## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

OIL CON. COM. DIST. 3

			М	ULTI-	-POINT	BACK PRE	ssure te:	ST FOR GA	S WELLS		Revised 12-1-5	
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	it <b></b>											
	sing 4-1/2											
	oing 1-1/4											
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	educing Thru e of Comple						Sin	ole_Brad	enhead_G	G or (	G.O. Dual	
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Tested Through (Prover) (Choke) (Meter)  Type Taps												
	/B	low Data	Data   Press. Diff. '			Tubing		Casing D	ata			
No.	(Line)	1 (Orif	ice)	ı				Temp.	i	ŀ	Duration of Flow	
SI	Size	Si	ze p	sig	h <sub>w</sub>	°F.	psig	F.	<u> </u>	°F.	Hr.	
1.		<u> </u>					1672		20/1	<u> </u>		
2. 3.	2"	0.750		214		64			1182		3 hrs.	
<u>4.</u> 5.										<u> </u>		
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	Coeffici	ent		Pressure		FLOW CALCULATION Flow Temp. Factor Ft.		Gravity	Compress. Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia	
No.	(24-Hou	ır)  -	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		osia			Factor F <sub>g</sub>				
1.			A M- T						- pv			
2. 3.	12.3650		·	+ ;	226	.9962		.9393	1.0	25	2660	
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ravi	Liquid Hydro ity of Liqui	d Hydro	carbons			cf/bbl.					rator Gas ing Fluid	
`c			(1-e	-s)					2053		215	
	p			<del></del>	<del></del> .	<del></del>			γ	-	· · · · · · · · · · · · · · · · · · ·	
No.	P <sub>w</sub>	$P_{\mathbf{t}}^2$	F <sub>c</sub> Q		$(F_cQ)^2$	(F <sub>c</sub>	<sub>cQ)</sub> <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca	1. P.	
1.	Pt (psia)		+	+	<del></del>	(1-	-e <sup>-s</sup> )			P.	Pw Pc	
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4. 5.								4450	2789	<del> </del>	1.5113	
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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 I Actual rate of flow at end of flow period at W. H. working pressure  $(P_w)$ . MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\mathbf{t}}$ .