

Gunderson 0994-13-11W
Mesa County, CO
Q180295 & RM-180259
Design #3

Company Name: Laramie Energy, LLC
Gunderson 0994-13-11W
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 3/16/2018

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: 9.45°

Strength: 51321.9snT

Dip Angle: 65.41°

Date: 3/6/2018

Model: USER DEFINED

DESIGN #3 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
175.0	0.00	0.00	175.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
607.0	12.96	354.25	603.3	48.4	-4.9	48.7	48.7	EOB @ 12.96° Inc. / 354.25° Azm	
5445.6	12.96	354.25	5318.7	1128.1	-113.6	1133.8	1133.8	Drop 3° / 100'	
5877.6	0.00	354.25	5747.0	1176.5	-118.5	1182.5	1182.5	EOD @ Vertical	
7727.6	0.00	0.00	7597.0	1176.5	-118.5	1182.5	1182.5	TD @ 7727.6' MD / 7597.0' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Gunderson 0994-13-11W	7727.6	+21176.5	-118.5	1534323.83	2339010.81	39.277129	-107.835265

WELL DETAILS: Gunderson 0994-13-11W					
				7272.0	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1533144.65	2339099.02	39.273899	-107.834846

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4347.0	4448.5	Ohio Creek
4547.0	4653.8	Williams Fork
5747.0	5877.6	TOG
6947.0	7077.6	Cameo
7307.0	7437.6	Base Cameo Coal
7347.0	7477.6	Rollins

ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
1467.0	13.96	356.82	1442.4	235.5	-20.0	236.4	238.3	Gyro Tie-In @ 1467.0' MD / 1442.4' TVD
7694.0	2.00	247.30	7559.3	1189.4	-133.8	1196.8	1257.9	Projection to TD @ 7694.0' MD / 7559.3' TVD

