



## ② Vaporization-Dominated

- Light oil ( $>35^\circ \text{API}$ ) / Condensate ( $>45-50^\circ$ )

C<sub>2-15</sub>(20)  
Light  
Heavies

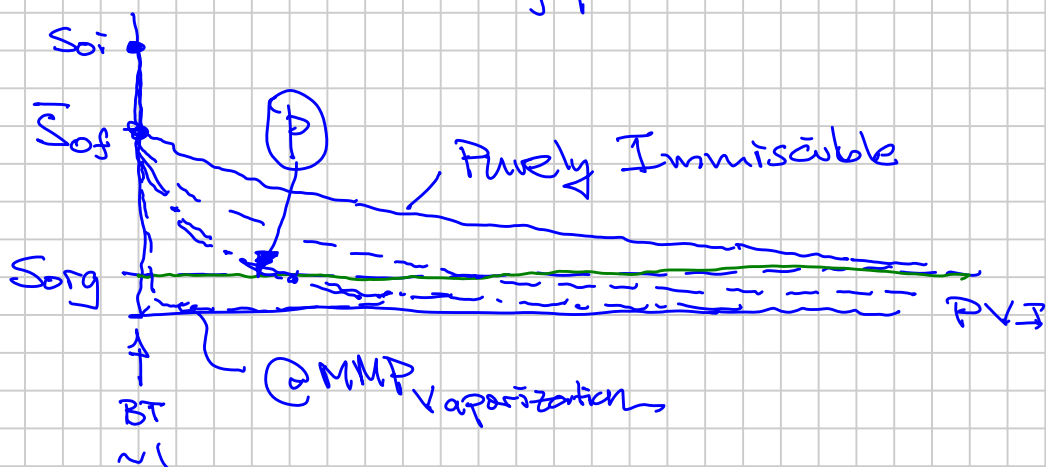
- High Pressure

- Net component transfer from RO phase to RG(IG) phase

$$K_i = \frac{y_i}{x_i}$$

-  $BW \Rightarrow \sum_{i=1}^n S_{oi} \Rightarrow 0$  (low value)  
= f(p)

higher  $K_i$   $\uparrow$   
RG  
RO



## ③ Swelling-Viscosity Reductions

- Heavier Oil ( $22-32^\circ \text{API}$ )

$$\mu_o \sim 5-50 \Rightarrow 1-10$$

- Lower  $p_R < 3500$  psia

$$V_{oi} \rightarrow V_{os} \sim 1.2 \rightarrow 2^+$$

- Undersaturated Oils

- Injection Gas: HCs "C<sub>1</sub>"  
C<sub>2</sub>-C<sub>4</sub> also

CO<sub>2</sub>

- Can be / often used together with water injection (WAG)

and alternating

