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

Poo	1 ingel Pe	ak-Dakot	8	_Formation	1 Delce	rta	<del></del>	_County_	Sen h	<b>A</b> 1	
Ini	tial	A	nnual_		Spec	ial		_Date of	Test	ly 23, 1959	
Com	pany <b>Pan Ame</b>	rican Pe	trolom	Corp.	LeaseJ	F. Da	A nDn	Wel	1 No	1	
Unit B Sec. 20 Twp. 25 Rge. 10 Purchaser Southern Union Gas Company											
Cas	ing <u>4-1/2</u> W	t. 15.5	I.D.	950 & 5.012 Se	t at_664	<b>51</b> F	erf6	54.7	To	592	
	ing <b>2-3/8</b> W									* •	
	Gas Pay: From 6547 To 6592 L 6531 xG 0.70(est) -GL 4572 Bar.Press. 12										
Producing Thru: Casing Tubing I Type Well Single Gas  Single-Bradenhead-G. G. or G.O. Dual											
Date	e of Complet	ion. Jul		70 Packe	r Name	Si	ngle-Brade	nhead-G.	G. or G.	.O. Dual	
Day	e or complet	1011.	7, 41	1 acke			<del></del>	Tr temb.	_ LAU F	<del></del>	
						ED DATA					
Tested Through (Process) (Choke) (Makes)					-	Type Taps					
	(Strotuen)		w Data	ss. Diff.	Temp.		g Data . Temp.	Casing D		Duration	
No.		Size			o <sub>F</sub> .		°F.	psig	1 1	of Flow Hr.	
SI	Short in 1		<del>-   -</del>			20/2		2051	1 .	111 •	
1. 2.	2 is	3/4"	55	1	60°(est)	792	60*(est)	1445	60°(est	) _3 hrs	
3.	· · · · · · · · · · · · · · · · · · ·										
4. 5.											
					FLOW CAL						
No.	Coefficient (24-Hour)				Fact	tor	Gravity Factor F <sub>g</sub>	Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
1.	12,365	, V	Mr T	606	1.000		0.9258	1.000		7492	
2. 3.											
<u>4.</u> 5.											
				PR	ESSURE CA	ል ( .C.) III . ልጥ	TONS				
se T	Liquid Hydro	carbon R	atio	110	cf/bbl.	LOUILI		fic Gravi	tu Senar	eaton Cas	
ravi	ty of Liquid			E\ <b>&amp;</b> 600	deg.		Speci	fic Gravi	ty Flowi	ng Fluid	
c	9.402		(т-е ,	0.283			Pc	<u> </u>	_Pc_ <b>4_2</b> 1	18,916	
$\neg \tau$	$P_{\mathbf{w}}$	2		1	1	2		2 2	<del> </del>		
No.	Pt (psia)	Pt Pt	F <sub>c</sub> Q	$(F_cQ)^2$	(F,	$\frac{Q^2}{e^{-s}}$	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal P <sub>w</sub>	, ,	
1. 2.		648,025	70.140	4961.794	1,404		2,052,213	2,166,703			
3. [										<u> </u>	
4. 5.			<del>-,</del> -	<del>                                     </del>					<del> </del>	<del></del>	
Abso	lute Potent		2,339		MCFPD;		5				
COMP ADDR	ESS	ex 487.	<b>Faming</b>	rolaum Ger Lon, New H	exide						
AGEN	IT and TITLE IESSED	R. M.	Peuer,	Frankres	Engineer	K	M Sau	en fr	CII -		
	PANY				DEN	DVC		6	THE	//	
				e e e e e e e e e e e e e e e e e e e		ARKS		/ RC	<b>UWI 1 P</b>	- \ - \	
				** ** ********************************				JU	L 28 195	77	

## 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 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- $F_g = Gravity$  correction factor.
- Ft Flowing temperature correction factor.
- $F_{nv}$  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  $P_{\mathbf{t}}$ .

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