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AV00736, Series 1

64-10
10/22/64

APPENDIX TO
TECHNICAL REPORT
FOR
PLYMOUTH ROCK L



Section II. B. 3 Calibration Data

Section II. B. 5 Commutator Schedule

51738

SH 4176
64

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1 AUGUST 2015

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AW00736, Series A

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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.

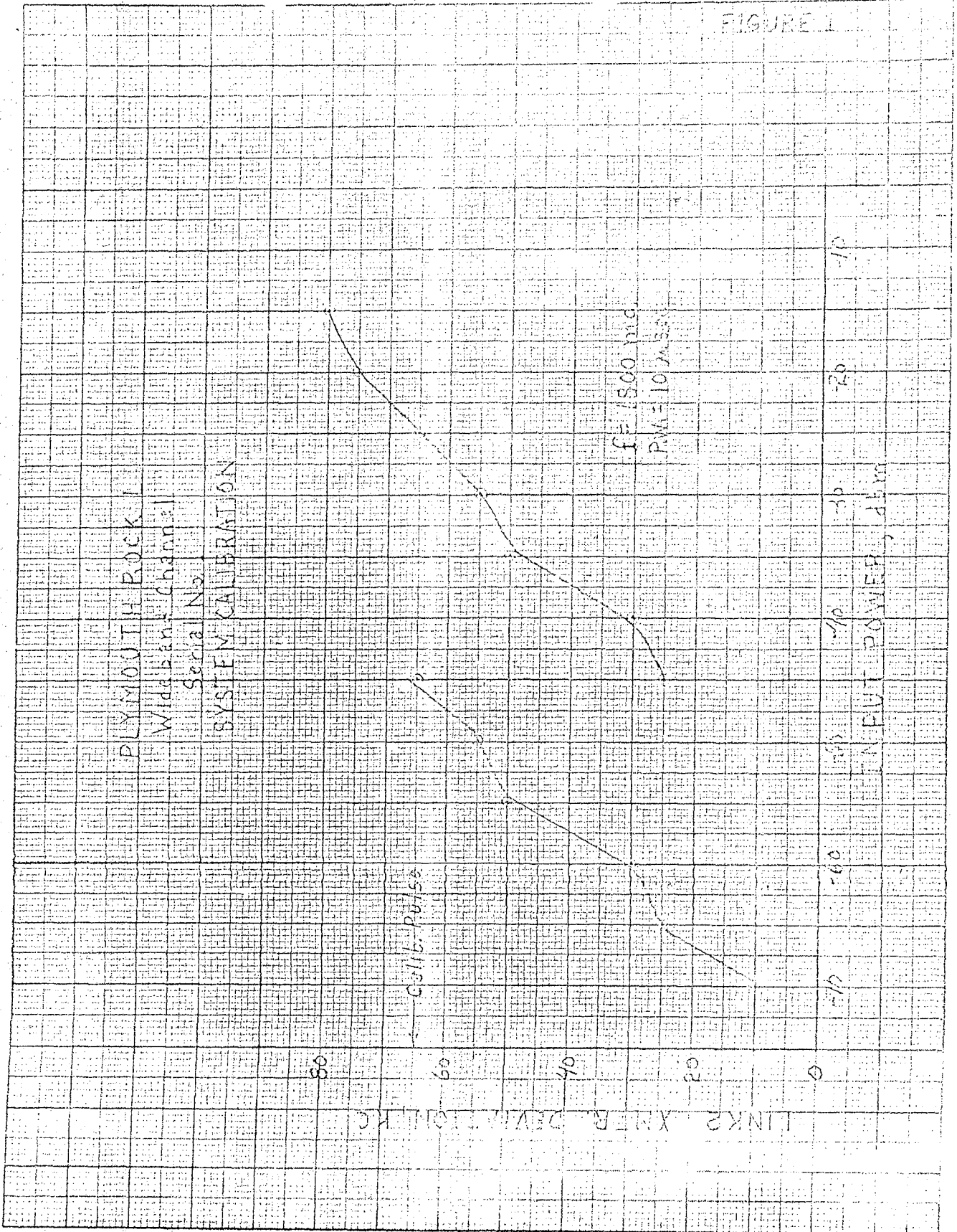
Figure 6. Thermistor Output versus Temperature, °C.

Figure 7. Sweep Time versus Frequency.

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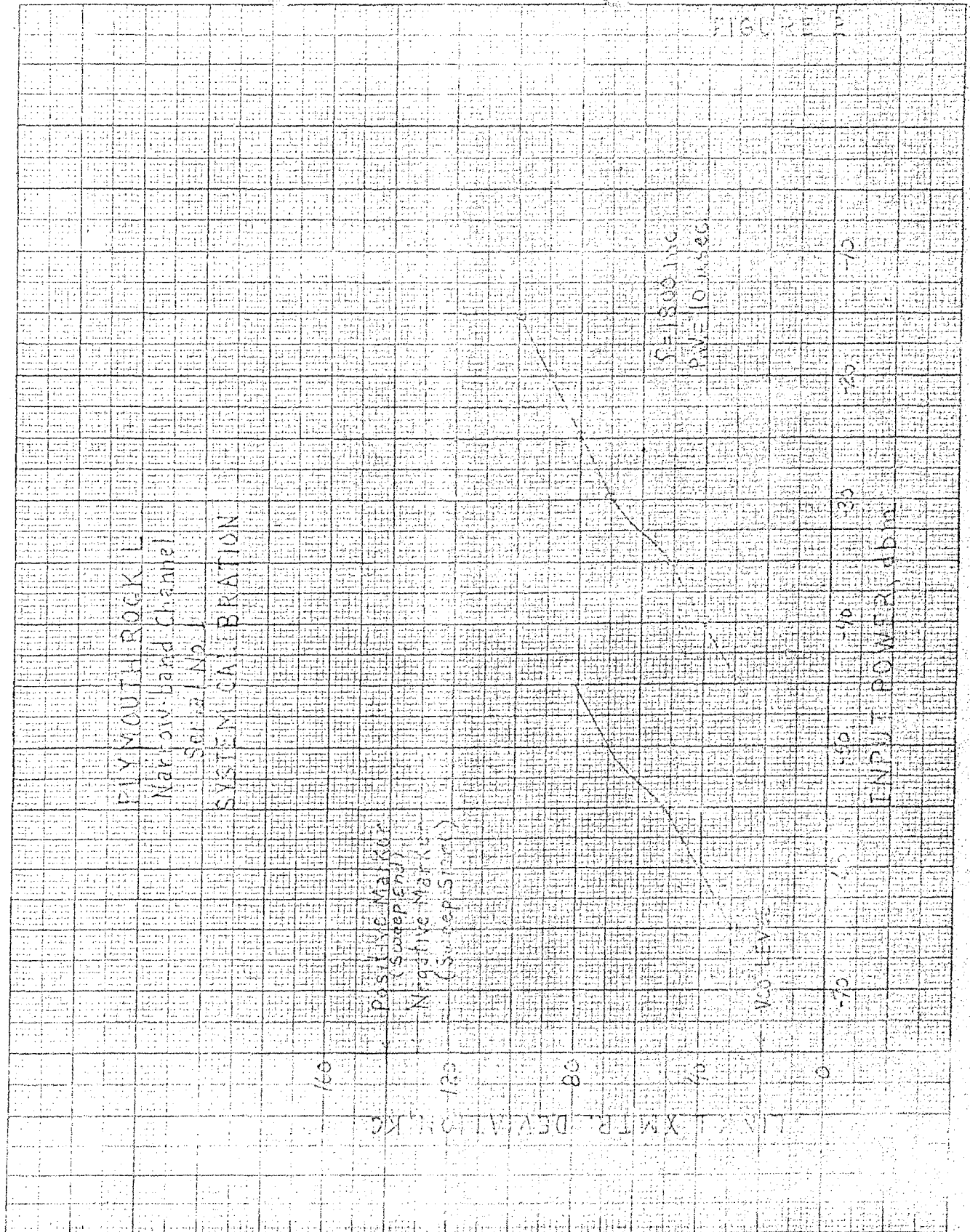
FIGURE 1



Key 10 X 10 TO THE 1/2 INCH
KUFFEL & ESSER CO. 350-12G
MADE IN U.S.A.

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FIGURE 2



10X10 TO THE MINOR 359-120
KEUFFEL & ESSER CO. MODEL 7-A

10 X 10 TO THE 1/2 INCH
KEUFFEL & ESSER CO.
MADE IN U.S.A.

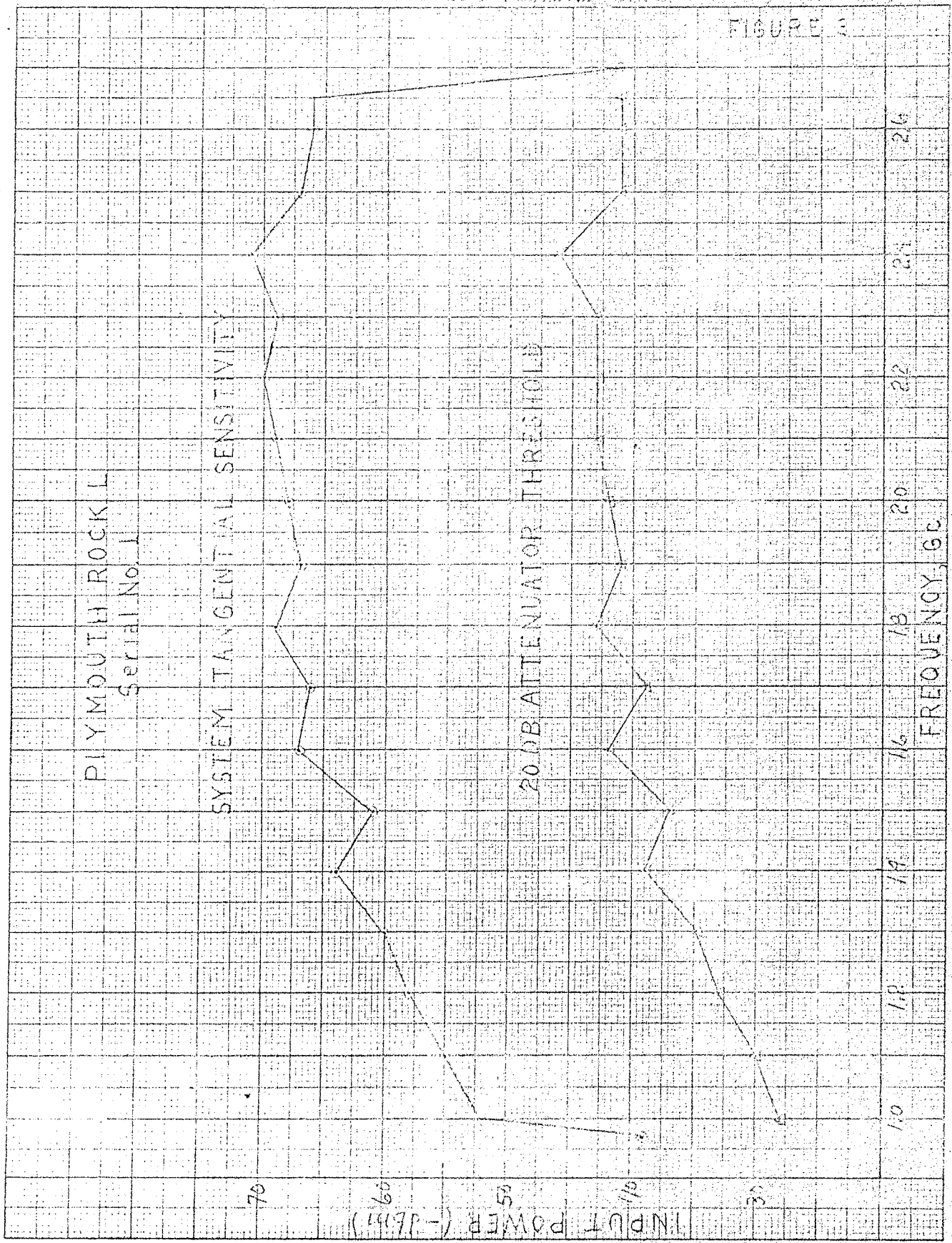


FIGURE 3

PLYMOUTH ROCK L
Serial No. 11

SYSTEM TANGENTIAL SENSITIVITY

20.0 DB ATTENUATOR THRESHOLD

FREQUENCY, GC

350T-71G
SEMI-LOGARITHMIC
KEUFFEL & ESSER CO.
3 CYCLES X 70 DIVISIONS
ALBANY, N.Y.

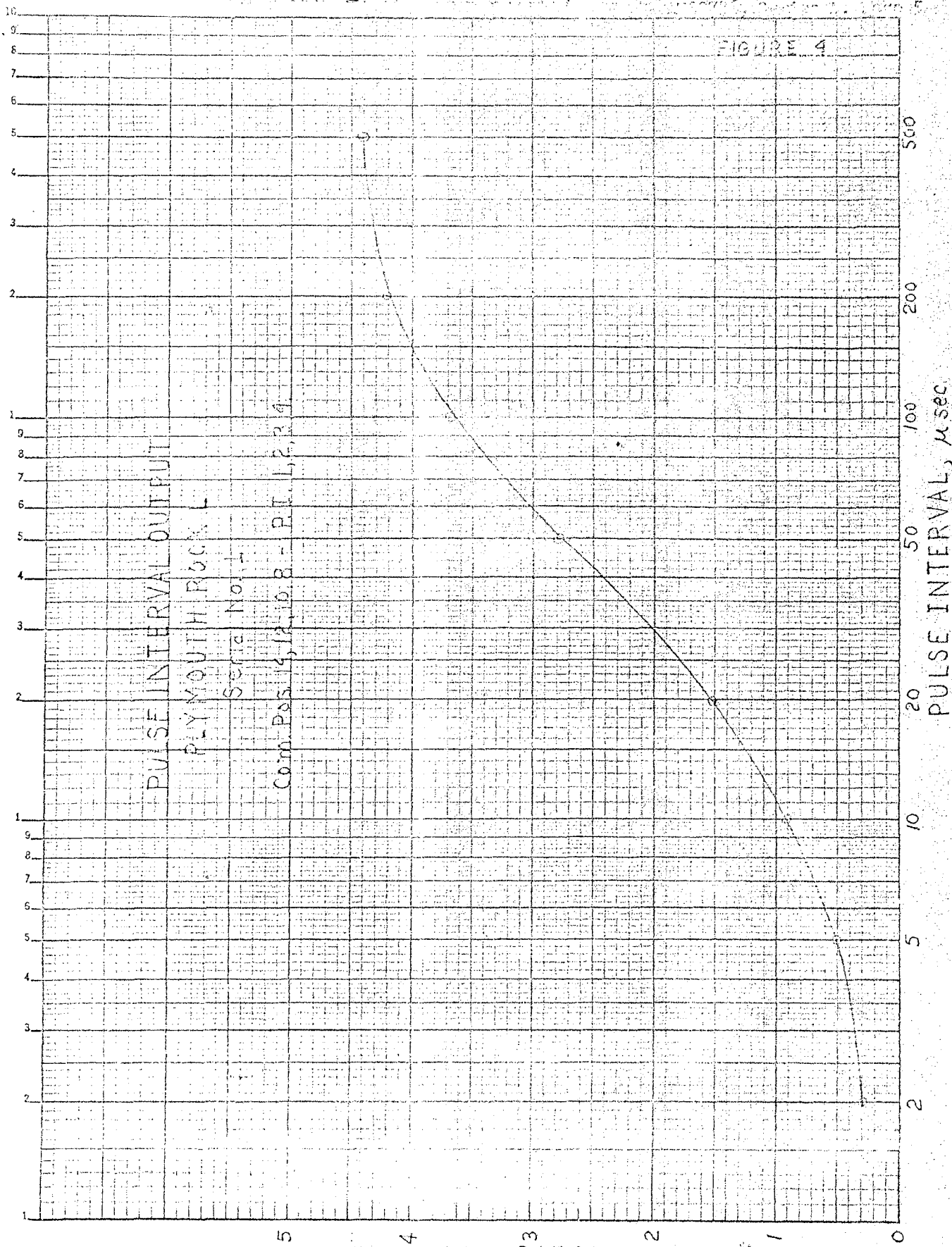
PULSE INTERVAL OUTPUT

PLYMOUTH ROCK

Serial No. 1

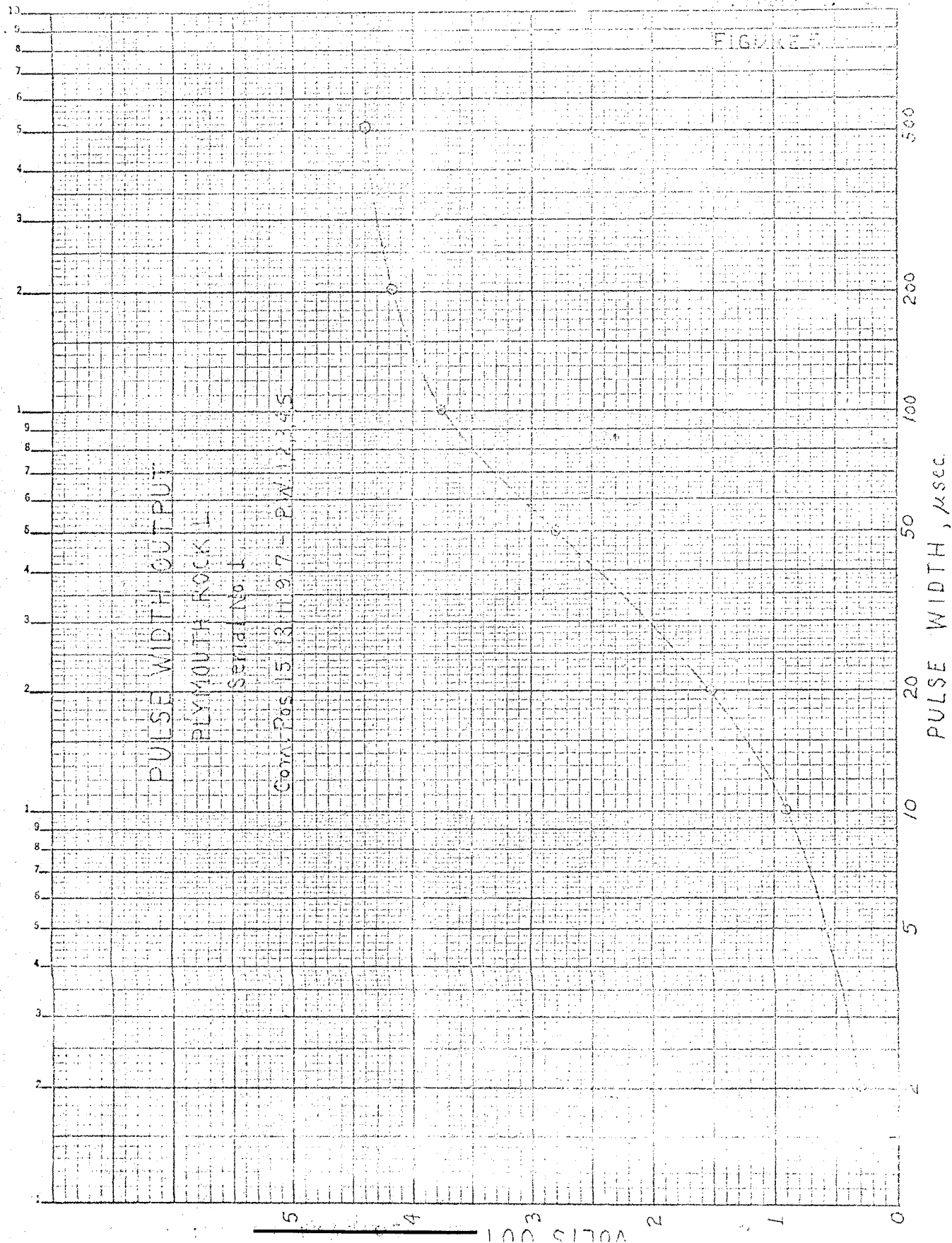
Comp. Pos. 1, 12, 10, 8 - P.I. 1, 2, 3, 4

FIGURE 4

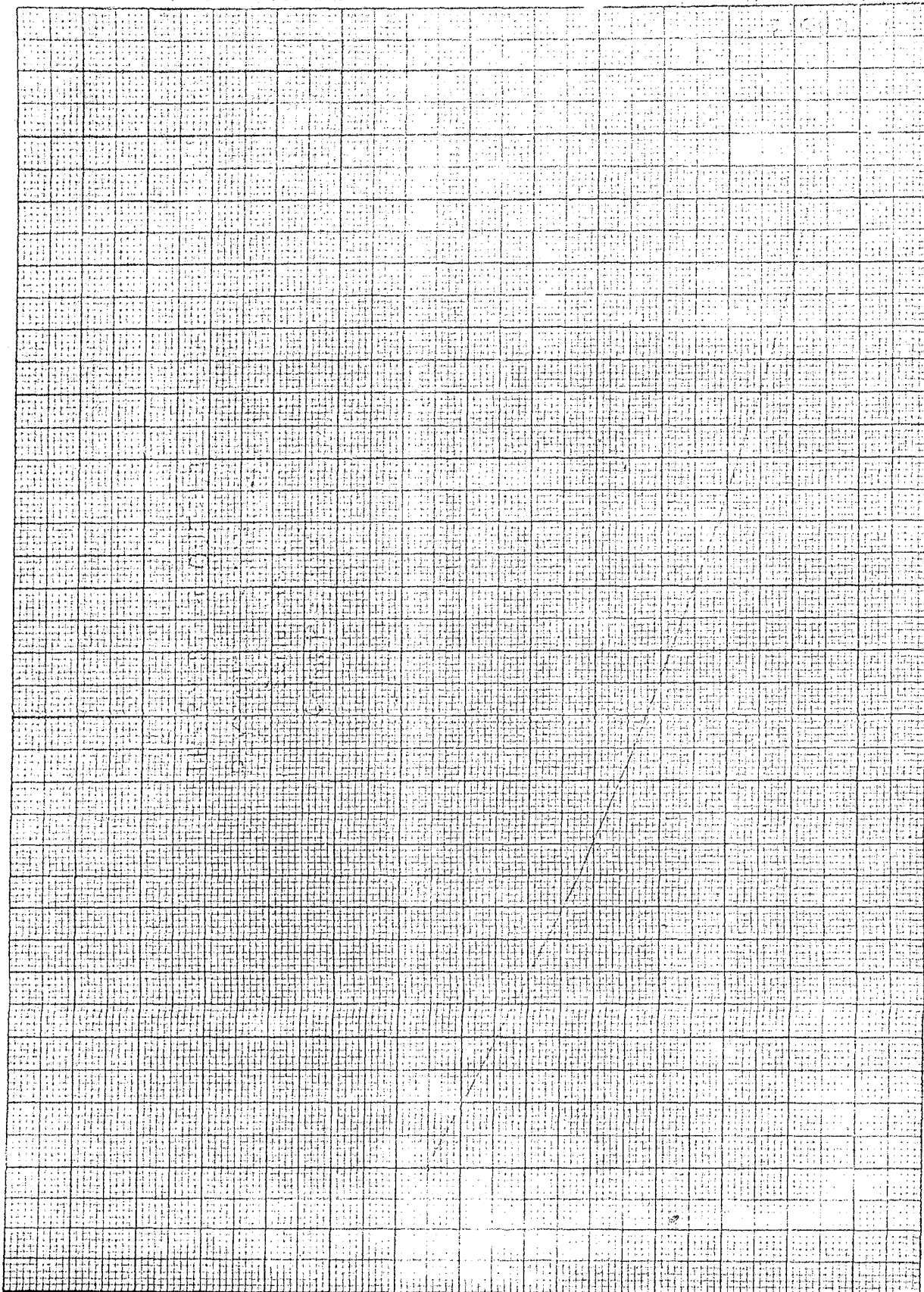


5
4
3
2
1
0
100 9170A

359T-71C
PENULSARITHMIC
REFLECTOR
3 CYCLES X 70 DIVISIONS
ALBANY, N.Y.



K&E 10 X 10 TO THE 1/4 INCH 359-11
KEUFFEL & ESSER CO. MADE IN U.S.A.



150

75

0

TEMPERATURE, °C

0 1 2 3 4 5
VOLTS OUT

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AW00730, Series A.
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II. E. 5. Commutator Schedule, Plymouth Rock I.

Note: VCO Center Frequency 10 kc. (40 kc on playback)
Commutator Speed 1 r.p.s.

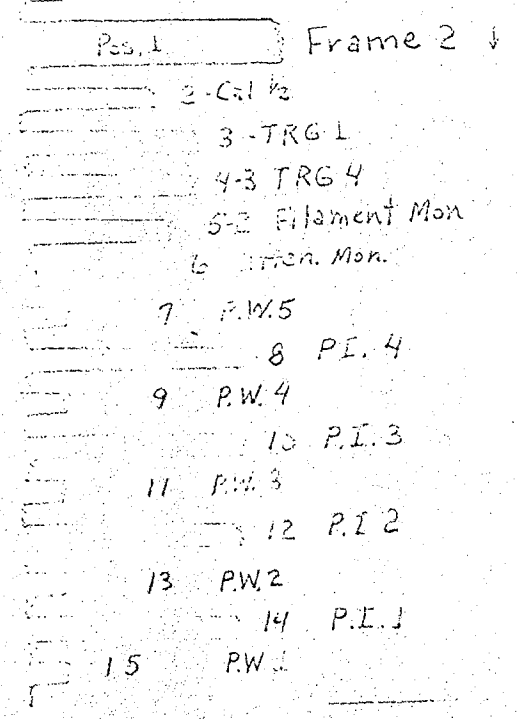
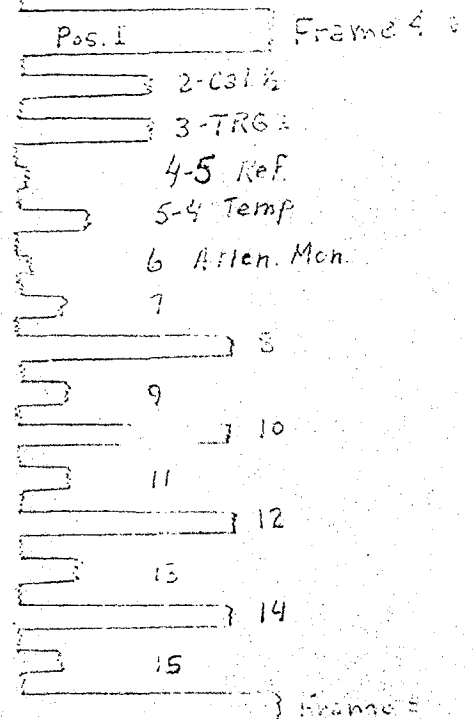
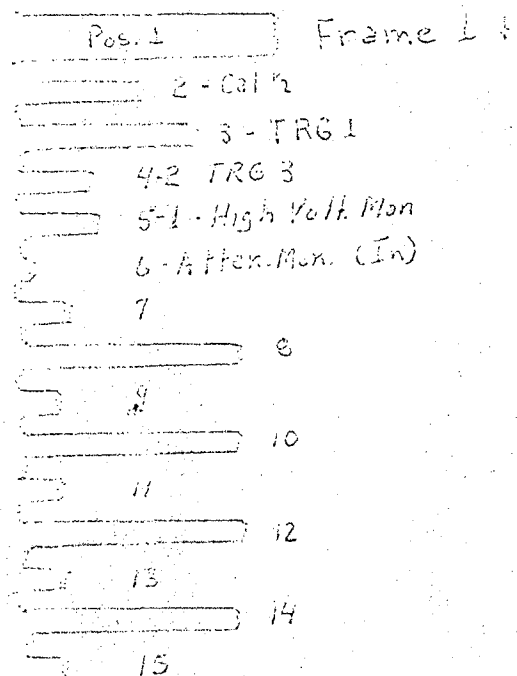
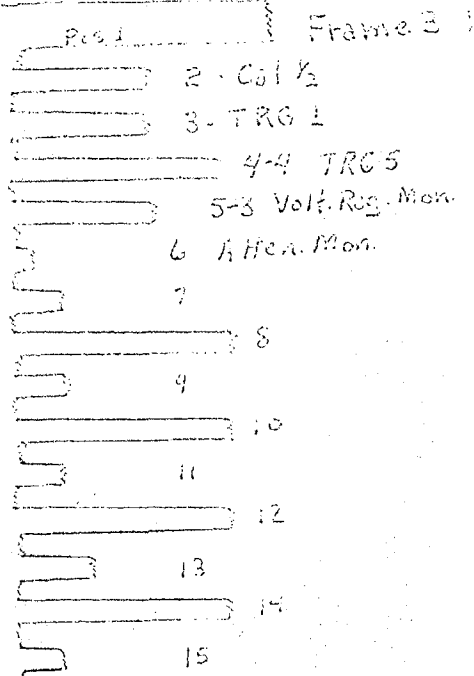
<u>Position</u>	<u>Description</u>	<u>Level-Volts</u>
1	Sync (Double width)	5.2
2	Cal 1/2	3.6
3	Time Ref. Gen. Output 1	4 sec. steps - 8 levels
4-1	T.R.G. 2	32 sec. steps - 8 levels
4-2	T.R.G. 3	656 sec. steps - 8 levels
4-3	T.R.G. 4	2,043 sec. steps - 8 levels
4-4	T.R.G. 5	16,304 sec. steps - 8 levels
4-5	Reference	0
5-1	High Voltage Mon.	1.5
5-2	Filament Mon.	3.1
5-3	Voltage Reg. Mon.	2.9
5-4	Temperature	See Figure 6
5-5	Reference	0
6	Attenuator Mon.	Out 2.7 v, In 0.2 v.
7	Pulse Width 5	See Calibration Curves
8	Pulse Interval 4	"
9	Pulse Width 4	"
10	Pulse Interval 3	"
11	Pulse Width 3	"
12	Pulse Interval 2	"
13	Pulse Width 2	"
14	Pulse Interval 1	"
15	Pulse Width 1	"

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PLYMOUTH ROCK L

Commutated Data Sample From Systems Test



NOTE: Pulse Width = 12 μsec, P.R.F. = 400, -15dbm Signal Level

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