MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Poo!	Pool Rlanco Mesa Verde					mation	M	•	County Rio Arriba					
Initial Yes Annual Special Date of Test 9-30-63														
Company Caulkins Oil Company Lease Breech HEH Well No. 10 6.														
Unit A Sec. 1 Twp. 26 N Rge. 6 W Purchaser F1 Page Natural Gas Company 15.5 Casing 51 Wt. 17.0 I.D. 4.95 Set at 7711 Perf. 4924 To 5482														
Cas	ing 51 W	15 t. <u>17</u>	.5 .0I	.D	4.5	9 5 Se1	t at_77	Pe	erf49	24	To	5482		
Tubing 12 Wt. 2.4 I.D. 1.3 Set at 53 74 Perf. 5374 To														
Gas	Gas Pay: From 1921 To 5182 L 5371 xG 600 -GL 3289 Bar. Press. 12													
Pro	ducing Thru:	Cas	sing			Tul	oing	Yes	Type We	11	- Cos	Duel .		
Date	e of Complet	ion:_	9-1 8	<u>-63</u>		_Packer	r7340	51r	ngie-Brade Reservo	nnead-G. ir Temp	1500	7.0. I		
							OBSERV	ED DATA						
Tested Through (Choke) (Medewax Type Taps														
	Flow Data									Casing D	ata	T		
No.					35.	Diff.	Temp.	Press	Temp.	Press.	Temp.]	Duration of Flow	
110 6	Size	S	ize	psi	ig	h _w	\circ_{F} .	psig	°F.	psig	[⊃] F•		Hr.	
SI								990		989			iay SI	
1. 2.		3/	4 H	-	+			93	 	649	 	1-3-1	OUPS	
3.					\Box									
4. 5.			<u>-</u>	-	-+							 		
		<u>. </u>		-				 -	_ 	L	<u> </u>	-		
 1	Cooffici	ont	 					CULATION		Compre		Rate	of Flow	
No.	Coefficient					ssure	Flow Temp. Factor Ft		Factor	Factor Fpv		Q-MCFPD @ 15.025 psia		
	(24-Hou	ur) $\sqrt{h_W}$		$^{\mathrm{p}_{\mathbf{f}}}$	of psia				F _g					
1. 2.	14.1605				105		1.000		1,000	1.010		1502		
3.														
4. 5.														
<u> </u>			<u> </u>											
						PR	ESSURE C	ALCU AT	IONS					
	Liquid Hydro						cf/bbl.						r Gas600	
	ity of Liqui	d Hyd:	rocarb /	ons 1-e ^{-s}	3 \		deg.			fic Gravi				
' c				T -6 -				-	rc	1002	_rc	- Ulif	UCM	
	- <u> </u>									γ				
No.	P _w	P	2 F	_c Q		$(F_cQ)^2$	(F	$(cQ)^2$ $-e^{-s}$	P_w^2	$P_c^2 - P_w^2$	C.	al.	P _w P _c	
	Pt (psia)						(1	_e-s)				P w		
1. 2.					+				436,921	567,083	+		.659	
3.														
4. 5.					-						-			
	olute Potent	ial·	220	1			MCFPD.	n /1	77) ⁿ 1.53					
COM	PANYCaull		M1 Co:							47				
	RESS po	Box	780,	i gani	ngt	on, Ner	· Mexico							
WIT	NT and TITLE NESSED_		we!	1 dA	arj	Super	rintende	nt						
COM	PANY						DEN	MARKS			Af	[/ 1		
							UEF	CANA			/RLL	Li A		
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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 \equiv 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 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}^{\top}$ 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.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize -}$ Differential meter pressure, inches water.
- F_g Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If P_{W} cannot be taken because of manner of completion or condition of well, then P_{W} must be calculated by adding the pressure drop due to friction within the flow string to P_{t} .