Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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evised	12	-1-55

Pool	Basin Da	kota		Formati	.on	Dakota	and the second s	County	San J	urn	
Init	ialX_		_Annual_			Special_		Date of	Test Se	ptember 20, 19	
Comp	any Pan A	erican	Petro Leu	m Corp.	Leas	e <b>Johnson</b>	Gas Unit "	D" We	U No	1	
Casi	ng /_1/2" \	vt. 11	).5# L.6# ⊺.D.	4.090°	Set at	66611	rchaser Perf651	71	то 65	271	
							Perf.open				
						,	-				
									<del></del>	ess. <u>12</u>	
						2	Type W	enhead-G.	G. or (	G.O. Dual	
ate	of Complet	cion:	9-19-61	Pac	ker <u>n</u>	one	Reserve	oir Temp.	1430 F	·	
					OBS	SERVED DAT	A7				
'est	ed Through	(Bors	(Chok	ce) (Maba				Type Tap	os	<u> </u>	
— ——	75		low Data				ng Data	Casing I			
lo.	(Prover) (Line)	(Orif	ice)		-		Temp.	Press.		ന് ജിഡ	
SI I	Size	<del> </del>	ze ps	sig h <sub>w</sub>	o <sub>F</sub>		g °F.		°F.	Hr.	
<u> </u>	Shut-in			a l		1960 260	0 60° (4st.)	1964	60°es	3 hre.	
		-							<u> </u>		
•											
			<u>.</u>		FLOW	CALCULATI	ONS				
	Coefficient Pressure Flow Temp. G				Gravity						
	(24-Hour) √		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	p <sub>f</sub> psia		Ft Fg		F <sub>pv</sub>		@ 15.025 psia	
0	12,365		<del></del>	213	1	.000	.9258	1.0	25	24,99	
									二士		
				I	PRESSUR	e calcuia	TIONS				
	quid Hydro				_ cf/b		Speci	fic Gravi	ty Sepa	rator Gas	
	y of Liqui		carbons_ (1-e	s)	d	eg. ——	Speci P <sub>c.<b>19</b></sub>	fic Gravi <b>%</b>	ty Flow Pc 3.9	ring Fluid OL.576	
0.	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^2$	F <sub>c</sub> Q	(F <sub>c</sub> Q)	2	$(F_cQ)^2$ $(1-e^{-s})$	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	1. P.,	
	Pt (psia)					(1-e-s)	287,296	3,617,28	P	P <sub>w</sub> P <sub>c</sub>	
		···					20/12/0	3,017,23			
			<b></b>	<del> </del>							
	ute Potent:	ial•	2616		MCPI	PD; n	C 75				
OMPA	NY Para Ame	rican	Patrolem	Corpora	tion		V=12	<del></del>	-/-	PENA	
<b>JENT</b>	and TITLE	R. K.	Baner	br., Seni	or Pet	rolem En	rineer Kl	11/Saw	e . /21	PELAFO /	
TTNE	SSED NY								0	CT3 1961	
				<del>_</del>	Ī	REMARKS			Cit	CON. COI	
										DIST. 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  $(P_W)$ . MCF/da. @ 15.025 psia and 600 F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{W}^{-}$  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.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .