

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2357  
C- 33

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: Town of McKenney, Well #3 Mailing Address: McKenney, Virginia  
TENANT: Zehmer property, Well #2 Mailing Address: " "  
DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Rd., Richmond, Va.  
WELL LOCATION: County Dinwiddie Approx. 75 ~~x miles~~ <sup>feet</sup> south (direction) of State Route 40 and 1/2 ~~x text~~ <sup>miles</sup> west (direction) of McKenney Corp. <sup>Limit</sup> ON  
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)  
DATE STARTED: 11/5/68 DATE COMPLETED: 11/8/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 145 feet  
WATER LEVEL: Stands 22 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pumped  
Drawdown 95 feet  
Rate 100 gal. per min.  
Duration 6 hrs., 30 min.

HOLE SIZE: 11 inches from 0 to 72 feet  
6 1/2 inches from 72 to 145 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 72 to 132 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

CASE SIZE: 7 inches <sup>OD</sup> from +2 to 72 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

GROUTING: Method pressure  
cement &  
Material water Depth 72 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_  
DRILL CUTTINGS SAVED: Yes 8 No \_\_\_\_\_

PUMP: Type 6" test turbine  
Capacity 117 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: Airline to 104' below ground level  
\* Two 1-gallon water samples sent to Froehling & Robertson

# LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 11/11/68

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	35	Sandy clay	
35	72	Weathered granite	
72	132	Firm granite	water
132	145	Gray granite	

(Use additional forms if necessary)



OWNER: Town of McKenney, Well #3  
DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Dinwiddie (McKenney)

W-2357  
C- 33  
TOTAL DEPTH: 145'

GEOLOGIC LOG

Depth  
in feet

0-43	Vein quartz — light pinkish-yellow, coarsely crystalline to granular; traces of pyrite, magnetite, and sericite
43-57	Biotite-rich vein quartz — light gray to light yellow, very finely crystalline quartz, and biotite; trace of pyrite
57-72	" weathered and iron-oxide stained
72-87	Biotite gneiss — pink and dark gray, fine grained, crystalline quartz, feldspar, and biotite; trace of pyrite and apatite; lit-par-lit structure
87-102	"
102-117	"
117-132	" minor amount of epidote
132-145	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-72'	Vein quartz	Paleozoic (?)
72-145'	Biotite gneiss	Paleozoic (?)

Virginia Division of Mineral Resources  
T. M. Gathright, Geologist  
December 30, 1968