

A large red dump truck is shown from a low angle, dumping its load of light-colored aggregate onto a dirt surface. The truck's red body is prominent, and a white cab is visible on the left. A blue overlay box is positioned in the upper left area of the image.

Water Policy Interim Committee
January 15, 2008
Hamilton, Montana

Update

Montana Bureau of Mines and Geology
John Metesh

- ✓ Develop work plan
- case study
- report(s)

Case Study

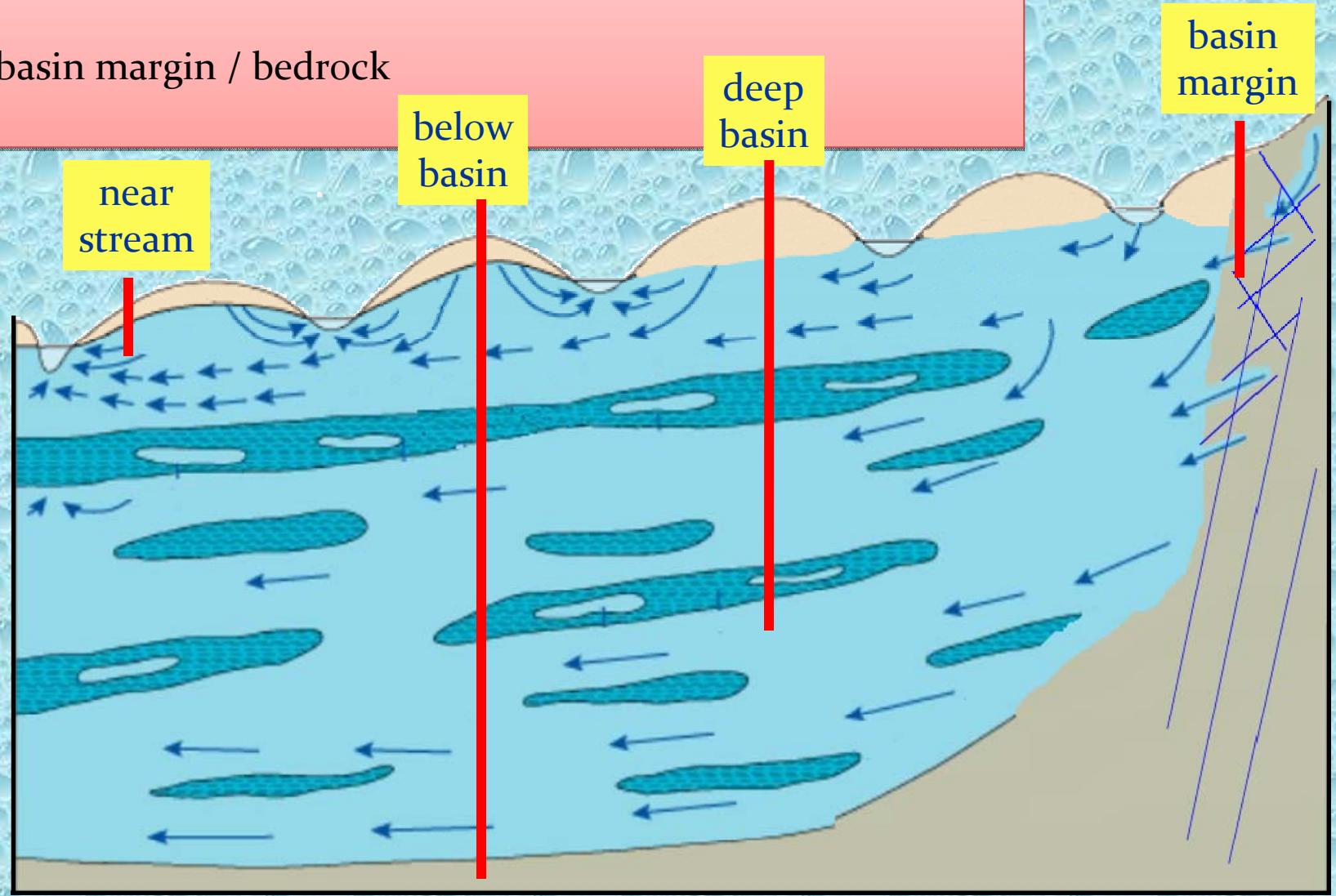
- ✓ review permits
- ✓ select field site(s)
- ✓ compile existing data
- ✓ develop conceptual model(s)
- ✓ design field experiment(s)
- collect / compile data
 - water levels
 - aquifer tests
 - chemistry

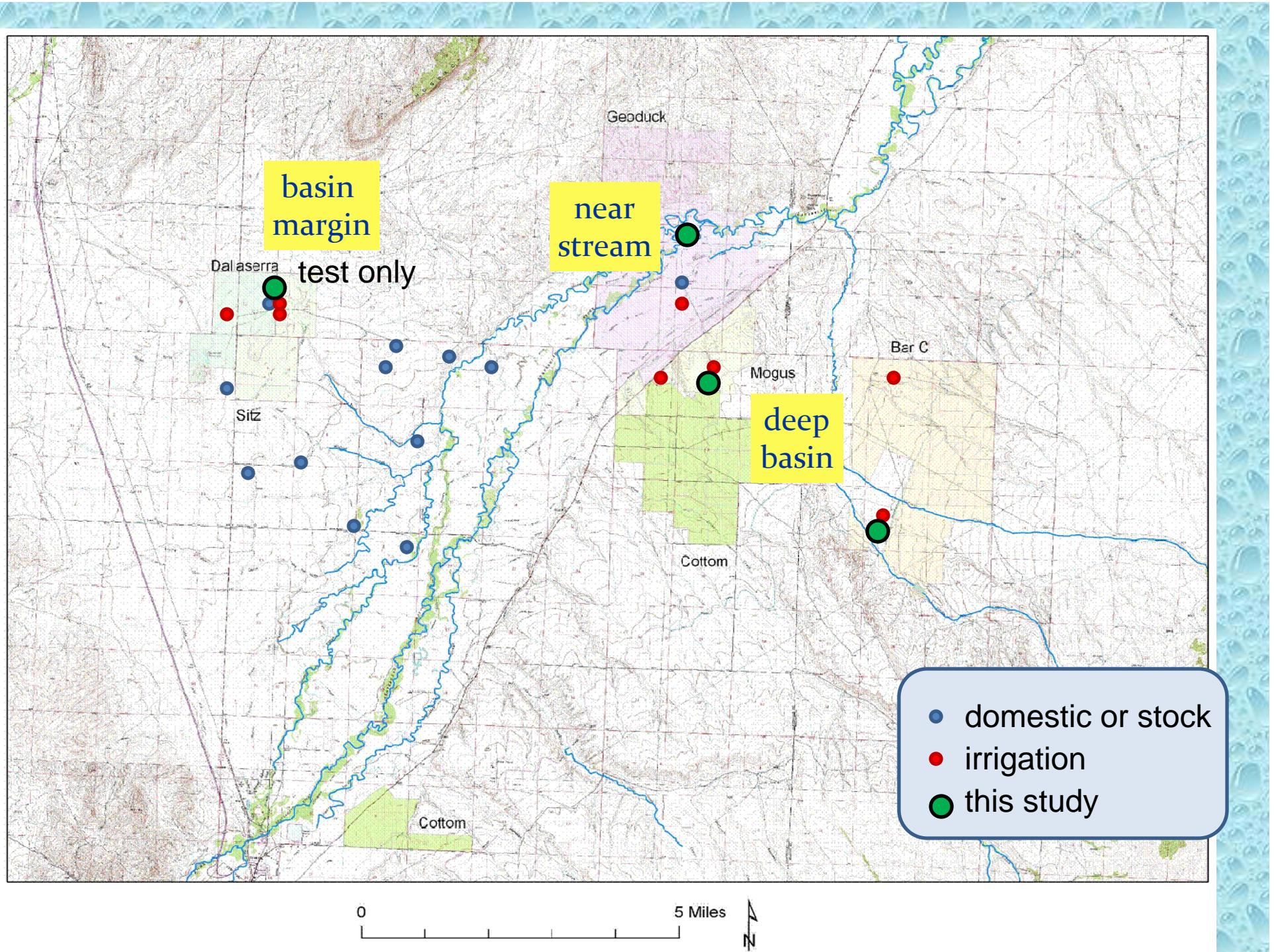
near stream shallow alluvial aquifer;

deep basin, confined or semi confined aquifer;

intrabasin or interbasin aquifers below the basin-fill aquifer

basin margin / bedrock



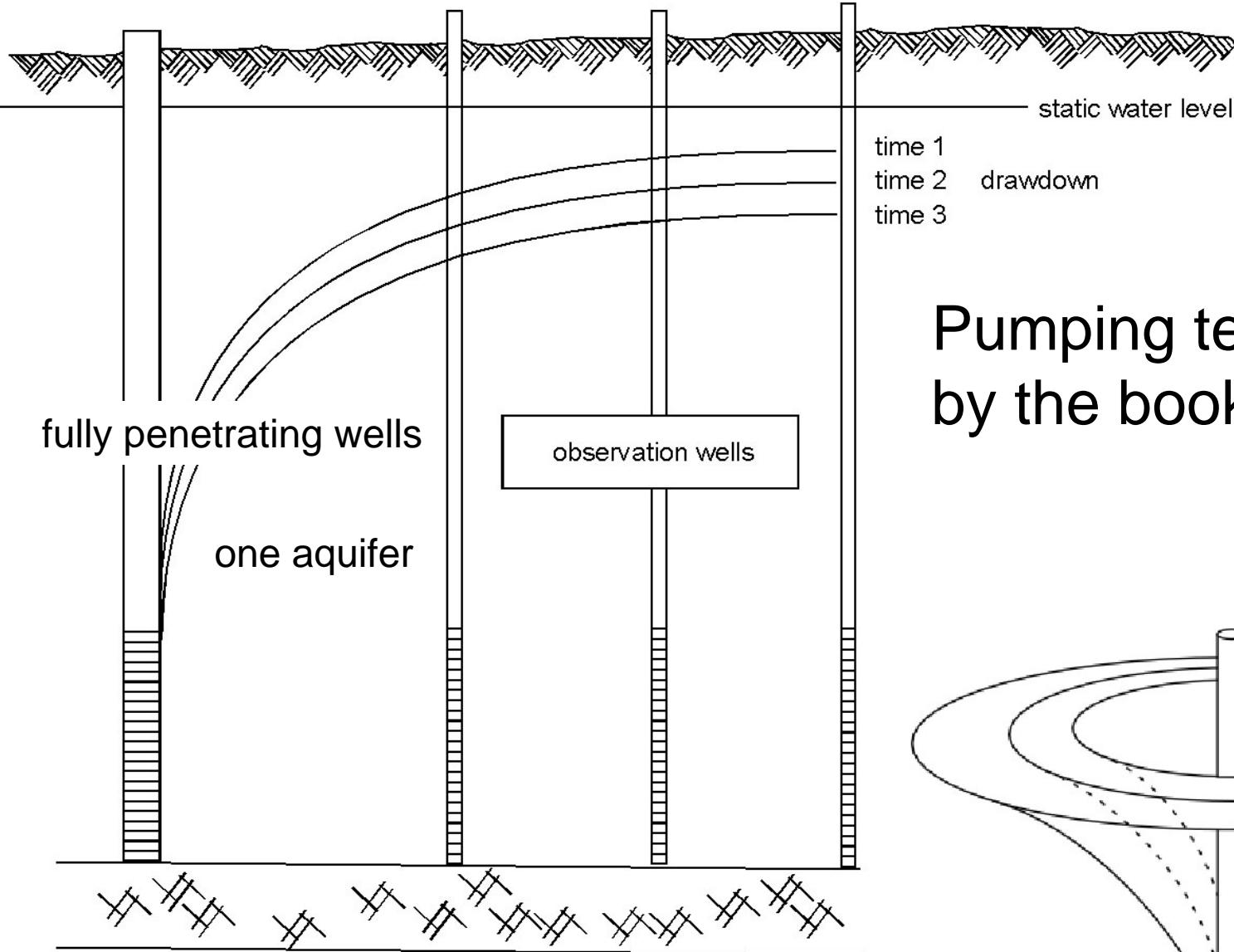


Pumping Test Objectives:

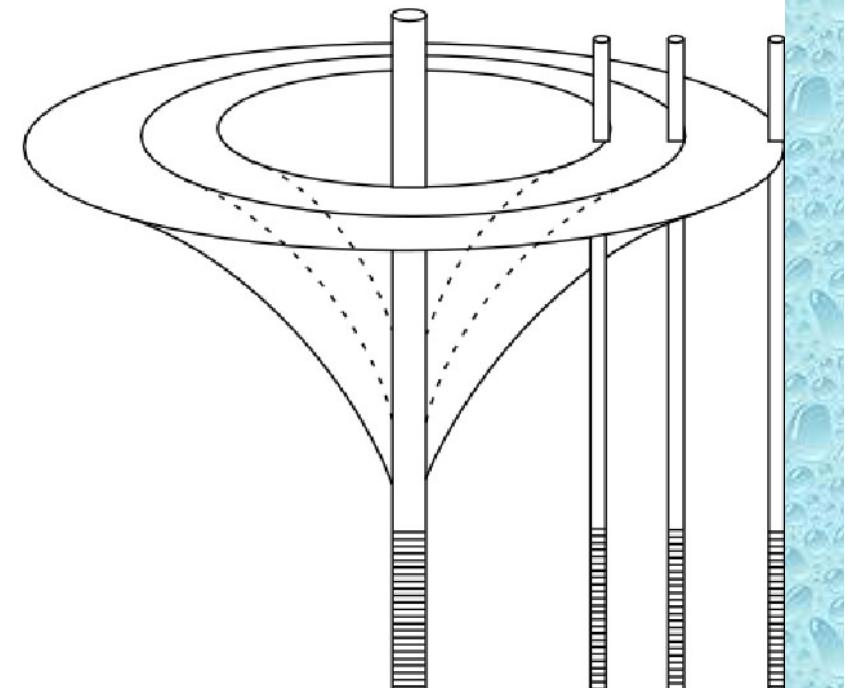
“measure” aquifer properties at
near stream
deep basin
basin margin

observe/evaluate response in multiple aquifers

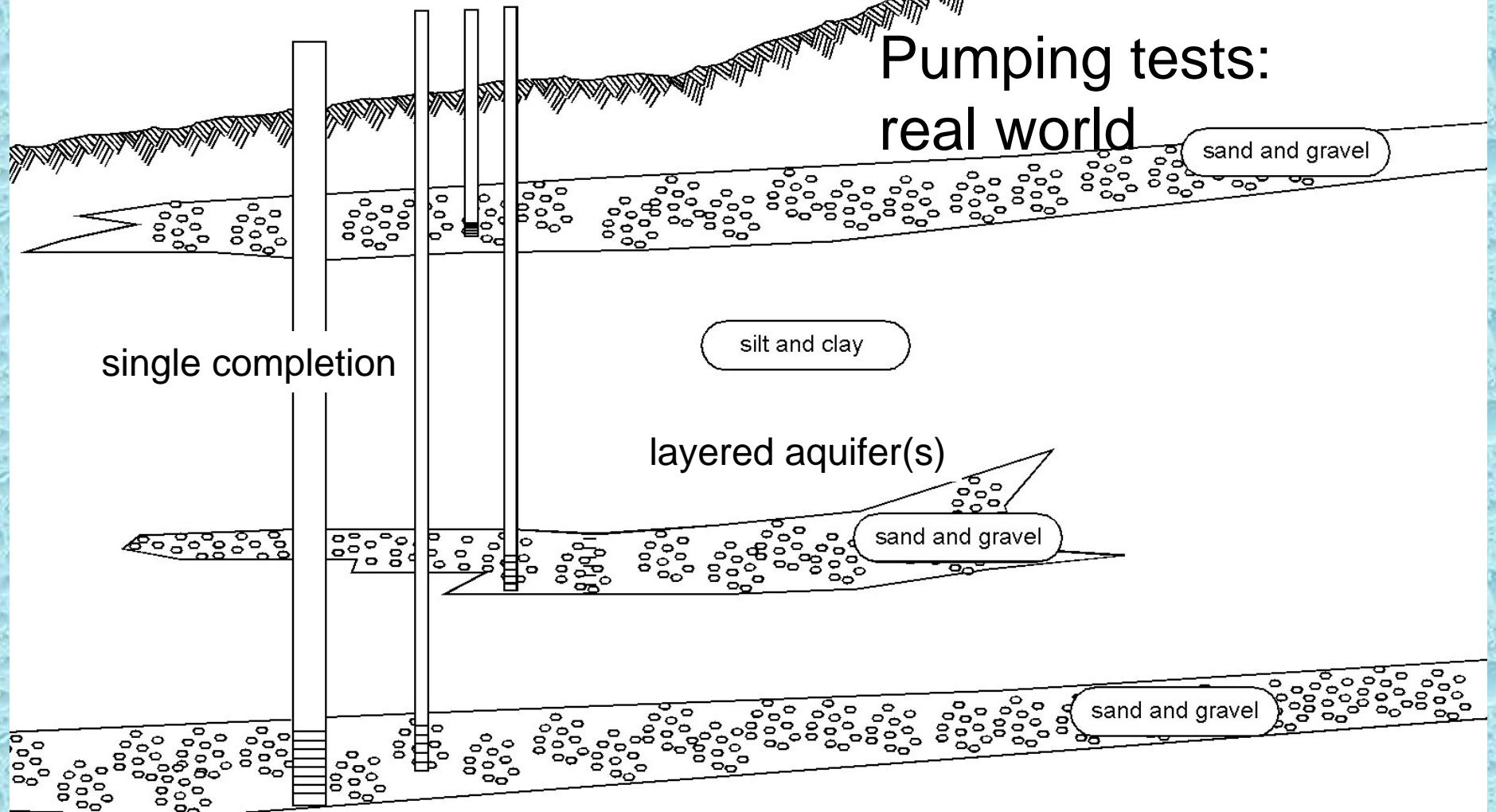
observe/evaluate response in multi-completion wells



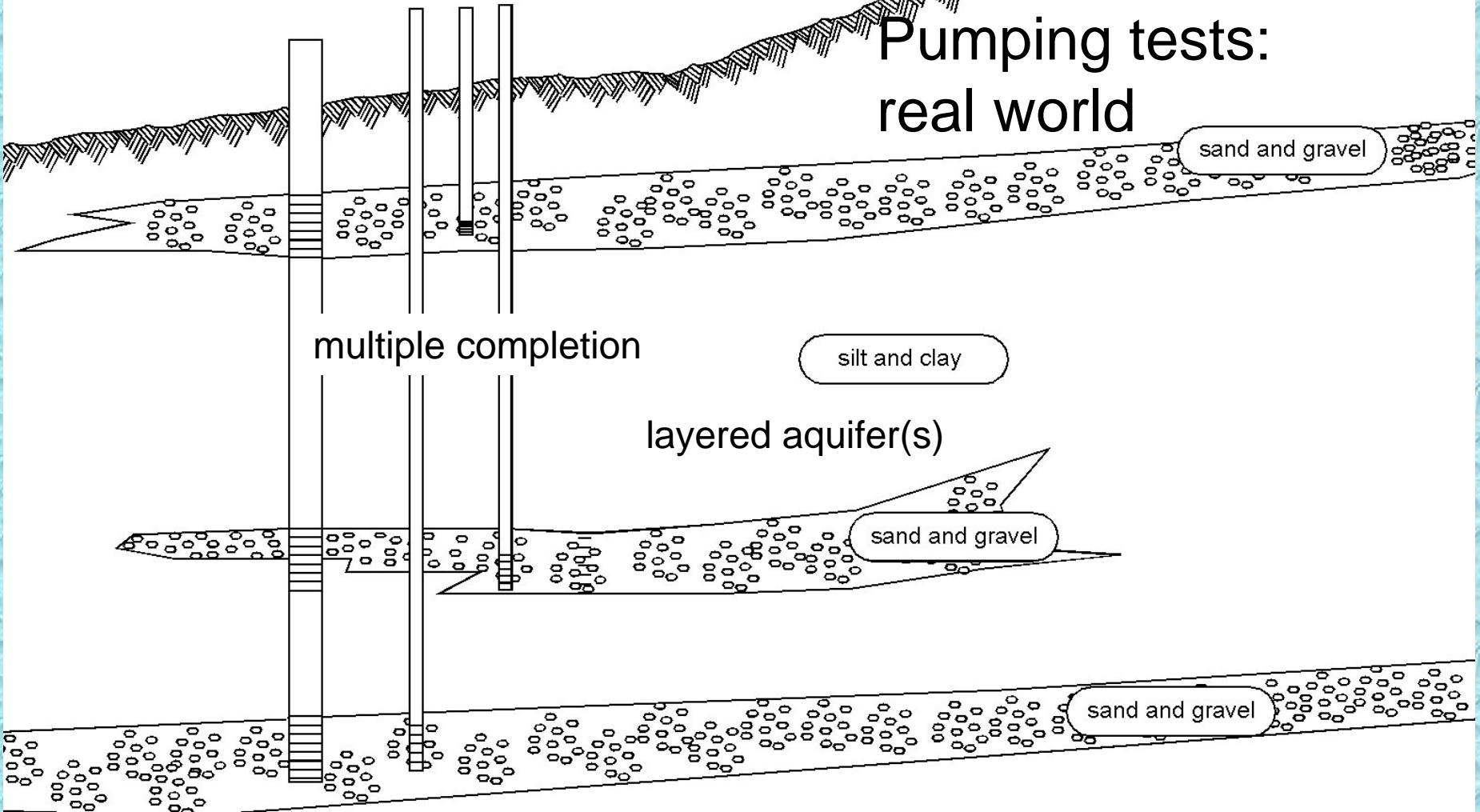
Pumping tests: by the book



Pumping tests: real world



Pumping tests: real world



- ✓ Develop work plan
- case study
- report(s)

Case Study

- ✓ review permits
- ✓ select field site(s)
 - ✓ compile existing data
 - ✓ develop conceptual model(s)
 - ✓ design field experiment(s)
 - collect / compile data
 - water levels
 - aquifer tests
 - chemistry
- revise (?) conceptual/mathematical model
- report of case studies
 - (Beaverhead, West Gallatin, Gallatin)
- report to WPIC committee (including case studies)

