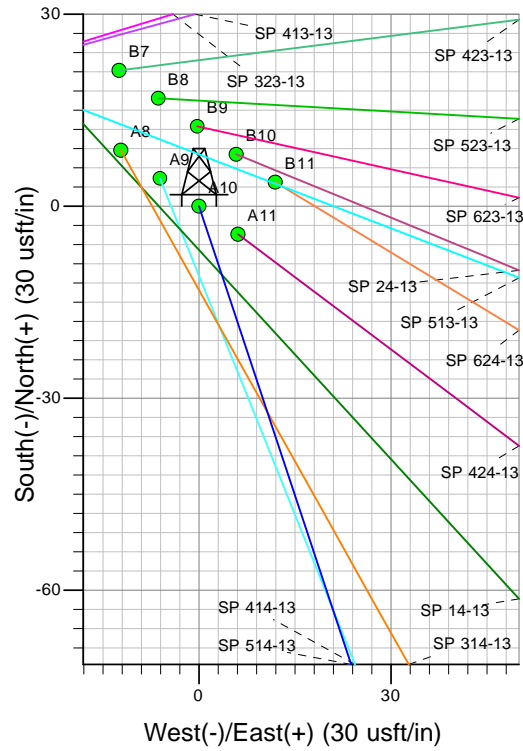
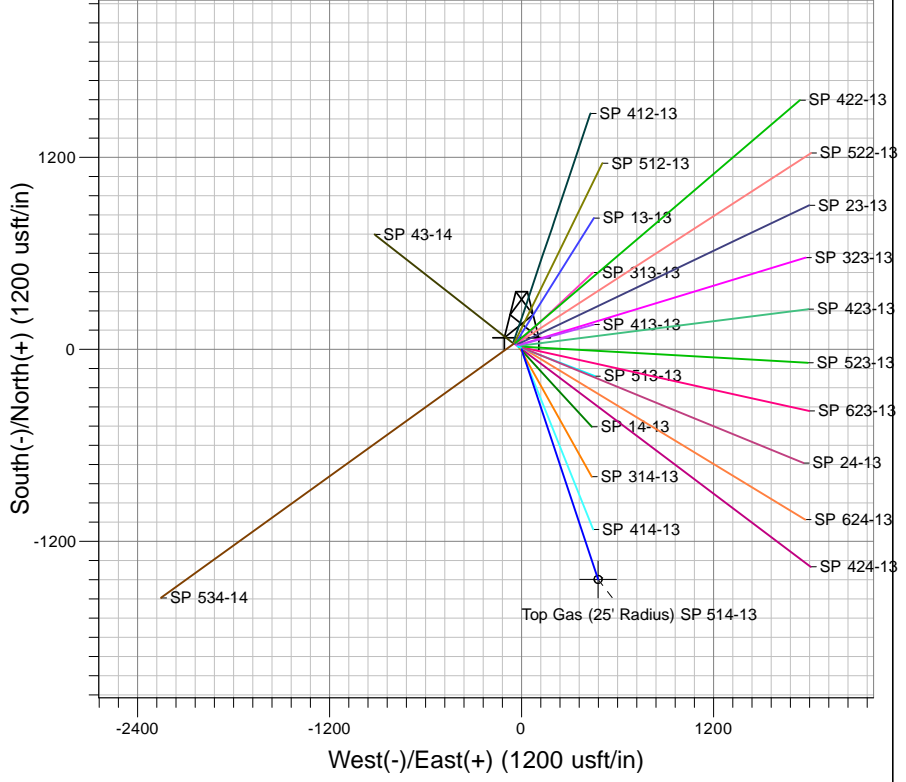
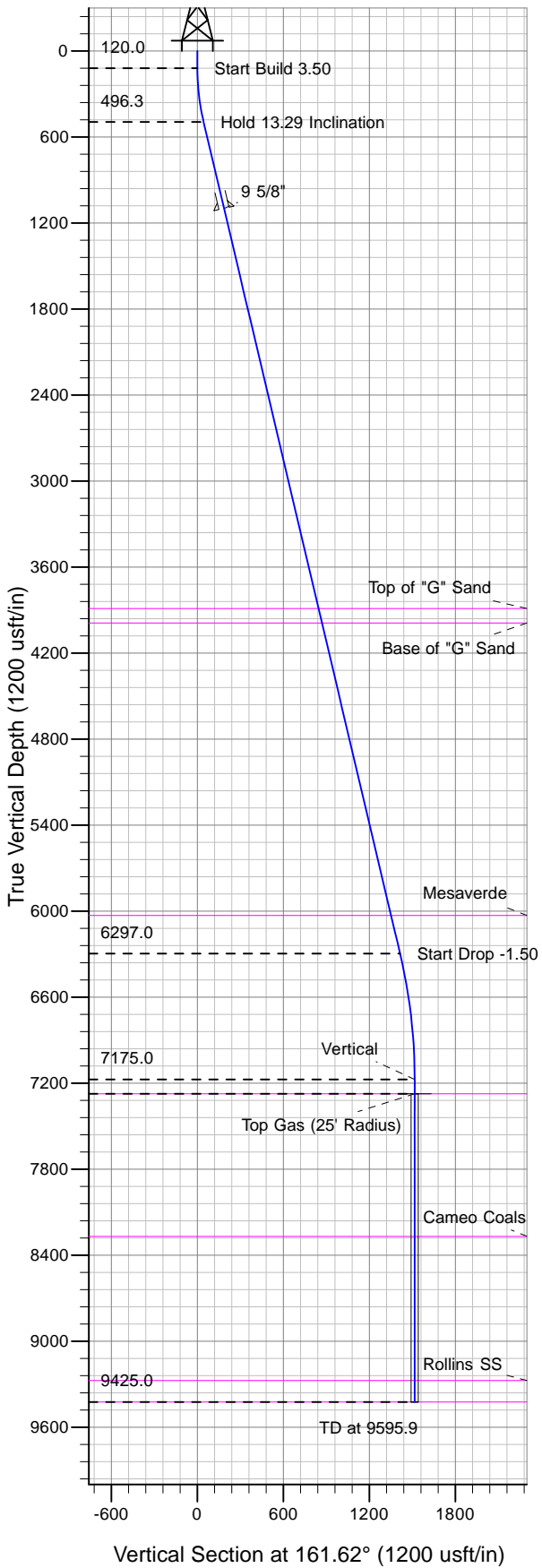




Well Name: SP 514-13
Surface Location: SP 13-13 Pad East
North American Datum 1983 , US State Plane 1983 , Colorado Central Zone
Ground Elevation: 7986.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1592677.79	2306752.48	39° 26' 5.829 N	107° 57' 17.093 W	A10

KELLY BUSHING @ 8010.0usft (H&P 278 (24' RKB) kjs)



Project: PA 13-07S-095W
Site: SP 13-13 Pad East
Well: SP 514-13
Design #1 08Nov10 kjs

T Azimuths to True North
M Magnetic North: 10.40°
Magnetic Field
Strength: 52266.6snT
Dip Angle: 65.71°
Date: 11/8/2010
Model: IGRF2010

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Departure	Annotation	
120.0	120.0	0.00	0.00	0.0	0.0	0.0	0.0	Start Build 3.50	
496.3	499.7	13.29	161.62	-41.6	13.8	43.8	43.8	Hold 13.29 Inclination	
6297.0	6460.0	13.29	161.62	-1341.7	445.7	1413.8	1413.8	Start Drop -1.50	
7175.0	7345.9	0.00	0.00	-1438.8	478.0	1516.1	1516.1	Vertical	
7275.0	7445.9	0.00	0.00	-1438.8	478.0	1516.1	1516.1	Top Gas	
9425.0	9595.9	0.00	0.00	-1438.8	478.0	1516.1	1516.1	TD at 9595.9	