

NM OCC-3  
Truby-1  
Peppin-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 x Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 6-11-57  
Company Northwest Production Corp. Lease "N" Well No. 5-6  
Unit L Sec. 6 Twp. 26N Rge. 4W Purchaser Not connected  
Casing 7-5/8 Wt. 26.4 I.D. \_\_\_\_\_ Set at 4095.56 Perf. 3852 To 3880  
Tubing 1 1/2 Wt. 2.3 I.D. \_\_\_\_\_ Set at 3878.84 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 3852 To 3880 L 3852 xG .650 -GL 2504 Bar.Press. \_\_\_\_\_  
Producing Thru: Casing XX Tubing \_\_\_\_\_ Type Well Dual - G-G  
Date of Completion: 6-11-57 Packer No Single-Bradenhead-G. G. or G.O. Dual  
Reservoir Temp. \_\_\_\_\_

OBSERVED DATA

Tested Through (Hydvy) (Choke) (Mvdy) 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						1113		1074		SI
1.										
2.										
3.		3/4				1123		847	65	3 hr
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.	14.1605		859	.9952	.9608	1.093	12,717
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> .5985 (1-e<sup>-s</sup>) .166  
Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1086 P<sub>c</sub><sup>2</sup> 1179

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.	859	738	7.61	57.9	9.6	748	431		2.735
4.									
5.									

Absolute Potential: 29,908 MCFPD; 185/2.3518  
COMPANY Pacific Northwest Pipeline Corp.  
ADDRESS 405 1/2 W. Broadway, Farmington, New Mexico  
AGENT and TITLE C. R. Wagner, Well Test Engineer  
WITNESSED Fred Cook  
COMPANY N. M. Oil Conservation Commission

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 "N" WELL NO. 5-6

DATE OF TEST      **6-11-57**

SHUT IN PRESSURE (PSIG): TUBING 1113 CASING 1074 S. I. PERIOD 7 DAYS

SIZE BLOW NIPPLE 2"

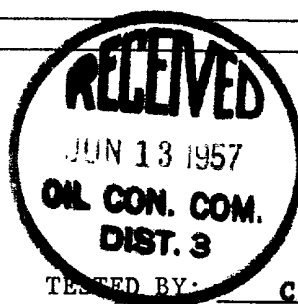
FLOW THROUGH 3/4" CK (Bureau of Mines) WORKING PRESSURES FROM

[illegible]

START AT: 11:40 am END TEST AT 2:40 pm

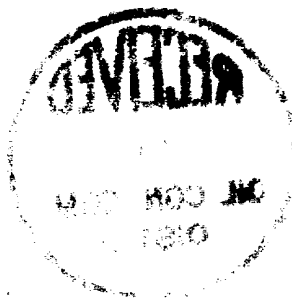
REMARKS:

Checked choke at 1 hour 35 mins for freezing. OK.  
No ice at end of test.



TESTED BY: C. R. Wagner

WITNESS: Fred Cook, NM OCC



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