# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

# MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo!	So Bla	nco PC	Extn	Fc	rmation	Picture	ed Cliffs	3	_County_	Rio Ar	riba
Ini	tial_X	<del></del>	Annu	ai		Spec	ial		_Date of	Test	7-22-57
Comp	pany Nort	hwest	Produc	tion C	огр.	Lease	''C''	<u></u>	Wel	1 No	5=8
Unit	t <u>n</u> s	Sec. <u>8</u>	Tw	p. 25N	R <b>g</b>	e4W	Purc	haser	Not conne	cted	
Casi	ing 5 W	/t11	. <u>5</u> I	.D	Se	t at 39	35 Pe	rf. 375	8	To38	12
	ing 14 N									То	
Gas	Pay: From_	375	<b>8</b> To	3812	L	x	G650			Bar.Pre	255•
Proc	ducing Thru:	Ca	sing		Tu	bing	x	Type We	ell Sing	1e	
	e of Complet						Sin	gle-Brade	nhead-G.	G. or G	.O. Dual
							ED DATA		- <u>-</u>		
Test	ted Through	(Prb		T/C Choke)	(Neter)				Type Tap	s	
			Flow Da	at.a			Tuhing	Data	Casing D	12 t 2	<del></del>
$\neg \neg$	(Prover)				Diff	Тешп	Press.		Pross.	Term	Duration
No.	$(\mathtt{Line})$	(Ori	fice)			_					of Flow
SI	Size	5.	ize ———	psig	h <sub>w</sub>	Γ•	psig 1005	F.	psig	F.	Hr.
1.			······································								
1. 2. 3.		3/	/4"				122	47	730		3 hours
<del>3</del> • }		1 7	<del></del>	<b></b>			ļ			<del> </del>	<del></del>
4.		<del> </del>		<del> </del>			<del> </del>			┼	<u> </u>
<u> </u>	-	L					L	L	L	<u>.                                    </u>	<u> </u>
						FLOW CAL	CULATION	S			
	Coeffici	.ent		Pr	essure	Flow	Temp.	Gravity	Compre	ss.	Rate of Flow
No.	(0) ==		/	<del></del>	.	Fac	tor	Factor	Facto		Q-MCFPD
	(24 <b>-</b> Hou	-	√ h <sub>w</sub> I		psia	F	t	Fg	Fpv	1	@ 15.025 psia
1. 2.	12.365	0			134	1.012	7	9608	1,013		1,633
2.											
3 c 4 · .	<del> </del>										<del> </del>
<del>4•</del> 1						<del></del>		· · · · · · · · · · · · · · · · · · ·			
201			L			<del></del>					
					PR	ESSURE C	ALCUTATION	ONS			
as I	Liquid Hydro	carbon	n Ratio	0		cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas
	ty of Liqui		rocarbo	ons		deg.					
`c			(	1-e <sup>-5</sup> ∑				Pc	1017	$P_{\rm c}^2 = 10$	ring Fluid34.3
								•			
				<del></del>			<del></del>			<del></del>	
No.	$P_{\mathbf{w}}$	P	2   F	Q	$(F_cQ)^2$	(F	. 012	P <sub>w</sub> 2	$P_c^2 - P_w^2$	ر ا	ıl. Pw
	Pt (psia)	- 1	-   - (	c*	(+ C4)	l à	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	* W~	1 C-1 W	F	P <sub>W</sub> P <sub>C</sub>
1.	<u> </u>					<del></del>		550,6	483.7	+	2,1383
2.								<b>y</b>			
3.											
1. 2. 3. 4.						_			/ 3	<u> 201</u>	
5.					<del></del>	i				12	7
Absolute Potential: 3,116 MCFPD; n .85/1.9079											
COMPANY Pacific Northwest Pipeline Corp.											
ADDRESS 405% W. Broadway, Farmington, New Mexico											
	AGENT and TITLE C. R. Wagner, Well Test Engineer WITNESSED										
					<del></del>						<del></del>
COPI	COMPANY										

#### 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 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\rm t}$ .

### DRILLING DEPARTMENT

SIZE BLOW NIPPLE		Choke W	ORKING PRESSURES FROM	Casing
TIME 10URS MINUTES  34.5 41.5 50 1 0 12 26.5 44 2 5 30 0	168 168 141 120 130 108 155 161 107	Q (MCFD) 15.025 PSIA & 60°F	WELLHEAD WORKING PRESSURE (PSIG)  793 776 758 785 773 770 751 750 746 730	44 45 45 46 45 47 46 47
		EN blew 2 slugs of H <sub>2</sub> O.		

TESTED BY: C. N. Waspers

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