

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-2453  
C- 81

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

P. 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

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

TENANT: Longwood - location 5 Mailing Address: "

DRILLER: Rankin Williamson Mailing Address: Buffalo Junction, Virginia

WELL LOCATION: County Mecklenburg Approx. 3 1/2 <sup>miles</sup> south (direction) of  
Clarksville and 1/4 <sup>miles</sup> west (direction) of U.S. Hwy. 15

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

DATE STARTED: 11/26/68 DATE COMPLETED: 11/29/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 210 feet

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

YIELD TEST: Method air lift  
Drawdown        feet  
Rate 15 gal. per min.  
Duration 2 hrs., 0 min.

HOLE SIZE: 9 inches from 0 to 46 feet  
6 inches from 46 to 210 feet  
       inches from        to        feet

WATER ZONES: from 85 to 86 feet  
from 95 to 96 feet  
from 178 to 179 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 46 feet  
       inches from        to        feet  
       inches from        to        feet

WELL TO SUPPLY: (check one) Home         
Farm        Town        School         
Industry        Other recreation area

GROUTING: Method         
Material cement Depth 46 feet

WATER ANALYSIS AVAILABLE: Yes X No       

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

DRILL CUTTINGS SAVED: Yes 21 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:

LOG

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	Pipe clay	
2	5	Light brown clay	
5	14	Brown clay	
14	18	Sandstone	
18	30	Brown clay	
30	44	Soft seamy rock	
60	210	Hard seamless granite	

VIRGINIA DIVISION OF MINERAL RESOURCES  
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1  
 Date rec'd: 2/5/69  
 PROPERTY: USA Corps of Eng. - Kerr Project  
 (Longwood - location 5)  
 COMPANY: Rankin Williamson  
 COUNTY: Mecklenburg (Clarksville)

C- 81  
 Well Repository No: W-2453  
 Sample Interval: from 10 to: 210'  
 Number of samples: 21  
 Total Depth: 210'  
 Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
-	-	-	-
10 - 11	-	-	-
20 - 21	-	-	-
30 - 31	-	-	-
40 - 41	-	-	-
50 - 51	-	-	-
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	-	-	-
209 - 210	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

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(Longwood - location 5)  
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W-2453  
C- 81  
TOTAL DEPTH- 210'

GEOLOGIC LOG

Depth  
in feet

0-10	No sample
10-11	Saprolite — tan; weathered and iron-oxide stained, medium to fine grained; quartz, clay and feldspar, with trace of mica
20-21	"
30-31	"
40-41	"
50-51	Metamorphosed sandstone — tan; silty, weathered and iron-oxide stained, fine grained, quartzose; quartz, with minor amounts of clay and feldspar (?), and trace of mica
60-61	"
70-71	"
80-81	" with vein quartz
90-91	"
100-101	Metamorphosed quartzite — gray; very fine grained, sheared, slickensides; quartz, with traces of mica, feldspar, pyrite and clay (?)
110-111	"
120-121	"
130-131	"
140-141	"
150-151	" increase in amount of mica; a few slightly schistose, slightly calcareous fragments
160-161	" "

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W-2453

170-171	Metamorphosed quartzite — gray; very fine grained, sheared slickensides; quartz, with traces of mica, feldspar, pyrite and clay (?)
180-181	"
190-191	" slightly calcareous
200-201	"
209-210	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-10'	No sample	—
10-41'	Saprolite	—
50-210'	Metamorphosed sandstones	Paleozoic (?)

Virginia Division of Mineral Resources  
Robert G. Willson, Geologist  
February 11, 1969