



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	691.5	14.75	308.77	686.1	39.4	-49.0	3.00	308.77	62.9	
4	7534.7	14.75	308.77	7303.9	1130.1	-1407.0	0.00	0.00	1804.6	
5	8026.2	0.00	0.00	7790.0	1169.4	-1456.0	3.00	180.00	1867.5	
6	10114.2	0.00	0.00	9878.0	1169.4	-1456.0	0.00	0.00	1867.5	42C-35-795 PBHL

Project: Garfield County, CO (UTM 12
 Site: S36-T7S-R95W (36L)
 Well: 42C-35-795
 Wellbore: OH
 Design: PLAN #1

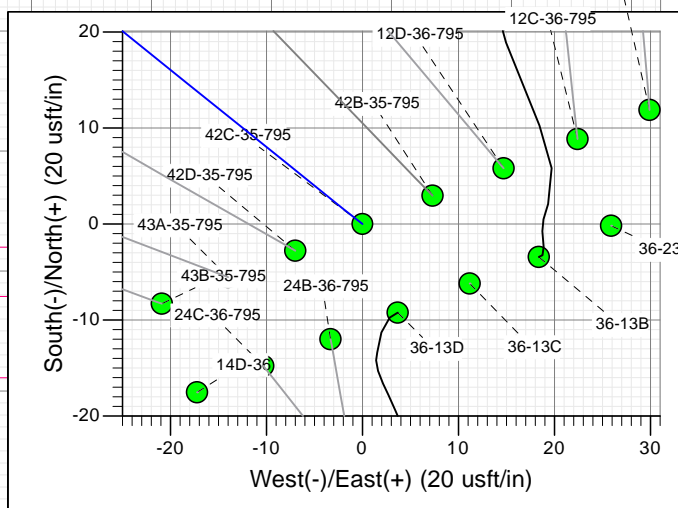
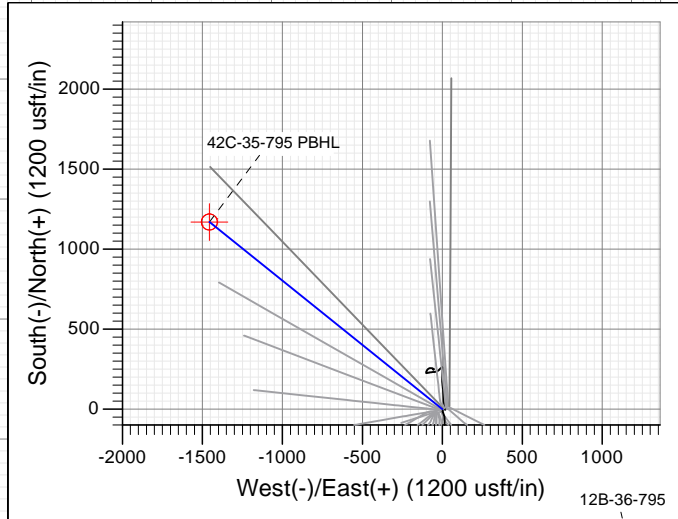
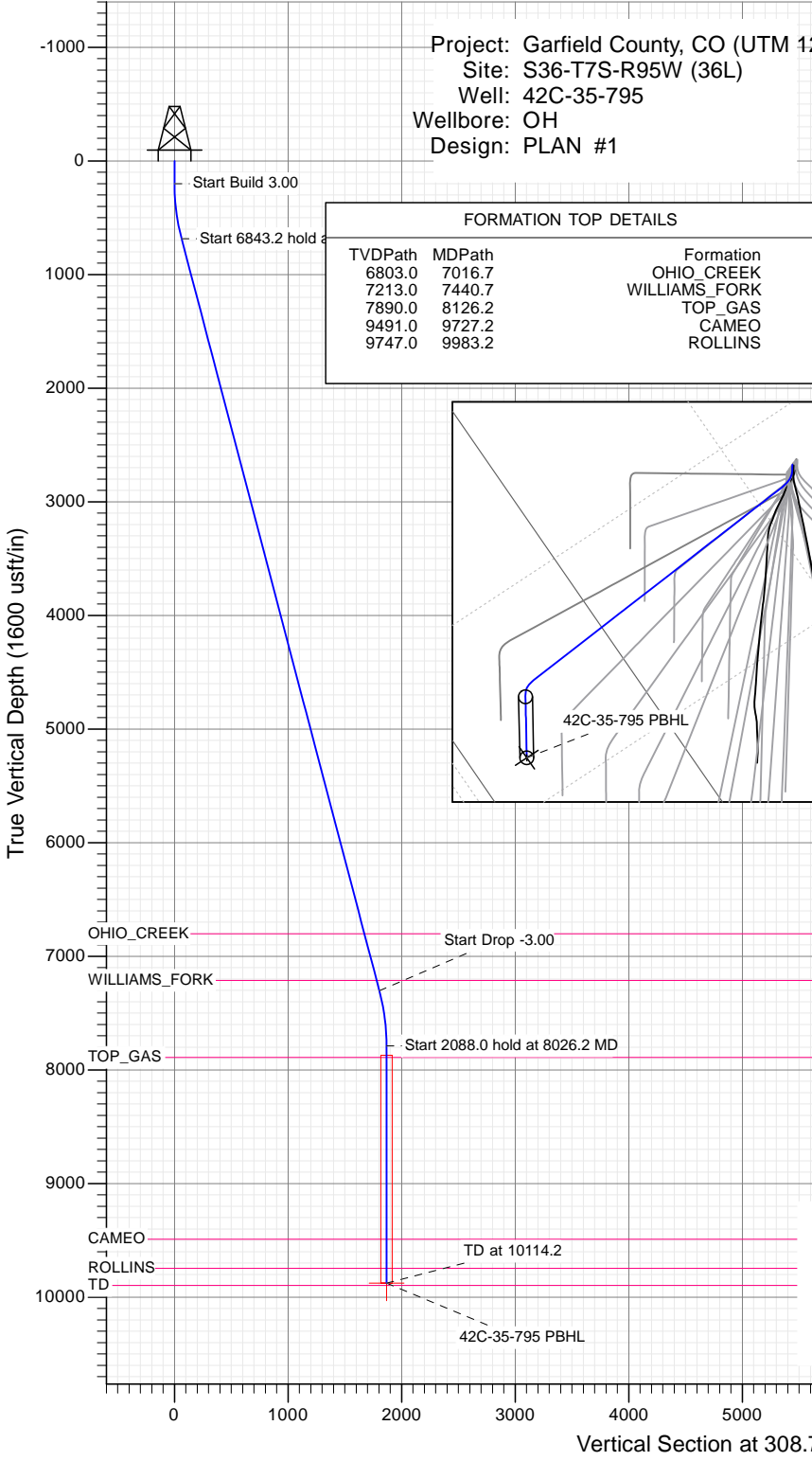
PLAN #1
 42C-35-795
 15XXX LR
 30' KB @ 8931.0usft
 Ground Level @ 8991.0
 NAD 1927 - Western US
 Well 42C-35-795, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	308.77	Slot	0.0	0.0	0.0

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
42C-35-795 PBHL	9878.0	1169.4	-1456.0	39.395377	-107.957432

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
6803.0	7016.7	OHIO_CREEK
7213.0	7440.7	WILLIAMS_FORK
7890.0	8126.2	TOP_GAS
9491.0	9727.2	CAMEO
9747.0	9983.2	ROLLINS



TM

Azimuths to True North
 Magnetic North: 9.42°

Magnetic Field
 Strength: 51881.2snT
 Dip Angle: 65.60°
 Date: 12/14/2015
 Model: HDGM

CASING DETAILS
 No casing data is available



WELL DETAILS: 42C-35-795

Ground Level: 8991.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14319266.20	2501554.40	39.392168	-107.952283

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 42C-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8931.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8931.0usft
Site:	S36-T7S-R95W (36L)	North Reference:	True
Well:	42C-35-795	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 (36L)				
Site Position:		Northing:	14,319,276.10 usft	Latitude:	39.392190
From:	Map	Easting:	2,501,602.10 usft	Longitude:	-107.952113
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.94 °

Well	42C-35-795					
Well Position	+N/-S	0.0 usft	Northing:	14,319,266.20 usft	Latitude:	39.392168
	+E/-W	0.0 usft	Easting:	2,501,554.40 usft	Longitude:	-107.952283
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,901.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	12/14/2015	9.42	65.60	51,881

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	308.77

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	
691.5	14.75	308.77	686.1	39.4	-49.0	3.00	3.00	0.00	308.77	
7,534.7	14.75	308.77	7,303.9	1,130.1	-1,407.0	0.00	0.00	0.00	0.00	
8,026.2	0.00	0.00	7,790.0	1,169.4	-1,456.0	3.00	-3.00	0.00	180.00	
10,114.2	0.00	0.00	9,878.0	1,169.4	-1,456.0	0.00	0.00	0.00	0.00	42C-35-795 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 42C-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8931.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8931.0usft
Site:	S36-T7S-R95W (36L)	North Reference:	True
Well:	42C-35-795	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	308.77	300.0	1.6	-2.0	2.6	3.00	3.00	
400.0	6.00	308.77	399.6	6.6	-8.2	10.5	3.00	3.00	
500.0	9.00	308.77	498.8	14.7	-18.3	23.5	3.00	3.00	
600.0	12.00	308.77	597.1	26.1	-32.5	41.7	3.00	3.00	
691.5	14.75	308.77	686.1	39.4	-49.0	62.9	3.00	3.00	Start 6843.2 hold at 691.5 MD
700.0	14.75	308.77	694.3	40.7	-50.7	65.1	0.00	0.00	
800.0	14.75	308.77	791.0	56.7	-70.6	90.5	0.00	0.00	
900.0	14.75	308.77	887.7	72.6	-90.4	116.0	0.00	0.00	
1,000.0	14.75	308.77	984.4	88.6	-110.3	141.4	0.00	0.00	
1,100.0	14.75	308.77	1,081.1	104.5	-130.1	166.9	0.00	0.00	
1,200.0	14.75	308.77	1,177.8	120.4	-149.9	192.3	0.00	0.00	
1,300.0	14.75	308.77	1,274.6	136.4	-169.8	217.8	0.00	0.00	
1,400.0	14.75	308.77	1,371.3	152.3	-189.6	243.2	0.00	0.00	
1,500.0	14.75	308.77	1,468.0	168.2	-209.5	268.7	0.00	0.00	
1,600.0	14.75	308.77	1,564.7	184.2	-229.3	294.1	0.00	0.00	
1,700.0	14.75	308.77	1,661.4	200.1	-249.2	319.6	0.00	0.00	
1,800.0	14.75	308.77	1,758.1	216.1	-269.0	345.0	0.00	0.00	
1,900.0	14.75	308.77	1,854.8	232.0	-288.9	370.5	0.00	0.00	
2,000.0	14.75	308.77	1,951.5	247.9	-308.7	395.9	0.00	0.00	
2,100.0	14.75	308.77	2,048.2	263.9	-328.5	421.4	0.00	0.00	
2,200.0	14.75	308.77	2,144.9	279.8	-348.4	446.8	0.00	0.00	
2,300.0	14.75	308.77	2,241.6	295.7	-368.2	472.3	0.00	0.00	
2,400.0	14.75	308.77	2,338.3	311.7	-388.1	497.7	0.00	0.00	
2,500.0	14.75	308.77	2,435.0	327.6	-407.9	523.2	0.00	0.00	
2,600.0	14.75	308.77	2,531.7	343.6	-427.8	548.6	0.00	0.00	
2,700.0	14.75	308.77	2,628.4	359.5	-447.6	574.1	0.00	0.00	
2,800.0	14.75	308.77	2,725.1	375.4	-467.4	599.6	0.00	0.00	
2,900.0	14.75	308.77	2,821.9	391.4	-487.3	625.0	0.00	0.00	
3,000.0	14.75	308.77	2,918.6	407.3	-507.1	650.5	0.00	0.00	
3,100.0	14.75	308.77	3,015.3	423.3	-527.0	675.9	0.00	0.00	
3,200.0	14.75	308.77	3,112.0	439.2	-546.8	701.4	0.00	0.00	
3,300.0	14.75	308.77	3,208.7	455.1	-566.7	726.8	0.00	0.00	
3,400.0	14.75	308.77	3,305.4	471.1	-586.5	752.3	0.00	0.00	
3,500.0	14.75	308.77	3,402.1	487.0	-606.4	777.7	0.00	0.00	
3,600.0	14.75	308.77	3,498.8	502.9	-626.2	803.2	0.00	0.00	
3,700.0	14.75	308.77	3,595.5	518.9	-646.0	828.6	0.00	0.00	
3,800.0	14.75	308.77	3,692.2	534.8	-665.9	854.1	0.00	0.00	
3,900.0	14.75	308.77	3,788.9	550.8	-685.7	879.5	0.00	0.00	
4,000.0	14.75	308.77	3,885.6	566.7	-705.6	905.0	0.00	0.00	
4,100.0	14.75	308.77	3,982.3	582.6	-725.4	930.4	0.00	0.00	
4,200.0	14.75	308.77	4,079.0	598.6	-745.3	955.9	0.00	0.00	
4,300.0	14.75	308.77	4,175.7	614.5	-765.1	981.3	0.00	0.00	
4,400.0	14.75	308.77	4,272.5	630.4	-785.0	1,006.8	0.00	0.00	
4,500.0	14.75	308.77	4,369.2	646.4	-804.8	1,032.2	0.00	0.00	
4,600.0	14.75	308.77	4,465.9	662.3	-824.6	1,057.7	0.00	0.00	
4,700.0	14.75	308.77	4,562.6	678.3	-844.5	1,083.1	0.00	0.00	
4,800.0	14.75	308.77	4,659.3	694.2	-864.3	1,108.6	0.00	0.00	
4,900.0	14.75	308.77	4,756.0	710.1	-884.2	1,134.0	0.00	0.00	
5,000.0	14.75	308.77	4,852.7	726.1	-904.0	1,159.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 42C-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8931.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8931.0usft
Site:	S36-T7S-R95W (36L)	North Reference:	True
Well:	42C-35-795	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	14.75	308.77	4,949.4	742.0	-923.9	1,184.9	0.00	0.00	
5,200.0	14.75	308.77	5,046.1	758.0	-943.7	1,210.4	0.00	0.00	
5,300.0	14.75	308.77	5,142.8	773.9	-963.5	1,235.9	0.00	0.00	
5,400.0	14.75	308.77	5,239.5	789.8	-983.4	1,261.3	0.00	0.00	
5,500.0	14.75	308.77	5,336.2	805.8	-1,003.2	1,286.8	0.00	0.00	
5,600.0	14.75	308.77	5,432.9	821.7	-1,023.1	1,312.2	0.00	0.00	
5,700.0	14.75	308.77	5,529.6	837.6	-1,042.9	1,337.7	0.00	0.00	
5,800.0	14.75	308.77	5,626.3	853.6	-1,062.8	1,363.1	0.00	0.00	
5,900.0	14.75	308.77	5,723.1	869.5	-1,082.6	1,388.6	0.00	0.00	
6,000.0	14.75	308.77	5,819.8	885.5	-1,102.5	1,414.0	0.00	0.00	
6,100.0	14.75	308.77	5,916.5	901.4	-1,122.3	1,439.5	0.00	0.00	
6,200.0	14.75	308.77	6,013.2	917.3	-1,142.1	1,464.9	0.00	0.00	
6,300.0	14.75	308.77	6,109.9	933.3	-1,162.0	1,490.4	0.00	0.00	
6,400.0	14.75	308.77	6,206.6	949.2	-1,181.8	1,515.8	0.00	0.00	
6,500.0	14.75	308.77	6,303.3	965.1	-1,201.7	1,541.3	0.00	0.00	
6,600.0	14.75	308.77	6,400.0	981.1	-1,221.5	1,566.7	0.00	0.00	
6,700.0	14.75	308.77	6,496.7	997.0	-1,241.4	1,592.2	0.00	0.00	
6,800.0	14.75	308.77	6,593.4	1,013.0	-1,261.2	1,617.6	0.00	0.00	
6,900.0	14.75	308.77	6,690.1	1,028.9	-1,281.1	1,643.1	0.00	0.00	
7,000.0	14.75	308.77	6,786.8	1,044.8	-1,300.9	1,668.5	0.00	0.00	
7,016.7	14.75	308.77	6,803.0	1,047.5	-1,304.2	1,672.8	0.00	0.00	OHIO_CREEK
7,100.0	14.75	308.77	6,883.5	1,060.8	-1,320.7	1,694.0	0.00	0.00	
7,200.0	14.75	308.77	6,980.2	1,076.7	-1,340.6	1,719.4	0.00	0.00	
7,300.0	14.75	308.77	7,076.9	1,092.7	-1,360.4	1,744.9	0.00	0.00	
7,400.0	14.75	308.77	7,173.6	1,108.6	-1,380.3	1,770.3	0.00	0.00	
7,440.7	14.75	308.77	7,213.0	1,115.1	-1,388.3	1,780.7	0.00	0.00	WILLIAMS_FORK
7,500.0	14.75	308.77	7,270.4	1,124.5	-1,400.1	1,795.8	0.00	0.00	
7,534.7	14.75	308.77	7,303.9	1,130.1	-1,407.0	1,804.6	0.00	0.00	Start Drop -3.00
7,600.0	12.79	308.77	7,367.3	1,139.8	-1,419.1	1,820.2	3.00	-3.00	
7,700.0	9.79	308.77	7,465.4	1,152.0	-1,434.4	1,839.7	3.00	-3.00	
7,800.0	6.79	308.77	7,564.3	1,161.1	-1,445.6	1,854.1	3.00	-3.00	
7,900.0	3.79	308.77	7,663.9	1,166.8	-1,452.8	1,863.4	3.00	-3.00	
8,000.0	0.79	308.77	7,763.8	1,169.3	-1,455.9	1,867.3	3.00	-3.00	
8,026.2	0.00	0.00	7,790.0	1,169.4	-1,456.0	1,867.5	3.00	-3.00	Start 2088.0 hold at 8026.2 MD
8,100.0	0.00	0.00	7,863.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,126.2	0.00	0.00	7,890.0	1,169.4	-1,456.0	1,867.5	0.00	0.00	TOP_GAS
8,200.0	0.00	0.00	7,963.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,300.0	0.00	0.00	8,063.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,400.0	0.00	0.00	8,163.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,500.0	0.00	0.00	8,263.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,600.0	0.00	0.00	8,363.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,700.0	0.00	0.00	8,463.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,800.0	0.00	0.00	8,563.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
8,900.0	0.00	0.00	8,663.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,000.0	0.00	0.00	8,763.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,100.0	0.00	0.00	8,863.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,200.0	0.00	0.00	8,963.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,300.0	0.00	0.00	9,063.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,400.0	0.00	0.00	9,163.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,500.0	0.00	0.00	9,263.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,600.0	0.00	0.00	9,363.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,700.0	0.00	0.00	9,463.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 42C-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8931.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8931.0usft
Site:	S36-T7S-R95W (36L)	North Reference:	True
Well:	42C-35-795	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
9,727.2	0.00	0.00	9,491.0	1,169.4	-1,456.0	1,867.5	0.00	0.00	CAMEO
9,800.0	0.00	0.00	9,563.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,900.0	0.00	0.00	9,663.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
9,983.2	0.00	0.00	9,747.0	1,169.4	-1,456.0	1,867.5	0.00	0.00	ROLLINS
10,000.0	0.00	0.00	9,763.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
10,100.0	0.00	0.00	9,863.8	1,169.4	-1,456.0	1,867.5	0.00	0.00	
10,114.2	0.00	0.00	9,878.0	1,169.4	-1,456.0	1,867.5	0.00	0.00	TD at 10114.2

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
42C-35-795 PBHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	9,878.0	1,169.4	-1,456.0	14,320,385.80	2,500,059.70	39.395377	-107.957432

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
7,016.7	6,803.0	OHIO_CREEK				
7,440.7	7,213.0	WILLIAMS_FORK				
8,126.2	7,890.0	TOP_GAS				
9,727.2	9,491.0	CAMEO				
9,983.2	9,747.0	ROLLINS				

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
691.5	686.1	39.4	-49.0	Start 6843.2 hold at 691.5 MD
7,534.7	7,303.9	1,130.1	-1,407.0	Start Drop -3.00
8,026.2	7,790.0	1,169.4	-1,456.0	Start 2088.0 hold at 8026.2 MD
10,114.2	9,878.0	1,169.4	-1,456.0	TD at 10114.2