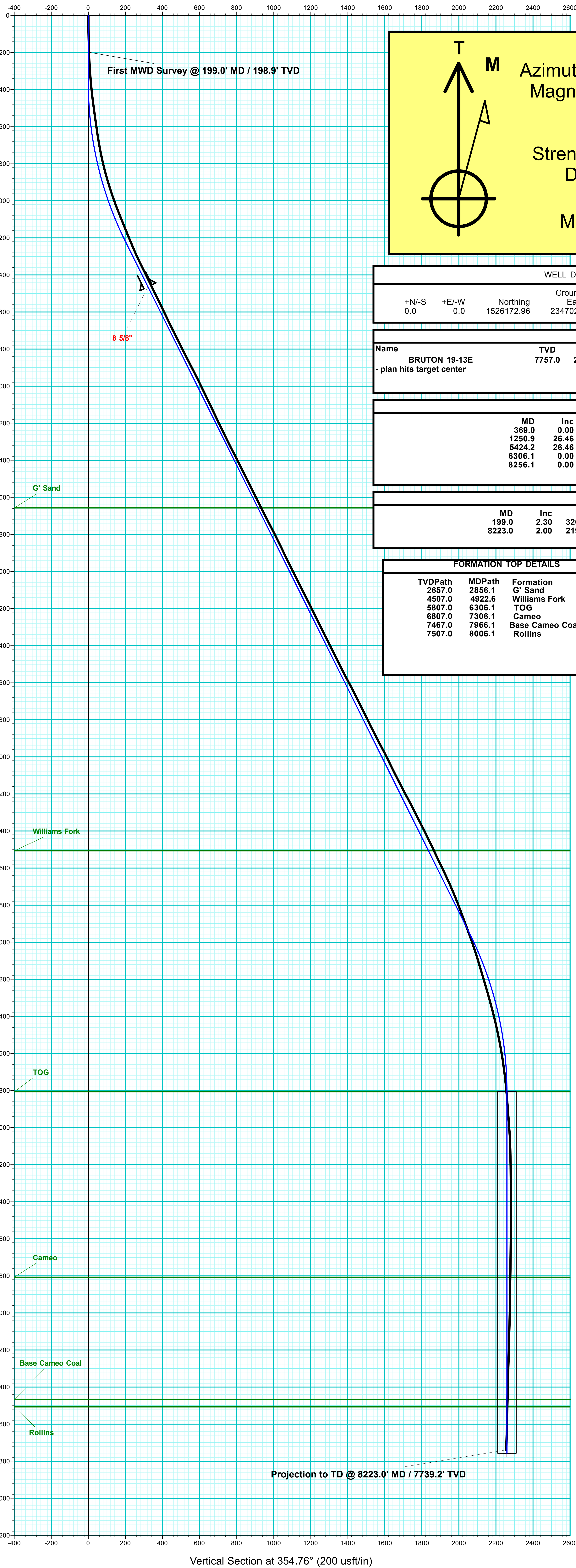


Bruton 19-13E  
Mesa County, CO  
Q170941 & RM-170798  
Design #2

Company Name: Laramie Energy, LLC  
Bruton 19-13E  
Mesa County, CO  
Rig: H&P #290  
Created By: Will Jircik  
Date: 8/8/2017

PROJECT DETAILS: Mesa County, CO  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone  
System Datum: Mean Sea Level



WELL DETAILS: Bruton 19-13E						
+N/-S	+E/-W	Northing	Ground Level: Easting	7425.0	Latitude	Longitude
0.0	0.0	1526172.96	2347023.81		39.255319	-107.806236

DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
BRUTON 19-13E	7757.0	2250.0	-206.4	1528427.46	2346874.61	39.261497	-107.806965	Circle (Radius: 50.0)	
- plan hits target center									

Design #2									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
369.0	0.00	0.00	369.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1250.9	26.46	354.76	1219.9	199.2	-18.3	200.0	200.0	EOB @ 26.46° Inc. / 354.76° Azm	
5424.2	26.46	354.76	4956.1	2050.8	-188.1	2059.4	2059.4	Drop 3° / 100'	
6306.1	0.00	354.76	5807.0	2250.0	-206.4	2259.4	2259.4	EOD @ Vertical	
8256.1	0.00	0.00	7757.0	2250.0	-206.4	2259.4	2259.4	TD @ 8256' MD / 7757' TVD	

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
199.0	2.30	320.20	198.9	3.1	-2.6	3.3	4.0	First MWD Survey @ 199.0' MD / 198.9' TVD	
8223.0	2.00	219.20	7739.2	2246.3	-207.9	2255.9	2318.1	Projection to TD @ 8223.0' MD / 7739.2' TVD	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2657.0	2856.1	G' Sand
4507.0	4922.6	Williams Fork
5807.0	6306.1	TOG
6807.0	7306.1	Cameo
7467.0	7966.1	Base Cameo Coal
7507.0	8006.1	Rollins

