7. 6	371-12 000 Form C-122
WELLS	Revised 12-1-55

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MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Pool Jaluat Formation Yates County Initial Annual Special I Date of Test 3-24 Company El Paso Natural Gas Company Lease Moberly Elliott Well No. 2 Unit D Sec. 21 Twp. 26 Rge. 37 Purchaser El Paso Natural Gas Casing 5 Wt. 14 I.D. Set at 3236 Perf. To Tubing 2 Wt. 4.7 I.D. Set at 3024 Perf. To Gas Pay: From 3018 To 3036 L 3024 xG.631 GL Bar.Press Producing Thru: Casing Tubing I Type Well Single Date of Completion: Res 8-18-49 Packer Name Reservoir Temp. OBSERVED DATA	7 43 1/4-1-60 Company 3s. 13.2	
MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Formation	7 43 1/4-1-60 Company 3s. 13.2	
Pool Jalust Formation Tates County Lease 7 Initial Annual Special I Date of Test 3-24. Company El Peso Natural Gas Company Lease Moberly Elliott Well No. 2 Unit D Sec. 21 Twp 26 Rge. 37 Purchaser El Paso Natural Gas Casing 54 Wt.14 I.D. Set at 3236 Perf. To Publing 2 Wt. 4.7 I.D. Set at 3024 Perf. To Gas Pay: From 3018 To 3036 L 3624 xG.631 -GL Bar.Press Producing Thru: Casing Tubing I Type Well Single Date of Completion: Res 8-18-49 Packer Mene Reservoir Temp. OBSERVED DATA	7 43 1/4-1-60 Company 3s. 13.2	
Annual Special I Date of Test 3-24. Company El Paso Natural Gas Company Lease Hoberly Elliott Well No. Unit D Sec. 21 Twp 26 Rge. 37 Purchaser El Paso Natural Gas Casing St Wt. 14 I.D. Set at 3236 Perf. To Cubing 2 Wt. 4.7 I.D. Set at 3024 Perf. To Gas Pay: From 3018 To 3036 L 3624 xG.631 GL Bar. Press Producing Thru: Casing Tubing I Type Well Single Observed Data	Company 3s. 13.2	
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Fubing 2 Wt. 4.7 I.D. Set at 3024 Perf. To Gas Pay: From 3018 To 3036 L 3024 xG 631 _GL Bar.Press Producing Thru: Casing Tubing I Type Well Single Single-Bradenhead-G. G. or G. Oate of Completion: Res 8-18-49 Packer Neme Reservoir Temp. OBSERVED DATA	ss. 13.2	
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Oate of Completion: Res 8-18-49 Packer None Reservoir Temp. OBSERVED DATA	O. Dual	
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Flow Data Tubing Data Casing Data		
(Recen) (Chake) Press. Diff. Temp. Press. Temp. Press. Temp.	Duration of Flow	
Size Size psig h _w o _F . psig o _F . psig o _F .	Hr.	
	72	
1.250 53h 5.29 59 713 717 1.250 585 9.00 57 689 705 h 1.250 532 15.21 65 667 687 1.250 545 18.69 66 668	2 <u> </u>	
1.250 Sh5 18.h9 66 6h8 660	24	
FLOW CALCULATIONS		
6. Fig. Factor Factor (Rate of Flow Q-MCFPD	
, A MIT I TO B DA	@ 15.025 psia	
9.643 53.80 1.0010 .9752 1.054 9.643 69.60 1.0029 .9752 1.054 9.643 91.06 .9952 .9752 1.050	533.7 691.6	
9.6k3 91.06 .9952 .9752 1.050 9.6k3 101.6 1.0000 .9752 1.053	894.7	
9.6k3 101.6 1.0000 .9752 1.053 PRESSURE CALCULATIONS	1,006	
s Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separa	rator Gas	
avity of Liquid Hydrocarbons deg. Specific Gravity Flowing	ing Fluid	
Negatived (1-e ^{-s}) Pc 7h6.2 Pc 556	<u> </u>	
[o.] P_{w} P_{t}^{2} $F_{c}Q$ $(F_{c}Q)^{2}$ $(F_{c}Q)^{2}$ P_{w}^{2} $P_{c}^{2}-P_{w}^{2}$ Cal P_{c}^{2}	P _W P _C	
. 730.2 533.2 23.6	97.8	
· 700.2 490.3 66.5	96.8 93.8	
673.2 103.6	90.2	
bsolute Potential: 2.560 MCFPD; n 63-5-500		
OMPANY FI Page Natural Gas Company DDRESS P. G. Rey 1384 - Jal - New Merica		
DDRESS P. O. Box 1384 Jol. Now Maries GENT and TITLE C. J. W. Maries R. T. Wright - Petroleum Engineer		
COMPANY El Pasa Natural Gas 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 I 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
- P_w 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.