

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco MU Extn. Formation Mesa Verde County San Juan
Initial X Annual _____ Special _____ Date of Test 10-29-56
Company Northwest Production Co. Lease Blanco 30-12 Well No. 1-4
Unit A Sec. 4 Twp. 30N Rge. 12W Purchaser Not connected
Casing 7 7/8 5 1/2 I.D. _____ Set at 4645 Perf. _____ To _____
Tubing 1 1/4 I.D. _____ Set at 4624 Perf. _____ To _____
Gas Pay: From 4645 To 4778 L _____ xG .690 -GL _____ Bar.Press. 12.0
Producing Thru: Casing _____ Tubing XX Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 10-17-56 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pretest) (Choke) (Meter) Shut In 10 days Type Taps _____

No.	Flow Data				Tubing Data		Casing Data		Duration of Flow Hr.
	(Pretest) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.
SI						1090		1090	Shut in
1.									
2.	2	3/4	27		55	27	55	110	3 hrs.
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.							
2.							
3.	14.1605		39	1.0048	.9325	1.000	517
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1102 P_c 1214.4

No.	P _w (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.									
2.									
3.	122					14.9	1199.5		1.012
4.									
5.									

Absolute Potential: 522 MCFPD; n .75/1.009

COMPANY Pacific Northwest Pipeline Corp.

ADDRESS 4054 West Broadway, Farmington, New Mexico

AGENT and TITLE W. B. Richardson, 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} = 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

LEASE 30-12 WELL NO. 1-4

DATE OF TEST October 29, 1956

SHUT IN PRESSURE (PSIG): TUBING 1090 CASING 1090 S.I. PERIOD 10 DAYS

SIZE BLOW NIPPLE 2 X 3/4 B-M Choke

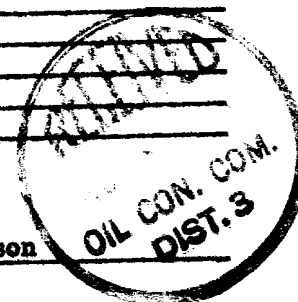
FLOW THROUGH Tubing WORKING PRESSURES FROM Casing

[illegible]

START TEST AT 9:25 A.M. END TEST AT 12:25 P.M.

REMARKS: Little or no liquid mist in gas stream

TESTED BY W. B. Richardson



OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

Name		COOPER, ROBERT	3
REGISTRATION			
NO.	107		
EXPIRATION DATE	1/1/57		
PRODUCTION OFFICE	/		
STATIONING OFFICE	/		
U. S. G. S.	/		
TRANSPORTER	/		
FILE	/		✓