## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo]	Jegia D	insta	Fo	rmation	lieket	<u> </u>		_County	Me AF	riba	
Init	ial	Annu	al		Spec	ial		_Date of	Test	8-7-63	
Company Combine Cil Company			Lease Brook *C*				Well No. 349				
Unit	. <u>L</u> s	ec. <b>13</b> Tw	p. <b>24.</b>	Rge	. <u>w</u>	Purc	haser	bern Uni	on Gas	Company	
Casi	ng 👪 W	t. <b>11.6</b> I	.D. 4.00	<b>©</b> Set	at 77	7Pe	rf. 739	<u> </u>	To <b>7</b> 5	76	
Tubi	ng <b>a ya</b> W	t. <u>4.7</u> I	.D. 1.99	<b>5</b> _Set	at 73	<b>10</b> Pe	rf. 73%	6	To 73	60	
Gas	Pay: From_	7350 To	7576	_L_735	<b>6</b> x	G .660		<u> </u>	Bar.Pre	ess	
Prod	lucing Thru:	Casing_		Tub	oing	708	Type We	11	lo Can		
	of Complet					Sin	gle-Brade	nhead-G.	$G_{\bullet}$ or $G$	.O. Dual	
					OBSERV	ED DATA		_			
Test	ed Through	(Andreas (	Choke)	(Messa)				Type Tap	3		
	(Prover)	Flow D	Press. Diff.				Data Temp.	Casing D	ata Temp.	Duration	
No.	(Line) Size	(Òrifice)		Į	o <sub>F</sub> .	psig			o <sub>F</sub> .	of Flow Hr.	
SI	PIZE		psig	h <sub>w</sub>	Г•	2398		psig	F •		
1. 2.		3/4*				680	70	1300	<del> </del>	3 82.	
2. 3.											
4. 5.											
<sub> </sub>	Coeffici					CULATION		Company		Rate of Flow	
No.	(24-Hou	.   /		İ	Fac	tor	Factor	Factor		Q-MCFPD	
1.	14-1005	r) $\sqrt{h_W}$	~ 1 T	osia	.9903		F <sub>g</sub>	F <sub>pv</sub>		@ 15.025 psia	
1. 2. 3. 4.											
4.											
				PRE	SSURE C	ALCULATIO	ONS				
as L	iquid Hydro	carbon Rati	0		cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas	
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc Pc										ring Fluid	
C	······································	\	<u> </u>		<del></del> _		- c	<del></del>	0		
No.	$P_{\mathbf{w}}$	Pt F	<sub>c</sub> Q	$(F_cQ)^2$	( 0	0)2	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	1. Pw	
	Pt (psia)	't r	c.	(rc@)	(1	$\left(\frac{c^{Q}}{e^{-s}}\right)^{2}$	¹ w~ _ <b>-037_&amp;&amp;&amp;</b> *	1 C 1 W		$\frac{P_W}{P_C}$	
1. 2. 3.											
3. 4. 5.									<del></del>		
	lute Porent	ial. 13,6	53		MCFPD;	" (1.53	)* 1.379	6	<u> </u>	L	
COMP ADDR	ANY	CALL Comp		/	PIOP PU;	11					
AGEN	T and TITLE	Frau	h)/a	say					141		
COMP									FILL!	1967	
	PDV Coasi	ng Tyonauro	used fr	er by 74	Lee. REM	ARKS		\ (	METO		
								/@	IIL DIS	7.3	

## 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 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_w$  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  $P_t$ .