\_County\_\_\_

## MULTI-POINT BACK PRESSURE TEST, FOR GAS WELLS

Yates

\_Formation\_

Jalmat

Pool

itial	1XAnnual			Spec	cial		Date of Test 9-8/19-58			
ipany Pan Am	erican Pet	roleum C	erp.	Lease(	C. Myers	uBu	Wel	.1 No	<u> </u>	
t <u> </u>	ec. 21 T	wp. 24	Rge	e. <u>3</u>	7Purc	haser_Po	ermian Bas	dn Pip	eline Co.	
ing <b>5-1/2*</b> W	t. <b>17.0#</b>	I.D. 4.8	<b>92"</b> Se	t at	<b>3295</b> Pe	rf. 2	950	То	3090	
ing <b>2-3/8*</b> W	t. 4.7#	I.D. 1.9	<b>95"</b> Set	t at	<b>2772</b> Pe	erf		То		
				1.165					ess. <u>13.2</u>	
ducing Thru:										
e of Complet	ion: <b>5-2</b>	7-58	Packer	r	Sir	gle-Brade Reservo	enhead-G. oir Temp.	G. or (	G.O. Dual	
			<u> </u>		TED DATA					
	<b>/</b> -	(2)	(a		LED DAIR			1	ije	
ted Through	(Prover)	(Choke)	(Meter)				Type Tap	s	1 -	
(Prover)	Flow (Choke)		Diff	Temp.		Data Temp.	Casing D	4	Duratio	
(Line)	(Orifice)		1	o <sub>F</sub> .				o <sub>F</sub> .	of Flo	
Size	Size	psig	h <sub>w</sub>	· ·	psig 725.2	<del></del>	psig <b>725.1</b>	-F-	72 hr. SIP	
4	2,25		3.3	92	657.3		689.6		24	
	2,25 2,25		12.0 31.9	67	588.0		639.6	<del> </del>	24	
<del></del>	2,25	178.2		53 60	272.3		579.8 534.7	<del> </del>	2 <u>L</u>	
2 20:					CULATION			<del></del>	D	
Coefficie	Coefficient		Pressure		- ,	Factor			Rate of Flow Q-MCFPD	
(24-Hou	(24-Hour) √ h <sub>W</sub>		osia	F+		$\mathbf{F}_{\boldsymbol{\sigma}}$	F		@ 15.025 psi	
40.53 40.53	20	.25 1	24.1	0.9706		0.9571	1,00	18	769 ~ 1923	
40,53 40,53	49	.07   20 .79   17	70.7	0.9933 1.0068		0.9571	1,01	78	1923	
40.53			70.7	1,0000		0.9571	1.01		2925 3392	
						<u> </u>	1.01		3772	
Liquid Hydrodity of Liquid	d Hydrocar		PRI 0,117	cf/bbl.		Spe <b>ci</b> Spe <b>ci</b>		ty Flow	arator Gas wing Fluid	
$P_{\mathbf{W}}$	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	(F	(cQ) <sup>2</sup>	P <sub>W</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	Ca	al. Pw	
Pt (psia)				(1	e-s)			I	Pw Pc	
702.8	449,2 361,4			_	<del></del>	1493.9	51.3	177	-95	
373.0	205.4					351.6	193.6	7	80	
547.9	81.5		····			300.2/	245.07	- <del> </del>	-74	
olute Potent: PANY Pan RESS Box NT and TITLE	American I	380 Petroleum Jobbs, Ne	w Mexic			79 181				
NESSED R. I	. Nest &	D. Hor	ton							
PANY Perm	dan Basin	Pipeline	Compan							
				REM	MARKS					

Poor point alignment, but due to this being a retest an average slope was drawn through the 2nd and 4th data point.

akil

## 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.
- $P_c$ = 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.
- $h_{\mbox{W}}\mbox{\fontsize{$\mbox{$\sim$}}}$  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  $P_{\mathbf{t}}$ .