## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Pool Thisignated				Formation Dakete				County Sea Julia			
Init	ial		_Annu	al		Spec	ial		_Date of	Test 11	-160	
	any Temas											
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	ng 👫 W										)	
											35•	
Prod	ucing Thru:	; Cas	1ng	<del></del>	Tu	onng	Sir	Type we ngle-Brade	nhead-G.	G. or G	.O. Dual	
Date	of Complet	ion:			Packe			Reservo	oir Temp			
						OBSERV.	ED DATA			•		
Test	ed Through	(Prov	<u>er) (</u>	Choke)	(Meter)				Type Tap	s		
		F:	low Da	ata	5:00		Tubing	Data	Casing D	ata Term	Duration	
No.	(Prover) (Line)	(Cho	ke) ice)	Press.	Diff.						Duration of Flow	
	Size	Si	ze	psig	h <sub>w</sub>	o <sub>F</sub> .	psig		psig	F.	Hr.	
SI 1.							4770	<del> </del>	2714			
2.		3/4	<u> </u>	286		- 89			697		3 hrs	
3. 4.								1				
4. 5.												
						FLOW CAL	CULATION	IS				
No.	Coefficient			l l	Pressure Flow		Temp. Gravit		Compress.		Rate of Flow Q-MCFPD	
NO.	(24-Hour) √ h <sub>v</sub>		$\sqrt{h_{\mathbf{w}}}$	p <sub>f</sub> psia		Factor F <sub>t</sub>		Fg	Fpv		9 15.025 psia	
1.												
2. 3.	12,9650			290		.7613		9256	1.031		3451	
4. 5.												
5.						<del></del>						
					PR	ESSURE C	ALCU AT	CONS				
as L	iquid Hydro	carbon	Ratio	o		cf/bbl.					rator Gas	
ravity of Liquid Hydrocarbons(1-e-5					deg.			Specific Gravity Flowing Fluid Pc Pc Pc				
`c			·\	<u> </u>			•	- C				
	$P_{\mathbf{w}}$	2	Ť				- ,2		-2 -2		,	
No.	Pt (psia)	Pt <sup>2</sup>	F	c <sup>Q</sup>	$(F_cQ)^2$	(F	cQ) <sup>2</sup> -e-s)	$P_w^2$	$P_c^2 - P_w^2$	Ca P	1. Pw Pc	
1. 2.	Tt (pola)										<u> </u>	
2. <u> </u>	709							303	3425	<del></del>	1.1469	
4.			#							+		
5.	1k - D	3	424			MCFPD;	n.75	1,106	<u> </u>			
Abso	lute Porent	is ties	engl-	Petrolo	um Co.							
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WITN	ESSED	- <u></u> -	×	angue	1 /	Janes .					7//	
COMP	ANY					REM	ARKS				7 7 7 7	

## 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 I Actual rate of flow at end of flow period at W. H. working pressure ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 600 F.
- Pc= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}$  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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- $\mathbf{F}_{\mathrm{DV}}\mathbf{I}$  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  $P_{\mathbf{t}}$ .