1957 FEB 7 AM 9:57 Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

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Initial Annual Annual				Special X			Date of Test_12-13-16/1-1-5		
ompanyR	Olean	(Persona)	Ŋ	Lease Hodg	<u> </u>	Wel	ll No	2	
nit D	_Sec	8 Twp	24 R	ge 97 P	urchaser	EPM1			
			1	et at 2871					
				et at 3070					
			: 1	70 xG 0					
				ubing X			_		
te of Compl	etion:	8-23-1954	Pack	er	Single-Brade Reservo	enhead-G. oir Temp.	G. or G.C	Dual	
				OBSERVED DA		_			
sted Throug	h (E		🕦) (Meter)		Type Tap	s_ Plane	•	
	F	low Data		Tub	ing Data	Casing I)ata		
(Line)				. Temp. Pre	ss. Temp.	Press.	Temp.	Duration of Flow	
Size			sig h _w	o _F . ps	ig °F.	psig -	°F∙	Hr.	
4	1.50	971	24.0	84 861			 -	- 72 24	
4	1,50	0 550	43.6	79 835				24	
4	1,50			77 817			 	24	
4	1970	370	85.6	76 782			+		
		•		FLOW CALCULAT	TONS				
Coefficient		····	Pressure Flow Temp.		Gravity	Gravity Compr		ess. Rate of Flow	
(2h-Hour)		- / h n-	neis	Factor	Factor	Factor F _{pv}		Q-MCFPD	
13999		V "wPf	pola	9777	.9463	1.056		419	
13.99		156,60		.9822	.9463	1.057		162	
13.99		178.75		,9822 ,9840	.9463	1.057	2	163	
13,99		219.48	 	.9850	-9463	1.057		026	
Liquid Hyd vity of Liq			77	RESSURE CALCUI. cf/bbl. deg.	Speci Speci	fic Gravi	ty Separa ty Flowin		
Pt (psia		F _c Q	(F _c Q)	(1-e ^{-s})	P _w 2	$P_c^2-P_w^2$	Cal.	Pc	
848.2	764.2	9.5	158.8	21.0	7/6.1	97.4	840.4	0.956	
830.2	669.2	24-4	207.4	27.4	736.6	117.3	844.5	0.907	
795,2	632.3	17.8	336.8	Al-8	674.3	159,8	273.0	0.868	
solute Pote MPANY_ DRESS_ ENT and TIT	R. dre			MCFPD; n	.556				
MPANY	127	de der							
			4 (1	REMARKS				D	
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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
- Pw 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I 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 $P_{\rm t}$.