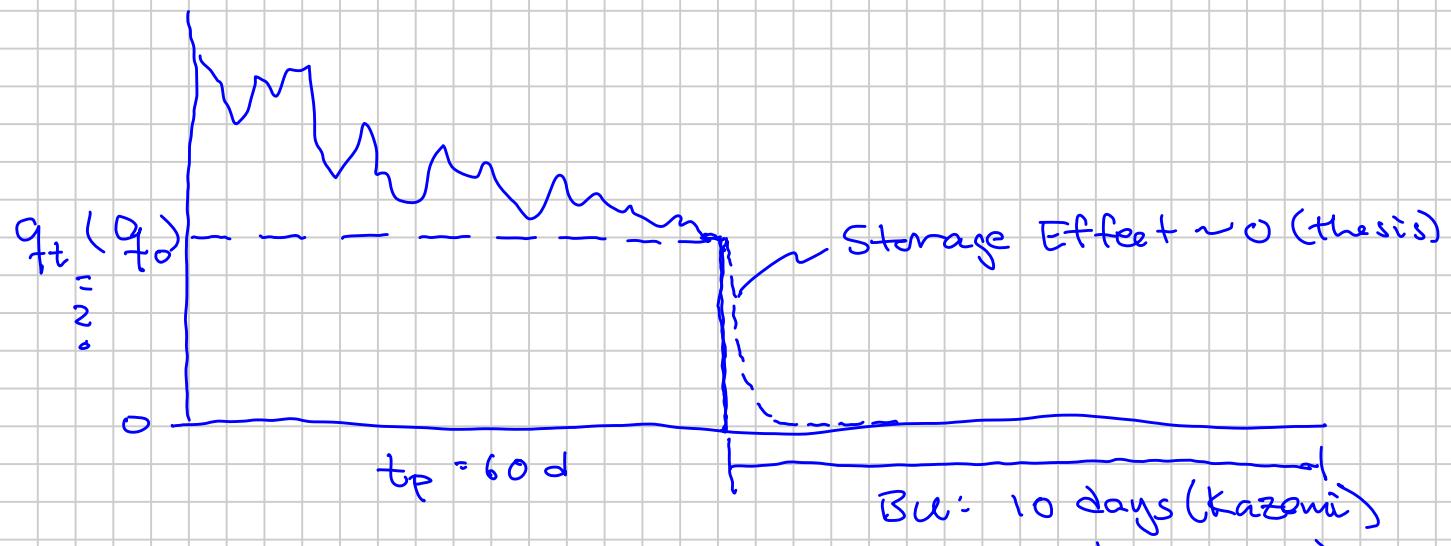


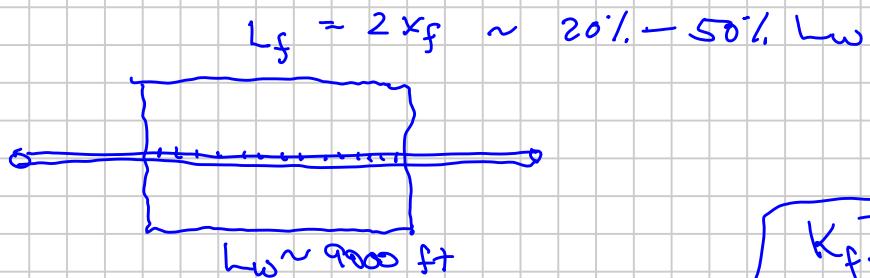
BAKKEN BUILD-UP TEST (Kazemi - Kurtoglu)

Book Ch. PhD thesis



$\bar{k}_{\text{eff}} = \bar{k}_{\text{WT}} = \bar{k}_{\text{Bu}}$ reflects $k_f \neq k_m$, SRV vs FN
Lm ...

$$\times 5^2 \quad \sim 0.02 \text{ md} (20\% L_w) \quad k_m \text{ "kmf"} \\ 0.001 \text{ md} (10\% L_w) \quad 10-100 \text{ s nd}$$



Book:

$$\boxed{\bar{k}_{\text{eff}} = k_f \cdot \phi_f + k_m}$$

\uparrow \uparrow
 k_f k_m

$$\bar{k}_{\text{Bu}} = f (L_f = ? \% L_w)$$

$$\propto \frac{1}{(20\% L_w)^2}$$

Finite
Conductivity
Fracture

Dual
Porosity
Approk.

$$k_f = ?$$

$$0.02 = C \cdot \frac{1}{(0.2)^2}$$

$$0.001 = C \cdot \frac{1}{1^2}$$

$$k_m = 2 \quad k_f = 20000 \quad \phi_f = 0.001$$

$$K_{f,\text{eff}} = 2 + 0.001(20000) = 22 \text{ m}$$

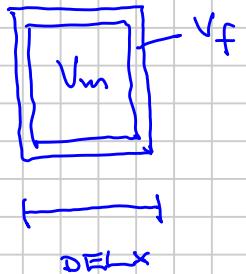
DUAL POROSITY : grid-to-grid flow

$(\phi_f \ k_f)$? in Darcy Eq.

DDP : grid-to-grid flow

$\phi_f \ k_f + k_m$? in Darcy

$$\phi_f = \frac{V_f}{V_f + V_m} ?$$



Single Matrix Block

$$V_f = \text{DELX} \cdot \text{DELY} \cdot \text{DELZ} \cdot \phi_f$$

$$V_m = \overbrace{\quad\quad\quad} \cdot \phi_m$$