1-F

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Basin	Dakot	<u>a</u>	Fo	rmation	Da	kota		_County	San .	Juan	
Initial X Annual				al	Special				_Date of	Test	5/8/61	
Comp	any Sout l	west	Produc	tion Co	прапу	Lease	Edgar Fe	deral	Wel	.1 No	7	
Unit	P 5	Sec1	2Tw	p. 27N	Rg	e. 12W	Purc	haser	El Paso Na	atural (Gas Company	
Casi	ng 52 W	/t. 15	.5 I	.D. 4.9	90 Se	t at 643	14 <u>P</u> e	rf. 633	5	То	6355	
Tubi	ng 2 3/8 W	it4	.70 I	.D. 1.9	9 5 Se	t at 636	9 Pe	rf. 6369)	То		
Gas 1	Pay: From_	63 35	_ _{To_} 6	3 55	_L_ 63	69x	G .67		1248	Bar.Pre	ess. 12.0	
	ucing Thru:						x	Type We	ell Si ng	gle-Gas		
	of Complet						Sin	gle-Brade	enhead-G.	G. or C	.O. Dual	
							ED DATA		_			
Teste	ed Through	(Marcas	DESIGNE) (1	Choke)	(KINCACINCARINC)				Туре Тар) E		
			Flow D				Tubing	Data	Casing D			
No.	(Prover) (Line)	(Che			Diff.	Temp.		Temp.	Press.	Temp.	Duration of Flow	
	Size			psig	h _w	°F.	psig	°F.	psig	°F∙	Hr.	
SI l.	·	3/	4	187		69	1960 182	69	1960 499	 -	7-Day 3-Hr.	
2.										<u> </u>		
1. 2. 3. 4. 5.												
<u> </u>		<u> </u>				DI OU CAI	OUT A TON	I	<u> </u>	<u>l — </u>		
	Coefficient Pressure Flow						Temp.	Gravity Compress. Rate of Flow				
No.	(24-Hou	ır) $\sqrt{h_W}$		p _f psia				$\mathbf{F}_{\boldsymbol{\varphi}}$	1 1		Q-MCFPD @ 15.025 psia	
1.	12.3650			_	199	.991	5	.9463 1.0		21 2,357		
2. 3. 4. 5.												
5.												
					PR	ESSURE C	ALCU ATI	ons				
as Li	iquid Hydro	carbo	n Rati	0		cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas	
Gravity of Liquid Hydrocarbons (1-e					deg. Sp				ecific Gravity Flowing Fluid 1972 Pc 3888.7			
C			`	- <u>-</u>			•		511		261.1	
No.	$P_{\mathbf{w}}$	P	2 F	_c Q	(F _c Q) ²	ন)	-0) ²	P _w 2	$P_c^2 - P_w^2$	Ca	il. Pw	
	Pt (psia)	- 1		c -	(· c « /	(i	c ^{Q)² -e^{-s})}				P _C	
1. 2. 3. 4.								261.1	3627.6		.259	
4.										 		
5.	lute Potent	1974	2 47			MCEDU -	n .75		L			
COMP	ANY South	nwest	Produc	tion Co	mpany					. 		
AGEN	ESS 162 I T and TITLE	Ge Ge	orge I	Hoffa	, rarmi an, Jr.	ngton, M	tion For	eman				
WITNI COMPA	ESSED ANY											
						REM	ARKS					



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. 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.
- $h_{\mbox{w}}$ 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 $P_{\mathbf{L}}$.