								m 2200 64.6			Form C-122 Revised 12-1-55	
MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-52 Pool Basin Dakota Formation Dakota County San Juan												
Initial XX Annual Special Date of Test 1-22-64												
Company Southern Union Production Co. Lease STATE Well No. 2-16												
Unit N Sec. 16 Twp. 28-N Rge. 9-W Purchaser Kl Paso Natural Gas Company												
Casing 4-1/2 Wt. 10.50 I.D. 4.052 Set at 7148 Perf. 6886 To 7066												
Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6956 Perf. 6946 To 6956												
Gas Pay: From 6886 To 7066 L 6946 xG .730 -GL 5071 Bar.Press. 12.0												
Producing Thru: Casing Tubing XX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 1-11-64 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Choke) (MSSSS) Type Taps												
Flow Da			ata [Tubing	Tubing Data		ata			
No.	(Prover) (Line)				Diff.	'l'emp.	Press.	Temp.	Press.	Temp.	Duration of Flow	
110	Size			psig	h _w	°F∙	psig	o _F .	psig	°F.	Hr.	
SI	THE RESERVE OF THE PERSON NAMED IN COLUMN 1					7.1	1846		18l ₁ k	——— <u> </u>	11 days	
1. 2.	2**	3/4		290		630	290	680	1121		3 hrs.	
3.												
<u>4.</u> 5.									صيض حظييات	<u> </u>		
FLOW CALCULATIONS												
	Coefficie No. (24-Hour				Pressure		Temp.	Gra.vity	Compress.		Rate of Flow	
No.					psia		tor	Factor F _g	Factor F _{pv}		Q-MCFPD • 15.025 psia	
1.	12.3650		VWI		302	.9924			1.038		31.87	
2.												
3. 4.												
5.			<u> </u>									
PRESSURE CALCULATIONS												
las l	Liquid Hydro	ocarbo	n Ratio	<u> </u>		cf/bbl.					rator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1858 Pc 3452.2												
<u> </u>								•				
	$P_{\mathbf{W}}$	P	2 -		(0.0)2	/-	2	T. A	$P_c^2 - P_w^2$		l. Pu	
No.	Pt (psia)	Pi	t F	.Q	$(F_cQ)^2$		cQ) ² -e ^{-s})	$P_{\mathbf{w}}^2$	Pc-Pw	- i	1. P.	
<u> ;</u>								1283.7	2168.5		600	
2. 3.										1/1		
4.											AN 38 1964	
Absolute Potential: 4941 MCFPD; n .75												
COMPANY Southern Union Production Company												
	RESS P.								Signed By		New York Control of the Control of t	
AGENT and TITLE Verne Rockhold - Jr. Engineer VERNE ROCKHOLD WITNESSED Herman McAnally												
COM	PANY E1	Paso N	atural	Gas Co	ompany							

REMARKS

New Mexico O.C.C.

Mr. Paul Clote

El Paso Natural Gas Co. Proration Dept.

P. O. Box 1192, El Paso, Texas

Mr. H. L. Kindricks, Box 990, Farmington, New Mexico
File

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_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.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fnv 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_{+} .