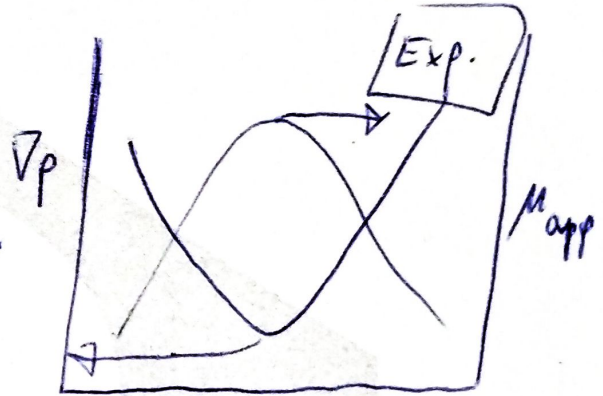


u_z fixed \rightarrow



know: f_g / m_{app} / f_g

$$U_w = - \frac{K k_{rw}(S_w)}{\mu_w} \nabla p \quad \therefore \quad \left| \begin{array}{l} K k_{rw}(S_w) = - \frac{U_w \mu_w}{K \nabla p} \\ \text{solve for } S_w \end{array} \right.$$

$$K \quad U_r = cte / U_g \text{ e } U_w$$

$$\frac{U_o}{U_w} = 1/4 \quad (\text{Tang, 2018})$$

$$U_o = \frac{U_w}{4} = - \frac{K k_{ro}(S_o)}{\mu_o} \nabla p \quad \therefore \quad \left| \begin{array}{l} K k_{ro}(S_o) = - \frac{U_w \mu_o}{4 K \nabla p} \\ \text{solve for } S_o \end{array} \right.$$

$S_o, S_w, \nabla p \rightarrow$ evaluate: F_{dry}
 F_{shadr}
 F_{oil}

Organized by:



Sponsors / Support:



$$U_T = - \frac{K}{\mu_{app}} \nabla p \quad \therefore \mu_{app} = - \frac{K}{U_T} \nabla p$$

$$\nabla p = - \frac{\mu_{app} \cdot U_T}{K}$$

$$U_T = cte = U_w + U_g + U_o$$

$$\text{tendo } f_g \star \text{ e } U_o = \frac{1}{4} U_w$$

$$\text{" } U_g / U_T$$

$$\textcircled{1} \quad U_g = f_g \cdot U_T$$

$$\textcircled{2} \quad U_g + U_w + \underbrace{\frac{1}{4} U_w}_{U_o} = U_T$$

$$U_w = (U_T - U_g) \frac{4}{5}$$

$$\textcircled{3} \quad U_o = \frac{1}{4} U_w$$