## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Poo	ol Blanco Mesaverde				Formation	1M	Mesaverde		CountySan_Juan				
Initial X Annual Special Date of Test 6-9-61													
Company Blackwood & Nichols Lease Northeast Blanco Unit Well No. 60-7													
Unit Sec. 7 Twp. 31N Rge. 6W Purchaser El Paso Natural Gas Company													
Casi	ing 5½" W	Vt. 15	5 <u>.50</u> I	.D. <u>4</u>	<u>•995</u> Se	t at5	844! Pe	rf. 53	381	То	5786	t	
Tubing 2-3/8" Wt. 4.7 I.D. 1.99 Set at 5768' Perf. 5726' To 5738'												1	
Gas	Gas Pay: From 5338' To 5786' L xG _GL Bar.Press. 12.0												
Producing Thru: Casing Tubing X Type Well Gas  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: 6-1-61 Packer Reservoir Temp.													
Date of Completion: 6-1-61 Packer Reservoir Temp.													
OBSERVED DATA													
Tested Through (Rnever) (Choke) (Meter) Type Taps													
	75	Flow Data					Tubing		Casing I				
No.	(Prover) (Line)	(Cho	oke) fice)	Press	Diff.	Temp.	Press.	Temp.	Press.	Temp.		Duration	
	Size			psig	h <sub>w</sub>	$\circ_{\mathrm{F}}$ .	psig	o <sub>F</sub> .	psig	<sup>o</sup> F.		of Flow Hr.	
SI					<del>  "</del> -		1190		1190		├─		
].,		3/	4"	256			256		623			3 Hrs.	
2. 3.	<del></del>			<b> </b>	┼								
4.		· 		<b>-</b>	-					<del> </del>			
<b>5.</b>													
						ZT CW CAT	CULATIONS	2					
	Coeffici	Coefficient					Temp.	Gravity	Compre	ss.	Rate of Flow Q-MCFPD		
No.	(0) 11				Fac	tor	Factor						
			√ h <sub>w</sub> p <sub>f</sub>		psia	Ft		F <sub>g</sub>	Fpv	Fpv		@ 15.025 psia	
1. 2. 3. 4.	12.365			268						3314			
3.								<del></del>			<del></del>		
4													
5. ]	<del></del>												
					PRI	ESSURE CA	ALCUTATIO	ONS					
as L	iquid Hydro	carbon	Ratio	)		cf/bbl.		Speci	fic Gravi	tv Sepa	rato	r Gas	
ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid													
c(1-e <sup>-s</sup> ) $P_c = 1202 P_c^2 = 1449$													
	$P_{\mathbf{w}}$	2					2	<del></del>	2 0				
No.	Pt (psia)	$_{ m P_{t}^{2}}$	Fc	G	$(F_cQ)^2$	(F.	<sub>cQ)</sub> <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca		P <b>w</b> Pc	
1.+	It (psia)					- <del>                                    </del>	-e -)			P	w	<sup>r</sup> c	
2.													
1. 2. 3. 4.					· · · · · · · · · · · · · · · · · · ·					ļ. <u>.</u>	_		
5.			+			<del></del>			<del>-</del>	<del></del>			
Absolute Potential: 4220 MCFPD; n .75													
COMPANY Blackwood Nichols													
ADDRESS P.O. Box 1237, Durango, Colorado													
AGENT and TITLE Land Delasso Loos, Field Superintendent WITNESSED													
COMPANY													
REMARKS 1961													
REMARKS JUN 3 1961													

## 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
- $P_{\mathbf{w}}$  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.
- $h_{\mbox{\scriptsize W}}\mbox{\small I}$  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  $P_{\rm t}$ .