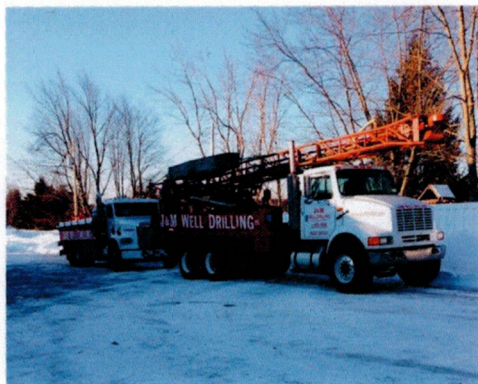


# THE WELL DRILLING CONSTRUCTION PROCESS

**J & M WELL DRILLING, INC.**

- OBTAINING A PERMIT
- WHAT TO EXPECT
- AFTER DRILLING
- WATER SAMPLES AND  
FINAL INSPECTION
- DOCUMENTATION
- SPECIAL REQUIREMENTS
- TIPS AND OTHER INFO



## 1. OBTAINING A PERMIT

### How to Obtain Your Permit...

Go to your local county's Health Department to obtain a **Water Well Permit**

-The **Environmental Health Division** of the local Health Department will issue the permit

-J&M may be able to offer assistance in obtaining the permit at no charge, depending on the specific county

### After the Permit is Issued...

Contact our office:

Phone: (517) 675-5956

or

Send/fax a copy of the permit to us:

J&M Well Drilling, & Service, Inc.  
7589 Lansing Road,  
Perry, MI 48872

e-mail: [JMwelldrilling@aol.com](mailto:JMwelldrilling@aol.com)

Fax: (517) 675-7592

**We must have a copy of your Well Permit** prior to scheduling the drilling of your well. Once we have a copy of the permit, we will review the location and research information on neighboring wells within a one-mile radius of your property. We are then able to determine where to place the well and what to expect for water volume and quality. Since each permit is different and special requirements\* may be noted, we always prepare accordingly before arriving onsite.

\*Special requirements may include:

- Cement grout
- Steel Casing
- Specific isolation distances

We will contact **Miss Dig** to flag any underground utilities prior to the drilling of your well.



## 2. WHAT TO EXPECT WHEN WE ARRIVE TO DRILL YOUR WELL

### The New Well Installation Process Generally Takes Two Days...

On the first day, we drill the well using a rotary style well rig and water truck. (Each truck is roughly the size of a semi.) After the well is drilled, it is then capped and pressure grouted. It typically takes the majority of one working day\* (5-8 hours) to complete the construction of a new well from start to finish.

\*Depending on the well depth and geological formations we have to drill through, the amount of time required may vary. On the second day, we come back to set the pump in the well. The submersible pump is set on the drop pipe and placed down into the well and into the water table. We will have a backhoe on-site to dig a trench (which will hold the underground electrical wiring and waterline) from the wellhead to the foundation of the home. We typically enter the home through the same wall we set the pressure tank on, which allows for maximum flow capacity. The pressure tank will be set in your basement on the wall closest to the (proposed) wellhead.

If you have an existing well that we will be abandoning/plugging, this will not take place until after the pump is set in the new well. This is to ensure that you will not be without water for an extended period of time. We would disconnect the existing well immediately before connecting/hooks up the new well system.

### After the New Well Installation...

All of our sites are finished to rough grade upon completion, and we take pride in leaving our sites as clean as possible after construction. We pay attention to detail and make sure to rake out any drill material and the muddy mess caused by well installation.

Yard work **will** be necessary:

- The trench will settle, but reseeding will most likely be required
- Photo references from our previous jobs can be provided upon request, in case there is any concern about the condition of your yard after the well installation.

### Alternate Option for Running the Waterline and Wiring

A horizontal bore can be used instead of digging a trench with a backhoe. If you are interested in this option as an alternative, please note that there would be an additional charged involved in this process.



### 3. AFTER YOUR NEW WELL HAS BEEN DRILLED

We are required to **chlorinate** your new well upon completion. If the plumbing is intact and we have access to the inside of the home, we will bring chlorinated water from the well up into your plumbing\*. We recommend that you let the chlorinated water sit in the plumbing **overnight** to allow for enough contact time to facilitate proper disinfection.

\*If you are not on-site when we complete the well, you will need to bring the chlorinated water from the well up into the plumbing yourself. To do this, turn on all faucets in the home until you can smell the chlorine; then shut the water off at each faucet, allowing the water to remain in the plumbing overnight.

#### After Chlorination, You Will Need to Flush the Chlorinated Water...

It is easiest to hook a hose up to an outside spigot to flush the system. (If you do not have access to an outside spigot, please contact our office for alternate flushing methods.) **Please be sure to direct the hose's water flow away from both the house and drain field area.** Once the hose is hooked up, turn the water on and let it run for 24 hours (minimum)\* or until you are no longer able to detect the smell of chlorine in the water.

\*The longer you allow the system to flush, the better off you will be. The time it takes to flush the chlorine will vary for every well system. If you are unsure about the duration of time required, it is always best to allow it to flush a while longer.



#### IMPORTANT!!!

Once you have flushed the plumbing (the chlorine smell is gone) you are able to use the water in your home for everything **EXCEPT** drinking (pets/animals included) and cooking purposes\*

\*You **MUST** wait for safe water sample results before drinking or cooking with your new well water

## 4. WATER SAMPLES AND FINAL INSPECTION

All new wells require a final inspection and water samples\*.

-If we applied for the permit for you, we will typically coordinate this step for you as well

-If you applied for your own permit, please refer to either the permit or your local Health Department regarding information on the required final inspection and specific water samples

(Depending on the county in which you reside, the water samples may or may not be included in the initial permit fee.)

\*If you are planning to take the samples yourself but are unsure of the specific requirements for your water samples or would like assistance with water sample collection procedures, please contact our office.

### Once Your Final Inspection is Complete and Water Samples Have Been Collected\*...

Upon completion of the final inspection, the sanitarian will sign off on your well permit noting final approval. This means the county has verified that the new well system is satisfactory and meets their requirements.

\*If you collected your own water samples, you will need to make sure the results are submitted to your local Health Department

### If Your (Bacteria) Water Samples Do Not Come Back "Safe"...

Do not panic!!!

*Coliform bacteria* are an "indicator" of organisms found in the soil, on hands, etc. and are not necessarily harmful. If coliform bacteria are present in the water sample, a re-chlorination\* will be necessary.

\*Please contact our office for an additional chlorination if you received a positive/present result.

## 5. WELL DOCUMENTATION AND RECORDKEEPING

We will send copies of the **Water Well & Pump Record\*** to you, the local Health Department and the MDEQ (Michigan Department of Environmental Quality).

\*This record includes the construction details of the well and pumping equipment. Well depth, pumping rate, penetrated geological formations, static water level and drilling method are among the details featured on the record.

When you receive your copy of the well record, please file it away with your property deed or other important property documents.

## 6. SPECIAL REQUIREMENTS (FUNDING)

Depending on how you choose to fund your new well system, you may need to meet special requirements:

-If you will be using a lender such as **FHA** or **HUD**, the well location and required water samples may differ from the local Health Department's standard regulations (e.g. A new well in Shiawassee County is required to be 50+ feet from the septic tank and drain field.)

-If you choose FHA specifically as your lender, there are specific well and septic guidelines (e.g. A well must be 100+ feet from the septic system.)

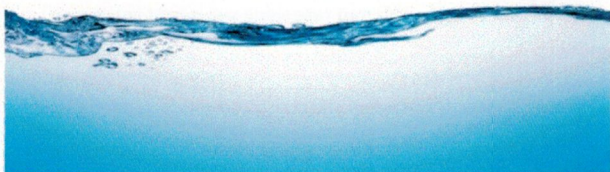
For a complete list of guidelines and FAQs about what is required for your specific installation, please call our office.

## 7. TIPS AND OTHER INFORMATION

We recommend taking pictures during the hookup portion of the well installation. The most important area to photograph is the **trench** (which runs from the well to the home) so that in the future you are able to recall exactly where and how the waterlines run underground.

**We encourage both Chlorination and Water Sampling of your well system annually.** We recommend having a service technician perform your first chlorination with a responsible party present to watch the entire process. Chlorination is a fairly simple procedure, and something that can be performed easily with the proper knowledge and material\*.

\*Either granular or liquid chlorine are recommended for chlorination



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