

Cumulative Production Gas-Oil Ratio = YG = GOR

[@wikipedia](#)

Ratio of [Cumulative gas production](#) $Q_G^\dagger$ to [Cumulative oil production](#) $Q_O^\dagger$:

$$(1) \quad \Sigma Y_G = \Sigma \text{GOR} = \frac{Q_G^\dagger}{Q_O^\dagger}$$

The simplest way to model the [GOR](#) in a given well is the [GOR Fractional Flow @model](#):

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

which provides a good estimate when the [drawdown](#) is much higher than delta pressure from gravity and capillary effects.

See Also

[Petroleum Industry](#) / [Upstream](#) / [Subsurface E&P Disciplines](#) / [Well Testing \(WT\)](#) / [Flowrate Testing](#) / [Flowrate](#)

[[Well & Reservoir Surveillance](#)]

[[Surface flowrates](#)] [[Oil surface flowrate](#)] [[Gas surface flowrate](#)] [[Water surface flowrate](#)]

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