Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	ool Harco Masaverde				F	Formation Meaverde				County Ro Arriba				
Initial Annual Special Y Date of Test June 12. 19													2, 1958	
Company Mackwood & Nichols Company Lease N E Blanco Unit Well No. Morrell 2-B														
Unit X Sec. 3 Twp. 30% Rge. 7% Purchaser K1 Pago Katural Gas Company														
Casing 41 Wt. 9 4 I.D. 4.00 Set at 46201 Perf. 51171 To 48841														
Tub	ing_ <u>2</u> _	3/8° V	Vt	74 _I	.D. 1.9	1.995 Set at 55021			Perf			0 54601		
Gas	Gas Pay: From 5171 To 558ht L 5600: xG 655 _GL 3668 Bar. Press. 11.5													
Pro	ducing	Thru:	: Ca:	sing		Tu	bing	1	Type We	ell Sin enhead-G.	la Ges			
Dat	e of ¶	Recor	pletic	on May 21	1958	Packe	r	Sin	gle-Brade Reservo	enhead-G. oir Temp.	G. or	G.O. 1	Dual	
	OBSERVED DATA													
Tes	ted Th	rough	(Pro	<u>ver) (</u>	Choke)	(Mefter)				Type Taps				
Flow Data									ubing Data Casing Data					
No.		over) ine)		oke) Tice)			Temp.		Temp.	Press.	Temp.		Duration of Flow	
		Size	1 '			h _w	°F.	psig	°F.	psig	°F∙	<u> </u>	Hr.	
SI 1.		3/4						928 297		928 6 83		3 hours		
2.			71-									7		
3. 4.			<u>' </u>	-		 					†	+		
5.														
							FLOW CAL	CULATION	S					
No.		effici	fficient			Pressure Flow Temp			•	Compress. Rate of Flo Factor Q-MCFPD				
NO	(24-Hour)		ır)	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia			Fg	Fpv		@ 15.025 psia		
1. 2.	12.3650					308.5							3815	
3.														
4. 5.														
						DD	regimer c	ALCULATIO	OM S					
								KTOO-WIT.						
			carbor d Hydr				cf/bbl. deg.			fic Gravi fic Gravi				
Gravity of Liquid Hydrocarbons_ C(1-e-						3)			P _c	939.5	Pc_8	83	x 103	
No.	$P_{\mathbf{w}}$		Pt	F	a	$(F_cQ)^2$	(F	c^{Q}	P _w 2	$P_c^2 - P_w^2$	C	al.	p	
	P <u>t</u> (psia)			:* 	(1. C.A.)	(1)	c♥/ -e ^{-s})	1 W~	CM		Pw	Pw Pc	
1. 2.	308	5							482	401			0.739	
3.														
4. 5.											 			
	olute	——— Potent		689		······································	MCFPD.	n 0.75		 				
COM	PANY	Rec	hoor	Mich	els Co			Va73					·	
	RESS_ NT and	P.O. TITLE	Box 1		Onran Inte	go, Col	orado	W 7 7	dudon D	trolows	Paulus			
WITT	NESSED			4 4					THEND .	10-5110				
COM	PANY						REM	ARKS		APE!	111	`		
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									1	JUN 27	1958)		
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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 60° 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
- P_t Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_{f} Meter pressure, psia.
- $h_{\boldsymbol{W}^{\square}}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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_{+} .