

Bruton 30-21E  
Mesa County, CO  
Q180136 & RM-180120  
Design #2

Company Name: Laramie Energy, LLC  
Bruton 30-21E  
Mesa County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 2/3/2018

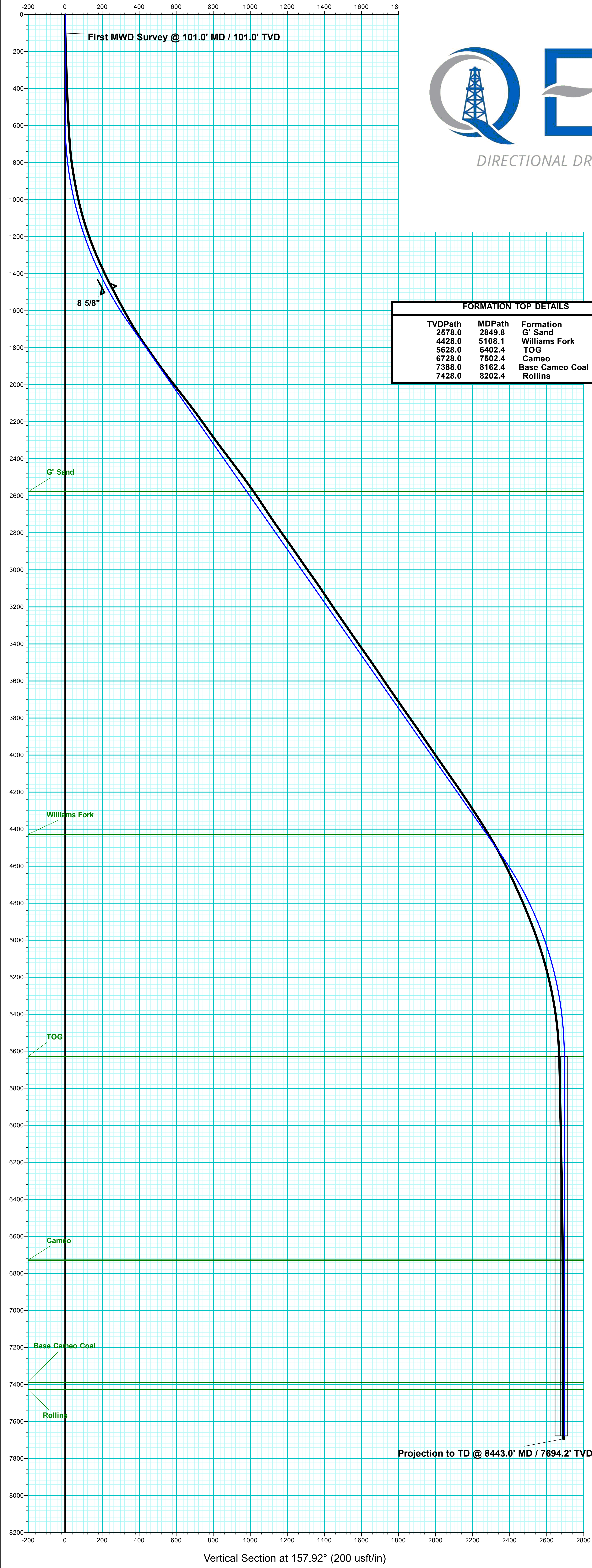
PROJECT DETAILS: Mesa County, CO  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone  
System Datum: Mean Sea Level

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M

Azimuths to True North  
Magnetic North: 9.52°

Strength: 51338.2snT  
Dip Angle: 65.41°  
Date: 1/25/2018  
Model: IGRF2015



FORMATION TOP DETAILS		
TVDPATH	MDPATH	FORMATION
2578.0	2849.8	G' Sand
4428.0	5108.1	Williams Fork
5628.0	6402.4	TOG
6728.0	7502.4	Cameo
7388.0	8162.4	Base Cameo Coal
7428.0	8202.4	Rollins

WELL DETAILS: Bruton 30-21E					
+N/-S	+E/-W	Ground Level:	7643.0	Latitude	Longitude
0.0	0.0	1523544.59	2346230.76	39.248050	-107.808800

DESIGN #2 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
574.0	0.00	0.00	574.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1740.6	35.00	157.92	1669.4	-320.0	129.8	345.4	345.4	EOB @ 35.00° Inc. / 157.92° Azm	
5235.8	35.00	157.92	4532.6	-2177.7	883.3	2350.0	2350.0	Drop 3° / 100'	
6402.4	0.00	0.00	5628.0	-2497.8	1013.1	2695.4	2695.4	EOD @ Vertical	
8452.4	0.00	0.00	7678.0	-2497.8	1013.1	2695.4	2695.4	TD @ 8452.4' MD / 7678.0' TVD	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
101.0	1.20	138.10	101.0	-0.8	0.7	1.0	1.1	First MWD Survey @ 101.0' MD / 101.0' TVD
8443.0	2.00	237.40	7694.2	-2488.5	1022.6	2690.3	2724.3	Projection to TD @ 8443.0' MD / 7694.2' TVD

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	North	East	Latitude	Longitude
PBHL - Bruton 30-21E	7678.0	-2497.8	1013.1	1521021.90	2347180.04	39.241192	-107.805223
							Shape
							Circle (Radius: 50.0)

