

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool SOUTH BLANCO Formation PICTURED CLIFFS County ALBUQUERQUE

Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 10-4-59

Company INTRO-ATLAS, INC. Lease BISHOP Well No. 1

Unit L Sec. 36 Twp. 13N Rge. 3E Purchaser El Paso Natural Gas Company

Casing 5 1/2" Wt. 146 I.D. 5.012 Set at 3683 Perf. 3633-51 To \_\_\_\_\_

Tubing 2" Wt. 4.70 I.D. 1.995 Set at 3551 Perf. 3548 To 3530

Gas Pay: From 3567 To 3651 L \_\_\_\_\_ xG 0.84 -GL \_\_\_\_\_ Bar. Press. 11

Producing Thru: Casing X Tubing \_\_\_\_\_ Type Well Single Gas

Date of Completion: 10-4-59 Packer \_\_\_\_\_ Single-Bradenhead-G. G. or G.O. Dual \_\_\_\_\_ Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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.	
SI										
1.		<u>3/8"</u>	<u>310</u>		<u>68</u>	<u>373</u>		<u>369</u>	<u>68</u>	<u>3 hours</u>
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>cp</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>11.2</u>		<u>360</u>	<u>.982</u>	<u>.8452</u>	<u>1.071</u>	<u>1,944</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.

Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.

P<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)

Specific Gravity Separator Gas \_\_\_\_\_

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

P<sub>c</sub> 1038 P<sub>c</sub> 1,043,000

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> / F <sub>c</sub>
1.						<u>129,600</u>	<u>935,424</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 4,909 MCFPD; n .83

COMPANY INTRO-ATLAS, INC.

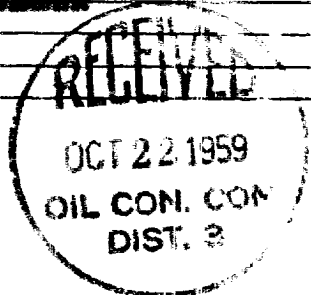
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AGENT and TITLE W. J. Gove, ENGINEER

WITNESSED \_\_\_\_\_

COMPANY \_\_\_\_\_

REMARKS



The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

## NOMENCLATURE

$n$  = Slope of back pressure curve.

[illegible]