## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Poo!	l <u>Basin Dakota</u> Formation <u>Dakota</u>						County San Juan				
Ini	tial <u>xx</u>	Ann	ual		Spec	ial		_Date of	Test_9	-10-62	
Com	pany South	ern Union	Producti	on Co. ]	Lease	Stat	<u> </u>	Wel	1 No. 1	- 16	
Uni	t <u>0</u> s	Sec. 16 T	Press. Diff. Temp. Press. Temp. Press. Temp. Duration of Flow								
Cas	ing 4½ W	t. 10.50	I.D. 4.	052 Set	at 7282	Fer	f. 7066		To 72	50	
Tub	ing <u>l<del>l</del></u> W	t. 2.75	I.D. <u>1.6</u>	10 Set	at 710	Olı Fer	f. 708	9	To 710	4	
Gas	Pay: From_	7066 To_	<b>72</b> 50	L 708	9 20	G •700	190	62	Bar.Pre	288. 12.0	
Proc	ducing Thru:	Casing_	معادسه مدروس	Tul	oing	XX	Type We	11 Sing	le Gas		
Date	e of Complet	ion: 8-1	0=62	Packer	r	Sing	;Le-Brade Reservo	nhead-G. ir Temp	G. or G	.O. DUAL	
Test	ted Through	(PANEL)	(Ehoké)	(MEKEY)				Type Tap	·S		
~	· · · · · · · · · · · · · · · · · · ·	Flow		T 5:00 [						Farmetion	
No.	(Line)	(Orifice)		<b>!</b>		1			l	of Flow	
SI	Size	Size	psig	h <sub>w</sub>	·F.					Hr. 7 days	
$\frac{51}{1.}$	211	3/4	204		58	1730 2014	68	1743 867	68	3 hrs.	
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<u>5.</u>				<u> </u>					<u> </u>		
						CULATIONS				7)-4	
No.	Coefficient		Pr	Pressure Flow		Temp. Gravit		y Compress. r Factor		Q-MCFPD	
	(24-Hou	r)   🗸 h	wpf	psia	Ft		Fg	Fpv		<b>@</b> 15.025 psia	
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4.							الله فعرب				
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				PRI	ESSURE C	alcui-atic	ns				
	Liquid Hydro			**************************************	cf/bbl.		Speci	fic Gravi	ty Sepa	arator Gas	
rav	ity of Liqui	d Hydrocar	bons(1-e <sup>8</sup> )		deg.		Speci	fic Gravi 755	ty Flow	ring Fluid 3080.0	
C			.(1-0 /_	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	پیدرسید کے بھید	•	- c	· <del></del>			
	Pw			· (Tell leve							
No.		Pt <sup>2</sup>	F <sub>c</sub> Q	$(\mathbb{F}_{\mathbf{c}}\mathbb{Q})^2$	(F	$(2)^2$	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca	Put Po	
<b></b> -	Pt (psia)	<b>-</b>			(1	-ε °)	72.6	2307.4	I	P <sub>0</sub> P <sub>0</sub>	
1. 2. 3. 4. 5.											
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	olute Potent		121		MCFPD;	n •75					
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0011	Ant		<del></del>		REM	ARKS			SEP17	1960	
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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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_{\rm C}$ I 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  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.
- $F_{t}$  Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n \_ 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  $P_{\pm}$ .