

Gunderson 0994-14-11E  
Mesa County, CO  
Q180360 & RM-180311  
Design #2

Company Name: Laramie Energy, LLC  
Gunderson 0994-14-11E  
Mesa County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 3/30/2018

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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M

Azimuths to True North

Magnetic North: 9.45°

Strength: 51316.8snT

Dip Angle: 65.41°

Date: 3/22/2018

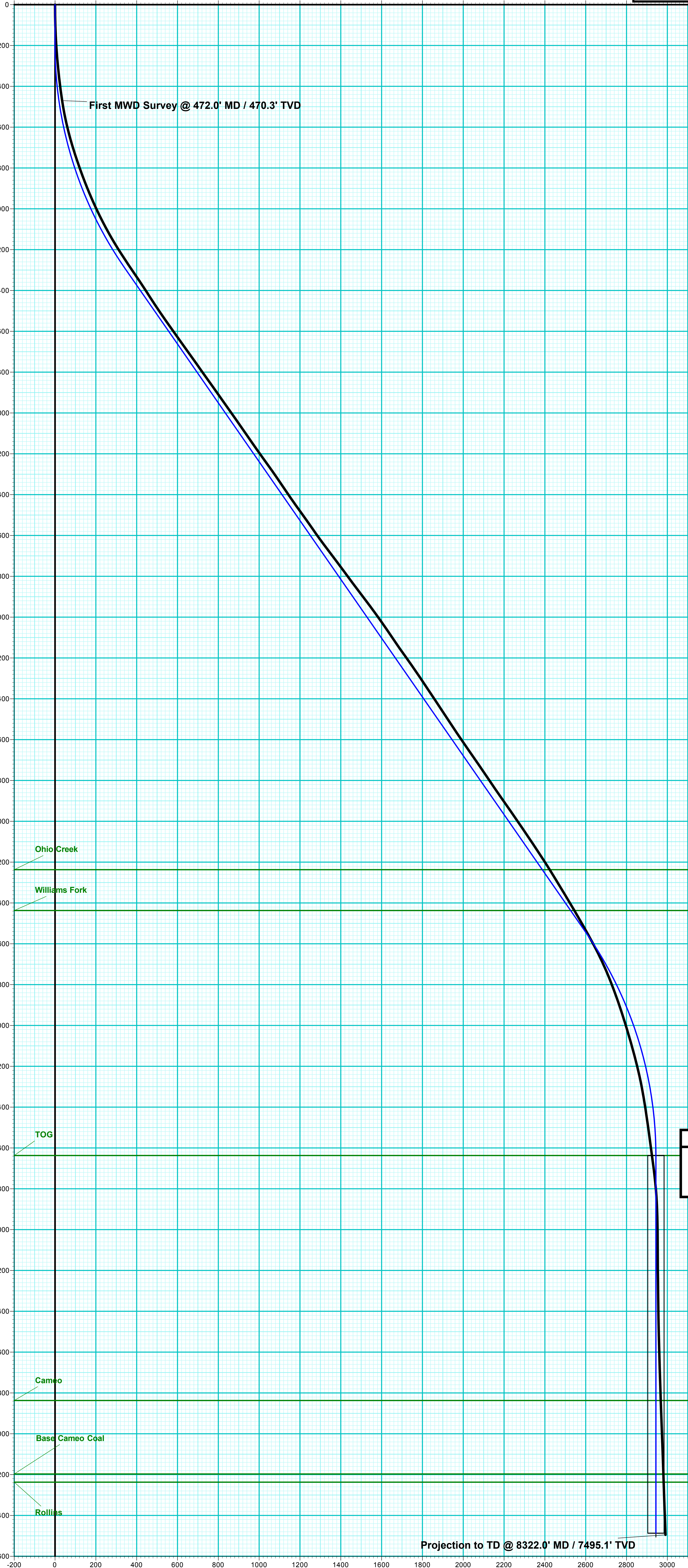
Model: USER DEFINED

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')
1358.9	34.77	292.04	1289.1	128.0	-316.0	340.9	340.9	EOB @ 34.77° Inc. / 292.04° Azm
5325.9	34.77	292.04	4547.9	977.0	-2412.8	2603.1	2603.1	Drop 3° / 100'
6484.8	0.00	0.00	5637.0	1105.0	-2728.8	2944.0	2944.0	EOD @ Vertical
8334.8	0.00	0.00	7487.0	1105.0	-2728.8	2944.0	2944.0	TD @ 8334.8' MD / 7487.0' TVD

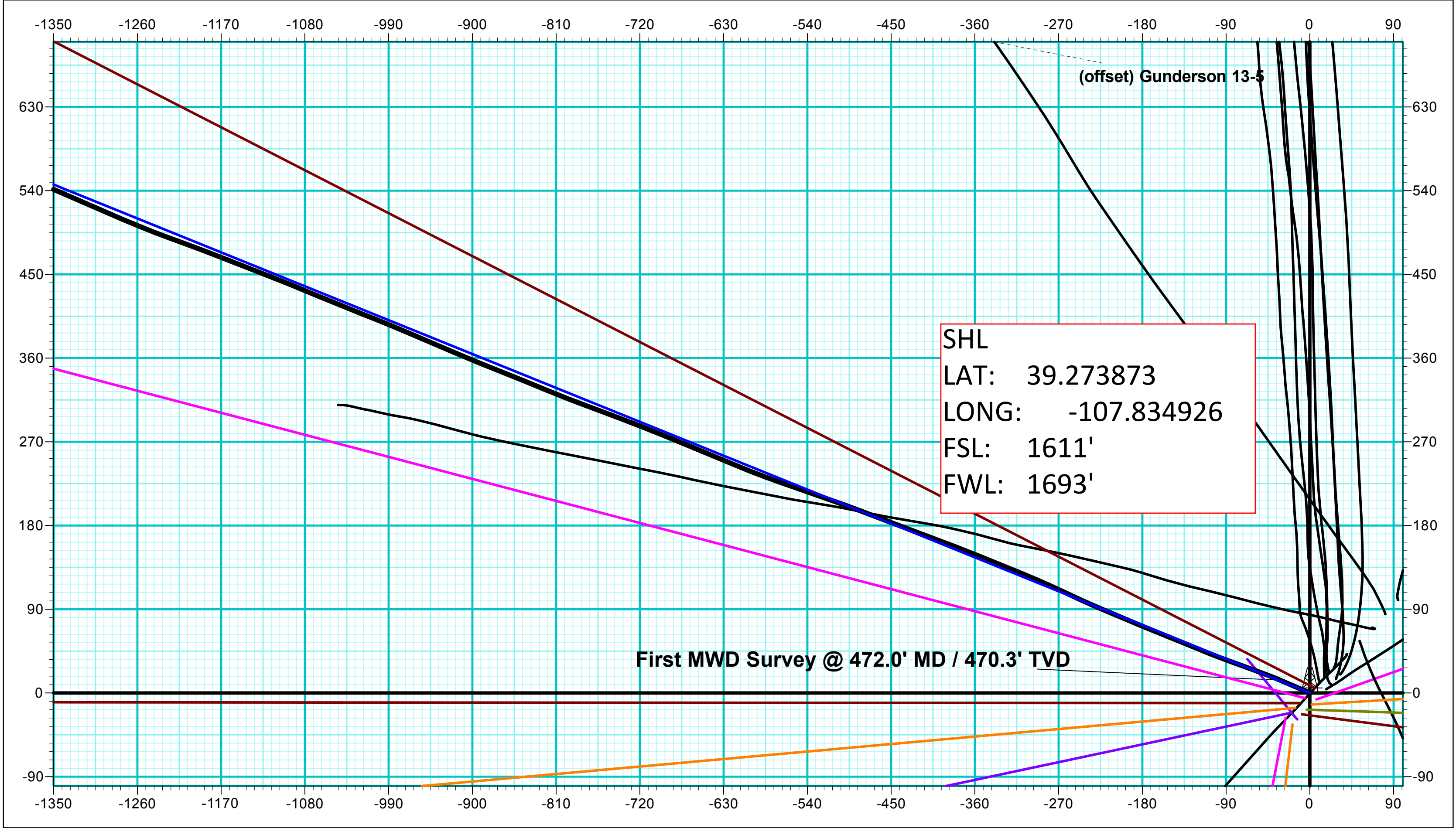
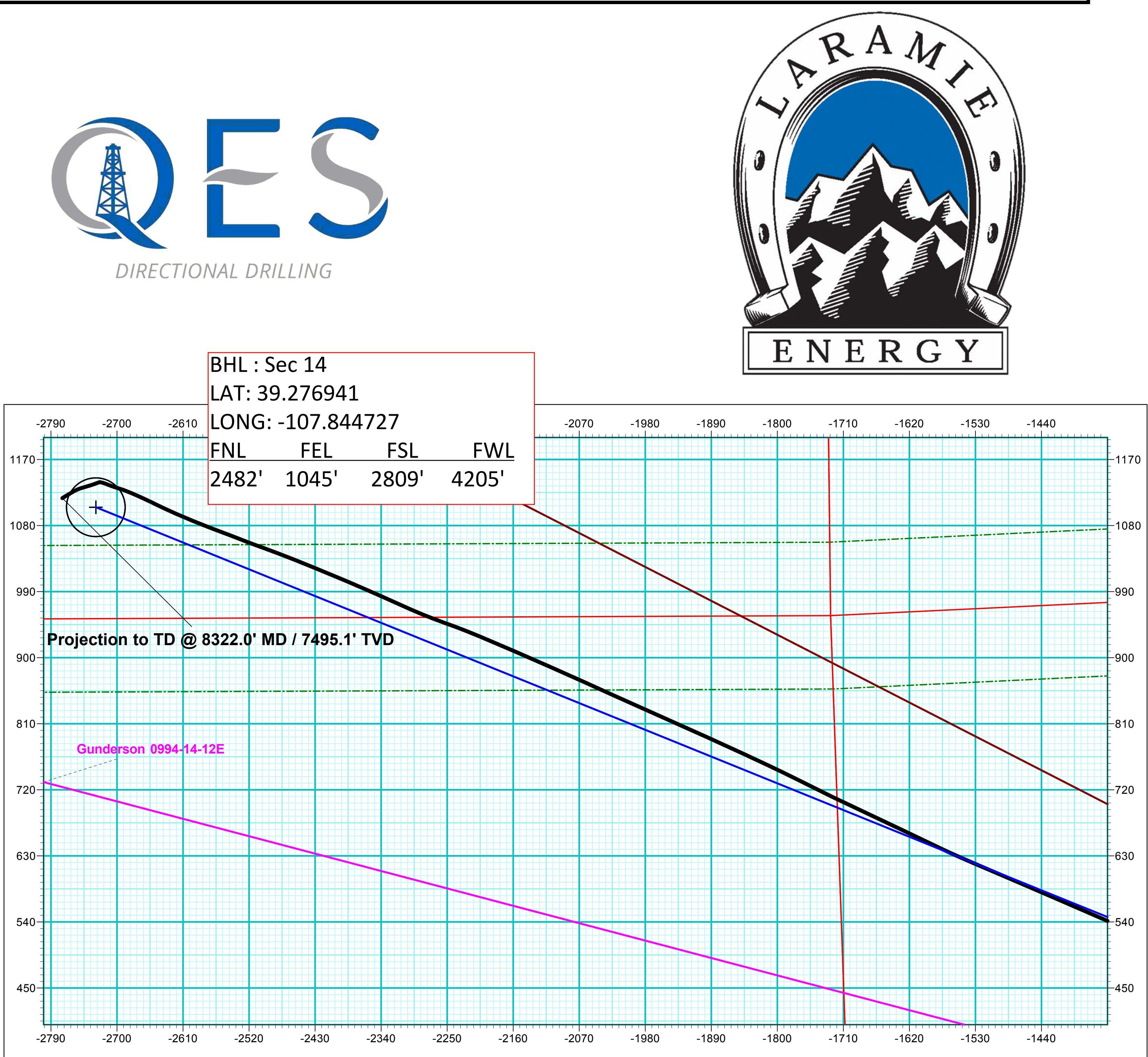
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4237.0	4947.4	Ohio Creek
4437.0	5190.9	Williams Fork
5637.0	6484.8	TOG
6837.0	7684.8	Cameo
7197.0	8044.8	Base Cameo Coal
7237.0	8084.8	Rollins

WELL DETAILS: Gunderson 0994-14-11E					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1533135.77	2339076.14	39.273873	-107.834926

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Gunderson 0994-14-11E D#2	7487.0	1105.0	-2728.8	1534310.49	2336376.63	39.276906	-107.844566
						Shape	Circle (Radius: 40.0)



Vertical Section at 292.04° (200 usft/in)



ANNOTATIONS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
472.0	8.50	293.30	470.3	13.8	-32.1	34.9	34.9	First MWD Survey @ 472.0' MD / 470.3' TVD
8322.0	3.40	238.70	7495.1	1117.4	-2774.4	2991.0	3009.5	Projection to TD @ 8322.0' MD / 7495.1' TVD

