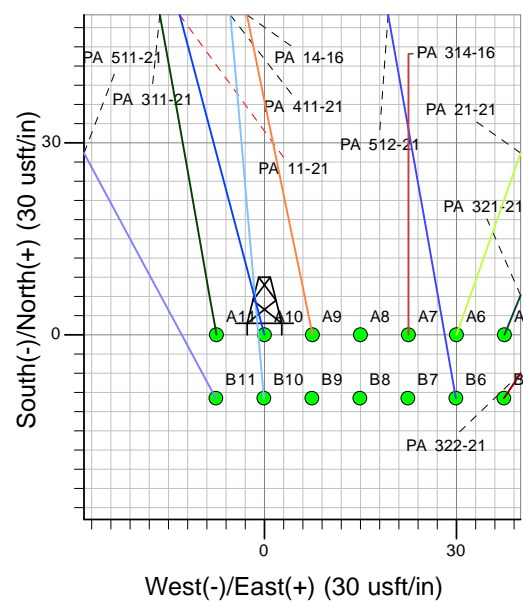
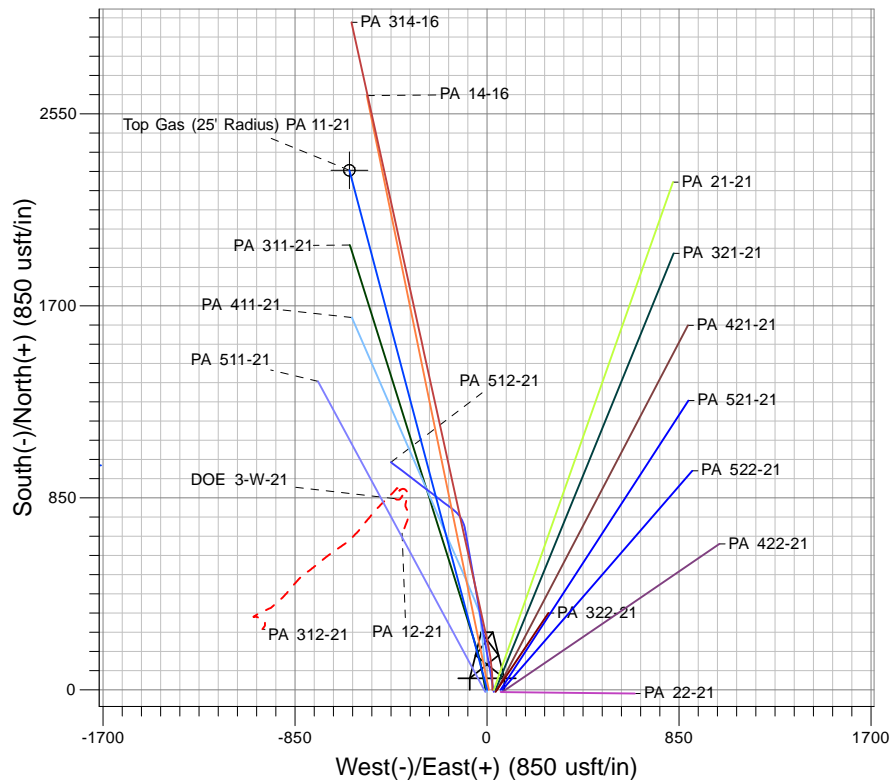
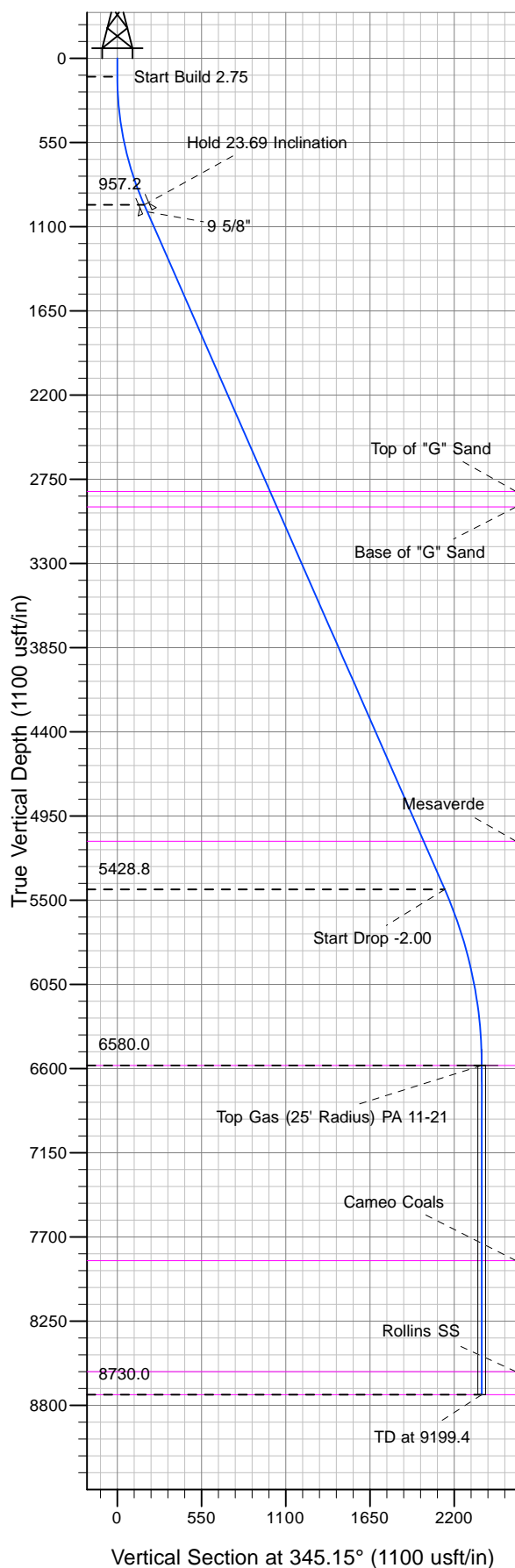




Well Name: PA 11-21
Surface Location: PA 22-21 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6023.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1620700.59 2292444.78 39° 30' 38.832 N 108° 0' 29.247 W A10
KELLY BUSHING @ 6049.0usft (Nabors 577 (26' KB) JMS)



Project: PA 21-06S-095W
Site: PA 22-21 Pad
Well: PA 11-21
Design #1 18Mar10 kjs

Compass rose showing True North (T), Magnetic North (M), and Azimuth (A).

Azimuths to True North
Magnetic North: 10.52°

Magnetic Field
Strength: 52381.8snT
Dip Angle: 65.78°
Date: 3/18/2010
Model: IGRF2010

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 2.75	
957.2	981.6	23.69	345.15	169.7	-45.0	175.6	175.6	Hold 23.69 Inclination	
5428.8	5864.8	23.69	345.15	2066.4	-548.0	2137.9	2137.9	Start Drop -2.00	
6580.0	7049.4	0.00	0.00	2299.8	-609.9	2379.3	2379.3	Top gas	
8730.0	9199.4	0.00	0.00	2299.8	-609.9	2379.3	2379.3	TD at 9199.4	