OWNER: National Park Service (Shenandoah)

Comers Deadening Test Hole #3

DRILLER: Frank W. Martin Drilling Company

COUNTY: Madison (Old Rag)

GEOLOGIC LOG

VDMR: 1136

WWCR:

TOTAL DEPTH: 365'

Depth in feet

85 - 90

Depth in feet	
0 - 5	Weathered Zone - greenstone, quartzite, and meta-graywacke.
5 - 10	with some asbestos.
10 - 15	н
15 - 20	11 11
20 - 25	H H
CATOCTIN I	FORMATION (25-270)
25 - 30	Greenstone - bluish-green, fine-grained; quartz, epidote, feldspar, biotite, chlorite, and hematite.
30 - 35	TT.
35 - 40	with less epidote.
40 - 45	Greenstone — light green, fine-grained; quartz, feldspar, biotite, chlorite, hematite, and epidote.
45 - 50	with vein quartz.
50 - 55	without vein quartz.
55 - 60	Greenstone — light green, fine-grained; quartz, feldspar, biotite, chlorite, hematite, and epidote.
60 - 65	11
65 - 70	Greenstone — bluish-green, fine-grained; quartz, biotite, chlorite, fledspar and epidote.
70 - 75	п
75 - 80	11
80 - 85	11

11

#1136

	90 - 95	Greenstone	<pre>- light chlorite,</pre>	fine-grained; idote.	quartz,	feldspar,	biotite,
\bigcirc	95 - 100		tt				
	100 - 105		11				
	105 - 110		tt				
	110 - 115		11				
	115 - 120		Į†				
	120 - 125	Greenstone	_	ue, fine-graine oidote; fracture		tz, biotite	, chlorite,
	125 - 130		11	no fracture a	zone.		
	130 - 135		11	t i			
	135 - 140		11	11			
	140 - 145		11	11	•	with vugula	ar quartz.
<u> </u>	145 - 150			ue, fine-graine pidote; fracture		tz, biotite	, chlorite,
<u></u> '	150 - 155		11	no fracture 2	zone.		
	155 - 160		П	11			
	160 - 165		11	11			
	165 - 170		11	T1			
	170 - 175		11	11			
	175 - 180		— bluis feldspar,	n, fine-graineo oidote.	d; quart:	z, biotite,	chlorite,
	180 - 185		11	with vein qua	artz.		
	185 - 190		11	no vein quar	tz.		
	190 - 195		11	with vein qua	artz.		
	195 - 200		U	11			
\bigcirc	200 - 205		п	no vein quar	tz.		

205 - 210	Greenstone — greenish-blue, coarser grained than above; feldspar, quartz, epidote, biotite, chlorite.
210 - 215	II .
215 - 220	11
220 - 225	11
225 - 230	with fracture zone.
230 - 235	no fracture zone.
235 - 240	Greenstone — greenish-blue, relatively coarse-grained; quartz, biotite, chlorite, feldspar and epidote.
240 - 245	H .
245 - 250	п
250 - 255	П
255 - 260	11
260 - 265	II
265 - 270	11
SWIFT RUN	FORMATION (270 - 365)
270 - 275	Greenstone and Metamorphosed Graywacke —greenstone as above; meta-graywacke is fine- to medium-grained, with clear and stained quartz, plagioclase, chlorite and mafics.
275 - 280	Metamorphosed-Graywacke — fine- to medium-grained, clear and stained quartz, plagioclase, chlorite and mafics.
280 - 285	ti .
285 - 290	Metamorphosed-Graywacke and Phyllite — meta-graywacke as above; phyllite is bluish-black, with vein quartz, asbestos.
290 - 295	with minor iron oxid stains.
295 - 300	11 11
300 - 305	Metamorphosed-Graywacke — poorly sorted; quartz, chlorite, feldspar, muscovite, and mafics.
305 - 310	11

310 - 315	Metamorphosed-Graywacke — poorly sorted; quartz, chlorite, feldspar, muscovite, and mafics.
315 - 320	tt
320 - 325	Metamorphosed-Graywacke and Phyllite — metamorphosed-graywacke as above; phyllite is bluish-gray and green.
325 - 330	II .
330 - 335	£ £
335 - 340	11
340 - 345	with large amount of weathered material.
345 - 350	Metamorphosed-Graywacke and Phyllite — metamorphosed-graywacke is poorly sorted; with quartz, feldspar, chlorite, and mafics phyllite is green, and contains some weathered material.
350 - 355	No sample.
355 - 360	Metamorphosed-Graywacke and Phyllite — metamorphosed-graywacke is poorly sorted; with quartz, feldspar, chlorite, and mafics phyllite is green, and contains some weathered material.
360 - 365	

GEOLOGIC SUMMARY

Depth	Rock Unit	Age		
0 - 25	Weathered zone	Quaternary		
25 - 270	Catoctin Formation	Cambrian-Precambrian		
270 - 365	Swift Run Formation	Precambrian		

Virginia Division of Mineral Resources Garnett Gatlin - Geologist October 29, 1964