MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

				MIII MT	ротым	DAGIC POTO	OUTS TO	em Bon di				Form C-12
Poo	l Besin	Dakot	8					ST FOR GAS				
	tial											
	pany PAN AM											
	t <u> </u>							haser				
	ing 4-1/2							Jet	harfe at	6164-61 To 61	66-6166 72	-6162
	ing 2-3/8											
	Pay: From											
Date	ducing Thro	etion:	12-3	-44	Packe	er #	Sin	gle-Brade Reservo	nhead-G.	G. or (3.0. Du	al
		•					ED DATA		ir remp.			
[est	ted Through	n <u>(FF</u>	Wer) (Choke)	(Meter)		MIW OFF		Type Ta	ps_		
			Flow D	ata			Tubing	Data	Casing			
No.	(Line)) (Ch	noke)		Diff.	Temp.	Press.	Temp.	Press.	Temp.	1	uration of Flow
27	Size 7 days		Size	psig	h _w	°F.	psig	o _F ,	psig	°F∙		Hr.
1.	I Lach	-	730	478			2034 478	60° act.	2033 1013	-	3 Hr	<u> </u>
2 . [
•••		İ								 	<u> </u>	
No.	Coeffic	Coefficient		Pr			CULATIONS Temp.	Gravity Compre		•		
	(24 - Ho	ur)	ır) $\sqrt{h_{W}}$		psia	F	ŧ	Fg	F _{pv}		@ 15.025 psia	
2.	13,3650				490	1.000		.9238	1.0	18		
			<u> </u>						_			
•												
	iquid Hydr ty of Liqu		rocarbo			essure carefolder.	ALCUIATIO	Speci	fic Gravi	ity Sepa	rator (Gas
0.	P _w	P	2 Fo	Q	$(F_cQ)^2$	(F.	Q) ²	P _w 2	$P_c^2 - P_w^2$	Ca	1.	P _w P _c
:	· (hara)					(1-		50,625	, 139, 504	P,	W	r _c
•		+		—— <u> </u>								
•									···-	+		
bso OMP	lute Poten		CAN TE	397 TROLEN		MCFPD;	n_ •	75				
ואממ	ESST and TITL	r 450,	70 SELL	grau, i	IN HAR					11 11		
I:TNI	ESSED								CAFFT.	WW	<u> </u>	
OMPA	ANY		F. W.	SIGNED BY Foell		REMA	RKS		Krpr	± 1964		

Un	it	Sec	36 Tv	vp 31	Rg	e. 13 W	Pur	chaser_				
	sing 4-1/2 V							-		To 61	66-6160-6162 72	
	oing 2-3/8 V											
	s Pay: From											
Na+	oducing Thru: te of Complet	ion.	12-3	-64	Pagles		Si	ngle-Brade	enhead-G.	G. or	G.O. Dual	
Dat	oc or combred	,1011			racke				olr Temp.			
						OBSER V	ED DATA	•				
Tes	Tested Through (Trover) (Choke) (Meter) Type Taps											
_				ata				g Data	Casing I		I	
No.	(Line)		oke)	Press.	Diff.	Temp.	Press	· Temp.	Press.	Temp.	Duration of Flow	
	Size			psig	h _w	°F.	psig	o _F .	psig	°F.	Hr.	
SI 1.	7 days		730	478			2034 478		2035			
2.							4/4	60° est.	Ter?	 	3 Mrs.	
3. 4.		<u> </u>										
5.	<u> </u>							<u> </u>				
					F	LOW CAL	CULATIO	NS				
No.	Coefficient					Flow Temp.		Gravity	, -		Rate of Flow	
MO	(24-Hour)		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		osia	Fact F _t		Factor F _g	Facto F _{pv}		Q-MCFPD @ 15.025 psia	
1.	12,3630	, V W1		390		1.0000		.9258	1.06		5957	
2 . 3.												
4.												
5.												
					PRE	SSURE CA	LCUI AT	IONS				
	Liquid Hydro					cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc P2 P2									ring Fluid			
- U			\`					' c		' c		
Т	$P_{\mathbf{W}}$					-						
No.	Pt (psia)	$P_{\mathbf{t}}^{2}$	F	Q.	$(F_cQ)^2$	(Fc	Q) ² -e ^{-s})	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca	P _W	
1.	Tt (psia)						e 0)	050,625	3 , 139, 504		W Pc	
1. 2. 3.			— —									
4.												
5.			 1	397				.75				
COME	PANY	1.00	CAS - 71	That su	CORFOR	MCFPD;	n					
	RESS	7. 6		grau, i	SATES B	erikaer Milkaer				17		
WITNESSED ORIGINAL CO.										3		
COME	COMPANY F. W. Foell REMARKS								KLULITE			
DEC 1 5 1904												
									OIL CON.			
									DIST.			
									The state of the s			

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
- 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fny Supercompressability factor.
- n : Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.