MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Formation Queen County Lea

Pool _	Exposit		Fo	rmation	Queer	3		_County	Lea		
Initia	X	Annu	al		Spec:	ial		_Date of '	Test	-21/22-59	
		011 Corpor									
Unit	_ N S	ecTw	p. 228	Rge	e. 36 E	Purch	naser Per	mian Besi	a Pipel	ine Co.	
		tI									
		t. 4.7 I									
	V	2682 To									
		Casing_		•							
		ion: 8-27				Sing	zle-Brade	nhead-G. (G. or (3.0. Dual	
Dauc (J. Compres	1011.				ED DATA					
Tester	i Through	(Proven) (Chako)	(Meter)		DD DRIN		Type Tap	s P	lpe	
	2 Illiough	Flow Data				Tubing Data		Casing Data		T	
	(Prover)	(Choke)		Diff.	Temp.			Press.		Duration	
	(Line)	(Orifice)				psig				of Flow	
	Size	Size	psig	n _w	Γ•						
SI		2.00	350.0	E 1.	66	908.7 864.4		910.2 873.6		69	
1. 2. 3.	4	2,00	392.1		61	810.5		638.4		+ 3	
3.		2,00	349.8		41	747.5		806.7		3	
4. 5.	4	2.00	348.5	26,3	67	663.3		770.0		3	
<u>5. l</u>	4	2,60	360.9	21.2	64	611.1		720.5	<u>l</u>	24,	
						CULATION					
	Coefficient		Pr			Temp. Gravit					
No.	(2) Have	-\ \ \ \ \ \ \ \	7		Fact		tor Factor		r	Q-M U!!PU @ 15.025 nsia	
										@ 15.025 psia	
1. 2.	29.92		.28 .21	×3.2	.994	3	.9292	1.03	6 1,041 8 1,044	1266	
3.	29,92	90	77	65.3 63.0	.999	× -	.9292		7,044	2354	
	29,92 29,92	97	53	61.7	•999 •999	6	.9292 .9292	1.03		2009	
<u>4.</u> 5.	29.92		06 374.1		.9962		,9292	9292 1.039		2563	
				מם	्यवाष्ट्रभ	ALCU ATI	ONS				
				rn.	ESSUIES O	VTOO.WIT.	ONO				
as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity											
ravity of Liquid Hydrocarbons						deg. Spec			ific Gravity Flowing Fluid 923.4 P _C 852.7		
c	masured	((1-e ^{-s})				Pc	74,704	rc	0,564 (
			- γ					γ			
No.	P _w	P_{t}^{2} F	_c o	$(F_cQ)^2$	(F	0)2	P_w^2	$P_c^2 - P_w^2$	C	al. Pw	
	Pt (psia)	't '	c	(T. C.	\(\frac{1}{1}\)	$\left(\frac{cQ}{c^{-2}}\right)^2$	* W~	1 C W		al. P _W P _C P _C	
	8.383						786.4	66.3	+	.96	
	851.6						725-2	127.5		.92	
3.	£119.9						672.2	180.5		.69	
4.	783.2						613.4	239.3	- 		
	733.7	L					534.3	314.4			
		Colf Off C			MCFPD;	n	615				
COMPAI ADDRE		Box 2167.									
	and TITLE		An		Gas Te	ester					
WITNE		J. D.									
COMPA				n Pineli	ne Co.						
					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 of at least three inch cycles.

NOMENCLATURE

- Q = 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.
- F_g Gravity correction factor.
- Ft 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_{+} .