MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool		Eumon	t	_Forma	tion_	Que	en		_County	1	.ea	
Initial x Annual									_Date of	Test_6	-11 to 6-15-56	
Comp	any	L.E.	Elliott_		L	ease	Federa	l Elliott	Wel	1 No	2	
Unit	S	Sec26_	_Twp2	0 S	Rge	·36E	Purc	haser <u>r</u>	Pago Na	tural C	Gas Co	
Casi	ngW	′t	I.D		_Set	at_372	20Pe:	rf		То		
Tubing 2 Wt. I.D. Set at 3775 Perf.										То		
											ss. <u>13.2</u>	
Producing Thru: Casing Tubing Type Was Single-Brace Date of Completion: 6-26-54 Packer Reserved.									lenhead-G. G. or G.O. Dual			
Jave	or compret	TOI1.	-40-54		CVCI				rr remp			
						OBSERVI	ED DATA					
[est	ed Through	(Prove)	r) /(Ghp)k	<u>e) (Met</u>	ter)				Туре Тар	S_Fla	nge	
	(Prover)		ow Data	ss. D	ff.	Temp.	Tubing	Data Temp.	Casing D		Duration	
No.	(Line)	(Orific	ce)				psig		psig	°F•	of Flow Hr.	
SI	Size	Size	ps	ig l	¹ w	-F•		r.	94 1	F•	72	
1.	4	1.250	56	8 3	62	1.96	840 780		789		24	
2.		4	56	6 5	45P	29.70 32.49 32.49	681		730		24	
3. +•		, ,,	56	5 5	. 72	37 49	649		704		24	
5. 1	77	11	59	8 5	. 72	· //	629		688		24	
No.	Coefficient (24-Hour)				essure F		tor	Gravity Factor	Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
	9.643		86.77 <u></u>	581.				.9427 [/]			833/	
L. 2. 3.			31.14	5 191		9924		9427	1.062		1.256	
3 c		106 1	31.34	5787	// 2.			.9427	1.060		1.253	
5.		1-	40.90′	6.7.		. 9868		.9427	1.075		1.359	
	iquid Hydro ty of Liqui			s)		SSURE CA		Speci	fic Gravi	ty Flow	rator Gas ving Fluid	
											1297	
No.	P _w Pt (psia)	$P_{\mathbf{t}}^{2}$	F _c Q	(F	_c Q) ²	(F ₁	cQ) ² -e-s)	P _w 2	$P_c^2 - P_w^2$		P _W P _C	
l. 2.	792.2					62	7. 68	629.6	77.7		94.1	
3.	743.2		+			+		552.3	155.0	+	88.3	
• ••	717.2		 	+-				514.4	192.9 215.6		85.2 83.3	
5.	701.2							491.7	813.0		03.3	
COMP		ott. Inc	•	770		_MCFPD;	n5	87	102.1			
ADDR AGEN	T and TITLE		swell, N	ew Mex.	LUU		. 		215,3	 		
	ESSED	·							238.0			
COMP												
						REM	ARKS			THE PROPERTY OF THE PARTY OF TH		

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 T Actual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 600 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t : Flowing temperature correction factor.
- F_{DV} 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_t .