MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Parries	d	12-	۱-5	5

Poo	1 Under	rt grach	nd.	F	ormation		akota		County	San.	Jan
Ini	tial		Annu	al		Spec	ial	771	Date of	Test	4/22/60
Com	pany Astec	041 4	Gas C	THE PERSON		Lease	Bypod		Wel	1 No	5
Uni	t <u>P</u>	Sec1	19 Tw	o. 2	Rg Rg	e. 19	Pu	chaser			
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	ing 2 3/8										
	Pay: From										
	ducing Thru										
Date	e of Complet	tion:_	4/14/	50	Packe	r in	Si	ngle-Brad Reserve	enhead-G. (oir Temp.	G. or G	.O. Dual
							ED DATA		• -		
Test	ted Through	******		lhoke)					Type Tap:	e	
			low Da				Tubir	g Data	Casing Da		-
No.	(Prover) (Line)	(Chc		Press	Diff.	Temp.		. Temp.	Press.		
	Size			psig	h _w	°F.	psig	o _F ,	psig	³r∙	of Flow Hr.
SI 1.	"	0.	790				8035 338	60	\$032 501		7 days 3 hours
2.											
3. 4.	· · · · · · · · · · · · · · · · · · ·	 									
5.											
						FLOW CAL	CULATIO	NS			
No.	Coeffici	.ent		Pr	essure		- 1	Gravity	, -	1	Rate of Flow
NO.	(24-Hou	ır)	$\sqrt{h_{\mathbf{w}}p}$) f	psia	rac F	tor	Factor F _g	Factor F _{pv}		Q-MCFPD @ 15.025 psia
1. 2.	12.359		γ	L	130	1,0000		0.9608	1,0		1955
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5.											
					PRI	ESSURE CA	ALCU AT	IONS			
Gas I	iquid Hydro	carbon	Ratio	•		cf/bbl.		Speci	fic Gravit	v Sena	rator Gas
	ty of Liqui		ocarbo	ns		deg.		Speci	fic Gravit	y Flow	ing Fluid
'c			(1	-е ^{-s})				Pc	9044	Pc	.177.936
									γ 		
No.	$P_{\mathbf{W}}$	$P_{\mathbf{t}}^{2}$	Fc	Q	$(F_cQ)^2$	(F.	Q) ²	P _w 2	$P_c^2 - P_w^2$	Ca	P
	Pt (psia)	Ü	C			(1	-e-s)			P,	Pw Pc
$\frac{1}{2}$	523							263,169	3.914,76		
3.											
1. 2. 3. 4.										†	
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	lute Potent			1644		MCFPD;	n	0.75			
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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
- 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
- P_{f} Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} 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 $P_{\rm t}$.

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