OWNER: Shenandoah National Park (Thornton Gap #1) VDMR # 948
DRILLER: Sydnor Pump & Well Co. WWCR # 79
COUNTY: Page (Thornton Gap) TOTAL DEPTH : 333

GEOLOGIC LOG

0-5	Overburden-weathered fragments of basalt, quartz, & pyrite.
5-10	As above
10-15	Basalt boulders-epidote & quartz, weathered fragments of basalt.
15-20	Basalt-fresh & weathered fragments of epidote, quartz, jasper (top of bed rock in this interval).
20-25	Basalt-epidote, quartz, & jasper, traces of weathering.
25-30	As above
30-35	Basalt-epidote, quartz, & jasper, weathered fragments of basalt & quartz.
40	As above
60	As above
65	Basalt-epidote, quartz, & jasper, minor amounts of weathered & stained quartz & feldspar fragments.
70	As above
75	As above
85	As above
90	As above
95	Basalt-epidote, jasper, & quartz, weathered material (epidote, quartz, mica, & feldspar) comprises 30-50 percent of sample.
100	As above
105	As above
110	As above
115	As above
120	As above-decrease in amount of weathered material.
125	As above
130	Basalt-epidote, quartz, & jasper, traces of weathering & staining.
135	As above

140	Basalt-epidote, quartz, & jasper.
145	Basalt-epidote, quartz, jasper, and chlorite.
150	Basalt-epidote and quartz.
155	Basalt-X-ray analysis: minerals in order of decreasing percent; plagioclase, chlorite, amphibole, clinopyroxene, with accessory muscovite, quartz, & epidote.
160	Basalt-epidote, abundance of chlorite.
165	Basalt-epidote, quartz, jasper, chlorite.
170	As above
175	Basalt-epidote, quartz, jasper, chlorite, and asbestos.
180	Basalt-epidote, quartz, jasper, slight alteration of basalt fragments.
185	As above
190	As above
195	Basalt-epidote, quartz, jasper, asbestos, & chlorite.
200	As above
205	As above
210	As above
215	Basalt-jasper, chlorite, slight alteration of basalt fragments, (X-ray analysis: minerals in order of decreasing percent; plagioclase, chlorite, clinopyroxne, amphibole, accessory quartz).
220	Basalt
225	As above
230	Basalt-chlorite & epidote.
235	Basalt-epidote, quartz, & chlorite, slight alteration of basalt fragments.
240	Basalt-X-ray analysis: minerals in order of decreasing percent; plagioclase, chlorite, amphibole, clinopyroxene, accessory mica, quartz, & epidote.
245	Basalt-jasper, chlorite, epidote, & quartz, slight alteration epidote & basalt fragments.
250	Basalt-epidote, quartz, & jasper
255	As above

260 Basalt-epidote, jasper, quartz, & asbestos, slight alteration of basalt fragments.

265 Basalt-epidote, quartz, & chlorite.

270 Basalt-epidote, quartz, & jasper, slight alteration of basalt fragments.

275 As above

280 Basalt-X-ray analysis: minerals in order of decreasing percent; plagioclase, chlorite, clinopyroxene, amphibole & pyroxene.

285 As above

290 Basalt-epidote, quartz, jasper, & chlorite, (X-ray analysis: variation of basaltic composition, minerals in order of decreasing percent; mica, plagioclase, clinopyroxene, & amphibole).

295 Basalt-X-ray analysis: variation of basaltic composition, minerals in order of decreasing percent; mica, plagioclase, clinopyroxene, amphibole, & chlorite.

300 As above-X-ray analysis: minerals in order of decreasing percent; plagioclase, chlorite, clinopyroxene, amphibole & pyroxene.

305 Basalt

310 Basalt-abundance (40-50%) epidote, accessory jasper.

315 Basalt-epidote, quartz, & jasper, moderate alteration of basalt fragments.

320 Basalt-chlorite, epidote, jasper, & quartz.

325 Basalt-abundance of jasper, epidote, & quartz, accessory chlorite, slight alteration of basalt fragments.

330 Basalt-epidote, jasper, chlorite, & quartz.

GEOLOGIC SUMMARY

	ROCK UNIT	AGE
0-330	Catoctin formation	Precambrian

Virginia Division of Mineral Resources
Roger C. Wilkenloh-Geologist
March 16, 1964