

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco-Henryville Formation Point Lookout County San Juan  
Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 6-23-57  
Company Pan American Petroleum Corp. Lease Hawajo Allotted Gas Unit Well No. 1  
Unit II Sec. 36 Twp. 28N Rge. 9W Purchaser None  
Casing 1-1/2" Wt. 14.4 I.D. 1.012 Set at 1601 Perf. 1312 To 1316  
Tubing 2-3/8" Wt. 4.78 I.D. 1.975 Set at 1323 Perf. 1317 To 1321  
Gas Pay: From 1320 To 1316 L 1414 xG .70 est. -GL 1090 Bar.Press. 12,000  
Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Single Well  
Date of Completion: 6-2-57 Packer \_\_\_\_\_ Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. 137° F

## OBSERVED DATA

Tested Through (Prover) (Choke) (None)

Type Taps \_\_\_\_\_

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.	17 days	0.75"	393			1079	60	1075		1
2.										
3.										
4.										
5.										

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.3650		393	1.000	0.9398	1.000	1680
2.							
3.							
4.							
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)

Specific Gravity Separator Gas .70 est.  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1,091 P<sub>c</sub><sup>2</sup> 1,190.281

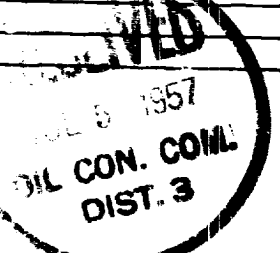
No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.						136.025	1034.256		0.367
2.									
3.									
4.									
5.									

Absolute Potential: 5,199 MCFPD; n 0.75COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS Box 487, Farmington, New MexicoAGENT and TITLE E. A. Bauer, Jr., Field Engineer

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

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 ( $P_w$ ).  
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
- $P_t$  = Flowing wellhead pressure (tubing if flowing through tubing, casing if  
flowing through casing.) psia
- $P_f$  = Meter pressure, psia.
- $h_w$  = Differential meter pressure, inches water.
- $F_g$  = Gravity correction factor.
- $F_t$  = Flowing temperature correction factor.
- $F_{pv}$  = Supercompressibility factor.
- $n$  = 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  $P_t$ .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received		
DISTRIBUTION		
Operator	No.	Date
Santa Fe		
Production Office		
State Land Office		
U. S. G. S.		
Transporter		
File		