



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 11C-1
Company:	Caerus Oil & Gas	TVD Reference:	30' KB @ 8358.6usft (H&P 330)
Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8358.6usft (H&P 330)
Site:	S1-T7S-R97W (MESA E1-797)	North Reference:	True
Well:	PUCKETT 11C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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		S1-T7S-R97W (MESA E1-797)			
Site Position:		Northing:	14,347,813.50 usft	Latitude:	39.476123
From:	Map	Easting:	2,438,328.90 usft	Longitude:	-108.172618
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.80 °

Well	PUCKETT 11C-1					
Well Position	+N/-S	0.0 usft	Northing:	14,347,792.20 usft	Latitude:	39.476065
	+E/-W	0.0 usft	Easting:	2,438,317.80 usft	Longitude:	-108.172659
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	8,328.6 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	6/26/2015	9.85	65.82	51,931

Design	PLAN #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	325.72

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.00	0.00	
737.5	14.62	325.72	732.2	51.1	-34.9	3.00	3.00	0.00	325.72	
6,504.5	14.62	325.72	6,312.4	1,254.2	-855.0	0.00	0.00	0.00	0.00	
6,992.0	0.00	0.00	6,794.6	1,305.3	-889.9	3.00	-3.00	0.00	180.00	
8,993.0	0.00	0.00	8,795.6	1,305.3	-889.9	0.00	0.00	0.00	0.00	PUCKETT 11C-1 PB+

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Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8358.6usft (H&P 330)
Site:	S1-T7S-R97W (MESA E1-797)	North Reference:	True
Well:	PUCKETT 11C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	
250.0	0.00	0.00	250.0	0.0	0.0	0.0	0.00	0.00	KOP @ 250' MD
300.0	1.50	325.72	300.0	0.5	-0.4	0.7	3.00	3.00	
400.0	4.50	325.72	399.8	4.9	-3.3	5.9	3.00	3.00	
500.0	7.50	325.72	499.3	13.5	-9.2	16.3	3.00	3.00	
600.0	10.50	325.72	598.0	26.4	-18.0	32.0	3.00	3.00	
700.0	13.50	325.72	695.8	43.6	-29.7	52.8	3.00	3.00	
737.5	14.62	325.72	732.2	51.1	-34.9	61.9	3.00	3.00	EOB; INC=14.62°
800.0	14.62	325.72	792.7	64.2	-43.7	77.7	0.00	0.00	
900.0	14.62	325.72	889.5	85.0	-58.0	102.9	0.00	0.00	
1,000.0	14.62	325.72	986.2	105.9	-72.2	128.2	0.00	0.00	
1,100.0	14.62	325.72	1,083.0	126.7	-86.4	153.4	0.00	0.00	
1,200.0	14.62	325.72	1,179.7	147.6	-100.6	178.6	0.00	0.00	
1,300.0	14.62	325.72	1,276.5	168.5	-114.9	203.9	0.00	0.00	
1,400.0	14.62	325.72	1,373.3	189.3	-129.1	229.1	0.00	0.00	
1,500.0	14.62	325.72	1,470.0	210.2	-143.3	254.4	0.00	0.00	
1,600.0	14.62	325.72	1,566.8	231.1	-157.5	279.6	0.00	0.00	
1,700.0	14.62	325.72	1,663.5	251.9	-171.7	304.9	0.00	0.00	
1,800.0	14.62	325.72	1,760.3	272.8	-186.0	330.1	0.00	0.00	
1,900.0	14.62	325.72	1,857.1	293.6	-200.2	355.4	0.00	0.00	
2,000.0	14.62	325.72	1,953.8	314.5	-214.4	380.6	0.00	0.00	
2,100.0	14.62	325.72	2,050.6	335.4	-228.6	405.9	0.00	0.00	
2,200.0	14.62	325.72	2,147.3	356.2	-242.8	431.1	0.00	0.00	
2,300.0	14.62	325.72	2,244.1	377.1	-257.1	456.4	0.00	0.00	
2,400.0	14.62	325.72	2,340.9	397.9	-271.3	481.6	0.00	0.00	
2,500.0	14.62	325.72	2,437.6	418.8	-285.5	506.9	0.00	0.00	
2,600.0	14.62	325.72	2,534.4	439.7	-299.7	532.1	0.00	0.00	
2,700.0	14.62	325.72	2,631.1	460.5	-314.0	557.4	0.00	0.00	
2,800.0	14.62	325.72	2,727.9	481.4	-328.2	582.6	0.00	0.00	
2,900.0	14.62	325.72	2,824.7	502.2	-342.4	607.8	0.00	0.00	
3,000.0	14.62	325.72	2,921.4	523.1	-356.6	633.1	0.00	0.00	
3,100.0	14.62	325.72	3,018.2	544.0	-370.8	658.3	0.00	0.00	
3,200.0	14.62	325.72	3,115.0	564.8	-385.1	683.6	0.00	0.00	
3,300.0	14.62	325.72	3,211.7	585.7	-399.3	708.8	0.00	0.00	
3,400.0	14.62	325.72	3,308.5	606.5	-413.5	734.1	0.00	0.00	
3,500.0	14.62	325.72	3,405.2	627.4	-427.7	759.3	0.00	0.00	
3,600.0	14.62	325.72	3,502.0	648.3	-442.0	784.6	0.00	0.00	
3,700.0	14.62	325.72	3,598.8	669.1	-456.2	809.8	0.00	0.00	
3,800.0	14.62	325.72	3,695.5	690.0	-470.4	835.1	0.00	0.00	
3,900.0	14.62	325.72	3,792.3	710.8	-484.6	860.3	0.00	0.00	
4,000.0	14.62	325.72	3,889.0	731.7	-498.8	885.6	0.00	0.00	
4,100.0	14.62	325.72	3,985.8	752.6	-513.1	910.8	0.00	0.00	
4,200.0	14.62	325.72	4,082.6	773.4	-527.3	936.1	0.00	0.00	
4,300.0	14.62	325.72	4,179.3	794.3	-541.5	961.3	0.00	0.00	
4,400.0	14.62	325.72	4,276.1	815.1	-555.7	986.6	0.00	0.00	
4,436.7	14.62	325.72	4,311.6	822.8	-560.9	995.8	0.00	0.00	WASATCH_G_ZONE.MBL (SSTVD)
4,500.0	14.62	325.72	4,372.8	836.0	-569.9	1,011.8	0.00	0.00	
4,600.0	14.62	325.72	4,469.6	856.9	-584.2	1,037.0	0.00	0.00	
4,700.0	14.62	325.72	4,566.4	877.7	-598.4	1,062.3	0.00	0.00	
4,743.7	14.62	325.72	4,608.6	886.8	-604.6	1,073.3	0.00	0.00	FORT_UNION.MBL (SSTVD)

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Site:	S1-T7S-R97W (MESA E1-797)	North Reference:	True
Well:	PUCKETT 11C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

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
4,800.0	14.62	325.72	4,663.1	898.6	-612.6	1,087.5	0.00	0.00	
4,900.0	14.62	325.72	4,759.9	919.4	-626.8	1,112.8	0.00	0.00	
5,000.0	14.62	325.72	4,856.6	940.3	-641.1	1,138.0	0.00	0.00	
5,100.0	14.62	325.72	4,953.4	961.2	-655.3	1,163.3	0.00	0.00	
5,200.0	14.62	325.72	5,050.2	982.0	-669.5	1,188.5	0.00	0.00	
5,300.0	14.62	325.72	5,146.9	1,002.9	-683.7	1,213.8	0.00	0.00	
5,400.0	14.62	325.72	5,243.7	1,023.7	-697.9	1,239.0	0.00	0.00	
5,500.0	14.62	325.72	5,340.4	1,044.6	-712.2	1,264.3	0.00	0.00	
5,600.0	14.62	325.72	5,437.2	1,065.5	-726.4	1,289.5	0.00	0.00	
5,700.0	14.62	325.72	5,534.0	1,086.3	-740.6	1,314.8	0.00	0.00	
5,800.0	14.62	325.72	5,630.7	1,107.2	-754.8	1,340.0	0.00	0.00	
5,900.0	14.62	325.72	5,727.5	1,128.0	-769.0	1,365.3	0.00	0.00	
5,977.6	14.62	325.72	5,802.6	1,144.2	-780.1	1,384.9	0.00	0.00	OHIO_CREEK.MBL (SSTVD)
6,000.0	14.62	325.72	5,824.2	1,148.9	-783.3	1,390.5	0.00	0.00	
6,100.0	14.62	325.72	5,921.0	1,169.8	-797.5	1,415.8	0.00	0.00	
6,200.0	14.62	325.72	6,017.8	1,190.6	-811.7	1,441.0	0.00	0.00	
6,222.6	14.62	325.72	6,039.6	1,195.3	-814.9	1,446.7	0.00	0.00	WILLIAMS_FORK.MBL (SSTVD)
6,300.0	14.62	325.72	6,114.5	1,211.5	-825.9	1,466.2	0.00	0.00	
6,400.0	14.62	325.72	6,211.3	1,232.3	-840.2	1,491.5	0.00	0.00	
6,500.0	14.62	325.72	6,308.0	1,253.2	-854.4	1,516.7	0.00	0.00	
6,504.5	14.62	325.72	6,312.4	1,254.2	-855.0	1,517.9	0.00	0.00	Start Drop -3.00
6,600.0	11.76	325.72	6,405.4	1,272.2	-867.3	1,539.7	3.00	-3.00	
6,700.0	8.76	325.72	6,503.8	1,286.9	-877.3	1,557.5	3.00	-3.00	
6,800.0	5.76	325.72	6,602.9	1,297.3	-884.4	1,570.1	3.00	-3.00	
6,900.0	2.76	325.72	6,702.7	1,303.4	-888.6	1,577.5	3.00	-3.00	
6,992.0	0.00	0.00	6,794.6	1,305.3	-889.9	1,579.7	3.00	-3.00	EOD; INC=0°
7,000.0	0.00	0.00	6,802.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,092.0	0.00	0.00	6,894.6	1,305.3	-889.9	1,579.7	0.00	0.00	TOP_GAS.MBL (SSTVD)
7,100.0	0.00	0.00	6,902.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,200.0	0.00	0.00	7,002.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,300.0	0.00	0.00	7,102.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,400.0	0.00	0.00	7,202.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,500.0	0.00	0.00	7,302.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,600.0	0.00	0.00	7,402.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,700.0	0.00	0.00	7,502.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,800.0	0.00	0.00	7,602.6	1,305.3	-889.9	1,579.7	0.00	0.00	
7,900.0	0.00	0.00	7,702.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,000.0	0.00	0.00	7,802.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,100.0	0.00	0.00	7,902.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,200.0	0.00	0.00	8,002.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,300.0	0.00	0.00	8,102.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,400.0	0.00	0.00	8,202.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,500.0	0.00	0.00	8,302.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,600.0	0.00	0.00	8,402.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,700.0	0.00	0.00	8,502.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,800.0	0.00	0.00	8,602.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,843.0	0.00	0.00	8,645.6	1,305.3	-889.9	1,579.7	0.00	0.00	ROLLINS.MBL (SSTVD)
8,900.0	0.00	0.00	8,702.6	1,305.3	-889.9	1,579.7	0.00	0.00	
8,993.0	0.00	0.00	8,795.6	1,305.3	-889.9	1,579.7	0.00	0.00	TD at 8993.0 - TD.MBL (SSTVD)

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Project:	Garfield County, CO (UTM 12N)	MD Reference:	30' KB @ 8358.6usft (H&P 330)
Site:	S1-T7S-R97W (MESA E1-797)	North Reference:	True
Well:	PUCKETT 11C-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PUCKETT 11C-1 PBHL	0.00	0.00	8,795.6	1,305.3	-889.9	14,349,068.90	2,437,387.40	39.479647	-108.175811
- plan hits target center									
- Circle (radius 50.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
4,436.7	4,311.6	WASATCH_G_ZONE.MBL (SSTVD)		0.00		
4,743.7	4,608.6	FORT_UNION.MBL (SSTVD)		0.00		
5,977.6	5,802.6	OHIO_CREEK.MBL (SSTVD)		0.00		
6,222.6	6,039.6	WILLIAMS_FORK.MBL (SSTVD)		0.00		
7,092.0	6,894.6	TOP_GAS.MBL (SSTVD)		0.00		
8,843.0	8,645.6	ROLLINS.MBL (SSTVD)		0.00		
8,993.0	8,795.6	TD.MBL (SSTVD)		0.00		

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S	+E/-W	Comment	
(usft)	(usft)	(usft)	(usft)		
250.0	250.0	0.0	0.0	KOP @ 250' MD	
737.5	732.2	51.1	-34.9	EOB; INC=14.62°	
6,504.5	6,312.4	1,254.2	-855.0	Start Drop -3.00	
6,992.0	6,794.6	1,305.3	-889.9	EOD; INC=0°	
8,993.0	8,795.6	1,305.3	-889.9	TD at 8993.0	