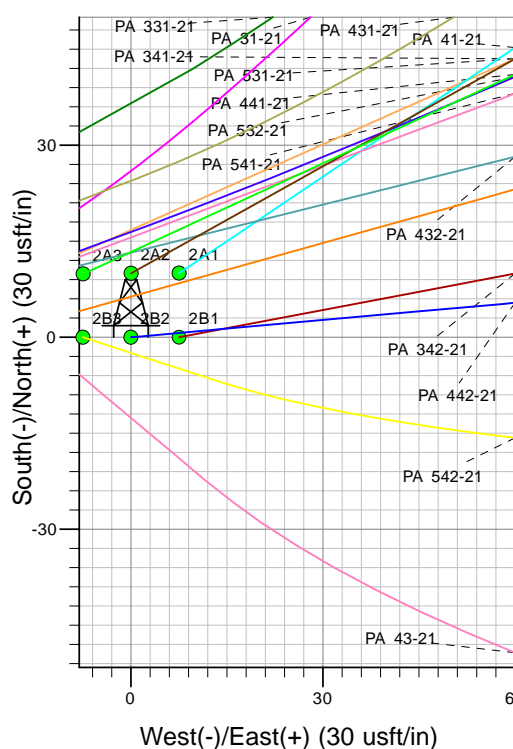
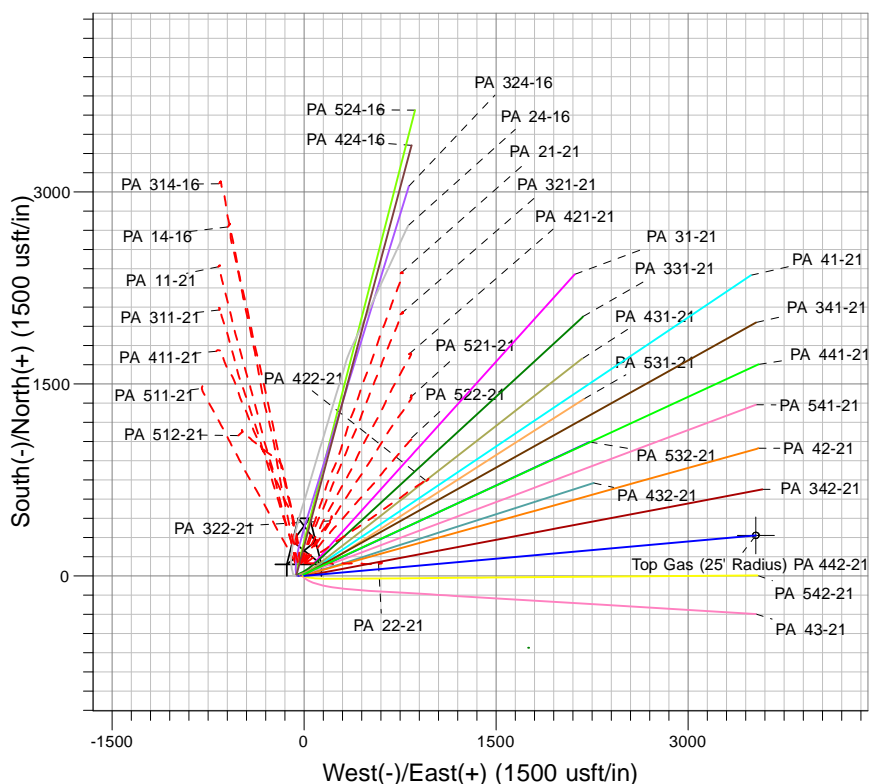
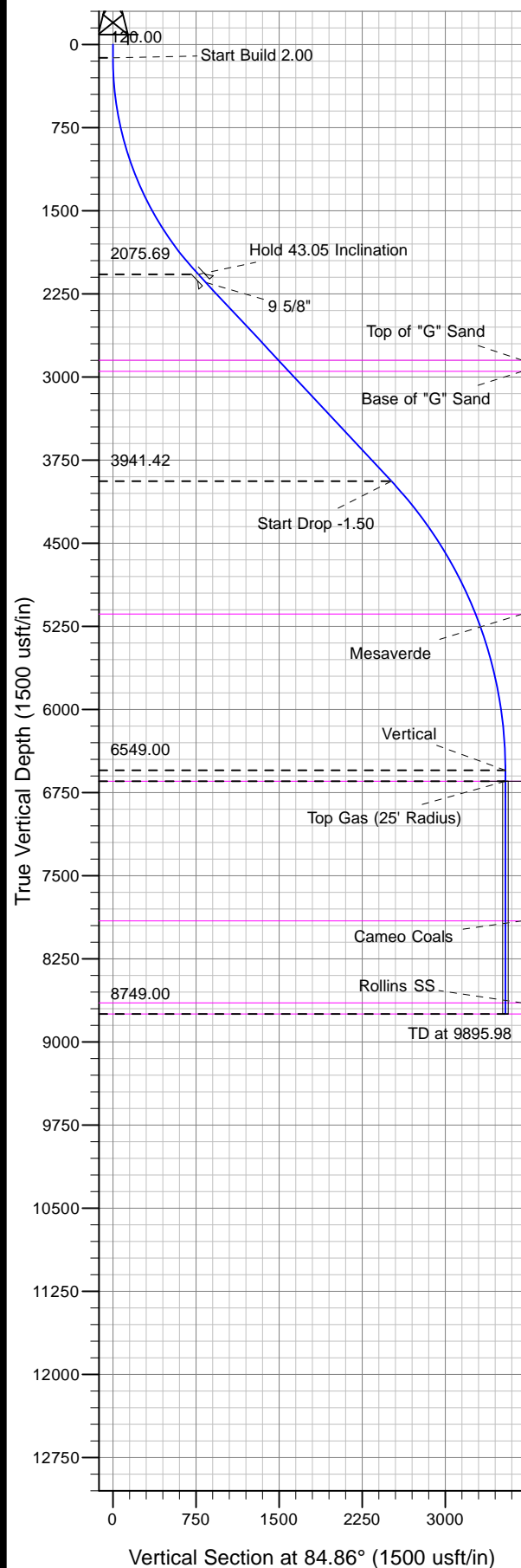




Well Name: PA 442-21
Surface Location: PA 22-21 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 6030.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1620589.40	2292501.70	39.51049	-108.00791	2B2

KELLY BUSHING @ 6056.00usft (Nabors 26')



Project: PA 21-06S-095W
Site: PA 22-21 Pad
Well: PA 442-21
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
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 2.00
2272.61	43.05	84.86	2075.69	69.04	768.30	771.39	771.39	Hold 43.05 Inclination
4825.84	43.05	84.86	3941.42	225.05	2504.30	2514.39	2514.39	Start Drop -1.50
7695.98	0.00	0.00	6549.00	317.11	3528.70	3542.92	3542.92	Vertical
7795.98	0.00	0.00	6649.00	317.11	3528.70	3542.92	3542.92	Top Gas
9895.98	0.00	0.00	8749.00	317.11	3528.70	3542.92	3542.92	TD at 9895.98