MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-	-1-	.5	5

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	ing 2-3/8"											
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	e of Comple										G.O. Dual	
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		,					ED DATA					
Test	ted Through	n (Pro	over) (Choke	Meter)			Type Tar)s		
	(Provon	1 Car	Flow I	ata	. Diac			g Data	Casing I		T	
No.	(Line)	(0ri	fice)		Diff.	J		. Temp.		!	Duration of Flow	
SI	Size		31ze 3.750	psig	h _w	o _F .		°F.			Hr.	
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4. 5.		7		 						<u> </u>		
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	Coeffic	ient	 		ressure	FLOW CAL	CULATION	NS Gravity	Compre	ee 1	Rate of Flow	
No.	(24 - Ho		 	 [Fact	tor	Factor	Facto		Q-MCFPD	
1.	12.3650			w ^p f psia		• 9905		F _g	F _{pv}		@ 15.025 psia	
2 .									1.00		2.376	
5.			<u> </u>									
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					PR	ESSURE CA	LCULATI	ONS				
as Li ravit	iquid Hydr ty of Liqu	ocarbon id Hydi	n Ratio	o		cf/bbl.					rator Gas	
(1-e ⁻⁵)								cific Gravity Flowing FluidP ² P ² P ³ P ²				
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10.	$P_{\mathbf{w}}$	P	2 F.	Q	$(F_cQ)^2$	(F	a) ²	P _w 2	$P_c^2 - P_w^2$	Ca	1. P.,	
_	Pt (psia)				(-64)	(1-	Q) ² e ^{-s})	.,		F	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
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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 = Actual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c 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.
- Ft 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 $P_{\rm t}$.