## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Eumont			_Formation	Queen	Penrose		_County	ies		
Initial Annual			and the second seco	Special			_Date of	Test <u>4-2</u>	2/4-26-63		
Compa	any Tidews	ter 011	Company		LeaseS	tate "I"		Wel	1 No	3	
Company Tidewater Oil Company Lease State "I" Well No. 3  Unit N Sec. 16 Twp. 20 Rge. 37 Purchaser R1 Paso Natural Gas Co.											
Casing 5-1/2" Wt. 15.5 I.D. Set at 3550 Perf. To											
Tubing 2-3/8" Wt. 4.7 I.D. Set at 3360 Perf. To											
Gas Pay: From 3374 To 3492 L 3360 xG .660 GL											
Producing Thru: Casing Tubing X Type Well Single Single-Bradenhead-G. G. or G.O. Dual											
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 12-31-55 Packer Reservoir Temp.											
Dave	or compact					ED DATA			·		
_		4-		) (a )		ED DAIR					
Teste 	ed Through							Type Taps			
	/54444A	Fl	ow Data	D: CC		Tubing	Data	Casing I	ata	Duration	
No.	( <b>))</b> (Line)	(Orifi	ce) Pre	ss. Diff.	Temp.	Press.		1	1 1	Duration of Flow	
110.	Size	Siz	e ps	ig h <sub>w</sub>	o <sub>F</sub> .	psig	$\circ_{\mathtt{F}}$ .	psig	o <sub>F</sub> ∙	Hr.	
SI	····					877	······································	817		72	
1. T	4	1.500	609	6.25	99	858		87.5	1	24	
2.	4	1.500				838		862		24	
3.	4	1.300			L	823		853	<u> </u>	24	
5.	4	1.500	638	34.22	37	803		845	<del></del>	24	
No.	Coefficient (24-Hour)		$h_{\mathbf{w}} \mathbf{p_f}$	Pressure psia						Rate of Flow Q-MCFPD @ 15.025 psia	
1. 2.			681,36 / LO2.72	598,2	.9723		.9535			1400	
3			26.11	1:62			.9535			1730	
3. 4.	13,99			651.2	.9750		.9535	1.057		2052	
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio Dry cf/bbl. Specific Gravity Separator Gas 660  Gravity of Liquid Hydrocarbons None deg. Specific Gravity Flowing Fluid None  C											
No.	P <sub>t</sub> (psia)	Pt <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	? (F	cQ) <sup>2</sup> L-e-s)	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Ca P	1. Pw Pc	
1. 2.	871.2	759.0		4.1			788.9	21.5	333	<u> </u>	
<del>4</del> •	851.2	724.5		teasured -			766.0 750.3	60.1	8641		
3. 4.	836.2 818.2	699.2 669.4		_			736.5	73.9	853		
5.		W 7 0 7									
Absol COMPA ADDRE AGENT WITNE	ESS Tand TITLE ESSED	Box 50	L. Wade, Murray	Company , N. Mex. Area Supe		, n	.797 , wade	2 G 3 G 3 G			
COMPANY E1 Paso Natural Gas Co.  REMARKS											

## 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 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- PwT 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.
- Fg 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  $P_{\rm t}$ .