

CO₂ 2.36% N₂ 1.32%

Type Taps **Flange**

Casing Data		Duration of Flow Hr.
Press.	Temp.	
941.2		72 $\frac{1}{2}$ hrs.
865.7	64	24 "
828.5	63	24 "
792.4	63	24 "
734.6	65	24 $\frac{1}{2}$ "

Rate of Flow Q-MCFPD	Pressure P-psia
1.050	1407.32
1.051	1042.29
1.050	2201.98
1.050	2698.38

Separator Gas	.670
Flowing Fluid	—
954.4	910.88

No.	P_w	P_t (psia)	$P_{w,c}$	$P_{t,c}$	$\frac{P_{w,c}}{P_{t,c}}$
1.	878.9	772.46	138.42		
2.	841.7	708.46	202.42		
3.	805.2	648.35	262.53		
4.	747.8	559.40	351.68		
5.					

.69

Permian Basin Pipeline Company took the data and submitted it to Cities Service. The calculations and the plotting of the curves was done by Cities Service.

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_g must be calculated by adding the pressure drop due to friction within the flow string to P_t .