2 File

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

DIST. 3

Pool	Pool Devile Fork Ext. Formation Galley								County Rio Arriba			
Initial X Annual Special Date of Test 12/10									2/10/60			
Company Val R. Roose & Assoc.					, Inc. Lease Zamora				We	1-29		
Unit	C	Sec	<b>29</b> Tw	љ. <mark>34</mark>	<b>N</b> _Re	ge <b>6W</b>	Purc	haser_E	Pase Na	tural G	as Co.	
Casi	ng 4-1/2	Wt	). <b>5</b> _1	.D. <b>4.0</b>	<b>90</b> Se	et at M	179 Pe	rf. 546		To_ 54	178	
Tubing 2-3/8 Wt. 4.7 I.D.1.985 Set at 8471 Perf. X-Pin To												
Gas Pay: From 5463 To 5478 L 5471 xG 0.60 _GL 3262 Bar.Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single  Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: Packer Single-Bradenhead-G. G. or G.O. Dual  Reservoir Temp.												
OBSERVED DATA												
									Type Taps			
	(Prover)	(Ch	Flow Daniel	Press.	Diff.	Temp.	Tubing Press.	Data Temp.	Casing I		Duration	
No.	(Line) Size	(Ori	fice)	psig		°F.		1	psig	! !	of Flow Hr.	
SI					W		1530		1831			
$\frac{1}{2}$												
2 <b>.</b> 3 <b>.</b>		+		290	<u> </u>	68			760	<del> </del>		
4.	· · · · · · · · · · · · · · · · · · ·	1						<u> </u>	100	<del></del>	3 hrs.	
5.										<u> </u>		
	_					RIOW CAI	CIT ATTON	s		<u> </u>		
	Coefficient Pres				FLOW CALCULATIONS essure Flow Temp. Grav			Gravity	vity Compress. Rate of Flow			
No.				_ Fac			or Factor			Q-MCFPD		
	$(24-Hour)$ $\sqrt{h_w}$		√ h <sub>w</sub> I	o <sub>f</sub> psia		F	t I	$^{\mathtt{F}}_{\mathtt{g}}$	Fpv		<b>@</b> 15.025 psia	
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1. 2. 3. 4.												
3.	12, 365				103	0. 9934		1,000	1.039		5123	
4.	<del></del>										<del></del>	
<del></del>	<del></del>		l								<del></del>	
						ESSURE CA	ALCU ATI					
as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separat												
ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid c(1-e^-s) P_C 1843 P_C 2386.849												
								* C	_ <del>1030</del>	_¹ C	40.040	
No.	P <sub>w</sub>	P	2	0	$(F_cQ)^2$	(P	0)2	n 0	$P_c^2 - P_w^2$			
	Pt (psia)	гt	Fo	*	( L C/A)		Q) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	rc-rw	Ca.		
	- 11/	<del></del>			<del></del>	<del>-   -   -   -   -   -   -   -   -   -  </del>	<del>/</del>			P	4 - c	
2.												
<del>3.</del> [							5	95.984	1784. 86		1.334	
1. 2. 3. 4.						<del></del>				+		
	ute Potent			 R		MORRE		11 8046	<del></del>			
COMPA	NY_ Val R	Bee	ee & /	angel		MCFPD;	n 0.75/	4. 4348	- <del></del>			
ADDRESS Lobby of Simma Bidg Albuquen no. New Monteo												
AGENT and TITLE Morris D. Jones Morris E. Jones, Engineer WITNESSED January												
COMPANY VALR. Record & Associates, Inc.												
REMARKS REMARKS											FA	
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									I DI	EC1419	oec )	
OIL CON. COM.												
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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 = Actual rate of flow at end of flow period at W. H. working pressure (P<sub>W</sub>). MCF/da. @ 15.025 psia and 600 F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_w$  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.
- $h_{\mbox{W}}$ Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{t}$ .