## COMMONWEALTH OF VIRGINIA

MAILING ADDRESS: DIVISION OF MIN  B 3667  DIVISION OF MIN  JAMES L. CALVER	N AND ECONOMIC DEVELOPMENT  ERAL RESOURCES OFFICE ADDRESS:  R, COMMISSIONER McCormick Road  OMPLETION REPORT Charlottesville, Virginia
GATE ALTE	Tanga sayo bu ayan subasta
OWNER: U.S. Forest Service	Mailing Address: 920 S. Jefferson Street
TENANT: Cascades Recreation Area	
DRILLER: J. T. Kesler Drilling Company	Mailing Address: Rt. 4, Box 403, Roanoke, Va.
WELL LOCATION: County Giles notisen	Approx. 22 miles northeast (direction) of
Pembroke and and	feet at end (direction) of St. Rd. 623
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TW	
DATE STARTED: March 1969	DATE COMPLETED: 3/28/69
TYPE OF DRILL RIG USED: air drill	TOTAL DEPTH 125 feet
WATER LEVEL: Stands 57 feet below	surface <u>OR</u>
has NATURAL flow of	gallons per minute.
YIELD TEST: Methodpump	HOLE SIZE: 8 inches from 0 to 63 feet
Drawdown16feet	6_inches from63to100feet
Rate 20 gal. per min.	5inches from 100_to 125_feet
Duration 24 hrs., min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: from 70 to 125 feet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtofeet	CASE SIZE: 6 inches from 0 to 63 feet
WATER: ColorTaste_sulfur*	
OdorsulfurTemp°F	inches fromtofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Methodpressure
Farm Town School	cement & 70 feet
IndustryOther_Gov <sup>i</sup> t. Rec. Area	PUMP: Type 1 H. P. Myers
WATER ANALYSIS AVAILABLE:YesX_No	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes 13 No	Depth of intakefeet
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT IN OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	NTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS

ARKS: \* After 24 hrs. test there was a residue deposited on inside of pump pipe

FURNISHED BY:

W-2484

0-31

J. T. Kesler Drilling Company DATE:

March 29, 1969

0 40 50 73 1		Clay and sandstone boulders Decomposed purple shale and Fractured limestone Fractured limestone with for changing color for a few feet	d boulders	(water, caving, shot, screen, sample, etc.
40 50 73 1 100 1	50 73 00 25	Decomposed purple shale and Fractured limestone Fractured limestone with for changing color for a few feet	d boulders	
1		Gray limestone	at a time	ELL LOCATION County Giles Pembroke
		Charles and Charles and the second of the se	1	
1		DATE COMPLETED: 3/28/69		TE STARTED: March 1969
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### VIRGINIA DIVISION OF MINERAL RESOURCES Box 3667, Charlottesville, VA 22903

#### INTERVAL SHEET

Page 1 of 1 Well Repository No: W=2484

Date rec'd: 4/11/69 Sample Interval: from 10 to: 124

PROPERTY: PROP: U.S. FOREST SERVICE Number of samples: 13

(CASCADES REC. AREA)

COMPANY: COMP: J. T. KESLER DRILLING CO. Total Depth: 1251

COUNTY: COUNTY: GILES (PEMBROKE) Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
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577-ci			· · · · · · · · · · · · · · · · · · ·

All intervals have both washed and unwashed samples

OWNER: U.S. Forest Service (Cascades Rec. Area)

W - 2484

DRILLER: J. T. Kesler Drilling Company

C-31

COUNTY: Giles (Pembroke)

TOTAL DEPTH-1251

### GEOLOGIC LOG

Depth		
in	feet	

	ALLUVIAL DEPOSITS (0-50')			
	10	Gravelly sand	brown, oxidized, fine-grained to pebble- size gravel; composed of poorly-sorted quartzite fragments, most of which are iron-oxide stained and a few of which are ferruginous	
	20		with decrease in amount of fine- grained sand, increase in amount of pebble-gravel material	
	30	Gravel	brown to maroon-brown, oxydized, pebble to coarse gravel with minor amounts of sand and silt; composed of quartzite and ferruginous sandstone fragments	
	40		п	
	50		11	
	60		No sample	
MARTINSBURG FORMATION (70' - 124')			(70¹ - 124¹)	
	70	Calcilutite	dark gray; a few fissile fragments	
	80	Calcareous shale	brown to grayish-brown; silt and clay-size grains, poor to good parting; a few fossil fragments	
	90	Calcilutite	dark gray; minor amount of calcareous shale; a few fragments have fracture cleavage	
	100		" with a few fragments of vein calcite	
	110		only a trace calcareous shale; minor	

Calcilutite -- dark gray; minor amount of vein calcite; a few fragments have fracture cleavage

amount of vein calcite

OWNER: U.	S. Forest Service	ce (cascades Rec. Area)	W-2484
120 d	Calcilutite	Dark gray; minor amount of ve a few fragments have fracture	
124		TI .	
125		No sample	

# GEOLOGIC SUMMARY

	Rock Unit	Age
0-5011	Alluvial gravels	Recent
50-701	No samples	
70-1241	Martinsburg Formation	Late Ordovician
124-1251	No sample	PF 400 PG

Virginia Division of Mineral Resources Robert G. Willson, Geologist June 5, 1969