



Project: Mesa County, CO
Site: Hayward 0993 25-09 Pad
Well: Hayward 0993-25-12E
Wellbore: A-2
Design: Design #2
Latitude: 39.244788
Longitude: -107.715777
Ground Level: 8007.0
RKB @ 8037.0usft (H&P #522)



PROJECT DETAILS: Mesa 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"/100')
1170.0	14.10	170.91	1165.3	-56.8	9.1	3.00	170.91	37.8	EOB @ 14.10° Inc. / 170.91° Azm
6187.6	14.10	170.91	8031.7	-1263.8	202.2	0.00	0.00	840.0	Drop 3" / 100'
6657.6	0.00	0.00	6497.0	-1320.6	211.3	3.00	180.00	EOD @ Vertical	
8607.6	0.00	0.00	8447.0	-1320.6	211.3	0.00	0.00	877.8	TD @ 8607.6' MD / 8447.0' TVD

DESIGN TARGET DETAILS

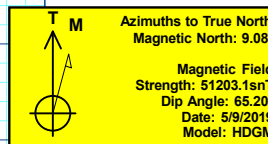
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Hayward 0993-25-12E	8447.0	-1320.6	211.3	1520375.53	2372716.24	39.241162	-107.715031

WELL DETAILS: Hayward 0993-25-12E

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1521700.92	2372537.22	39.244788	-107.715777

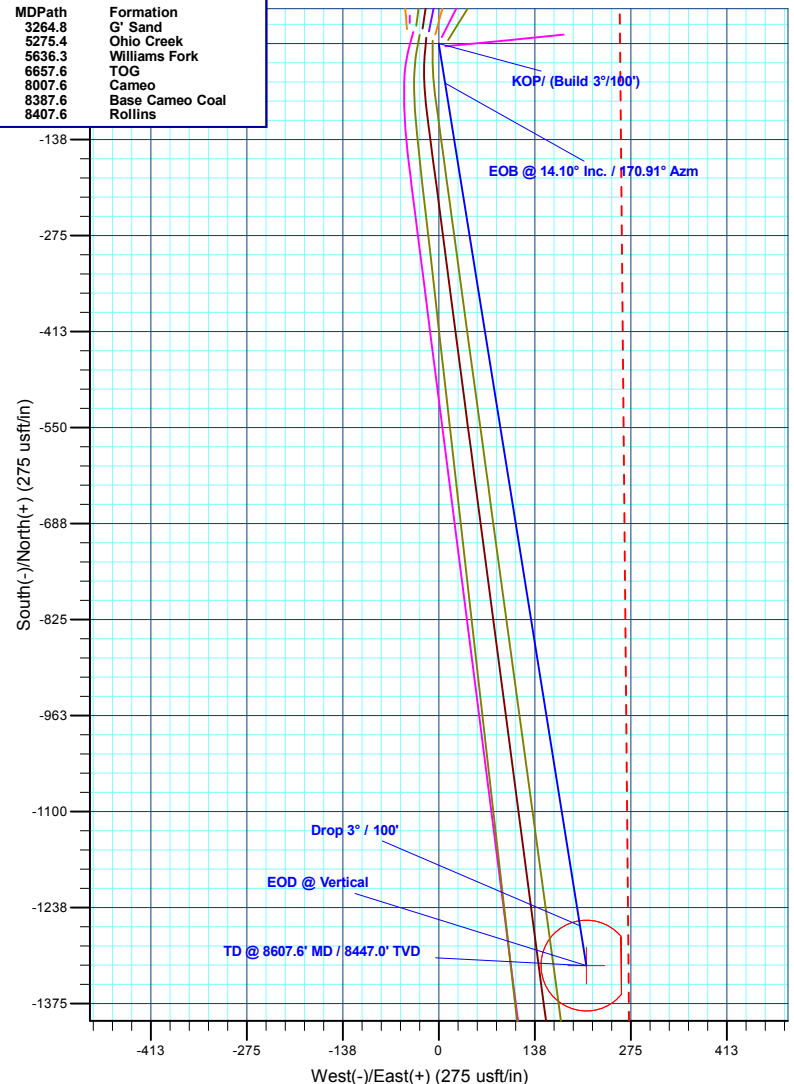
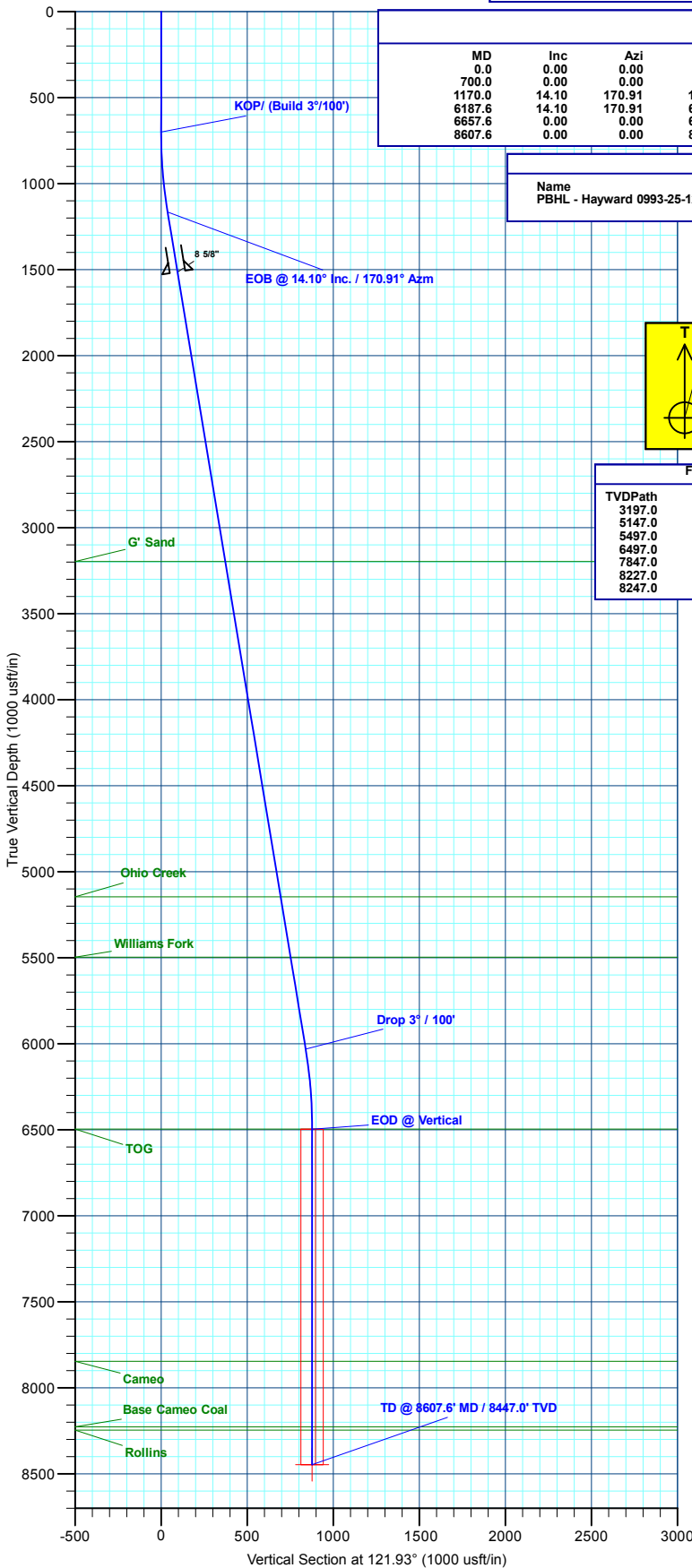
REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Hayward 0993-25-12E, True North
Vertical (TVD) Reference: RKB @ 8037.0usft (H&P #522)
Section (VS) Reference: Slot - (0.0N, 0.0E)
Measured Depth Reference: RKB @ 8037.0usft (H&P #522)
Calculation Method: Minimum Curvature



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3197.0	3264.8	G' Sand
5147.0	5275.4	Ohio Creek
5497.0	5636.3	Williams Fork
6497.0	6657.6	TOG
7847.0	8007.6	Cameo
8227.0	8387.6	Base Cameo Coal
8247.0	8407.6	Rollins



Plan: Design #2 (Hayward 0993-25-12E/A-2)

Created By: Will Jircik Date: 10:49, May 14 2019