

Pan American

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FRED FERGUSON "H" NO. 1

BOTTOM HOLE CHOKE CALCULATIONS

Solve for P_f :

H

$$P_f = \frac{11.86}{1.3309 \times 0.9233 \times 0.9100 \times 1.094}$$

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

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

$$P_{pv} = 1.087$$

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

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 .

$$P_w = 393 + 779$$

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

10. *Leucosia* *leucostoma* *leucostoma* *leucostoma* *leucostoma* *leucostoma*

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For more information about the study, contact Dr. Michael J. Koenig at (314) 747-2146 or via e-mail at koenig@artsci.wustl.edu.

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總理：請將此件交給王國維，並請他將此件轉交給胡適。

10. The following table gives the number of hours worked by each of the 100 workers.

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Chlorophyll a fluorescence and photosynthesis in *Phragmites australis* under different light regimes

10. *Constitutive* *transcriptional* *regulation* *in* *Escherichia* *coli* *K-12* *is* *not* *dependent* *on* *the* *sigma* *70* *RNA* *Polymerase*

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For more information about the study, contact Dr. Michael J. Coughlin at (319) 356-4000 or email at mcoughlin@uiowa.edu.

10. The following table shows the number of hours worked by each employee.

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2000-2001
2001-2002

1996-1997 学年第一学期期中考试卷

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10. The following table gives the number of hours worked by each of the 100 workers.

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