Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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sted Through) (Choke)	<u>)</u>			Туре Тар	5		
(110101)		w Data	s. Diff	Temp.	Tubing Press.		Casing D	Temp.	Duratio	
(Line)	(Crimina)	(4)		•		_		o _F .	of Flo	
Size	Size	1 2	g h _w	°F.	psig 653	° _F ,	psig	F.	Hr.	
2"	Y*			400(466)	70		27		3 hours	
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	. 			77.01.047	OVE A SECOND	· · · · · · · · · · · · · · · · · · ·		 		
Coefficie			Pressure	Flow	CULATION: Temp.	Gravity	Compre		Rate of Flow	
(24-Hour) $\sqrt{h_{W}p_{f}}$		h. De	psia			Factor F _g	Factor F _{pv}		Q-MCFPD @ 15.025 psia	
12,365	12,365		37	F _t		0.9454	1,000		143	
										
L				<u></u>						
			P.	RESSURE (ALCUATION	ONS				
Liquid Hydrod vity of Liquid				_ cf/bbl. deg.					rator Gas ing Fluid	
VICY OF LIQUID		(1-e ⁻⁸	3)	ueg	_	Pc-			2,225	
			-							
P _w	$P_{\mathbf{t}}^{2}$	F _c Q	(F _c Q)	2 (1	, 0)2	P _w 2	$P_c^2 - P_w^2$	Ca	P.,	
Pt (psia)	¹t	¹ c •	(, C.	(1)_	(cQ) ² (-e ^{-s})			P,	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 Tactual 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
- 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.

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