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## NEW MEXICO OIL CONSERVATION COMMISSION

AUG 2 9 1960 Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

70 Revised 12-1-55

Po	ool RED I	AKE		_Formation	n PREI	MIER SAN	D	County_	EDDY	
In	nitialX	A	nnual		Spe	cial				
Co	mpany CHAME	BERS & KEN	INEDY		Lease	GULF	STATE	We	אַר וּוּ	1
Un	it P	Sec. 22	Two_	17 <b>\$</b> Re	28	E. p	nchaean		TT NO	
Ca	sing 4 1/2	Wt. 16.2	25 I.D.	4.082 Se	t at 19	996' [	Perf. 19	110'	<b>To</b> 19	916'
Tu	bing 2.375	wt. 4.7	т л 1	.995 ca	<u> </u>	990	NON		_*~	
Gau	s Pay: From	1910՝ դր		se 6' +	6	72	err. Non		_To	40.0
Pro	oducing Thru	· Casino	,		h.:	ж. <del></del> Х			_Bar.Pr	ess13.2
Dat	oducing Thru te of Complet	tion:5	<b>-</b> 13 <b>-</b> 60	Packe	r NO	Si ONE	Type We ngle-Brade Reserve	enhead-G.	G. or	G.O. Dual
						VED DATA				
Tes	sted Through	(Prover)	(Choke	(Metrenx)		DE DEIR		Type Tap	os	
		Flow	Data	<del></del>		Tubin	g Data	Casing D		Ţ
No.	(Prover)	X(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Pres		Temp.		· Temp.	Press.		Duration
	Size	(Orifice		1 (	$\circ_{F}$ .	psig	o <sub>F</sub> .	psig	⊳ <sub>F</sub> .	of Flow Hr.
SI	:			<u> </u>		378	760	378	760	76 Hours
1.	2"	3/8,,	68		82			364	780	2 Hours
2. 3.	211	1/2	57		76			354	78°	2 HOURS
	2"	1/2	<u>94</u> 51		72			336	78°	2 Hours
<u>4.</u> <u>5.</u>		5/ 4	31		64	<b></b> -	-	314	78°	2 Hours
				T	T OW CAT	CULATIO	uc.		<u> </u>	<u> </u>
	Coeffici	ent	Î	ressure	Flow	Temp.	Gravity	Compre	ss. I	Rate of Flow
No.		-1			Fac	tor	Factor	Frata	r	Q-MCFPD
	(24-Hou	r) 7	n <sub>w</sub> p <sub>f</sub>	psia	F	t	Fg	Fpv		@ 15.025 psia
<del> </del>	3.0691 5.5233			81.2	.9795		.9129	1.000		223
<del>~</del>	5.5233	<del></del>		70.2	.9850		.9129	1.000		349
7.	12.2023			107.2 64.2	.9887		.9129	1.014		542
1. 2. 3. 4. 5.				04.2	.9962		.9129	1.000		712
Grav:	Liquid Hydrodity of Liquid	i Hydrocai	rbons	RY GAS			Speci: Speci:	fic Gravit fic Gravit	ty_Flow	rator Gas_721 ing Fluid 53
No.	P <sub>w</sub> 378  X <b>P</b> (x)(psia)	Pt Pt	F <sub>c</sub> Q	$(F_cQ)^2$	(F.	<sub>cQ)</sub> <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca.	
1. 2.	377.2 367.2						142.3	10.7		.964
3.	349.2			<del></del>	<del></del>		134.8	18.2	1	.939
3. 4. 5.	327.2				<del>-  </del> -		107.1	31.1 45.9	<del> </del>	.893
5.							, -, , ,	10.0		.836
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Abso COMF ADDF AGEN		BERS & KE MIDLAND N RICH	NNEDY ATIONAL	Bank Buil Ner , Mana	MCFPD; DING, M					

REMARKS

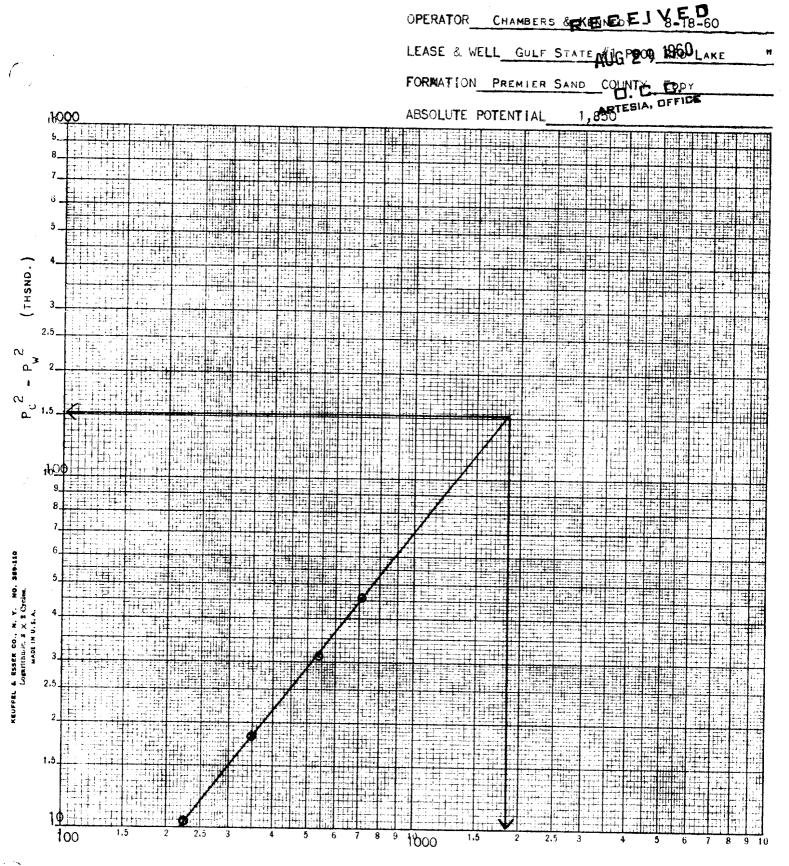
### INSTRUCTIONS

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
- $P_w$  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.
- hw Differential meter pressure, inches water.
- $F_g$  Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{pv}$  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  $P_{\rm t}$ .



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