Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	l Jalm	at		F	'ormatior	Yate	.		County	Lea	8 £	
											12-10/12-14-56	
Com	pany Skell	ly 011	Company		Lease Coates				Well No. 2			
											Gas Company	
	ing 7 "											
Tub	ing 2"	Wt	7 # I.D	· <u> </u>	.995 Se	t at 31	118 F	erf		To		
Gas Pay: From 3204' To 3222' L 3118' xG 0.665 GL 2073 Bar. Press. 13.2												
Pro	ducing Thru	: Ca	sing		Tu	bing	X	Type We	ell <u>Sin</u>	gle		
Date	Producing Thru: Casing Tubing X Type Well Single Single-Bradenhead-G. G. or G.O. Dual Packer 3051 Reservoir Temp.											
	•								o11 10mp.	·		
						OBSERV	/ED DATA					
Test	ted Through	PATE	dentàx (Chr	kara)	(Meter)				Type Tap	s		
Flow Data					Tub			ing Data Casing Data				
No.	(Line)		, ,	ess.	Diff.	Temp.		· Temp.			i e	
NO.	Size	1 '	ze r	sig	h _w	\circ_{F} .	psig	°F.	psig	°F.	of Flow Hr.	
SI					, , , , , , , , , , , , , , , , , , ,		378		1 - 0		72	
1. 2. 3.	<u> </u>	1.00		38	10.24		352				21	
3.	4	1.00		3 9 45	15.21 27.04		327 297				24	
4.	4	1.00		44	50.41	64	246			 	24	
4. 5.												
					7	TLOW CAT	CULATIO	NS				
	Coefficient (24-Hour)						Temp.	Gravity	avity Compress. Rate of 1		Rate of Flow	
No.					1	Fac	tor	Pactor	Factor F _{pv}		Q-MCFPD @ 15.025 psia	
		ir)	$\sqrt{h_{W}p_{f}}$			Ft		řg_				
1. 2.	6.135 6.135		50.70			1.0039		0.9498			304	
3.	6.135		61.91 83.52		0.9990			0.9498			370 499	
4.	6.135	6.135		113,82		0.9962		0.9498	0.9498 1.026 0.9498 1.026			
4. . 5 .						0.7702		V • 7470	1.020	<u> </u>		
												
					PRI	ESSURE C	ALCUIAT]	LONE				
Gas L	iquid Hydro	carbon	Ratio			cf/bbl.		Speci	fic Gravit	ty Sepa	rator Gas	
Gravi	ty of Liqui 9.936	d Hydr.	ocarbons		73 7 3 9	deg.		Epeci	fic Gravit	ty Flow	ing Fluid	
c	7.730		(1 - e	-5/_	0.133			P _c _39	1.2	P _c 15	3.0	
	$P_{\mathbf{w}}$	2			2		2		2 0			
No.	D (·)	$P_{\mathbf{t}}^2$	F _c Q		$(F_cQ)^2$	(F	$c^{Q})^{2}$	P _w 2	$P_c^2 - P_w^2$	Ca		
- 	Pt (psia)	133.4	3.02		9.12		-6 0)	134.6	18.4	P,	w Pc	
1. 2. 3. 4.	365.2 340.2	115.7			3.54	1.		117.5	35.5	 		
3.	31.0.2	96.2	4.96		4.60	3.		99.5	53.5		- 	
4.	259.2	67.2			5.29	6.	0	73.2	79.8	<u> </u>		
5.												
Abso.	lute Potent ANY Skelly	ial:	1,100			_MCFPD;	n_ 0.7	742				
	ESS Box 38			A-7 A								
	T and TITLE		-, nen n	ex. C	 							
	ESSED											
COMP												
						REM	ARKS					

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 cf at least three inch cycles.

NOMENCLATURE

- Q = 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.
- Pc 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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 $P_{\mathbf{t}}$.