

OWNER: 4-H Camp
DRILLER: O. C. Brenneman
COUNTY: James City County

VDMR: #190
WWCR: # 16
TOTAL DEPTH: 280'

GEOLOGIC LOG

Depth
(feet)

YORKTOWN FORMATION (50-150')

- 0-50 No sample.
- 50 Sand, gray; minor silt; medium; moderate sorting; subangular; trace of glauconite; Nonion, Siphogenerina; trace of gypsum needles; abundant shell fragments.
- 50-70 Sand, gray; minor silt; medium; moderate sorting; subangular to subrounded; trace of glauconite and subangular to subrounded; trace of glauconite and gypsum needles; Nonion, Siphogenerina; abundant shell fragments.
- 70-90 Sand, gray; minor silt; medium; moderate sorting; subrounded; trace of glauconite and gypsum; Nonion, Siphogenerina, Robulus, abundant shell fragments.
- 90-110 Sand, gray; minor silt; medium; moderate sorting; subrounded; trace of glauconite and gypsum; Robulus, Siphogenerina; abundant shell fragments.
- 110-130 Sand, gray; minor silt; medium; moderate sorting subrounded; trace of glauconite and gypsum; Siphogenerina, Nonion; abundant shell fragments.
- 130-150 Sand, gray; minor silt; medium; moderate sorting; subrounded; trace of glauconite and gypsum; Siphogenerina; abundant shell fragments.

CALVERT FORMATION (150-230')

- 150-170 Sand, greenish gray; minor silt; fine; moderate sorting; subrounded; about 20% glauconite; Nonion, Robulus; trace of gypsum; abundant shell fragments.
- 170-190 Sand, green; medium; moderate sorting; rounded; 90% glauconite; chips of magnetite.

OWNER: 4-H Camp

W-#190

Depth
(feet)

190-215 Sand, grayish green; medium; moderate to poor sorting; rounded; 90% glauconite; Robulus; chips of magnetite; some pebbles.

215-230 Sand, green; minor clay; medium to coarse; poor sorting; rounded; 90% glauconite.

NANJEMOY FORMATION (230-273')

230-250 Sand, grayish green; minor silt and clay; medium; poor sorting; subangular; 80% glauconite; some shell fragments; calcite cemented grains.

250-273 Sand, grayish green; minor clay; medium; moderate sorting; subrounded 90% glauconite; some shell fragments; calcite cemented grains.

273-280 No sample.

Virginia Division of Mineral Resources
C. R. Berquist
16 May 1978

OWNER: 4-H Camp
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COUNTY: James City County (Jamestown)

VDNR #0190
WNCR # 16
Depth: 280'

See WSP 1361 - p. 144

SAMPLE EXAMINATION
(washed)

- 40-170 Sand quartz fine grained, angular, abundant clay, with shell fragments. Foraminifera 70-90; 130-140; slightly glauconitic 130-170.
- 170-190 No sample
- 190-230 Clay, gray, slightly calcareous, very glauconitic ranging to argillaceous glauconite at base
- 230-250 Sand, glauconite and quartz, very argillaceous with shell fragments
- 250-273 Sand, predominantly glauconite with abundant clay and shell fragments

GEOLOGIC SUMMARY

Undifferentiated, but probably MIOCENE down to approximately 130'.

VIRGINIA DIVISION OF MINERAL RESOURCES
WILLIAM DUDLEY, GEOLOGIST
October 1958