COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER P 3667

OFFICE ADDRESS: McCormick Road

WATER WELL COMPLETION REPORT clottesville, VA 22903 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 miles south (direction) of miles west (direction) of U.S. Hwy. 15 ____and___1/4 Clarksville (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 Stands ____feet below surface OR WATER LEVEL: has NATURAL flow of_____gallons per minute. YIELD TEST: Method _____ air lift HOLE SIZE: 9 inches from 0 to 46 feet 6 inches from 46 to 210 feet Drawdown _____ feet Rate _____15_ gal. per min. ____inches from _____to ____feet Duration 2 hrs. 0 min. SCREEN SIZE:____inches from _____to ____feet WATER ZONES: from 85 to 86 feet ____inches from ____to from 95 to 96 feet ____inches from ____to___ from 178 to 179 feet CASE SIZE: 6 1/4 inches from 0 to 46 feet ____inches from____to___feet WATER: Color_clear____Taste___ Odor none Temp. ______ °F ____inches from ____to___feet WELL TO SUPPLY: (check one) Home _ GROUTING: Method _____ Material cement Depth 46 feet Farm _____ Town ____ School ____ Industry____Other_recreation area PUMP: Туре _____ WATER ANALYSIS AVAILABLE: Yes X No Capacity_____gal_per_min Yes 21 No ____ DRILL CUTTINGS SAVED. 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.) ARKS:____

FURNISHED BY: Rankin Williamson PATE ALMIDALV LOGITJAJWHOMMOO

W-2453 H

	Comitak Ro	CALVER, COMMISSIONER MG	13067 JAMES 1
DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	THE REMARKS
ROM	то	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, e
0 2	2 5	Pipe clay Light brown clay	
5 14	14 18	Brown Clay	L LOCATION County Macklenburg
18 30	30 44	Brown clay Soft seamy rock	Clarksville
60	210	Hard seamless granite	E BRECTICH AND SISTANCE IN LEET OR MILES. DUTY HISHWAY OR OTHER MAR!
		OATE COMPLETED: 11/29/68	E STARTED: 11/26/68
	0.02	HT930 JATOTY	E OF DRILL RIG USED ANT TOTAL
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			from 178 to 179
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nyn yag	100	(opposity	ER ANALYSIS AVAILABLE: YOU \$_ NA
191 <u>.</u> 2081	1018PED TE	Depth of minks FOOT INTERSALS THESE SAMPLES MAY BE FURNISHED PRES OF CHARGE UPON REDUEST	

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

INTERVAL SHEET

Date rec'd: 2/5/69 Sample Interval: from 10 to: 210'

PROPERTY: USA Corps of Eng. - Kerr Project Number of samples: 21

(Longwood - location 5)

COMPANY: Rankin Williamson Total Depth: 2101

COUNTY: Mecklenburg (Clarksville) Oil or Gas: Water: XExploratory:

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All intervals have both washed and unwashed samples.

OWNER: USA Corps of Eng. - Kerr Project

(Longwood - location 5)

W-2453 C- 81

DRILLER: Rankin Williamson

TOTAL DEPTH- 2101

COUNTY: Mecklenburg (Clarksville)

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	п	
30-31	н	
40-41	п	
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	н	
70-71	н	
80-81	" with vein quartz	
90-91	н	
100-101	Metamorphosed quartzite — gray; very fine grained, sheared, slickensides; quartz, with traces of mica, feldspar, pyrite and clay (?)	
110-111	н	
120-121	ш	
130-131	11	
140-141	н	
150-151	increase in amount of mica; a few slightly schistose, slightly calcareous fragments	
160-161	II II	

OWNER:	USA Corps (Longwood	0	- Kerr Project on 5)	W-2453
170-171	Metam	slicker	ed quartzite — gray; very fine gransides; quartz, with traces of midand clay (?)	
180-181		ш		
190-191		11	slightly calcareous	
200-201		п		
209-210		11		

GEOLOGIC SUMMARY

	Rock Unit	Age	
0-101	No sample	_	
10-41	Saprolite	-	
50-2101	Metamorphosed sandstones	Paleozoic (?)	

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