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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 Tapacito Extn Formation Pictured Cliffs County Rio Arriba  
Initial XX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 7-12-57  
Company Northwest Production Corp. Lease "E" Well No. 5-28  
Unit M Sec. 28 Twp. 26N Rge. 3W Purchaser Not connected  
7-5/8 26.4 4100  
Casing 5-1/2 Wt. 14.6 15.5 D. \_\_\_\_\_ Set at 6219 Perf. 3873 To 3902  
Tubing 1 1/2 Wt. 1.9 I.D. \_\_\_\_\_ Set at 3812 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 3873 To 3902 L 3873 xG .680 -GL 2634 Bar.Press. \_\_\_\_\_  
Producing Thru: Casing XX Tubing \_\_\_\_\_ Type Well \_\_\_\_\_  
Date of Completion: 6-27-57 Packer 5490 Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through B.M. (Proven) (Choke) (X-Meter) SI 7 days 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						1225		1017		SI
1.										
2.						1225		137	70	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.	14.1605		149	0.9905	0.9399	1.014	1990
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

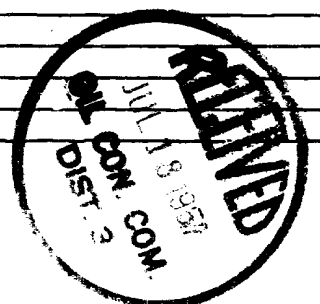
Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-S</sup>)  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1049 P<sub>c</sub><sup>2</sup> 1058.8

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.						49.7	1009.1		1.0492
3.									
4.									
5.									

Absolute Potential: 2073 MCFPD; n .85/1.0416

COMPANY Pacific Northwest Pipeline Corp.  
ADDRESS 4034 W. Broadway, Farmington, New Mexico  
AGENT and TITLE C. E. 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.
- $F_{pv}$  = 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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## DRILLING DEPARTMENT

COMPANY **Northwest Production Corporation**

LEASE "E" WELL NO. 5-28

DATE OF TEST 7-12-57

SHUT IN PRESSURE (PSIG): TUBING 1225 CASING 1017 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 3/4" Choke

FLOW THROUGH Casing - PC WORKING PRESSURES FROM Tubing - MV

[illegible]

START AT: 10:55 AM END TEST AT 1:55 PM

REMARKS: Very light fog of H<sub>2</sub>O through out test

TESTED BY: C. R. Wagner

WITNESS: \_\_\_\_\_