MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55
TIGATOCA	

Pool	Basin Dal	rota	Fo	rmation	Dako	ta		_County	San Jm	VB	
Initial Annual Special Date of Test 2-21-61											
Comp	pany Pan Amer	rican Petro	lem Co	rp.	Lease	8. H. M.	kin	Wel]	No	8	
Unit Sec. 1 Twp. 27% Rge. 11% Purchaser Southern Union Gas Company											
Casi	Casing 4-1/2 Wt. 9.50 I.D. 4.090 Set at 6269 Perf. To To										
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6086 Perf. no perfs; epon ended											
Gas Pay: From 6120 To 6202 L 6086 xG 700 (est)GL 4260 Bar. Press. 12											
Prod	Producing Thru: Casing Tubing X Type Well Single gas Single-Bradenhead-G. G. or G.O. Dual										
Date	e of Complet	ion: 2-1 3	-61	Packer	_ None	Sin _i	gle-Brade Reservo	nhead-G. (ir Temp	i. or G 126 ⁰ F	.0. Dual	
					OBSERV	ED DATA					
Test	ted Through	(Branch ((Choke)	(Material)				Type Taps	3		
			ata			Tuhing	Data	Casing Da			
No.	(Line)	(Choke)	Press.		Temp.		Temp.			Duration of Flow	
	Size	Size		h _w	°F.	psig	°F.	psig	°F∙	Hr.	
SI l.	8 days si	art in 3/4—inch	152			1967 197	60 (est	1967		3 bre.	
2.		74-2160				471_		793			
3. 4.		 	1								
<u>4.</u> 5.											
	068:-:					CULATION				Dod o & Elec	
No.	$(24-Hour)$ $\sqrt{h_w p_e}$ psia			Fac	tor	Factor	r Factor Q-MCFPD				
			- 1		F	t	Fg	Fpv		@ 15. 0 25 psia	
1. 2. 3. 4. 5.	12,365			164	1.000		0.9258	1.019		1913	
3.											
5.											
				PRI	ESSURE C	ALCU ATI	ONS				
Gas I	Liquid Hydro	carbon R at i	io		cf/bbl.		Speci	fic Gravit	zv Sepa	rator Gas	
Gravi	ity of Liquid	d Hydrocarl	oons		deg.		Speci	fic Gravit	y Flow	ing Fluid_	
· c			(1-e -7_				-rc	14/4	_rca	716,443	
	$P_{\mathbf{w}}$					2		2 0			
No.	Pt (psia)	$P_{\mathbf{t}}^2 \mid I$	·cQ	$(F_cQ)^2$	(F	cQ) ² -e ^{-s})	P_{w}^{2}	$P_c^2 - P_w^2$	Ca P		
<u>_</u>	- 0 (Р)						354,025	3,562,416		W	
1. 2. 3. 4.								<u> </u>	 		
4. 5.									 		
	olute Potent	ial: 26	<u> </u>		MCFPD:	n 0.7	<u> </u>	L	_1		
COMPANY Pan American Petroleum Corporation											
ADDRESS Box 460, Farmington, New Mexico AGENT and TITLE R. M. Bayer, Jr.; Senior Petroleum Engineer MM. Sauce											
Wlin	NESSED										
O OPI	COMPANY REMARKS										

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 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- Fny 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_{+} .