

OWNER: Sydnor Pump & Well Co., Inc.
Windy Hills Subdivision #1-A
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Hanover (Mechanicsville)

VDMR #969
WWCR #64
TOTAL DEPTH: 608'

GEOLOGIC LOG

0-276 No samples.

Petersburg Granite (276-595'6")

- 276-286 Granite — buff to pale-pink, coarse-grained, microcline, quartz, albite, biotite, muscovite, sericite, minor hydrous iron oxides.
- 286-296 As above.
- 296-306 As above — with chlorite.
- 306-318 As above.
- 318-328 Granite — buff, coarse-grained, microcline quartz, albite, biotite, muscovite, sericite, minor hydrous iron oxides.
- 328-338 As above.
- 338-348 As above — more muscovite.
- 348-358 As above.
- 358-368 Granite — light-tan, coarse-grained, microcline, quartz, muscovite, biotite, oligoclase, minor magnetite, hydrous iron oxides.
- 368-378 As above — minor chlorite.
- 378-388 No sample.
- 388-398 As above — microcline not as pink.
- 398-408 Granite — light-gray, nearly white, coarse-grained, microcline, quartz, oligoclase, muscovite, biotite, very minor hydrous iron oxides.
- 408-418 As above.
- 418-428 As above — buff, slight increase of hydrous iron oxides.
- 428-438 Granite — light-gray, coarse-grained, microcline, quartz, oligoclase, biotite, muscovite, very minor hydrous iron oxides.
- 438-448 As above.

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- 448-458 Granite — light-gray, coarse-grained, microcline, quartz, oligoclase, biotite, muscovite, very minor hydrous iron oxides.
- 458-468 As above.
- 468-478 Gneiss — medium-light-gray, coarse-grained, muscovite, quartz, biotite, plagioclase, microcline, minor calcite, pyrite, garnet; minor hydrous iron oxides.
- 478-488 As above.
- 488-498 As above — more biotite.
- 498-508 As above.
- 508-518 Granodiorite — light-tan, very coarse-grained, oligoclase, potash feldspar, quartz, muscovite, biotite, minor calcite, pyrite, sericite and garnet.
- 518-528 As above — too finely ground to determine coarse from very coarse-grained.
- 528-538 As above — more biotite, no pyrite.
- 538-548 As above.
- 548-558 Quartz Monzonite — light-tan, coarse-grained, potash and plagioclase feldspars, quartz, muscovite, biotite, minor garnet and calcite.
- 558-568 As above.
- 568-578 As above.
- 578-595'6" Gneiss — black with white, coarse-grained, biotite, quartz, muscovite, plagioclase, calcite, garnet, potash feldspar, minor pyrite, and hornblende.
- 595'6"-608 No sample.

GEOLOGIC SUMMARY

Most of the samples are too finely ground to determine if the rock is very coarse grained or just coarse grained.

<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-276	No sample
276-595'6"	Petersburg Granite
595'6"-608	No sample
	Uncertain