OWNER: U. S. Coast Guard

DRILLER: Douglas & Dickinson, Inc.

COUNTY: Mathews (Gwynn Island)

VDMR: 2149 WWCR: 55

TOTAL DEPTH: 136'

### GEOLOGIC LOG

Depth	in
feet	

#### COLUMBIA GROUP (0-10')

O-10 Sand — abundant matrix of gray and orange-brown clays, a few quartz pebbles and fragments of ferricrete; fine- to medium-grained, moderately sorted, angular to subangular; clear and iron-stained quartz, minor feldspar, and a trace of magnetite

### YORKTOWN FORMATION (10-136')

- 10-21 Clay dark greenish-gray, sandy, 5-10% chalky pelecypod shell fragments; sand is fine- to medium-grained, fairly well-sorted, angular to subangular; traces of magnetite, and feldspar
- 21-31
- 31-42 Clay dark-gray, slightly sandy, abundant carbonaceous material and plant fragments
- 42-52
- 52-63 Sand abundant matrix of greenish-gray clay; fine- to mediumgrained, fairly well-sorted, angular; slightly feldspathic; trace of magnetite
- 53-73 Sand brownish-gray, slightly- to moderately-clayey, 5% pelecypod shell fragments; fine- to coarse-grained, fairly well-sorted (skewed fine), angular to subrounded; slightly feldspathic in coarse fraction; traces of magnetite and reworked glauconite
- 73-84 Sand and Shell sparse matrix of brownish-gray clay; 50% coarse pelecypod shell debris; 50% fine- to coarsegrained, poorly-sorted sand; slightly feldspathic; traces of garnet, pyrite, epidote, and reworked glauconite
- 84-94 " 80% coarse shell, 20% sand
- 94-105 " 70% coarse shell, 30% sand

OWNER:	U. S. Coast Guard	#2149
105-115	•	ic, sandy; coarse molluscan and shell fragments, and and; sparse carbonate sement
115-126	н	
126-136		about 50% coarse, well-rounded tz sand

# GEOLOGIC SUMMARY

	ROCK UNIT	AGE
0-10'	Columbia Group	Pleistocene
10-136 <sup>t</sup>	Yorktown Formation	Late Miocene

Virginia Division of Mineral Resources Robert H. Teifke, Geologist March 25, 1968

#### COMMONWEALTH OF VIRGINIA

VDMR: 2149 WWCR: 55

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

B 3667

McCormick Road

WATER WELL COMPLETION Charlottesville, Virginia C. lottesville, VA 22903 REPORT

0 0 1	Mailing Address: Gwynn Island M093
TENANT: U. S. Coast Guard	Mailing Address: Gwynn Island
DRILLER: Douglas & Dickinson Inc. (B. Taylor)	Mailing Address: Box 498, Warsaw, Virginia
WELL LOCATION: CountyMathews	Approx. 300 feet West of Bridge MXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
on Gwynn Island and and	feet (slo riwerd bristland) SA 184 — miles (direction) of
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TW	VO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: May 31, 1967	
TYPE OF DRILL RIG USED: Rotary	TOTAL DEPTH 136 feet
WATER LEVEL: Stands 6 feet below as	
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: MethodAir lift	HOLE SIZE: 12 inches from 0 to 136 feet
Drawdown 49 feet	tototofeet
Rate 200 gal. per min.	inches fromtofeet
Duration 2 hrs., 00 min.	SCREEN SIZE: 4 inches from 105 to 125 feet
WATER ZONES: from 105 to 125 feet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from 0 to 105 feet
WATER: Color None Taste None	
Odor <u>None</u> Temp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method Neat Grout
Farm Town School	Cement 0-100  Material Gravel Depth 100-136 feet
IndustryOther_ Coast Guard Sta.	PUMP: Type Submersible
NATER ANALYSIS AVAILABLE: YesNoX	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes X No DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT IN OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED ARKS:	

COMMONWEALTHOOD VIRGINIA

FURNISHED BY: Douglas & Dickinson, Inc. DATE: February 1968

ITAL	et)	TYPE OF ROCK OR SOIL PENETR	
FROM	TO	(gravel, clay, etc., hardness, color,	etc.) (water, caving, shot, screen, sample, etc.)
0	2	Brown sand	TIWANT: U. F. Coges Guard
2	10		
10	21	Blue clay and shell	DRICKER. Doubles & Dickinson Ltd. (B. Kaylo
21	31	Blue clay and shell	WELL LOCATION County Mathews
31	42		
42	60	Blue sand and clay	on Gvyar Island ond
60	63	Yellow and brown clay	GIVE DIRECTION AND DISTANCE IN FEFT OR MILES FROM I
63	73	Shell and yellow and blue clay	COUNTY HIGHWAY OR OTHER MAP)
73	81 700	Brown sand	DATE STARTED May 31, 1967
81	84	Clay	
84	88		TYPE OF ORILL RIGHSED ROUTY
88	99	Sand, shells, clay	A TOTAL STATE
99	105		WATER LUVEL: Stones 6 1981 Delow 8
05	115	Shell Shell	_to wolf _ARUTAN FOR
15	122		
22 0	124	White sand 11 3008	YIELD TEST Nemos Air lift
24	126	White sand and shell	ts 11 nwabward
26	136	Clay and shell	
teet		mani(sance	n m rea too <u>00S</u> sina
16910	<u>SI</u>	SCREEN SIDE in mes from 10	Duration 2 fire 00 mm
to a female	01	aport escon	WATER ZONES: from 105 to 125 test
1991	0	_ molti (eq.( )m)	1001
last Cl	1	CASE SIZELY menus rom	1 s o i
	1 6. 63	1	WATER Color None 7667: Jone
1991	01	mont centri	odor None Table
	) [ -0	GROUT, NG. Methou Neat Gro	VELL TO SUPPLY (check one, home
		gadBy6nD_TensioN	TarmSchool
		PUMP: TypeSucinersial	industryother Count nard Sta.
	10000	- vfisugeD	MIER ANALYSIS AVAILABLEIVE No X
	1	Depth of intoke	SHEZ SUTTINGS EAVED GBVA3 ROWITTHD LIN
		THERMALS THESE SAMPLES MAY BE	DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOL ST
			→ A P KS
	1		
	1	(Use additional forms	if necessary)

# INTERVAL SHEET WWCR: 55

1 of 1

VDMR Well No: 2149

Date rec'd: 2/28/68

Sample Interval: from 0 to: 136'

PROP: U. S. Coast Guard

Number of samples: 13

COMP: Douglas & Dickinson

Total Depth: 136'

Oil or Gas: Water: X Exploratory:

COUNTY: Mathews (Gwynn Island)

From-To	From-To	From-To	From-To
0 - 10	ş: <b>—</b> .	-	
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21 - 31	-	-	-
31 - 42	· ·	_	_
42 - 52	u <b>-</b>	-	_
52 - 63	<del>-</del>	_	<b>_</b> ****
63 - 73	·	_	_
73 - 84	-	_	_
84 - 94		_	
94 - 105	-	_	
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105 - 115	_	_	<u> 2</u> 0 - 0
115 - 126	_	_	
126 - 136	, <del>-</del>	-	
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