

$$k_{ro} = 0.5 - m S_g$$

Sat. Exponent to oil  $> 1$

$$k_{ro} \approx k_{roi} \cdot S_{on}^{m_o}$$

$$k_{ro} @ S_{wi} @ S_o = 1 - S_{wi}$$

$$S_{on} = \frac{S_o - S_{org}}{1 - S_{wi} - S_{org}}$$

$$\text{Initially } S_o = 1 - S_{wi} \Rightarrow S_{on} = 1$$

$$S_o \rightarrow S_{org} \Rightarrow S_{on} = 0$$