

OWNER: L. W. Bowers (Oakbower Motel)
DRILLER: C. R. Moore
COUNTY: Augusta (Waynesboro)

VDMR #1165
WWCR #320
TOTAL DEPTH: 155'

GEOLOGIC LOG

- 0-40 No sample.
- Catoctin Formation (40-150')
- 40-50 Sandstone — medium-pinkish-gray, coarse-grained, (up to 3 mm, average 1 mm), quartz, quartzite, rock fragments, feldspar; poorly sorted, subangular, chlorite, sericite cement.
- 50-60 Greenstone and Sandstone — medium-dark-gray, very-fine-grained, iron stained on fractures; platy minerals lineated. (X-ray examination: muscovite, chlorite, minor pyroxene, and epidote); very minor magnetite; (some of above sandstone fragments here).
- 60-70 As above — no sandstone - slightly green.
- 70-80 As above — no iron staining.
- 80-90 As above — slight iron stains, less foliation.
- 90-100 Greenstone — medium-dark-greenish-gray, very-fine-grained, chlorite, muscovite, magnetite; round iron-stained spots on fractures.
- 100-110 Greenstone — medium-blue-gray, very-fine-grained, chlorite, muscovite, epidote, magnetite; (X-ray examination: above plus plagioclase, minor amphibole and pyroxene)
- 110-120 As above — with a buff layer rich in quartz and biotite.
- 120-130 Greenstone — medium-greenish-gray, very-fine-grained, chlorite, muscovite, magnetite, plagioclase; a few fragments of metamorphosed basalt (see below).
- 123-125 Greenstone — very-dark-gray, mottled green and purple, very-fine-grained, quartz, and epidote veins and amygdules, chlorite veins, jasper, magnetite, ilmenite, stilpnomelane. (X-ray examination: above minerals plus plagioclase and actinolite). About one-half the sample was pieces of above mentioned shale.
- 130-140 Greenstone — medium-gray-green, very-fine-grained, foliated, chlorite, muscovite, magnetite, plagioclase, minor epidote, and quartz.

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140-150 Greenstone — medium-gray-green, very-fine-grained, foliated, chlorite, muscovite, magnetite, plagioclase, minor epidote, and quartz.

150-155 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-40	No sample	
40-150	Catoctin Formation	Precambrian or Cambrian
150-155	No sample	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
November 9, 1964