## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revrised	12-1-55	)

Poo	l Booin	<u>Dakota</u>			Formation		Debots		_County_		<u> Ause</u>	
Ini	Initial Annual					Spec						
Com	pany <b>yau</b>	LICAL	retnes.		202.	Lease 🛻	Lleyes Gr	nyen Hel	We]	ll No	164	
Uni	t <u>m</u> S	Sec	15 Tw	p	Rg Rg	e. <u>13-4</u>	Purc	naser				
		<u></u>	<del></del>					4209-21°	/6232-42	To 🖎	-20'/4331-36'	
	· — •										6179'	
											ess. <u>19</u>	
Pro	ducing Thru:	Cas	sing		ru	oing	Sin	lype we gle-Brade	nhead-G.	G. or	G.O. Dual	
Dat	e of Complet	ion:	<u> 17</u>	. 19	Packe			keservo	ır Temp.			
						OBSERV	ED DATA					
Tes	ted Through	(Program	(	Choke					Туре Тар	os	Flance	
	(Prover)		low Da		s. Diff.	Temp.	Tubing Press.		Casing I		Duration	
No.	(Line)	(Orif	ice)	i		°F.			psig	1 -	of Flow Hr.	
SI	Size	Si	.ze	psi	g h <sub>w</sub>	·r.	psig		1950	1.	nr.	
1.	3 days	.7	30	342			243	649	638	605	3 hrs.	
2 <b>.</b>				<del> </del>						+		
4.												
5.		L		L		L				<u>.l</u>		
	Cooffici	ent 1	-	<del></del>	Pressure		CULATION		Compre	255.	Rate of Flow	
No.	Coefficient		, <u>.</u>	-1	:	Fac	Factor Facto		r Factor		Q-MCFPD	
	(24-Hou	r)	) \_\ h_wp		psia	F 000		.9258	F <sub>pv</sub>		@ 15.025 psia	
2.	1813000				254	1,000		• 7 • • • • • • • • • • • • • • • • • •	A19	<b>.</b>		
3. 4.												
5.												
					PR	ESSURE C	ALCUI <b>ATI</b>	ons				
Gas '	Liquid Hydro	carbon	Ratio	O		cf/bbl.		Speci	fic Grav	ity Sep	arator Gas	
Grav	ity of Liqui	d Hydr	ocarbo	ons		deg.		Speci	fic Grav	ity Flo	wing Fluid	
Fc		<del></del>	(.	1-e <sup>-8</sup>	<u> </u>		•	Pc	1966	Pc		
<del></del>	P <sub>w</sub>		<del></del>		<u></u>	<del>- 1</del>						
No.	•	Pt <sup>2</sup>	F	<sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup> (-e-s)	$P_{\mathbf{w}}^2$	$P_c^2-P_w^2$		al. Pw Pw Pc	
1.	Pt (psia)				<del> </del>		- 1	W. 300	3,442,6	16	P <sub>w</sub> P <sub>c</sub>	
1. 2.												
3. 4.												
5•									<u> </u>			
	olute Potent PANY	ial:	-lass	3863 Pelan		MCFPD;		<u> </u>				
ADD	RESS	DX 400			oo, Boy I	enies et Dorie		nginal sig	Ta UEN			
	NT and TITLE NESSED		5 be 1	*				G. W. Eaton	, Jr.			
COM	PANY					समा समा	IARKS			De No.		
						TULI	MILLO	1		San Send		
								-,			1	
								1	الثا		1	
									JUL SON.			
									JUL SOM	00lm.		

## 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 ( $P_W$ ). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw 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.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{W}$  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  $P_{t}$ .