OWNER: Union Camp Company, well #14

DRILLER: Layne-Atlantic Company

COUNTY: Isle of Wight (Franklin)

VDMR: 1640 WWCR: 203 TOTAL DEPTH: 878'

GEOLOGIC LOG

Depth (feet)

COLUMBIA GROUP (0-25')

0 - 25 Clay — mottled-gray and orange-brown, slightly silty and sandy.

CHESAPEAKE GROUP (25-155')

- 25 68 Sand buff, slightly silty and argillaceous; fine- to medium grained, well sorted, angular to subangular; slightly feldspathic; traces of muscovite, glauconite, and lignite.
- 68 95 Sand gray, moderately argillaceous (buff clay); medium- to coarse-grained, fairly well-sorted, subangular to subrounded; slightly feldspathic; trace of glauconite.
- 95 155 Sand gray, clean; medium grained, well-sorted, subangular; trace of phosphorite; about 5% shell fragments.

PAMUNKEY GROUP (155-312')

- Limestone gray to buff, contains abundant quartz-glauconite sand, and fine, rounded quartz gravel; both fresh and oxidized glauconite abundant; pyrite locally abundant; shell material moderately abundant (pelecypods, gastropods, bryozoans, corals, fish teeth, and a few foraminifers and ostracods).
- Sand black, silty and argillaceous ("dirty"); fine- to very fine-grained, well-sorted; 50% fresh glauconite, and 50% clear to green angular quartz; foraminifers, ostracods, fine shell fragments, and echinoid spines moderately abundant.
- Sand and Limestone sand (50%) is dark gray, moderately argilla ceous (pinkish-brown clay); medium grained, fairly well-sorted; 60-70% fresh glauconite, and 30-40% poorly rounded quartz; a few foraminifers and ostracods. Limestone (50%) is gray to buff, sandy (glauconitic), containes abundant quartz granule gravel, pelecypods, gastropods, corals, bryozoans, pyrite concentrations, and a few phosphate nodules.
- 234 275 Sand black, trace of clay; medium grained, well sorted; fresh glauconite with about 20% quartz and a very few large Aquia foraminifers.

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POTOMAC GROUP (312-812')

812 - 878

No samples

312 - 338	Sand — brownish gray (speckled) very slightly silty and argillaceous; medium- to coarse-grained, moderately sorted, subangular to subrounded; 80-85% quartz, and 15-20% fresh glauconite; slightly arkosic; trace of muscovite.	
338 - 460	Sand — brown, very slightly-argillaceous; coarse- to very coarse-grained, well sorted, subangular to subrounded; slightly arkosic; 5-10% glauconite; traces of garnet and muscovite.	
460 - 513	Sand and Gravel — reddish brown, moderately argillaceous (reddish clay), 20-30% granule gravel; medium to very coarse-grained, fairly well-sorted (skewed coarse), subangular to subrounded; moderately arkosic; very slightly glauconitic; a very few shell fragments.	
513 - 600	Sand — brownish gray ("salt-and-pepper"), very silty; fine to coarsegrained, rather poorly-sorted; moderately arkosic and glauconitic.	
600 - 700	Sand — brown; very slightly-argillaceous, 10-20% granule gravel; coarse to very coarse-grained, fairly well-sorted; moderately arkosic; slightly glauconitic.	
700 - 722	Sand — brown, slightly argillaceous; medium to corase-grained, well sorted, subangular to subrounded; moderately arkosic; very slightly glauconitic.	
722 - 812	11	
812 - ?	11	
812 - 878	No samples	
0 - 25 25 - 155 155 - 312 312 - 812	ROCK UNIT Columbia Group Chesapeake Group Pamunkey Group Potomac Group	AGE Pliocene-Pleistocene Miocene Eocene Early Cretaceous

Virginia Division of Mineral Resources Robert H. Teifke - Geologist August 9, 1966