											_	OTTH U-122	
				MULTI-	POINT BA	CK PRES	SURE TEST	FOR GAS	WELLS		Revise	d 12-1-55	
Pool Formation Picture Cliff County Rio Arriba													
Initial X Annual Special Date of Test 3/23/64													
Company E. L. Fundingsland					Lease Sunico				Well No. 11				
Unit	Unit SW Sec. 23 Twp. 25 N Rge. 2 W Purchaser El Pasc Natural Gas Company												
Casing 4 1/2 DD Wt. 9.5 I.D. Set at 3540' Perf. 3461 To 3461													
Tubing Wt. I.D. Set at Perf. To													
Gas Pay: From To L xG .680 -GL Bar.Press. 12 psia													
Producing Thru: Casing XX Tubing Type Well Single  Single-Bradenhead-G. G. or G.O. Dual  Producing Thru: Casing XX Tubing Type Well Single Sin													
Date of Completion: Packer None Reservoir Temp.													
Date	OBSERVED DATA												
	(Prover)		Plow D		Diff.	Тешр.		Temp.	Press.	Temp.	†	Duration	
No.	(Line)	(Ori	fice)			o <sub>F</sub> .	p <b>sig</b>		psig	l	1	of Flow Hr.	
	Size	S.		barg	11W		824		824		<del> </del>		
SI 1.		.750		162		58*	220		162	58*	3 hrs.		
2.													
3.						· 				<b> </b>	╄		
4.		<del> </del> -							· · · · · · · · · · · · · · · · · · ·		1		
5.		<u> </u>	<del></del>	<u> </u>					<u></u>	<u> </u>			
	FLOW CALCULATIONS    Coefficient   Pressure   Flow Temp.   Gravity   Compress.   Rate of F										of Flow		
No	No. Coefficient (24-Hour		/		essure		tor	Factor	Factor F <sub>pv</sub>		Q-MCFPD 15.025 psia		
NO.					psia		't	Fg					
1.	10.065		- V W-1		174 1.00				1.018		2061		
2.	<u> </u>												
3.						, <u>.</u>							
4. 5.			<del> </del>	+-									
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid  F_c(1-e^{-8})													
	$P_{\mathbf{w}}$		2		4 >2	,	- 0,2	D 0	$P_c^2 - P_w^2$	ے ا	al.	Þ	
No.	Pt (psia)	P.	$\frac{2}{t}$   F	r <sub>c</sub> Q	$(F_cQ)^2$		$(c_{\mathbf{c}^{\mathbf{Q}}})^2$	$P_{\mathbf{w}}^2$	"		P <sub>w</sub>	P <sub>w</sub> P <sub>C</sub>	
-	rt (psia)					<del></del>	5	3,824	645, 072			. 270	
2.										<b>_</b>			
3.							<del></del>		<del> </del>				
1. 2. 3. 4.			+-										
Absolute Potential: 2201 MCFPD; n .85													
ADDRESS													
AGENT and TITLE Albert S. Johnson Albert S. Johnson													
WITNESSED Corporation (RULL)													
COM	IPANY						MARKS		<del></del>	ADR3	1964		

## 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 = Actual rate of flow at end of flow period at W. H. working pressure ( $P_W$ ). MCF/da. @ 15.025 psia and 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{w}$  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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{\mathrm{DV}}$  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  $P_{\mathbf{t}}$ .