

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2356
C- 32

MAILING ADDRESS:
B- 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 #2 Mailing Address: McKenney, Virginia

TENANT: Zehmer property, Well #1 Mailing Address: " "

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

WELL LOCATION: County Dinwiddie Approx. 200 ~~feet~~ ^{feet} ~~x miles~~ ^{x miles} south (direction) of State Route 40 and 1/4 ~~feet~~ ^{feet} ~~x miles~~ ^{x miles} west (direction) of McKenney Corp. Limit

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

DATE STARTED: 10/22/68 DATE COMPLETED: 11/5/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 360 feet

WATER LEVEL: Stands 15 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped
Drawdown 102 feet
Rate 30 gal. per min.
Duration _____ hrs., _____ min.

WATER ZONES: from 176 to 177 feet
from 206 to 207 feet
from 236 to 266 feet

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

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

WATER ANALYSIS AVAILABLE: Yes _____ No X

DRILL CUTTINGS SAVED: Yes 22 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: _____

HOLE SIZE: 11 inches from 0 to 54 feet
6 1/2 inches from 54 to 360 feet
_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet
None
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

CASE SIZE: 7 inches ^{OD} from +2 to 54 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

GROUTING: Method pressure
cement &
Material water Depth 54 feet

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

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	46	Gray sandy clay	
46	54	Red granite	
54	176	Gray granite	
176	177	Gray granite	water zone, 8 GPM
177	206	Gray granite	
206	207	Gray granite	water zone, 12 GPM
207	236	Gray granite	
236	266	Soft granite	water zone, 10 GPM
266	326	Gray granite	
326	335	Soft gray granite	
335	360	Gray granite	

(Use additional forms if necessary)

VIRGINIA DIVISION OF MINERAL RESOURCES
INTERVAL SHEET

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Well Repository No: W-2356

Date rec'd: 12/24/68

Sample Interval: from 0 to: 360'

PROP: Town of McKenney (Well #2)

Number of samples: 22

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 360'

COUNTY: Dinwiddie (McKenney)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 20	-	-	-
20 - 40	-	-	-
40 - 56	-	-	-
56 - 71	-	-	-
71 - 86	-	-	-
86 - 101	-	-	-
101 - 116	-	-	-
116 - 131	-	-	-
131 - 146	-	-	-
146 - 161	-	-	-
161 - 176	-	-	-
176 - 191	-	-	-
191 - 206	-	-	-
206 - 221	-	-	-
221 - 236	-	-	-
236 - 251	-	-	-
251 - 266	-	-	-
266 - 281	-	-	-
281 - 296	-	-	-
296 - 311	-	-	-
311 - 326	-	-	-
-	-	-	-
355 - 360	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Town of McKenney, Well #2
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Dinwiddie (McKenney)

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TOTAL DEPTH: 360'

GEOLOGIC LOG

Depth
in feet

0-20	Saprolite — light yellowish-gray quartz sand with weathered biotite, sericite, and clay
20-40	"
40-56	Apatitic biotite gneiss — 80% white and pink feldspar and clear quartz, 15% biotite, 5% apatite; trace of sericite
56-71	Apatitic biotite gneiss — light gray, well foliated, very fine grained, granular; quartz, feldspar, biotite, and apatite
71-86	"
86-101	" with large amount of pink feldspar and a trace of garnet
101-116	" "
116-131	"
131-146	"
146-161	"
161-176	"
176-191	" with traces of garnet and pink feldspar
191-206	Biotite gneiss — light gray and light pinkish-gray, very fine grained, well foliated; 80% quartz and feldspar; 18% biotite; 2% apatite and garnet; trace of pyrite
206-221	" with a very small amount of pink feldspar
221-236	" increase in amount of biotite

OWNER: Town of McKenney, Well #2

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236-257	Biotite schist — dark gray, fine grained, slickensides, iron-oxide stained fracture surfaces; trace of mylonite
257-266	"
266-281	Biotite gneiss — medium gray, very fine grained, 65% quartz and feldspar, 30% biotite, 5% apatite, garnet, and mica
281-296	"
296-311	" with minor amount of pink feldspar
311-326	" "
326-355	No sample
355-360	Biotite granite gneiss — pink and gray, 60% pink feldspar, 20% quartz, 18% biotite; minor amounts of apatite and jasper

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-40 ^t	Saprolite	—
40-326 ^t	Biotite gneiss	Paleozoic (?)
326-355 ^t	No sample	—
355-360 ^t	Biotite granite gneiss	Paleozoic (?)

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