MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-5	5

Poo	Basin	Dakota	F	ormation	Dako	ta	·	_County_	San Ju	an	
Ini	tial	Anr	ual		Spec	ial		_Date of	Test_1	1-14-60	
	apany Ohi										
							•				
Unit P Sec. 26 Twp 28N Rge. 11W Purchaser Casing 5½ Wt. 17 I.D. 4892 Set at 6220 Perf. 5990 To 6189											
Tubing 2 3/8 Wt. 4.7 I.D. 1995 Set at 6130 Perf. 6100 To 6130											
Gas Pay: From 5990 To 6189 L xG _GL Bar.Press. 12											
Producing Thru: Casing Tubing X Type Well Single-Gas Date of Completion: 11-4-60 Packer No Reservoir Temp.											
					OBSERV	ED DATA					
Tes	ted Through	(Proter)	(Choke)	<u> ÁNGER</u>)				Туре Тар	'S		
	(D)	Flow		Dicel	<u></u>	Tubing		Casing D		Donation	
No.	(Line)	(Choke) (Orifice)			Temp.		Temp.	Press.		of Flow	
T _{ST}	Size	Size	psig	h _w	° _{F•}	psig 2044	o _F .	psig 2051	°F∙	Hr.	
SI 1. 2.		3/4	459		82	453	80	2051		3 hours	
2. 3.								<u> </u>			
<u>4.</u> 5.			 								
					LOW CAL	CULATIONS	3				
No.	No I			ressure Flow Ter		Temp.				ess. Rate of Flow	
	$(24-Hour)$ $\sqrt{24}$		w ^p f	psia	F	t	Fg	F _p v		@ 15.025 psia	
1. 2.	12,3650			471	•9795		9463	1.04	6	5647	
3. 4.											
4. 5.											
				PRE	ESSURE CA	ALCU ATIC	ons				
	Liquid Hydro				cf/bbl.					rator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid P _c 2063 P ² 4256											
<u> </u>							U		- 		
No.	$P_{\mathbf{w}}$	Pt ²	F _c Q	$(F_cQ)^2$	(F	₋₀)2	P _w 2	$P_c^2 - P_w^2$	Ca	1. P.	
	Pt (psia)	- т	C		(1	c ^{Q)²} -e ^{-s})			1	w Pc	
1. 2. 3. 4. 5.	1193						1423	2833		.5783	
3. i								· 	 	_ 	
5.											
	olute Potent	ial:	662	·	_MCFPD;	n_0,75					
COMPANYADDRESS											
AGENT and TITLE MW unness. Consulting Engineer WITNESSED W. A. Pos											
	nesseu <u>zi</u> Pany	<u> </u>	<i>0</i> ·			Poe	any	3	UFF		
				_	REM	ARKS		Ο ₁ ,	1	19 ₆₀	
	Ass	umed gas	gravit	y to be	• U.67.	•			DIST.	1960 COM.	
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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 = 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_cI 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.
- 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 $P_{\mathbf{t}}$.