## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-5	MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS WELL	LS		<b>* 1</b>	Revised	12-1-55
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Pool	Eumor	nt		F	ormation	Pel	nrose	·	County	Lea		
Init	ial		Annu	al		Spec	cial	X	Date of	Test_3.	-25/3-29-63	
Compa	any Tidewa	ter Oi	l Comp	any		Lease	State "Al	Pas	Wel	1 No	1	
	<u> </u>											
	ng <b>5-1/2"</b> V											
Tubir	ng <b>2"</b> V	Wt	I	.D	Se	t at	35 <b>30</b> Pe	erf		То		
Gas I	Pay: From	3545	_To_ <b>3</b>	638	L <b>3</b>	530	xG6	84 <u>-</u> GL_	2414	Bar.Pre	ess. 13.2	
Produ	cing Thru:	: Cas	sing		Tu	bing	X	Type We	ell Sing	le		
							Sir	ngle-Brade	enhead-G。	G. or (	G.O. Dual	
						OBSERV	VED DATA					
Teste	ed Through	(Prov	<u>/er) (</u>	Choke)	(Meter)				Type Tap	s		
			low Da	n+ n			Tubin	Doto	Cocina	o to	<del></del>	
	(Phihhlotd)				Diff	Temp	Proce	z Data Temp	Casing D	Temp.	Duration	
No.	(Line) Size	(Orif	ice)		1				psig	ļ	of Flow	
SI	PIZE	1 3		here	W <sup>11</sup> W	Г•			<del>                                     </del>	<del></del>	<del> </del>	
1.	4**	1.0	300	224	9.00	104	399 320	<del></del>	Bad Valve	<b> </b>	72	
2.	400	1.0		229	18,49	104	290	<del> </del>		l	24	
<b>3.</b>	4**	1.0		215	22.09	80	250				24	
4.	4"	1.0	000	216	37,21	83	225				24	
5 <b>.</b> I	<del></del>	<del></del>		<b>!</b>	<b></b>	ET ON CAT	LCULATION	JS	<u> </u>	L		
$\top$	Coeffici	ent		P	ressure	Flow	Temp.	Gravity	Compre	55.	Rate of Flow	
No.			,			Fac	ctor	Factor	Facto	r	Q-MCFPD	
	(24 <b>-</b> Hoı	ır)	$\sqrt{h_{w}}$	p <sub>f</sub>	psia	F	<sup>7</sup> t	${\tt F_g}$	Factor Fpv		@ 15.025 psia	
1. 2.	6,135		46.2	1		-9402	. (	.9366	1.019		_259.7	
2.	6.135		66.9			-4239	960 P	.9366	1.019 274.5 3			
3 e	6.135	1235	71.0			.9813		9366	1.021	408.7 530.2		
3. 4. 5.	6.135 <sup>5</sup>	74.3	72.3	5		.9786		.9366	1.021			
					PR	ESSURE C	CALCUTAT	CONS				
	quid Hydro										arator Gas	
	y of Liqui			ons 1_e <sup>-s</sup> )	0,153	deg.	•		412.2		ving Fluid	
C			··		V 1 2 2 2		<del>-</del>	- C	- 7.0 is 2 ft		***************************************	
1/	/ <del>/</del> //						2	<del></del>	2 0	T		
No.		P <sub>t</sub>	F	eQ	$(F_cQ)^2$	(F	$(c_Q)^2$	$P_{w}^{2}$	$P_c^2 - P_w^2$	1	Pw Pc	
	Pt (psia)					(1	r–e_o)			I	P <sub>w</sub> P <sub>c</sub>	
1. 2.	333.2	111.3			6.656			112.0	57.9			
3.	303.2 263.2	91.9 69.3			13.84		117 523	71.8	75.9 93.1		<del></del>	
3. 4.	238,2	56.7		268	27.75		246	60.9	109.0	<del> </del>	<u> </u>	
5.												
Absol	ute Porent	ial:	660	<del></del>		MCFPD	n .87	s			_	
		dewa te:			7		, <u></u> -					
ADDRE	ESS Bo	x 547,1	lobbs,	N. Me	X.							
	and TITLE				ea Super	intende	at //	t. Illade				
	ESSED	R. A.	Mikel		as Co.				<del></del>			
COMPA	NY	AA PE	JEN DE	U LEEN	E5 640	REM	MARKS	<del></del>	<del></del>			

## 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 ( $P_{\rm W}$ ). 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .