## COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

P 3667

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road

C. lottesville, VA 22903 WATER Charlottesville, Virginia WELL COMPLETION REPORT OWNER: USA Corps of Eng. - Kerr Project Mailing Address: Boydton, Virginia TENANT: \_\_Ivy Hill - location 3 \_\_\_\_\_ Mailing Address: \_\_\_\_\_ DRILLER: Rankin Williamson Mailing Address: Buffalo Junction, Virginia WELL LOCATION: County Mecklenburg Approx 1 Minites northeast (direction) of and 1/4 xxxxx north (direction) of St. Rd. 825 Richardson (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON I COUNTY HIGHWAY OR OTHER MAP.) DATE STARTED: 11/20/68 \_\_\_\_\_DATE COMPLETED: 11/25/68 TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 250 feet WATER LEVEL: Stands\_\_\_\_\_feet below surface OR has NATURAL flow of\_\_\_\_\_gallons per minute. YIELD TEST: Method \_\_\_\_ pumped HOLE SIZE: 9 inches from 0 to 23 feet 6 inches from 23 to 250 feet Drawdown \_\_\_\_\_ feet \* Rate 7 1/2 gal. per min. \_\_\_\_inches from \_\_\_\_\_to \_\_\_\_feet Duration 12 hrs., 0 min. SCREEN SIZE:\_\_\_\_inches from \_\_\_\_to \_\_\_feet WATER ZONES: from 47 to 48 feet \_\_\_\_\_inches from \_\_\_\_\_to \_\_\_feet from 170 to 171 feet \_\_\_\_inches from \_\_\_\_to\_\_\_feet CASE SIZE: 6 1/4 inches from 0 to 23 feet from \_\_\_\_\_to\_\_\_\_ WATER: Color \_\_\_\_\_ clear \_\_\_\_ Toste\_\_\_\_\_ \_\_\_\_inches from\_\_\_\_to\_\_\_feet Odor none Temp. \_\_\_\_\_\_\_ °F \_\_\_\_inches from \_\_\_\_to\_\_\_feet WELL TO SUPPLY: (check one) Home \_ GROUTING: Method \_\_\_\_\_ Material cement Depth feet Farm \_\_\_\_\_ School \_\_ Industry\_\_\_\_Otherrecreation area Type submersible PUMP: Capacity 7 1/2 gal per min WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_No\_X\_\_\_ Yes 25 No \_\_\_ Depth of intake \_\_\_\_ DRILL CUTTINGS SAVED: (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: \* 4 gpm @ 80' by air lift 4 gpm @ 120' by air lift 7 1/2 gpm @ 180' by air lift

7 1/2 gpm @ 250' by air lift

COMMONWEALTIDOGITLABWHOMMOD

FURNISHED BY: Rankin Williamson

DATE

DEPTH TYPE OF ROCK OR SOIL PENETRATED REMARKS (feet) (gravel, clay, etc., hardness, color, etc.) (water, caving, shot, screen, sample, etc.) FROM TO Moist yellow clay E goithard - Hill vvI Tuknan 0 5 5 1/2 White flint rock 5 1/2 18 Brown sand 45 Medium hard granite 18 163 Blue slate 45 Richardson 163 180 Granite, medium hard and own with a sale (GIVE DIRECTION AND DISTANCE IN FEET OR 250 180 TYPE OF DRILL RIGUSED - SIX POLARY Stones world teel sonote ESmort ... ledustry \_\_\_\_\_\_Oregreetion area BIT GB991HB OBELL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE OFFINE EXPRESS COLLECT SAMPLE BAGS ARE FURNISHED TREE OF CHARGE UPON RECUEST anke \* 4 qpm C 80! by air li als ye 'OSI ® rargg b 7 1/2 apan @ 180' by sir lift 7 1/2 epra @ 250' by Mr 11ft (Use additional forms if necessary)

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

#### INTERVAL SHEET

Well Perository No: W 3451

Page 1 of 1 Well Repository No: W-2451

Date rec'd: 2-4-69 Sample Interval: from 10 to: 250'

PROPERTY: USA Corps of Eng. - Kerr Project Number of samples: 25

(Ivy Hill - location 3)

COMPANY: Rankin Williamson Total Depth: 250'

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

From-To	From-To	From-To	From-To
	249 - 250	-	~·:
10 - 11	-		A
20 - 21	-	類	: <del>É</del> .
30 - 31	) <del>**</del>	100 mg	-
40 - 41	7 <u>2</u>	<b>w</b>	<b>=</b>
50 - 51	_	-	_,
60 - 61	~		
70 - 71	<del>"</del>	-	1 <del>70</del> 0
80 - 81		-	
90 - 91	-	s <b>=</b> '	-
100 - 101			
110 - 111	<del></del>		=
120 - 121	-	-	-
130 - 131		_	<u></u>
140 - 141	3#2 1 <b>=</b>	20 CO	**************************************
150 - 151	- : <u>-</u>	-	-
160 - 161	-	X <b>=</b> 2	n <u>=</u> n
170 - 171	<sup>8</sup> i <del>a</del> .		=
180 - 181	-	-	_
190 - 191	9-		-
200 - 201	? <del>=</del> .	•	, <del>-</del>
210 - 211	: <u>-</u>	1-2	_
220 - 221	) <b>—</b> .	•	<b></b> :
230 - 231	s <del></del>	^ <u>.</u>	-
240 - 241	j <b>⊕</b> .	-	- 🚊

All intervals have both washed and unwashed samples.

OWNER: USA Corps of Eng. - Kerr Project

(Ivy Hill - location 3)

DRILLER: Rankin Williamson

COUNTY: Mecklenburg (Richardson)

W-2451

C- 79 TOTAL DEPTH- 250'

## GEOLOGIC LOG

Depth in feet			
0-10	No sample		
10-11	Saprolite— reddish-tan; weathered and iron-oxide stained, medium grained; quartz, feldspar, clay and mica		
20-21	Weathered granite — tan; slightly weathered and iron- oxide stained, medium to coarse grained, non- foliated; feldspar, quartz and biotite		
30-31	Biotite granite — gray; medium to coarse grained, non-foliated; feldspar, quartz and biotite, with traces of epidote (?) and blue quartz		
40-41	11		
50-51	11		
60-61	II .		
70-71	ti .		
80-81	" a few slightly iron-oxide stained fragments		
90-91	п		
100-101	II .		
110-111	n .		
120-121	" tannish-gray, slightly iron-oxide stained		
130-131	n ,		
140-141	tannish-gray, slightly iron-oxide stained		
150-151	11		
160-161	sheared		

OWNER:	USA Corps of	<b>.</b>	W-2451
170-171	Phyllon	nite — very light gray; aphanitic to fine grain very sheared, slickensides; feldspar, quar and mica (?)	
180-181	Phyllon	nite and sheared vein quartz — gray and whi aphanitic, foliated, micaceous phyllonite an sheared, coarse grained vein quartz; slicke sides; biotite, sericite, feldspar, and quar with trace of pyrite	nd en-
190-191	Biotite	granite — gray; fine to medium grained, sha few slickensides; feldspar, quartz and bid with traces of blue quartz, pyrite, and chlo	otite,
200-201		TI.	
210-211		II .	
220-221		TI.	
230-231		ti .	
240-241		III.	
249-250		u	

# GEOLOGIC SUMMARY

	Rock Unit	Age
0-10 <sup>t</sup>	No sample	_
10-11 <sup>t</sup>	Saprolite	
20-21 <sup>r</sup>	Weathered granite	
30-2501	Red Oak Granite	Precambrian (?)

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