



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well BATTLEMENT MESA 43D-26 795
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8994.0usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8994.0usft
<b>Site:</b>	S26-T7S-R95W (26K)	<b>North Reference:</b>	True
<b>Well:</b>	BATTLEMENT MESA 43D-26 795	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

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

Site		S26-T7S-R95W (26K)			
Site Position:		Northing:	14,324,088.50 usft	Latitude:	39.405864
From:	Map	Easting:	2,496,462.30 usft	Longitude:	-107.969708
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.92 °

Well	BATTLEMENT MESA 43D-26 795					
Well Position	+N/-S	0.0 usft	Northing:	14,323,602.50 usft	Latitude:	39.404447
	+E/-W	0.0 usft	Easting:	2,497,376.60 usft	Longitude:	-107.966534
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,964.0 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	HDGM	11/12/2015	9.45	65.63	51,901

<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	83.26

<b>Plan Sections</b>										
<b>Measured Depth</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical Depth</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Dogleg Rate</b>	<b>Build Rate</b>	<b>Turn Rate</b>	<b>TFO</b>	<b>Target</b>
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
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	
872.3	20.17	83.26	858.5	13.7	116.3	3.00	3.00	0.00	83.26	
7,842.7	20.17	83.26	7,401.5	295.9	2,502.9	0.00	0.00	0.00	0.00	
8,515.0	0.00	0.00	8,060.0	309.6	2,619.2	3.00	-3.00	0.00	180.00	
10,526.0	0.00	0.00	10,071.0	309.6	2,619.2	0.00	0.00	0.00	0.00	BM 43D-26 795 PBHL

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<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8994.0usft
<b>Site:</b>	S26-T7S-R95W (26K)	<b>North Reference:</b>	True
<b>Well:</b>	BATTLEMENT MESA 43D-26 795	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
0.0	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	Start Build 3.00
300.0	3.00	83.26	300.0	0.3	2.6	2.6	3.00	3.00	
400.0	6.00	83.26	399.6	1.2	10.4	10.5	3.00	3.00	
500.0	9.00	83.26	498.8	2.8	23.4	23.5	3.00	3.00	
600.0	12.00	83.26	597.1	4.9	41.4	41.7	3.00	3.00	
700.0	15.00	83.26	694.3	7.6	64.6	65.1	3.00	3.00	
800.0	18.00	83.26	790.2	11.0	92.8	93.5	3.00	3.00	
872.3	20.17	83.26	858.5	13.7	116.3	117.1	3.00	3.00	Start 6970.4 hold at 872.3 MD
900.0	20.17	83.26	884.5	14.9	125.8	126.7	0.00	0.00	
1,000.0	20.17	83.26	978.4	18.9	160.0	161.1	0.00	0.00	
1,100.0	20.17	83.26	1,072.2	23.0	194.3	195.6	0.00	0.00	
1,200.0	20.17	83.26	1,166.1	27.0	228.5	230.1	0.00	0.00	
1,300.0	20.17	83.26	1,260.0	31.1	262.7	264.6	0.00	0.00	
1,400.0	20.17	83.26	1,353.8	35.1	297.0	299.0	0.00	0.00	
1,500.0	20.17	83.26	1,447.7	39.2	331.2	333.5	0.00	0.00	
1,600.0	20.17	83.26	1,541.6	43.2	365.5	368.0	0.00	0.00	
1,700.0	20.17	83.26	1,635.5	47.2	399.7	402.5	0.00	0.00	
1,800.0	20.17	83.26	1,729.3	51.3	433.9	437.0	0.00	0.00	
1,900.0	20.17	83.26	1,823.2	55.3	468.2	471.4	0.00	0.00	
2,000.0	20.17	83.26	1,917.1	59.4	502.4	505.9	0.00	0.00	
2,100.0	20.17	83.26	2,010.9	63.4	536.7	540.4	0.00	0.00	
2,200.0	20.17	83.26	2,104.8	67.5	570.9	574.9	0.00	0.00	
2,300.0	20.17	83.26	2,198.7	71.5	605.1	609.3	0.00	0.00	
2,400.0	20.17	83.26	2,292.5	75.6	639.4	643.8	0.00	0.00	
2,500.0	20.17	83.26	2,386.4	79.6	673.6	678.3	0.00	0.00	
2,600.0	20.17	83.26	2,480.3	83.7	707.8	712.8	0.00	0.00	
2,700.0	20.17	83.26	2,574.1	87.7	742.1	747.3	0.00	0.00	
2,800.0	20.17	83.26	2,668.0	91.8	776.3	781.7	0.00	0.00	
2,900.0	20.17	83.26	2,761.9	95.8	810.6	816.2	0.00	0.00	
3,000.0	20.17	83.26	2,855.7	99.9	844.8	850.7	0.00	0.00	
3,100.0	20.17	83.26	2,949.6	103.9	879.0	885.2	0.00	0.00	
3,200.0	20.17	83.26	3,043.5	108.0	913.3	919.6	0.00	0.00	
3,300.0	20.17	83.26	3,137.3	112.0	947.5	954.1	0.00	0.00	
3,400.0	20.17	83.26	3,231.2	116.1	981.8	988.6	0.00	0.00	
3,500.0	20.17	83.26	3,325.1	120.1	1,016.0	1,023.1	0.00	0.00	
3,600.0	20.17	83.26	3,419.0	124.1	1,050.2	1,057.6	0.00	0.00	
3,700.0	20.17	83.26	3,512.8	128.2	1,084.5	1,092.0	0.00	0.00	
3,800.0	20.17	83.26	3,606.7	132.2	1,118.7	1,126.5	0.00	0.00	
3,900.0	20.17	83.26	3,700.6	136.3	1,153.0	1,161.0	0.00	0.00	
4,000.0	20.17	83.26	3,794.4	140.3	1,187.2	1,195.5	0.00	0.00	
4,100.0	20.17	83.26	3,888.3	144.4	1,221.4	1,229.9	0.00	0.00	
4,200.0	20.17	83.26	3,982.2	148.4	1,255.7	1,264.4	0.00	0.00	
4,300.0	20.17	83.26	4,076.0	152.5	1,289.9	1,298.9	0.00	0.00	
4,400.0	20.17	83.26	4,169.9	156.5	1,324.2	1,333.4	0.00	0.00	
4,500.0	20.17	83.26	4,263.8	160.6	1,358.4	1,367.8	0.00	0.00	
4,600.0	20.17	83.26	4,357.6	164.6	1,392.6	1,402.3	0.00	0.00	
4,700.0	20.17	83.26	4,451.5	168.7	1,426.9	1,436.8	0.00	0.00	
4,800.0	20.17	83.26	4,545.4	172.7	1,461.1	1,471.3	0.00	0.00	
4,900.0	20.17	83.26	4,639.2	176.8	1,495.3	1,505.8	0.00	0.00	
5,000.0	20.17	83.26	4,733.1	180.8	1,529.6	1,540.2	0.00	0.00	

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<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8994.0usft
<b>Site:</b>	S26-T7S-R95W (26K)	<b>North Reference:</b>	True
<b>Well:</b>	BATTLEMENT MESA 43D-26 795	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
5,100.0	20.17	83.26	4,827.0	184.9	1,563.8	1,574.7	0.00	0.00	
5,200.0	20.17	83.26	4,920.9	188.9	1,598.1	1,609.2	0.00	0.00	
5,300.0	20.17	83.26	5,014.7	193.0	1,632.3	1,643.7	0.00	0.00	
5,400.0	20.17	83.26	5,108.6	197.0	1,666.5	1,678.1	0.00	0.00	
5,500.0	20.17	83.26	5,202.5	201.0	1,700.8	1,712.6	0.00	0.00	
5,600.0	20.17	83.26	5,296.3	205.1	1,735.0	1,747.1	0.00	0.00	
5,700.0	20.17	83.26	5,390.2	209.1	1,769.3	1,781.6	0.00	0.00	
5,800.0	20.17	83.26	5,484.1	213.2	1,803.5	1,816.1	0.00	0.00	
5,900.0	20.17	83.26	5,577.9	217.2	1,837.7	1,850.5	0.00	0.00	
6,000.0	20.17	83.26	5,671.8	221.3	1,872.0	1,885.0	0.00	0.00	
6,100.0	20.17	83.26	5,765.7	225.3	1,906.2	1,919.5	0.00	0.00	
6,200.0	20.17	83.26	5,859.5	229.4	1,940.5	1,954.0	0.00	0.00	
6,300.0	20.17	83.26	5,953.4	233.4	1,974.7	1,988.4	0.00	0.00	
6,400.0	20.17	83.26	6,047.3	237.5	2,008.9	2,022.9	0.00	0.00	
6,500.0	20.17	83.26	6,141.1	241.5	2,043.2	2,057.4	0.00	0.00	
6,600.0	20.17	83.26	6,235.0	245.6	2,077.4	2,091.9	0.00	0.00	
6,700.0	20.17	83.26	6,328.9	249.6	2,111.6	2,126.3	0.00	0.00	
6,800.0	20.17	83.26	6,422.8	253.7	2,145.9	2,160.8	0.00	0.00	
6,900.0	20.17	83.26	6,516.6	257.7	2,180.1	2,195.3	0.00	0.00	
7,000.0	20.17	83.26	6,610.5	261.8	2,214.4	2,229.8	0.00	0.00	
7,100.0	20.17	83.26	6,704.4	265.8	2,248.6	2,264.3	0.00	0.00	
7,200.0	20.17	83.26	6,798.2	269.9	2,282.8	2,298.7	0.00	0.00	
7,300.0	20.17	83.26	6,892.1	273.9	2,317.1	2,333.2	0.00	0.00	
7,400.0	20.17	83.26	6,986.0	277.9	2,351.3	2,367.7	0.00	0.00	
7,417.1	20.17	83.26	7,002.0	278.6	2,357.2	2,373.6	0.00	0.00	OHIO_CREEK.MBL (SSTVD)
7,500.0	20.17	83.26	7,079.8	282.0	2,385.6	2,402.2	0.00	0.00	
7,600.0	20.17	83.26	7,173.7	286.0	2,419.8	2,436.6	0.00	0.00	
7,700.0	20.17	83.26	7,267.6	290.1	2,454.0	2,471.1	0.00	0.00	
7,800.0	20.17	83.26	7,361.4	294.1	2,488.3	2,505.6	0.00	0.00	
7,830.4	20.17	83.26	7,390.0	295.4	2,498.7	2,516.1	0.00	0.00	WILLIAMS_FORK.MBL (SSTVD)
7,842.7	20.17	83.26	7,401.5	295.9	2,502.9	2,520.3	0.00	0.00	Start Drop -3.00
7,900.0	18.45	83.26	7,455.6	298.1	2,521.7	2,539.3	3.00	-3.00	
8,000.0	15.45	83.26	7,551.2	301.5	2,550.7	2,568.4	3.00	-3.00	
8,100.0	12.45	83.26	7,648.3	304.3	2,574.6	2,592.5	3.00	-3.00	
8,200.0	9.45	83.26	7,746.4	306.6	2,593.5	2,611.5	3.00	-3.00	
8,300.0	6.45	83.26	7,845.5	308.2	2,607.2	2,625.3	3.00	-3.00	
8,400.0	3.45	83.26	7,945.1	309.2	2,615.8	2,634.0	3.00	-3.00	
8,500.0	0.45	83.26	8,045.0	309.6	2,619.1	2,637.4	3.00	-3.00	
8,515.0	0.00	0.00	8,060.0	309.6	2,619.2	2,637.4	3.00	-3.00	Start 2011.0 hold at 8515.0 MD
8,600.0	0.00	0.00	8,145.0	309.6	2,619.2	2,637.4	0.00	0.00	
8,615.0	0.00	0.00	8,160.0	309.6	2,619.2	2,637.4	0.00	0.00	TOP_GAS.MBL (SSTVD)
8,700.0	0.00	0.00	8,245.0	309.6	2,619.2	2,637.4	0.00	0.00	
8,800.0	0.00	0.00	8,345.0	309.6	2,619.2	2,637.4	0.00	0.00	
8,900.0	0.00	0.00	8,445.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,000.0	0.00	0.00	8,545.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,100.0	0.00	0.00	8,645.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,200.0	0.00	0.00	8,745.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,300.0	0.00	0.00	8,845.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,400.0	0.00	0.00	8,945.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,500.0	0.00	0.00	9,045.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,600.0	0.00	0.00	9,145.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,700.0	0.00	0.00	9,245.0	309.6	2,619.2	2,637.4	0.00	0.00	

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<b>Well:</b>	BATTLEMENT MESA 43D-26 795	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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
9,800.0	0.00	0.00	9,345.0	309.6	2,619.2	2,637.4	0.00	0.00	
9,851.0	0.00	0.00	9,396.0	309.6	2,619.2	2,637.4	0.00	0.00	CAMEO.MBL (SSTVD)
9,900.0	0.00	0.00	9,445.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,000.0	0.00	0.00	9,545.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,100.0	0.00	0.00	9,645.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,200.0	0.00	0.00	9,745.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,300.0	0.00	0.00	9,845.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,376.0	0.00	0.00	9,921.0	309.6	2,619.2	2,637.4	0.00	0.00	ROLLINS.MBL (SSTVD)
10,400.0	0.00	0.00	9,945.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,500.0	0.00	0.00	10,045.0	309.6	2,619.2	2,637.4	0.00	0.00	
10,526.0	0.00	0.00	10,071.0	309.6	2,619.2	2,637.4	0.00	0.00	TD at 10526.0 - TD.MBL (SSTVD) - BM 43D-26

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BM 43D-26 795 PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 50.0)	0.00	0.00	10,071.0	309.6	2,619.2	14,324,000.00	2,499,983.90	39.405296	-107.957269

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,417.1	7,002.0	OHIO_CREEK.MBL (SSTVD)		0.00	
7,830.4	7,390.0	WILLIAMS_FORK.MBL (SSTVD)		0.00	
8,615.0	8,160.0	TOP_GAS.MBL (SSTVD)		0.00	
9,851.0	9,396.0	CAMEO.MBL (SSTVD)		0.00	
10,376.0	9,921.0	ROLLINS.MBL (SSTVD)		0.00	
10,526.0	10,071.0	TD.MBL (SSTVD)		0.00	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.0	200.0	0.0	0.0	Start Build 3.00
872.3	858.5	13.7	116.3	Start 6970.4 hold at 872.3 MD
7,842.7	7,401.5	295.9	2,502.9	Start Drop -3.00
8,515.0	8,060.0	309.6	2,619.2	Start 2011.0 hold at 8515.0 MD
10,526.0	10,071.0	309.6	2,619.2	TD at 10526.0