

## 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 0697-03-21E

+N/-S 0.0 +E/-W 0.0 Northing 1636276.11 Easting 2235898.98 8613.0 Latitude 39.549072 Longitude -108.210098 B-11

## Project: Garfield County, CO

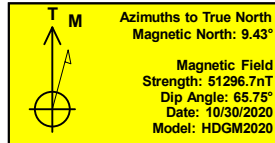
Site: CC 603-23-32 Pad  
 Well: CC 0697-03-21E  
 Wellbore: Wellbore #1  
 Design: Design #2  
 Latitude: 39.549072  
 Longitude: -108.210098  
 Ground Level: 8613.0  
 RKB @ 8643.0usft (H&P #522)

## FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation        |
|---------|---------|------------------|
| 1143.0  | 1165.2  | Mahogany         |
| 3093.0  | 3366.4  | Wasatch          |
| 4843.0  | 5346.9  | Wasatch 'G' Sand |
| 5053.0  | 5584.5  | Fort Union       |
| 6593.0  | 7310.5  | Ohio Creek       |
| 6893.0  | 7619.8  | Williams Fork    |
| 7293.0  | 8021.8  | TOG              |
| 9083.0  | 9811.8  | Cameo            |
| 9478.0  | 10206.8 | Base Cameo Coal  |
| 9493.0  | 10221.8 | Rollins          |

## REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 0697-03-21E - Slot B-11, True North  
 Vertical (TVD) Reference: RKB @ 8643.0usft (H&P #522)  
 Section (VS) Reference: Slot - B-11(0.0N, 0.0E)  
 Measured Depth Reference: RKB @ 8643.0usft (H&P #522)  
 Calculation Method: Minimum Curvature

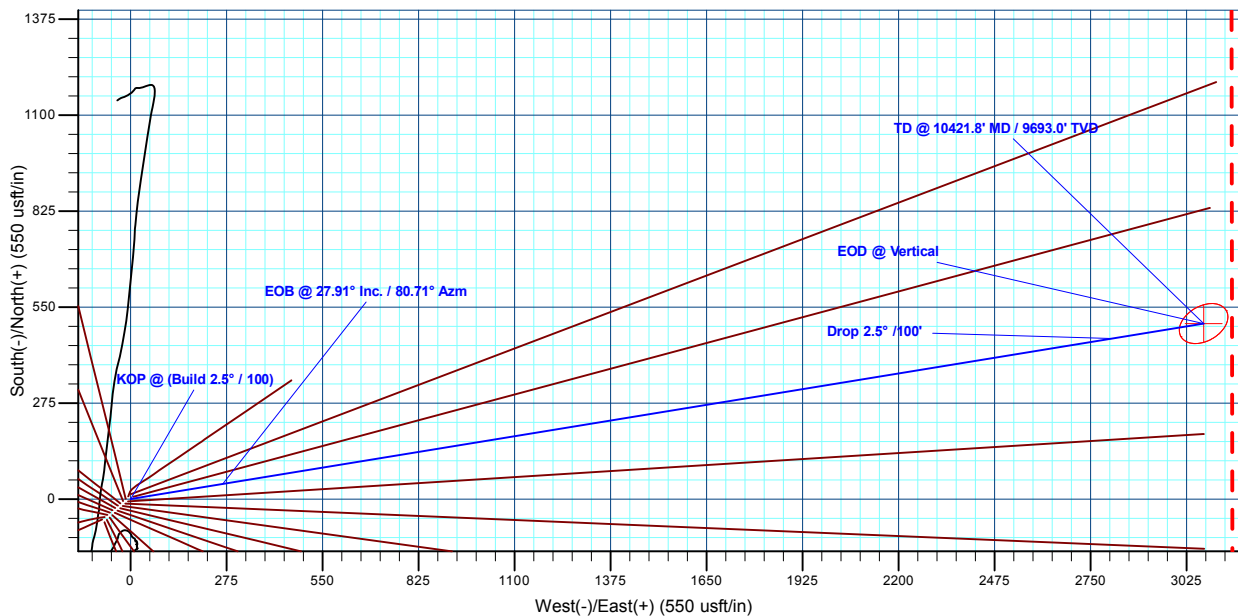


## DESIGN TARGET DETAILS

| Name          | TVD    | +N/-S | +E/-W  | Northing   | Easting    | Latitude  | Longitude   |
|---------------|--------|-------|--------|------------|------------|-----------|-------------|
| 03-21E - PBHL | 9693.0 | 502.7 | 3073.7 | 1636686.92 | 2238986.33 | 39.550452 | -108.199198 |

## 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    |  |
| 275.0   | 0.00  | 0.00  | 275.0  | 0.0   | 0.0    | 0.00 | 0.00   | 0.0    |  |
| 1391.6  | 27.91 | 80.71 | 1347.9 | 43.0  | 263.2  | 2.50 | 80.71  | 266.7  | KOP @ (Build 2.5° / 100)                         |
| 6905.3  | 27.91 | 80.71 | 6220.1 | 459.7 | 2810.6 | 0.00 | 0.00   | 2847.9 | EOB @ 27.91° Inc. / 80.71° Azm                   |
| 8021.8  | 0.00  | 0.00  | 7293.0 | 502.7 | 3073.7 | 2.50 | 180.00 | 3114.6 | Drop 2.5° / 100'                                 |
| 10421.8 | 0.00  | 0.00  | 9693.0 | 502.7 | 3073.7 | 0.00 | 0.00   | 3114.6 | EOB @ Vertical<br>TD @ 10421.8' MD / 9693.0' TVD |



Plan: Design #2 (CC 0697-03-21E/Wellbore #1)

Created By: Will Jircik Date: 12:59, November 09 2020

