## NEW MEXICO CIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	1	Sout	h Bl	anoo		Fo	rmation	Pict	ure Cli	lff	_County_	Rio .	Arrit	ba	
Init	tial_	X		A	nnua	- Sur		Spec	ial		_Date of	Test_	11-1	3-57	
					•										
Unit	t	Р	_Sec.	_21	_Twp	25N	Rge	3W	Purc	haser El	. Paso N	atura	1 Ga	s Co.	
Casi	ing	5 g "	_Wt	14.0	0 I.	D., 5	n Set	at_ 36	365 <sub>Pe</sub>	erf. 378	36	To_3	088		
Tubi	ing	2 3/8	<b>3</b> ₩t	4.7	I.	D., <b>2</b>	# Set	; at 38	3 <b>39</b> Pe	erf. 382	3	то 3	828		
Gas	Pay:	From	m_376	36 T	oi	3820	L	х	G			Bar.Pı	ress.		
										Type We					
Date	e of	Comple	etion	ı: 11-	5-5	7	Packer		Sin	gle-Brade Reservo	nhead-G. ir Temp.	G. or	G.O.	Dual	
		•							ED DATA	<del></del>	• -				
Test	ed T	hroug	h <u><b>X</b></u>	<b>CANA</b>	<u>) (Cl</u>	noke)	XXXXXX				Type Tap	s			
					w Dat		5:221		Tubing		Casing D		<del>_</del> _		
No.	(	Line)	<b>₹</b> €	Choke PIMO	<b>3</b> 8)		Diff.	•		Temp.		1	İ	Duration of Flow	
SI		Size	-	Size		psig	h <sub>w</sub>	o <sub>F</sub> .	psig 1014	°F.	psig 1022	□ oF•		Hr. 7 Day shutir	
1. 2.				3/4		160		58	160		391	<b> </b>	3	ours.	
<u>3.                                    </u>	······································				<u></u>										
4. 5.										<b> </b>	<del></del>	<del> </del>			
۔۔۔۔		<del></del>	<del></del>		···	<del> </del>		TOW CAT.	CULATION	<u> </u>					
No.	Coefficient $(24-\text{Hour})$ $\sqrt{\text{h}_{\text{W}}\text{p}_{\text{f}}}$			1	essure	Flow Temp.		Gravity	Compress. Factor F <sub>pv</sub>						
1.	12	.355			W- J	1	72	1.007	- 1	.9498	1.0	18	20	72	
1. 2. 3.															
4. 5.					<del> </del>								-		
ravi	ty o		uid H	bon R	arbor			cf/bbl.deg.	ALCU ATI	Speci Speci	fic Gravi fic Gravi . <b>034</b>	ty Flo		Fluid	
No.	P <sub>w</sub>	(psia)	)	Pt <sup>2</sup>	Fc	1	$(F_cQ)^2$	(F (1	c <sup>Q)2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	$P_c^2 - P_w^2$		Cal.	Р <u>w</u> Рс	
1. 2.			+							162409	906747				
3 <b>.</b> ]			1-												
4. 5.															
COMP	ANY_	Pover	ntial	नवा	Pr		ion co.		n .85				111	4/1/4	
ADDR AGEN		i TITI	Έ_	N. A		ol Dr	Owne		con, N	ew Lexto	The state of the s	///	/7/	- cy-	
WITN COMP	ESSEI ANY	D								A Section		1			
OUNT	VII.T						<u> </u>	REM	ARKS	7.7	20	计			
										بر غور غور	9				

## 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<sub>c</sub>= 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.
- $F_t$  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  $P_{\rm t}$ .

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