



ACOUSTIC CEMENT  
BOND LOG

COMPANY CHEVRON USA, INC.  
WELL EMERALD 79X  
FIELD RANGELY  
COUNTY RIO BLANCO STATE COLO.

COMPANY CHEVRON USA, INC.

FL EMERALD 79X

CD RANGELY

COUNTY RIO BLANCO STATE COLORADO

Other Services

1435' FSL  
1321' FEL

26 Twp 2N Rge 103W

UND LEVEL Elev 5513.7

LY BUSHING 16.9 ft Above Perm Datum

LY BUSHING

84

P.B.

7'

FACE

MEASURED

Surface String

Protection String

Production String

Liner

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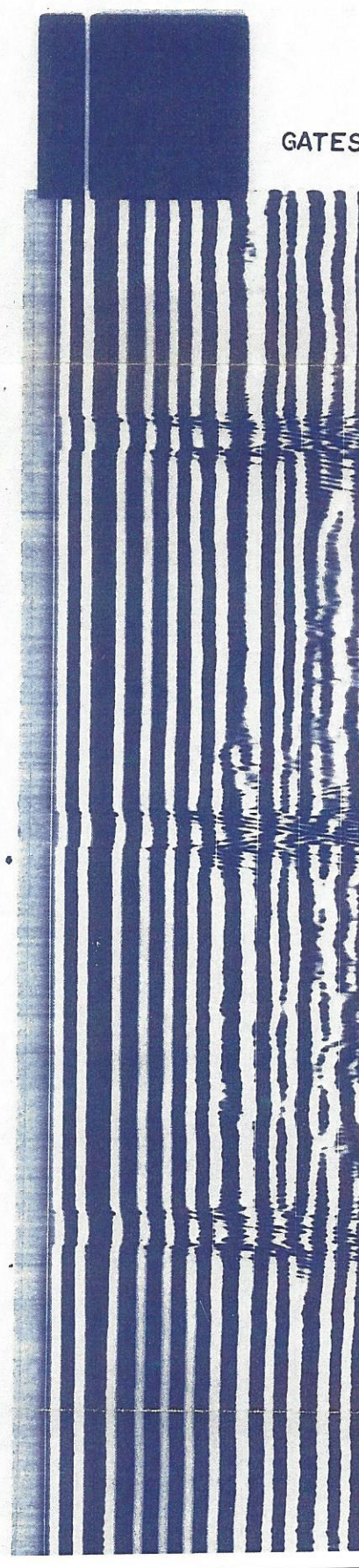
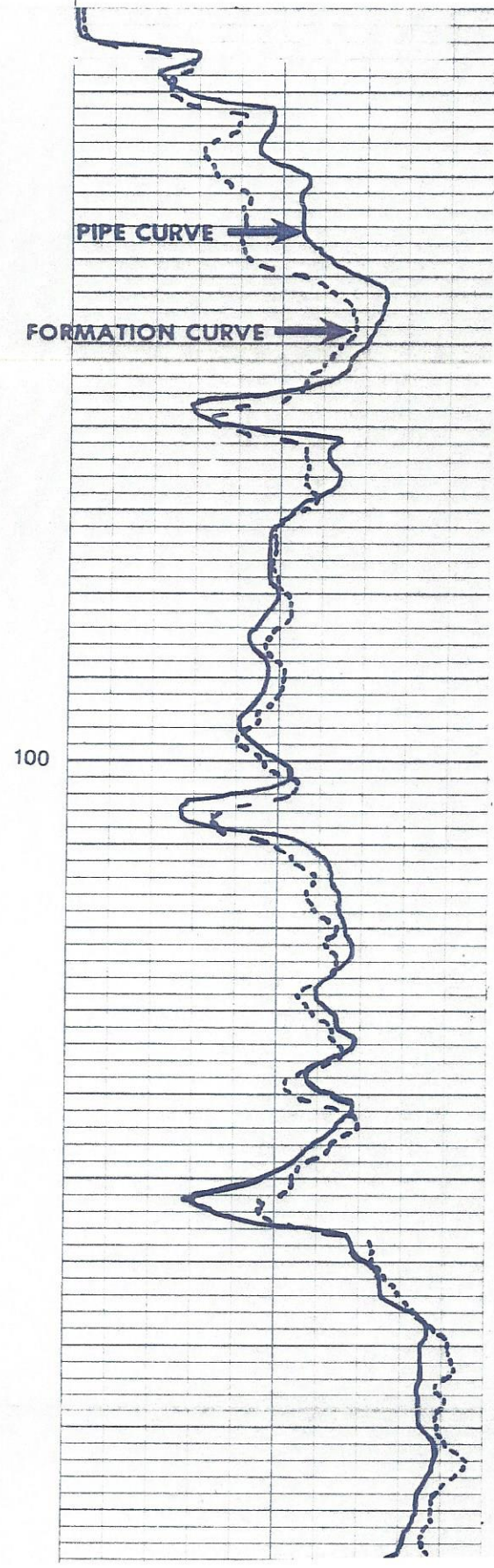
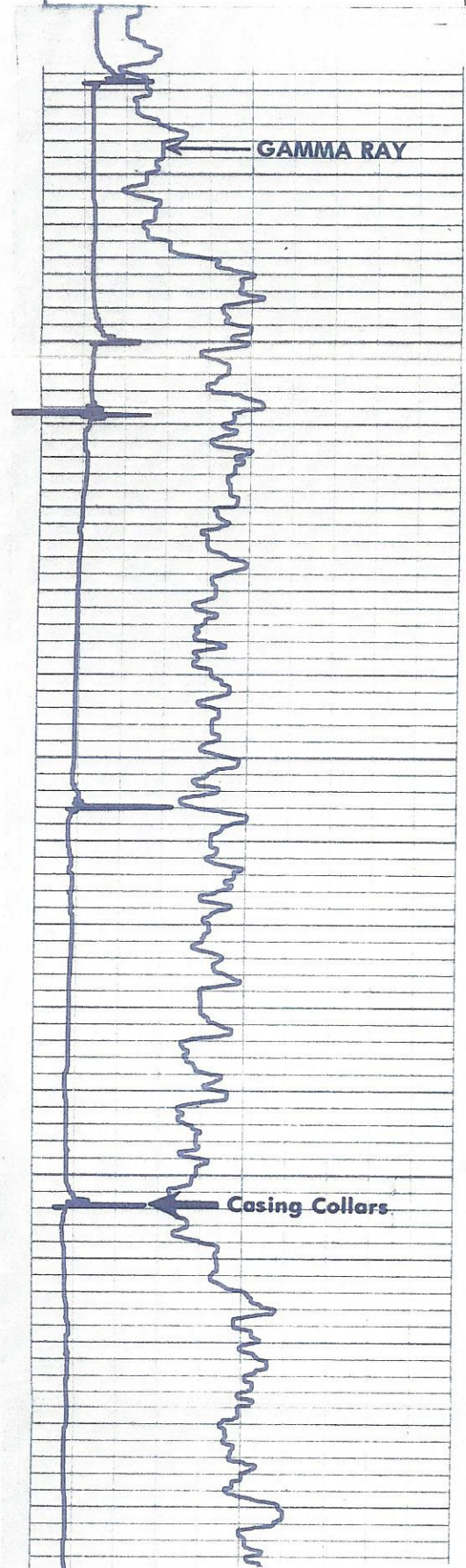
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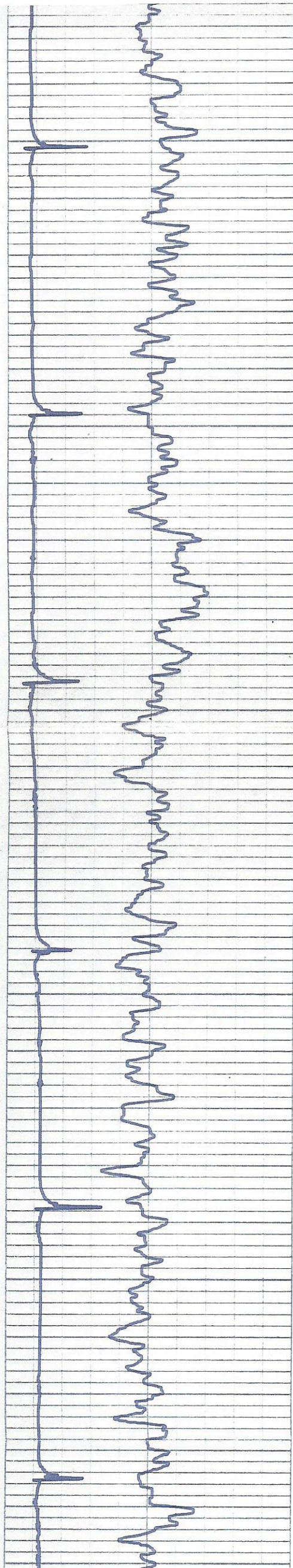
6' GR  
16' TRANS  
20' REC.

Welex is not responsible for the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log. Any use of log data, interpretation, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or willful misconduct for any loss, damages, expenses or litigation resulting therefrom.

GAMMA API Gamma Ray Units		DEPTH	AMPLITUDE		MICRO-SEISMOGRAM <sup>®</sup> L
0	150		PIPE		
150	250		FORMATION		
				200 u sec	



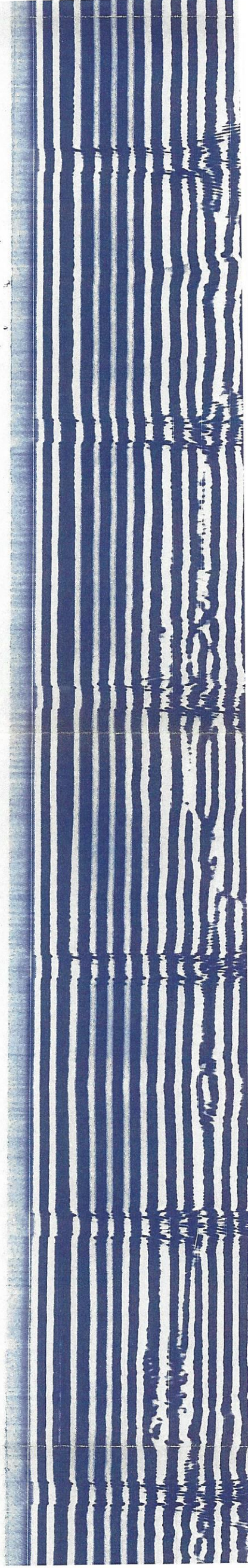
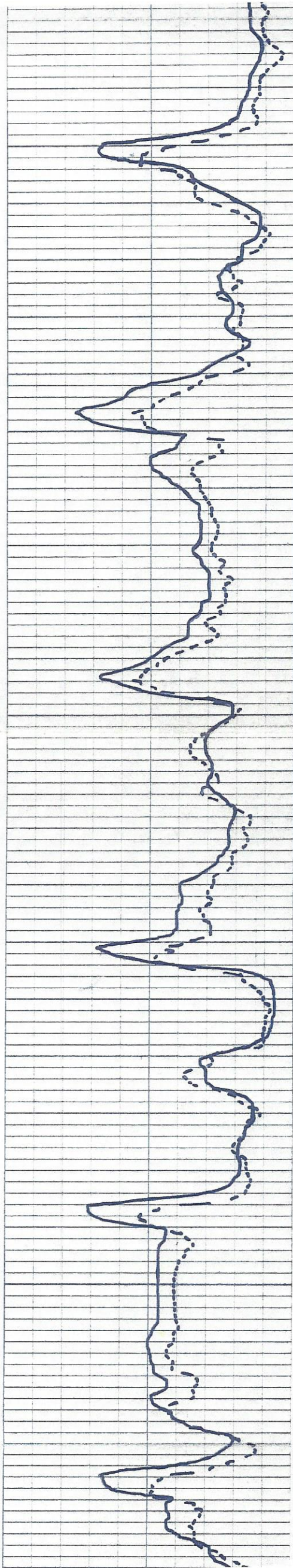




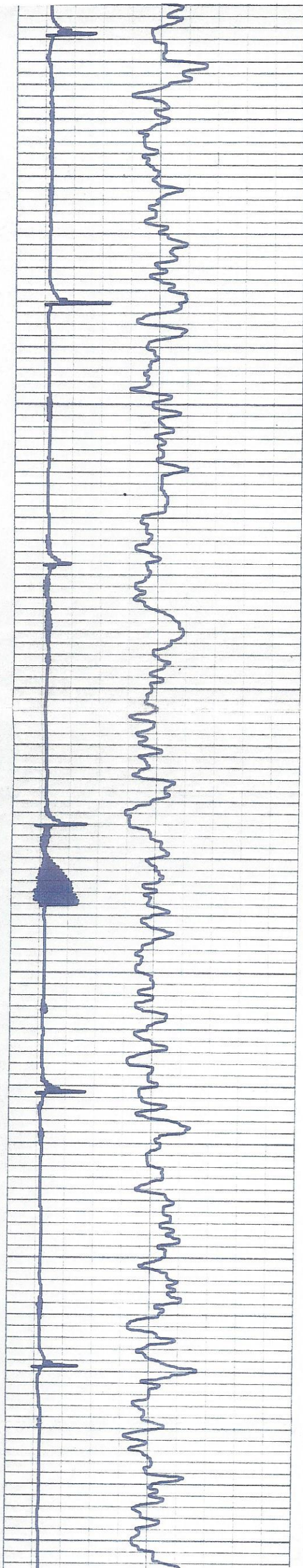
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300

400



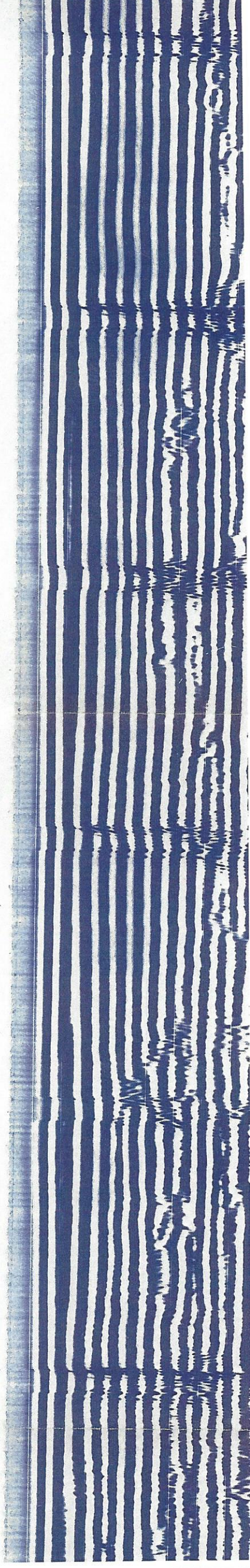
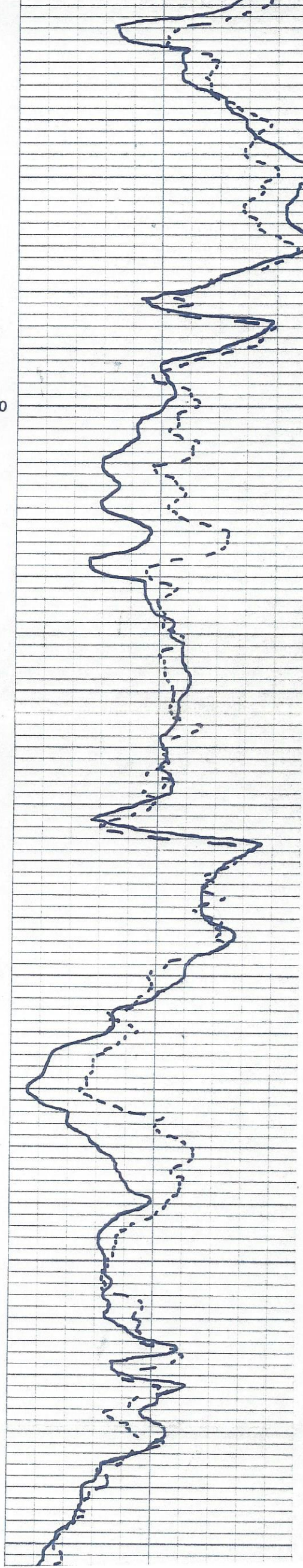




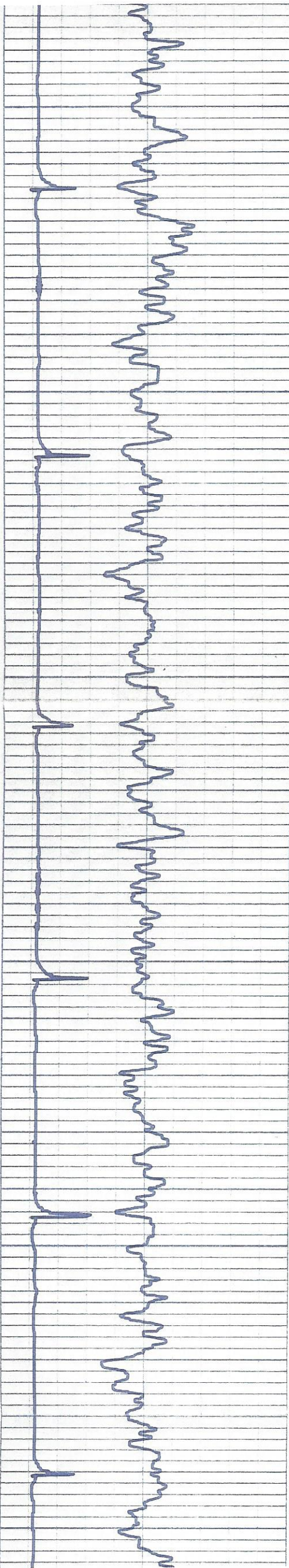
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600

700



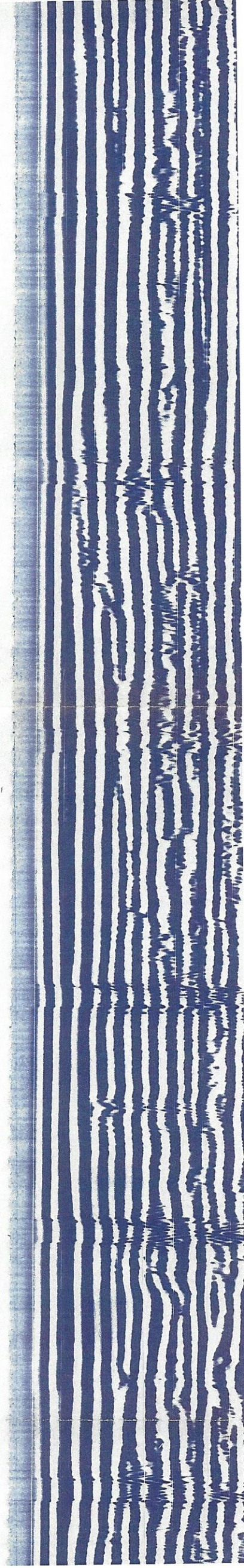
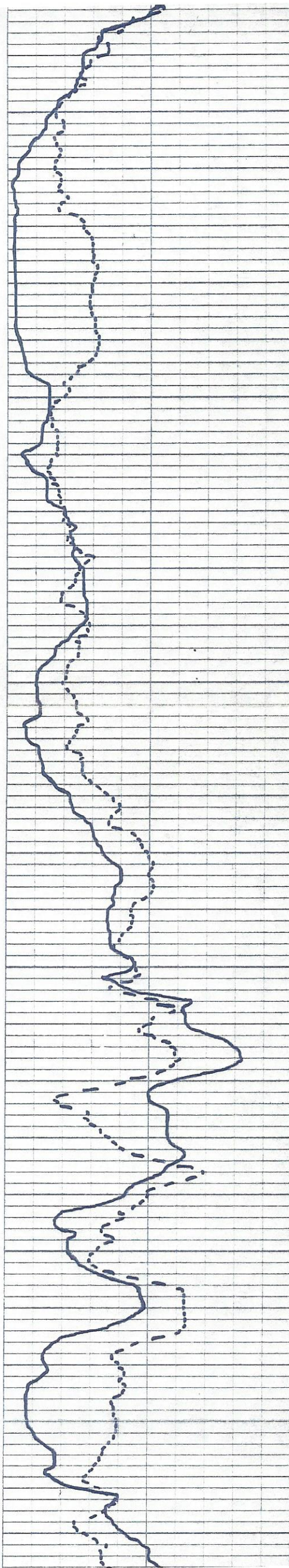




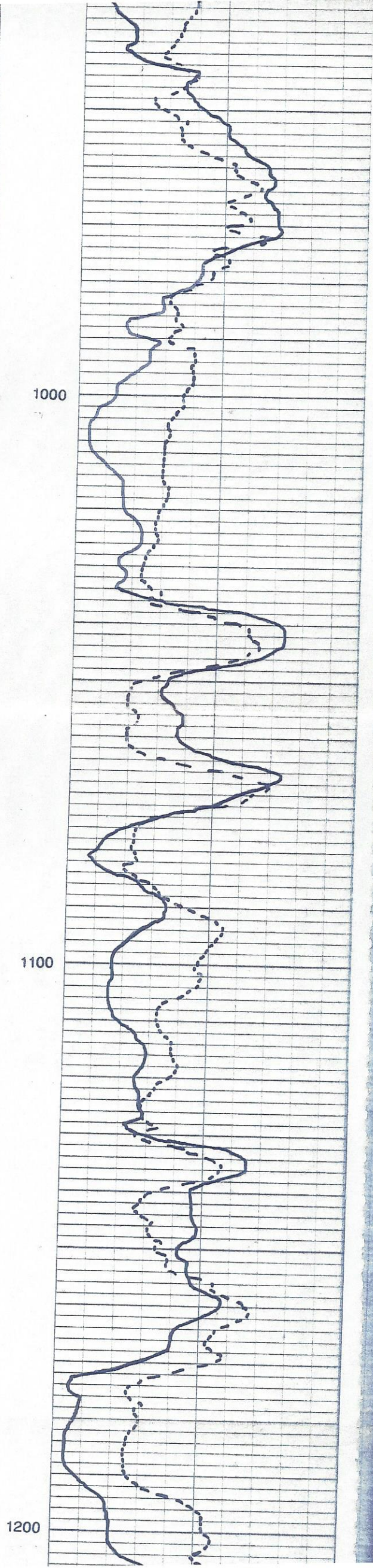
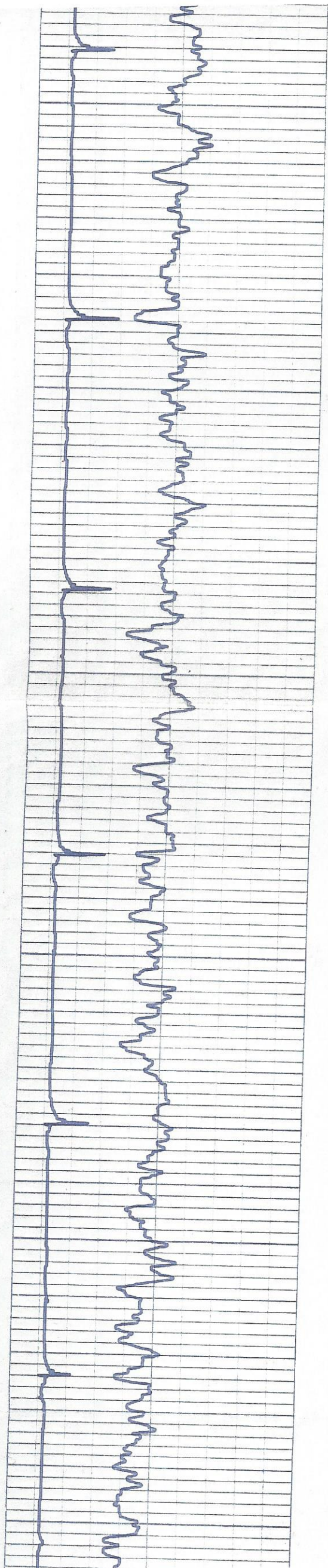
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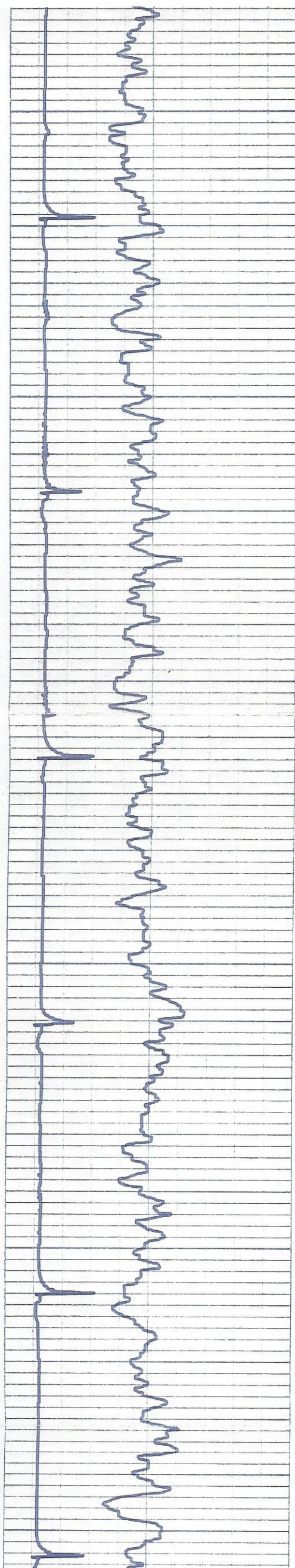
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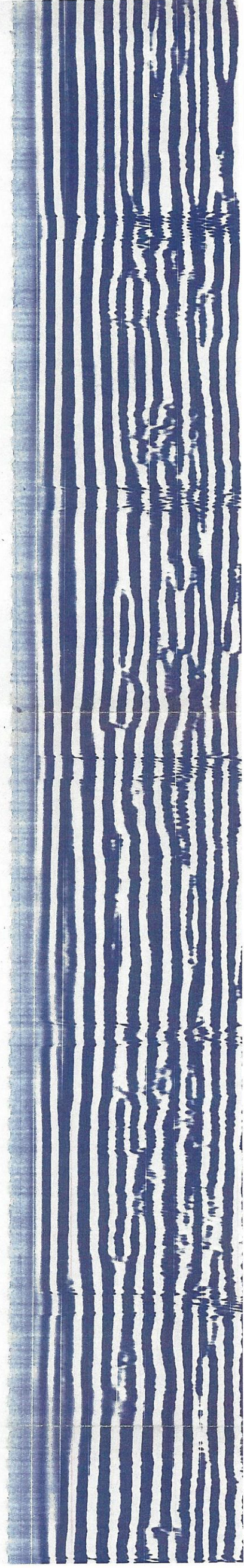
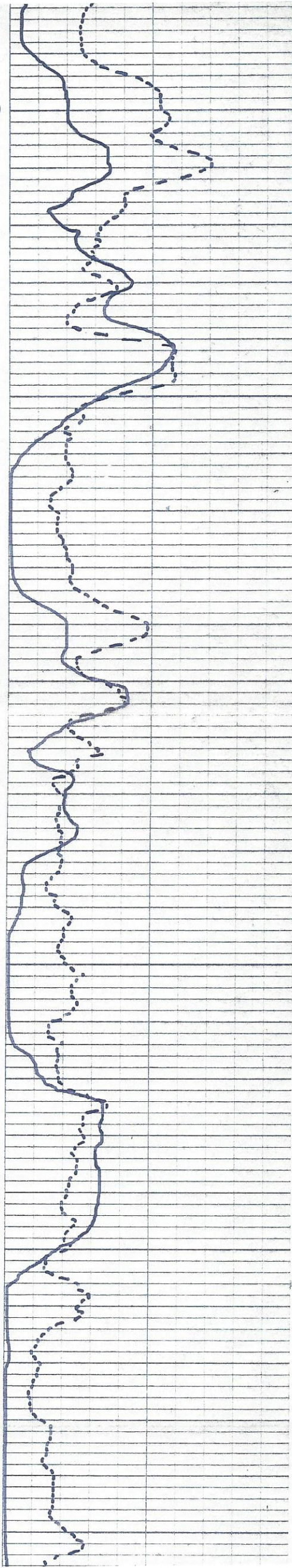




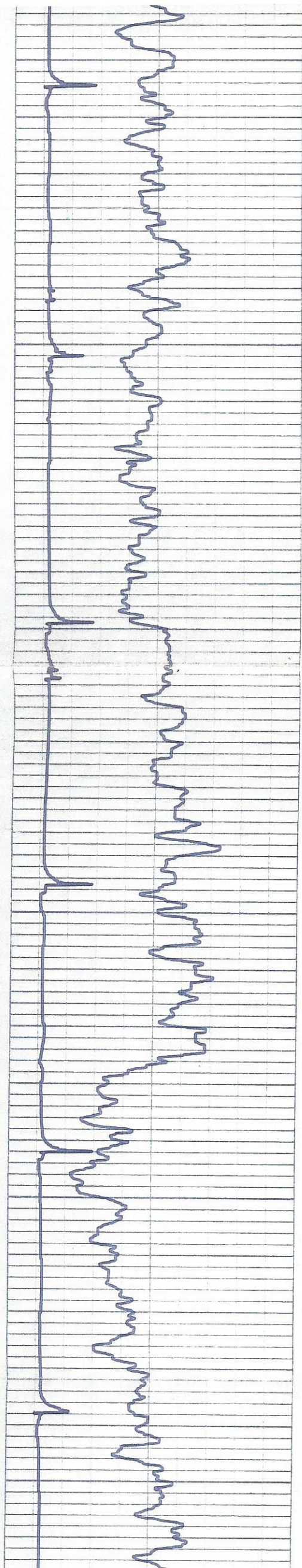
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1300

1400



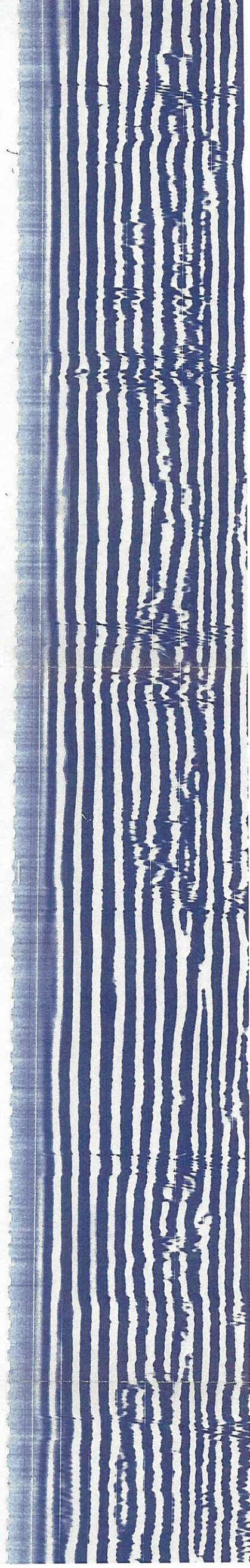
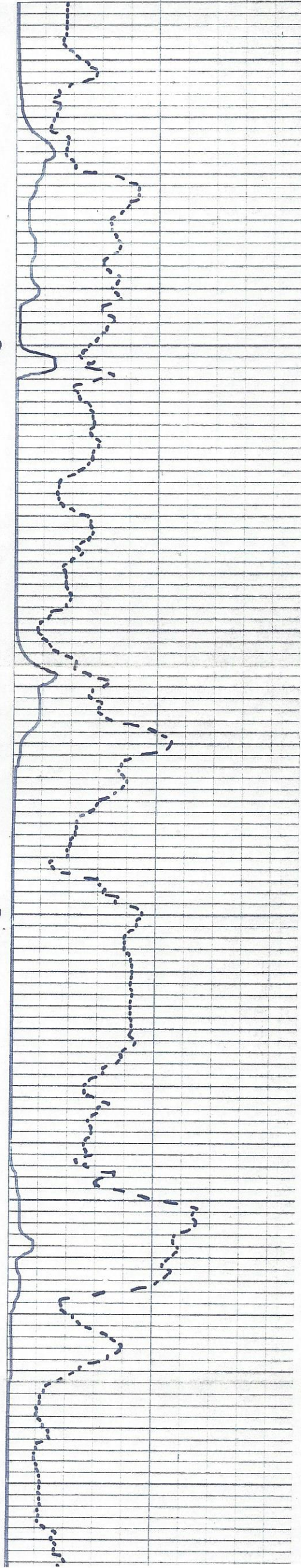




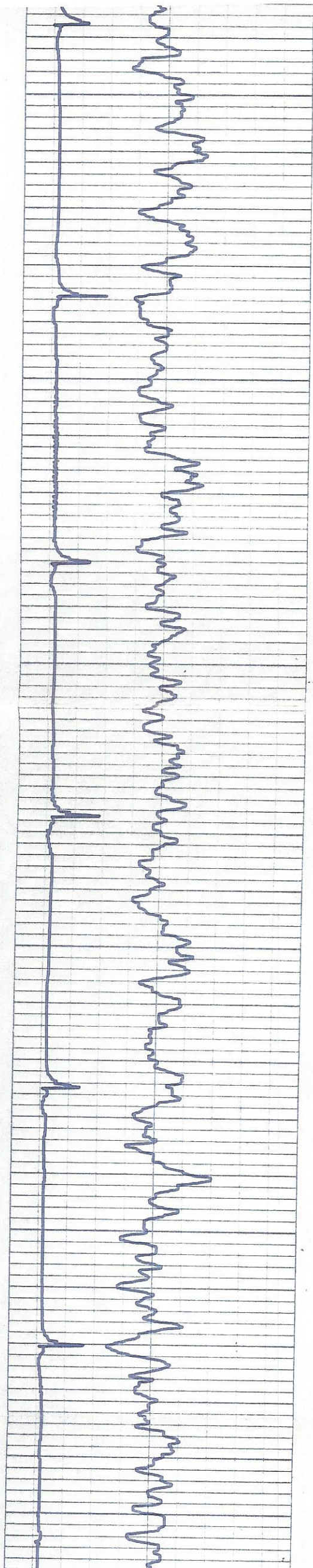
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1600

1700



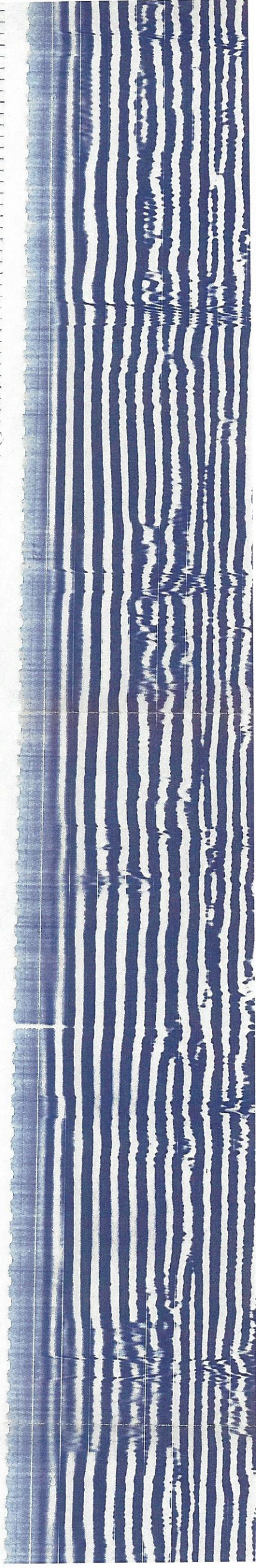
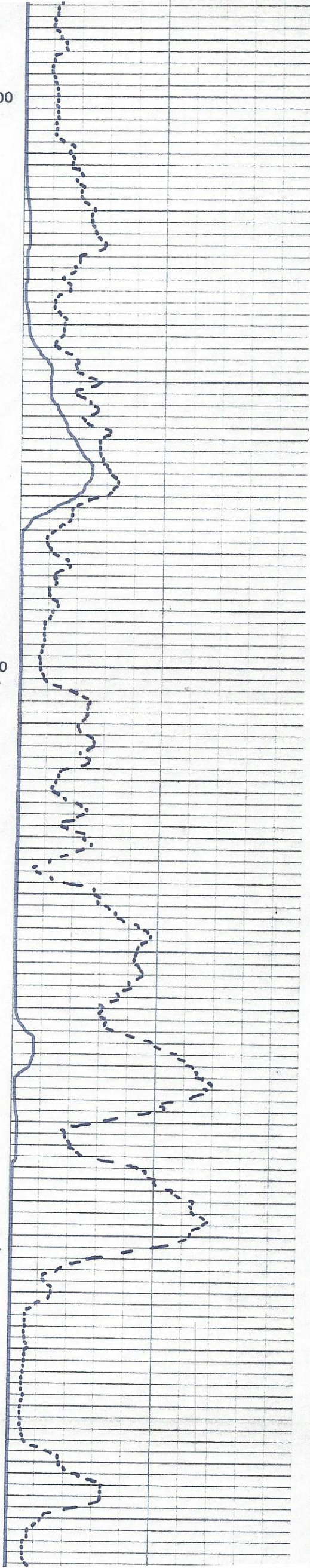




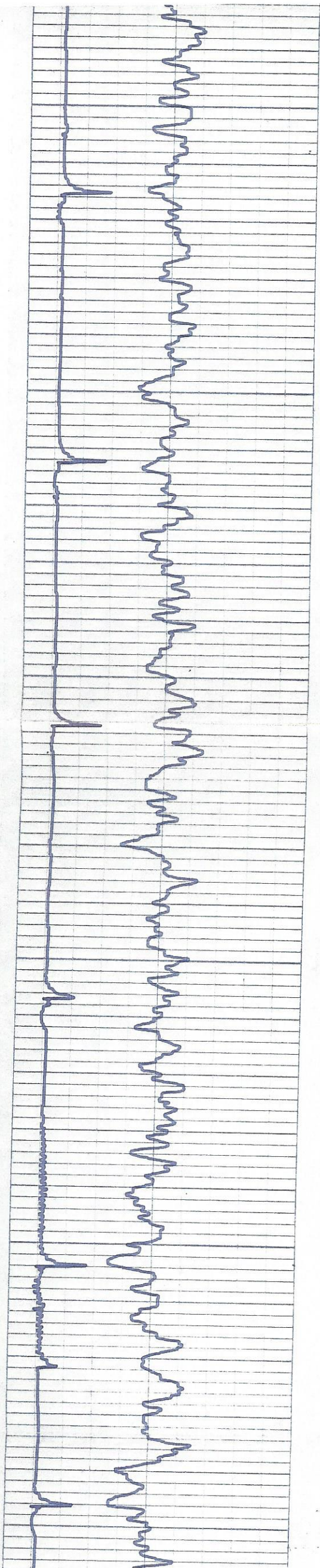
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1800

1900



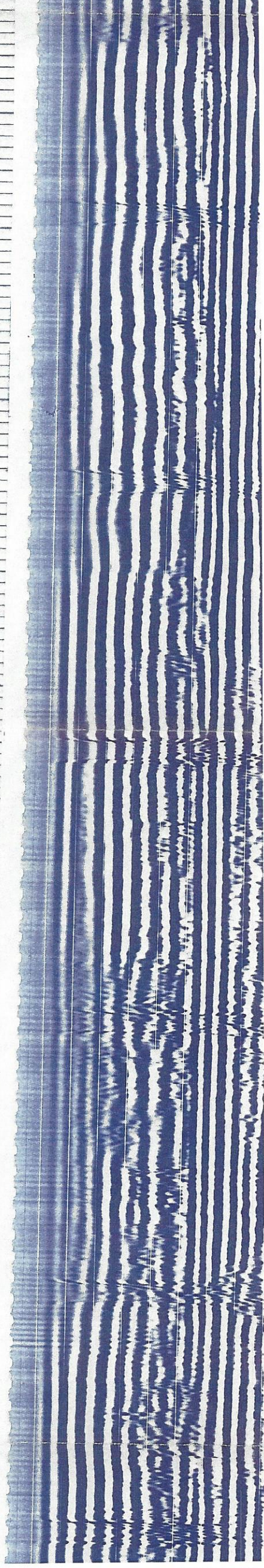
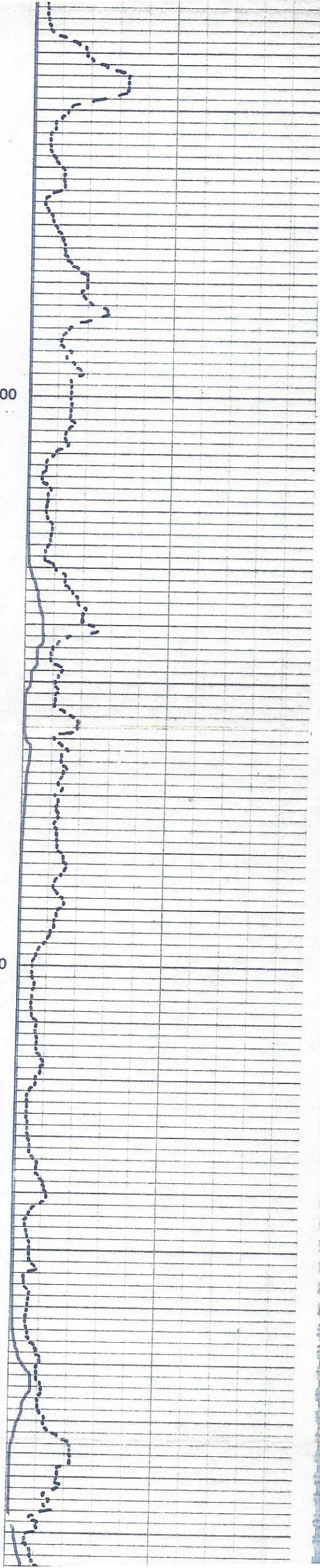




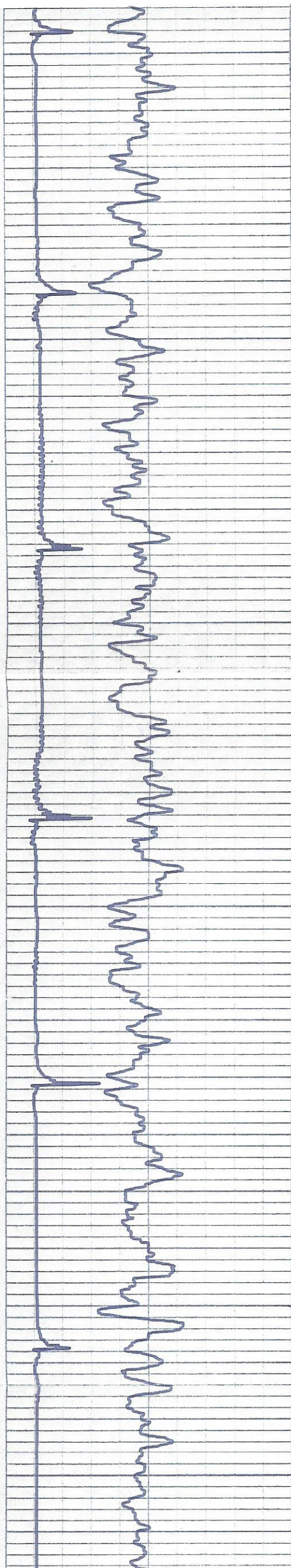
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2200



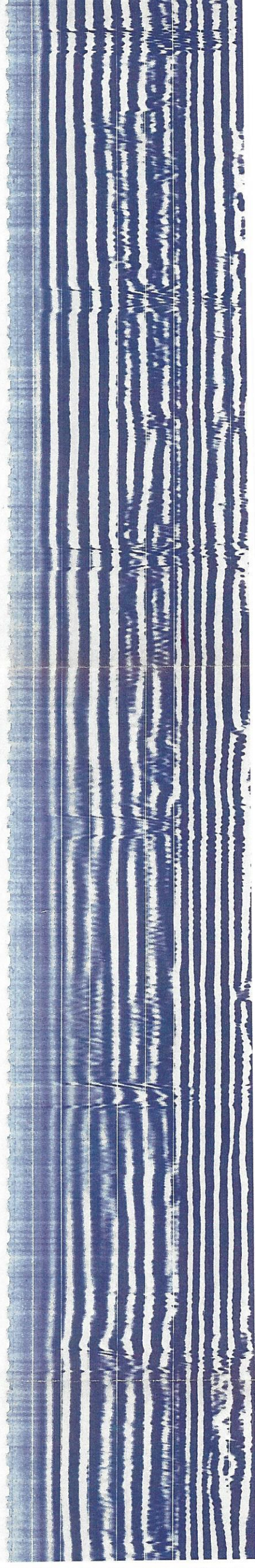
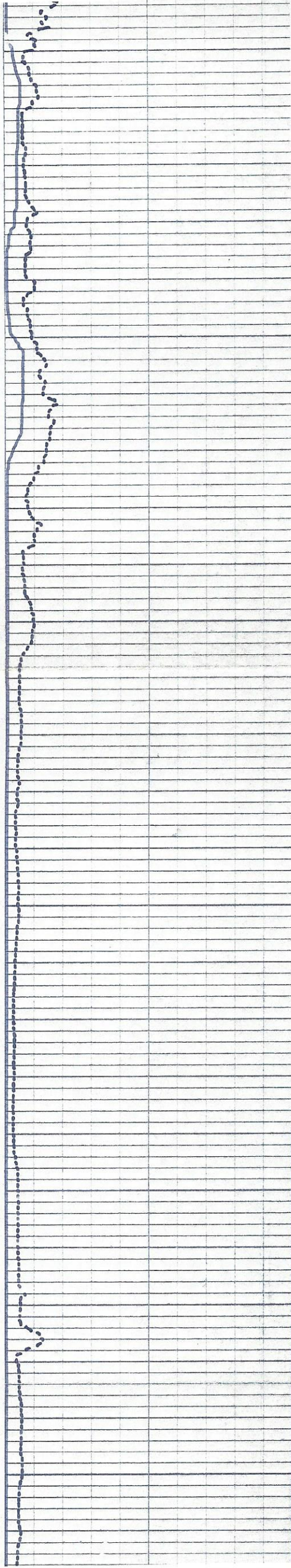




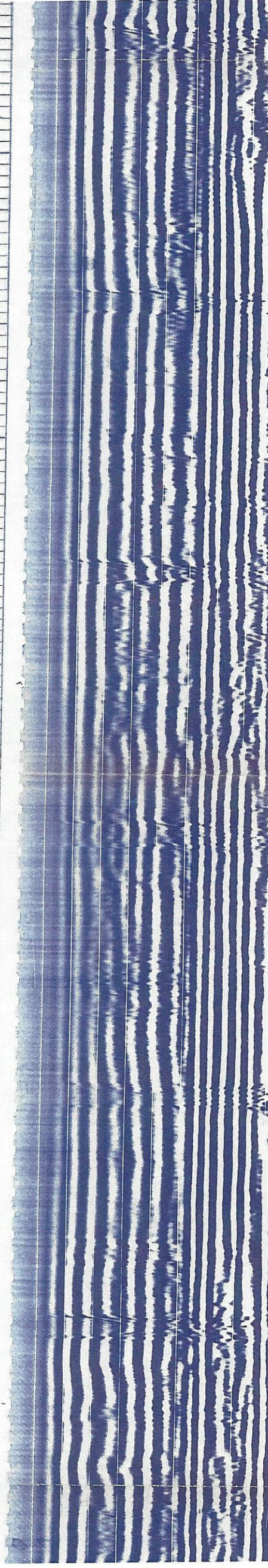
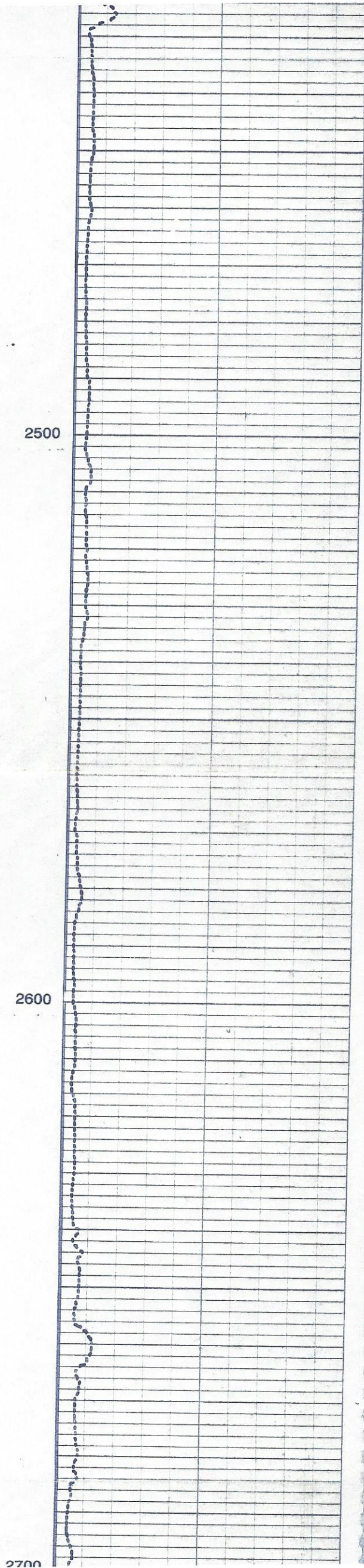
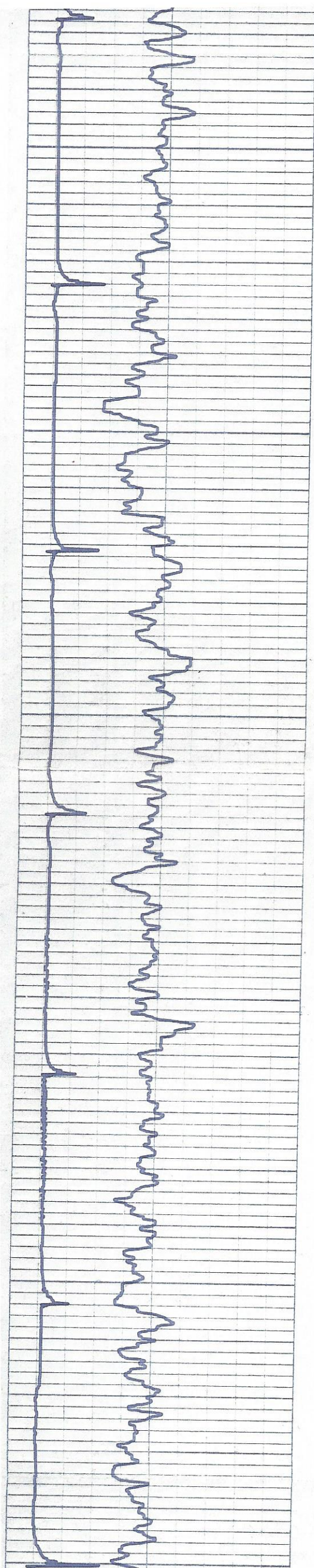
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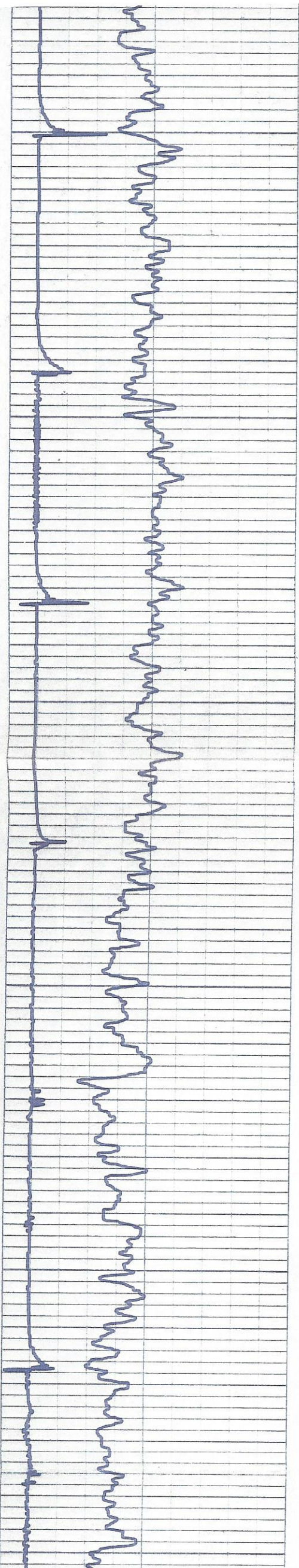
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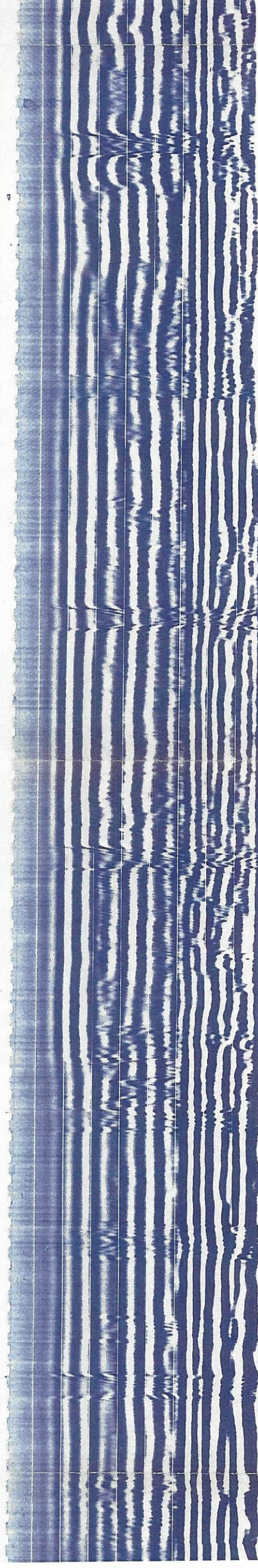
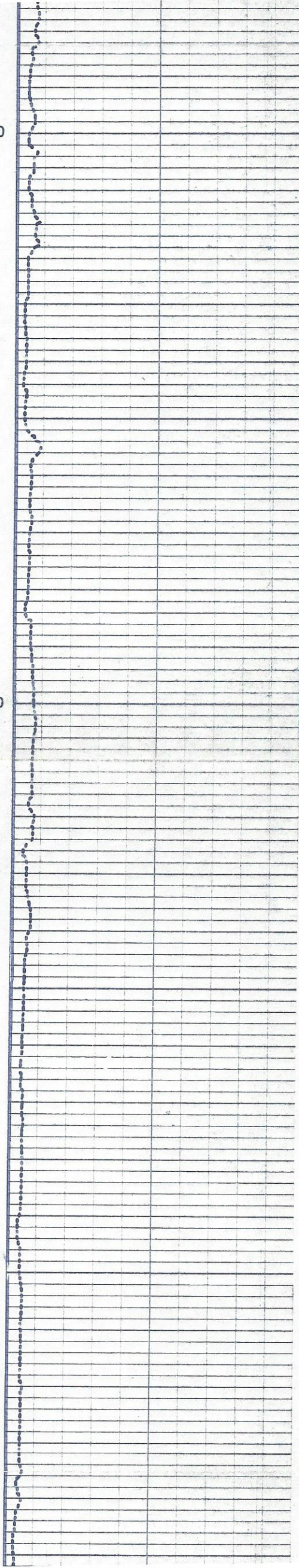




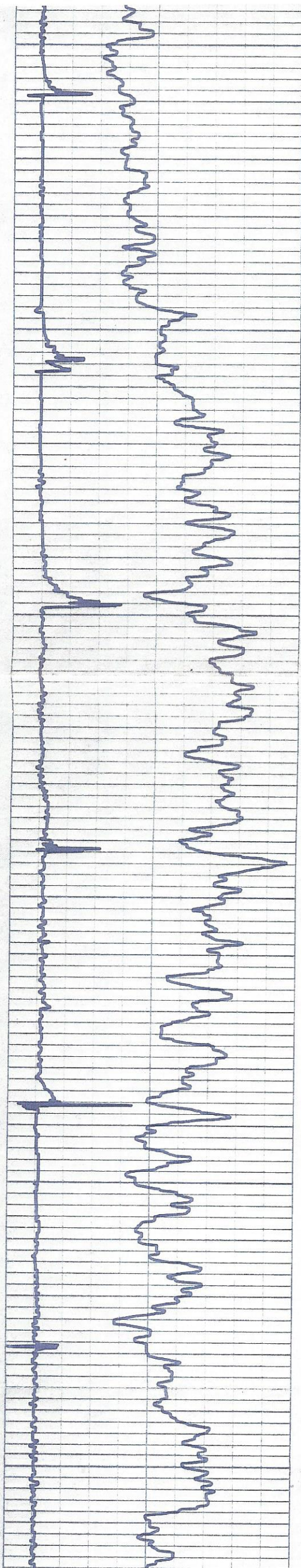
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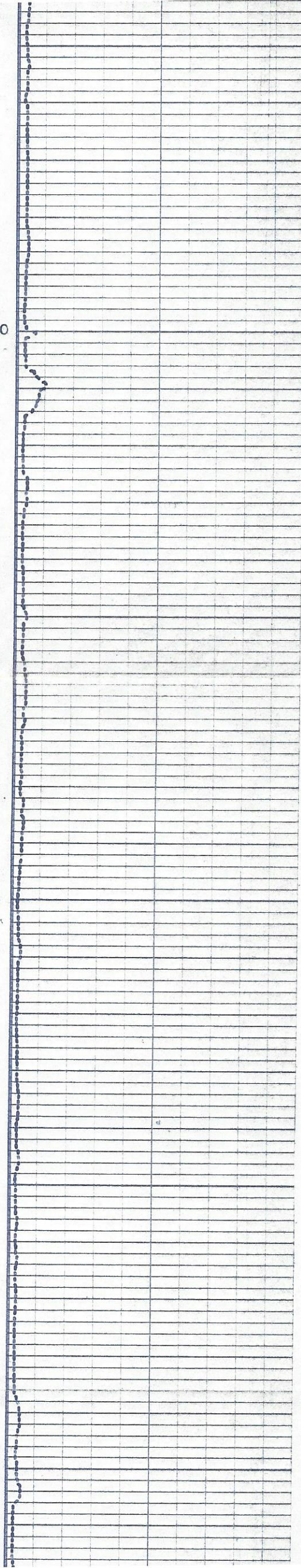




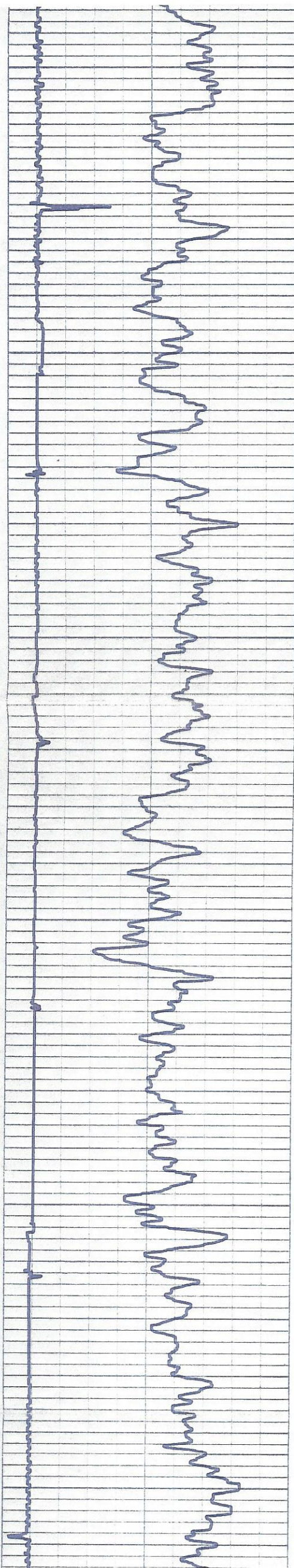
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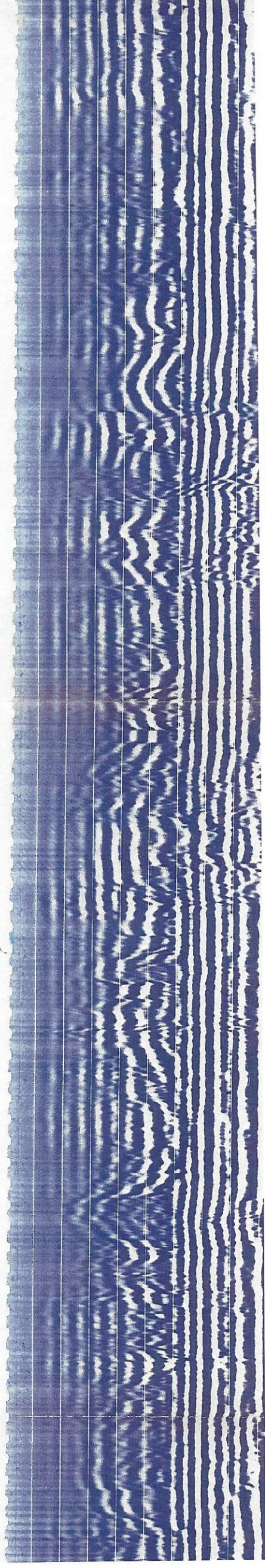
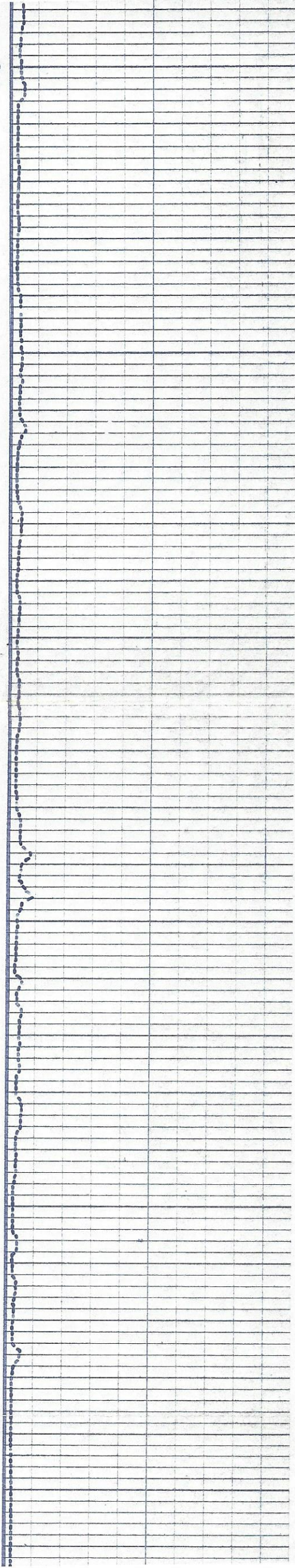




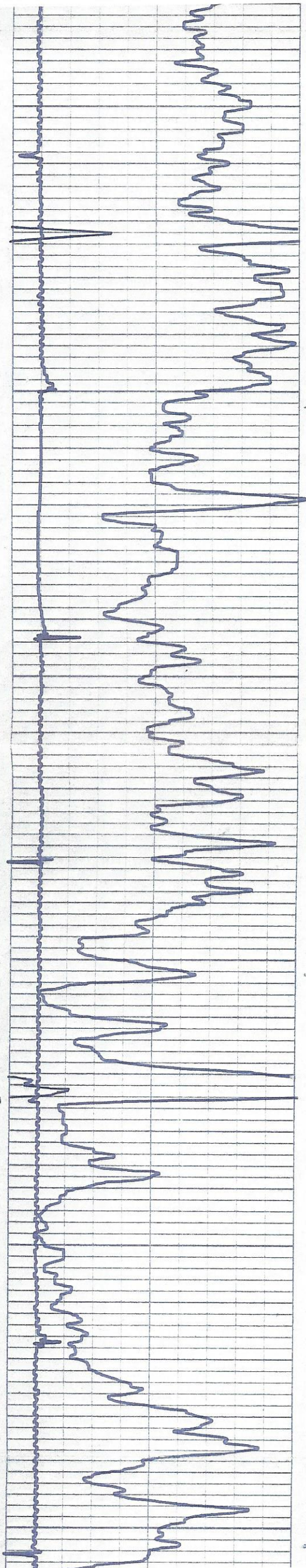
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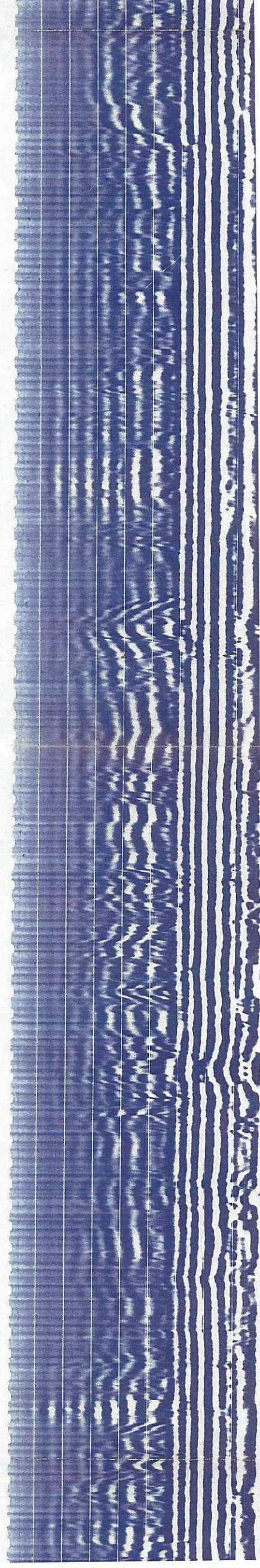
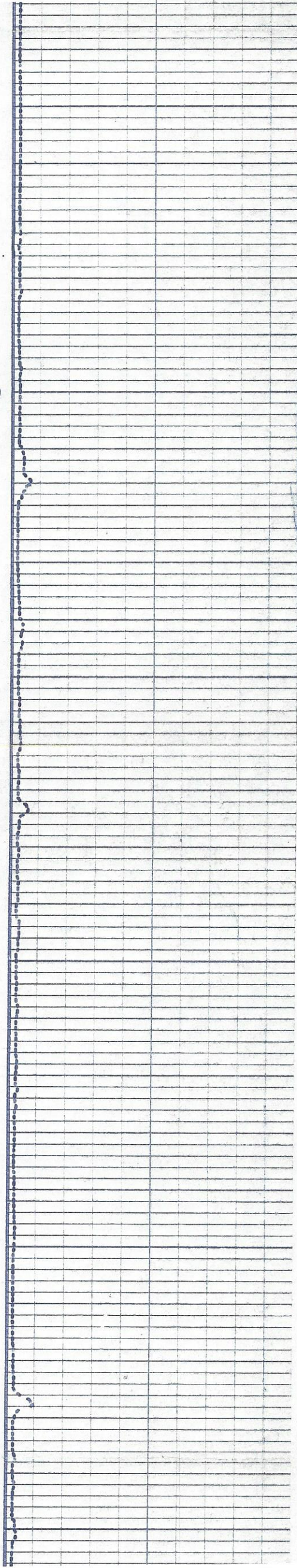




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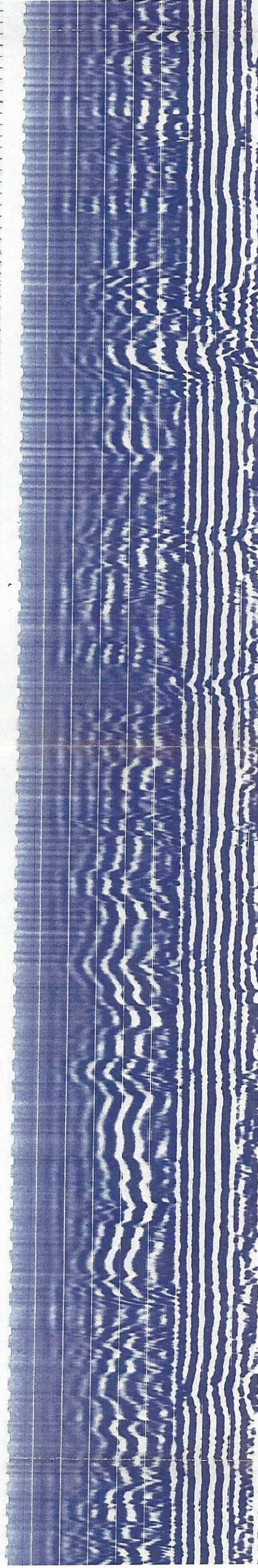
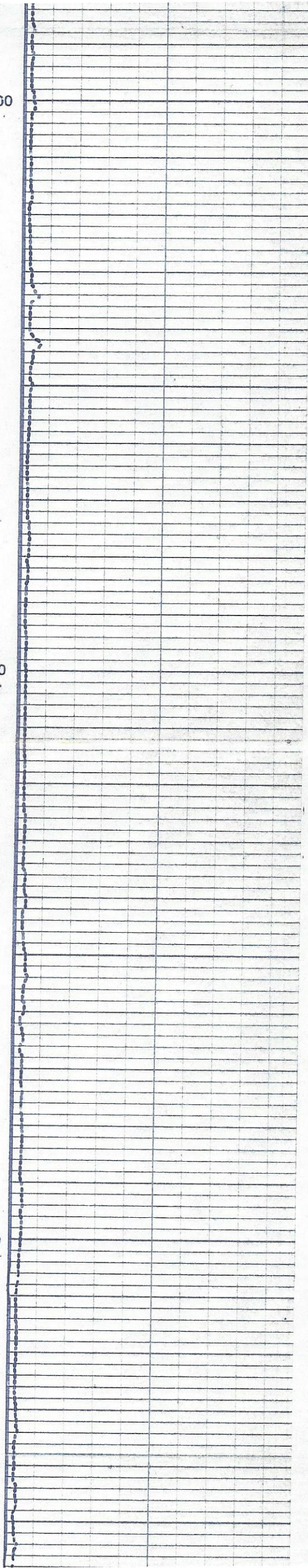
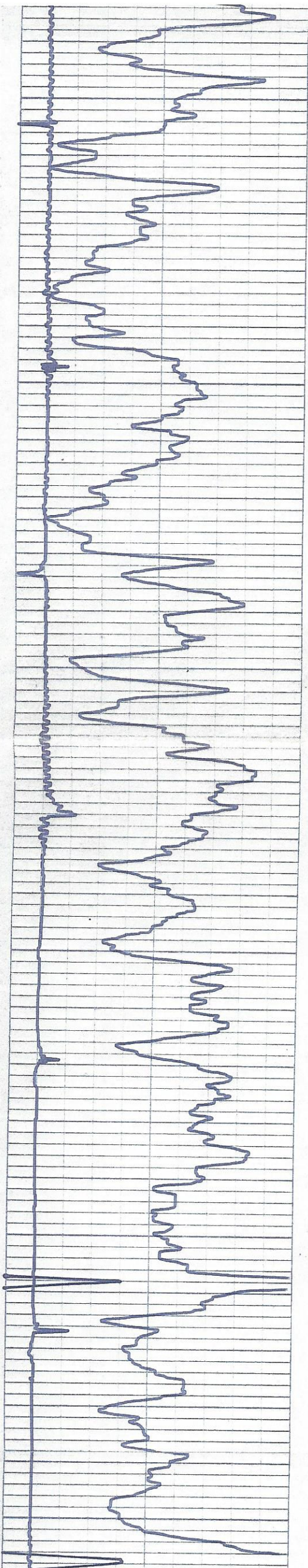




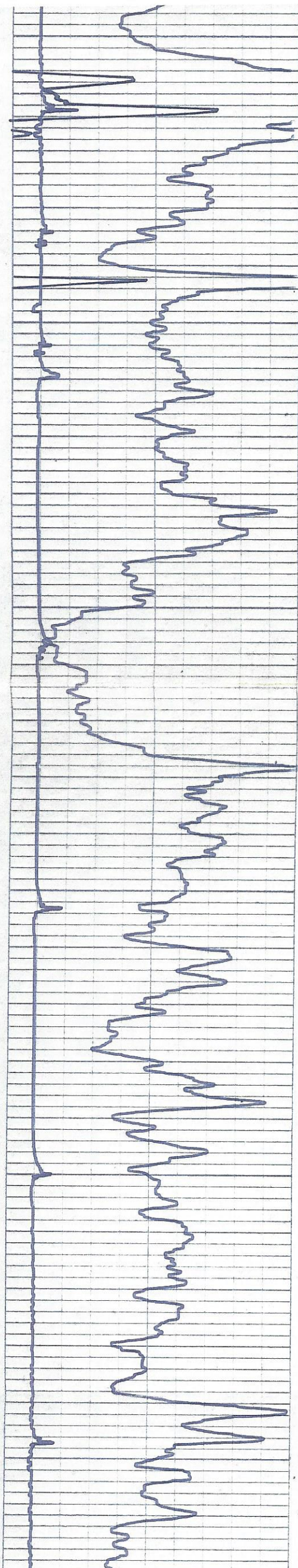
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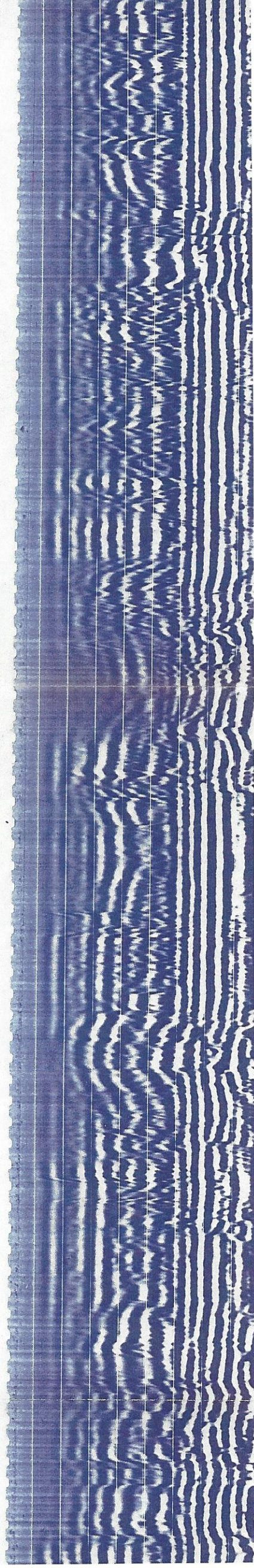
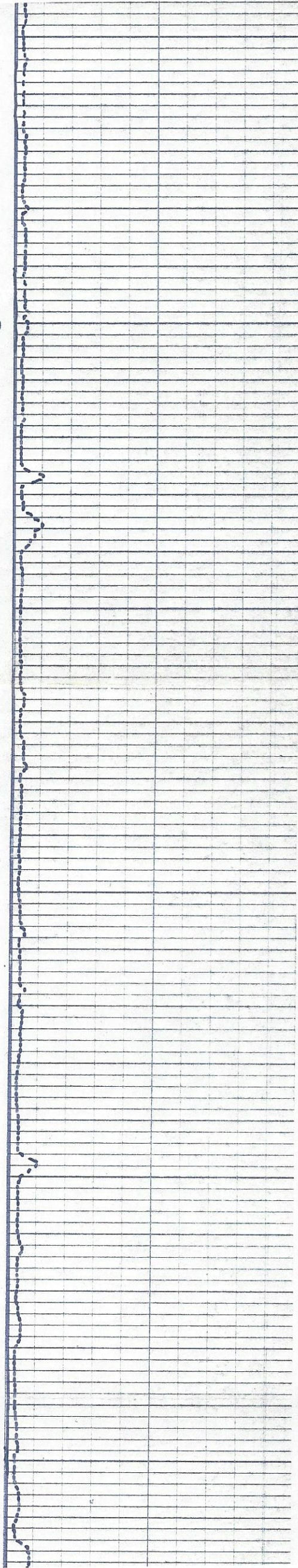




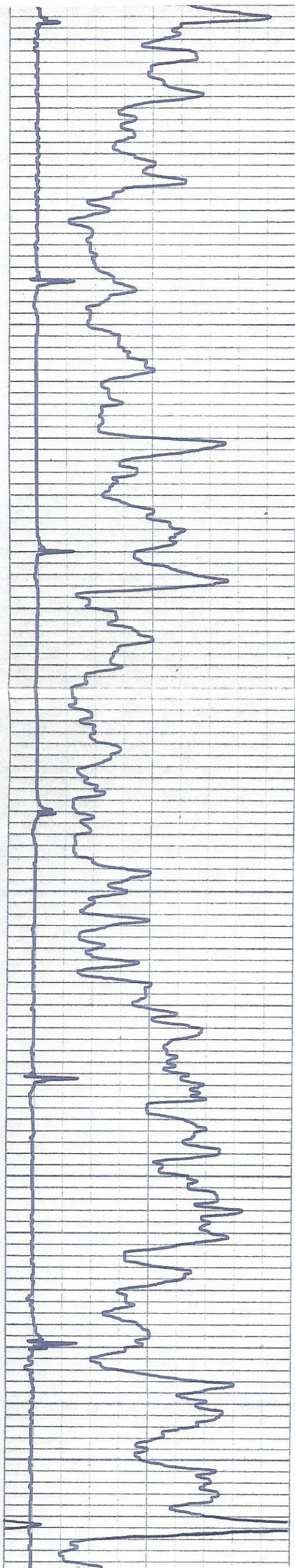
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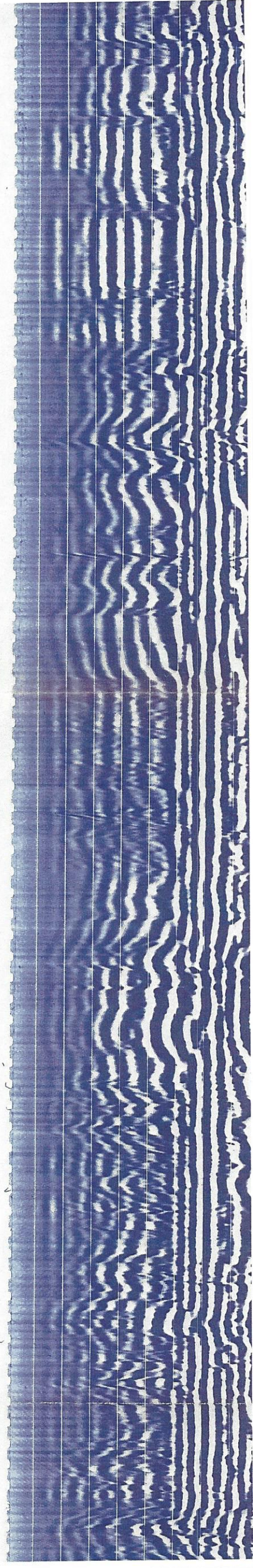
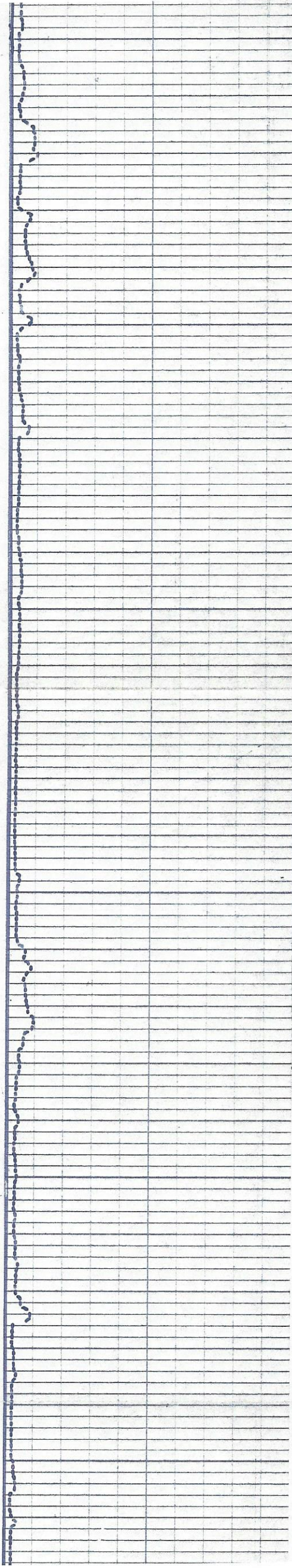




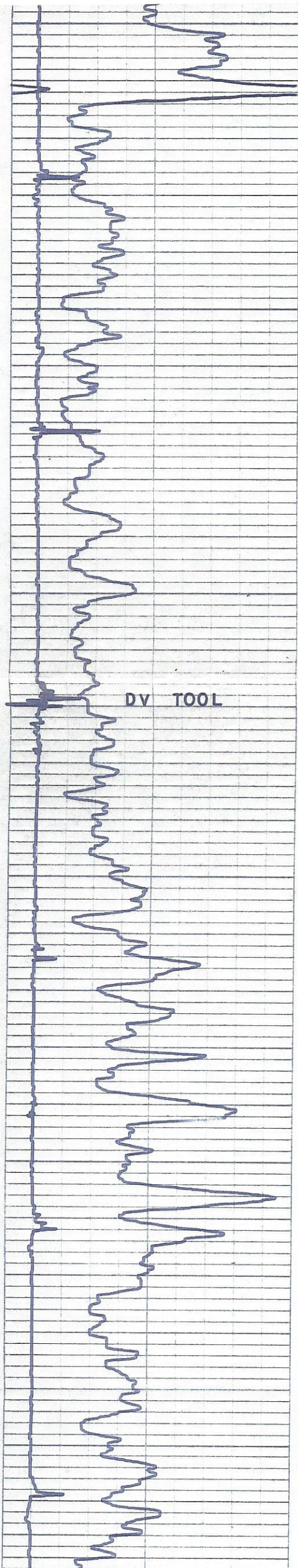
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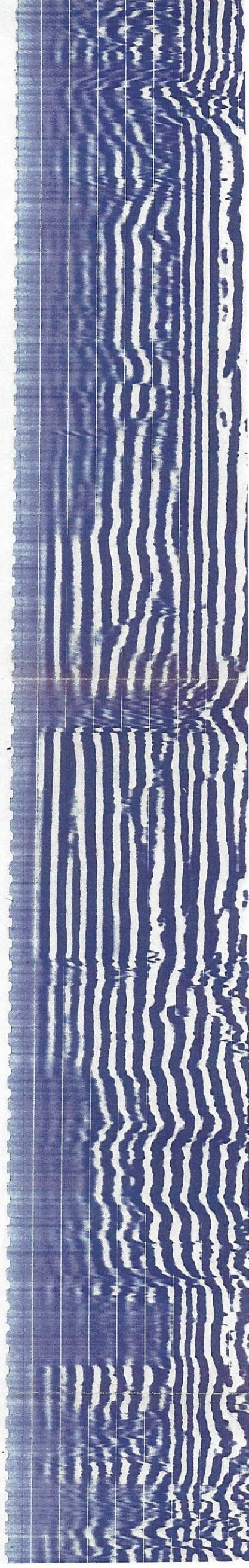
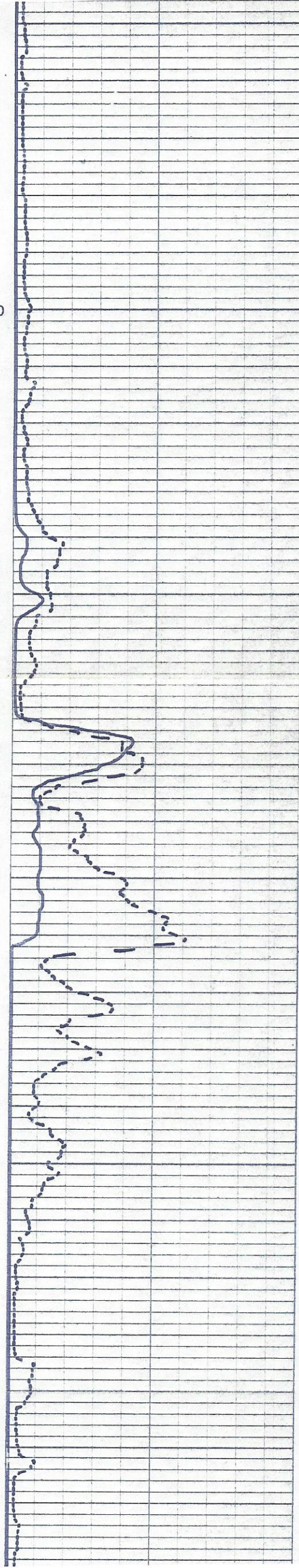




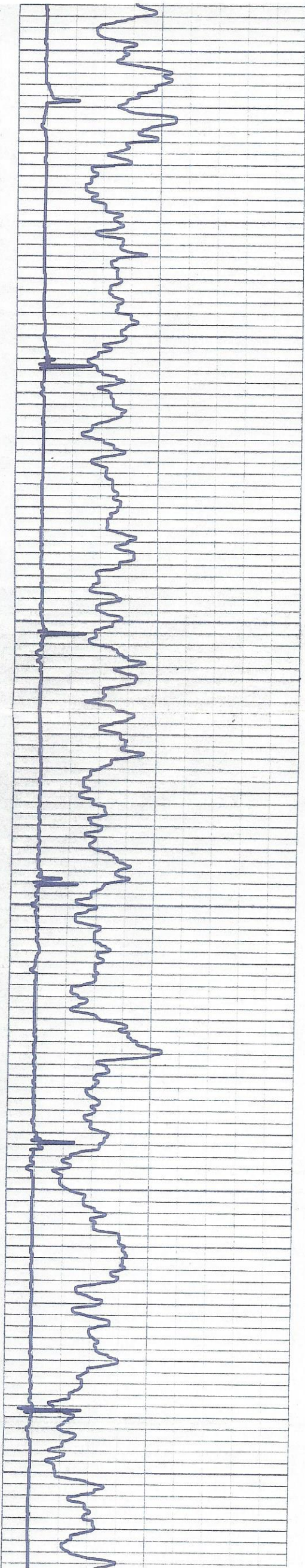
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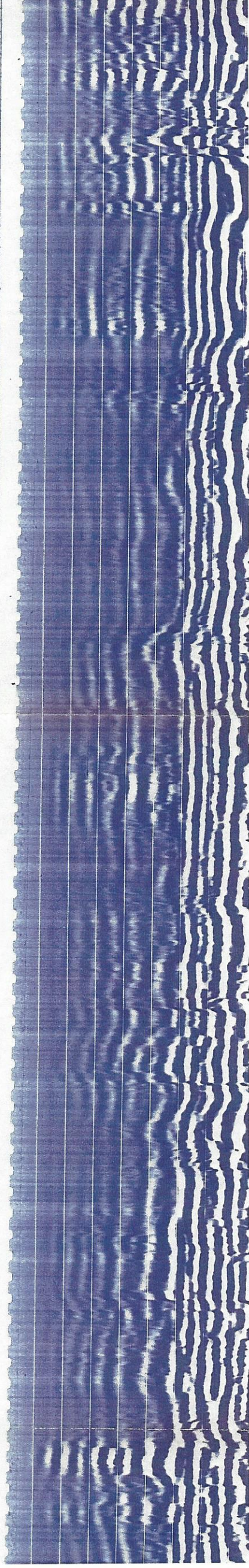
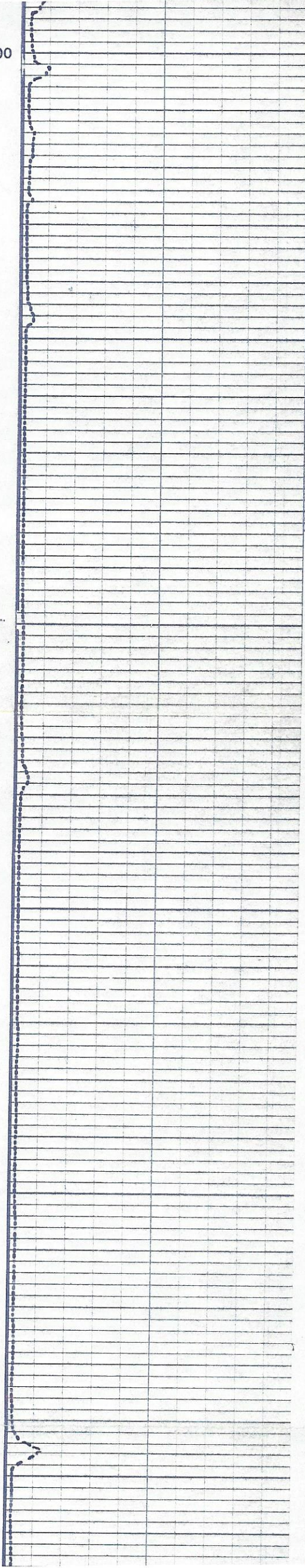




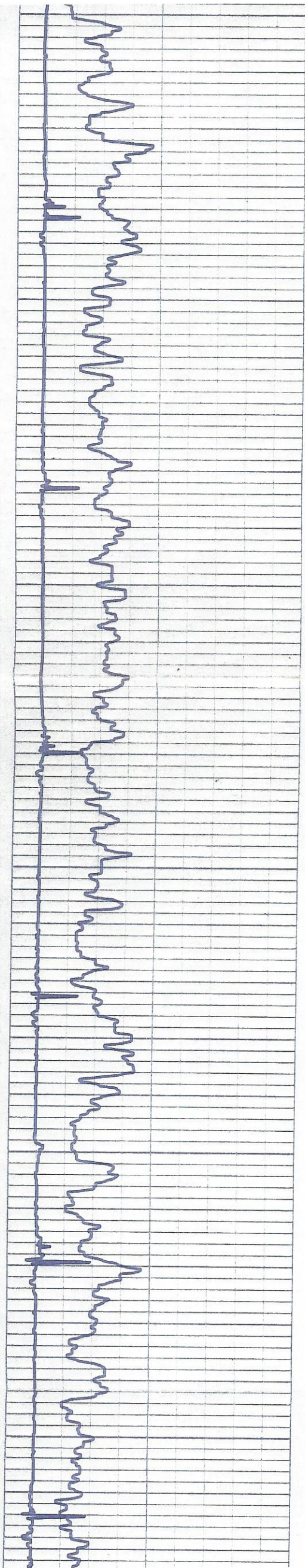
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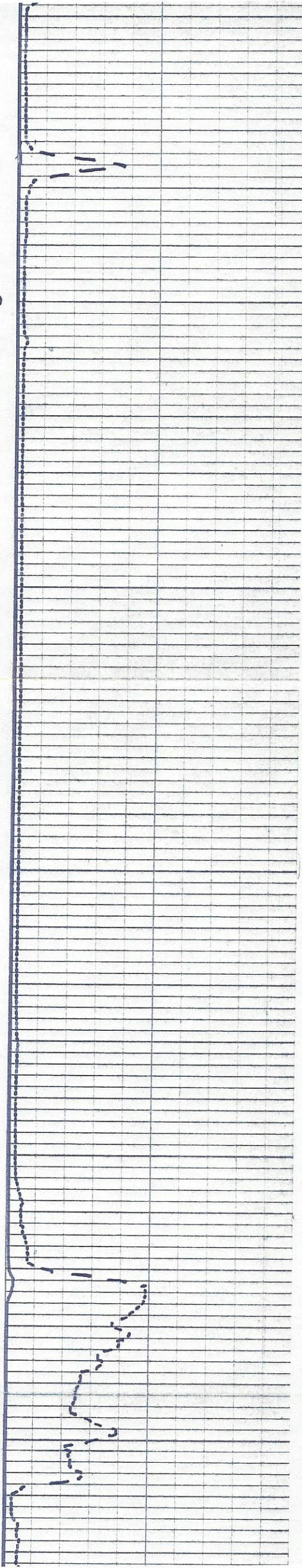




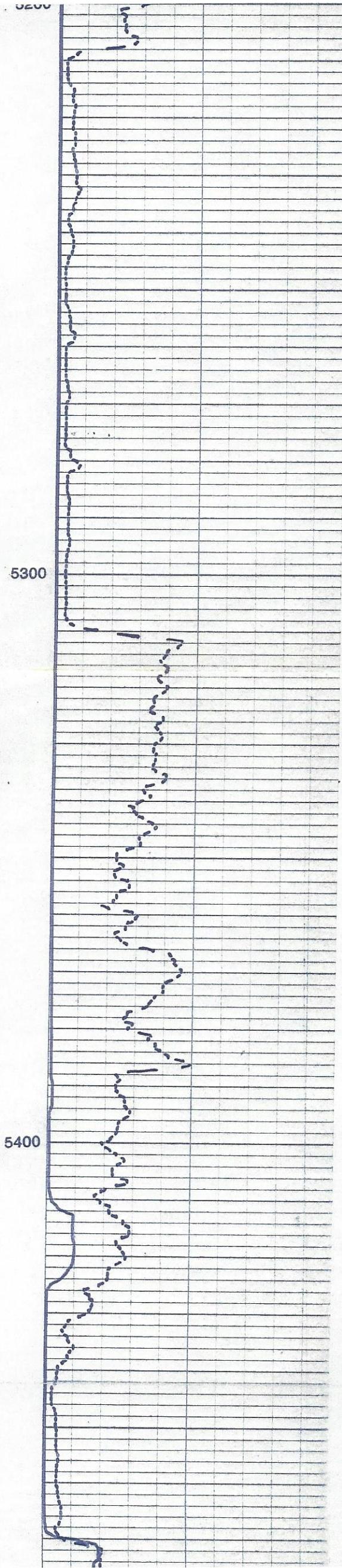
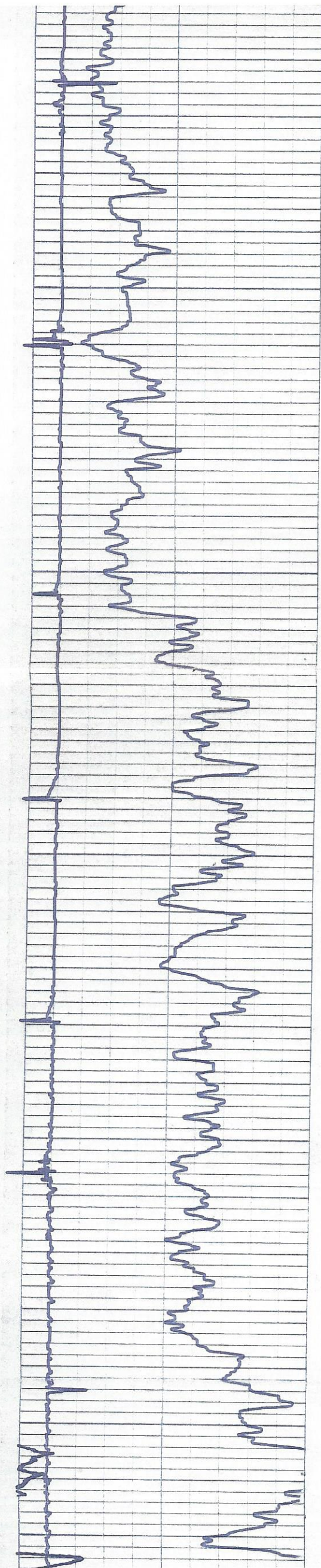
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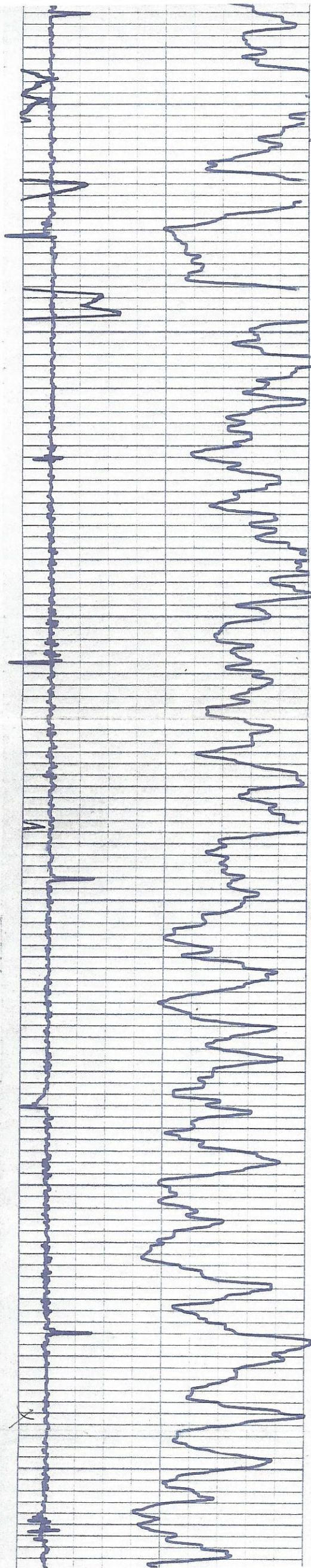
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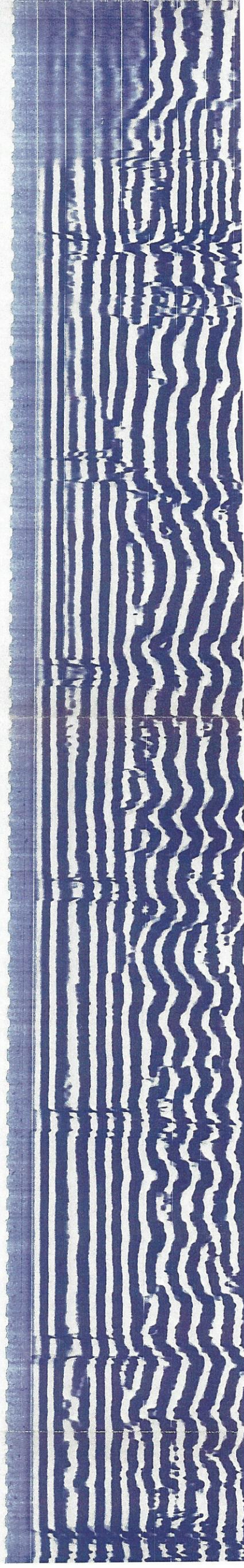
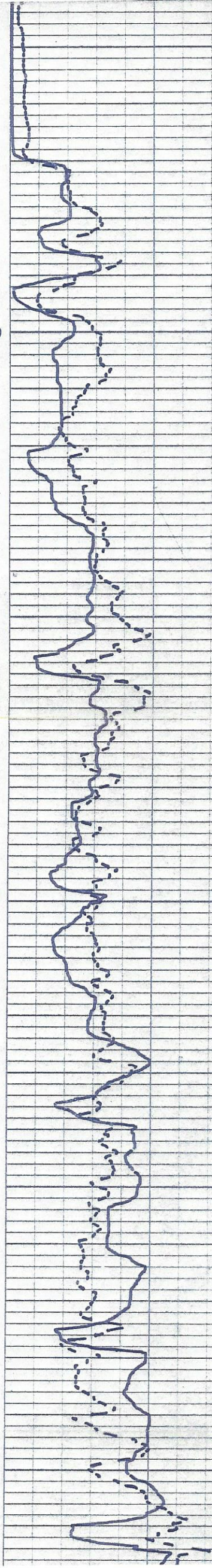




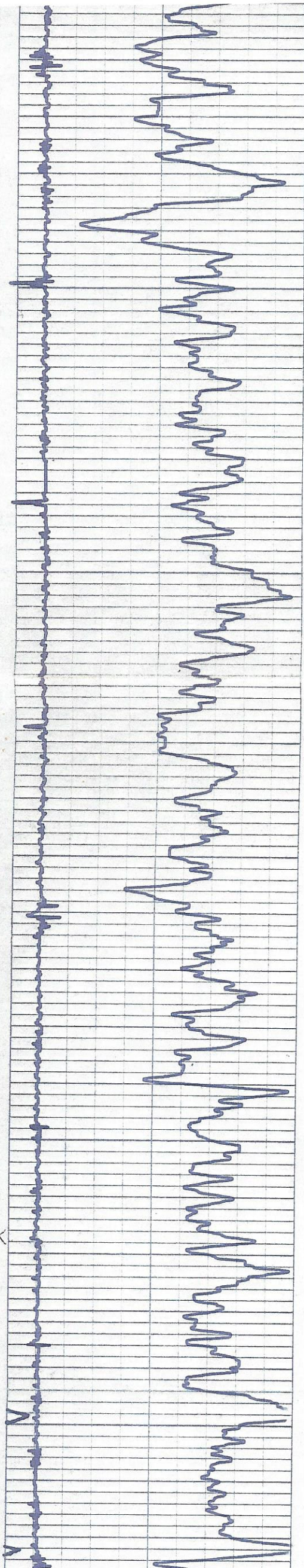
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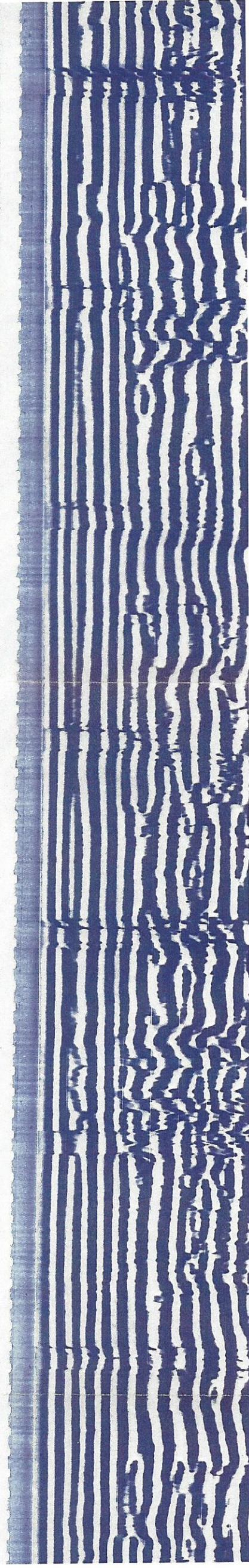
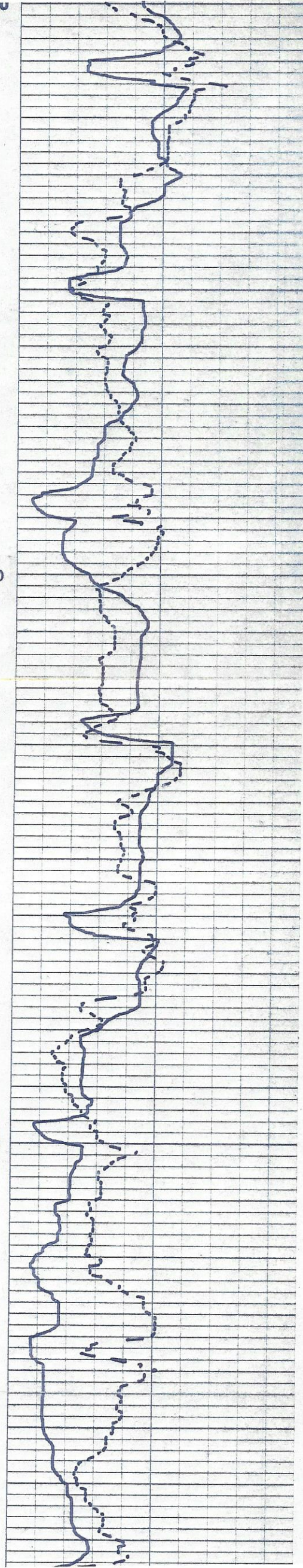




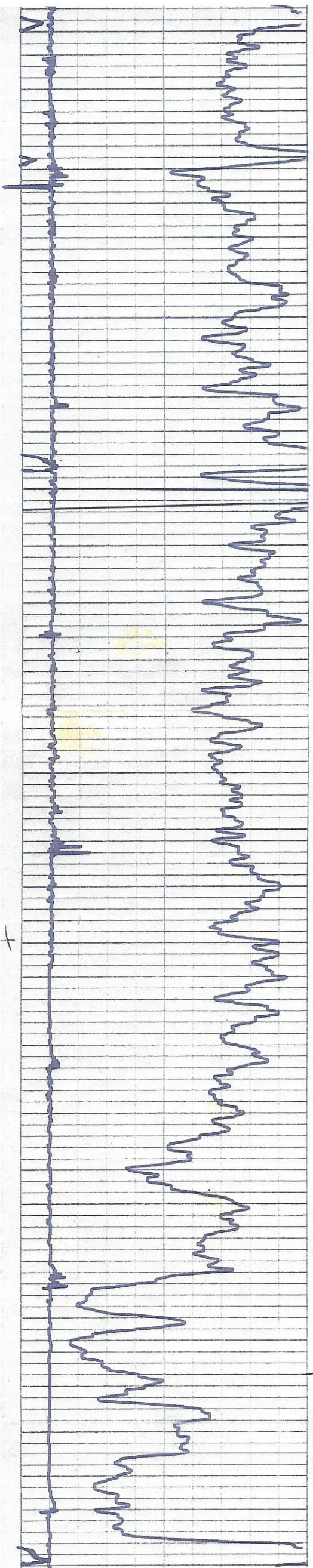
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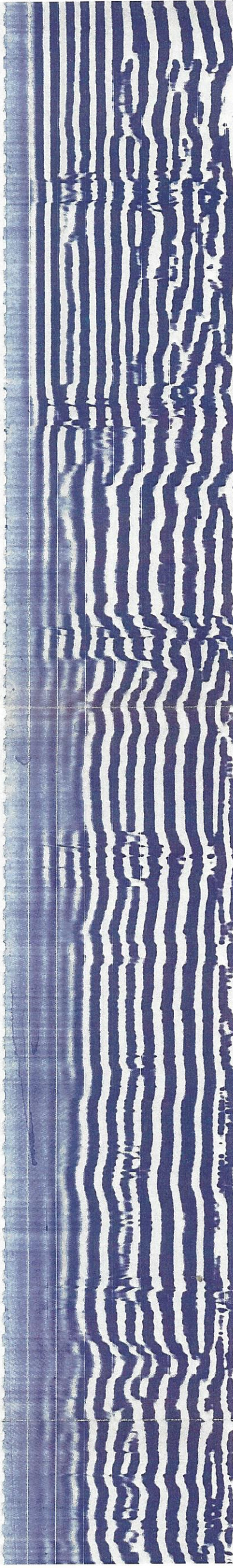
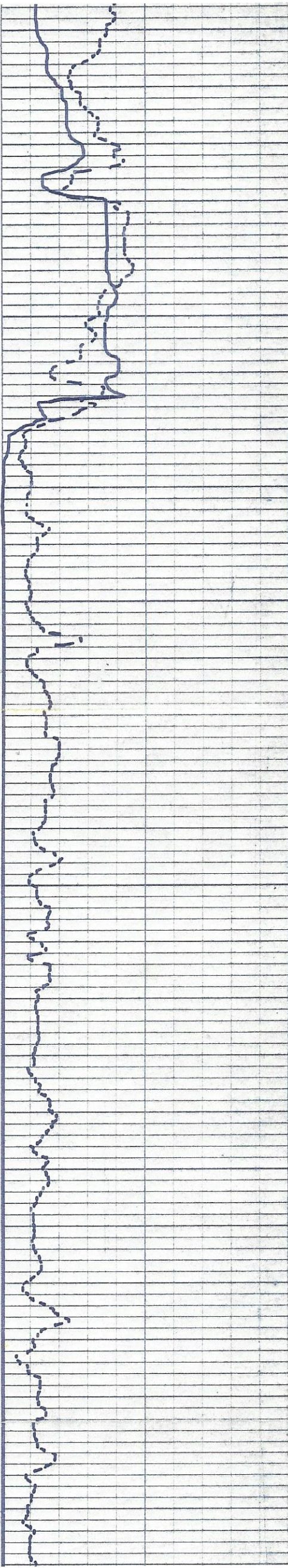




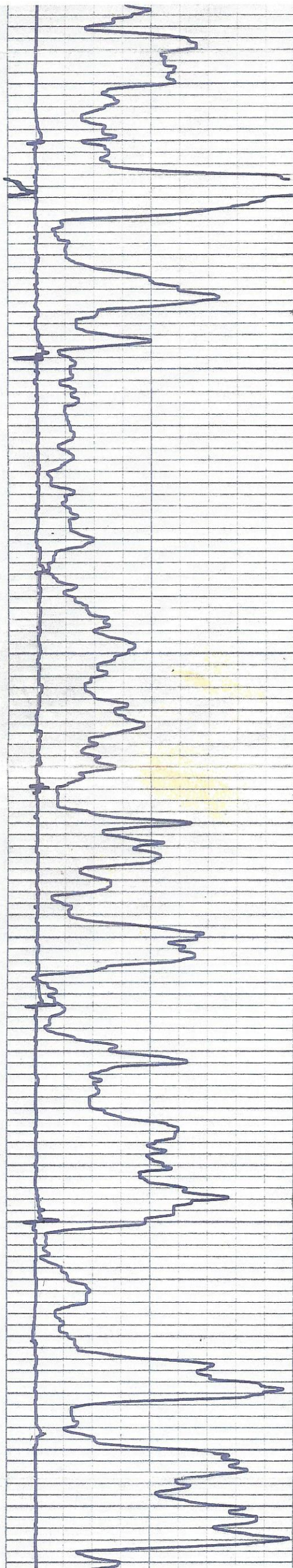
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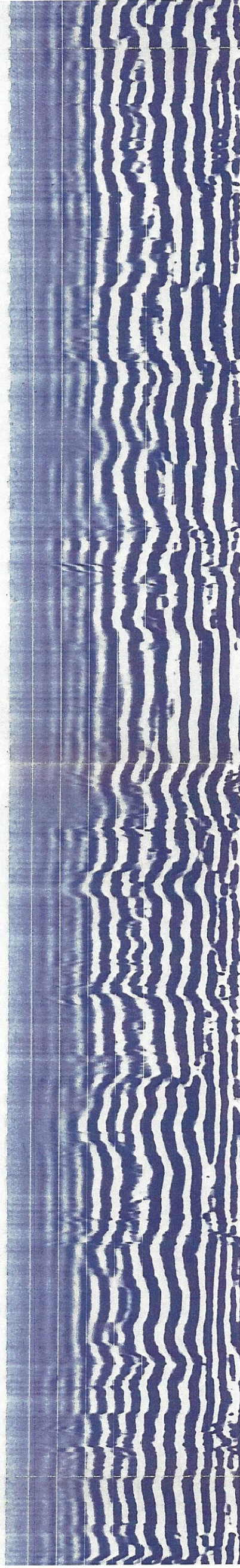
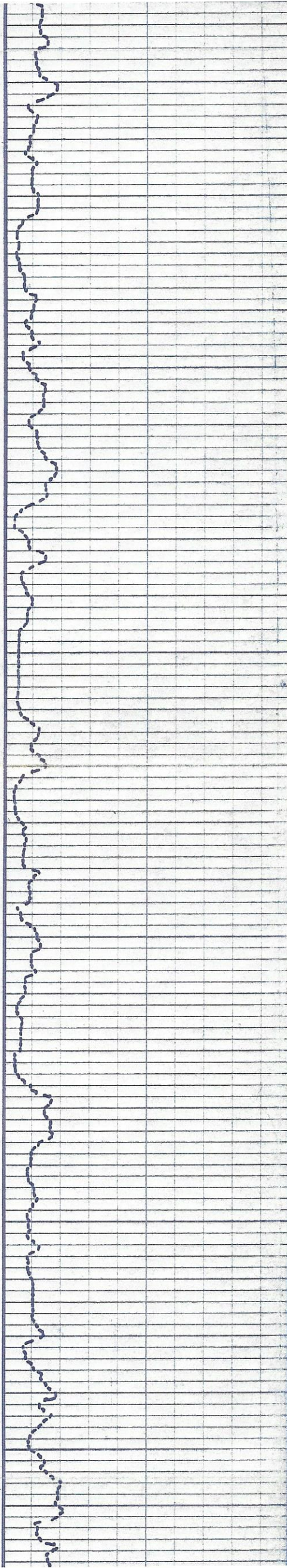
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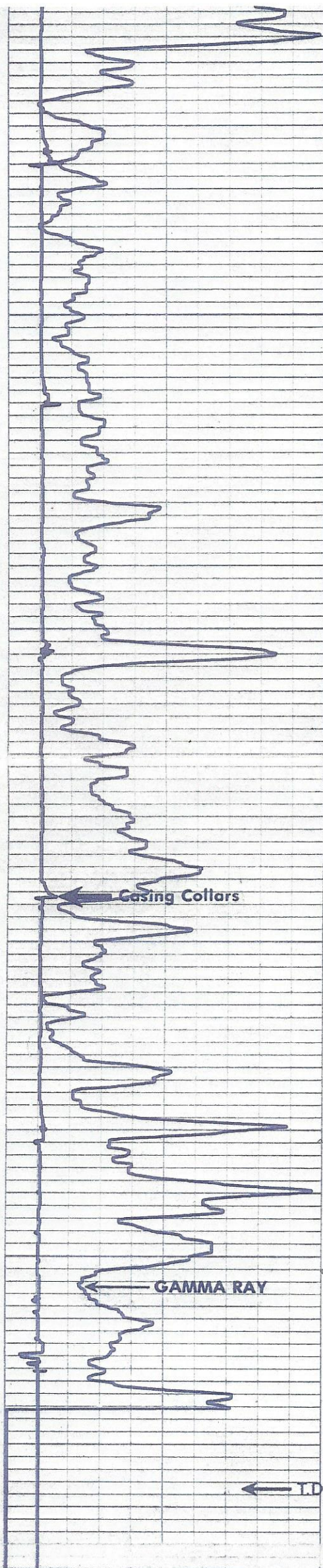
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12

6400







0	150
150	200

GAMMA

6500

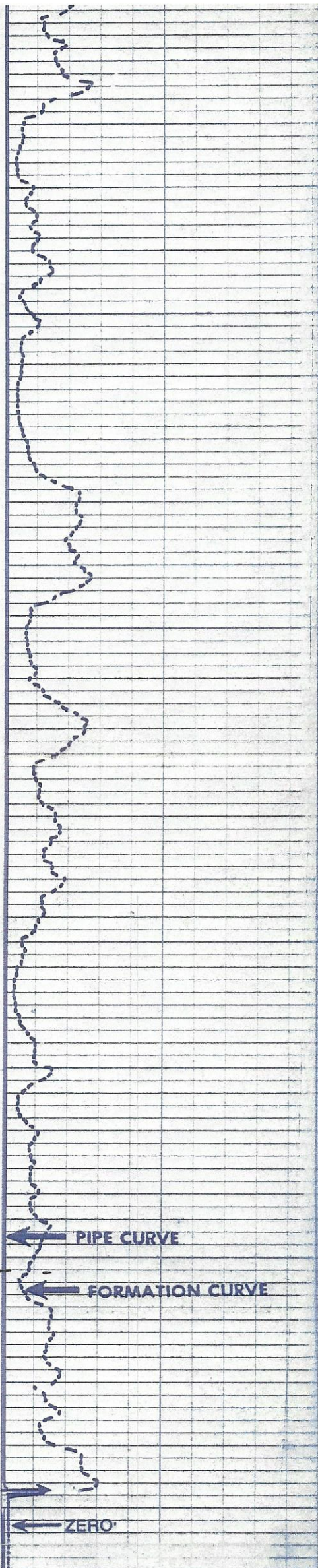
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11.0

Casing Collars

GAMMA RAY

LD. LOGGED

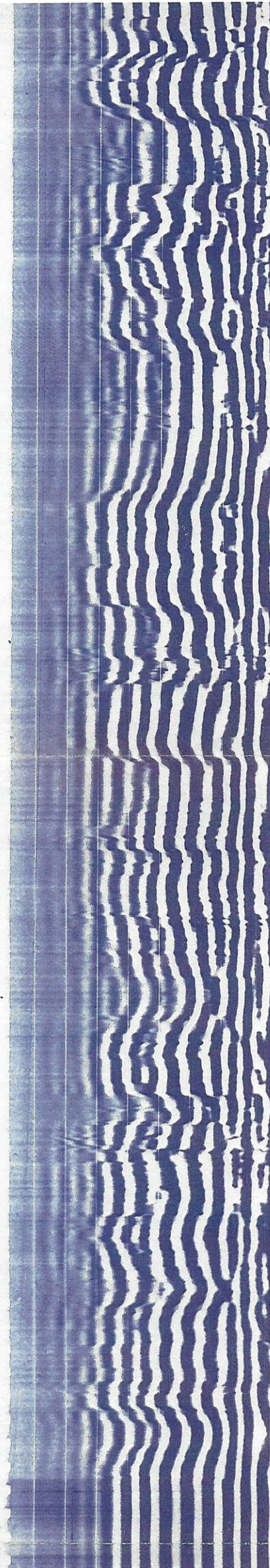


PIPE
FORMATION

PIPE CURVE

FORMATION CURVE

ZERO



MICRO-SEISMOGRAM® L

200

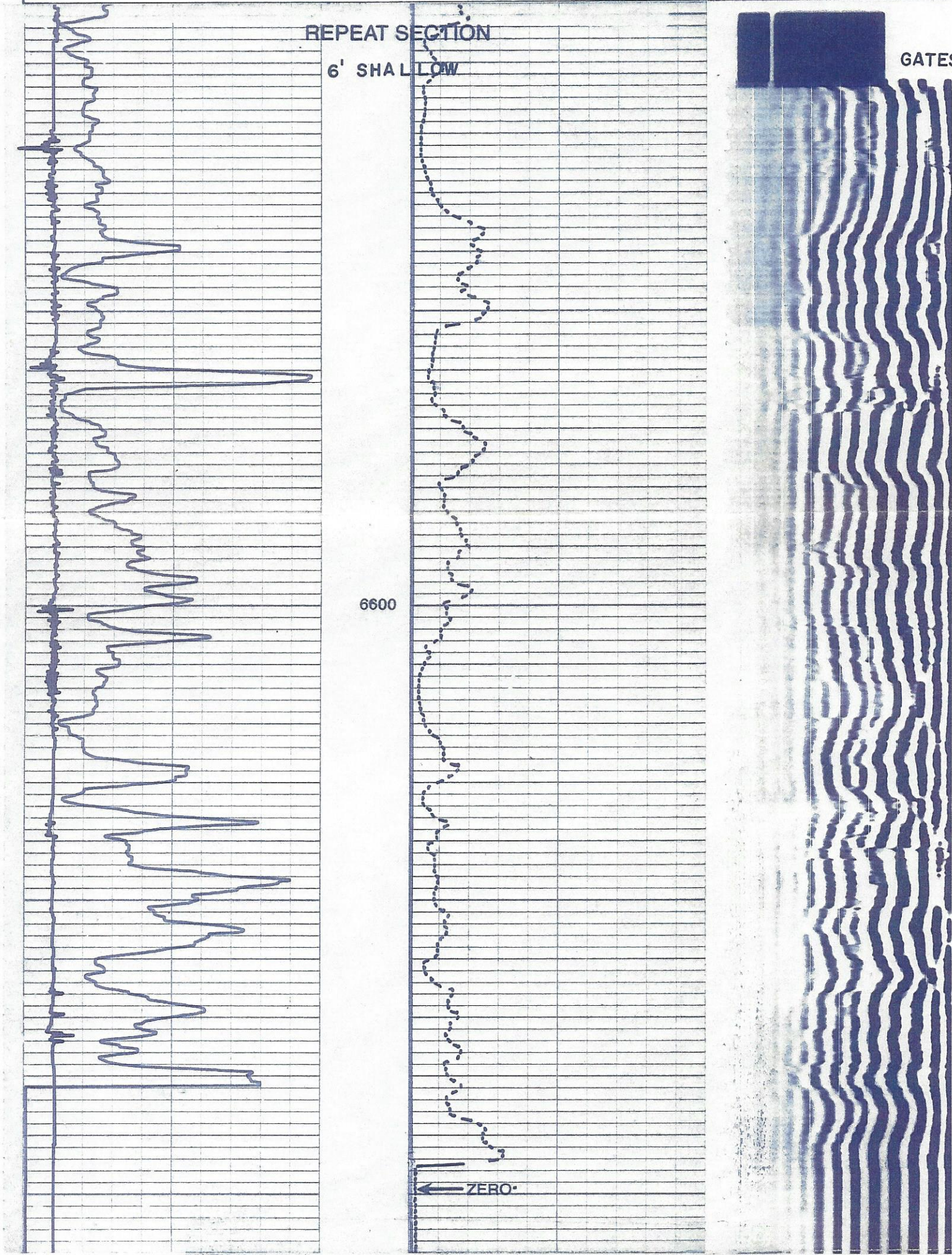
u sec

1



0	150
150	200
<b>GAMMA</b> API Gamma Ray Units	

PIPE	MICRO-SEISMOGRAM®	
FORMATION	200	u sec
AMPLITUDE		



BEFORE SURVEY

AFTER SURVEY

200

1200

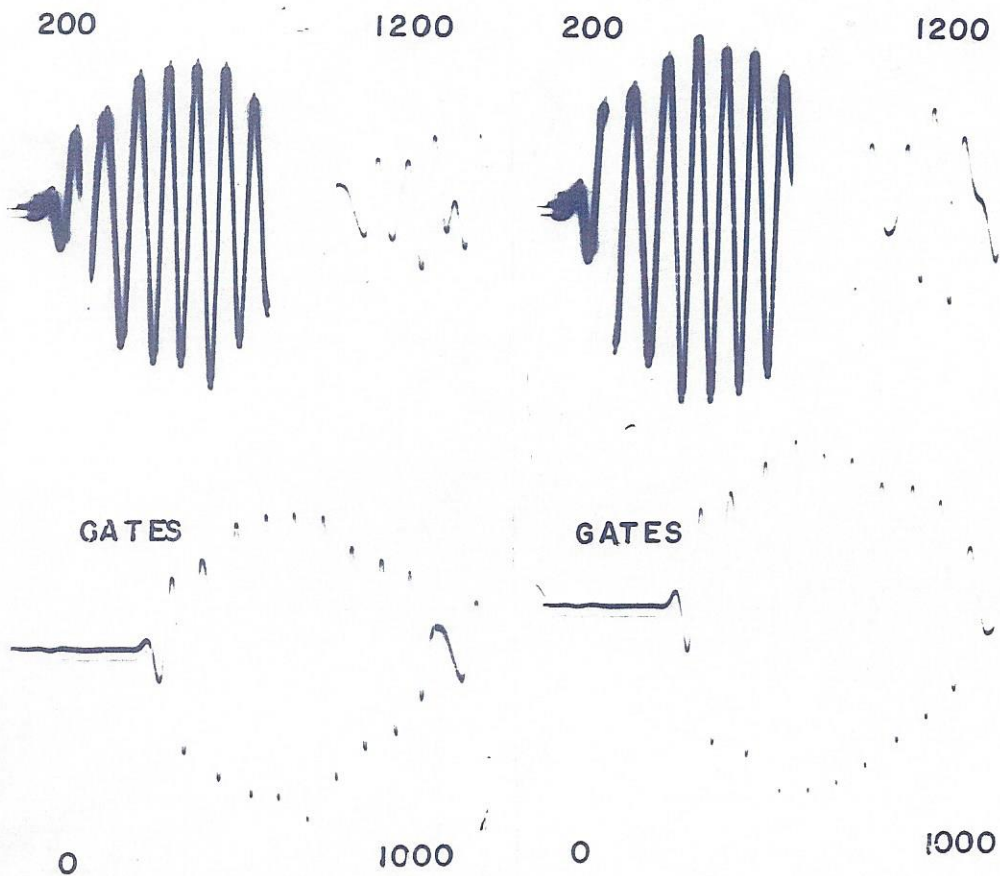
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BEFORE SURVEY

AFTER SURVEY



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