1

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

Pool	Besin	Dakota		F	ormation_		Dakota		_County	Sen .	ruan	<del></del>	
												1961	
Unit	×	Sec.	20 Tw	o	Rge	. 12W	Purch	naser El F	aso Matur	ral Gar	Сопра	ny	
					<b>)00</b> _Set								
Tubii	ng <b>2 3/8</b>	Wt.	4.7   I	D.2.0	000 _Set	tat_62	84 Per	rf. Open 1	inded.	To			
Gas :	Pay: Fr	om <b>631</b> 6	To	6445					Bar.Press.				
Prod	ucing Th	ru: C	asing		Tul	oing X		Type We	lBingle (	ies _	(arp)		
Date	of Comp	letion:	5-14-	61	Packer	r	Sin	gle-Brade Reservo	enhead-G. oir Temp.	G. ør	PAPI		
Date	01 00=			·	<del></del>	OBSERV	ED DATA			in	14,27	(0)	
<b>m</b> +	ad Mhaan	ah <b>Yérs</b>	punewar) (	<sup>a</sup> hoke	Xeeeex	,			Type Tar	os		1951 ]_	
Test	ed Inrou	RII VIII	Flow D				Tubing	Data				·/M	
$\neg \tau$			hoke)		s. Diff.	Temp.		Temp.	Casing I			Duration of Flow	
No.	(Line Size		Size	   psia	g h <sub>w</sub>	°F.	psig	°F.	psig	°F∙		Hr.	
SI				005		85	1862 285		1864 732			shut in	
1. 2. 3.			750	285		0)	20)	0)	1,34	1			
3.										<del> </del>			
4. 5.										1			
							CULATION					0 173	
No	Coefficient				Pressure	Flow Fac	Flow Temp. Gr Factor F		Compr	ress. Rate of Flow tor Q-MCFPD			
110	(24-Hour) $\sqrt{1}$		$\sqrt{h_{W}}$	n <sub>w</sub> p <sub>f</sub> psia		F	't	Fg	Fp <b>v</b>			@ 15.025 psia <b>3,589</b>	
1.	12.365			297		.9768		.9798	1.02	1.021 3,585		<del>70y</del>	
1. 2. 3. 4.													
5.													
					PR	ESSURE (	CALCULATI	ONS					
7a - T	ianid Ur	rd no o a nh	oon Rati	^		cf/bbl.		Spec	ific Grav	ity Se	parato	r Gas	
Gas Liquid Hydrocarbon RatioGravity of Liquid Hydrocarbons(1_e				ons		deg		Spec	ific Grav 1876	itv Fl	owing :	owing Fluid	
<sup>ਰ</sup> c			(	.1 <b>-</b> e−5			<b>-</b>	rc	2010	+ c	37-731	<del></del>	
	$P_{\mathbf{w}}$						.2		_2 _2			<b>n</b>	
No.	Pt (ps:	ا ( د ز	$P_{\mathbf{t}}^2 \mid \mathbf{F}$	cQ	$(F_cQ)^2$	(1	F <sub>c</sub> Q) <sup>2</sup> 1-e <sup>-s</sup> )	$P_w^2$	$P_c^2 - P_w^2$	·	Cal. Pw	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
1.	1¢ (ps.	La)						553536	2965840				
1. 2.					<del> </del>						<u>_</u>		
3. 4. 5.										_			
				-0-	<del></del>		78		<u> </u>				
	olute Po PANY	cential		080 11 Pro	Production Company								
ADDI	RESS		10	41 Zw	buni Drive Farmington, New Mexico								
	NT and T				Neely Tester d Smith								
	NESSED PANY		To	XVI P	astern Tr	ansmissi	on Corp.						
	n # 1435	 56		1.186		RE <b>7</b> 5	MARKS 1.136						

## 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 ( $P_W$ ). MCF/da. @ 15.025 psia and 600 F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- 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.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{DV}$  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  $P_{\rm t}$ .