



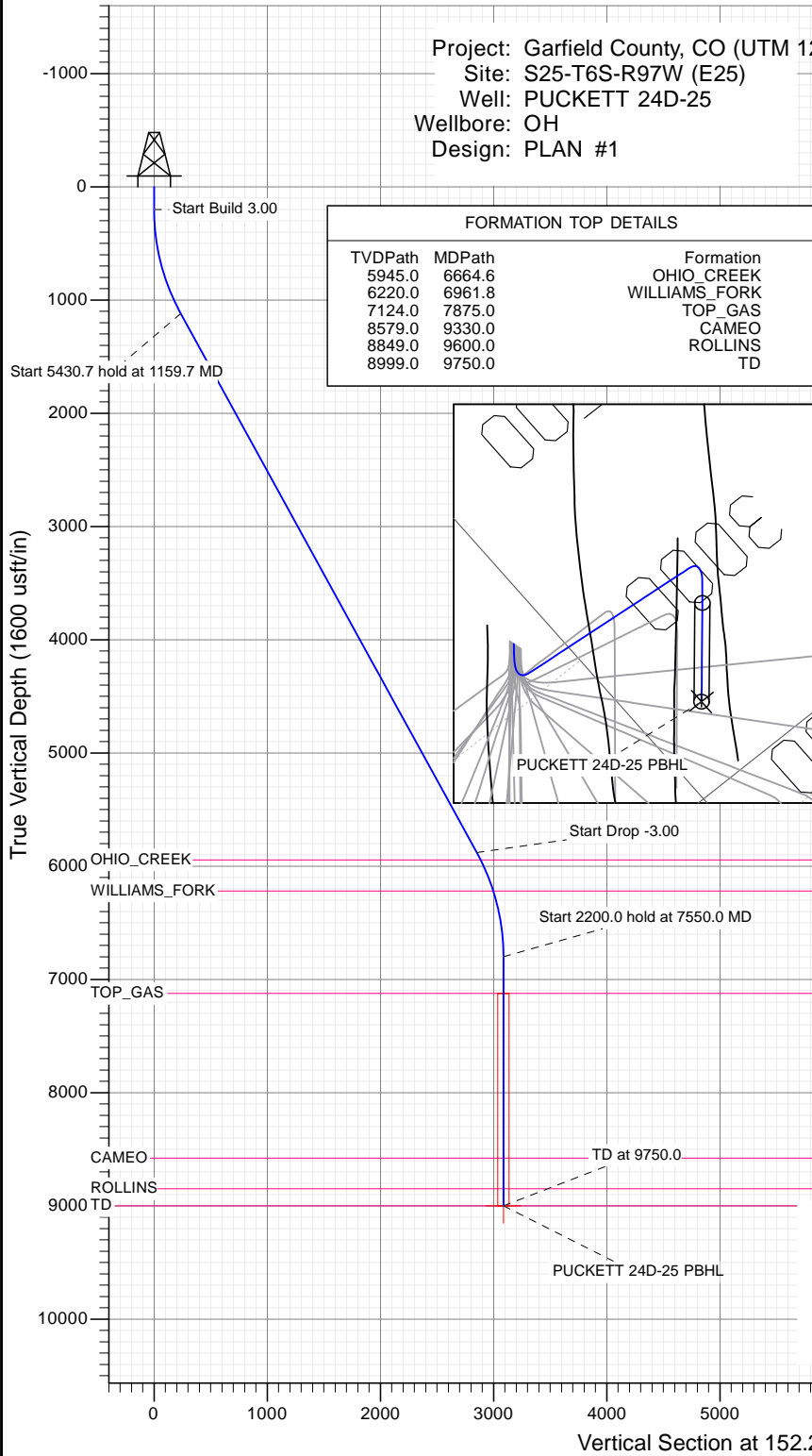
SECTION DETAILS

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	1159.7	28.79	152.20	1119.8	-208.8	110.1	3.00	152.20	236.1	
4	6590.4	28.79	152.20	5879.2	-2522.4	1329.8	0.00	0.00	2851.5	
5	7550.0	0.00	0.00	6799.0	-2731.2	1439.9	3.00	180.00	3087.5	
6	9750.0	0.00	0.00	8999.0	-2731.2	1439.9	0.00	0.00	3087.5	PUCKETT 24D-25 PBHL

Project: Garfield County, CO (UTM 12
 Site: S25-T6S-R97W (E25)
 Well: PUCKETT 24D-25
 Wellbore: OH
 Design: PLAN #1

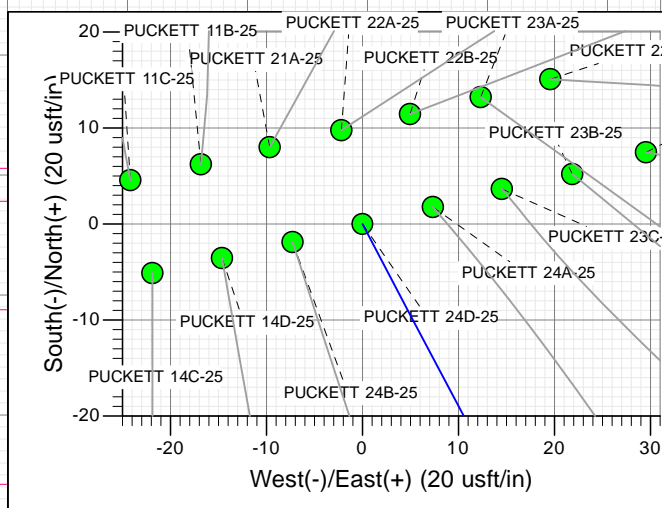
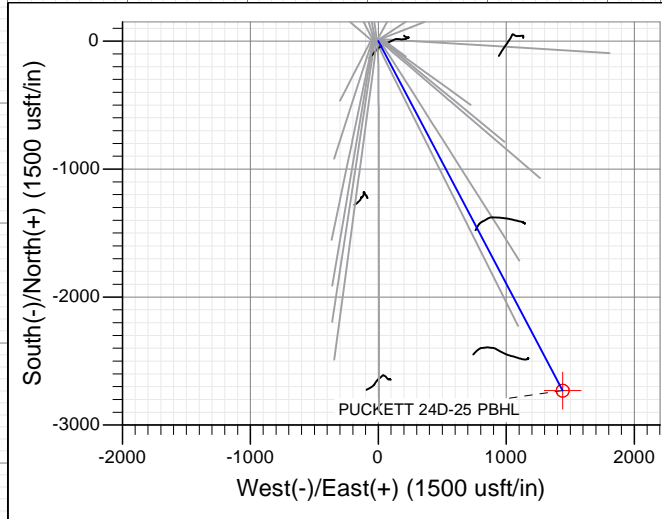
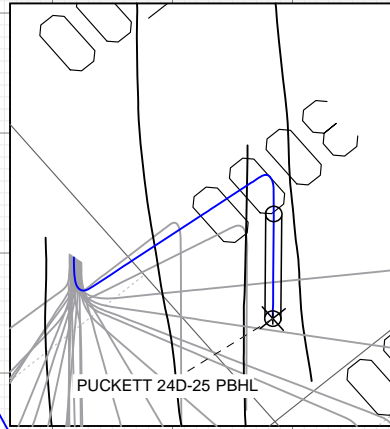
PLAN #1
 PUCKETT 24D-25
 15XXX; LR
 30 KB @ 8406.0usft
 Ground Level @ 8376.0
 NAD 1927 - Western US
 Well PUCKETT 24D-25, True North

Type	Target	Origin	N/S	E/W	From	
TD	No Target (Freehand)	Slot	0.0	0.0	TVD	
Name		TVD	+N/-S	+E/-W	Latitude	Longitude
PUCKETT 24D-25 PBHL		8999.0	-2731.2	1439.9	39.487686	-108.170376



FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
5945.0	6664.6	OHIO_CREEK
6220.0	6961.8	WILLIAMS_FORK
7124.0	7875.0	TOP_GAS
8579.0	9330.0	CAMEO
8849.0	9600.0	ROLLINS
8999.0	9750.0	TD



T M
 Azimuths to True North
 Magnetic North: 9.82°
 Magnetic Field
 Strength: 51888.5snT
 Dip Angle: 65.85°
 Date: 1/7/2016
 Model: HDGM

CASING DETAILS
 No casing data is available



WELL DETAILS: PUCKETT 24D-25

Ground Level: 8376.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14354729.30	2437304.30	39.495182	-108.175476

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 24D-25
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8406.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8406.0usft
Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 24D-25	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	S25-T6S-R97W (E25)				
Site Position:		Northing:	14,354,735.00 usft	Latitude:	39.495199
From:	Map	Easting:	2,437,287.30 usft	Longitude:	-108.175536
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.80 °

Well	PUCKETT 24D-25					
Well Position	+N/-S	0.0 usft	Northing:	14,354,729.30 usft	Latitude:	39.495182
	+E/-W	0.0 usft	Easting:	2,437,304.30 usft	Longitude:	-108.175476
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,376.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	1/7/2016	(°) 9.82	(°) 65.85	(nT) 51,889

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	152.20

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	
1,159.7	28.79	152.20	1,119.8	-208.8	110.1	3.00	3.00	0.00	152.20	
6,590.4	28.79	152.20	5,879.2	-2,522.4	1,329.8	0.00	0.00	0.00	0.00	
7,550.0	0.00	0.00	6,799.0	-2,731.2	1,439.9	3.00	-3.00	0.00	180.00	
9,750.0	0.00	0.00	8,999.0	-2,731.2	1,439.9	0.00	0.00	0.00	0.00	PUCKETT 24D-25 PE

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 24D-25
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8406.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8406.0usft
Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 24D-25	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	152.20	300.0	-2.3	1.2	2.6	3.00	3.00	
400.0	6.00	152.20	399.6	-9.3	4.9	10.5	3.00	3.00	
500.0	9.00	152.20	498.8	-20.8	11.0	23.5	3.00	3.00	
600.0	12.00	152.20	597.1	-36.9	19.5	41.7	3.00	3.00	
700.0	15.00	152.20	694.3	-57.6	30.3	65.1	3.00	3.00	
800.0	18.00	152.20	790.2	-82.7	43.6	93.5	3.00	3.00	
900.0	21.00	152.20	884.4	-112.2	59.2	126.9	3.00	3.00	
1,000.0	24.00	152.20	976.8	-146.1	77.0	165.1	3.00	3.00	
1,100.0	27.00	152.20	1,067.1	-184.1	97.1	208.2	3.00	3.00	
1,159.7	28.79	152.20	1,119.8	-208.8	110.1	236.1	3.00	3.00	Start 5430.7 hold at 1159.7 MD
1,200.0	28.79	152.20	1,155.1	-226.0	119.2	255.5	0.00	0.00	
1,300.0	28.79	152.20	1,242.8	-268.6	141.6	303.7	0.00	0.00	
1,400.0	28.79	152.20	1,330.4	-311.2	164.1	351.8	0.00	0.00	
1,500.0	28.79	152.20	1,418.1	-353.8	186.5	400.0	0.00	0.00	
1,600.0	28.79	152.20	1,505.7	-396.4	209.0	448.1	0.00	0.00	
1,700.0	28.79	152.20	1,593.3	-439.0	231.5	496.3	0.00	0.00	
1,800.0	28.79	152.20	1,681.0	-481.6	253.9	544.5	0.00	0.00	
1,900.0	28.79	152.20	1,768.6	-524.2	276.4	592.6	0.00	0.00	
2,000.0	28.79	152.20	1,856.3	-566.8	298.8	640.8	0.00	0.00	
2,100.0	28.79	152.20	1,943.9	-609.4	321.3	688.9	0.00	0.00	
2,200.0	28.79	152.20	2,031.5	-652.0	343.8	737.1	0.00	0.00	
2,300.0	28.79	152.20	2,119.2	-694.6	366.2	785.3	0.00	0.00	
2,400.0	28.79	152.20	2,206.8	-737.2	388.7	833.4	0.00	0.00	
2,500.0	28.79	152.20	2,294.4	-779.8	411.1	881.6	0.00	0.00	
2,600.0	28.79	152.20	2,382.1	-822.4	433.6	929.7	0.00	0.00	
2,700.0	28.79	152.20	2,469.7	-865.0	456.1	977.9	0.00	0.00	
2,800.0	28.79	152.20	2,557.4	-907.6	478.5	1,026.1	0.00	0.00	
2,900.0	28.79	152.20	2,645.0	-950.2	501.0	1,074.2	0.00	0.00	
3,000.0	28.79	152.20	2,732.6	-992.8	523.4	1,122.4	0.00	0.00	
3,100.0	28.79	152.20	2,820.3	-1,035.4	545.9	1,170.5	0.00	0.00	
3,200.0	28.79	152.20	2,907.9	-1,078.0	568.4	1,218.7	0.00	0.00	
3,300.0	28.79	152.20	2,995.6	-1,120.6	590.8	1,266.9	0.00	0.00	
3,400.0	28.79	152.20	3,083.2	-1,163.2	613.3	1,315.0	0.00	0.00	
3,500.0	28.79	152.20	3,170.8	-1,205.8	635.7	1,363.2	0.00	0.00	
3,600.0	28.79	152.20	3,258.5	-1,248.4	658.2	1,411.3	0.00	0.00	
3,700.0	28.79	152.20	3,346.1	-1,291.0	680.7	1,459.5	0.00	0.00	
3,800.0	28.79	152.20	3,433.8	-1,333.6	703.1	1,507.6	0.00	0.00	
3,900.0	28.79	152.20	3,521.4	-1,376.3	725.6	1,555.8	0.00	0.00	
4,000.0	28.79	152.20	3,609.0	-1,418.9	748.0	1,604.0	0.00	0.00	
4,100.0	28.79	152.20	3,696.7	-1,461.5	770.5	1,652.1	0.00	0.00	
4,200.0	28.79	152.20	3,784.3	-1,504.1	793.0	1,700.3	0.00	0.00	
4,300.0	28.79	152.20	3,872.0	-1,546.7	815.4	1,748.4	0.00	0.00	
4,400.0	28.79	152.20	3,959.6	-1,589.3	837.9	1,796.6	0.00	0.00	
4,500.0	28.79	152.20	4,047.2	-1,631.9	860.3	1,844.8	0.00	0.00	
4,600.0	28.79	152.20	4,134.9	-1,674.5	882.8	1,892.9	0.00	0.00	
4,700.0	28.79	152.20	4,222.5	-1,717.1	905.3	1,941.1	0.00	0.00	
4,800.0	28.79	152.20	4,310.2	-1,759.7	927.7	1,989.2	0.00	0.00	
4,900.0	28.79	152.20	4,397.8	-1,802.3	950.2	2,037.4	0.00	0.00	
5,000.0	28.79	152.20	4,485.4	-1,844.9	972.6	2,085.6	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 24D-25
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8406.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8406.0usft
Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 24D-25	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	28.79	152.20	4,573.1	-1,887.5	995.1	2,133.7	0.00	0.00	
5,200.0	28.79	152.20	4,660.7	-1,930.1	1,017.6	2,181.9	0.00	0.00	
5,300.0	28.79	152.20	4,748.4	-1,972.7	1,040.0	2,230.0	0.00	0.00	
5,400.0	28.79	152.20	4,836.0	-2,015.3	1,062.5	2,278.2	0.00	0.00	
5,500.0	28.79	152.20	4,923.6	-2,057.9	1,084.9	2,326.4	0.00	0.00	
5,600.0	28.79	152.20	5,011.3	-2,100.5	1,107.4	2,374.5	0.00	0.00	
5,700.0	28.79	152.20	5,098.9	-2,143.1	1,129.9	2,422.7	0.00	0.00	
5,800.0	28.79	152.20	5,186.5	-2,185.7	1,152.3	2,470.8	0.00	0.00	
5,900.0	28.79	152.20	5,274.2	-2,228.3	1,174.8	2,519.0	0.00	0.00	
6,000.0	28.79	152.20	5,361.8	-2,270.9	1,197.2	2,567.2	0.00	0.00	
6,100.0	28.79	152.20	5,449.5	-2,313.5	1,219.7	2,615.3	0.00	0.00	
6,200.0	28.79	152.20	5,537.1	-2,356.1	1,242.2	2,663.5	0.00	0.00	
6,300.0	28.79	152.20	5,624.7	-2,398.7	1,264.6	2,711.6	0.00	0.00	
6,400.0	28.79	152.20	5,712.4	-2,441.3	1,287.1	2,759.8	0.00	0.00	
6,500.0	28.79	152.20	5,800.0	-2,483.9	1,309.5	2,808.0	0.00	0.00	
6,590.4	28.79	152.20	5,879.2	-2,522.4	1,329.8	2,851.5	0.00	0.00	Start Drop -3.00
6,600.0	28.50	152.20	5,887.7	-2,526.5	1,332.0	2,856.1	3.00	-3.00	
6,664.6	26.56	152.20	5,945.0	-2,552.9	1,345.9	2,886.0	3.00	-3.00	OHIO_CREEK
6,700.0	25.50	152.20	5,976.8	-2,566.6	1,353.2	2,901.5	3.00	-3.00	
6,800.0	22.50	152.20	6,068.1	-2,602.6	1,372.1	2,942.2	3.00	-3.00	
6,900.0	19.50	152.20	6,161.5	-2,634.3	1,388.8	2,978.0	3.00	-3.00	
6,961.8	17.65	152.20	6,220.0	-2,651.7	1,398.0	2,997.7	3.00	-3.00	WILLIAMS_FORK
7,000.0	16.50	152.20	6,256.6	-2,661.6	1,403.3	3,008.9	3.00	-3.00	
7,100.0	13.50	152.20	6,353.1	-2,684.5	1,415.3	3,034.8	3.00	-3.00	
7,200.0	10.50	152.20	6,450.9	-2,702.9	1,425.0	3,055.6	3.00	-3.00	
7,300.0	7.50	152.20	6,549.7	-2,716.8	1,432.3	3,071.2	3.00	-3.00	
7,400.0	4.50	152.20	6,649.1	-2,726.0	1,437.2	3,081.7	3.00	-3.00	
7,500.0	1.50	152.20	6,749.0	-2,730.6	1,439.6	3,086.9	3.00	-3.00	
7,550.0	0.00	0.00	6,799.0	-2,731.2	1,439.9	3,087.5	3.00	-3.00	Start 2200.0 hold at 7550.0 MD
7,600.0	0.00	0.00	6,849.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
7,700.0	0.00	0.00	6,949.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
7,800.0	0.00	0.00	7,049.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
7,875.0	0.00	0.00	7,124.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	TOP_GAS
7,900.0	0.00	0.00	7,149.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,000.0	0.00	0.00	7,249.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,100.0	0.00	0.00	7,349.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,200.0	0.00	0.00	7,449.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,300.0	0.00	0.00	7,549.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,400.0	0.00	0.00	7,649.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,500.0	0.00	0.00	7,749.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,600.0	0.00	0.00	7,849.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,700.0	0.00	0.00	7,949.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,800.0	0.00	0.00	8,049.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
8,900.0	0.00	0.00	8,149.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,000.0	0.00	0.00	8,249.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,100.0	0.00	0.00	8,349.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,200.0	0.00	0.00	8,449.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,300.0	0.00	0.00	8,549.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,330.0	0.00	0.00	8,579.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	CAMEO
9,400.0	0.00	0.00	8,649.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,500.0	0.00	0.00	8,749.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,600.0	0.00	0.00	8,849.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	ROLLINS

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 24D-25
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8406.0usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8406.0usft
Site:	S25-T6S-R97W (E25)	North Reference:	True
Well:	PUCKETT 24D-25	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
9,700.0	0.00	0.00	8,949.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	
9,750.0	0.00	0.00	8,999.0	-2,731.2	1,439.9	3,087.5	0.00	0.00	TD at 9750.0 - TD

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PUCKETT 24D-25 PBHI - hit/miss target - Shape - plan hits target center - Circle (radius 50.0)	0.00	0.00	8,999.0	-2,731.2	1,439.9	14,352,044.60	2,438,829.20	39.487686	-108.170376

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,664.6	5,945.0	OHIO_CREEK				
6,961.8	6,220.0	WILLIAMS_FORK				
7,875.0	7,124.0	TOP_GAS				
9,330.0	8,579.0	CAMEO				
9,600.0	8,849.0	ROLLINS				
9,750.0	8,999.0	TD				

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	
1,159.7	1,119.8	-208.8	110.1	Start 5430.7 hold at 1159.7 MD	
6,590.4	5,879.2	-2,522.4	1,329.8	Start Drop -3.00	
7,550.0	6,799.0	-2,731.2	1,439.9	Start 2200.0 hold at 7550.0 MD	
9,750.0	8,999.0	-2,731.2	1,439.9	TD at 9750.0	