

# **Kansas Administrative Regulations**

## **Kansas Corporation Commission**

### **Article 3.—Production and Conservation of Oil and Gas**

#### **82-3-1000. Definitions: underground porosity gas storage facilities.**

The following terms, as used in these regulations for underground porosity gas storage facilities, shall have the following meanings: (a) "Cushion gas" means the volume of gas required as permanent storage inventory to maintain adequate reservoir pressure for meeting minimum gas deliverability demands throughout the withdrawal season.

(b) "FERC" means the federal energy regulatory commission.

(c) "Fracture gradient" means the pressure gradient, measured in pounds per square inch per feet, that, if applied to a subsurface formation, will cause that formation to physically fracture.

(d) "Fresh water" means water containing not more than 1,000 milligrams of total dissolved solids per liter.

(e) "Gas storage injection or withdrawal well" means a well used to inject and withdraw natural gas stored in an underground porous and permeable reservoir.

(f) "Gas storage observation well" means a well either completed or recompleted for the purpose of observing subsurface phenomena, including the presence of hydrocarbon gas, pressure fluctuations, fluid levels and flow, and temperature.

(g) "Gas storage porosity reservoir" means a porous stratum of the earth that is separated from any other similar porous stratum by an impermeable stratum and is capable of being used for underground storage of natural gas.

(h) "Gas storage well" means any gas storage injection or withdrawal well, gas storage withdrawal well, or gas storage observation well completed or recompleted as part of an underground porosity gas storage facility.

(i) "Gas storage withdrawal well" means a well used only for the withdrawal of natural gas stored in an underground porous and permeable reservoir.

(j) "Leak detector" means a device capable of detecting by chemical or physical means the presence of hydrocarbon vapor or the escape of vapor through a small opening.

(k) "Licensed engineer" means an engineer that is licensed or authorized to practice engineering in Kansas by the Kansas state board of technical professions.

(l) "Licensed geologist" means a geologist that is licensed or authorized to practice geology in Kansas by the Kansas state board of technical professions.

(m) "Packer" means an expanding mechanical device used in a well to seal off certain sections of the well when cementing, testing, or isolating the well from the completed interval.

(n) "Small, well-defined outside area" means an area, including a playground, recreation area, outdoor theater, and other place of public assembly, that is occupied by 20 or more persons on at least five days a week for 10 weeks in any 12-month period. The days and weeks shall not be required to be consecutive.

(o) "Underground porosity gas storage" means the storage of hydrocarbon gas in underground porous and permeable geologic strata that have been converted to hydrocarbon gas storage.

(p) "Underground porosity gas storage facility" and "storage facility" mean the leased acreage associated with the storage field. This term shall include the wellbore tubular goods, the wellhead, and any related equipment, including the last positive shutoff valve attached to the flowline.

(q) "Working gas" means the portion of the gas storage volume that can be removed from a gas storage porosity reservoir for deliveries and still maintain pressure sufficient to meet design deliverability.

This regulation shall be effective on and after October 29, 2002.

(Authorized by and implementing K.S.A. 55-152, K.S.A. 2001 Supp. 55-1,115 and 74-623; effective, T-82-6-27-02, July 1, 2002; effective Oct. 29, 2002.)

\*\*\*\*\* Authenticated Kansas Administrative Regulation \*\*\*\*\*