

Vaporized Oil Ratio = Rv

The quantitative measure of volatile oil in wet gas:

$$R_v = \frac{V_{Og}^o}{V_{Gg}^o} = \frac{m_{Og}}{m_{Gg}} \cdot \frac{\rho_G^o}{\rho_O^o}$$

where

$V_{Og}^o = \frac{m_{Og}}{\rho_O^o}$	STP volume of dead oil component of mass m_{Og} and STP density ρ_O^o
$V_{Gg}^o = \frac{m_{Gg}}{\rho_G^o}$	STP volume of natural gas component of mass m_{Gg} and STP density ρ_G^o

$R_v(p, T)$ is a cross-phase exchange coefficient and a function of pressure and temperature

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[\[Vaporized Oil Ratio Correlations @model \]](#)

[\[Cross-phase fluid exchange / Cross-phase exchange coefficient \]](#)

[\[Solution GOR \(Rs\) \]](#)