

OWNER: Va. Wildlife Club Inc., Lake-of-the-Woods
(Tarnwood Division, Well #1)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Orange (Locust Grove)

VDMR: 2179
WWCR: 87
TOTAL DEPTH: 255'

GEOLOGIC LOG

Depth in
feet

0-15	Saprolite — red-brown; silty clay, weathered and iron-oxide-stained clay minerals with minor amounts of silt and sand-size quartz; traces of silt-size, dark minerals
15-30	"
30-45	"
45-48	"
48-60	"
60-75	" with fragments of partially-weathered phyllite; increase in amount of sand and silt
75-90	" " a few large fragments of vein quartz
90-105	Saprolite — tan, slightly- to well-weathered; iron-oxide-stained greenstone with a large amount of vein quartz; trace of clay
105-120	" slightly-weathered; no vein quartz
120-135	Greenstone — light blue-green-gray, microcrystalline to cryptocrystalline, lineated to slightly-foliated; feldspar, chlorite, quartz and mica
135-150	" with some brown, iron-oxide-stained fragments
150-165	Metaquartzite — gray, very fine-grained, slightly sheared; a few slickensides
165-180	Metagraywacky — gray, very fine-grained sand to silt, foliated, sheared; quartz, feldspar, chlorite and mica

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180-195	Greenstone – green-gray, cryptocrystalline; quartz, chlorite, feldspar, and mica; trace of epidote
195-210	" increase in amount of epidote
210-225	" minor amount of vein quartz, and trace of calcite
225-240	" "
240-255	Metaquartzite – gray, very fine-grained; well-sheared; slickensides

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-120'	Saprolite	
120-255'	Evington Group ?	Early Cambrian ?

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
May 15, 1968

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VDMR-2199
WWCR-87

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: Va. Wildlife Club, Inc. Mailing Address: P.O. Box 631, Springfield, Va.

TENANT: Lake of the Woods-Tarnwood Div. well #1 Mailing Address: Chancellor, Va.

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 1476, Richmond, Va.

WELL LOCATION: County Orange Approx. 300 feet ~~miles~~ west (direction) of
Lakeview Parkway and 225 feet ~~miles~~ northwest (direction) of Madison Circle

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

DATE STARTED: 2-26-68 DATE COMPLETED: 3-4-68

TYPE OF DRILL RIG USED: Rotary #65 TOTAL DEPTH 255 feet

WATER LEVEL: Stands 30 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method submersible pump
Drawdown 74 feet
Rate 103 gal. per min.
Duration 8 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 100 feet
6 1/2 inches from 100 to 255 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 105 to 107 feet
from 115 to 117 feet
from 211 to 212 feet

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

WATER: Color clear Taste ok
Odor none Temp. _____ °F

CASE SIZE: 7 OD inches from 0+2 to 100 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method pressure
Material cement & water Depth 100 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

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

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: Tarnwood #1
6 samples

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: 3-7-68

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	Top soil	
1	25	Red clay	
25	48	Rotten granite	
48	70	Solid green granite	
70	90	Broken rock (water) - - - - -	<i>Cased off</i>
90	95	Green granite	
95	97	Broken rock (water) - - - - -	<i>Cased off</i>
97	105	Green granite	
105	107	Broken rock (water)	
107	115	Green granite	
115	117	Broken rock (water)	
117	140	Green granite	
140	155	Weathered rock	
155	211	Green granite	
211	212	Broken rock (water)	
212	255	Green granite	