

OWNER: Hillcrest Water Company, Inc.
(Otis M. Dyer - Well #2)

DRILLER: Buford N. Peters
COUNTY: Henry (Stanleytown)

VDMR #1331
WWCR #156
TOTAL DEPTH: 275'

GEOLOGIC LOG

- 0-60 No samples.
- Leatherwood Granite ? (60-275')
- 60-80 Gneiss — white, light-green, light-brown, black; coarse-grained; quartz oligoclase biotite, hornblende epidote, muscovite; minor zircon, apatite, calcite, actinolite, magnetite, and ferruginous clay.
- 80-100 Gneiss — white, pale-pink, light-gray, black; 0.1 to 10.0 mm; oligoclase, alkali feldspar, quartz, biotite, muscovite, hornblende, epidote; minor zircon, sphene, trace hypersthene.
- 100-120 As above — less oligoclase, more hornblende.
- 120-140 Gneiss — white, black, light-brown; 0.3 to 6.0 mm; oligoclase, quartz, biotite, epidote, muscovite, minor alkali feldspar, amphibole, magnetite, and pyrite.
- 140-160 Gneiss — white, cream, light-green, black; 0.6-6.0 mm; quartz, muscovite, epidote, plagioclase; minor apatite, alkali feldspar, sphene, and magnetite.
- 160-180 As above — slightly more alkali feldspar.
- 180-200 Hypersthene-Quartz Diorite Gneiss — white, black, brownish-pink; 0.2 to 4.0 mm; quartz, oligoclase-andesine, alkali-feldspar, hypersthene, biotite, magnetite, epidote; minor amphibole, trace pyrite.
- 200-220 As above — more biotite and andesine.
- 220-240 As above — less alkali feldspar, no brownish-pink.
- 240-260 As above — andesine more calcic; less epidote.
- 260-275 Gneiss — medium-light-bluish-gray; 0.3 to 5.0 mm; quartz, oligoclase, biotite, minor hypersthene hornblende, zircon, apatite, epidote, calcite, alkali feldspar.

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GEOLOGIC SUMMARY

These samples were too finely ground to determine their structure and may be better classed as granodiorites and quartz diorites.

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-60	No samples	
60-275	Leatherwood Granite ?	?

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
July 26, 1965