

Bruton 30-19E
Mesa County, CO
Q180044 & RM-180042
Design #2

Company Name: Laramie Energy, LLC
Bruton 30-19E
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 1/19/2018

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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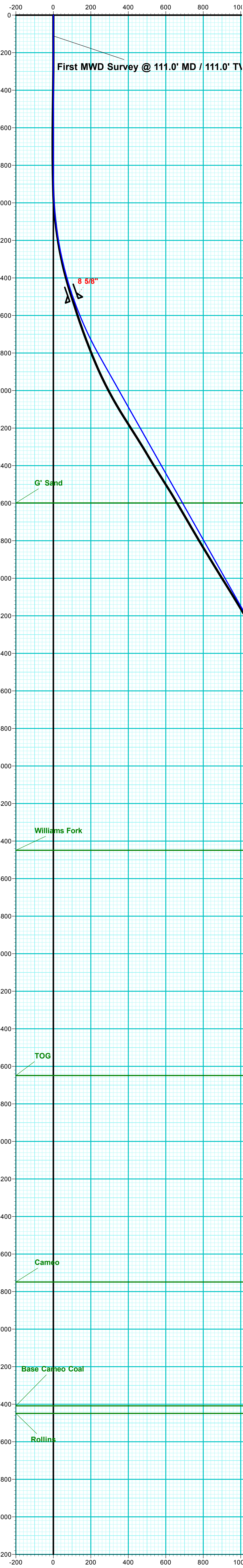
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Azimuths to True North
Magnetic North: 9.53°

Strength: 51344.0snT
Dip Angle: 65.41°
Date: 1/6/2018
Model: IGRF2015



WELL DETAILS: Bruton 30-19E					
+N/-S	+E/-W	Northing	Ground Level: Easting	7643.0 Latitude	Longitude
0.0	0.0	1523561.97	2346221.00	39.248097	-107.808836

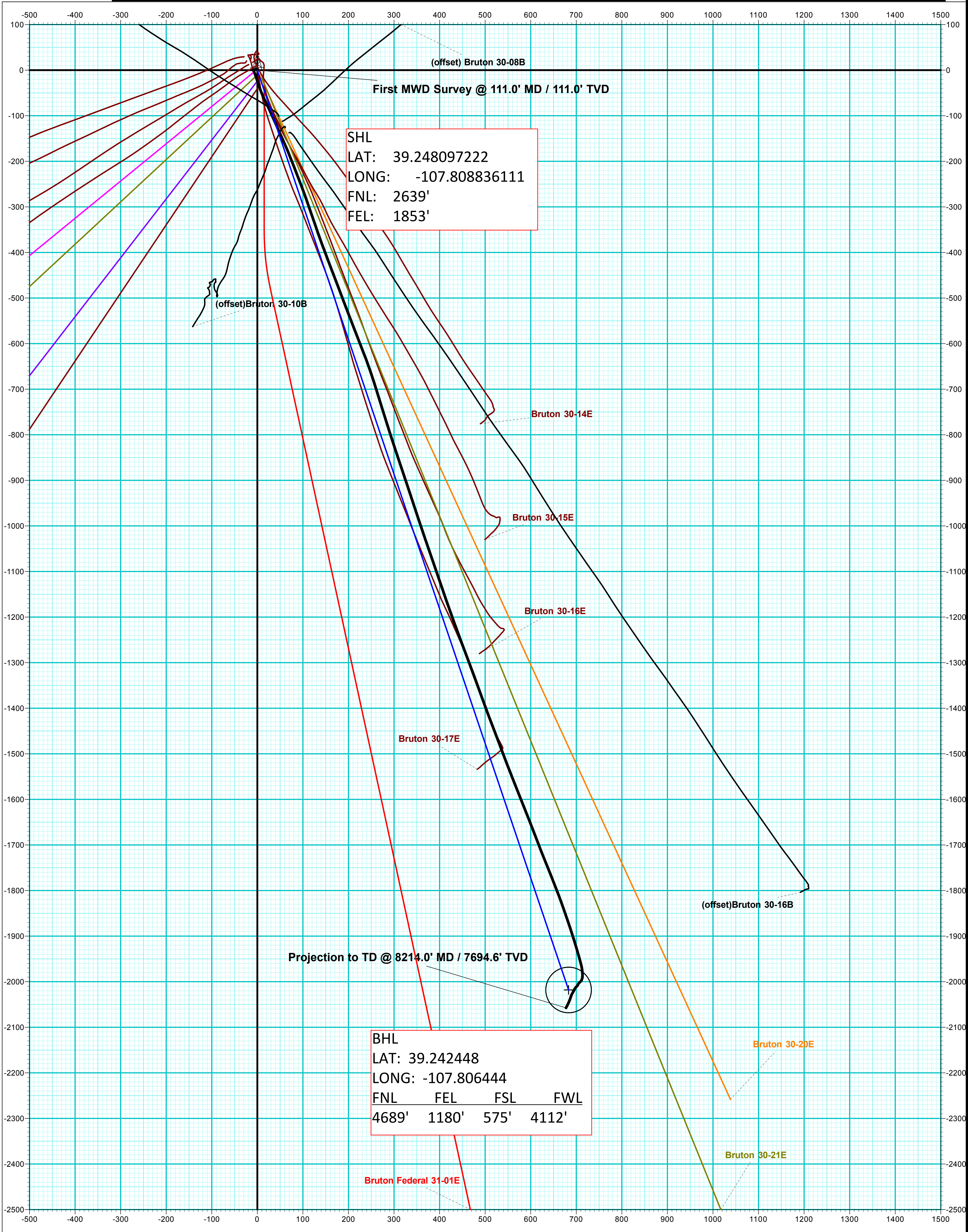


FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2599.0	2758.2	G' Sand
4449.0	4883.8	Williams Fork
5649.0	6165.4	TOG
6749.0	7265.4	Cameo
7409.0	7925.4	Base Cameo Coal
7449.0	7965.4	Rollins

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
878.0	0.00	0.00	878.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1861.5	29.50	161.30	1818.6	-234.6	79.4	247.7	247.7	EOB @ 29.50° Inc. / 161.30° Azm	
5181.9	29.50	161.30	4708.4	-1783.5	603.7	1882.9	1882.9	Drop 3° / 100'	
6165.4	0.00	0.00	5649.0	-2018.1	683.1	2130.6	2130.6	EOD @ Vertical	
8215.4	0.00	0.00	7699.0	-2018.1	683.1	2130.6	2130.6	TD @ 8215.4' MD / 7699.0' TVD	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
111.0	0.50	93.30	111.0	0.0	0.5	0.2	0.5	First MWD Survey @ 111.0' MD / 111.0' TVD
8214.0	3.40	207.00	7694.6	-2057.3	677.5	2166.0	2210.7	Projection to TD @ 8214.0' MD / 7694.6' TVD

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 30-19E	7699.0	-2018.1	683.1	1521527.16	2346882.61	39.242556	-107.806424	Circle (Radius: 50.0)



Projection to TD @ 8214.0' MD / 7694.6' TVD

Vertical Section at 161.30° (200 usft/in)