Form C-122
Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Initia	al	<u> </u>	Ar	nual_			Spec:	ial	<del></del>	_Date of	Test	8-10-64	
Compa	ny PAN AN		N 793		con).	I	ease_	lleges (	laayon fii	1 Thise	Ll No	1	
Unit	•	_Sec.	23	Twp	91	Rge	139	Purc	haser		·		
Casin	4-1/2	_Wt	10.5	_I.D	4.052	Set	at	238 Pe	rf. 3135-	1138	To	6154-6164	
Tubing	2-3/8	_Wt	4.7	_I.D	1.995	Set	at	<b>973</b> Pe	rf	6668	To	6074	
Gas Pa	ay: From	m_ 604	a To	6164	I	,6	103 x	.700		4272	Bar.Pre	28812	
Produc	ing Thr	u: (	Casing	5	<del></del>	Tub	ing	3	Type We	11	Single		
Date o	of Compl	etion	:	0-10-64	F	acker		Sin	gle-Brade Reservo	nhesd-G. ir Temp.	G. or G		
							OBSERVI	ED DATA					
Teste	i Throug	h 🥌		(Chok	e) (	<del>101)</del>				Type Tap	os	71.aaga	
·				Data					Data	Casing I			
No.	(Line)					- 1	- 1		Temp.	1	1	Duration of Flow	
707	Size	_	Size	ps	ig	h <sub>w</sub>	o <sub>F</sub> .	psig	°F.	psig	°F.	Hr.	
SI 1.	S Lines		.730	31				311	W	L	100 00	. 3 20.	
2.													
3.													
4. 5.	······································	_						<del></del>	<del> </del>		-		
						<u>-</u>	T COL CAT	THE A STORY	·c	<del></del>			
<del></del>	Coeffi	fficient				FLOW CALCULAT:			Gravity Compress. Rate of Flow			Rate of Flow	
No.							Fact	tor	Factor	Factor		Q_MCFPD	
			r)  √ h <sub>w</sub> p		f psia		Ft		Fg			● 15.025 psia	
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3. 4. 5.							<del> </del>						
5.													
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ˈc				_(1-e <sup>=</sup>	<u> </u>				Pc	3052	Pc	230,744	
No.	w t (psia	)	Pt <sup>2</sup>	F <sub>c</sub> Q	(F	r <sub>c</sub> Q) <sup>2</sup>	(F <sub>0</sub>	Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2-P_w^2$		Pw Pc	
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4.					1_							<u> </u>	
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-							REM	ARKS				1964	

## 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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>w</sub>). 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- F<sub>nv</sub> 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  $P_t$ .