

Gunderson 0994-14-15E
Mesa County, CO
Q180432 & RM-180370
Design #1

Company Name: Laramie Energy, LLC
Gunderson 0994-14-15E
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 4/14/2018

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

T

M

Azimuths to True North

Magnetic North: 9.45°

Strength: 51312.4snT

Dip Angle: 65.41°

Date: 4/5/2018

Model: USER DEFINED

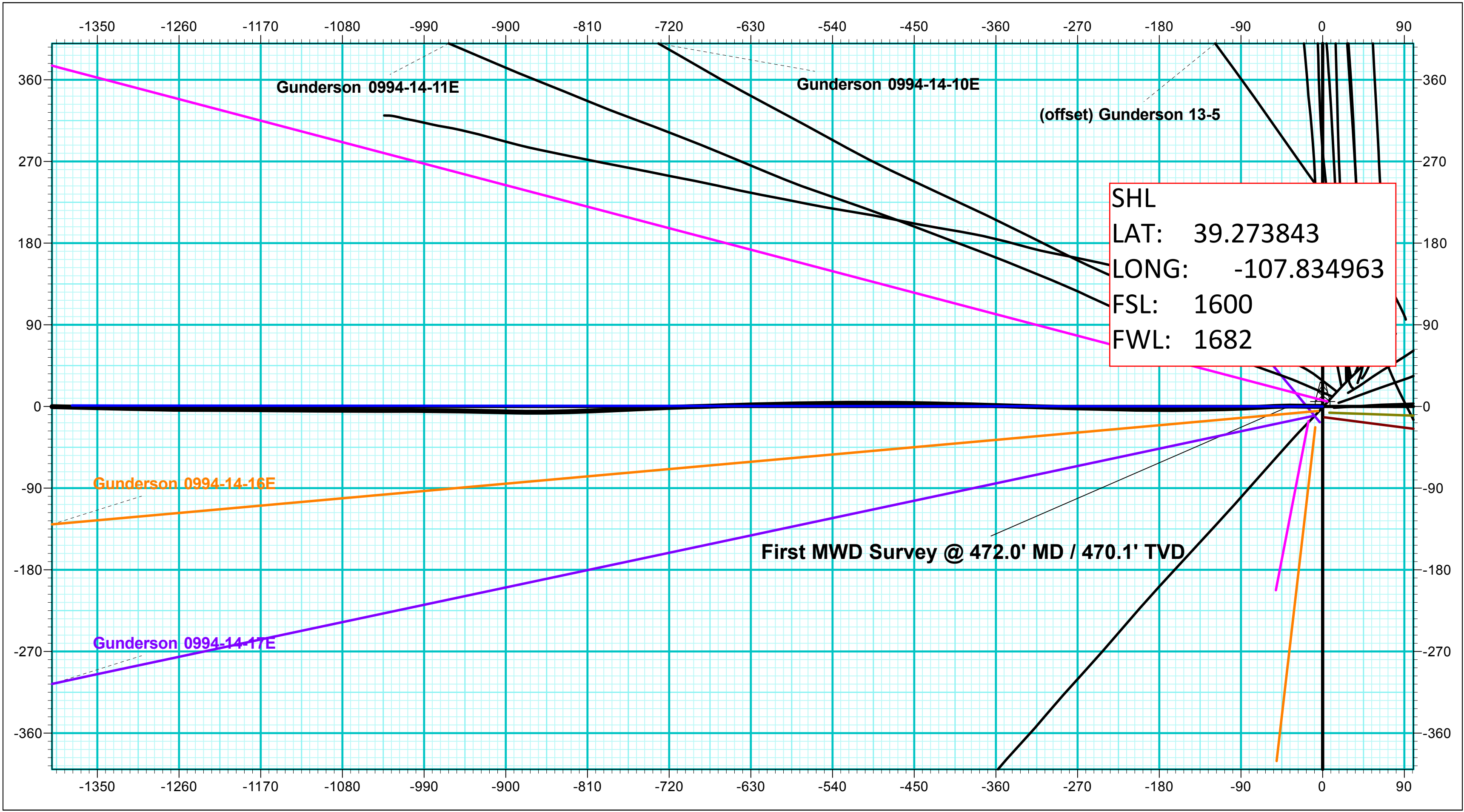
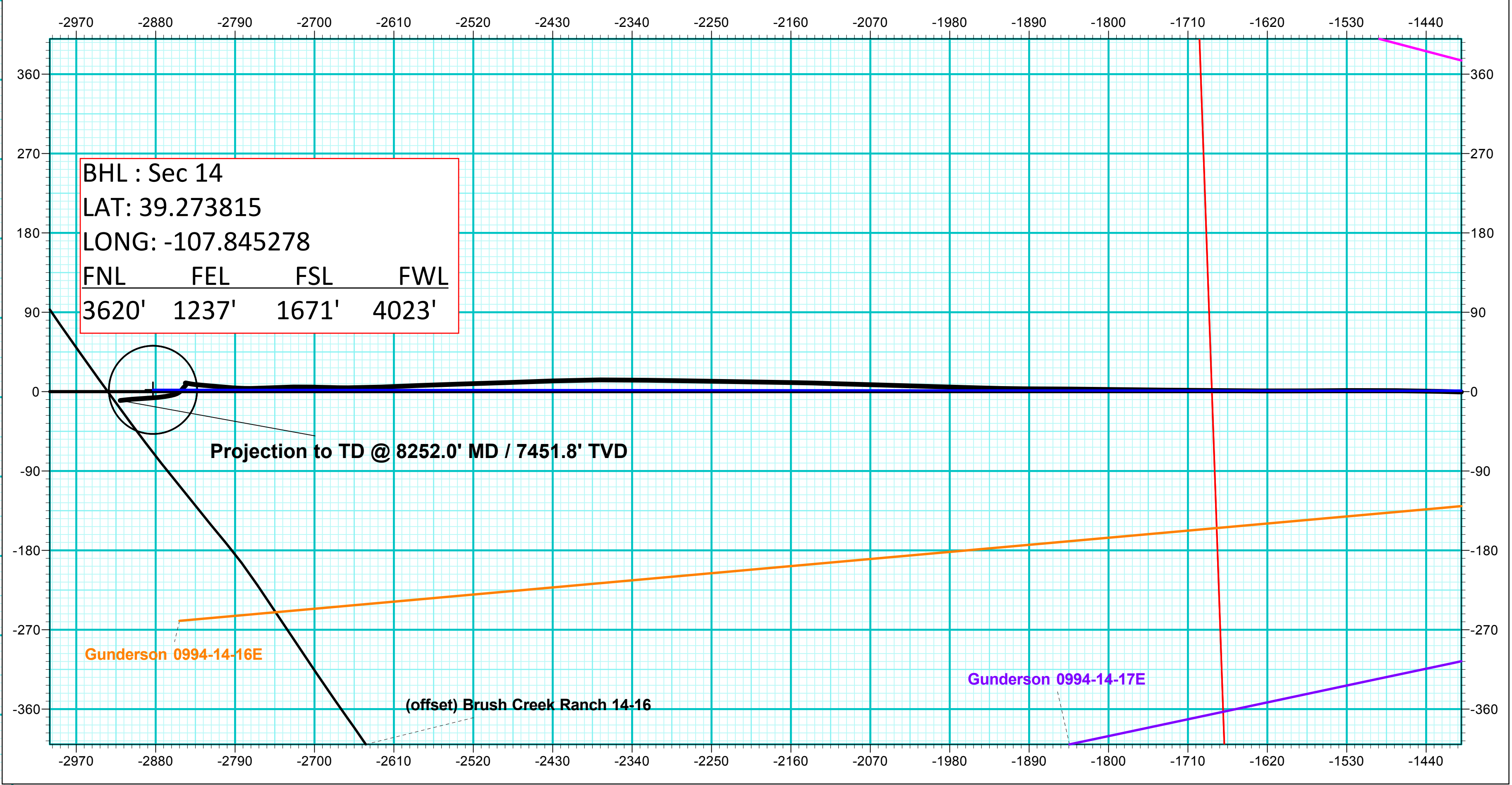
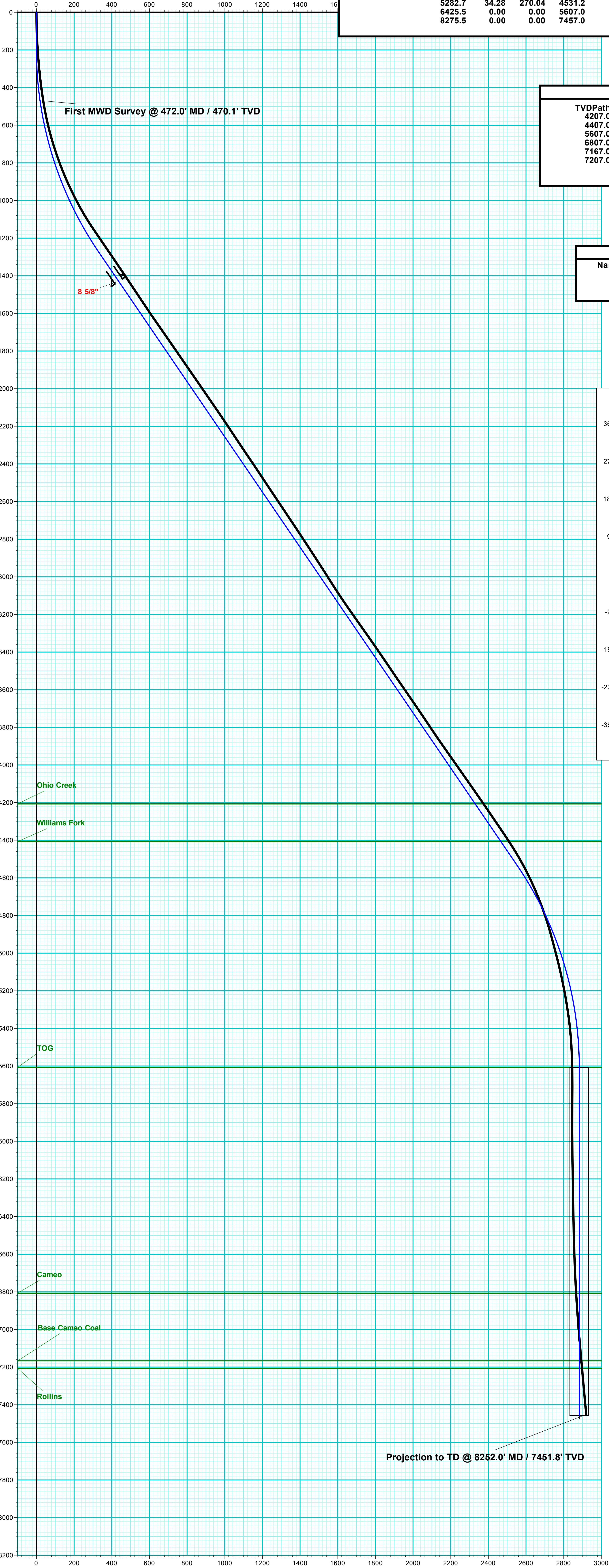
DESIGN #1 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1342.8	34.28	270.04	1275.8	0.2	-331.8	331.8	331.8	EOB @ 34.28° Inc. / 270.04° Azm	
5282.7	34.28	270.04	4531.2	1.8	-2551.2	2551.2	2551.2	Drop 3° / 100'	
6425.5	0.00	0.00	5607.0	2.0	-2883.0	2883.0	2883.0	EOD @ Vertical	
8275.5	0.00	0.00	7457.0	2.0	-2883.0	2883.0	2883.0	TD @ 8275.5' MD / 7457.0' TVD	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4207.0	4890.4	Ohio Creek
4407.0	5132.4	Williams Fork
5607.0	6425.5	TOG
6807.0	7625.5	Cameo
7167.0	7985.5	Base Cameo Coal
7207.0	8025.5	Rollins

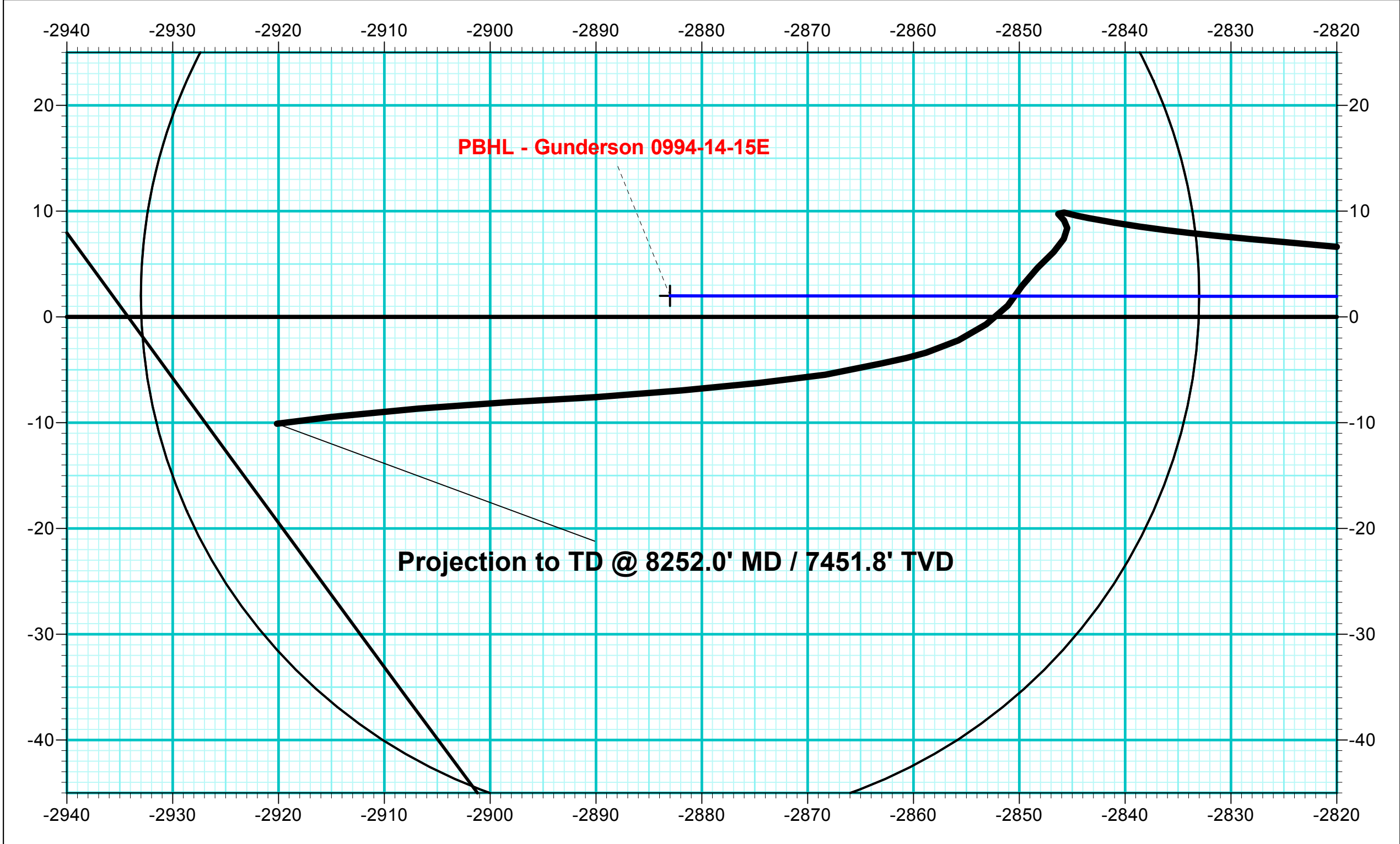


DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Gunderson 0994-14-15E	7272.0	2.0	-2883.0	1533201.20	2336183.39	39.273848	-107.845147
				Shape: Circle (Radius: 50.0)			

WELL DETAILS: Gunderson 0994-14-15E					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1533125.12	2339065.39	39.273843	-107.834963



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation	
472.0	8.80	270.70	470.1	0.4	-36.2	36.2	36.2	First MWD Survey @ 472.0' MD / 470.1' TVD	
8252.0	5.40	262.90	7451.8	-10.1	-2920.1	2920.1	2930.3	Projection to TD @ 8252.0' MD / 7451.8' TVD	



Vertical Section at 270.04° (200 usft/in)