

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2448
C- 76

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: USA Corps of Eng. - Kerr Project Mailing Address: Boydton, Va.

TENANT: Administration area, loc. #1 Mailing Address: "

DRILLER: Rankin Williamson Mailing Address: Buffalo Junction, Va.

WELL LOCATION: County Mecklenburg Approx. 1/2 ^{x feet} miles north (direction) of
John H. Kerr Dam and 1 1/2 ^{x feet} miles east (direction) of Phillis

(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 300 feet

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

YIELD TEST: Method air lift
Drawdown feet
* Rate 1 1/2 gal. per min.
Duration 1 hrs., 0 min.

HOLE SIZE: 9 inches from 0 to 21 1/2 feet
6 inches from 21 1/2 to 300 feet
 inches from to feet

WATER ZONES: from 30 to 31 feet
from 150 to 151 feet
from to feet

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

WATER: Color clear Taste
Odor none Temp. °F

CASE SIZE: 6 1/4 inches from 0 to 21 1/2 feet
 inches from to feet
 inches from to feet

WELL TO SUPPLY: (check one) Home
Farm Town School
Industry Other Gov't. Bldgs.

GROUTING: Method
Material cement Depth feet

WATER ANALYSIS AVAILABLE: Yes No X

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

DRILL CUTTINGS SAVED: Yes 30 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: * 1/2 gpm @ 80'
" " @ 120'
1 1/2 gpm @ 300'

FURNISHED BY: Rankin Williamson

DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	2	Loose brown dirt	
2	7	Red clay	
7	9	Brown sandy dirt	
9	11	Red clay	
11	16	Sand	
16	18	Sandstone	
18	300	Granite, soft	

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INTERVAL SHEET

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 Date rec'd: 2/4/69
 PROPERTY: USA Corps of Eng. - Kerr Project
 (Administration Area - loc. #1)
 COMPANY: Rankin Williamson
 COUNTY: Mecklenburg (Phillis)

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 Well Repository No: W-2448
 Sample Interval: from 10 to: 300'
 Number of samples: 30
 Total Depth: 300'
 Oil or Gas: Water: ~~X~~ Exploratory:

From-To	From-To	From-To	From-To
-	250 - 251	-	-
10 - 11	260 - 261	-	-
20 - 21	270 - 271	-	-
30 - 31	280 - 281	-	-
40 - 41	290 - 291	-	-
50 - 51	299 - 300	-	-
60 - 61	-	-	-
70 - 71	-	-	-
80 - 81	-	-	-
90 - 91	-	-	-
100 - 101	-	-	-
110 - 111	-	-	-
120 - 121	-	-	-
130 - 131	-	-	-
140 - 141	-	-	-
150 - 151	-	-	-
160 - 161	-	-	-
170 - 171	-	-	-
180 - 181	-	-	-
190 - 191	-	-	-
200 - 201	-	-	-
210 - 211	-	-	-
220 - 221	-	-	-
230 - 231	-	-	-
240 - 241	-	-	-

All intervals have both washed and unwashed samples.

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TOTAL DEPTH- 300'

GEOLOGIC LOG

Depth
in feet

0-10	No sample
10-11	Granite — brown; weathered and iron-oxide stained, medium grained; feldspar and quartz, with trace of mica
20-21	Granite — light, slightly pinkish-tan; very slightly iron-oxide stained, medium grained, non-foliated; feldspar and quartz, with very minor amounts of muscovite and biotite
30-31	"
40-41	"
50-51	"
60-61	"
70-71	Granite — pink; very slightly iron-oxide stained, medium to coarse grained, non-foliated; feldspar and quartz, with very minor amounts of biotite and muscovite
80-81	"
90-91	Biotite granite — gray; very slightly iron-oxide stained, medium grained, non-foliated; feldspar and quartz, with minor amount of biotite
100-101	" no iron-oxide stains
110-111	" "
120-121	" " slightly pinkish
130-131	Biotite granite — light pink to tannish pink; very slightly iron-oxide stained, medium to coarse grained, non-foliated; feldspar and quartz, with minor amount of biotite and trace of muscovite

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140-141	Biotite granite — light pink to tannish pink; very slightly iron-oxide stained, medium to coarse grained, non-foliated; feldspar and quartz, with minor amount of biotite and trace of muscovite
150-151	" no iron-oxide stains
160-161	" pinkish-gray; more biotite, less pink feldspar
170-171	"
180-181	" no iron-oxide stains
190-191	"
200-201	"
210-211	"
220-221	" no iron-oxide stains
230-231	" "
240-241	"
250-251	" no iron-oxide stains
260-261	" "
270-271	Biotite granite — light gray; fine to medium grained, non-foliated; feldspar, quartz, and biotite
280-281	"
290-291	" light pinkish-gray
299-300	" pinkish-tan; iron-oxide stained

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GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-10'	No sample	—
10-300'	Red Oak Granite	Precambrian (?)

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
February 10, 1969