

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2359  
C: 180

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: Dept. of Cons. & Econ. Development (Div. of Parks) Mailing Address: 501 Southern States Building  
7th and Main St., Richmond, Va.

TENANT: Pocahontas State Park Well #10 (Museum well #1) Mailing Address: Chesterfield, Virginia 23832  
P. O. Box 1476

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Rd., Richmond, Va.

WELL LOCATION: County Chesterfield Approx. 500 feet miles west (direction) of  
main park road and 600 feet miles north (direction) of third branch

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

DATE STARTED: 11/11/68 DATE COMPLETED: 11/19/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 227 feet

WATER LEVEL: Stands 42 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pumped  
Drawdown 129 feet  
Rate 50 gal. per min.  
Duration 8 hrs., 0 min.

HOLE SIZE: 10 3/4 inches from 0 to 115 feet  
6 inches from 115 to 227 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 169 to 170 feet  
from 186 to 187 feet  
from 220 to 223 feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
None  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color OK Taste OK  
Odor none Temp. ? °F

CASE SIZE: 6 inches from +2 to 115 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

GROUTING: Method pressure  
cement &  
Material water Depth 115 feet

WATER ANALYSIS AVAILABLE: Yes X (state lab) No \_\_\_\_\_

PUMP: Type test submersible  
Capacity \_\_\_\_\_ gal. per min.  
Depth of intake \_\_\_\_\_ feet

DRILL CUTTINGS SAVED: Yes 22 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: Sydnor Hydrodynamics, Inc.      DATE: 11/19/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	1	Topsoil	
1	46	Gray sand and clay	
46	50	Gray granite	
50	69	Soft granite	
69	70	Soft granite	Water (1 GPM)
70	100	Brown and gray granite	
110	114	Soft granite	
114	169	Gray granite	
169	170	Pink granite	Water (2 GPM)
170	175	Pink granite	
175	186	Pink and gray granite	
186	187	Weathered granite	(12 GPM)
187	190	Pink granite	
190	220	Pink and gray granite	
220	223	Weathered zone	(50 GPM)
223	227	Gray granite	

(Use additional forms if necessary)



OWNER: Virginia Division of Parks  
Pocahontas State Park, Well #10  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Chesterfield (Chesterfield C.H.)

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TOTAL DEPTH: 227'

GEOLOGIC LOG

Depth  
in feet

0-10	No sample
10-20	Granite — pink, coarse to medium grained, crystalline; pink feldspar and quartz, with minor amount of white feldspar; traces of biotite and magnetite
20-30	"
30-40	"
40-50	" pinkish-tan; decrease in amount of pink feldspar, increase in amount of white feldspar
50-60	Biotite granite — gray, medium grained, crystalline, slightly micaceous; white feldspar, quartz and biotite, with traces of magnetite and pink feldspar
60-70	Granite — very light gray, medium grained, crystalline; white feldspar and quartz, minor amount of biotite, and traces of magnetite and pink feldspar
70-80	" tan; minor amount iron-oxide stained and weathered fragments
80-90	" "
90-100	" "
100-110	" "
110-120	Biotite granite — light pinkish-gray, fine to coarse grained, crystalline; white feldspar and quartz, minor amounts of pink feldspar and biotite, and trace of magnetite

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120-130	Biotite granite — light pinkish-gray, fine to coarse grained, crystalline; white feldspar and quartz, minor amounts of pink feldspar and biotite, and trace of magnetite
130-140	" light gray, fine grained; trace of pink feldspar
140-150	" "
150-160	" "
160-170	" "
170-180	"
180-190	"
190-200	"
200-210	"
210-220	Biotite granite — pink, coarse to medium grained, crystalline; pink feldspar and quartz, minor amounts of biotite and white feldspar, and trace of magnetite
220-225	"
225-227	No sample

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-10'	No sample	—
10-225'	Petersburg Granite	Paleozoic (?)
225-227'	No sample	—

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
January 2, 1968