## Revised 12-1-55

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
MODIT-LOTHI	DAUL	LITEROGUE	TINCI	ron	CAD	W DITTER

Poo	11	Basin Dakota Format				ation Dakota			County	54	n Jean		
Initial XX Annual Special Date of Test 1-16-63													
Com	pany	South	ura Un	ion P	roduc	tion	Co.	Lease	CIF	of Farmi	ngton Wel	Ll No	1-35
Unit A Sec. 35 Twp. 30-8 Rge. 13-W Purchaser Southern Union Cas Co.													
Casing 4-1/2 Wt. 10.50 I.D. 4.052 Set at 6468 Perf. 6214 To 6334													
Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6308 Perf. 6298 To 6308													
Gas Pay: From 6214 To 6334 L 6298 xG . 700 -GL 1409 Bar. Press. 12.0													
Producing Thru: Casing Tubing T Type Well Single Ges  Single-Bradenhead-G. G. or G.O. Dual													
Date of Completion: Packer Reservoir Temp.													
								OBSERV	ED DATA				
Tested Through (Choke) (Mater)  Type Taps													
	<del></del>		ī	rlow D	at.a				Tubing	Data	Casing I	)ata	
,,,			(Cho	oke)	Pres			1	Press	Temp.	Press.	Temp.	Duration of Flow
_	(Li Si	ine) ize	Si	ize	psi	g	h <sub>w</sub>	°F.			psig		Hr.
SI									1963		1969		7 days
1. 2.	20		3/	<u> </u>	<u> </u>			764	210	765	43	-	3 hrs.
3.					<del>                                     </del>								
4.													
5.			L		L			L	L	1	L	1	
								FLOW CAL					
							ı				Compress. Rate of Flow		
No.	(24-Hour) 7/h po				psia F+		tor	Factor Factor Q-MCFPD Fg Fpv 215.025 p			€ 15.025 psia		
7.1	<u>`</u>	2,365	2	V **	222			.9850		,9253	1,023 2561		2561
1. 2.													
3.													
<del>4.</del> 5.					+								
-6:-4							DD	pecume o	A COTT A FP3	LUNG.			
							PR	ESSURE C	ALCUIATI	LONS			
	Liquid							cf/bbl.					arator Gas
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid P. 1995 P. 3980.0									1980.0				
Fc(1-e <sup>-8</sup> ) P <sub>c</sub> P <sub>C</sub>													
т	D		<del></del>			<del></del>						<del>-                                    </del>	· · · · · · · · · · · · · · · · · · ·
No.	$P_{\mathbf{W}}$		P	2 F	Q <sub>o</sub>	(1	$(Q)^2$	(F	cQ) <sup>2</sup> -e <sup>-s</sup> )	$P_{\mathbf{w}}2$	$P_c^2 - P_w^2$		Pu Pc
	Pt (p	sia)				<u></u>		(1	_e <sup>-s</sup> )			1	
1. 2.						+				700,6	3279.4		.429
<u>3</u> .													
4.						1					<u> </u>		
5.						-					l		
Absolute Potential: 2961 MCFPD; n .75  COMPANY Southern Union Freduction Company													
ADDRESS P. O. Box 508 - Farmington, New Muxico													
AGENT and TITLE Verne Bookhold - Jr. Ingineer WITNESSED Val Ripper													
COMPANY Southern Union Production Company													
		<u></u>			<del></del> -	i			ARKS			JAN30	1963
											•	OPHINES CO	i. com./
											/0	DIST	r. 3

## 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.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}^{-}$  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.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{t}$ .