

OWNER: U. S. Navy (Northwest Well #3A)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Norfolk (Northwest)

VDMR: 2085
WWCR: 163
TOTAL DEPTH: 118'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-30')

0-10	Sand - tan, clean; fine- to medium-grained, well-sorted, subangular to rounded and frosted; quartz; very slightly feldspathic
10-20	" "
20-30	" "

YORKTOWN FORMATION (30-118')

30-40	Sand - medium-gray, clean; fine- to coarse-grained, fairly well-sorted, subangular to well-rounded; quartz; a few small shell fragments ; accessory rounded garnet and tourmaline
40-50	Sand - gray, clean; medium-grained, well-sorted, subangular to subrounded; quartz; a very few abraded shell fragments; accessory garnet, tourmaline
50-60	" abraded shell fragments common, but not abundant
60-70	" 5% abraded shell fragments
70-80	" 5% abraded shell fragments
80-90	Sand - gray, clean, 25% shell fragments of sand grade; medium- to coarse-grained, well-sorted, subrounded to rounded; trace of phosphoritic bone and shell; a few foraminifers
90-100	Sand - gray; 60% medium-grained, fairly well-sorted, subangular to rounded quartz; 40% medium- to very coarse-grained abraded shells and shell fragments of pelecypods, gastropods, echinodems; foraminifers abundant; a few ostracods
100-110	" "

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#2085

110-118 Sand - gray, trace of clay; fine- to medium-grained, well-sorted; 50% quartz, 50% shells and shell fragments; very foraminiferal ; ostracods and echinoid spines abundant

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Columbia Group	Pleistocene
30-118'	Yorktown Formation	Late Miocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
January 22, 1968

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR - 2085
WWCR - 163

MAILING ADDRESS:

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Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: U. S. Navy Bldg. 68-Code 495-Norfolk Naval Shipyard
Mailing Address: Portsmouth, Virginia

TENANT: Northwest Radio Station Well 3-A Mailing Address: Chesapeake, Virginia

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: Box 1476, Richmond, Virginia

WELL LOCATION: XXXXXX City Chesapeake Approx. 3600 feet west (direction) of
Route 740 and 5 miles east (direction) of U. S. 17

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: July 18, 1967 DATE COMPLETED: September 18, 1967

TYPE OF DRILL RIG USED: Rotary No. 64 TOTAL DEPTH 118 feet

WATER LEVEL: Stands 5 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible
Drawdown 26'1" feet
Rate 44 gal. per min.
Duration 24 hrs., _____ min.

WATER ZONES: from 50 to 60 feet
from 82 to 92 feet
from _____ to _____ feet

WATER: Color Clear Taste OK
Odor None Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other Radio Station

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: Yes X No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: Electric log ran by driller

HOLE SIZE: 24 inches from 0 to 46 feet
14 inches from 46 to 104 feet
9 7/8 inches from 104 to 118 feet

PRECAST
SCREEN SIZE: 13 inches from 50 to 61'1-1/2"
13 inches from 82 to 93'3" feet
_____ inches from _____ to _____ feet

CASE SIZE: 18 inches from 0 to 46 feet
14 inches from 0 to 49 feet
10 inches from 49 to 50 feet
10 inches from 61'1 1/2" to 82 feet

GROUTING: Method Pressure
Material cement/water Depth 46 feet

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: November 30, 1967

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	1	Top soil	
1	3	Gray silty soil	
3	23	Fine yellow sand	
23	64	Fine gray sand with some shells	
64	73	Gray clay and sand clay	
73	118	Fine gray sand	

