

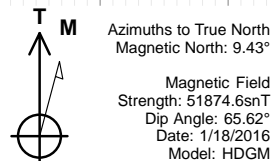
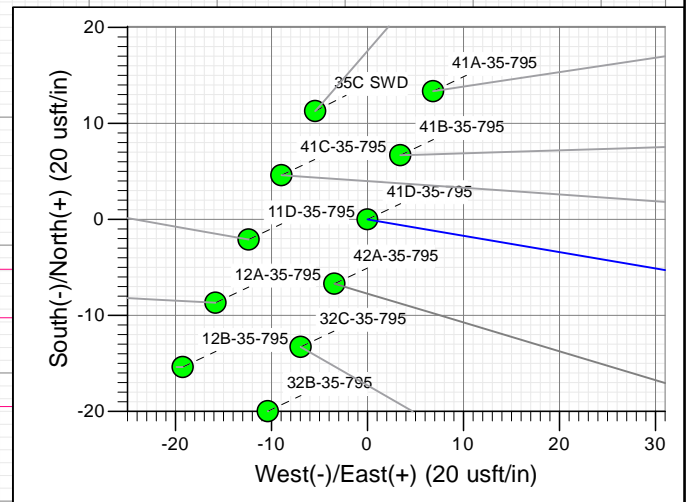
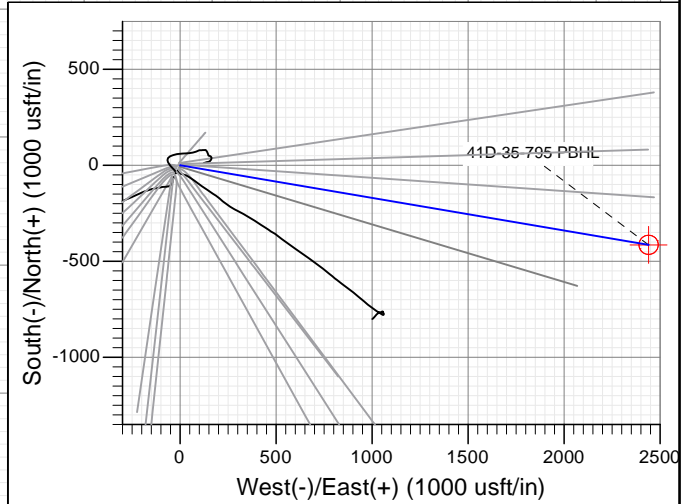
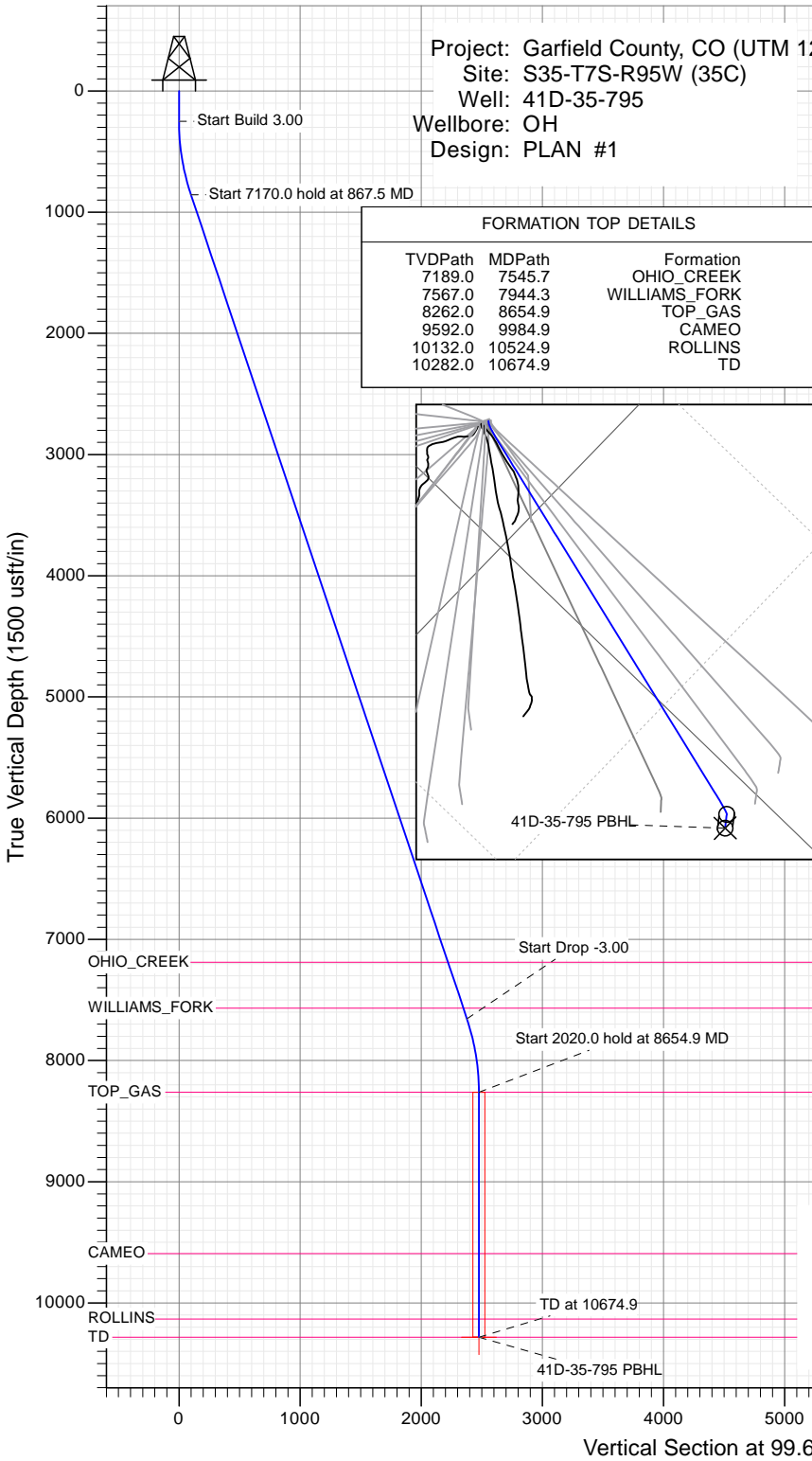


SECTION DETAILS

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	250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0	
3	867.5	18.52	99.63	856.8	-16.6	97.5	3.00	99.63	98.9	
4	8037.4	18.52	99.63	7655.2	-397.6	2343.3	0.00	0.00	2376.8	
5	8654.9	0.00	0.00	8262.0	-414.1	2440.9	3.00	180.00	2475.7	
6	10674.9	0.00	0.00	10282.0	-414.1	2440.9	0.00	0.00	2475.7	41D-35-795 PBHL

Project: Garfield County, CO (UTM 12
Site: S35-T7S-R95W (35C)
Well: 41D-35-795
Wellbore: OH
Design: PLAN #1

PLAN #1 41D-35-795 16XXX LR 30' KB @ 9266.0usft Ground Level @ 9236.0 NAD 1927 - Western US Well 41D-35-795, True North									
Name	Type	Target	No Target (Freehand)	Azimuth	Origin Type	Slot	N/S	E/W	From TVD
41D-35-795 PBHL	TVD			99.63			N/S	E/W	0.0
							+N/-S	+E/-W	
							Latitude	Longitude	
							39.397869	-107.957234	



CASING DETAILS									
No casing data is available									



WELL DETAILS: 41D-35-795

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14321627.10	2497631.60	39.399006	-107.965867



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 41D-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:	41D-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	41D-35-795					
Well Position	+N/-S	0.0 usft	Northing:	14,321,627.10 usft	Latitude:	39.399006
	+E/-W	0.0 usft	Easting:	2,497,631.60 usft	Longitude:	-107.965867
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	99.63

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
867.5	18.52	99.63	856.8	-16.6	97.5	3.00	3.00	0.00	99.63	
8,037.4	18.52	99.63	7,655.2	-397.6	2,343.3	0.00	0.00	0.00	0.00	
8,654.9	0.00	0.00	8,262.0	-414.1	2,440.9	3.00	-3.00	0.00	180.00	
10,674.9	0.00	0.00	10,282.0	-414.1	2,440.9	0.00	0.00	0.00	0.00	41D-35-795 PBHL

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 41D-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:	41D-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	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	Start Build 3.00
300.0	1.50	99.63	300.0	-0.1	0.6	0.7	3.00	3.00	
400.0	4.50	99.63	399.8	-1.0	5.8	5.9	3.00	3.00	
500.0	7.50	99.63	499.3	-2.7	16.1	16.3	3.00	3.00	
600.0	10.50	99.63	598.0	-5.3	31.5	32.0	3.00	3.00	
700.0	13.50	99.63	695.8	-8.8	52.0	52.8	3.00	3.00	
800.0	16.50	99.63	792.4	-13.2	77.5	78.6	3.00	3.00	
867.5	18.52	99.63	856.8	-16.6	97.5	98.9	3.00	3.00	Start 7170.0 hold at 867.5 MD
900.0	18.52	99.63	887.6	-18.3	107.7	109.3	0.00	0.00	
1,000.0	18.52	99.63	982.4	-23.6	139.1	141.1	0.00	0.00	
1,100.0	18.52	99.63	1,077.3	-28.9	170.4	172.8	0.00	0.00	
1,200.0	18.52	99.63	1,172.1	-34.2	201.7	204.6	0.00	0.00	
1,300.0	18.52	99.63	1,266.9	-39.5	233.0	236.4	0.00	0.00	
1,400.0	18.52	99.63	1,361.7	-44.8	264.4	268.1	0.00	0.00	
1,500.0	18.52	99.63	1,456.5	-50.2	295.7	299.9	0.00	0.00	
1,600.0	18.52	99.63	1,551.3	-55.5	327.0	331.7	0.00	0.00	
1,700.0	18.52	99.63	1,646.2	-60.8	358.3	363.4	0.00	0.00	
1,800.0	18.52	99.63	1,741.0	-66.1	389.6	395.2	0.00	0.00	
1,900.0	18.52	99.63	1,835.8	-71.4	421.0	427.0	0.00	0.00	
2,000.0	18.52	99.63	1,930.6	-76.7	452.3	458.7	0.00	0.00	
2,100.0	18.52	99.63	2,025.4	-82.0	483.6	490.5	0.00	0.00	
2,200.0	18.52	99.63	2,120.3	-87.4	514.9	522.3	0.00	0.00	
2,300.0	18.52	99.63	2,215.1	-92.7	546.2	554.1	0.00	0.00	
2,400.0	18.52	99.63	2,309.9	-98.0	577.6	585.8	0.00	0.00	
2,500.0	18.52	99.63	2,404.7	-103.3	608.9	617.6	0.00	0.00	
2,600.0	18.52	99.63	2,499.5	-108.6	640.2	649.4	0.00	0.00	
2,700.0	18.52	99.63	2,594.4	-113.9	671.5	681.1	0.00	0.00	
2,800.0	18.52	99.63	2,689.2	-119.2	702.9	712.9	0.00	0.00	
2,900.0	18.52	99.63	2,784.0	-124.6	734.2	744.7	0.00	0.00	
3,000.0	18.52	99.63	2,878.8	-129.9	765.5	776.4	0.00	0.00	
3,100.0	18.52	99.63	2,973.6	-135.2	796.8	808.2	0.00	0.00	
3,200.0	18.52	99.63	3,068.5	-140.5	828.1	840.0	0.00	0.00	
3,300.0	18.52	99.63	3,163.3	-145.8	859.5	871.7	0.00	0.00	
3,400.0	18.52	99.63	3,258.1	-151.1	890.8	903.5	0.00	0.00	
3,500.0	18.52	99.63	3,352.9	-156.4	922.1	935.3	0.00	0.00	
3,600.0	18.52	99.63	3,447.7	-161.8	953.4	967.1	0.00	0.00	
3,700.0	18.52	99.63	3,542.6	-167.1	984.8	998.8	0.00	0.00	
3,800.0	18.52	99.63	3,637.4	-172.4	1,016.1	1,030.6	0.00	0.00	
3,900.0	18.52	99.63	3,732.2	-177.7	1,047.4	1,062.4	0.00	0.00	
4,000.0	18.52	99.63	3,827.0	-183.0	1,078.7	1,094.1	0.00	0.00	
4,100.0	18.52	99.63	3,921.8	-188.3	1,110.0	1,125.9	0.00	0.00	
4,200.0	18.52	99.63	4,016.7	-193.6	1,141.4	1,157.7	0.00	0.00	
4,300.0	18.52	99.63	4,111.5	-199.0	1,172.7	1,189.4	0.00	0.00	
4,400.0	18.52	99.63	4,206.3	-204.3	1,204.0	1,221.2	0.00	0.00	
4,500.0	18.52	99.63	4,301.1	-209.6	1,235.3	1,253.0	0.00	0.00	
4,600.0	18.52	99.63	4,395.9	-214.9	1,266.7	1,284.8	0.00	0.00	
4,700.0	18.52	99.63	4,490.7	-220.2	1,298.0	1,316.5	0.00	0.00	
4,800.0	18.52	99.63	4,585.6	-225.5	1,329.3	1,348.3	0.00	0.00	
4,900.0	18.52	99.63	4,680.4	-230.8	1,360.6	1,380.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 41D-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:	41D-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
5,000.0	18.52	99.63	4,775.2	-236.2	1,391.9	1,411.8	0.00	0.00	
5,100.0	18.52	99.63	4,870.0	-241.5	1,423.3	1,443.6	0.00	0.00	
5,200.0	18.52	99.63	4,964.8	-246.8	1,454.6	1,475.4	0.00	0.00	
5,300.0	18.52	99.63	5,059.7	-252.1	1,485.9	1,507.1	0.00	0.00	
5,400.0	18.52	99.63	5,154.5	-257.4	1,517.2	1,538.9	0.00	0.00	
5,500.0	18.52	99.63	5,249.3	-262.7	1,548.5	1,570.7	0.00	0.00	
5,600.0	18.52	99.63	5,344.1	-268.0	1,579.9	1,602.4	0.00	0.00	
5,700.0	18.52	99.63	5,438.9	-273.4	1,611.2	1,634.2	0.00	0.00	
5,800.0	18.52	99.63	5,533.8	-278.7	1,642.5	1,666.0	0.00	0.00	
5,900.0	18.52	99.63	5,628.6	-284.0	1,673.8	1,697.8	0.00	0.00	
6,000.0	18.52	99.63	5,723.4	-289.3	1,705.2	1,729.5	0.00	0.00	
6,100.0	18.52	99.63	5,818.2	-294.6	1,736.5	1,761.3	0.00	0.00	
6,200.0	18.52	99.63	5,913.0	-299.9	1,767.8	1,793.1	0.00	0.00	
6,300.0	18.52	99.63	6,007.9	-305.2	1,799.1	1,824.8	0.00	0.00	
6,400.0	18.52	99.63	6,102.7	-310.6	1,830.4	1,856.6	0.00	0.00	
6,500.0	18.52	99.63	6,197.5	-315.9	1,861.8	1,888.4	0.00	0.00	
6,600.0	18.52	99.63	6,292.3	-321.2	1,893.1	1,920.1	0.00	0.00	
6,700.0	18.52	99.63	6,387.1	-326.5	1,924.4	1,951.9	0.00	0.00	
6,800.0	18.52	99.63	6,482.0	-331.8	1,955.7	1,983.7	0.00	0.00	
6,900.0	18.52	99.63	6,576.8	-337.1	1,987.1	2,015.4	0.00	0.00	
7,000.0	18.52	99.63	6,671.6	-342.4	2,018.4	2,047.2	0.00	0.00	
7,100.0	18.52	99.63	6,766.4	-347.7	2,049.7	2,079.0	0.00	0.00	
7,200.0	18.52	99.63	6,861.2	-353.1	2,081.0	2,110.8	0.00	0.00	
7,300.0	18.52	99.63	6,956.1	-358.4	2,112.3	2,142.5	0.00	0.00	
7,400.0	18.52	99.63	7,050.9	-363.7	2,143.7	2,174.3	0.00	0.00	
7,500.0	18.52	99.63	7,145.7	-369.0	2,175.0	2,206.1	0.00	0.00	
7,545.7	18.52	99.63	7,189.0	-371.4	2,189.3	2,220.6	0.00	0.00	OHIO_CREEK
7,600.0	18.52	99.63	7,240.5	-374.3	2,206.3	2,237.8	0.00	0.00	
7,700.0	18.52	99.63	7,335.3	-379.6	2,237.6	2,269.6	0.00	0.00	
7,800.0	18.52	99.63	7,430.1	-384.9	2,268.9	2,301.4	0.00	0.00	
7,900.0	18.52	99.63	7,525.0	-390.3	2,300.3	2,333.1	0.00	0.00	
7,944.3	18.52	99.63	7,567.0	-392.6	2,314.2	2,347.2	0.00	0.00	WILLIAMS_FORK
8,000.0	18.52	99.63	7,619.8	-395.6	2,331.6	2,364.9	0.00	0.00	
8,037.4	18.52	99.63	7,655.2	-397.6	2,343.3	2,376.8	0.00	0.00	Start Drop -3.00
8,100.0	16.65	99.63	7,714.9	-400.7	2,362.0	2,395.7	3.00	-3.00	
8,200.0	13.65	99.63	7,811.4	-405.1	2,387.7	2,421.8	3.00	-3.00	
8,300.0	10.65	99.63	7,909.2	-408.6	2,408.4	2,442.9	3.00	-3.00	
8,400.0	7.65	99.63	8,007.9	-411.3	2,424.1	2,458.8	3.00	-3.00	
8,500.0	4.65	99.63	8,107.3	-413.1	2,434.7	2,469.5	3.00	-3.00	
8,600.0	1.65	99.63	8,207.2	-414.0	2,440.1	2,474.9	3.00	-3.00	
8,654.9	0.00	0.00	8,262.0	-414.1	2,440.9	2,475.7	3.00	-3.00	Start 2020.0 hold at 8654.9 MD - TOP_GAS
8,700.0	0.00	0.00	8,307.1	-414.1	2,440.9	2,475.7	0.00	0.00	
8,800.0	0.00	0.00	8,407.1	-414.1	2,440.9	2,475.7	0.00	0.00	
8,900.0	0.00	0.00	8,507.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,000.0	0.00	0.00	8,607.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,100.0	0.00	0.00	8,707.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,200.0	0.00	0.00	8,807.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,300.0	0.00	0.00	8,907.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,400.0	0.00	0.00	9,007.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,500.0	0.00	0.00	9,107.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,600.0	0.00	0.00	9,207.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,700.0	0.00	0.00	9,307.1	-414.1	2,440.9	2,475.7	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well 41D-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:	41D-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
9,800.0	0.00	0.00	9,407.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,900.0	0.00	0.00	9,507.1	-414.1	2,440.9	2,475.7	0.00	0.00	
9,984.9	0.00	0.00	9,592.0	-414.1	2,440.9	2,475.7	0.00	0.00	CAMEO
10,000.0	0.00	0.00	9,607.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,100.0	0.00	0.00	9,707.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,200.0	0.00	0.00	9,807.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,300.0	0.00	0.00	9,907.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,400.0	0.00	0.00	10,007.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,500.0	0.00	0.00	10,107.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,524.9	0.00	0.00	10,132.0	-414.1	2,440.9	2,475.7	0.00	0.00	ROLLINS
10,600.0	0.00	0.00	10,207.1	-414.1	2,440.9	2,475.7	0.00	0.00	
10,674.9	0.00	0.00	10,282.0	-414.1	2,440.9	2,475.7	0.00	0.00	TD at 10674.9 - 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
41D-35-795 PBHL - plan hits target center - Circle (radius 50.0)	0.00	0.00	10,282.0	-414.1	2,440.9	14,321,295.30	2,500,085.00	39.397869	-107.957234

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
7,545.7	7,189.0	OHIO_CREEK			
7,944.3	7,567.0	WILLIAMS_FORK			
8,654.9	8,262.0	TOP_GAS			
9,984.9	9,592.0	CAMEO		0.00	
10,524.9	10,132.0	ROLLINS			
10,674.9	10,282.0	TD			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
250.0	250.0	0.0	0.0	Start Build 3.00
867.5	856.8	-16.6	97.5	Start 7170.0 hold at 867.5 MD
8,037.4	7,655.2	-397.6	2,343.3	Start Drop -3.00
8,654.9	8,262.0	-414.1	2,440.9	Start 2020.0 hold at 8654.9 MD
10,674.9	10,282.0	-414.1	2,440.9	TD at 10674.9