



OWNER: Texaco Company (E. Mueller)  
DRILLER: Mitchell's Well & Pump Company  
COUNTY: Henrico (Richmond)

VDMR: 1840  
WWCR: 190  
TOTAL DEPTH: 189'

GEOLOGIC LOG

Depth in feet

CHESAPEAKE GROUP (0-80)

- 0- 10 Sand — yellowish-brown, moderately clayey, a few small pebbles; fine- to very fine-grained, well-sorted, angular; traces of muscovite, magnetite, glauconite, and decomposed feldspar.
- 10- 20 Sand — medium-gray, clayey and silty; fine-grained, fairly well-sorted, angular; small amounts of glauconite, muscovite, and decomposed feldspar; sandstone fragments, vein quartz and copper-iron sulfides common.
- 20- 30 Sand — medium-gray, clayey, silty; very fine-grained, fairly well-sorted (about 10% coarse-grained sand), angular; traces of muscovite, glauconite, phosphorite; sandstone fragments with associated vein quartz and copper-iron sulfides common.
- 30- 40 "
- 40- 50 Sand — light-gray, clayey; fine- to coarse-grained, rather poorly-sorted, subangular to subrounded; small amounts of feldspar, glauconite, and muscovite; sandstone fragments with associated vein quartz and copper-iron sulfides common.
- 50- 60 Sand — dark-gray, clayey; very fine- to very coarse-grained, poorly sorted, poorly rounded; very slightly glauconitic, slightly micaceous; sandstone fragments with associated vein quartz and copper-iron sulfides common.
- 60- 70 " trace of pyrite; a very few foraminifers.
- 70- 80 " "

POTOMAC GROUP (80-189)

- 80- 90 Sand — light-gray, moderately clayey, a few rounded pebbles (up to 20 mm) of quartz and quartzite; fine- to coarse-grained, poorly sorted, poorly rounded; traces of muscovite, glauconite; slightly to moderately feldspathic.

90-100	Sand — very light-gray, clayey; medium- to very coarse-grained, moderately sorted; angular to subrounded; feldspathic, slightly glauconitic and lithic (sandstone, quartzite, chert); trace of copper-iron sulfides.
100-110	" 5-10% granule gravel.
110-120	Sand — light brownish-gray, very clayey, a few pebbles; medium- to very coarse-grained, moderately sorted, angular to subangular; feldspathic, slightly micaceous and lithic (chert, sandstone, basalt); traces of glauconite, fish teeth; trace of copper-iron sulfides.
120-130	"
130-140	"
140-150	"
150-160	Sand — pale brownish-gray, very clayey; medium- to very coarse-grained, rather poorly-sorted, subangular to subrounded; minor garnet; traces of sulfides, muscovite, and glauconite.
160-170	Clay — medium bluish-gray, very sandy; sand is medium- to very coarse-grained, moderately sorted, subangular to slightly subrounded; clay is chloritic; sand is slightly to moderately feldspathic; traces of garnet and detrital chlorite.
170-180	"
180-189	Sand — brownish-gray, fairly clear, a few small pebbles; medium- to very coarse-grained, moderately sorted, poorly rounded; moderately feldspathic; traces of garnet, micas, and plutonic rock fragments.

#### GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0- 80	Chesapeake Group	Miocene
80-189	Potomac Group	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke - Geologist  
April 5, 1967