

$$m = \frac{1.151 \Delta P}{P_D}$$

$$P_D = \frac{1.151 \Delta P}{m}$$

$$= \frac{7.08 \Delta P}{q u B} K_1$$

$$K_1 = \frac{q u B}{7.08} \frac{P_D}{\Delta P}$$

$$K = \frac{6.328 K_1}{c \mu \phi}$$

$$m = \frac{q u b}{6.15 K_1}$$

$$q = 30 \text{ PD}$$

$$\mu = \text{cP}$$

$$B = \text{RB/STB}$$

$$K = \text{darcys}$$

$$h = \text{feet}$$

$$C = \Delta V/V/\text{psi}$$

$$X_f = \text{Fracture half-length}$$

$$X_e = \text{distance to outer boundary}$$

$$t = \text{days}$$

