## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	1 Jelmat			ormation	Ya	tes		County Lea					
		alAnnual											
Comp	pany R. 01	sen 011 C	ompany		Lease Blinebry "A"				Well No8				
Unit	13/	Sec. <b>29</b>	Twp	23 Rg	e. <u>37</u>	Purch	naser_El	Paso Nat	ural Ge	LE C	omb end	7	
	.ng_ <b>7</b> "												
Tubi	ng 2 1/2"	Wt	I.D.	Se	t at	3130 Per	·f		To				
	Pay: From												
	ucing Thru												
Date	of Comple	tion:_ 4-	15-1948	Packer	r None	Sing	le-Brade Reservo	enhead-G. oir Temp.	G. or C	.0.	Dual		
	-				OBSERVE		<del></del>						
Test	ed Through	(20000000	xxtonens.x				Type Taps						
		D1	- D-4-			m	Data						
	XXERECORRO	VOLT	v Data X Press	Diff	Temp.	Tubing	Temp.	Casing D	Tem-	1	Durs	tion	
No.	(Line)	(Orifice Size	e)		1				I			Flow	
	Size	Size	psig	h <sub>w</sub>	°F.	psig	°F.	psig	<sup>o</sup> F∙		Hr	•	
SI						735		735			7	2	
1.	4		554		86	586		688			2		
2.	4	1.500			84	649		650			2		
<b>3.</b> ]	4	1.500		17.64	80	603		607	ļ		2		
4. 5.	4	1.500	532	19.36	80	572		578			2	4	
No.	13.99 52 13.99 72		h <sub>w</sub> p <sub>f</sub>	Pressure psia psia 39 83			Gravity Compres Factor Factor Fg Fpv  .9645 1.049 .9645 1.048		@ 15.025 psia 724 1.007				
3.		13.99 97.7		<del> </del>		.9813				1,356			
4. 5.	13.99	13.99 102.72			.9813		.9645	1.048		1,425			
PRESSURE CALCULATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Comparity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flux Pc 748.2 Pc 559.8									Fluid				
No •	<b>R</b> XXX Pt (psia)	Pt2	F <sub>c</sub> Q	$(F_cQ)^2$	(F <sub>C</sub>	Q) <sup>2</sup> e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	\$3. \$3.	XX XX	Ž.	XX XX	
I.	699.2	488.9					491.7	68.1					
1. 2.	653.2	426.7					439.8	120.0					
3.	616.2	379.7					384.6	175.2	<b></b>				
5.	585.2	342.5					349.5	210.3	<del> </del>				
Abso COMP			2,600 1. Olsen C		шу	n 0.61		Oklahoma					
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					REMA	RKS							

## 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
- PwI 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.
- $F_{pv}^{-}$  Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_w$  cannot be taken because of manner of completion or condition of well, then  $P_w$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_+$ .