INTERVAL SHEET

Page 1 of 1

Date rec'd: 5/10/67

PROP: Prince George School Board (Harrison Elementary School) COMP: Mitchell's Well & Pump Company

COUNTY: Prince George (Disputanta)

VDMR Well No: 1873

Sample Interval: from 0¹ to: 167¹9¹¹

Number of samples: 16

Total Depth: 167'9"

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	_	
10 - 20	_	-	· · ·
10 - 20	_	_	
20 - 30			
10 = 50	_		_
40 50			-
50 - 60	_	_	_
60 - 70		_	_
70 - 80	_	-	_
80 - 80			
80 = 90		_	2
90 100			
100 - 110	_		
100 - 110 110 - 120	_	-	· · · · · · · · · · · · · · · · · · ·
110 - 120		-	
120 - 130			×
130 - 140			-
140 - 150	-	-	_
150 - 1(7 0		_	
150 - 167.9	-		-
-	-		
-	-		-
-	-		-
-	-	-	
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	
			1.4.4
-	-	-	-
-	-	-	. – :
-	-	-	2 — 3
-	-	-	-
-	-	-	· · · · · · · · · · · · · · · · · · ·

All intervals have both washed and unwashed samples.

OWNER: Prince George County School Board (D. A. Harrison Elem. School) DRILLER: Mitchell's Well & Pump Company COUNTY: Prince George (Disputanta) VDMR: 1873 WWCR: 163 TOTAL DEPTH: 168'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-20')

0-10 Sand - abundant matrix of pale-yellow clay; very fine- to very coarse-grained, poorly sorted, angular to subangular; clear quartz, with trace of weathered feldspar

10-20 Sand - abundant matrix of yellow-orange clay, 5 percent granule gravel; very fine- to coarse-grained, rather poorly sorted (skewed fine), angular to subangular; feldspar common in coarse fraction; some ferricrete

YORKTOWN FORMATION (20-90')

- 20-30 Sand abundant clay matrix, medium-gray, mottled yellowish-gray to yellowish brown (limonitic); fine- to medium-grained, moderately sorted; quartz, with 5 percent green glauconite, and minor feldspar; traces of muscovite and shell
- 30-40 Sandstone (ferricrete) orange-brown and red-brown to brown; medium-grained, moderately sorted, variably rounded; clear to iron-oxide stained quartz, with 10 percent dark to yellowish-green glauconite; minor hematite; cement is locally manganic
- 40-50 Sand and Sandstone bioclasts, moderately abundant matrix of light-brown clay, a few coarse shell fragments; 40 percent medium-grained, well-sorted, clear, angular quartz; 60 percent abraded, blue-gray shell fragments, including an abundance of echinoid spines and plates; bioclasts are 1/4 to 4 mm in size; locally a calcitic sandstone; foraminifers and ostracods common; a few Turritella
- 50-60 Sand and Shell moderately abundant tan clay; 60 percent mediumgrained, well-sorted, clear, subangular quartz sand; 40 percent pelecypod shells and coarse shell fragments; <u>Turritella</u> present; a few foraminifers and ostracods; some carbonate cementation of sand in association with coarse shell fragments; trace of glauconite

OWNER: Prince George County School Board

11

9 -SUGAR

60-70 Sand - brown clay binder; medium- to very fine-grained, wellsorted, angular to subangular; a few shell fragments, echinoid spines, and foraminifers; fine fragments of black carbono-phosphatic material common; trace of glauconite

70-80

80-90 Sand - sparse matrix of light-brown clay; fine-grained, well sorted; 80 percent clear, angular quartz; 20 percent glauconite; a few foraminifers, shell fragments, and small phosphate nodules

MATTAPONI FORMATION (90-120')

- 90-100 Sand dark-gray, moderately clayey; fine- to very fine-grained, very well-sorted; 60 percent clear to green-tinted, angular quartz; 40 percent fresh, greenish-black, very fine- to medium-grained glauconite; muscovite prominent; a very few shell fragments, foraminifers, and echinoid spines
- 100-110 Sand black, moderately clayey, a few quartz pebbles, phosphate nodules, and large shell fragments; very fine- to mediumgrained, fairly well-sorted; 60 percent greenish-black glauconite, 30 percent angular quartz; 10 percent molluscan shell fragments; a few foraminifers
- 110-120 Sand and Gravel speckled, clayey; 25 percent fine (2-8 mm) quartz gravel; 75 percent fine-grained, fairly well-sorted sand; 60 percent glauconite, 40 percent quartz; a few shell and bone fragments; foraminifers common, but not abundant

PATUXENT FORMATION (120-168')

120-130 Sand - light-gray, clean, 20 percent granule gravel (quartz, feldspar, sandstone); coarse- to very coarse-grained, well-sorted, subangular to subrounded; clear quartz; feldspathic; minor garnet, pyrite, and glauconite

130-140 "

140-150	н	trace	of	gravel	

150-168 " 15 percent gravel

OWNER: Prince George County School Board

GEOLOGIC SUMMARY

Rock Unit

Age

Columbia Group	post-Miocene	
Yorktown Formation	Miocene	
Mattaponi Formation	Paleocene - Late Cretaceous	
Patuxent Formation	Early Cretaceous	
	Columbia Group Yorktown Formation Mattaponi Formation Patuxent Formation	

Virginia Division of Mineral Resources Robert H. Teifke, Geologist October 17, 1967

Robert H. Teifke March 3, 1972