

INTERVAL SHEET WWCR: 80

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VDMR Well No: 2227

Date rec'd: 8/26/68

Sample Interval: from 0 to: 150'

PROP: Edward L. Muller (Gulf Service Station)

Number of samples: 13

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 154'

COUNTY: Caroline (Ladysmith)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
-	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
-	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Edward L. Muller (Gulf Service Station)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Caroline (Ladysmith)

VDMR: 2227
WWCR: 80
TOTAL DEPTH: 154'

GEOLOGIC LOG

Depth in
feet

COLUMBIA GROUP (0-20')

- 0-10 Sand — orange-brown, moderately clayey; fine-to very fine-grained, fairly well-sorted, angular; very-slightly feldspathic
- 10-20 Sand — brown, moderately clayey, 5% moderately-feldspathic, poorly-rounded granule gravel; fine-to coarse-grained, poorly sorted, angular to subangular; slightly feldspathic; some blue quartz in coarse fraction
- 20-30 No sample

CALVERT FORMATION (30-50')

- 30-40 Sand and Gravel — moderately-abundant matrix of medium-gray clay; 40% fine-grained (2-15 mm), rounded quartz gravel, with subordinate fresh feldspar; 60% fine-to very fine-grained, well-sorted, angular quartz sand, with traces of magnetite and garnet
- 40-50 " 25% gravel, 75% sand
- 50-60 No sample

PETERSBURG GRANITE (?) (60-150')

- 60-70 Biotite granite — gray, fine-grained; quartz, feldspar, biotite, and minor amount of garnet
- 70-80 "
- 80-90 " pinkish-gray, garnetiferous; increased amount of garnet; trace of amphiboles
- 90-100 Hornblende -biotite granite — dark gray; fine-to medium-grained; garnetiferous; quartz, feldspar, hornblende, biotite, and garnet

OWNER: Edward L. Muller (Gulf Service Station)

#2227

100-110	Hornblende-biotite granite — dark gray; fine-to medium-grained; garnetiferous; quartz, feldspar, hornblende, biotite, and garnet
110-120	"
120-130	Hornblende granite — very-dark gray; fine-to medium-grained; quartz, feldspar, hornblende, and traces of biotite and garnet
130-140	Biotite granite — gray, fine-grained; quartz, feldspar, and biotite; minor amount of garnet, and trace of hornblende
140-150	"
150-154	No sample

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-20'	Columbia Group	Pleistocene
20-30'	No sample	—
30-50'	Calvert Formation	Miocene
50-60'	No sample	—
60-150'	Petersburg Granite (?)	Paleozoic (?)
150-154'	No sample	—

Virginia Division of Mineral Resources
Robert Teifke and Robert Willson, Geologists
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