

W#: 4494  
C#: 220

COMMONWEALTH OF VIRGINIA  
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: Federal Reserve Bank of Richmond Mailing Address: 9th and Franklin Streets  
Richmond, VA. 23261

TENANT: well # 2 Mailing Address: 2111 Magnolia Street

DRILLER: C. P. Brooken Mailing Address: Richmond, VA. 23223

WELL LOCATION: County Henrico Approx. 25 feet East (direction) of  
7th Street and 125 feet South (direction) of Byrd Street

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

DATE STARTED: 9/10/75 DATE COMPLETED: 10/16/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 264 feet

WATER LEVEL: Stands 24 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Turbine  
Drawdown 39' 3 1/2" feet  
Rate 400 gal. per min.  
Duration 48 hrs., \_\_\_\_\_ min.

HOLE SIZE: 15 inches from 0 to 56 feet  
10 inches from 56 to 264 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 231 to 238 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 10 inches from +2 to 56 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

WATER ANALYSIS AVAILABLE: Yes  No \_\_\_\_\_  
27  
DRILL CUTTINGS SAVED: Yes  No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# LOG

FURNISHED BY: Sydney Hydrodynamics, Inc. DATE: 10/15/75

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	7	Clay and Rock	
7	40	Light Gray Granite	
40	60	Dark Gray Granite	
60	100	Red and Gray Granite	
100	110	Red Granite	
110	120	Red and Gray Granite	
120	130	Red Granite	
130	140	Red and Gray Granite	
140	150	Coarse pink granite	
150	180	Pink and Gray Rock	
180	200	Red and Gray Rock	
200	210	Coarse red-Gray Rock	
210	220	Red Gray Rock	
220	231	Red-Gray Rock	
231	238	Fracture zone - water	
238	250	Red-Gray granite	
250	264	Gray Granite	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W-4494  
 C- 220

Date rec'd: 11/18/75 Date Processed: 10/26/76

Sample Interval: from 0 to: 260

PROPERTY: Federal Reserve Bank of Richmond #2

Number of samples: 27

COMPANY: Sydnor *Hydrodynamics, Inc.*

Total Depth: 264'

COUNTY: ~~Richmond (City)~~ Henrico (Richmond)

Oil or Gas: Water X Exploratory:

From-To	From-To	From-To	From-To
0 - 7½	240 - 250	-	-
7½ - 10	250 - 260	-	-
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	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-

Unwashed only

OWNER: Federal Reserve Bank  
of Richmond  
DRILLER: Sydnor  
COUNTY: Richmond (City)

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TOTAL DEPTH: 264'  
QUAD.: Richmond

GEOLOGIC LOG

Depth  
(feet)

0-7.5 Sand — grayish orange; moderate clay; medium to coarse grained, 10% granules, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 10% biotite; some muscovite.

7.5-10 Granite — salt and pepper; quartz; feldspar; 12% biotite.

10-20 Granite — yellowish gray, black; quartz; 30% biotite; feldspar.

20-30 Granite — salt and pepper; 45% biotite; quartz; feldspar.

30-40 Granite — salt and pepper; quartz; 35% biotite; feldspar; few grains of pyrite.

40-50 Granite — salt and pepper; quartz; feldspar; 20% biotite; few grains of pyrite.

50-60 Granite — very light gray; quartz; feldspar; 7% biotite.

60-70 Granite — salt and pepper; quartz; 30% biotite.

70-80 Granite — salt and pepper; quartz; feldspar; 35% biotite; few grains of pyrite.

80-90 Granite — salt and pepper; quartz; feldspar; 20% biotite.

90-100 Granite — salt and pepper; quartz; feldspar; 15% biotite.

100-110 Granite — salt and pepper; quartz; feldspar; 25% biotite; few grains of pyrite.

110-120 Granite — white, pinkish orange, black; quartz; feldspar; 10% biotite; few grains of pyrite.

120-130 As above.

130-140 Granite — white, pinkish orange; quartz; feldspar; 5% biotite; few flakes of muscovite.

140-150 Granite — white, light pinkish orange; quartz; feldspar; 2% biotite, some muscovite.

OWNER: Federal Reserve Bank  
of Richmond

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Depth  
(feet)

150-160 As 140-150' except light pinkish white.

160-170 Granite — salt and pepper; quartz; feldspar; 10% biotite; some muscovite.

170-180 As above plus few grains of pyrite.

180-190 Granite — off white; quartz; feldspar; 7% biotite; some muscovite.

190-200 As above.

200-210 Granite — salt and pepper; quartz; feldspar; 15% biotite; some muscovite; few grains of pyrite.

210-220 Granite — salt and pepper; quartz; feldspar; 12% biotite; some muscovite.

220-230 Granite — off white; quartz; feldspar; 5% biotite; few flakes of muscovite.

230-240 Granite — pinkish orange, white; quartz; feldspar; 10% biotite.

240-250 Granite — pinkish orange, light gray, white; quartz; feldspar; 7% biotite.

250-260 Granite — light gray, white, black; quartz; feldspar; 15% biotite.

260-264 No Sample.

Note: All samples are unwashed.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-260	260+	Petersburg Granite	Paleozoic (?)

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
August 28, 1978