

OWNER: Buckingham Co. School Board (Gold Hill #4)
DRILLER: Falwell Well Corp. (J. L. Eagle)
COUNTY: Buckingham

VDMR #913
WWCR #112
TOTAL DEPTH: 195'

GEOLOGIC LOG

Overburden (0-10')

0-10 Clay — reddish brown, fine grained; hematite, micaceous minerals, quartz, feldspar, traces of epidote, (By petrographic examination).

Arvonian Formation (10-140') ?

10-20 Schist (weathered) — light olive-brown, fine grained; clay, sericite, quartz, with traces of iron stains. (X-ray analysis: Muscovite 35%, quartz 30%, kaolinite 15%, montmorillonite 20%).

20-30 As above.

30-40 As above.

40-50 As above.

50-60 Slate — black, fine grained; quartz, sericite, feldspar, graphite pigment, and traces of biotite (By petrographic examination), (X-ray analysis: Plagioclase 10%, Quartz 35%, chlorite 15%, muscovite 40%).

60-70 As above.

70-80 As above.

80-90 As above.

90-100 Schist (Overburden) — light olive-brown, fine grained; sericite and clay minerals, quartz, (X-ray analysis: Quartz 50%, muscovite 20%, kaolinite 30%).

100-110 Slate — dark gray, medium grained; quartz, sericite, chlorite, biotite, minor graphite, with vein quartz, (X-ray analysis: Quartz 40%, plagioclase 15%, muscovite 10%, biotite 20%, chlorite 15%).

110-120 As above.

120-130 No sample.

130-140 Slate — dark gray, medium grained; quartz, sericite, chlorite, biotite, minor graphite, vein quartz.

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#913

140-195

No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-10	Overburden	Recent
10-140	Arvonnia Formation (?)	Ordovician
140-195	No sample	

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