

OWNER: Green Giant Company
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Northampton (Exmore)

VDMR: 1837
WWCR: 230
TOTAL DEPTH: 250'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-110')

0-10	Sand - light-gray, trace of clay; medium- to coarse-grained, fairly well-sorted, subrounded to rounded; clear quartz, with subordinate , slightly to moderately decomposed perthitic feldspar; small amounts magnetite and garnet; trace of brown epidote
10-20	" "
20-30	" "
30-40	" "
40-50	" "
50-60	" "
60-70	" "
70-80	" "
80-90	" slightly to moderately clayey (clay is light-gray to white, calcareous); trace of shell
90-100	Sand - light- to medium-gray, very slightly clayey; 75% medium- to coarse-grained, fairly well-sorted sand; 20% very coarse-grained sand to granules, well-sorted; slightly subangular to rounded; 5% shell fragments
100-110	" "

YORKTOWN FORMATION (110-250')

110-120	Sand - dull brownish-gray, moderately clayey, a few granules; fine- to coarse-grained, moderately sorted, subangular to rounded; minor magnetite and feldspar; traces epidote and glauconite; 2-5% shell fragments; a very few foraminifers
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- 120-130 Sand - dull brownish-gray, moderately clayey, a few granules; fine- to coarse-grained, moderately sorted, subangular to rounded; minor magnetite and feldspar; traces epidote and glauconite; 2-5% shell fragments; a very few foraminifers; moderately clayey to clayey
- 130-140 Sand - medium-gray, clean, trace of granule gravel; fine- to medium-grained, well-sorted (skewed fine), angular to subangular; clear quartz; traces of feldspar (coarser grains), magnetite, and glauconite
- 140-150 Sand - medium-gray, trace of clay; fine- to coarse-grained, rather poorly sorted, variably rounded; minor feldspar; traces of magnetite, glauconite, garnet; trace of shell
- 150-160 " very slightly glauconitic
- 160-170 Sand and Gravel - clean (no mud); sand (50-60%) is fine- to very coarse-grained, poorly sorted, poorly rounded; gravel (40-50%) is fine-grained (2-5 mm), well-sorted, rounded; very slightly glauconitic; trace of magnetite; a few shell fragments, gastropods and phosphorite granules
- 170-180 Sand - brownish-gray, trace of clay; fine-to medium-grained, fairly well-sorted, angular; very slightly glauconitic; 2-5% shell fragments
- 180-190 " "
- 190-200 Shell - well-sorted (0.5 - 2.0 mm) abraded shell fragments and a few echinoid spines; admixture of 20% poorly sorted, angular quartz sand
- 200-210 " "
- 210-220 " "
- 220-230 " "
- 230-240 " 30-35% sand; trace of glauconite
- 240-250 " " "

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GEOLOGIC SUMMARY

	Rock Unit	<u>Age</u>
0-110'	Columbia Group	Pleistocene
110-250'	Yorktown Formation	Late Miocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
September 22, 1967