INTERVAL SHEET

WWCR: 109

Page 1 of 1

VDMR Well No: 2223

Date rec'd: 8/20/68

Sample Interval: from 0 to: 210'

PROP: YMCA, Camp Weyanoke Branch

Number of samples: 21

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 215'

COUNTY: Charles City (Roland Mills)

Oil or Gas: Water:X Exploratory:

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	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: YMCA, Camp Weyanoke Branch
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Charles City (Roland Mills)

VDMR: 2223
WWCR: 109
TOTAL DEPTH: 215'

GEOLOGIC LOG

Depth in feet	
COLUMBIA GROUP (0-50')	
0-10	Sand - brown (iron-stained), clean; coarse- to very coarse-grained, fairly well-sorted, subangular to subrounded; slightly feldspathic; blue quartz and rock fragments common, but not abundant; accessory magnetite, and traces of garnet and kyanite
10-20	"
20-30	"
30-40	"
40-50	"
NANJEMOY FORMATION (50-70')	
50-60	Clay - light-gray, tan, and yellow-brown, sandy, abundant plant material; sand fraction is fine- to medium-grained, fairly well-sorted, angular; primarily clear and yellowish quartz; minor amounts of feldspar, decomposed glauconite, magnetite, epidote, and kyanite
60-70	Gravel - brown (iron-stained), clean; fine (5-15 mm), well-sorted, rounded; quartz and quartzite
MATTAPONI FORMATION (70-130')	
70-80	Sand - binder of gray clay, small amount of decomposed pelecypod shell material; fine-grained, well-sorted; 60 percent clear and greenish, angular quartz, 40 percent dark-green glauconite; moderately micaceous; foraminifers (mostly Robulus) and ostracods common, but not abundant

OWNER: YMCA, Camp Weyanoke Branch

80-90	Sand - abundant matrix of dark-gray clay, a few shell and plant fragments; 40 percent clear and greenish, very well-sorted, angular quartz; 60 percent fine- to coarse-grained, fairly well-sorted, dark-green glauconite; slightly micaceous; trace of bone phosphorite; a few foraminifers (Robulus and Nodasaria)
90-100	Sand and Shell- abundant matrix of gray clay; 35 percent decomposed pelecypod shells and shell fragments; 65 percent fine- to medium-grained, well-sorted sand; sand consists of 40 percent clear and greenish, angular quartz, and 60 percent dark-green glauconite; slightly micaceous; a few foraminifers and ostracods
100-110	Sand and Shell - binder of dark-gray clay; 20 percent decomposed pelecypod shells and shell fragments; 80 percent fine- to medium-grained, fairly well-sorted sand; sand consists of 90 percent dark-green glauconite, and 10 percent angular quartz; a few foraminifers and bone fragments
110-120	Sand and Shell - abundant matrix of medium-gray clay; 25 percent decomposed pelecypod shell fragments; 75 percent fine- to medium-grained, well-sorted sand; sand consists of 60 percent clear and greenish, angular to subangular quartz, and 40 percent dark to medium green glauconite; slightly micaceous; small foraminifers moderately abundant
120-130	Sand - abundant matrix of greenish-gray and brownish-gray clays, a few shell fragments; fine-grained, well-sorted; 65-70 percent angular, clear quartz, and 30-35 percent dark-green glauconite; muscovite common; small foraminifers common, but not abundant

PATUXENT FORMATION (130-215')

130-140	Clay - variegated, with brown aspect, sandy, a few shell fragments; sand is fine- to medium-grained, fairly well-sorted; 75 percent clear and yellowish, angular quartz, 25 percent slightly decomposed glauconite; moderately micaceous
140-150	" with 15-20 percent glauconite
150-160	Sand - brownish-gray, clayey; fine- to medium-grained, fairly well-sorted, angular to subangular; clear quartz; with minor feldspar and muscovite, and 5 percent dark-green glauconite; trace of garnet

OWNER: YMCA, Camp Weyanoke Branch

160-170	Sand - tan, slightly to moderately clayey, medium- to coarse-grained, fairly well-sorted (skewed coarse), subangular to subrounded; slightly to moderately feldspathic, clear quartz sand; traces of muscovite, glauconite, and garnet
170-180	Sand - gray, slightly clayey, 15-20 percent subrounded, quartzo-feldspathic granule gravel; medium- to very coarse-grained, rather poorly sorted, angular to subrounded; feldspathic; traces of garnet and tourmaline
180-190	"
190-200	" very coarse-grained, with 25 percent granule gravel and a few small pebbles up to 10 mm
200-210	Sand - light-brown, very slightly clayey, 2-3 percent granule gravel; coarse- to very coarse-grained, well-sorted, subangular to subrounded; feldspathic; accessory garnet, tourmaline, and glauconite
210-215	No sample

GEOLOGIC SUMMARY

	Rock Unit	Age
0-50'	Columbia Group	post-Miocene
50-70'	Nanjemoy Formation	Eocene
70-130'	Mattaponi Formation	Paleocene - Late Cretaceous
130-215'	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
September 10, 1968

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March 7, 1972