

OWNER: Smith-Douglas Company
DRILLER: Layne-Atlantic Company
COUNTY: Norfolk

VDMR #1290
WWCR #153
TOTAL DEPTH: 146'

GEOLOGIC LOG

0-38 No sample.

Yorktown Formation (38-146')

38-48 Shell Marl — bluish-gray pelecypod shell fragments in a matrix of quartz sand and brownish-gray calcareous clay, and a few small pebbles; sand fraction fine- to coarse-grained, poorly sorted, angular to subrounded clear quartz, minor amounts of muscovite, leached biotite, medium- to light-green glauconite, and carbonaceous particles, smaller amounts of fresh green hornblende and euhedral magnetite, and occasional grains of staurolite and hematite after magnetite; an indeterminable amount of feldspar present, some of which is chloritized and saussuritized calcic to intermediate plagioclase; the relatively large amount of fresh, clear, euhedral, green epidote present also indicates the (former ?) presence of plagioclase; a few echinoid spines, ostracods, and small trochoid gastropods.

48-58 As above.

58-68 As above.

68-78 As above.

78-98 As above.

98-108 As above.

108-118 As above.

118-128 As above.

128-146 As above.

Note: Amount of small gravel varies from level to level, but remains small.

GEOLOGIC SUMMARY

<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-38 No sample	
38-146 Yorktown Formation	Miocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
April 7, 1965