

Chapter 5 Water wells

Methods for well construction

5.1 Test Holes & Well logs

to determine depths to GW. quality of water
physical character, thickness of the
aquifer

≅ ϕ 20 cm

————→ record or log —————→ geologic formations
samples of cutting
(depth, color, character, size of material, structure
of the strata)

5.2 Methods for construction **shallow wells**

< 15 m in depth digging, boring, driving or jetting

————→ Table 5.2.1

- Dug wells ———→ Fig 5.2.2 casing (curb)
problem: pollution

- Bored wells ———→ augers
————→ sticky clay

- Driven wells ———→ series of connected lengths of pipe
driven ..repeated in parts in to the
ground to below the water table Fig
5.2.5

- Jetted wells ———→ cutting action of a down ward –
directed stream of water Fig 5.2.8