

Gunderson 0994-14-17E
Mesa County, CO
Q180502 & RM-180431
Design #1

Company Name: Laramie Energy, LLC
Gunderson 0994-14-17E
Mesa County, CO
Rig: H&P #522
Created By: Will Jircik
Date: 5/01/2018

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: 9.44°

Strength: 51307.6snT

Dip Angle: 65.41°

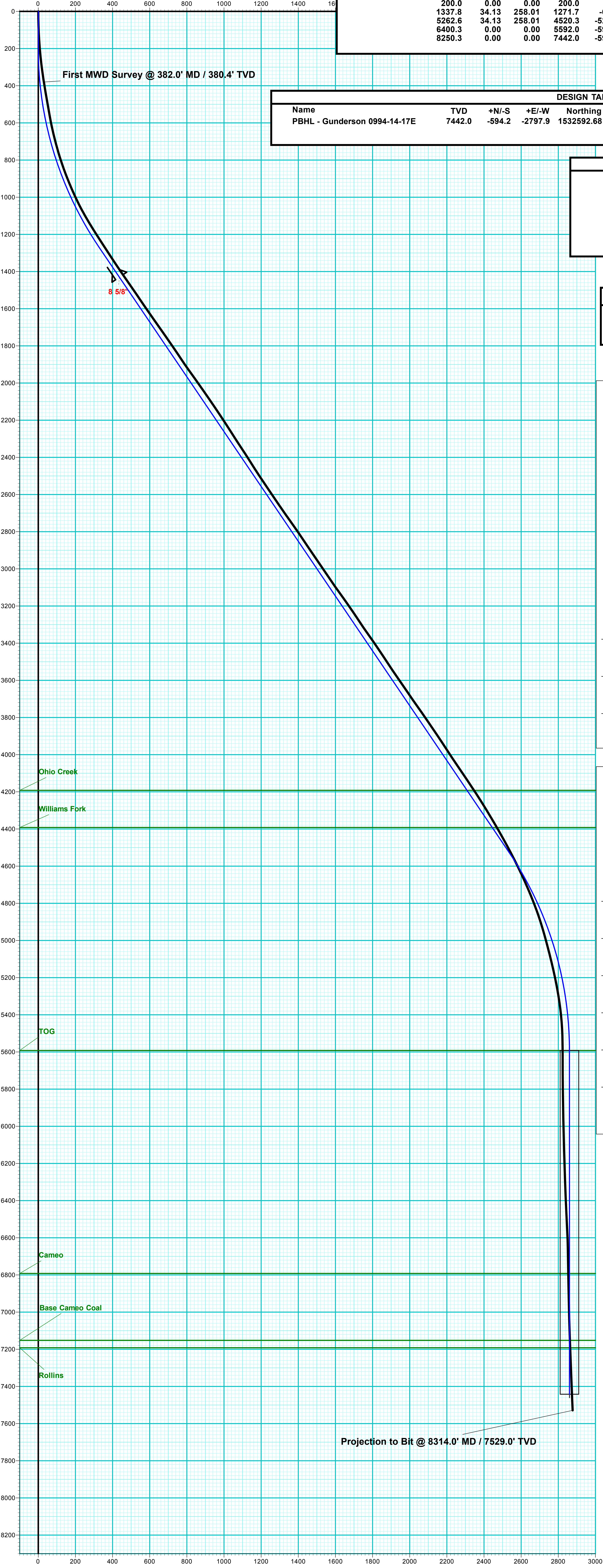
Date: 4/20/2018

Model: USER DEFINED

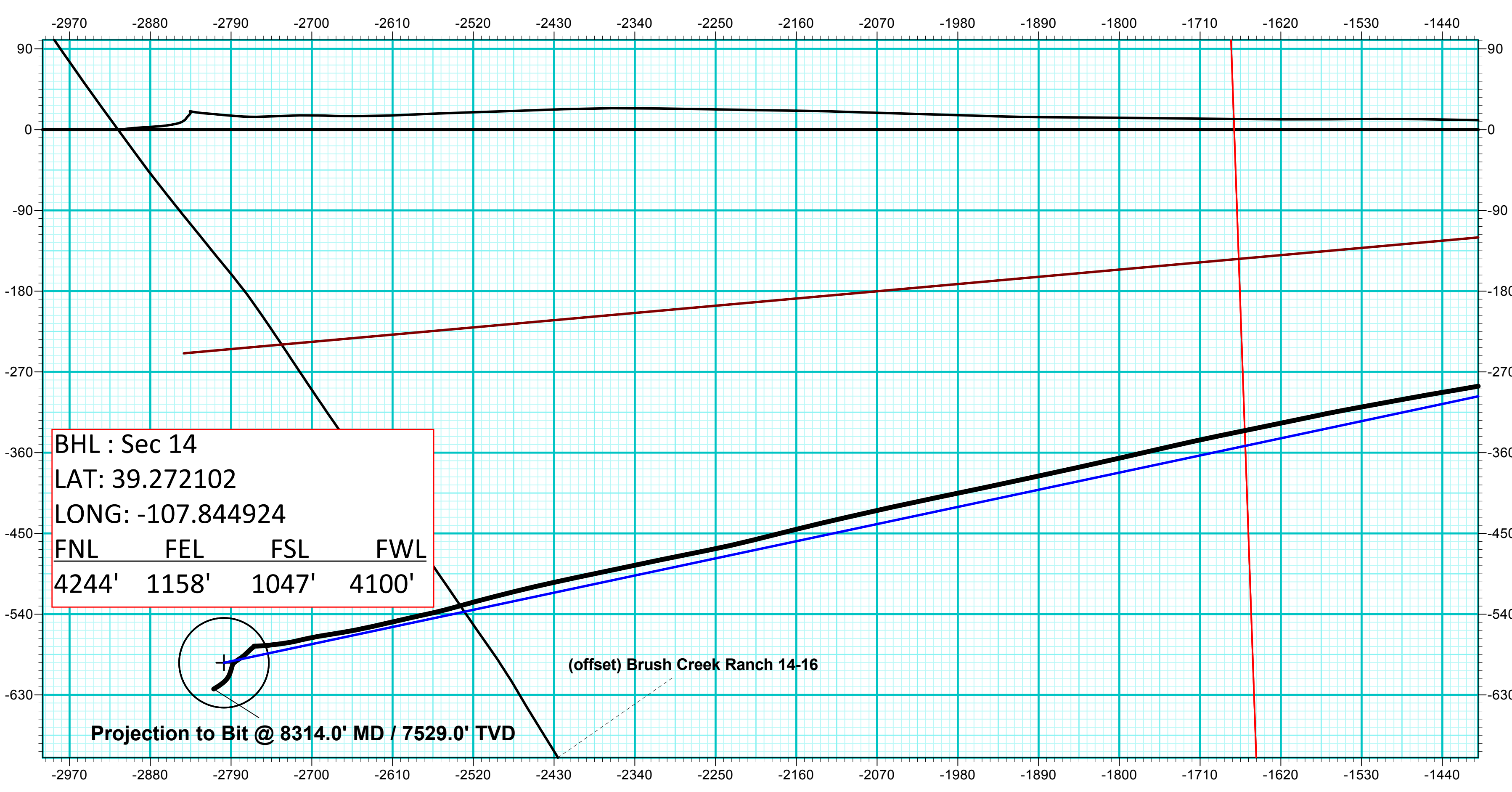
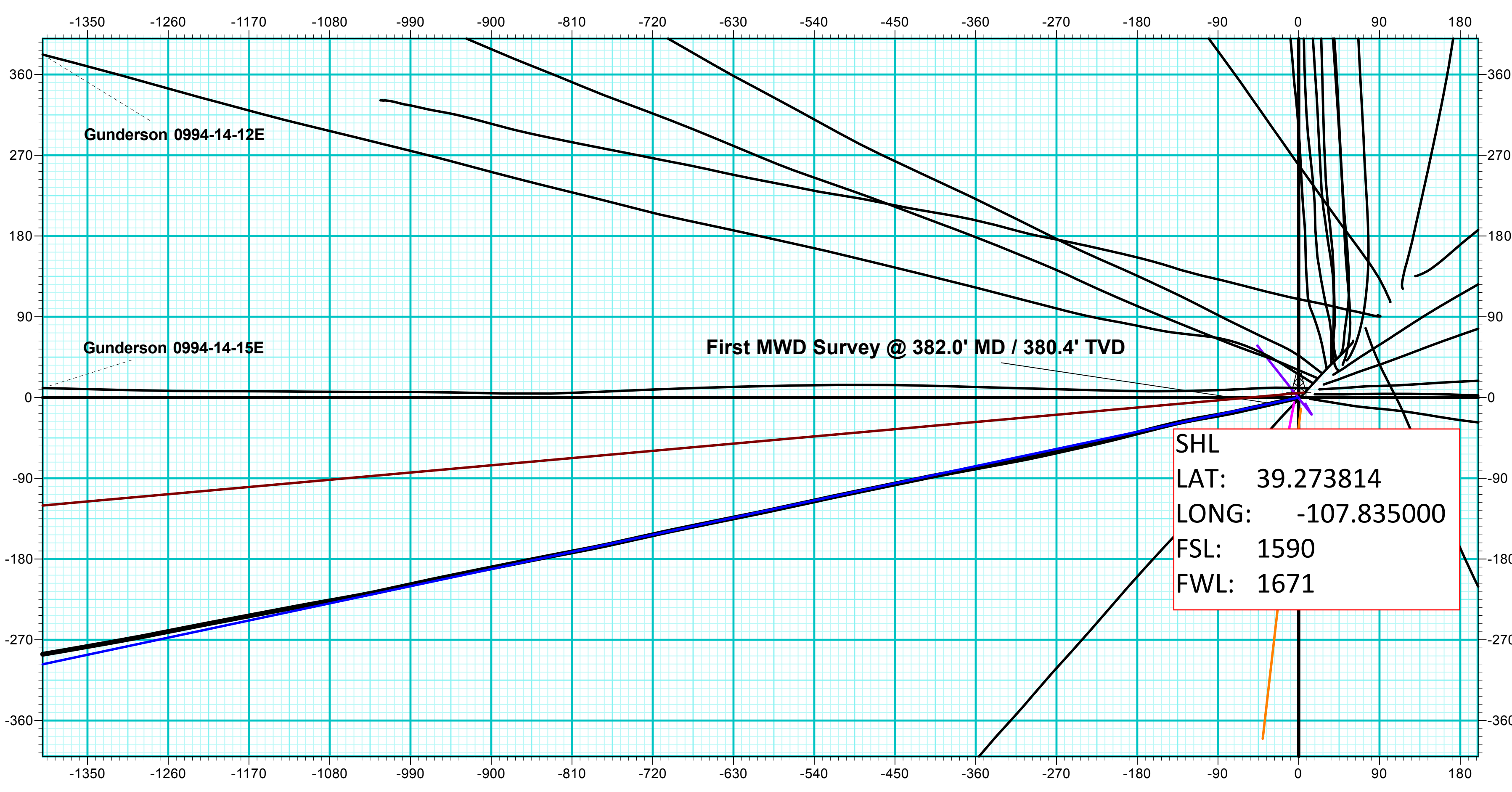
DESIGN #1 ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	KOP (Build 3° / 100')	
1337.8	34.13	258.01	1271.7	-68.4	-321.8	329.0	329.0	EOB @ 34.13° Inc. / 258.01° Azm	
5262.6	34.13	258.01	4520.3	-525.9	-2476.0	2531.3	2531.3	Drop 3° / 100'	
6400.3	0.00	0.00	5592.0	-594.2	-2797.9	2860.3	2860.3	EOD @ Vertical	
8250.3	0.00	0.00	7442.0	-594.2	-2797.9	2860.3	2860.3	TD @ 8250.3' MD / 7442.0' TVD	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Gunderson 0994-14-17E	7442.0	-594.2	-2797.9	1532592.68	2336242.44	39.272182	-107.844883
				Shape Circle (Radius: 50.0)			

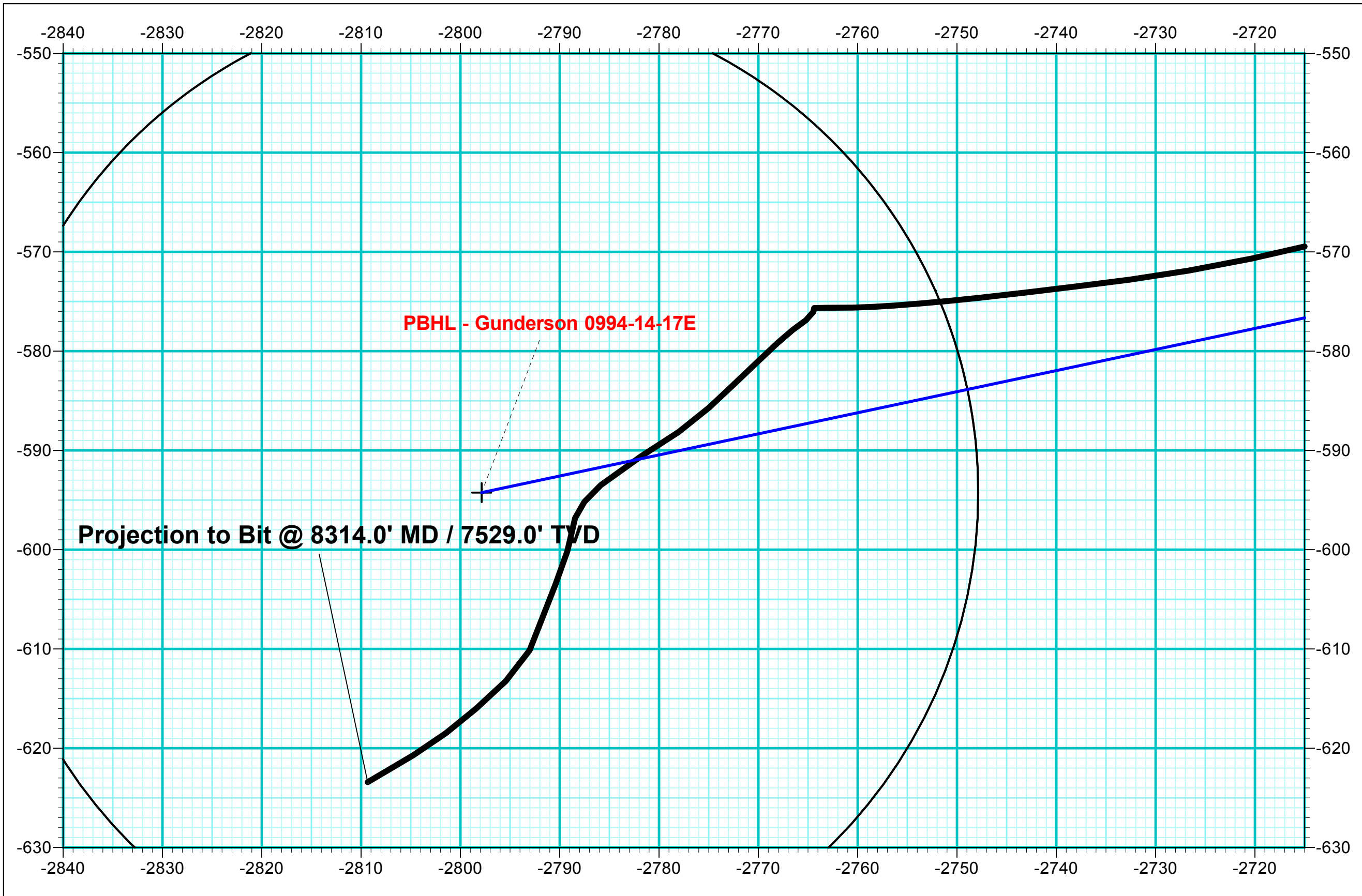
FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
4192.0	4865.9	Ohio Creek
4392.0	5107.5	Williams Fork
5592.0	6400.3	TOG
6792.0	7600.3	Cameo
7162.0	7960.3	Base Cameo Coal
7192.0	8000.3	Rollins



WELL DETAILS: Gunderson 0994-14-17E						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1533114.83	2339054.64	39.273814	-107.835000	



ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation	
382.0	9.10	257.10	380.4	-6.8	-29.5	30.3	30.3	First MWD Survey @ 382.0' MD / 380.4' TVD	
8314.0	2.60	239.00	7529.0	-623.4	-2809.3	2877.6	2892.8	Projection to Bit @ 8314.0' MD / 7529.0' TVD	



Vertical Section at 258.01° (200 usft/in)