## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Eumor	nt	F	ormation	Yate	30		_County	Lea	
Initi	ial	Ann	ual		Spec	ial	<u> </u>	_Date of 5	rest_ <u>5-3</u>	to 5-10-63
Compa	any She	ell 011 Con	p <b>any</b>		Lease	State	C	Well	l No	2
Unit	s	ec. 24 T	wp. 218	Rg	e351	Purcl	naser_ <b>E</b> 1	Paso Natu	ral Gas	Company
										406
										ss. <u>13.2</u>
Produ	icing Thru:	Casing_		Tu	bing	X Cim	Type We	ell si	ngle	O Dual
Date	of Complet	ion: May 2	5 <u>. 1957</u>	Packe	r None		_Reservo	oir Temp	J. OF G	-U. Duai
						ED DATA				
Teste	ed Through	(Present)	(Links)	(Meter)	1			Type Tap	s Fl	<b>34.</b>
		Flow	Data			Tubing		Casing Da	ata	
No.	(Line)	(Chalce)	Press	Diff.	1	ł			! 1	Duration of Flow
	(Line) Size	Size	psig	h <sub>w</sub>	°F.	psig	°F.	psig	<sup>⊃</sup> F•	
SI l.		1.500	560	7.29	89	830 812		830 817		72 24
2.	4	1.500		18.49		795		807		24
3.	4	1.500	585	26.01		778		795		<u> 24</u>
4. 5.	4	1.500	594	33.64	80	762		786		24
		<u> </u>				A.T. I. M.T.O.I.	G		-	
	Coeffici	ent	P	ressure	FLOW CAL	CULATION Temp.	S Gravity	Compre	ss.	Rate of Flow
No.	(0) ==	\ /-		• _	essure Flow Fac		Factor	Facto	r	Q-MCFPD
<del>-</del>		$r)$ $\sqrt{n}$	w <sup>p</sup> f	psia	072	t	.9463	1,055		878.0
1. 2. 3. 4.	13.99 13.99	102		372.2 573.2	.973		.9463	1.056		1.411
3。	13,99		.74	598.2	.980	4	.9463	1.059		1,714
4.	13.99	142	.92	607.2	.981	3	.9463	1.059	-	1,966
las Li Bravit	iquid Hydro ty of Liqui <b>Massured</b>	d Hydrocar	bons 💃	CV	cf/bbl.		Speci Speci		ty Flow	rator Gas .670 ing Fluid Mone 711.0
No	<b>24</b> ,	P <sub>t</sub> <sup>2</sup>	r O	(F <sub>c</sub> Q) <sup>2</sup>	2 (F	, 0)2	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	Ca	1. P.,
No.	Pt (psia)	't	F <sub>c</sub> Q	(1. Ges)	(1	(cQ) <sup>2</sup> (-e <sup>-s</sup> )			P	w P <sub>C</sub>
1. 2.	825.2 808.2	660.9 653.2		nasured			689.2 672.7	21.8 38.3	830.	
3. 1	791.2	626.0					653.2	57.8	808	2 95.8
4.	775.2	600.9					638.7	72.3	799	2 94.8
COMPA ADDRI AGEN'	ESS T and TITLE ESSED	Shell P. O.	Ellerd	B. Rosses - Cas Te	MCFPD;	Maxica /	.530			
					REM	MARKS				

## 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<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. 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.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv- 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  $P_t$ .

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