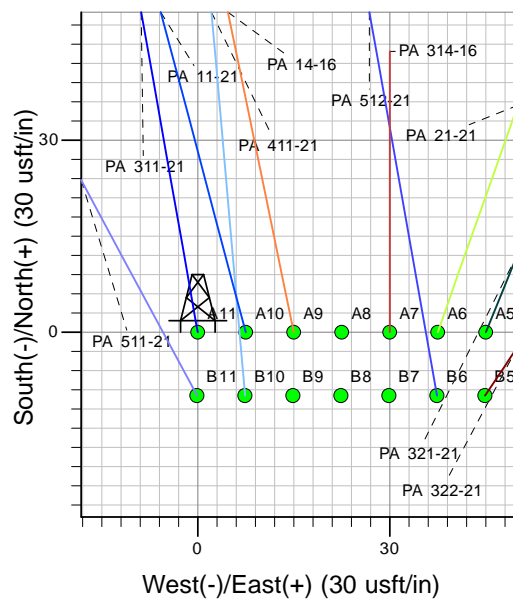
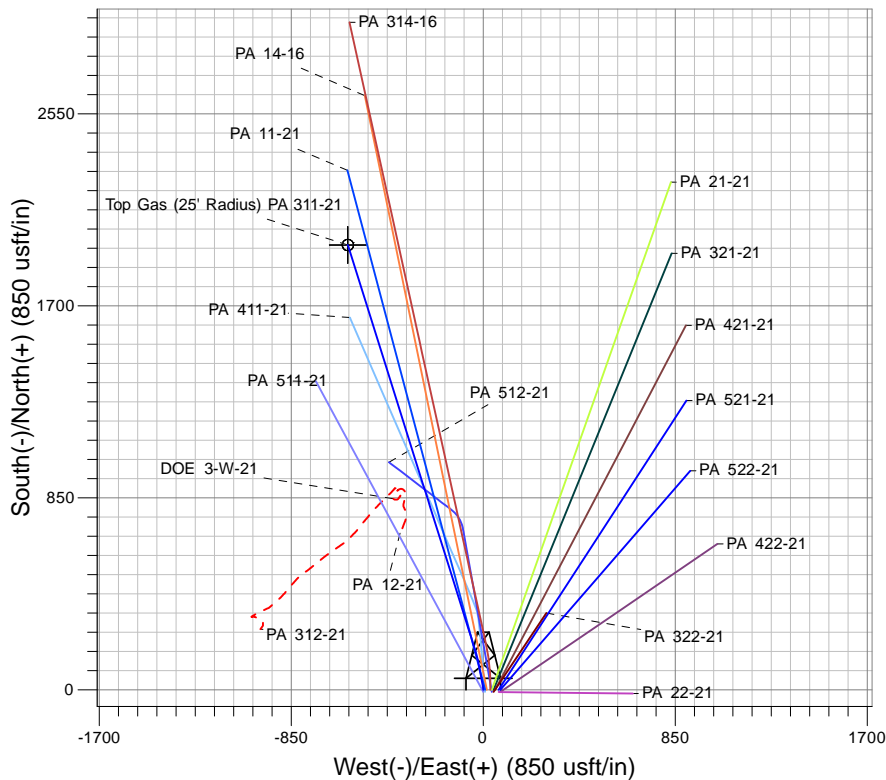
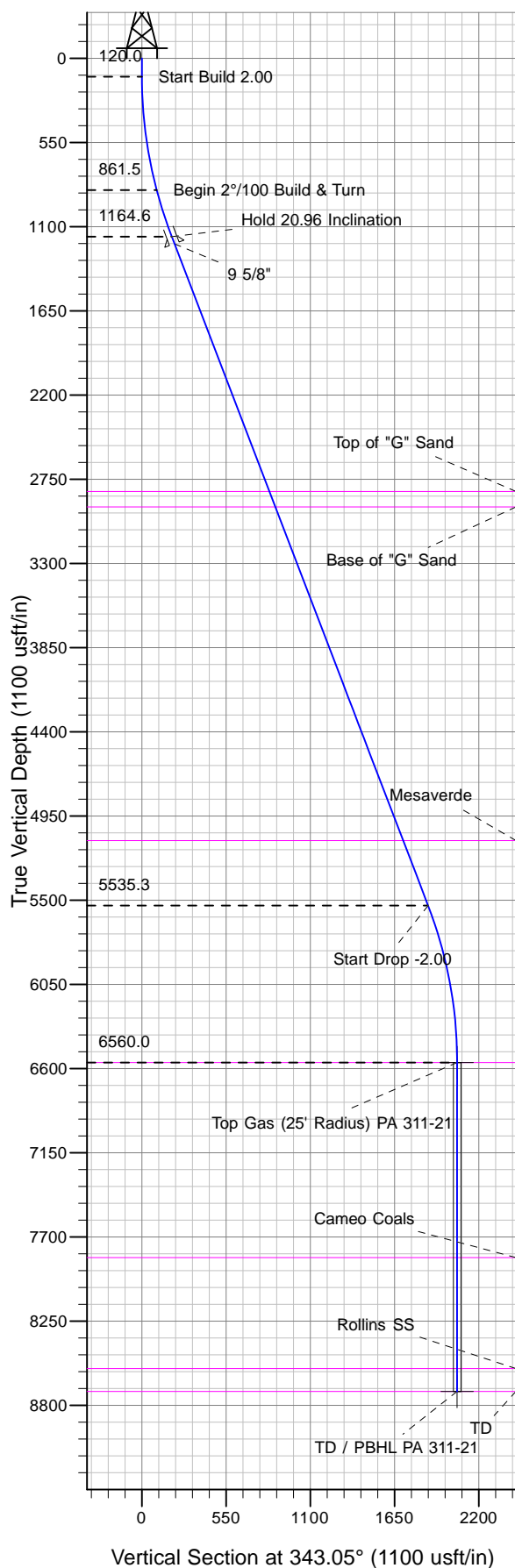




Well Name: PA 311-21
 Surface Location: PA 22-21 Pad
 North American Datum 1983 , US State Plane 1983, Colorado Central Zone
 Ground Elevation: 6023.0
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.0 0.0 1620700.80 2292437.28 39° 30' 38.832 N 108° 0' 29.343 W A11
 KELLY BUSHING @ 6049.0usft (Nabors 577 (26' KB) JMS)



Project: PA 21-06S-095W
 Site: PA 22-21 Pad
 Well: PA 311-21
 Design #1 18Mar10 kjs



Azimuths to True North
 Magnetic North: 10.52°
 Magnetic Field
 Strength: 52381.7snT
 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 2.00
861.5	870.0	15.00	350.00	96.1	-17.0	96.9	97.6	Begin 2°/100 Build & Turn
1164.6	1188.8	20.96	342.55	191.2	-41.2	195.0	195.9	Hold 20.96 Inclination
5535.3	5869.1	20.96	342.55	1788.3	-543.3	1869.0	1870.0	Start Drop -2.00
6560.0	6917.1	0.00	0.00	1969.2	-600.1	2058.6	2059.5	Top Gas
8710.0	9067.1	0.00	0.00	1969.2	-600.1	2058.6	2059.5	TD at 9067.1