



OWNER: S. G. Whittle, III  
Carlisle Water Corporation #4  
DRILLER: Falwell Well Corporation (M. E. Sprinkle) TOTAL DEPTH: 250'  
COUNTY: Henry (Martinsville)

VDMR #1283  
WWCR #149

### GEOLOGIC LOG

- 0-10 Weathered Granite — pinkish-tan and white; coarse-grained, microcline, quartz, muscovite, oligoclase; minor hornblende, garnet, magnetite; trace zircon, chlorite; grain mount verification.
- 10-20 As above — crystals of microcline to 15 mm.
- 20-30 As above.
- 30-40 As above.
- 40-50 As above — minor biotite.
- 50-60 As above.
- 60-70 As above.
- 70-100 No samples.
- 100-110 Gneissic Granite — pale-pink and greenish-black; very-coarse-grained; microcline, oligoclase, quartz, chlorite; minor muscovite; trace magnetite and biotite.
- 110-120 No sample.
- 120-130 Quartz Monzonite — white, greenish-black, and pink; very-coarse-grained; quartz, microcline, albite, muscovite, chlorite, epidote, biotite; minor magnetite and pyrite.
- 130-140 As above.
- 140-150 No sample.
- 150-160 Granite — white, greenish-black, and pink; very-coarse-grained; quartz, microcline, oligoclase, chlorite, epidote, biotite, muscovite, magnetite; trace pyrite and apatite.
- 160-170 As above.
- 170-180 Gneissic Granite — pale-pink, white, black, and pale-green; very-coarse-grained; rounded phenocrysts of pink and white microcline and oligoclase in a sugary matrix of feldspar, quartz, biotite, hornblende, epidote, and minor pyrite; some of the matrix lacks the dark minerals and is composed of feldspar, chlorite, muscovite, quartz, epidote, and minor magnetite.



OWNER: S. G. Whittle, III - Carlisle Water Corporation #4 #1283

- 180-190 Gneissic Granite — pale-pink, white, black and pale-green; very-coarse-grained; rounded phenocrysts of pink and white microcline and oligoclase in a sugary matrix of feldspar, quartz, minor biotite and hornblende, epidote; some of the matrix lacks the dark minerals and is composed of feldspar, chlorite, muscovite, quartz, epidote, and minor magnetite.
- 190-200 As above.
- 200-210 As above.
- 210-220 No sample.
- 220-230 Gneissic Granite — abundant salmon-pink microcline (to 20 mm); matrix: medium-grained, quartz, plagioclase, chlorite, muscovite, magnetite; minor biotite.
- 230-240 No sample.
- 240-250 Quartz Monzonite — pinkish-gray; coarse-grained; plagioclase, microcline, quartz, muscovite, chlorite, biotite, epidote, trace magnetite.

GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

Leatherwood Granite

Cambrian ?

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
March 29, 1965