

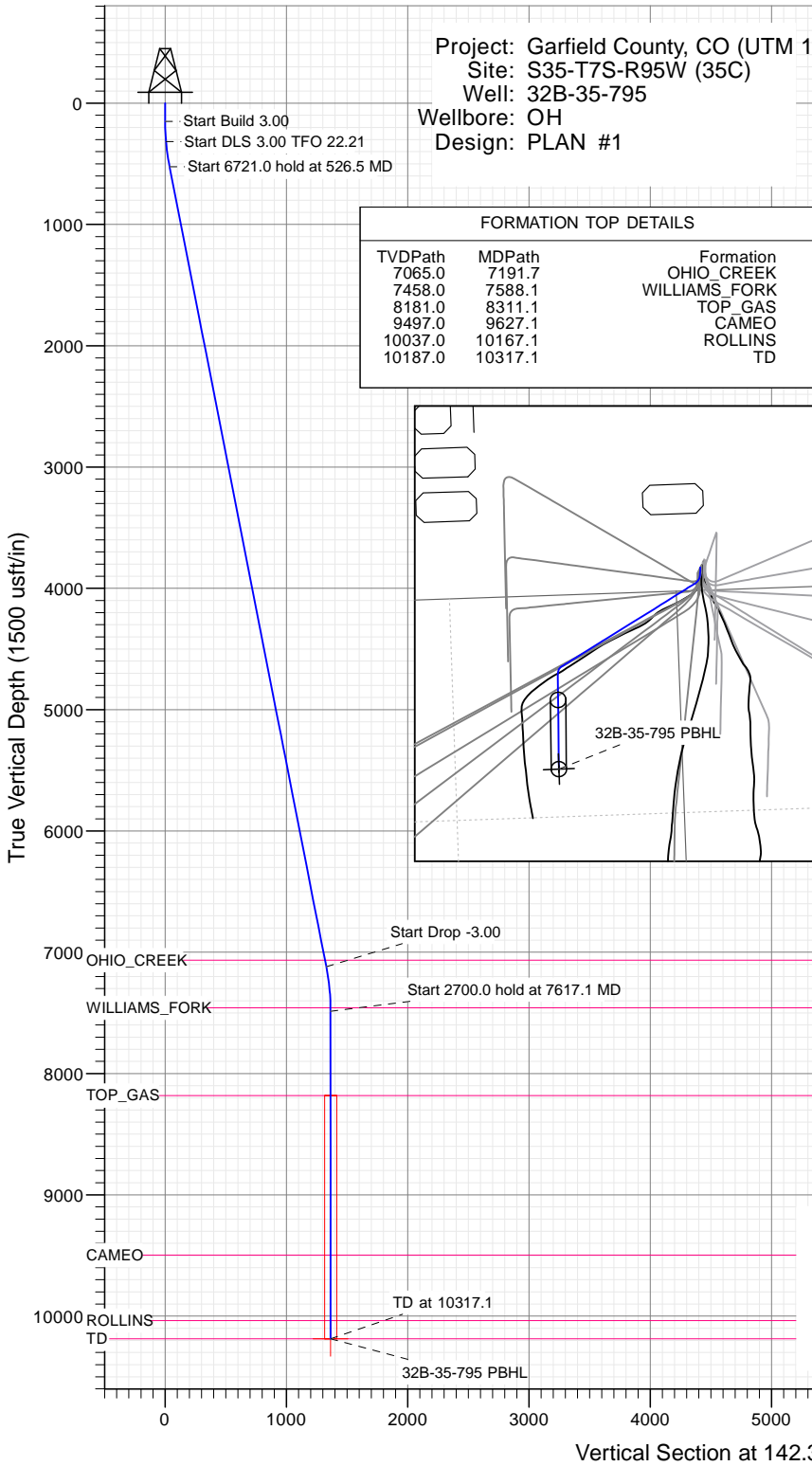


SECTION DETAILS

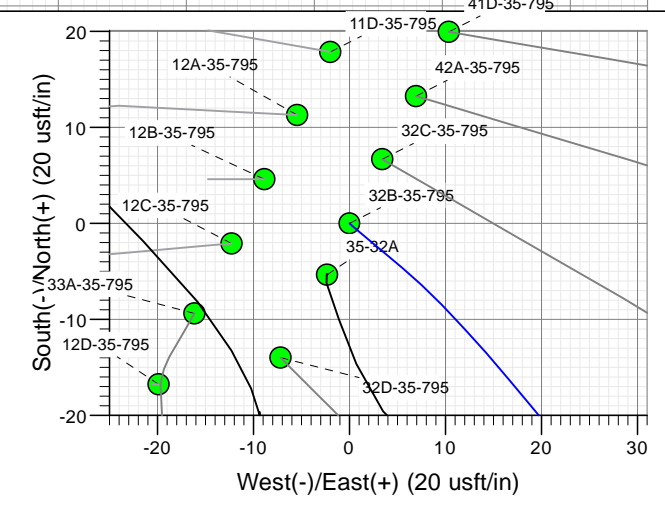
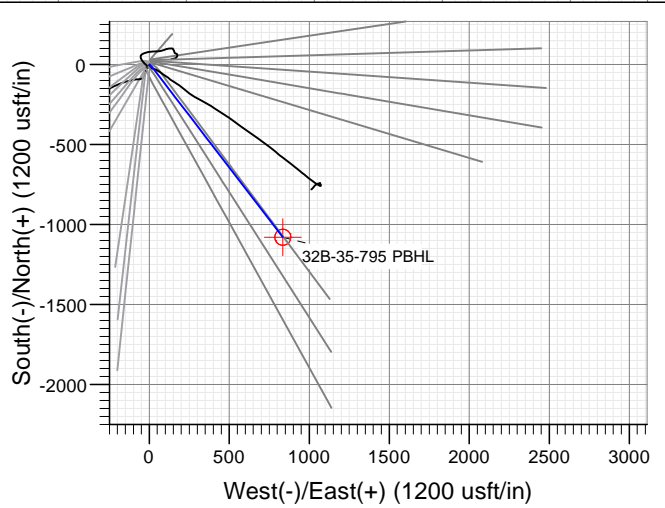
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSection	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	150.0	0.00	0.00	150.0	0.0	0.0	0.00	0.00	0.0	
3	316.7	5.00	130.00	316.5	-4.7	5.6	3.00	130.00	7.1	
4	526.5	11.09	142.45	524.2	-26.6	24.9	3.00	22.21	36.2	
5	7247.5	11.09	142.45	7119.7	-1051.2	812.6	0.00	0.00	1328.6	
6	7617.1	0.00	0.00	7487.0	-1079.5	834.3	3.00	180.00	1364.3	
7	10317.1	0.00	0.00	10187.0	-1079.5	834.3	0.00	0.00	1364.3	32B-35-795 PBHL

Project: Garfield County, CO (UTM 1
Site: S35-T7S-R95W (35C)
Well: 32B-35-795
Wellbore: OH
Design: PLAN #1

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	142.30	Slot	0.0	0.0	0.0
Name		TVD	+N/-S	+E/-W	Latitude	Longitude
32B-35-795 PBHL		10187.0	-1079.5	834.3	39.39898	-107.96293



FORMATION TOP DETAILS
TVDPATH MDPATH Formation
7065.0 7191.7 OHIO_CREEK
7458.0 7588.1 WILLIAMS_FORK
8181.0 8311.1 TOP_GAS
9497.0 9627.1 CAMEO
10037.0 10167.1 ROLLINS
10187.0 10317.1 TD



Azimuths to True North
Magnetic North: 9.43°
Magnetic Field
Strength: 51875.1nT
Dip Angle: 65.62°
Date: 1/18/2016
Model: HDGM

CASING DETAILS
No casing data is available



WELL DETAILS: 32B-35-795

+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude
0.0	0.0	14321606.80	9236.0	2497621.90	39.398951	-107.965904



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 32B-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	32B-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		S35-T7S-R95W (35C)			
Site Position:		Northing:	14,321,562.10 usft	Latitude:	39.398831
From:	Map	Easting:	2,497,589.70 usft	Longitude:	-107.966023
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.93 °

Well	32B-35-795					
Well Position	+N/-S	0.0 usft	Northing:	14,321,606.80 usft	Latitude:	39.398951
	+E/-W	0.0 usft	Easting:	2,497,621.90 usft	Longitude:	-107.965904
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	9,236.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	1/18/2016	9.43	65.62	51,875

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	142.30

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	
316.7	5.00	130.00	316.5	-4.7	5.6	3.00	3.00	0.00	130.00	
526.5	11.09	142.45	524.2	-26.6	24.9	3.00	2.90	5.93	22.21	
7,247.5	11.09	142.45	7,119.7	-1,051.2	812.6	0.00	0.00	0.00	0.00	
7,617.1	0.00	0.00	7,487.0	-1,079.5	834.3	3.00	-3.00	0.00	180.00	
10,317.1	0.00	0.00	10,187.0	-1,079.5	834.3	0.00	0.00	0.00	0.00	32B-35-795 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 32B-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	32B-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	
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	130.00	200.0	-0.4	0.5	0.6	3.00	3.00	
300.0	4.50	130.00	299.8	-3.8	4.5	5.8	3.00	3.00	
316.7	5.00	130.00	316.5	-4.7	5.6	7.1	3.00	3.00	Start DLS 3.00 TFO 22.21
400.0	7.38	137.38	399.3	-10.9	12.0	16.0	3.00	2.85	
500.0	10.30	141.69	498.1	-22.7	21.9	31.3	3.00	2.93	
526.5	11.09	142.45	524.2	-26.6	24.9	36.2	3.00	2.95	Start 6721.0 hold at 526.5 MD
600.0	11.09	142.45	596.3	-37.8	33.5	50.4	0.00	0.00	
700.0	11.09	142.45	694.4	-53.0	45.2	69.6	0.00	0.00	
800.0	11.09	142.45	792.5	-68.3	56.9	88.8	0.00	0.00	
900.0	11.09	142.45	890.7	-83.5	68.7	108.1	0.00	0.00	
1,000.0	11.09	142.45	988.8	-98.8	80.4	127.3	0.00	0.00	
1,100.0	11.09	142.45	1,086.9	-114.0	92.1	146.5	0.00	0.00	
1,200.0	11.09	142.45	1,185.1	-129.2	103.8	165.7	0.00	0.00	
1,300.0	11.09	142.45	1,283.2	-144.5	115.5	185.0	0.00	0.00	
1,400.0	11.09	142.45	1,381.3	-159.7	127.3	204.2	0.00	0.00	
1,500.0	11.09	142.45	1,479.5	-175.0	139.0	223.4	0.00	0.00	
1,600.0	11.09	142.45	1,577.6	-190.2	150.7	242.7	0.00	0.00	
1,700.0	11.09	142.45	1,675.7	-205.5	162.4	261.9	0.00	0.00	
1,800.0	11.09	142.45	1,773.9	-220.7	174.1	281.1	0.00	0.00	
1,900.0	11.09	142.45	1,872.0	-236.0	185.9	300.3	0.00	0.00	
2,000.0	11.09	142.45	1,970.1	-251.2	197.6	319.6	0.00	0.00	
2,100.0	11.09	142.45	2,068.3	-266.4	209.3	338.8	0.00	0.00	
2,200.0	11.09	142.45	2,166.4	-281.7	221.0	358.0	0.00	0.00	
2,300.0	11.09	142.45	2,264.5	-296.9	232.7	377.3	0.00	0.00	
2,400.0	11.09	142.45	2,362.7	-312.2	244.4	396.5	0.00	0.00	
2,500.0	11.09	142.45	2,460.8	-327.4	256.2	415.7	0.00	0.00	
2,600.0	11.09	142.45	2,558.9	-342.7	267.9	435.0	0.00	0.00	
2,700.0	11.09	142.45	2,657.1	-357.9	279.6	454.2	0.00	0.00	
2,800.0	11.09	142.45	2,755.2	-373.2	291.3	473.4	0.00	0.00	
2,900.0	11.09	142.45	2,853.3	-388.4	303.0	492.6	0.00	0.00	
3,000.0	11.09	142.45	2,951.5	-403.7	314.8	511.9	0.00	0.00	
3,100.0	11.09	142.45	3,049.6	-418.9	326.5	531.1	0.00	0.00	
3,200.0	11.09	142.45	3,147.7	-434.1	338.2	550.3	0.00	0.00	
3,300.0	11.09	142.45	3,245.9	-449.4	349.9	569.6	0.00	0.00	
3,400.0	11.09	142.45	3,344.0	-464.6	361.6	588.8	0.00	0.00	
3,500.0	11.09	142.45	3,442.1	-479.9	373.4	608.0	0.00	0.00	
3,600.0	11.09	142.45	3,540.3	-495.1	385.1	627.2	0.00	0.00	
3,700.0	11.09	142.45	3,638.4	-510.4	396.8	646.5	0.00	0.00	
3,800.0	11.09	142.45	3,736.5	-525.6	408.5	665.7	0.00	0.00	
3,900.0	11.09	142.45	3,834.7	-540.9	420.2	684.9	0.00	0.00	
4,000.0	11.09	142.45	3,932.8	-556.1	432.0	704.2	0.00	0.00	
4,100.0	11.09	142.45	4,031.0	-571.4	443.7	723.4	0.00	0.00	
4,200.0	11.09	142.45	4,129.1	-586.6	455.4	742.6	0.00	0.00	
4,300.0	11.09	142.45	4,227.2	-601.8	467.1	761.8	0.00	0.00	
4,400.0	11.09	142.45	4,325.4	-617.1	478.8	781.1	0.00	0.00	
4,500.0	11.09	142.45	4,423.5	-632.3	490.6	800.3	0.00	0.00	
4,600.0	11.09	142.45	4,521.6	-647.6	502.3	819.5	0.00	0.00	
4,700.0	11.09	142.45	4,619.8	-662.8	514.0	838.8	0.00	0.00	
4,800.0	11.09	142.45	4,717.9	-678.1	525.7	858.0	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 32B-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	32B-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
4,900.0	11.09	142.45	4,816.0	-693.3	537.4	877.2	0.00	0.00	
5,000.0	11.09	142.45	4,914.2	-708.6	549.2	896.5	0.00	0.00	
5,100.0	11.09	142.45	5,012.3	-723.8	560.9	915.7	0.00	0.00	
5,200.0	11.09	142.45	5,110.4	-739.1	572.6	934.9	0.00	0.00	
5,300.0	11.09	142.45	5,208.6	-754.3	584.3	954.1	0.00	0.00	
5,400.0	11.09	142.45	5,306.7	-769.5	596.0	973.4	0.00	0.00	
5,500.0	11.09	142.45	5,404.8	-784.8	607.8	992.6	0.00	0.00	
5,600.0	11.09	142.45	5,503.0	-800.0	619.5	1,011.8	0.00	0.00	
5,700.0	11.09	142.45	5,601.1	-815.3	631.2	1,031.1	0.00	0.00	
5,800.0	11.09	142.45	5,699.2	-830.5	642.9	1,050.3	0.00	0.00	
5,900.0	11.09	142.45	5,797.4	-845.8	654.6	1,069.5	0.00	0.00	
6,000.0	11.09	142.45	5,895.5	-861.0	666.3	1,088.7	0.00	0.00	
6,100.0	11.09	142.45	5,993.6	-876.3	678.1	1,108.0	0.00	0.00	
6,200.0	11.09	142.45	6,091.8	-891.5	689.8	1,127.2	0.00	0.00	
6,300.0	11.09	142.45	6,189.9	-906.8	701.5	1,146.4	0.00	0.00	
6,400.0	11.09	142.45	6,288.0	-922.0	713.2	1,165.7	0.00	0.00	
6,500.0	11.09	142.45	6,386.2	-937.2	724.9	1,184.9	0.00	0.00	
6,600.0	11.09	142.45	6,484.3	-952.5	736.7	1,204.1	0.00	0.00	
6,700.0	11.09	142.45	6,582.4	-967.7	748.4	1,223.3	0.00	0.00	
6,800.0	11.09	142.45	6,680.6	-983.0	760.1	1,242.6	0.00	0.00	
6,900.0	11.09	142.45	6,778.7	-998.2	771.8	1,261.8	0.00	0.00	
7,000.0	11.09	142.45	6,876.8	-1,013.5	783.5	1,281.0	0.00	0.00	
7,100.0	11.09	142.45	6,975.0	-1,028.7	795.3	1,300.3	0.00	0.00	
7,191.7	11.09	142.45	7,065.0	-1,042.7	806.0	1,317.9	0.00	0.00	OHIO_CREEK
7,200.0	11.09	142.45	7,073.1	-1,044.0	807.0	1,319.5	0.00	0.00	
7,247.5	11.09	142.45	7,119.7	-1,051.2	812.6	1,328.6	0.00	0.00	Start Drop -3.00
7,300.0	9.51	142.45	7,171.4	-1,058.6	818.3	1,338.0	3.00	-3.00	
7,400.0	6.51	142.45	7,270.4	-1,069.7	826.8	1,352.0	3.00	-3.00	
7,500.0	3.51	142.45	7,370.0	-1,076.6	832.1	1,360.7	3.00	-3.00	
7,588.1	0.87	142.45	7,458.0	-1,079.3	834.1	1,364.1	3.00	-3.00	WILLIAMS_FORK
7,600.0	0.51	142.45	7,469.9	-1,079.4	834.2	1,364.2	3.00	-3.00	
7,617.1	0.00	0.00	7,487.0	-1,079.5	834.3	1,364.3	3.00	-3.00	Start 2700.0 hold at 7617.1 MD
7,700.0	0.00	0.00	7,569.9	-1,079.5	834.3	1,364.3	0.00	0.00	
7,800.0	0.00	0.00	7,669.9	-1,079.5	834.3	1,364.3	0.00	0.00	
7,900.0	0.00	0.00	7,769.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,000.0	0.00	0.00	7,869.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,100.0	0.00	0.00	7,969.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,200.0	0.00	0.00	8,069.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,300.0	0.00	0.00	8,169.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,311.1	0.00	0.00	8,181.0	-1,079.5	834.3	1,364.3	0.00	0.00	TOP_GAS
8,400.0	0.00	0.00	8,269.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,500.0	0.00	0.00	8,369.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,600.0	0.00	0.00	8,469.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,700.0	0.00	0.00	8,569.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,800.0	0.00	0.00	8,669.9	-1,079.5	834.3	1,364.3	0.00	0.00	
8,900.0	0.00	0.00	8,769.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,000.0	0.00	0.00	8,869.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,100.0	0.00	0.00	8,969.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,200.0	0.00	0.00	9,069.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,300.0	0.00	0.00	9,169.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,400.0	0.00	0.00	9,269.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,500.0	0.00	0.00	9,369.9	-1,079.5	834.3	1,364.3	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 32B-35-795
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 9266.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 9266.0usft
Site:	S35-T7S-R95W (35C)	North Reference:	True
Well:	32B-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
9,600.0	0.00	0.00	9,469.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,700.0	0.00	0.00	9,569.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,800.0	0.00	0.00	9,669.9	-1,079.5	834.3	1,364.3	0.00	0.00	
9,900.0	0.00	0.00	9,769.9	-1,079.5	834.3	1,364.3	0.00	0.00	
10,000.0	0.00	0.00	9,869.9	-1,079.5	834.3	1,364.3	0.00	0.00	
10,100.0	0.00	0.00	9,969.9	-1,079.5	834.3	1,364.3	0.00	0.00	
10,167.1	0.00	0.00	10,037.0	-1,079.5	834.3	1,364.3	0.00	0.00	ROLLINS
10,200.0	0.00	0.00	10,069.9	-1,079.5	834.3	1,364.3	0.00	0.00	
10,300.0	0.00	0.00	10,169.9	-1,079.5	834.3	1,364.3	0.00	0.00	
10,317.1	0.00	0.00	10,187.0	-1,079.5	834.3	1,364.3	0.00	0.00	TD at 10317.1 - TD

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
32B-35-795 PBHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	10,187.0	-1,079.5	834.3	14,320,556.00	2,498,492.00	39.395988	-107.962953

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,191.7	7,065.0	OHIO_CREEK			
7,588.1	7,458.0	WILLIAMS_FORK			
8,311.1	8,181.0	TOP_GAS			
10,167.1	10,037.0	ROLLINS			
10,317.1	10,187.0	TD			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
150.0	150.0	0.0	0.0	Start Build 3.00
316.7	316.5	-4.7	5.6	Start DLS 3.00 TFO 22.21
526.5	524.2	-26.6	24.9	Start 6721.0 hold at 526.5 MD
7,247.5	7,119.7	-1,051.2	812.6	Start Drop -3.00
7,617.1	7,487.0	-1,079.5	834.3	Start 2700.0 hold at 7617.1 MD
10,317.1	10,187.0	-1,079.5	834.3	TD at 10317.1