

# How Do Deep Well Water Pumps Work?



Homeowners relying on a well for their water supply might be curious about the inner workings of that intriguing contraption known as the ***well pump***. How does it get the precious water from deep beneath into your home? Clear all your qualms with this blog, exploring the mysterious behind-the-scenes of suitable pumps while encapsulating their indispensable role in ensuring a continuous water supply. Let's uncover the magic that lurks under the surface.

## Unveiling the Heart of Your Water Supply

### The Fundamentals — What is a Well Pump

A pump is a water well system's critical component responsible for drawing water from the well and bringing it to your home to fulfill different purposes, like drinking, cooking, cleaning, etc. Its installation is complex and arduous, necessitating a team of professionals to ensure apt and



quality **water well drilling in Fallon, NV**. Enlist them to deliver lasting results while maintaining an incessant water supply.

## **Submersible vs. Jet Pumps: The Two Main Types**

Submersible and jet pumps are the two most prevalent types of well pumps, each having a distinctive way of operating but with a similar goal — to deliver water from the well to your tap.

- ***Submersible Pumps:***

Submersible pumps are installed deep inside the well, often near the bottom of the well, making them effective in deeper wells. Here's a sneak peek at their workings:

- **Protection from the Elements:**

Since submersible pumps are submerged, they remain safeguarded from weather conditions, lowering the chance of damage.

- **Direct Pumping:**

These pumps force water up the well to the surface, providing a consistent flow.

- **Energy Efficiency:**

These pumps are usually more energy-efficient as they don't have to work as hard to lift the water.

- ***Jet Pumps:***

Jet pumps are installed above ground and use suction to draw water from the well. Here's a blurb of its functioning:

- **Two Pipes:**

Jet pumps contain two pipes — one to draw water up from the well and the other to circulate water back down into the well, forming a cycle.

- **Suction:**

The vacuum the pump creates draws water up the first pipe and into the pump.

- **Pressurizing:**

The water is then pressurized and sent through the second line into your home by the pump.

### **The Heart of the Operation — How Well Pumps Function**

The fundamental principle of well pumps, whether submersible or jet, is to create pressure to transfer water. When you turn on a faucet in your house, the pressure lowers, prompting the well pump to activate. Wanting to learn **how**? Here's a streamlined, step-by-step procedure:

- ***Pressure Drop:***

When you turn on a faucet, the pressure in the water pipes reduces.

- ***Pressure Switch:***

A pressure switch in the well pump control box detects the pressure drop.

- ***Pump Activation:***

The pressure switch signals the well pump to activate.

- ***Water Movement:***

Depending on the type of pump, it either pushes water directly up (submersible) or produces suction and pressure (jet) to move water. However, if you're dubious of what type of pump you have, you may contact professionals offering services of **water well pumps in Fallon, NV**, to detect the type.

- ***Pressure Buildup:***

The pressure in the system rises when water is pushed into your house.

- ***Pressure Recovery:***

When the pressure reaches a predetermined level, the pressure switch turns off the pump until you open a tap anew.



## **Maintaining Your Well Pump**

While well pumps are constructed to last, they might develop faults with time, akin to any mechanical item. Thus, investing in periodic repairs and inspections is vital to avert escalated damage and expensive water well pump repair and ensure steady water running.

### **Final Thoughts**

Now that you know how a well pump works, you can appropriately appreciate its role in supplying you with a reliable and steady water supply. Remember to choose competent specialists for water well drilling, installation, and repair to guarantee your well pump remains the unsung hero underneath your property, maintaining the comfort and well-being of your family.

### **SOURCE**

**<https://brucemackay.livepositively.com/how-does-a-well-pump-work/>**