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OIL CON. DIST. 3

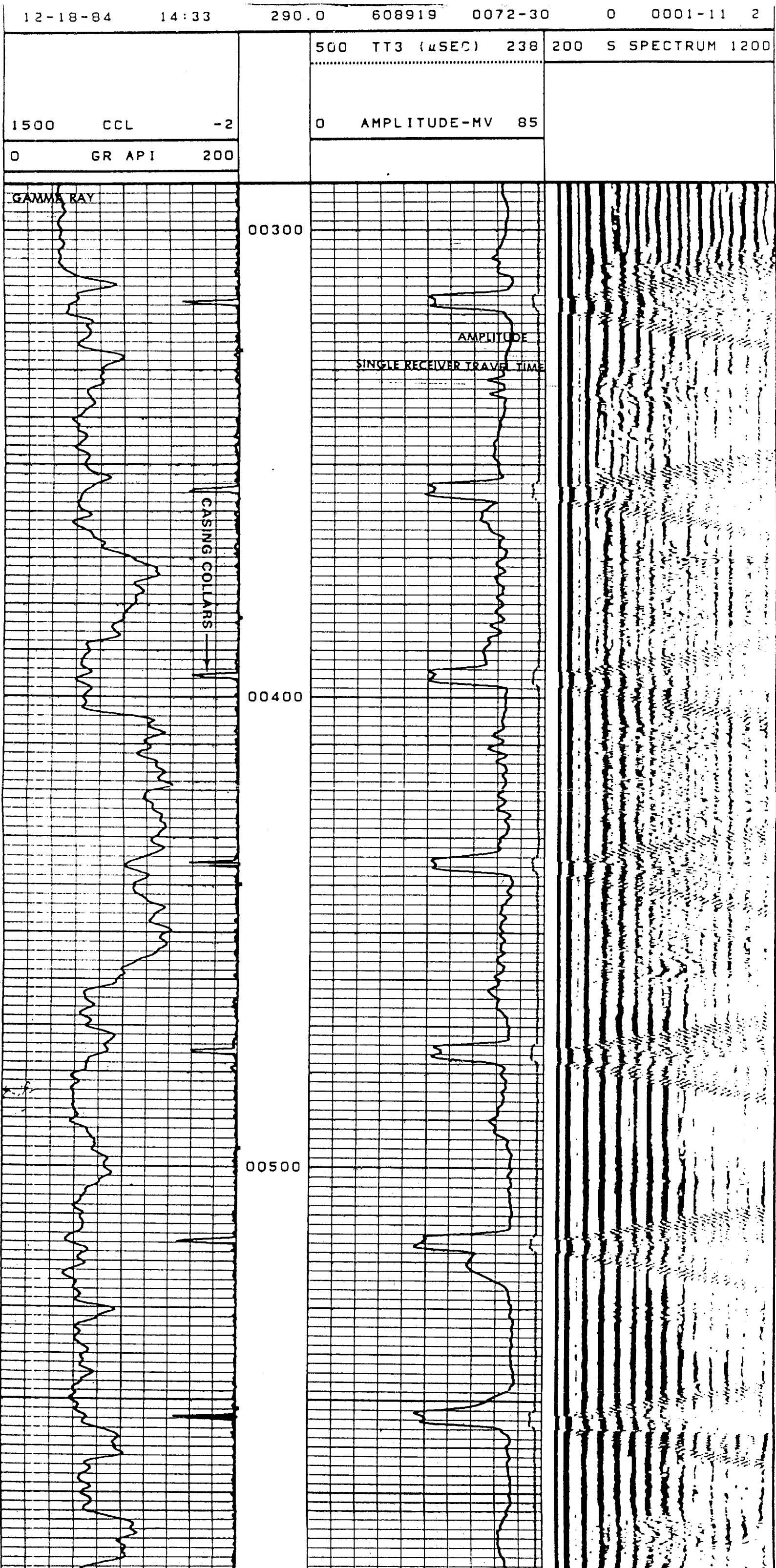
GEARHART

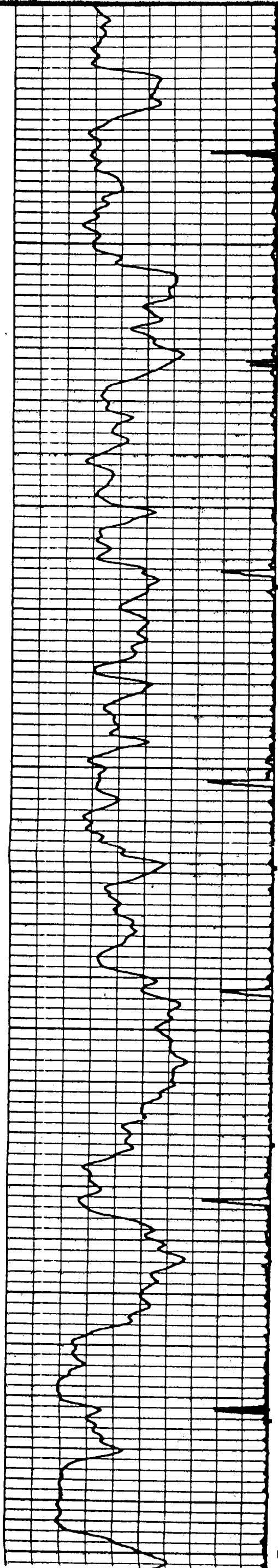
CEMENT BOND LOG

FILING NO.	COMPANY AMOCO PRODUCTION COMPANY									
	WELL JICARILLA APACHE 118A NO.12									
	FIELD GAVILLAN PICTURED CLIFFS									
	COUNTY RIO ARRIBA STATE NEW MEXICO									
	LOCATION 1190'FSL x 790'FEL									
	SEC 35	TWP 26N	RGE 3W	Other Services Jet Perforate						
Permanent Datum GROUND LEVEL Elev. 7450				Elev.: K.B. 7462						
Log Measured from K.B. 12 Ft. Above Permanent Datum				D.F. 7461						
Drilling Measured from K.B.				G.L. 7450						
Date	12-18-84	Type Fluid in Hole	H ₂ O							
Run No.	ONE	Dens.								
Depth-Driller	4090	Max. Rec. Temp.								
Depth-Logger	4089	Est. Cement Top								
Btm. Log Interval	4082	Equip. Location	6089/7541	29-047						
Top Log Interval	300	Recorded By	J.W. Norton							
Open Hole Size		Witnessed By	Mr. Gregg Nelson							
CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom				
Surface String										
Prot. String										
Prod. String	4 1/2	11.6	-----	Surface	4090'					
Liner										
PRIMARY CEMENTING DATA										
STRING	Surface	Protection	Production	Liner						
Vol. of Cement										
Type of Cement										
Additive										
Additive by %										
Retarder										
Retarder by %										
Wt. of Slurry										
Water Loss										
Drill. Mud Type										
Drilling Mud Wt.										

PRIMARY CEMENTING PROCEDURE										
BOND EQUIPMENT DATA										
Tool No. 463-S										
Tool Type Combo										
Tool Size 3.25"										
Centralizer: Type Rubber										
No. 2										
Position Top & Bottom										
Transmitter to Receiver Spacing										
Amplitude										
Seismic Spectrum										
Travel Time										
Finish Cementing Operation										
Start Cement Bond Log										
Finish Cement Bond Log										
GAMMA RAY EQUIPMENT & LOGGING DATA										
Tool No. 463-S										
Combo										
From 4089										
To 300										
Speed FPM										
38										
T.C. Sec.										
Bkg. Cps.										
Cal. Cps.										
Sens.										
Zero Div. L or R										
Api Per Log Div.										
Detector Model No. 463										
Type Scint.										
Length 6"										
Distance to N. Source N/A										
REMARKS:										
REPEAT IS 6' DEEP TO OPEN HOLE LOG-WELEX										
MAIN LOG ON DEPTH.										
NOTICE: Gearhart Industries, Inc. cannot and does not guarantee the accuracy or correctness of any log data or of any interpretation thereof and shall not be liable or responsible for any loss, cost, damage or expense incurred or sustained by Customer resulting from any log data or interpretation made by Gearhart Industries, Inc. or any of its agents, servants or employees. Neither log data nor interpretation thereof should be relied upon as the sole basis for any drilling, completion, well treatment or production decision or any other procedure. Unless there is presently in effect a master or other specific or general contract intended to extend and apply hereto, this Log is provided in accordance with Gearhart Industries, Inc.'s General Terms and Conditions as set out in its current price schedule.										

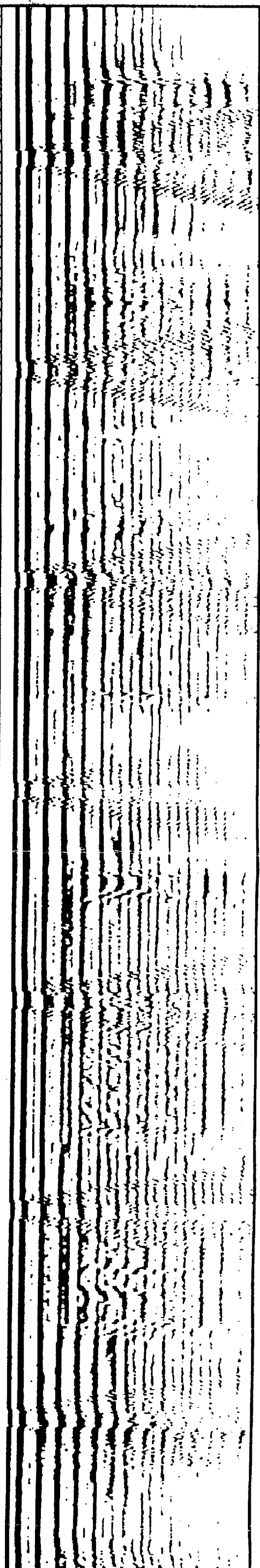
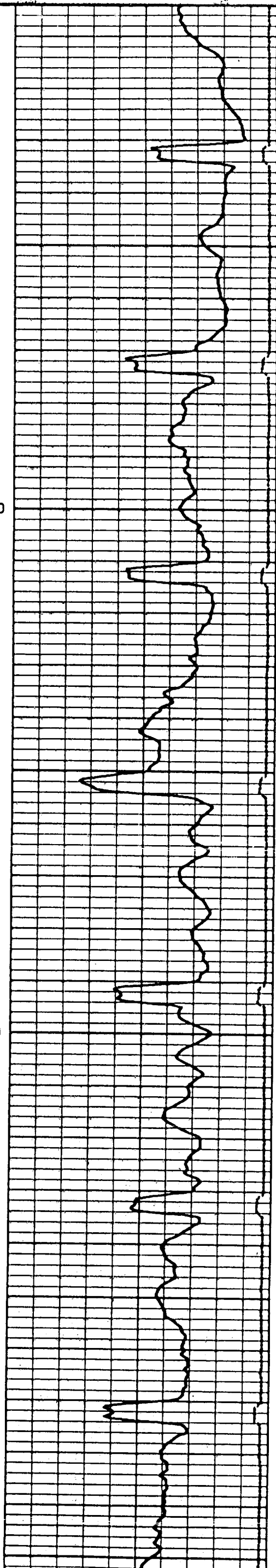
GAMMA-RAY	DEPTH	AMPLITUDE	SEISMIC SPECTRUM
GAMMA RAY API UNITS	0	AMPLITUDE MILLIVOLTS	SEISMIC SPECTRUM RECORDING
200	0	85	
400	200	538	
COLLAR LOG		TRAVEL TIME MICRO SECONDS / FT.	MICRO SECONDS
		200	1200

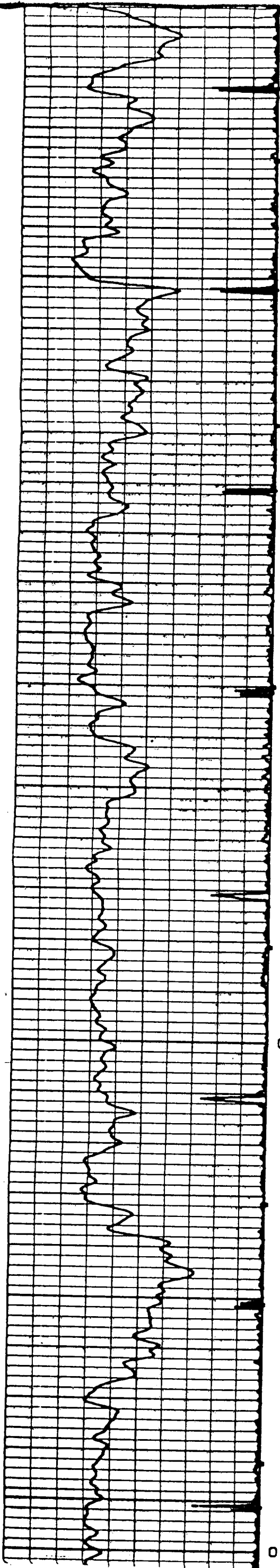




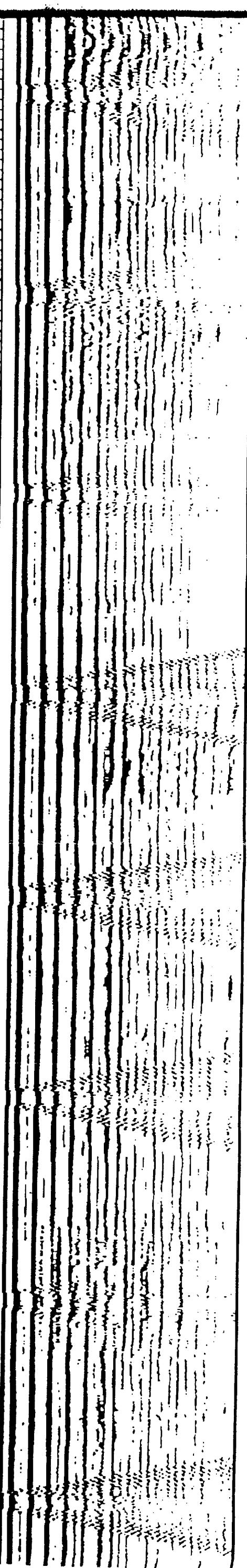
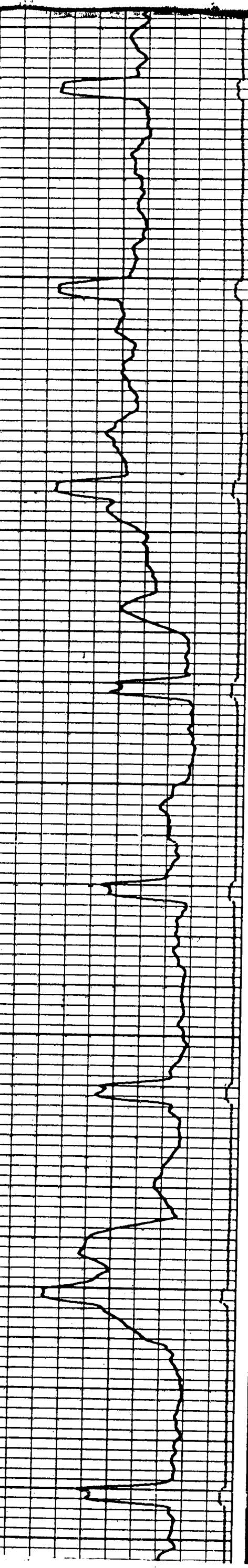
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01100
01200

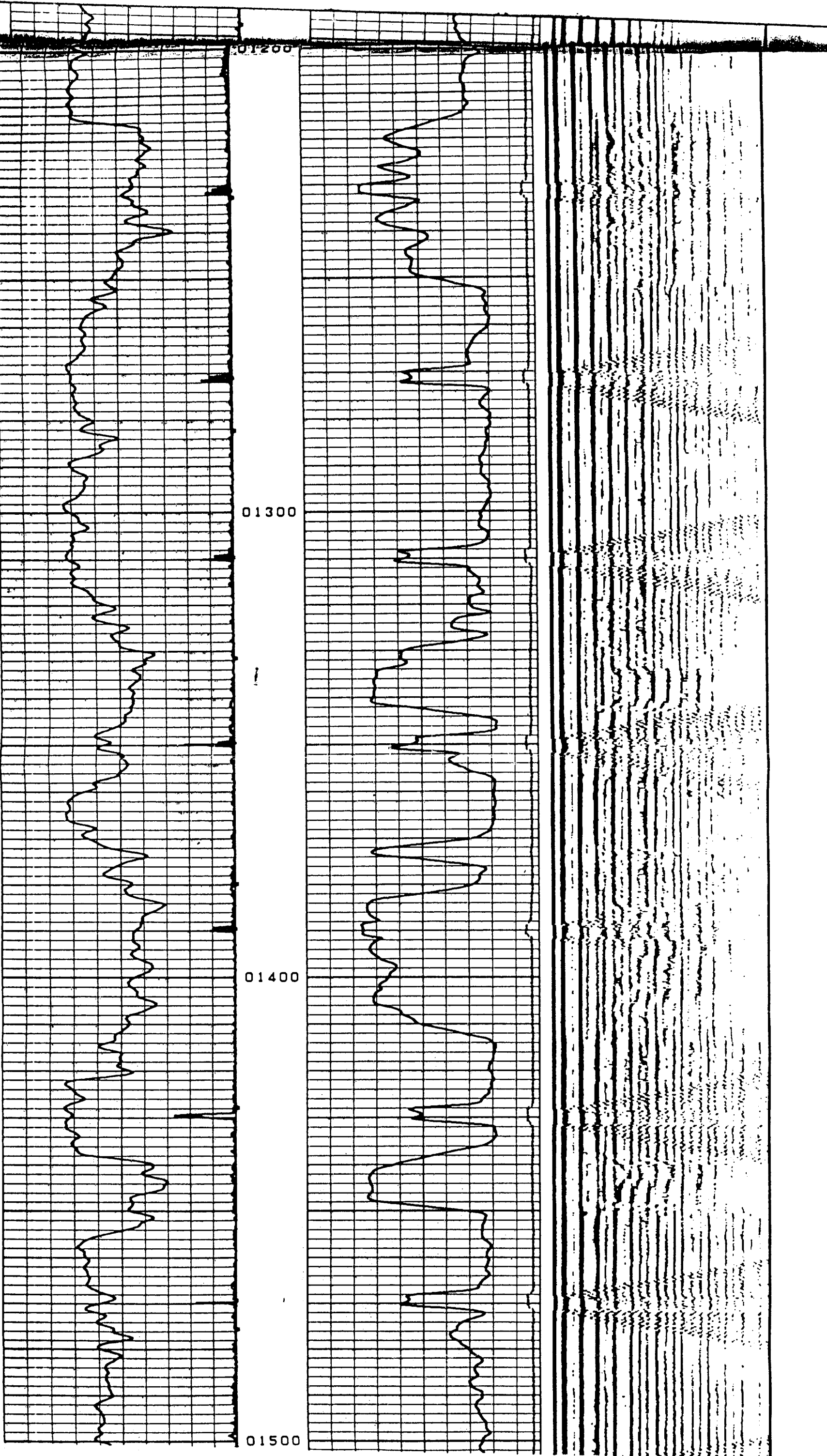


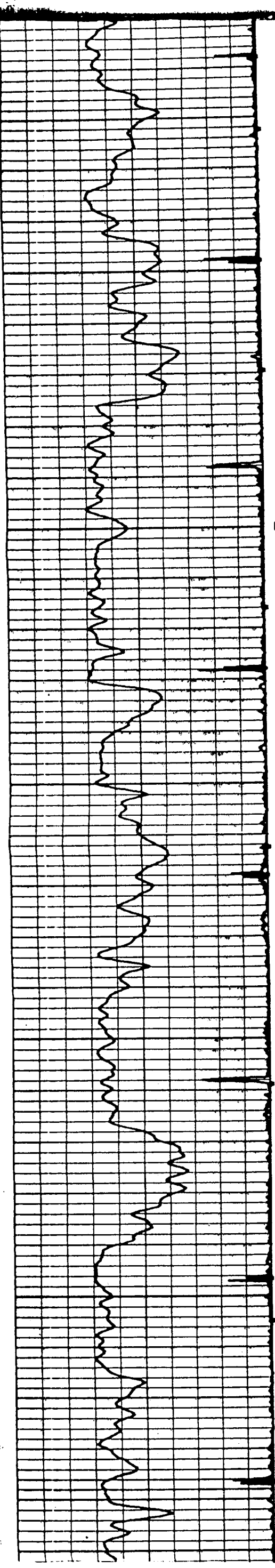
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01300

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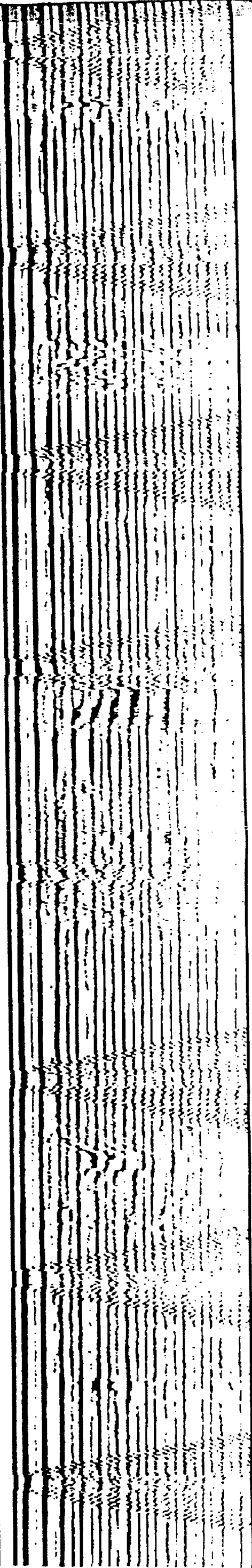
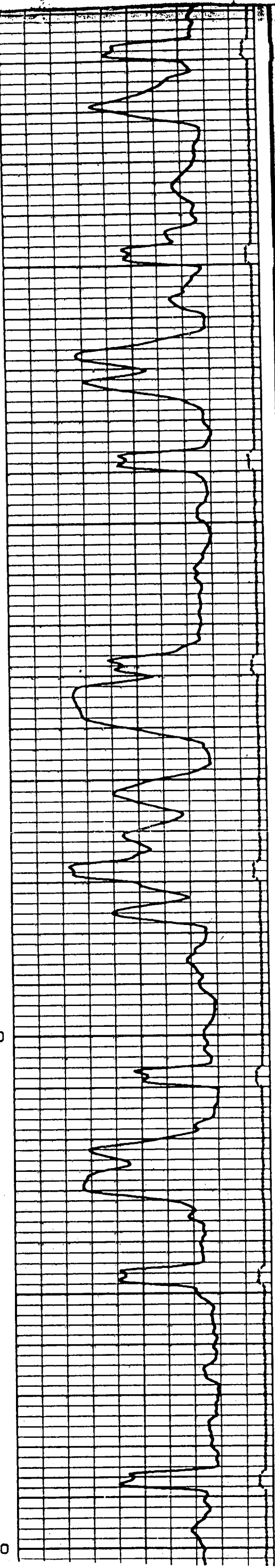


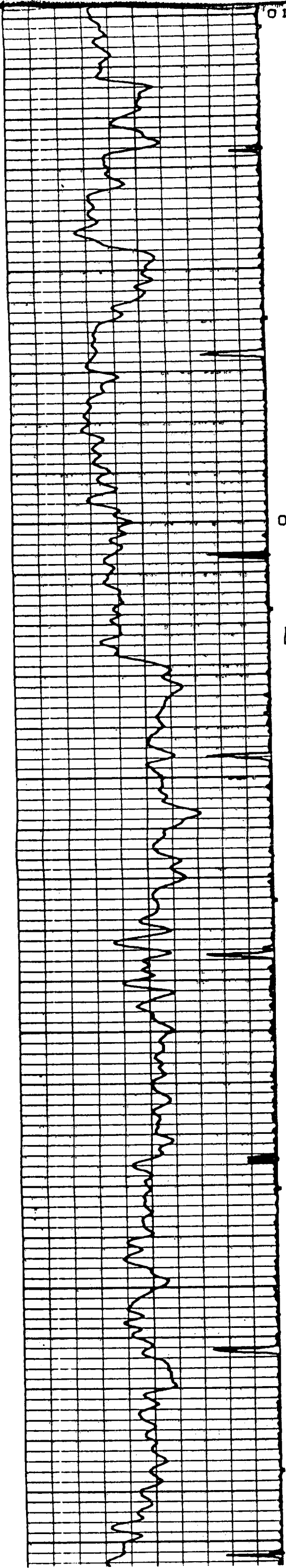


01600

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01800





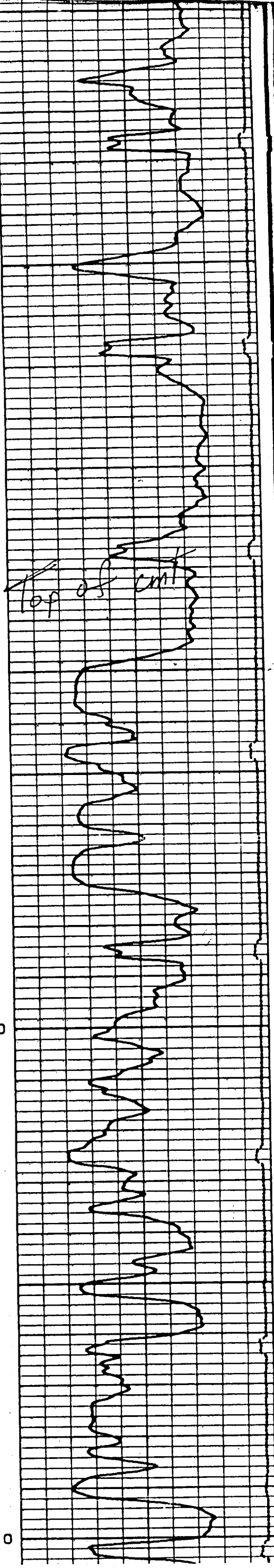
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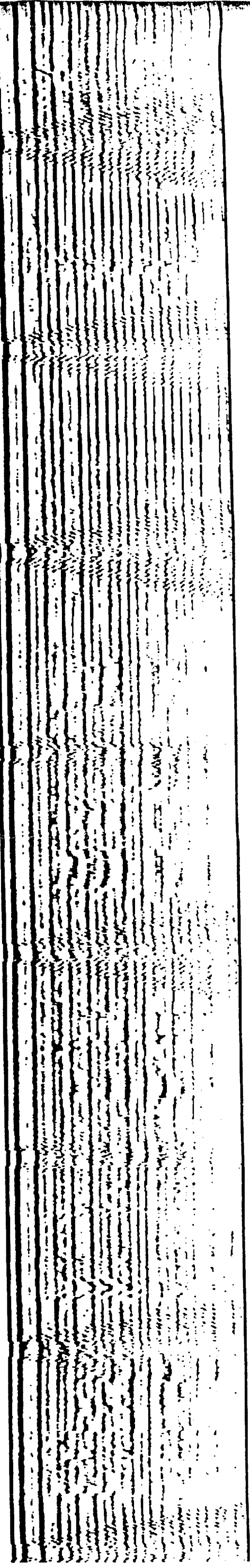
1928'

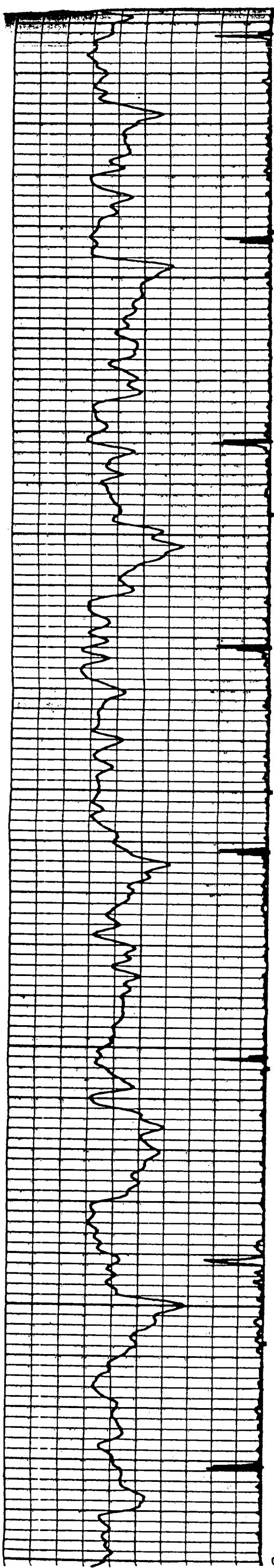
02000

02100



Top of cut



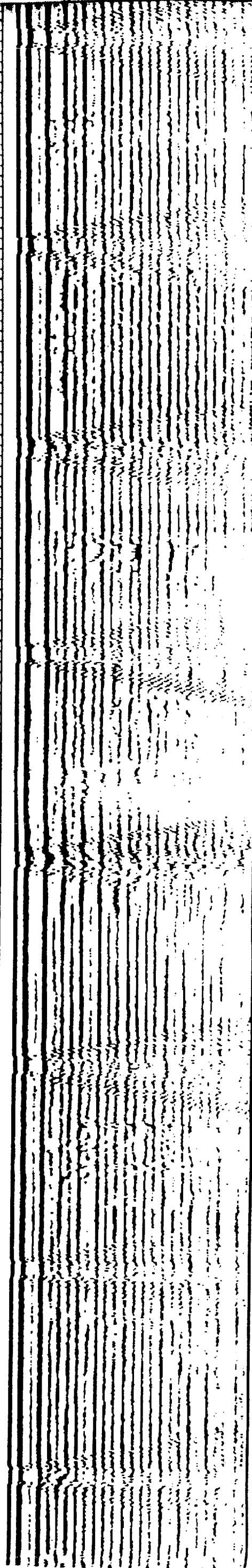


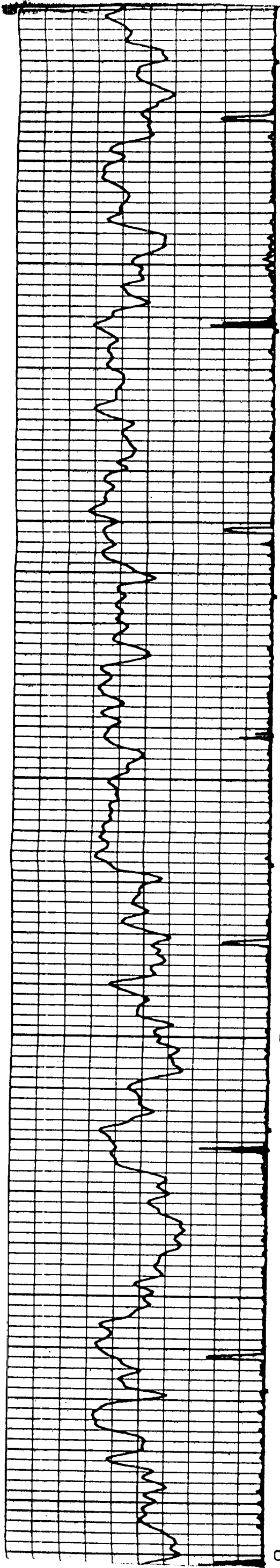
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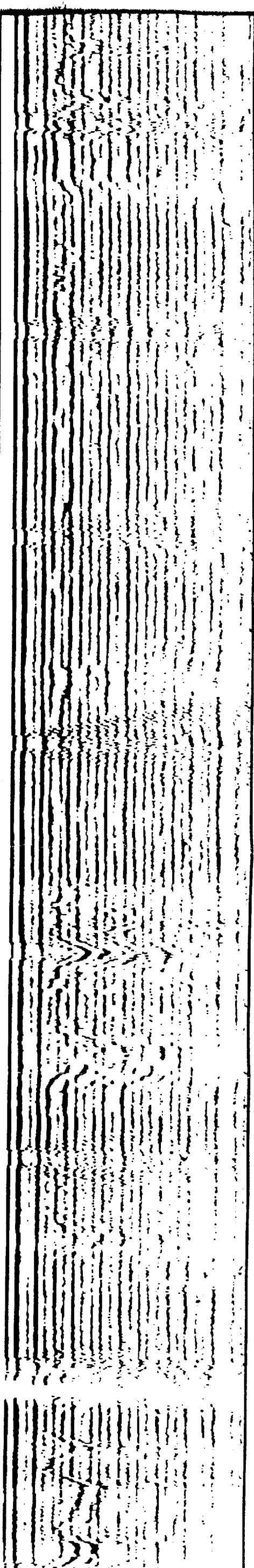
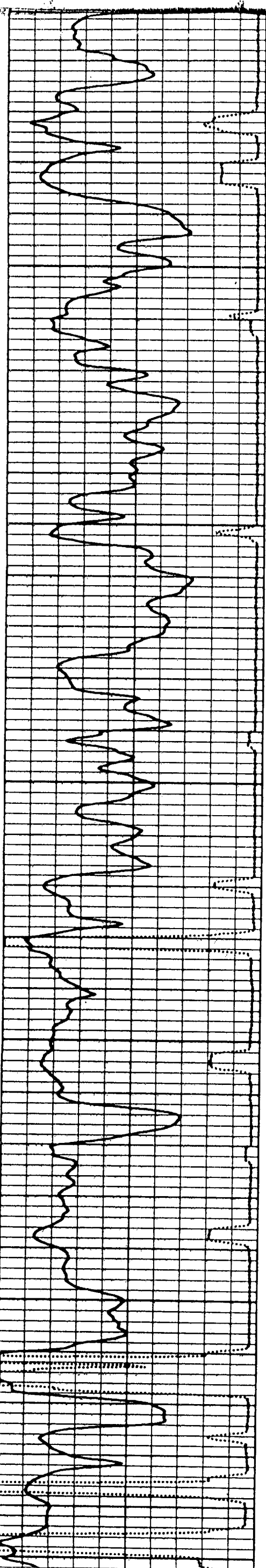


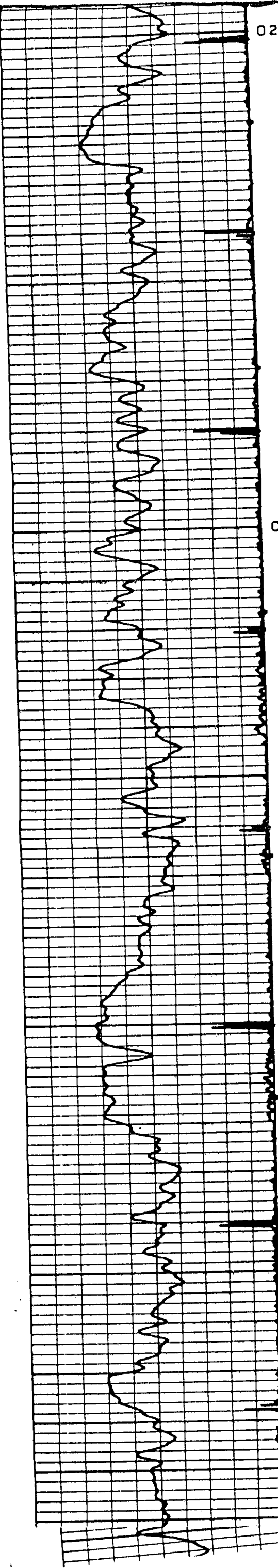
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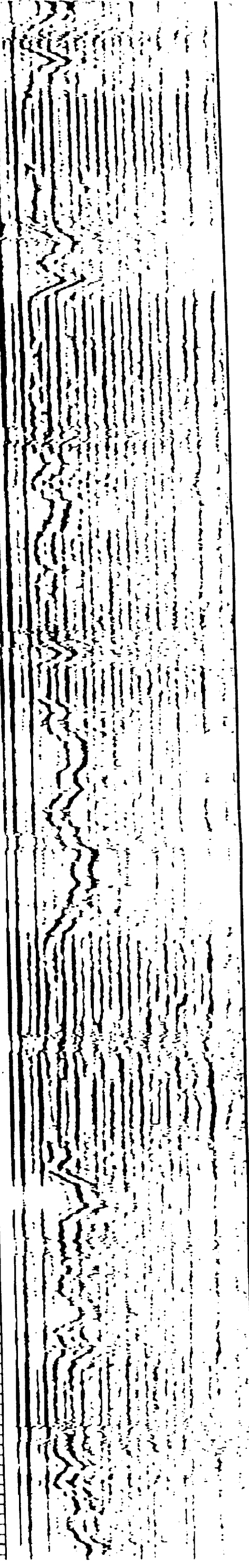
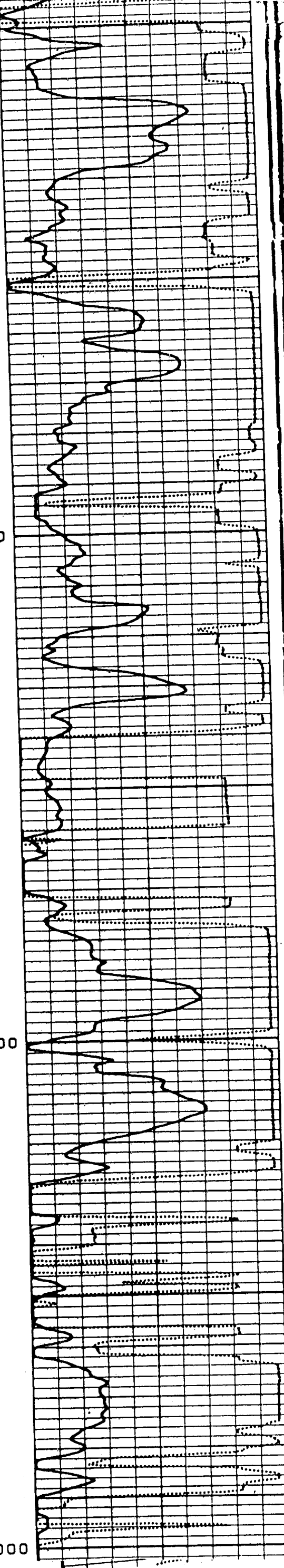


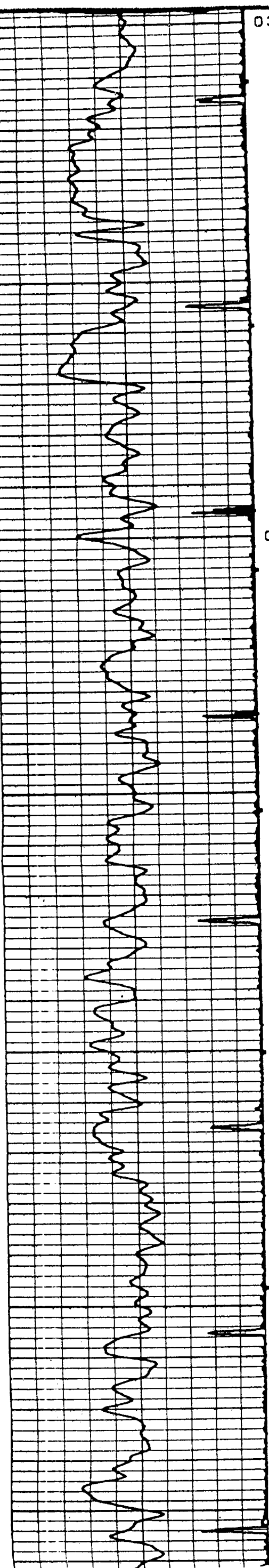
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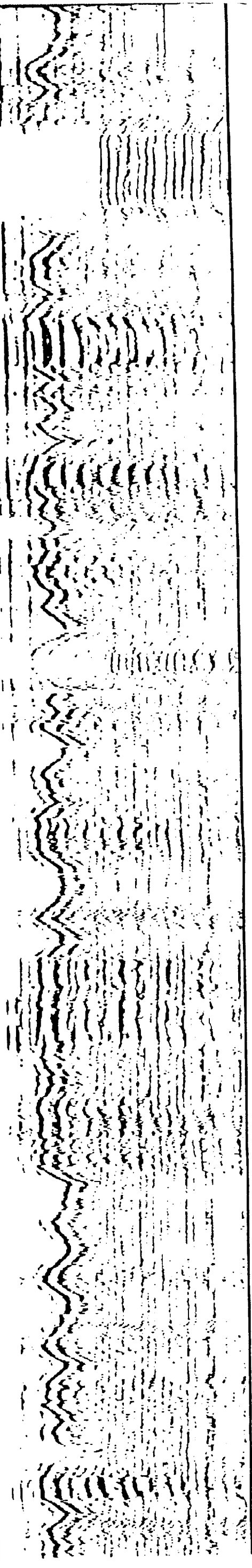
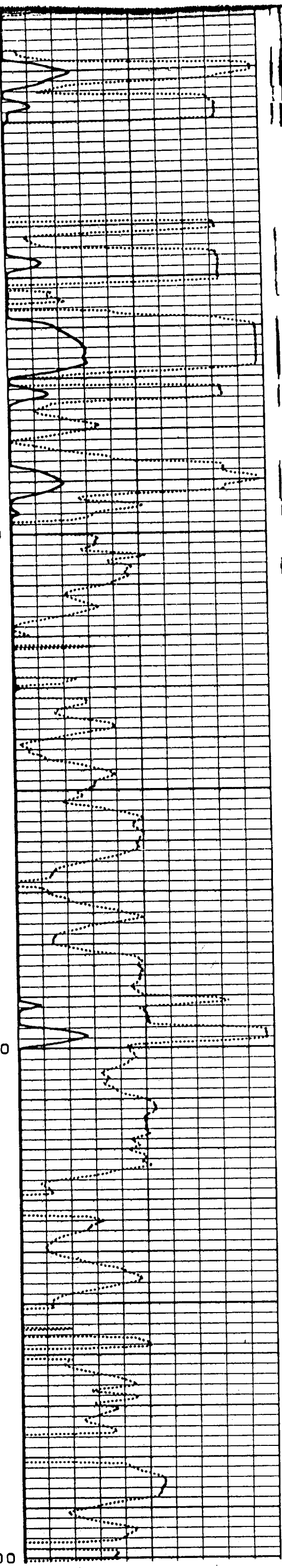


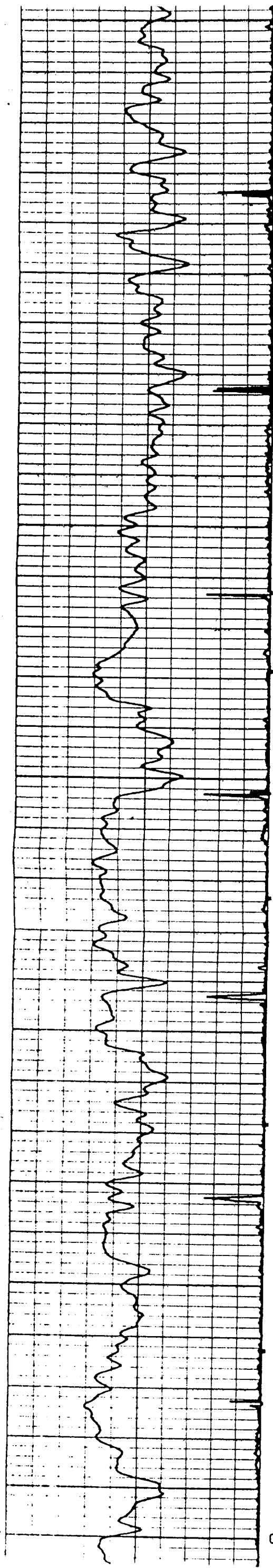
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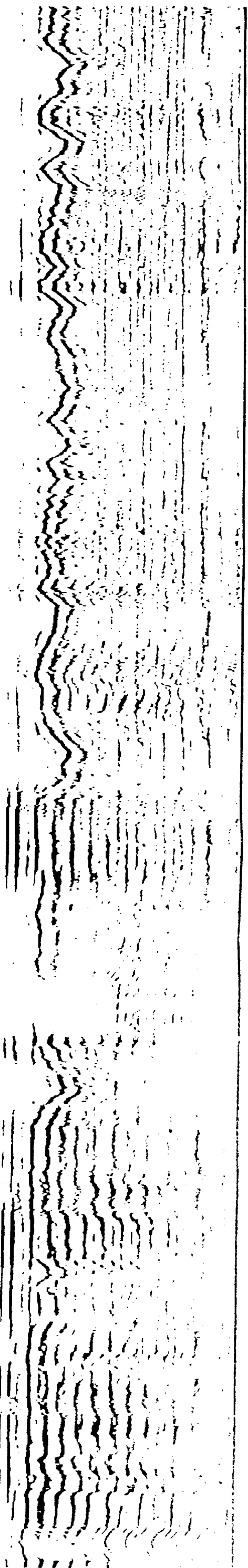
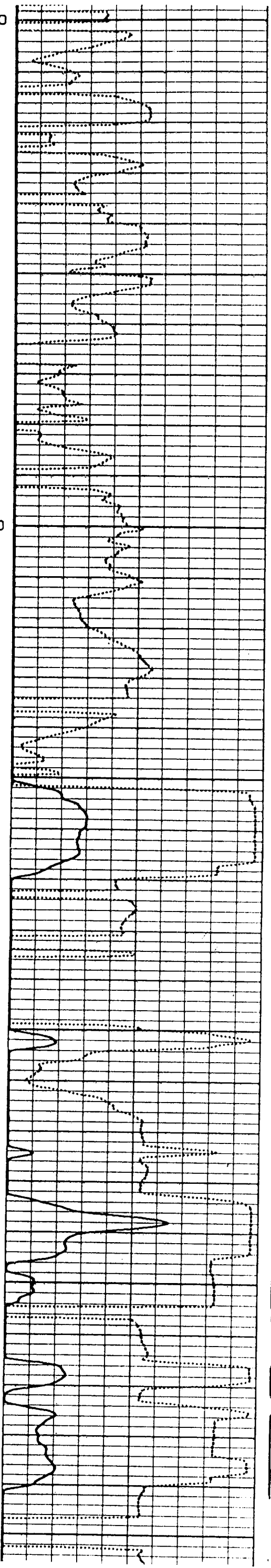


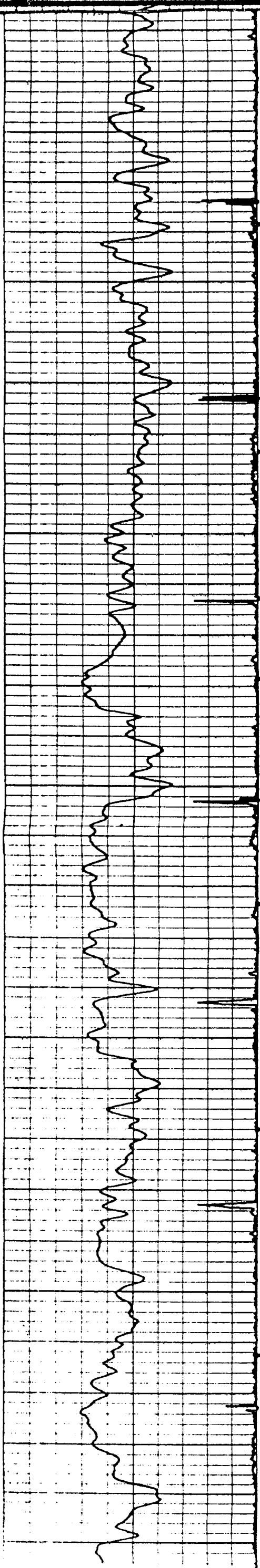
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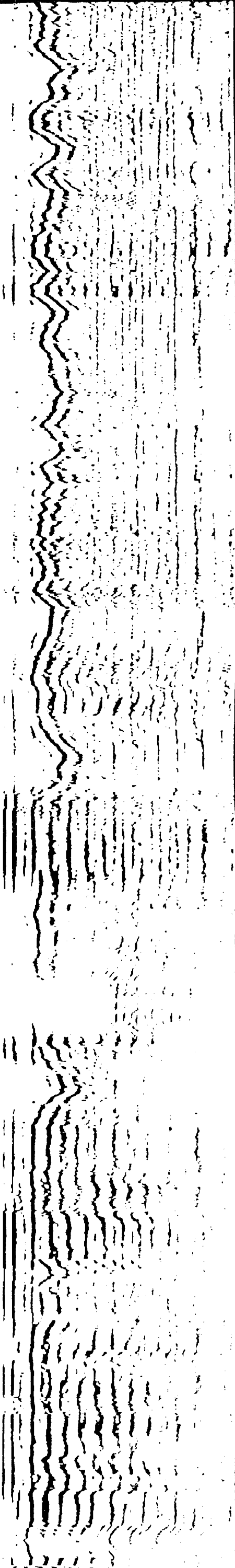
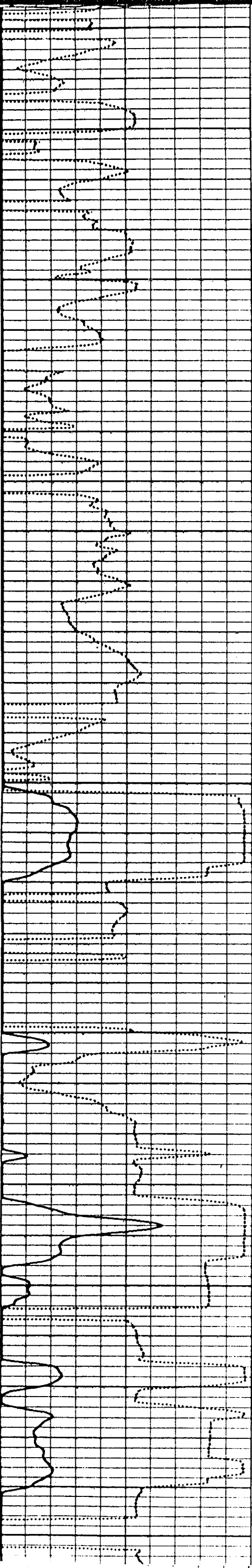


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