MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	⊥ <u>So. B</u>	lanco P.	C.	Formation	Pict	wred Cli	<u> </u>	County	Rio Arr	iba	
Initial				··········	Spe	cial		_Date of	Test_ <u>Ju</u>	ly 17, 1958	
Com	pany Sout	hern Uni	on Gas C	0	Lease	Jicaril]	a	Wel	1 No	3-B	
Uni	t <u>K</u> s	Sec. <u>35</u>	Twp . 26	Rg	ge. <u>4</u>	Purc	haser	Southern	Union G	RE Co.	
Cas	ing 5-1" W	t 15.5#	I.D <u>l</u>	9 50 Se	et at <u>390</u>)2 <u>KB</u> Pe	rf. <u>3770</u>)	To 3842		
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3780 KB Perf. 3765 To 3780											
Gas	Pay: From_	3770 T	o 3842	L	3765 ⁻	xG <u>067</u>		22.5	Bar.Pres	is. 12.0	
Pro	ducing Thru:	Casin	g	Tu	ıbing	x	Type We	ell Sine	le-Ges		
Date	e of Complet	ion: Jul	y k. 1958	B Packe	r	Sing	gle-Brade Reservo	enhead-G. oir Temp.	G. or G.	O. Dual	
		<u> </u>				ÆD DATA					
Test	ted Through	*Prover	(Choke) -{******				Type Tap	c		
			w Data	/ 30	Tubing	Dat a		Type TapsCasing Data			
No.	(Prover) (Line)) Pres	s. Diff.	Temp.		Temp.		Temp.		
	Size	Size	· 1	g h _w	°F.	psig	o _F .	psig	[⊃] F•	of Flow Hr.	
SI		3/) ₍ w	70		650	1049		1049		7 Deys	
1. 2.		3/4-	50		050	50	6द 0	106		- 3 hours	
3.		 				 					
4. 5.											
					FLOW CAL	CULATIONS	5				
No.	Coefficient]	Pressure		Temp.	Gravity	Compress.			
اً الله	(24-Hou	r) /	hwpf	psia	Ft		Factor F _g	Factor F _{pv}		@ 15.025 psia	
1.	12.3650			62			.9463		74	22 m ef	
1. 2. 3. 4. 5.											
4.											
<u> </u>					 .						
				PR	ESSURE C	CALCULATIO	ons				
	Liquid Hydro				cf/bbl.			fic Gravi			
	oy or broad	=	(1-e ⁻⁵))	_	Specific Gravity Flowing FluidPc1049Pc1100_4					
							P 1	18	P ² 13.9		
	$P_{\mathbf{W}}$	-2	- ^	()2		- ,2		-2 -2			
No.	Pt (psia)	Pt Pt	F _c Q	$(F_cQ)^2$	(1	(cQ) ² (-e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cal P _w	Pw Pc	
<u>;</u> .							13.9	1086.5	W	-113	
2. +									 		
1. 2. 3. 4.									1		
	olute Potent:	-	732		MCEDD -				<u> </u>		
COMF	ANY Sout	hern Uni	on Gas C	WID STY		n 0.85					
ADDF	ESS P. O. BO	x 815. I	Parmingto	n. New M	exico						
WIIN	ESSED	<u> </u>	11/1 1 HG	.		*****					
COMF	PANY	——————————————————————————————————————			REM	ARKS		N			

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- $P_c=72$ hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- $P_{\mathbf{w}}^{-}$ 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.
- $F_g = Gravity$ 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 $P_{\mathbf{t}}$.

THE WILLIAM !