

OWNER: B. S. Pribble
DRILLER: J. T. Ellington
COUNTY: Stafford (Falmouth)

VDMR #1141
WWCR #54
TOTAL DEPTH: 207'

GEOLOGIC LOG

Overburden

0-75 Overburden - light medium gray, coarse grained, appears to be weathered biotite granite, quartz, feldspar, biotite, clay, magnetite, trace of pyrite.

75-90 No sample.

90-105 Overburden - light medium gray, coarse grained, appears to be weathered biotite granite, quartz, feldspar, biotite, clay, magnetite, trace of pyrite.

Petersburg Granite

105-120 Plagioclase-Biotite Gneiss - light gray with cream alteration areas, coarse grained, foliated, feldspar (crystals very large), quartz, biotite, clay, minor amphibole, and magnetite.

120-135 Plagioclase-Biotite Gneiss - light gray, coarse grained foliated, as above but less alteration, X-ray analysis: 40% plagioclase, 20% potash feldspar, 25% quartz, 10% biotite. Also observed were minor amphibole & magnetite.

135-150 Plagioclase-Biotite Gneiss - light gray with pale pink areas, coarse grained, potash feldspar still coarser, definite lineation of mica, potash and plagioclase feldspar, quartz, biotite, minor amphibole, and magnetite, trace of pyrite.

150-165 Biotite Gneiss - medium gray, coarse grained lineation of micas, plagioclase and potash feldspar, quartz, biotite, minor muscovite and amphibole, small amount of clay and other alteration products.

165-180 As above.

180-195 Plagioclase Gneiss - medium gray, with pink areas, very coarse grained, lineation of micas, X-ray analysis: 40% plagioclase, 30% quartz, 20% potash feldspar, and 8% biotite, minor muscovite and pyrite observed. The amphibole that has occurred throughout was slight more abundant here, examination showed it to be the sodium rich variety riebeckite.

OWNER: B. S. Pribble (Continued)

#1141

195-207

Feldspar Gneiss - pale pink, very coarse grained except for mica, plagioclase and potash feldspar, muscovite, biotite, garnet.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-105	Overburden	Quaternary
105-207	Petersburg Granite	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
September 28, 1964