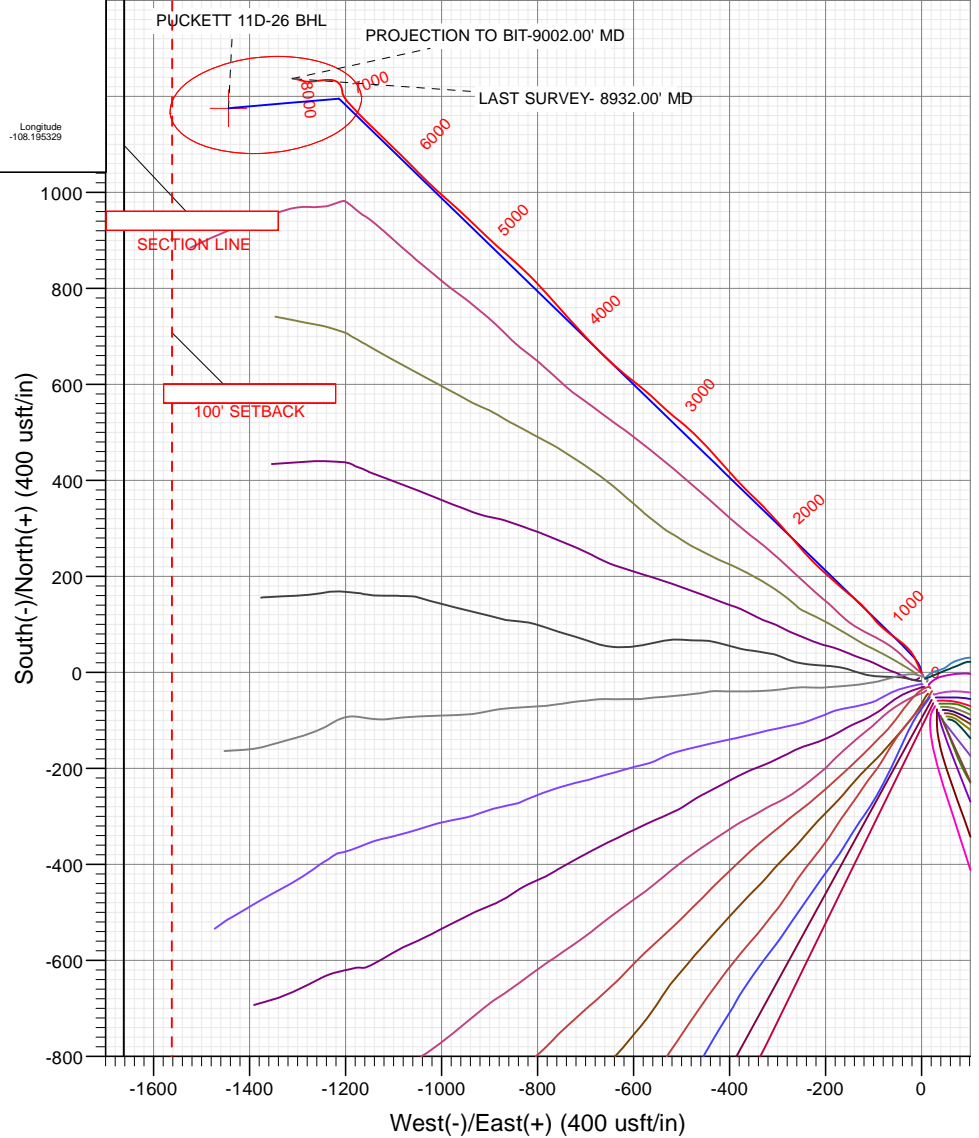
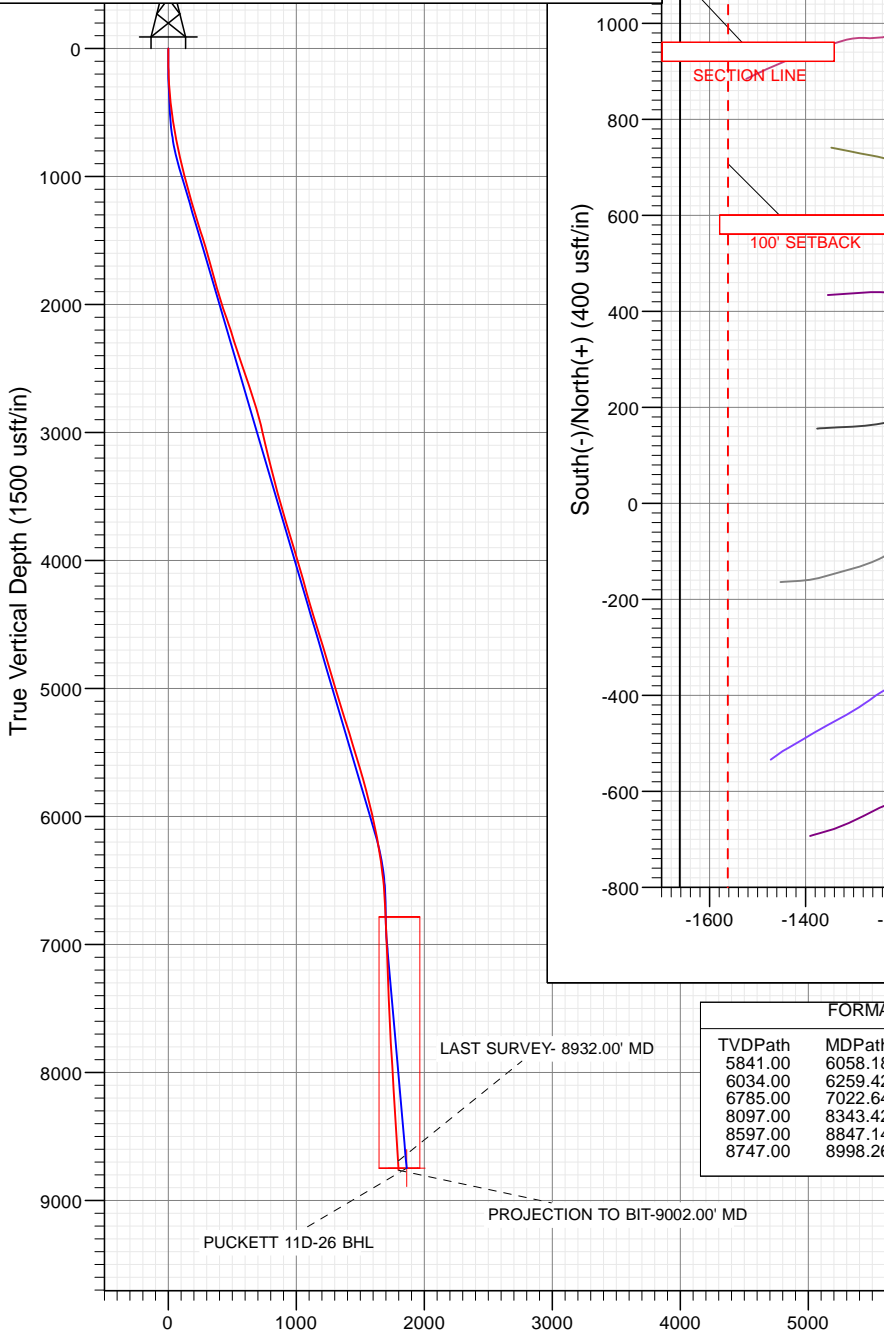




SECTION DETAILS

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	150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	
3	300.00	3.00	345.00	299.93	3.79	-1.02	2.00	345.00	3.79	
4	480.00	3.00	345.00	479.68	12.89	-3.45	0.00	0.00	12.89	
5	945.27	16.45	314.13	937.38	70.81	-54.14	3.00	-37.04	70.81	
6	6374.28	16.45	314.13	6144.16	1141.21	-1157.70	0.00	0.00	1141.21	
7	6922.62	0.00	0.00	6685.00	1195.64	-1213.82	3.00	180.00	1195.64	
8	7271.33	6.97	265.00	7032.85	1193.79	-1234.94	2.00	265.00	1193.79	
9	8998.26	6.97	265.00	8747.00	1175.52	-1443.82	0.00	0.00	1175.52	PUCKETT 11D-26 BHL

OH PUCKETT 11D-26 XXX16; LR 30' KB @ 8322.00ft Ground Level @ 8322.00 NAD 1927 - Western US Well PUCKETT 11D-26, True North									
Type User	Target	No Target (Freehand)	Azimuth	Origin Type	N/S	E/W	From TVD	Latitude	Longitude
Name	PUCKETT 11D-26 BHL		TVD	8747.00	+N/-S	1175.52	-E/-W	-1443.82	39.496325



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5841.00	6058.18	OHIO_CREEK.MBL (TVD)
6034.00	6259.42	WILLIAMS_FORK.MBL (TVD)
6785.00	7022.64	TOP_GAS.MBL (TVD)
8097.00	8343.42	CAMEO.MBL (TVD)
8597.00	8847.14	ROLLINS.MBL (TVD)
8747.00	8998.26	TD.MBL (TVD)



Azimuths to True North
Magnetic North: 9.67°

Magnetic Field
Strength: 51638.6snT
Dip Angle: 65.77°
Date: 3/19/2018
Model: HDGM

Project: Garfield County, CO (UTM 12N)
Site: S26-T6S-R97W (MESA F26) (RIG: HP 330)
Well: PUCKETT 11D-26
Wellbore: OH
Design: OH

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

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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 11D-26					
Well Position	+N/-S	0.00 usft	Northing:	14,354,569.10 usft	Latitude:	39.495099
	+E/-W	0.00 usft	Easting:	2,433,146.50 usft	Longitude:	-108.190214
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	3/19/2018	9.67	65.77	51,638.60000000

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	309.15	

Survey Program	Date	3/26/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
145.00	2,472.00	Survey #1 (OH)	INC+TREND	Inclinometer + known azi trend	
2,622.00	9,002.00	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	
145.00	0.70	318.17	145.00	0.66	-0.59	0.87	0.48	0.48	
174.00	1.23	323.09	173.99	1.04	-0.90	1.35	1.85	1.83	
205.00	1.93	330.38	204.98	1.76	-1.35	2.16	2.34	2.26	
295.00	4.35	339.08	294.84	6.27	-3.32	6.53	2.73	2.69	
386.00	6.55	333.64	385.42	14.14	-6.86	14.25	2.48	2.42	
476.00	7.56	336.98	474.74	24.19	-11.45	24.16	1.21	1.12	
566.00	8.83	330.30	563.82	35.64	-17.19	35.83	1.76	1.41	
660.00	10.42	318.08	656.51	48.23	-26.45	50.96	2.75	1.69	
755.00	11.78	310.08	749.73	60.87	-39.61	69.15	2.16	1.43	
849.00	12.66	305.25	841.60	73.00	-55.36	89.02	1.43	0.94	
943.00	13.67	308.15	933.13	85.80	-72.51	110.40	1.28	1.07	

Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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
1,038.00	14.81	316.32	1,025.22	101.52	-89.73	133.68	2.43	1.20	
1,132.00	16.70	320.72	1,115.69	120.67	-106.58	158.83	2.38	2.01	
1,226.00	16.44	314.39	1,205.79	140.43	-124.63	185.31	1.94	-0.28	
1,321.00	15.86	308.50	1,297.05	157.91	-144.40	211.68	1.83	-0.61	
1,415.00	17.18	311.31	1,387.17	175.07	-164.88	238.40	1.64	1.40	
1,509.00	18.19	311.66	1,476.73	193.99	-186.27	266.93	1.08	1.07	
1,604.00	16.52	311.93	1,567.40	212.87	-207.40	295.24	1.76	-1.76	
1,698.00	14.99	315.35	1,657.86	230.45	-225.89	320.67	1.90	-1.63	
1,792.00	15.29	317.99	1,748.60	248.31	-242.72	345.00	0.80	0.32	
1,887.00	16.04	319.92	1,840.07	267.66	-259.56	370.28	0.96	0.79	
1,981.00	17.31	318.17	1,930.12	288.02	-277.25	396.85	1.45	1.35	
2,076.00	19.34	318.61	2,020.30	310.36	-297.08	426.32	2.14	2.14	
2,170.00	18.72	317.02	2,109.16	333.07	-317.65	456.62	0.86	-0.66	
2,264.00	17.71	314.04	2,198.45	354.04	-338.21	485.81	1.46	-1.07	
2,359.00	17.14	313.77	2,289.09	373.77	-358.71	514.16	0.61	-0.60	
2,472.00	19.25	317.64	2,396.44	399.06	-383.29	549.19	2.15	1.87	
2,622.00	19.12	318.87	2,538.11	435.83	-416.11	597.86	0.28	-0.09	
2,716.00	19.07	317.82	2,626.94	458.81	-436.55	628.21	0.37	-0.05	
2,810.00	17.67	315.27	2,716.15	480.33	-456.90	657.58	1.72	-1.49	
2,905.00	16.39	312.89	2,806.98	499.69	-476.87	685.29	1.53	-1.35	
2,999.00	14.90	310.78	2,897.50	516.61	-495.73	710.60	1.70	-1.59	
3,094.00	13.36	309.20	2,989.62	531.53	-513.49	733.79	1.67	-1.62	
3,188.00	13.10	311.49	3,081.12	545.45	-529.89	755.30	0.62	-0.28	
3,283.00	13.89	312.98	3,173.50	560.36	-546.29	777.43	0.91	0.83	
3,377.00	14.28	312.19	3,264.68	575.83	-563.14	800.26	0.46	0.41	
3,471.00	14.11	309.55	3,355.81	590.92	-580.56	823.30	0.71	-0.18	
3,566.00	14.81	307.97	3,447.80	605.76	-599.06	847.02	0.85	0.74	
3,660.00	15.43	309.29	3,538.54	621.07	-618.21	871.53	0.75	0.66	
3,755.00	16.04	311.66	3,629.98	637.80	-637.80	897.28	0.93	0.64	
3,849.00	17.49	313.51	3,719.99	656.15	-657.75	924.34	1.64	1.54	
3,944.00	17.40	315.88	3,810.62	676.18	-677.99	952.69	0.75	-0.09	
4,038.00	17.31	317.90	3,900.34	696.65	-697.15	980.47	0.65	-0.10	
4,133.00	15.73	317.46	3,991.41	716.62	-715.33	1,007.18	1.67	-1.66	
4,227.00	15.51	316.94	4,081.94	735.19	-732.53	1,032.24	0.28	-0.23	
4,321.00	15.91	317.46	4,172.43	753.87	-749.82	1,057.44	0.45	0.43	
4,416.00	16.61	319.13	4,263.63	773.73	-767.51	1,083.70	0.89	0.74	
4,510.00	16.79	317.82	4,353.67	793.95	-785.42	1,110.35	0.44	0.19	
4,605.00	17.27	316.76	4,444.50	814.39	-804.29	1,137.89	0.60	0.51	
4,699.00	17.01	313.24	4,534.33	833.98	-823.87	1,165.44	1.14	-0.28	
4,793.00	17.31	312.45	4,624.14	852.84	-844.20	1,193.11	0.40	0.32	
4,888.00	17.23	311.05	4,714.86	871.61	-865.24	1,221.29	0.45	-0.08	
4,982.00	16.13	312.01	4,804.91	889.50	-885.44	1,248.24	1.21	-1.17	
5,077.00	15.56	312.81	4,896.30	906.99	-904.59	1,274.14	0.64	-0.60	
5,171.00	16.52	313.95	4,986.64	924.83	-923.47	1,300.04	1.07	1.02	
5,266.00	18.24	313.60	5,077.29	944.46	-943.96	1,328.32	1.81	1.81	
5,360.00	17.67	312.63	5,166.72	964.27	-965.11	1,357.23	0.68	-0.61	
5,454.00	17.14	311.57	5,256.41	983.12	-985.97	1,385.31	0.66	-0.56	
5,549.00	16.70	312.28	5,347.30	1,001.59	-1,006.54	1,412.92	0.51	-0.46	
5,643.00	16.79	312.98	5,437.31	1,019.93	-1,026.46	1,439.96	0.23	0.10	
5,738.00	17.23	315.97	5,528.16	1,039.40	-1,046.28	1,467.62	1.03	0.46	
5,832.00	16.52	315.27	5,618.11	1,058.91	-1,065.36	1,494.73	0.79	-0.76	
5,926.00	15.65	314.56	5,708.43	1,077.30	-1,083.80	1,520.64	0.95	-0.93	
6,021.00	14.77	313.86	5,800.10	1,094.68	-1,101.66	1,545.47	0.95	-0.93	

Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 11D-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 11D-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
6,115.00	14.63	314.04	5,891.03	1,111.24	-1,118.84	1,569.24	0.16	-0.15	
6,209.00	13.14	313.60	5,982.28	1,126.86	-1,135.11	1,591.72	1.59	-1.59	
6,304.00	11.29	314.56	6,075.12	1,140.83	-1,149.56	1,611.74	1.96	-1.95	
6,398.00	10.37	316.23	6,167.45	1,153.40	-1,161.97	1,629.30	1.03	-0.98	
6,492.00	9.54	315.62	6,260.03	1,165.07	-1,173.27	1,645.43	0.89	-0.88	
6,586.00	8.83	317.38	6,352.82	1,175.95	-1,183.60	1,660.32	0.81	-0.76	
6,680.00	6.68	317.02	6,445.96	1,185.26	-1,192.21	1,672.87	2.29	-2.29	
6,774.00	5.58	322.65	6,539.42	1,192.89	-1,198.71	1,682.73	1.33	-1.17	
6,869.00	4.53	331.79	6,634.05	1,199.87	-1,203.29	1,690.69	1.39	-1.11	
6,963.00	2.33	336.98	6,727.88	1,204.90	-1,205.79	1,695.80	2.36	-2.34	
7,057.00	3.08	355.43	6,821.77	1,209.18	-1,206.74	1,699.24	1.21	0.80	
7,151.00	2.68	356.31	6,915.66	1,213.89	-1,207.08	1,702.48	0.43	-0.43	
7,245.00	2.15	336.54	7,009.57	1,217.70	-1,207.93	1,705.54	1.04	-0.56	
7,338.00	2.55	329.24	7,102.50	1,221.08	-1,209.68	1,709.03	0.54	0.43	
7,432.00	2.37	329.33	7,196.41	1,224.54	-1,211.74	1,712.82	0.19	-0.19	
7,713.00	3.03	292.85	7,477.12	1,232.43	-1,221.55	1,725.40	0.64	0.23	
7,994.00	3.78	265.52	7,757.64	1,234.59	-1,237.63	1,739.23	0.63	0.27	
8,373.00	5.14	262.27	8,135.48	1,231.33	-1,266.91	1,759.88	0.36	0.36	
8,655.00	4.22	287.14	8,416.56	1,232.69	-1,289.34	1,778.14	0.78	-0.33	
8,932.00	3.35	277.99	8,692.96	1,236.81	-1,307.10	1,794.52	0.38	-0.31	LAST SURVEY- 8932.00' MD
8,936.00	3.34	277.82	8,696.95	1,236.85	-1,307.33	1,794.72	0.38	-0.29	
9,002.00	3.34	277.82	8,762.84	1,237.37	-1,311.14	1,798.00	0.00	0.00	PROJECTION TO BIT-9002.00' MD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
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
- actual wellpath misses target center by 146.99usft at 8993.35usft MD (8754.21 TVD, 1237.30 N, -1310.64 E)									
- Ellipse (radii L200.00 W100.00 on 265.00 azi)									

Design Annotations

	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/-S (usft)	+E/-W (usft)	
	8,932.00	8,692.96	1,236.81	-1,307.10	LAST SURVEY- 8932.00' MD
	9,002.00	8,762.84	1,237.37	-1,311.14	PROJECTION TO BIT-9002.00' MD

Checked By: _____ Approved By: _____ Date: _____