## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	Tubb		·	F	ormation	Te	ıbb	·	_County_	Les			
Initi	al		_Annı	zaî		Spe	cial	X.	_Date of	Test_8-	9/8-1	6 1957	
Compa	my R. 0	lsen Oi	l Con	<b>pany</b>		Lease	Cone		We]	1 No	1 T	98•	
Unit	J	Sec. 26	Tw	m. 21	Rg	ge <b>37</b>	Purc	haser_El	Paso Nat	ural Ga	s Cor	ip any	
Casin	g 5 ½"	Wt. 15	.5# I	.D	Se	t at 6	150 Pe	rf	<del></del> -	То			
ľubin	g 2"	Wt. 4.	<b>7#</b> _I	.D.	Se	t at_61	100 Pe	rf					
Gas P	ay: From	6105	_To	6258	_L6	105	xG Mix 0.	730_GL_	4457	Bar.Pre	ess	13.2	
rodu	cing Thru	: Cas	ing	·	Tu	bing	X	Type We	11 <b>G. G</b>	. Dual			
ate	of/Complet	tion:	12-12	-1954	Packe	r	Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or G	i.O.	Dual 	
							VED DATA						
'este	d Through	KKYST	ži XX	<del>ONORE)</del>	(Meter)				Type Tap	s			
Flow Data					Tubing Data				Casing Data				
	(Record)	(3773	***	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.		Duration	
lo.	(Line) Size		ze	psig	h <sub>w</sub>	°F.	psig	°F.	psig	o <sub>F</sub> .		of Flow Hr.	
I	,		AFA				1644/166	2/1670			24/4	8/72	
•	4		250 250		9.61	77	1447			<del> </del> -	$\frac{2}{2}$		
	<del>- 7</del>		230	567	22.56		1165				2	•	
	4		250	573	32.49		921	<del></del>		<del> </del>	2		
0.	(Fig)			Pr	essure	Flow Fac	tor	Gravity Factor	Compress. Factor			876	
					psia	. F	't	Fg_	Fp <b>v</b>		@ 15.025 psia		
•	9.643 9.643		72.77 93.89		. 9840				1.057		679 851	9.6 12.3	
•	9.643		114.			.985		.9292	1.060		070	17.10	
•	9.643		137			.985		.9292	1.060		291	17.1	
s Licavit;	quid Hydro y of Liqui <b>9.936</b>	ocarbon id Hydro	carb	o 69.0 ons 70 1-e <sup>-5</sup> )		cf/bbl.		Speci Speci	fic Gravi fic Gravi <b>1683.2</b>	ty Flow	ing P	Gas 0.699 Pluid 0.702	
) ·	Pt (psia)	"	$P_{\mathbf{t}}^2 = F_{\mathbf{c}}^{\mathbf{Q}}$		$(F_cQ)^2$	(F	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>	100		Been Hear	
1 .	460.2 .320.2	2132.2		3.45	45.50 71.57		2.03	2144.2	6.9.0	1			
<del>:                                     </del>	178.2	1388.2		).63	113.00	<del></del>	9.83	1761.8	1071.4	+	<del></del>		
	934.2	872.7		2.83	164.61		3.46	916.2	1917.0	<del>                                     </del>			
<u>-</u>			4	650						<u> </u>			
osoli OMPAI	ute Potent NY	R. OI	sen (	Dil Com	O & TIV	MCFPD;	n_ 0.6	33					
DDRE	SS	2805	Liber	ty Ben	. Buildi			y, Oklaho	)Ma				
GENT	and TITLE												
OMPAI													
						REM	ARKS						

## 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
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- PtI Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.

Jane Barrier and Carlotte Barrier and Carlotte

- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.

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- 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  $P_{\mathbf{L}}$ .

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