

OWNER: J. T. Smook (Kosmo Village)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Hanover (Elmont)

VDMR: 1695
WWCR: 96
TOTAL DEPTH : 250'

GEOLOGIC LOG

Depth in feet

0-10 Granite - tan to light-gray, slightly weathered and iron-stained; medium to fine-grained, holocrystalline; feldspar, quartz and biotite

10-20 "

20-30 No Sample

30-40 Biotite-granite - pinkish-gray, medium to fine-grained, holocrystalline; feldspar (white with some pink), quartz and biotite

40-50 No Sample

50-60 Biotite-granite - pinkish-gray, medium to fine-grained, holocrystalline; feldspar (white and pink), quartz and biotite

60-70 "

70-80 Biotite-granite - pinkish-gray, medium to fine-grained, holocrystalline; feldspar (white and pink), quartz, and biotite

80-90 "

90-100 " only trace of pink feldspar

100-110 Gneissic-granite - gray, medium to fine-grained, foliated, holocrystalline; feldspar, quartz, biotite, and trace of hornblende

110-120 "

120-130 Biotite granite - pinkish-gray, medium-grained, holocrystalline; feldspar (pink and white), quartz and biotite

130-140 Gneissic-granite - gray to slightly pinkish-gray, medium-grained, holocrystalline; slightly foliated to foliated; feldspar (white with minor amounts of pink), quartz, biotite, and trace of hornblende

140-150 "

150-160 "

Yell. Tan quad.

elev ¹⁸⁰ ~~2~~ stopo

| | |
|---------|---|
| 160-170 | Gneissic-granite - gray to slightly pinkish-gray, medium-grained, holocrystalline; slightly foliated to foliated; feldspar (white with minor amounts of pink), quartz, biotite, and trace of hornblende |
| 170-180 | " slightly more pink feldspar; less foliated |
| 180-190 | " " |
| 190-200 | " " |
| 200-220 | No Samples |
| 220-230 | Biotite gneiss - pinkish-gray, medium-grained, holocrystalline; feldspar (white and pink), quartz and biotite |
| 230-240 | " |
| 240-250 | No Sample |

GEOLOGIC SUMMARY

| | <u>Rock Unit</u> | <u>Age</u> |
|----------|--------------------|------------|
| 0-20' | Saprolite | |
| 20-240' | Petersburg Granite | Paleozoic |
| 240-250' | No Sample | |

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
December 14, 1967