## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	l Bal	lard		_For	mation_	Pict	ured Cl	iffs	_County	Rio A	rriba	
Initial X Annual Special Date of Test 11-10-62												
Com	pany J.G	regory	Merrio	3 & /	Assoc	ease	Edna		Well	No1	<u> </u>	
Unit H Sec. 7 Twp. 24-N Rge. 6-W Purchaser El Paso Natural Gas Co.												
Cas	ing2-7/8	Wt. 6.5	I.D.	· ·	Set	at_25	<b>26</b> Pe	rf. 229	r8	o_231	18	
Tubing none Wt. I.D. Set at Perf. To												
Gas Pay: From 2296 To 2324 L 2300 xG 0.65 -GL 1495 Bar. Press. 12												
Producing Thru: Casing X Tubing Type Well G. O. Dual  Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 10-21-62 Packer none Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. 100°												
OBSERVED DATA												
Tested Through (Choke) (Choke) (Type Taps												
Flow Data						<del></del> -1	Tubing	Data	Casing Data			
No.	(Prover) (Line)	(Chol	ke) Pre	88.			Press.	Temp.	Press.	Temp.	Duration of Flow	
7	Size					1			psig		<del></del>	
SI 1.		3/4	15	9	-	50	-	-	159	50	3	
1. 2. 3.												
4.												
5.												
FLOW CALCULATIONS												
No.	Coefficient (24-Hour) √ h <sub>w</sub> p <sub>f</sub>			Pres	ssure	Flow	Temp. Gravity		Compress.		Rate of Flow	
	(24-Hour) $\sqrt{}$		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	h <sub>w</sub> p <sub>f</sub> psia		Ft		Fg	F <sub>pv</sub>		@ 15.025 psia	
1. 2.	12.365		**	]	71	1.009	6	0.9608	1.018		2088	
3.								······································				
4. 5.				-								
2:1	<del></del>			<del></del>	<u> </u>	<del></del>						
					PRE	SSURE CA	ALCUIATI	ONS				
	iquid Hydr					cf/bbl.		•		•	rator Gas	
	ty of Liqu 5.551		carbons_ 1-e-	·s) (	.103	deg.				y Flow: Pc hh	ing Fluid	
·			·					- 0		. C.—.		
	P <sub>w</sub>	7	T	<del></del>			2		2 0	<del></del>		
No.	Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	(	$(F_cQ)^2$	(F.	<sub>cQ)</sub> <sup>2</sup> -e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca. P.	l. Pw Pc	
1. 2.	171	29.24	1 11.5	9	134.3		.83	43.07	107.83	208	M	
2. 3.												
4.												
5.												
Absc	olute Poten				A. A.		n 0.7	5	<del></del>			
ADDR	ESS		egory M P. O. E					w Mexico				
AGENT and TITLE / Operator												
COMF	ESSED PANY	YJueg	1003 Y	Ner	rion			· · · · · · · · ·		<del>,</del>		
- 0111		<del></del>				REM	ARKS		ACII A		<del></del>	

## 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<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.
- $P_{\rm wT}$  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.
- $h_{\mbox{\scriptsize W}}\mbox{\small I}$  Differential meter pressure, inches water.
- $F_g = Gravity$  correction factor.
- $F_{t}$  Flowing temperature correction factor.
- $F_{DV}$  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  $P_t$ .