

Sec. 19-13-B51f. Construction

(a) **Materials.** Pipe used for casing a well other than a dug well shall be made of steel or other material approved by the commissioner of health. They shall be free from flaws or defects and shall have watertight connections.

(b) **Dug well.** The casing or side walls of a dug well shall be constructed of watertight concrete at least four inches thick to a depth of at least ten feet below the ground surface. Below the depth of the watertight casing, loosely laid stone, concrete block, brick or other materials approved by the commissioner of health may be used. The annular space between the face of the excavation and the watertight section of casing shall be filled with clean clay or other impervious material.

(c) **Gravel well.** The casing of a gravel well shall be surrounded with concrete grout to a depth of at least ten feet below the ground surface. The annular space between the casings of a gravel well with artificially placed gravel shall be protected at the top by a watertight covering to prevent any foreign matter entering the well through the gravel.

(d) **Drilled well.** The construction of a drilled well shall provide for shutting out all water except that from the water bearing formations which are intended to supply water to the well. The casing shall extend at least ten feet below ground surface. Any annular space surrounding the casing pipe needed for drilling shall be filled with concrete grout to a depth of at least ten feet below the ground surface. Below ten feet, any clean fill material can be used. Where the unconsolidated material above consolidated rock is less than twenty feet deep and the casing ends in the consolidated rock, the casing shall be effectively sealed in the rock.

(e) **Upper terminal of casing.** The casing of every well shall project not less than six inches above the established grade at the well or above the pump house floor. The well contractor shall ascertain the established grade before completion of the well. Where a pitless adapter is used, it shall be designed to, and made of materials that will, keep soil and water from entering the well during the life of the casing. A below-ground connection shall not be submerged in water at the time of installation. Where a pump is not installed immediately following the construction of the well, the well shall be tightly sealed and suitably vented.

(Effective January 12, 1971)