

OWNER: Mrs. Hamilton #3  
DRILLER: J. T. Ellington  
COUNTY: Stafford

VDMR #961  
WWCR #48  
TOTAL DEPTH: 292'

GEOLOGIC LOG

Potomac Group

0-15	Clay - dark yellowish orange, fine to medium grained, subrounded quartz grains.
15-25	Sand - tan, medium grained, subrounded grains, quartz, and feldspar, minor clay.
25-30	As above.
30-45	As above.
45-60	Clay - light olive gray, fine to medium grained, subrounded quartz and feldspar grains and minor sericite.
60-75	As above.
75-90	Clay - pale olive, fine to medium grained, quartz, minor feldspar.
90-105	Sand - tan, medium grained, subrounded, quartz and feldspar, minor clay.
105-120	As above.
120-130	As above.
130-145	As above.
145-160	As above.
160-175	As above.
175-195	No sample.
195-210	Sand - light olive gray, medium grained, quartz, feldspar, moderate clay.
210-220	No sample.
220	Sand - grayish tan, medium grained, quartz, feldspar, minor clay.

- 220-240 No sample.
- 240-255 Sand - light gray, medium grained, quartz, feldspar, minor clay.
- 255-270 As above - X-ray analysis: Quartz 50%, potassic feldspar 30%, kaolinite 15%, mica 5%.
- 270-275 No sample.
- Petersburg Granite
- 275-290 Granodiorite - gray, medium grained, quartz, feldspar, biotite, minor clay, X-ray analysis: Quartz 40%, plagioclase 35%, biotite 15%, potassic feldspar 10%.
- 290-305 Granodiorite - gray, coarse grained, quartz, potassic feldspar, plagioclase, biotite.
- 305-320 Granite - fine to medium grained, potassic feldspar, biotite, minor plagioclase.
- 320-335 As above - coarser grained.
- 335-350 As above - large increase in potassic feldspar, fracture zone.
- 350-365 As above - no fracture zone.
- 365-380 As above.
- 380-385 No sample.
- 385-400 Granite - medium to coarse grain, quartz, potassic feldspar, biotite, minor plagioclase, high clay content.
- 400-415 As above.
- 415-430 As above.
- 430-445 As above - less potassic feldspar.
- 445-460 As above.
- 460-475 No sample.

OWNER: Mrs. Hamilton #3 (Continued)

#961

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-270	Potomac group	Cretaceous
275-460	Petersburg Granite	Precambrian

Virginia Division of Mineral Resources  
Villard S. Griffin, Jr., Geologist  
July 15, 1964