

OWNER: Burgess Store
DRILLER:
COUNTY: Northumberland

VDMR: 206
WWCR: 106
TOTAL DEPTH: 595' (?)

GEOLOGIC LOG

Depth in feet

- 0-150 No samples
- 150-170 Sand - grayish-brown, slightly clayey; fine-grained, very well-sorted, angular to subangular; traces of mica, glauconite
- 170-288 No samples
- 288-293 Sand - gray (washed sample); fine- to medium-grained, fairly well-sorted, angular to subangular; about 60% clear quartz, and 40% shell material, including 2-5% brown phosphatic fragments (vertebrate and invertebrate); shell debris consists mostly of pelecypod fragments, a few gastropod fragments, and abundant microfossils. with foraminifers much more abundant than ostracods
- 293-298 No sample
- 298-310 Sand - gray (washed sample); fine- to medium-grained, fairly well-sorted, angular to subangular; about 60% clear quartz, and 40% shell material, including 2-5% brown phosphatic fragments (vertebrate and invertebrate); shell debris consists mostly of pelecypod fragments, a few gastropod fragments, and abundant microfossils; with foraminifers much more abundant than ostracods; slightly to moderately diatomaceous
- 310-332 No samples
- 332-352 Sand - brownish-gray, moderately clayey; fine- to very fine-grained, well sorted, angular; about 10% shell debris mostly pelecypod fragments; foraminifers moderately abundant; echinoid spines, Siphogenerina, Nonion; diatomaceous
- 352-354 No sample
- 354-374 Sand - gray, clean; medium-grained, well-sorted, angular to subangular; clear quartz with about 10% shell fragments; combined glauconite and black phosphatic material constitute about 2% of the sediment; small foraminifers and ostracods abundant

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- 374-394 Clay - brownish-gray, slightly sandy (fine-grained, well-sorted, angular clear quartz); about 5% shell debris, consisting of pelecypod fragments, echinoid spines, and very abundant foraminifers; diatomaceous
- 394-447 No samples
- 447-457 Sand - (washed sample) speckled green, white, yellow-brown; coarse-grained, well-sorted; 50% angular to well-rounded quartz, very clear to deeply stained (yellow, orange, brown, green); 40% glauconite (black, greens, yellow, brown); 10% shell fragments, mostly pelecypods, with a few bryozoans and poorly preserved foraminifers and ostracods
- 445-465 Sand - black, clean; fine- to medium-grained, well-sorted; 75% fresh to slightly weathered glauconite, 15% clear, angular gypsum, and 10% glauconite-stained quartz; abundant foraminifers and a few ostracods and microfossil fragments
- 465-475 " 65% fresh glauconite, 25% green-stained quartz, and 10% clear, angular gypsum
- 475-495 No samples
- 495-516 Sand - green, slightly clayey and silty (angular quartz); fine- to coarse-grained, rather poorly sorted; 95% dark- to light-green glauconite, and 5% coarse-grained, clear quartz; a few foraminifers and shell fragments
- 516-536 Sand - greenish-gray, slightly clayey (gray clay); medium- to coarse-grained, fairly well-sorted; 65% subangular to sub-rounded quartz, and about 35% dark-green glauconite; a few shell fragments and foraminifers
- 536-537 No samples
- 537-560 Sand - greenish-gray, slightly to moderately clayey; medium- to very coarse-grained, rather poorly sorted; about 15% glauconitic clay, 40% dark to light-green glauconite, 40% clear and stained variably rounded quartz, and 5% shell fragments; a very few foraminifers
- 560-585 Sand - green, very clayey; fine- to coarse-grained, moderately sorted; subequal amounts of quartz and dark-green glauconite; 5-10% shell fragments; a few foraminifers

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585-595 Sand - greenish-gray, clayey; fine- to very fine-grained, well-sorted; 65% dark to light-green glauconite, 20% grains of soft yellow-carbonate (comminuted shell?) and 15% quartz; very small foraminifers rather abundant but poorly preserved

NOTE: No rational stratigraphic interpretation could be made: samples were probably inadvertently mixed up during sampling and/or handling.

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
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