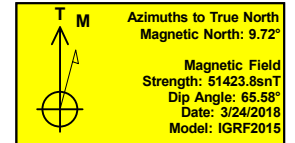


Project: Garfield County, CO
 Site: CC 603-23-32 Pad
 Well: CC 0697-03-22W
 Wellbore: B-2
 Design: Permit #1
 Latitude: 39.548856
 Longitude: -108.210041
 Ground Level: 8613.0
 Well @ 8637.0usft (H&P 290)

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well CC 0697-03-22W, 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	KOP/ (Build 3.00°/100')
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	EOB @ 5.48° Inc / 42.35° Azm
532.8	5.48	42.35	532.5	6.5	5.9	3.00	42.35	8.7	Drop @ 3.00°/100'
7295.7	5.48	42.35	7264.5	484.2	441.3	0.00	0.00	655.1	EOD @ Vertical
7478.5	0.00	0.00	7447.0	490.7	447.2	3.00	180.00	663.9	TD @ 9728.5' MD / 9697.0' TVD
9728.5	0.00	0.00	9697.0	490.7	447.2	0.00	0.00	663.9	

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC 0697-03-22W	9697.0	490.7	447.2	1636673.94	2236374.47	39.550203	-108.208455

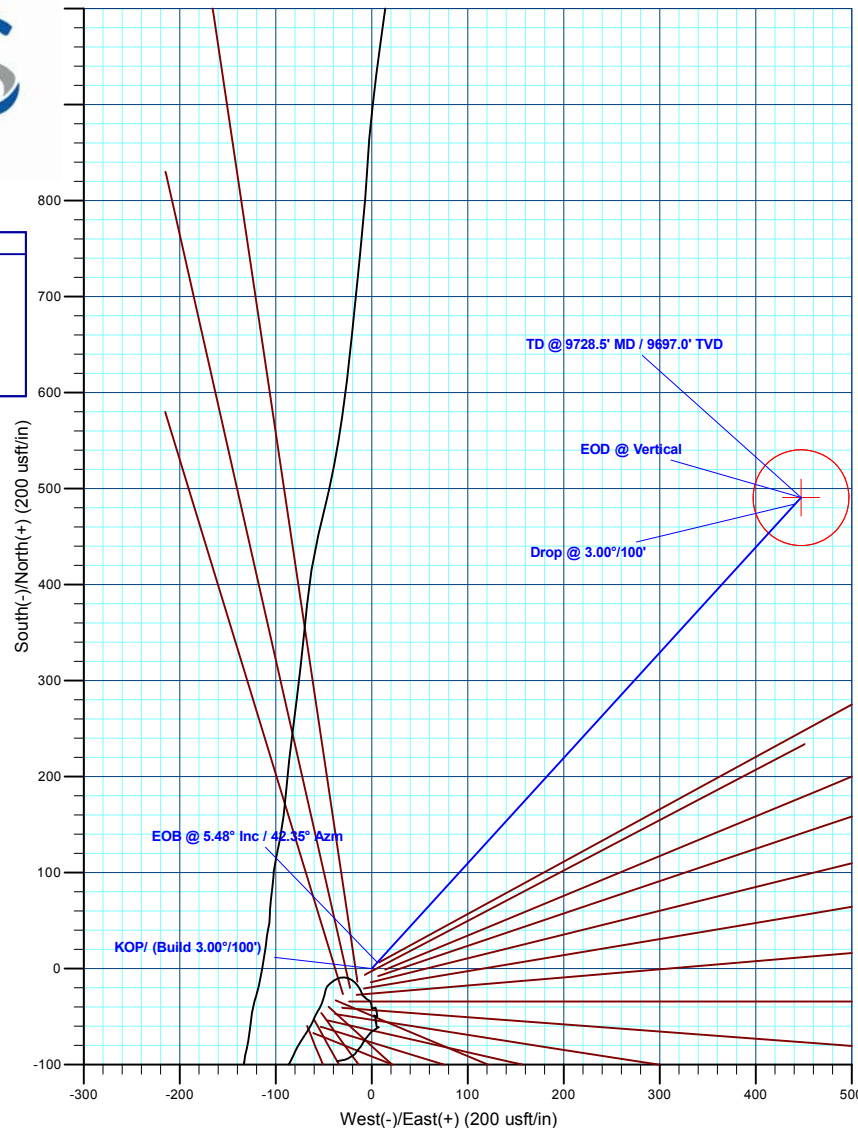
WELL DETAILS: CC 0697-03-22W

+N/-S	+E/-W	Northing	8613.0 Easting	Latitude	Longitude
0.0	0.0	1636196.85	2235912.81	39.548856	-108.210041



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
600.0	600.6	Mahogany
4947.0	4967.6	Wasatch 'G' Sand
6647.0	6675.4	Ohio Creek
6847.0	6876.3	Williams Fork
7447.0	7478.5	TOG
9047.0	9078.5	Cameo
9437.0	9468.5	Base Cameo Coal
9447.0	9478.5	Rollins



Plan: Permit #1 (CC 0697-03-22W/B-2)

Created By: Will Jircik Date: 15:17, May 14 2018

