## Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation						Mesaverde County San Juan						
Ini	tial <u>xx</u>	A	Innual_		Spe	cial		Date of	Test	3/19/5	59	
Com	pany <u>Aztec</u>	Oil and	Gas Cor	mpany	Lease	Culpepper	-Martin	Wel	1 No	11_		
Uni	t <u>4</u> S	Sec. 29	_Twp	32N I	Rge. 12W	Purc	haser					
Cas	Casing 7 Wt. 20 & 23I.D. Set at 4935 Perf. 4686 To 4893											
Tubing 2 3/8 Wt. 1.6 I.D. 1.995 Set at 4894 Perf. 4884 To 4894												
Gas	Pay: From_	<u>1,686                                   </u>	.o <u>489</u>	3L_		xG	GL		Bar.Pre	ss		
Pro	ducing Thru:	Casin	ıg		[ubing	XX	Type We	ell Sing	.e-gas			
Date	e of Complet	ion: <u>8-</u>	19 <b>-</b> 59	Pacl	cer	Sin;	gle-Brade Reservo	enhead-G. oir Temp	G. or G 140 de	egree	ual (est.)	
PBD	- 4935 <b>'</b>  -4904 <b>'</b>				OBSER	ED DATA						
RDB Test	1-597()! ted Through	6Prever	(Chok	e) (Meter	<b>x</b> }			Туре Тар	s			
		Flo	w Data			Tubing	Data	Casing D	ata			
No.	(Prover) (Line)	(Choke	e)  Pre	ig h <sub>w</sub>	Temp.		İ		1		Duration of Flow	
SI	Size	Size	ps	ig h <sub>w</sub>	°F.	psig 1011	o <sub>F</sub> ,	psig 1011	<sup>5</sup> F•	<del> </del>		
1.		750	30	9)1		39/1		888			days hours	
1. 2. 3. 4. 5.												
4.												
5.												
					FLOW CAI	CULATION	5					
No.	Coefficient					. 1		Compress. Factor		Q-MCFPD		
	(24-Hou	r) 🗸	h <sub>w</sub> p <sub>f</sub>	psia	I	't	F <sub>g</sub> _	Fpv		@ 15.025 psia		
1. 2. 3. 4.	12.365			406	.9859		.9608		7	11.931		
<u>3</u> ,												
4.												
20-1			<del> </del>		<del></del>							
				F	RESSURE (	CALCUIATIO	ONS					
Jas I	Liquid Hydro	carbon R	atio		_ cf/bbl.		Speci	fic Gravi	ty Sepa	rator	Gas	
	ity of Liquid	_	arbons (1-e		deg.		Speci	fic Gravi	ty Flow	ing F	luid	
<sup>7</sup> с		<del></del>	(т-е			-	Pc	1023	_ <sup>P</sup> c1,	و 16 ال	529	
	D -				<del></del>				<del>,</del>			
No.	$P_{\mathbf{W}}$	$P_{\mathbf{t}}^{2}$	$F_cQ$	(F <sub>c</sub> Q)	2 (F	20)2	$P_{w}^{2}$	$P_c^2 - P_w^2$	Ca	1.	P	
- 1	At (psia)	· · ·	- 6	(-64)	[)	(cQ) <sup>2</sup> (-e-s)	- W	- C - W	P		Pw Pc	
1. 2. 3. 4.	900						810,000	236,529				
3.										<del></del>		
4.												
5.					i			<u> </u>	<u> </u>	L_		
	PANY <u>Aztec C</u>				MCFPD;	n <u>7</u>	<u> 5</u>					
ADDE	ESS Box # 7	86. Far	nington.	New Mex	ico				- <del></del>			
AGEN	IT and TITLE	ORIGINA	L SIGNED	BY D. K. BI	RYANT		D. K. I	Bryant, Pr	oductio	n Eng	jineer.	
	PANY_	·			<del></del>	<del></del>	·		<del> </del>			
					REM	ARKS		- EI 02		<del> ,</del>	<del></del> -	
								MB 13 37 L 7	•			

## 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 ( $P_{\rm w}$ ). MCF/da. @ 15.025 psia and 60° F.
- PcI 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg= Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{pv}$  Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{\rm W}$  cannot be taken because of manner of completion or condition of well, then  $P_{\rm W}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\rm t}$ .

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