

OWNER: Paul Markow, Florist, Well #1
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Henrico (Short Pump)

VDMR #1354
WWCR #179
TOTAL DEPTH: 500'

GEOLOGIC LOG

Overburden (0-20')

0-20 Granite Residuum — light-pinkish-brown; clay and saprolitic, coarse-grained granite; alkali-feldspar, quartz, and chlorite.

Petersburg Granite (20-50')

20-25 Granite — pink, gray, and white, coarse-grained; microcline, quartz, albite, chlorite, muscovite; minor apatite (finely ground by drill).

25-50 As above — with phenocrysts of feldspar to 10 mm. in length.

Sheared Petersburg Granite (50-500')

50-75 As above — with minor fractures filled with mylonitized feldspar and quartz.

75-100 As above — no fractures noted.

100-125 Granite — salmon-pink, pale-pink, light-gray and dark-gray; coarse-grained with feldspar phenocrysts to 20 mm. in length; alkali-feldspar, quartz, chlorite, sericite, minor apatite; numerous small fractures filled with mylonitized feldspar with tiny euhedral apatite. The salmon color is darkest in these fracture fillings.

125-150 As above — with minor pyrite, calcite, and oligoclase.

150-175 As above — with minor epidote.

175-200 Flaser Granite — salmon-pink and medium-dark-gray; very-fine- to very-coarse-grained; occasional complete phenocrysts of alkali-feldspar; microcline, quartz, chlorite, and oligoclase; minor small veins of calcite; trace of pyrite.

200-225 As above.

234 As above — with more calcite veinlets.

225-250 As above.

250-275 As above.

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- 275-300 Flaser Granite — salmon-pink and medium-dark-gray; very-fine- to very-coarse-grained; occasional complete phenocrysts of alkali-feldspar; microcline, quartz, chlorite, and oligoclase; veins with two stages of euhedral quartz growth, and subsequent deposition of calcite with a trace of pyrite.
- 300-325 As above.
- 325-350 Flaser Granite — salmon-pink and medium-dark-gray; very-fine to very-coarse-grained; alkali-feldspar, quartz, and chlorite.
- 350-375 As above — with trace of pyrite.
- 375-400 As above.
- 400-425 As above.
- 425-450 No sample.
- 450-500 Flaser Granite Porphyry — salmon-pink and medium-dark-gray, very-fine- to very-coarse-grained, phenocrysts to a length of 15 mm.; alkali-feldspar, oligoclase, quartz, chlorite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-20	Overburden	Recent
20-50	Petersburg Granite	Precambrian (?)
50-500	Sheared Petersburg Granite	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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