NEW MEXICO OIL CONSERVATION COMMISSION

10.707 7.77 7.77 2 Revised 12-1-55 Form C-122 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Yates Jalmat ____County__ Pool Formation 11-5 to 11 9-56 Special Initial Annual __Date of Test____ Company Trebol & Redman Federal Y ___Lease_ Well No. 238 E: Paso Natural gas Unit C 36E _Sec.___**5** Twp._ Unit Sec. Twp. Rge. A 3404 Casing 5 1/2 Wt. 17 I.D. Set at Purchaser Perf.____To Tubing 2 1/2 Wt. 6.5 I.D. 2.441 Set at 3573 _Perf.___ 3573 Gas Pay: From 3404 To 3575 13.2 жG Type Well Producing Thru: Casing____ Tubing None Single-Bradenhead-G. G. or G.O. Dual
Packer Reservoir Term Date of Completion: OBSERVED DATA Flange Tested Through (Frover) (Choke) (Meter) Type Taps_ Flow Data Tubing Data Casing Data (Prover) Press. Diff. Temp. Press. Temp. Press. Temp. Duration No. (Line) (Orifice) of Flow $\circ_{\mathbb{F}_{\bullet}}$ $\circ_{F_{\iota}}$ $^{\circ}F$. Size Size psig psig Hr. 611 24 1.000 353 2. 89 1.000 359 16. 0 60 516 9.61 415 24 1.000 443 1.000 383 24 FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow No Factor Q-MCFPD Factor Factor h_wpf 33.53 @ 15.025 psia (24-Hour) F+ 0019 psia F 019 6. 135 466 1.038 1.0000 9498 6. 135 77.15 405 1.0000 66, 13 6. 135 719 . 9952 . 9498 6. 135 1 19.40 PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio ____cf/bbl. Specific Gravity Separator Gas_ Gravity of Liquid Hydrocarbons

Fc (1-e-s) Specific Gravity Flowing Fluid PWKK $(F_cQ)^2$ $(\mathbf{F_cQ})^2$ $P_{\mathbf{t}}^2$ $P_c^2 - P_w^2$ No. F_c^Q Cal. P_{w}^{2} Pt (ps) (1-e-s) (psia) 77.0 389. 1.35 389.8 1, 16 529. 2 528. 2 280. 2. 38 278. 4. 22 205. 0 17.81 181.8 423.2 .978 1150 Absolute Potential: Rodman MCFPD; n ADDRESS Box 3908 Odessa, AGENT and TITLE Edward Mube WITNESSED El Paso Natural Gas Company COMPANY

REMARKS

LIVIS A. BREINEER

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_w) . MCF/da. @ 15.025 psia and 60° 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.
- hw- Differential meter pressure, inches water.
- FgT Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If $P_{\mathbf{w}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{w}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.