

INTERVAL SHEET

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WWCR: 31

VDMR Well No: 1936

Date rec'd: 8/18/67

Sample Interval: from 0' to: 143'

PROP: C. W. Vick, Jr.

Number of samples: 15

COMP: Mitchell's Well and Pump Co.

Total Depth: 143'

COUNTY: Dinwiddie (Petersburg)

Oil or Gas: Water: ^X Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 143	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have washed and unwashed samples.

OWNER: Dr. C. W. Vick, Jr.
DRILLER: Mitchell's Well & Pump Company
COUNTY: Dinwiddie (Petersburg)

VDMR: 1936
WWCR: 31
TOTAL DEPTH: 143'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-20')

- 0-10 Sand - orange-clay binder, 5% granule gravel; fine- to very coarse-grained, poorly sorted, angular to subangular; clear quartz, with abundant white, weathered feldspar in coarse fractions
- 10-20 Sand and Gravel - orange-brown clay binder; 50% fine gravel (2-12 mm) consisting of quartz, feldspar, quartzite, and ferricrete; 50% medium- to very coarse-grained, moderately sorted, feldspathic sand; minor epidote, muscovite

YORKTOWN FORMATION (20-50')

- 20-30 Sand - abundant matrix of medium-gray clay; fine grained, well sorted, subangular; very slightly glauconitic and feldspathic; trace of muscovite
- 30-40 Clay - medium-gray, mottled, yellowish-brown, slightly silty and sandy; trace of glauconite
- 40-50 Sand - tan, trace of clay, 10% granule gravel; fine- to very coarse-grained, poorly sorted, variably rounded; feldspathic; minor shell, platy phosphorite, garnet

CALVERT FORMATION (50-90')

- 50-60 Clay - light bluish-gray, moderately sandy; sand is fine grained, well sorted, angular; very slightly glauconitic and muscovitic; moderately diatomaceous
- 60-70 Clay - light bluish-gray, slightly silty and sandy; slightly to moderately diatomaceous; a few plant fragments
- 70-80 " "
- 80-90 " "

MATTAPONI FORMATION (90-100')

OWNER: Dr. C. W. Vick, Jr.

#1936

90-100 Sand - moderately abundant matrix of drab, dark, greenish-brown clay, about 20% fine gravel (2-10 mm) consisting of quartz, nodules of dark-gray to black phosphorite, and a few rock fragments; sand is fine- to medium-grained, rather poorly-sorted, poorly rounded; clear-to-greenish quartz, with 20% dark-green glauconite, and minor muscovite and phosphorite; a few shell fragments

PATUXENT FORMATION (100-140')

100-110 Sand - white, clean, a few granules; medium- to very coarse-grained, moderately sorted, angular to subrounded; clear quartz, very feldspathic; minor garnet, pyrite, and shell

110-120 Sand - grains coated with gray clay, 15% granule gravel; fine- to very coarse-grained, rather poorly-sorted; feldspathic, slightly lithic, slightly glauconitic

120-130 Sand - tan, clean, 10% granule gravel; poorly sorted, poorly rounded; feldspathic; trace of shell

130-140 " "

WEATHERED BEDROCK (140-143')

140-143 Saprolite - quartz, biotite, and yellowish-green clay with granitic texture

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-20	Columbia Group	Pleistocene
20-50	Yorktown Formation	Late Miocene
50-90	Calvert Formation	Middle Miocene
90-100	Mattaponi Formation	Paleocene
100-140	Patuxent Formation	Early Cretaceous
140-143	Weathered Bedrock	Paleozoic (?)

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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