

OWNER: Dinwiddie County School Board
(West Petersburg Elementary School)
DRILLER: Mitchell Well & Pump Company
COUNTY: Dinwiddie (Burgess)

VDMR #1507
WWCR #25
TOTAL DEPTH: 108'

GEOLOGIC LOG

Tertiary Undivided (0-30')

0-10 Sand — pale orange argillaceous; fine to medium grained, fairly well sorted, angular to subangular; larger fragments of sandstone or quartzite; slightly feldspathic.

10-20 Sand and Gravel — gray; scattered, large rounded pebbles and abundant smaller pebbles and granules (total about 40% of sediment) of quartz, microcline granite, and arkosic sandstone; sand (about 60% of sediment) is fine to very coarse grained, poorly sorted, angular to rounded; very arkosic; small amounts kyanite and brown epidote; smaller amounts of tourmaline, muscovite, pink garnet, green epidote, and carbonaceous material.

Note: Much of sand size material appears to be crushed gravel.

20-30 Sand — buff; fine to medium grained, well sorted, angular; moderately arkosic; small amounts muscovite, green and brown epidote, magnetite.

Petersburg Granite (30-108')

30-40 Granite — very pale-orange-pink, probably extremely coarse grained (was crushed by drill to 1 mm size fragments); microcline, quartz, muscovite, oligoclase, minor epidote, chlorite, magnetite, trace calcite and iron oxide stain.

40-50 "

50-60 "

60-70 "

70-80 "

80-90 Granite and Basic Intrusive — light-gray to pale-pink, very coarse (over 4 mm) grained granite with microcline, quartz, chlorite and trace calcite and magnetite; medium-dark-blue-gray, fine-grained basic intrusive rock; labrodorite, hydrobiotite epidote and magnetite.

OWNER: Dinwiddie Co. School Bd. (West Petersburg Elementary School)

90-100 Granite — pale-pink and white minor black probably very coarse grained (crushed by drill to less than 2 mm fragment size); microcline quartz, chlorite and magnetite; minor iron oxide stain; trace basic intrusive rock.

100-108 Basic Intrusive and Granite — dark-gray, fine-grained basic intrusive material with hydrobiotite, labradorite and minor epidote, apatite and sphene; pale-pink and white granite, microcline, quartz chlorite magnetite calcite and biotite; minor iron oxide stain (sample crushed to less than 1 mm by drill).

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-30	Undivided	Tertiary
30-108	Petersburg Granite with Basic Intrusions at 80-90 and 100-108'	Uncertain

Virginia Division of Mineral Resources
Robert H. Teifke and Hollis N. Walker, Geologists
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