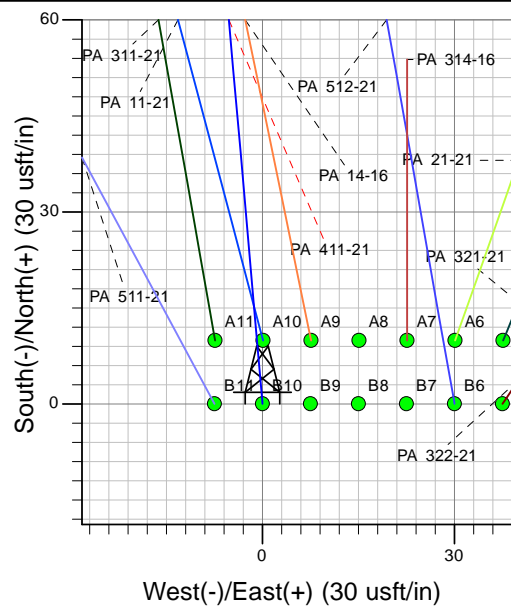
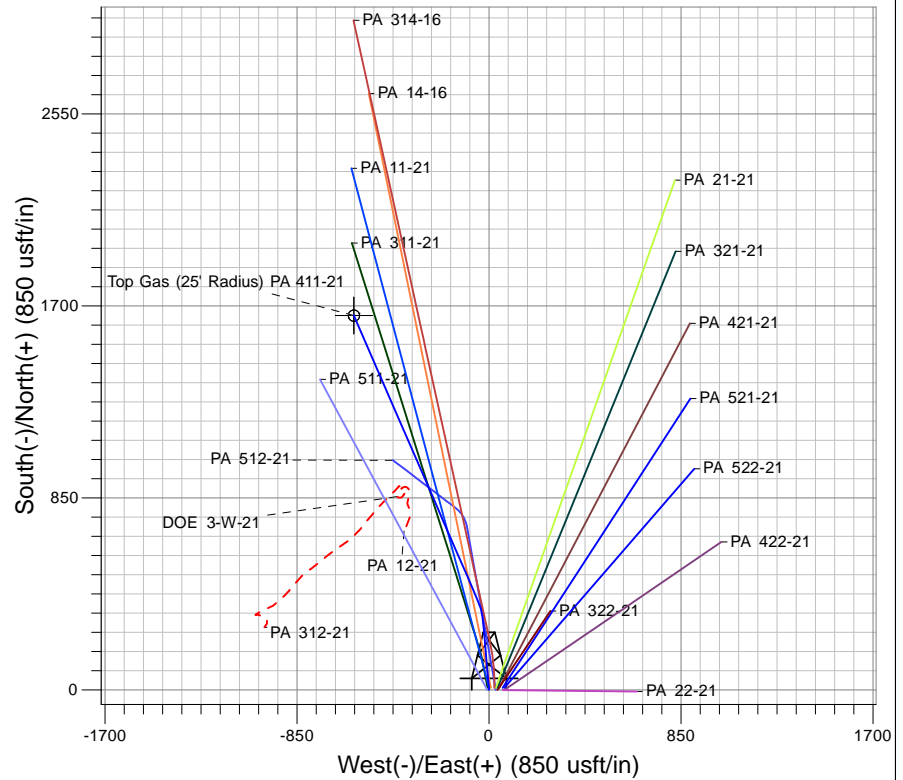
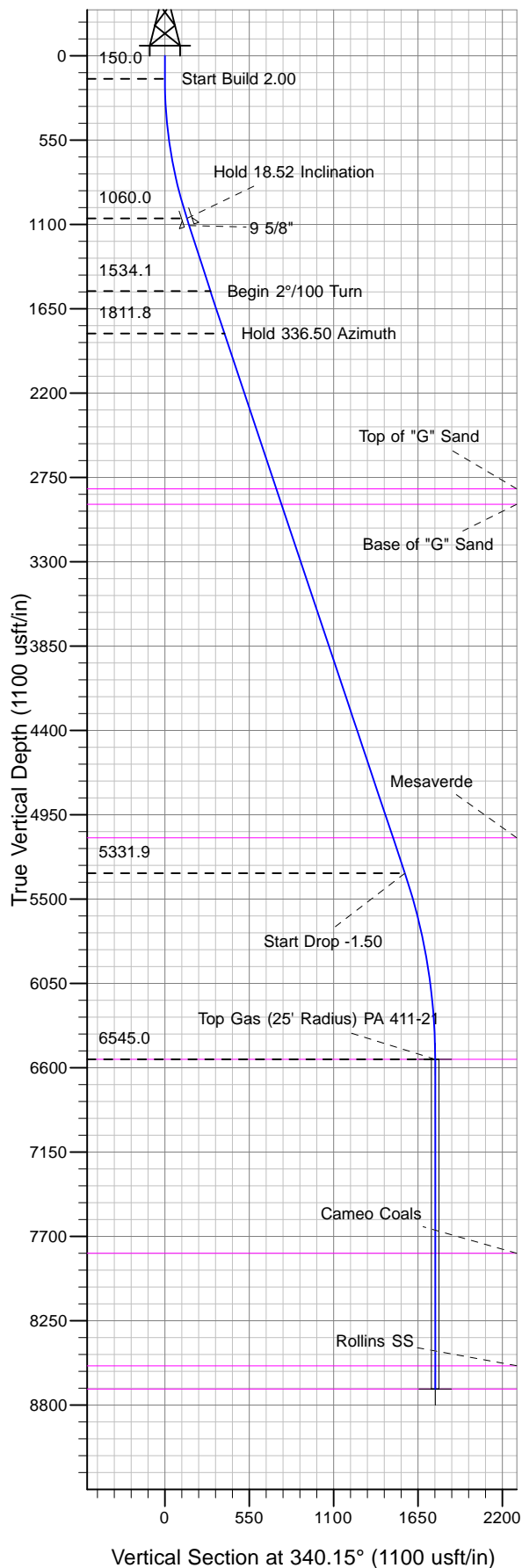




Well Name: PA 411-21
Surface Location: PA 22-21 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6023.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1620690.70 2292444.41 39° 30' 38.734 N 108° 0' 29.248 W B10
KELLY BUSHING @ 6049.0usft (Nabors 577 (26' KB) JMS)



Project: PA 21-06S-095W
Site: PA 22-21 Pad
Well: PA 411-21
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
150.0	150.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 2.00
1060.0	1076.0	18.52	355.00	147.8	-12.9	143.4	148.4	Hold 18.52 Inclination
1534.1	1576.0	18.52	355.00	306.0	-26.8	296.9	307.2	Begin 2°/100 Turn
1811.8	1868.7	18.52	336.50	395.0	-49.4	388.3	399.5	Hold 336.50 Azimuth
5331.9	5580.9	18.52	336.50	1476.2	-519.5	1564.9	1578.5	Start Drop -1.50
6545.0	6815.4	0.00	0.00	1657.6	-598.4	1762.3	1776.3	Top Gas
8695.0	8965.4	0.00	0.00	1657.6	-598.4	1762.3	1776.3	TD at 8965.4