

~~SECRET-SPECIAL HANDLING~~

AF00736, Series A  
64-10  
10/22/64

ADDENDUM TO  
TECHNICAL REPORT  
FOR  
PLYMOUTH ROCK I  
MISSION 7306

Section II. B. 3 Calibration Data

Section II. B. 5 Commutator Schedule

SAF99 ~~SECRET~~ 5H0176 64  
7306 P-9230  
64/10

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**II. B. 3. Calibration Data for Plymouth Rock L, Serial No. 1.**

**Figure 1. Receiver Input Power versus Transmitter Deviation,  
Wideband Channel.**

**Figure 2. Receiver Input Power versus Transmitter Deviation,  
Narrow band channel (Sweeping Filter).**

**Figure 3. System Tangential Sensitivity and 20 db Attenuator  
Threshold.**

**Figure 4. Pulse Interval Detector Output versus Pulse Interval.**

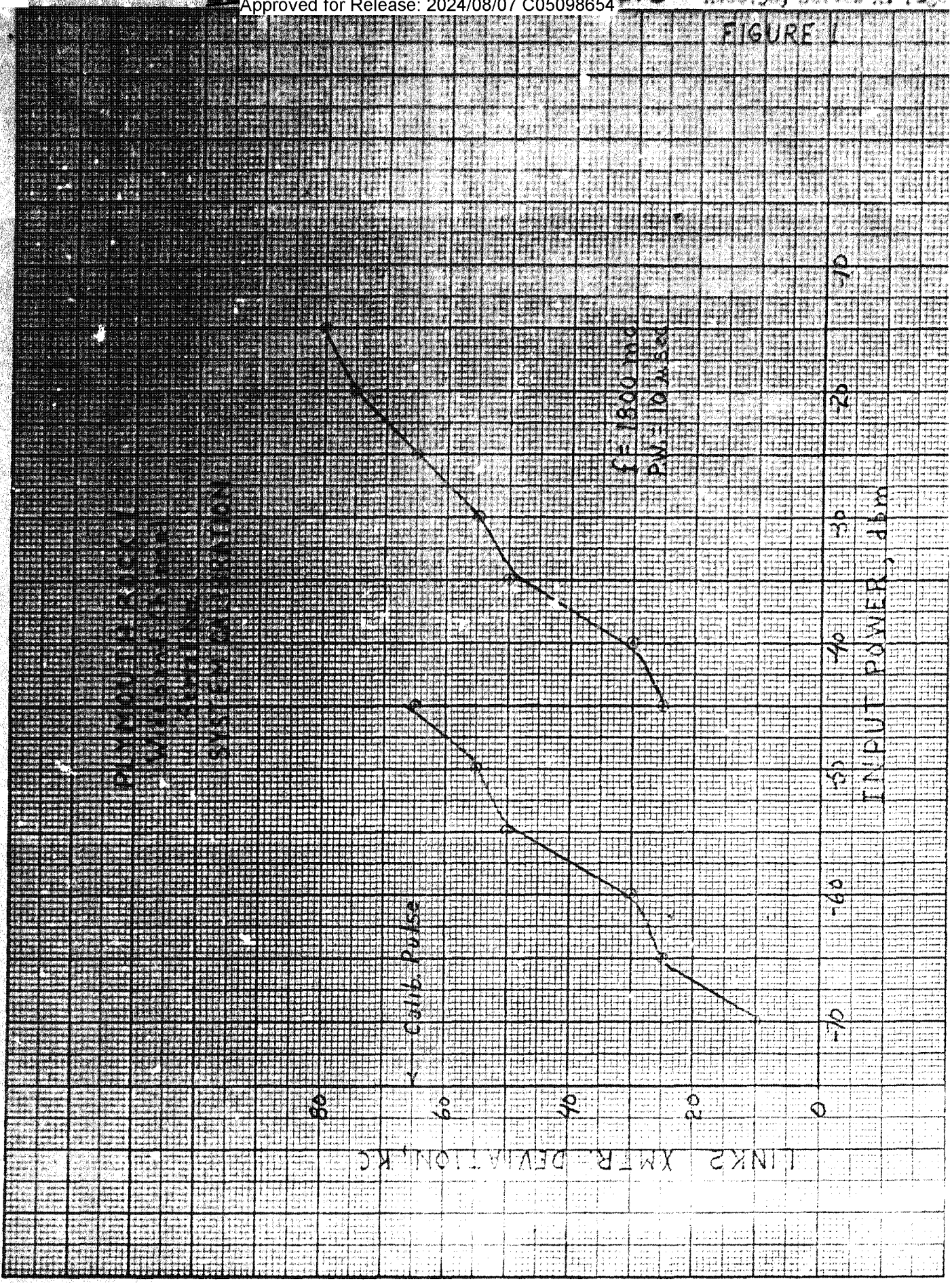
**Figure 5. Pulse Width Detector Output versus Pulse Width.**

**Figure 6. Thermistor Output versus Temperature, °C.**

**Figure 7. Sweep Time versus Frequency.**

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FIGURE 1



K-E 10 X 10 TO THE 1/4 INCH  
KUPFER & ESSER CO. 369-120  
NEW YORK, N.Y.

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FIGURE 2

K&E 10X10 TO THE W/INCH 350-120  
NEUTEL & ESSER CO. PATENT #

PLYMOUTH ROCK L  
Narrow band Channel  
SERIAL No.  
SYSTEM CALIBRATION

Positive Marker  
(Sweep Start)  
Negative Marker  
(Sweep Stop)

160

120

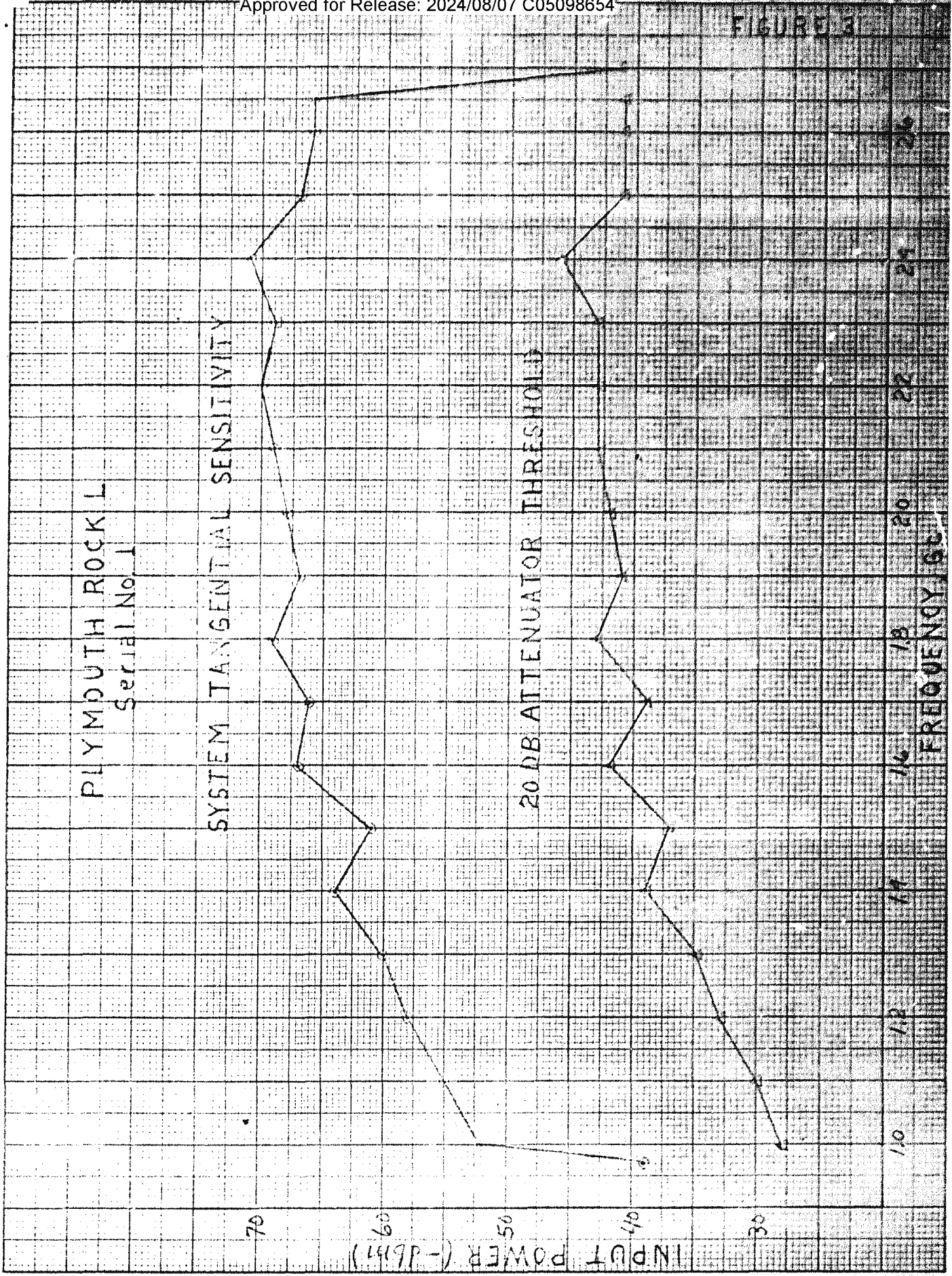
80

40

0

LINE 1 XMIT. DEVIATION KC

FIGURE 3



K&E 10X 10 TO THE 1/2 INCH KEUFFEL & ESSER CO

FIGURE 4

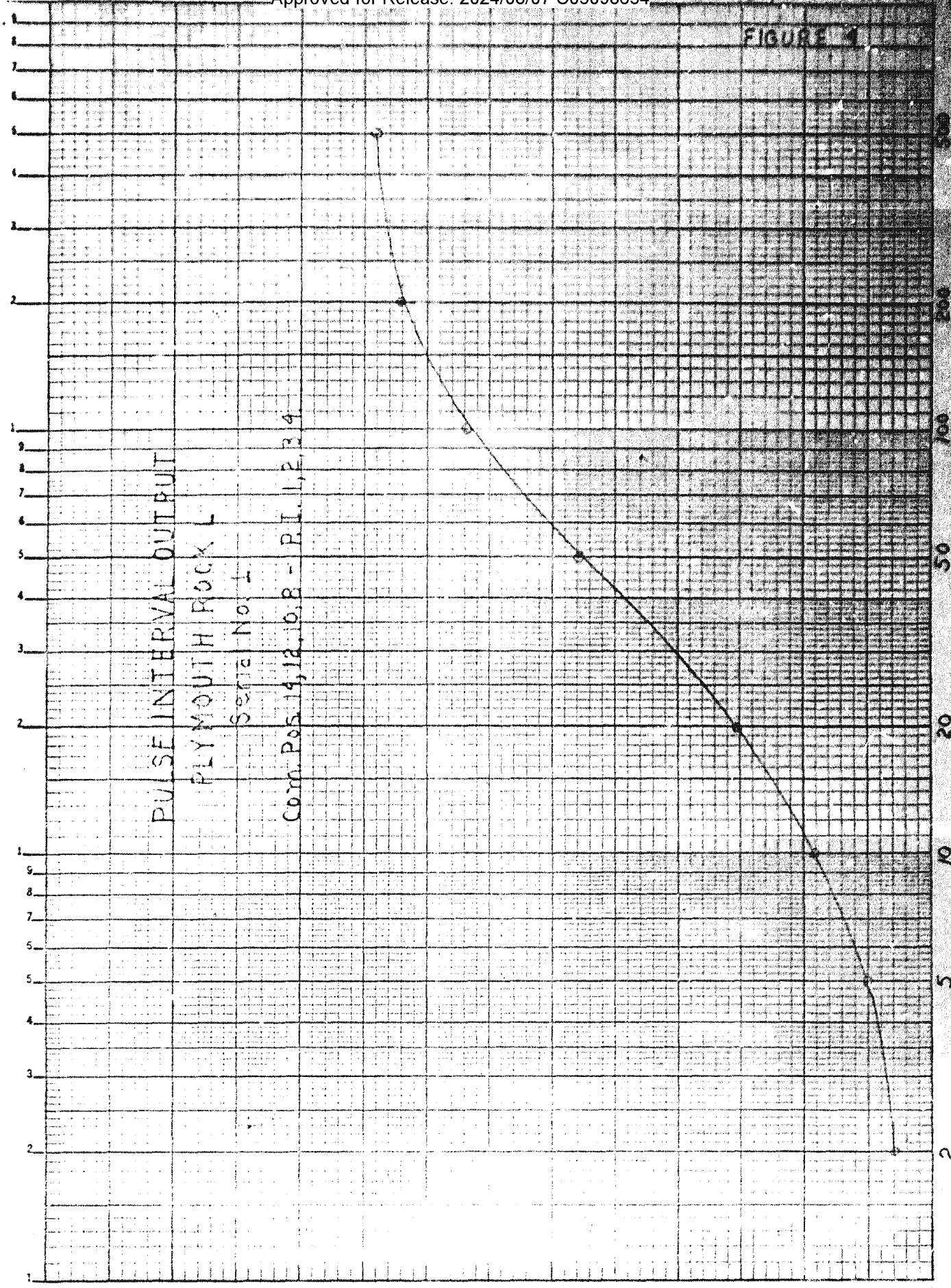
K&E SEMI-COARDED  
PROPPAL & ESSERCO  
5 CYCLES X 70 DIVISIONS ALBANY, N.Y.

PULSE INTERVAL OUTPUT

PLYMOUTH ROCK

Series No. 1

Com. Pos. 14, 12, 10, 8 - P.I. 1, 2, 3, 4



K-E SEMI-LOGARITHMIC  
SCALES & CURVES CO.  
3 CIRCLES & 70 DIVISIONS

389T-716  
MAY 1954  
ALUMINUM 2

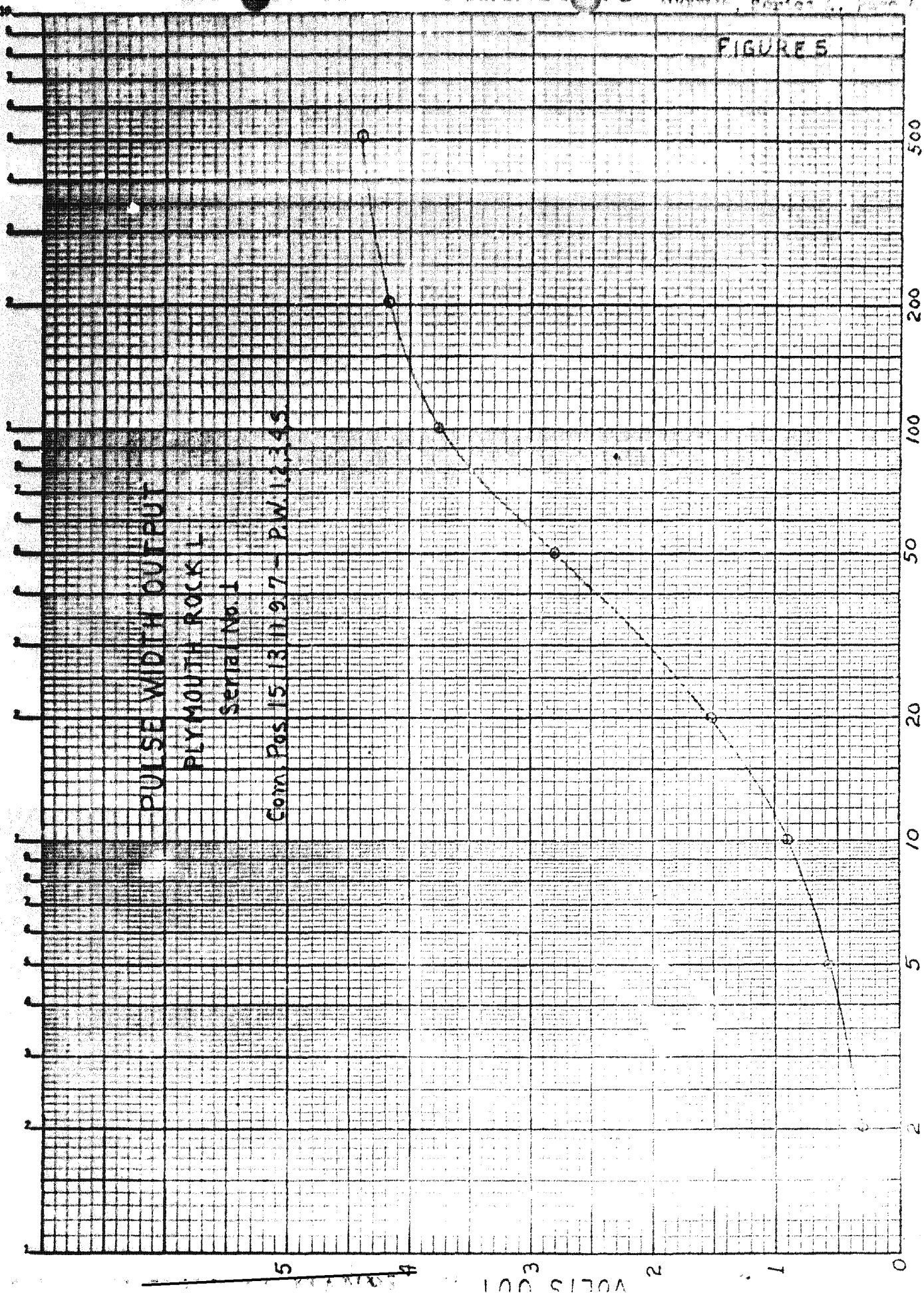
PULSE WIDTH OUTFIT

PLYMOUTH ROCK I

SERIAL NO. 1

COM. POS 15 13 11 9 7 - PW 12345

FIGURE 5



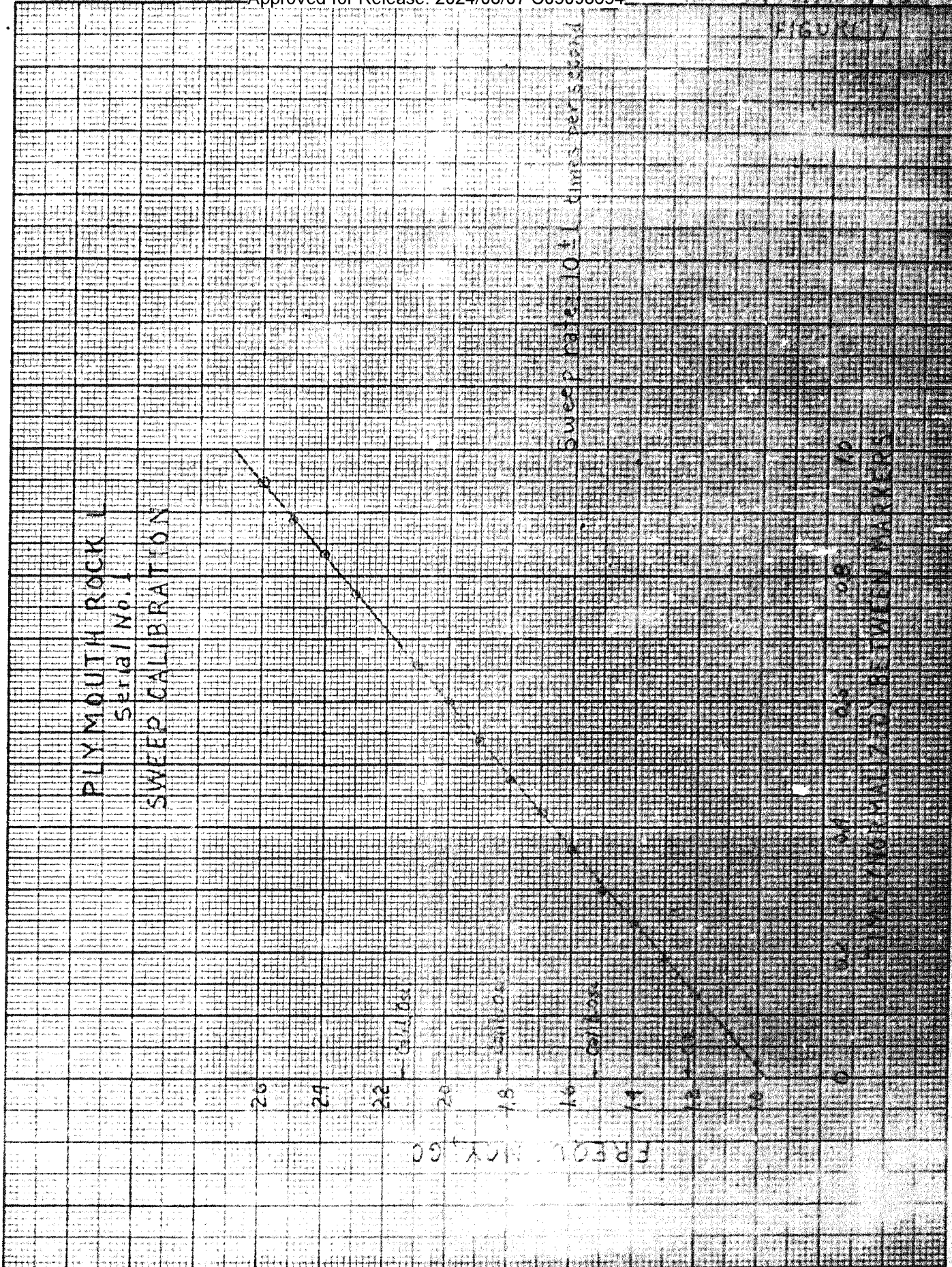




K&E 10 X 10 TO THE 1/2 INCH 359-12G  
KUDYELA & LESER CO. MADE IN U.S.A.

PLYMOUTH ROCK L  
Serial No. 1  
SWEEP CALIBRATION

FIGURE 1

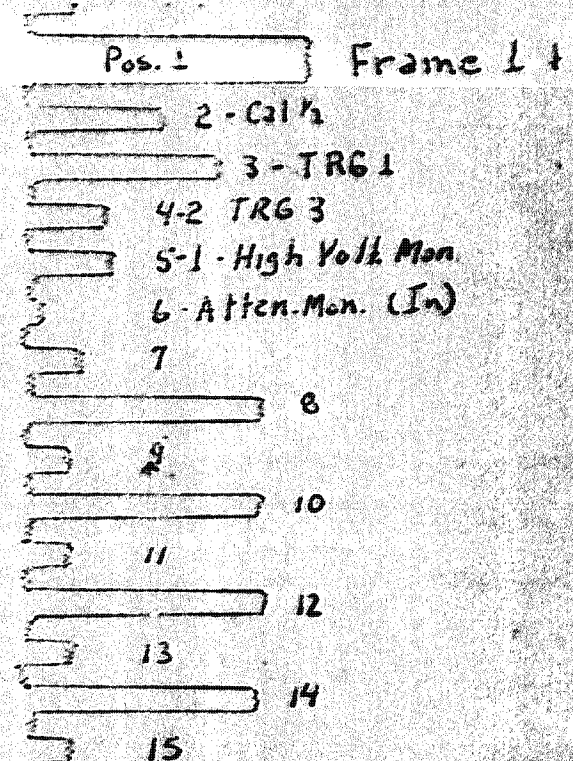
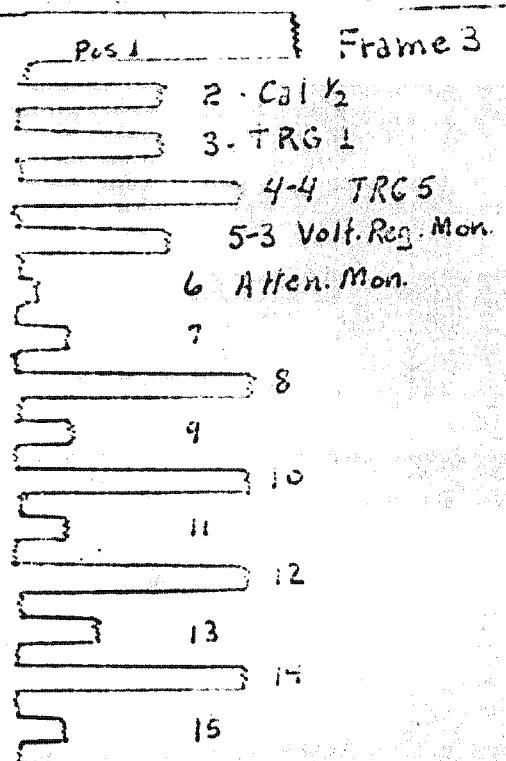


SWEEP RATE (10 TIMES PER SECOND) BETWEEN MARKERS

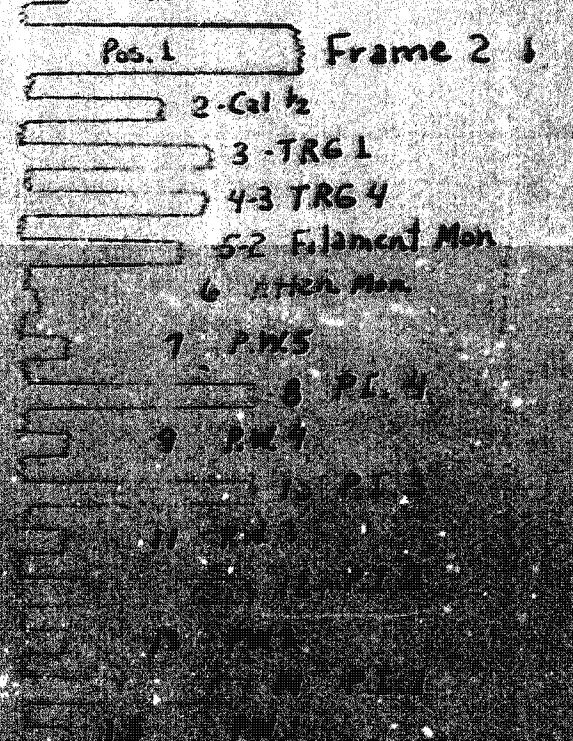
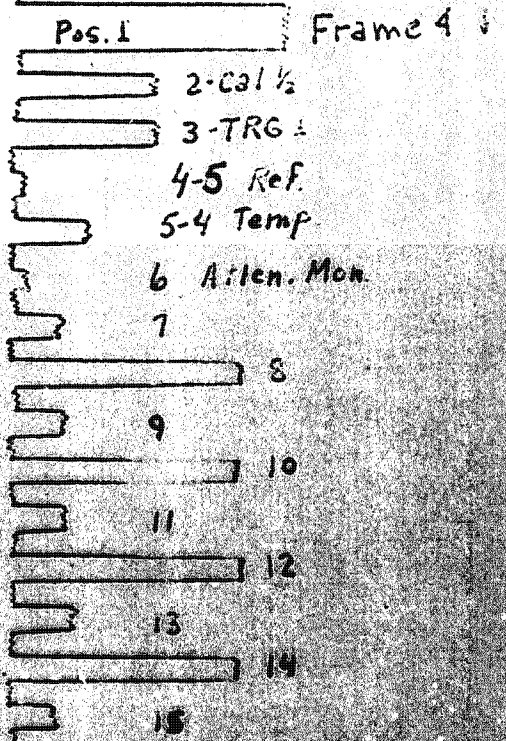


# PLYMOUTH ROCK L

Commuted Data Sample From Systems Test



NOTE: Pulse Width @ 12 μsec. PRF = 400, -15 dbm Signal Level



Frame 5 ↓