## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	1	ldcat			_Formatio	n_Ballar	d Pictu	red Cliffs	County	Sande	val	
											ct. 12, 1959	
											2	
Uni	t <u> </u>	_Sec	35_Tw	/p <b>2</b> ;	<b>3N</b> R	ge <b>3</b> W	Pui	chaser <u>El</u>	Paso Nati	ural Ga	as Company	
Cas	ing 43"	Wt.	9 <b>.5#</b> ]	.D	<b>4.090</b> S	et at 2	8 <b>42'</b> F	erf. 2	755	То	2773	
	ing <b>2</b> "							——————————————————————————————————————	<del>-</del>			
											ess. 11.3	
										-		_
Date	ducing Thr	etion•	*	2 10	nse Packe	er a 170	Si	ngle-Brade	enhead-G.	G. or	G.O. Dual	_
Dao	or compr	· • • • • • • • • • • • • • • • • • • •	ian	<u> </u>	936 1 ack				orr remb•	<del> </del>	<del>- , - <u>, - i - , - , - , -              </u></del>	
m+		(D	\ (	01 I	) (M		ED DATA	•				
Test	ed Through				(Meter	<u>)</u>			Type Tap			_
	Daeres		Flow D		s. Diff	. Temp.	Tubin	g Data Temp.	Casing D	Temp.	Duration	
No.	(Line)		fice)		,3.	•	11033				of Flow	
r	Size	S	Size	psi	g h <sub>w</sub>	° <sub>F</sub> .	psig	°F.	psig	<sup>⊃</sup> F•	Hr.	_
SI l.	2	<del></del>	3/4	11:	2	62°	606	62°	Packer Packer	<del> </del>	3 hours	4
2.			3/4			02	113	02	racker		J nours	1
3. <u>4.</u>		<del></del>										4
5.						<del>                                     </del>		<del></del>	<u>                                     </u>	<del> </del>	<del> </del>	┪
										<del>'</del>	<del></del>	_
-т	Coeffic	cient	<del>                                     </del>		Pressure	FLOW CAL		NS Gravity	Compre	55.	Rate of Flow	٦
No.	(24-Hour)					Fac		Factor			Q-MCFPD	
			$r) / \sqrt{h_{W}}$		psia	F	t	Fg	Fpv		@ 15.025 psia	
1. 2.	12.365				124.3	- 9981		.9393	1.0	13	1460	4
3 <sub>e</sub>			<b></b>			<del></del>			<del>-  </del>		<del></del>	┥
4. 5.												J
<u> </u>	·		<u> </u>									'
					PF	RESSURE C	alcu at	IONS				
las I.	iquid Hydr	oca rho	n Reti	<u> </u>		cf/bbl.		Speci	fic Gravi	tv Sens	arator Gas	
	ty of Liqu		rocarb	ons		deg.		Speci	fic Gravi	ty Flow	ving Fluid	_
ˈc			(	1-e <sup>-s</sup>	)			Pc	617.3	_Pc	381.06	_
No.	$P_{\mathbf{W}}$	P	2 -	^	(E 0)3	(P	0)2	n o	$P_c^2 - P_w^2$	<u> </u>	J D	٦
No.	Pt (psia)	, P.	t   r	Q	$(F_cQ)^2$	(1	c <sup>Q</sup> ) <sup>2</sup> -e <sup>-s</sup> )	$P_w^2$	Pc-Pw		Pw Pc	
Ţ.								15,45	365,61		201	╛
1. 2. 3. 4.	<del></del>	+		<del></del> -				<del></del>		<del> </del>		┨
4.										<del></del>		╛
5.												
	lute Poten			1,512	2	MCFPD;	n	0.85				
ADDR:	ANY The ESS P C	Superio	or Oil	Compa	eny Colora	do						_
AGEN'	T and TITL	E	M. Bi	itta	n - Gas	Engineer	9ml	Sular				_
WITN COMP	ESSED			<del></del>				Zaril I	7			_
COM	ANI					REM	ARKS ,	SFI TIV	<del>[D]</del>			-
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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 ( $P_{\rm W}$ ). 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize }$  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  $P_{\mathbf{t}}$ .

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