Form C-122

MULTI-POINT BACK	PRESSURE	TEST	FOR	GAS	WELLS
------------------	----------	------	-----	-----	-------

-4	٠.	-	0-I~~
Revise	d	12	-1-55

Po	ol	Basi	n			Formatio	n Dak	tota		County_		Son Jus	
										Date of			
Co	mpany	So	uther	n Unior	n Prod	i. Co.	Lease	Re-	18	We	1006	1/24/	02
Un	it -	G ;	Sec.	31 Tw	n. 29	2-11 R		Draw	ha	Southern	TT 140.	2 -	<u> </u>
										.68			
										30lı			
Gas	s Pay:	From_	616	C_To_	6346	L6	5304 z	.700		4413	_Bar.Pr	ess	12.00
Pro	ducing	Thru	: Ca	sing		T	ubing	XX Sin	Type We	ell <u>s</u>	ingle (as	
Dat	e of Co	mplet	ion:_	1-10	/62	Packe	er		keserve	enhe sd-G. oir Tem p.	G. or	G.O. Du	al
								ED DATA					
Tes	ted Thr	ough	(Pro	<u>ver) ((</u>	Choke	(Meter	Σ			Туре Тар	os		
-	(Pro	ver)		Flow Da		Diff.	Temp.	Tubing	Data	Casing I	ata	Ī .	
No.		nek)k	(Qasa	Bèsec) I		1	1	1	Ī	i	1	1 .	ration of Flow
SI					hark	h _w	 	20µ6	· F.	psig	F.	 	Hr.
1.			3/	4	361		840	367	8),0	20/16 8/17	 		days
2. 3.						-							hrg.
4.													
5.						+	 				 	 	
_						ressure	FLOW CALCULATIONS essure Flow Temp. Gravit Factor Factor			cy Compress. Rate of Factor Q-MCF			Flow
No.							#2C1	tor i	Factor	Pacto	r	O_MCGE	חול
	(21	-Hou	r)	$\sqrt{h_{\mathbf{W}}p}$		psia	raci	cor	Factor	Facto	r	Q-MCFF	D 5 psia
	(24 12.3 6	-How 50	r)	√ h _w p			raci	cor	Factor	Facto Fpv	r	Q-MCFF	D 5 psia
	(2 <u>1</u>	-Hou	r)	√ h _w p		psia	Fact	cor	Factor Fg	F _{pv}	r	Q-MCFF @ 15.02	D 5 psia
	12.36	-Hou	r)	√ h _w p		psia	Fact	cor	Factor Fg	F _{pv}	r	Q-MCFF @ 15.02	D 5 psia
1. 2. 3. 4.	(24 12,36	-How 50	r)	√ h _w p		psia	Fact	cor	Factor Fg	F _{pv}	r	Q-MCFF @ 15.02	D 5 psia
1. 2. 3. 4. 5.	12,36	50			f	psia 373 PR	Fact F ₁ .9777 ESSURE CA	t	ractor Fg _9258	Facto Fpv 1.040	r	Q-MCFF • 15.02	D 5 psia
1. 2. 3. 4. 5.	(24 12,36	ydroc	arbon	Ratio	f	psia 373 PR	Fact F ₁ .9777 ESSURE CA	t	Factor Fg .9258	Facto Fpv 1.046	ty Sepa	Q-MCFF • 15.02 	D 5 psia
1. 2. 3. 4. 5.	12.36	ydroc	arbon	Ratio	f	psia 373 PR	Fact F ₁ .9777 ESSURE CA	t	Factor Fg .9258	Facto Fpv 1.046	ty Sepa	Q-MCFF • 15.02 	D 5 psia
1. 2. 3. 4. 5.	liquid H	ydroc	arbon	Ratio	f	psia 373 PR	Fact F ₁ .9777 ESSURE CA	t	Pactor Fg 9258 Specis	Facto Fpv 1.046	ty Sepa	Q-MCFF 15.02 131 rator G ing Flu	D 5 psia
1. 2. 3. 4. 5.	12.36	ydroc	arbon	Ratio	ns	psia 373 PR	ESSURE CA	ALCUIATIO	Pactor Fg 9258 Specis	Facto Fpv 1.046	ty Sepa	rator Ging Flu	D 5 psia
1. 2. 3. 4. 5. 1. No. 1.	liquid H	ydroc	earbon	Ratio ocarbon (1-	ns	psia 373 PR	ESSURE CA	t	Pactor Fg 9258 Specimon Specimon Pc	Facto Fpv 1.040 fic Gravit 2058	y Sepa	rator Ging Flu	D 5 psia
1. 2. 3. 4. 5. 1. No	liquid H	ydroc	earbon	Ratio ocarbon (1-	ns	psia 373 PR	ESSURE CA	ALCUIATIO	Pw2	Facto Fpv 1.040	y Sepa	rator Ging Flu	D 5 psia
1. 2. 3. 4. 5. No. No. 1. 2. 3. 4.	liquid H	ydroc	earbon	Ratio ocarbon (1-	ns	psia 373 PR	ESSURE CA	ALCUIATIO	Pw2	Facto Fpv 1.040 fic Gravit 2058	y Sepa	rator Ging Flu	D 5 psia
1. 2. 3. 4. 5. 5. No. No	liquid H	ydroc	earbon	Ratio ocarbon (1-	ns	psia 373 PR	ESSURE CA	ALCUIATIO	Pw2	Facto Fpv 1.040 fic Gravit 2058	y Sepa	rator Ging Flu	D 5 psia
1. 2. 3. 4. 5. No	Pw Pt (ps	ydrod iquid ia)	arbon Hydr Pt al:	Ratio ocarbon (1.	nse=s)	psia 373 PR (F _c Q) ²	Fact Fi 9777 ESSURE CA cf/bbl. deg. (Fc (1-	Q) ² e ^{-s})	Pw2	Facto Fpv 1.040 fic Gravit 2058	y Sepa	rator Ging Flu	D 5 psia
1. 2. 3. 4. 5. No. No. Absocomp	Pw Pt (ps	ydrod iquid ia)	arbon Hydr Pt al: thern	Ratio ocarbon (1-	ns_e=s)	psia 373 PRI (F _c Q) ²	essure carefolded (For (1-	Q) ² e-s)	Factor Fg 9258 Special Special Pc Pw2 737.9	Facto Fpv 1.040 Pic Gravit 2058 Pc-Pw 3497.5	y Sepa	rator Ging Flu	D 5 psia
as I ravido Composition Compos	Pw Pt (ps lute Por ANY ESS T and T: ESSED	ydrodiquid ia) tenti Son	arbon Hydr Pt al: thern	Ratio ocarbon (1-	f same series of the series of	psia 373 PRI (F _c Q) ² ction Cornington ld, Jr.	Pact Fi 9777 ESSURE CA cf/bbl. deg. (Fc (1-	Q) ² e-s)	Factor Fg 9258 Special Special Pc Pw2 737.9	Facto Fpv 1.040 fic Gravit 2058	y Sepa	rator Ging Flu	D 5 psia
as I ravido Composition Compos	Pw Pt (ps lute Por ANY ESS T and T: ESSED	ydrodiquid ia) tenti Son	arbon Hydr Pt al: thern	Ratio ocarbon (1-	f same series of the series of	psia 373 PRI (F _c Q) ² ction Cornington ld, Jr.	Pact Fi 9777 ESSURE CA cf/bbl. deg. (Fc (1-	Q) ² e-s)	Factor Fg 9258 Special Special Pc Pw2 737.9	Facto Fpv 1.040 Pic Gravit 2058 Pc-Pw 3497.5	y Sepa	rator Ging Flu	D 5 psia
as I ravido Composition Compos	Pw Pt (ps lute Por ANY ESS T and T: ESSED	ydrodiquid ia) tenti Son	arbon Hydr Pt al: thern	Ratio ocarbon (1-	f same series of the series of	psia 373 PRI (F _c Q) ²	Pact Fi 9777 ESSURE CA cf/bbl. deg. (Fc (1-	Q) ² e-s)	Factor Fg 9258 Special Special Pc Pw2 737.9	Facto Fpv 1.000 Pic Gravit 2058 Pc-Pw 31,97.5	y Sepa	Q-MCFF 15.02 131 rator G ing Flu 1235.4	D 5 psia

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
- 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fny Supercompressability factor.
- n _ 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 $P_{\mathbf{t}}$.