## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

		Blanco Messyards Formation Mess Verde										
											12-16-64	
mpa	ny <b>Sonth</b>	an Un	ion P	roducti	Len_I	ease	Sterr		We]	ll No		
											e Company	
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											52	
											ess. <u>12.0</u>	
odu	cing Thru:	Cas	ing		Tut	)J.IIg	Sin	gle-Brade	nhead-G.	G. or	0. Dual	
te	of Completi	ion:	11-68	-6 <u>4</u>	Packer		<u> </u>	Keservo	ır Temp.			
						OBSER	VED DATA					
ste	d Through	(Prov	er) ((	Choke)	(Meter)				Type Ta	ps		
	<u> </u>	F	low Da	ata			Tubing	Data	Casing	Data		
T	(Prover)	(Cho	ke)	Press	. Diff.						Duration of Flow	
<b>`</b>	(Line) Size	Si	ze	psig	h <sub>w</sub>	°F.	psig	°F.				
1			Α	225		73	1050	<del> </del>	10k9 225		18 days	
$ar{1}$	24		/B	243								
										<del>                                     </del>		
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						FLOW CA	LCULATION	IS			0.77	
	Coefficient		Pressure		Flow Temp.		Gravity Factor	avity   Compress actor   Factor		. Rate of Flow Q-MCFPD		
· -	(24-Hour) 7		$\sqrt{h_{\mathbf{W}}}$	h <sub>w</sub> p <sub>f</sub> psia		Ft		Fg	Fg Fpv		Q-MCFPD @ 15.025 psia	
土	12.3650				237	.9871		.9066	1.00		2698	
: -												
vi	iquid Hydro ty of Liqui	carbo d Hyd	rocarb	.o oons 1-e <sup>-s</sup> )		ESSURE cf/bbl deg		Spec: Spec:	ific Grav ific Grav	rity Flo	earator Gas wing Fluid	
	P <sub>w</sub>	P	2 F	r <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	2	$(F_cQ)^2$ $(1-e^{-s})$	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>1</sub>	2 0	Pw Pc	
+	Pt (psia)						1-6	180825	1947919		W	
4												
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1TN	ESSED	C. W	M.COT								DEC 23 1964	
OMF	(3) Her		0.0.0	•	Company	R	EMARKS			10	DEC 2011. COM DIST. 3	
	(1) EL P	ese X	i. Clo stural Kindr	Ges C	e., Prar Bax 990,	ation B Farmin	gton, No.	). Best 115 r Mestico	2, El Pa	so, Tex		

## 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.
- $P_c$ = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\rm w}$  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.
- $F_{\rm DV}$  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  $P_{+}$ .