

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

WELL DETAILS: CC 0697-03-23W
 8613.0
 +N/-S 0.0 +E/-W 0.0 Northing 1636231.44 Easting 2235845.09 Latitude 39.548945 Longitude -108.210285 B-4

Project: Garfield County, CO
 Site: CC 603-23-32 Pad
 Well: CC 0697-03-23W
 Wellbore: Wellbore #1
 Design: Design #2
 Latitude: 39.548945
 Longitude: -108.210285
 Ground Level: 8613.0
 RKB @ 8643.0usft (H&P #522)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
983.0	986.4	Mahogany
2933.0	2947.2	Wasatch
4683.0	4706.8	Wasatch 'G' Sand
4893.0	4918.0	Fort Union
6433.0	6464.5	Ohio Creek
6733.0	6764.5	Williams Fork
7133.0	7164.5	TOG
8923.0	8954.5	Cameo
9318.0	9349.5	Base Cameo Coal
9333.0	9364.5	Rollins
9533.0	9564.5	Cozzette
9808.0	9839.5	Corcoran

REFERENCE INFORMATION
 Co-ordinate (N/E) Reference: Well CC 0697-03-23W - Slot B-4, True North
 Vertical (TVD) Reference: RKB @ 8643.0usft (H&P #522)
 Section (VS) Reference: Slot - B-4(0.0N, 0.0E)
 Measured Depth Reference: RKB @ 8643.0usft (H&P #522)
 Calculation Method: Minimum Curvature

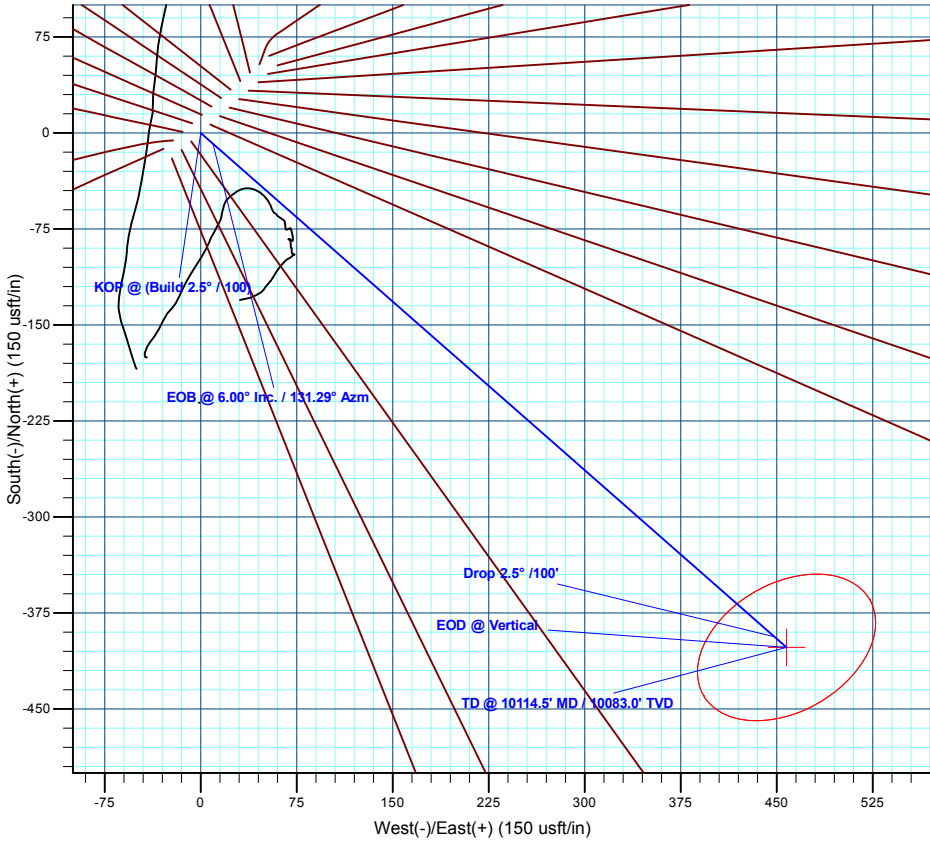
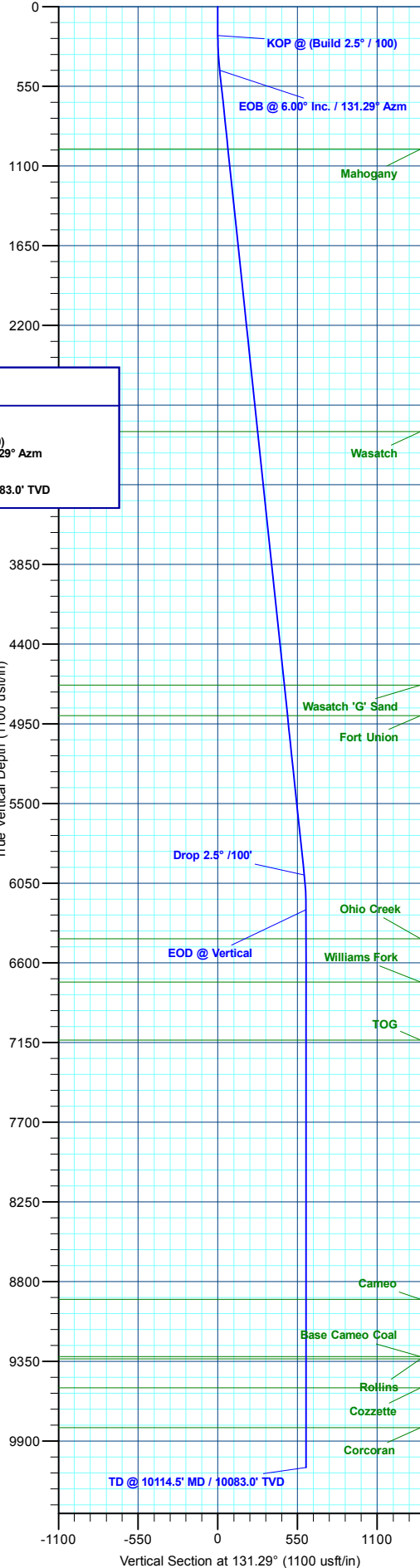
Azimuths to True North
 Magnetic North: 9.43°
 Magnetic Field Strength: 51296.7nT
 Dip Angle: 65.75°
 Date: 10/30/2020
 Model: HDGM2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
03-23W - PBHL	10083.0	-401.9	457.6	1635816.08	2236290.49	39.547842	-108.208662

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
200.0	0.00	0.00	200.0	0.0	0.0	0.00	0.00	0.0	KOP @ (Build 2.5° / 100)
440.1	6.00	131.29	439.6	-8.3	9.4	2.50	131.29	12.6	EOB @ 6.00° Inc. / 131.29° Azm
6024.4	6.00	131.29	5993.4	-393.6	448.2	0.00	0.00	596.5	Drop 2.5° / 100'
6264.5	0.00	0.00	6233.0	-401.9	457.6	2.50	180.00	609.0	EOD @ Vertical
10114.5	0.00	0.00	10083.0	-401.9	457.6	0.00	0.00	609.0	TD @ 10114.5' MD / 10083.0' TVD



Plan: Design #2 (CC 0697-03-23W/Wellbore #1)
 Created By: Will Jircik Date: 17:56, November 09 2020