## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	l <u>Ranco</u>		···	Formation		Resaverde		_County_	San	Juan	
Initial X Annual				Special			_Date of	Test	4-14-65		
Comp	any ustral odl Co.		1 Co.	Lease		Ma <b>r</b> ch <b>all</b>		We	ll No	4	
Unit	, <u>A</u> s	Sec	S_Twp	27N R	ge9⊗	Purc	haser		·		
Casing 2 7/8" Wt. 6.5% I.D. Set at 4669 Perf. 4410 To 4494											
Tubing Wt. I.D.				Se	et at	Pe	rf		_To		
Gas	Pay: From_	4410	To 449	L	4494 x	G <u>•</u> €2		2785	Bar.Press.		
Producing Thru: Casing X Tubing Type Well x Single										Le	
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: Packer Reservoir Temp.											
OBSERVED DATA											
Tested Through (Prover) (Choke) (Meter) Type Taps											
	Flow Data				Tubi			ng Data   Casing		Data	
,,_			' . I	ss. Diff.	Temp.		Temp.	Press.	Temp.		
No.	(Line) Size	(Orifi		ig h	°F.	psig	o <sub>F</sub> ,	psig	o <sub>F</sub> .	of Flow Hr.	
SI								993	+		
1.											
2 <b>.</b> 3.	<del></del> -	3/4"	ľ	/4	59		<del> </del>		<del></del>	3 lira.	
4.											
5.											
No.		Coefficient (24-Hour) √		Pressure	FLOW CALCULATION Flow Temp. Factor Ft		Gravity Factor	Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
2. 3.	12.365			186	186 1.00		<b>.</b> 98 <b>3</b> 7	1,016		2301	
<b>4. 5.</b>											
	iguid Umdan	oo abox	Potio		RESSURE C			fic Crow	it - San	onat on Cas	
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  F <sub>C</sub> 5.551 (1-e <sup>-8</sup> ) .183 P <sub>C</sub> 1.010.025											
No.	Pt (psia)	Pt Pt	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F	(cQ) <sup>2</sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub>		al. Pw Pc	
1. 2. 3.	186	34,5%	12.773	163.147	29.8	356	<b>193.</b> 003	\$17,022	2	1.2362	
4. 5.			+								
Abso COMP ADDF AGEN WITN	RESS B IT and TITLE NESSED	stral 0	Farming	ton, New M	exico	n_= .75			ineer		
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 (Pw). MCF/da. @ 15.025 psia and 600 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.
- Ft Flowing temperature correction factor.
- $F_{pv}$  Supercompressability factor.
- n \_ Slope of back pressure curve.

Note: If  $P_{\mathbf{W}}$  cannot be taken because of manner of completion or condition of well, then  $P_{\mathbf{W}}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{\mathbf{t}}$ .