

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG

SCHLUMBERGER OF CANADA Calgary Alberta

PROVINCE YUKON TERRITORIES
 FIELD WILDCAT
 WELL SOBC WM E PORCUPINE YT
 1-13
 COMPANY CHEVRON STANDARD LIMITED

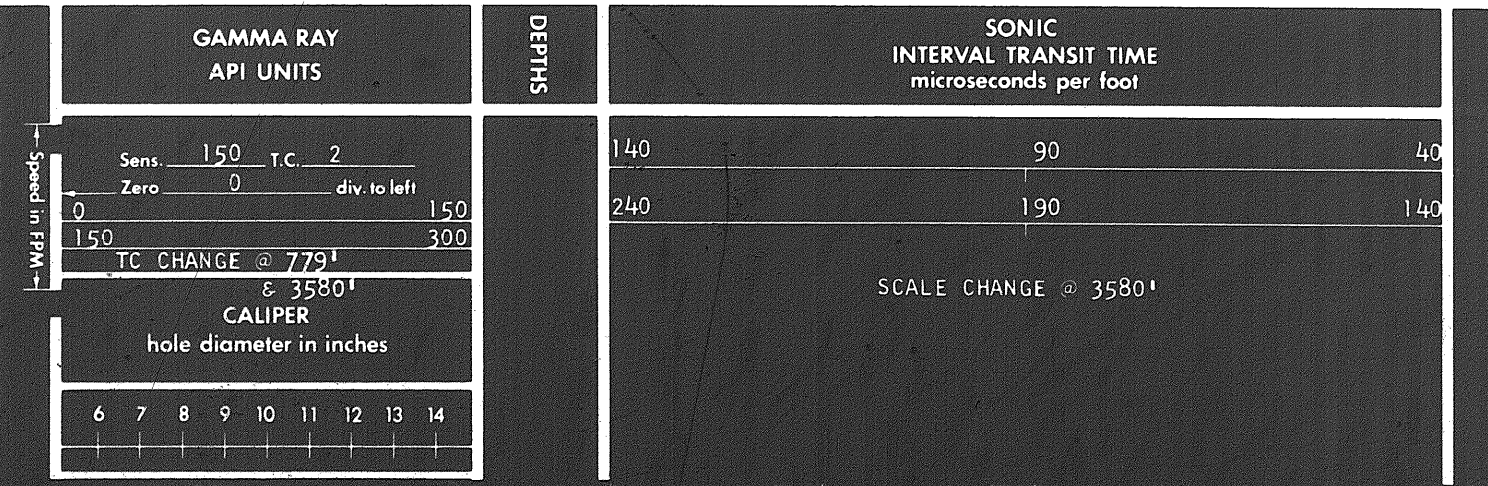
COMPANY CHEVRON STANDARD LIMITED
 WELL SOBC WM E PORCUPINE YT
 1-13
 FIELD WILDCAT
 PROVINCE YUKON TERRITORIES
 LOCATION 66° 02' 35" N LAT
 137° 46' 58" W LONG
 Permanent Datum GL Elev. 1645
 Log Measured from KB 21 Ft. Above Perm. Datum
 Other Services: SNP-GR,
 FDC-GR, IES, ML, DIL
 CST, SRS
 ELEV: KB 1666
 GL 1645
 GBF

Date	15 FEB 71	19 APR 71
Run No.	ONE	TWO
First Reading	779	8001
Last Reading	70	796
Feet Measured	709	7205
Depth Reached	788	8003
Bottom Driller	804	8000
Csg SOC	70	796
Csg Driller	65	799
Mud Nature	GEL	GEL CHEM
Dens Visc	8.8	50
Mud pH	-	10.0
Water Loss	-	9.5
Ras. @ BHT	RHKS @	RHKS @
Rmf	6.61 @ 47' @	2.38 @ 64' @
Rmc	5.28 @ 47' @	3.40 @ 64' @
Bit Size	17 1/2"	8 3/4"
Spoon	2	1
Oper. Rig Time	2.5 HRS	6 HRS
Truck No.	OSU-C-108 REM	OSU-C-108 REM
Recorded By	NICKERSON	CHADDOCK
Witness	HANSEN & GLEITZ	POLLARD

31 MAY 1971 CAL JP

REMARKS	1st Run Service Order # 5692
Drilling Stopped 1800 / 14th	Circulation Stopped 2000 / 14th
Tool on Bottom 0300 / 15th	B.H.T. 89 °F
RUN 2: 0730 19th	2200 19th 150
Caliper No. D 1035	MUD SAMPLES: Rm #1 = 6.18' @ 51°F - 1900 / 14th
Cartridge No. A 96 B 84	RUN 1 Rm #2 = 6.17 @ 51°F - 1920 / 14th
Panel No. A114 A 114	Rm #3 = 6.22 @ 50°F - 1940 / 14th
Sonde No. A 75 E 35	MUD SAMPLES: Rm #1 = 3.32 @ 67°F - 1330 / 19th
Centralizer Type BUMPER & VCD	RUN 2 Rm #2 = 3.27 @ 64°F - 1400 / 19th
STAND OFFS & CALIPER	Rm #3 = 3.26 @ 63°F - 1415 / 19th

GAMMA RAY CALIBRATION: TEMP 150°F - 7 HRS SINCE CIRCULATION			
Background CPS.	Test Source CPS.	Galv. Increase Divisions	Panel Sens. Tap for Cal.
40	420	10.0	PGP-D
RUN 2: 40	240	10.0	PGP-D



hole diameter in inches

6 7 8 9 10 11 12 13 14

104

Calibration after Survey

← Casing

0100

0200

0300

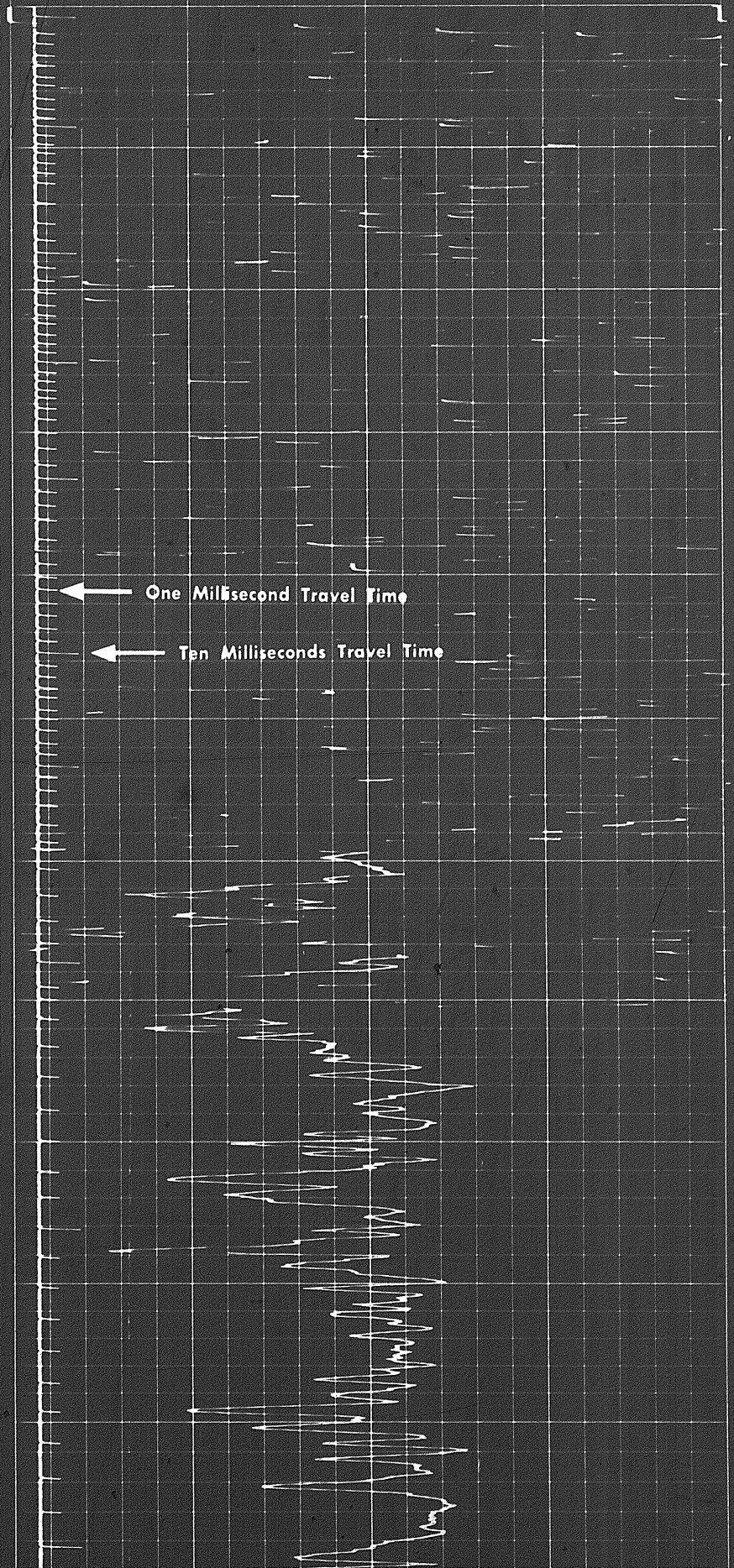
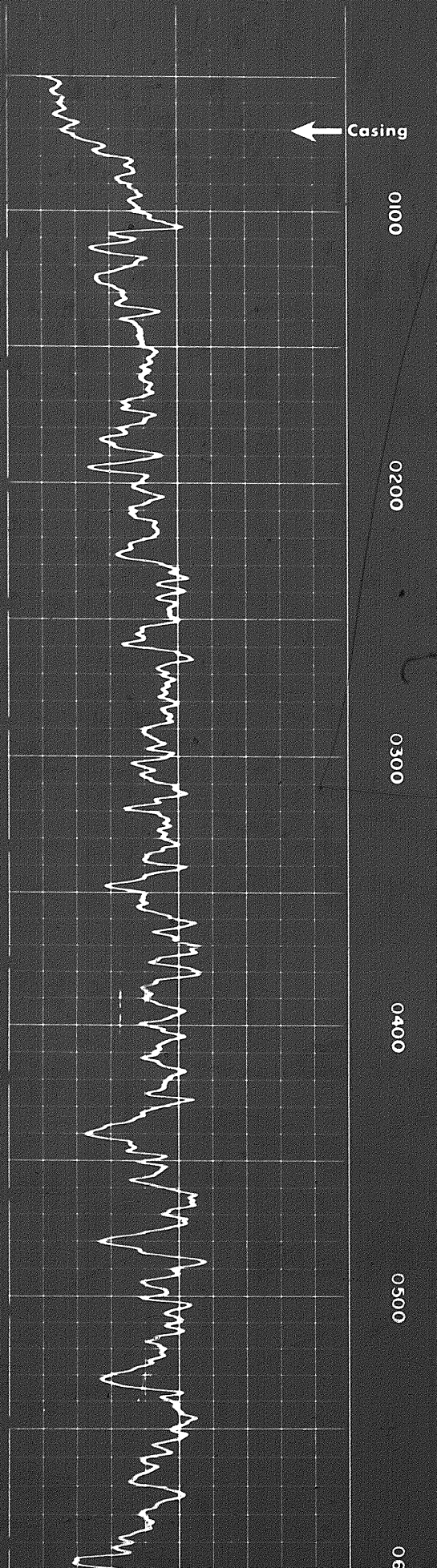
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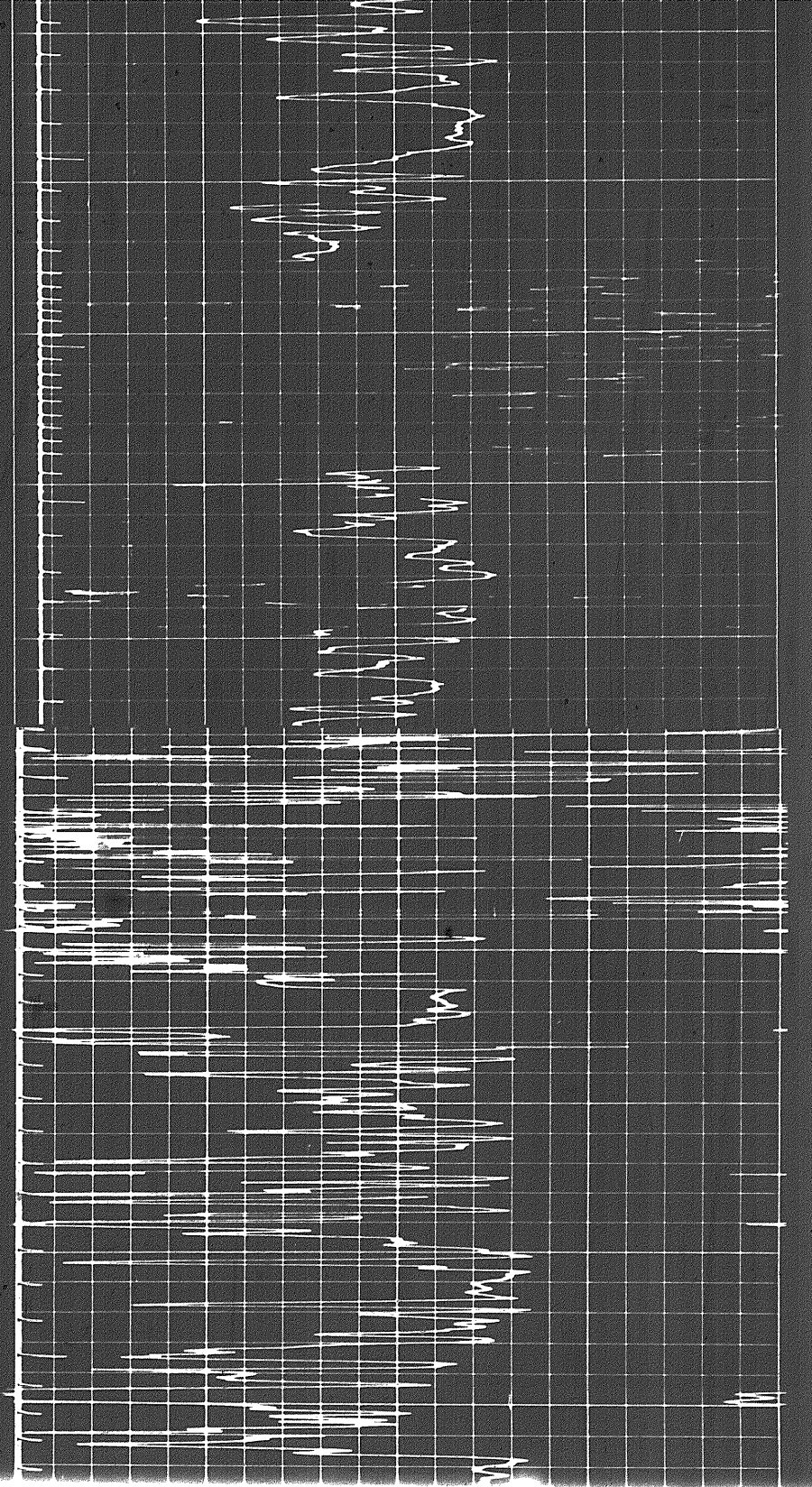
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0600

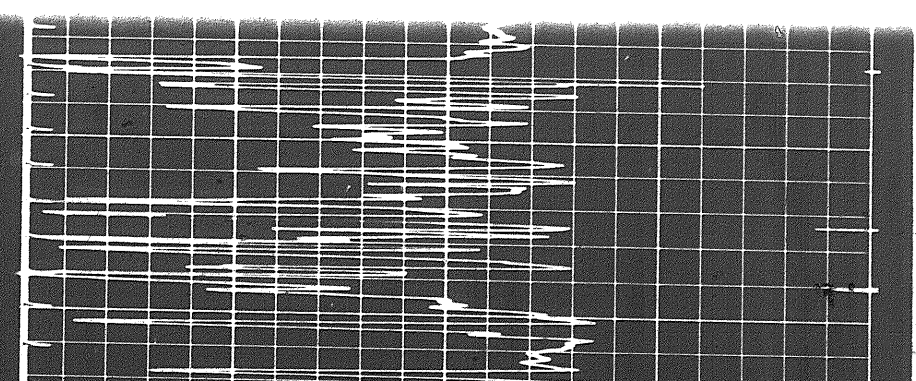
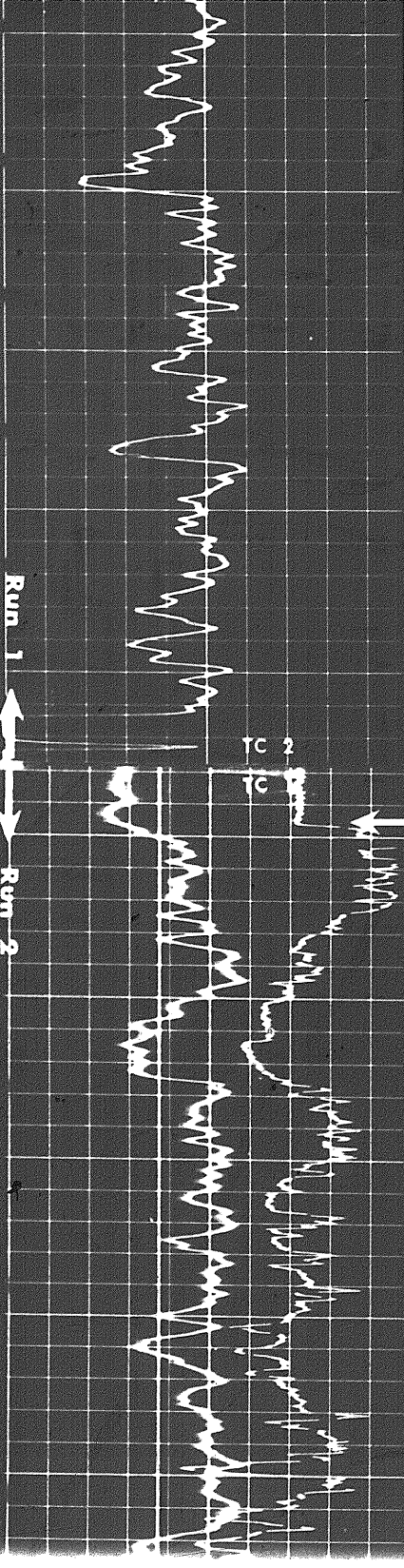
← One Millisecond Travel Time

← Ten Milliseconds Travel Time

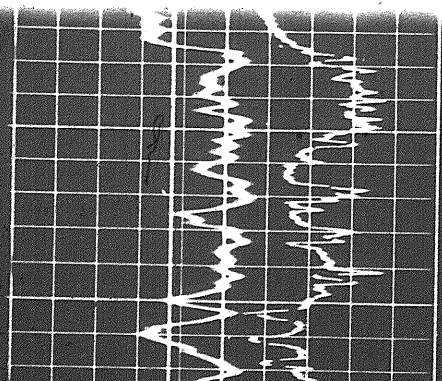


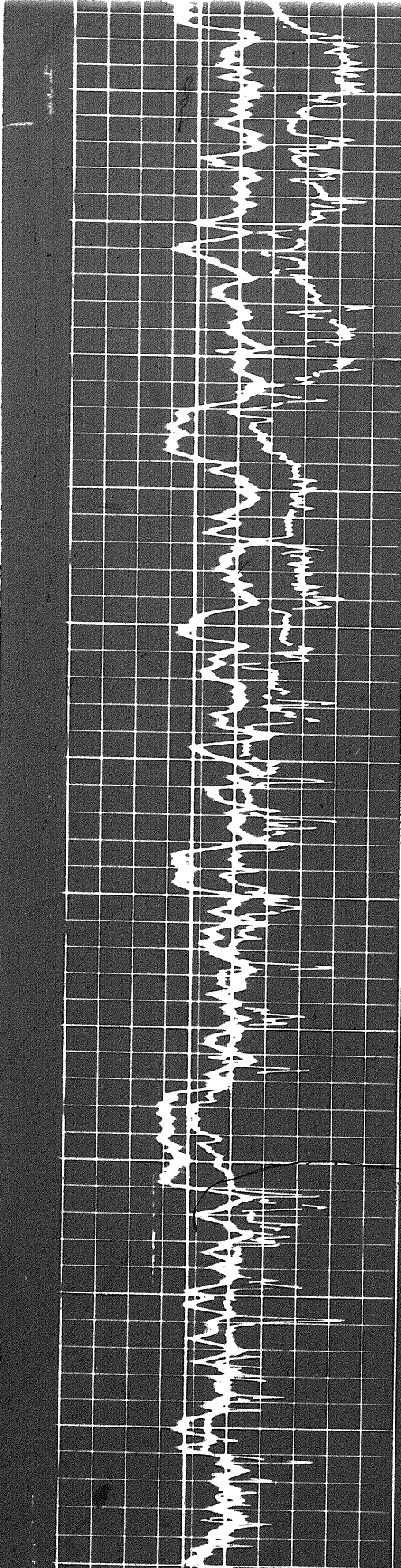


Case 8000



0060





0900

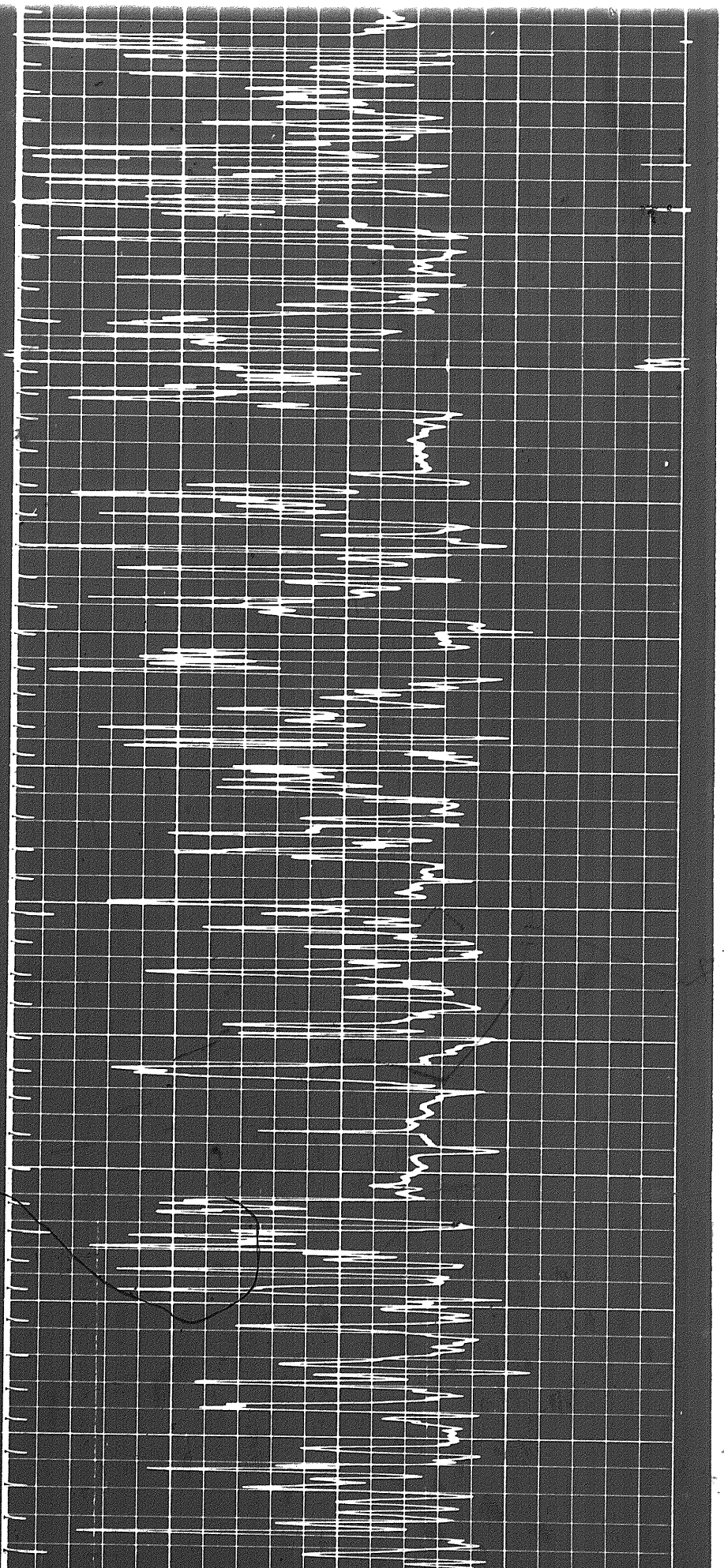
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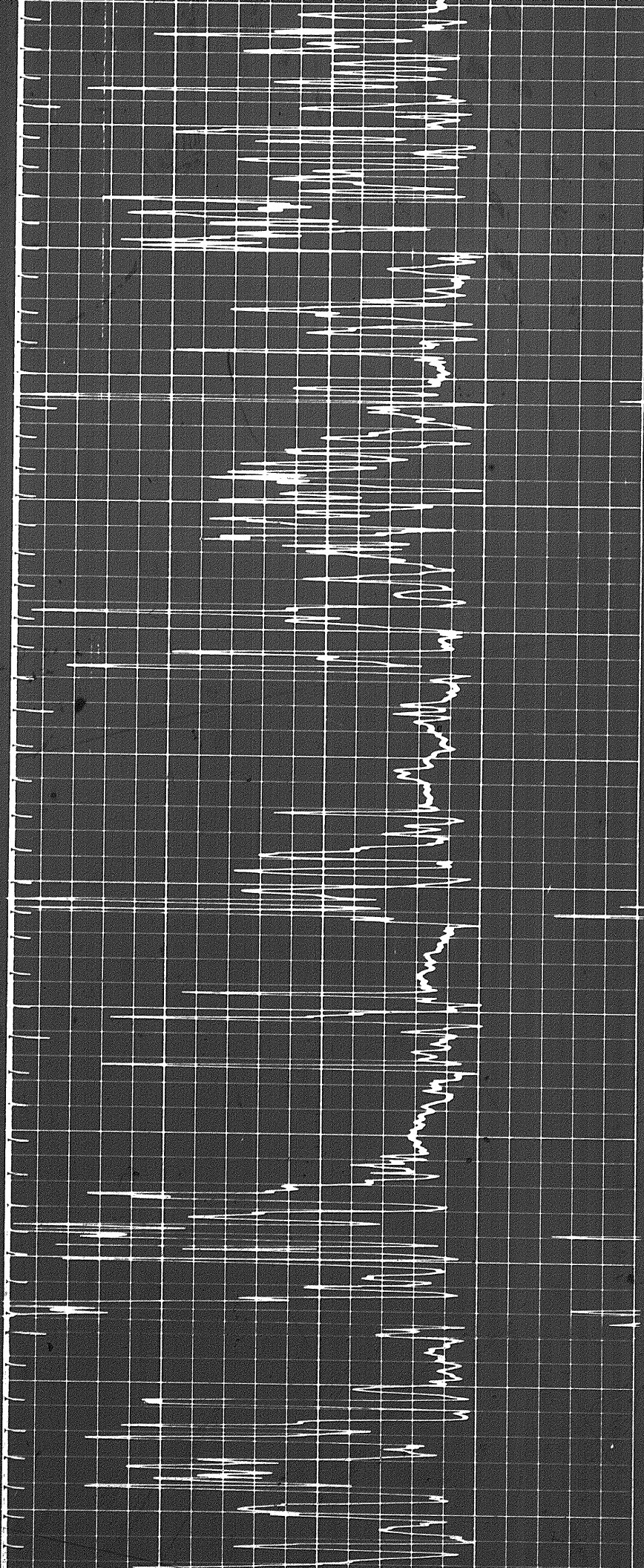
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1200

1300

1400





1500

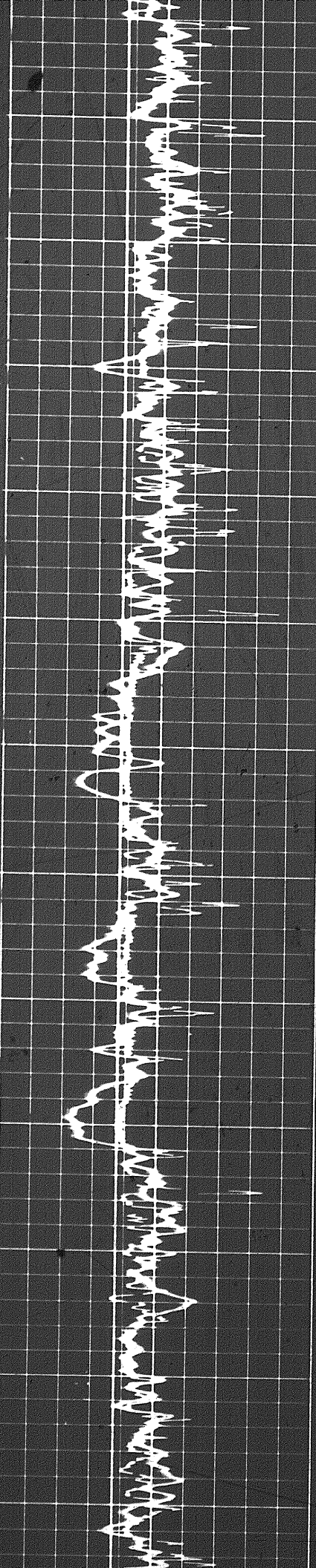
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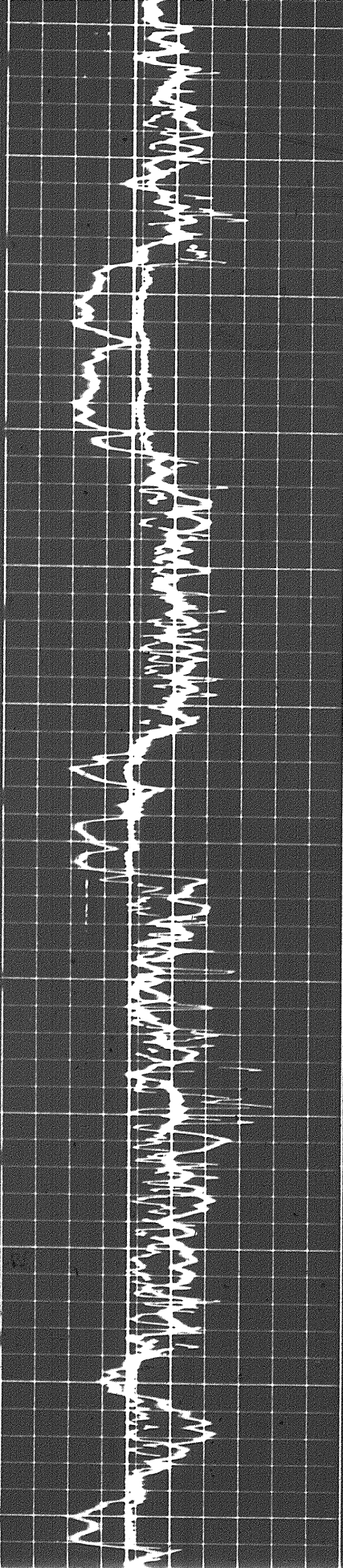
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1800

1900

2000





2000

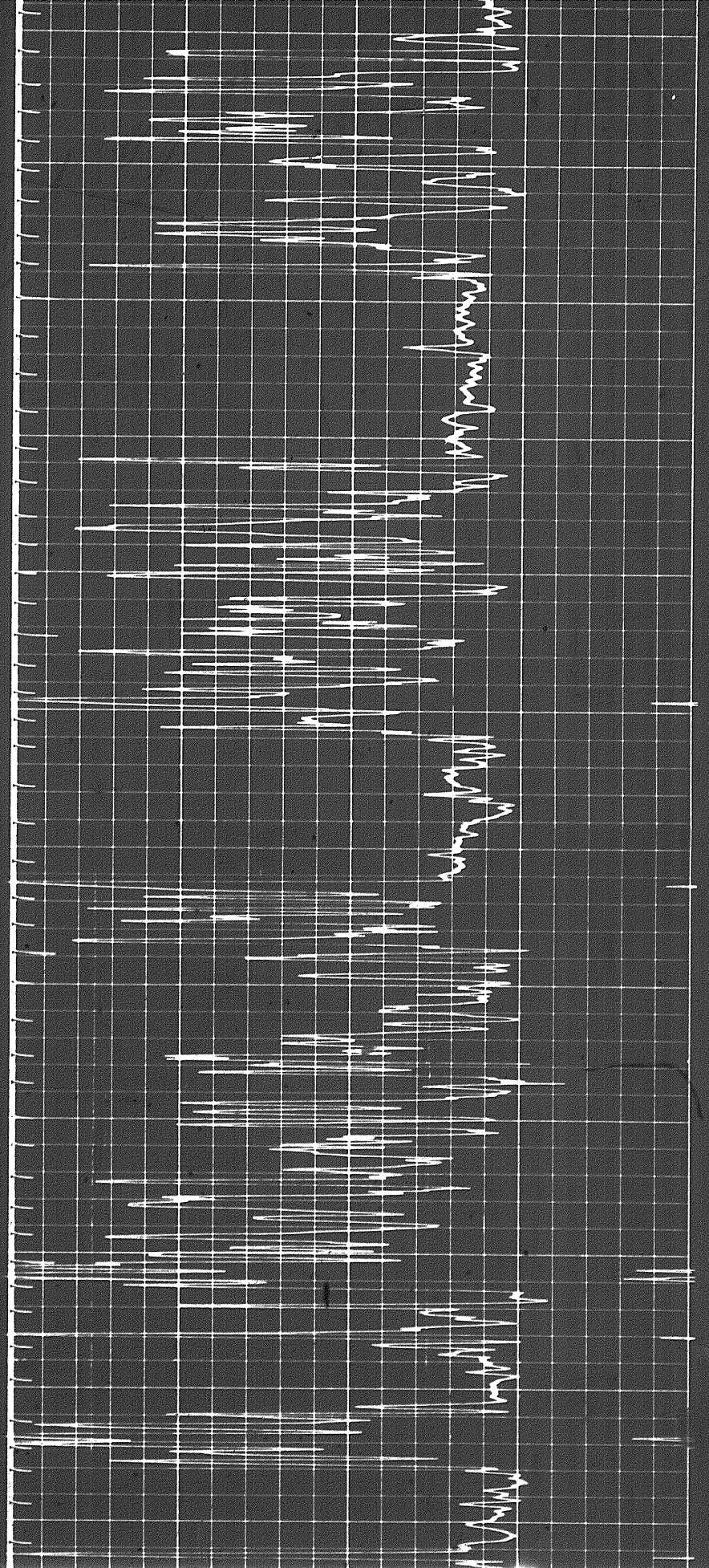
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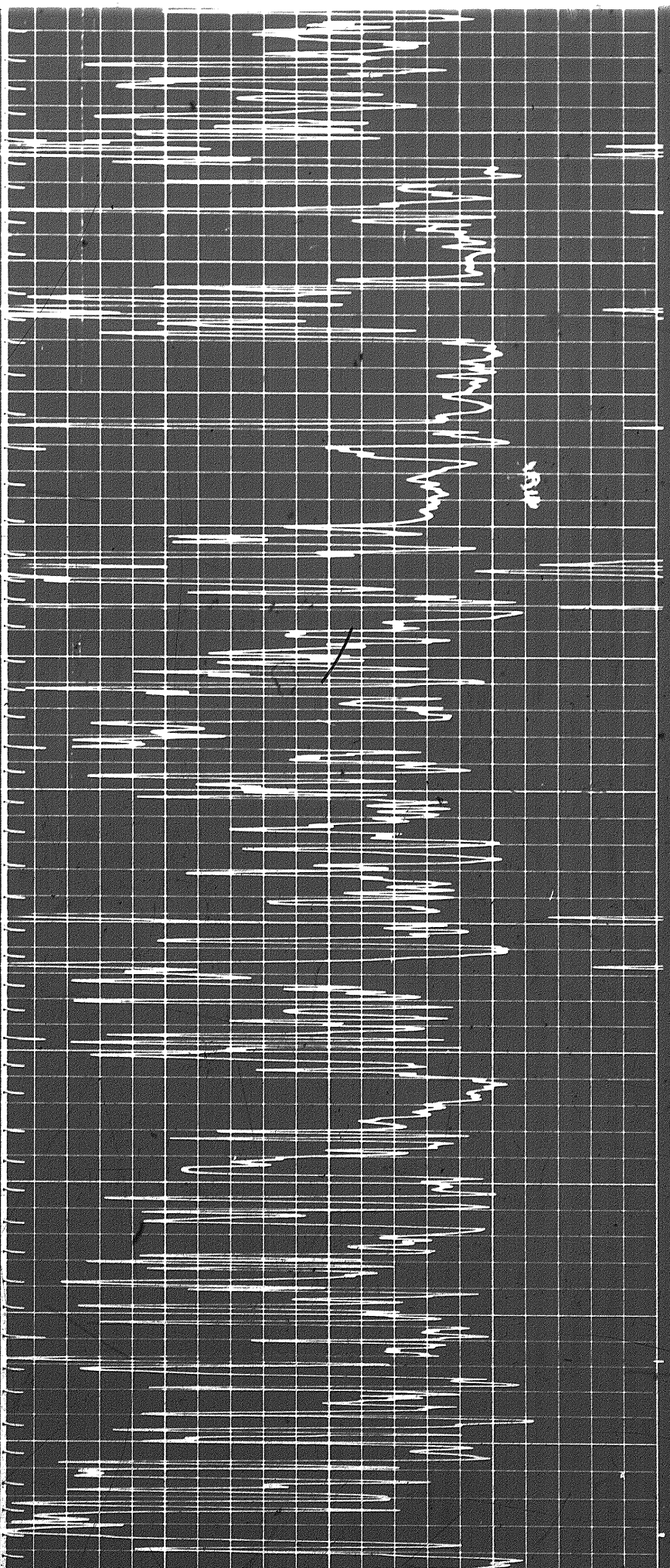
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2300

2400

2500





100

2400

1

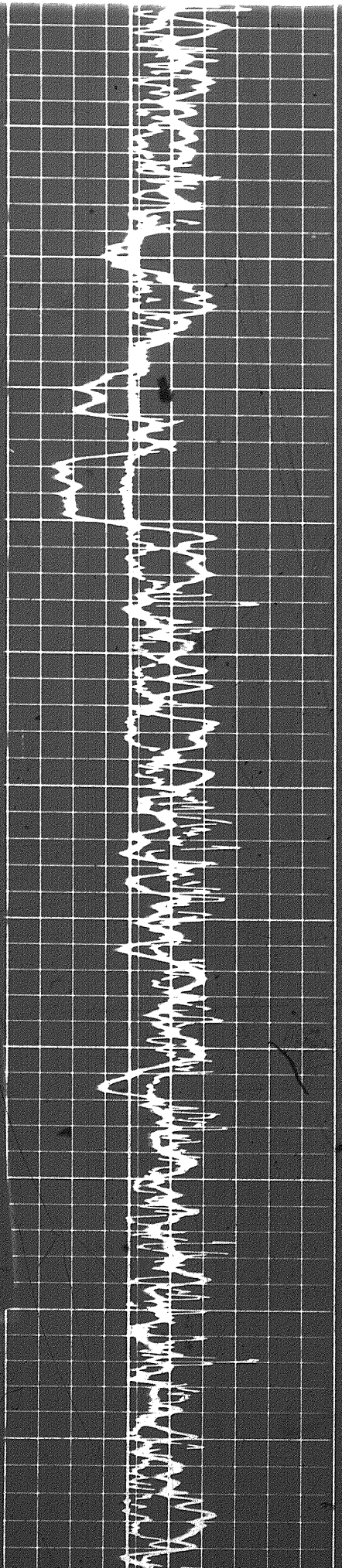
2500

2600

2700

2800

2900



30

TC 1
TC 2

3500

3600

3700

3800

3900

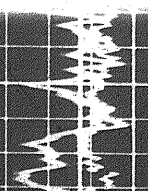
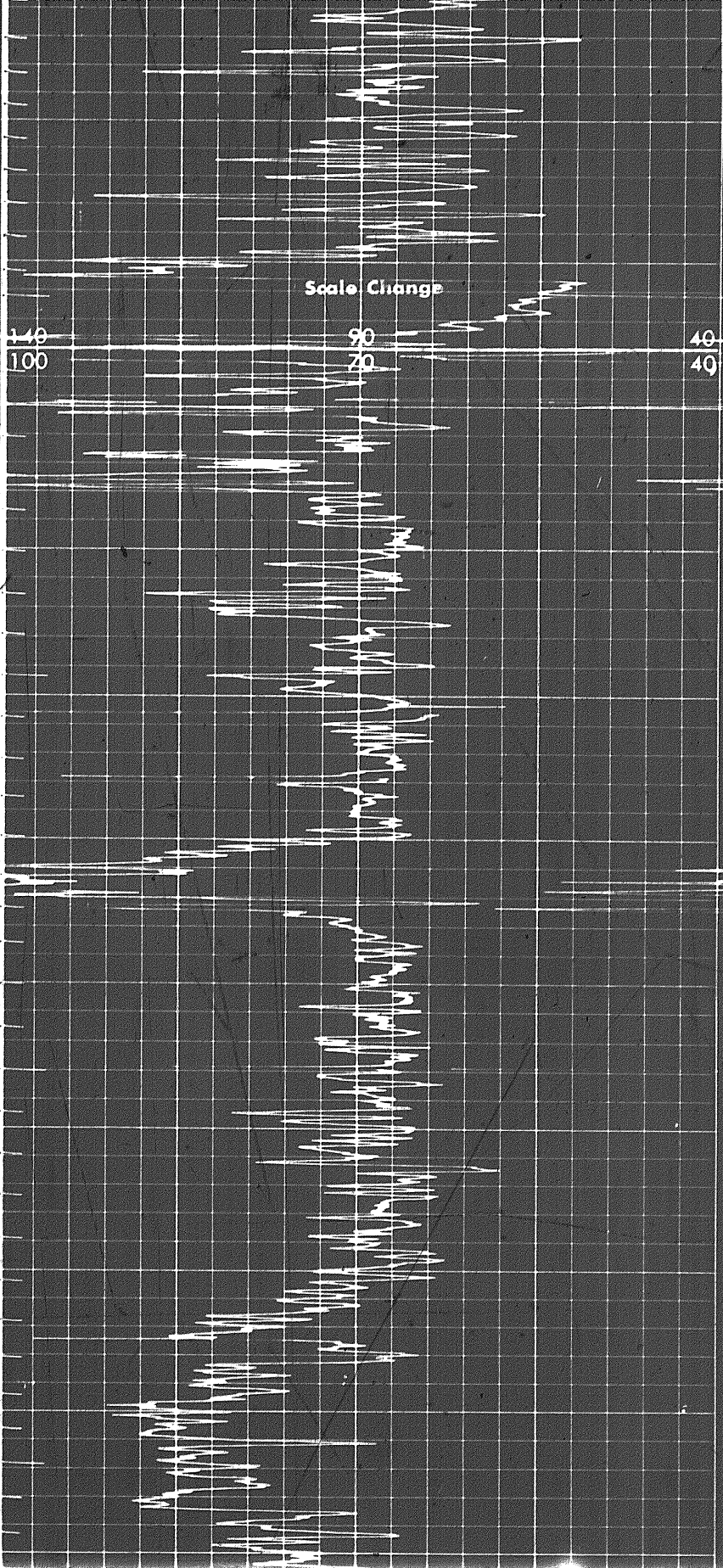
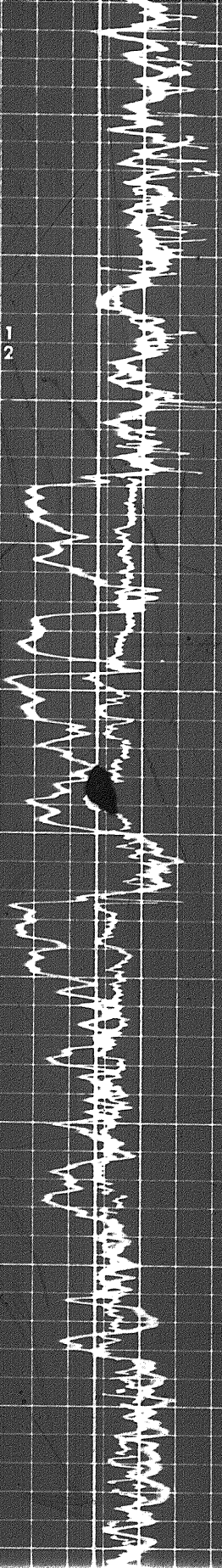
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Scale Change

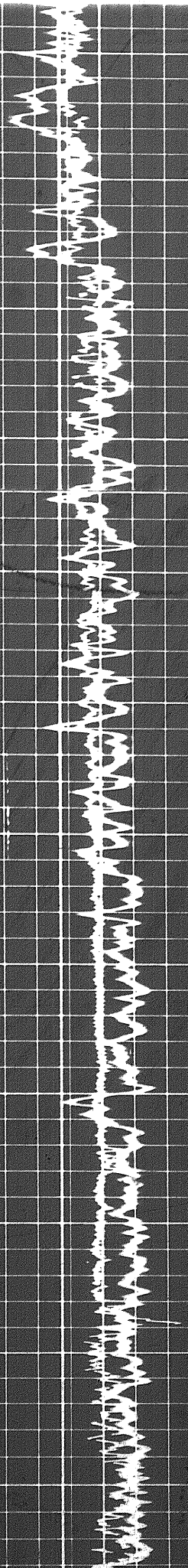
140
100

90
20

40
40



4 of



3900

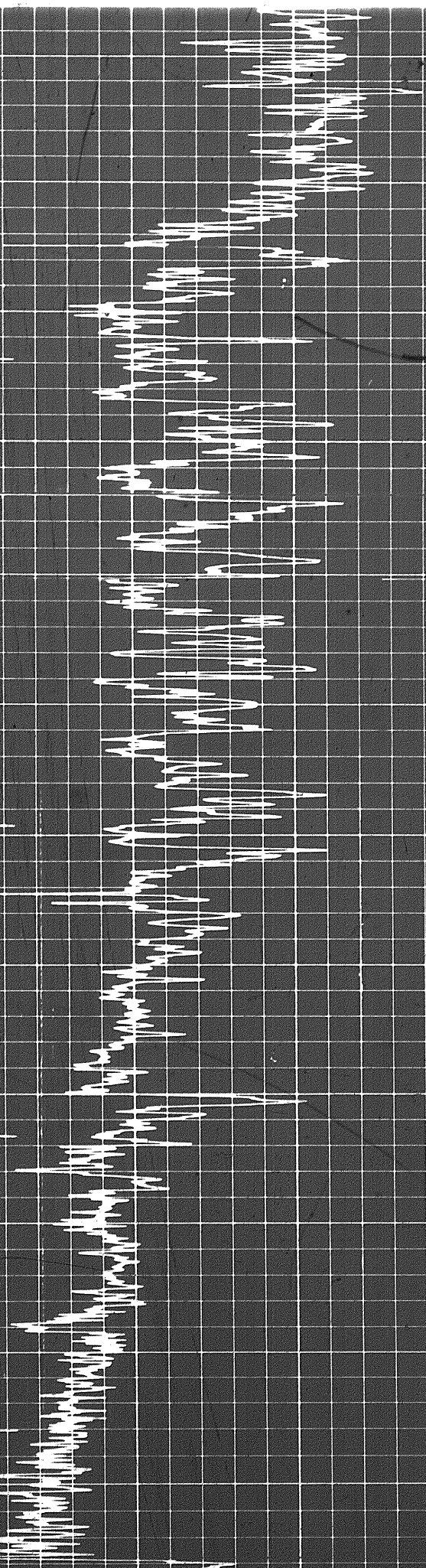
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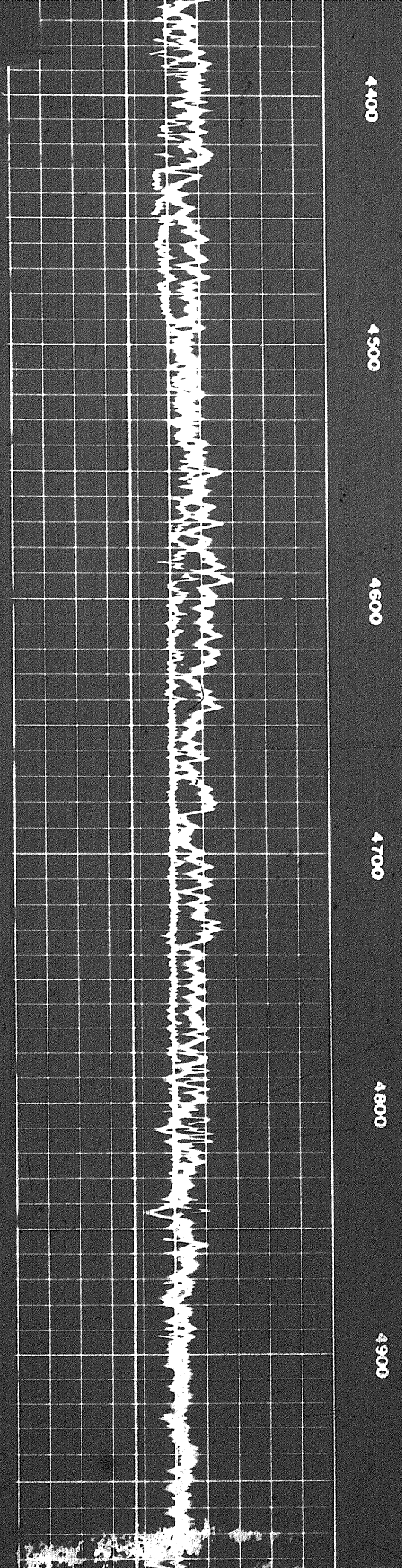
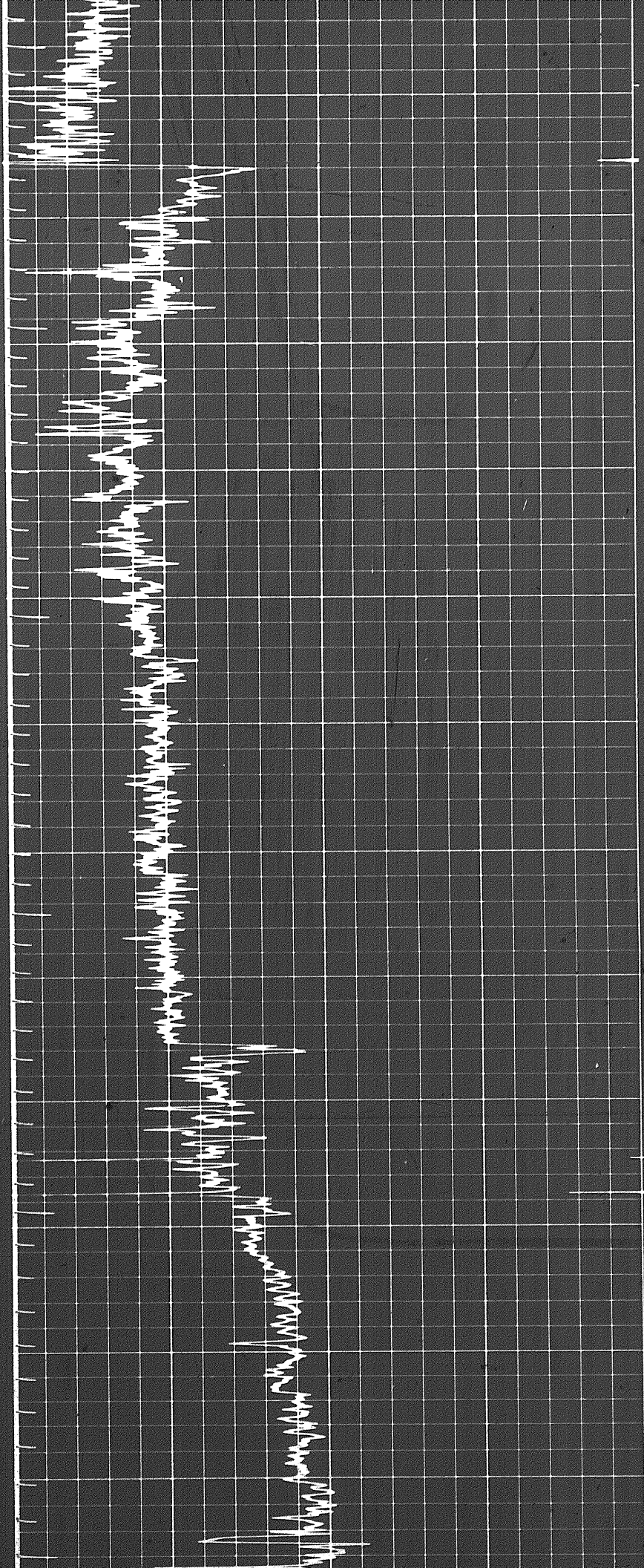
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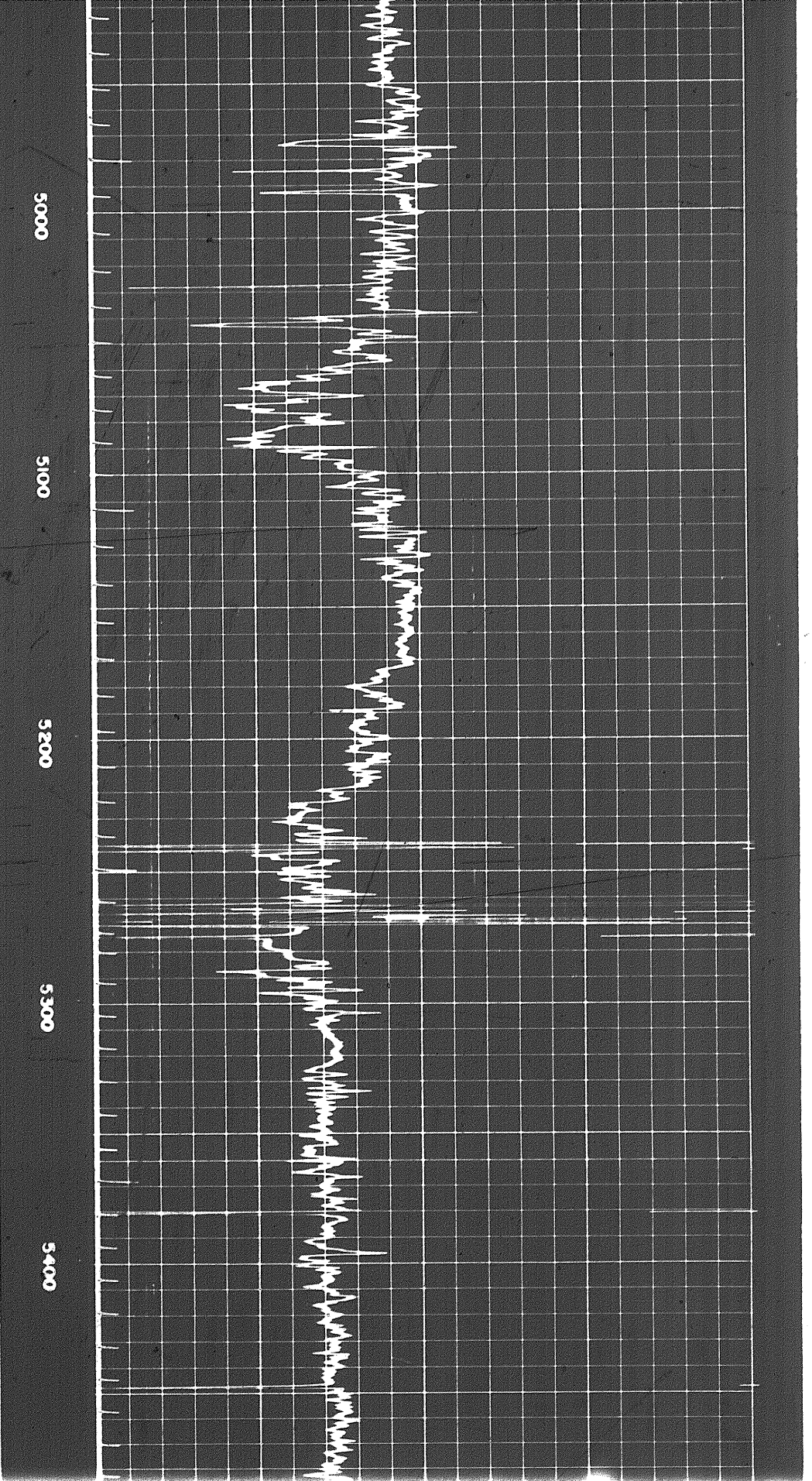
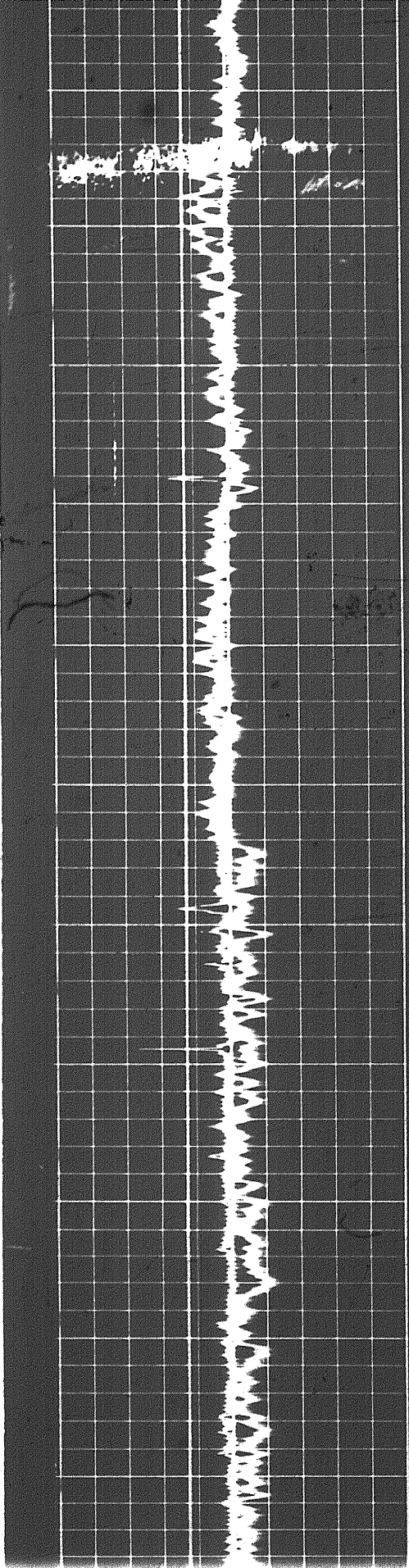
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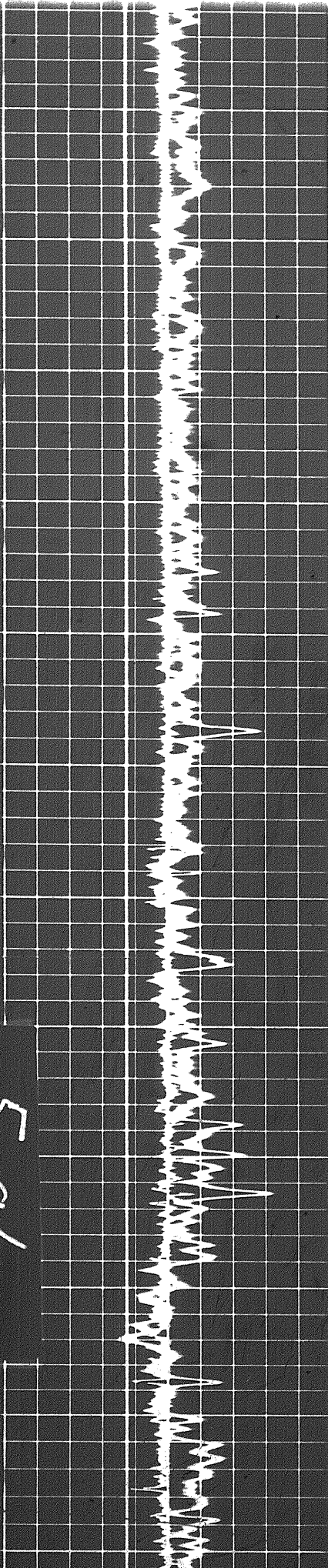
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5 of



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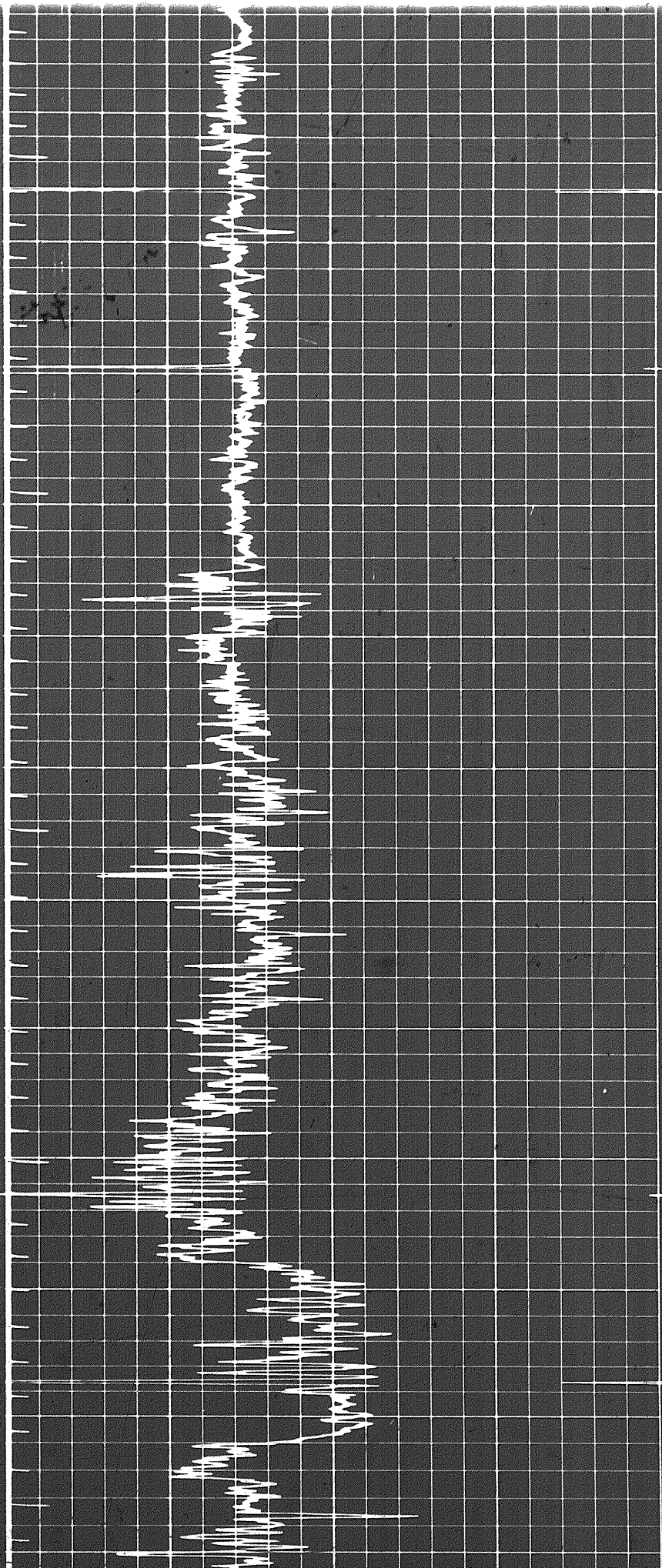
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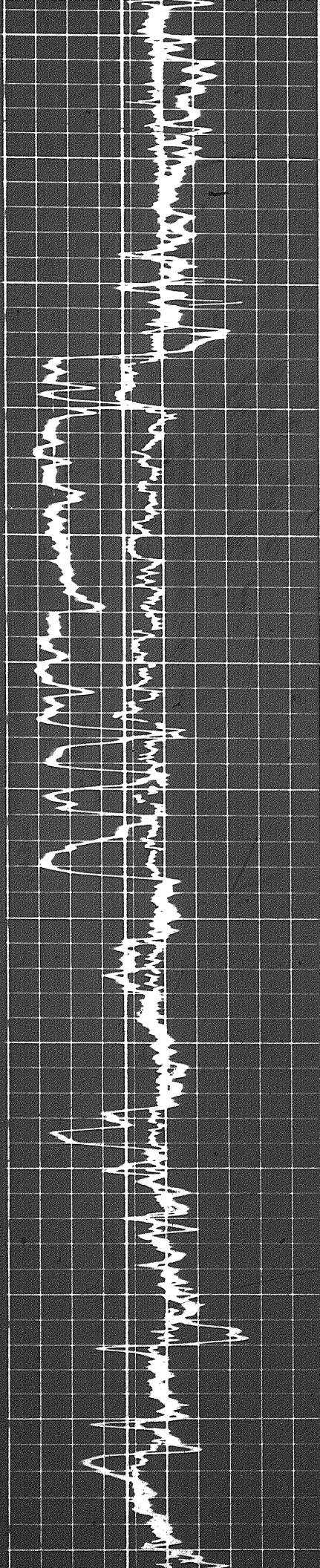
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5700

5800

5900





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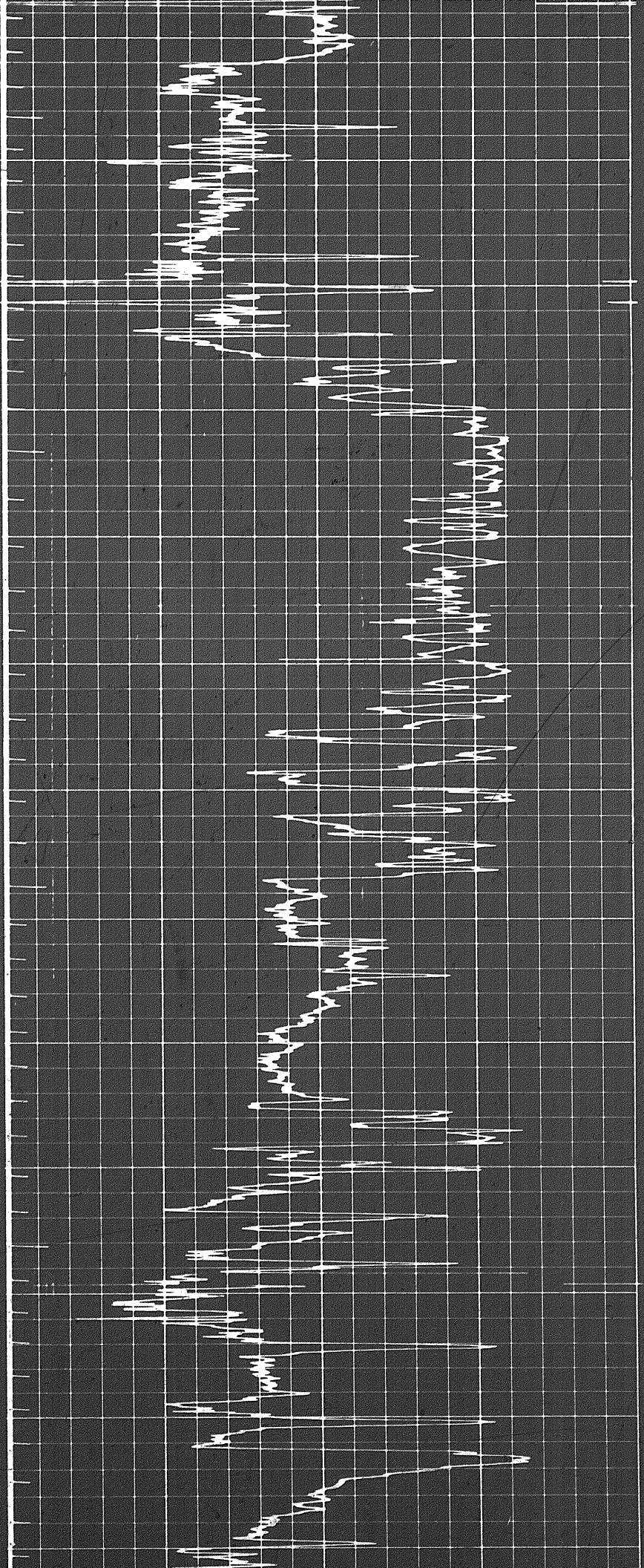
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6100

6200

6300

6400



6400

6500

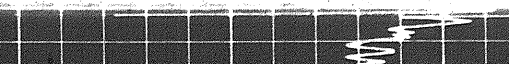
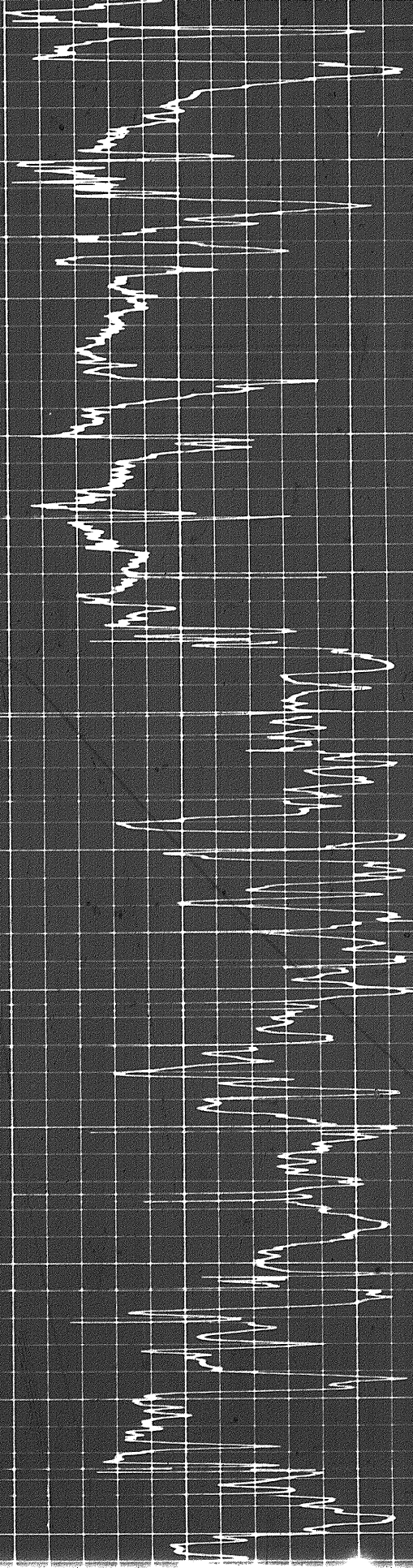
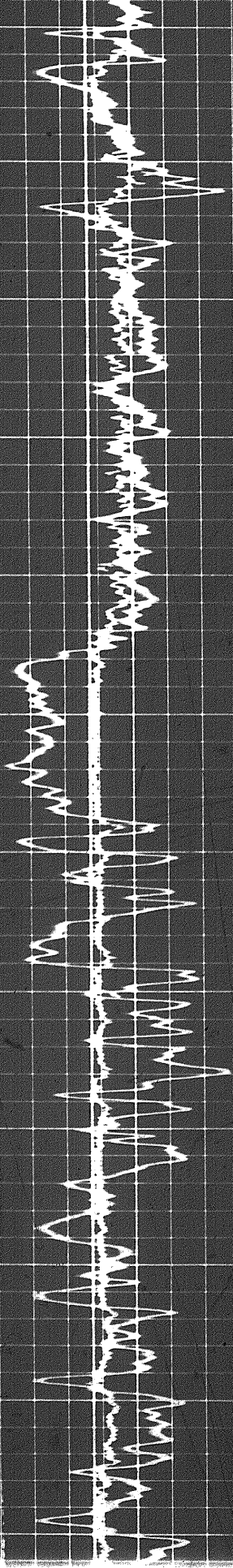
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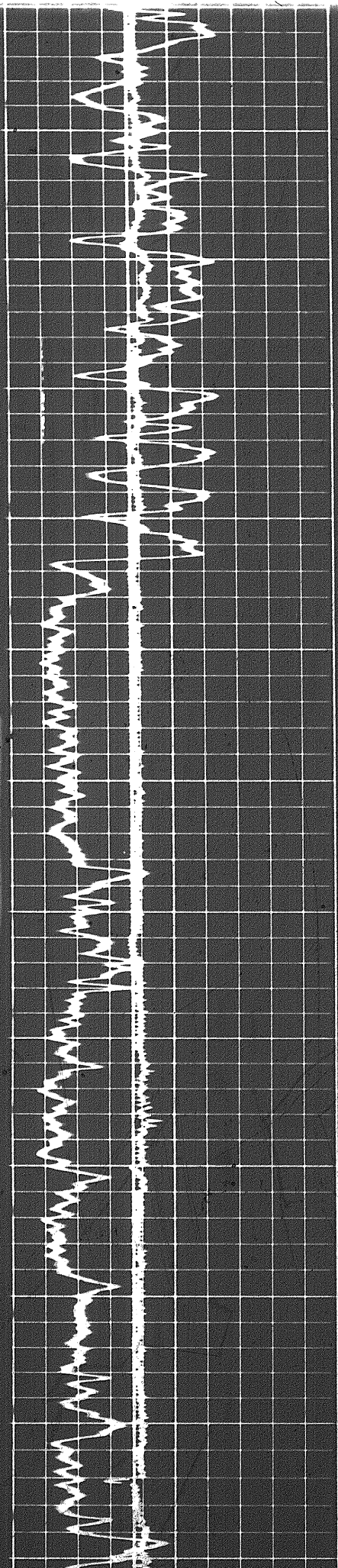
6800

6900

00



6 of



6900

6900

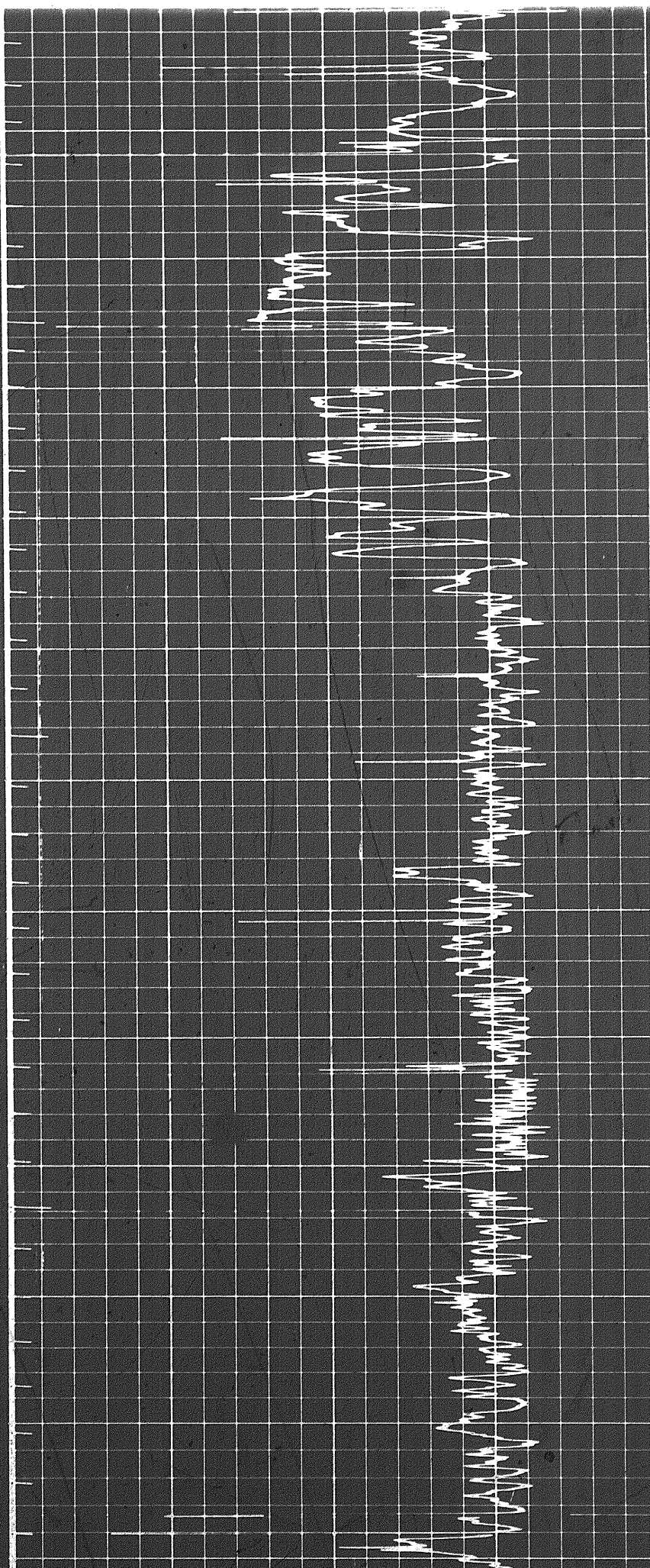
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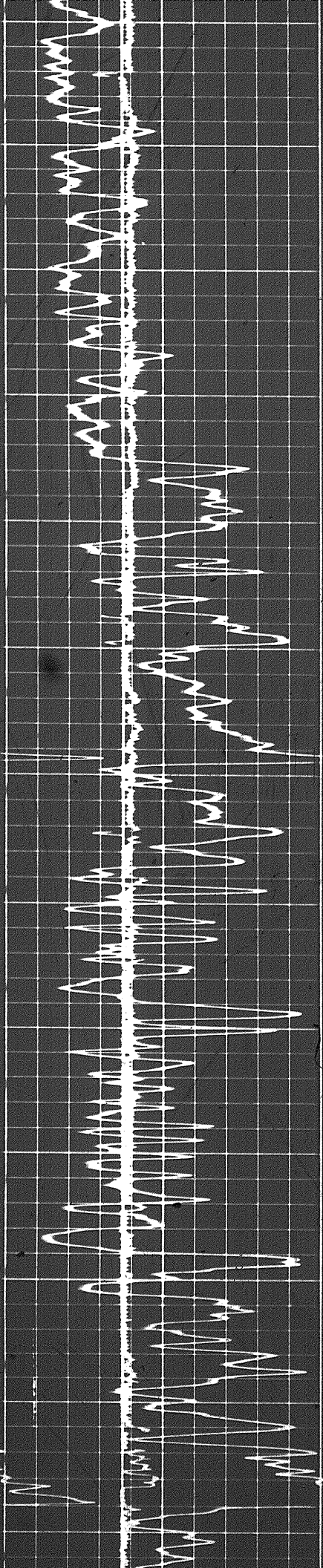
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7300

7400





7400

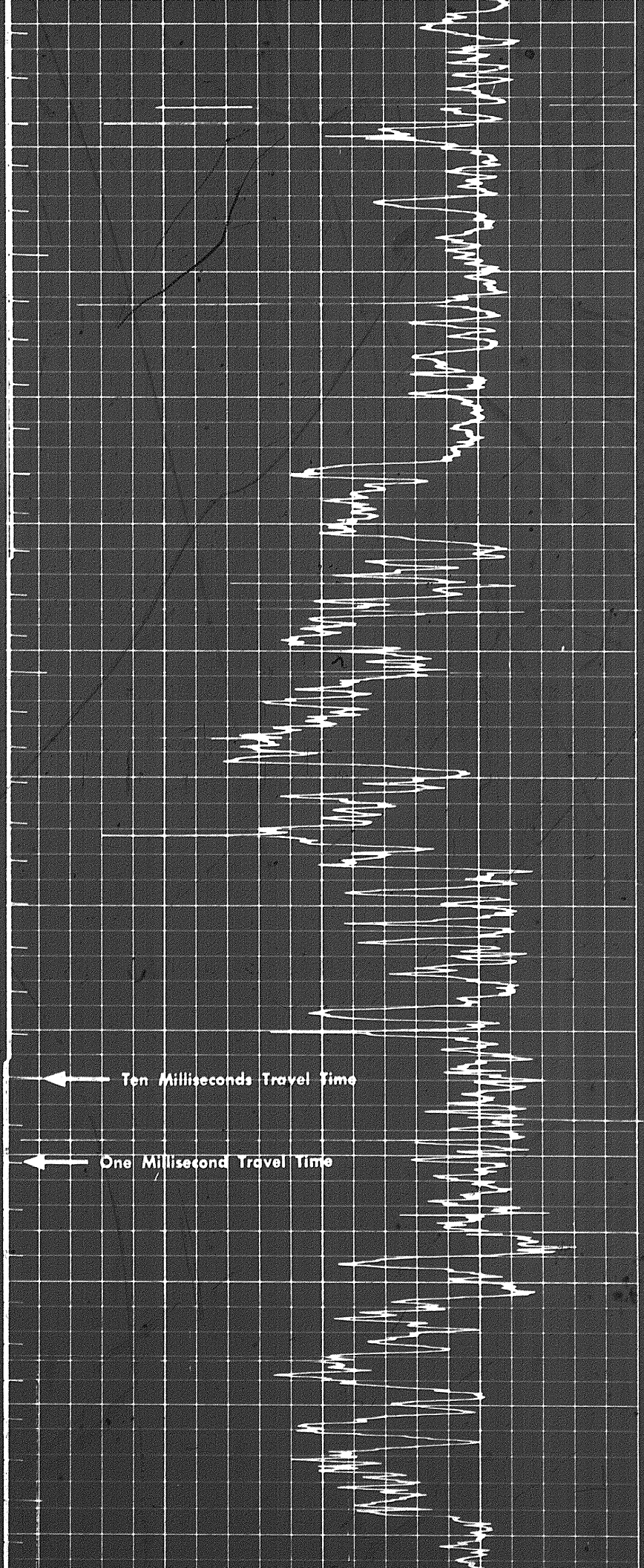
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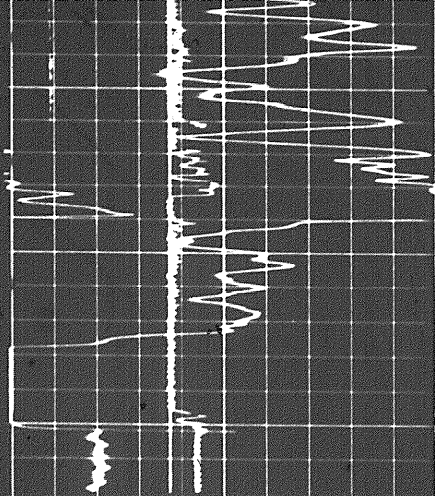
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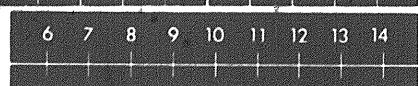
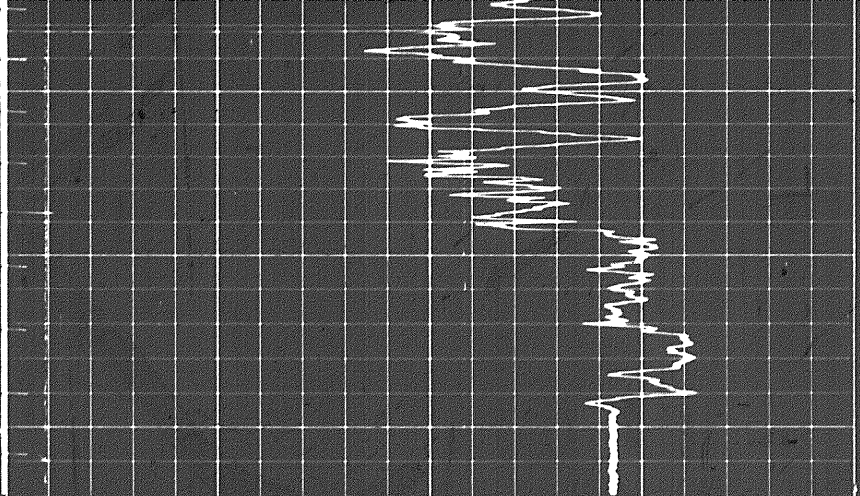


Ten Milliseconds Travel Time

One Millisecond Travel Time



FR 7900
8000



CALIPER
hole diameter in inches

Speed in FPM

Sens.	150	T.C.	2
Zero	0	div. to left	
	0		150
	150		300

160	130	100
100	70	40

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

DETAIL LOG
5' = 100' RUN 1

GAMMA RAY
API UNITS

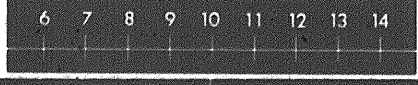
DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

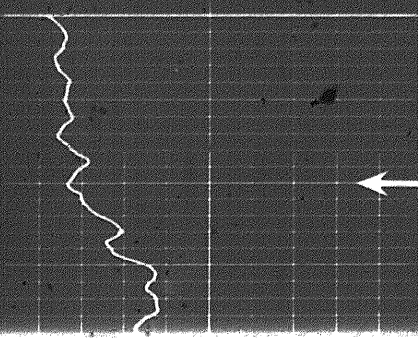
Speed in FPM

Sens.	150	T.C.	2
Zero	0	div. to left	
	0		150
	150		300

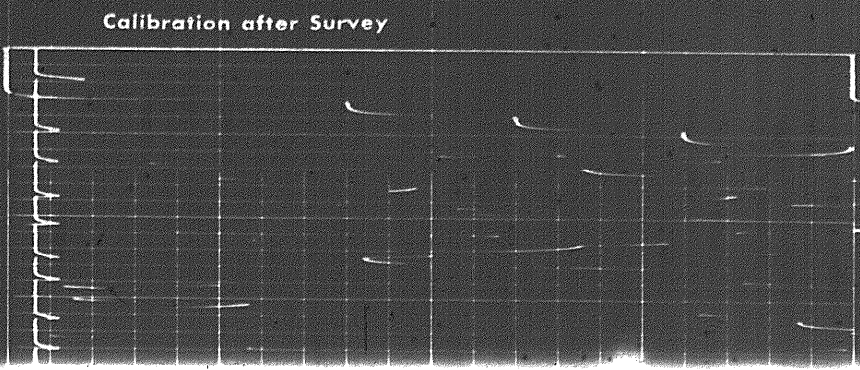
CALIPER
hole diameter in inches



140	90	40
240	190	140

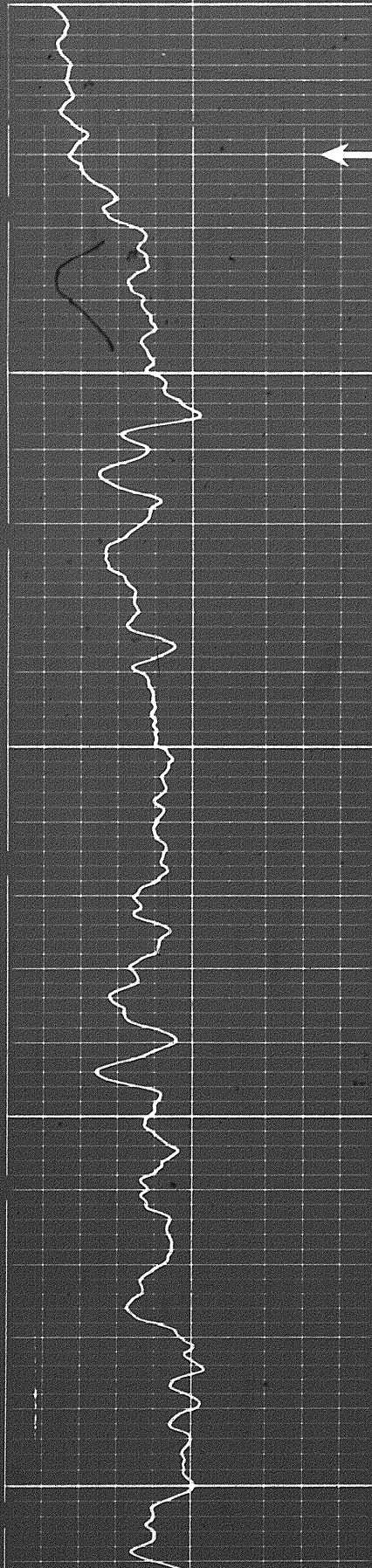


Casing



CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

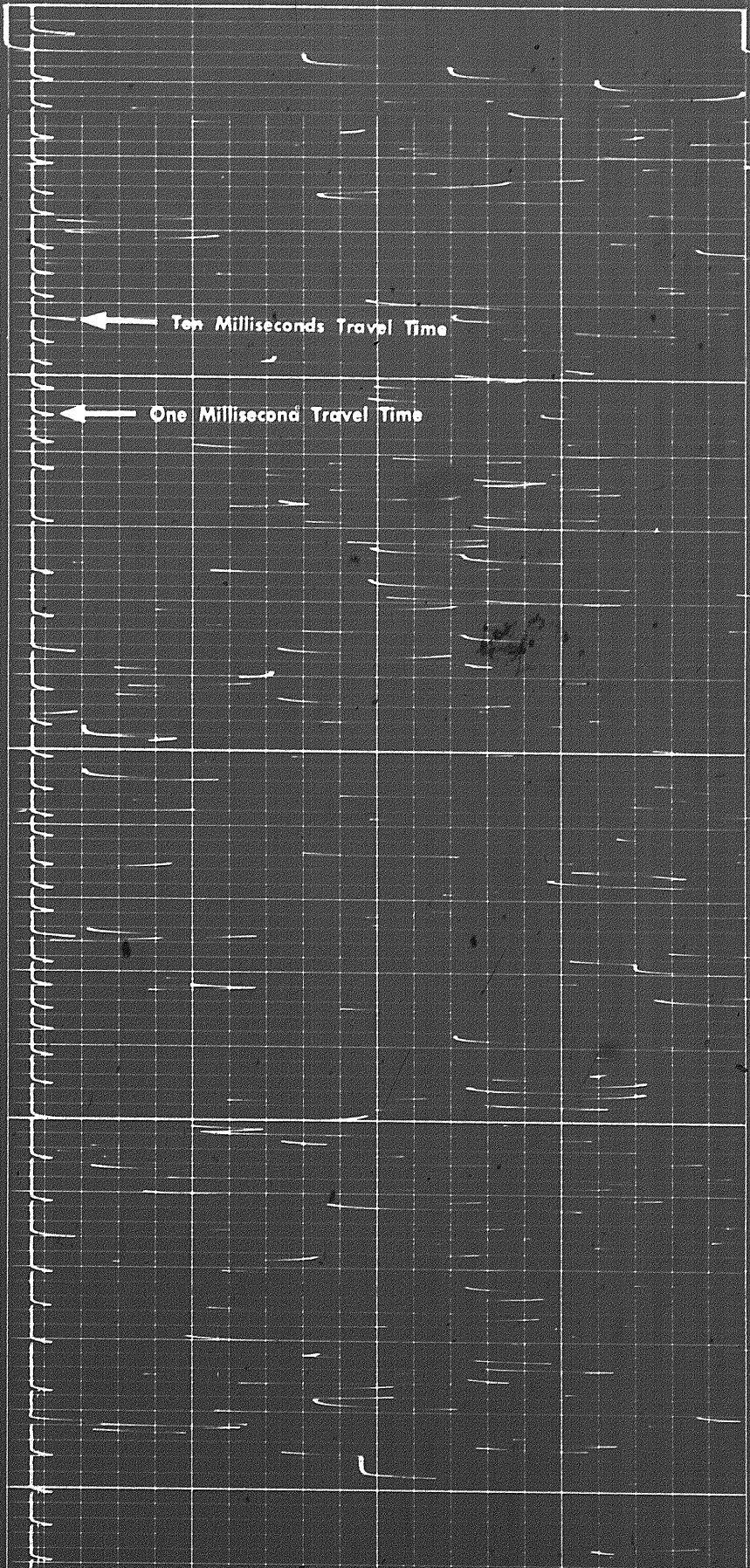


Casing

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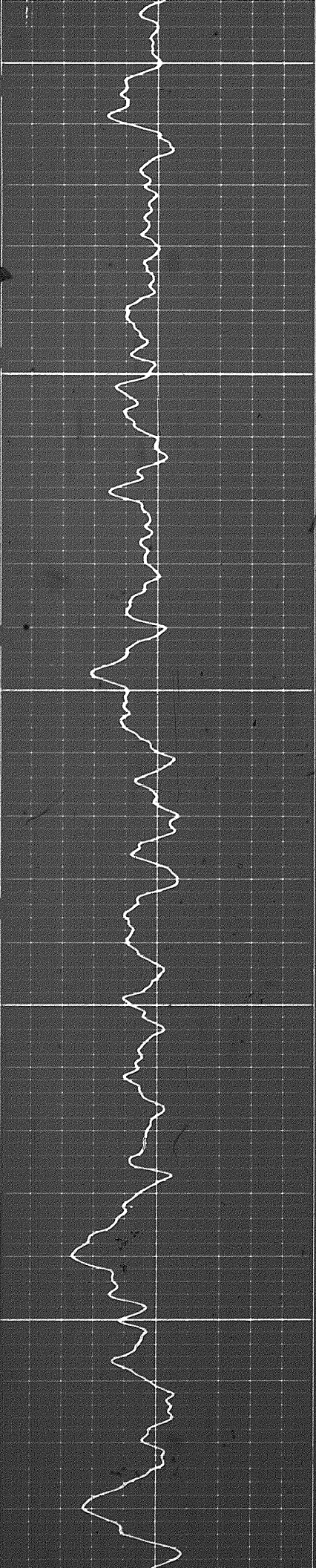
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Calibration after Survey



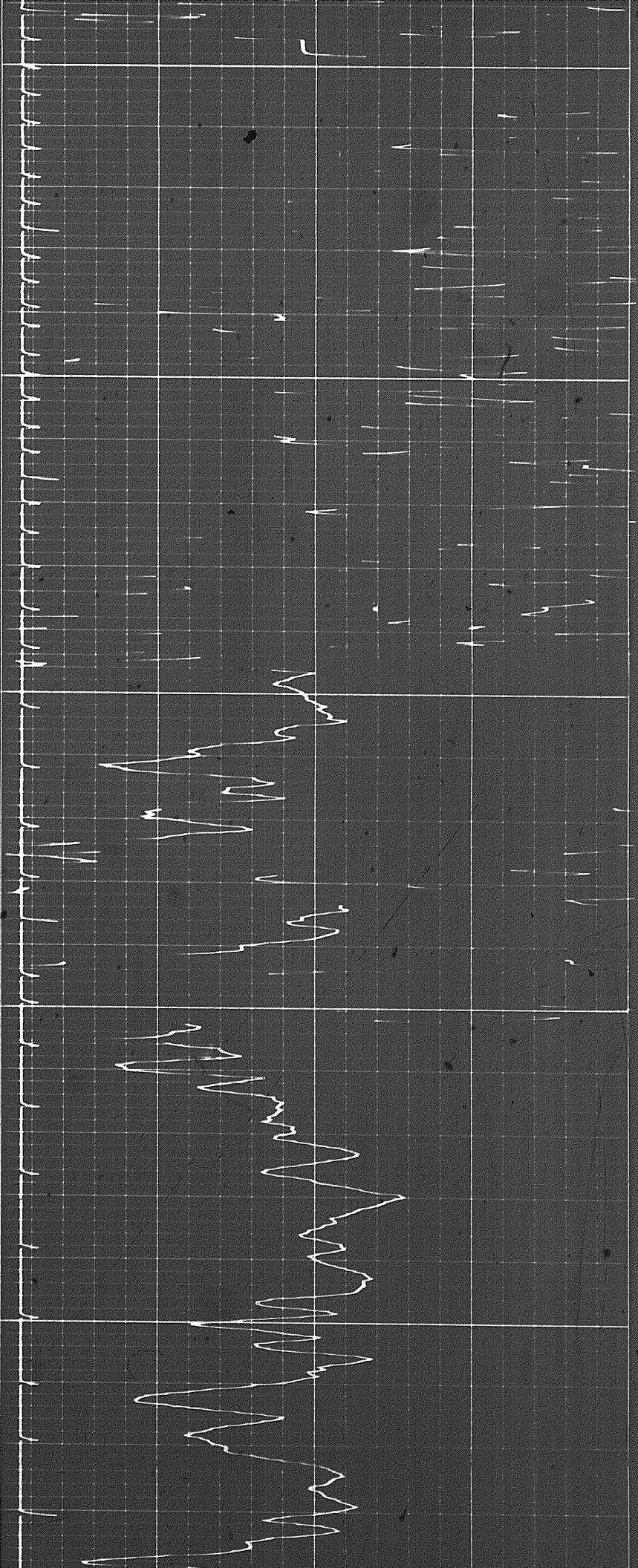
Ten Milliseconds Travel Time

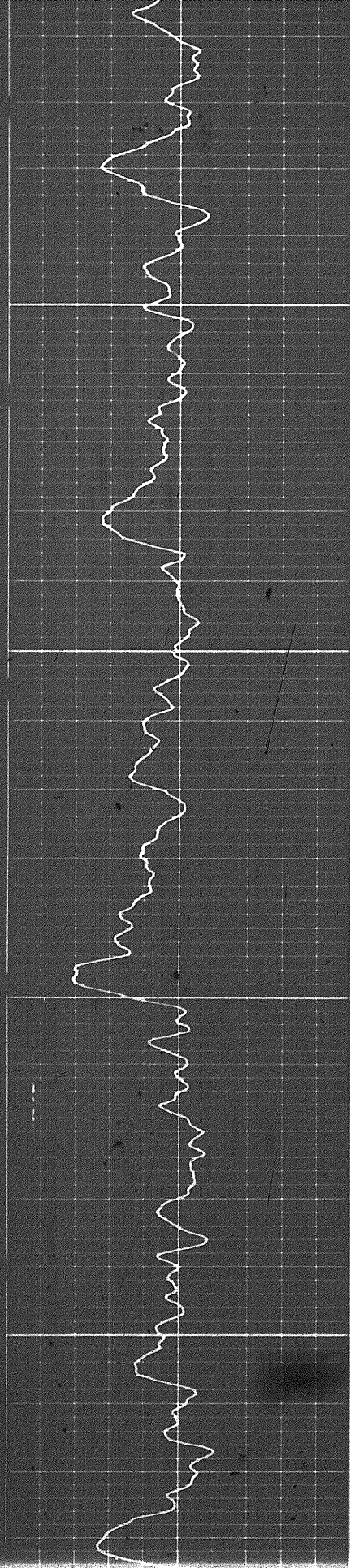
One Millisecond Travel Time



0300

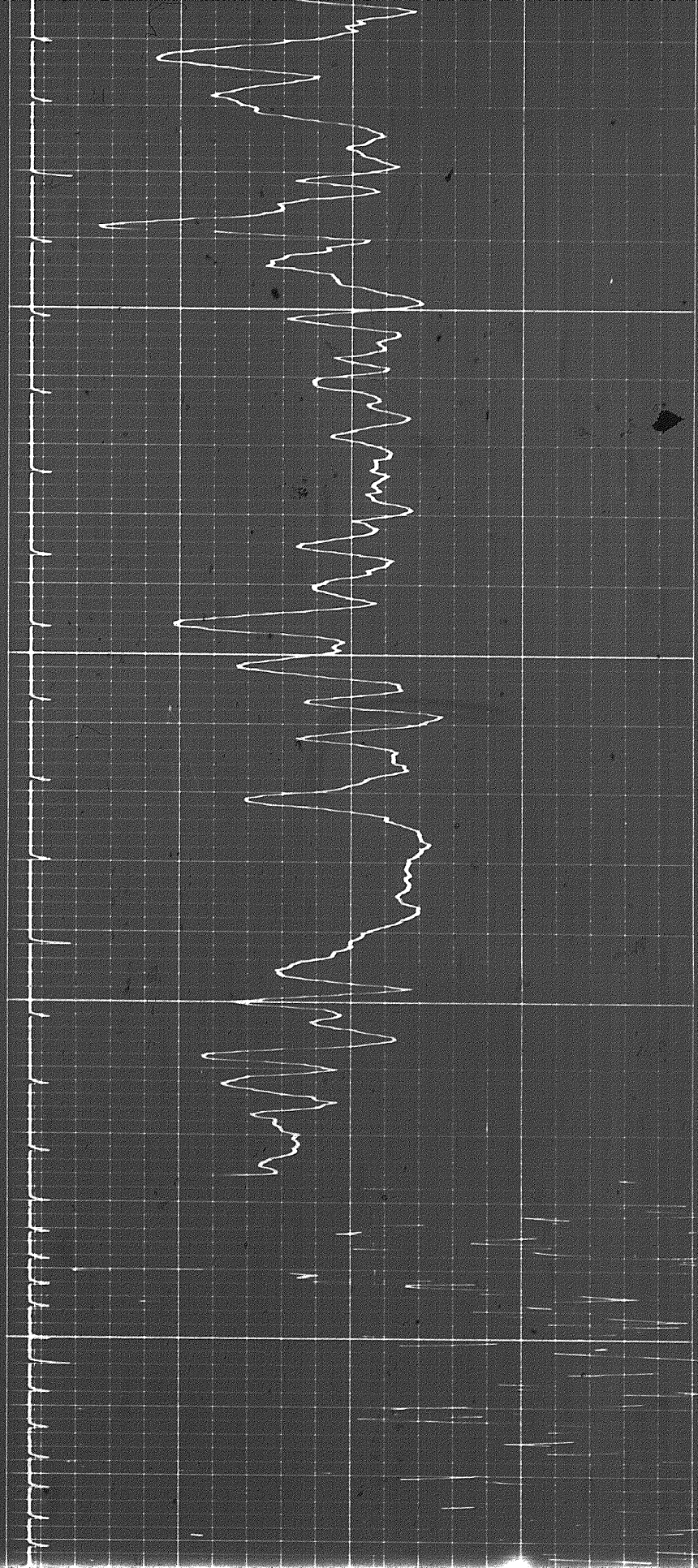
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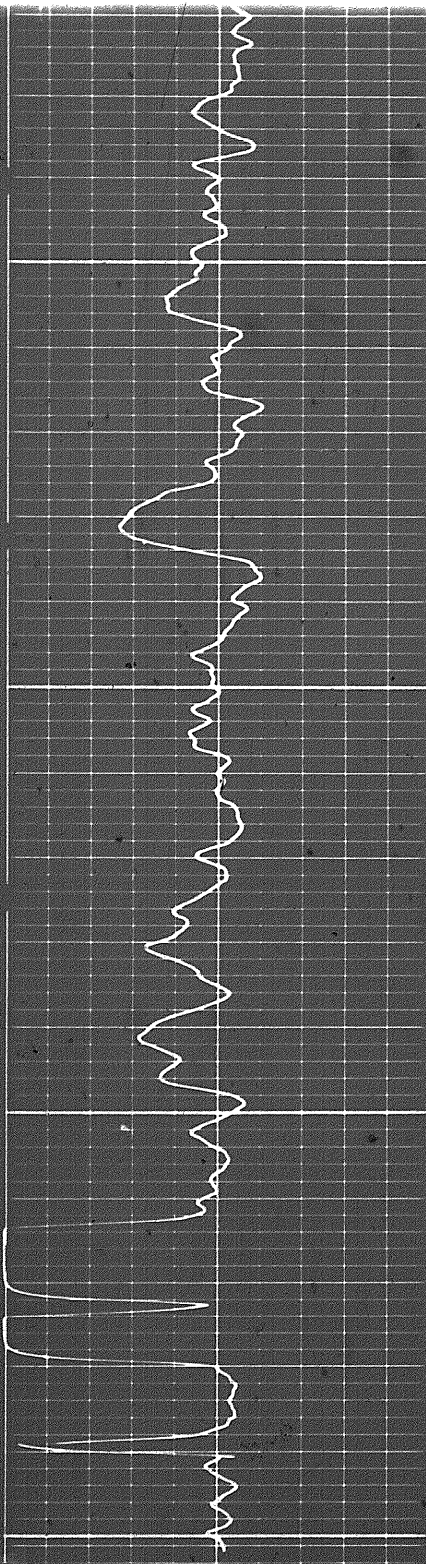


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0600



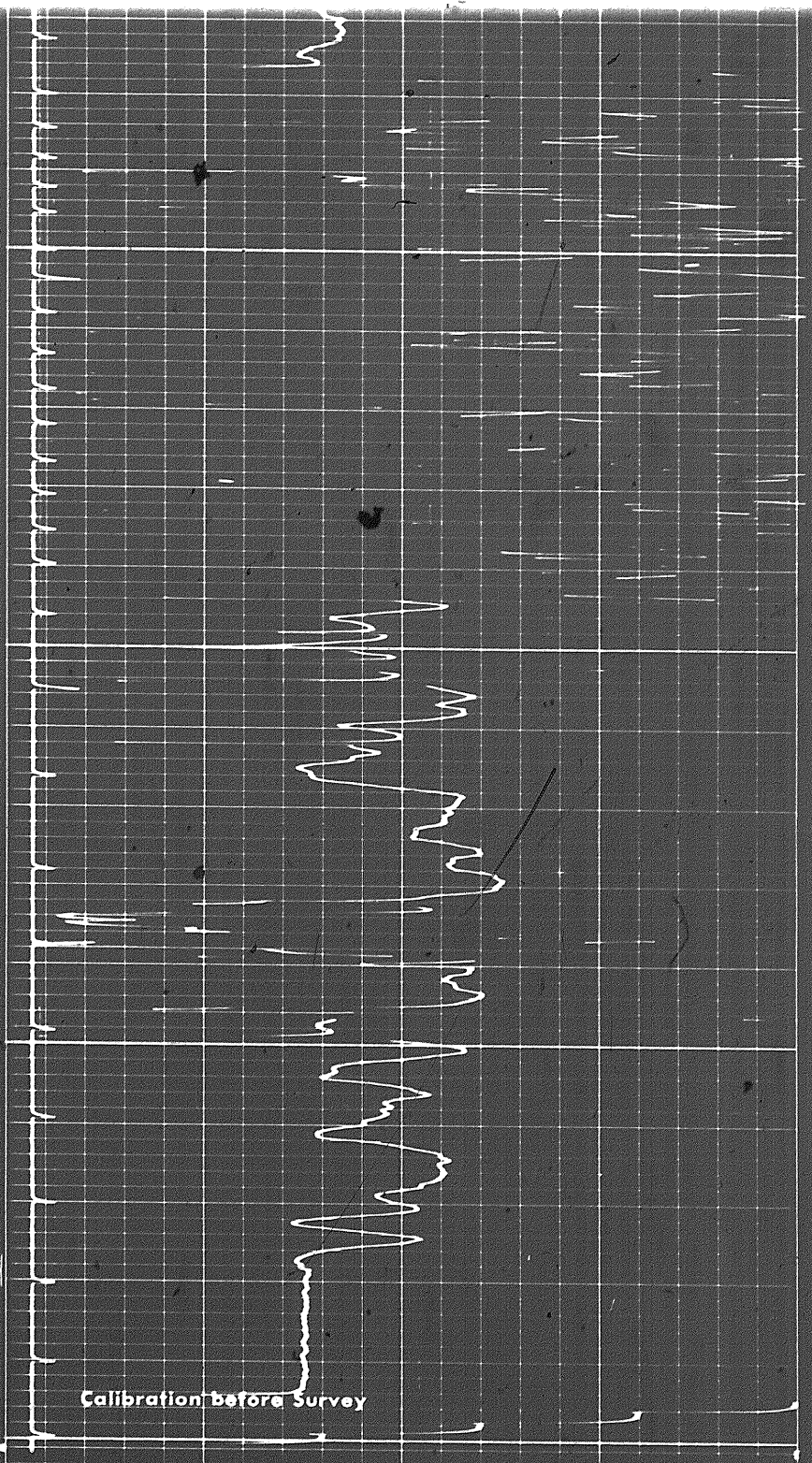
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0700

FR

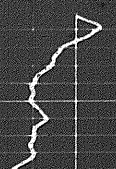
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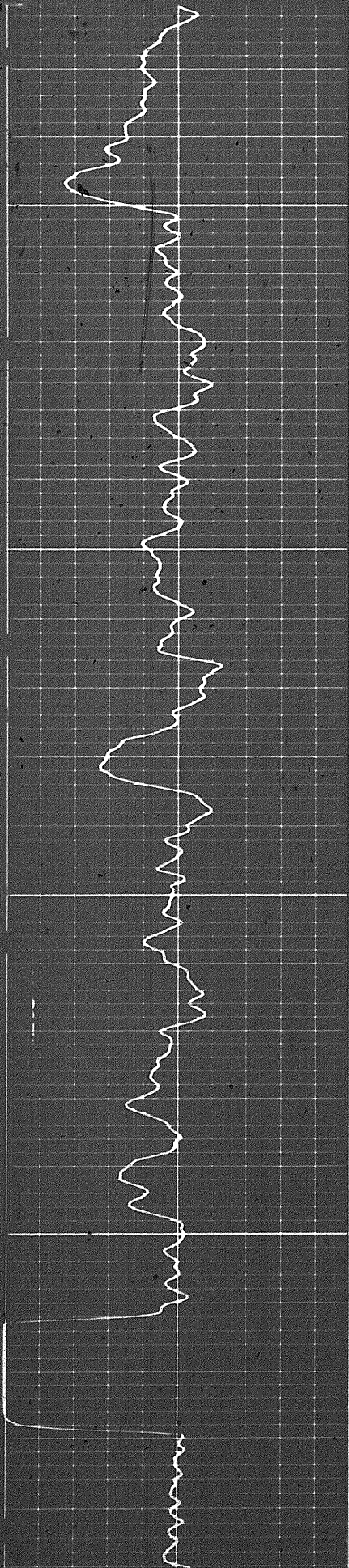
Calibration before Survey

REPEAT SECTION

Calibration after Survey



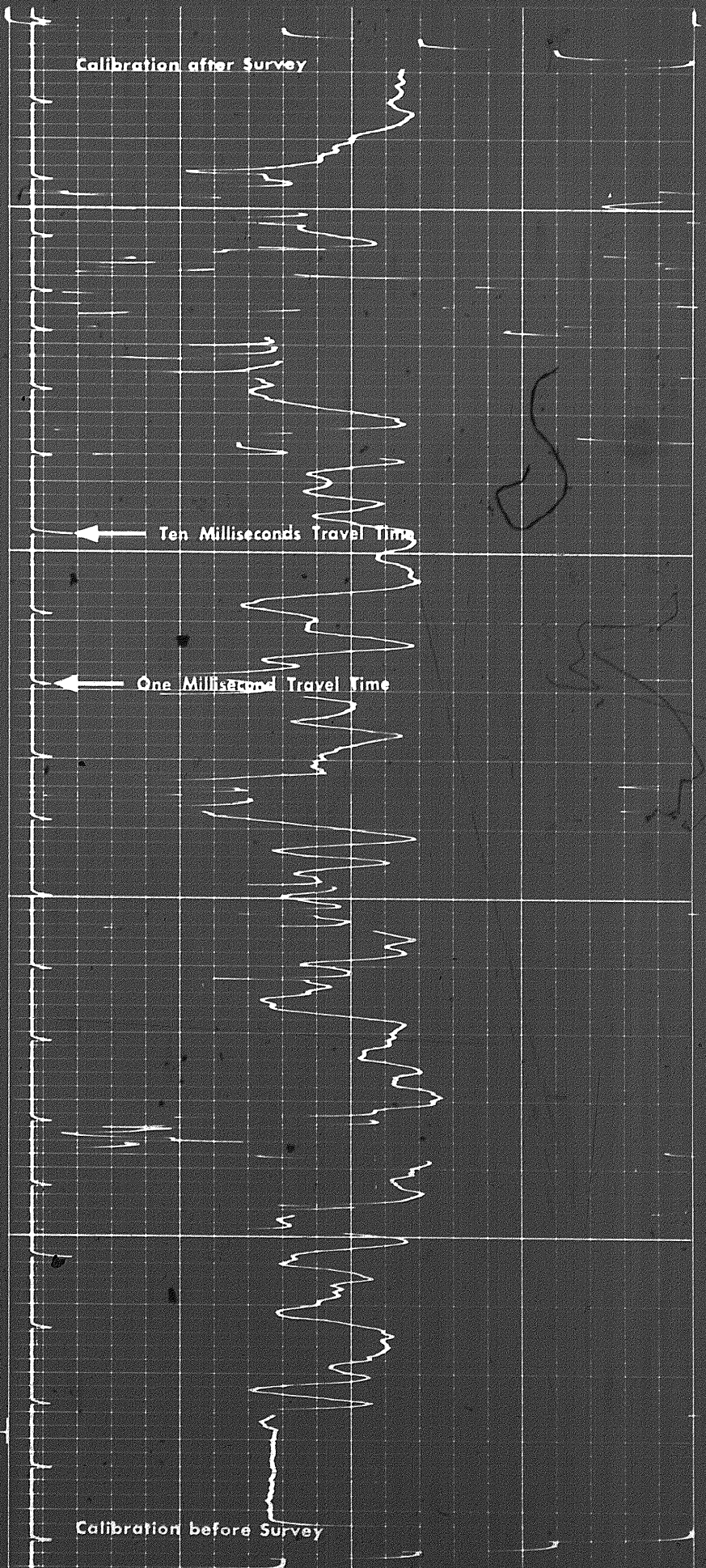
REPEAT SECTION



0090

0070

FR



Calibration after Survey

Ten Milliseconds Travel Time

One Millisecond Travel Time

Calibration before Survey

FR

Calibration before Survey

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

Speed in FPM

Sens.	150	T.C.	2
Zero	0	div. to left	
			150
			300

240	190	140
140	90	40

GAMMA RAY
API UNITS

DEPTH

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

DETAIL LOG
5" = 100'

RUN 2

GAMMA RAY
API UNITS

DEPTH

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

Speed in FPM

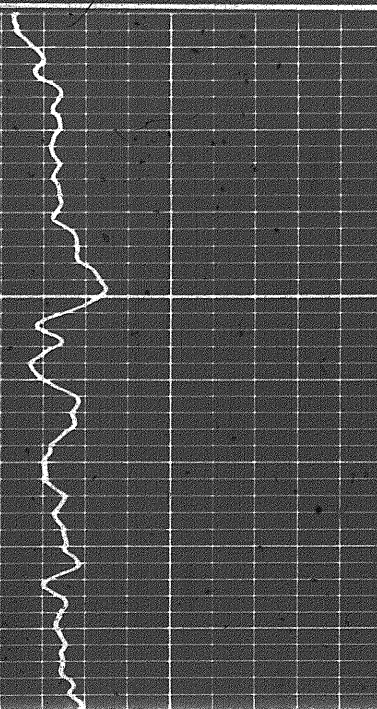
Sens.	150	T.C.	1
Zero	0	div. to left	
			150
			300

140	90	40
240	190	140

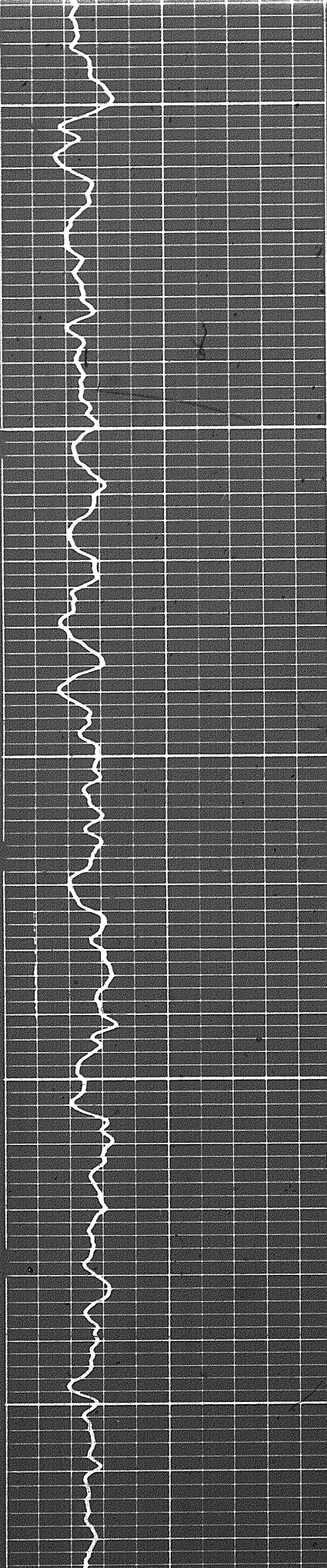
CALIPER
hole diameter in inches

6 7 8 9 10 11 12 13 14

0100



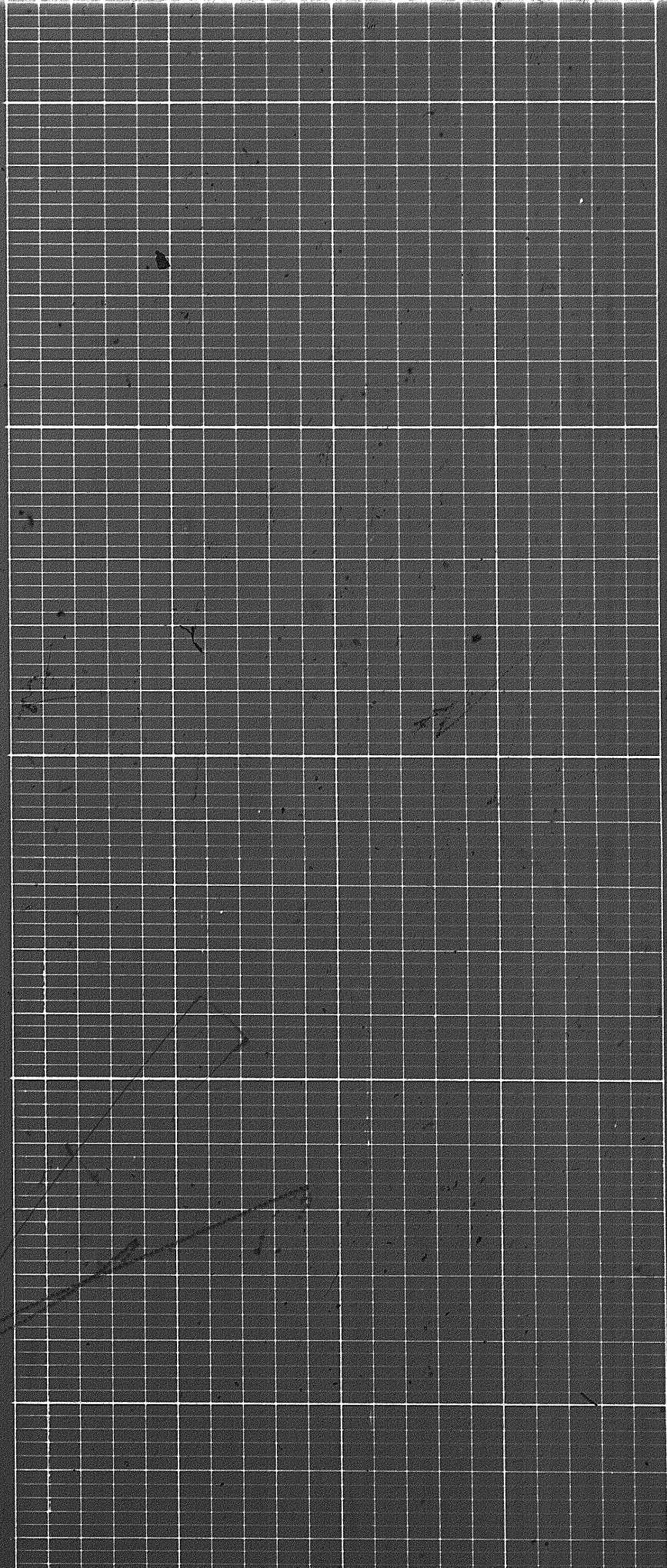
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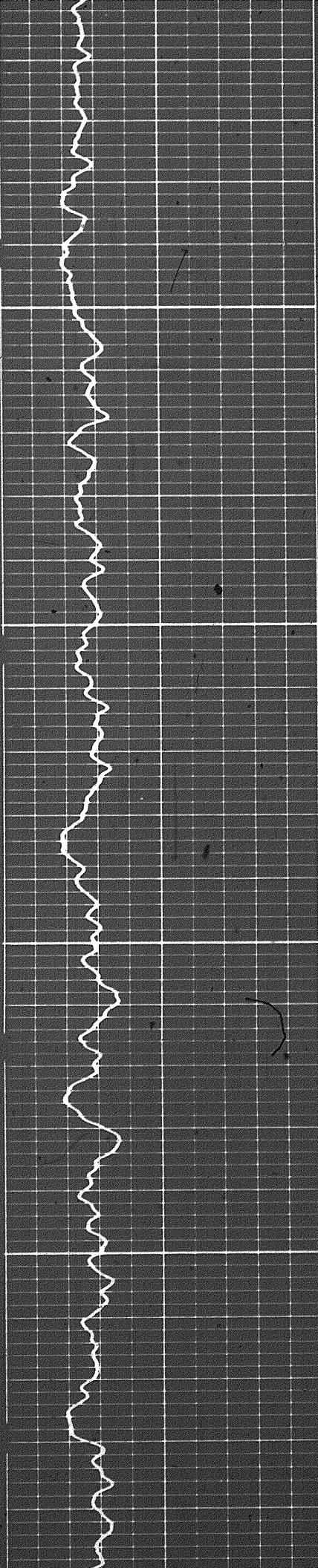


0010

0200

0300

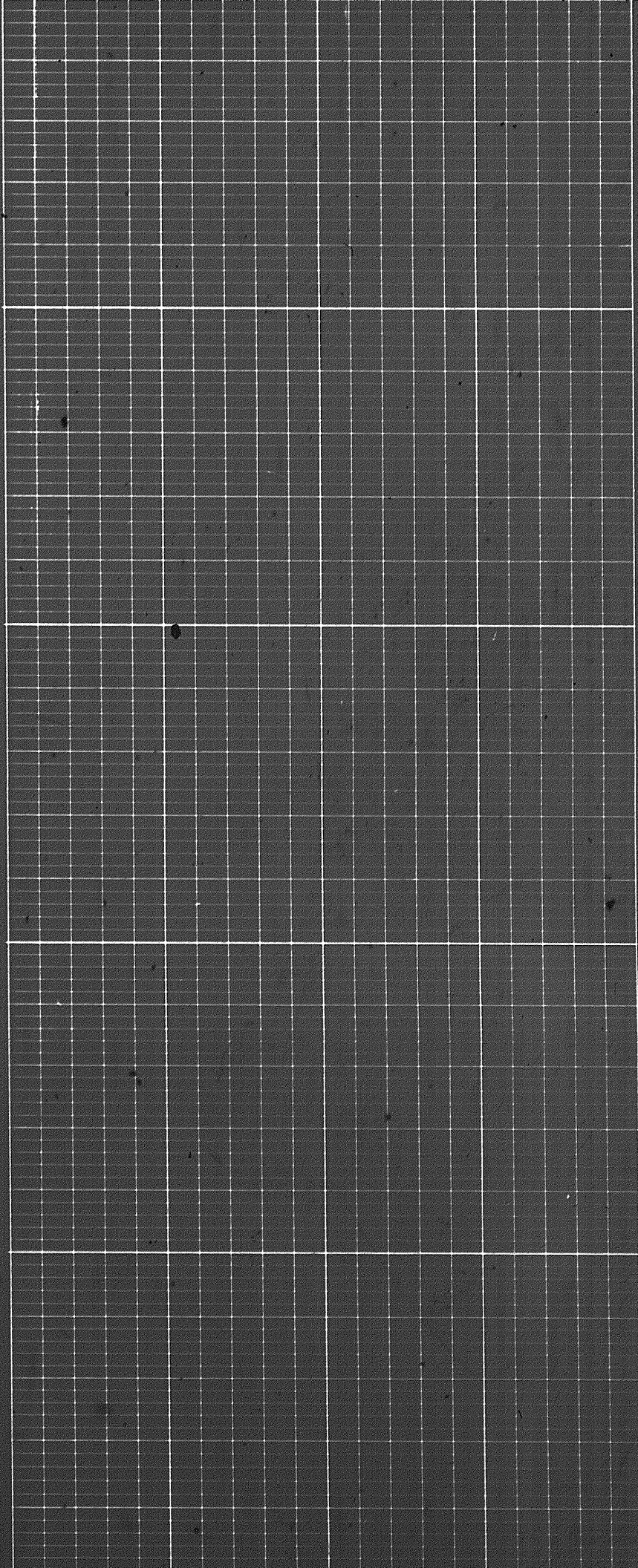


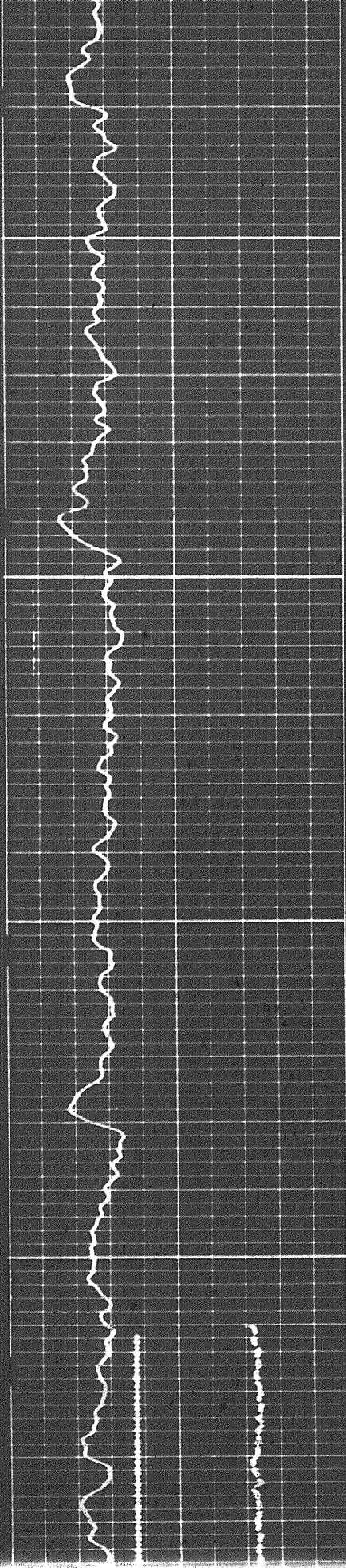


00

0400

0500



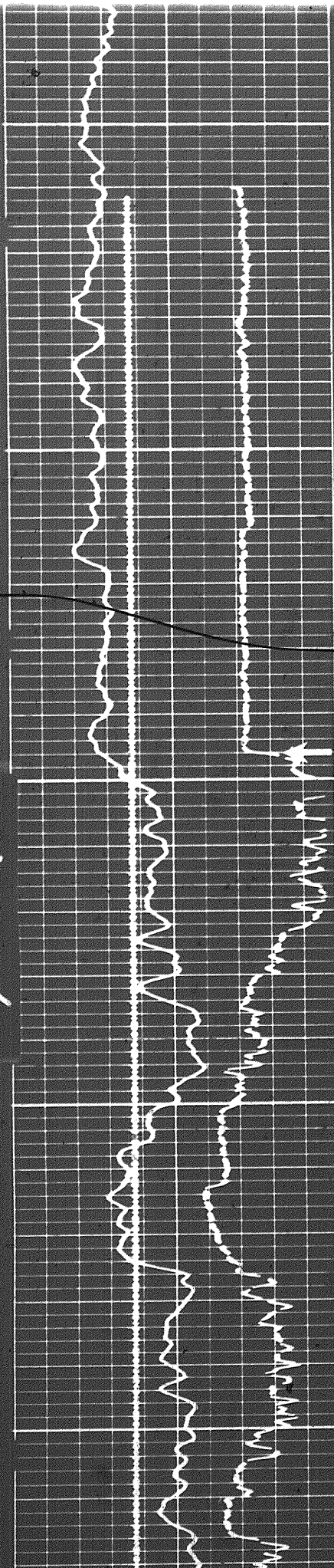


0600

0700

Calibration after Survey

1001

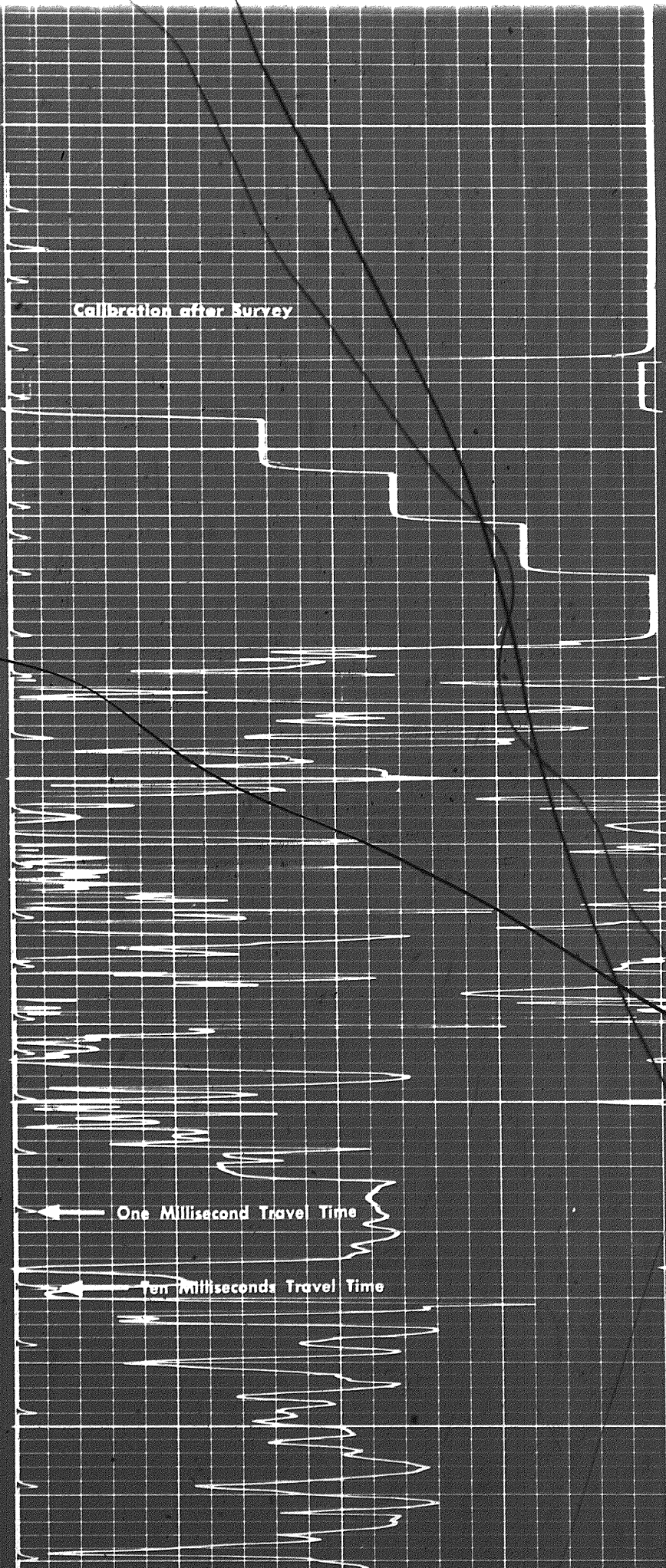


0700

Casing

0300

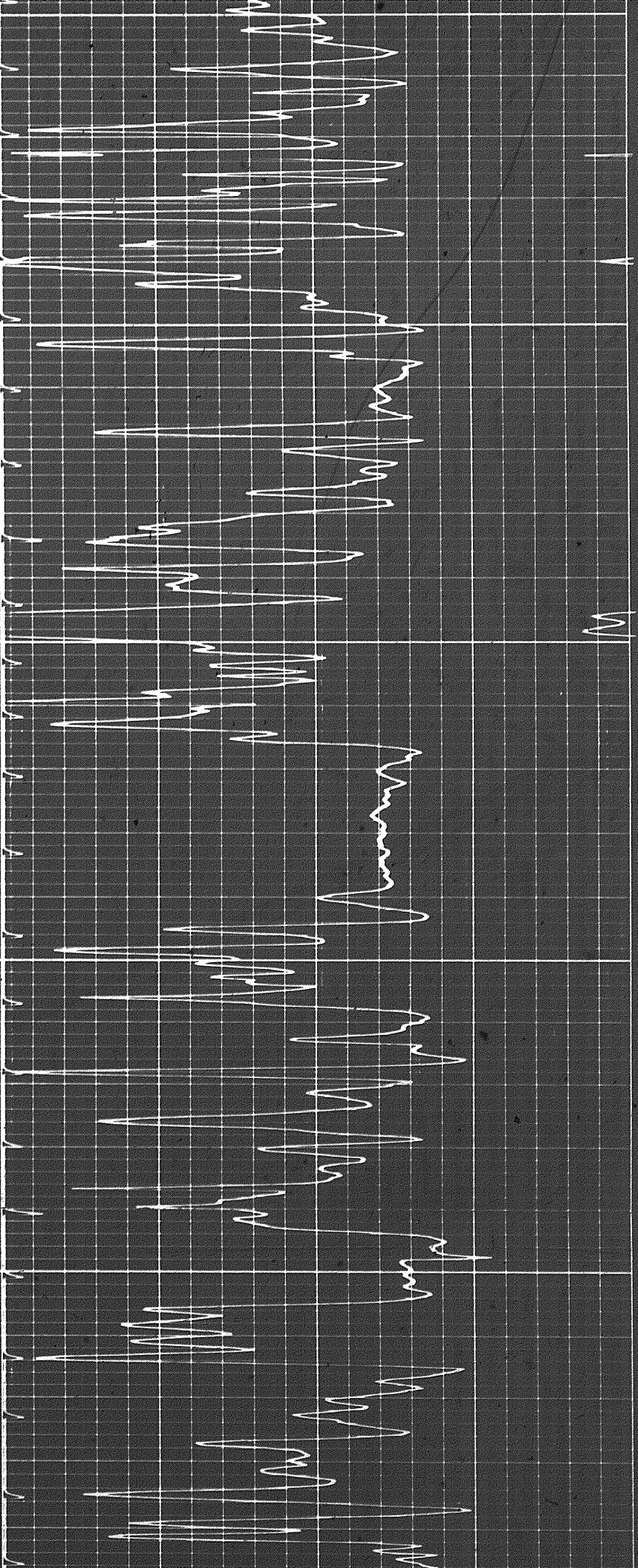
0050



Calibration after Survey

One Millisecond Travel Time

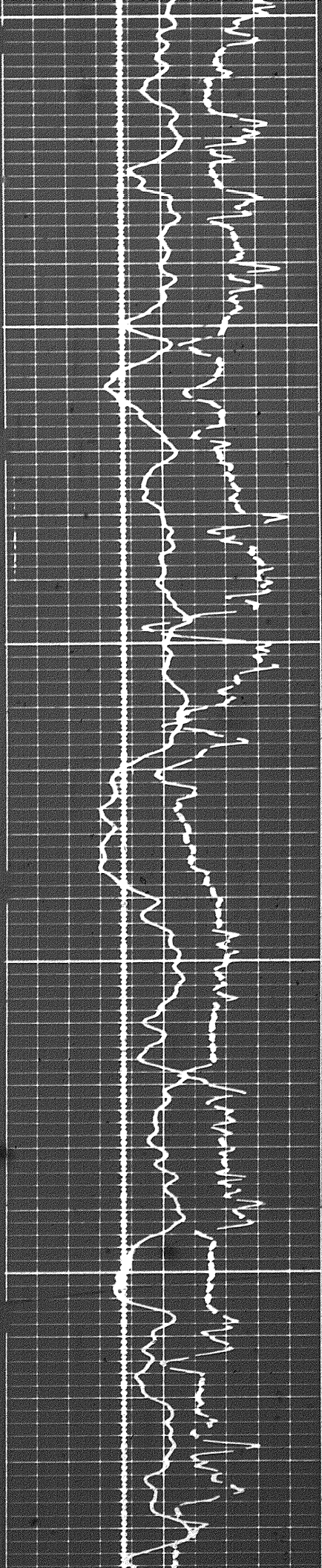
Ten Milliseconds Travel Time

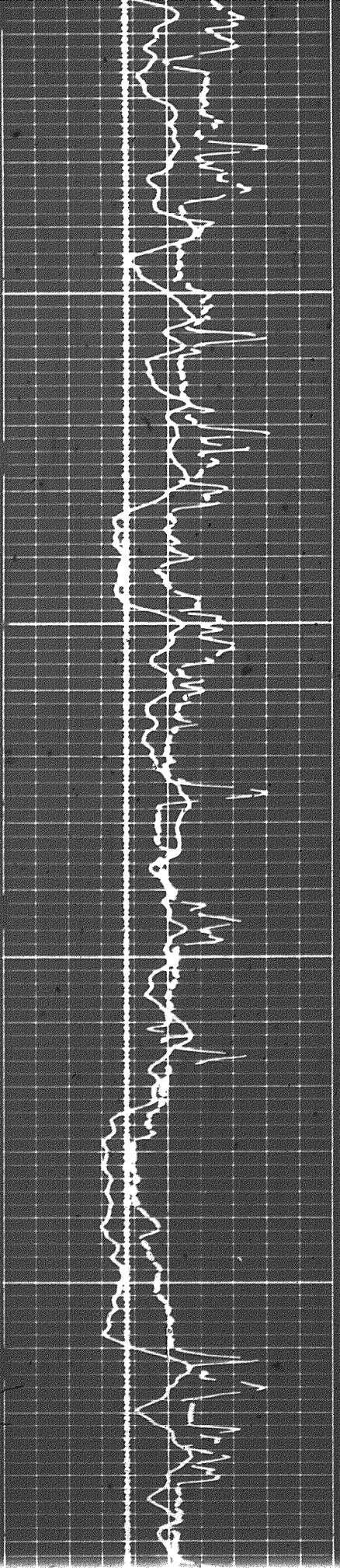


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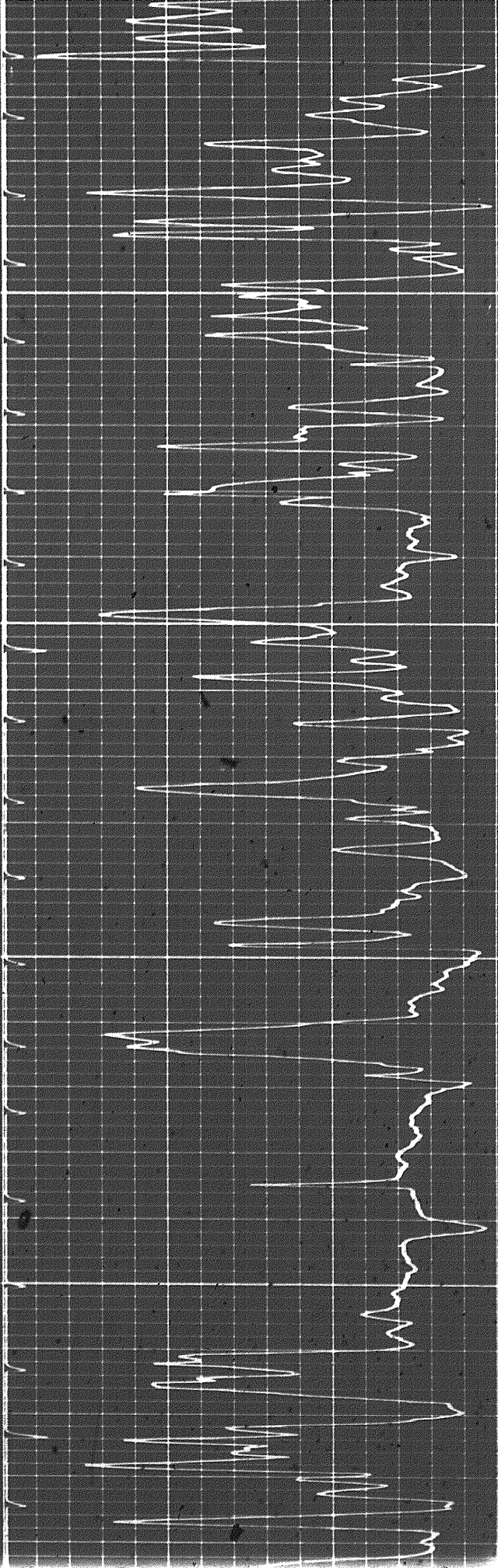
1000

1100



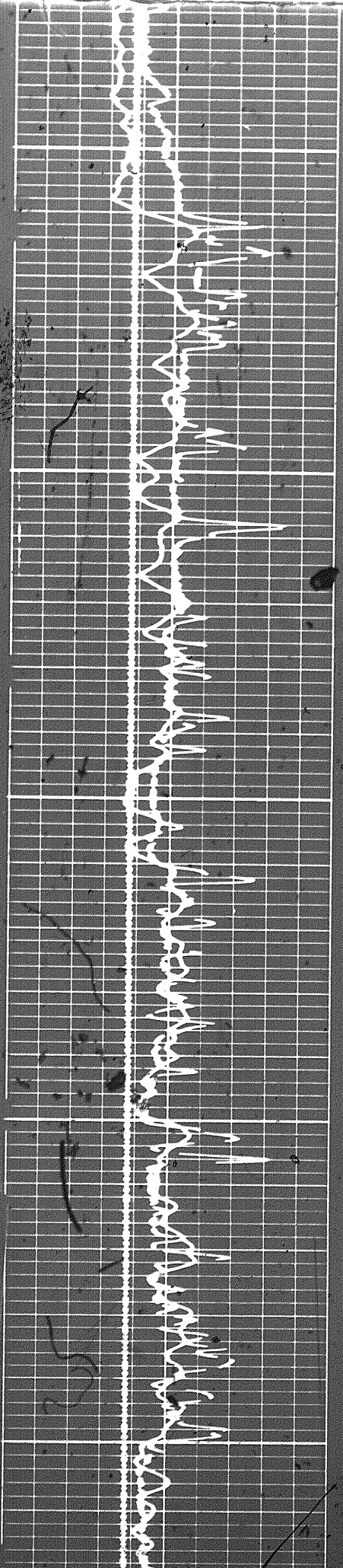


1200



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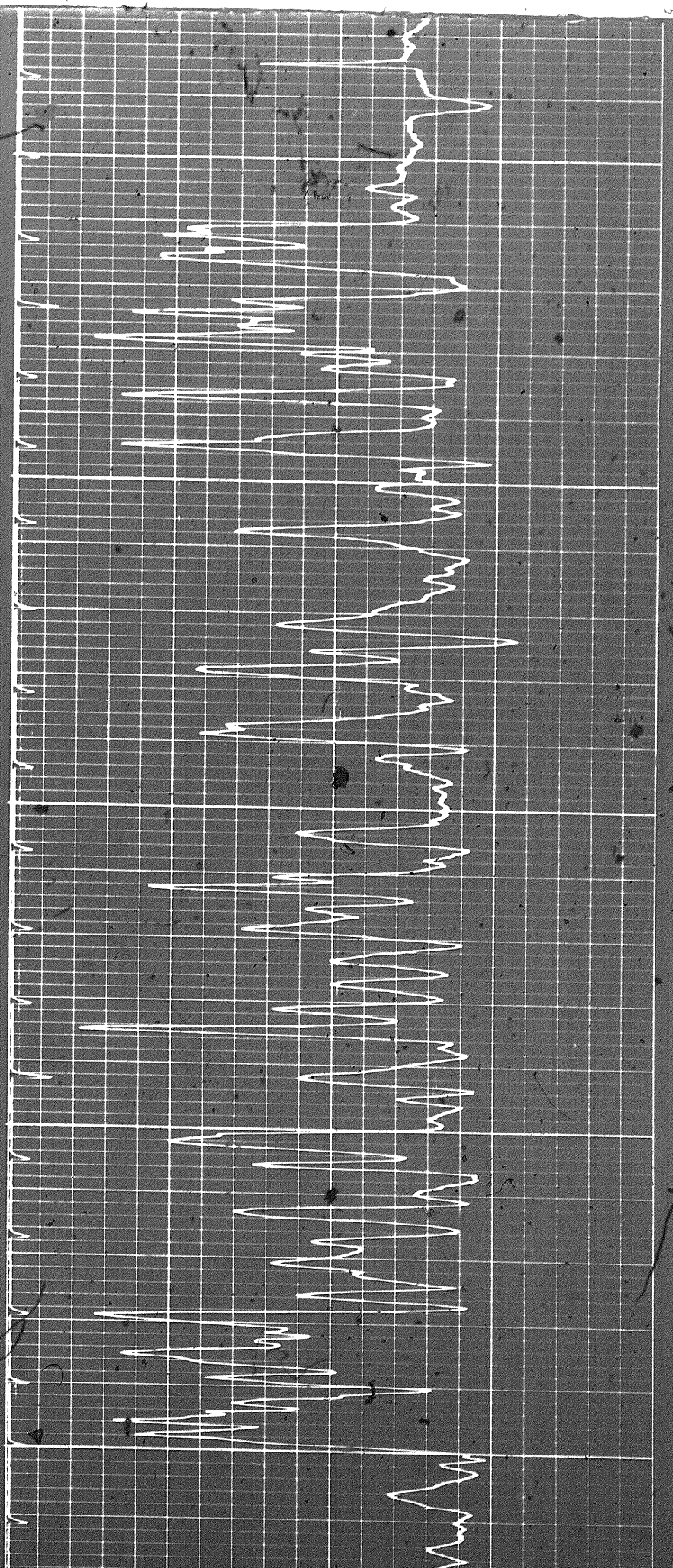
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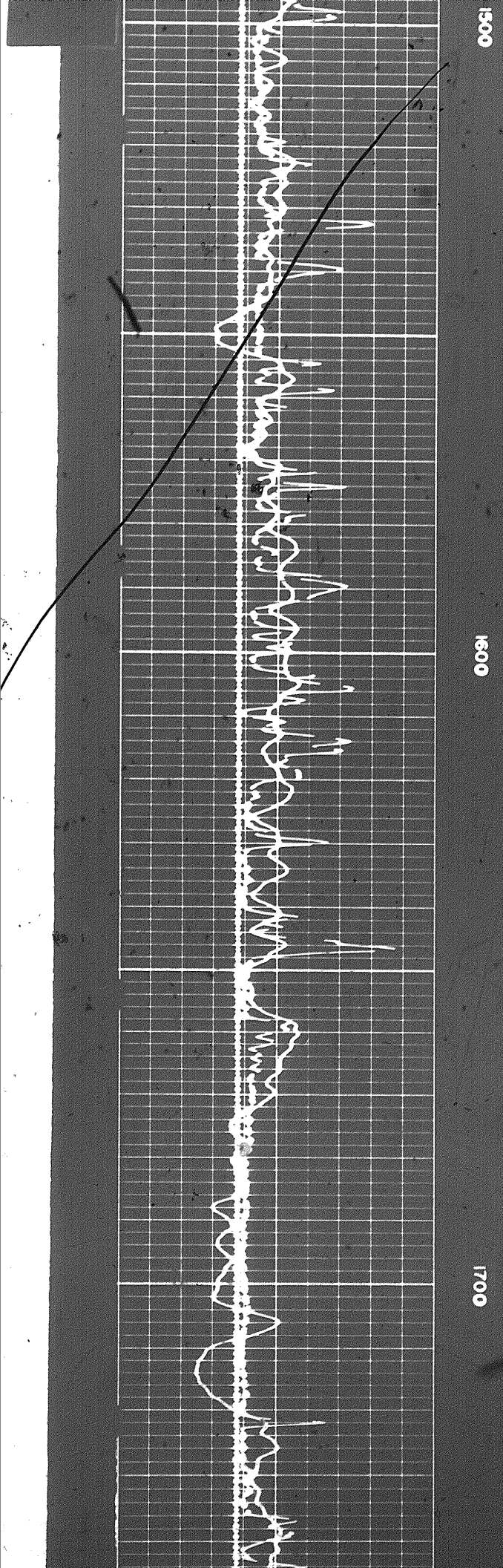


1300

1400

1500

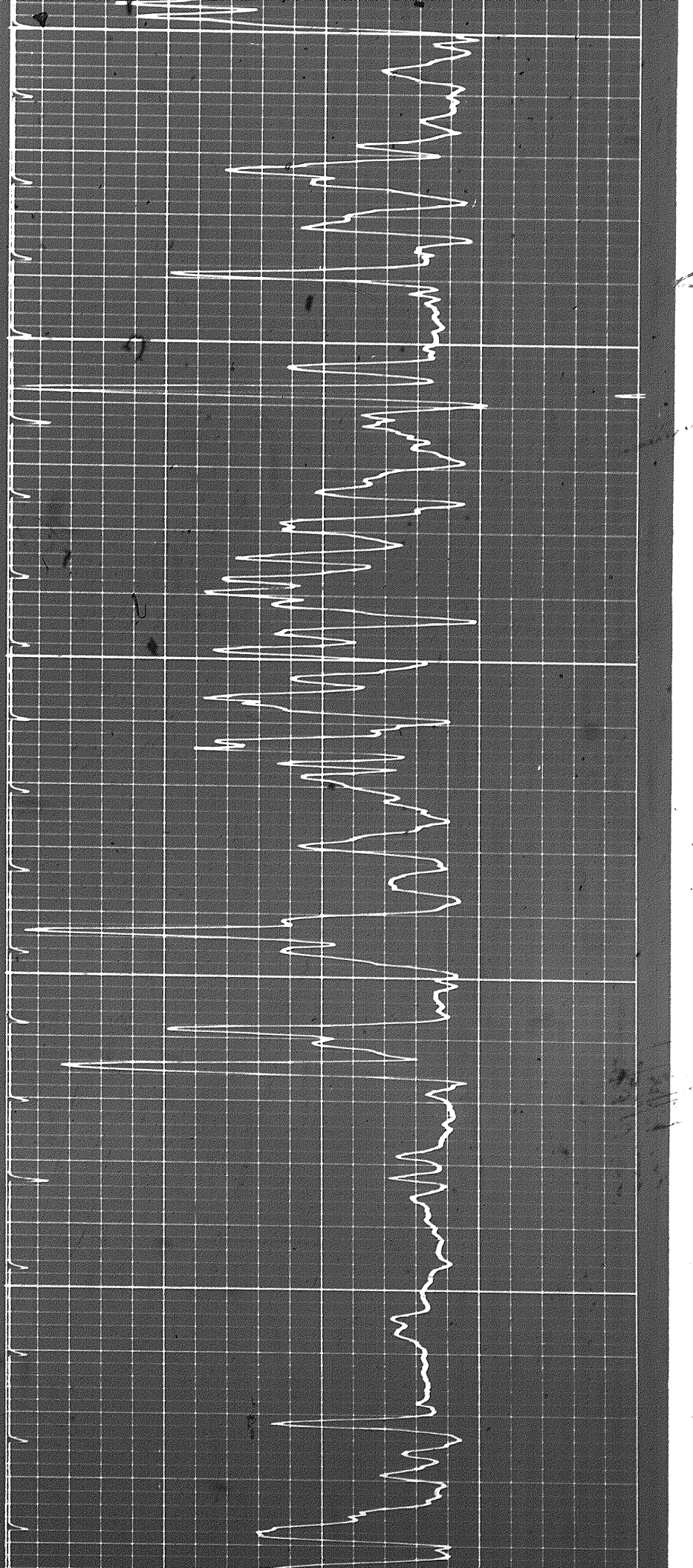


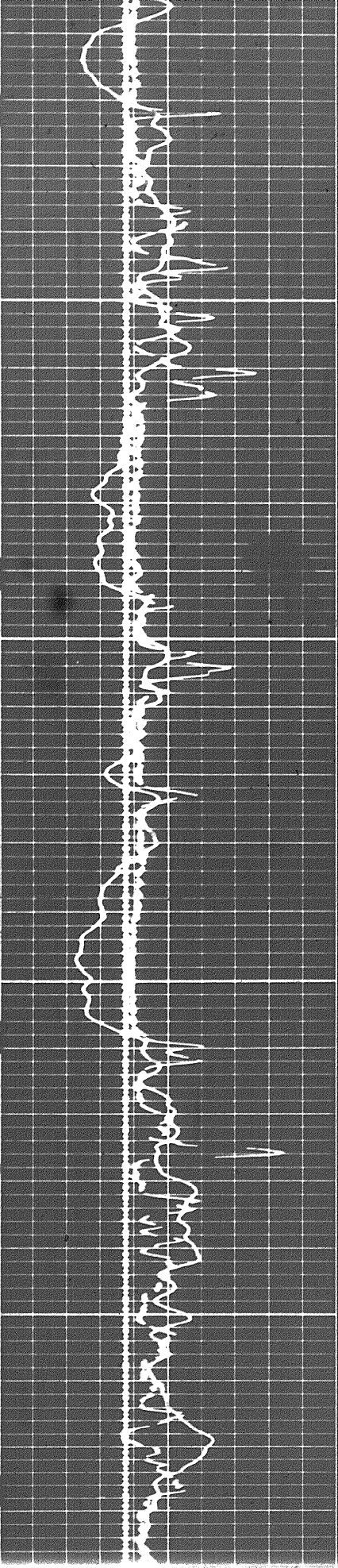


1500

1600

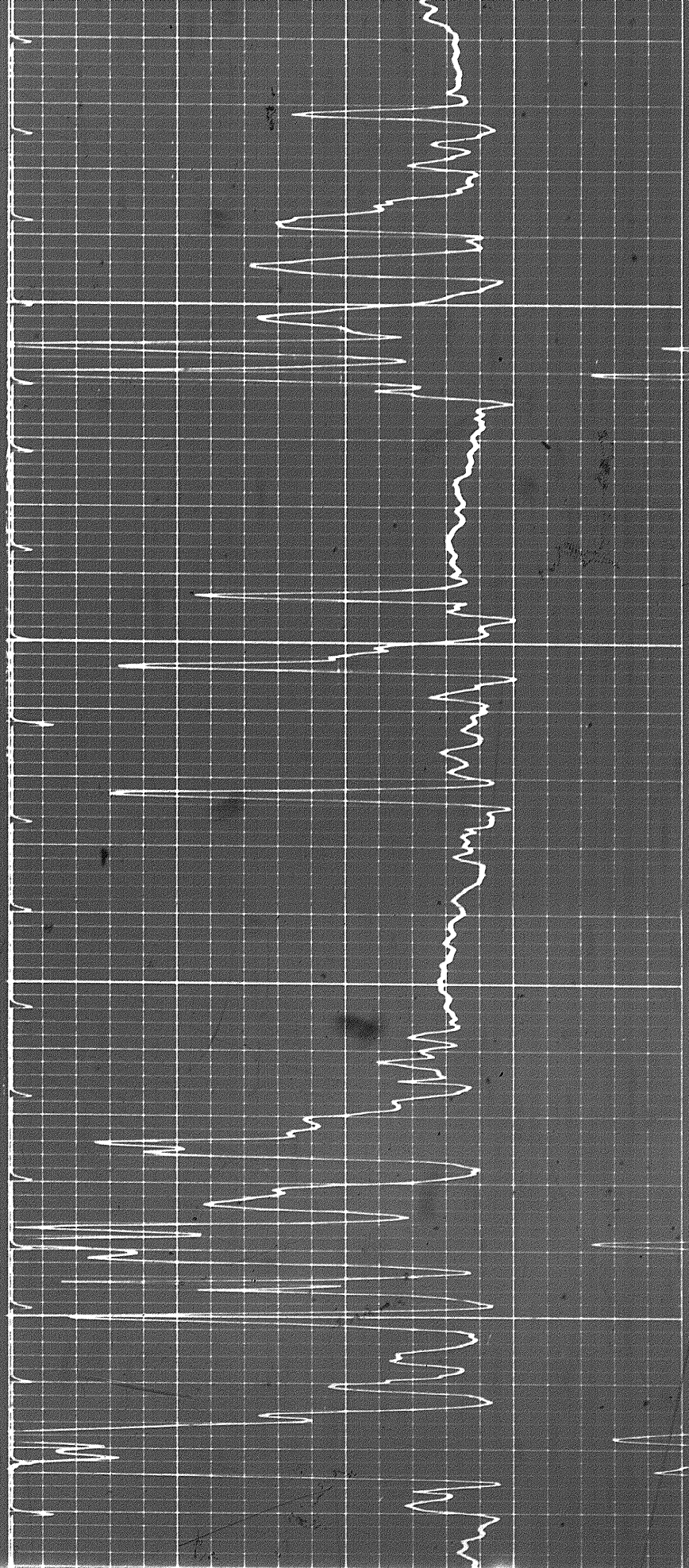
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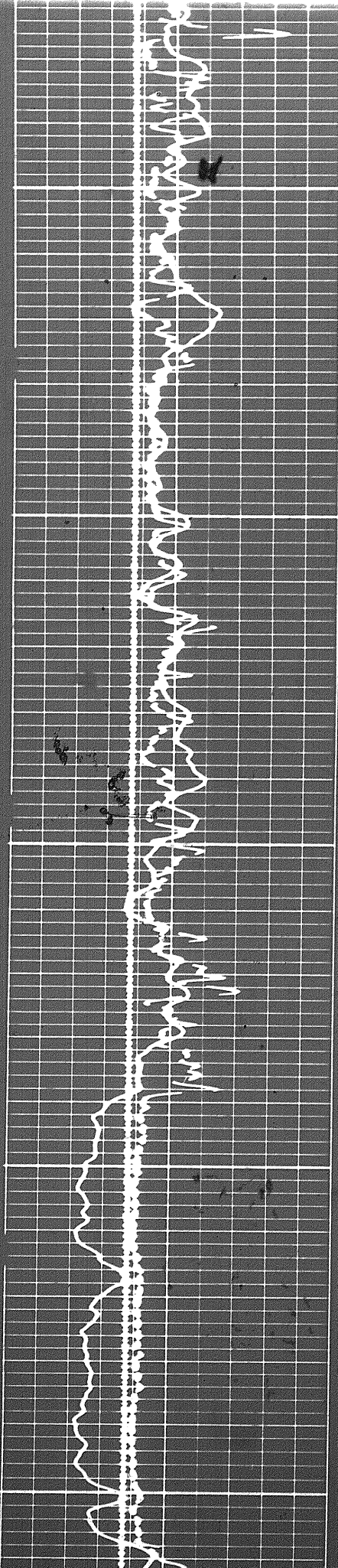


1800

1900



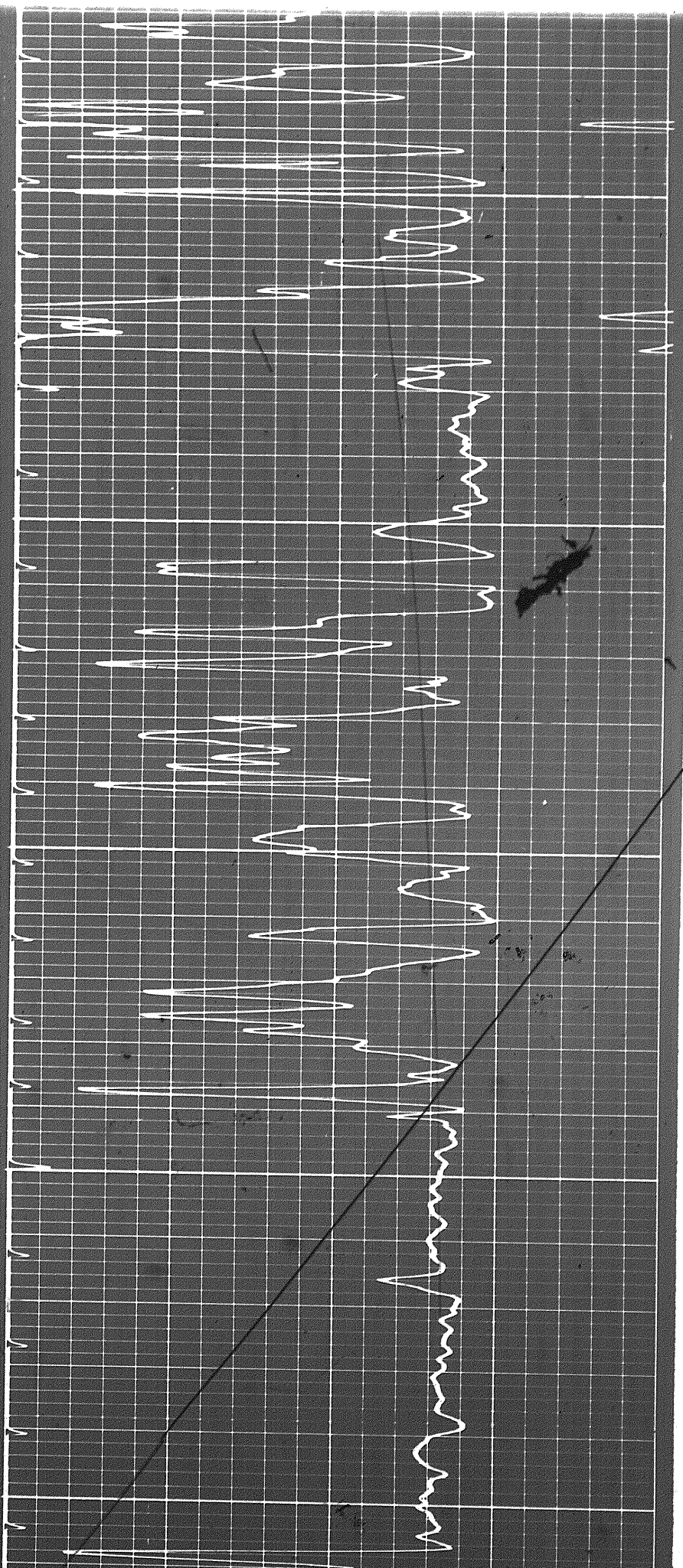
12 of

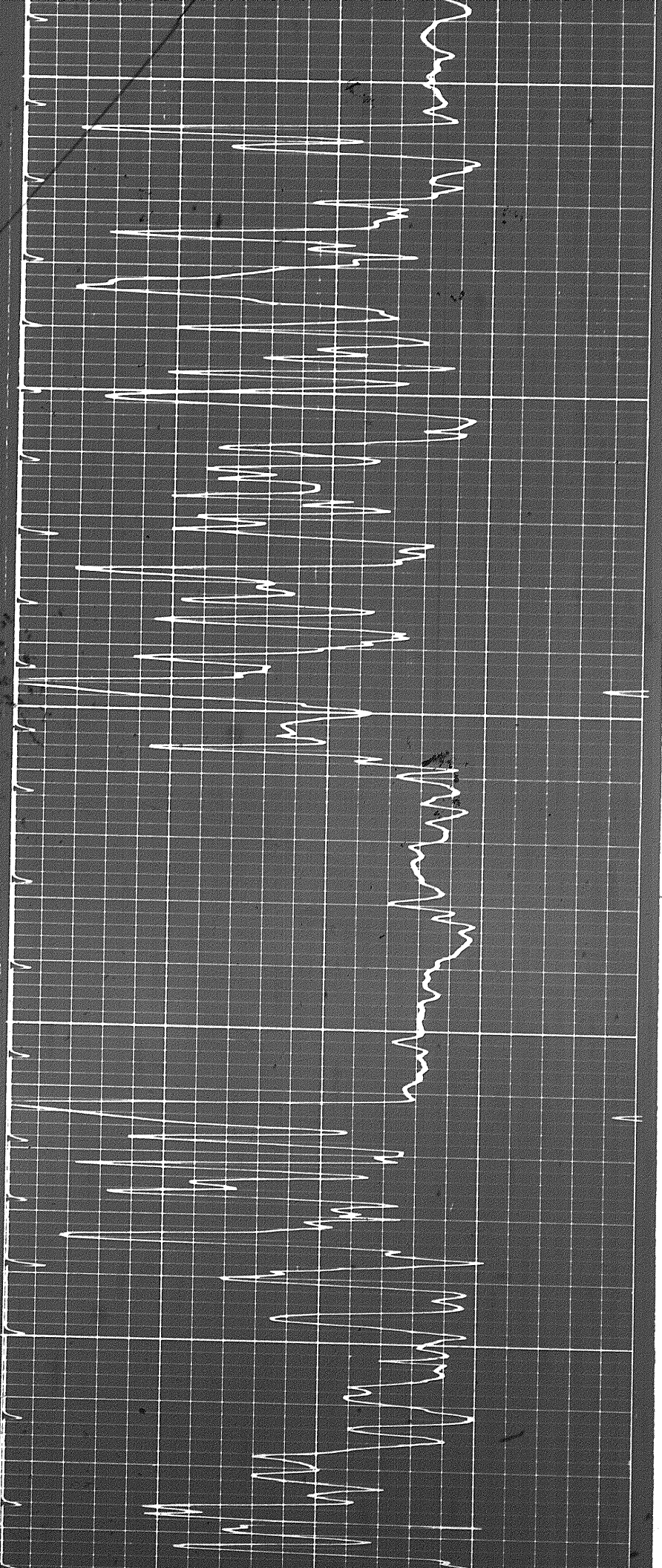


1900

2000

2100

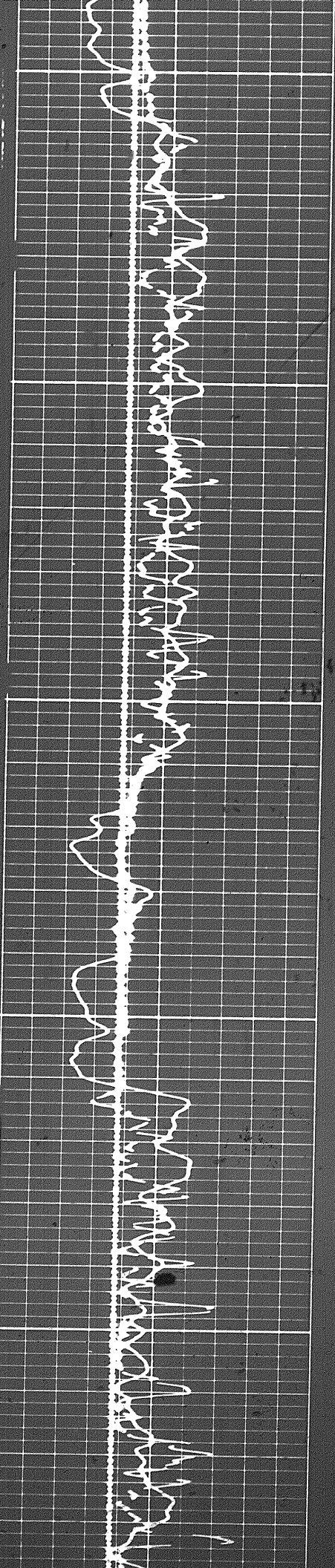


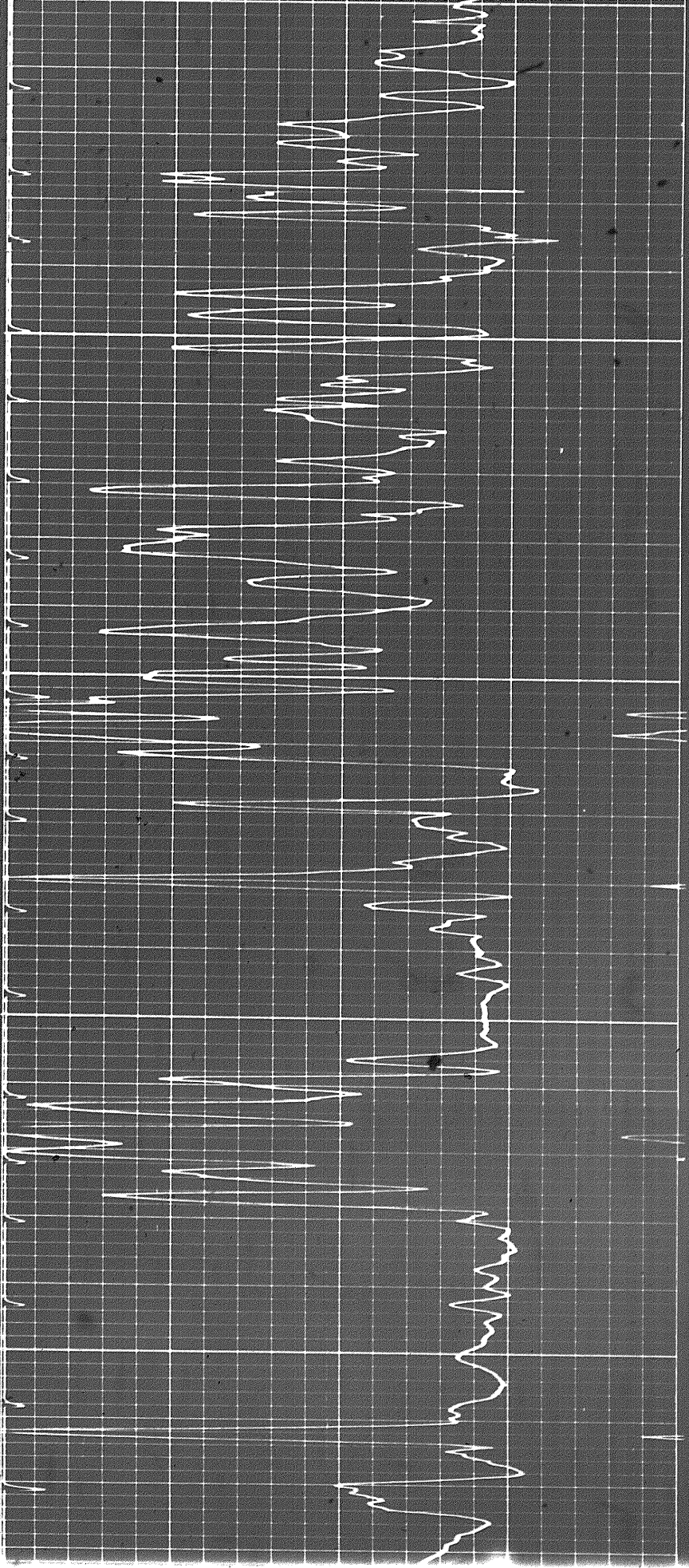


2100

2200

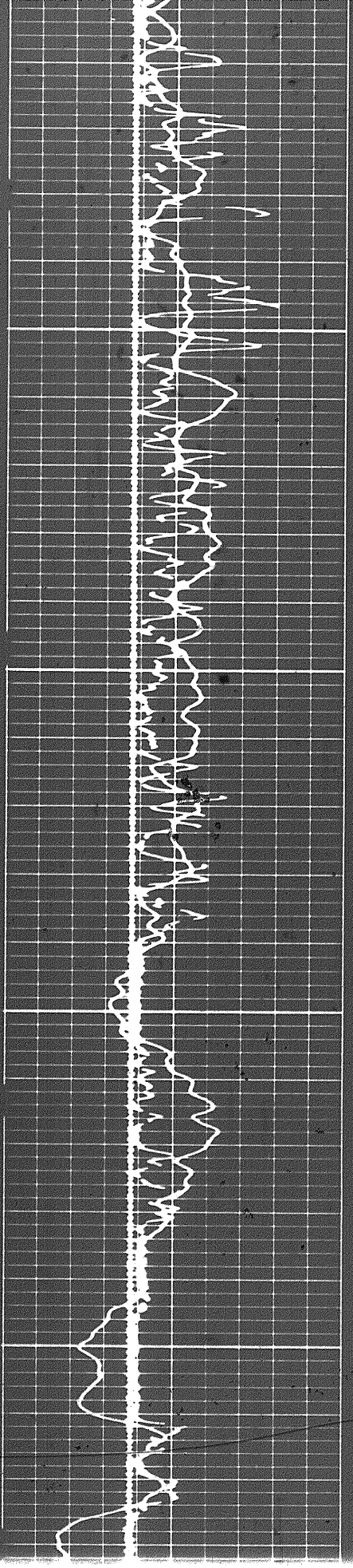
2300



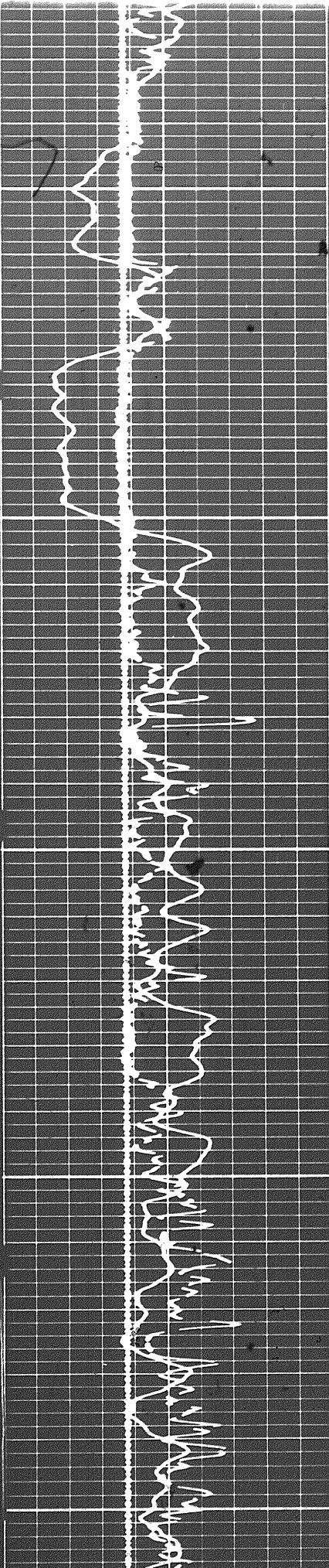


2400

2500



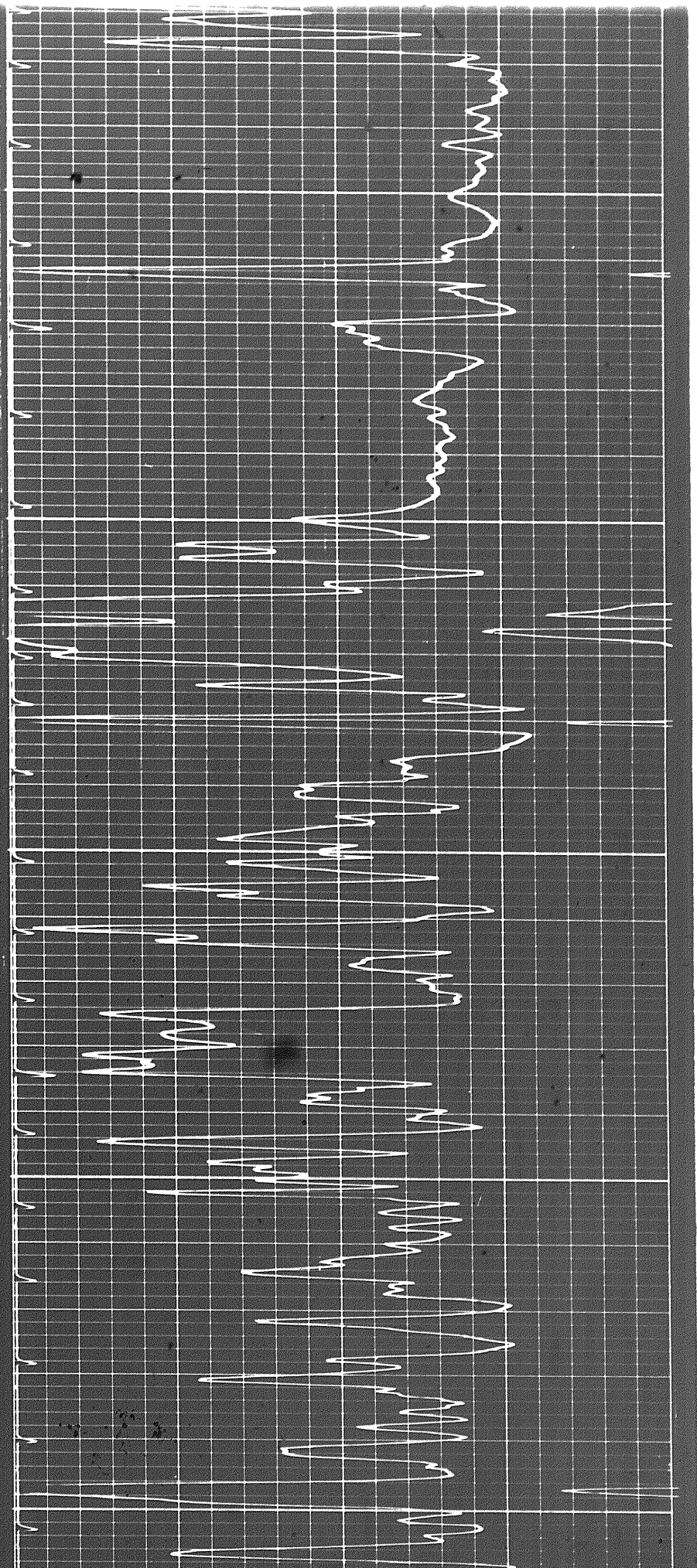
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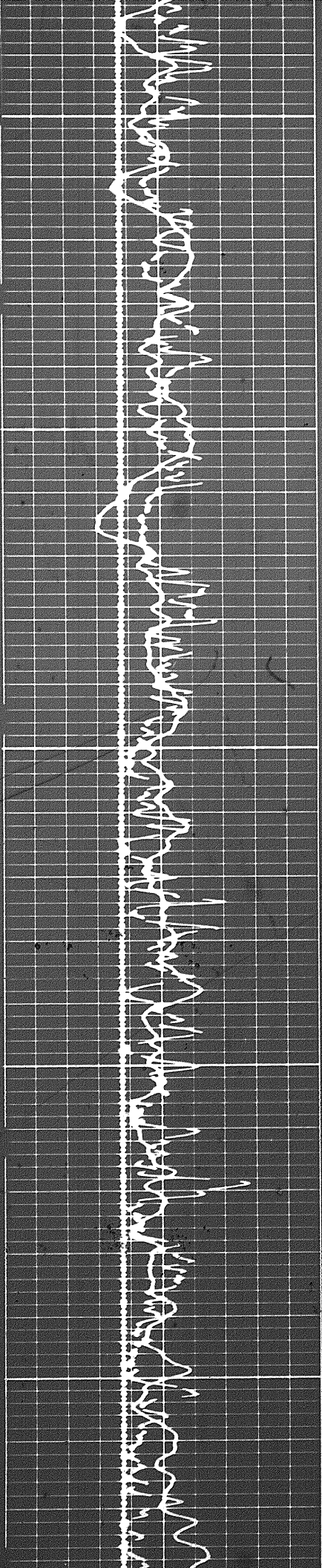
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2600

2700



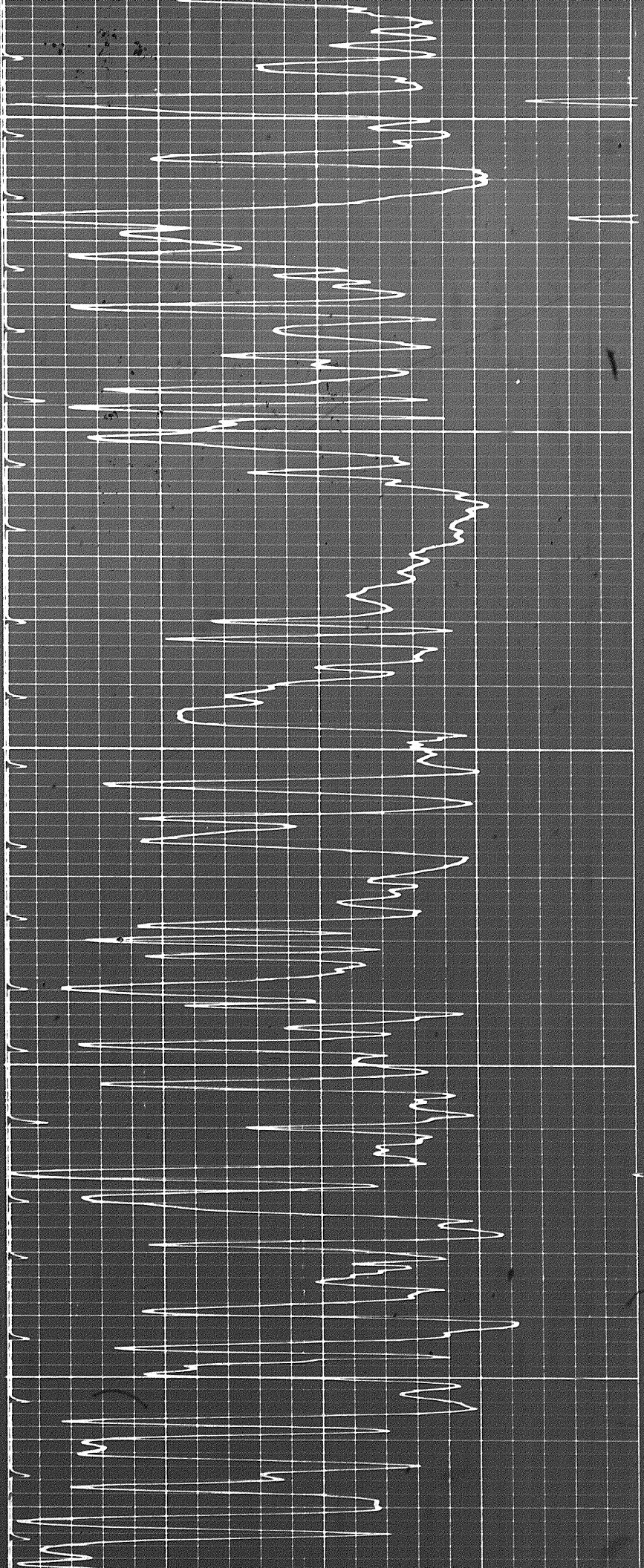
of



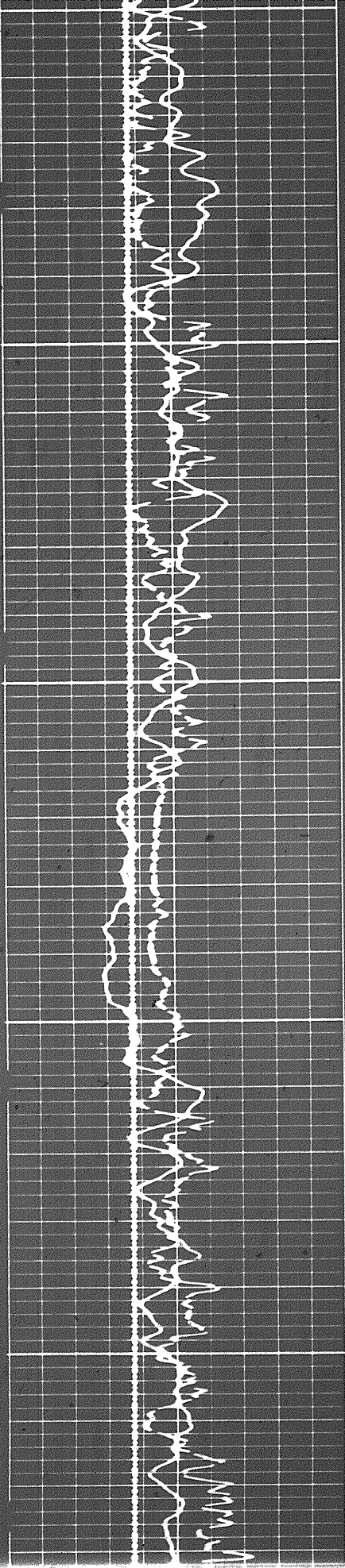
2700

2800

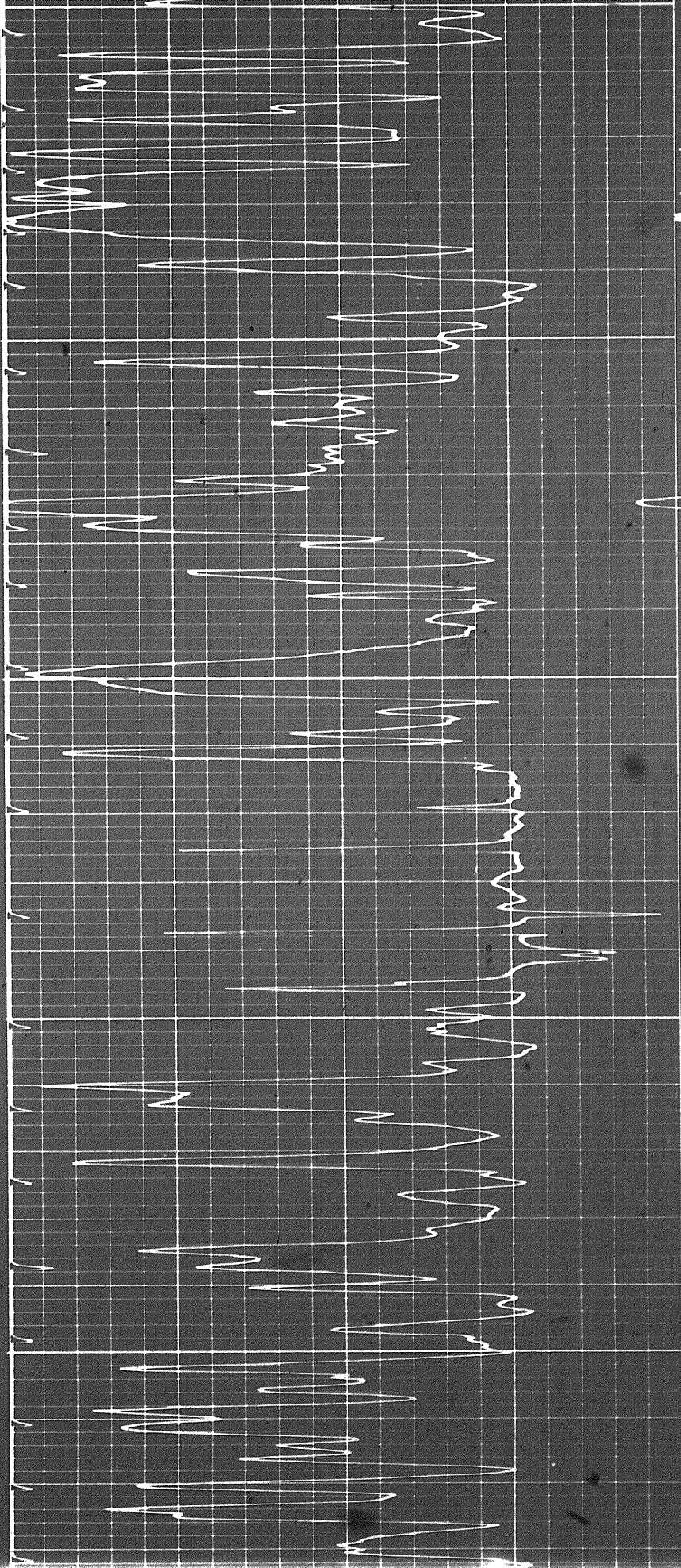
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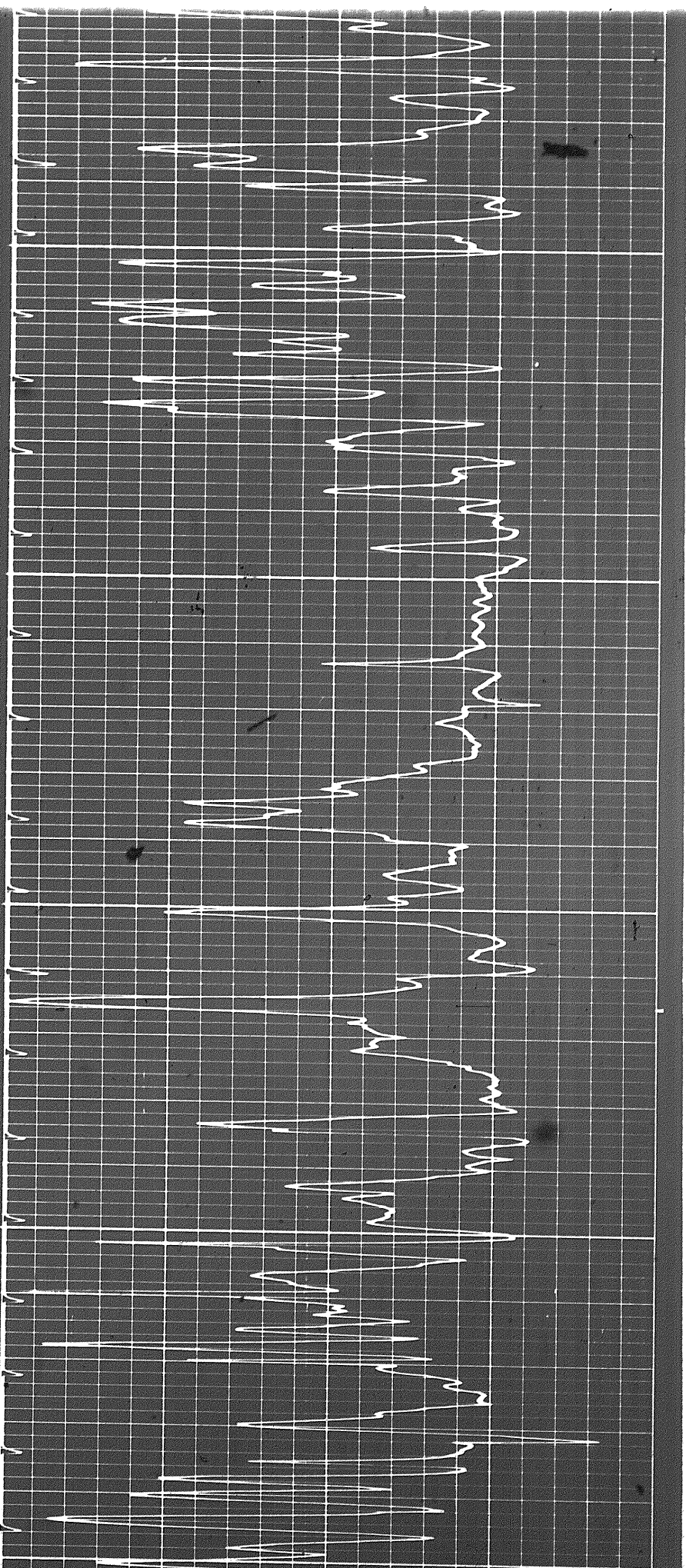
3009



3008



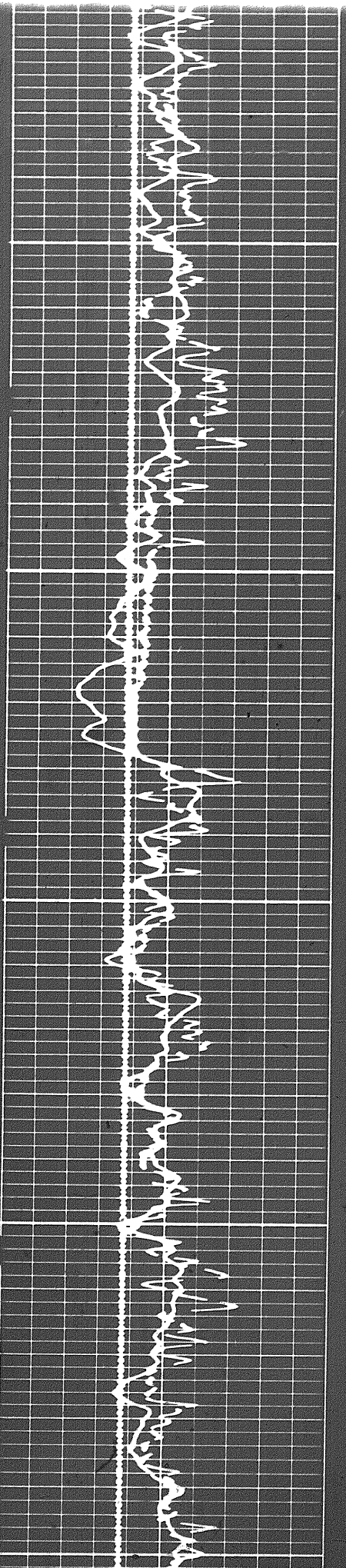
3100



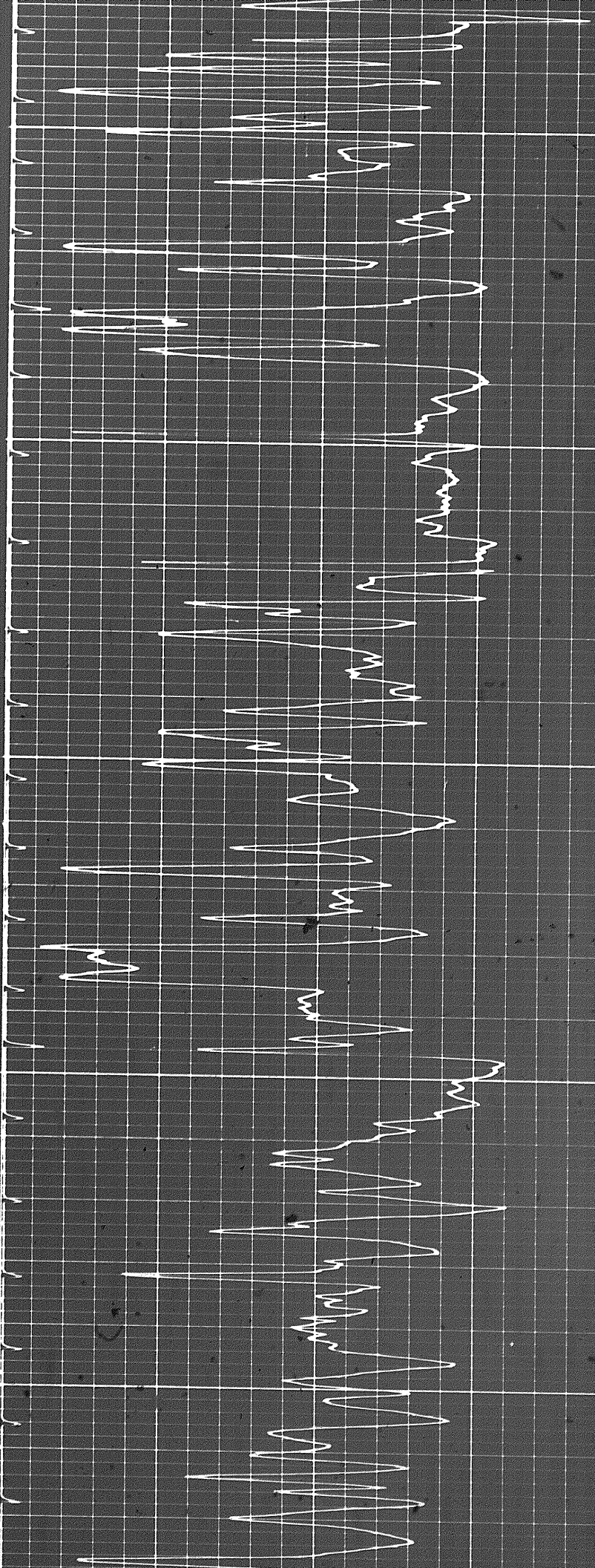
300

3200

330



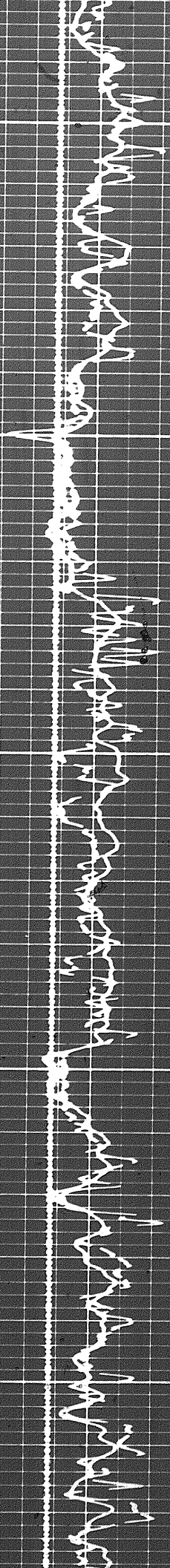
11



3300

3400

3500



3500

3600

3700

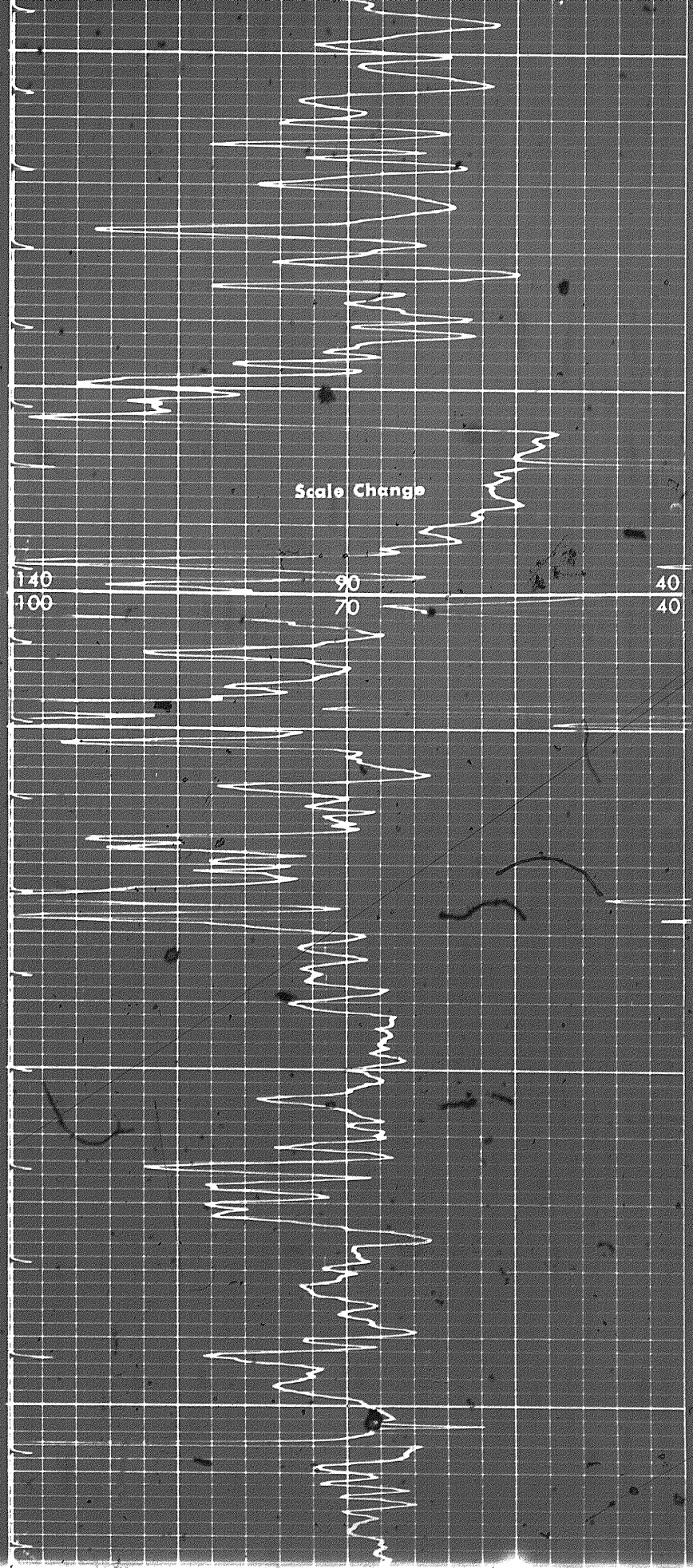
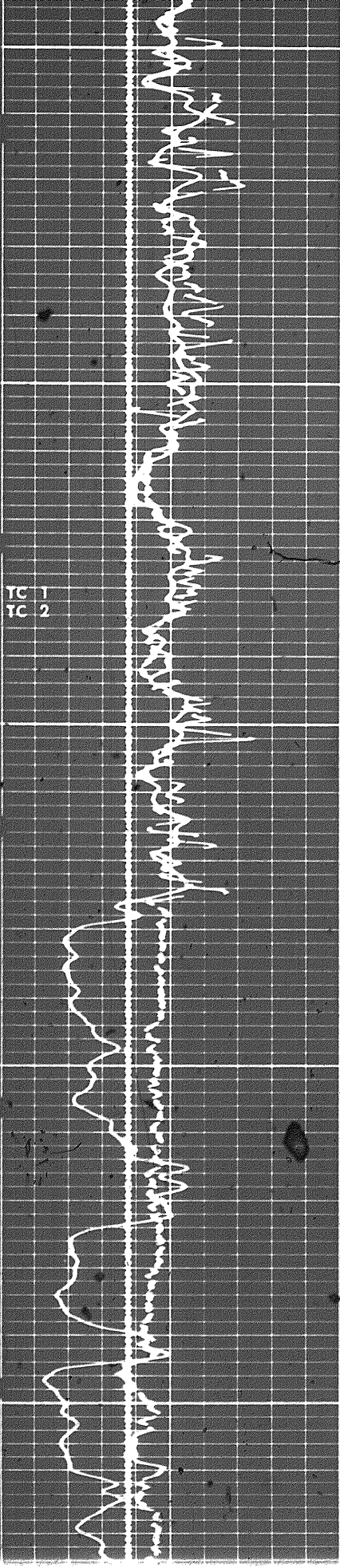
TC 1
TC 2

Scale Change

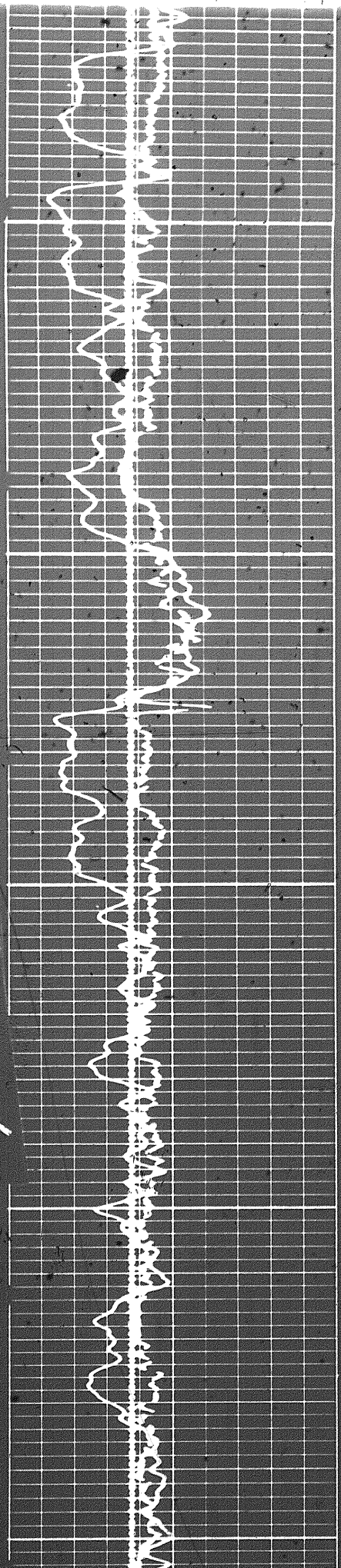
140
100

90
70

40
40



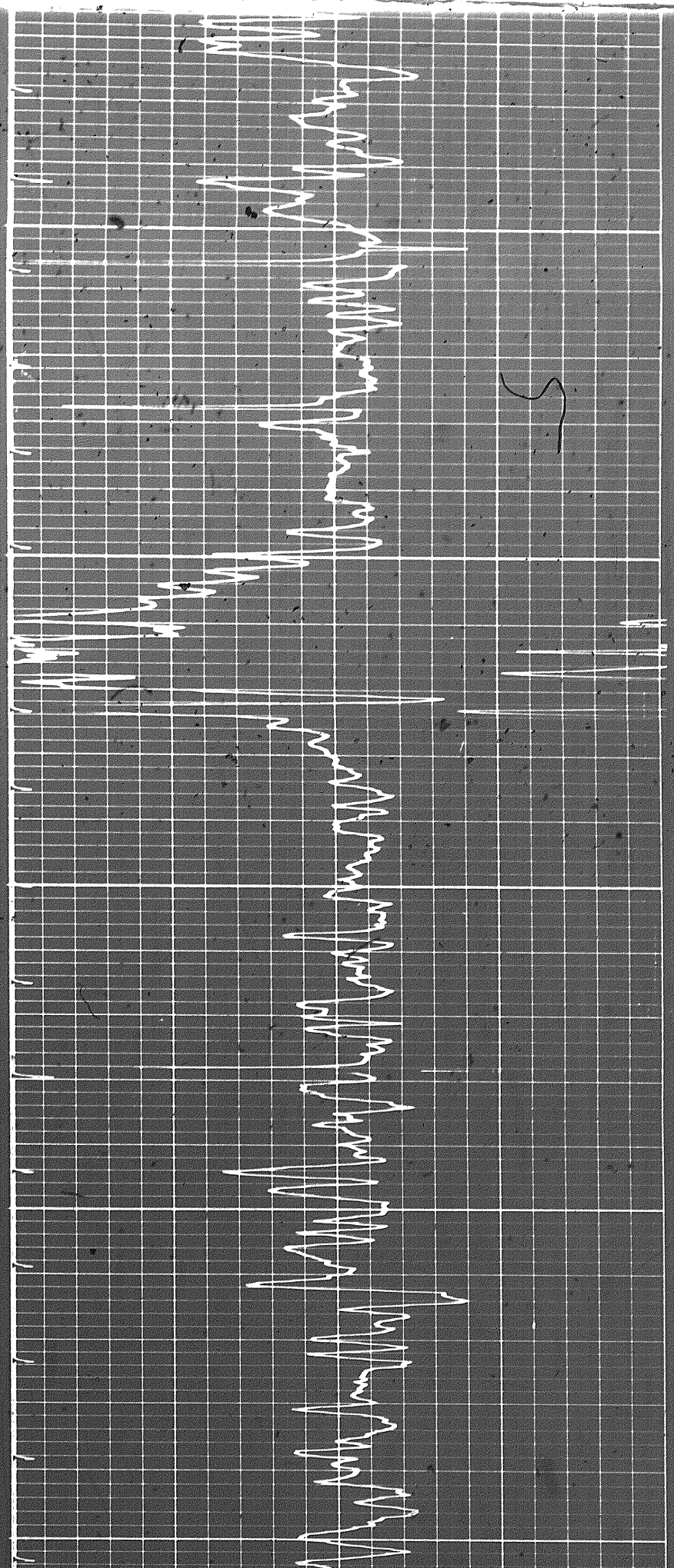
15 of



5700

3600

3900

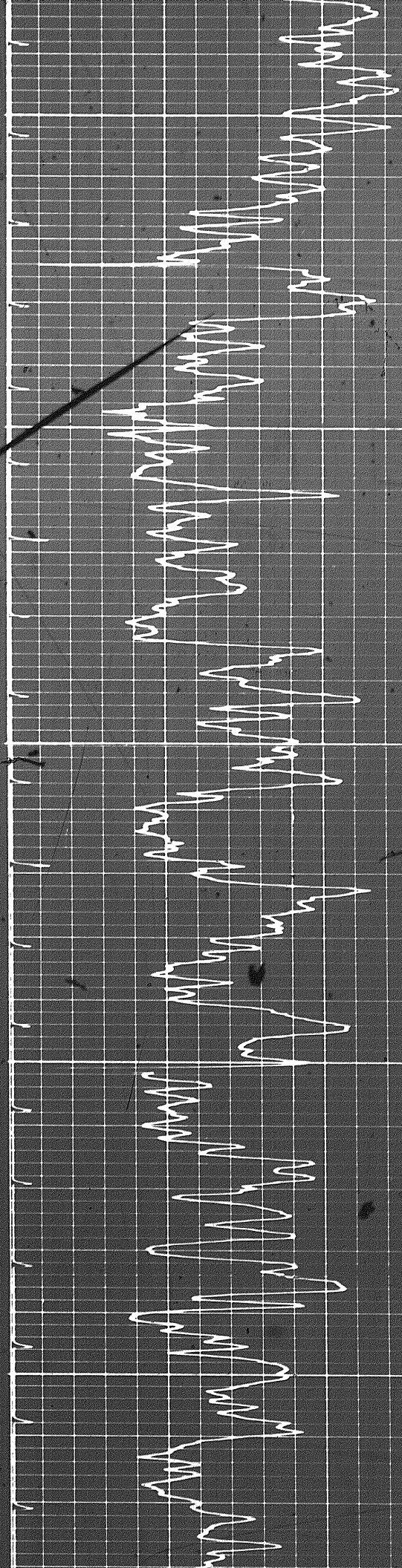
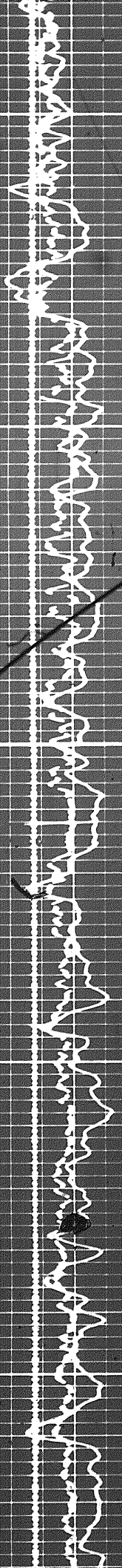


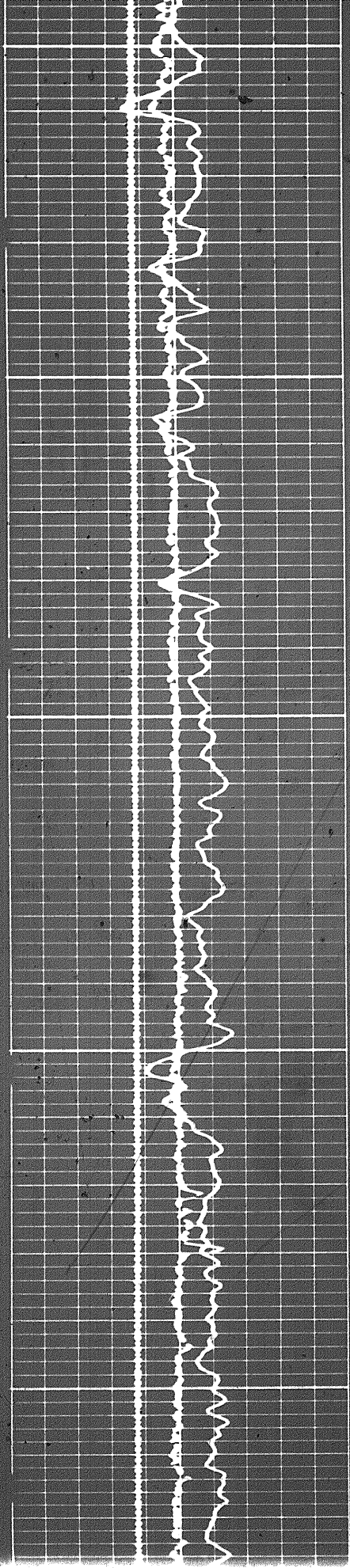
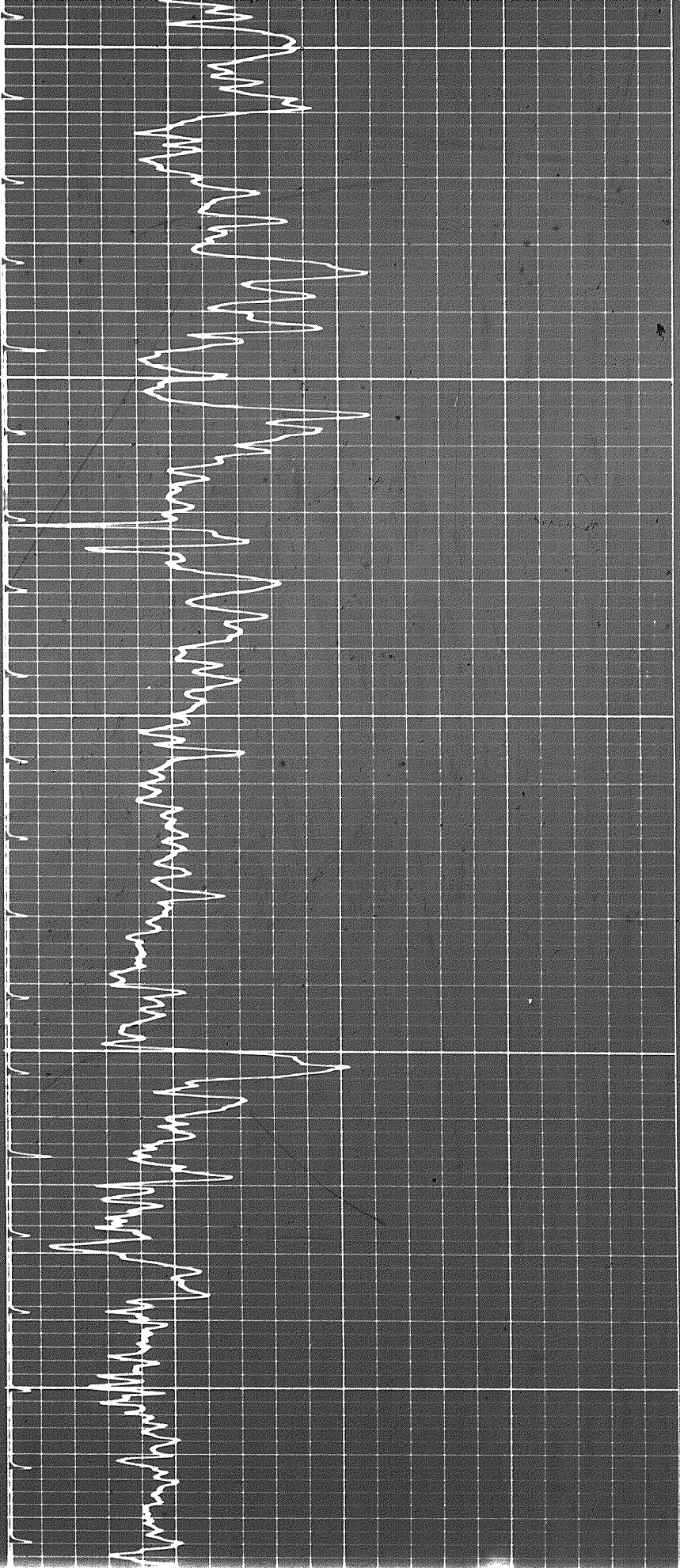
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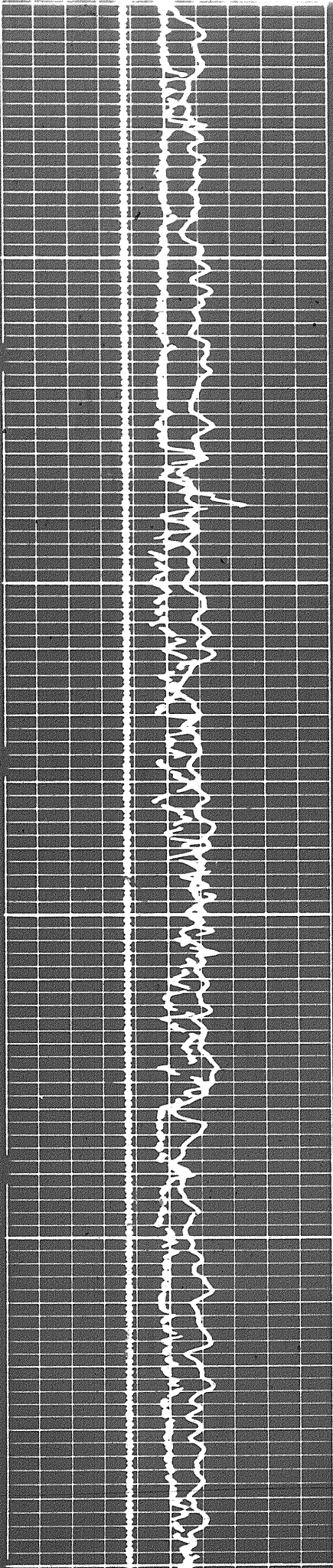
3900

4000

4100



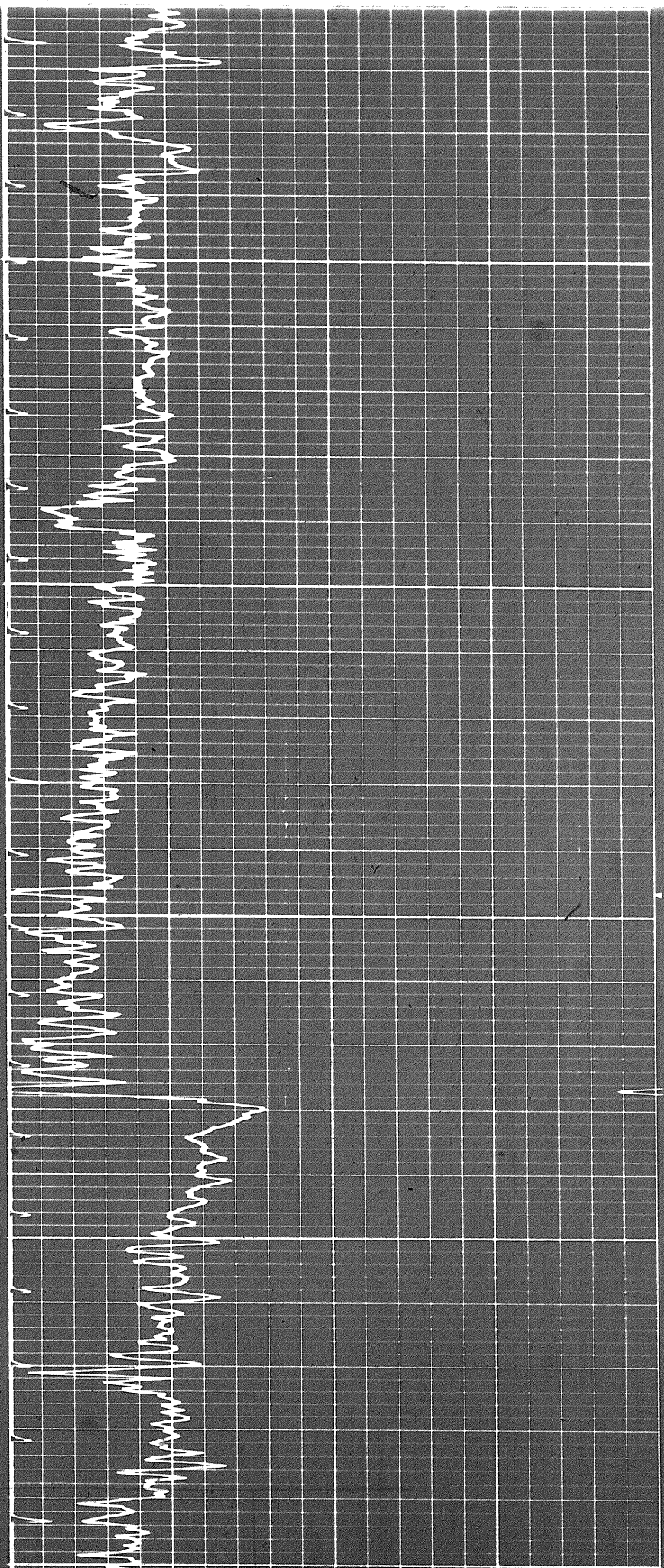


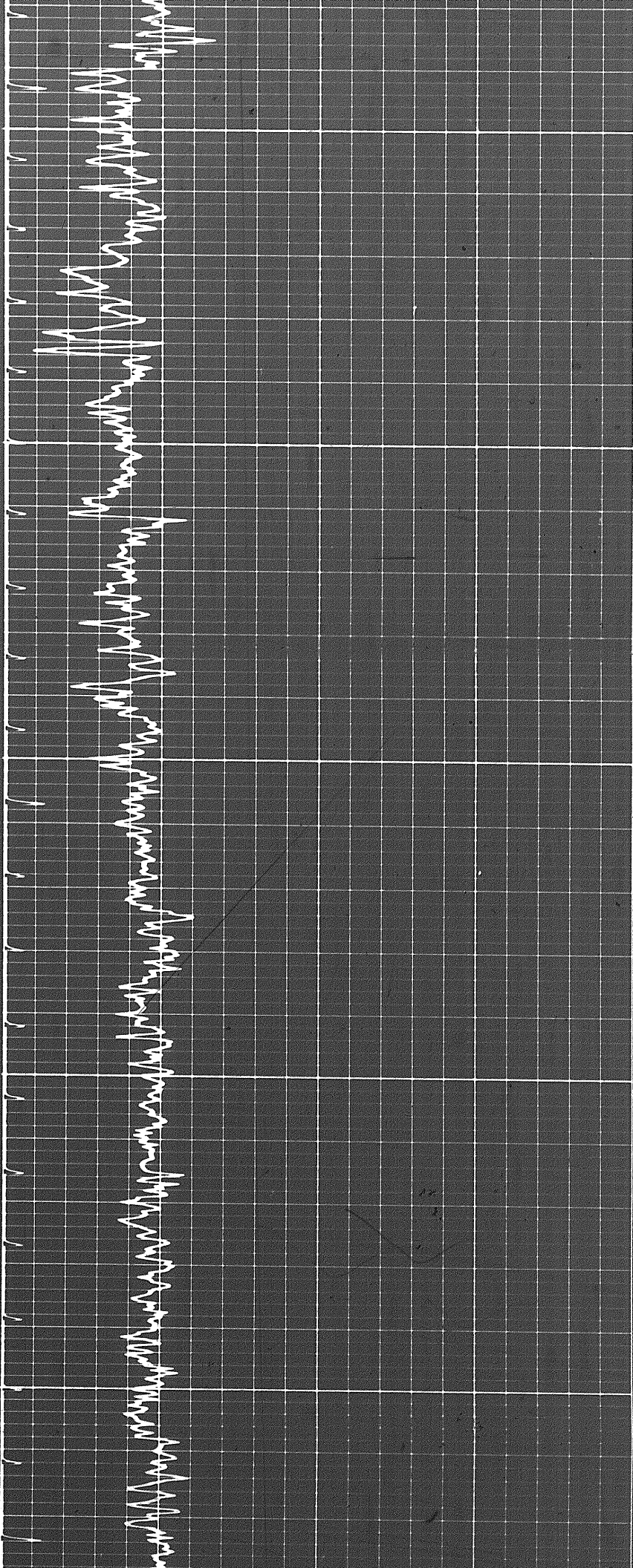


430

440

450

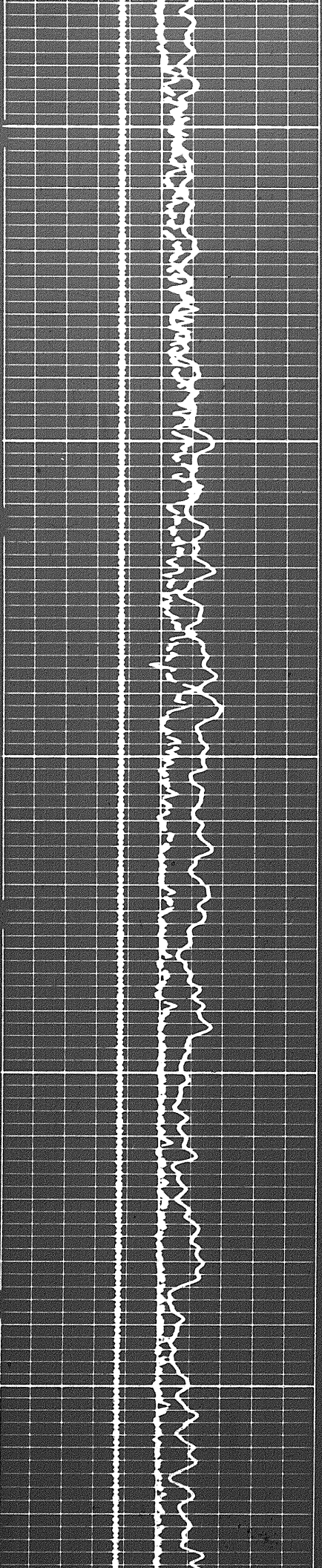


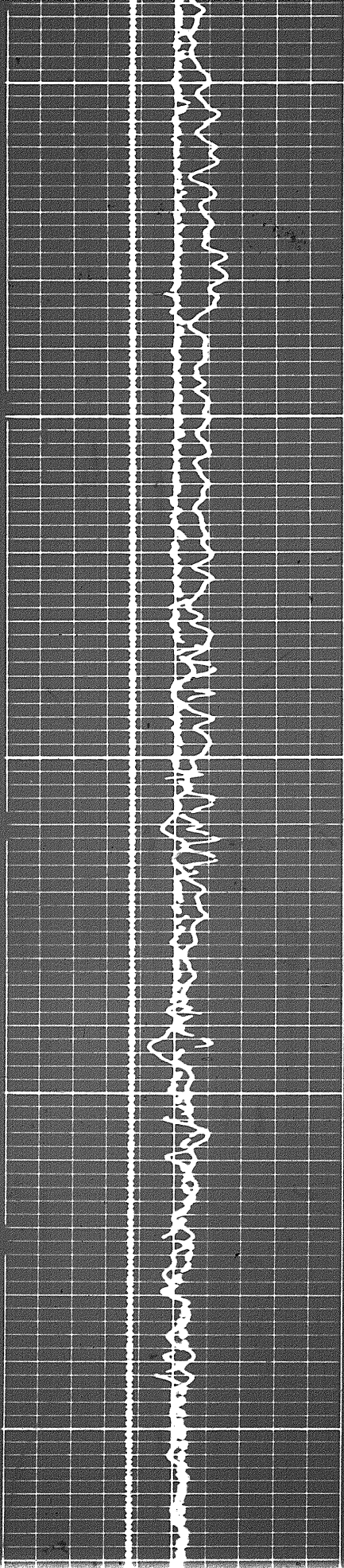


4500

4600

4700

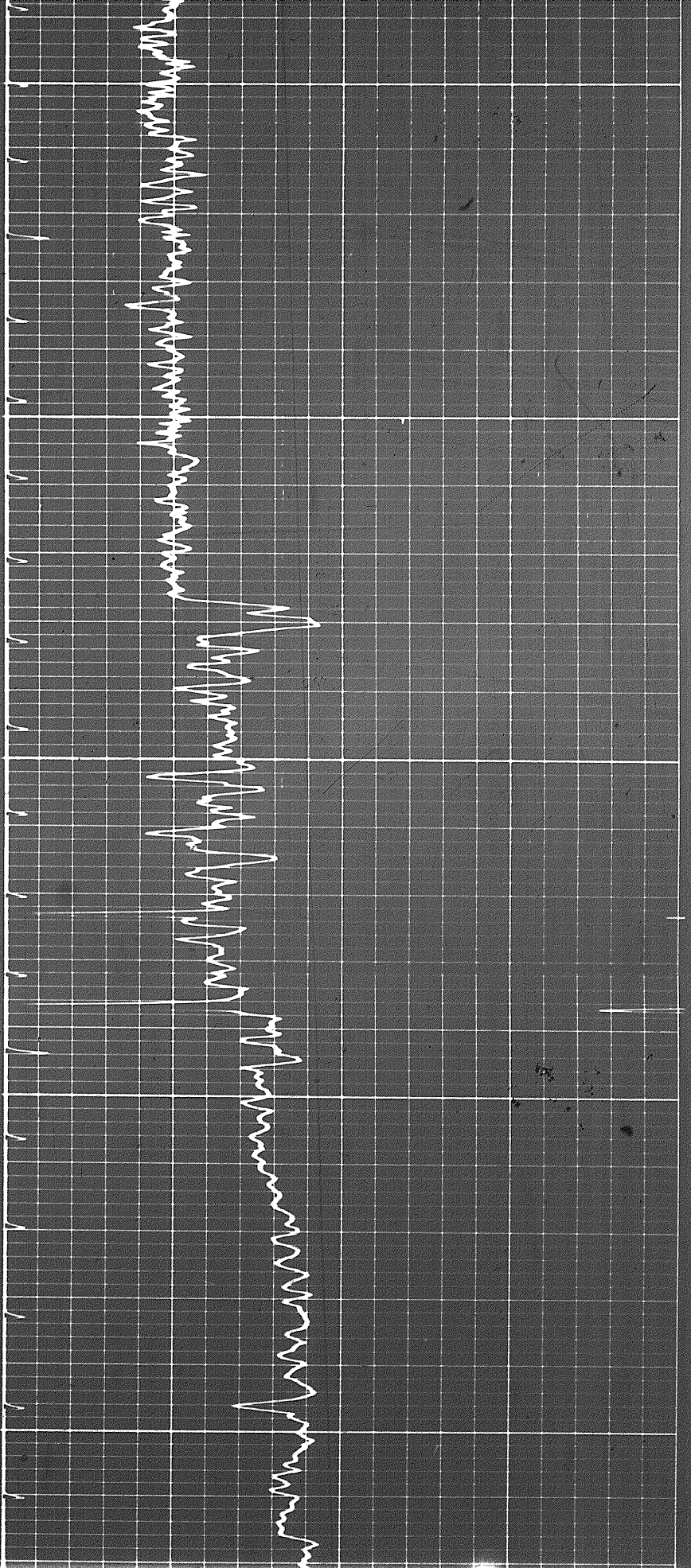




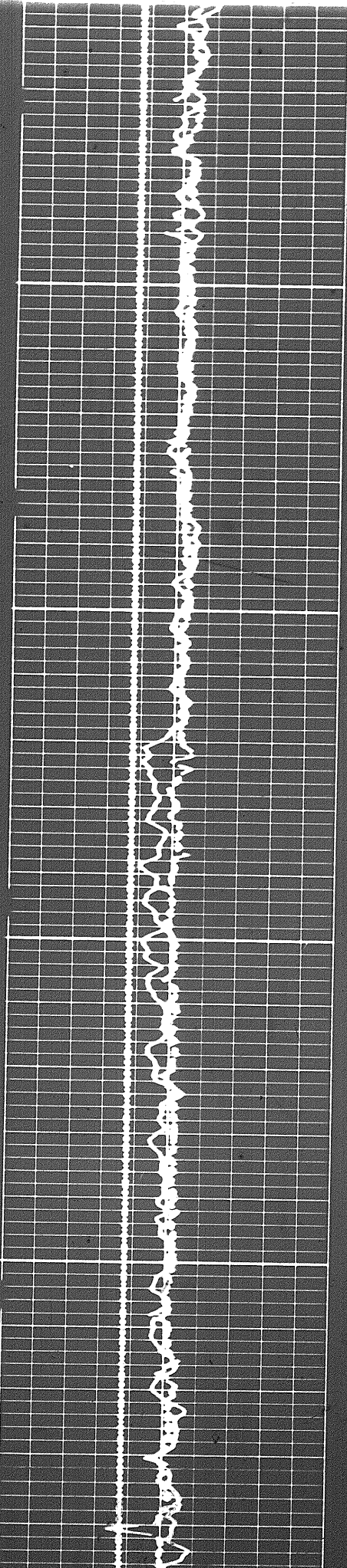
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4800

4900

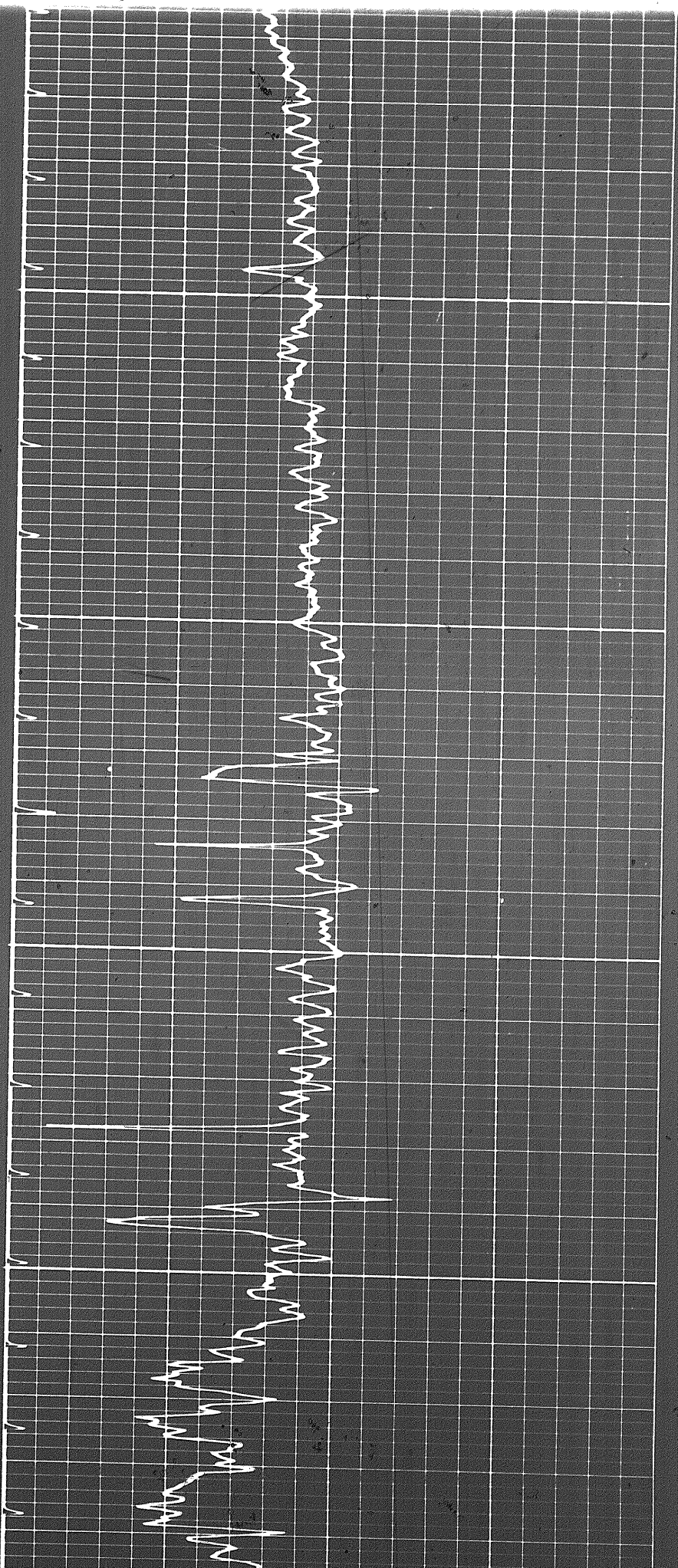


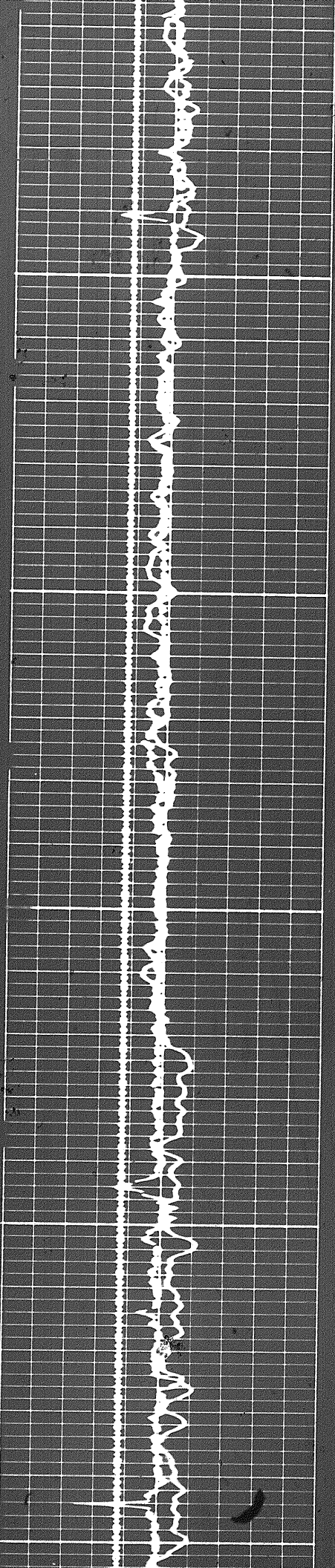
17 of



4900

5000

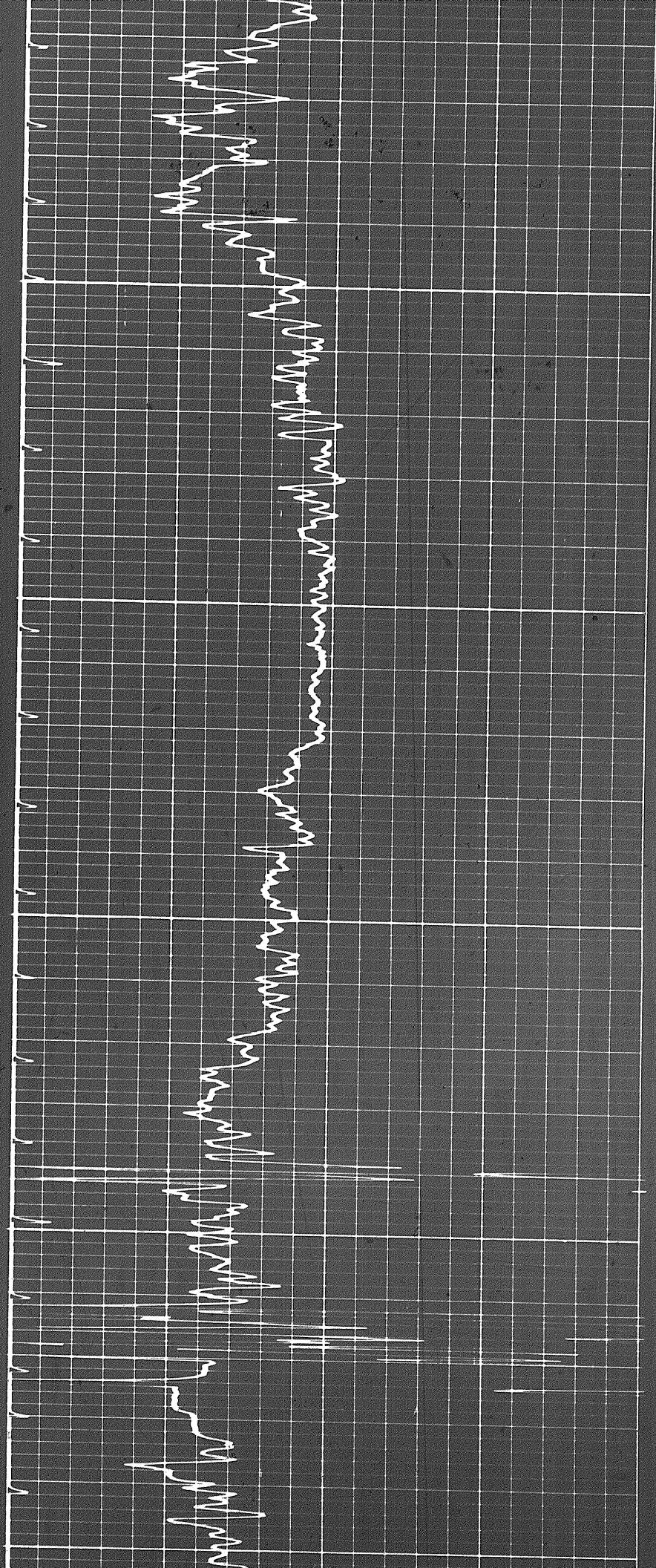


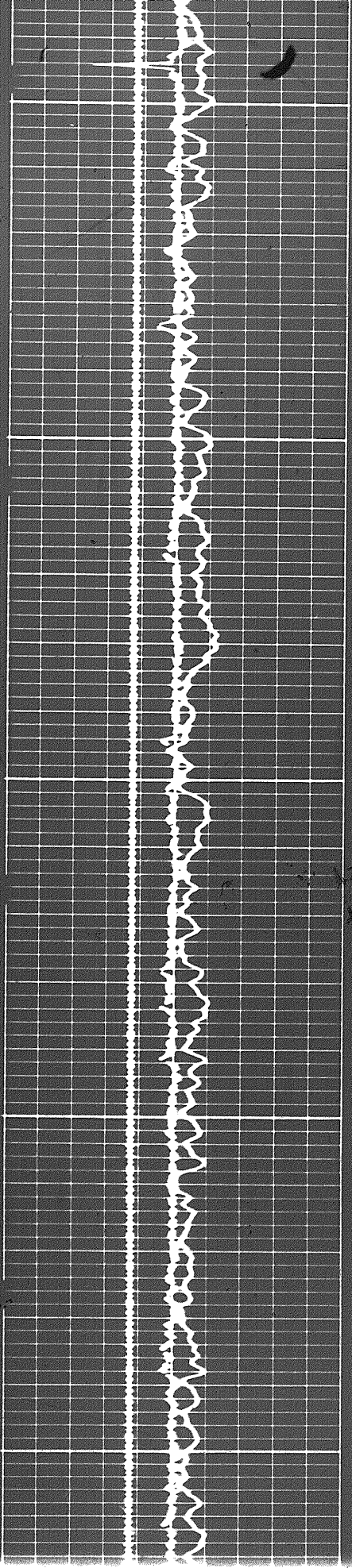


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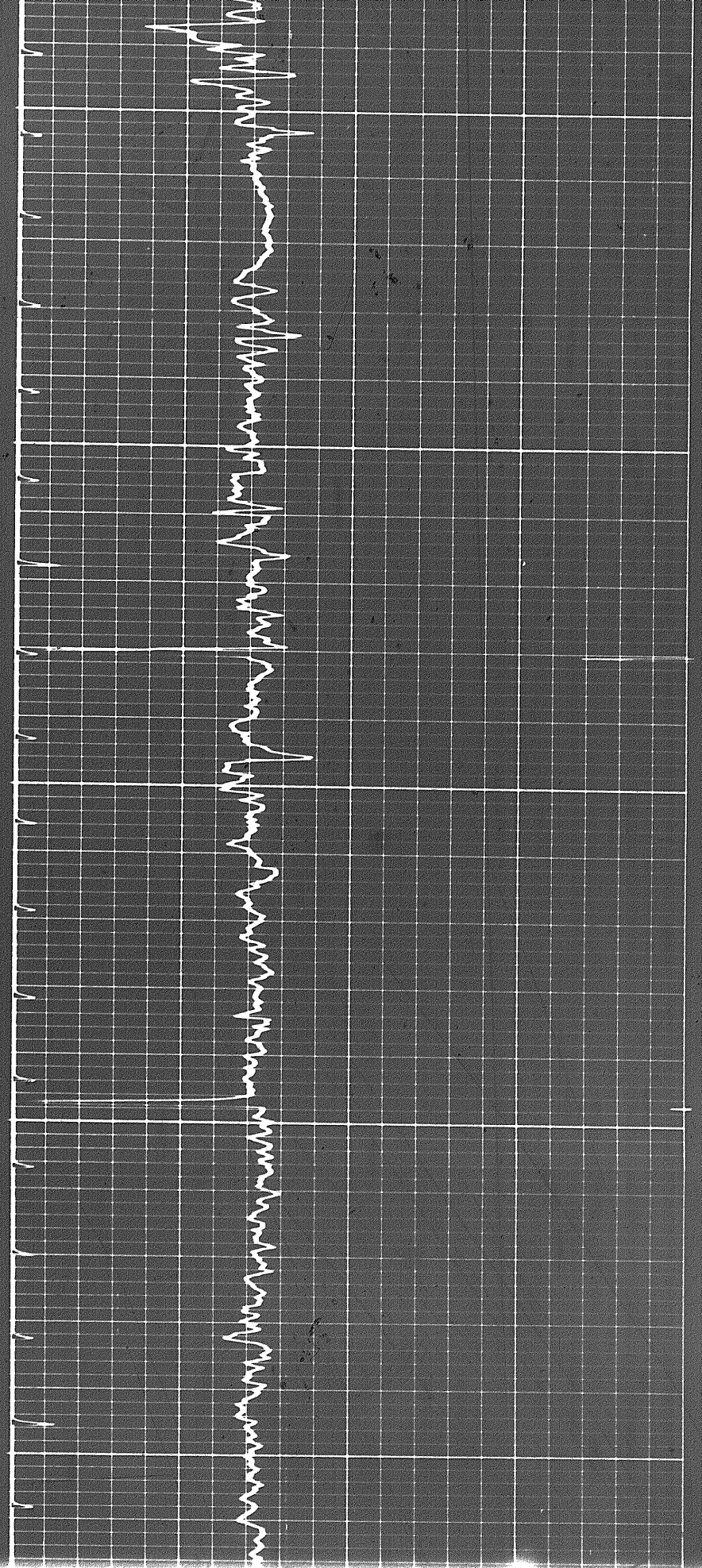




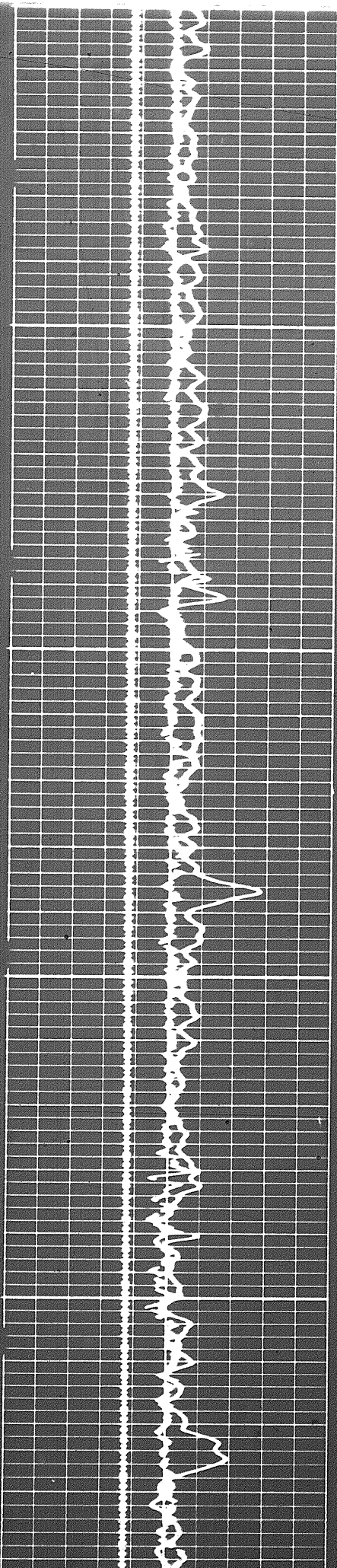
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5400

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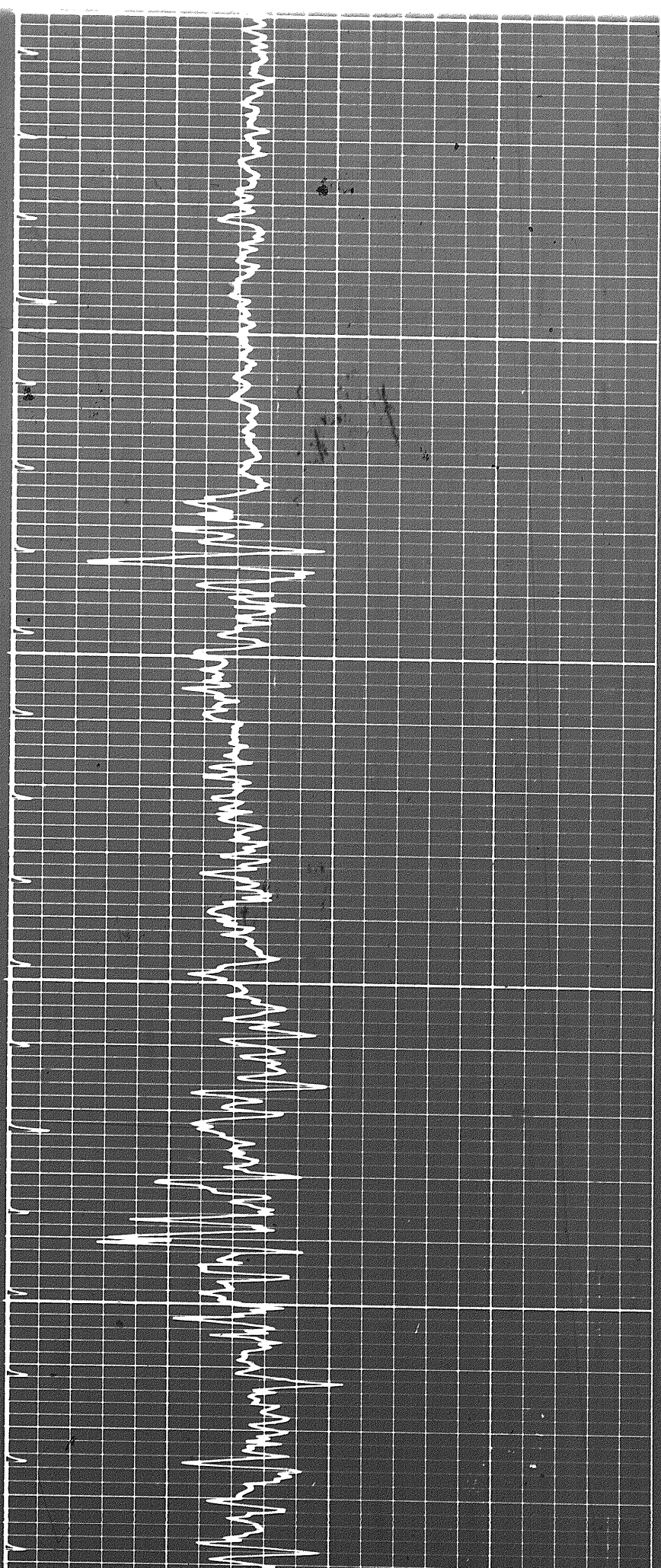


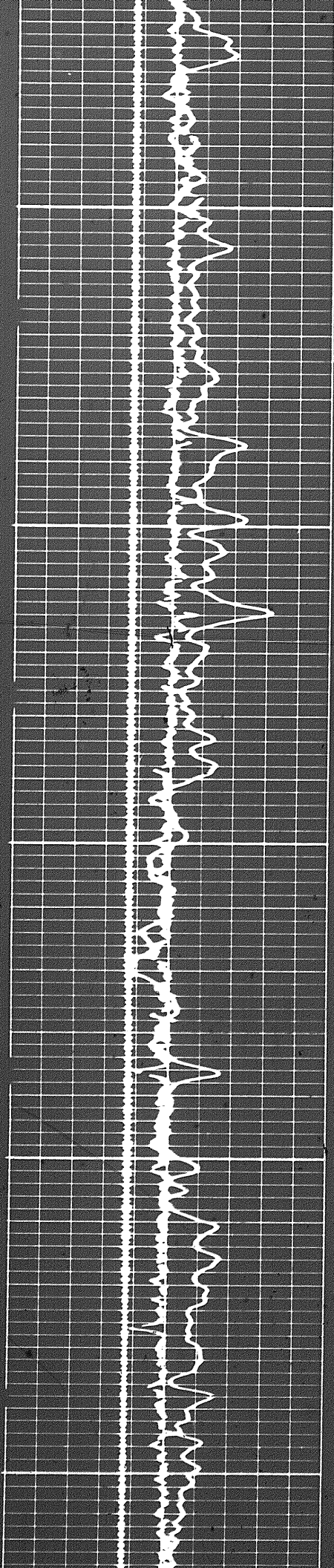
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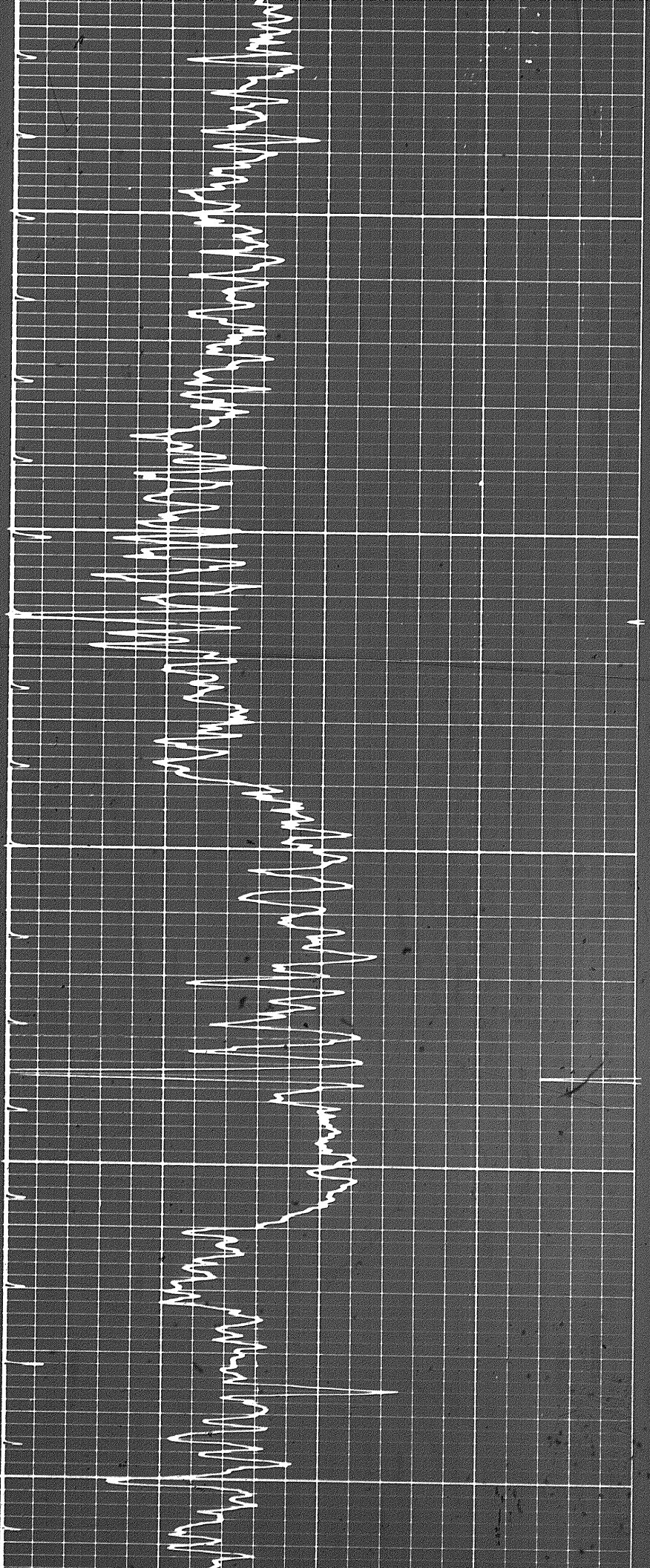
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5000



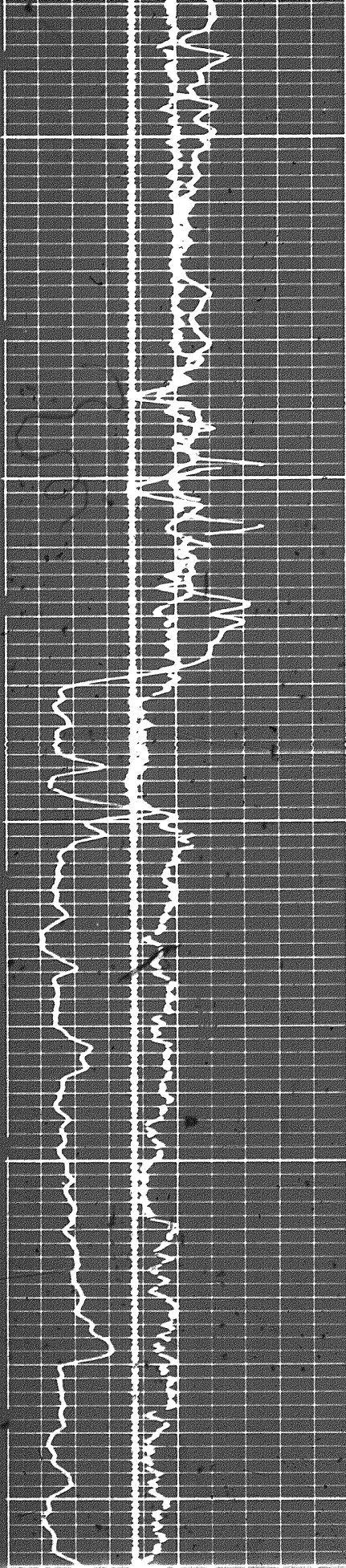


5700



5800

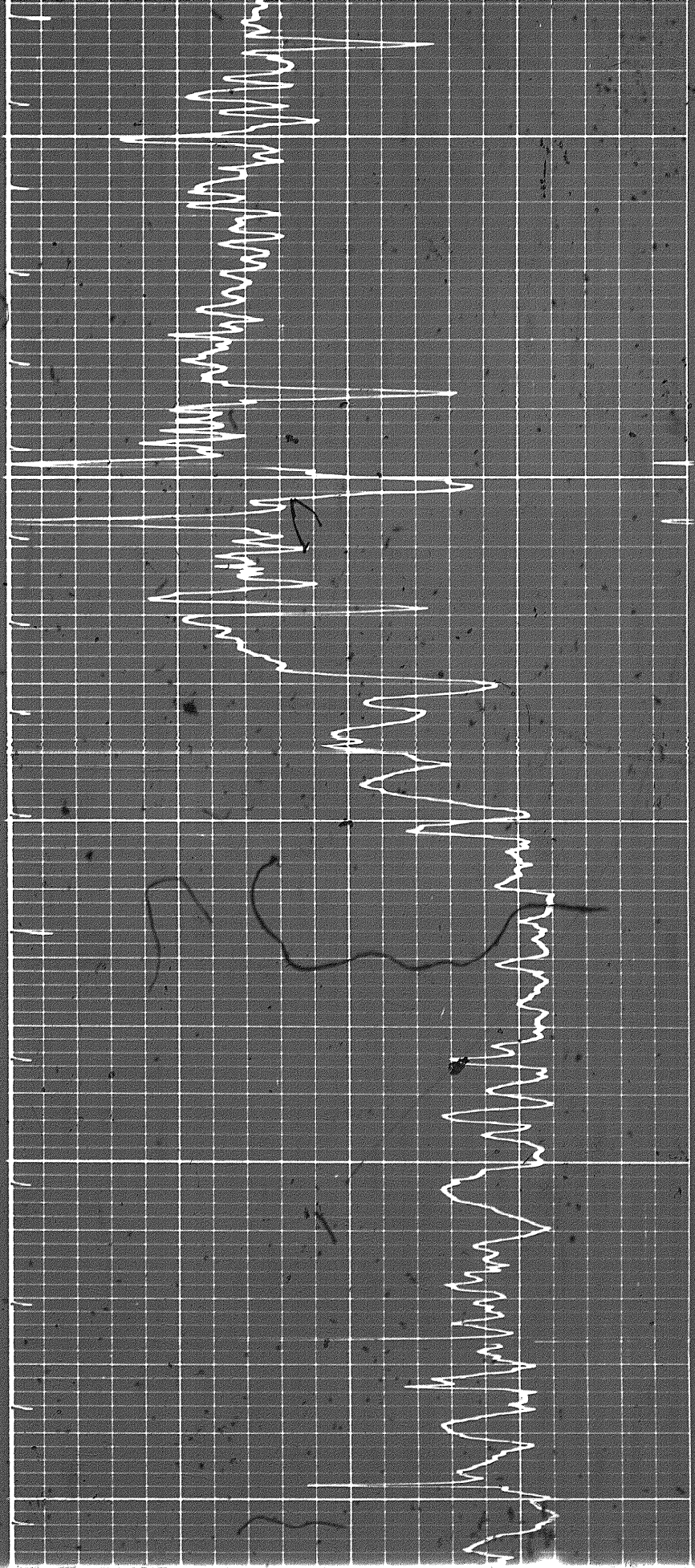
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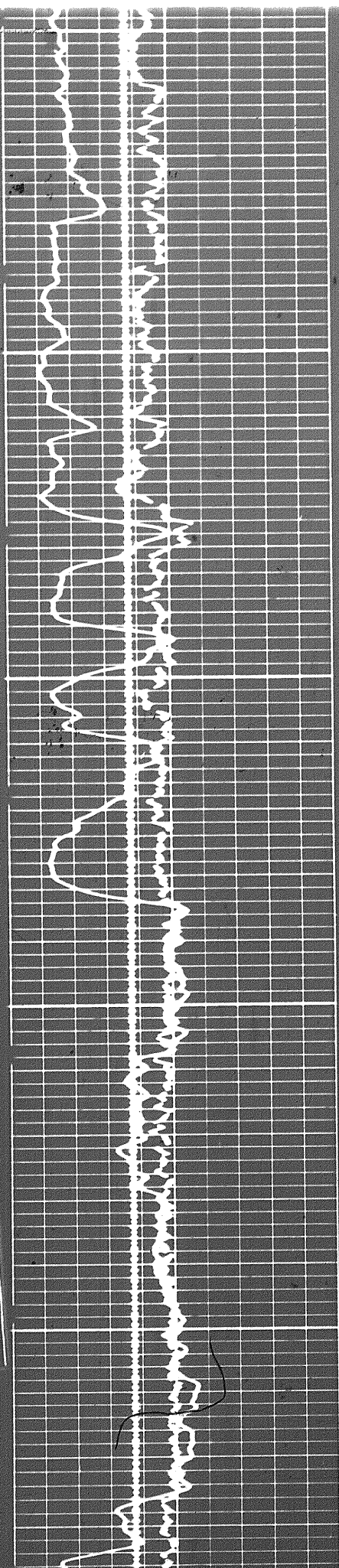
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6009

6005

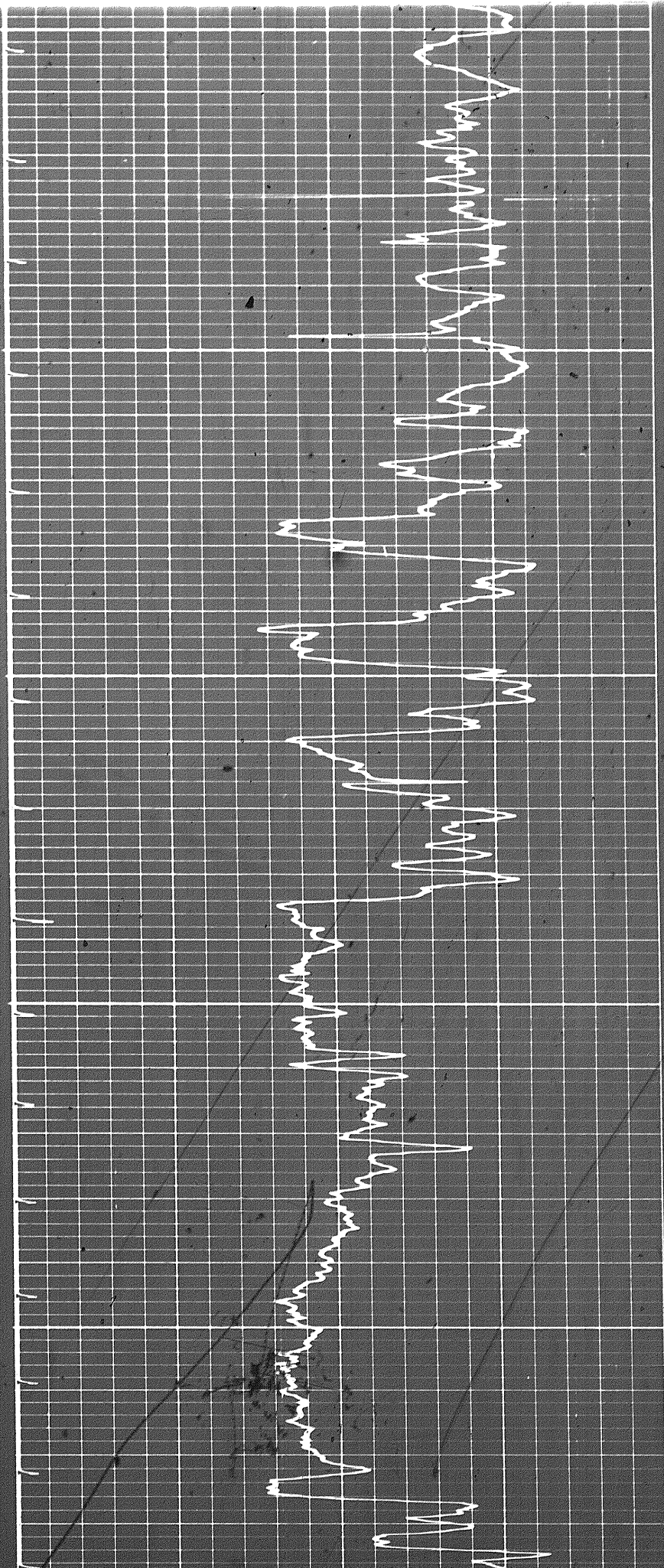


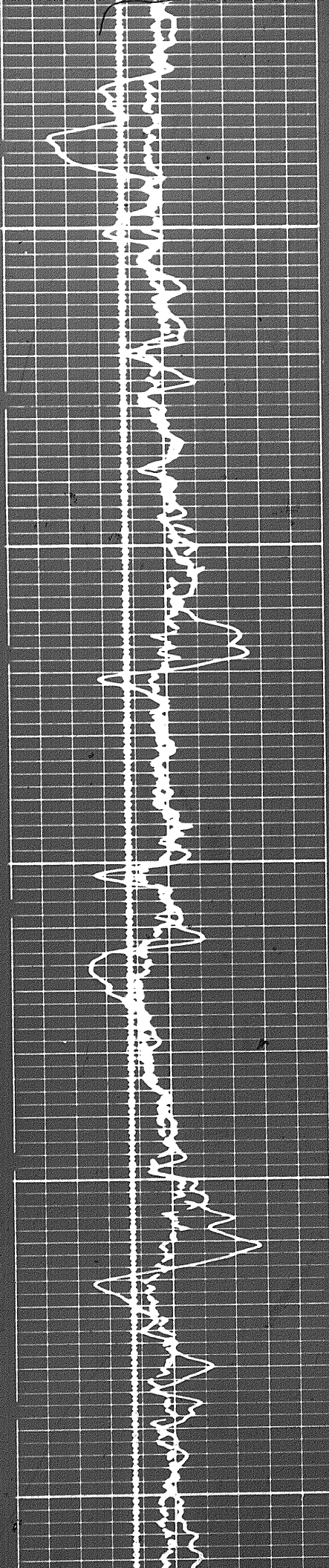
1961



6200

6200

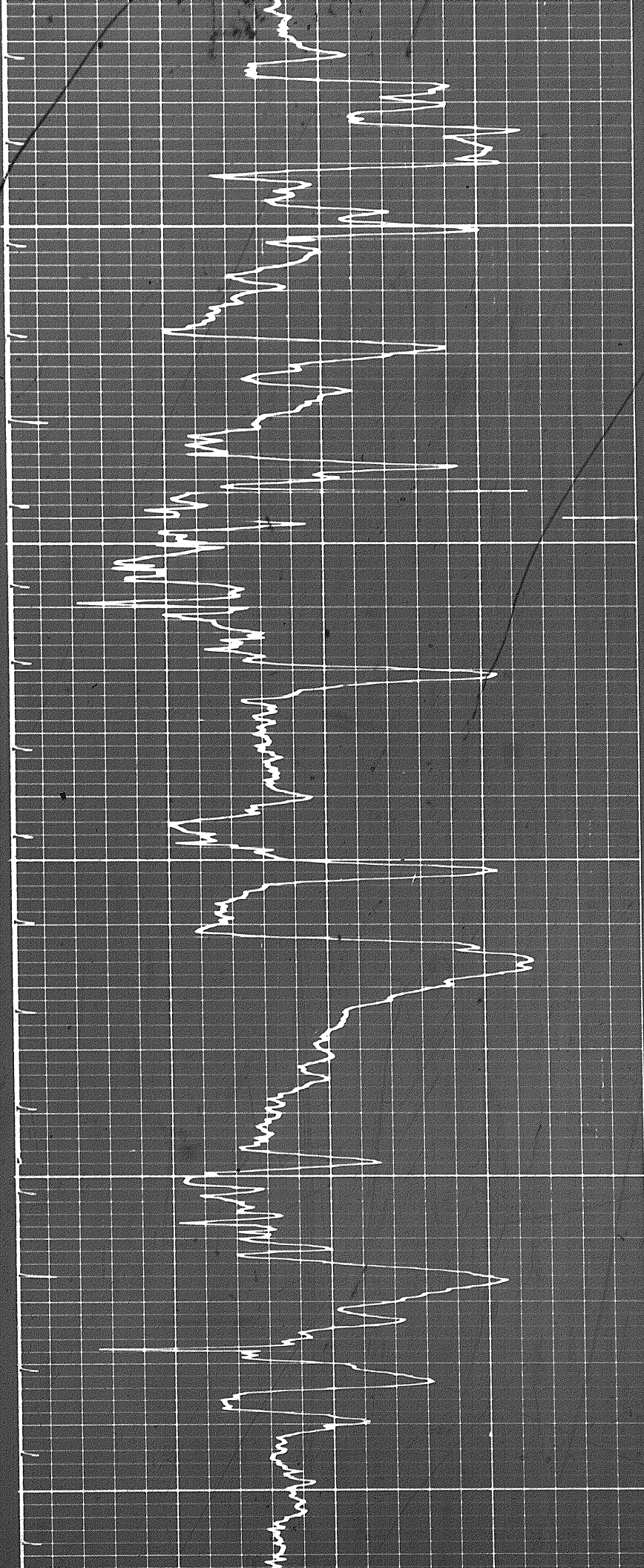


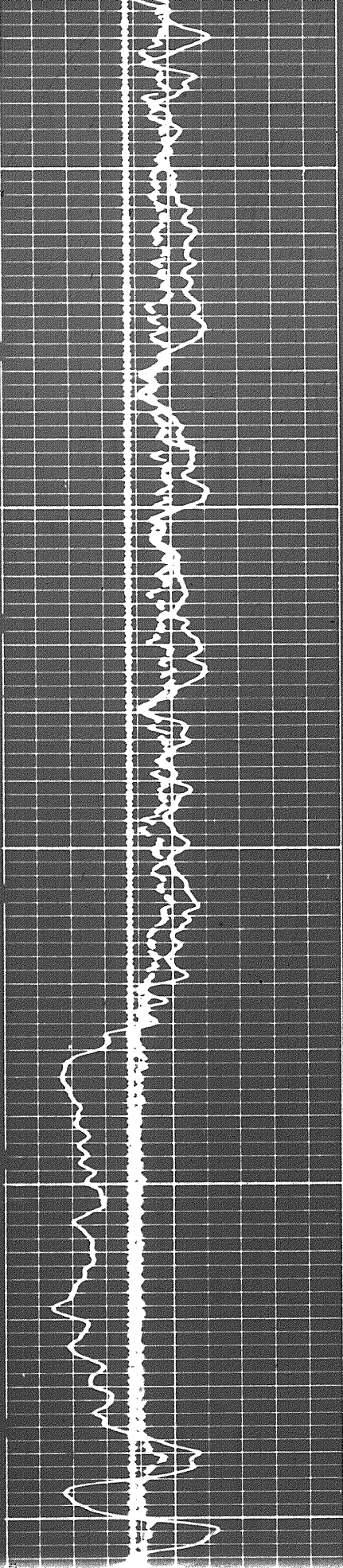


6300

6300

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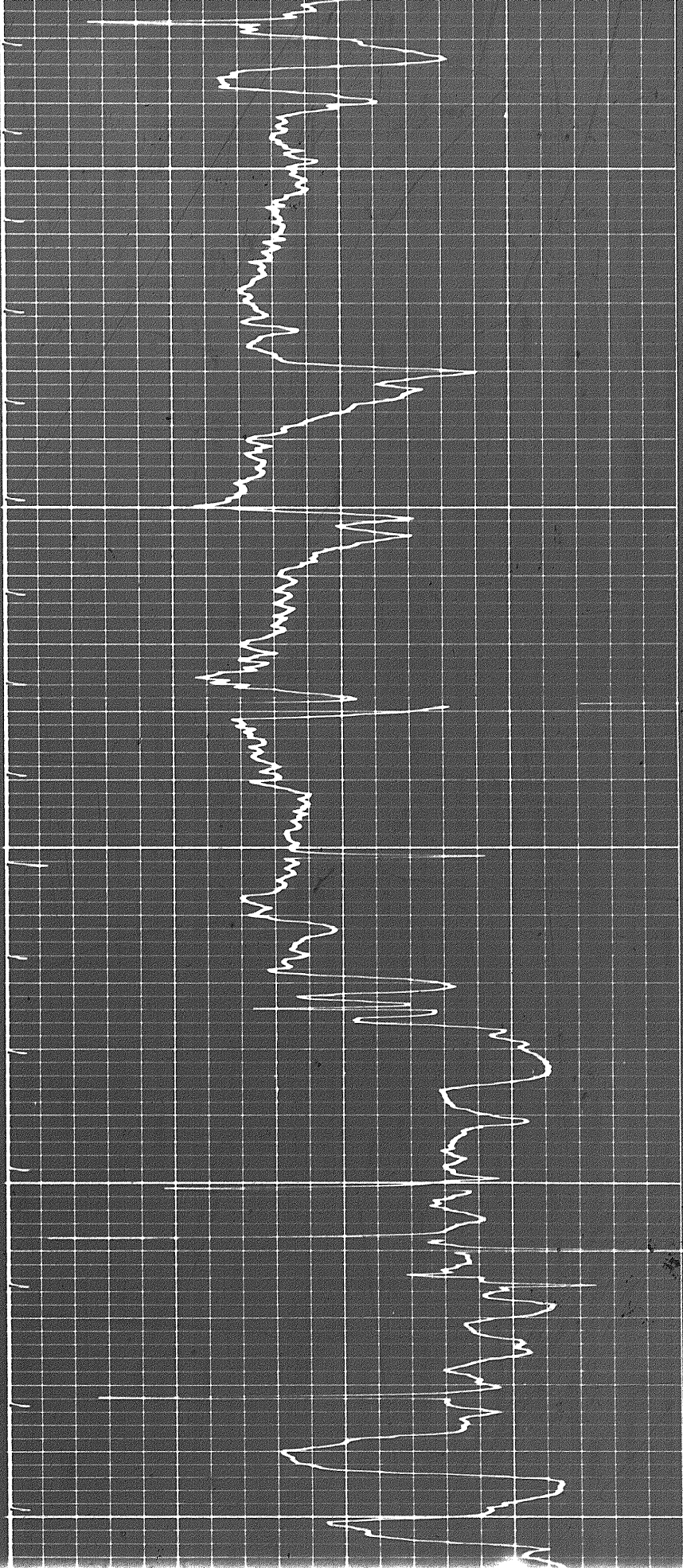




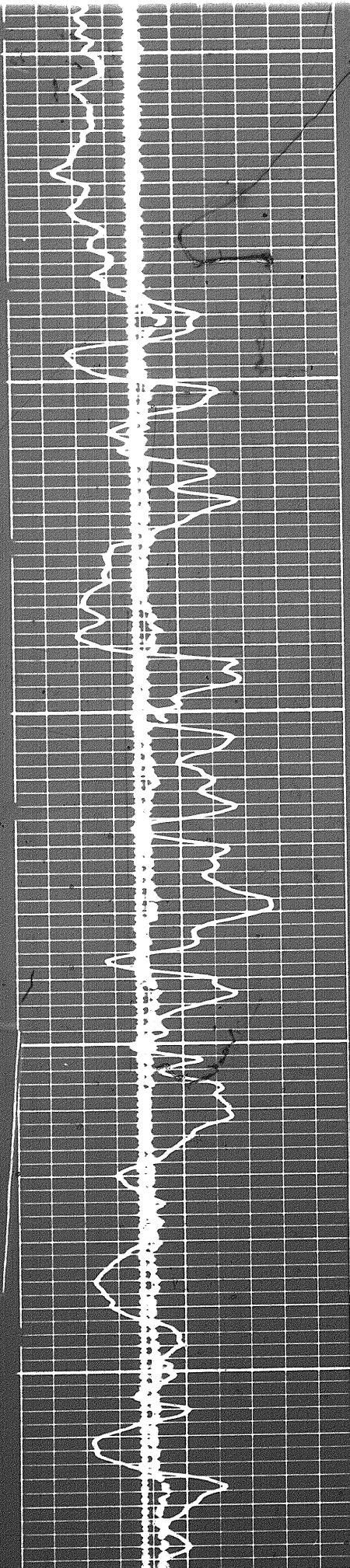
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6600

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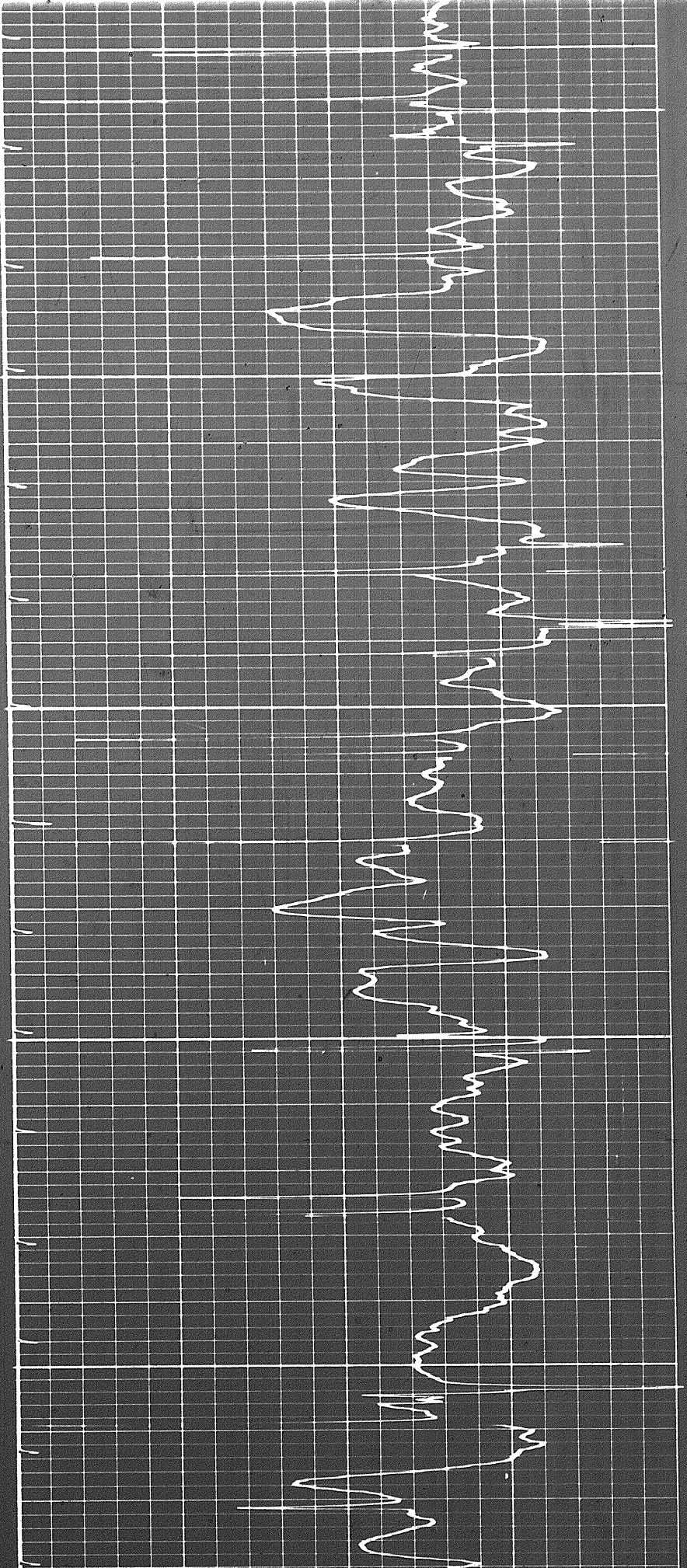


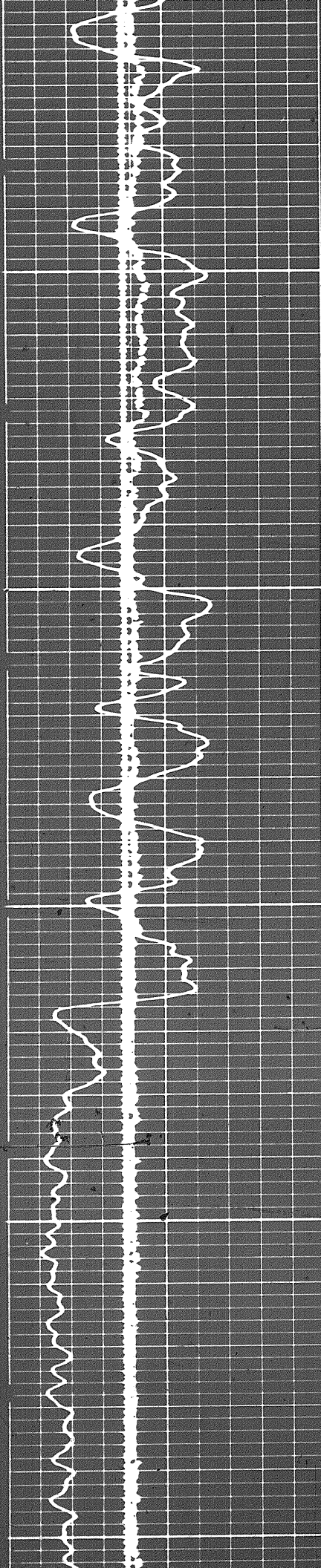
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6700

6300

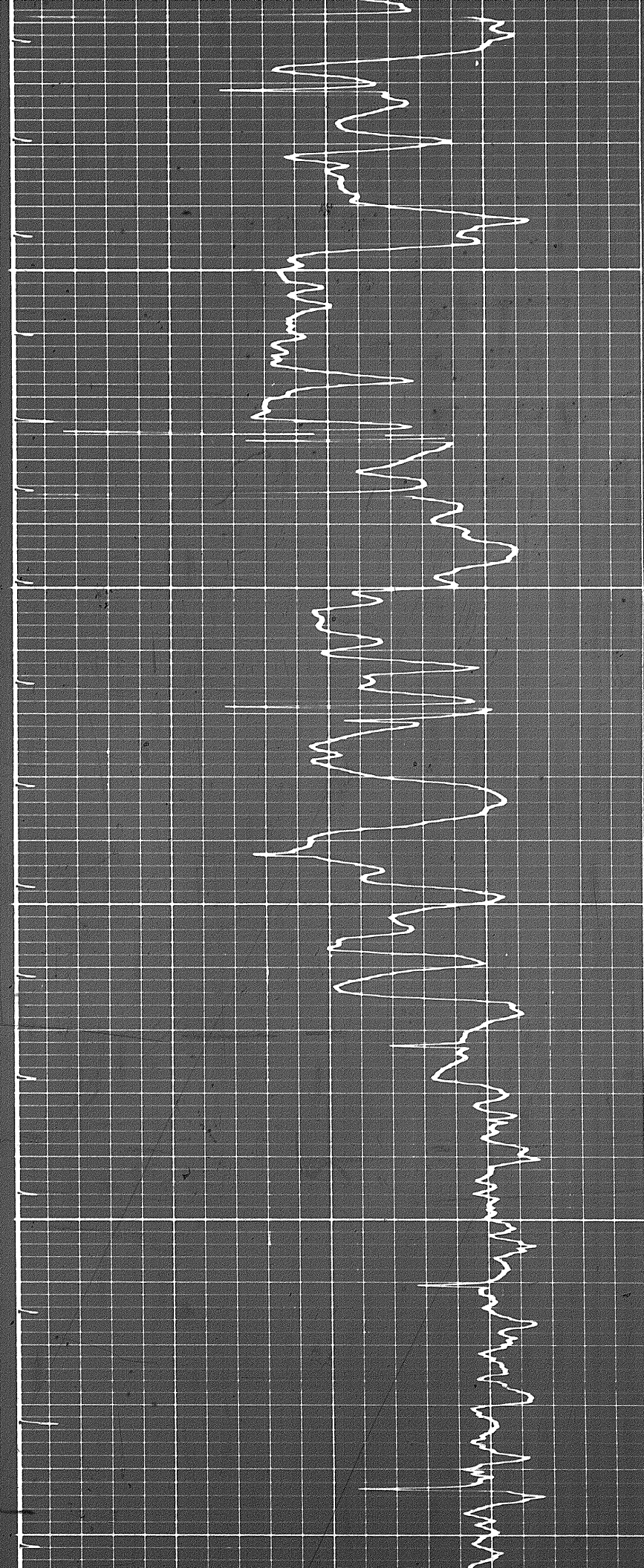


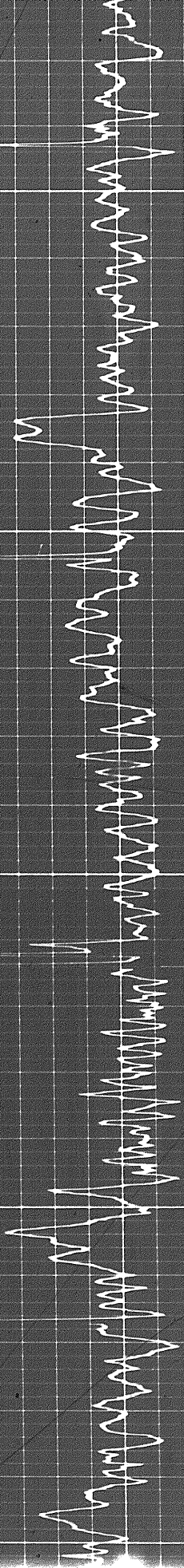


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7000

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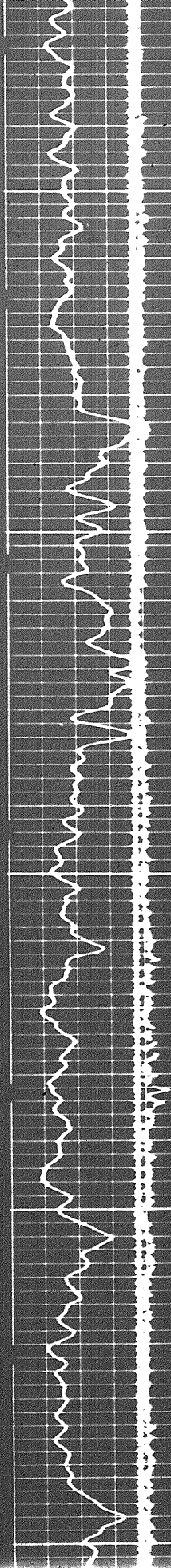




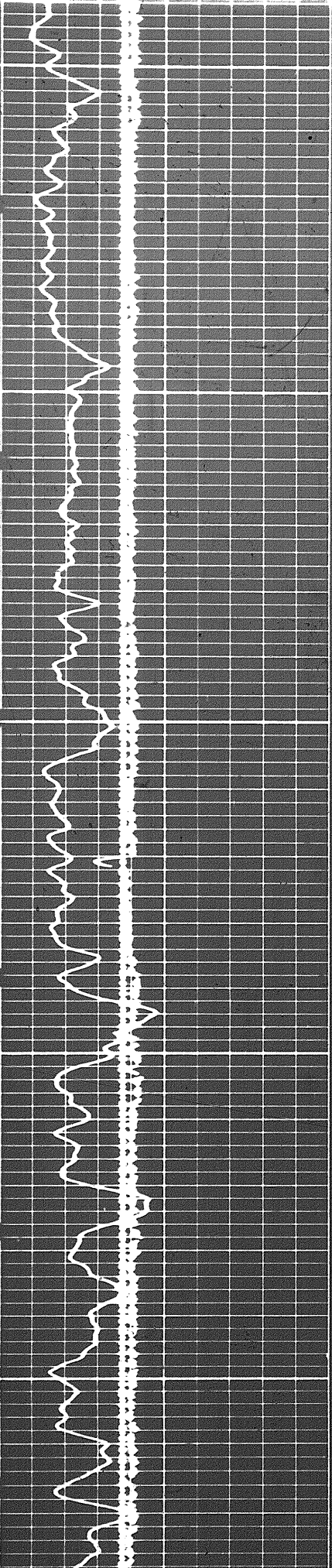
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7200

7300

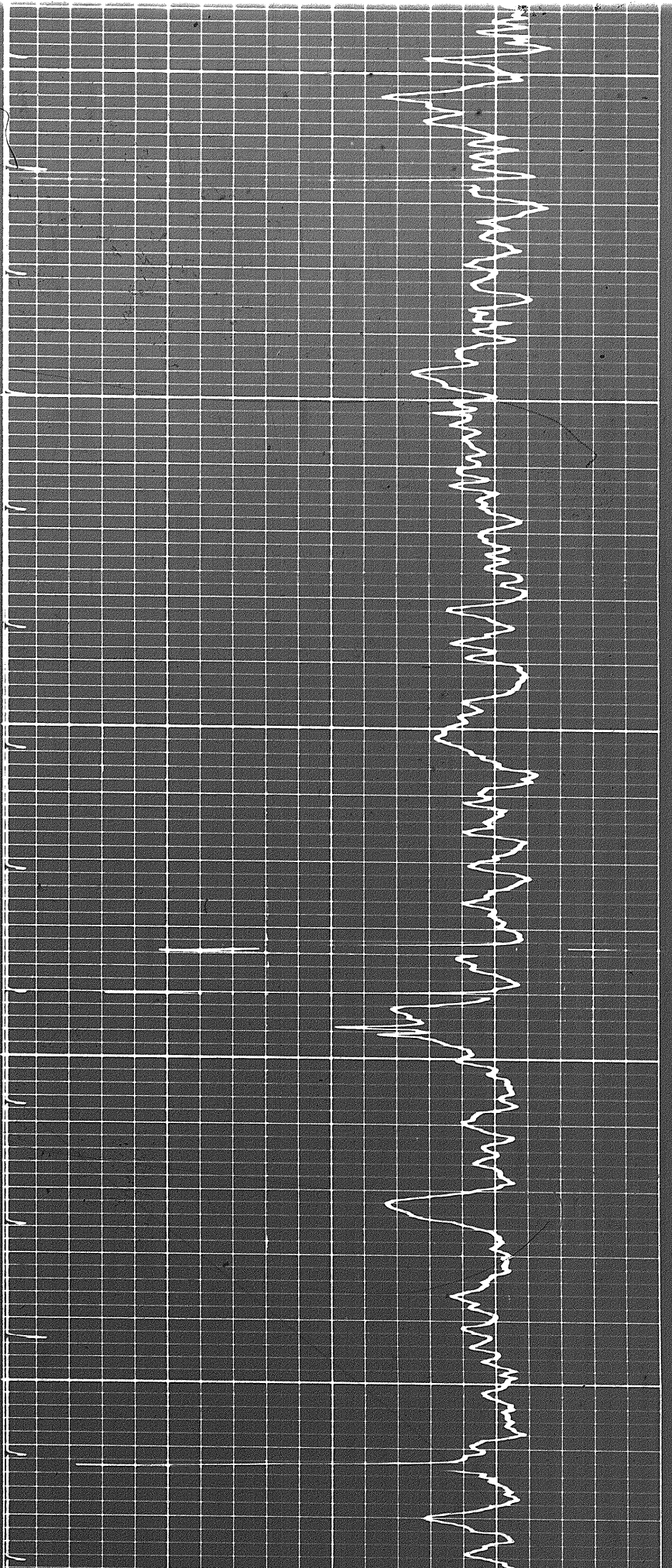


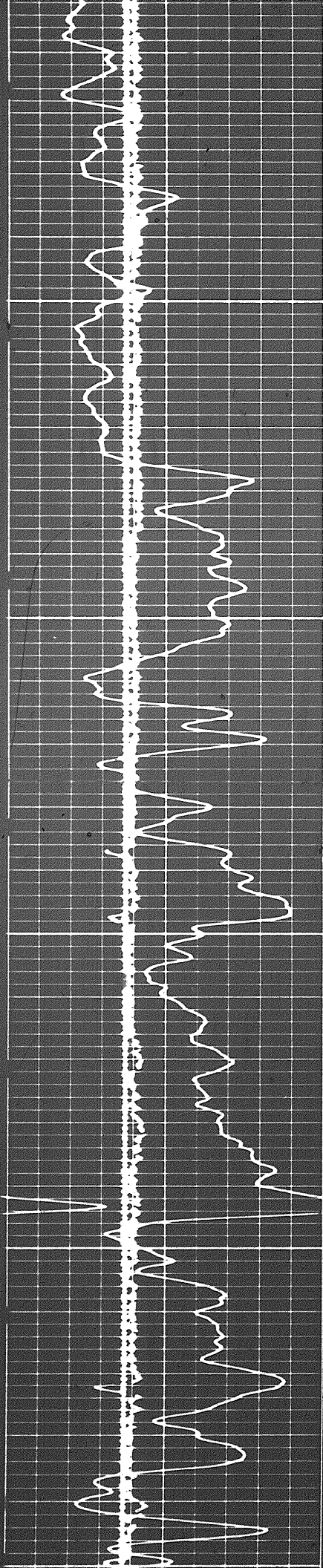
21 of



7300

7400

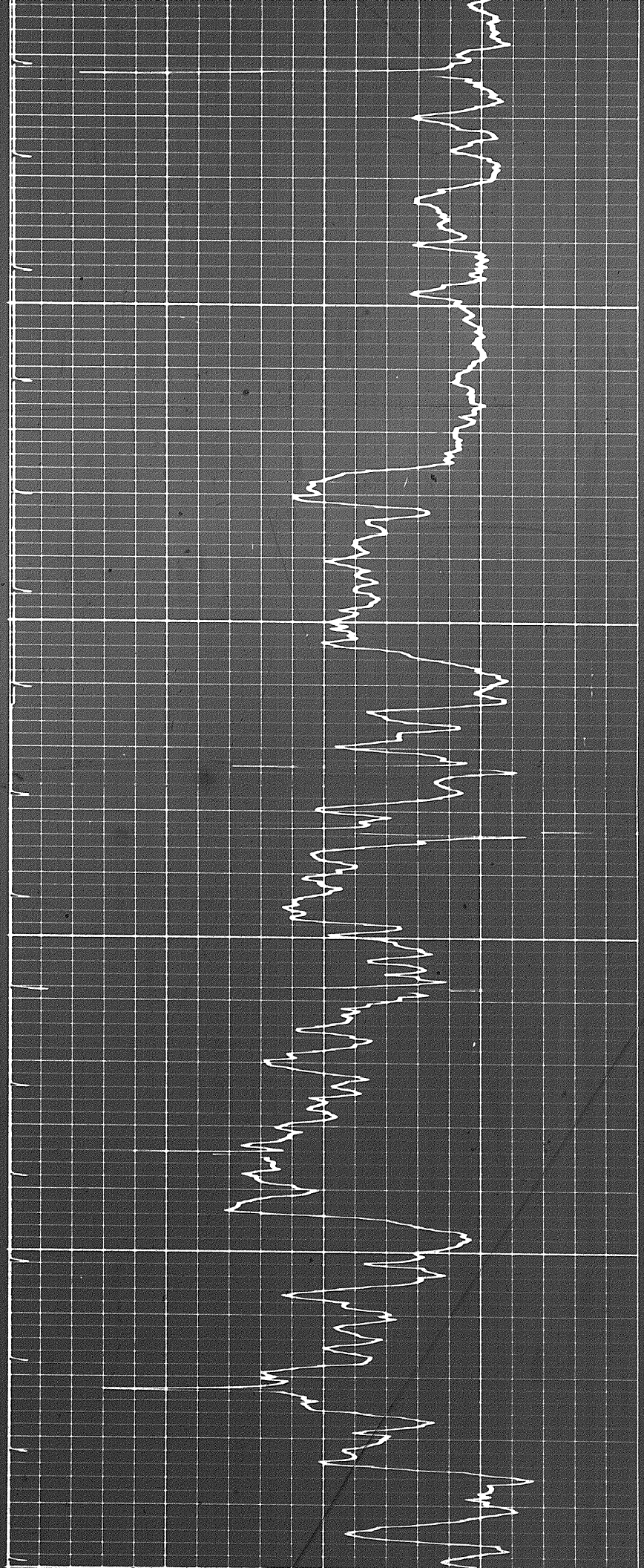


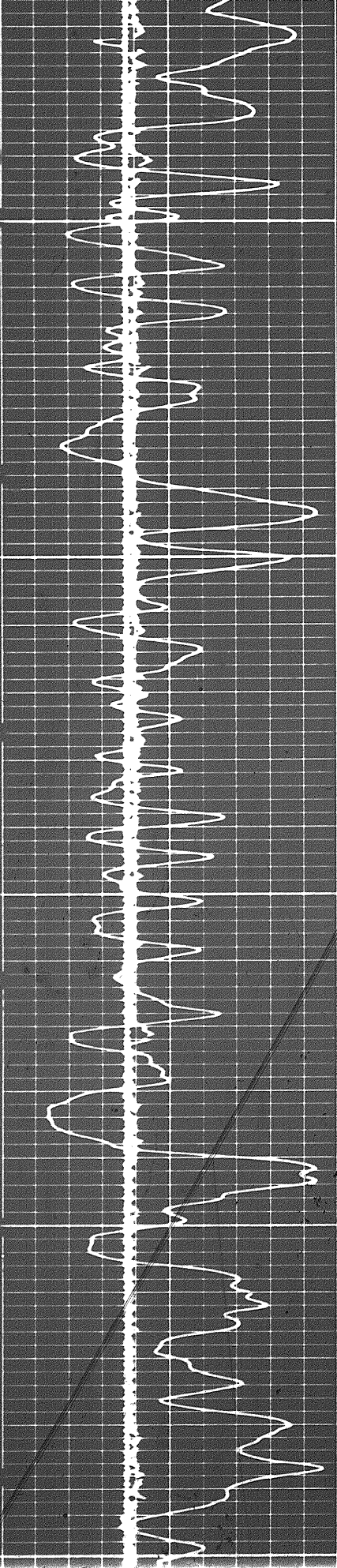


7500

7600

77

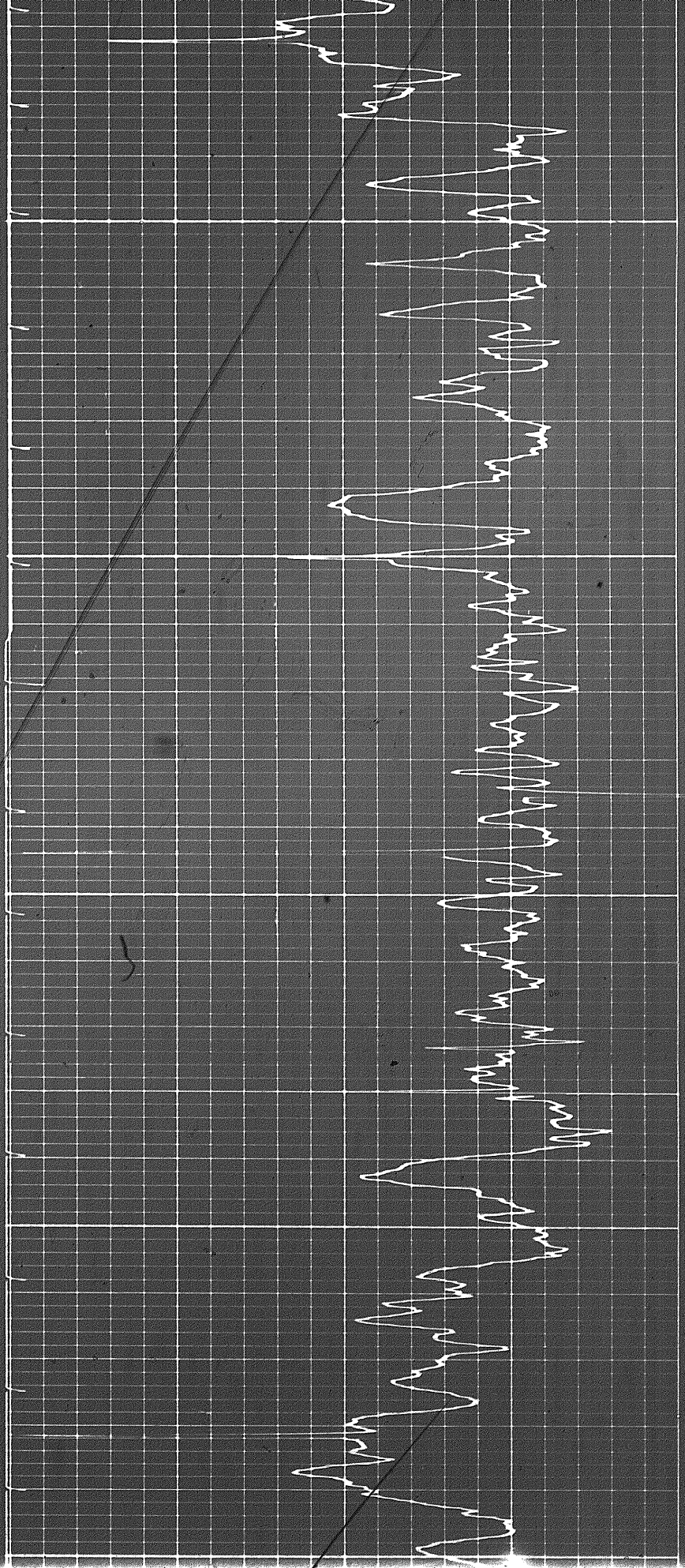




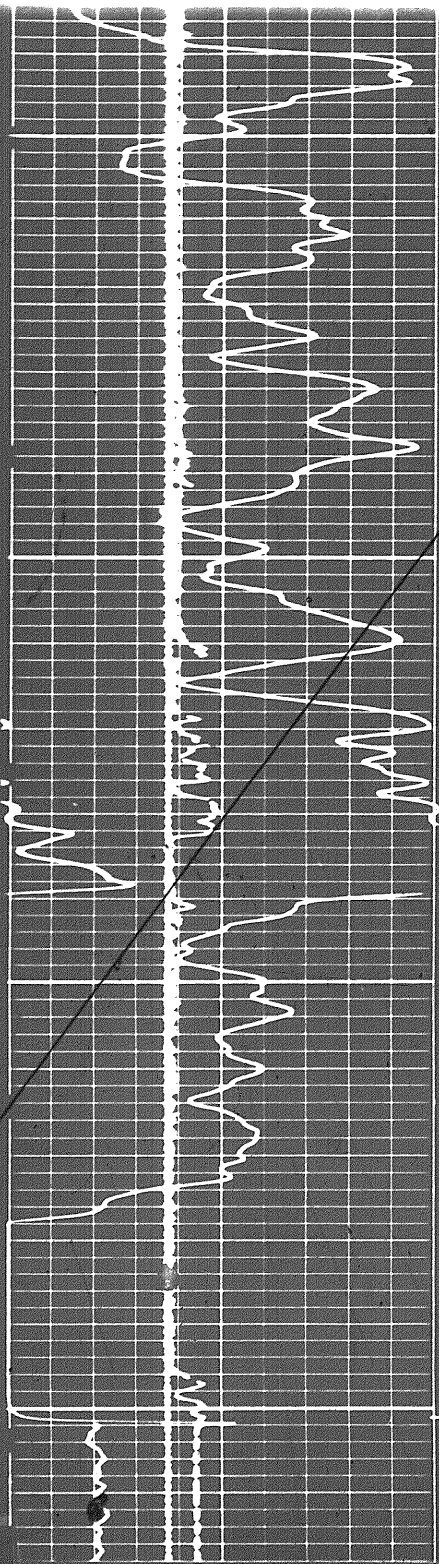
7700

7800

7900

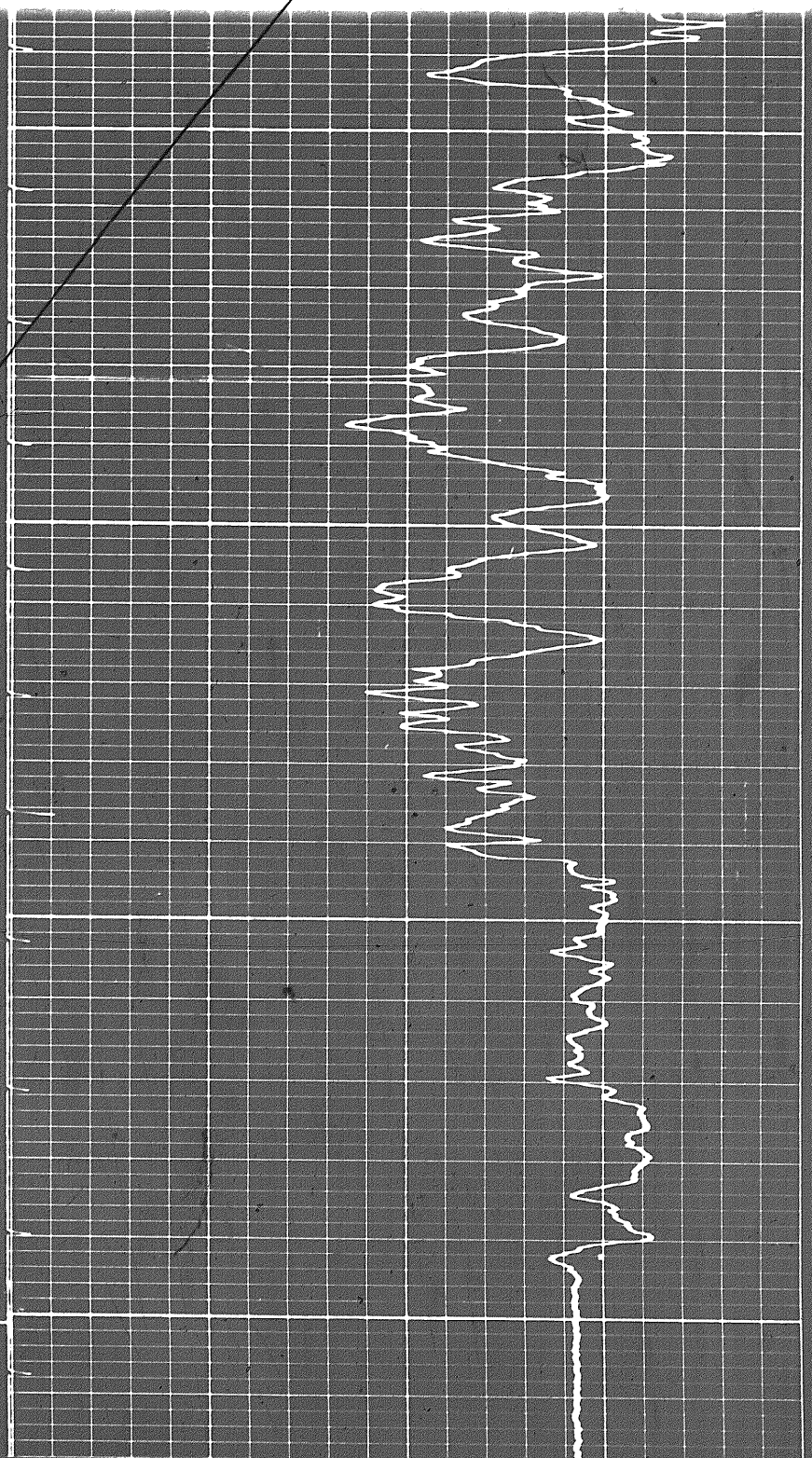


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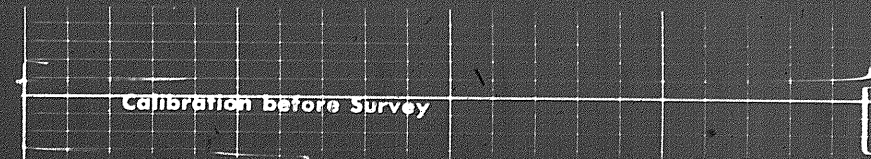
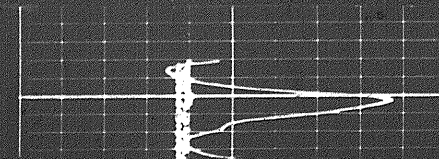
7300

FR 0000

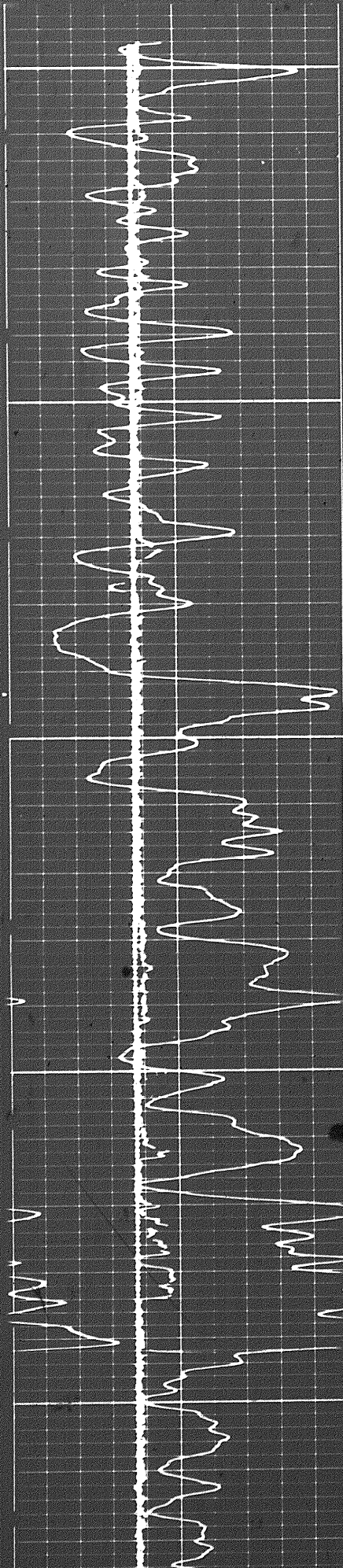


REPEAT SECTION

Calibration before Survey

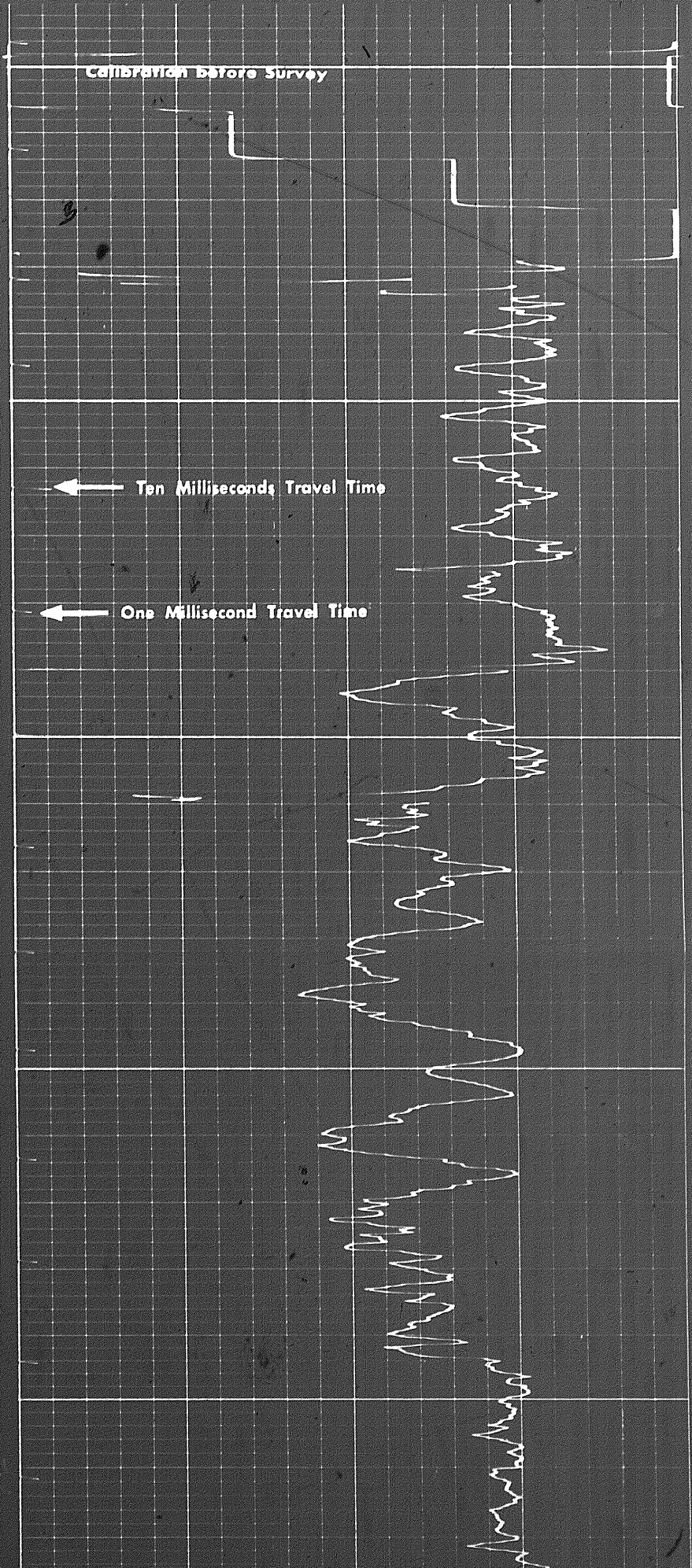


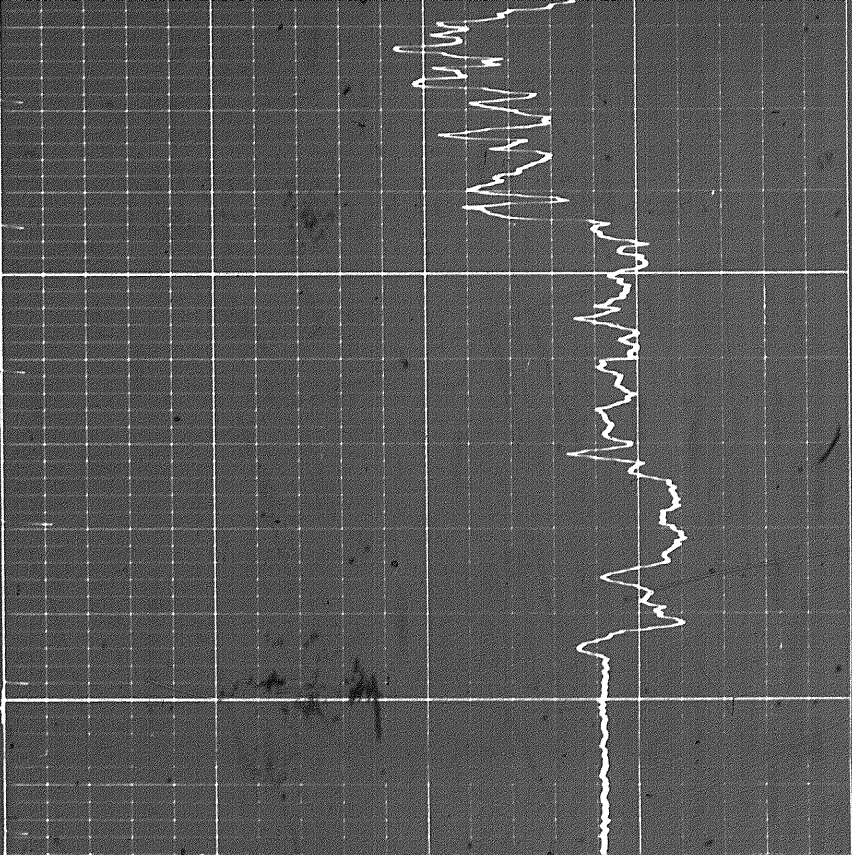
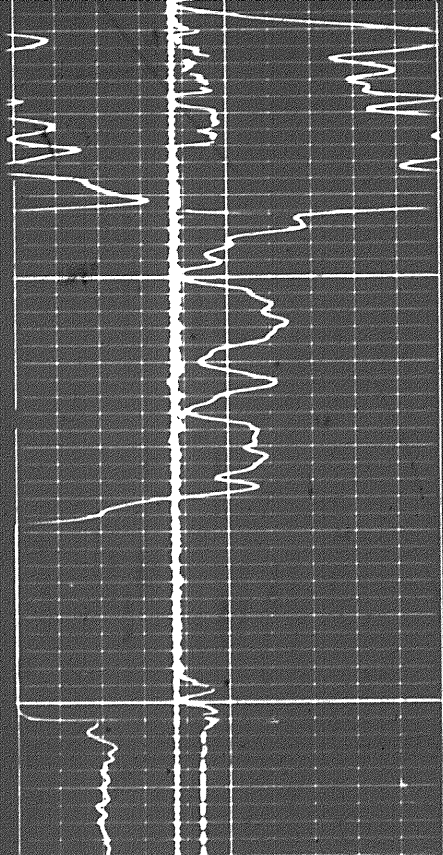
REPEAT SECTION



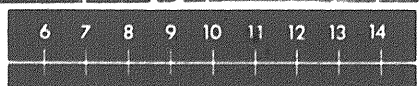
7800

7900



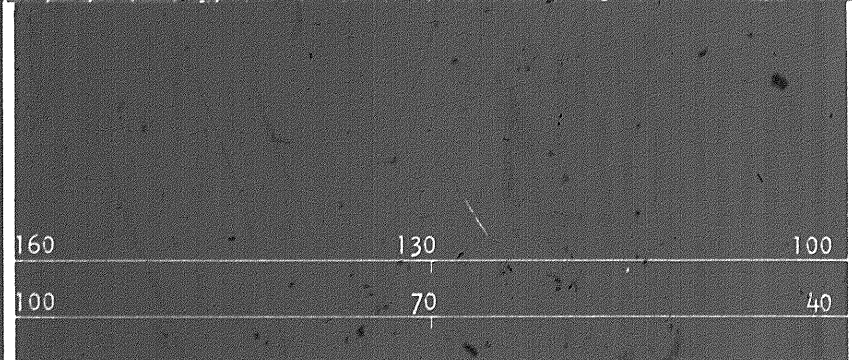


FR 0008



CALIPER
hole diameter in inches

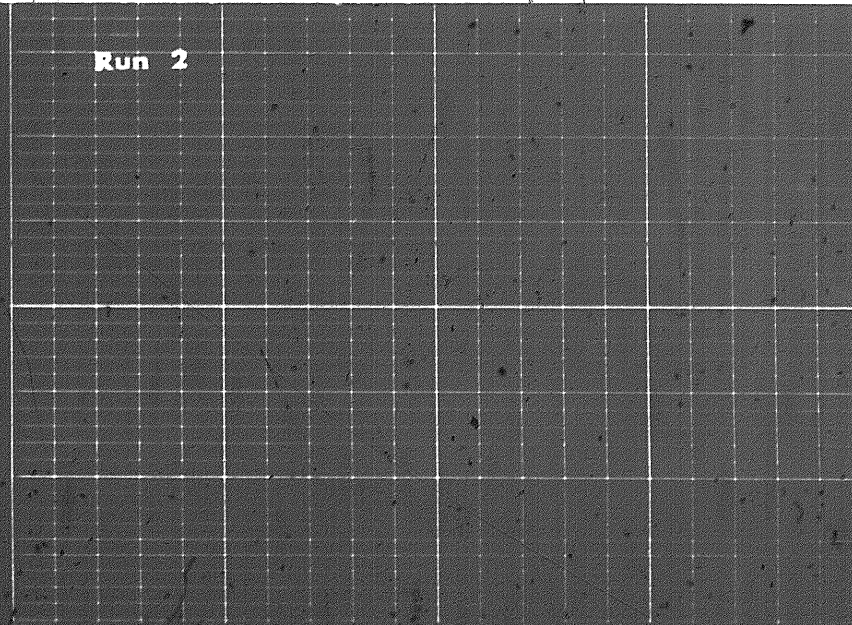
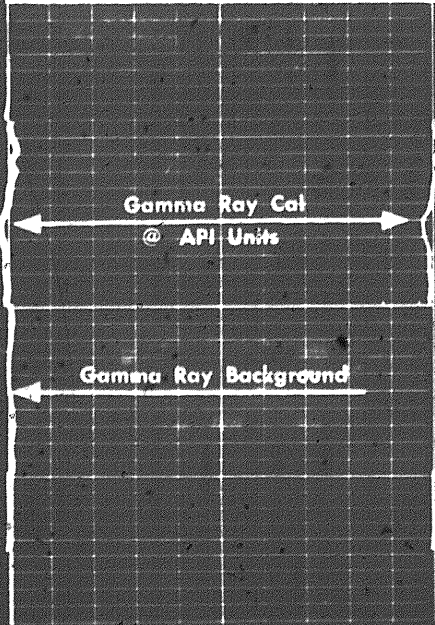
Sens. 150 T.C. 2
Zero 0 div. to left
0 150
150 300



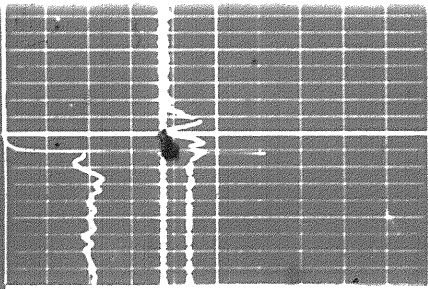
GAMMA RAY
API UNITS

DEPTH

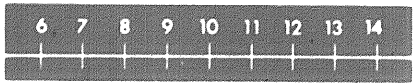
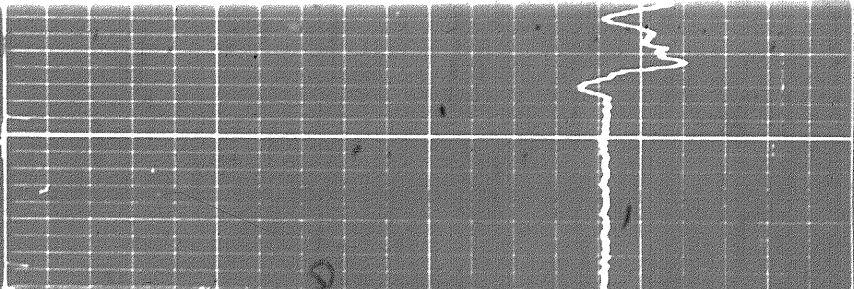
SONIC
INTERVAL TRANSIT TIME
microseconds per foot



Run 2



FR
0008



CALIPER
hole diameter in inches

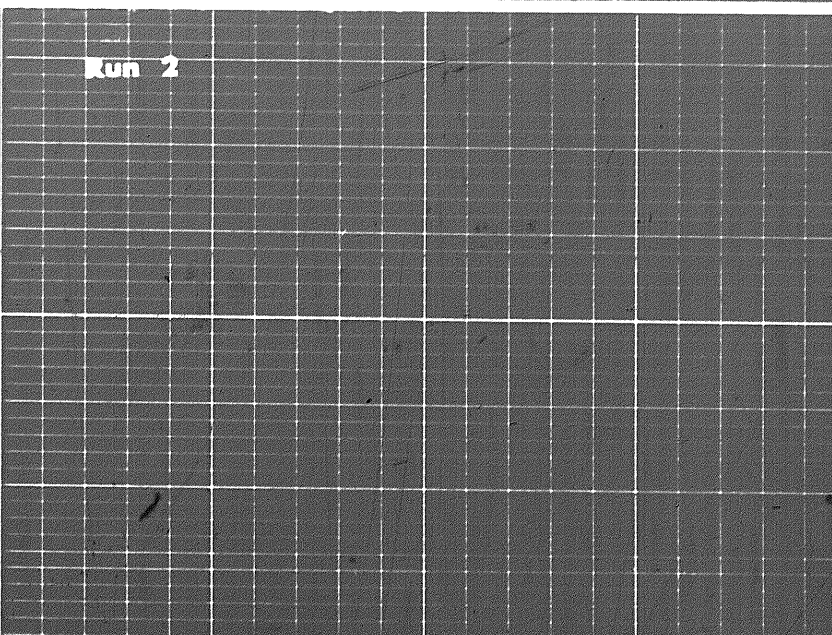
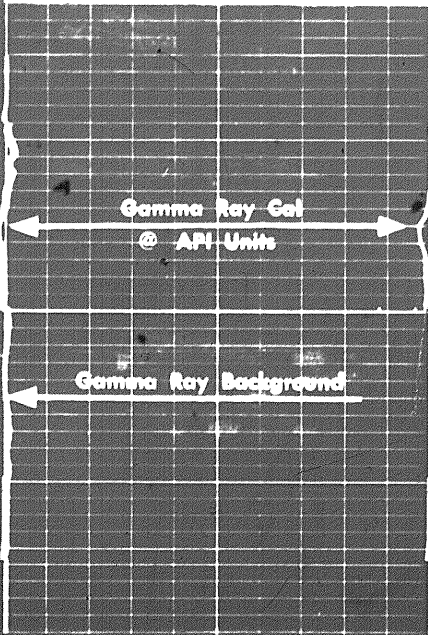
Speed in FPM
Sens. 150 T.C. 2
Zero 0 div. to left
150
150 300

160 130 100
100 70 40

GAMMA RAY
API UNITS

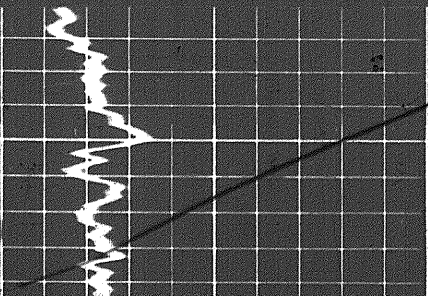
DEPTH

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

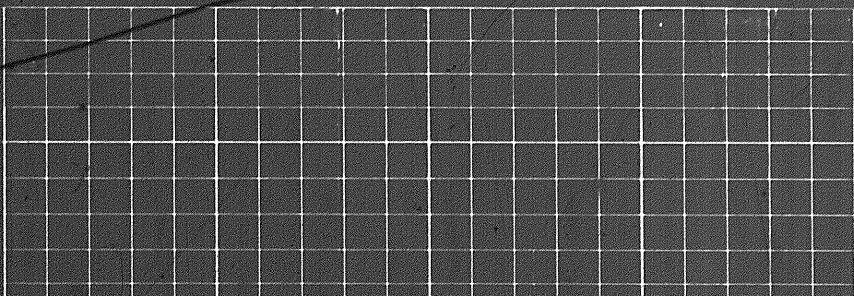


Run 2

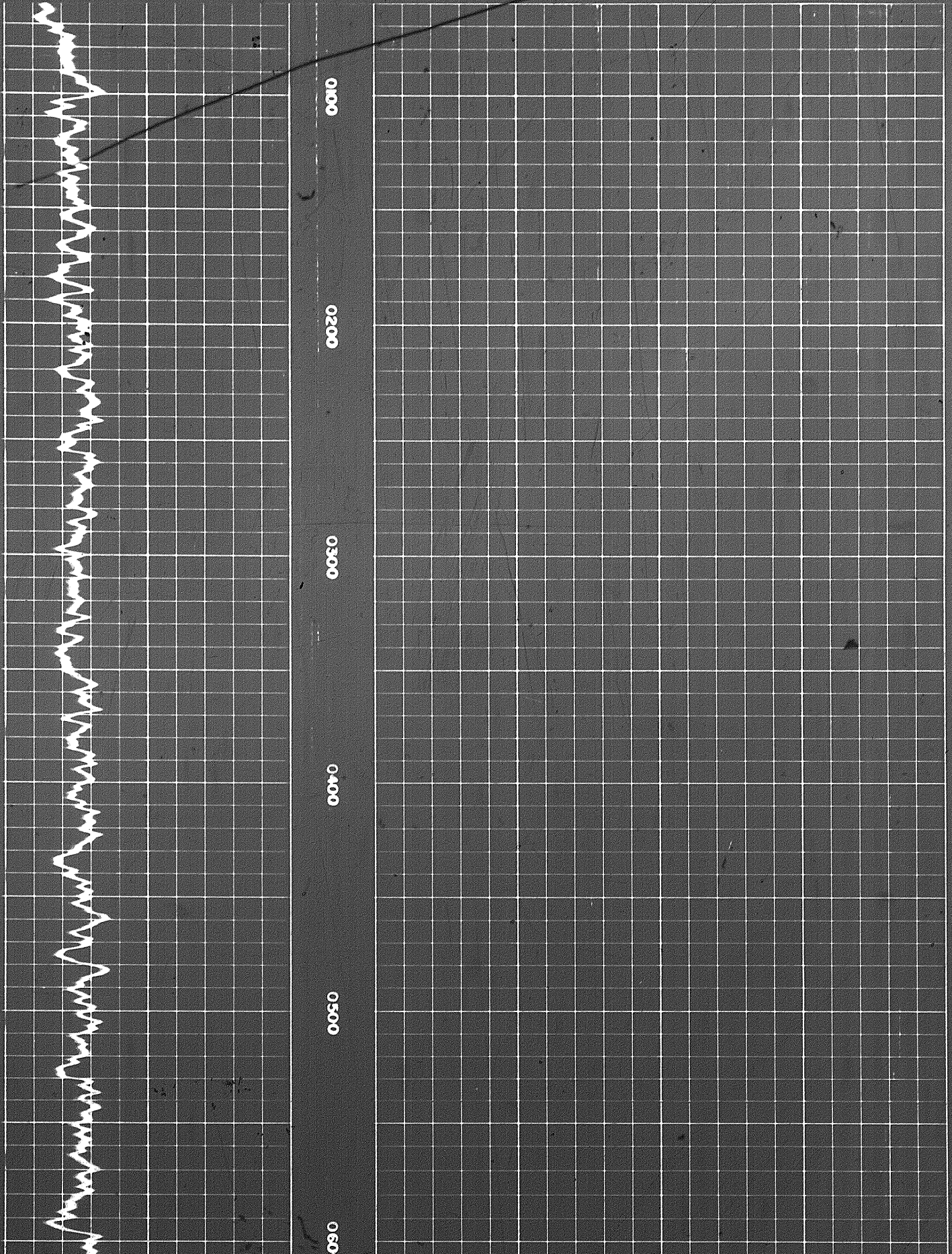
OVERLAP Run 2

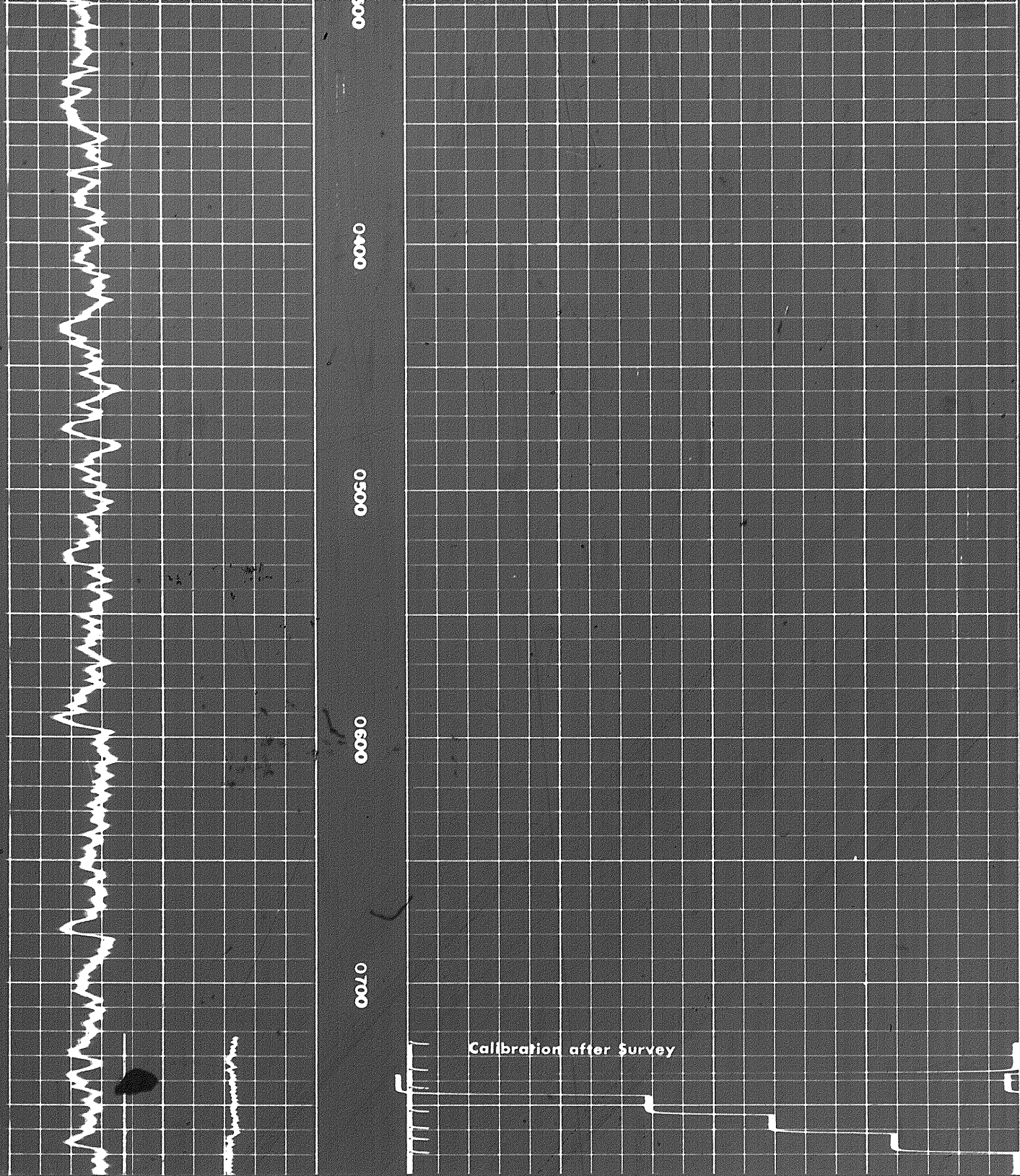


0010



OVERLAP Run 2





COMPANY CHEVRON STANDARD LIMITED

WELL SOBC WM E PORCUPINE YT 1-13

FIELD WILDCAT PROVINCE YUKON TERRITORIES

SCHLUMBERGER