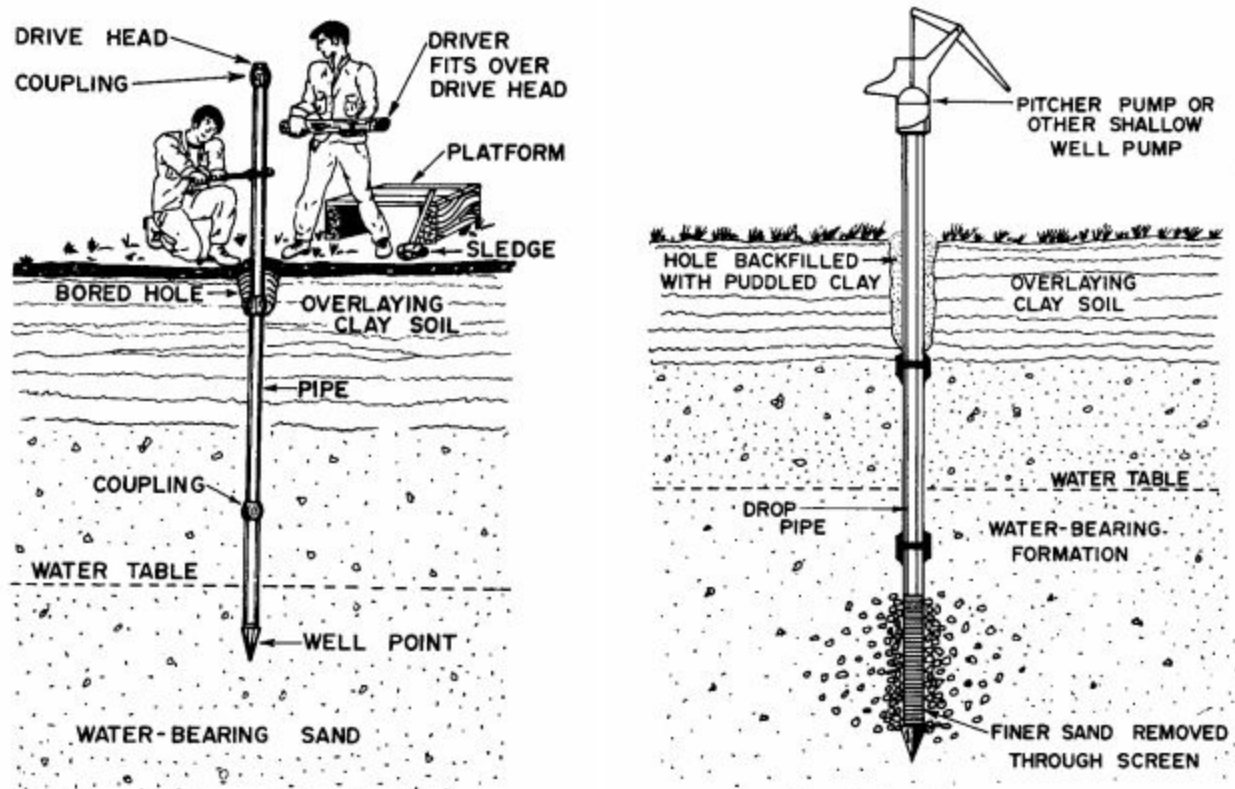


Figures are from the University of Minnesota Agricultural Extension Service, Agricultural Engineering No. 16, R.E. Machmeir, 1972, *Driving a Well Point*.



The figures above are very similar to the installations in Kalenga Village, with the exception of a surface soil or clay. The Barotse Plain is underlain by the vast sandsheet of the Pleistocene Kalahari Desert. The sandpoint is coupled to a section of pipe (we are using sandpoints with an 80 gauze screen (0.007 in) and galvanized steel pipe) and driven into the sand until another section is added and driven. We set the top of each sandpoint screen to a depth of 20 ft which is the maximum lift of a suction pump at the 3,400 elevation of the Barotse Plain. In our experience in Kalenga Village 20 ft below the surface would be about 8 ft lower than the water table during a severe (two year) drought as seen in November 2019.