

OWNER: Jinks McDaniel
DRILLER: C. R. Moore
COUNTY: Albemarle (Earlsville)

VDMR #836
WWCR #866
TOTAL DEPTH: 278'

GEOLOGIC LOG

0-40 No samples.

Robertson River Formation (40-278')

- 40 Granite — very-light-gray, coarse-grained, some feldspar crystals (very large, phenocrysts), alkali feldspar, plagioclase, feldspar, quartz, hornblende (mostly altered to biotite), minor magnetite.
- 50 As above — petrographic examination: perthitic microcline feldspar major constituent, acid plagioclase, quartz, hornblende, biotite and opagues. (Trace pyrite noted) X-ray examination: large amount of albite included in the alkali feldspar estimated amounts of minerals percent: 40% plagioclase, 25% potash feldspar, 25% quartz, 10% biotite.
- 60 As above — trace fluorite.
- 70 As above — trace zircon.
- 80 As above.
- 90 Granite — light-gray, coarse-grained, large feldspar crystals, alkali feldspar, plagioclase, quartz, more biotite and hornblende than above, minor zircon and magnetite.
- 100 As above.
- 110 As above — minor pyrite and fluorite noted.
- 120 As above.
- 130 Granite — medium-light-gray, coarse-grained, very large feldspar crystals (up to 13 mm); alkali feldspar, plagioclase, quartz, biotite, hornblende.
- 140 As above.
- 150 As above.
- 160 As above — trace of zircon.
- 170 Granite — medium-light-gray, coarse-grained; alkali feldspar, plagioclase, quartz, biotite, hornblende.
- 180 As above.

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- 190 Granite — medium-light-gray, coarse-grained; feldspar crystals not so large as mentioned above, alkali feldspar, plagioclase, sericite, biotite, hornblende, minor, pyrite, zircon, and fluorite.
- 200 As above — with magnetite.
- 210 Granite — light-gray, slightly buff, coarse-grained, some very large feldspar crystals; alkali feldspar, plagioclase, quartz, hornblende greater than biotite.
- 220 Granite — medium-light-gray, coarse-grained; alkali-feldspar, plagioclase, quartz, sericite, hornblende, and biotite.
- 230 As above — less sericite.
- 240 As above — more sericite, (X-ray examination: 1/3 plagioclase, 1/4 potash feldspar, 1/4 quartz, 1/8 biotite and hornblende combined).
- 250 Granite — medium-gray with cream areas, coarse-grained, alkali feldspar, plagioclase feldspar, quartz, hornblende (not as altered as above), biotite, minor pyrite.
- 260 As above.
- 270 As above.
- 278 Granite — medium-light-gray, coarse-grained, alkali feldspar, plagioclase, quartz, sericite, hornblende, and biotite.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-40	No samples	
40-278	Robertson River Formation	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
October 14, 1964