

Bruton 30-16W
Mesa County, CO
Q171622 & RM-171373
Design #3

Company Name: Laramie Energy, LLC
Bruton 30-16W
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 12/27/2017

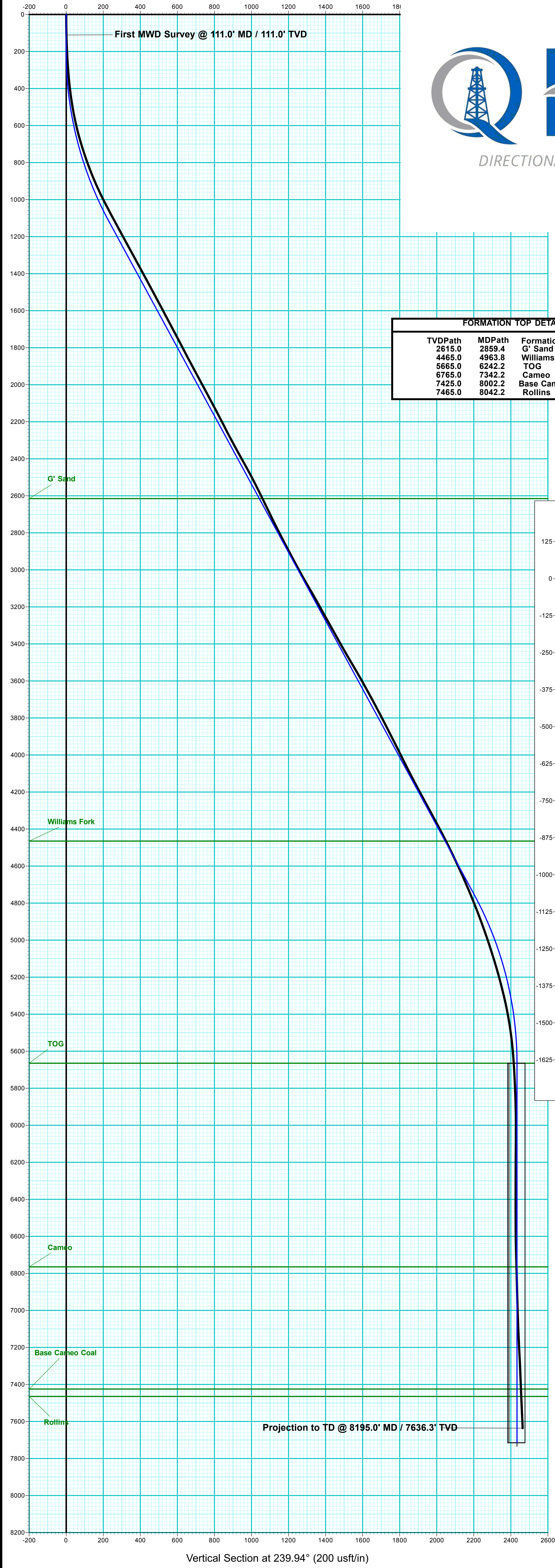
PROJECT DETAILS: Mesa County, CO
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

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Azimuths to True North
Magnetic North: 9.53°

Strength: 51348.9snT
Dip Angle: 65.41°
Date: 12/21/2017
Model: IGRF2015

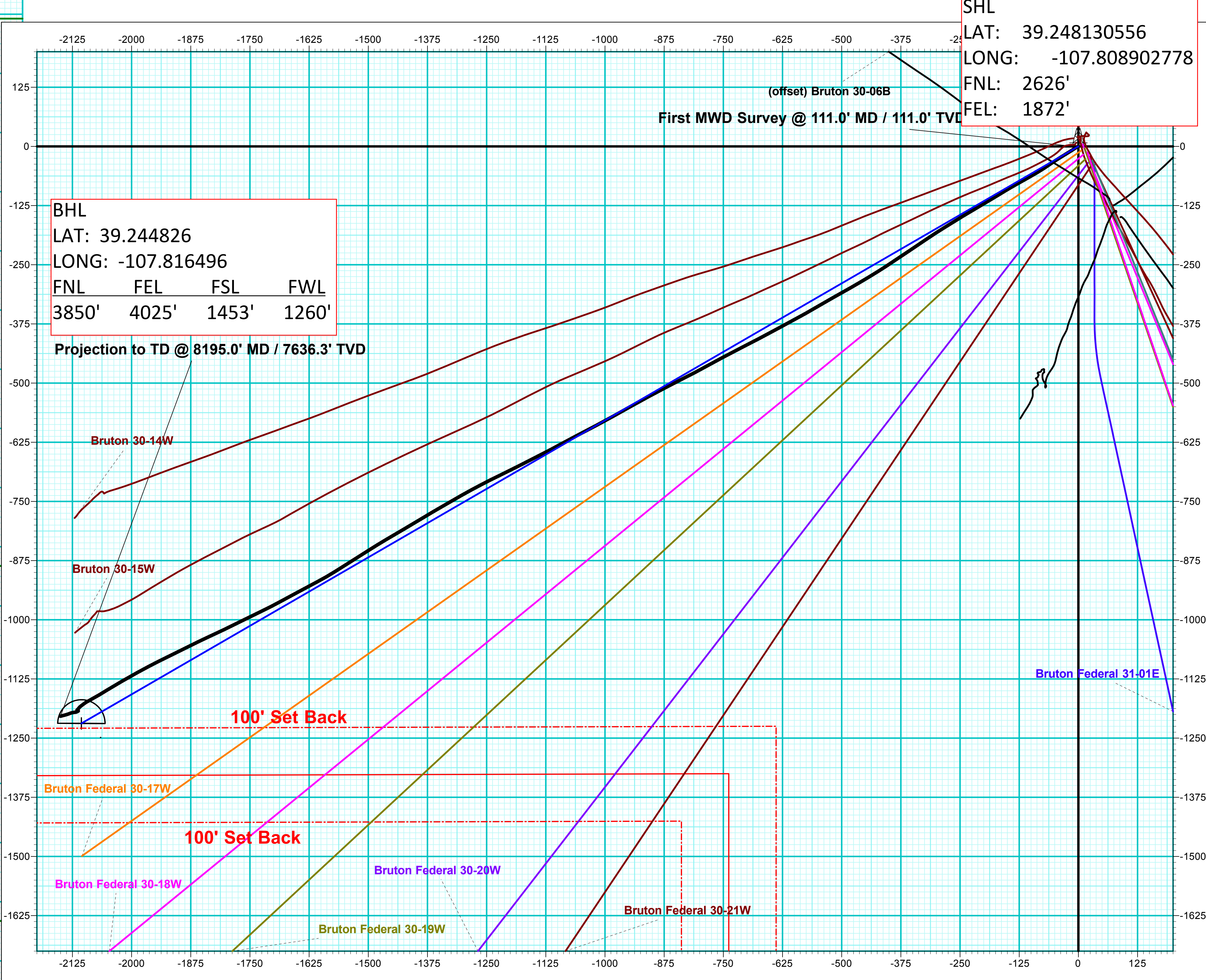


FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2615.0	2859.4	G' Sand
4465.0	4963.8	Williams Fork
5665.0	6242.2	TOG
6765.0	7342.2	Cameo
7425.0	8002.2	Base Cameo Coal
7465.0	8042.2	Rollins

WELL DETAILS: Bruton 30-16W					
+N/-S	+E/-W	Northing	Ground Level: Easting	7643.0	Latitude
0.0	0.0	1523574.83	2346202.35	39.248131	Longitude
					-107.808903

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
208.0	0.00	0.00	208.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1156.8	28.46	239.94	1118.3	-115.7	-199.8	230.9	230.9	EOB @ 28.46° Inc. / 239.94° Azm	
5293.3	28.46	239.94	4754.7	-1103.3	-1906.2	2202.4	2202.4	Drop 3° / 100'	
6242.2	0.00	0.00	5665.0	-1218.9	-2106.0	2433.3	2433.3	EOD @ Vertical	
8292.2	0.00	0.00	7715.0	-1218.9	-2106.0	2433.3	2433.3	TD @ 8292.2' MD / 7715.0' TVD	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 30-16W D#37715.0	7715.0	-1218.9	-2106.0	1522409.83	2344066.04	39.244784	-107.816339	Circle (Radius: 50.0)



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
111.0	1.40	238.70	111.0	-0.7	-1.2	1.4	1.4	First MWD Survey @ 111.0° MD / 111.0° TVD	
8195.0	2.61	256.20	7636.3	-1203.7	-2150.2	2463.9	2475.2	Projection to TD @ 8195.0' MD / 7636.3' TVD	