Residual oil saturation to water sweep (sorw)

A value of oil saturation s_{orw} below which oil is not getting swept by water:

(1) $$k_{row}(s_o < s_{orw}) = 0$$

It usually depends on absolute permeability k_a as:

(2) $$s_{orw} = s_{orw,0} \cdot \left(1 + k_a / k_{a,sorw}\right)^{-n_{sorw}}$$

See also

Physics / Fluid Dynamics / Percolation

Petroleum Industry / Upstream / Subsurface E&P Disciplines / Field Study & Modelling

[Petrophysics] [Basic reservoir properties] [Wettability] [Permeability] [Absolute permeability] [Relative permeability] [Oil permeability] [Oil relative permeability] [Oil-water relative permeability (krow)]