

OWNER: C. M. Beale
DRILLER: R. L. Magette
COUNTY: Isle of Wight (Smithfield)

VDMR # 761
WWCR # 196
TOTAL DEPTH : 510

SAMPLE DESCRIPTION
(Washed Samples)

PLEISTOCENE (0-65)

- 0-2 Sand - light yellow, quartz, fine to coarse grained, subangular to subrounded, poorly consolidated, trace of muscovite and feldspar
- 2-40 Sand - light yellow, quartz, medium to coarse grained, subangular to subrounded, poorly consolidated, trace of feldspar, slight trace of iron oxide
- 40-65 Sand - light gray, quartz, medium to very coarse grained, subangular to subrounded, poorly consolidated, trace of feldspar, slight trace of iron oxide

MIOCENE (65-354)

- 65-97 Sand - medium gray, quartz, medium to coarse grained, subangular to rounded, poorly consolidated, argillaceous, trace of feldspar and shell fragments, slight trace of iron oxide
- 97-120 Sand - medium gray, quartz, medium to coarse grained, subangular to subrounded, poorly consolidated, argillaceous, 10% shell fragments, trace of feldspar
- 120-138 Sand - medium gray, quartz, fine to coarse grained, subangular to subrounded, loosely consolidated, argillaceous, 5% shell fragments, trace of feldspar, slight trace of heavy minerals
- 138-146 Sand - medium gray, quartz, fine to coarse grained, subangular to subrounded, loosely consolidated, argillaceous, 5% shell fragments, trace of feldspar, slight trace of glauconite
- 146-240 Sand - medium gray, quartz, fine grained with some small pebbles, subangular to subrounded, loosely consolidated, very argillaceous, 20% shell fragments, 2% weathered glauconite, trace of feldspar and pyrite
- 240-260 As above
- 260-280 Sand - medium gray, quartz, fine grained to very coarse grained, subangular to subrounded, loosely consolidated, very argillaceous, 40% weathered glauconite, 30% quartz, 15% clay, and 10% shell fragments

OWNER: C. M. Beale (continued)

#761

280-354 Sand - medium gray, quartz, fine to coarse grained, subangular to subrounded, loosely consolidated, argillaceous, trace of shell fragments and feldspar, slight trace of iron oxide and glauconite

Eocene (354-510)

354-382 Sand - dark green and white, 80% glauconite, 17% quartz, subangular to subrounded, loosely consolidated, trace of shell fragments

382-396 Sand - medium gray to dark green, 80% quartz, 15% glauconite, subangular to subrounded, loosely consolidated, trace of feldspar and shell fragments

396-422 Sand - light gray, quartz, medium grained to granules, subangular to subrounded, loosely consolidated, argillaceous, sericitic, trace of feldspar and shell fragments, slight trace of glauconite and iron oxide

422-454 Sand - light gray, quartz, medium to coarse grained, subangular to subrounded, loosely consolidated, argillaceous, 5% glauconite, trace of feldspar and shell fragments

454-490 Sand - light gray quartz, medium to very coarse grained, subangular to subrounded, loosely consolidated, argillaceous, sericitic, 1% glauconite, 1% shell fragments, trace of feldspar, slight trace of iron oxide

490-510 As above

GEOLOGIC SUMMARY

	<u>AGE</u>	<u>ROCK UNIT</u>
0-65	Pleistocene	Columbia group
65-354	Miocene	Chesapeake group
354-510	Eocene	Pamunkey group

Virginia Division of Mineral Resources
Merrick S. Whitfield - Geologist
January 7, 1963