



UIC Class II Permit Application

The application for a permit to inject shall contain the following complete information:

(1) A one-half mile fixed radius area of review plat which shows the location of the injection well or wells, existing or proposed; the location of all oil and gas wells; the location of all water wells active and abandoned; the location of all other wells, including plugged and abandoned wells; abandoned locations; dry holes; current drilling locations; the names of operators; the surface and mineral owners; and each offset operator;

(2) The formation or formations from which oil, gas, and water wells are producing or have produced;

Oil: _____

Gas: _____

Water: _____

(3) The name, description (stratigraphic and structural), and depth of the receiving formation or formations and the overlying confining zone or formation;

Receiving formation(s): _____

Confining zone/formation(s): _____

- (4) The well type, construction, spud date, total depth, formation tops, record of completion or recompletion, and plugging for all oil, gas, and injection wells within the area of review, **and any additional pertinent information which the secretary determines is necessary to make an informed judgment on the issuance of a permit**, including drill stem tests and well logs for all oil and gas wells identified in the area of review;

Well type (oil, UIC, water, etc.) _____

Construction details:

Hole/drill bit sizes

Surface: _____ Production: _____

Casing sizes and weights

Surface: _____ Production: _____

Tubing size and weight: _____

Cement details:

Surface

Type(s): _____

Additives (list to each individual type): _____

Production

Type(s): _____

Additives (list to each individual type): _____

Tubing

Type(s): _____

Additives (list to each individual type): _____

Please add information for each individual well separately (you may need to add addendum pages). You will also need to include details for wells outside of the ½-mile radius area of review, but within the calculated radius of influence of well. This is especially important for horizontal wells. Failure to submit any of this information will result in the application being considered incomplete, and the 90-day time to permit the well will not be initiated.

(5) Information on abandoned and active water wells, as follows:

(a) Abandoned water wells:

- (i) The legal location;
- (ii) Well name; and
- (iii) Method of abandonment, if available;

(b) Active water wells:

- (i) The legal location;
- (ii) Well name;
- (iii) An analysis of water quality, including information on total dissolved solids content, chlorides, sodium, sulfates, nitrates, and hydrocarbons;

Total Dissolved Solids: _____

Chlorides: _____

Sodium: _____

Sulfates: _____

Nitrates: _____

Hydrocarbons: _____

- (iv) The construction program, including casing size and type, if available;

Construction details:

Hole/drill bit sizes

Surface: _____ Production: _____

Casing sizes and weights

Surface: _____ Production: _____

Tubing size and weight: _____

Cement details:

Surface

Type(s): _____

Additives (list to each individual type): _____

Production

Type(s): _____

Additives (list to each individual type): _____

Tubing

Type(s): _____

Additives (list to each individual type): _____

(v) Depth of well, if available;

(vi) A geologic/driller's log, if available; and

(vii) The water level and pump type, if available;

(6) A description of the injection well's casing and the proposed casing program, and the proposed method for testing the casing for mechanical integrity before use as an injection well;

(7) The geologic name and the depth to and interval of all freshwater resources which may be affected by injection;

Name: _____ Depth: _____ Interval: _____

(8) The names and addresses of the operators of the project;

Name: _____

Address: _____

Name: _____

Address: _____

Name: _____

Address: _____

(9) Schematic drawings of the surface and subsurface construction details of the well with detailed drawings of the gauge connections;

(10) The source and nature of the substance or substances to be injected, its viscosity, its compatibility with the receiving formation, including stability indices, and the estimated average and maximum daily amounts to be injected. If the nature of the injected fluid is produced water, a water quality analysis must be submitted and must include information on total dissolved solids content, chlorides, sodium, sulfates, nitrates, and hydrocarbons;

Viscosity: _____

Compatibility

Stability indices: _____

Laboratory Recommendations: _____

Average Daily Injection Volume: _____

Maximum Daily Injection Rate: _____

Produced-water quality

Total Dissolved Solids: _____

Chlorides: _____

Sodium: _____

Sulfates: _____

Nitrates: _____

Hydrocarbons: _____

(11) The average and maximum estimated injection pressure;

Average: _____

Maximum: _____

(12) A narrative description of any proposed production stimulation program, including a feasibility study, process description, and an explanation of how the data were determined, such as working calculations;

Production stimulation Program

Feasibility Study: _____

Process description: _____

How data was Determined: _____

(13) An analysis of any corrective action on all wells identified on the plat required by subdivision (1) of this section and the basis for the conclusion;

Corrective Action: _____

Basis for the Conclusion: _____

(14) The injection zone characteristics, including porosity, compressibility, and intrinsic permeability;

Porosity: _____

Compressibility: _____

Intrinsic Permeability: _____

(15) The expected project life

Years: _____

(16) The surface owner's name, address, and telephone number.

Name: _____

Address: _____

Telephone number: () _____

As indicated in Section 4, the Secretary reserves the right to request additional pertinent information needed to make a recommendation on the approvability of the application. The secretary shall deny any permit application which is incomplete.

In addition, the applicant will need to submit a notarized Certification of Applicant (Form 13), that can be obtained at <http://denr.sd.gov/documents/form13.pdf>. or by contacting the South Dakota Department of Environment and Natural Resources

All permits to inject are issued pursuant to the provisions of chapter 74:10:11.01.

Name of person legally responsible for Class II operation (owner/operator),

Address: _____

Telephone: _____

Local representative or contact person if different from above:

Name: _____

Address: _____

Telephone: _____

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

Signature

Date

Printed Name of Person Signing

Title

Subscribed and sworn before me this _____ day of _____, 20____.

Notary Public

My commission expires: _____

(SEAL)