3-0CC ..... 1-EPMG, Parrich 1-EPMG, 1-Texas Mat\*1. NEW MEXICO OIL CONSERVATION COMMISSION 1-P. A. 1-Lion 2-Aztec 0 & G Form C-122 1-W Pred. Revised 12-1-55 1-B, 2-F MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS
3-Tidewater, Dur. 2-Mid. Formation Dakota County San Juan Pool Basin Daketa \_\_\_ Initial X Annual Special Date of Test 4/26/62 Company Southwest Production Company Lease Jess Jaquez Well No. 1 Unit K Sec. 24 Twp. 30M Rge. 12W Purchaser H1 Paso Matural Gas Company Casing 4 1/2 Wt. 10.50 I.D. 4.052 Set at 6548 Perf. 6332 To\_\_\_\_ 6486 Gas Pay: From 6332 To 6486 L 6309 xG .67 \_GL 4227.0 Bar.Press. 12.0 Producing Thru: Casing Tubing X Type Well Single Gas

Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 4/17/62 Packer Packer \_\_\_\_Reservoir Temp.\_\_\_ OBSERVED DATA Tested Through (Choke) (Choke) Type Taps\_ Flow Data Tubing Data Casing Data Duration (Prover) (Choke) Diff. Temp. Press. Temp. Press. Temp. Press. of Flow (Orifice) (Line)  $\circ_{\mathbf{F}_{\bullet}}$ OF. °F.  $\mathbf{h}_{\mathbf{W}}$ Size Size psig psig psig Hr. 7 days 2083 2104 3/4" 278 80 3 hore. 1348 278 FLOW CALCULATIONS Flow Temp. Gravity Compress. Rate of Flow Coefficient Pressure Q-MCFPD Factor Factor Factor  $\mathbf{F}_{\underline{\mathbf{g}}}$ **@** 15.025 psia  $\mathbf{F}_{\underline{p}\underline{v}}$ / h $_{\mathbf{w}}$ P $_{\mathbf{f}}$ psia  $F_{\mathbf{t}}$ (24-Hour) 12,3650 3,423 290 .9813 2463 1.028 PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl.

Gravity of Liquid Hydrocarbons deg.

F\_C\_\_\_\_(1-e^{-8}) Specific Gravity Separator Gas Specific Gravity Flowing Fluid\_\_\_ P<sub>c</sub> 2116 P<sub>c</sub> 4477.4

No.

No.

						<b>5</b>				
No.	P <sub>w</sub> Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	Pw Pc	
1.						1849.6	2627.8		.642	
2.										
3. 4.										
4.										
5.										
<del></del>										

5, 104 MCFPD; n\_ Absolute Potential:\_\_\_\_ COMPANY Southwest Production Company 207 Petr. Club Plaza, Farmington, New Mexico **ADDRESS** AGENT and TITLE George L. Noffman, Production Engineer
WITNESSED Er. Art Smith Il Pace, Matural Gas Company COMPANY REMARKS



## 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 (Pw). 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
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}^{-}$  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  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_t$ .