$$R_n = \sum_{m=1}^{M} \left[(V)_m * (K_{MC})_m * \frac{(C_{CH4})_m}{100\%} * 0.0423 * \frac{520^{o}R}{(T)_m} * \frac{(P)_m}{1\ atm} * \frac{0.454}{1,000} \right] \qquad \text{(Eq. II-4)}$$