## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo.	Basin Basin		Formation			Dakota			County San Juan				
Init	ialX Annual_			al		Spec	ial		Date of Test_		2-7-62		
Comp	oany Compas	s Excpl	lorati	on, In	c.	Lease	Federa	1	Wel	1 No	2-30A		
Unit <u>F</u> Sec. 30 Twp. 30N Rge. 13W Purchaser													
Casing 5 1/2" Wt. 15.5# I.D. Set at 245 Perf. To													
Tubing 2 3/8 Wt. 4.7 I.D. Set at 6173 Perf. 5776 To 6014													
Gas	Gas Pay: From 5776 To 6014 L xG 0.680 -GL Bar. Press.												
Proc	Producing Thru: Casing Tubing T Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual												
Date	Date of Completion: 1-27-62 Packer Reservoir Temp.												
	OBSERVED DATA												
Tested Through (Choke) (Meter) Type Taps													
		low Da				Tubing Data		Casing Data					
No.	(Prover) (Line)				1		1	i		1		Duration of Flow	
	Size		Size		h <sub>w</sub>	°F.	psig	°F.	<del></del>	°F∙		Hr.	
' <u>SI</u>				<u> </u>	-		1573		1961	<del> </del>			
2.													
3.	211	3/4	n	223		54			773	<del>                                     </del>	3 Hours		
4. 5.										1	<u> </u>		
<del>. / • . :</del>		L		<del> </del>		DI CUL CAT	OUT ASTON	·					
~	Coeffici	ent		P	ressure	FLOW CAL	Temp.	Gravity	Compre	ess.	Rate of	Flow	
No.	_ ا					Factor		<b>Factor</b>	Factor		Q-MCFPD		
	(24-Hour) $$		$\sqrt{h_{\mathbf{w}}}$	h <sub>w</sub> p <sub>f</sub> psia		Ft		F <sub>g</sub>			● 15.025 psia		
1. 2.									<del></del>		<del></del>		
3.	12.3650				235	235 1.0058		0.9393	1.029		2825		
3° 4° 5°													
<u> </u>			L										
					PR	ESSURE C	alcut <b>ati</b>	ons					
las 1	Liquid Hydro	carbor	Ratio	0		cf/bbl.		Speci	fic Gravi	ity Sepa	arator G	as	
rav:	ity of Liqui	d Hydi	rocarb	ons		deg.		Speci	fic Gravi	ity Flor	wing Flu	id	
c			(	1-e <sup>-s</sup> )				Pc—	1973	Pc3	893	<del></del>	
											·		
W-	$P_{\mathbf{W}}$	D4	$P_{\mathbf{t}}^2$ $\mathbf{F}$		$(F_cQ)^2$	.	012	P <sub>w</sub> 2	$P_c^2 - P_w^2$	C	al.	P	
No.	Pt (psia)	Pt	·   r	c <sup>Q</sup>	( F C/4)	(i	$\left(\frac{cQ}{c^{-s}}\right)^{2}$	* W~	' C-'W		Pw	P <sub>w</sub> P <sub>C</sub>	
1. 2.													
2. 3.	noe							616	3277	_	<del>-   , .</del>	1880	
4. 5.	785												
5.													
	olute Potent PANYC					MCFPD;	n_75	1.1380					
ADD	RESSB	oz 113	g Fa	mingt	on, Nou l	Verriee							
ADDRESS Box 1138 Fermington New Mexico AGENT and TITLE FILE BLOCK E. C. Filis, Production Superintendent WITNESSED													
	PANY									ECLIV	143		
			-			REM	IARKS		/0	<b>ELLLIN</b>	[D /		
											1962 1963		
									/ /	FRID	COM.	1	
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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 I Actual rate of flow at end of flow period at W. H. working pressure ( $P_W$ ). MCF/da. @ 15.025 psia and 600 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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  $P_{\mathbf{t}}$ .