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# Applied Petroleum Reservoir Engineering

## 3rd Edition Solution Manual

### CHAPTER 2

2.1 using Equation 2.4:  $pV = nRT$

(a)  $V = \frac{1(10.73)(60 + 460)}{14.7} = 379.6 \text{ SCF}$

(b)  $V = \frac{1(10.73)(32 + 460)}{14.7} = 359.1 \text{ SCF}$

(c)  $V = \frac{1(10.73)(80 + 460)}{14.7 + 10/16} = 378.1 \text{ SCF}$

(d)  $V = \frac{1(10.73)(60 + 460)}{15.025} = 371.4 \text{ SCF}$

2.2 (a) number of moles of methane =  $10/16 = .625 \text{ moles}$

number of moles of ethane =  $20/30 = .667 \text{ moles}$

total number of moles =  $.625 + .667 = 1.292 \text{ moles}$

(b) from Equation 2.4

$$p = \frac{1.292(10.73)(550)}{500} = 15.25 \text{ psia}$$

# Petroleum Engineering Solution Manual

**Michael R. Lindeburg**

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