## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	South	Blanc	0	<del>**                                   </del>	_Formatio	on Pic	tured (	liffs	County_	San J	han	
Init	ialX		Annu	al		Spe	cial		Date of	Test_S	eptember 26, 195	
Comp	any South	ern Ur	tion G	s Cor	mp <b>any</b>	_Lease	Nava jo	Indian	We]	ll No	1-C	
Unit	S	Sec	Tw		27N F	≀ge <b>8</b> γ	Pu	rchaser				
Casi	ng 53	/t	5 <b>.5</b> _I	.D. <u>L</u>	950 S	Set at 21	02	Perf1	951	_To	2030	
Tubi	ng In V	/t	<b>.7</b> _I	.D	9	Set at <u>20</u>	121,	Perf. 2	<u>:00</u> 24	To	20:214	
Gas 1	Pay: From_	1951	To	2030	L		xG_0_6'	Ret_GL_		Bar.Pr	ess12.0	
Produ	ucing Thru:	Ca	sing_	X	TT	lubing		Type W	ell <u>Sin</u>	gle -	Gas G.O. Dual	
Date	of Complet	ion:	lugust	31,	<b>1957</b> Pack	cer		ingle-Brade Reserve	ennead-G. oir Temp.	G. or	G.O. Dual	
						OBSER	VED DAT	A				
Teste	ed Through	(Pro	ver) (	Choke	) ( <del>Moter</del>	•)			Type Tap	os		
			Flow D		Tubi			ng Data   Casing Data			T	
No.	(Prover) (Line)	(Ch	oke) <del>Sico</del> )	Pres	s. Diff	· Temp.	Pres	s. Temp.			1	
l	Size				g h <sub>w</sub>	° <sub>F</sub> .	psi	g °F,	psig	<sup>⊃</sup> F•	of Flow Hr.	
SI							698		698		26 days	
$\frac{1}{2}$ .		3	<u>∕¹™</u>	274		6110	3/19		274	610	3 hours	
3.		<u> </u>										
4. 5.		<u> </u>		<del> </del>		<del> </del>	<b></b>			ļ		
<u> </u>		L		<del></del>			<u> </u>		<u> </u>	1		
<del></del>	0001-1	- 1	<del> </del>			FLOW CAI						
No.				Pressure			Flow Temp. Factor				Rate of Flow	
			$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia			$F_{g}$			@ 15.025 psia	
1.	12.3650				286	0.996	2	0.9463	9463 1.03		3,436	
2 <b>.</b>	<del></del>											
4. 5.												
<u> </u>	·		L			<u></u>		<del></del>			i	
					P	RESSURE (	CALCULAT	TIONS				
aa Ti	lquid Hydro	aa <del>n</del> hax	o Doti	_		- e /hh3		C	Pia Commi	<b>.</b>		
	y of Liquid		rocarbo	ons		_ cf/bbl. deg.					arator Gas	
c(1-e <sup>-£</sup>				l-e <sup>-s</sup> ]					Pc 710 Pc 50h-1			
								P <sub>w</sub>	361	P2 <sub>w</sub>	130.3	
	$P_{\mathbf{w}}$		,		(	2 .	.2					
No.	Pt (psia)	Pt	F	e <sup>Q</sup>	(F <sub>c</sub> Q)	~   (F	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	$P_w^2$	$P_c^2 - P_w^2$	Ca	P <sub>W</sub> P <sub>C</sub>	
	- C (P-2-7)				<del>                                     </del>			130.3	373.8		0-509	
1. 2. 3. 4.												
2.										-		
5.									<del></del>	<del> </del>		
Absol	ute Potent:	ial:	1.	1.32		MCFPD:	n	~ Pr				
COMPA			Inion	as C	onpany			<del>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</del>				
ADDRE		Box	815 F	amin	gton, Ne	w Mexico	Trailli.	ng Superint	endent			
WITNE	and TITLE	G	Lhert	Noland	d <sub>e</sub> er	ASBU.	MILLI	ig puperine	Verification -	<del></del>		
COMPA												
						REM	ARKS		·	21		
									<b>1</b>	nluk.		
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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<sub>c</sub>= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}$  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.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{pv}$  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  $P_+$ .

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AZTEC DISTRICT OFFICE									
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