

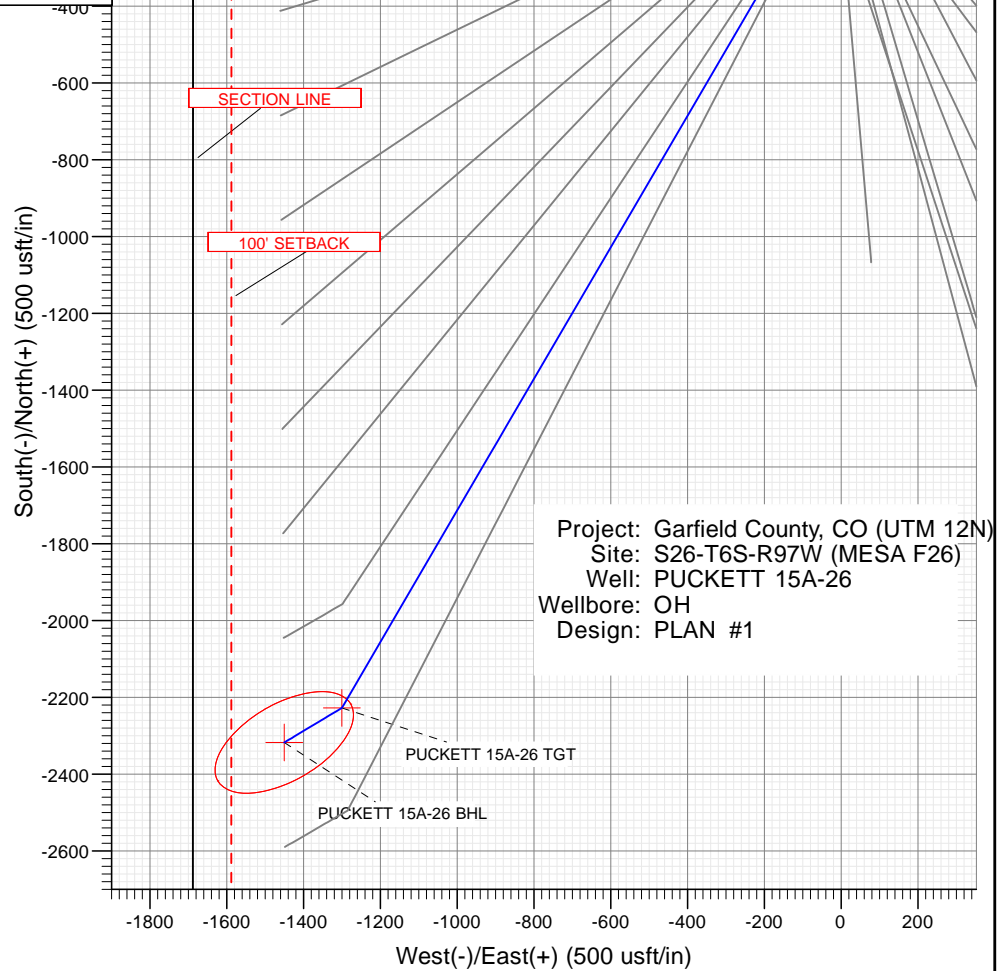
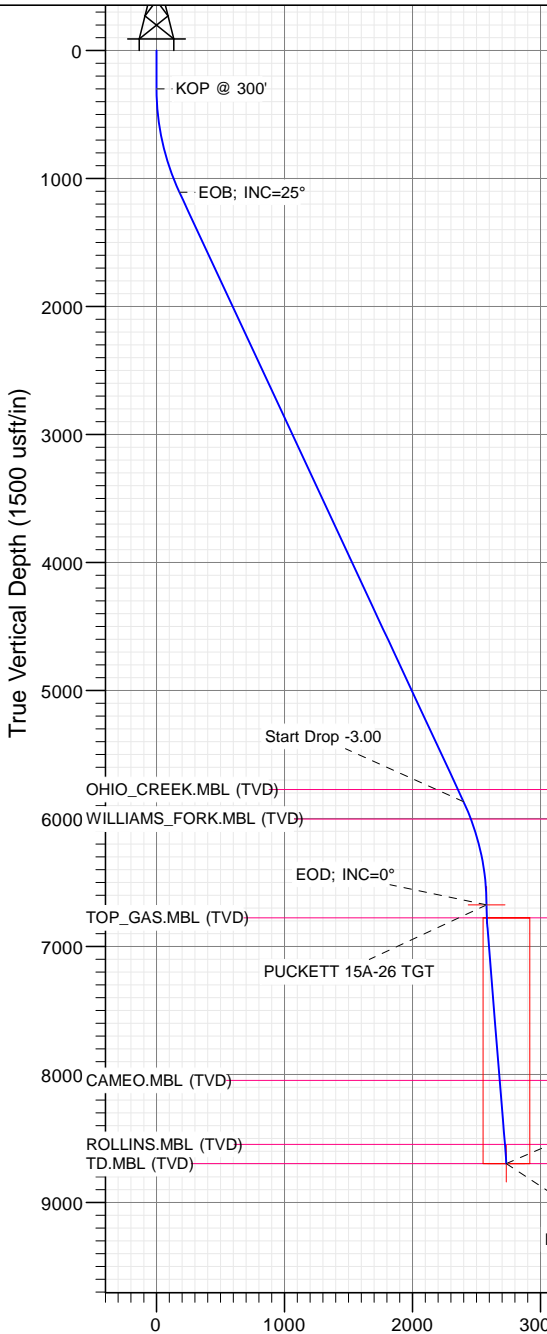


SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1133.63	25.01	210.27	1107.41	-154.65	-90.27	3.00	210.27	178.98	
4	6386.29	25.01	210.27	5867.59	-2072.43	-1209.73	0.00	0.00	2398.53	
5	7219.92	0.00	0.00	6675.00	-2227.08	-1300.00	3.00	180.00	2577.51	PUCKETT 15A-26 TGT
6	7392.21	5.17	239.05	6847.06	-2231.07	-1306.66	3.00	239.05	2584.43	
7	9248.70	5.17	239.05	8696.00	-2317.08	-1450.11	0.00	0.00	2733.44	PUCKETT 15A-26 BHL

PLAN #1
PUCKETT 15A-26
XXX16 LR
30' KS @ 8322.00usft
Ground Level @ 8322.00
NAD 1927 - Western US
Well PUCKETT 15A-26, True North

Type	Target	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD
TD			212.04	Slot	0.00	0.00	0.00
Name	PUCKETT 15A-26 TGT		TVD	+N/-S	+E/-W	Latitude	Longitude
	PUCKETT 15A-26 BHL		6675.00	-2227.08	-1300.00	39.488861	-108.194727
			8696.00	-2317.08	-1450.11	39.488614	-108.195259



Project: Garfield County, CO (UTM 12N)
Site: S26-T6S-R97W (MESA F26)
Well: PUCKETT 15A-26
Wellbore: OH
Design: PLAN #1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5774.00	6283.02	OHIO_CREEK.MBL (TVD)
6005.00	6535.35	WILLIAMS_FORK.MBL (TVD)
6775.00	7319.96	TOP_GAS.MBL (TVD)
8046.00	8596.05	CAMEO.MBL (TVD)
8546.00	9098.09	ROLLINS.MBL (TVD)
8696.00	9248.70	TD.MBL (TVD)



Azimuths to True North
Magnetic North: 9.78°

Magnetic Field
Strength: 51819.5nT
Dip Angle: 65.83°
Date: 9/23/2016
Model: HDGM

Vertical Section at 212.04° (1500 usft/in)

WELL DETAILS: PUCKETT 15A-26

+N/-S	+E/-W	Northing	Ground Level:	8322.00	Latitude	Longitude
0.00	0.00	14354524.20	Easting	2433173.80	39.494974	-108.190123

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 15A-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 15A-26	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		S26-T6S-R97W (MESA F26)			
Site Position:		Northing:	14,354,512.70 usft	Latitude:	39.494943
From:	Map	Easting:	2,433,169.20 usft	Longitude:	-108.190140
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.79 °

Well	PUCKETT 15A-26					
Well Position	+N/-S	0.00 usft	Northing:	14,354,524.20 usft	Latitude:	39.494974
	+E/-W	0.00 usft	Easting:	2,433,173.80 usft	Longitude:	-108.190123
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	8,322.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	9/23/2016	9.78	65.83	51,820

Design	PLAN #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	212.04

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,133.63	25.01	210.27	1,107.41	-154.65	-90.27	3.00	3.00	0.00	210.27	
6,386.29	25.01	210.27	5,867.59	-2,072.43	-1,209.73	0.00	0.00	0.00	0.00	
7,219.92	0.00	0.00	6,675.00	-2,227.08	-1,300.00	3.00	-3.00	0.00	180.00	PUCKETT 15A-26 TC
7,392.21	5.17	239.05	6,847.06	-2,231.07	-1,306.66	3.00	3.00	-70.20	239.05	
9,248.70	5.17	239.05	8,696.00	-2,317.08	-1,450.11	0.00	0.00	0.00	0.00	PUCKETT 15A-26 BH

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 15A-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 15A-26	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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	KOP @ 300'
400.00	3.00	210.27	399.95	-2.26	-1.32	2.62	3.00	3.00	
500.00	6.00	210.27	499.63	-9.04	-5.27	10.46	3.00	3.00	
600.00	9.00	210.27	598.77	-20.31	-11.85	23.50	3.00	3.00	
700.00	12.00	210.27	697.08	-36.04	-21.04	41.72	3.00	3.00	
800.00	15.00	210.27	794.31	-56.20	-32.81	65.05	3.00	3.00	
900.00	18.00	210.27	890.18	-80.73	-47.12	93.43	3.00	3.00	
1,000.00	21.00	210.27	984.43	-109.55	-63.95	126.79	3.00	3.00	
1,100.00	24.00	210.27	1,076.81	-142.60	-83.24	165.04	3.00	3.00	
1,133.63	25.01	210.27	1,107.41	-154.65	-90.27	178.98	3.00	3.00	EOB; INC=25°
1,200.00	25.01	210.27	1,167.56	-178.88	-104.42	207.02	0.00	0.00	
1,300.00	25.01	210.27	1,258.18	-215.39	-125.73	249.28	0.00	0.00	
1,400.00	25.01	210.27	1,348.81	-251.90	-147.04	291.54	0.00	0.00	
1,500.00	25.01	210.27	1,439.43	-288.41	-168.35	333.79	0.00	0.00	
1,600.00	25.01	210.27	1,530.05	-324.92	-189.66	376.05	0.00	0.00	
1,700.00	25.01	210.27	1,620.68	-361.43	-210.98	418.30	0.00	0.00	
1,800.00	25.01	210.27	1,711.30	-397.94	-232.29	460.56	0.00	0.00	
1,900.00	25.01	210.27	1,801.93	-434.45	-253.60	502.82	0.00	0.00	
2,000.00	25.01	210.27	1,892.55	-470.96	-274.91	545.07	0.00	0.00	
2,100.00	25.01	210.27	1,983.18	-507.48	-296.23	587.33	0.00	0.00	
2,200.00	25.01	210.27	2,073.80	-543.99	-317.54	629.58	0.00	0.00	
2,300.00	25.01	210.27	2,164.42	-580.50	-338.85	671.84	0.00	0.00	
2,400.00	25.01	210.27	2,255.05	-617.01	-360.16	714.09	0.00	0.00	
2,500.00	25.01	210.27	2,345.67	-653.52	-381.47	756.35	0.00	0.00	
2,600.00	25.01	210.27	2,436.30	-690.03	-402.79	798.61	0.00	0.00	
2,700.00	25.01	210.27	2,526.92	-726.54	-424.10	840.86	0.00	0.00	
2,800.00	25.01	210.27	2,617.54	-763.05	-445.41	883.12	0.00	0.00	
2,900.00	25.01	210.27	2,708.17	-799.56	-466.72	925.37	0.00	0.00	
3,000.00	25.01	210.27	2,798.79	-836.07	-488.04	967.63	0.00	0.00	
3,100.00	25.01	210.27	2,889.42	-872.58	-509.35	1,009.88	0.00	0.00	
3,200.00	25.01	210.27	2,980.04	-909.09	-530.66	1,052.14	0.00	0.00	
3,300.00	25.01	210.27	3,070.67	-945.61	-551.97	1,094.40	0.00	0.00	
3,400.00	25.01	210.27	3,161.29	-982.12	-573.28	1,136.65	0.00	0.00	
3,500.00	25.01	210.27	3,251.91	-1,018.63	-594.60	1,178.91	0.00	0.00	
3,600.00	25.01	210.27	3,342.54	-1,055.14	-615.91	1,221.16	0.00	0.00	
3,700.00	25.01	210.27	3,433.16	-1,091.65	-637.22	1,263.42	0.00	0.00	
3,800.00	25.01	210.27	3,523.79	-1,128.16	-658.53	1,305.68	0.00	0.00	
3,900.00	25.01	210.27	3,614.41	-1,164.67	-679.85	1,347.93	0.00	0.00	
4,000.00	25.01	210.27	3,705.04	-1,201.18	-701.16	1,390.19	0.00	0.00	
4,100.00	25.01	210.27	3,795.66	-1,237.69	-722.47	1,432.44	0.00	0.00	
4,200.00	25.01	210.27	3,886.28	-1,274.20	-743.78	1,474.70	0.00	0.00	
4,300.00	25.01	210.27	3,976.91	-1,310.71	-765.09	1,516.95	0.00	0.00	
4,400.00	25.01	210.27	4,067.53	-1,347.22	-786.41	1,559.21	0.00	0.00	
4,500.00	25.01	210.27	4,158.16	-1,383.74	-807.72	1,601.47	0.00	0.00	
4,600.00	25.01	210.27	4,248.78	-1,420.25	-829.03	1,643.72	0.00	0.00	
4,700.00	25.01	210.27	4,339.41	-1,456.76	-850.34	1,685.98	0.00	0.00	
4,800.00	25.01	210.27	4,430.03	-1,493.27	-871.66	1,728.23	0.00	0.00	
4,900.00	25.01	210.27	4,520.65	-1,529.78	-892.97	1,770.49	0.00	0.00	
5,000.00	25.01	210.27	4,611.28	-1,566.29	-914.28	1,812.75	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 15A-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 15A-26	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
5,100.00	25.01	210.27	4,701.90	-1,602.80	-935.59	1,855.00	0.00	0.00	
5,200.00	25.01	210.27	4,792.53	-1,639.31	-956.91	1,897.26	0.00	0.00	
5,300.00	25.01	210.27	4,883.15	-1,675.82	-978.22	1,939.51	0.00	0.00	
5,400.00	25.01	210.27	4,973.77	-1,712.33	-999.53	1,981.77	0.00	0.00	
5,500.00	25.01	210.27	5,064.40	-1,748.84	-1,020.84	2,024.02	0.00	0.00	
5,600.00	25.01	210.27	5,155.02	-1,785.35	-1,042.15	2,066.28	0.00	0.00	
5,700.00	25.01	210.27	5,245.65	-1,821.87	-1,063.47	2,108.54	0.00	0.00	
5,800.00	25.01	210.27	5,336.27	-1,858.38	-1,084.78	2,150.79	0.00	0.00	
5,900.00	25.01	210.27	5,426.90	-1,894.89	-1,106.09	2,193.05	0.00	0.00	
6,000.00	25.01	210.27	5,517.52	-1,931.40	-1,127.40	2,235.30	0.00	0.00	
6,100.00	25.01	210.27	5,608.14	-1,967.91	-1,148.72	2,277.56	0.00	0.00	
6,200.00	25.01	210.27	5,698.77	-2,004.42	-1,170.03	2,319.82	0.00	0.00	
6,283.02	25.01	210.27	5,774.00	-2,034.73	-1,187.72	2,354.89	0.00	0.00	OHIO_CREEK.MBL (TVD)
6,300.00	25.01	210.27	5,789.39	-2,040.93	-1,191.34	2,362.07	0.00	0.00	
6,386.29	25.01	210.27	5,867.59	-2,072.43	-1,209.73	2,398.53	0.00	0.00	Start Drop -3.00
6,400.00	24.60	210.27	5,880.04	-2,077.40	-1,212.63	2,404.28	3.00	-3.00	
6,500.00	21.60	210.27	5,972.01	-2,111.28	-1,232.40	2,443.49	3.00	-3.00	
6,535.35	20.54	210.27	6,005.00	-2,122.25	-1,238.81	2,456.19	3.00	-3.00	WILLIAMS_FORK.MBL (TVD)
6,600.00	18.60	210.27	6,065.91	-2,140.95	-1,249.72	2,477.83	3.00	-3.00	
6,700.00	15.60	210.27	6,161.48	-2,166.34	-1,264.54	2,507.21	3.00	-3.00	
6,800.00	12.60	210.27	6,258.46	-2,187.37	-1,276.82	2,531.56	3.00	-3.00	
6,900.00	9.60	210.27	6,356.58	-2,203.99	-1,286.52	2,550.79	3.00	-3.00	
7,000.00	6.60	210.27	6,455.57	-2,216.16	-1,293.62	2,564.87	3.00	-3.00	
7,100.00	3.60	210.27	6,555.16	-2,223.83	-1,298.10	2,573.75	3.00	-3.00	
7,200.00	0.60	210.27	6,655.08	-2,226.99	-1,299.95	2,577.41	3.00	-3.00	
7,219.92	0.00	0.00	6,675.00	-2,227.08	-1,300.00	2,577.51	3.00	-3.00	EOD; INC=0°
7,300.00	2.40	239.05	6,755.06	-2,227.94	-1,301.44	2,579.01	3.00	3.00	
7,319.96	3.00	239.05	6,775.00	-2,228.43	-1,302.25	2,579.85	3.00	3.00	TOP_GAS.MBL (TVD)
7,392.21	5.17	239.05	6,847.06	-2,231.07	-1,306.66	2,584.43	3.00	3.00	
7,400.00	5.17	239.05	6,854.82	-2,231.43	-1,307.26	2,585.06	0.00	0.00	
7,500.00	5.17	239.05	6,954.41	-2,236.07	-1,314.99	2,593.08	0.00	0.00	
7,600.00	5.17	239.05	7,054.00	-2,240.70	-1,322.72	2,601.11	0.00	0.00	
7,700.00	5.17	239.05	7,153.60	-2,245.33	-1,330.44	2,609.13	0.00	0.00	
7,800.00	5.17	239.05	7,253.19	-2,249.97	-1,338.17	2,617.16	0.00	0.00	
7,900.00	5.17	239.05	7,352.78	-2,254.60	-1,345.90	2,625.19	0.00	0.00	
8,000.00	5.17	239.05	7,452.38	-2,259.23	-1,353.62	2,633.21	0.00	0.00	
8,100.00	5.17	239.05	7,551.97	-2,263.86	-1,361.35	2,641.24	0.00	0.00	
8,200.00	5.17	239.05	7,651.56	-2,268.50	-1,369.08	2,649.27	0.00	0.00	
8,300.00	5.17	239.05	7,751.16	-2,273.13	-1,376.80	2,657.29	0.00	0.00	
8,400.00	5.17	239.05	7,850.75	-2,277.76	-1,384.53	2,665.32	0.00	0.00	
8,500.00	5.17	239.05	7,950.34	-2,282.40	-1,392.26	2,673.34	0.00	0.00	
8,596.05	5.17	239.05	8,046.00	-2,286.84	-1,399.68	2,681.05	0.00	0.00	CAMEO.MBL (TVD)
8,600.00	5.17	239.05	8,049.94	-2,287.03	-1,399.98	2,681.37	0.00	0.00	
8,700.00	5.17	239.05	8,149.53	-2,291.66	-1,407.71	2,689.40	0.00	0.00	
8,800.00	5.17	239.05	8,249.12	-2,296.29	-1,415.44	2,697.42	0.00	0.00	
8,900.00	5.17	239.05	8,348.72	-2,300.93	-1,423.16	2,705.45	0.00	0.00	
9,000.00	5.17	239.05	8,448.31	-2,305.56	-1,430.89	2,713.47	0.00	0.00	
9,098.09	5.17	239.05	8,546.00	-2,310.10	-1,438.47	2,721.35	0.00	0.00	ROLLINS.MBL (TVD)
9,100.00	5.17	239.05	8,547.90	-2,310.19	-1,438.62	2,721.50	0.00	0.00	
9,200.00	5.17	239.05	8,647.50	-2,314.82	-1,446.34	2,729.53	0.00	0.00	
9,248.70	5.17	239.05	8,696.00	-2,317.08	-1,450.11	2,733.44	0.00	0.00	TD at 9248.70

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 15A-26
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8352.00usft
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	North Reference:	True
Well:	PUCKETT 15A-26	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PUCKETT 15A-26 TGT	0.00	0.00	6,675.00	-2,227.08	-1,300.00	14,352,257.64	2,431,943.92	39.488861	-108.194727
- plan hits target center									
- Point									
PUCKETT 15A-26 BHL	0.00	0.00	8,696.00	-2,317.08	-1,450.11	14,352,163.00	2,431,796.70	39.488614	-108.195259
- plan hits target center									
- Ellipse (radii L200.00 W100.00 on 240.00 azi)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,283.02	5,774.00	OHIO_CREEK.MBL (TVD)				
6,535.35	6,005.00	WILLIAMS_FORK.MBL (TVD)				
7,319.96	6,775.00	TOP_GAS.MBL (TVD)				
8,596.05	8,046.00	CAMEO.MBL (TVD)				
9,098.09	8,546.00	ROLLINS.MBL (TVD)				
9,248.70	8,696.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
300.00	300.00	0.00	0.00	KOP @ 300'	
1,133.63	1,107.41	-154.65	-90.27	EOB; INC=25°	
6,386.29	5,867.59	-2,072.43	-1,209.73	Start Drop -3.00	
7,219.92	6,675.00	-2,227.08	-1,300.00	EOD; INC=0°	
9,248.70	8,696.00	-2,231.07	-1,306.66	TD at 9248.70	