

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 0697-10-13E - Slot B-7, True North  
Vertical (TVD) Reference: RKB @ 8533.0usft (H&P #522)  
Section (VS) Reference: Slot - B-7(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 0697-10-13E  
Wellbore: B-7  
Design: Design #2  
Latitude: 39.526199  
Longitude: -108.199036  
Ground Level: 8503.0  
RKB @ 8533.0usft (H&P #522)

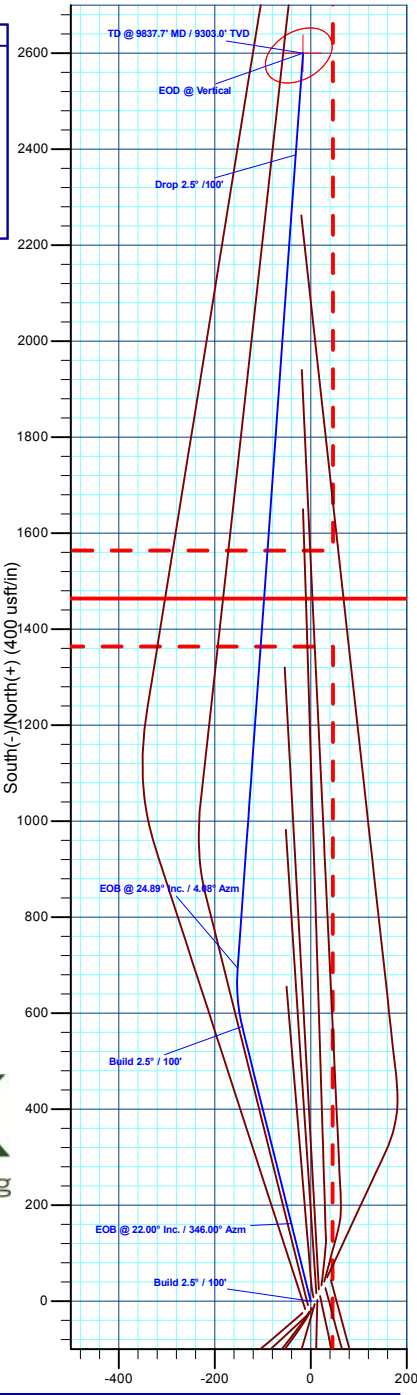
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	Build 2.5° / 100'
1230.0	22.00	346.00	1208.5	161.9	-40.4	2.50	346.00	162.2	EOB @ 22.00° Inc. / 346.00° Azm
2360.0	22.00	346.00	2256.3	572.7	-142.8	0.00	0.00	573.5	Build 2.5° / 100'
2668.6	24.89	4.08	2539.7	693.7	-152.2	2.50	76.61	694.6	EOB @ 24.89° Inc. / 4.08° Azm
6705.3	24.89	4.08	6201.5	2388.1	-31.3	0.00	0.00	2388.3	Drop 2.5° / 100'
7700.7	0.00	0.00	7166.0	2600.4	-16.2	2.50	180.00	2600.4	EOB @ Vertical
9837.7	0.00	0.00	9303.0	2600.4	-16.2	0.00	0.00	2600.4	TD @ 9837.7° MD / 9303.0° TVD

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude
10-13E - PBHL	9303.0	2600.4	-16.2	1630455.11	2238830.74	39.533338
						Longitude
						-108.199093

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
750.0	752.1	Mahogany
2718.0	2865.1	Wasatch
4718.0	5069.9	Wasatch 'G' Sand
4928.0	5301.4	Fort Union
6252.0	6760.6	Ohio Creek
6440.0	6962.0	Williams Fork
7166.0	7700.7	TOG
8690.0	9224.7	Cameo
9088.0	9622.7	Base Cameo Coal
9103.0	9637.7	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 0697-10-13E						
			8503.0			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	B-7
0.0	0.0	1627855.38	2238769.66	39.526199	-108.199036	

Plan: Design #2 (CC 0697-10-13E/B-7)  
Created By: Will Jircik Date: 8:44, June 02 2021

