## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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WATER C.	$\alpha$	٦.	1/	_ 1	 

Pool	Undesign	ated D	akota	Fo	rmation	Dako	La .		County	Rio Arr	iba
Init	ial X		Annu	al		Spec	ial	····	Date of T	Cest Apr	11 2, 1960
									<b>147</b> Well		
									outhern Uni		
Casi	ng <b>4-1/2</b>	Wt.	1.6 0.5 I	.D. 4.1	000 ogn Set	at 75	••• Pei	rf . 71/	<b>56</b>	[o 7] <b>a</b>	4
							•		Ne	<b>100 A</b>	
									<b>5006</b> E		
Date	of Comple	etion•	2_12	-60	Packer	in and	Sing	le-Brade	ell <b>Sinc</b> enhead-G. Coir Temp.	or G.	O. Dual
5.200	or compre				acker		ED DATA	_neser ve	orr remb. —	<u> </u>	
<b>T</b> +	ad Massacs	(		n	400	OBSERVI	SD DATA				
1680	ed Through								Type Taps		
$\neg \top$	(Pressure	(Ch	Flow Da oke)	Press.	Diff.	Temp.	Tubing Press.	Data Temp.	Casing Da		Duration
No.	(Line) Size	S	ize	1			psig			o <sub>F</sub> .	of Flow Hr.
SI	31 k7	days					2321		2321		
2.		3/4	4	126	6	O (est)	128		459		3 hr.
3.								<del></del>			
5. 1											
	Coeffic	ient		Pre			CULATIONS Cemp.		Compres	s. Ra	ate of Flow
No.	(24-Hc	ur)	hwp	—   Pf   F	sia	Fact F+	or	Factor F <sub>g</sub>	Factor F <sub>pv</sub>	. (	Q-MCFPD 15.025 psia
1,	12,365				1.38	1,000	<u></u>	.9258	1.01		1603
1. 2. 3. 4.		· · · · · · · · · · · · · · · · · · ·									
5.											
					PRE	SSURE CA	LCULATIO	ns			
	iquid Hydr					cf/bbl.			fic Gravit		
	ty of Liqu	•		ns -e <sup>-s</sup> )	<del></del>	deg.		Speci Pc_2	fic Gravit	y Flowin	ng Fluid
								U			
No.	$P_{\mathbf{w}}$	Pt	F <sub>C</sub>	Q	$(F_cQ)^2$	(Fa	Q) <sup>2</sup> e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	Cal	P
<del>-  </del> -	Pt (psia)	ļ	, , ,			(1-		2 <del>1,841</del>	5,221,048	Pw	P <sub>w</sub> P <sub>c</sub>
1 2 3 4 5		<del> </del>									
4.											
	Lute Poten	tial:	1654			MCFPD:	n .75		<u></u>	<u> </u>	
	ANY Pan A					on				<del> </del>	
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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<sub>W</sub>). 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
- P<sub>f</sub> Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- F<sub>nv</sub> 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  $P_{\mathbf{t}}$ .

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