

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 2478

C#: 118

MAILING ADDRESS:

B 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: M.C.V. Health Sciences Division Mailing Address: Dept. of Building & Grounds /3rd. fl
Virginia Commonwealth University 1000 East Clay St., Richmond, Va.

TENANT: Animal Research Facility Mailing Address: Hanover County, Virginia

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

WELL LOCATION: County Hanover Approx. 800 ^{feet}~~miles~~ Northwest (direction) of
Route 659 and 1000 ^{feet}~~miles~~ East (direction) of Route 95

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

DATE STARTED: 1/14/69 DATE COMPLETED: 1/27/69

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 282 feet

WATER LEVEL: Stands 31 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump
Drawdown 169 feet
Rate 18 gal. per min.
Duration 36 hrs., _____ min.

HOLE SIZE: 11 inches from 0 to 115 feet
6 inches from 115 to 282 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 200 to _____ feet
from 233 to _____ feet
from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color clear Taste _____
Odor _____ 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 x _____
Industry _____ Other _____

GROUTING: Method Pressure
Material Cement & Water Depth 115 feet

WATER ANALYSIS AVAILABLE: Yes x No _____
State lab.

PUMP: Type _____
Capacity _____ gal. per min
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes 24 x 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: 1/27/69

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	Top soil	
1	30	Red clay	
30	100	Gray clay	
100	105	Gray clay, gravel, shells and sand	
105	115	Gray granite	
115	200	Soft gray granite (some water at 200' est. 3 gpm.	
200	200	Hard gray granite	
200	223	Soft gray granite	
223	233	Hard gray granite	
233	235	Red - gray granite (some water at 233' 30 gpm. dropping off)	
235	265	Gray granite	
265	268	Black granite	
268	280	Gray granite	
280	282	Soft gray and white rock	

(Use additional forms if necessary)

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2478
C-119

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DIVISION OF MINERAL RESOURCES

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Charlottesville, Virginia

WATER WELL COMPLETION REPORT

W-2478

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Virginia Commonwealth University
Mailing Address: Dept. of Building & Grounds/3rd.
1000 East Clay St., Richmond, Va.

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Mailing Address: Hanover County, Virginia

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TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 282 feet

WATER LEVEL: Stands 31 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible
Drawdown 169 feet
Rate 18 gal. per min.
Duration 36 hrs., _____ min.

HOLE SIZE: 11 inches from 0 to 115 feet
6 inches from 115 to 282 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 200 to _____ feet
from 233 to _____ feet
from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color Clear Taste _____
Odor _____ 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 X _____
Industry _____ Other _____ State lab. _____

GROUTING: Method Pressure
Material Cement & Water Depth 115 feet

WATER ANALYSIS AVAILABLE: Yes X No _____
DRILL CUTTINGS SAVED: Yes X 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: YELLOW TAVERN QUADRANGLE
Yellow Tavern
ELEV. : 202' Elev. ~ 202' topo

LOG

W-2478

1/27/69

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: _____

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	Top soil	
1	30	Red clay	
30	100	Gray clay	
100	105	Gray clay, gravel, shells and sand	
105	115	Gray granite	
115	200	Soft gray granite (some water at 200 ¹) est. 3 gpm.	
200	220	Hard gray granite	
220	223	Soft gray granite	
223	233	Hard gray granite	
233	235	Red - gray granite (some water at 233 ¹ 30 gpm. dropping off)	
235	265	Gray granite	
265	268	Black granite	
268	280	Gray granite	
280	282	Soft gray and white rock	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1

Well Repository No:W#: 2478

C#:118

Date rec'd: 3-26-69 Date Processed:

Sample Interval: from 1 to; 282

PROPERTY: Va Commonwealth Univ
 (M.C.V. Health Sci. Div.)

Number of samples: 21

COMPANY: Sydnor Hydrodynamics, Inc.

Total Depth: 282'

COUNTY: Hanover (Ashland)

Oil or Gas: WaterX Exploratory:

From-To	From-To	From-To	From-To
1 - 30	-	-	-
30 - 110	-	-	-
109 - 112	-	-	-
112 - 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	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
278 - 282	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Va. Comm. Univ.-- MCV
Health Sciences Div.
DRILLER: Sydnor Hydrodynamics
COUNTY: Hanover (Ashland)

W#: 2478
C#: 118
TOTAL DEPTH: 282'
QUAD.: Yellow Tavern

GEOLOGIC LOG

Depth
(feet)

- 0-1 No Sample.
- 1-30 Sand — very dark yellowish orange; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 30-110 Gravel — light olive gray; abundant clay; moderate medium to coarse grained sand, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; washed sample contains 15% black phosphatic material; some biotite; some garnet; muscovite; few shell fragments.
- 109-112 Granite (weathered) — light olive gray; slightly clayey; quartz; feldspar; 7% black phosphatic material (contamination); 5% biotite; some muscovite; some garnet.
- 112-120 Granite (weathered) — very light gray; slightly clayey; quartz; feldspar; 10% biotite; some muscovite.
- 120-130 As above plus few grains of pyrite.
- 1130-140 As above except few flakes of muscovite
- 140-150 Granite — light gray; equigranular; quartz; feldspar; 12% biotite; few flakes of muscovite.
- 150-160 As above except 15% biotite.
- 160-170 As above except 5% biotite; some muscovite.
- 170-180 Granite — light gray; quartz; feldspar; 10% biotite; 2% muscovite; few grains of garnet.
- 180-190 As above except some muscovite.
- 190-200 As above plus few grains of pyrite.
- 200-210 Granite — salt and pepper; quartz; feldspar; 20% biotite; some muscovite; few grains of garnet.
- 210-220 As above
- 220-230 As above except 2% muscovite.

OWNER: Va Comm. Univ. — MCV
Health Sciences Div.

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W#: 2478

GEOLOGIC LOG

Depth
(feet)

- 230-240 Granite — light gray, white, black; equigranular; quartz; feldspar; 10% biotite; some muscovite; few grains of garnet.
- 240-250 Granite — black, medium light gray; equigranular; quartz; feldspar; 35% biotite; some muscovite.
- 250-260 Granite — salt and pepper; quartz; feldspar; 15% biotite; some muscovite.
- 260-270 Granite — medium dark gray; quartz; feldspar; 40% biotite.
- 270-280 Granite — salt and pepper; quartz; feldspar; 10% biotite; some garnet; muscovite.
- 278-282 Granite — salt and pepper; quartz; feldspar; 10% biotite; 2% muscovite.

Logged by: Michael T. Currie
December 28, 1978

OWNER: Va. Comm. Univ. — MCV
Health Sciences, Div.

W#: 2478

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-1	1	No Sample	
1-30	29	Columbia Group	Pleistocene
30-109	80	Chesapeake Group (?)	Miocene
109-282	173	Petersburg Granite	Palezoic (?)

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
January 3, 1979