10000 1000 1000 Form C-122 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 17 11 10 19 Revised 12-1-55 Formation Tetes 7-Rivers County trailet \_\_Annual\_\_\_ Special I Date of Test 1-15-156 Well No. Company Il Pace Material Cas Company Lease Maherly Company Unit Sec. 1 Twp. 6 Rge. 7 Purchaser 1 Page 16 Gargany Set at **3097** Perf. Wt. 17.0 I.D. Casing 😘 Tubing Wt. h.7 I.D. \_\_\_\_Set at **1130** Perf.\_\_\_\_\_ Gas Pay: From 116 To 3186 L 3097 xG 695 -GL 2182 Bar. Press. 13.2 Type Well\_\_ Producing Thru: Casing I Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Date of Completion: \_\_\_\_\_Packer\_\_\_\_ Reservoir Temp. OBSERVED DATA Tested Through (Recent) (Meter) Type Taps\_\_\_\_\_ Flow Data Tubing Data Casing Data (Prover) (Choke) Press. Diff. Press. Temp. Duration Temp. Press. Temp. No. (Line) (Orifice) of Flow  $\circ_{F}$ .  $^{\mathsf{o}}_{\mathrm{F}}$  . OF. Size Size psig psig psig Hr. SI 607 72 70 1,500 530 1.25 M 1.500 500 42 511 FLOW CALCULATIONS Rate of Flow Coefficient Flow Temp. Pressure Gravity Compress. Factor Factor Q-MCFPD No. Factor Fg @ 15.025 psia (24-Hour)  $^{'}$   $^{ ext{h}_{ extbf{W}}}$ p $_{ extbf{f}}$ psia  $F_{t}$  $F_{pv}$ 17-33 2. M 13.27 11.99 PRESSURE CALCULATIONS \_\_ cf/bbl. Specific Gravity Separator Gas Gas Liquid Hydrocarbon Ratio\_ Specific Gravity Flowing Fluid\_ Gravity of Liquid Hydrocarbons F<sub>c</sub>\_\_\_\_\_\_(1-e<sup>-5</sup>)\_\_\_\_\_\_\_\_\_( Pc see Pc 300.4  $(F_cQ)^2$   $(1-e^{-s})$  $P_c^2 - P_w^2$  $(F_cQ)^2$  $F_cQ$  $P_w^2$ Cal. No. Р<u>w</u> (psia) MCFPD; n\_\_\_\_\_ Absolute Potential: COMPANY II Page Matural Cos C ADDRESS P. C. Ber 13th, Jal R.D.W. night AGENT and TITLE R. T. Wright - Petrole COMPANY\_\_\_ El Page Satural Gas Co REMARKS

This is a <u>corrected copy</u> of test previously sent out.

## INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). MCF/da. @ 15.025 psia and 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw- Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt\_ Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{W}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{DV}^{-}$  Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .