



OWNER: Totopotomoy, Inc.  
DRILLER: Hingley Well Co.  
COUNTY: Hanover (Poindexters)

VDMR: 2221  
WWCR: 110  
TOTAL DEPTH: 300'

GEOLOGIC LOG

Depth in  
feet

0-1            No sample

COLUMBIA GROUP (1-30')

1-30            Sand — orange, slightly clayey; medium grained, poorly  
sorted; some feldspar

30                "                moderately clayey

30-75           No samples

CALVERT FORMATION (75-145')

75                Sand — blue-gray, clayey; fine grained, very well-  
sorted; muscovite common

75-85            "                brownish-gray, a few shell fragments

95                Sand — gray, clayey, 20% shell fragments; fine grained,  
very well-sorted; mica common

95-100          Clay — gray, compact, 20% coarse shell material; small  
amount of fine, well-sorted sand

100-110          "                5% shell material, moderately sandy;  
sand is fine-grained and well-sorted;  
greenish quartz with abundant carbon-  
aceous material and a trace of glauconite

115                \* Biotite — microcline granite

118-145          Clay — light-gray, moderately sandy; sand is fine grained  
and very well-sorted; traces of muscovite and  
glauconite

145                "                with 5-10% small, iron-stained shell  
fragments

145-153          No sample

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#2221

PATUXENT FORMATION (153-170')

153 Sand — gray, clean; medium-to very coarse grained, rather poorly-sorted; sharply-angular and elongate quartz, abundant fragments of dark-gray, fine-grained rock, and subordinate feldspar; abundant angular garnet

170 Sand — tan, clean; coarse-to very coarse-grained, moderately sorted; moderately feldspathic; traces of muscovite and angular garnet

170-185 No sample

PETERSBURG FORMATION (185-290')

185 Granite saprolite — gray; quartz, biotite, chlorite, muscovite, intensely decomposed feldspar, and clay

200 Granite — reddish-gray, decomposed; quartz, white weathered feldspar, and abundant biotite-chlorite

210 Granite — moderately decomposed; quartz, yellowish feldspar, and biotite

220 Granite — gray, fresh to slightly decomposed; quartz, feldspar, and abundant coarse mica (biotite > muscovite)

230 "

240 " biotite very abundant

250 " "

260 " biotite abundant

270 " "

280 " biotite very abundant

290 " "

290-300 No sample

OWNER: Totopotomoy, Inc.

#2221

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-1'	No sample	—
1-30'	Columbia Group	Pleistocene
30-75'	No samples	—
75-145'	Calvert Formation	Middle Miocene
145-153'	No sample	—
153-170'	Patuxent Formation	Early Cretaceous
170-185'	No sample	—
185-290'	Petersburg Granite	Paleozoic (?)
290-300'	No sample	—

\* Depth at which this sample is recorded as having been collected is mislabeled as fresh granitic rocks were not encountered until a depth of 220 feet (driller reports 212')

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
October 3, 1968