

OWNER: C. L. Morris
DRILLER: C. R. Moore
COUNTY: Albemarle (Charlottesville)

VDMR #892
WWCR #888
TOTAL DEPTH: 230'

GEOLOGIC LOG

Lovington Formation (0-130')

- 0-10 Gneiss — light-medium-gray, coarse-grained, some feldspar crystals (to 10 mm), quartz, plagioclase, biotite, and muscovite in equal amounts; minor amounts epidote and magnetite, veins of quartz.
- 10-20 As above.
- 20-30 Gneiss — light-medium-gray, coarse-grained feldspar crystals (to 10 mm long) with rounded grains of sand in them; (X-ray examination: quartz and plagioclase present in equal amounts (approximately 25% each); biotite and muscovite also equal (approximately 20% each); minor amounts of pyrite.
- 30-40 As above.
- 40-50 As above.
- 50-60 As above.
- 60-70 Gneiss — light-medium-gray, coarse-grained, feldspar crystals (up to 10 mm), quartz, plagioclase, biotite and muscovite in almost equal amounts; minor epidote.
- 70-80 As above — with vein quartz.
- 80-90 As above — with pyrite.
- 90-100 Biotite Gneiss — medium-gray, coarse-grained, like above material with the addition of equal amounts of medium-grained, dark-gray biotite schist containing biotite, quartz, and pyroxene.
- 100-110 Gneiss — light-medium-gray, coarse-grained, large feldspar crystals, quartz, plagioclase, biotite, and muscovite.
- 110-120 As above.
- 120-130 As above — with rounded sand and quartzite pebbles to 6 mm long.

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Metamorphosed Dike (130-220')

- 130-140 Biotite Schist — medium-gray, foliated, medium- to coarse-grained, biotite, quartz, plagioclase, muscovite, pyroxene, and minor amounts hornblende, sphene, zoisite, calcite, and pyrite.
- 140-150 As above.
- 150-160 Biotite-Pyroxene Schist — dark-greenish-gray, fine- to medium-grained, less foliation than above, biotite, pyroxene, amphibole, epidote, quartz, and muscovite; minor calcite.
- 160-170 Biotite-Pyroxene Schist — as above; (X-ray examination: major amounts of biotite, pyroxene, and lesser amphibole, and quartz.
- 170-180 As above — with a layer of quartzite.
- 180-190 As above — with epidote, but no quartzite.
- 190-200 As above — with a major quartz vein containing a minor amount of large plagioclase crystals, small amount of quartz-biotite schist.
- 200-210 Gneiss — light-gray, coarse-grained, quartz, feldspar, biotite; Biotite Schist — dark-gray, biotite, pyroxene, amphibole, and quartz; Quartz Vein — white, coarse-grained, quartz.
- 210-220 Biotite-Pyroxene Schist — black with light-gray, medium-grained to fine-grained, the light material is coarse-grained; biotite, pyroxene, epidote, amphibole, lesser amounts quartz and plagioclase.
- 220-230 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-130	Lovingston Formation	Precambrian
130-220	Metamorphosed Dike	Precambrian ?
220-230	No sample	

Virginia Division of Mineral Resources
 Hollis N. Walker, Geologist
 October 20, 1964