

OWNER: Easthampton Rubber Thread Co. - Well #4
DRILLER: Southern Drilling Company
COUNTY: Patrick (Stuart)

VDMR #1328
WWCR #80
TOTAL DEPTH: 300'

GEOLOGIC LOG

- 0-6 No sample.
- Hornblende and Biotite Gneiss (6-300')
- 6 Overburden — gneiss fragments, medium-gray to light-brown, grain size 0.3 to 1.0 mm with larger phenocrysts; quartz, mica, feldspar, staurolite, hornblende, garnet and iron oxides.
- 8 As above — more garnet.
- 11 As above — more hornblende.
- 17 As above — less hornblende.
- 52 Gneiss (weathered) — brownish-medium-gray, grain size 0.3 - 1.0 mm; biotite, muscovite, quartz, alkali feldspar, oligoclase, epidote; minor calcite, apatite, garnet, zircon, sphene, chlorite, magnetite; iron oxide stain.
- 62 As above — less weathered.
- 88 As above.
- 102 Gneiss — medium-gray, grain size 0.3 to 1.0 mm; muscovite, biotite, quartz, oligoclase, alkali feldspar; minor epidote, apatite; trace zircon amphibole pyrrhotite.
- 115 Hornblende Gneiss — medium-gray, grain size 0.3 to 1.0 mm, hornblende, quartz, plagioclase, alkali feldspar, epidote; minor biotite.
- 130 As above.
- 140 Biotite Gneiss — medium-light-brownish-gray, (ground by drill to fine-sand-size fragments), biotite, quartz, feldspar, muscovite; minor magnetite.
- 155 Hornblende Gneiss — medium-gray, grain-size 0.2 to 1.0 mm; hornblende, biotite, quartz, albite, muscovite, epidote; minor pyrite and calcite; trace apatite, garnet.
- 163 Leucocratic Lens — cream to white, very-coarse-grained; quartz, muscovite, albite, alkali feldspar, oligoclase, minor biotite, hornblende, calcite, apatite, and garnet.

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- 169 Biotite Gneiss — medium-gray, average grain size 0.5 mm; biotite, muscovite, feldspar, quartz; minor hornblende and magnetite.
- 190 As above — less biotite.
- 205 As above.
- 250 As above.
- 300 As above — iron stained.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-6	No sample	
6-300	Hornblende and Biotite Gneiss	Questionable

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
July 16, 1965