$$CH_4 = \left(N \times H \times \frac{\left(P_{CV} + 14.7\right)}{14.7} \times f_{void} \times \frac{\pi \times D^2}{4} \times \frac{16}{MVC} \times MF_{CH4} \times 0.001 \right) \qquad \text{(Eq. Y-18)}$$