MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Mesaverde					Formation Mesaverde				County San Juan				
Initial After Workover Annual Special Date of Test August 15, 1969													
Company Blackwood & Nichols Lease Northeast Blanco Unit Well No. 30													
Unit A Sec. 12 Twp. 30N Rge. 8W Purchaser El Paso Natural Gas Company													
Cas	ing <u>4" Lin</u> er	t. <u>9.1</u>	1I	.D. <u>3.</u>	50Se	t at <u>4782</u>	at 4782-5648 Perf. 51			To <u>562</u>	28'		
Tubing 2 3/8" Wt. 4.74 I.D. 1.995 Set at 5514' Perf. 5478' To 5484'													
Gas Pay: From 5158' To 5628' L xG _GL Bar. Press													
Prod	Producing Thru: Casing Tubing x Type Well Gas Single-Bradenhead-G. G. or G.O. Dual												
Date	Date of Completion: August 8. 1969 Packer Reservoir Temp.												
OBSERVED DATA													
Tested Through (Choke) (Mater) Type Taps													
	(Provon)	Flow Da (Choke)		ata Proce	Diff	Temp	Tubing		Casing D	ata Tempa	Duration		
No.	(Line)	(Orifice)						°F.	psig		of Flow		
SI	Size	51	ze 	psig	h _w	r.	715	F 4	715		 		
1.		3/4	1 11				275		640		3 Hrs.		
2 . 3 .													
4.													
5.				ļ	<u></u> _			L	<u></u>	J	<u> </u>		
	FLOW CALCULATIONS												
No.	Coefficient (24-Hour)				1	Fac	tor	Factor	Compre Facto F _{pv}	r	Q-MCFPD		
1. 2. 3. 4. 5.	12.3650				287						3549		
3.													
4.													
PRESSURE CALCULATIONS Specific Gravity Separator Gas Fravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid													
rc(1-e^-s)													
No.	P _w Pt (psia)	$P_{\mathbf{t}}^2$	F	_c Q	$(F_cQ)^2$	(F	(cQ) ² -e-s)	P _w 2	P _c ² -P _w ²	Ca	il.	Р <u>w</u> Р _С	
Ţ.	-0 (1323)		_					410	118_			.776	
2.		,								 	- i		
1. 2. 3. 4. 5.											I		
5.									L				
	olute Potent PANY <u>Bla</u>					MCFPD;	n	.75					
ADDRESS P.O. Box 1237 Derango, Colorado 81301 AGENT and TITLE Delasso Loos, Field Sworf standen													
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COM	PANY						ADVC				1 LL	٠+	
REMARKS AUG 18 1969 OIL CON. 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 I 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
- $P_{\mathbf{w}}$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- Ft_{-} 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 $P_{\mathbf{t}}$.