

OWNER: CAMP WAMAVA #2  
DRILLER: Sydnor Pump & Well Co., Inc.  
COUNTY: Warren

VDMR #924  
WWCR #55  
TOTAL DEPTH:258'

GEOLOGIC LOG

Overburden (0-50')

- 0-5 Overburden — gray chlorite schist; quartz, biotite, chlorite, red shale and gravel.
- 5-10 As above — some vein quartz.
- 10-15 Overburden — chlorite or biotite schist; very-fine-grained; (X-ray analysis, 28% biotite, 22% quartz, 17% plagioclase, 13% potassic feldspar, 15% clay, 5% chlorite, graphite ?).
- 15-20 Overburden — black to tan, as above with more quartz.
- 20-25 As above — talc ?
- 25-30 As above.
- 30-35 As above.
- 35-40 As above — less weathering.
- 40-45 As above — with more quartz.
- 45-50 As above — with red shale.

Catoctin Formation (50-245')

- 50-55 Greenstone — greenish-blue, fine-grained, chlorite, biotite, quartz, plagioclase, minor epidote, and calcite, small fracture zone.
- 55-60 As above.
- 60-65 As above — still has fracture zone.
- 65-70 As above — but no fracture.
- 70-75 As above — more jasper and epidote.
- 75-80 As above — with less epidote and some garnet.

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- 80-85 Greenstone — greenish-blue, fine-grained, chlorite, biotite, quartz, plagioclase; minor epidote, and calcite.
- 85-90 As above — with less quartz and more jasper.
- 90-95 As above — with more quartz.
- 95-100 As above — with less jasper.
- 100-105 As above — with pyrite.
- 105-110 Greenstone — greenish-blue, fine-grained, chlorite, biotite, quartz, plagioclase; minor epidote, and calcite.
- 110-115 As above.
- 115-120 As above — but no garnet, less quartz and more epidote.
- 120-125 As above — with more jasper.
- 125-130 Greenstone — greenish-blue, fine-grained, potassic feldspar, quartz, biotite, chlorite, plagioclase, and epidote.
- 130-135 As above.
- 135-140 As above — less quartz, epidote, and potassic feldspar.
- 140-145 As above — more quartz, epidote, and potassic feldspar.
- 145-150 As above.
- 150-155 As above — less epidote.
- 155-160 Greenstone — greenish-blue, fine-grained, potassic feldspar, quartz, biotite, chlorite, plagioclase, and epidote.
- 160-165 As above — with pyrite.
- 165-170 As above — more epidote.
- 170-175 As above.
- 175-180 As above.
- 180-185 As above — fracture zone.
- 185-190 As above — no fracturing.

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- 190-195 Greenstone — greenish-blue, fine-grained, potassic feldspar, quartz, biotite, chlorite, plagioclase, and epidote.
- 195-200 As above — more pyrite, less epidote.
- 200-205 As above — with good fracture zone.
- 205-210 As above.
- 210-215 As above — with no fracturing.
- 215-220 As above — with more quartz and plagioclase.
- 220-225 Greenstone — greenish-blue, fine-grained, potassic feldspar, quartz, biotite, chlorite, plagioclase, and epidote.
- 225-230 As above — but less quartz and plagioclase.
- 230-235 As above.
- 235-240 As above — with more quartz and plagioclase.
- 240-245 As above — with more quartz, epidote, and jasper.
- 245-258 No sample.

GEOLOGIC SUMMARY

	<u>FORMATION</u>	<u>AGE</u>
0-50	Overburden	Quaternary
50-245	Catoctin	Precambrian
245-258	No sample	
	Water was obtained from a fracture zone near the Loudoun-Catoctin contact.	

Virginia Division of Mineral Resources  
 Garnett Gatlin, Geologist  
 August 24, 1964