



Project: Mesa County, CO  
Site: Hayward 0993 25-09 Pad  
Well: Hayward 0993-25-06E  
Wellbore: B-3  
Design: Design #2  
Latitude: 39.244824  
Longitude: -107.715795  
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	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.0	KOP (Build 3°/100')
716.5	8.00	15.36	715.6	17.9	4.9	3.00	15.36	18.0	EOB @ 8.00° Inc. / 15.36° Azm
5299.8	8.00	15.36	5254.4	632.6	173.8	0.00	0.00	637.7	Drop 3° / 100'
5566.3	0.00	0.00	5520.0	650.5	178.7	3.00	180.00	655.7	EOD @ Vertical
8548.3	0.00	0.00	8502.0	650.5	178.7	0.00	0.00	655.7	TD @ 8548.3' MD / 8502.0' TVD

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Hayward 0993-25-06E	8502.0	650.5	178.7	1522360.11	2372726.96	39.246610	-107.715164

WELL DETAILS: Hayward 0993-25-06E

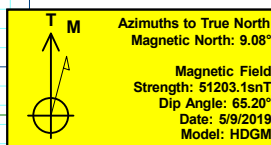
	8007.0				
+N/-S	0.0	+E/-W	0.0	Northing	1521714.16
				Easting	2372532.45
				Latitude	39.244824
				Longitude	-107.715795

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3252.0	3277.8	G' Sand
5202.0	5246.9	Ohio Creek
5552.0	5598.3	Williams Fork
6552.0	6598.3	TOG
7902.0	7948.3	Cameo
8282.0	8328.3	Base Cameo Coal
8302.0	8348.3	Rollins

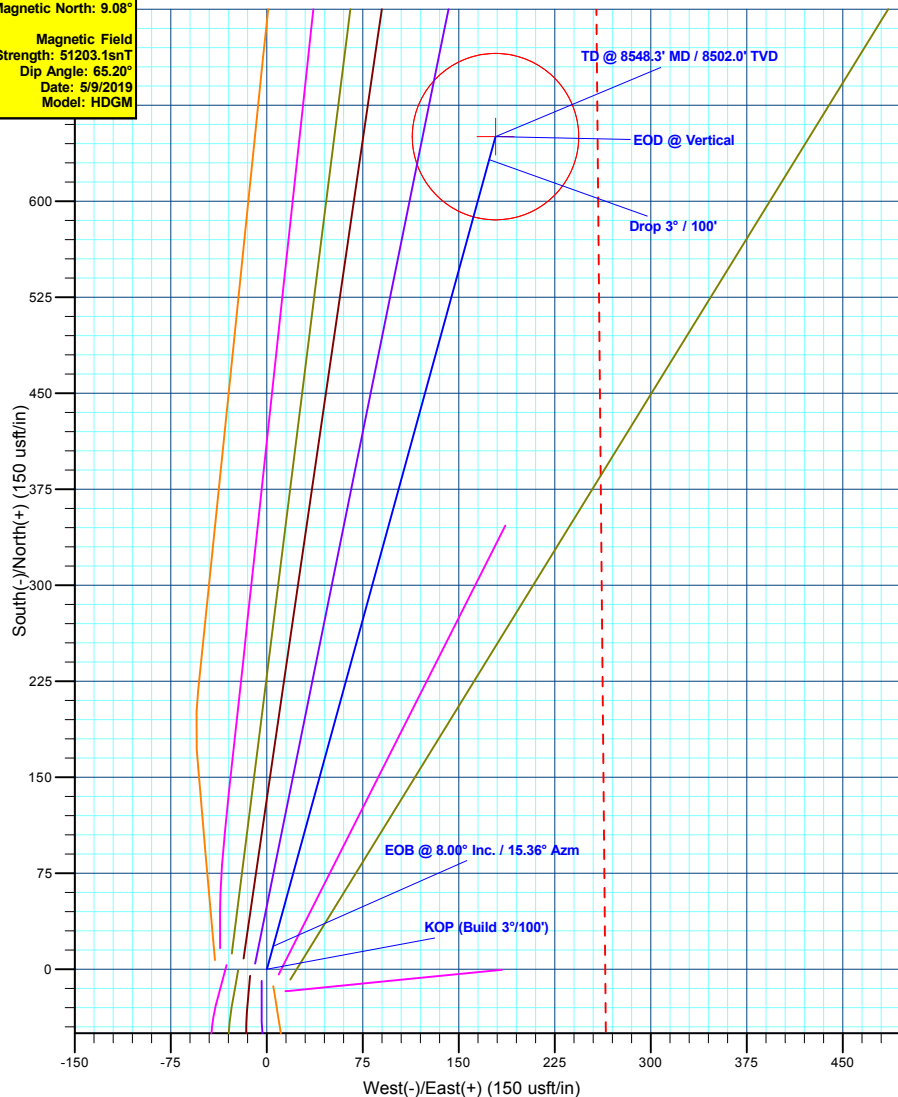
REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Hayward 0993-25-06E, 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



Azimuths to True North  
Magnetic North: 9.08°

Magnetic Field  
Strength: 51203.1snT  
Dip Angle: 65.20°  
Date: 5/9/2019  
Model: HDGM



Plan: Design #2 (Hayward 0993-25-06E/B-3)

Created By: Will Jircik Date: 9:47, May 14 2019

