

OWNER: U. S. Corps of Engineers
(Rudd's Creek Well #4)
DRILLER: C. C. Powell & Sons, Inc.
COUNTY: Mecklenberg

VDMR: 1930
WWCR: 70
TOTAL DEPTH: 250

GEOLOGIC LOG

Depth in feet

SAPROLITIC GREENSTONE (0-20[±])

0-10 Greenstone - weathered, pale greenish-gray; lustrous, aphanitic to very fine-grained, with pale-brown limonitic stains and minute disseminated (less than 0.05 mm), black magnetite and hematite grains (1-2%); chlorite, sericite, plagioclase and quartz

10-20 Greenstone - greenish-gray; aphanitic and schistose; with disseminated calcite along cleavage and schistosity; disseminated (0.1 mm) magnetite and specular hematite in trace amounts

VIRGILINA-TYPE GREENSTONE (20-250[±])

20-30

"

30-40

"

40-60

No samples

60-70

Greenstone - greenish-gray; aphanitic and schistose; with disseminated calcite along cleavage and schistosity; disseminated (0.1 mm) magnetite and specular hematite in trace amounts

70-80

No sample

80-90

Greenstone - greenish-gray; aphanitic and schistose; with disseminated calcite along cleavage and schistosity; disseminated (0.1 mm) magnetite and specular hematite in trace amounts

90-100

"

with epidote, quartz and specular hematite

100-110

"

110-120

"

120-130

"

130-150

No samples

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#1930

- 150-160 Greenstone - greenish-gray; aphanitic and schistose; with disseminated calcite along cleavage and schistosity; disseminated (0.1 mm) magnetite and specular hematite in trace amounts
- 160-200 No samples
- 200-210 Greenstone - greenish-gray; aphanitic and schistose; with disseminated calcite along cleavage and schistosity; disseminated (0.1 mm) magnetite and specular hematite in trace amounts; with epidote, quartz and specular hematite
- 210-250 No samples

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-20	Saprolitic Greenstone	
*20-250	Virgilina-Type Greenstone: propylitized meta- andesitic tuff	Cambrian (?)

* No samples from 40-60, 70-80, 130-150, 160-200, 210-250†

Virginia Division of Mineral Resources
Richard S. Good, Geologist
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