

*Pan American*

FRED FEASSEL "H" NO. 1

BOTTOM HOLE CHOKE CALCULATIONS

Solve for  $P_f$

$$P_f = \frac{1186}{1.3309 \times 0.9233 \times 0.9100 \times 1.094}$$

$$P_f = 1214 \text{ psia}$$

using  $P_f = 1214$ , find a new  $F_{pv}$

$$F_{pv} = 1.087$$

$$\text{and } \underline{\underline{P_f = 1223 \text{ psia}}}$$

Pressure Drop Across Choke:

$$dP_{ch} = P_f - (P_t + dP_{fr} + dP_h)$$

Where:

- $dP_{ch}$  = Pressure drop across choke
- $P_f$  = Pressure upstream of choke
- $P_t$  = Flowing surface pressure, psia
- $dP_{fr}$  = Friction loss in flow string
- $dP_h$  = Gas column pressure

Data:

- $P_f = 1223 \text{ psia}$
- $P_t = 314 \text{ psia}$
- $dP_{fr} = 393 - 314 = 79 \text{ psi}$
- $dP_h = 51 \text{ psi}$

$$\text{and } dP_{ch} = 1223 - (314 + 79 + 51)$$

$$\underline{\underline{dP_{ch} = 779}}$$

This pressure drop across the choke must be added to the calculated  $P_w$  in order to obtain a true value of  $P_w$ .

$$P_w = 393 + 779$$

$$\underline{\underline{P_w = 1172 \text{ psia}}}$$

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