## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool _	Wi	ldcat			Formation	n	Bend		County	Lea	<b>4</b>
Initia	tial X Annual			ual	Special				Date of	Test	6-14-63
Compar	ıyJake	2 L. F	lamon			Lease	N. E. L	ynch Unit	Wel	l No.	1
									,659		13,774
									en End		
											ess13.2
										-	
Date o	f Complet	ion:			Packe	r Rakes	Sir r Model 1	gle-Brade	ell enhead-G. oir Temp.	G. or C	G.O. Dual
	- 00mp100				T G C R C		ÆD DATA	neser ve	orr remb.	<u>+</u>	(3°F
most od	The manuals	<del>(</del>		<u></u>	h /26-4\		LED DATA				
Tested Through (Meter) Type Taps Fla										Plange	
<del>- , -</del>	<del>(=</del>		Flow D		1			Data	Casing D	<del></del>	
vo.	(Line)		fice)	Press	Diff.		Press.	Temp.	Press.	1	Duration of Flow
,_	Size	S	ize	psig	h <sub>w</sub>	°F.	psig	<del></del>	psig	<sup>⊃</sup> F•	Hr.
SI	3	ļ <del>,</del>	27/	500	+		4728	82	Packer	ļ	74 Hr
2.	3		3/4	580 580		77	1847 2335	85 82		ļ	3.5
3.	3		3/4	575		71	3135	82		<del> </del>	2.5 1.5
	3		3/4	585		71	3626	82		<del>                                     </del>	2.0
· .										<u> </u>	
						FLOW CAL	CULATION	S			
	Coeffici				Flow Temp.		Gravity	Compress. Rate of Flow		Rate of Flow	
0.			<i>-</i>			Factor		Factor	or Factor		Q-MCFPD
						Ft		r'g	F <sub>pv</sub> @ 15.025		@ 15.025 psia
	20.15		157.843			.9840		.942	1.064 1061		3,136,8
•	20.15 20.15		139.913			.9896		.942	1.068 / (4		2.806.8
<u>c</u>	20.15			462	548 2	.9896		.942	1/.068		2.600-0 2/67
2. 3	20.15		88.	185	27 1	<b>.98</b> 96		.942	1.06	<b>8</b> 1.064	1.769.17.3
avity	uid Hydrod of Liquid	d Hydr	rocarbo	ons	7,961	cf/bbl.	ALCU ATI	Speci Speci	fic Gravit	ty_Flow	rator Gas <u>.676</u> ing Fluid <u>.757</u> <b>28.934</b>
P <sub>v</sub>	v	P <del>í</del>	F <sub>c</sub>	.Q	$(F_cQ)^2$	(F	cQ) <sup>2</sup>	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal	1. P.,
Pt	, (psia)					(1	_e-s)		C W	P,	w Pc
•								6,922	22,012	263	1
								10.017	18,917	316	
<del>.</del>			_					15.062	13.872	388	
								18,706	10,228	432	.5
bsolut	e Potenti	al:_	3	,850		MCFPD;	n	57			
UMPAN Y UDDRESS	West	Texas	Engin	eering	Service	Inc.					· · · · · · · · · · · · · · · · · · ·
CENT a	nd TITLE	B II	4456	- Mid	and, Tex	Detro1-	um Paci-				
TINESS	ED	A. W	. HALL	TIRCOL	r - Liero	retroie	eum Engin	eer			
OMPANY						<del>- , , </del>			· · · · · · · · · · · · · · · · · · ·		
						REMA	ARKS	***************************************			

P<sub>C</sub> & P<sub>w</sub> were calculated as shown on the attached sheets.

## 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<sub>w</sub>). MCF/da. @ 15.025 psia and 60° F.
- Pc 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .