## NEW MEXICO OIL CONSERVATION COMMISSION

Hoods carros add

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Eumor	1t		F	ormation	n	Queen	3:04	County	Lea		
Initi	ial	<del></del>	_Annual			Spec	cial_X	<del></del>	Date of	Test	·23 to	7-27-5
Compa	any Scher	merhor	n 011	Cor	ъ.	Lease	Но	uston	We]	ll No	1	
Unit	K	Sec <b>2</b> ]	Twp.	19	<b>S</b> Rg	ge. <u>87</u> ]	E Pur	chaser_ E	PNG			
Casir	ıg <b>5 1/2</b> V	Wt. <u>14</u>	I.D	. <u>5.</u> (	<b>)12</b> Se	et at <b>34</b>	<b>75</b> Pe	erf.		To		
	ng <b>2</b>											
	ay: From											3.2
	cing Thru:									_		
Date	of Complet	cion:	<b>9-12-</b> 5	4	Packe	r None	Sir <b>e</b>	ngle-Brade Reservo	enhead-G.	G. or	3.0. Dua	al
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Teste	d Through	(XXXXXX	r) (Ch	nkne)	(Meter)				Туре Тар	i e		
			ow Data				Tubine	Data	Casing D			
No.	(Line)	CECER	P:		Diff.	Temp.		Temp.	Press.		4	uration
	Size	Siz		sig	hw			°F.	psig	<sup>⊃</sup> F.	1	of Flow Hr.
SI l.	4 x 1.500	<del> </del>		568	2.352	62	911 846		913 856		1 .	72 24
2.	x 1.500 x 1.500			<b>551</b>	4.02	63	789		810			24
$\frac{3}{1}$	4 x 1,500	7		<u>549</u>	4.42	65	773		798			24
5.	4 x 1,500	1	-+	089	6.42	71	657	<del> </del>	727	740.2		24
No.	(2/1-Hour) \(\sigma\) h		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	Pressure		FLOW CALCULATIO Flow Temp. Factor Ft		Gravity	Compress. Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia	
1. 1	8.99 56.		56.64			.99		.946	<del></del>		796	
2. 1	3.99 94.		94.99				971 .946		3 1.064		1834	
4. 19	9.00 104.		04.81 58.88				962 9 896 9				1460	
4. <b>1</b> 5.			ODARO		<del></del>	- 38	990	.946	1.06	4	2206	<u>i                                     </u>
	quid Hydro y of Liqui		carbons			cf/bbldeg.	ALCU ATI	Speci Speci	fic Gravi fic Gravi <b>926.2</b>	ty_Flow	ing Flu	asid
10 ·	t (psia)	Pt.	F <sub>c</sub> Q		$(F_cQ)^2$	(F <sub>0</sub>	c <sup>Q)<sup>2</sup></sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Ca P	1. w_	P <sub>w</sub> P <sub>c</sub>
. 85 2. 80	2.2	788.7 648.5	-	-+				755.5 677.6	102.3 180.3			738
3. 78	35,2	616.5						658.0	199.8	+	<del></del>	
67	70.2	449.2						547.9	309.9	† <u> </u>		7.9
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		<u> </u>	<del>  </del>		<del></del>	<del></del>				1		
COMPAN	ite Potent: NY	form	5.70	U T	OTT COT	_MCFPD;	n .928	3				
DDRES	SS_	P. 0.	BOX	1591	7. HORE	RS. MEW	MEXICO	)		-	<del></del>	<del></del>
AGENT VIINES	and TITLE	J. H	TRAM N	OOR	E GEOI	OGIST						
COMPAN		E1 D-	190 No	+	1 Co-	Compan	***	<del></del>				
		<u>&amp;</u>	محبد بالظ	-413	1823	REM	RKS	<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  $(P_W)$ . 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
- Pr 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  $P_{\mathbf{W}}$  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  $P_{\mathbf{t}}$ .