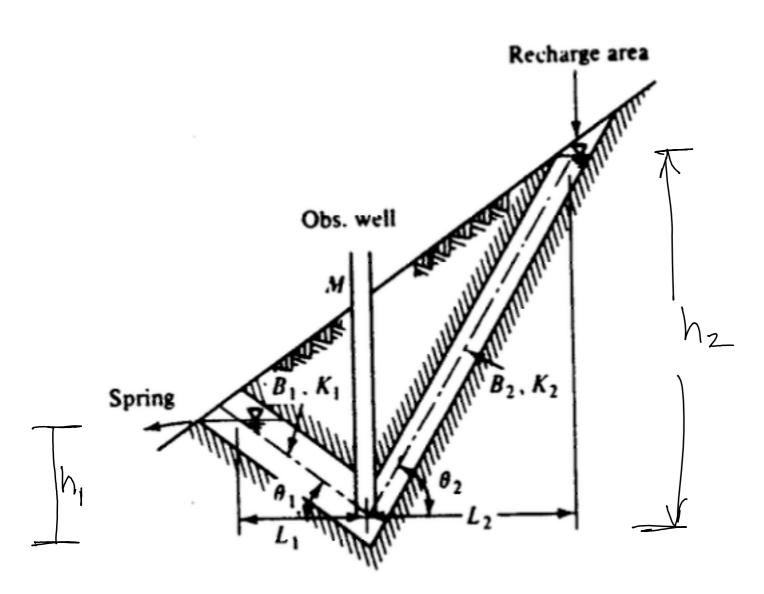
DETERMINE

- 1) PIEZOMETRIC HEAD AT (M)
- 2) SPECIFY CONDITIONS FOR WELL TO BECOME ARTESIAN



TRIGONOMETRY

DARCY'S LAW

$$\frac{h_2 - h_W}{\frac{L_2}{\cos \theta_2}} B_2 K_2 = \frac{h_W - h_1}{\frac{L_1}{\cos \theta_1}} B_1 K_1$$

$$\frac{h_2 - h_W}{L_2} B_2 K_2 = \frac{h_W - h_1}{L_1} B_1 K_1$$

$$\frac{L_2}{\cos \theta_2}$$

$$\frac{L_2}{\cos \theta_2}$$

$$B = \frac{B_1 K_1}{L_1}$$

$$\frac{L_2}{\cos \theta_1}$$

$$(h_2 - h_W) A = (h_W - h_1) B$$

$$h_2 A - h_W A = h_W B - h_1 B$$

$$h_2 A + h_1 B = h_W B + h_W A$$

$$h_W = \frac{h_2 A + h_1 B}{A + B}$$

$$= h_2 \frac{B_2 K_2}{\cos \theta_2} + \frac{h_1}{L_1} \frac{B_1 K_1}{\cos \theta_1}$$

$$\frac{B_2 K_2}{\cos \theta_2} + \frac{B_1 K_1}{L_1}$$

A BIT OF A MESS BUT THE HEAD IN WELL IS GNEN BY FORMULA APPROXIMATE LAND SURF.

$$2m = h_1 + L_1 \left(\frac{h_2 - h_1}{L_1 + L_2}\right)$$

WELL FLOWS WHEN

hw > Zm