



OWNER: State of Virginia (Jordon Point River Bridge)  
DRILLER: Sydnor Pump and Well Co., Inc.  
COUNTY: Prince George (Hopewell)

VDMR #1466  
WWCR #156  
TOTAL DEPTH: 174'4"

### GEOLOGIC LOG

- 0-57 No sample.
- Potomac Group (57-174'4")
- 57-62 Gravel — dull-brownish-gray; subrounded pebbles (up to 20 mm) of quartz and quartzite, very-coarse-grained sand; moderately micaceous matrix of clay, silt, and very fine-grained sand.
- 62-66 As above — but with small amount of carbonaceous debris.
- 66-77 Sand — gray, very argillaceous; a few small pebbles; fine- to coarse-grained, very poorly sorted, subangular to subrounded; slightly arkosic (dull white microcline), slightly glauconitic; scattered plant fragments and unidentifiable carbonaceous fragments; trace of earthy blue vivianite.
- 77-81 Sand — gray; fine- to coarse-grained, fairly well sorted, subangular to subrounded; clear to white quartz, 5-10% fine-grained glauconite, 3-5% white potash-feldspar; minor muscovite, greenish biotite, hornblende, earthy blue vivianite; traces of garnet, epidote, staurolite, tourmaline; a few plant fragments.
- 81-87 Sand — brownish-gray, about 10% granules; medium- to very-coarse-grained, moderately sorted, subangular to subrounded; quartz, dull white potash-feldspar (about 5%), fine-grained glauconite (5-10%); minor magnetite, garnet, epidote (brown and green), hornblende; trace of vivianite.
- 87-97 Sand — grayish-brown, very argillaceous, a few small pebbles; very-fine- to medium-grained, moderately sorted, subangular to subrounded; quartz, dull white potash-feldspar (5-10%), and fine-grained glauconite (5-10%); minor magnetite, hornblende, epidote, garnet, and vivianite.
- 97-107 As above.
- 107-113 Sand — light-gray, argillaceous, scattered small pebbles (up to 5 mm); fine- to very-coarse-grained (skewed coarse), poorly sorted, subangular to subrounded; slightly arkosic (5-10% dull white microcline and microperthite); scattered grains of glauconite, pink garnet, and brown epidote.
- 113-115 As above.
- 115-120 As above.

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- 120-122 Clay and Sand — medium-gray; sand very-fine- to fine-grained, moderately sorted, subangular; arkosic (white potash-feldspar); small amounts of muscovite, glauconite, and fragmental plant debris.
- 122-132 Sand — light-gray, about 10% granules and very small pebbles (2-5 mm); medium- to very-coarse-grained, fairly well sorted, subangular to subrounded; arkosic (dull white potash-feldspar); minor epidote (brown) and garnet.
- 132-141 Sand — gray, small amount of granules; medium- to very-coarse-grained, moderately sorted, subangular to subrounded; arkosic (white and gray potash-feldspars), slightly glauconitic; traces of garnet and brown epidote.
- 141-151 As above.
- 151-161 Sand — light-gray, very argillaceous; coarse, poorly sorted, subangular to subrounded; arkosic; traces of muscovite, epidote, and garnet.
- 161-166 As above — but with small amount of fine glauconite.
- 166-172 Sand — gray, scattered small pebbles, very slightly argillaceous; coarse- to very-coarse-grained, well-sorted, subrounded; arkosic; scattered grains of garnet and epidote.
- 172-174'4" As above.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-57	No sample	
57-174'4"	Potomac Group	Lower Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
January 28, 1966