



SECTION DETAILS

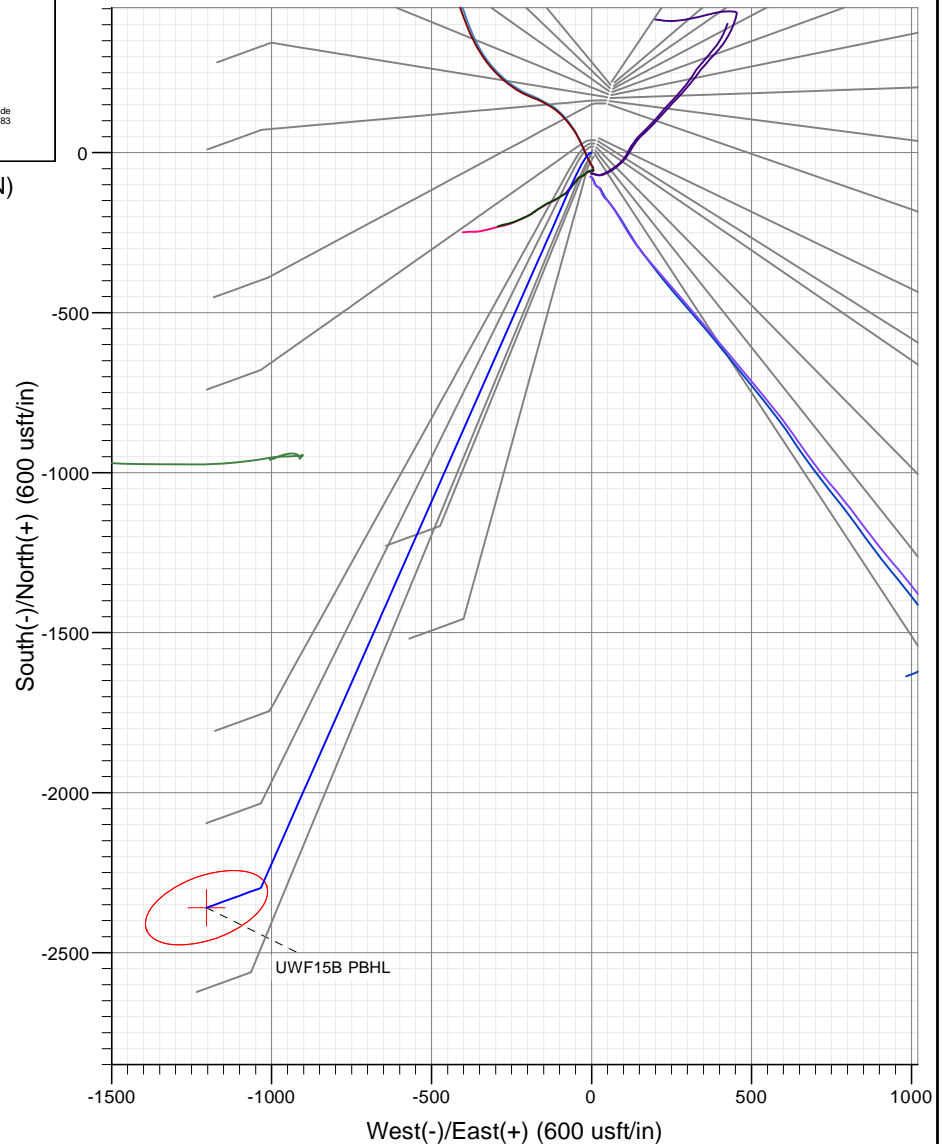
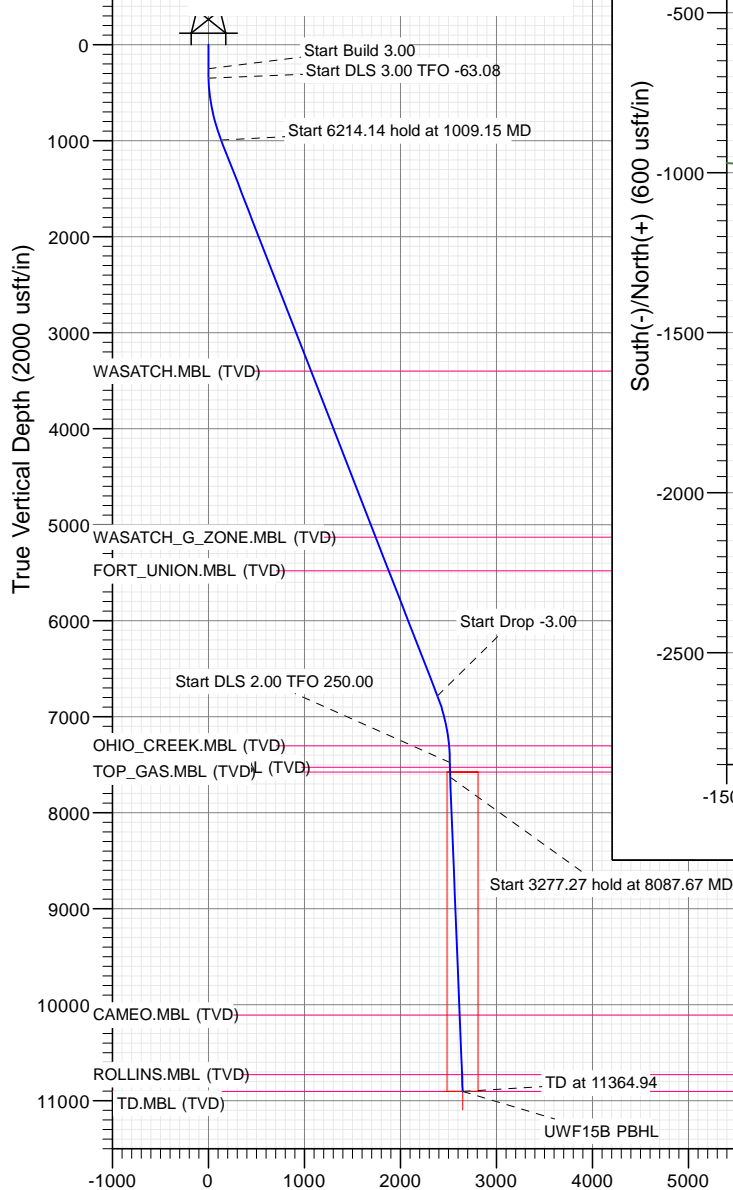
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	350.00	3.00	260.00	349.95	-0.45	-2.58	3.00	260.00	1.58	
4	1009.15	21.29	203.83	992.54	-114.06	-68.59	3.00	-63.08	132.77	
5	7223.28	21.29	203.83	6782.41	-2178.33	-980.54	0.00	0.00	2386.02	
6	7933.10	0.00	0.00	7476.00	-2297.60	-1033.23	3.00	180.00	2516.21	
7	8087.67	3.09	250.00	7630.50	-2299.03	-1037.15	2.00	250.00	2519.26	
8	11364.94	3.09	250.00	10903.00	-2359.47	-1203.23	0.00	0.00	2648.56	UWF15B PBHL

PLAN #2
UWF15B-04H H04 596
30' KB @ 8300.00ust
Ground Level @ 8270.00
NAD 1987 - Western US
Well UWF15B-04H H04 596 - Slot UWF15B-04H04596, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From	TVD
TD	No Target (Freehand)	207.02	Slot		0.00	0.00		0.00

Name: UWF15B PBHL
TVD: 10903.00
+N/-S: -2359.47
+E/-W: -1203.23
Latitude: 39.639181
Longitude: -108.168783

Project: Garfield County, CO (UTM 12N)
Site: S4-T5S-R96W (H04)
Well: UWF15B-04H H04 596
Wellbore: OH
Design: PLAN #2



FORMATION TOP DETAILS

TVDP	MD	Formation
3400.00	3593.02	WASATCH.MBL (TVD)
5130.00	5449.79	WASATCH_G_ZONE.MBL (TVD)
5480.00	5825.43	FORT_UNION.MBL (TVD)
7302.00	7758.86	OHIO_CREEK.MBL (TVD)
7526.00	7983.10	WILLIAMS_FORK.MBL (TVD)
7576.00	8033.12	TOP_GAS.MBL (TVD)
10108.00	10568.78	CAMEO.MBL (TVD)
10728.00	11189.69	ROLLINS.MBL (TVD)
10903.00	11364.94	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 207.02° (2000 usft/in)

WELL DETAILS: UWF15B-04H H04 596

8270.00
+N/-S: 0.00 +E/-W: 0.00 Northing: 14409628.20 Easting: 2438669.00 Latitude: 39.645657 Longitude: -108.164510
UWF15B-04H04596

CATHEDRAL





Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04H H04 596 - Slot UWF15B-04H
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:	UWF15B-04H 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	UWF15B-04H H04 596 - Slot UWF15B-04H04596		
Well Position	+N/-S	0.00 usft	Northing: 14,409,628.20 usft
	+E/-W	0.00 usft	Easting: 2,438,669.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	39.645657
		Longitude:	-108.164512
		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	207.02

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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
350.00	3.00	260.00	349.95	-0.45	-2.58	3.00	3.00	0.00	260.00	
1,009.15	21.29	203.83	992.54	-114.06	-68.59	3.00	2.78	-8.52	-63.08	
7,223.28	21.29	203.83	6,782.41	-2,178.33	-980.54	0.00	0.00	0.00	0.00	
7,933.10	0.00	0.00	7,476.00	-2,297.60	-1,033.23	3.00	-3.00	0.00	180.00	
8,087.67	3.09	250.00	7,630.50	-2,299.03	-1,037.15	2.00	2.00	-71.16	250.00	
11,364.94	3.09	250.00	10,903.00	-2,359.47	-1,203.23	0.00	0.00	0.00	0.00	UWF15B PBHL



Cathedral Energy Services

Planning Report

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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:	UWF15B-04H 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	
250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
300.00	1.50	260.00	299.99	-0.11	-0.64	0.39	3.00	3.00	
350.00	3.00	260.00	349.95	-0.45	-2.58	1.58	3.00	3.00	Start DLS 3.00 TFO -63.08
400.00	3.91	240.01	399.86	-1.53	-5.34	3.80	3.00	1.83	
500.00	6.44	221.40	499.46	-7.45	-12.01	12.09	3.00	2.52	
600.00	9.25	213.62	598.51	-18.35	-20.17	25.51	3.00	2.81	
700.00	12.15	209.48	696.76	-34.21	-29.80	44.02	3.00	2.90	
800.00	15.09	206.93	793.94	-54.99	-40.88	67.56	3.00	2.94	
900.00	18.05	205.19	889.78	-80.62	-53.38	96.07	3.00	2.96	
1,009.15	21.29	203.83	992.54	-114.06	-68.59	132.77	3.00	2.97	Start 6214.14 hold at 1009.15 MD
1,100.00	21.29	203.83	1,077.19	-144.24	-81.92	165.71	0.00	0.00	
1,200.00	21.29	203.83	1,170.36	-177.46	-96.60	201.97	0.00	0.00	
1,300.00	21.29	203.83	1,263.53	-210.68	-111.27	238.23	0.00	0.00	
1,400.00	21.29	203.83	1,356.71	-243.90	-125.95	274.49	0.00	0.00	
1,500.00	21.29	203.83	1,449.88	-277.12	-140.62	310.75	0.00	0.00	
1,600.00	21.29	203.83	1,543.05	-310.34	-155.30	347.01	0.00	0.00	
1,700.00	21.29	203.83	1,636.23	-343.55	-169.97	383.27	0.00	0.00	
1,800.00	21.29	203.83	1,729.40	-376.77	-184.65	419.53	0.00	0.00	
1,900.00	21.29	203.83	1,822.57	-409.99	-199.32	455.79	0.00	0.00	
2,000.00	21.29	203.83	1,915.74	-443.21	-214.00	492.05	0.00	0.00	
2,100.00	21.29	203.83	2,008.92	-476.43	-228.67	528.31	0.00	0.00	
2,200.00	21.29	203.83	2,102.09	-509.65	-243.35	564.57	0.00	0.00	
2,300.00	21.29	203.83	2,195.26	-542.87	-258.03	600.83	0.00	0.00	
2,400.00	21.29	203.83	2,288.43	-576.09	-272.70	637.09	0.00	0.00	
2,500.00	21.29	203.83	2,381.61	-609.31	-287.38	673.35	0.00	0.00	
2,600.00	21.29	203.83	2,474.78	-642.52	-302.05	709.61	0.00	0.00	
2,700.00	21.29	203.83	2,567.95	-675.74	-316.73	745.87	0.00	0.00	
2,800.00	21.29	203.83	2,661.12	-708.96	-331.40	782.13	0.00	0.00	
2,900.00	21.29	203.83	2,754.30	-742.18	-346.08	818.39	0.00	0.00	
3,000.00	21.29	203.83	2,847.47	-775.40	-360.75	854.65	0.00	0.00	
3,100.00	21.29	203.83	2,940.64	-808.62	-375.43	890.91	0.00	0.00	
3,200.00	21.29	203.83	3,033.81	-841.84	-390.10	927.17	0.00	0.00	
3,300.00	21.29	203.83	3,126.99	-875.06	-404.78	963.43	0.00	0.00	
3,400.00	21.29	203.83	3,220.16	-908.28	-419.45	999.69	0.00	0.00	
3,500.00	21.29	203.83	3,313.33	-941.49	-434.13	1,035.95	0.00	0.00	
3,593.02	21.29	203.83	3,400.00	-972.39	-447.78	1,069.68	0.00	0.00	WASATCH.MBL (TVD)
3,600.00	21.29	203.83	3,406.51	-974.71	-448.81	1,072.21	0.00	0.00	
3,700.00	21.29	203.83	3,499.68	-1,007.93	-463.48	1,108.47	0.00	0.00	
3,800.00	21.29	203.83	3,592.85	-1,041.15	-478.16	1,144.73	0.00	0.00	
3,900.00	21.29	203.83	3,686.02	-1,074.37	-492.83	1,180.99	0.00	0.00	
4,000.00	21.29	203.83	3,779.20	-1,107.59	-507.51	1,217.25	0.00	0.00	
4,100.00	21.29	203.83	3,872.37	-1,140.81	-522.18	1,253.51	0.00	0.00	
4,200.00	21.29	203.83	3,965.54	-1,174.03	-536.86	1,289.77	0.00	0.00	
4,300.00	21.29	203.83	4,058.71	-1,207.25	-551.53	1,326.03	0.00	0.00	
4,400.00	21.29	203.83	4,151.89	-1,240.46	-566.21	1,362.29	0.00	0.00	
4,500.00	21.29	203.83	4,245.06	-1,273.68	-580.88	1,398.56	0.00	0.00	
4,600.00	21.29	203.83	4,338.23	-1,306.90	-595.56	1,434.82	0.00	0.00	
4,700.00	21.29	203.83	4,431.40	-1,340.12	-610.24	1,471.08	0.00	0.00	
4,800.00	21.29	203.83	4,524.58	-1,373.34	-624.91	1,507.34	0.00	0.00	



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04H H04 596 - Slot UWF15B-04H
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:	UWF15B-04H 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
4,900.00	21.29	203.83	4,617.75	-1,406.56	-639.59	1,543.60	0.00	0.00	
5,000.00	21.29	203.83	4,710.92	-1,439.78	-654.26	1,579.86	0.00	0.00	
5,100.00	21.29	203.83	4,804.09	-1,473.00	-668.94	1,616.12	0.00	0.00	
5,200.00	21.29	203.83	4,897.27	-1,506.22	-683.61	1,652.38	0.00	0.00	
5,300.00	21.29	203.83	4,990.44	-1,539.43	-698.29	1,688.64	0.00	0.00	
5,400.00	21.29	203.83	5,083.61	-1,572.65	-712.96	1,724.90	0.00	0.00	
5,449.79	21.29	203.83	5,130.00	-1,589.19	-720.27	1,742.95	0.00	0.00	WASATCH_G_ZONE.MBL (TVD)
5,500.00	21.29	203.83	5,176.78	-1,605.87	-727.64	1,761.16	0.00	0.00	
5,600.00	21.29	203.83	5,269.96	-1,639.09	-742.31	1,797.42	0.00	0.00	
5,700.00	21.29	203.83	5,363.13	-1,672.31	-756.99	1,833.68	0.00	0.00	
5,800.00	21.29	203.83	5,456.30	-1,705.53	-771.67	1,869.94	0.00	0.00	
5,825.43	21.29	203.83	5,480.00	-1,713.98	-775.40	1,879.16	0.00	0.00	FORT_UNION.MBL (TVD)
5,900.00	21.29	203.83	5,549.48	-1,738.75	-786.34	1,906.20	0.00	0.00	
6,000.00	21.29	203.83	5,642.65	-1,771.97	-801.02	1,942.46	0.00	0.00	
6,100.00	21.29	203.83	5,735.82	-1,805.19	-815.69	1,978.72	0.00	0.00	
6,200.00	21.29	203.83	5,828.99	-1,838.40	-830.37	2,014.98	0.00	0.00	
6,300.00	21.29	203.83	5,922.17	-1,871.62	-845.04	2,051.24	0.00	0.00	
6,400.00	21.29	203.83	6,015.34	-1,904.84	-859.72	2,087.50	0.00	0.00	
6,500.00	21.29	203.83	6,108.51	-1,938.06	-874.39	2,123.76	0.00	0.00	
6,600.00	21.29	203.83	6,201.68	-1,971.28	-889.07	2,160.02	0.00	0.00	
6,700.00	21.29	203.83	6,294.86	-2,004.50	-903.74	2,196.28	0.00	0.00	
6,800.00	21.29	203.83	6,388.03	-2,037.72	-918.42	2,232.54	0.00	0.00	
6,900.00	21.29	203.83	6,481.20	-2,070.94	-933.09	2,268.80	0.00	0.00	
7,000.00	21.29	203.83	6,574.37	-2,104.16	-947.77	2,305.06	0.00	0.00	
7,100.00	21.29	203.83	6,667.55	-2,137.37	-962.45	2,341.32	0.00	0.00	
7,200.00	21.29	203.83	6,760.72	-2,170.59	-977.12	2,377.58	0.00	0.00	
7,223.28	21.29	203.83	6,782.41	-2,178.33	-980.54	2,386.02	0.00	0.00	Start Drop -3.00
7,300.00	18.99	203.83	6,854.43	-2,202.49	-991.21	2,412.40	3.00	-3.00	
7,400.00	15.99	203.83	6,949.80	-2,229.98	-1,003.36	2,442.41	3.00	-3.00	
7,500.00	12.99	203.83	7,046.60	-2,252.87	-1,013.47	2,467.39	3.00	-3.00	
7,600.00	9.99	203.83	7,144.59	-2,271.10	-1,021.52	2,487.28	3.00	-3.00	
7,700.00	6.99	203.83	7,243.48	-2,284.60	-1,027.49	2,502.03	3.00	-3.00	
7,758.86	5.23	203.83	7,302.00	-2,290.33	-1,030.02	2,508.28	3.00	-3.00	OHIO_CREEK.MBL (TVD)
7,800.00	3.99	203.83	7,343.01	-2,293.36	-1,031.36	2,511.58	3.00	-3.00	
7,900.00	0.99	203.83	7,442.90	-2,297.34	-1,033.11	2,515.92	3.00	-3.00	
7,933.10	0.00	0.00	7,476.00	-2,297.60	-1,033.23	2,516.21	3.00	-3.00	Start DLS 2.00 TFO 250.00
7,983.10	1.00	250.00	7,526.00	-2,297.75	-1,033.64	2,516.53	2.00	2.00	WILLIAMS_FORK.MBL (TVD)
8,000.00	1.34	250.00	7,542.89	-2,297.87	-1,033.96	2,516.78	2.00	2.00	
8,033.12	2.00	250.00	7,576.00	-2,298.20	-1,034.87	2,517.49	2.00	2.00	TOP_GAS.MBL (TVD)
8,087.67	3.09	250.00	7,630.50	-2,299.03	-1,037.15	2,519.26	2.00	2.00	Start 3277.27 hold at 8087.67 MD
8,100.00	3.09	250.00	7,642.81	-2,299.25	-1,037.77	2,519.75	0.00	0.00	
8,200.00	3.09	250.00	7,742.66	-2,301.10	-1,042.84	2,523.69	0.00	0.00	
8,300.00	3.09	250.00	7,842.52	-2,302.94	-1,047.91	2,527.64	0.00	0.00	
8,400.00	3.09	250.00	7,942.37	-2,304.79	-1,052.98	2,531.58	0.00	0.00	
8,500.00	3.09	250.00	8,042.23	-2,306.63	-1,058.04	2,535.53	0.00	0.00	
8,600.00	3.09	250.00	8,142.08	-2,308.47	-1,063.11	2,539.47	0.00	0.00	
8,700.00	3.09	250.00	8,241.94	-2,310.32	-1,068.18	2,543.42	0.00	0.00	
8,800.00	3.09	250.00	8,341.79	-2,312.16	-1,073.25	2,547.36	0.00	0.00	
8,900.00	3.09	250.00	8,441.64	-2,314.01	-1,078.31	2,551.31	0.00	0.00	
9,000.00	3.09	250.00	8,541.50	-2,315.85	-1,083.38	2,555.25	0.00	0.00	
9,100.00	3.09	250.00	8,641.35	-2,317.70	-1,088.45	2,559.20	0.00	0.00	
9,200.00	3.09	250.00	8,741.21	-2,319.54	-1,093.52	2,563.15	0.00	0.00	



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04H H04 596 - Slot UWF15B-04H
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:	UWF15B-04H 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
9,300.00	3.09	250.00	8,841.06	-2,321.39	-1,098.59	2,567.09	0.00	0.00	
9,400.00	3.09	250.00	8,940.92	-2,323.23	-1,103.65	2,571.04	0.00	0.00	
9,500.00	3.09	250.00	9,040.77	-2,325.07	-1,108.72	2,574.98	0.00	0.00	
9,600.00	3.09	250.00	9,140.63	-2,326.92	-1,113.79	2,578.93	0.00	0.00	
9,700.00	3.09	250.00	9,240.48	-2,328.76	-1,118.86	2,582.87	0.00	0.00	
9,800.00	3.09	250.00	9,340.33	-2,330.61	-1,123.92	2,586.82	0.00	0.00	
9,900.00	3.09	250.00	9,440.19	-2,332.45	-1,128.99	2,590.76	0.00	0.00	
10,000.00	3.09	250.00	9,540.04	-2,334.30	-1,134.06	2,594.71	0.00	0.00	
10,100.00	3.09	250.00	9,639.90	-2,336.14	-1,139.13	2,598.65	0.00	0.00	
10,200.00	3.09	250.00	9,739.75	-2,337.98	-1,144.19	2,602.60	0.00	0.00	
10,300.00	3.09	250.00	9,839.61	-2,339.83	-1,149.26	2,606.54	0.00	0.00	
10,400.00	3.09	250.00	9,939.46	-2,341.67	-1,154.33	2,610.49	0.00	0.00	
10,500.00	3.09	250.00	10,039.32	-2,343.52	-1,159.40	2,614.43	0.00	0.00	
10,568.78	3.09	250.00	10,108.00	-2,344.79	-1,162.88	2,617.15	0.00	0.00	CAMEO.MBL (TVD)
10,600.00	3.09	250.00	10,139.17	-2,345.36	-1,164.47	2,618.38	0.00	0.00	
10,700.00	3.09	250.00	10,239.02	-2,347.21	-1,169.53	2,622.32	0.00	0.00	
10,800.00	3.09	250.00	10,338.88	-2,349.05	-1,174.60	2,626.27	0.00	0.00	
10,900.00	3.09	250.00	10,438.73	-2,350.89	-1,179.67	2,630.22	0.00	0.00	
11,000.00	3.09	250.00	10,538.59	-2,352.74	-1,184.74	2,634.16	0.00	0.00	
11,100.00	3.09	250.00	10,638.44	-2,354.58	-1,189.80	2,638.11	0.00	0.00	
11,189.69	3.09	250.00	10,728.00	-2,356.24	-1,194.35	2,641.64	0.00	0.00	ROLLINS.MBL (TVD)
11,200.00	3.09	250.00	10,738.30	-2,356.43	-1,194.87	2,642.05	0.00	0.00	
11,300.00	3.09	250.00	10,838.15	-2,358.27	-1,199.94	2,646.00	0.00	0.00	
11,364.94	3.09	250.00	10,903.00	-2,359.47	-1,203.23	2,648.56	0.00	0.00	TD at 11364.94

Targets

Target Name	- hit/miss target	- Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
UWF15B PBHL			0.00	0.00	10,903.00	-2,359.47	-1,203.23	14,407,231.90	2,437,540.90	39.639181	-108.168783
	- 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 (°)
3,593.02	3,400.00	WASATCH.MBL (TVD)		0.00	
5,449.79	5,130.00	WASATCH_G_ZONE.MBL (TVD)			
5,825.43	5,480.00	FORT_UNION.MBL (TVD)			
7,758.86	7,302.00	OHIO_CREEK.MBL (TVD)			
7,983.10	7,526.00	WILLIAMS_FORK.MBL (TVD)			
8,033.12	7,576.00	TOP_GAS.MBL (TVD)			
10,568.78	10,108.00	CAMEO.MBL (TVD)			
11,189.69	10,728.00	ROLLINS.MBL (TVD)			
11,364.94	10,903.00	TD.MBL (TVD)			



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well UWF15B-04H H04 596 - Slot UWF15B-04H
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:	UWF15B-04H 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)	
250.00	250.00	0.00	0.00	Start Build 3.00
350.00	349.95	-0.45	-2.58	Start DLS 3.00 TFO -63.08
1,009.15	992.54	-114.06	-68.59	Start 6214.14 hold at 1009.15 MD
7,223.28	6,782.41	-2,178.33	-980.54	Start Drop -3.00
7,933.10	7,476.00	-2,297.60	-1,033.23	Start DLS 2.00 TFO 250.00
8,087.67	7,630.50	-2,299.03	-1,037.15	Start 3277.27 hold at 8087.67 MD
11,364.94	10,903.00	-2,359.47	-1,203.23	TD at 11364.94