

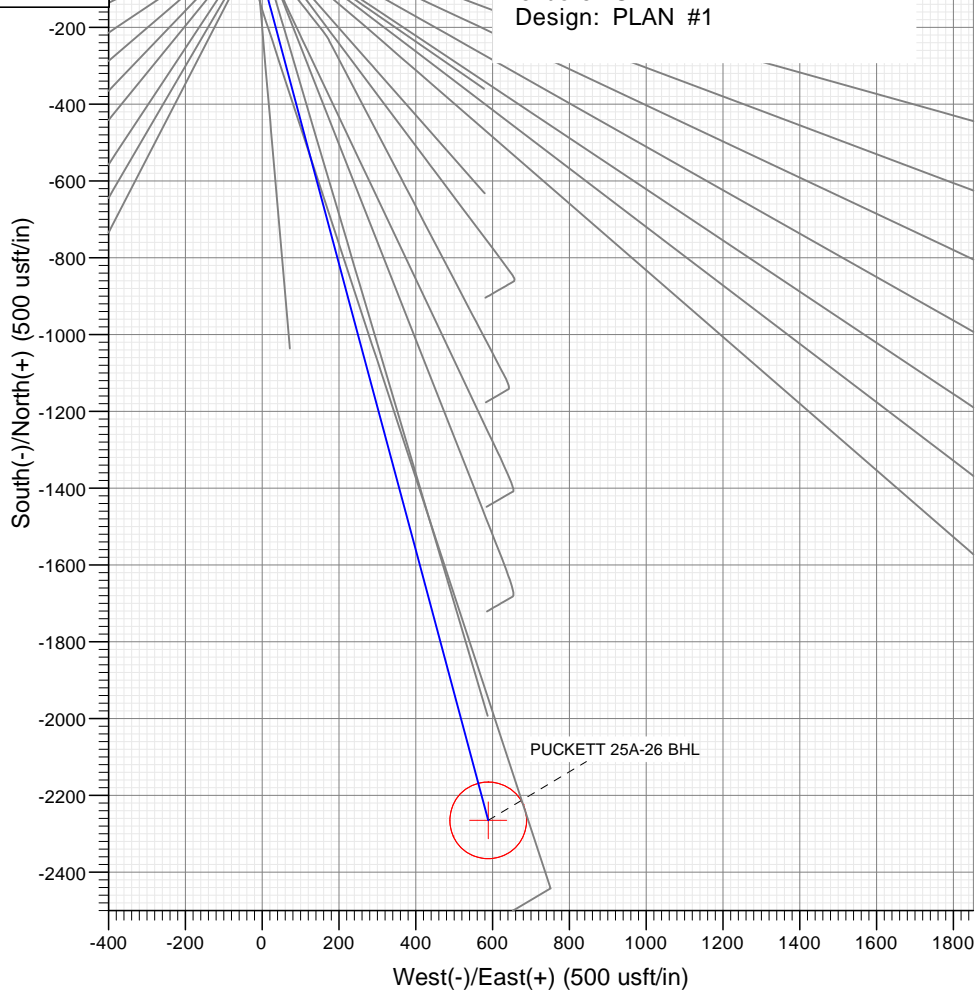
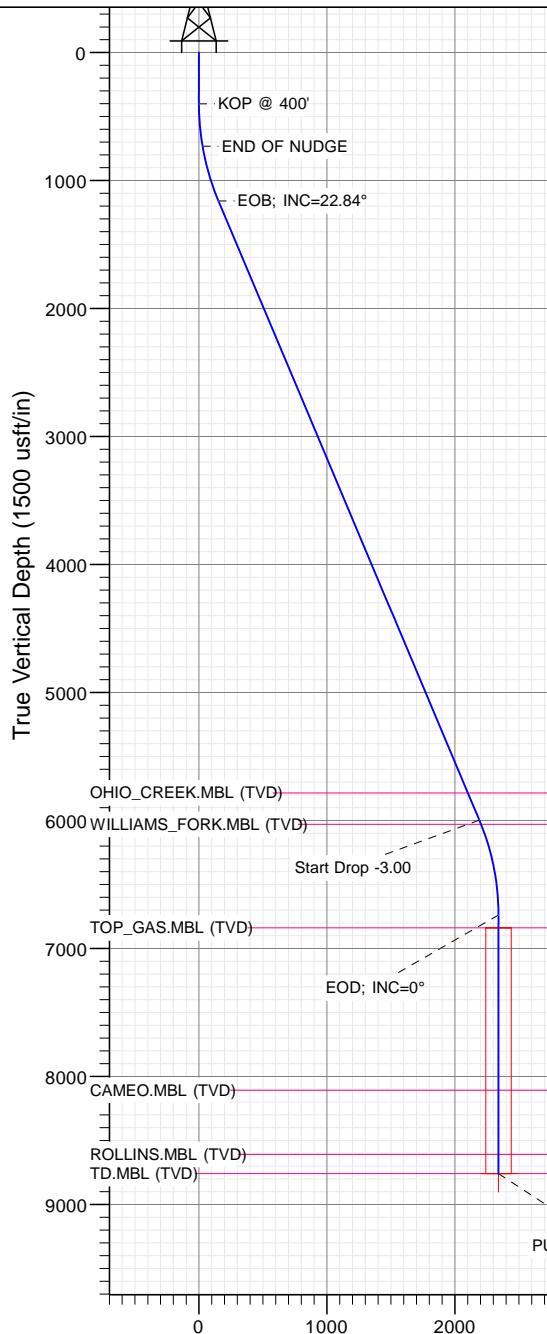


SECTION DETAILS

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	400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	
3	733.33	10.00	180.00	731.64	-29.02	0.00	3.00	180.00	28.08	
4	1180.74	22.84	165.00	1160.06	-152.31	22.58	3.00	-25.65	153.09	
5	6428.85	22.84	165.00	5996.59	-2120.20	549.94	0.00	0.00	2190.36	
6	7190.27	0.00	0.00	6738.00	-2264.87	588.72	3.00	180.00	2340.14	
7	9210.27	0.00	0.00	8758.00	-2264.87	588.72	0.00	0.00	2340.14	PUCKETT 25A-26 BHL

PLAN #1 PUCKETT 25A-26 XXX16; LR 30' KB @ 8352.00usft Ground Level @ 8322.00 NAD 1927 - Western US Well PUCKETT 25A-26, True North									
Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD			
TD	No Target (Freehand)	165.43	Spot	0.00	0.00	0.00	Latitude	Longitude	
Name	PUCKETT 25A-26 BHL	TVD	+N/-S	+E/-W	Latitude	Longitude			
		8758.00	-2264.87	588.72	39.488673	-108.188616			

Project: Garfield County, CO (UTM 12N)
 Site: S26-T6S-R97W (MESA F26)
 Well: PUCKETT 25A-26
 Wellbore: OH
 Design: PLAN #1



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
5784.00	6198.17	OHIO_CREEK.MBL (TVD)
6030.00	6464.96	WILLIAMS_FORK.MBL (TVD)
6838.00	7290.27	TOP_GAS.MBL (TVD)
8108.00	8560.27	CAMEO.MBL (TVD)
8608.00	9060.27	ROLLINS.MBL (TVD)
8758.00	9210.27	TD.MBL (TVD)



Azimuths to True North
 Magnetic North: 9.78°
 Magnetic Field
 Strength: 51819.5snT
 Dip Angle: 65.83°
 Date: 9/23/2016
 Model: HDGM

PUCKETT 25A-26 BHL

Vertical Section at 165.43° (1500 usft/in)

WELL DETAILS: PUCKETT 25A-26

+N/-S	+E/-W	Northing	Ground Level:	8322.00	Latitude	Longitude
0.00	0.00	14354493.40	Easting	2433180.90	39.494889	-108.190101

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 25A-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 25A-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 25A-26					
Well Position	+N/-S	0.00 usft	Northing:	14,354,493.40 usft	Latitude:	39.494889
	+E/-W	0.00 usft	Easting:	2,433,180.90 usft	Longitude:	-108.190101
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	165.43

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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
733.33	10.00	180.00	731.64	-29.02	0.00	3.00	3.00	0.00	180.00	
1,180.74	22.84	165.00	1,160.06	-152.31	22.58	3.00	2.87	-3.35	-25.65	
6,428.85	22.84	165.00	5,996.59	-2,120.20	549.94	0.00	0.00	0.00	0.00	
7,190.27	0.00	0.00	6,738.00	-2,264.87	588.72	3.00	-3.00	0.00	180.00	
9,210.27	0.00	0.00	8,758.00	-2,264.87	588.72	0.00	0.00	0.00	0.00	PUCKETT 25A-26 BH

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 25A-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 25A-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	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	KOP @ 400'
500.00	3.00	180.00	499.95	-2.62	0.00	2.53	3.00	3.00	
600.00	6.00	180.00	599.63	-10.46	0.00	10.13	3.00	3.00	
700.00	9.00	180.00	698.77	-23.51	0.00	22.76	3.00	3.00	
733.33	10.00	180.00	731.64	-29.02	0.00	28.08	3.00	3.00	END OF NUDGE
800.00	11.83	175.78	797.10	-41.62	0.50	40.41	3.00	2.75	
900.00	14.67	171.43	894.43	-64.37	3.15	63.09	3.00	2.83	
1,000.00	17.55	168.48	990.50	-91.67	8.05	90.75	3.00	2.89	
1,100.00	20.47	166.34	1,085.03	-123.45	15.19	123.30	3.00	2.92	
1,180.74	22.84	165.00	1,160.06	-152.31	22.58	153.09	3.00	2.94	EOB; INC=22.84°
1,200.00	22.84	165.00	1,177.82	-159.53	24.52	160.57	0.00	0.00	
1,300.00	22.84	165.00	1,269.98	-197.03	34.57	199.39	0.00	0.00	
1,400.00	22.84	165.00	1,362.13	-234.52	44.62	238.21	0.00	0.00	
1,500.00	22.84	165.00	1,454.29	-272.02	54.66	277.02	0.00	0.00	
1,600.00	22.84	165.00	1,546.45	-309.52	64.71	315.84	0.00	0.00	
1,700.00	22.84	165.00	1,638.61	-347.02	74.76	354.66	0.00	0.00	
1,800.00	22.84	165.00	1,730.76	-384.51	84.81	393.48	0.00	0.00	
1,900.00	22.84	165.00	1,822.92	-422.01	94.86	432.30	0.00	0.00	
2,000.00	22.84	165.00	1,915.08	-459.51	104.91	471.12	0.00	0.00	
2,100.00	22.84	165.00	2,007.23	-497.00	114.96	509.94	0.00	0.00	
2,200.00	22.84	165.00	2,099.39	-534.50	125.00	548.76	0.00	0.00	
2,300.00	22.84	165.00	2,191.55	-572.00	135.05	587.58	0.00	0.00	
2,400.00	22.84	165.00	2,283.71	-609.49	145.10	626.40	0.00	0.00	
2,500.00	22.84	165.00	2,375.86	-646.99	155.15	665.22	0.00	0.00	
2,600.00	22.84	165.00	2,468.02	-684.49	165.20	704.03	0.00	0.00	
2,700.00	22.84	165.00	2,560.18	-721.99	175.25	742.85	0.00	0.00	
2,800.00	22.84	165.00	2,652.34	-759.48	185.30	781.67	0.00	0.00	
2,900.00	22.84	165.00	2,744.49	-796.98	195.34	820.49	0.00	0.00	
3,000.00	22.84	165.00	2,836.65	-834.48	205.39	859.31	0.00	0.00	
3,100.00	22.84	165.00	2,928.81	-871.97	215.44	898.13	0.00	0.00	
3,200.00	22.84	165.00	3,020.97	-909.47	225.49	936.95	0.00	0.00	
3,300.00	22.84	165.00	3,113.12	-946.97	235.54	975.77	0.00	0.00	
3,400.00	22.84	165.00	3,205.28	-984.47	245.59	1,014.59	0.00	0.00	
3,500.00	22.84	165.00	3,297.44	-1,021.96	255.64	1,053.41	0.00	0.00	
3,600.00	22.84	165.00	3,389.60	-1,059.46	265.68	1,092.23	0.00	0.00	
3,700.00	22.84	165.00	3,481.75	-1,096.96	275.73	1,131.04	0.00	0.00	
3,800.00	22.84	165.00	3,573.91	-1,134.45	285.78	1,169.86	0.00	0.00	
3,900.00	22.84	165.00	3,666.07	-1,171.95	295.83	1,208.68	0.00	0.00	
4,000.00	22.84	165.00	3,758.23	-1,209.45	305.88	1,247.50	0.00	0.00	
4,100.00	22.84	165.00	3,850.38	-1,246.95	315.93	1,286.32	0.00	0.00	
4,200.00	22.84	165.00	3,942.54	-1,284.44	325.98	1,325.14	0.00	0.00	
4,300.00	22.84	165.00	4,034.70	-1,321.94	336.03	1,363.96	0.00	0.00	
4,400.00	22.84	165.00	4,126.86	-1,359.44	346.07	1,402.78	0.00	0.00	
4,500.00	22.84	165.00	4,219.01	-1,396.93	356.12	1,441.60	0.00	0.00	
4,600.00	22.84	165.00	4,311.17	-1,434.43	366.17	1,480.42	0.00	0.00	
4,700.00	22.84	165.00	4,403.33	-1,471.93	376.22	1,519.24	0.00	0.00	
4,800.00	22.84	165.00	4,495.49	-1,509.43	386.27	1,558.05	0.00	0.00	
4,900.00	22.84	165.00	4,587.64	-1,546.92	396.32	1,596.87	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 25A-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 25A-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
5,000.00	22.84	165.00	4,679.80	-1,584.42	406.37	1,635.69	0.00	0.00	
5,100.00	22.84	165.00	4,771.96	-1,621.92	416.41	1,674.51	0.00	0.00	
5,200.00	22.84	165.00	4,864.12	-1,659.41	426.46	1,713.33	0.00	0.00	
5,300.00	22.84	165.00	4,956.27	-1,696.91	436.51	1,752.15	0.00	0.00	
5,400.00	22.84	165.00	5,048.43	-1,734.41	446.56	1,790.97	0.00	0.00	
5,500.00	22.84	165.00	5,140.59	-1,771.91	456.61	1,829.79	0.00	0.00	
5,600.00	22.84	165.00	5,232.75	-1,809.40	466.66	1,868.61	0.00	0.00	
5,700.00	22.84	165.00	5,324.90	-1,846.90	476.71	1,907.43	0.00	0.00	
5,800.00	22.84	165.00	5,417.06	-1,884.40	486.75	1,946.25	0.00	0.00	
5,900.00	22.84	165.00	5,509.22	-1,921.89	496.80	1,985.06	0.00	0.00	
6,000.00	22.84	165.00	5,601.37	-1,959.39	506.85	2,023.88	0.00	0.00	
6,100.00	22.84	165.00	5,693.53	-1,996.89	516.90	2,062.70	0.00	0.00	
6,198.17	22.84	165.00	5,784.00	-2,033.70	526.76	2,100.81	0.00	0.00	OHIO_CREEK.MBL (TVD)
6,200.00	22.84	165.00	5,785.69	-2,034.38	526.95	2,101.52	0.00	0.00	
6,300.00	22.84	165.00	5,877.85	-2,071.88	537.00	2,140.34	0.00	0.00	
6,400.00	22.84	165.00	5,970.00	-2,109.38	547.05	2,179.16	0.00	0.00	
6,428.85	22.84	165.00	5,996.59	-2,120.20	549.94	2,190.36	0.00	0.00	Start Drop -3.00
6,464.96	21.76	165.00	6,030.00	-2,133.43	553.49	2,204.06	3.00	-3.00	WILLIAMS_FORK.MBL (TVD)
6,500.00	20.71	165.00	6,062.66	-2,145.69	556.78	2,216.75	3.00	-3.00	
6,600.00	17.71	165.00	6,157.08	-2,177.47	565.29	2,249.65	3.00	-3.00	
6,700.00	14.71	165.00	6,253.10	-2,204.42	572.52	2,277.56	3.00	-3.00	
6,800.00	11.71	165.00	6,350.44	-2,226.49	578.43	2,300.40	3.00	-3.00	
6,900.00	8.71	165.00	6,448.85	-2,243.61	583.02	2,318.12	3.00	-3.00	
7,000.00	5.71	165.00	6,548.05	-2,255.73	586.26	2,330.67	3.00	-3.00	
7,100.00	2.71	165.00	6,647.76	-2,262.81	588.16	2,338.00	3.00	-3.00	
7,190.27	0.00	0.00	6,738.00	-2,264.87	588.72	2,340.14	3.00	-3.00	EOD; INC=0°
7,200.00	0.00	0.00	6,747.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,290.27	0.00	0.00	6,838.00	-2,264.87	588.72	2,340.14	0.00	0.00	TOP_GAS.MBL (TVD)
7,300.00	0.00	0.00	6,847.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,400.00	0.00	0.00	6,947.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,500.00	0.00	0.00	7,047.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,600.00	0.00	0.00	7,147.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,700.00	0.00	0.00	7,247.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,800.00	0.00	0.00	7,347.73	-2,264.87	588.72	2,340.14	0.00	0.00	
7,900.00	0.00	0.00	7,447.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,000.00	0.00	0.00	7,547.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,100.00	0.00	0.00	7,647.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,200.00	0.00	0.00	7,747.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,300.00	0.00	0.00	7,847.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,400.00	0.00	0.00	7,947.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,500.00	0.00	0.00	8,047.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,560.27	0.00	0.00	8,108.00	-2,264.87	588.72	2,340.14	0.00	0.00	CAMEO.MBL (TVD)
8,600.00	0.00	0.00	8,147.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,700.00	0.00	0.00	8,247.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,800.00	0.00	0.00	8,347.73	-2,264.87	588.72	2,340.14	0.00	0.00	
8,900.00	0.00	0.00	8,447.73	-2,264.87	588.72	2,340.14	0.00	0.00	
9,000.00	0.00	0.00	8,547.73	-2,264.87	588.72	2,340.14	0.00	0.00	
9,060.27	0.00	0.00	8,608.00	-2,264.87	588.72	2,340.14	0.00	0.00	ROLLINS.MBL (TVD)
9,100.00	0.00	0.00	8,647.73	-2,264.87	588.72	2,340.14	0.00	0.00	
9,200.00	0.00	0.00	8,747.73	-2,264.87	588.72	2,340.14	0.00	0.00	
9,210.27	0.00	0.00	8,758.00	-2,264.87	588.72	2,340.14	0.00	0.00	TD at 9210.27 - TD.MBL (TVD)

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 25A-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 25A-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 25A-26 BHL	0.00	0.00	8,758.00	-2,264.87	588.72	14,352,248.00	2,433,840.00	39.488673	-108.188016
- plan hits target center									
- Circle (radius 100.00)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,198.17	5,784.00	OHIO_CREEK.MBL (TVD)				
6,464.96	6,030.00	WILLIAMS_FORK.MBL (TVD)				
7,290.27	6,838.00	TOP_GAS.MBL (TVD)				
8,560.27	8,108.00	CAMEO.MBL (TVD)				
9,060.27	8,608.00	ROLLINS.MBL (TVD)				
9,210.27	8,758.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
400.00	400.00	0.00	0.00	KOP @ 400'	
733.33	731.64	-29.02	0.00	END OF NUDGE	
1,180.74	1,160.06	-152.31	22.58	EOB; INC=22.84°	
6,428.85	5,996.59	-2,120.20	549.94	Start Drop -3.00	
7,190.27	6,738.00	-2,264.87	588.72	EOD; INC=0°	
9,210.27	8,758.00	-2,264.87	588.72	TD at 9210.27	