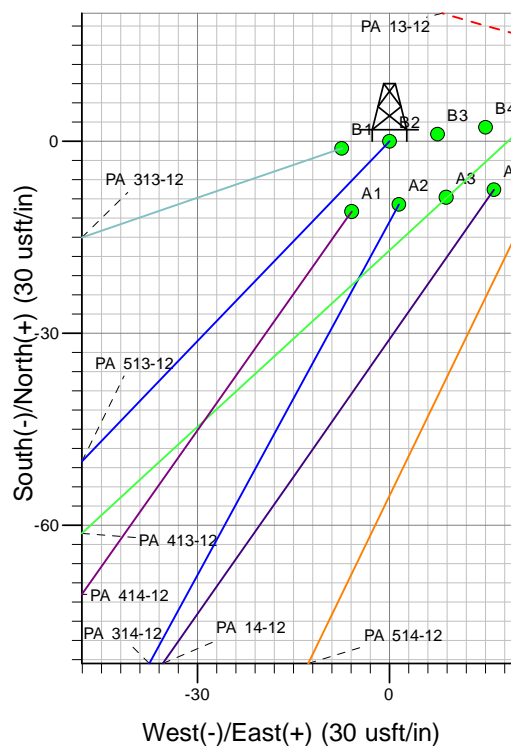
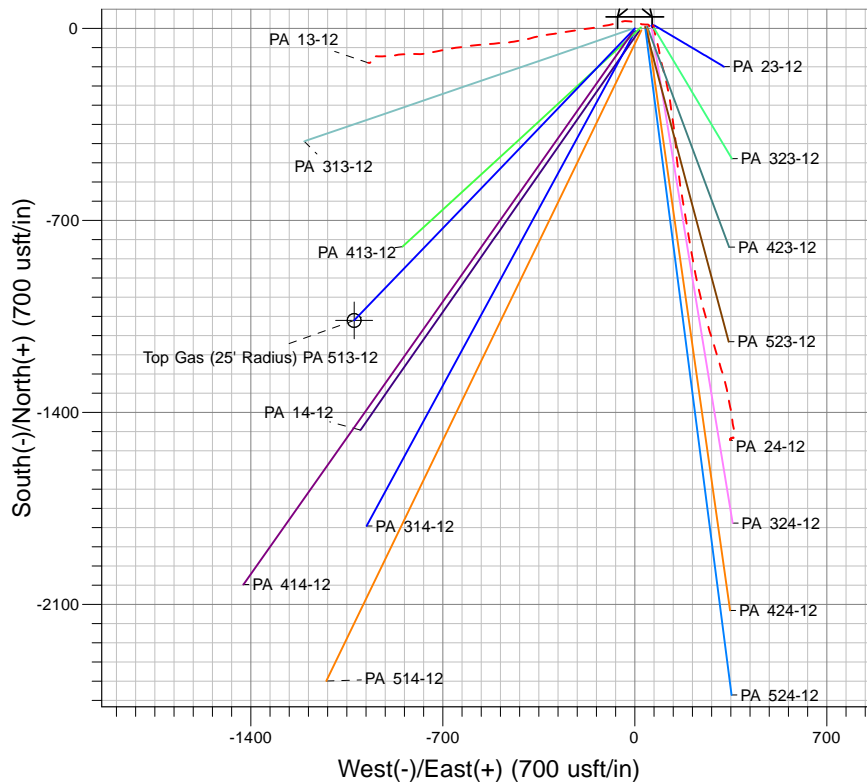
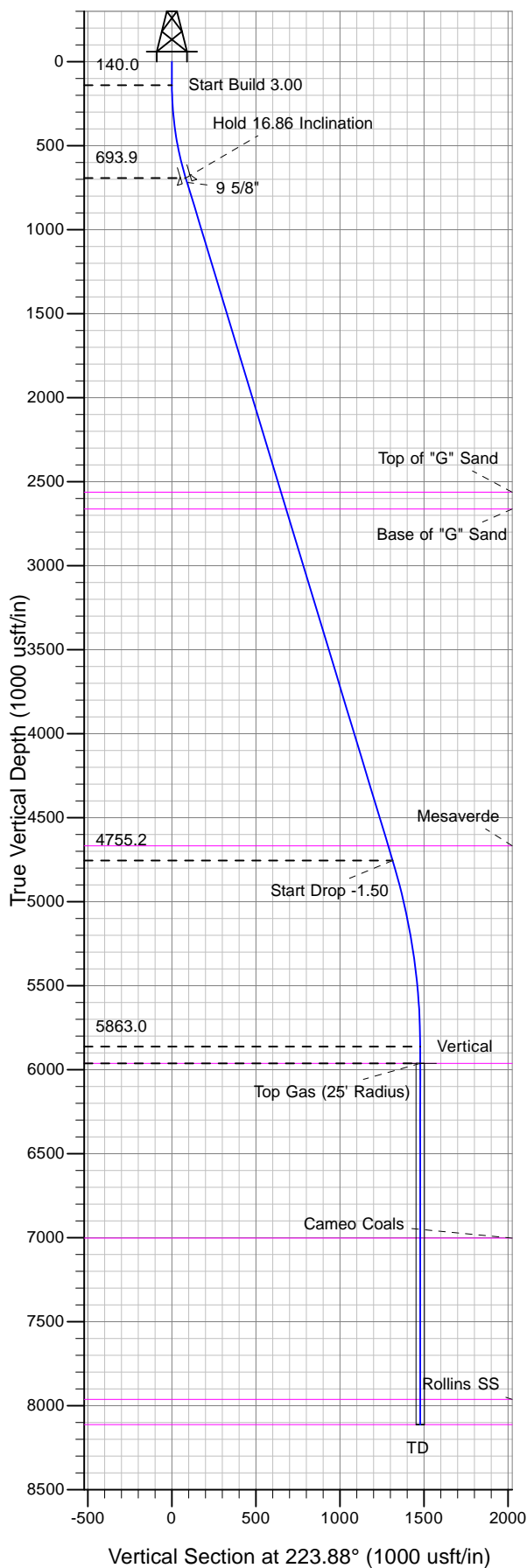




Well Name: PA 513-12  
Surface Location: PA 23-12 Pad  
North American Datum 1983 , US State Plane 1983 Colorado Central Zone  
Ground Elevation: 6507.0  
+N/-S +E/-W Northing Easting Latitude Longitude Slot  
0.0 0.0 1598878.10 2308264.40 39° 27' 7.493 N 107° 56' 59.960 W B2  
KELLY BUSHING @ 6533.0usft ((26' RKB) kjs)



Project: PA 12-07S-095W  
Site: PA 23-12 Pad  
Well: PA 513-12  
Plan #2 16Aug10 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
140.0	140.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.00
693.9	702.0	16.86	223.88	-59.2	-56.9	82.1	82.1	Hold 16.86 Inclination
4755.2	4945.7	16.86	223.88	-946.3	-909.9	1312.8	1312.8	Start Drop -1.50
5863.0	6069.6	0.00	0.00	-1064.6	-1023.7	1477.0	1477.0	Vertical
5963.0	6169.6	0.00	0.00	-1064.6	-1023.7	1477.0	1477.0	Top Gas
8113.0	8319.6	0.00	0.00	-1064.6	-1023.7	1477.0	1477.0	TD at 8319.6