

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

Department of Interior

OWNER: U. S. Geological Survey Mailing Address: Washington, D. C.

TENANT: Test Well #2 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P. O. Box 1476, 1305 Brook Rd., Richmond, Virginia

WELL LOCATION: County Loudoun Approx. ^{feet}/_{miles} south (direction) of Leesburg City Limits and 3000 ^{feet}/_{miles} west (direction) of U.S. Hwy. 15

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

DATE STARTED: 7/10/68 DATE COMPLETED: 7/11/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 250 feet

WATER LEVEL: Stands 9 1/2 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air lift

Drawdown _____ feet

Rate 30 gal. per min.

Duration 0 hrs., 30 min.

WATER ZONES: from 19 to 19 1/2 feet

from 26 to 30 feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other test well

WATER ANALYSIS AVAILABLE: Yes _____ No X

DRILL CUTTINGS SAVED: Yes 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: * Casing pulled out after air test; well abandoned and hole back-filled.

HOLE SIZE: 8 3/4 inches from 0 to 17 feet

6 1/2 inches from 17 to 250 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: *7 inches from 0 to 17 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

GROUTING: Method none

Material _____ Depth _____ feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 8/26/68

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	16	Boulders and sandy soil	
16	19	Greenstone	
19	19 1/2	Clay	Some water
19 1/2	26	Greenstone	
26	30	Fault	Water
30	250	Greenstone	

(Use additional forms if necessary)

INTERVAL SHEET

Page 1 of 1

WWCR: 610

VDMR Well No: 2308

Date rec'd: 11/6/68

Sample Interval: from 0 to: 250'

PROP: U.S. Geological Survey
(Test Well #2)

Number of samples: 25

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 250'

COUNTY: Loudoun (Leesburg)

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	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: U. S. Geological Survey, Test Well #2
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Loudoun (Leesburg)

VDMR: 2308
WWCR: 610
TOTAL DEPTH: 250'

GEOLOGIC LOG

Depth
in feet

WEAVERTON FORMATION (0-30')

0-10	Quartz schist — gray and brown, partially weathered and iron-oxide stained, very fine-grained, foliated; quartz, chlorite, amphiboles and magnetite
10-20	" minor amount of weathered material
20-30	" "

CATOCTIN FORMATION (30-250')

30-40	Chlorite schist — greenish gray, very fine-grained to aphanitic, phyllitic, sheared; chlorite, feldspar, quartz biotite, amphiboles and epidote, with traces of magnetite and calcite
40-50	" with minor amounts of vein quartz
50-60	"
60-70	"
70-80	"
80-90	"
90-100	"
100-110	"
110-120	"
120-130	" decrease in amount of micaceous material
130-140	"
140-150	"

OWNER: U. S. Geological Survey, Test Well #2

VDMR: 2308

150-160	Chlorite schist — greenish gray, very fine-grained to aphanitic, phyllitic, sheared; chlorite, feldspar, quartz biotite, amphiboles and epidote, with traces of magnetite and calcite
160-170	"
170-180	"
180-190	" increase in amount of epidote
190-200	"
200-210	" sample is about 40% epidote
210-220	" sample is about 30% epidote
220-230	Chlorite phyllite — dark greenish-gray, aphanitic, foliated, micaceous, poorly fissile; feldspar, chlorite, quartz, amphiboles and epidote, with trace of magnetite
230-240	"
240-250	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Weaverton Formation	Early Cambrian
30-250'	Catoctin Formation	Early Cambrian (?)

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
November 13, 1968