## NEW MEXICO OIL CONSERVATION COMMISSION

1631 CM C Form C-122
Revised 22-9355

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	olEUM	ONT	D.	or wat lor	QUI	EEN SAND		County_	LEA		
				Special				Date of Test			
Сол	Company CHAMBERS & KENNEDY				Lease MONUMENT STATE				Well No. 1		
Uni	it <b>J</b>	Set. <b>34</b> m	wp. 19	S Rg	e. 37	E Purc	haser	NOT TIED	IN		
Cas	sing 5-1/2" V	14.0 /t <b>.15.</b> 5	5. I.D 4.	.012 .9 <b>50</b> Se	t at <b>3</b> 99	<b>54'</b> Pe	rf. 35	841	To	3700'	
	oing <b>2-1/2"</b> V										
	Pay: From									12.2	
									_		
Dat	ducing Thru:	300 F 31	<b>0</b>	]	01.116,	Sin	gle-Brade	enhead-G.	G. or (	G.O. Dual	
Dao	e of Complet	1011,	3-01	racke			kes <b>erv</b>	orr nemb.	990	drah perungan Perungan dan diangkan dan diangkan dan diangkan dan diangkan diangkan diangkan diangkan diangkan	
<b></b>	1 0	7				/ED DATA					
Tested Through (Prover) (Materix) Type Taps CRITICAL Flow Pro										ICAL FLOW PROVE	
	Flow Data (Prover) (XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			D: 00		Tubing Data		Casing Data		1	
No.		(Orifice)			Temp.	Press.	Temp.	P		Duration of Flow	
	Size		psig		o <sub>F</sub> .	psig	°F.	psig	) F.	Hr.	
SI						500		567	<u> </u>	S.1. 72 HRS.	
1. 2. 3. 4. 5.	2#	5/16 <sup>#</sup> 7/16 <sup>#</sup>	476		<u>78</u>	477		511		3 HRS.	
<u>3.</u>	2"	5/8"	<b>368</b> 265	-	76 74	268		457 39 <b>3</b>		3 HRS. 15 MIN	
4.	2"	3/4"	190	-	72	194		372	1	3 HRS.	
<u></u>		L					help was or , are bosen any assessment of				
	Coefficient			FLOW CALCULATION Pressure   Flow Temp.			ONS Gravity Compress. Rate of Flow				
No.				PROVER)	) Factor F <sub>t</sub>		Factor	Facto	r	Q-MCFPD	
	(24-Hou		p <sub>f</sub>	osia			Fg	Fpv		@ 15.025 psia	
$\frac{1}{2}$	2.1577 - 4.3337 u		- 48			31 /	.96 <b>03</b> L	1.04		1042	
3.	8.3555 V					50 V	.9608 .3608	1.034		1641	
1. 2. 3. 4.	12.2023					37	.9608	1.019		2259 / 2400 -	
5.											
				PRI	ESSURE C.	ALCUIAȚI	DNS				
	Liquid Hydro			ONE	cf/bbl.					rator Gas .650	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Fc (1-e-5) Pc 580.2 Pc 336.6										336.6 \( \)	
						•	<u> </u>		<del>-</del>		
	$P_{\mathbf{W}}$	_2 _		2		.2		2 0	7		
No.	Pt (psia)	$P_{t}^2 \mid F$	c <sub>S</sub>	$(F_cQ)^2$	(F)	cQ) <sup>2</sup> -e-s)	P <sub>w</sub> 2	$P_{c}^{2}-P_{w}^{2}$	Ca		
1.	524.2				<del></del>		274.8	51.3		W P <sub>C</sub>	
1. 2.	470.2						221.1	115.5		101	
3. 4.	406.2						165.0	171.60	/	7601	
5.	<b>38</b> 5.2						148.4 🗸	188.2	4	- <del> </del>	
	olute Potent:	ial: 3	3750	<del></del>	MCFPD:	n .752		Wie CF Landscorpe, November 1994, normal per	ingenius and an and an an an an		
COMF	COMPANY CHAMBERS & KENNEDY										
ACENT and TITLE APEX ENGINEERING COMPANY - BY: Harry E. Leeulle											
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## 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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- Pc= 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n \_ 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  $P_{\rm t}$ .