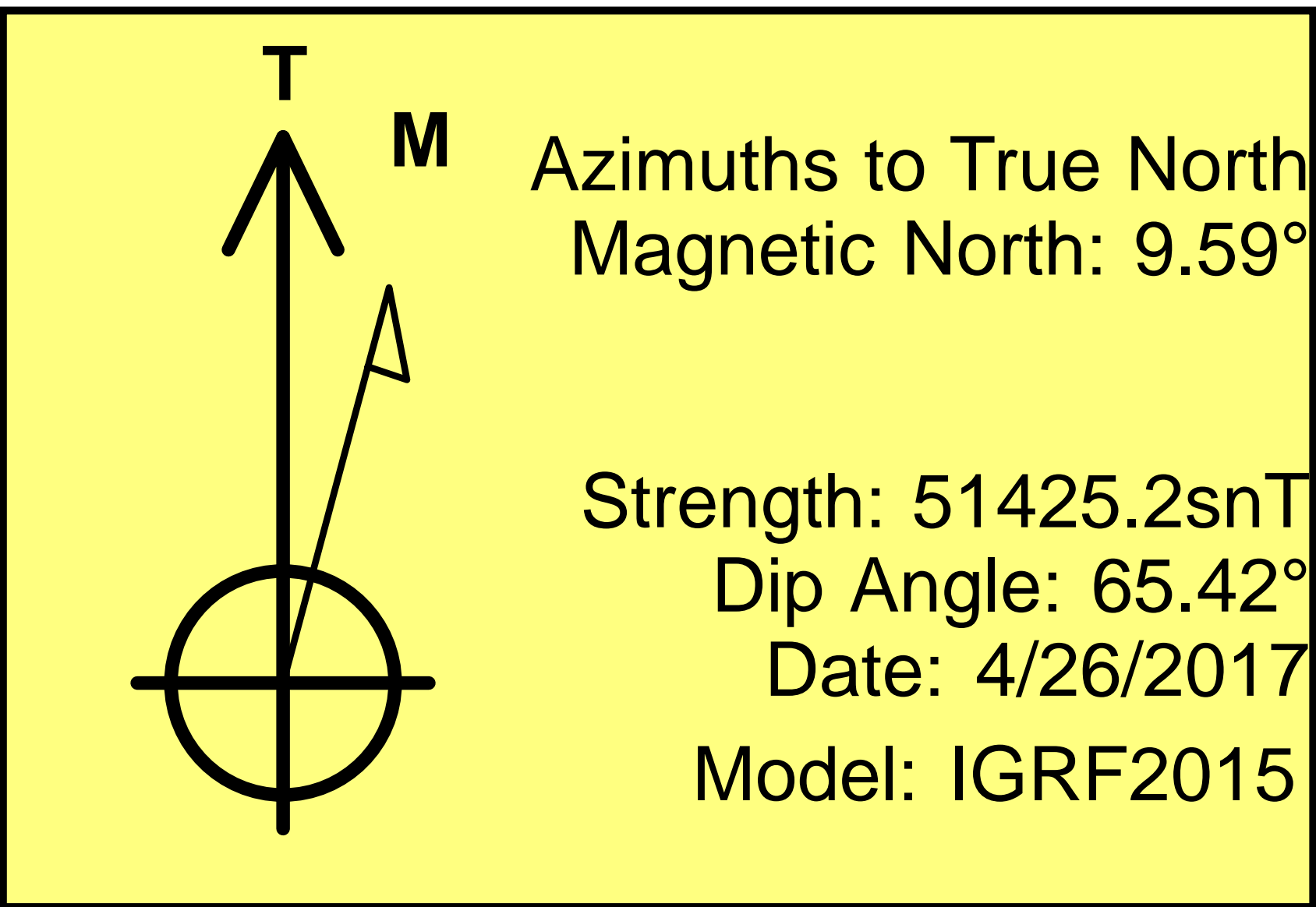
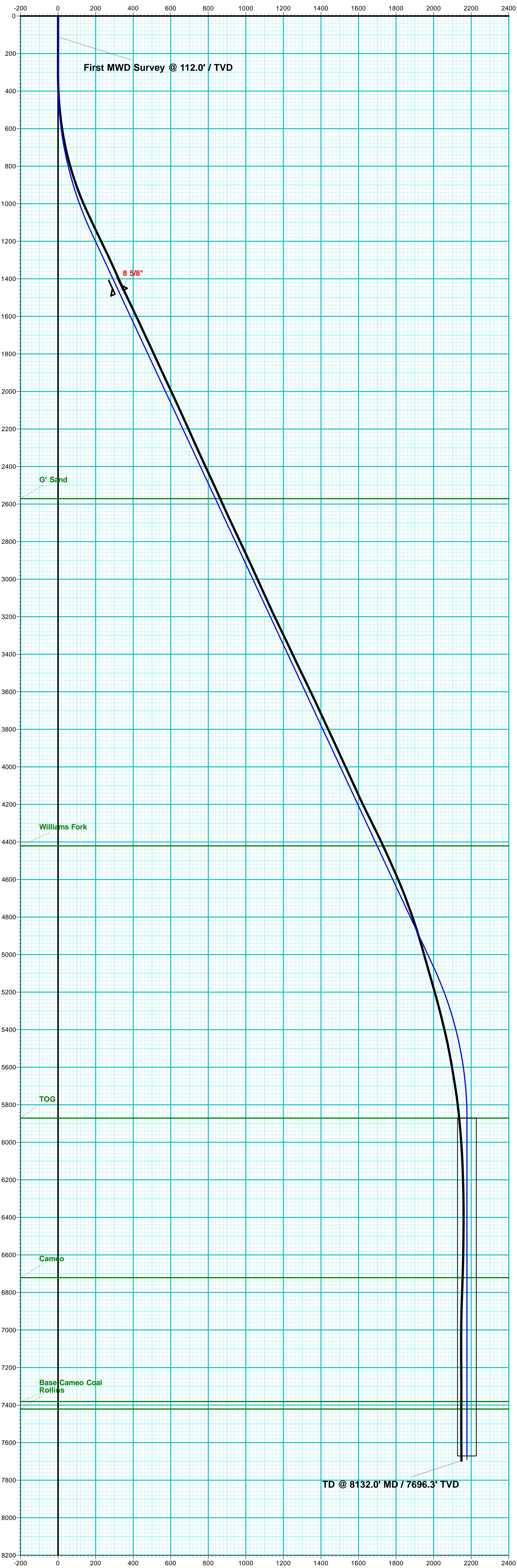


Piceance Federal 29-20E  
Mesa County, CO  
Q170508 & RM-170421  
Design #2

Company Name: Laramie Energy, LLC  
Piceance Federal 29-20E  
Mesa County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 05/01/2017

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



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2571.0	2743.0	G' Sand
4421.0	4783.9	Williams Fork
5871.0	6326.4	TOG
6721.0	7176.4	Cameo
7381.0	7836.4	Base Cameo Coal
7421.0	7876.4	Rollins

WELL DETAILS: Piceance Federal 29-20E					
+N/-S	+E/-W	Ground Level: Northing	Easting	7531.0 Latitude	Longitude
0.0	0.0	1523527.35	2352031.36	39.248406	-107.788322

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Piceance Federal 29-20E	7671.0	-2177.5	-8.2	1521350.76	2351968.37	39.242427	-107.788351	Circle (Radius: 50.0)

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
112.0	0.50	265.00	112.0	0.0	-0.5	0.0	0.5	First MWD Survey @ 112.0' / TVD	
8132.0	2.30	259.60	7696.3	-2148.1	-39.5	2148.4	2208.4	TD @ 8132.0' MD / 7696.3' TVD	

