

1 - L. D. Galloway  
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MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122  
Revised 12-1-55

Pool Wildcat Formation Pictured Cliff County Rio Arriba  
Initial XXX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 12-28-59  
Company Pacific Northwest Pipeline Corp., Lease San Juan 28-6 Well No. 93-36  
Unit M Sec. 36 Twp. 28N Rge. 6W Purchaser Not Connected  
Casing 7 5/8 Wt. 26.4 I.D. 3328 Set at 3185 Perf. 4782 To 5430  
Tubing 2 3/8 Wt. 4.7 I.D. 5348 Set at 5348 Perf. 5342 To 5348  
Gas Pay: From 4782 To 5430 L. \_\_\_\_\_ xG .650 -GL \_\_\_\_\_ Bar.Press. 12  
Producing Thru: Casing \_\_\_\_\_ Tubing 1 1/2 XXX Type Well G.O. - Dual  
Date of Completion: \_\_\_\_\_ Packer 4664 Reservoir Temp. \_\_\_\_\_

Init. M.V. SIP - 1084

OBSERVED DATA

@ 3 hrs.

-1085

Tested Through (Prover) (Choke) (Meter)

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

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(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.		3/4	236		46°	236	46°	938		3 hrs.
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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		248	1.0137	.9608	1.027	3067
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> 1074 P<sub>c</sub> 1153.48

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> )	950 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.						902.50	250.98		4.60
2.									
3.									
4.									
5.									

Absolute Potential: 11.222 MCFPD; n .85/3.6588

COMPANY Pacific Northwest Pipeline Corporation

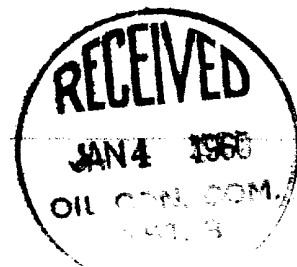
ADDRESS 418 1/2 West Broadway - Farmington, New Mexico

AGENT and TITLE C. R. Wagner - Well Test Engineer

WITNESSED EPNG & NMOCG gave O.K. to test well without witness

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  $P_t$ .

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