

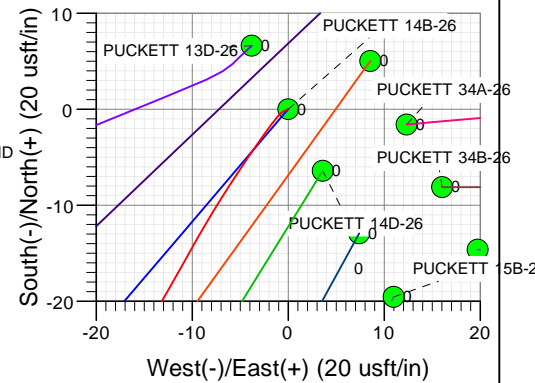
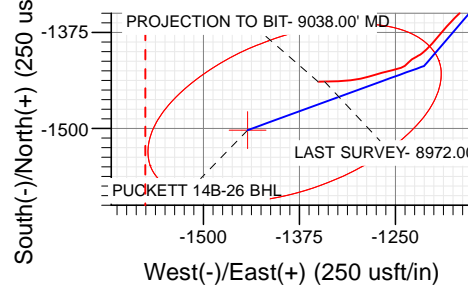
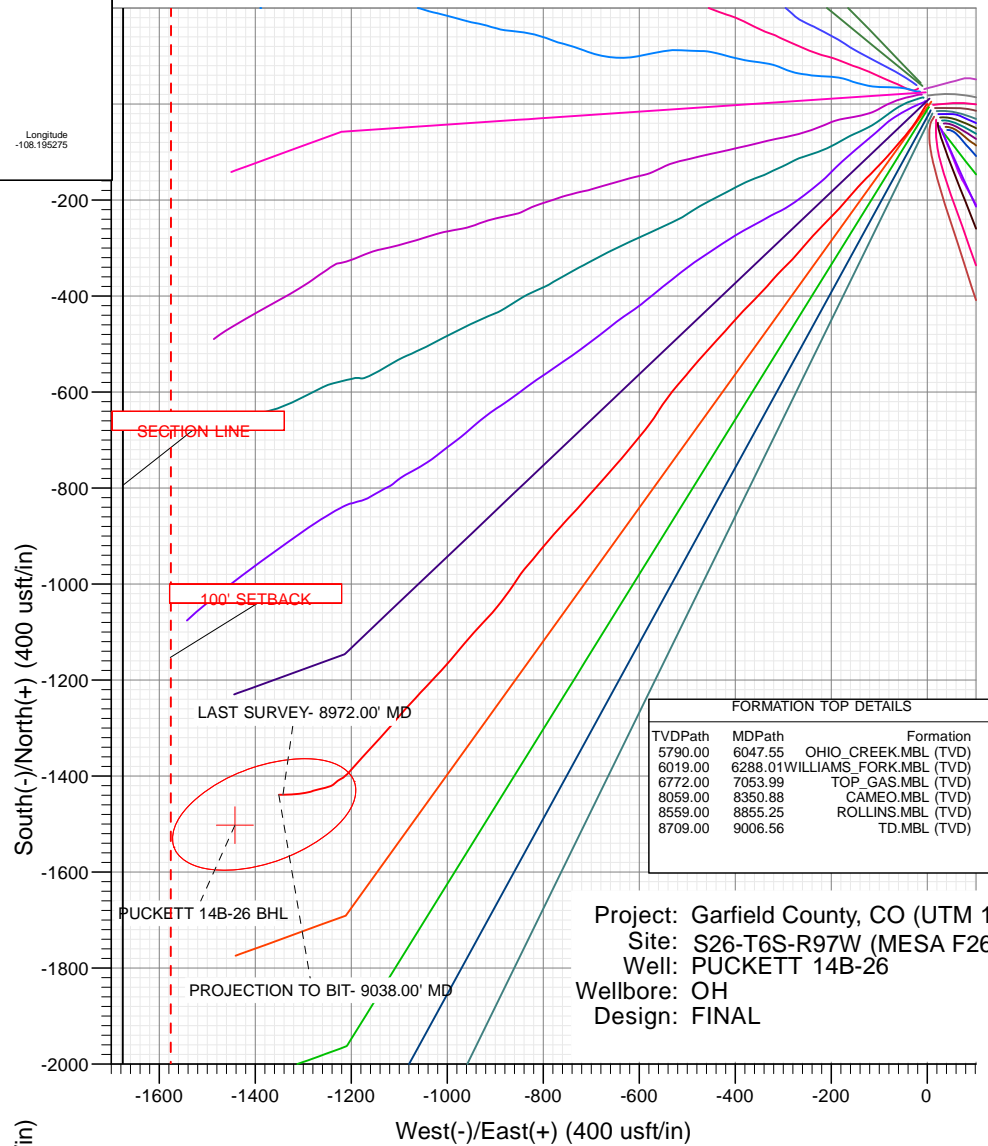
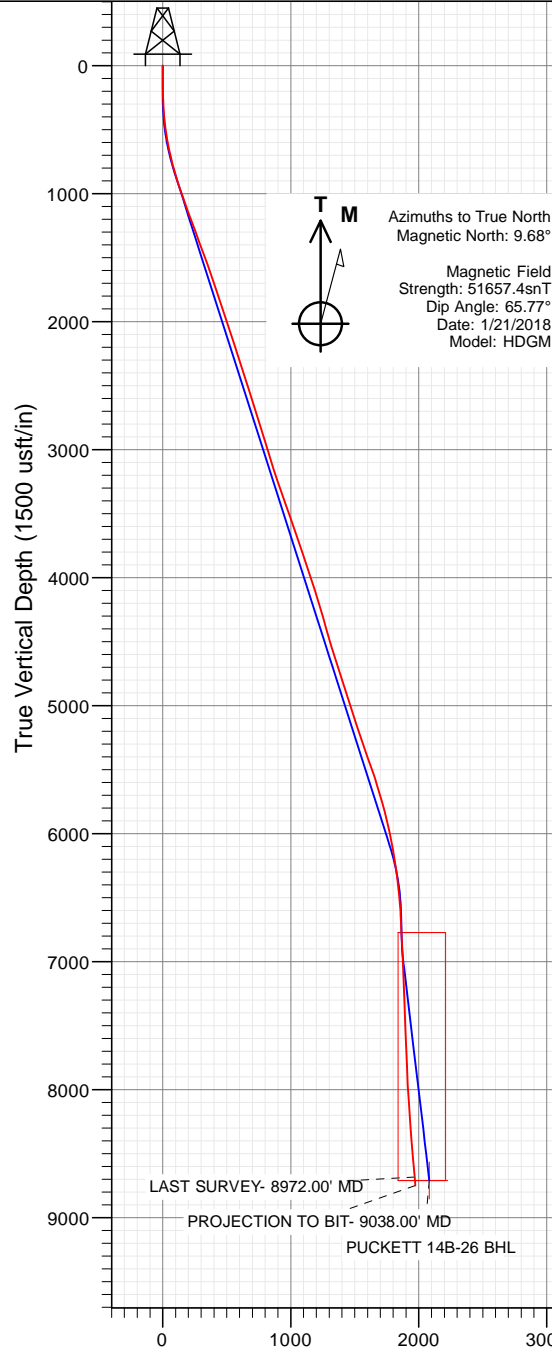


SECTION DETAILS

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	250.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	
3	842.03	17.76	220.52	832.60	-69.20	-59.14	3.00	220.52	90.88	
4	6361.93	17.76	220.52	6089.40	-1349.23	-1153.13	0.00	0.00	1771.89	
5	6953.97	0.00	0.00	6672.00	-1418.43	-1212.27	3.00	180.00	1862.76	
6	7331.17	7.54	250.00	7048.12	-1426.91	-1235.57	2.00	250.00	1885.02	
7	9006.56	7.54	250.00	8709.00	-1502.13	-1442.27	0.00	0.00	2082.44	PUCKETT 14B-26 BHL

FINAL
PUCKETT 14B-26
XXX16; LR
30' KB @ 8322.00ft
Ground Level @ 8322.00
NAD 1927 - Western US
Well PUCKETT 14B-26, True North

Type	Target	Azimuth	Origin Type	N/S	E/W	From TVD
User	No Target (Freehand)	223.84	Spot	0.00	0.00	0.00
Name	PUCKETT 14B-26 BHL	TVD	+N/-S	+E/-W	Latitude	Longitude
		8709.00	-1502.13	-1442.27	39.490855	-108.196275



Vertical Section at 223.84° (1500 usft/in)

WELL DETAILS: PUCKETT 14B-26

+N/-S	+E/-W	Northing	Ground Level:	8322.00	Latitude	Longitude
0.00	0.00	14354525.40	Easting	2433161.40	39.494978	-108.190166

CATHEDRAL



Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 14B-26
Project:	Garfield County, CO (UTM 12N)	TVD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	MD Reference:	30' KB @ 8352.00usft
Well:	PUCKETT 14B-26	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	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), Gravity = 09975g		
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 14B-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:	39.494978
		Longitude:	-108.190166
		Ground Level:	8,322.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	1/21/2018	9.68	65.77	51,657.40000000

Design	FINAL			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth:
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	223.84

Survey Program	Date	1/30/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
175.00	854.00	Survey #1 (OH)	INC+TREND	Inclinometer + known azi trend
949.00	9,038.00	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	
175.00	0.35	246.16	175.00	-0.22	-0.49	0.49	0.20	0.20	
205.00	0.57	233.86	205.00	-0.34	-0.69	0.73	0.80	0.73	
297.00	3.08	215.75	296.94	-2.62	-2.51	3.62	2.77	2.73	
389.00	5.01	213.21	388.71	-7.98	-6.15	10.02	2.11	2.10	
480.00	7.38	208.63	479.17	-16.44	-11.13	19.57	2.66	2.60	
571.00	10.06	211.97	569.11	-28.31	-18.14	32.99	3.00	2.95	
665.00	12.22	214.88	661.34	-43.44	-28.18	50.85	2.37	2.30	
760.00	14.06	219.53	753.85	-60.59	-41.27	72.29	2.23	1.94	
854.00	16.52	221.29	844.52	-79.44	-57.36	97.03	2.66	2.62	
949.00	18.28	220.50	935.17	-100.92	-75.95	125.40	1.87	1.85	
1,043.00	18.72	223.49	1,024.31	-123.08	-95.91	155.20	1.11	0.47	

Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 14B-26
Project:	Garfield County, CO (UTM 12N)	TVD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	MD Reference:	30' KB @ 8352.00usft
Well:	PUCKETT 14B-26	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	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
1,138.00	20.17	224.72	1,113.89	-145.78	-117.92	186.83	1.59	1.53	
1,232.00	20.79	223.66	1,201.95	-169.36	-140.85	219.71	0.77	0.66	
1,327.00	20.13	219.18	1,290.96	-194.23	-162.81	252.87	1.79	-0.69	
1,421.00	19.86	223.31	1,379.30	-218.39	-183.99	284.96	1.53	-0.29	
1,516.00	20.26	225.07	1,468.54	-241.75	-206.70	317.54	0.76	0.42	
1,610.00	21.14	222.96	1,556.47	-265.65	-229.78	350.76	1.23	0.94	
1,705.00	19.03	220.50	1,645.69	-289.97	-251.51	383.35	2.39	-2.22	
1,799.00	17.84	221.20	1,734.86	-312.45	-270.95	413.04	1.29	-1.27	
1,893.00	18.72	225.16	1,824.12	-333.93	-291.13	442.50	1.62	0.94	
1,988.00	17.40	223.31	1,914.44	-355.01	-311.69	471.95	1.51	-1.39	
2,082.00	17.67	219.88	2,004.07	-376.19	-330.47	500.24	1.14	0.29	
2,177.00	19.29	225.16	2,094.18	-398.32	-350.85	530.31	2.45	1.71	
2,271.00	18.50	224.72	2,183.11	-419.86	-372.35	560.75	0.85	-0.84	
2,366.00	17.49	221.55	2,273.47	-441.26	-392.43	590.08	1.48	-1.06	
2,460.00	17.31	222.43	2,363.16	-462.15	-411.23	618.18	0.34	-0.19	
2,505.00	17.53	223.05	2,406.10	-472.05	-420.37	631.65	0.64	0.49	
2,628.00	18.37	221.38	2,523.11	-500.13	-445.83	669.53	0.80	0.68	
2,722.00	18.59	222.17	2,612.27	-522.35	-465.68	699.31	0.35	0.23	
2,816.00	17.18	220.68	2,701.72	-543.98	-484.79	728.15	1.58	-1.50	
2,911.00	16.17	219.53	2,792.73	-564.82	-502.36	755.35	1.12	-1.06	
3,005.00	16.66	221.12	2,882.89	-585.07	-519.55	781.86	0.71	0.52	
3,099.00	17.10	217.07	2,972.85	-606.25	-536.74	809.04	1.34	0.47	
3,194.00	17.14	212.77	3,063.64	-629.16	-552.74	836.65	1.33	0.04	
3,288.00	18.81	214.35	3,153.05	-653.32	-568.79	865.20	1.85	1.78	
3,383.00	19.34	217.95	3,242.84	-678.37	-587.10	895.95	1.36	0.56	
3,477.00	19.56	220.15	3,331.47	-702.68	-606.82	927.14	0.81	0.23	
3,572.00	19.47	219.18	3,421.02	-727.10	-627.08	958.79	0.35	-0.09	
3,666.00	19.03	221.99	3,509.76	-750.64	-647.23	989.72	1.09	-0.47	
3,761.00	19.20	221.29	3,599.53	-773.89	-667.90	1,020.80	0.30	0.18	
3,855.00	19.03	221.91	3,688.34	-796.91	-688.33	1,051.56	0.28	-0.18	
3,950.00	18.37	220.85	3,778.33	-819.76	-708.47	1,081.99	0.78	-0.69	
4,044.00	18.72	222.70	3,867.45	-842.05	-728.39	1,111.86	0.73	0.37	
4,139.00	19.25	222.43	3,957.28	-864.81	-749.29	1,142.76	0.57	0.56	
4,233.00	17.27	221.12	4,046.54	-886.76	-768.93	1,172.19	2.15	-2.11	
4,328.00	17.23	221.29	4,137.27	-907.95	-787.48	1,200.34	0.07	-0.04	
4,422.00	16.17	218.48	4,227.30	-928.66	-804.82	1,227.28	1.42	-1.13	
4,516.00	15.95	221.91	4,317.64	-948.52	-821.59	1,253.22	1.04	-0.23	
4,611.00	16.17	218.92	4,408.93	-968.53	-838.62	1,279.44	0.90	0.23	
4,705.00	16.66	213.47	4,499.10	-989.95	-854.27	1,305.74	1.72	0.52	
4,800.00	17.84	214.79	4,589.83	-1,013.26	-870.09	1,333.51	1.31	1.24	
4,894.00	18.41	217.07	4,679.17	-1,036.93	-887.25	1,362.47	0.97	0.61	
4,989.00	17.89	222.35	4,769.45	-1,059.69	-906.12	1,391.95	1.82	-0.55	
5,083.00	17.14	223.40	4,859.09	-1,080.42	-925.37	1,420.24	0.87	-0.80	
5,178.00	17.75	222.17	4,949.72	-1,101.33	-944.71	1,448.71	0.75	0.64	
5,272.00	17.58	219.18	5,039.29	-1,122.95	-963.30	1,477.18	0.98	-0.18	
5,367.00	18.37	219.88	5,129.65	-1,145.56	-981.96	1,506.42	0.86	0.83	
5,461.00	19.12	222.52	5,218.67	-1,168.27	-1,001.86	1,536.58	1.20	0.80	
5,556.00	19.07	222.35	5,308.44	-1,191.21	-1,022.83	1,567.65	0.08	-0.05	
5,650.00	19.86	223.84	5,397.07	-1,214.08	-1,044.23	1,598.97	0.99	0.84	
5,745.00	19.03	221.99	5,486.65	-1,237.23	-1,065.77	1,630.59	1.09	-0.87	
5,839.00	17.67	222.43	5,575.86	-1,259.15	-1,085.65	1,660.17	1.45	-1.45	
5,933.00	16.66	221.55	5,665.68	-1,279.76	-1,104.22	1,687.90	1.11	-1.07	
6,028.00	15.82	221.12	5,756.89	-1,299.71	-1,121.76	1,714.44	0.89	-0.88	

Cathedral Energy Services

Survey Report

Company:	Caerus Oil & Gas	Local Co-ordinate Reference:	Well PUCKETT 14B-26
Project:	Garfield County, CO (UTM 12N)	TVD Reference:	30' KB @ 8352.00usft
Site:	S26-T6S-R97W (MESA F26)	MD Reference:	30' KB @ 8352.00usft
Well:	PUCKETT 14B-26	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	FINAL	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
6,122.00	14.06	219.80	5,847.70	-1,318.14	-1,137.50	1,738.63	1.91	-1.87	
6,217.00	12.44	222.61	5,940.17	-1,334.53	-1,151.82	1,760.37	1.83	-1.71	
6,311.00	11.91	224.63	6,032.06	-1,348.89	-1,165.48	1,780.19	0.72	-0.56	
6,406.00	10.02	222.87	6,125.32	-1,361.92	-1,178.00	1,798.26	2.02	-1.99	
6,500.00	8.75	221.38	6,218.06	-1,373.28	-1,188.29	1,813.58	1.38	-1.35	
6,594.00	7.65	219.62	6,311.10	-1,383.47	-1,197.00	1,826.96	1.20	-1.17	
6,689.00	6.50	222.96	6,405.37	-1,392.27	-1,204.70	1,838.65	1.29	-1.21	
6,783.00	5.41	228.41	6,498.87	-1,399.11	-1,211.64	1,848.38	1.31	-1.16	
6,878.00	3.96	236.32	6,593.55	-1,403.90	-1,217.72	1,856.05	1.67	-1.53	
6,972.00	2.77	245.72	6,687.38	-1,406.63	-1,222.49	1,861.33	1.39	-1.27	
7,255.00	2.64	222.43	6,970.08	-1,414.26	-1,233.12	1,874.19	0.39	-0.05	
7,539.00	2.20	250.56	7,253.83	-1,420.90	-1,242.68	1,885.60	0.44	-0.15	
7,822.00	2.51	257.85	7,536.59	-1,424.01	-1,253.86	1,895.59	0.15	0.11	
8,106.00	3.08	254.95	7,820.26	-1,427.30	-1,267.30	1,907.27	0.21	0.20	
8,389.00	4.13	251.96	8,102.69	-1,432.43	-1,284.34	1,922.77	0.38	0.37	
8,671.00	5.76	264.18	8,383.64	-1,437.01	-1,308.07	1,942.51	0.69	0.58	
8,972.00	7.25	268.84	8,682.70	-1,438.93	-1,342.09	1,967.46	0.52	0.50	LAST SURVEY- 8972.00' MD
9,038.00	7.25	268.84	8,748.17	-1,439.10	-1,350.42	1,973.35	0.00	0.00	PROJECTION TO BIT- 9038.00' 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 14B-26 BHL	0.00	0.00	8,709.00	-1,502.13	-1,442.27	14,352,979.00	2,431,766.70	39.490855	-108.195275
- actual wellpath misses target center by 114.94usft at 9010.89usft MD (8721.28 TVD, -1439.03 N, -1347.00 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
8,972.00	8,682.70	-1,438.93	-1,342.09	LAST SURVEY- 8972.00' MD
9,038.00	8,748.17	-1,439.10	-1,350.42	PROJECTION TO BIT- 9038.00' MD

Checked By: _____ Approved By: _____ Date: _____