## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS devised 12-1-55

Pool \_\_\_\_\_ Dakota

P	ool	Dakot	a	î	ormatio:	nI	akota			County	San	Juan	
Iı	Pool Dakota  Initial X Annual			1	Special						Test	2-4-61	
Co	ompany	Adobe	oil C	٥.		_Lease_	Ell	iott			No.	1	
Ur	nit G	_Sec.	20 Twp		31 N R	<sub>7e.</sub> 1	3 W D-	mahaa	H	Tean N	latuma	1 00- 0-	
Ca	sing 5.5	Wt. 1	5.50 <sub>I.1</sub>		5.012 <sub>Se</sub>	et at	6650	Dame	661	6518-34	6570	l Gas Co.	
	bing 2 3/				~			", arr •			10 0	ОЦО	
Ga	s Pay: Fro	 m 6518	To 60	Мо			-a	reri. Ri		910	To	ess. 12	
Pr	oducina Thr	nı. Ca	ro				ΧÜ•	<u> </u>	_GI,		Bar.Pr	ess. 12	
Dэ	Producing Thru: Casing Tubing X Type Well Single  Date of Completion: 1-26-61 Packer Reservoir Temp.												
Da	oc or compr	ecton:_	1-20-0	) <u> </u>	Packe	r		R	eserv	oir Temp.	<del></del>		
_				X			ED DAT	Á					
Te	sted Throug	h <u>(Pro</u>	ver) (Ch	oke)	(Meter)					Туре Тар	s		
	(Prover	a	Diff.		Tubing Data			Casing D		I			
No.	(Line) Size	(Ori	fice)			1	]	ı	lemp.	Press.	į į	Duration of Flow	
SI	5126		ize   3/4			° <sub>F</sub> .	psi,		°₹.	psig		Hr.	
1. 2. 3.							22		44	20 <b>63</b> 6 <b>11</b>	22	3 hr.	
3.	<del> </del>	<del></del>											
<u>4.</u> 5.								+					
<u> 5.</u>	<u> </u>							工					
					I	LOW CAL	CULATI(	ONS					
No.	Coefficient			Pr	essure	Flow	Temp. Grav.		vity	Compre	33.	Rate of Flow	
			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	p <sub>f</sub> psia		Factor F <sub>t</sub>		Factor				Q-MCFPD	
1.	12.3650		A -M-I		223	1.01	- 1	84 Fg C.8452		Fpv		€ 15.025 psia	
1. 2. 3. 4. 5.			<del></del>					0.0		1.0	18	2481	
3.													
5.				+									
		<del></del>							·				
					PRE	SSURE CA	LCULAT	IONS					
Gas :	Liquid Hydr	ocarbon	Ratio_			cf/bbl.			Specia	fic Gravit	v Sena	rator Gas	
Jrav:	ity of Liqu	id Hydr	ocarbons 1 <b>-</b> e		<del></del>	deg.			Specia	fic Gravit	y Flow.	ing Fluid	
- 0			(1-6						Pc	2063	Pc	4256	
	$P_{\mathbf{w}}$	<del> </del>		<del></del> -		<del></del>	· · · · · · · · · · · · · · · · · · ·						
No.		P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q		$(F_cQ)^2$	(F.	ے <sup>2</sup> (ی	Þ	,2	$P_c^2 - P_w^2$	Cal		
<b>-</b>	Pt (psia)					(1-	్ల) <sup>2</sup> -e <sup>-s</sup> )	- 1	N <sup>-</sup>	, C _, M	P,		
± <u>+</u> •												<u> </u>	
1. 2. 3. 4.		<u> </u>	+	<del></del>	<del></del>	<del></del>	<del></del>						
4.													
		L											
	olute Potent PANY A	dobe 0	2659		<del></del>	MCFPD;				rincos, mandringaras			
ADDF	ESS 12	223 Fe	troleum	Lij	e Blag	., Mid	land,	Texa	.s				
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COME						···							
			······································	<del></del> -		REMA	RKS						

## 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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P<sub>C</sub>= 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.
- Fnv 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  $P_+$ .