

Form C-122
Revised 12-1-55
Lea Co. New Mex.

Revised 12-1-55

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New Mex.

19-23, 19

1

28ht./ft

10

300

s. 13.2

C. Dual

1

Durat

of F

Hr.

72

3

3

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.

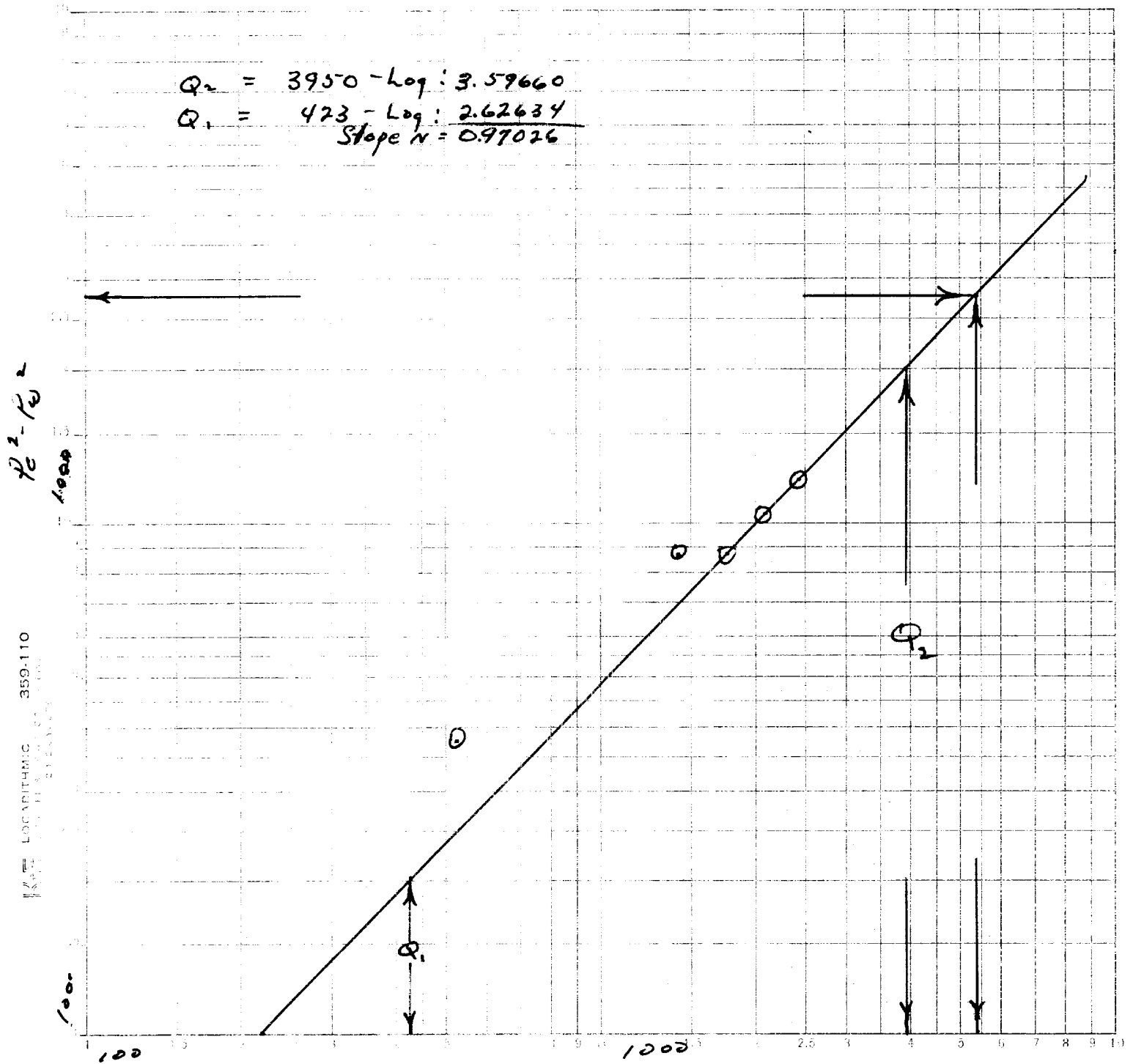
Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

Sinclair Oil & Gas Co.
 W. M. York #1
 H-20-215-37E
 Lea Co. N. Mex.
 8-24-58

$$Q_2 = 3950 - \log : 3.59660$$

$$Q_1 = 423 - \log : 2.62634$$

$$\text{Slope } N = 0.97026$$



$Q - \text{MCFD} - 15.025 - \text{PSIA}$

1. The first part of the paper
 is devoted to the study of the
 properties of the function
 defined by the formula

where α is a real number
 and β is a complex number
 satisfying the condition

