## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Blanco			Fc	ormation	Mesa.	Verde		_County <b>S</b>	n Juan		
Init	tial		Annu	al		Spec	cial		Date of	Test_	6-27-58	
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Test	ed Through	(\$H	144 (	Choke)	(4444)			vs.	Time Tan	e		
					(Model)							
$\overline{}$	(Prover)		Flow D		Diff	Temp.	Tubing Press.		Casing D		Duration	
No.	(Line)		ifice)			•					of Flow	
	Size	5	Size	psig	h <sub>w</sub>	°F.	psig	°F.	psig	°F∙	Hr.	
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.	Coeffic	ient			I .		Temp.	•		1	Rate of Flow	
No.	(0) 11			Factor			Factor	i				
		ır)   $\sqrt{h_{w}p}$			psia	Ft		Fg	Fpv		@ 15.025 psia	
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					PRI	ESSURE C	ALCU ATIO	ns				
	iquid Hydro					cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas	
	ty of Liqui	•		ons L-e <sup>-s</sup> )		deg.		Speci	fic Gravi <sup>:</sup>	ty Flow	ring Fluid	
c				r-e -7_				Pc		_P <sub>C</sub>	E-&	
	$P_{\mathbf{w}}$		<u> </u>					291		T		
No.	•	P	$\frac{2}{t}$ $F_c$	,Q	$(F_cQ)^2$	(F	$\begin{pmatrix} c^{Q} \end{pmatrix}^2 - \epsilon^{-S} \end{pmatrix}$	$P_{w}2$	$P_c^2 - P_w^2$	Ca	1. P.,	
	Pt (psia)		١ )			(1	-e <sup>-s</sup> )			P	$\frac{P_W}{P_C}$	
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## 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
- PwT 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$  Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</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  $P_{+}$ .

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