

Bruton Federal 30-21W  
Mesa County, CO  
Q180138 & RM-180122  
Design #2

Company Name: Laramie Energy, LLC  
Bruton Federal 30-21W  
Mesa County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 2/14/2018

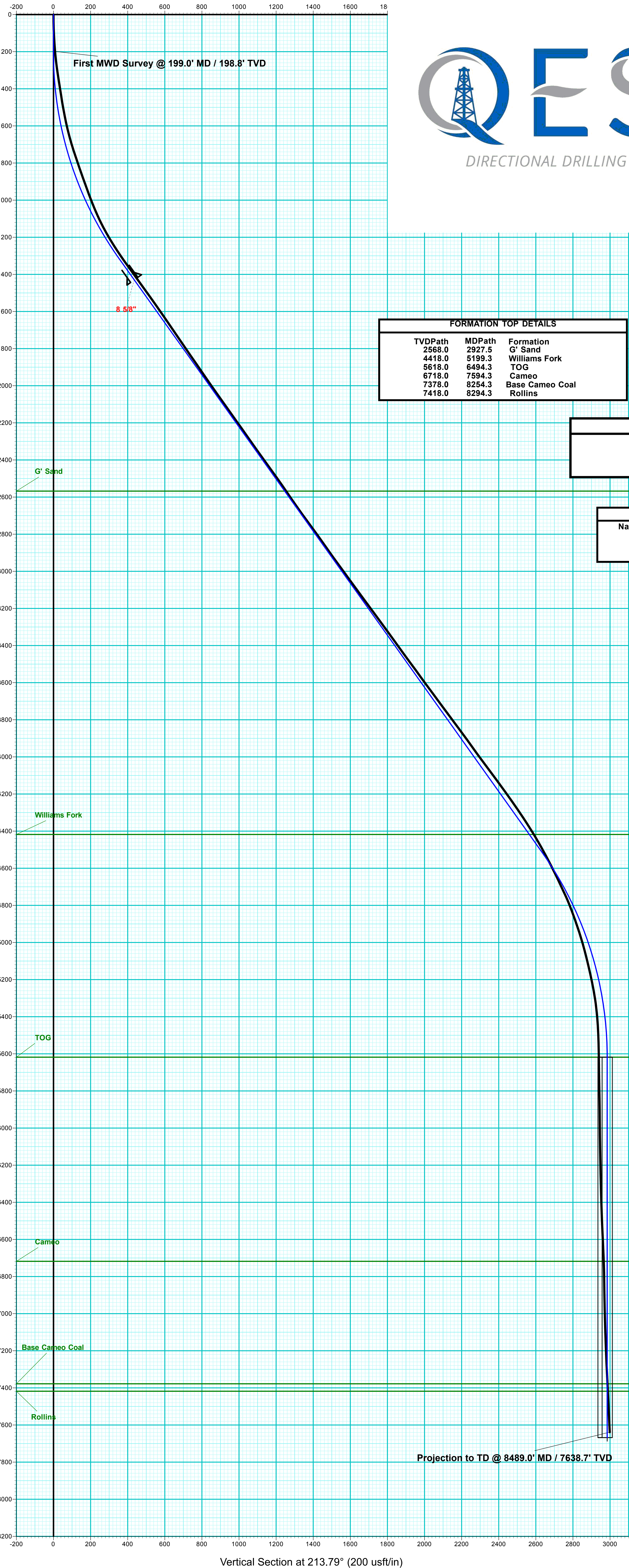
PROJECT DETAILS: Mesa County, CO  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Central Zone  
System Datum: Mean Sea Level

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Azimuths to True North  
Magnetic North: 9.52°

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



WELL DETAILS: Bruton Federal 30-21W					
+N/-S	+E/-W	Northing	Ground Level: Easting	7643.0	Latitude
0.0	0.0	1523530.50	2346226.43		39.248011
					Longitude
					-107.808814

DESIGN #2 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')	
1390.6	35.48	213.79	1316.5	-294.7	-197.2	354.6	354.6	EOB @ 35.48° Inc. / 213.79° Azm	
5311.7	35.48	213.79	4509.5	-2185.9	-1463.0	2530.3	2630.3	Drop 3° / 100'	
6494.3	0.00	0.00	5618.0	-2480.6	-1660.2	2984.9	2984.9	EOD @ Vertical	
8544.3	0.00	0.00	7668.0	-2480.6	-1660.2	2984.9	2984.9	TD @ 8544.3' MD / 7668.0' TVD	

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
199.0	4.90	220.70	198.8	-6.4	-5.5	8.4	8.5	First MWD Survey @ 199.0' MD / 198.8' TVD
8489.0	2.80	225.40	7638.7	-2491.5	-1668.5	2998.6	3007.4	Projection to TD @ 8489.0' MD / 7638.7' TVD

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton Federal 30-21W	7638.0	-2480.6	-1660.2	1521092.88	2344503.68	39.241200	-107.814676	Circle (Radius: 50.0)

