,-N.M.O.C.C.
1-L. G. Truby
1-El Paso Natural Gas (Galloway)
1- W. R. Johnston
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 __3-5-57__

Company __Pacific Northwest Pipeline__ Lease __San Juan 28-6__ Well No. __74-3__

Unit __A__ Sec. __3__ Twp. __27N__ Rge. __6W__ Purchaser __Pacific Northwest Pipeline Corp.__

Casing __5 1/2__ Wt. __7 5/8__ I.D. ____ Set at __5400__ Perf. __5389__ To __4620__ (3340)

Tubing __2__ Wt. ____ I.D. ____ Set at __5334.38__ Perf. ____ To ____

Gas Pay: From __5389__ To __4620__ L ____ xG __.650__ -GL ____ Bar.Press. ____

Producing Thru: Casing ____ Tubing __xx__ Type Well ____

Date of Completion: ____ Packer ____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. ____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) __Shut in 7 days__ Type Taps ____

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Temp. °F.	Casing Data Press. psig	Temp. °F.	Duration of Flow Hr.
SI						1111		1115		
1.										
2.						185	63	673		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		197	0.9971	0.9608	1.019	2723
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl.   Specific Gravity Separator Gas ____
Gravity of Liquid Hydrocarbons ____ deg.   Specific Gravity Flowing Fluid ____
F_c ____ $(1-e^{-s})$ ____ P_c __1127__ P_c^2 __1270.1__

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	$\frac{P_w}{P_c}$
1.									
2.	685					469.2	800.9		1.586
3.									
4.									
5.									

Absolute Potential: __3,848__ MCFPD; n __.75/1.413__

COMPANY __Pacific Northwest Pipeline Corporation__
ADDRESS __4051 West Broadway, Farmington, New Mexico__
AGENT and TITLE __Clarence R. Wagner - Well Test Engineer__
WITNESSED __Tom Grant__
COMPANY __El Paso Natural Gas Co.__

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.

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AZTEC DISTRICT OFFICE
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