

INTERVAL SHEET WWCR 398

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VDMR Well No: 2169

Date rec'd: 4/24/68

Sample Interval: from 0 to: 360'

PROP: Comm. of Virginia  
(Dept. of State Police)  
COMP: Pittman Wood & Metal Products Co.

Number of samples: 29

Total Depth: 372'

COUNTY: Southampton (Franklin)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
0 - 4	-	-	-
4 - 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 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
No samples	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
290 - 300	-	-	-
300 - 310	-	-	-
-	-	-	-
340 - 350	-	-	-
350 - 360	-	-	-

All intervals have both washed and unwashed samples

OWNER: Commonwealth of Virginia (State Police)  
DRILLER: Pittman Wood & Metal Products  
COUNTY: Southampton (Franklin)

W:2169  
C:398  
TOTAL DEPTH:372'

GEOLOGIC LOG

Depth in  
feet

COLUMBIA GROUP (0-10')

- 0-4 Sand - orange-brown, clayey; fine-grained, well-sorted, angular; slightly feldspathic; traces of muscovite and hornblende
- 4-10 Sand - tan, clean; coarse- to very coarse-grained, fairly well-sorted, angular; moderately feldspathic; traces of glauconite, hornblende, brown epidote and muscovite

YORKTOWN FORMATION (10-70')

- 10-20 Sand - gray, slightly clayey; medium- to coarse-grained, subrounded; clear quartz, with dark-green glauconite; shell fragments common
- 20-30 Shell and Sand - brownish-gray, slightly clayey; 80 percent pelecypod shell fragments, 20 percent medium- to coarse-grained, subangular to subrounded clear quartz sand; slightly glauconitic; a very few foraminifers
- 30-40 "
- 40-50 Sand and Shell - gray, moderately clayey; 50 percent pelecypod shell fragments; 50 percent medium-grained, fairly well-sorted, subangular to subrounded quartz sand; trace of glauconite
- 50-60 Sand - gray, clayey, 15 percent pelecypod shell fragments; fine- to medium-grained, fairly well-sorted, angular to subrounded; trace of glauconite; a very few foraminifers
- 60-70 Sand - greenish-gray, clayey, 10-15 percent shell fragments; fine- to medium-grained, well-sorted; 80 percent clear to greenish, angular quartz, and 20 percent dark-green glauconite; bone phosphorite common

OWNER: Commonwealth of Virginia (State Police)

#2169

MATTAPONI FORMATION (70-100')

- 70-80 Sand - abundant matrix of silty, greenish-gray clay, 20 percent coarse pelecypod shell debris, 3-5 percent fine quartz gravel, fragments of glauconitic limestone common, nodular phosphorite common; fine- to very coarse-grained, poorly sorted; 50 percent quartz, 45 percent blackish to dark-green glauconite, 5 percent bone phosphorite (total phosphorite is 10 percent); fish teeth relatively abundant
- 80-90 " 5-10 percent coarse pelecypod shell debris, 10 percent glauconitic limestone
- 90-100 Limestone and Sand - gray, moderately clayey; 50 percent white, glauconitic, moderately fossiliferous limestone; 50 percent medium-grained, well-sorted sand composed essentially of dark-green glauconite; nodular phosphorite and fish teeth common

TRANSITIONAL BEDS (100-235')

- 100-110 Sand - tan, slightly clayey, grades into granule gravel; coarse- to very coarse-grained, fairly well-sorted, subangular to rounded; moderately feldspathic; accessory garnet
- 110-120 "
- 120-130 "
- 130-140 Sand - gray, trace of clay; 70 percent medium- to coarse-grained, angular to subrounded quartz and feldspar; 30 percent medium-grained, dark-green glauconite; accessory garnet and muscovite
- 140-150 " with 40 percent glauconite
- 150-160 " "
- 160-170 " "
- 170-180 Sand and Gravel - gray, clayey, 10 percent pelecypod shell fragments and fragments of glauconite limestone; 40 percent well-sorted, quartzo-feldspathic granule gravel; sand is fine- to very-fine-grained, well-sorted, angular, subordinately glauconitic, moderately micaceous
- 180-190 " 60 percent granule gravel

OWNER: Commonwealth of Virginia (State Police)

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190-240 No samples

PATUXENT FORMATION (235-372') Top of formation defined on basis of other information.

240-250 Sand - white, clean; coarse- to very coarse-grained, well-sorted, subangular to subrounded; feldspathic; accessory garnet

250-260 Sand - reddish-brown, slightly clayey, 3-5 percent pelecypod shell fragments; coarse- to very coarse-grained, fairly well-sorted, subrounded; feldspathic; accessory garnet

260-270 "

270-280 "

280-290 "

290-300 "

300-310 " 10 percent granule gravel

310-340 No samples

340-350 Sand - reddish-brown, slightly clayey, a few shell fragments; medium- to coarse-grained, fairly well-sorted, subangular to subrounded; moderately feldspathic; slightly glauconitic; accessory garnet

350-360 Sand - white, clean; medium- to very coarse-grained, fairly well-sorted, subangular to subrounded; feldspathic

360-372 No sample

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
0-10'	Pleistocene
10-70'	Miocene
70-100'	Paleocene - Late Cretaceous
100-235'	Late Cretaceous
235-372'	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke, Geologist  
May 1, 1968

Robert H. Teifke  
March 6, 1972

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2169  
WWCR: 398

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

W-2169  
OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Commonwealth of Virginia Mailing Address: Richmond, Virginia

TENANT: Department of State Police Mailing Address: Courtland, Virginia

DRILLER: Pittman Wood & Metal Products Mailing Address: Courtland, Virginia

WELL LOCATION: County Southampton Approx. 2.1 ~~miles~~ miles west (direction) of  
Franklin, Va., at intersection and \_\_\_\_\_ feet  
\_\_\_\_\_ miles (direction) of St. Rt. 58 and  
St. Rd. 688

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 1/26/68 DATE COMPLETED: 3/22/68

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 372 feet

WATER LEVEL: Stands 118 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Electric pump

Drawdown 3 feet

Rate 15 gal. per min.

Duration 24 hrs., 0 min.

HOLE SIZE: 8-7/8 inches from 0 to 372 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 4 inches from 344 to 354 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 4 inches from +1 to 344 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 344 to 354 feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste Good

Odor None Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other St. Police office

GROUTING: Method Gravity

Material cement Depth \_\_\_\_\_ feet

PUMP: Type Submersible ( 1 HP)

Capacity 15 gal per min

Depth of intake 168 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No X

DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST)

REMARKS: ELEV. : 30'

## LOG

W-2169

FURNISHED BY: Pittman Wood & Metal Products DATE: 4/19/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Red clay	
10	20	Blue clay mixed with shells	
20	30	" " " " "	
30	40	Blue clay " " "	
40	50	Blue clay	
50	60	Blue clay	
60	70	" "	
70	80	Blue clay and black sand	
80	90	" " " " "	
90	100	Black sand	
100	110	Black sand	
110	120	Fine sand	
120	130	" "	
130	140	Fine sand mixed with blue clay	
140	150	" " " " " "	
150	160	" " " " " "	
160	170	" " " " " "	
170	180	Blue clay	
180	190	" "	
190	200	Brown clay	
200	210	" "	
210	220	Red clay	
220	230	" "	
230	240	" "	
240	250	" "	
250	260	Red clay and sand	
260	270	" " " "	
270	280	Sand	
280	290	Sand	
290	300	Sand	
300	310	Sand	
310	320	Sandy clay	
320	330	Sandy clay	
330	340	Sandy Clay	
340	350	Sand	
350	360	Sand	
360	372	Sand	

(Use additional forms if necessary)