

OWNER: National Park Service (Shenandoah - Elkwallow)
DRILLER: Frank W. Martin Drilling Co., Inc.
COUNTY: Rappahannock

VDMR: 1703
WWCR: 34
TOTAL DEPTH: 363'

GEOLOGIC LOG

Depth in feet

0-45	No samples
45-50	Greenstone - dark greenish-gray, very fine grained, massive, hackly fracture; feldspar, amphibole, epidote.
50-55	" with trace vein quartz.
55-60	"
60-65	"
65-70	" with trace of jasper.
70-75	" "
75-80	" "
80-85	"
85-90	Andesitic basalt - dark purple-gray, very fine grained, sub-conchoidal fracture, massive, with epidote amygdules and veinlets.
90-95	"
95-100	Basalt - dark gray, very fine grained, massive, hackly fracture, a few epidote amygdules.
100-105	" with some dark purplish-gray andesitic basalt.
105-110	Basalt - dark gray, dark greenish-gray, and dark purplish-gray, fine grained, massive hackly fracture, epidote veinlets in purplish-gray basalt.
110-115	" with epidote amygdules.
115-120	" with much epidote as veinlets and amygdules.
120-125	" with much epidosite.

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- 125-130 Basalt - dark gray, fine grained, massive, with hackly fracture.
- 130-135 " " " " " "
- 135-140 Andesitic basalt - dark purplish-gray, fine grained, sub-conchoidal fracture.
- 140-145 " " with epidote veinlets and some calcite along fracture planes.
- 145-150 Basalt - light gray, fine grained, hackly fracture, with some jasper and epidote.
- 150-155 " " " " " "
- 155-160 " " " " " "
- 160-165 " " " " " "
- 165-170 " " " " " "
- 170-175 Basalt - medium gray, fine grained, sub-conchoidal fracture, trace of pyrite.
- 175-180 " " traces of jasper and epidote.
- 180-185 " " with some asbestos.
- 185-190 " " " " " "
- 190-195 " " trace of vein calcite.
- 195-200 " " " " " "
- 200-205 " " with jasper, epidote, calcite.
- 205-210 " " " " " "
- 210-215 Basalt - medium gray, fine grained, sub-conchoidal fracture, traces of epidote and pyrite.
- 215-220 " " " " " "
- 220-225 " " " " " "
- 225-230 " " " " " "
- 230-235 " " with some jasper
- 235-240 " " " " " "

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- 240-245 Basalt - medium gray, fine grained, sub-conchoidal fracture, traces of epidote and pyrite, with some jasper.
- 245-250 Basalt - dark green, very fine grained, chloritic, massive, dull fibrous luster, some purplish-gray andesitic basalt.
- 250-255 " with many epidote amygdules.
- 255-260 " "
- 260-265 " 50 per cent epidote amygdules and veins, with some massive epidosite.
- 265-270 Basalt - medium gray, fine grained, massive very amygdaloidal, with feldspar and epidote amygdules.
- 270-275 " with few amygdules.
- 275-280 " with unakite, epidosite, and white vein quartz.
- 280-285 " with some epidosite.
- 285-290 Basalt - dark gray, fine grained, massive, with very small epidote amygdules.
- 290-295 " only slightly amygdaloidal.
- 295-300 " "
- 300-305 " "
- 205-210 " no amygdules, some epidote veinlets.
- 310-315 " epidote veinlets and jasper.
- 315-320 " with some jasper.
- 320-325 Basalt - dark gray, fine grained, massive, sub-conchoidal fracture, a few small epidote amygdules.
- 325-330 " "
- 330-335 " "
- 335-340 " trace of jasper.
- 340-345 " "
- 345-350 " increase in epidote amygdules.

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350-355 Basalt - dark gray, fine grained, massive, sub-conchoidal fracture, increase in epidote amygdules.

355-560 "

360-363 Basalt - dark gray, fine grained, with mud epidote and epidosite.

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-45	No samples	
45-363	Catoctin Formation	Early Cambrian

Virginia Division of Mineral Resources
T. M. Gathright, Geologist
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