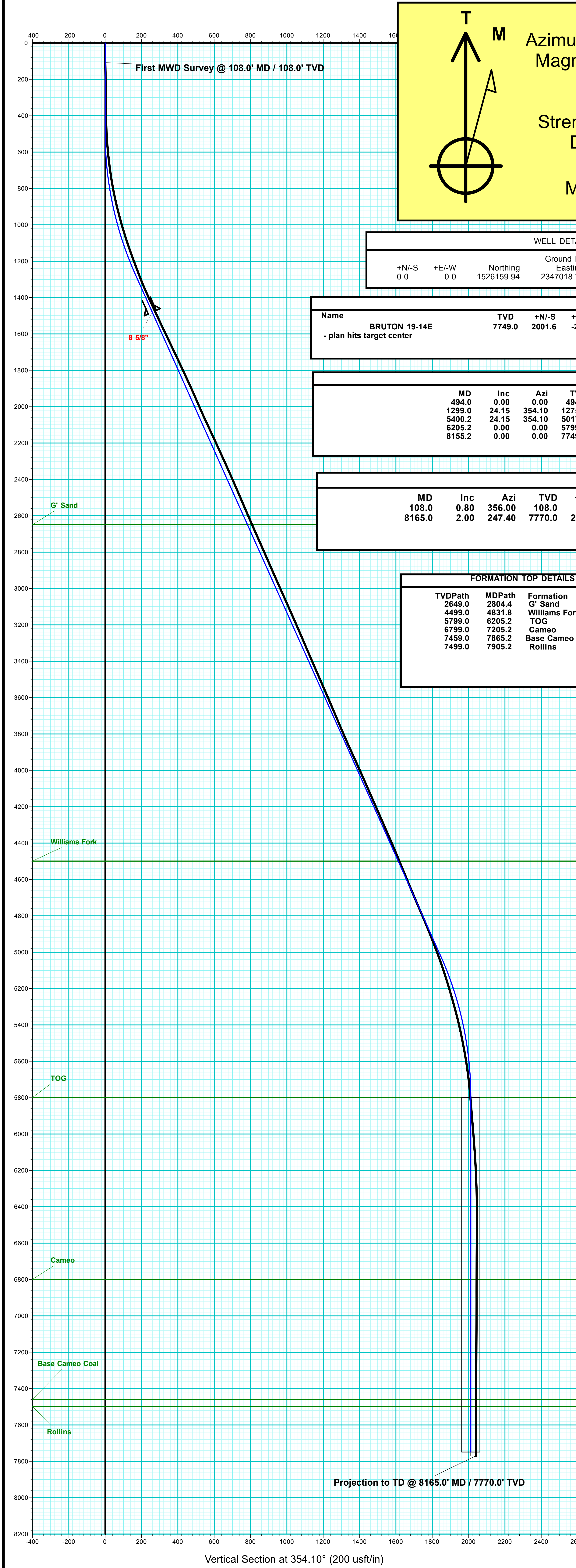


Bruton 19-14E
Mesa County, CO
Q170939 & RM-170796
Design #2

Company Name: Laramie Energy, LLC
Bruton 19-14E
Mesa County, CO
Rig: H&P #290
Created By: Will Jircik
Date: 7/31/2017

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



T

M

Azimuths to True North

Magnetic North: 9.58°

Strength: 51401.7snT

Dip Angle: 65.42°

Date: 7/20/2017

Model: IGRF2015

WELL DETAILS: Bruton 19-14E					
+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude	Longitude
0.0	0.0	1526159.94	7425.0 2347018.76	39.255283	-107.806253

DESIGN TARGET DETAILS								
Name	BRUTON 19-14E	TVD	7749.0	+N/-S	2001.6	+E/-W	-206.8	Shape
- plan hits target center				Northing	1528166.17	Easting	2346862.87	Circle (Radius: 50.0)

Design #2								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
494.0	0.00	0.00	494.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')
1299.0	24.15	354.10	1275.4	166.3	-17.2	167.2	167.2	EOB @ 24.15° Inc. / 354.10° Azm
5400.2	24.15	354.10	5017.6	1835.3	-189.6	1845.1	1845.1	Drop 3° / 100'
6205.2	0.00	0.00	5799.0	2001.6	-206.8	2012.3	2012.3	EOD @ Vertical
8155.2	0.00	0.00	7749.0	2001.6	-206.8	2012.3	2012.3	TD @ 8155' MD / 7749' TVD

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
108.0	0.80	356.00	108.0	0.8	-0.1	0.8	0.8	First MWD Survey @ 108.0' MD / 108.0' TVD
8165.0	2.00	247.40	7770.0	2029.4	-206.3	2039.9	2067.8	Projection to TD @ 8165.0' MD / 7770.0' TVD

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2649.0	2804.4	G' Sand
4499.0	4831.8	Williams Fork
5799.0	6205.2	TOG
6799.0	7205.2	Cameo
7459.0	7865.2	Base Cameo Coal
7499.0	7905.2	Rollins

