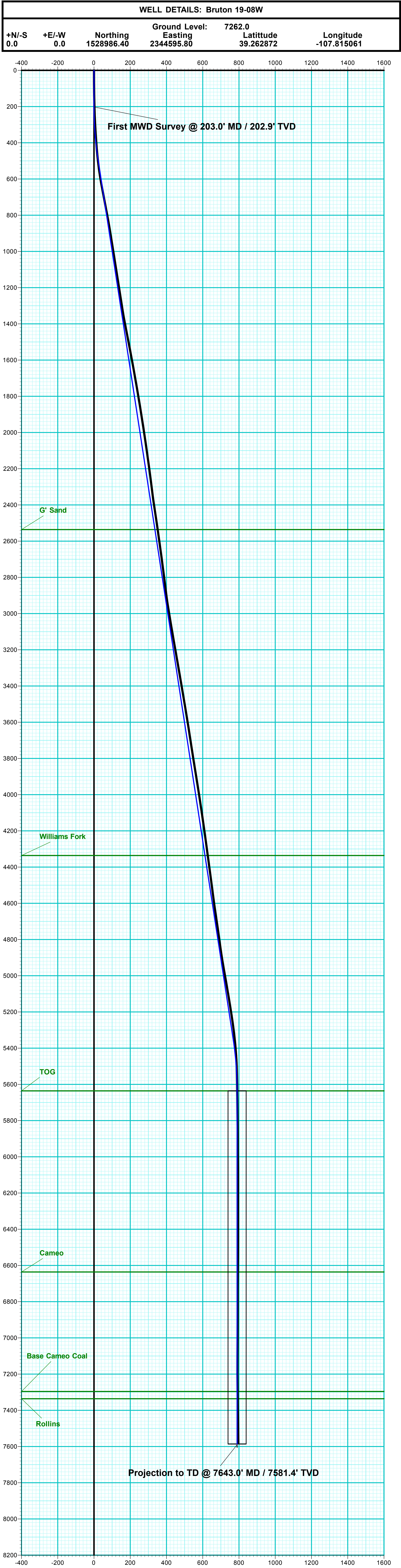


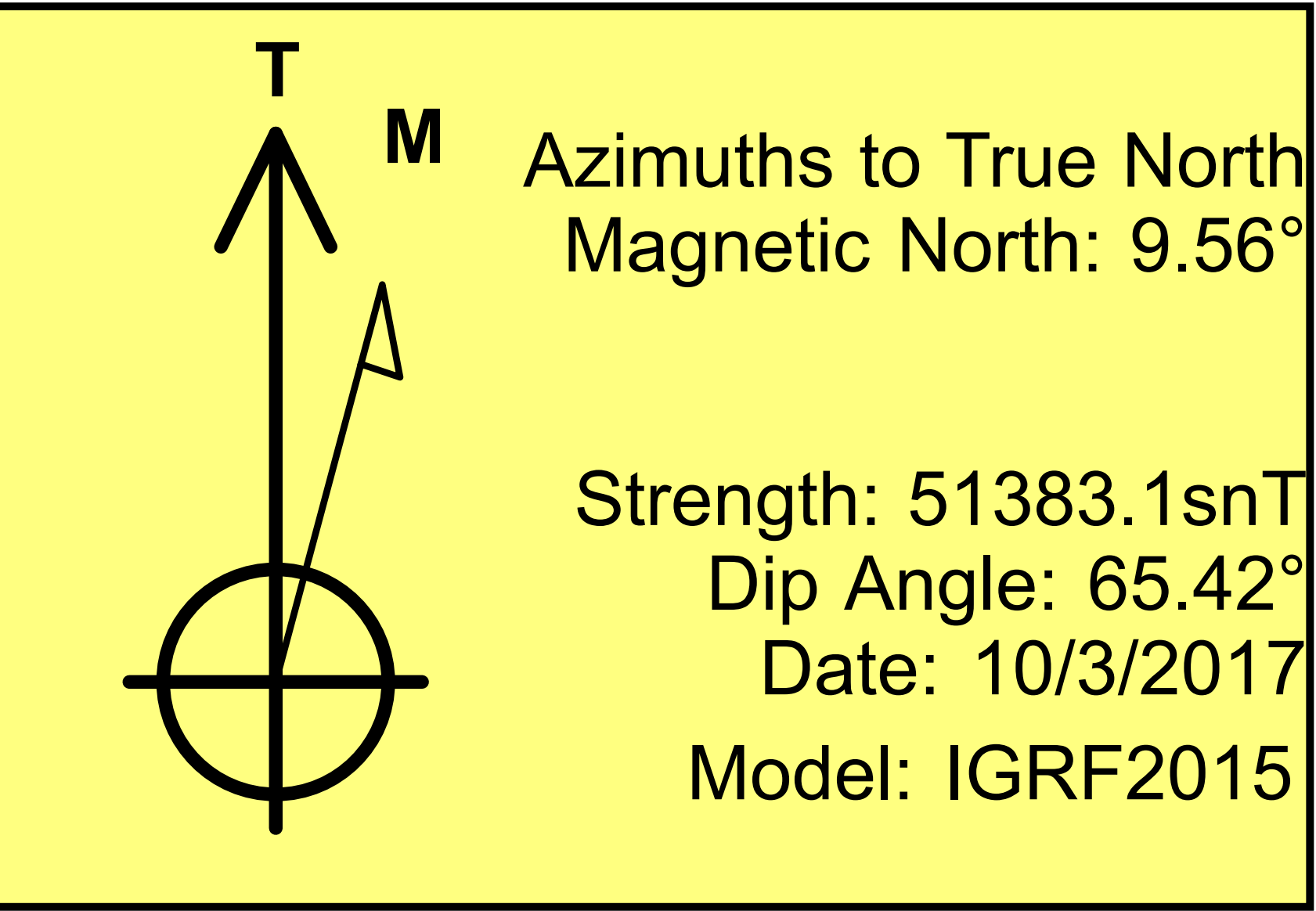
Bruton 19-08W
Mesa County, CO
Q171270 & RM-171073
Design #2

Company Name: Laramie Energy, LLC
Bruton 19-08W
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 10/6/2017

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
2536.0	2561.1	G' Sand
4336.0	4382.2	Williams Fork
5636.0	5695.1	TOG
6636.0	6695.1	Cameo
7296.0	7355.1	Base Cameo Coal
7336.0	7395.1	Rollins



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
203.0	2.90	264.80	202.9	-0.5	-5.1	2.6	5.1	First MWD Survey @ 203.0' MD / 202.9' TVD	
7643.0	2.90	254.10	7581.4	639.7	-474.9	796.7	839.1	Projection to TD @ 7643.0' MD / 7581.4' TVD	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 19-08W	7586.0	640.3	-462.1	1529638.27	2344150.21	39.264630	-107.816693	Circle (Radius: 50.0)
- plan hits target center								

Design #2 Annotations									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100)	
490.9	8.73	324.18	489.8	17.9	-12.9	22.1	22.1	EOB @ 8.73° Inc. / 324.18° Azm	
5404.3	8.73	324.18	5346.3	622.4	-449.1	767.5	767.5	Drop 3° / 100'	
5695.1	0.00	324.18	5636.0	640.3	-462.1	789.6	789.6	EOD @ Vertical	
7645.1	0.00	0.00	7586.0	640.3	-462.1	789.6	789.6	TD @ 7645' MD / 7586' TVD	

