

$$GHG_i = \sum_j (GLR \times V \times MF_i)_j \times \rho_i \times 0.001$$

Where:

GHG_i = Annual emissions of greenhouse gas *i* attributable to associated gas, in metric tons;

j = Well;

GLR = Associated gas to liquid ratio for well *j*, determined in accordance with QC.33.4.12, in cubic metres of associated gas per cubic metre of liquid at standard conditions;

V = Annual volume of liquid produced, in cubic metres;

MF_i = Molar fraction of greenhouse gas *i* in gas in well *j*, determined in accordance with paragraph 3 of QC.33.4;

ρ_i = Density of greenhouse gas *i* that is 1.830 kg per cubic metre for CO₂ and 0.668 kg per cubic metre for CH₄ at standard conditions;

0.001 = Conversion factor, kilograms to metric tons;

i = CO₂ or CH₄.