

Kansas Administrative Regulations

Kansas Corporation Commission

Article 3.—Production and Conservation of Oil and Gas

82-3-702. Construction of cathodic protection boreholes, measurements, logging, reports, penalty.

This regulation shall apply in Kansas except for groundwater management districts #2 and #5. Each owner, operator, or person responsible for the construction of a cathodic protection borehole located in groundwater management district #2 or #5 shall be subject to K.A.R. 82-3-706 through K.A.R. 82-3-709. (a) Each owner, operator, or person responsible for the construction of a cathodic protection borehole shall use a driller who is licensed by the commission under K.S.A. 55-155, and amendments thereto, or a water well contractor who is licensed by the Kansas department of health and environment under K.S.A. 82a-1201 et seq., and amendments thereto.

(b) The operator shall construct each cathodic protection borehole in the following manner.

(1) The total depths of each borehole and the bottom of the cathodic surface casing shall not exceed the depths permitted on the approved intention to drill.

(2) The diameter of the borehole for cathodic surface casing installation shall be at least six inches larger than the nominal outside diameter (OD) of the cathodic surface casing.

(3) In aquifer completions, cathodic surface casing shall extend from the surface to 20 feet below the top of the aquifer.

(4) In multiple aquifer completions, the cathodic surface casing shall extend from the land surface through the aquifers and 20 feet into shale or other impermeable bedrock.

(5) Exceptions to the surface casing depth requirements may be granted by the director of the conservation division upon written request. Each operator requesting an exception shall be required to demonstrate that the exception provides adequate protection of fresh and usable waters.

(6) All cathodic surface casing shall be nonmetallic and shall have a standard dimension ratio (SDR) of 26 or less. The SDR shall be calculated by dividing the cathodic surface casing's outside diameter (OD) by its minimum wall thickness (MWT): $SDR = OD / MWT$.

(7) The operator shall install centralizers along the entire length of the cathodic surface casing at intervals of not greater than 40 feet, starting at the bottom of the casing.

(8) The operator shall grout the annular space either by using a tremie pipe or by following the instructions of individual grout manufacturers. The grout shall be allowed to set undisturbed for at least 24 hours, or for the length of time recommended by individual grout manufacturer's instructions. Exceptions to this requirement may be granted by the director of the conservation division upon written request. Each operator requesting an exception shall be required to demonstrate that the exception provides equivalent or greater protection to fresh and usable waters. Bentonite clay grout shall not be used where a mineralized aquifer or aquifers transect the borehole.

(9) The operator shall not make any openings through the cathodic surface casing, except for the installation of a pitless casing adapter.

(10) The operator shall not use products designed for drilling purposes that contain organic polymers as either drilling mud or grout.

(11) The operator shall install anodes and anode conductors in the borehole beginning at least five feet below the bottom of the cathodic surface casing.

(c) The operator shall measure each borehole to determine the cathodic surface casing depth and the total depth of the borehole. The operator shall record each measurement.

(d) The operator shall log each cathodic protection borehole as follows:

(1) The operator shall collect and record drill cuttings at intervals not greater than five feet or more frequently, if needed to produce an accurate lithologic or driller's log of the entire borehole.

(2) The operator shall record any electrical surveys, logs, or other geophysical readings of the borehole and make them a part of the permanent record.

(e) The operator shall submit a final completion report within 60 days of the start date to the production department of the conservation division. The report shall include all electrical or geophysical readings or logs, as required by the commission.

(f)(1) Each failure to construct a cathodic protection borehole in accordance with these regulations shall be punishable by a penalty of up to \$2,500.

(2) Each failure to submit the final report in accordance with subsection (e) of this regulation shall be punishable by a penalty of \$100.

(Authorized by K.S.A. 55-152; implementing K.S.A. 55-152 and K.S.A. 2003 Supp. 55-164; effective Oct. 25, 1996; amended, T-82-1-21-04, Jan. 21, 2004; amended May 14, 2004.)

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