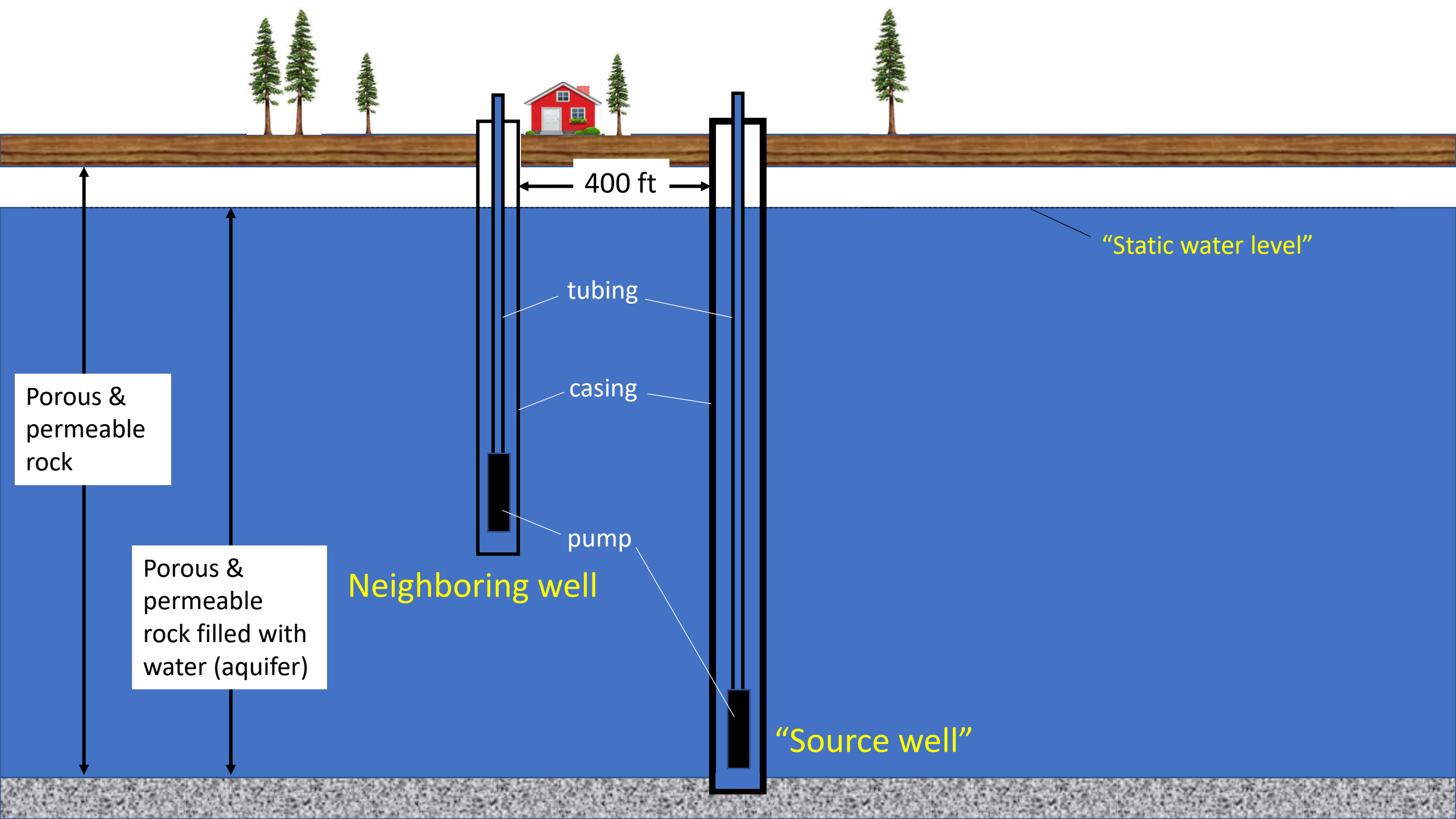


AN ORDINANCE TO REGULATE THE SALE AND TRANSPORT OF GROUNDWATER FROM PRIVATE WELLS

Section 1: Definitions

Section 2: Water Selling Requirements



Porous & permeable rock

Porous & permeable rock filled with water (aquifer)

400 ft

tubing

casing

pump

"Static water level"

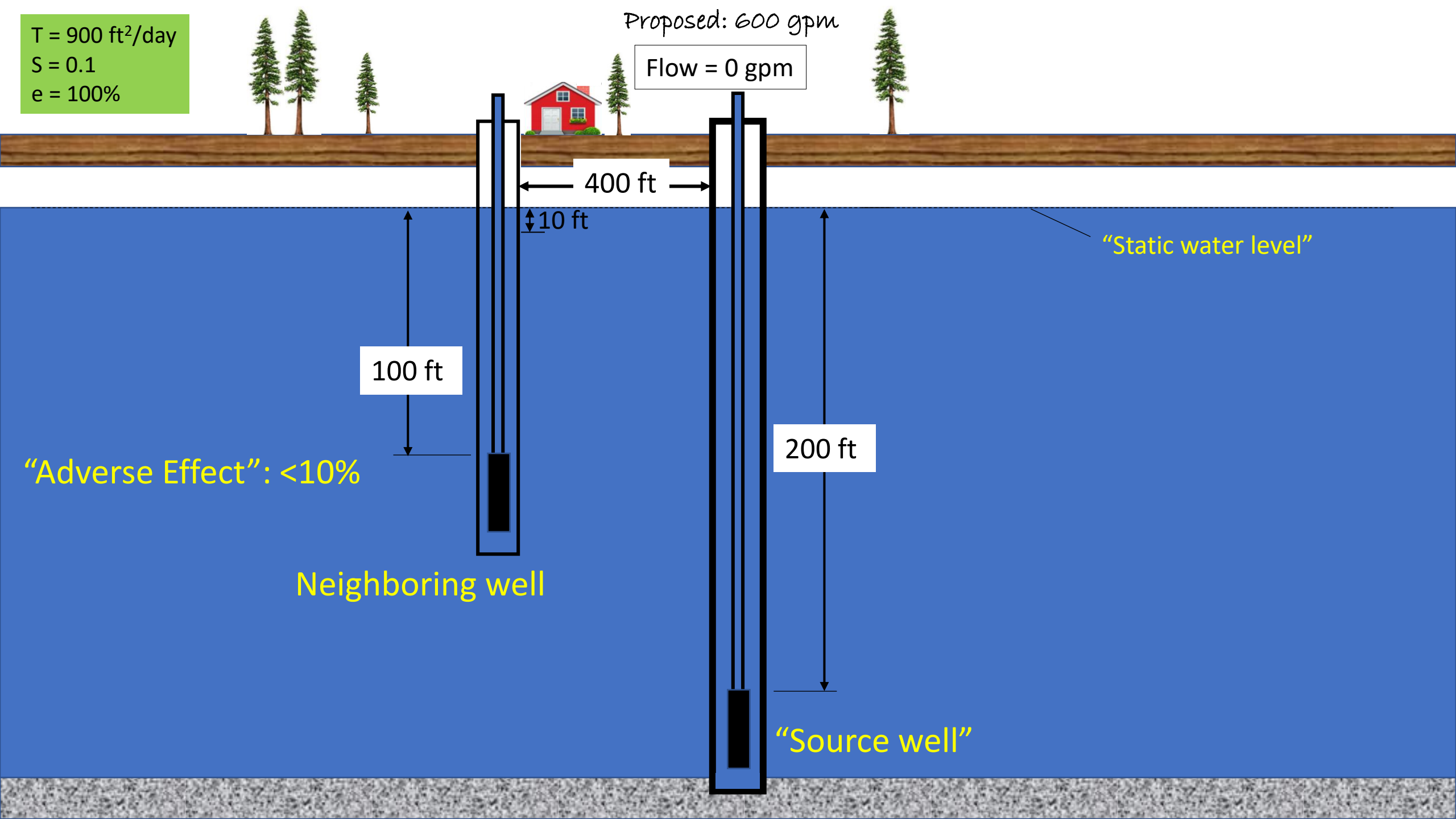
Neighboring well

"Source well"

T = 900 ft²/day
S = 0.1
e = 100%

Proposed: 600 gpm

Flow = 0 gpm



400 ft

10 ft

"Static water level"

100 ft

200 ft

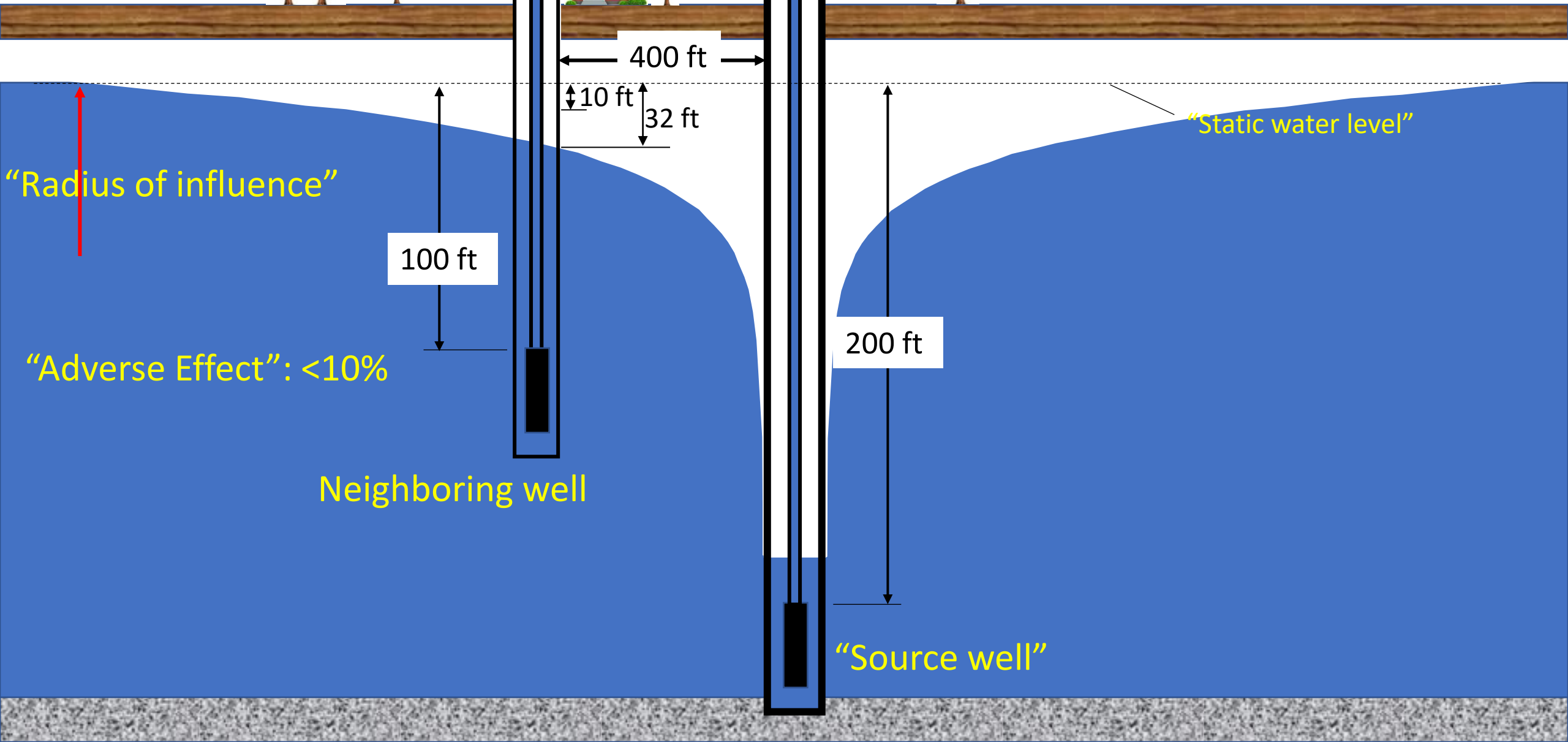
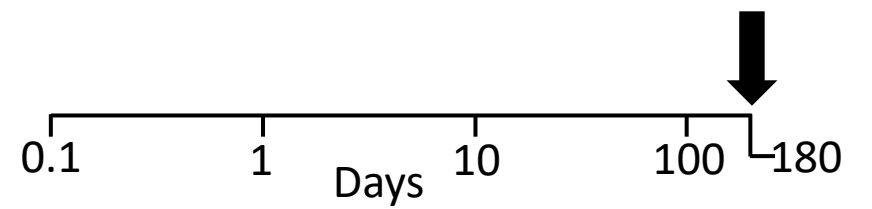
"Adverse Effect": <10%

Neighboring well

"Source well"

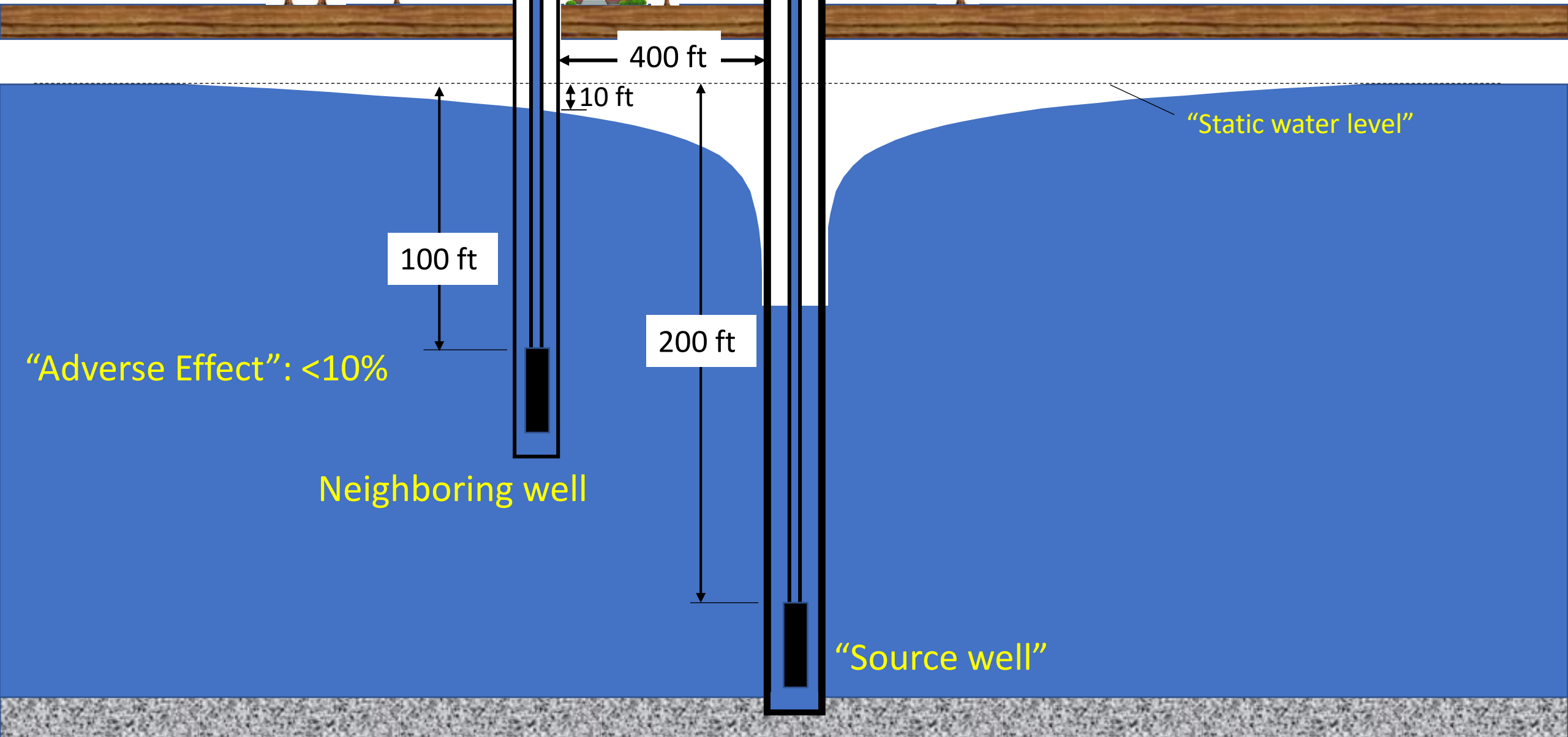
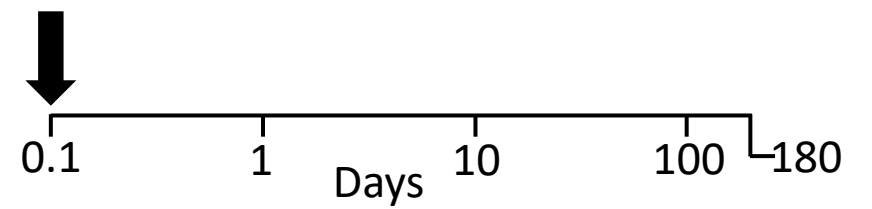
T = 900 ft²/day
S = 0.1
e = 100%

Flow = 600 gpm



T = 900 ft²/day
S = 0.1
e = 100%

Flow = 190 gpm



Summary

- County calculates maximum flow rate that will avoid adverse impacts:
 - >10% drawdown in neighboring wells
 - >10% drop in static water level if no neighboring wells
- The calculation uses proven hydrologic techniques along with aquifer and well properties
- Periodic static water level measurements allow adjustments to maximum monthly volume

Summary

- Enforcement:
 - Review of monthly reports
 - Inspect meter required on the source well