

**NATURAL RESOURCES CONSERVATION SERVICE  
CONSERVATION PRACTICE GENERAL SPECIFICATIONS**

**PUMPED WELL DRAIN  
(No.)**

**CODE 532**

**1. Scope**

*The work shall consist of drilling, developing, and installing wells, well screens, conduits, and specified appurtenances including pipelines for drainage manifolds.*

**2. Location**

*The area to be served by the pumped well drain system and location of facilities shall be as shown on furnished drawings or as staked in the field. .*

**3. Public and Private Utilities**

*Utilities are defined to be overhead and underground power or communication lines, and pipelines. All utilities discovered to be in the work area are shown on the drawings or sketches. However, the absence of indicators on the drawings or sketches does not assure the nonexistence of utilities in the work area. The contractor is alerted to conduct his/her own search and discovery for utilities in order to lessen or avoid potential damages. The owner/operator shall complete TX-ENG-80, UTILITIES INVENTORY prior to layout or any ground disturbance and return it to an NRCS representative.*

**4. ALIGNMENT**

Drilled or driven wells shall be round, plumb, and aligned so as to permit satisfactory installation and operation of the pumping equipment to be inserted in the well.

**5. WELL DEVELOPMENT**

The well shall be developed until it has ceased to produce detrimental quantities of sand and until the continuous discharge rate is 20 percent greater than the anticipated normal production rate.

**6. WELL RECORD**

As construction progresses, the contractor shall keep an accurate well log of the types of materials encountered and the depths at which they are encountered, the depth and thickness of the water-bearing strata, progress in sinking the casing, the static water level, and the maximum drawdown. He shall also keep an accurate record of development and test operations.

*Well Drillers may obtain from the Texas Department of Licensing and Regulation (TDLR), Austin, Texas, the Rules, Regulations, and Modes of Procedure of Texas Water Well Drillers, and Procedures and Standards of Water Well Plugging. The landowner and well driller shall be responsible for complying with the above rules and regulations.*

Conservation practice General Specifications are reviewed periodically, and updated if needed. To obtain the current version of this standard, contact the Natural Resources Conservation Service.
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Wells shall be installed according to the specifications for well (642).

### **7. DEPTH OF PIPE MANIFOLD**

*The minimum depth of cover shall be 24 inches for the pipe manifold to facilitate farming operations and to prevent damage.*

### **8. PIPE MATERIALS**

*Pipe used for well installation and manifolds shall be Polyvinyl Chloride (PVC) as specified in ASTM-D-1784, with a maximum SDR of 26 and a minimum pressure rating of 160 psi.*

### **9. Certification and Guarantee**

All materials shall conform to these minimum requirements and to the tests prescribed in the applicable ASTM Specification.

**Certification:** *Copies, signed by driller, of the following shall be furnished NRCS by the landowner and made part of supporting records for the well installation:*

- (1) Copy of drillers log,*
- (2) Certificate stating depth of well, quality, length, and size of casing installed, and length of well screen or casing perforated; and*
- (3) Statement that the installation complies with the rules of the Texas Department of Licensing and Regulation (TDLR).*

**Guarantee:** *The installing contractor shall certify to the purchaser that the materials and installation comply with the requirements of these specifications. He shall furnish the purchaser a written guarantee against defective workmanship and materials to cover a period of not less than one year. He shall record on the guarantee the manufacturer's name and markings of the pipe used.*

The installing contractor shall furnish the Natural Resource Conservation Service a copy of the certification and guarantee, which will be made a part of the supporting records of the Pumped Well Drain System.

### **8. MEASUREMENT**

*The amount of well drain completed as specified will be determined by the number, diameter, and depth of drilled or driven wells, and length, in feet, of each size and kind of casing and suction manifold pipe installed.*

### **10. CONSTRUCTION DETAILS**