



Project: Mesa County, CO
 Site: Gunderson 20-03 Pad
 Well: Gunderson 20-08W
 Wellbore: Wellbore #1
 Design: Design #4
 Latitude: 39.266839
 Longitude: -107.795317
 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 20-08W, 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 20-08W

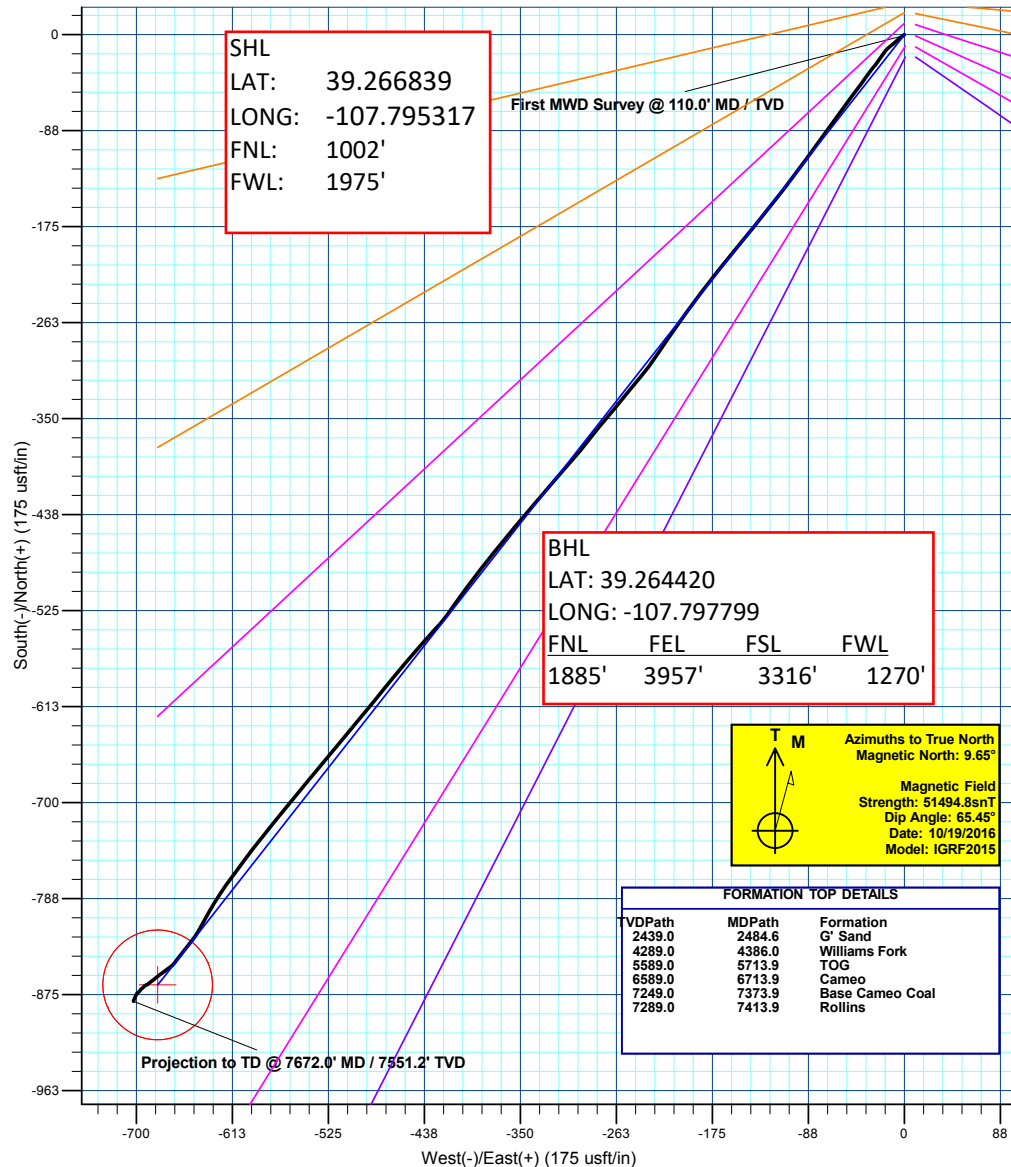
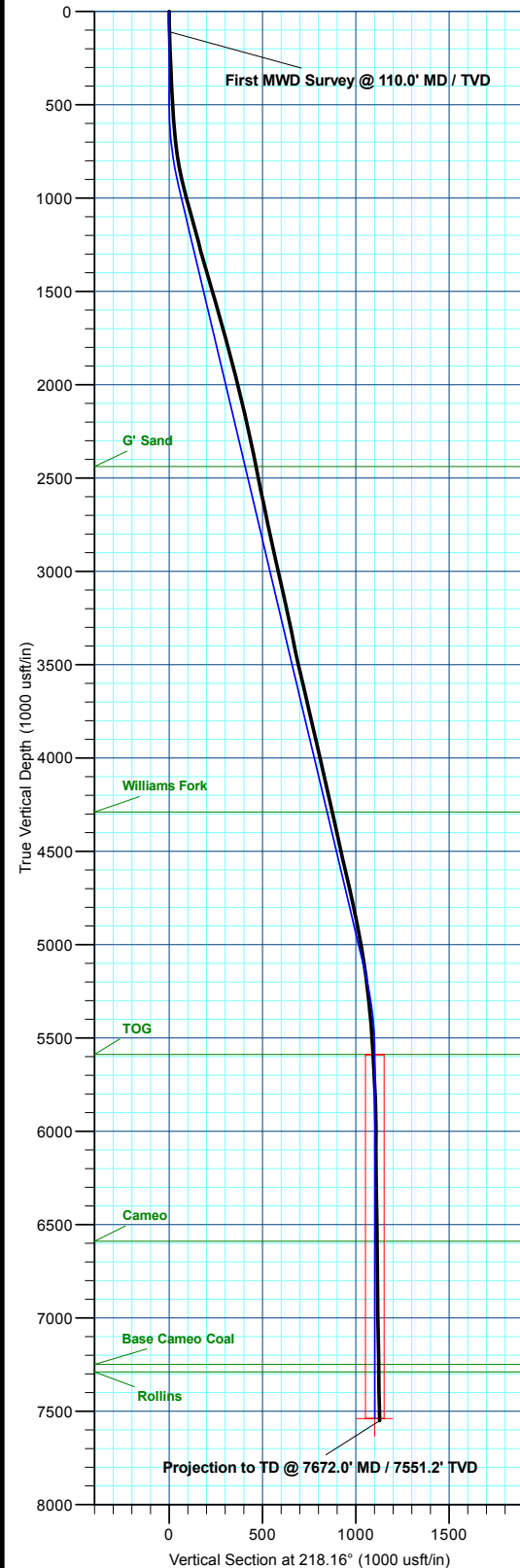
+N/-S	+E/-W	Northing	Ground Level: Easting	7146.0	Latitude	Longitude
0.0	0.0	1530288.96	2350220.73		39.266839	-107.795317

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Gunderson 20-08W	7539.0	-866.1	-680.6	1529440.33	2349518.42	39.264461	-107.797721

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
110.0	1.80	234.20	110.0	-1.0	-1.4	1.7	1.7	First MWD Survey @ 110.0' MD / TVD
7672.0	1.00	197.00	7551.2	-881.1	-702.7	1127.0	1130.7	Projection to TD @ 7672.0' MD / 7551.2' TVD



Plan: Design #4 (Gunderson 20-08W/Wellbore #1)

Created By: Will Jircik

Date: 22:59, July 22 2017

FORMATION TOP DETAILS		
VDPPath	MDPath	Formation
2439.0	2484.6	G' Sand
4289.0	4386.0	Williams Fork
5589.0	5713.9	TOG
6589.0	6713.9	Cameo
7249.0	7373.9	Base Cameo Coal
7289.0	7413.9	Rollins