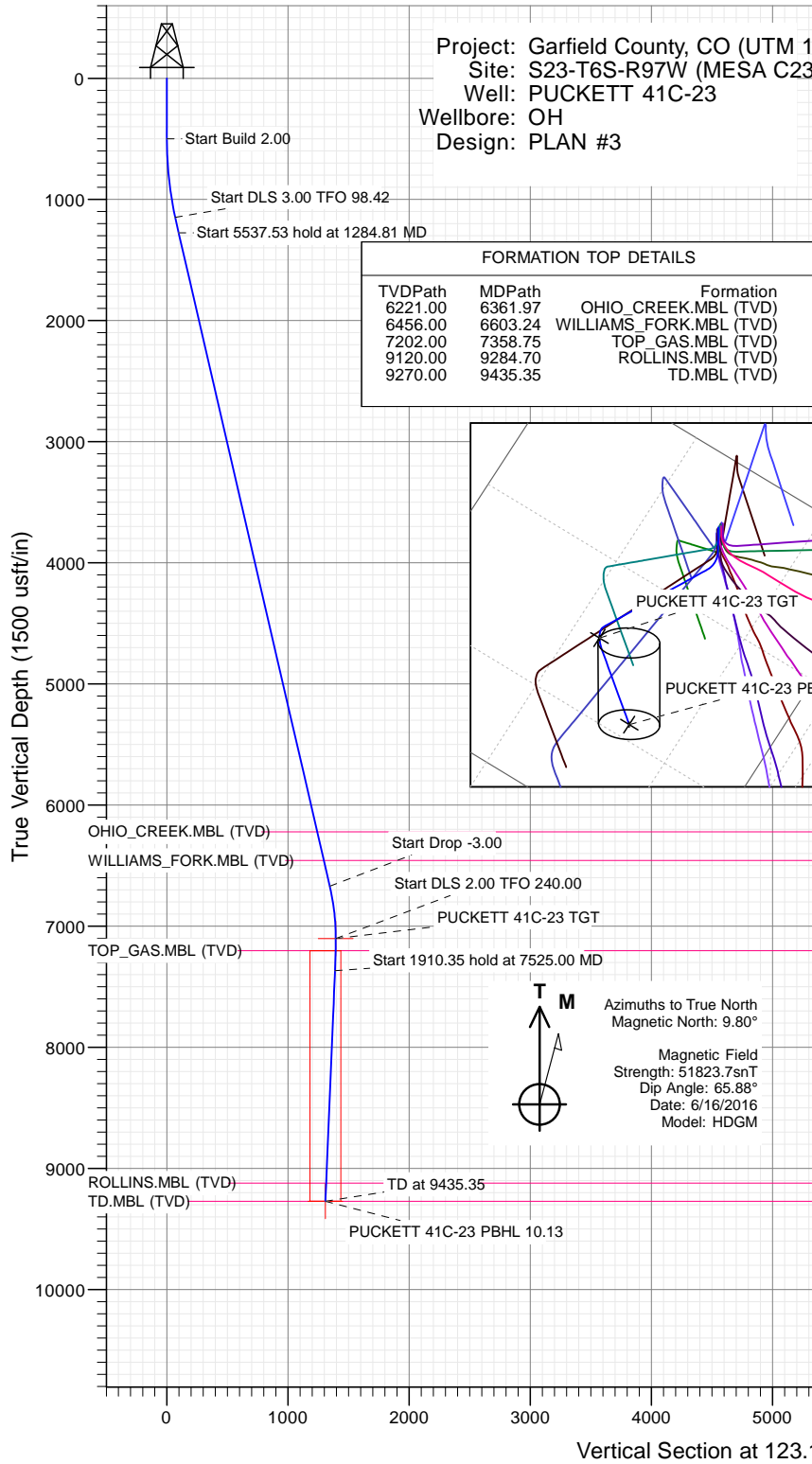




SECTION DETAILS

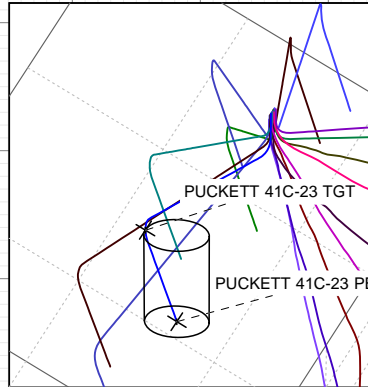
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	
3	1154.50	13.09	100.00	1148.82	-12.93	73.31	2.00	100.00	68.44	
4	1284.81	13.09	117.32	1275.80	-22.27	100.96	3.00	98.42	96.70	
5	6822.34	13.09	117.32	6669.41	-597.99	1215.31	0.00	0.00	1344.48	
6	7258.72	0.00	0.00	7102.00	-620.77	1259.41	3.00	180.00	1393.86	PUCKETT 41C-23 TGT
7	7525.00	5.33	240.00	7367.90	-626.96	1248.70	2.00	240.00	1388.27	
8	9435.35	5.33	240.00	9270.00	-715.61	1095.15	0.00	0.00	1308.22	PUCKETT 41C-23 PBHL 10.13

Project: Garfield County, CO (UTM 1
Site: S23-T6S-R97W (MESA C23)
Well: PUCKETT 41C-23
Wellbore: OH
Design: PLAN #3



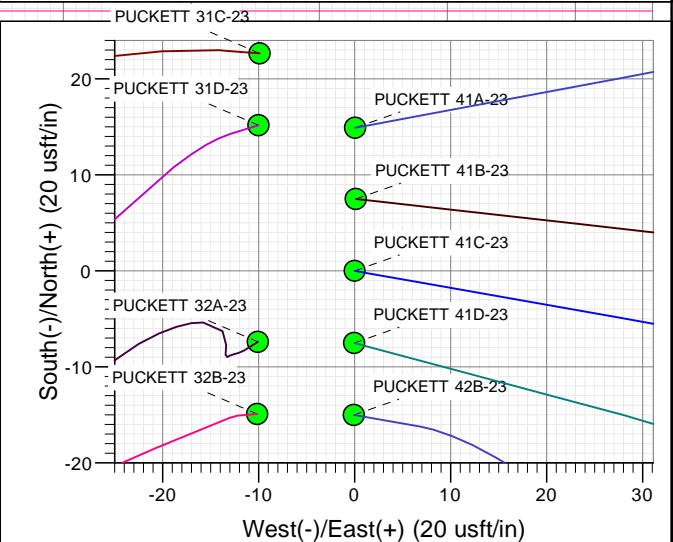
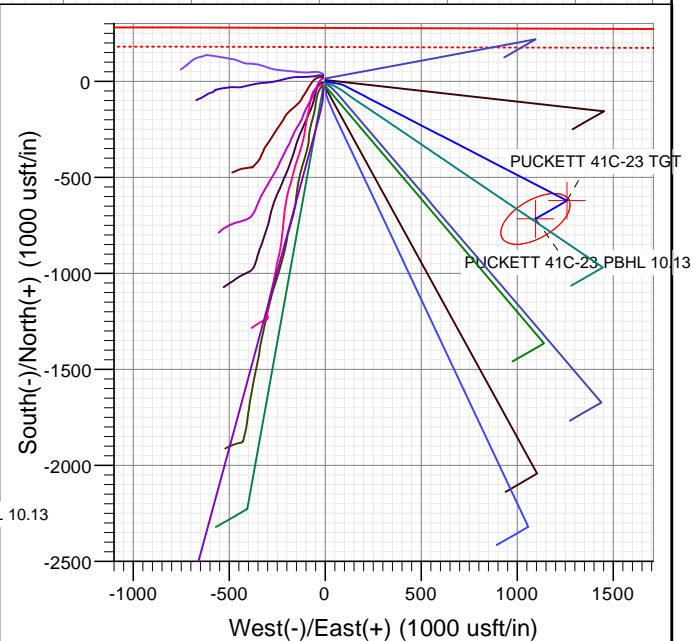
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
6221.00	6361.97	OHIO_CREEK.MBL (TVD)
6456.00	6603.24	WILLIAMS_FORK.MBL (TVD)
7202.00	7358.75	TOP_GAS.MBL (TVD)
9120.00	9284.70	ROLLINS.MBL (TVD)
9270.00	9435.35	TD.MBL (TVD)



PLAN #3
PUCKETT 41C-23
16XXX LR
30' KB @ 8532.00usft (H&P 330)
Ground Level @ 8532.00
NAD 1927 - Western US
Well PUCKETT 41C-23, True North

Name	Type	TD	Target	No Target (Freehand)	Azimuth	Origin	Type	Slot	N/S	E/W	From	TVD	Latitude	Longitude
PUCKETT 41C-23 TGT		7102.00			123.16								39.513281	-108.179414
PUCKETT 41C-23 PBHL		9270.00											39.514009	-108.178666
PUCKETT 41C-23 PBHL 10.13		9270.00											39.513021	-108.179996



WELL DETAILS: PUCKETT 41C-23

+N/-S	+E/-W	Northing	Ground Level:	8532.00	Latitude	Longitude
0.00	0.00	14361867.00	Easting	2434708.20	39.514985	-108.183877

CATHEDRAL





Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41C-23
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8562.00usft (H&P 330)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8562.00usft (H&P 330)
Site:	S23-T6S-R97W (MESA C23)	North Reference:	True
Well:	PUCKETT 41C-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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		S23-T6S-R97W (MESA C23)			
Site Position:		Northing:	14,361,896.90 usft	Latitude:	39.515068
From:	Map	Easting:	2,434,697.40 usft	Longitude:	-108.183912
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.79 °

Well	PUCKETT 41C-23					
Well Position	+N/-S	0.00 usft	Northing:	14,361,867.00 usft	Latitude:	39.514985
	+E/-W	0.00 usft	Easting:	2,434,708.20 usft	Longitude:	-108.183877
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	8,532.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/16/2016	9.80	65.88	51,824

Design	PLAN #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	123.16

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,154.50	13.09	100.00	1,148.82	-12.93	73.31	2.00	2.00	0.00	100.00	
1,284.81	13.09	117.32	1,275.80	-22.27	100.96	3.00	0.00	13.29	98.42	
6,822.34	13.09	117.32	6,669.41	-597.99	1,215.31	0.00	0.00	0.00	0.00	
7,258.72	0.00	0.00	7,102.00	-620.77	1,259.41	3.00	-3.00	0.00	180.00	PUCKETT 41C-23 TC
7,525.00	5.33	240.00	7,367.90	-626.96	1,248.70	2.00	2.00	-45.07	240.00	
9,435.35	5.33	240.00	9,270.00	-715.61	1,095.15	0.00	0.00	0.00	0.00	PUCKETT 41C-23 PE



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41C-23
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8562.00usft (H&P 330)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8562.00usft (H&P 330)
Site:	S23-T6S-R97W (MESA C23)	North Reference:	True
Well:	PUCKETT 41C-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00
600.00	2.00	100.00	599.98	-0.30	1.72	1.60	2.00	2.00	
700.00	4.00	100.00	699.84	-1.21	6.87	6.42	2.00	2.00	
800.00	6.00	100.00	799.45	-2.73	15.46	14.43	2.00	2.00	
900.00	8.00	100.00	898.70	-4.84	27.46	25.63	2.00	2.00	
1,000.00	10.00	100.00	997.47	-7.56	42.86	40.01	2.00	2.00	
1,100.00	12.00	100.00	1,095.62	-10.87	61.65	57.56	2.00	2.00	
1,154.50	13.09	100.00	1,148.82	-12.93	73.31	68.44	2.00	2.00	Start DLS 3.00 TFO 98.42
1,200.00	12.96	106.03	1,193.15	-15.23	83.29	78.05	3.00	-0.29	
1,284.81	13.09	117.32	1,275.80	-22.27	100.96	96.70	3.00	0.16	Start 5537.53 hold at 1284.81 MD
1,300.00	13.09	117.32	1,290.59	-23.85	104.02	100.12	0.00	0.00	
1,400.00	13.09	117.32	1,387.99	-34.24	124.14	122.66	0.00	0.00	
1,500.00	13.09	117.32	1,485.39	-44.64	144.27	145.19	0.00	0.00	
1,600.00	13.09	117.32	1,582.79	-55.04	164.39	167.72	0.00	0.00	
1,700.00	13.09	117.32	1,680.19	-65.43	184.51	190.25	0.00	0.00	
1,800.00	13.09	117.32	1,777.59	-75.83	204.64	212.79	0.00	0.00	
1,900.00	13.09	117.32	1,875.00	-86.23	224.76	235.32	0.00	0.00	
2,000.00	13.09	117.32	1,972.40	-96.62	244.89	257.85	0.00	0.00	
2,100.00	13.09	117.32	2,069.80	-107.02	265.01	280.39	0.00	0.00	
2,200.00	13.09	117.32	2,167.20	-117.42	285.13	302.92	0.00	0.00	
2,300.00	13.09	117.32	2,264.60	-127.81	305.26	325.45	0.00	0.00	
2,400.00	13.09	117.32	2,362.00	-138.21	325.38	347.99	0.00	0.00	
2,500.00	13.09	117.32	2,459.40	-148.61	345.50	370.52	0.00	0.00	
2,600.00	13.09	117.32	2,556.80	-159.00	365.63	393.05	0.00	0.00	
2,700.00	13.09	117.32	2,654.20	-169.40	385.75	415.59	0.00	0.00	
2,800.00	13.09	117.32	2,751.60	-179.80	405.87	438.12	0.00	0.00	
2,900.00	13.09	117.32	2,849.00	-190.19	426.00	460.65	0.00	0.00	
3,000.00	13.09	117.32	2,946.41	-200.59	446.12	483.18	0.00	0.00	
3,100.00	13.09	117.32	3,043.81	-210.99	466.24	505.72	0.00	0.00	
3,200.00	13.09	117.32	3,141.21	-221.38	486.37	528.25	0.00	0.00	
3,300.00	13.09	117.32	3,238.61	-231.78	506.49	550.78	0.00	0.00	
3,400.00	13.09	117.32	3,336.01	-242.18	526.61	573.32	0.00	0.00	
3,500.00	13.09	117.32	3,433.41	-252.57	546.74	595.85	0.00	0.00	
3,600.00	13.09	117.32	3,530.81	-262.97	566.86	618.38	0.00	0.00	
3,700.00	13.09	117.32	3,628.21	-273.37	586.99	640.92	0.00	0.00	
3,800.00	13.09	117.32	3,725.61	-283.76	607.11	663.45	0.00	0.00	
3,900.00	13.09	117.32	3,823.01	-294.16	627.23	685.98	0.00	0.00	
4,000.00	13.09	117.32	3,920.42	-304.56	647.36	708.52	0.00	0.00	
4,100.00	13.09	117.32	4,017.82	-314.96	667.48	731.05	0.00	0.00	
4,200.00	13.09	117.32	4,115.22	-325.35	687.60	753.58	0.00	0.00	
4,300.00	13.09	117.32	4,212.62	-335.75	707.73	776.11	0.00	0.00	
4,400.00	13.09	117.32	4,310.02	-346.15	727.85	798.65	0.00	0.00	
4,500.00	13.09	117.32	4,407.42	-356.54	747.97	821.18	0.00	0.00	
4,600.00	13.09	117.32	4,504.82	-366.94	768.10	843.71	0.00	0.00	
4,700.00	13.09	117.32	4,602.22	-377.34	788.22	866.25	0.00	0.00	
4,800.00	13.09	117.32	4,699.62	-387.73	808.34	888.78	0.00	0.00	
4,900.00	13.09	117.32	4,797.02	-398.13	828.47	911.31	0.00	0.00	



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41C-23
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8562.00usft (H&P 330)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8562.00usft (H&P 330)
Site:	S23-T6S-R97W (MESA C23)	North Reference:	True
Well:	PUCKETT 41C-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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	13.09	117.32	4,894.43	-408.53	848.59	933.85	0.00	0.00	
5,100.00	13.09	117.32	4,991.83	-418.92	868.72	956.38	0.00	0.00	
5,200.00	13.09	117.32	5,089.23	-429.32	888.84	978.91	0.00	0.00	
5,300.00	13.09	117.32	5,186.63	-439.72	908.96	1,001.45	0.00	0.00	
5,400.00	13.09	117.32	5,284.03	-450.11	929.09	1,023.98	0.00	0.00	
5,500.00	13.09	117.32	5,381.43	-460.51	949.21	1,046.51	0.00	0.00	
5,600.00	13.09	117.32	5,478.83	-470.91	969.33	1,069.04	0.00	0.00	
5,700.00	13.09	117.32	5,576.23	-481.30	989.46	1,091.58	0.00	0.00	
5,800.00	13.09	117.32	5,673.63	-491.70	1,009.58	1,114.11	0.00	0.00	
5,900.00	13.09	117.32	5,771.03	-502.10	1,029.70	1,136.64	0.00	0.00	
6,000.00	13.09	117.32	5,868.44	-512.49	1,049.83	1,159.18	0.00	0.00	
6,100.00	13.09	117.32	5,965.84	-522.89	1,069.95	1,181.71	0.00	0.00	
6,200.00	13.09	117.32	6,063.24	-533.29	1,090.07	1,204.24	0.00	0.00	
6,300.00	13.09	117.32	6,160.64	-543.68	1,110.20	1,226.78	0.00	0.00	
6,361.97	13.09	117.32	6,221.00	-550.13	1,122.67	1,240.74	0.00	0.00	OHIO_CREEK.MBL (TVD)
6,400.00	13.09	117.32	6,258.04	-554.08	1,130.32	1,249.31	0.00	0.00	
6,500.00	13.09	117.32	6,355.44	-564.48	1,150.44	1,271.84	0.00	0.00	
6,600.00	13.09	117.32	6,452.84	-574.87	1,170.57	1,294.38	0.00	0.00	
6,603.24	13.09	117.32	6,456.00	-575.21	1,171.22	1,295.11	0.00	0.00	WILLIAMS_FORK.MBL (TVD)
6,700.00	13.09	117.32	6,550.24	-585.27	1,190.69	1,316.91	0.00	0.00	
6,800.00	13.09	117.32	6,647.64	-595.67	1,210.82	1,339.44	0.00	0.00	
6,822.34	13.09	117.32	6,669.41	-597.99	1,215.31	1,344.48	0.00	0.00	Start Drop -3.00
6,900.00	10.76	117.32	6,745.38	-605.36	1,229.57	1,360.44	3.00	-3.00	
7,000.00	7.76	117.32	6,844.07	-612.74	1,243.87	1,376.45	3.00	-3.00	
7,100.00	4.76	117.32	6,943.46	-617.75	1,253.56	1,387.30	3.00	-3.00	
7,200.00	1.76	117.32	7,043.28	-620.36	1,258.61	1,392.96	3.00	-3.00	
7,258.72	0.00	0.00	7,102.00	-620.77	1,259.41	1,393.86	3.00	-3.00	Start DLS 2.00 TFO 240.00
7,300.00	0.83	240.00	7,143.27	-620.92	1,259.15	1,393.72	2.00	2.00	
7,358.75	2.00	240.00	7,202.00	-621.65	1,257.90	1,393.07	2.00	2.00	TOP_GAS.MBL (TVD)
7,400.00	2.83	240.00	7,243.22	-622.52	1,256.40	1,392.28	2.00	2.00	
7,500.00	4.83	240.00	7,342.99	-625.85	1,250.62	1,389.27	2.00	2.00	
7,525.00	5.33	240.00	7,367.90	-626.96	1,248.70	1,388.27	2.00	2.00	Start 1910.35 hold at 7525.00 MD
7,600.00	5.33	240.00	7,442.57	-630.44	1,242.67	1,385.13	0.00	0.00	
7,700.00	5.33	240.00	7,542.14	-635.08	1,234.64	1,380.94	0.00	0.00	
7,800.00	5.33	240.00	7,641.70	-639.72	1,226.60	1,376.75	0.00	0.00	
7,900.00	5.33	240.00	7,741.27	-644.36	1,218.56	1,372.56	0.00	0.00	
8,000.00	5.33	240.00	7,840.84	-649.00	1,210.52	1,368.37	0.00	0.00	
8,100.00	5.33	240.00	7,940.41	-653.64	1,202.48	1,364.18	0.00	0.00	
8,200.00	5.33	240.00	8,039.98	-658.28	1,194.45	1,359.99	0.00	0.00	
8,300.00	5.33	240.00	8,139.55	-662.92	1,186.41	1,355.80	0.00	0.00	
8,400.00	5.33	240.00	8,239.11	-667.56	1,178.37	1,351.61	0.00	0.00	
8,500.00	5.33	240.00	8,338.68	-672.21	1,170.33	1,347.42	0.00	0.00	
8,600.00	5.33	240.00	8,438.25	-676.85	1,162.29	1,343.23	0.00	0.00	
8,700.00	5.33	240.00	8,537.82	-681.49	1,154.26	1,339.04	0.00	0.00	
8,800.00	5.33	240.00	8,637.39	-686.13	1,146.22	1,334.85	0.00	0.00	
8,900.00	5.33	240.00	8,736.96	-690.77	1,138.18	1,330.66	0.00	0.00	
9,000.00	5.33	240.00	8,836.52	-695.41	1,130.14	1,326.47	0.00	0.00	
9,100.00	5.33	240.00	8,936.09	-700.05	1,122.10	1,322.28	0.00	0.00	
9,200.00	5.33	240.00	9,035.66	-704.69	1,114.07	1,318.09	0.00	0.00	
9,284.70	5.33	240.00	9,120.00	-708.62	1,107.26	1,314.54	0.00	0.00	ROLLINS.MBL (TVD)
9,300.00	5.33	240.00	9,135.23	-709.33	1,106.03	1,313.90	0.00	0.00	
9,400.00	5.33	240.00	9,234.80	-713.97	1,097.99	1,309.71	0.00	0.00	



Cathedral Energy Services

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 41C-23
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8562.00usft (H&P 330)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8562.00usft (H&P 330)
Site:	S23-T6S-R97W (MESA C23)	North Reference:	True
Well:	PUCKETT 41C-23	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #3		

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
9,435.35	5.33	240.00	9,270.00	-715.61	1,095.15	1,308.22	0.00	0.00	TD at 9435.35 - TD.MBL (TVD)

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PUCKETT 41C-23 PBHI - plan misses target center by 518.34usft at 9388.45usft MD (9223.29 TVD, -713.44 N, 1098.92 E) - Circle (radius 100.00)	0.00	0.00	9,270.00	-355.29	1,470.70	14,361,557.90	2,436,189.30	39.514009	-108.178666
PUCKETT 41C-23 PBHI - plan hits target center - Ellipse (radii L200.00 W100.00 on 240.00 azi)	0.00	0.00	9,270.00	-715.61	1,095.15	14,361,186.00	2,435,825.20	39.513021	-108.179996
PUCKETT 41C-23 TGT - plan hits target center - Point	0.00	0.00	7,102.00	-620.77	1,259.41	14,361,285.93	2,435,986.42	39.513281	-108.179414

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
6,361.97	6,221.00	OHIO_CREEK.MBL (TVD)			
6,603.24	6,456.00	WILLIAMS_FORK.MBL (TVD)			
7,358.75	7,202.00	TOP_GAS.MBL (TVD)			
9,284.70	9,120.00	ROLLINS.MBL (TVD)			
9,435.35	9,270.00	TD.MBL (TVD)			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	Start Build 2.00
1,154.50	1,148.82	-12.93	73.31	Start DLS 3.00 TFO 98.42
1,284.81	1,275.80	-22.27	100.96	Start 5537.53 hold at 1284.81 MD
6,822.34	6,669.41	-597.99	1,215.31	Start Drop -3.00
7,258.72	7,102.00	-620.77	1,259.41	Start DLS 2.00 TFO 240.00
7,525.00	7,367.90	-626.96	1,248.70	Start 1910.35 hold at 7525.00 MD
9,435.35	9,270.00	-715.61	1,095.15	TD at 9435.35