

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: Dr. Robert T. Edwards Mailing Address: N. Main St., Franklin, Va.

TENANT: Edgehill Water Company Mailing Address:

DRILLER: Pittman Wood & Metal Products Mailing Address: Courtland, Va.

WELL LOCATION: County Southampton Approx. 3 miles north (direction) of Franklin, Virginia and 600 feet west (direction) of Route # 706

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

DATE STARTED: June 15, 1970 DATE COMPLETED: June 18, 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 335 feet

WATER LEVEL: Stands 158 feet below surface OR has NATURAL flow of gallons per minute.

YIELD TEST: Method Pump Drawdown 20 feet Rate 100 gal. per min. Duration 12 hrs., 0 min.

HOLE SIZE: 16 inches from 0 to 335 feet SCREEN SIZE: 6 inches from 0 to 330 feet

WATER ZONES: from 287 to 330 feet from to feet from to feet

CASE SIZE: 6 inches from 0 to 310 feet 6 inches from 330 to 335 feet

WATER: Color Clear Taste Good Odor None Temp. °F

GROUTING: Method gravity through pipe Material cement Depth 100 feet to be furnished by customer

WELL TO SUPPLY: (check one) Home Farm Town School Industry Other Subdivision

PUMP: Type Capacity gal per min Depth of intake feet

WATER ANALYSIS AVAILABLE: Yes No X

DRILL CUTTINGS SAVED: Yes 33 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:

# LOG

FURNISHED BY: Pittman Wood & Metal Products

DATE: June 23, 1970

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	Gray clay	
10	20	Blue clay	
20	75	Blue clay with streaks of gray sand and shells	
75	95	Blue clay and oyster shells	
95	115	Black sand with hard streaks	
115	155	"	
155	215	Gray sandy clay	
215	240	Brown clay	
240	275	Blue clay with streaks of sand	
275	287	Blue clay	
287	330	Sand	
330	335	Blue clay	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: C-408 2931  
 Date rec'd: 6/25/70 ; processed 9/9/70 Sample Interval: from 0 to 335'  
 PROPERTY: Edgehill Water Co. (R. T. Edwards) Number of samples: 33  
 COMPANY: Pittman Wood & Metal Prod. Co. Total Depth: 335'  
 COUNTY: Southampton (Franklin) Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
0 - 10	255 - 265	-	-
10 - 20	265 - 275	-	-
20 - 30	275 - 285	-	-
30 - 40	285 - 295	-	-
40 - 55	295 - 305	-	-
55 - 65	305 - 315	-	-
65 - 75	315 - 330	-	-
75 - 85	330 - 335	-	-
85 - 95	-	-	-
95 - 105	-	-	-
105 - 115	-	-	-
115 - 125	-	-	-
125 - 135	-	-	-
135 - 145	-	-	-
145 - 155	-	-	-
155 - 165	-	-	-
165 - 175	-	-	-
175 - 185	-	-	-
185 - 195	-	-	-
195 - 205	-	-	-
205 - 215	-	-	-
215 - 225	-	-	-
225 - 235	-	-	-
235 - 245	-	-	-
245 - 255	-	-	-

All intervals have both washed and unwashed samples

Owner: Edgehill Water Co.  
Driller: Pittman W & M Co.  
County: Southampton (Franklin)

W# 2931  
C# 408  
Total Depth: 335'  
Quad:  
Elev:

Depth  
(feet)

WELL LOG

0-10 Clay - moderate yellow gray (5Y 6/2); very sparse sand; medium to granule, subangular, poorly sorted; Diatoms; clay clasts in fine pellets.

10-20 Sand - pale gray orange (10YR 8/4); moderate clay; medium to granule, subangular, moderate sorting.

20-30 Sand - "light and dark gray" - sparse clay; medium and coarse, subangular, moderate sorting; 25% glauconite; 10% shell fragments; iron oxide fragments; lignite.

30-55 Coquina - light and dark gray - 50% shell fragments; sparse clay; medium, subangular, well sorted; 50% shell fragments - oyster, Dentalium, Venicardium; chela of crab; 40-55 - some coarse quartz grains.

55-75 Sand - "light and dark gray" - sparse clay; medium with some coarse, subangular, well sorted; 40% shell fragments.

75-95 Coquina - light and dark gray - very sparse sand, medium to coarse, subangular, poor sorting; 95+% shell fragments; 85-95 - sparse sand and 10% glauconite.

95-105 Coquina - "light and dark gray" - moderate clay, clay is moderate yellowish brown (10YR 5/4); 20% quartz sand, medium to coarse, subangular, poor sorting; 80% shell fragments.

105-115 Sand - "light and dark gray" - 50% shell fragments, sand - 50% glauconite; 50% quartz, medium to coarse, subangular, poorly sorted.

115-125 Sand, Glauconitic - greenish black (5G 2/1); 90% glauconite - medium grained; 10% quartz sand; medium to very coarse, subangular and angular, poorly sorted.

125-135 Sand, Glauconitic - greenish black (5G 2/1); 80% glauconite, medium grained; 20% quartz sand; medium to very coarse, subangular and angular, poor sorting; some shell fragments.

135-145 Sand - olive gray (5Y 4/1); sparse clay; medium to very coarse, angular and subangular, poor sorting; 40% glauconite; 1% shell fragments; garnet; mica.

Depth  
(feet)

- 145-155 Sand - olive gray (5Y 5/1); sparse clay; medium to very coarse, angular and subangular, poor sorting; 30% glauconite; 20% shell fragments; garnet; mica.
- 155-165 Sand - olive gray (5Y 5/1); sparse clay (moderate brown and olive gray colored clasts); medium to very coarse, angular and subangular, poor sorting; 30% glauconite; 10% shell fragments; garnet; mica; pyrite and iron oxide fragments.
- 165-175 Sand - olive gray (5Y 5/1); sparse clay; fine to coarse, angular and subangular, poor sorting; 20% glauconite; 8% shell fragments; garnet, mica; pyrite and iron oxide fragments; calcite crystals; vertebra.
- 175-195 Sand - olive gray (5Y 5/1); sparse clay; fine, some coarse, subangular, well(?) sorted; 10% glauconite; 25% shell fragments; garnet, mica; pyrite; vertebra.
- 195-205 Gravel, Shell - mixed, light and dark gray - 1/3 sand, glauconitic; sparse clay (pale yellow green), fine, some coarse, subangular, well(?) sorted; quartz; 30% glauconite; 30% shell fragments; garnet, mica; shark tooth; glauconite in clay clasts; lignite; iron oxide staining.
- 205-215 Sand - light olive gray (5Y 6/1); sparse clay clasts; fine to coarse, angular and subangular, moderate sorting; 3% glauconite; 3% shell fragments; garnet, mica.
- \*215-225 Sand, Glauconitic - olive black (5Y 2/1); 80% glauconite, medium grained; 20% quartz sand; fine to coarse, angular and subangular, poor sorting; 5% shell fragments; rare clay clasts with glauconite grains.
- 225-235 Sand - light olive gray (5Y 6/1); sparse clay in clasts; medium, some fine and coarse, angular to subangular, moderate sorting; 5% glauconite; 3% shell fragments; garnet; muscovite and fuschite; phosphatic fragments; brown sandstone clasts;
- 235-255 Sand - light olive gray (5Y 6/1); sparse clay in clasts; fine to very coarse, angular to subangular, moderate sorting; 5% glauconite; 3% shell fragments.
- 255-275 Sand - light olive gray (5Y 7/1); medium to very coarse, few fine, angular to subangular, moderate sorting; some feldspar; grain or two of glauconite; some garnet.

Owner: Edgehill Water Co.

-3-

W# 2931

Depth  
(feet)

- 275-295 Sand - light olive gray (5Y 7/1); moderate clay in sand clasts with plant debris; fine to very coarse, angular and subangular, moderate sorting; some feldspar; 285-295 - 1% glauconite.
- 295-315 Sand - light olive gray (5Y 7/1); medium to very coarse, angular to subangular, moderately well sorted; some feldspar; very rare glauconite; 305-315 - more angular grains of sand.
- 315-335 Sand - light olive gray (5Y 7/1); very sparse clay in sand clasts; medium to very coarse, angular to subangular, moderate sorting; some feldspar; rare phosphatic fragments; 330-335 - 1% phosphatic fragments/glauconite and mica, garnet; very rare shell fragments also.

Logged by: J. K. Polzin  
July 30, 1980

OWNER: Edgehill Water Co. (R. T. Edwards)  
DRILLER: Pittman Wood & Metal Prod. Co.  
COUNTY: Southampton (Franklin)

VDMR # 2931  
WWCR # 408  
TOTAL DEPTH: 335'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-20	Columbia Group	Pleistocene
20-105	Yorktown and St. Marys formations	Late Miocene
105-210	Mattaponi Formation	Paleocene-Late Cretaceous
210-255	Tuscaloosa(?) Formation	Late Cretaceous
255-335	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke - Geologist  
February 19, 1971

OWNER: Edgehill Water Co. (R. T. Edwards)  
DRILLER: Pittman Wood & Metal Prod. Co.  
COUNTY: Southampton (Franklin)

VDMR # 2931  
WWCR # 408  
TOTAL DEPTH: 335'

ELEV: ~45'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-20	Columbia Group	Pleistocene
20-105	Yorktown and St. Marys formations	Late Miocene
105-210	Mattaponi Formation	Paleocene-Late Cretaceous
210-255	Tuscaloosa(?) Formation	Late Cretaceous
255-335	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources  
Robert H. Teifke - Geologist  
February 19, 1971

~~20-105~~ 20-105': Yorktown - St. Marys  
20-75': tan sand and fine shell; 75-105 coarse shell w/ many oolites.  
105-210': Mattaponi  
105-115' coarse shell & glauconite; 115-125 block glauconite sand  
125-195' WS Q-glauc. silt-sand becoming less glauconite down section  
195-210' basal Mattaponi characteristic of this area - w/ gut, pt, green F.  
210-215' grey clay w/ Q silt-sand  
215-225' clean WS sand, 90% glauconite.  
225-235' gray clay w/ Q silt-sand  
235-235' brown silt-sand-clay, mainly Q  
255-335' white sands w/ sparse tan clay; Q + white F + musco.  
generally WS but not too coarse (M-C)

ELEV ~ 45'