

Kansas Administrative Regulations

Department of Health and Environment

Article 46.—Underground Injection Control Regulations

28-46-29. Design and construction requirements.

40 CFR 146.12 and 40 CFR 146.65, governing class I wells, and 40 CFR 146.32, governing class III wells, as in effect on July 1, 2008, are adopted by reference. In addition, the following requirements shall apply to class III salt solution mining wells:

(a) Each salt solution mining well cavern wall shall meet the following requirements:

(1) Be located at least 50 feet from any other active or abandoned brine-supply wells or other holes or excavations penetrating the salt section, unless the wells, holes, or excavations have been properly plugged; and

(2) be located at least 50 feet from any existing surface structures not owned by the permittee, including any transportation artery.

(b) The cavern wall for each solution mining well shall be located at least 50 feet from the property boundaries of any owners who have not consented to the mining of salt under their property.

(c) Each salt solution mining wellhead shall be located at least 150 feet from the property boundaries of any owners who have not consented to the mining of salt under their property.

(d) For each new salt solution mining well, new steel surface casing shall be set through all freshwater formations and encased in cement from bottom to top by circulating cement through the bottom of the casing to the surface.

(e) For each new salt solution mining well, production casing shall be set into the upper part of the salt formation and encased in cement as specified in this regulation. The casing shall extend at least 55 feet into the salt formation. Centralizers shall be used on the outside of the production casing and shall not be spaced more than 100 feet apart. Before setting and cementing the production casing, the mudcake on the bore wall shall be removed by the use of scratchers or a washing method approved by

the director. The cement for that part of the casing opposite the salt formation shall be prepared with salt-saturated cement.

(f) A variance for each well not meeting the requirements of this regulation may be granted by the secretary if all the following conditions are met:

(1) The variance is protective of public health, safety, and the environment.

(2) The permittee agrees to perform any additional monitoring or well improvements, or any combination of these, if required by the secretary.

(3) The permittee agrees to conduct a geomechanical study in support of the variance request. The geomechanical study shall be conducted by a contractor experienced in conducting and interpreting geomechanical studies.

(g) Each permittee seeking a variance shall submit a written request to the secretary for review and consideration for approval. Each request shall include justification for the variance, the geomechanical study and interpretation, and any additional supporting information.

(h) A cement bond log shall be conducted on the production casing after the cement mixture has cured for at least 72 hours and shall be submitted to the department within 45 days after completion of the test.

(Authorized by and implementing K.S.A. 2009 Supp. 55-1,117 and 65-171d; effective May 1, 1982; amended, T-83-49, Dec. 22, 1982; amended May 1, 1983; amended, T-86-47, Dec. 19, 1985; amended May 1, 1986; amended March 21, 1994; amended Aug. 6, 2010.)

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