MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS - Revised 12-1-55

Pool	For			ormation	ermation Yates			County Lea				
Initi	al		Annual			Spec	ial	<u>K</u>	_Date of	Test <u>5/</u>	6 - 5/10/	57
Compa	ny the blo	011 4	Refinin	g_Com	pany	Lease <b>M</b>	w Marcioo	State AA	Wel	1 No	1	
Unit		Sec. <u></u>	. qwT	23-1	Rg	e. <b>36-3</b>			Pago Natu	rel Ges	Co.	
Casin	g <u>70</u> V	√t <b>a</b>	<b>o_</b> I.D	. 6.4	<b>56</b> Se	t at <b>29</b>		.H. Me . <u>290</u>	9	То	32.30	
Tubin	g_ <b>2"</b> V	Vt. 4.	.7I.D	. <u>1.9</u>	<b>95</b> Se	t at 31	<b>07</b> Pe	erf. 310	2	To	31.06	
	ay: From											
Produ	cing Thru:	: Cas	sing		Tu	bing	K	Type We	ll Single	•		_
Date	of Complet	cion:_	6-15-50		Packe	r Hone	Sir	ngle-Brade Reservo	nhead-G. ir Temp.	G. or G	.O. Dual	
	_	_					ED DATA	<del></del>	_		-	
Teste	d Through	(Prope	<b></b> ) (£ <b>.</b>	<b></b> )	(Meter)				Type Tap	s <b>M</b> a		
			low Dat			· 	Tubing	nata .	Casing D			
No.	(Line)	(E)	) P		Diff.	Temp.	Press.			Temp.		tion Flow
NO .	Size	1 '	Cice)	psig	h <sub>w</sub>	°F.	psig	°F.	psig	o <sub>F</sub> .	Hr	
SI		0.84		F04		74	600				72	
1. 2. 3.		0.500		598 A.O 584 12.96		76	586				24	
<u>3.   </u>		0.50		275	32.49	76	564				24	
4. 5.		0.50	0	544	43.56	76	550	<del> </del>			24	
		<del> </del>	<del></del>		<del></del>			<del></del>	<del></del> _	<del></del>	<u> </u>	
	Coefficient			Pr	FLOW CALCULATI Pressure Flow Temp.				Gravity Compress. Rate of Flow			
No.	(24-Hour) -		<u></u>	/ <del></del>					Factor		Q-MCFPD	
i	<del></del>		√ h <sub>w</sub> p <sub>f</sub>		psia	Ft		Fg	Fpv		@ 15.025 psia	
1. 2. 3.	1.525		-48 4 -4-4		11.2	0.9068	<del></del>	0.9535	1.06		75	
<del>~•</del> -	1.525				75.2	0.9650 0.9650		0.9535	1.05			
4. 5.	1,525		156.35		61.2	0.9850		0.9535	1.053		236	
PRESSURE CALCULATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid c												
No.	Pt (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q		$(F_cQ)^2$	(F,	c <sup>Q</sup> ) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca P	l. Pw Pc	
1. 6	13.2	376.0	0.74		0.555		073	376.1	13.5	613.3	0.000	
	77.2	_359.0 _333.4			1.745		229 554	359.3 333.8	30.3 55.8	599.4 577.7	0.92	<u></u>
	63.2	317.2		• .	5.499		720	317.9	71.7	563.8	0.90	
										<u> </u>		
Absolı COMPAN	ute Potent	_		<u> </u>		MCFPD;	n0	7166	<del></del>			
ADDRES	SS <b>D</b>	A. Ree	2317		Company	,						
	and TITLE	J.B. C	an Shie	ube	wik		strict S	uperinten	dent			
WITNES COMPAN		Southe				<del></del>						
OOPH A	'	L Page	Matura	LUGS	LU04	RFM.	A RKS	<del></del>	<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 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\rm t}$ .