

SUMMARY AND CONCLUSIONS

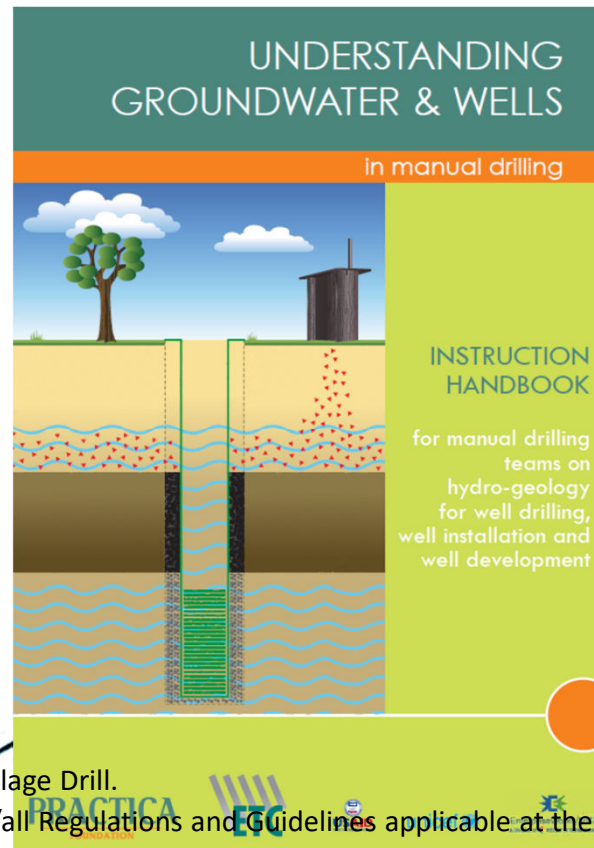
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*This Presentation is strictly intended for non-prescriptive use with a Village Drill.
The Village Drill user is ultimately responsible for compliance with any/all Regulations and Guidelines applicable at the drill site.

Primary Course Information Sources

- Many documents that have been prepared by the Village Drill Project
- Instruction Handbook by the Practica team (2010)



UNDERSTANDING GROUNDWATER & WELLS in manual drilling

Instruction handbook for manual drilling teams
on hydro-geology for well drilling,
well installation and well development

Published by the PRACTICA Foundation

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First edition – April 2008

Second edition – June 2010

PRACTICA Foundation develops and disseminates low-cost appropriate technology in water and renewable energy in developing countries. We focus on technology that responds to local cultural contexts, can be locally produced and maintained, and supports existing markets.

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Why Use the Village Drill ?

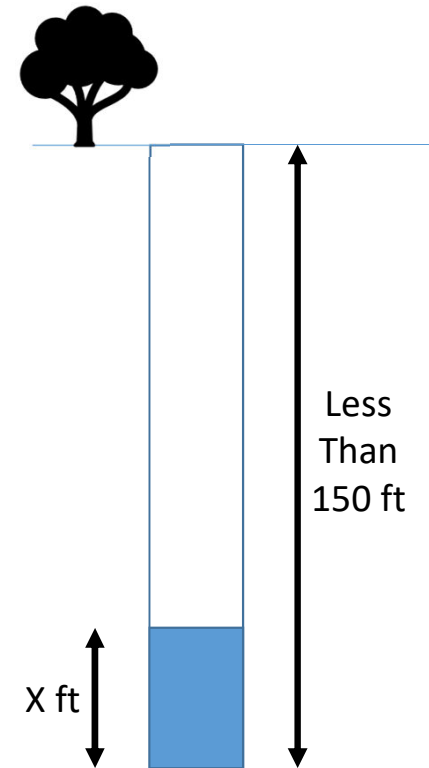
- Less expensive than conventional, large-machine wells (factor of 5-20)
- Can be used in places that are not accessible by large drills
- Simple mechanism / readily repaired
- Local employment

Limitations of the Village Drill ?

- Depth (maximum depth of 200 feet)
- Best suited to penetrate unconsolidated soils (sand, silt, clay) or soft/medium rock
- May have difficulty in very hard rock

Therefore, the ideal setting for the Village Drill is:

- Good thickness of uncontaminated aquifer (water-bearing unit) is present not more than 150 feet from ground surface, even during dry season
- Material to the bottom of the water-bearing zone is unconsolidated soils or soft/medium bedrock



Learn together, be safe, keep onlookers at a safe distance



Train others





Train local people



Involve the community



If appropriate you can let dignitaries enjoy a turn

AND....Be Safe



THE VILLAGE DRILL

