

OWNER: Buckingham Co. School Board (Gold Hill #3)
DRILLER: Falwell Well Corporation
COUNTY: Buckingham

VDMR #912
WWCR 115
TOTAL DEPTH: 250'

GEOLOGIC LOG

Overburden (0-80')

- 0-10 Overburden — light orange-brown, fine grained; clay sericite, vermiculite, quartz.
- 10-20 Overburden — light reddish brown, fine grained; clay, sericite, quartz.
- 20-30 As above.
- 30-40 Overburden — light olive-brown, fine grained; clay, sericite, quartz.
- 40-50 Overburden — light orange-brown, fine grained; clay, sericite, quartz.
- 50-60 Overburden — light reddish brown, fine grained; clay, sericite, quartz. (X-ray analysis: Quartz 30%, muscovite 25%, biotite 10%, kaolinite 20%, chlorite 10%, dolomite 5%).
- 60-70 As above.
- 70-80 Overburden — light olive-brown, fine grained; clay, sericite, quartz.

Arvonian Formation (?) (80-140')

- 80-90 Schist — greenish gray, fine to medium grained; quartz, feldspar, chlorite, sericite.
- 90-100 As above.
- 100-110 Schist — light olive-brown, fine grained; sericite, quartz, clay, weathered zone.
- 110-120 Schist — greenish gray, fine to medium grained; quartz, feldspar, chlorite, sericite.
- 120-130 Slate — gray, fine grained; quartz, sericite, feldspar, chlorite, traces of graphite pigment. (By petrographic examination).

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130-140 Slate — gray, fine grained; quartz, sericite, feldspar, chlorite, traces of graphite pigment. (By petrographic examination).

140-250 No sample.

GEOLOGIC SUMMARY

| | <u>ROCK UNIT</u> | <u>AGE</u> |
|---------|------------------------|------------|
| 0-80 | Overburden | Recent |
| 30-140 | Arvonnia Formation (?) | Ordovician |
| 140-250 | No sample | |

Virginia Division of Mineral Resources
Villard S. Griffin, Jr., Geologist
July 29, 1964