## NEW MEXICO OIL CONSTRUATION COMCUSSION

NEW MEATON 1956 SEP 21 AM 9:56 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55

Pool Bumont Formation Queen County Lea Annual Special Date of Test 6-24-56 Initial 🗶 Company The Texas Company Lease William Weir Well No. 2 Unit Sec. 23 Twp. 19-8 Rge. 36-E Purchaser Permiss Basin Pipe Line Go. Casing 7 Wt. 24.0 I.D. 6.336 Set at 3700 Perf. To Tubing 2 7/6 Wt. 6.5 I.D. 2.441 Set at 3717 Perf. Open and To\_\_\_\_\_ Gas Pay: From 1700 To 1925 L 1717 xG .690 -GL 2565 Bar. Press. 13.2 Producing Thru: Casing \_\_\_\_\_Tubing \_\_\_\_\_ Type Well Single Single-Bradenhead-G. G. or G.O. Dual Date of Completion: \_\_\_\_\_\_\_Packer\_\_\_\_ Reservoir Temp. CO<sub>2</sub> = 2.00% H<sub>2</sub> = 2.13% OBSERVED DATA Tested Through (Trover) (Ohoke) (Meter) Type Taps\_\_\_\_ Flow Data Tubing Data Casing Data Press. Diff. (Frover) (Ghoke) Temp. Press. Temp. Press. Temp. Duration No. (Line) (Orifice) of Flow  $^{\circ}F$  . oF. OF. Size Size psig psig psig Hr. 40.1 662.0 19.1 638.4 31.0 525.2 FLOW CALCULATIONS Coefficient Flow Temp. Pressure Rate of Flow Gravity Compress. No. Factor Factor Factor Q-MCFPD Fg (24-Hour)  $^{'}$   ${ t h_{f w}}{ t p_{f f}}$  $\mathbf{F}_{\mathsf{t}}$ @ 15.025 psia psia  $\mathbf{F}_{\mathbf{p}\mathbf{v}}$ 1.052 473.3 21.69 44.06 1.000 .972 93.27 .9)23 .9)23 21.09 475.3 462.9 PRESSURE CALCULATIONS Hydrocarbon Ratio cf/bbl.
Liquid Hydrocarbons deg. Gas Liquid Hydrocarbon Ratio Specific Gravity Separator Gas\_ Gravity of Liquid Hydrocarbons Specific Gravity Flowing Fluid P<sub>c</sub> 917.9 P<sub>c</sub> 442.5 Fc 5.866  $(\mathbf{F_cQ})^2$  $(F_cQ)^2$  $P_c^2 - P_w^2$  $F_c^Q$ No. Cal. (1-e-s) (psia) 4.894 **163.3** 750.2 W. ILI (.2 23.5 577. 712.0 309.2 17.02 Absolute Potential: 4.295 MCFPD; n COMPANY ADDRESS AGENT and TITLE AGENT ADDRESS .69 WITNESSED COMPANY PERMIAN BASIN PIPE LINE COMPANY REMARKS

This is a retest.

## 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 600 F.
- Pc= 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI 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 Pw must be calculated by adding the pressure drop due

to friction within the flow string to Pt.