

Water4 FOUNDATION

Who we are:

- Innovative technology
- Partner Led Projects
- Empowering Nationals
- Multiple Well Strategy

Tool Set



Hand Augers

-Soil, Dirt, Sand,
and Clay

-3 Sizes:







Bailer

**-Slurry, Wet Sand,
Collapsing**



Sliding Hammer



Stubber Set



Chisel Set



Settling Tank / Conditioning Tool





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Tripod Structure





Tool Transportation



Sustainability

Simple Tool Design

- Easily transferrable
- Repair locally
- Manufacture nationally

What we've learned

- Target Areas
- Start-up Costs
- Working Models

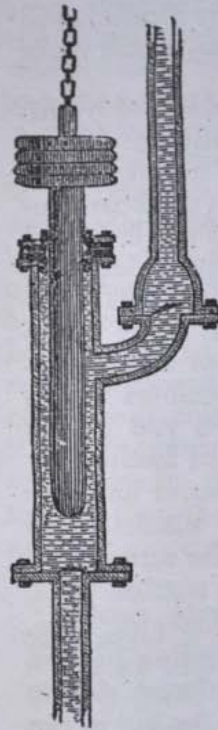
Questions?





The Pump

erected in the county of Surrey. It is described by Vitruvius as furnishing water in the same way. In Commandine's translation of the same kind of plunger is figured in a plate and at p. 71, a fire-engine, with two wheels of the same kind. These pistons were formerly used in plunger-pumps. Their construction appears in the following figure, which represents the manner in which they were employed in the water-raising apparatus of the last century. The piston is made of iron and filled with lead, and is kept smooth." A small part of the piston was connected with the end of a vibrating rod, as in Newcomen's engine, which was raised by the engine, and then let it down: to render the piston more steady, a number of rollers were named from the centres, were slipped under the piston, as in the figure, and they were found to be useful to guide and force the water up. The piston was supported by leathers through which it passed, similar to those now used in the small cistern was used as a pump, that the water was prevented from entering through the cupped leathers: a small pipe downwards was sometimes fitted to the cock, and the water was started, that it might not escape; and as soon as the water rose, the cock was shut. It is immaterial at what part of



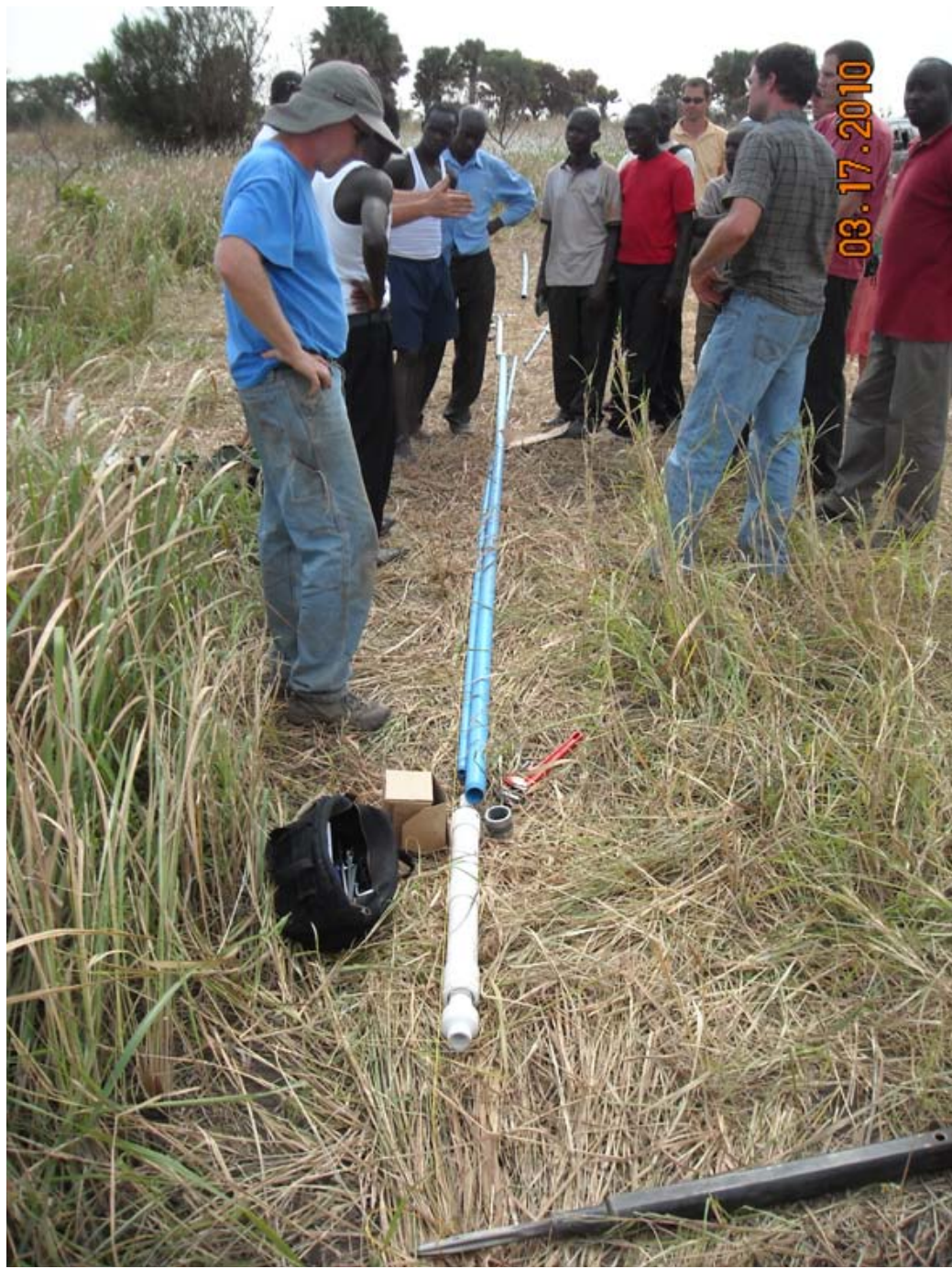
No. 123. Plunger Pump.

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