

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

P 3667  
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Charles Blythe Mailing Address: Franklin, Virginia

TENANT: Lake Forest #1 Mailing Address:

DRILLER: Pittman Wood & Metal Prod. Co. Mailing Address: Courtland, Virginia

WELL LOCATION: County Nansemond Approx. 800 feet west (direction) of  
St. Rd. 627 and 2 1/2 ~~feet~~ miles northwest (direction) of Deanes

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

DATE STARTED: October 28, 1970 DATE COMPLETED: November 7, 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 620 feet

WATER LEVEL: Stands 57 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pump  
Drawdown 5 feet  
Rate 75 gal. per min.  
Duration 24 hrs., 0 min.

HOLE SIZE: 7 7/8 inches from 0 to 620 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
SCREEN SIZE: 6 inches from 592 to 612 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 590 to 612 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from 0 to 592 feet  
6 inches from 612 to 620 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color white Taste good  
Odor none Temp. 67 °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other Housing Develop. \_\_\_\_\_

GROUTING: Method \_\_\_\_\_  
Material Cement Depth 50 feet

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

PUMP: Type Sub.  
Capacity 75 gal. per min  
Depth of intake 100 feet

DRILL CUTTINGS SAVED: Yes  61 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.)

MARKS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# LOG

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT  
 COMMONWEALTH OF VIRGINIA

FURNISHED BY: Pittman Wood & Metal Prod. Co. DATE: \_\_\_\_\_

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	Iron rock	
20	30	"	
30	150	Blue clay and shales	
150	310	Blue clay	
310	390	Blue clay with sand streaks	
390	410	Gray clay with sand streaks	
410	430	Blue clay and shells with hard streaks	
430	460	Blue clay and sand streaks	
460	510	Blue clay	
510	590	Blue clay with streaks of sand	
590	613	Sand	
613	620	Blue Clay	

(Use additional forms if necessary)

VIRGINIA DIVISION OF MINERAL RESOURCES  
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1	C-179
Date rec'd: 2/4/71 ; processed 2/17/71	Well Repository No: 3085
PROPERTY: C. Blythe (Lake Forest Sub. #1)	Sample Interval; from 0 to; 590'
COMPANY: Pittman Wood & Metal Prod. Co.	Number of samples: 59
COUNTY: Nansemond (Deanes)	Total Depth: 620'
	Oil or Gas: Water: <input checked="" type="checkbox"/> Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260 *	500 - 510	-
10 - 20	260 - 270 *	510 - 520	-
20 - 30	270 - 280 *	520 - 530	-
30 - 40	280 - 290 *	530 - 540	-
40 - 50	290 - 300 *	540 - 550	-
50 - 60	300 - 310 *	550 - 560	-
60 - 70	310 - 320 *	560 - 570	-
70 - 80	320 - 330 *	570 - 580	-
80 - 90	330 - 340	580 - 590	-
90 - 100	340 - 350 *	-	-
100 - 110	350 - 360	-	-
110 - 120 *	360 - 370	-	-
120 - 130	370 - 380	-	-
130 - 140 *	380 - 390	-	-
140 - 150	390 - 400	-	-
150 - 160	400 - 410	-	-
160 - 170 *	410 - 420	-	-
170 - 180 *	420 - 430	-	-
180 - 190	430 - 440	-	-
190 - 200	440 - 450	-	-
200 - 210	450 - 460	-	-
210 - 220	460 - 470	-	-
220 - 230	470 - 480	-	-
230 - 240 *	480 - 490	-	-
240 - 250 *	490 - 500	-	-

\* Unwashed only



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DRILLER: Pittman Wood & Metal Prod. Co.  
COUNTY: Nansemond (Deanes)

VDMR # 3085  
WWCR # 179  
TOTAL DEPTH : 620'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-10	Columbia Group	Pleistocene
10-230	Yorktown and St. Marys formations	Late Miocene
230-375	Calvert Formation	Middle Miocene
375-560	Mattaponi Formation	Paleocene-Late Cretaceous
560-590	Tuscaloosa (?) Formation	Late Cretaceous
590-620	No samples	—

Virginia Division of Mineral Resources  
Robert H. Teifke - Geologist  
March 5, 1971

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- 0-10 clayey, brown, well-sorted sand w/ glauco. sand a trace of shell.
- 10-20 orange-brown (oxidized) shell bed w/ abundant ferricrete.
- 20-50 coarse gray shell w/ matrix of clayey silt.
- 50-90 clayey quartzo-bioclastic sand w/ ~25% coarse shell (w/ miliolids)
- 90-150 F to M quartzo-glauc'ic sand w/ abund. shell; downhole becomes  $\left\{ \begin{array}{l} \text{finer grained } (\rightarrow \text{VF}) \\ \text{less glauco'ic, more quartzose} \\ \text{more clayey (pale-green)} \end{array} \right.$
- 150-230 <sup>sl. glauco'ic, sl. clayey</sup> greenish-gray silt to fine sand in various proportions w/ abundant plant remains and shells.  
T<sub>4</sub>-T<sub>5m</sub>/T<sub>6</sub> contact quite subtle; typical basal forams not observed.
- 230-350 green clay dominant; med'y to v. compact; plant frags. abundant.
- 350-375 basal Calvert sand - Q + reworked phosphorite!
- 375-560 greenish-gray to grayish-green Q-glauc. (<F) sands w/ shells in greenish clay matrix.
- 560-590 medium-grained sands, well-sorted; Q-F w/ minor glauco.; sparse matrix oxidized clay.
- \* Tertiary-K boundary quite subtle; bright-clay succession not observed.
- \* Calvert is 45 to 60' thicker than shown on isopachs.
- \* Mattaponi is 25 to 65' thicker than shown on isopachs.