## Revised 12-1-55

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
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Poc	Pool Tapacito Pictured Cliffsormation Pictured Cliffs County Rio Arriba										
Initial X Annual Special Date of Test July 29, 1960											
Com	Company Southern Union Sas Company Lease Jicarilla Well No. 2-K								)-K		
Uni	t <u>i</u>	Sec	12 Tw	rp. 25	N Re	e. 5W	Pur	chaser_So	uthern Un	ion Gas	Company
Cas	Casing 43m Wt. 9.5# I.D. 4.090 Set at 3604 Perf. 3538 To 3574								3574		
Tub	$\lim_{n \to \infty} 1\frac{1}{2}$	Wt. 2.	<i>75#</i> _1	.D. 1.	.610 Se	t at3	5 <b>3</b> 4 Pe	erf. <u>35</u>	19	То	3534
Gas	Pay: From	<u> 3538</u>	To	3574	L	x	:G			Bar.Pre	ess. 12.0
Pro	ducing Thru	ı: Ca	sing_		Tu	bing	X	Type We	ell Gas	- Singl	6
Dat	e of Comple	tion:	July 2	22, 196	20 Packe	r	511	ngie-Brade Reservo	ennead-G. oir Temp	G. or G	i.O. Dual
						OBSERV	ED DATA				
Tested Through (Choke) (Mellist) Type Taps											
			Flow D				Mark day	g Data	i Conina D	10 ± 0	
	(Prover)	1 (Ch	LION D	TPress	Diff	Temp	Press	Temp.	Press	Tem	Duration
No.	(Line)	(Ori	fice)	11633	Dill			1		1	
SI	Size	S	Size	psig	h <sub>w</sub>	° <sub>F</sub> .		°F.	psig	°F∙	Hr.
21	<del></del>	+		310	<del> </del>		914	<del> </del>	971		7 Days
2.				210		<del></del>		<del> </del>	790	<del> </del>	3 Hours
1. 2. 3. 4. 5.		<del> </del>		<del>                                     </del>							
4.											
<u>5.</u>		ــــــــــــــــــــــــــــــــــــــ		<u> </u>				1		<u> </u>	
						DT OU. CAT.	OUT A TTO	10			
	Coeffic	ient	1			FLOW CAL			Compre	66	Rate of Flow
No.					essure	Fac	tor	Factor	Facto	r	Q-MCFPD
	(24-Ho	ur)	hwl	De l	psia	F.	+	Factor F <sub>g</sub>	Fpv		@ 15.025 psia
1	12,3650		V "		322	1.003		0.9463			
2.	12,5050	<del></del>	<del> </del>		222	1.00	-	0.3403	1.037		3,922
1. 2. 3. 4. 5.			1.								
4.											
<u>5.</u>			<u> </u>								;
					PR.	ESSURE C	alcurati	ONS			
~ n o T	Tiquid Urda	o o o mbo:	n Dati	•		of/bbl		Speci	fia Cmovri	tu Sana	matom Cas
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid											
		-	()	1-e <sup>-s</sup> )				P.	926	P <sub>c</sub>	ିମ୍
Ų——			·					Pw	802	Pw2	643
		<del>,</del>									
Ţ	$P_{\mathbf{w}}$		2   _		(F c)2	/_	2)2	<b>5</b> 0	$P_c^2 - P_w^2$		,   _
No.	D. (main)	P	$\bar{t} \mid F_{c}$	c <sup>Q</sup>	$(F_cQ)^2$		$\begin{pmatrix} c^{Q} \end{pmatrix}^2 \\ -\epsilon^{-s} \end{pmatrix}$	$P_{w}^{2}$	Pc-Pw	Ca	$\begin{array}{c c} P_{\mathbf{W}} \\ P_{\mathbf{C}} \end{array}$
<del></del>	P <sub>t</sub> (psia)	<del> </del>				(1	<u>-ε σ</u> /			P	w Pc
1. 2.		+		<del>-  </del>		-+				<del></del>	
<u>3.</u>		1			<del> </del>				<del></del>	<del> </del>	
4.										<del>                                     </del>	
5.											
Absolute Potential: 12,747 MCFPD; n 0.85											
COMPANY Southern Union Gas Company											
ADDRESS Box 800, Farmington, New Mexico AGENT and TITLE Thomas E. Fanno, Engineer											
	NT and TITL NESSED	L Thom	188 5.	ranno,	enginee	<u>r</u>	<del></del>				
MIII	wr. つつけ. L.L.										
COMI	PANY						·			<del></del>	



## 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 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- Fny 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  $P_{\mathbf{t}}$ .

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