

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3256  
C-87

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: VIRGINIA ELECTRIC AND POWER COMPANY Mailing Address: 7th and Franklin Street

TENANT: SAME Plant well #2 Mailing Address: Richmond, Virginia

DRILLER: Atlantic Pump & Equipment Co., Inc. Mailing Address: 301 Jefferson Davis Hwy

WELL LOCATION: County Louisa Approx. 2 ~~1664~~ miles North East (direction) of  
Junction 652 and 700 and Near North Anna River (direction) of

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

DATE STARTED: May 18, 1971 DATE COMPLETED: July 23, 1971

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 335 feet

WATER LEVEL: Stands 18 feet below surface OR  
has NATURAL flow of None gallons per minute.

YIELD TEST: Method Submersible Pump  
Drawdown 32 302 feet  
Rate 9.3 gal. per min.  
Duration 48 hrs.,      min.

HOLE SIZE: 11 inches from 0 to 103 feet  
5 inches from 103' to 335 feet  
     inches from      to      feet

WATER ZONES: from 115 to 116 feet  
from 122 to 123 feet  
from 278 to 280 feet

SCREEN SIZE:      inches from      to      feet  
     inches from      to      feet  
     inches from      to      feet  
CASE SIZE: 5" inches from 0 to 103 feet  
     inches from      to      feet  
     inches, from      to      feet

WATER: Color None Taste None  
Odor None Temp. 55° °F

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

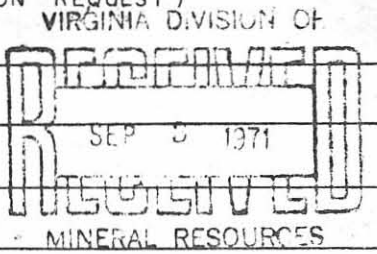
GROUTING: Method Pressure  
Material Cement Depth 103 feet

WATER ANALYSIS AVAILABLE: Yes X No       
DRILL CUTTINGS SAVED: Yes X <sup>27</sup> No     

PUMP: Type Submersible  
Capacity 9 gal per min  
Depth of intake 320' feet

(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: Atlantic Pump & Equipment Co., Inc. DATE: July 30, 1971

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	5	Red Clay	
5	9	Brown Clay	
9	20	Brown Clay	
20	30	Light Gray Stone	
30	100	Loss of Circulation	
100	110	Light Gray Rock	
110	120	Light Gray Rock	
120	130	Light Gray Rock	
130	140	Light Gray Rock	
140	150	Light Gray Rock	
150	160	Light Gray Rock	
160	170	Light Gray Rock	
170	180	Rose Rock	
180	190	Rose Rock	
190	200	Rose Rock	
200	210	Rose Rock	
210	220	Light Gray Rock	
220	230	Light Gray Rock	
230	240	Light Gray Rock	
240	250	Light Gray Rock	
250	260	Light Gray Rock	
260	270	Green Rock	
270	280	Brown Rock	
280	290	Brown Rock	
290	300	Red Rock	
300	335	Light Gray Rock	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No.: <sup>C- 87</sup> W- 3256

Date rec'd: 9/7/71 Date Processed: 9/16/71

Sample Interval: from to:

PROPERTY: VEPCO (Plant Well #2)

Number of samples: 27

COMPANY: Atlantic Pump & Equip. Co.

Total Depth: 335'

COUNTY: Louisa (Centreville)

Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To
0 - 5	-	-	-
6 - 9	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
-	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
125 -	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 290	-	-	-
290 - 300	-	-	-
300 - 310	-	-	-
310 - 335	-	-	-
-	-	-	-
-	-	-	-

Unwashed only, not enough to split

OWNER: Virginia Electric and Power Company  
DRILLER: Atlantic Pump & Equipment Co., Inc.  
COUNTY: Louisa

(Plant well #2)

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TOTAL DEPTH: 335'

GEOLOGIC LOG

<u>Depth in feet</u>	
0 - 5	Saprolite - tan, composed of quartz, kaolinite and biotite
6 - 9	"
10 - 20	" contains muscovite
20 - 30	Weathered biotite leucogneiss - tan, contains chlorite
30 - 100	No Sample
100 - 110	Biotite-quartz-feldspar rock - light-gray, rock too pulverized to determine textures
110 - 120	"
120 - 130	Biotite leucogneiss - tan, fine-grained, some pink microcline, same as sample above but contains some chips showing gneissic texture
at 125	Biotite leucogneiss - several large chips
130 - 140	"
140 - 150	" ,iron stained
150 - 160	"
160 - 170	"
170 - 180	Leucogneiss - white, medium-grained, small amount of muscovite, biotite and sulphides
180 - 190	Biotite leucogneiss - tan, medium-grain-size, some pink microcline
190 - 200	"
200 - 210	"
210 - 220	"
220 - 230	"
230 - 240	"

OWNER: Virginia Electric and Power Company (Plant well #2) W-3256

240 - 250	Biotite leucogneiss - tan, medium-grain-size, some pink microcline
250 - 260	"
260 - 270	Mesocratic quartz-amphibole gneiss - gray-green, contains chlorite and epidote in small amounts
270 - 280	Biotite leucogneiss - tannish-gray, medium-grain-size, epidote present, some alteration of biotite to chlorite
280 - 290	"
290 - 300	" some pink microcline
300 - 310	" "
310 - 335	" "

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0 - 20	Saprolite	Mesozoic-Cenozoic
20 - 30	Weathered biotite leucogneiss	Paleozoic?
30 - 100	No Sample	
100 - 170	Biotite leucogneiss	"
170 - 180	Leucogneiss	"
180 - 260	Biotite leucogneiss	"
260 - 270	Mesocratic, quartz-amphibole gneiss	"
270 - 335	Biotite leucogneiss	"

Virginia Division of Mineral Resources  
James F. Conley, Geologist  
September 26, 1973