

OWNER: National Park Service (Shenandoah)
(Big Meadows Test Hole #4, Site #5)
DRILLER: Frank W. Martin Drilling Company
COUNTY: Madison (Syria)

VDMR - 1702
WWCR - 44
TOTAL DEPTH - 350'

GEOLOGIC LOG

Depth in Feet

0 - 5	Fine Silty Clay-Loam — light reddish-brown soil with fragments of metamorphosed-basalt.
5 - 10	Metamorphosed-Basalt — weathered, very dark green, fine-grained fragments, with soft clay.
10 - 15	Metamorphosed-Basalt — weathered to soft iron-oxide-stained clay, with unweathered amigdoloidal jasper.
15 - 20	"
20 - 25	Metamorphosed-Basalt — light gray-green, very fine-grained; hornblende, plagioclase, biotite, and trace of jasper; some weathered material.
25 - 30	"
30 - 35	"
35 - 40	"
40 - 45	Metamorphosed-Basalt — medium gray-green, very fine-grained; hornblende, plagioclase, biotite, and trace of jasper; some epidote veination.
45 - 50	"
50 - 55	" with trace of epidosite.
55 - 56	"
56 - 60	" with considerable epidosite.
60 - 65	" trace epidosite.
65 - 70	" "

70 - 75	Metamorphosed Basalt — medium gray-green, very fine-grained; hornblende, plagioclase, biotite, and trace of jasper; some epidote veination.
75 - 80	"
80 - 85	"
85 - 90	" Trace of epidote.
90 - 95	" "
95 - 100	"
100 - 105	"
105 - 110	"
110 - 115	"
115 - 120	"
120 - 125	" with amigdoloidal jasper.
125 - 130	Epidotized Metamorphosed-Basalt — medium gray-green to light green; very fine-grained, equigranular; some jasper and vein calcite.
130 - 135	"
135 - 140	Metamorphosed-Basalt — medium gray-green, very fine-grained; hornblende, plagioclase, traces of epidote, jasper, and calcite.
140 - 145	"
145 - 150	"
150 - 155	"
155 - 160	"
160 - 165	"
165 - 170	"
170 - 175	"
175 - 180	"
180 - 185	"
185 - 190	"

- 190 - 195 Metamorphosed-Basalt — medium gray-green, very fine-grained; hornblende, plagioclase, traces of epidote, jasper, and calcite.
- 195 - 200 " "
- 200 - 205 " with considerable epidote.
- 205 - 210 " "
- 210 - 215 " with trace of asbestos.
- 215 - 220 " "
- 220 - 225 " with considerable epidote and jasper.
- 225 - 230 Metamorphosed-Basalt — dark pinkish-gray, very fine-grained; with some epidote veins and jasper.
- 230 - 235 " with calcite-filled vesicles.
- 235 - 240 " "
- 240 - 245 " "
- 245 - 250 " "
- 250 - 255 " "
- 255 - 260 " "
- 260 - 265 " "
- 265 - 270 " "
- 270 - 275 Metamorphosed-Basalt — dark greenish-gray, very fine-grained; traces of epidote.
- 275 - 280 " with trace of calcite.
- 280 - 285 " "
- 285 - 290 Epidosite — light grayish-green, very fine-grained; with dark gray to dark pinkish-gray, very fine-grained metamorphosed-basalt; trace of asbestos.
- 290 - 295 " with white-quartz vesicle fillings.
- 295 - 300 " "

- 300 - 305 Metamorphosed-Basalt — dark pinkish-gray to dark gray, very fine-grained; with epidote veinlets and epidote and quartz vesicles.
- 305 - 310 " "
- 310 - 315 " "
- 315 - 320 " "
- 320 - 325 " "
- 325 - 330 " "
- 330 - 340 " with only traces of epidote and quartz.
- 340 - 345 " "
- 345 - 350 Metamorphosed-Basalt — dark gray, fine-grained; with considerable jasper and epidote; traces of asbestos and quartz.

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0 - 25	Overburden	
25 - 350	Catoctin Formation	Precambrian ?

Virginia Division of Mineral Resources
 Thomas M. Gathright - Geologist
 February 17, 1967