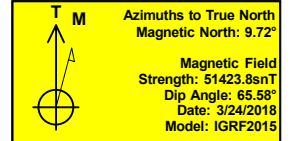


Project: Garfield County, CO
 Site: CC 603-23-32 Pad
 Well: CC 0697-03-25W
 Wellbore: B-7
 Design: Permit #1
 Latitude: 39.548765
 Longitude: -108.210174
 Ground Level: 8613.0
 Well @ 8637.0usft (H&P 290)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 0697-03-25W, True North
 Vertical (TVD) Reference: Well @ 8637.0usft (H&P 290)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: Well @ 8637.0usft (H&P 290)
 Calculation Method: Minimum Curvature



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

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	
700.0	0.00	0.00	700.0	0.0	0.0	0.00	0.00	0.0	KOP/ (Build 3.00°/100')
1032.9	9.99	112.91	1031.2	-11.3	26.6	3.00	112.91	28.9	EOB @ 9.99° Inc / 112.91° Azm
3677.6	9.99	112.91	3635.8	-189.8	449.1	0.00	0.00	487.5	Drop @ 3.00°/100'
4010.4	0.00	0.00	3967.0	-201.1	475.7	3.00	180.00	516.5	EOD @ Vertical
9760.4	0.00	0.00	9717.0	-201.1	475.7	0.00	0.00	516.5	TD @ 9760.4' MD / 9717.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC 0697-03-25W	9717.0	-201.1	475.7	1635949.68	2236343.84	39.548213	-108.208487

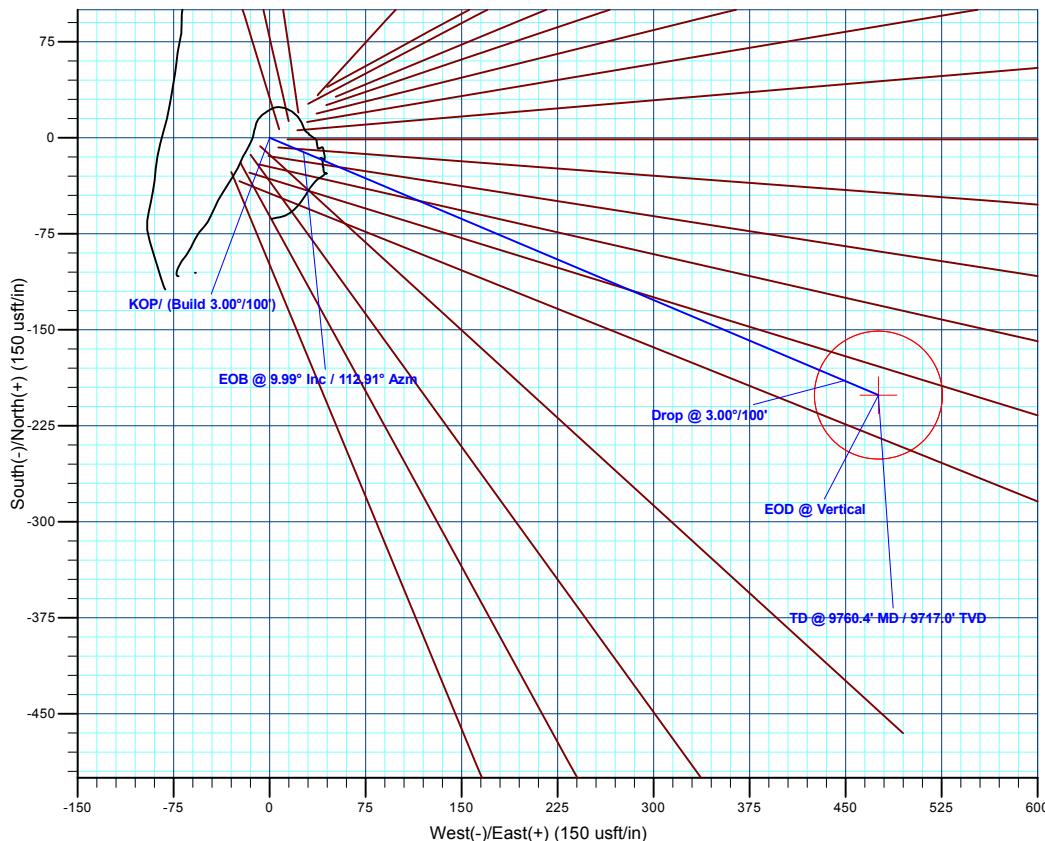
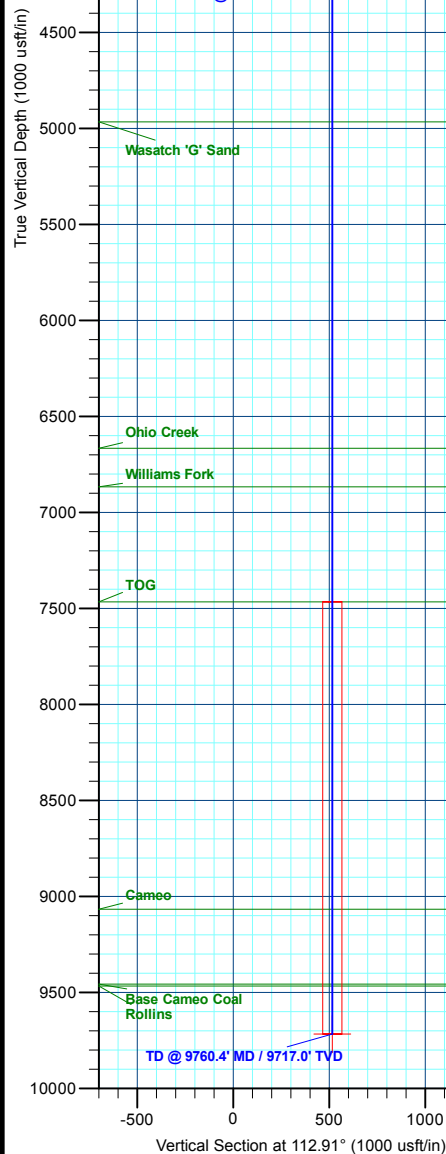
WELL DETAILS: CC 0697-03-25W

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1636164.84	8613.0 2235874.33	39.548765	-108.210174



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
600.0	600.0	Mahogany
4967.0	5010.4	Wasatch 'G' Sand
6667.0	6710.4	Ohio Creek
6867.0	6910.4	Williams Fork
7467.0	7510.4	TOG
9067.0	9110.4	Cameo
9457.0	9500.4	Base Cameo Coal
9467.0	9510.4	Rollins



Plan: Permit #1 (CC 0697-03-25W/B-7)

Created By: Will Jircik Date: 15:27, May 14 2018