

# Thursday 1 November - Your water pumping system Myth or Reality?

## Myth

Water drawn from a surface well, a deep well or a lake with private pumping systems, don't have the water flow municipal water has.

## Reality

If you have a water flow problem, the chance is you don't have the proper system for the application. If you are not satisfied with the performance of your water pumping system, investigate your options, because with the proper choice for the application, if a well's production is good, you can have the desired performance to serve your residence with water.

## Examples :

Constant pressure electronic submersible pump (equal pressure on all taps in the house, even when all taps are open)

Electronic submersible pump with built in protection (if water run is out in the well, the pump stops automatically for it's own protection)

The traditional pumps, submersible or jet pump (centrifugal), they will give you the adequate flow, when chosen properly for the application.

## Rural Water Pumping System

1. Well: A well, or another source of water.
2. Pump: A pump, to bring water from the well to the house.
3. Reservoir: A reservoir, for automatic operation of water pumping system.

## Well

Wells are not deep (maximum 25') or deep (more than 25'). Other water sources are underground cistern and water from lakes, rivers or springs

If your well existed before June 15th 2002, it is important to verify for your own protection: that the tubular well is above ground 12", verify the surrounding and landscaping around the

well, do not let water accumulate around the well, and the imperviousness of the well cap. These criterium are important because they can save your well from infiltrations of bacteria, E-Coli, virus, protozoa, or insect contamination (earwig, spiders, ants, etc.) reptiles or vermin. Why take a chance? To avoid any serious problems, one verification is needed.

### Pumps

Jet pump (centrifugal) are installed out of the well, they can be used for surface well or deep wells. Pumps immersed in the well are called submersible pumps and can be used for the same well mentioned above. (Note: Manufacturers suggest the functioning time of the water pumping system from 1 to 1.5 minutes, to prevent premature wear and tear of the pump and the electrical cable in the well.)

### Reservoirs

Problems to avoid: if your reservoir is too small or the reservoir has a defective diaphragm that doesn't keep it's air, the pump will cycle continuously; this can damage the pump or the electrical cable, and can shorten the life of your water pumping system. If you have a reservoir with a defective diaphragm, the water will rust the interior of the reservoir, this will affect the quality of your water.

Your private water pumping system works like a municipal system. The difference is that with your private water pumping system, you are responsible for the control and quality of your water and you have your own reservoir instead of a huge "chateau d'eau" (storage reservoir).

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