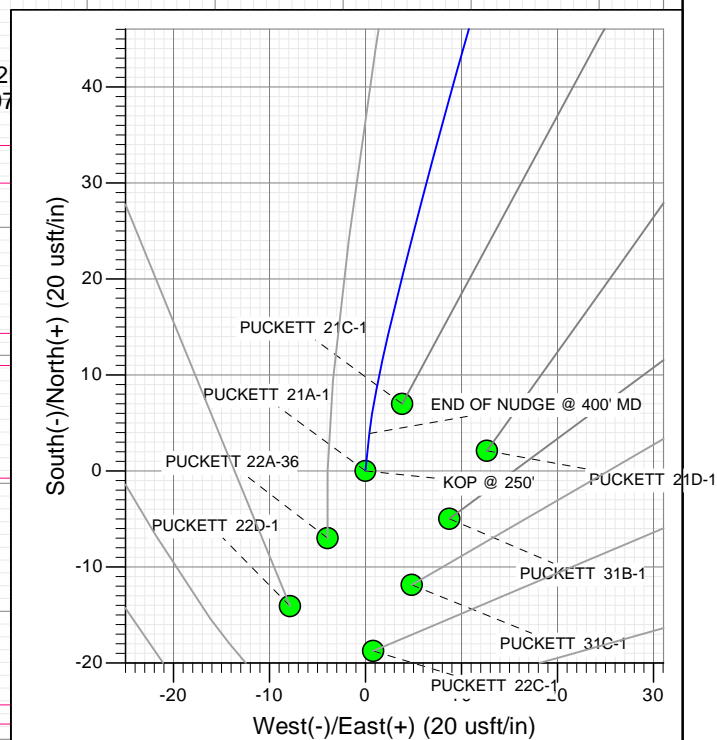
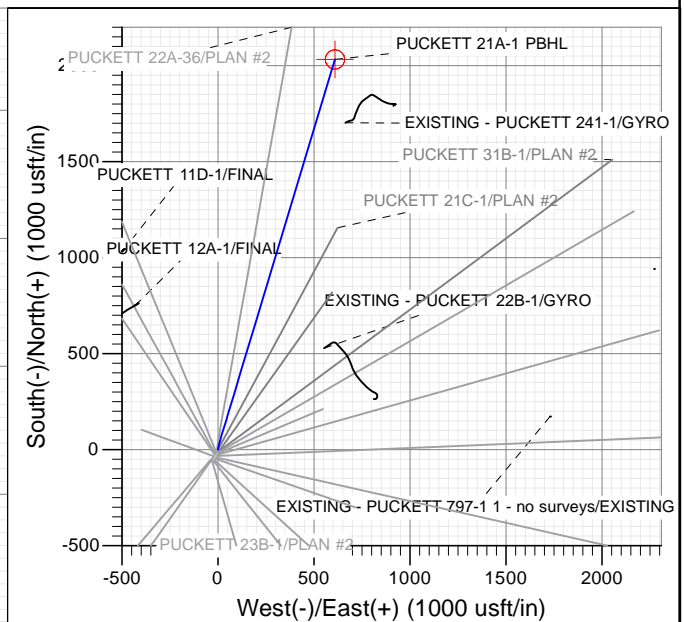
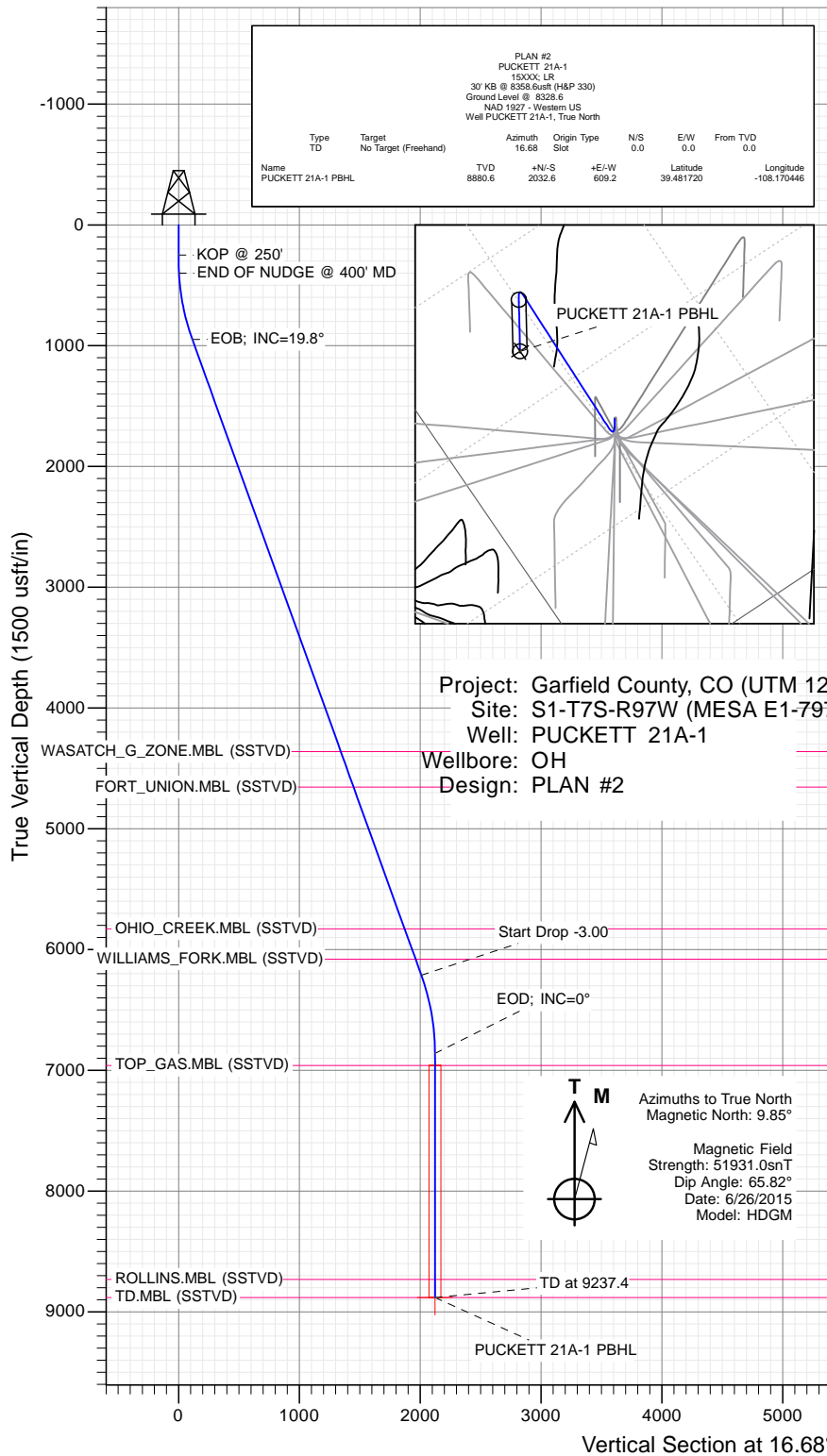




SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	250.0	0.00	0.00	250.0	0.0	0.0	0.00	0.00	0.0		KOP @ 250'
3	400.0	3.00	6.00	399.9	3.9	0.4	2.00	6.00	3.9		END OF NUDDGE @ 400' MD
4	962.0	19.80	16.78	948.9	110.4	29.6	3.00	12.62	114.3		EOB; INC=19.8°
5	6556.5	19.80	16.78	6212.8	1924.5	576.6	0.00	0.00	2009.0		Start Drop -3.00
6	7216.4	0.00	0.00	6859.6	2032.6	609.2	3.00	180.00	2121.9		EOD; INC=0°
7	9237.4	0.00	0.00	8880.6	2032.6	609.2	0.00	0.00	2121.9	PUCKETT 21A-1 PBHL	TD at 9237.4



WELL DETAILS: PUCKETT 21A-1

+N/-S	+E/-W	Northing	Ground Level:	8328.6	Latitude	Longitude
0.0	0.0	14347820.60	Easting	2438332.60	39.476142	-108.172604

CATHEDRAL



Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 21A-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 21A-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	
From:		Easting:		2,438,328.90 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Map		0.0 usft		13-3/16 "	
				39.476123	
				-108.172618	
				1.80 °	

Well	PUCKETT 21A-1					
Well Position	+N/-S	0.0 usft	Northing:	14,347,820.60 usft	Latitude:	39.476142
	+E/-W	0.0 usft	Easting:	2,438,332.60 usft	Longitude:	-108.172604
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	16.68

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	
400.0	3.00	6.00	399.9	3.9	0.4	2.00	2.00	0.00	6.00	
962.0	19.80	16.78	948.9	110.4	29.6	3.00	2.99	1.92	12.62	
6,556.5	19.80	16.78	6,212.8	1,924.5	576.6	0.00	0.00	0.00	0.00	
7,216.4	0.00	0.00	6,859.6	2,032.6	609.2	3.00	-3.00	0.00	180.00	
9,237.4	0.00	0.00	8,880.6	2,032.6	609.2	0.00	0.00	0.00	0.00	PUCKETT 21A-1 PB+

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 21A-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 21A-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'
300.0	1.00	6.00	300.0	0.4	0.0	0.4	2.00	2.00	
400.0	3.00	6.00	399.9	3.9	0.4	3.9	2.00	2.00	END OF NUDGE @ 400' MD
500.0	5.96	12.32	499.6	11.6	1.8	11.6	3.00	2.96	
600.0	8.95	14.44	598.8	24.2	4.8	24.6	3.00	2.99	
700.0	11.95	15.50	697.1	41.7	9.5	42.7	3.00	2.99	
800.0	14.94	16.14	794.3	64.1	15.9	65.9	3.00	3.00	
900.0	17.94	16.58	890.2	91.2	23.9	94.2	3.00	3.00	
962.0	19.80	16.78	948.9	110.4	29.6	114.3	3.00	3.00	EOB; INC=19.8°
1,000.0	19.80	16.78	984.7	122.7	33.3	127.2	0.00	0.00	
1,100.0	19.80	16.78	1,078.7	155.2	43.1	161.0	0.00	0.00	
1,200.0	19.80	16.78	1,172.8	187.6	52.9	194.9	0.00	0.00	
1,300.0	19.80	16.78	1,266.9	220.0	62.7	228.8	0.00	0.00	
1,400.0	19.80	16.78	1,361.0	252.5	72.5	262.6	0.00	0.00	
1,500.0	19.80	16.78	1,455.1	284.9	82.2	296.5	0.00	0.00	
1,600.0	19.80	16.78	1,549.2	317.3	92.0	330.4	0.00	0.00	
1,700.0	19.80	16.78	1,643.3	349.7	101.8	364.2	0.00	0.00	
1,800.0	19.80	16.78	1,737.4	382.2	111.6	398.1	0.00	0.00	
1,900.0	19.80	16.78	1,831.5	414.6	121.3	432.0	0.00	0.00	
2,000.0	19.80	16.78	1,925.6	447.0	131.1	465.8	0.00	0.00	
2,100.0	19.80	16.78	2,019.6	479.4	140.9	499.7	0.00	0.00	
2,200.0	19.80	16.78	2,113.7	511.9	150.7	533.6	0.00	0.00	
2,300.0	19.80	16.78	2,207.8	544.3	160.5	567.4	0.00	0.00	
2,400.0	19.80	16.78	2,301.9	576.7	170.2	601.3	0.00	0.00	
2,500.0	19.80	16.78	2,396.0	609.1	180.0	635.2	0.00	0.00	
2,600.0	19.80	16.78	2,490.1	641.6	189.8	669.0	0.00	0.00	
2,700.0	19.80	16.78	2,584.2	674.0	199.6	702.9	0.00	0.00	
2,800.0	19.80	16.78	2,678.3	706.4	209.3	736.8	0.00	0.00	
2,900.0	19.80	16.78	2,772.4	738.8	219.1	770.7	0.00	0.00	
3,000.0	19.80	16.78	2,866.5	771.3	228.9	804.5	0.00	0.00	
3,100.0	19.80	16.78	2,960.5	803.7	238.7	838.4	0.00	0.00	
3,200.0	19.80	16.78	3,054.6	836.1	248.4	872.3	0.00	0.00	
3,300.0	19.80	16.78	3,148.7	868.6	258.2	906.1	0.00	0.00	
3,400.0	19.80	16.78	3,242.8	901.0	268.0	940.0	0.00	0.00	
3,500.0	19.80	16.78	3,336.9	933.4	277.8	973.9	0.00	0.00	
3,600.0	19.80	16.78	3,431.0	965.8	287.6	1,007.7	0.00	0.00	
3,700.0	19.80	16.78	3,525.1	998.3	297.3	1,041.6	0.00	0.00	
3,800.0	19.80	16.78	3,619.2	1,030.7	307.1	1,075.5	0.00	0.00	
3,900.0	19.80	16.78	3,713.3	1,063.1	316.9	1,109.3	0.00	0.00	
4,000.0	19.80	16.78	3,807.4	1,095.5	326.7	1,143.2	0.00	0.00	
4,100.0	19.80	16.78	3,901.5	1,128.0	336.4	1,177.1	0.00	0.00	
4,200.0	19.80	16.78	3,995.5	1,160.4	346.2	1,210.9	0.00	0.00	
4,300.0	19.80	16.78	4,089.6	1,192.8	356.0	1,244.8	0.00	0.00	
4,400.0	19.80	16.78	4,183.7	1,225.2	365.8	1,278.7	0.00	0.00	
4,500.0	19.80	16.78	4,277.8	1,257.7	375.5	1,312.5	0.00	0.00	
4,589.1	19.80	16.78	4,361.6	1,286.5	384.3	1,342.7	0.00	0.00	WASATCH_G_ZONE.MBL (SSTVD)
4,600.0	19.80	16.78	4,371.9	1,290.1	385.3	1,346.4	0.00	0.00	
4,700.0	19.80	16.78	4,466.0	1,322.5	395.1	1,380.3	0.00	0.00	
4,800.0	19.80	16.78	4,560.1	1,354.9	404.9	1,414.1	0.00	0.00	

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 21A-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 21A-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
4,900.0	19.80	16.78	4,654.2	1,387.4	414.7	1,448.0	0.00	0.00	
4,900.5	19.80	16.78	4,654.6	1,387.5	414.7	1,448.2	0.00	0.00	FORT_UNION.MBL (SSTVD)
5,000.0	19.80	16.78	4,748.3	1,419.8	424.4	1,481.9	0.00	0.00	
5,100.0	19.80	16.78	4,842.4	1,452.2	434.2	1,515.8	0.00	0.00	
5,200.0	19.80	16.78	4,936.4	1,484.7	444.0	1,549.6	0.00	0.00	
5,300.0	19.80	16.78	5,030.5	1,517.1	453.8	1,583.5	0.00	0.00	
5,400.0	19.80	16.78	5,124.6	1,549.5	463.5	1,617.4	0.00	0.00	
5,500.0	19.80	16.78	5,218.7	1,581.9	473.3	1,651.2	0.00	0.00	
5,600.0	19.80	16.78	5,312.8	1,614.4	483.1	1,685.1	0.00	0.00	
5,700.0	19.80	16.78	5,406.9	1,646.8	492.9	1,719.0	0.00	0.00	
5,800.0	19.80	16.78	5,501.0	1,679.2	502.6	1,752.8	0.00	0.00	
5,900.0	19.80	16.78	5,595.1	1,711.6	512.4	1,786.7	0.00	0.00	
6,000.0	19.80	16.78	5,689.2	1,744.1	522.2	1,820.6	0.00	0.00	
6,100.0	19.80	16.78	5,783.3	1,776.5	532.0	1,854.4	0.00	0.00	
6,147.1	19.80	16.78	5,827.6	1,791.8	536.6	1,870.4	0.00	0.00	OHIO_CREEK.MBL (SSTVD)
6,200.0	19.80	16.78	5,877.3	1,808.9	541.8	1,888.3	0.00	0.00	
6,300.0	19.80	16.78	5,971.4	1,841.3	551.5	1,922.2	0.00	0.00	
6,400.0	19.80	16.78	6,065.5	1,873.8	561.3	1,956.0	0.00	0.00	
6,415.0	19.80	16.78	6,079.6	1,878.6	562.8	1,961.1	0.00	0.00	WILLIAMS_FORK.MBL (SSTVD)
6,500.0	19.80	16.78	6,159.6	1,906.2	571.1	1,989.9	0.00	0.00	
6,556.5	19.80	16.78	6,212.8	1,924.5	576.6	2,009.0	0.00	0.00	Start Drop -3.00
6,600.0	18.49	16.78	6,253.9	1,938.2	580.7	2,023.3	3.00	-3.00	
6,700.0	15.49	16.78	6,349.5	1,966.2	589.2	2,052.5	3.00	-3.00	
6,800.0	12.49	16.78	6,446.5	1,989.3	596.1	2,076.7	3.00	-3.00	
6,900.0	9.49	16.78	6,544.7	2,007.5	601.6	2,095.8	3.00	-3.00	
7,000.0	6.49	16.78	6,643.7	2,020.9	605.7	2,109.7	3.00	-3.00	
7,100.0	3.49	16.78	6,743.3	2,029.2	608.2	2,118.4	3.00	-3.00	
7,200.0	0.49	16.78	6,843.2	2,032.5	609.2	2,121.8	3.00	-3.00	
7,216.4	0.00	0.00	6,859.6	2,032.6	609.2	2,121.9	3.00	-3.00	EOD; INC=0°
7,300.0	0.00	0.00	6,943.2	2,032.6	609.2	2,121.9	0.00	0.00	
7,316.4	0.00	0.00	6,959.6	2,032.6	609.2	2,121.9	0.00	0.00	TOP_GAS.MBL (SSTVD)
7,400.0	0.00	0.00	7,043.2	2,032.6	609.2	2,121.9	0.00	0.00	
7,500.0	0.00	0.00	7,143.2	2,032.6	609.2	2,121.9	0.00	0.00	
7,600.0	0.00	0.00	7,243.2	2,032.6	609.2	2,121.9	0.00	0.00	
7,700.0	0.00	0.00	7,343.2	2,032.6	609.2	2,121.9	0.00	0.00	
7,800.0	0.00	0.00	7,443.2	2,032.6	609.2	2,121.9	0.00	0.00	
7,900.0	0.00	0.00	7,543.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,000.0	0.00	0.00	7,643.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,100.0	0.00	0.00	7,743.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,200.0	0.00	0.00	7,843.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,300.0	0.00	0.00	7,943.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,400.0	0.00	0.00	8,043.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,500.0	0.00	0.00	8,143.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,600.0	0.00	0.00	8,243.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,700.0	0.00	0.00	8,343.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,800.0	0.00	0.00	8,443.2	2,032.6	609.2	2,121.9	0.00	0.00	
8,900.0	0.00	0.00	8,543.2	2,032.6	609.2	2,121.9	0.00	0.00	
9,000.0	0.00	0.00	8,643.2	2,032.6	609.2	2,121.9	0.00	0.00	
9,087.4	0.00	0.00	8,730.6	2,032.6	609.2	2,121.9	0.00	0.00	ROLLINS.MBL (SSTVD)
9,100.0	0.00	0.00	8,743.2	2,032.6	609.2	2,121.9	0.00	0.00	
9,200.0	0.00	0.00	8,843.2	2,032.6	609.2	2,121.9	0.00	0.00	
9,237.4	0.00	0.00	8,880.6	2,032.6	609.2	2,121.9	0.00	0.00	TD at 9237.4 - TD.MBL (SSTVD) - PUCKETT 2

Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well PUCKETT 21A-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 21A-1	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #2		

Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PUCKETT 21A-1 PBHL	0.00	0.00	8,880.6	2,032.6	609.2	14,349,871.30	2,438,877.70	39.481720	-108.170446
- plan hits target center									
- Circle (radius 50.0)									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
4,589.1	4,361.6	WASATCH_G_ZONE.MBL (SSTVD)		0.00		
4,900.5	4,654.6	FORT_UNION.MBL (SSTVD)		0.00		
6,147.1	5,827.6	OHIO_CREEK.MBL (SSTVD)		0.00		
6,415.0	6,079.6	WILLIAMS_FORK.MBL (SSTVD)		0.00		
7,316.4	6,959.6	TOP_GAS.MBL (SSTVD)		0.00		
9,087.4	8,730.6	ROLLINS.MBL (SSTVD)		0.00		
9,237.4	8,880.6	TD.MBL (SSTVD)		0.00		

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
250.0	250.0	0.0	0.0	KOP @ 250'
400.0	399.9	3.9	0.4	END OF NUDGE @ 400' MD
962.0	948.9	110.4	29.6	EOB; INC=19.8°
6,556.5	6,212.8	1,924.5	576.6	Start Drop -3.00
7,216.4	6,859.6	2,032.6	609.2	EOD; INC=0°
9,237.4	8,880.6	2,032.6	609.2	TD at 9237.4