

OWNER: U. S. Naval Proving Grounds #2
DRILLER: J. T. Ellington
COUNTY: King George (Dahlgren)

VDMR # 367
WWCR # 21
TOTAL DEPTH : 820'

GEOLOGIC LOG

Columbia group (12-30)

12 Clay - gray to brown, slightly sandy and silty

Pamunkey group (30-315)

30 Sand - light gray, medium to fine grained, angular to subangular, slightly silty, trace of glauconite

45 Sand - gray to green, fine grained, angular to subangular, very glauconitic, slightly silty, trace of mica

60 Sand - gray to green, fine grained, angular, very silty and glauconitic, slightly micaceous, trace of shell fragments and vivianite

75 Silt - gray to green, very glauconitic and argillaceous, slightly micaceous, trace of shell fragments

90 Sand - gray to green, medium to fine grained, angular to subangular, very silty and glauconitic, slightly micaceous and argillaceous, trace of shell fragments

120 As above

121 Sand - buff to light brown, coarse to fine grained, angular to subangular, very silty

135 Sand - gray to green, fine grained, angular, very silty and glauconitic, slightly micaceous and argillaceous

140 Clay - tan with red and brown mottles, slightly sandy and silty, trace of glauconite

150 Sand - gray to green, fine grained, angular, very silty and glauconitic, slightly micaceous and argillaceous, trace of shell fragments

165 Silt - gray, very sandy and argillaceous, slightly glauconitic, trace of mica and shell fragments

180 Silt - gray to green, very sandy and glauconitic, slightly argillaceous, trace of mica and shell fragments

OWNER: U. S. Naval Proving Grounds #2 - (continued)

- 195 Clay - buff to tan, very silty, trace of mica and sand
- 210 Sand - gray to green, medium to fine grained, angular to subangular, very argillaceous (pink) and glauconitic, slightly silty, trace of shell fragments
- 255 Sand - gray to green, fine grained, angular, very silty and glauconitic, slightly argillaceous (pink), trace of shell fragments.
- 285 ? Sand - gray to green, fine grained, angular, very glauconitic, slightly silty and argillaceous, large number of shell fragments
- 300 Sand - gray, coarse to fine grained, angular to subangular, very argillaceous and silty, slightly glauconitic, trace of shell fragments, small number of pebbles
- 315 As above
- Potomac group (330-800)
- 330 Sand - gray, coarse to fine grained, angular to subangular, slightly glauconitic and arkosic, trace of silt and shell fragments
- 345 Sand - gray, coarse to fine grained, angular to subangular, slightly glauconitic, arkosic, argillaceous (pink) and silty, trace of shell fragments
- 360 Clay - pink, with red and gray mottles, slightly glauconitic, sandy, and silty
- 375 Sand - gray to brown, coarse to fine grained, angular to subangular, very silty, slightly glauconitic, arkosic, argillaceous, small number of shell fragments and quartz granules
- 390 Sand - brown, coarse to fine grained, angular to subangular, very silty and argillaceous, slightly glauconitic, small number of shell fragments and quartz granules
- 420 ? Sand - brown, coarse to fine grained, angular to subangular, very silty and argillaceous, slightly glauconitic and arkosic, small number of shell fragments and quartz granules

OWNER: U. S. Naval Proving Grounds #3 - (continued)

- 435 Clay - brown, with gray and red mottles, slightly silty, sandy, and glauconitic
- 470 Clay - brown, with red mottles, slightly sandy, trace of glauconite and silt
- 500 ? Sand - brown, coarse to fine grained, angular to subangular, slightly glauconitic, silty, argillaceous, and arkosic
- 515 Clay - buff, with red and brown mottles, very silty and sandy, trace of glauconite and shell fragments
- 530 As above
- 545 Clay - varicolored, very sandy, slightly silty, trace of glauconite and shell fragments
- 560 Clay - brown, very sandy and silty, slightly glauconitic, trace of shell fragments
- 575 Clay - brown, very silty, slightly sandy, trace of glauconite
- 590 Clay - varicolored, very sandy, slightly glauconitic
- 605 Clay - gray, with red and brown mottles, trace of sand
- 620 As above
- 635 Clay - varicolored, very sandy, slightly glauconitic
- 650 Clay - varicolored, slightly sandy, trace of glauconite
- 665 Clay - brown, with red and gray mottles, slightly sandy and silty, trace of glauconite
- 680 Sand - gray to brown, coarse to medium grained, angular to subangular, slightly arkosic and argillaceous, trace of glauconite
- 695 Sand - gray to brown, coarse to medium grained, angular to subangular, slightly arkosic and argillaceous, trace of glauconite and silt
- 710 Clay - brown, with gray and red mottles, very sandy and silty, slightly glauconitic, trace of shell fragments

OWNER: U. S. Naval Proving Grounds #2 - (continued)

770 ? Sand - gray, coarse to fine grained, angular to subangular, very argillaceous and arkosic, slightly glauconitic, trace of shell fragments

785 Sand - light gray, coarse to fine grained, angular to subangular, very arkosic, slightly glauconitic, trace of clay, silt, and mica

800 Sand - gray, coarse grained, angular to subangular, very arkosic, very argillaceous and silty, trace of shell fragments

800-820 No sample

GEOLOGIC SUMMARY

	<u>AGE</u>	<u>ROCK UNIT</u>
12-30	Pleistocene	Columbia group
30-315	Eocene	Pamunkey group
330-800	Lower Cretaceous	Potomac group

Virginia Division of Mineral Resources
James L. Ruhle - Geologist
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