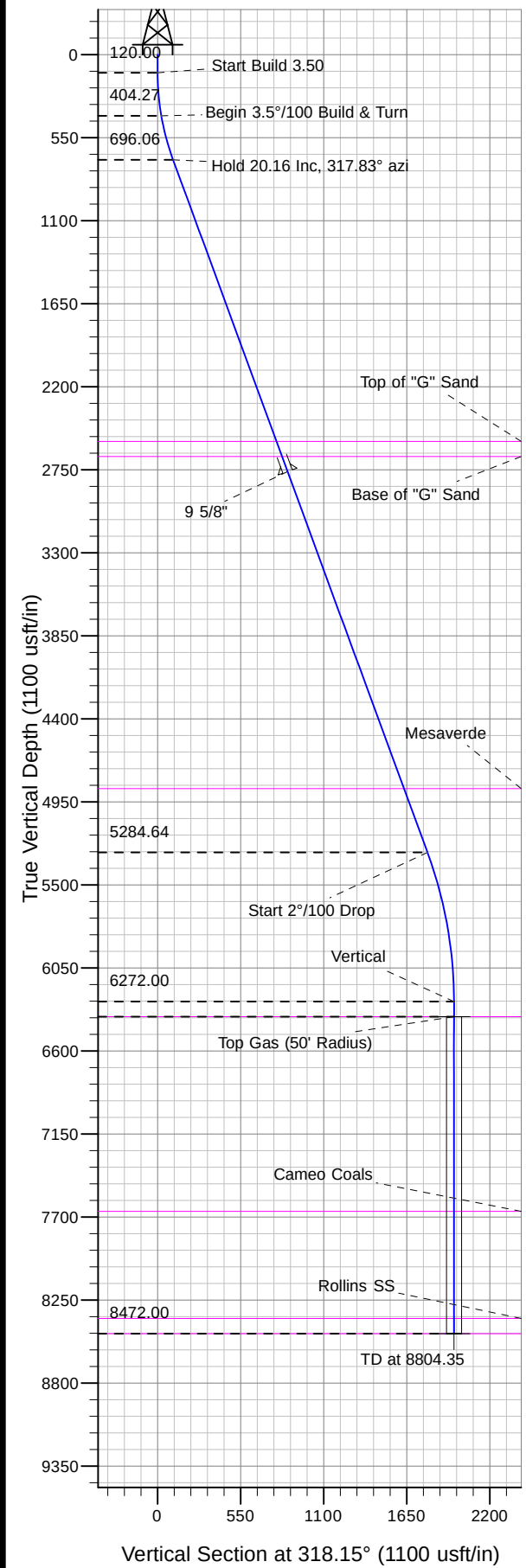
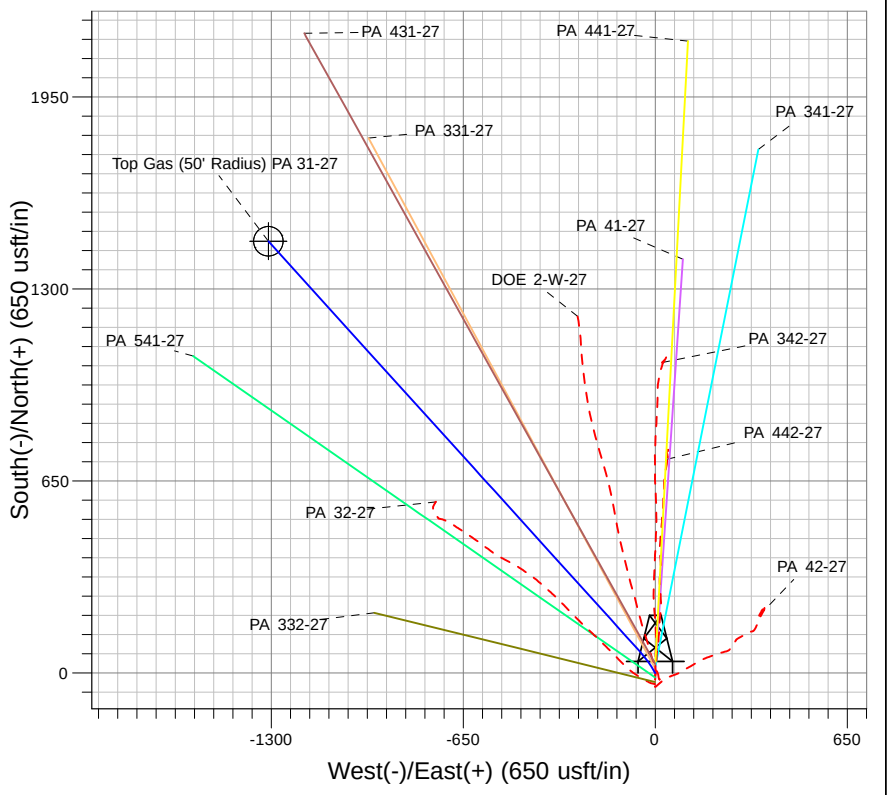
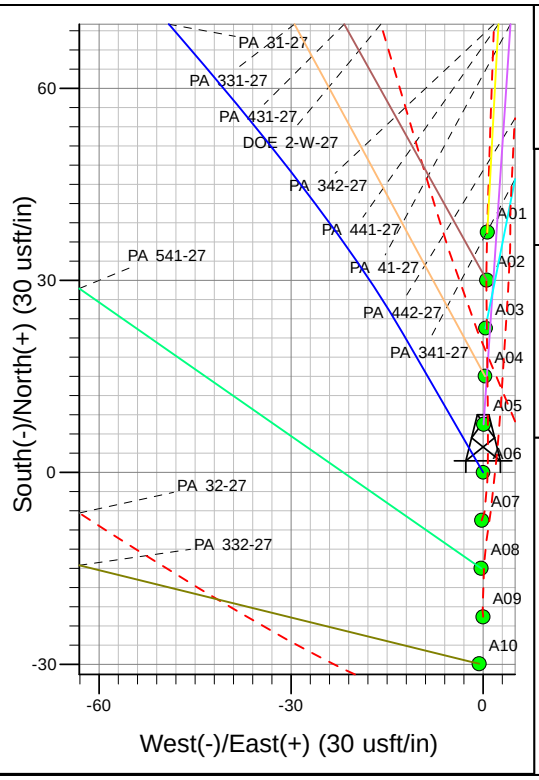
Well Name: PA 31-27
Surface Location: DOE 2-W-27 Pad
North American Datum 1983 , US State Plane 1983, Colorado Central Zone
Ground Elevation: 5856.00

+N/-S	+E/-W	Northing	Easting	Latittude	Longitude	Slot
0.00	0.00	1615072.80	2300864.80	39.49598	-107.97775	A06

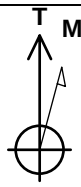
KELLY BUSHING @ 5882.00usft (Nabors 577 (26' RKB) kjs)







Project: PA 27-06S-095W
Site: DOE 2-W-27 Pad
Well: PA 31-27
Design #1 13May13 kjs



Azimuths to True North
Magnetic North: 11.45°

Magnetic Field
Strength: 53051.6snT
Dip Angle: 65.99°
Date: 12/31/2004
Model: IGRF2000

ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
120.00	120.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 3.50
404.27	405.71	10.00	330.00	21.54	-12.44	24.34	24.87	Begin 3.5°/100 Build & Turn
696.06	708.24	20.16	317.83	83.10	-60.70	102.40	103.25	Hold 20.16 Inc, 317.83° azi
5284.64	5596.32	20.16	317.83	1331.75	-1191.67	1787.07	1787.95	Start 2°/100 Drop
6272.00	6604.35	0.00	0.00	1461.84	-1309.50	1962.60	1963.48	Vertical
6372.00	6704.35	0.00	0.00	1461.84	-1309.50	1962.60	1963.48	Top Gas
8472.00	8804.35	0.00	0.00	1461.84	-1309.50	1962.60	1963.48	TD at 8804.35