(Wellogic)

https://secure1.state.mi.us/wellogic/Login.aspx

# **Wellogic User Guide**

for Water Well Contractors



Michigan Department of Environment, Great Lakes, and Energy Drinking Water & Environmental Health Division Environmental Health Section Source Water Unit

**Revised October 2023** 

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## Introduction

<u>Wellogic</u> (https://secure1.state.mi.us/wellogic/Login.aspx) is the Internet-based data entry program developed by the State of Michigan to provide an easy method for water well drilling contractors to submit water well records. Electronic well record submittal satisfies state and county well record submittal requirements, as required by Part 127, Act 368 of the Public Acts of 1978, as amended and rules (Well Construction Code).

Use of the Wellogic program is voluntary and free. A User ID and password are assigned to each user. After a well record is entered into Wellogic, it is automatically sent to the Department of Environment, Great Lakes, and Energy (EGLE) server and assigned an 11 digit ID number. Each record is automatically stamped with the date and time of submittal.

The advantages of using Wellogic are:

- · Access to hundreds of thousands of water well and abandoned well records
- Aids contractors in developing accurate bids
- Streamlines well record submittal
- Improves the quality of the data entered, reducing the amount of time spent on data review
- Allows contractors to renew their certificates of registration electronically
- Allows for customized queries for rapid assessment of environmental threats
- Links replacement wells with abandoned wells and pump logs with drilling logs
- Allows for verifying the location of a water well or abandoned well using an interactive map
- Allows for running specialized reports

EGLE will provide free onsite training for those local health departments (LHD) who request it. To request training, please email the Wellogic Help at <u>wellogic@michigan.gov</u>.

## Finding, Viewing, and Printing Records

## **Types of Well Records**

There are two different types of well records: the **Water Well and Pump Record** (WW) and the **Abandoned Well Plugging Record** (AW) in Wellogic. WW records are used to record the drilling of water wells, the deepening of an existing well, the drilling of a boring without casing, or the installation of a pump on an existing well. If the new well is replacing an existing well, the WW form also records information about the well that is being replaced (known as an abandoned well). In contrast, the AW form is only used to record the plugging of an abandoned well.

## Finding a Well Record

WW and AW records are publicly available without the need to log in to Wellogic. The public Wellogic Home Page is located at https://secure1.state.mi.us/wellogic/Login.aspx. A search form is displayed on the home page. Well records can be found based on the location (such as County, Township, Section, or street address), the well owner name, completion date or many other search parameters.

| Log In  | Welcome   |  | 0 |
|---|---|--|---|
| User ID:<br>Password:<br>Log In                         | Welcome to Wellogic, the State of Michigan's statewide gro<br>If you have any questions or experience problems using We<br>(wellogic@michigan.gov). | oundwater database!<br>ellogic, please email the Wellogic Help   |   |
| Request an Account<br>Forgot User ID<br>Forgot Password | Search Water Wells<br>Basic Information   | Well Location  | 6 |
| Linke   | Search Type: Water Well Records  Well ID:   | County:  Township: Select Township  Township: Select Township  Town/Rappa: Select v/ Section: Click Hare |   |
| DEO Well Construction                                   | Well Advect   | Contractor   |   |
| Program   | well Address  | Contractor   |   |
| Download Wellogic Data                                  | Street Address:<br>For best match, enter street name only   | Registration Number:   |   |
| Get Adobe Reader  | Well Owner  | Well Details   |   |
| Get Firefox<br>DEO Scanned Well Records                 | Owner Name:   | Well Type: Vell Use:   | - |
| (pre-2000)  | For best match, enter last name only  | Vell Denth (ft.):  | 4 |
| DEQ Environmental Mapper                                | Database  | Source ID/Well No: WSSN:   | 4 |
| View Water Well Records on a                            | Created Between: and  | Pump Capacity (GPM): and   | 3 |
| <u>Map (Geowebrace)</u>                                 | Created By User ID:   | Plugged Between: and   |   |
| Documents   | Created By Group:   | Search Rese  | 2 |
| Flowing Wells Handbook                                  |   |  |   |
| Wellogic 2.0 Start Up Guide                             |   |  |   |
| Wellogic FAO  |   |  |   |
| Nater Wells Drilled by County<br>& Year                 |   |  |   |
| atitude & Longitude Websites                            |   |  |   |
| User Manuals &<br>Training                              |   |  |   |
| LHD/SOM User Manual                                     |   |  |   |
| Contractor User Manual                                  |   |  |   |
|   |   |  |   |
| XML Documentation                                       |   |  |   |
| XML Documentation<br>XML Upload User Guide              |   |  |   |

To search for both WW and AW records at once, change the Search Type to "All Well Records". Once the search terms are entered, click the Search button to locate matching well records.

## **Search Results**

Wellogic will return a list of the records that match the search terms entered. Wellogic will not display the search results if more than 250 records are found that match the search terms entered. If more than 250 records are found, narrow your search by adding more specific parameters to the search. If no records are returned, try searching using fewer or simpler search parameters.

Search Tips

- ✓ Use the wildcard searches for street name and owner's last name.
- ✓ Beware of misspellings and inaccuracies.
- ✓ If you can't locate a well record searching one way, search another way. For example, instead of searching on the well location, try searching on the contractor's registration number and construction date range.
- ✓ Many records were originally entered without addresses.
- ✓ Permit number and tax number are not good fields to search on.
- ✓ Many Type I wells were originally entered as test wells.

| The search res | sulte con ho  | cortod by | clicking on |             | n hooding |
|----------------|---------------|-----------|-------------|-------------|-----------|
| The searchies  | Suits Carl De | solled by | CIICKING OI | i any colum | i neauny. |

| ele | ect All         |             |             |         |                        |         |                       |            |         |               |                                 | View/Print A        | II Selected          |
|-----|-----------------|-------------|-------------|---------|------------------------|---------|-----------------------|------------|---------|---------------|---------------------------------|---------------------|----------------------|
|     |                 |             |             |         | Searc                  | h Resul | ts - 10 Reco          | rds Return | ed      |               |                                 |                     |                      |
|     | Action          | <u>Type</u> | Well ID     | County  | Well<br>Address        | WSSN    | SourceID/<br>Well No. | Township   | Section | Well<br>Depth | <u>Static</u><br>Water<br>Level | Date<br>Constructed | Entered By           |
|     | PDF View Modify | ww          | 1900005632  | Clinton | 1220 Turner<br>St      |         |                       | Dewitt     | 8       | 200.00        | 48.00                           | 10/23/2008          | Contractor           |
|     | PDF View Modify | ww          | 19000005672 | Clinton | 610 MAIN<br>DEWITT     |         |                       | Dewitt     | 8       | 200.00        | 20.00                           | 5/12/2008           | State of<br>Michigan |
|     | PDF View Modify | ww          | 19000005699 | Clinton | 605<br>Birchwood       |         |                       | Dewitt     | 8       | 240.00        | 40.00                           | 3/11/2009           | Contractor           |
|     | PDF View Modify | ww          | 19000006250 | Clinton | 1107<br>TURNER ST      |         |                       | Dewitt     | 8       | 200.00        | 42.00                           | 6/21/2012           | State of<br>Michigan |
|     | PDF View Modify | ww          | 19000006260 | Clinton | 602 CHERRY<br>ST       |         |                       | Dewitt     | 8       | 200.00        | 25.00                           | 8/28/2012           | State of<br>Michigan |
|     | PDF View Modify | ww          | 19000006335 | Clinton | 1127 turner<br>st      |         |                       | Dewitt     | 8       | 200.00        | 45.00                           | 6/9/2014            | Contractor           |
|     | PDF View Modify | ww          | 1900006350  | Clinton | 1115 Turner<br>St      |         |                       | Dewitt     | 8       | 195.00        | 45.00                           | 7/23/2014           | Contractor           |
|     | PDF View Modify | ww          | 19000006493 | Clinton | 1111<br>TURNER<br>ROAD |         |                       | Dewitt     | 8       | 180.00        | 25.00                           | 9/19/2014           | State of<br>Michigan |
|     | PDF View Modify | ww          | 1900006645  | Clinton | 1131 turner<br>st      |         |                       | Dewitt     | 8       | 200.00        | 35.00                           | 3/15/2016           | Contractor           |
|     | PDF View Modify | ww          | 1900006701  | Clinton | 615 Cherry<br>St       |         |                       | Dewitt     | 8       | 220.00        | 18.00                           | 10/25/2016          | Contractor           |
| ele | ect All         |             |             |         |                        |         |                       |            |         |               |                                 | View/Print A        | II Selected          |

## **Viewing and Printing Well Records**

To view or print a single well record, click the Well ID link displayed in the third column of the search result list. To view or print multiple well records, check the boxes next to the desired well records in the first column and then click the View/Print All Selected button to retrieve the well records in PDF format.



## Water Well And Pump Record





Tax No: 72-003-011-004-2060 Permit No: JPHS-9CRRXD County: Roscommon Township: Denton Source ID/Well No: Town/Range: Well Status: WSSN: Section: 22N 03W 11 Active Well ID: 72000006066 Distance and Direction from Road Intersection: Located .1 mile west of Co Rd 100, 43 feet north of Bell Avenue. Elevation: Well Owner: Dale & Anita Ladouceur Latitude: 44.314016 Well Address: Owner Address: Longitude: -84.633122 120 Bell Avenue Prudenville, MI 48651 1675 W. Dill Road Method of Collection: Interpolation-Map DeWitt, MI 48820 Drilling Method: Rotary Pump Installed: Yes Pump Installation Only: No Well Depth: 256.00 ft. Well Use: Household Pump Installation Date: 6/10/2014 HP: 0.50 Well Type: Replacement Date Completed: 6/10/2014 Manufacturer: Franklin Electric Pump Type: Submersible Pump Capacity: 12 GPM Pump Voltage: 230 Casing Type: PVC plastic Height: 1.00 ft. above grade Model Number: 12LY05P42W230 Casing Joint: Solvent welded/glued Drop Pipe Length: 40.00 ft. Casing Fitting: None Drop Pipe Diameter: 1.25 in. Drilling Record ID: Draw Down Seal Used: No Diameter: 5.00 in. to 196.00 ft. depth SDR: 21.00 Pressure Tank Installed: Yes 5.00 in. to 246.00 ft. depth SDR: 17.00 Pressure Tank Type: Diaphragm/bladder Manufacturer: Flex-Lite-Flexcon Borehole: 8.75 in. to 256.00 ft. depth Model Number: FL7 Tank Capacity: 22.0 Gallons Pressure Relief Valve Installed: Yes Static Water Level: 0.00 ft. Above Grade (Flowing) Depth to Formation Description Thickness Yield Test Method: Air Well Yield Test: Bottom 1.00 hrs. at 40 GPM 27.00 Sand 27.00 Gray Clay 15.00 42.00 Sand 8.00 50.00 Unrestricted Flow Rate: 2 GPM Gray Clay 2.00 52.00 Screen Installed: Yes Filter Packed: Yes Sand 9.00 61.00 Screen Diameter: 5.00 in. Blank: 79.00 140.00 Gray Clay Screen Material Type: PVC-saw cut Sand 3.00 143.00 Slot Length Set Between Gray Clay 72.00 215.00 12.00 10.00 ft 246.00 ft. and 256.00 ft. Sand 3.00 218.00 Gray Clay 1.00 219.00 3.00 222.00 Sand 244 00 Fittings: None Gray Clay 22 00 Sand & Gravel 12.00 256.00 Well Grouted: Yes Grouting Method: Grout pipe outside casing Grouting Material Bags Additives Geology Remarks: Depth Bentonite slurry 0.00 ft. to 242.00 ft. 12.00 None Wellhead Completion: Pitless adapter, 12 inches above grade Nearest Source of Possible Contamination: Drilling Machine Operator Name: Tom Jordan Employment: Employee Distance Direction Type Sewer line 10 ft. North Contractor Type: Water Well Drilling Contractor Reg No: 72-2106 Business Name: Jordan Well Drilling Abandoned Well Plugged: Yes Business Address: 247a Nellsville Rd, Houghton Lake, MI, 48629 Water Well Contractor's Certification Longitude: -84.633055 This well/pump was constructed under my supervision and I hereby certify that the work complies with Part 127 Act 368 PA 1978 and the well code. Latitude: 44.314183 Casing Diameter: 2 in. Casing Removed: No Plugging Material: Bentonite slurry No. of Bags: 2.00 Well Depth: 250 ft. Signature of Registered Contractor Date General Remarks: Other Remarks: EQP-2017 (4/2010) Page 1 of 1 Contractor 6/23/2014 9:19 AM

Example Water Well and Pump Record Generated by Wellogic

## **Logging In**

Users who want to add or modify records, run reports, or update their profile must log into Wellogic. Logging in is performed from the public Wellogic Home Page. A Log In box is located in the top-left corner of the screen. Enter your assigned User ID and password and click the Log In button to log in.

If an incorrect password is provided more than 5 times, the account will be disabled, and it will be necessary to contact the Wellogic Help to have the account unlocked.

## **Forgotten User IDs**

If you forgot your User ID, click the Forgot User ID link near the bottom of the Log In box. If you have a valid email address registered with Wellogic, you can retrieve your User ID by providing your email address. Wellogic will send an email containing your User ID. If you do not have an email address on file, you must email the <u>wellogic@michigan.gov</u> for assistance in retrieving your User ID.

## **Forgotten Passwords**

If you forgot your password, click the Forgot Password link located at the bottom of the Log In box. After supplying your User ID and answering two pre-established challenge questions, a new temporary password will be assigned to your account. If the account has an email address associated with it, the new temporary password will be sent to you via email. Otherwise, the new temporary password will be displayed on the screen. Write it down and use it to log in again at which point you will be prompted to establish a new password of your choice.

In lieu of answering the challenge questions, users can simply email the <u>wellogic@michigan.gov</u> to have their password reset.

## **Expired and Temporary Passwords**

You may be prompted to choose a new password upon logging in. This can occur for two reasons:

- 1. Your password has expired. Passwords typically are valid for 1 year.
- 2. You were issued a temporary password. This will occur if you forgot your password and requested to have it reset.

## **Challenge Questions**

Upon first logging into Wellogic, users will be asked to select five challenge questions and supply answers to those questions. These are used to verify the user's identity if a password is forgotten. Administrators can reset the challenge questions at the request of the account holder.

## **Login Home Page**

After successfully logging in, the Login Home Page is displayed. This screen has two main areas; an announcements section and a tab panel. The announcements section will display a message set by the Wellogic administrator. For well contractors, the tab panel has the following tabs:

- 1. Search for Well Records
- 2. Submit a Well Record
- 3. Well Records Available to Modify
- 4. Registration Renewal

#### Search for Well Records Tab

| <b>Basic Information</b>                                     |                           |          | Well Location                       |                             |                               | (?           |
|--|---------------------------|----------|-------------------------------------|-----------------------------|-------------------------------|--------------|
| Search Type:<br>Well ID:<br>Permit No:                       | Water Well Records        | <b>`</b> | County:<br>Township:<br>Town/Range: | Select Township<br>Select 🗸 | )<br>Section: <u>Click He</u> | ✓<br>✓<br>re |
| Well Address   | 10.                       |          | Contractor                          |                             |                               |              |
| Street Address:<br>For best mate                             | h, enter street name only | ]        | Registration Nur<br>Well Details    | mber:                       |                               |              |
| Well Owner   |                           |          | Well Type:                          |                             | Vell Use:                     | ~            |
| Owner Name:  |                           | ]        | Constructed Bet                     | ween:                       | and                           |              |
| Por Dest mato  | n, enter last name only   |          | Well Depth (ft.):                   | :                           | and                           |              |
| Created Between:<br>Created By User ID:<br>Created By Group: | and                       | ]        | Pump Capacity (<br>Plugged Betwee   | (GPM):                      | and and Sea                   | arch Reset   |

The Search for Well Records Tab works the same as the search on the public home page described above. Searching for well records is the same.

The image below shows an example search result list.

| Sele | ect All  |      |             |         |                        |          |                       |            |         |                             |                                 | view/Prin           | t All Selected             |
|------|----------|------|-------------|---------|------------------------|----------|-----------------------|------------|---------|-----------------------------|---------------------------------|---------------------|----------------------------|
|      | Action   | Туре | Well ID     | County  | Well<br>Address        | Search R | SourceID/<br>Well No. | ecords Ret | Section | <u>Well</u><br><u>Depth</u> | <u>Static</u><br>Water<br>Level | Date<br>Constructed | Entered By                 |
|      | PDF View | ww   | 1900006335  | Clinton | 1127 turner<br>st      |          |                       | Dewitt     | 8       | 200.00                      | 45.00                           | 6/9/2014            | Contractor                 |
|      | PDF View | ww   | 1900006350  | Clinton | 1115 Turner<br>St      |          |                       | Dewitt     | 8       | 195.00                      | 45.00                           | 7/23/2014           | Contractor                 |
|      | PDF View | ww   | 19000006493 | Clinton | 1111<br>TURNER<br>ROAD |          |                       | Dewitt     | 8       | 180.00                      | 25.00                           | 9/19/2014           | State of<br>Michigan       |
|      | PDF View | ww   | 1900006543  | Clinton | 12449 S.<br>U.S. 27    | 2000419  | 002                   | Dewitt     | 10      | 260.00                      | 65.00                           | 4/26/2015           | Local Health<br>Department |
|      | PDF View | ww   | 19000006618 | Clinton | 12723 Holley<br>Lane   |          |                       | Dewitt     | 9       | 200.00                      | 30.00                           | 6/19/2015           | State of<br>Michigan       |
|      | PDF View | ww   | 19000006645 | Clinton | 1131 turner<br>st      |          |                       | Dewitt     | 8       | 200.00                      | 35.00                           | 3/15/2016           | Contractor                 |
|      | PDF View | ww   | 1900006686  | Clinton | 1592 dill rd           |          |                       | Dewitt     | 9       | 200.00                      | 30.00                           | 9/12/2016           | Contractor                 |
|      | PDF View | ww   | 19000006701 | Clinton | 615 Cherry<br>St       |          |                       | Dewitt     | 8       | 220.00                      | 18.00                           | 10/25/2016          | Contractor                 |
|      | PDF View | ww   | 19000006719 | Clinton | 12645<br>Kruger Ln     |          |                       | Dewitt     | 10      | 260.00                      | 50.00                           | 12/26/2016          | Contractor                 |
| Sele | ect All  | 1    | 1           |         | 1                      | 1 1      |                       | 1          |         | I                           |                                 | View/Prin           | t All Selected             |

The Action column will always offer two choices for each record: **PDF** and **View**. The **PDF** option will produce a print-ready report of the selected WW or AW record, similar to the public home page. The **View** option will display the WW or AW data entry screen in a view-only mode. The view-only mode displays additional data entry fields that may not be visible on the PDF report.

Similar to the option available on the public search result list, multiple well records can be selected for viewing and/or printing.

#### Submit a Well Record Tab

| Search for Well Records | Submit a Well Record | Well Records Available to Modify  | Registration Renewal |  |
|-------------------------|----------------------|---|----------------------|--|
|                         | Submit a<br>O<br>O   | Well Record:<br>Water Well and Pump Record<br>Pump Installation Only Record<br>Abandoned Well Plugging Record | d                    |  |
|                         |                      |   | contribut            |  |

The Submit a Well Record Tab panel is used to submit a new well record to Wellogic. There are either three or four options available depending on the user's permissions:

**Water Well and Pump Record** – Use this option to create and submit a Water Well and Pump Record.

**Pump Installation Only Record** – Use this option to record the installation of a pump in an existing well. For more information on this option see the *Adding a Pump Installation Only Record* section below.

**Abandoned Well Plugging Record** – Use this option to create and submit an Abandoned Well Plugging Record.

**Upload an XML File** – Use this option to upload a file containing one or more WW or AW records. This option only appears if the current user has permissions to upload XML files.

#### Well Records Available to Modify Tab

| Search for Well Records | Submit a Well Record                         | Well Records Available to Modify   | Registration Renewal  |
|-------------------------|--|--|---|
| То                      | You may modify t<br>add a pump or pressure t | he following well records by selecting<br>ank to a well record you entered, us | g the Wellogic ID link.<br>se the Submit a Well Record tab. |
|                         |  | Search Results   |   |
|                         | There a                                      | are no well records available for you  | to modify.  |

This screen will display a list of WW and/or AW records that the contractor can modify. Records can only be modified within 10 days of submitting the well record provided the record was submitted within the 60 day submittal requirement. To modify a well record, click the Well ID link for the desired record. Well records no longer available to modify must be modified by the Wellogic Administrator (or local health department).

#### **Registration Renewal Tab**



The Registration Renewal tab is available each February for contractor's to renew their certificate of registration electronically. The contractor must enter the number of wells drilled and pumps installed the previous calendar year, verify the contractor and business information, and verify the equipment.

There is also a link to pay the online using a credit card.

## Adding a New Record

The steps for adding a new WW or AW record to Wellogic are listed below:

- 1. Log in to Wellogic from the public Wellogic Home Page.
- 2. Click the Submit a Well Record Tab.
- 3. Select the option button to add a Water Well and Pump Record, Pump Installation Only Record, or an Abandoned Well Plugging Record. If you choose to enter a Pump Installation Only Record, and you entered the original drilling record under the same user ID, select 'I entered the Drilling Record', and enter the Well ID or leave the field blank to search for the record.
- 4. Click the Continue button.
- 5. Complete the WW or AW form.
- 6. Click the Submit button to add the well record to Wellogic.

The image below displays the order in which the data is entered into Wellogic from the paper water well and pump record (EQP 2017).

| TAX NUMBER       WATER WELL AND PUMP RECORD       PERMIT NUMBER         Completion is muguide to complete an integration is open to an automay of the an integration.       Permit Number P         CMITUGE       6       LCINSTUDE       COUNTY         DIAL DE ADRECTION       Immun P       COUNTY       TOWNSHP         DIAL DE ADRECTION       WELL STREET ADDRESS, CITV/2P       WELL OWNER       ADDRESS         DIAL DE ADRECTION       Immun P       Count P       Count P       ADDRESS         CITV/2P       Owner Address Same As Well Address?       Yes       No         DRELING       Hotev       Count P       Count P       No       Reve         DRELING       Hotev       Count P       Count P       No       No       Reve         DRELING       Hotev       Count P       Count P       No       Reve       No       Reve         DRELING       Hotev       Count P       Count P       No       Reve       No       Reve       No       Reve         DRELING       Hotev       Count P       Count P       Reve       Reve<   | TXT NUMBER     WATER WELL AND PUMP FECOADS     PERMIT NUMBER       Demote is equided under and the sequence of the se |   | RESOURCE MANAGE  | ENVIRONMENTAL (<br>MENT DIVISION   | QUALITY  |   |             |  |
|---|---|---|--|--|--|---|-------------|--|
| LNITLOE       CANSTLOE       COUNTY       TOWNSHP         DISTANCE & DIRECTION Prevent ROAD<br>NTERSECTION       WELL STREET ADDRESS, CITV/2P       WSSN       SOURCE RV       1       TOWN NO.       RAM         DIRILLING       Retary       Cai       0       Heliow Rod       Other       ADDRESS       CITV/2P       WELL OWNER         DRILLING       Botary w/Cacing Hammer       Cable Tool w/Cacing Hammer       Cable Tool w/Cacing Hammer       Other       Pump Type I Notification City       Manufacturer         WELL       Botary w/Cacing Hammer       Cable Tool w/Cacing Hammer       Cable Tool w/Cacing Hammer       Manufacturer       Manufacturer | UNITABLE     EXCRATUSE     DOUNTY     TONNEHP       DESUNCE & DEPICTION Provembols     WELL STREET ADDRESS, CITY2P     WSSN     SUPPLY     TONNEHP       DESUNCE & DEPICTION Provembols     WELL STREET ADDRESS, CITY2P     WSSN     SUPPLY     TONNEHP       DIRLING     Relative     Address     Yes     No       Parto Caspacity     Image of the strengtherm     Cable Tool witching     Parto Caspacity     Address       VELL     Offer     Tool Tool Tool Pipe     Menutoching     Address     Address       DET     Offer     Tool Tool Tool Tool Pipe     Menutoching     Address     Address       DET     Offer     Tool Tool Tool Tool Pipe     Menutoching     Address     Address     Address       Det     Offer     Tool Tool Tool Tool Tool Tool Pipe     Menutoching     Menutoching     Menutoching       Det     Offer     Tool Tool Tool Tool Tool Pipe     Menutoching     Menutoching     Menutoching       Det     Otheat     State Caspace Tool T  | TAX NUMBER  | WATER WELL AND<br>Completion is required under author<br>Failure to complete   | PUMP RECO  | 368 PA 1978.   | PERMIT NUM  | BER         |  |
| DISTUNCE & DIRECTION Immon FOAD<br>NIERSSCHON     WELL STREET ADDRESS, CITYZIP     WSSN     SOURCE ID'<br>WELL NO.     1     TOWN NO.     RAM       OPRILING     Pothery     Cal     I     Hollow Rod     WELL CWNER     ADDRESS     CITYZIP     WELL CWNER       OPRILING     Pothery     Cal     I     Hollow Rod     CityZiP     Owner Address Same As Well Address?     Yes     No       OPRILING     Pothery     Cal     I     Hollow Rod     Pump Installander Drifty       METHOD     Jetted     Ada     I     Other     Pump Installander     Drift       METHOD     Jetted     Type II Public     Not Installand     Drift     Pump Installander     Drift       METHOD     Other     Installand     Type II Public     Pump Installander     Drift     Drift       METHOD     Other     Installand     Type II Public     Pump Installander     Drift     Drift       DET COMPLETD     WELL Street Black     Street Black     Street Black     Street Black     Street Black     The depth     Street Black     The depth     Street Black     Model       Diameter     In. to     The depth     Street Black  | DEPANCE A DIFECTION ProvemPOAL     Well STREET ADDRESS, CIT/207     WSSN     DOLECE D/     TON     TOWN NO.     PARCE       DRILING     Retary     CA     Important     Colorer     Parce     Parce <td< td=""><td>LATITUDE 6 LONGITU</td><td>DE COU</td><td>INTY</td><td></td><td>TOWNSHIP</td><td></td><td></td></td<>  | LATITUDE 6 LONGITU  | DE COU   | INTY   |  | TOWNSHIP  |             |  |
| NULL NO.       Retary       Cai       1       Holicow Rod       Owner Address Same As Well Address?       Yes       No         DRILLINC       Retary       Cai       1       Other       Owner Address Same As Well Address?       Yes       No         METHOD       Retary wCasing Hammer       Cable Tool w/Casing Hammer       Owner Address Same As Well Address?       Yes       No         WELL       WELL USE       Household       Type I Public       Not Installed       Pump Type       Summersible       Jatk       Other       Pump Suppus       Installed       Type II Public       Nodel Namore       HP       Not Installed       Durp Copacity       G.J. 6       framework Seal Installed       During Copacity       G.J. 6       Durp Copacity       G.J. 6       During Copacity       During Copacity       Durin                                    | VELL OWNER         ACXESS         DRILLING       Retary         Catal       Other         METHOD       Jetted         DRUL USE       Towns-Supply         METHOD       Jetted         METHOD       State         METHOD       Jetted         METHOD       Jetted         METHOD       Jetted         METHOD       Jetted         METHOD       State         Demeter       In. to  | DISTANCE & DIRECTION PHONE ROAD   | WELL STREET ADDRESS, CITY/ZIP  | WSSN   | SOURCE ID/   | 1 1   | ON TOWN NO. | RANGE NO   |
| WELLHEAD COMPLETION       PRIVESS Adapter       12 in. Above Grade       USE 2ND SHEET IF NECESSARY         NEAREST SOURCE OF POSSIE       Offset       Well House       OFfset       Well House         NEAREST SOURCE OF POSSIE       MINATION       Distance       ft.       Direction       PLMP INSTALLER (f: different from childing machine operator.)         Type       Distance       ft.       Direction       Name       PLMP INSTALLER (f: different from childing machine operator.)         ABANDONED WELL PLUGGED       Yes       No       WATER WELL CONTRACTOR'S CERTIFICATION         Labitude       Longitude       ft.       WATER WELL CONTRACTOR'S CERTIFICATION         Casing Dismater       in. Depth       ft.       Destructer ft.         PLUGGING MATERIAL       Neat Cemont       Dentorite Blurr       Stered Business Name       Registration No.  |   | DISTANCE & DIRECTION Prover ROAD<br>NITERSECTION         DRILLING       Rotary       Ca         METHOD       Jetted       Au         Rotary       WCasing Hammer         WELL       WELL USE       Image: Casing Hammer         DATE COMPLETED       WELL TYPE       New         DATE COMPLETED       WELL TYPE       New         Joint       Glued       Born         Diameter       in. to       3         Height Above Grade       ft. After       height Above Grade         WELL YIELD TEST       Purping Level       ft. After       height Above Grade         WELL YIELD TEST       Purping Level       ft. After       height Above Grade         WELL YIELD TEST       Purping Level       ft. After       height Above Grade         Stot       Length       ft.       Ft         Stot       Length       ft.       Ft         Stot       Length       ft.       Ft         Stot       Length       ft.       Ft         Statlactrion       Telescope | WELL STREET ADDRESS, CITV/ZIP  WELL STREET ADDRESS, CITV/ZIP  Household Other Other Household Type I Public Imigation Type II Public Imigation Type II Public Imigation Type II Public Industrial Type III Public Industrial Type III Public Industrial Type III Public Industrial Type III Public Imigation Steel-Galvanized Inc Welded Threaded f. depth SDR f. de | WSSN WELL OWNER ADDRESS CITY/ZIP Owner Address PUMP PUMP Pump Capacity Length of Drop PRESSURE TA Type Manufacturer _ Total Tank Cap Fi USE 2ND USE 2ND DRBL LING MAG PUMP INSTAL VATER VIELL This arc/i/compatibility | SOURCE ID/<br>WELL NO.<br>S Same As Well<br>Not Installed<br>Submersible<br>G G, G<br>Pipef<br>NKNot<br>Diaphrogm/Bio<br>Pipef<br>NKNot<br>Diaphrogm/Bio<br>Pipef<br>Submersible<br>SHEET IF NEC<br>CHINE OPERAT<br>LER (): different<br>CONTRACTOR<br>war conservation to<br>s units Part 127 /<br>sincess Name | Address? C<br>Pum<br>Address? C<br>Pum<br>D Jet<br>5 htt<br>av<br>cdder  Ge<br>gal.  Press<br>for<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY<br>CESSARY |             | PANCE NC PAN |

DRILLING CONTRACTOR COPY

## Important Information Regarding Data Entry

## General Information

- Fractions must be converted to decimals.
- All picklists in Wellogic allow the user to enter the first letter of their choice. This allows the user to more quickly identify and select the appropriate item.
- Using the tab key along with your mouse is the fastest method of moving through the data entry screens.
- For multiple select picklists, hold down CTRL to make multiple selections.
- Most picklists have an "Unknown" option if the information requested in not available.
- Most picklists have an "Other" option if the item is not on the picklist. If "Other" is selected, a notepad will be displayed next to the field. Click on the notepad and enter the remarks.
- Before choosing "Other" off a picklist, check the list carefully first. For example a pump manufacturer of "Myers" on the well record is listed as "F.E. Myers" on the picklist.

#### **Required Fields**

While not all fields in Wellogic's data entry are required, records cannot be saved unless all required fields are filled in. If the user does not complete all of the required fields, the following may occur:

- The field will turn red if the user clicks in the field and clicks out of it without entering information.
- The tab with the required field will have a red dog ear on it when the user moves to a different tab.
- An error will appear when the record is submitted.

## Validations

Validations are also performed as data is being entered and submitted. For example, if a user enters "abc" in the well depth field, a pop-up will appear next to the field stating that the entry needs to be a number. Also, for example, when the record is submitted, an error will appear if the geology isn't equal to or greater than the well depth. All validation errors must be resolved before the record can be saved.

**Picklists Don't Show the Needed Choice:** If a picklist does not have a choice that you want, select "Other", if available. When this is done, a notepad icon will appear to the right of the picklist. Click the notepad icon to bring up a popup screen that will allow you to add your own remark. Click the OK or Cancel buttons when done.

**Select Multiple Items from a Picklist:** To select multiple items from a picklist (e.g. wellhead completion, screen fittings, casing fittings), hold the Ctrl button down while you select items with your mouse from the list. Click the OK or Cancel buttons when done.

**Picklist Requires an Entry, but No Information is Available:** If the picklist requires an entry but no information is available, choose "Unknown" from the picklist.

#### Date Fields

Date fields can be entered in various formats. For example, May 8, 2010 can be entered as 5/8/2022 or 05/08/2022 and you will need to type in the slashes. The year must always be 4 digits. You can also choose the date from a calendar picker, which will show up automatically.

#### **Tabbing through Fields**

Users can tab through the fields in Wellogic, as opposed to using the mouse to click on every field. If you start typing in a picklist field, the items available will start to show up. Be aware that tabbing may also take you to the michigan.gov banner above the data entry area.

## Adding a Water Well and Pump (WW) Record

The WW form consists of a series of seven tabs, each recording different information about the well drilling, pump installation, or well plugging activity.

New Record

Submit Record Cancel

#### WATER WELL AND PUMP RECORD

| asic Information   | Well Location   |
|--|---|
| ax No:   | County:<br>Township: Select Township<br>Town/Range: Select  Section:              |
| Vell Address   |   |
| istance and Direction from Road Intersection:                                | Address:  |
| Owner Address Same as Well Address       wner Name:       ddress:       itv: | Well Details       Well Use:       Well Depth:       ft.       Well Type:       V |
| tate: Zip:   | Date Well Completed:  |

The tabs displayed are as follows:

- 1. Well Details The well location, well owner, well use, and other fields.
- 2. Geology The different layers of material present from the surface to the bottom of the well.
- 3. Casing/Grouting The well casing, borehole, and grouting materials used.
- 4. Screen/Water Level The static water level, screen (if installed) and well yield test.
- 5. Completion/Pump The wellhead completion, nearest sources of contamination, and pump and pressure tank, if installed.
- 6. Latitude/Longitude The geographic coordinates (location) of the well.
- 7. Contractor/Abandonment The contractor, pump installer, and drilling machine operator, information about the plugged well if an existing well was plugged in conjunction with the reported activity, and any general remarks about the well.

Each tab is displayed and discussed in the sections that follow. The description of each tab highlights important aspects or features of the screen.

#### **Well Details Tab**

| Fax No:   | County:        Township:     Select Township       Town/Range:     Select   Section:            |
|---|---|
| Well Address  |   |
| Distance and Direction from Road Intersection:                                  | Address:  |
| Well Owner  | Well Details  |
| Owner Address Same as Well Address       Dwner Name:       Address:       Dity: | Well Use: V Well Status: V Well Depth: ft. Well Type: V Drilling Method: V Date Well Completed: |
| State: V Zip:   | Date weil completed.  |

**County, Township, Town/Range and Section**: Wellogic automatically filters the next picklist based on the selected choice in the previous one. For example, if Alcona County is selected, the Township picklist will only show townships that are located within Alcona County.

**Addresses:** If the contractor entered the well street address in the "Distance and Direction" field, leave it blank. If there is no address information, look in the Owner's Address information and see if the driller checked "Yes" that the owner address is the same as the well address. If so, enter this information into the Well Street Address. If not, leave blank. If you select "Yes", the information from the Well Address will be automatically transferred into the Owner Address fields.

**Well Use:** If agriculture, crops, cattle, or any other farm use is listed, choose "irrigation". If the well is a Type I or II public well (as selected from the Well Use picklist), two additional fields will appear: WSSN (Water Supply Serial Number) and Source ID/Well Number. Enter this information if it is known.

Well Status: Always choose "active" unless it is known that the well is plugged or inactive.

**Well Type:** If the record is for a Well Deepening, select "Well Deepening" from the Well Type picklist. When this is done, a Link to Drilling Record link will appear. If you know the Well ID number of the original drilling record for the well, click this link. You may then enter the Well ID, if known, or a search can be performed to locate the Well ID of the original drilling record.

#### **Drilling Method**

If more than one drilling method is checked, select "Other" and enter both methods into the remarks.

#### Geology Tab

| Primary Color | Primary<br>Material | Description/<br>Secondary | Description/<br>Formation | Thickness<br>of Stratum | Depth to<br>Bottom of<br>Stratum | Actions          |
|---------------|---------------------|---------------------------|---------------------------|-------------------------|----------------------------------|------------------|
|               | Sand                |                           |                           | 10.00                   | 10.00                            | Insert Edit Dele |
| Brown         | Clay & Sand         |                           |                           | 98.00                   | 108.00                           | Insert Edit Dele |
| Gray          | Clay Sand Gravel    |                           |                           | 22.00                   | 130.00                           | Insert Edit Dele |
| Gray          | Clay                |                           |                           | 17.00                   | 147.00                           | Insert Edit Dele |
|               | Sand & Gravel       |                           | Water Bearing             | 18.00                   | 165.00                           | Insert Edit Dele |
|               |                     |                           |                           |                         |                                  | Add              |

**Required Fields:** Only the primary material and depth to bottom of stratum are required.

**Enter Geology Information in Order of Increasing Depth**: Add a record for each stratum of material that was encountered. Start by entering the shallowest stratum first followed by the next deepest onward.

Automatic Calculation of Stratum Thickness: As rows are added, Wellogic will automatically calculate the thickness of stratum for the current row by subtracting the depth to bottom from the previous row.

The depth of the bottom-most stratum must be greater than or equal to the depth of the well as specified on the Well Details tab, if supplied.

Use "Edit" to modify the layer of geology. Use "Insert" to insert a layer of geology above the one you click on. Use "Delete" to delete a layer of geology.

#### **Formation Descriptions**

Use the "Guide for Entering Formation Descriptions" and the "Guide for Entering Geological Descriptors".

Use the Geology Comments if you cannot adequately use the Wellogic picklist to describe a row of lithology. If this occurs, select "See Comments" in the Primary Material field.

## Guide for Entering Formation Descriptions

| EXAMPLE              | PRIM. COLOR | PRIM. MATERIAL     | DESC./SECOND. | DESC./FORM. |
|----------------------|-------------|--------------------|---------------|-------------|
| Gray clay            | Gray        | Clay               |               |             |
| Red clay & blue sand | Red         | Clay and sand      |               | Blue        |
| Red & black clay     | Red         | Clay               |               | Black       |
| Sand & limestone     |             | Sand and limestone |               |             |
| Sand & clay          |             | Sand and clay      |               |             |
| Sand with clay       |             | Sand               | w/clay        |             |
| Sandy clay           |             | Clay               | Sandy         |             |
| Soft gray clay       | Gray        | Clay               | Soft          |             |
| Water sand           |             | Sand               | Water bearing |             |
| Silty sand           |             | Sand               | Silty         |             |
| Hard blue clay       | Blue        | Clay               | Hard          |             |
| Black muck           | Black       | Muck               |               |             |
| Brown sand & gravel  | Brown       | Sand and gravel    | w/ clay       | Coarse      |
| w/ coarse clay       |             |                    |               |             |
| Sand & clay with     |             | Sand and clay      | w/ stones     |             |
| stones               |             |                    |               |             |
| Brown coarse sand &  | Brown       | Sand and clay      | Coarse        | Medium      |
| medium clay          |             |                    |               |             |
| Red sand blue gravel | Red         | Sand gravel clay   |               | Blue        |
| clay                 |             |                    |               |             |
| Marshall sandstone   |             | Sandstone          |               | Marshall    |
| Red Jacobsville      | Red         | Sandstone and      |               | Jacobsville |
| sandstone &          |             | limestone          |               |             |
| limestone            |             |                    |               |             |

## Guide for Entering Geological Descriptors

| ENTRY ON WELL RECORD | WELLOGIC DATA ENTRY                           |
|----------------------|---|
| Active sand          | sand, heaving/quick                           |
| Chert                | "See Comments" (copy entry as written on log) |
| Clean                | ignore  |
| Creviced             | fractured                                     |
| Dirt                 | topsoil (if within the first 5-10')           |
| Dirty                | w/silt or silty                               |
| Drift                | sand gravel clay, w/silt                      |
| Gooey                | gummy   |
| Gritty               | sandy   |
| Heavy                | dense (when referring to clay)                |
| Mucky                | wet/moist                                     |
| Muddy                | wet/moist                                     |
| Pea Gravel           | gravel (D2), medium (D3)                      |
| Putty                | gummy   |
| Quicksand            | sand, heaving/quick                           |
| Rock or Bedrock      | unidentified consolidated formation           |
| Rocks                | stones  |
| Silica               | "See Comments" (copy entry as written on log) |
| Sloppy               | wet/moist                                     |
| Swampy               | muck  |
| Till                 | sand gravel clay, w/silt                      |
| Water sand           | sand, water bearing                           |
| W/b                  | water bearing                                 |

## **Casing/Grouting Tab**

| /ell Details  | Geology | Casing / Grouting | Screen / Water Level | Completion / Pump | Latitude / Longitude        | Contractor / Abandonment |
|---------------|---------|-------------------|----------------------|-------------------|-----------------------------|--------------------------|
| Casing        |         |                   |                      |                   |                             |                          |
| Casing Type:  |         |                   | Ŧ                    | Casing            | Joint:                      | τ                        |
| Diameter:     |         | in. Depth:        | ft. SDR:             | Casing            | Height:                     | ft. above grade          |
| Diameter:     |         | in. Depth:        | ft. SDR:             | Casing            | Fittings: <u>Click here</u> | to select.               |
| Diameter:     |         | in. Depth:        | ft. SDR:             |                   |                             |                          |
| Borehole      |         |                   |                      |                   |                             |                          |
| Diameter:     |         | in. Depth:        | ft.                  |                   |                             |                          |
| Diameter:     |         | in. Depth:        | ft.                  |                   |                             |                          |
| Diameter:     |         | in. Depth:        | ft.                  |                   |                             |                          |
| Grouting      |         |                   |                      |                   |                             |                          |
| Well Grouted: |         | T                 |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |
|               |         |                   |                      |                   |                             |                          |

**Casing Fittings:** Click the Click Here to Select link to choose from a list of one or more items from a popup screen. Click the OK or Cancel button when done.

**Grouting:** When "Yes" is selected from the Well Grouted picklist, a series of additional fields will become visible for data entry.

Grout material must be entered from top to bottom.

Do not enter brand names for grouting material or additives.

#### Screen/Water Level Tab

| Well Details | Geology | Casing / Grouting | Screen / Water Level | Completion / Pump | Latitude / Longitude | Contractor / Abandonment |  |
|--------------|---------|-------------------|----------------------|-------------------|----------------------|--------------------------|--|
| Water Le     | vel     |                   |                      |                   |                      |                          |  |
| Static Water | Level:  | ft.               |                      | Flowi             | ng: 🗸 🗸              | ]                        |  |
| Screen       |         |                   |                      |                   |                      |                          |  |
| Screen Inst  | alled:  |                   | ~                    |                   |                      |                          |  |
| Well Yiel    | d Test  |                   |                      |                   |                      |                          |  |
| Yield Test M | ethod:  |                   | ~                    |                   |                      |                          |  |
| Pumping Le   | vel:    | ft. Time:         | hrs. Rate:           | (GPM)             |                      |                          |  |
| Pumping Le   | vel:    | ft. Time:         | hrs. Rate:           | (GPM)             |                      |                          |  |
| Pumping Le   | vel:    | ft. Time:         | hrs. Rate:           | (GPM)             |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |
|              |         |                   |                      |                   |                      |                          |  |

**If the Well was Flowing**: If "Yes" is selected from the Flowing picklist, the Unrestricted Flow Rate will become visible for data entry.

**If a Screen Was Installed**: If "Yes" is selected from the Screen Installed picklist, a series of additional fields will become visible for data entry.

If Screen Was Not Installed: If screen is not installed, you must provide a reason why.

**Slot Size:** Slot size must be entered as a whole number. If .006, enter as 6. If .010, enter as 10, and so on.

**Screen From and To:** Screen length must be entered from top to bottom (for example 55' to 75', not 75' to 55').

**Screen Fittings:** Click the Click Here to Select link to choose from a list of one or more items from a popup screen. Click the OK or Cancel button when done.

## **Completion/Pump Tab**

| ell Details Geology Casing / Grouti     | ng Screen / Water Level | Completion / Pump | Latitude / Longitude                             | Contractor / Abandonment |  |
|---|-------------------------|-------------------|--|--------------------------|--|
| Wellhead Completion                     |                         |                   |  |                          |  |
| Wellhead Completion: Click here to sele | <u>t.</u>               |                   |  |                          |  |
| Nearest Sources of Possible C           | ontamination            |                   |  |                          |  |
| Type: 🔽 🗸 Dist                          | ance: ft. Direction:    | · · · ·           |  |                          |  |
| Type: 💙 Dist                            | ance: ft. Direction:    |                   |  |                          |  |
| Pump                                    |                         | Pre               | ssure Tank                                       |                          |  |
| Pump Installed:                         | <b>v</b>                | Press             | ure Tank Installed:<br>Pressure Relief Valve Ins | stalled                  |  |

**Wellhead Completion List:** Click the Click Here to Select link to choose from a list of one or more items from a popup screen. Click the OK or Cancel button when done.

Nearest Sources of Contamination: Use the "Guide for Entering Sources of Contamination".

| ENTRY ON WELL RECORD                   | WELLOGIC DATA ENTRY |
|--|---------------------|
| SDS, SP, Sewage, Septic                | Septic Tank         |
| Field, Tile Field, Leach Field         | Drainfield          |
| Sanitary Sewer, Municipal Sewer, Sewer | Sewer Line          |
| Sewage Ejector, Ejector, Pump, Sump    | Sewage Pump Chamber |
| Barn Yard, Cattle Pen, Hog Pen         | Animal Yard         |
| Fuel Oil, Kerosene, Diesel             | Fuel Tank           |
| Lake, River, Pond, Creek               | Surface Water       |
| Not Yet Installed                      | None                |

#### Guide for Entering Sources of Contamination

**If a Pump was Installed**: If "Yes" is selected from the Pump Installed picklist, a series of additional fields will become visible for data entry.

**If a Pressure Tank was Installed**: If "Yes" is selected from the Pressure Tank Installed picklist, a series of additional fields will become visible for data entry.

#### Latitude/Longitude Tab

| Well Details  | Geology      | Casing / Grouting | Screen / Water Level | Completion / Pump               | Latitude / Longitude | Contractor / Abandonment |        |
|---|--------------|-------------------|----------------------|---------------------------------|----------------------|--------------------------|--------|
| Latitude  | / Longit     | ude               |                      |                                 |                      |                          |        |
| Latitude:<br>Collection M<br>Date of Coll<br>Check La | lethod:      | Longitude Accurac | ✓<br>✓               | Longi<br>Accur<br>Sourc<br>Rema | tude:                |                          | ^      |
| Show Adva   | nced Options | 2                 |                      |                                 |                      |                          | $\sim$ |
|   |              |                   |                      |                                 |                      |                          |        |
|   |              |                   |                      |                                 |                      |                          |        |
|   |              |                   |                      |                                 |                      |                          |        |
|   |              |                   |                      |                                 |                      |                          |        |

**Latitude and Longitude:** The latitude and longitude <u>must be</u> entered in decimal degrees, not degrees minutes or degrees minutes seconds. If you enter a Latitude or Longitude not found in Michigan, the field will display an error.

**Longitude:** Enter the minus sign in front of the longitude.

**Collection Method:** Always choose "...GPS...SA Off" when using a GPS unit. If you collected the coordinates using a mapping program, select "Interpolation-Map" or "Interpolation-Aerial Photo".

Accuracy: Enter "10" and choose "Meters".

Source: Always choose "Contractor".

Date of Collection: Enter the date the coordinates were collected.

Advanced Options: Skip these fields. They are not required.

**Checking the Accuracy of Latitude and Longitude:** Wellogic offers a means to verify that the latitude and longitude coordinates match with the County, Township, Town/Range, and Section entered on the Well Details tab. Click the Check Latitude and Longitude Accuracy button to bring up the following screen:

#### Map Location Selector

The grid below this map compares the county, town/range, and section data with the latitude and longitude location (as entered into Wellogic). If the latitude and longitude you entered is not correct, double-click on the map to move it to a new location. The grid below will be updated as needed. To save the revised data, click "Update". Clicking "Cancel" will exit the map without making any changes to the Wellogic record.



The red map marker shows the location of the well at the latitude/longitude coordinate entered into Wellogic. To move the pushpin to a different location, double click on the map. The red marker will move to the new location.

A message area appears at the bottom of the screen. In this area, the County, Township, Town/Range and Section as entered on the Well Details tab are shown across the top row (captioned "Location Specified on the Well Details Tab"). The row beneath it is the County, Township, Town/Range and Section based on the location of the red marker (captioned "Location of Map Marker"). Each time the red marker is moved, the calculated county, etc. are updated.

Click the Update button to use the current location of the red marker to update the Latitude/Longitude Coordinates AND the County, Township, Town/Range and Section on the Well Details tab. The Update button will only be active if the map marker is moved. If the initially entered latitude and longitude are correct, but the Well Details values are not, click Cancel, then return to the Well Details tab to update those values manually.

Click the Cancel button to close the Popup screen without making any changes to the well record.

#### **Contractor/Abandonment Tab**

| Contractor Plugging Information |                                |      |                                 |                           |          |
|---------------------------------|--------------------------------|------|---------------------------------|---------------------------|----------|
| ontractor Type:                 | Water Well Drilling Contractor | ∼ At | bandoned Well Plugged:          | Yes 🗸                     |          |
| egistration Number:             | 72-2106                        | ✓ 01 | riginal Drilling Record Well ID | : Link to Drilling Record |          |
| egistered Contractor Name:      | Thomas W Jordan                | La   | atitude:                        | 44.314183                 |          |
| usiness Name:                   | Jordan Well Drilling           | La   | ongitude:                       | -84.633055                |          |
| ddress:                         | 247a Nellsville Rd             |      | Check Latitude and Longi        | tude Accuracy             |          |
| ity, State, Zip:                | Houghton MI ¥ 48629            | w    | ell Diameter:                   | 2.00 in                   |          |
| rilling Machine Opera           | tor                            | w    | ell Depth:                      | 250.00 ft.                |          |
| perator Name:                   | Tom Jordan                     | Pl   | ugging Material:                | Bentonite slurry          | ~        |
| mployment:                      | Employee                       | ✓ Qi | uantity Used:                   | 2.00 Bags                 |          |
| ump Installer                   |                                |      | Casing Removed                  |                           |          |
| Pump Installer Different fro    | om Drilling Machine Operator   |      |                                 |                           |          |
| eneral Remarks                  |                                |      |                                 |                           |          |
|                                 |                                |      |                                 |                           | <u> </u> |
|                                 |                                |      |                                 |                           | 0        |

**Contractor Name and Address:** The contractor's name and address information is automatically filled out with the current user's information. If this information is incorrect, please update it on the User Profile screen as described in the *Updating Your Profile* section of this document.

**When Plugging Information Does Not Apply:** The Plugging Information area (on the right half of the screen shown above) will not display in some circumstances. This is dependent upon the Well Type on the Well Details tab.

**If a Replacement Well was Drilled, but the Existing Well was not Plugged:** Choose "No" from the Abandoned Well Plugged pick list. A new pick list will appear captioned "Reason for not Plugging Well". This information must be supplied.

**If an Existing Well was Plugged:** Choose "Yes" from the Abandoned Well Plugged pick list. A series of additional fields will display allowing for information to be entered about the existing well.

A Link to Drilling Record link will appear among the new fields. If you know the Well ID number of the original drilling record for the plugged well, click this link. You may then enter the Well ID, if known, or a search can be performed to locate the Well ID of the original drilling record.

The Check Latitude and Longitude Accuracy button works in a similar manner to that which is described on the Latitude/Longitude tab above, however it does not compare the location of the red marker with the information on the Well Details tab since the location of the plugged well and replacement well are not the same.

**Submit Record:** Upon completion of all seven tabs, click the submit button. A confirmation screen will indicate the Well ID of the newly created record. Any validation errors will need to be resolved before the record will save.

#### **Print the Record**

Click to Print This Well Record to view the well record in PDF format.

## Adding an Abandoned Well Plugging (AW) Record

The AW form consists of a series of four tabs, each recording different information about the well plugging activity.

New Record

The image below shows the AW data entry screen.

#### ABANDONED WELL PLUGGING RECORD

| Basic Information  | Well Location  |
|--|--|
| Fax No:  | County:  Township: Select Township  Town/Range: Sele  Section: <u>Click Here</u> |
| Well Address   |  |
| Distance and Direction from Road Intersection:   | Address:City:  |
| Well Owner   | Well Details   |
| Owner Address Same as Well Address       Owner Name:       Address:       City:       State: | Well Use:  Well Construction Type:   Date Drilled: Date Plugged:                 |

The tabs displayed are as follows:

- 1. Well Details The well location, well owner, well use and status.
- 2. Plugging Materials The plugging materials used to plug the well.
- 3. Latitude/Longitude The geographic coordinates (location) of the well.
- 4. **Contractor/Abandonment** The contractor, information about the plugged well, and any general remarks.

The AW data entry functions the same as the WW data entry. Some notes are as follows:

Enter plugging materials in order of increasing depth. Add a row for each type of plugging material used. Start by entering material used at the shallowest depth first and continue onward to increasing depth. The plugging material unit is automatically chosen based on the plugging material.

A Link to Drilling Record link is visible on this form. If you know the Well ID number of the original drilling record for the plugged well, click this link. You may then enter the Well ID, if known, or a search can be performed to locate the Well ID of the original drilling record.

If equipment was removed from the well, check the Equipment Removed checkbox. It will then be necessary to indicate what equipment was removed. Click the Click Here to Select link to choose from a list of one or more items from a popup screen. Click the OK or Cancel buttons when done.

#### Submit the Record

Upon completion of all four tabs, click the Submit button located at the bottom right side of the screen, below the tabs. It may take up to several seconds to complete the submission. A confirmation screen will indicate the Well ID of the newly created record. Any validation errors will need to be resolved before the record will save.

#### Print the Record

Click to Print This Well Record to view the well record in PDF format.



## Abandoned Well Plugging Record

Completion is required under authority of Part 127 Act 368 PA 1978. Failure to comply is a misdemeanor.



| Tax No: 05-10-6-33-2013-000         | Permit No:                 | County: Sagir         | naw                              | Township: Bird        | ch Run             |  |  |
|-------------------------------------|----------------------------|-----------------------|----------------------------------|-----------------------|--------------------|--|--|
|                                     |                            | Town/Range:           | Section:                         | WSSN:                 | Source ID/Well No: |  |  |
| Wall ID: 7200                       | 0007056                    | 10N 06E               | 33                               | <                     | 8                  |  |  |
| veil ID. 7300                       | 0007036                    | Distance and I        | Direction from Roa               | d Intersection:       |                    |  |  |
| Elevation:                          |                            | South of Burt R       | oad on the east sid              | e of Beyer            |                    |  |  |
| Latituda: 42.00001                  |                            | Wall Owner            | Annia Construction               |                       |                    |  |  |
| Latitude: 43.22931                  |                            | Well Address:         | Aspin Construction               | Owner Addres          |                    |  |  |
| Longitude: -83.7745                 |                            | 12440 Rever           | 13440 Rever Road 8768 Manle Road |                       |                    |  |  |
| Measurement Method: GPS             | Std Positioning Svc SA Off | Birch Rup MI          | 49415                            | Bridgeport M          | 49722              |  |  |
|                                     |                            | Diren Kun, Mi         | 140415                           | Drugeport, Mi         | 140722             |  |  |
| Date of Well Plugging:              | Well Use:                  | Casing Status         | after Plugging:                  | 4.00 ft. below grade  | 1                  |  |  |
| 4/25/2017                           | Household                  | Reason for Ab         | andoning Well:                   | Well no longer neede  | ed                 |  |  |
| Well Construction Type:             | Date Well Constructed:     | Abandonment           | Method: Pumpe                    | d through grout pipe  |                    |  |  |
| Bedrock Well                        | 6/20/2016                  | Drilling Record       | d: 73000006980                   | discust services      |                    |  |  |
| Casing Type: PVC plastic            |                            | Pumping Equi          | pment Removed:                   | Yes                   |                    |  |  |
| Diameter: 5.00 in. to 99.00 ft. dep | <i>i</i> th                | Equipment Re          | moved: Submers<br>pipe           | ible pump, Pitless ac | Japter spool, Drop |  |  |
| Measured Well Depth: 99 ft.         | Well Diameter: 5 in.       |                       |                                  |                       |                    |  |  |
|                                     | Note: Cutting casing off   | 4 feet below grade is | recommended.                     |                       |                    |  |  |
| Pluggi                              | ing Material               | From (ft)             | To (ft)                          | Quantity              | Quantity Unit      |  |  |
| Neat cement                         |                            | 0.00                  | 145.00                           | 18.00                 | Bags               |  |  |
|                                     |                            |                       |                                  | 1                     |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       | 1                  |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       | 4                  |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  | -                     | -                  |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       | 5                  |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            | 1                     |                                  |                       | -                  |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       | 1                  |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
| Plugging Remarks:                   |                            |                       |                                  |                       |                    |  |  |
|                                     | Note: Plugging from well b | ottom up to ground s  | urface is required.              |                       |                    |  |  |
| Certification: Water Well Drilling  | Contractor                 | Business Name         | e: Ed Birkmeier W                | ell Drilling          |                    |  |  |
| Registration No: 78-1607            |                            | Address: PO           | Box 324                          |                       |                    |  |  |
| Registered Contractor: Edward       | A Birkmeier                | Nev                   | w Lothrop, MI 48460              | )                     |                    |  |  |
| Remarks:                            |                            | Wa                    | ter Well Cont                    | ractor's Certif       | ication            |  |  |
|                                     |                            | This well pluggin     | o was performed u                | nder my registration. |                    |  |  |
|                                     |                            | 1.00                  |                                  | , ,                   |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
|                                     |                            | Signature of R        | egistered Contrac                | tor Date              |                    |  |  |
|                                     |                            | and the second second |                                  | 10115 (St. 143)       |                    |  |  |
|                                     |                            |                       |                                  |                       |                    |  |  |
| 505 0044 (50555)                    | 2 4 4                      |                       |                                  |                       |                    |  |  |
| EQP-2044c (5/2009)                  | Page 1 of 1                |                       |                                  | Contractor            | 5/8/2017 2:50 PM   |  |  |

Example Abandoned Well Plugging Record Generated by Wellogic

## Modifying an Existing Record

Contractors may modify a well record up to 10 days after the record is added to Wellogic provided the well record was submitted within the 60 day submittal requirement. Contractors may only modify records that they themselves entered. Contact the Wellogic Help for assistance if it is determined that a correction is needed to a submitted well record after this period has passed.

To modify a record, follow the steps below:

- 1. Return to the Contractor Home screen by clicking the Home link on the navigation bar that appears near the top of any screen.
- 2. Select the "Well Records Available to Modify" tab.
- 3. Click the link for the WW or AW record you wish to edit.

The selected record will display. Make the desired modifications and click the Re-Submit button when finished.

## Adding a Pump to a Water Well Record

To add a pump to a well using Wellogic, follow the steps below:

- 1. Return to the Contractor Home screen by clicking the Home link on the navigation bar that appears near the top of any screen.
- 2. Select the "Submit a Well Record" tab
- 3. Select the option for "Pump Installation Only Record".
- 4. The next step will depend on whether or not you entered the drilling record into Wellogic for which the pump was added:
  - a. **No, I did not enter the original drilling record into Wellogic:** Leave the "I Entered the Drilling Record" box unchecked and click the Continue button. A new WW data entry form will display. Wellogic will automatically set the Pump Installation Only pick list to "Yes". Continue adding the well record information as described in the *Adding a Water Well and Pump Record* section above.
  - b. Yes, I entered the original drilling record into Wellogic: Select the "I Entered the Drilling Record" checkbox. A textbox will appear allowing you to enter the Well ID of the original drilling record to which the pump was added. Either type the Well ID (if known) or click the Continue button to search for the drilling record. Once the Well ID is selected, Wellogic will open the Original Drilling record and will automatically set the "Pump Installed" pick list to "Yes". Add the pump installation information to the Completion/Pump Tab and re-submit the record to update it with the new pump information.

Note: After the pump is added to the well record using this process, the record will then automatically reappear to the local health department indicating the pump was added.

## **Running Reports**

Wellogic includes a number of built-in reports. To access the reports, follow the steps below:

- 1. Select the Reports link on the navigation bar that appears near the top of any screen. A list of built-in reports available to the user is displayed.
- 2. Select the desired report from the list.
- 3. Enter the information needed for the report, such as choosing a specific location, Well ID, contractor, or date range. Each report requires different information to be entered.
- 4. Click the Run Report button.

Reports can be exported in a variety of formats using the toolbar that appears at the top of the report. Export formats include PDF, Excel spreadsheet, or others.

## **Updating Your Profile**

Contractors can edit their name, email address, phone, and fax number at any time. Contractors can also edit the list of counties assigned to their account. County lists that appear elsewhere within Wellogic will be filtered to only show the selected counties. This provides the convenience of not having to scroll through a list of counties which are of little interest to the contractor.

Business information is displayed on this screen, but cannot be edited. Contact the Wellogic Help if you need to edit the business name or address.

|  |   | User Profile   |  | 0   |
|--|---|--|--|---|
| Contact Informa  | ation   |  |  |   |
| Registration Num   | ber: 98-0000  | Group*:  | Contractor   | $\sim$  |
| First Name*:   | Test  | Phone 1:   | (800) 555-1234   |   |
| Last Name*:  | Contractor  | Phone 2:   |  |   |
| Address Line 1*:   | Address1  | Fax:   | (800) 555-5678   |   |
| Address Line 2:  |   | Email:   | ladouceura@michigan.gov  |   |
| City*:   | CityName  |  |  |   |
| State*:  | MI V Zip*: 48912  |  |  |   |
| Crawford, Delta, Dic<br>Jackson, Kalamazoo,<br>Menominee, Midland<br>Ottawa, Presque Isle<br>Business<br>Test Business | kinson, Eaton, Emmet, Genesee, Gladwin,<br>Kalkaska, Kent, Keweenaw, Lake, Lapeer<br>Missaukee, Monroe, Montcalm, Montmor<br>, Roscommon, Saginaw, Sanilac, Schoolcr<br>Roscommon, Saginaw, Sanilac, Schoolcr<br>(313) 555-1: | Gogebic, Grand Traverse, Gra<br>, Leelanau, Lenawee, Livingste<br>ency, Muskegon, Newaygo, Oa<br>aft, Shlawassee, St. Clair, St. | tiot, Hillsdale, Houghton, Huron, Ing<br>n, Luce, Mackinac, Macomb, Maniste<br>kland, Oceana, Ogemaw, Ontonagon<br>Joseph, Tuscola, Van Buren, Washter | iam, Ionia, Iosco, Iron, Isabella,<br>e, Marquette, Mason, Mecosta;<br><u>Osceola, Oscoda, Otsego;</u><br>iaw, Wavne, Wexford<br>Save |
| 123 Michigan Ave.  | Fax:  |  |  |   |
| Lansing, MI 48912<br>To update the contact in<br>Help at <u>wellogic@michig</u>  | Email:<br>formation above or to change your challenge questio<br><u>an.qov</u> or 517-284-6533 (Anita).   | ns, contact Wellogic   |  |   |
| Change Passwo  | rd  |  |  |   |
|  | Your password<br>Passwords<br>Contain at<br>Old Password:<br>New Password:<br>Confirm Password:   | rd must meet the following crit<br>s must be at least 5 characters<br>t least one lowercase character                            | eria:<br>long.   |   |

## Changing your Password

Users may change their password at any time by using the Change Password section of the User Profile screen. To change your password, follow the steps below:

- 1. Select the Profile link on the navigation menu that appears near the top of any screen. The User Profile page will display.
- 2. Enter the existing password in the Existing Password field.
- 3. Enter the new password in the New Password field.
- 4. Enter the same password again in the Confirm Password field.

Click the Change Password button when done.

## **Requesting an Account**

Requesting a new account can be done online from the public <u>Wellogic home page</u>. (https://secure1.state.mi.us/wellogic/Login.aspx).

To request a new account, follow the steps below:

- 1. From the Wellogic Home Page, click the <u>Request an Account</u> link located within the Log In box. An Account Request screen will appear.
- 2. Select "Contractor" from the Account Type pick list.
- 3. Enter your contact and business information into the account request form.
- 4. Select the counties by clicking the Click Here to Select link.
- 5. Click the Submit Request button when done. A Wellogic administrator will review and approve or deny the account request. If you supplied an email address, the account activation email will be delivered via email. Otherwise, the applicant will be contacted by the Wellogic Help with the User ID and a temporary password.