

INTERVAL SHEET

WWCR 361

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VDMR Well No: 1636

Date rec'd: 6/28/66

Sample Interval: from 0 to 140

PROP: U.S. Forest Service
(Todd Lake Rec. Area)

Number of samples: 14

COMP: C. R. Moore

Total Depth: 147

COUNTY: Augusta (Stokesville)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0- 10	-	-	-
10- 20	-	-	-
20- 30	-	-	-
30- 40	-	-	-
40- 50	-	-	-
50- 60	-	-	-
60- 70	-	-	-
70- 80	-	-	-
80- 90	-	-	-
90- 100	-	-	-
100- 110	-	-	-
110- 120	-	-	-
120- 130	-	-	-
130- 140	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples

OWNER: U. S. Forest Service (Todd Lake Rec. Area)
DRILLER: C. R. Moore Well Drilling Company
COUNTY: Augusta (Stokesville)

VDMR #1636
WWCR #361
TOTAL DEPTH: 147'

GEOLOGIC LOG

0-10	Overburden — clays, weathered shale and sandstone
10-20	Shale — gray-green, some clay and weathered materials
20-30	Shale — gray-green, hard; sandstone - medium fine-grained, dark reddish-brown, well cemented, hard, some clay
30-40	"
40-50	" with increase in sand
50-60	Sandstone — gray to dark brown with reddish tint, fine grained, well cemented, hard; some shale, gray-green, hard
60-70	Sandstone — gray, medium fine to fine grained, fine mica, fairly well cemented, limited porosity
70-80	Sandstone — dark gray, speckled light gray, fine grained, well cemented, hard carbonaceous stains
80-90	Sandstone — gray to light gray, speckled, dark grains, coarse to fine grained, carbonaceous stains, well cemented, hard
90-100	" with shale, gray-green, fine mica, hard
100-110	Shale — gray, fine mica, some clay; sandstone - gray with greenish tint, fine grained, well cemented, hard, quartz crystal growth on some surfaces
110-120	Shale — gray, fine mica, few pyrite crystals, some clay
120-130	Shale — gray to gray-green, silty to sandy, fine mica, hard, some dark reddish-brown, hard silt
130-140	Shale — gray-green, fine mica; some clay and silt, gray-green, hard
140-147	No sample

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-10	Weathered shale and sandstone	
10-140	Pecora Formation	Mississippian
140-147	No sample	

of permeability

Water zones appear to be near shale-sandstone contacts, usually in the sandstone. One of the reported aquifers is a fracture-opening that has been partially filled with crystal growths. The removal of fine-grained material from small fractures and open bedding planes during drilling by air has probably cleaned out the openings, which may account for the pump-test yield (114 gpm) being considerably larger than the initial drillers estimate (60 gpm).

Virginia Division of Mineral Resources
Warren J. Souder, Geologist
June 30, 1966