- Workhan

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

			MULT	TI-POINT BA	ACK PRES	SSURE TES	T <sub>1</sub> HORZGAS	WELLS (1)	7 2 Rev	rised 12-1-55	
Pool							County Les				
					Special Date of Test 10-29-56						
										omberil	
	ng 7 Wt. 23 I.D. Set at 3075 Perf. To										
Tubing 2 Wt. 4.71 I.D. Set at 3394 Perf. To											
Gas Pay: From 3170' To 3395' L 3394' xG 0.660 GL 2240 Bar. Press. 13.2											
Producing Thru: Casing Tubing I Type Well Single Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: Packer Reservoir Temp.										- Duar	
				<del></del>							
OBSERVED DATA											
Tested Through (Prever) (Cheke) (Meter) Type Taps Type											
		Flo	w Data	ss. Diff.	Temp	Tubing	Z Data Temp.	Casing D	Temp.	Duration	
No. (	Line)	(Orific	ce).			4			i !	OI TIOW	
	Size	Size	ps:	ig h <sub>w</sub>	o <sub>F</sub> .		F.	psig	F.	Hr.	
SI		1.00	- 21.0	5 37.2	70	655 545				24	
1. 2. 3. 3.		1.00	50	3 57.8	72	505				7h 7h	
3.		1.00				L70	<del> </del>			24	
4. <b>L</b> 5.		1,00	46	1000	10	1					
					DI OU CA	T CITT A TOTAL	NTC				
<del></del>	Coefficien			Pressure		LCULATION Temp.	Gravity	Compre		te of Flow	
No.			/	•	Factor Ft		Factor	Facto		Q-MCFPD @ 15.025 psia	
i	(24-Hour)		/ h <sub>w</sub> p <sub>f</sub>	psia	•		•95.35	F <sub>pv</sub>	1	880	
1. 6.	6,135 6,135		172.6	558.2 516.2			.9535	1.060		1046	
3. <b>6.</b>	6,135		177.6	193.2	.9887		.9535	1.065		1078	
	.135 184.0		180.3	.9905		.9535	1.04				
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid  Fc											
P_w		2	Τ	( )	2 /	(= a)2	<b>5</b> 0	$P_c^2 - P_w^2$	Cal	р	
No. P+.	(psia)	$P_{\mathbf{t}}^2$	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>		$(F_cQ)^2$ $(1-e^{-s})$	P <sub>w</sub> 2		P	$P_{C}^{R}$	
1. 5	58.8	311.		76.3	8	15.5	322.5	124.0 162.5			
	18,2 96,2	265.		114.5		16.4	262.6	183.9	512.4	•11	
	83.2	233.		123.1		17.6	251.1	195.h	501.3	•75	
5.							69				
Absolute Potential: 1710 MCFPD; n 53  COMPANY The Atlantic Refining Company											
COMPANY_	7		Box 10	19 Dougles	CIE,	Texas					
AGENT ar	nd TITLE		ellen				Superint	endent			
WITNESSI	ED										
COMPANY			<del>, , , , , , , , , , , , , , , , , , , </del>		RI	EMARKS				ما	

## 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. 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.
- hw Differential meter pressure, inches water.
- $F_g$ : Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> Supercompressability factor.
- n I Slope of back pressure curve.

Note: If  $P_{w}$  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  $P_{+}$ .