





OWNER: City of Newport News  
Bacons Castle Test #1  
DRILLER: Layne-Atlantic  
COUNTY: Surry

W#: 230  
C#: 54  
TOTAL DEPTH: 1060'

GEOLOGIC LOG

Depth  
(feet)

0-307 NO SAMPLE.

MATTIPONI FORMATION (307'+)

307 Sand - dark green; washed; medium to coarse grained; rounded; moderately well sorted; 95% glauconite (green mostly); quartz; few limestone and shell fragments; few forams (inc. Siphogenerina and Nonion).

308-351 NO SAMPLE.

PATUXENT FORMATION (351'+ - 579'+)

351 Sand and clay - gray, some buff clay; washed; fine with some medium to coarse grained; subangular to subrounded; moderately sorted; quartz; 15% glauconite; 7% shell and limestone fragments; some feldspar; some phosphatic material; spines; forams (inc. Nonion, Discorbis, Buccella and Quinqueloculina).

352-355 NO SAMPLE.

355 Sand - light gray; medium grained with a few granules; subangular to subrounded; well sorted; quartz; feldspar; 5% glauconite; muscovites; some limestone and shell fragments; few forams.

356-374 NO SAMPLE.

374 Sand - gray; abundant clay; medium to coarse grained with some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 7% glauconite; 7% shell and limestone fragments; muscovite; few forams.

375-394 NO SAMPLE.

394 Sand and clay - gray salt and pepper; fine to coarse grained; subangular to rounded; poorly sorted; quartz; feldspar; 22% glauconite; shell and limestone fragments; spines.

395-415 NO SAMPLE.

415 Sand - off white; washed; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; gr

Depth  
(feet)

- 415 Sand - off white; washed; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; trace glauconite; garnet; few shell fragments.
- 416-417 NO SAMPLE.
- 417 Sand - off white; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; garnet; few quartz and siltstone pebbles; few glauconite grains.
- 418-421 NO SAMPLE.
- 421 Sand - brownish grain; moderately clayey; coarse grained; few shell fragments; few glauconite grains.
- 422-442 NO SAMPLE.
- 442-443 Sand - yellowish white; abundant clay; fine to very coarse with a few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few shell fragments.
- 444-557 NO SAMPLE.
- 557-579 Sand and clay - white to yellowish white; abundant clay; medium to very coarse with a few granules and pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few glauconite grains.
- 580-1060 NO SAMPLE.

GEOLOGIC SUMMARY

<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
307	NO SAMPLE	
1 <sup>+</sup>	Mattiponi Formation	Eocene-Cretaceous
43	NO SAMPLE	
228 <sup>+</sup>	Patuxent Formation	Cretaceous

Virginia Division of Mineral Resources  
David A. Hubbard, Jr., Geologist  
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