

Bruton 19-04E
Mesa County, CO
Q171125 & RM-170945
Design #2

Company Name: Laramie Energy, LLC
Bruton 19-04E
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 9/11/2017

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



DIRECTIONAL DRILLING



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Azimuths to True North
Magnetic North: 9.57°

Strength: 51393.5snT
Dip Angle: 65.42°
Date: 8/30/2017
Model: IGRF2015

Design #2 Annotations										
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation		
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100)		
1167.2	32.02	55.92	1112.5	162.8	240.6	290.5	290.5	EOB @ 32.02° Inc. / 55.92° Azm		
5363.4	32.02	55.92	4670.4	1409.5	2083.1	2515.2	2515.2	Drop 3° / 100'		
6430.6	0.00	55.92	5683.0	1572.3	2323.7	2805.7	2805.7	EOD @ Vertical		
8380.6	0.00	0.00	7633.0	1572.3	2323.7	2805.7	2805.7	TD @ 8381' MD / 7633' TVD		

ANNOTATIONS										
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation		
204.0	4.10	68.30	203.8	2.7	6.8	7.1	7.3	First MWD Survey @ 204.0' MD / TVD		
8410.0	0.80	190.30	7672.3	1583.9	2340.3	2825.6	2846.9	Projection to TD @ 8410.0' MD / 7672.3' TVD		

WELL DETAILS: Bruton 19-04E						
+N/-S	+E/-W	Northing	Ground Level: Easting	7262.0 Latitude	Longitude	
0.0	0.0	1529017.69	2344602.08	39.262958	-107.815042	

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
2583.0	2901.5	G' Sand	
4383.0	5024.4	Williams Fork	
5683.0	6430.6	TOG	
6683.0	7430.6	Cameo	
7343.0	8090.6	Base Cameo Coal	
7383.0	8130.6	Rollins	

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL - Bruton 19-04E - plan hits target center	7633.0	1572.3	2323.7	1530530.29	2346965.12	39.267275	-107.806834	Circle (Radius: 50.0)

