

Kazusa System, Historical Deep Well Boring Method.

Shinya SUZUKI and Yoshikazu SUZUKI. Akita University, Akita City, Japan; Department of Environmental Protection, City of Kimitsu, Kimitsu City, Japan.

It is from the Edo period (fy1600 - fy1867) that the use of confined groundwater starts in Japan. This phenomenon depended on the facts that demand of the drinking water rapidly increased in accordance with the population concentration on the city, and that the pollution and infectious disease due to surface water raged through.

A Kazusa system is one of the deep well drilling technology evaluated by a historical and cultural inheritance in Japan. There are two inventions in the Kazusa system. One is apparatus with percussion attached on the tip of drilling rod made of a piece of bamboo that can be added. The other is to use the clay water to protect the well wall. This digging system was used for not only groundwater wells but also oil wells.

This technology was originated from 19th C in Kimitsu city Chiba prefecture and we were born here. Recently, the succession of the digging technology has promoted and a commending stone monument has constructed.