## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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sing	5 1/2 Wt	. 15.	500 I.D	4.5	<b>750</b> Set	at	<b>31</b> Pe:	rf		ro <u>lc</u>	50	
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	ing Thru:											
ote c	f Completi	on• §	Total I	196	 6 Packer		Sin	gle-Brader Reservo	nhead-G. ( ir Temp	G. or (	3.0. Dual	
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sted	Through				(RELEX)			-5-1-				
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٥.	(Line) Size	(Òrif:	ice)			°F•		o <sub>F</sub> .	psig	°F∙	of F	
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		3/4	#	375		58	375	58	<u></u>		) hour	
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0.	Coefficient (24-Hour) $\sqrt{h_W}$		$\sqrt{h_{\mathbf{W}}p_{\mathbf{y}}}$	Pressure		FLOW CALCULATIO Flow Temp. Factor Ft		Gravity Factor Fg	Factor F <sub>pv</sub>		Rate of Flow Q-MCFPD @ 15.025 psia	
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0.	P <sub>W</sub>	Pt	Fc	Q	(F <sub>c</sub> Q) <sup>2</sup>	(1	[cQ) <sup>2</sup> L-e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$		Cal. Pw	
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OIL CON. SOM. DIST. 3

## 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 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- $F_{g}$  Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}$  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  $P_{\rm t}$ .

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