MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS													
Poo	ol Basin Dakota F					Formation Dakota				County San Juan			
Initial XX Annual Special Date of Test 2-28-62													
Com	pany_	Southe	ern Un	ion Pr	oduct	l <b>àn</b> Co.	Lease	Re	eid	Well	No	1-B	
Unit K Sec. 31 Twp. 29-W Rge. 10-W Purchaser Southern Union Gas Company													
Casing 4-1/2 Wt. 10.5 I.D. 1:052 Set at 6516 Perf. 6270 To 6474													
Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6314 Perf. 6308 To 6314													
Gas	Gas Pay: From 6270 To 6474 L 6308 xG .700 -GL 4416 Bar. Press. 12.0												
	Producing Thru: Casing Tubing IX Type Well Single Gas												
Dat	Producing Thru: Casing Tubing IX Type Well Single Gas  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: 1-7-62 Packer Reservoir Temp.												
	OBSERVED DATA												
Tested Through (Prover) (Choke) (Meter)  Type Taps													
			Flow D						g Data	Casing De	ta		
No		rover) ine)				1	Temp.	Press	. Temp.	Press.	i i	Duration of Flow	
NO.	•	line) Size	S:	ize	psig	h <sub>w</sub>	o <sub>F</sub> .	psig	o <sub>F</sub> .	psig	°F.	Hr.	
SI	_							2006		2009		7 days	
1. 2.			3/	4	237		58	237	63	1013	68	3 hrs.	
<del>2.</del> 3.			<del> </del>			+							
4.													
5•			<u> </u>		Ļ			<u> </u>				<u> </u>	
_				<u> </u>			FLOW CAL						
No.	Coefficient (24-Hour) $\sqrt{h_1}$				Pressure psia		Flow Temp. Factor Ft		Gravity Factor	Compres		Rate of Flow Q-MCFPD	
NO.				$\sqrt{h_{wl}}$					Fg	Fpv		● 15.025 psia	
1.			- V - V		249		.9924		•9258	1.027 2905		2905	
1. 2.													
3. 4. 5.									<del></del>				
5.													
	PRESSURE CALCULATIONS												
		Hydro					cf/bbl			fic Gravit			
Grav	ity of	Liqui	d Hydi	rocarb '	ons 1-e <sup>-8</sup> )	· · · · · · · · · · · · · · · · · · ·	deg		Speci P	fic Gravit 2021	P2 L	ring Fluid	
P <sub>C</sub> 2021 P <sub>C</sub> 4084.4													
	P <sub>w</sub>		2					. 2		_2 2	T		
No.	Dr (	neial	P	F	<sub>c</sub> Q	$(F_cQ)^2$	(1)	F <sub>c</sub> Q) <sup>2</sup> L-e <sup>-s</sup> )	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$		P <sub>W</sub> P <sub>C</sub>	
1.	15 (	Pt (psia)						/	1060.9	3023.5	<u> </u>	.510	
1. 2.													
3. 4.				_									
5.												T	
Absolute Potential: 3640 MCFPD; n .75 COMPANY Southern Union Production Company													
ADDRESS P. O. Box 808, Farmington, New Mexico  AGENT and TITLE Jr. Engineer Original Signed By													
WITNESSED Verne Rockhold VERNE ROCKHOLD													
COMPANY Southern Union Production Company REMARKS													
	-						KE	CANAM		MADE	1962		
									(	100 000		1	
OIL CON. COM.												/	

## 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<sub>c</sub>= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- $h_{\mathbf{W}}$ I Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .