

3 - N.M.O.C.C.-Aztec
1 - L.G. Truby
1 - W.R. Johnston NEW MEXICO OIL CONSERVATION COMMISSION
1 - L.D. Galloway
1 - File

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 11-2-56
Company Pacific Northwest Pipeline Lease 27-5 Well No. 18-36
Unit K Sec. 36 Twp. 27 Rge. 5 Purchaser Pacific Northwest Pipeline Corp.
Casing 5 1/2 Wt. _____ I.D. _____ Set at 5860 Perf. _____ To _____
Tubing 2" Wt. 4.7 I.D. _____ Set at 5775 Perf. _____ To _____
Gas Pay: From _____ To _____ L 5775 xG 690 -GL 3985 Bar.Press. 12
Producing Thru: Casing _____ Tubing XXX Type Well Dual
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: _____ Packer yes Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	
1.		<u>3/4"</u>	<u>196</u>		<u>62</u>	<u>1119</u> <u>196</u>	<u>1082</u> <u>62</u>	<u>3 hrs.</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>14.1605</u>		<u>208</u>	<u>.9981</u>	<u>.9325</u>	<u>1.023</u>	<u>2804</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.402 (1-e^{-s}) .252
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1131 P_c² 1279.2

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>208</u>	<u>43.3</u>	<u>26.4</u>	<u>697.0</u>	<u>175.6</u>	<u>218.9</u>	<u>1060.3</u>	<u>326</u>	<u>1.21</u>
2.									
3.									
4.									
5.									

Absolute Potential: 3235 MCFPD; n .75/= 1.1536

COMPANY Pacific Northwest Pipeline Corporation

ADDRESS 405 1/2 West Broadway

AGENT and TITLE C. R. Wagner - Well Test Engineer

WITNESSED Tom Grant - Gas Engineer

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 .