

CC Federal 0697-03-08W  
Garfield County, CO  
Q191388 & RM-191204  
Design #3

Company Name: Laramie Energy, LLC  
CC Federal 0697-03-08W  
Garfield County, CO  
Rig: H&P #522  
Created By: Will Jircik  
Date: 23:46, August 12 2019

PROJECT DETAILS:	Garfield 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

FORMATION TOP DETAILS			
TVDPath	MDPath	Formation	
606.0	606.4	Mahogany	
4929.0	5190.6	Wasatch 'G' Sand	
6629.0	6999.4	Ohio Creek	
6779.0	7159.0	Williams Fork	
7579.0	7981.9	TOG	
9229.0	9631.9	Cameo	
9459.0	9861.9	Base Cameo Coal	
9479.0	9881.9	Rollins	
9717.0	10119.9	Cozzette	
9990.0	10392.9	Corcoran	

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC Federal 0697-03-08W	10240.0	727.5	2250.5	1640081.11	2235814.34	39.559507	-108.210801

WELL DETAILS: CC Federal 0697-03-08W						
+N/-S	+E/-W	Northing	Easting	8609.0	Latitude	Longitude
0.0	0.0	1639421.25	2233543.09		39.557510	-108.218783

DESIGN ANNOTATIONS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.0	KOP/ (Build 3.00"/100')	
1065.9	19.98	72.09	1052.5	35.3	109.3	114.9	114.9	EOB @ 19.98° Inc / 72.09° Azm	
7316.0	19.98	72.09	6926.5	692.2	2141.1	2250.2	2250.2	Drop @ 3.00"/100'	
7981.9	0.00	0.00	7579.0	727.5	2250.5	2365.2	2365.2	EOD @ Vertical	
10642.9	0.00	0.00	10240.0	727.5	2250.5	2365.2	2365.2	TD @ 10642.9' MD / 10240.0' TVD	



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Azimuths to True North

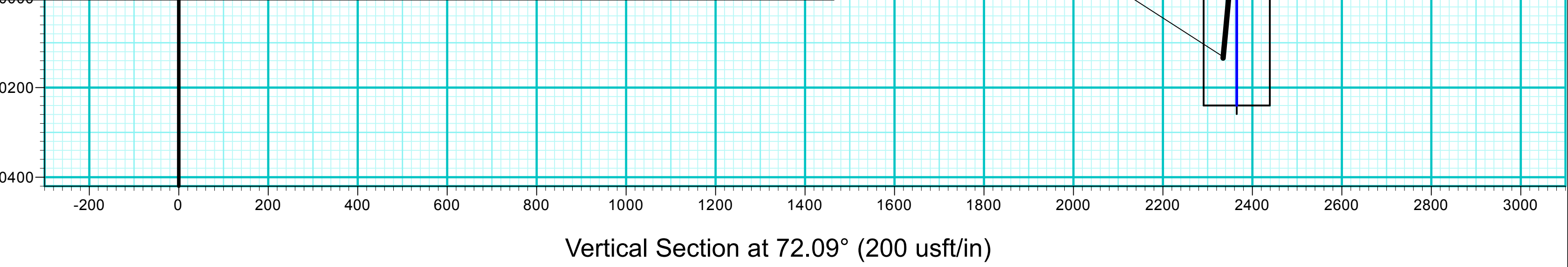
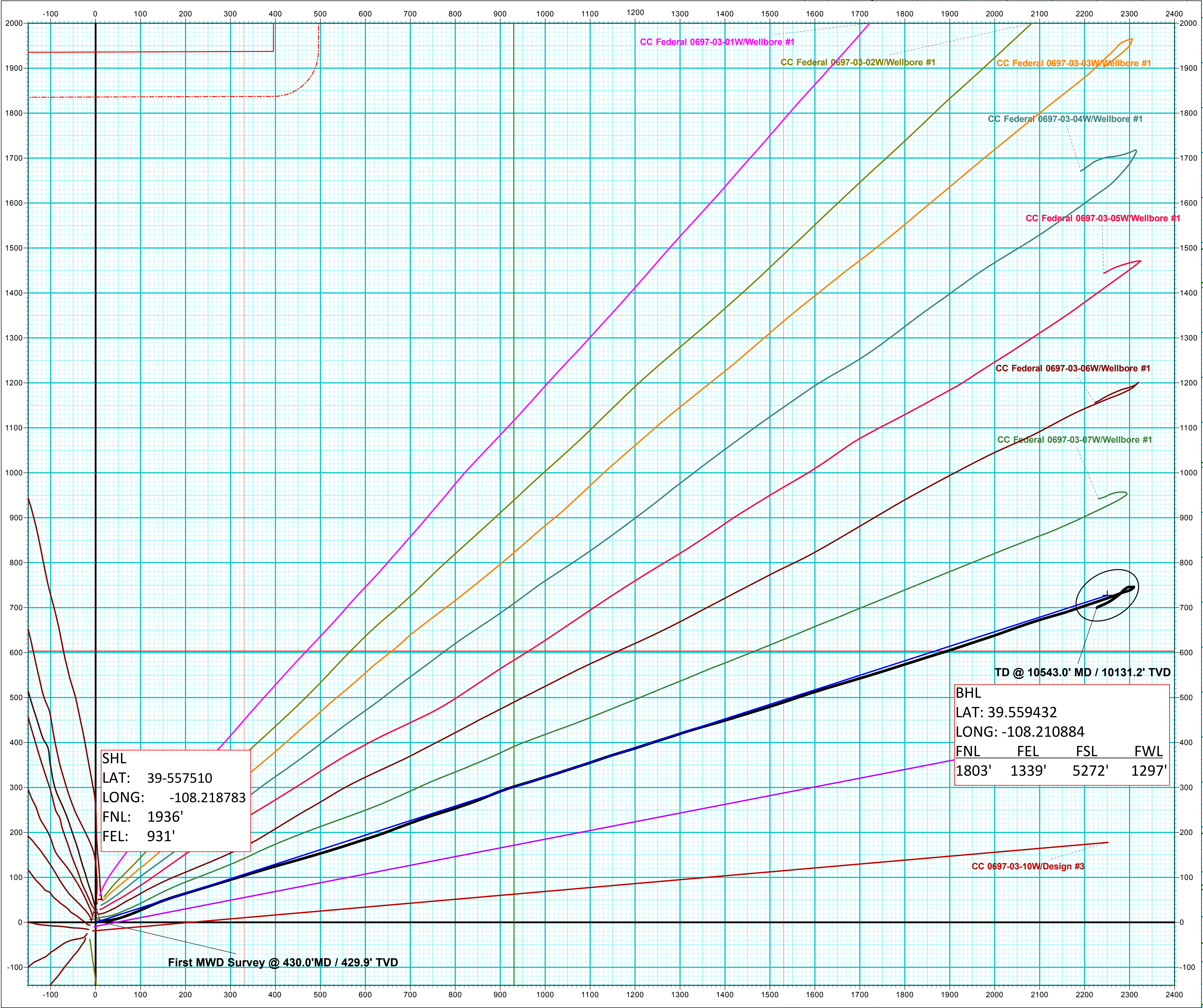
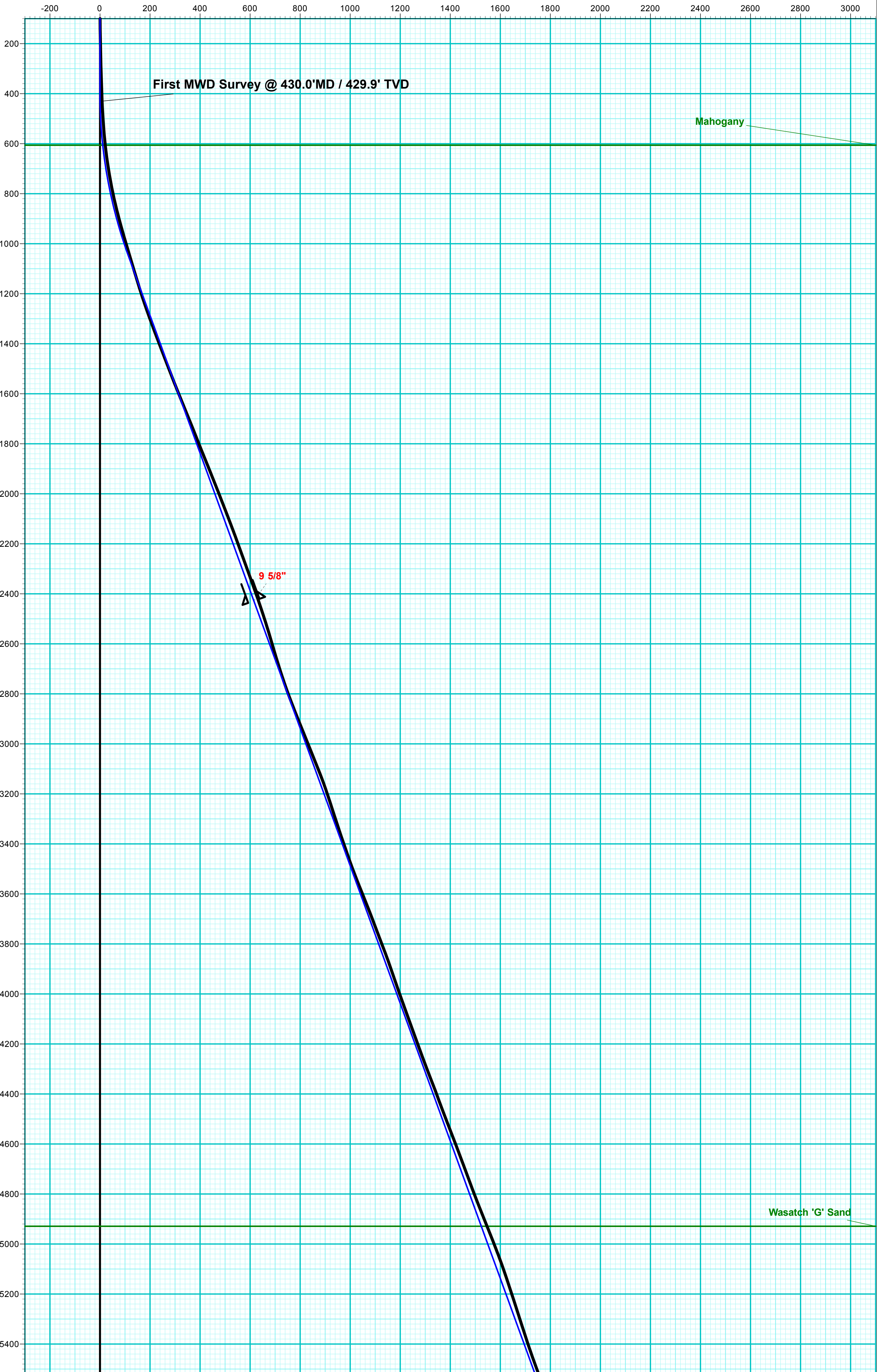
Magnetic North: 9.57°

Strength: 51412.6snT

Dip Angle: 65.78°

Date: 8/8/2019

Model: HDGM



Vertical Section at 72.09° (200 usft/in)