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Form C-122 Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Blanco M	esaverde	F	ormation_	Mesav	erde		_County	Rio Ar	riba
Init	ial After W	o <b>rkover</b> Annu	al		Spec	ial		_Date of	Test	7-24-66
Company Blackwood & Nichols Lease Northeast Blanco Unit Well No. 4										
Unit Sec. 21 Twp. 30M Rge. 7W Purchaser El Pasc Natural Gas Company										
Casi	ng 41/2" W	t. <u>10.<b>5</b>0</u> I	.D. <u>4.</u>	052" Set	t at <u>59</u>	981 Per	·f• <u>5460</u>		To 59	9701
Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 5916 Perf. 5880 To 5886										
Gas Pay: From 5460! To 5970! L 5970! xG 655 _GL 3910 Bar. Press. 11.5										
Producing Thru: Casing Tubing X Type Well Single - Gas										
Date	Recomple of Wanpdark	tion took 6-25	-66	Packer	r	Sing	gle-Brade _Reservo	nhead-G. ir Temp	G. or C	i.O. Dual
	-		· · · · · · · · · · · · · · · · · · ·			ED DATA				
Test	ed Through	(Browerx) (	Choke)	(Network)				Туре Тар	s	
		Flow D		T 2:00 I		Tubing		Casing D		Duration
No.	(Prover) (Line)	(Choke) (Orifice)					Temp.		_	of Flow
	Size	Size	psig	h <sub>w</sub>	°F.	psig	° <sub>F</sub> ,	psig	°F∙	Hr.
SI l.		3/411	-	-		8 <b>35</b> 328		835 743	<del>                                     </del>	3 hrs.
2.										
<u>3.</u>			<del> </del>	ļ	-				<del> </del>	
4. 5.			<del> </del>							
No.	Coefficient $(24-\text{Hour})  \sqrt{h_{W}p_{f}}$				FLOW CALCULATIO Flow Temp. Factor Ft		Gravity Compr		or Q-MCFPD	
1. 2. 3. 4.	12.3650		339.5							4198
2.					····					
4.										
5.										
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc(1-e^{-5}) Pc 717										
No.	$P_{\mathbf{W}}$	Pt I	r <sub>c</sub> Q	$(F_cQ)^2$	! (F	(0)2	P <sub>w</sub> 2	$P_c^2 - P_w^2$	С	al. P.
	Pt (psia)	't '	c ·	(104)	()	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	569	148		al. P <sub>w</sub> P <sub>c</sub>
$\frac{1}{2}$ .							709	140		
3.										
1. 2. 3. 4. 5.									<del>-i</del>	
Absolute Potential: 13751 MCFPD; n .75  COMPANY Blackwood & Nichols Company  ADDRESS P. O. Box 1237, Durango, Colorado 81301 Original Signal  AGENT and TITLE Field Superintendent, Delasso Loss by Delasso Loss										
	NESSED PANY								*FH	140
REMARKS  REMARKS  RUG'3 1966  AUG'3 COM.										

## 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 T Actual rate of flow at end of flow period at W. H. working pressure ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 600 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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mathbf{W}}^{\mathsf{T}}$  Differential meter pressure, inches water.
- $F_g = Gravity$  correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{nv}$  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  $P_{\mathbf{t}}$ .