



Project: Mesa County, CO
 Site: Gunderson 29-09 Pad
 Well: Piceance Federal 29-18E
 Wellbore: Wellbore #1
 Design: Design #1
 Latitude: 39.248492
 Longitude: -107.788303
 Ground Level: 7531.0
 well @ 7561.0usft (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 Piceance Federal 29-18E, True North
 Vertical (TVD) Reference: well @ 7561.0usft (H&P #522)
 Section (VS) Reference: Slot - (0.0N, 0.0E)
 Measured Depth Reference: well @ 7561.0usft (H&P #522)
 Calculation Method: Minimum Curvature

WELL DETAILS: Piceance Federal 29-18E

+N/-S	+E/-W	Northing	Easting	Ground Level: 7531.0	Latitude	Longitude
0.0	0.0	1523558.69	2352037.59		39.248492	-107.788303

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

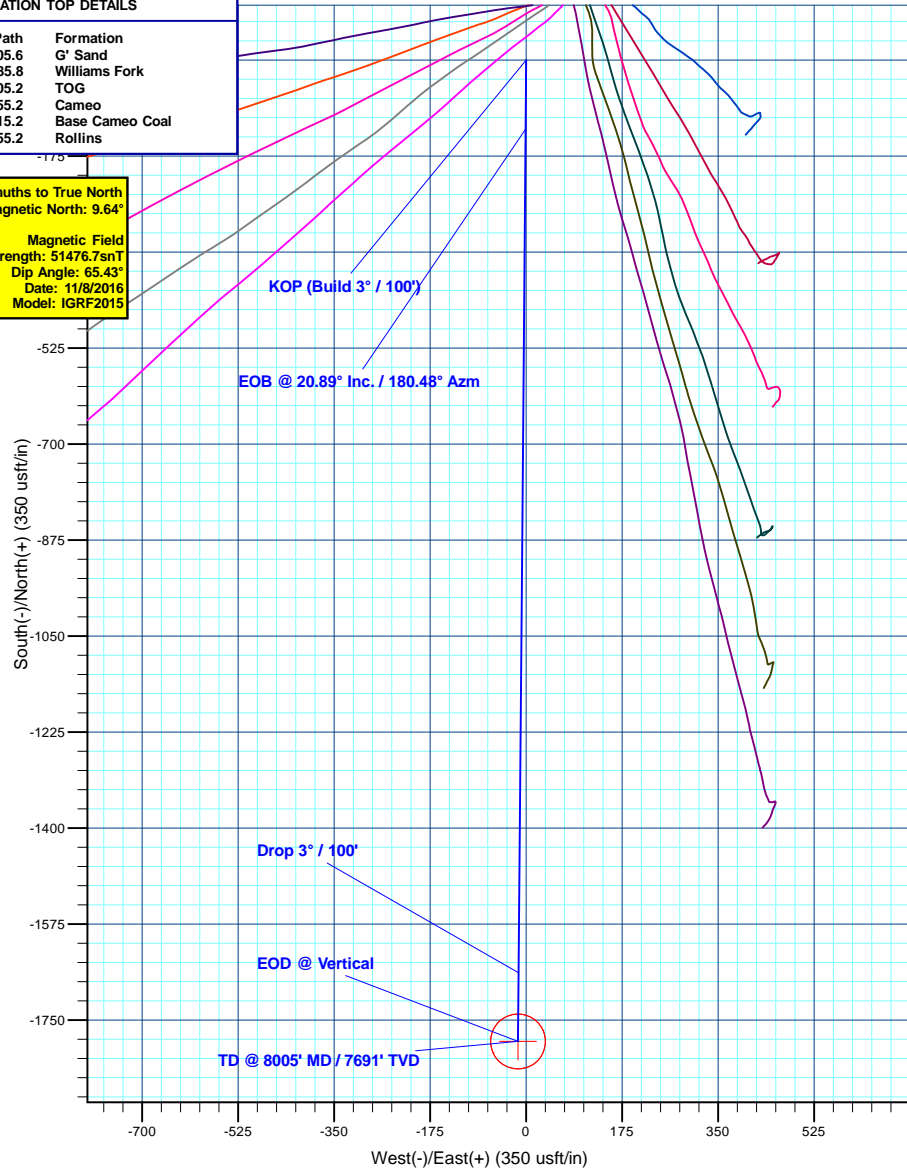
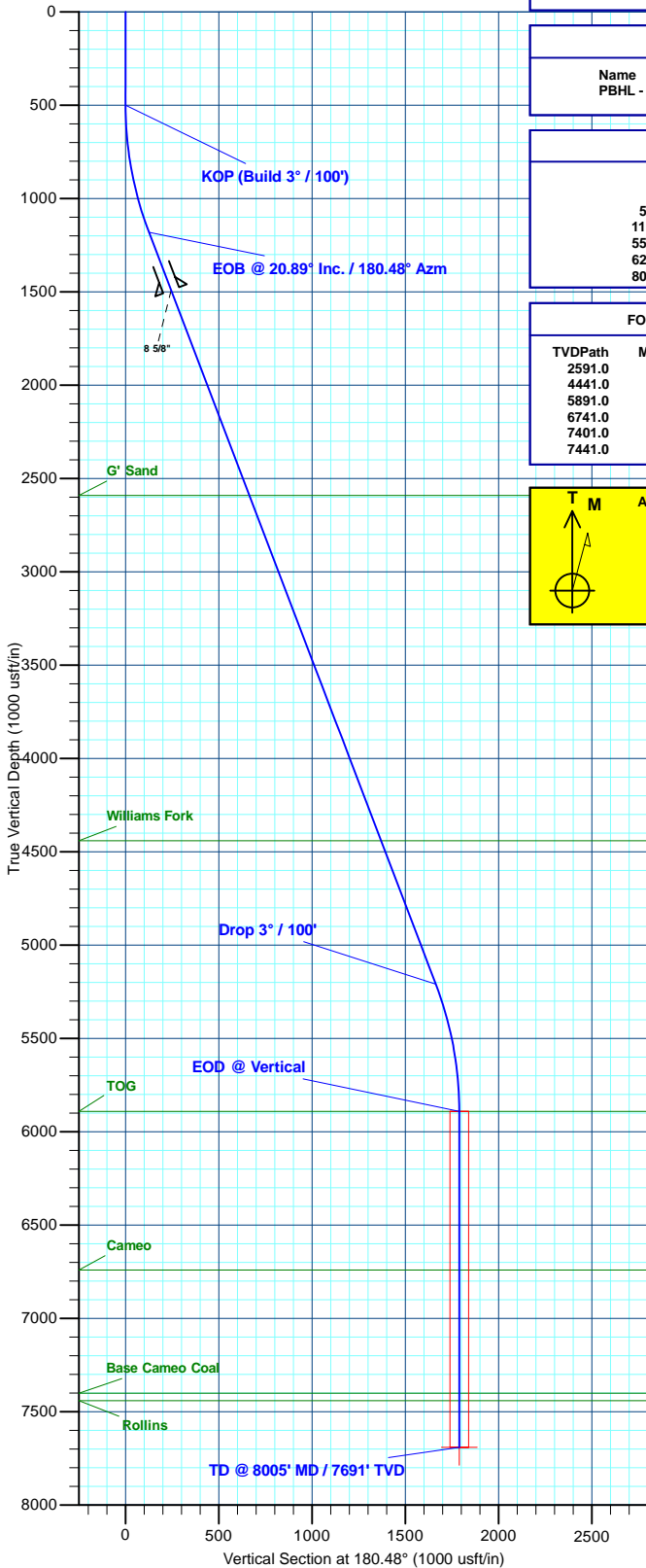
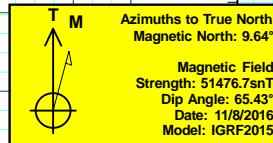
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Piceance Federal 29-18E	7691.0	-1789.0	-15.0	1521770.61	2351977.53	39.243580	-107.788356

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.0	KOP (Build 3° / 100')
1196.5	20.89	180.48	1181.1	-125.6	-1.1	3.00	180.48	125.6	EOB @ 20.89° Inc. / 180.48° Azm
5508.8	20.89	180.48	5209.9	-1663.4	-14.0	0.00	0.00	1663.5	Drop 3° / 100'
6205.2	0.00	0.00	5891.0	-1789.0	-15.0	3.00	180.00	1789.1	EOD @ Vertical
8005.2	0.00	0.00	7691.0	-1789.0	-15.0	0.00	0.00	1789.1	TD @ 8005' MD / 7691' TVD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2591.0	2705.6	G' Sand
4441.0	4685.8	Williams Fork
5891.0	6205.2	TOG
6741.0	7055.2	Cameo
7401.0	7715.2	Base Cameo Coal
7441.0	7755.2	Rollins



Plan: Design #1 (Piceance Federal 29-18E/Wellbore #1)

Created By: Will Jircik Date: 14:26, November 08 2016