

## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco-Cliffed Cliffs Formation Pictured Cliffs County San Juan  
Initial I Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 7-21-58  
Company PAN AMERICAN PETROLEUM CORP. Lease A. L. Elliott "D" Well No. 4  
Unit I Sec. 11 Twp. 29N Rge. 9W Purchaser El Paso Natural Gas Company  
Casing 5 1/2 Wt. 34 I.D. 4.012 Set at 2414 Perf. 2353 To 2395  
Tubing 1.66 Wt. 2.3 I.D. 1 1/2 Set at 2374 Perf. 2363 To 2374  
Gas Pay: From 2353 To 2395 L 2374 xG 0.69 (est) -GL 1776 Bar.Press. 12  
Producing Thru: Casing I Tubing \_\_\_\_\_ Type Well Gas - Single  
Single-Bradenhead-G. G. or G.O. Dual  
Date of Completion: 7-11-58 Packer \_\_\_\_\_ Reservoir Temp. 101° F

## OBSERVED DATA

Tested Through (Bottom) (Choke) (Neck) Type Taps \_\_\_\_\_

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Choke) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	
SI	Start in 10 days							
1.	2 inch 3/4 inch				60 (est)	314	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.	12.365		96	1.000	0.9325	1.012	1120
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> 1076 P<sub>c</sub><sup>2</sup> 1,157,776

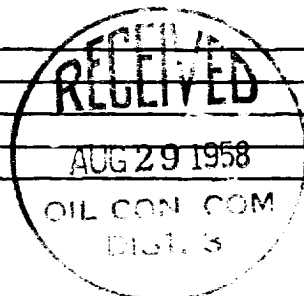
No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.						16,336	1,141,392		
2.									
3.									
4.									
5.									

Absolute Potential: 1134 MCFPD; n 0.85COMPANY PAN AMERICAN PETROLEUM CORPORATIONADDRESS BOX 487, PARMINTON, NEW MEXICOAGENT and TITLE E. M. DAVIS, 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  $P_t$ .

OIL CONSERVATION COMMISSION		
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