



CEMENT BOND  
GAMMA RAY  
COLLAR CORRELATION

Company		K. P. KAUFFMAN		Country		US	
Well		SUNMARKE 19-28-14		Field		WATTENBERG	
County		WELD		State		COLORADO	
Date		27-MAR-2012		Location:		API # : 05-123-35081-00	
Run Number		ONE		Permanent Datum		GROUND LEVEL	
Depth Driller		7579		Log Measured From		KELLY BUSHING	
Depth Logger		7454		Drilling Measured From		KELLY BUSHING	
Bottom Logged Interval		7453		Elevation		4975	
Top Log Interval		1296		Other Services		PERF	
Open Hole Size		7 7/8		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Type Fluid		WATER		PERF		K.B. 4989 D.F. 4988 G.L. 4975	
Density / Viscosity		---		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Max. Recorded Temp.		NOT RECORDED		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Estimated Cement Top		1634		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Time Well Ready		---		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Time Logger on Bottom		---		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Equipment Number		HD119		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Location		FT. LUPTON		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Recorded By		GREG JACKSON		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Witnessed By		MR. PAUL ANDERSON		Elevation		K.B. 4989 D.F. 4988 G.L. 4975	
Run Number		Borehole Record		Tubing Record		To	
Bit		From		To		From	
Size		Wgt/Ft		Top		Bottom	
8 5/8		24		SURFACE		737	
Production String		4 1/2		11.6		SURFACE	
Liner						TOTAL DEPTH	

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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

LOG CORRELATED TO HRI/CDN DATED 19-MAR-2012

LOGGED WITH ZERO PSI @ SURFACE

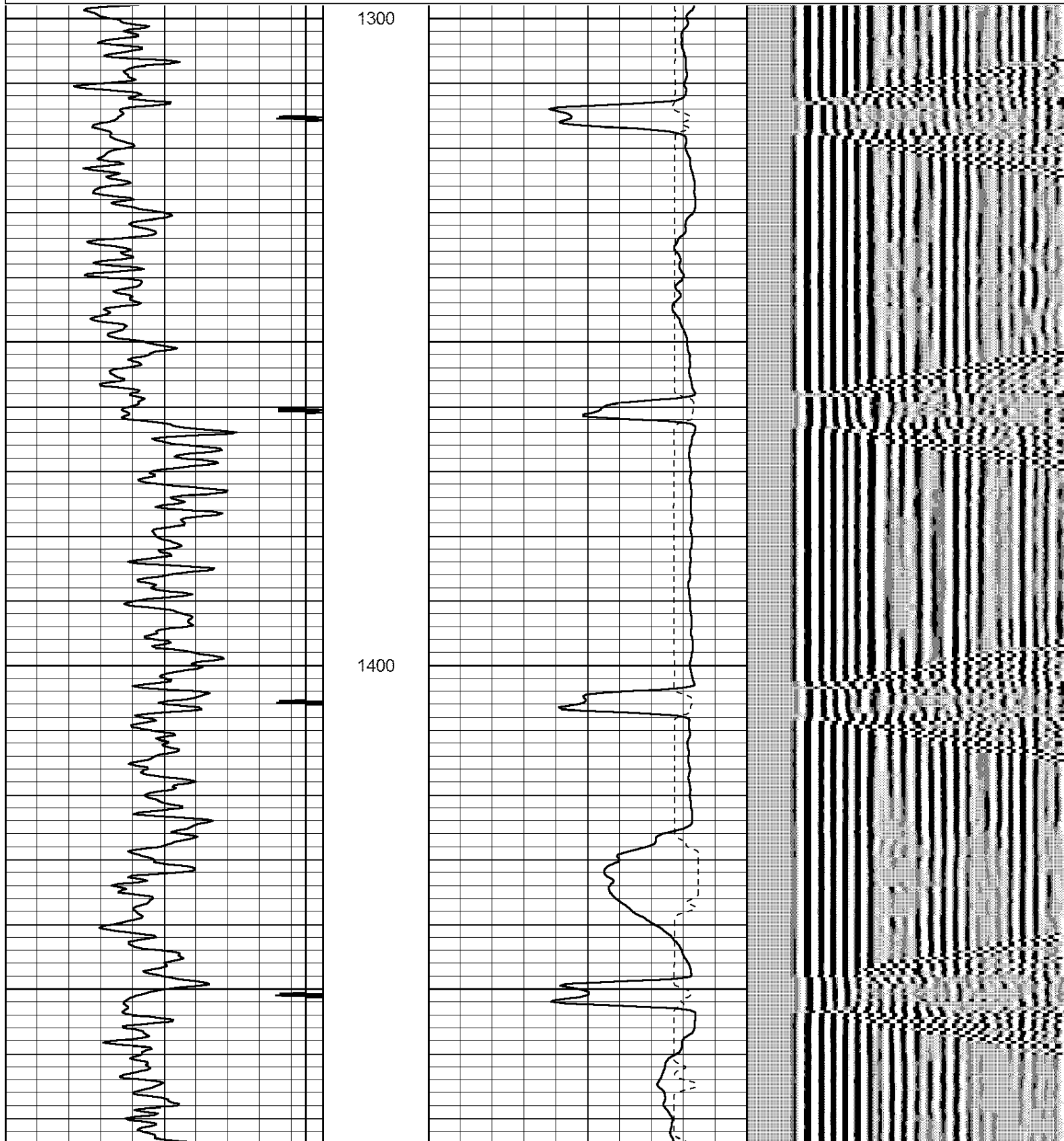
THANK YOU FOR CHOOSING PURE ENERGY SERVICES

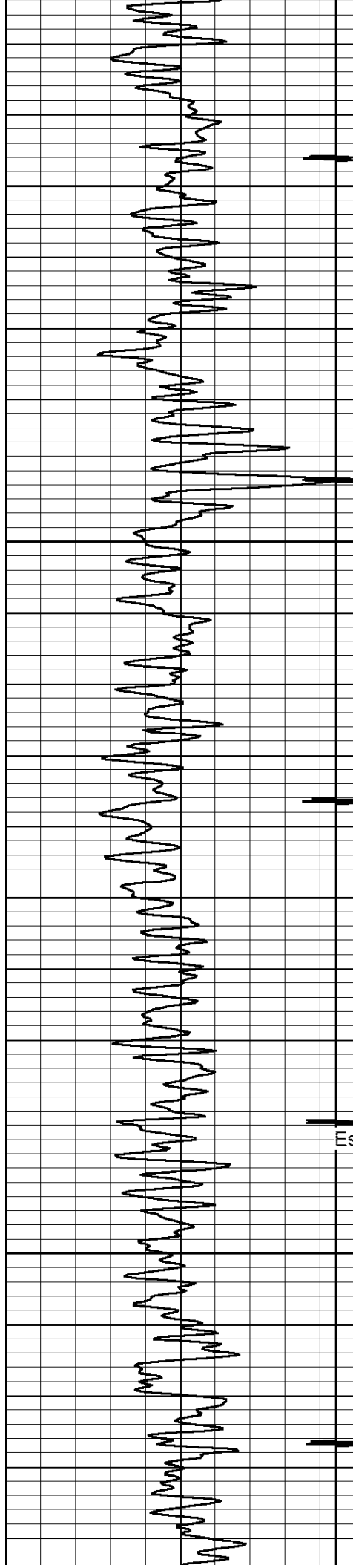
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			SENT 35100 (10 ft)	3.70	3.75	10.00

			CENT-TEKCO (101)	2.73	2.75	10.00
WVFS1	16.00					
WVFS2	16.00					
WVFS3	16.00		TEKSCBL-TEKCO275 (0001)	9.33	2.75	100.00
WVFS4	16.00					
WVFS5	16.00					
WVFS6	16.00					
WVFS7	16.00					
WVFS8	16.00					
WVF3FT	15.25					
WVFCAL	15.25					
WVF5FT	14.25					
WVFSYNC	10.42					
			CENT-TEKCO (101)	2.73	2.75	10.00
CCL	6.83		CCL-2.75 (TEKCO) 2.75 TEKCO CCL	1.55	2.75	10.00
GR	3.79		GR-TEKCO (101SGR) 2.75 HIGH TEMP LOGGING GR	3.41	2.75	25.00
			CENT-TEKCO (101)	2.73	2.75	10.00
Dataset: sunmarke 19-28-14_cbl.db: field/well/run1/pass6 Total Length: 22.48 ft Total Weight: 165.00 lb O.D. 2.75 in						

Database File: sunmarke 19-28-14\_cbl.db  
 Dataset Pathname: pass6  
 Presentation Format: p\_cbl  
 Dataset Creation: Tue Mar 27 10:35:47 2012 by Log SCH 120126  
 Charted by: Depth in Feet scaled 1:240

Collar Locator			0	3 FT Amplitude x 5 (mV)	20	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	3 FT Amplitude (mV)	100			
			650	3' Travel Time (usec)	150			

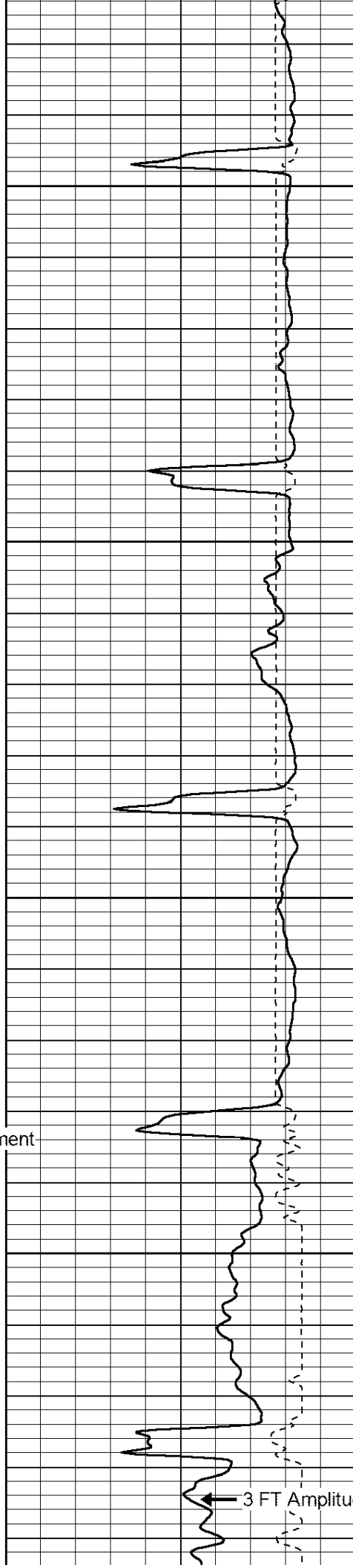




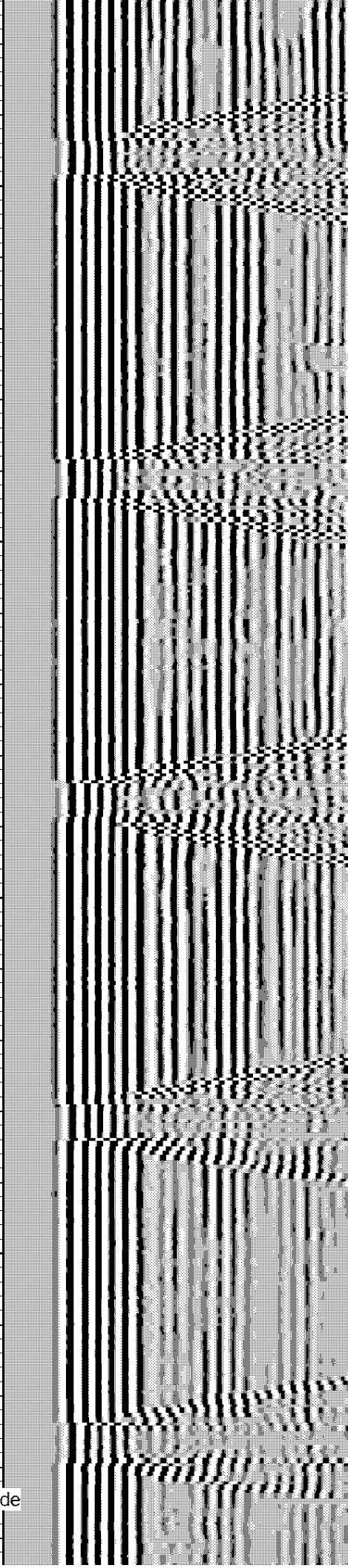
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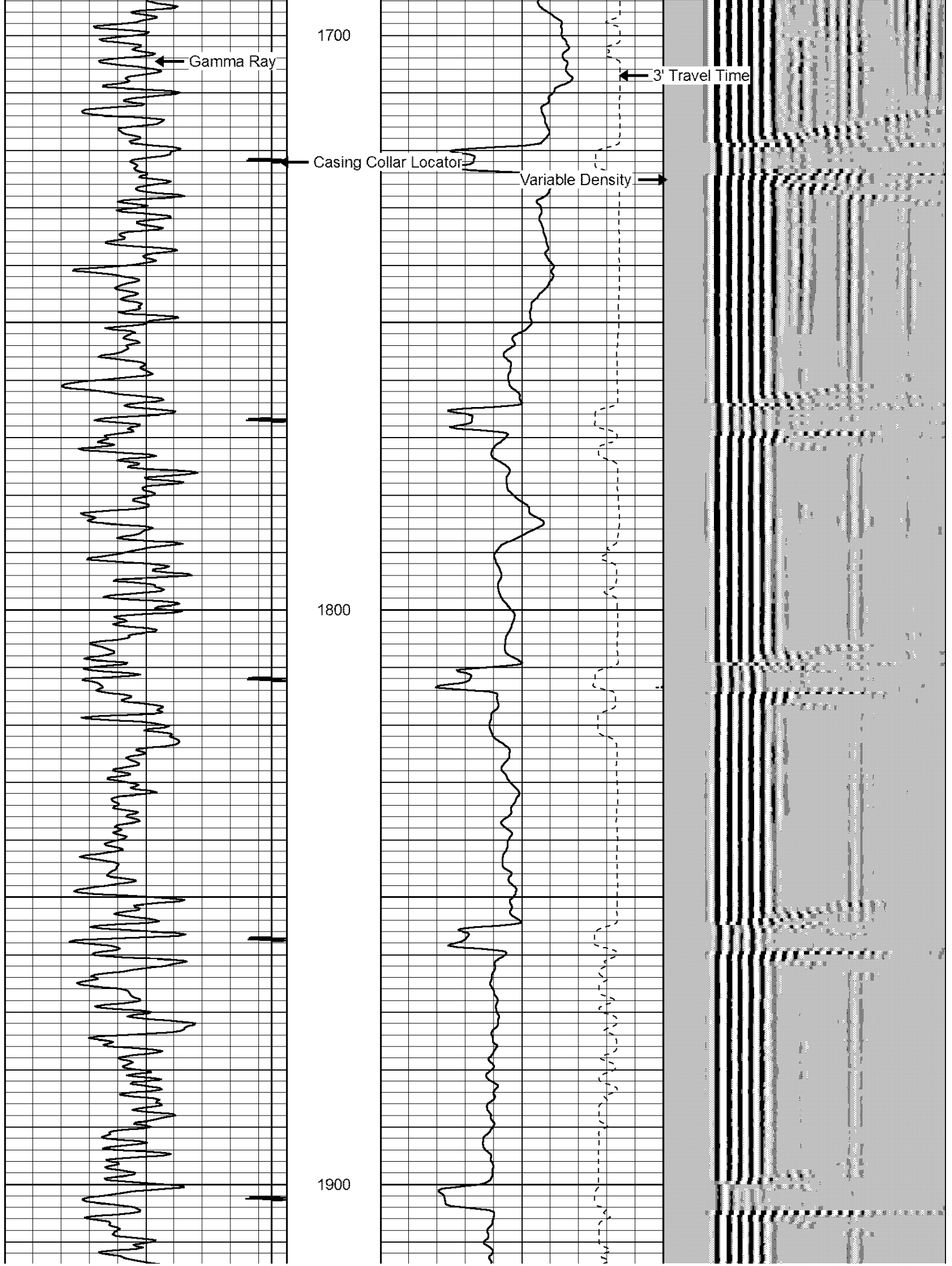
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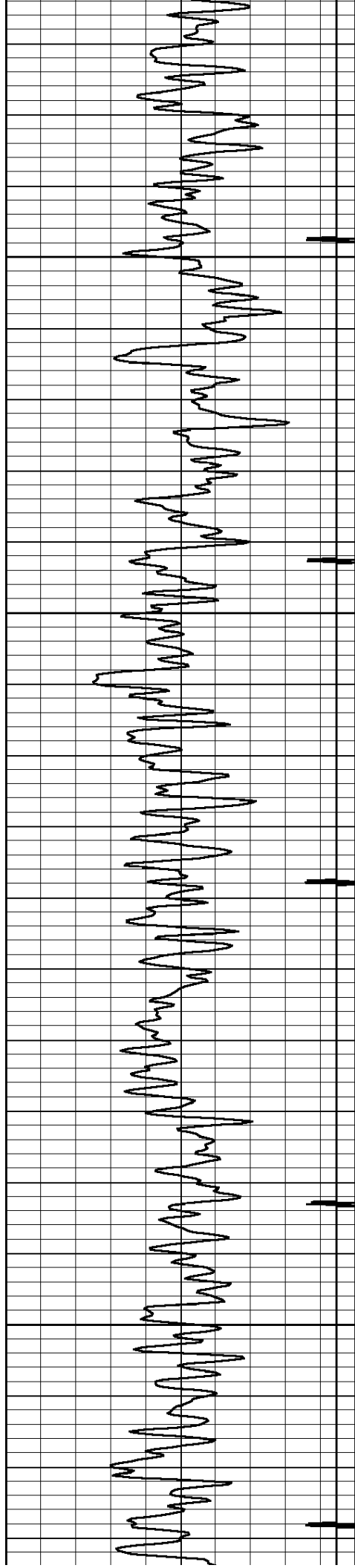
Est. Top of Cement



3 FT Amplitude

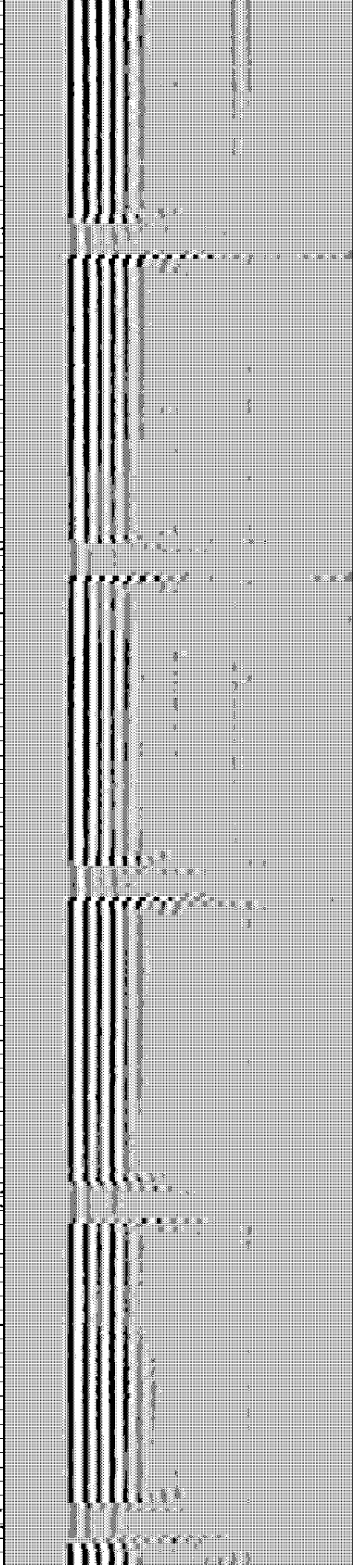
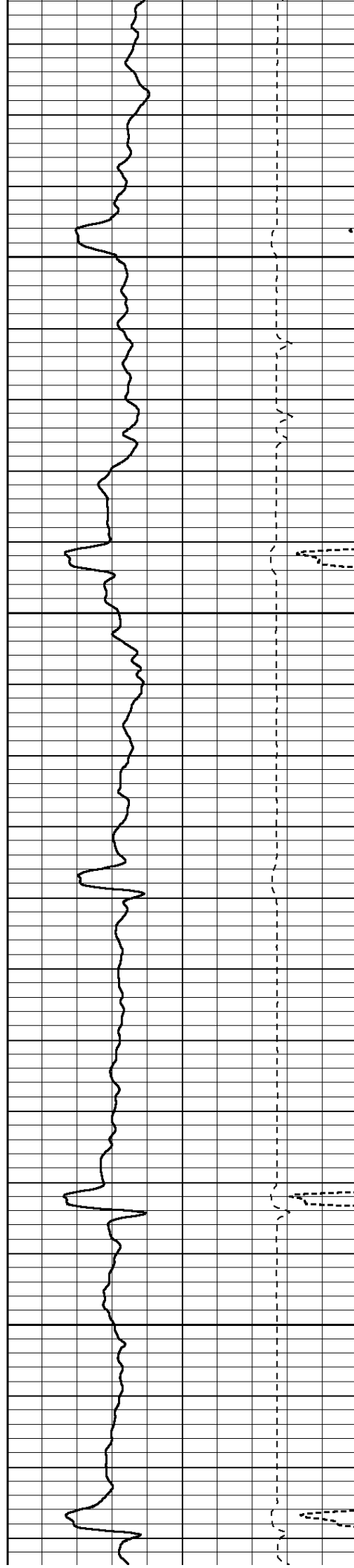


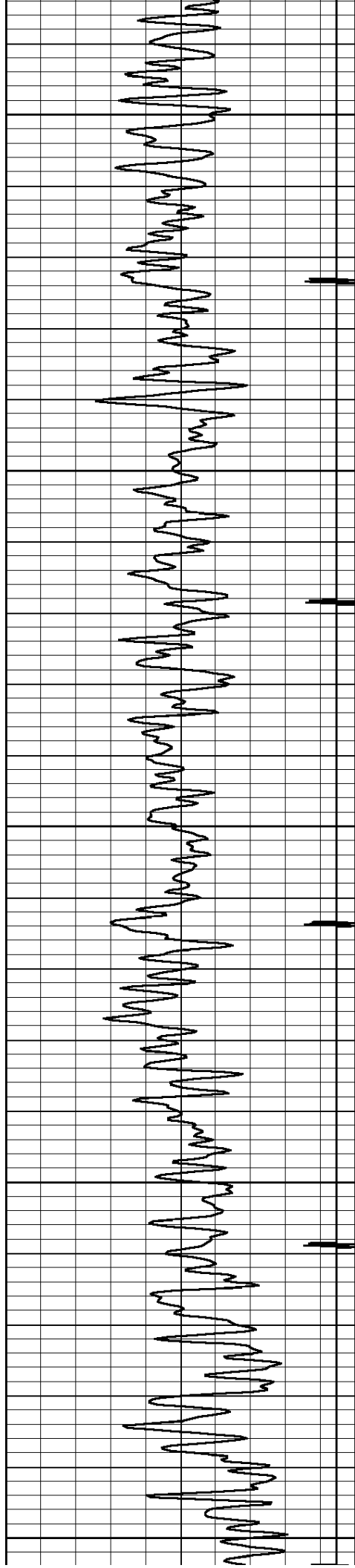




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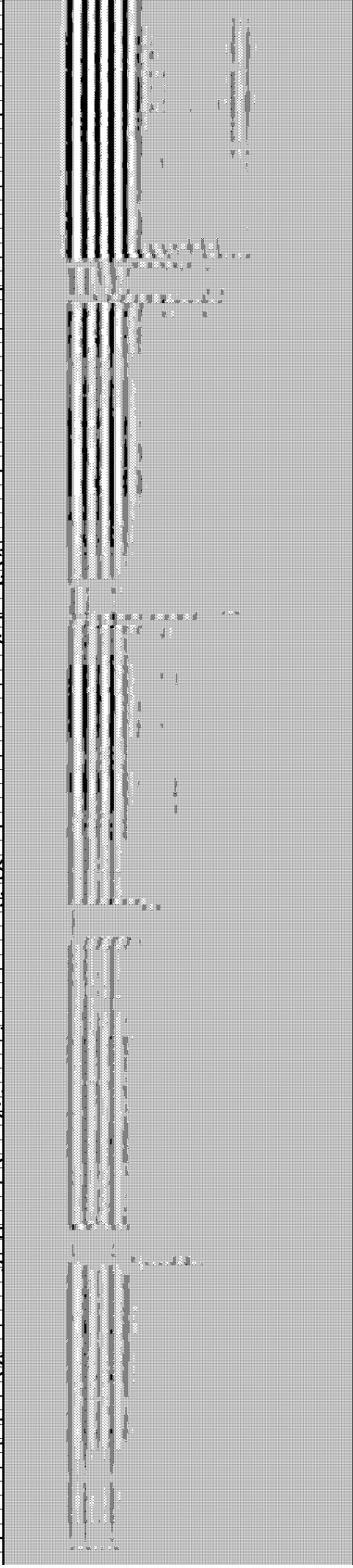
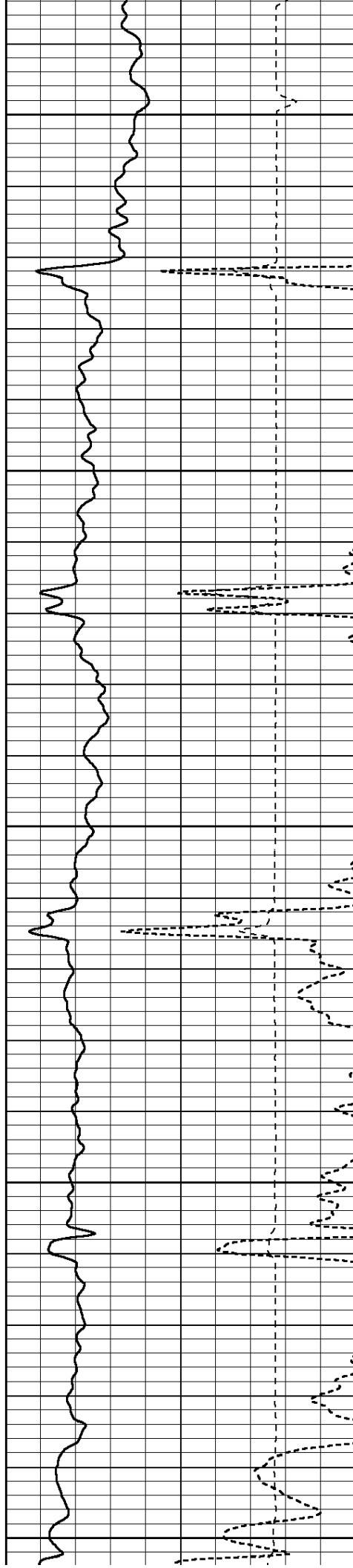
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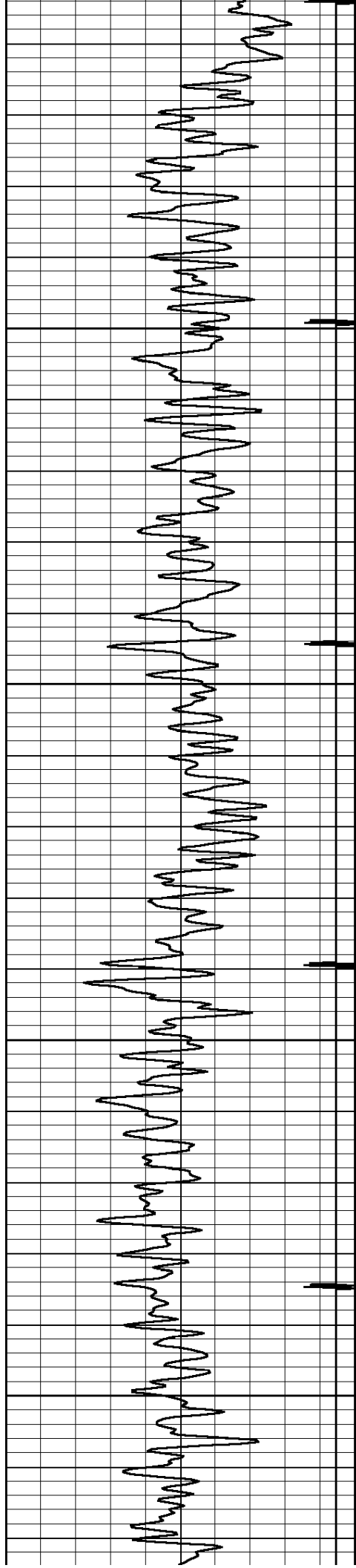




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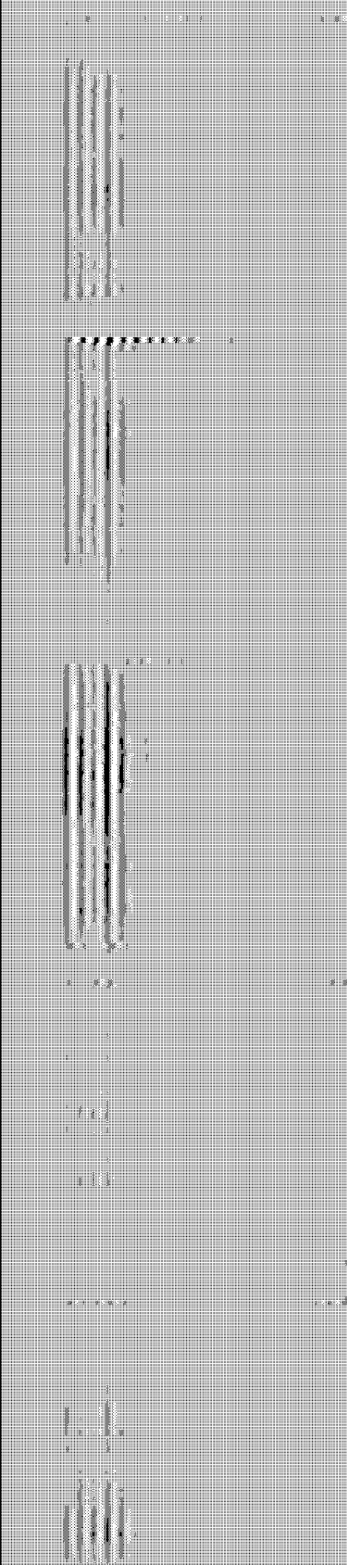
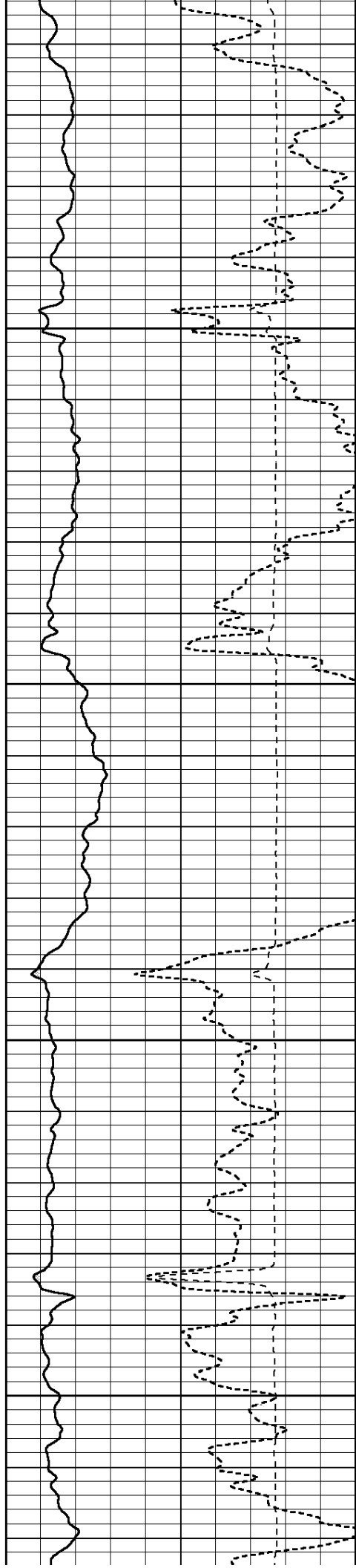
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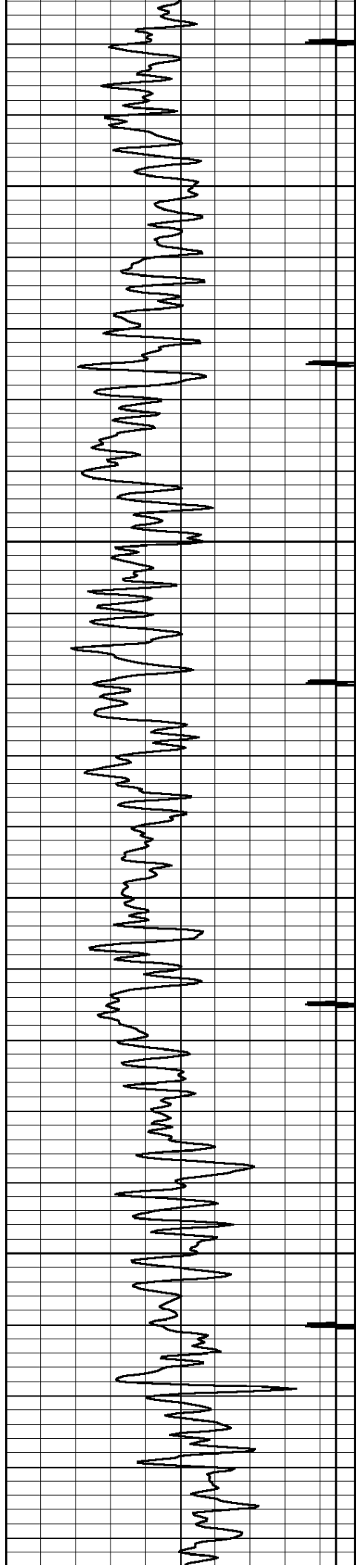


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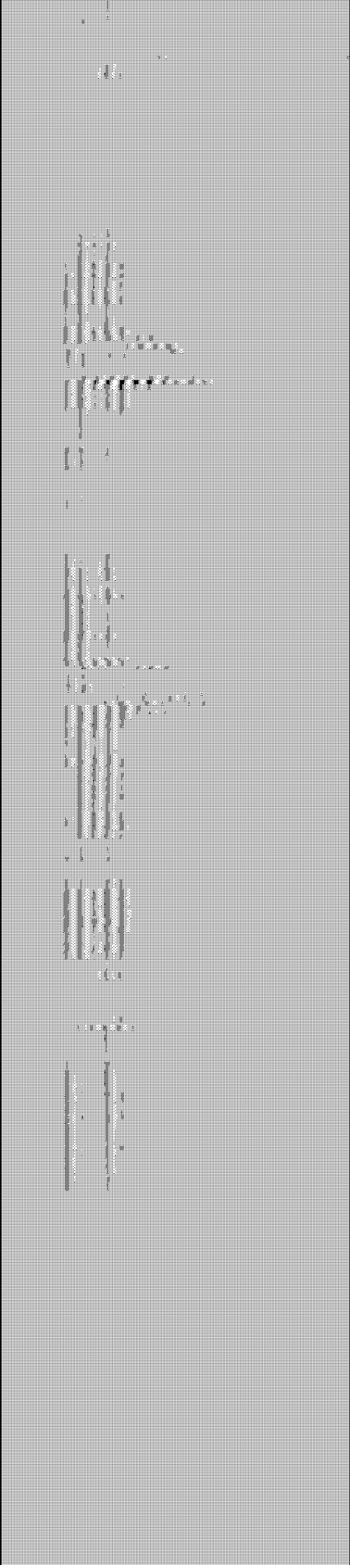
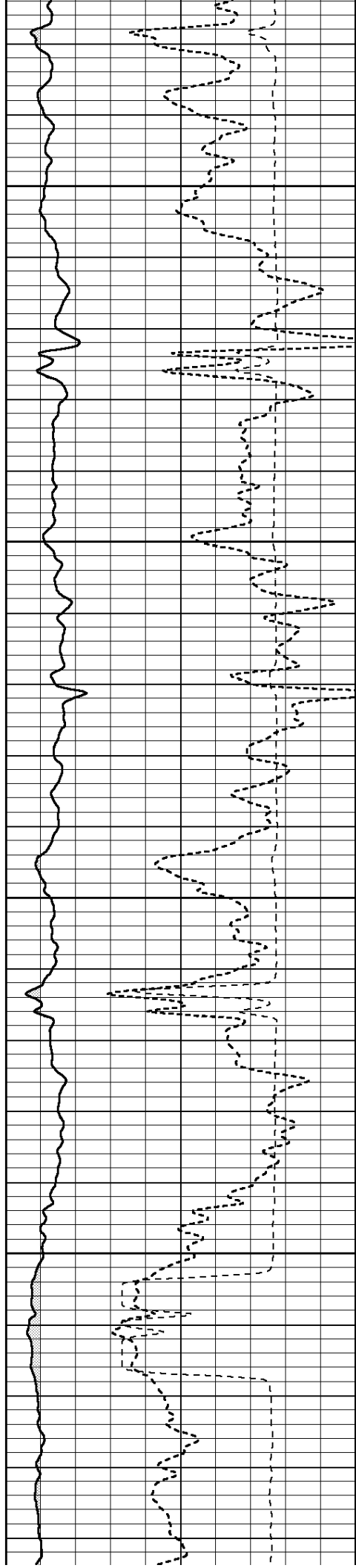


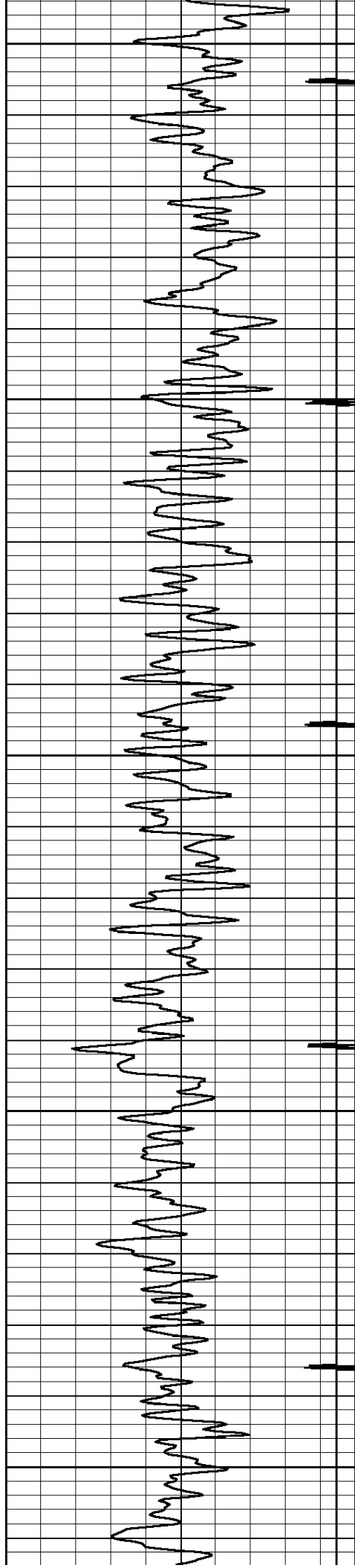




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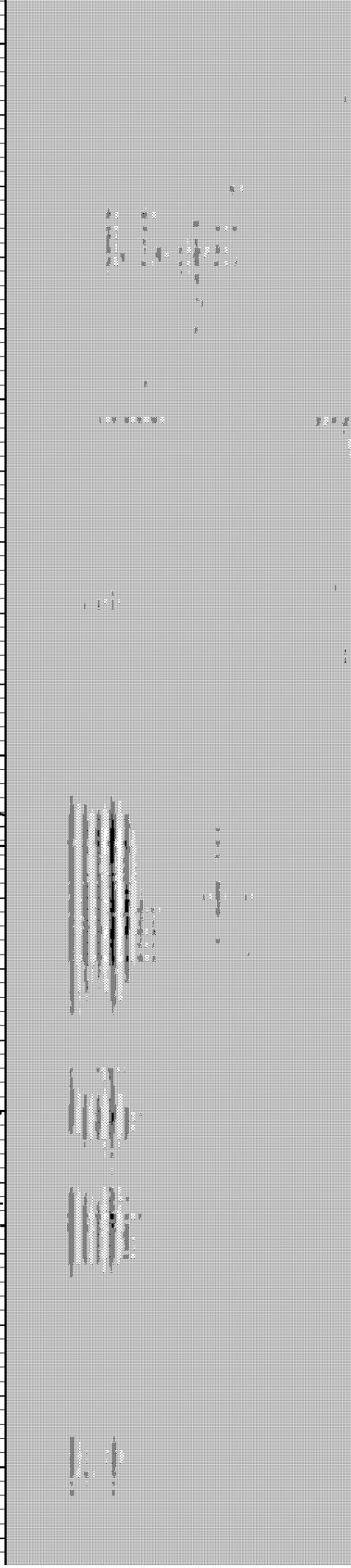
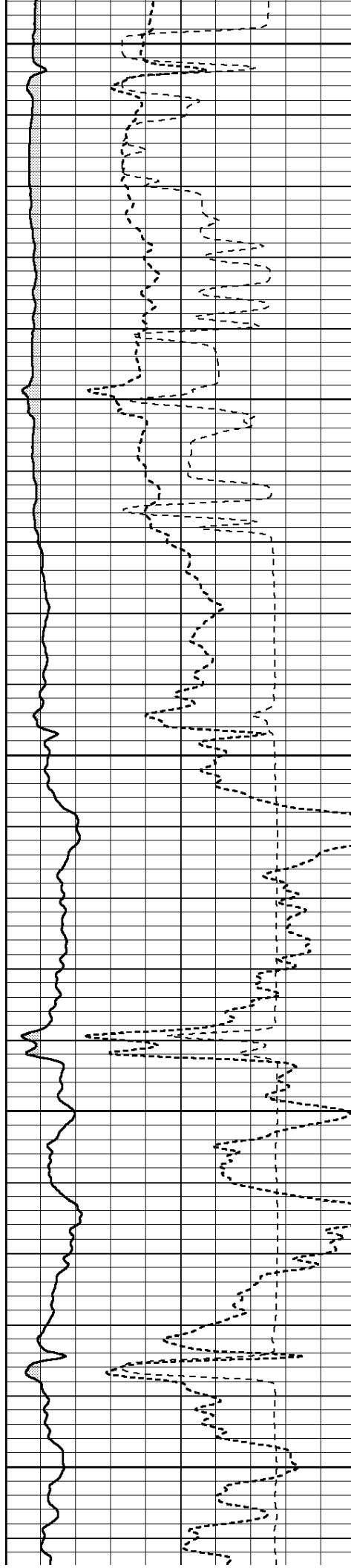


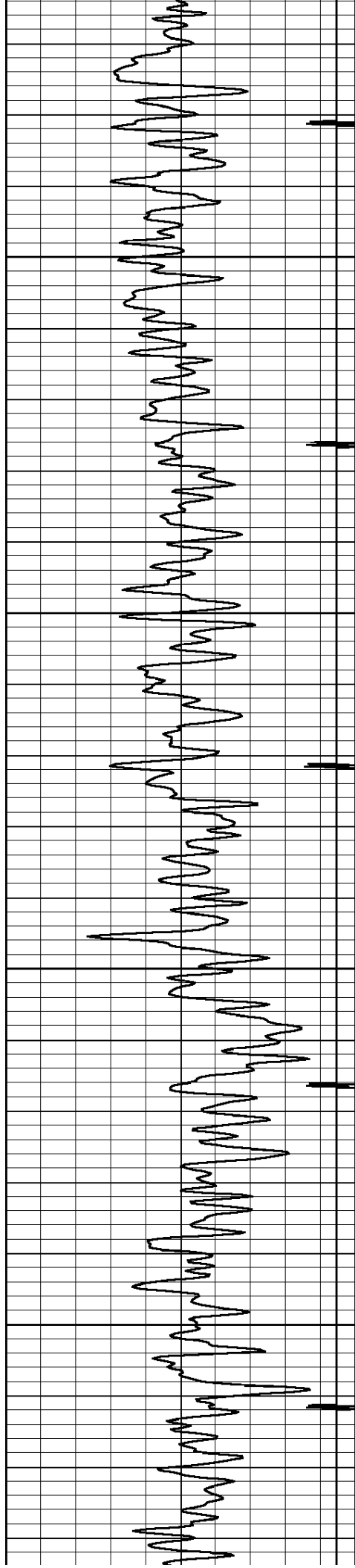


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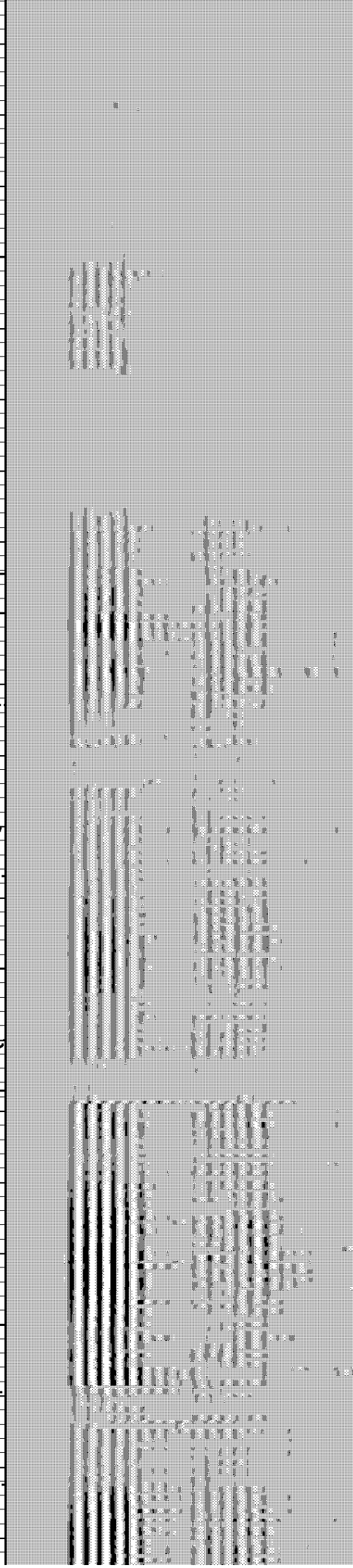
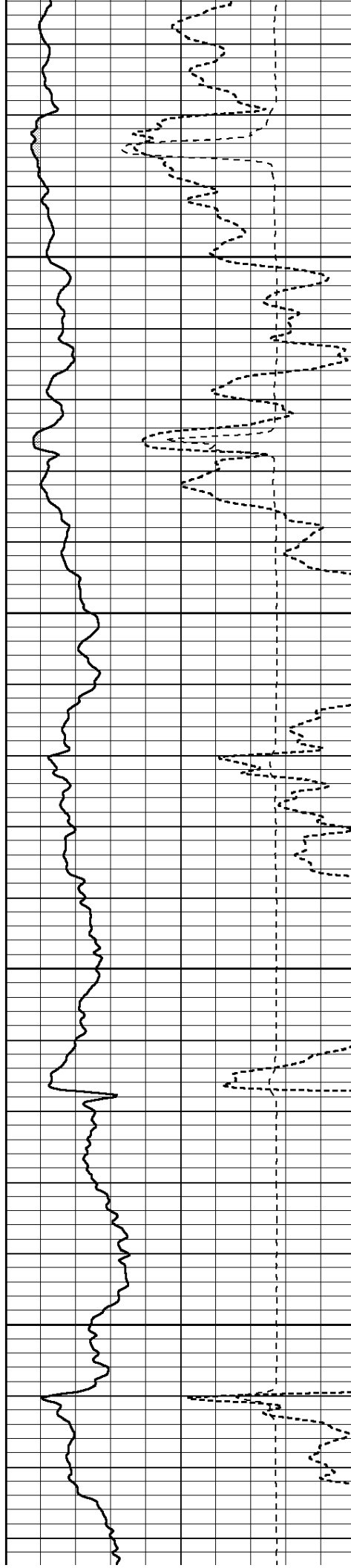
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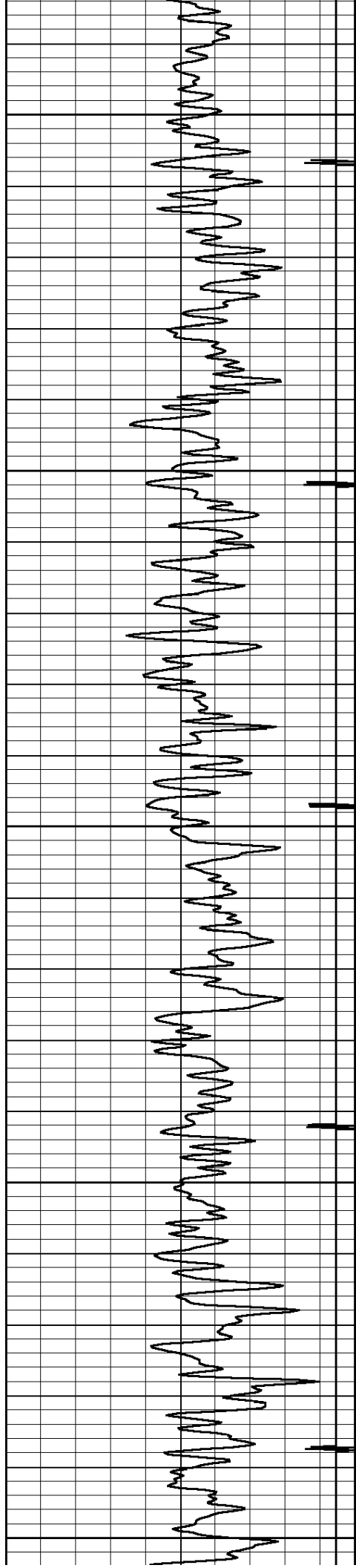




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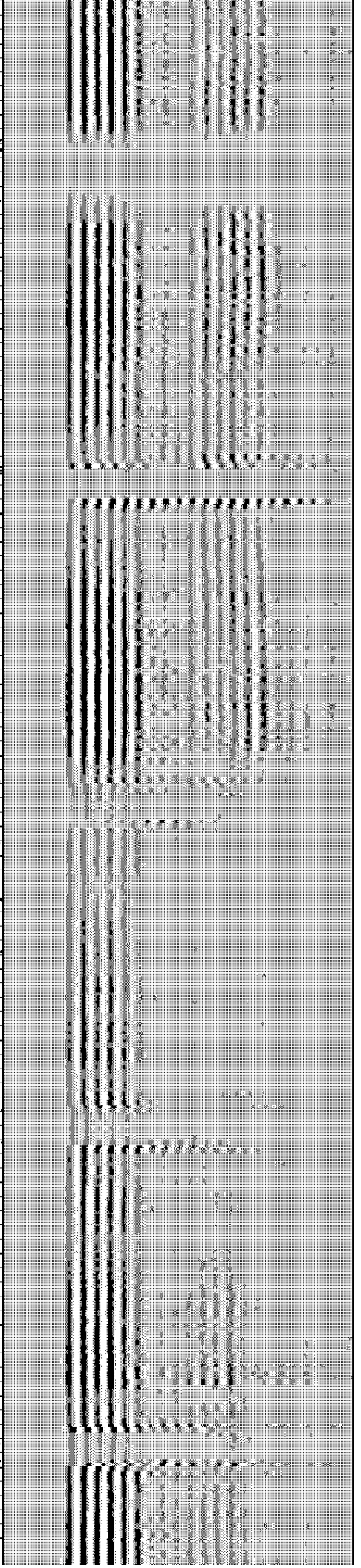
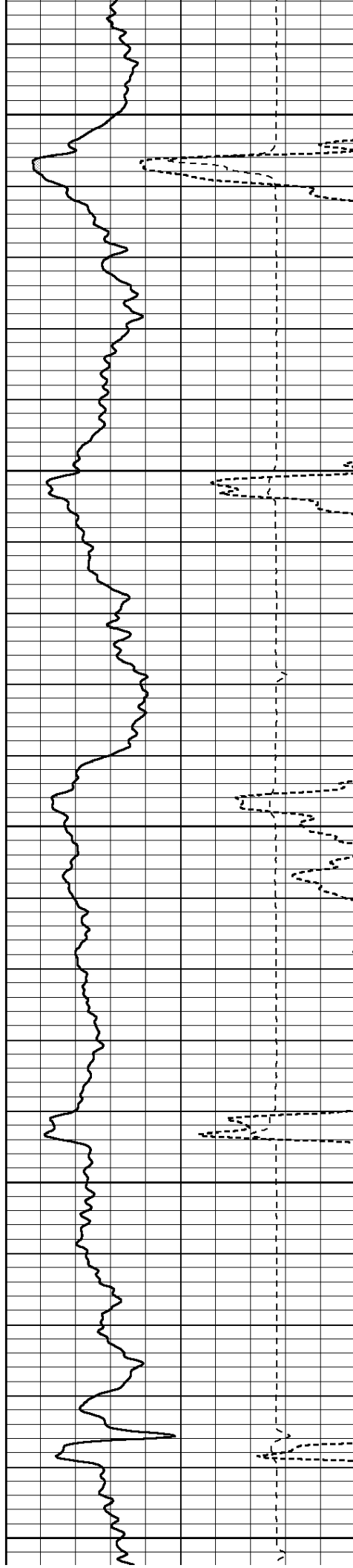
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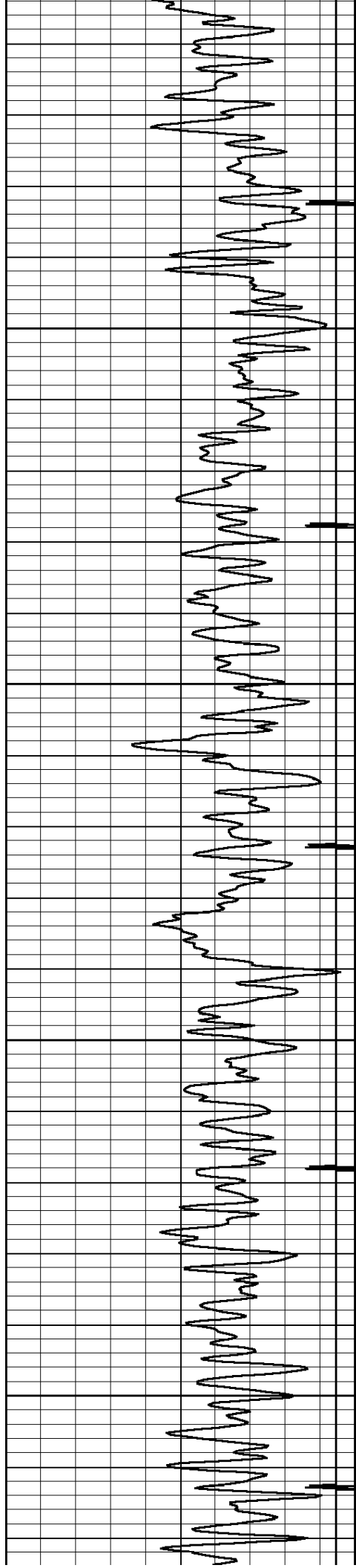




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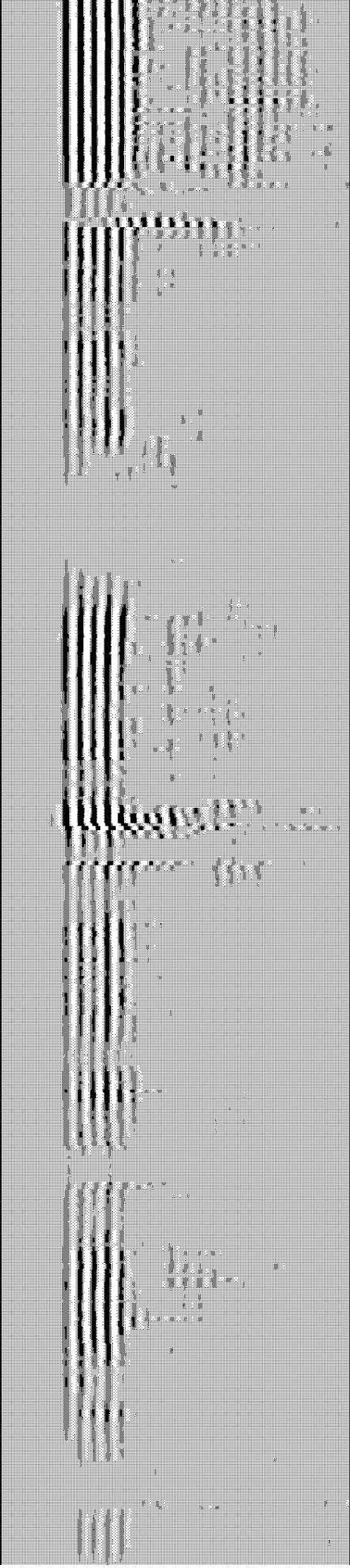
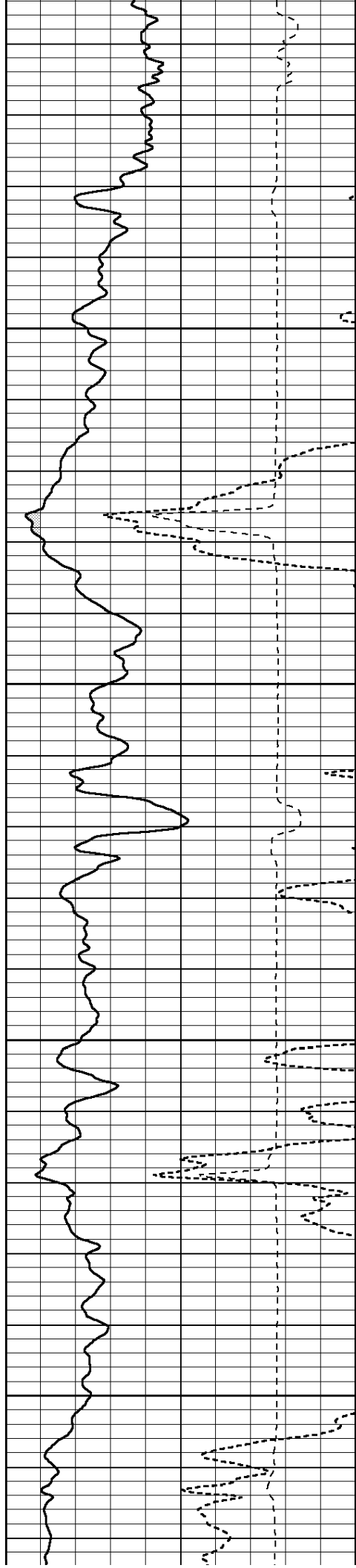
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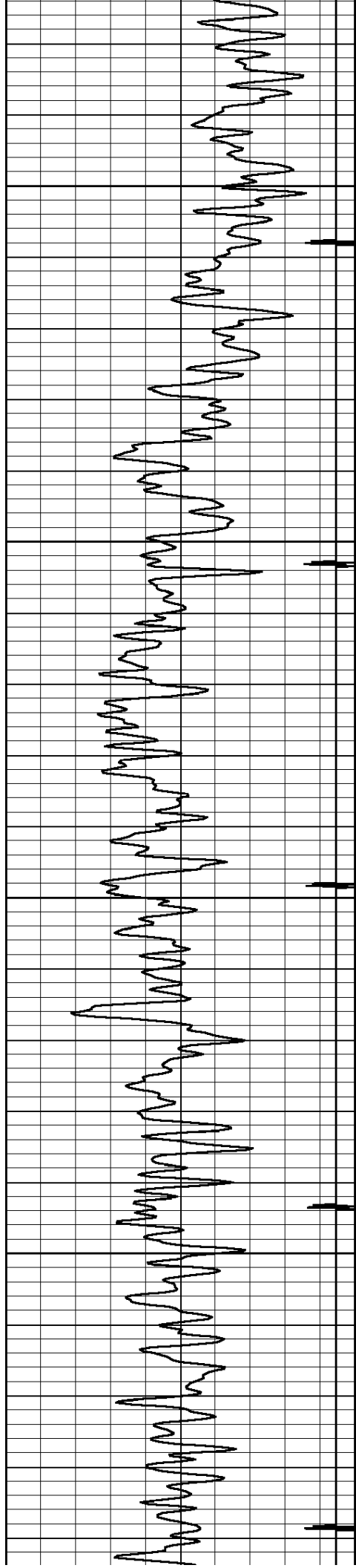




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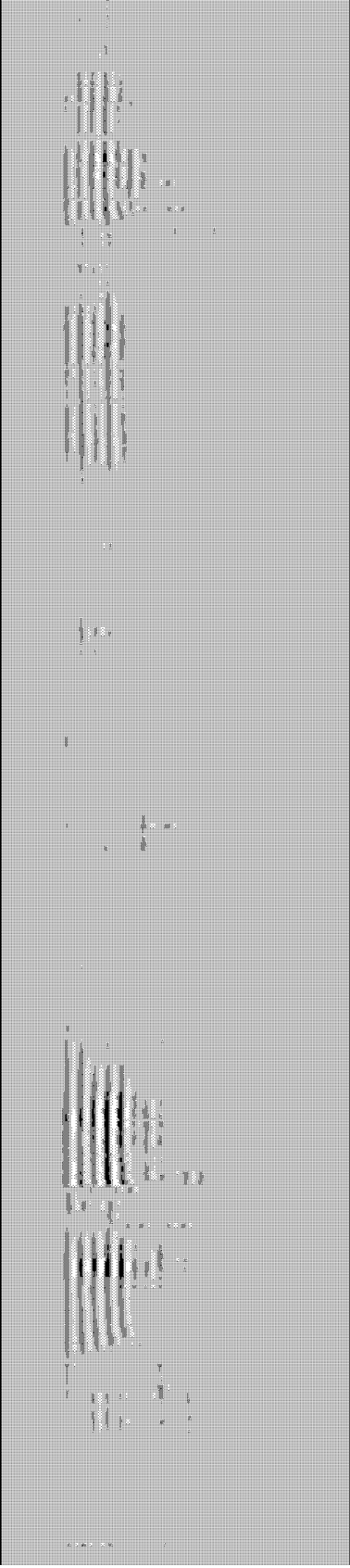
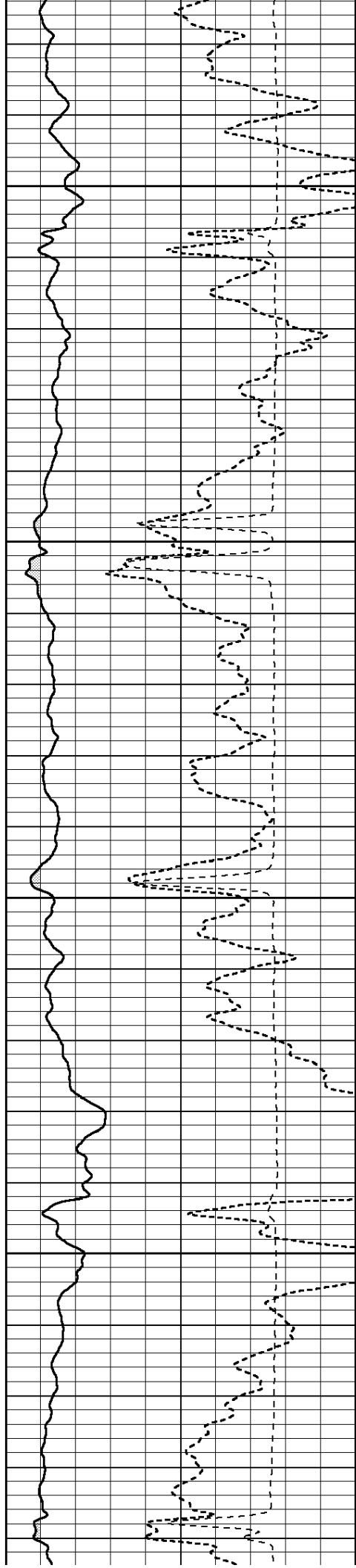
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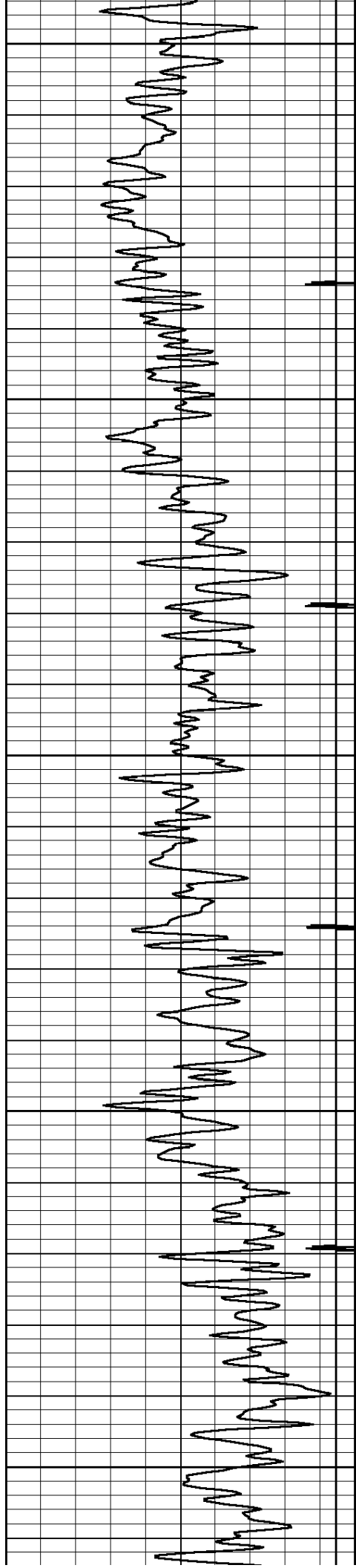


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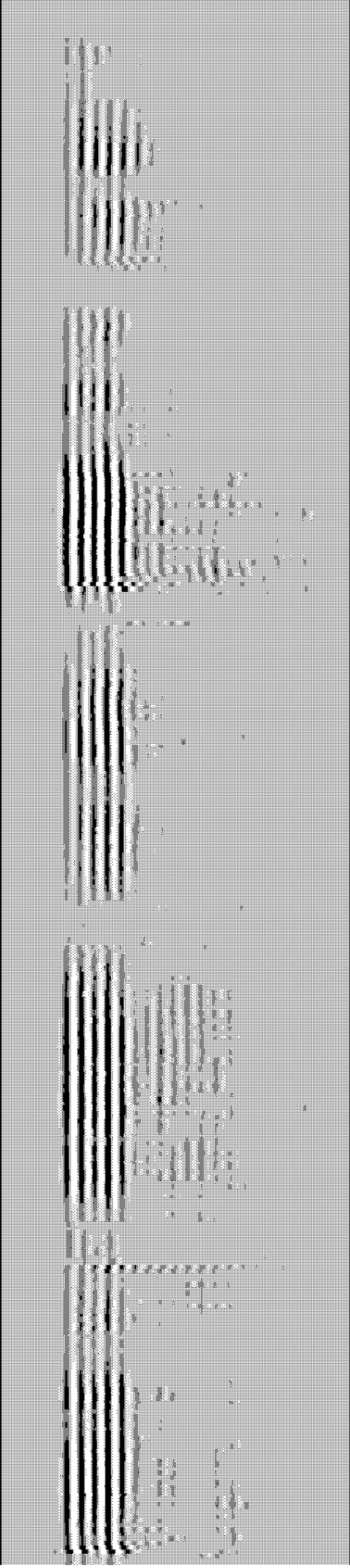
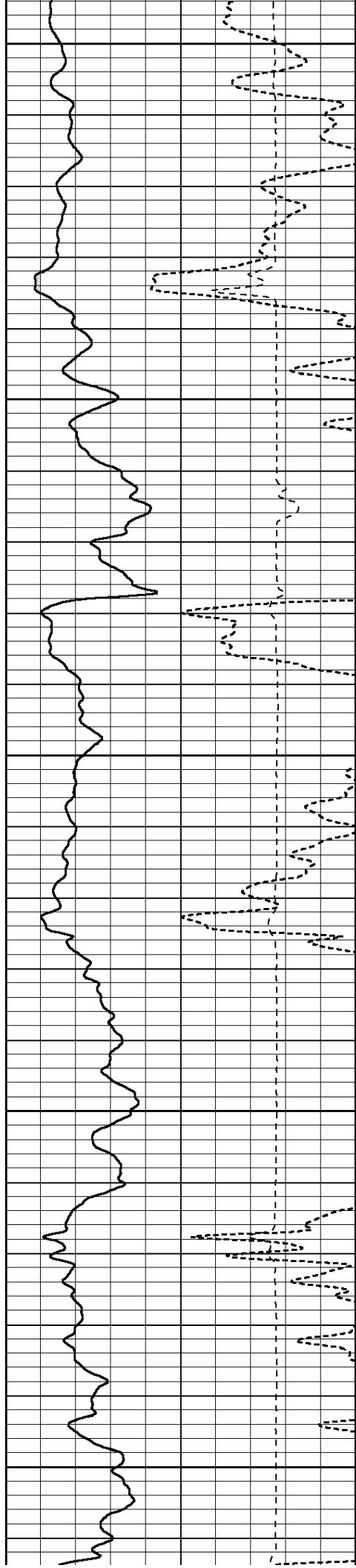


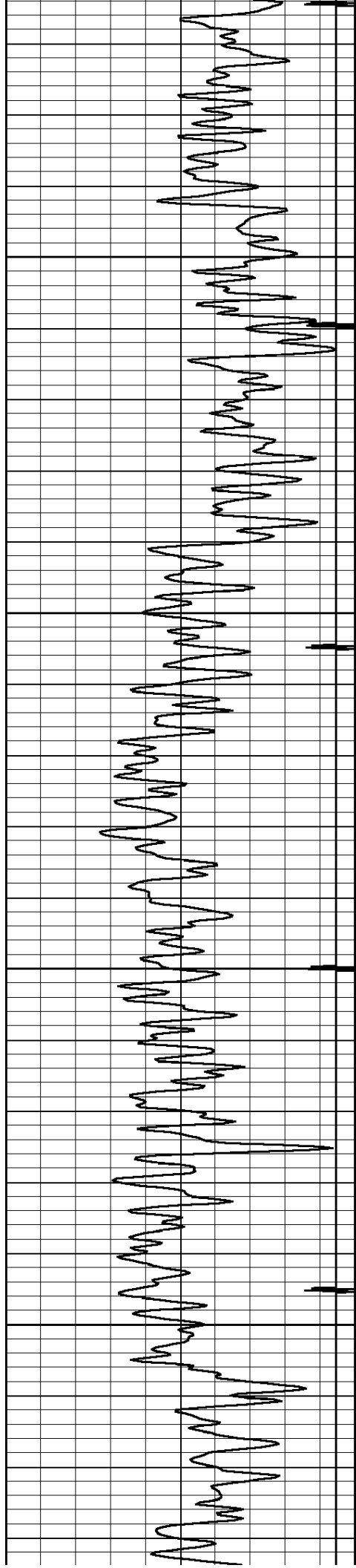


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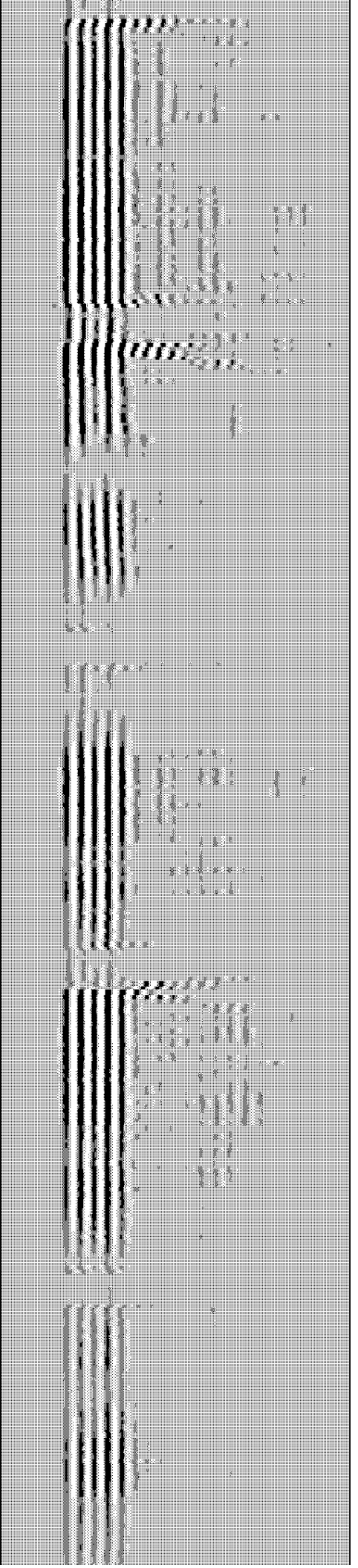
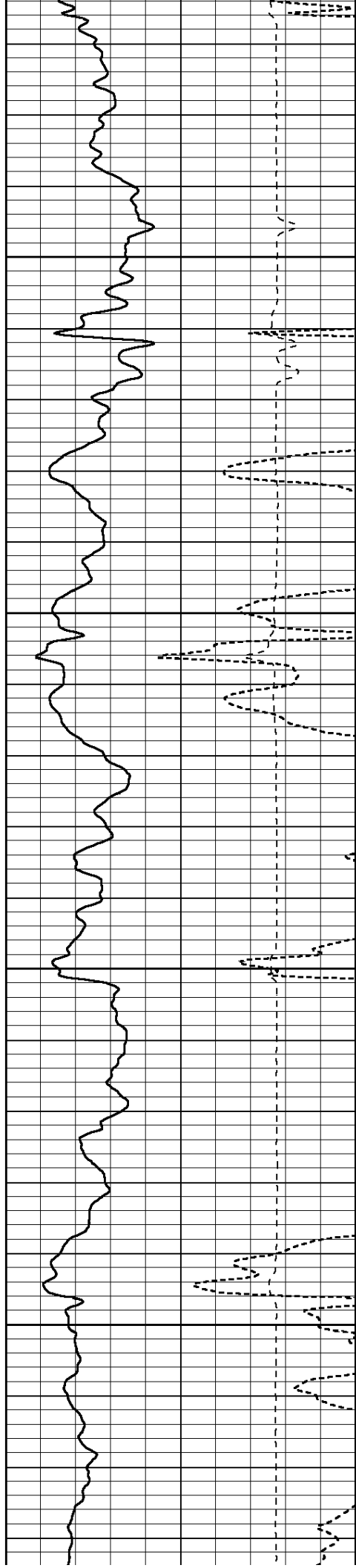
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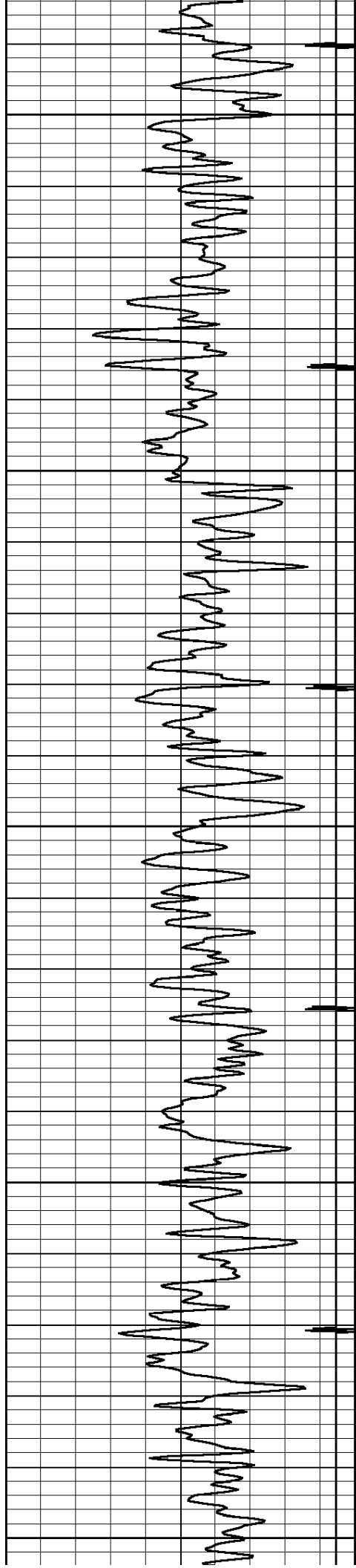


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4300

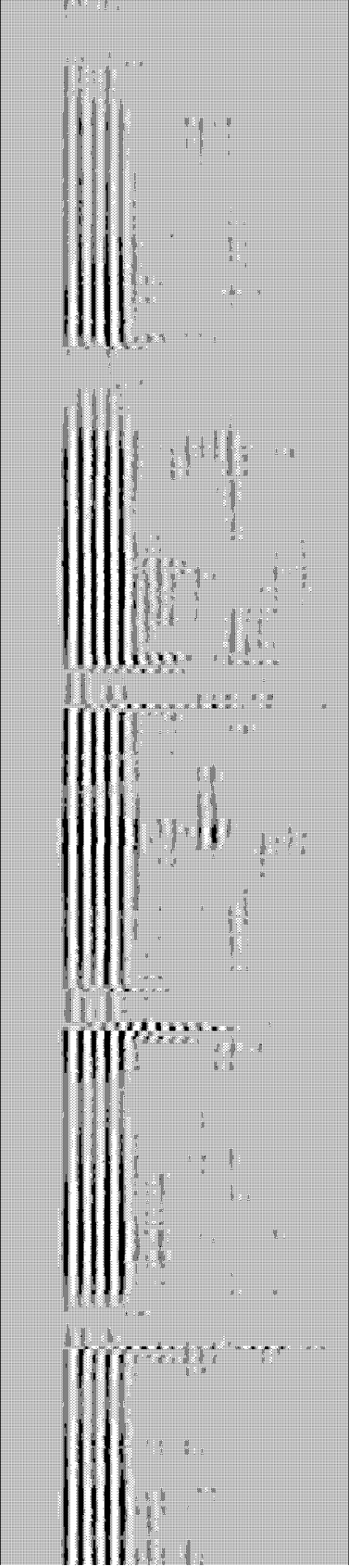
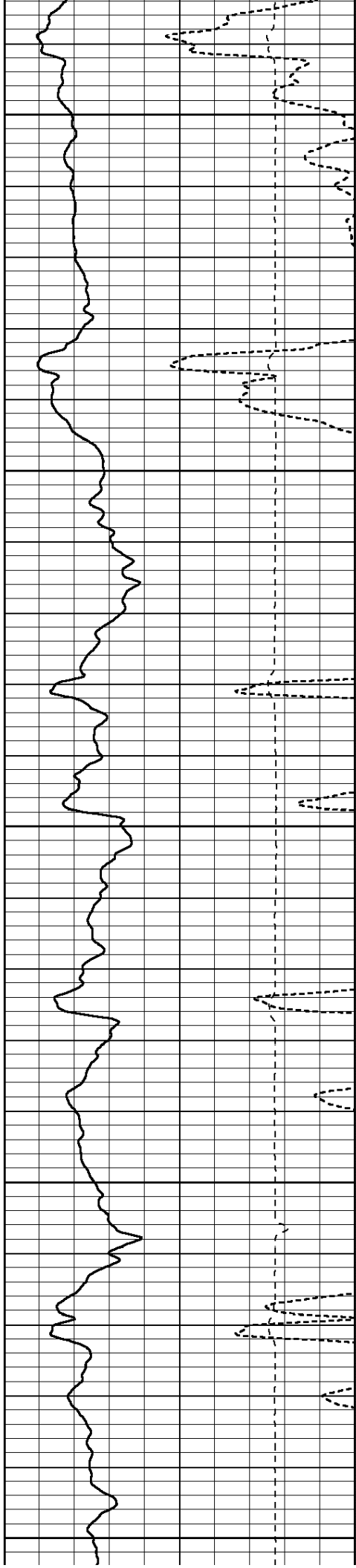


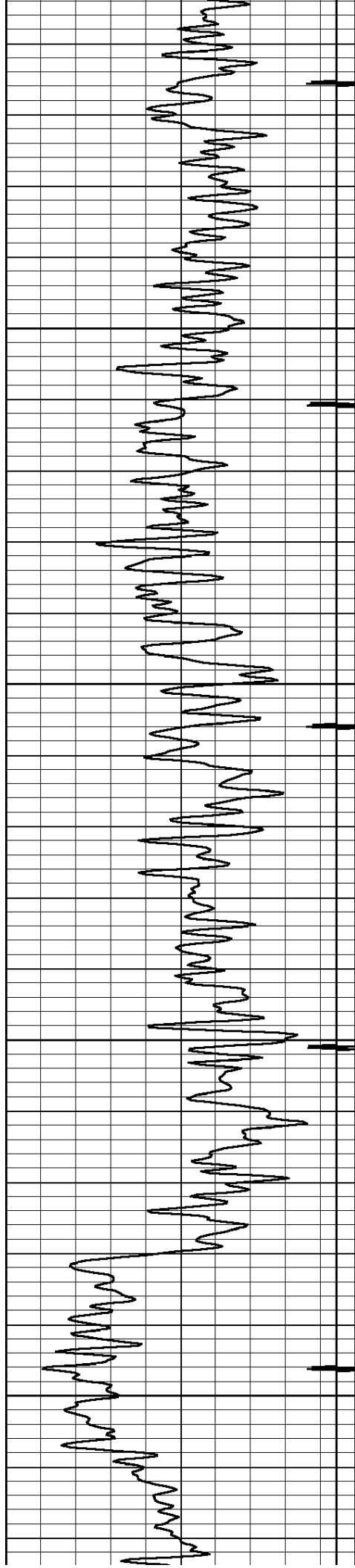




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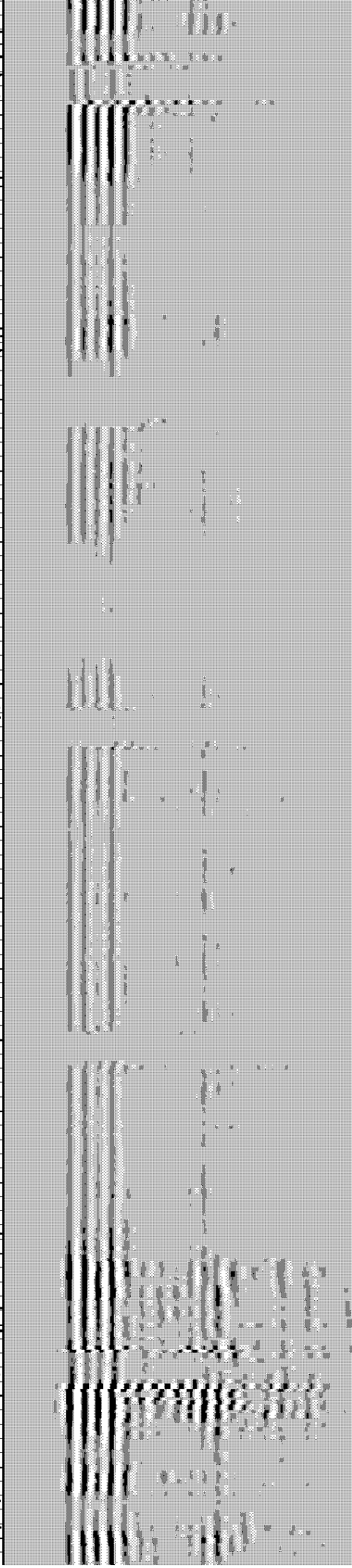
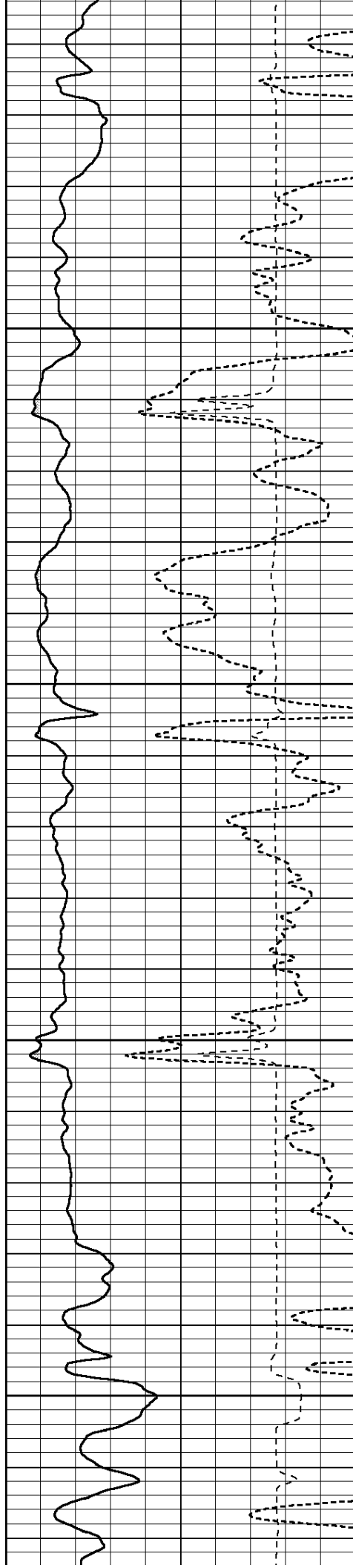
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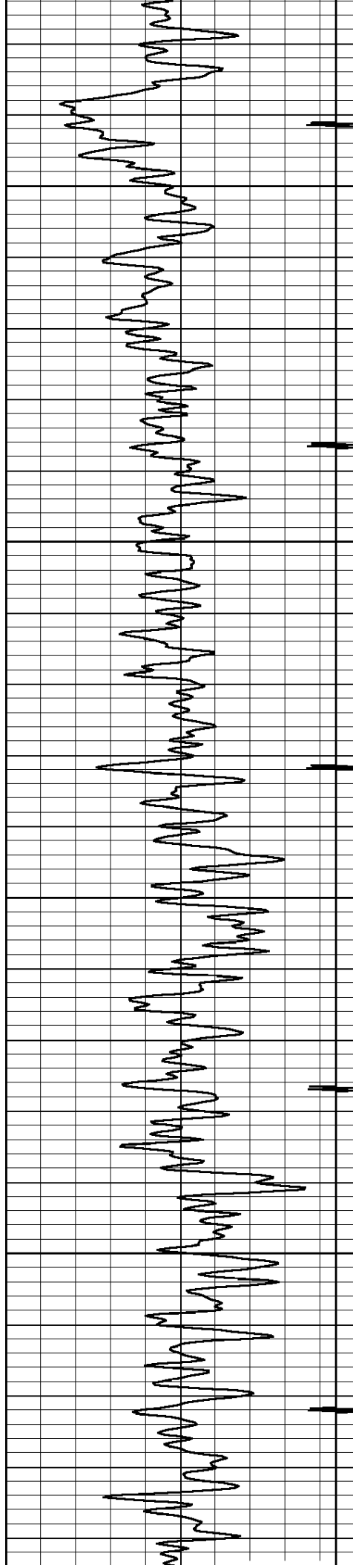




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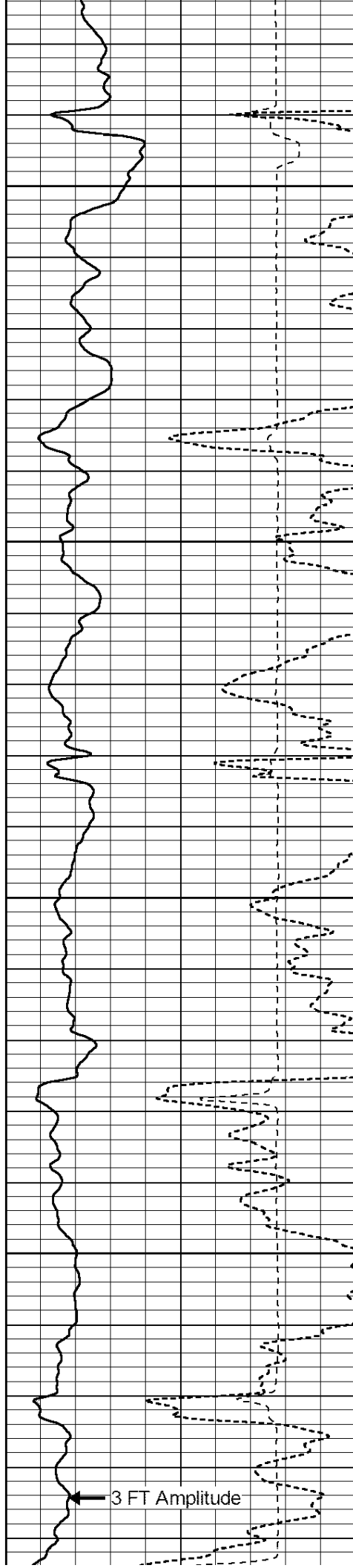
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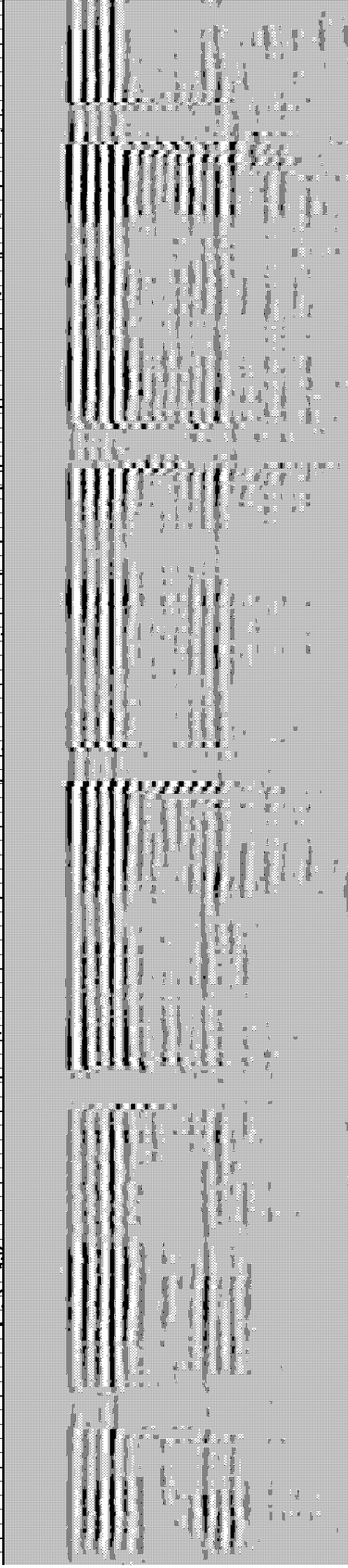


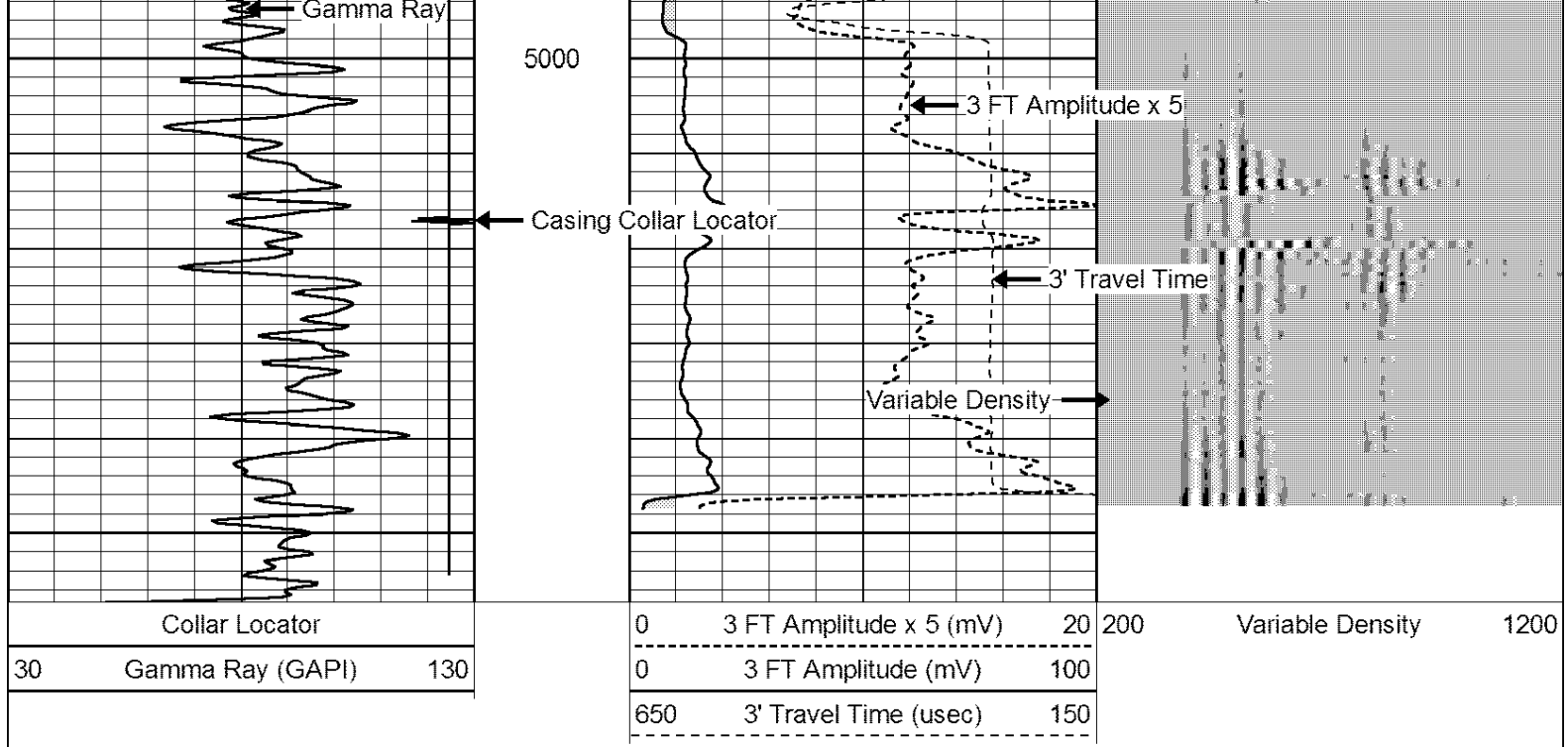
4800

4900



3 FT Amplitude



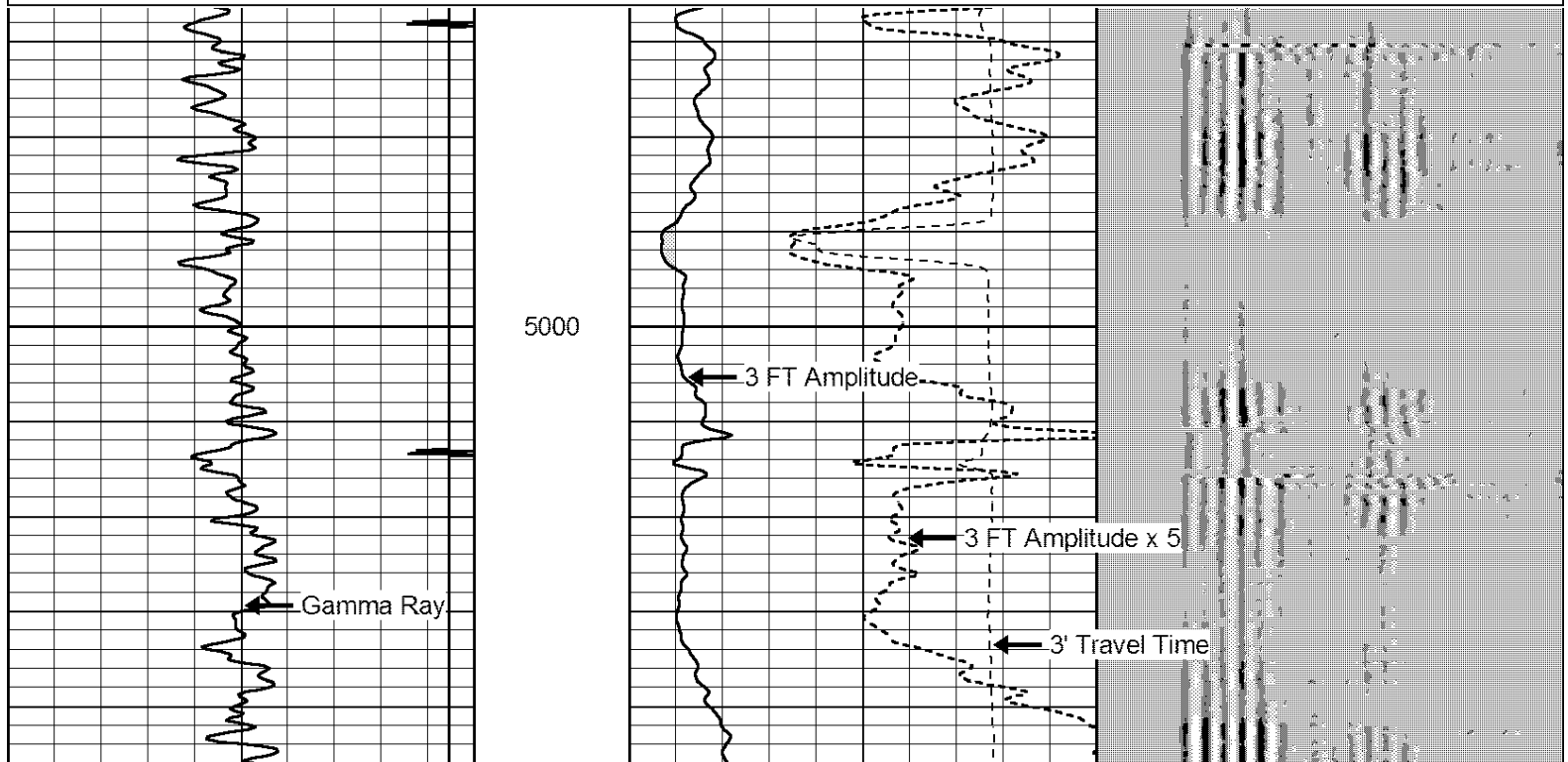


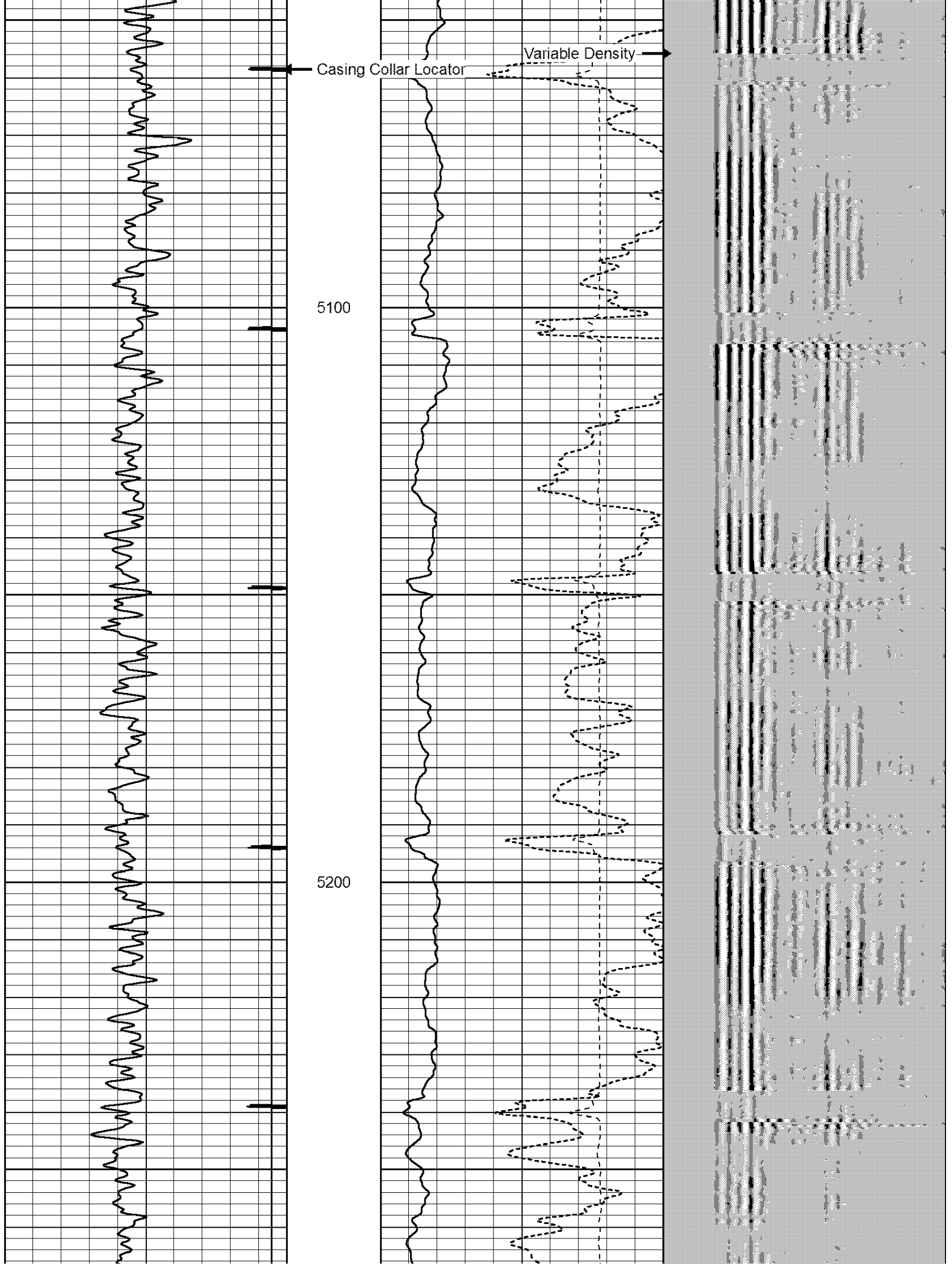
## MAIN PASS - ZERO PSI @ SURFACE

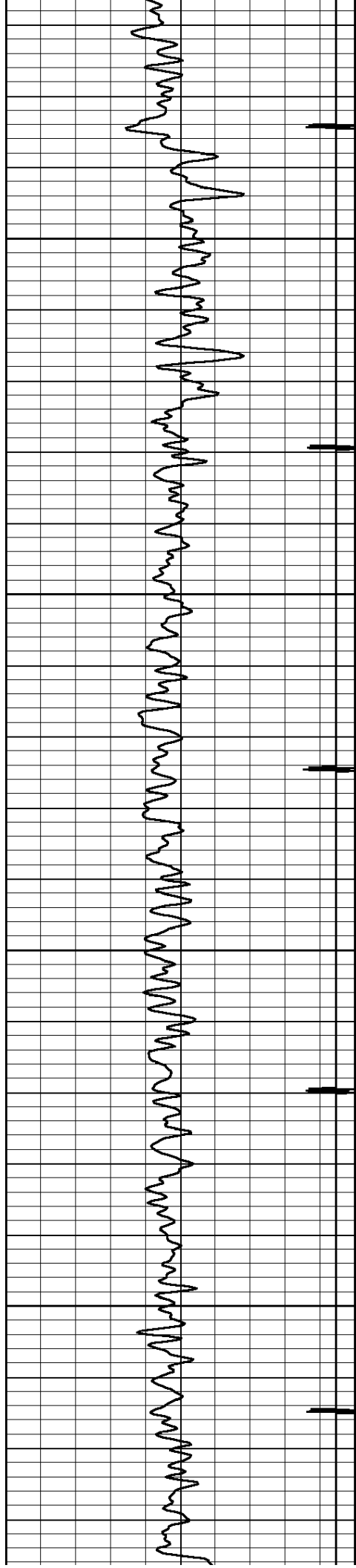
### LOG SPLIT FOR CORRELATION

Database File: sunmarke 19-28-14\_cbl.db  
 Dataset Pathname: pass5  
 Presentation Format: p\_cbl  
 Dataset Creation: Tue Mar 27 10:03:12 2012 by Log SCH 120126  
 Charted by: Depth in Feet scaled 1:240

Collar Locator	0	3 FT Amplitude x 5 (mV)	20	200	Variable Density	1200
Gamma Ray (GAPI)	180	3 FT Amplitude (mV)	100			
		3' Travel Time (usec)	150			

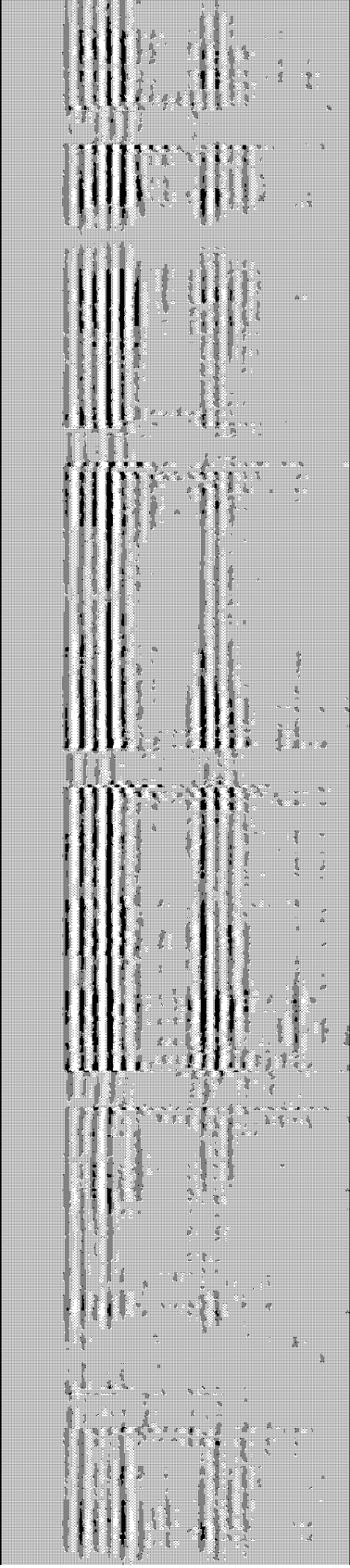
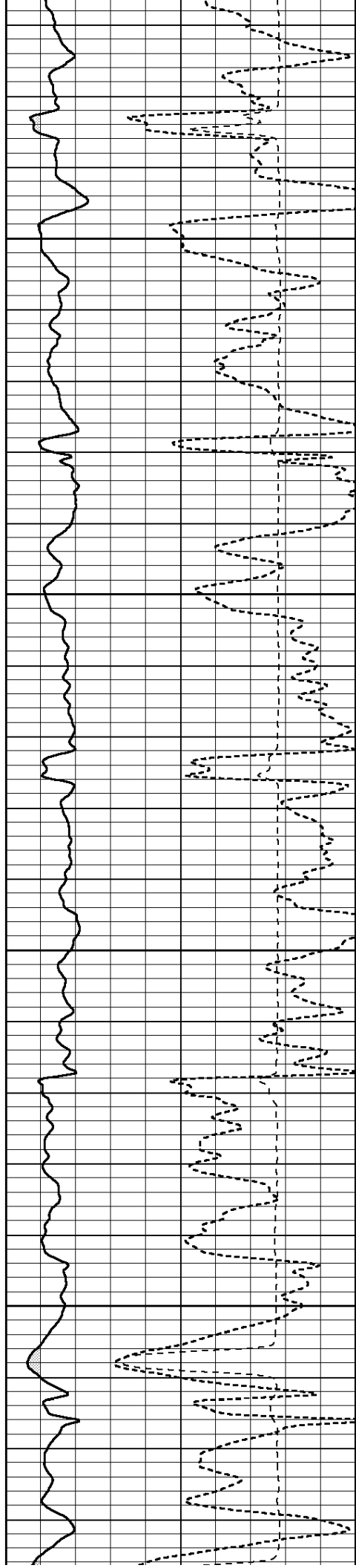




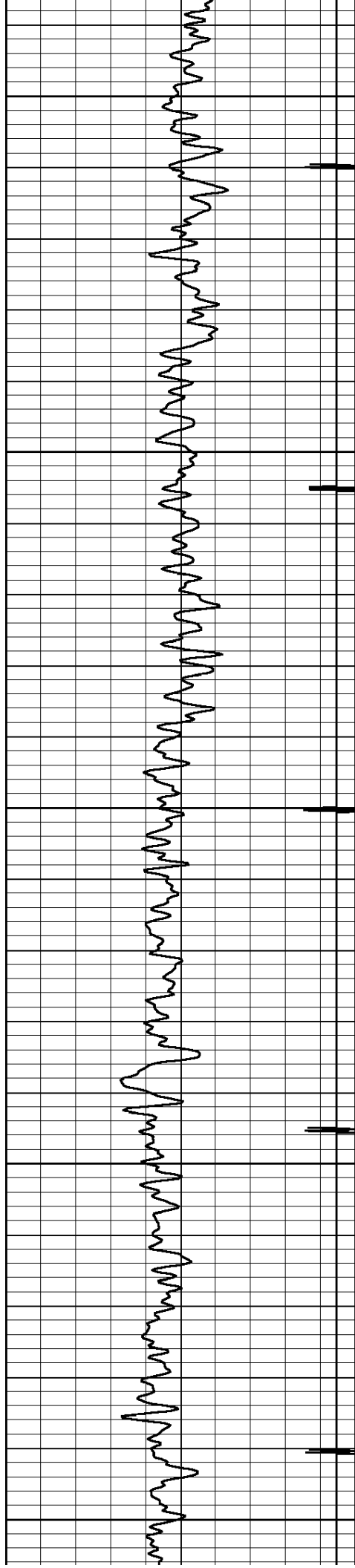


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5400



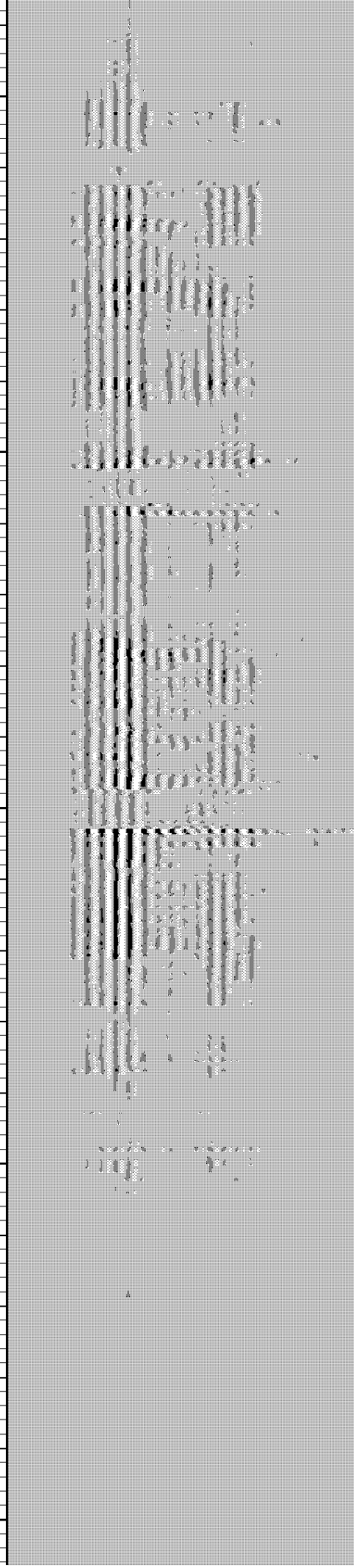
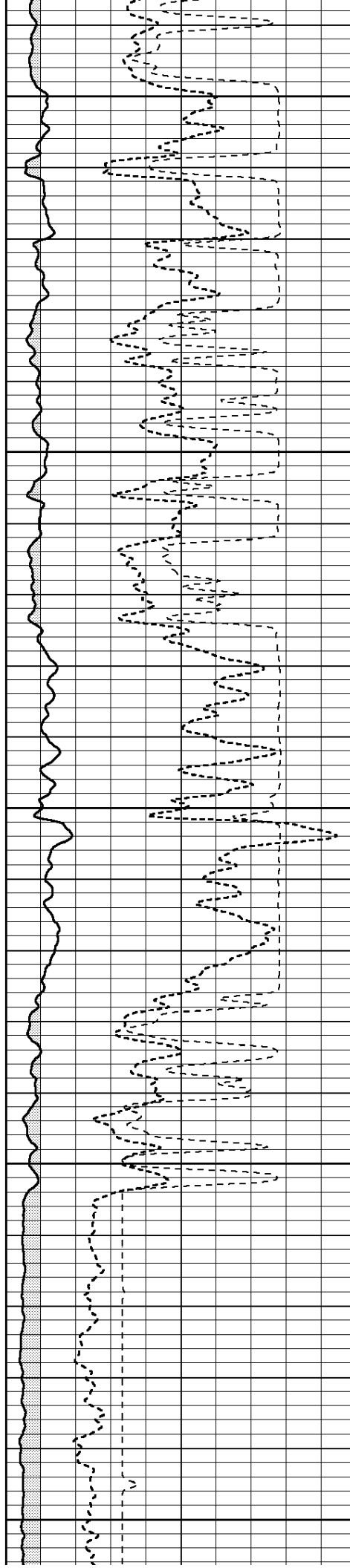


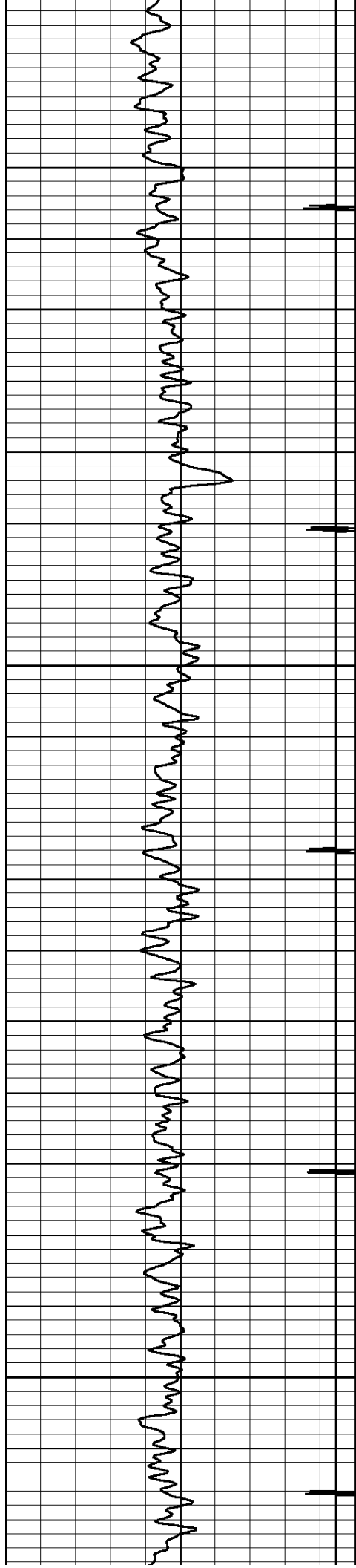


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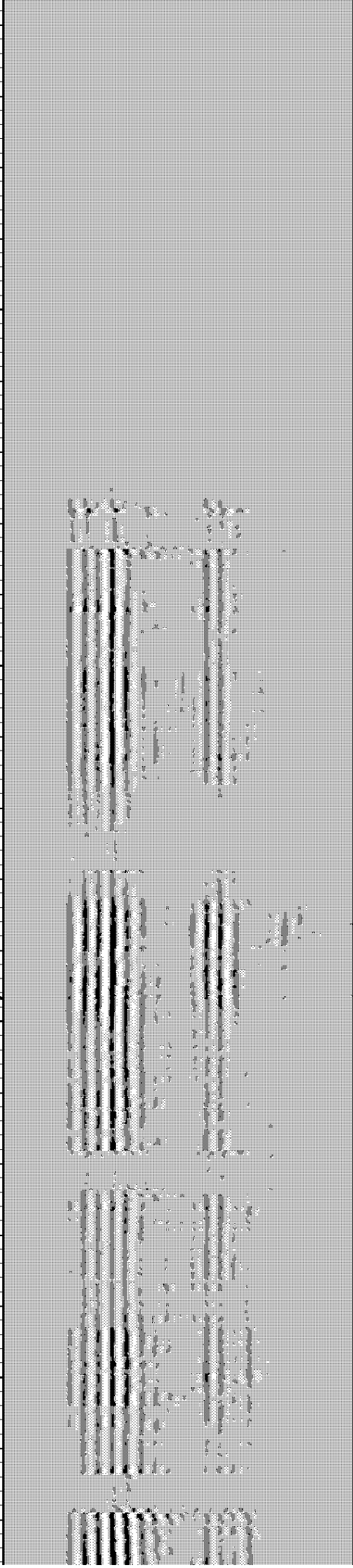
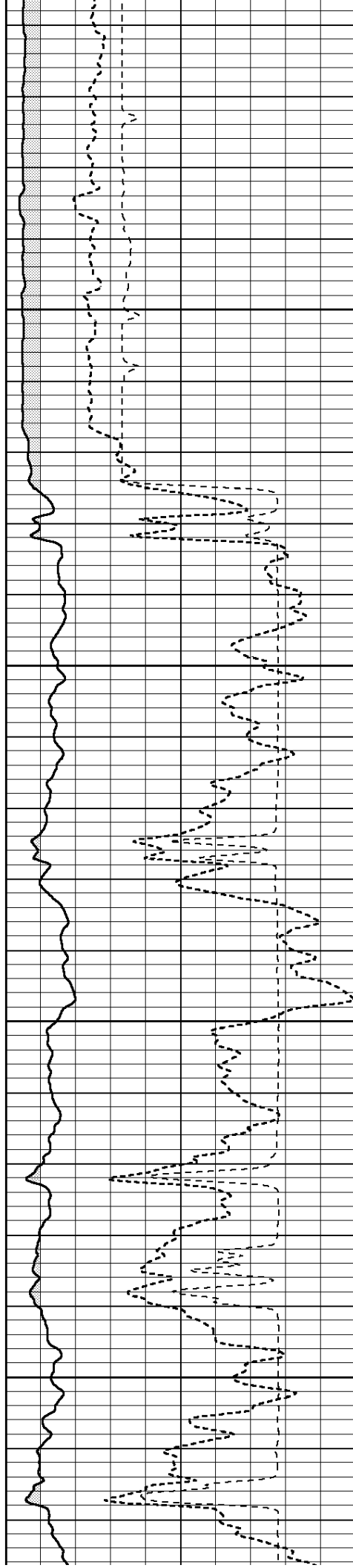
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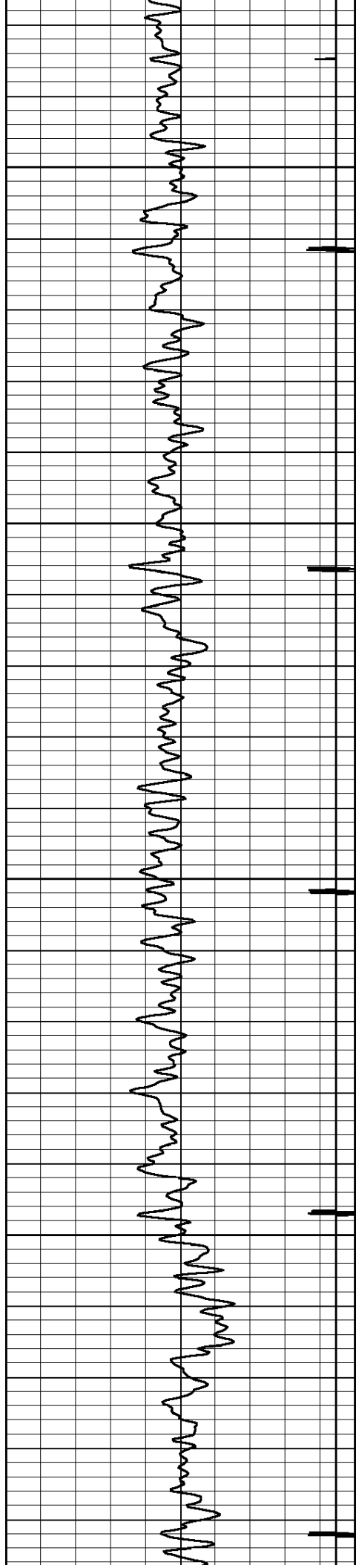


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5900

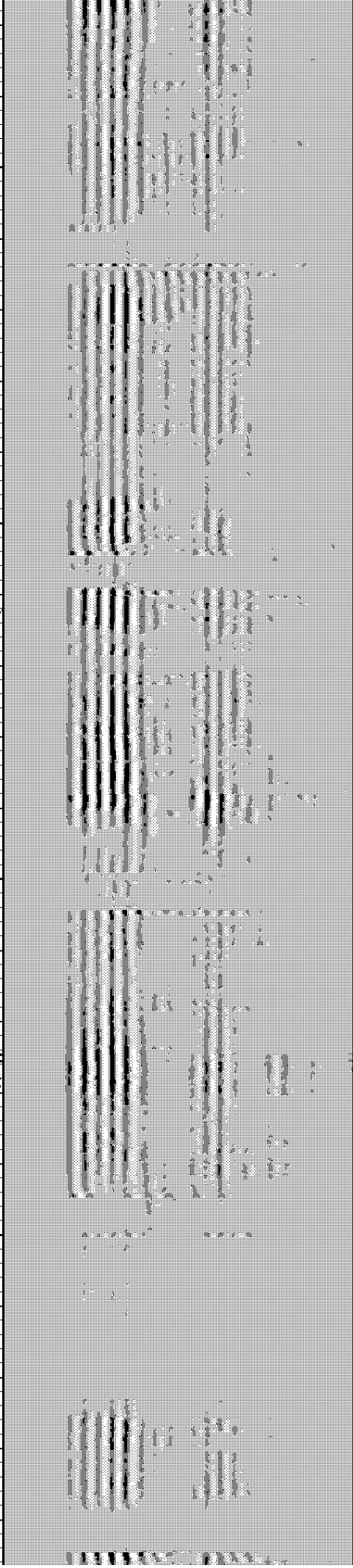
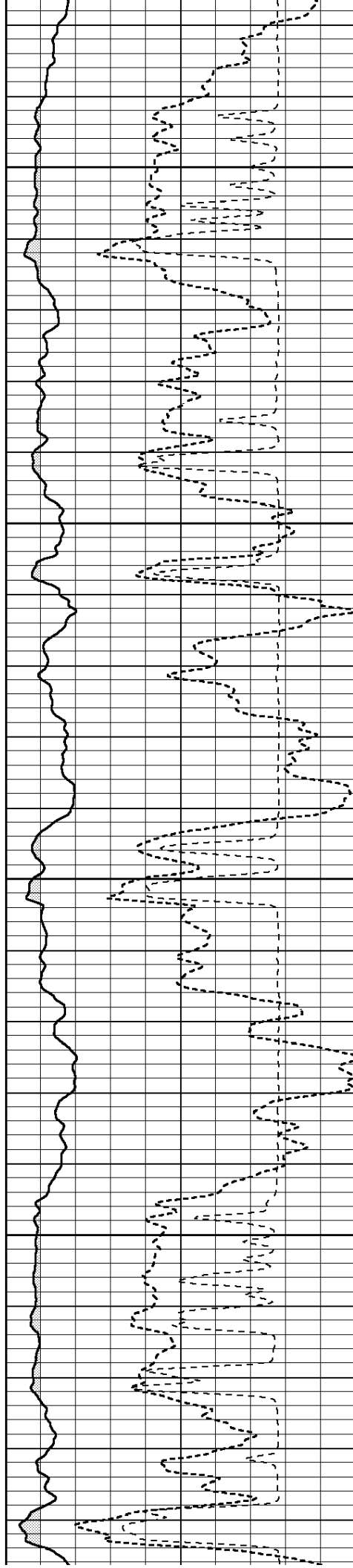


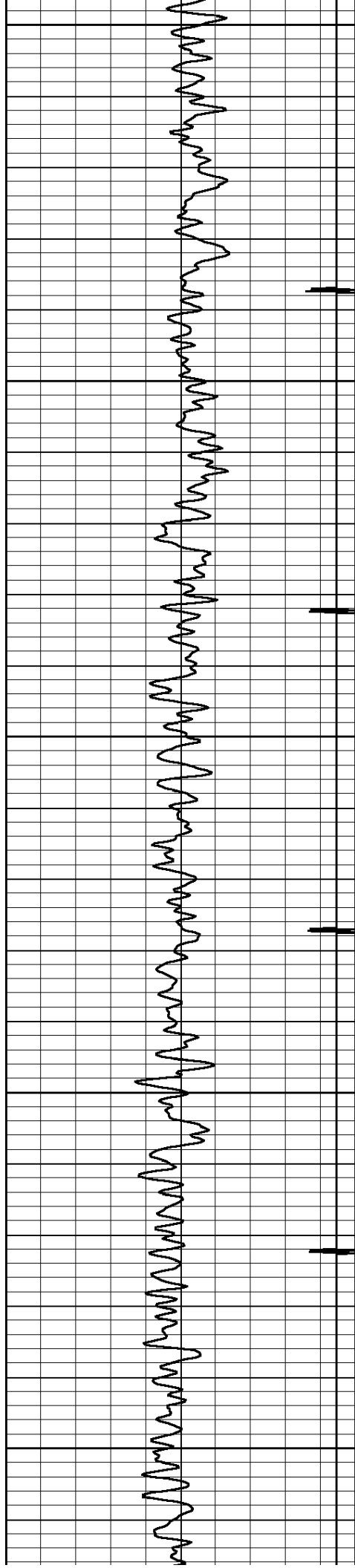




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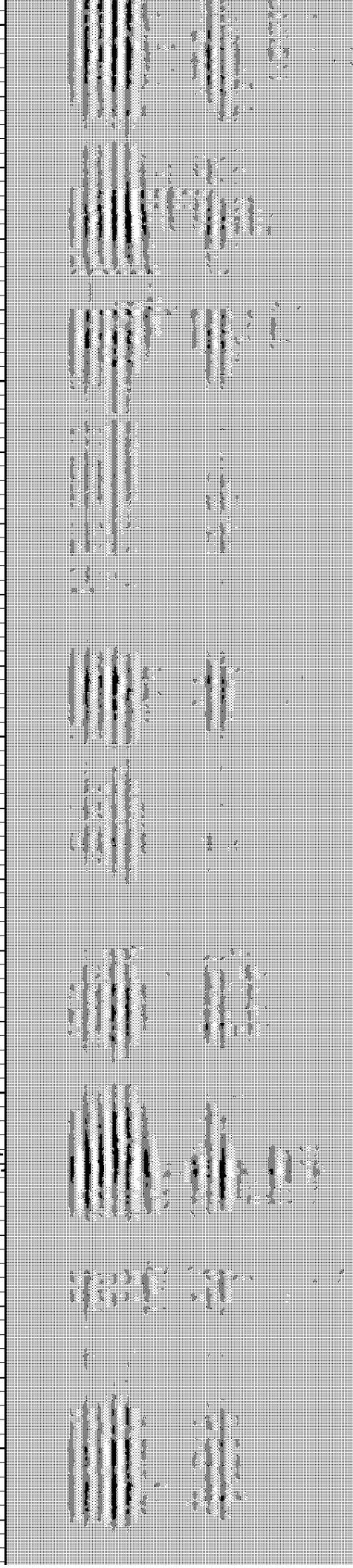
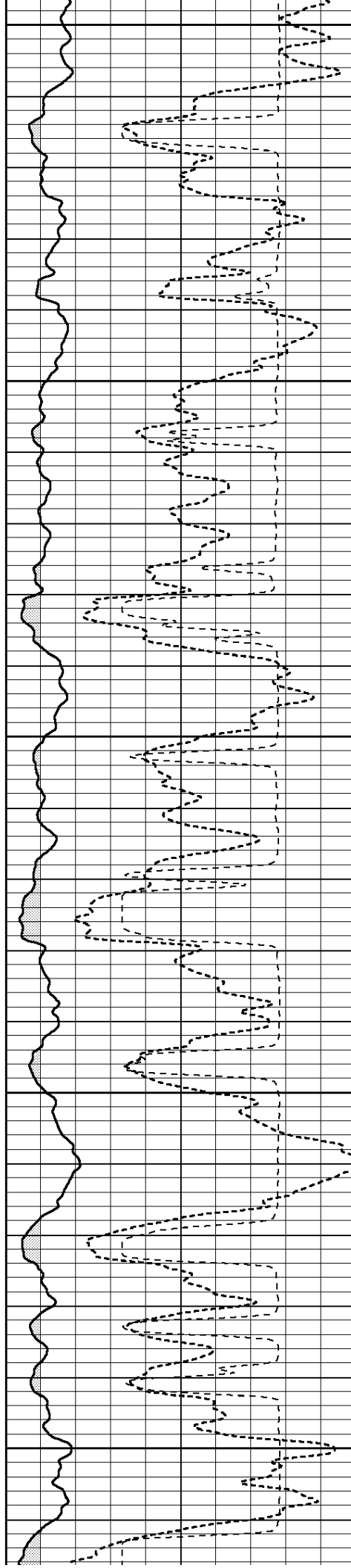
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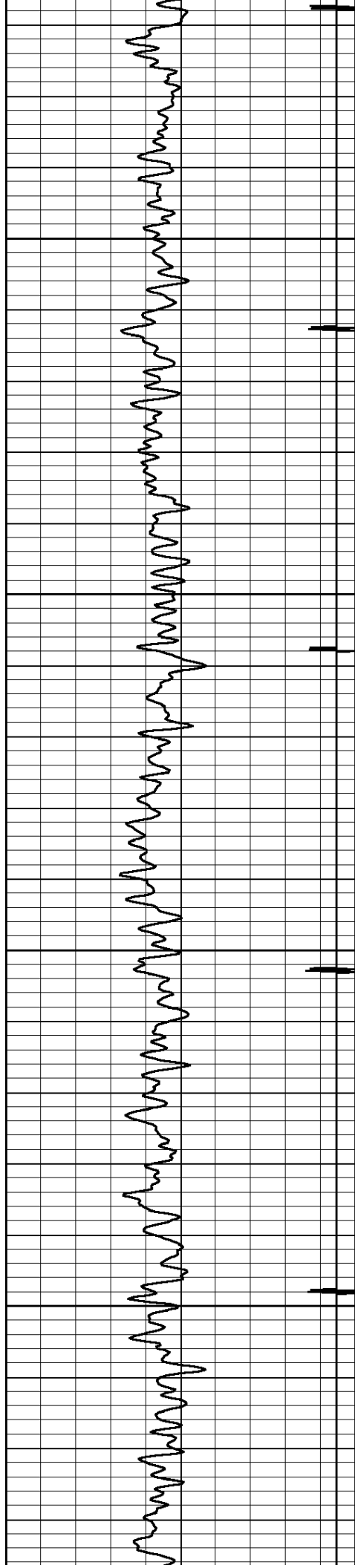




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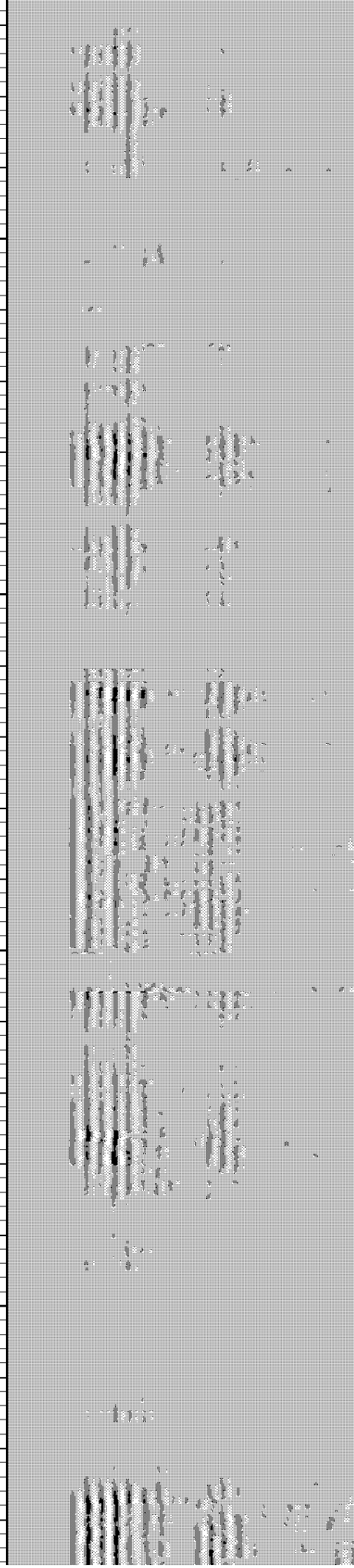
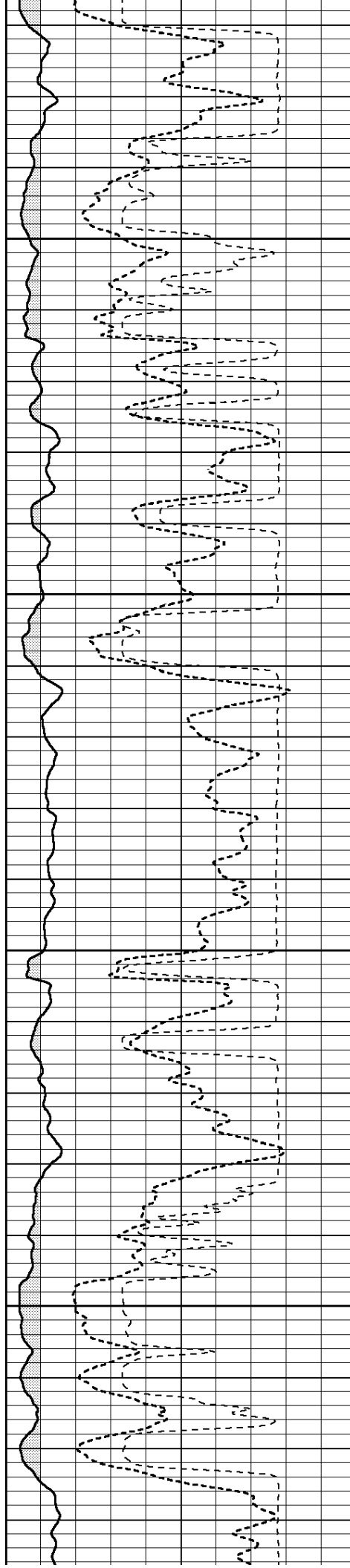
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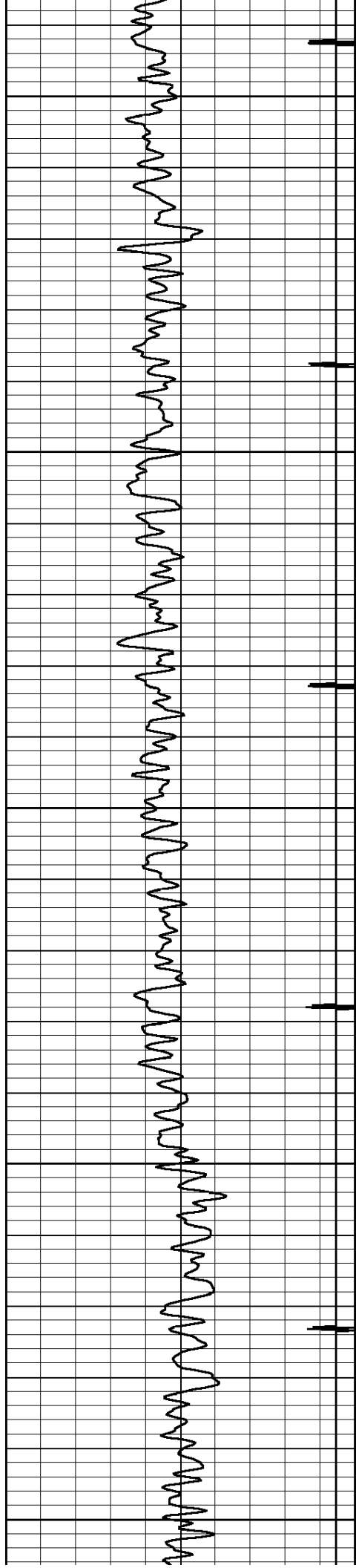




6400

6500

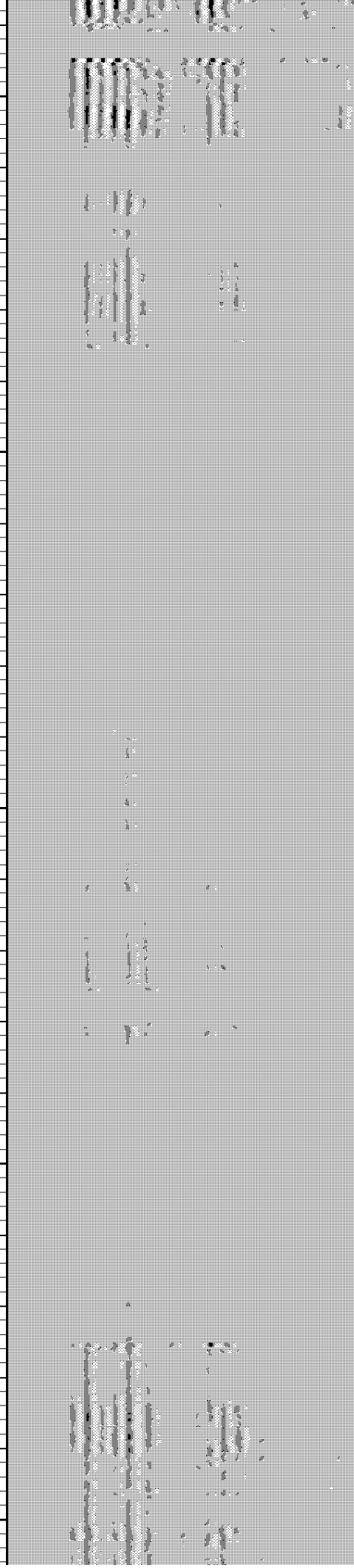
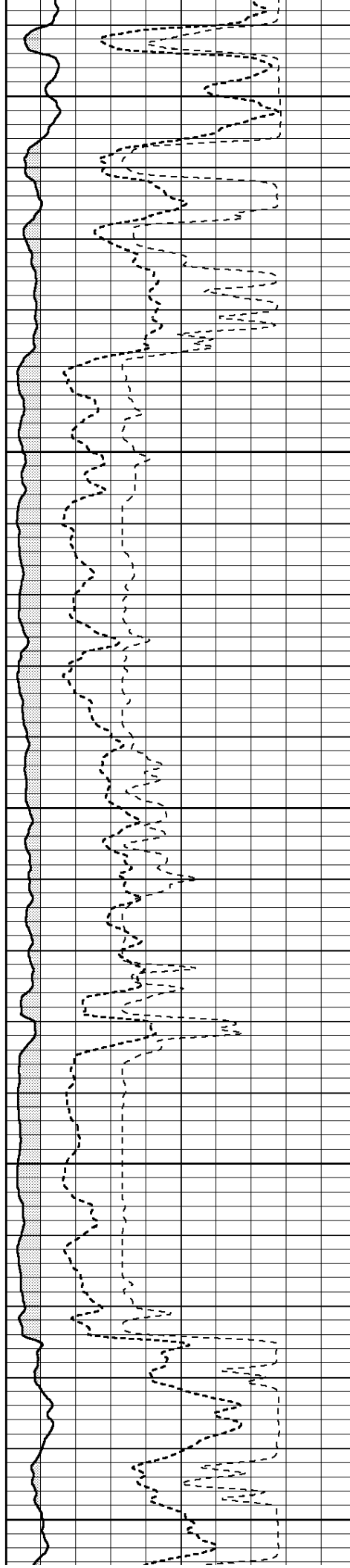


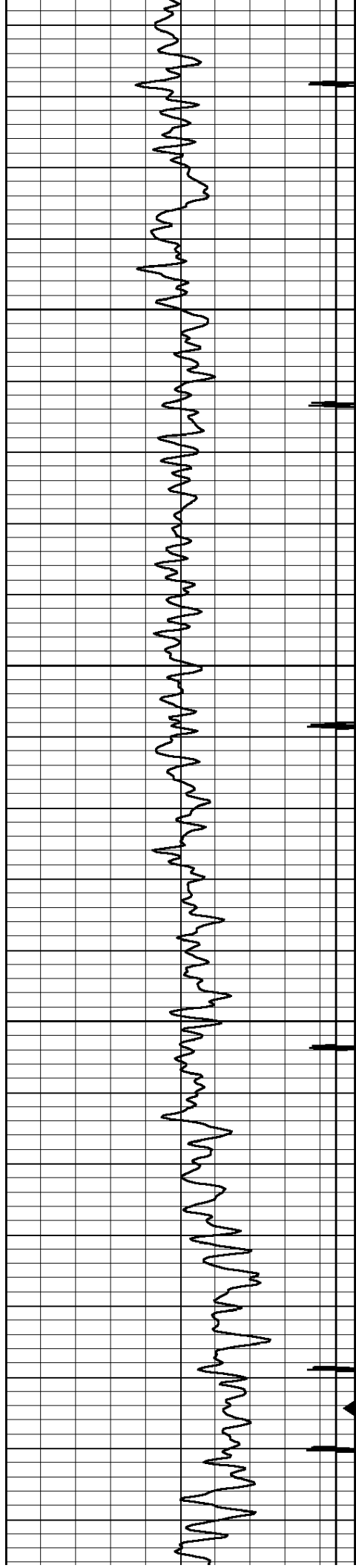


6600

6700

6800

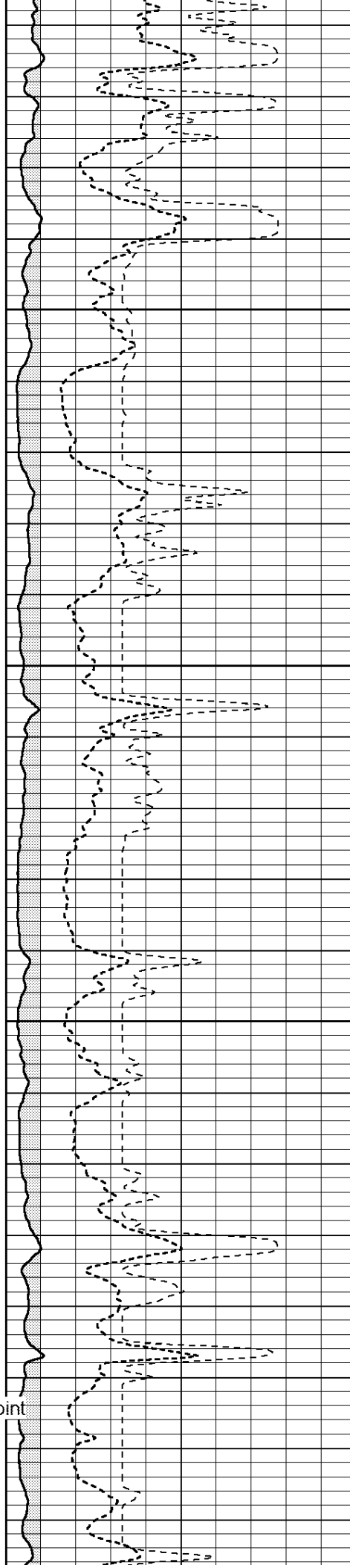


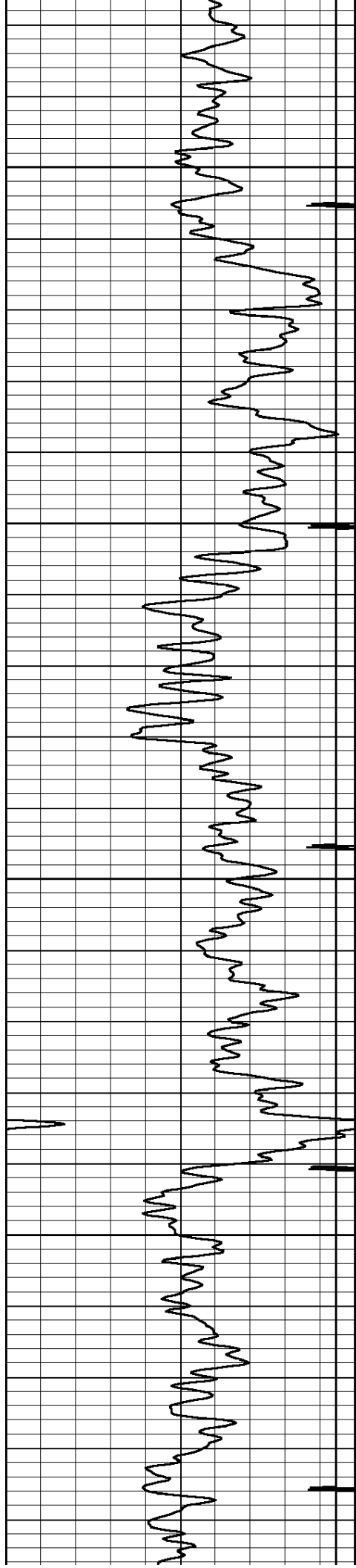


6900

7000

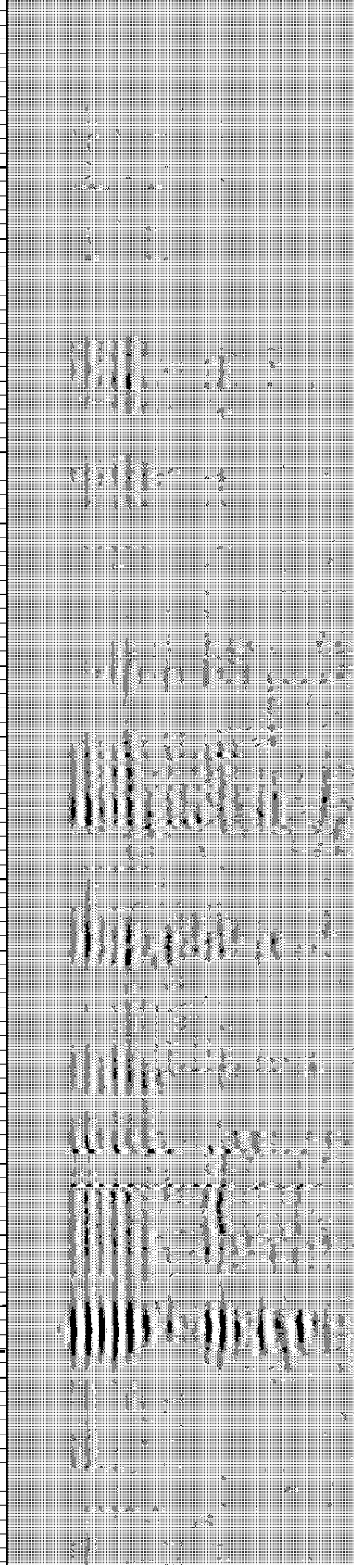
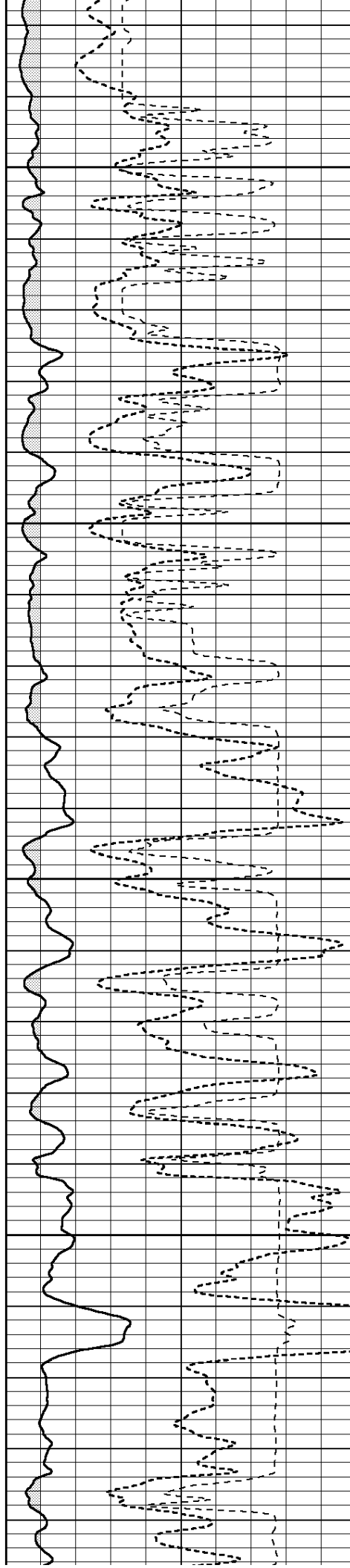
Marker Joint





7100

7200







7300

7400

Gamma Ray

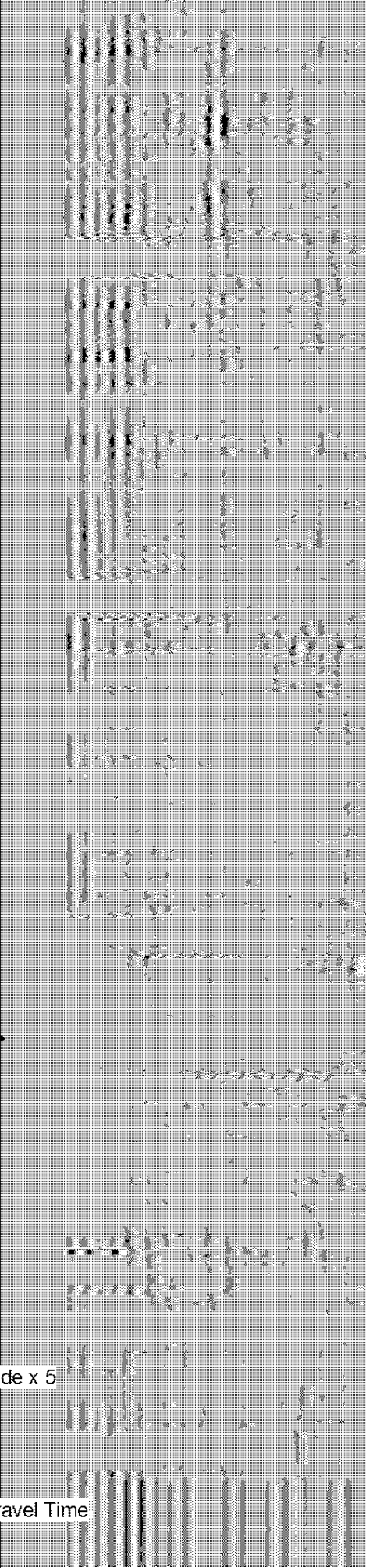
Depth of Logger 7454

Casing Collar Locator Amplitude

Variable Density

3 FT Amplitude x 5


3' Travel Time



[illegible]



	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

	Company	K. P. KAUFFMAN	
	Well	SUNMARKE 19-28-14	
	Field	WATTENBERG	
	County	WELD	
	State	COLORADO	Country US