

Bruton 30-20E  
Mesa County, CO  
Q180045 & RM-180043  
Design #2

Company Name: Laramie Energy, LLC  
Bruton 30-20E  
Mesa County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 1/22/2018

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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Azimuths to True North  
Magnetic North: 9.53°

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



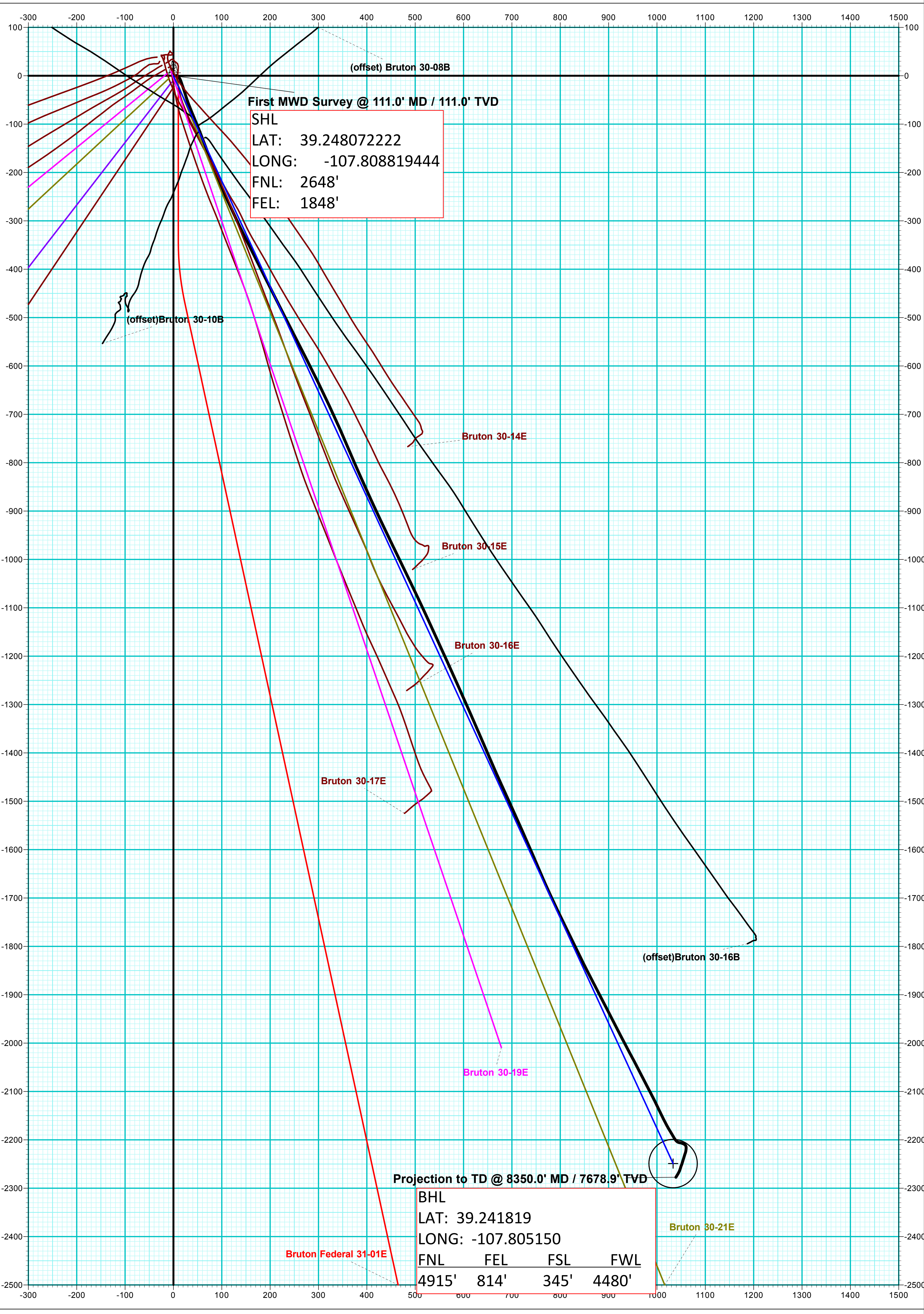
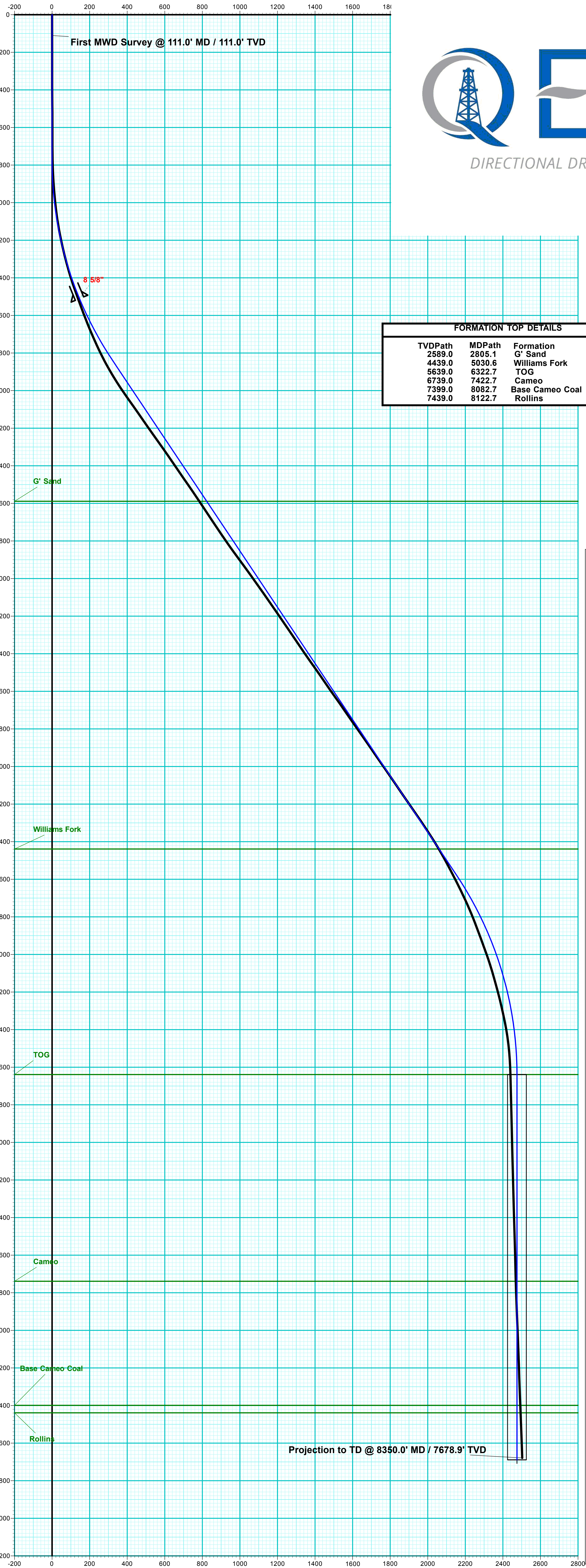
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2589.0	2805.1	G' Sand
4439.0	5030.6	Williams Fork
5639.0	6322.7	TOG
6739.0	7422.7	Cameo
7399.0	8082.7	Base Cameo Coal
7439.0	8122.7	Rollins

WELL DETAILS: Bruton 30-20E					
+N/-S	+E/-W	Northing	Ground Level: Easting	7643.0 Latitude	Longitude
0.0	0.0	1523552.74	2346225.58	39.248072	-107.808819

DESIGN #2 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
778.0	0.00	0.00	778.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1903.6	33.77	155.32	1839.6	-292.8	134.5	322.2	322.2	EOB @ 33.77° Inc. / 155.32° Azm	
5197.1	33.77	155.32	4577.4	-1956.2	898.9	2152.9	2152.9	Drop 3° / 100'	
6322.7	0.00	0.00	5639.0	-2249.0	1033.5	2475.1	2475.1	EOD @ Vertical	
8372.7	0.00	0.00	7689.0	-2249.0	1033.5	2475.1	2475.1	TD @ 8372.7' MD / 7689.0' TVD	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
111.0	0.50	90.40	111.0	0.0	0.5	0.2	0.5	First MWD Survey @ 111.0' MD / 111.0' TVD
8350.0	3.70	212.20	7678.9	-2277.3	1039.2	2503.2	2537.1	Projection to TD @ 8350.0' MD / 7678.9' TVD

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 30-20E	7689.0	-2249.0	1033.5	1521278.21	2347201.56	39.241897	-107.805170	Circle (Radius: 50.0)



Vertical Section at 155.32° (200 usft/in)