

WBOCC-3  
Peppin-1  
Truby-1  
File-1

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapacito PC Extn Formation Pictured Cliffs County Rio Arriba  
Initial XX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 4-26-57  
Company Northwest Production Corp. Lease "A" Well No. 9-6  
Unit 2 Sec. 6 Twp. 26N Rge. 4W Purchaser Not connected  
Casing 5 Wt. 11.5 I.D. \_\_\_\_\_ Set at 4045 Perf. 3912 To 3947  
Tubing 2-3/8 Wt. 4.7 I.D. \_\_\_\_\_ Set at 3975 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 3912 To 3947 L \_\_\_\_\_ xG Ret .690 GL \_\_\_\_\_ Bar.Press. 12  
Producing Thru: Casing \_\_\_\_\_ Tubing XX Type Well Single - G  
Single-Bradenhead-G. G. or G.O. Dual  
Date of Completion: 4-18-57 Packer No Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (PIPPIN) (Choke) (PIPPIN) 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						1022		1070		21
1.										
2.		3/4				240	65	546		3 hrs
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.	14.1603		252	.9952	.9325	1.028	3,404
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> 1082 P<sub>c</sub><sup>2</sup> 1170.7

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.									
2.									
3.						311.4	839.3		1.36
4.									
5.									

Absolute Potential: 4,420 MCFPD; n .85/1.2986  
COMPANY Pacific Northwest Pipeline Corp.  
ADDRESS 4034 U. Broadway, Farmington, New Mexico  
AGENT and TITLE C. L. Wagner, Well Test 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  $P_t$ .

DRILLING DEPARTMENT

COMPANY Northwest Production Corporation

LEASE                      WELL NO.                     

DATE OF TEST April 26, 1957

SHUT IN PRESSURE (PSIG): TUBING 1022 CASING 1070 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 3/4" Choke (B. of N.)

FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

[illegible]

START AT 10:50 am

END TEST AT 1:50 pm

REMARKS: \_\_\_\_\_

TESTED BY C. R. HARRIS



<b>OIL CONSERVATION COMMISSION</b>		
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