MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Revis	ed	12	-1-	-55

Pool	ntere	Peak	Dakot	&	Formatio	n Da	kota			County	Sen J	1817	
Initi	al	X		_Annual_			Sp ecial			Date of	Test_	10-21-59	
Compa	ny Pan	Amer	ican P	etroleum	Corporat	ioneas:	e Kutz	Deen Te	st "D"	We]	l No	1	
Unit	<u>A</u>	S	ec. <u>27</u>	Twp	en _F	lge1	OM	Purcha	ser_Se	uthern Un	ion Gas	company	
Casin	g 4-1/ 2	. M.	t. <u>9.5</u>	I.D.	4.09 0 s	Set at	6575	Perf	643	8	To cir	(Abrasijet sumferential	out
					1.995 s								
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Produ	cing T	hru:	Casi	.ng	Τ	ubing	X.	ŗ	Type We	ell Single	e Gas	G.O. Dual	
Date	of Com	plet	ion: 1	0-8-59	Pack	er	None	Single H	e-Brade Reserve	enhead-G. oir Temp.	G. or 1506	G.O. Dual	
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Teste	d Thro	uøh		Chol	ке) (19000)					Type Tap	15		
				ow Data		<u> </u>		bing Da	+ 2	Casing I			
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No.	(Line Size		Siz		sig h _w	o _F	r. F	sig	o _F .	psig	∘F•	of Flo Hr.)W
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2. 3.						 							
5.						 							
<u>5. l</u>										L			
	Coef	ficie	nt	*****	Pressure		CALCULA low Tempo		ravity	Compre	ss.	Rate of Flow	
No.	1		$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$			Factor	Factor F _g						
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3.													
5.								二二					
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	y of L	_	-	carbons (l-e	-s)	c	leg.			fic Gravi		wing Fluid	
No.	P _w		$P_{\rm t.}^2$	F _c Q	(F _c Q)	2	$(F_cQ)^2$ $(1-\epsilon^{-s}$		P_w^2	P _c -P _w ²	Ca	al. Pw	
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1. 2. 3. 4.													_
<u>2∙</u> 4∙				 							 		
5.											<u> </u>		
	ute Por Ny Pan			6374 Petrolou	m Corporat	MCF	PD; n_	0.75					
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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 \subseteq 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.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize I}$ 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 $P_{\rm W}$ 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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