ABANDONED DUG OR BORED UNCONTAMINATED WATER WELL EXTENDING INTO UNCONSOLIDATED FORMATION

(For Wells Extending Into Other Geologic Formations and other types of wells. See IL Adm Code 920.120)

NOTES:

1. All work shall be in compliance with Illinois Administrative Code 920.120 Abandoned Wells.
2. Water wells shall be sealed by a water well driller licensed in the State of Illinois, or by an individual meeting the criteria set forth in Illinois Adm. Code 920.120.
3. The Illinois Department Of Public Health shall be notified by telephone or in writing at least 48 hours prior to the commencement of any work to seal the water well.
4. Water well sealing form (IL 482–0631) shall be submitted to the Illinois Dept. of Health or the local Health Dept. not more than 30 days after water well is sealed. Also provide a copy of the form to NRCS.

PLUGGING AND SEALING

5. If possible well casing shall be completely removed from the well either by pulling or over drilling. Casing that cannot be removed completely shall be cut off at a depth greater than the maximum potential frost depth or 2 feet from grade, whichever is greater. Casing to be removed from a collapsing formation shall be grouted concurrently with removal such that the bottom of the casing remains submerged in grout.

6. Each well casing and bore holes shall be completely filled, including annular space outside of the casing of liner. The well casing or dug well liner that was removed shall be disposed of properly.
7. For wells greater than 30 inch diameter, backfill shall be placed and compacted in a manner that minimizes segregation and bulking to prevent surface subsidence.
8. Properties of fill and sealing materials shall conform to characteristics listed in ASTM D5299, Part 6.3. Plugging Materials. Materials to be used shall be kept clean and free of contamination.
9. All well equipment, valves, pipelines, casings, lines, screens, grease, oil, scum, trash and debris shall be removed from the well and immediate area and disposed of in an appropriate manner. Any obstruction in the well shall be removed before initiating the sealing operation.

DISINFECTION

10. Disinfect the well by adding sufficient amount of chlorine to produce 100 parts per million of chlorine in the well water. Agitate by a surge plunger, air pump or other means to mix the solution at the appropriate strength. To ensure complete disinfection cover the well and leave the chemical solution no less than 12 hours prior to sealing the well.

FILL MATERIAL

11. Fill material shall be placed into the well only after the well water has been disinfected. All material shall be placed from the bottom of the well upward by methods that avoid segregation, dilution or bridging of the material.

Fill Materials Include:

- Pea gravel or limestone chips; clean and disinfected.
- Clean surface clay — May only be used in dug or bored wells — Material of local origin from below the topsoil, free of organic material, pesticides, hydrocarbon residue and other contaminants with a medium or loamy texture or classified as a silty clay (CL — VL) or lean clay (CL) in the unified soil classification system.
- In lieu of using fill material, the well may be sealed from the bottom up using approved sealing materials.
- Where geologic data do not exist, the well must be sealed from the bottom up using approved sealing materials.

SEALING MATERIAL

12. Any of the following shall be used for sealing materials shall be used as shown on drawing:

- Neat Cement Grout — Mixture of cement and water with not more than 6 gallons of fresh water per 94 lb sack of Portland cement.
- Any bentonite product manufactured for water well sealing (follow manufacturer’s directions).
- Clean surface clay — May only be used in dug or bored wells.
- Concrete or cement may be used for sealing upper 20 feet of the well if the upper part of the well is dry.

TOP SOIL

13. Compacted, uncontaminated surface soil shall be topsoil of local origin, free from pesticide, hydrocarbon residue and other contaminants, and shall be placed and compacted over the well seal (cap) from the top of the casing or a minimum of 2 feet. The ground surface at the sealed well site shall be mounded and graded in a manner that prevents ponding of surface water.

14. On areas not farmed, the disturbed area shall be vegetated in accordance with Conservation Practice Standard 342—Critical Area Planting.
Basic Well Data And Estimated Quantities

1. Type of formation (Check One)
   - [ ] Unconsolidated
   - [ ] Creviced or Non Creviced
   - [ ] Artesian
   - [ ] Unknown

2. Type of well (Check One)
   - [ ] Drilled
   - [ ] Bored
   - [ ] Auger
   - [ ] Buried Slab
   - [ ] Unknown

3. Well Depth, ft_________

4. Inside Diameter, in_________

5. Disinfectant, gal_________, type_________
   (For household laundry bleach @ 5.25% chlorine, use 1.9 gal bleach per 1,000 gal water in well)

6. Fill Material, cu yds_________

7. Sealing Material, cu yds_________

8. Topsoil fill cu yds_________

Operation & Maintenance
1. Site shall be inspected periodically for settlement or erosion.
2. Site and adjacent ground surfaces shall be maintained in a manner that prevents ponding or surface runoff.
3. Maintain a vigorous stand of vegetation on sites that have been seeded.

Record of Well Decommissioning

Name of Landowner________________________Date Of Completion__________

Name of Person Performing Well Decommissioning________________________

Title________________________

Address________________________

Well Inside Diameter, in________

Total Depth of Well, ft________

Length of Casing ft________

Type Of Casing_______________

Length of Casing removed or cut off below ground level, ft______

Static water level measured from ground surface prior to decommissioning, ft________

Fill Material type________________________

quantity________________________

placement depth from________ft to________ft

Sealing Material type________________________

quantity________________________

placement depth from________ft to________ft

I certify that this practice has been completed in accordance with this plan and specifications and the above record of Well Decommissioning.

Contractor/Person Performing

Well Decommissioning_______________(Sign Here)_______________(Date)

As Built Practice Meets NRCS Specification

NRCS Certification________________________Date________________________