## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool _	Under	ignat	ed	Fc	ormation	Da	keta		County_	San	Juan
Initia	1 <b>X</b>		Annu	al		Spec	ial		_Date of	Test	9/16/60
Compan	y See	thwes	t Produ	ction 6	<b>.</b>	Lease	Holloway	Federal	We	ll No	4
Unit _	G	_Sec	<b>7</b> _Tw	rp. 271	Rg	e. 11W	Purc	haser_	El Paso	Natura	Gas Company
Casing	<u>5}"</u>		15.5 I	.D. 4.9	<b>90</b> Se	t at 65	<b>54</b> Pe	rf. 644	14	To 64	72
Tubing	2 3/8	Wt.	4.7 I	.D. 1.9	<b>795</b> Se	t at 64	<b>78</b> Pe	rf		To 647	78
											ess. 12.0
										_	
Date o	f Comple	etion.	9/7/	60	Packe	r	Sin	gle-Brade	enhead-G.	G. or	G.O. Dual
Dave 0	1 Compt	501011.					ED DATA		, 10 mp •		
	<b></b>	/name		a	/100000 Table		ED DATA		m m.		
l'ested	Through	n (22)			(MALAR)				Type Ta		
	(Prover	)   (c	Flow D		Diff.	Temp.	Tubing Press.		Casing Press.		Duration
	(Line) Size	(-6				$\circ_{\mathtt{F}}$	psig		psig	∍ <sub>F</sub> .	of Flow Hr.
SI			5126	260	11-W	r•	2070		2070	1	7-days
2.			3/4"	260		79	260		540		3-hr.
3.										<del> </del>	
+• 5•		+		<del> </del>							
						FLOW CAL	CULATION	S			
. [	Coeffic	cient		Pr	ressure	Flow	Temp.	Gravity			Rate of Flow
No.	(24-Ho	our)	$\sqrt{h_W}$	Pf	psia		tor	Factor F <sub>g</sub>			Q-MCFPD @ 15.025 psia
	2.3650		<u> </u>		272	.982	- 1	.9463	1.0		3,207
3.			+					<del></del>	<del>-  </del>		
			<del></del>		DD.	ESSURE C	A CCITI ATT	ONS		· · · . · . · . · · · · ·	
									<b>a:</b> - <b>a</b>	: A C	
	s Liquid Hydrocarbon Ratio avity of Liquid Hydrocarbons_			ons	cf/bbl.			Specific Gravity Separator GasSpecific Gravity Flowing Fluid			
	<del></del>		(	l-e <sup>-s</sup> )				_	2070		4284.9
Т Б	<del></del>	- 1				<del></del>	<del></del>	P <sub>W</sub>	272	Pw <sup>2</sup>	739.8
Vo.			$P_{t}^2 \mid F$	cQ	$(F_cQ)^2$	(F	cQ) <sup>2</sup> -e-s)	$P_w^2$	$P_c^2 - P_w^2$		Pw Pc
P	t (psia)	<del> </del>					<u>-e-s)</u>	739.8	3545.1	<del></del> '	P <sub>w</sub> P <sub>c</sub>
		-									
							78		<u> </u>		
OMPAN'	te Poter Y <b>Sov</b>	Lhoust	Produc	tion Co	пралу		n75				
DDRES GENT	S and TITI	162 Pe	tr. Cer George	ter Ble	ig., Faz fman - I	mington, reductio	New Mex	ieo n			
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OMPAN	1 <u></u>		7.1		<u></u>	REM	ARKS		/4	ירווא	
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## 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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P<sub>C</sub>= 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.
- $h_{\mbox{w}}$  Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{pv}$  Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .

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