

# Production Gas-Oil Ratio = YG = GOR

@wikipedia

Ratio of gas production rate  $q_G^\uparrow$  to oil production rate  $q_O^\uparrow$ :

$$(1) \quad Y_G = \text{GOR} = \frac{q_G^\uparrow}{q_O^\uparrow}$$

The simplest way to model the **GOR** in a given well is the **GOR Fractional Flow** @model:

$$(2) \quad Y_G = \text{GOR} = R_s + \frac{M_{rg}}{M_{ro}} \cdot \frac{B_o}{B_g}$$

which provides a good estimate when the **drawdown** is much higher than delta pressure from gravity and capillary effects.

## See Also

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[ [GOR Fractional Flow](#) @model ] [ [Production Water Cut \(Yw\)](#) ]