

3745-34-34 **Mechanical integrity.**

- (A) An injection well has mechanical integrity if:
 - (1) There is no leak in the casing, tubing or packer during operation; and
 - (2) There is no fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore.
- (B) One of the following methods must be used to evaluate the absence of leaks under paragraph (A)(1) of this rule:
 - (1) Monitoring of the tubing-casing annulus pressure with sufficient frequency to be representative, as determined by the director, while maintaining an annulus pressure different from atmospheric pressure measured at the surface; or
 - (2) Pressure test with liquid or gas.
- (C) The results of a temperature or noise log shall be used to determine the absence of significant fluid movement under paragraph (A)(2) of this rule.
- (D) The director may allow the use of a test to demonstrate mechanical integrity other than those listed in paragraphs (B) and (C) of this rule with the written approval of the director. The director shall approve the request if it will reliably demonstrate the mechanical integrity of wells for which its use is proposed. Any alternate method approved by the director shall be published pursuant to the requirements of Chapter 3745-47 of the Administrative Code.
- (E) In conducting and evaluating the tests enumerated in this rule or others to be allowed by the director, the owner or operator and the director shall apply methods and standards generally accepted in the industry. When the owner or operator reports the results of mechanical integrity tests to the director, he shall include a description of the test(s) and the method(s) used. In making his/her evaluation, the director shall review monitoring and other test data submitted since the previous evaluation.
- (F) The director or his authorized representative shall be present during the test for demonstration of mechanical integrity, unless the director or his authorized representative waives this requirement before the test occurs.
- (G) The director may require additional or alternative tests if the results presented by the owner or operator under paragraph (e) of this rule are not satisfactory to the director to demonstrate that there is no movement of fluid into or

between USDWs resulting from the injection activity.

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