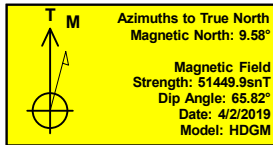


Project: Garfield County, CO
 Site: CC 0697-03-07 Pad
 Well: CC 0697-03-10E
 Wellbore: A-5
 Design: Design #4
 Latitude: 39.558405
 Longitude: -108.205088
 Ground Level: 8428.0
WELL @ 8458.0usft (30' RKB)

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 0697-03-10E, True North
 Vertical (TVD) Reference: WELL @ 8458.0usft (30' RKB)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: WELL @ 8458.0usft (30' RKB)
 Calculation Method: Minimum Curvature



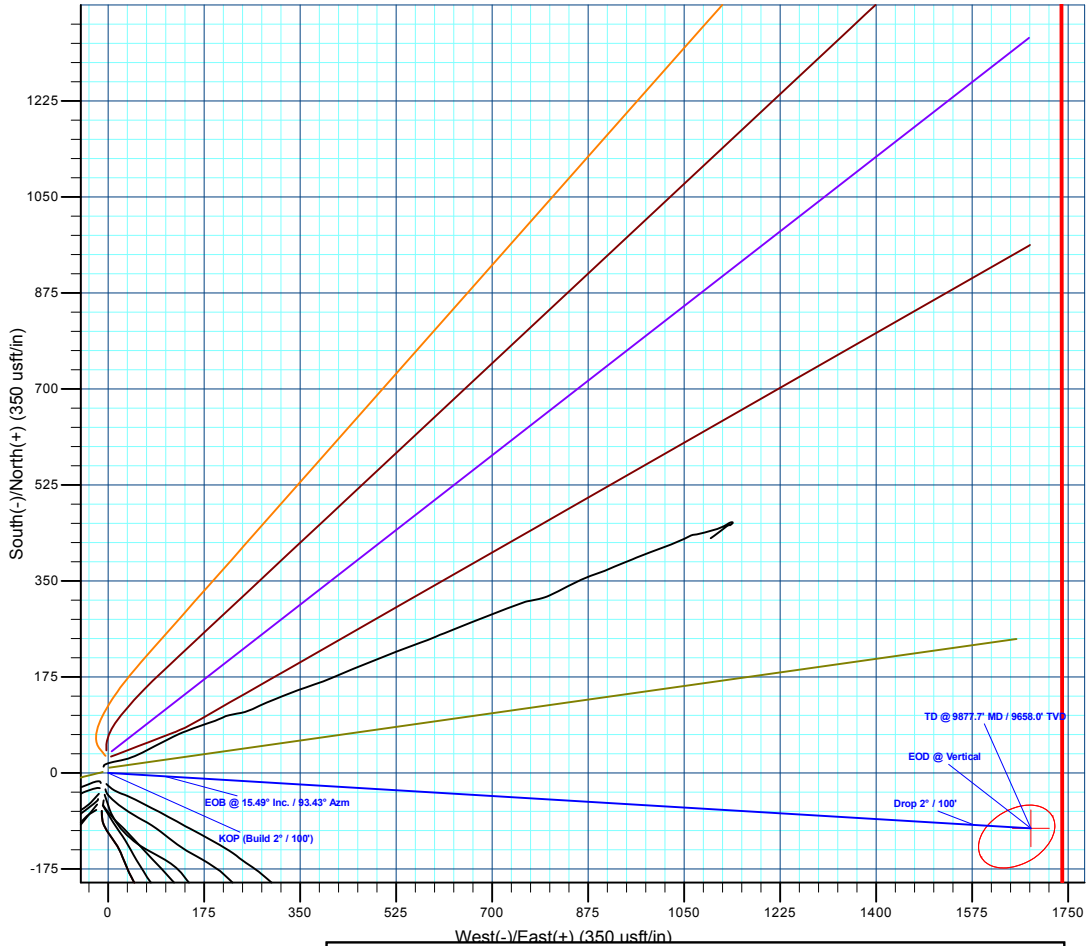
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - CC 0697-03-10E	9658.0	-100.8	1682.1	1639481.00	2239090.81	39.558128	-108.199122

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	KOP (Build 2' / 100')
1174.7	15.49	93.43	1165.3	-6.2	103.9	2.00	93.43	104.1	EOB @ 15.49° Inc. / 93.43° Azm
6703.0	15.49	93.43	6492.7	-94.6	1578.2	0.00	0.00	1581.0	Drop 2' / 100'
7477.7	0.00	0.00	7258.0	-100.8	1682.1	2.00	180.00	1685.1	EOD @ Vertical
9877.7	0.00	0.00	9658.0	-100.8	1682.1	0.00	0.00	1685.1	TD @ 9877.7' MD / 9658.0' TVD

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1109.0	1116.4	Mahogany
3043.0	3123.2	Wasatch
4658.0	4799.1	Wasatch 'G' Sand
5034.0	5189.3	Fort Union
6538.0	6749.9	Ohio Creek
6723.0	6939.6	Williams Fork
7258.0	7477.7	TOG
9052.0	9271.7	Cameo
9448.0	9667.7	Base Cameo Coal
9458.0	9677.7	Rollins



WELL DETAILS: CC 0697-03-10E						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
0.0	0.0	1639631.86	2237412.43	39.558405	-108.205088	



Created By: Will Jircik Date: 8:22, April 08 2019