## NEW MEXICO OIL CONSERVATION COMMISSION

							aven #200	-			Form C-122 Revised 12-1-55	
				POINT BACK PRESSURE TES			County Lea					
Initial Annual Annual								1				
Company Tidewater Oil Co. Lease State "S"   Well No. 2(Casing)												
Unit C Sec. 15 Twp. 21 Rge. 37 Purchaser / B1 Paso Natural Gas Co.												
Casing 5 1/2" Wt. 15.5 I.D. Set at 6630 Perf. To												
Tub	ing <b>2"</b> W	/t	467 I.	.D.	Se	t at	<b>292</b> Per	rf		To		
Gas	Pay: From_	5620	To	5700	L 56	20 x	G Mix .	877 <u>/</u> GL	4929	Bar.Pre	ss. <u>13.2</u>	
Producing Thru: Casing X Tubing Type Well G. G. Dual												
Producing Thru: Casing X Tubing Type Well G. G. Dual  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: May 4, 1952 Packer Reservoir Temp.												
рав	or compres	1011.			- GONO							
						OBSERV.	ED DATA					
Tested Through (Prover) (Choke) (Meter)  Type Taps												
	(116161)		low Da		Diff	Tomp	Tubing		Casing D		Duration	
No.	(Line)	(Orif	ice)			-					of Flow	
707	Size	Si	ze	psig	h <sub>w</sub>	F.	psig	F.	psig	- F' •	<del> </del>	
SI	4	.51	00	505	4.00	92			1250 699	<del> </del>	72	
1. 2. 3.	4	.50		550	2,25	94		5 : .	567		24	
3.		1								ļ		
4. 5.												
	FLOW CALCULATIONS											
No.		Coefficient		Pressure		Flow Temp. Factor		Gravity Factor	Compre	r	Rate of Flow Q-MCFPD @ 15.025 psia	
	(24-Hou		√ h <sub>w</sub> p <sub>f</sub>		psia F		t Fg .9148		F <sub>pv</sub>		64.92	
$\frac{1}{2}$	1,525		35.59			.9688			1.060		50,99	
<u>3</u> ,												
1. 2. 3. 4.			<del></del>			<del></del>						
Grav	Liquid Hydro ity of Liqui 1.758		ocarbo		304 41.6	cf/bbldeg.		Speci Speci		ty Flow	erator Gas <u>.717</u> ving Fluid <u>.8174</u> 95.7	
<del></del>	16,		<del></del> -			<del>- 1</del>			γ			
No.	<sup>r</sup> w Pt (psia)	Pt <sup>2</sup>	F	Q	$(F_cQ)^2$	(F (1	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	$P_w^2$	$P_c^2 - P_w^2$	F	P <sub>W</sub> P <sub>C</sub>	
1. 2.	712.2	507.2 336.6	-		-Niglig	1012		307.2 336.6	1088.5			
2. 3.												
4.										+		
COM		249,	HODDS .	N. Me			n 1.000	3				
AGENT and TITLE C. L. Wade, Area Supt. O.g. Illalic												
		Paso										
						REM	MARKS	·	. <u></u>			

## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 600 F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- $P_{\rm w}$  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.
- $h_{\mathbf{w}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{DV}$  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  $P_{\rm t}$ .