

CC: MROC (6)
Culler
L. B. Galloway (MROC)
File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Messabiada County Rio Arriba
Initial x Annual _____ Special _____ Date of Test 12-18-59
Company Pacific Northwest Pipeline Lease 22-6 Well No. 93-36
Unit _____ Sec. 36 Twp. 28 Rge. 6 Purchaser None
Casing 5 1/8" 13.54 I.D. 3185-3473 Set at 1300 Perf. 4700 To 5430
Tubing 2 1/8" 4.7 I.D. _____ Set at 5340 Perf. 5340 To 5340
Gas Pay: From 4700 To 5430 L 5340 xG 0.60 GL 3205 Bar.Press. _____
Producing Thru: Casing _____ Tubing x Type Well Dual G. G.
Date of Completion: _____ Packer 444' Reservoir Temp. _____
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Sucker) (Choke) (Sucker) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Sucker) (Sucker) Sucker	(Choke) (Sucker) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.		<u>1 1/4" TC</u>	<u>871</u>		<u>65</u>	<u>1075</u>		<u>1000</u>		<u>3 hr.</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>12.365</u>		<u>871</u>	<u>.9972</u>	<u>1.00</u>	<u>1.000</u>	<u>3408</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 9.402 (1-e^{-s}) 0.808
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1007 P_c 1102

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w P _c
1.	<u>871</u>	<u>75.4</u>	<u>32.04</u>	<u>1026.6</u>	<u>814</u>	<u>807</u>	<u>899</u>	<u>938</u>	<u>1.381</u>
2.									
3.									
4.									
5.									

Absolute Potential: 4199 MCFPD; n 73/1.238

COMPANY Pacific Northwest Pipeline Corporation

ADDRESS _____

AGENT and TITLE R. G. Adams

WITNESSED Bill Pomeroy

COMPANY El Paso Natural Gas 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 .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
Well Name	4	
Location		
Operator		
Flowing Pressure	4	
Shut-in Pressure	1	
Flowing Temperature		
Shut-in Temperature		
Flowing Rate		
Shut-in Rate		
Flowing Time		
Shut-in Time		
Flowing Pressure	1	✓
Shut-in Pressure		

PACIFIC NORTHWEST PIPELINE CORPORATION

POTENTIAL TEST FORM

COMPANY **Pacific Northwest Pipeline Corp.**

LEASE 28-6 WELL NO. 93-36

DATE OF TEST 12-18-59

SHUT IN PRESSURE (PSIG): TUBING 1075 PC 1009 thg. S. I. PERIOD _____ DAYS _____

SIZE BLOW NIPPLE 3/4" TC

FLOW THROUGH NY tag. WORKING PRESSURES FROM None

HOURS	MINUTES	PRESSURE	15.025 PSIA & 60° F	P. C. WELLHEAD WORKING PRESSURE (PSIA)	TEMP.
	15	344		Csg. 1011	60°
	30	321		1011	61
	45	307		1012	62
1	00	299		1012	62
1	30				
2	00				
3	00	259		1014	65

START TEST AT 9:45 AM END TEST AT 12:45 PM

REMARKS:

TESTED BY: _____