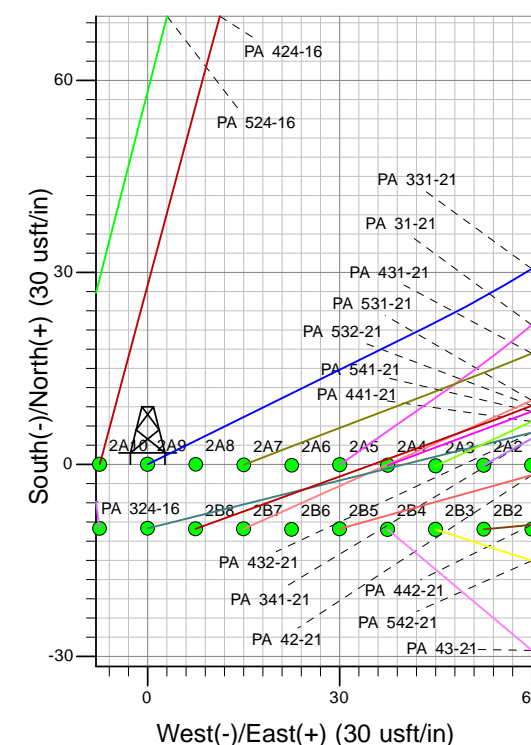
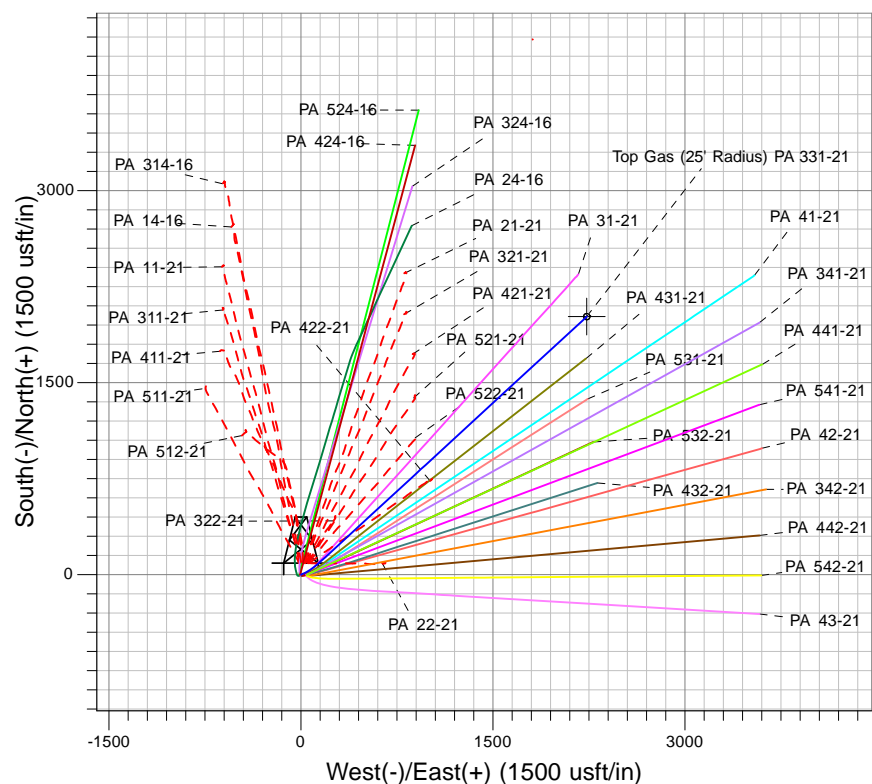
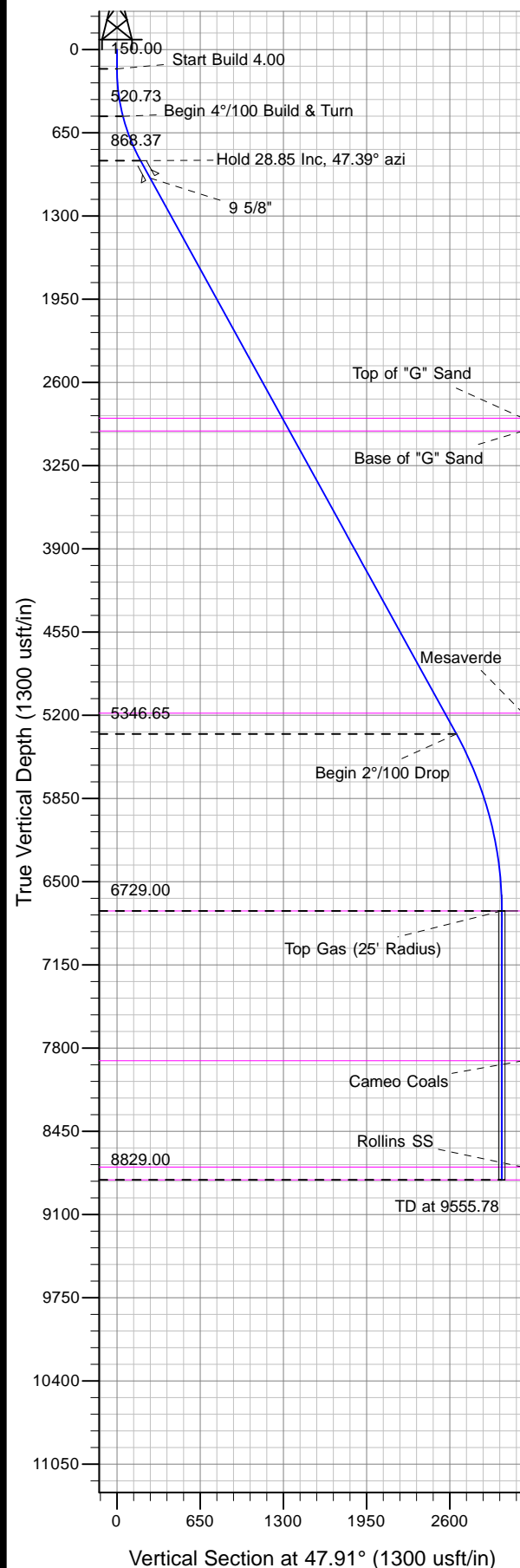




Well Name: PA 331-21
Surface Location: PA 22-21 Pad
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 6030.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 1620601.00 2292449.50 39.51051 -108.00810 2A9
KELLY BUSHING @ 6056.00usft (Nabors 26')



Project: PA 21-06S-095W
Site: PA 22-21 Pad
Well: PA 331-21
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
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	Start Build 4.00
525.00	15.00	63.75	520.73	21.59	43.77	46.96	48.81	Begin 4°/100 Build & Turn
900.34	28.85	47.39	868.37	104.85	154.62	185.03	187.90	Hold 28.85 Inc, 47.39° azi
6013.23	28.85	47.39	5346.65	1775.14	1970.36	2652.06	2655.04	Begin 2°/100 Drop
7455.78	0.00	272.15	6729.00	2015.87	2232.05	3007.62	3010.62	Top Gas
9555.78	0.00	272.15	8829.00	2015.87	2232.05	3007.62	3010.62	TD at 9555.78