

004 APPLICATION FOR APPROVAL OF ENHANCED RECOVERY INJECTION AND DISPOSAL WELLS

004.01 Each application for the approval of a new enhanced recovery injection well or disposal well shall be filed and verified by a duly authorized representative of the operator. The original and six (6) copies of the application and one (1) complete set of attachments shall be furnished containing all the information required by these rules. More than one (1) well may be included on an application, provided, that such wells are associated with a single project or unit operation. An application for the approval of injection wells which are a part of a proposed enhanced recovery project or unit may be consolidated with the application for the approval of the enhanced recovery project or unit.

004.02 The application for the initial approval of an enhanced recovery injection or disposal well or wells shall be accompanied by:

004.02A A plat map showing all wells, including dry, abandoned or drilling wells shall be properly located and designated on said plat. In the case of an operation conducted subject to a unit agreement, the area affected shall be the area subject to such agreement, or that area within one-half (1/2) mile of each injection well, whichever is the greater distance.

004.02B The names and addresses of each person owning a fee, leasehold, mineral or royalty interest within one-half (1/2) mile of each injection well or within the area required to be shown on the plat, whichever is the greater.

004.02C A full description of the particular operation for which approval is sought.

004.02D The names and addresses of the operator or operators of the project.

004.02E If the wells have been drilled, a copy of each completion report and any available electric or radioactivity logs.

004.02F A schematic diagram of each well showing:

004.02F1 The total depth or plug-back of the well.

004.02F2 The depth of the injection or disposal interval.

004.02F3 The geological name of the injection or disposal zone.

004.02F4 A geologic description of the injection or disposal zone including the location and extent of any known faults or fracture systems.

TITLE 267 – NEBRASKA OIL AND GAS CONSERVATION COMMISSION

CHAPTER 4 – UNDERGROUND INJECTION

- 004.02F5 The depths of the tops and bottoms of the casing and cement to be used in the well.
- 004.02F6 The size and specifications of the casing and tubing, and the setting depth and type of packer, if used.
- 004.02G Information showing that injection into the proposed zone will not initiate vertical fractures into or through the overlying strata which could enable the injected fluids or formation fluids to enter any fresh water strata.
- 004.02H Information that no unplugged wells exist which will allow the migration of the injected fluids or formation fluids to enter any fresh water strata.
- 004.02I Information regarding the fracture pressures of the injection zone and the overlying strata, including the source of such information.
- 004.02J Proposed operating data:

 - 004.02J1 Maximum designed or proposed daily injection rates and injection pressures.
 - 004.02J2 The source of any fluids to be injected.
 - 004.02J3 Analysis of a representative sample of the fluids to be injected.
 - 004.02J4 Analysis of fresh water from two or more freshwater wells within one mile of the proposed injection well showing the location of the wells and the dates the samples were collected, or a statement why samples were not submitted.
 - 004.02J5 Geological name of the lowest freshwater zone, if known, and the depth to the base of the freshwater zone.
 - 004.02J6 The vertical distance separating top of the injection zone and the base of the lowest freshwater strata.
- 004.03 For previously authorized units or projects, the names and addresses of each person owning a fee, leasehold, mineral or royalty interest within one-half (1/2) mile of each new injection well shall be shown on the plat.
- 004.04 The Commission shall require, upon receipt of a Class II commercial underground injection well permit application, that notice be provided to the county, city or village and natural resources district within which the proposed well would be located and shall provide such county, city or village and natural resources district with copies of all permit application materials.

TITLE 267 – NEBRASKA OIL AND GAS CONSERVATION COMMISSION

CHAPTER 4 – UNDERGROUND INJECTION

004.05 The Commission shall review all proposed wells to ensure they are in compliance with the bonding requirements stated in Chapter 3-004 and may periodically re-evaluate the financial requirements to determine if adequate.