



OWNER: Easthampton Rubber Thread Co., Well #1  
DRILLER: Southern Drilling Company  
COUNTY: Patrick (Stuart)

VDMR #1326  
WWCR #77  
TOTAL DEPTH: 175'

GEOLOGIC LOG

- 0-5 Overburden — medium- to light-brown and gray gneiss; coarse- to medium-grained gneiss; quartz, biotite, muscovite, alkali feldspar; minor oligoclase, apatite, epidote, garnet, andalusite, staurolite, clay and iron oxide; vein quartz; rounded fragments and sand.
- 5-21 As above — minor amphibole and magnetite.
- 21-30 As above.
- 30-35 As above — minor ilmenite and chlorite, after garnet.
- 35-46 Weathered Gneiss (probably a large boulder) — medium-gray and light-brown, coarse-grained; quartz, microcline, biotite, muscovite, minor albite, staurolite, andalusite, hornblende, garnet, chlorite, ilmenite, and magnetite.
- 46-50 Saprolitic Gneiss — as above with rounded fragments.
- 50-75 Gneiss — light-gray, average grain size 0.1 to 1.0 mm, occasional mica and feldspar to 2.0 mm; quartz, biotite, muscovite, alkali feldspar; minor epidote, albite, sphene, hornblende; scattered iron stain.
- 75-100 As above — minor pyrite.
- 100-114 As above — more iron stain.
- 114-125 As above — less iron stain.
- 125-161 Gneiss — medium-gray, average grain size 0.1 to 1.0 mm, occasional biotite grains to 4.0 mm and patches of feldspar to 10.0 mm; quartz, biotite, feldspar, muscovite, minor garnet, and pyrite.
- 161-164 As above — with iron stain.
- 164-167 As above.
- 167-175 As above — slightly calcareous.

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GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

Quartz-Mica Gneiss

Questionable

Virginia Division of Mineral Resources  
Hollis N. Walker, Geologist  
July 13, 1965