

OWNER: Monticello National Bank
(Virginia Land Company)
DRILLER: Leazer Pump and Well Co., Inc.
COUNTY: Albemarle (Charlottesville)

VDMR #1447
WWCR #970
TOTAL DEPTH: 127'

GEOLOGIC LOG

Rhyolite Dike (0-20')

- 0-10 Weathered Rhyolite Porphyry — pale-orange to pink, euhedral crystals of alkali feldspar (1-5 mm) in a very fine-grained porous matrix; many of the phenocrysts are broken; minor medium gray, fine-grained mica schist.
- 10-20 As above — more pink, larger phenocrysts.

Lynchburg Formation (20-127')

- 20-30 Weathered Gneiss — orange-brown to medium-gray, average grain size 0.75 mm; quartz, biotite, muscovite, feldspar; one-third pale pink rhyolite as above; trace light-gray sericite schist.
- 30-40 Gneiss — light-tannish-gray to medium-gray; average grain size 0.3 mm; quartz, biotite, muscovite, feldspar; minor calcite, clay, trace garnet; trace weathered rhyolite from above.
- 40-50 As above — trace sericitic schist; trace pyrite.
- 50-60 Gneiss — medium-light-tannish-gray to medium-gray; average grain size 0.3 mm; quartz, biotite, muscovite, feldspar; trace pyrite; minor laminae of fine-grained medium-gray sericite schist with minor iron-oxide stain.
- 60-70 Sericite Schist and Gneiss — light-gray to medium-gray, grain size; very fine to 0.5 mm; banded; sericite, quartz, biotite; minor graphite, feldspar, calcite; trace pyrite.
- 70-80 As above — minor varve-like laminae of alternating light and dark-gray sericite schist; minor slickensides.
- 80-90 As above — gneissic portion slightly coarser grained.
- 90-100 As above.
- 100-110 As above — less gneissic material, more sericite schist.
- 110-120 As above — more gneissic material.
- 120-127 As above.

OWNER: Monticello National Bank (Virginia Land Company)

#1447

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-20	Rhyolite Dike	(Triassic ?)
20-127	Lynchburg Gneiss	Precambrian

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
January 11, 1966