

LIPAN-KICKAPOO WATER CONSERVATION DISTRICT

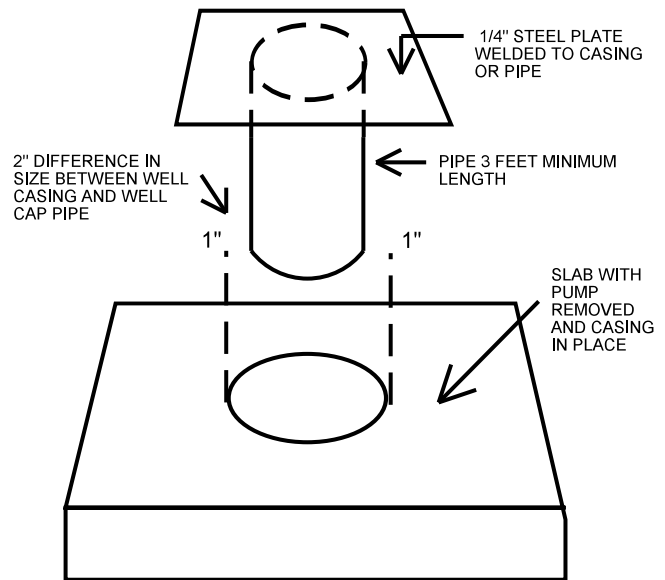
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INSTRUCTIONS FOR CLOSING A WELL SAFELY AND SECURELY

TO PRESERVE A NON-DETERIORATED WELL FOR POSSIBLE FUTURE USE:

Texas Water Code Chapter 36, §36.118 and Rule 10.1 of the Lipan-Kickapoo Water Conservation District require that any well open or uncovered at the land surface shall be closed or capped with a covering capable of sustaining weight of no less than 400 pounds. The well must be kept covered safely and securely at all times, except when it is in actual use by the owner or operator.

Such a cap shall either be permanently attached to the casing or have a permanently attached weighted pipe extending no less than 3 feet into the well casing. The weighted pipe should be no more than 2 inches smaller in diameter than the well casing. The cap attached to the weighted pipe should be of sufficient size that no opening will occur when the cap is shifted from side to side. This cap should be constructed in such a way that it cannot be easily removed by hand and capable of preventing access to the well by children, animals, or pollutants. For plastic well casing, in lieu of using a weighted pipe cap, a plastic cap may be glued to the top of the well casing.



TO DESTROY A WELL:

The Texas Department of Licensing and Regulation Administrative Rules, Chapter 76 for Water Well Drillers and Water Well Pump Installers and Rule 10.2 of the Lipan-Kickapoo Water Conservation District set standards for plugging a well:

a) If a well is abandoned or deteriorating, all removable casing shall be removed from the well and the entire well filled with cement from the bottom up to the land surface.

b) In lieu of the procedure in subsection (a) of this section, the well shall be pressure filled with bentonite grout or if the well has one hundred (100) feet or less of standing water the entire well may be filled with a solid column of 3/8 inch or larger granular sodium bentonite hydrated at frequent intervals followed by a cement plug extending from the land surface to a depth of not less than two (2) feet. Large diameter hand dug wells may be plugged by back filling the wells with compacted clay or caliche to land surface and mounded to compensate for settling. Newly bored wells may be plugged by backfilling the wells with the cuttings, compacted clay, or caliche followed by a ten (10) foot cement plug extending from either 3 feet below the surface in cultivated land or from the land surface in other areas.

c) Undesirable water or constituents, or the fresh water zone(s) shall be isolated with cement plugs and the remainder of the wellbore filled with bentonite grout or cement to the land surface.