

OWNER: Virginia Hot Springs, Incorporated
"Old Dairy Farm" #1
DRILLER: Sydnor Pump & Well Company, Inc.
COUNTY: Bath

VDMR #1192
WWCR # 32
TOTAL DEPTH: 341'

GEOLOGIC LOG

Overburden (0-96')

- 0-45 Overburden — light-brown, medium-brown, blackish-red; coarse- to fine-grained; sand, clay, and gravel composed of sandstone and shale.
- 45-70 No sample.
- 70-80 Gravel — light-brown and medium-gray, subrounded pebbles (to 13 mm); shale and limestone, minor angular sandstone.
- 80-96 No sample.
- 96 Gravel — light-gray and light-brown, subangular pebbles (to 13 mm); limestone, slightly fossiliferous, shale, minor sandstone; vein calcite.
- 96-101 No sample.

Moccasin Formation (101-290')

- 101-110 Limestone — medium-gray, fine-grained, dense; minor light-gray, oolitic, fossiliferous limestone which has been brecciated and recemented with ferruginous material; trace vein calcite.
- 110-131 Limestone — medium-dark-gray, fine-grained, dense; minor fractures and associated iron stain.
- 131-145 Limestone — medium-gray, fine-grained, dense; minor light-gray, fractured limestone, recemented with ferruginous calcite.
- 145-158 Limestone — medium-gray, fine-grained; minor light-brown, porous limestone and thin shale lamina; brecciated and recemented with ferruginous calcite; trace of kaolinite lamina (X-ray examination).
- 145-160 Limestone — medium-gray and light-brown, very minor dark-brown; fine-grained, bedded; fine veins of calcite; ferruginous staining near fractures.

OWNER: Virginia Hot Springs, Inc. - "Old Dairy Farm" #1 #1192

- 160-175 Limestone -- medium-gray, light-gray, and light-brownish-gray, fine-grained, minor vein calcite. The brownish material is argillaceous and iron stained.
- 175-190 No sample.
- 190-205 Limestone -- medium-gray and light-gray, minor light-brownish-gray, fine-grained; minor vein calcite. The brownish limestone is argillaceous and iron stained.
- 205-220 Limestone -- medium-gray, fine-grained, subconchoidal fracture, scattered rhombohedrons of calcite; minor light-gray, porous, argillaceous limestone.
- 220-235 Limestone -- medium-dark-gray, fine-grained, dense; minor light-brown limestone, slightly coarser; trace calcite veins.
- 235-250 As above -- less brown limestone; more calcite veins.
- 250-265 No sample.
- 265-280 Limestone -- medium-gray, fine-grained, dense; minor tan, porous, limestone; trace calcite vein.
- 280-290 As above -- less tan limestone.

McGlone Formation (290-320')

- 290-311 Limestone -- medium-gray, fine-grained, minor light-gray leached areas; light-brown, fossiliferous, porous chert.
- 309-320 Limestone -- dark-gray, fine- to medium-grained; minor light-gray fossiliferous limestone, porous; trace vein quartz.
- 320-341 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-96	Overburden	Recent
96-101	No sample	
101-290	Moccasin Formation	Upper Middle Ordovician
290-320	McGlone Formation	Upper Middle Ordovician
320-341	No sample	