



Pc \_\_\_\_\_ Pc<sup>2</sup> \_\_\_\_\_

Pf \_\_\_\_\_ Pf<sup>2</sup> \_\_\_\_\_

No.	Pt	Pt <sup>2</sup>	Pc <sup>2</sup> -Pt <sup>2</sup>	Pw	Pw <sup>2</sup>	Pc <sup>2</sup> -Pw <sup>2</sup>	Ps	Ps <sup>2</sup>	Pf <sup>2</sup> -Ps <sup>2</sup>
1.									
2.									
3.									
4.									
5.									

25.

AOF (Mcf/d) \_\_\_\_\_

n \_\_\_\_\_

Remarks: \_\_\_\_\_

I hereby certify that the foregoing is true and correct to the best of my knowledge.

Certified

Digital Signature \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

### DEFINITIONS OF SYMBOLS

- AOF Absolute Open Flow Potential. Rate of Flow that would be obtained if the bottom hole pressure opposite the producing face were reduced to zero psia
- Fb Basic orifice factor Mcfd/  $\sqrt{hwP_m}$
- Fp Basic critical flow prover or positive choke factor Mcfd/psia
- Fg Specific gravity factor, dimensionless
- Fpv Super compressibility factor=  $\sqrt{1/Z}$  dimensionless
- Ft Flowing temperature factor, dimensionless
- G Specific gravity of flowing fluid (air=1.000), dimensionless
- Gg Specific gravity of separator gas (air=1.00), dimensionless
- GOR Gas-oil ratio, cu. ft. of gas (14.65 psia and 60 degrees F) per barrel oil (60 degrees F)
- hw Meter differential pressure, inches of water
- H Vertical depth corresponding to L, feet (TVD)
- L Length of flow channel, feet (MD)
- n Exponent (slope) of back-pressure equation, dimensionless
- Pa Field barometric pressure, psia
- Pc Shut-in wellhead pressure, psia
- Pf Shut-in pressure at vertical depth H, psia
- Pm Static pressure at point of gas measurement, psia
- Pr Reduced pressure, dimensionless
- Ps Flowing pressure at vertical depth H, psia
- Pt Flowing wellhead pressure, psia
- Pw Static column wellhead pressure corresponding to Pt, psia
- Q Rate of flow, Mcfd (14.65 psia and 60 degrees F)
- Tr Reduced temperature, dimensionless
- T Absolute temperature, degrees Rankin
- Z Compressibility factor, dimensionless

Recommended procedures for tests and calculations may be found in the *Manual of Back- Pressure Testing of Gas Wells*, Interstate Oil Compact Commission, Oklahoma City, Oklahoma.