## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pocl Manco Mesaverde					Formation Mesaverde				County Rio Arriba			
Init	ial	· <u></u>	_Annual			Spec	ial	<u> </u>	_Date of	Test	une 12, 1958	
Comp	any <u>Blackw</u>	ood & N	ichols	Comp	any	Lease No.	rtheast	Mlanco Un	1t We]	L1 Nc	8-10	
Unit K Sec. 10 Twp. 30N Rge. 7W Purchaser El Paso Natural Cas Company Hung at 4828												
Fine!	fig 5= N	/t. <u>15</u> .	54 I.I	4.9	Hou 5 <b>0</b>	ng at 48 t at 55	<b>28 i</b> 2 <b>9 i</b> _ Pe	erf <b>505</b>	6'	To 54	70	
	ng 2-3/8" W											
Gas 1	Fay: From_	<u> 335<b>6</b>1</u>	To <u>54</u>	7 <b>0</b> •	_L_550	01 x	G <u>0.655</u>	=GL <b>3</b>	602	_Bar.Pre	ess. 11.5	
Prod	ucing Thru:	Casi	ing		Tu	bing	<u>x</u>	Туре We	ll Sing	le Gas	المتعققة والمتعققة والمتعققة المتعقة المتعققة والمتعققة المتعقة والمتعققة والمتعقة والمتعققة والمتعقة	
	Racompl	etion.					Sin	gle-Brade	nhead-G.	G. or G	.U. vaai	
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1=500	ed Through				(Meter)						an the silver and the	
	(Prover)		ow Dat	ata Press. Diff		Temp.		Data Temp.	Casing I		kurstion	
Nc.	(Line) Size	(Orifi Siz		psig	h <sub>w</sub>	o <sub>F</sub> .	psig	°F.	psig	J.E.*	of Flow Hi	
SI				77-8	W		942		Of it			
1,		3/4					335		742	<b></b>	3 hours	
2 <b>.</b> 3		<del> </del>	<del></del>				······································	<del> </del>		<del> </del>		
4.												
5.		<u> </u>						<u> </u>	<u></u>	<u> </u>		
	Coeffici	ent.		Pro	essure	FLOW CAL		Gravity	Compre	ess.	nate of flow	
Nc.				_	Trossure 1		• 1	Factor	<u> </u>		Q-MCPPD	
	(24-Hou	4-Hour) $\sqrt{h_v}$		p <sub>f</sub> psia		$\mathtt{F_t}$		Fg				
1.	12.3650			346.5							4284	
2.												
3.	<del></del>			$\rightarrow$					<del></del>			
4. 5.												
					PR	ESSURE C	ALCUFATI	ONS				
las I.	iquid Hydro	ca rhon	Ratio			cf/bbl.		Speci	fic Gravi	t.v. Sena	rator Gas_	
	cy of Liqui		carbon	s		deg.		Speci	fic Gravi	ty Flow	ring Fluid	
`c		<del> </del>	(1-	e <b>-</b> 5)				P <sub>c</sub>	955.5	_Pc_ <b>91</b>	3 x 10 <sup>3</sup>	
$\Box$	$P_{\mathbf{w}}$	2	T		. ^		.2		2 0			
No.	Pt (psia)	$P_{t}^{2}$	F <sub>c</sub> Q		$(F_cQ)^2$	(F,	Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$	- Ca	1. P <sub>W</sub>	
<del></del>	346.5						568	345	345 0.7			
1/2. 3.										<del>                                     </del>		
14. 5.												
5 <b>.</b> [												
Absolute Potential: 8372 MCFPD; n 0.75												
COMPANY BLACKWOOD & NICHOLS COMPANY ADDRESS F.G. BOX 1237. DEHANGO. COLORADO												
ADDRESS F.C. BOX 1237. DURANGO. COLORADO  AGENT and TITLE W. J. Linton, Petroleum Engineer												
WITTNE COMPA	ESSED		00								Pilling - 2 Marie	

## 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.
- $P_c$ 2 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. sia
- $P_{w}$  Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{w}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  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  $P_{\mathbf{t}}$ .