

W-3595
C-90

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: Stone and Webster Engineering Company Mailing Address: P. O. Box 38, Mineral, Va. 23117

TENANT: VERCO Plant well #3 Mailing Address: _____

DRILLER: Atlantic Pump and Equipment Company, Inc. Mailing Address: P. O. Box 4009 Richmond, Va. 23222

WELL LOCATION: County Lousie, Virginia Approx. 2 ^{feet} miles North (direction) of
State Rt. 715 and 1/2 ^{feet} miles West (direction) of Route 601

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

DATE STARTED: April 25, 1972 DATE COMPLETED: _____

TYPE OF DRILL RIG USED: Air Rotary TOTAL DEPTH 200 feet

WATER LEVEL: Stands 13' feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible Pump
Drawdown 1 feet
Rate 46 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 10 inches from 0 to 118 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from 120 to _____ feet
from 148 to _____ feet
from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6" inches from 0 to 118 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

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

GROUTING: Method Pressure Pump
Material Cement Depth 100' feet

WATER ANALYSIS AVAILABLE: Yes No _____

PUMP: Type _____

DRILL CUTTINGS SAVED: Yes No _____

Capacity _____ gal per min

Depth of intake _____ 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: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	6	Red Clay	
6	10	Brown Sand Clay	
10	68	Brown Weathered Granite	
68	80	Black Mica and Granite	
80	105	Brown Granite	
105	125	Black Mica and Quartz	
125	147	Brown, White and Pink Weathered Granite	
147	200	Pink Quartz	

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

INTERVAL SHEET

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Well Repository No.: W-3595

Date rec'd: 7/21/72 Date Processed: 9/27/72

Sample Interval: from 0 to: 200'

PROPERTY: VEPCO (Plant Well #3)

Number of samples: 20

COMPANY: Atlantic Pump & Equip. Co.

Total Depth: 200'

COUNTY: Louisa (Centreville)

Oil or Gas: Water:x Exploratory:

From-To	From-To	From-To	From-To
0 - 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	-	-	-
190 - 200	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed & unwashed samples.

(Plant well #3)

OWNER: Stone and Webster Engineering Company
DRILLER: Atlantic Pump and Equipment Company
COUNTY: Louisa

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TOTAL DEPTH: 200'

GEOLOGIC LOG

<u>Depth in feet</u>	
0 - 10	Saprolite - light-tan, composed of kaolinized feldspar, quartz, muscovite and weathered biotite
10 - 20	"
20 - 30	" manganese coatings on some grains
30 - 40	Weathered granite or gneiss - light-tan, medium-grain-size, composed of weathered feldspar, quartz, muscovite and biotite
40 - 50	Pegmatite - white, coarse-grained, composed of muscovite, quartz and feldspar, manganese stained, some feldspars are weathered
50 - 60	Amphibole gneiss - medium-greenish-gray, amphibole produces a lineation, much of the feldspar is altered to epidote, contains large pink microcline fragments (pegmatite ?)
60 - 70	"
70 - 80	Biotite granite or gneiss - light-gray, contains amphibolite gneiss and pink microcline pegmatite fragments
80 - 90	Amphibole gneiss - same as 50' - 60' interval
90 - 100	Mixed rock - in part biotite granite or gneiss and amphibole gneiss
100 - 110	Amphibole-biotite gneiss - light to medium gray, salt and pepper appearance, medium-grain-size, equigranular
110 - 120	Amphibole - some coarse graphic granite (pegmatite)
120 - 130	" some large pink microcline and amphibole gneiss fragments

OWNER: Stone and Webster Engineering Company (Plant well #3)

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130 - 140	Biotite gneiss - medium-tannish-gray, fine-medium grain size, contains muscovite
140 - 150	" contains large pink microcline (pegmatite) epidote and large biotite fragments
150 - 160	" "
160 - 170	" "
170 - 180	" " some epidotized pegmatite fragments
180 - 190	" " "
190 - 200	" "

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0 - 30'	Saprolite	Mesozoic-Cenozoic
30 - 40'	Weathered granite or gneiss	Paleozoic (?)
40 - 50'	Pegmatite	"
50 - 70'	Amphibole gneiss	"
70 - 80'	Biotite granite or gneiss	"
80 - 90'	Amphibole gneiss	"
90 - 100'	Mixed rock in part biotite granite or gneiss and amphibole gneiss	"
100 - 130'	Amphibole-biotite gneiss	"
130 - 200'	Biotite gneiss	"

Virginia Division of Mineral Resources
James F. Conley, Geologist
September 27, 1973