



WATER-RIGHT DOCKET

Chesapeake & Ohio Canal National Historical Park

Docket No: 1

LOCKHOUSE NO. 24, SENECA AREA

State Water Rights Documentation

00-00-0000: attached herewith, please find and amended permit to appropriate and use ground water; 1967

COMMISSION
MAURICE SIEGEL
CHAIRMAN
J. HENRY SCHILPP
R. LAMAR GREEN
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DIRECTOR
P. W. MCKEE

STATE OF MARYLAND
DEPARTMENT OF WATER RESOURCES

STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

September 8, 1967

United States
Department of Interior
National Park Service
Washington Planning and
Service Center
1730 North Lynn Street
Arlington, Virginia 22209

Attn: Richard L. Stanton
Chief, Office of Land
and Water Rights

Re: L54 WSC-OLW

Dear Mr. Stanton:

Attached herewith, please find an amended Permit to Appropriate and Use Ground Water. This permit has been amended in accordance with your above reference, dated September 5, 1967.

This office will appreciate your returning Document number M-68-GAP-2 for cancellation.

Very truly yours,


Guy E. Lerner
District Engineer

GEL:ngj
Enclosure

WR-AP-7

DIRECTOR
P. W. MCKEESTATE OF MARYLAND
DEPARTMENT OF WATER RESOURCESSTATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401PERMIT TO DRILL WELL NO. M-68-W-33APPROPRIATION PERMIT NO. M-68-GAP-2 (Amended)

PERMIT

TO APPROPRIATE AND USE GROUND WATER

Effective August 2, 1967 the application of The U.S. of America,
in and for an area known as the Chesapeake & Ohio Canal, being a
part of the National Capitol Parks
hereinafter referred to as "Applicant", having been duly made and submitted to the Department of Water
Resources, hereinafter referred to as "Department", in compliance with Chapter 73 of the Acts of 1964,
permission is hereby granted the Applicant to appropriate and use an average of 750 gallons
of water per day and not to exceed 1,000 gallons in any one day during each of the twelve
months of the year from 1 well(s) having a diameter of 6 inches and a depth of
125 feet, located on the premises of the Applicant at Seneca, Maryland
Lockhouse #24
said water to provide Sanitary facilities

This Permit is issued subject to the following conditions:

1. The appropriation and use of ground water is limited to the quantities of water herein specified, from the well herein described, and on the premises and for the purpose herein indicated.
2. The Permit is valid only for use by the Applicant and may not be transferred to another unless written permission for such transfer is obtained from the Department.
3. The Permit shall become null and void if the privilege granted by the Permit is not exercised within one year from the date hereof, except that this time limit may be extended for good cause at the discretion of the Department.
4. The 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 any time that it may be at variance with the policy and laws of the State, or that the Applicant may fail to comply with the provisions of the Permit.
5. Nothing herein constitutes a waiver of any other right which may be vested in the name of the U.S. of America.

Paul W. McKee
 Jek. Paul W. McKee, Director

Supporting Hydro Data

W. B. HILTON

FREE ESTIMATES -- PHONE DIAMOND 9-2133

W. C. HILTON

HILTON'S
WELL DRILLING
DOMESTIC AND INDUSTRIAL
LATEST TYPE ROTARY DRILLING
BARNESVILLE, MARYLAND 20708

Sept. 6-1967

Well log for well, Seneca Maryland, Natch. Capital Region Center

9-5/8 " well drilled to 40 feet
0 - 16 ft. Earth & loose rock,
16 - 30 ft. gravel,
30 - 35 ft. soft red rock
35 - 40 ft. red rock & sand stone
40 - 124 ft. red rock & gray sand rock,
First water 26 feet, 12 G.P.M. cased off
Second water 109 feet, 50 G.P.M.
Casing set at 43 feet in 9-5/8 inch well, 81 feet 6 inch well, total 124
Well grouted to 45 feet, 22 bags of cement,
Start of pumping test, water level from ground 26 ft.,
pumping at 30 G.P.M. water level from ground 34 ft. Testing 6 hours.
We would recommend setting pump 100 ft. from top of casing, Capacity
up to 25 G.P.M.
m

We think this a very good well, the water was clear when pumping.

Hilton Well Drilling

Other Supporting Information

Robertson
D. A. RWR

L54 WSC-OLW

September 12, 1967

Mr. Paul W. McKee, Director
Maryland Department of Water Resources
State Office Building
Annapolis, Maryland 21401

Dear Mr. McKee:

Attached is the Document number M-68-GAP-2 for cancellation per your
request dated September 8, 1967.

Thank you for the prompt transmittal of the amended permit.

Sincerely yours,

Richard L. Stanton

Richard L. Stanton
Chief, Office of Land
and Water Rights, WSC

WSC (Water Rights) Correspondence

Deln ~ va Drilling Comp~ , Inc.P. O. BOX 125
BRIDGEVILLE, DELAWARE 19933PHONE (302)
337-8254*Water Well Contractors**Sales — COMPLETE WATER SYSTEMS — Service*

SOLD TO

DATE October 9, 1970INV. # 732U.S. Dept. of the Interior
National Park Service
4228 Wisconsin Ave. N.W.
Washington, D.C. 20242

MW-1

Att: Gary Moore

TERMS - NET 30 DAYS

SERVICE CHARGE OF 1% PER MONTH AFTER 30 DAYS

Seneca, Maryland (C & O Canal) Contract No. 14-10-6:990-313

<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>TOTAL</u>
1	138'	\$24.00	\$ 3,312 00
2	128'	5.60	716 80
3	10	36.00	360 00
4	45	2.00	90 00
5	43'	1.50	64 50
6	50'	3.20	160 00
7	4 hours	24.00	96 00
8	8 hours	24.00	192 00
9	4 hours	18.00	72 00
10	NONE		NONE
Total			<u>\$ 5,063 30</u>

Interest at the rate of 1% per month, equivalent to 12% per annum, charged on accounts that are 30 days old.

DELMARVA DRILLING CO., INC.

BOX 456, DENTON, MARYLAND - PHONE (301) 479-1678

WELL DRILLING & PUMPSDATE 9/22/70

LOG OF Steel WELL IN 10½ INCH HOLE
 CUSTOMER Dept. of the Interior DRILLER Kanarr & Gleaton
 ADDRESS Seneca, Md.
 LOCATION 3' N. of Parking Lot, 8' W. of Canal

START	STOP	FORMATION
0	1	top soil
1	9	fill dirt (everything)
9	18	hard sandy red clay
18	23	gravel
23	37	hard sandy red clay
37	96	sand stone
96	106	sandy red clay
106	117	sand stone
117	122	sand stone w/shell
122	136	sand stone

CASING & SCREEN RECORD

0-128

Plain 128-138Screen 128-138

Plain

Screen

Plain

Screen

Plain

Screen

Plain

Screen

Plain

Screen

Plain

Screen

Plain

Screen

Plain

Screen

Cement Grout 3-50Clay Seal 50-90Gravel Pack 90-138Static Water Level 7 FeetG. P. M. Pumped 10Water Level While Pumping 61 Feet# Bays of Clay Used 6

Type Gravel Pack Used _____

Approx. Gal. Water Used To Drill _____

Guarantee With Turbine from Test _____ G. P. M.

Water Appearance (Clear, Clayey, Sandy, Odor, Taste) _____

Type Casing Steel

Blown or Not _____

Time To Drill _____

Height Berm _____

Spacer Block Size & Locations _____

REMARKS:

Transmissivity = 91 gpd

ft

Specific Capacity = 0.16 gpm

ft



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
EASTERN SERVICE CENTER
4228 Wisconsin Avenue NW.
Washington, D.C. 20242

154 ESC-LW

April 22, 1970

Memorandum Report

To: To Files

From: Hydraulic Engineer, Office of Land Acquisition and Water Resources, ESC

Subject: Production well at Seneca - C & O Canal

The subject was drilled on or about September 1967. The physical data of the well is as follows:

Size	6 inches
Depth	124 feet
Cased and grouted	43 feet
Depth of pump	100 feet

The driller's log indicates that the lithology of the hole below the depth of 30 feet consists of soft red rock and gray sandstone.

Visual inspection of a water sample collected on April 13 shows a high degree of turbidity caused by red suspended colloids which settle out in approximately 12 hours.

Water sample is being forwarded to a local laboratory for complete standard chemical analysis.

In view of the relatively short time available to correct the turbid situation the following temporary course of action has been initiated with the concurrence and funding from George Washington Memorial Parkway.

By Purchase Order #6-960-10-2306 for an estimated \$130.00 the following filter equipment has been ordered from AMF Cuno Division in Washington, D. C.

Model CT-102 Cartridge Type Filter Housing
Model 2278-B3-2 Cellulose Filter (5 microhms)

The units are to be airfreighted to National Airport with instructions that on arrival freight officials are to contact Mr. Curran, George Washington Memorial Parkway, by telephone for pickup. We believe that we can gain a day or two by this method of delivery instead of relying on regular mail schedules.

Upon its arrival, this office will offer assistance in locating the installation area on the waterline. Mr. Jack Longworth, Office of Environmental Planning and Design, will be available for assistance.

A more permanent correction of the turbid situation can be made by abandoning the existing well and drilling a new well in its place to the following general specifications:

- Estimated depth - 135 feet.
- Bore hole to be drilled to at least 12-1/4 inches in diameter.
- The well is to be cased with 6-inch coupled casing from the surface to an estimated depth of 115 feet.
- A 10-foot long, 4-inch diameter stainless steel well screen to be secured in place.
- The entire well casing and screen from a depth of at least 50 feet below ground surface to a depth 5 feet below the well screen is to be encased in a gravel pack to stabilize the natural formation.
- The annular space from the surface to a depth of 50 feet is to be grouted per U. S. Public Health Standards.

Estimated cost of new well including cost of abandoning existing well is \$5,000.

Should funds be made available from either the Maintenance or Construction Accounts, this office will offer their assistance in supervising the drilling contract.

Garland Moore

cc:
General Superintendent, National Capital Parks
Superintendent, George Washington Memorial Parkway
ESC-EP&D - Attention: Mr. Longworth
ESC-OPM
Chief, Division of Water Resources, WASO

Docket Information

Number of Documents in Docket 8

Documents Dated from 4/22/1970 to 4/22/1970

Docket Compiled: 2/3/2011