Revised 12-1-55

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
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Pool	EASIN			_	Formation	DAKO	TA	County SAN JUAN					
Init	ial <u>xx</u>		_Annu	al		Spec	ial		_Date of	Te st	12-29	_61	
Company SOUTHERN UNION PRODUCTION CO. Lease ZACHRY Well No. 16													
Unit H Sec. 33 35 Twp. 29-N Rge. 10-W Purchaser Southern Union Gas Co.													
Casing 4 ½ Wt. 10.5 I.D. 4.052 Set at 6540 Perf. 6326 To 6522													
Tubi	ng 2 3/8 T	Wt. 4.	70 _I	.D. <u>1</u>	995 Se	t at 63	56 P	erf. 63	50	To	6356		
Gas :	Pay: From	6326	_ _{To_6}	522	L 6350)x	G •700		115	Bar.Pı	ress	12.0	
Producing Thru: Casing Tubing IX Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual													
Date	of Complet	tion:	12-21	-61	Packe	r	Si	ngle-Brade Reservo	nhead-G. ir Temp	G. or	G.O.		
						OBSERV	ED DATA						
Test	ed Through	(Prov	<u>ver) (</u>	Choke	(Meter	1			Туре Тар	s			
			low D		Tubir			ng Data Casing Data					
,,,		(Cho	oke)	Pres	s. Diff.	Temp.	Press	. Temp.	Press.	Temp.	•	Duration of Flow	
No.	(Divisi) Size		incer) ize		g h _w	°F.	psig	°F.	psig	[⊃] F.		Hr.	
SI							2010		2011			7 days	
1. 2. 3. 4.		3/	1	327	-	67	327		1295			3 hr.	
<u>3.</u>		 		ļ									
4.		+		┼							\pm		
				-		DI OU CAI	CIT ATTO	MC			•		
	Coeffic	ient	 		Pressure	FLOW CAL	m	Connection	Compre	ss.	Rate	of Flow	
No.	$(24-\text{Hour}) \sqrt{h_{\text{W}}p_{\text{f}}}$				Factor			Factor Factor Q-MCFPD 6 15.025					
-		ur)	$r)$ $\sqrt{h_{w}p_{f}}$						• Fg Fpv • 9258 1.03		3 1,001		
1. 2. 3. 4.	12,3650			339		.9933		.7230	9258 1.038				
3.											┼		
5.				+									
					PI	RESSURE C	ALCU AT	CIONS					
70 m T	iquid Hydr	ous shor	n Pati	0		cf/bbl.		Sneci	fic Gravi	itv Se	parato	or Gas	
	ty of Liqu		rocarb	ons_		deg		Speci	fic Gravi	tyFl	owing	Fluid	
c			([1-е ⁻⁸	•)		-	Pc_ 2	023	_Pc	0بل	92.5	
					_					- 			
No.	$P_{\mathbf{W}}$	P	2 F	r _c Q	(F _c Q) ²	² (I	$\left[\frac{c^{Q}}{c^{-s}} \right]^{2}$	P_w^2	$P_c^2 - P_w^2$		Cal.	Р <u>w</u> Рс	
	Pt (psia)	ļ				(1	e ^{-s})	1708.2		-	P _w		
2.		<u> </u>							2384+3			-646	
1. 2. 3.		ļ								-			
5.													
Ábso	lute Poten	tial:_		5840		MCFPD	n	.75					
	ANY South				tion Co.	ieo							
AGEN	T and TITL	E L. S	Mue			Producti	on Supt		inal Signed MUENNIN				
WITN	essed V. Pany Sout l	A. Rip	per	rodue	tion Co.			La S	5. NIUEININI	<u> </u>			
COM	ANI_DOUGH	TEXT OF	<u> </u>	Cauc	<u> </u>	RE	MARKS		19	MEI			
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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 I 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
- P_{t-} Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{W}}^{-}$ Differential meter pressure, inches water.
- F_g I Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- F_{pv} 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_{+} .