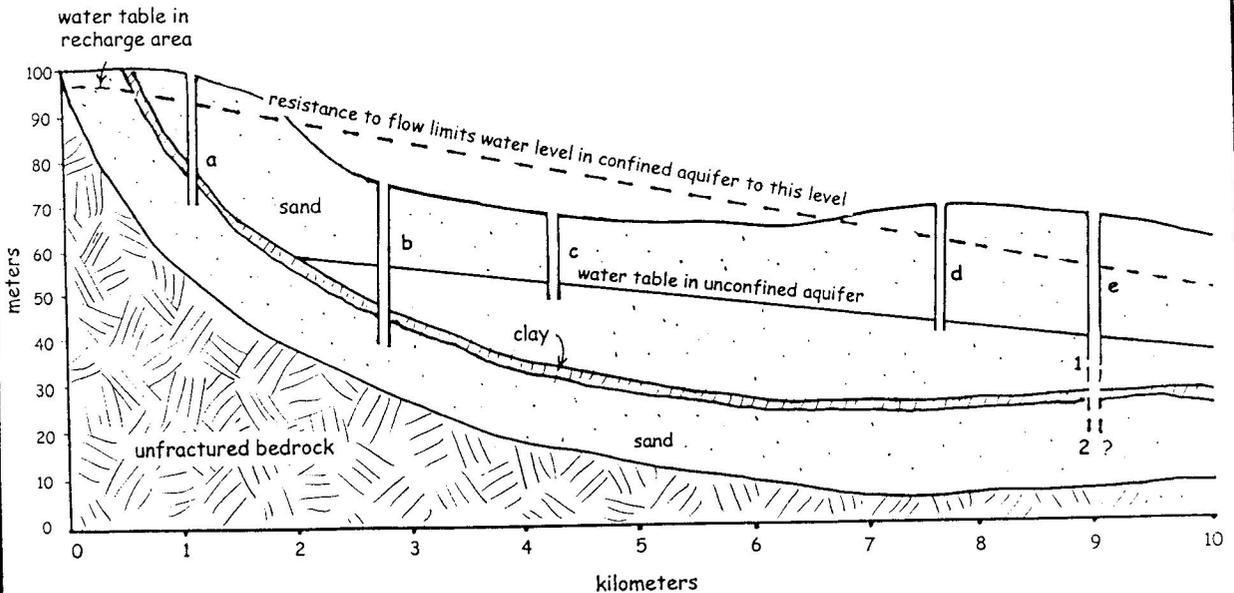


Chapter 28: Occurrence and Movement of Water

Aquifer Hydraulics



1. Well A and Well D are drilled to the same depth below ground surface. They each cost the same amount of money to drill and complete. In terms of pumping costs, which of the two would make the better water-supply well?

2. At the bottom of which well, A or D, is the water pressure higher? (assume no pumping)

3. Should Well E be drilled to depth 1 or depth 2? Defend your answer.

4. What is the hydraulic gradient in the confined aquifer? In the unconfined aquifer?

5. How much water flows through the confined aquifer per unit area (no pumping, and the hydraulic conductivity is 100 m/d)?

Leslie