

OWNER: Mr. W. D. Jenkins
DRILLER: Sydnor Pump & Well Company, Inc.
COUNTY: Mathews (Gwynns Island)

VDMR #1103
WWCR #3
TOTAL DEPTH: 157'

GEOLOGIC LOG

Columbia Group (0-130')

- 0-10 Sand — buff with violet cast; medium-grained, well-sorted; dominately subangular but a considerable percent consists of very well-rounded, near-spherical clear grains; considerable amount of collophane (and epidote ?).
- 10-20 Sand — buff to white; medium- to very-coarse-grained; subangular to subrounded but a considerable percent consists of very-well-rounded, limpid grains; small amount of collophane (?) and epidote.
- 20-25 No sample.
- 25-30 Sand — dark-gray; fine- to medium-grained; subangular; small amount small gravel; argillaceous; small amount of collophane (?) and epidote; large amount shell material, some chitino-phosphatic clams and oysters.
- 30-40 Sand — brown; fine- to medium-grained; subangular to subrounded; small amount collophane (?); argillaceous - much of clay content present as discrete, durable, dark-gray to black, sand-free chunks; moderate amount shell material.
- 40-50 Clay — dark-gray; very sandy, sand poorly sorted, subangular to subrounded; slightly ferruginous; small amounts of partially devitrified collophane and epidote; clay and sand in subequal amounts.
- 50-60 Clay — dark-gray; sandy, sand very-fine-grained, well-sorted, subangular; slightly ferruginous and micaceous (muscovite); small amount chitino-phosphatic shell material.
- 60-70 Sand — dark-gray; fine- to medium-grained; fairly well-sorted; subangular; argillaceous; moderately glauconitic; small amount of nodular collophane and green clay; abundant shell fragments, much of which is black, chitino-phosphatic.
- 70-80 As above.
- 80-90 Sand — gray; fine- to medium-grained; subangular; argillaceous; slightly glauconitic; small amount nodular collophane; very abundant shell material, mostly clams; some chitino-phosphatic shell fragments.

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- 90-100 Sand — gray; fine- to medium-grained; subangular; fairly argillaceous; slightly glauconitic; a small amount nodular collophane; abundant shell fragments including some chitino-phosphatic.
 - 100-110 Sand — gray; medium-grained; subangular to subrounded; abundant admixed dune sand - well-rounded, frosted grains; fairly argillaceous; slightly glauconitic; abundant shell fragments, some chitino-phosphatic.
 - 110-120 As above.
 - 120-130 Sand — gray, fine- to medium-grained; well-sorted; subangular (small amount admixed dune sand, well-rounded, frosted grains); slightly silty and argillaceous; small amounts of glauconite and collophane; small amount shell material, some chitino-phosphatic; abundant calcareous sponge spicules.
- Yorktown Formation (130-150')
- 130-140 Sand — dark-gray; fine- to medium-grained; subangular; moderately argillaceous; small amounts of glauconite and of collophane (?) pellets; small amount shell material, a few calcareous sponge spicules.
 - 140-150 Sand — gray; fine-grained; fairly well-sorted; subangular; slightly argillaceous; small amounts of glauconite and collophane; moderate amount shell material - more sponge spicules than preceding sample.
 - 150-157 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-130	Columbia Group	Pleistocene
130-150	Yorktown Formation	Miocene
150-157	No sample	

Virginia Division of Mineral Resources
 Robert H. Teifke, Geologist
 October 29, 1964