## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

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	ipicoic	711	2102				neservo	orr remb•	100	AUGUNGU
					OBSERV	ED DATA				
ested Thro	ugh 🤇	Prover)	( <del>Cheke</del> )	( <del>Motor</del> )				Type Tap	os	
		Flow	Data		<del></del> -1	Tubing	Data	Casing I		T
	er)	(Choke)	Proce	Diff.	Temp.			Press.		Duration
). (Lin	e)  ( e	Orifice) Size	psig	h <sub>w</sub>	$\circ_{\mathtt{F}_{ullet}}$	psig	°F.	psig	<sup>⊃</sup> F•	of Flow Hr.
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2 X 1/2	10		++		69 72	<u> 481</u> 161		<del></del>	ļ	1
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2 X 1	1/4	OVT	1.0		70	227		10/64 Che		24
<del></del>	<u></u>	<del>,</del>				CULATIONS				
1	Coefficient		Pre	Pressure		Flow Temp.		Compress. Factor		Rate of Flow
(24-	-Hour)	$\sqrt{h}$	wpr r	osia	rac F.	+	ractor F <sub>~</sub>	F	r	Q-MCFPD @ 15.025 psia
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	.785	1		4.2	•991		<b>.8660</b>	1.06		361
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Vol. 2	3.069 17.5	Chf		5.2	988 990		-8660 -8660	1.00		119 187
Liquid Hy vity of L		Hydrocarl	io	PRE	cf/bbl.	ALCU ATI	Speci Speci		ty_Flow	arator Gas ving Fluid <b>059.3</b>
P <sub>w</sub>		P <sub>+</sub> <sup>2</sup> I	e Q	$(F_cQ)^2$	(F	(2) <sup>2</sup>	P <sub>w</sub> .2	$P_c^2 - P_w^2$	C:	al. Pw
Pt (psi	ia)	3			(1:	c <sup>Q)<sup>2</sup> -e<sup>-s</sup>)</sup>	- W -	-C -W	I	Pw Pc
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Well producing water. Unable to get point alignment or stabilization because of logging in tubing.

## 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 bac: 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.
- $P_c$ I 72 hour wellhead shut-in casing (or tubing) ressure whichever is greater. osia
- PwI Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{py}$  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  $P_{\rm t}$ .