			· .	• • •							Form C-122	
									WELLS		evised 12-1-55	
Poo	1 Jalmar	t	· .	F	ormatior	<u> </u>	lates		_County 1	Lea		
Ini	tialX		Annu	al		Spec	ial		_Date of	Test_4-6	/4 <b>-1</b> 0/1959	
Com	pany El Pa	so Nat	ur <b>al</b> G	as Com	p <b>any</b>	Lease	wells		Wel	l No	11	
											Company	
	Casing 5 ½ Wt. 15.5 I.D. Set at 3334 Perf. 3030 To 3140											
Cubing Wt.  Set at Perf. To   Tubing Wt. 4.7 I.D. Set at Perf. To												
Tub.	Gas Pay: From 3030 To 3140					et at	Pe	sumed		10	12 0	
											s	
Proc	ducing Thru:	Ca	sing		Tu	lbing	Sin	Type We	nhead-G.	e G. or G.	O. Dual	
Date	e of Complet	ion:	11-15	-57	Packe	r_None	<u></u>	Reservo	ir Temp			
						OBSERV	ED DATA					
Test	ted Through		Mark) ((	<b>) () () ()</b>	(Meter)				Туре Тар	s Flan	ge	
<u> </u>				_	Diff.	Temp.	Press.		Casing D Press.	Temp.	Duration	
No.	(Line) Size		fice) Lze	psig	hw	° <sub>F</sub>	psig	°F.	psig	<sup>&gt;</sup> F.	of Flow Hr.	
SI				psig	1'W		552	L' (	<u>552</u>		72	
1.	4	1.250		203	22.09	53	531		537		24	
2.	4	1.250		212	31.36	45	513		530		24	
3.	<u> </u>	1.250		210 222	73.10	49	494		521	┝───┢─	24	
4. 5.	4	;		222	92.16		480		517		24	
No.	Coefficient <b>Flange</b> (24-Hour)		√ h <sub>w</sub> r	Df	essure psia	osia Fact		Gravity Factor <sup>F</sup> g	Compre Facto F <sub>pv</sub>	r (	Rate of Flow Q-MCFPD @ 15.025 psia	
1.	9.643		69.			1.0068		•9535	1.02	- <u> </u>	654.5	
2.	9.613		84.			1.0147		• <b>953</b> 5	1.026		804.4	
3. 4.	9.643			•		1.0107		•9535	1.026		1217	
<u>4.</u> 5.	9.00	9.643 147.		2		1.0098		• <b>953</b> 5	1.02	<u> </u>	1402	
PRESSURE CALCULATIONS (Assumed) Gas Liquid Hydrocarbon Ratio_DryCf/bbl. Specific Gravity Separator Gas <u>.660</u> Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid FcG55.2 P <sup>2</sup> 319.4												
ŢŢ	V <sub>w</sub>				( = _ ) 2		0,2	<b>.</b>	22			
No.	Pt (psia)	Pt		Y	(F <sub>c</sub> Q) <sup>2</sup>		$\left  \frac{Q^2}{e^{-s}} \right $	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal. P.	Pc	
<u>.</u>	-544.2	269						302.7	16.7	550.2		
2.	531.2	282.2			Magazi			295.1	24.3	543.2	.96	
<u>3.</u> 4.	507.2 493.2	257.		• • •	rieasur	ed		285.4 281.1	<u>34.0</u> 38.3	534.2	•95	
<u>4.</u> 5.						· · · · · · · · · · · · · · · · · · ·						
COMP		Paso I	latura	Gas (	ompany leu Merri	_MCFPD;	n1.00	00				
ADDRESS P.O. Box 1364; Jal, New Mexico AGENT and TITLE P.J. (1) Month, n.T. wright - Petrolewn Engineer												
			H. Ker		(							
COMPANY El Paso Natural Gas Company REMARKS												

Good point alignment thru 3 points, but slope greater than 1.000. Slope of 1.000 drawn thru point corresponding with Highest rate of flow.

## 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
- P<sub>W</sub> 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<sub>f</sub> Meter pressure, psia.

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- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>py</sub> Supercompressability factor.
- n [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  $P_+$ .