T=30°C = 303K

$$\log p_{W}^{4} = 29.8605 + \frac{3152.2}{303} - 7.3037log(303)$$

$$+ 2.4292 \times 10^{-9} (303) + 1.809 \times 10^{-6} (303)^{2}$$
TYAKALLY NEGLIGIBLE

$$log pw' = 31.6 mm Hg$$
 VAPOR PRESSURE
$$pw = \frac{hr pw'}{100} = \frac{(65)(31.6)}{100} = 20.5 mm Hg$$

C

2 2165.
$$\times \frac{0.092 \text{ lbs Q}}{165} \times \frac{453.68}{16} \times \frac{1000 \text{ lbs Q}}{828} = 1.018 \text{ mod Q}$$

20' $\times 16' \times 9^1 = 2880 \text{ ff}^3 \times \frac{1000 \text{ lbs Q}}{35,315 \text{ ff}^3} = 81552 \text{ lbs Q}$

PY = nRT AiR: (1 atm)(81552L) = n(0.08206)(298K)

$$n_{AiR} = 3334.93 \text{ mod ls}$$

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$$n_{AiR} = 0.0003 \text{ ls}$$

Ya = 0.00031

NOTE: I HAVE ASSUMED THAT TOTAL MATERIAL IN CAS 15 AIR PLUS Q. ONE COULD ALSO ARGUE THAT latin \$ 81552L Practice Quiz #1 WAS AFTER Q VOLATILIZED,

3
$$C_i = C_{UQ} \frac{\rho_i}{H_i^*} = C_{UQ} \frac{\gamma_i}{\rho} \frac{\rho}{H_i^*}$$

WE DON'T KNOW WHAT $\rho \neq C_{UQ}$ ARE, BUT THEY

ARE THE SAME FOR ALL 3 GASES BEING

COMPARED, SO,

 $C_i \propto \frac{\gamma_i}{H_i^*}$

METHANE $C_M \propto \frac{0.20}{41300} = 4,84 \times 10^{-6}$

OXYGEN $C_0 \propto \frac{0.30}{43800} = 6.85 \times 10^{-6}$

NITROGEN $C_U \propto \frac{0.50}{86500} = 5.78 \times 10^{-6}$

NOTE: IF ONE WERE COMPARING THE 3 PARE OF THE THREE GASES, METHANE WOULD BE

Practice Quiz #1 MOST SOLUBLE 3

3

Practice Quiz #1