

INTERVAL SHEET

WWCR: 396

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VDMR Well No: 1871

Date rec'd: 4/26/67

Sample Interval: from 0' to: 352'

PROP: E. E. Pittman

Number of samples: 26

COMP: Pittman Wood & Metal Co.

Total Depth: 352'

COUNTY: Southampton (Vicksville)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 30	-	-	-
30 - 92	-	-	-
92 - 102	-	-	-
102 - 112	-	-	-
112 - 122	-	-	-
122 - 132	-	-	-
132 - 142	-	-	-
142 - 152	-	-	-
152 - 162	-	-	-
162 - 172	-	-	-
172 - 182	-	-	-
182 - 192	-	-	-
192 - 202	-	-	-
202 - 212	-	-	-
212 - 222	-	-	-
222 - 232	-	-	-
No Sample	-	-	-
242 - 252	-	-	-
252 - 262	-	-	-
262 - 272	-	-	-
272 - 282	-	-	-
282 - 292	-	-	-
292 - 302	-	-	-
302 - 312	-	-	-
312 - 322 *	-	-	-
322 - 332	-	-	-
332 - 342	-	-	-
342 - 352	-	-	-
-	-	-	-
-	-	-	-

* Unwashed sample only

OWNER: Elmo Pittman
DRILLER: Pittman Wood & Metal Products, Inc.
COUNTY: Southampton (Vicksville)

VDMR: 1871
WWCR: 396
TOTAL DEPTH: 352'
ELEV: 115'

GEOLOGIC LOG

Depth in
feet

COLUMBIA GROUP (0-30')

0-30 Sand - moderately abundant matrix of bright-red clay; fine-grained, fairly well-sorted, angular; minor feldspar and muscovite

YORKTOWN FORMATION (30-142')

30-92 Clay - medium-gray, sandy; 15 percent coarse shell fragments - pelecypods, gastropods (Turritella), and echinoid spines; sand is fine- to very fine-grained, fairly well-sorted, angular; 3-5 percent fresh glauconite; foraminifers moderately abundant; a few bone fragments

92-102 "

102-112 Sand - dark-gray, moderately clayey; fine- to very fine-grained, well-sorted, angular to subangular; about 5 percent glauconite; minor phosphorite, and muscovite; a few shell fragments

112-122 "

122-132 "

132-142 Clay - medium- to dark-gray, sand-free to sandy; sand is fine-grained, fairly well-sorted, about 10 percent glauconite; small amounts of muscovite, phosphorite, and shell fragments

MATTAPONI FORMATION (142-172')

142-152 Sand - abundant matrix of greenish-gray clay; very fine- to medium-grained, moderately sorted; 65 percent quartz, 35 percent greenish-black to medium-green glauconite; phosphatic bone and shell fragments common; minor muscovite

152-162 Sand - abundant matrix of dark clays (greens, browns, black); fine- to medium-grained, fairly well-sorted; 50 percent angular quartz, 50 percent greenish-black to light-green glauconite; phosphatic nodules and bone and shell fragments common; phosphatic trace of muscovite; a few shell fragments

162-172 Clay - greenish-gray, micaceous, locally sandy, slightly pebbly; sand is fine- to medium-grained, fairly well-sorted; clear, angular quartz (60 percent) and dark-green glauconite (40 percent); phosphatic nodules and bone fragments common; a few shell fragments, echinoid spines, and foraminifers

TRANSITIONAL BEDS (172-202')

- 172-182 Sand - brownish-gray, clayey, a few small pebbles; fine- to coarse-grained, rather poorly sorted, angular to subrounded; feldspathic; slightly glauconitic; coarse muscovite prominent; shell and bone fragments common
- 182-192 " fine- to medium-grained, fairly well-sorted
- 192-202 Sand - sparse matrix of greenish-gray, silty clay, 10 percent fine gravel; fine- to very coarse-grained, rather poorly sorted (skewed fine), angular to subrounded; clear quartz, feldspathic; slightly glauconitic and micaceous; traces of garnet and phosphorite; a few shell fragments

PATUXENT FORMATION (202-352')

- 202-212 Sand - light-gray, clear; medium- to coarse-grained, moderately sorted, angular to subangular; clear quartz; feldspathic; 10 percent glauconite; minor muscovite, phosphorite and garnet; a few shell fragments
- 212-222 Sand and Gravel - moderately abundant matrix of brownish-gray clay; 25 percent fine (2-8 mm), rounded gravel; 75 percent fine- to coarse-grained, poorly sorted sand; clear quartz; feldspathic; slightly glauconitic and micaceous; minor garnet; trace of shell
- 222-232 "
- 232-242 No sample
- 242-252 Sand and Gravel - some brownish-gray clay; 25 percent gravel(fine); 75 percent poorly sorted sand; clear quartz; feldspathic; slightly glauconitic and micaceous; minor garnet
- 252-262 Sand and Gravel - fairly clean (grains are coated with white clay); 30 percent fine (2-8 mm), rounded gravel; 70 percent coarse- to very coarse-grained, fairly well-sorted, subangular to rounded sand; very feldspathic; trace of glauconite; minor garnet
- 262-272 Sand and Gravel - fairly clean (grains are coated with white clay) 30 percent fine (2-8 mm), rounded gravel; 70 percent coarse- to very coarse-grained, fairly well-sorted, subangular to rounded sand; very feldspathic; trace of glauconite; minor garnet
- 272-282 "

- 282-292 Sand and Gravel - sparse matrix of white clay; 20 percent granular and very small pebbles (4-8 mm); 80 percent medium- to very coarse-grained, fairly well-sorted, subangular to subrounded sand; clear quartz; feldspathic; minor muscovite and glauconite; traces of garnet and kyanite
- 292-302 "
- 302-312 Gravel and Sand - sparse matrix of light-gray clay; 60-70 percent fine (2-20 mm) rounded gravel; 30 to 40 percent coarse- to very coarse-grained, fairly well-sorted, subrounded to rounded sand; very feldspathic; minor garnet; a few shell fragments
- 312-322 Clay - grayish-yellow, very sandy, slightly pebbly; sand is poorly sorted, feldspathic; minor muscovite; a few shell fragments
- 322-332 Sand - light-gray, slightly clayey, a few small pebbles; fine- to very coarse-grained, poorly sorted, poorly rounded; feldspathic; muscovite prominent; minor glauconite and garnet
- 332-342 Sand - medium-gray, slightly clayey, 25 percent granule gravel; coarse- to very coarse-grained, fairly well-sorted, angular to subrounded; clear quartz, feldspathic; traces of muscovite, garnet, pyrite, and glauconite; a few shell fragments
- 342-352 " 15 percent granule gravel

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Columbia Group	post-Miocene
30-142'	Yorktown Formation	Miocene
142-172'	Mattaponi Formation	Paleocene - Late Cretaceous
172-202'	Transitional Beds	Late Cretaceous
202-352'	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
October 16, 1967

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