## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Mesaverde Formation Mesaverde County San Juan													
Initial_ X Annual_						Special Date of Test 6-27-61						L	
Company Blackwood & Nichols Lease Northeast Blanco Unit Well No. 6													
Unit Sec. 19 Twp. 31N Rge. 6W Purchaser El Paso Natural Gas Company													
Casing 5%" Wt. 15.50 I.D. 4.950 Set at 5814' Perf. 5204' To 5756'													
Tubing 2-3/8" Wt. 4.7 I.D. 1.995 Set at 5719 Perf. 5677 To 5689													
Gas Pay: From 5204 To 5756 L xG GL Bar. Press. 11.5													
Producing Thru: Casing Tubing X Type Well Gas													
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 6-19-61 Packer Reservoir Temp.													
OBSERVED DATA													
Tested Through (Choke) (Choke) (Moses)  Type Taps													
	<u></u>	Flow Da						Data	Casing Data		<b>T</b>		
No.	(Line)	(Choke) (Orifice)						Temp.			3	Ouration of Flow	
SI	Size	S:	ize ps:		h <sub>w</sub>	°F.	psig	°F.	psig	<sup>o</sup> F.	Hr.		
1.		3/4"		234			1174 234		1174 612		3 1	nours	
2. 3.		<del> </del>		<del> </del>				<del> </del>				<del></del>	
4.		<u> </u>		<del> </del>				<del> </del>		<del> </del>			
<u>4.</u> <u>5.</u>													
FLOW CALCULATIONS													
No.	Coeffici	ent		<sup>P</sup>	ressure	Flow Temp. Factor		•	, -		Rate of Flow Q-MCFPD		
	(24-Hour)		$\sqrt{h_{w} p_{\mathbf{f}}}$		psia	Ft		Fg Fpy				15.025 psia	
1. 2. 3. 4.	12.365				245.5						3035.6		
3 <sub>e</sub>											-	<del></del>	
4.													
5.1			<u> </u>										
PRESSURE CALCULATIONS													
	iquid Hydro					cf/bbl.			fic Gravi				
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid $P_c$ 1185.5 $P_c^2$ 1405													
·			`	_				- C—-					
	$P_{\mathbf{w}}$		, [_		42		.2		2 2	1	1-		
No.	Pt (psia)	Pt	$\mathbf{F}_{\mathbf{G}}$	eQ	$(F_cQ)^2$	(F <sub>0</sub>	Q) <sup>2</sup> -e <sup>-s</sup> )	$P_{w}^{2}$	$P_c^2 - P_w^2$	Ca		Pw Fc	
1.	-0 (5010)		+-				<del>~ /                                   </del>			P	<u>W</u>	- C	
1. 2.													
3. 4.					<del></del>					-	_		
<del>4</del> . 5.	<del></del>									<del>i</del>			
Absolute Potential: 3864 MCFPD; n .75  COMPANY Blackwood & Nichols Company													
ADDRESS P.O. Box 1237. Durango, Colorado													
AGENT and TITLE Original Signed DeLasso Loos, Field Superintendent												. — ———	
WITNESSED by Delasso Look COMPANY													
REMARKS													
										~867 Em# ▼	alan Dard	١	
									JL	IN3 O 19	961	)	

## 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  $\equiv$  Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). 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
- $P_{f}$  Meter pressure, psia.
- $h_{\mbox{W}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n \_ 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  $P_{\mathbf{t}}$ .