

NM OCC-3  
 Truby-1  
 Peppin-1  
 Fowler-1  
 File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122  
 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco Formation Pictured Cliffs County San Juan  
 Initial X Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 12-1-57  
 Company Northwest Production Corp. Lease San Juan 27-8 Well No. 2-14  
 Unit H Sec. 14 Twp. 27N Rge. 8W Purchaser Not connected  
 Casing 5 1/2 Wt. 15.5 I.D. 14.0 Set at 3064 Perf. 2940 To 3000  
 Tubing 1 1/2 Wt. 2.3 I.D. \_\_\_\_\_ Set at 2970 Perf. \_\_\_\_\_ To \_\_\_\_\_  
 Gas Pay: From 2940 To 3000 L \_\_\_\_\_ xG Est. .680 GL \_\_\_\_\_ Bar. Press. \_\_\_\_\_  
 Producing Thru: Casing \_\_\_\_\_ Tubing X Type Well Single  
 Date of Completion: 11-23-57 Packer No Single-Bradenhead-G. G. or G.O. Dual \_\_\_\_\_  
 Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (Packed) (Choke) (Packed) Type Taps \_\_\_\_\_

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Packed) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						862		862		SI
1.										
2.										
3.	2	3/4"				116	42	645		3 hrs
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.							
2.							
3.	12,3650		128	1.0178	.9393	1.015	1,536
4.							
5.							

PRESSURE CALCULATIONS

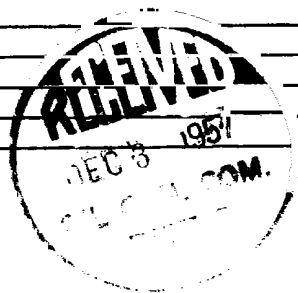
Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
 Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
 F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)  
 Specific Gravity Separator Gas \_\_\_\_\_  
 Specific Gravity Flowing Fluid \_\_\_\_\_  
 P<sub>c</sub> 874 P<sub>c</sub><sup>2</sup> 763.9

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.	657					431.6	332.3		2.299
4.									
5.									

Absolute Potential: 3,117 MCFPD; n 2.0291/.85

COMPANY Northwest Production Corporation  
 ADDRESS 204 North Orchard, Farmington, New Mexico  
 AGENT and TITLE L. E. Gilbert, Asst Drlg Engr  
 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  $P_t$ .

## DRILLING DEPARTMENT

COMPANY **Northwest Production Corp.**

LEASE **San Juan 27-8** WELL NO. **2-14**

DATE OF TEST **12-1-57**

SHUT IN PRESSURE (PSIG): TUBING **862** CASING **862** S. I. PERIOD **8** DAYS

SIZE BLOW NIPPLE 2"

FLOW THROUGH 3/4" T.C. Choke WORKING PRESSURES FROM **Casing**

[illegible]

START AT: 10:20 AM END TEST AT 1:20 PM

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

TESTED BY: L. E. Gilbert

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