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

Pool Basin Dakota					Formation Dakota					County Rio Arriba					
Init	ial Yes	1	Annual_			Spec	ial			_Date of '	Test	9-30-0	3		
Company Caulkins Oil Company					Y Lease Breech				Well No				<u> </u>		
Unit		Sec	Twp	<u> 26 1</u>	Rge	•• <u>6₩</u>	Pu	rchase	r <u>_</u>	1 Paso Nat	ural (	Ges Con	pany		
Casi	ng 510 I	Vt. 17.0	I.D.	4.9	9 <b>5</b> Set	t at	711	Perf	_741	6'	Го	7637			
	ng 2-3/8 I														
Gas	Pay: From	7416	To763	7	_L_ <b>_7</b> 3	<b>49</b> x	G <b>60</b> 0	2=	GL	4409	Bar.Pr	ess	12		
Prod	lucing Thru	: Casi	ng		Tul	oing	Yes	Ty	pe We	ell <u>Cas -</u>	Gas D	al D			
Date	of Complet	tion:	<u>7-18-63</u>		Packer	731	Ω	Re	servo	ir Temp	185	) p			
						OBSERV	ED DAT	A							
Test	ed Through	(Fritte	(Chol	<u>ce)</u> .	(NEKER)					Type Tap	ε				
	Flow Data						Tubi	ng Dat	a	Casing Da	ata				
No.	(Prover) (Line)	(Orifi	ce)			-		į		Press.	_		Duration of Flow		
SI	Size	Siz	e ps	sig	h <sub>w</sub>	°F.				<del></del>	<sup>⊃</sup> F•	<b>├</b>	Hr.		
1.		3/4					2197 339		70 70	Picr Picr			flow .		
2. 3.												<u> </u>			
4. 5.		<u>i — — </u>								_		<del> </del>			
5.															
					I	LOW CAL	CULATIO	ONS							
No.	Coefficient		Pressure		Flow	Flow Temp.		vity	Compress. Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia				
	(24 <b>-</b> Ho	$_{\rm ir})$ $\sqrt{{\rm h_{w}p_{f}}}$		psia		Ft.		Fg							
1. 2.	14.1605				n		.9905		.000	1.00		5056			
3. 4.															
<u>4.</u> 5.					-								· · · · · · · · · · · · · · · · · · ·		
				<del></del>	זממ	ESSURE CA	A COTTE AT	TONC							
_		_					ALLOU'AL								
	iquid Hydro ty of Liqui		carbons			cf/bbl. deg.				fic Gravit fic Gravit					
c <b>_9</b>	402	<del></del>	(1 <b>-</b> e	·s) (	.274					2209					
No.	$P_{\mathbf{w}}$ $P_{\mathbf{t}}^2$		F <sub>c</sub> Q		$(F_cQ)^2$	(F	(FQ) <sup>2</sup>		2	$P_c^2 - P_w^2$	C	al.	p		
	Pt (psia)	(psia)				$\frac{\left(F_{c}Q\right)^{2}}{\left(1-e^{-s}\right)}$		P <sub>w</sub> 2		1 C - W	]	Pw	P <sub>w</sub> P <sub>c</sub>		
1. 2. 3.	351	123.201	9.402	22	256.2	618.	618.2		01	,138,280	8	51	389		
3. <b>1</b>				1											
4. 5.			+	+							<del></del>		·		
COMP ADDR AGEN	ESS <b>Box 7</b> T and TITAL ESSED	ins OII	ington	Net	Mexico	ntendent		18) <sup>n</sup> 1.	.1321						
					<del>_</del>	REM	ARKS								

## 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
- $P_{\mathbf{w}}^{-}$  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.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize I}$  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  $P_{\mathbf{W}}$  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  $P_{\mathbf{t}}$ .