

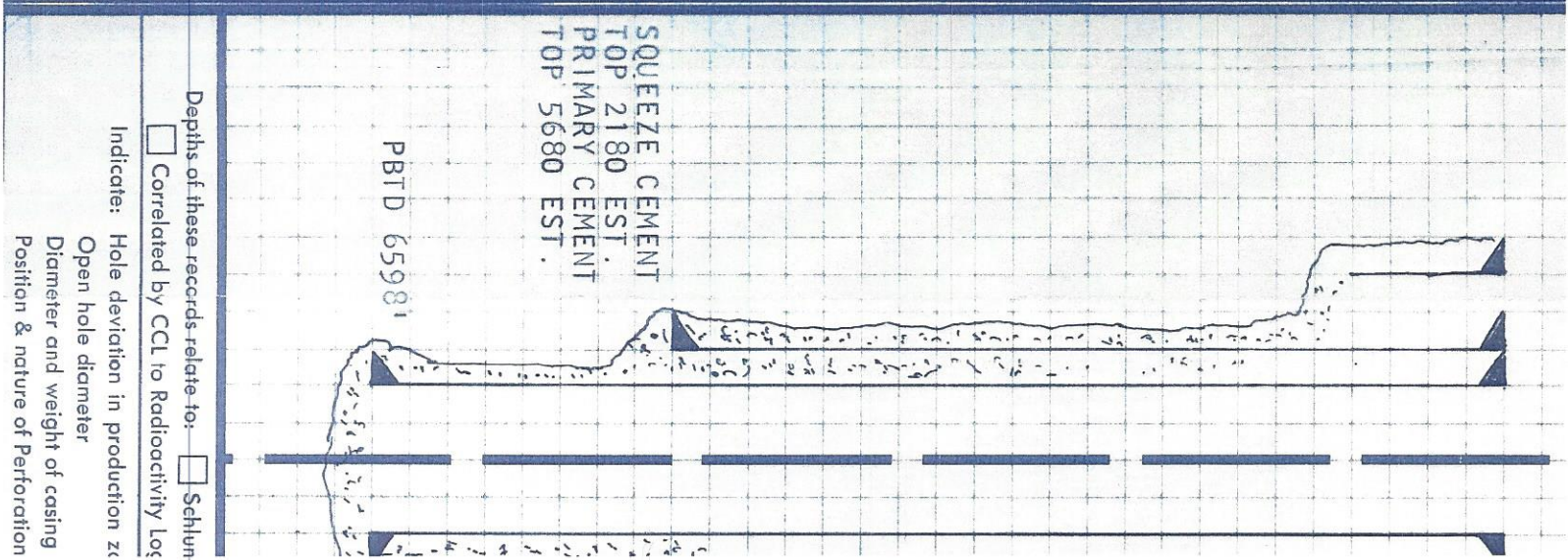
COUNTY <u>RIO BLANCO</u>		COMPANY <u>CHEVRON USA, INC.</u>	
Field or <u>RANGELY</u>		WELL <u>CHEVRON CORP. A.C. MCLAUGHLIN NO. 41AX</u>	
LOCATION <u>SEC. 24-2N-103W</u>		COUNTY <u>RIO BLANCO</u> STATE <u>COLORADO</u>	
WELL <u>CHEVRON CORP. A.C. MCLAUGHLIN NO. 41AX</u>		FIELD <u>RANGELY</u>	
LOCATION <u>N</u> API Serial No. <u>4641FNL - 18141FEL</u>		Other Services: <u>CBL/VDL</u>	
Sec. <u>24</u> Twp. <u>2N</u> Rge. <u>103W</u>			
Permanent Datum: <u>GL</u> , Elev. <u>5382</u> Elev.: <u>K.B. 5401.65</u> Log Measured From <u>KB, 19.65 Ft. Above Perm. Datum</u> D.F. <u>5400.65</u> Drilling Measured From <u>KB</u> G.L. <u>5382</u>			
Date <u>3-11-85</u>	Casing Fluid <u>2% KCL</u>		
Run No. <u>ONE</u>	Fluid Level <u>110</u>		
Depth - Driller <u>6600</u>	Max. Rec. Temp. <u>-</u>		
Depth - Logger <u>6598</u>	Est. Cement Top <u>5680 PRIMARY</u>		
Lim. Log Interval <u>6592</u>	Unit <u>8190 EVSTN PS</u>		
Op. Log Interval <u>32</u>	Recorded By <u>THELEMAN</u>		
Open Hole Size <u>8.75"</u>	Witnessed By <u>HOWARD</u>		
CASING REC.	Size	Wt/Ft	Grade
Surface String			Type Joint
Prot. String			Top
Prod. String	<u>7</u>	<u>23 & 26</u>	Bottom
Inner			<u>SURF 6598</u>
PRIMARY CEMENTING DATA			
STRING	LEAD (1)	TAIL (1)	DV (2)
Vol. of cement	<u>250 SX</u>	<u>210 SX</u>	<u>1290 SX</u>
Type of cement	<u>50/50 POZ</u>	<u>EXP. CMNT.</u>	<u>50/50 POZ</u>
Additive	<u>6% GEL</u>	<u>6% GEL</u>	<u>6% GEL</u>
	<u>10#/SK</u>	<u>10#/SK</u>	<u>10#/SK</u>
	<u>GILSONITE</u>	<u>GILSONITE</u>	<u>GILSONITE</u>
RETARDER	<u>.5% CFR-2</u>	<u>.75% CFR-2</u>	
Mt. of slurry			
Water loss	<u>12.8</u>	<u>14.0</u>	
Type fluid in csg.	<u>-</u>	<u>-</u>	
Fluid wt.			

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

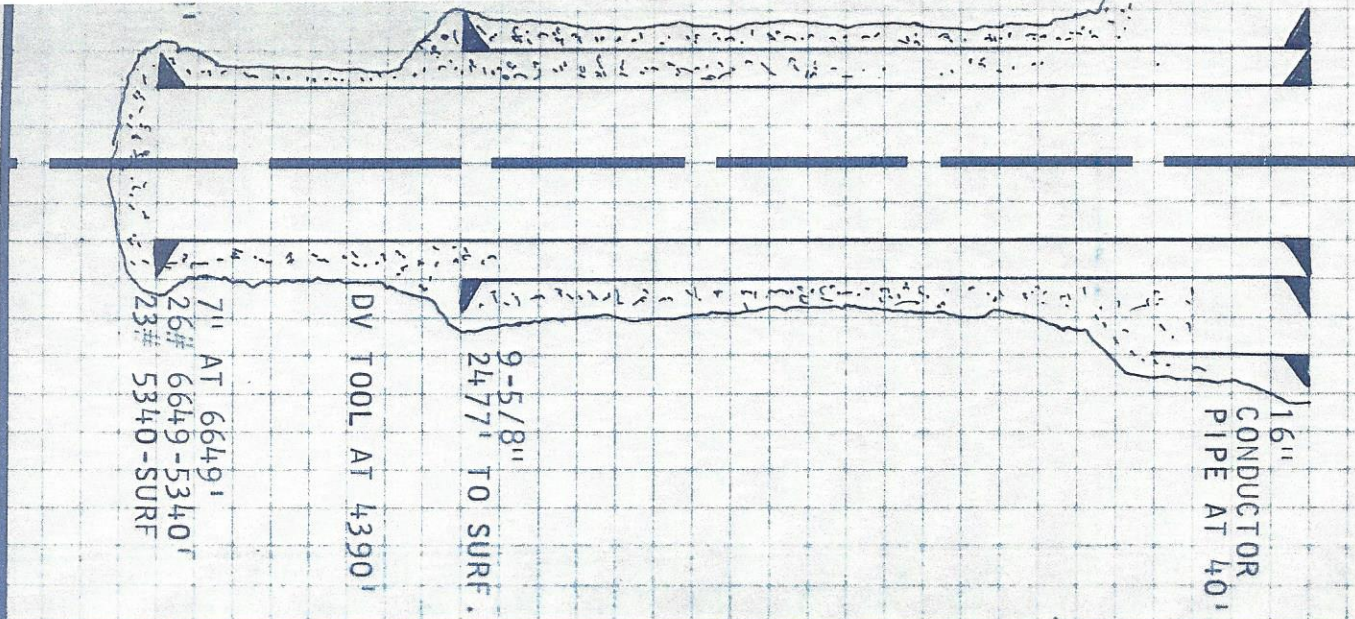
PRIMARY CEMENTING DATA		REMARKS:	
<input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated	Hour - Date <u>1985</u>	<u>PIPE CHANGE AT 5340.</u>	
Started pumping cement	<u>0341 2/19</u>	<u>DV TOOL AT 4390.</u>	
Release pressure	<u>0545 2/19</u>	Service Order Number	
Start Cement Bond Log	<u>1030 3/11</u>	Casing Collar Memory Distance	ft.
Finish Cement Bond Log	<u>1230 3/11</u>	Radiation Log Memory Distance	ft.
Preceding fluid <u>100 SK POZ</u> Volume <u>37</u> bbls.		Pipe reciprocated during Pumping: Yes <input type="checkbox"/> No <input type="checkbox"/>	
Cement pumped <u>4-5</u> bbls./minute		Pipe reciprocated after plug down: Yes <input type="checkbox"/> min, No <input type="checkbox"/>	

CORRELATION LOG	INTERPRETATION:
<u>N/A</u>	<u>6598-6320 EXCELLENT CEMENT</u>
TYPE:	<u>6320-5680 GOOD TO FAIR</u>
CURVE:	<u>4390-3950 GOOD TO EXCELLENT</u>
SERVICE COMPANY:	<u>3950-3910 POSSIBLE GAS CUTTING</u>
DATE:	<u>3910-3630 GOOD TO EXCELLENT</u>
OTHER:	<u>3630-3200 POSSIBLE GAS CUT</u>
	<u>3200-2450 GOOD TO EXCELLENT</u>
	<u>2450-2180 GOOD STRENGTH</u>

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 interpretations, 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 sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our General Terms and Conditions as set out in our current Price Schedule.

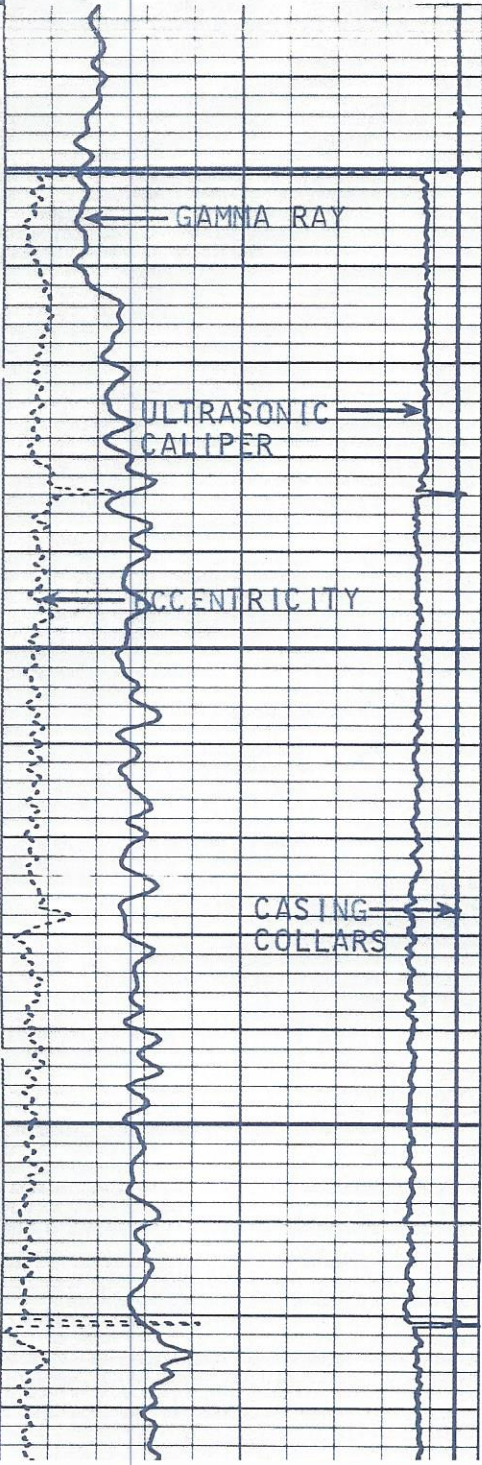


ds relate to: ☐ Schlumberger line measurements
 CCL to Radioactivity Log Measurements
 deviation in production zone
 hole diameter
 er and weight of casing and tubing
 n & nature of Perforations (SC, Capsules, etc.)

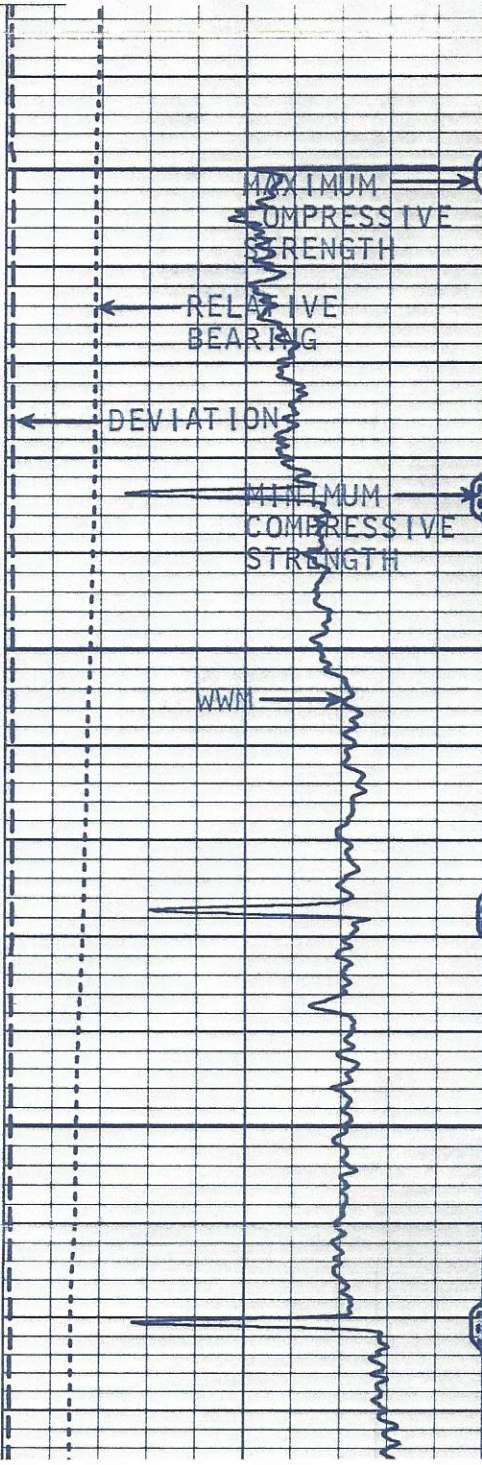


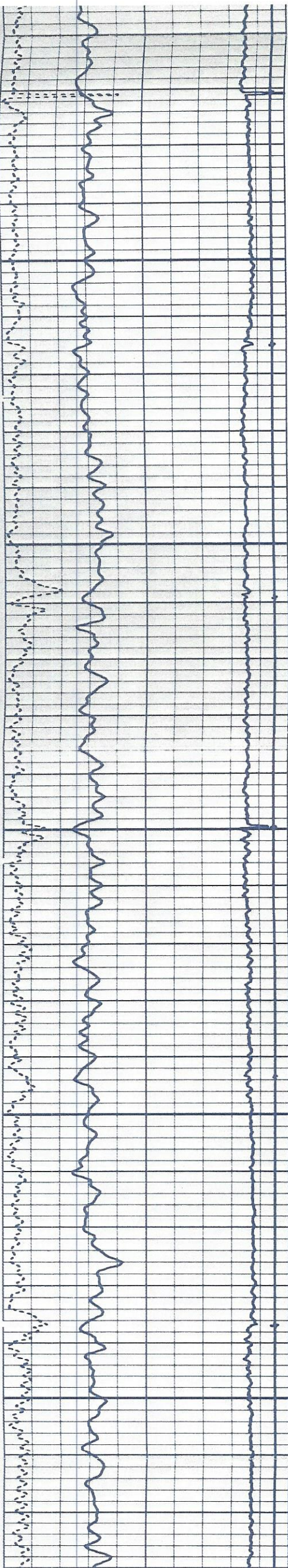
GR (GAPI)		DEVI(DEG)	
0.0	150.00	0.0	40.000
CCL		WWM	
-19.00	1.0000	0.0	2.0000
ECCE(IN)		CSMX	
0.0	.50000	10000.	0.0
CALU(IN)		CSMN	
5.5000	6.5000	10000.	0.0
		RB (DEG)	
		0.0	720.00

FILE 3 11-MAR-85 12:28
 LR



100

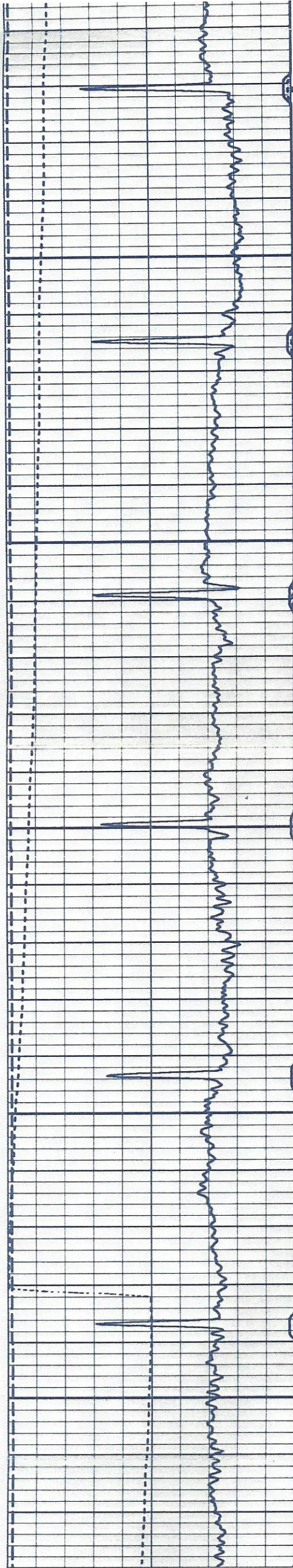


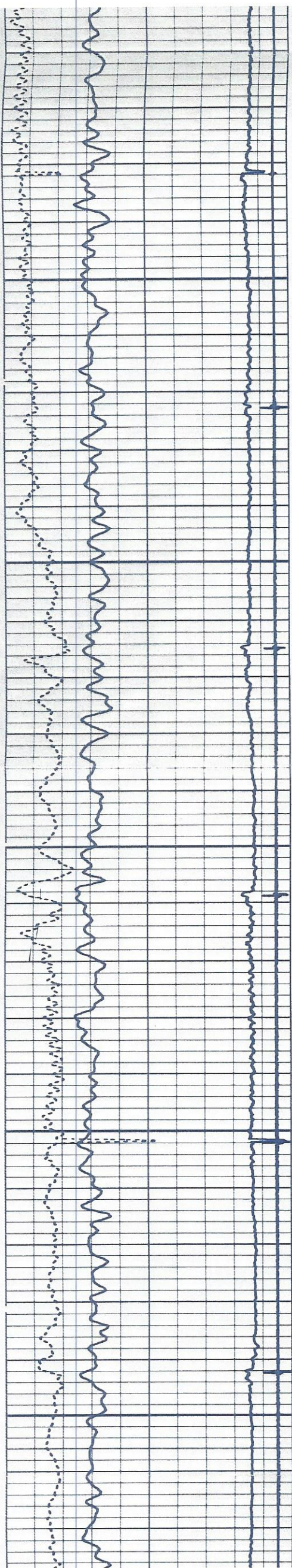


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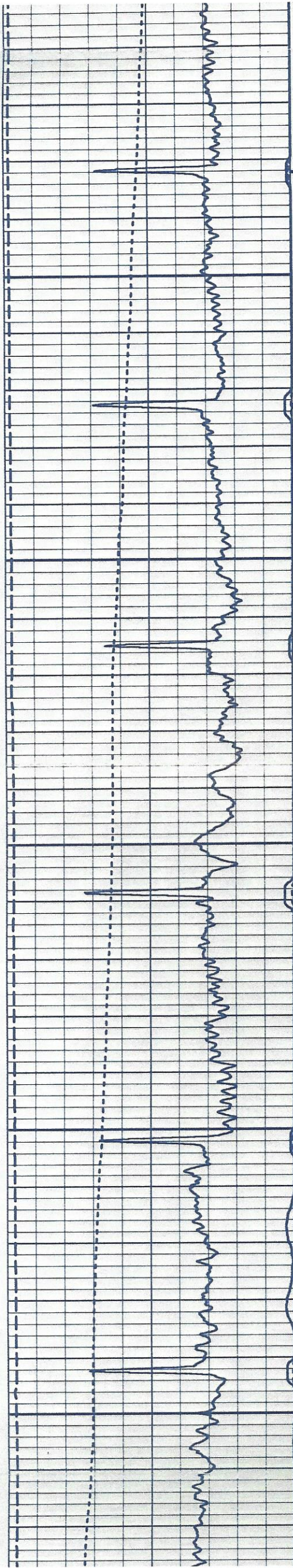
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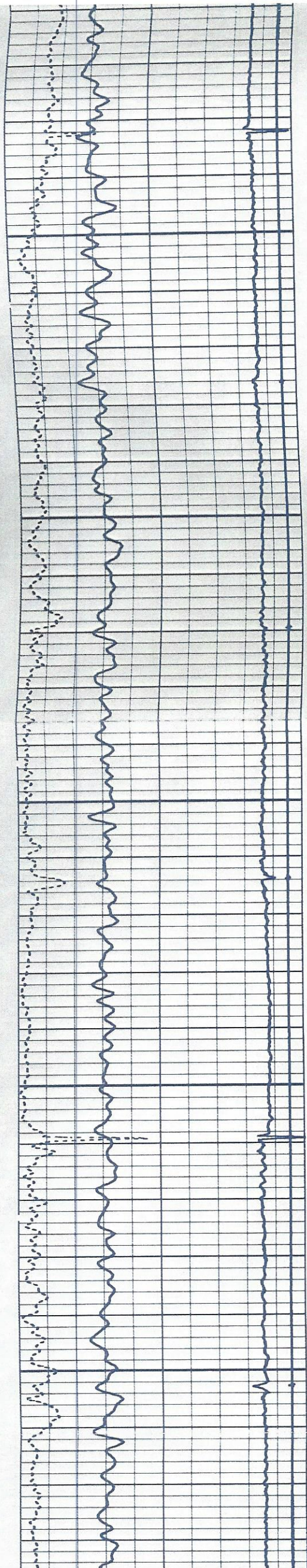




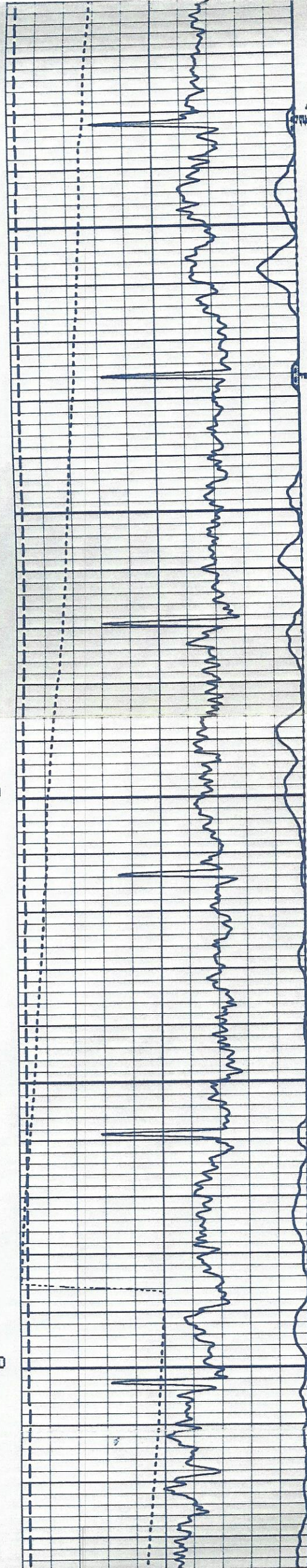
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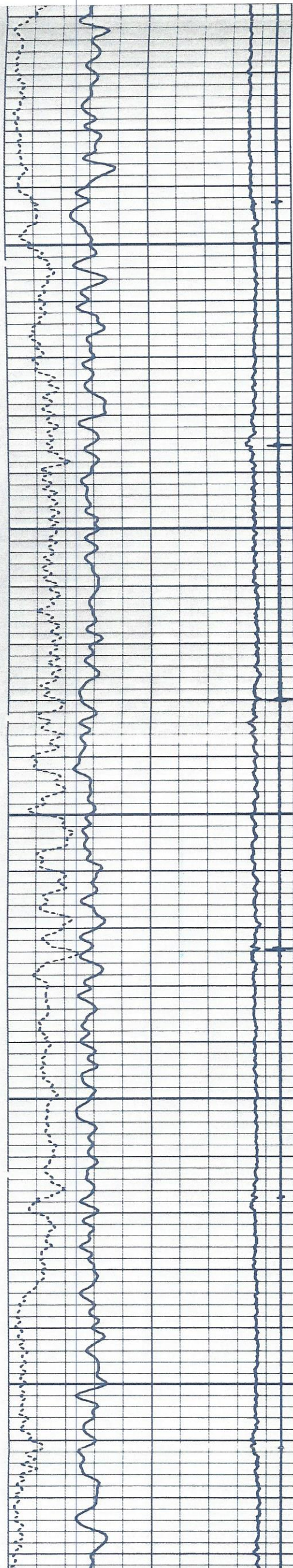


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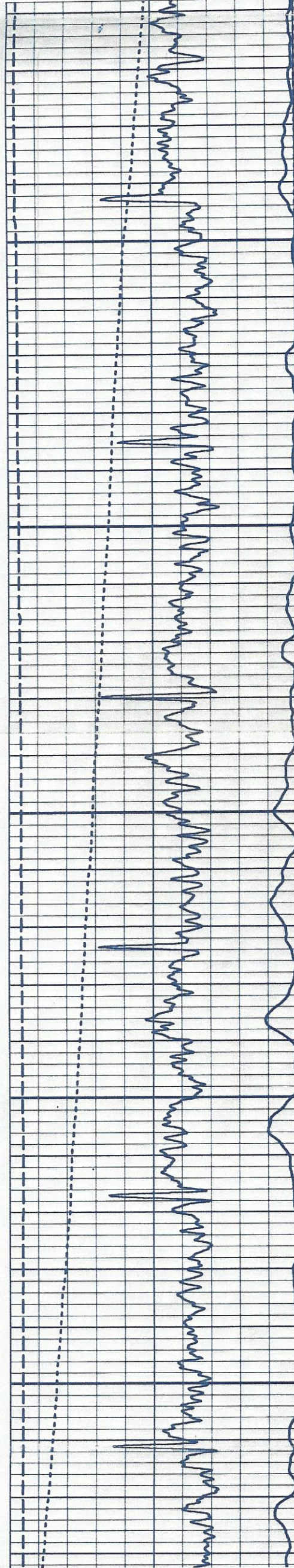


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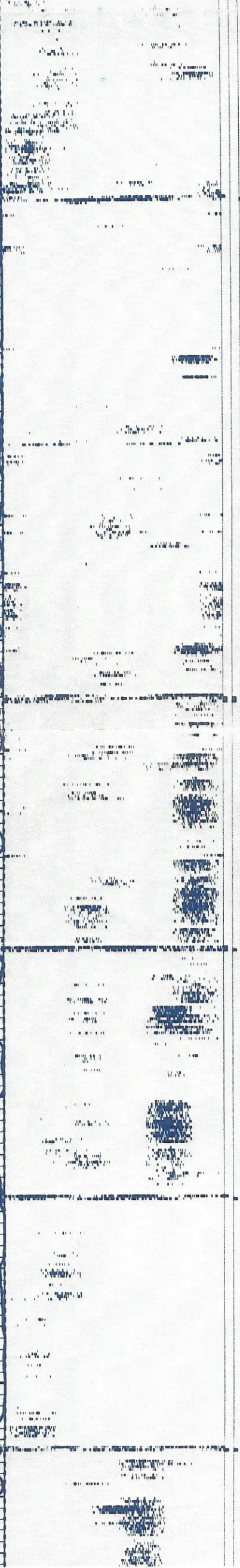
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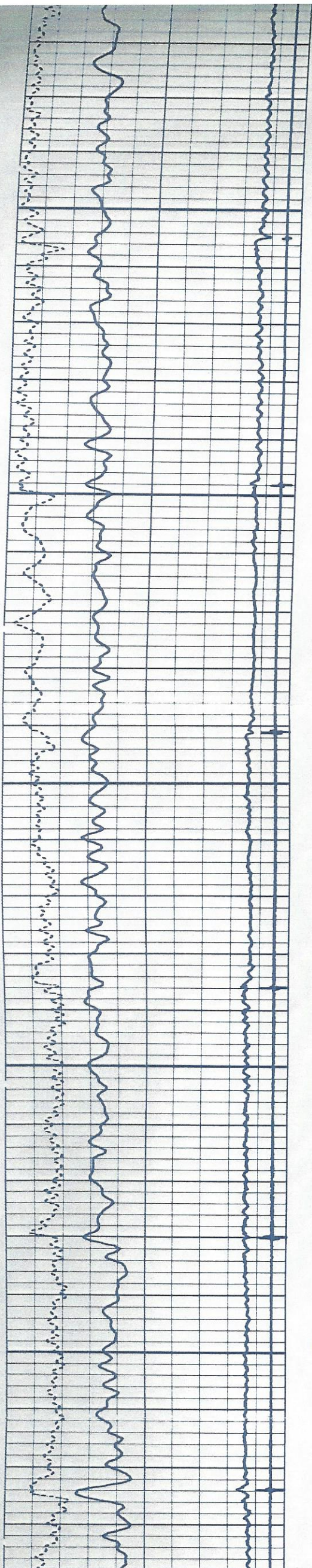


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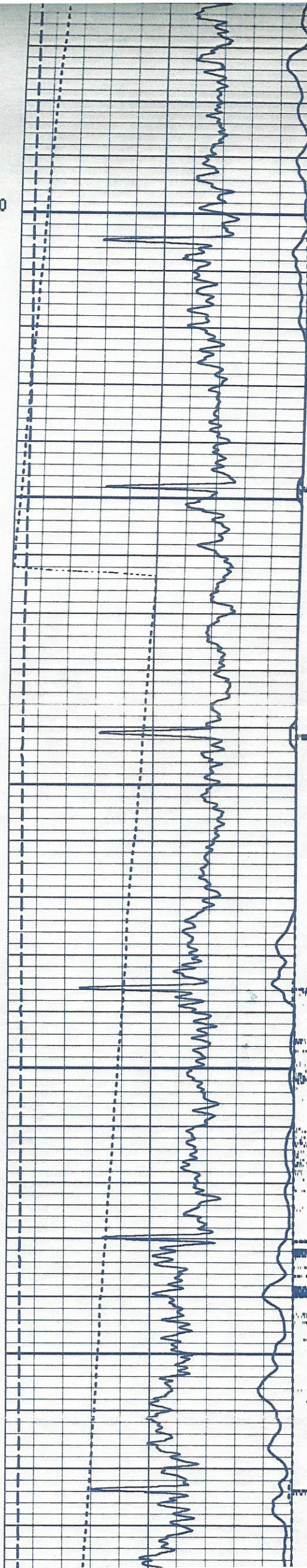




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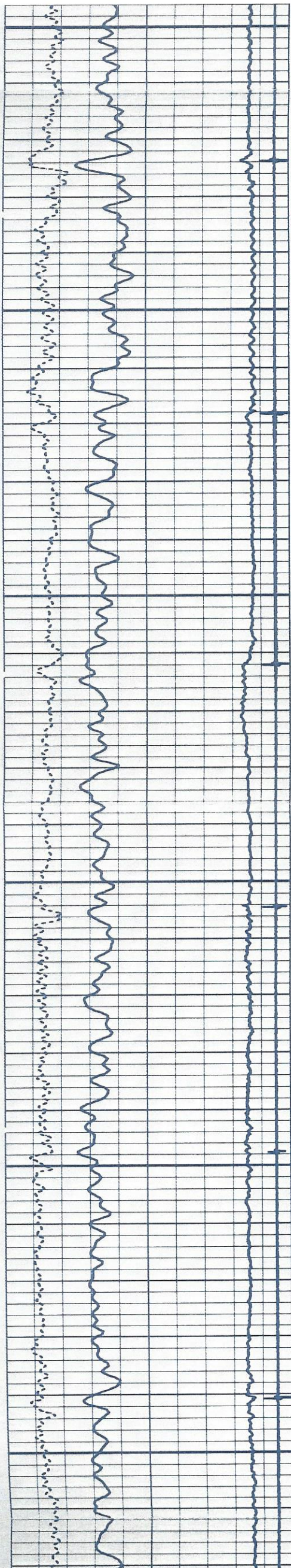
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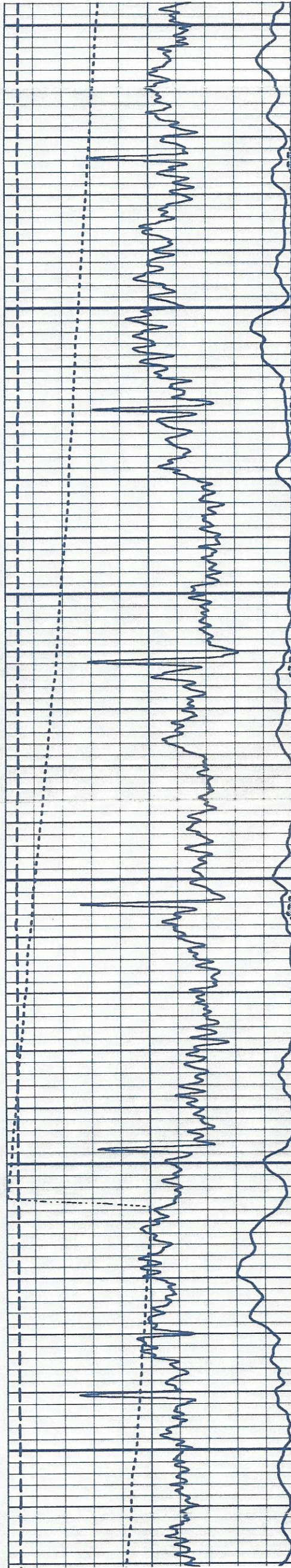
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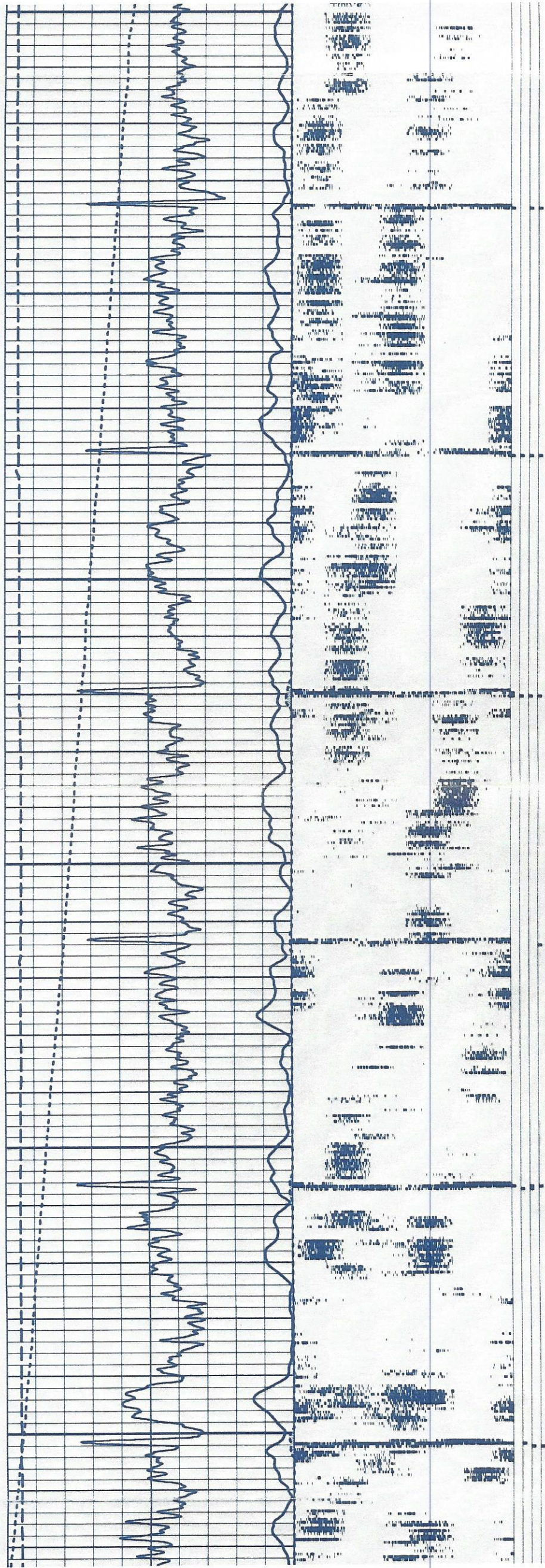
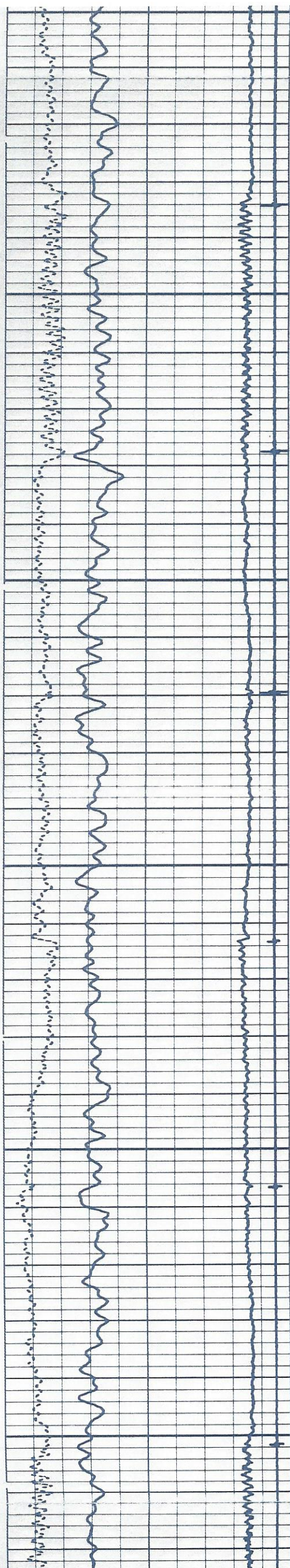
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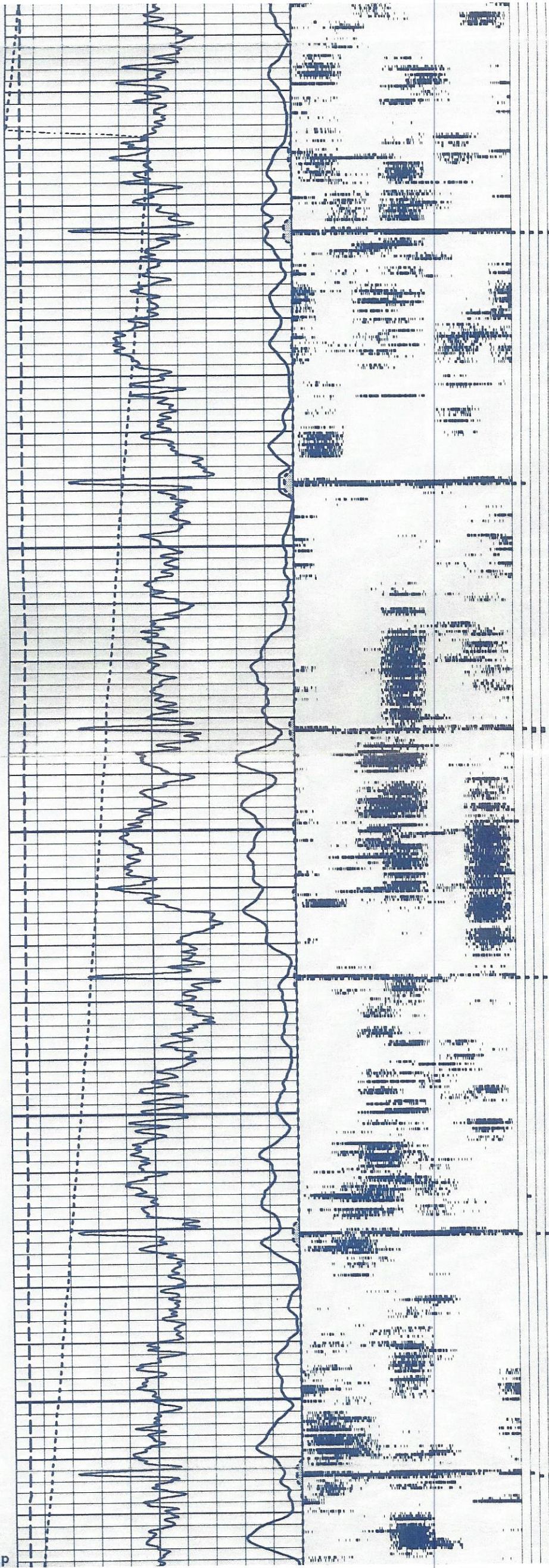
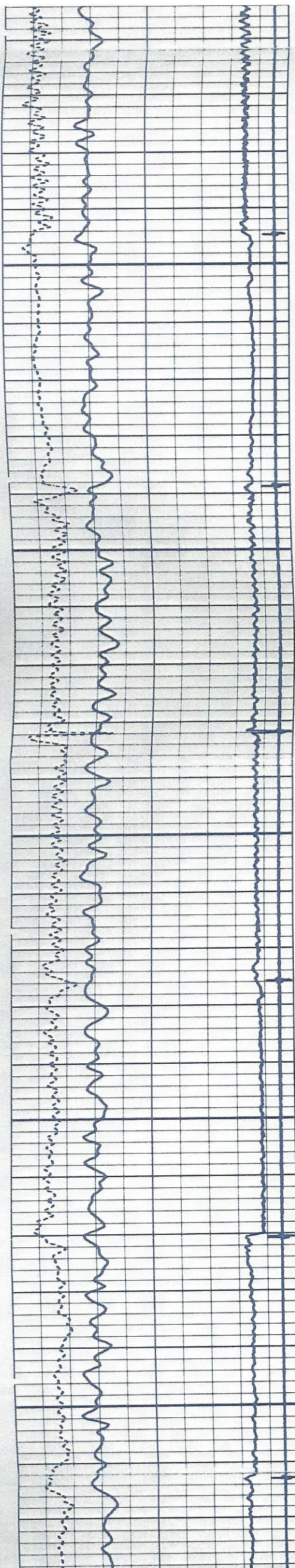
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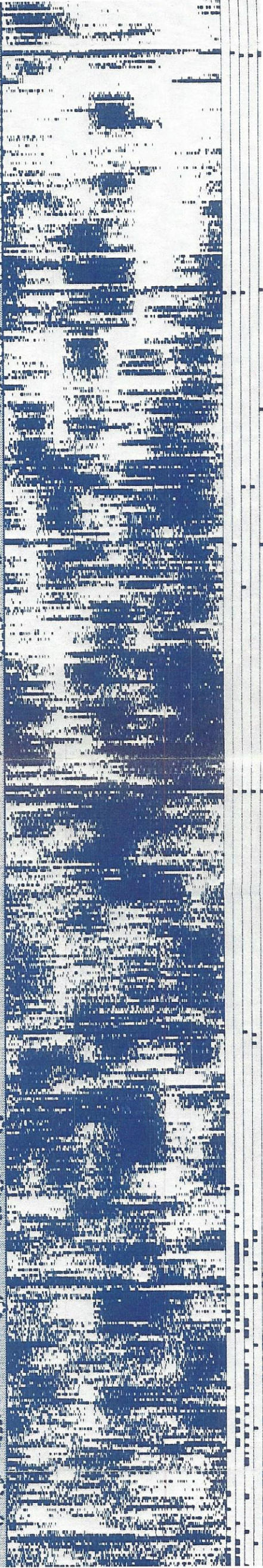
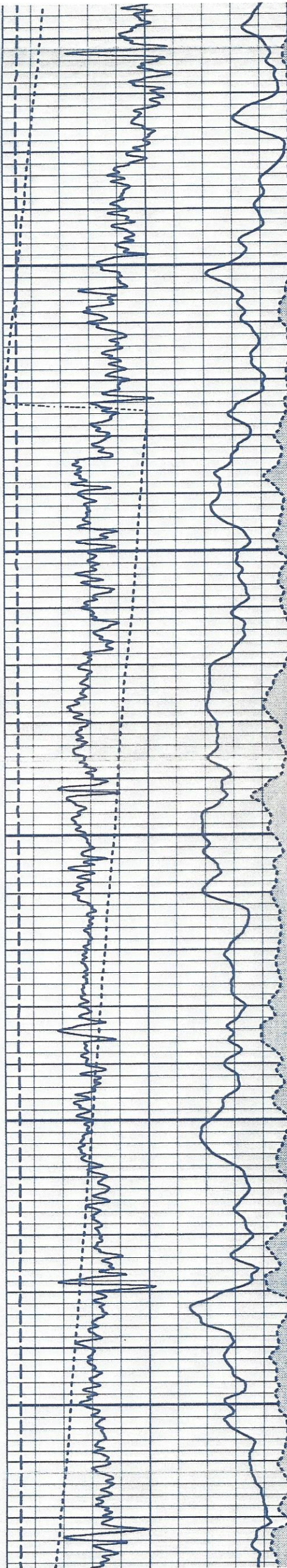
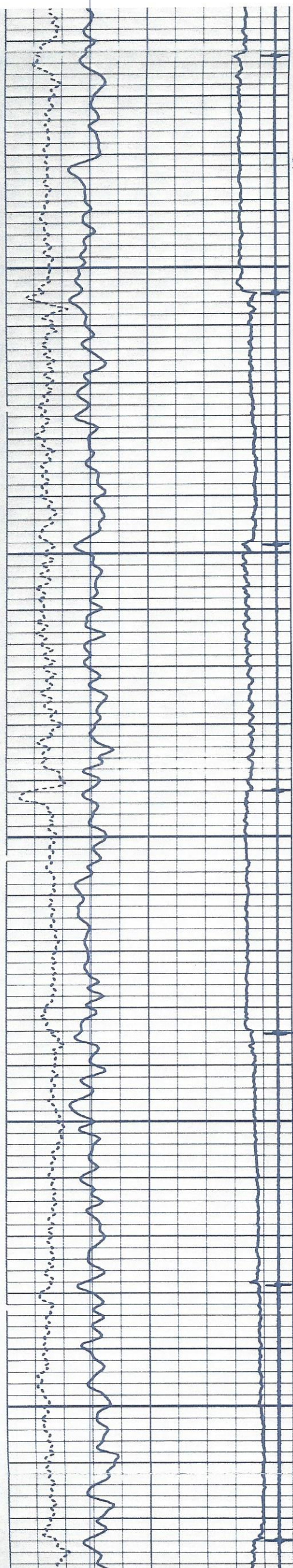


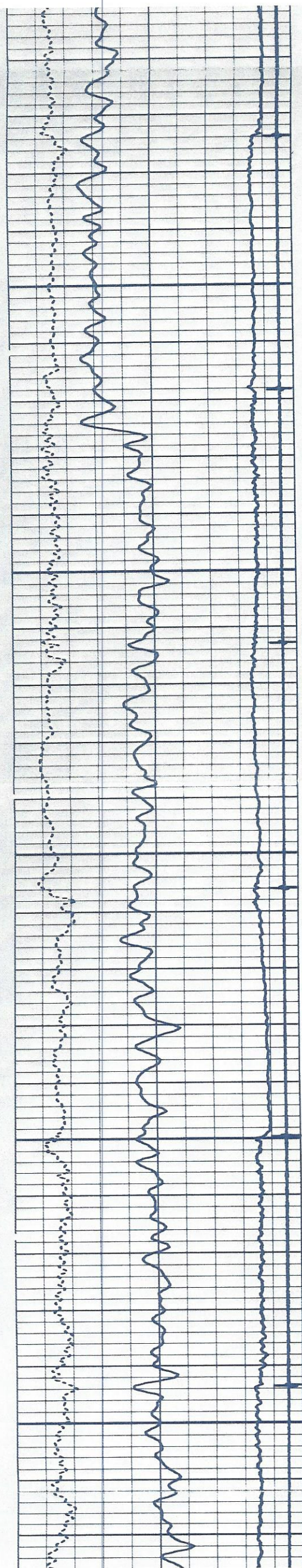
Est. Top
SQUEEZE

2200

2300

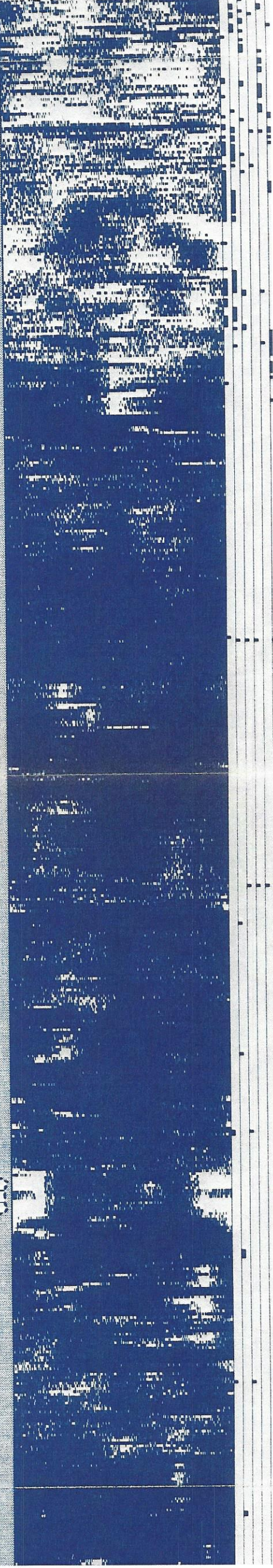
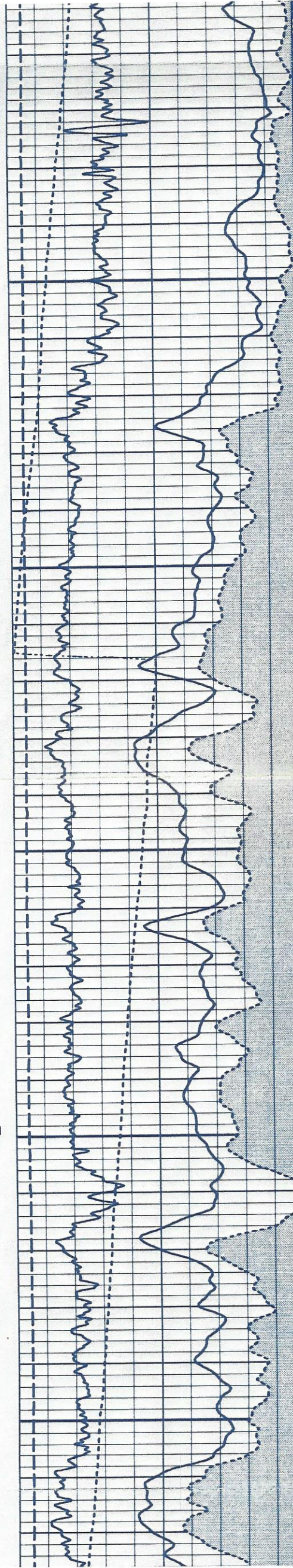
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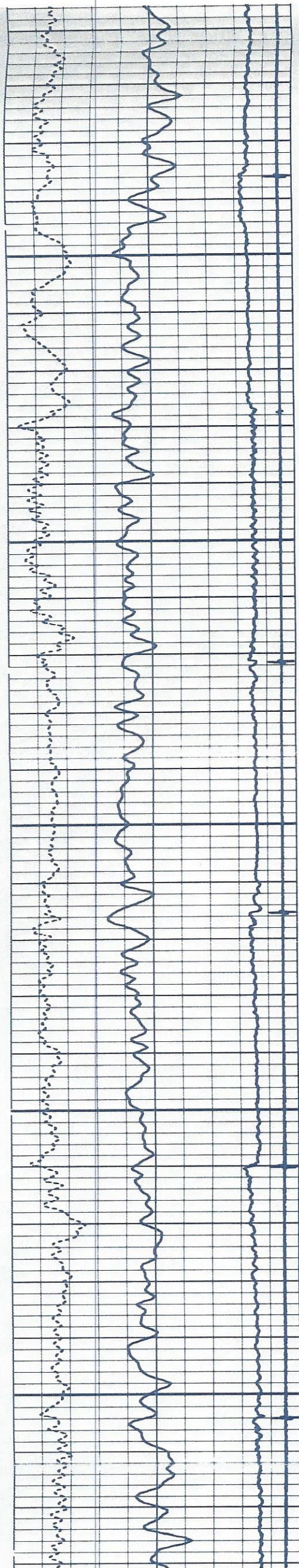




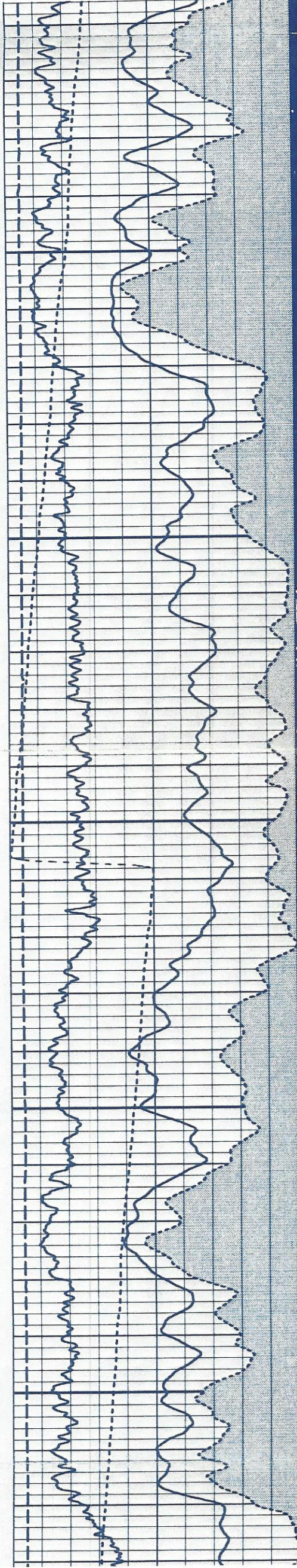
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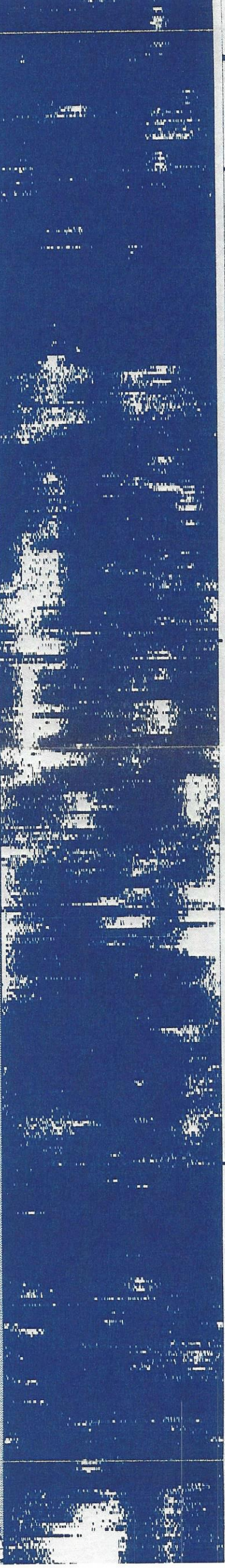


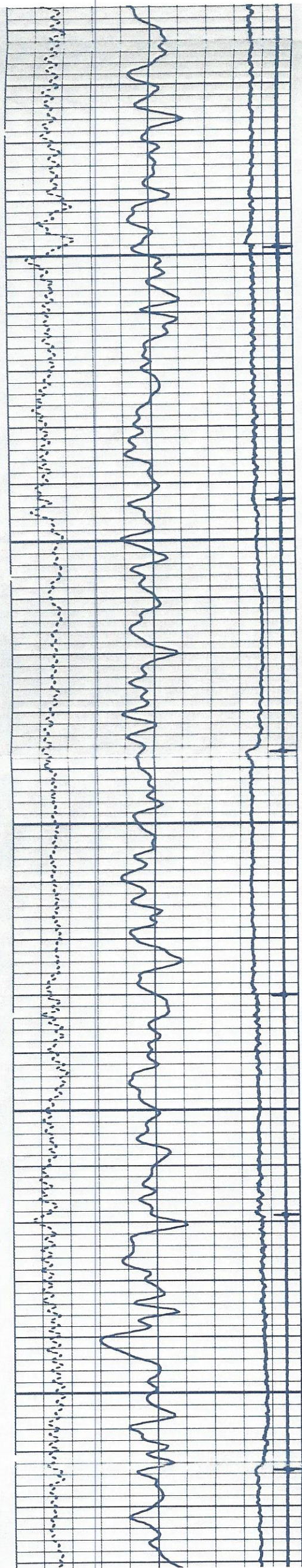
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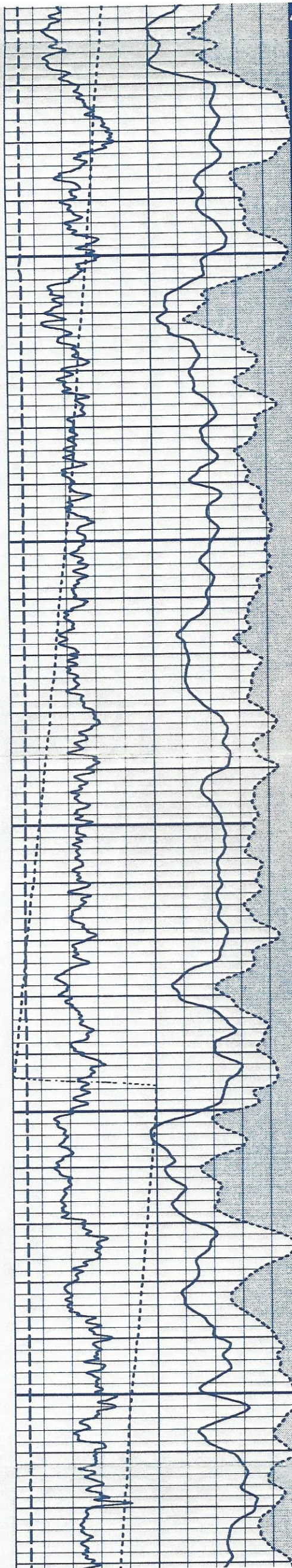
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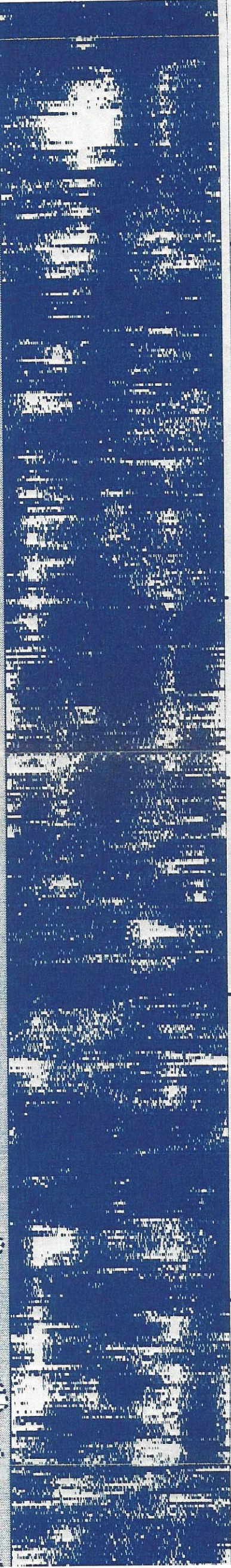


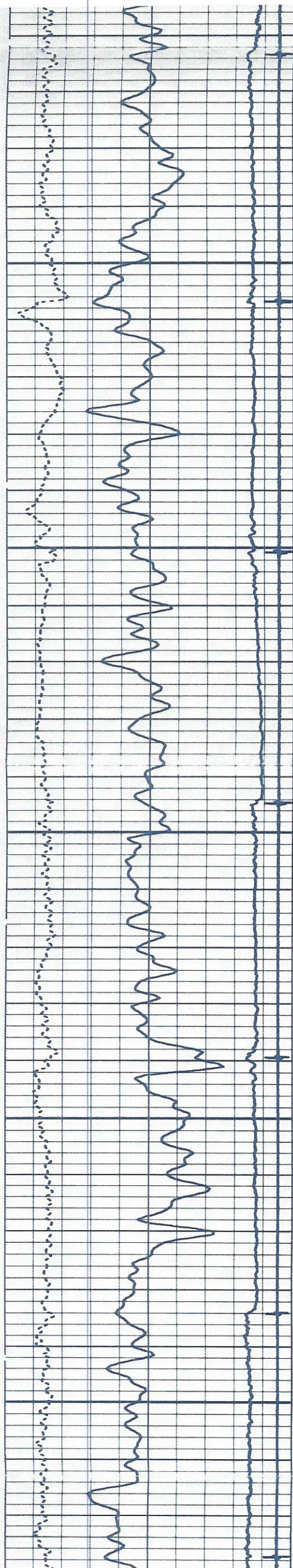


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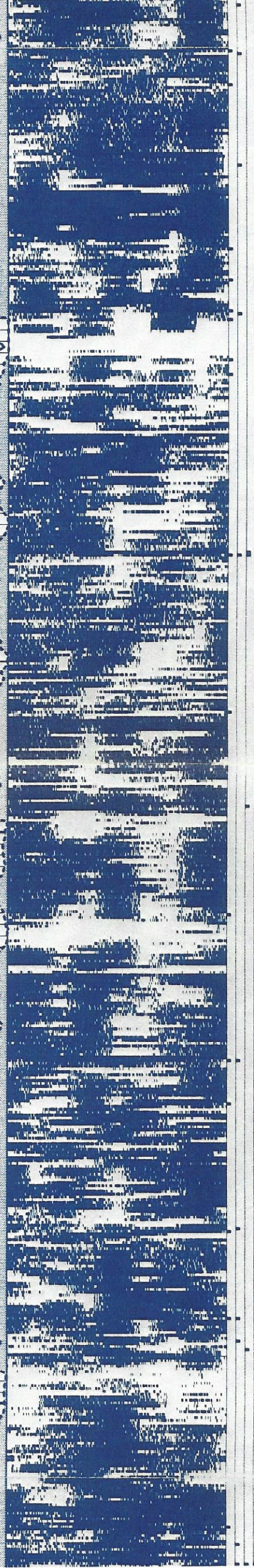
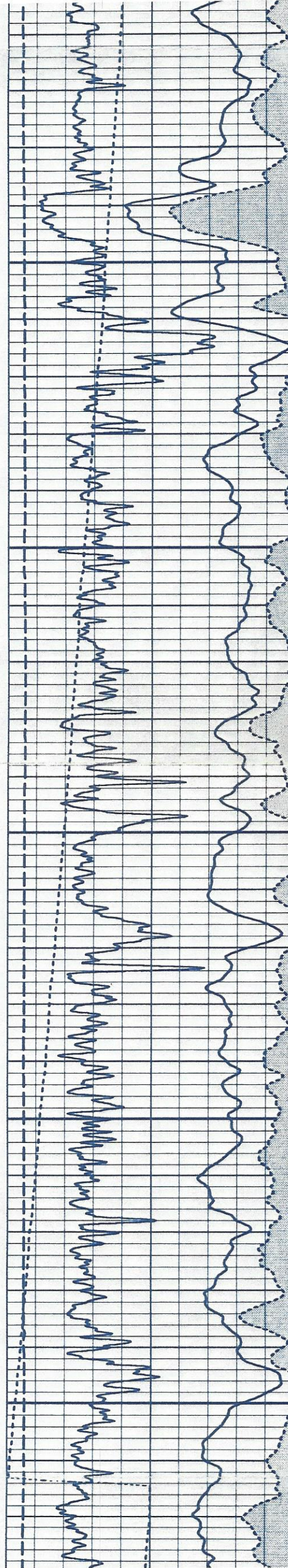




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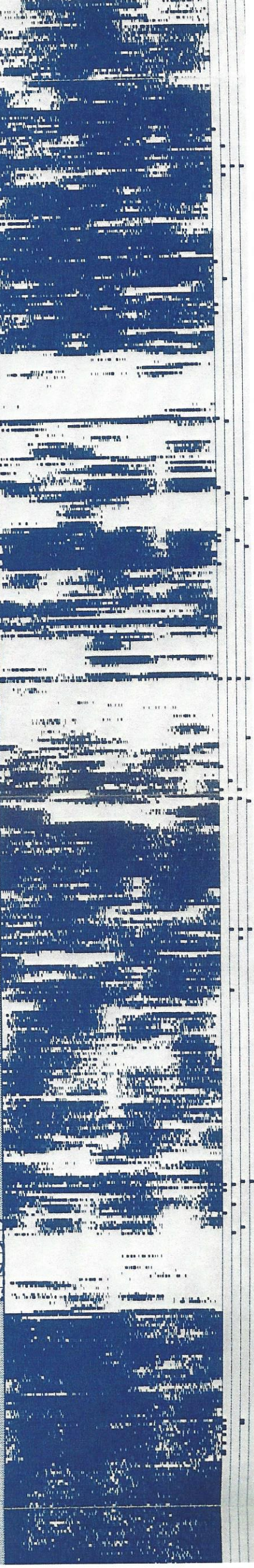
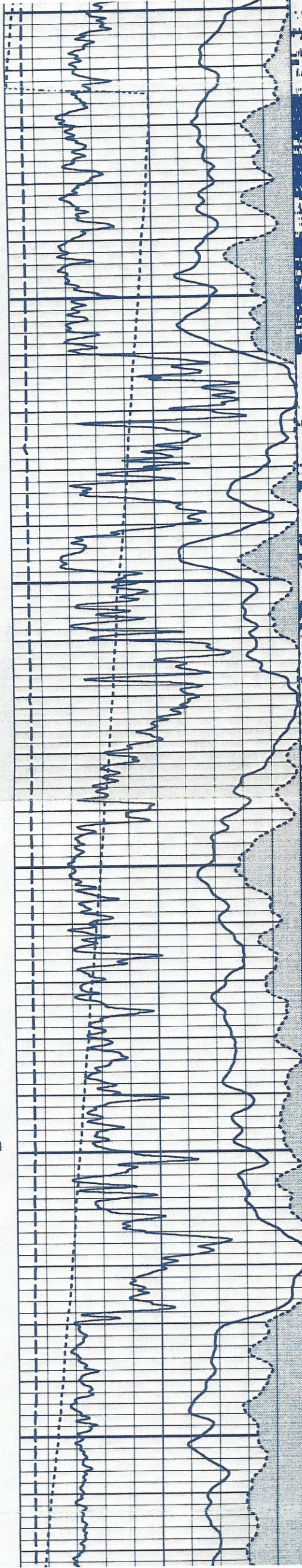
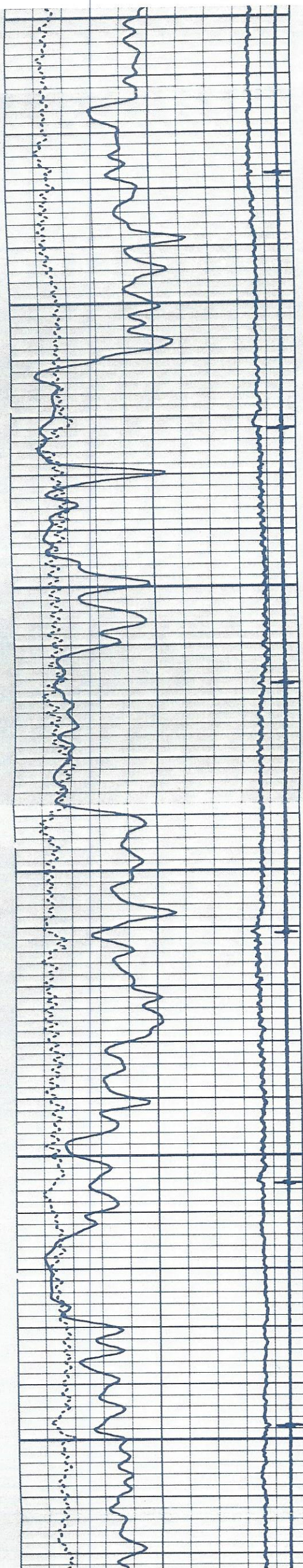
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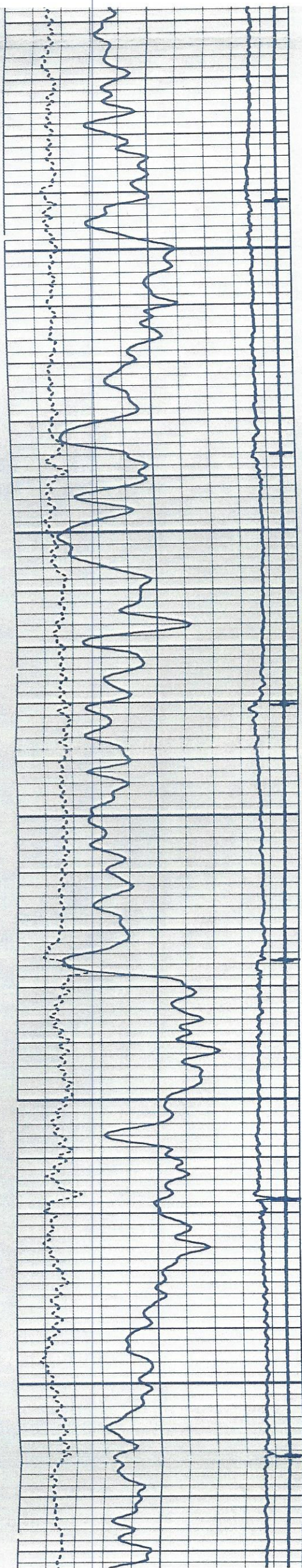


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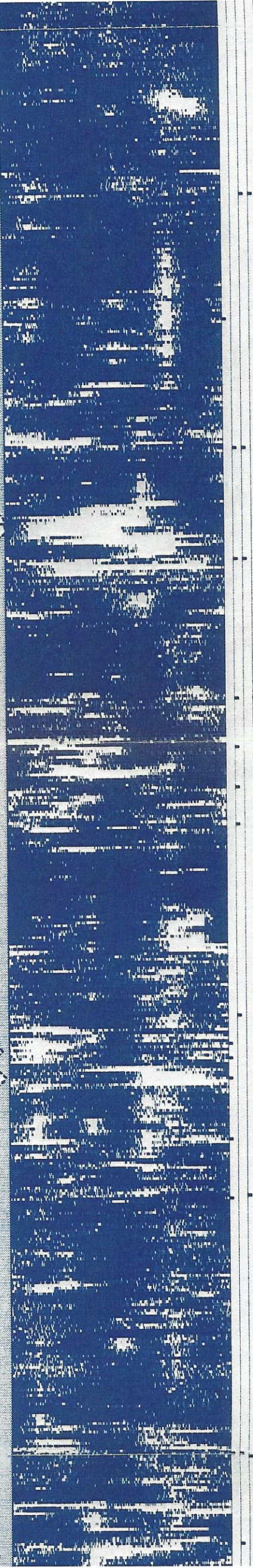
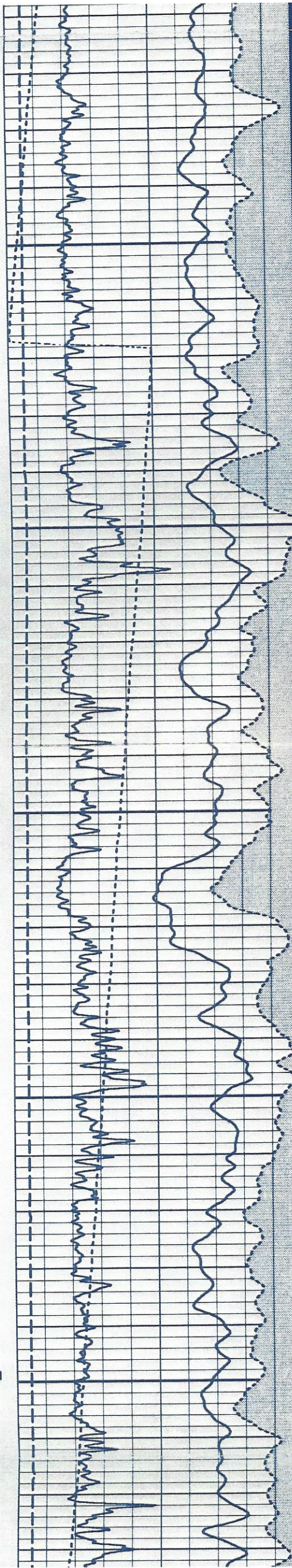


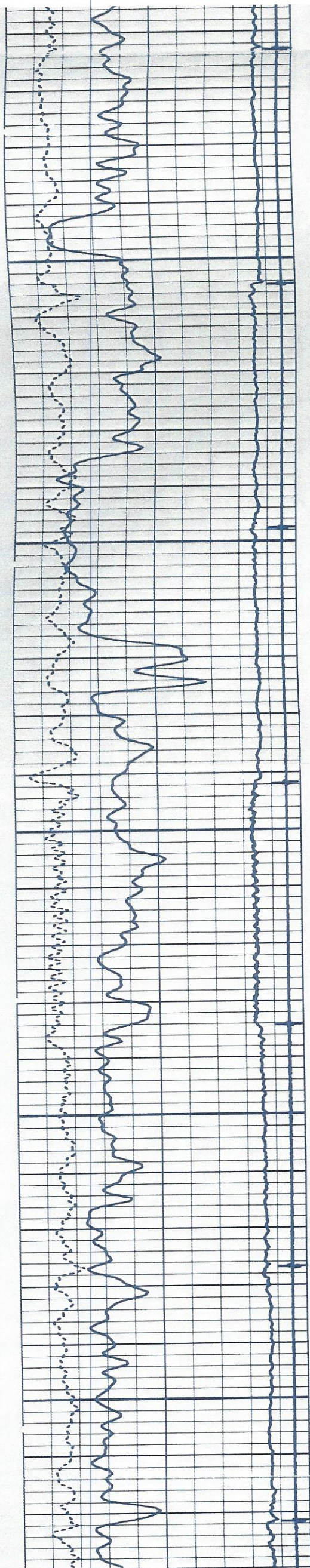


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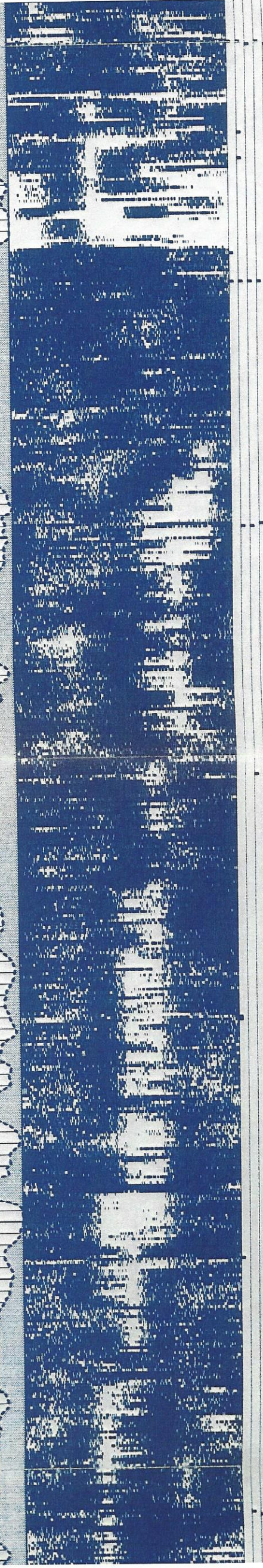
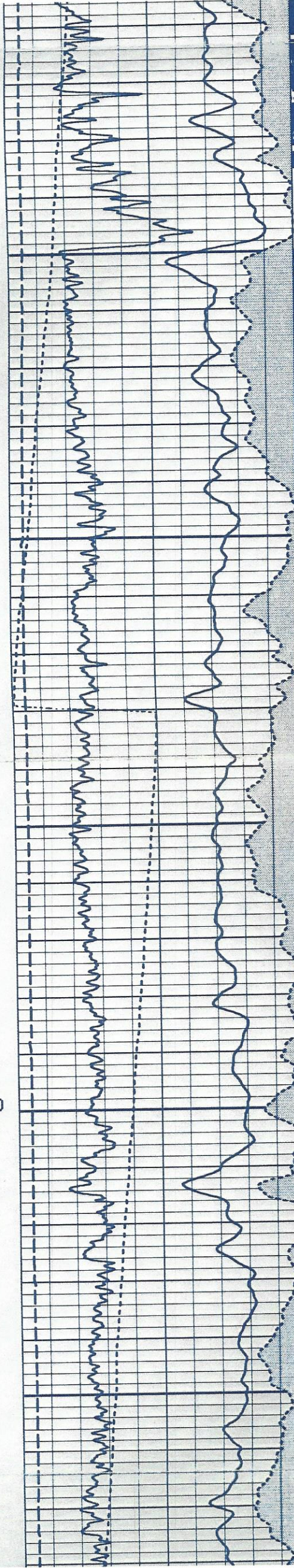
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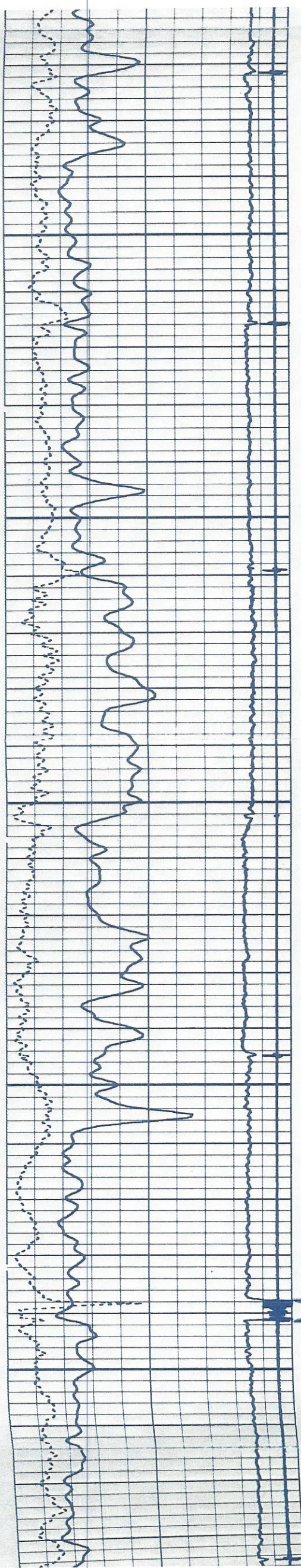




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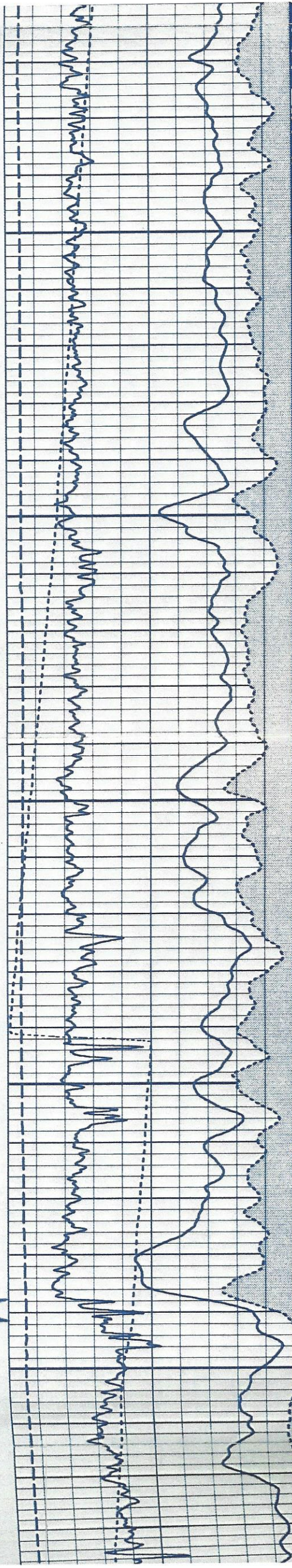
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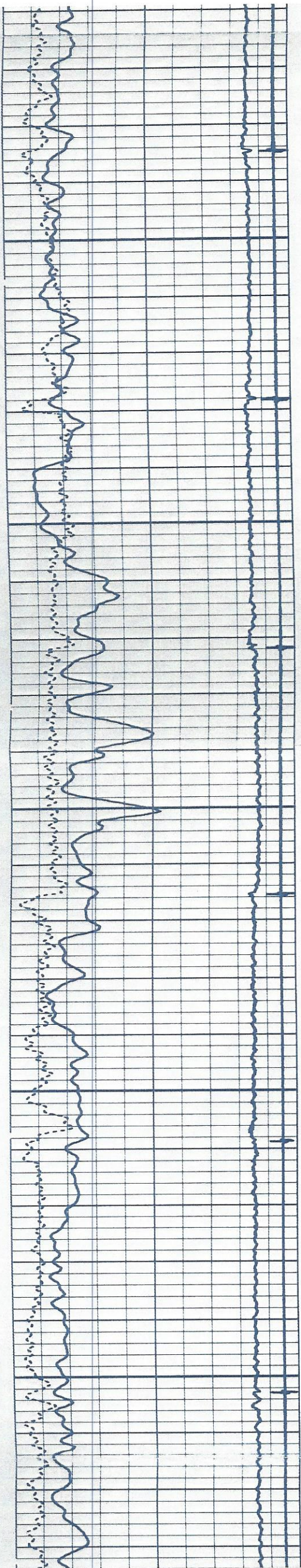
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D.V.

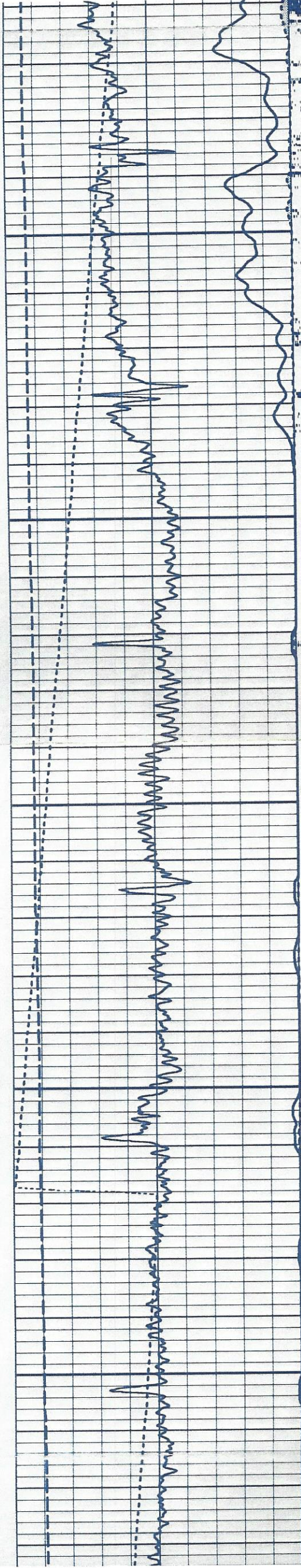
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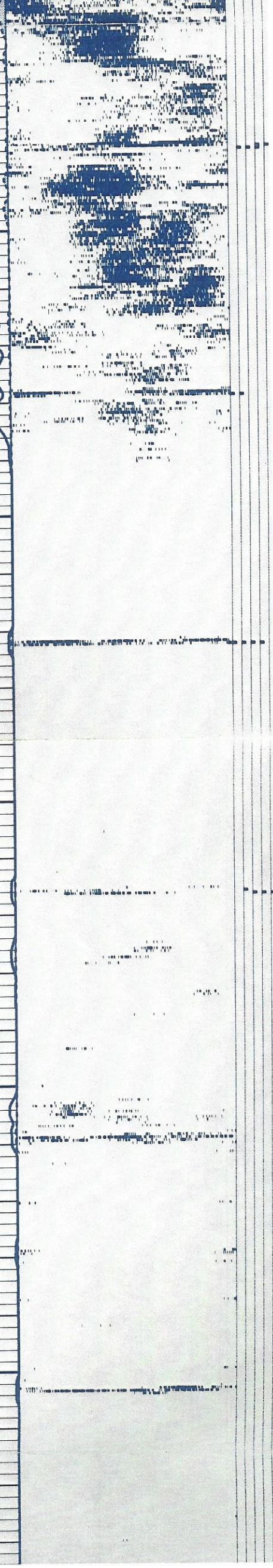


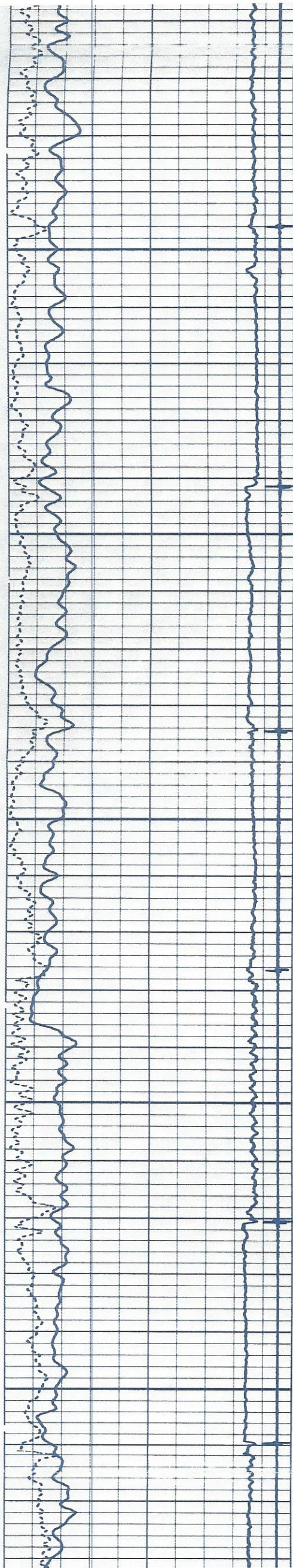


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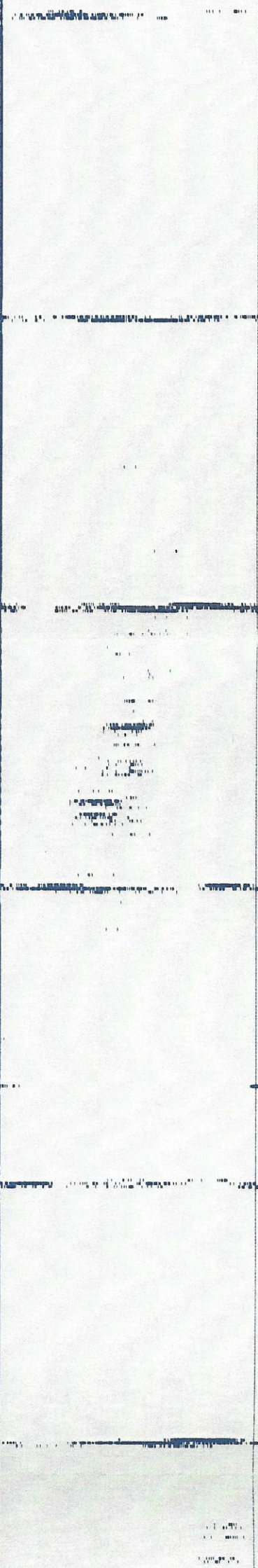
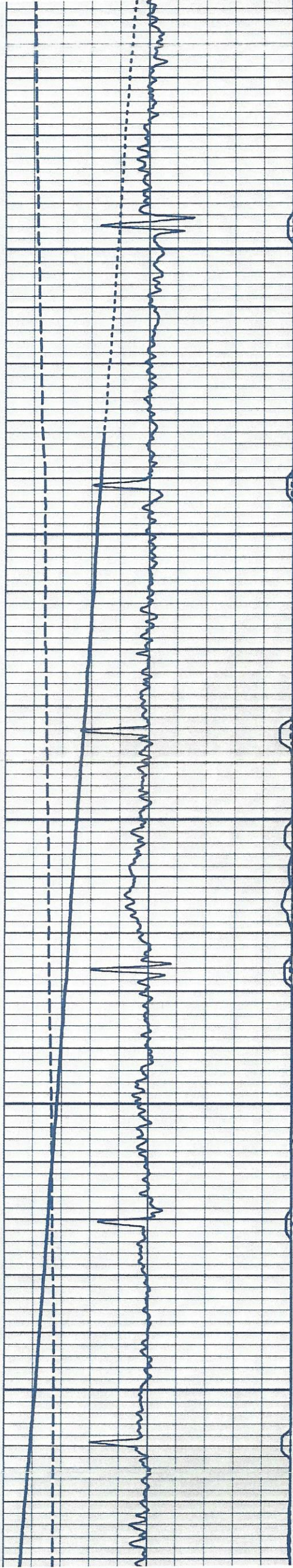


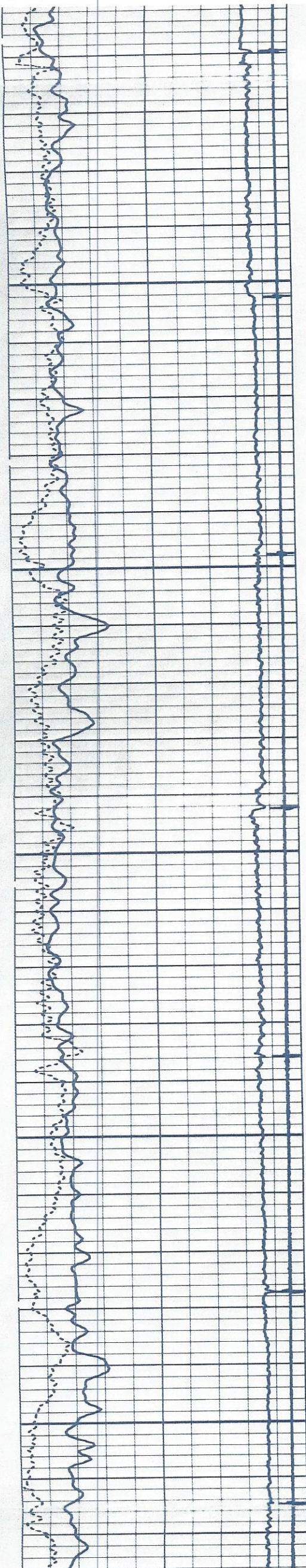


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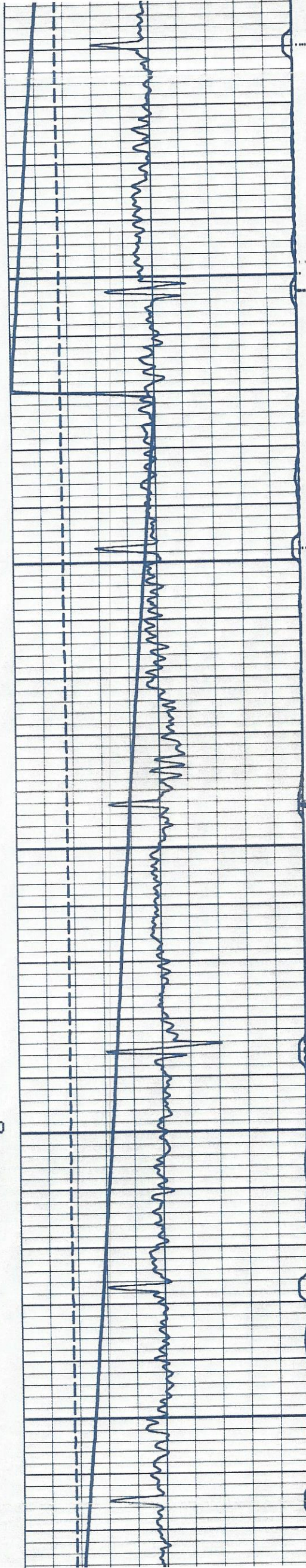
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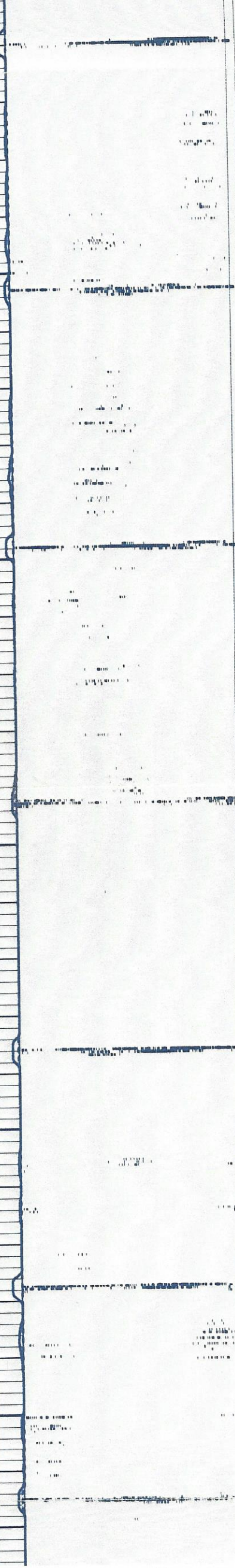


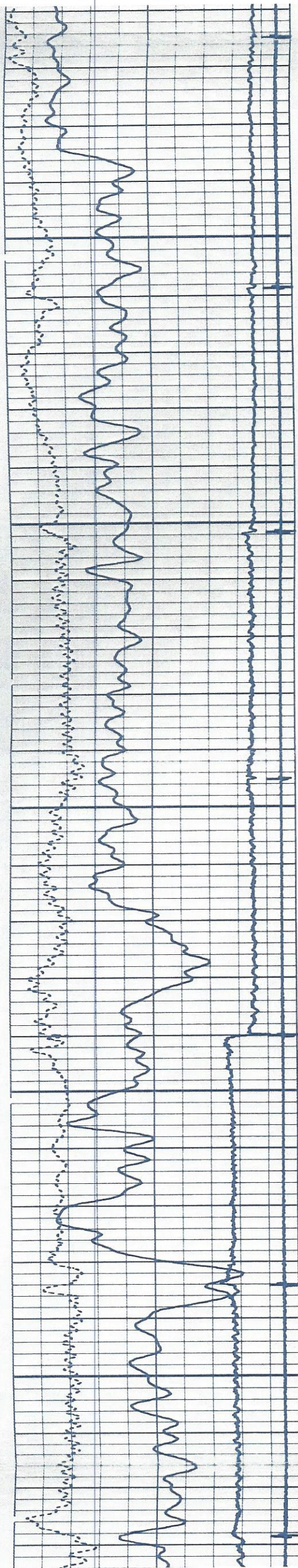


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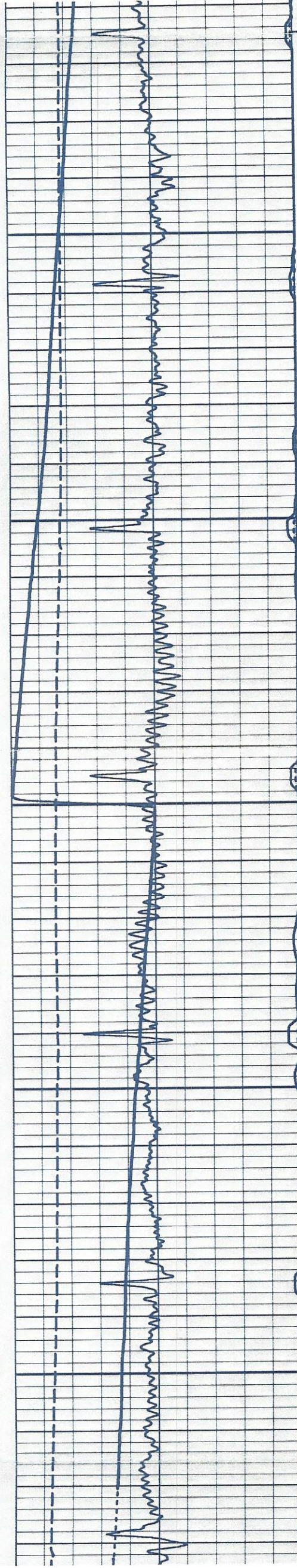


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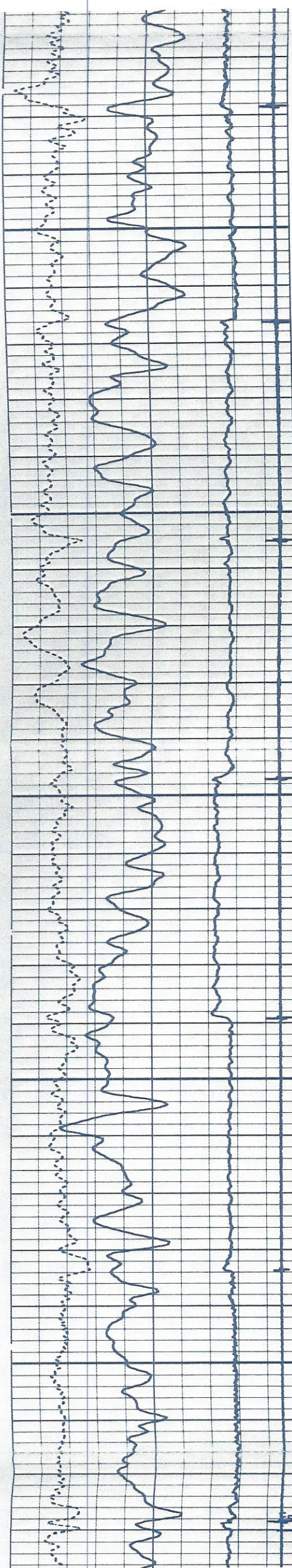


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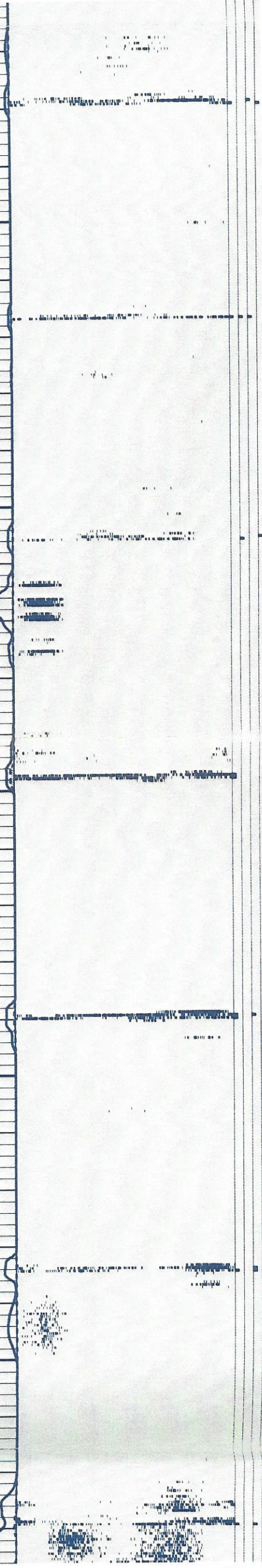
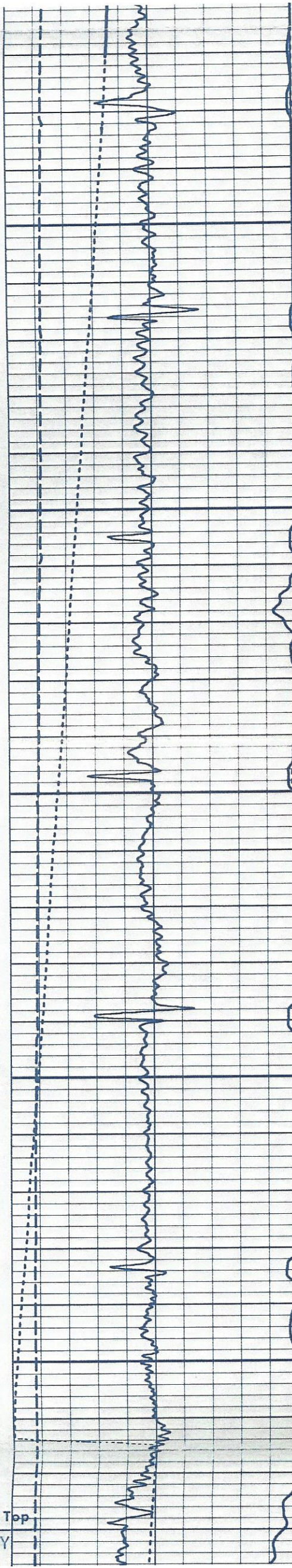
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5600

Est. Cement Top
PRIMARY

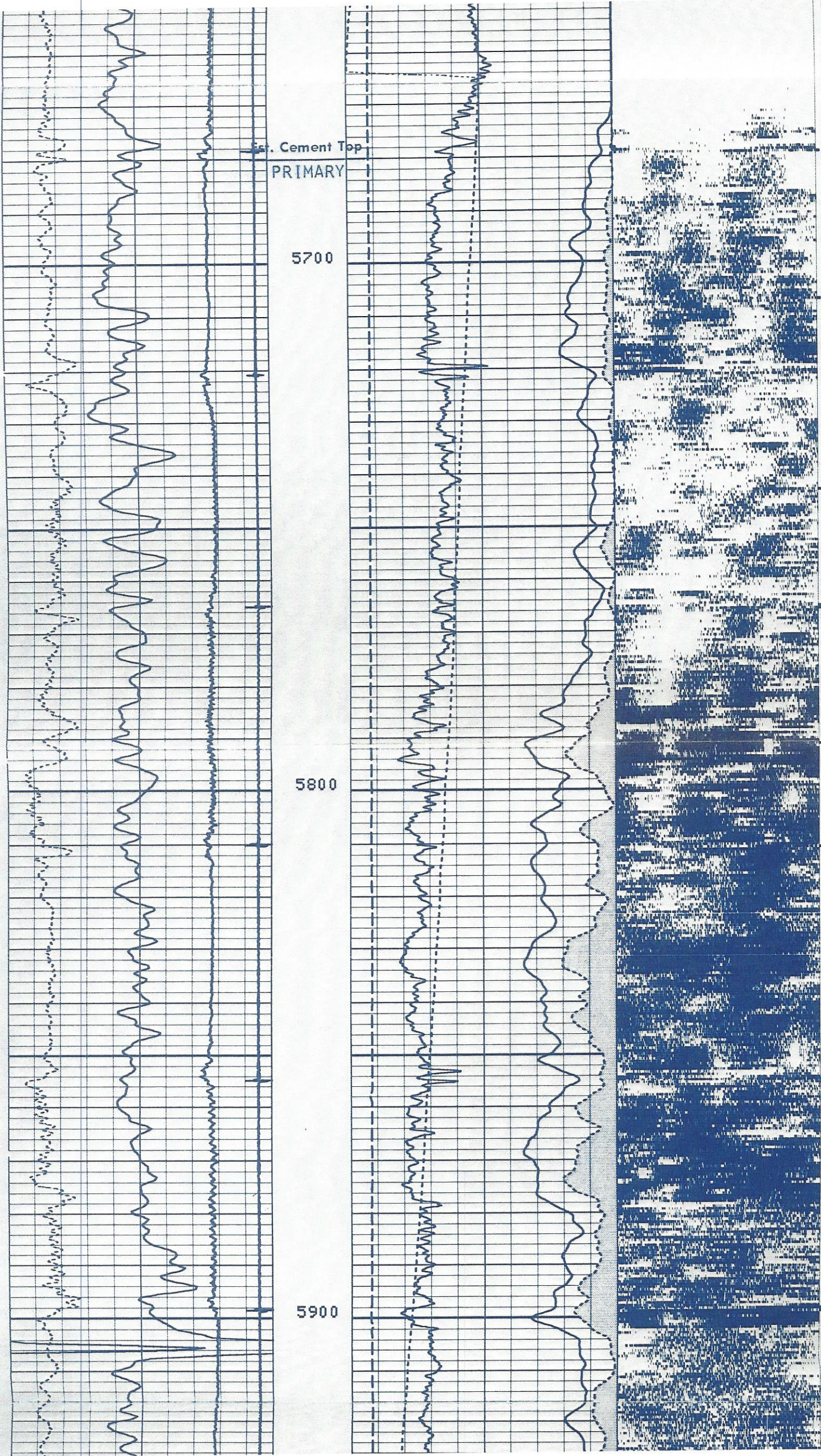


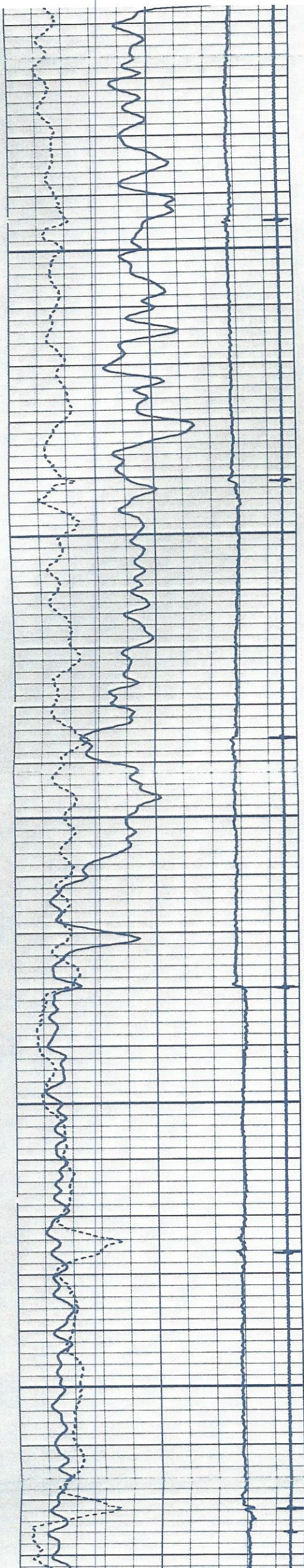
Cement Top
PRIMARY

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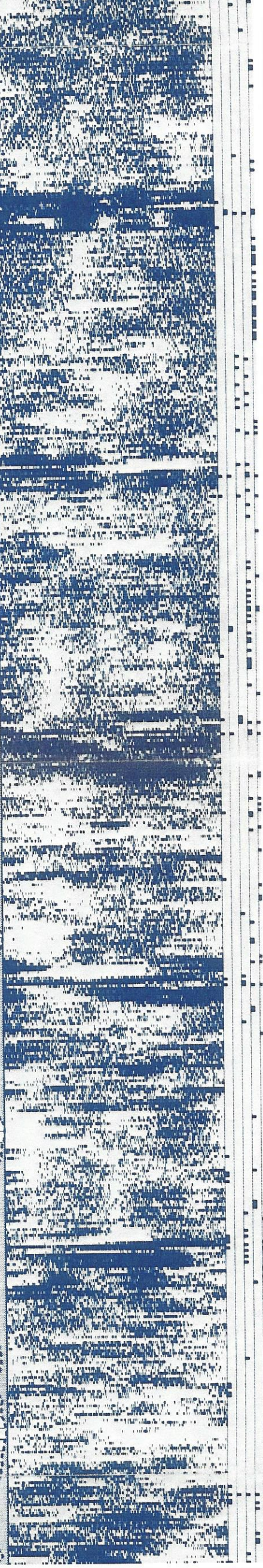
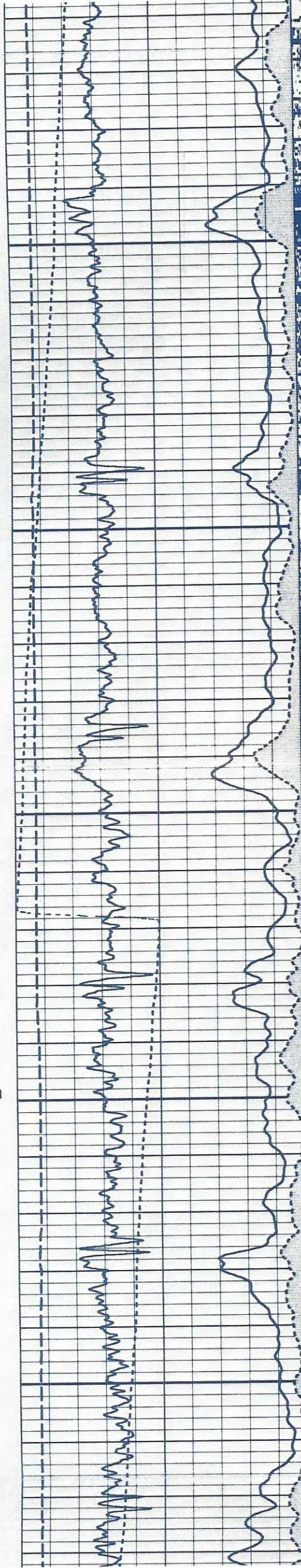
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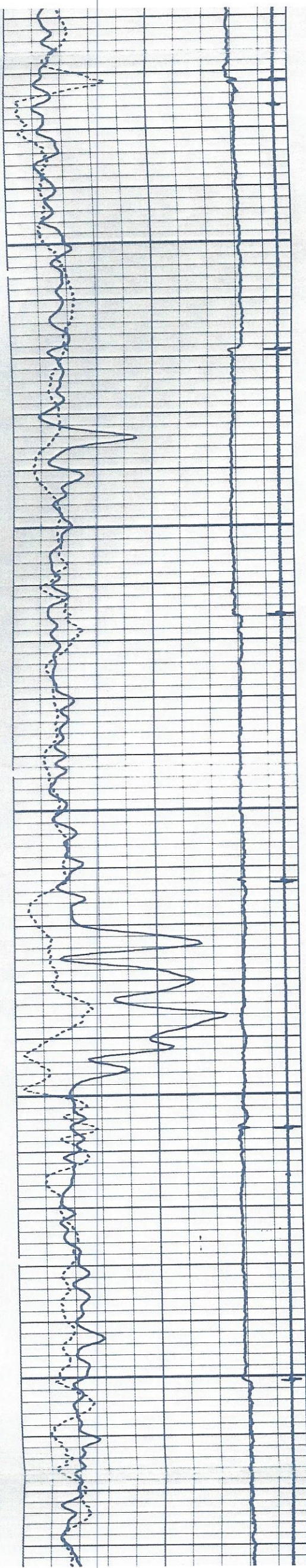




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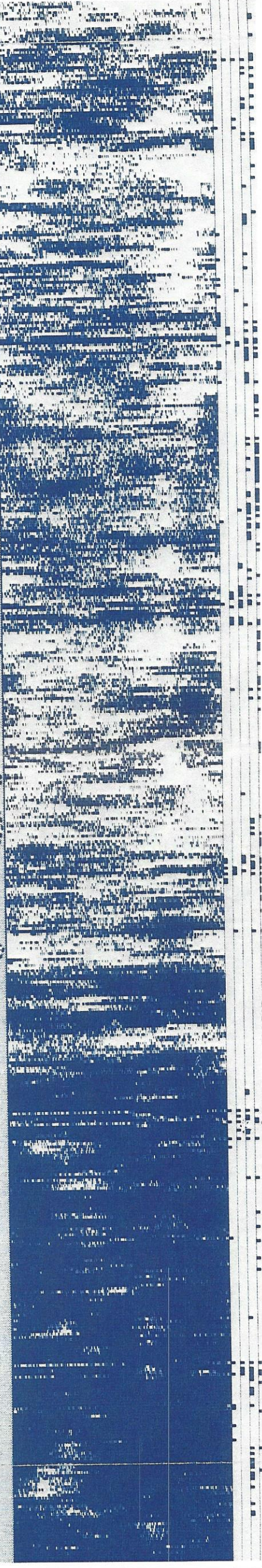
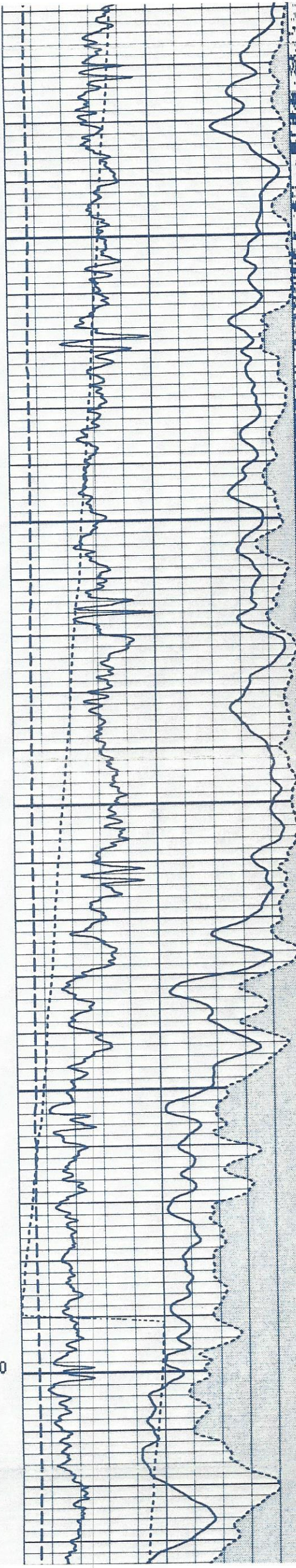


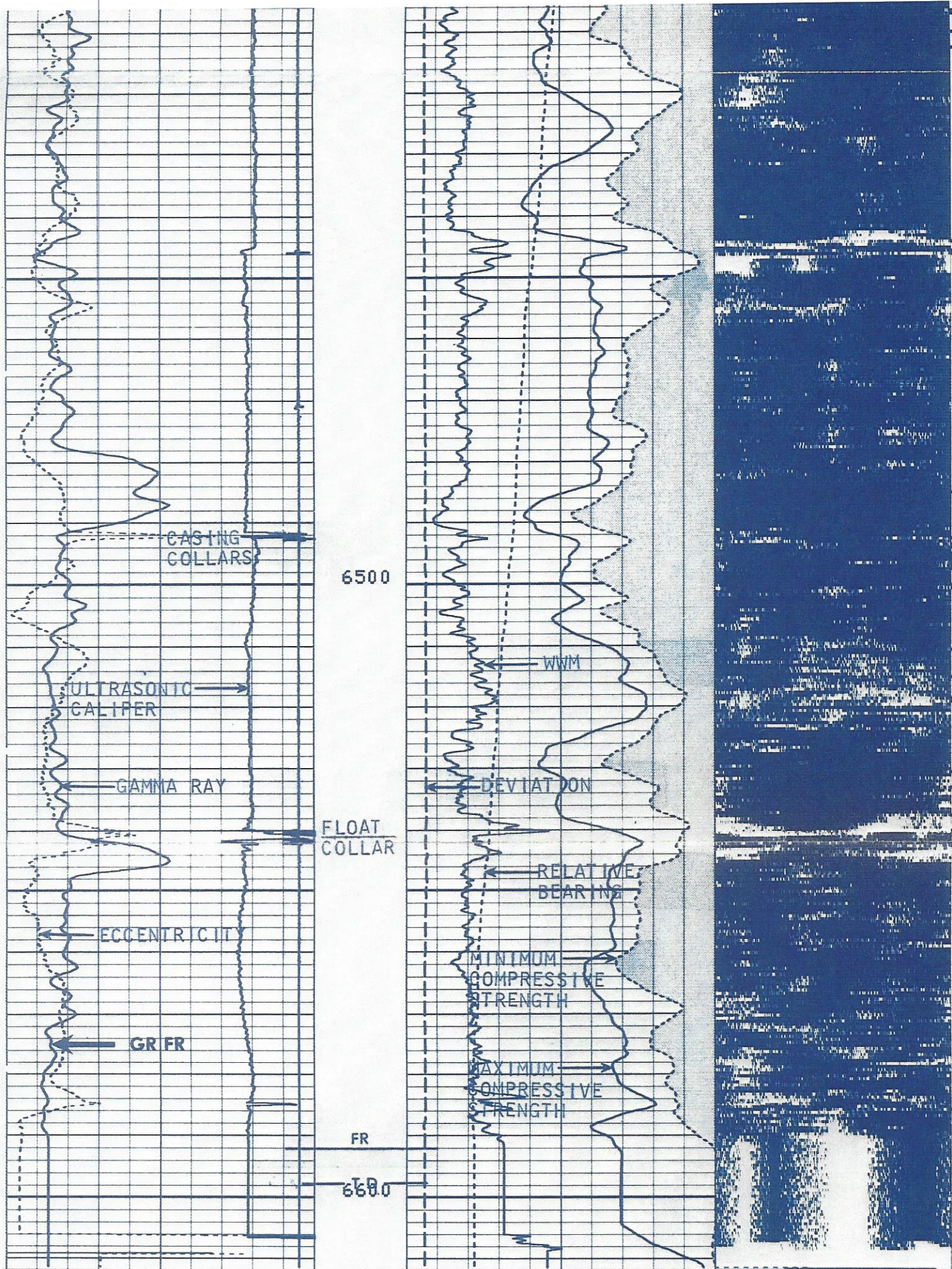


6200

6300

6400





FILE 3 11-MAR-85 11:02

GR (GAPI)		DEVI(DEG)	
0.0	150.00	0.0	40.000
CCL		WWM	
-19.00	1.0000	0.0	2.0000
ECCE(IN)		CSMX	
0.0	.50000	10000.	0.0
CALU(IN)		CSMN	
5.5000	6.5000	10000.	0.0
		RB (DEG)	
		0.0	720.00

SENSOR MEASURE POINT TO TOOL ZERO

STSG 19.7 FEET
RB 6.5 FEET
CCL 34.0 FEET

GR 24.3 FEET
DEVI 6.5 FEET
TENS 0.7 FEET