

TOTAL GW THAT COULD DISCHARGE AT START OF RECESSION, 
$$V_{tp}$$
:

$$V_{tp} is \ evaluated \int_{0}^{\infty} V_{tp} = \frac{Q_{o}t_{\log}}{2.3}$$

NEED CONSISTENT UNITS

TOTAL GW THAT COULD DISCHARGE AT END OF RECESSION,  $V_{R}$ :

$$V_{R} is \ evaluated \int_{t \oplus end}^{\infty} V_{R} = \frac{Q_{o}t_{\log}}{2.3\left(10^{t_{\log}}\right)}$$

1987. 1988. 1989. 1993 Q at end of recession is

Qo ~ 150 cfs not used in equations

$$v_{lon} = v_{lon} = v_{lon} = v_{lon} = v_{lon}$$

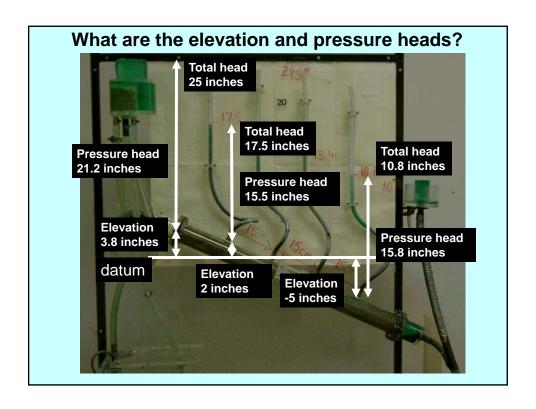
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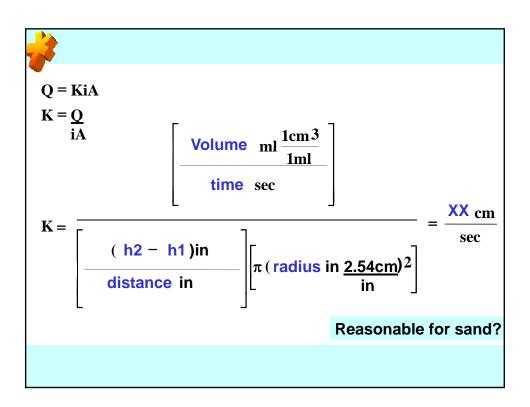
Vy ~ 8.4x10° ft³

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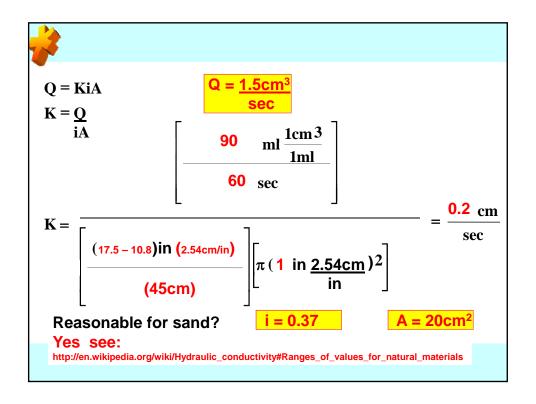
Vdischarged ~ 1.2x10° ft³ ~ 26,000 AF

TURN





$$V_{Darcy} = Ki = K \frac{dh}{dl}$$
 
$$V_{Interstitial} = \frac{Ki}{\phi} = \frac{K}{\phi} \frac{dh}{dl}$$
 
$$\phi = \frac{Ki}{V_{Interstitial}}$$
 Reasonable for sand?

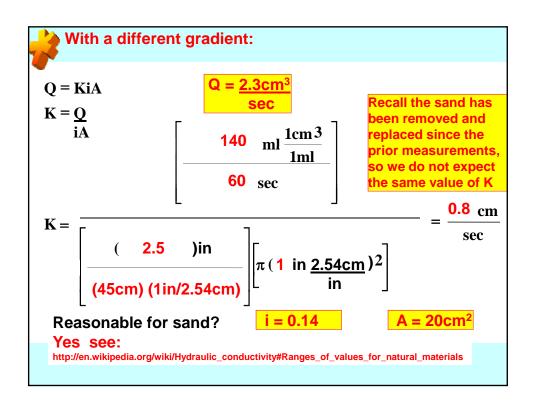




# Calculate Effective Porosity using data from Darcy Apparatus

### What measurements will you need?

Travel time of a tracer through the sand = 30inch in 7 min What equation will you solve?





## Calculate Effective Porosity using data from Darcy Apparatus

#### What measurements will you need?

Travel time of a tracer through the 30 inch tube = 300 sec

### What equation will you solve?

$$\phi = \frac{\frac{Q = 2.3 \text{cm}^3}{\text{sec}}}{\text{Vtracer}} = \frac{\frac{Q = 2.3 \text{cm}^3}{\text{Sec}}}{\frac{A = 20 \text{cm}^2}{\text{O.1 cm/sec}}} = \frac{0.1 \text{ cm/sec}}{0.254 \text{ cm/sec}} = 0.39$$

