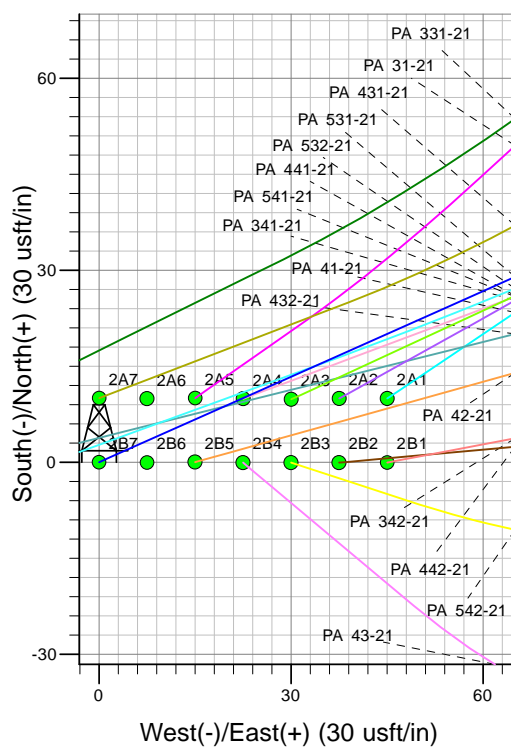
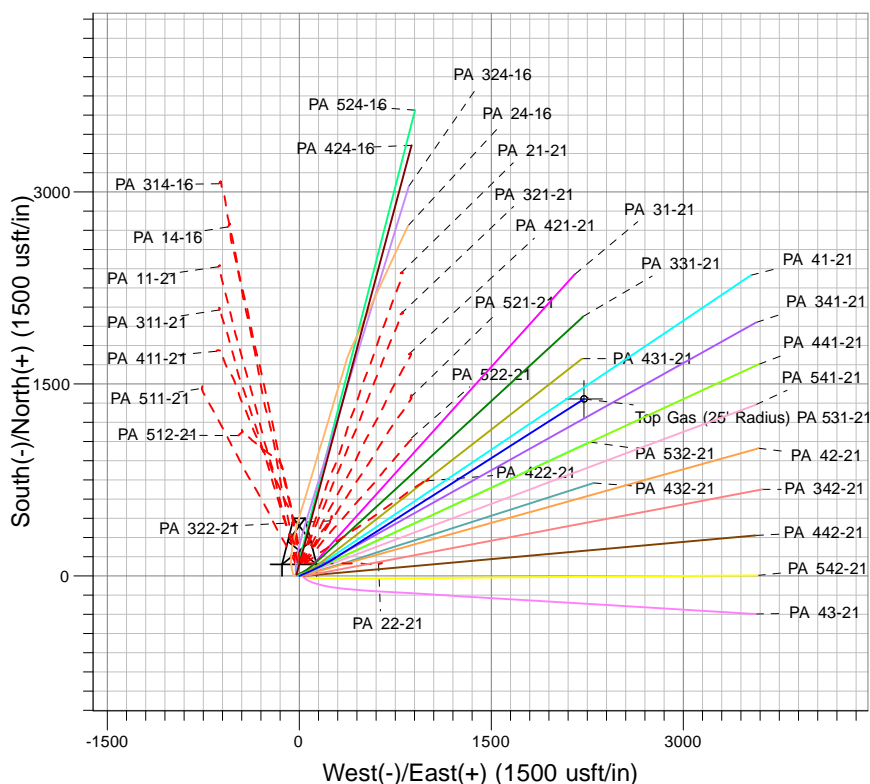
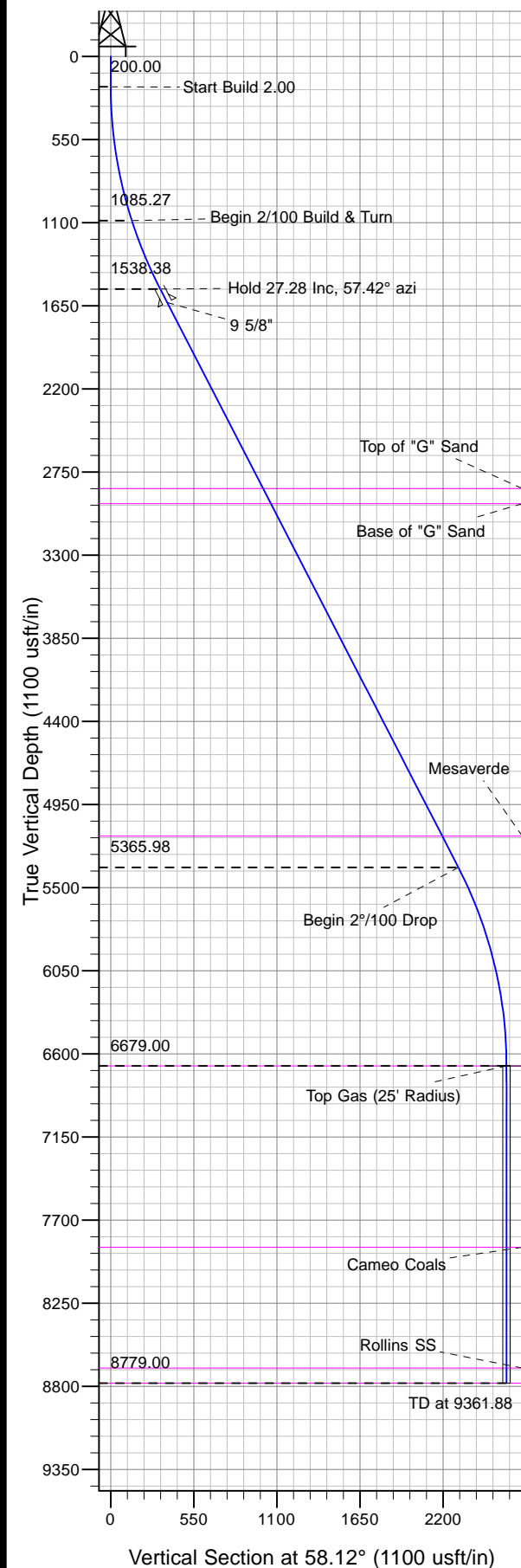




Well Name: PA 531-21
Surface Location: PA 22-21 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6030.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1620590.50	2292464.20	39.51049	-108.00804	2B7

KELLY BUSHING @ 6056.00usft (Nabors 26')



Project: PA 21-06S-095W
Site: PA 22-21 Pad
Well: PA 531-21
Design #2 07Nov12 kjs

Azimuths to True North
Magnetic North: 10.23°
Magnetic Field
Strength: 52157.4snT
Dip Angle: 65.72°
Date: 6/6/2012
Model: IGRF2010

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	Start Build 2.00
1100.00	18.00	66.00	1085.27	57.03	128.09	138.89	140.21	Begin 2°/100 Build & Turn
1591.34	27.28	57.42	1538.38	148.77	292.72	327.14	328.86	Hold 27.28 Inc, 57.42° azi
5897.91	27.28	57.42	5365.98	1211.72	1955.88	2300.81	2302.68	Begin 2°/100 Drop
7261.88	0.00	193.60	6679.00	1383.29	2224.35	2619.40	2621.29	Top Gas
9361.88	0.00	193.60	8779.00	1383.29	2224.35	2619.39	2621.30	TD at 9361.88