## NEW MEXICO OIL CONSERVATION COMMISSION

1-M. L. Kendrick 1-Mill Parrish 2-EPMS, Farm. & El Paso 1-Tenneco

2-Texas Pacific

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

Poo	1-Pubco 1-D, 1-F							or Fon GAD		Sen J	<u>ven</u>		
					Special				_Date of	Test	4/23	/63	
Com	pany <b>South</b>	west Pr	oducti	n Ca	mpony :	Lease	Geneal	es State	Wel	1 No	_1_	·	
Uni	t <b>6</b> S	Sec16	Twp.	30	Rg Rg	e. <u>11 (</u>	Purc	haser	El Paco H	turel	Ges C	ompany	
Cas:	ing 🐫 V	it11.	<b>60</b> I.D	. 4	.080 Se	t at	<b>39</b> Pe	rf. 659	6	То	6790		
Tub	ing 14" W	it. 2.7	<b>5</b> 1.D	1.	<b>610</b> Se	t at 67	<b>≫</b> Pe	erf		To	6736		
	Pay: From	<u> </u>											
Pro	ducing Thru:	Casi	ing		Tu	bing	X	Type We	11 Sin	gle Gas	1		
Date	e of Complet	ion:_	4/13/6	)	Packe	r	Sir	ngle-Brade Reservo	nhead-G. ir Temp	G. or C	3.0. I	oual	
	-						ED DATA		_				
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		123					Tubing	nat.a	Coning D	n+ n	•		
	(Prover) (Line)	(Chol	ce) P	ress.	Diff.	Temp.	Press	Temp.	Press.	Temp.	1	Duration	
NO.	(Line) Size	Siz	ze	psig	h <sub>w</sub>	°F.	psig	o <sub>F</sub> .	psig	°F.		Hr.	
<u>SI</u>		3/				64	2222		2220 1230		7	days hes.	
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3. 4.		<u>'</u>						<del></del>			<del> </del>		
5.								1					
						FLOW CAL	CULATION	vs					
No.	Coefficient			Pr	essure	Flow	Cemp. Gravity		Compress. Factor		Rate of Flow		
NO.	(24-Hour) ¬/		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	h <sub>w</sub> p <sub>f</sub> ps		F		Fg	Fpv	Fpv		€ 15.025 psia	
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					PR	ESSURE C	ALCUIAT:	IONS					
las i	Liquid Hydro	ocarbon	Ratio			cf/bbl.		Speci	fic Gravi	ty Sepa	arato	r Gas	
Grav	ity of Liqui	id Hydro	carbon	s		deg.		Speci	fic Gravi 2234		wing [		
'с			(1-	e <del>-s</del> )		<del></del>	-	- c	1242			2.5	
		<del>,</del>								- "			
No.	$P_{\mathbf{w}}$	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q		$(F_cQ)^2$	(F	$(c_e^Q)^2$	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca	al.	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
	Pt (psia)					(1	-e <sup>-s</sup> )		3448.2	]	P <sub>W</sub>		
1. 2.		<del>                                     </del>						1942,5	34464%	<del>-                                     </del>	-+	, 336	
3.													
4. 5.									<del> </del>	<del> </del>		<del></del>	
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	olute Potent PANY	clal:	3,41 Sov		t. Prode	MCFPD;		75					
	RESS		234	Petr	. Club.	laza, F	uningto	n. New No.	rice /	W	_		
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	PANY						(A DVC		VIII	,06	7		
	-					KEN	IARKS		190	26 196	JOW.)		

## 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 Tactual rate of flow at end of flow period at W. H. working pressure (Pw). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{\rm t}$ .