

Water Well

North Carolina Practice Job Sheet 642

Prepared for: _____

Prepared by: _____

Farm: _____ Tract: _____ Date: _____



Water well.

DEFINITION

A water well is a hole drilled, dug, driven, bored, jetted or otherwise constructed to an aquifer.

PURPOSES

Water wells are used to:

- ☐ Provide water for livestock, wildlife, irrigation, human, and other uses.
- ☐ Provide for general water needs of farming/ranching operations.
- ☐ Facilitate proper use of vegetation on rangeland, pastures and wildlife areas.

CRITERIA

Laws and Regulations

Water Wells must be planned, designed, and constructed to meet all federal, state, and local laws and regulations, including the North Carolina Well Construction Act.

Well Head Protection

Wells shall be located at safe distances from potential sources of pollution, including unsealed abandoned wells.

Wells shall be located a safe distance from both overhead and underground utility lines and other safety hazards.

Disinfection

Wells shall be disinfected immediately following their construction or repair to neutralize any contamination from equipment, material or surface drainage introduced during construction. The disinfection process shall comply with all local or state requirements.

Water Quality Testing

Sampling and testing shall comply with all applicable federal, state and local requirements. These requirements vary according to the water quality parameters associated with the intended use(s) of the water.

Plans and Specifications

Plans and specifications shall be prepared for the specific field sites in accordance with the Water Well NC NRCS Practice Standard (642) and shall describe the requirements for applying the practice to achieve its intended uses. This plan is attached or will be received _____.

Do not begin construction without NRCS or District approval.

Water Well – Operation and Maintenance Requirements

Landowner: _____ Field Number: _____

This practice will require periodic maintenance and may also require operational items to maintain satisfactory performance. Your operation and maintenance program includes:

- Maintain the well cover securely in place. Protect the area from being damaged by agriculture machinery, vehicles, or livestock. Locks on the well cover and fencing around the well head are strongly recommended.
- All fences, railings, and/or warning signs shall be maintained to provide warning and/or prevent unauthorized human or livestock entry.
- Do not allow any foreign debris to accumulate in the immediate vicinity of the well head.
- Maintain soil and vegetative covering around the well. Keep all surface water from entering or accumulating at the immediate vicinity of the well site. Contact NRCS if any assistance is needed.
- Eradicate or otherwise remove all rodents or burrowing animals. Immediately repair any damage caused by their activity.
- Check metal surfaces for rust and other damage especially sections in contact with earth and with other materials. Repair or replace any damaged sections and apply paint as a protective covering.
- Immediately repair any vandalism, vehicular, or livestock damage.

Additional operations and maintenance requirements specific to this plan:

The well construction records shall be kept on file with the maintenance plan by the owner/operator. As a minimum, the plan should include the following:

Date & Statement of Identified Problem	Corrective Action Taken	Date Corrective Action taken and specific capacity (yield/unit drawdown) of well before and after action taken