

How Do I Find the Well Log For My Drinking Water Well?



What is a Well Log?

A well log, or drilling log, is a detailed construction record of a water supply well. Well logs differ from state to state, but contain the same basic information. Well logs contain owner and location information, construction details such as depth and drilling method used, well production information, and geologic formations encountered. In Michigan, well drillers have been required to submit well logs since 1965.

Where Can I Find My Well Log?

The State of Michigan maintains an online database, called Wellogic, for well logs submitted from January 2000 and after. Well logs older than 2000 may also be in Wellogic. The State of Michigan also maintains PDF files of scanned well logs for older wells that are not in Wellogic.

Washtenaw County may also have well logs in their well and septic record database.

Using Wellogic

The Michigan Department of Environmental Quality's Wellogic system can be accessed by visiting <https://secure1.state.mi.us/wellogic>.

Your search can be narrowed by using the drop down menus to enter County and Township on the upper right side, and then entering the well address on the left. Searching by Street Number only may yield better results, in case there is a typo or inconsistency in the spelling of the Street Name.

The screenshot shows the Wellogic System search interface. On the left, there is a 'Log In' section with fields for 'User ID' and 'Password', and a 'Log In' button. Below it are links for 'Request an Account', 'Forgot User ID', and 'Forgot Password'. Further down are 'Links' and 'Documents' sections. The main search area is titled 'Search Water Wells' and includes a 'Basic Information' section with fields for 'Search Type' (set to 'Water Well Records'), 'Well ID', 'Permit No.', and 'Import ID'. Below this is the 'Well Address' section, where the 'Street Address' field is circled in red. To the right is the 'Well Location' section, which has dropdown menus for 'County' (set to 'Washtenaw'), 'Township' (set to 'Select Township'), and 'Town/Range'. A dropdown menu is open for 'Township', showing a list of Michigan counties. Red arrows point to the 'County' and 'Township' dropdowns. Below the 'Well Location' section are sections for 'Contractor' and 'Well Detail'. At the bottom right are 'Search' and 'Reset' buttons.

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Finding Older, Scanned Records

While some well logs older than 2000 may be in the Wellogic system, many are not and must be found in the scanned records. The State of Michigan grouped older logs by Township and Section. Start by clicking on “DEQ Scanned Well Records (pre-2000)” in the menu on the left side, enter the County, Township, and Section your well is located in on the left, and then click “Select”.



Log In

User ID:
Password:

[Request an Account](#)
[Forgot User ID](#)
[Forgot Password](#)

- Links**
- [DEQ Well Construction Program](#)
 - [Download Wellogic Data](#)
 - [DEQ Scanned Well Records \(pre-2000\)](#)
 - [DEQ Environmental Mapper](#)
 - [DEQ GeoWebFace](#)
 - [Download Wellogic Data by County](#)
 - [DEQ Water Well Viewer](#)
- Documents**
- [Troubleshooting Guide](#)
 - [Wellogic FAQ](#)
 - [Water Wells Drilled by County & Year](#)
 - [Latitude & Longitude Websites](#)

Welcome

Welcome to Wellogic, the
If you have any question
(wellogic@michigan.gov)

Search Water Wells

Basic Information

Search Type:
Well ID:
Permit No:

Well Address

Street Address:
For best match, enter

Well Owner

Owner Name:
For best match, enter

Database

Created Between:
Created By User ID:
Created By Group:

Drinking Water and Mun

Scanned Water Well Record Retri

Home |

Search By

County: WASHTENAW

Township: Dexter

TownRange: 01S 04E

Section: 1

Town: Range:

Section:

About This Website:

Nearly 1 million water well reco
the access. Water well records c
public water supply wells irrigat
1965 through 1999 . Historic
which mandated submittal of w

This set of files may not be com
additional records that are not i

To view these well records you

How to Perform a Search:

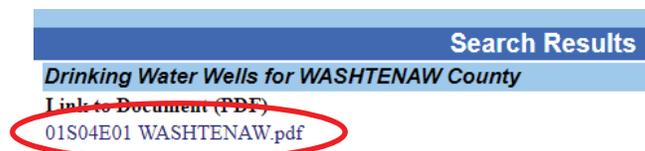
Fill in the entry fields at the left
Range Numbers.

Use the pick lists to select the C
names are linked to the corresp
township names.

You can also enter the town and
fields.

Type in the **Section** number (b
When you have completed ente

A PDF document of all well records from the search area will then appear under search results. You can then scroll through the PDF document looking for records for your address.



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Using Washtenaw County's Well and Septic Records

Well logs may also be found in Washtenaw County's online Well and Septic Records database. Go to <https://www.washtenaw.org/EnvHealth>, hover over "Time of Sale Program (TOS)" at the bottom of the left-side menu, and then click on "Well & Septic Records."

The screenshot shows the website <https://www.washtenaw.org/envhealth>. The left navigation menu is expanded, with "Time of Sale Program (TOS)" circled in red. A sub-menu is visible under "Time of Sale Program (TOS)", with "Well & Septic Records" also circled in red. The main content area displays information about "Body Art (Tattoos & Body Piercings)", "Day Cares", and "Drinking Water Testing". The "Drinking Water Testing" section includes a link to "Minimum Qualifications of Certified TOS Inspectors". The right sidebar contains contact information for the Western Service Center, including the address (705 N Zeeb Road, Ann Arbor, MI 48103), mailing address (P.O. Box 8645, Ann Arbor, MI 48107), phone (734-222-3800), and fax (734-222-3930). A "Directory" link is also present.

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Using Washtenaw County's Well and Septic Records

Searches should be done using Street Number ONLY. You can then scroll through the results to find records for your address (do not enter Street Name).

→ Street #

Street Name

Owner Last Name

Jurisdiction

Parcel ID

Contractor Name

Permit Number

For example, if looking for the well log for 12154 North Territorial Road you will type "12154" into the Street # field, click Search, and then scroll down to documents for the property on North Territorial Road.

You will want to look through WEL, SEW, and EH files for well records. The last document found in the search is the WEL case (WEL2014-00388). The well record can be found on page 3 in that document.

Results

Document Name
12154 BEMIS - FREEDOM TOWNSHIP - SCHMITT MICHAEL & MARY JEAN - SEW2004
12154 BEMIS - FREEDOM TOWNSHIP - SCHMITT MICHAEL & MARY JEAN - WEL2004
12154 NORTH TERRITORIAL RD - DEXTER TOWNSHIP - - <u>WEL2014-00388</u> - D -04-16

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Is my well water 'protected'?

Once you find the drilling record, you will want to look at the "Formation Description". This section shows what type of material is being drilled through and how thick each layer of material is. We look for clay confining layers that slow or prevent the downward movement of water. A 10 foot or greater layer of clay is what is consider to be 'protective', preventing surface contaminants from entering a deeper drinking water aquifer.

Formation Description	Thickness	Depth to Bottom
Brown Clay	15.00	15.00
Yellow Clay Sandy	6.00	21.00
Gray Clay	49.00	70.00
Gravel	27.00	97.00

A protective clay layer is no guarantee that a well will or will not become contaminated. Contamination depends on a variety of factors including where the source is located (surface or naturally occurring), chemical properties of the contaminant, overlying formations, horizontal extent of those formations, rate of groundwater flow, quality of well grouting, and condition of well casing and cap. On the next page is a chart from the State of Michigan outlining well integrity versus risk potential.

If you every have questions about your well or water quality, or would like assistance locating your well log, please contact your township sanitarian by calling 734-222-3800.

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Well Integrity and Management

	Low Risk Recommended	Medium Risk Potential Hazard	High Risk Potential Unsafe Situation
Permeability of top layer of soil	Clay (very tiny particles).	Silt/loam (midsize particles).	Sand/gravel (large particles).
Thickness of soil protective layer	10 feet or more of continuous clay.	10 feet or more of clay-sand or clay-silt mix	Less than 10 feet of confining material.
Total Soil Depth	Deep (Greater than 40 feet).	Moderate (25 to 40 feet).	Shallow (Less than 25 feet).
Bedrock	Solid, not permeable or fractured.	Solid limestone or sandstone, or fractured granite or shale.	Fractured limestone or sandstone.
Bedrock and Casing	Bedrock surface is greater than 40 feet below ground surface and/or casing penetrates at least 50 feet into the rock.	Bedrock is less than 40 feet below surface and casing penetrates to at least 50 feet below ground surface.	Bedrock is less than 40 feet below ground surface and casing penetrates less than 50 feet below ground surface.
Static Water Level	Over 40 feet.	10 to 40 feet.	Less than 10 feet.
Age of the Well	Constructed after 1994.	Constructed between 1976 and 1994.	Constructed prior to 1976.
Well Grouting	Drilled and grouted with neat cement or concrete.	Partially or poorly grouted.	Drilled and not grouted or driven point or water jetted.
Condition of the well casing and cap	No holes or cracks. Approved cap tightly secured. Screened vent.	Unapproved cap tightly secured. Screened vent.	Holes or cracks visible. Cap loose or missing. Water can be heard running into well.
Protection of well casing	No chemicals are applied near well casing. No downspouts drain on top of well casing. Ground landscaping slopes away from the well casing in all directions.	No chemicals are applied near well casing. Downspouts drain on top of well casing.	Chemicals are applied near well casing. Downspouts drain on top of well casing.
Depth of the well casing	More than 100 feet, or minimum of 60 feet with 10 feet of clay or 20 feet of clay mixture (confining material).	At least 25 feet, but non confining material.	Less than 25 feet, or no casing (dug wells).
Casing height above grade	12 inches or more.	From grade level to less than 12 inches.	Below grade, in a pit, or in a basement.
Surveillance of Wellhead	Wellhead is readily visible for inspection and is protected with barrier from vehicular damage (snowplows, lawn mowers, cars, etc.).	Wellhead is readily visible for inspection but is not protected with barrier from vehicular damage (snowplows, lawn mowers, cars, etc.).	Wellhead is not readily visible for inspection and is not protected with barrier from vehicular damage (snowplows, law mowers, cars, etc.).