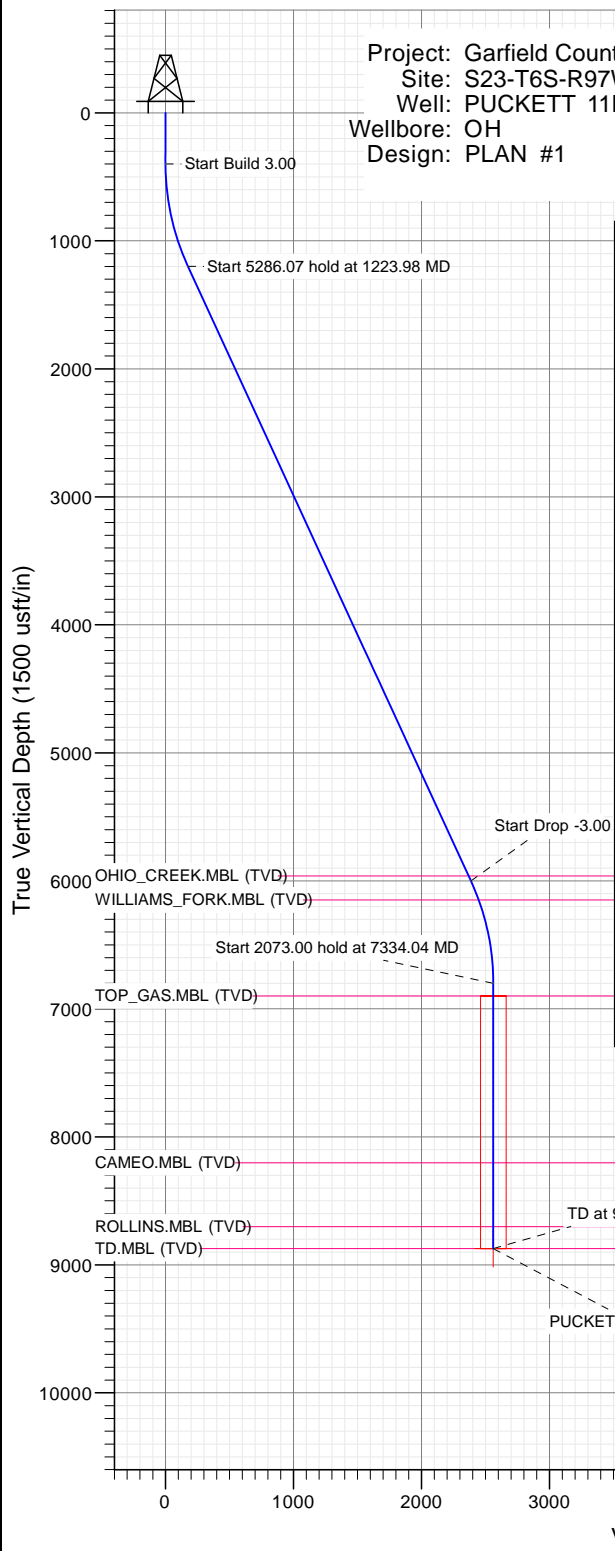


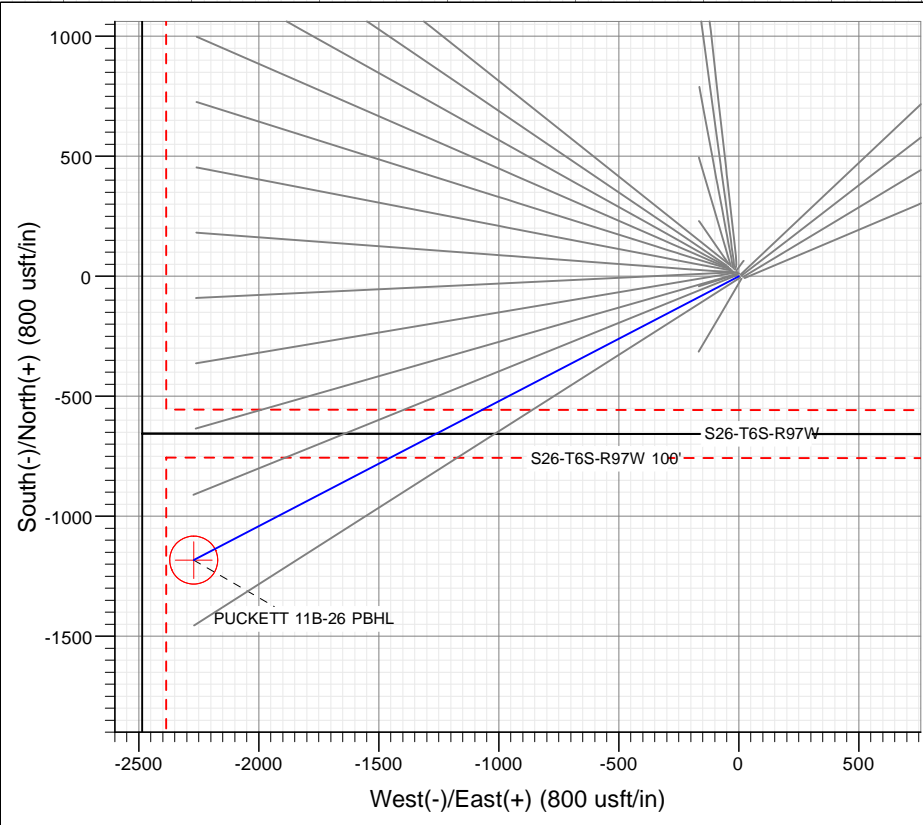


# SECTION DETAILS

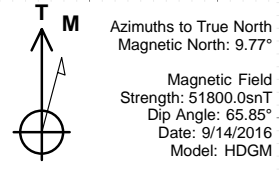
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	1223.98	24.72	242.49	1198.66	-80.83	-155.22	3.00	242.49	175.01	
4	6510.05	24.72	242.49	6000.34	-1101.80	-2115.83	0.00	0.00	2385.52	
5	7334.04	0.00	0.00	6799.00	-1182.63	-2271.05	3.00	180.00	2560.53	
6	9407.04	0.00	0.00	8872.00	-1182.63	-2271.05	0.00	0.00	2560.53	PUCKETT 11B-26 PBHL



PLAN #1 PUCKETT 11B-26 16XXX LR 30' KB @ 8462.00usft Ground Level @ 8432.00 NAD 1927 - Western US Well PUCKETT 11B-26, True North						
Type TD	Target No Target (Freehand)	Azimuth 242.49	Origin Type Slot	N/S 0.00	E/W 0.00	From TVD 0.00
Name PUCKETT 11B-26 PBHL		TVD 8872.00	+N/-S -1182.63	+E/-W -2271.05	Latitude 39.499819	Longitude -108.195339



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
5961.00	6466.74	OHIO_CREEK.MBL (TVD)
6149.00	6670.78	WILLIAMS_FORK.MBL (TVD)
6899.00	7434.04	TOP_GAS.MBL (TVD)
8202.00	8737.04	CAMEO.MBL (TVD)
8702.00	9237.04	ROLLINS.MBL (TVD)
8872.00	9407.04	TD.MBL (TVD)



WELL DETAILS: PUCKETT 11B-26

+N/-S	+E/-W	Northing	Ground Level:	8432.00	Latitude	Longitude
0.00	0.00	14357496.00	Easting	2433880.00	39.503065	-108.187294

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 11B-26
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8462.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8462.00usft
<b>Site:</b>	S23-T6S-R97W (MESA N23)	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 11B-26	<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		S23-T6S-R97W (MESA N23)			
Site Position:		Northing:	14,357,518.00 usft	Latitude:	39.503127
From:	Map	Easting:	2,433,869.00 usft	Longitude:	-108.187330
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	1.79 °

Well	PUCKETT 11B-26					
Well Position	+N/-S	0.00 usft	Northing:	14,357,496.00 usft	Latitude:	39.503065
	+E/-W	0.00 usft	Easting:	2,433,880.00 usft	Longitude:	-108.187294
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	8,432.00 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 (nT)</b>
	HDGM	9/14/2016	9.77	65.85	51,800

<b>Design</b>	PLAN #1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	242.49	

<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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,223.98	24.72	242.49	1,198.66	-80.83	-155.22	3.00	3.00	0.00	242.49	
6,510.05	24.72	242.49	6,000.34	-1,101.80	-2,115.83	0.00	0.00	0.00	0.00	
7,334.04	0.00	0.00	6,799.00	-1,182.63	-2,271.05	3.00	-3.00	0.00	180.00	
9,407.04	0.00	0.00	8,872.00	-1,182.63	-2,271.05	0.00	0.00	0.00	0.00	PUCKETT 11B-26 PB

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 11B-26
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8462.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8462.00usft
<b>Site:</b>	S23-T6S-R97W (MESA N23)	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 11B-26	<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
0.00	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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.00
500.00	3.00	242.49	499.95	-1.21	-2.32	2.62	3.00	3.00	
600.00	6.00	242.49	599.63	-4.83	-9.28	10.46	3.00	3.00	
700.00	9.00	242.49	698.77	-10.86	-20.86	23.51	3.00	3.00	
800.00	12.00	242.49	797.08	-19.28	-37.02	41.74	3.00	3.00	
900.00	15.00	242.49	894.31	-30.06	-57.72	65.08	3.00	3.00	
1,000.00	18.00	242.49	990.18	-43.17	-82.91	93.48	3.00	3.00	
1,100.00	21.00	242.49	1,084.43	-58.59	-112.51	126.85	3.00	3.00	
1,200.00	24.00	242.49	1,176.81	-76.26	-146.45	165.12	3.00	3.00	
1,223.98	24.72	242.49	1,198.66	-80.83	-155.22	175.01	3.00	3.00	Start 5286.07 hold at 1223.98 MD
1,300.00	24.72	242.49	1,267.71	-95.51	-183.42	206.80	0.00	0.00	
1,400.00	24.72	242.49	1,358.55	-114.83	-220.51	248.61	0.00	0.00	
1,500.00	24.72	242.49	1,449.38	-134.14	-257.60	290.43	0.00	0.00	
1,600.00	24.72	242.49	1,540.22	-153.46	-294.69	332.25	0.00	0.00	
1,700.00	24.72	242.49	1,631.06	-172.77	-331.78	374.07	0.00	0.00	
1,800.00	24.72	242.49	1,721.89	-192.08	-368.87	415.88	0.00	0.00	
1,900.00	24.72	242.49	1,812.73	-211.40	-405.96	457.70	0.00	0.00	
2,000.00	24.72	242.49	1,903.56	-230.71	-443.05	499.52	0.00	0.00	
2,100.00	24.72	242.49	1,994.40	-250.03	-480.14	541.34	0.00	0.00	
2,200.00	24.72	242.49	2,085.24	-269.34	-517.23	583.16	0.00	0.00	
2,300.00	24.72	242.49	2,176.07	-288.66	-554.32	624.97	0.00	0.00	
2,400.00	24.72	242.49	2,266.91	-307.97	-591.41	666.79	0.00	0.00	
2,500.00	24.72	242.49	2,357.75	-327.28	-628.50	708.61	0.00	0.00	
2,600.00	24.72	242.49	2,448.58	-346.60	-665.59	750.43	0.00	0.00	
2,700.00	24.72	242.49	2,539.42	-365.91	-702.68	792.24	0.00	0.00	
2,800.00	24.72	242.49	2,630.26	-385.23	-739.77	834.06	0.00	0.00	
2,900.00	24.72	242.49	2,721.09	-404.54	-776.86	875.88	0.00	0.00	
3,000.00	24.72	242.49	2,811.93	-423.86	-813.95	917.70	0.00	0.00	
3,100.00	24.72	242.49	2,902.77	-443.17	-851.04	959.51	0.00	0.00	
3,200.00	24.72	242.49	2,993.60	-462.49	-888.13	1,001.33	0.00	0.00	
3,300.00	24.72	242.49	3,084.44	-481.80	-925.22	1,043.15	0.00	0.00	
3,400.00	24.72	242.49	3,175.28	-501.11	-962.31	1,084.97	0.00	0.00	
3,500.00	24.72	242.49	3,266.11	-520.43	-999.40	1,126.79	0.00	0.00	
3,600.00	24.72	242.49	3,356.95	-539.74	-1,036.49	1,168.60	0.00	0.00	
3,700.00	24.72	242.49	3,447.79	-559.06	-1,073.58	1,210.42	0.00	0.00	
3,800.00	24.72	242.49	3,538.62	-578.37	-1,110.67	1,252.24	0.00	0.00	
3,900.00	24.72	242.49	3,629.46	-597.69	-1,147.76	1,294.06	0.00	0.00	
4,000.00	24.72	242.49	3,720.30	-617.00	-1,184.85	1,335.87	0.00	0.00	
4,100.00	24.72	242.49	3,811.13	-636.31	-1,221.94	1,377.69	0.00	0.00	
4,200.00	24.72	242.49	3,901.97	-655.63	-1,259.03	1,419.51	0.00	0.00	
4,300.00	24.72	242.49	3,992.81	-674.94	-1,296.12	1,461.33	0.00	0.00	
4,400.00	24.72	242.49	4,083.64	-694.26	-1,333.21	1,503.14	0.00	0.00	
4,500.00	24.72	242.49	4,174.48	-713.57	-1,370.30	1,544.96	0.00	0.00	
4,600.00	24.72	242.49	4,265.32	-732.89	-1,407.39	1,586.78	0.00	0.00	
4,700.00	24.72	242.49	4,356.15	-752.20	-1,444.48	1,628.60	0.00	0.00	
4,800.00	24.72	242.49	4,446.99	-771.51	-1,481.57	1,670.41	0.00	0.00	
4,900.00	24.72	242.49	4,537.83	-790.83	-1,518.66	1,712.23	0.00	0.00	
5,000.00	24.72	242.49	4,628.66	-810.14	-1,555.75	1,754.05	0.00	0.00	

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 11B-26
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8462.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8462.00usft
<b>Site:</b>	S23-T6S-R97W (MESA N23)	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 11B-26	<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
5,100.00	24.72	242.49	4,719.50	-829.46	-1,592.84	1,795.87	0.00	0.00	
5,200.00	24.72	242.49	4,810.34	-848.77	-1,629.93	1,837.69	0.00	0.00	
5,300.00	24.72	242.49	4,901.17	-868.09	-1,667.02	1,879.50	0.00	0.00	
5,400.00	24.72	242.49	4,992.01	-887.40	-1,704.11	1,921.32	0.00	0.00	
5,500.00	24.72	242.49	5,082.84	-906.71	-1,741.20	1,963.14	0.00	0.00	
5,600.00	24.72	242.49	5,173.68	-926.03	-1,778.29	2,004.96	0.00	0.00	
5,700.00	24.72	242.49	5,264.52	-945.34	-1,815.38	2,046.77	0.00	0.00	
5,800.00	24.72	242.49	5,355.35	-964.66	-1,852.47	2,088.59	0.00	0.00	
5,900.00	24.72	242.49	5,446.19	-983.97	-1,889.56	2,130.41	0.00	0.00	
6,000.00	24.72	242.49	5,537.03	-1,003.29	-1,926.65	2,172.23	0.00	0.00	
6,100.00	24.72	242.49	5,627.86	-1,022.60	-1,963.74	2,214.04	0.00	0.00	
6,200.00	24.72	242.49	5,718.70	-1,041.91	-2,000.83	2,255.86	0.00	0.00	
6,300.00	24.72	242.49	5,809.54	-1,061.23	-2,037.92	2,297.68	0.00	0.00	
6,400.00	24.72	242.49	5,900.37	-1,080.54	-2,075.01	2,339.50	0.00	0.00	
6,466.74	24.72	242.49	5,961.00	-1,093.43	-2,099.77	2,367.41	0.00	0.00	OHIO_CREEK.MBL (TVD)
6,500.00	24.72	242.49	5,991.21	-1,099.86	-2,112.10	2,381.31	0.00	0.00	
6,510.05	24.72	242.49	6,000.34	-1,101.80	-2,115.83	2,385.52	0.00	0.00	Start Drop -3.00
6,600.00	22.02	242.49	6,082.90	-1,118.28	-2,147.47	2,421.19	3.00	-3.00	
6,670.78	19.90	242.49	6,149.00	-1,129.97	-2,169.93	2,446.51	3.00	-3.00	WILLIAMS_FORK.MBL (TVD)
6,700.00	19.02	242.49	6,176.55	-1,134.47	-2,178.56	2,456.25	3.00	-3.00	
6,800.00	16.02	242.49	6,271.90	-1,148.37	-2,205.26	2,486.35	3.00	-3.00	
6,900.00	13.02	242.49	6,368.69	-1,159.95	-2,227.50	2,511.42	3.00	-3.00	
7,000.00	10.02	242.49	6,466.66	-1,169.17	-2,245.21	2,531.39	3.00	-3.00	
7,100.00	7.02	242.49	6,565.55	-1,176.02	-2,258.35	2,546.21	3.00	-3.00	
7,200.00	4.02	242.49	6,665.07	-1,180.46	-2,266.88	2,555.83	3.00	-3.00	
7,300.00	1.02	242.49	6,764.97	-1,182.49	-2,270.78	2,560.22	3.00	-3.00	
7,334.04	0.00	0.00	6,799.00	-1,182.63	-2,271.05	2,560.53	3.00	-3.00	Start 2073.00 hold at 7334.04 MD
7,400.00	0.00	0.00	6,864.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
7,434.04	0.00	0.00	6,899.00	-1,182.63	-2,271.05	2,560.53	0.00	0.00	TOP_GAS.MBL (TVD)
7,500.00	0.00	0.00	6,964.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
7,600.00	0.00	0.00	7,064.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
7,700.00	0.00	0.00	7,164.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
7,800.00	0.00	0.00	7,264.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
7,900.00	0.00	0.00	7,364.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,000.00	0.00	0.00	7,464.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,100.00	0.00	0.00	7,564.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,200.00	0.00	0.00	7,664.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,300.00	0.00	0.00	7,764.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,400.00	0.00	0.00	7,864.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,500.00	0.00	0.00	7,964.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,600.00	0.00	0.00	8,064.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,700.00	0.00	0.00	8,164.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,737.04	0.00	0.00	8,202.00	-1,182.63	-2,271.05	2,560.53	0.00	0.00	CAMEO.MBL (TVD)
8,800.00	0.00	0.00	8,264.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
8,900.00	0.00	0.00	8,364.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
9,000.00	0.00	0.00	8,464.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
9,100.00	0.00	0.00	8,564.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
9,200.00	0.00	0.00	8,664.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
9,237.04	0.00	0.00	8,702.00	-1,182.63	-2,271.05	2,560.53	0.00	0.00	ROLLINS.MBL (TVD)
9,300.00	0.00	0.00	8,764.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
9,400.00	0.00	0.00	8,864.96	-1,182.63	-2,271.05	2,560.53	0.00	0.00	
9,407.04	0.00	0.00	8,872.00	-1,182.63	-2,271.05	2,560.53	0.00	0.00	TD at 9407.04 - TD.MBL (TVD)

# Cathedral Energy Services

## Planning Report

<b>Database:</b>	USA EDM 5000 Multi Users DB	<b>Local Co-ordinate Reference:</b>	Well PUCKETT 11B-26
<b>Company:</b>	Caerus Oil & Gas	<b>TVD Reference:</b>	30' KB @ 8462.00usft
<b>Project:</b>	Garfield County, CO (UTM 12N)	<b>MD Reference:</b>	30' KB @ 8462.00usft
<b>Site:</b>	S23-T6S-R97W (MESA N23)	<b>North Reference:</b>	True
<b>Well:</b>	PUCKETT 11B-26	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OH		
<b>Design:</b>	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 11B-26 PBHL	0.00	0.00	8,872.00	-1,182.63	-2,271.05	14,356,243.00	2,431,647.00	39.499819	-108.195339
- plan hits target center									
- Circle (radius 100.00)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,466.74	5,961.00	OHIO_CREEK.MBL (TVD)				
6,670.78	6,149.00	WILLIAMS_FORK.MBL (TVD)				
7,434.04	6,899.00	TOP_GAS.MBL (TVD)				
8,737.04	8,202.00	CAMEO.MBL (TVD)				
9,237.04	8,702.00	ROLLINS.MBL (TVD)				
9,407.04	8,872.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
400.00	400.00	0.00	0.00	Start Build 3.00	
1,223.98	1,198.66	-80.83	-155.22	Start 5286.07 hold at 1223.98 MD	
6,510.05	6,000.34	-1,101.80	-2,115.83	Start Drop -3.00	
7,334.04	6,799.00	-1,182.63	-2,271.05	Start 2073.00 hold at 7334.04 MD	
9,407.04	8,872.00	-1,182.63	-2,271.05	TD at 9407.04	