	7,758.73	-1,883.69	-1,055.38	2,156.67	0.00	0.00	
8,200.00	3.07	250.00	7,858.59	-1,885.52	-1,060.40	2,160.88	0.00	0.00	
8,300.00	3.07	250.00	7,958.44	-1,887.35	-1,065.43	2,165.10	0.00	0.00	
8,400.00	3.07	250.00	8,058.30	-1,889.17	-1,070.45	2,169.31	0.00	0.00	
8,500.00	3.07	250.00	8,158.16	-1,891.00	-1,075.47	2,173.53	0.00	0.00	
8,600.00	3.07	250.00	8,258.01	-1,892.83	-1,080.50	2,177.74	0.00	0.00	
8,700.00	3.07	250.00	8,357.87	-1,894.66	-1,085.52	2,181.96	0.00	0.00	
8,800.00	3.07	250.00	8,457.73	-1,896.49	-1,090.55	2,186.17	0.00	0.00	
8,900.00	3.07	250.00	8,557.59	-1,898.32	-1,095.57	2,190.39	0.00	0.00	
9,000.00	3.07	250.00	8,657.44	-1,900.15	-1,100.60	2,194.60	0.00	0.00	
9,100.00	3.07	250.00	8,757.30	-1,901.98	-1,105.62	2,198.82	0.00	0.00	
9,200.00	3.07	250.00	8,857.16	-1,903.81	-1,110.65	2,203.04	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF06B-04H H04 596
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:	UWF06B-04H H04 596	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

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
9,300.00	3.07	250.00	8,957.01	-1,905.63	-1,115.67	2,207.25	0.00	0.00	
9,400.00	3.07	250.00	9,056.87	-1,907.46	-1,120.70	2,211.47	0.00	0.00	
9,500.00	3.07	250.00	9,156.73	-1,909.29	-1,125.72	2,215.68	0.00	0.00	
9,600.00	3.07	250.00	9,256.58	-1,911.12	-1,130.74	2,219.90	0.00	0.00	
9,700.00	3.07	250.00	9,356.44	-1,912.95	-1,135.77	2,224.11	0.00	0.00	
9,800.00	3.07	250.00	9,456.30	-1,914.78	-1,140.79	2,228.33	0.00	0.00	
9,900.00	3.07	250.00	9,556.16	-1,916.61	-1,145.82	2,232.54	0.00	0.00	
10,000.00	3.07	250.00	9,656.01	-1,918.44	-1,150.84	2,236.76	0.00	0.00	
10,100.00	3.07	250.00	9,755.87	-1,920.27	-1,155.87	2,240.97	0.00	0.00	
10,200.00	3.07	250.00	9,855.73	-1,922.09	-1,160.89	2,245.19	0.00	0.00	
10,300.00	3.07	250.00	9,955.58	-1,923.92	-1,165.92	2,249.40	0.00	0.00	
10,400.00	3.07	250.00	10,055.44	-1,925.75	-1,170.94	2,253.62	0.00	0.00	
10,475.67	3.07	250.00	10,131.00	-1,927.14	-1,174.74	2,256.81	0.00	0.00	CAMEO.MBL (TVD)
10,500.00	3.07	250.00	10,155.30	-1,927.58	-1,175.96	2,257.83	0.00	0.00	
10,600.00	3.07	250.00	10,255.15	-1,929.41	-1,180.99	2,262.05	0.00	0.00	
10,700.00	3.07	250.00	10,355.01	-1,931.24	-1,186.01	2,266.26	0.00	0.00	
10,800.00	3.07	250.00	10,454.87	-1,933.07	-1,191.04	2,270.48	0.00	0.00	
10,900.00	3.07	250.00	10,554.72	-1,934.90	-1,196.06	2,274.70	0.00	0.00	
11,000.00	3.07	250.00	10,654.58	-1,936.72	-1,201.09	2,278.91	0.00	0.00	
11,096.56	3.07	250.00	10,751.00	-1,938.49	-1,205.94	2,282.98	0.00	0.00	ROLLINS.MBL (TVD)
11,100.00	3.07	250.00	10,754.44	-1,938.55	-1,206.11	2,283.13	0.00	0.00	
11,200.00	3.07	250.00	10,854.30	-1,940.38	-1,211.14	2,287.34	0.00	0.00	
11,271.81	3.07	250.00	10,926.00	-1,941.70	-1,214.74	2,290.37	0.00	0.00	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
- Shape									
UWF06B PBHL	0.00	0.00	10,926.00	-1,941.70	-1,214.74	14,407,785.00	2,437,550.00	39.640697	-108.168689
- plan hits target center									
- Ellipse (radii L200.00 W100.00 on 250.00 azi)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,371.57	5,137.00	WASATCH_G_ZONE.MBL (TVD)				
5,455.98	5,217.00	WASATCH.MBL (TVD)				
5,740.83	5,487.00	FORT_UNION.MBL (TVD)				
7,660.82	7,320.00	OHIO_CREEK.MBL (TVD)				
7,875.03	7,534.00	WILLIAMS_FORK.MBL (TVD)				
7,925.04	7,584.00	TOP_GAS.MBL (TVD)				
10,475.67	10,131.00	CAMEO.MBL (TVD)				
11,096.56	10,751.00	ROLLINS.MBL (TVD)				
11,271.81	10,926.00	TD.MBL (TVD)				