## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	1	Bas	da			_Fo	rmation		<u>D</u>	kota		_County_	San .	Passa		
Ini	tial_	I		Annı	al_				Speci	al		_Date of	Test_	2~6	-61	
Com	pany_	tonset	Inte	matie	ml 7	etr	alom C		e	Peda	rel	We	ll No	10-	3.8	
Uni	t		Sec	18 Tv	mp	261	Rg	e	10V	Purc	haser			<del>.</del>		
Cas	ing	+	Wt	11.6	.D		Se	t at	635	Pe:	rf. <b>635</b> 4	<b>.</b>	To 6	32		
Tub	ing 3	3/8	Wt <u></u>	.7 ]	.D		Se	t at	649	Pe	rf. open	nded	_To			
Gas	Pay:	From	6354	To	6352	<u> </u>	L		<b>x</b> G	0.700			_Bar.Pr	ess.		
												nhead-G.				
Date	e of C	omple	tion:	la-25-(	0		Packe	r		Sin	gle-Brade Reservo	nhead-G. ir Temp.	G. or	G.O.	Dual	
		•	•							D DATA		• ,				
Tes.	ted Th	rough	(Pro	wer) (	Chok	ا (م	(Meter)					Туре Тар	ns			
		- Cugii		Flow D		<u> </u>	(MCGCI)			Tubing	Doto	Casing I		<del>-</del> -		
			(CI	oke)	Pre	ss.	Diff.	Ter	mp.		Temp.				Duration	
No.	•	ine) ize		fice) Size		ig	h <sub>w</sub>	o	F.	psig	°F.	psig	o <sub>F</sub> .	}	of Flow Hr.	
SI					<u> </u>		w			2021		2039				
1.			<del></del>										<del> </del>	<b>—</b>		
2. 3.	20		0,7	<i>X</i> 3	350			<b>a</b>				937		13	pao	
4. 5.					ļ. —									-		
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No.	Coefficient (24-Hour)			$\sqrt{h_W}$				Factor		or	mp. Gravity r Factor		Factor			
<del>-  </del>		24-HO	ur)	V nw	$p_{\mathbf{f}}$	F	osia		Ft	<u> </u>	Fg	Fpv		W 1	).U2) psia	
1. 2. 3.			#													
3. 4.	12.3650		<del> </del>		5%2		0.9795			.9258	1.60		4944			
4. 5.																
							PRI	ESSUI	RE CA	LCUTATI	ONS					
'a		I I wand on	h -	- Dot:	_			-e /s	<u>.</u>		Smoot	fia Cmarri	ite Con		om Coo	
				n Rati Irocarb				cf/l	deg.		Speci	fic Gravi fic Gravi				
				(	1-e <sup>=</sup>	s					Pc	2051	_P <sub>c</sub>	206,	4	
											·					
No.	$P_{\mathbf{w}}$			2 t F	^		$(F_cQ)^2$		(P	0)2	P <sub>w</sub> 2	$P_c^2 - P_w^2$		al.	D	
NO.	Pt (	psia)		t r	c <sup>Q</sup>		(r <sub>c</sub> w)		(1-	Q) <sup>2</sup> e <sup>-s</sup> )	™~	L C_L M		P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>	
1. 2. 3. 4. 5.																
3.	949	F									,00,6	3306			1.2724	
4. 5.			<del> </del>					-+					-			
	olute	Poten	tial:	549	2		····	MCI	PPD:	n75	1.196					
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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
- 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g \subseteq Gravity$  correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_W$  cannot be taken because of manner of completion or condition of well, then  $P_W$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{t}$ .

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