



Project: Mesa County, CO
 Site: Gunderson 20-03 Pad
 Well: Gunderson BCU 20-07E
 Wellbore: Wellbore #1
 Design: Design #4
 Latitude: 39.266864
 Longitude: -107.795281
 Ground Level: 7146.0
 well @ 7176.0usft (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

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Gunderson BCU 20-07E, True North
 Vertical (TVD) Reference: well @ 7176.0usft (H&P #522)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: well @ 7176.0usft (H&P #522)
 Calculation Method: Minimum Curvature

WELL DETAILS: Gunderson BCU 20-07E

Ground Level: 7146.0

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1530297.80	2350231.15	39.266864	-107.795281

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

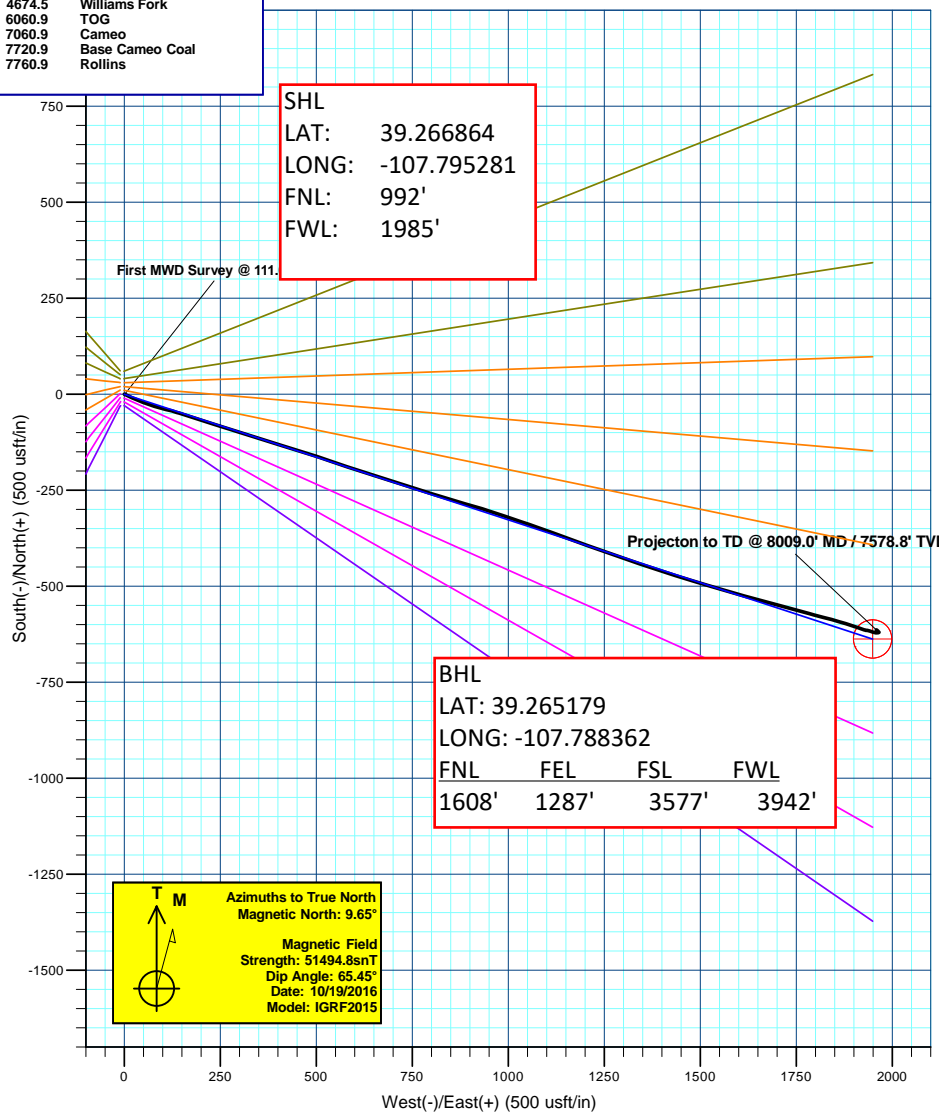
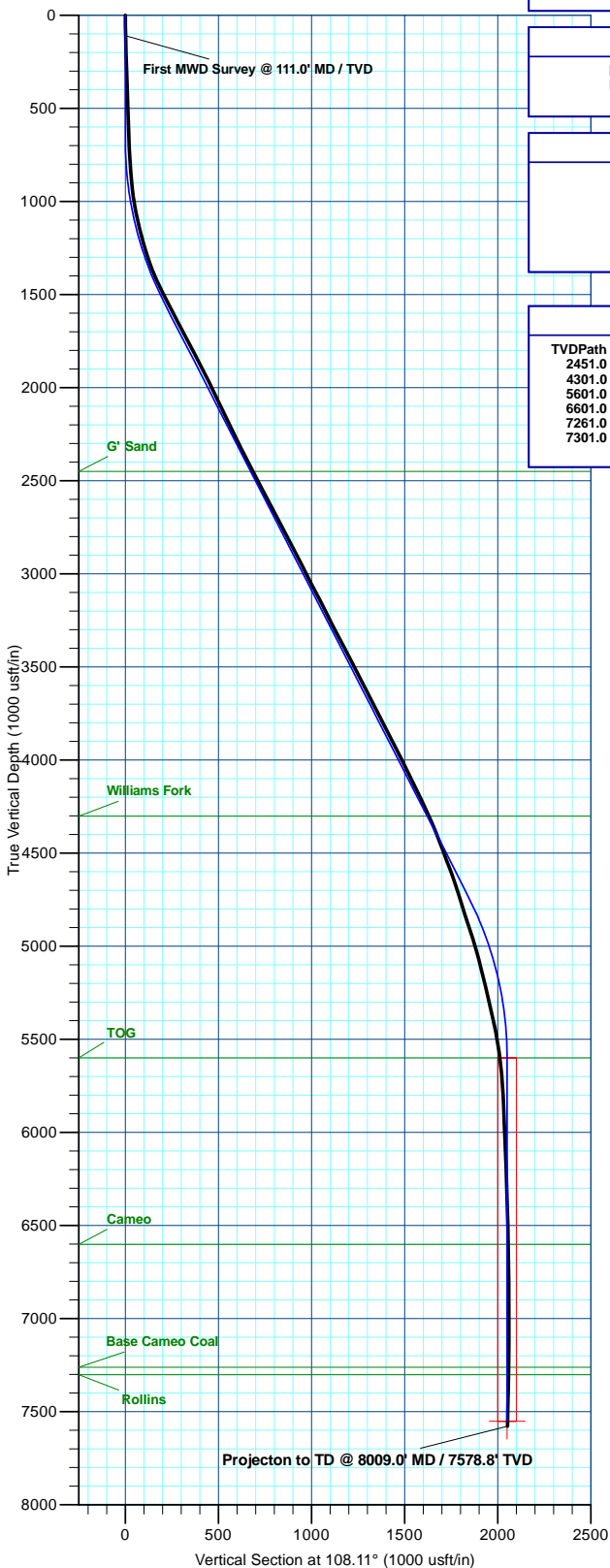
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
PBHL - Gunderson BCU 20-07E	7551.0	-637.3	1949.0	1529611.47	2352163.46	39.265114	-107.788397

ANNOTATIONS

MD	Inc	Azi	TVD	+N-S	+E-W	VSect	Departure	Annotation
111.0	1.50	103.60	111.0	-0.3	1.4	1.4	1.5	First MWD Survey @ 111.0' MD / TVD
8009.0	1.10	302.60	7578.8	-613.8	1959.0	2052.7	2073.0	Projection to TD @ 8009.0' MD / 7578.8' TVD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2451.0	2596.2	G' Sand
4301.0	4674.5	Williams Fork
5601.0	6060.9	TOG
6601.0	7060.9	Cameo
7261.0	7720.9	Base Cameo Coal
7301.0	7760.9	Rollins



Plan: Design #4 (Gunderson BCU 20-07E/Wellbore #1)

Created By: Will Jircik Date: 18:22, July 15 2017