

OWNER: T. K. Ellis (Stepping Stones #7)
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Bath (Hot Springs)

VDMR: 1339
WWCR: 33
TOTAL DEPTH: 318'

GEOLOGIC LOG

Depth in feet

- 0- 20 Sandstone — cream- to reddish-brown and purple-gray; poorly sorted, subangular, fine- to coarse-grained; lighter-colored portions slightly arkosic.
- 20- 50 Sandstone and Limestone — dark-red to purple-gray, fine-grained sandstone; medium-dark-gray, fine-grained limestone with few fossils and rare rhombohedrons of dolomite; minor white-calcite veins.
- 50- 60 Limestone — dark- to medium-dark-gray, very fine-grained to medium-fine crystalline, fossiliferous; minor cream-colored argillaceous limestone and sparry vein calcite.
- 60- 76 Limestone — medium-light gray, aphanogranular, subconchoidal fracture; minor thin veins sparry calcite.
- 76- 91 Limestone — medium gray, very fine-grained, occasional rhombohedral dolomite; trace pyrite.
- 91-106 Limestone — dark gray, fine-grained, carbonaceous, minor pyrite.
- 106-120 Limestone — light-gray and cream- to medium- dark gray, fine-grained, uneven fracture, minor sparry veins; minor small, well-rounded, red-brown quartz and sandstone pebbles and iron-oxide nodules.
- 120-121 No sample.
- 121-136 Limestone — medium-dark gray, minor light-gray, fine-grained, uneven fracture; minor small rounded pebbles; gray and red-brown, fine-grained sandstone; coarse-sand-size, water-worn iron-oxide nodules.
- 136-151 " limestones slightly darker.

151-163	Limestone — very dark-gray, fine-grained, crystalline, uneven fracture; few rounded pebbles of quartzite, ferruginous sandstone and limonite; traces of vein calcite, crinoid fragments, and pyrite in limestone.
163-178	" with trace of limonite.
178-193	" some medium- to coarse-grained limestones.
193-208	" "
208-223	" "
223-238	" "
238-253	" "
253-268	Limestone — very dark-gray, medium- to fine-grained, crystalline, uneven fracture; and light-gray microcrystalline limestone with concoidal fracture; traces of limonite and vein calcite.
268-283	"
283-298	"
298-304	"
304-318	" with disintegrated quartz sandstone, siderite, mud pellets and fossil fragments all from solution cavity in limestone.

GEOLOGIC SUMMARY

Rock Unit

Age

Benbolt Formation (?)

Middle Ordovician

Virginia Division of Mineral Resources
H. N. Walker and T. M. Gathright, Geologists
February 11, 1967