3 - N.M.O.C.C. (Aztec)
1 - L. G. Truby
1 - W. R. Johnston
1 - E.P.N.G. (Calloway)
1 - Shelly Oil Co.
1 - File

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco Formation Mesaverde County Rio Arriba

Initial XX Annual ____ Special ____ Date of Test 9-7-56

Company Pacific Northwest Pipeline Corp. Lease 29-7 Well No. 52-7

Unit H Sec. 7 Twp. 29N Rge. 7W Purchaser Not connected

Casing 7" Wt. ____ I.D. ____ Set at 5,115 Perf. 4,678 To 5,276

Tubing 2" Wt. ____ I.D. ____ Set at 5,248 Perf. ____ To ____

Gas Pay: From 4,678 To 4,786 L ____ xG .730 -GL ____ Bar.Press. 12.0

Producing Thru: Casing ____ Tubing XX Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: ____ Packer No Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ (Choke) ~~(Meter)~~ Type Taps ---

No.	Flow Data ~~(Prover)~~ ~~(Line)~~ Size	Flow Data (Choke) ~~(Orifice)~~ Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						1070		1082		Shut-in.
1.						383	66	626		
2.	2"	3/4								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.	14.1605		395	.9943	.9944	1.037	5056
3.							
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 1096 P_c^2 1197.

No.	P_w ~~P_t~~ (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.						706	491		2.438
2.									
3.									
4.									
5.									

Absolute Potential: 10,266 MCFPD; n .75 = 1.952

COMPANY Pacific Northwest Pipeline Corp.
ADDRESS 405½ West Broadway, Farmington, New Mexico
AGENT and TITLE W. R. Richardson, III, Well Test Engineer
WITNESSED ____
COMPANY ____

REMARKS

RECEIVED
SEP 12 1956
OIL CON. COM.
DIST. 3

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.