## Characteristics of Reservoir Depletion / Build Up 🌼



Key Parameters: C<sub>r</sub>, Aquifer, Q<sub>o</sub> (including leakage, if any)

Assumptions:

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12x10<sup>-6</sup> psia<sup>-1</sup> [μsips] Cr:

Aquifer: 3.8x reservoir oil volume

Qo: 35 mbd

Sensitivities:

-200 psia, +100 psia

[ 6, 18 µsips]

Aguifer -800 psia, +100 psia

[ None, 14x]

Q<sub>o</sub>

C<sub>r</sub>:

-350 psia

[ 60 mbd]

Final M56E Pressure:

9,350 (lowest 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