

OWNER: Commonwealth of Virginia, Div. of Min. Resources VDMR #1118
Claytor Lake State Park - Well #3 WWCR #36
DRILLER: Sydnor Pump & Well Company, Inc. TOTAL DEPTH: 119'
COUNTY: Pulaski (Newbern)

GEOLOGIC LOG

Overburden (0-60')

- 0-10 Overburden — yellow-brown, coarse sand and gravel; white and ferruginous sandstones; minor mica; dark-gray limestone.
- 10-20 As above — less limestone.
- 20-30 Overburden — yellow-brown and gray, coarse-grained sand, gravel and sandstone; dark-gray coarse- and fine-grained, crystalline to dense dolomite, brecciated and recemented with dolomite, calcite, and quartz veins; light-gray, friable, porous limestone; minor brown and gray siltstones.
- 30-40 As above — with dark-gray shale layers (3/4 in. thick); abundant vein quartz.
- 40-50 As above — ferruginous concretions, shale is light-gray.
- 50-60 As above.
- Elbrook Formation (60-119')
- 60-70 Sandstone, Quartzite, Limestone — pale-brownish-yellow, and gray sandstones and quartzites; medium- to light-gray limestone; minor dark-gray dolomite and ferruginous shales. The carbonate rocks are brecciated and recemented with calcite and dolomite.
- 70-80 Argillaceous Limestone — very-light-gray; minor iron stain, very-fine-grained; very thin bedded; thin partings of slightly darker shale; abundant veins of calcite.
- 80-90 As above — vein quartz.
- 90-100 Sandy Shale — light-brown and gray, fine-grained, porous, calcareous; abundant calcite veins, minor medium-gray, dense limestone; iron staining.
- 100-110 As above.
- 110-119 Limestone and Sandstone — medium-dark-gray and yellow-brown, fine- and coarse-grained; abundant vein quartz; lesser dolomite and calcite; fragments of light-gray porous, friable limestone, and light-brown quartzite; trace mica schist; a few rounded quartz pebbles.

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GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-60	Overburden	Recent
60-119	Brecciated Zone in the Elbrook Formation	Cambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
January 7, 1965