



**TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES - DRINKING WATER UNIT**

William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Ave., 11th Floor, Nashville, Tennessee 37243-1102

COMPLETION REPORT FOR INJECTION WELLS

Facility/Well

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
County: _____ UIC Permit Number: _____

Existing Operator/Owner

Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____

<p>Well Activity</p> <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> Class IV <input type="checkbox"/> Class V <input type="checkbox"/> Other	<p>Well Status</p> <input type="checkbox"/> Operating <input type="checkbox"/> Modification/Conversion <input type="checkbox"/> Proposed <p>Location (decimal degrees)</p> <p>Latitude _____ Longitude _____</p> <p>Lease Name: _____</p> <p>Well Number: _____</p>	<p>Type of Permit/Authorization</p> <input type="checkbox"/> By Rule <input type="checkbox"/> Individual <input type="checkbox"/> Area <input type="checkbox"/> Number of Wells
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Submit with this Completion Form the attachments listed in Attachments for Completion Form

Certification

I certify under penalty of law I have personally examined and am familiar with the information submitted in the attached document. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Print Name	Print Official Title	Signature	Date Signed

Attachments to be submitted with the Completion Form for Injection Wells:

- I. Geologic Information
 - 1. Lithology and Stratigraphy
 - A. Provide a geologic description of the rock units penetrated by name, age, depth, thickness, and lithology of each rock unit penetrated.
 - B. Provide a description of the injection unit.
 - 1) Name
 - 2) Depth
 - 3) Thickness

- 4) Formation fluid pressure
- 5) Age of unit
- 6) Porosity (Average)
- 7) Permeability
- 8) Bottom hole temperature
- 9) Lithology
- 10) Bottom hole pressure
- 11) Fracture pressure

C. Provide chemical characteristics of formation fluid (attach chemical analysis)

D. Provide a description of freshwater aquifers

- 1) Depth to base of fresh water (less than 10,000 mg/l TDS)
- 2) Provide a geologic description of aquifer units with name, age, depth, thickness, and average total dissolved solids.

II. Well Design and Construction

1. Provide data on surface, intermediate and long string casing, and tubing. Data must include material, size, weight, grade, and depth set.
2. Provide data on the well cement, such as type/class, additives, amount, and method of emplacement.
3. Provide packer data on the packer (if used) such as type, name and model, setting depth, and type of annular fluid used.
4. Provide data on centralizers to include number, type and depth.
5. Provide data on bottom hole completion.
6. Provide data on well stimulation used.

III. Description of Surface Equipment

1. Provide data and a sketch of holding tanks, flow lines, filters, and injection pump.

IV. Monitoring Systems

1. Provide data on recording and nonrecording injection pressure gauges, casing-tubing annulus pressure gauges, injection rate meters, temperature meters, and other meters or gauges.
2. Provide data on constructed monitor wells such as location, depth, casing, diameter, method of cementing, etc.

V. Logging and Testing Results

1. Provide a descriptive report interpreting the results of geophysical logs and other test. Include a description and data on deviation checks run during drilling.

VI. Provide an as-built diagrammatic sketch of the injection well(s) showing casing, cement, tubing, packer, etc., with proper setting depths. The sketch should include well head and gauges.

VII. Provide data demonstrating mechanical integrity pursuant to 1200-4-6.

VIII. Report on the compatibility of injected wastes with fluids and minerals in both the injection zone and the confining zone.

IX. Report the status of corrective action on defective wells in the area of review.

X. Include the anticipated maximum pressure and flow rate at which injection will operate.