## Heads affect out

Pool Undesignated

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS | Company | County |

Revised 12-1-55

\_\_County\_\_\_Les\_\_

Init	ialX	An	nual		Spec	ial		_Date of	Test_	30 to 5-2-58	
Company Pan American Petroleum Corp. Lease Buffalo Federal Unit Well No. A											
Unit	<b>H</b> S	Sec4	Twp. 198	Rge	e. 33%	Purc	haser	None			
Casing 7 Wt. I.D. Set at Perf. 13,270 To 13,305										3,305	
Tubing 2-1/2 Wt. 6.5 I.D. 2.441 Set at 13.263 Perf. To											
Gas Pay: From 13,270 To 13,305 L 13,263 xG 0.700 -GL 9284 Bar.Press. 13,2											
Producing Thru: Casing Tubing Tubing Type Well Single  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: Packer 13,233 Reservoir Temp. 1547											
5	or compress										
OBSERVED DATA  Togted Through (Present) (Chalco) (Notes)											
Tested Through (Prever) (Choke) (Meter)  Type Taps Flange  Flow Data  Tubing Data  Casing Data											
~т	(Prever)	FLow (Cheke)	Data Press	. Diff.	Temp.		Data Temp.	Casing D		Duration	
No.	(Line) Size	(Orifice Size	)			psig		psig	1 1	of Flow Hr.	
SI	0150	0120	Pors	W		<b>1205</b>	<del> </del> -	P0-8		66	
1. 2. 3.		2,250	580	71		950	78_			21	
2.	<u> </u>	2,250	550	70	80	1353	80			3	
<del>3.</del>		2,250	520	44.5	78	2304	78		<del>                                     </del>	3	
4. 5.		2,250	51.0	12.0	76	3360	75	<del></del>	<del> </del>		
FLOW CALCULATIONS  Coefficient   Pressure   Flow Temp.   Gravity   Compress.   Rate of Flow											
No.	Coeffici	ent	P:	ressure						Rate of Flow	
NO.	(24-Hou	$\mathbf{r}$ ) $\sqrt{1}$	hDe	- psia			F <sub>~</sub>	Factor F <sub>pv</sub>		@ 15.025 psia	
1.	33.10	20	K-O E	09:0	F <sub>t</sub>		A ASEA	1 · 000		6664	
$\frac{1}{2}$	31.10			63.2	0.9813		0.9258	1.062		6342	
3.	33.10			33.2	0.9831		9.9258	1.06		503A	
4.	33.10			23.2	0.9850		0.9258	1.06		2537	
2. 3. 4. 5.											
				PRE	ESSURE C	ALCU ATI	ONS				
Gas Liquid Hydrocarbon Ratio 12,335 cf/bbl. Specific Gravity Separator Gas 0.706 Specific Gravity Flowing Fluid 0.766											
Gravity of Liquid Hydrocarbons 54 C 5.866 (1-e-S) C					deg. <b>0.471</b>			P <sub>c</sub> 4218.2		P <sub>c</sub> 17,793	
· C	/,000	,	_(1=0 /	40417		-	* c		_¹ c	11/2	
<del></del>	D									<del></del>	
No.	$P_{\mathbf{W}}$	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	$(F_cQ)^2$	) (F	$(cQ)^2$	$P_{w}^{2}$	$P_c^2 - P_w^2$	Cal	P.,	
	Pt (psia)	- 6	-61	("64)	(1	_e-s)	W	C W	Pw	Pw Pc	
1.	963.2	927	39.09	1528		20	1647	16,146	1253		
2.	1366.2	1467	37.2	1364	6	52	2519	15,274	1587	34	
	2317.2	5369	29.53	872		11	5780	12,613	2400		
<del>4.</del> 5.	3373.2	11,378	14.80	221_4		04 1	1,42	6,311	3309		
	lute Potent: ANY <b>Pan Am</b>			Composit	MCFPD;	n 0,9	04	<del></del>			
ADDRI	ESS Box 68			w Mercies	<u> </u>	<del></del>			<del></del>		
	T and TITLE		. Mec		old For	ineer					
WITN	ESSED	7									
COMPANY											

## 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 (Pw). 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
- 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  $P_{w}$  cannot be taken because of manner of completion or condition of well, then  $P_{w}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{+}$ .