Example:

9
$$\triangle P$$
0 0 $M = 105.363 \text{ cp}$
0.0014 0.0476 $L = 115.6 \text{ cm}$

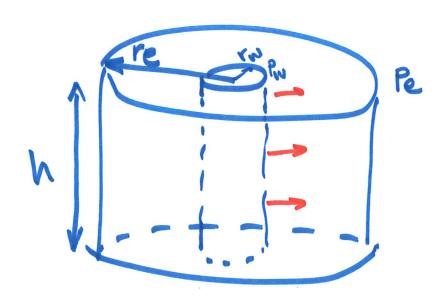
$$D = 4.96 \text{ l cm}$$

$$P = 37.8 \text{ cm}$$
0.3111 10.465

$$K = \frac{9 \text{ M AL}}{\text{A|AP|}} = \frac{9}{\text{AP}} \frac{(115.6)(105.36)}{\text{T}} (4.961)^{2}$$

$$K = 630.1 \frac{9}{\text{AP}} \frac{9}{\text{AP}} \frac{9}{\text{AP}} \frac{1}{\text{AP}} \frac{1}{\text{AP$$

Example:



$$9 = -\frac{k}{M} A \frac{dP}{dr}$$

$$= -\frac{k}{M} 2\pi r h \frac{dP}{dr}$$

$$= -\frac{k}{M} 2\pi r h \frac{dP}{dr}$$

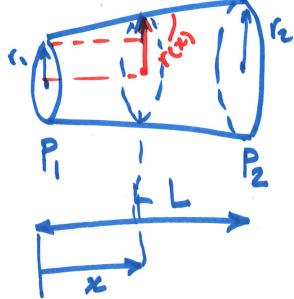
$$= -\frac{k}{M} 2\pi h \int_{PW}^{Pe} dP$$

$$= -\frac{k}{M} 2\pi h \left(Pe - Pw\right)$$

$$= -\frac{k}{M} 2\pi h \left(Pe - Pw\right)$$

$$9_{res} = 9_{st} B$$

Example:



$$9 = -\frac{k}{\mu} A \frac{dP}{dx}$$

$$A(x) = \pi \pi r(x)$$

$$r(x) = r_1 + \frac{r_2 - r_1}{L} z$$

$$A(x) = \pi \left[r(x) \right]^2$$

$$= \pi \left[r_1 + \frac{r_2 - r_1}{L} x \right]^2$$

$$q = -\frac{K}{M} \pi \left[r_1 + \left(\frac{r_2 - r_1}{L} x \right)^2 \right]^2 \frac{dp}{dx}$$

$$q = -\frac{\pi K (r_1 + \alpha x)^2}{M dx} \frac{dp}{dx}$$

$$-\int_{P_2}^{P_2} = \frac{q_M}{\pi K (r_1 + \alpha x)^2} \frac{dx}{(r_1 + \alpha x)^2}$$

$$= -\frac{q_M}{\pi K} \left[\frac{1}{(r_1 + \alpha x)^M} \right]_0^2$$



$$V_s = \frac{9}{A} = -K \frac{dh}{ds}$$



sea level 250 ft sea Z = 0 bed 65 ft ASD Psig O miles t=65ft 5 250 W = 3000 ft from se k = 850 md 9 (bb1/day) = ? $\chi_{\rm W} = 1.038$

M = 19

B = 1 RB/STB

$$q = -0.001127 \frac{kA}{MB} \left[\frac{dP}{ds} - 0.4338 \frac{dZ}{ds} \right]$$
 $A = (65)(3000) = 195000 \text{ ft}^2$
 $K = 850 \text{ md}$
 $M = 1 \text{ CP}$
 $B = 1 \text{ RB/STB}$
 $\Delta S = 10 \text{ miles} = 10(5280) = 52800 \text{ ft}$
 $\Delta Z = 5000 \text{ ft}$
 $\Delta P = 1450 - P_1 = 1450 - 112.36 = 1337.64$
 $P_1 = 0.433 \text{ 8 h} = 0.433 (1.038)(250)$

-> P = 112.36 Psig

B

$$9 = -0.001127 \frac{(850)(195000)}{(1)}$$

$$X = \frac{1337.64}{52800} - 0.433(1.038) \frac{5000-0}{52800}$$

B/day

