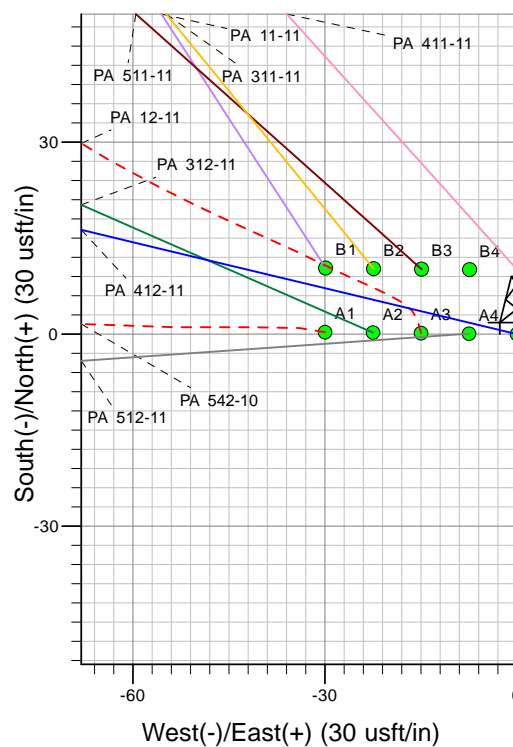
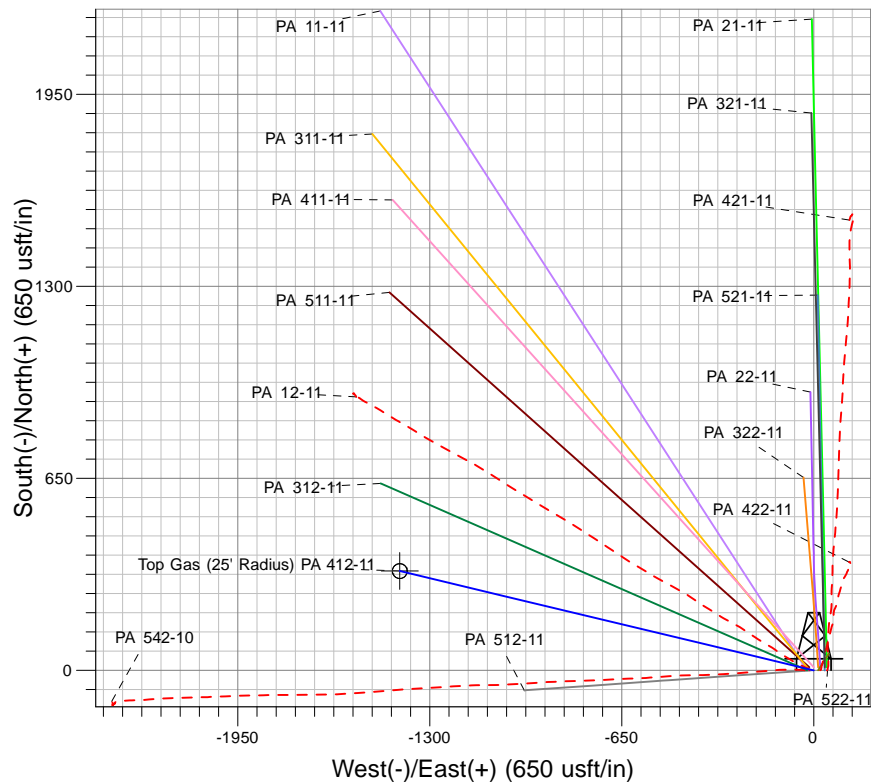
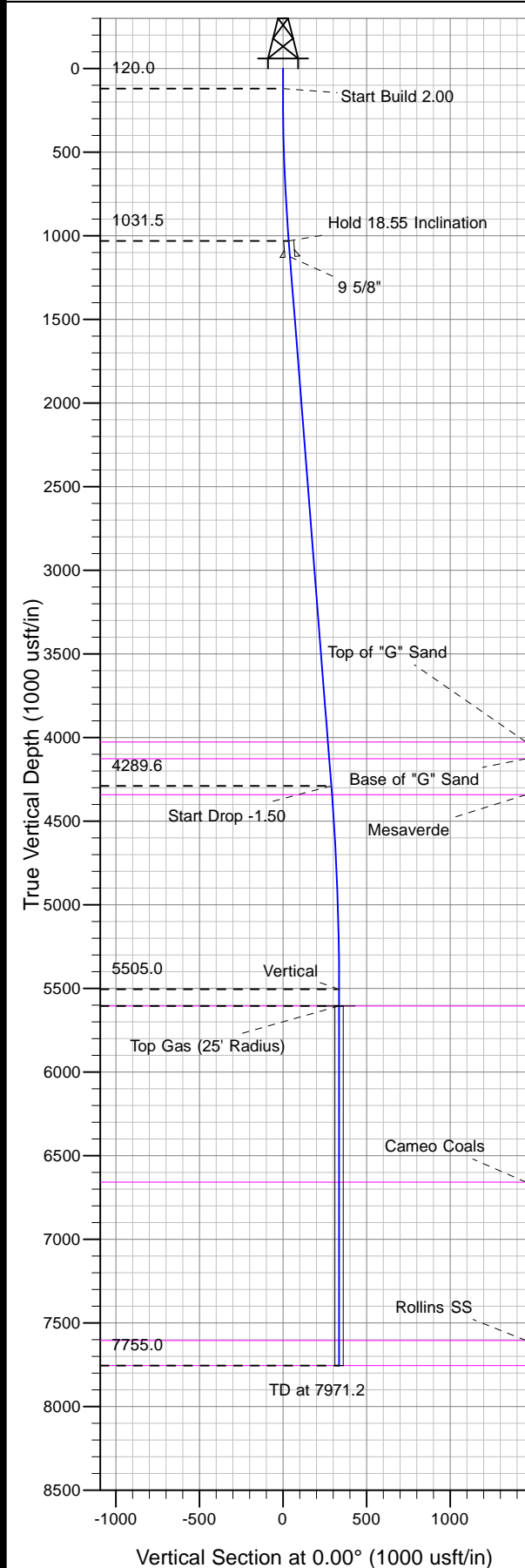




Well Name: PA 412-11
Surface Location: PA 22-11 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6274.0
+N/-S 0.0 +E/-W 0.0 Northing 1599304.50 Easting 2303358.23 Latitude 39° 27' 10.393 N Longitude 107° 58' 2.633 W Slot A5
KELLY BUSHING @ 6300.0usft (Nabors 577 (26' RKB))



Project: PA 11-07S-095W
Site: PA 22-11 Pad
Well: PA 412-11
Plan #2 23Oct12 kjs

Azimuths to True North
Magnetic North: 10.58°
Magnetic Field
Strength: 52461.3snT
Dip Angle: 65.77°
Date: 5/26/2009
Model: IGRF2005-10

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.0	Start Build 2.00
1047.7	18.55	283.48	1031.5	34.7	-144.8	34.7	148.9	Hold 18.55 Inclination
4484.3	18.55	283.48	4289.6	289.5	-1208.2	289.5	1242.4	Start Drop -1.50
5721.2	0.00	0.00	5505.0	335.8	-1401.3	335.8	1440.9	Vertical
5821.2	0.00	0.00	5605.0	335.8	-1401.3	335.8	1440.9	Top Gas
7971.2	0.00	0.00	7755.0	335.8	-1401.3	335.8	1440.9	TD at 7971.2