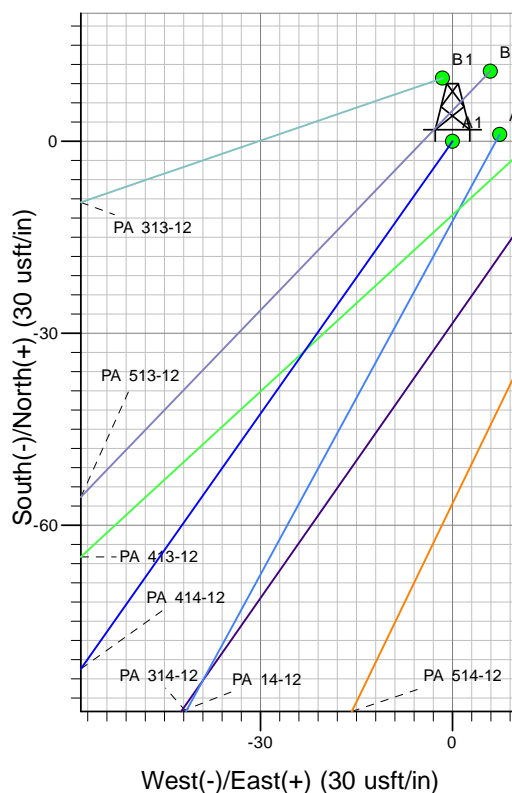
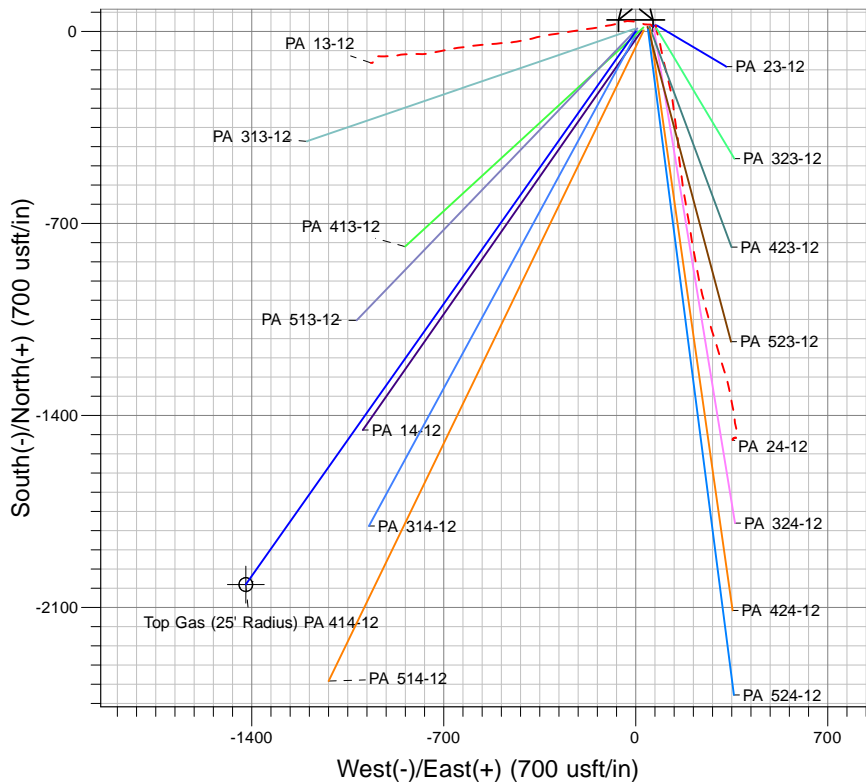
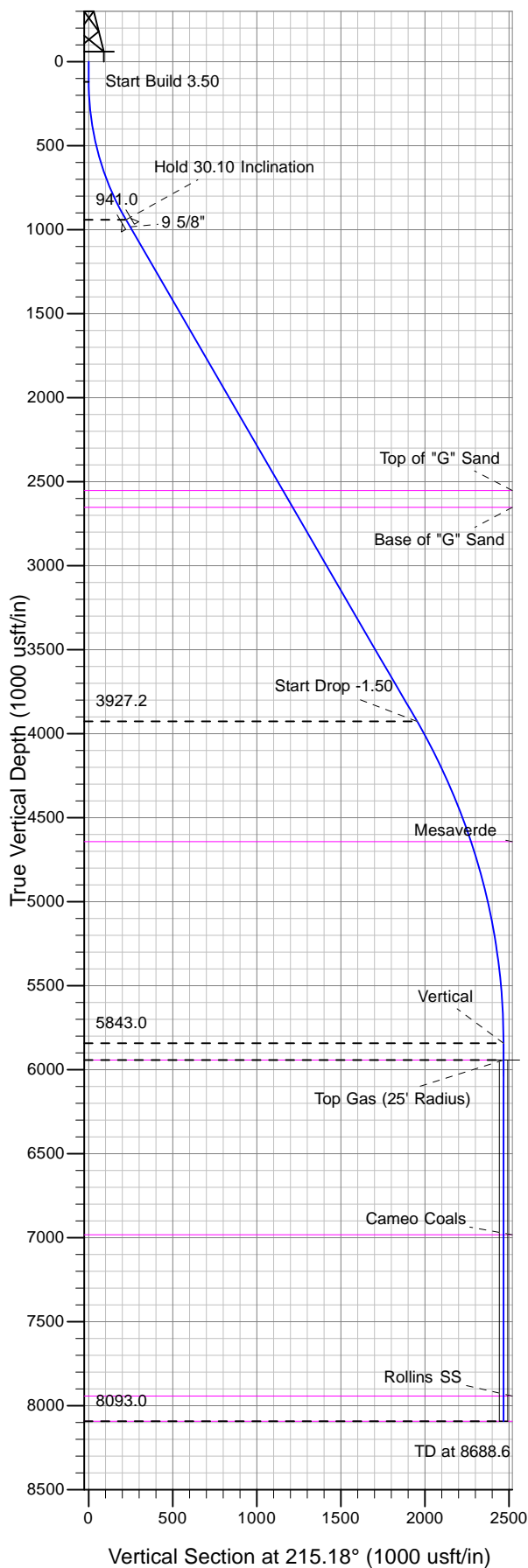




Well Name: PA 414-12
 Surface Location: PA 23-12 Pad
 North American Datum 1983, US State Plane 1983 Colorado Central Zone
 Ground Elevation: 6507.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1598867.30 2308258.20 39° 27' 7.384 N 107° 57' 0.036 W A1
 KELLY BUSHING @ 6533.0usft ((26' RKB) kjs)



Project: PA 12-07S-095W
 Site: PA 23-12 Pad
 Well: PA 414-12
 Plan #2 13Aug10 kjs

Azimuths to True North
 Magnetic North: 10.83°
 Magnetic Field
 Strength: 52653.7snT
 Dip Angle: 65.83°
 Date: 6/5/2007
 Model: IGRF2005-10

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.50
941.0	980.1	30.10	215.18	-180.5	-127.2	220.8	220.8	Hold 30.10 Inclination
3927.2	4431.8	30.10	215.18	-1595.4	-1124.7	1952.0	1952.0	Start Drop -1.50
5843.0	6438.6	0.00	0.00	-2016.5	-1421.5	2467.1	2467.1	Vertical
5943.0	6538.6	0.00	0.00	-2016.5	-1421.5	2467.1	2467.1	Top Gas
8093.0	8688.6	0.00	0.00	-2016.5	-1421.5	2467.1	2467.1	TD at 8688.6