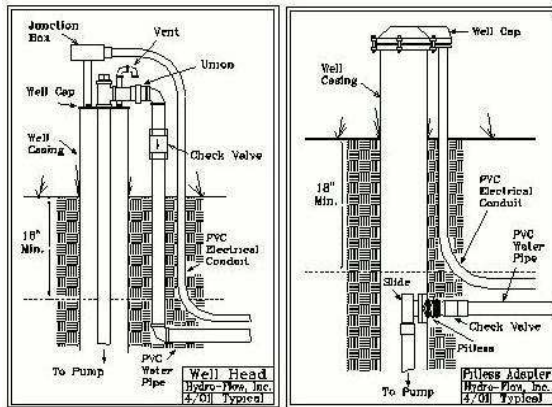


Well Head

The following is a summary of the water level monitoring tasks and procedures that would generally be followed for any domestic well.

1. Research well log.
2. Access the well house, locate the well, and determine the port for measurement access in the well head. This may involve removal of one of four bolt heads showing from the sanitary well seal, or removal of the air vent tube from the sanitary seal (typically the access of choice due to ease of removal).

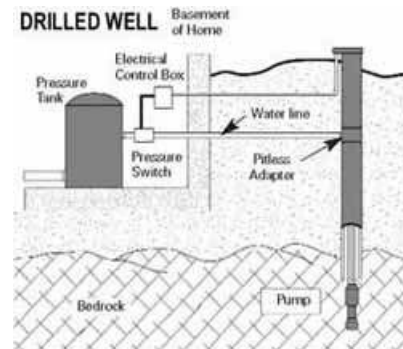


Two Types Of Well Heads

A big help that can be provided by neighbors prior to the water level measurements is to prepare the well head (i.e., clean the pump house for accessibility; spray for wasps, hornets, and black widow spiders; and remove any insulation around well head for access).

Eights Steps For Water Level Measurements

3. Set up the geographic positioning system (GPS) unit to average a latitude and longitude of the well.
4. Decontaminate the water level probe on the water level indicator with a bleach solution.
5. Lower the water level probe into the well until the unit buzzer indicates the water table has been reached. Pull the probe up 1/100 of a foot, and hold for 60 seconds, to see if the water level is recovering. If the water level is not recovering, check to see if the water level is declining (due to nearby pumping from another well in the area). Regardless, note the "hold" measurement from a fixed datum, typically the top of the sanitary seal. Use the tape measure to measure to 1/100 of a foot, correct for tape loss, and note the reading on a data sheet. Also note if the water level was static/stable, pumping/declining or recovering/rising.
6. Identify the height of the measuring point (MP) above ground surface.



Drilled Well

More Information

7. Subtract the MP height from the depth-to-water (DTW) measurement to give the DTW below ground surface (BGS).
8. The water level elevation above sea level will later be calculated once a land surface elevation for the well location is picked from a topo map.



Gall, OWRD, Talking To Hugo Neighbors

The *Sanitary Well Seal* is the cover or cap at the top of the well casing (which is the big pipe sticking out of the ground), where your well is located. The function of the *Sanitary Well Seal* is to protect the water in the well by sealing off above ground access to the well from people, animals, ground water, fertilizers, bird poop and what ever else might want to get in there.

The *Air Vent Tube* allows air into the well, but not insects, spiders and mice. As you pump water out of the well, it allows air to enter the well. It screws into the top of the well seal.

Want more information? Contact an officer of the *Hugo Neighborhood* on how you can become involved in this volunteer well water monitoring program.

1. Hugo Neighborhood Association & Historical Society. 2005. *Volunteer Well Monitoring Program*. Hugo, OR.
2. Hugo Neighborhood Association & Historical Society. 2005. *Scoping – Volunteer Well Monitoring Program*. Hugo, OR.
3. Hugo Neighborhood Association & Historical Society. 2005. *Water Levels*. Hugo, OR.

Hugo Neighborhood Association & Historical Society's Mission

This information brochure is one of a series of documents published by the Hugo Neighborhood Association & Historical Society (*Hugo Neighborhood*). It is designed to be shared with neighbors for the purpose of helping protect our rural quality of life by promoting an informed citizenry in decision-making. The *Hugo Neighborhood* is an informal nonprofit charitable and educational organization with a land use and history mission of promoting the social welfare of its neighbors.

Land Use & History

The *Hugo Neighborhood's* land use mission is to promote Oregon Statewide Goal 1 — Citizen Involvement, and to preserve, protect, and enhance the livability and economic viability of its farms, forests, and rural neighbors. It will act, if requested, as a technical resource assisting neighbors to represent themselves.

Its history mission is to educate, collect, preserve, interpret, and research its local history and to encourage public interest in the history of the Hugo area.

Volunteer membership dues are \$10.00 annually per family and normally used for paper, ink, envelopes, publications and mailings. Make checks to the *Hugo Neighborhood* and send them to our Treasurer. Send us your e-mail address if you want to know what we are doing.

Hugo Neighborhood

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Training On Water Level Measurements



Water Level Indicator

“The function of the Sanitary Well Seal is to protect the water in the well by sealing off above ground access to the well from people, animals, ground water, fertilizers, bird poop and what ever else might want to get in there.”

November 7, 2005

**Hugo Neighborhood Association &
Historical Society
Oregon Water Resources Department**

HNA&HS 2005 - 48

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