Characteristics of Reservoir Depletion / Build Up \$



Key Parameters: C,, Aquifer, Q, (including leakage, if any)

C_r: 12x10⁻⁶ psia⁻¹ [µsips] Assumptions:

Aguifer: 3.8x reservoir oil volume

35 mbd

Sensitivities: C_r: -200 psia, +100 psia [6, 18 μsips]

Aquifer -800 psia, +100 psia [None, 14x]

~ 350 psia v no aquifer, low cr, high flow rate

Final M56E Pressure: 9,350 flowest sensitivity - 11,350 - 11,600 psia

S.I. Bottomhole (and hence tubing head) pressure will start at 1,500 -3,000 psia below this (but 90% of this difference will disappear in 6 hours)

cases in red were used for SITHP calculations