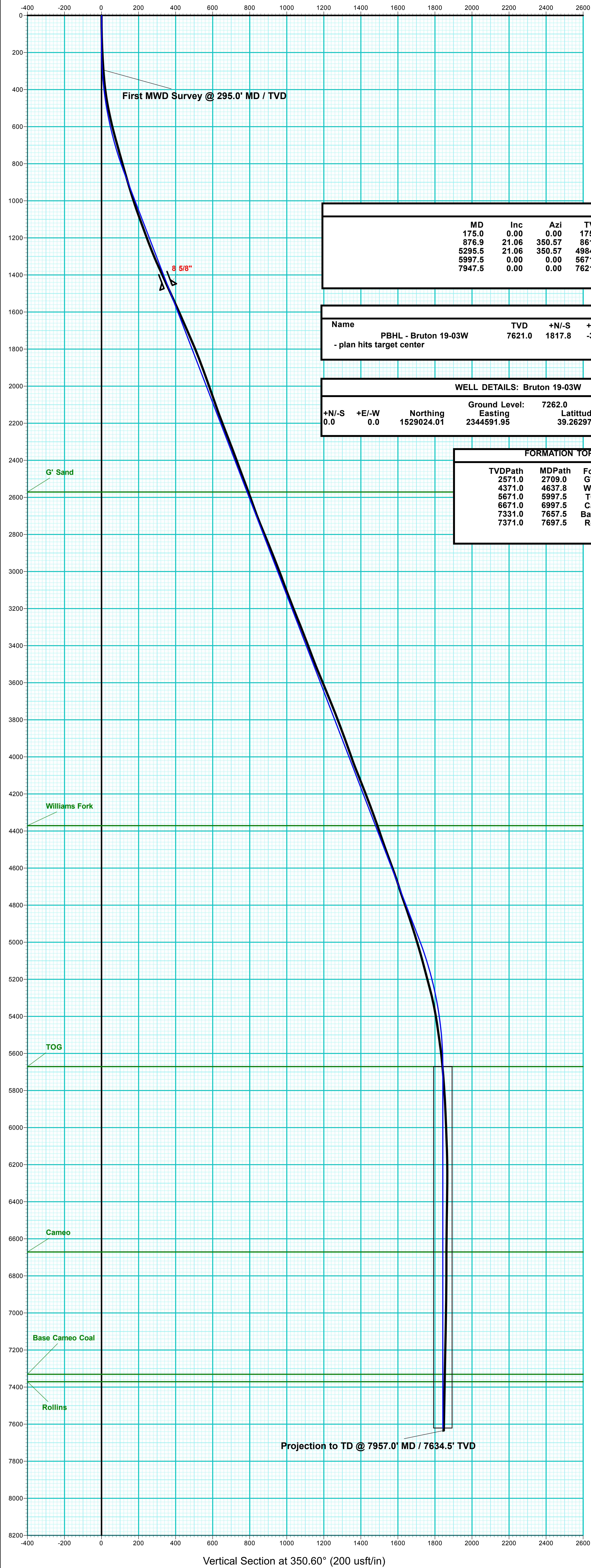


Bruton 19-03W
Mesa County, CO
Q171123 & RM-170943
Design #2

Company Name: Laramie Energy, LLC
Bruton 19-03W
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 9/04/2017

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



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M

Azimuths to True North

Magnetic North: 9.57°

Strength: 51393.5snT

Dip Angle: 65.42°

Date: 8/30/2017

Model: IGRF2015

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
175.0	0.00	0.00	175.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100)	
876.9	21.06	350.57	861.2	125.8	-20.9	127.5	127.5	EOB @ 21.06° Inc. / 350.57° Azm	
5295.5	21.06	350.57	4984.7	1692.0	-280.9	1715.2	1715.2	Drop 3° / 100'	
5997.5	0.00	0.00	5671.0	1817.8	-301.8	1842.7	1842.7	EOD @ Vertical	
7947.5	0.00	0.00	7621.0	1817.8	-301.8	1842.7	1842.7	TD @ 7948' MD / 7621' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Bruton 19-03W	7621.0	1817.8	-301.8	1530848.94	2344336.57	39.267966	-107.816144
- plan hits target center							
Shape: Circle (Radius: 50.0)							

WELL DETAILS: Bruton 19-03W					
		Ground Level: 7262.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1529024.01	2344591.95	39.262975	-107.815078

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2571.0	2709.0	G' Sand
4371.0	4637.8	Williams Fork
5671.0	5997.5	TOG
6671.0	6997.5	Cameo
7331.0	7657.5	Base Cameo Coal
7371.0	7697.5	Rollins

ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
295.0	4.70	319.10	294.7	9.1	-7.9	10.3	12.1	First MWD Survey @ 295.0' MD / TVD	
7957.0	1.20	198.80	7634.5	1825.6	-287.2	1848.0	1899.1	Projection to TD @ 7957.0' MD / 7634.5' TVD	

