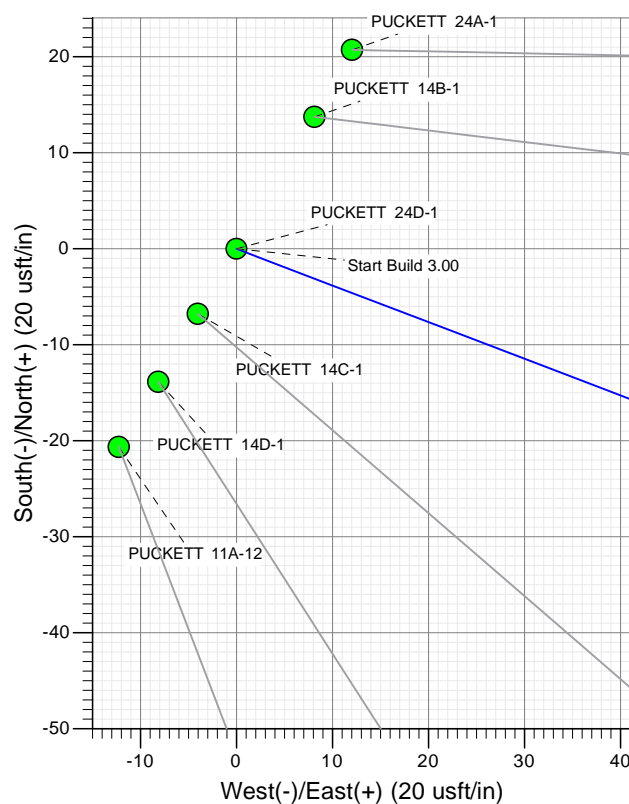
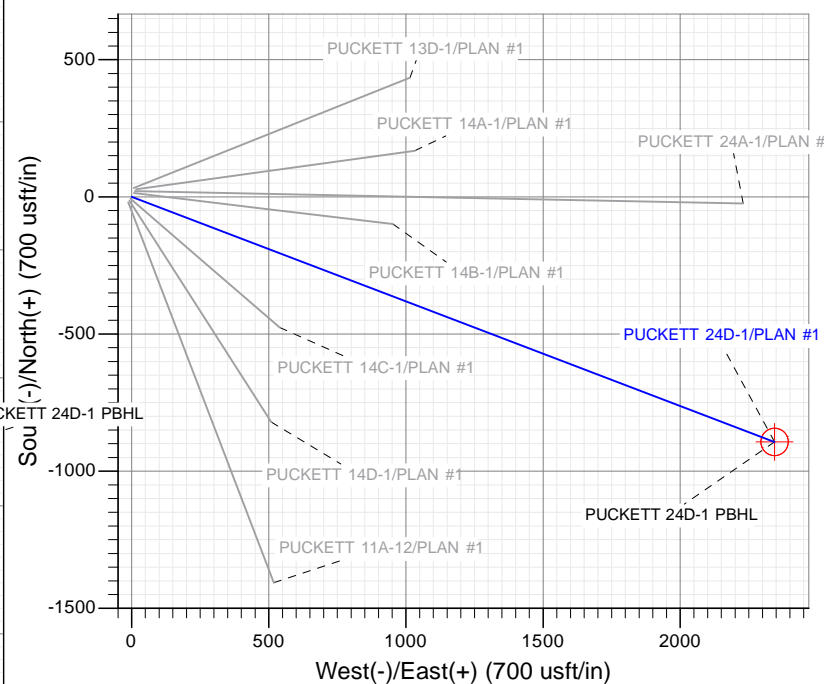
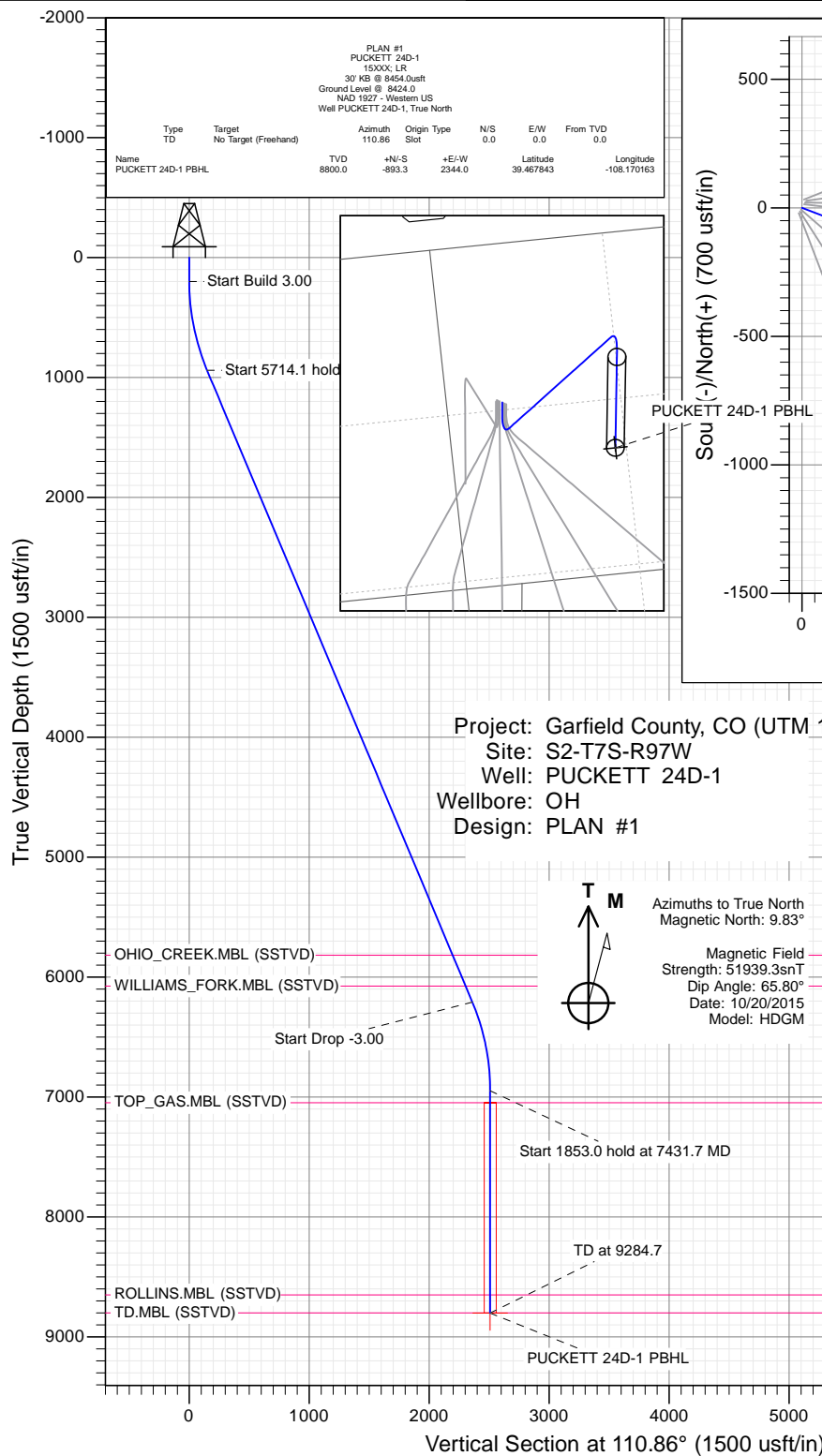




## SECTION DETAILS

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	958.8	22.76	110.86	939.0	-53.0	139.0	3.00	110.86	148.8	
4	6672.9	22.76	110.86	6208.0	-840.4	2205.0	0.00	0.00	2359.7	
5	7431.7	0.00	0.00	6947.0	-893.3	2344.0	3.00	180.00	2508.4	
6	9284.7	0.00	0.00	8800.0	-893.3	2344.0	0.00	0.00	2508.4	PUCKETT 24D-1 PBHL



## WELL DETAILS: PUCKETT 24D-1

+N/-S	+E/-W	Northing	Ground Level:	8424.0	Latitude	Longitude
0.0	0.0	14345639.40	Easting	2436745.60	39.470295	-108.178463

CATHEDRAL



## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 24D-1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8454.0usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8454.0usft
<b>Site:</b>	S2-T7S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 24D-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

<b>Project</b>	Garfield County, CO (UTM 12N)		
<b>Map System:</b>	Universal Transverse Mercator (US Survey Feet)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 - Western US		
<b>Map Zone:</b>	Zone 12N (114 W to 108 W)		

Site		S2-T7S-R97W			
Site Position:		Northing:	14,345,665.30 usft	Latitude:	39.470366
From:	Map	Easting:	2,436,748.30 usft	Longitude:	-108.178450
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.79 °

Well	PUCKETT 24D-1					
Well Position	+N/-S	0.0 usft	Northing:	14,345,639.40 usft	Latitude:	39.470295
	+E/-W	0.0 usft	Easting:	2,436,745.60 usft	Longitude:	-108.178463
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,424.0 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
			(°)	(°)	(nT)
	HDGM	10/20/2015	9.83	65.80	51,939

<b>Design</b>	PLAN #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	110.86

<b>Plan Sections</b>										
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	
958.8	22.76	110.86	939.0	-53.0	139.0	3.00	3.00	0.00	110.86	
6,672.9	22.76	110.86	6,208.0	-840.4	2,205.0	0.00	0.00	0.00	0.00	
7,431.7	0.00	0.00	6,947.0	-893.3	2,344.0	3.00	-3.00	0.00	180.00	
9,284.7	0.00	0.00	8,800.0	-893.3	2,344.0	0.00	0.00	0.00	0.00	PUCKETT 24D-1 PBI

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 24D-1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8454.0usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8454.0usft
<b>Site:</b>	S2-T7S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 24D-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	110.86	300.0	-0.9	2.4	2.6	3.00	3.00	
400.0	6.00	110.86	399.6	-3.7	9.8	10.5	3.00	3.00	
500.0	9.00	110.86	498.8	-8.4	22.0	23.5	3.00	3.00	
600.0	12.00	110.86	597.1	-14.9	39.0	41.7	3.00	3.00	
700.0	15.00	110.86	694.3	-23.2	60.8	65.1	3.00	3.00	
800.0	18.00	110.86	790.2	-33.3	87.3	93.5	3.00	3.00	
900.0	21.00	110.86	884.4	-45.2	118.5	126.9	3.00	3.00	
958.8	22.76	110.86	939.0	-53.0	139.0	148.8	3.00	3.00	Start 5714.1 hold at 958.8 MD
1,000.0	22.76	110.86	977.0	-58.7	153.9	164.7	0.00	0.00	
1,100.0	22.76	110.86	1,069.2	-72.4	190.1	203.4	0.00	0.00	
1,200.0	22.76	110.86	1,161.4	-86.2	226.2	242.1	0.00	0.00	
1,300.0	22.76	110.86	1,253.6	-100.0	262.4	280.8	0.00	0.00	
1,400.0	22.76	110.86	1,345.8	-113.8	298.5	319.5	0.00	0.00	
1,500.0	22.76	110.86	1,438.0	-127.6	334.7	358.2	0.00	0.00	
1,600.0	22.76	110.86	1,530.3	-141.3	370.8	396.9	0.00	0.00	
1,700.0	22.76	110.86	1,622.5	-155.1	407.0	435.6	0.00	0.00	
1,800.0	22.76	110.86	1,714.7	-168.9	443.2	474.2	0.00	0.00	
1,900.0	22.76	110.86	1,806.9	-182.7	479.3	512.9	0.00	0.00	
2,000.0	22.76	110.86	1,899.1	-196.5	515.5	551.6	0.00	0.00	
2,100.0	22.76	110.86	1,991.3	-210.2	551.6	590.3	0.00	0.00	
2,200.0	22.76	110.86	2,083.5	-224.0	587.8	629.0	0.00	0.00	
2,300.0	22.76	110.86	2,175.7	-237.8	623.9	667.7	0.00	0.00	
2,400.0	22.76	110.86	2,267.9	-251.6	660.1	706.4	0.00	0.00	
2,500.0	22.76	110.86	2,360.2	-265.4	696.2	745.1	0.00	0.00	
2,600.0	22.76	110.86	2,452.4	-279.1	732.4	783.8	0.00	0.00	
2,700.0	22.76	110.86	2,544.6	-292.9	768.6	822.5	0.00	0.00	
2,800.0	22.76	110.86	2,636.8	-306.7	804.7	861.2	0.00	0.00	
2,900.0	22.76	110.86	2,729.0	-320.5	840.9	899.9	0.00	0.00	
3,000.0	22.76	110.86	2,821.2	-334.3	877.0	938.6	0.00	0.00	
3,100.0	22.76	110.86	2,913.4	-348.0	913.2	977.2	0.00	0.00	
3,200.0	22.76	110.86	3,005.6	-361.8	949.3	1,015.9	0.00	0.00	
3,300.0	22.76	110.86	3,097.8	-375.6	985.5	1,054.6	0.00	0.00	
3,400.0	22.76	110.86	3,190.1	-389.4	1,021.6	1,093.3	0.00	0.00	
3,500.0	22.76	110.86	3,282.3	-403.1	1,057.8	1,132.0	0.00	0.00	
3,600.0	22.76	110.86	3,374.5	-416.9	1,094.0	1,170.7	0.00	0.00	
3,700.0	22.76	110.86	3,466.7	-430.7	1,130.1	1,209.4	0.00	0.00	
3,800.0	22.76	110.86	3,558.9	-444.5	1,166.3	1,248.1	0.00	0.00	
3,900.0	22.76	110.86	3,651.1	-458.3	1,202.4	1,286.8	0.00	0.00	
4,000.0	22.76	110.86	3,743.3	-472.0	1,238.6	1,325.5	0.00	0.00	
4,100.0	22.76	110.86	3,835.5	-485.8	1,274.7	1,364.2	0.00	0.00	
4,200.0	22.76	110.86	3,927.7	-499.6	1,310.9	1,402.9	0.00	0.00	
4,300.0	22.76	110.86	4,020.0	-513.4	1,347.0	1,441.6	0.00	0.00	
4,400.0	22.76	110.86	4,112.2	-527.2	1,383.2	1,480.2	0.00	0.00	
4,500.0	22.76	110.86	4,204.4	-540.9	1,419.3	1,518.9	0.00	0.00	
4,600.0	22.76	110.86	4,296.6	-554.7	1,455.5	1,557.6	0.00	0.00	
4,700.0	22.76	110.86	4,388.8	-568.5	1,491.7	1,596.3	0.00	0.00	
4,800.0	22.76	110.86	4,481.0	-582.3	1,527.8	1,635.0	0.00	0.00	
4,900.0	22.76	110.86	4,573.2	-596.1	1,564.0	1,673.7	0.00	0.00	
5,000.0	22.76	110.86	4,665.4	-609.8	1,600.1	1,712.4	0.00	0.00	

# Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 24D-1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8454.0usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8454.0usft
<b>Site:</b>	S2-T7S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 24D-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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	22.76	110.86	4,757.6	-623.6	1,636.3	1,751.1	0.00	0.00	
5,200.0	22.76	110.86	4,849.9	-637.4	1,672.4	1,789.8	0.00	0.00	
5,300.0	22.76	110.86	4,942.1	-651.2	1,708.6	1,828.5	0.00	0.00	
5,400.0	22.76	110.86	5,034.3	-665.0	1,744.7	1,867.2	0.00	0.00	
5,500.0	22.76	110.86	5,126.5	-678.7	1,780.9	1,905.9	0.00	0.00	
5,600.0	22.76	110.86	5,218.7	-692.5	1,817.1	1,944.6	0.00	0.00	
5,700.0	22.76	110.86	5,310.9	-706.3	1,853.2	1,983.2	0.00	0.00	
5,800.0	22.76	110.86	5,403.1	-720.1	1,889.4	2,021.9	0.00	0.00	
5,900.0	22.76	110.86	5,495.3	-733.9	1,925.5	2,060.6	0.00	0.00	
6,000.0	22.76	110.86	5,587.5	-747.6	1,961.7	2,099.3	0.00	0.00	
6,100.0	22.76	110.86	5,679.8	-761.4	1,997.8	2,138.0	0.00	0.00	
6,200.0	22.76	110.86	5,772.0	-775.2	2,034.0	2,176.7	0.00	0.00	
6,249.9	22.76	110.86	5,818.0	-782.1	2,052.0	2,196.0	0.00	0.00	OHIO_CREEK.MBL (SSTVD)
6,300.0	22.76	110.86	5,864.2	-789.0	2,070.1	2,215.4	0.00	0.00	
6,400.0	22.76	110.86	5,956.4	-802.8	2,106.3	2,254.1	0.00	0.00	
6,500.0	22.76	110.86	6,048.6	-816.5	2,142.5	2,292.8	0.00	0.00	
6,528.6	22.76	110.86	6,075.0	-820.5	2,152.8	2,303.9	0.00	0.00	WILLIAMS_FORK.MBL (SSTVD)
6,600.0	22.76	110.86	6,140.8	-830.3	2,178.6	2,331.5	0.00	0.00	
6,672.9	22.76	110.86	6,208.0	-840.4	2,205.0	2,359.7	0.00	0.00	Start Drop -3.00
6,700.0	21.95	110.86	6,233.1	-844.0	2,214.6	2,370.0	3.00	-3.00	
6,800.0	18.95	110.86	6,326.8	-856.5	2,247.2	2,404.9	3.00	-3.00	
6,900.0	15.95	110.86	6,422.2	-867.2	2,275.3	2,434.9	3.00	-3.00	
7,000.0	12.95	110.86	6,519.0	-876.0	2,298.6	2,459.9	3.00	-3.00	
7,100.0	9.95	110.86	6,617.0	-883.1	2,317.1	2,479.7	3.00	-3.00	
7,200.0	6.95	110.86	6,715.9	-888.3	2,330.9	2,494.4	3.00	-3.00	
7,300.0	3.95	110.86	6,815.4	-891.7	2,339.7	2,503.9	3.00	-3.00	
7,400.0	0.95	110.86	6,915.3	-893.2	2,343.7	2,508.2	3.00	-3.00	
7,431.7	0.00	0.00	6,947.0	-893.3	2,344.0	2,508.4	3.00	-3.00	Start 1853.0 hold at 7431.7 MD
7,500.0	0.00	0.00	7,015.3	-893.3	2,344.0	2,508.4	0.00	0.00	
7,531.7	0.00	0.00	7,047.0	-893.3	2,344.0	2,508.4	0.00	0.00	TOP_GAS.MBL (SSTVD)
7,600.0	0.00	0.00	7,115.3	-893.3	2,344.0	2,508.4	0.00	0.00	
7,700.0	0.00	0.00	7,215.3	-893.3	2,344.0	2,508.4	0.00	0.00	
7,800.0	0.00	0.00	7,315.3	-893.3	2,344.0	2,508.4	0.00	0.00	
7,900.0	0.00	0.00	7,415.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,000.0	0.00	0.00	7,515.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,100.0	0.00	0.00	7,615.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,200.0	0.00	0.00	7,715.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,300.0	0.00	0.00	7,815.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,400.0	0.00	0.00	7,915.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,500.0	0.00	0.00	8,015.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,600.0	0.00	0.00	8,115.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,700.0	0.00	0.00	8,215.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,800.0	0.00	0.00	8,315.3	-893.3	2,344.0	2,508.4	0.00	0.00	
8,900.0	0.00	0.00	8,415.3	-893.3	2,344.0	2,508.4	0.00	0.00	
9,000.0	0.00	0.00	8,515.3	-893.3	2,344.0	2,508.4	0.00	0.00	
9,100.0	0.00	0.00	8,615.3	-893.3	2,344.0	2,508.4	0.00	0.00	
9,134.7	0.00	0.00	8,650.0	-893.3	2,344.0	2,508.4	0.00	0.00	ROLLINS.MBL (SSTVD)
9,200.0	0.00	0.00	8,715.3	-893.3	2,344.0	2,508.4	0.00	0.00	
9,284.7	0.00	0.00	8,800.0	-893.3	2,344.0	2,508.4	0.00	0.00	TD at 9284.7 - TD.MBL (SSTVD)

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 24D-1
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8454.0usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8454.0usft
<b>Site:</b>	S2-T7S-R97W	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 24D-1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	PLAN #1		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PUCKETT 24D-1 PBHL	0.00	0.00	8,800.0	-893.3	2,344.0	14,344,819.90	2,439,116.40	39.467843	-108.170163
- plan hits target center									
- Circle (radius 50.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,249.9	5,818.0	OHIO_CREEK.MBL (SSTVD)		0.00		
6,528.6	6,075.0	WILLIAMS_FORK.MBL (SSTVD)		0.00		
7,531.7	7,047.0	TOP_GAS.MBL (SSTVD)		0.00		
9,134.7	8,650.0	ROLLINS.MBL (SSTVD)		0.00		
9,284.7	8,800.0	TD.MBL (SSTVD)		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
200.0	200.0	0.0	0.0	Start Build 3.00	
958.8	939.0	-53.0	139.0	Start 5714.1 hold at 958.8 MD	
6,672.9	6,208.0	-840.4	2,205.0	Start Drop -3.00	
7,431.7	6,947.0	-893.3	2,344.0	Start 1853.0 hold at 7431.7 MD	
9,284.7	8,800.0	-893.3	2,344.0	TD at 9284.7	