

OWNER: National Park Service
(Toms Cove, Test Well #2)
DRILLER: Ideal Well Drillers
COUNTY: Accomack (Assateague Island)

VDMR: 2173
WWCR: 332
TOTAL DEPTH: 300'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-31')

- 0-5 Sand — tan, clean; medium-grained, fairly well-sorted, subrounded to rounded; abundant and varied assemblage of rounded, non-micaceous, "heavy" minerals; traces of feldspar and chert
- 5-10 " medium - to coarse-grained, moderately-sorted
- 10-17 " "
- 17-19 Sand — gray, clean; medium- to coarse-grained, moderately-sorted, subrounded to rounded; a very few shell fragments and rock fragments; "heavy" minerals common
- 19-21 Sand — speckled brown and gray, clean; coarse- to very coarse-grained, well-sorted (skewed coarse), rounded, clear and deeply-stained (orange to brown) quartz; a very few shell and rock fragments
- 21-31 " medium- to very coarse-grained; medium fraction is subangular to subrounded, clear quartz

YORKTOWN FORMATION (31-300')

- 31-47 Sand — gray, slightly clayey; fine-grained, fairly well-sorted, angular to subangular; clear quartz, with accessory muscovite, magnetite, glauconite and hornblende; a few small shell fragments; a few foraminifers
- 47-60 " fine- to very fine-grained, well-sorted; a few echinoid spines
- 60-65 " "
- 65-70 " "

70-80	Sand — gray, clayey, 5% small shells and shell fragments, mostly pelecypods and a few gastropods; medium- to very fine-grained, fairly well-sorted, angular to sub-angular; accessory muscovite, magnetite, hornblende, glauconite, and garnet; a few foraminifers and ostracods
80-90	"
90-100	"
100-120	"
120-130	"
130-140	"
140-150	Sand — greenish-gray, clayey; fine- to medium-grained, well-sorted, angular, slightly glauconitic; hornblende and mica common; a few shell fragments and foraminifers
150-160	"
160-170	"
170-180	" fine- to coarse-grained, very slightly glauconitic
180-190	" fine- to coarse-grained, very slightly glauconitic; 10% shell fragments
190-200	" fine- to coarse-grained, trace of glauconite; 10% shell fragments
200-215	Sand — gray, slightly- to moderately-clayey; fine- to medium-grained, well-sorted, angular to subrounded; trace of glauconite
215-221	No sample
221-230	Sand — gray, slightly- to moderately-clayey; fine- to medium-grained, well-sorted, angular to subrounded; trace of glauconite

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230-249	Sand — gray, slightly- to moderately-clayey; fine- to medium-grained, well-sorted, angular to subrounded; trace of glauconite
249-260	"
260-285	"
285-300	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-31'	Columbia Group	Pleistocene
31-300'	Yorktown Formation	Late Miocene

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
May 31, 1968

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COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: National Park Ser., Seashore Park Mailing Address: Assateague Island National Seashore ^{Park}

TENANT: Toms Cove, Test well #2 Mailing Address: National Park Svc., P.O. Box 345 Berlin Md., 21811

DRILLER: ~~_____~~ **Ideal Well Drillers** Mailing Address: Salisbury, Md.
Salisbury, Maryland

WELL LOCATION: County Accomack Approx. 400 ^{feet}/_{miles} west (direction) of U.S. Coast Guard Station at south tip of Assateague and Island ^{feet}/_{miles} 37 south (direction) of Assateague Light House

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

DATE STARTED: 3/18/68 DATE COMPLETED: 3/22/68

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 300 feet

WATER LEVEL: Stands 31 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method None
Drawdown _____ feet
Rate 50-80 (Est. - Cushing 10/30/69) gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 300 feet
6 inches from 37 to 300 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 40 to 47 feet
from 65 to 70 feet
from 190 to 200 feet
215 220

SCREEN SIZE: 6 inches from _____ to _____ feet
6 inches from _____ to _____ feet
_____ inches from _____ to _____ feet

CASE SIZE: 12 inches from +0.5 to 37 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color Muddy Taste _____
Odor _____ Temp. _____ °F

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

GROUTING: Method None
Material _____ Depth _____ feet

PUMP: Type None, hole back-filled and abandoned
Capacity _____ gal. per min
Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes No (65-70' zone)
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: Old U.S. Coast Guard Station well 400' east of this well, completed by R.C. Scott in 1955: 2" x 264', static level 3.3', pumped 15 gpm for 1 1/2 hrs. with 29' of drawdown using suction ditch pump. Driller claims 12' to 16' of Clayton Mark screen on bottom; tape hung-up by 1/4" increments from 244' to 186'. Water sample (LOG OF WELL) OVER