



Project: Mesa County, CO  
 Site: Gunderson 29-09 Pad  
 Well: Piceance Federal 29-20E  
 Wellbore: Wellbore #1  
 Design: Design #2  
 Latitude: 39° 14' 54.261 N  
 Longitude: 107° 47' 17.959 W  
 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 29-20E, 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 29-20E

Ground Level: 7531.0  

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1523527.50	2352031.43	39° 14' 54.261 N	107° 47' 17.959 W

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

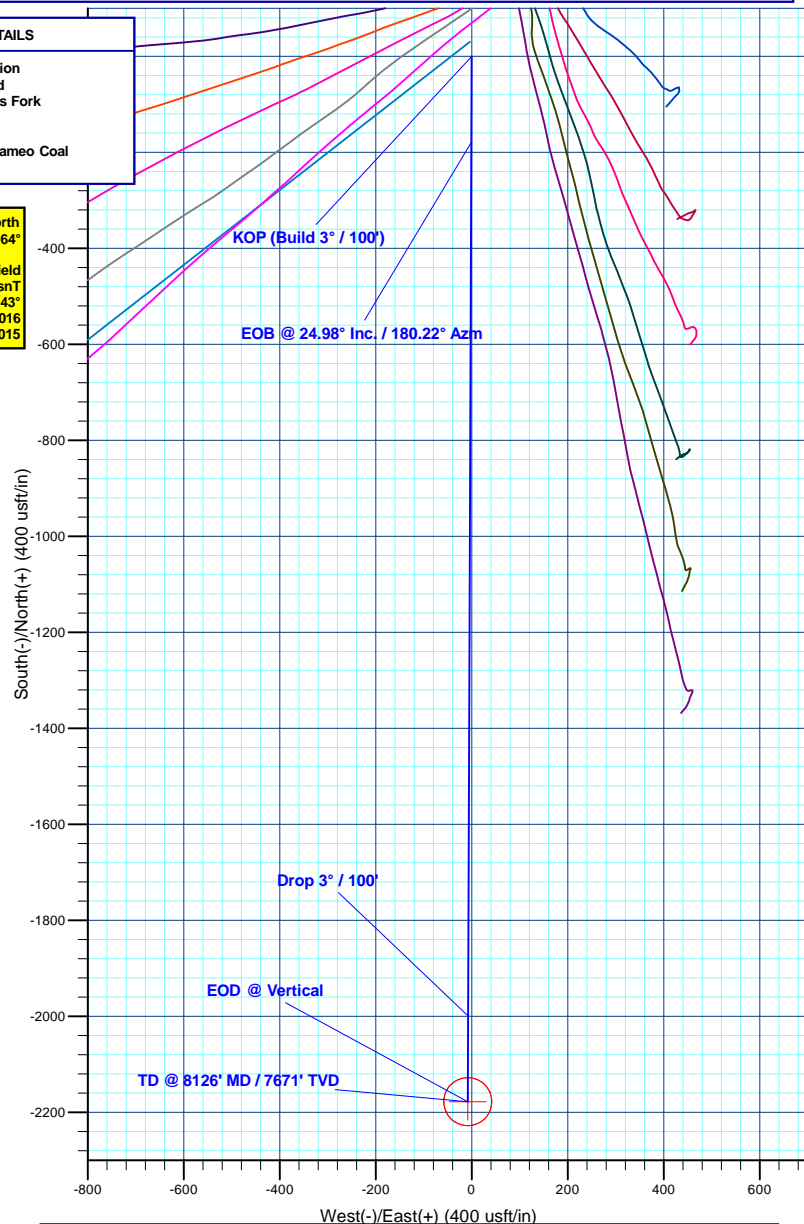
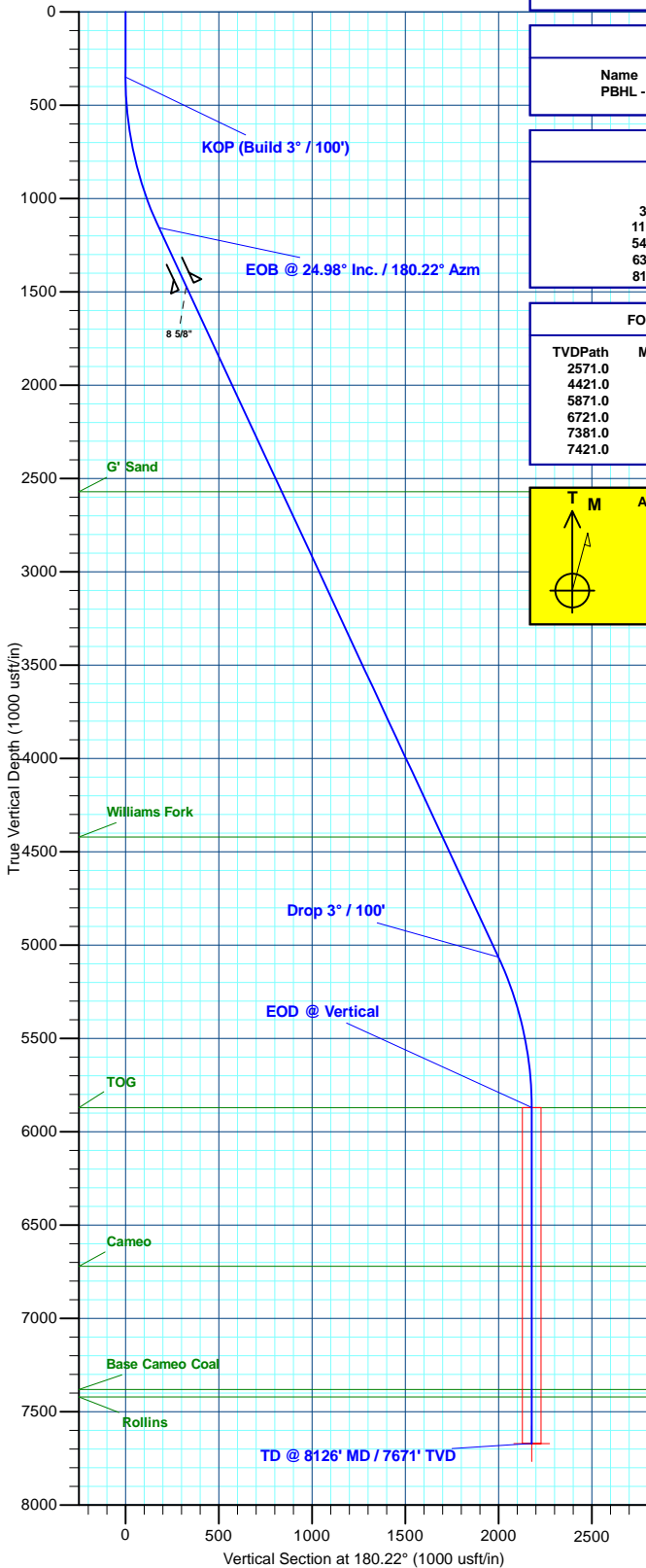
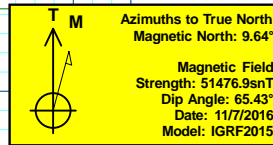
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PBHL - Piceance Federal 29-20E	7671.0	-2177.6	-8.2	1521350.76	39° 14' 32.737 N	2351968.37	107° 47' 18.064 W

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	
350.0	0.00	0.00	350.0	0.0	0.0	0.00	0.00	0.0	KOP (Build 3° / 100')
1182.5	24.98	180.22	1156.4	-178.6	-0.7	3.00	180.22	178.6	EOB @ 24.98° Inc. / 180.22° Azm
5493.9	24.98	180.22	5064.6	-1999.0	-7.5	0.00	0.00	1999.0	Drop 3° / 100'
6326.4	0.00	0.00	5871.0	-2177.6	-8.2	3.00	180.00	2177.7	EOD @ Vertical
8126.4	0.00	0.00	7671.0	-2177.6	-8.2	0.00	0.00	2177.7	TD @ 8126' MD / 7671' TVD

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2571.0	2743.1	G' Sand
4421.0	4783.9	Williams Fork
5871.0	6326.4	TOG
6721.0	7176.4	Cameo
7381.0	7836.4	Base Cameo Coal
7421.0	7876.4	Rollins



Plan: Design #2 (Piceance Federal 29-20E/Wellbore #1)

Created By: Will Jircik Date: 14:39, December 29 2016