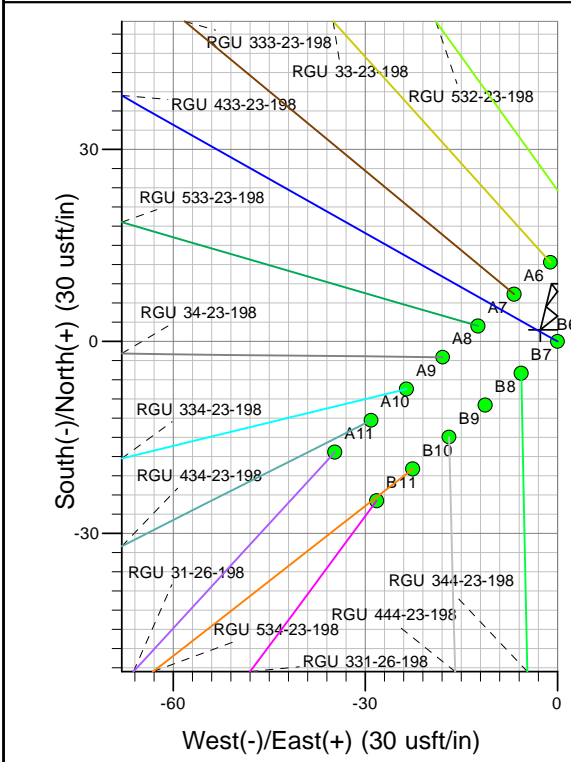
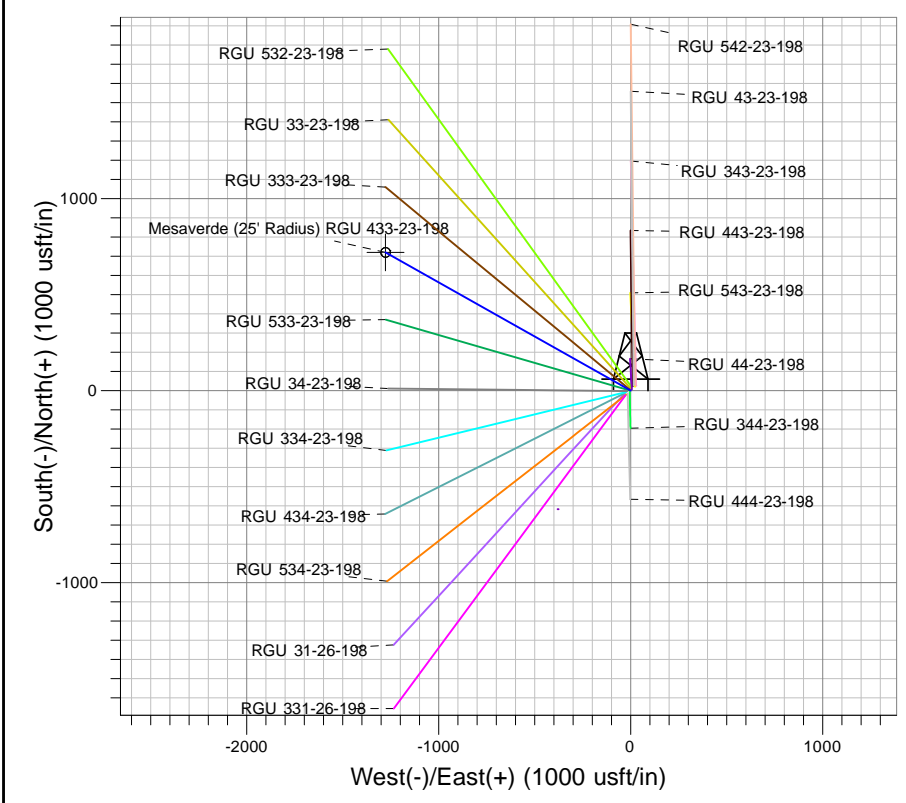
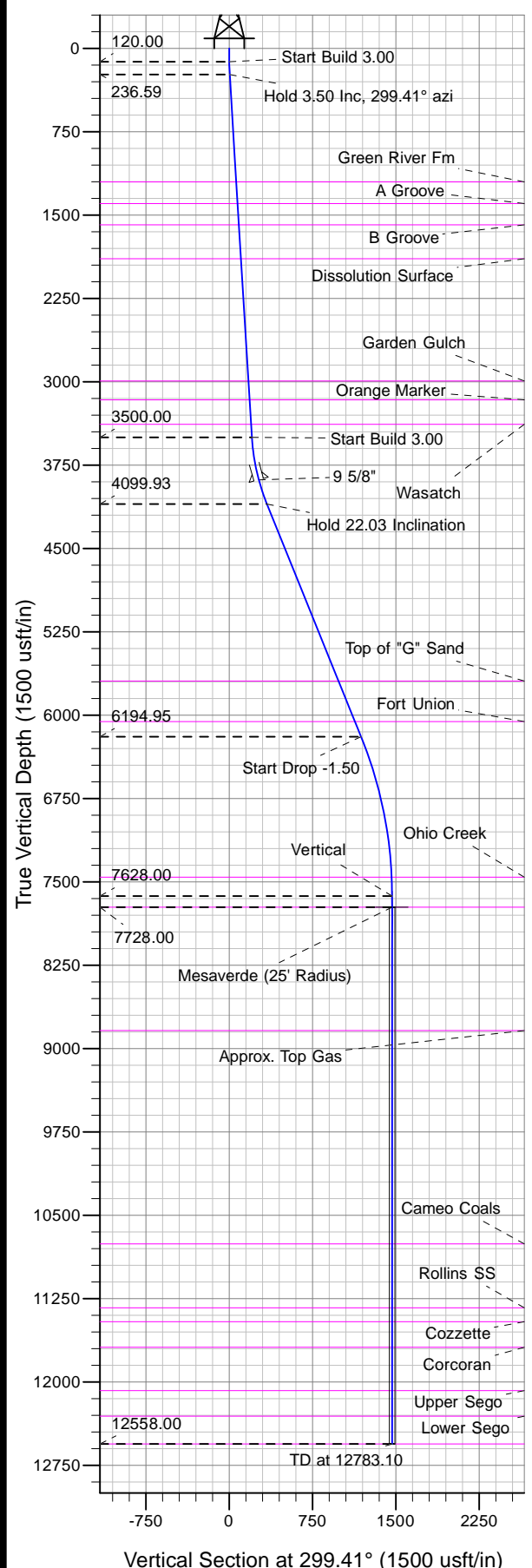




Well Name: RGU 433-23-198
 Surface Location: RGU 43-23-198 Pad
 North American Datum 1983 , US State Plane 1983, Colorado Central Zone
 Ground Elevation: 6567.00
 +N/-S 0.00 +E/-W 0.00 Northing 1781564.50 Easting 2199968.70 Latitude 39.94471 Longitude -108.35364 Slot B6
 KELLY BUSHING @ 6588.00usft (Cyclone 29 (21' RKB) kjs)



Project: RG 23-01S-098W
 Site: RGU 43-23-198 Pad
 Well: RGU 433-23-198
 Design #2 15Jan13 kjs

Azimuths to True North
 Magnetic North: 10.44°
 Magnetic Field
 Strength: 52337.5snT
 Dip Angle: 66.01°
 Date: 6/27/2012
 Model: IGRF2010

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Departure	Annotation
120.00	0.00	0.00	120.00	0.00	0.00	0.00	0.00	Start Build 3.00
236.67	3.50	299.41	236.59	1.75	-3.10	3.56	3.56	Hold 3.50 Inc, 299.41° azi
3506.17	3.50	299.41	3500.00	99.76	-176.98	203.16	203.16	Start Build 3.00
4124.00	22.03	299.41	4099.93	166.52	-295.40	339.10	339.10	Hold 22.03 Inclination
6384.11	22.03	299.41	6194.95	582.87	-1034.07	1187.03	1187.03	Start Drop -1.50
7853.10	0.00	0.00	7628.00	719.88	-1277.13	1466.04	1466.04	Vertical
7953.10	0.00	0.00	7728.00	719.88	-1277.13	1466.04	1466.04	Mesaverde
12783.10	0.00	0.00	12558.00	719.88	-1277.13	1466.04	1466.04	TD at 12783.10