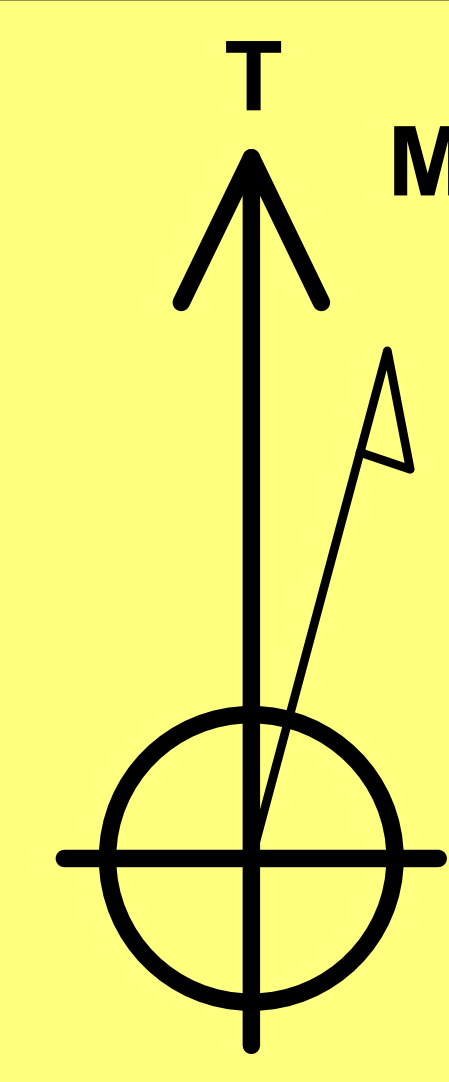


Bruton 30-05E
Mesa County, CO
Q171155 & RM-170979
Design #2

Company Name: Laramie Energy, LLC
Bruton 30-05E
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 9/24/2017

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



Azimuths to True North
Magnetic North: 9.56°

Strength: 51383.0snT
Dip Angle: 65.42°
Date: 9/9/2017
Model: IGRF2015



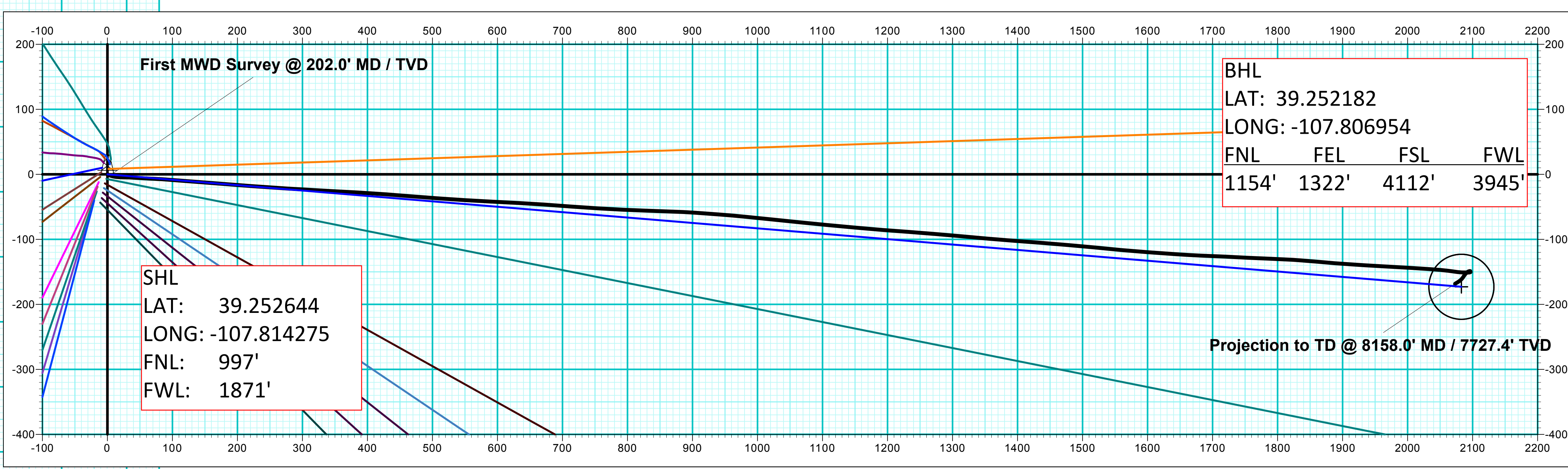
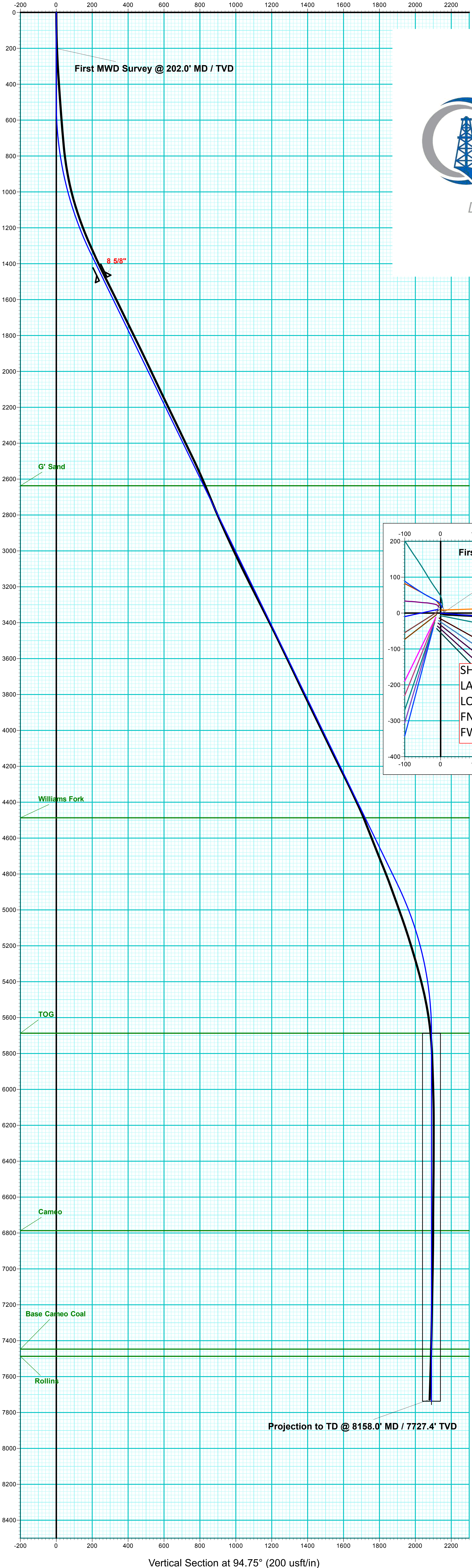
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2837.0	2810.9	G' Sand
4487.0	4867.9	Williams Fork
5687.0	6137.9	TOG
6787.0	7237.9	Cameo
7447.0	7897.9	Base Cameo Coal
7487.0	7937.9	Rollins

WELL DETAILS: Bruton 30-05E					
Ground Level:					7512.0
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1525256.71	2344723.39	39.252644	-107.814275

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
202.0	2.40	114.10	201.9	-1.7	3.9	4.0	4.2	First MWD Survey @ 202.0' MD / TVD
8158.0	2.10	237.80	7727.4	-168.3	2073.2	2080.0	2138.4	Projection to TD @ 8158.0' MD / 7727.4' TVD

DESIGN #2 ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
508.0	0.00	0.00	508.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')
1372.1	25.92	94.75	1342.9	-15.9	191.5	192.1	192.1	EOB @ 25.92° Inc. / 94.75° Azm
5273.8	25.92	94.75	4852.1	-157.0	1891.3	1897.8	1897.8	Drop 3° / 100'
6137.9	0.00	0.00	5687.0	-172.9	2082.8	2089.9	2089.9	EOD @ Vertical
8187.9	0.00	0.00	7737.0	-172.9	2082.8	2089.9	2089.9	TD @ 8188' MD / 7737" TVD

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 30-05E D#2 7737.0	7737.0	-172.9	2082.8	1525030.81	2346801.08	39.252169	-107.806920	Circle (Radius: 50.0)



Vertical Section at 94.75° (200 usft/in)