OWNER: County of Henrico

Civil Defense Control Center - Well #1

DRILLER: Sydnor Pump & Well Company, Inc.

COUNTY: Henrico

VDMR #1123 WWCR #172 TOTAL DEPTH: 255'

## GEOLOGIC LOG

#### Calvert Formation (0-141')

- O-1 Clay buff; sandy, fairly well-sorted, medium-grained, subangular to subrounded, very abundant, sand; (clay and sand present in almost equal amounts).

  I-10 Clay bright orange-yellow with small amounts of gray
  - and bright orange-yellow with small amounts of gray and bright red; sandy very abundant, very fine- to medium-grained sand; a few small pebbles; (clay and sand present in almost equal amounts).
- Sand red, medium-grained but poorly sorted; subangular; abundant small gravel and scattered larger pebbles (up to 20 mm), argillaceous, small amount of muscovite.
- 20-24 As above.
- 24-34 Sand tan; very-coarse-grained; angular to subangular; small amount of small gravel (granules); very slightly silty.
- 34-47 Sand orange-brown, coarse- to very-coarse-grained, angular to subangular; trace of clay and fine silt.
- 47-57 Clay gray; sandy abundant, very-fine-grained angular sand; small amount of granules and small pebbles; slightly ferruginous; trace of muscovite.
- 57-67 Clay gray; very gravelly, small pebbles very abundant; silty and sandy, sand fraction very poorly sorted; slightly ferruginous.
- 67-77 Clay gray; slightly sandy; small amount of small gravel and scattered larger pebbles (up to 20 mm).
- 77-87 Clay gray; sandy; moderate amount of small gravel; slightly ferruginous; small amounts of pyrite, glauconite and partly devitrified basic glass (?).
- 87-97 Clay gray; sandy; moderate amount of small gravel; glauconitic; slightly ferruginous; small amounts of pyrite and partly devitrified basic glass (?); fairly micaceous (muscovite).
- 97-106 Clay gray; sandy; small amount of small gravel; glauconitic; slightly ferruginous; small amount of pyrite; fairly micaceous (muscovite).

- 2 - #1123

OWNER: County of Henrico - Civil Defense Control Center - Well #1

- 106-116 Clay gray, mottled orange-brown; sandy; moderate amount small gravel; glauconitic; ferruginous; small amounts black glass (?) and muscovite.
- Sand gray, very-fine-grained, well sorted; silty and argillaceous; glauconitic; small amount of black glass (?); ferruginous; very micaceous (muscovite); trace of vertebrate fossil material (shark teeth).
- Sand dark-gray; very-fine- to fine-grained, fairly-wellsorted; silty and argillaceous, moderate amount of light-green clay much of which is calcareous; very large amount of small gravel; very glauconitic; small amounts of muscovite; traces of pyrite and black glass (?); small amount shell fragments.

### Potomac Group (141-257)

- Sand gray, fine- to coarse-grained, poorly sorted; moderately argillaceous and slightly silty; moderate amount of granules and a few small pebbles; slightly glauconitic; small amount light-green clay; trace of pyrite.
- Sand gray, mottled brown, fine- to coarse-grained, poorly sorted; highly argillaceous and silty with moderate amount light-green clay; moderate amount of granules and small pebbles; very slightly glauconitic; ferruginous; trace of muscovite.
- 156-167 Clay gray-green mottled brown, well-indurated; sandy; some small gravel; ferruginous; very slightly glauconitic; trace of muscovite.
- Sand buff, fine- to medium-grained, subangular; small amount of small gravel; very argillaceous; very slightly glauconitic; moderately ferruginous; abundant muscovite.
- 177-187 Sand buff, medium- to very-coarse-grained, subangular; small amount of small gravel; moderately argillaceous; very slightly glauconitic; slightly ferruginous; small amounts of muscovite and black glass (?).
- 187-197. Sand buff, coarse- to very-coarse-grained, subangular to subrounded; small amount small gravel; argillaceous; small amount of black glass (?); trace of glauconite.
- Sand buff, medium- to very-coarse-grained, poorly sorted, subangular; moderate amount small gravel, mostly granules; slightly argillaceous and glauconitic; small amounts of muscovite and ferruginous material; trace of shell material.

OWNER: C	County of	Henrico -	Civil	Defense	Control	Center	_	Well #1	L
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207-217	Sand - buff, coarse- to very-coarse-grained, sub-
	angular; minor amount of gravels; slightly argillaceous;
	slightly glauconitic; small amount muscovite and black
	glass (?); trace of garnet, epidote, feldspar.

217-227 Sand — buff, coarse- to very-coarse-grained, subangular; moderately gravelly - mostly granules; slightly argillaceous; very slightly glauconitic; small amount of muscovite and black glass (?); trace of garnet.

227-237 Sand — buff, medium- to coarse-grained, subangular; small amount granules; slightly argillaceous; small amounts muscovite, black glass (?), and reddish garnet.

237-247 Sand — gray, mottled brown, medium- to very-coarsegrained, subangular; small amount small gravel; ferruginous; slightly argillaceous; small amount muscovite.

247-257 As above.

## Petersburg Granite (2571)

257 Granite — quartz, feldspar, muscovite.

257-262 No sample.

# GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-141	Calvert Formation	Miocene
141-257	Potomac Group	Lower Cretaceous
257	Petersburg Granite	Ünknown
257-262	No sample	

Virginia Division of Mineral Resources Robert H. Teifke, Geologist October 27, 1964 OWNER: County of Henrico

Civil Defense Control Center - Well #1

WWCR #172 DRILLER: Sydnor Pump & Well Company, Inc. TOTAL DEPTH: 255'

COUNTY: Henrico

### GEOLOGIC LOG

VDMR #1123

#### Calvert Formation (0-141')

0-1	Clay - buff; sandy, fairly well-sorted, medium-grained,					
	subangular to subrounded, very abundant, sand; (clay and					
	sand present in almost equal amounts).					

- I 10Clay - bright orange-yellow with small amounts of gray and bright red; sandy - very abundant, very fine- to mediumgrained sand; a few small pebbles; (clay and sand present in almost equal amounts).
- 10-20 Sand - red, medium-grained but poorly sorted; subangular; abundant small gravel and scattered larger pebbles (up to 20 mm), argillaceous, small amount of muscovite.
- 20-24 As above.
- 24-34 Sand - tan; very-coarse-grained; angular to subangular; small amount of small gravel (granules); very slightly silty.
- 34-47 Sand - orange-brown, coarse- to very-coarse-grained, angular to subangular; trace of clay and fine silt.
- 47-57 Clay - gray; sandy - abundant, very-fine-grained angular sand; small amount of granules and small pebbles; slightly ferruginous; trace of muscovite.
- Clay gray; very gravelly, small pebbles very abundant; silty 57-67 and sandy, sand fraction very poorly sorted; slightly ferruginous.
- 67-77 Clay - gray; slightly sandy; small amount of small gravel and scattered larger pebbles (up to 20 mm).
- 77-87 Clay - gray; sandy; moderate amount of small gravel; slightly ferruginous; small amounts of pyrite, glauconite and partly devitation basic glass (A). P. O.
- 87-97 Clay - gray; sandy; moderate amount of small gravel; glauconitic; slightly ferruginous; small amounts of pyrite and partly-devitrified basic glass (2) fairly micaceous (muscovite).
- 97-106 Clay - gray; sandy; small amount of small gravel; glauconitic; slightly ferruginous; small amount of pyrite; fairly micaceous (muscovite).

OWNER: County of Henrico - Civil Defense Control Center - Well #1

207-217 Sand - buff, coarse- to very-coarse-grained, subangular; minor amount of gravels; slightly argillaceous; slightly glauconitic; small amount muscovite and black glass (?); trace of garnet, epidote, feldspar.

217-227 Sand - buff, coarse- to very-coarse-grained, subangular; moderately gravelly - mostly granules; slightly argillaceous; very slightly glauconitic; small amount of muscovite and black glass (?); trace of garnet.

227-237 Sand — buff, medium- to coarse-grained, subangular; small amount granules; slightly argillaceous; small amounts muscovite, black glass (?), and reddish garnet.

237-247 Sand — gray, mottled brown, medium- to very-coarse-grained, subangular; small amount small gravel; ferruginous; slightly argillaceous; small amount muscovite.

247-257 As above.

#### Petersburg Granite (257')

257 Granite - quartz, feldspar, muscovite.

257-262 No sample.

# GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-141	Calvert Formation	Miocene
141-257	Potomac Group	Lower Cretaceous
257	Petersburg Granite	Unknown
257-262	No sample	

Virginia Division of Mineral Resources Robert H. Teifke, Geologist October 27, 1964 OWNER: County of Henrico - Civil Defense Control Center - Well #1

- Clay gray, mottled orange-brown; sandy; moderate amount small gravel; glauconitic; ferruginous; small amounts black-glass-(-2) and muscovite.
- Sand gray, very-fine-grained, well sorted; silty and argillaceous; glauconitic; small-amount of black glass (?); fee ferruginous; very micaceous (muscovite); trace of vertebrate fossil material (shark teeth).
- Sand dark-gray; very-fine- to fine-grained, fairly-well-sorted; silty and argillaceous, moderate amount of light-green clay much of which is calcareous; very large amount of small gravel; very glauconitic; small amounts of muscovite; traces of pyrite and black-glass-(-?-); small amount shell fragments.

### Potomac Group (141-257)

- Sand gray, fine- to coarse-grained, poorly sorted; moderately argillaceous and slightly silty; moderate amount of granules and a few small pebbles; slightly glauconitic; small amount light-green clay; trace of pyrite.
- Sand gray, mottled brown, fine- to coarse-grained, poorly sorted; highly argillaceous and silty with moderate amount light-green clay; moderate amount of granules and small pebbles; very slightly glauconitic; ferruginous; trace of muscovite.
- 156-167 Clay gray-green mottled brown, well-indurated; sandy; some small gravel; ferruginous; very slightly glauconitic; trace of muscovite.
- 167-177 Sand buff, fine- to medium-grained, subangular; small amount of small gravel; very argillaceous; very slightly glauconitic; moderately ferruginous; abundant muscovite.
- 177-187 Sand buff, medium- to very-coarse-grained, subangular; small amount of small gravel; moderately argillaceous; very slightly glauconitic; slightly ferruginous; small amounts of muscovite and black glass (?).
- 187-197 Sand -- buff, coarse- to very-coarse-grained, subangular to subrounded; small amount small gravel; argillaceous; small amount of black glass (?); trace of glauconite.
- Sand -- buff, medium- to very-coarse-grained, poorly sorted, subangular; moderate amount small gravel, mostly granules; slightly argillaceous and glauconitic; small amounts of muscovite and ferruginous material; trace of shell material.