



WATER-RIGHT DOCKET

Chesapeake & Ohio Canal National Historical Park

Docket No: 4

FOUR LOCKS

State Water Rights Documentation

00-00-0000: application for permit to appropriate and take ground water; 1963

APPLICATION FOR PERMIT TO APPROPRIATE AND TAKE GROUND WATER

Hagerstown Md.

June 5 1963

To the Department of Geology, Mines and Water Resources of Maryland:

IN COMPLIANCE WITH THE PROVISIONS OF CHAPTER 526, ACTS OF 1933,

United States of America, Chesapeake and Ohio Canal National Monument

(Here give name of applicant)

479 North Potomac Street, Hagerstown, Maryland

(Here give address of applicant)

HEREBY MAKE APPLICATION FOR THE PERMISSION OF THE DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES (Address: The Johns Hopkins University, Baltimore 18, Md.) TO USE THE FOLLOWING AMOUNTS OF WATER FROM

two wells, 165 and 205 feet deep, each 6" in diameter

(Here state number of wells and proposed depths and diameters)

May thru October - maximum 200, minimum 40, average 100; November thru

(Here give the estimated maximum, minimum,

April - maximum 35, minimum 0, average 5 gallons

and average daily water consumption

for each month of the year)

THE WATER WILL BE TAKEN FROM WELLS LOCATED AT

Antietam Creek campground and Four Locks, along the C & O Canal

(Here describe the locations of the wells)

THE WATER WILL BE USED FOR THE FOLLOWING PURPOSES:

recreation and fire protection

(Here give a general description of the uses

to which the water is to be put)

Edwin M. Dale
Signature of Applicant Edwin M. Dale

Superintendent

479 North Potomac Street, Hagerstown, Md.

Address of Applicant

STATE OF MARYLAND
BOARD OF NATURAL RESOURCES



DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES
102 LATROBE HALL, THE JOHNS HOPKINS UNIVERSITY
BALTIMORE 18, MARYLAND

DATE	7/2	
TIME		
NAME		
ADDRESS		
TELEPHONE	BELMONT 8-077	
REMARKS		
FILE		
DATE	7/2	
TIME		
NAME		
ADDRESS		
TELEPHONE		
REMARKS		
FILE		

PERMIT TO APPROPRIATE AND TAKE GROUND WATER

AND NOW, to wit, June 28, 1963 the application of United State of America, Chesapeake and Ohio, Canal National Monument, 479 North Potomac Street, Hagerstown, Maryland, hereinafter referred to as "Applicant", having come on for public hearing before the Department of Geology, Mines and Water Resources of the State of Maryland, hereinafter referred to as "Department", after due notice in compliance with Chapter 526, Acts of 1933, permission is hereby granted the Applicant to take and use an average of 400 gallons of water a day and not to exceed 1,000 gallons in any one day during the 12 months of the year from 2 wells having a diameter of 6 inches and depth of about 200 feet, located on the premises of the Applicant at Four Locks and Antietam Creek, along the C and O Canal, Washington County, Maryland for recreation and fire protection purposes.

The Permit is limited to the taking and use of the quantities of water herein specified from the 2 wells herein described on the described premises and to the purposes herein described. This Permit is further subject to all rules and regulations now in effect or that may be subsequently adopted by the Department and may be revoked at any time that it may be at variance with the policy and the laws of the State, or that the Applicant may fail to comply with the provisions of the Permit.

This Permit is valid only for use by the Applicant and may be transferred to another only upon written permission obtained beforehand from the Department.

In Witness Whereof, the Department has hereunto caused to be attached the signature of this duly authorized officer, the 28th day of June 1963.

Ernst Cloos
Acting Director

Supporting Hydro Data

USGS-WBD
Form 61

ANALYTICAL STATEMENT

COUNTY Washington

FN: Wa-BF 25 Md GW

LAS NO. DC-1677

Location Four Locks, Md.

Date of collection Feb. 6, 1963

		spm		ppm	
Source (type of well) Drilled	Ignition Loss	Color	2	SiO ₂	11
Owner National Park Service	Dissolved Solids:	Residue at 180°C	275	Fe	.00
		Calculated (Sum)	277	Mn	.00
	Tons per Acre Foot	Hardness as CaCO ₃	250	Ca	3.54
Date drd 1/63	Cased to 10 ft	Non-carbonate Hardness	31	Mg	1.46
Depth 197'	Diam 6"	Specific Conductance	477	Na	.07
Water level 39.76 ft	Sampled after pumping 22 hrs	Al	.1	K	.04
Yield 17 GPM (meas or est)	Discharge line	Cu	.00	Na+K	5.11
Appearance Clear	Temp (°F) 54	Zn	.5	HCO ₃	4.39
Collector C. Laughlin	Checked from original record	Alk as CaCO ₃	220	CO ₃	.00
Chemist S. Rettig - Feltz		Free CO ₂ Calc	21	SO ₄	.48
Date completed Mar. 19, 1963				Cl	.05
Checked by D. Fisher				F	.02
Date transmitted				NO ₃	.26
				P as PO ₄	.00

Test well at Four locks

Started well at 9:00, January 1, 1963, drilled 85', quit at 8:00.
 Returned Jan. 3, at 8:00, drilled 120', struck water at 195',
 approximately 100 gallons per min. Flowed water for one hour,
 set 10 feet of casing. Stopped at 5:30, returned Jan. 4, at
 8:00 made equipment ready for moving. Moved from location at
 12:00 noon.

Record of stone and clay formation:

5' Limestone rock
 8' Small opening, Limestone and clay
 10' Limestone and clay mixed
 15' grey and white limestone
 20' " " "
 25' " " "
 30' " " "
 35' " " "
 40' " " "
 45' " " "
 50' " " "
 55' " " "
 60' " " "
 65' " " "
 70' " " "
 75' " " "
 80' " " "
 85' " " "
 90' " " "
 95' changed to cement grey stone
 100' " " " "
 105' " " " "
 110' light grey stone formation
 115' " " "
 120' " " "
 125' " " "
 130' " " "
 135' dark grey stone
 140' " " "
 145' " " "
 150' very small opening, small amount of water
 155' dark grey limestone
 160' " " "
 165' " " "
 170' " " "
 175' " " "
 180' " " "
 185' " " "
 190' " " "
 195' struck large stream of water
 200' "
 205' (10' pocket for stream)

STATE OF MARYLAND
DEPARTMENT OF GEOLOGY, MINES AND WATER RESOURCES
The Johns Hopkins University
BALTIMORE 18, MARYLAND

49851

APPLICATION FOR PERMIT TO DRILL WELL

An application must be submitted and permit received before drilling a well

Owner C. O. Canal Trust Permanent Driller Jefferson Railway Inc
Street or R. F. D. 479 N. Baltimore St. Street or R. F. D. Box 325 Williamsport Md.
Post Office Hagerstown, Md. Post Office Williamsport Md.
Date Nov. 12, 1962

Quantity of Water Needed (G. P. M.) 5
Use for Water Test Well
Approximate Depth of Well (feet) 150
Method of Drilling to be used rotary

Location of Well
County Washington
Nearest Town Charlottesville
Distance from Town six miles
Direction from Town South

PERMIT TO DRILL WELL

(Permit to be returned to Driller)

NOT TO BE FILLED IN BY DRILLER

Permit No. 49851

Samples of Cuttings ☒ Yes
Required by Department ☐ No

Owner Requires Permit ☒ Yes
to Appropriate Water ☐ No

Owner Has Permit ☐ Yes
to Appropriate Water ☒ No

The applicant is herewith granted a permit to drill this well subject to the conditions stipulated.

Ernest C. Cross
Acting Director
Date Nov. 16, 1962

Special conditions that may apply:

Test Well only

Description of Location of Well
(This information should be definite enough to permit locating well on a county map)

Near what road C. O. CanalOn which side of road ✓
(North, East, South, West)Distance from road 100

Draw a sketch below showing location of well in relation to nearby towns, roads and streams with north in the direction of the arrow, and give distance from well to nearest road junction or stream crossing shown on the sketch.



(DUPLICATE)

Docket Information

Number of Documents in Docket 5

Documents Dated from to

Docket Compiled: 2/3/2011