

OWNER: U. S. Corps of Engineers
(Bowens Creek, Location #2)
DRILLER: C. C. Powell & Sons, Inc.
COUNTY: Henry

VDMR: 1931
WWCR: 182
TOTAL DEPTH: 84

GEOLOGIC LOG

Depth in feet

- 0-10 Overburden - soil, light brown; with iron-stained clay, traces of very fine-grained (0.1 mm) mica (bleached, white biotite) and sericite (?); iron-oxides (limonite) are predominantly brown, but a slight, reddish-brown cast to some freshly-broken lumps indicated some ferric iron; trace of quartz
- 10-20 Overburden - soil, very-light brown; with coarser and more abundant, decomposed biotite, clay and traces of quartz
- 20-30 " with a few fragments of decomposed amphibolite
- 30-40 "
- 40-50 Overburden - soil and saprolite is grayish-brown to moderately-yellowish brown; clay is decomposed biotite and abundant soft fragments of decomposed amphibolite
- 50-60 Amphibolite - blackish-green, fine-grained, weathered mafic gneiss with glistening, altered, fine-grained (0.1-0.3 mm), bronzy, decomposed biotite oriented along planes of gneissosity; some crumbly broken surfaces show fine-grained, fresh, black, amphibole needles and grayish-white (0.2-1 mm) plagioclase; small-scale, pygmatic folding with alternating mafic and quartzo-feldspathic (1 mm) bands on one fragment
- 60-70 Amphibolite with Vein Quartz - greenish-gray, almost aphanitic, mafic gneiss containing black hornblende needles and plagioclase (approximately 1:1), grain size from less than 0.1 mm x 0.2 up to 0.2 x 1 mm; vein quartz contains limonite, jasper, and minutely-crystallized (0.1 mm) pyrite
- 70-84 No samples

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
0-45 Overburden	
45-70 Lynchburg Formation: amphibolitic gneiss with minor vein quartz	Precambrian
70-84 No Samples	

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Virginia Division of Mineral Resources
Richard S. Good, Geologist
September 6, 1967