



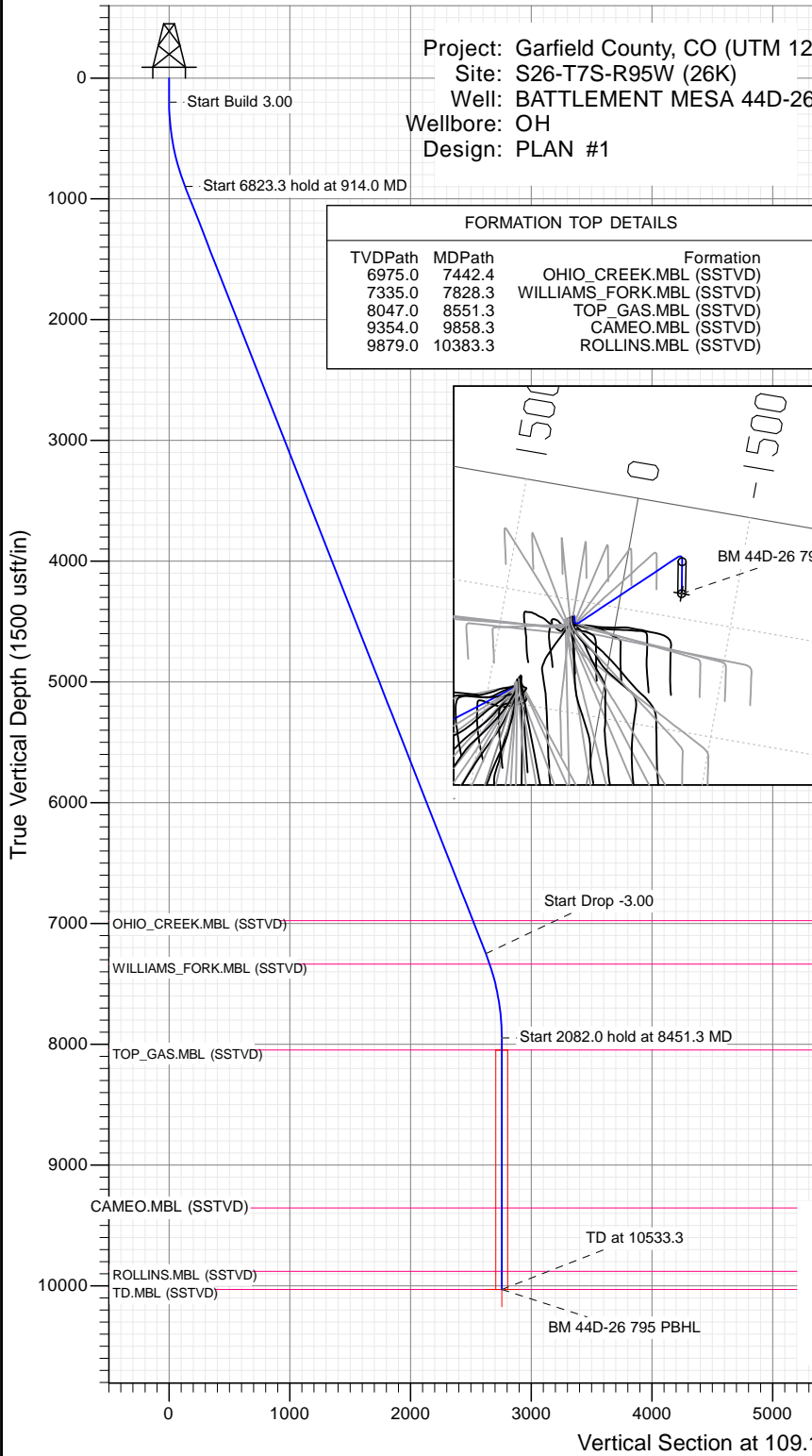
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	
3	914.0	21.42	109.18	897.5	-43.3	124.6	3.00	109.18	131.9	
4	7737.3	21.42	109.18	7249.5	-861.8	2478.1	0.00	0.00	2623.7	
5	8451.3	0.00	0.00	7947.0	-905.1	2602.7	3.00	180.00	2755.6	
6	10533.3	0.00	0.00	10029.0	-905.1	2602.7	0.00	0.00	2755.6	BM 44D-26 795 PBHL

Project: Garfield County, CO (UTM 12
 Site: S26-T7S-R95W (26K)
 Well: BATTLEMENT MESA 44D-26
 Wellbore: OH
 Design: PLAN #1

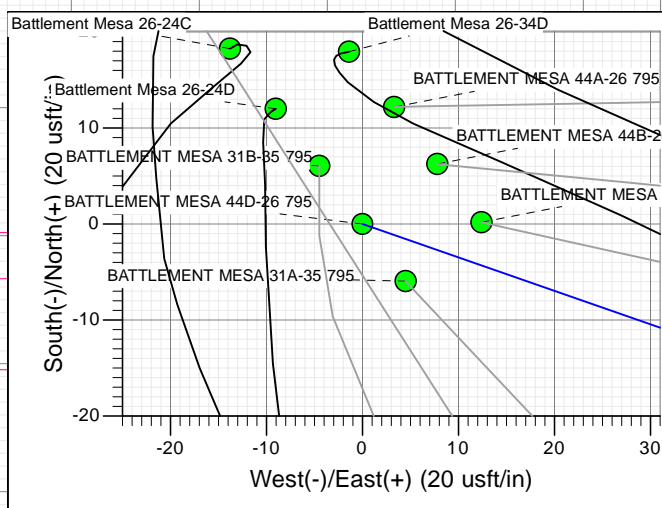
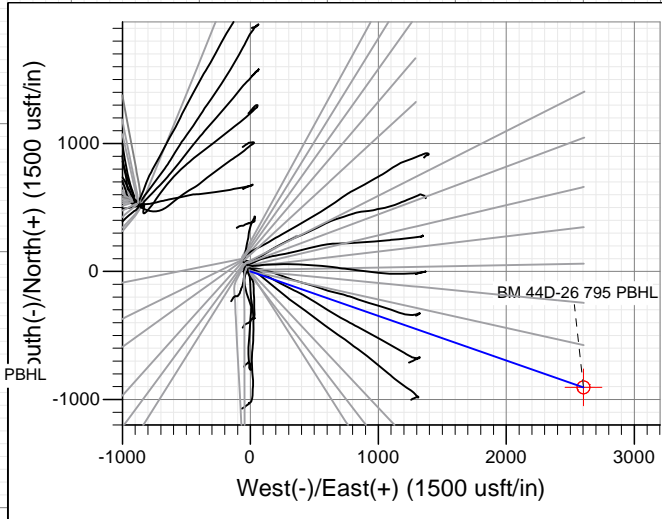
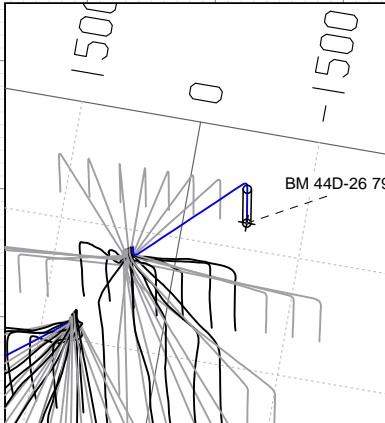
PLAN #1
 BATTLEMENT MESA 44D-26 795
 15XXX; LR
 30 KB @ 8964.0usft
 Ground Level @ 8964.0
 NAD 1927 - Western US
 Well BATTLEMENT MESA 44D-26 795, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
TD	No Target (Freehand)	109.18	Slot		0.0	0.0	TVD
Name		TVD	+N-S	+E/W	Latitude	Longitude	
BM 44D-26 795 PBHL		10029.0	-905.1	2602.7	39.401864	-107.957277	



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
6975.0	7442.4	OHIO_CREEK.MBL (SSTVD)
7335.0	7828.3	WILLIAMS_FORK.MBL (SSTVD)
8047.0	8551.3	TOP_GAS.MBL (SSTVD)
9354.0	9858.3	CAMEO.MBL (SSTVD)
9879.0	10383.3	ROLLINS.MBL (SSTVD)



T M
 Azimuths to True North
 Magnetic North: 9.45°
 Magnetic Field
 Strength: 51901.0snT
 Dip Angle: 65.63°
 Date: 11/12/2015
 Model: HDGM

CASING DETAILS
 No casing data is available



WELL DETAILS: BATTLEMENT MESA 44D-26 795

+N-S	+E-W	Northing	Ground Level:	8964.0	Latitude	Longitude
0.0	0.0	14323567.10	Easting	2497392.20	39.404348	-107.966483

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well BATTLEMENT MESA 44D-26 795
Company: Caerus Oil & Gas	TVD Reference: 30' KB @ 8994.0usft
Project: Garfield County, CO (UTM 12N)	MD Reference: 30' KB @ 8994.0usft
Site: S26-T7S-R95W (26K)	North Reference: True
Well: BATTLEMENT MESA 44D-26 795	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 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 44D-26 795			
Well Position	+N/-S 0.0 usft	Northing: 14,323,567.10 usft	Latitude: 39.404348
	+E/-W 0.0 usft	Easting: 2,497,392.20 usft	Longitude: -107.966483
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 8,964.0 usft

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

Design PLAN #1				
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	109.18

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
0.0	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	
914.0	21.42	109.18	897.5	-43.3	124.6	3.00	3.00	0.00	109.18	
7,737.3	21.42	109.18	7,249.5	-861.8	2,478.1	0.00	0.00	0.00	0.00	
8,451.3	0.00	0.00	7,947.0	-905.1	2,602.7	3.00	-3.00	0.00	180.00	
10,533.3	0.00	0.00	10,029.0	-905.1	2,602.7	0.00	0.00	0.00	0.00	BM 44D-26 795 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well BATTLEMENT MESA 44D-26 795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8994.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8994.0usft
Site:	S26-T7S-R95W (26K)	North Reference:	True
Well:	BATTLEMENT MESA 44D-26 795	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
0.0	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	109.18	300.0	-0.9	2.5	2.6	3.00	3.00	
400.0	6.00	109.18	399.6	-3.4	9.9	10.5	3.00	3.00	
500.0	9.00	109.18	498.8	-7.7	22.2	23.5	3.00	3.00	
600.0	12.00	109.18	597.1	-13.7	39.4	41.7	3.00	3.00	
700.0	15.00	109.18	694.3	-21.4	61.5	65.1	3.00	3.00	
800.0	18.00	109.18	790.2	-30.7	88.3	93.5	3.00	3.00	
900.0	21.00	109.18	884.4	-41.7	119.8	126.9	3.00	3.00	
914.0	21.42	109.18	897.5	-43.3	124.6	131.9	3.00	3.00	Start 6823.3 hold at 914.0 MD
1,000.0	21.42	109.18	977.5	-53.6	154.3	163.3	0.00	0.00	
1,100.0	21.42	109.18	1,070.6	-65.6	188.8	199.8	0.00	0.00	
1,200.0	21.42	109.18	1,163.7	-77.6	223.2	236.4	0.00	0.00	
1,300.0	21.42	109.18	1,256.8	-89.6	257.7	272.9	0.00	0.00	
1,400.0	21.42	109.18	1,349.9	-101.6	292.2	309.4	0.00	0.00	
1,500.0	21.42	109.18	1,443.0	-113.6	326.7	345.9	0.00	0.00	
1,600.0	21.42	109.18	1,536.1	-125.6	361.2	382.4	0.00	0.00	
1,700.0	21.42	109.18	1,629.2	-137.6	395.7	419.0	0.00	0.00	
1,800.0	21.42	109.18	1,722.3	-149.6	430.2	455.5	0.00	0.00	
1,900.0	21.42	109.18	1,815.4	-161.6	464.7	492.0	0.00	0.00	
2,000.0	21.42	109.18	1,908.5	-173.6	499.2	528.5	0.00	0.00	
2,100.0	21.42	109.18	2,001.6	-185.6	533.7	565.0	0.00	0.00	
2,200.0	21.42	109.18	2,094.7	-197.6	568.2	601.6	0.00	0.00	
2,300.0	21.42	109.18	2,187.8	-209.6	602.7	638.1	0.00	0.00	
2,400.0	21.42	109.18	2,280.9	-221.6	637.2	674.6	0.00	0.00	
2,500.0	21.42	109.18	2,373.9	-233.6	671.7	711.1	0.00	0.00	
2,600.0	21.42	109.18	2,467.0	-245.6	706.1	747.6	0.00	0.00	
2,700.0	21.42	109.18	2,560.1	-257.6	740.6	784.1	0.00	0.00	
2,800.0	21.42	109.18	2,653.2	-269.6	775.1	820.7	0.00	0.00	
2,900.0	21.42	109.18	2,746.3	-281.6	809.6	857.2	0.00	0.00	
3,000.0	21.42	109.18	2,839.4	-293.5	844.1	893.7	0.00	0.00	
3,100.0	21.42	109.18	2,932.5	-305.5	878.6	930.2	0.00	0.00	
3,200.0	21.42	109.18	3,025.6	-317.5	913.1	966.7	0.00	0.00	
3,300.0	21.42	109.18	3,118.7	-329.5	947.6	1,003.3	0.00	0.00	
3,400.0	21.42	109.18	3,211.8	-341.5	982.1	1,039.8	0.00	0.00	
3,500.0	21.42	109.18	3,304.9	-353.5	1,016.6	1,076.3	0.00	0.00	
3,600.0	21.42	109.18	3,398.0	-365.5	1,051.1	1,112.8	0.00	0.00	
3,700.0	21.42	109.18	3,491.1	-377.5	1,085.6	1,149.3	0.00	0.00	
3,800.0	21.42	109.18	3,584.2	-389.5	1,120.1	1,185.9	0.00	0.00	
3,900.0	21.42	109.18	3,677.3	-401.5	1,154.6	1,222.4	0.00	0.00	
4,000.0	21.42	109.18	3,770.3	-413.5	1,189.0	1,258.9	0.00	0.00	
4,100.0	21.42	109.18	3,863.4	-425.5	1,223.5	1,295.4	0.00	0.00	
4,200.0	21.42	109.18	3,956.5	-437.5	1,258.0	1,331.9	0.00	0.00	
4,300.0	21.42	109.18	4,049.6	-449.5	1,292.5	1,368.4	0.00	0.00	
4,400.0	21.42	109.18	4,142.7	-461.5	1,327.0	1,405.0	0.00	0.00	
4,500.0	21.42	109.18	4,235.8	-473.5	1,361.5	1,441.5	0.00	0.00	
4,600.0	21.42	109.18	4,328.9	-485.5	1,396.0	1,478.0	0.00	0.00	
4,700.0	21.42	109.18	4,422.0	-497.5	1,430.5	1,514.5	0.00	0.00	
4,800.0	21.42	109.18	4,515.1	-509.5	1,465.0	1,551.0	0.00	0.00	
4,900.0	21.42	109.18	4,608.2	-521.5	1,499.5	1,587.6	0.00	0.00	
5,000.0	21.42	109.18	4,701.3	-533.5	1,534.0	1,624.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well BATTLEMENT MESA 44D-26 795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8994.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8994.0usft
Site:	S26-T7S-R95W (26K)	North Reference:	True
Well:	BATTLEMENT MESA 44D-26 795	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
5,100.0	21.42	109.18	4,794.4	-545.4	1,568.5	1,660.6	0.00	0.00	
5,200.0	21.42	109.18	4,887.5	-557.4	1,603.0	1,697.1	0.00	0.00	
5,300.0	21.42	109.18	4,980.6	-569.4	1,637.5	1,733.6	0.00	0.00	
5,400.0	21.42	109.18	5,073.7	-581.4	1,671.9	1,770.2	0.00	0.00	
5,500.0	21.42	109.18	5,166.7	-593.4	1,706.4	1,806.7	0.00	0.00	
5,600.0	21.42	109.18	5,259.8	-605.4	1,740.9	1,843.2	0.00	0.00	
5,700.0	21.42	109.18	5,352.9	-617.4	1,775.4	1,879.7	0.00	0.00	
5,800.0	21.42	109.18	5,446.0	-629.4	1,809.9	1,916.2	0.00	0.00	
5,900.0	21.42	109.18	5,539.1	-641.4	1,844.4	1,952.8	0.00	0.00	
6,000.0	21.42	109.18	5,632.2	-653.4	1,878.9	1,989.3	0.00	0.00	
6,100.0	21.42	109.18	5,725.3	-665.4	1,913.4	2,025.8	0.00	0.00	
6,200.0	21.42	109.18	5,818.4	-677.4	1,947.9	2,062.3	0.00	0.00	
6,300.0	21.42	109.18	5,911.5	-689.4	1,982.4	2,098.8	0.00	0.00	
6,400.0	21.42	109.18	6,004.6	-701.4	2,016.9	2,135.3	0.00	0.00	
6,500.0	21.42	109.18	6,097.7	-713.4	2,051.4	2,171.9	0.00	0.00	
6,600.0	21.42	109.18	6,190.8	-725.4	2,085.9	2,208.4	0.00	0.00	
6,700.0	21.42	109.18	6,283.9	-737.4	2,120.3	2,244.9	0.00	0.00	
6,800.0	21.42	109.18	6,377.0	-749.4	2,154.8	2,281.4	0.00	0.00	
6,900.0	21.42	109.18	6,470.1	-761.4	2,189.3	2,317.9	0.00	0.00	
7,000.0	21.42	109.18	6,563.1	-773.4	2,223.8	2,354.5	0.00	0.00	
7,100.0	21.42	109.18	6,656.2	-785.4	2,258.3	2,391.0	0.00	0.00	
7,200.0	21.42	109.18	6,749.3	-797.3	2,292.8	2,427.5	0.00	0.00	
7,300.0	21.42	109.18	6,842.4	-809.3	2,327.3	2,464.0	0.00	0.00	
7,400.0	21.42	109.18	6,935.5	-821.3	2,361.8	2,500.5	0.00	0.00	
7,442.4	21.42	109.18	6,975.0	-826.4	2,376.4	2,516.0	0.00	0.00	OHIO_CREEK.MBL (SSTVD)
7,500.0	21.42	109.18	7,028.6	-833.3	2,396.3	2,537.1	0.00	0.00	
7,600.0	21.42	109.18	7,121.7	-845.3	2,430.8	2,573.6	0.00	0.00	
7,700.0	21.42	109.18	7,214.8	-857.3	2,465.3	2,610.1	0.00	0.00	
7,737.3	21.42	109.18	7,249.5	-861.8	2,478.1	2,623.7	0.00	0.00	Start Drop -3.00
7,800.0	19.54	109.18	7,308.3	-869.0	2,498.9	2,645.7	3.00	-3.00	
7,828.3	18.69	109.18	7,335.0	-872.0	2,507.6	2,654.9	3.00	-3.00	WILLIAMS_FORK.MBL (SSTVD)
7,900.0	16.54	109.18	7,403.3	-879.2	2,528.1	2,676.6	3.00	-3.00	
8,000.0	13.54	109.18	7,499.9	-887.7	2,552.6	2,702.6	3.00	-3.00	
8,100.0	10.54	109.18	7,597.7	-894.5	2,572.3	2,723.4	3.00	-3.00	
8,200.0	7.54	109.18	7,696.4	-899.7	2,587.1	2,739.1	3.00	-3.00	
8,300.0	4.54	109.18	7,795.9	-903.2	2,597.1	2,749.6	3.00	-3.00	
8,400.0	1.54	109.18	7,895.7	-904.9	2,602.1	2,754.9	3.00	-3.00	
8,451.3	0.00	0.00	7,947.0	-905.1	2,602.7	2,755.6	3.00	-3.00	Start 2082.0 hold at 8451.3 MD
8,500.0	0.00	0.00	7,995.7	-905.1	2,602.7	2,755.6	0.00	0.00	
8,551.3	0.00	0.00	8,047.0	-905.1	2,602.7	2,755.6	0.00	0.00	TOP_GAS.MBL (SSTVD)
8,600.0	0.00	0.00	8,095.7	-905.1	2,602.7	2,755.6	0.00	0.00	
8,700.0	0.00	0.00	8,195.7	-905.1	2,602.7	2,755.6	0.00	0.00	
8,800.0	0.00	0.00	8,295.7	-905.1	2,602.7	2,755.6	0.00	0.00	
8,900.0	0.00	0.00	8,395.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,000.0	0.00	0.00	8,495.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,100.0	0.00	0.00	8,595.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,200.0	0.00	0.00	8,695.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,300.0	0.00	0.00	8,795.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,400.0	0.00	0.00	8,895.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,500.0	0.00	0.00	8,995.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,600.0	0.00	0.00	9,095.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,700.0	0.00	0.00	9,195.7	-905.1	2,602.7	2,755.6	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well BATTLEMENT MESA 44D-26 795
Company: Caerus Oil & Gas	TVD Reference: 30' KB @ 8994.0usft
Project: Garfield County, CO (UTM 12N)	MD Reference: 30' KB @ 8994.0usft
Site: S26-T7S-R95W (26K)	North Reference: True
Well: BATTLEMENT MESA 44D-26 795	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
9,800.0	0.00	0.00	9,295.7	-905.1	2,602.7	2,755.6	0.00	0.00	
9,858.3	0.00	0.00	9,354.0	-905.1	2,602.7	2,755.6	0.00	0.00	CAMEO.MBL (SSTVD)
9,900.0	0.00	0.00	9,395.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,000.0	0.00	0.00	9,495.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,100.0	0.00	0.00	9,595.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,200.0	0.00	0.00	9,695.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,300.0	0.00	0.00	9,795.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,383.3	0.00	0.00	9,879.0	-905.1	2,602.7	2,755.6	0.00	0.00	ROLLINS.MBL (SSTVD)
10,400.0	0.00	0.00	9,895.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,500.0	0.00	0.00	9,995.7	-905.1	2,602.7	2,755.6	0.00	0.00	
10,533.3	0.00	0.00	10,029.0	-905.1	2,602.7	2,755.6	0.00	0.00	TD at 10533.3 - BM 44D-26 795 PBHL

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BM 44D-26 795 PBHL - hit/miss target - Shape - plan hits target center - Circle (radius 50.0)	0.00	0.00	10,029.0	-905.1	2,602.7	14,322,750.00	2,500,023.90	39.401864	-107.957277

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,442.4	6,975.0	OHIO_CREEK.MBL (SSTVD)		0.00	
7,828.3	7,335.0	WILLIAMS_FORK.MBL (SSTVD)		0.00	
8,551.3	8,047.0	TOP_GAS.MBL (SSTVD)		0.00	
9,858.3	9,354.0	CAMEO.MBL (SSTVD)		0.00	
10,383.3	9,879.0	ROLLINS.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
914.0	897.5	-43.3	124.6	Start 6823.3 hold at 914.0 MD
7,737.3	7,249.5	-861.8	2,478.1	Start Drop -3.00
8,451.3	7,947.0	-905.1	2,602.7	Start 2082.0 hold at 8451.3 MD
10,533.3	10,029.0	-905.1	2,602.7	TD at 10533.3