## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Revis	ed	12	-1-	-55

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Init	ial	<u> </u>	Annı	ual		Spec	ial		Date of	Test	Nov. 4, 1958
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	<u>D</u>										-
											3850
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											3819
											ess. <u>12.0</u>
Prod	ucing Thru:	: Ca	sing_		Tu	bing	X Sin	Type We	ell Sing	le Gas	T.O. Duol
Date	of Complet	ion:	0-25-5	8	Packe	r		_Reserve	oir Temp.		J.O. Dual
							ED DATA				
l'est	ed Through	ŔŔĸ	<b>16</b> 0°) (	Choke)	(Meter)				Type Tap	ps	
	(D	1 70	Flow D	ata			Tubing		Casing I	Data	<u> </u>
No.	(Prover) (Line)	(Ch	oke) fice)	Press	. Diff.	1		Temp.	Press.	Temp.	Duration of Flow
SI	Size	S	ize	psig	h <sub>w</sub>	°F.	psig	°F.	psig	°F∙	Hr.
L.				367		56°	1048	56°	1048		7 days
2 <b>.</b> 3 <b>.</b>							367	<del></del>	960	<u> </u>	3 hrs
			···							<del> </del>	
<u> </u>		L									
	Coeffici	ont	<del> </del>				CULATIONS				
lo.					1	Fact	tor	Factor	Compre	ess.	Rate of Flow Q-MCFPD
	(24-Hou	<del></del>	√ h <sub>w</sub> r	of			t	Fg	Fpv		@ 15.025 psia
	12.365	<b>0</b>			379	1.00	39	0.9463	1.045		<del></del>
c	<del></del>										
•						<del></del>					
					PRE	ESSURE CA	ALCUTATIO	ns			
s Li	quid Hydro	carboi	n Ratio	)		cf/bbl.			fia Cmari	+:- Comm	rator Gas
avit	y of Liquid	d Hydi	rocarbo	ons_		deg.		Speci	fic Gravi fic Gravi	ty_Flow	ing Fluid
	<del></del>	<del></del>	(1	-e <sup>-s</sup> )		<del></del>		Pc	1060	_P2 <b>_2</b>	1123.6
_T_	P <sub>w</sub>					<del>- 1</del>	<del></del>	W	972	- <del>V</del>	944.8
0.		Ρŧ	F <sub>c</sub>	Q	$(F_cQ)^2$	(F <sub>c</sub>	$(Q)^2$	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	1. P.
	Pt (psia)					(1-	€-3)			P	Pw Pc
								<del>\.</del>	178.8		0.917
											_
bsol OMPA	ute Potenti	_	Union	190		_MCFPD;	n <u>o.</u> 8	35			
DDRE			815, P	erming	ton, New	Mexico					
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OMPA	NY					REMA	DVC				
						r.c.MA	CAR				
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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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{w}$  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<sub>DV</sub> 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  $P_{\mathbf{t}}$ .

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