

Bruton 19-06W
Mesa County, CO
Q171191 & RM-171009
Design #2

Company Name: Laramie Energy, LLC
Bruton 19-06W
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 10/2/2017

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



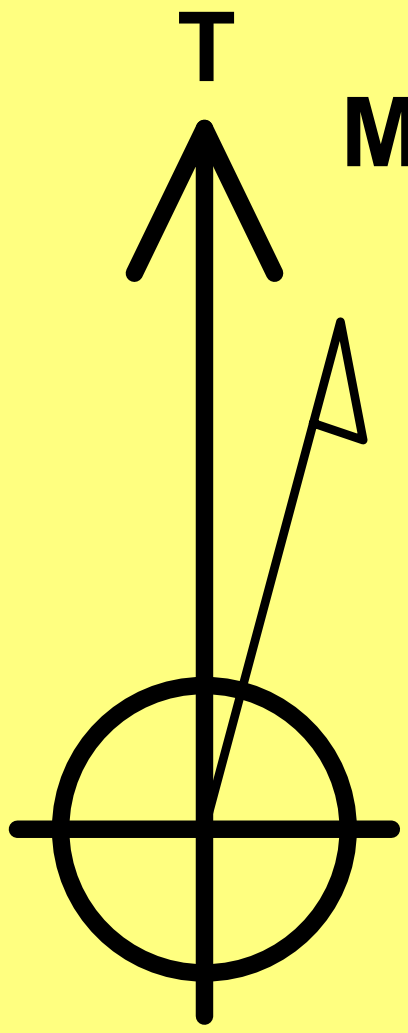
WELL DETAILS: Bruton 19-06W

+N/-S	+E/-W	Northing	Ground Level:	2262.0	Longitude
0.0	0.0	1528993.70	Easting	2344595.14	-107.815064

First MWD Survey @ 203.0' MD / 203.0' TVD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2551.0	2608.3	G' Sand
4351.0	4458.5	Williams Fork
5651.0	5786.4	TOG
6651.0	6786.4	Cameo
7311.0	7446.4	Base Cameo Coal
7351.0	7486.4	Rollins



Azimuths to True North
Magnetic North: 9.56°

Strength: 51387.7snT
Dip Angle: 65.42°
Date: 9/18/2017
Model: IGRF2015

Design #2 Annotations

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100)
645.9	13.38	339.62	641.9	48.6	-18.0	51.8	51.8	EOB @ 13.38° Inc. / 339.62° Azm
5340.6	13.38	339.62	5209.2	1066.7	-396.2	1137.9	1137.9	Drop 3° / 100'
5786.4	0.00	339.62	5651.0	1115.2	-414.2	1189.7	1189.7	EOD @ Vertical
7736.4	0.00	0.00	7601.0	1115.2	-414.2	1189.7	1189.7	TD @ 7736' MD / 7601' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 19-06W	7601.0	1115.2	-414.2	1530119.14	2344209.48	39.265954	-107.816527	Circle (Radius: 50.0)
- plan hits target center								

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
203.0	1.70	304.00	203.0	1.7	-2.5	2.4	3.0	First MWD Survey @ 203.0' MD / 203.0' TVD
7743.0	2.90	236.60	7601.9	1128.1	-442.2	1211.5	1272.2	Projection to TD @ 7743.0' MD / 7601.9' TVD

