



# WATER-RIGHT DOCKET

## Chesapeake & Ohio Canal National Historical Park

Docket No: 38

LOCK 57, LITTLE ORLEANS WELL

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 19\_\_

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

IN COMPLIANCE WITH THE PROVISIONS OF CHAPTER 526, ACTS OF 1934,

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

one well, 145 feet deep, 6" diameter  
(Here state number of wells and proposed depths and diameters)

November thru April - maximum 10, average 2, minimum 0; May and October -  
(Here give the estimated maximum, minimum,

maximum 15, average 4, minimum 0; June thru September - maximum 50, average  
and average daily water consumption

20, minimum 0 gallons  
for each month of the year)

THE WATER WILL BE TAKEN FROM WELLS LOCATED AT

campground adjacent to Lock 57 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

## Supporting Hydro Data

15025-WB2  
Form GM

## ANALYTICAL STATEMENT

COUNTY **Allegany**LAB NO **DC-1678**FN: **All-BI 15' Md GW**Location **Little Orleans, Md.**Date of collection **Feb. 10, 1963**

|                                      |                                                   | e.p.m.                            |                      | ppm         |            |
|--------------------------------------|---------------------------------------------------|-----------------------------------|----------------------|-------------|------------|
| Source (type of well) <b>Drilled</b> | Ignition loss                                     | Color <b>4</b>                    |                      |             |            |
| Owner <b>National Park Service</b>   | Dissolved Solids                                  | Residue at 180°C <b>173</b>       | SiO <sub>2</sub>     |             | <b>23</b>  |
| Date drilled <b>12/62</b>            | Calculated (Sum) <b>172</b>                       | Tons per Acre Foot <b>125</b>     | Fe                   |             | <b>.00</b> |
| Depth <b>145'</b>                    | Hardness as CaCO <sub>3</sub> <b>3</b>            | Non-carbonate Hardness <b>7.2</b> | Mn                   |             | <b>.00</b> |
| Diam. <b>6"</b>                      | Specific Conductance (microhm at 25°C) <b>277</b> | Na + K                            | Ca                   | <b>1.77</b> | <b>36</b>  |
| Water level <b>32.57</b>             | Al <b>.1</b>                                      |                                   | Mg                   | <b>.73</b>  | <b>8.9</b> |
| Sampled after pumping <b>7</b> hrs   | Cu <b>.00</b>                                     |                                   | No                   | <b>.35</b>  | <b>8.1</b> |
| Yield <b>17</b> GPM (max or est)     | Zn <b>.2</b>                                      |                                   | K                    | <b>.03</b>  | <b>1.2</b> |
| Pt of coll <b>discharge pipe</b>     | Alk as CaCO <sub>3</sub> <b>122</b>               |                                   |                      | <b>2.88</b> |            |
| Appearance <b>Clear</b>              | Free CO <sub>2</sub> Calc <b>15</b>               |                                   | HCO <sub>3</sub>     | <b>2.44</b> | <b>149</b> |
| Temp (°F) <b>55.0</b>                | checked from original record                      |                                   | CO <sub>3</sub>      | <b>.00</b>  | <b>0</b>   |
| Collector <b>C. Laughlin</b>         |                                                   |                                   | SO <sub>4</sub>      | <b>.44</b>  | <b>21</b>  |
| Chemist <b>S. Rettig - Feltz</b>     |                                                   |                                   | Cl                   | <b>.02</b>  | <b>.7</b>  |
| Date completed <b>Mar. 19, 1963</b>  |                                                   |                                   | F                    | <b>.01</b>  | <b>.1</b>  |
| Checked by <b>D. Fisher</b>          |                                                   |                                   | NO <sub>3</sub>      | <b>.90</b>  | <b>.9</b>  |
| Date transmitted                     |                                                   |                                   |                      | <b>2.91</b> |            |
|                                      |                                                   |                                   | P as PO <sub>4</sub> |             | <b>.05</b> |

## Test well at Lock 57. (Little Orleans.)

Started well 8:30, Dec. 3, 1962, drilled 145 feet, quit at 6:30 with approximate 40 to 50 gallons a minute. Returned Dec. 4, 1962 at 8:15, blowed water for one hour. Made equipment ready for moving. Moved from location at 10:45, Dec. 4, 1962 to second test well.

## Record of stone and clay formation

5' Reddish brown clay  
 10' Reddish brown clay  
 15' " " "  
 20' " " "  
 25' " " "  
 30' Light brown clay  
 35' Started in light tan sand rock  
 40' Light tan sand rock  
 42' Rock change to greyish white  
 45' rock changed to dark grey  
 50' dark grey  
 55' changed to grey and white  
 60' opening small amount water, approximately  $\frac{1}{2}$  gal. a min.  
 65' rock turned to dark grey  
 70' dark grey  
 75' dark grey  
 80' rock changed to rust red  
 85' rust red  
 90' rust red  
 95' rust red  
 100' rust red  
 105' rust red  
 110' changed to dark grey  
 115' changed to grey  
 120' grey  
 125' changed to greyish white  
 130' greyish white  
 135' greyish white  
 140' greyish white  
 145' opening, rock turned white and brown, sufficient amount of water was produced.

Docket Information

Number of Documents in Docket 4

Documents Dated from to

Docket Compiled: 2/7/2011