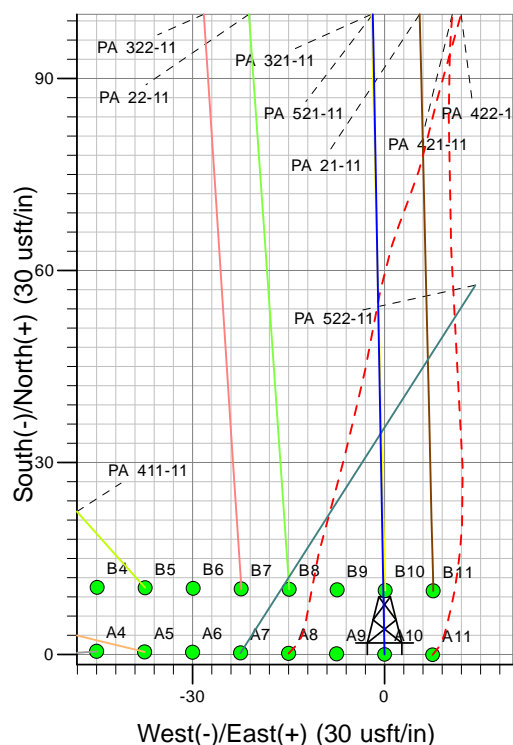
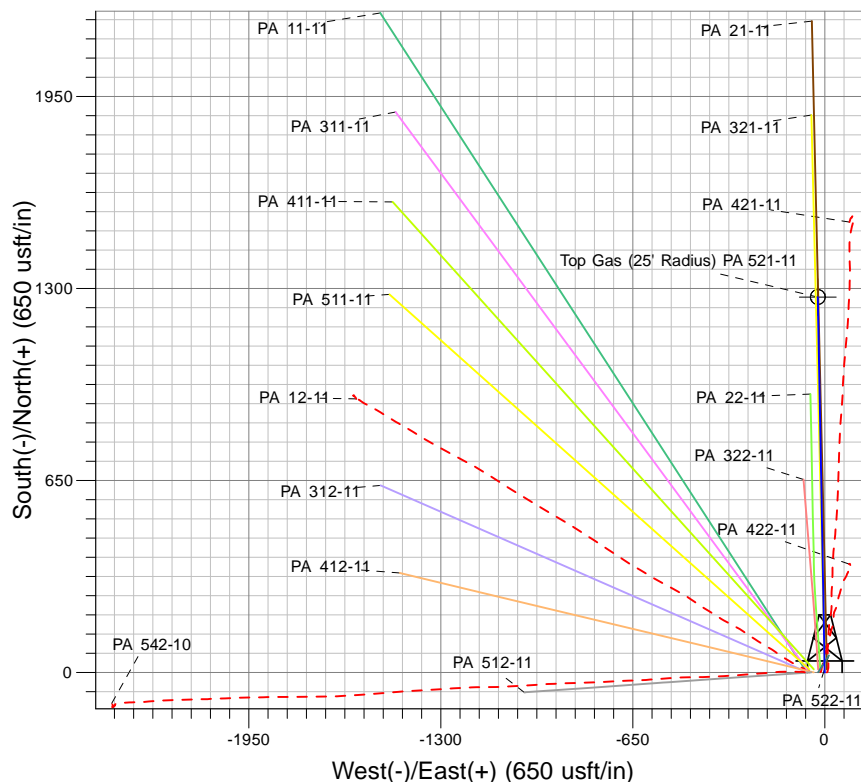
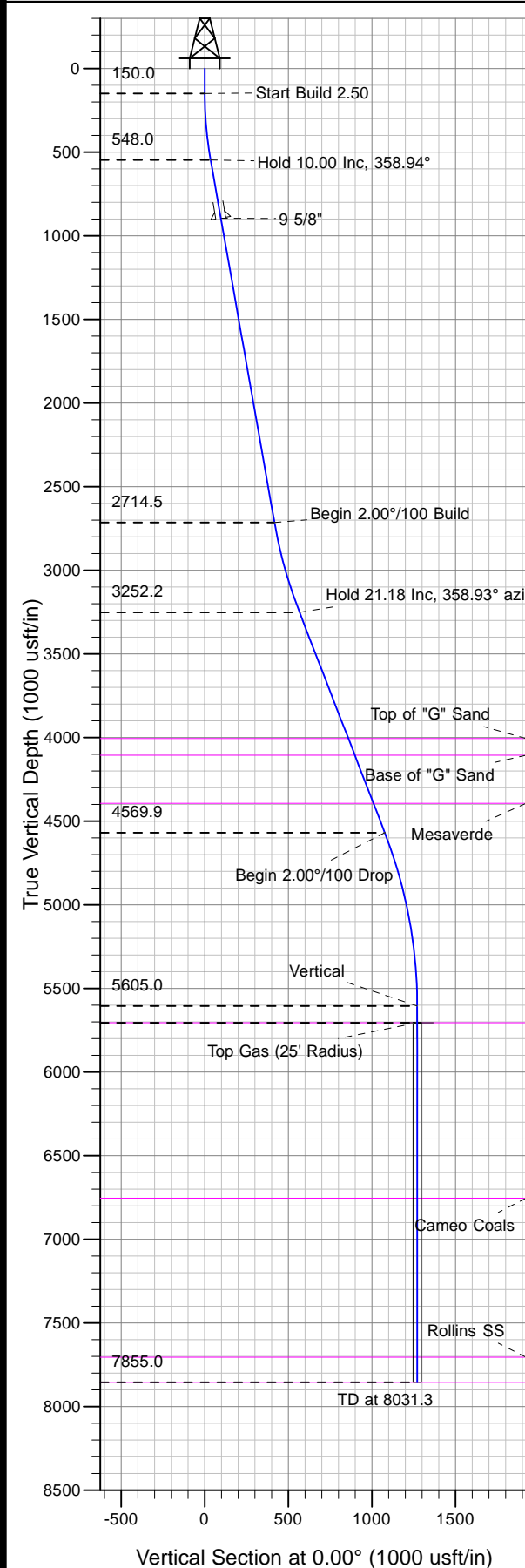




Well Name: PA 521-11
Surface Location: PA 22-11 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6274.0
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.0 0.0 1599303.08 2303395.71 39° 27' 10.389 N 107° 58' 2.155 W A10
KELLY BUSHING @ 6300.0usft (Nabors 577 (26' RKB))



Project: PA 11-07S-095W
Site: PA 22-11 Pad
Well: PA 521-11
Plan #2 23Oct12 kjs

Azimuths to True North
Magnetic North: 10.57°
Magnetic Field
Strength: 52459.2snT
Dip Angle: 65.77°
Date: 6/3/2009
Model: IGRF2005-10

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V/Sect	Departure	Annotation
150.0	0.00	0.00	150.0	0.0	0.0	0.0	0.0	Start Build 2.50
550.0	10.00	358.94	548.0	34.8	-0.6	34.8	34.8	Hold 10.00 Inc, 358.94°
2750.0	10.00	358.94	2714.5	416.8	-7.7	416.8	416.8	Begin 2.00°/100 Build
3309.0	21.18	358.93	3252.2	566.7	-10.5	566.7	566.8	Hold 21.18 Inc, 358.93° azi
4722.3	21.18	358.93	4569.9	1077.3	-20.0	1077.3	1077.5	Begin 2.00°/100 Drop
5781.3	0.00	0.00	5605.0	1270.8	-23.6	1270.8	1271.0	Vertical
5881.3	0.00	0.00	5705.0	1270.8	-23.6	1270.8	1271.0	Top Gas
8031.3	0.00	0.00	7855.0	1270.8	-23.6	1270.8	1271.0	TD at 8031.3