

OWNER: Norfolk General Hospital
DRILLER: Layne-Atlantic Company
COUNTY: Norfolk (Norfolk)

VDMR: 1959
WWCR: 161
TOTAL DEPTH: 125'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-10')

0-10 Sand - binder of tan clay, a few shell fragments; medium- to coarse-grained, fairly well-sorted, subangular to subrounded; slightly feldspathic; minor magnetite

YORKTOWN FORMATION (10-125')

10-23 Sand and Shell - abundant matrix of gray- and brownish-gray clays; 50% coarse pelecypod shells and shell fragments, and several genera of gastropods; 50% fine- to coarse-grained, poorly-sorted, angular to subrounded sand; clear quartz, with small amounts of partially decomposed feldspar (in coarse fraction) and glauconite; traces of muscovite, and phosphatic and carbonaceous materials; foraminifers common, but not abundant

23-33 " with considerable brown- to blackish-brown, sand free, organic clay, and a few plant fragments

33-43 " "

43-53 Sand and Shell - sparse binder of drab, brownish clay, 25% coarse pelecypod shell fragments; fine- to coarse-grained, rather poorly-sorted, angular to subrounded; clear quartz, with small amounts of feldspar (in coarse fraction), magnetite, glauconite, epidote, hornblende, muscovite, and carbonaceous material; a few foraminifers and echinoid spines

53-64 Sand - moderately-abundant binder of brownish-gray clay; 10% pelecypod shell fragments; fine- to medium-grained, moderately-sorted, angular to subangular; clear quartz, with minor amounts of magnetite, glauconite, muscovite, hornblende, epidote, and garnet; foraminifers, ostracods, and echinoid spines moderately abundant

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- 64-74 Sand - clayey (medium-gray clay); fine- to medium-grained, fairly well-sorted, angular to subangular; clear quartz, with subordinate glauconite, magnetite, muscovite, hornblende, epidote, and carbonaceous material; a few shell and plant fragments; abundant echinoid spines, foraminifers (Nonion and Globigerina prominent), and ostracods
- 74-85 " about 15% microfossils (echinoid spines and plates, foraminifers, and ostracods)
- 85-95 " "
- 95-105 " "
- 105-110 Sand - slightly clayey (grayish-brown clay); fine- to coarse-grained, rather poorly-sorted, angular to subrounded; clear quartz, with minor amounts of feldspar (in coarse fraction) and magnetite; traces of glauconite and muscovite; some blue quartz; 5% shell fragments; echinoid spines, foraminifers, and ostracods common, but not abundant
- 110-125 " moderately clayey

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-10	Columbia Group	Pleistocene
10-125	Yorktown Formation	Late Miocene

Virginia Division of Mineral Resources
 Robert H. Teifke, Geologist
 November 10, 1967

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR - 1959
WWCR - 161

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

P. 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Norfolk General Hospital Mailing Address: Norfolk, Virginia

TENANT: _____ Mailing Address: _____

DRILLER: Layne-Atlantic Company Mailing Address: P. O. Box 7095, Norfolk, VA 23509

WELL LOCATION: County Norfolk Approx. _____ ^{feet}/_{miles} (direction) of _____
and _____ ^{feet}/_{miles} (direction) of _____

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

DATE STARTED: June 13, 1966 DATE COMPLETED: July 15, 1967

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 75* feet

WATER LEVEL: Stands 12 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Test-pumped
Drawdown 60 feet
Rate 30 gal. per min.
Duration 8 hrs., 0 min.

HOLE SIZE: 13 inches from 0 to 75 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 63 to 68 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from 63 to 68 feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 63 feet

6 inches from 68 to 75 feet

_____ inches from _____ to _____ feet

WATER: Color clear Taste good
Odor none Temp. ND °F

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

GROUTING: Method Pressure pumped 50'

Material cement Depth 50 feet

PUMP: Type Turbine

Capacity 35 gal. per min

Depth of intake 63 feet

WATER ANALYSIS AVAILABLE: Yes No _____

DRILL CUTTINGS SAVED: Yes 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: Pump is equipped with gear drive and gasoline engine.

* Pilot hole to 125'

LOG

FURNISHED BY: Layne-Atlantic Company

DATE: August 16, 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	2	Yellow clay	
2	10	Yellow sand	
10	23	Blue clay, shell, some sand	
23	33	Blue clay, shell and sand	
33	43	Clay, shell and sand	
43	53	Sand	
53	64	Blue clay	
64	74	Clay, some sand	
74	84	Sand	
84	95	Clay, hard, some sand	
95	105	Same as above	
105	107	Some sand	
107	112	Sand	
112	115	Sand and hard clay	
115	125	Clay	

