NEW MEXICO OIL CONSERVATION COMMISSION

GAS ENGINEER

HOBBS OFFICE OCC

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Bame	nt _		Fo	rmation_	Que 6 h	OCT 8	PM 2:	2 2 _County	Lea	- A.A. P	
Init	al X Annual			al	Special			Date of Test 7-5-56				
									MCT-Well			
									mian Bas			
									<u>.</u>			
			†						236			
									11 Sincl enhead-G.			
Date	of Comp	letion:	b-7·	-54	Packe	•	Sin	gle-Brade Reservo	enhead-G. (oir Temp	G. or (3.0. D	ual
Date	OI Comp.	1001011				OBSERV						
CO ₂	= 1.75% ed Throu	gh <u>(R</u>	= 1,17; ************************************	(Choke)		4			Type Tap	s_Pi	pe	
			Flow D	ata		· ·	Tubing	Data	Casing D			
	(Dyove	a) (6	hoke.	Press.	Diff.	Temp.	Press.	Temp.	Press.			Duration of Flow
No.	Size) (01	Size	psig	h _w	o _F .	psig	°F.	psig	°F∙		Hr.
SI							944.3	<u> </u>	945.2	 	1 71	3/4
1. 2. 3. 4. 5.			2.25 2.25	461.2	3.9 8.8 15.0	68			795.0			3/4
<u>3.</u>				463.6	15.0	70	751:3		727.3	 		2/1
4.			2.25	470.9	18.4	68	504.9	 	643.1			3/4
<u> </u>				4	<u> </u>	TT OU CAT	OUT ATTON	· ·				
	(24-Hour)			Pr		FLOW CAL Flow	Temp.	Gravity			Rate of Flow	
No.					psia	Factor F _t		Factor	Factor F _{pv}		Q-MCFPD @ 15.025 psia	
<u> </u>			V 1		470.8	.992		F _g	1.050		1.713	
$\frac{1}{2}$	40.53 40.53		64	65	474.4 .994				1.051		2,590	
3。	10.53		T.	.57	476.8 .990				1.049		3,370	
1. 2. 3. 4.		40.53		.38	184.1 .992					134	3+/17	
<u> </u>			- · · · · · · · · · · · · · · · · · · ·	· .	PR	ESSURE C	CALCUTATI	ONS				
Gas I	Liquid Hy	drocarl	bon Rati	io		cf/bbl.	ı	Spec	ific Gravi	ty Sep	arator	Gas
Gravity of Liquid Hydrocarbons					deg.			Specific Gravity Flowing Fluid Pc 958.4 Pc 916.5				
^t 'c				(1-e -/			-	* c—-	7919		7441	
\neg	P _w		2	T	, .	, ,	- 0\2		$P_c^2 - P_w^2$	T	207	D
No.	 Pt (psi	(a)	P_{t}^{2}	F _c Q	$(F_cQ)^2$		$(c^{Q})^{2}$ $(c^{Q})^{-s}$	P_{w}^{2}	P _c -P _w		al. P _w	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$
1.	773.							763.5	155.0			-91
2.	404.						+	#53.2 511.1	370.2	1		77
3. 4.	740. 696.							A.A.	433.7			.73
5.												
	olute Por	tential	<u></u>	595		MCFPD	; n	74				
	PANY RESS		The Te	Tal 50	arent.	Poves			9 1			
AGE	NT and T	ITLE	L. I.	John P.	Bist	Los Ga	. Xan	Zel	Bas			
WIT	NESSED		1. I.	Berrot	8							

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 (P_W). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- PwI Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- PtI Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{w}}^{\perp}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.