

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco-Pictured Cliffs Formation Pictured Cliffs County Rio Arriba

Initial x Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 12-17-58

Company PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Contract 155 Well No. 11

Unit K Sec. 31 Twp. 26-N Rge. 5-W Purchaser El Paso Natural Gas Company

Casing 4-1/2" Wt. 9.5 I.D. 4.090 Set at 2947 Perf. 2883 To 2898

Tubing 2-3/8 Wt. 4.7 I.D. 1.975 Set at 2888 Perf. 2882 To 2888

Gas Pay: From 2883 To 2898 L 2890 xG 0.69(est) -GL 1994 Bar.Press. 12

Producing Thru: Casing \_\_\_\_\_ Tubing x Type Well Gas - single  
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 12-10-58 Packer none Reservoir Temp. 100° F.

OBSERVED DATA

Tested Through ~~x~~ (Choke) ~~x~~ Type Taps \_\_\_\_\_

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	<del>x</del> (Line) Size	(Choke) <del>x</del> Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI	Start in 7 days					891		891		
1.	2"	3/4"	283		60(est)	281	60(est)	455	60(est)	3
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.	12.345		283	1.000	0.925	1.029	3082
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 \_\_\_\_\_

Specific Gravity Flowing Fluid \_\_\_\_\_

P<sub>c</sub> 903 P<sub>c</sub><sup>2</sup> 815,409

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.						218,049	597,320		
2.									
3.									
4.									
5.									

Absolute Potential: 3912 MCFPD; n 0.85

COMPANY PAN AMERICAN PETROLEUM CORPORATION

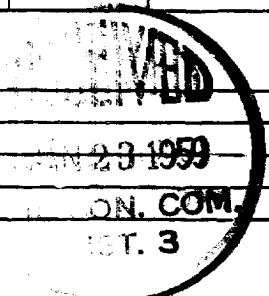
ADDRESS Box 187, Farmington, New Mexico

AGENT and TITLE R. M. Jones, 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.

$F_{pv}$  = Supercompressability 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  $P_t$ .

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