

OWNER: Va. Wildlife Clubs, Inc., Lake-of-the-Woods VDMR: 2180
 (Tarnwood Div., Well #2) WWCR: 88
 DRILLER: Sydnor Hydrodynamics, Inc. TOTAL DEPTH: 325'
 COUNTY: Orange (Locust Grove)

GEOLOGIC LOG

<u>Depth in feet</u>	
0-15	Loam -- red-brown, weathered and iron-oxide stained; traces of gravel-size quartz
15-30	"
30-45	Silty sand -- tan to slightly-reddish-brown; iron-oxide stained, slightly-weathered, subrounded to sub-angular; poorly-sorted, quartz, feldspar, and quartz-diorite fragments
45-60	"
60-75	"
75-90	Metamorphosed quartz diorite -- gray, fine-grained, sheared; feldspar, amphiboles, epidote, quartz, chlorite, and trace of pyrite
90-105	"
105-120	"
120-135	"
135-150	"
150-165	Schist -- greenish-gray, fine-grained, lineated to foliated; amphiboles, chlorite, epidote, feldspar, quartz, and mica
165-180	"
180-195	"
195-210	Metamorphosed quartz diorite -- gray; fine-grained; feldspar, amphiboles, epidote, quartz, and chlorite
210-225	" very sheared; slickensides; some mylonitic fragments; decrease in amounts of amphiboles and epidote

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225-240 Metamorphosed quartz diorite — gray; fine-grained;
feldspar, amphiboles, epidote, quartz, and chlorite

240-255 " sheared; slickensides, mylonitic;
increased amount of feldspar, decreased
amount of epidote and amphiboles

255-270 Schist — greenish-gray, fine-grained, lineated to foliated;
amphiboles, feldspar, chlorite, mica, epidote, and
quartz

270-285 Metamorphosed quartz diorite — gray, fine grained; feldspar,
amphiboles, epidote and quartz; trace of chlorite

285-300 " iron-oxide stains on many fragments

300-315 "

315-325 "

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-30'	Loam	Quaternary
30-75'	Silty sand	Quaternary
75-325'	Evington Group (?)	Early Cambrian (?)

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

B

UDMR - 2180
WWR - 88

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: Virginia Wildlife Clubs, Inc. Mailing Address: P.O. Box 631
Springfield, Virginia
TENANT: Lake of the Woods - Tarnwood #2 Mailing Address: Chancellor, Virginia
DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Road, Richmond, Virginia
WELL LOCATION: County Orange Approx. 230 ^{feet}/_{miles} East (direction) of
Lake View Parkway and 380 ^{feet}/_{miles} Southwest (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: 3-5-68 DATE COMPLETED: 3-18-68

TYPE OF DRILL RIG USED: Rotary #65 TOTAL DEPTH 325 feet

WATER LEVEL: Stands 36 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump
Drawdown 174 feet
Rate 58 gal. per min.
Duration 8 hrs., 0 min.

HOLE SIZE: 10 inches from 0 to 100 feet
6 inches from 100 to 325 feet
_____ inches from _____ to _____ feet
SCREEN SIZE: None inches from _____ to _____ feet

WATER ZONES: from 119 to 120 feet
186 187
from 225 to 226 feet
240 241
from 250 to 251 feet
304 305

CASE SIZE: 7" OD inches from ±2 to 100 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color Clear Taste OK
Odor None Temp. _____ °F

GROUTING: Method Pressure
Material Cement & water Depth 100 feet

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

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

WATER ANALYSIS AVAILABLE: Yes X No _____

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 Division Well #2

22 samples

LOG

FURNISHED BY: Sydnor Hydrodynamics

DATE: 3-18-68

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	15	Red Clay	
15	56	Rotten Granite	
56	60	Green Granite	
60	65	Broken zone - water	
65	102	Green Stone	cased off
102	119	Grey Granite	
119	120	Weathered zone - water	
120	135	Grey Granite	
135	187	Green Stone	
187	188	Broken - water	
188	225	Green Granite	
225	226	Broken - water	
226	239	Green Granite	
239	240	Broken - water	
240	249	Green Granite	
249	250	Broken - water	
250	255	XXXXXXXXXX Green Granite	
255	256	Broken - water	
256	290	Green - Granite	
290	304	Weathered Rock	
304	305	Water	
305	325	Green Granite	