

OWNER: Manakin Farms, Inc.
Manakin Farms Subdivision #4
DRILLER: Matthews Well Drilling
COUNTY: Goochland (Manakin)

VDMR #1285
WWCR #43
TOTAL DEPTH: 190'

GEOLOGIC LOG

- 0-35 No sample.
- Overburden (35-75')
- 35-75 Overburden — tan, coarse- to fine-grained; quartz, feldspar, clay, minor muscovite, and chlorite.
- Petersburg Granite (75-190')
- 75-85 Pegmatitic Granite — cream-colored, very-coarse-grained (1.5 to 5.0 mm); quartz, potash feldspar and plagioclase.
- 85-100 Granite — pink to light-gray; very-coarse-grained; potash feldspar, quartz, plagioclase, minor chlorite, muscovite, pyrite; trace apatite, and epidote; grain mount verification.
- 100-110 As above — oxidized and altered to light-pinkish brown, with clays (see note below).
- 110-120 As above — no alteration or clay.
- 120-135 As above — a mixture of fresh granite and altered granite (see note below).
- 135-145 As above — no clays or altered material; with organic contamination.
- 145-160 Granite — light-gray, coarse-grained; quartz, feldspar; minor muscovite, chlorite; trace epidote, and pyrite; with organic contamination such as pine needles, leaves and charcoal.
- 160-170 Granite — light-pink, coarse-grained; potash feldspar, quartz, plagioclase; minor chlorite, muscovite; trace epidote, and pyrite.
- 170-180 As above — slightly more chlorite.
- 180-190 As above.

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GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-35	No sample	
35-75	Overburden	Recent
75-190	Petersburg Granite	Cambrian ?

Note: It is suspected that levels 100-110 and 120-135 were mislabeled and may be from higher in the well.

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
April 2, 1965