

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