

NM OCC-3  
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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba  
Initial XX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 7-5-57  
Company Northwest Production Corp. Lease "E" Well No. 3-28  
Unit M Sec. 28 Twp. 26N Rge. 3W Purchaser Not connected  
Casing 7-5/8 26.4, 14,  
5-1/2 Wt. 4 15.5 I.D. \_\_\_\_\_ Set at 6219 Perf. 5526 To 6133  
Tubing 2-3/8 Wt. 4.7 I.D. \_\_\_\_\_ Set at 5999 Perf. 5996 To \_\_\_\_\_  
Gas Pay: From 5526 To 6133 L 5996 xG .650 -GL 3897 Bar.Press. \_\_\_\_\_  
Producing Thru: Casing \_\_\_\_\_ Tubing XX Type Well Dual - G-G  
Date of Completion: 6-27-57 Packer Yes - 9490' Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (Proper) (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						1209		990		SI
1.		3/4"	223		87	223	87	995		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.	12.3630		235	0.9750	0.9608	1.020	2.777
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

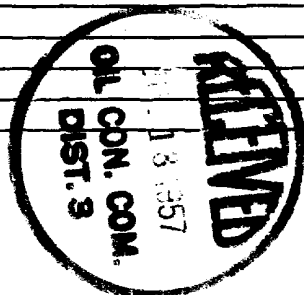
Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> 9.402 (1-e<sup>-s</sup>) 0.247  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1221 P<sub>c</sub> 1490.841

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.	235	55.225	26.169	684.680	168.375	223.600	1267.241		1.1764
2.									
3.									
4.									
5.									

Absolute Potential: 3,137 MCFPD; n. 73/1.1295

COMPANY Pacific Northwest Pipeline Corp.  
ADDRESS 485 W. Broadway, Farmington, New Mexico  
AGENT and TITLE C. R. Wagner, Well Test Engineer  
WITNESSED Fred Cook  
COMPANY NM OCC

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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## DRILLING DEPARTMENT

COMPANY Northwest Production Corp.

LEASE                    **"E"**                    WELL NO.    **5-28**

DATE OF TEST **7-5-57**

SHUT IN PRESSURE (PSIG):	TUBING	<b>1209</b>	CASING	<b>990</b>	S. I. PERIOD	<b>7</b>	DAYS
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SIZE BLOW NIPPLE      3/4" B. M. Choke

FLOW THROUGH **Tubing - MV** WORKING PRESSURES FROM **Casing - PC**

[illegible]

START AT: 12:00 Noon END TEST AT 3:00 PM

REMARKS: Surging and very wet through out test

TESTED BY: **C. R. Wagner**

WITNESS: **Fred Cook, NM OCC**