## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

.levised 12-1-55 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS an Juan Pool Asher-Fietared Cliffs Formation Fictured Cliffs County Initial Annual Special Date of Test 1-19-57 Company PAN AMELICAN PUTPOLICAN CORP. Lease Says Cas India "C" Well No. 1 Unit Sec. 29 Two. 298 Rge. 10 Purchaser al raso attarel Cas Co. Casing 54\* Wt. 14. I.D. 5.012 Set at 1855 Perf. 1802 To\_\_\_\_\_ 10:26 Tubing 1.66" Wt. 2.35 I.D. 1-1/6" Set at 1805 Perf. 1996 To 1805 Gas Pay: From 1802 To 1826L 1814 xG 0.69 est -GL 1252 Bar. Press. 12 Producing Thru: Casing Tubing Tubing Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 11.30-37 Packer Reservoir Temp. Reservoir Temp. OBSERVED DATA Tested Through (Parks) (Choke) (The Choke) Type Taps\_\_\_ Tubing Data Casing Data Flow Data Duration Press. Temp. Diff. Temp. Press. Temp. (Prover) (Choke) Press. of Flow (Line) ( STREET, No.  $\circ_{\mathtt{F}}$  . OF. <sup>⊃</sup>F• Hr. psig psig Size psig Size 651. 651 Short in 19 d 60 60 ant 62 100 60 est 60 est FLOW CALCULATIONS Rate of Flow Compress. Flow Temp. Gravity Pressure Coefficient Q--MCFPD Factor Factor Factor No.  $F_{\mathbf{t}}$ @ 15.025 psia  $F_{pv}$ psia  $F_{g}$ (24-Hour) hwpf 0.9323 1,00 72 1,000 12.365 PRESSURE CALCULATIONS Gravity of Liquid Hydrocarbons cf/bbl. Specific Gravity Separator Gas\_ Specific Gravity Flowing Fluid 0.69 est.

Pc 663 Pc 439,569 \_\_\_\_deg. (1-e<sup>-s</sup>) Fc---- $P_{\mathbf{w}}$  $(\mathbf{F_cQ})^2$  $(F_cQ)^2$  $P_c^{\kappa} - P_w^{\Omega}$  $\frac{P_{\boldsymbol{w}}}{P_{\boldsymbol{C}}}$ Cal.  $P_w 2$  $F_cQ$ No. (1-e-8) Pt (psia) 12,544 421,025 Absolute Potential: 651 MCFPD; n

COMPANY PER HERICAN PERCENTION Box 487, Parmington, New Mexico 12111 Sauce WITNESSED COMPANY REMARKS Ī/Ì.

## 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 I Actual rate of flow at end of flow period at W. H. working pressure ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .

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