## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blande Mesa Verde					Formation Mesa Verde				County San Juan				
InitialAnnual				al	Special XX			<u> </u>	_Date of	Test_7	15-63		
Comp	pany <b>Sout</b>	thern U	nion P	roduct	ion Co.	Lease	Nordh	aus .	Wel	1 No	1		
Unit Sec. 13 Twp. 31-W Rge. 9-W Purchaser Southern Union Gathering Co.													
Casing 3-1/2 Wt. 9.20 I.D. 2.992 Set at 6040 Perf. 5236 To 6016													
Tubi	ing 1-1/2	.90 I.	.D. 1.	.610 Set	t at 5874 Perf.			<b>бы</b> то <b>587ы</b>					
Gas Pay: From 5236 To 6018 L 5364 xG .700 -GL 4105 Bar. Press. 12.0													
Producing Thru: Casing Tubing XX Type Well Single Ges													
	Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 6-25-63 Packer Reservoir Temp.												
	- 1	-					ED DATA	<del></del>					
Toet	ted Through	<b>****</b>	<b>1666</b> ) ((	Thoke)	(Madagar)				Туре Тар	) S			
Tested Through (Choke) (Lines)											<del></del>		
	(Proving	T 7Ch	Flow Dat		Diff		Tubing Data		Casing Data Press. Temp.		Durati	ion	
No.					1 }			l		1	of F	Low	
		Size Size		psig h <sub>w</sub>		°F.	psig	°F.	psig	°F.	Hr.		
SI	<del></del>	1				1	750		750		7 days		
1.	2#	3	/4	135		680	135	680	681		3 hrs.		
2.													
3.			<del></del>							<del>                                     </del>	-		
4.				<b></b>	<b> </b>			ļ		<del> </del>			
5.					Ll			<u> </u>	L	1	<u> </u>		
					1	FLOW CAL	CILATION	S					
$\neg$	Coefficient			Pr					ity Compress. Rate of Flow				
No.					1	Fact	tor	r Factor		r	Q-MCFPD		
-	(24-Hour) √ h <sub>w</sub>		Of	psia	Ft		$\mathbf{F}_{\boldsymbol{\sigma}}$	Fpv	1	<b>15.025</b> psia			
1.	12,3550				11.7 .9921			•5258	1.01		1697		
2.			<del> </del>	<del></del>	***								
3 <sub>e</sub>						المناسسي <u>س الكاميني</u> ية ( الد							
<del>1.</del> 1			<del> </del>										
<u>4.</u> 5.		<del></del>											
as I	Liquid Hydr	ocarbo	n Ratio	o		ESSURE CA	alcui <b>ati</b>	Speci	fic Gravi	ty Sepa	arator Gas_		
	ity of Liqu		rocarbo	ons		deg.	deg. Spec			ific Gravity Flowing Fluid			
`c			(]	1-e <sup>-5</sup>				P <sub>c</sub>	762	_Pc	200.3		
T	P <sub>w</sub>	<del>                                     </del>								7			
No.	- w	P	2   F.	Q	$(F_cQ)^2$	(F.	$(Q)^2$	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	l. P.		
	Pt (psia)		٠   ١	-	. 647	(1	$\frac{(Q)^2}{(e^{-s})}$	99		1	Pw Pc		
1.		<del> </del>						480.2	200.4		.909		
1. 2.													
3.													
3. 4. 5.		<u> </u>								<del>- </del>			
5.		<u></u>				د عبسی منت که پیدارور معنی			<u> </u>				
Abso	olute Poten	tial:		5 <b>328</b>		MCFPD:	n •75						
	PANY So	wther T			tion Co	•					-,·		
ADDRESS P. O. Box 808 - Farmington, New Mexico													
AGENT and TITLE Verme Rockhold - Jr. Sngineer													
WITNESSED Val Ripper - Production Superintendent COMPANY Southern Union Production Company													
COM	PANY	Journa	ern out	TON LAC	~100 61 <b>0</b> 11					1111 =			
001	New Mexic	n (H1 )	Conser	rat.ton	Commi ee	REM ion	ARKS	Well Re-	henlerni	ant I	& 1963		
<b>~</b> .	Mr. Paul Fir. Len	. J. Cl Mu <b>en</b> ni	o <b>te</b> nk	VAVI	~ ~==43,00.	mVså		··· Company of the Company	ing <b>ing ing ing in</b>		t con /		
	Mr. hudd												

## 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
- Pf Meter pressure, psia.
- $h_{\boldsymbol{W}}\boldsymbol{\Xi}$  Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv. Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .