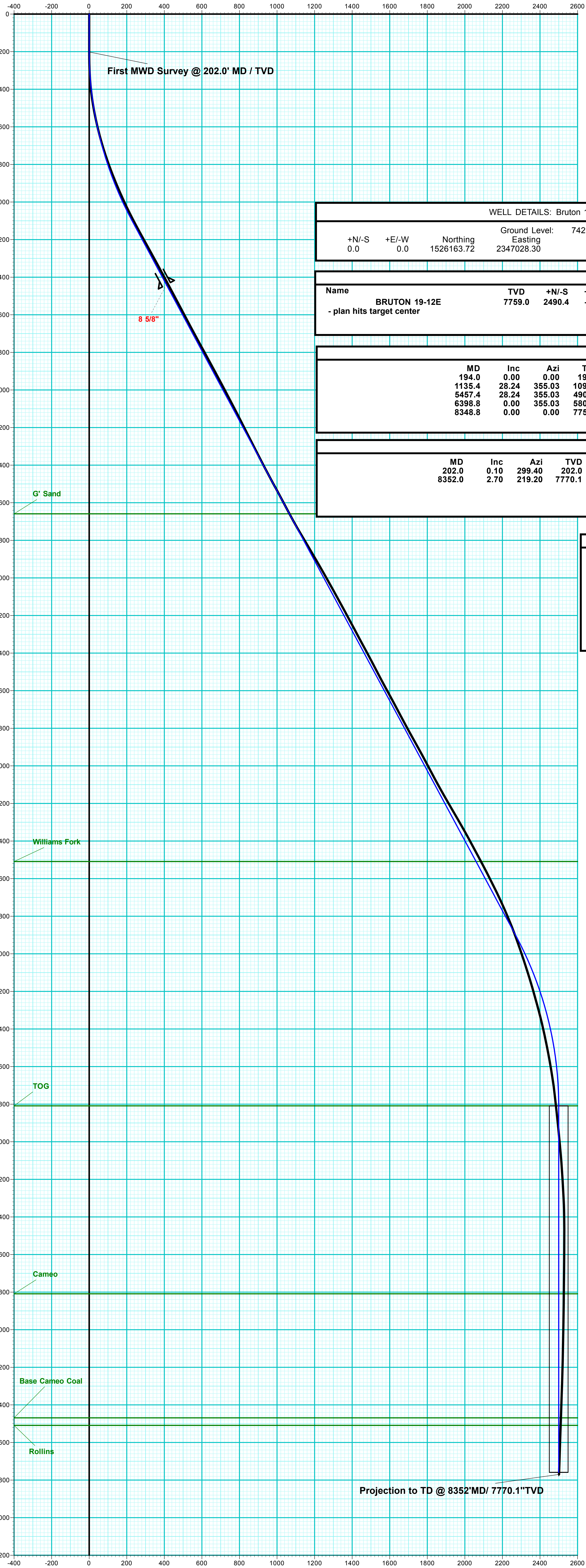


Bruton 19-12E
Mesa County, CO
Q170938 & RM-170795
Design #2

Company Name: Laramie Energy, LLC
Bruton 19-12E
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 7/26/2017

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



T

M

Azimuths to True North

Magnetic North: 9.58°

Strength: 51401.7snT

Dip Angle: 65.42°

Date: 7/20/2017

Model: IGRF2015

WELL DETAILS: Bruton 19-12E					
+N/-S	+E/-W	Northing	Ground Level: 7425.0 Easting	Latitude 39.255294	Longitude -107.806219
0.0	0.0	1526163.72	2347028.30		

DESIGN TARGET DETAILS								
Name	BRUTON 19-12E	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	- plan hits target center	7759.0	2490.4	-216.8	1528658.81	2346874.82	39.262132	-107.806985
							Shape	Circle (Radius: 50.0)

Design #2 Annotations									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
194.0	0.00	0.00	194.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1135.4	28.24	355.03	1097.7	226.5	-19.7	227.3	227.3	EOB @ 28.24° Inc. / 355.03° Azm	
5457.4	28.24	355.03	4905.3	2263.9	-197.0	2272.5	2272.5	Drop 3° / 100'	
6398.8	0.00	355.03	5809.0	2490.4	-216.8	2499.8	2499.8	EOD @ Vertical	
8348.8	0.00	0.00	7759.0	2490.4	-216.8	2499.8	2499.8	TD @ 8349' MD / 7759' TVD	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
202.0	0.10	299.40	202.0	0.1	-0.2	0.1	0.2	First MWD Survey @ 202.0' MD / TVD
8352.0	2.70	219.20	7770.1	2491.2	-228.2	2501.3	2570.0	Projection to TD @ 8352' MD / 7770.1' TVD

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
2659.0	2907.6	G' Sand	
4509.0	5007.6	Williams Fork	
5809.0	6398.8	TOG	
6809.0	7398.8	Cameo	
7469.0	8058.8	Base Cameo Coal	
7509.0	8098.8	Rollins	

