Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pod	ol <u>Blanco F</u>	istured	CLASS	<u>r</u> F	ormation	n_ Piet	ured Clii	ife	County_	Sen Ju	ien .	
Ini	itial I	<del> </del>	_Annua	al		Sp <b>e</b>	cial		Date of	Test_J	ıly 26, 1961	
Con	npany pen As	ericen	Petro]	enten Co	XD.	Lease_1	Lobato Gi	s Unit	'C" Wel	ll No	1	
	t <u>n</u>											
	ing 4.5											
Tub	oing 1	Wt. 2.	<b>75</b> _1.	D. 1.	<b>51</b> Se	et at	<b>2253</b> Pe	erf. open	ended	To_		
	Pay: From											
	ducing Thru											
Dat	e of Comple	tion:	7-18-	61	Packe	r K	Sir Me	gle-Brade Reserve	enhead-G. oir Temp.	G. or G	.O. Dual	
					<del></del>		ÆD DATA				· · · · · · · · · · · · · · · · · · ·	
Tes	ted Through	(Proru	erri (C	hoke)	(Makar)				Type Tap	<b>.</b> e		
<del>-</del>	Flow Data			7245747	-	Tubing Data		Casing Data				
	(REGERT)	(Chol	ce)		Diff.	Temp.		Temp.	Press.		Duration	
No.	(Line) Size			psig	h <sub>w</sub>	o <sub>F</sub> .	psig	o <sub>F</sub> ,	psig	o <sub>F</sub> .	of Flow Hr.	
SI	9 4478						802		795			
1. 2.	2 inch	3/4 1	noh	371			573	60(est)	162	60(est	) 3 Hr.	
2. 3.		1					<del> </del>	<del>                                     </del>				
4. 5.												
<u>5.                                    </u>							ļ	<u> </u>				
						FLOW CAL	CULATION	S				
	Coefficient		Pressu			re Flow Temp.			Compre	ess. Rate of Flow		
No.	(2) 11-	\	, , , , , , , , , , , , , , , , , , , ,		_		tor	Factor	Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia	
(24-Hour)		ur)	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$			F	t	Fg				
2	12.365				163	1,000	· · ·	.9258	1.0	,5	4595	
<del>;</del>												
+•												
<u>5.                                    </u>												
					PR	ESSURE C	alcui <b>ati</b>	ons				
as I	Liquid Hydro	ocarbon	Ratio			cf/bbl.		Speci	fic Gravi	tv Sena:	rator Gas	
ravi	ity of Liqui	id Hydro	carbo	ns_		deg.		Speci	fic Gravi	ty Flow:	ing Fluid	
c	<del></del>		(1.	-e <sup>-s</sup> )			·	Pc	807	Pc 651	,21,9	
$\Box$	$P_{\mathbf{W}}$	2					9		2 0	<del>                                     </del>		
No.	P. (nais)	Pt <sup>2</sup>	Fc	1	$(F_cQ)^2$	(F	<sub>ල</sub> Q) <sup>2</sup> –e−s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal	P <sub>w</sub> P <sub>c</sub>	
-	Pt (psia)		<del></del>			(1		42,225	7033 2001.	P,	, P <sub>C</sub>	
2.								42,627	309,024	+		
3.			ļ								ATTA.	
2. 3.			<del></del>		<del></del>					10	TITIVED	
	lute Potent	101.	<del></del>		3662	MORDD -	<u>-</u>	04		1/1	1051	
	ANY	Pan	Ameri	een Pe	troleum	MCFPD;	tion '	.85		A	UG2 1961	
	ESS	Box	480,	fermin	gton, N	ev Nexte	10		<u> </u>		L,CON. CO	
	T and TITLE ESSED	R. F	L Bau	er, Jr	Sen	ior Petr	oleum kin	gineer	KWE	and,	DIST. 3	
COMF				<del></del>								
						REM	ARKS			<del></del>	<del></del>	

## 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 600 F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- $P_{\rm w}$  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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- $F_g$  Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{nv}$  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  $P_{\rm t}$ .