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UNIVERSITY OF UTAH  
 RESEARCH INSTITUTE  
 EARTH SCIENCE LAB.

OLIPHANT LABORATORIES INC  
 NATIONAL BANK OF TULSA BUILDING  
 TULSA, OKLAHOMA

# Electric Log

COMPANY O'NEILL - OLIPHANT

WELL REYNOLDS #1

FIELD STILLWATER

COUNTY CHURCHILL, STATE NEVADA

LOCATION: 1050' EWL & 1150' NSL SW/4

OTHER SERVICES:

SEC. 6 TWP. 19N RGE. 31E

PERMANENT DATUM GROUND LEVEL ELEV. 3895' ELEV. K.B. 3906.7

LOG MEASURED FROM KB, 11.7 FT. ABOVE PERM. DATUM D.F. 3905'

DRILLING MEASURED FROM KB G.I. 3895'

DATE	2-6-'64	2-10-'64	2-15-'64	2-17-'64	2-21-'64	2
RUN NO.	ONE	TWO	THREE	FOUR	FIVE	8
DEPTH-DRILLER	350'	1500'	2472'	3245'	2501'	3
DEPTH-LOGGER	350'		3rg'd@1595'	3245'	2499'	3
BTM. LOG INTER.	349'	1260'	1630'	3244'	2499'	3
TOP LOG INTER.	128'	349'	1459'	1459'	3150'	3
CASING-DRILLER	20" @ 126'	16" @ 340'	10 3/4" @ 1159'	10 3/4" @ 1459'	10 7/8" @ 1159'	1
CASING-LOGGER	126	342'	1459'	1459'	1159'	1
BIT SIZE	19"	15"	9 7/8"	9 7/8"	9 7/8"	9
TYPE FLUID IN HOLE	Gel Mud	GEL MUD	CARBONOX	CARBONOX	CARBONOX	C
DENS.	9.3	10.4		9.7	9.8	9
VISC.	42	42		42	42	9
pH						
FLUID LOSS		13 ml				
SOURCE OF SAMPLE	FLOW LINE	FLOW LINE	FLOW LINE	FLOW LINE	FLOW LINE	F
Rm @ MEAS. TEMP.	217 @ 64 °F	2.35 @ 72 °F	1.85 @ 80 °F	1.9 @ 85 °F	2.5 @ 55 °F	2
Rmf @ MEAS. TEMP.	" @ °F	" @ °F	" @ °F	" @ °F	" @ °F	(
Rmc @ MEAS. TEMP.	" @ °F	" @ °F	" @ °F	" @ °F	" @ °F	S
SOURCE Rmf   Rmc						DS
Rm @ B.H.T.	" @ °F	" @ °F	" @ °F	" @ °F	" @ °F	
TIME SINCE CIRC.		2 HRS. I.T.	117 °F		5 HOURS	10
MAX. REC. TEMP.		167 °F			220 (HG) °F	21
EQUIP. LOCATION						
RECORDED BY	WILLETT	WILLETT	WILLETT	WILLETT	WILLETT	W

INC  
19

DA  
SERVICES:

B. 3906.7  
F. 3905.1  
L. 3895.1

2-21-16H	2-21-16H	2-22-16H	2-24-16H
P. 3906.7	P. 3906.7	P. 3906.7	P. 3906.7
F. 3905.1	F. 3905.1	F. 3905.1	F. 3905.1
L. 3895.1	L. 3895.1	L. 3895.1	L. 3895.1
3150'	3150'	3150'	3150'
10 3/4" @ 1159'	10 3/4" @ 1159'	10 3/4" @ 1159'	10 3/4" @ 1159'
1159'	1159'	1159'	1159'
9 7/8"	9 7/8"	9 7/8"	9 7/8"
CARBONOX	CARBONOX	CARBONOX	CARBONOX
3.8	3.8	3.8	3.8
1/2	1/2	1/2	1/2
9.9	9.9	9.9	9.9
40	40	40	40
9.7	9.7	9.7	9.7
39	39	39	39
FLOW LINE	FLOW LINE	FLOW LINE	FLOW LINE
2.5 @ 55'	2.5 @ 55'	2.5 @ 55'	2.5 @ 55'
2.6 @ 62'	2.6 @ 62'	2.6 @ 62'	2.6 @ 62'
2.4 @ 68'	2.4 @ 68'	2.4 @ 68'	2.4 @ 68'
5 HOURS	5 HOURS	5 HOURS	5 HOURS
220 (HG)	220 (HG)	220 (HG)	220 (HG)
10 1/2 HOURS	10 1/2 HOURS	10 1/2 HOURS	10 1/2 HOURS
210	210	210	210
1 HOURS	1 HOURS	1 HOURS	1 HOURS
210	210	210	210

THIS HEADING AND LOG CONFORM TO API RP-31

REMARKS

CHANGES IN MUD TYPE OR ADDITIONAL SAMPLES				SCALE CHANGES			
DATE	SAMPLE NO.			TYPE LOG	DEPTH	SCALE UP HOLE	SCALE DOWN HOLE
DEPTH - DRILLER							
MUD TYPE FLUID IN HOLE							
ENS.	VISC.						
H	FLUID LOSS	ml	ml				
SOURCE OF SAMPLE				EQUIPMENT DATA			
m	@ MEAS. TEMP.	@ °F	@ °F	RUN NO.	TOOL TYPE	PAD TYPE	TOOL POSITION
mf	@ MEAS. TEMP.	@ °F	@ °F				OTHER
mc	@ MEAS. TEMP.	@ °F	@ °F				
SOURCE Rmf		Rmc					
m	@ B. H. T.	@ °F	@ °F				
mf	@ B. H. T.	@ °F	@ °F				
mc	@ B. H. T.	@ °F	@ °F				

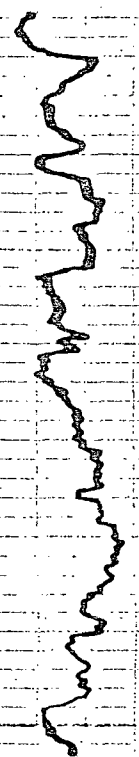


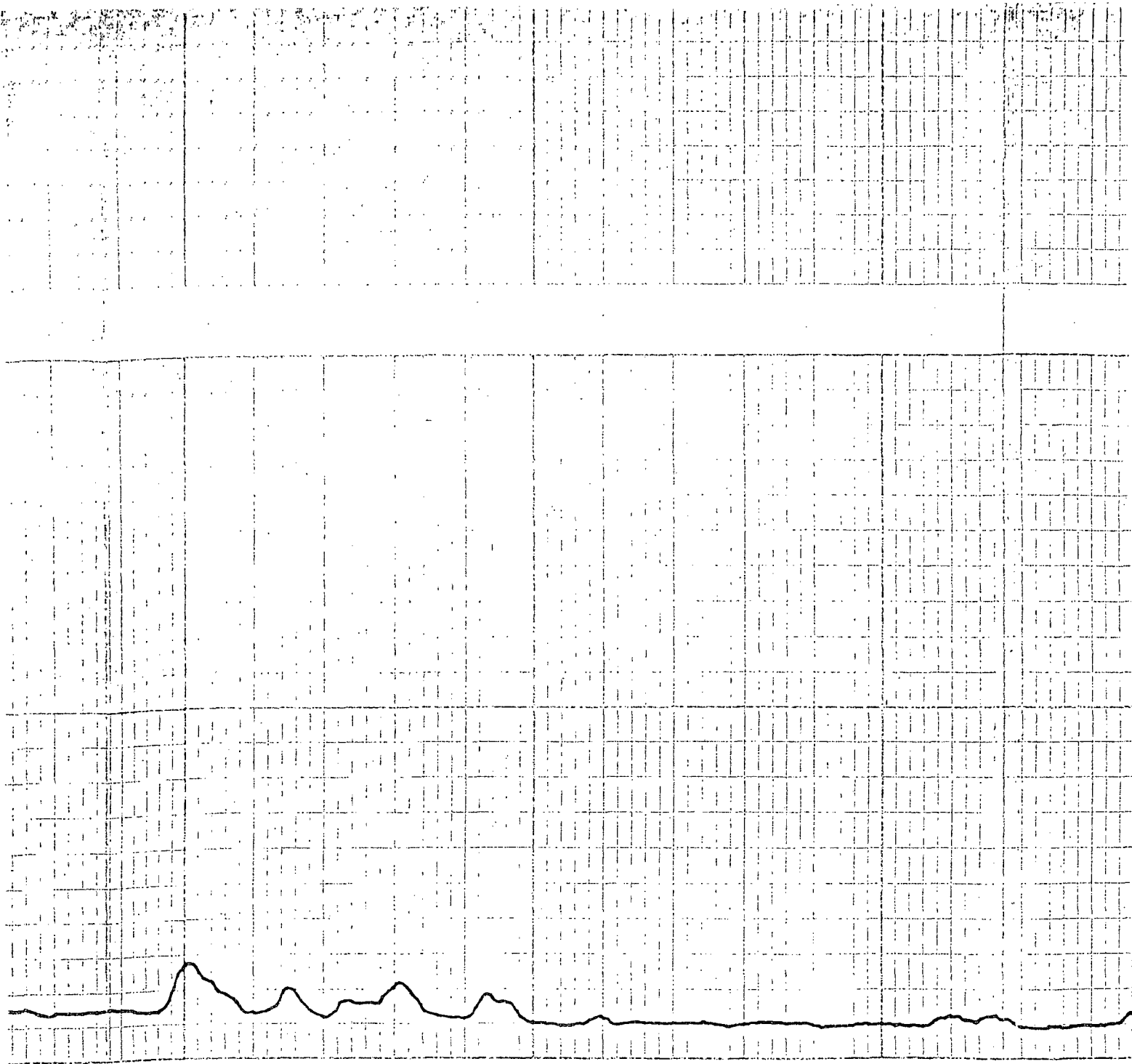
5  
MV

SEE SCALE CHANGE AT  
352'

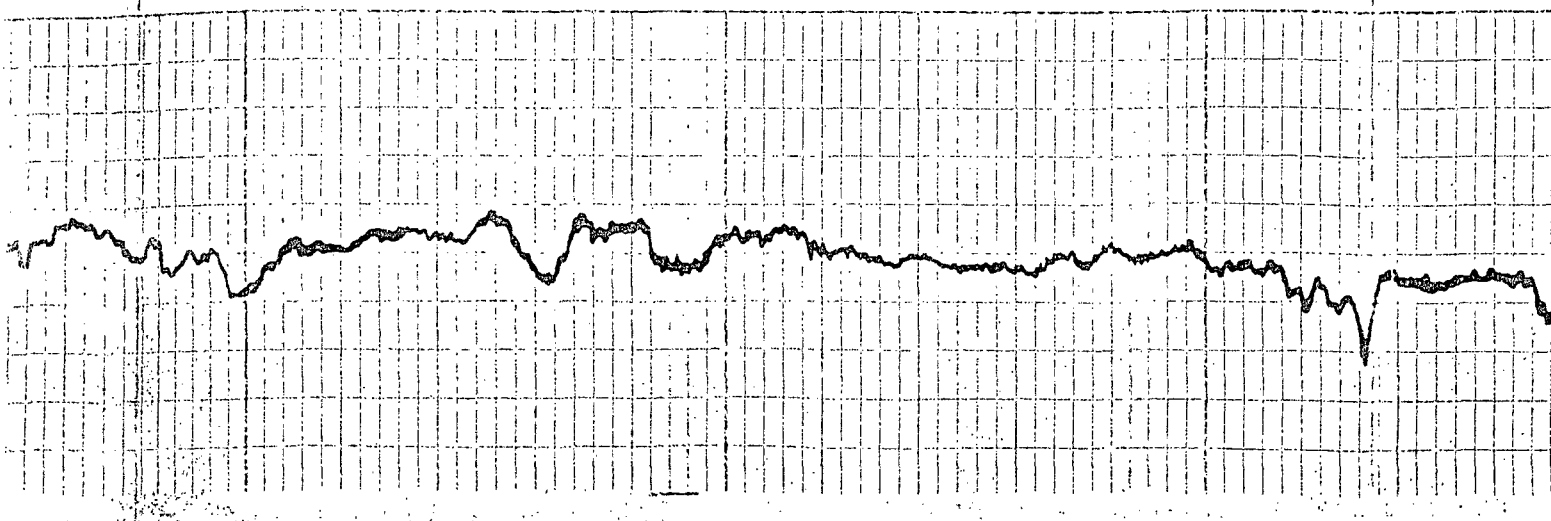
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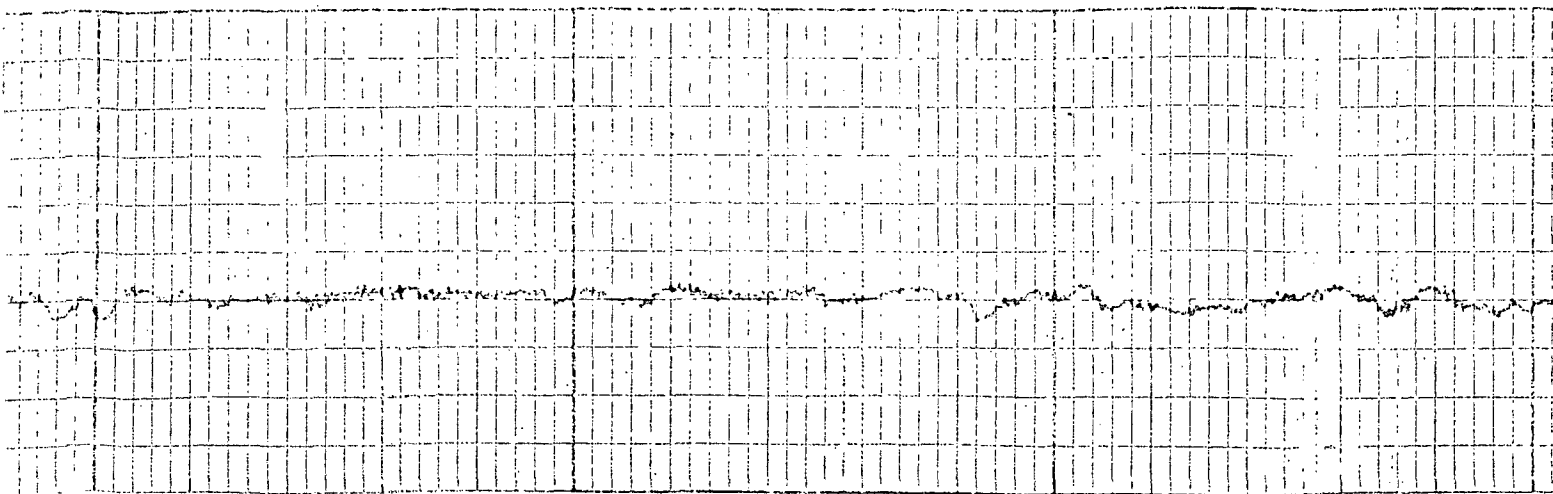
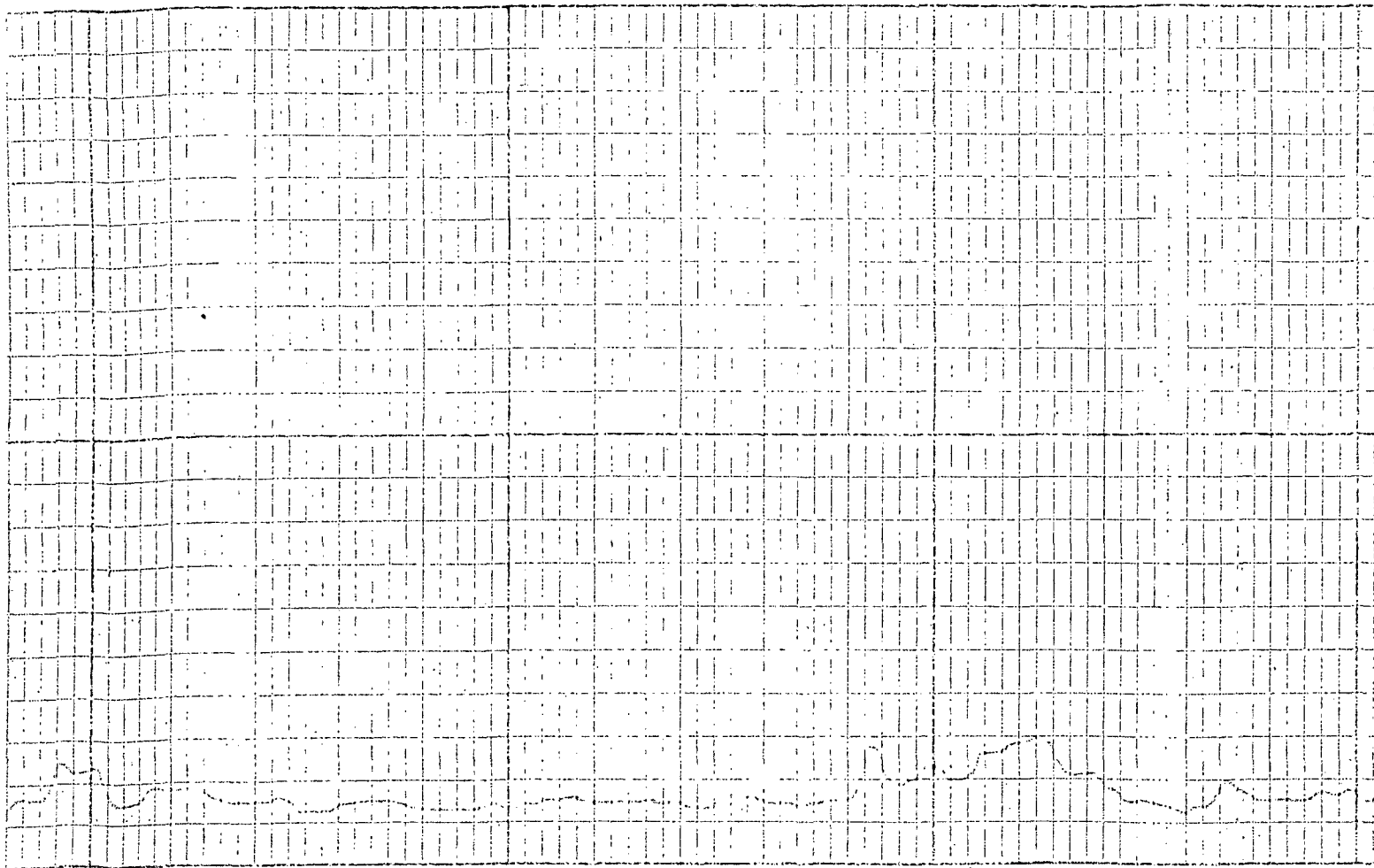
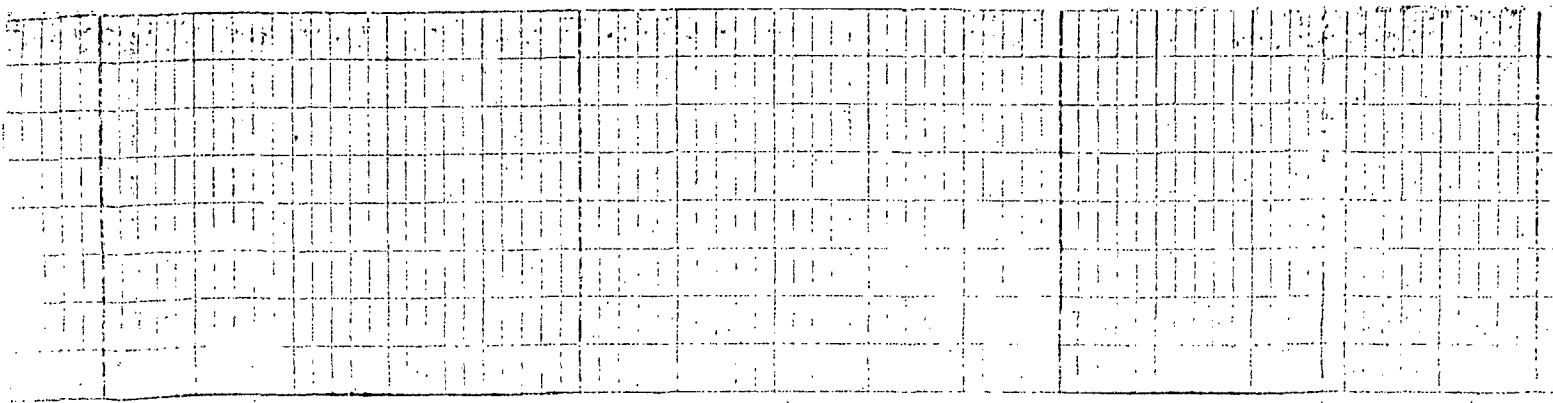




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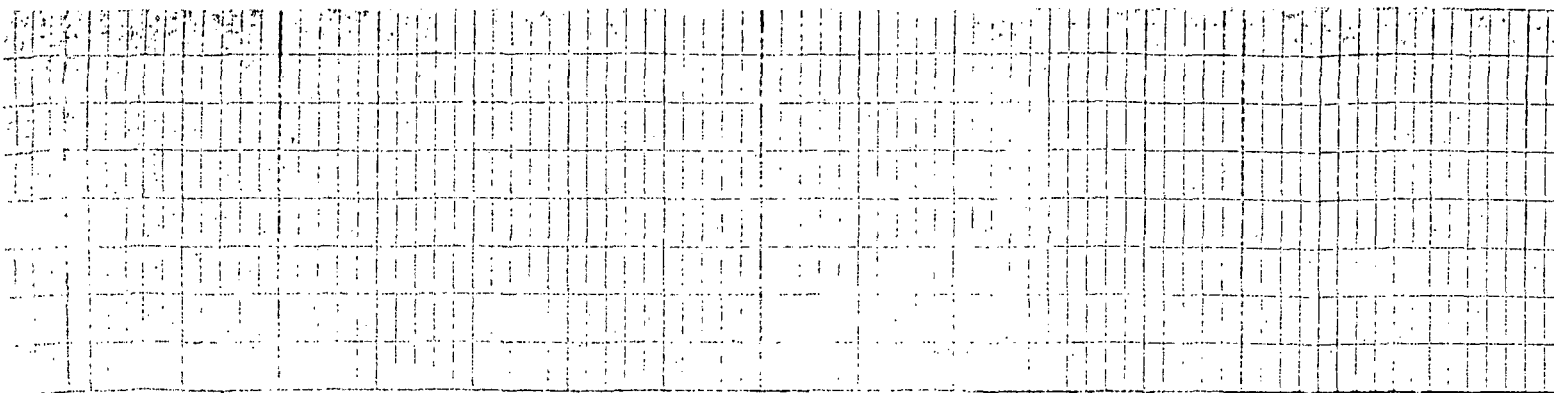






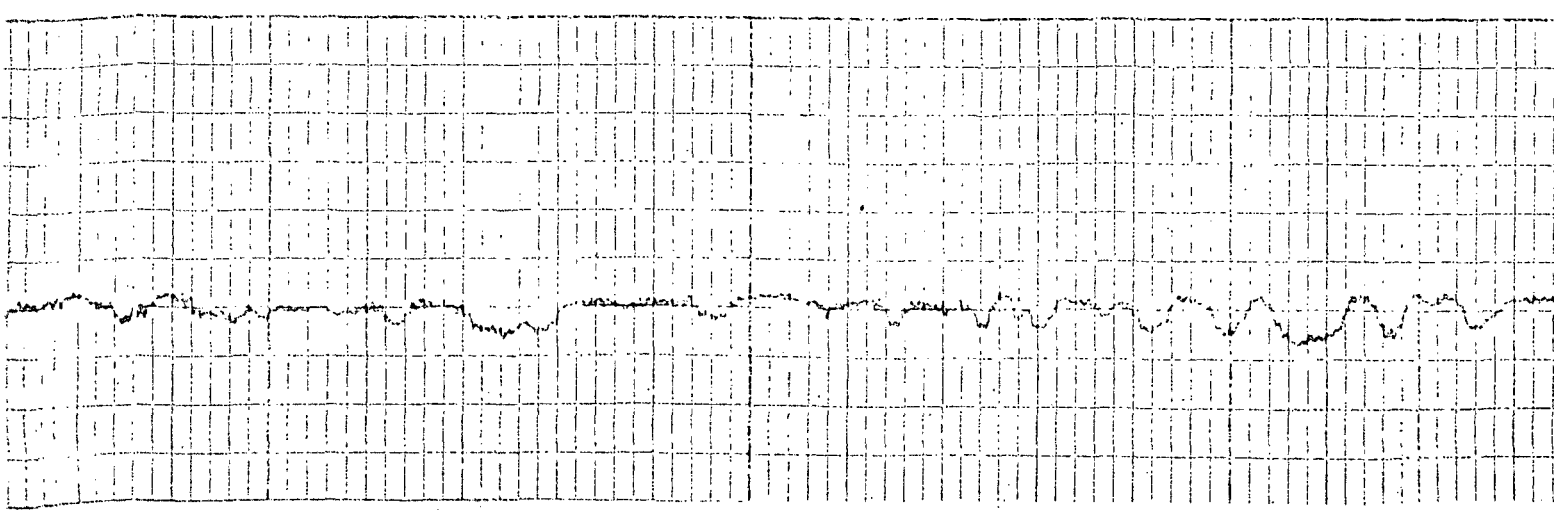
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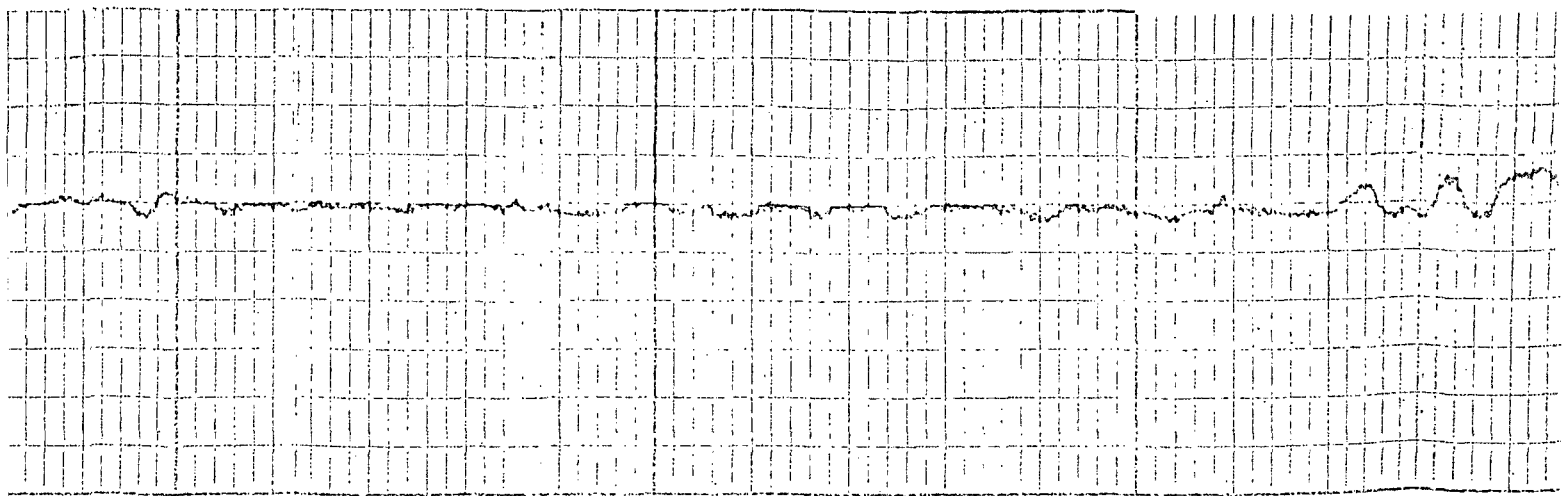


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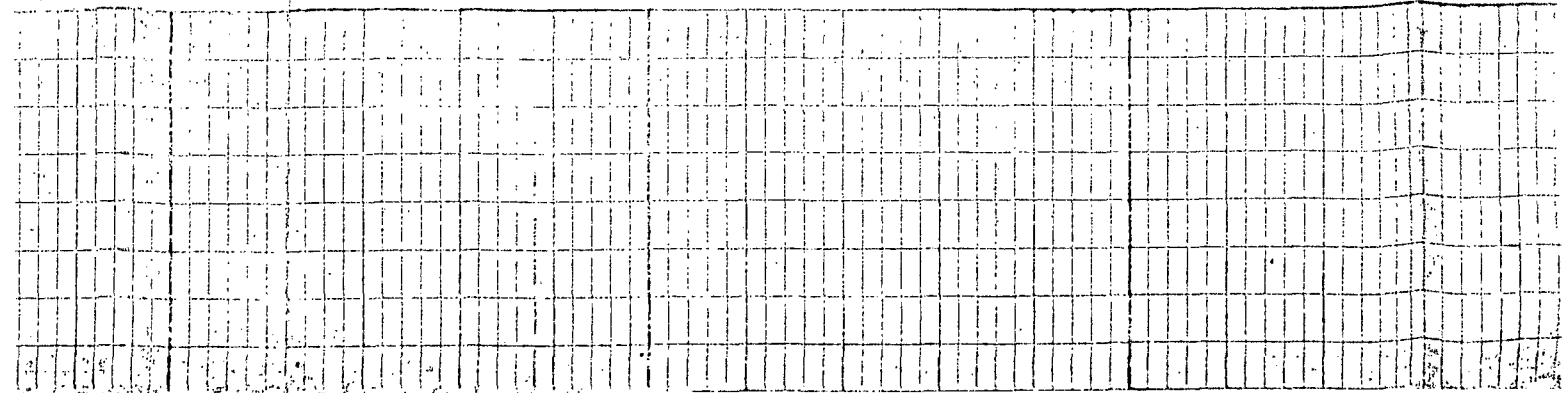
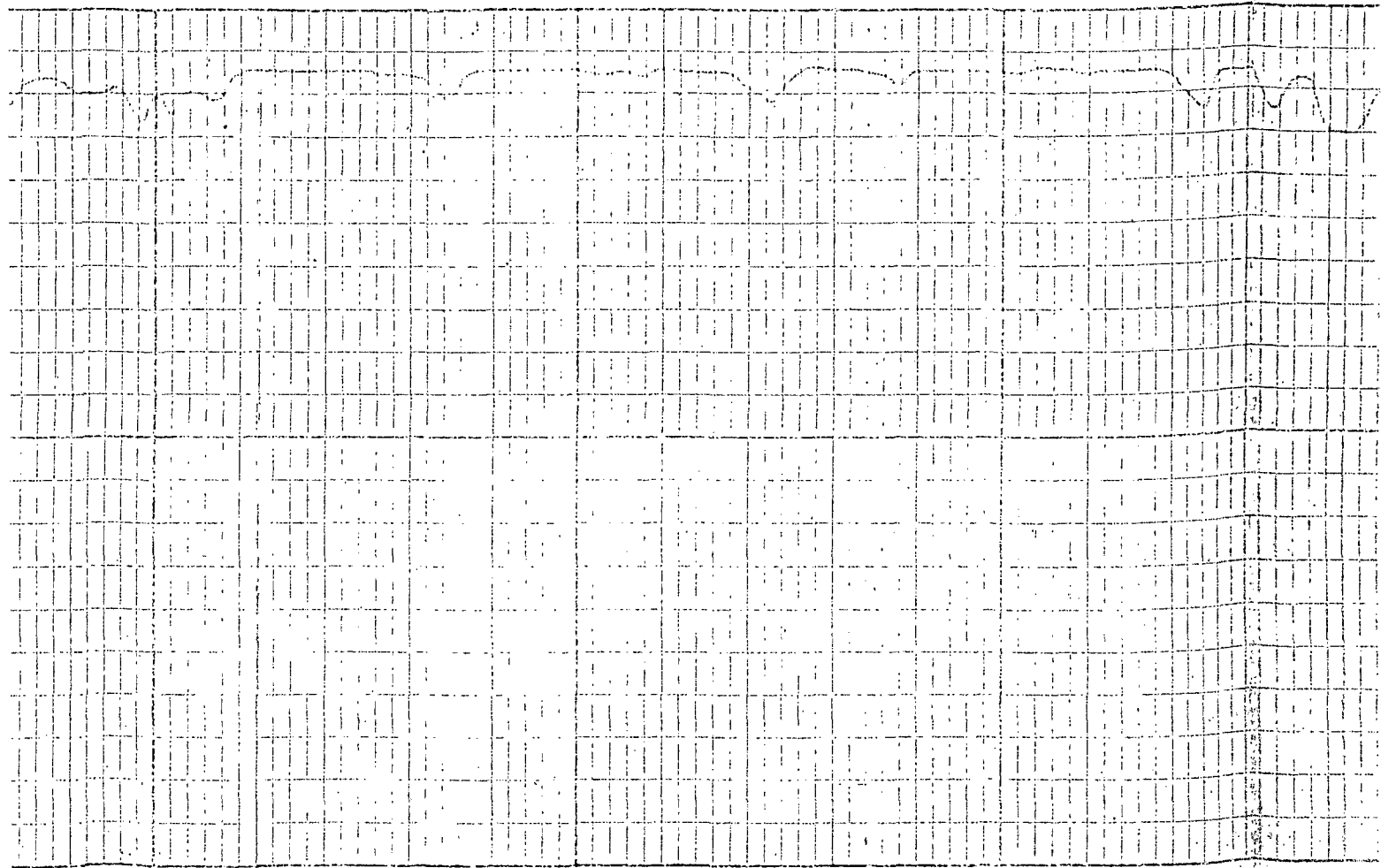
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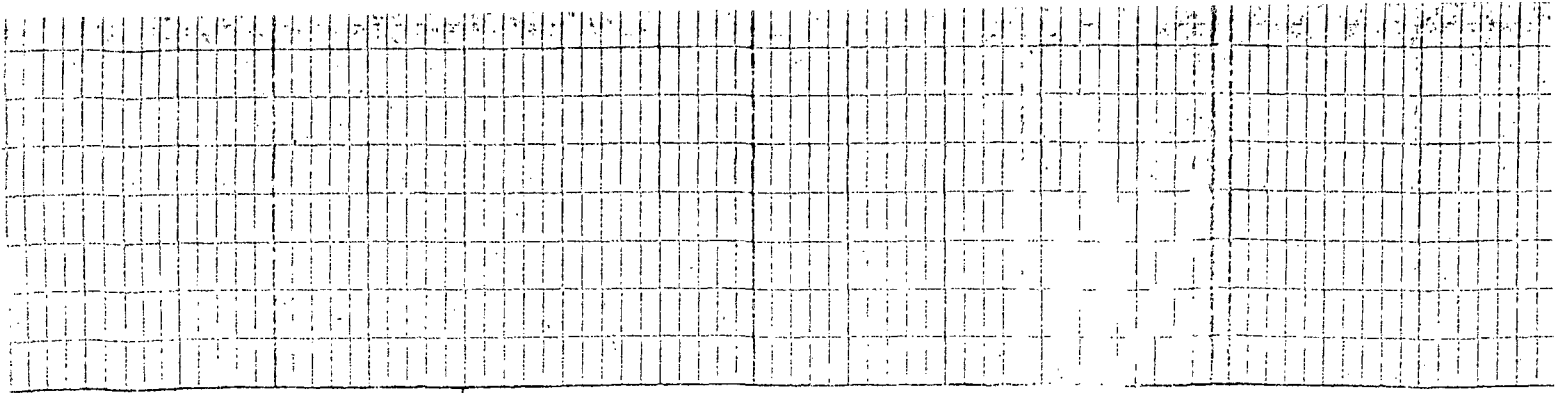


Run



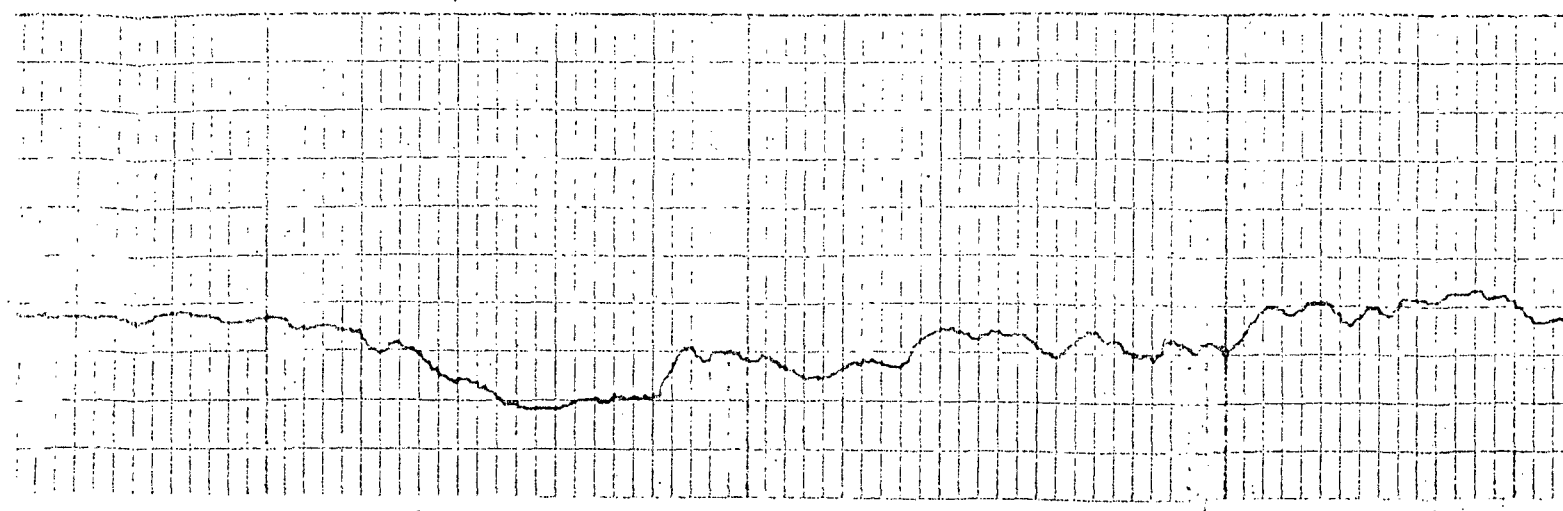


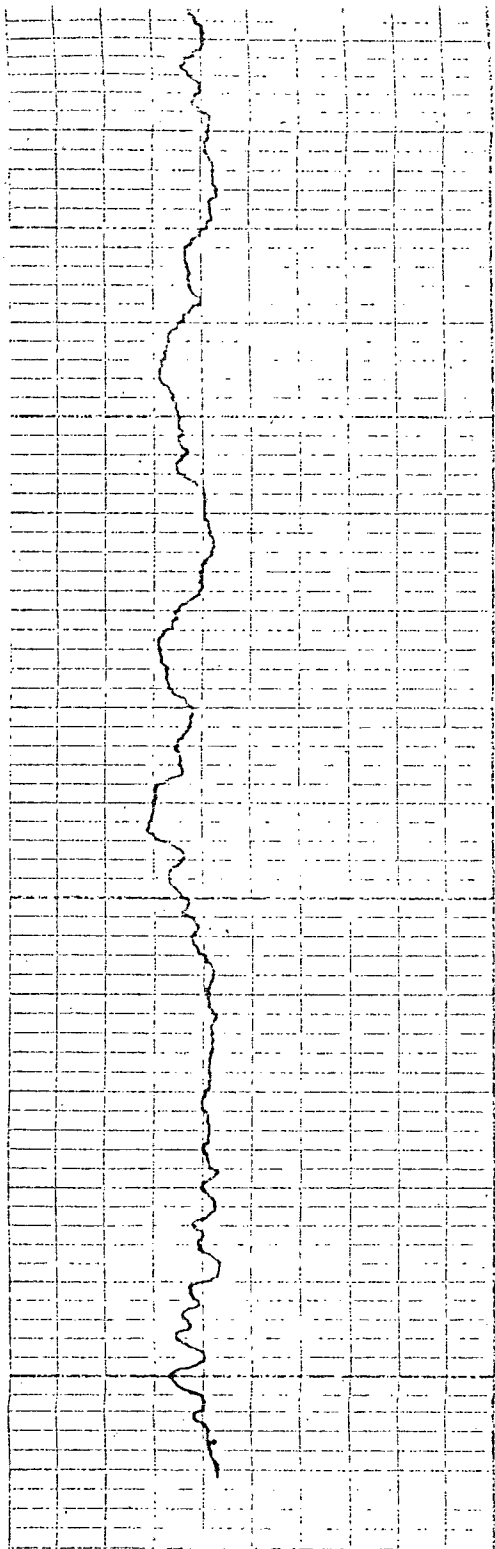
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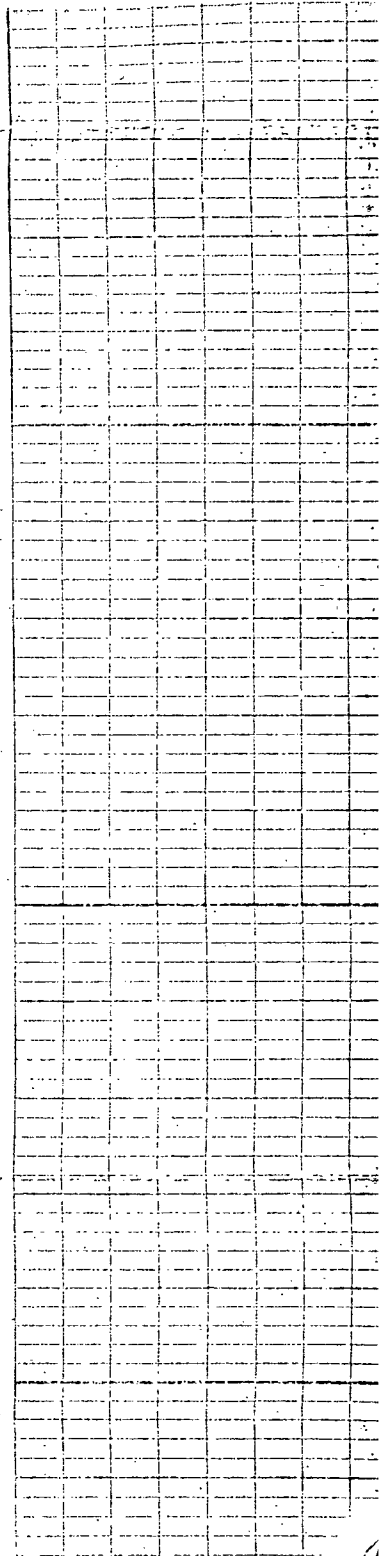
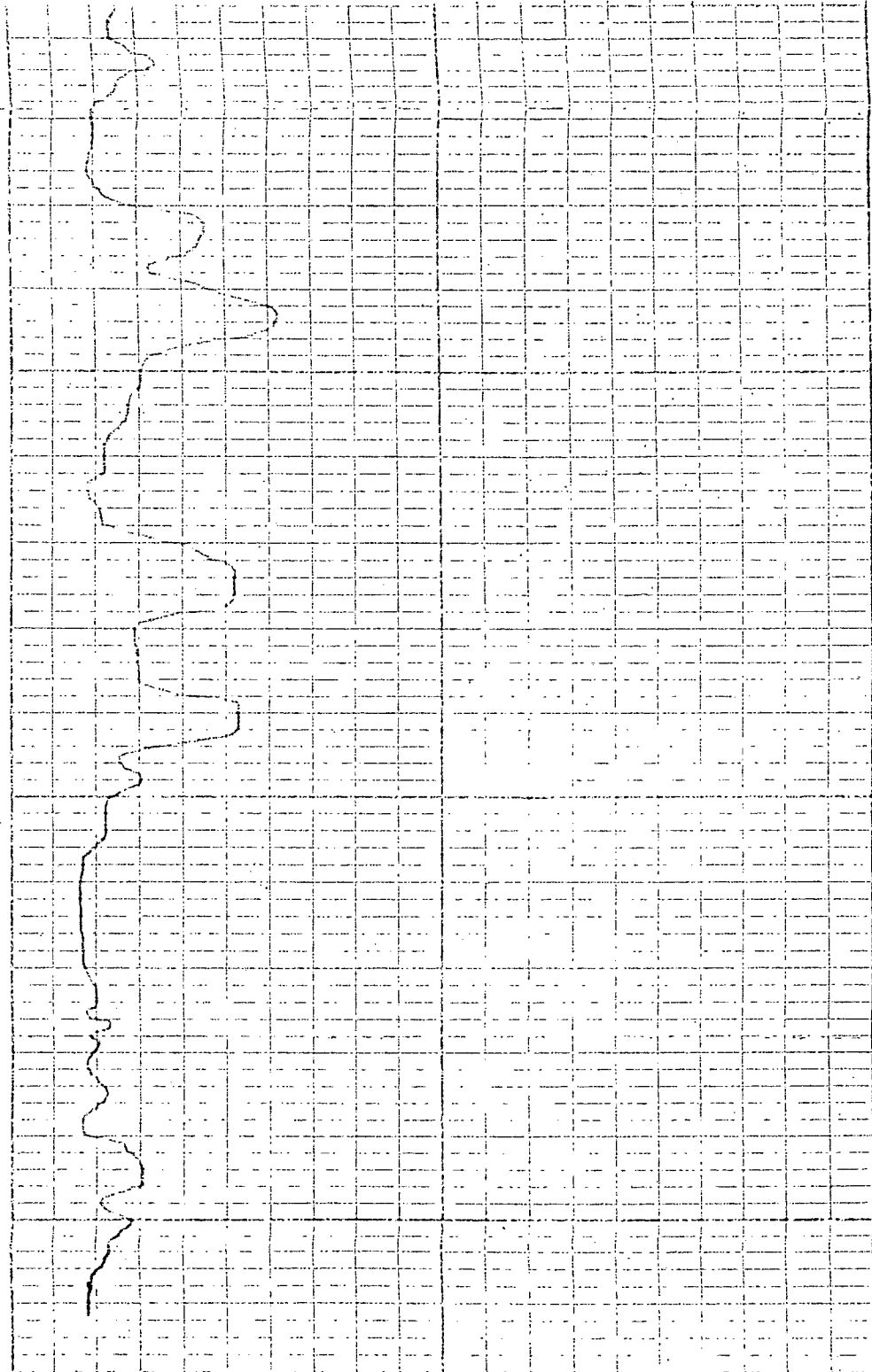
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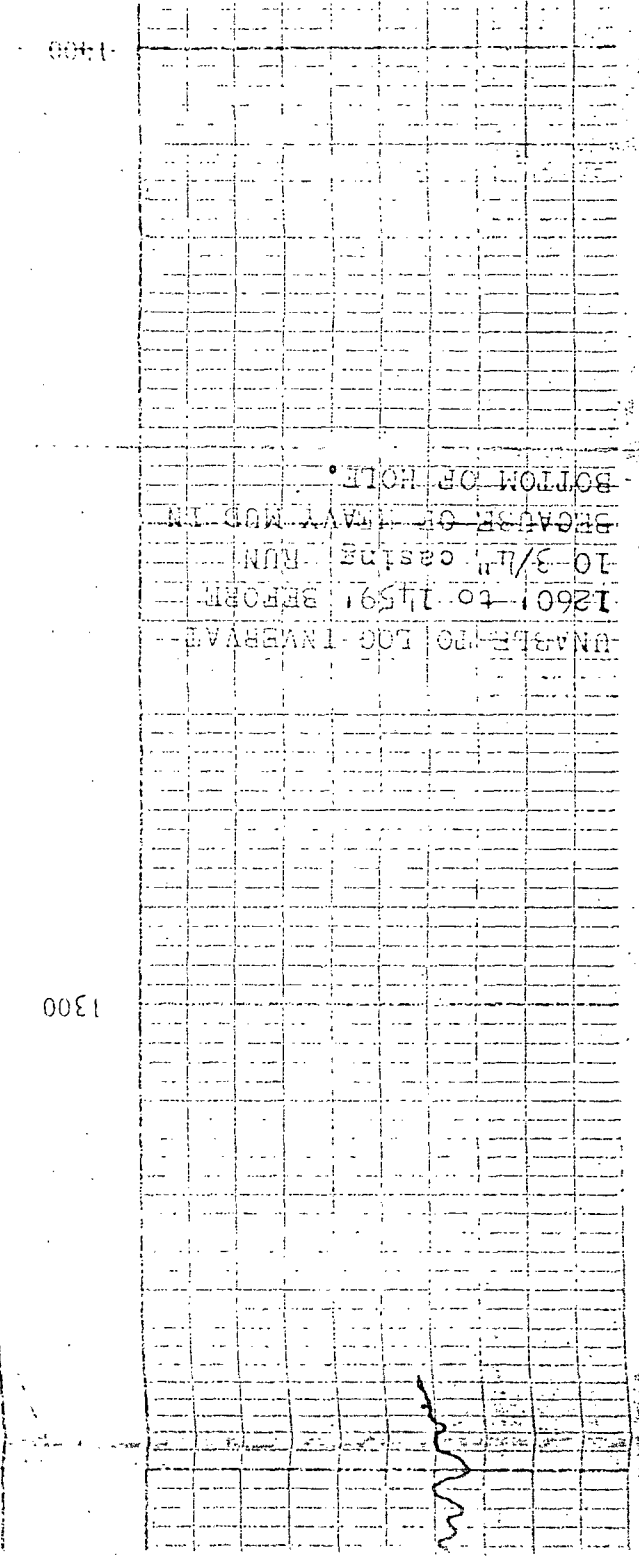
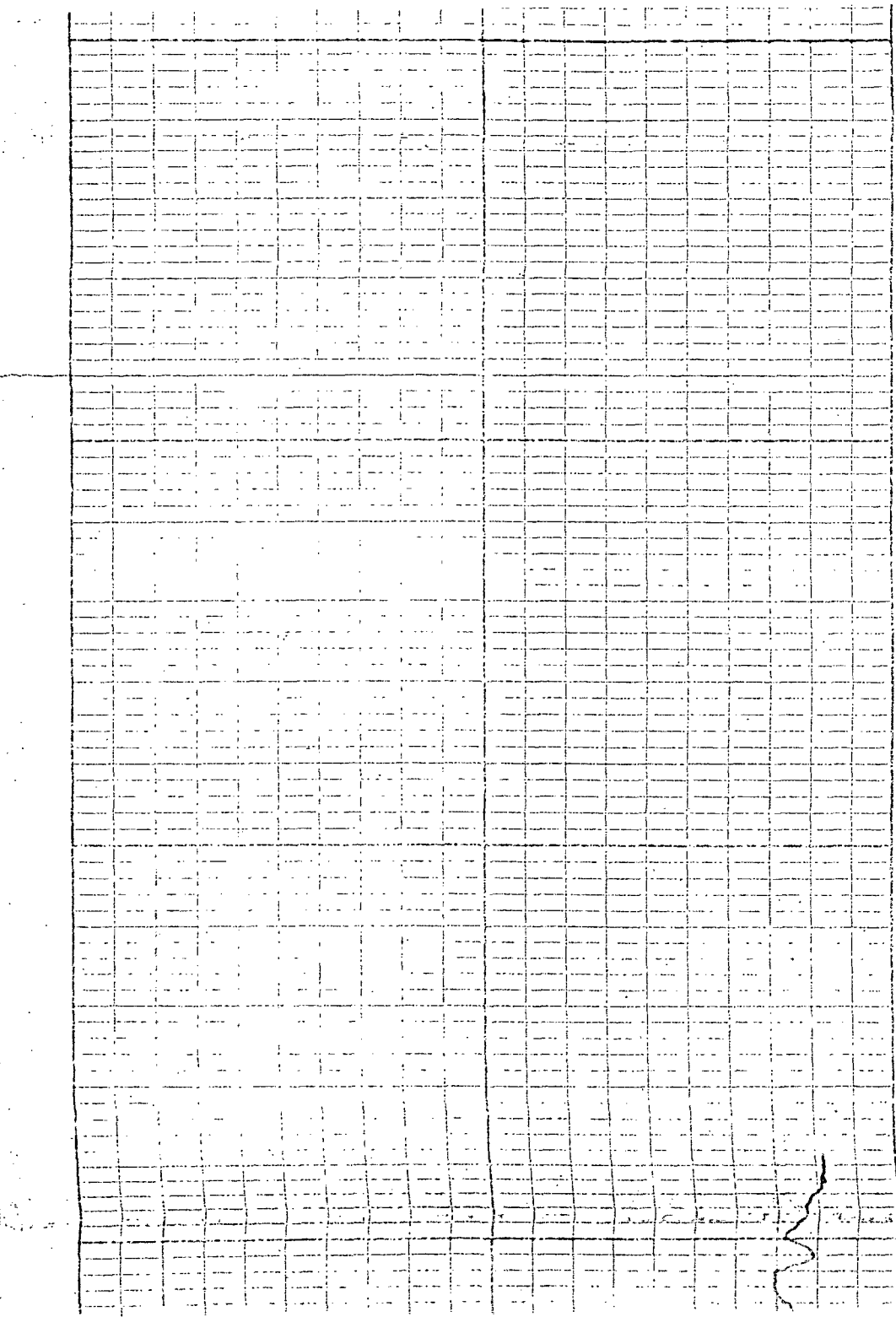
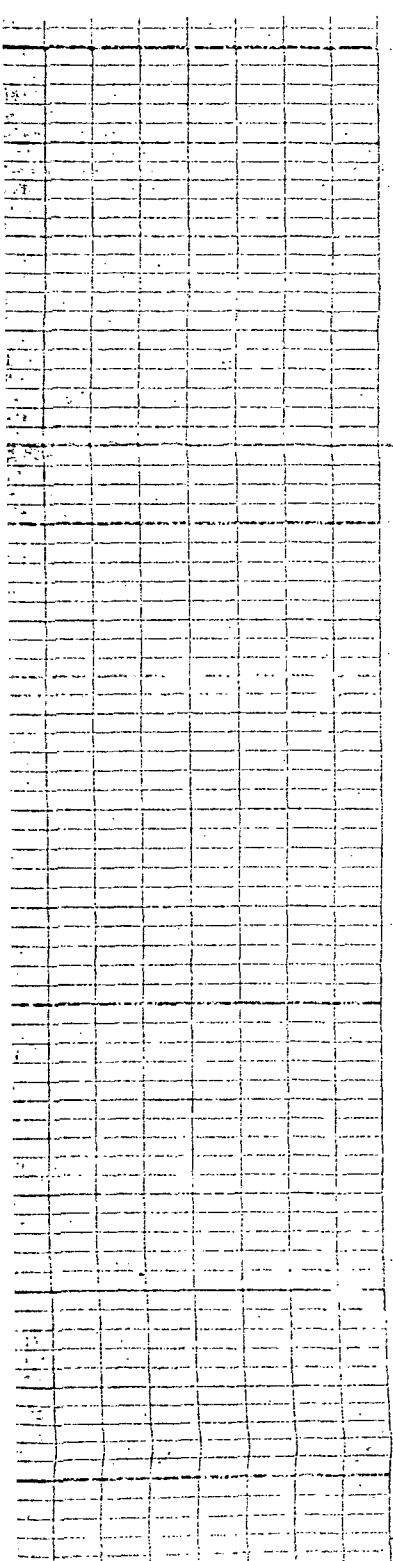
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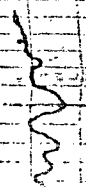
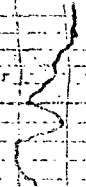


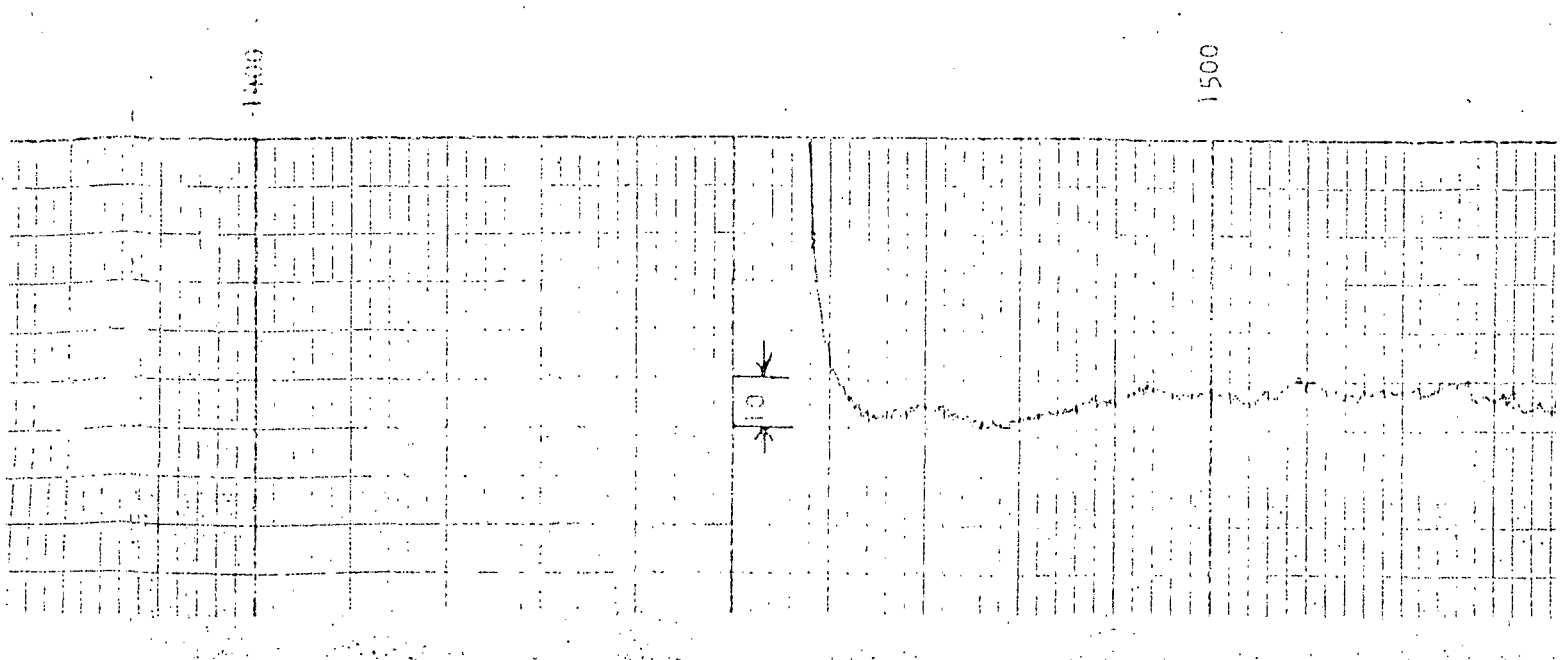
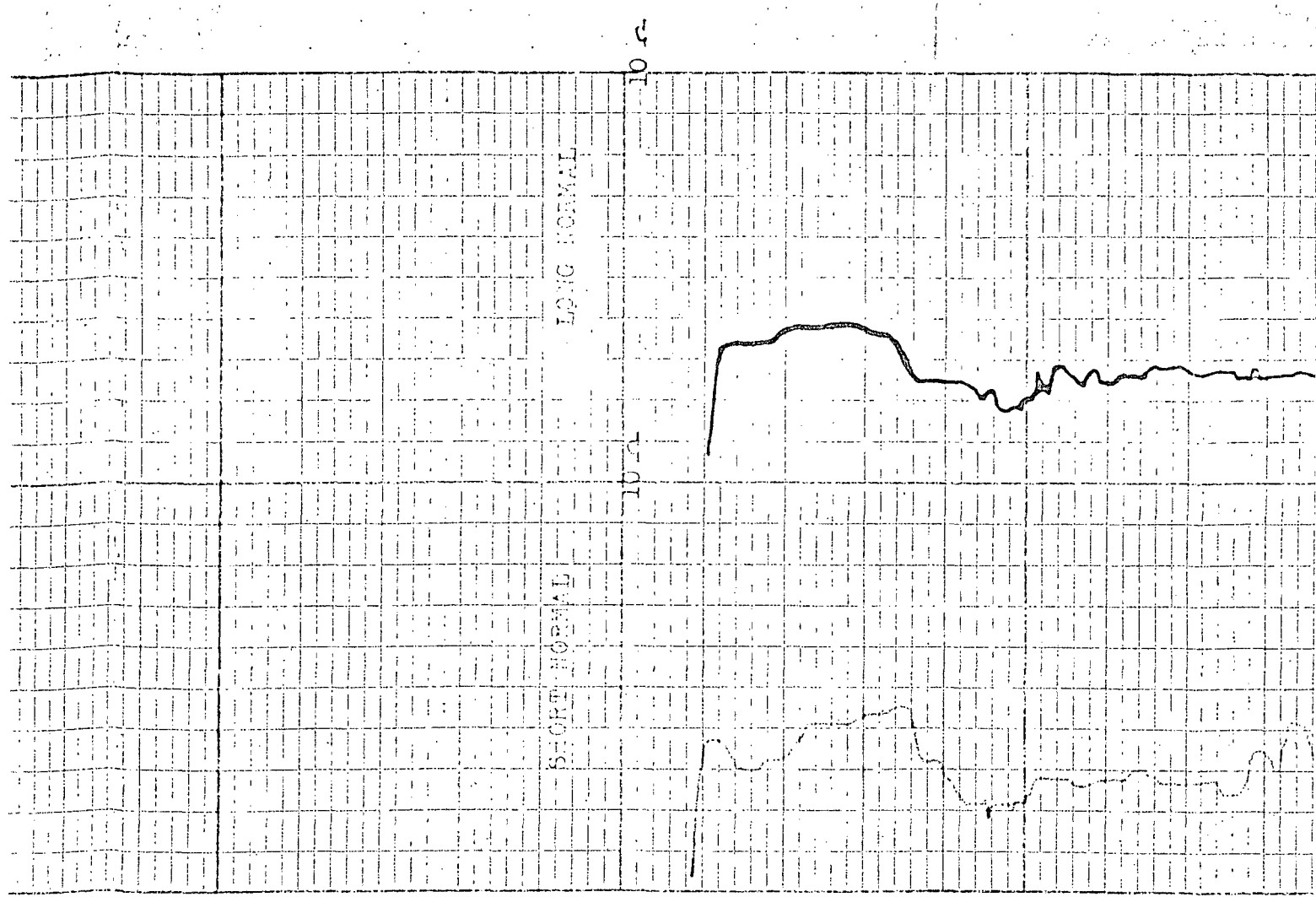
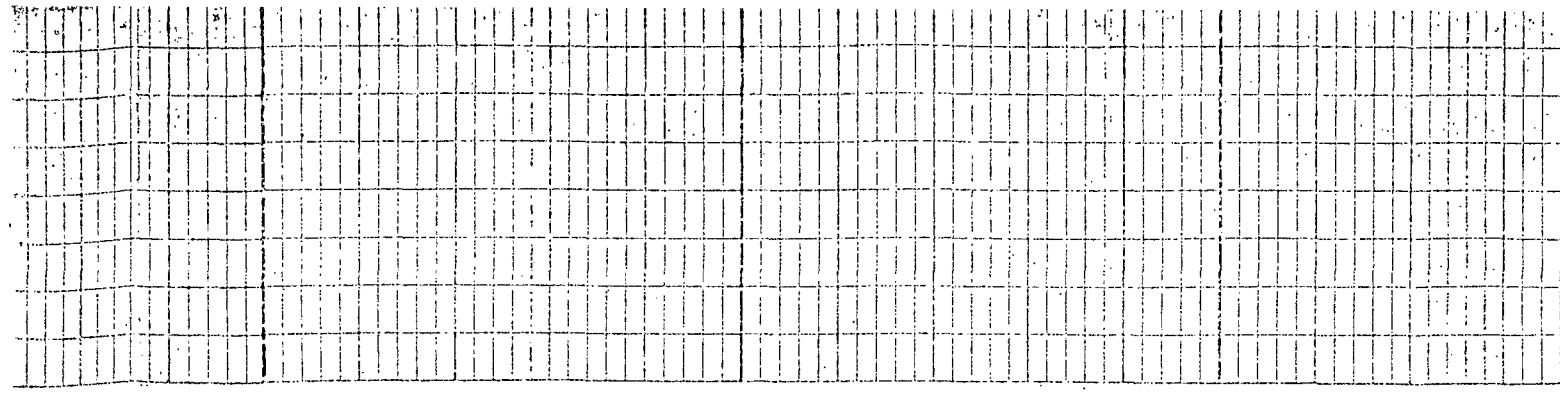


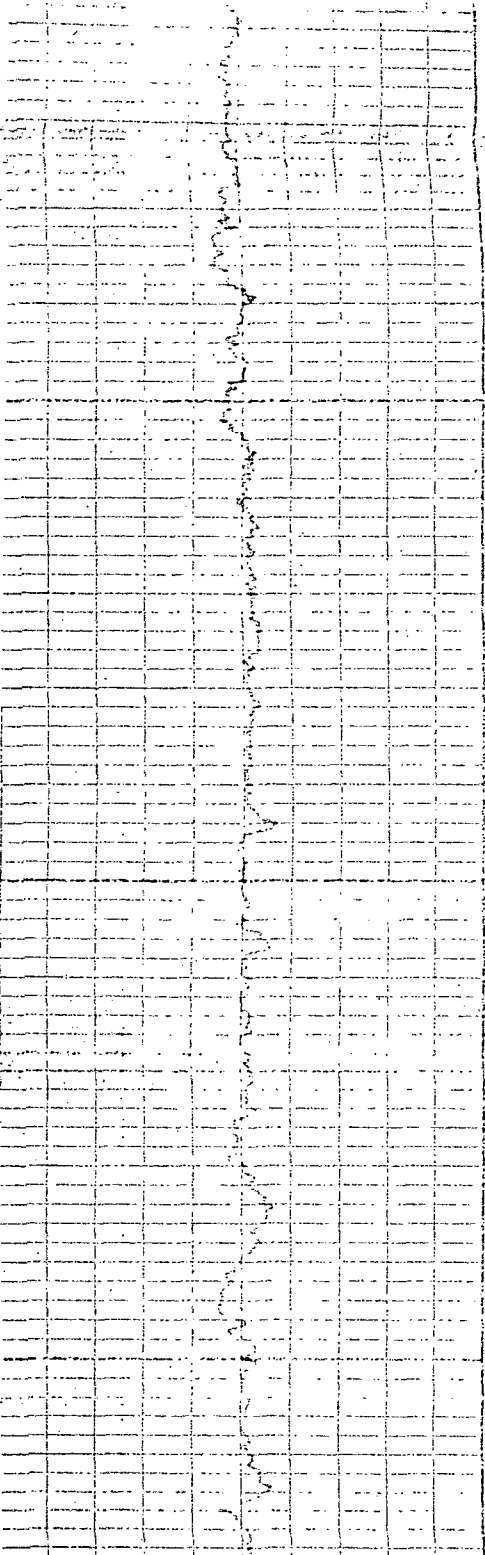
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UNABLE TO LOC INVERTAL  
12601 to 14591 BEFORM  
10 3/4" casing RUN  
BECAUSE OF HEAVY MUD IN  
BOTTOM OF HOLE.

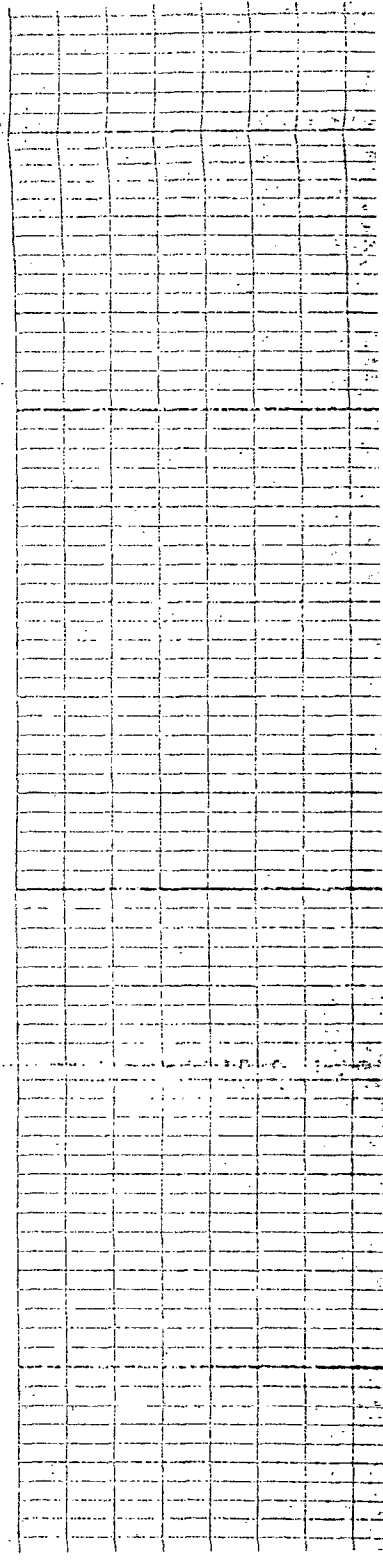
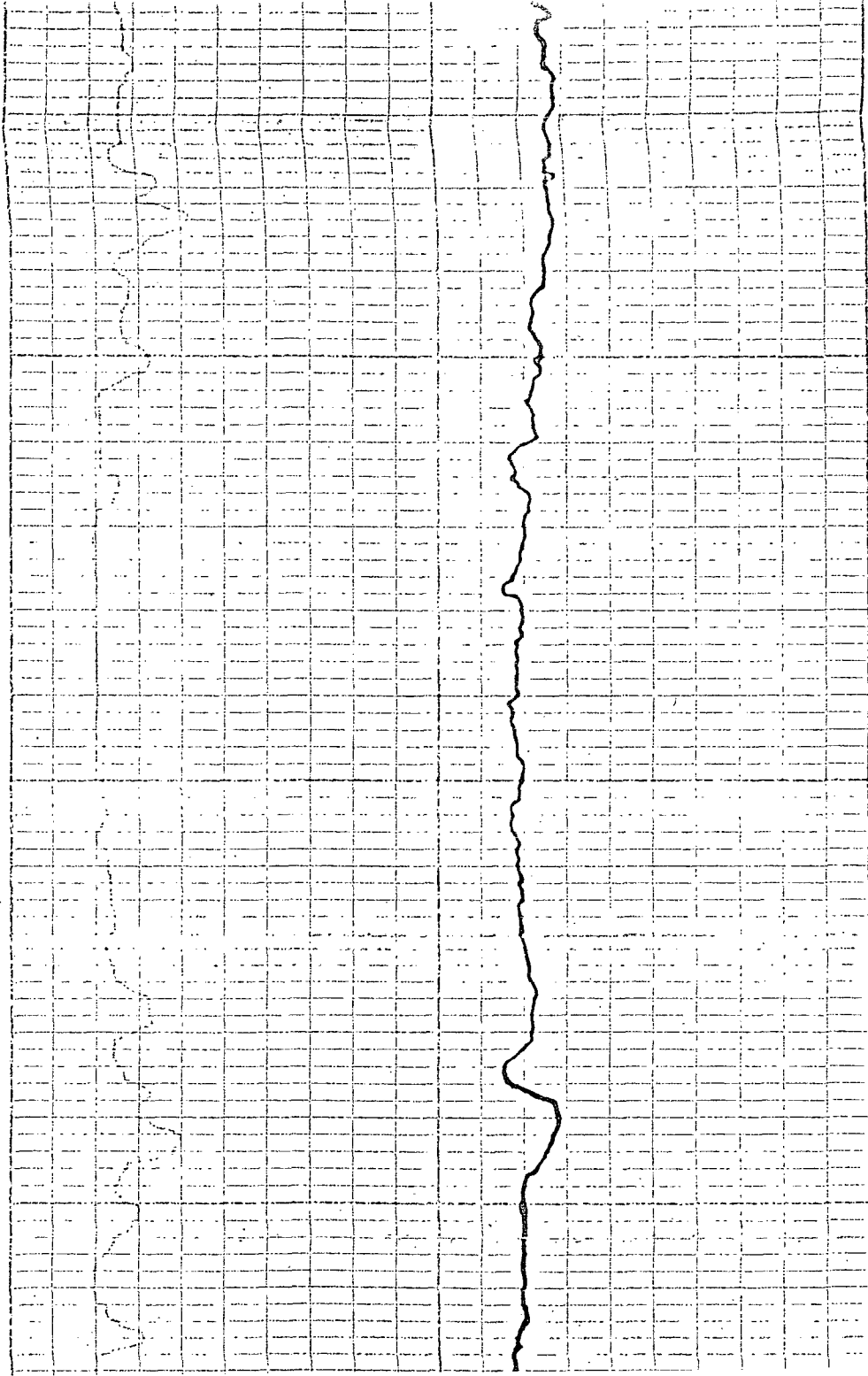
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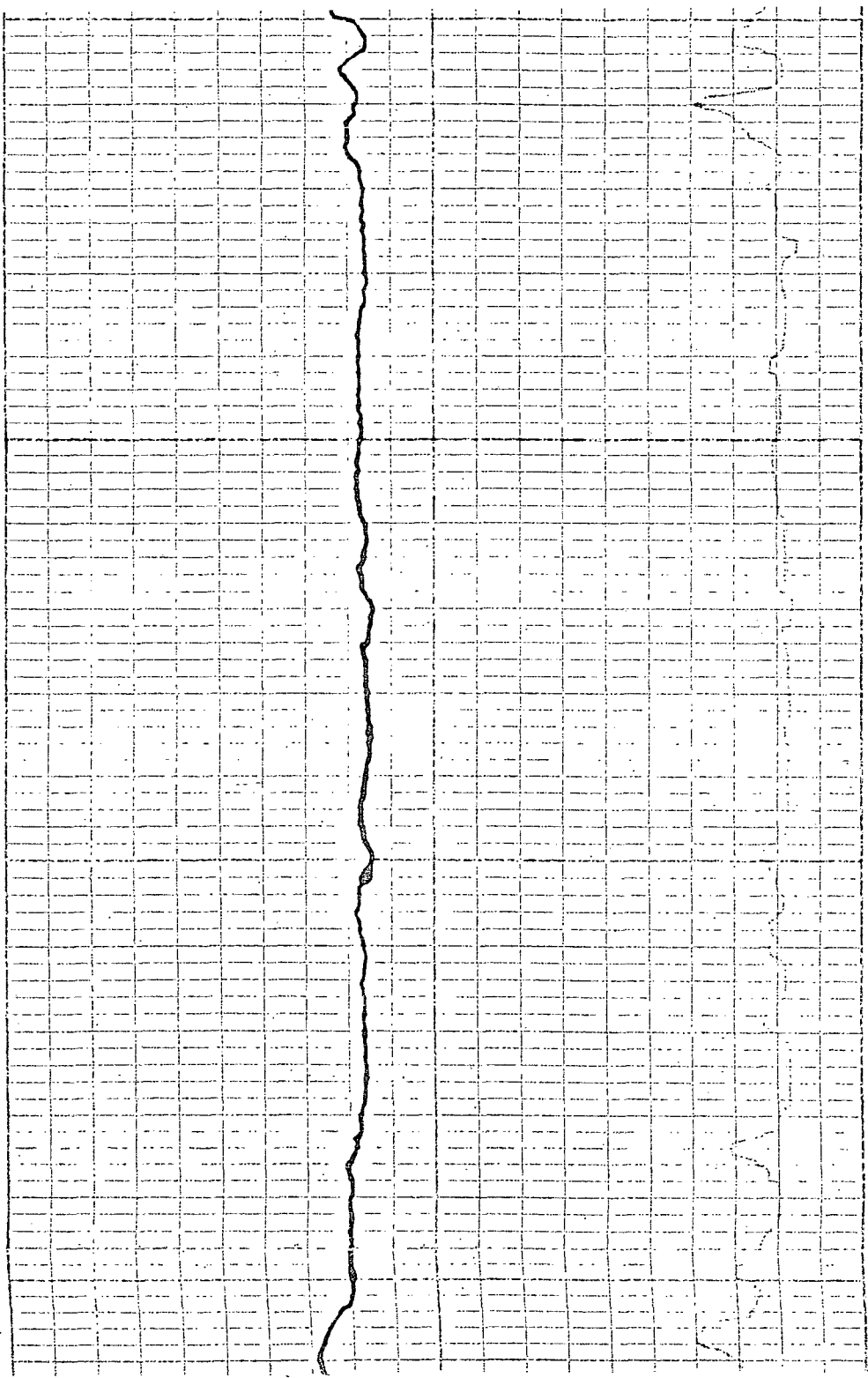
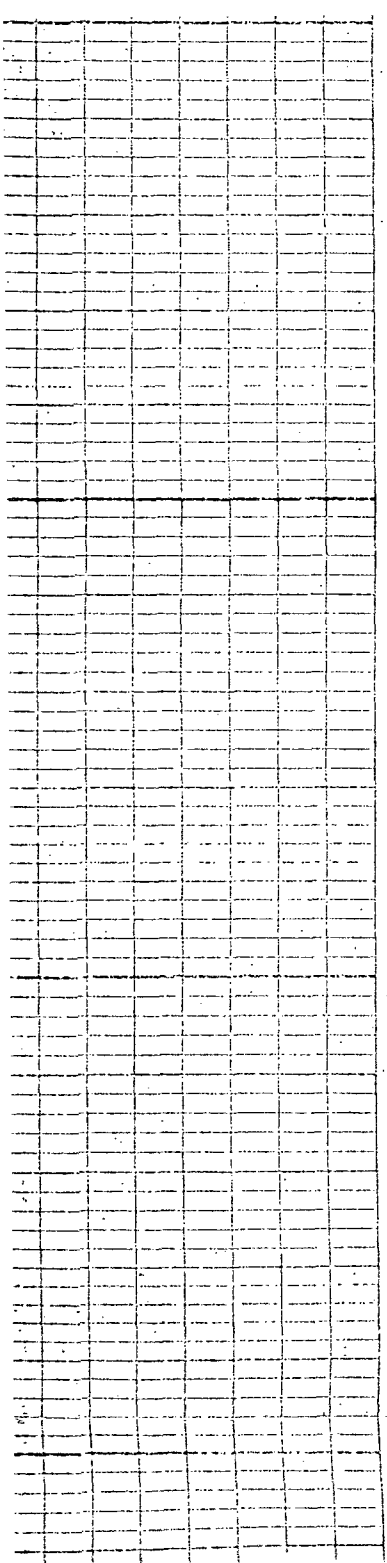






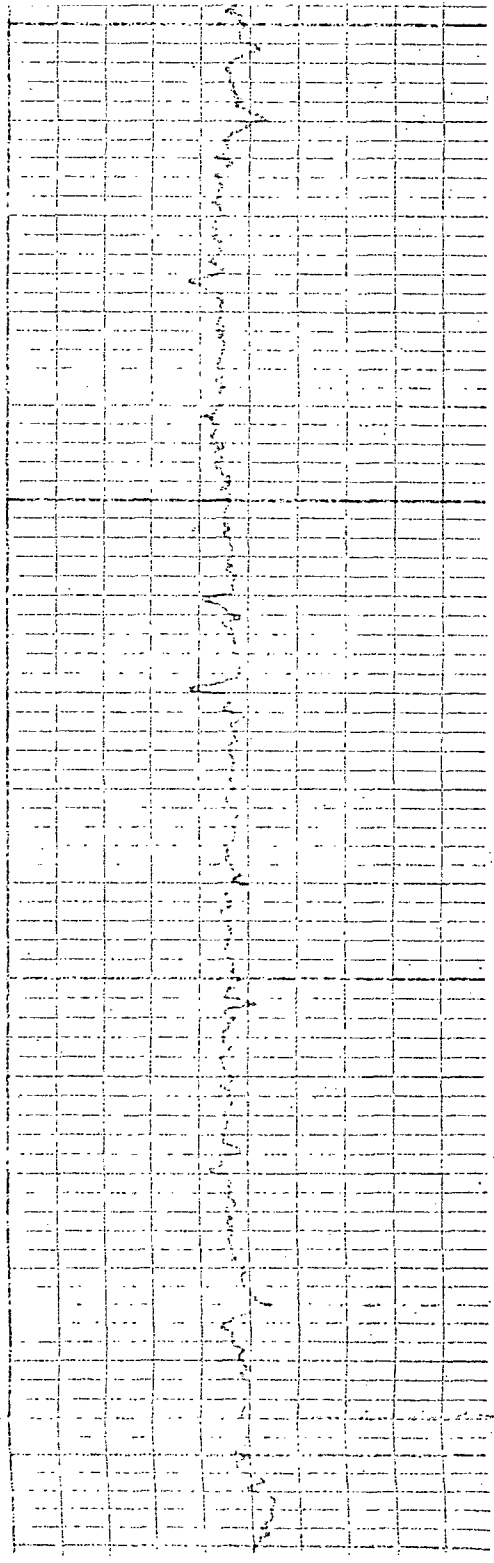
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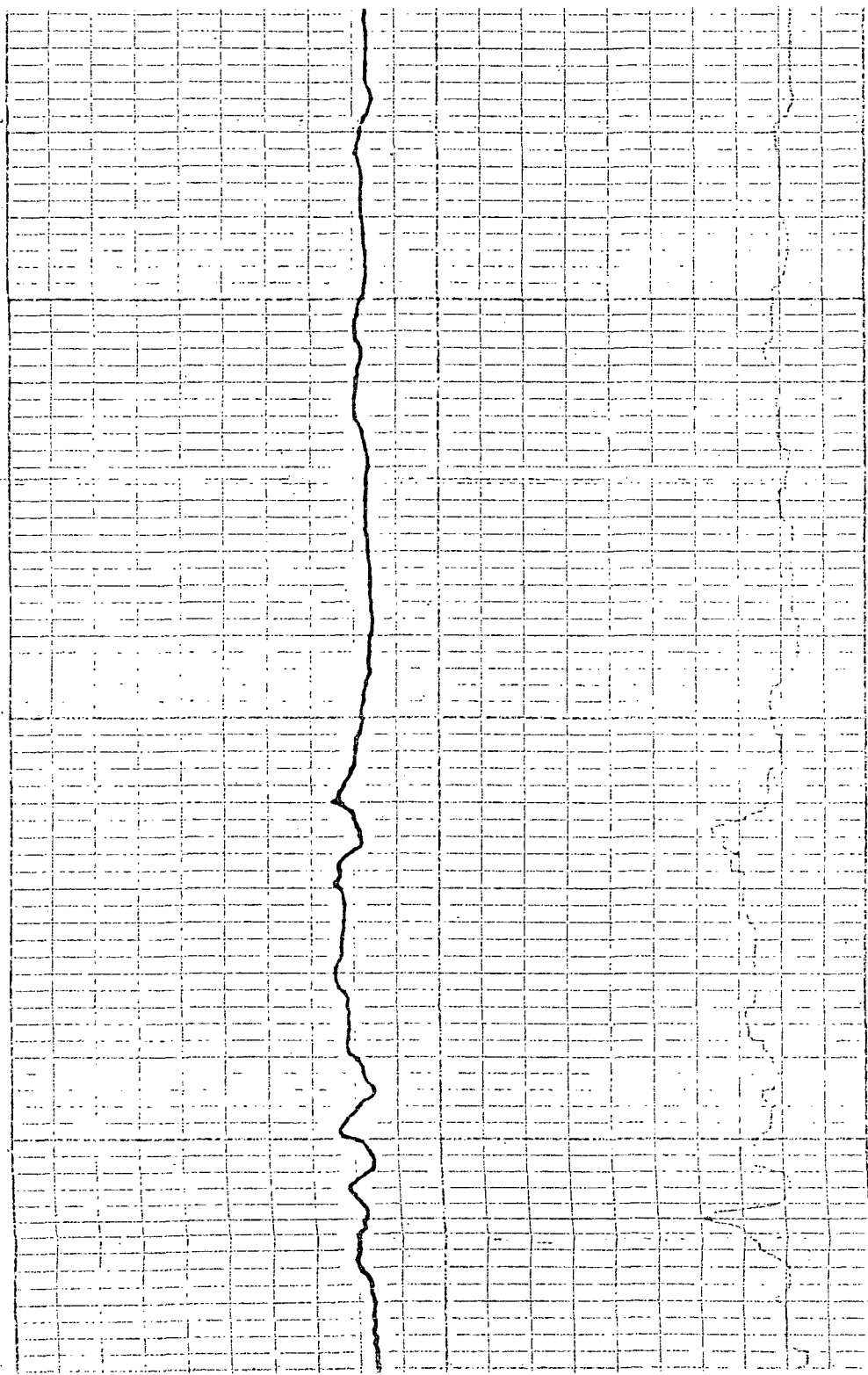
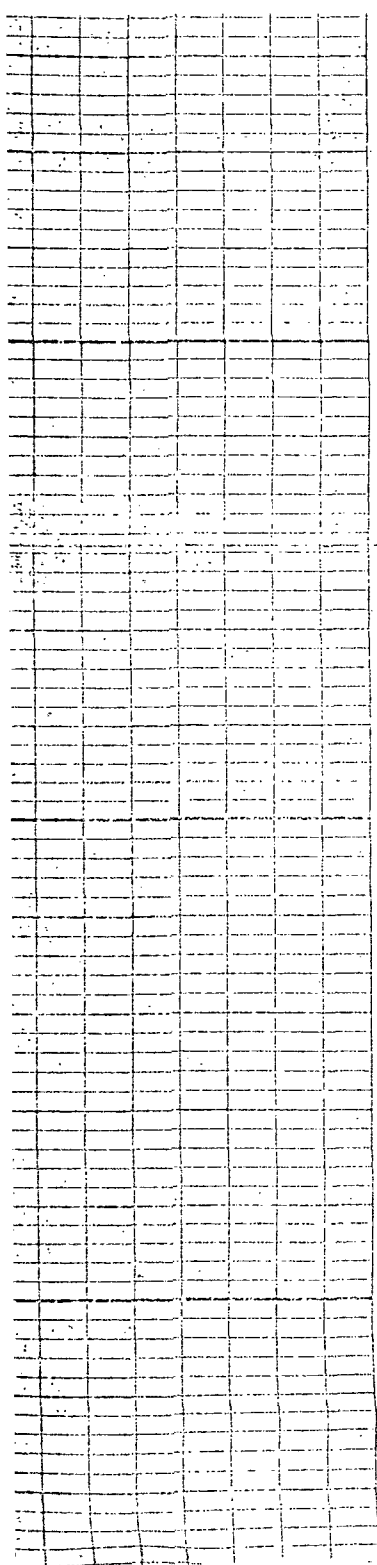


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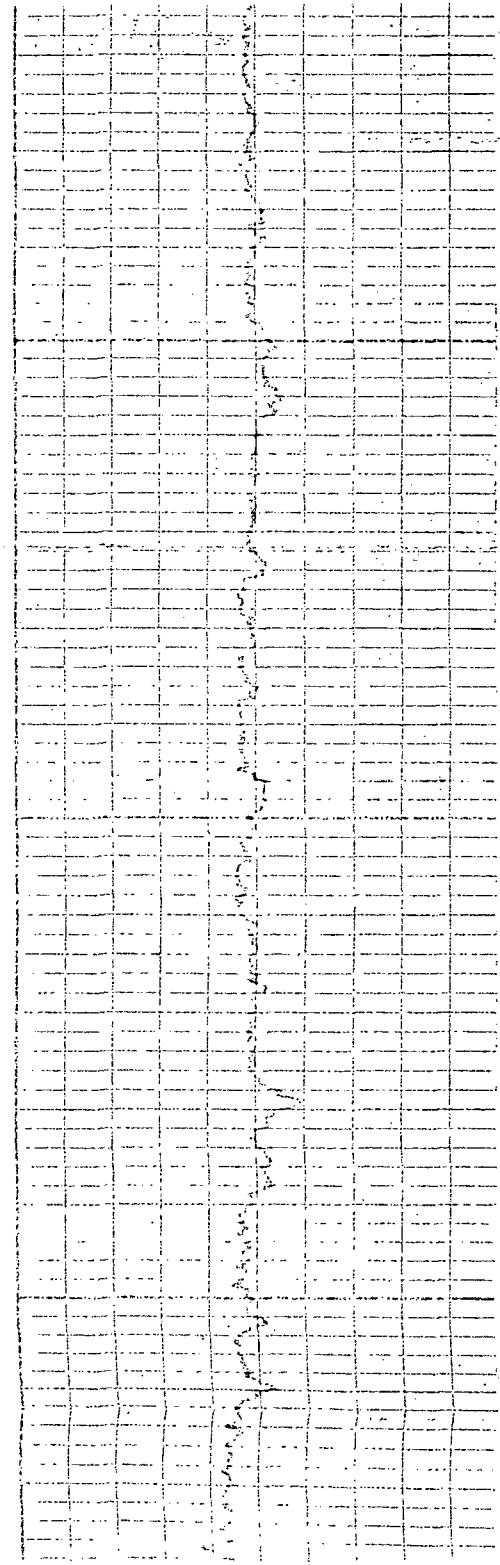


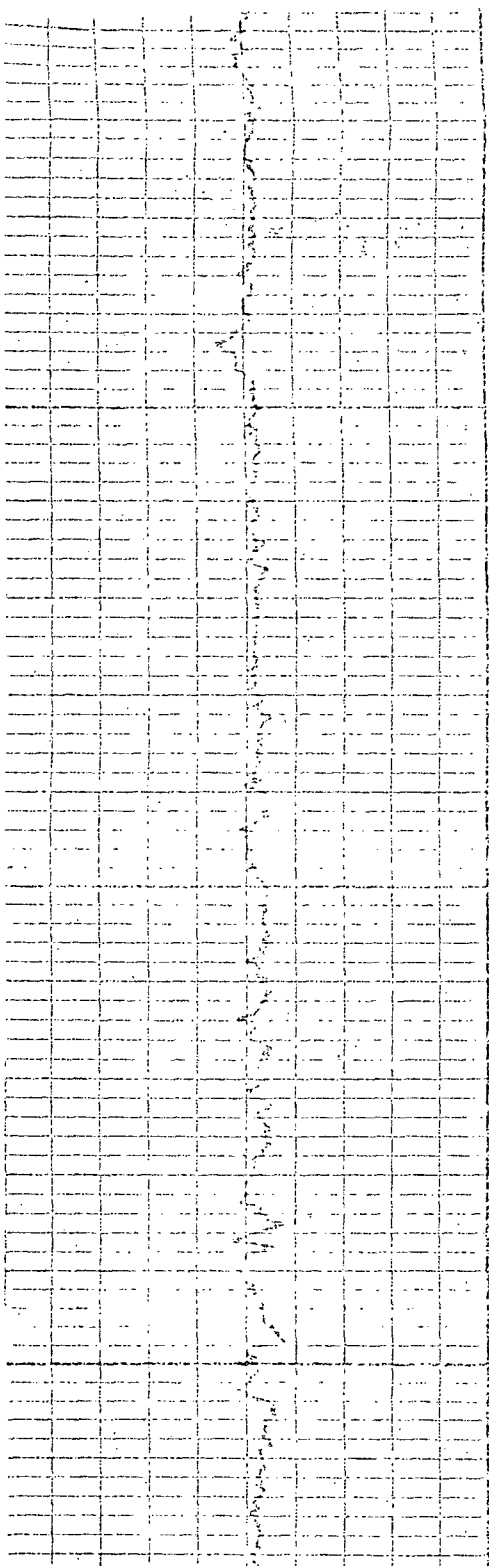




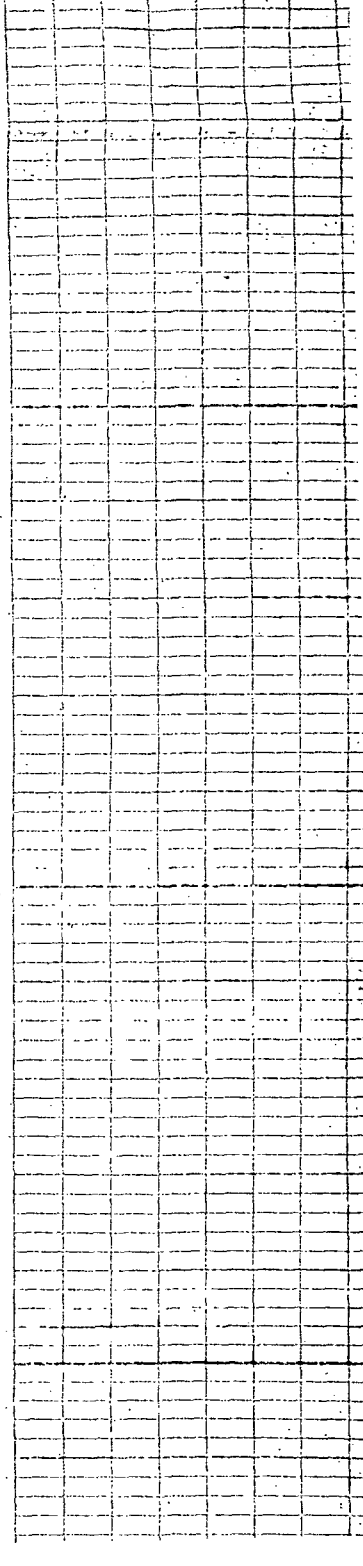
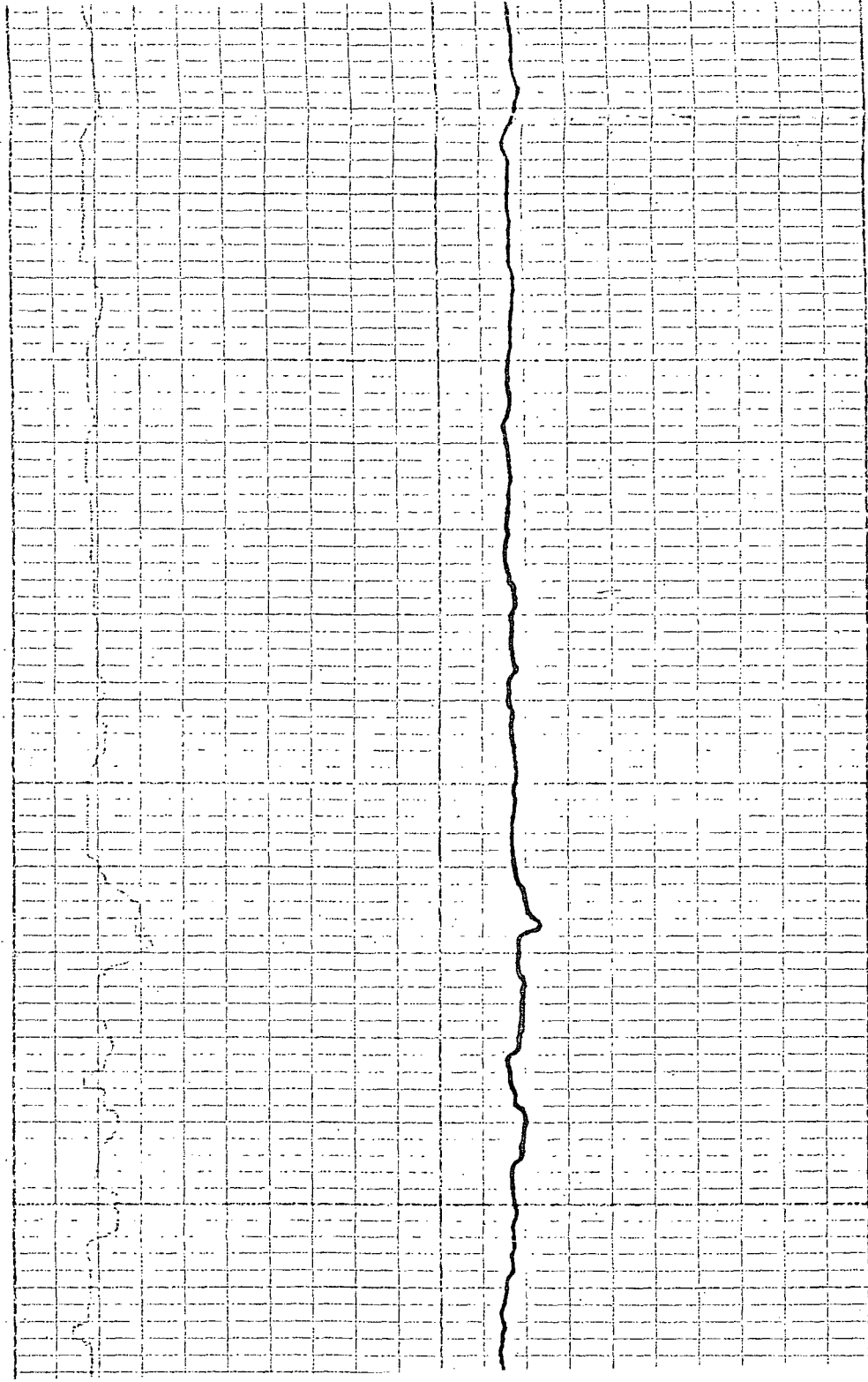
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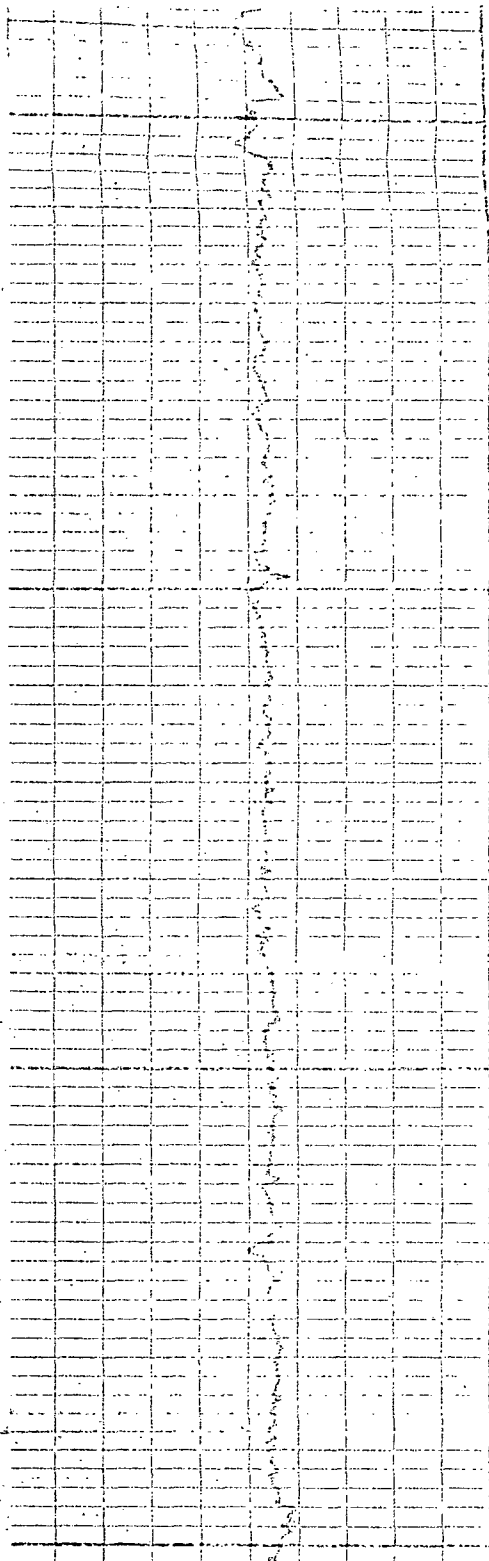
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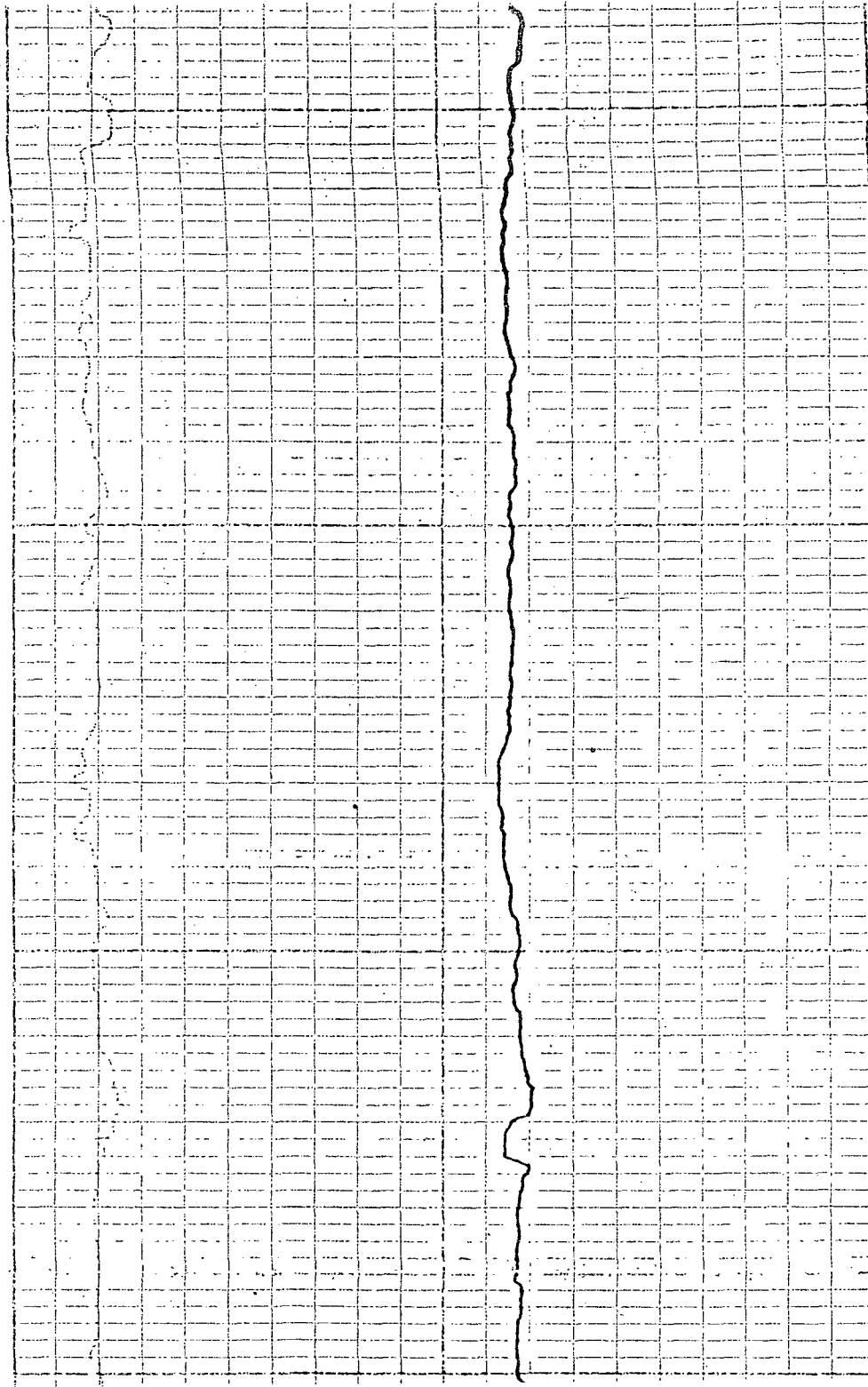


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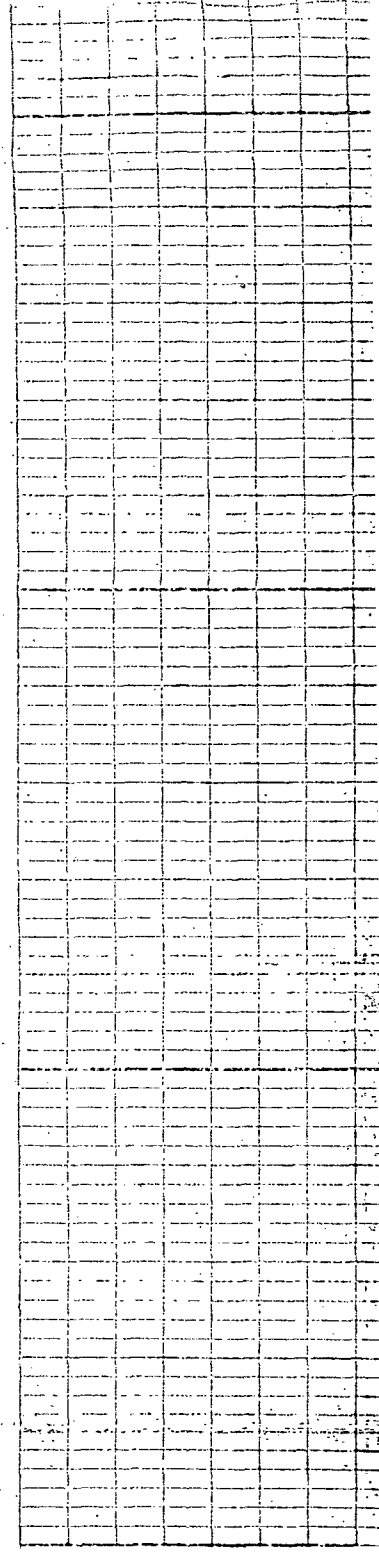


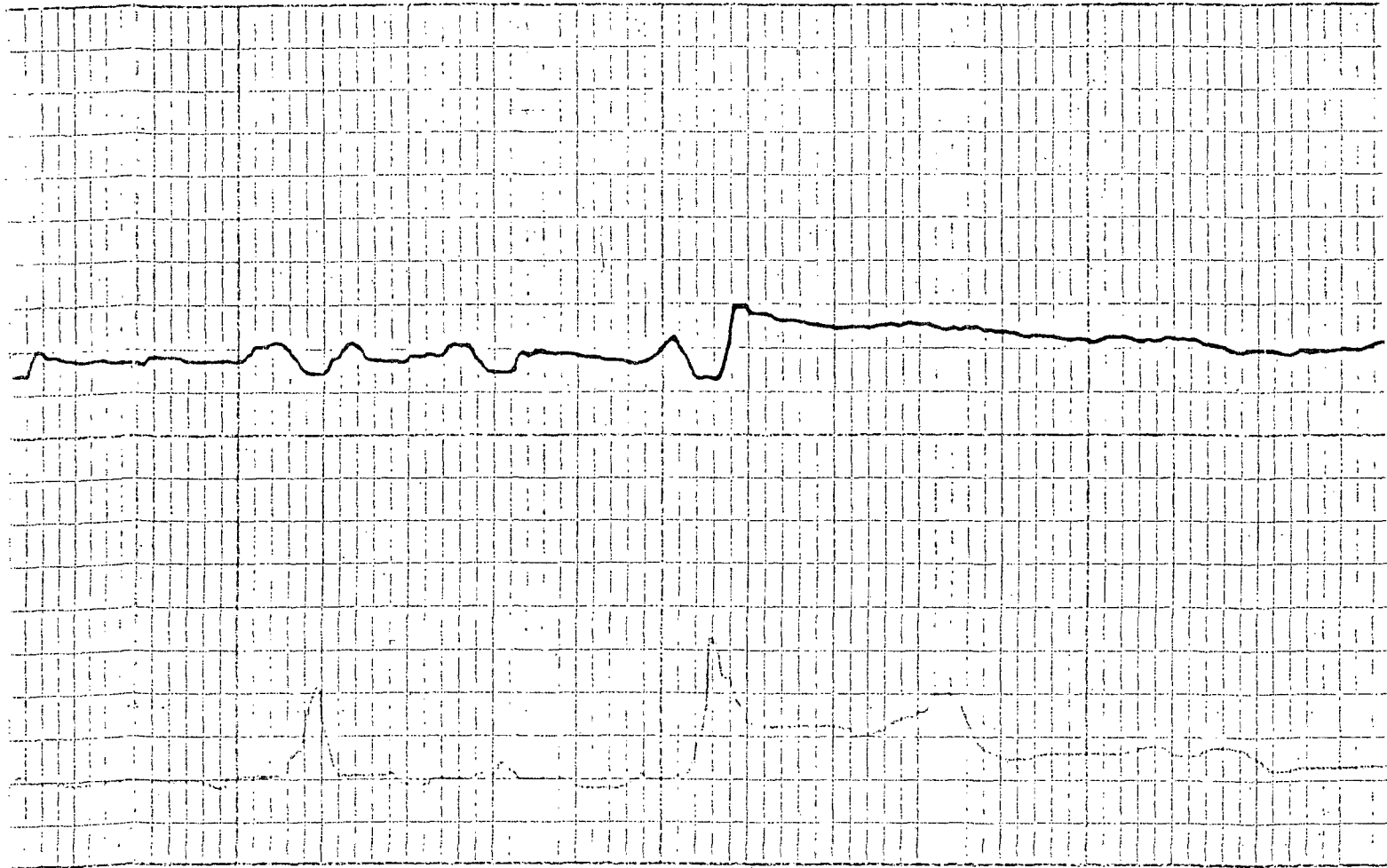
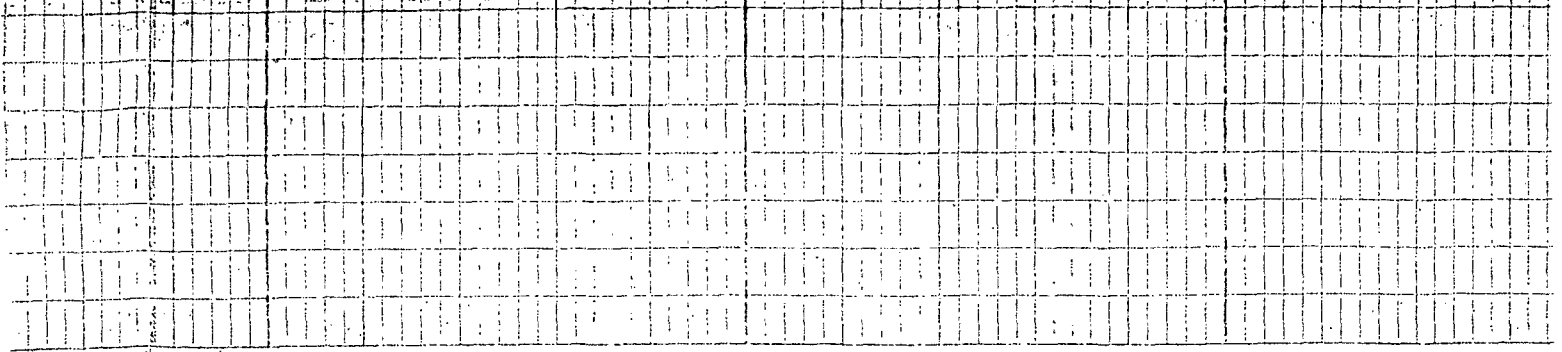


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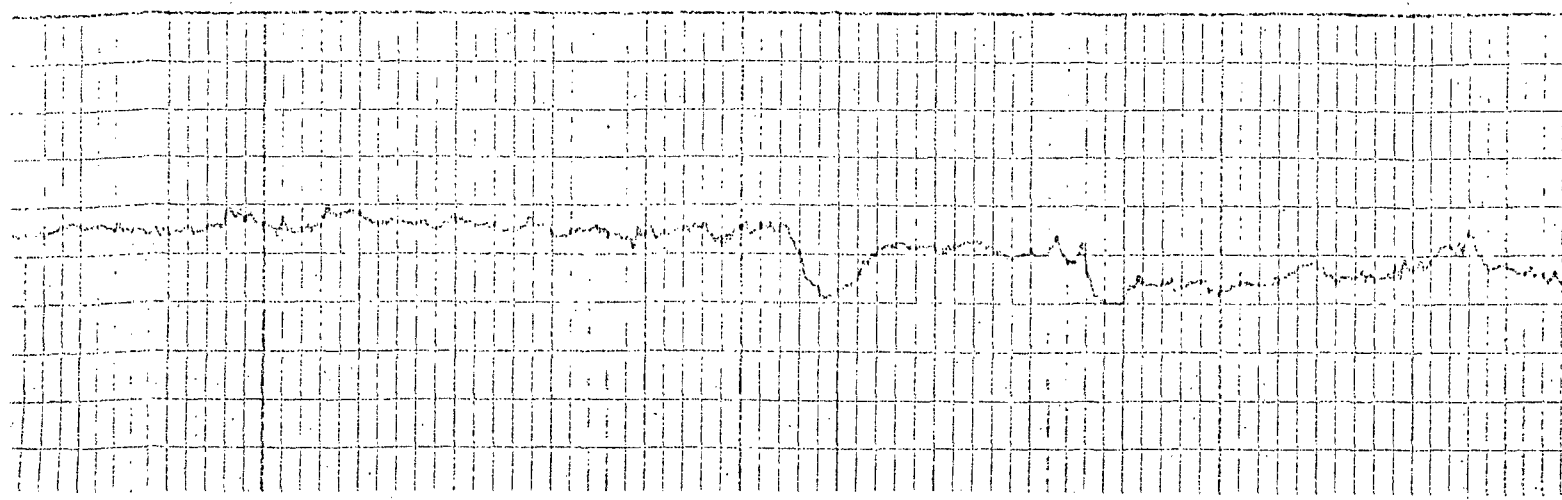
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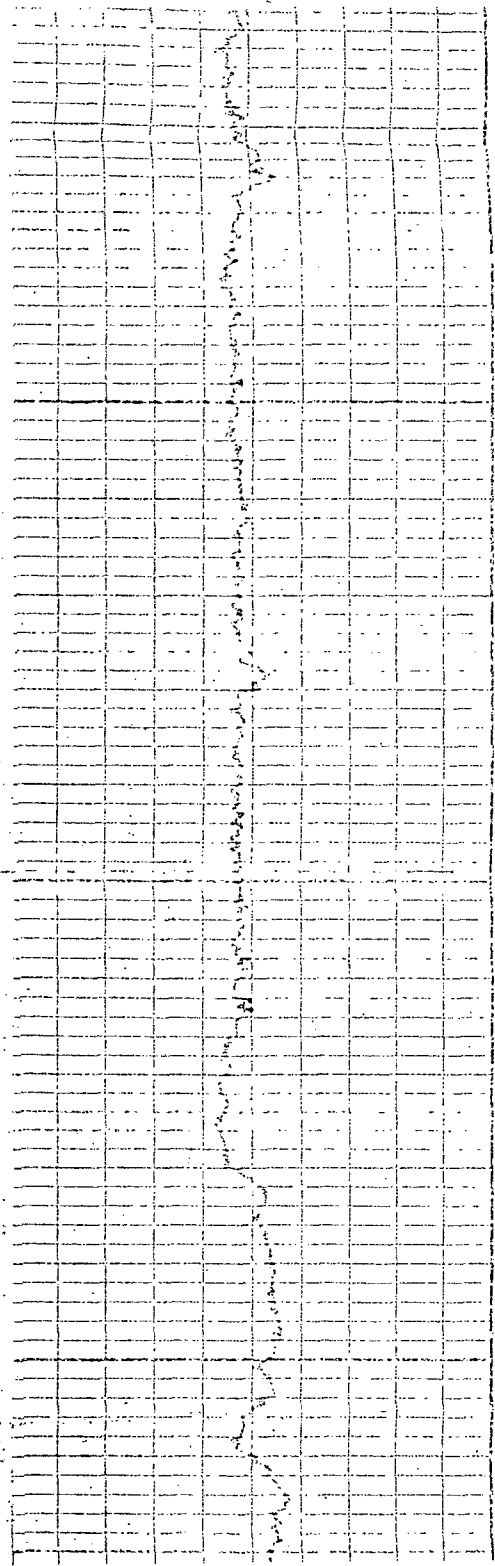




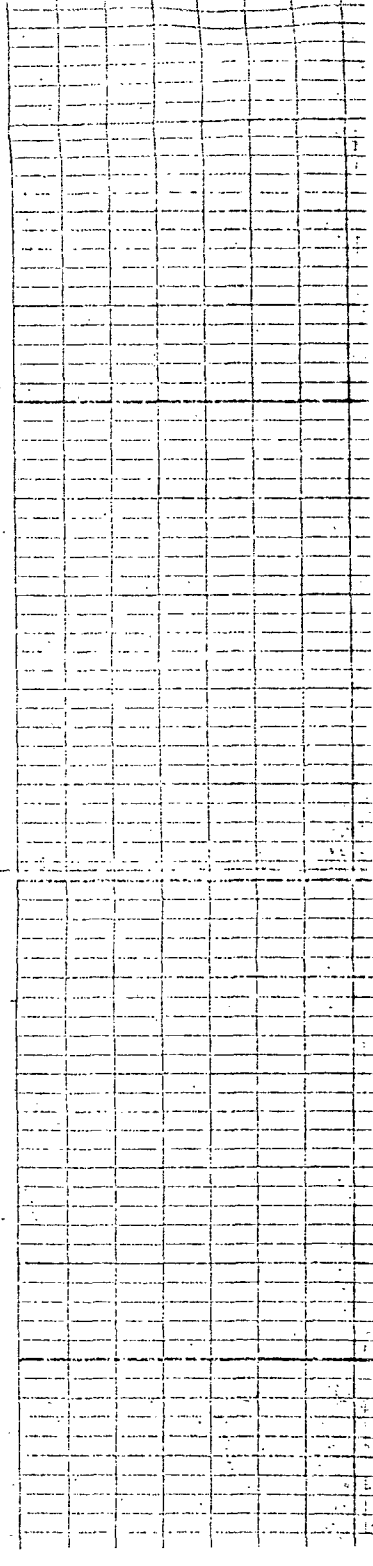
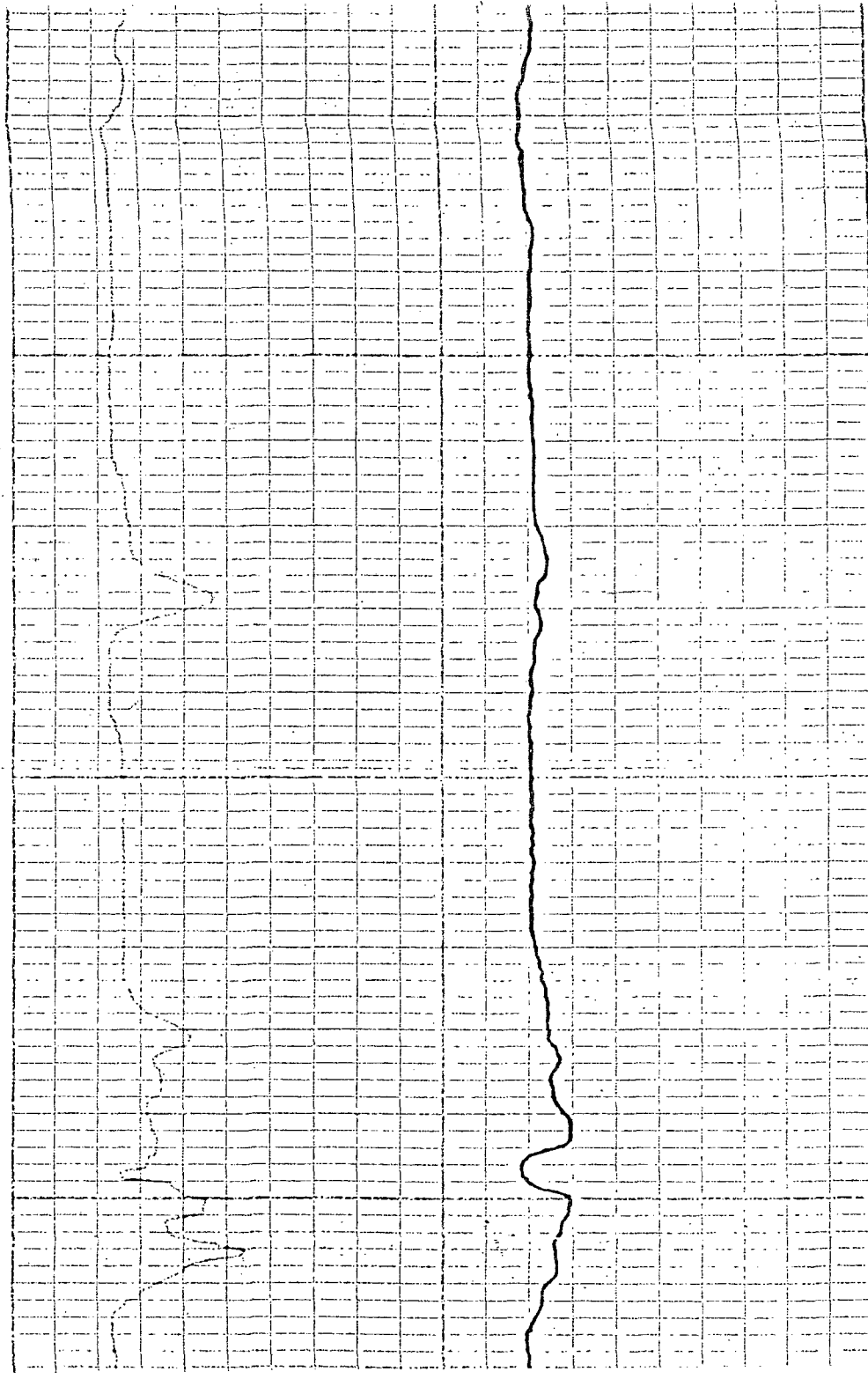
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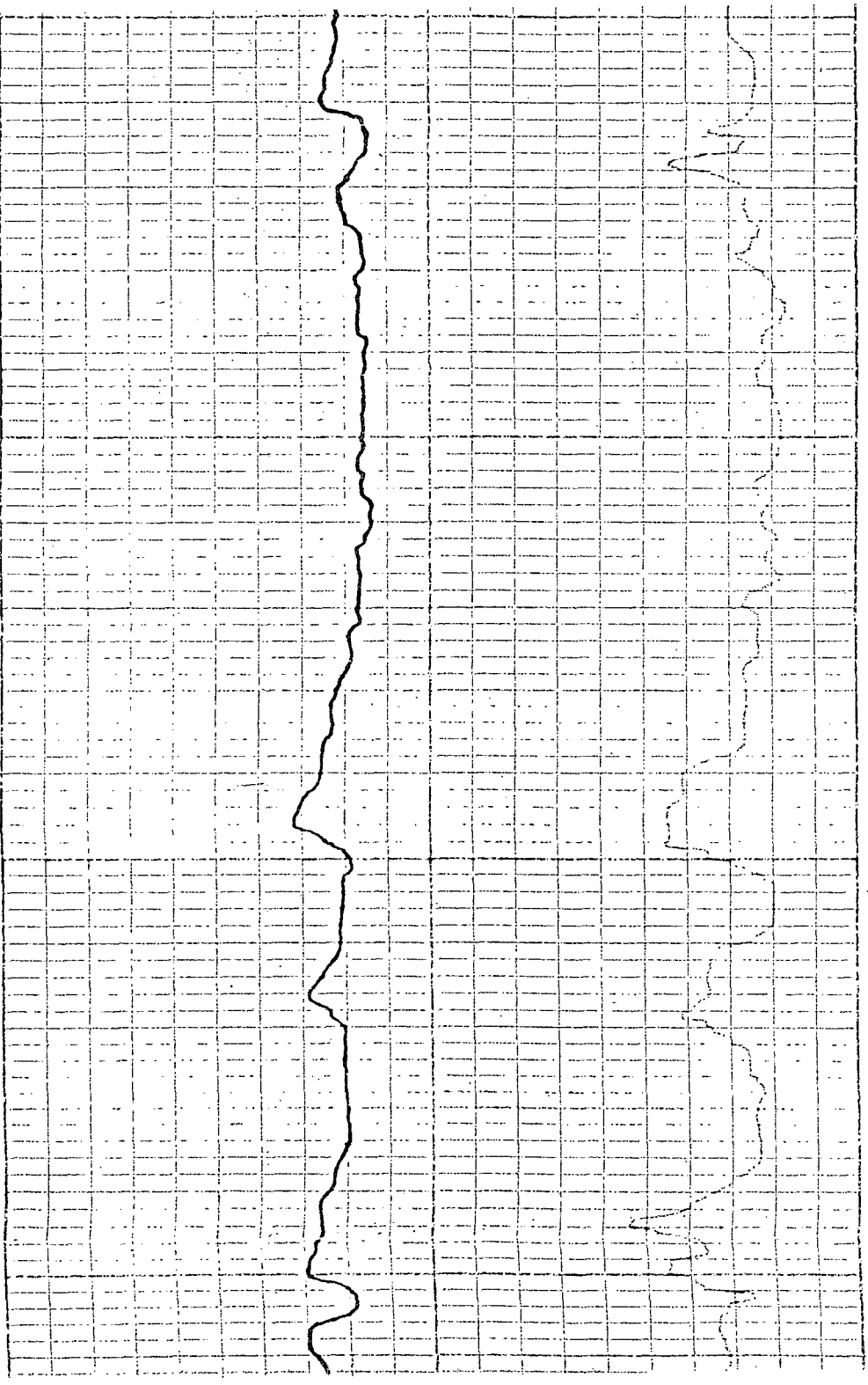
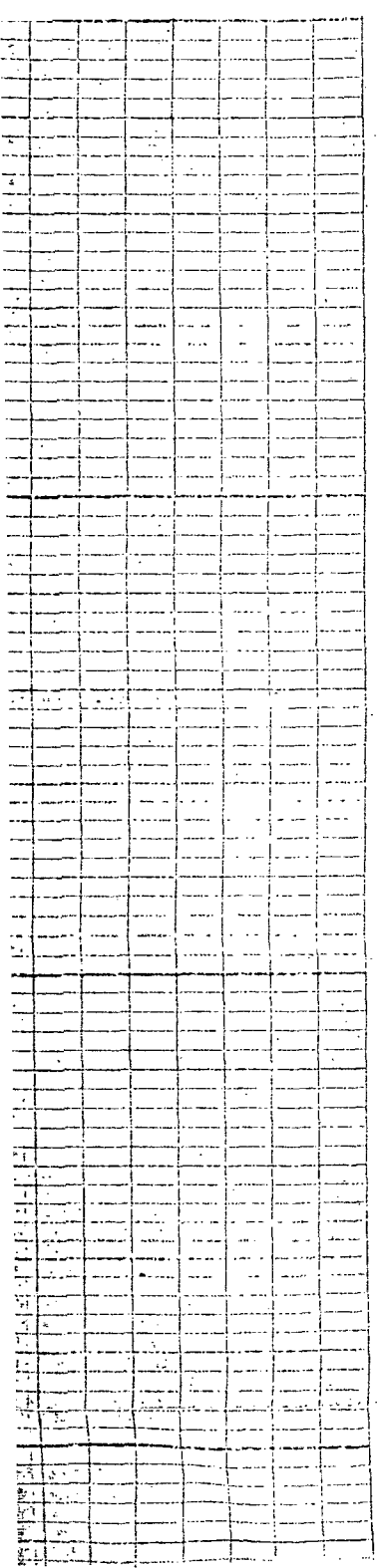
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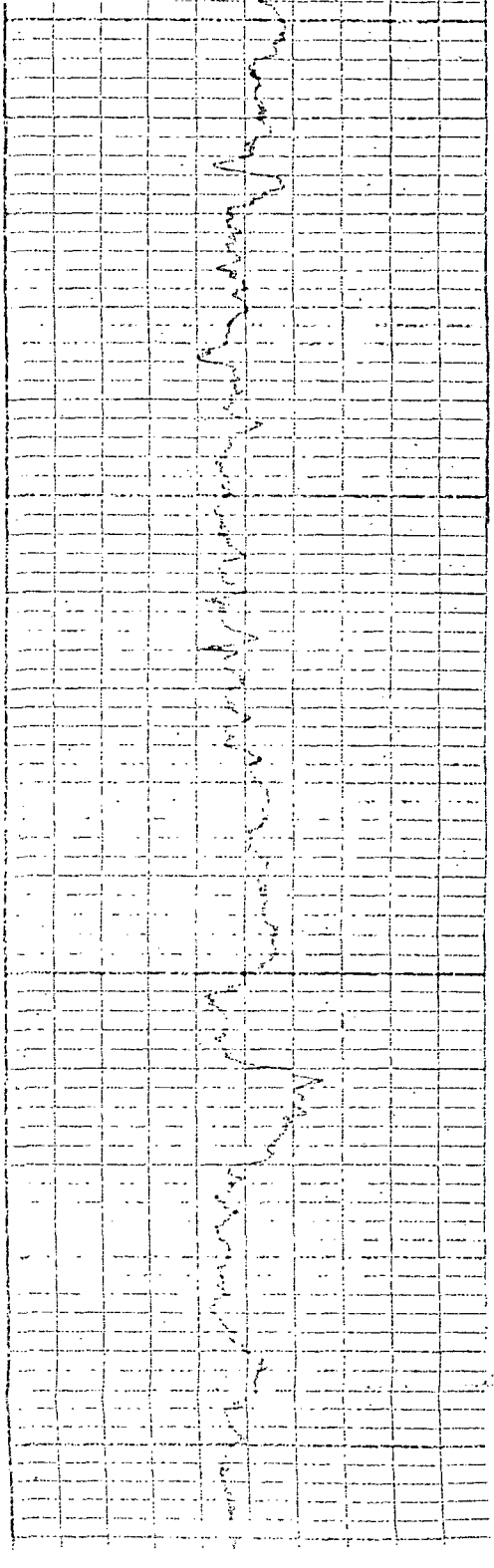


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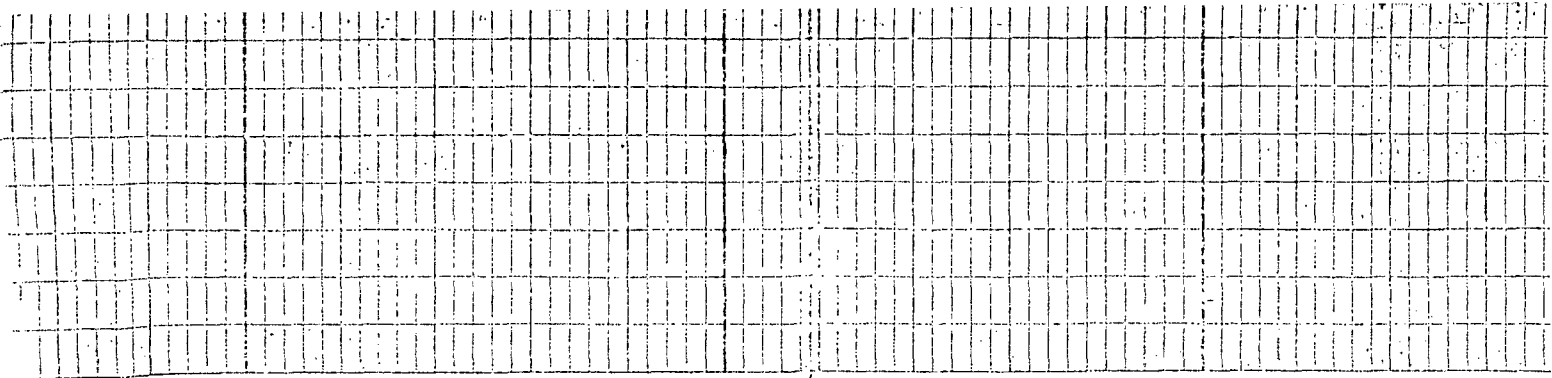




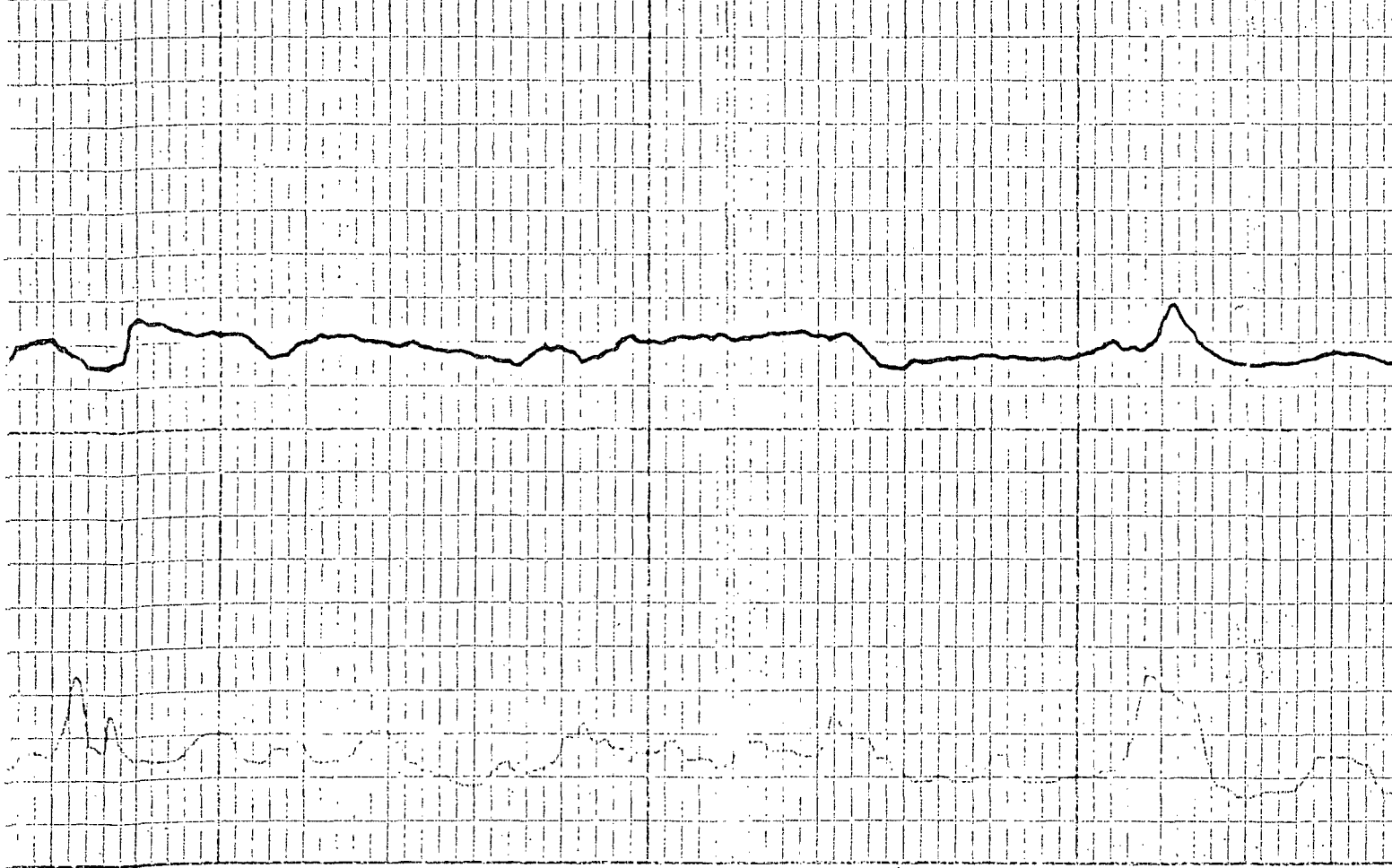
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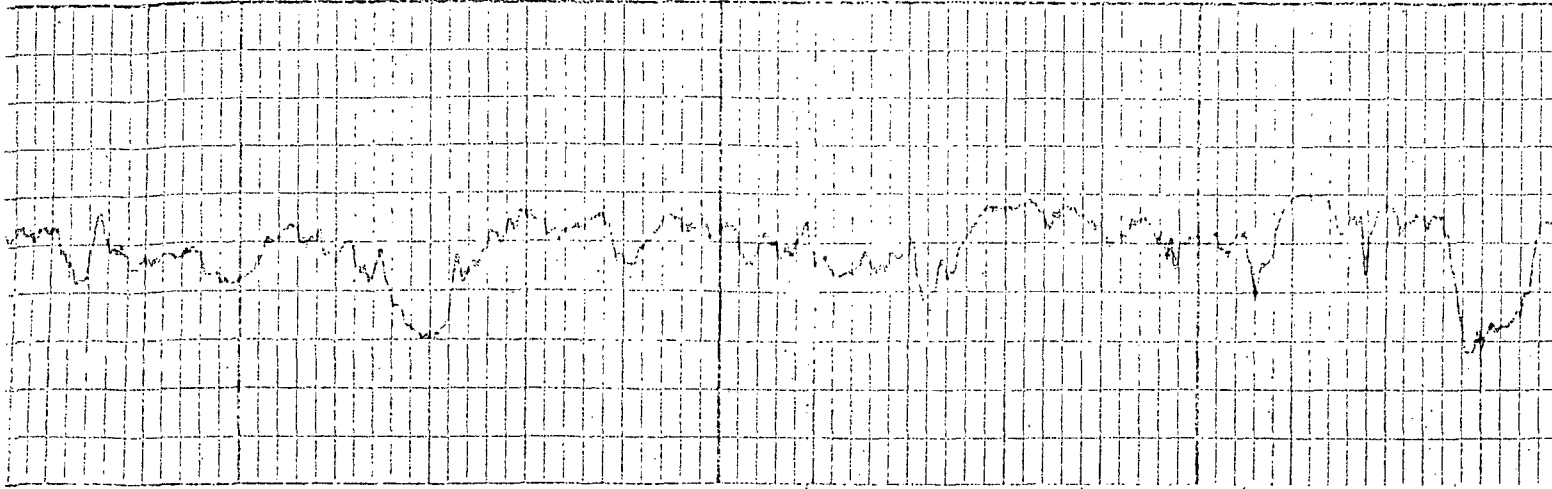
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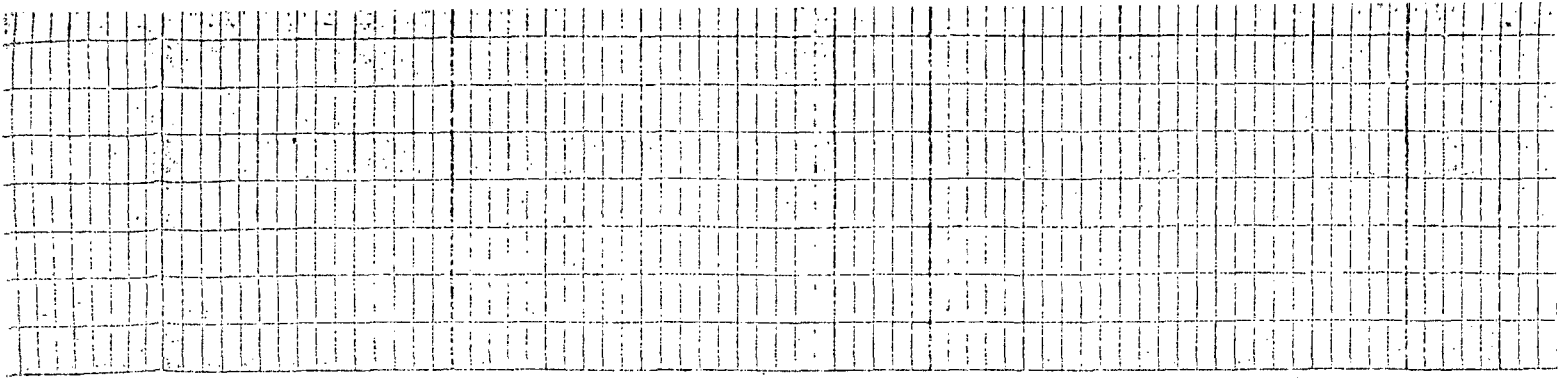
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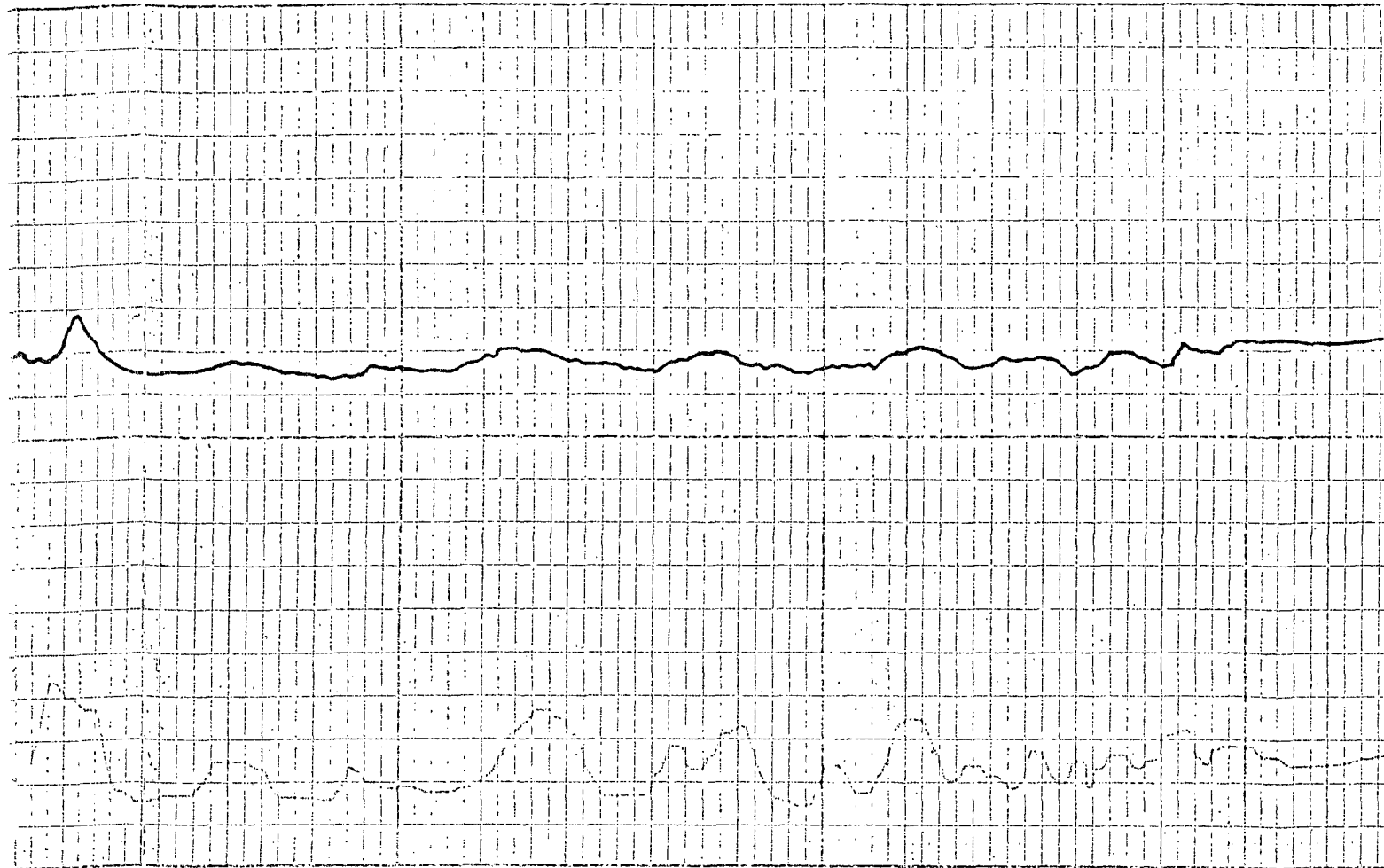
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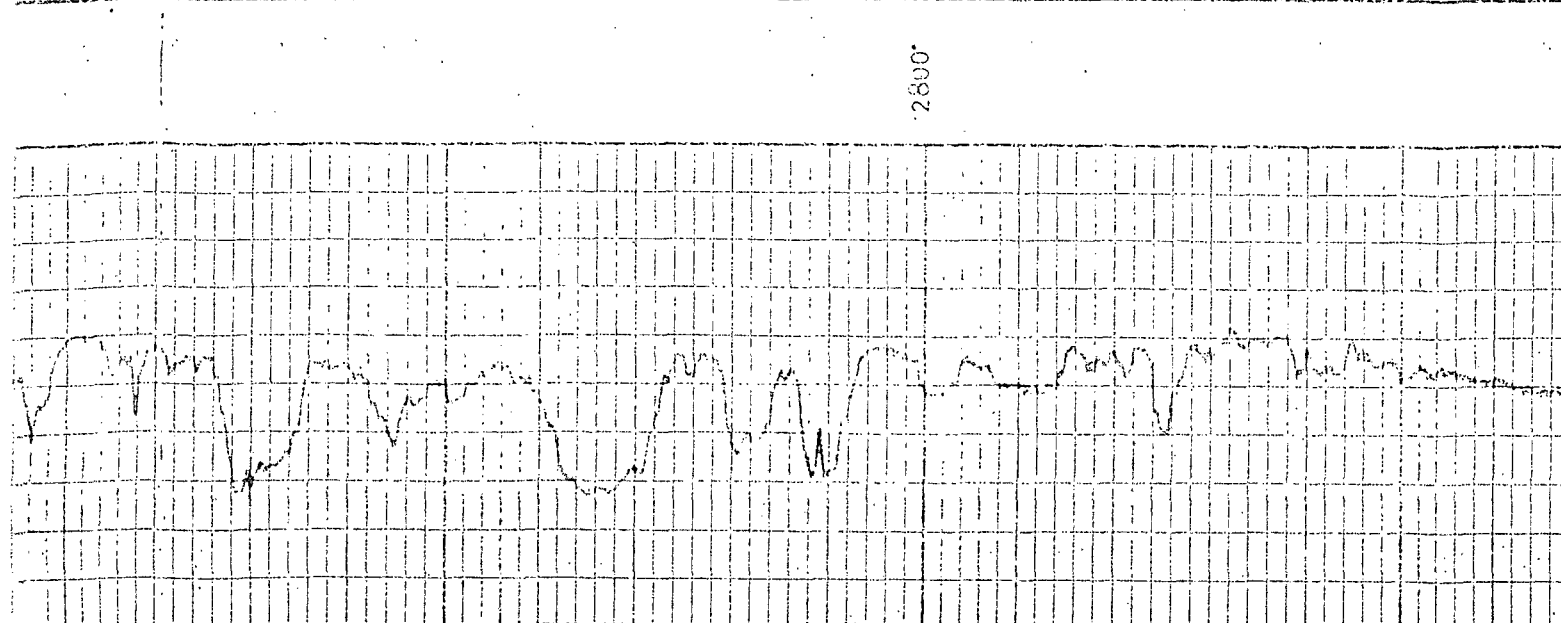




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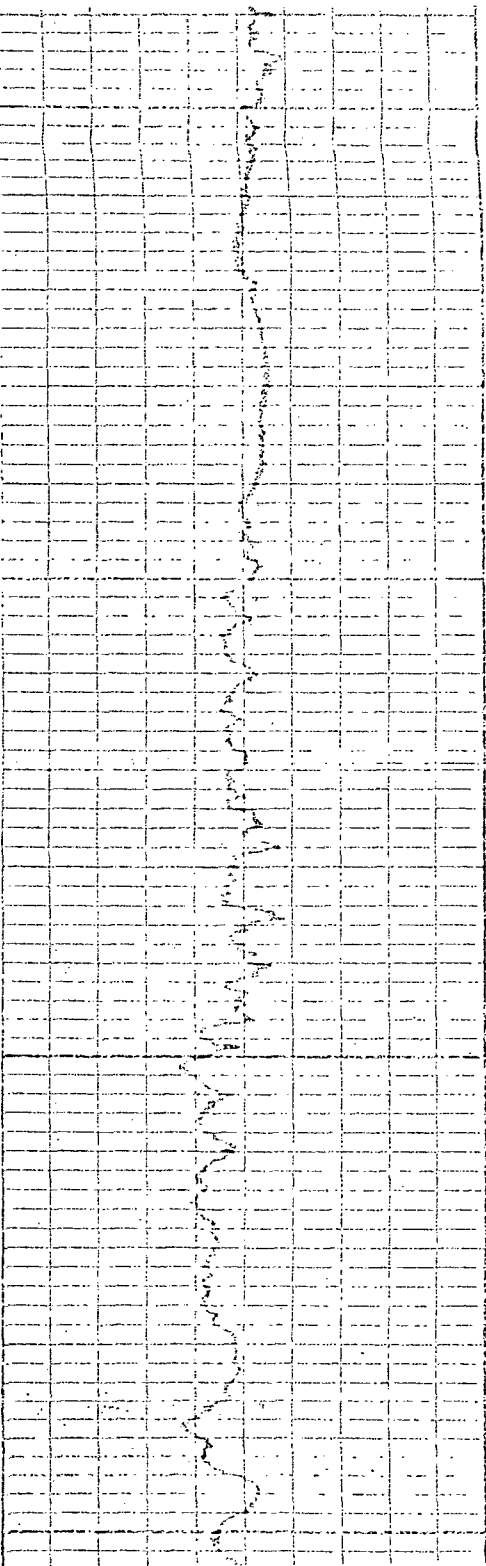


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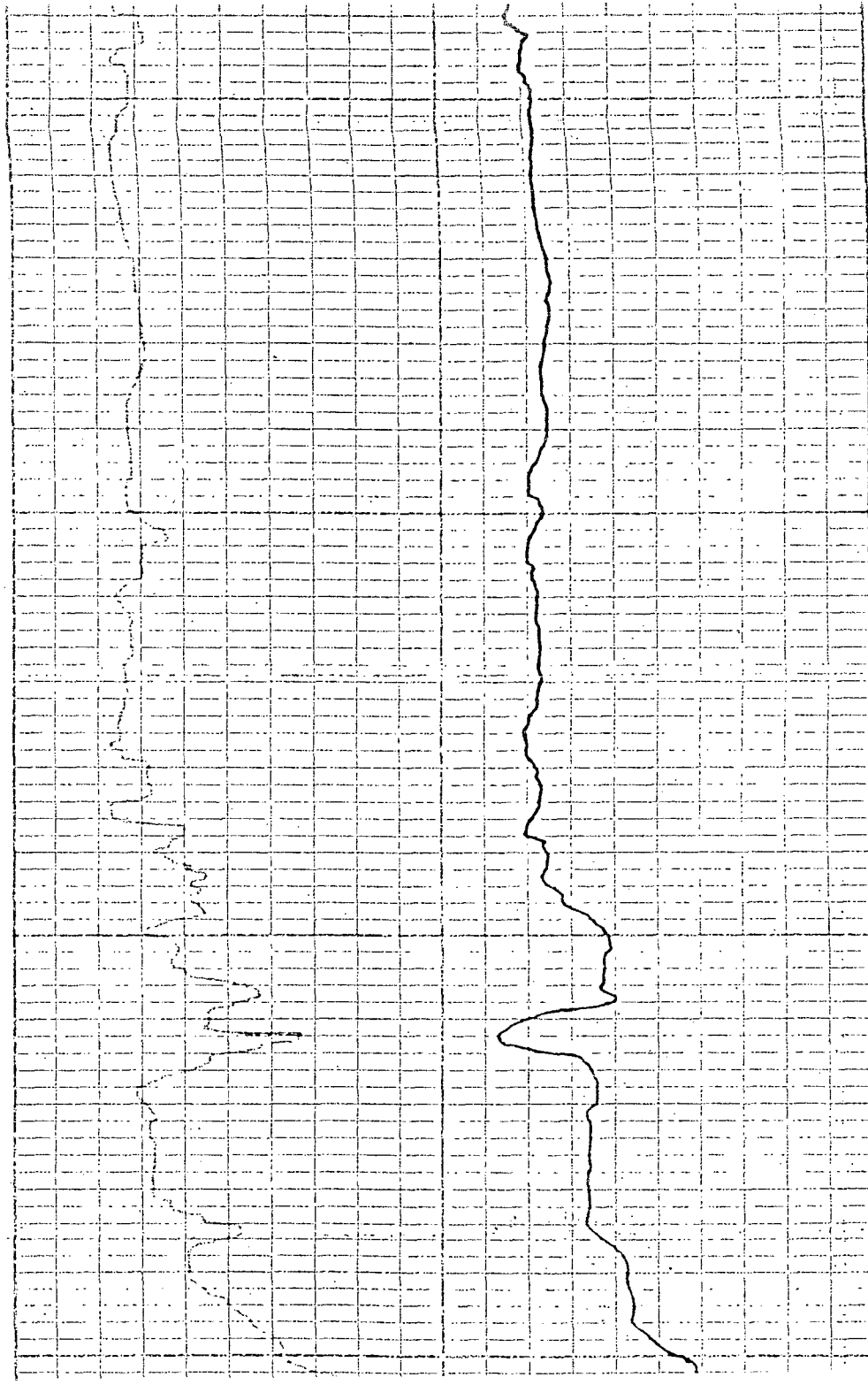


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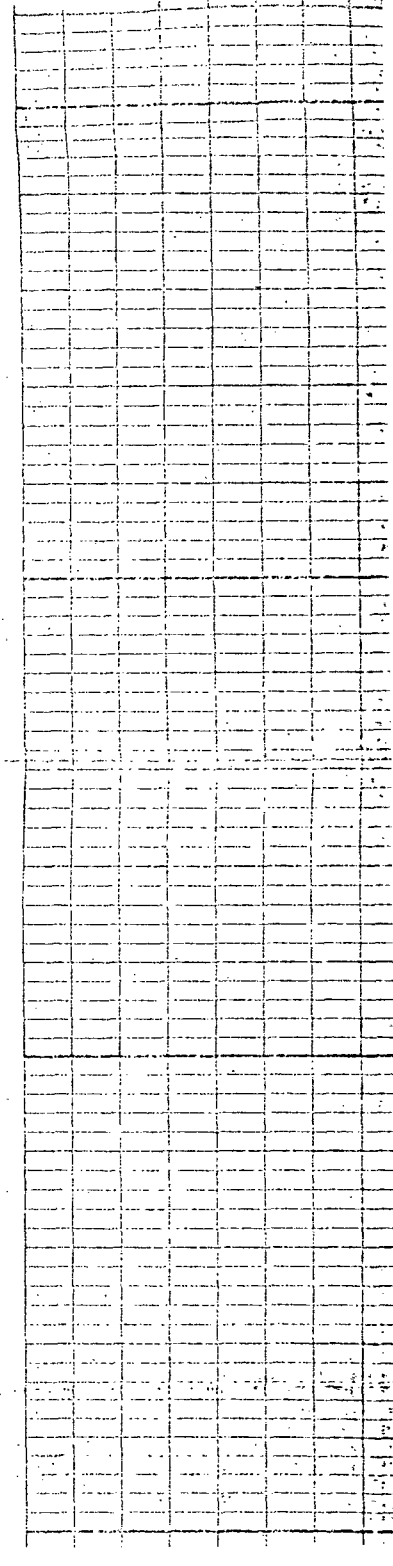


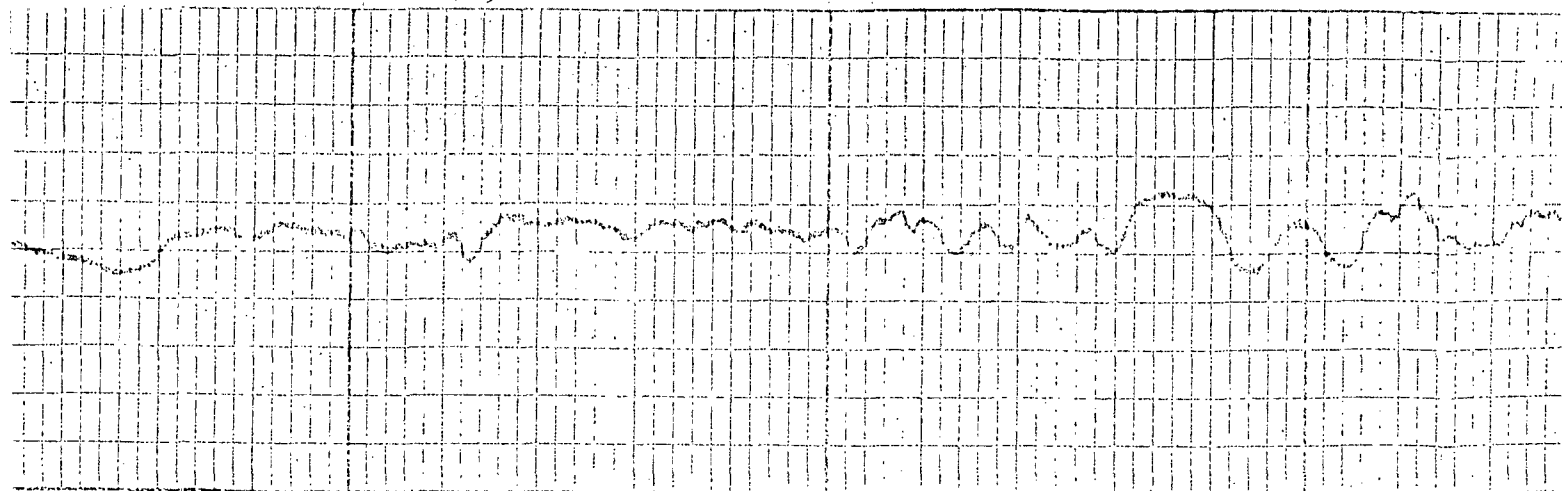


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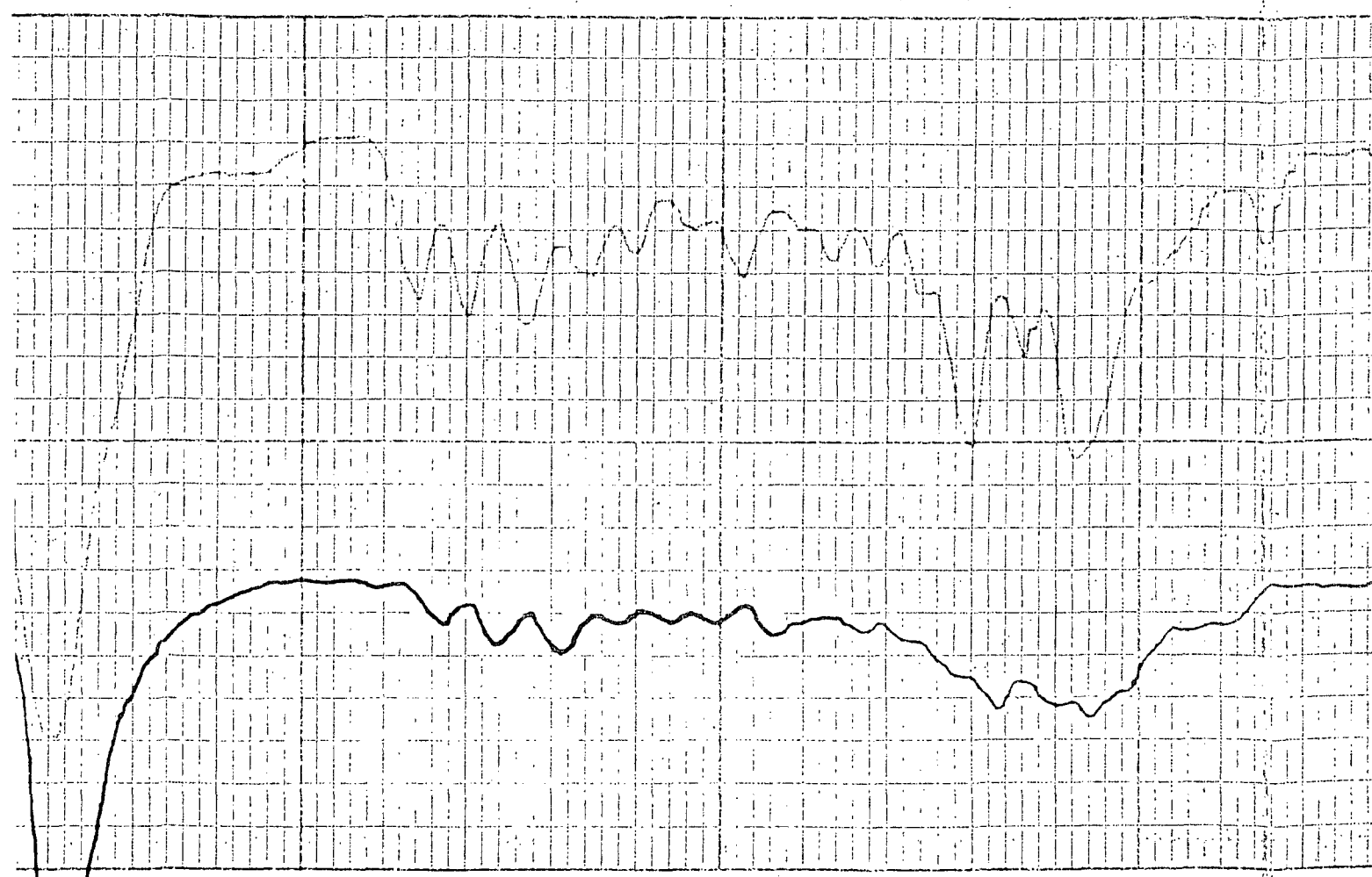
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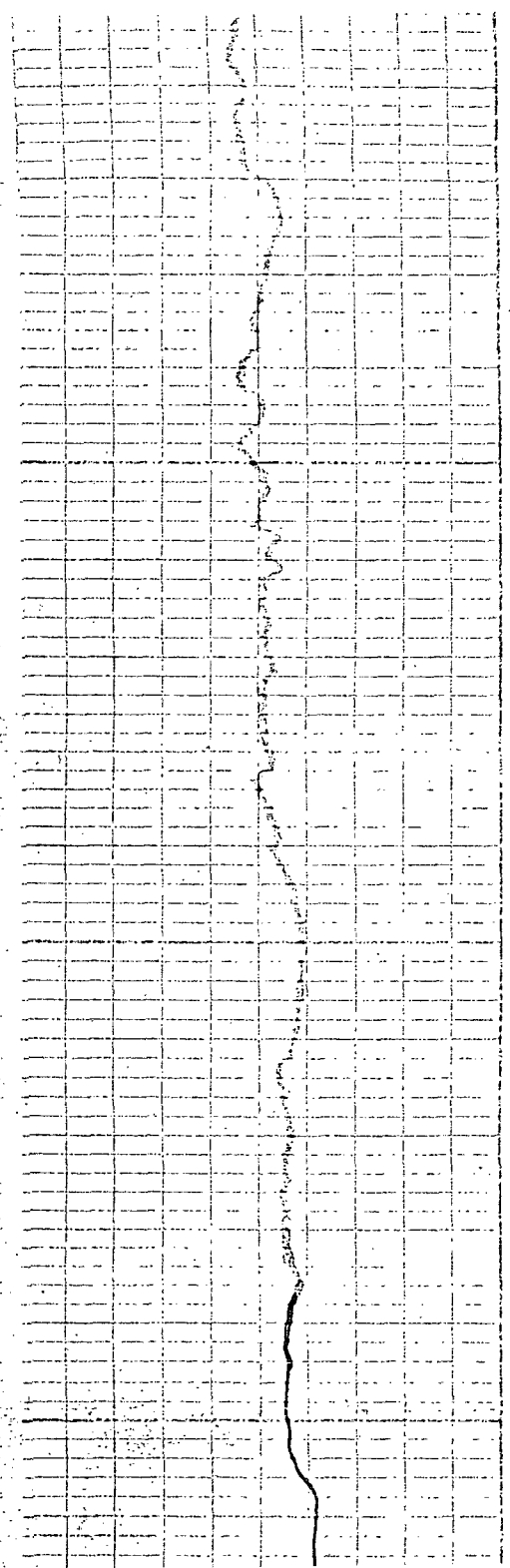




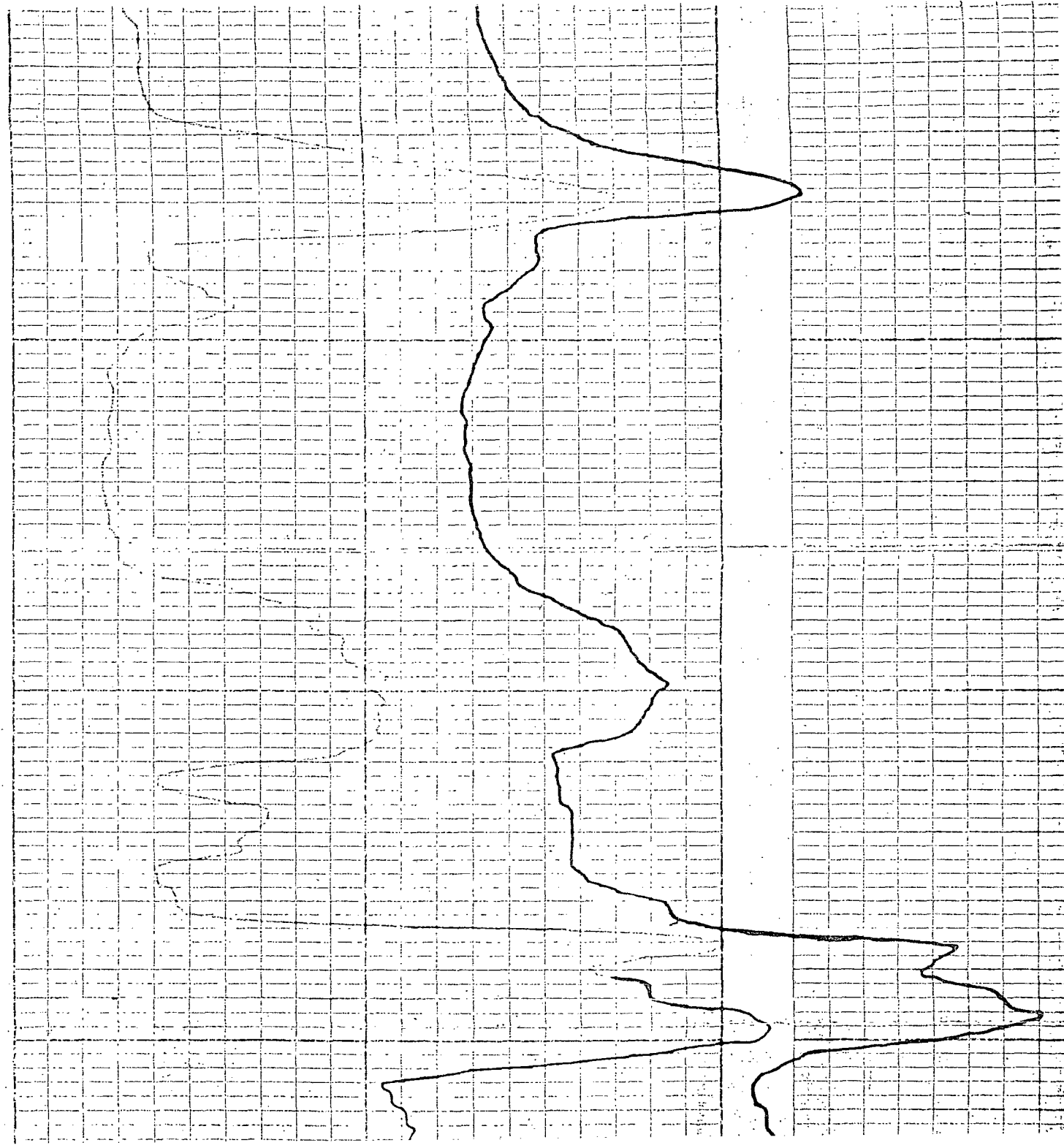
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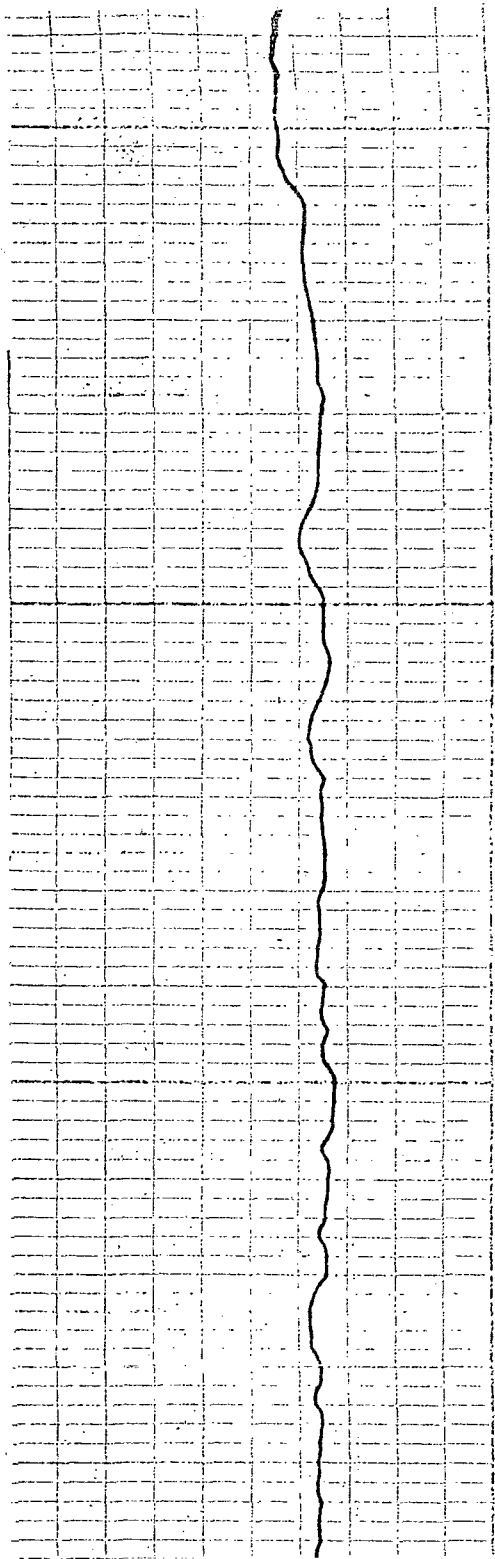
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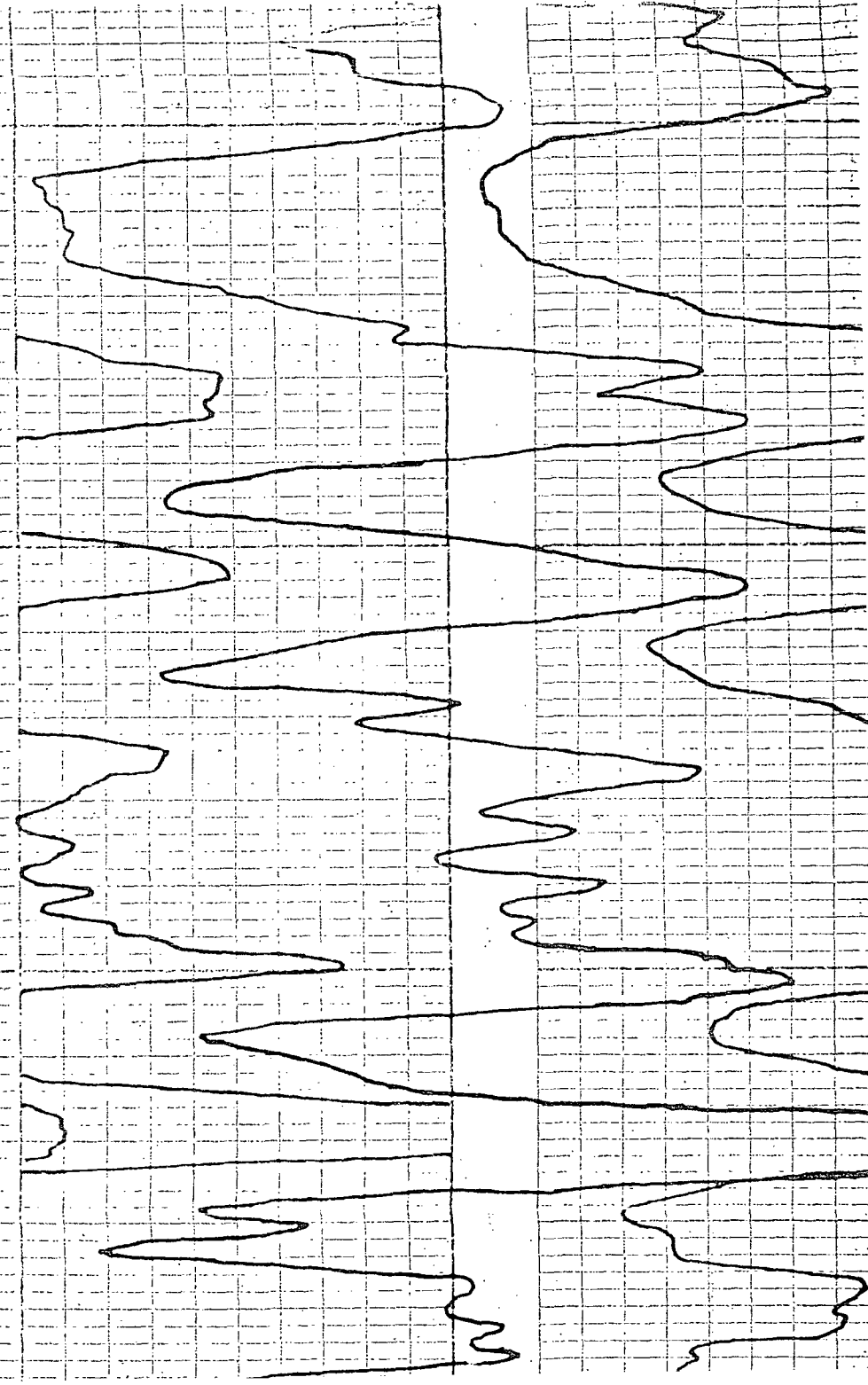
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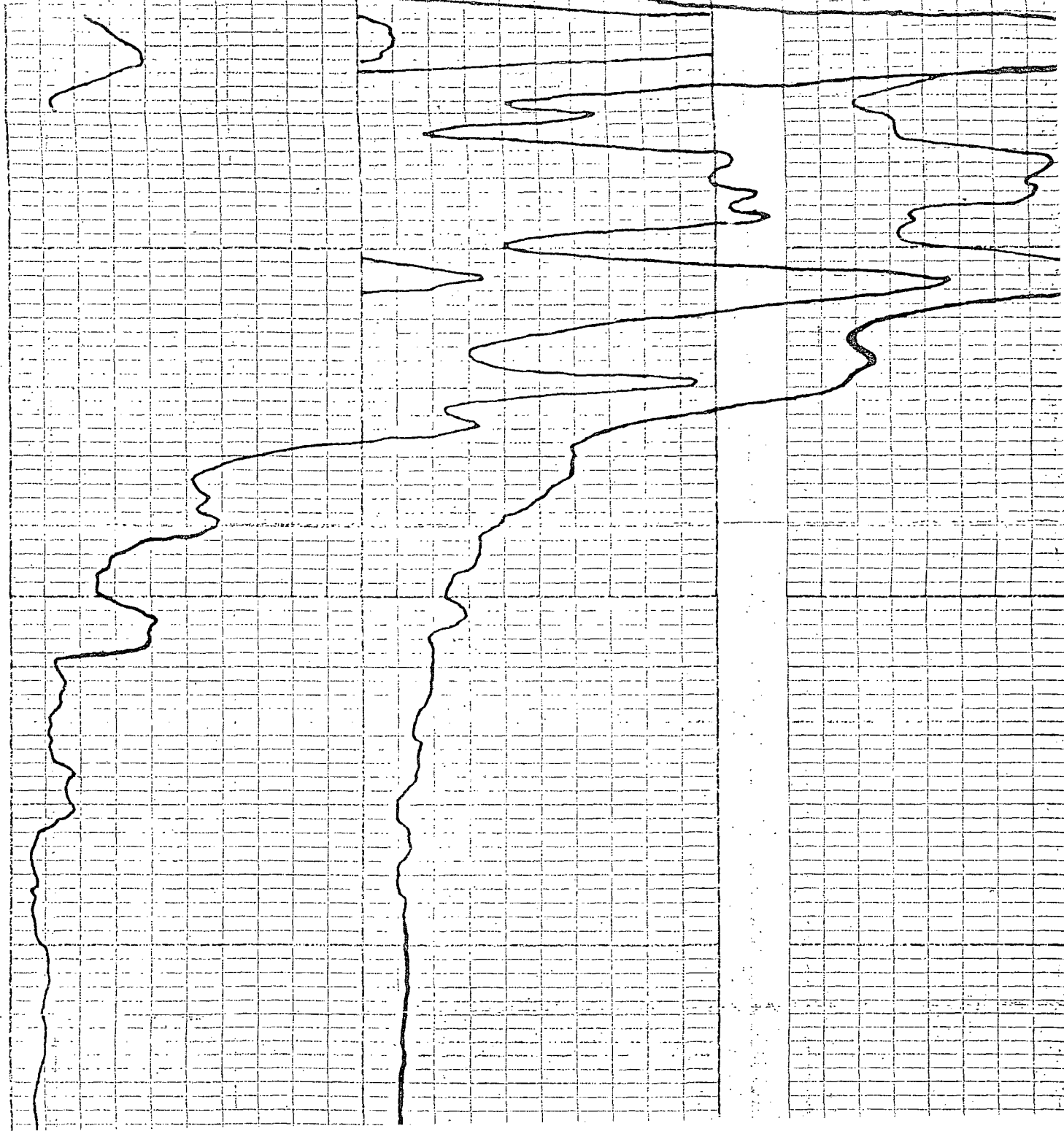
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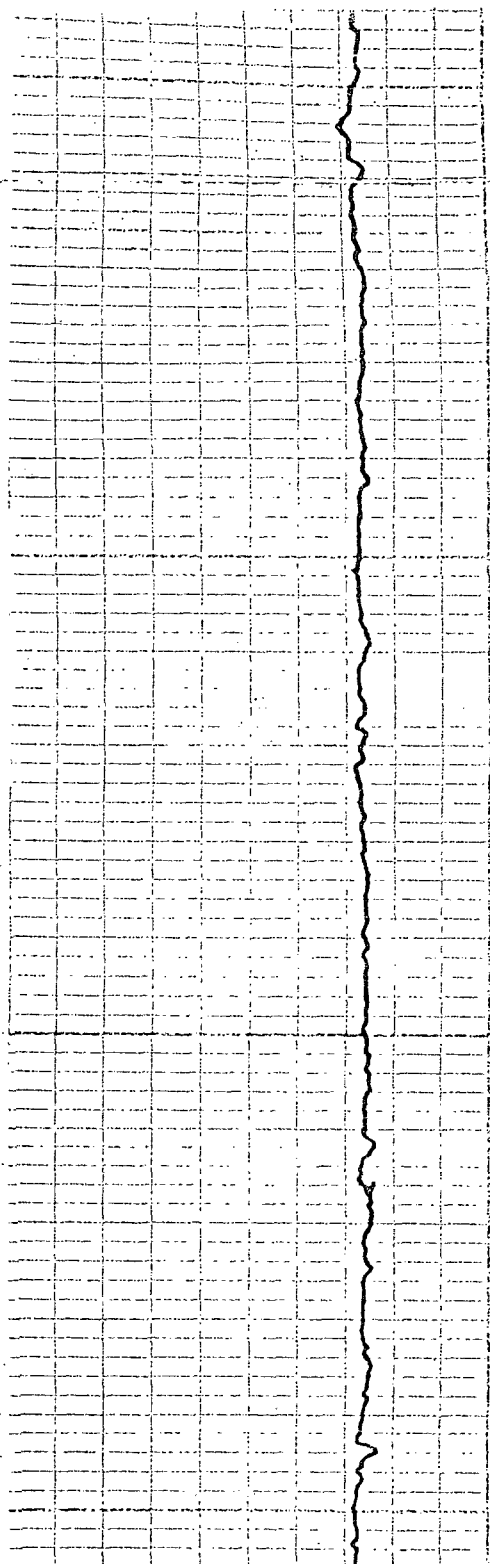




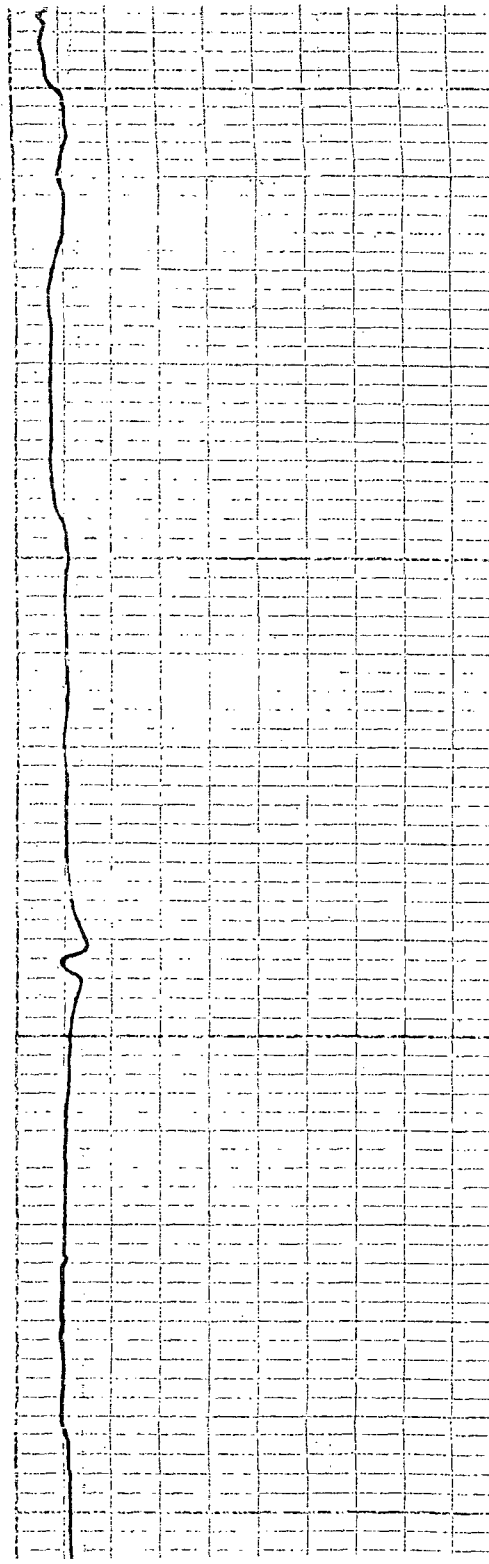
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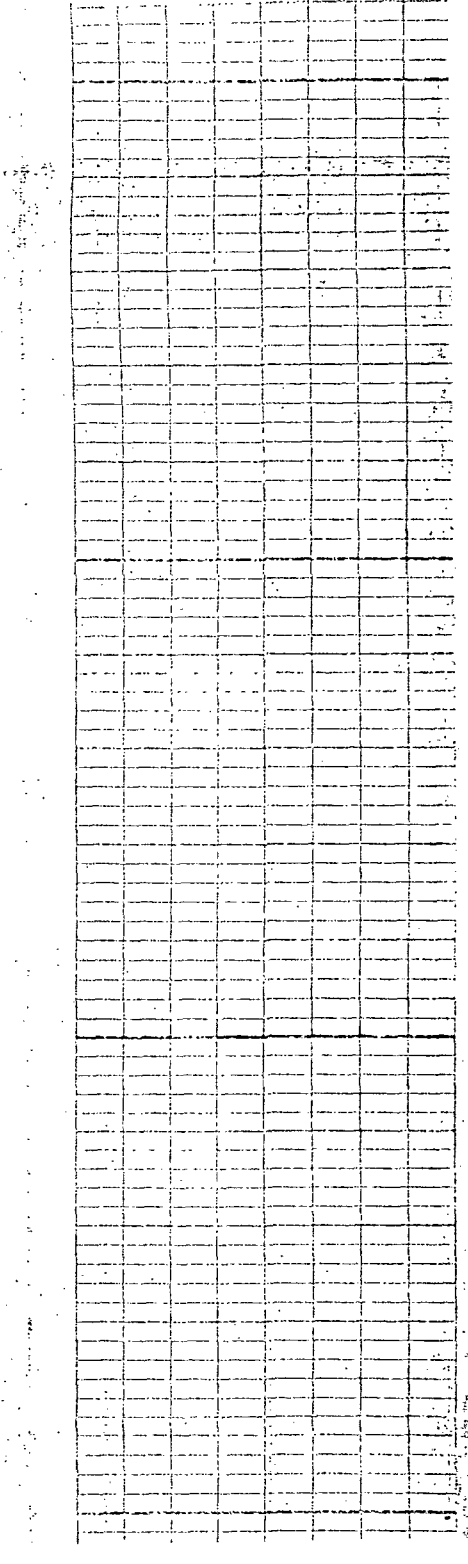
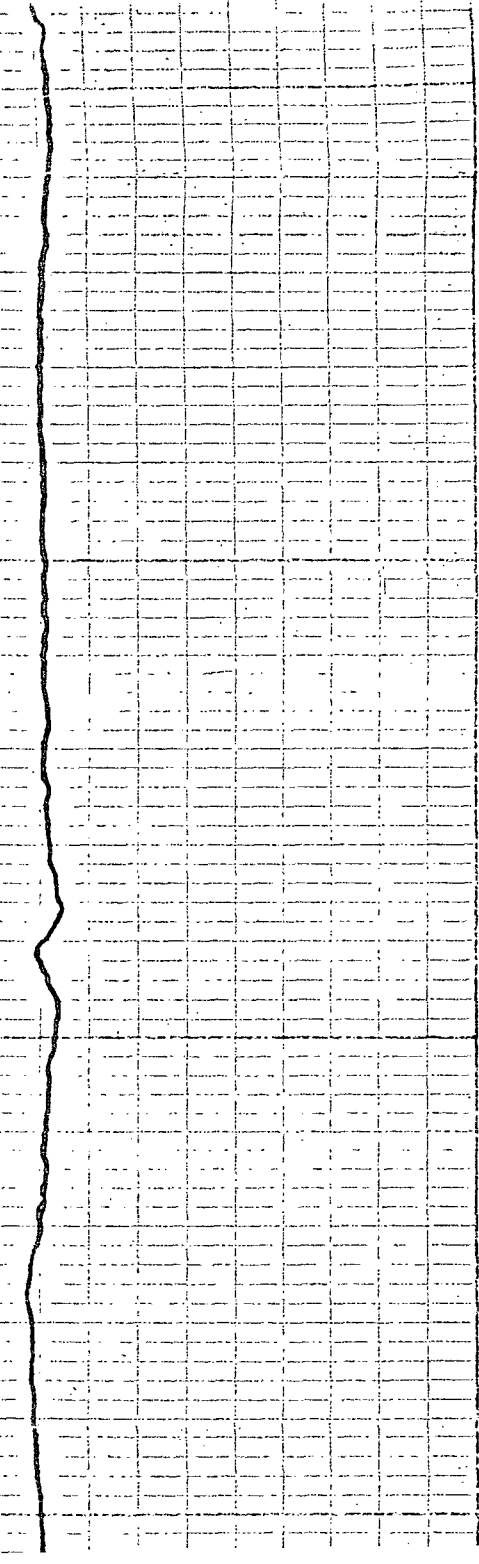


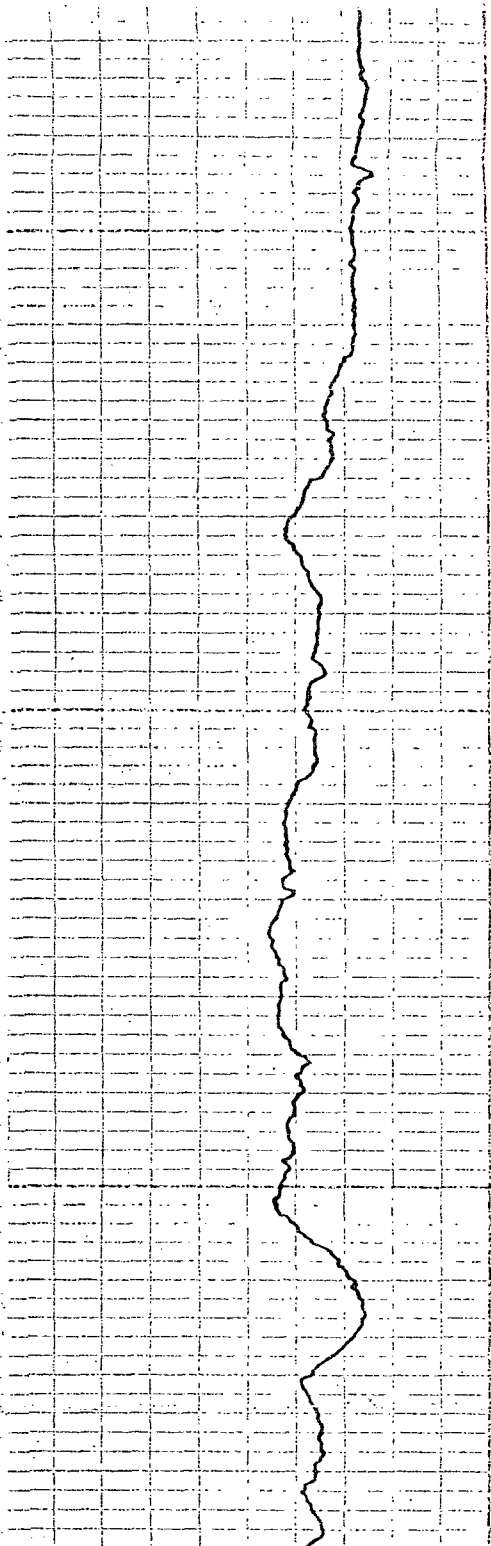


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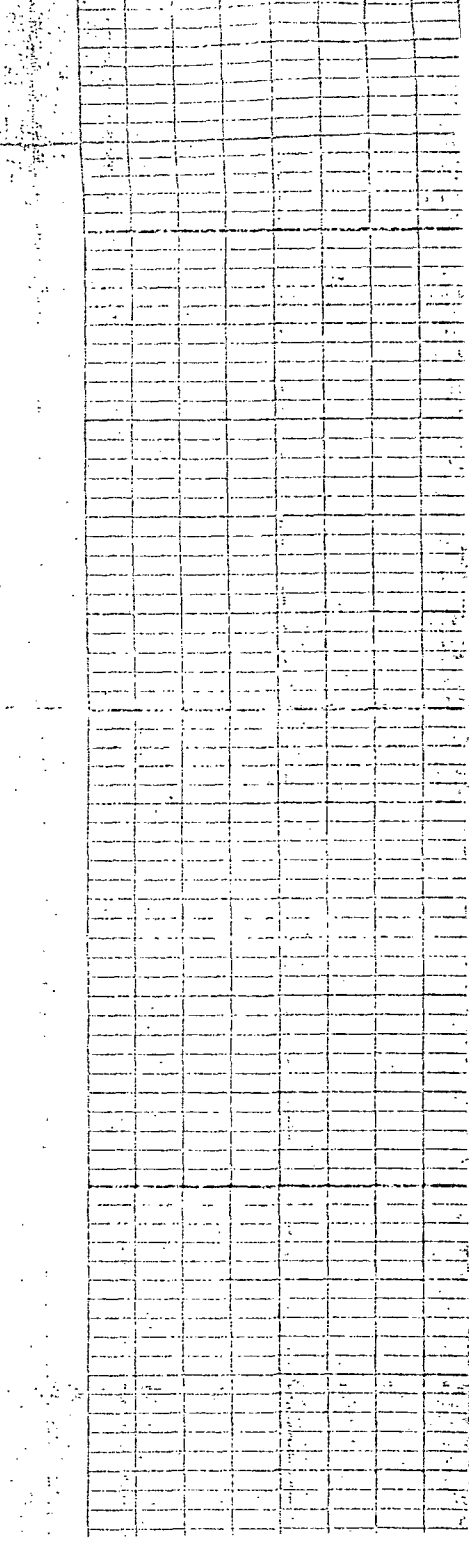
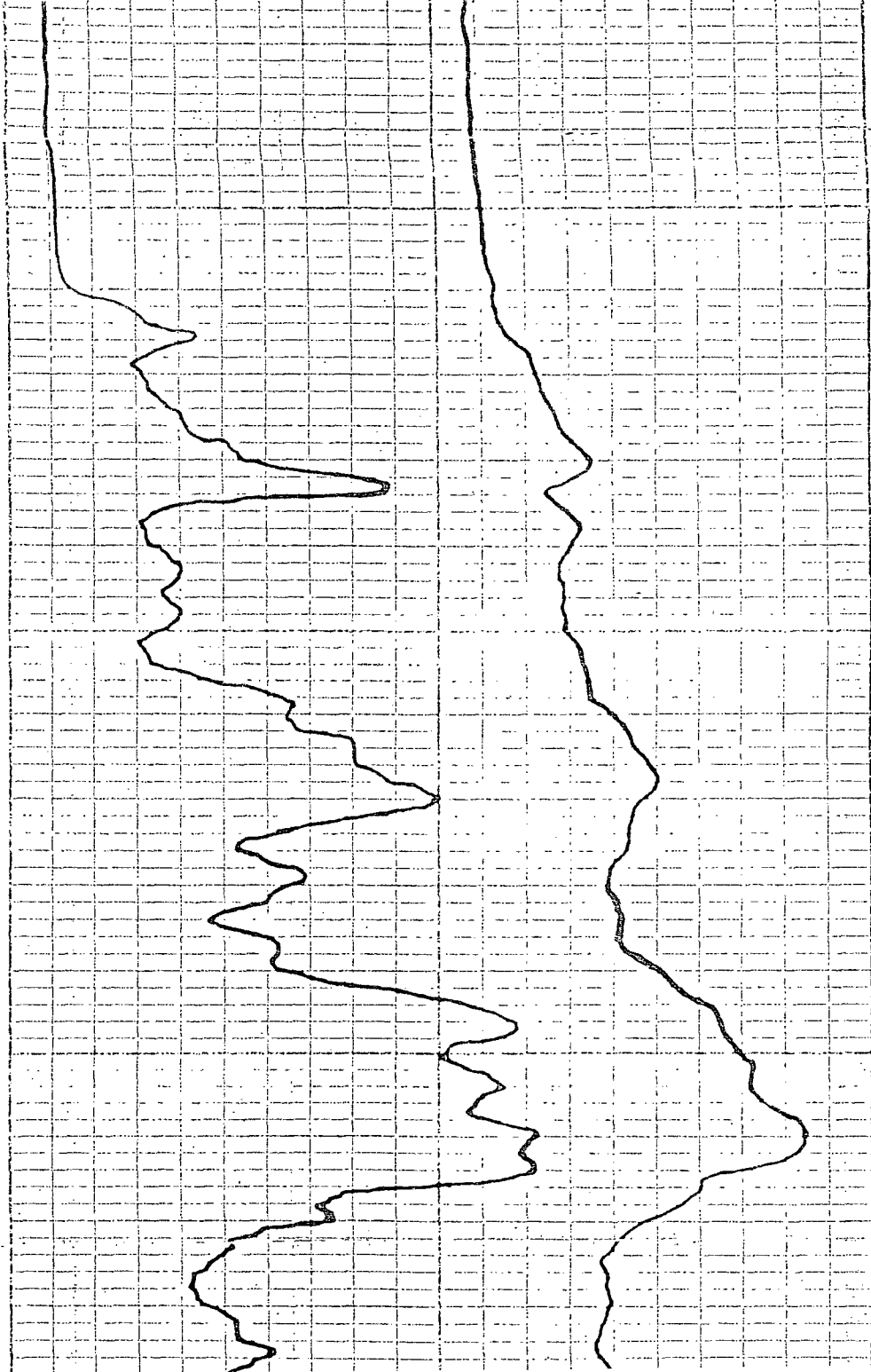


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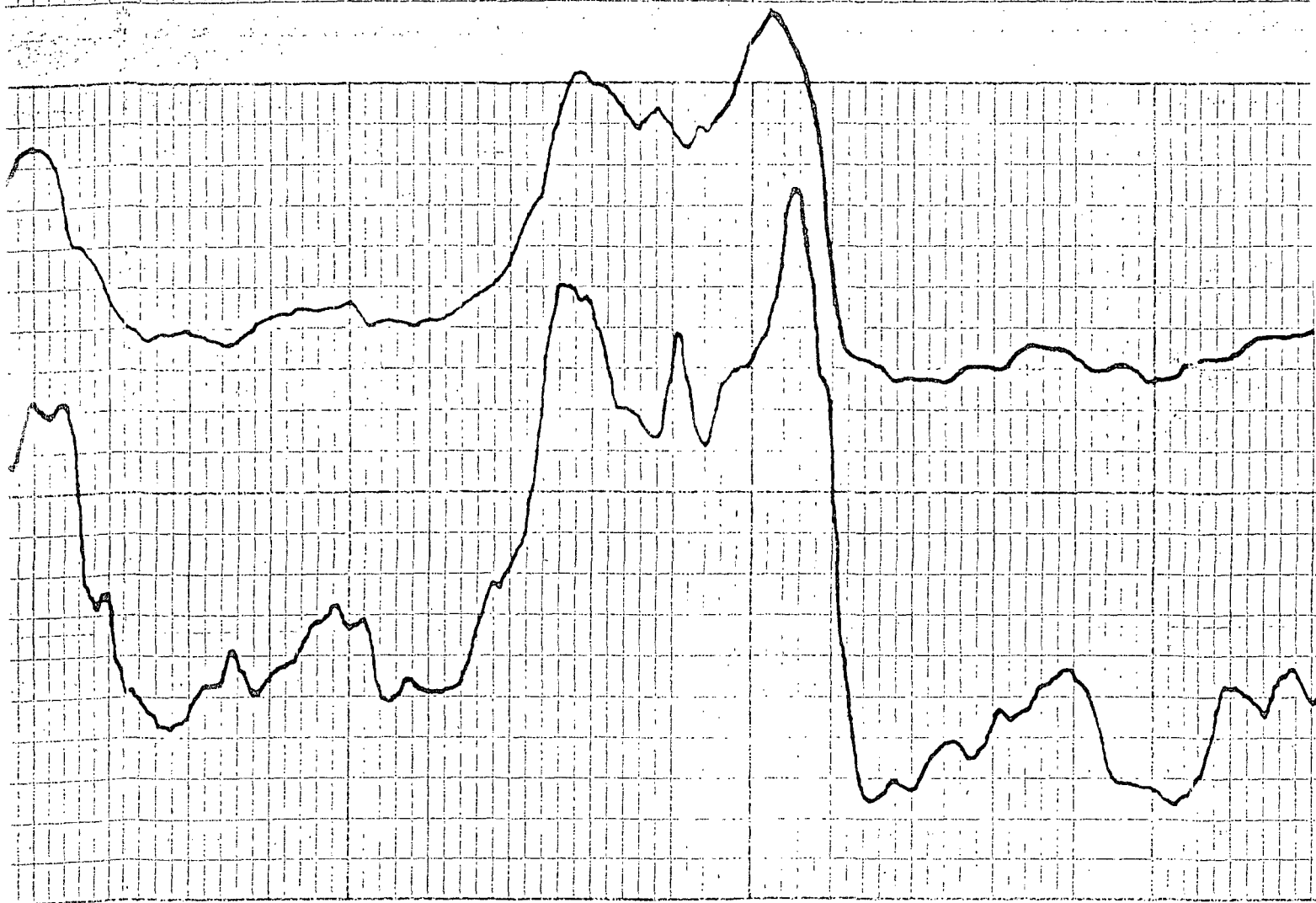




3700

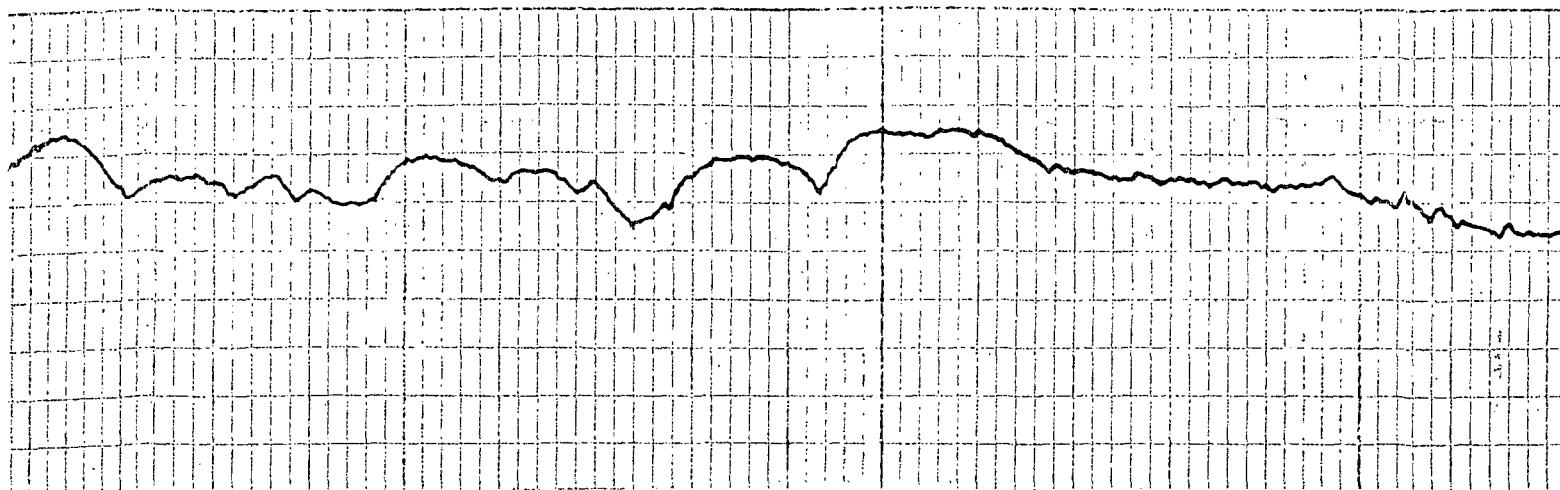




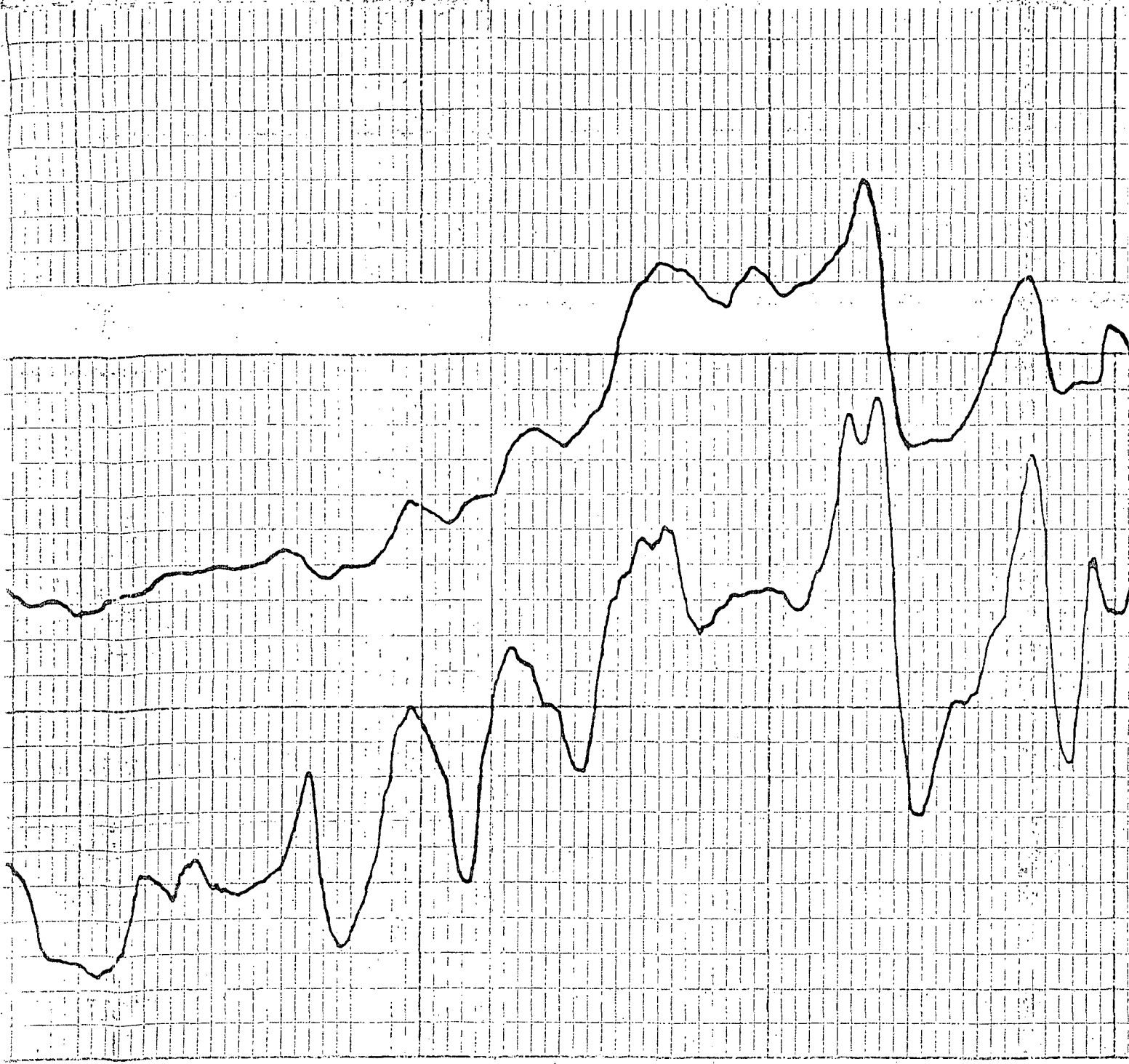


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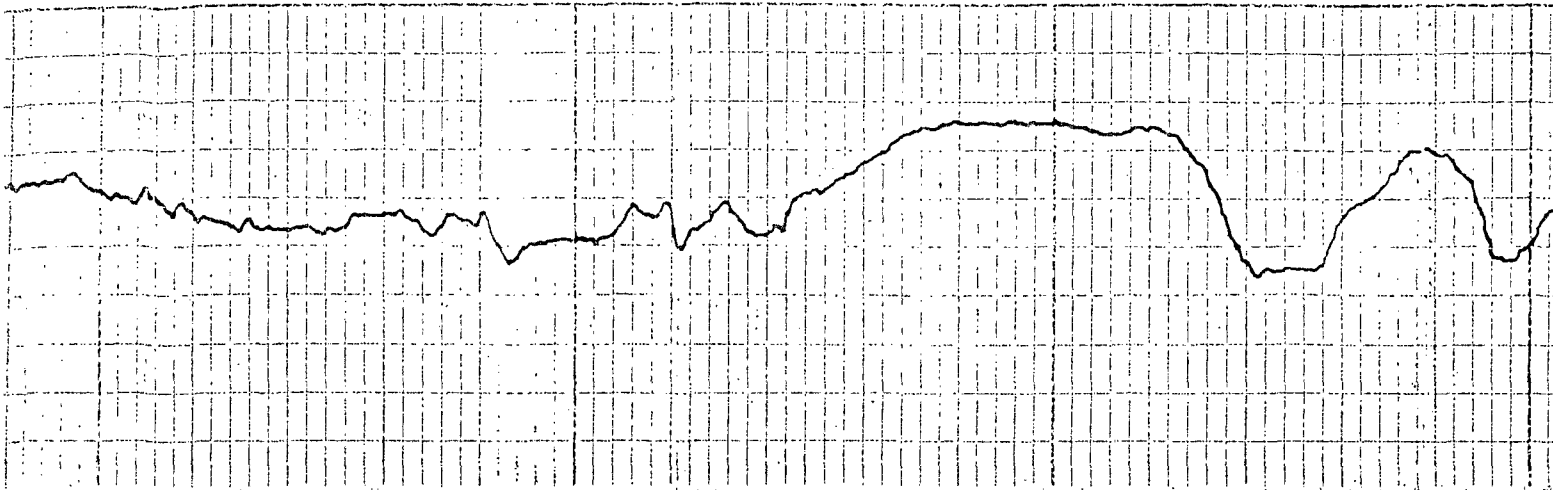






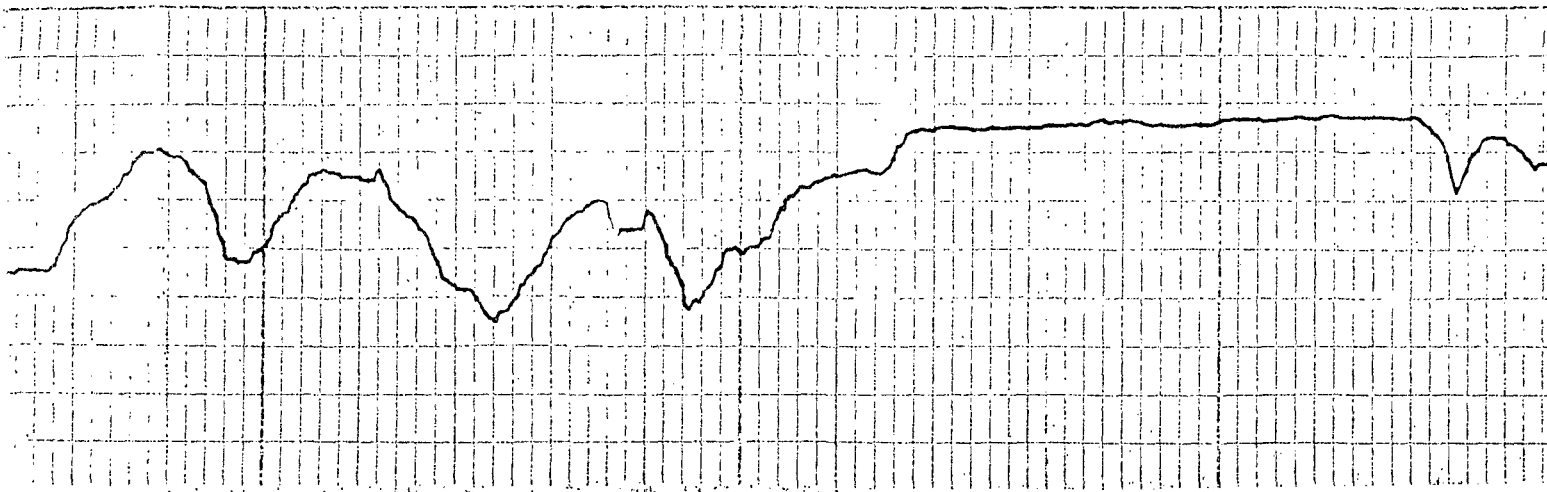
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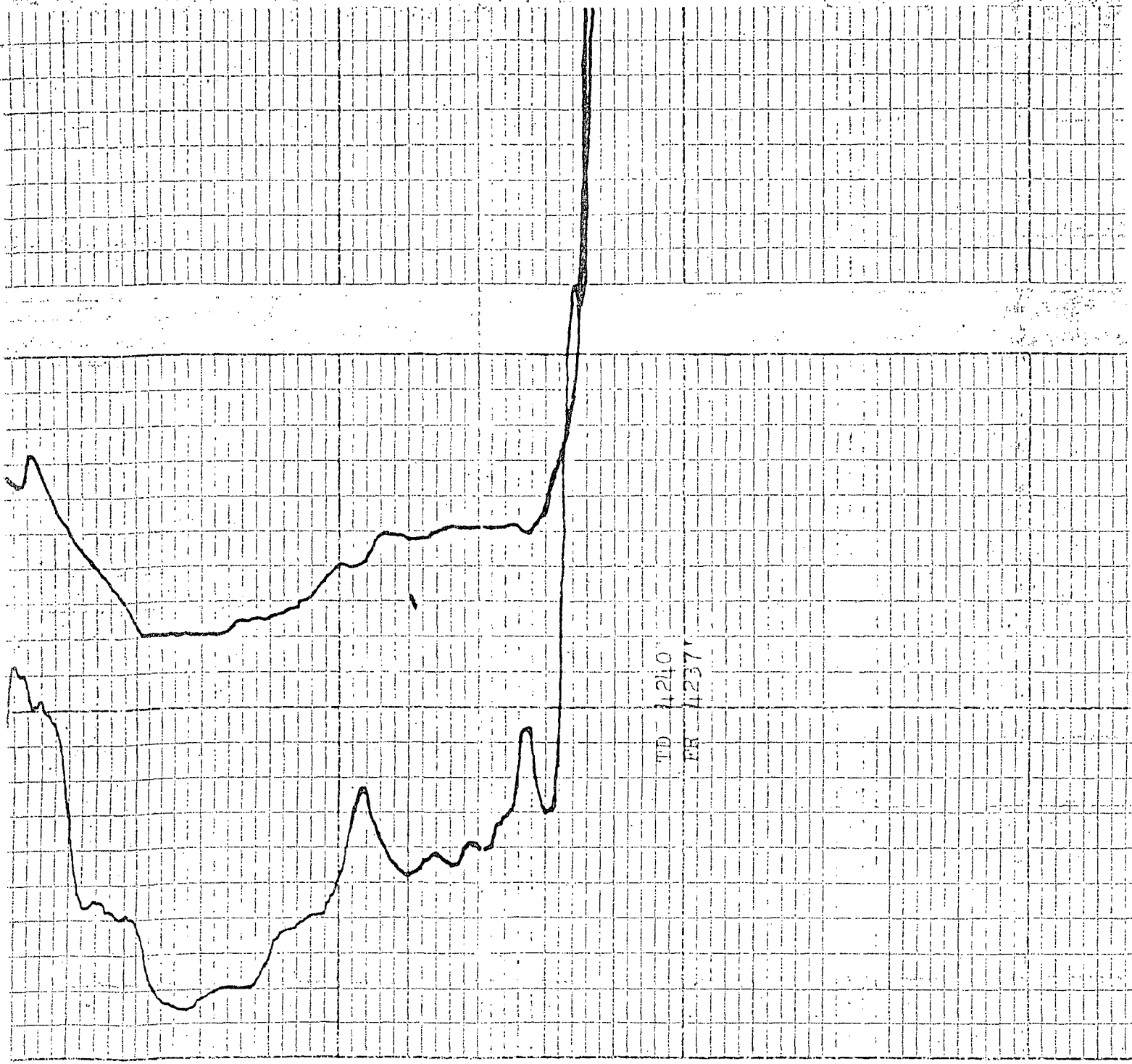
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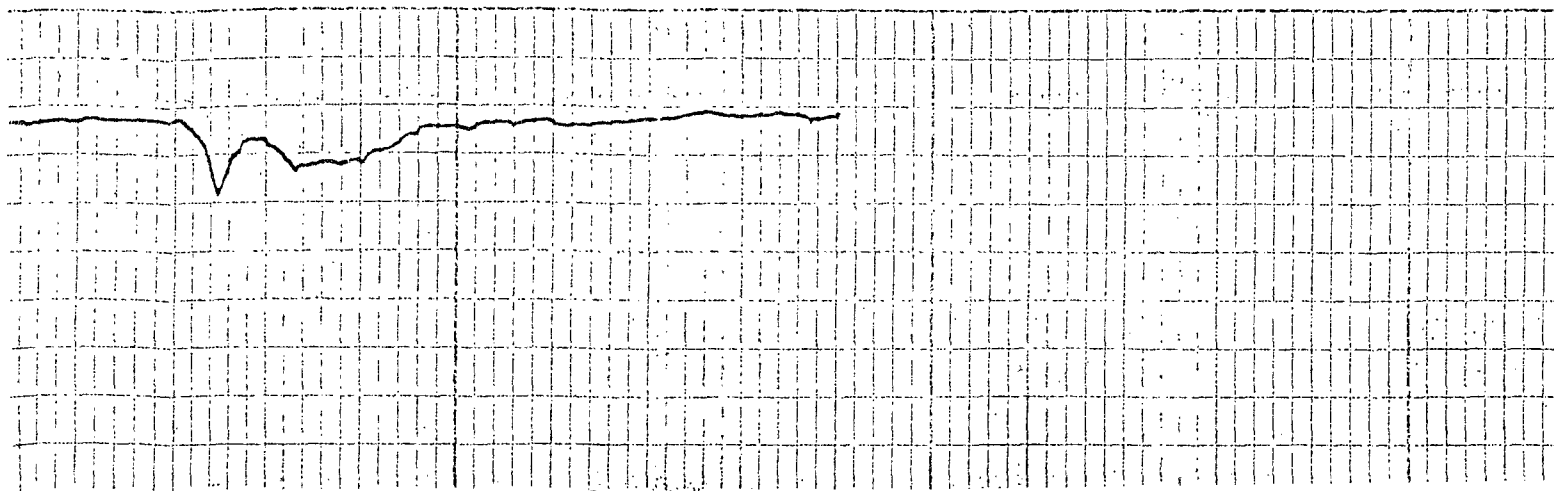
4100





TD 4240  
ER 4237

4200



238

OLIPHANT LABORATORIES INC  
NATIONAL BANK OF TULSA BUILDING  
TULSA, OKLAHOMA

# Temperature Log

FILING NO. \_\_\_\_\_

COMPANY O'NEILL - OLIPHANT

WELL REYNOLDS #1

FIELD STILLWATER

COUNTY CHURCHILL STATE NEVADA

LOCATION: 1150' NSL & 1050' EWL SW/4

OTHER SERVICES: \_\_\_\_\_

SEC. 6 TWP. 19N RGE. 31E

PERMANENT DATUM GL ELEV. 3895'

LOG MEASURED FROM KB 11.7' ABOVE GL KB. 3906'

DRILLING MEASURED FROM KB DF. \_\_\_\_\_

GL. 3895'

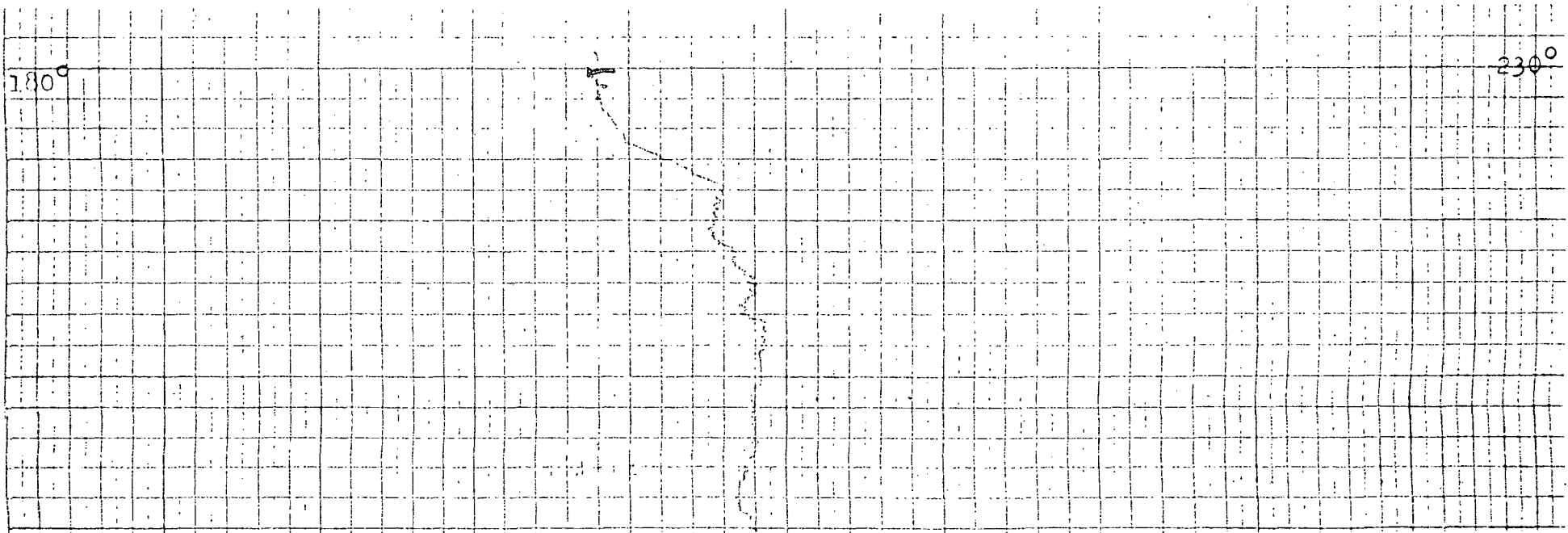
DATE	<u>2-24-'64</u>
RUN NO.	<u>ONE</u>
TYPE LOG	<u>TEMP.</u>
DEPTH - DRILLER	
DEPTH - LOGGER	<u>1237'</u>
BOTTOM LOGGED INTERVAL	<u>1237'</u>
TOP LOGGED INTERVAL	<u>1300'</u>
TYPE FLUID IN HOLE	
SALINITY PPM CL.	
DENSITY LB./GAL.	
LEVEL	
MAX. REC. TEMP. - DEG. F.	<u>255.25° F.</u>
OPR. RIG TIME	
RECORDED BY	<u>WILLETT</u>
WITNESSED BY	
LOCATION	

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
	26"	0	135'	20"		0	126'
	19"	135'	350'	16"		0	340'
	15"	350'	1500'	10 3/4"		0	1459'
		1500'	3350'				

WELL DATA		EQUIPMENT DATA	
TYPE WELL	GEOTHERMAL	TEMP.	ONE
RUN NO.	ONE	RUN NO.	ONE
PROD. OR INJ. RATE		TOOL MODEL NO.	LDAC 6010
WELL HEAD PRESSURE		DIAM.	1 1/2"

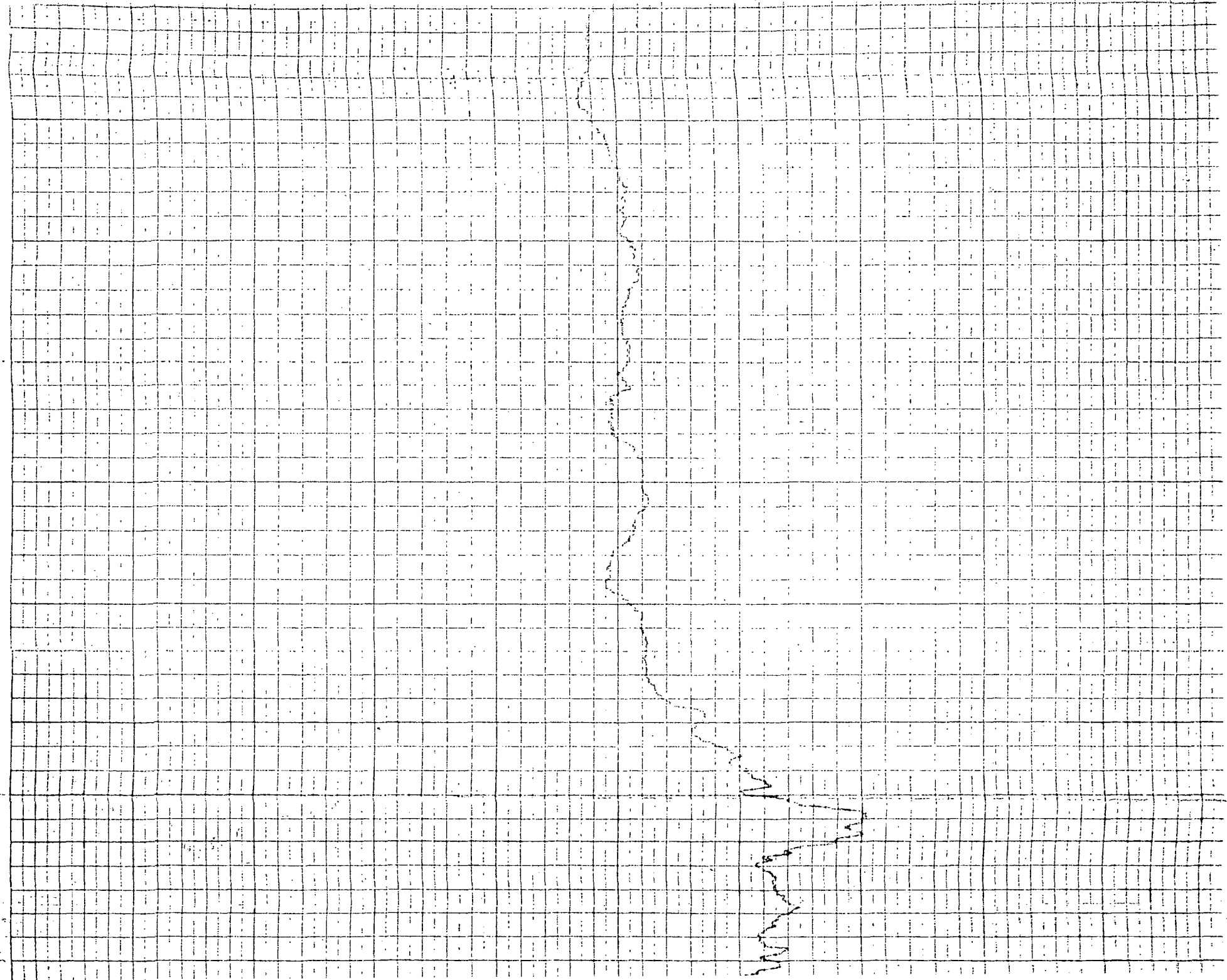
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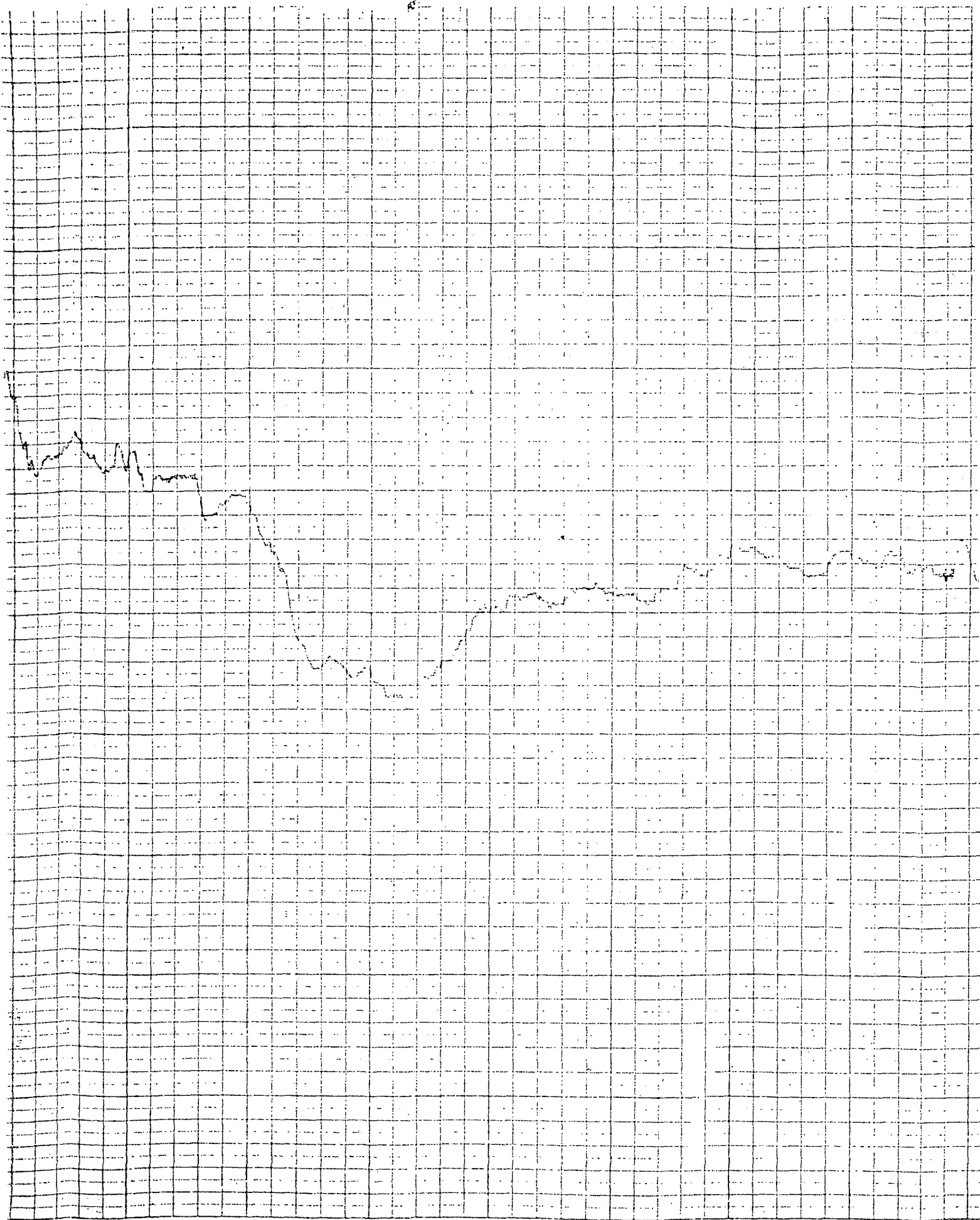
EQUIPMENT DATA				WELL DATA			
TYPE LOG	TEMP.			TYPE WELL	GEOTH-ERMAL		
RUN NO.	ONE			RUN NO.	ONE		
TOOL MODEL NO.	LDAC 6010			PROD. OR INJ. RATE			
DIAM.	1 $\frac{1}{2}$ "			WELL HEAD PRESSURE	NONE		
SPEED FT. / MIN.	20			TYPE & AMT. CEMENT			
T. C. - SEC.	1			LENGTH OF TIME:			
SCALE	5 $^{\circ}$ =1"			PROD. OR INJECTING			
				SHUT IN			
				SINCE CEMENTING			
GENERAL				REFERENCE LITERATURE:			
HOIST TRUCK NO.							
INST. TRUCK NO.	23						
TOOL SERIAL NO.	159						
REMARKS:							
STARTED LOGGING 9:50 P.M. On BOTTOM AT 11:40 P.M.							
7 $\frac{1}{2}$ HRS. SINCE LAST DRILLING.							
5 $\frac{1}{2}$ HRS. SINCE LAST CIRC.							
Hg THERM. 255 $^{\circ}$							



400

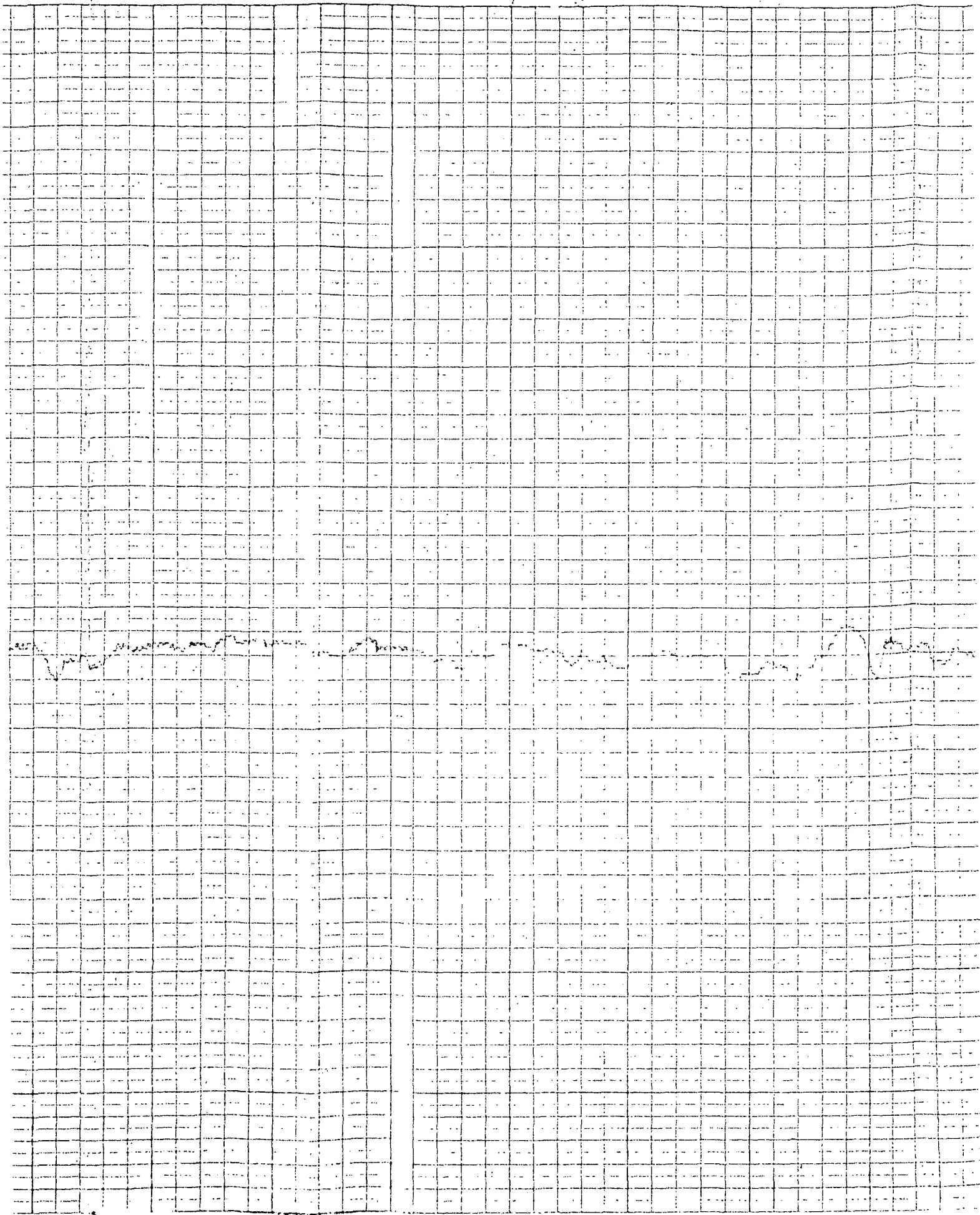
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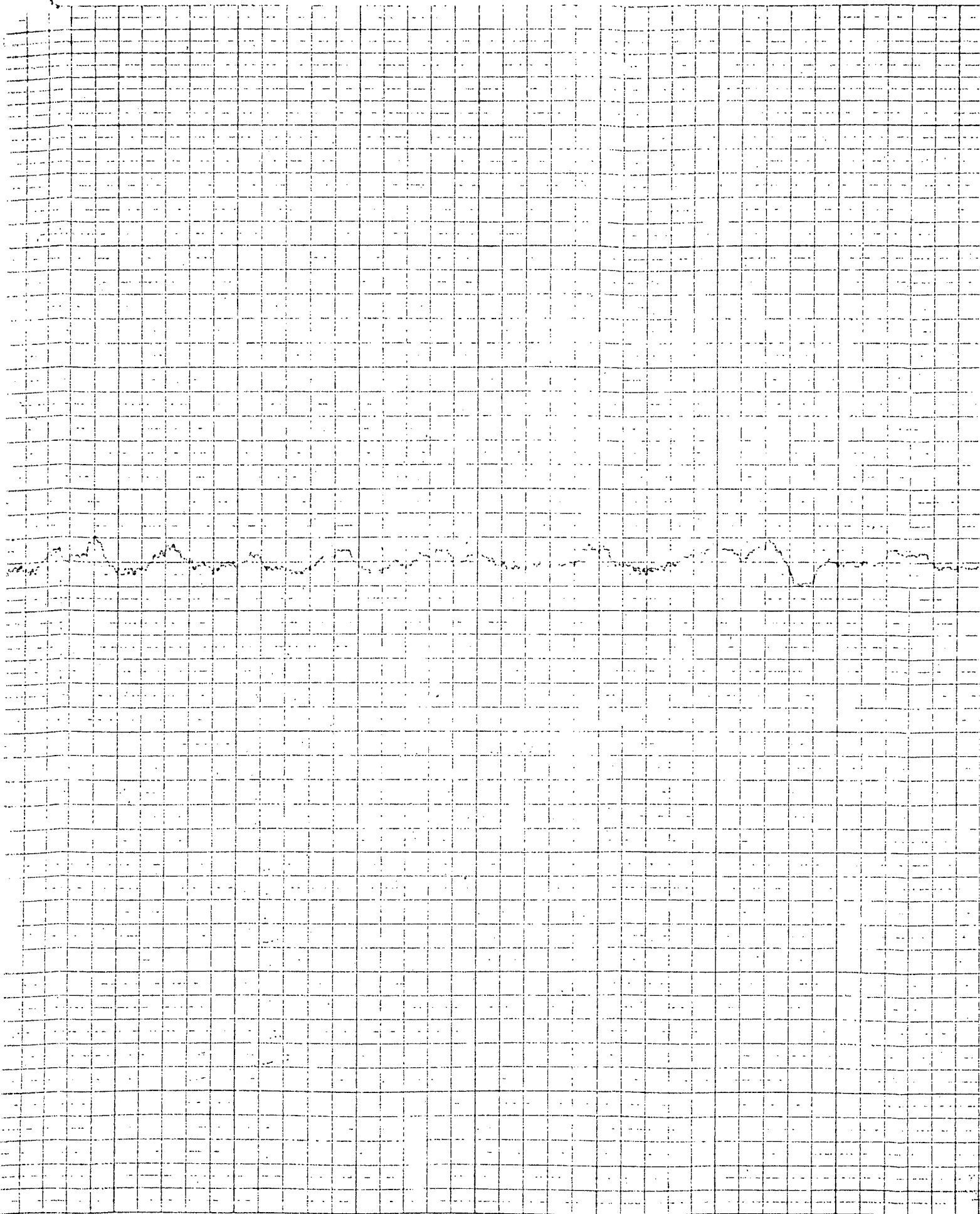


1500

1600

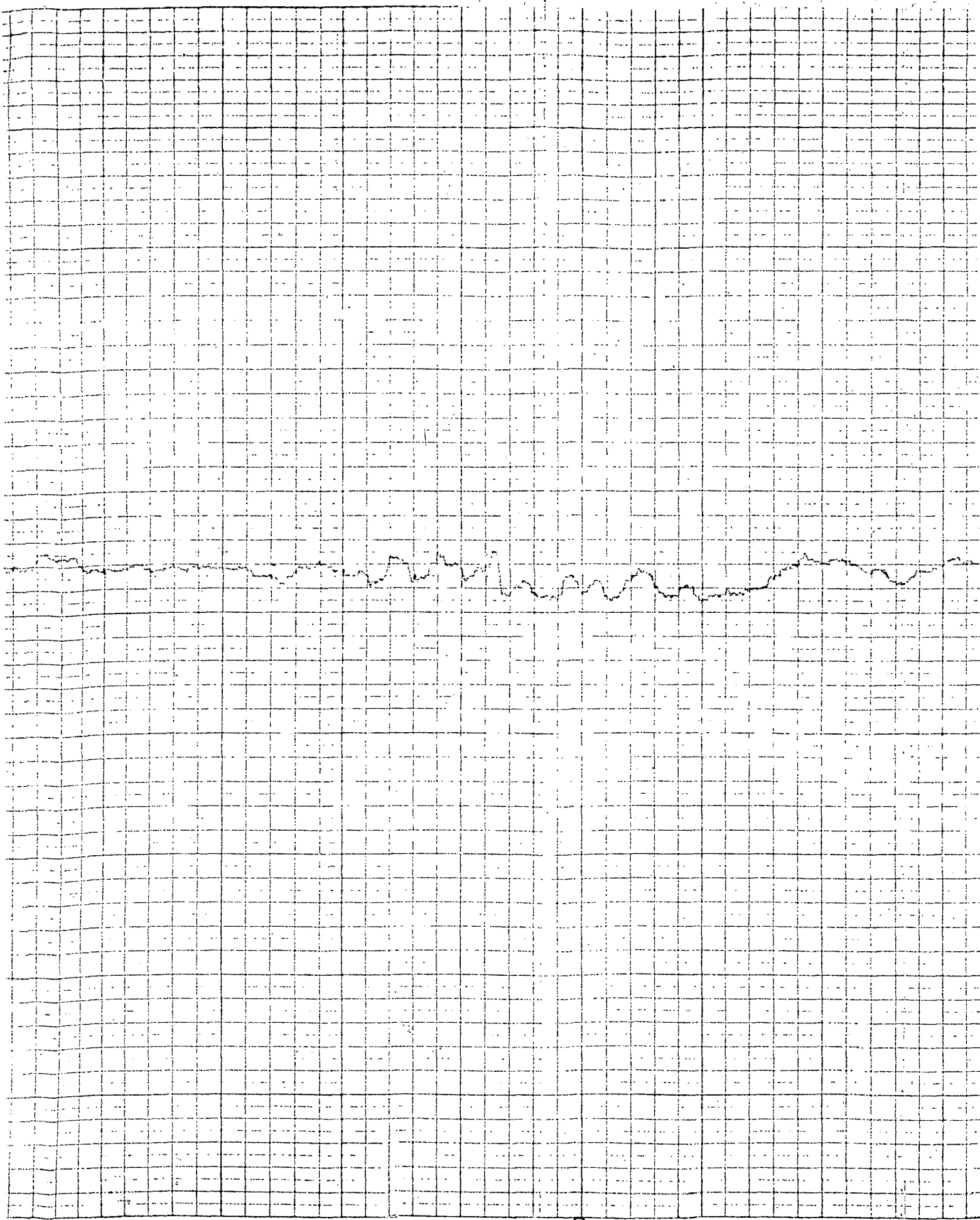






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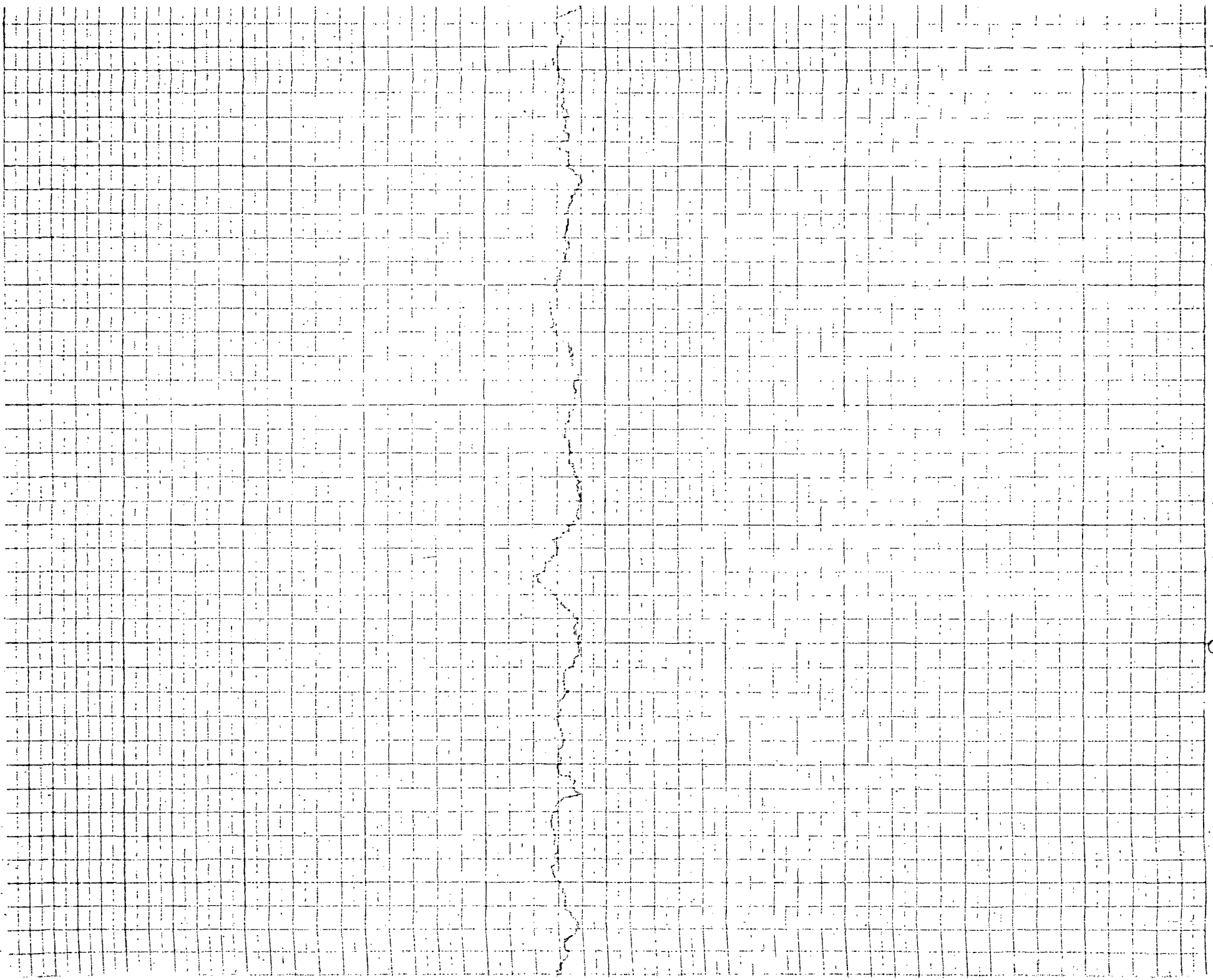
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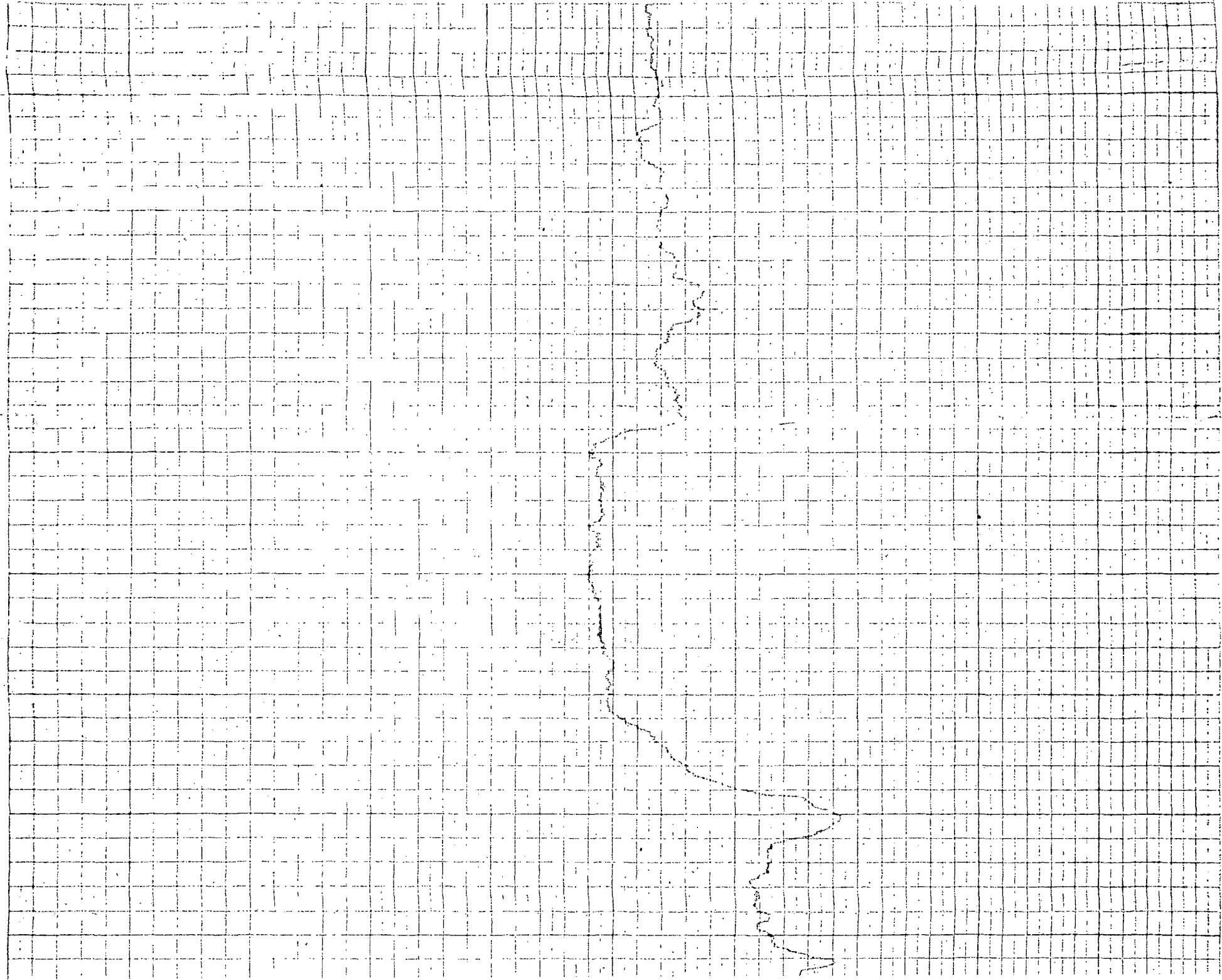
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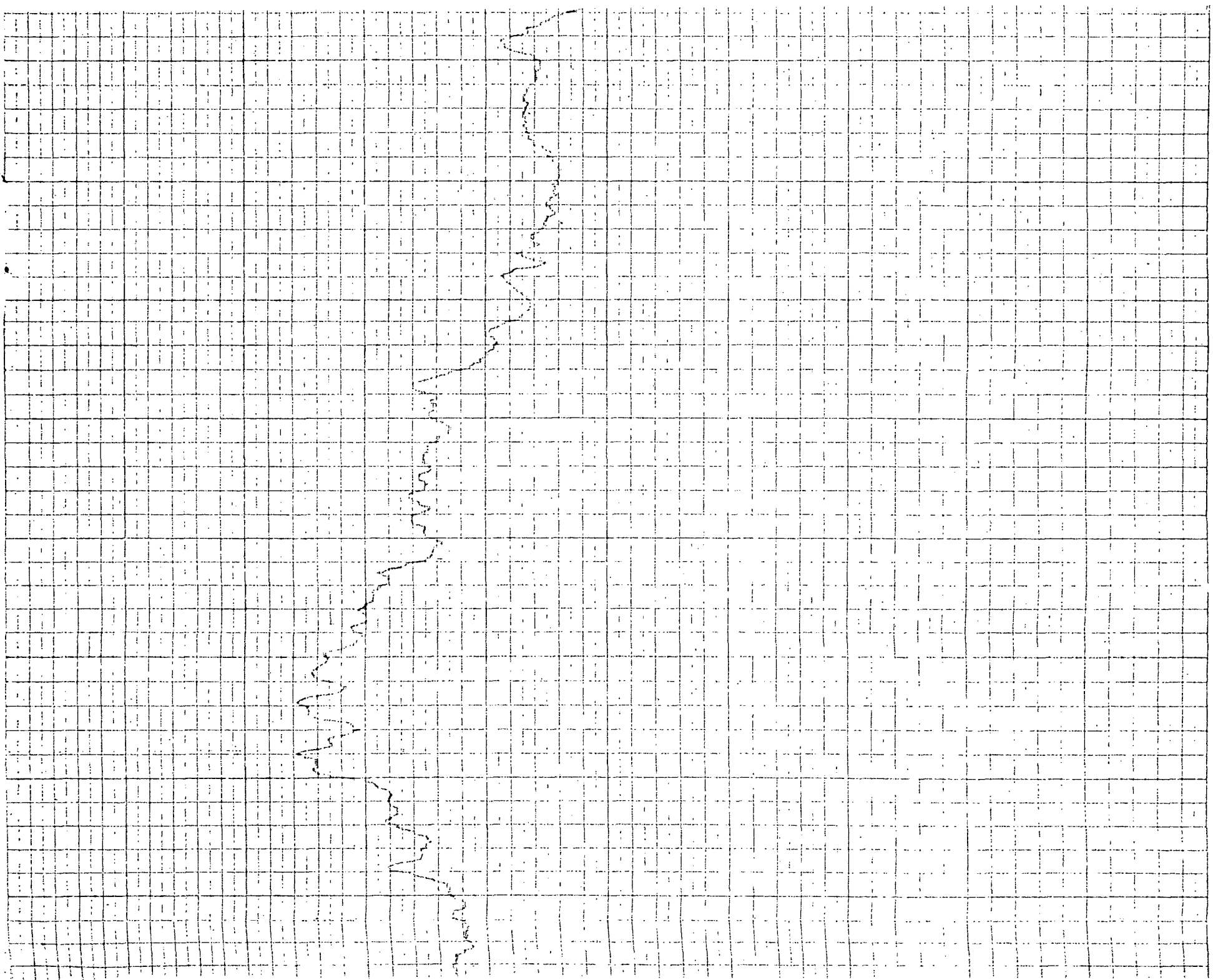
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2200

2300

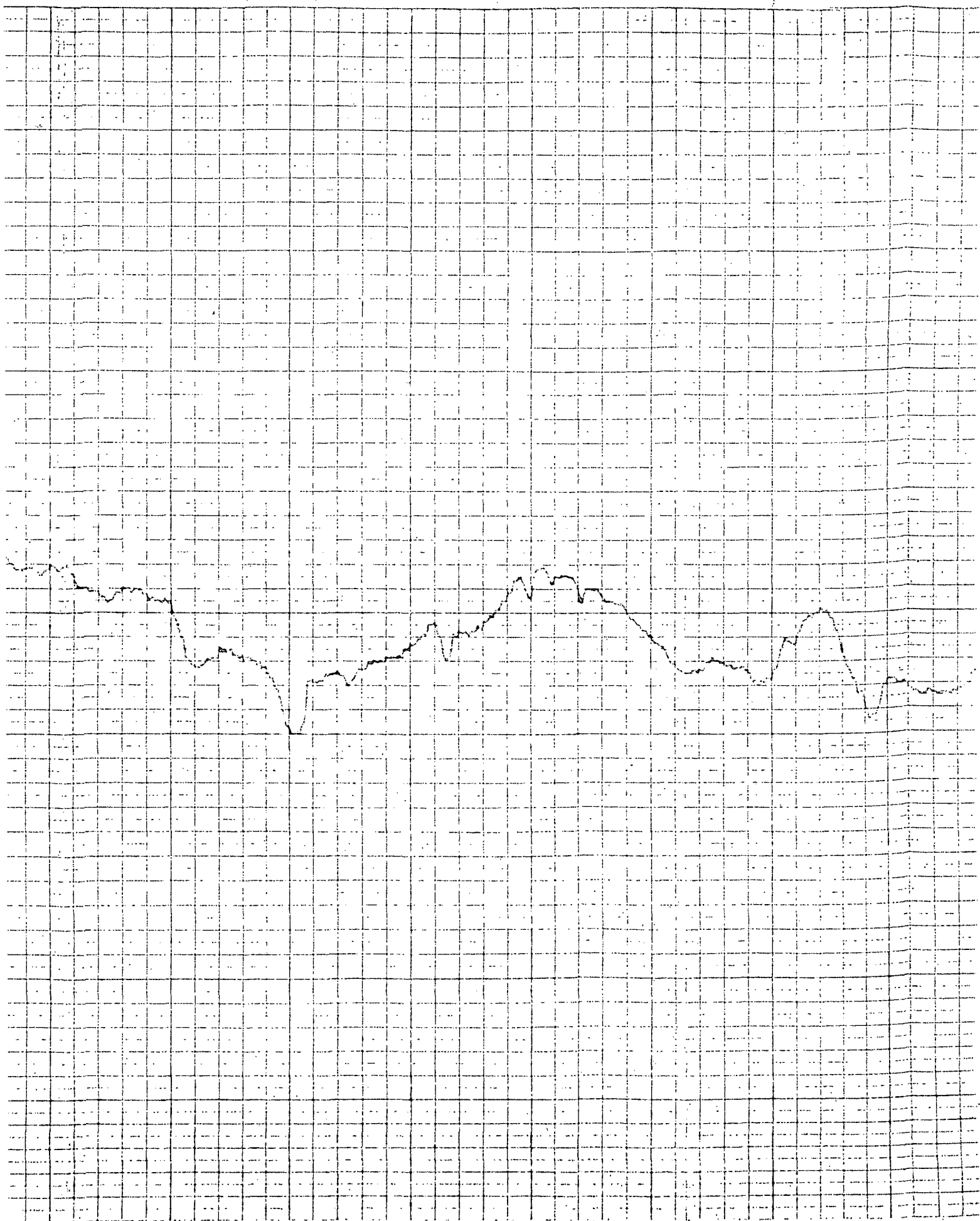


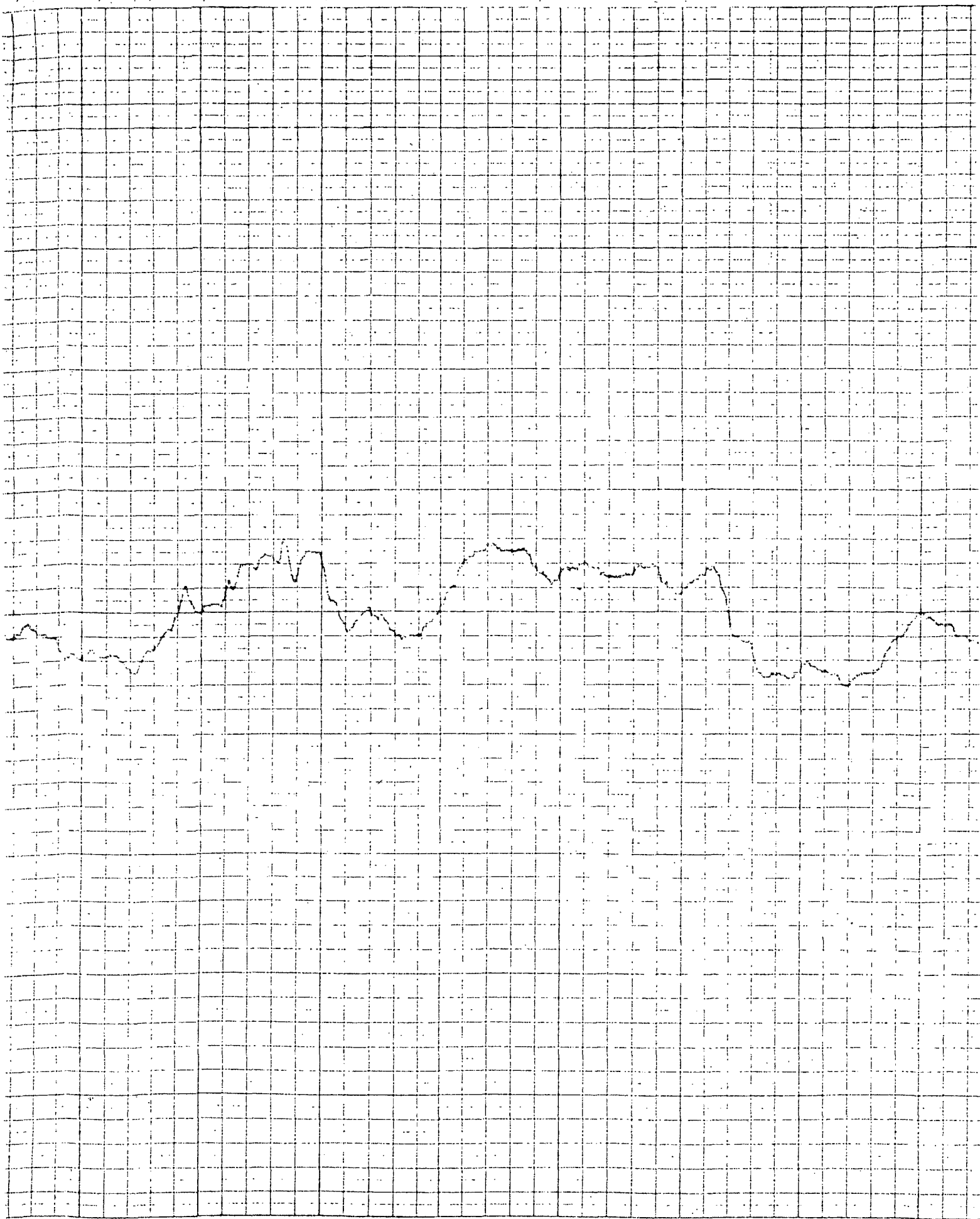


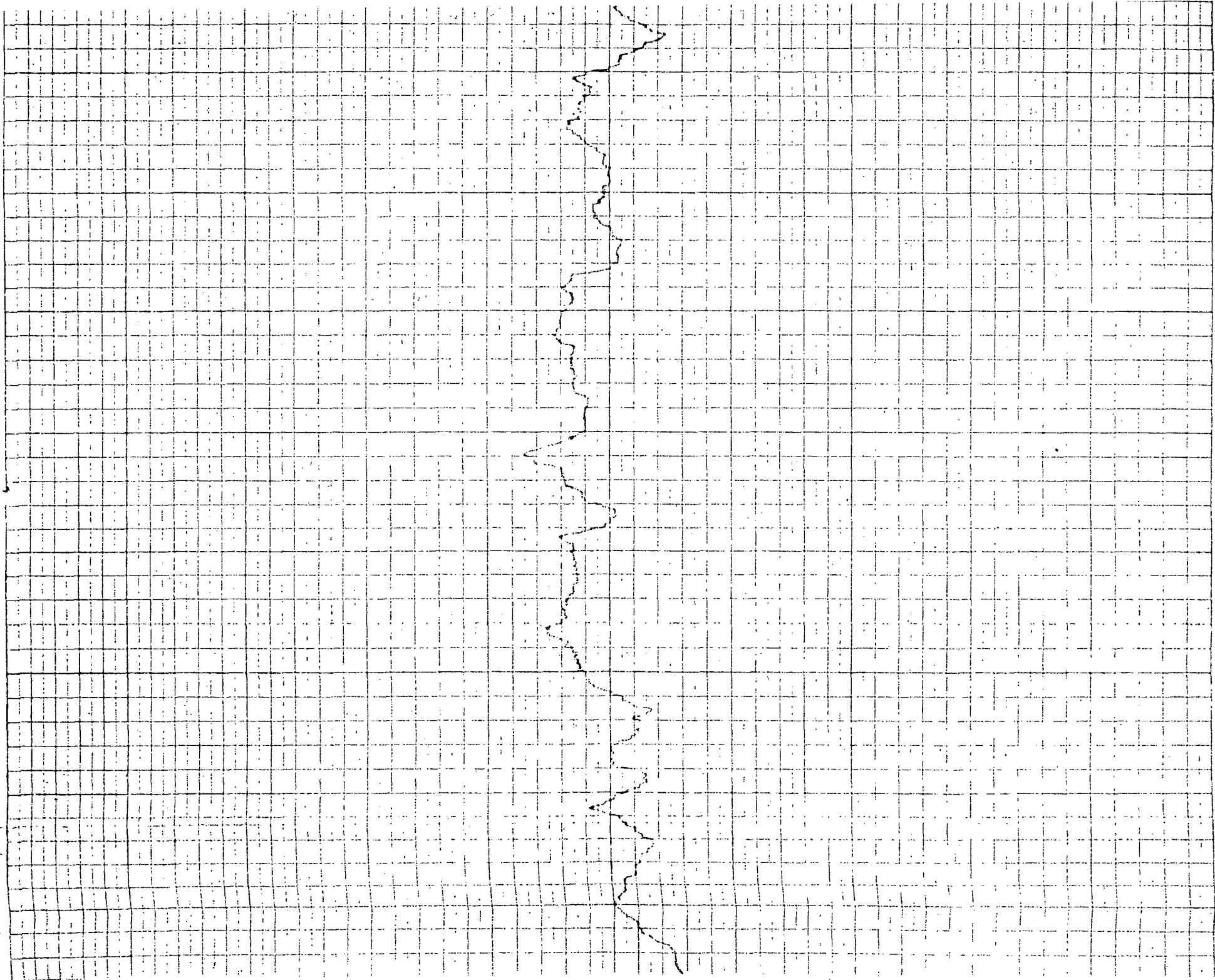
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2600

2500



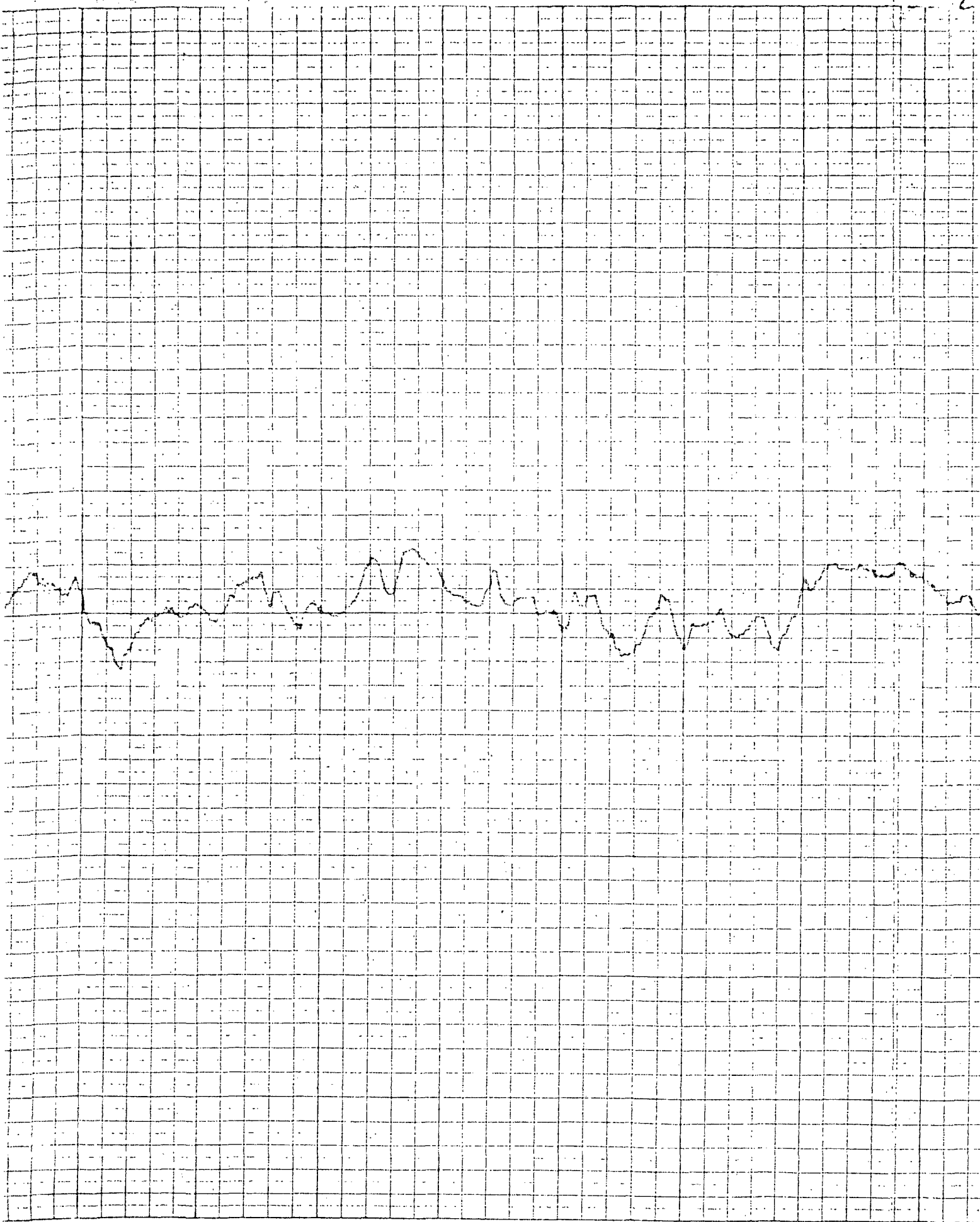




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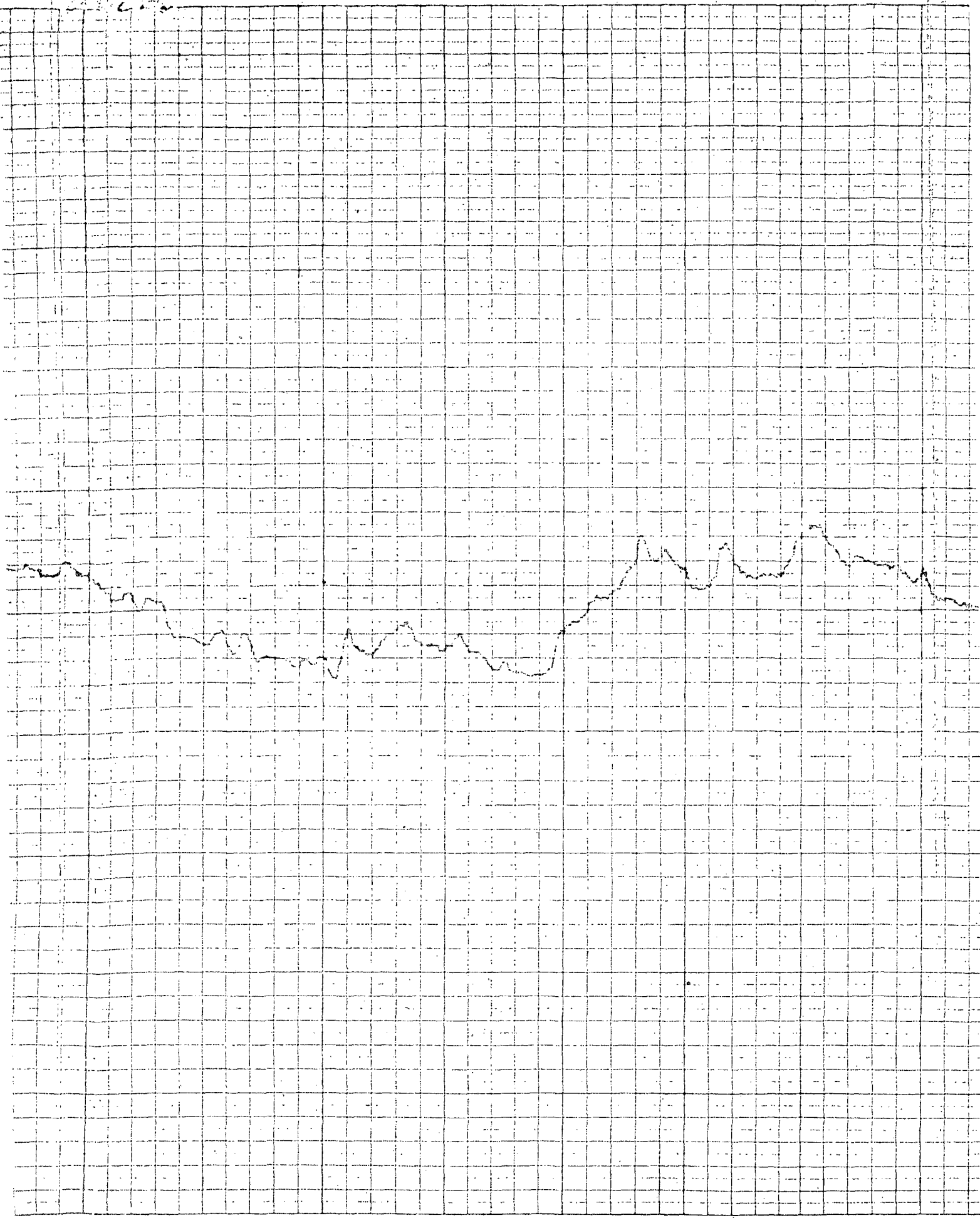
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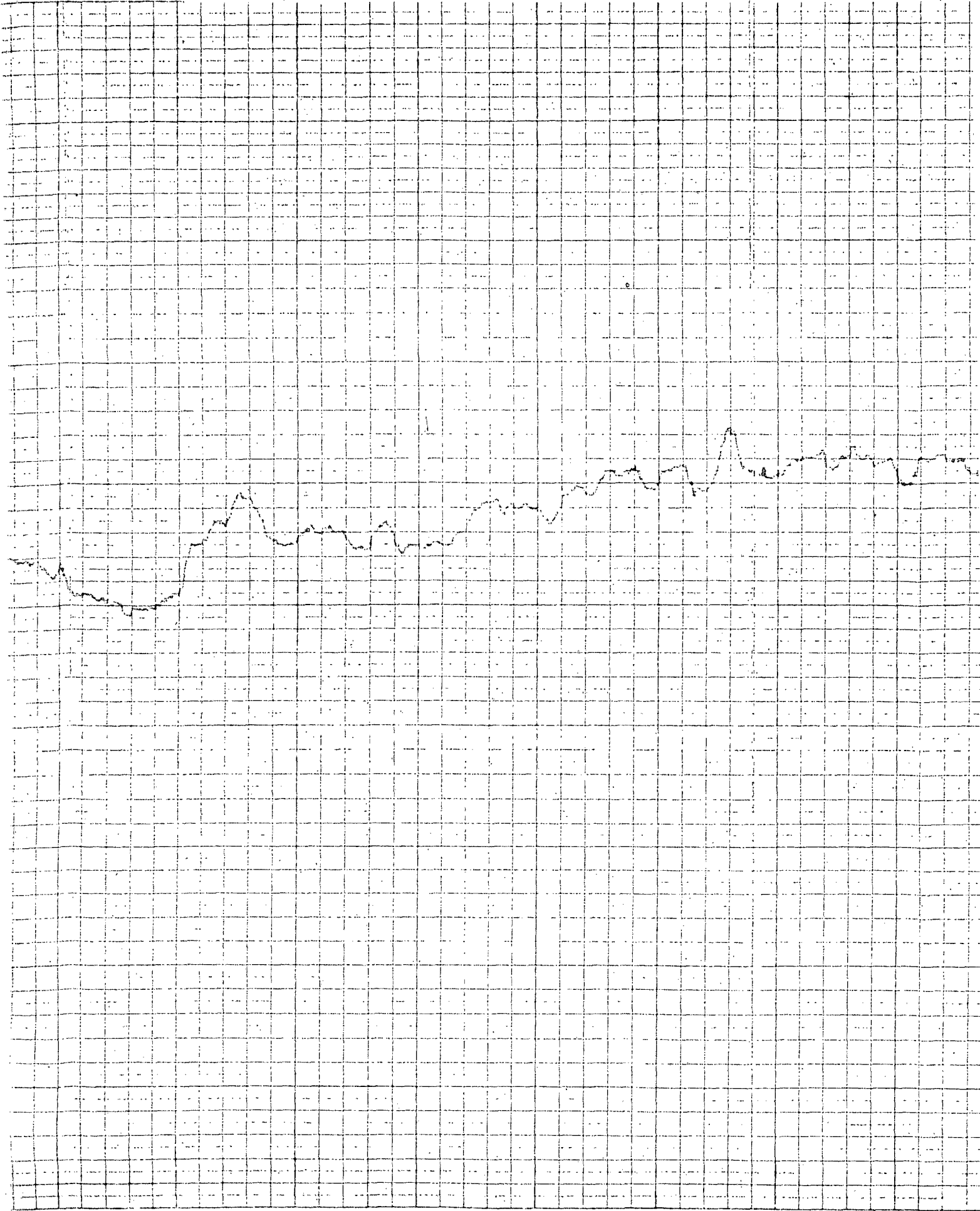




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3000

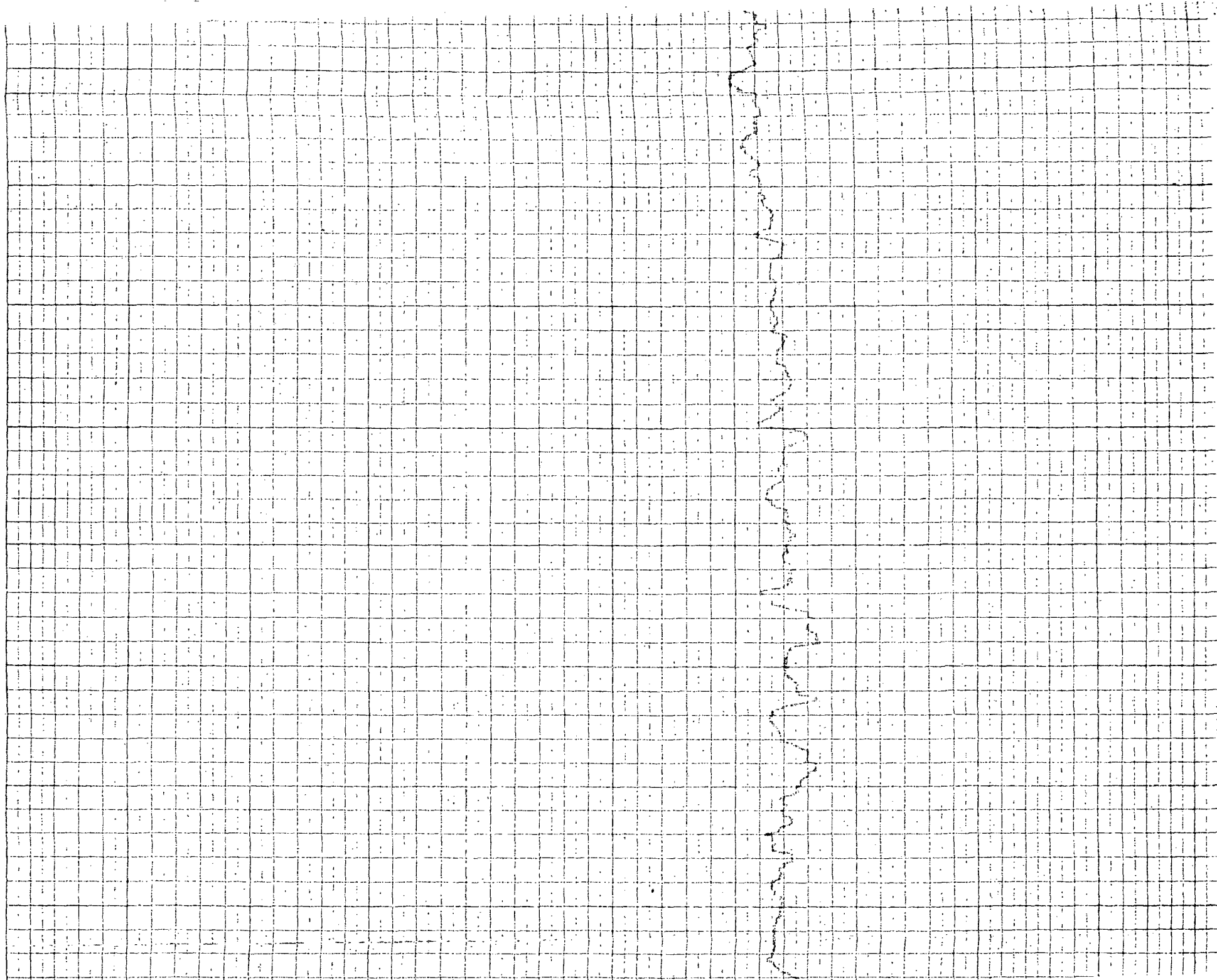




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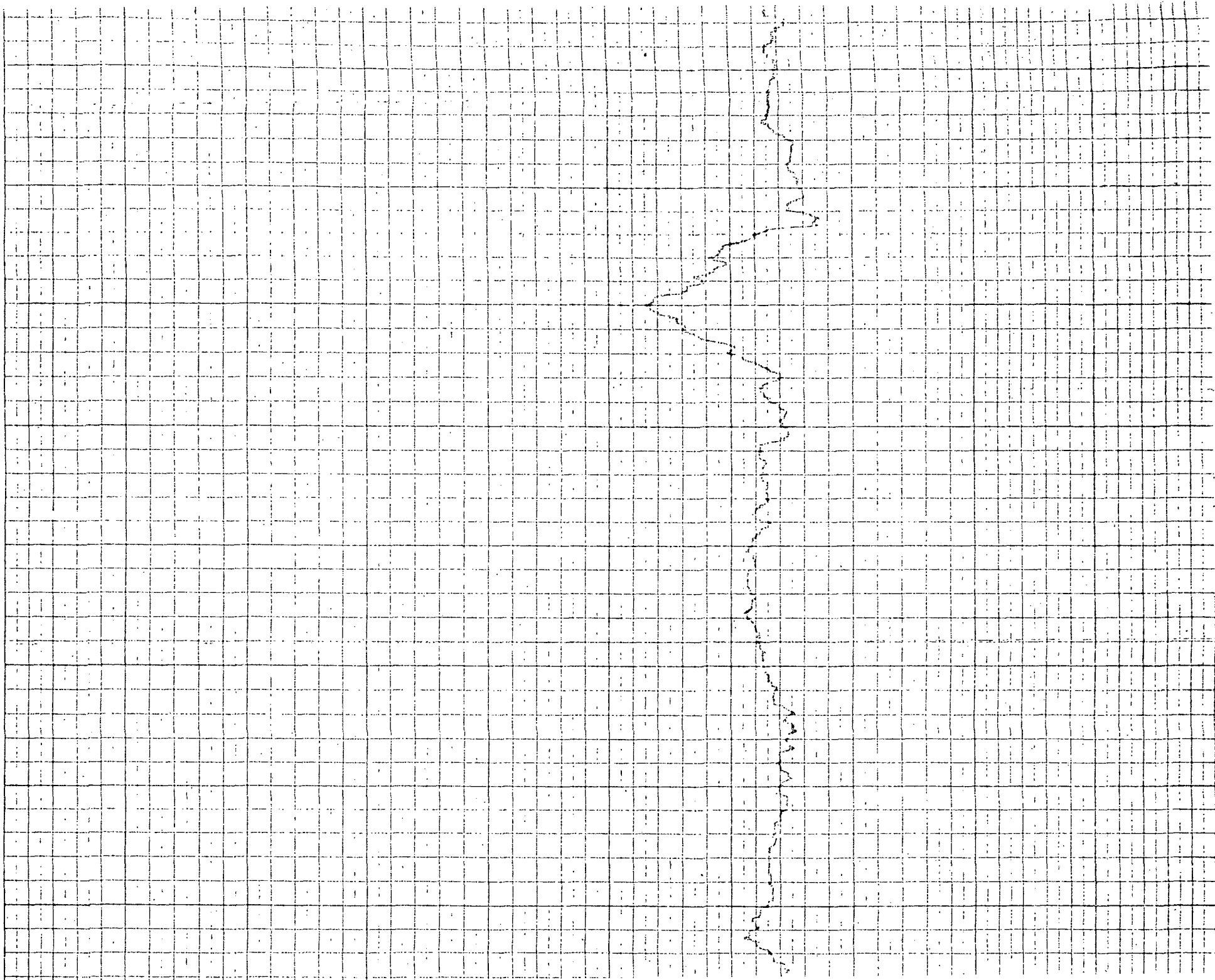
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3400-



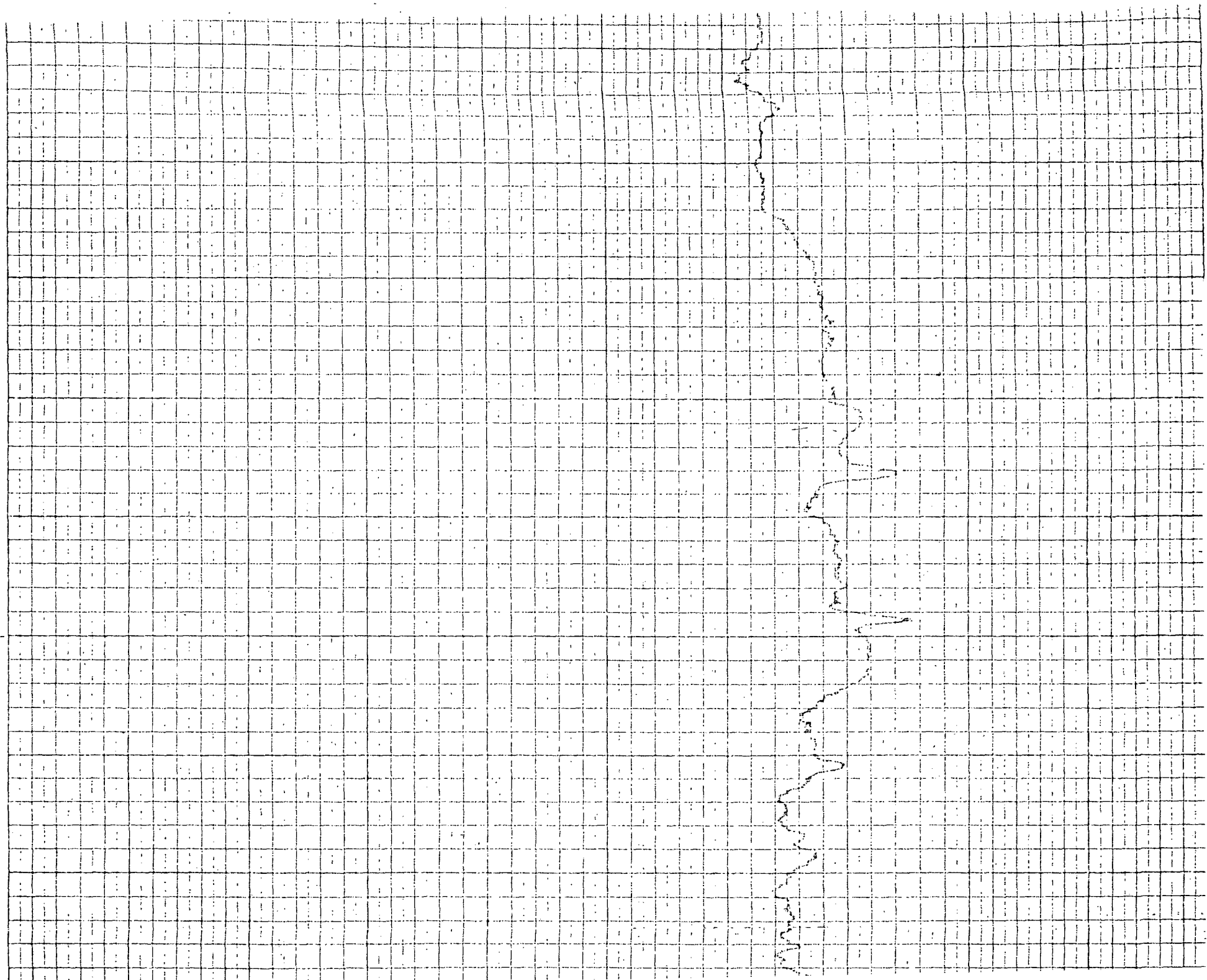
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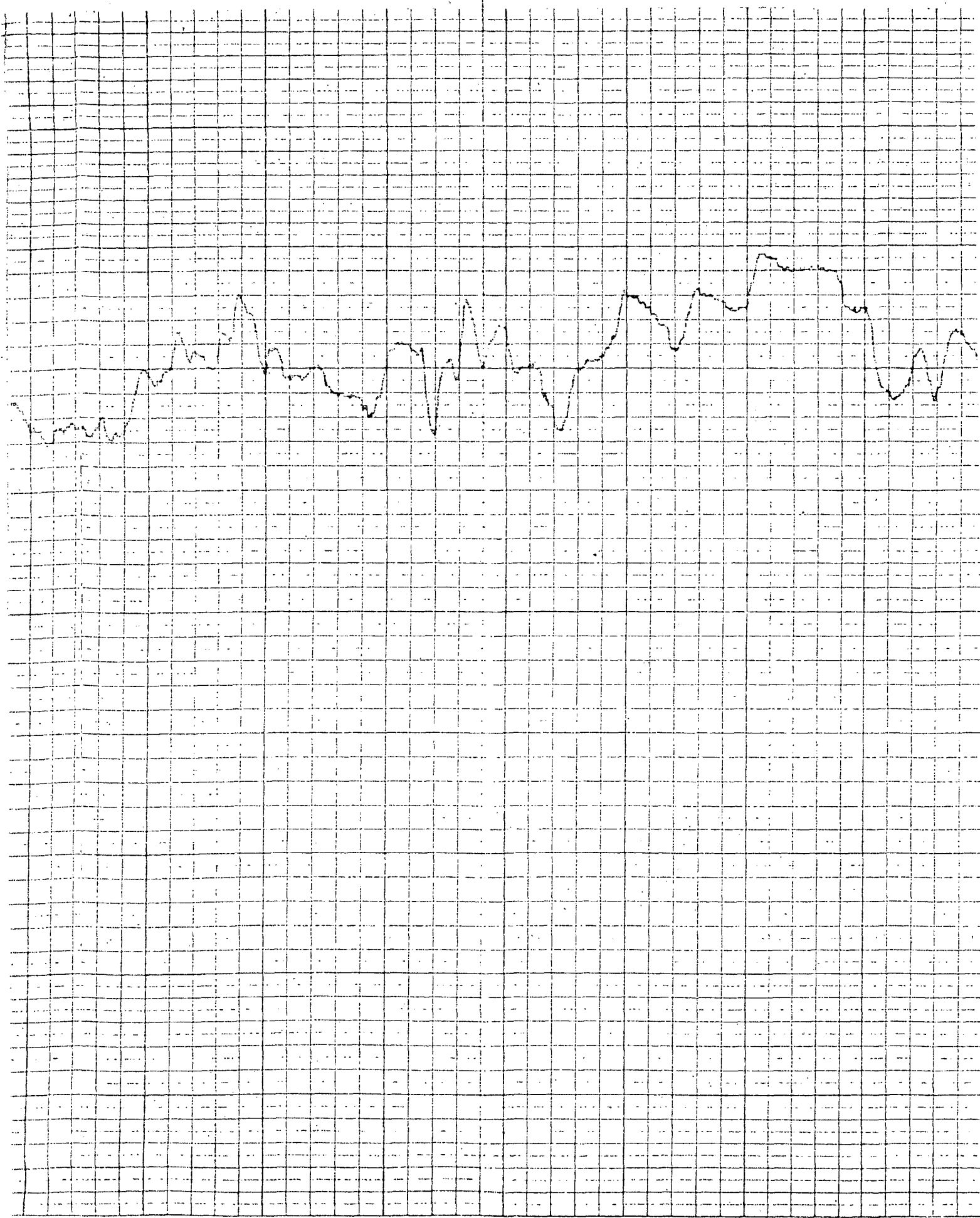
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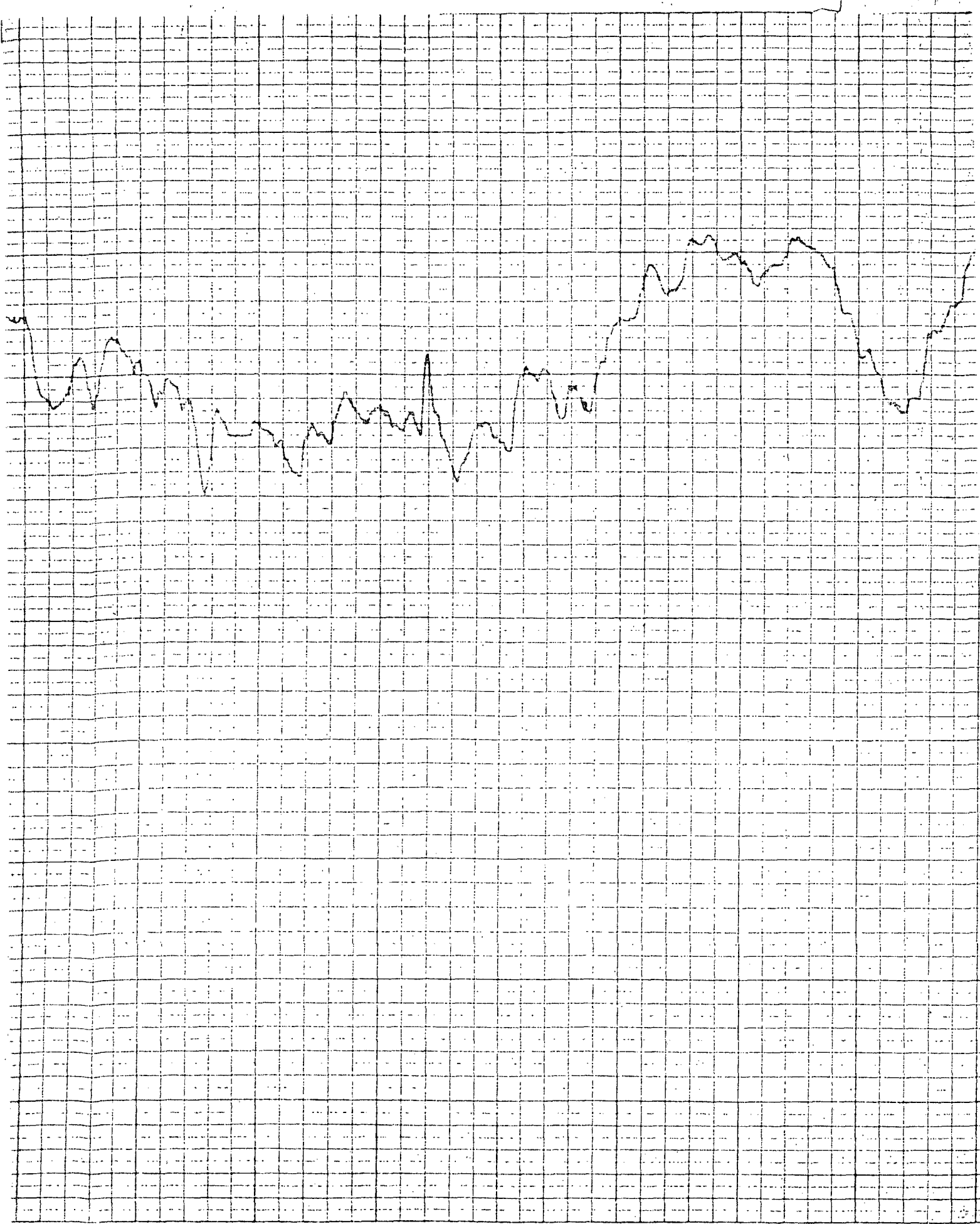


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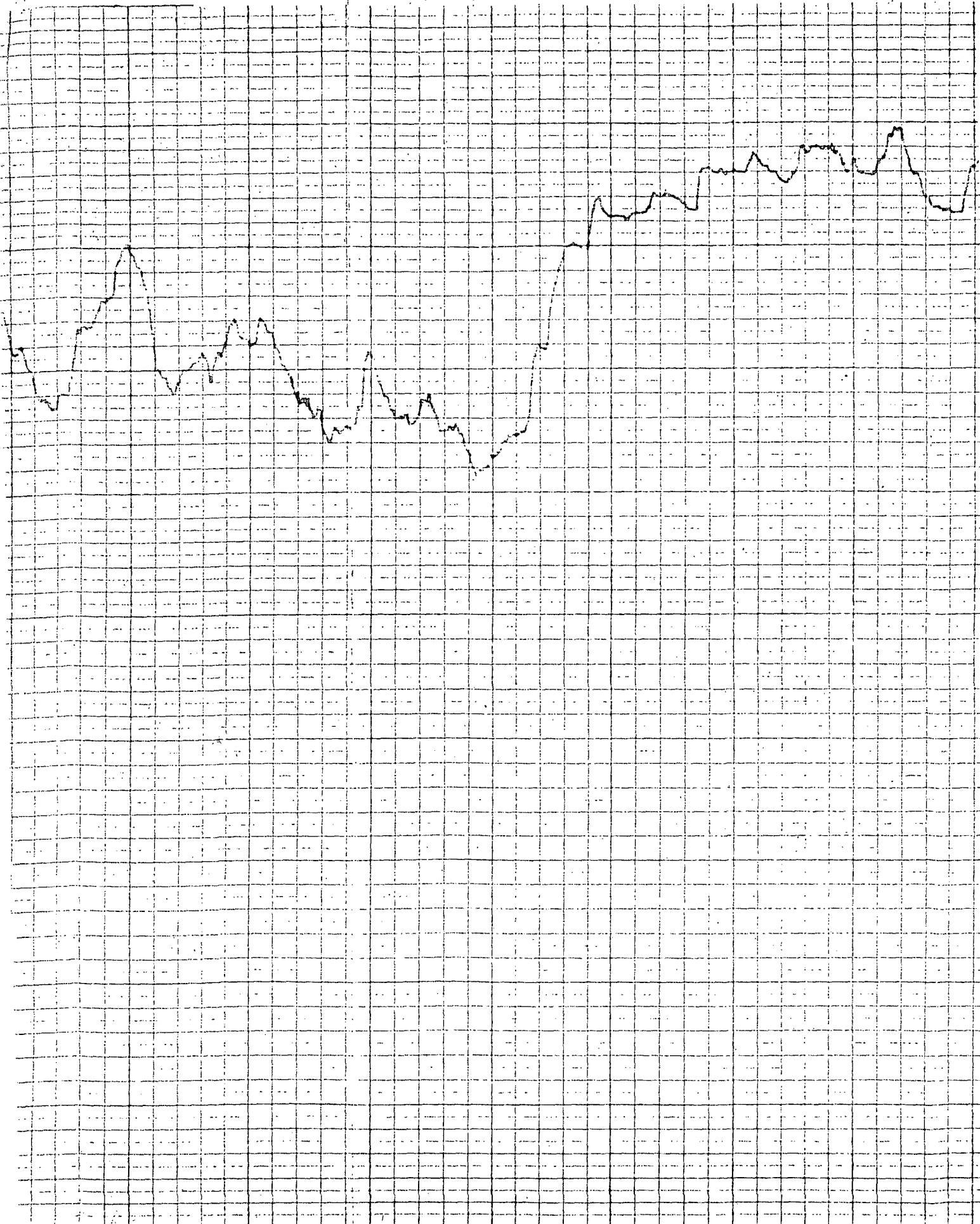
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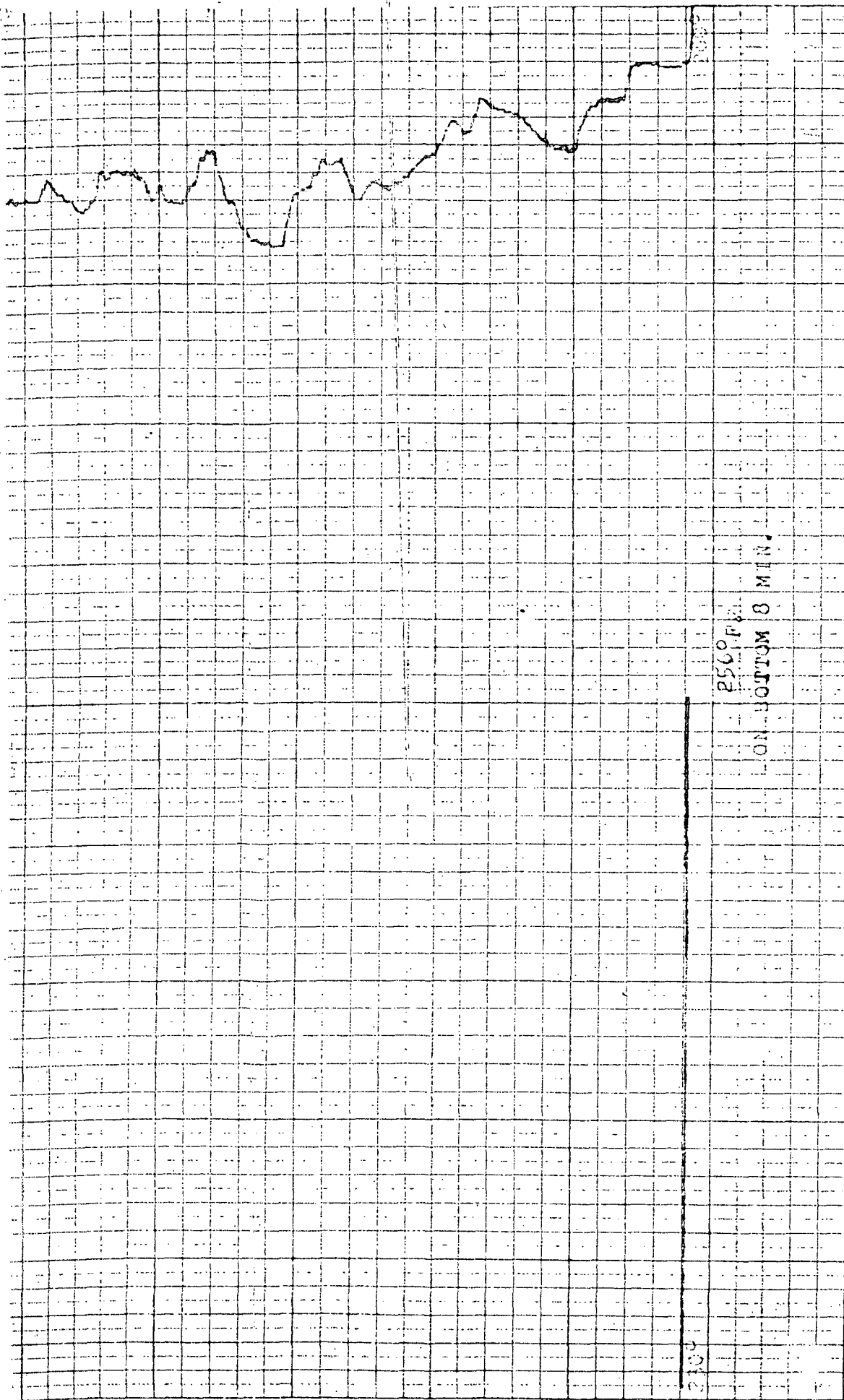












2500 F  
LONG BOTTOM 8 MIN.

Flow Time	1st 5 Min.	2nd 30 Min.	Date	2-23-64	Ticket Number	331922 - S
Closed In Press. Time	1st 20 Min.	2nd - Min.	Kind of Job	OPEN HOLE	Halliburton District	RIO VISTA
Pressure Readings	Field	Office Corrected	Tester	BOATMAN	Witness	BARR
Depth Top Gauge	1424' Ft.	YES Blanked Off	Drilling Contractor	BRINKERHOFF DRILLING COMPANY		
BT. P.R.D. No.	325	12 Hour Clock	Elevation	-	Top Packer	1409'
Initial Hydro Mud Pressure	691	727	Total Depth	3620'	Bottom Packer	-
Initial Closed in Pres.	630	629	Interval Tested	2163' OPEN HOLE	Formation Tested	-
Initial Flow Pres.	550	1 535 2 559	Casing or Hole Size	9 7/8"	Casing Perfs. { Top - Bot. -	
Final Flow Pres.	608	1 555 2 610	Surface Choke	1"	Bottom Choke	3/4"
Final Closed in Pres.	-	-	Size & Kind Drill Pipe	5 9/16" F.H.	Drill Collars Above Tester	I.D. - LENGTH 3.8" x 91'
Final Hydro Mud Pressure	679	727	Mud Weight	9.8	Mud Viscosity	48
Depth Con. Gauge	Ft.	Blanked Off	Temperature	279 & 290	*F Est. Anchor Size ID - *F Actual & Length	OD 3 7/8" X 21'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	1399' Ft.
Initial Hydro Mud Pres.			TYPE AMOUNT	Cushion NONE	Depth Back Pres. Valve	1394' Ft.
Initial Closed in Pres.			Recovered		Feet of	
Initial Flow Pres.			Recovered		Feet of	
Final Flow Pres.			Recovered		Feet of	
Final Closed in Pres.			Recovered		Feet of	
Final Hydro Mud Pres.			Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge	1427' Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	0# psi
BT. P.R.D. No.	273	12 Hour Clock	Tool Opened	2:45 AM	A.M. P.M. Tool Closed	3:40 AM A.M. P.M.
Initial Hydro Mud Pres.	692	720	Remarks	Tool opened for a 5 minute first flow. Ro-		
Initial Closed in Pres.	630	625		tated tool for a 20 minute initial closed in press-		
Initial Flow Pres.	549	1 539 2 559		ure. Tool reopened with a good blow. Mud to the		
Final Flow Pres.	608	1 553 2 609		surface in 12 minutes - flowed hot muddy water the		
Final Closed in Pres.	-	-		remainder of the test. Pulled loose and reversed		
Final Hydro Mud Pres.	679	720		out fluid.		

Legal Location Sec. - Twp. - Rng. 6 - 19N - 31E  
 Lease Name  
 Well No.  
 Test No.  
 Field Area  
 STILLWATER  
 County  
 CHURCHILL  
 State  
 NEVADA  
 Lease Owner/Company Name  
 Owner's District

FORMATION TEST DATA

SPECIAL PRESSURE DATA

55192375

TIME

PRESSURE

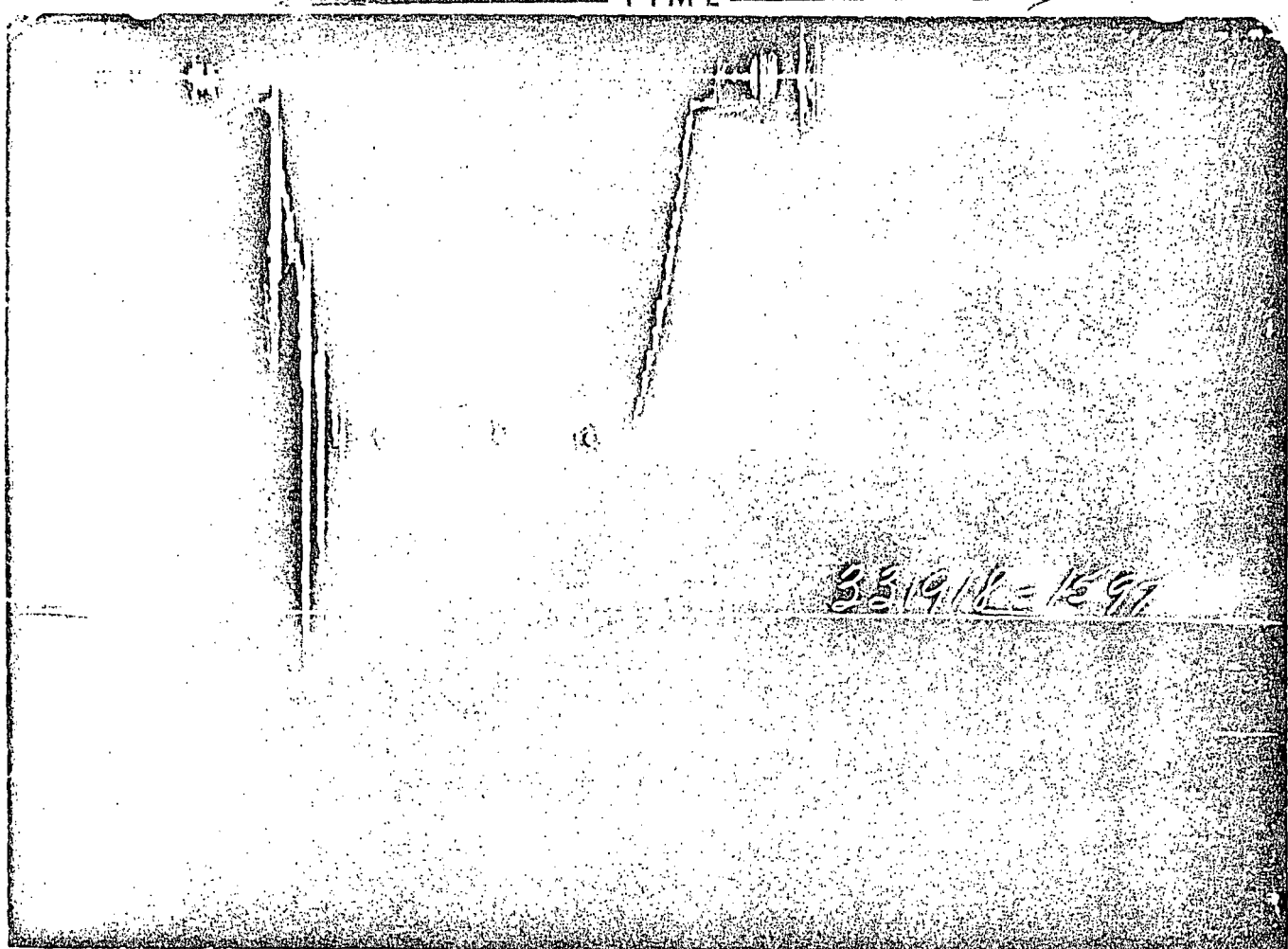
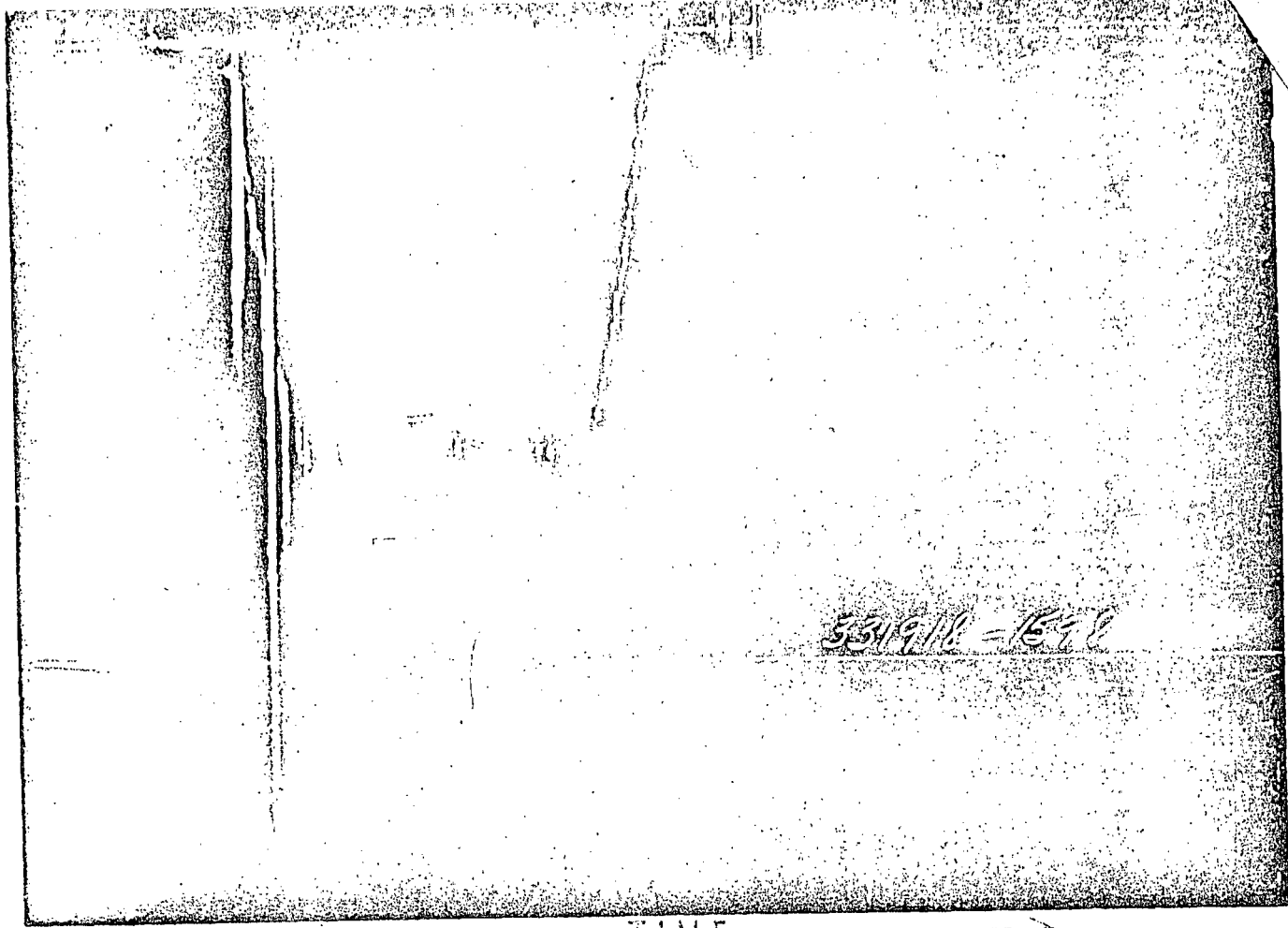
55192375

Flow Time	1st Min.	2nd Min.	75	Date	2-24-54	Ticket Number	331918	Legal Location Sec. - Twp. - Rng.  6-19N-31E  1 Well No.  1 Test No.  J. I. O'NEILL OIL PROPERTIES Lodge Owner/Company Name  MIDLAND Operator District
Closed In Press. Time	1st Min.	2nd Min.		Kind of Job	Production	Halliburton District	Rio Vista	
Pressure Readings	Field	Office Corrected		Tester	C. H. BOATMAN	Witness	JACK BARR	
Depth Top Gauge	1124 Ft.	yes	Blanked Off	Drilling Contractor	BRINKERHOFF DRLG CO.			
BT. P.R.D. No.	1598	12	Hour Clock	Elevation	-	Top Packer	1112'	
Initial Hydro Mud Pressure	672	670		Total Depth	1582'	Bottom Packer		
Initial Closed in Pres.				Interval Tested	1112-1582'	Formation Tested		
Initial Flow Pres.	441	2	441	Casing or Hole Size	9 7/8"	Casing Perfs.	Top Bot.	
Final Flow Pres.	608	2	609	Surface Choke	1"	Bottom Choke	3/4"	
Final Closed in Pres.				Size & Kind Drill Pipe	5 9/10" FH	Drill Collars Above Tester	I.D. - LENGTH 3.8" x 85'	
Final Hydro Mud Pressure	663	653		Mud Weight	8.9	Mud Viscosity	36	
Depth Cen. Gauge			Blanked Off	Temperature	312	Anchor Size & Length	ID OD 2 7/8" x 19'	
BT. P.R.D. No.			Hour Clock	Depths Mea. From	Kelly Bushing	Depth of Tester Valve	1102 Ft.	
Initial Hydro Mud Pres.				TYPE AMOUNT		Depth Back Pres. Valve	Ft.	
Initial Closed in Pres.				Recovered		Foot of		
Initial Flow Pres.		1		Recovered		Foot of		
Final Flow Pres.		1		Recovered		Foot of		
Final Closed in Pres.		2		Recovered		Foot of		
Final Hydro Mud Pres.				Oil A.P.I. Gravity		Water Spec. Gravity		
Depth Bot. Gauge	1128 Ft.	yes	Blanked Off	Gas Gravity		Surface Pressure	psi	
BT. P.R.D. No.	1597	12	Hour Clock	Tool Opened	7:45 PM	A.M. P.M. Tool Closed	3:00 PM A.M. P.M.	
Initial Hydro Mud Pres.	676	677		Remarks	Open tool with a medium blow, mud to surface in 13 mins. Flowing hot mud to water.			
Initial Closed in Pres.					196° on surface flow. Pulled loose after test and reversed out hot water.			
Initial Flow Pres.	445	2	444					
Final Flow Pres.	608	2	610					
Final Closed in Pres.								
Final Hydro Mud Pres.	665	651						

### FORMATION TEST DATA

\* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,  
Fresh Water Corrected to 100° F.

↑ PRESSURE ↓



Each horizontal line equal to 1000 p.s.f.

Flow Time	1st 4	Min.	2nd 39	Min.	Date	2-18-64	Ticket Number	331920 S
Closed In Press. Time	1st 15	Min.	2nd -	Min.	Kind of Job	Open Hole	Halliburton District	Rio Vista
Pressure Readings	Field		Office Corrected		Tester	C.H. Boatman	Witness	Jack Barr
Depth Top Gauge	2992	Ft.	no	Blanked Off	Drilling Contractor	Brinkerhoff Drlg Co.		
BT. P.R.D. No.	325		12	Hour Clock	Elevation		Top Packer	3002'
Initial Hydro Mud Pressure	1431		1453		Total Depth	3258'	Bottom Packer	3009'
Initial Closed in Pres.	1231		1257		Interval Tested	3258-3009'	Formation Tested	-
Initial Flow Pres.	1089	1	1154		Casing or Hole Size	9 7/8"	Casing Perf.	Top
		2	1110					Bot.
Final Flow Pres.	1231	1	1140		Surface Choke	1"	Bottom Choke	3/4"
		2	1249					
Final Closed in Pres.	-		-		Size & Kind Drill Pipe	5 9/16" FH	Drill Collars Above Tester	I.D. - LENGTH 3.8" x 85'
Final Hydro Mud Pressure	1419		1415		Mud Weight	9.7	Mud Viscosity	36
Depth Can. Gauge		Ft.	Blanked Off		Temperature	278	*F Est.	Anchor Size ID
							*F Actual	& Length OD
BT. P.R.D. No.				Hour Clock	Depths Mea. From	Kelly bushing	Depth of Tester Valve	2987 Ft.
Initial Hydro Mud Pres.					TYPE	AMOUNT	Depth Back Pres. Valve	2982 Ft.
								Cushion
Initial Closed in Pres.					Recovered	Feet of		
Initial Flow Pres.					Recovered	3048	Feet of	drlg fluid & hot water
Final Flow Pres.					Recovered	Feet of		
Final Closed in Pres.					Recovered	Feet of		
Final Hydro Mud Pres.					Oil A.P.I. Gravity		Water Spec. Gravity	
Depth Bot. Gauge	3054	Ft.	yes	Blanked Off	Gas Gravity		Surface Pressure	psi
BT. P.R.D. No.	273		12	Hour Clock	Tool Opened	10:22 AM	A.M. P.M.	Tool Closed
Initial Hydro Mud Pres.	1479		1483		Remarks	Open tool with a medium blow		
Initial Closed in Pres.	1277		1278			decreasing to dead in 24 mins, dead		
Initial Flow Pres.	1208	1	1222			remainder of test.		
		2	1228					
Final Flow Pres.	1270	1	1209					
		2	1271					
Final Closed in Pres.	-		-					
Final Hydro Mud Pres.	1479		1440					

Legal Location Sec. - Twp. - Rng. 6-19N-31E  
 Lease Name  
 Well No. 1  
 Test No. 2  
 Field Area  
 STILWATER  
 County  
 CHURCHILL  
 State  
 NEVADA  
 Owner's Name  
 J. I. O'NEILL JR  
 Owner's District  
 MIDLAND

FORMATION TEST DATA

SPECIAL PRESSURE DATA

Form No. 1296-R1

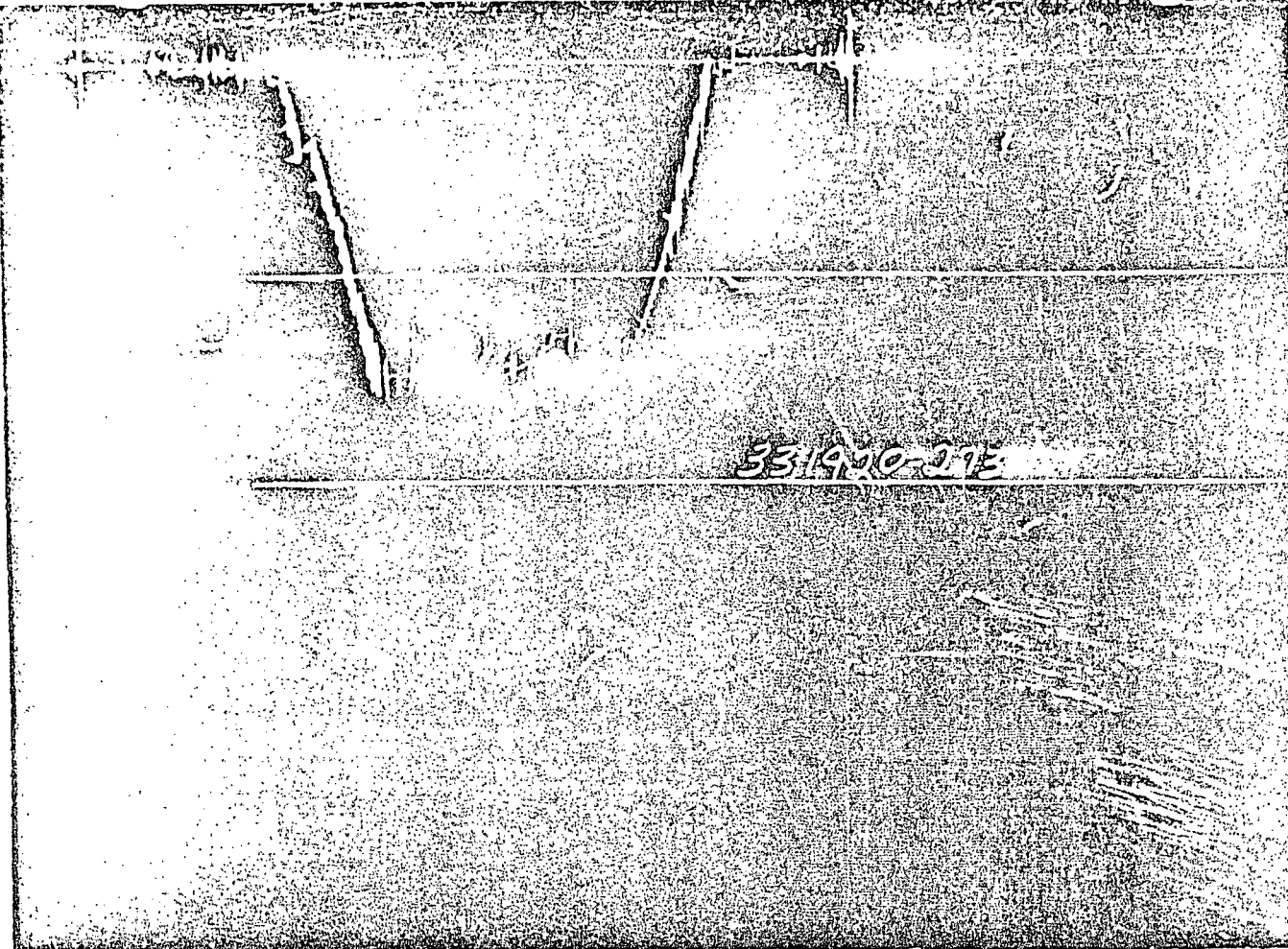
UNIVERSITY OF UTAH  
 RESEARCH INSTITUTE  
 EARTH SCIENCE LAB.

8



PRESSURE

TIME





NEVADA OIL AND GAS CONSERVATION COMMISSION

Box C, University Station

Reno, Nevada

PLUGGING RECORD

To be filed within fifteen (15) days after well has been plugged. Rule 204, NOGCC.

NOTE:  
ALTHOUGH GEOTHERMAL WELLS ARE NOT COVERED BY THE NEVADA O & G COMMISSION WE WISH TO SUBMIT THIS FOR INFORMATION PURPOSES.

JOSEPH I. O'NEILL, JR. REYNOLDS  
(Company or Operator) (Lease)

Well No. 1 in WEST HALF of  
Section 6 T 19N R 31E M.D.B.M.  
Field County CHURCHILL  
Permit No.

Date well plugged MARCH 2, 19 64

Was the well filled with mud-laden fluid according to regulations of the Nevada Oil and Gas Conservation Commission? YES

How was mud applied? PUMP Were plugs used? YES If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depths placed. Show also amount of cement and rock used.

Was notice given before plugging to Nevada Oil and Gas Conservation Commission? Date, 19

4 JTS. 20" 94# H-40 ST&C : 125.73' CEMENTED W/327 CU. FT. CEMENT CIRCULATED TO SURFACE LEFT IN HOLE  
10 JTS. 16" 65# H-40 ST&C: 320.12 CEMENTED W/320 CU. FT. CEMENT CIRCULATED TO SURFACE LEFT IN HOLE  
47 JTS. 10 3/4" 45.5 J-55 ST&C: 1441.06' CEMENTED W/1125 CU. FT. CEMENT CIRCULATED TO SURFACE LEFT IN HOLE

CEMENT PLUGS PLACED AS FOLLOWS:

PLUG #1 3200 TO 3100' 50 CU. FT.  
PLUG #2 2325 TO 2225' 50 CU. FT.  
PLUG #3 1550 TO 1350' 100 CU. FT.  
PLUG #4 900 TO 700' 100 CU. FT.  
PLUG #5 200 TO SURFACE 100 CU. FT.

D & A - MARCH 2, 1964

I hereby certify that the information given herewith is a true, correct and complete record of this well and all work done on it so far as can be determined from the available records.

Name: *E. J. Anderson*  
Position: DRILLING & PRODUCTION SUPERINTENDENT  
Company or Operator: JOSEPH I. O'NEILL, JR.  
Address: 410 WEST OHIO  
City: MIDLAND State: TEXAS  
Date: APRIL 7 19 64

UNIVERSITY OF UTAH  
RESEARCH INSTITUTE  
EARTH SCIENCE LAB.

# DRILLING MUD TEMPERATURE

REYNOLDS 1  
STILLWATER, NEVADA

MEAN PUMP RATE: 580 GPM

Temperature OF

150

FLOW  
LINE

SUCTION  
LINE

100

50

1000

2000

3000

4000

5000

DEPTH IN FEET

