

FOLD HERE

The well name, location and borehole reference data were furnished by the customer.

Preceding fluid \_\_\_\_\_ Volume \_\_\_\_\_ bbls. Pipe reciprocated during Pumping: Yes \_\_\_\_\_ No \_\_\_\_\_  
 Cement pumped \_\_\_\_\_ bbls./minute Pipe reciprocated after plug down: Yes \_\_\_\_\_ min, No \_\_\_\_\_

Preceding fluid \_\_\_\_\_ Volume \_\_\_\_\_ bbls. Pipe reciprocated during Pumping: Yes \_\_\_\_\_ No \_\_\_\_\_  
 Cement pumped \_\_\_\_\_ bbls./minute Pipe reciprocated after plug down: Yes \_\_\_\_\_ min, No \_\_\_\_\_

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any pretensions, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

<b>TRANSIT TIME</b> MICROSECONDS <u>3</u> SPACING 400 _____ 200		DEPTH	<b>CASING BOND</b> MILLIVOLTS 0 _____ 50		<b>VARIABLE DENSITY</b> MICROSECONDS <u>5</u> SPACING 200 _____ 1	
<b>GAMMA RAY</b> API UNITS			<b>AMPLIFIED CASING BOND</b> MILLIVOLTS			



**TRANSIT TIME**  
MICROSECONDS 3 SPACING 200  
400

**GAMMA RAY** API UNITS  
0 100  
100 200

DEPTH

**CASING BOND**  
MILLIVOLTS  
0 50

**AMPLIFIED CASING BOND**  
MILLIVOLTS  
50 100

**VARIABLE DENSITY**  
MICROSECONDS 5 SPAC  
200

Casing Collars *Recorded*  
Corrected Depth *Collars*  
*24' 000*

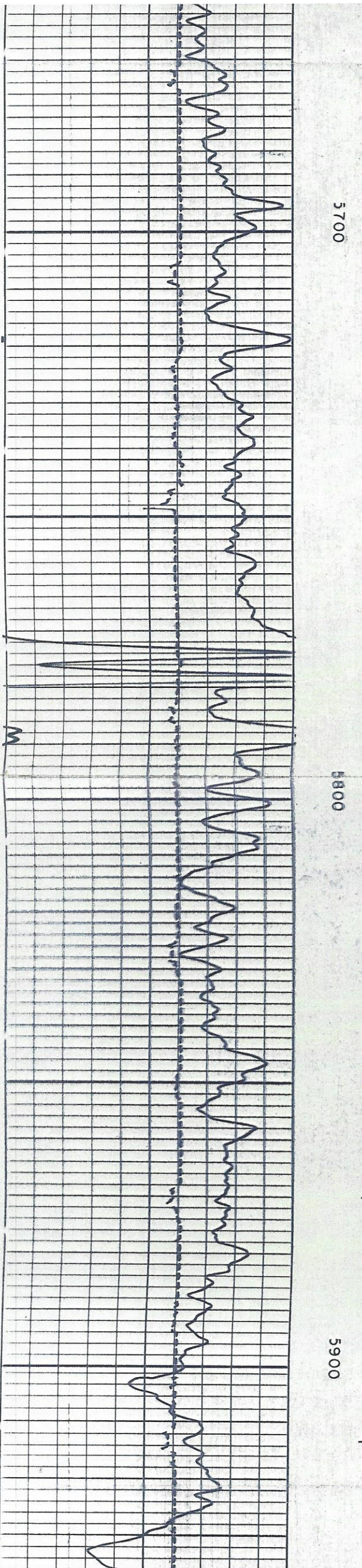
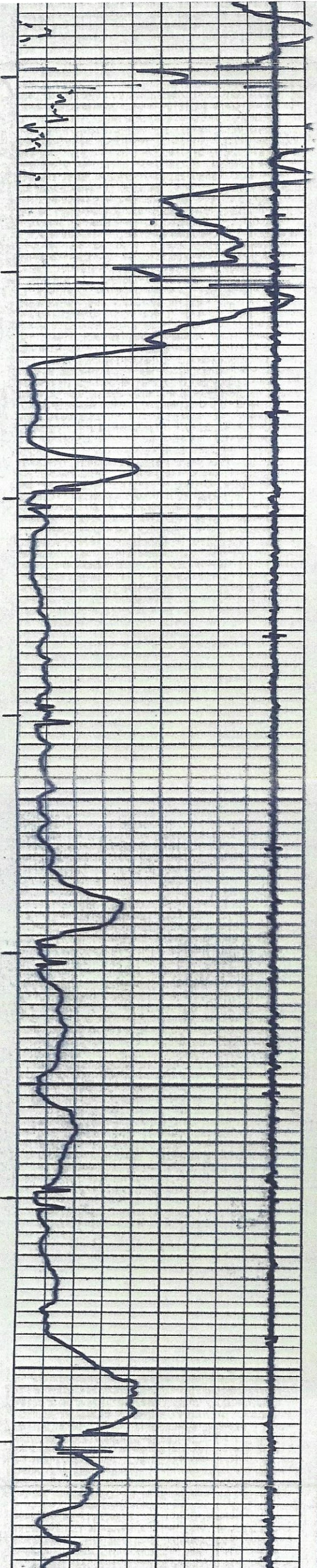
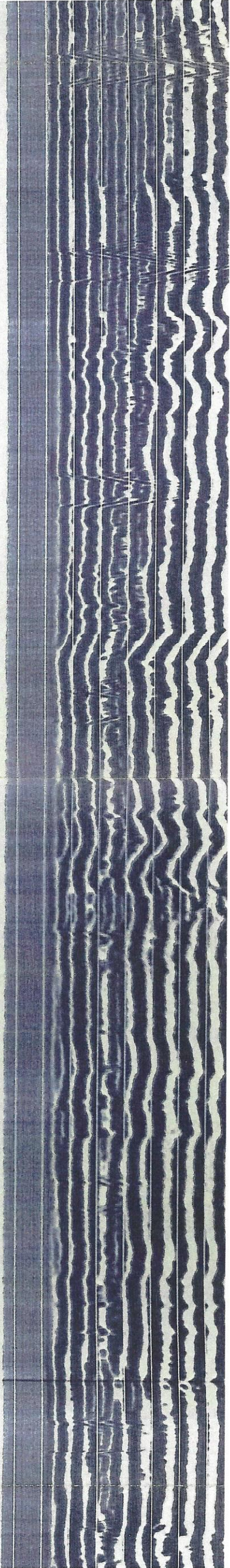
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*1000 PSI*

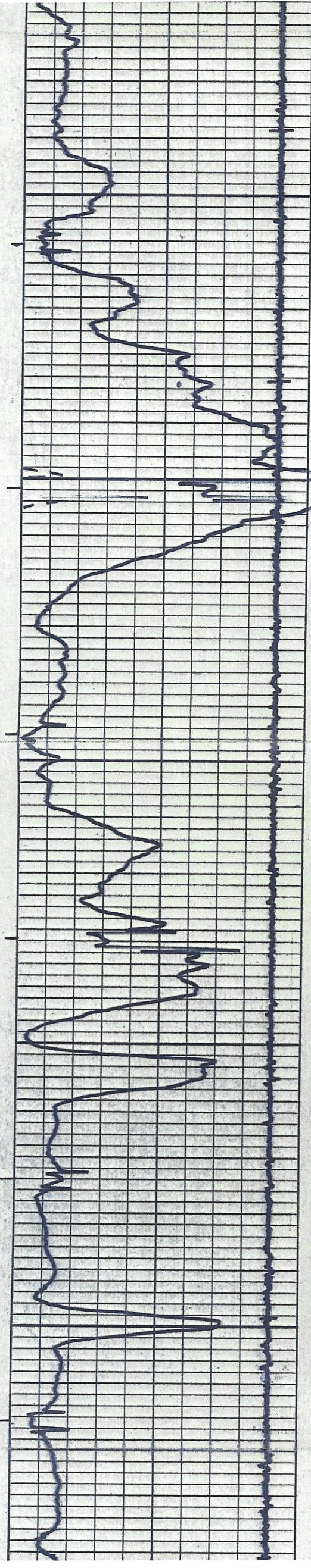
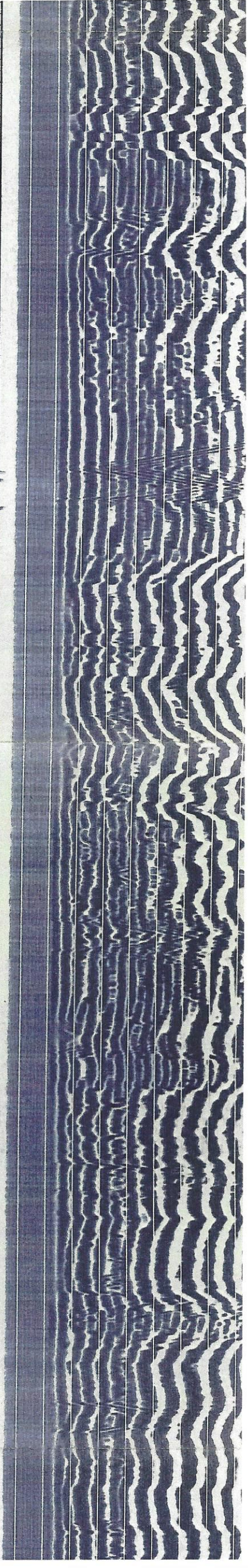
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JT





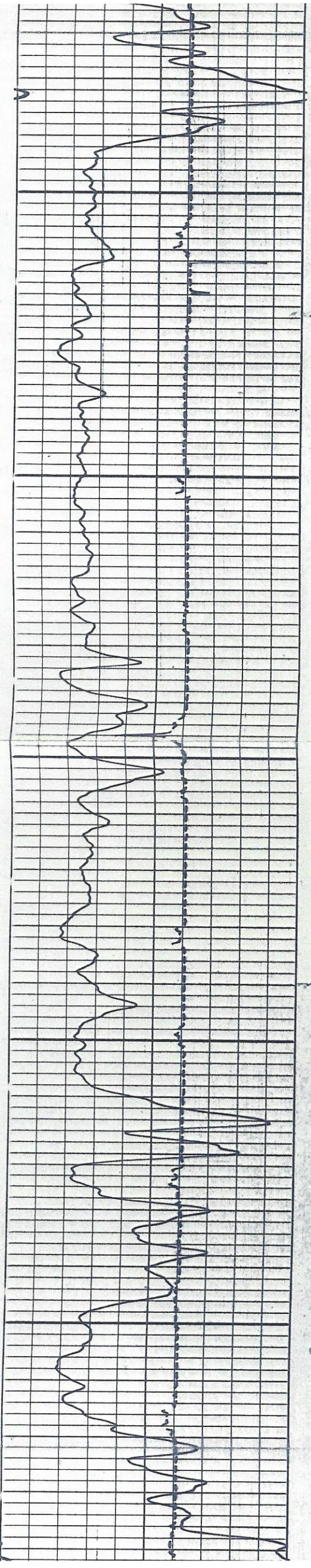




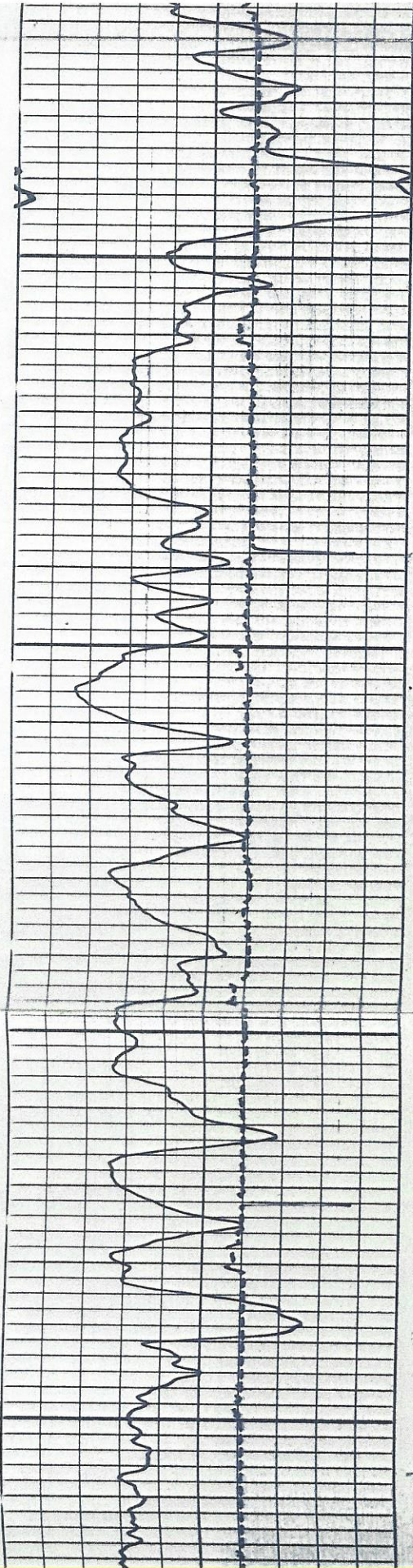
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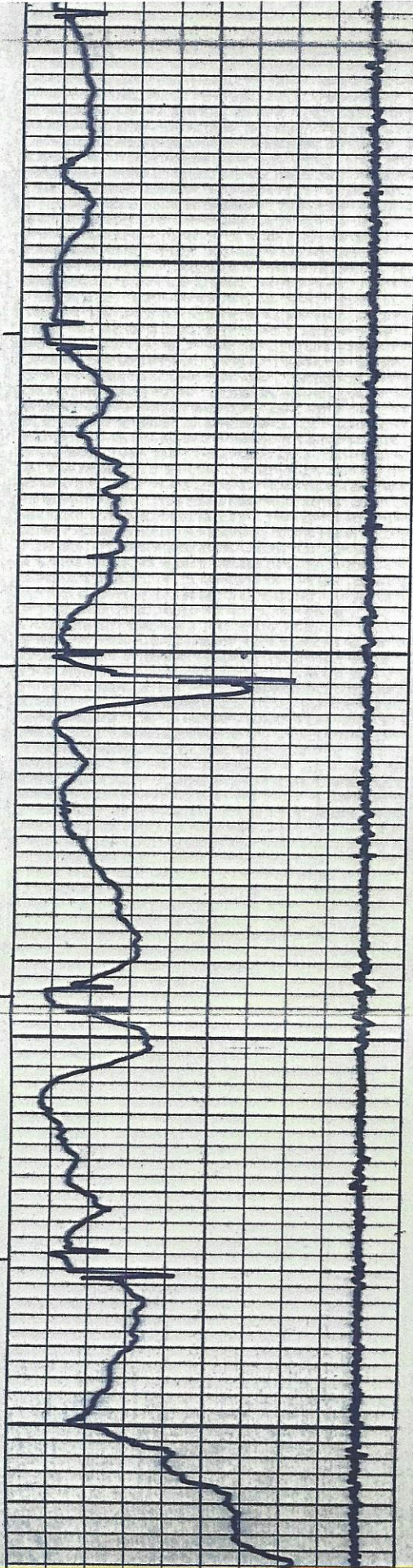
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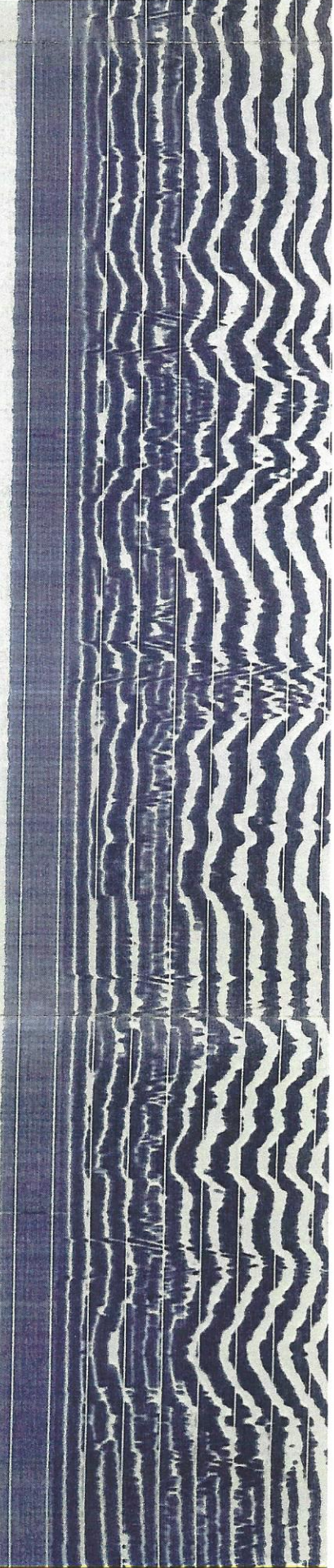




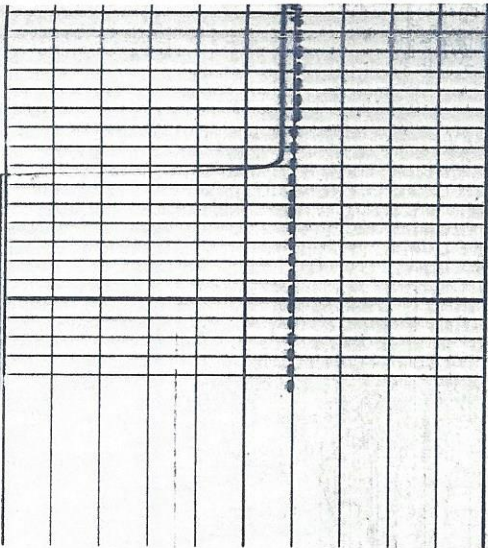
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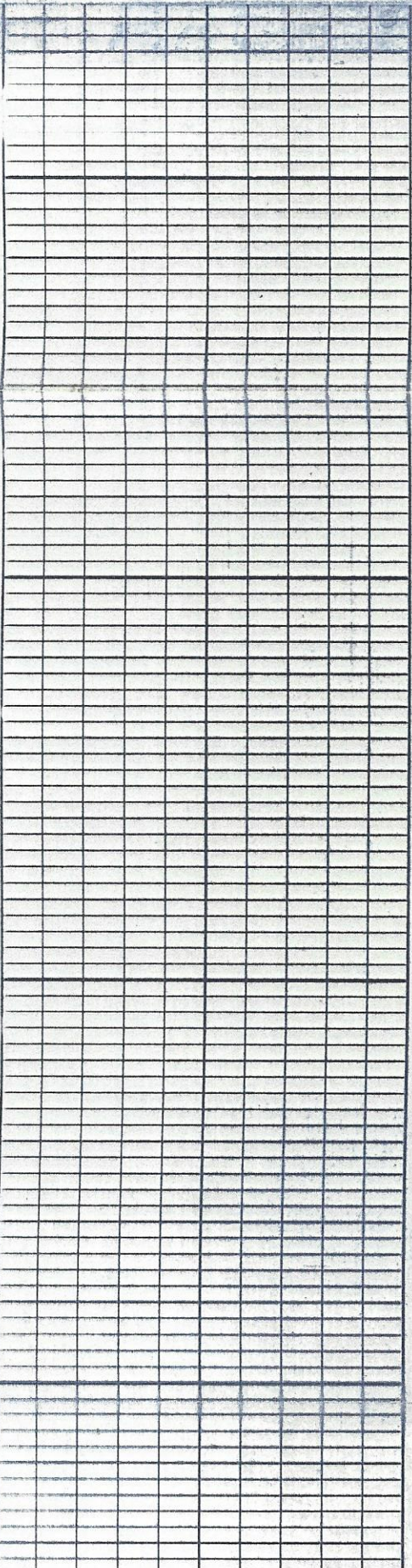
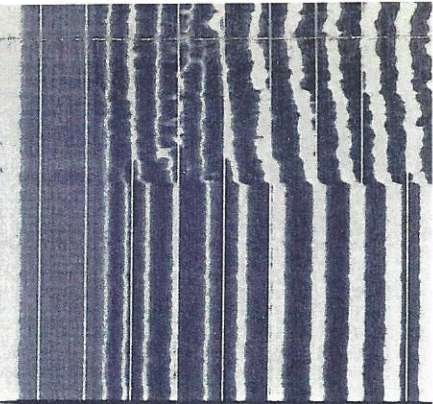
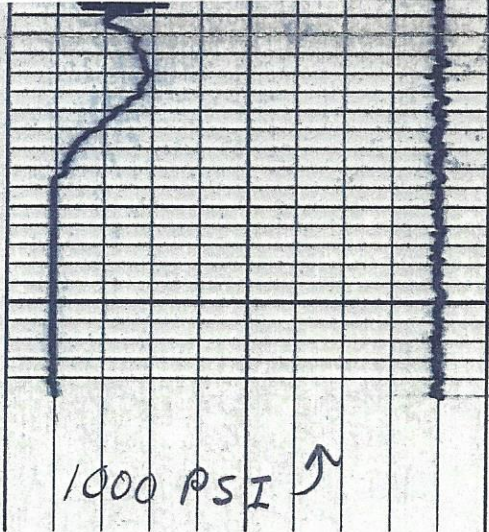
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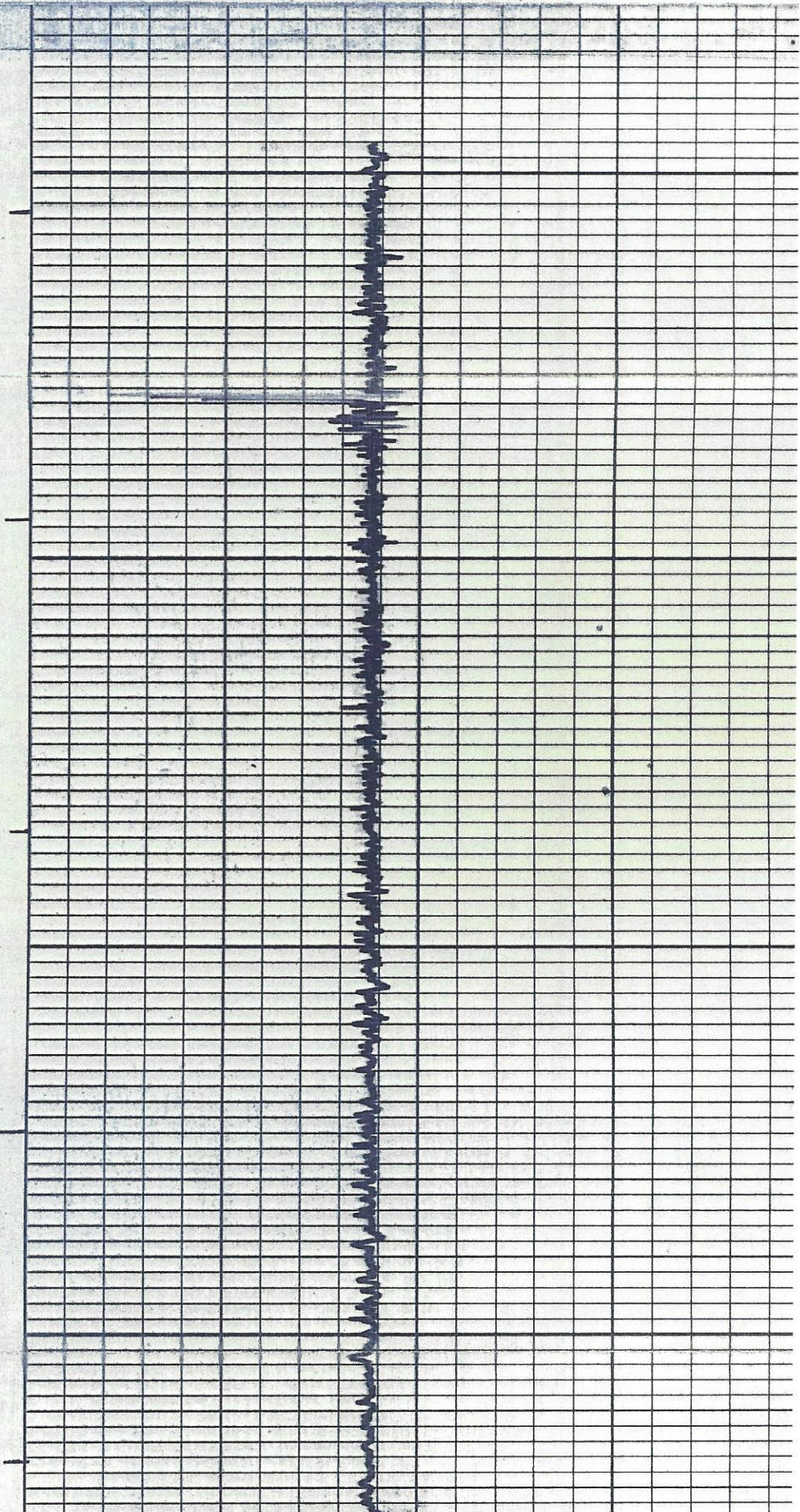


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0000

2100





0200

0300

0400





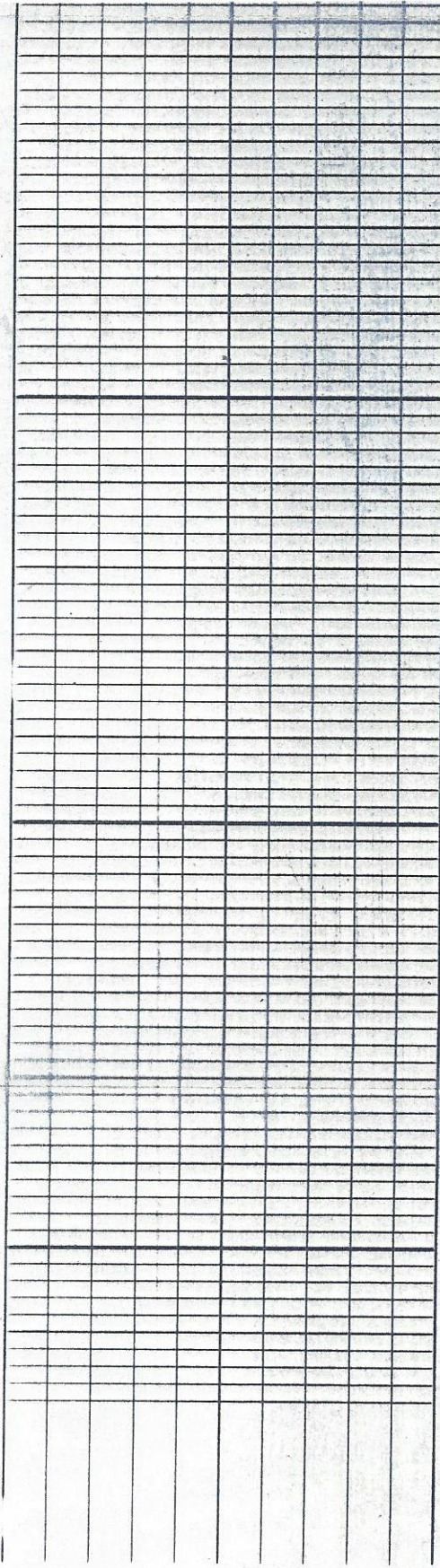
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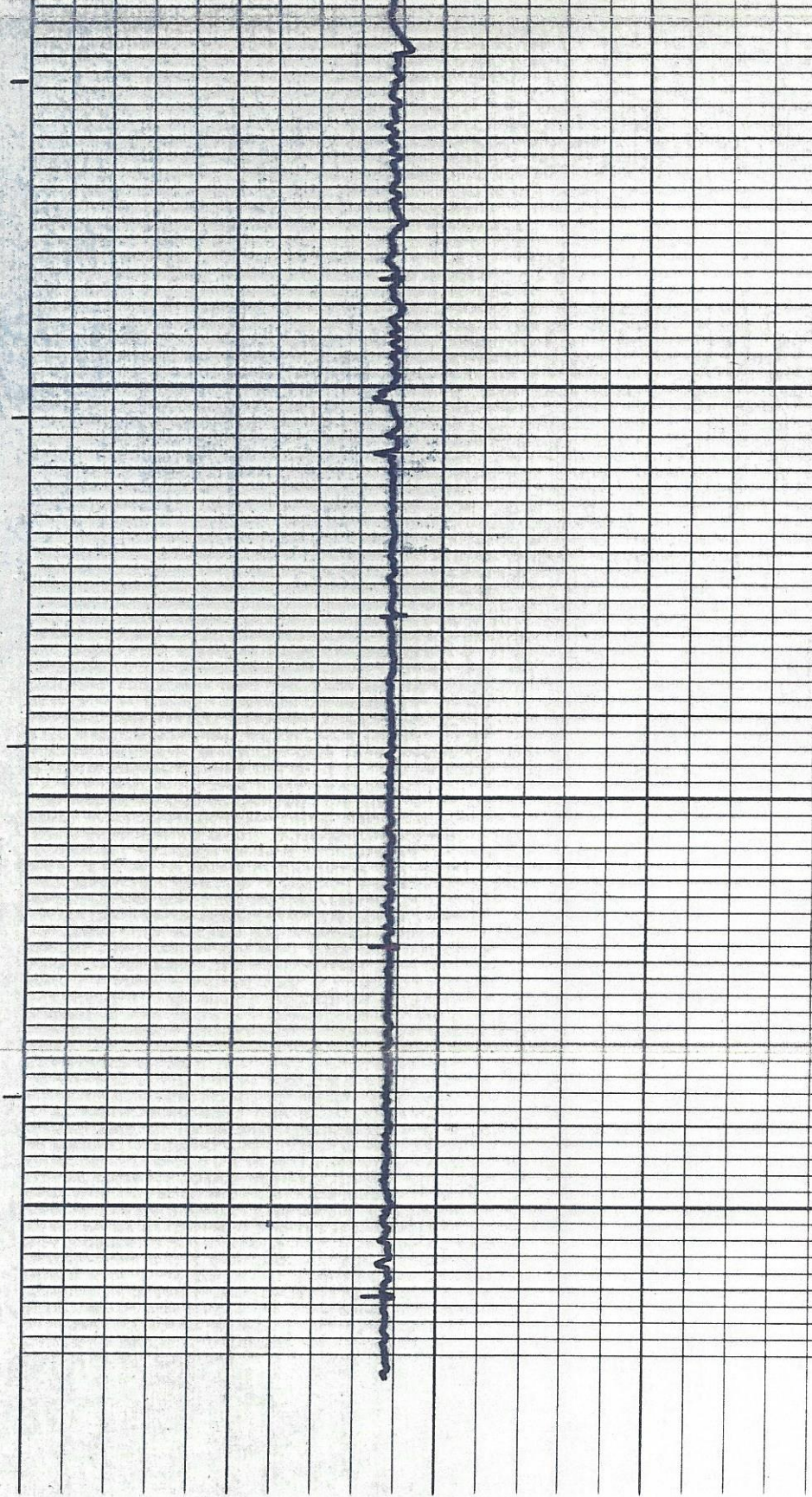
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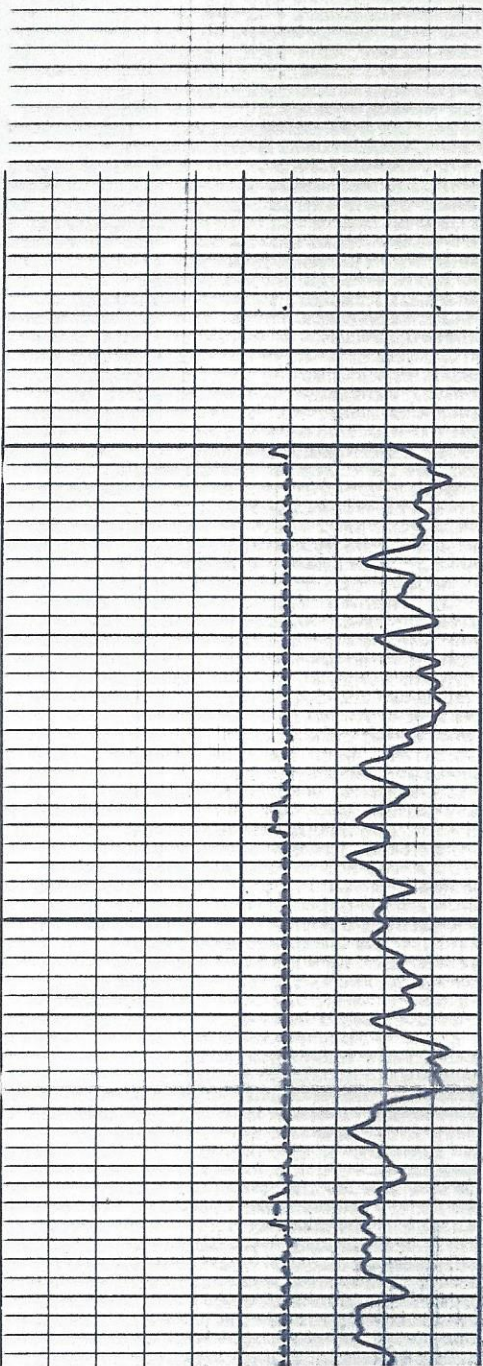


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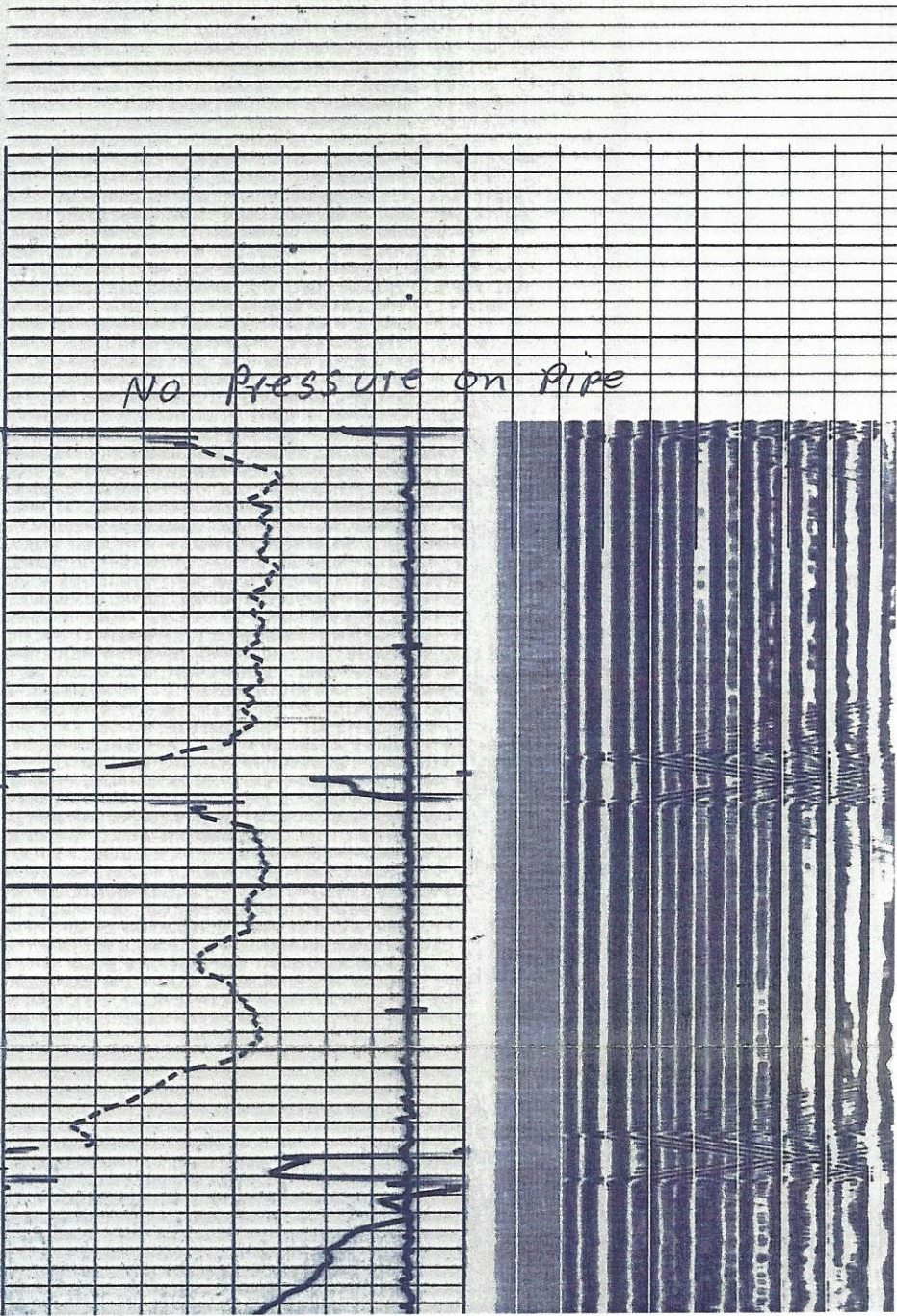


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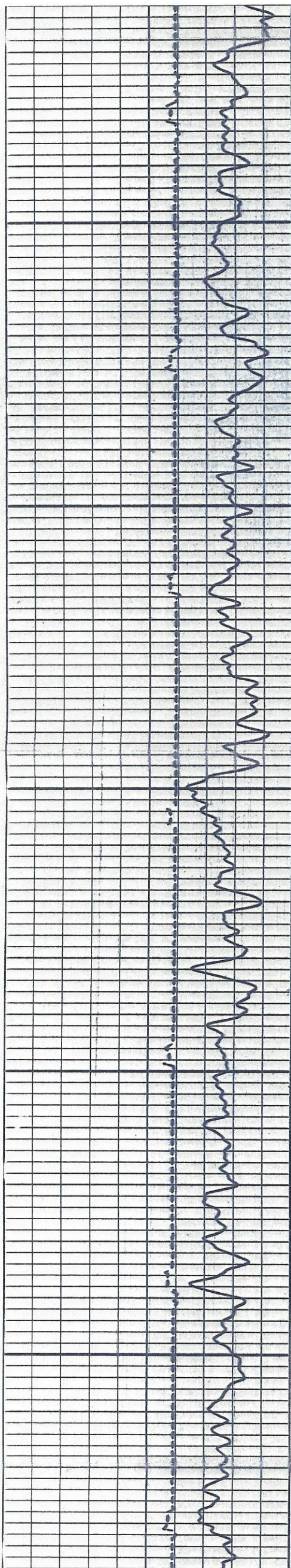




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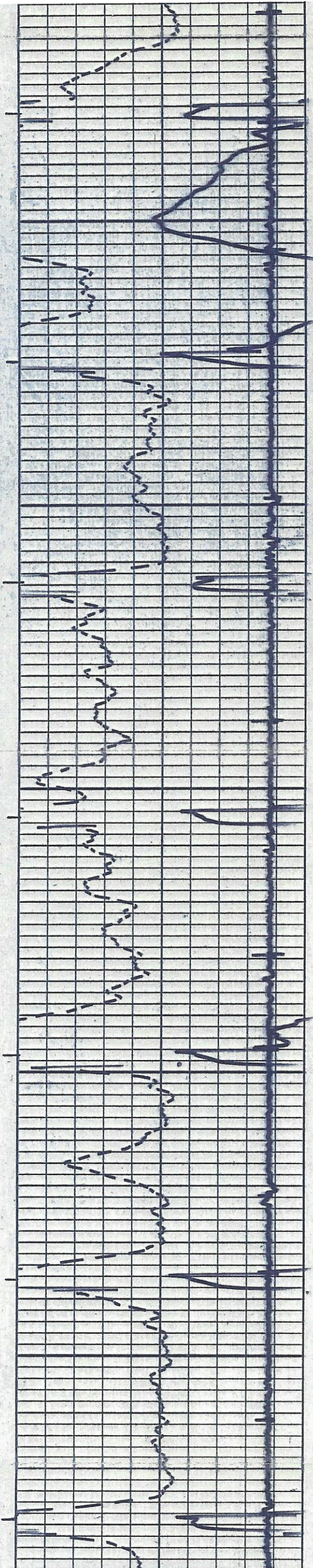




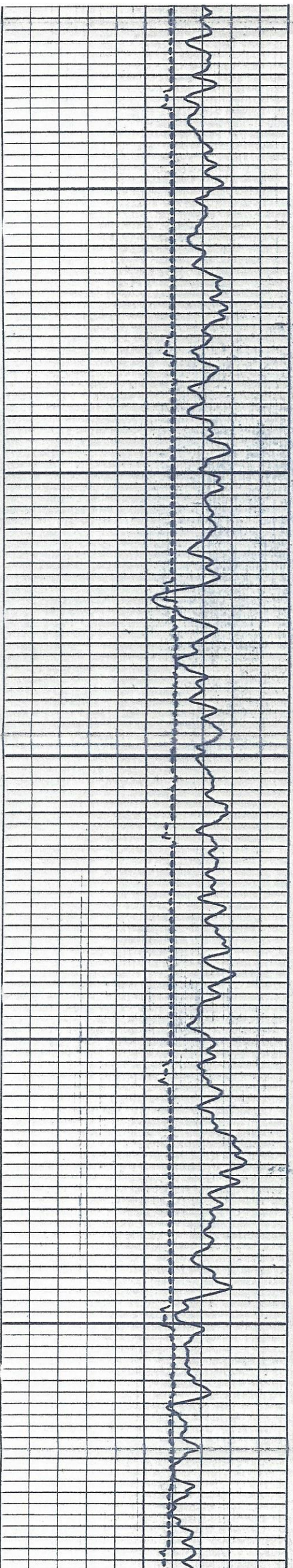
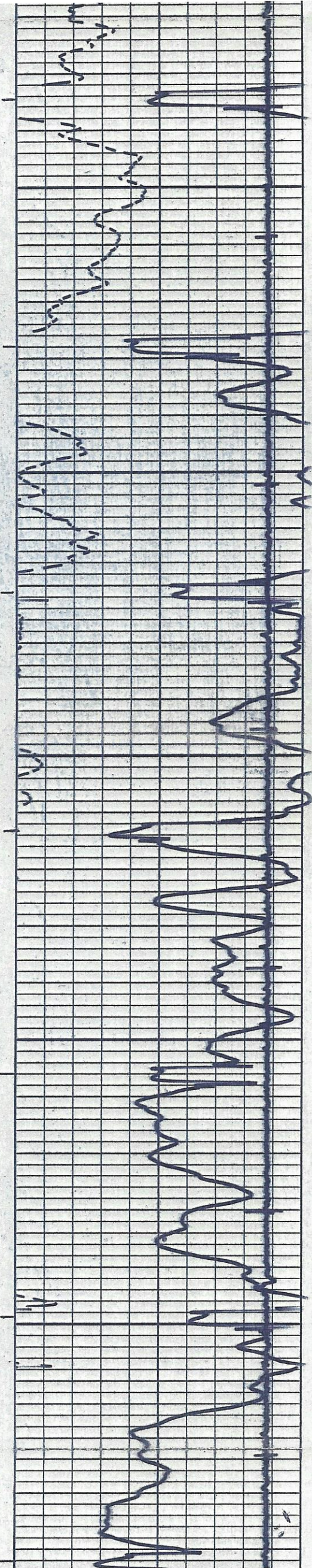
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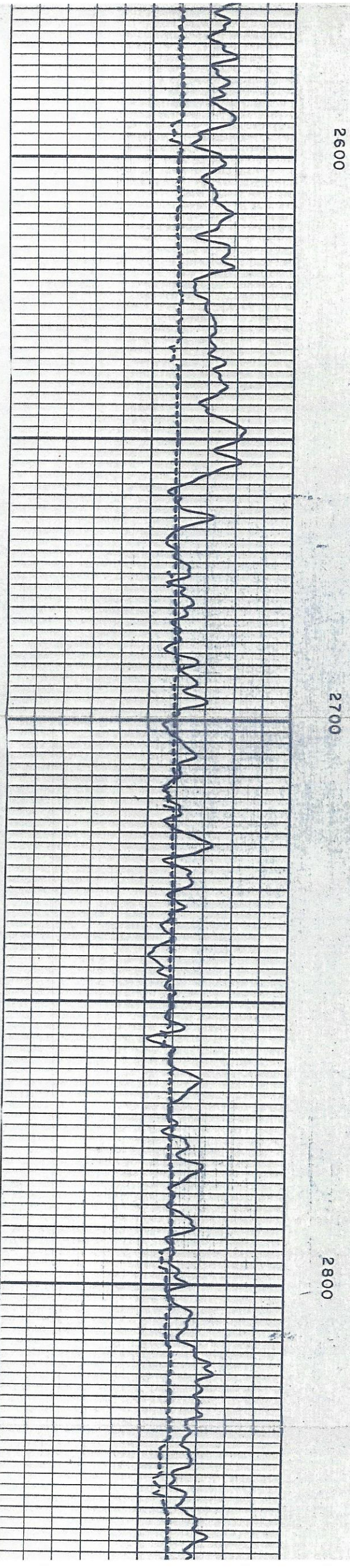
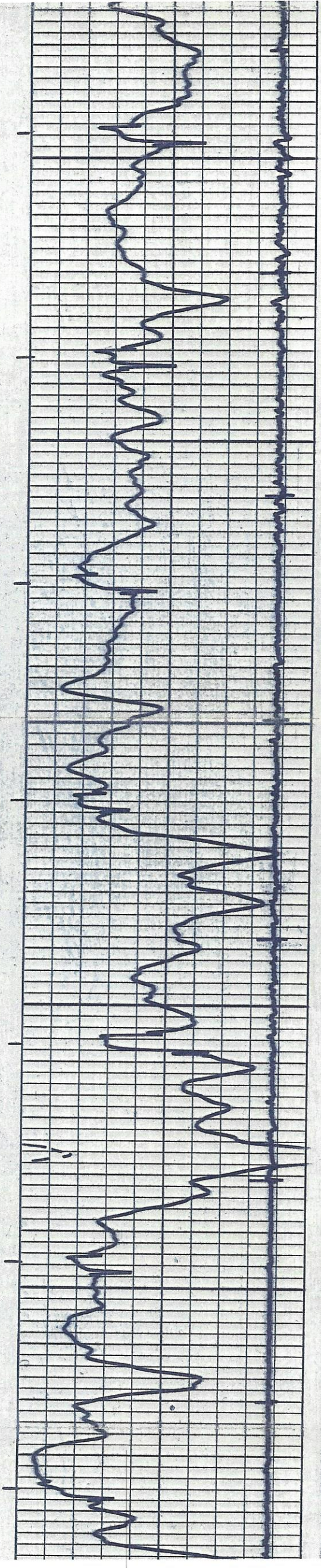
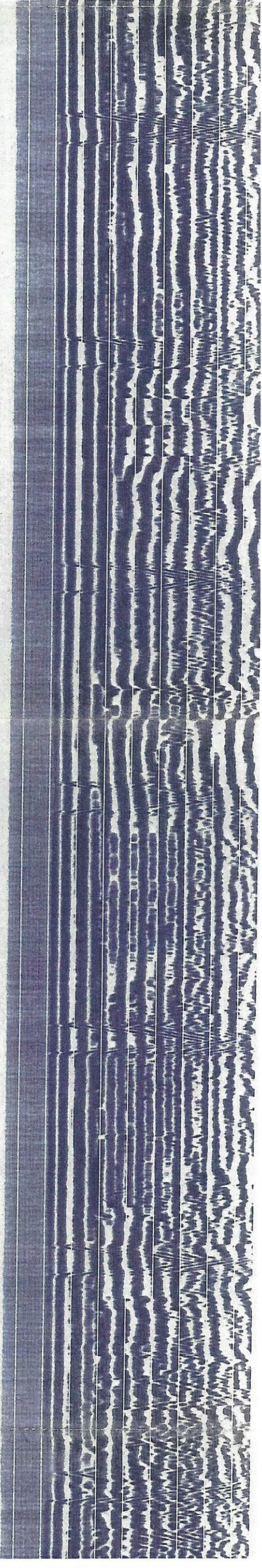
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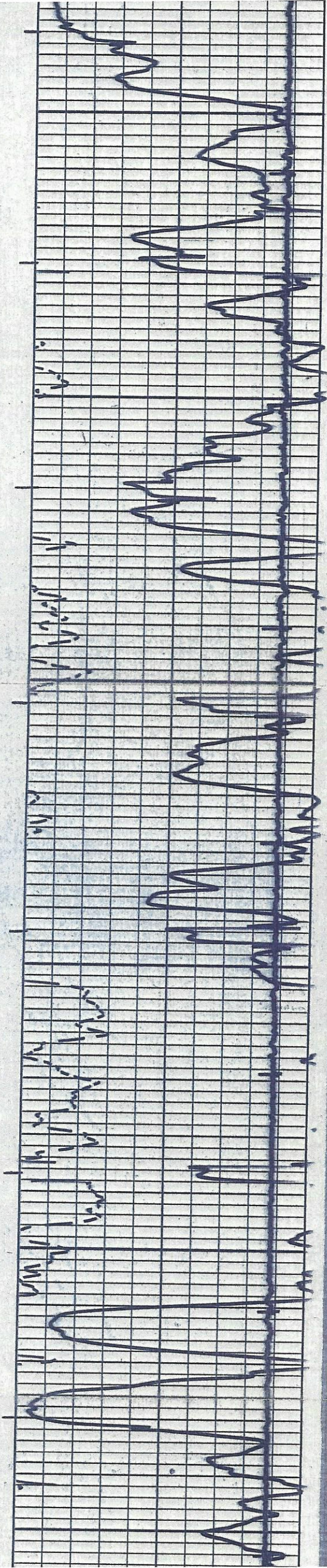








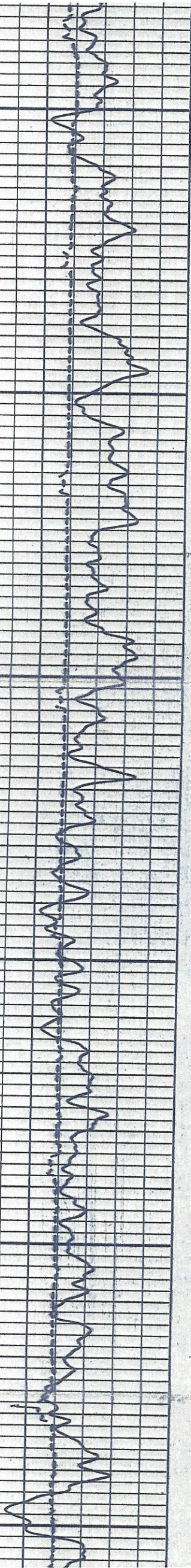




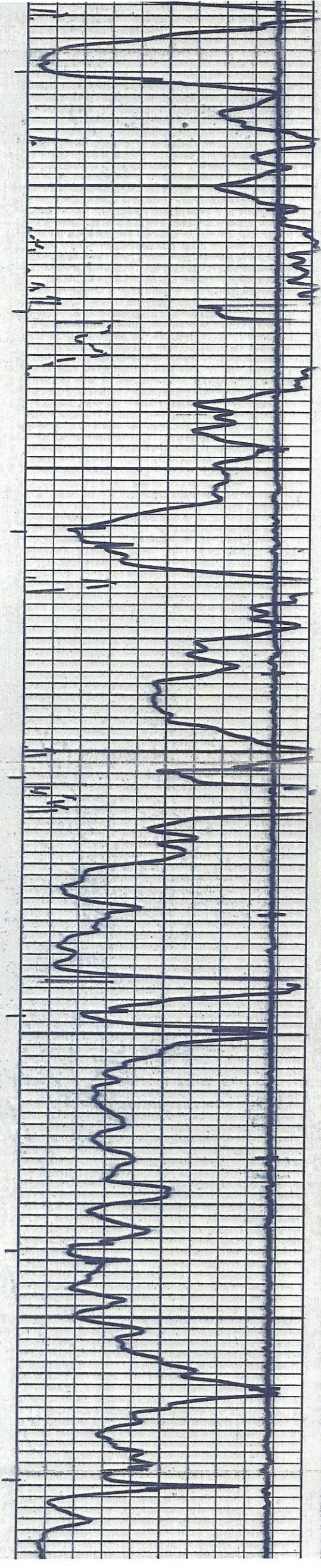
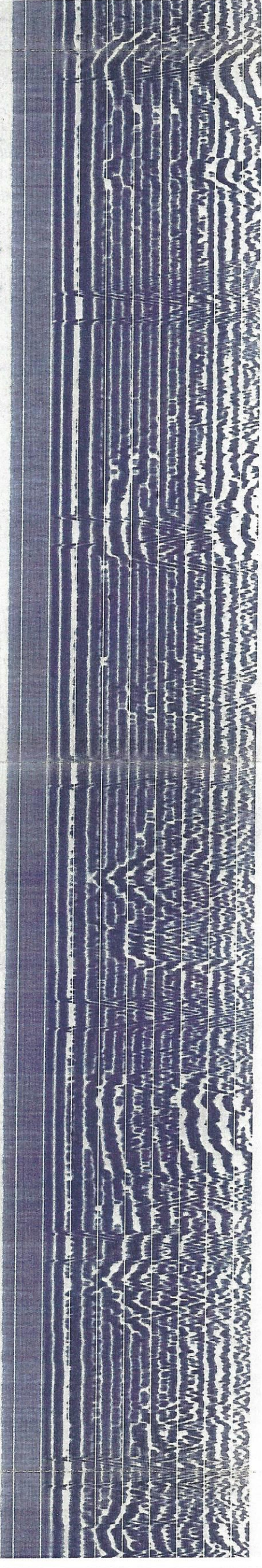
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3100



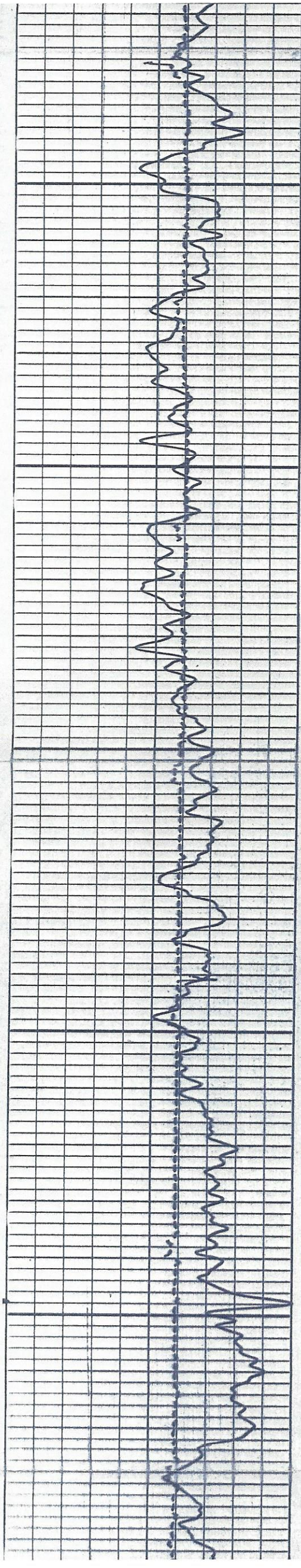




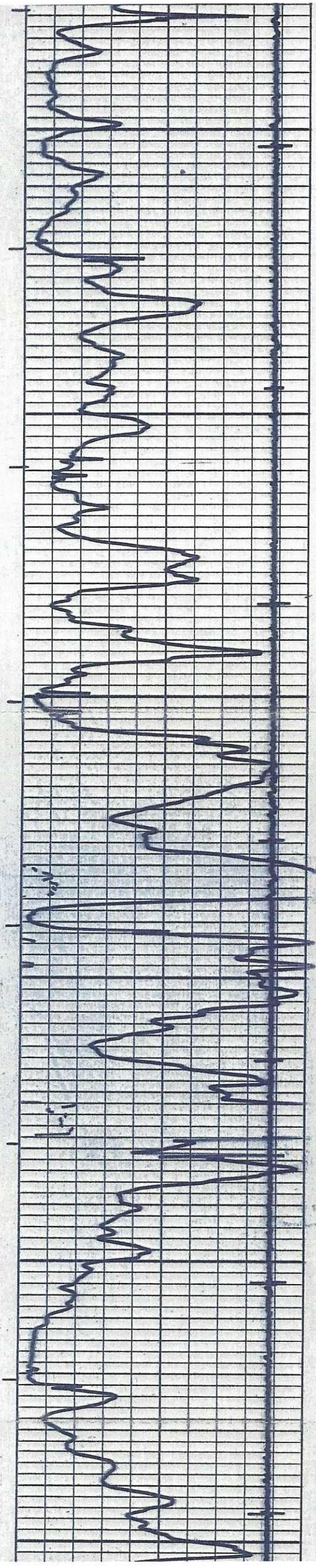
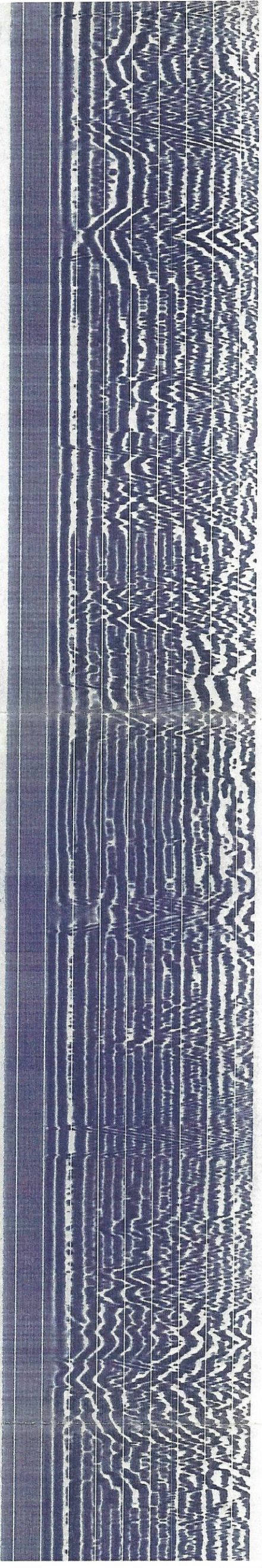
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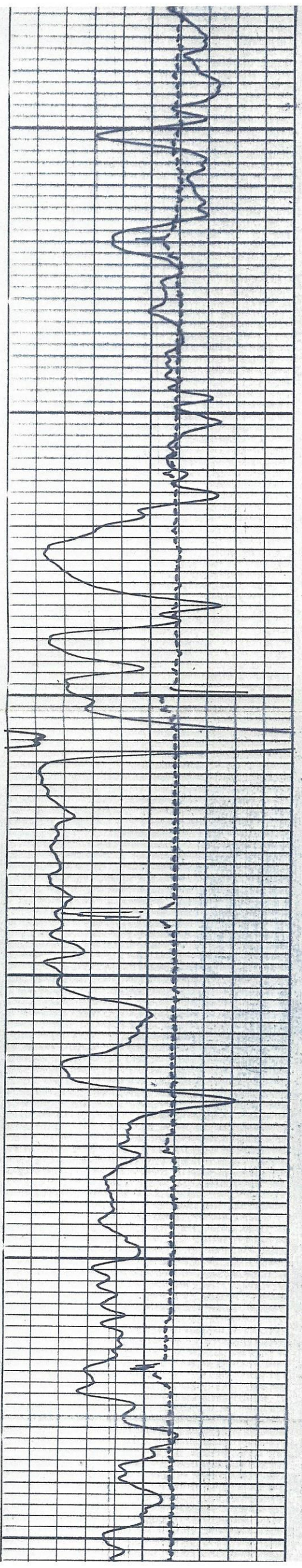




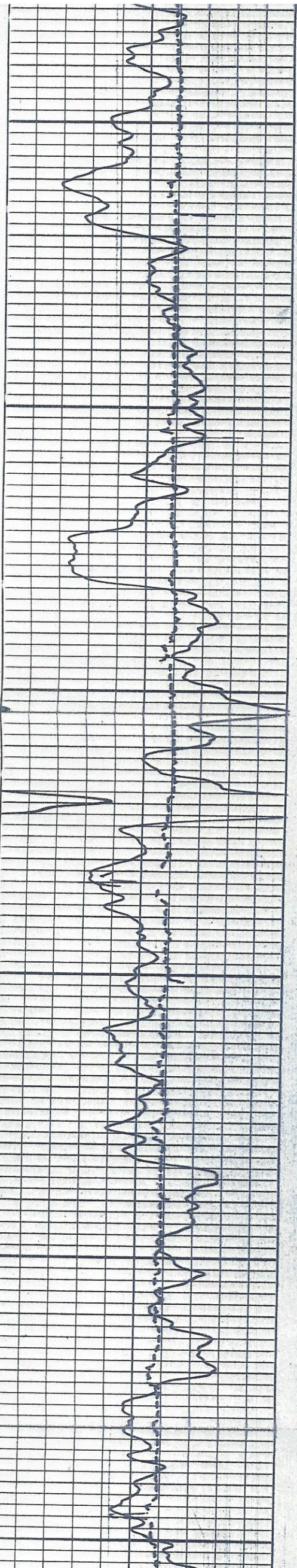
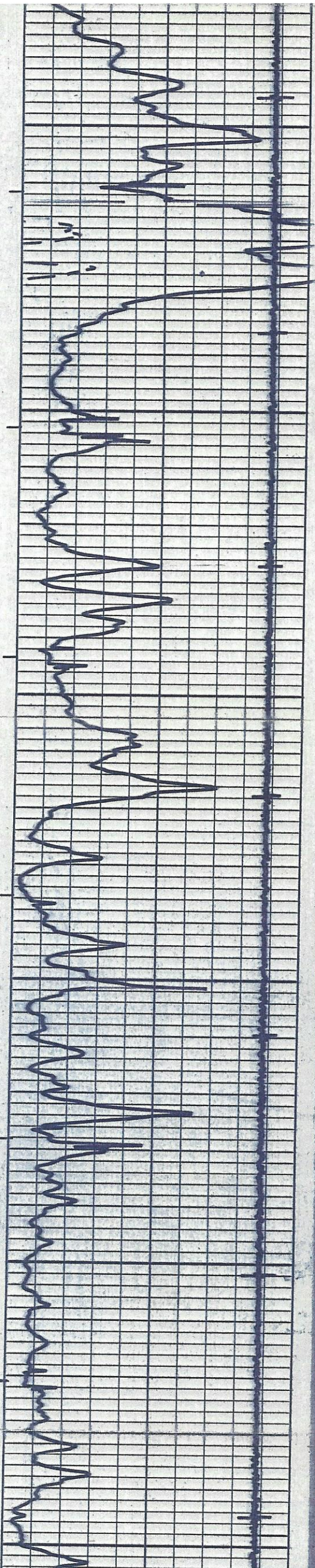
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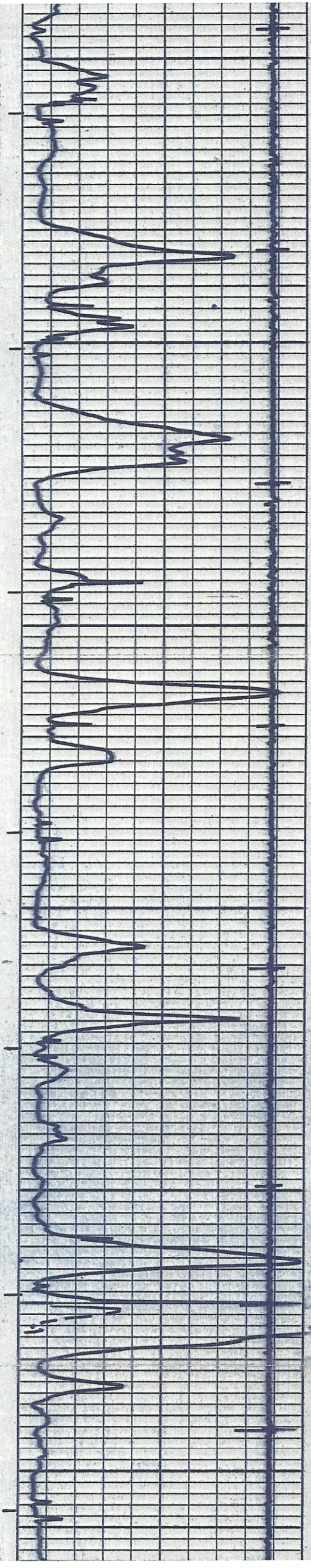
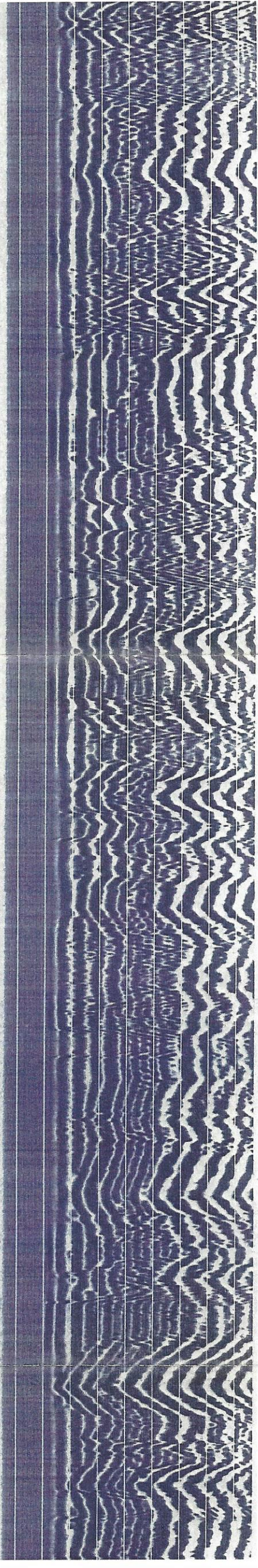
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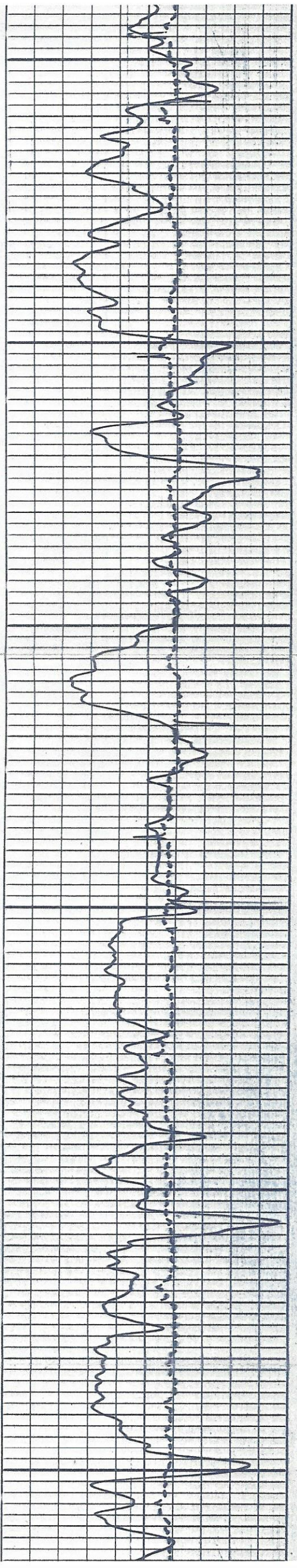




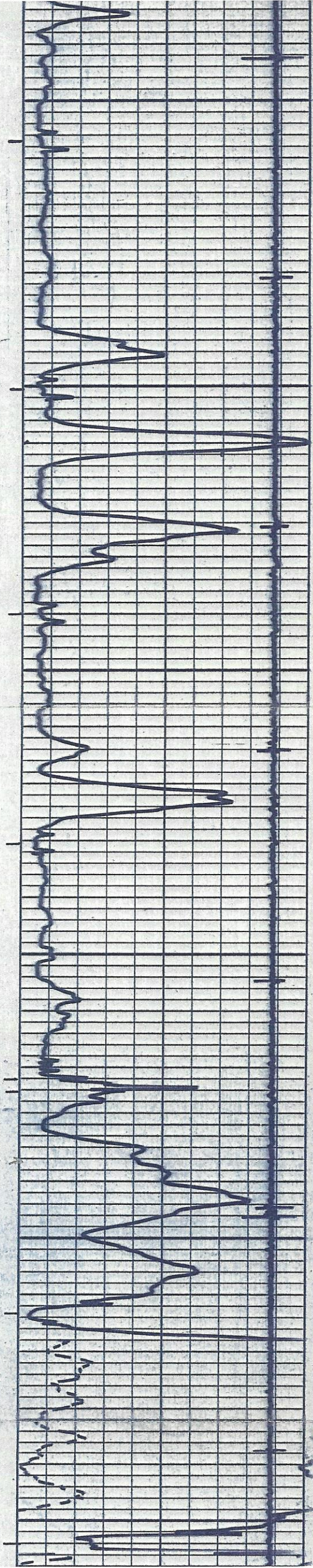
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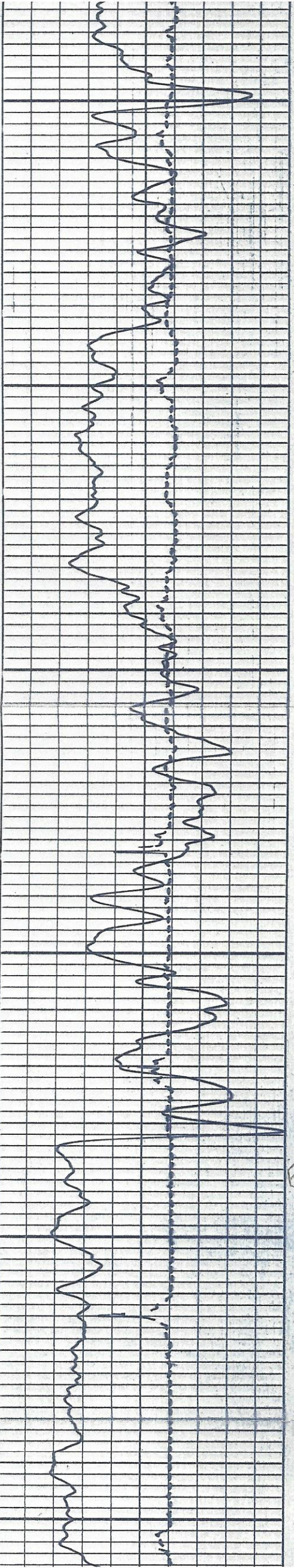


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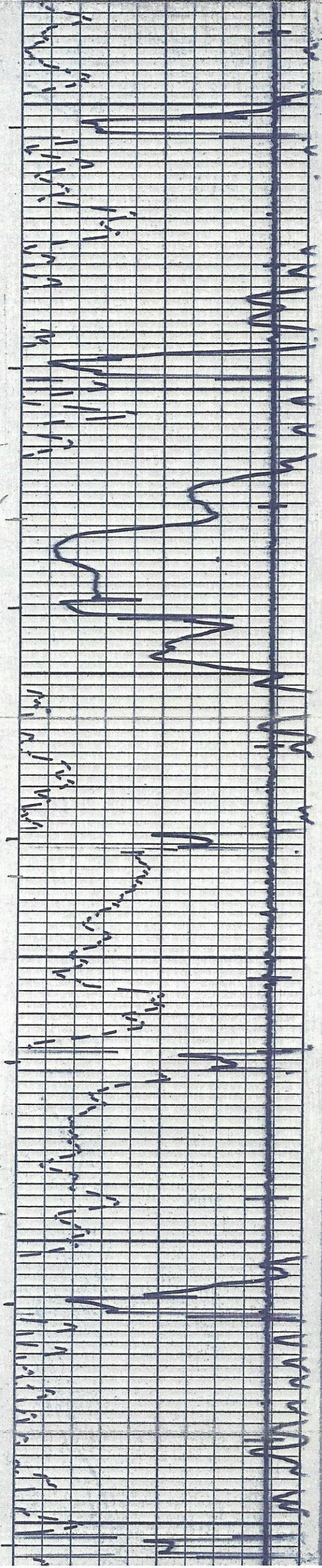
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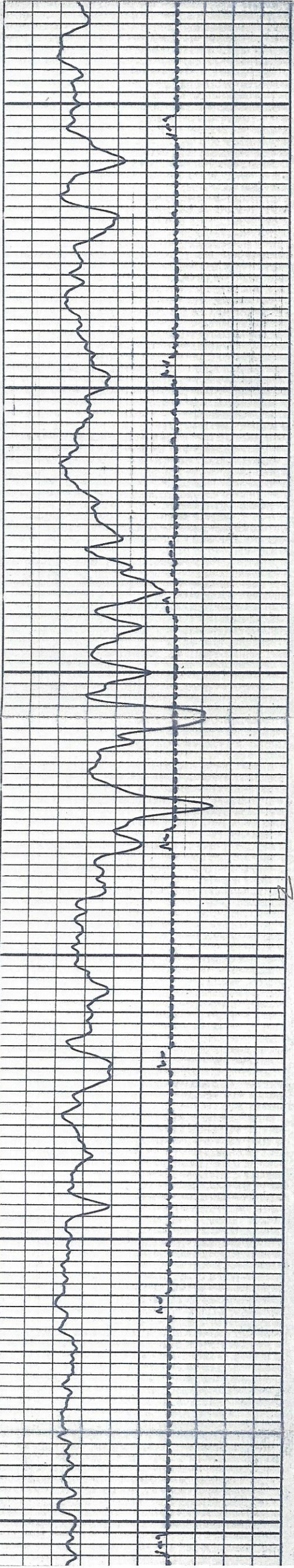






CARTEL

Navajo

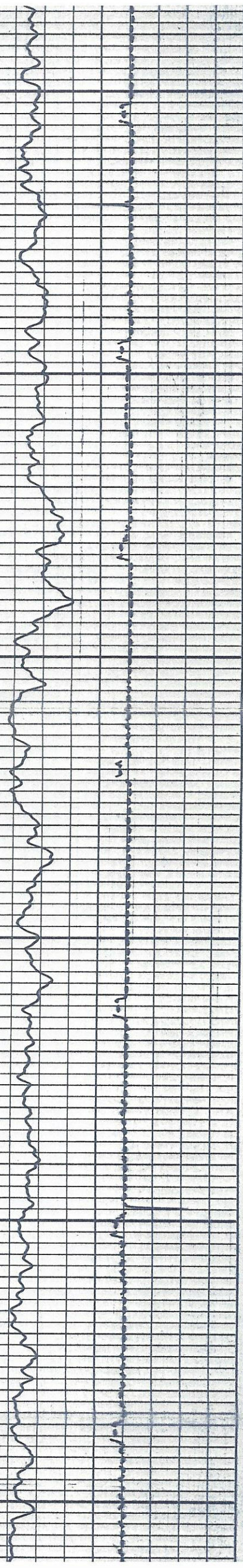
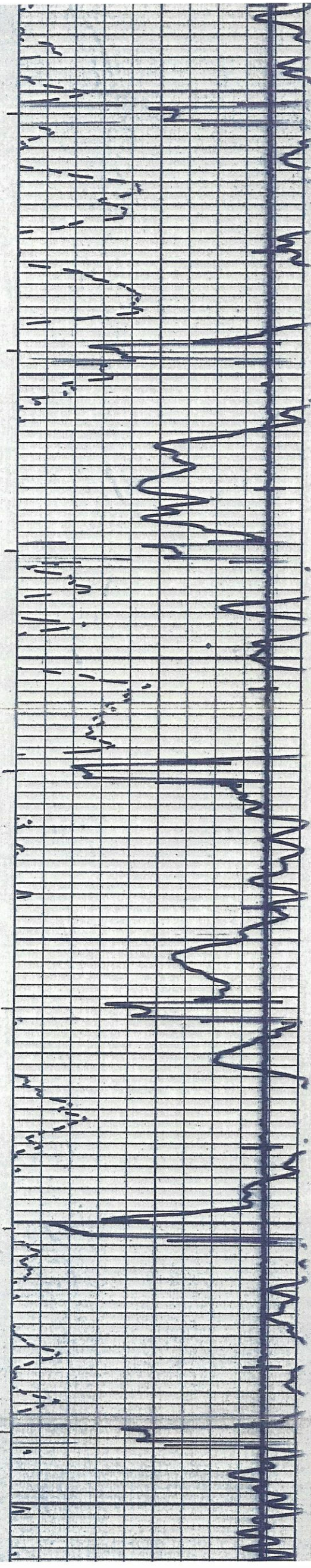




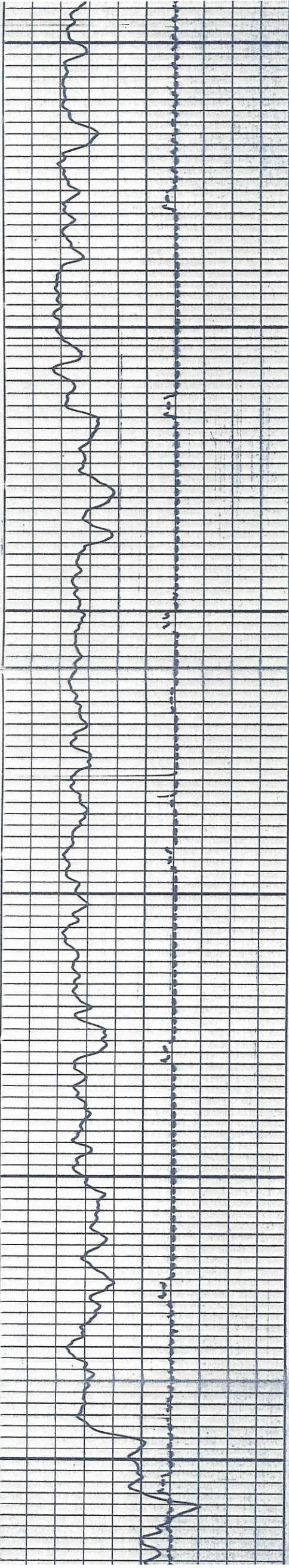
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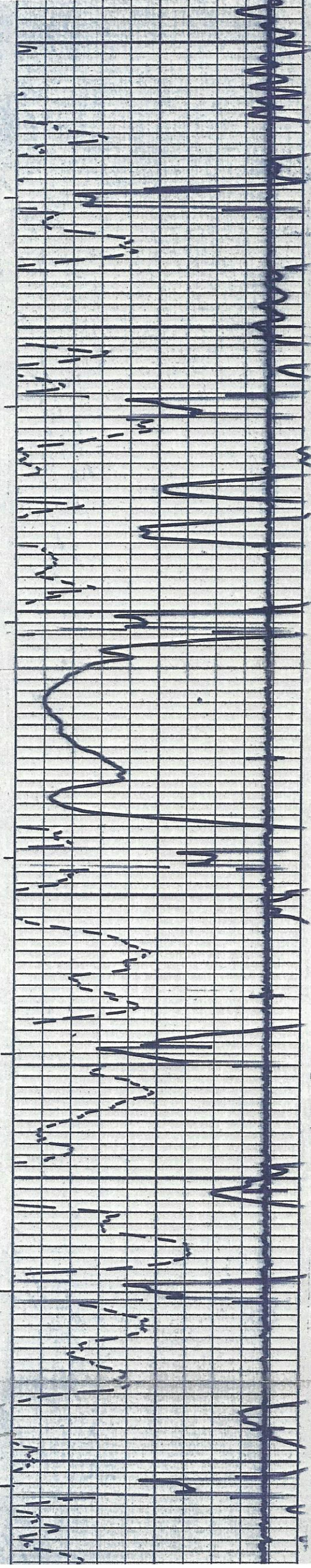


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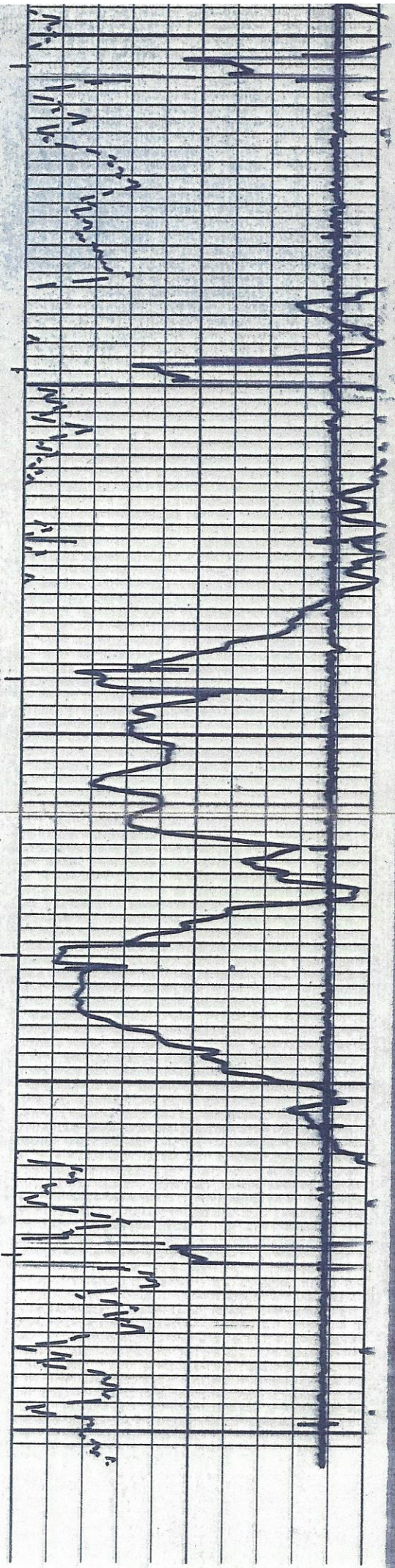
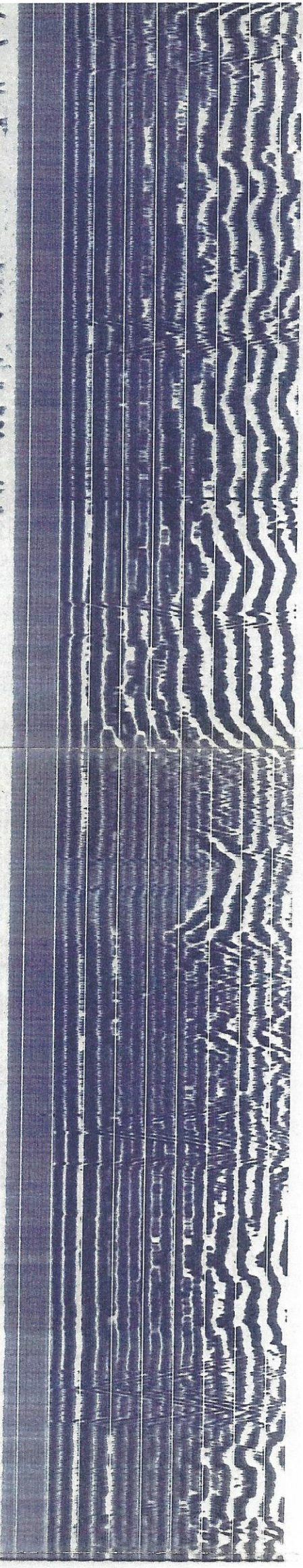
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Chinle

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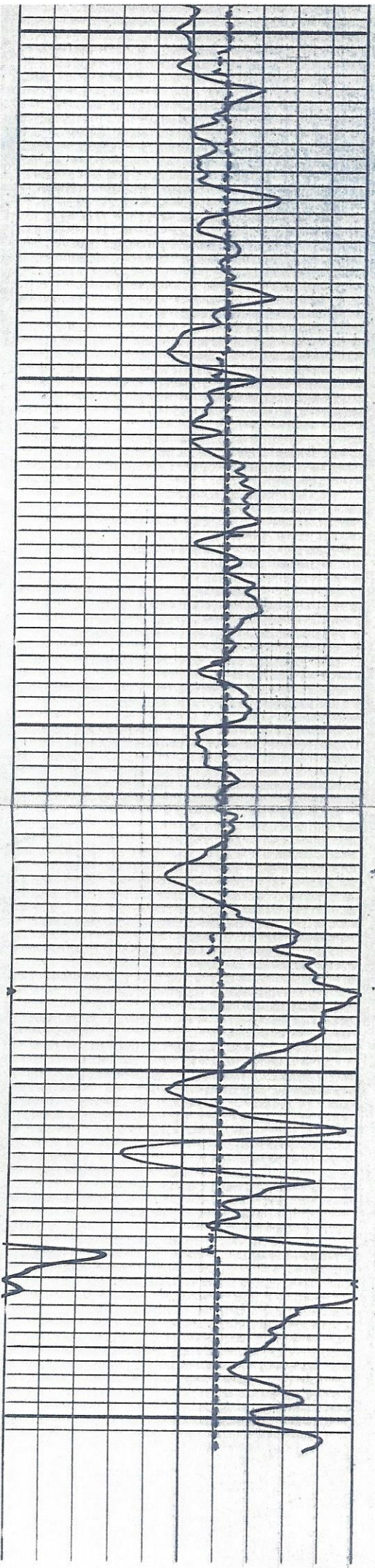




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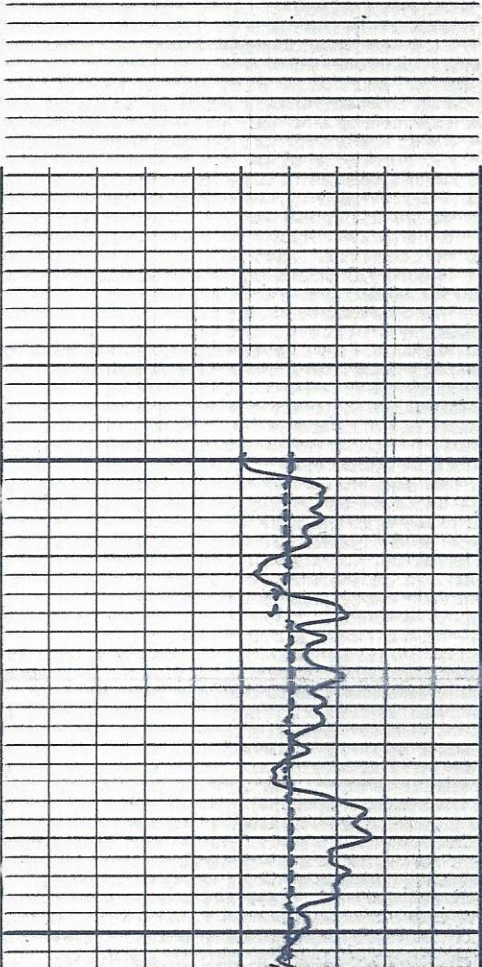
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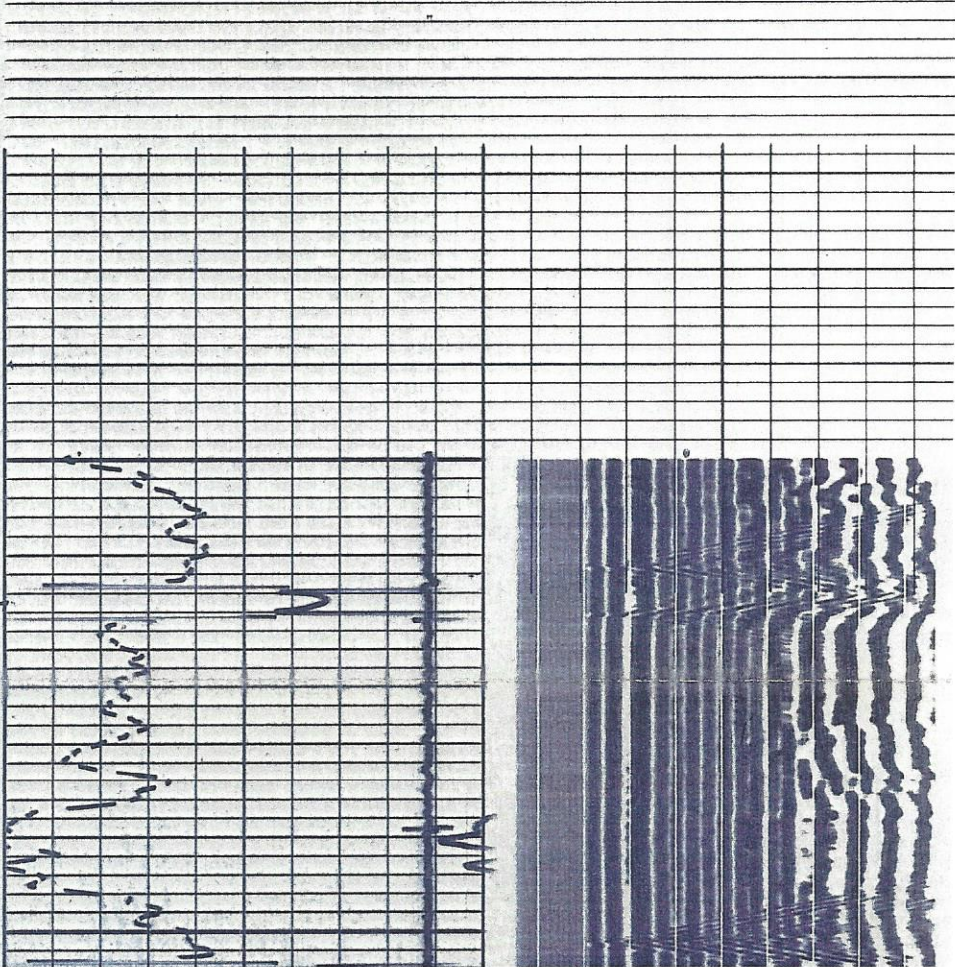




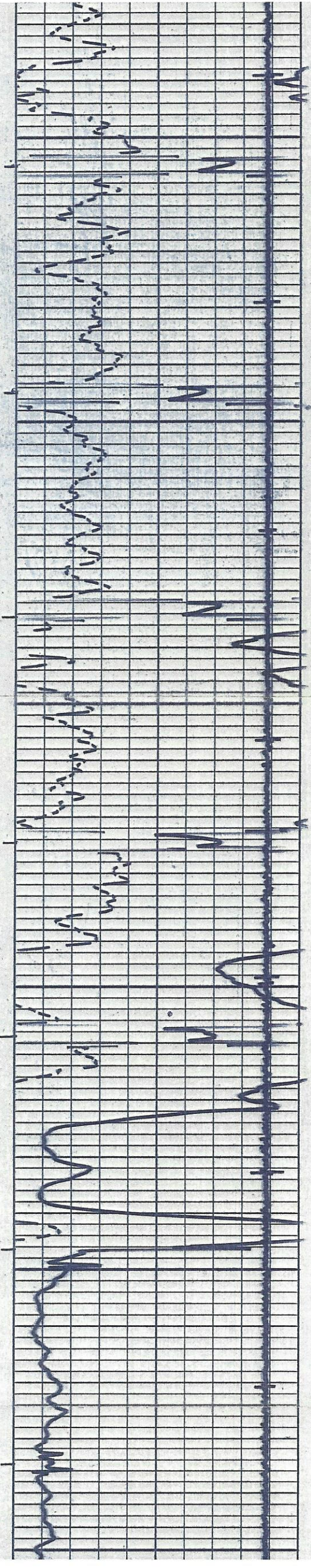
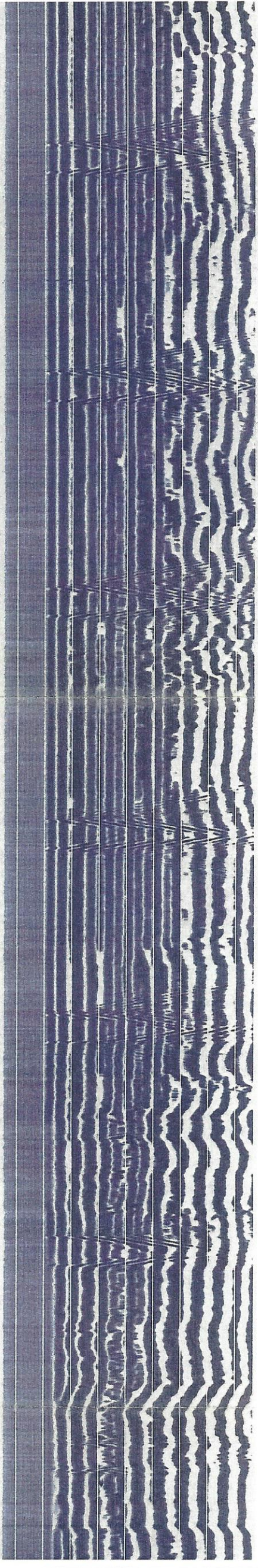
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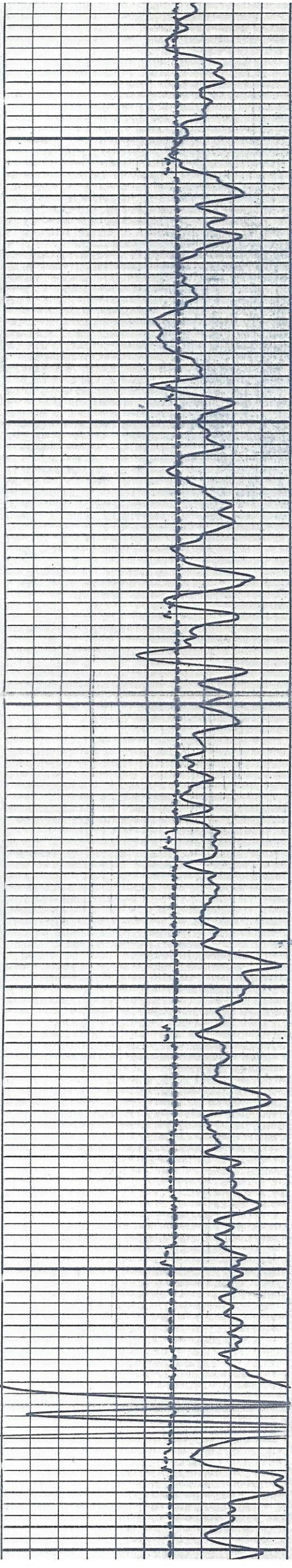




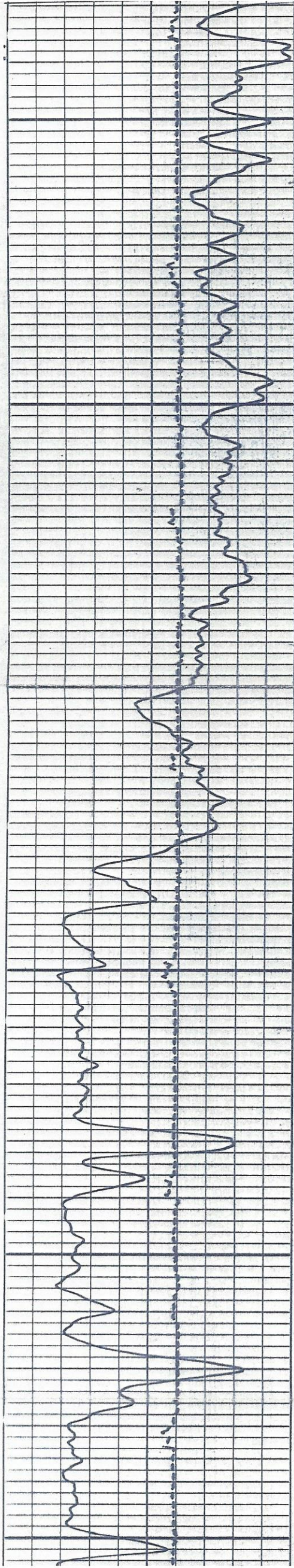
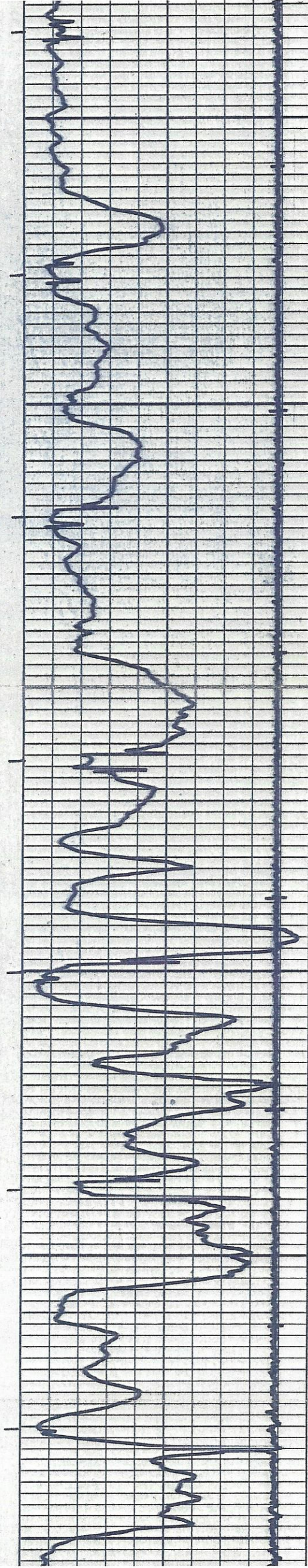
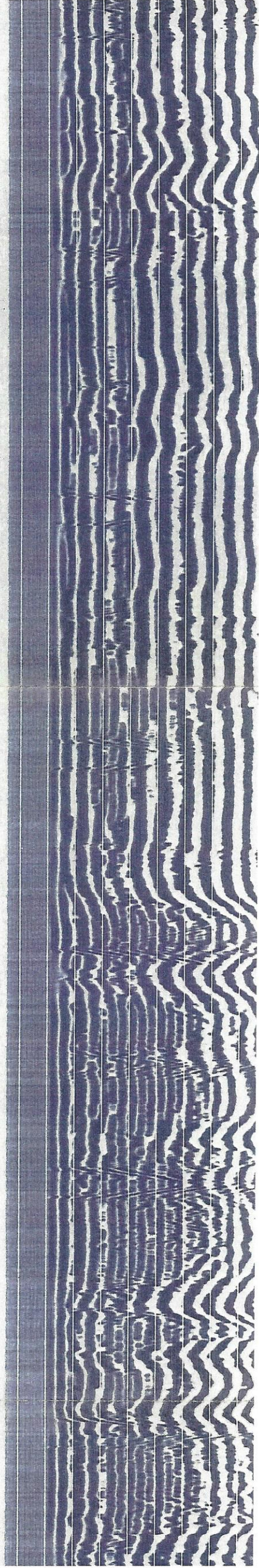
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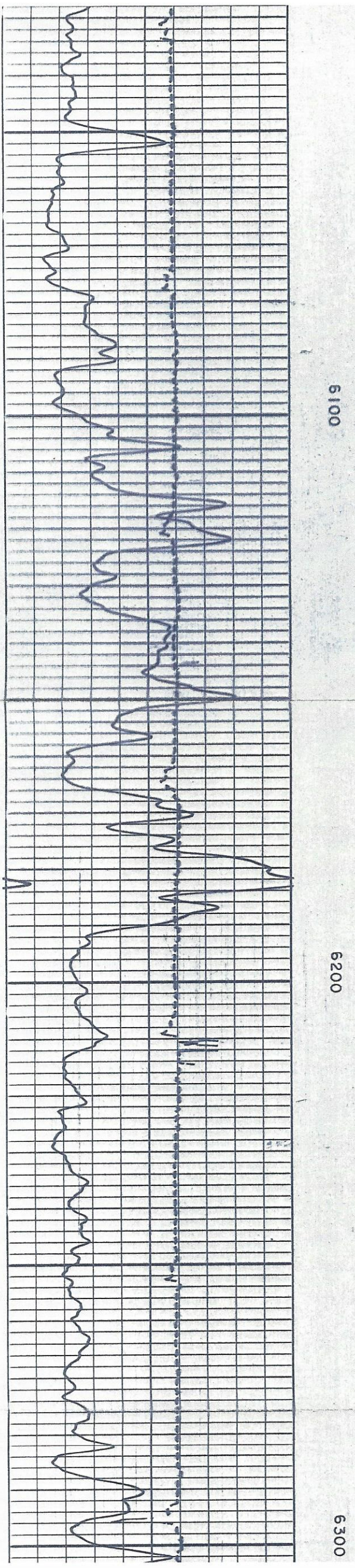
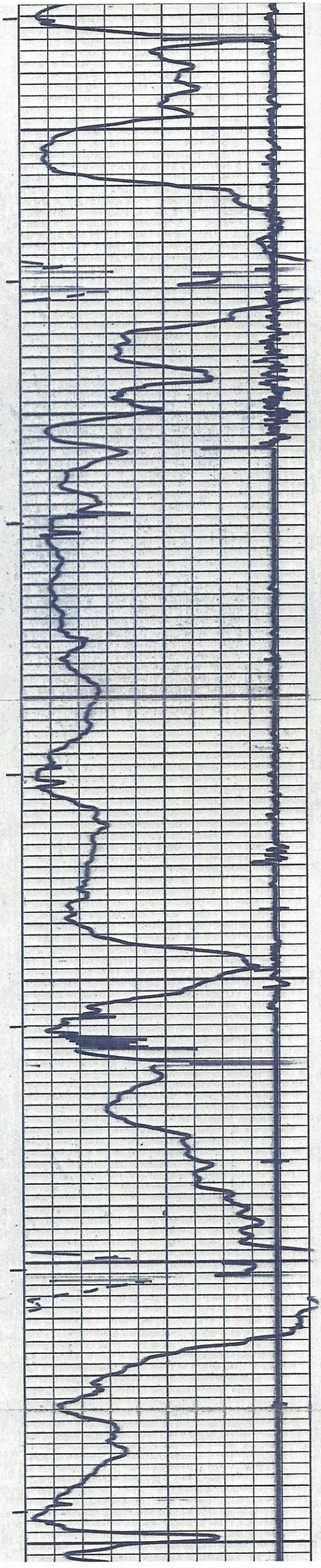
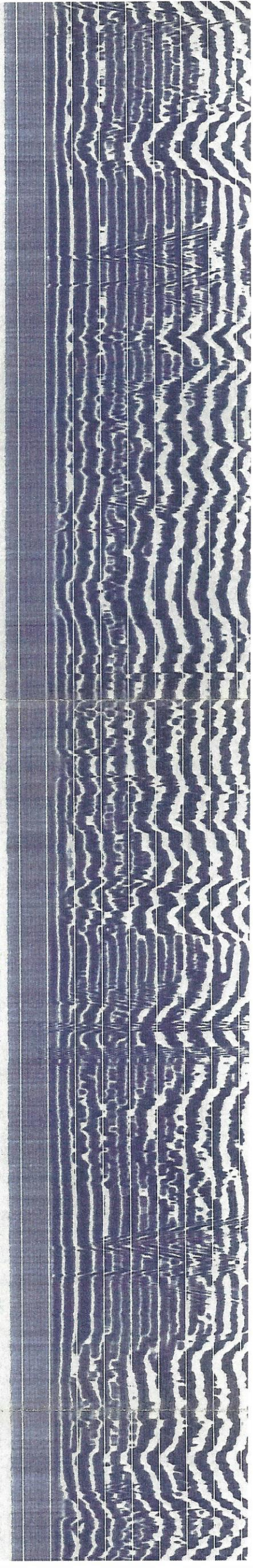
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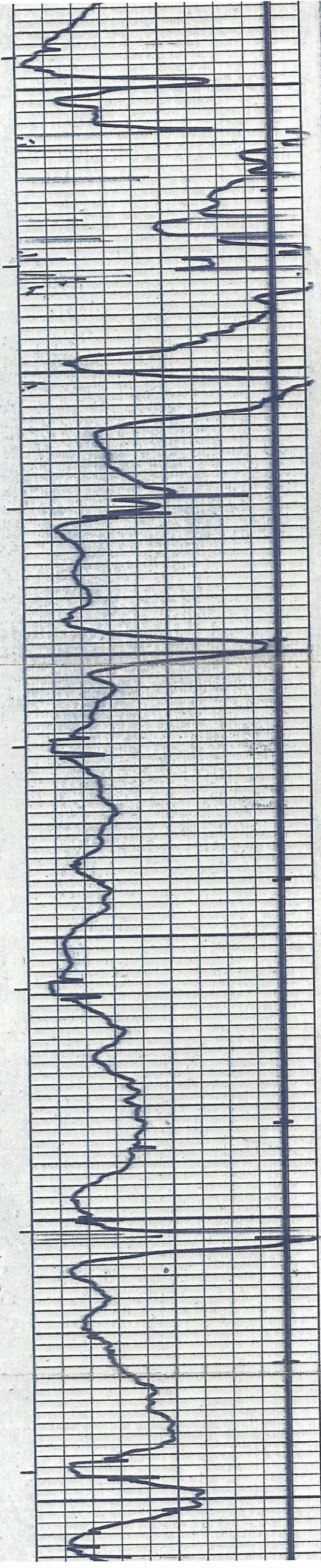
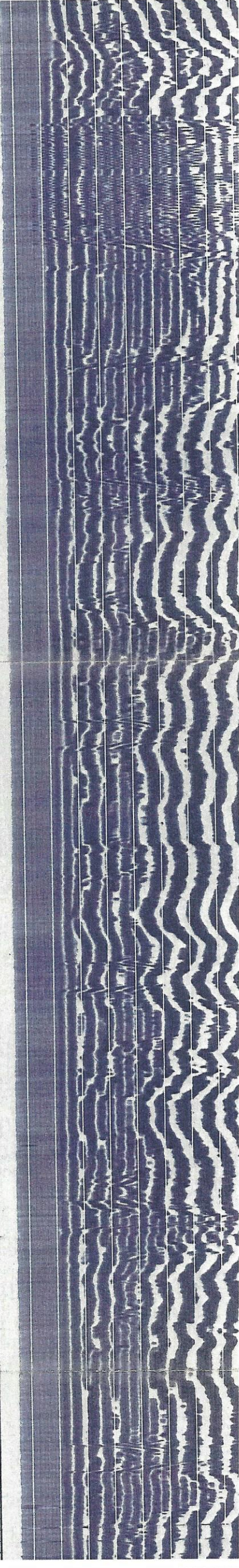








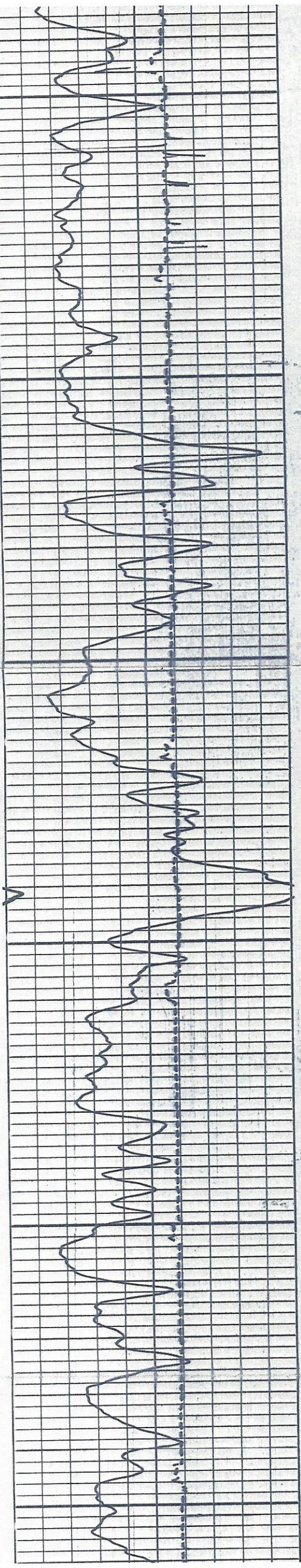




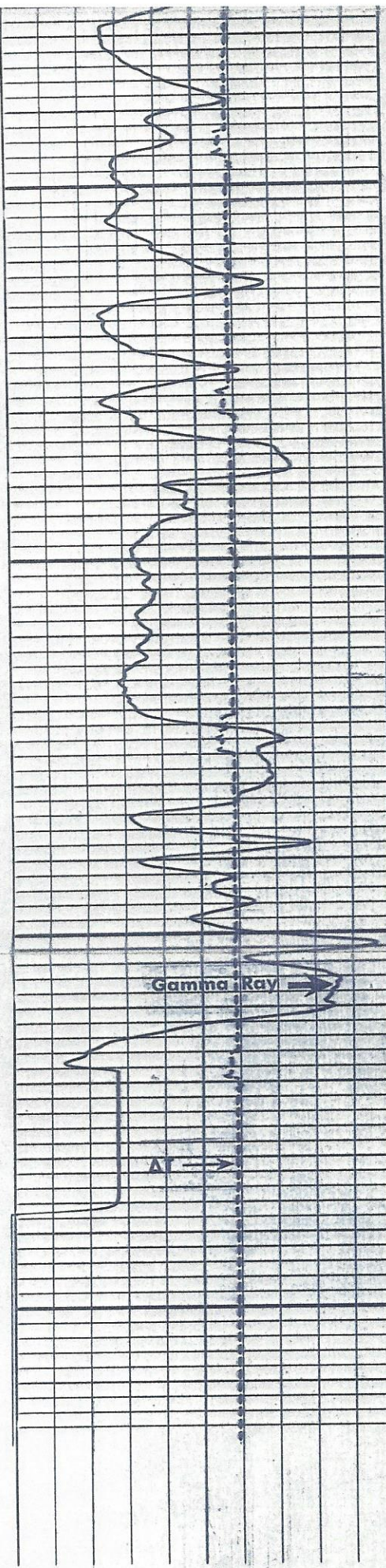
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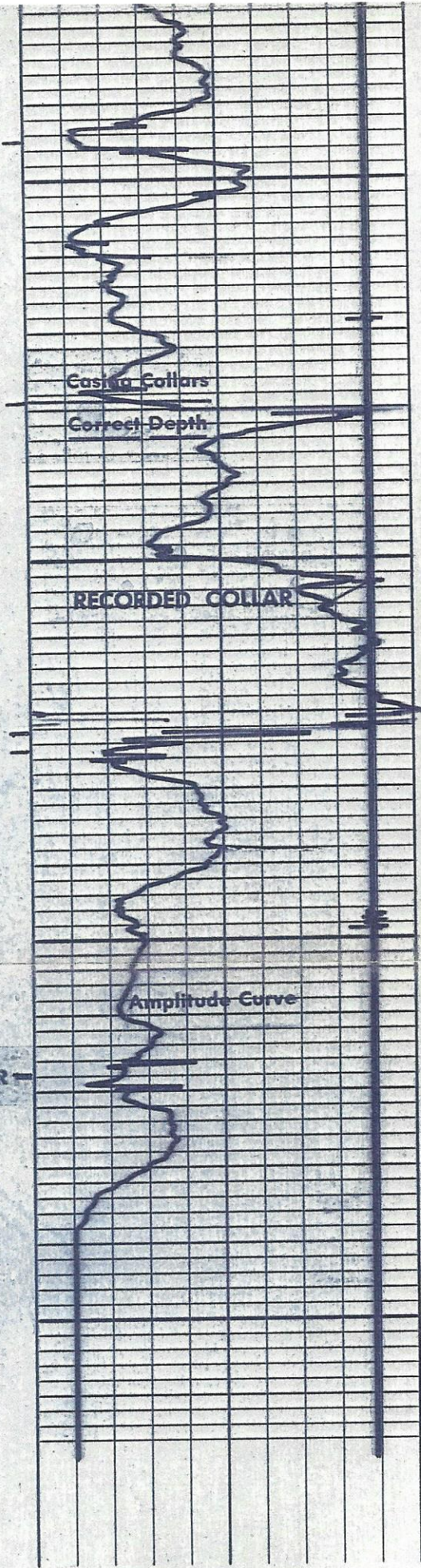


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FR GR

FR

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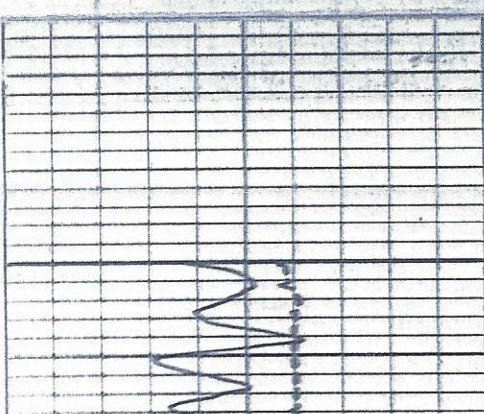


Casing Collars

Correct Depth

RECORDED COLLAR

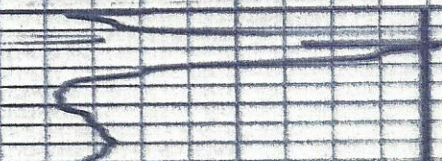
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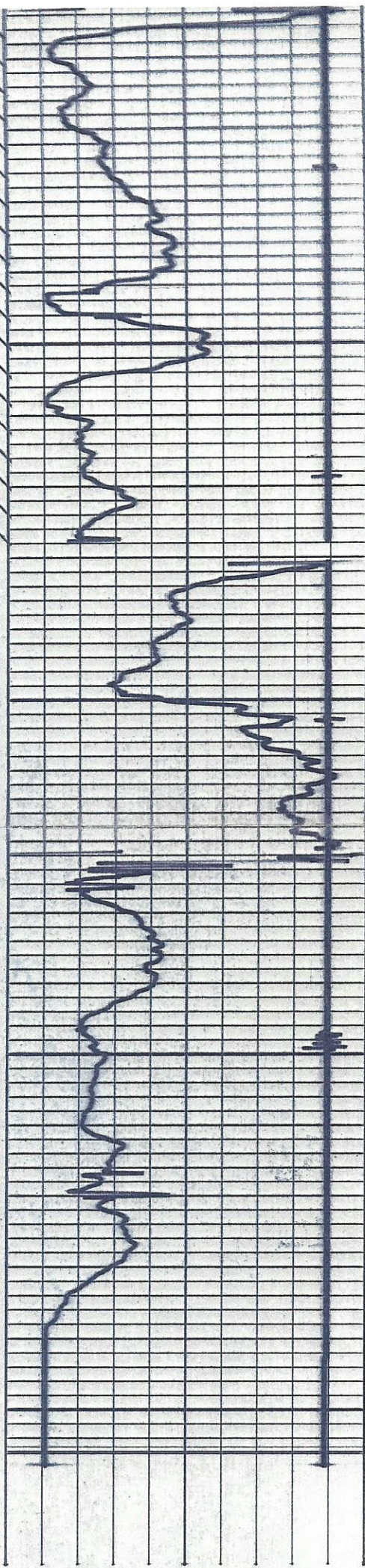
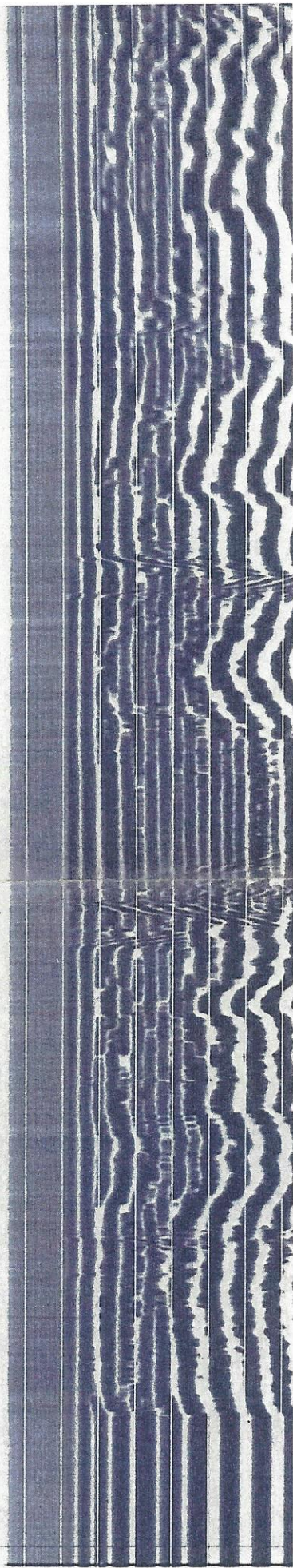
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MEM

REPEAT SECTION



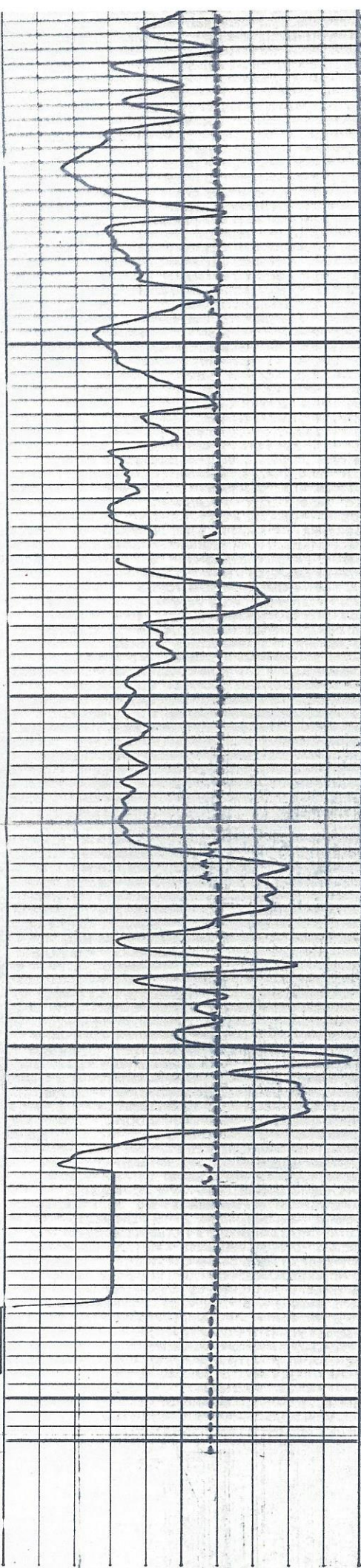




MEMORIZER OUT — CURVES INVALID

6600

6700



RE

TRANSIT TIME	
MICROSECONDS <u>5</u>	SPACING
400	200

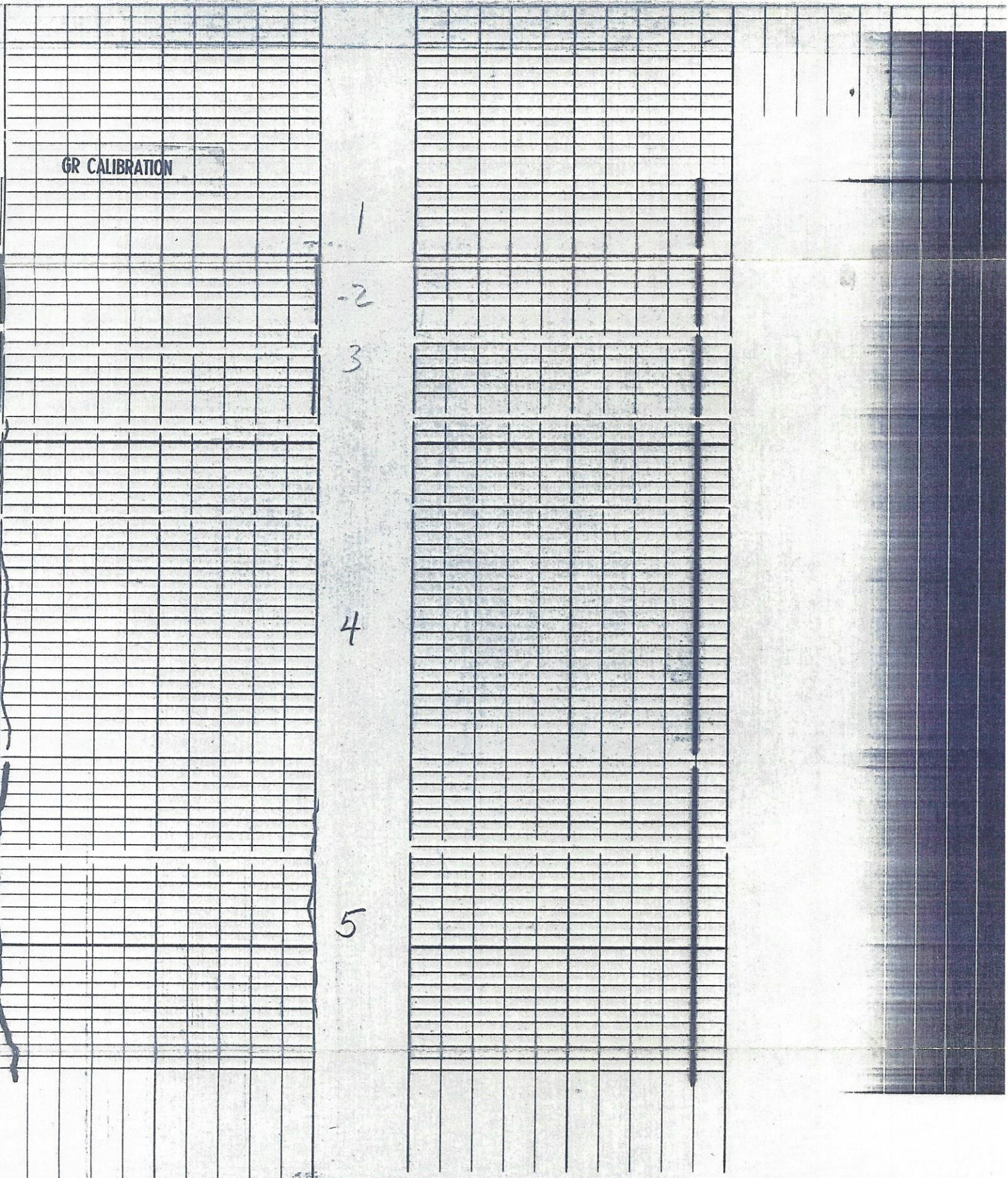
Casing Collars Corrected Depth	
Recorded Collars 24' Deep	
CASING BOND	
MILLIVOLTS	
0	50

VARIABLE DENSITY	
MICROSECONDS <u>3</u>	SPA
260	

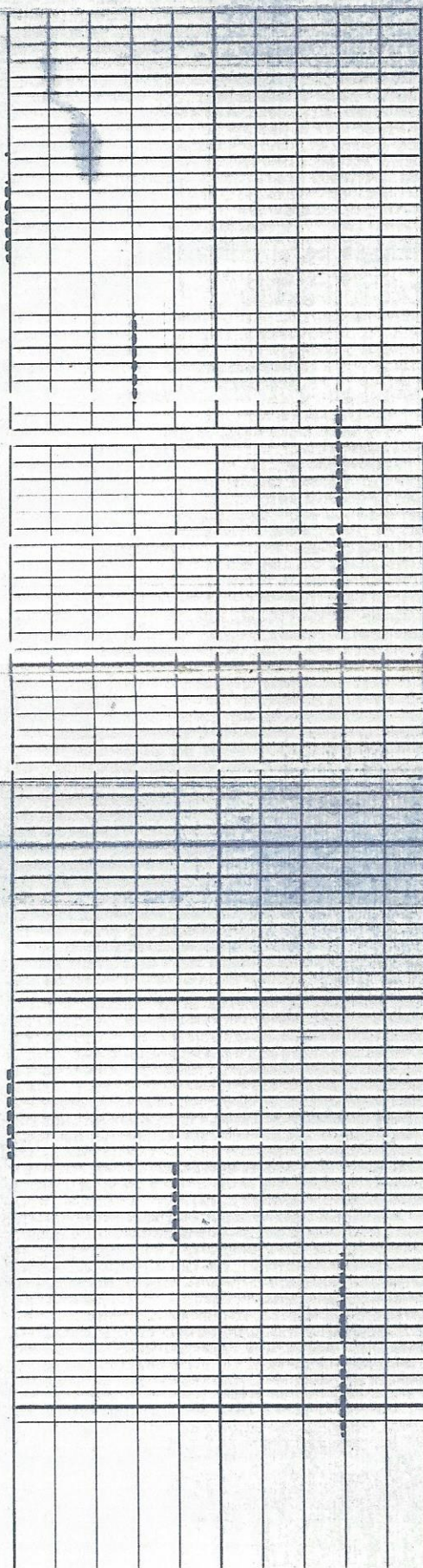


<b>TRANSIT TIME</b> MICROSECONDS <u>5</u> SPACING <u>200</u> 400 200		Casing Collars Corrected Depth	<b>CASING BOND</b> MILLIVOLTS 0 50	<b>VARIABLE DENSITY</b> MICROSECONDS <u>3</u> SPACING <u>200</u>
<b>GAMMA RAY</b> API UNITS 0 100 100 200		DEPTH	<b>AMPLIFIED CASING BOND</b> MILLIVOLTS 50 100	

COMPANY	<u>Chevron U.S.A. Inc.</u>	SCHL. FR	<u>6688</u>
WELL	<u>Emerald #78 X</u>	SCHL. TD	<u>6697</u>
FIELD	<u>Rangely</u>	DRLR TD	<u>6707</u>
COUNTY	<u>Rio Blanco</u>	Elev:	
STATE	<u>Colorado</u>	KB	<u>5487.4</u>
		DF	
		GL	<u>5473.3</u>





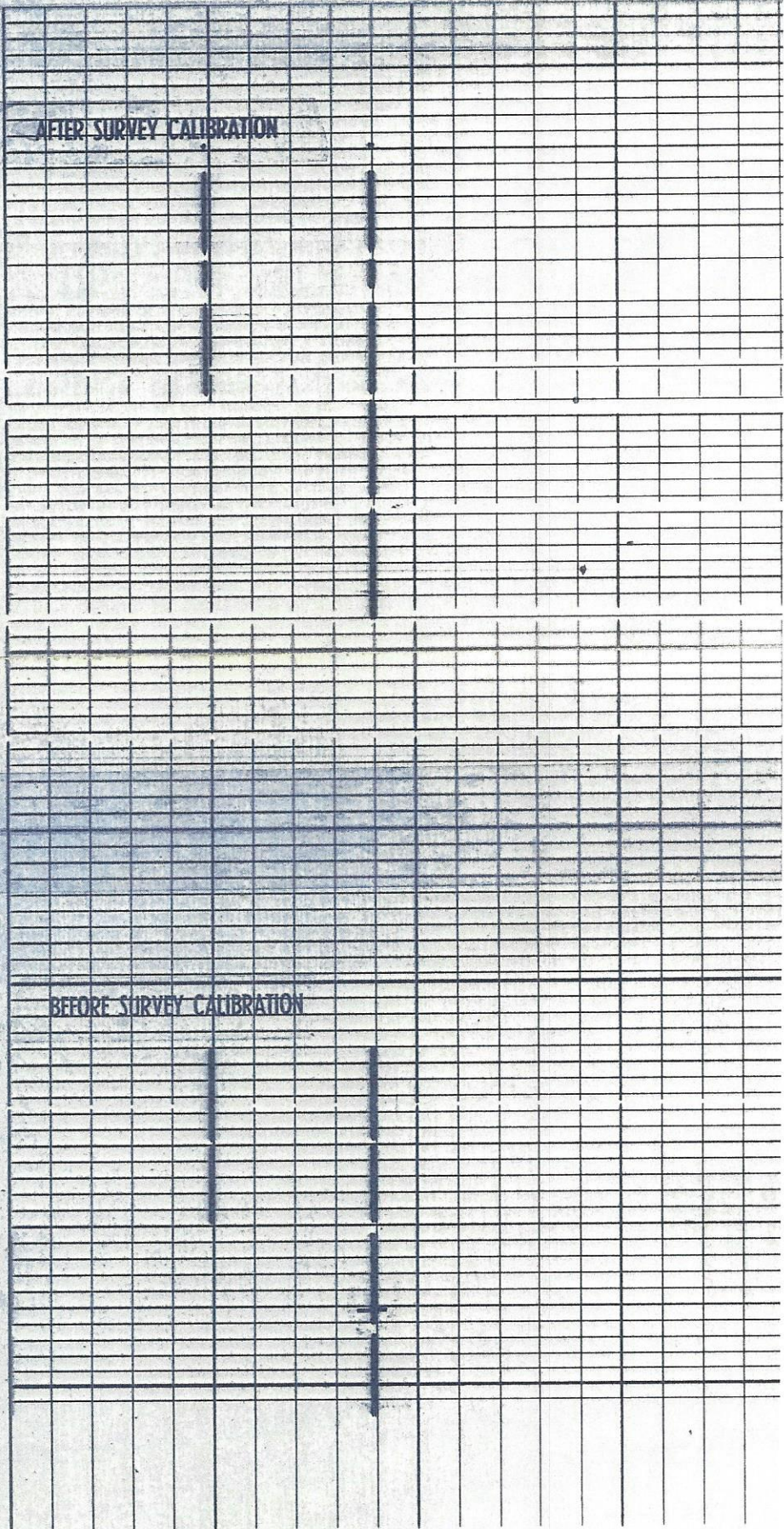


4

3

2

1



AFTER SURVEY CALIBRATION

BEFORE SURVEY CALIBRATION

4

3

2

1

CEMENT BOND CALIBRATION CODING

TRANSIT TIME		AMPLITUDE
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	240 $\mu$ sec	ELECTRICAL ZERO
3.	320 $\mu$ sec	CALIBRATE 50 MV (SLP-J SERIES)
4.	400 $\mu$ sec	CALIBRATE 50 MV



CEMENT BOND CALIBRATION CODING

TRANSIT TIME		AMPLITUDE
1.	MECHANICAL ZERO	MECHANICAL ZERO
2.	240 $\mu$ sec	ELECTRICAL ZERO
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