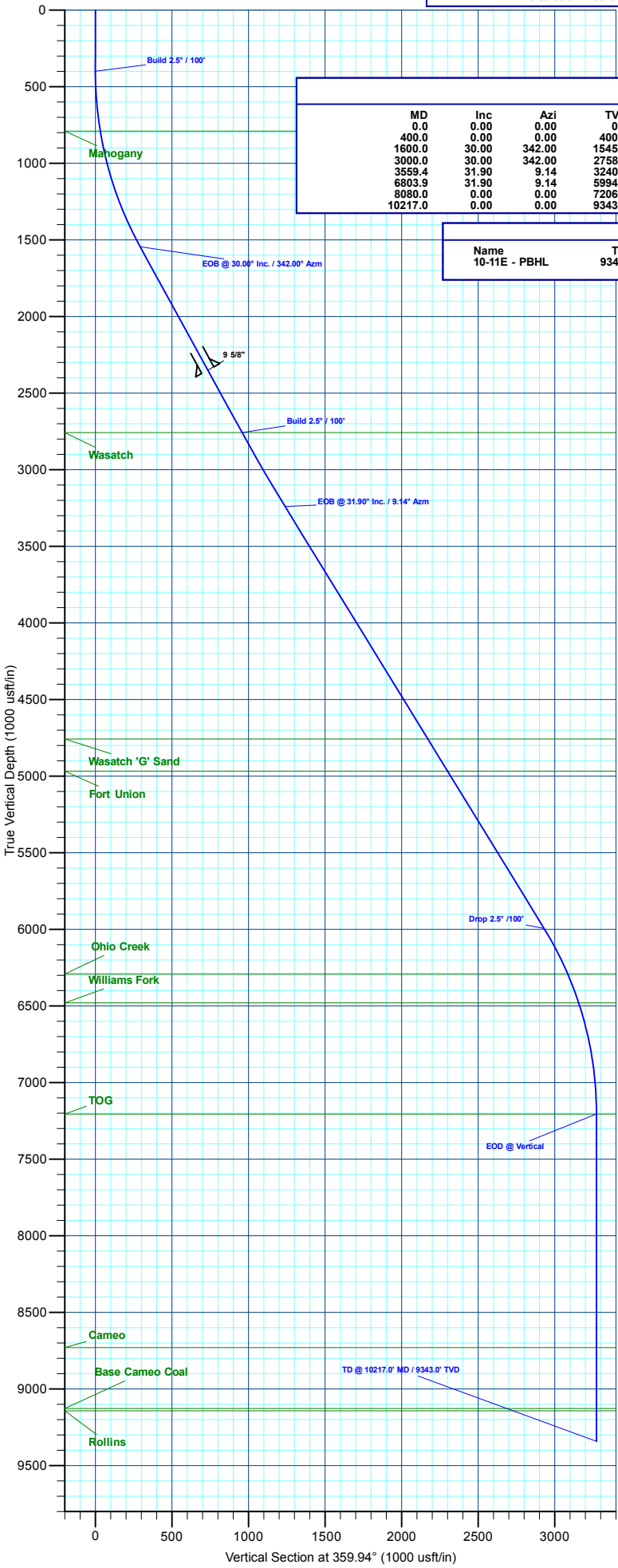


PROJECT DETAILS: Garfield County, CO
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Central Zone
System Datum: Mean Sea Level

REFERENCE INFORMATION
Co-ordinate (N/E) Reference: Well CC 0697-10-11E - Slot B-9, True North
Vertical (TVD) Reference: RKB @ 8533.0usft (H&P #522)
Section (VS) Reference: Slot - B-9(0.0N, 0.0E)
Measured Depth Reference: RKB @ 8533.0usft (H&P #522)
Calculation Method: Minimum Curvature

Project: Garfield County, CO
Site: CC 0604-15-08 Pad
Well: CC 0697-10-11E
Wellbore: B-9
Design: Design #1
Latitude: 39.526154
Longitude: -108.199076
Ground Level: 8503.0
RKB @ 8533.0usft (H&P #522)



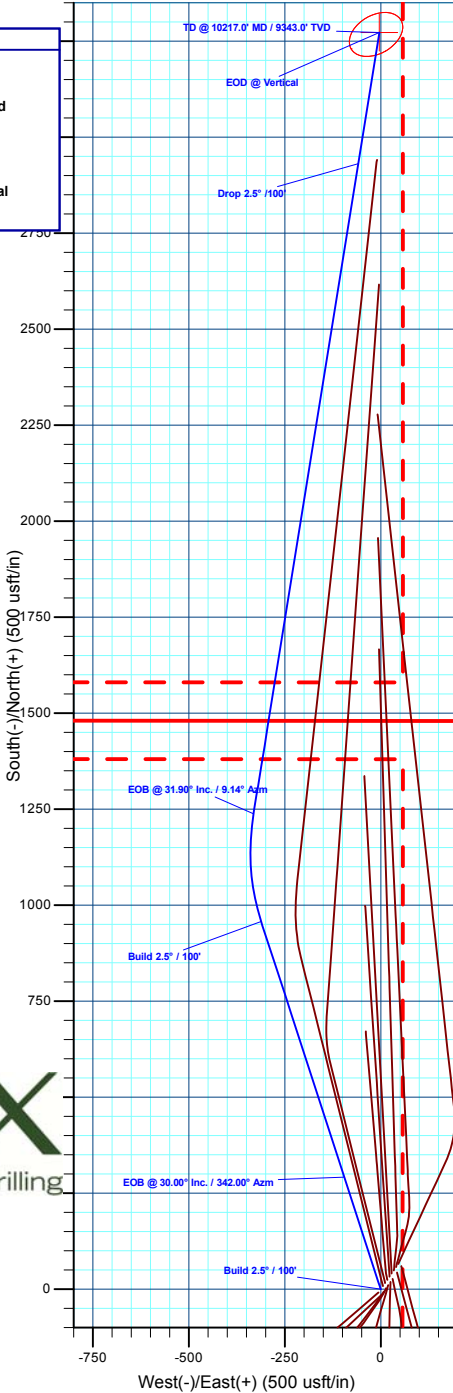
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.0	Build 2.5° / 100°
1600.0	30.00	342.00	1545.9	292.0	-94.9	2.50	342.00	292.1	EOB @ 30.00° Inc. / 342.00° Azm
3000.0	30.00	342.00	2758.4	957.3	-311.2	0.00	0.00	958.1	Build 2.5° / 100°
3559.4	31.90	9.14	3240.5	1238.1	-331.0	2.50	94.07	1238.5	EOB @ 31.90° Inc. / 9.14° Azm
6803.9	31.90	9.14	5994.8	2931.0	-58.7	0.00	0.00	2931.1	Drop 2.5° / 100°
8080.0	0.00	0.00	7206.0	3272.9	-3.7	2.50	180.00	3272.9	EOD @ Vertical
10217.0	0.00	0.00	9343.0	3272.9	-3.7	0.00	0.00	3272.9	TD @ 10217.0' MD / 9343.0' TVD

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Eastng
10-11E - PBHL	9343.0	3272.9	-3.7	1631110.79	2238851.36
				Latitude	Longitude
				39.535139	-108.199089

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
790.0	791.9	Mahogany
2758.0	2999.6	Wasatch
4758.0	5347.0	Wasatch 'G' Sand
4968.0	5594.4	Fort Union
6292.0	7139.9	Ohio Creek
6480.0	7341.3	Williams Fork
7206.0	8080.0	TOG
8730.0	9604.0	Cameo
9128.0	10002.0	Base Cameo Coal
9143.0	10017.0	Rollins



Azimuths to True North
Magnetic North: 9.40°
Magnetic Field Strength: 51318.5nT
Dip Angle: 65.72°
Date: 12/3/2020
Model: HDGM2020



WELL DETAILS: CC 0697-10-11E					
+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
0.0	0.0	1627839.25	2238757.83	39.526154	-108.199076
					B-9

Plan: Design #1 (CC 0697-10-11E/B-9)
Created By: Will Jircik Date: 8:09, June 02 2021