

INTERVAL SHEET

WWCR171

Page 1 of 1

VDMR Well No: 1908

Date rec'd: 6/23/67

Sample Interval: from 0' to: 140'

PROP: Pure Oil Co.

Number of samples: 14

COMP: Mitchell's Well and Pump Co.

Total Depth: 140'

COUNTY: Chesterfield (Walthal)

Oil or Gas: Water: ^XExploratory:

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	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

all intervals have both washed and unwashed samples

OWNER: Pure Oil Company
DRILLER: Mitchell's Well & Pump Company
COUNTY: Chesterfield (Walthal)

VDMR: 1908
WWCR: 171
TOTAL DEPTH: 140'

GEOLOGIC LOG

Depth in feet

COLUMBIA GROUP (0-40')

- 0-10 Sand - abundant matrix of orange clay, 2-5% granule gravel; fine- to very-coarse grained, poorly sorted, angular to subangular; feldspathic (white, weathered feldspar); minor muscovite
- 10-20 " abundant matrix of pale-brown clay
- 20-30 Sand - grains are coated with brown (organic?) clay; fine- to very coarse-grained, poorly sorted, angular to subangular; feldspathic; traces of muscovite and garnet; abundant fragments of peat
- 30-40 Sand - abundant matrix of medium-brown clay, 5% fine gravel; very fine- to very coarse-grained, poorly sorted; angular to subangular, feldspathic; a few plant fragments

MATTAPONI FORMATION (40-60')

- 40-50 Sand - medium-gray, moderately clayey, 5% granule gravel; fine grained, well-sorted, angular; 5% fresh glauconite; traces of muscovite and pyrite
- 50-60 " 10% green-tinted granule gravel

PATUXENT FORMATION (60-120')

- 60-70 Sand and Gravel - 30% poorly rounded granule gravel composed of quartz and crystalline rock fragments; 70% medium- to very coarse-grained, subangular sand; very feldspathic; traces of garnet, tourmaline and pyrite
- 70-80 " 10% granule gravel
- 80-90 Sand - tan, clean, a few granules; fine- to very coarse-grained, poorly sorted, angular to subrounded; clear quartz; very feldspathic
- 90-100 " 15-20% quartzo-feldspathic granule gravel
- 100-110 Sand - binder of purplish-gray clay, 20% very feldspathic granule gravel; very fine- to very coarse-grained; very poorly sorted, angular to subrounded; feldspathic

110-120 Sand - abundant matrix of tan clay; very fine- to coarse-grained, poorly sorted, angular to subrounded; very feldspathic; traces of garnet, pyrite and muscovite

PETERSBURG GRANITE (120-140')

120-130 Granite - very decomposed biotite-microcline granite

130-140 " "

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-40	Columbia Group	Pleistocene
40-60	Mattaponi Formation	Paleocene - Late Cretaceous
60-120	Patuxent Formation	Early Cretaceous
120-140	Petersburg Granite	Paleozoic (?)

Virginia Division of Mineral Resources
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October 19, 1967

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