



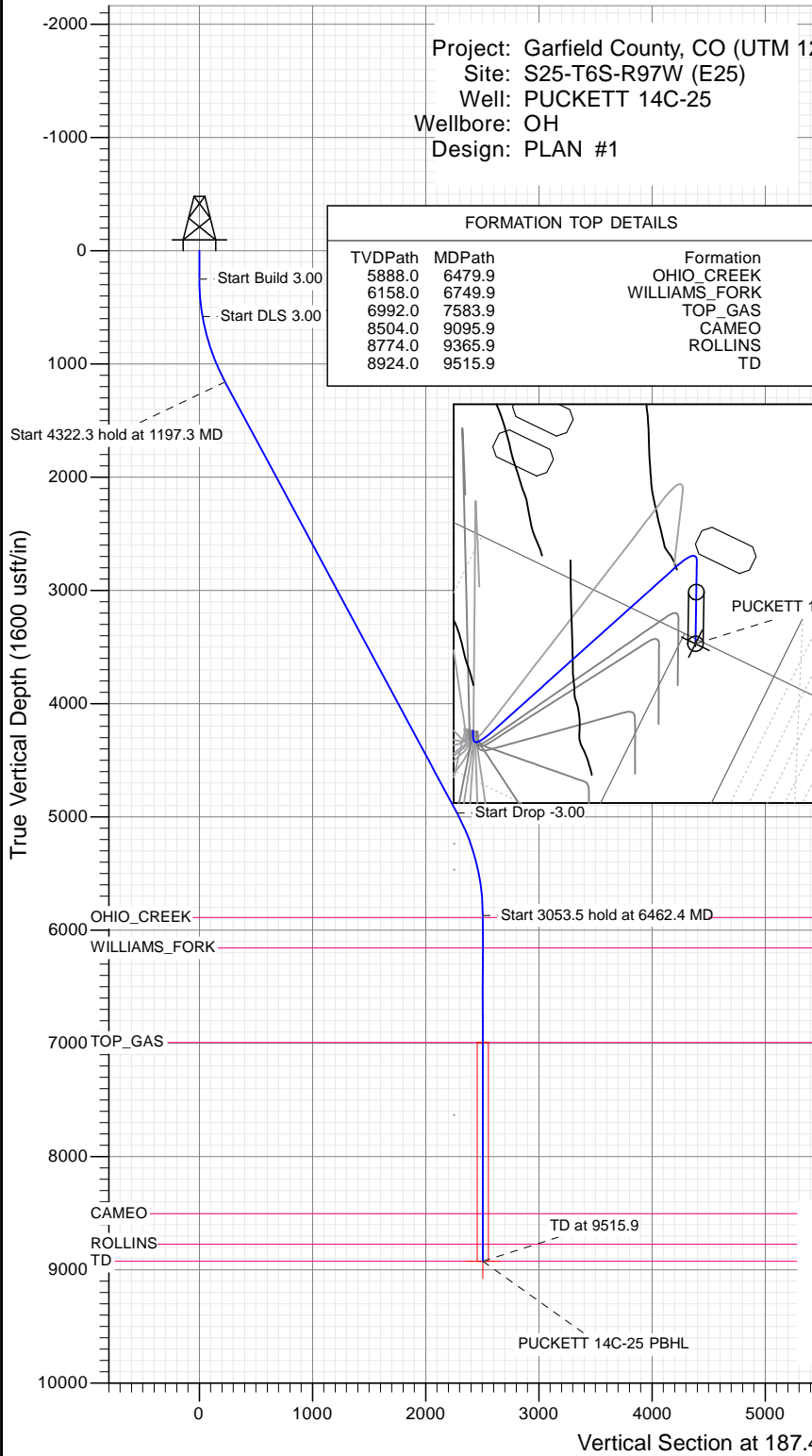
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V Sect	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	583.3	10.00	180.00	581.6	-29.0	0.0	3.00	180.00	28.8	
4	1197.3	28.28	187.66	1159.2	-228.2	-19.6	3.00	11.53	228.8	
5	5519.6	28.28	187.66	4965.5	-2258.0	-292.6	0.00	0.00	2276.9	
6	6462.4	0.00	0.00	5870.5	-2484.0	-323.0	3.00	180.00	2504.9	
7	9515.9	0.00	0.00	8924.0	-2484.0	-323.0	0.00	0.00	2504.9	PUCKETT 14C-25 PBHL

Project: Garfield County, CO (UTM 12
 Site: S25-T6S-R97W (E25)
 Well: PUCKETT 14C-25
 Wellbore: OH
 Design: PLAN #1

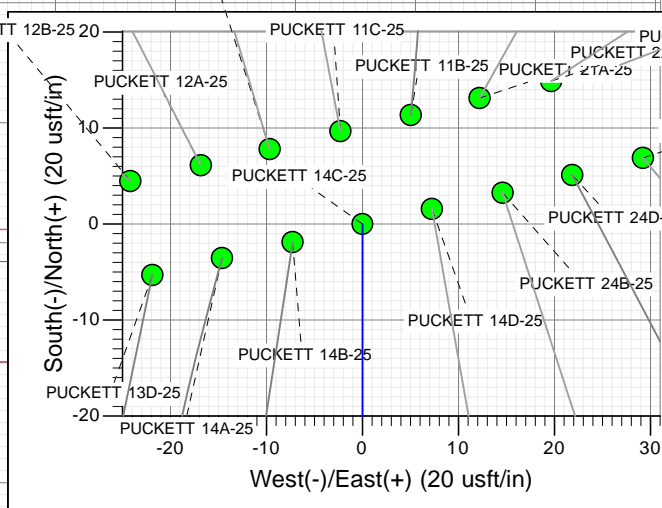
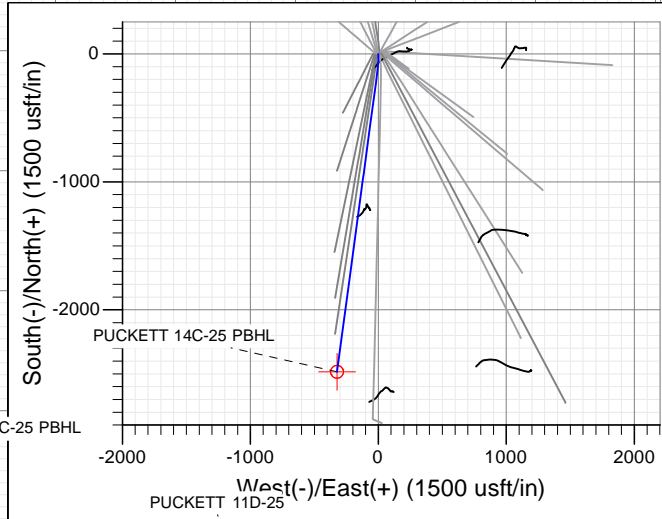
PLAN #1
 PUCKETT 14C-25
 15XXX; LR
 30 KB @ 8406.0usft
 Ground Level @ 8376.0
 NAD 1927 - Western US
 Well PUCKETT 14C-25, True North

Type	Target	Azimuth	Origin	Type	N/S	E/W	From
TD	No Target (Freehand)	187.41	Slot		0.0	0.0	TVD
Name		TVD	+N/-S	+E/-W	Latitude	Longitude	
PUCKETT 14C-25 PBHL		8924.0	-2484.0	-323.0	39.488350	-108.176697	



FORMATION TOP DETAILS

TVDPATH	MDPATH	Formation
5888.0	6479.9	OHIO_CREEK
6158.0	6749.9	WILLIAMS_FORK
6992.0	7583.9	TOP_GAS
8504.0	9095.9	CAMEO
8774.0	9365.9	ROLLINS
8924.0	9515.9	TD



TM

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 14C-25

		Ground Level: 8376.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	14354723.50	2437282.60	39.495168	-108.175554



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 14C-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 14C-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
From:	Map	Easting:	2,437,287.30 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	39.495199
		Longitude:	-108.175536
		Grid Convergence:	1.80 °

Well PUCKETT 14C-25			
Well Position	+N/-S	0.0 usft	Northing: 14,354,723.50 usft
	+E/-W	0.0 usft	Easting: 2,437,282.60 usft
Position Uncertainty		0.0 usft	Wellhead Elevation: 0.0 usft
			Latitude: 39.495168
			Longitude: -108.175554
			Ground Level: 8,376.0 usft

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

Design PLAN #1				
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	187.41

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	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
583.3	10.00	180.00	581.6	-29.0	0.0	3.00	3.00	0.00	180.00	
1,197.3	28.28	187.66	1,159.2	-228.2	-19.6	3.00	2.98	1.25	11.53	
5,519.6	28.28	187.66	4,965.5	-2,258.0	-292.6	0.00	0.00	0.00	0.00	
6,462.4	0.00	0.00	5,870.5	-2,484.0	-323.0	3.00	-3.00	0.00	180.00	
9,515.9	0.00	0.00	8,924.0	-2,484.0	-323.0	0.00	0.00	0.00	0.00	PUCKETT 14C-25 PE

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 14C-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 14C-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	
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	180.00	300.0	-0.7	0.0	0.6	3.00	3.00	
400.0	4.50	180.00	399.8	-5.9	0.0	5.8	3.00	3.00	
500.0	7.50	180.00	499.3	-16.3	0.0	16.2	3.00	3.00	
583.3	10.00	180.00	581.6	-29.0	0.0	28.8	3.00	3.00	Start DLS 3.00 TFO 11.53
600.0	10.49	180.55	598.0	-32.0	0.0	31.7	3.00	2.94	
700.0	13.45	183.01	695.9	-52.7	-0.7	52.4	3.00	2.96	
800.0	16.42	184.59	792.5	-78.4	-2.5	78.1	3.00	2.97	
900.0	19.40	185.70	887.6	-109.0	-5.2	108.8	3.00	2.98	
1,000.0	22.39	186.52	981.0	-144.5	-9.1	144.4	3.00	2.99	
1,100.0	25.38	187.16	1,072.5	-184.7	-13.9	184.9	3.00	2.99	
1,197.3	28.28	187.66	1,159.2	-228.2	-19.6	228.8	3.00	2.99	Start 4322.3 hold at 1197.3 MD
1,200.0	28.28	187.66	1,161.7	-229.5	-19.7	230.1	0.00	0.00	
1,300.0	28.28	187.66	1,249.7	-276.4	-26.0	277.5	0.00	0.00	
1,400.0	28.28	187.66	1,337.8	-323.4	-32.4	324.9	0.00	0.00	
1,500.0	28.28	187.66	1,425.8	-370.4	-38.7	372.3	0.00	0.00	
1,600.0	28.28	187.66	1,513.9	-417.3	-45.0	419.6	0.00	0.00	
1,700.0	28.28	187.66	1,602.0	-464.3	-51.3	467.0	0.00	0.00	
1,800.0	28.28	187.66	1,690.0	-511.2	-57.6	514.4	0.00	0.00	
1,900.0	28.28	187.66	1,778.1	-558.2	-63.9	561.8	0.00	0.00	
2,000.0	28.28	187.66	1,866.1	-605.2	-70.3	609.2	0.00	0.00	
2,100.0	28.28	187.66	1,954.2	-652.1	-76.6	656.6	0.00	0.00	
2,200.0	28.28	187.66	2,042.3	-699.1	-82.9	703.9	0.00	0.00	
2,300.0	28.28	187.66	2,130.3	-746.1	-89.2	751.3	0.00	0.00	
2,400.0	28.28	187.66	2,218.4	-793.0	-95.5	798.7	0.00	0.00	
2,500.0	28.28	187.66	2,306.4	-840.0	-101.8	846.1	0.00	0.00	
2,600.0	28.28	187.66	2,394.5	-886.9	-108.2	893.5	0.00	0.00	
2,700.0	28.28	187.66	2,482.6	-933.9	-114.5	940.9	0.00	0.00	
2,800.0	28.28	187.66	2,570.6	-980.9	-120.8	988.2	0.00	0.00	
2,900.0	28.28	187.66	2,658.7	-1,027.8	-127.1	1,035.6	0.00	0.00	
3,000.0	28.28	187.66	2,746.8	-1,074.8	-133.4	1,083.0	0.00	0.00	
3,100.0	28.28	187.66	2,834.8	-1,121.7	-139.7	1,130.4	0.00	0.00	
3,200.0	28.28	187.66	2,922.9	-1,168.7	-146.1	1,177.8	0.00	0.00	
3,300.0	28.28	187.66	3,010.9	-1,215.7	-152.4	1,225.2	0.00	0.00	
3,400.0	28.28	187.66	3,099.0	-1,262.6	-158.7	1,272.5	0.00	0.00	
3,500.0	28.28	187.66	3,187.1	-1,309.6	-165.0	1,319.9	0.00	0.00	
3,600.0	28.28	187.66	3,275.1	-1,356.5	-171.3	1,367.3	0.00	0.00	
3,700.0	28.28	187.66	3,363.2	-1,403.5	-177.6	1,414.7	0.00	0.00	
3,800.0	28.28	187.66	3,451.2	-1,450.5	-184.0	1,462.1	0.00	0.00	
3,900.0	28.28	187.66	3,539.3	-1,497.4	-190.3	1,509.5	0.00	0.00	
4,000.0	28.28	187.66	3,627.4	-1,544.4	-196.6	1,556.9	0.00	0.00	
4,100.0	28.28	187.66	3,715.4	-1,591.4	-202.9	1,604.2	0.00	0.00	
4,200.0	28.28	187.66	3,803.5	-1,638.3	-209.2	1,651.6	0.00	0.00	
4,300.0	28.28	187.66	3,891.5	-1,685.3	-215.5	1,699.0	0.00	0.00	
4,400.0	28.28	187.66	3,979.6	-1,732.2	-221.9	1,746.4	0.00	0.00	
4,500.0	28.28	187.66	4,067.7	-1,779.2	-228.2	1,793.8	0.00	0.00	
4,600.0	28.28	187.66	4,155.7	-1,826.2	-234.5	1,841.2	0.00	0.00	
4,700.0	28.28	187.66	4,243.8	-1,873.1	-240.8	1,888.5	0.00	0.00	
4,800.0	28.28	187.66	4,331.8	-1,920.1	-247.1	1,935.9	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 14C-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 14C-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
4,900.0	28.28	187.66	4,419.9	-1,967.0	-253.4	1,983.3	0.00	0.00	
5,000.0	28.28	187.66	4,508.0	-2,014.0	-259.8	2,030.7	0.00	0.00	
5,100.0	28.28	187.66	4,596.0	-2,061.0	-266.1	2,078.1	0.00	0.00	
5,200.0	28.28	187.66	4,684.1	-2,107.9	-272.4	2,125.5	0.00	0.00	
5,300.0	28.28	187.66	4,772.2	-2,154.9	-278.7	2,172.8	0.00	0.00	
5,400.0	28.28	187.66	4,860.2	-2,201.9	-285.0	2,220.2	0.00	0.00	
5,500.0	28.28	187.66	4,948.3	-2,248.8	-291.3	2,267.6	0.00	0.00	
5,519.6	28.28	187.66	4,965.5	-2,258.0	-292.6	2,276.9	0.00	0.00	Start Drop -3.00
5,600.0	25.87	187.66	5,037.1	-2,294.3	-297.5	2,313.5	3.00	-3.00	
5,700.0	22.87	187.66	5,128.2	-2,335.2	-303.0	2,354.7	3.00	-3.00	
5,800.0	19.87	187.66	5,221.3	-2,371.3	-307.8	2,391.2	3.00	-3.00	
5,900.0	16.87	187.66	5,316.2	-2,402.5	-312.0	2,422.7	3.00	-3.00	
6,000.0	13.87	187.66	5,412.6	-2,428.8	-315.5	2,449.2	3.00	-3.00	
6,100.0	10.87	187.66	5,510.3	-2,450.0	-318.4	2,470.6	3.00	-3.00	
6,200.0	7.87	187.66	5,608.9	-2,466.2	-320.6	2,486.9	3.00	-3.00	
6,300.0	4.87	187.66	5,708.3	-2,477.2	-322.0	2,498.0	3.00	-3.00	
6,400.0	1.87	187.66	5,808.1	-2,483.0	-322.8	2,503.9	3.00	-3.00	
6,462.4	0.00	0.00	5,870.5	-2,484.0	-323.0	2,504.9	3.00	-3.00	Start 3053.5 hold at 6462.4 MD
6,479.9	0.00	0.00	5,888.0	-2,484.0	-323.0	2,504.9	0.00	0.00	OHIO_CREEK
6,500.0	0.00	0.00	5,908.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
6,600.0	0.00	0.00	6,008.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
6,700.0	0.00	0.00	6,108.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
6,749.9	0.00	0.00	6,158.0	-2,484.0	-323.0	2,504.9	0.00	0.00	WILLIAMS_FORK
6,800.0	0.00	0.00	6,208.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
6,900.0	0.00	0.00	6,308.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,000.0	0.00	0.00	6,408.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,100.0	0.00	0.00	6,508.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,200.0	0.00	0.00	6,608.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,300.0	0.00	0.00	6,708.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,400.0	0.00	0.00	6,808.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,500.0	0.00	0.00	6,908.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,583.9	0.00	0.00	6,992.0	-2,484.0	-323.0	2,504.9	0.00	0.00	TOP_GAS
7,600.0	0.00	0.00	7,008.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,700.0	0.00	0.00	7,108.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,800.0	0.00	0.00	7,208.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
7,900.0	0.00	0.00	7,308.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,000.0	0.00	0.00	7,408.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,100.0	0.00	0.00	7,508.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,200.0	0.00	0.00	7,608.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,300.0	0.00	0.00	7,708.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,400.0	0.00	0.00	7,808.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,500.0	0.00	0.00	7,908.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,600.0	0.00	0.00	8,008.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,700.0	0.00	0.00	8,108.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,800.0	0.00	0.00	8,208.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
8,900.0	0.00	0.00	8,308.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,000.0	0.00	0.00	8,408.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,095.9	0.00	0.00	8,504.0	-2,484.0	-323.0	2,504.9	0.00	0.00	CAMEO
9,100.0	0.00	0.00	8,508.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,200.0	0.00	0.00	8,608.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,300.0	0.00	0.00	8,708.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,365.9	0.00	0.00	8,774.0	-2,484.0	-323.0	2,504.9	0.00	0.00	ROLLINS

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 14C-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 14C-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
9,400.0	0.00	0.00	8,808.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,500.0	0.00	0.00	8,908.1	-2,484.0	-323.0	2,504.9	0.00	0.00	
9,515.9	0.00	0.00	8,924.0	-2,484.0	-323.0	2,504.9	0.00	0.00	TD at 9515.9 - 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
PUCKETT 14C-25 PBHI			0.00	0.00	8,924.0	-2,484.0	-323.0	14,352,230.60	2,437,037.70	39.488350	-108.176697
- plan hits target center - Circle (radius 50.0)											

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,479.9	5,888.0	OHIO_CREEK				
6,749.9	6,158.0	WILLIAMS_FORK				
7,583.9	6,992.0	TOP_GAS				
9,095.9	8,504.0	CAMEO				
9,365.9	8,774.0	ROLLINS				
9,515.9	8,924.0	TD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
250.0	250.0	0.0	0.0	Start Build 3.00	
583.3	581.6	-29.0	0.0	Start DLS 3.00 TFO 11.53	
1,197.3	1,159.2	-228.2	-19.6	Start 4322.3 hold at 1197.3 MD	
5,519.6	4,965.5	-2,258.0	-292.6	Start Drop -3.00	
6,462.4	5,870.5	-2,484.0	-323.0	Start 3053.5 hold at 6462.4 MD	
9,515.9	8,924.0	-2,484.0	-323.0	TD at 9515.9	