



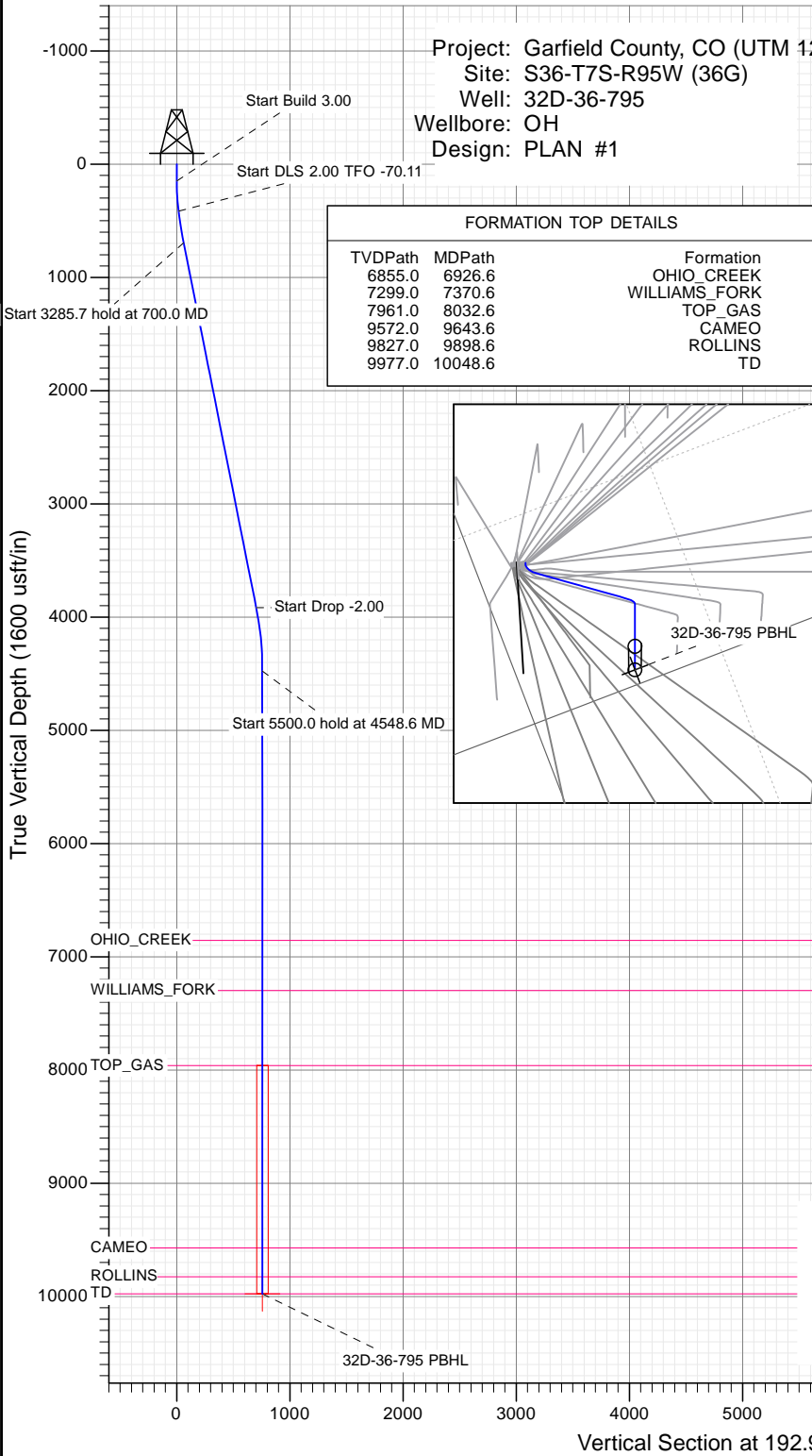
SECTION DETAILS

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	150.0	0.00	0.00	150.0	0.0	0.0	0.00	0.00	0.0	
3	416.7	8.00	220.00	415.8	-14.2	-11.9	3.00	220.00	16.6	
4	700.0	11.26	191.61	695.2	-56.5	-30.2	2.00	-70.11	61.8	
5	3985.7	11.26	191.61	3917.7	-684.8	-159.2	0.00	0.00	703.1	
6	4548.6	0.00	0.00	4477.0	-738.9	-170.3	2.00	180.00	758.2	
7	10048.6	0.00	0.00	9977.0	-738.9	-170.3	0.00	0.00	758.2	32D-36-795 PBHL

Project: Garfield County, CO (UTM 12
 Site: S36-T7S-R95W (36G)
 Well: 32D-36-795
 Wellbore: OH
 Design: PLAN #1

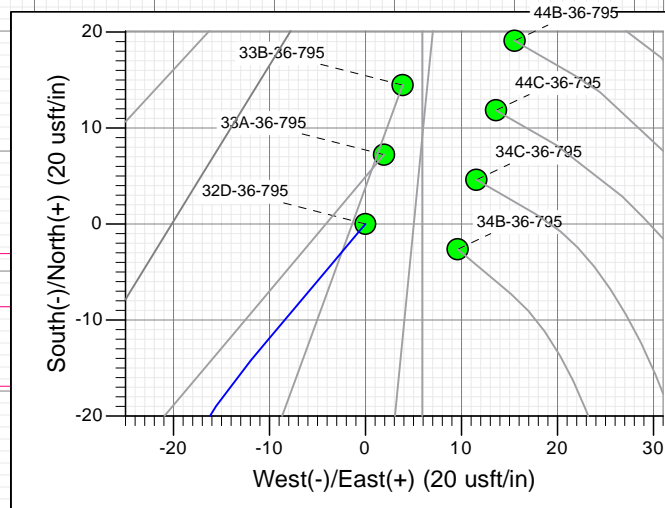
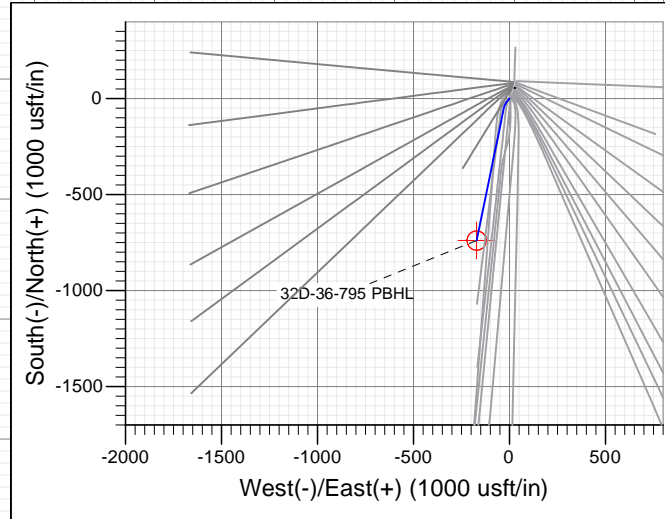
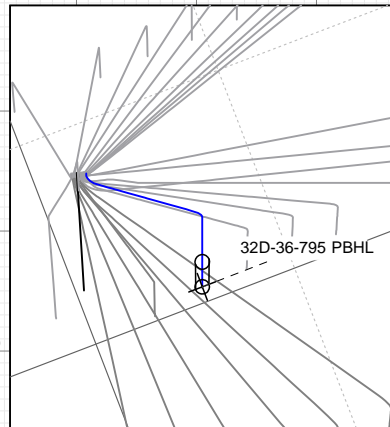
Name	Type	Target	TD	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD
32D-36-795 PBHL	TD	No Target (Freehand)	9977.0		192.98	Slot	0.0	0.0	0.0

PLAN #1
 32D-36-795
 15XXX LR
 KB @ 8902.0usft
 Ground Level @ 8872.0
 NAD 1927 - Western US
 Well 32D-36-795, True North



FORMATION TOP DETAILS

TVDPPath	MDPath	Formation
6855.0	6926.6	OHIO_CREEK
7299.0	7370.6	WILLIAMS_FORK
7961.0	8032.6	TOP_GAS
9572.0	9643.6	CAMEO
9827.0	9898.6	ROLLINS
9977.0	10048.6	TD



T M
 Azimuths to True North
 Magnetic North: 9.40°
 Magnetic Field
 Strength: 51872.6snT
 Dip Angle: 65.60°
 Date: 12/28/2015
 Model: HDGM

CASING DETAILS

No casing data is available



WELL DETAILS: 32D-36-795

+N/-S	+E/-W	Northing	Ground Level:	8872.0	Latitude	Longitude
0.0	0.0	14320569.30	Easting	2504526.40	39.395466	-107.941622



Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well 32D-36-795
Company: Caerus Oil & Gas	TVD Reference: KB @ 8902.0usft
Project: Garfield County, CO (UTM 12N)	MD Reference: KB @ 8902.0usft
Site: S36-T7S-R95W (36G)	North Reference: True
Well: 32D-36-795	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 S36-T7S-R95W (36G)		
Site Position:	Northing: 14,320,581.60 usft	Latitude: 39.395498
From: Map	Easting: 2,504,539.60 usft	Longitude: -107.941574
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16"	Grid Convergence: 1.94 °

Well 32D-36-795			
Well Position	+N/-S 0.0 usft	Northing: 14,320,569.30 usft	Latitude: 39.395466
	+E/-W 0.0 usft	Easting: 2,504,526.40 usft	Longitude: -107.941622
Position Uncertainty	0.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 8,872.0 usft

Wellbore OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	12/28/2015	(°) 9.40	(°) 65.60	(nT) 51,873

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	192.98

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	
150.0	0.00	0.00	150.0	0.0	0.0	0.00	0.00	0.00	0.00	
416.7	8.00	220.00	415.8	-14.2	-11.9	3.00	3.00	0.00	220.00	
700.0	11.26	191.61	695.2	-56.5	-30.2	2.00	1.15	-10.02	-70.11	
3,985.7	11.26	191.61	3,917.7	-684.8	-159.2	0.00	0.00	0.00	0.00	
4,548.6	0.00	0.00	4,477.0	-738.9	-170.3	2.00	-2.00	0.00	180.00	
10,048.6	0.00	0.00	9,977.0	-738.9	-170.3	0.00	0.00	0.00	0.00	32D-36-795 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 32D-36-795
Company:	Caerus Oil & Gas	TVD Reference:	KB @ 8902.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	KB @ 8902.0usft
Site:	S36-T7S-R95W (36G)	North Reference:	True
Well:	32D-36-795	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	
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	Start Build 3.00
200.0	1.50	220.00	200.0	-0.5	-0.4	0.6	3.00	3.00	
300.0	4.50	220.00	299.8	-4.5	-3.8	5.2	3.00	3.00	
400.0	7.50	220.00	399.3	-12.5	-10.5	14.6	3.00	3.00	
416.7	8.00	220.00	415.8	-14.2	-11.9	16.6	3.00	3.00	Start DLS 2.00 TFO -70.11
500.0	8.71	209.59	498.3	-24.2	-18.8	27.8	2.00	0.85	
600.0	9.87	199.45	596.9	-38.8	-25.4	43.5	2.00	1.16	
700.0	11.26	191.61	695.2	-56.5	-30.2	61.8	2.00	1.39	Start 3285.7 hold at 700.0 MD
800.0	11.26	191.61	793.3	-75.6	-34.1	81.3	0.00	0.00	
900.0	11.26	191.61	891.4	-94.7	-38.1	100.8	0.00	0.00	
1,000.0	11.26	191.61	989.5	-113.8	-42.0	120.4	0.00	0.00	
1,100.0	11.26	191.61	1,087.6	-133.0	-45.9	139.9	0.00	0.00	
1,200.0	11.26	191.61	1,185.6	-152.1	-49.8	159.4	0.00	0.00	
1,300.0	11.26	191.61	1,283.7	-171.2	-53.8	178.9	0.00	0.00	
1,400.0	11.26	191.61	1,381.8	-190.3	-57.7	198.4	0.00	0.00	
1,500.0	11.26	191.61	1,479.9	-209.5	-61.6	218.0	0.00	0.00	
1,600.0	11.26	191.61	1,577.9	-228.6	-65.5	237.5	0.00	0.00	
1,700.0	11.26	191.61	1,676.0	-247.7	-69.5	257.0	0.00	0.00	
1,800.0	11.26	191.61	1,774.1	-266.8	-73.4	276.5	0.00	0.00	
1,900.0	11.26	191.61	1,872.2	-286.0	-77.3	296.0	0.00	0.00	
2,000.0	11.26	191.61	1,970.2	-305.1	-81.3	315.6	0.00	0.00	
2,100.0	11.26	191.61	2,068.3	-324.2	-85.2	335.1	0.00	0.00	
2,200.0	11.26	191.61	2,166.4	-343.3	-89.1	354.6	0.00	0.00	
2,300.0	11.26	191.61	2,264.5	-362.5	-93.0	374.1	0.00	0.00	
2,400.0	11.26	191.61	2,362.5	-381.6	-97.0	393.6	0.00	0.00	
2,500.0	11.26	191.61	2,460.6	-400.7	-100.9	413.1	0.00	0.00	
2,600.0	11.26	191.61	2,558.7	-419.8	-104.8	432.7	0.00	0.00	
2,700.0	11.26	191.61	2,656.8	-439.0	-108.8	452.2	0.00	0.00	
2,800.0	11.26	191.61	2,754.8	-458.1	-112.7	471.7	0.00	0.00	
2,900.0	11.26	191.61	2,852.9	-477.2	-116.6	491.2	0.00	0.00	
3,000.0	11.26	191.61	2,951.0	-496.3	-120.5	510.7	0.00	0.00	
3,100.0	11.26	191.61	3,049.1	-515.5	-124.5	530.3	0.00	0.00	
3,200.0	11.26	191.61	3,147.1	-534.6	-128.4	549.8	0.00	0.00	
3,300.0	11.26	191.61	3,245.2	-553.7	-132.3	569.3	0.00	0.00	
3,400.0	11.26	191.61	3,343.3	-572.8	-136.2	588.8	0.00	0.00	
3,500.0	11.26	191.61	3,441.4	-592.0	-140.2	608.3	0.00	0.00	
3,600.0	11.26	191.61	3,539.4	-611.1	-144.1	627.8	0.00	0.00	
3,700.0	11.26	191.61	3,637.5	-630.2	-148.0	647.4	0.00	0.00	
3,800.0	11.26	191.61	3,735.6	-649.3	-152.0	666.9	0.00	0.00	
3,900.0	11.26	191.61	3,833.7	-668.5	-155.9	686.4	0.00	0.00	
3,985.7	11.26	191.61	3,917.7	-684.8	-159.2	703.1	0.00	0.00	Start Drop -2.00
4,000.0	10.97	191.61	3,931.8	-687.6	-159.8	705.9	2.00	-2.00	
4,100.0	8.97	191.61	4,030.2	-704.5	-163.3	723.2	2.00	-2.00	
4,200.0	6.97	191.61	4,129.3	-718.1	-166.1	737.1	2.00	-2.00	
4,300.0	4.97	191.61	4,228.7	-728.3	-168.2	747.5	2.00	-2.00	
4,400.0	2.97	191.61	4,328.5	-735.1	-169.6	754.4	2.00	-2.00	
4,500.0	0.97	191.61	4,428.4	-738.4	-170.3	757.8	2.00	-2.00	
4,548.6	0.00	0.00	4,477.0	-738.9	-170.3	758.2	2.00	-2.00	Start 5500.0 hold at 4548.6 MD
4,600.0	0.00	0.00	4,528.4	-738.9	-170.3	758.2	0.00	0.00	
4,700.0	0.00	0.00	4,628.4	-738.9	-170.3	758.2	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 32D-36-795
Company:	Caerus Oil & Gas	TVD Reference:	KB @ 8902.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	KB @ 8902.0usft
Site:	S36-T7S-R95W (36G)	North Reference:	True
Well:	32D-36-795	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
4,800.0	0.00	0.00	4,728.4	-738.9	-170.3	758.2	0.00	0.00	
4,900.0	0.00	0.00	4,828.4	-738.9	-170.3	758.2	0.00	0.00	
5,000.0	0.00	0.00	4,928.4	-738.9	-170.3	758.2	0.00	0.00	
5,100.0	0.00	0.00	5,028.4	-738.9	-170.3	758.2	0.00	0.00	
5,200.0	0.00	0.00	5,128.4	-738.9	-170.3	758.2	0.00	0.00	
5,300.0	0.00	0.00	5,228.4	-738.9	-170.3	758.2	0.00	0.00	
5,400.0	0.00	0.00	5,328.4	-738.9	-170.3	758.2	0.00	0.00	
5,500.0	0.00	0.00	5,428.4	-738.9	-170.3	758.2	0.00	0.00	
5,600.0	0.00	0.00	5,528.4	-738.9	-170.3	758.2	0.00	0.00	
5,700.0	0.00	0.00	5,628.4	-738.9	-170.3	758.2	0.00	0.00	
5,800.0	0.00	0.00	5,728.4	-738.9	-170.3	758.2	0.00	0.00	
5,900.0	0.00	0.00	5,828.4	-738.9	-170.3	758.2	0.00	0.00	
6,000.0	0.00	0.00	5,928.4	-738.9	-170.3	758.2	0.00	0.00	
6,100.0	0.00	0.00	6,028.4	-738.9	-170.3	758.2	0.00	0.00	
6,200.0	0.00	0.00	6,128.4	-738.9	-170.3	758.2	0.00	0.00	
6,300.0	0.00	0.00	6,228.4	-738.9	-170.3	758.2	0.00	0.00	
6,400.0	0.00	0.00	6,328.4	-738.9	-170.3	758.2	0.00	0.00	
6,500.0	0.00	0.00	6,428.4	-738.9	-170.3	758.2	0.00	0.00	
6,600.0	0.00	0.00	6,528.4	-738.9	-170.3	758.2	0.00	0.00	
6,700.0	0.00	0.00	6,628.4	-738.9	-170.3	758.2	0.00	0.00	
6,800.0	0.00	0.00	6,728.4	-738.9	-170.3	758.2	0.00	0.00	
6,900.0	0.00	0.00	6,828.4	-738.9	-170.3	758.2	0.00	0.00	
6,926.6	0.00	0.00	6,855.0	-738.9	-170.3	758.2	0.00	0.00	OHIO_CREEK
7,000.0	0.00	0.00	6,928.4	-738.9	-170.3	758.2	0.00	0.00	
7,100.0	0.00	0.00	7,028.4	-738.9	-170.3	758.2	0.00	0.00	
7,200.0	0.00	0.00	7,128.4	-738.9	-170.3	758.2	0.00	0.00	
7,300.0	0.00	0.00	7,228.4	-738.9	-170.3	758.2	0.00	0.00	
7,370.6	0.00	0.00	7,299.0	-738.9	-170.3	758.2	0.00	0.00	WILLIAMS_FORK
7,400.0	0.00	0.00	7,328.4	-738.9	-170.3	758.2	0.00	0.00	
7,500.0	0.00	0.00	7,428.4	-738.9	-170.3	758.2	0.00	0.00	
7,600.0	0.00	0.00	7,528.4	-738.9	-170.3	758.2	0.00	0.00	
7,700.0	0.00	0.00	7,628.4	-738.9	-170.3	758.2	0.00	0.00	
7,800.0	0.00	0.00	7,728.4	-738.9	-170.3	758.2	0.00	0.00	
7,900.0	0.00	0.00	7,828.4	-738.9	-170.3	758.2	0.00	0.00	
8,000.0	0.00	0.00	7,928.4	-738.9	-170.3	758.2	0.00	0.00	
8,032.6	0.00	0.00	7,961.0	-738.9	-170.3	758.2	0.00	0.00	TOP_GAS
8,100.0	0.00	0.00	8,028.4	-738.9	-170.3	758.2	0.00	0.00	
8,200.0	0.00	0.00	8,128.4	-738.9	-170.3	758.2	0.00	0.00	
8,300.0	0.00	0.00	8,228.4	-738.9	-170.3	758.2	0.00	0.00	
8,400.0	0.00	0.00	8,328.4	-738.9	-170.3	758.2	0.00	0.00	
8,500.0	0.00	0.00	8,428.4	-738.9	-170.3	758.2	0.00	0.00	
8,600.0	0.00	0.00	8,528.4	-738.9	-170.3	758.2	0.00	0.00	
8,700.0	0.00	0.00	8,628.4	-738.9	-170.3	758.2	0.00	0.00	
8,800.0	0.00	0.00	8,728.4	-738.9	-170.3	758.2	0.00	0.00	
8,900.0	0.00	0.00	8,828.4	-738.9	-170.3	758.2	0.00	0.00	
9,000.0	0.00	0.00	8,928.4	-738.9	-170.3	758.2	0.00	0.00	
9,100.0	0.00	0.00	9,028.4	-738.9	-170.3	758.2	0.00	0.00	
9,200.0	0.00	0.00	9,128.4	-738.9	-170.3	758.2	0.00	0.00	
9,300.0	0.00	0.00	9,228.4	-738.9	-170.3	758.2	0.00	0.00	
9,400.0	0.00	0.00	9,328.4	-738.9	-170.3	758.2	0.00	0.00	
9,500.0	0.00	0.00	9,428.4	-738.9	-170.3	758.2	0.00	0.00	
9,600.0	0.00	0.00	9,528.4	-738.9	-170.3	758.2	0.00	0.00	

Planning Report

Database: USA EDM 5000 Multi Users DB	Local Co-ordinate Reference: Well 32D-36-795
Company: Caerus Oil & Gas	TVD Reference: KB @ 8902.0usft
Project: Garfield County, CO (UTM 12N)	MD Reference: KB @ 8902.0usft
Site: S36-T7S-R95W (36G)	North Reference: True
Well: 32D-36-795	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
9,643.6	0.00	0.00	9,572.0	-738.9	-170.3	758.2	0.00	0.00	CAMEO
9,700.0	0.00	0.00	9,628.4	-738.9	-170.3	758.2	0.00	0.00	
9,800.0	0.00	0.00	9,728.4	-738.9	-170.3	758.2	0.00	0.00	
9,898.6	0.00	0.00	9,827.0	-738.9	-170.3	758.2	0.00	0.00	ROLLINS
9,900.0	0.00	0.00	9,828.4	-738.9	-170.3	758.2	0.00	0.00	
10,000.0	0.00	0.00	9,928.4	-738.9	-170.3	758.2	0.00	0.00	
10,048.6	0.00	0.00	9,977.0	-738.9	-170.3	758.2	0.00	0.00	TD at 10048.6 - TD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
32D-36-795 PBHL - hit/miss target - Shape - Circle (radius 50.0)	0.00	0.00	9,977.0	-738.9	-170.3	14,319,825.10	2,504,381.20	39.393438	-107.942224

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,926.6	6,855.0	OHIO_CREEK				
7,370.6	7,299.0	WILLIAMS_FORK				
8,032.6	7,961.0	TOP_GAS				
9,643.6	9,572.0	CAMEO				
9,898.6	9,827.0	ROLLINS				
10,048.6	9,977.0	TD				

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
150.0	150.0	0.0	0.0	Start Build 3.00
416.7	415.8	-14.2	-11.9	Start DLS 2.00 TFO -70.11
700.0	695.2	-56.5	-30.2	Start 3285.7 hold at 700.0 MD
3,985.7	3,917.7	-684.8	-159.2	Start Drop -2.00
4,548.6	4,477.0	-738.9	-170.3	Start 5500.0 hold at 4548.6 MD
10,048.6	9,977.0	-738.9	-170.3	TD at 10048.6