MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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nit _	A s	ec. 35	Twp	311	Rge	e. 12W	Purc	haser Sou	them Uni	on Gas	Company	
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oduc:	ing Thru:	Cas	ing		Tul	oing	XX Sin	Type We	ell Singlenhead-G.	e Cas	G.O. Dual	
ite o	f Complet	ion: 7/	/6/61		Packer	r	•	Reservo	oir Temp.			
						OBSERV	ED DATA					
sted	Through	TEXA	<u>\$</u> (0	hoke)	(Mětěř)				Туре Тар	ε		
	(P\$9\$\$\$)		low Da		Dice		Tubing		Casing D		Donation	
, ,	(Line)	(PATE	[88)		Diff.	•	Press.			Temp.	Duration of Flow	
-	Size	Siz	ze	psig	h _w	°F•	psig	°F.	psig	[⊃] F•	Hr.	
-	2 st	3/4		233	•	790	1078 233	790	550	<u> </u>	3 hrs.	
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	Coeffici	ent	-	Pre			CULATION:		Compre	ss.	Rate of Flow	
•	(24-Hour)		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		-	Fac	tor	Factor	Factor		Q-MCFPD @ 15.025 psia	
					osia 5	•9822		•9325	F _{pv}		2844	
vity	uid Hydroo of Liquio	d Hydro	carbo				ALCU ATI	Speci Speci		ty Flow	rator Gas ving Fluid 33.45	
Pv	N	P _t .		0	$(F_cQ)^2$	(F	0)2	D 2	P _c -P _w ²		l. Pw	
Pt	t (psia)	¹t	Fc		(1. C/4)		c ^{Q)² -e^{-s})}	P _w 2			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 \equiv 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
- P_f Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to P_{+} .