



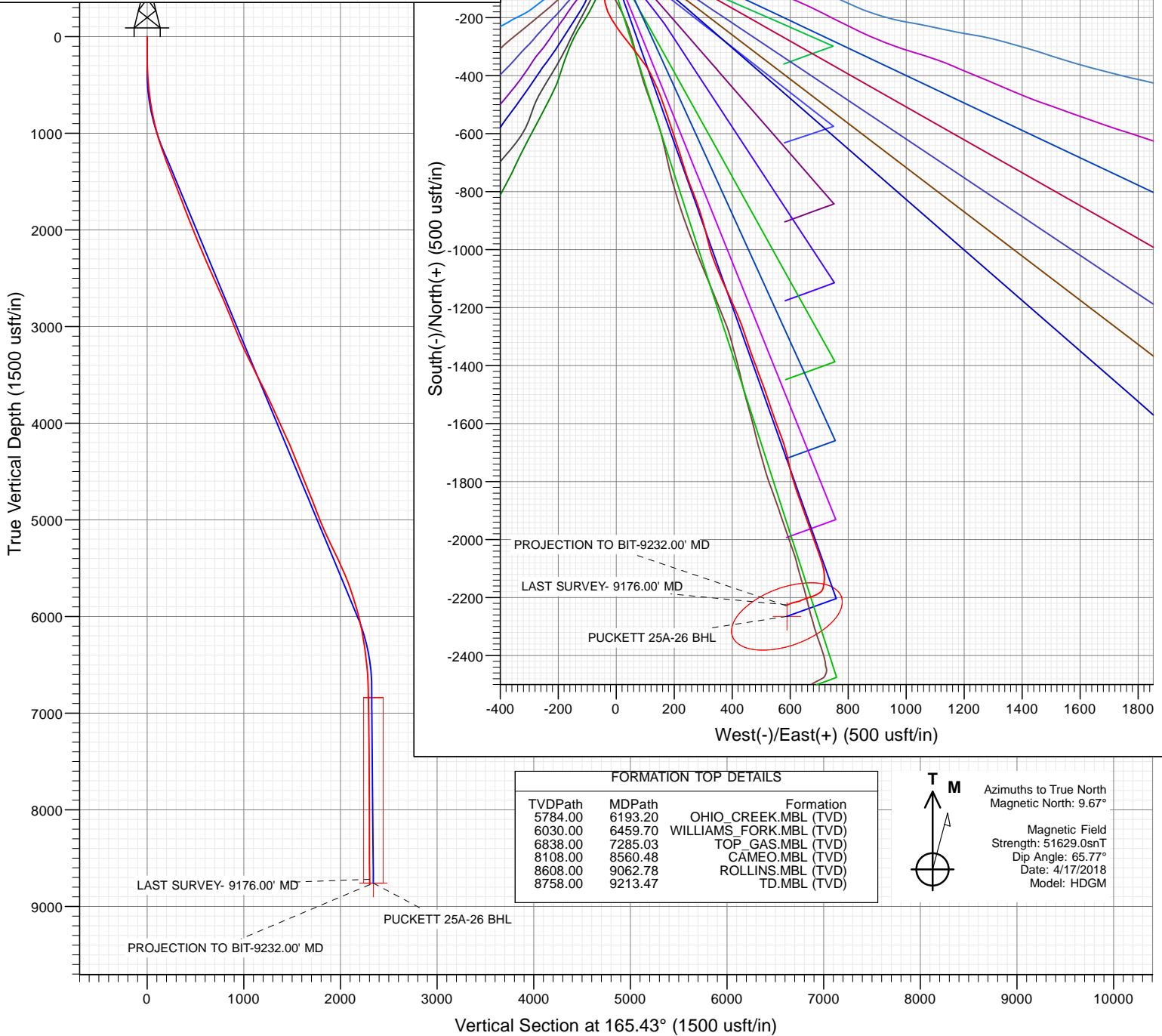
SECTION DETAILS

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	375.00	0.00	0.00	375.00	0.00	0.00	0.00	0.00	0.00	
3	708.33	10.00	180.00	706.64	-29.02	0.00	3.00	180.00	28.08	
4	1163.04	22.67	160.43	1142.39	-151.63	29.49	3.00	-33.19	154.17	
5	6429.41	22.67	160.43	6001.96	-2063.99	709.31	0.00	0.00	2176.05	
6	7185.01	0.00	0.00	6738.00	-2203.00	758.72	3.00	180.00	2323.02	
7	7459.45	5.49	250.00	7012.03	-2207.49	746.38	2.00	250.00	2324.26	
8	9213.47	5.49	250.00	8758.00	-2264.87	588.72	0.00	0.00	2340.14	PUCKETT 25A-26 BHL

OH
PUCKETT 25A-26
XXX16; LR
30' KB @ 8322.00ft
Ground Level @ 8322.00
NAD 1927 - Western US
Well PUCKETT 25A-26, True North

Name	Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD	Latitude	Longitude
PUCKETT 25A-26 BHL	No Target (Freehand)		165.43	Slot	0.00	0.00	0.00	39.4948873	-108.18016

Project: Garfield County, CO (UTM 12N)
Site: S26-T6S-R97W (MESA F26) (RIG: HP 3)
Well: PUCKETT 25A-26
Wellbore: OH
Design: OH



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

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 25A-26
Project:	Garfield County, CO (UTM 12N)	TVD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26) (RIG: HP 330)	MD Reference:	30' KB @ 8352.00usft
Well:	PUCKETT 25A-26	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	USA EDM 5000 Multi Users DB

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) (RIG: HP 330), Gravity = 0.9975g			
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	4/17/2018	9.67	65.77	51,629.00000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	165.43	

Survey Program	Date	4/25/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
172.00	2,467.00	Survey #1 (OH)	INC+TREND	Inclinometer + known azi trend	
2,600.00	9,232.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HDGM	

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
172.00	0.22	70.13	172.00	0.11	0.31	-0.03	0.13	0.13	
202.00	0.44	174.89	202.00	0.02	0.37	0.08	1.80	0.73	
233.00	0.44	174.46	233.00	-0.22	0.40	0.31	0.01	0.00	
263.00	0.66	158.64	263.00	-0.50	0.47	0.60	0.88	0.73	
292.00	0.66	198.45	292.00	-0.81	0.48	0.90	1.55	0.00	
384.00	3.65	183.24	383.92	-4.24	0.15	4.14	3.28	3.25	
473.00	6.77	195.02	472.54	-12.13	-1.37	11.40	3.69	3.51	
563.00	8.48	207.50	561.75	-23.15	-5.81	20.94	2.63	1.90	
658.00	10.50	212.51	655.45	-36.66	-13.70	32.03	2.30	2.13	
751.00	12.52	208.56	746.57	-52.66	-23.08	45.16	2.33	2.17	
845.00	14.37	201.70	838.00	-72.45	-32.26	62.00	2.60	1.97	

Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 25A-26
Project:	Garfield County, CO (UTM 12N)	TVD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26) (RIG: HP 330)	MD Reference:	30' KB @ 8352.00usft
Well:	PUCKETT 25A-26	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
939.00	15.95	191.59	928.74	-95.95	-39.17	83.01	3.27	1.68	
1,032.00	17.31	179.29	1,017.88	-122.31	-41.57	107.92	4.05	1.46	
1,126.00	17.80	167.69	1,107.53	-150.34	-38.33	135.86	3.75	0.52	
1,220.00	19.12	157.14	1,196.71	-178.57	-29.28	165.46	3.81	1.40	
1,313.00	20.83	149.06	1,284.13	-206.79	-14.86	196.41	3.49	1.84	
1,407.00	22.68	144.84	1,371.44	-235.95	4.17	229.41	2.58	1.97	
1,500.00	23.77	142.55	1,456.90	-265.49	25.89	263.46	1.52	1.17	
1,594.00	23.64	141.85	1,542.97	-295.35	49.06	298.19	0.33	-0.14	
1,688.00	22.68	142.02	1,629.40	-324.46	71.85	332.10	1.02	-1.02	
1,782.00	22.32	144.22	1,716.24	-353.22	93.44	365.37	0.97	-0.38	
1,876.00	21.62	150.11	1,803.43	-382.72	112.51	398.72	2.46	-0.74	
1,971.00	21.23	155.56	1,891.87	-413.56	128.35	432.54	2.13	-0.41	
2,065.00	21.53	156.79	1,979.40	-444.90	142.19	466.36	0.57	0.32	
2,159.00	23.16	160.04	2,066.34	-478.13	155.30	501.82	2.18	1.73	
2,254.00	23.64	161.89	2,153.53	-513.80	167.59	539.43	0.92	0.51	
2,348.00	22.54	159.34	2,240.00	-548.57	179.81	576.16	1.58	-1.17	
2,442.00	22.81	161.10	2,326.74	-582.67	192.07	612.25	0.78	0.29	
2,467.00	23.42	162.15	2,349.73	-591.98	195.16	622.04	2.94	2.44	
2,600.00	25.01	163.03	2,471.02	-644.03	211.47	676.52	1.23	1.20	
2,694.00	23.77	161.62	2,556.63	-681.02	223.24	715.28	1.46	-1.32	
2,788.00	23.95	163.38	2,642.60	-717.28	234.67	753.25	0.78	0.19	
2,883.00	23.51	160.92	2,729.57	-753.66	246.38	791.41	1.14	-0.46	
2,977.00	23.07	158.11	2,815.91	-788.47	259.38	828.37	1.27	-0.47	
3,072.00	22.10	160.74	2,903.63	-822.62	272.21	864.64	1.47	-1.02	
3,166.00	21.31	158.90	2,990.97	-855.25	284.20	899.24	1.11	-0.84	
3,260.00	22.46	163.82	3,078.20	-888.43	295.35	934.16	2.30	1.22	
3,355.00	23.86	166.72	3,165.54	-924.56	304.82	971.51	1.90	1.47	
3,449.00	25.71	165.67	3,250.88	-962.82	314.23	1,010.91	2.02	1.97	
3,544.00	26.37	163.38	3,336.24	-1,003.01	325.37	1,052.60	1.27	0.69	
3,638.00	26.28	158.11	3,420.50	-1,042.32	339.10	1,094.11	2.49	-0.10	
3,732.00	27.07	157.84	3,504.50	-1,081.44	354.93	1,135.95	0.85	0.84	
3,827.00	27.99	155.12	3,588.74	-1,121.69	372.46	1,179.31	1.64	0.97	
3,921.00	25.88	155.21	3,672.54	-1,160.33	390.35	1,221.21	2.25	-2.24	
4,015.00	25.14	156.53	3,757.38	-1,197.27	406.90	1,261.13	0.99	-0.79	
4,110.00	25.31	157.58	3,843.32	-1,234.55	422.68	1,301.18	0.50	0.18	
4,204.00	24.79	161.36	3,928.48	-1,271.80	436.64	1,340.75	1.79	-0.55	
4,298.00	25.01	161.36	4,013.74	-1,309.30	449.29	1,380.22	0.23	0.23	
4,392.00	24.35	161.01	4,099.16	-1,346.45	461.95	1,419.36	0.72	-0.70	
4,487.00	24.43	158.90	4,185.68	-1,383.30	475.40	1,458.41	0.92	0.08	
4,581.00	22.10	160.13	4,272.03	-1,418.07	488.41	1,495.33	2.53	-2.48	
4,676.00	21.93	159.16	4,360.10	-1,451.46	500.79	1,530.76	0.42	-0.18	
4,770.00	21.89	161.18	4,447.32	-1,484.45	512.69	1,565.69	0.80	-0.04	
4,865.00	22.15	160.92	4,535.39	-1,518.14	524.26	1,601.20	0.29	0.27	
4,959.00	22.63	161.71	4,622.30	-1,552.06	535.72	1,636.91	0.60	0.51	
5,054.00	22.02	159.87	4,710.18	-1,586.13	547.59	1,672.88	0.98	-0.64	
5,148.00	21.71	159.95	4,797.42	-1,619.01	559.61	1,707.72	0.33	-0.33	
5,243.00	21.01	159.34	4,885.89	-1,651.45	571.65	1,742.15	0.77	-0.74	
5,337.00	21.67	163.91	4,973.45	-1,683.89	582.40	1,776.26	1.90	0.70	
5,431.00	22.81	167.60	5,060.46	-1,718.37	591.13	1,811.81	1.92	1.21	
5,526.00	24.61	166.55	5,147.44	-1,755.60	599.68	1,850.00	1.95	1.89	
5,620.00	25.93	162.33	5,232.45	-1,794.22	610.48	1,890.09	2.38	1.40	
5,714.00	26.24	161.89	5,316.88	-1,833.55	623.17	1,931.35	0.39	0.33	
5,809.00	25.09	161.01	5,402.50	-1,872.56	636.26	1,972.40	1.28	-1.21	

Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 25A-26
Project:	Garfield County, CO (UTM 12N)	TVD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26) (RIG: HP 330)	MD Reference:	30' KB @ 8352.00usft
Well:	PUCKETT 25A-26	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	USA EDM 5000 Multi Users DB

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100u)	Formations / Comments
5,903.00	24.30	159.51	5,487.91	-1,909.52	649.51	2,011.51	1.07	-0.84	
5,998.00	22.76	160.57	5,575.00	-1,945.17	662.47	2,049.27	1.68	-1.62	
6,092.00	20.13	160.31	5,662.49	-1,977.55	673.97	2,083.50	2.80	-2.80	
6,186.00	18.63	160.83	5,751.16	-2,006.96	684.35	2,114.58	1.61	-1.60	
6,281.00	17.36	159.87	5,841.51	-2,034.60	694.21	2,143.81	1.37	-1.34	
6,375.00	15.82	160.83	5,931.60	-2,059.87	703.24	2,170.54	1.66	-1.64	
6,470.00	13.62	163.12	6,023.47	-2,082.81	710.75	2,194.63	2.39	-2.32	
6,564.00	11.38	170.41	6,115.24	-2,102.55	715.50	2,214.93	2.91	-2.38	
6,658.00	9.89	174.98	6,207.63	-2,119.74	717.76	2,232.13	1.82	-1.59	
6,753.00	8.70	183.77	6,301.38	-2,135.03	718.00	2,247.00	1.95	-1.25	
6,847.00	7.91	185.18	6,394.40	-2,148.57	716.95	2,259.83	0.87	-0.84	
6,942.00	6.42	189.40	6,488.65	-2,160.32	715.49	2,270.84	1.66	-1.57	
7,036.00	5.14	201.61	6,582.18	-2,169.42	713.08	2,279.04	1.88	-1.36	
7,130.00	4.26	219.72	6,675.87	-2,176.02	709.30	2,284.48	1.82	-0.94	
7,225.00	3.30	229.56	6,770.66	-2,180.51	704.96	2,287.73	1.22	-1.01	
7,320.00	3.03	225.43	6,865.51	-2,184.05	701.09	2,290.18	0.37	-0.28	
7,414.00	3.34	243.71	6,959.37	-2,187.00	696.87	2,291.98	1.12	0.33	
7,508.00	3.52	254.17	7,053.20	-2,189.00	691.64	2,292.60	0.69	0.19	
7,602.00	4.53	242.92	7,146.97	-2,191.48	685.55	2,293.46	1.36	1.07	
7,697.00	4.48	245.12	7,241.68	-2,194.75	678.85	2,294.94	0.19	-0.05	
7,791.00	3.30	250.74	7,335.46	-2,197.18	672.96	2,295.82	1.32	-1.26	
7,885.00	2.24	253.12	7,429.35	-2,198.61	668.65	2,296.11	1.13	-1.13	
7,980.00	2.46	258.39	7,524.27	-2,199.56	664.88	2,296.08	0.32	0.23	
8,168.00	3.74	247.05	7,711.99	-2,202.76	655.28	2,296.77	0.75	0.68	
8,356.00	4.13	247.05	7,899.55	-2,207.79	643.40	2,298.65	0.21	0.21	
8,545.00	3.47	249.25	8,088.13	-2,212.47	631.78	2,300.26	0.36	-0.35	
8,733.00	3.52	260.41	8,275.79	-2,215.45	620.77	2,300.37	0.36	0.03	
8,920.00	3.87	259.09	8,462.40	-2,217.60	608.91	2,299.47	0.19	0.19	
9,176.00	5.41	239.76	8,717.56	-2,225.32	590.00	2,302.17	0.85	0.60	LAST SURVEY- 9176.00' MD
9,232.00	5.41	239.76	8,773.32	-2,227.97	585.44	2,303.60	0.00	0.00	PROJECTION TO BIT-9232.00' MD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
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
- hit/miss target									
- Shape									
- actual wellpath misses target center by 37.65usft at 9218.24usft MD (8759.61 TVD, -2227.32 N, 586.56 E)									
- Ellipse (radii L200.00 W100.00 on 250.00 azi)									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
9,176.00	8,717.56	-2,225.32	590.00	LAST SURVEY- 9176.00' MD
9,232.00	8,773.32	-2,227.97	585.44	PROJECTION TO BIT-9232.00' MD

Checked By: _____ Approved By: _____ Date: _____