

OWNER: A. V. Fleming (Clifton Farms)
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Chesterfield

VDMR #1335
WWCR #149
TOTAL DEPTH: 200'

GEOLOGIC LOG

- 0-10 Overburden — light-brown, average grain size 1.5 mm, angular and irregular fragments quartz; mica, feldspar with clay.
- 10-20 As above.
- 20-30 Saprolitic Granite — pale-brown, pink and white; pink microcline to 10.0 mm, quartz 1.0 to 3.0 mm, mica (mostly weathered biotite) 1.0 to 3.0 mm; minor clay, iron oxide and epidote.
- 30-40 As above.
- 40-50 As above — microcline slightly coarser.
- 50-60 Weathered Granite — light-brown and gray, average grain size 1.0 mm; feldspar fragments to 3.0 mm (size to cuttings); alkali-feldspar and oligoclase, quartz, biotite; minor epidote; feldspar partly kaolinized; iron stain.
- 60-70 Granite — light-salmon-pink with gray and white; grain size 0.5 to 7.0 mm; microcline, plagioclase, quartz, biotite, minor epidote.
- 70-80 Granite — medium-gray, grain size 0.5 to 10.0 mm; microcline, albite, oligoclase, quartz, biotite; minor muscovite, apatite, clay, hornblende, chlorite, iron oxide on a fracture.
- 80-90 Granite — medium-light-gray, grain size 0.5 to 10.0 mm; microcline, albite, quartz, oligoclase, biotite; minor muscovite, clay; small portion slightly foliated.
- 90-100 As above — less biotite, no foliation.
- 100-110 Granite — medium-light-gray, slightly blue; very-coarse-grained; microcline, oligoclase, quartz, biotite; minor apatite, muscovite, epidote, and clay.
- 110-120 As above — more biotite; some of the microcline is pink.
- 120-130 Quartz Monzonite — medium-gray with minor pink; medium- to coarse-grained; slightly foliated in part; oligoclase, microcline, quartz, biotite, and minor epidote.
- 130-140 Granite — white, pink, black; coarse-grained; microcline, oligoclase, quartz, biotite; minor apatite, and epidote.
- 140-150 As above.

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- 150-160 Granite — white, pink, black; coarse-grained; microcline, oligoclase, quartz, biotite; minor apatite, and epidote.
- 160-170 As above — microcline is darker pink and more abundant .
- 170-180 As above — more microcline.
- 180-190 Granite — light-gray with pink, black, and white, very-coarse-grained; microcline (both gray and pink), albite-oligoclase, quartz, biotite, epidote, muscovite; minor pyrite.
- 190-200 As above — less gray, more pink and white.

GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

Petersburg Granite

Precambrian ?

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
August 2, 1965