



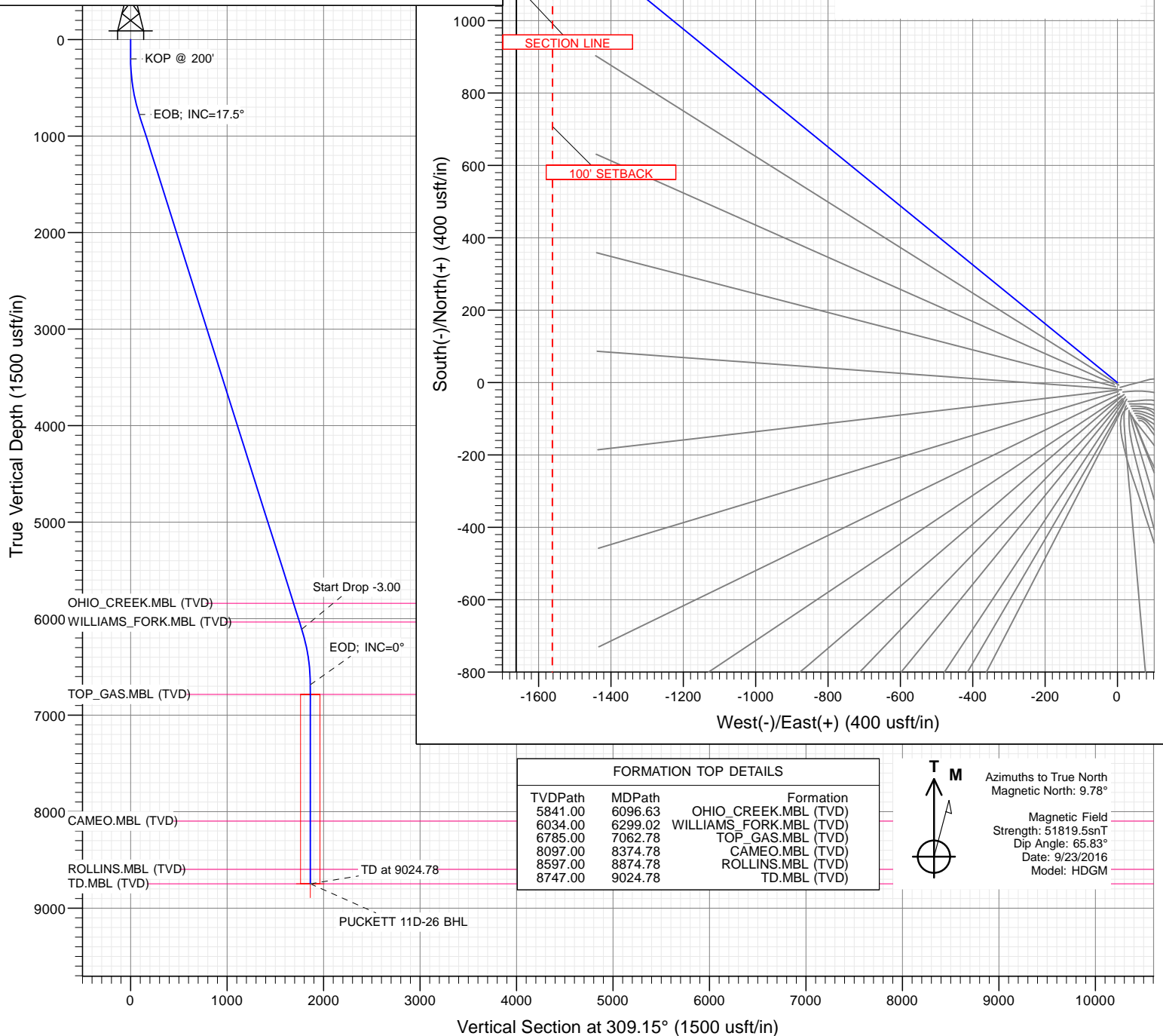
SECTION DETAILS

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	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	784.15	17.52	309.15	775.08	55.96	-68.74	3.00	309.15	88.64	
4	6378.63	17.52	309.15	6109.92	1119.56	-1375.09	0.00	0.00	1773.21	
5	6962.78	0.00	0.00	6685.00	1175.52	-1443.82	3.00	180.00	1861.85	
6	9024.78	0.00	0.00	8747.00	1175.52	-1443.82	0.00	0.00	1861.85	PUCKETT 11D-26 BHL

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
TD	No Target (Freehand)	309.15	Spot	0.00	0.00	0.00
Name	PUCKETT 11D-26 BHL	TVD	+N/-S	+E/-W	Latitude	Longitude
		8747.00	1175.52	-1443.82	39.498325	-108.193299

PLAN #1
PUCKETT 11D-26
XXX16; LR
30' KB @ 8322.00usft
Ground Level @ 8322.00
NAD 1927 - Western US
Well PUCKETT 11D-26, True North

Project: Garfield County, CO (UTM 12N)
Site: S26-T6S-R97W (MESA F26)
Well: PUCKETT 11D-26
Wellbore: OH
Design: PLAN #1



WELL DETAILS: PUCKETT 11D-26

+N/-S	+E/-W	Northing	Ground Level:	8322.00	Latitude	Longitude
0.00	0.00	14354569.10	Easting	2433146.50	39.495099	-108.190214

CATHEDRAL



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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
From:	Map	Easting:	2,433,169.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	39.494943
		Longitude:	-108.190140
		Grid Convergence:	1.79 °

Well	PUCKETT 11D-26		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	39.495099
		Longitude:	-108.190214
		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	309.15

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.00	0.00	0.00	0.00	0.00	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	0.00	
784.15	17.52	309.15	775.08	55.96	-68.74	3.00	3.00	0.00	309.15	
6,378.63	17.52	309.15	6,109.92	1,119.56	-1,375.09	0.00	0.00	0.00	0.00	
6,962.78	0.00	0.00	6,685.00	1,175.52	-1,443.82	3.00	-3.00	0.00	180.00	
9,024.78	0.00	0.00	8,747.00	1,175.52	-1,443.82	0.00	0.00	0.00	0.00	PUCKETT 11D-26 BH

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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	KOP @ 200'
300.00	3.00	309.15	299.95	1.65	-2.03	2.62	3.00	3.00	
400.00	6.00	309.15	399.63	6.61	-8.11	10.46	3.00	3.00	
500.00	9.00	309.15	498.77	14.85	-18.23	23.51	3.00	3.00	
600.00	12.00	309.15	597.08	26.35	-32.36	41.74	3.00	3.00	
700.00	15.00	309.15	694.31	41.09	-50.47	65.08	3.00	3.00	
784.15	17.52	309.15	775.08	55.96	-68.74	88.64	3.00	3.00	EOB; INC=17.5°
800.00	17.52	309.15	790.20	58.98	-72.44	93.41	0.00	0.00	
900.00	17.52	309.15	885.56	77.99	-95.79	123.52	0.00	0.00	
1,000.00	17.52	309.15	980.92	97.00	-119.14	153.64	0.00	0.00	
1,100.00	17.52	309.15	1,076.28	116.01	-142.49	183.75	0.00	0.00	
1,200.00	17.52	309.15	1,171.63	135.02	-165.84	213.86	0.00	0.00	
1,300.00	17.52	309.15	1,266.99	154.04	-189.19	243.97	0.00	0.00	
1,400.00	17.52	309.15	1,362.35	173.05	-212.54	274.08	0.00	0.00	
1,500.00	17.52	309.15	1,457.71	192.06	-235.89	304.19	0.00	0.00	
1,600.00	17.52	309.15	1,553.07	211.07	-259.24	334.30	0.00	0.00	
1,700.00	17.52	309.15	1,648.43	230.08	-282.60	364.41	0.00	0.00	
1,800.00	17.52	309.15	1,743.79	249.09	-305.95	394.53	0.00	0.00	
1,900.00	17.52	309.15	1,839.15	268.10	-329.30	424.64	0.00	0.00	
2,000.00	17.52	309.15	1,934.51	287.12	-352.65	454.75	0.00	0.00	
2,100.00	17.52	309.15	2,029.86	306.13	-376.00	484.86	0.00	0.00	
2,200.00	17.52	309.15	2,125.22	325.14	-399.35	514.97	0.00	0.00	
2,300.00	17.52	309.15	2,220.58	344.15	-422.70	545.08	0.00	0.00	
2,400.00	17.52	309.15	2,315.94	363.16	-446.05	575.19	0.00	0.00	
2,500.00	17.52	309.15	2,411.30	382.17	-469.40	605.30	0.00	0.00	
2,600.00	17.52	309.15	2,506.66	401.18	-492.75	635.42	0.00	0.00	
2,700.00	17.52	309.15	2,602.02	420.20	-516.10	665.53	0.00	0.00	
2,800.00	17.52	309.15	2,697.38	439.21	-539.45	695.64	0.00	0.00	
2,900.00	17.52	309.15	2,792.73	458.22	-562.80	725.75	0.00	0.00	
3,000.00	17.52	309.15	2,888.09	477.23	-586.15	755.86	0.00	0.00	
3,100.00	17.52	309.15	2,983.45	496.24	-609.50	785.97	0.00	0.00	
3,200.00	17.52	309.15	3,078.81	515.25	-632.86	816.08	0.00	0.00	
3,300.00	17.52	309.15	3,174.17	534.26	-656.21	846.19	0.00	0.00	
3,400.00	17.52	309.15	3,269.53	553.28	-679.56	876.31	0.00	0.00	
3,500.00	17.52	309.15	3,364.89	572.29	-702.91	906.42	0.00	0.00	
3,600.00	17.52	309.15	3,460.25	591.30	-726.26	936.53	0.00	0.00	
3,700.00	17.52	309.15	3,555.61	610.31	-749.61	966.64	0.00	0.00	
3,800.00	17.52	309.15	3,650.96	629.32	-772.96	996.75	0.00	0.00	
3,900.00	17.52	309.15	3,746.32	648.33	-796.31	1,026.86	0.00	0.00	
4,000.00	17.52	309.15	3,841.68	667.35	-819.66	1,056.97	0.00	0.00	
4,100.00	17.52	309.15	3,937.04	686.36	-843.01	1,087.08	0.00	0.00	
4,200.00	17.52	309.15	4,032.40	705.37	-866.36	1,117.20	0.00	0.00	
4,300.00	17.52	309.15	4,127.76	724.38	-889.71	1,147.31	0.00	0.00	
4,400.00	17.52	309.15	4,223.12	743.39	-913.06	1,177.42	0.00	0.00	
4,500.00	17.52	309.15	4,318.48	762.40	-936.41	1,207.53	0.00	0.00	
4,600.00	17.52	309.15	4,413.84	781.41	-959.76	1,237.64	0.00	0.00	
4,700.00	17.52	309.15	4,509.19	800.43	-983.12	1,267.75	0.00	0.00	
4,800.00	17.52	309.15	4,604.55	819.44	-1,006.47	1,297.86	0.00	0.00	
4,900.00	17.52	309.15	4,699.91	838.45	-1,029.82	1,327.98	0.00	0.00	
5,000.00	17.52	309.15	4,795.27	857.46	-1,053.17	1,358.09	0.00	0.00	

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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	17.52	309.15	4,890.63	876.47	-1,076.52	1,388.20	0.00	0.00	
5,200.00	17.52	309.15	4,985.99	895.48	-1,099.87	1,418.31	0.00	0.00	
5,300.00	17.52	309.15	5,081.35	914.49	-1,123.22	1,448.42	0.00	0.00	
5,400.00	17.52	309.15	5,176.71	933.51	-1,146.57	1,478.53	0.00	0.00	
5,500.00	17.52	309.15	5,272.07	952.52	-1,169.92	1,508.64	0.00	0.00	
5,600.00	17.52	309.15	5,367.42	971.53	-1,193.27	1,538.75	0.00	0.00	
5,700.00	17.52	309.15	5,462.78	990.54	-1,216.62	1,568.87	0.00	0.00	
5,800.00	17.52	309.15	5,558.14	1,009.55	-1,239.97	1,598.98	0.00	0.00	
5,900.00	17.52	309.15	5,653.50	1,028.56	-1,263.32	1,629.09	0.00	0.00	
6,000.00	17.52	309.15	5,748.86	1,047.57	-1,286.67	1,659.20	0.00	0.00	
6,096.63	17.52	309.15	5,841.00	1,065.94	-1,309.24	1,688.29	0.00	0.00	OHIO_CREEK.MBL (TVD)
6,100.00	17.52	309.15	5,844.22	1,066.59	-1,310.02	1,689.31	0.00	0.00	
6,200.00	17.52	309.15	5,939.58	1,085.60	-1,333.38	1,719.42	0.00	0.00	
6,299.02	17.52	309.15	6,034.00	1,104.42	-1,356.50	1,749.24	0.00	0.00	WILLIAMS_FORK.MBL (TVD)
6,300.00	17.52	309.15	6,034.94	1,104.61	-1,356.73	1,749.53	0.00	0.00	
6,378.63	17.52	309.15	6,109.92	1,119.56	-1,375.09	1,773.21	0.00	0.00	Start Drop -3.00
6,400.00	16.88	309.15	6,130.33	1,123.55	-1,379.99	1,779.53	3.00	-3.00	
6,500.00	13.88	309.15	6,226.74	1,140.30	-1,400.56	1,806.05	3.00	-3.00	
6,600.00	10.88	309.15	6,324.40	1,153.83	-1,417.19	1,827.50	3.00	-3.00	
6,700.00	7.88	309.15	6,423.05	1,164.13	-1,429.83	1,843.80	3.00	-3.00	
6,800.00	4.88	309.15	6,522.42	1,171.15	-1,438.45	1,854.92	3.00	-3.00	
6,900.00	1.88	309.15	6,622.23	1,174.87	-1,443.02	1,860.82	3.00	-3.00	
6,962.78	0.00	0.00	6,685.00	1,175.52	-1,443.82	1,861.85	3.00	-3.00	EOD; INC=0°
7,000.00	0.00	0.00	6,722.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,062.78	0.00	0.00	6,785.00	1,175.52	-1,443.82	1,861.85	0.00	0.00	TOP_GAS.MBL (TVD)
7,100.00	0.00	0.00	6,822.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,200.00	0.00	0.00	6,922.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,300.00	0.00	0.00	7,022.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,400.00	0.00	0.00	7,122.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,500.00	0.00	0.00	7,222.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,600.00	0.00	0.00	7,322.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,700.00	0.00	0.00	7,422.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,800.00	0.00	0.00	7,522.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
7,900.00	0.00	0.00	7,622.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,000.00	0.00	0.00	7,722.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,100.00	0.00	0.00	7,822.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,200.00	0.00	0.00	7,922.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,300.00	0.00	0.00	8,022.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,374.78	0.00	0.00	8,097.00	1,175.52	-1,443.82	1,861.85	0.00	0.00	CAMEO.MBL (TVD)
8,400.00	0.00	0.00	8,122.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,500.00	0.00	0.00	8,222.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,600.00	0.00	0.00	8,322.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,700.00	0.00	0.00	8,422.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,800.00	0.00	0.00	8,522.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
8,874.78	0.00	0.00	8,597.00	1,175.52	-1,443.82	1,861.85	0.00	0.00	ROLLINS.MBL (TVD)
8,900.00	0.00	0.00	8,622.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
9,000.00	0.00	0.00	8,722.22	1,175.52	-1,443.82	1,861.85	0.00	0.00	
9,024.78	0.00	0.00	8,747.00	1,175.52	-1,443.82	1,861.85	0.00	0.00	TD at 9024.78 - TD.MBL (TVD)

Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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 11D-26 BHL	0.00	0.00	8,747.00	1,175.52	-1,443.82	14,355,699.00	2,431,666.70	39.498325	-108.195329
- plan hits target center									
- Circle (radius 100.00)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
6,096.63	5,841.00	OHIO_CREEK.MBL (TVD)				
6,299.02	6,034.00	WILLIAMS_FORK.MBL (TVD)				
7,062.78	6,785.00	TOP_GAS.MBL (TVD)				
8,374.78	8,097.00	CAMEO.MBL (TVD)				
8,874.78	8,597.00	ROLLINS.MBL (TVD)				
9,024.78	8,747.00	TD.MBL (TVD)				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
200.00	200.00	0.00	0.00	KOP @ 200'	
784.15	775.08	55.96	-68.74	EOB; INC=17.5°	
6,378.63	6,109.92	1,119.56	-1,375.09	Start Drop -3.00	
6,962.78	6,685.00	1,175.52	-1,443.82	EOD; INC=0°	
9,024.78	8,747.00	1,175.52	-1,443.82	TD at 9024.78	