

Gamma Ray C C L
Cement Bond Log
V D L

Company Noble Energy Well Sater CC 19-9 Field Wattenberg County Weld State Colo	Company		Noble Energy	
	Well		Sater CC 19-9	
	Field		Wattenberg	
	County		Weld	State Colo
	Location: Sec 19 Twp 4N Rge 63W		Other Services	
		1880 FSL 660 FEL NE SE		
		Elevation		
Permanent Datum		G L	Elevation 4698	
Log Measured From		K B	K.B. 4712	
Drilling Measured From		K B	D.F. 4711	
			G.L. 4698	
Date		10-16-06		
Run Number		One		
Depth Driller		7320		
Depth Logger		7283		
Bottom Logged Interval		7282		
Top Log Interval		1500		
Fluid Level		Full		
Type Fluid		Water		
Density / Viscosity				
Max. Recorded Temp.		248		
Estimated Cement Top		1680		
Time Well Ready				
Time Logger on Bottom				
Equipment Number		T 3 Tool 3		
Location		Platteville		
Recorded By		A. Munday		
Witnessed By		Mr. Conrey		
Borehole Record				
Run Number	Bit	From	To	
Tubing Record				
Run Number	Bit	From	To	
Casing Record				
Surface String	Size	Wgt/Ft	Top	
Prot. String			Bottom	
Production String	4 1/2	11.6	000	
Liner			T D	

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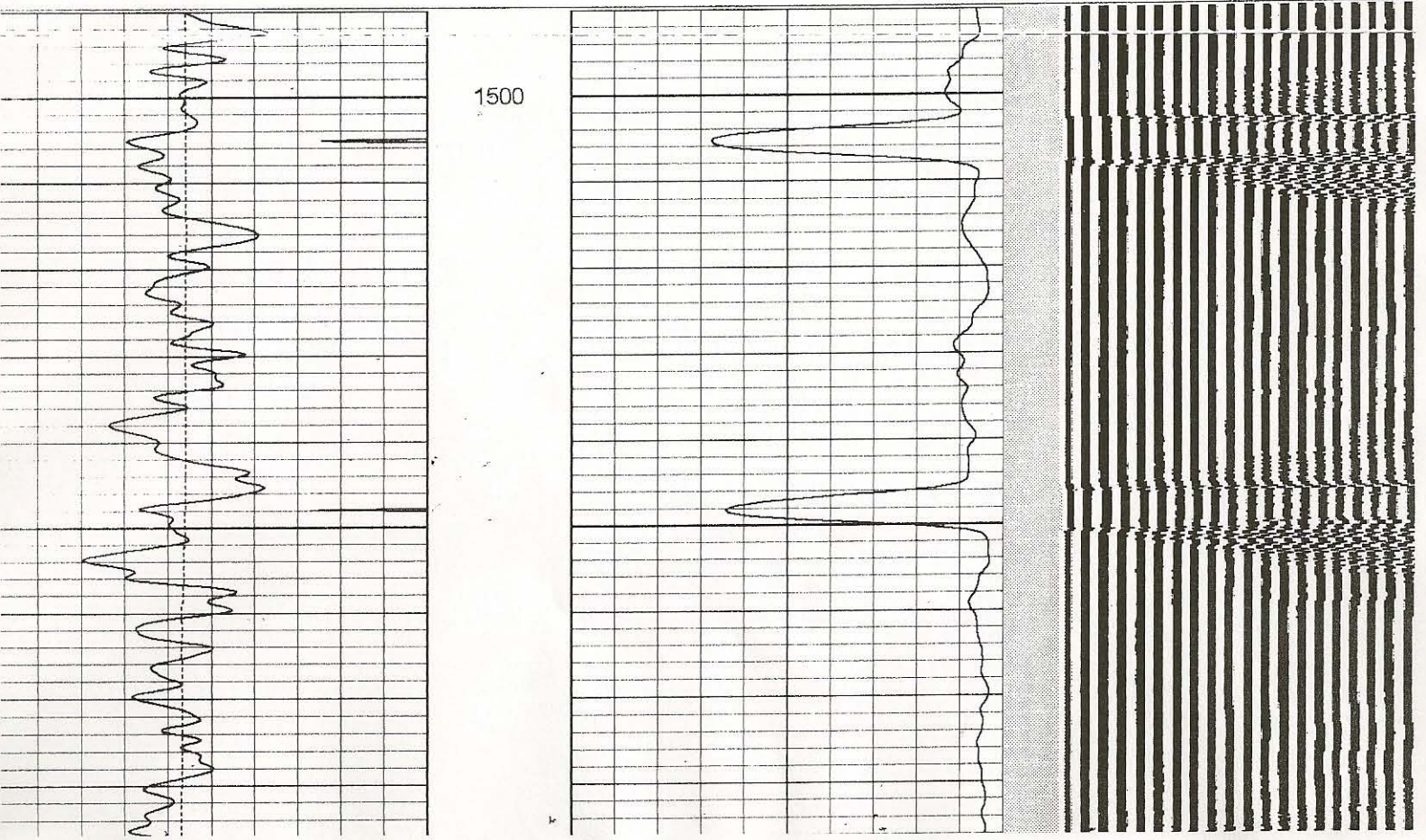
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or 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 set out in our current Price Schedule.

Comments

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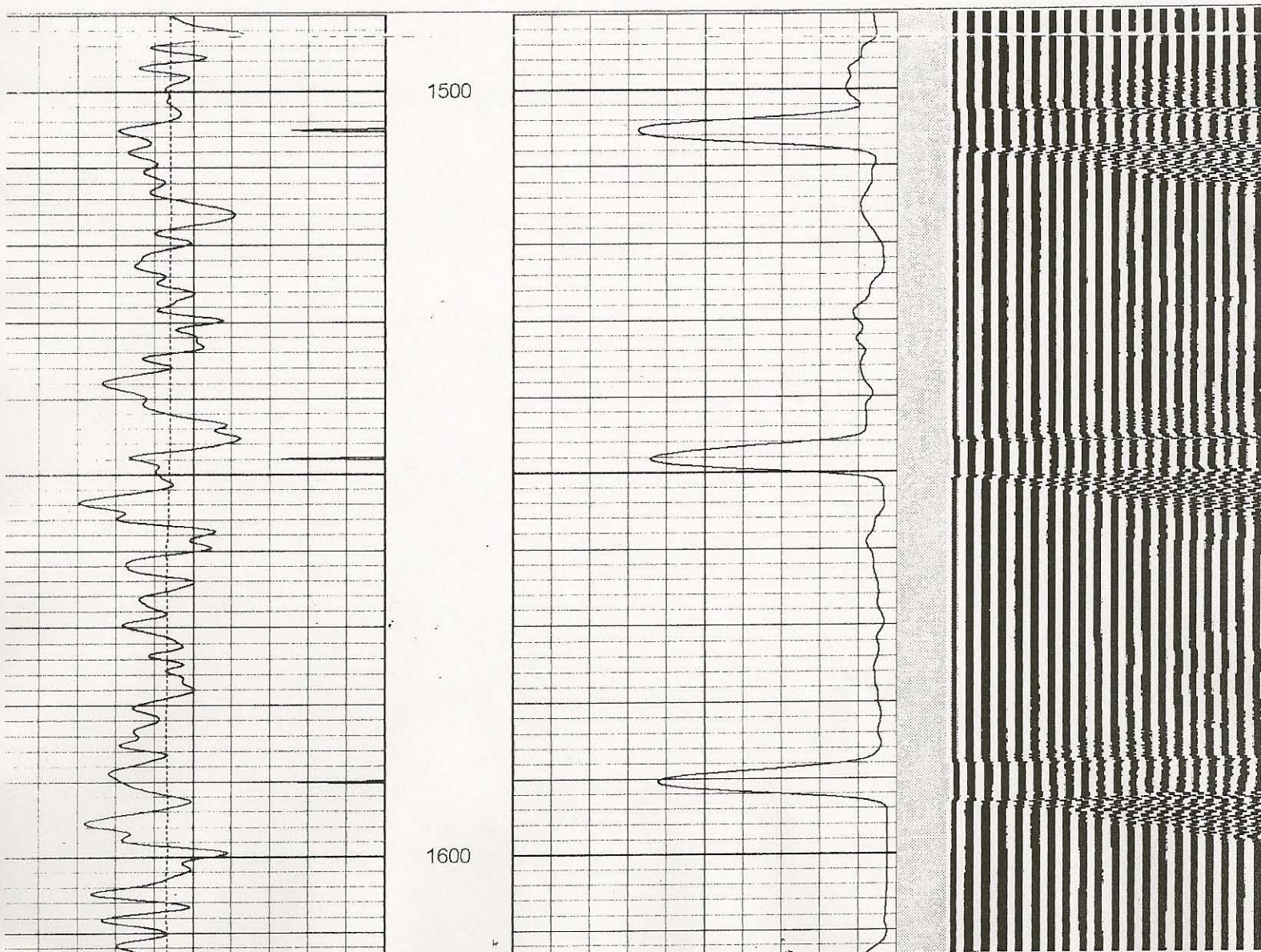
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Dataset Pathname: pass3
Presentation Format: bond
Dataset Creation: Mon Oct 16 08:19:31 2006 by Log Warrior 7.0 Standar
Charted by: Depth in Feet scaled 1:240

9	CCL	0.5	0	Amplitude (Pipe Bond) (mV)	100	200	VDL	120
30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	10			
0	Line Speed (ft/min)	-300						

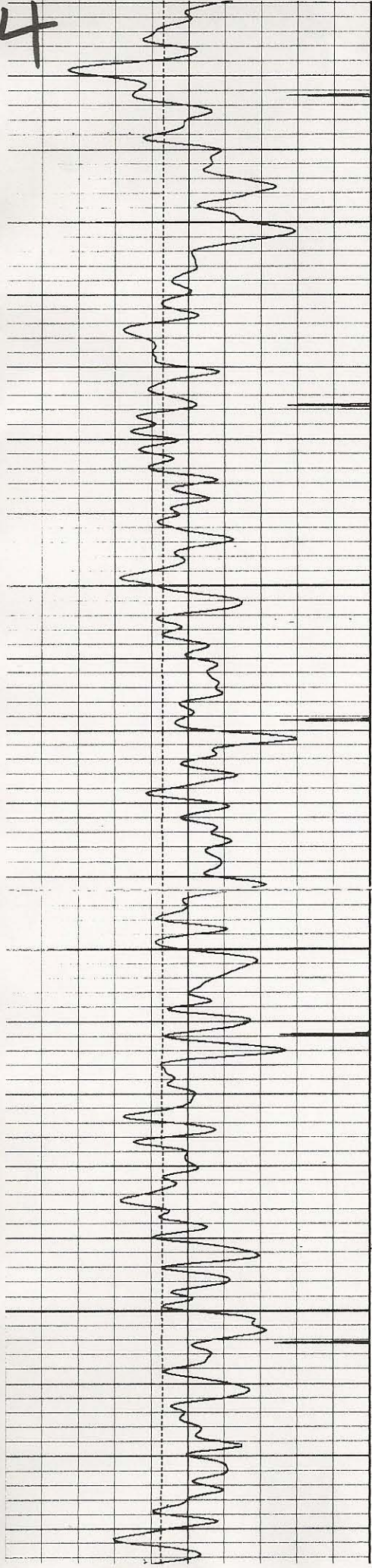


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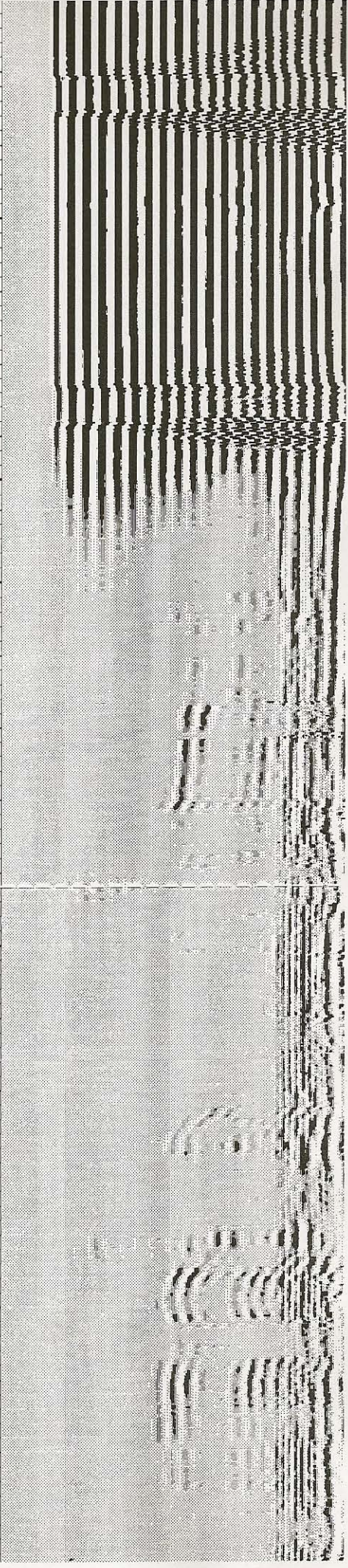
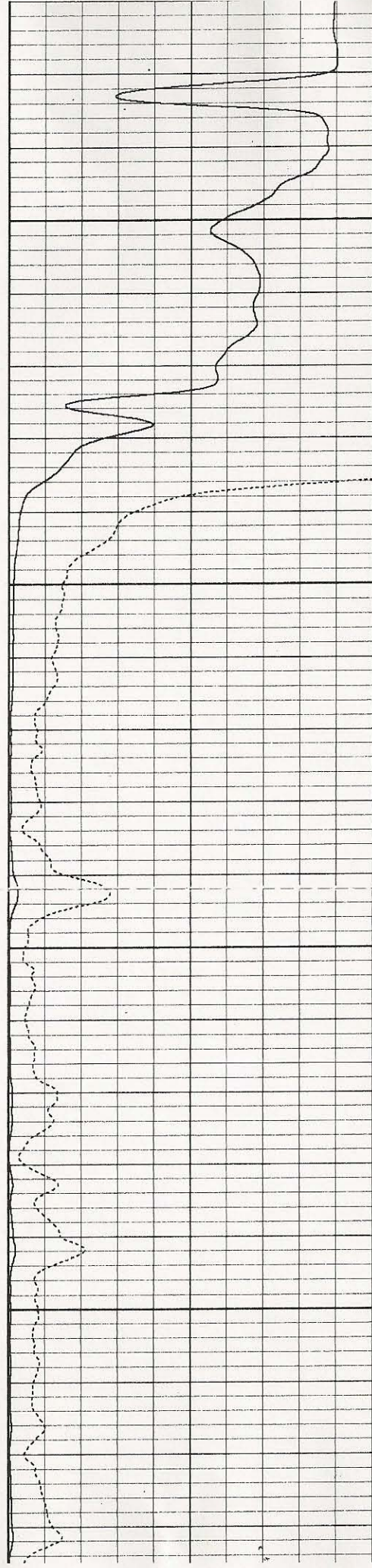


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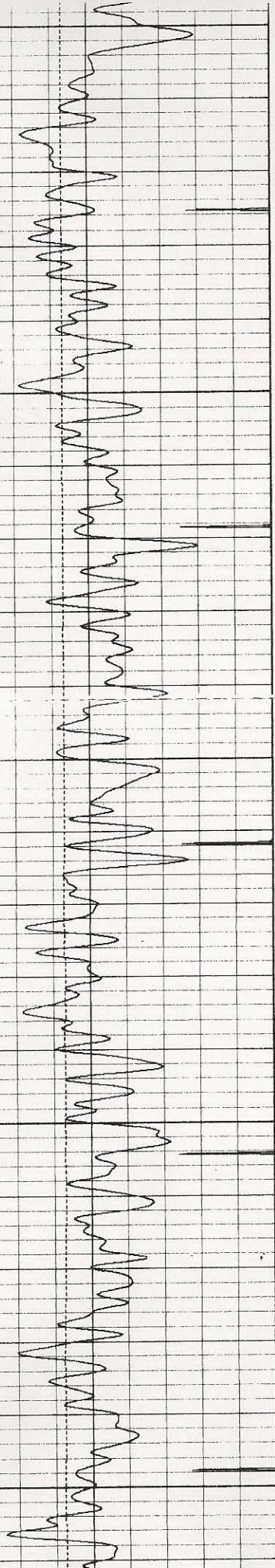


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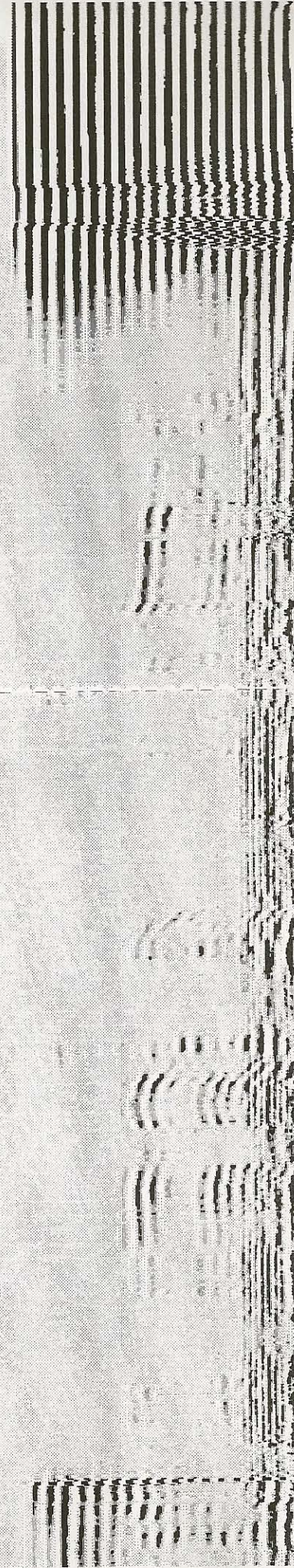
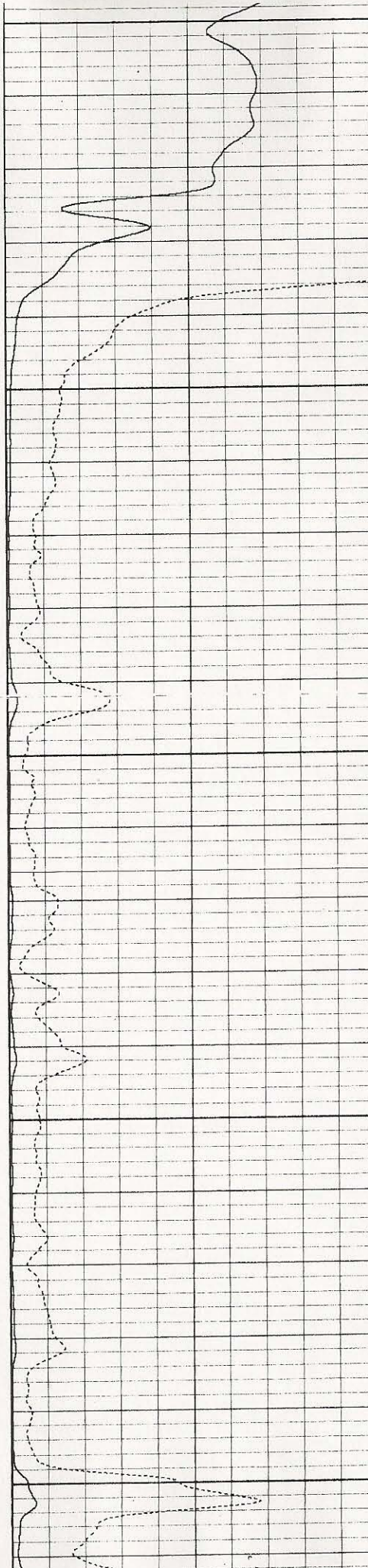


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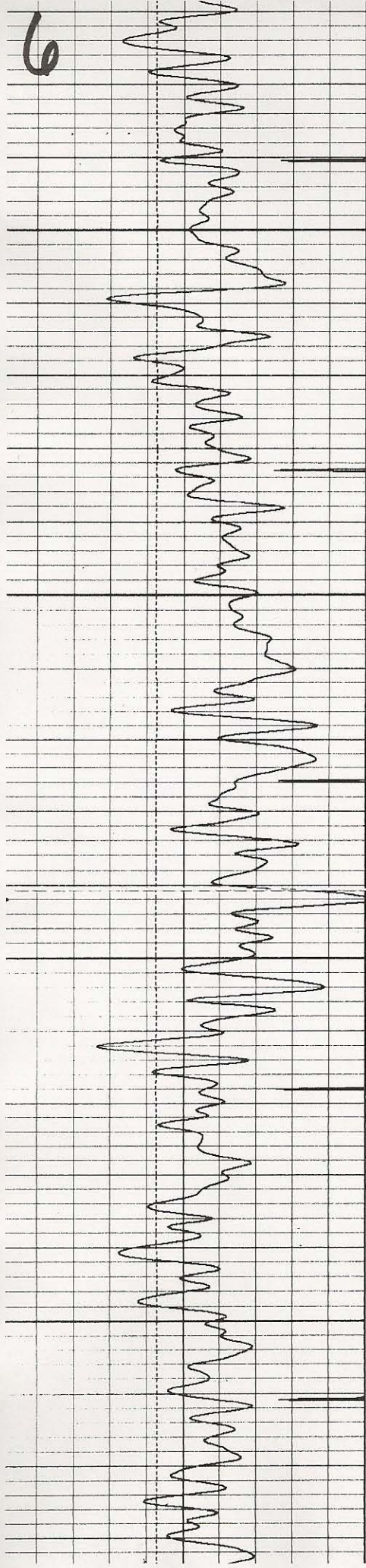


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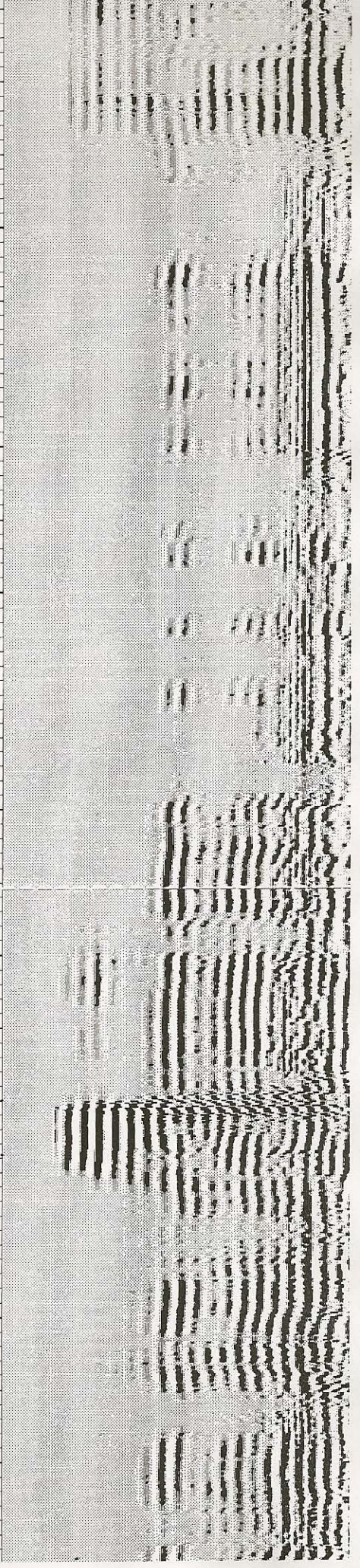
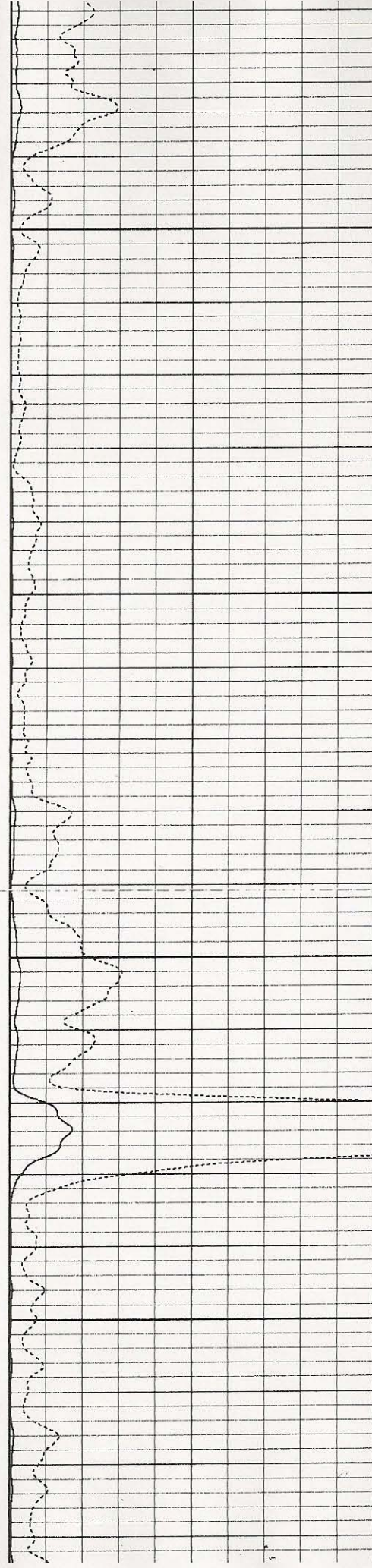


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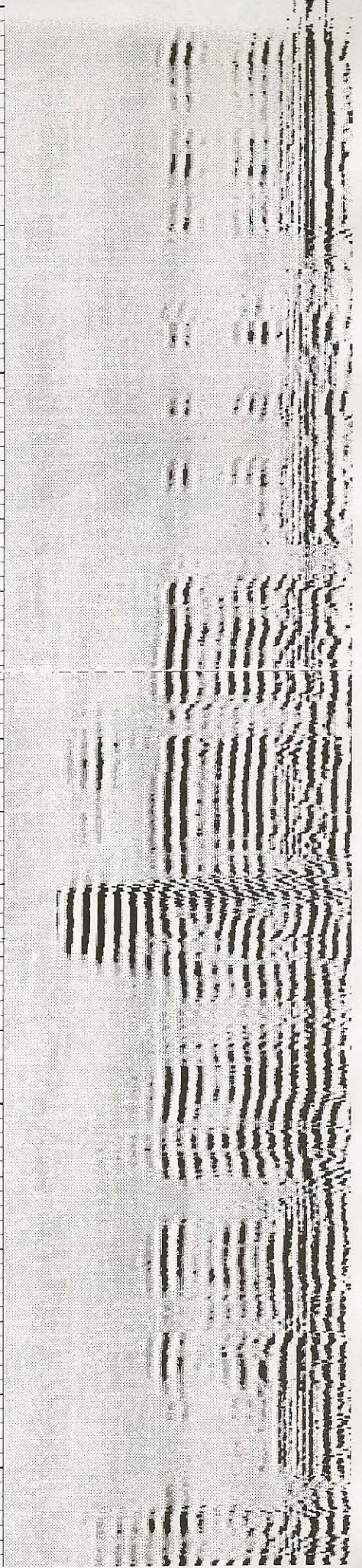
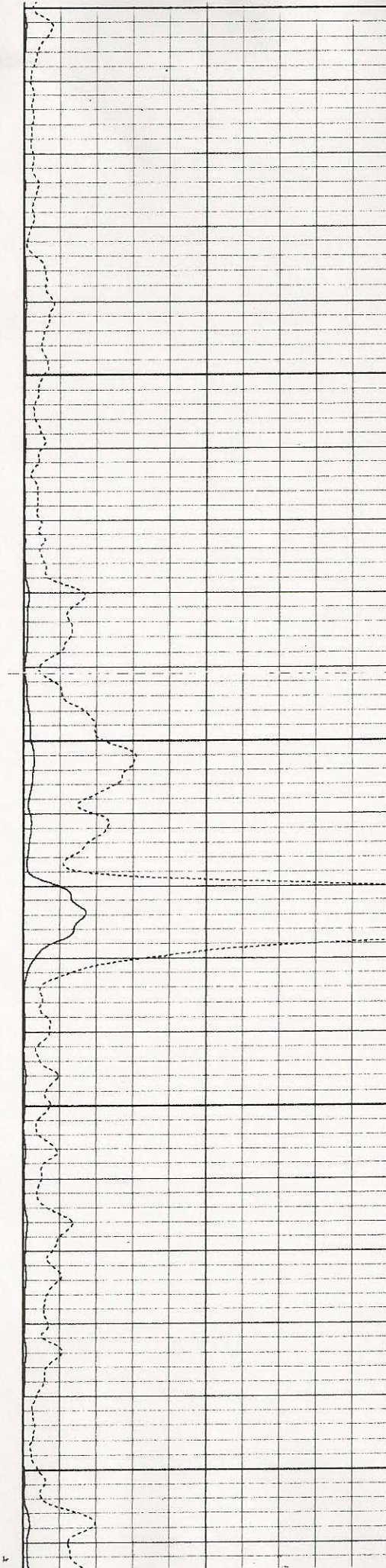
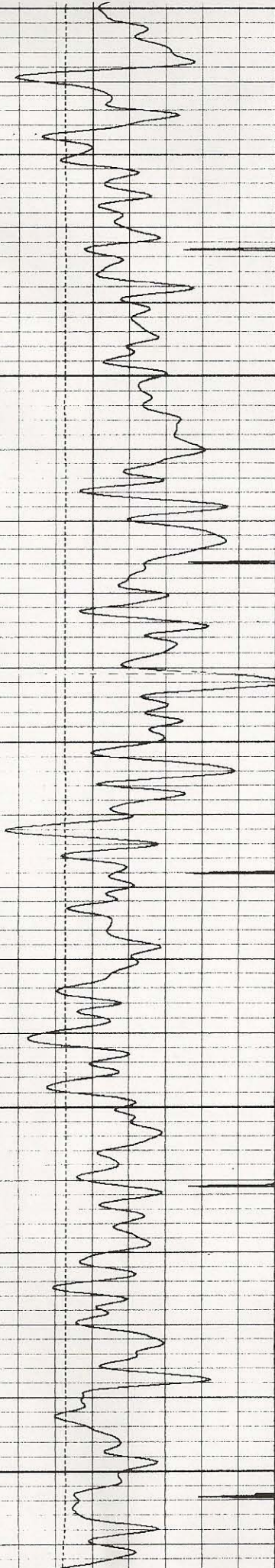


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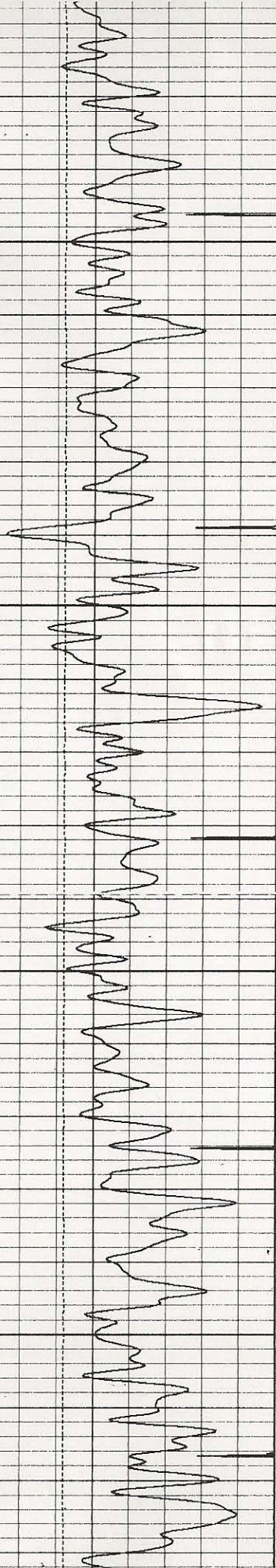
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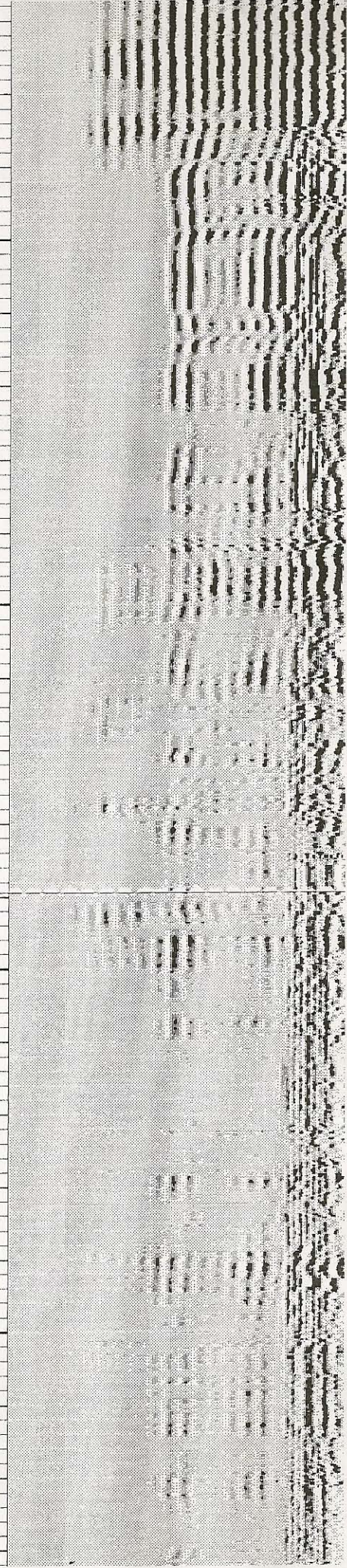
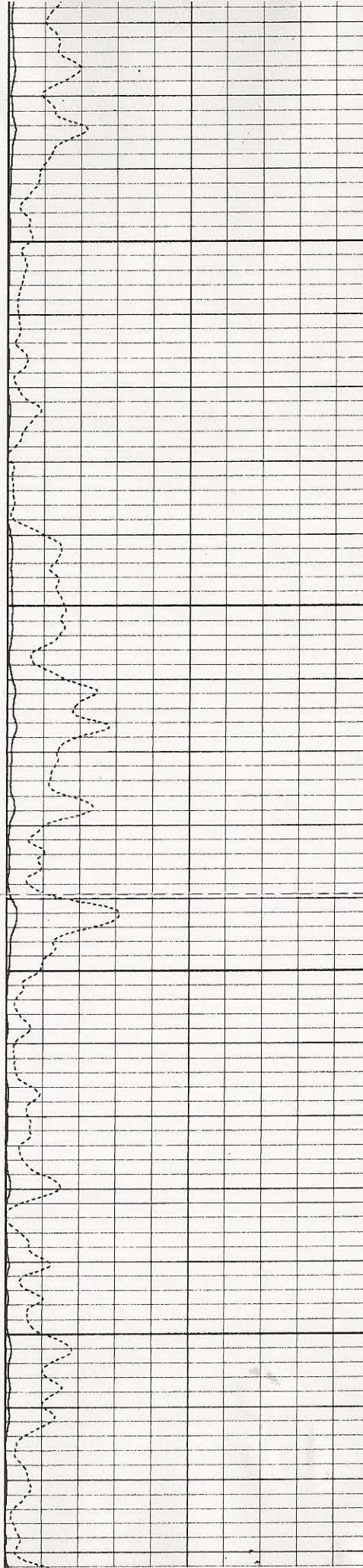


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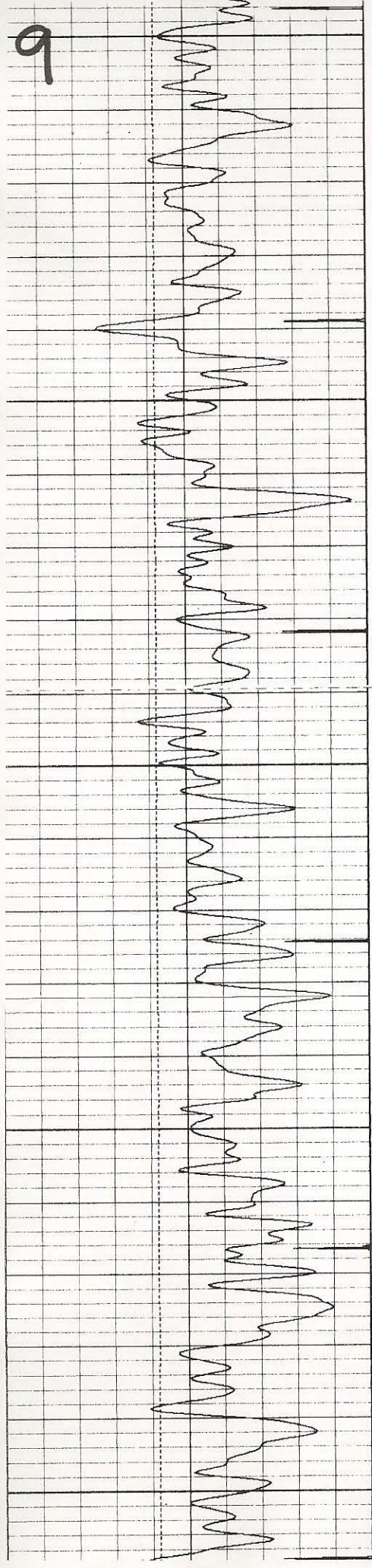


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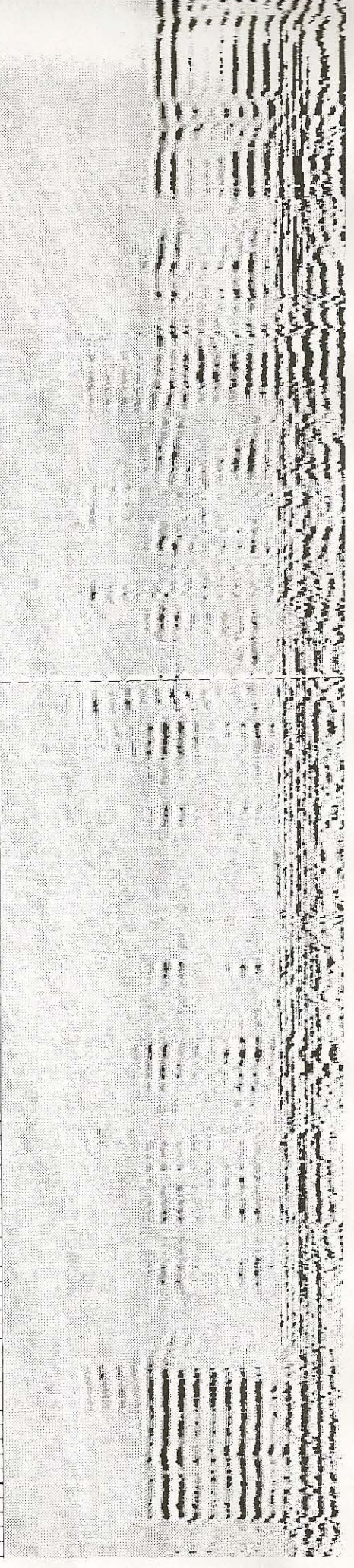
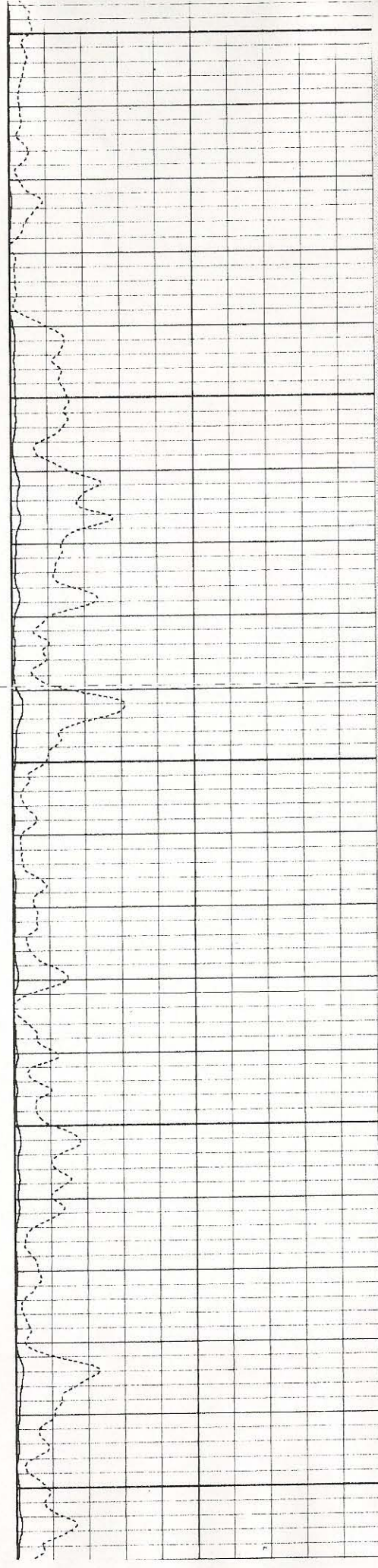


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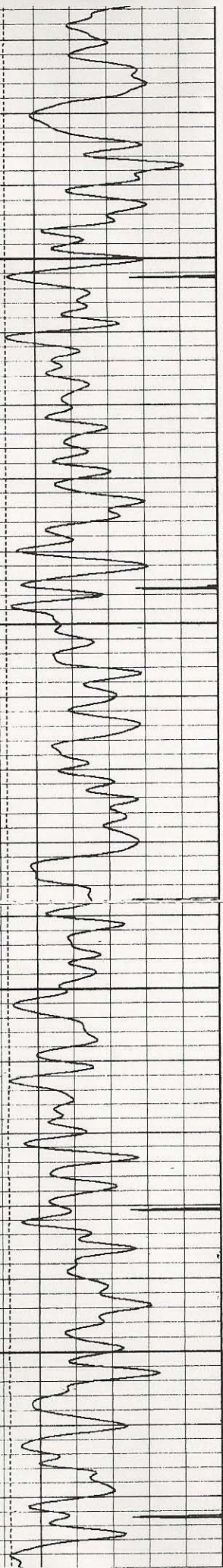


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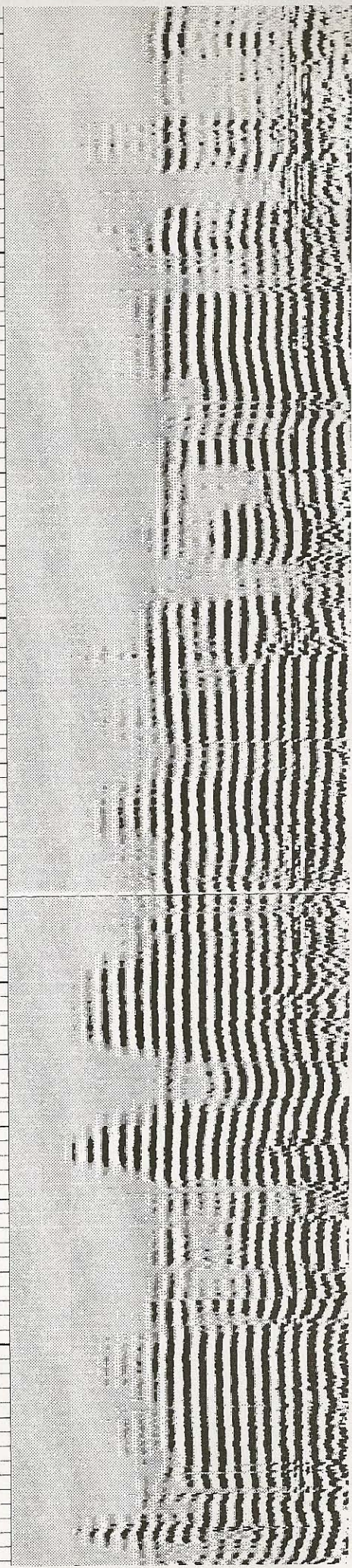
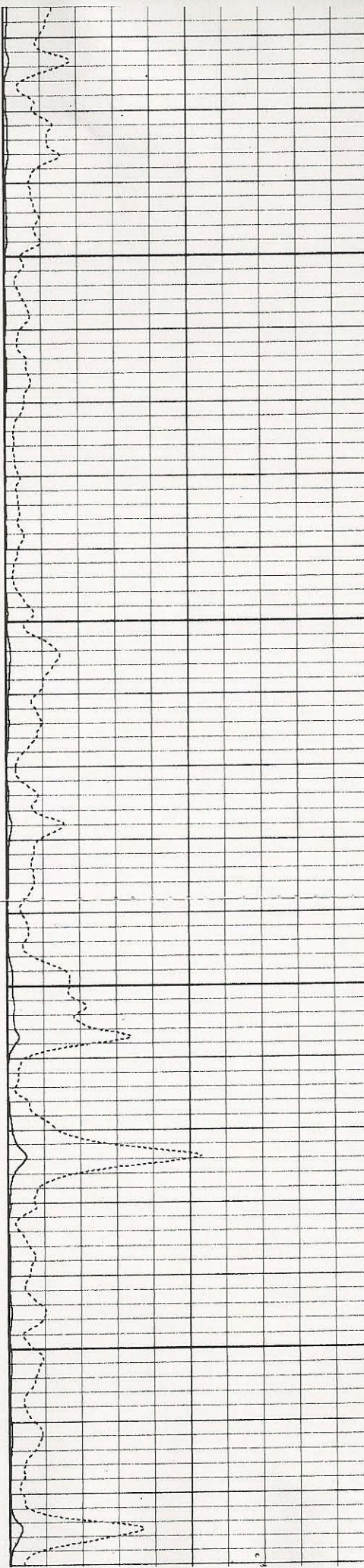


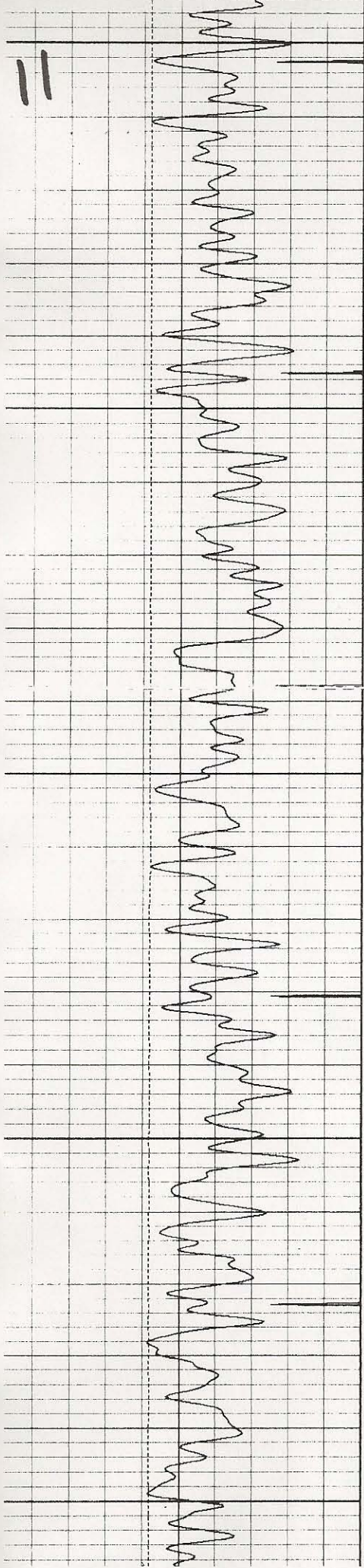
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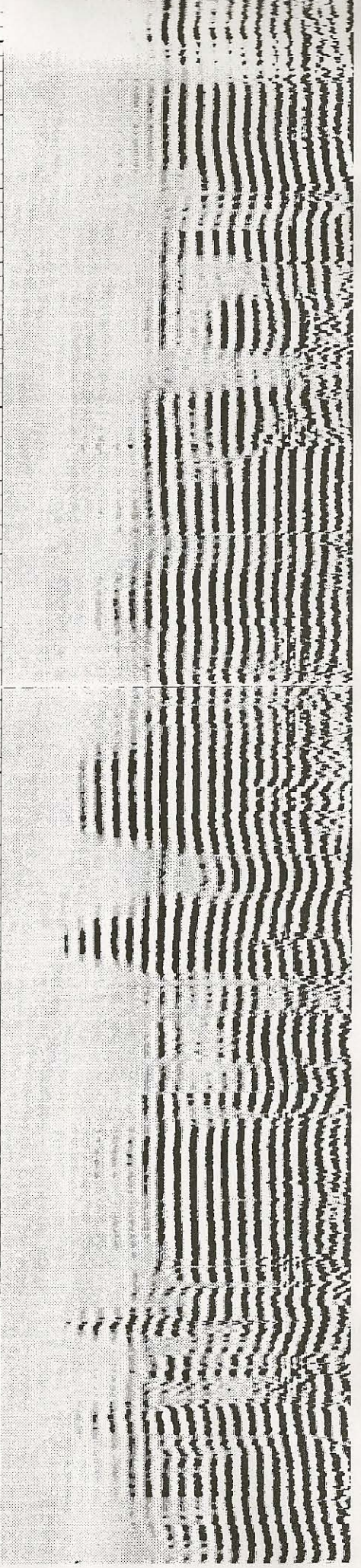
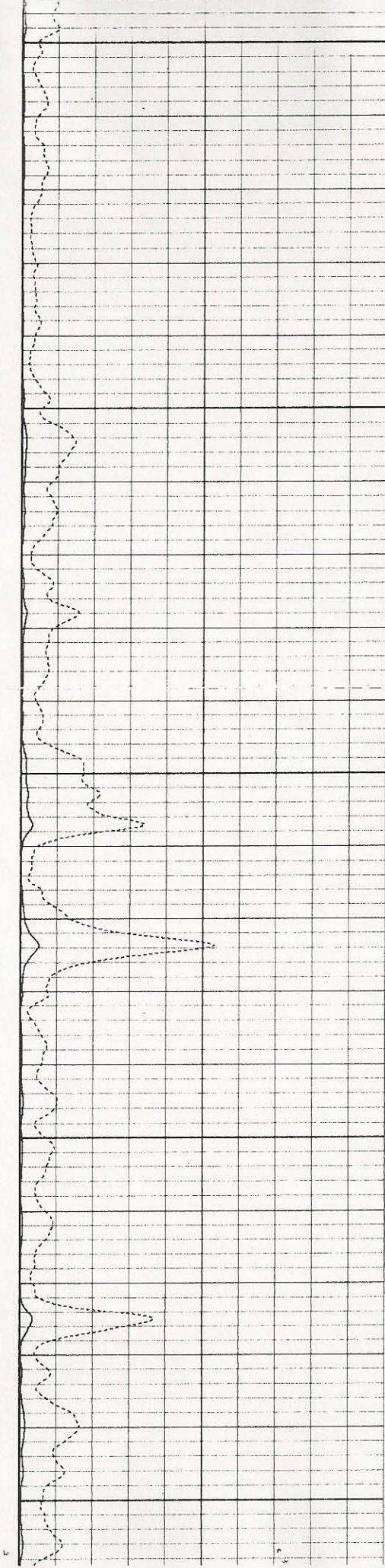




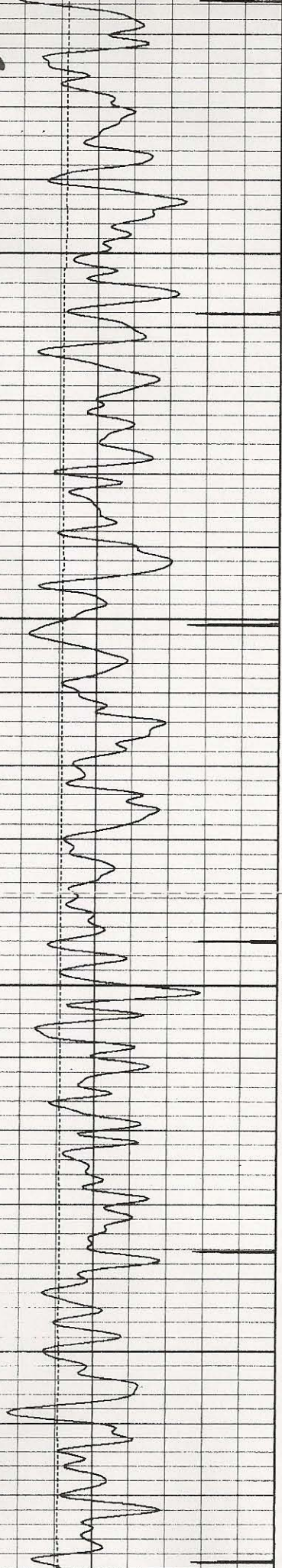
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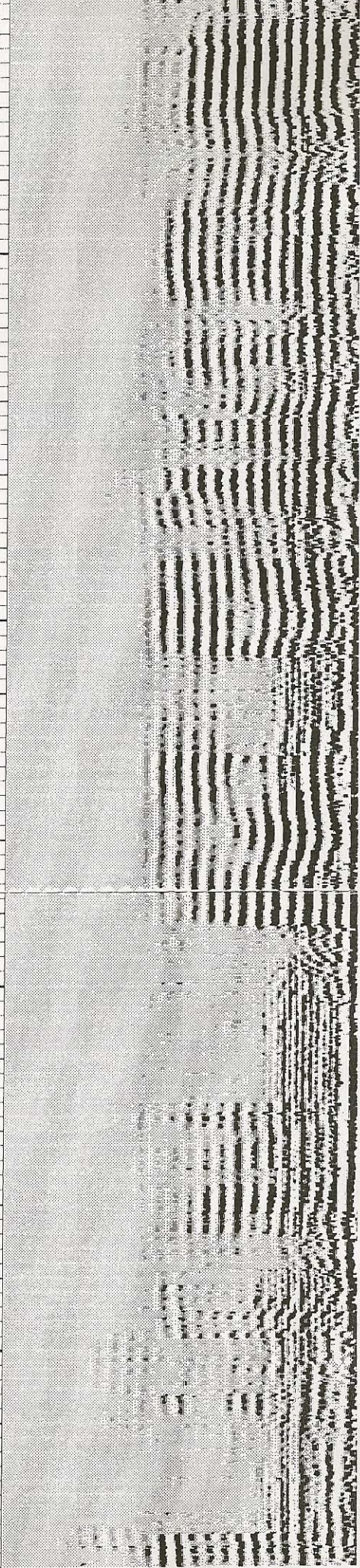
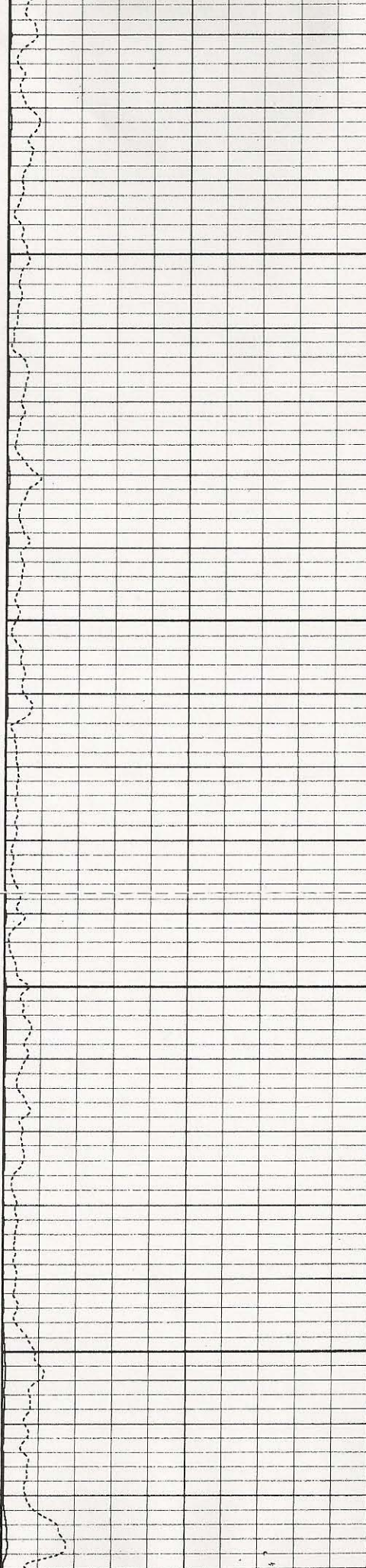


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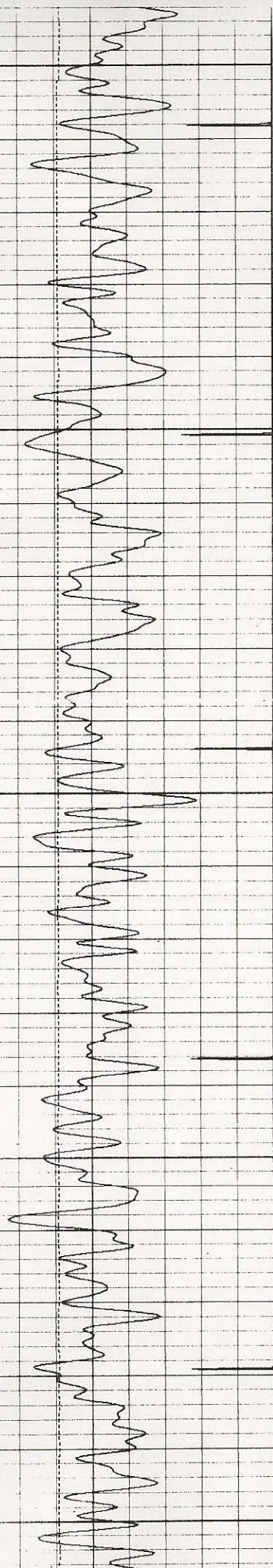


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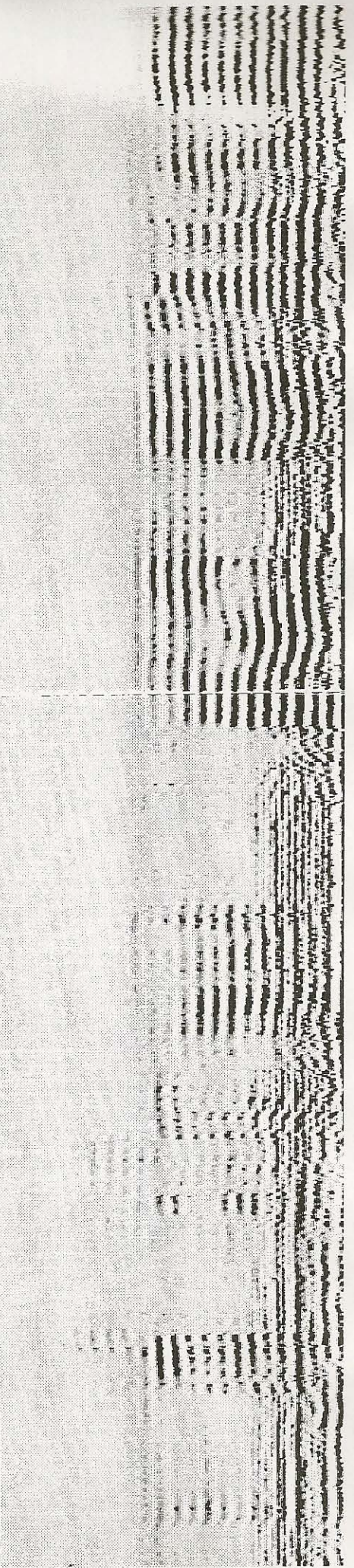
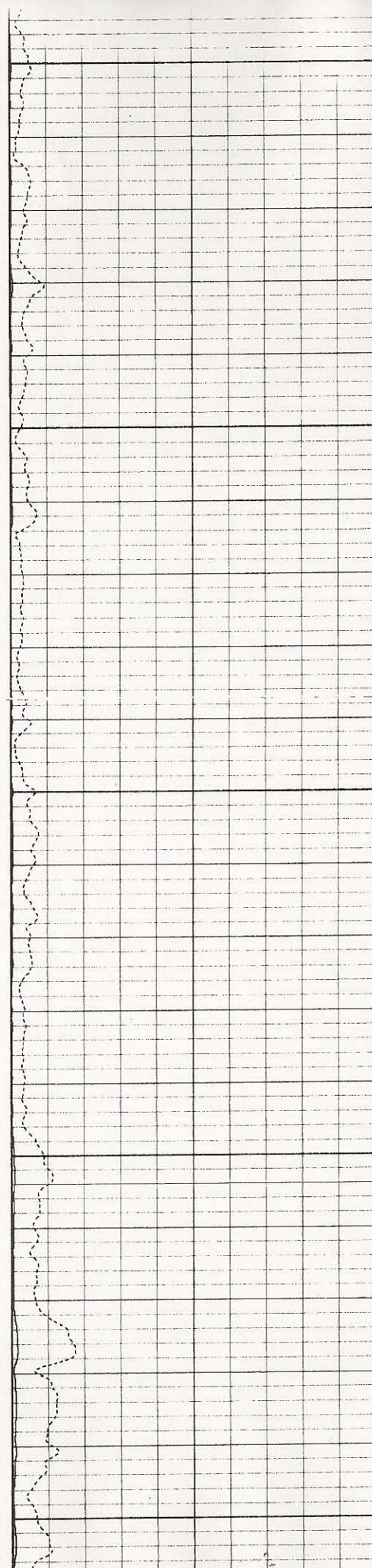


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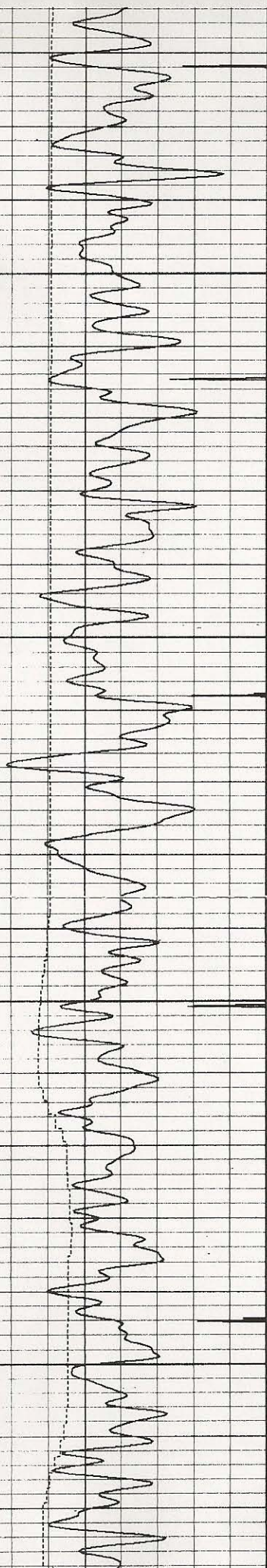


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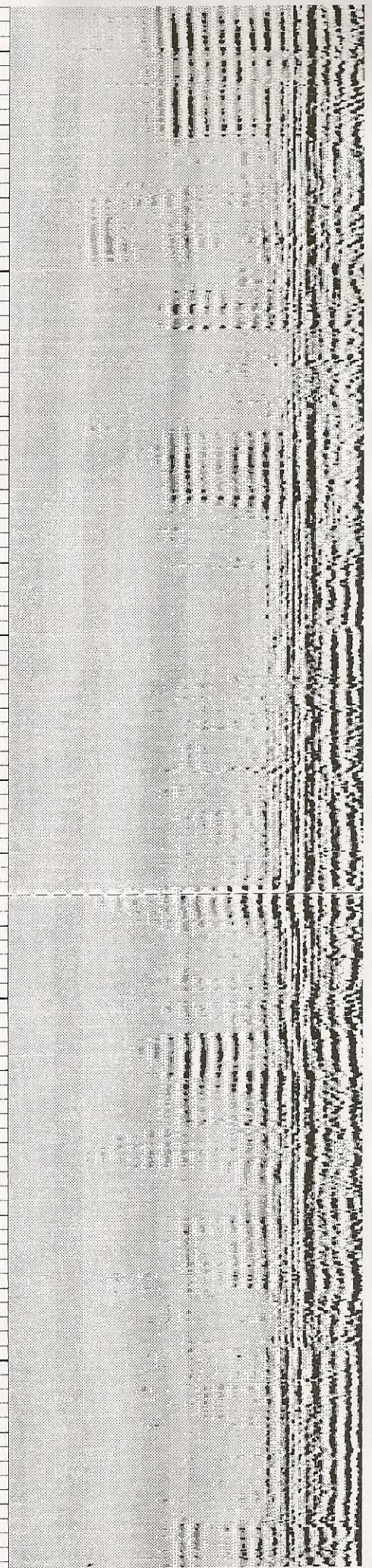
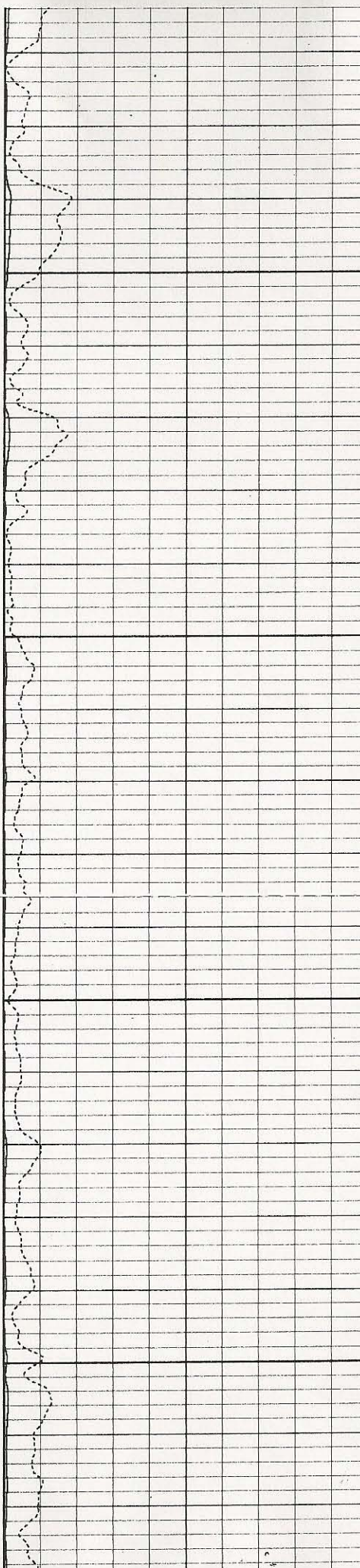


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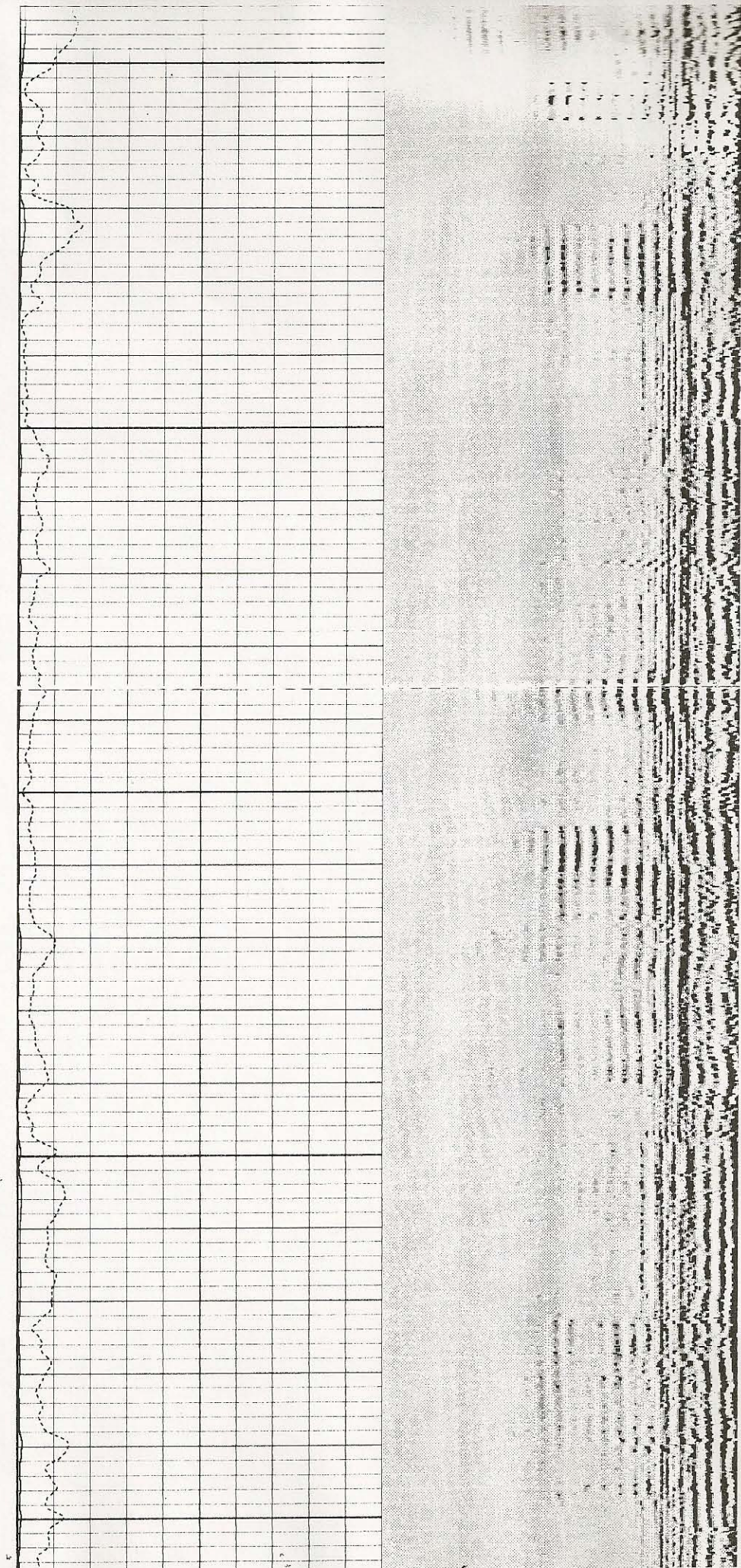


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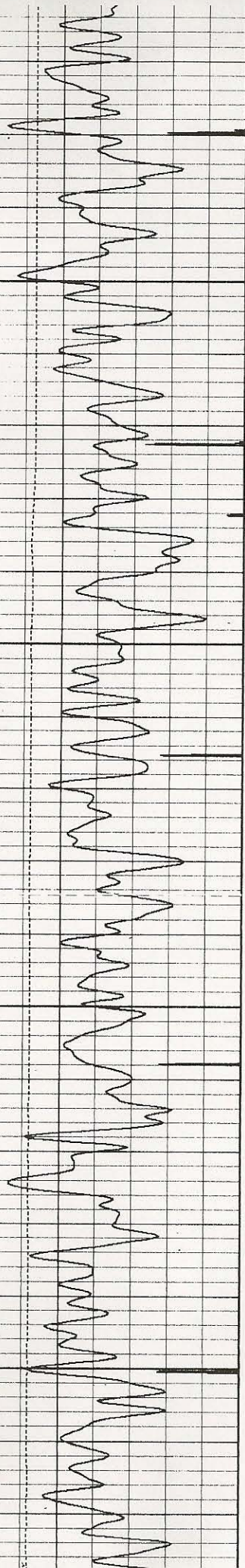
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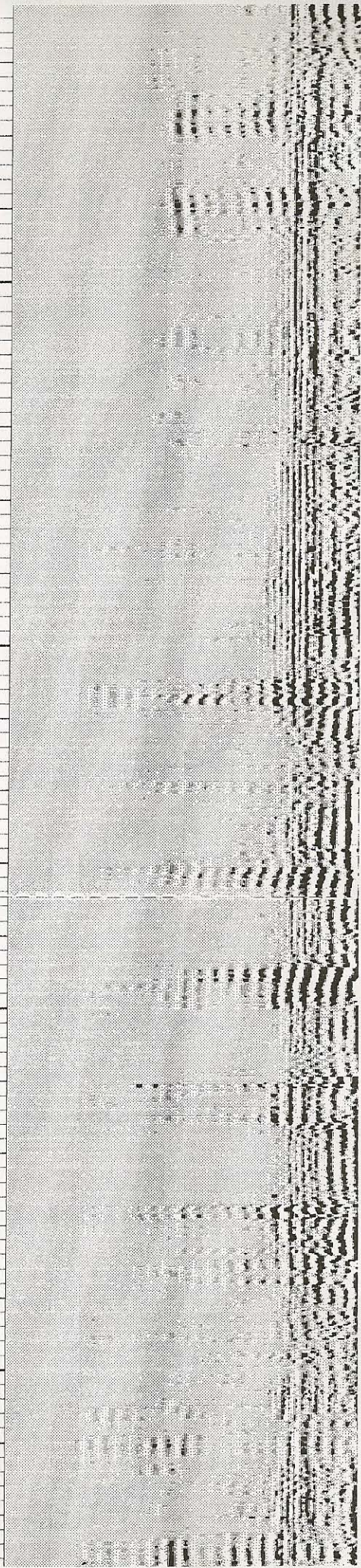
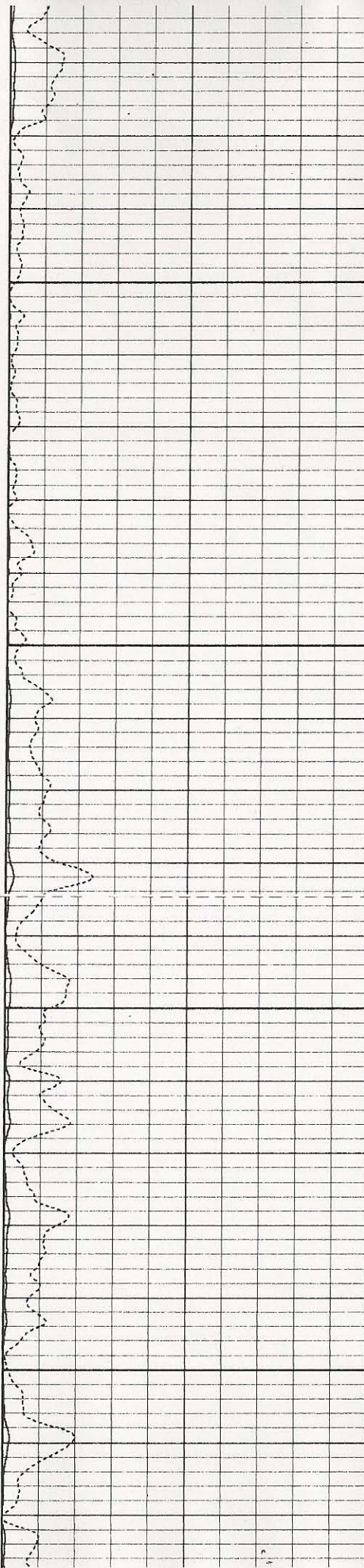


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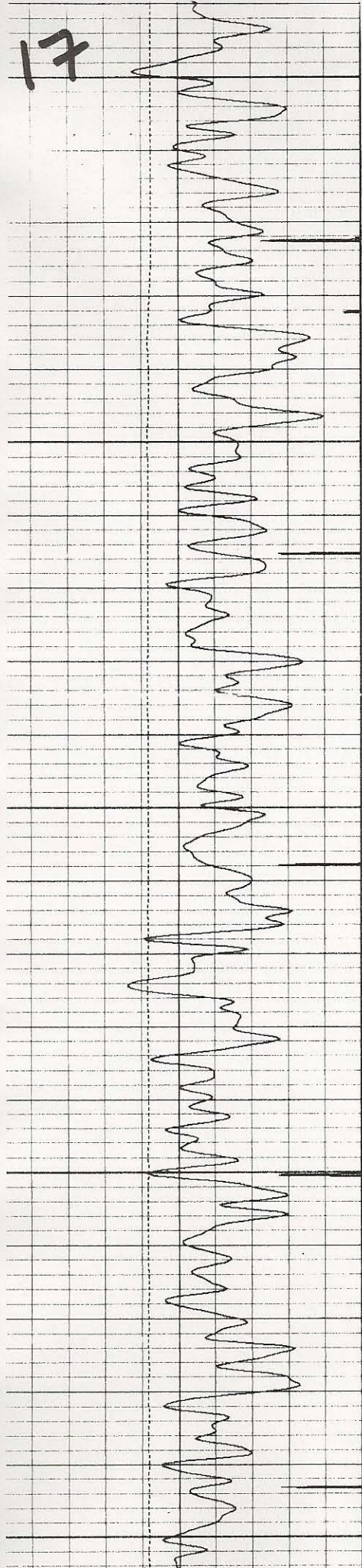


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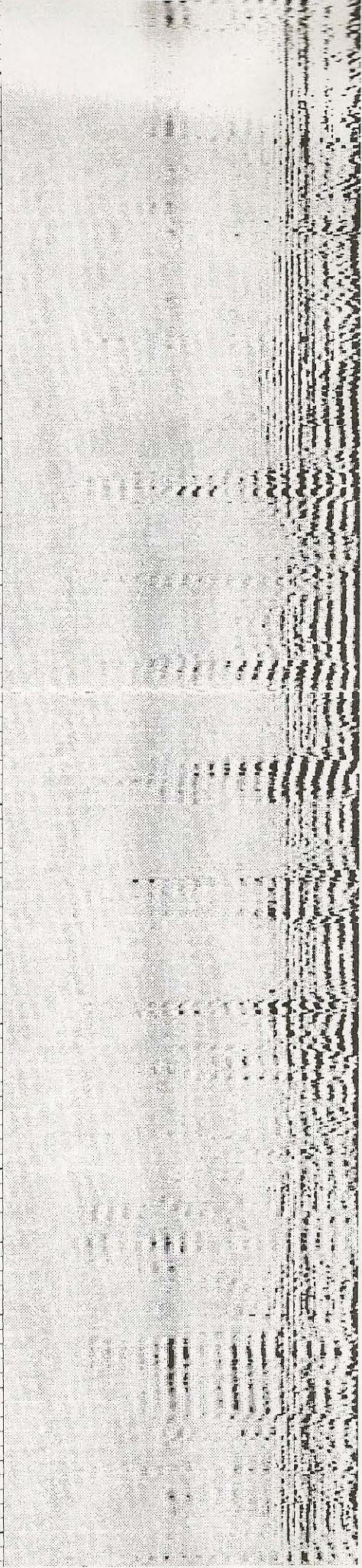
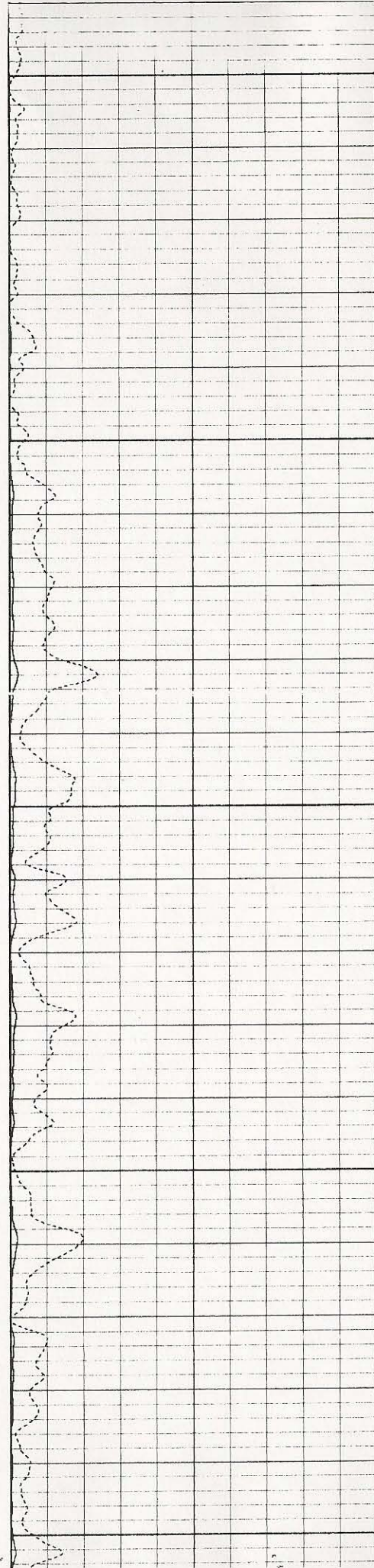


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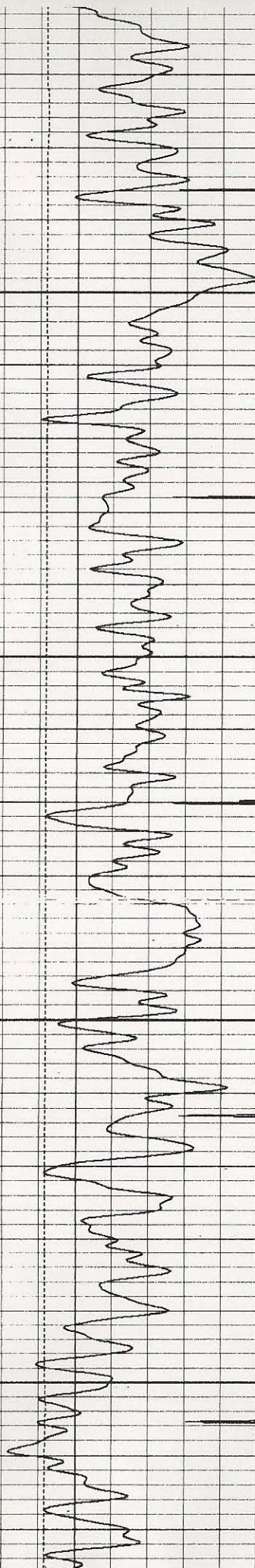


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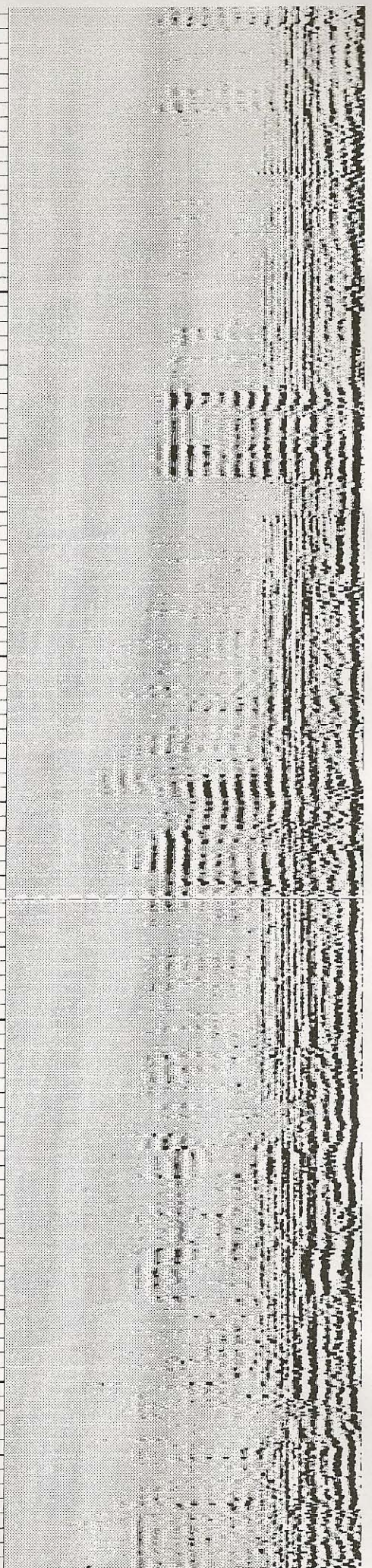
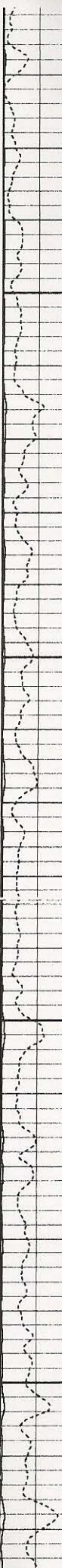


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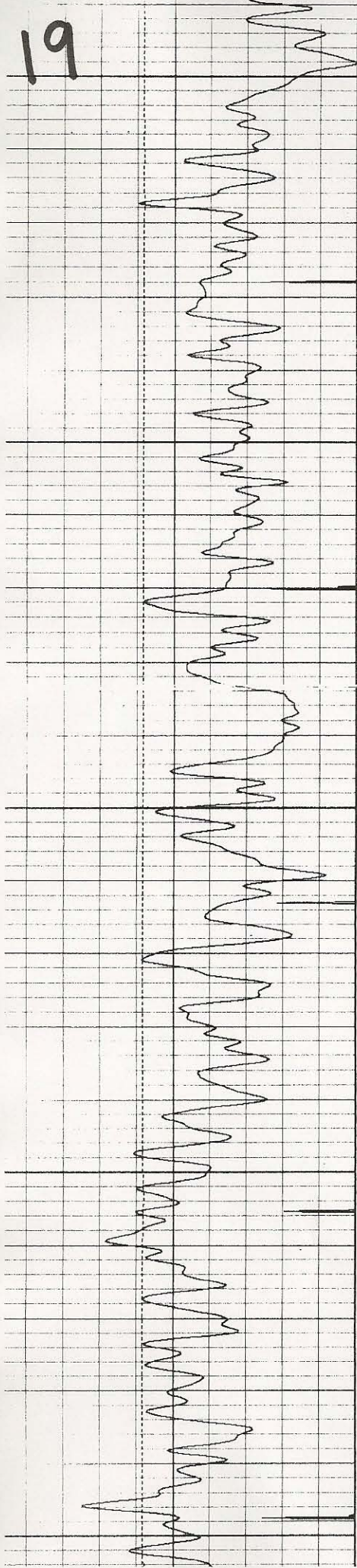


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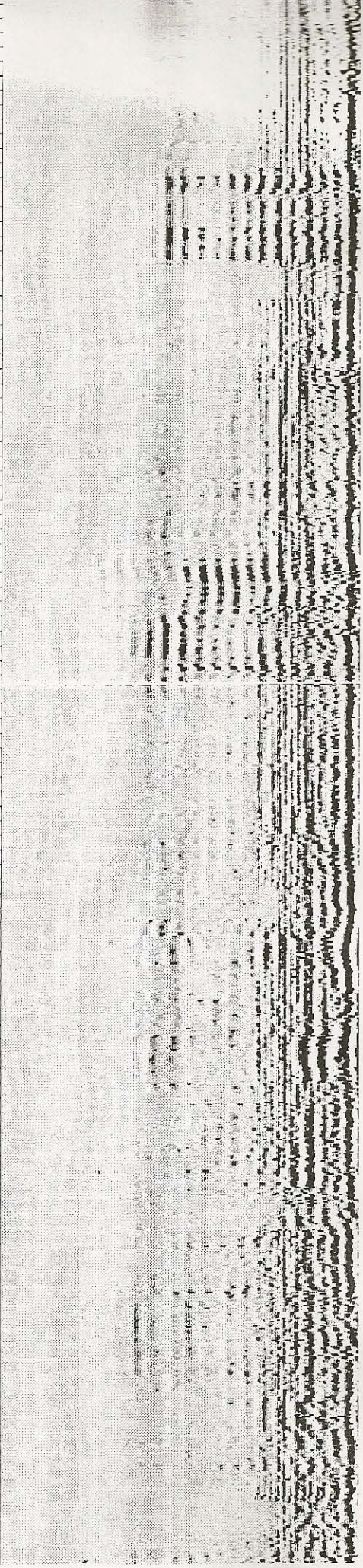
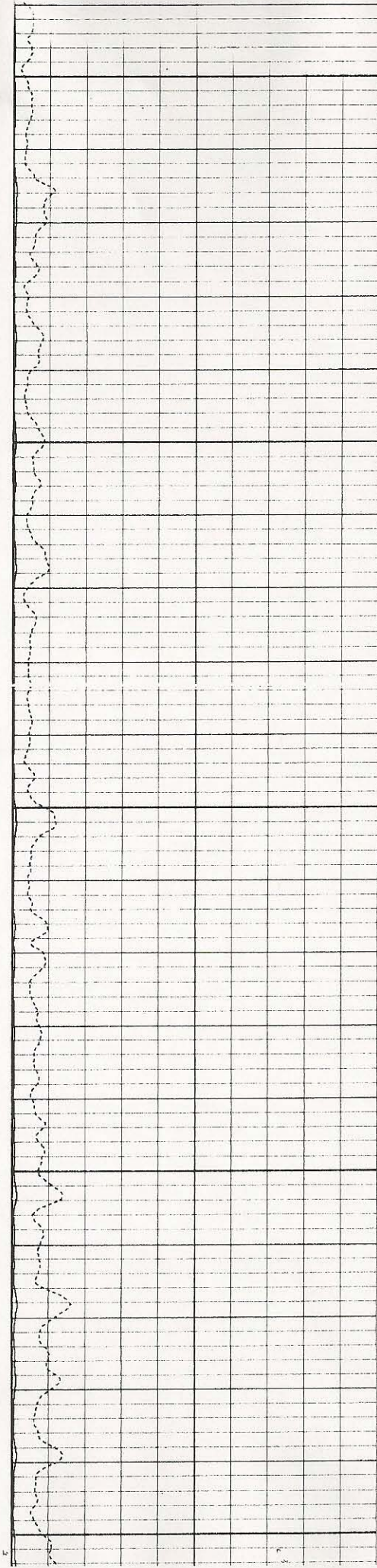
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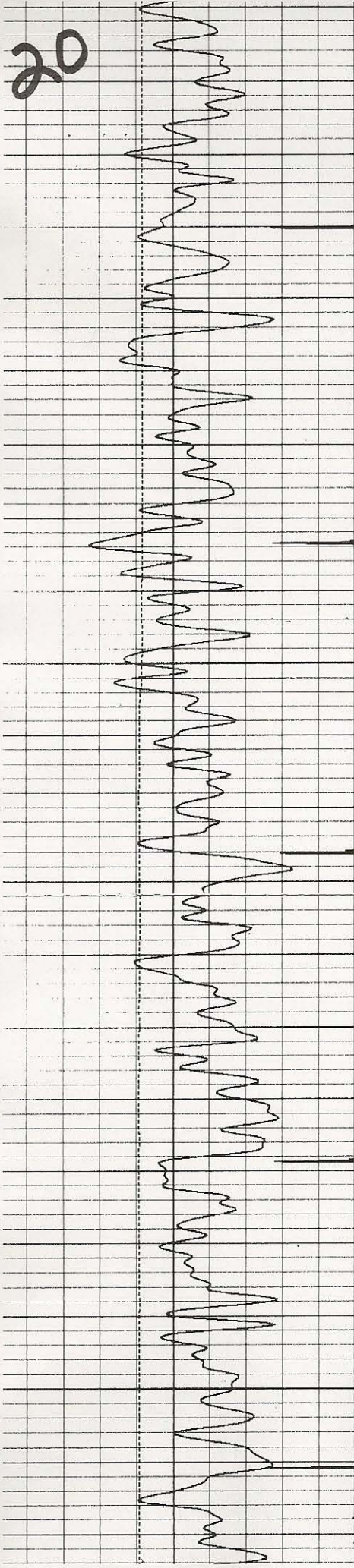


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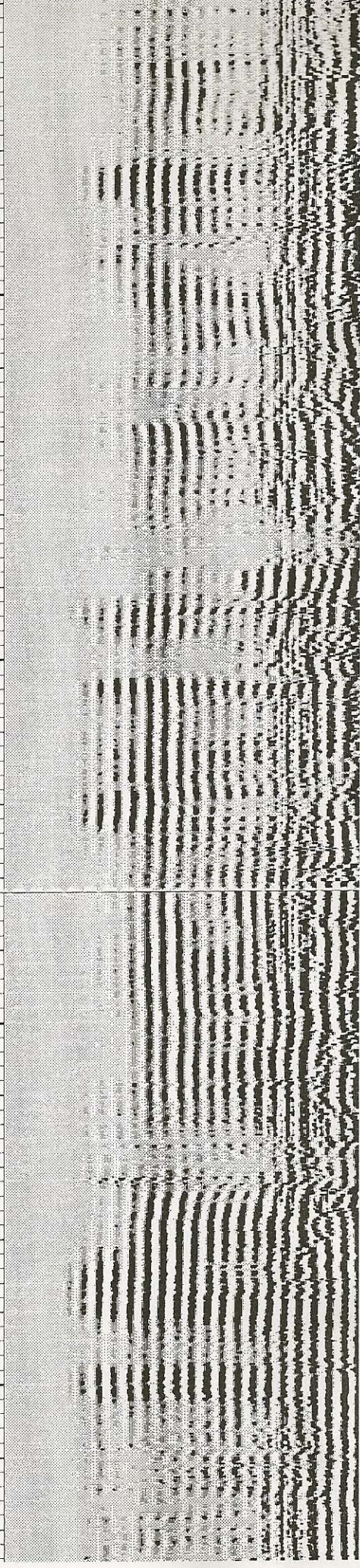
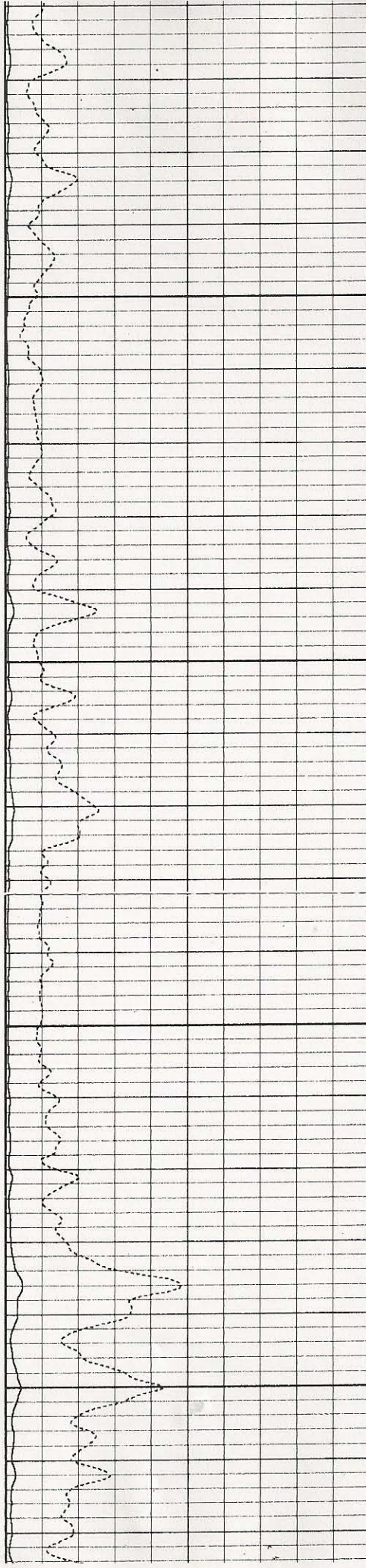
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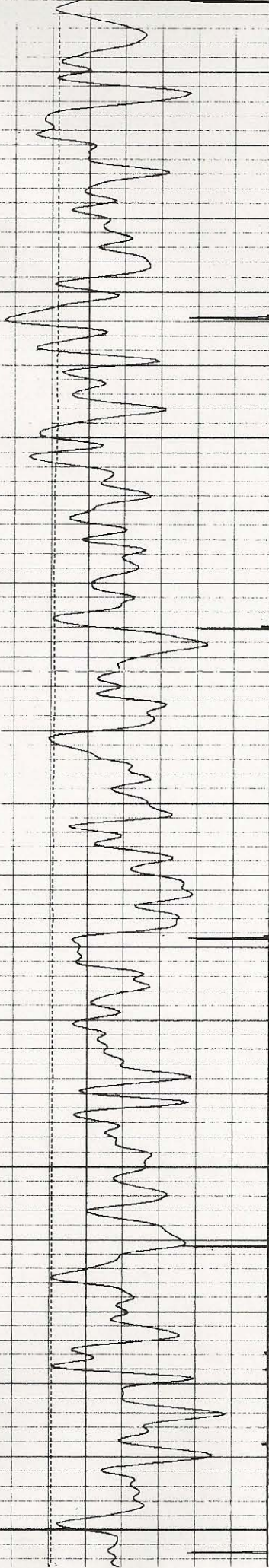


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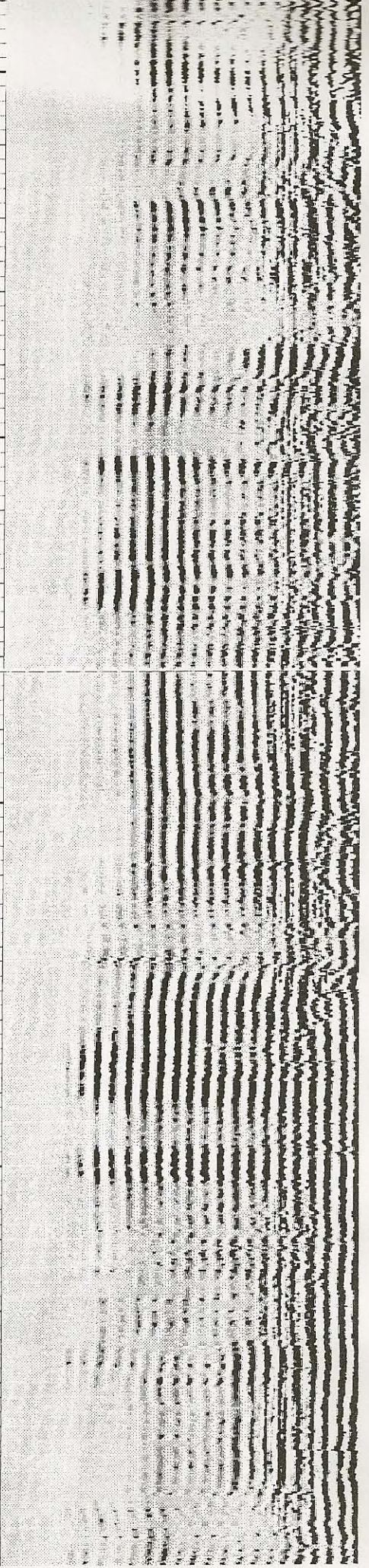
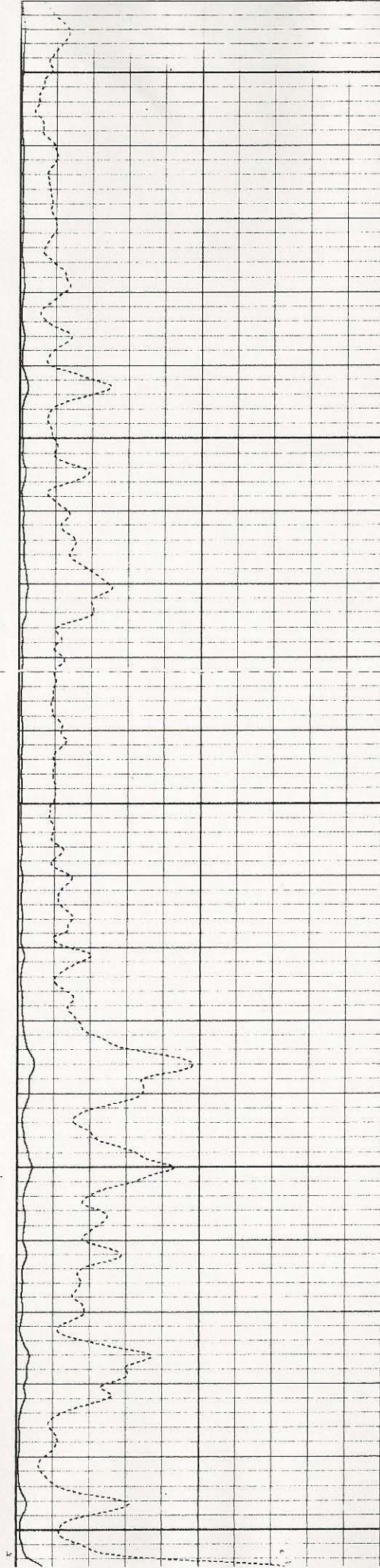


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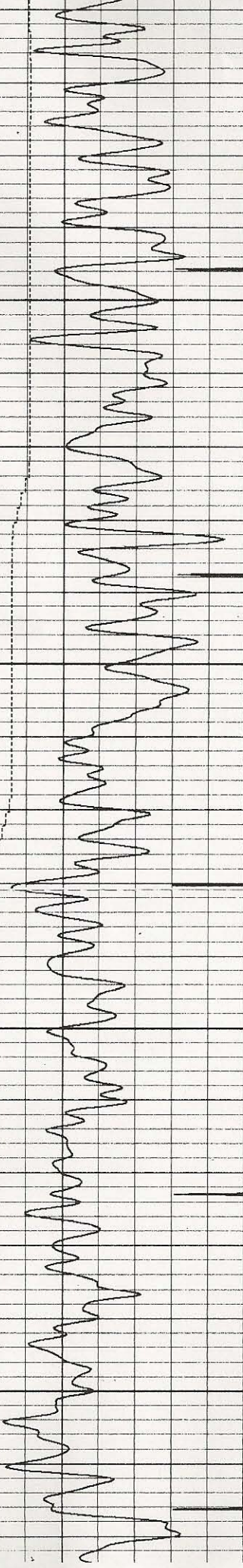


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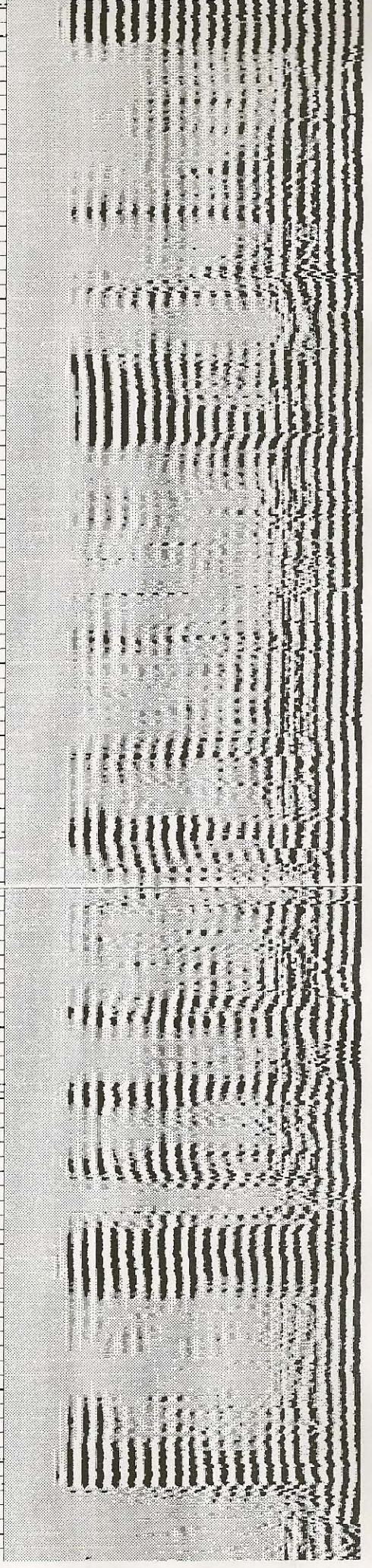
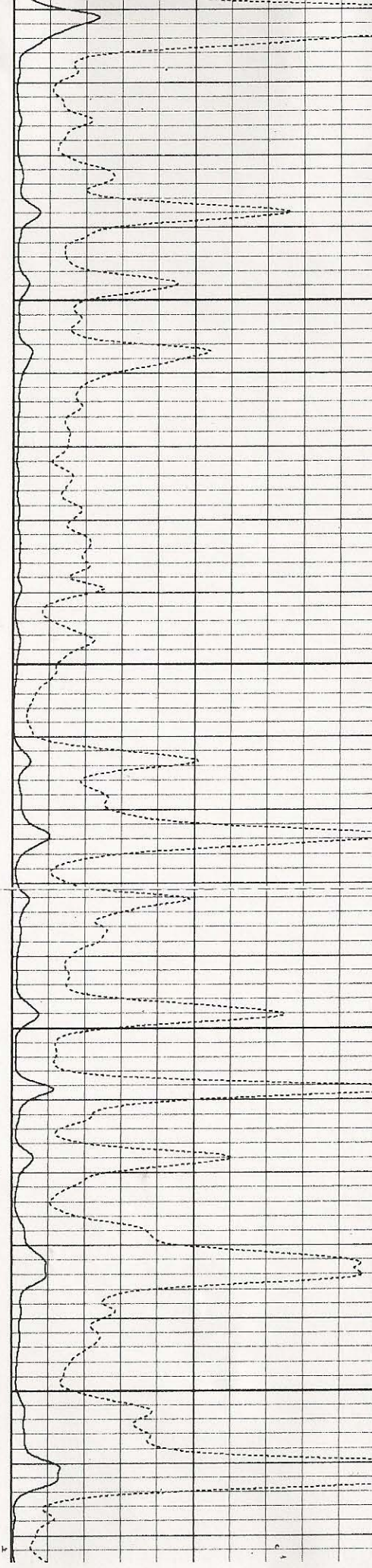


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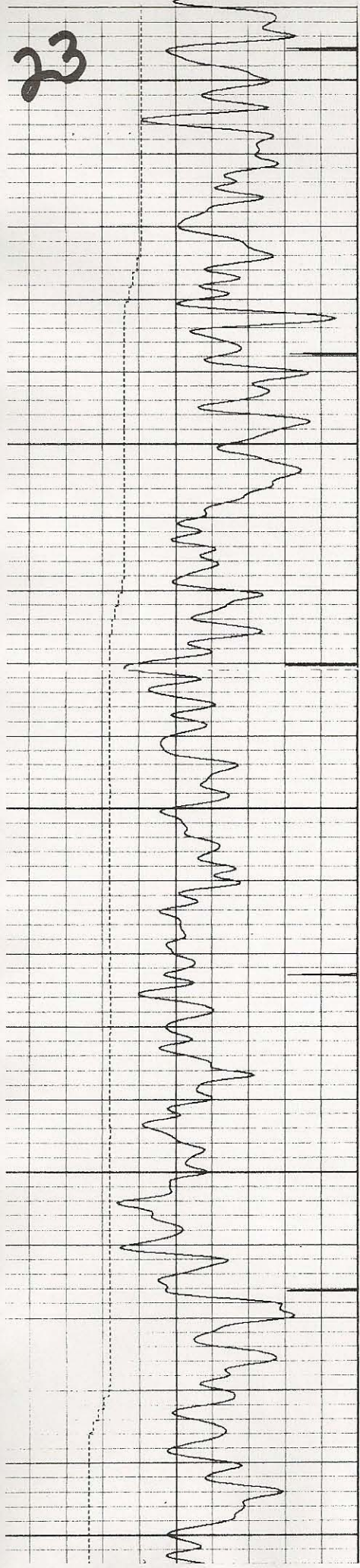


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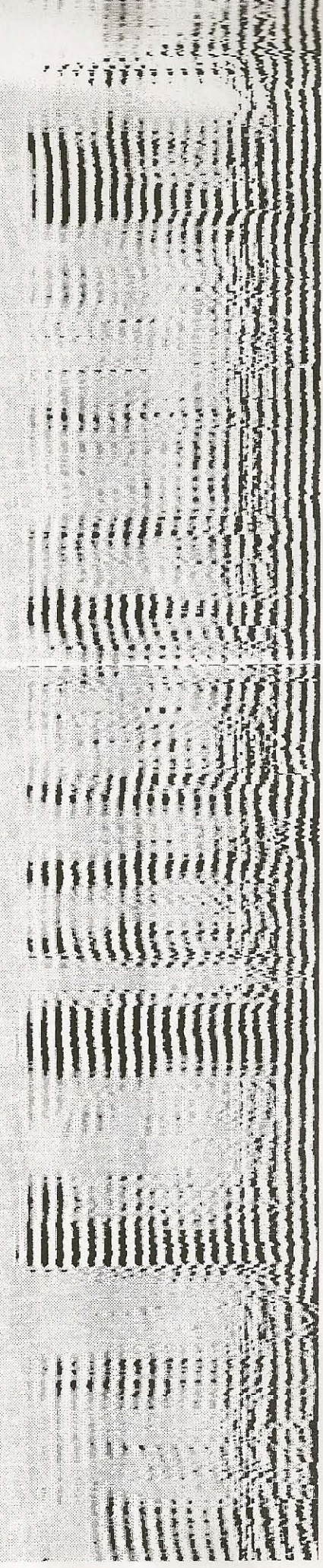
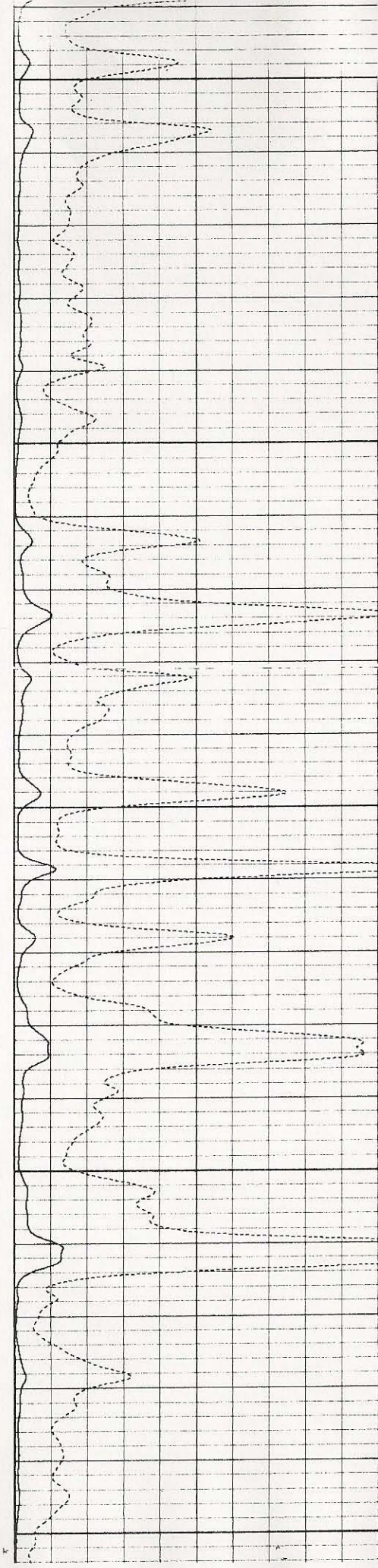
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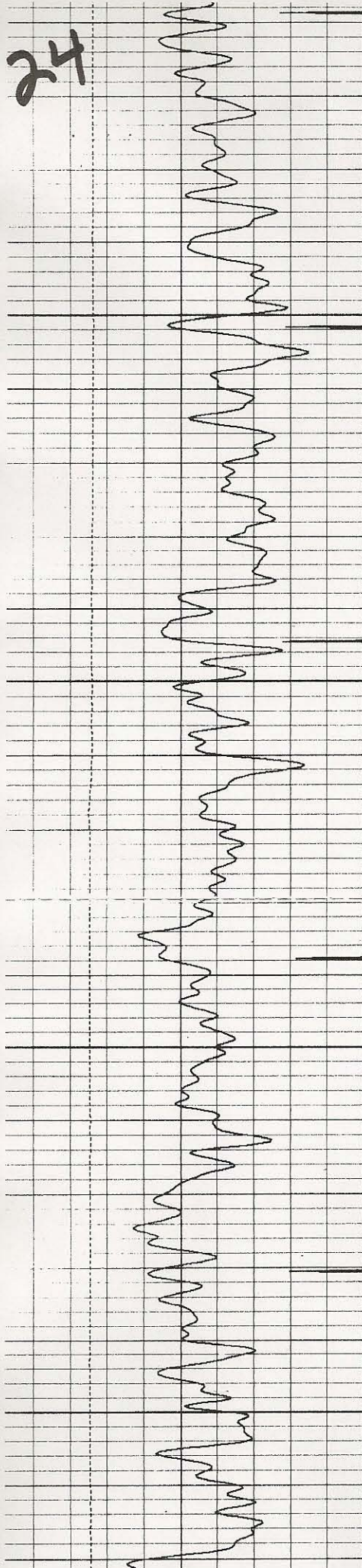
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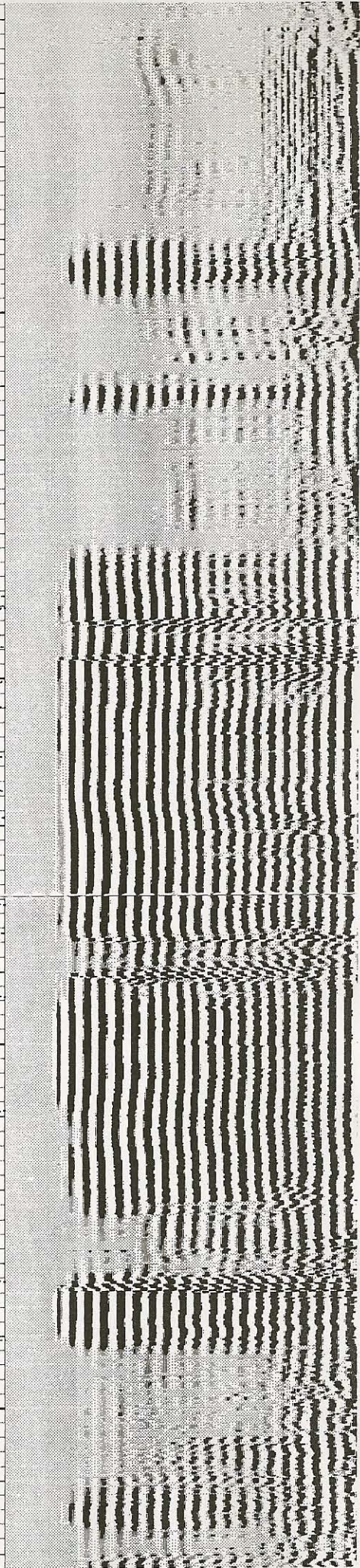
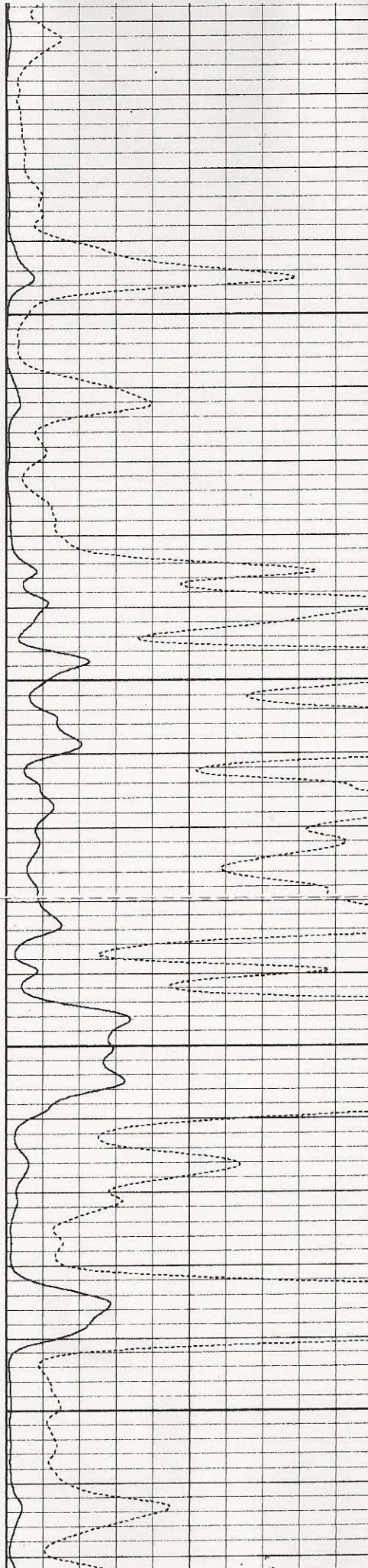


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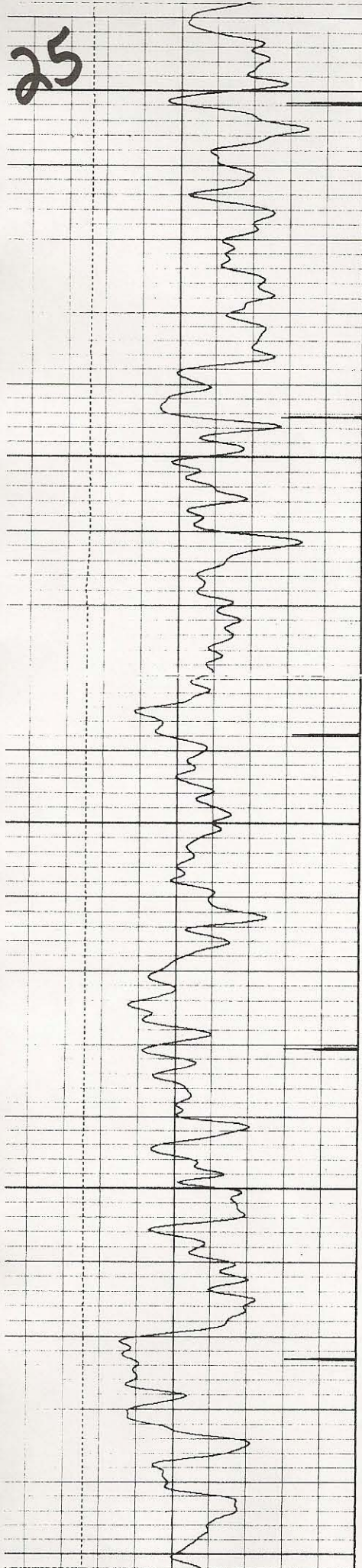


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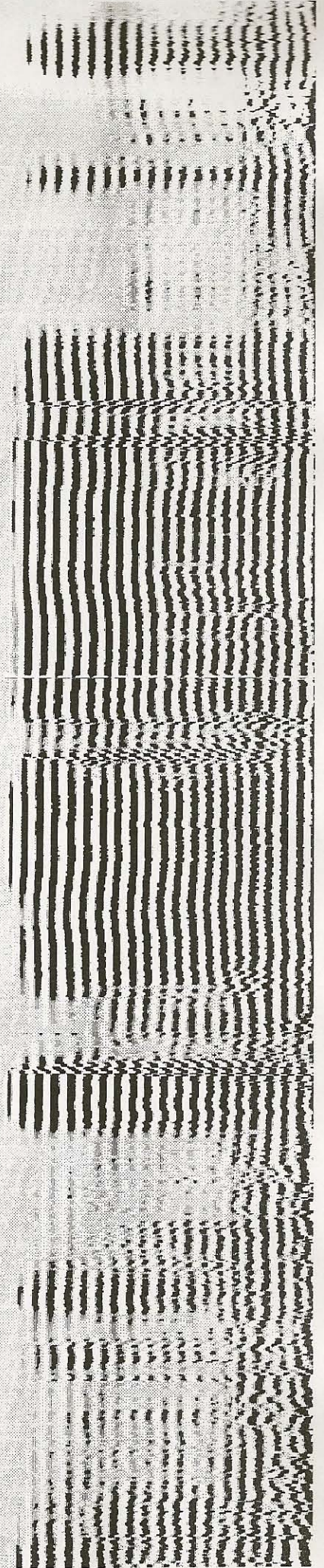
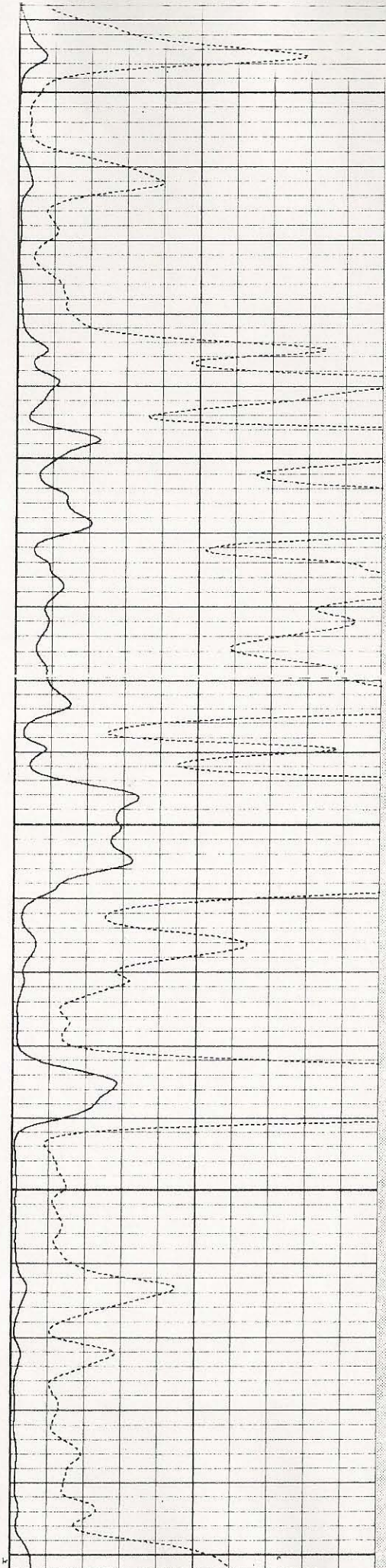


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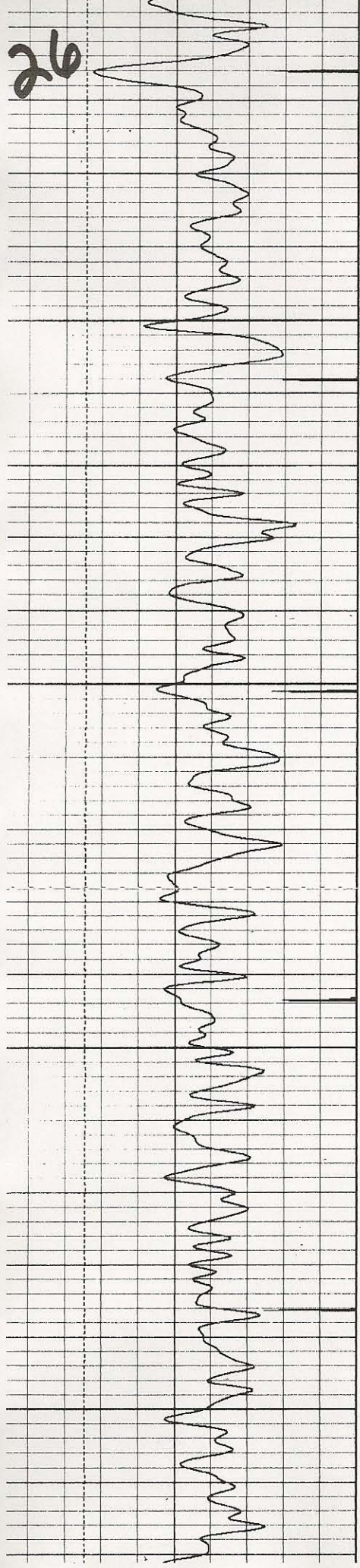


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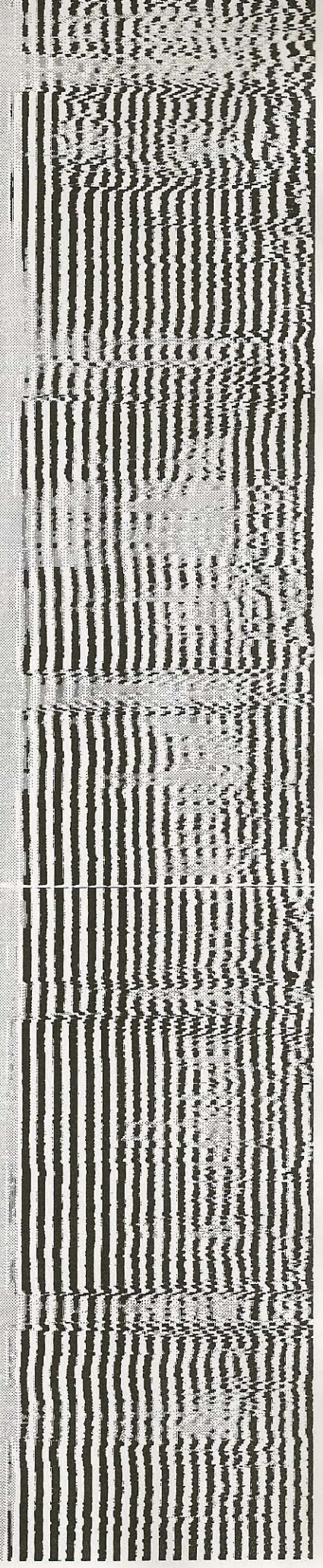
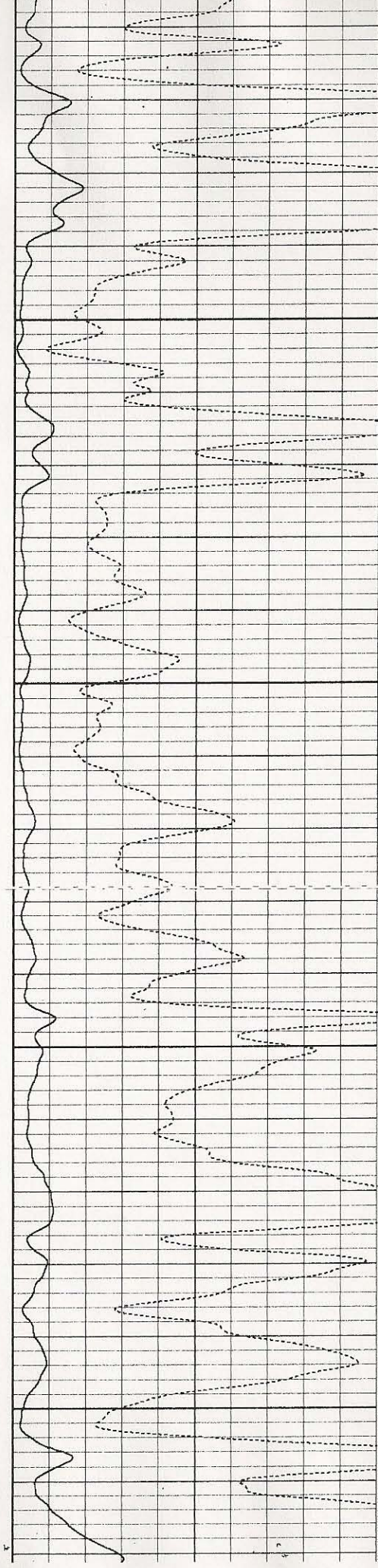


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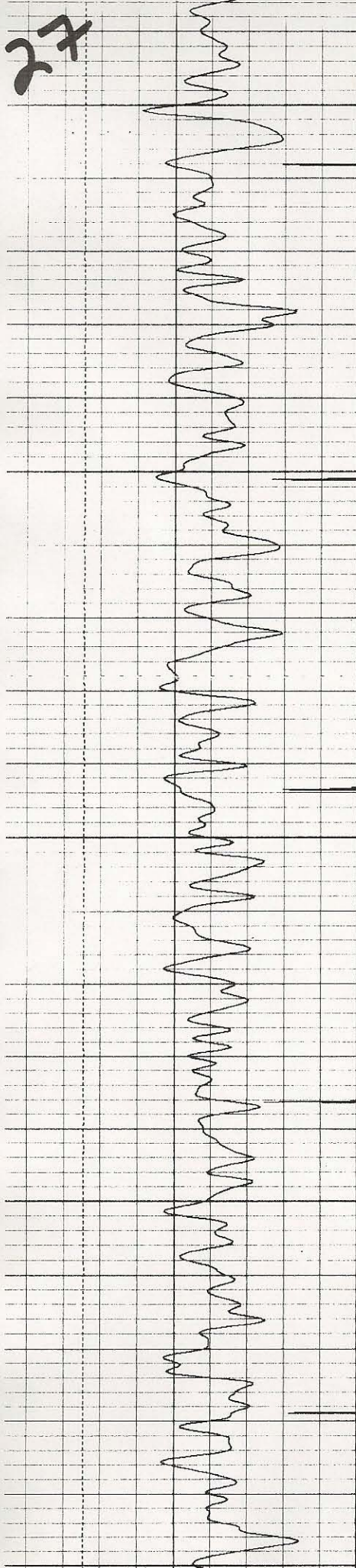


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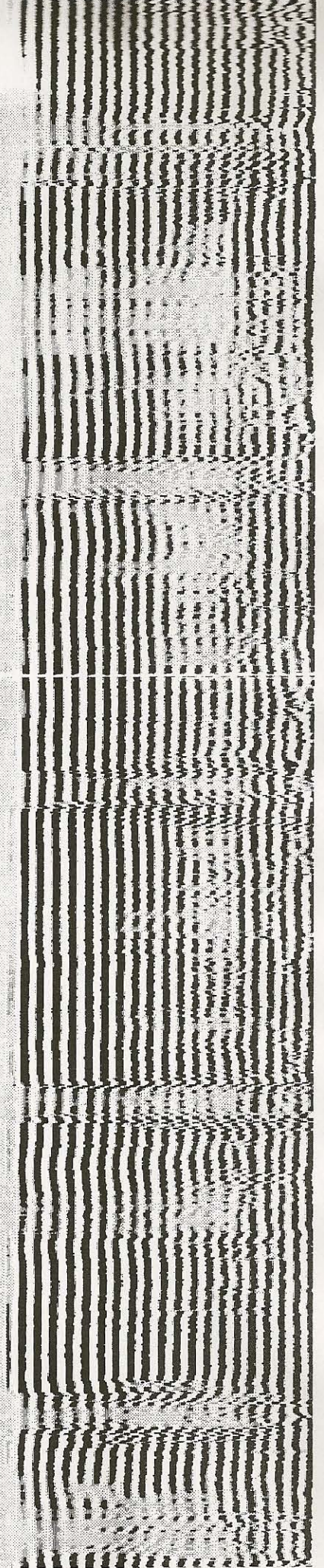
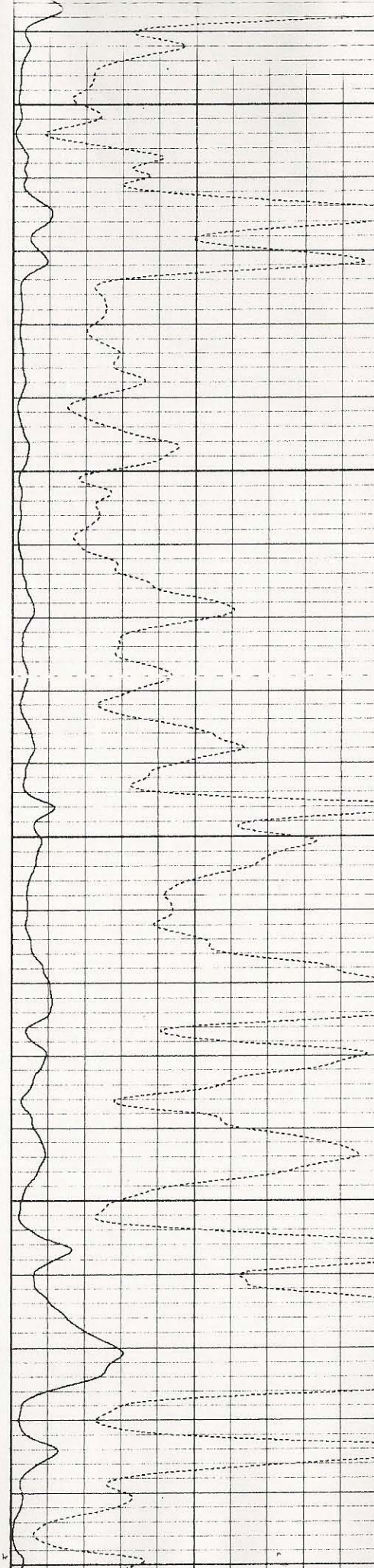
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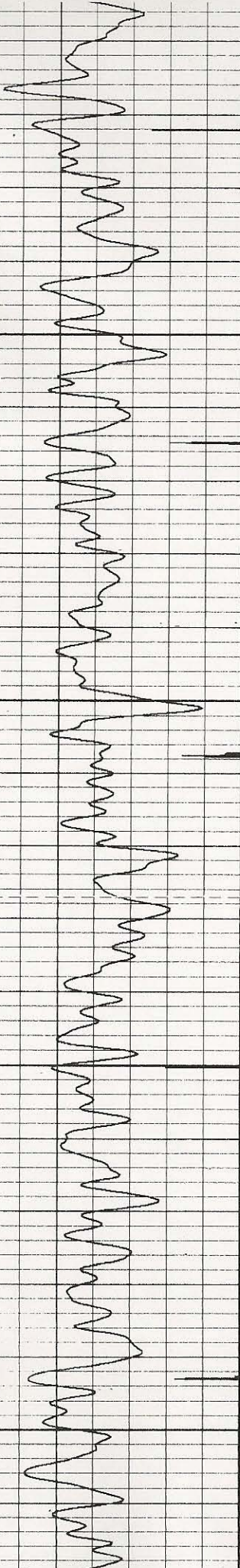
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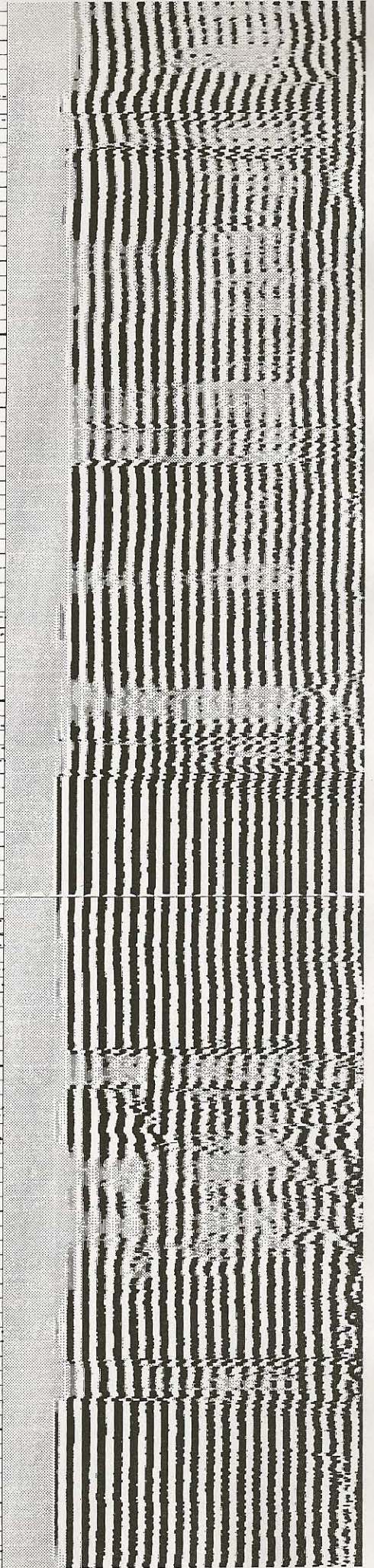
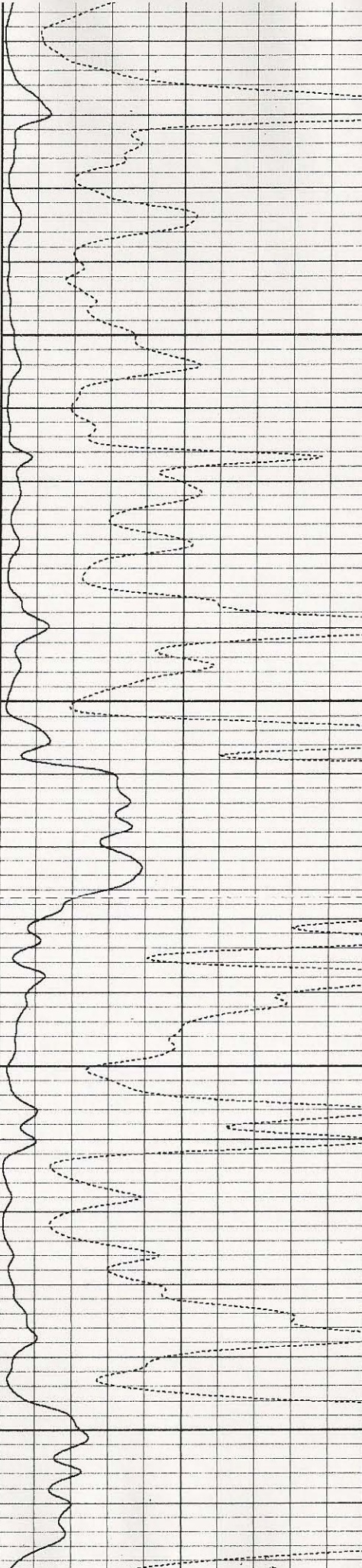


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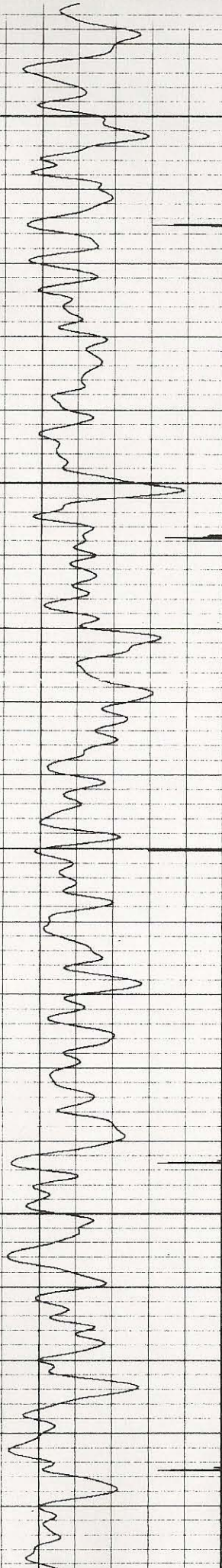


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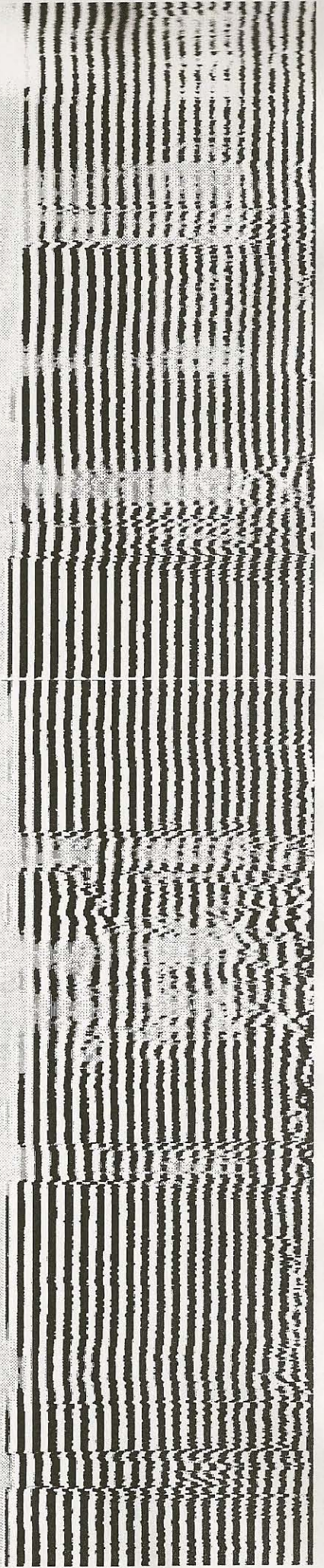
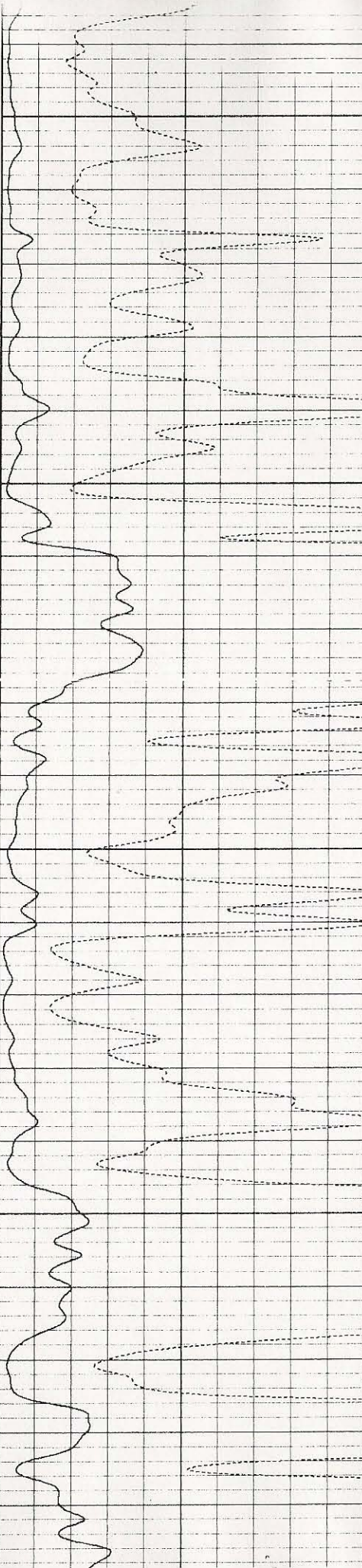


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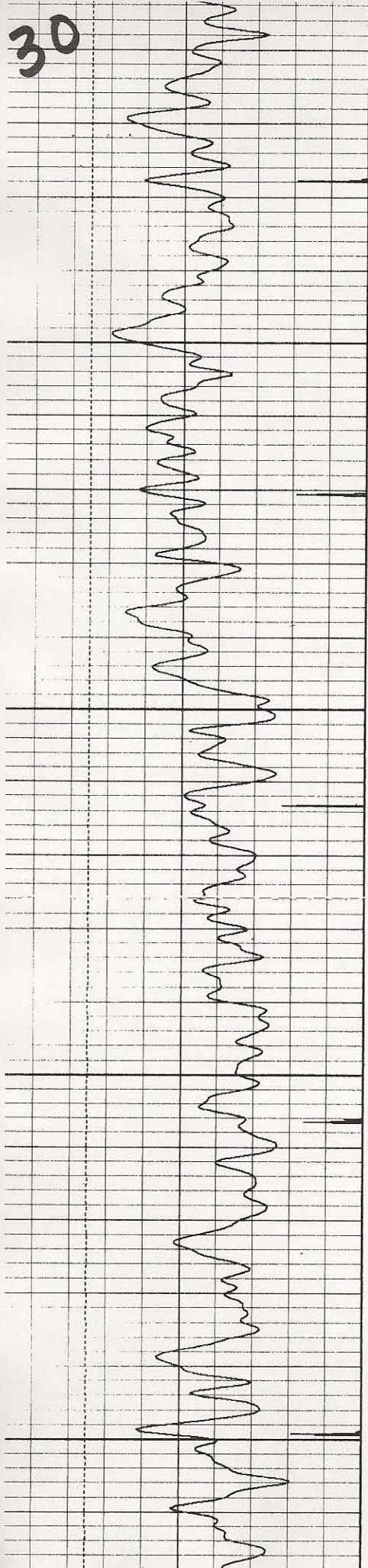


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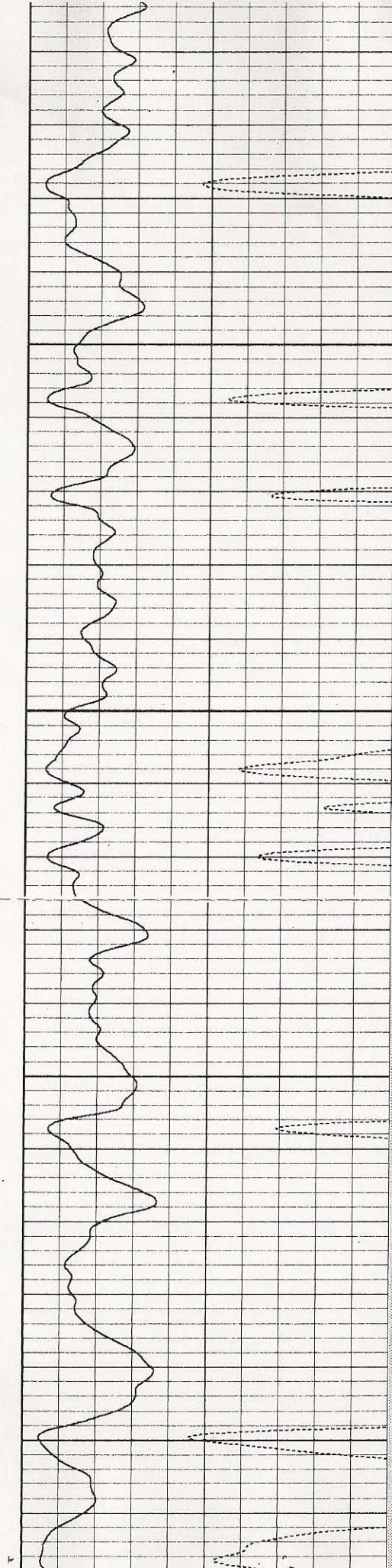
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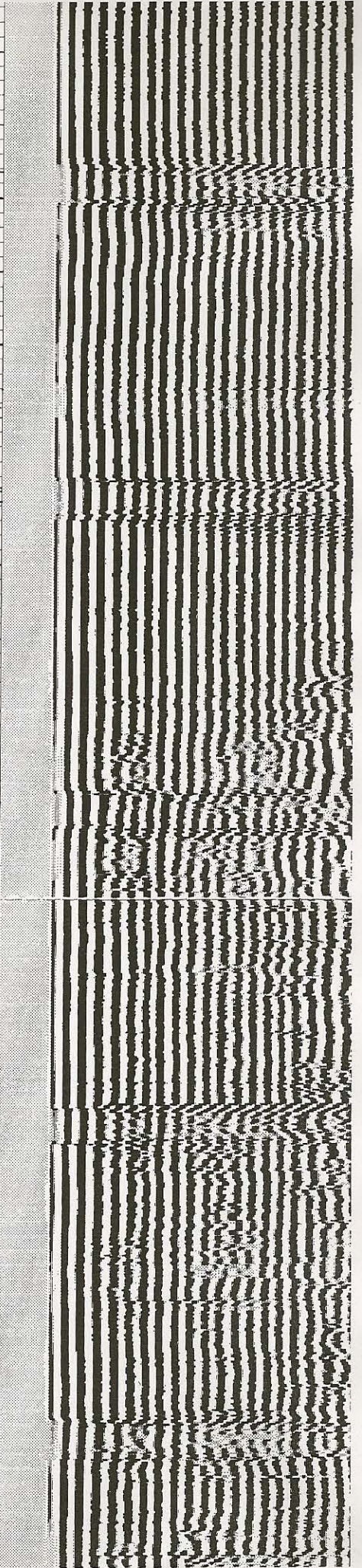
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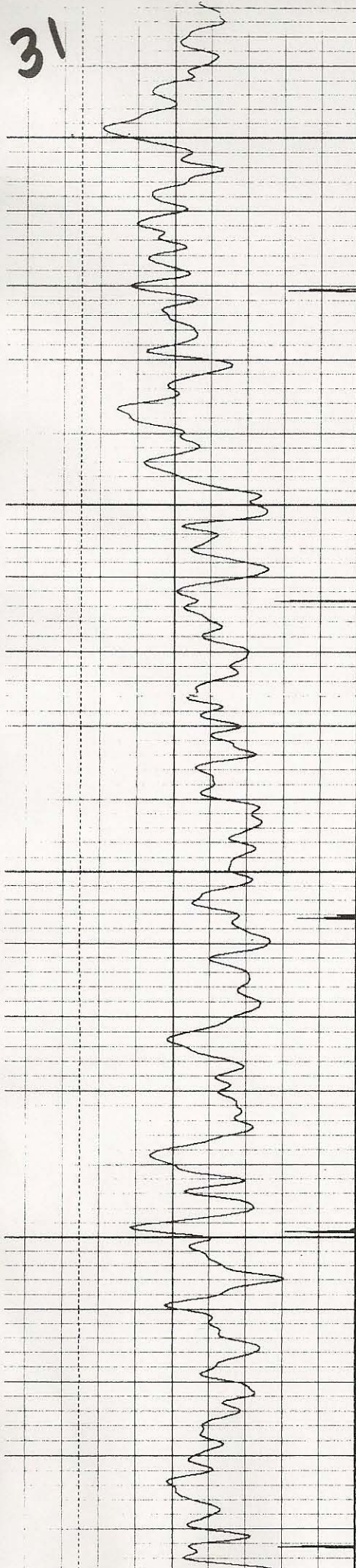
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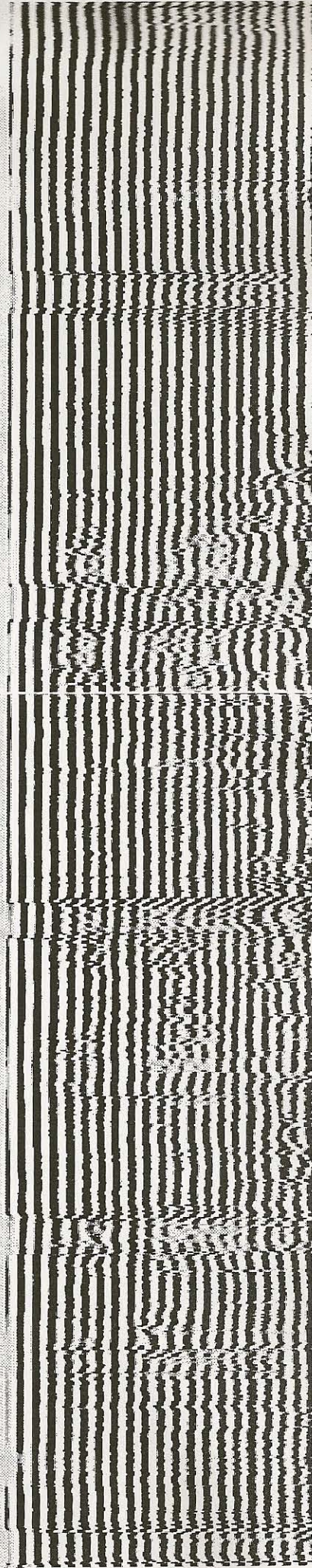
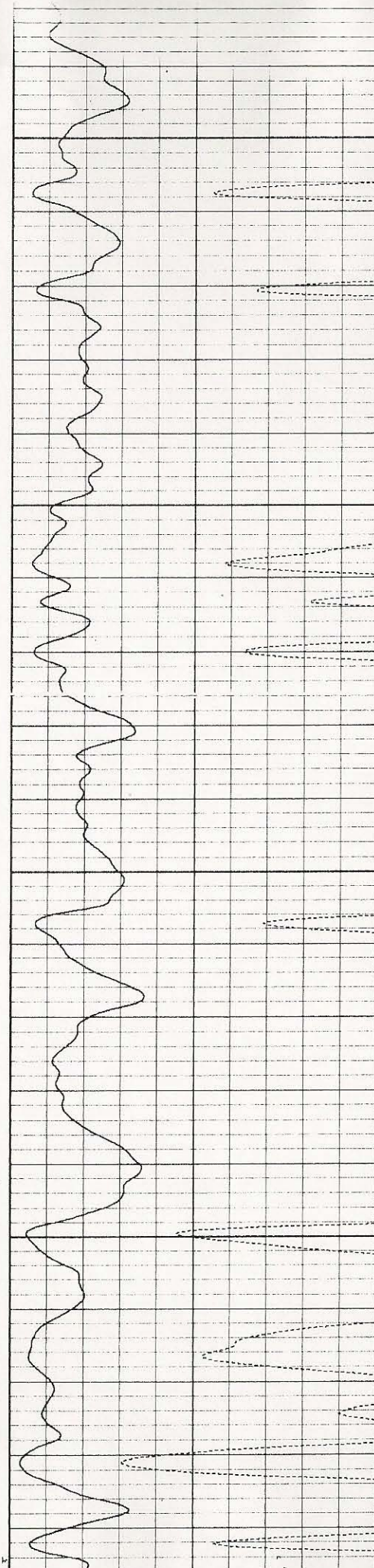


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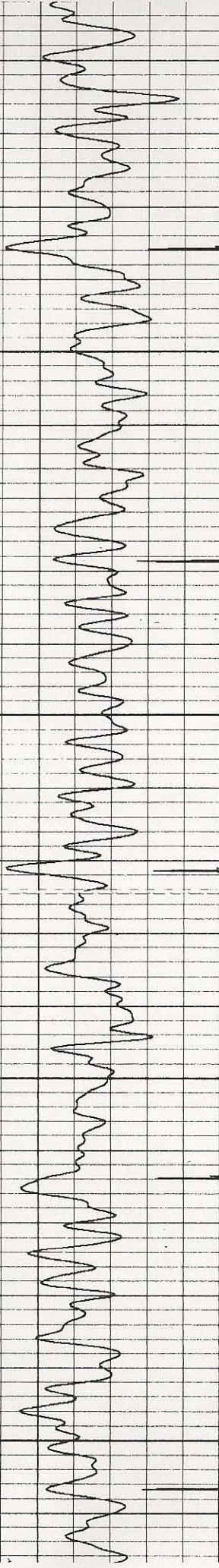


4900

5000

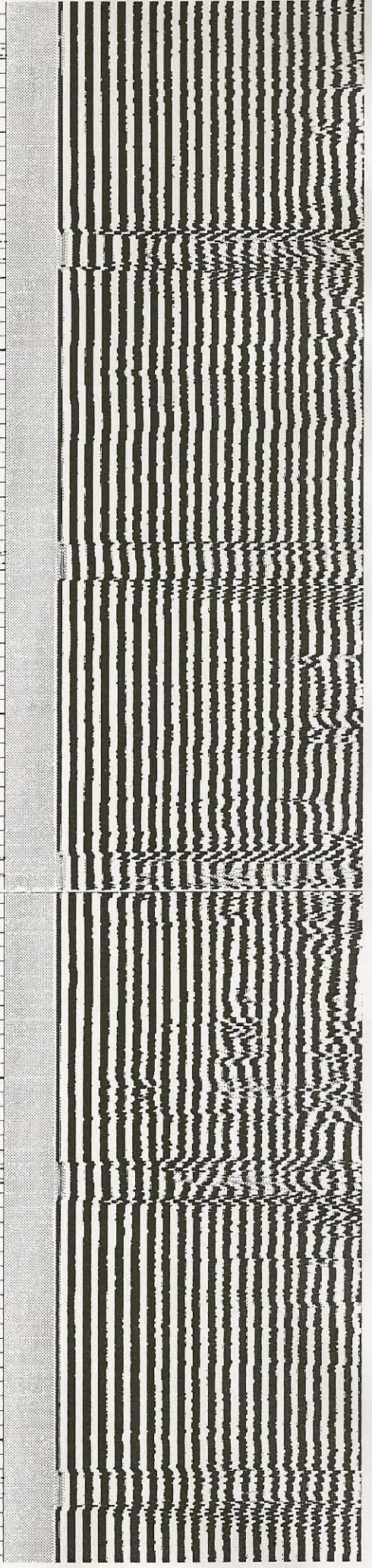
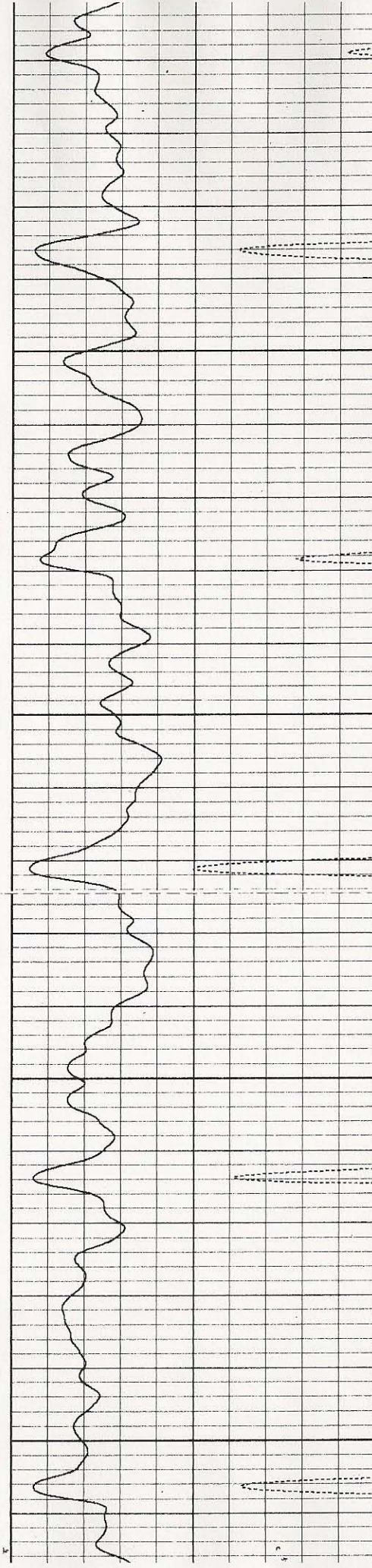


32

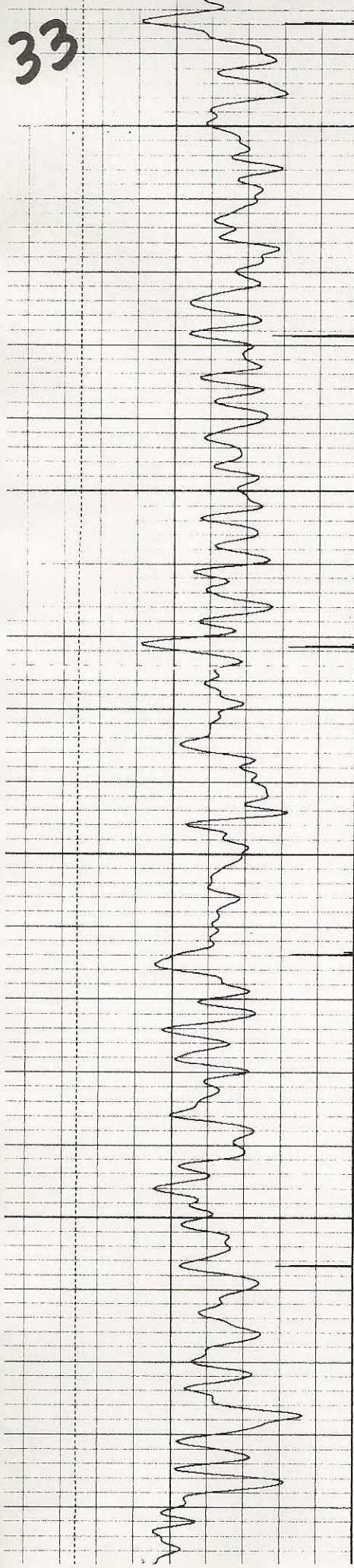


5200

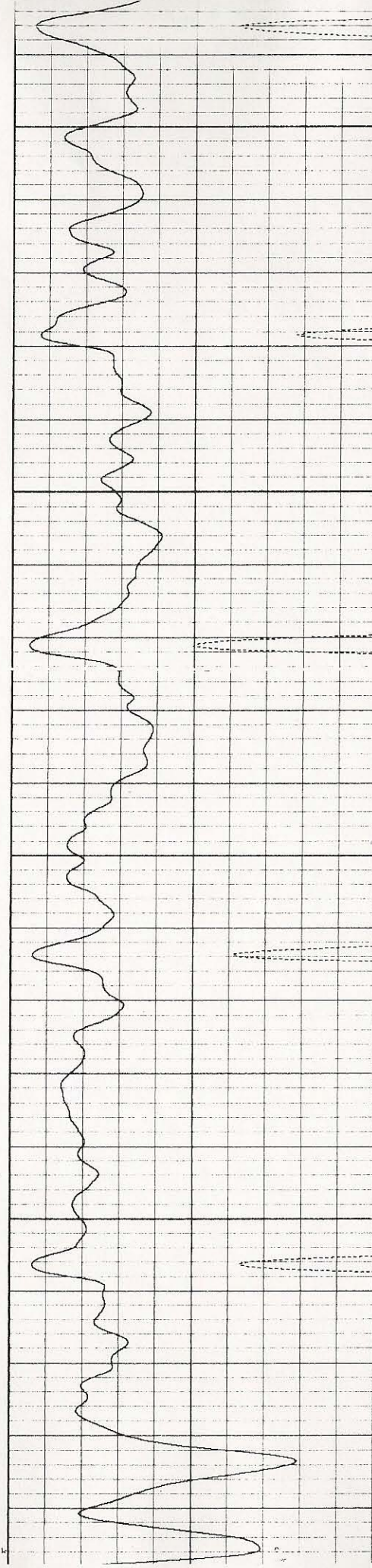
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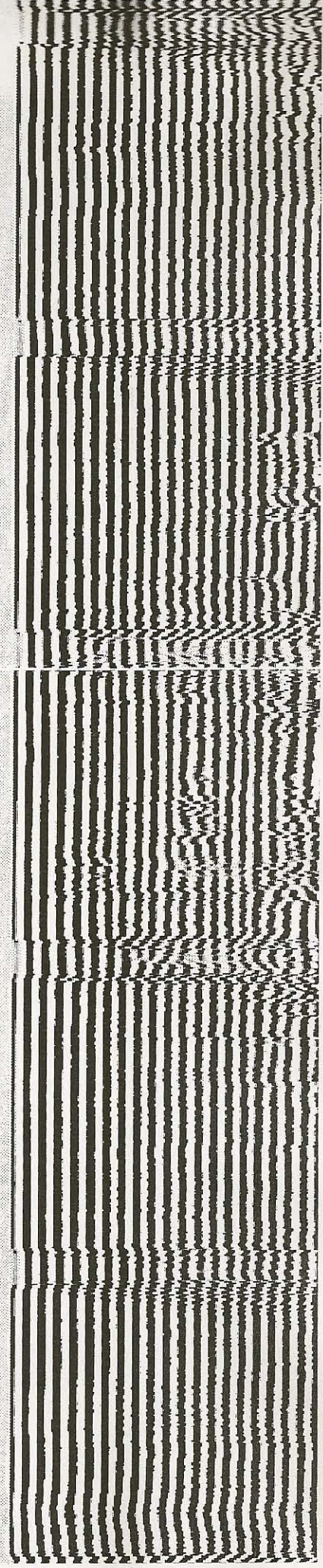
33



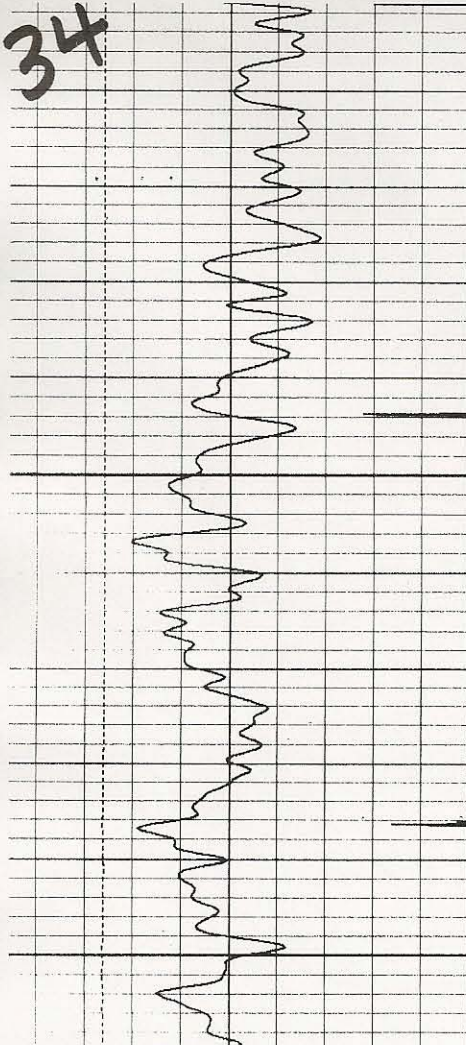
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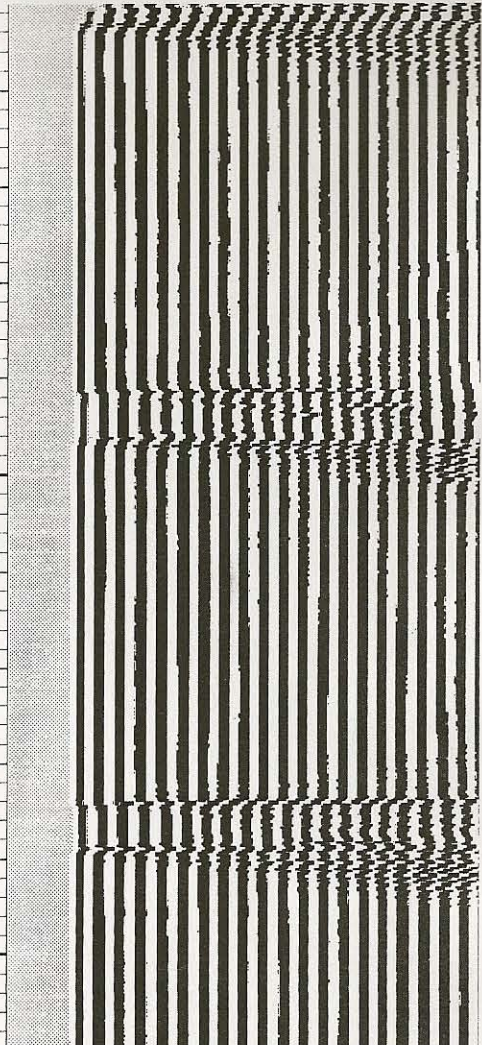
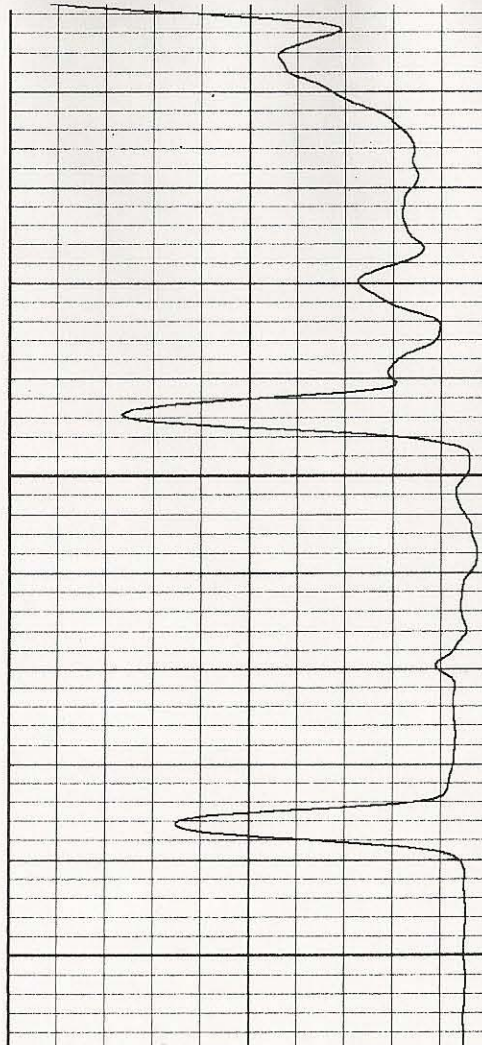
5300



34



5400



CCL	0.5
Gamma Ray (GAPI)	130
Line Speed (ft/min)	-300

0	Amplitude (Pipe Bond) (mV)	100
0	Amplified Amplitude (mV)	10

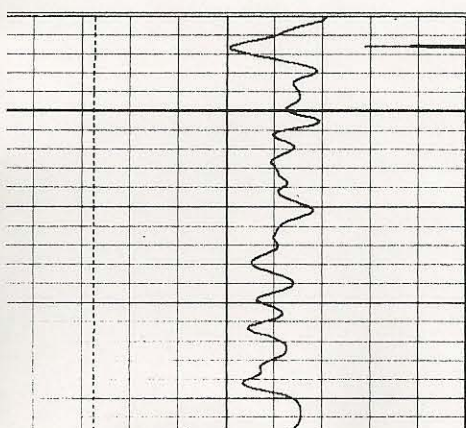
200	VDL	1200
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Database File: cblsatercc199.db
 Dataset Pathname: pass2
 Presentation Format: bond
 Dataset Creation: Mon Oct 16 07:50:59 2006 by Log Warrior 7.0 Standar
 Charted by: Depth in Feet scaled 1:240

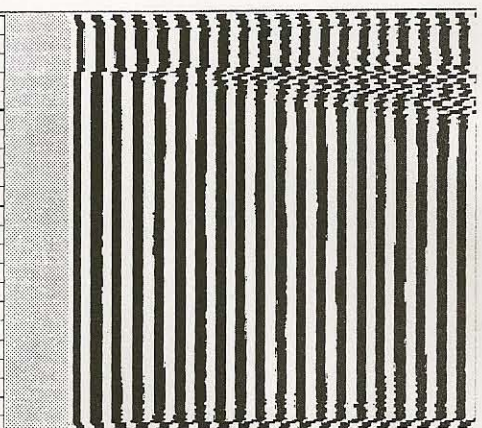
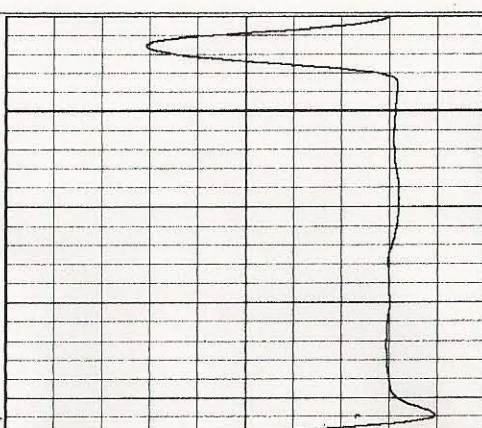
CCL	0.5
Gamma Ray (GAPI)	150
Line Speed (ft/min)	-300

0	Amplitude (Pipe Bond) (mV)	100
0	Amplified Amplitude (mV)	10

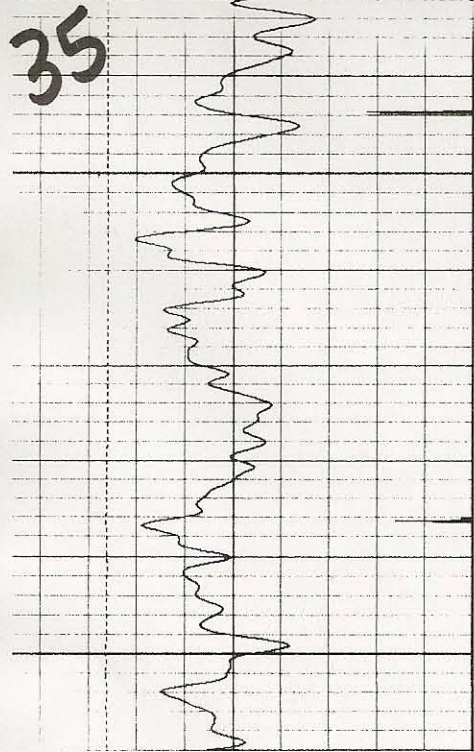
200	VDL	1200
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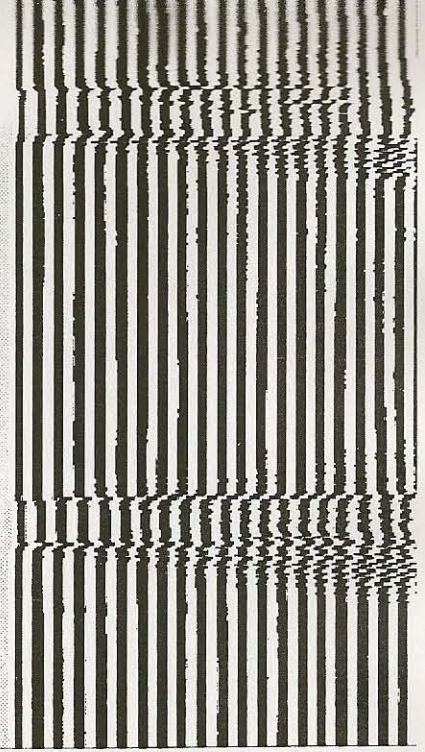
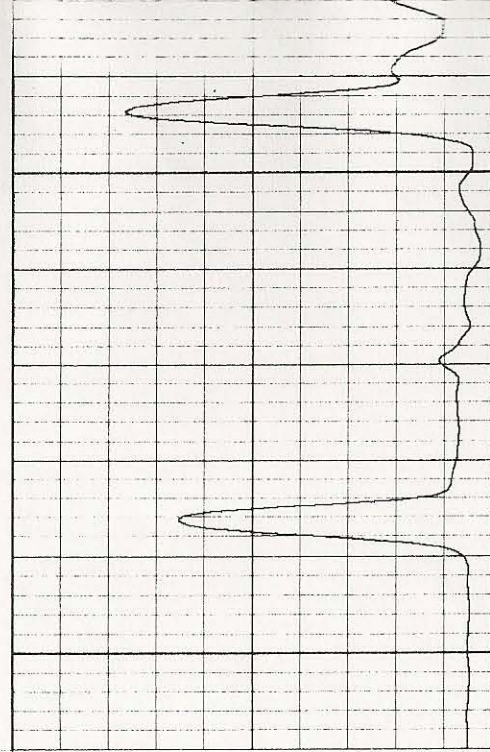
5700



35



5400



CCL	0.5
Gamma Ray (GAPI)	130
Line Speed (ft/min)	-300

0	Amplitude (Pipe Bond) (mV)	100
0	Amplified Amplitude (mV)	10

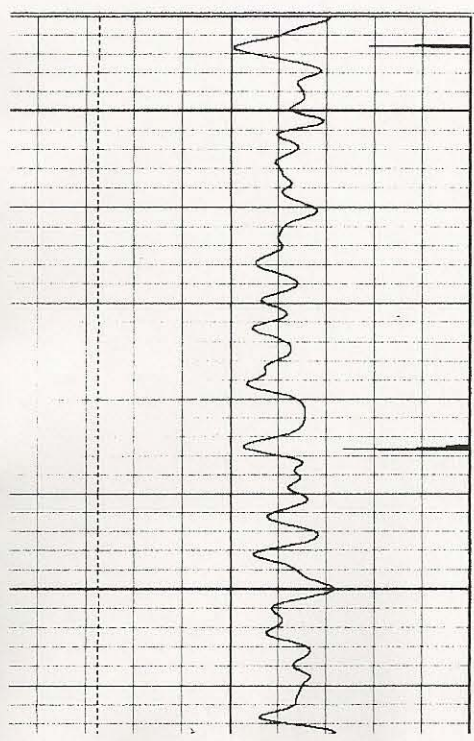
200 VDL 1200

Database File: cblsatercc199.db
Dataset Pathname: pass2
Presentation Format: bond
Dataset Creation: Mon Oct 16 07:50:59 2006 by Log Warrior 7.0 Standar
Charted by: Depth in Feet scaled 1:240

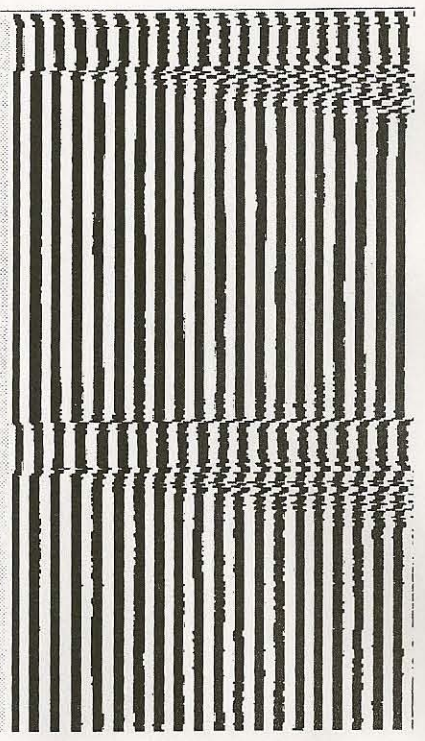
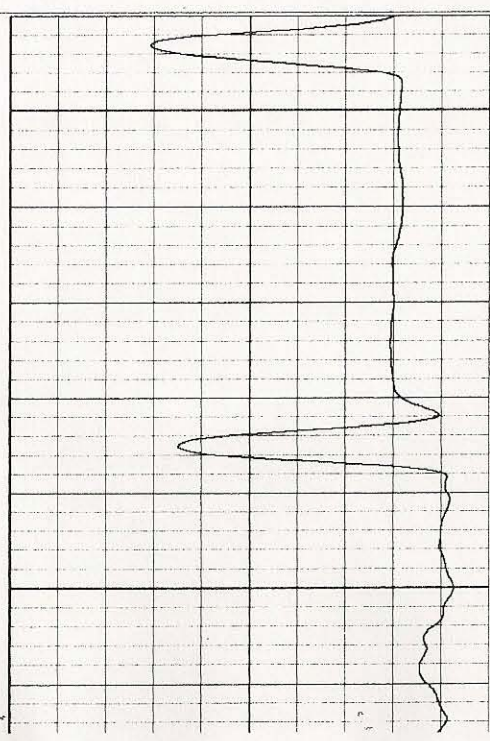
CCL	0.5
Gamma Ray (GAPI)	150
Line Speed (ft/min)	-300

0	Amplitude (Pipe Bond) (mV)	100
0	Amplified Amplitude (mV)	10

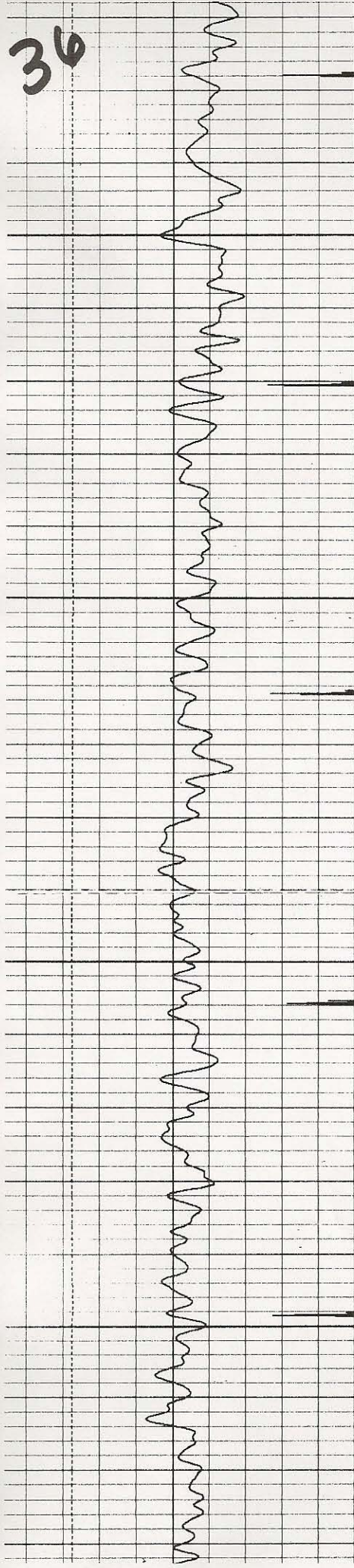
200 VDL 1200



5700

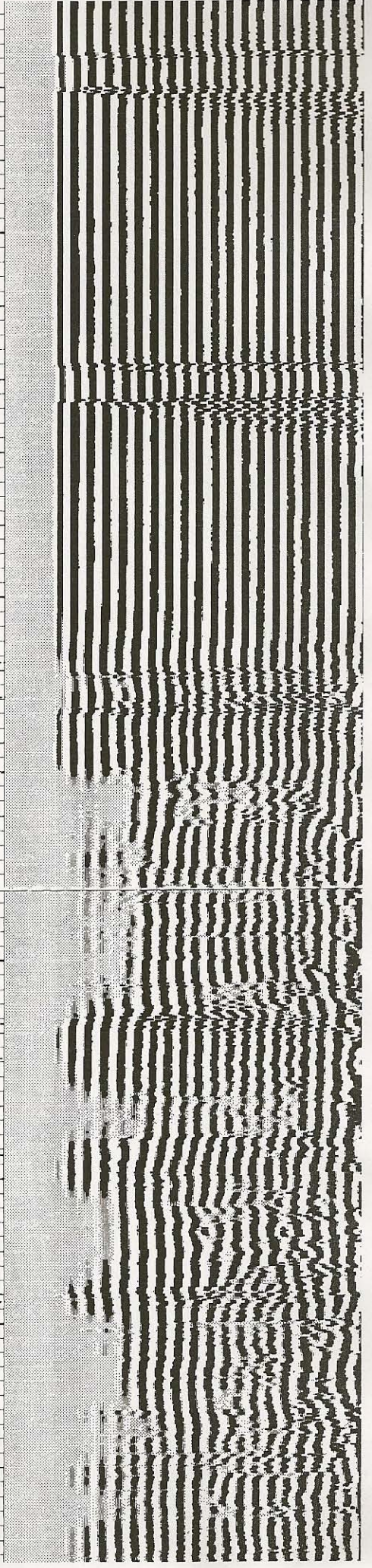
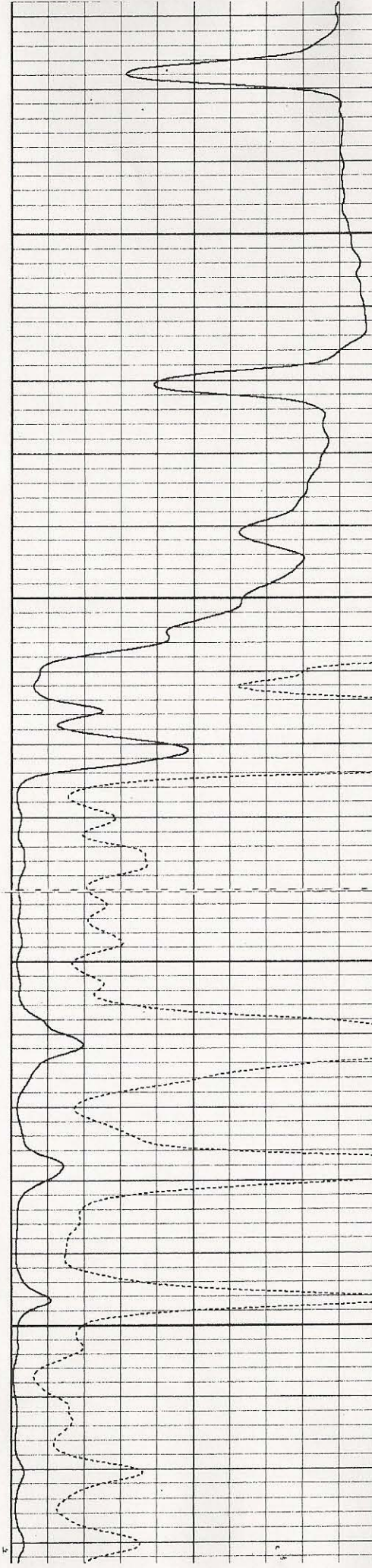


36

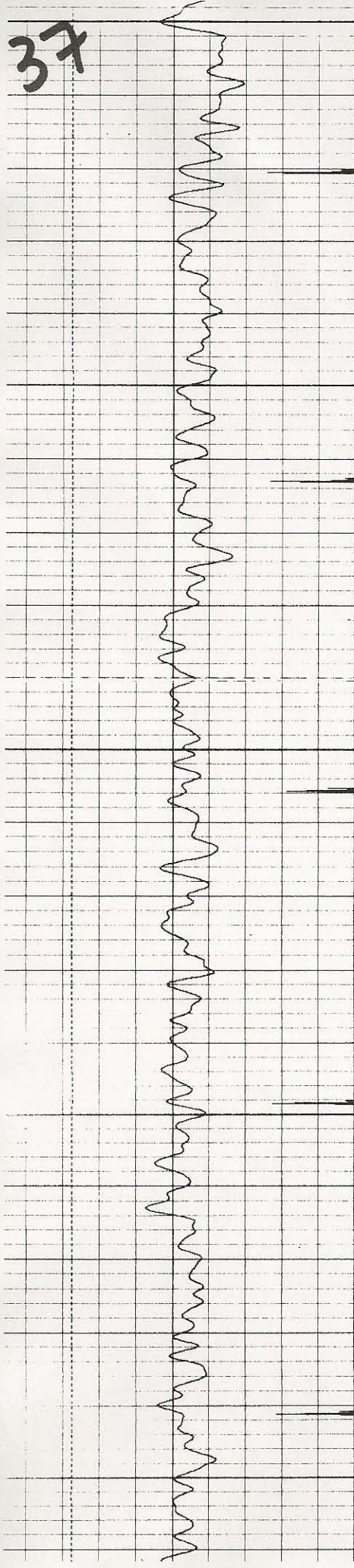


5800

5900



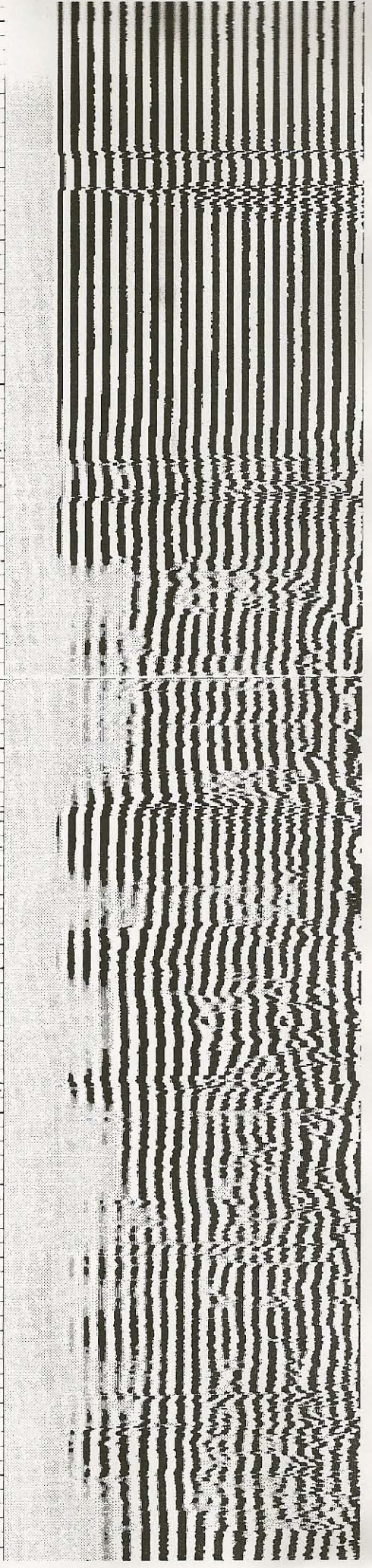
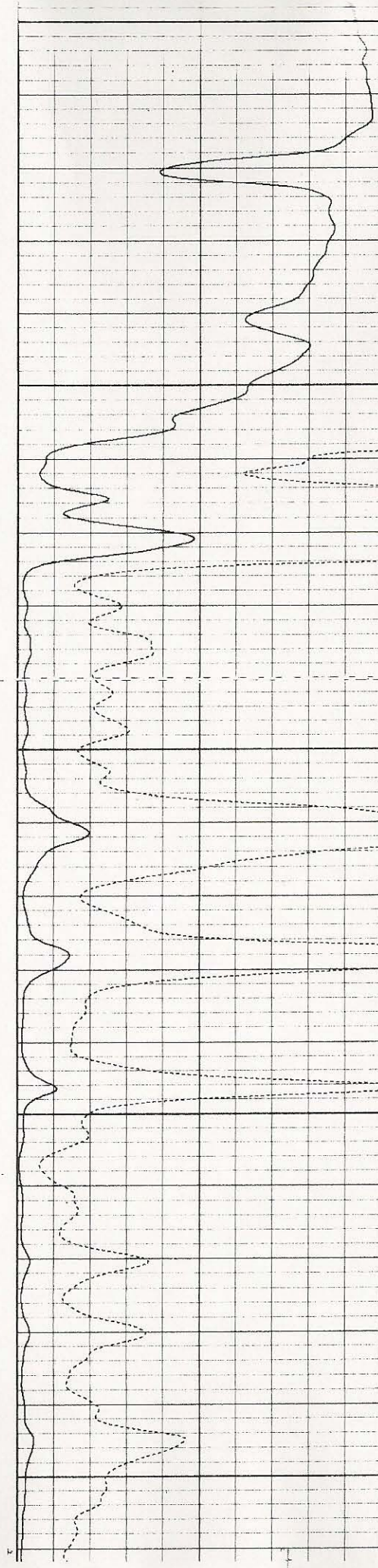
37



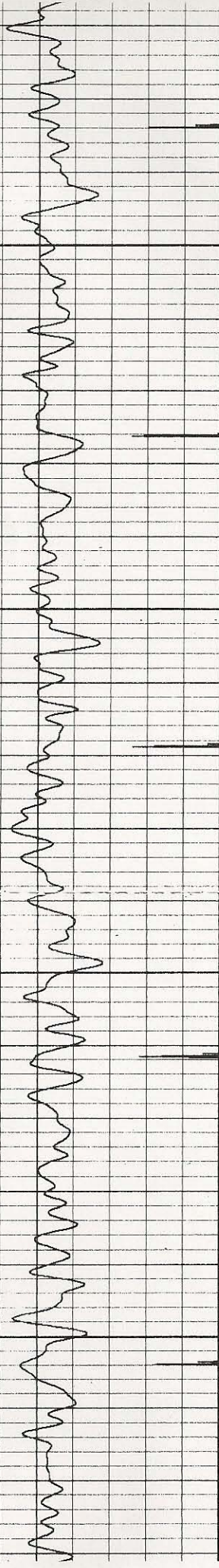
5800

5900

6000

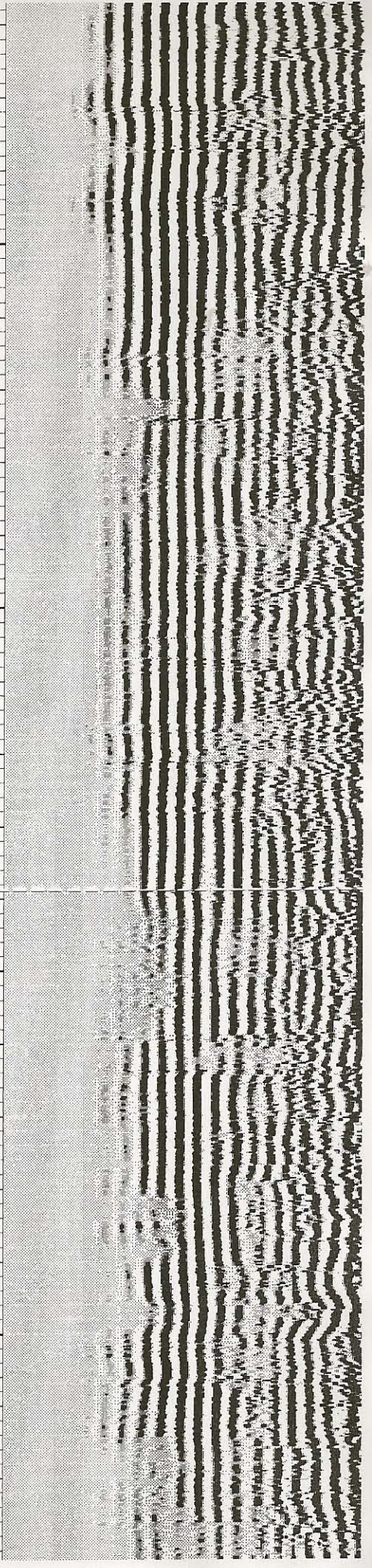
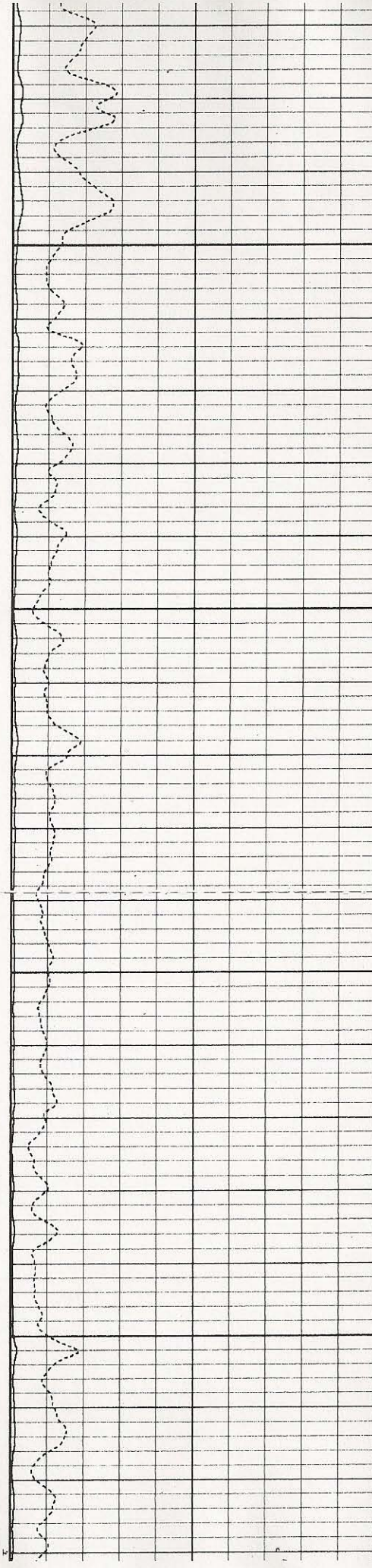


38

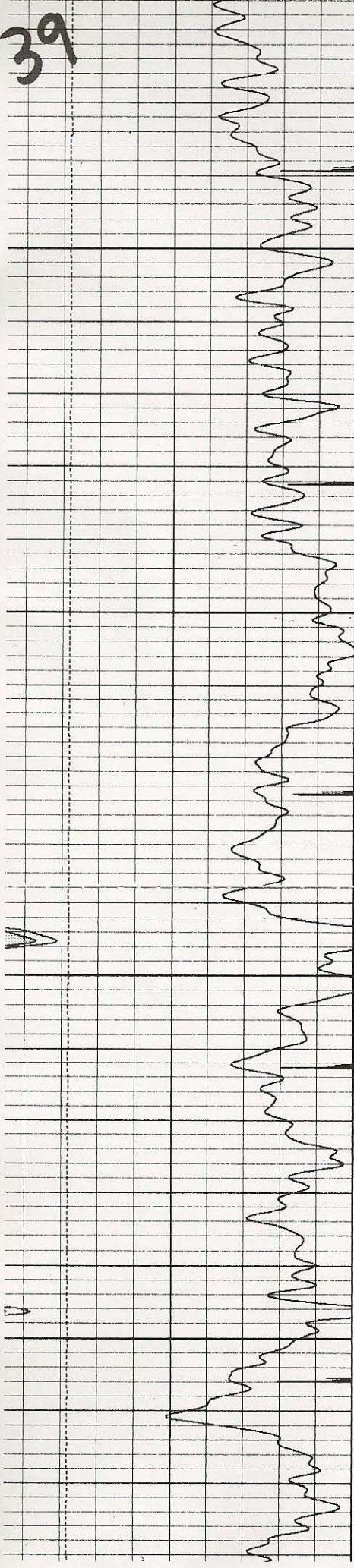


6100

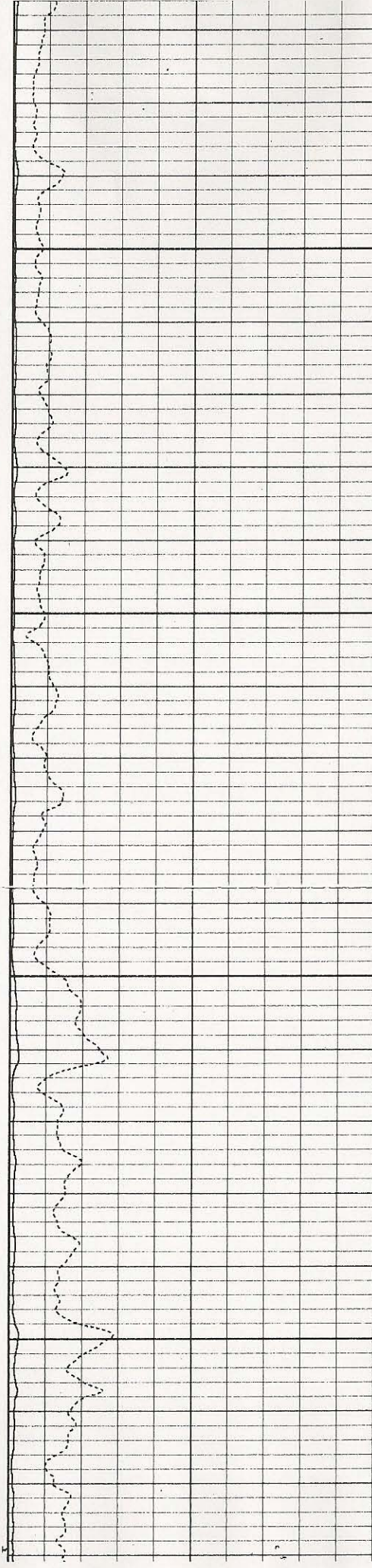
6200



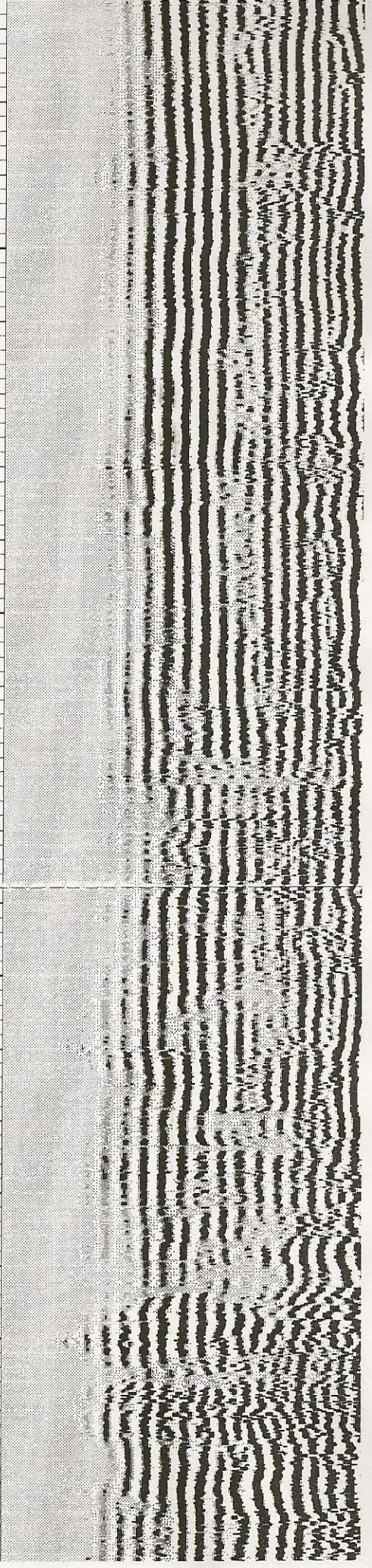
39



6300



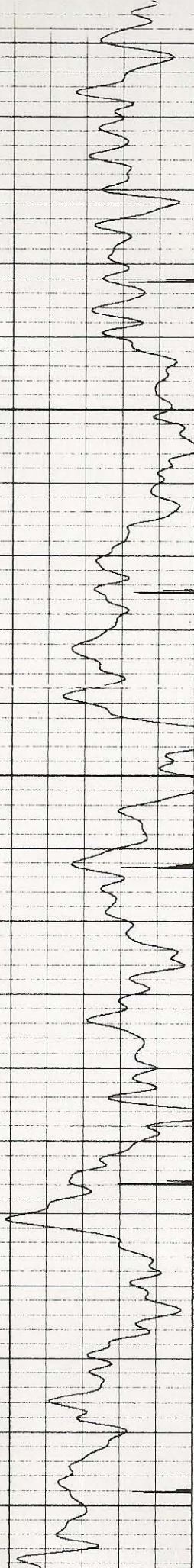
6400



40

A

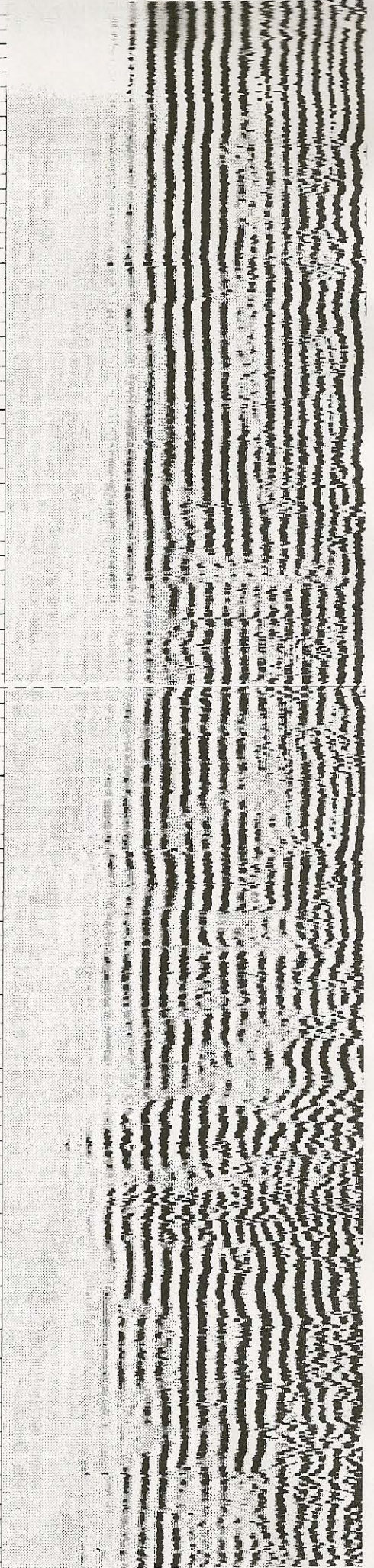
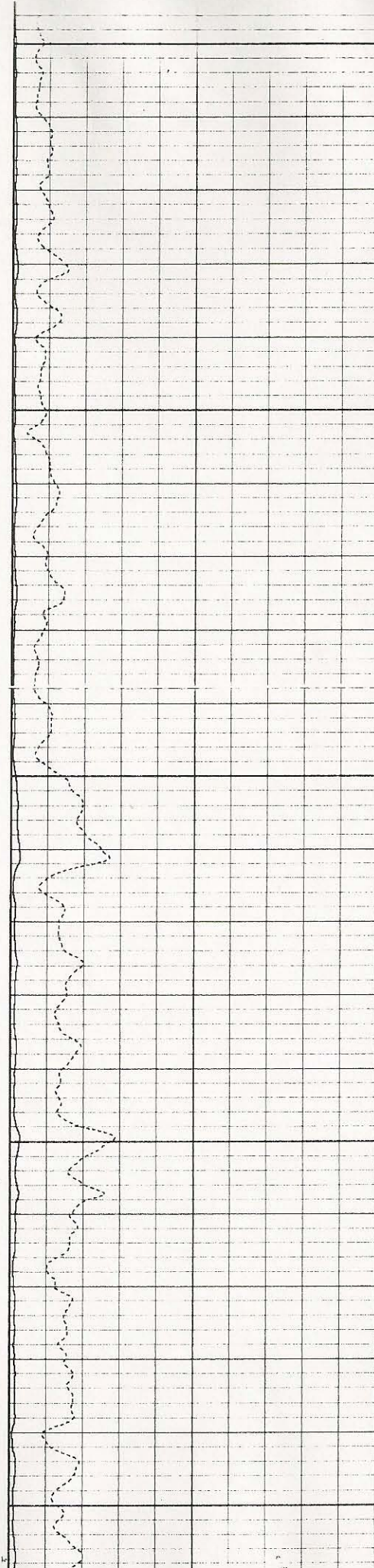
A

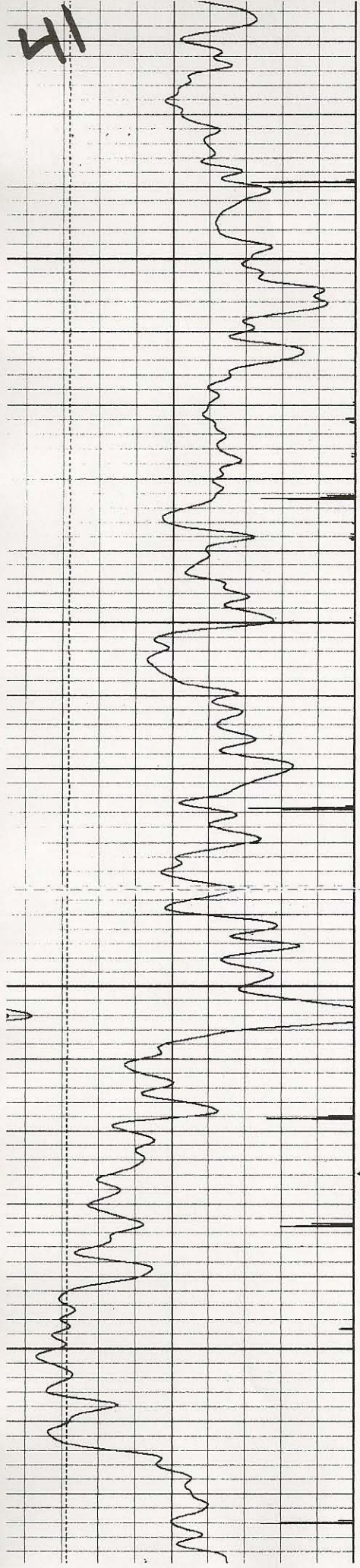


6300

6400

6500

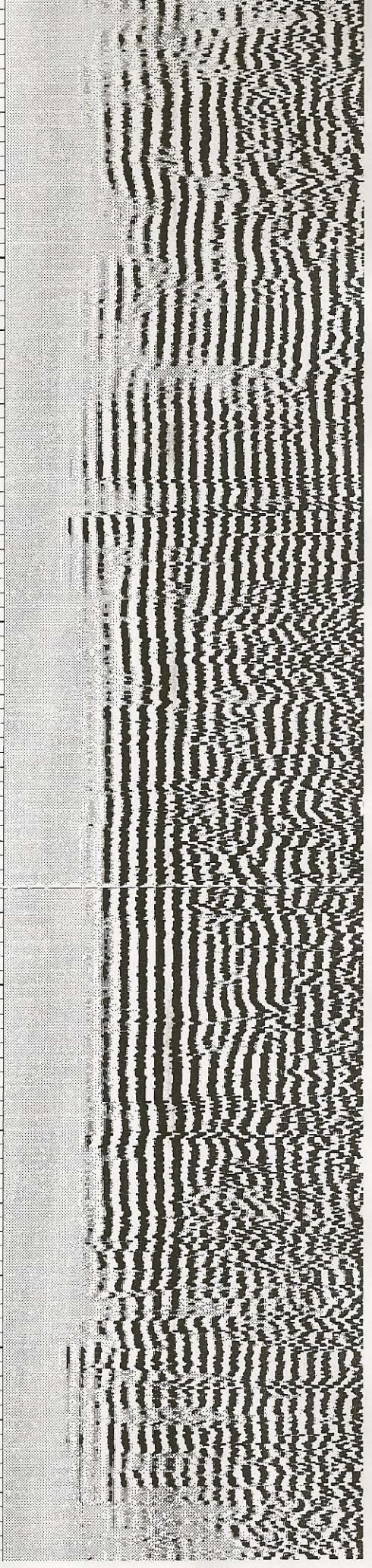
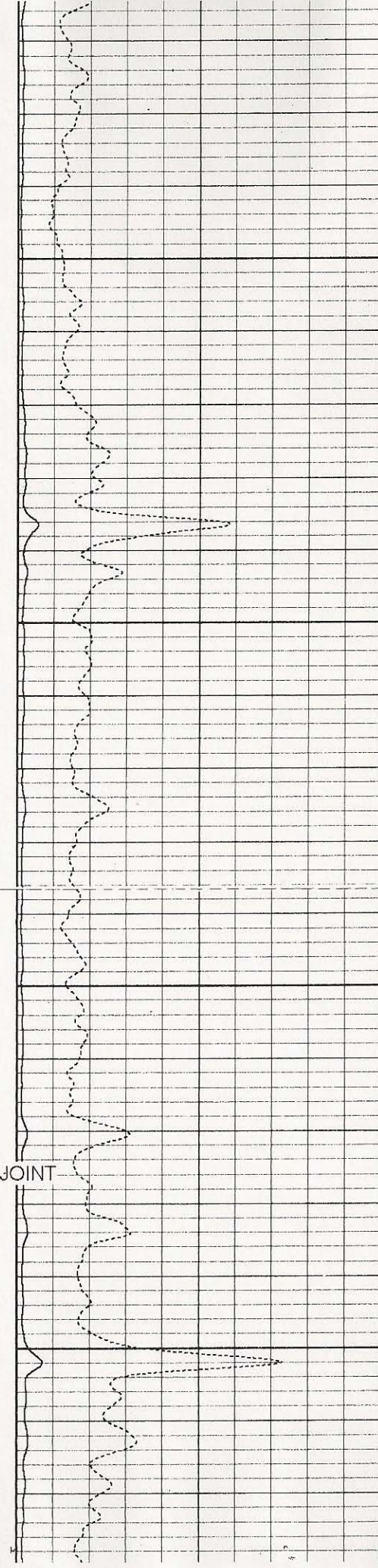




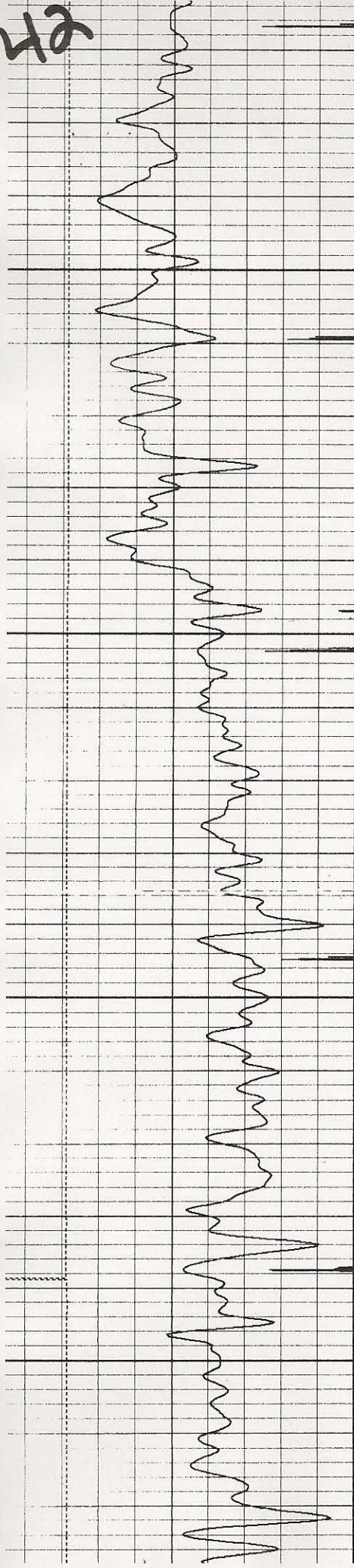
6600

← FLAG JOINT

6700

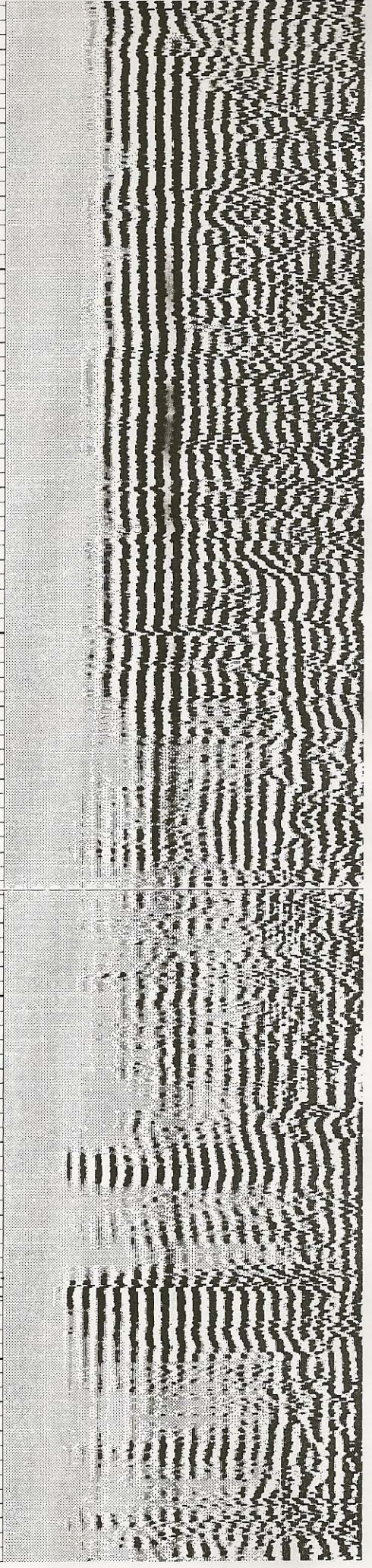
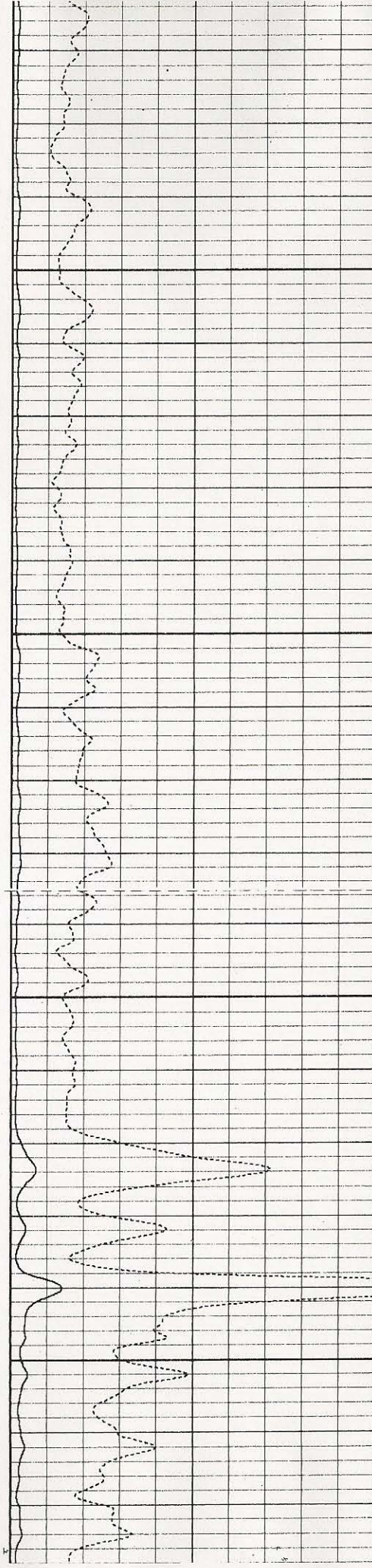


42

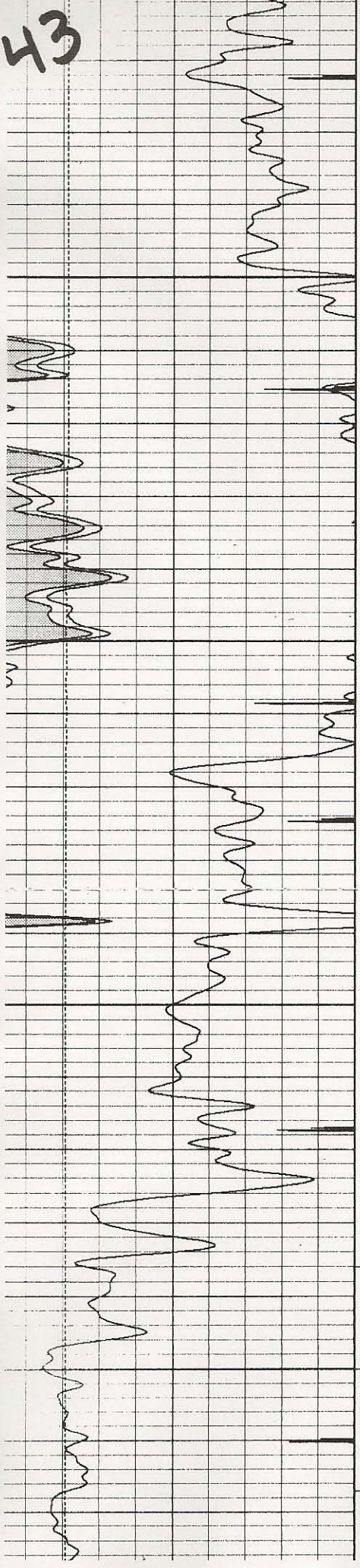


6800

6900



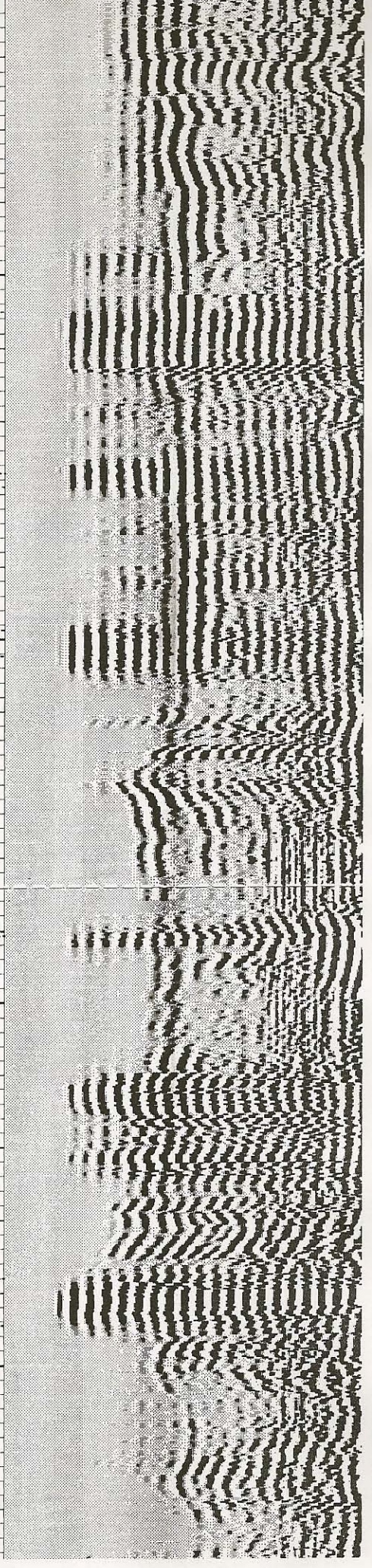
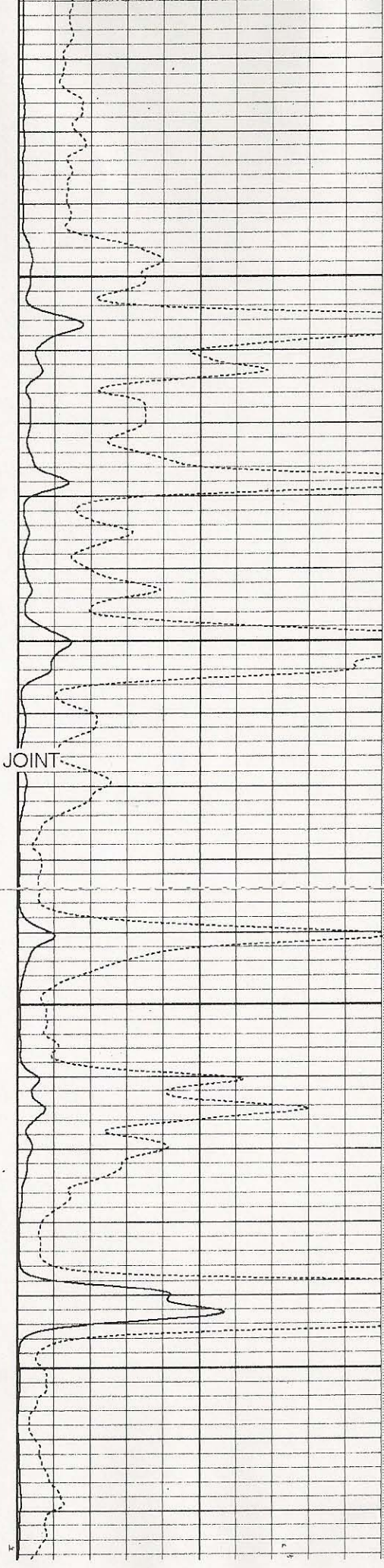
43



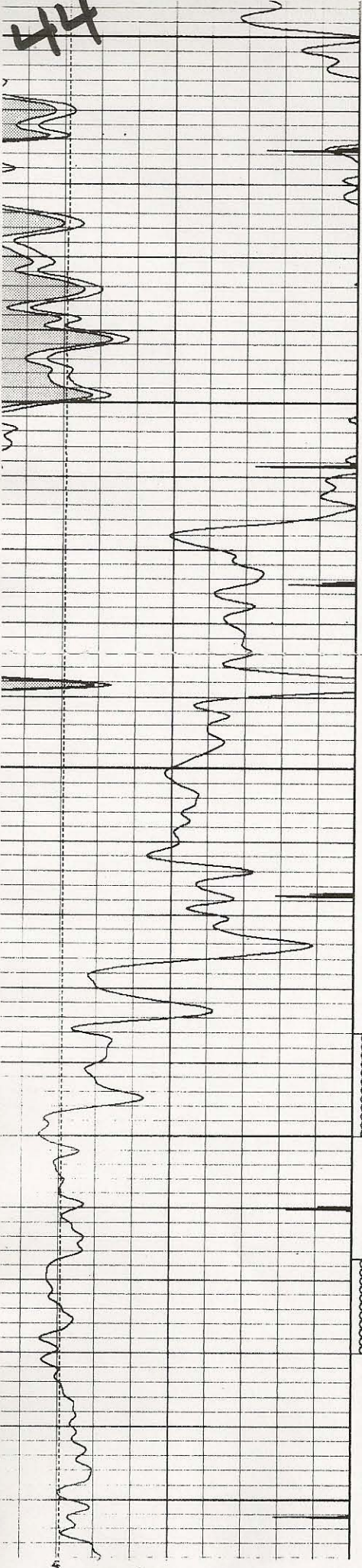
7100

← FLAG JOINT

7200



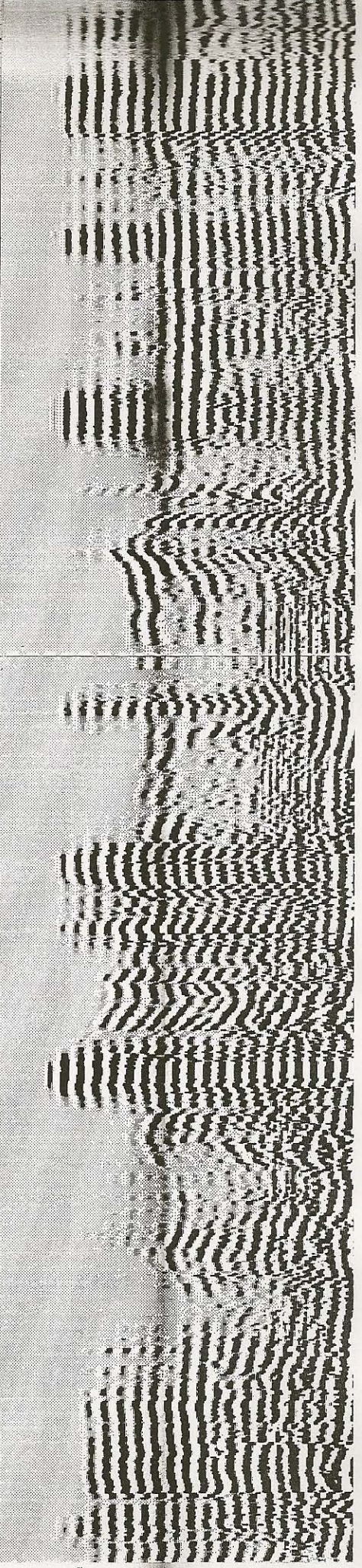
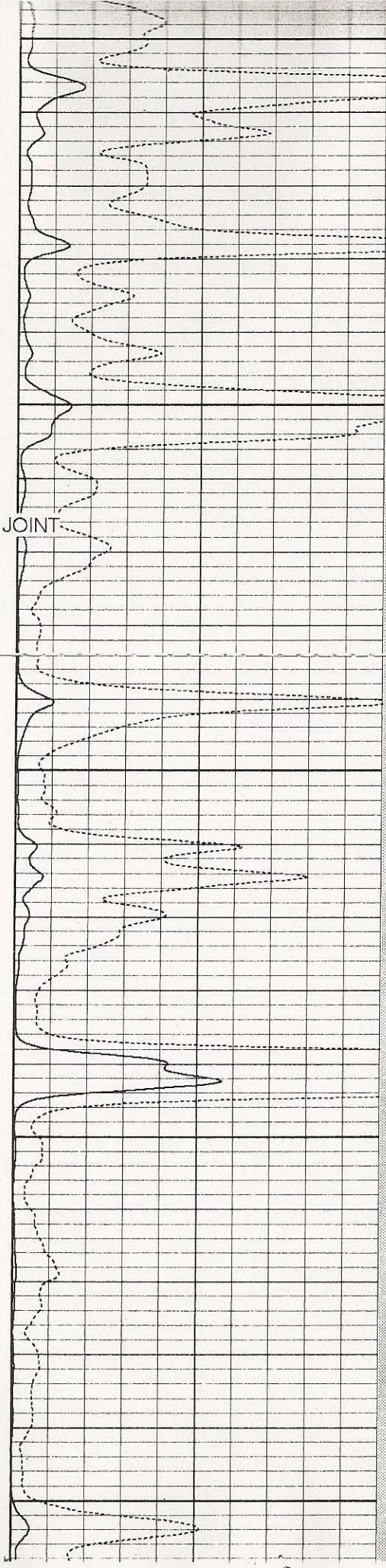
44

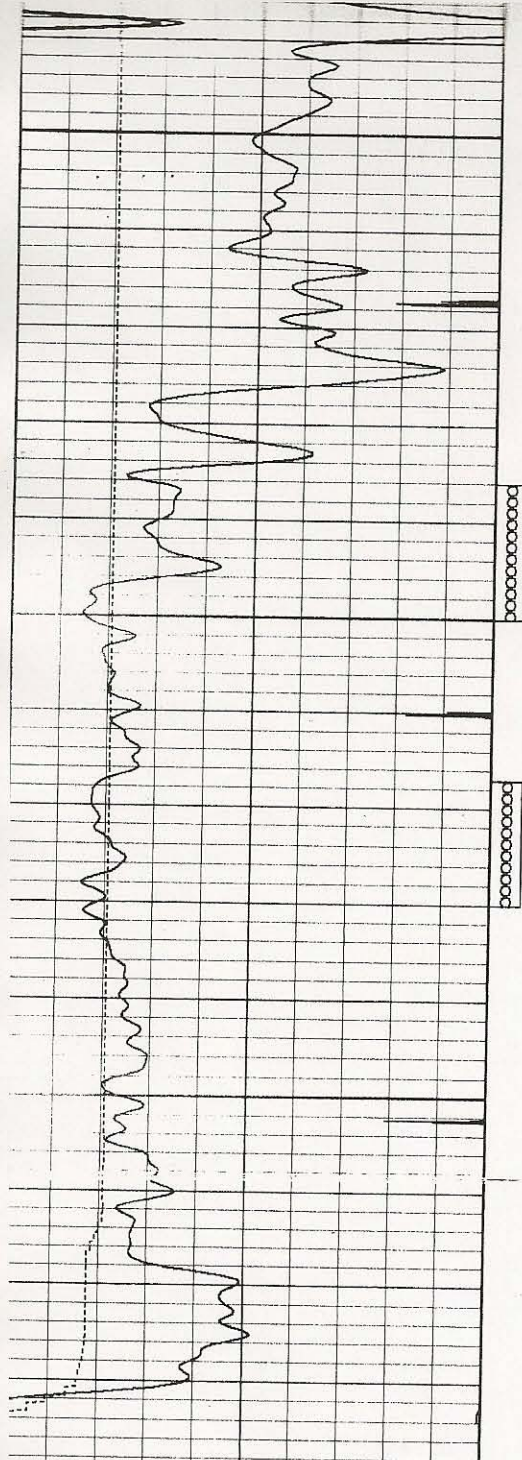


7100

← FLAG JOINT

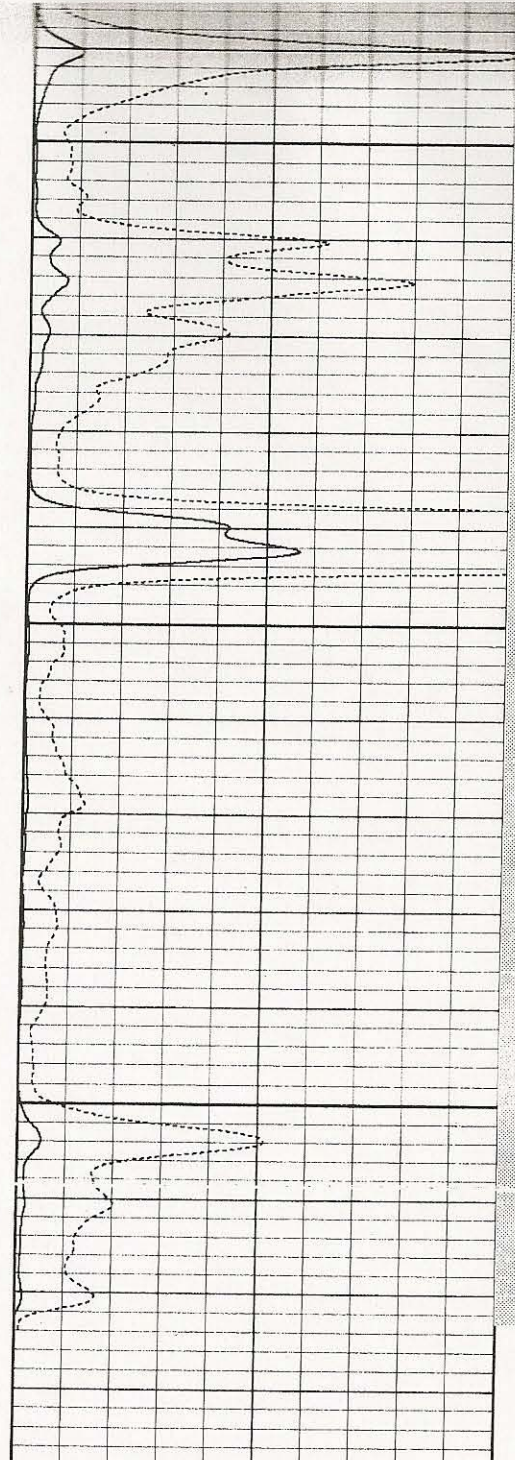
7200



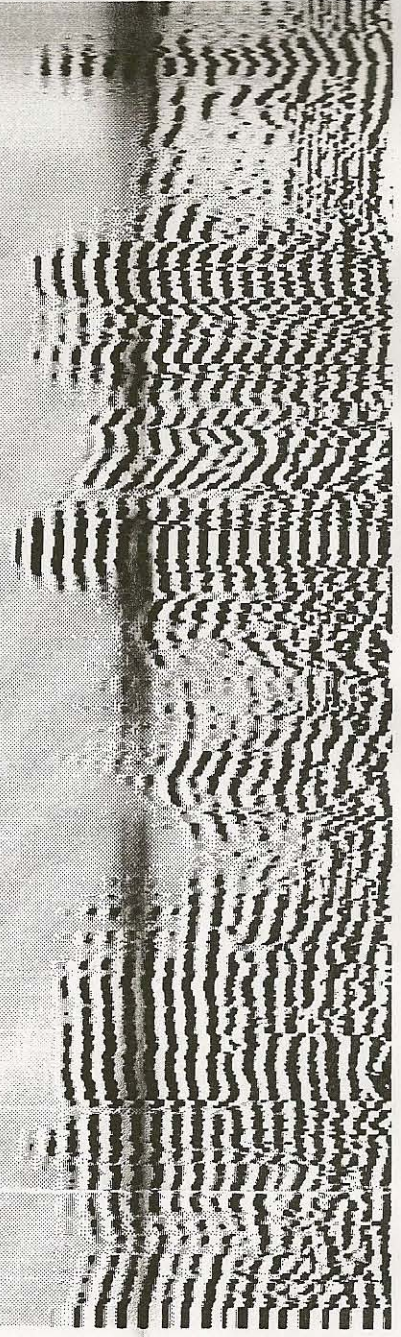


7200

CCL	0.5
Gamma Ray (GAPI)	150
Line Speed (ft/min)	-300



0	Amplitude (Pipe Bond) (mV)	100	200
0	Amplified Amplitude (mV)	10	



VDL 120