

Depletion Calculation (without aquifer drive)

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- Rock compressibility = $C_r = 12 \times 10^{-6} \text{ psia}^{-1}$
 - Water saturation = $S_w = 0.1$
 - Total Compressibility = $C_T = (1 - S_w)C_o + S_w C_w + C_r$
 $= 23 \times 10^{-6} \text{ psia}^{-1}$
 - Pressure depletion = $V_p / V_o / C_T = 1,850 \text{ psi}$