## NEW MEXICO OIL CONSERVATION COMMISSION

Wilder Form C-122 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55 Pool Formation San Andres County Les X Initial \_\_\_\_\_\_Special \_\_\_\_\_\_Date of Test 2-13 to 2-23-64 Annual Company Fan American Petroleum Corporat.Lease Federal "A" Well No.\_\_\_\_ Sec. 13 Twp. 9-8 Rge. 35-E Purchaser Simelair 011 and Gas Company Unit Liner Gasing 7-5/8" Wt. 170/2t L.D. Casing 7-5/8" 29.70/2t est. 4.892 Set at 3911-9615perf. 4746' To\_ 6.875 6-4140 Tubing 2-1/2" Wt. 6.54/28 I.D. 2.441 Set at 4653 Perf. Open End To\_ Gas Pay: From 4746' To 4818' L 4653' xG 0.830 -GL 3862 Bar.Press. 13.2 Producing Thru: Casing\_\_\_ Tubing Z Type Well Single Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 1-18-64 Packer set 64623 Reservoir Temp. 1660 OBSERVED DATA Tested Through (Meter) Type Taps\_ Plance Flow Data Tubing Data Casing Data (Freeze) ( SHORE) Press. Diff. Temp. Press. Temp. Press. Temp. Duration No. (Line) (Orifice) The of Flow Size Size OF. psig OF. hw oF. psig psig Hr. 3 in. 2 in. 1387 72 Rr. S. T. 3 12. 2 in. 7.640 6.050 32 723 137 Ers. 5q. Root Chart 0-50" 0-1000 paig Must Wee L-10 Factor 2.2360 FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow No. Factor Factor Factor Q-MCFPD (24-Hour) / hwpf psia Fg Fŧ  $\mathbf{F}_{\underline{p}\underline{v}}$ @ 15.025 psia 27.52 42.87 736,2 1.0078 0.8502 2. 1.062 2401 495,6 PRESSURE CALCULATIONS Fas Liquid Hydrocarbon Ratio 1,856,115 cf/bbl.
Fravity of Liquid Hydrocarbons 43.3 API deg.

(1-e-8) 0.233 Specific Gravity Separator Gasa and Specific Gravity Flowing Fluid\_\_\_\_\_ Pc\_\_\_\_1913.0 1307 1400,2 1960.6  $\overline{P}_{\mathbf{W}}$  $P_{t}^{2}$  $(F_cQ)^2$ No. F<sub>c</sub>Q  $(F_cQ)^2$  $P_c^2 - P_w^2$ Cal. P<sub>w</sub> F<sub>c</sub> Pt (psia) (1-e-8) P 736.2 14,684 198,36 44.213 588.22 Absolute Potential: 3,457 ACENT and TITLE J. W. Mock - Area Resident MCFPD; n\_ WITNESSED COMPANY REMARKS Unable to run a Multi-Point Beek Pressure Test due to cheke freezing at lower cheke settings. No heater equipment on well.

## 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  $(P_{\rm W})$ . MCF/da. @ 15.025 psia and 60° F.
- P<sub>c</sub>= 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
- Pr Meter pressure, psia.
- h. Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft 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  $P_{\rm t}$ .