

SCHLUMBERGER

SCHLUMBERGER OF CANADA Calgary Alberta

BOREHOLE COMPENSATED SONIC LOG

PROVINCE YUKON TERRITORIES
 FIELD WILDCAT
 WELL PAN AM SHELL MERRILL ST
 COMPANY PAN AMERICAN PETROLEUM CORPORATION

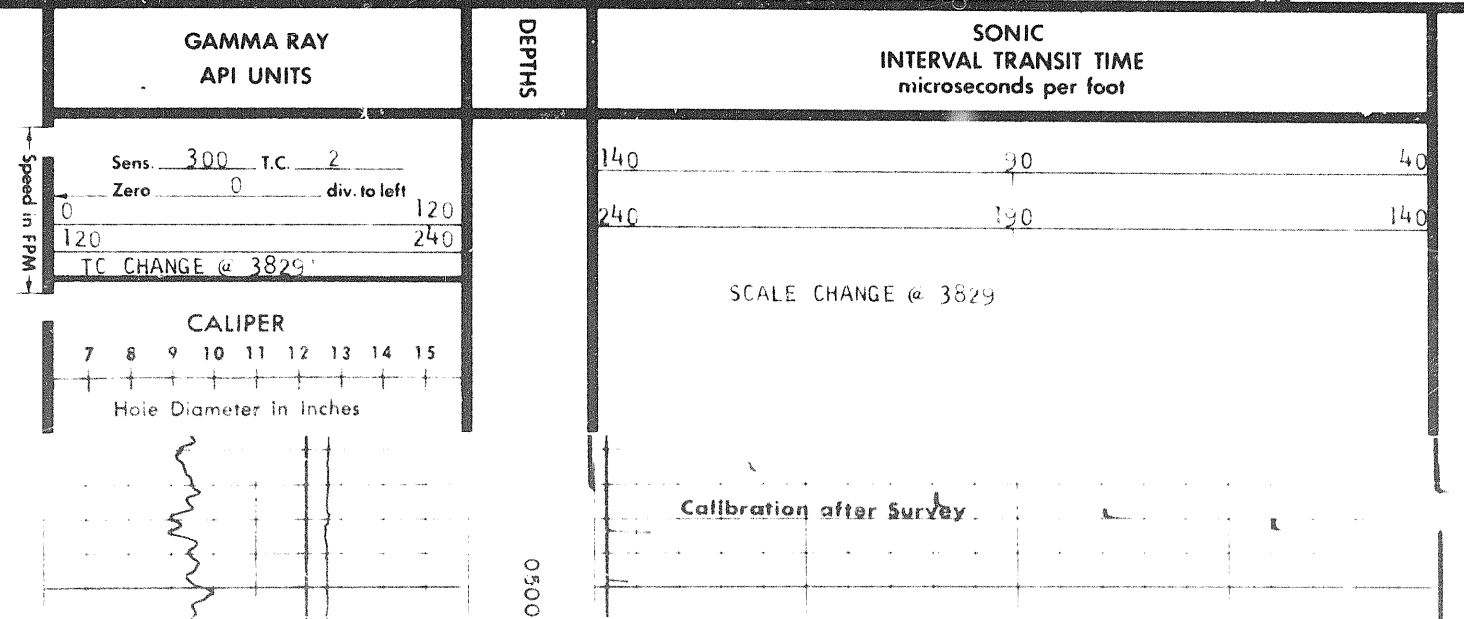
COMPANY PAN AMERICAN PETROLEUM CORPORATION
 WELL PAN AM SHELL MERRILL ST L-60
 FIELD WILDCAT
 PROVINCE YUKON TERRITORIES
 LOCATION 60° 20' N LAT
 124° 15' W LONG
 Permanent Datum GL Elev. 1937.5
 Log Measured From KB 12.5 Ft. Above Perm. Datum
 Other Services: FDC, SNP, DIL, HDT
 ELEV. KB 1950.0
 GL 1937.5
 CBF

Date	17 FEB 69	3 MAR 69
Run No.	ONE	TWO
First Reading	3829	5365
Last Reading	516	3834
Feet Measured	3313	1531
Depth Reached	3831	5367
Bottom Driller	3833	5362
Csg. SOC	516	3834
Csg. Driller	516	3831
Mud Nature	GEL CHEM	GEL CHEM
Dens. Visc	9.5	35
Mud pH	7.4	8.0
Water Loss	10.0	6.4
Res. @ BHT	0.12 @ 154	0.70 @ 126
Rmt	0.27 @ 67	1.92 @ 72
Rmc	-	-
Bit Size	12 1/4"	8 1/2"
Spool	1'	2'
Cpr. Rig Time	2.5 HRS	1.5 HRS
Truck No.	3703 DC	3702 DC
Recorded By	ALEXANDER	ALEXANDER
Witness	NAGEL	NAGEL

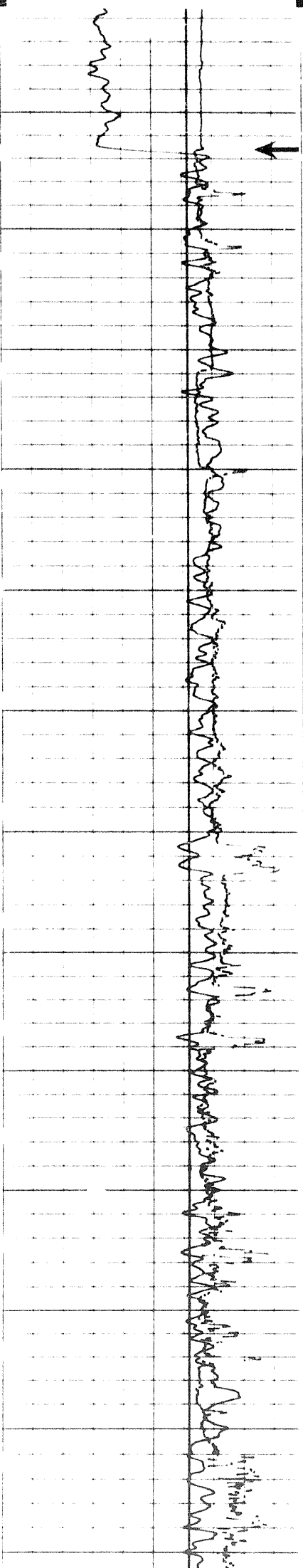
MAR 17/69 CAL EH
 REMARKS
 Drilling Stopped RUN 2 / Circulation Stopped 1100 / 18th / Tool on Bottom 1630 / 18th / 1400 / 3rd
 1st Run Service Order # 42383
 B.H.T. 154 / 176

Caliper No.	D863	D180
Cartridge No.	B178	B
Panel No.	A199	A 78
Sonde No.	E	A 58
Centralizer Type	STANDOFF & CALIPER	

GAMMA RAY CALIBRATION:			
Background CPS.	Test Source CPS.	Galv. Increase Divisions	Panel Sens. Tap for Cal.
RUN2 40	440	8.3	500
40	440	8.25	CAL



Hole Diameter in Inches



0500
Casing

0600

0700

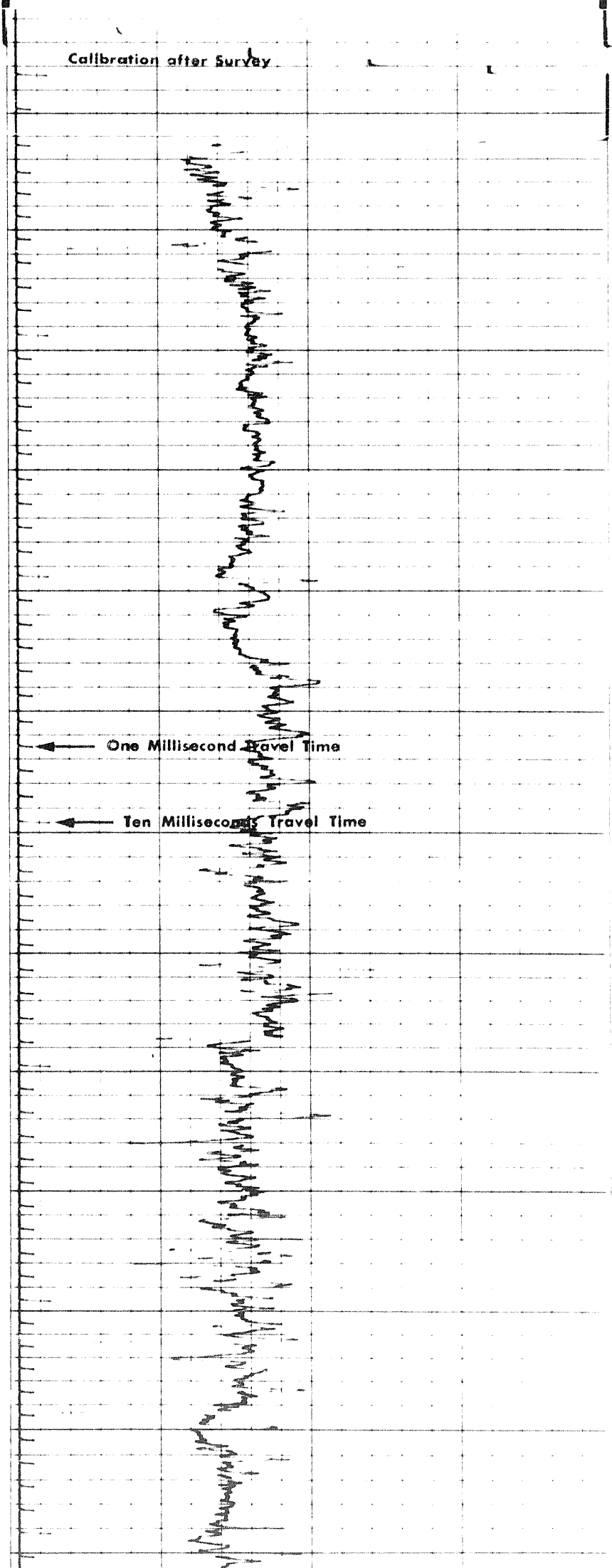
0800

0900

1000

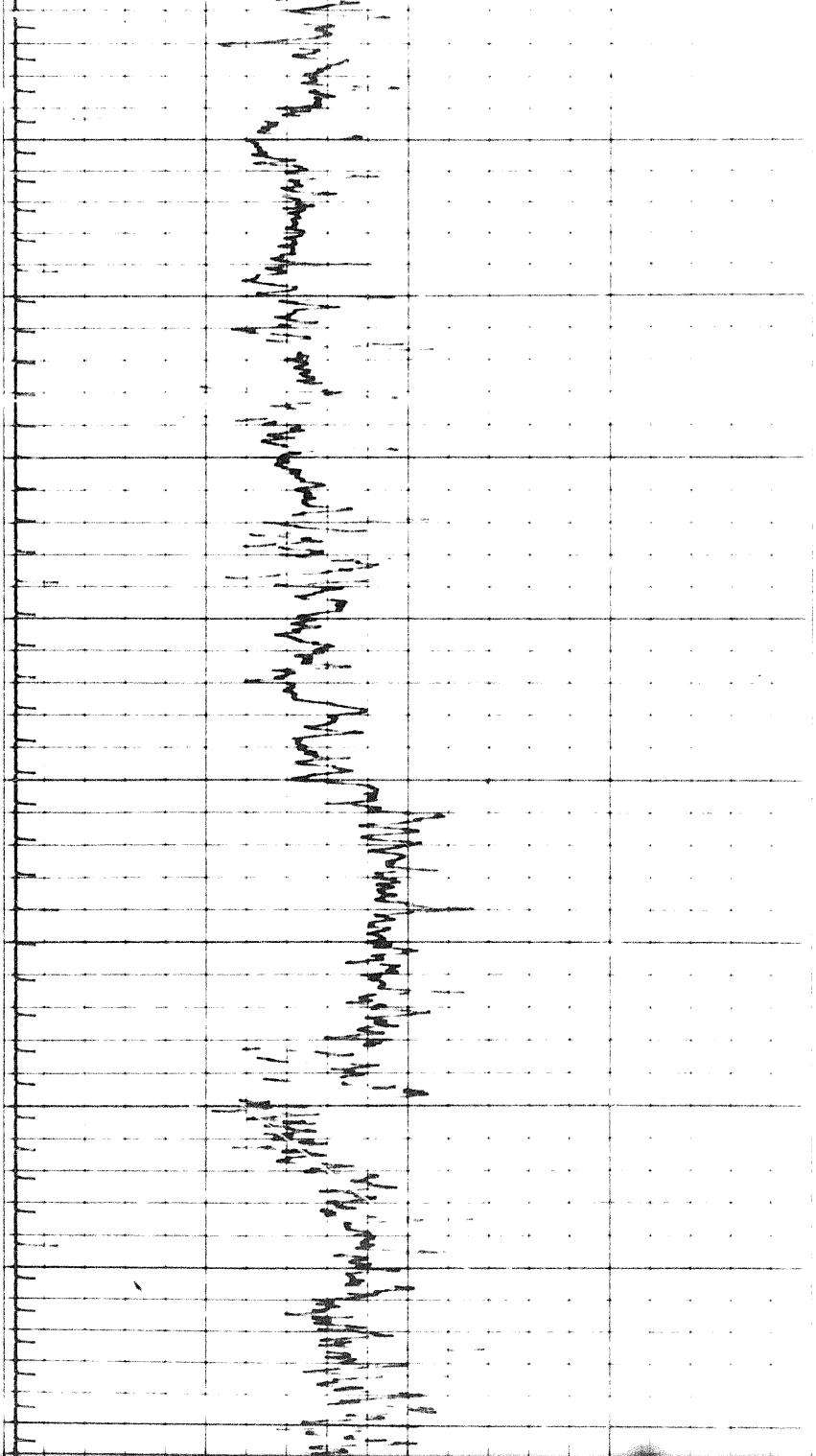
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Calibration after Survey



One Millisecond Travel Time

Ten Milliseconds Travel Time

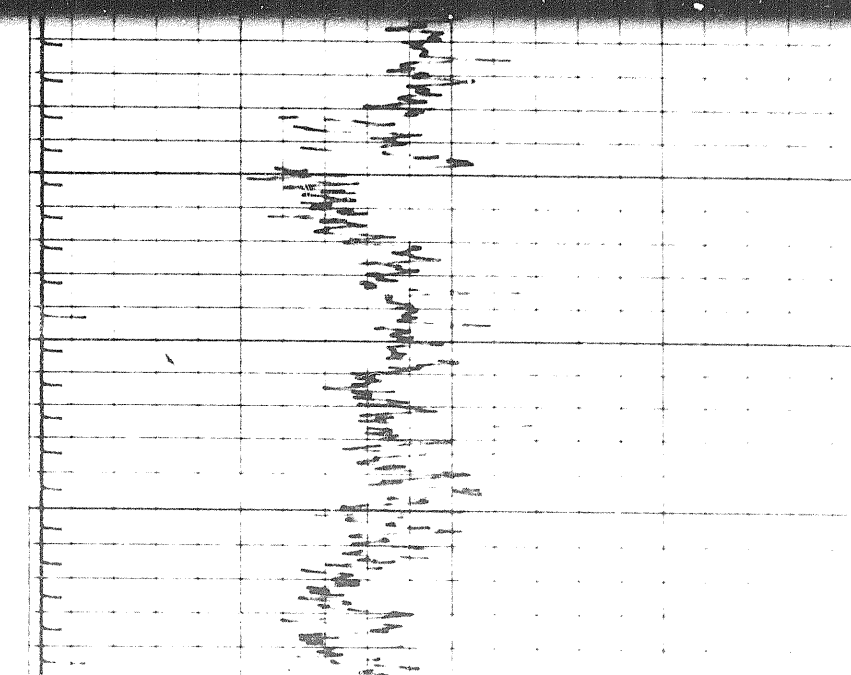
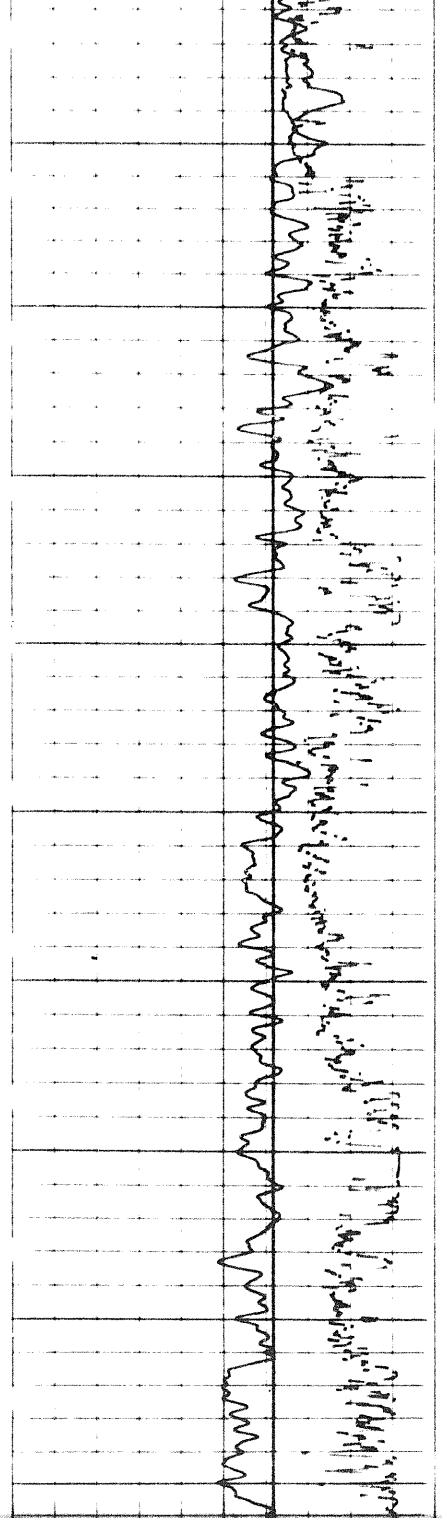


1100

1200

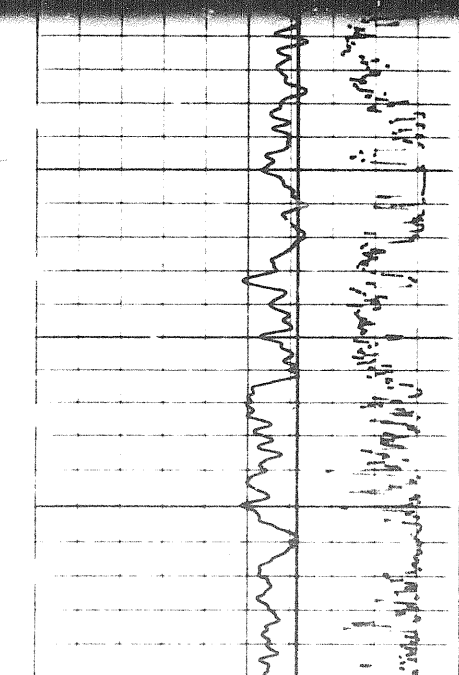
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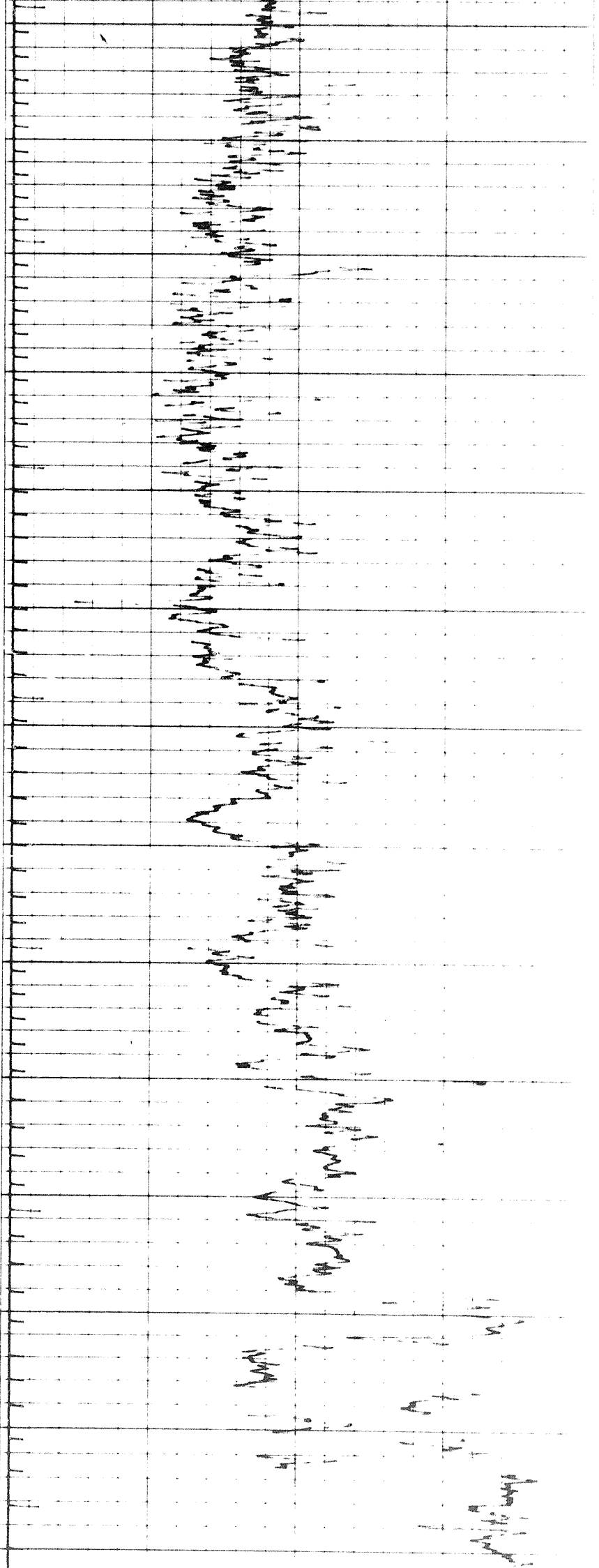
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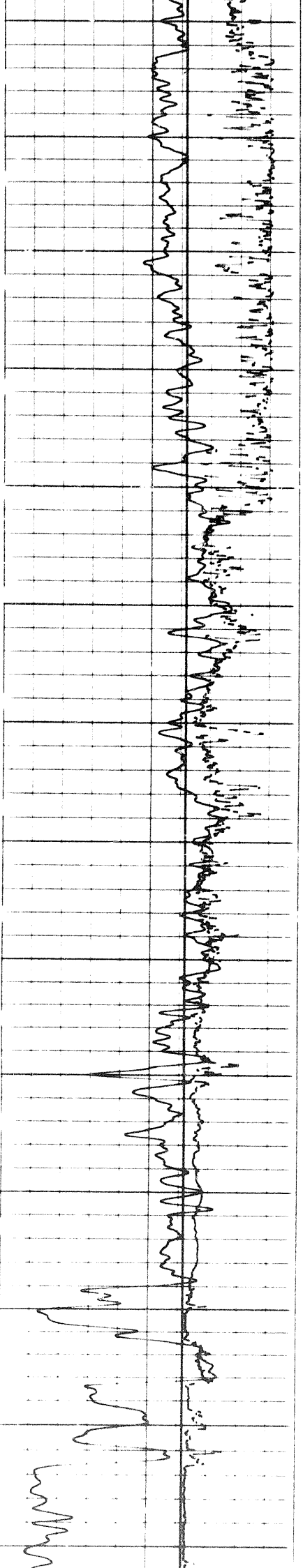
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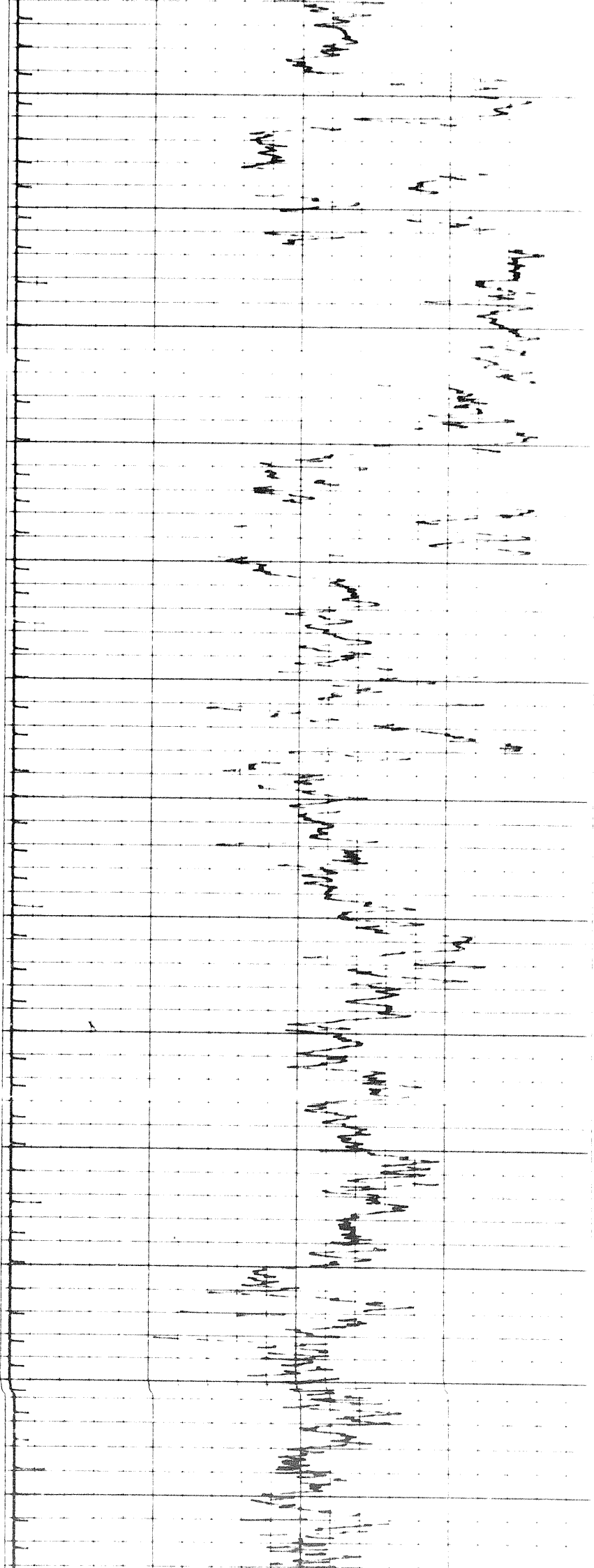




1400 1500 1600 1700 1800 1900 2000



9.26



2000

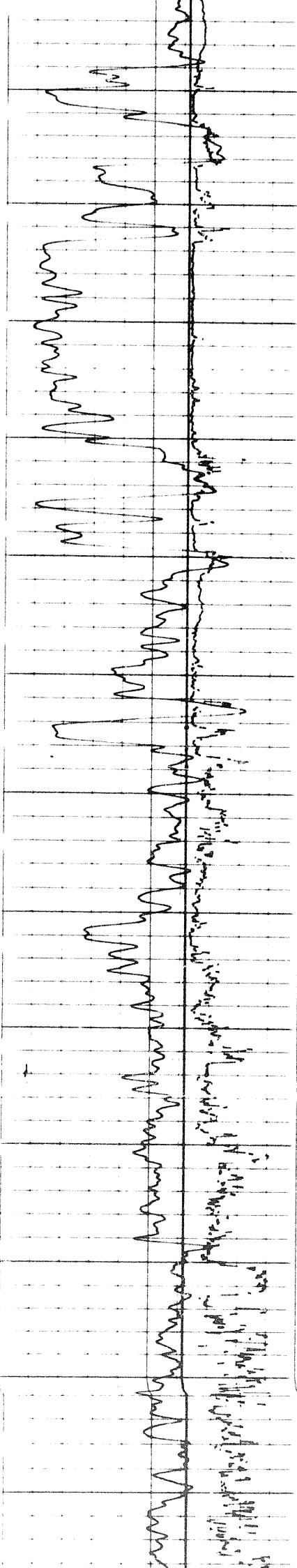
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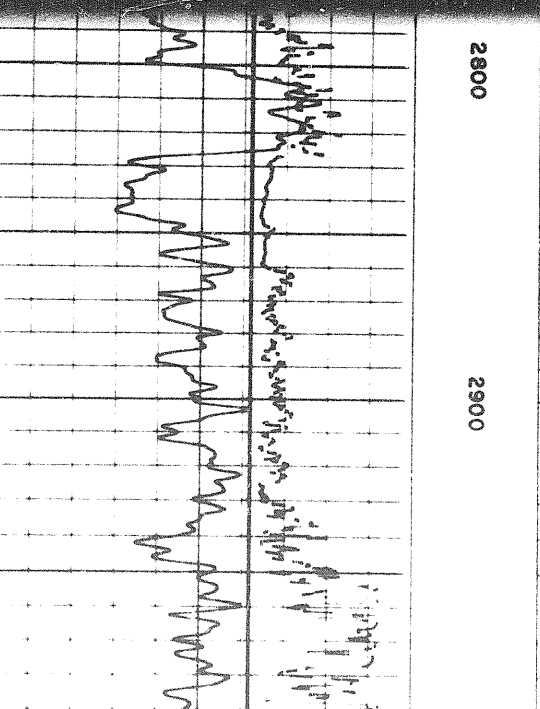
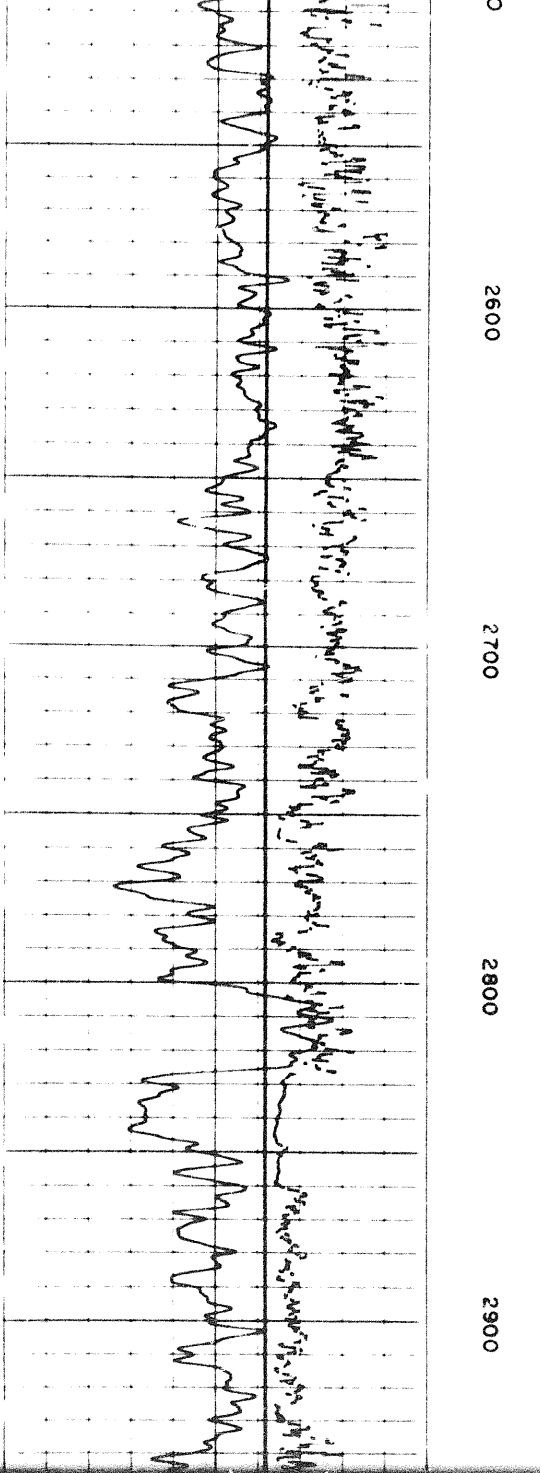
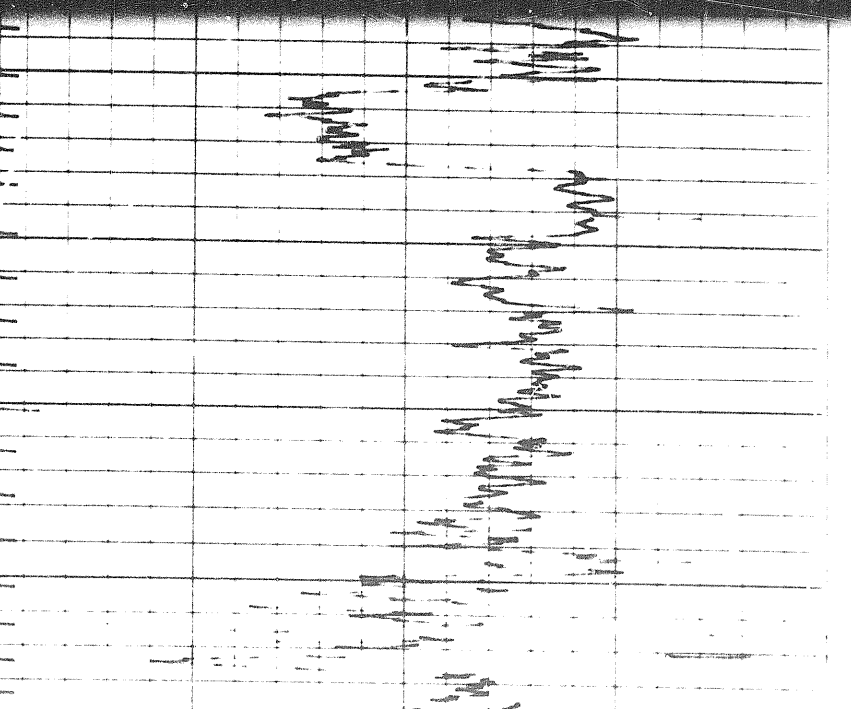
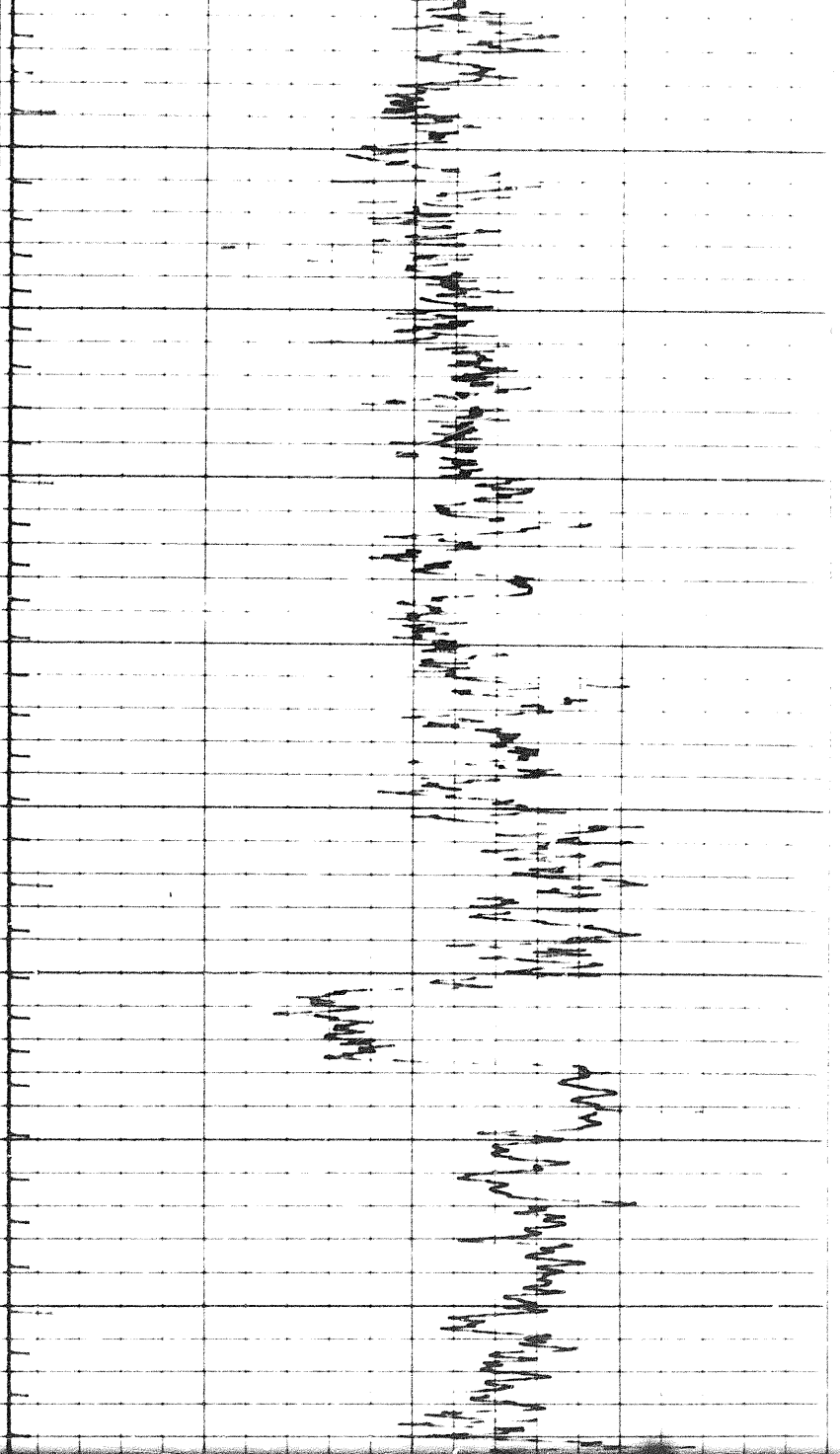
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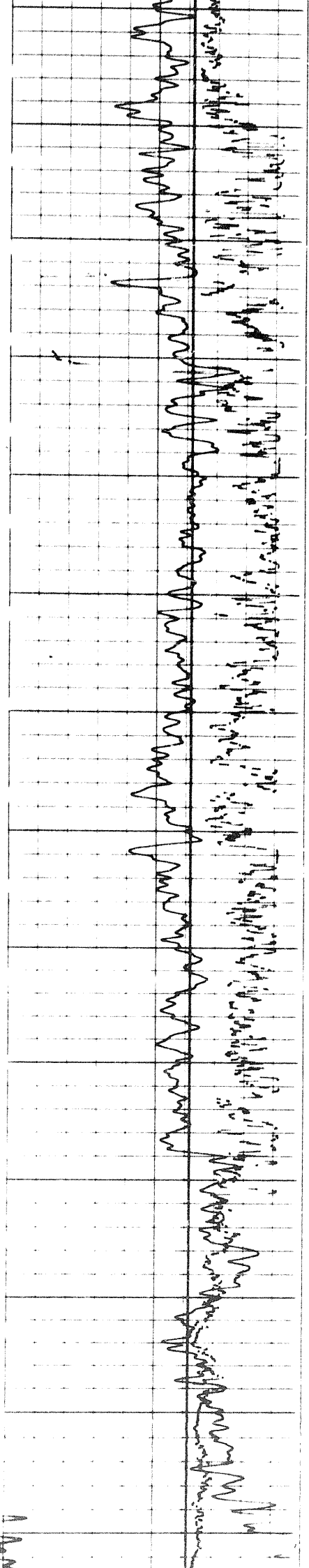
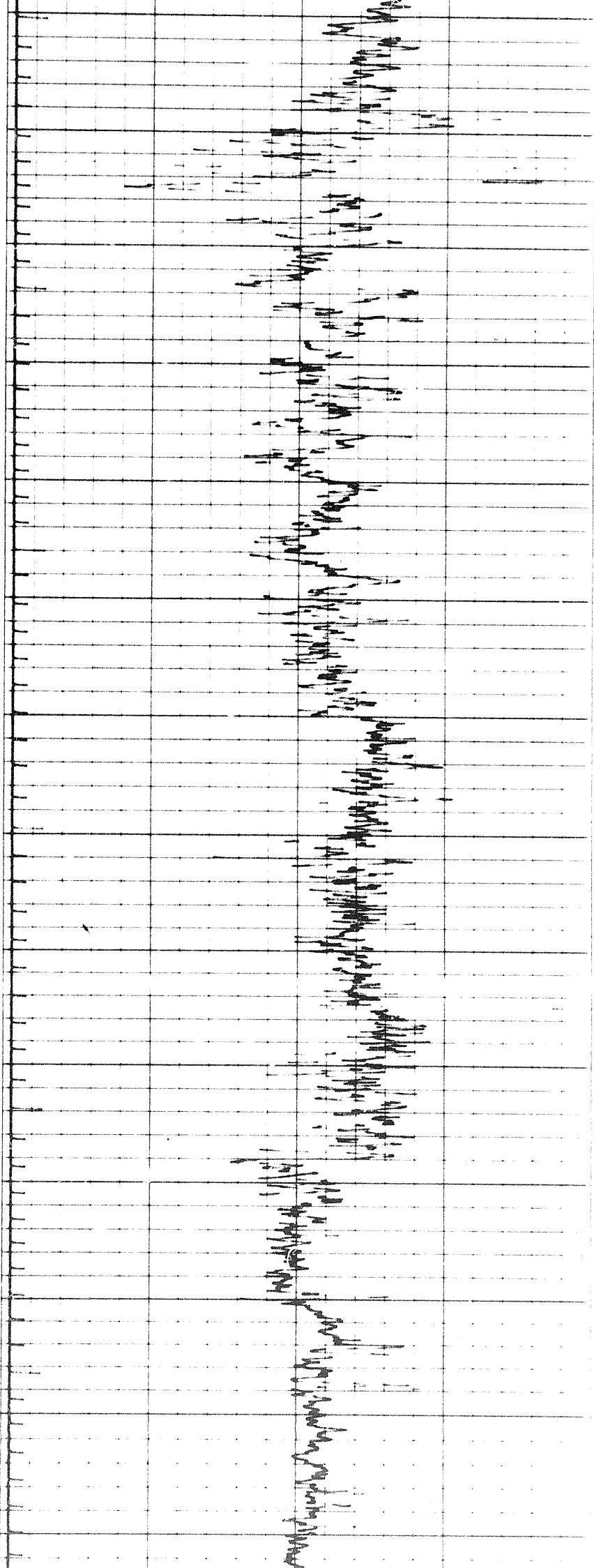
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2400

2500

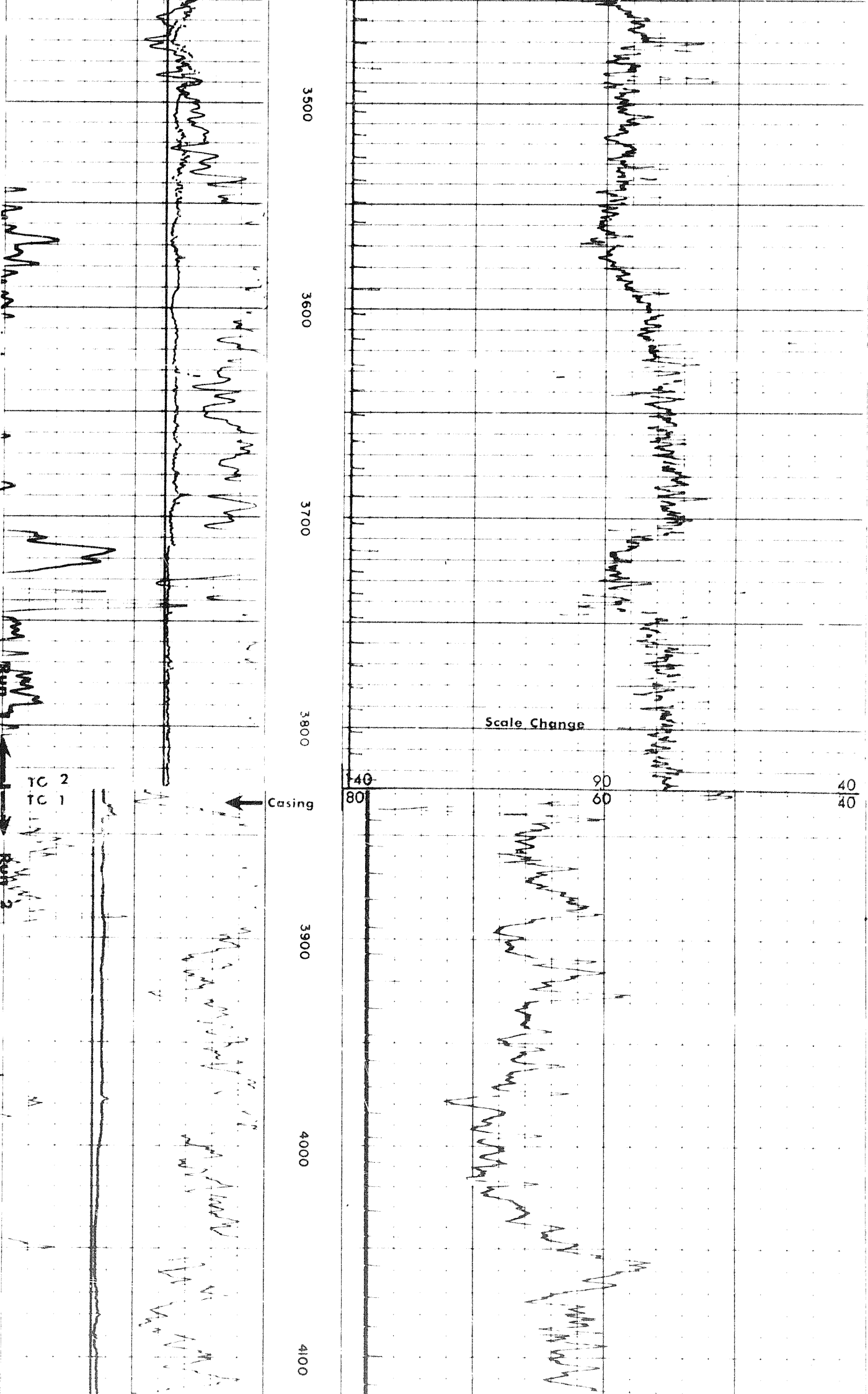






304

A. A. M.



TC 2
TC 1
Rush 2

Casing

3900

4000

4100

4200

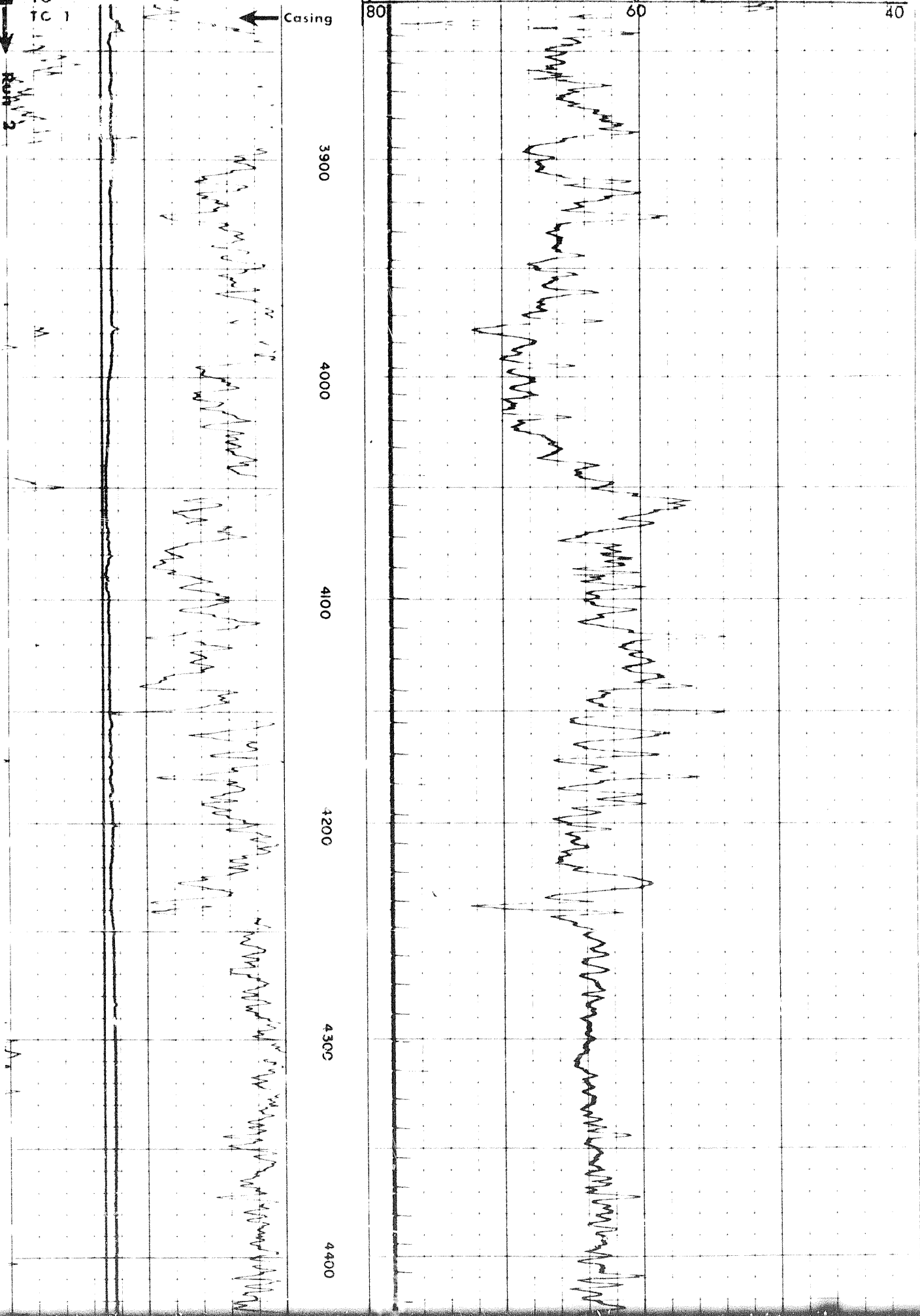
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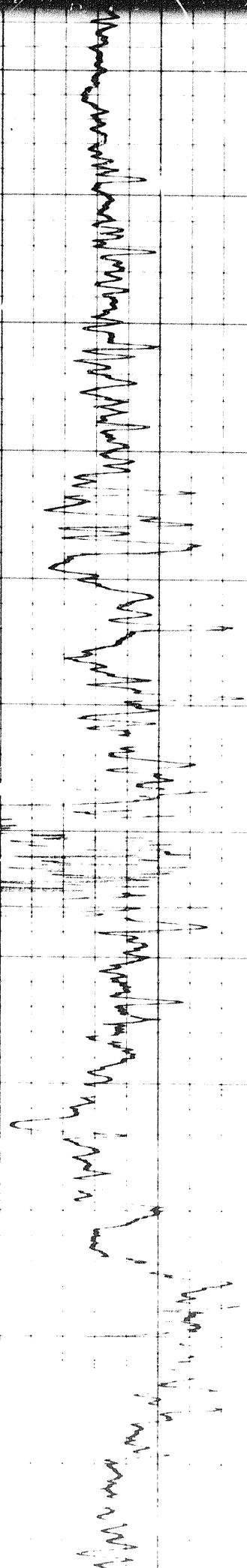
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140
80

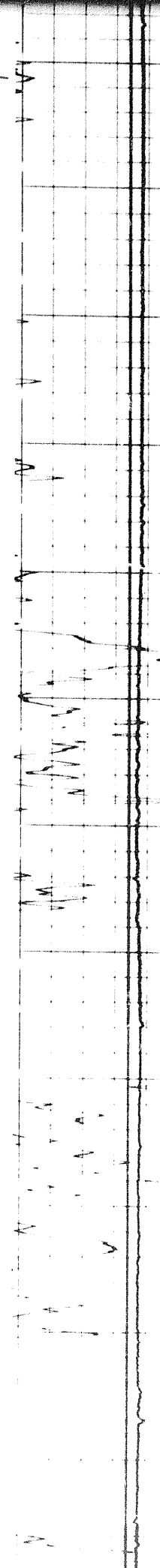
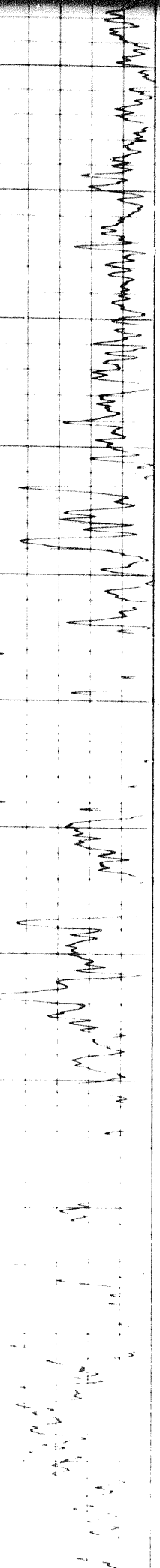
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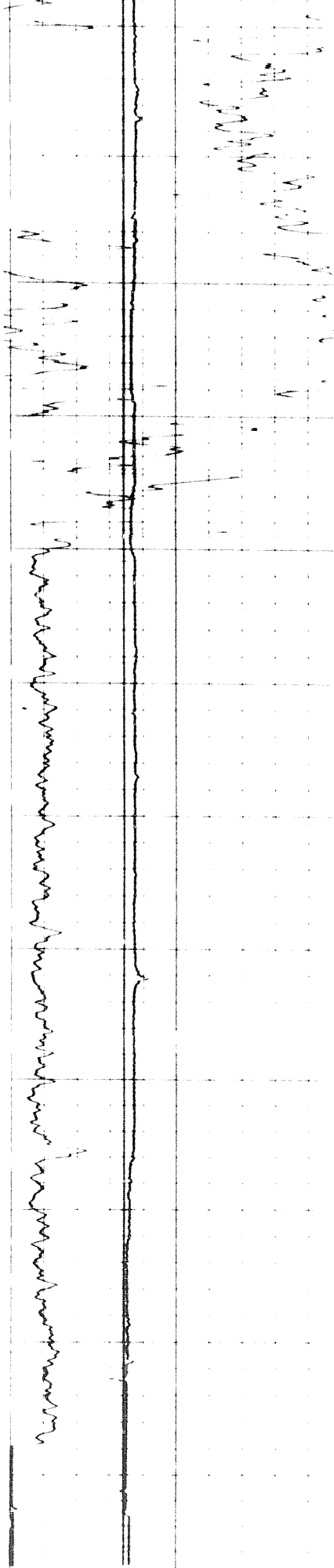
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40



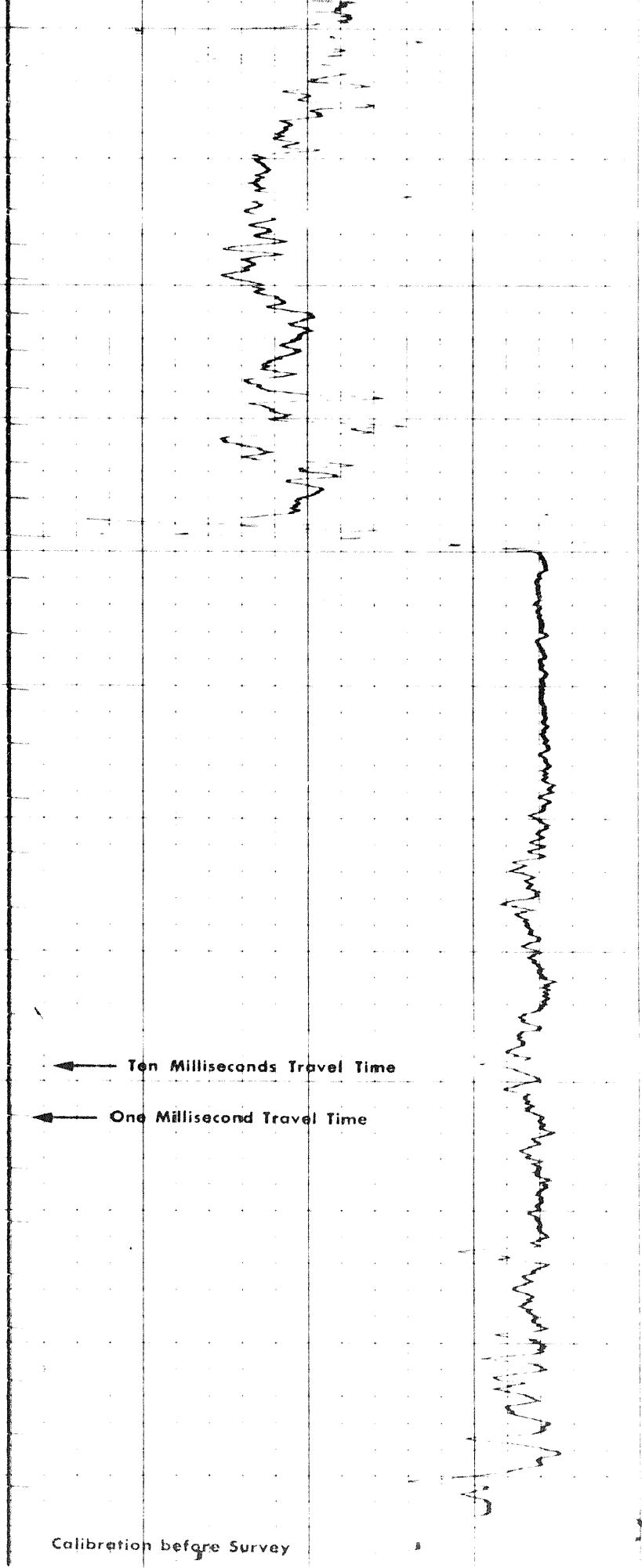


4300 4400 4500 4600 4700 4800 4900





4800
4900
5000
5100
5200
5300
FR



← Ten Milliseconds Travel Time
← One Millisecond Travel Time

Calibration before Survey

6	7	8	9	10	11	12	13	14
CALIPER hole diameter in inches								
Sens 300 T.C. 1								

Calibration before Survey

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

Sens 300 T.C. 1
Zero 0 div. to left

0 120
120 240

120 100 80
80 60 40

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

DETAIL LOG
5" = 100'

RUN 1

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

Sens 300 T.C. 2
Zero 0 div. to left

0 120
120 240

140 90 40
240 180 140

CALIPER

7 8 9 10 11 12 13 14 15

Hole Diameter in Inches

Calibration after Survey

0500

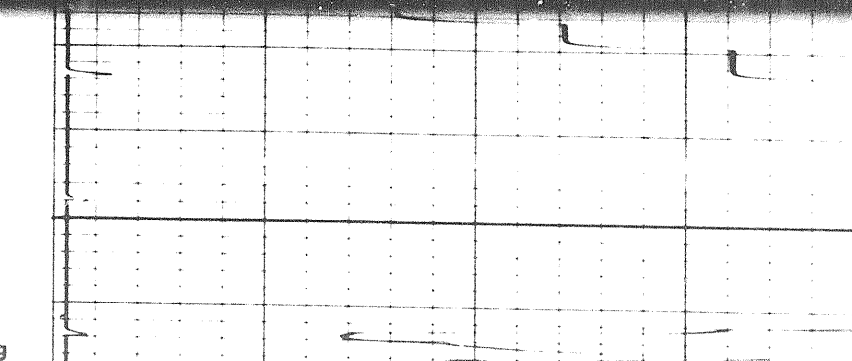
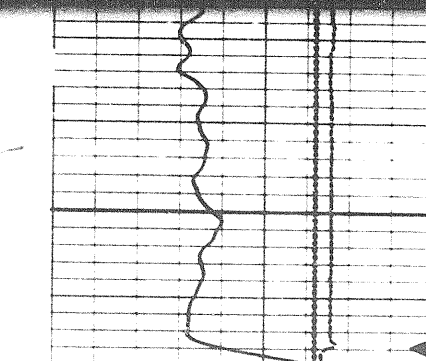
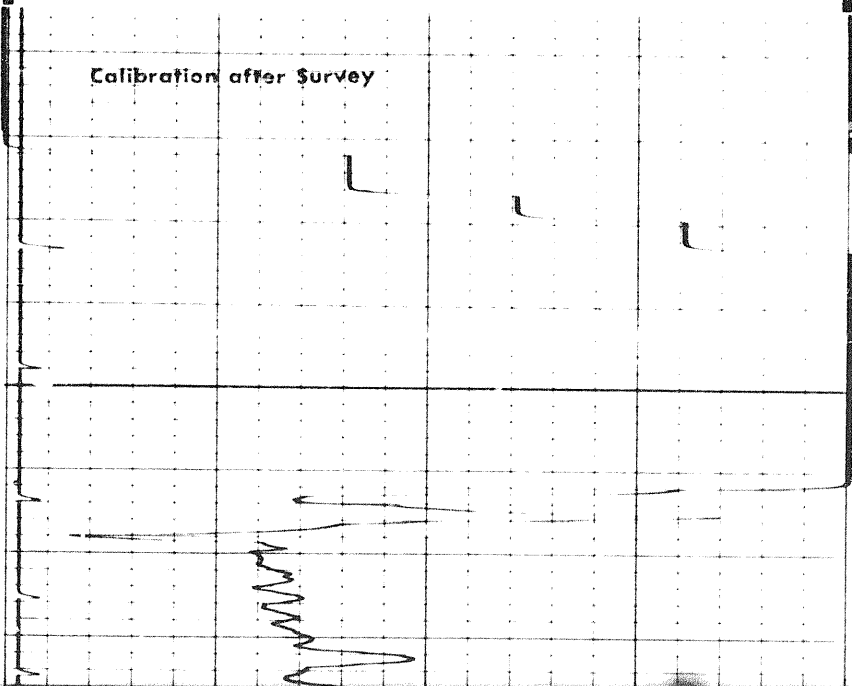
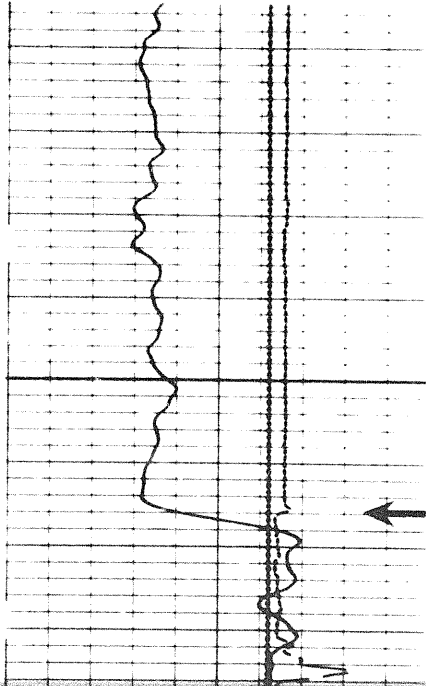
Casing

0500

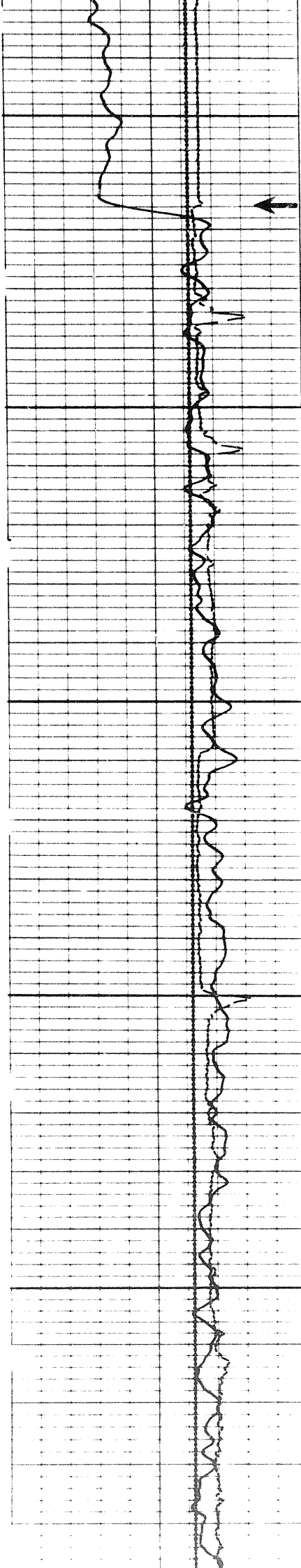
Casing

Speed in FPM

Speed in FPM



703

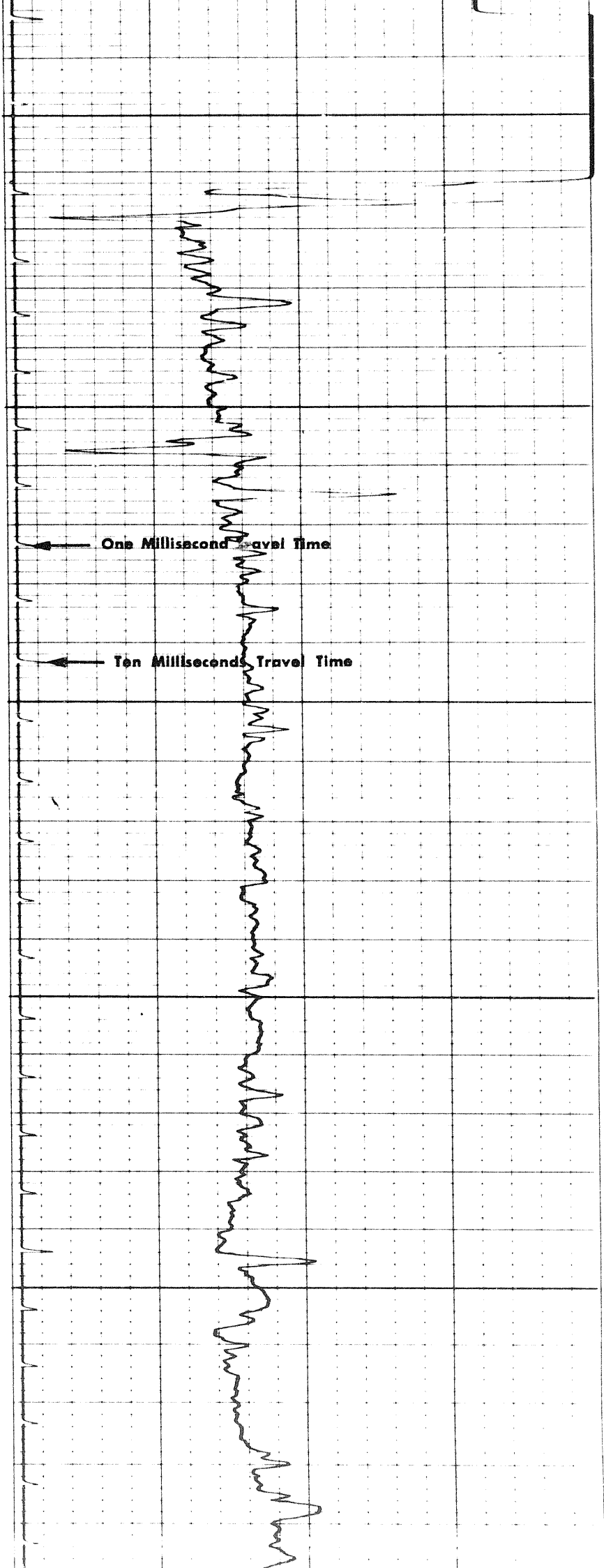


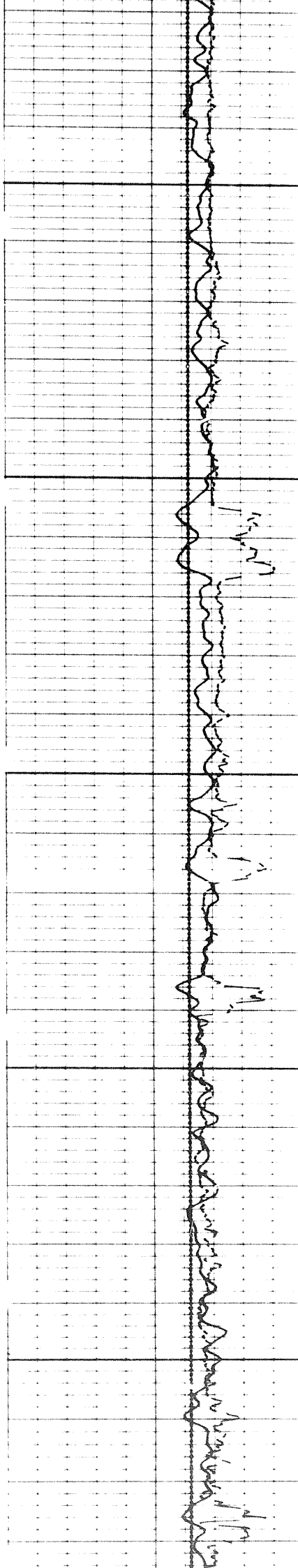
0500

Casing

0600

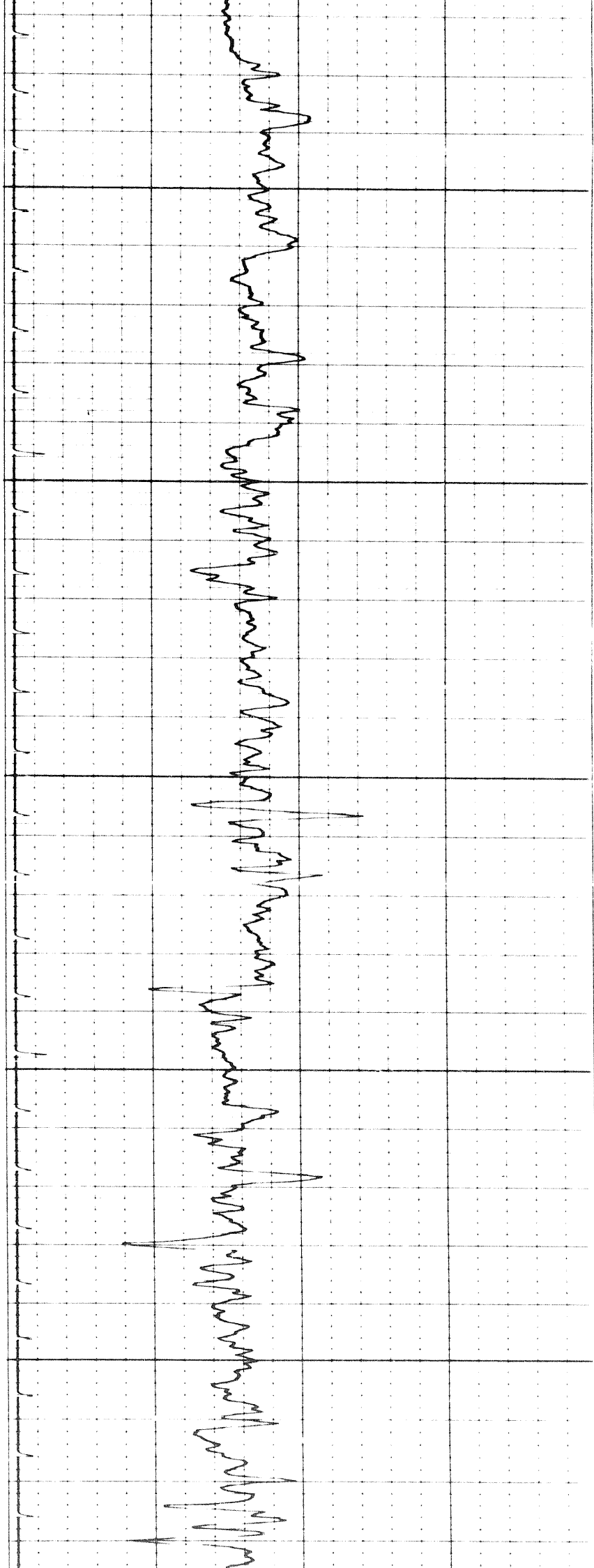
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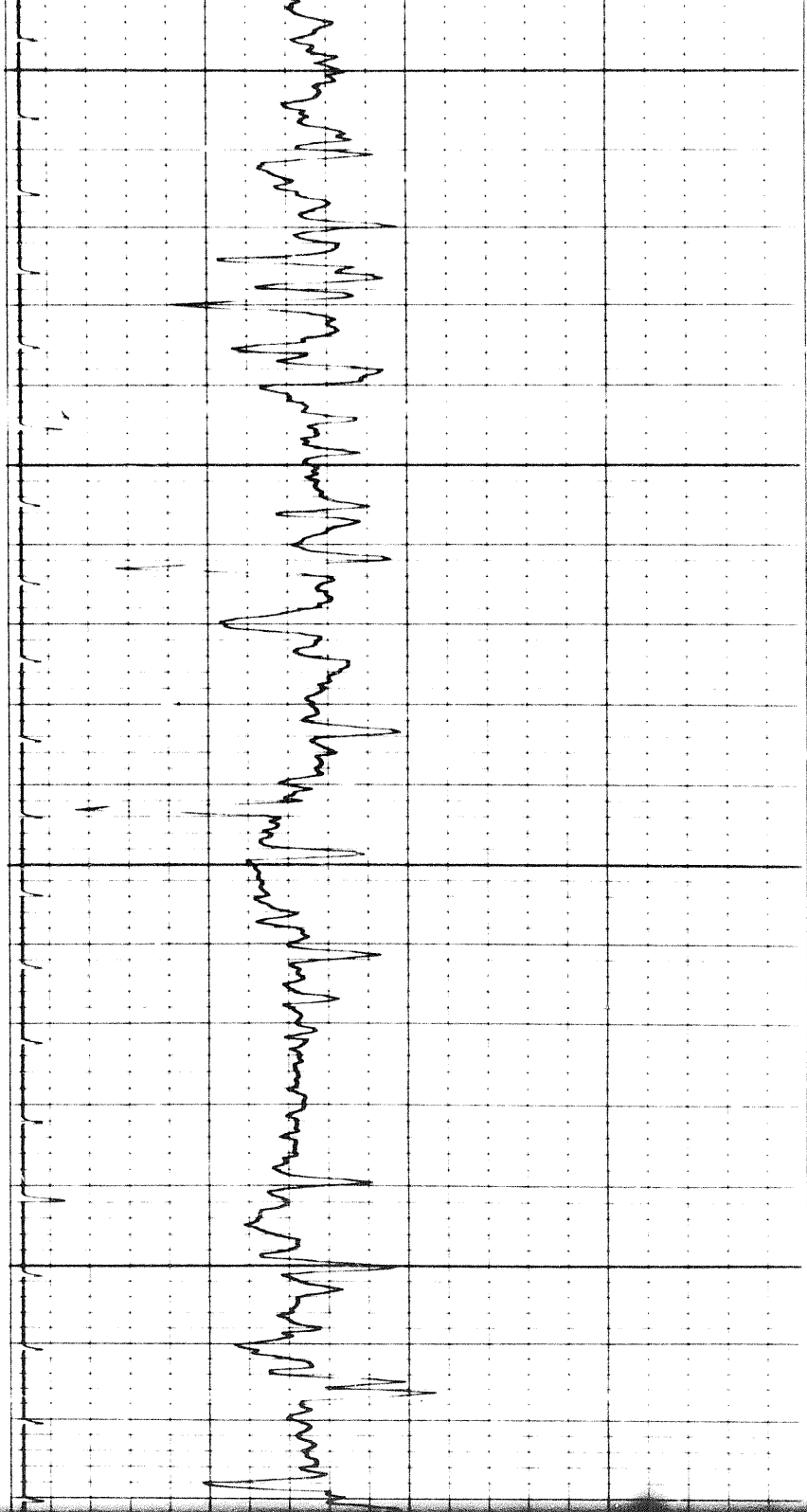




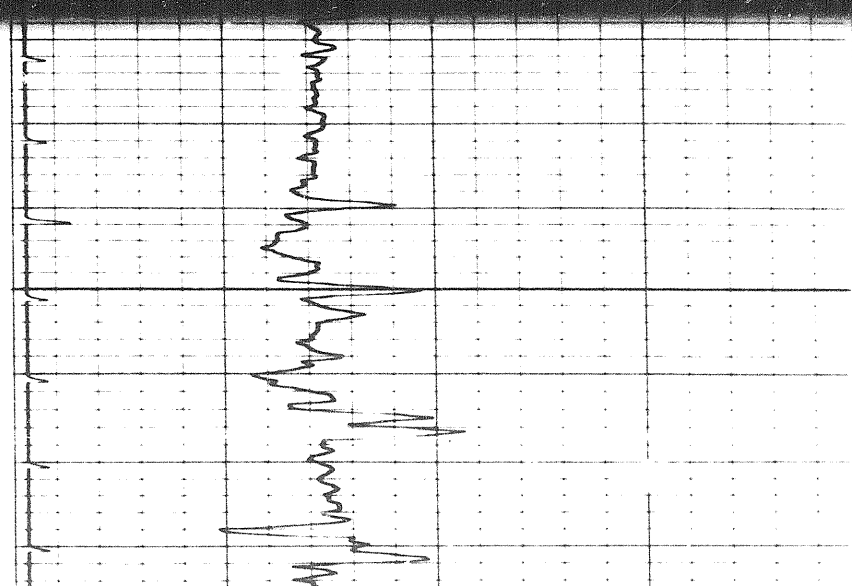
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0060

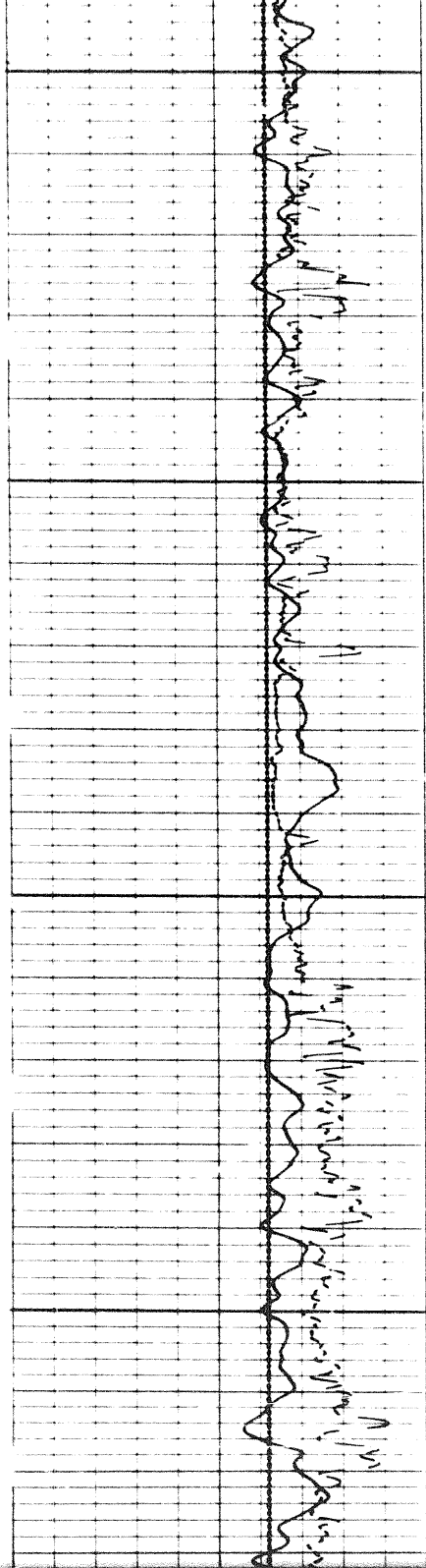




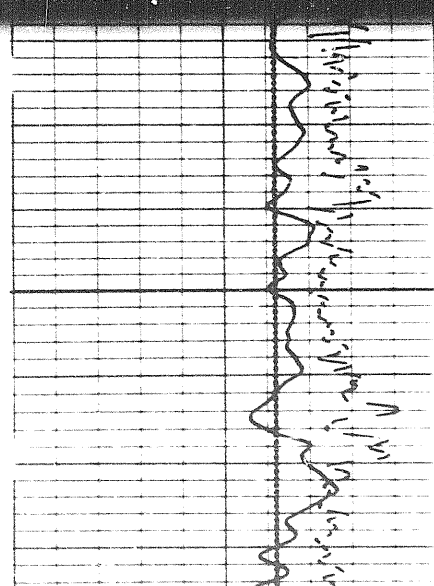
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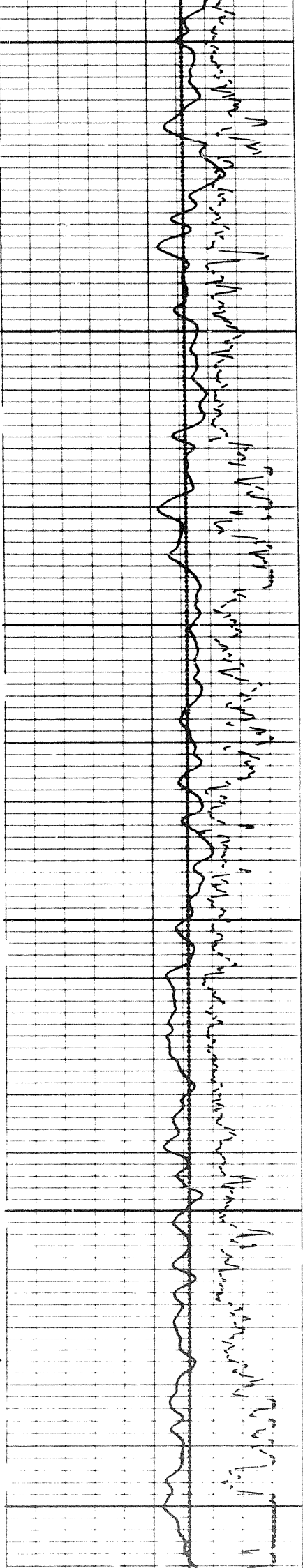
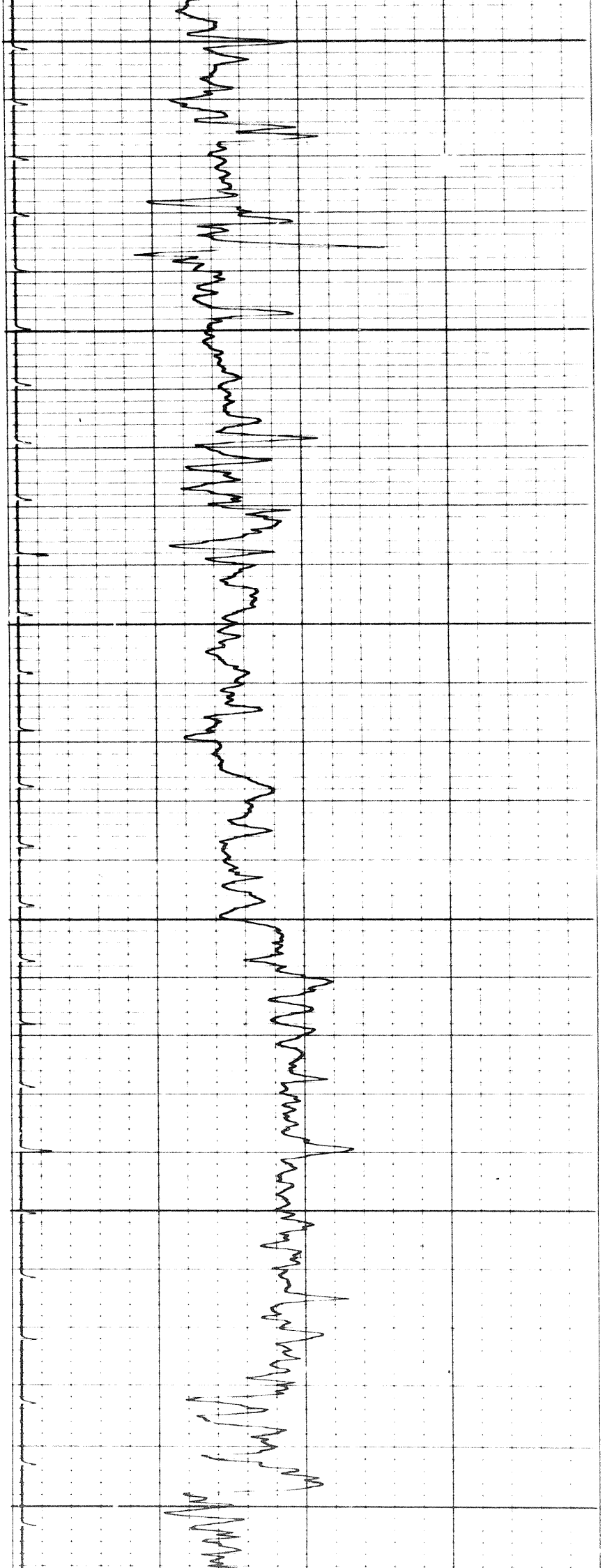


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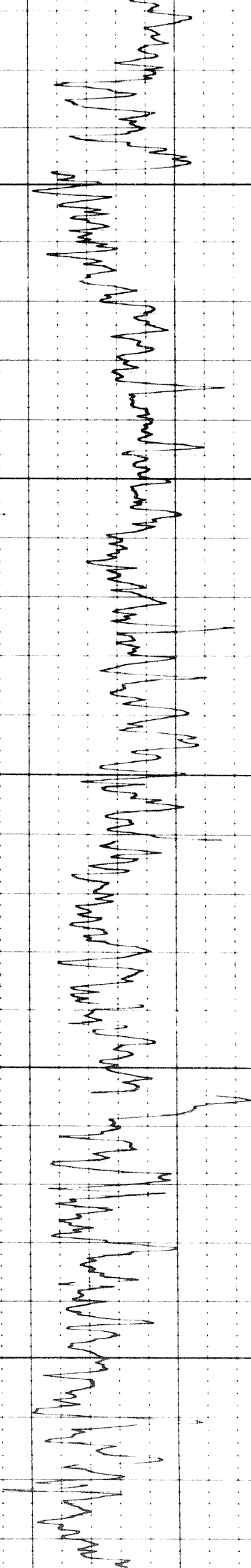


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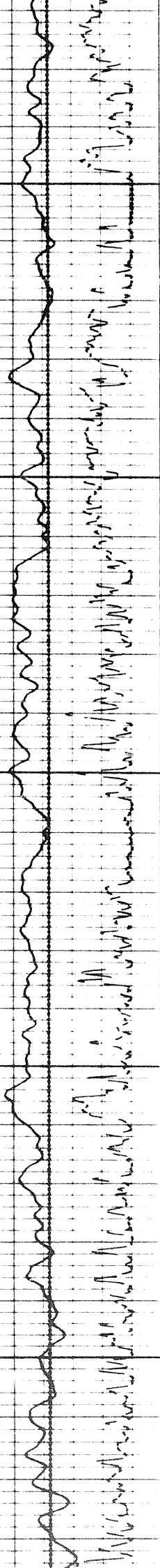


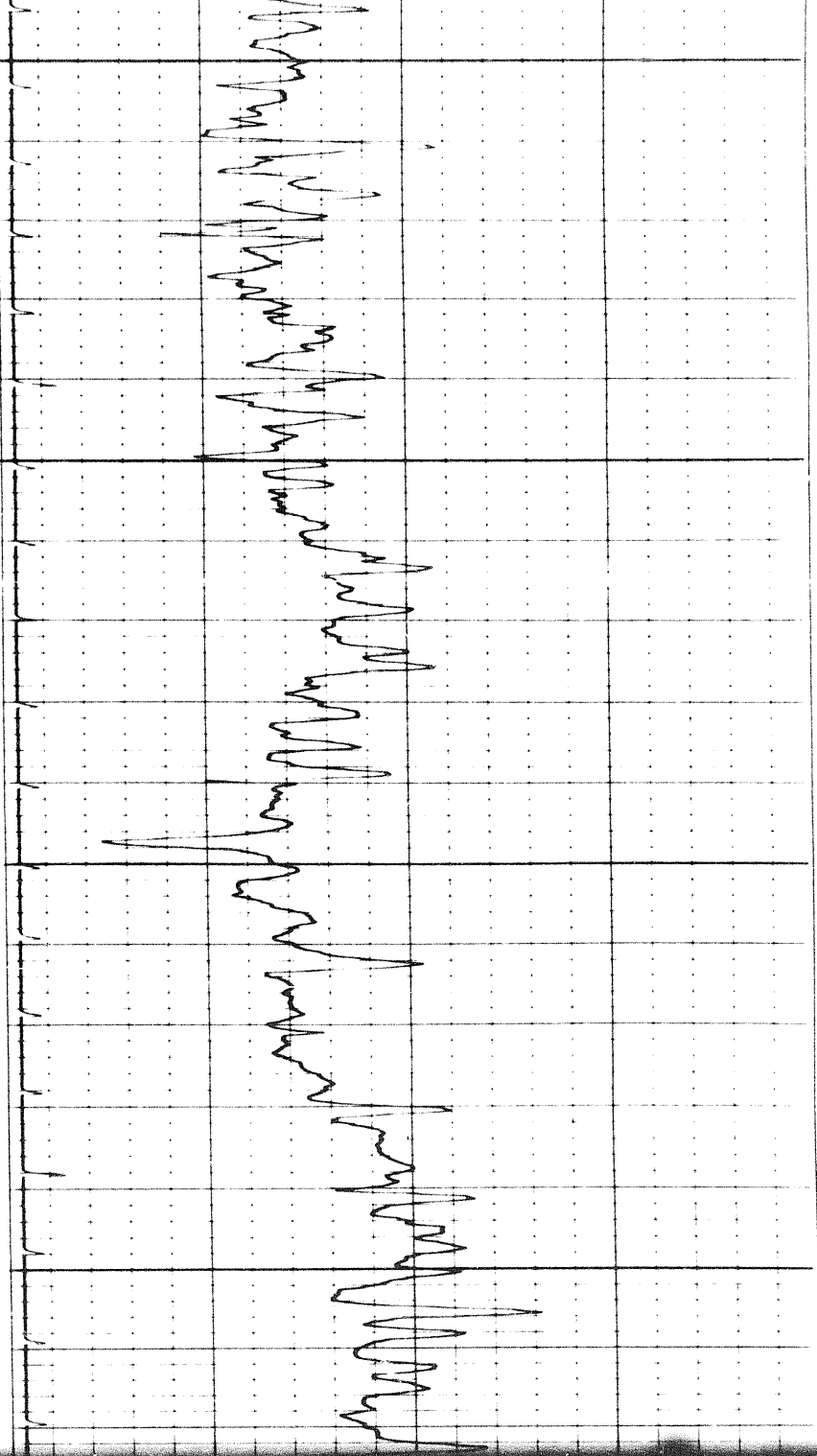
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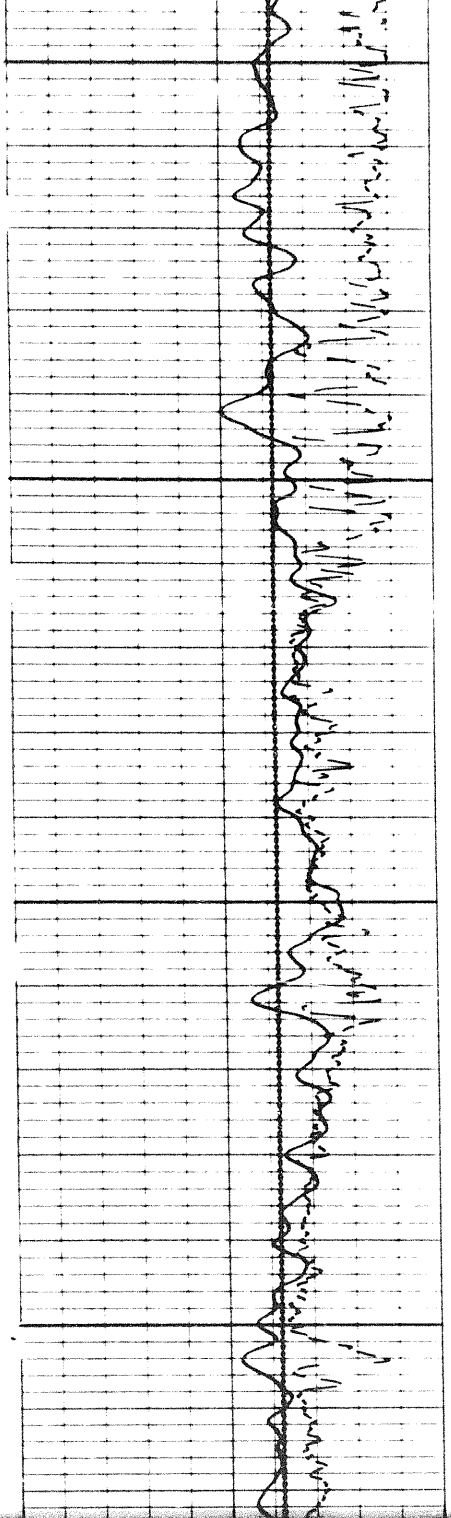
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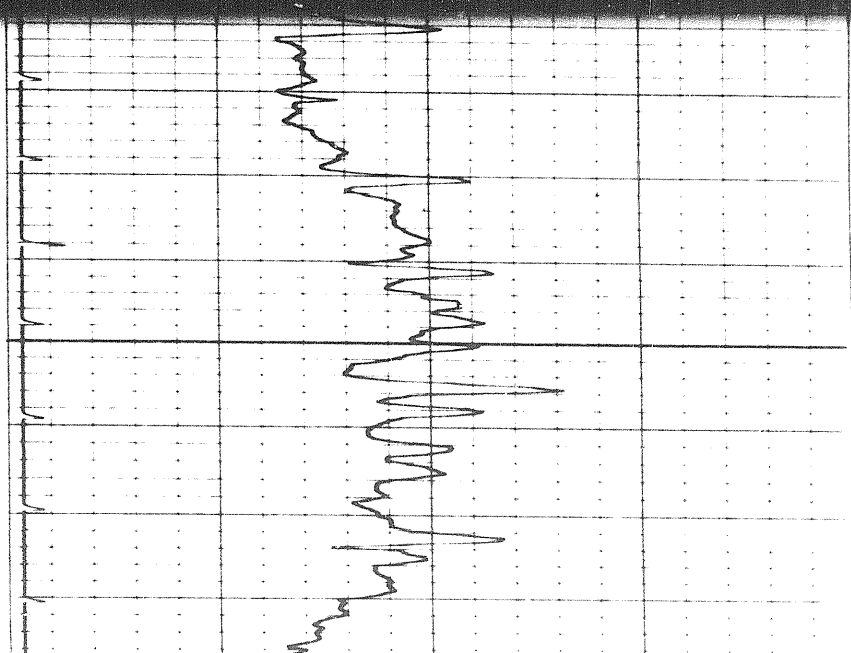




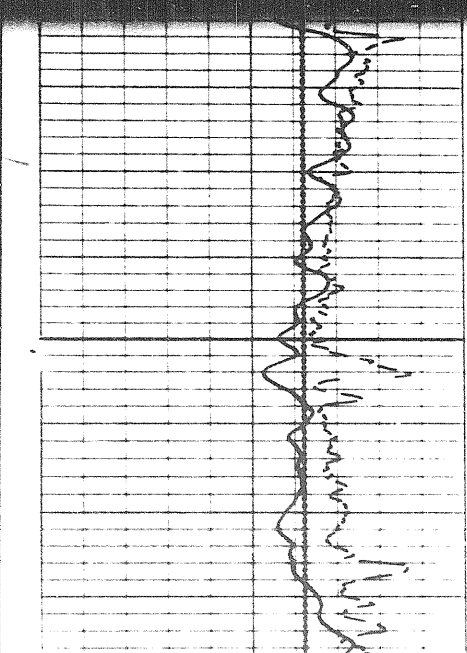
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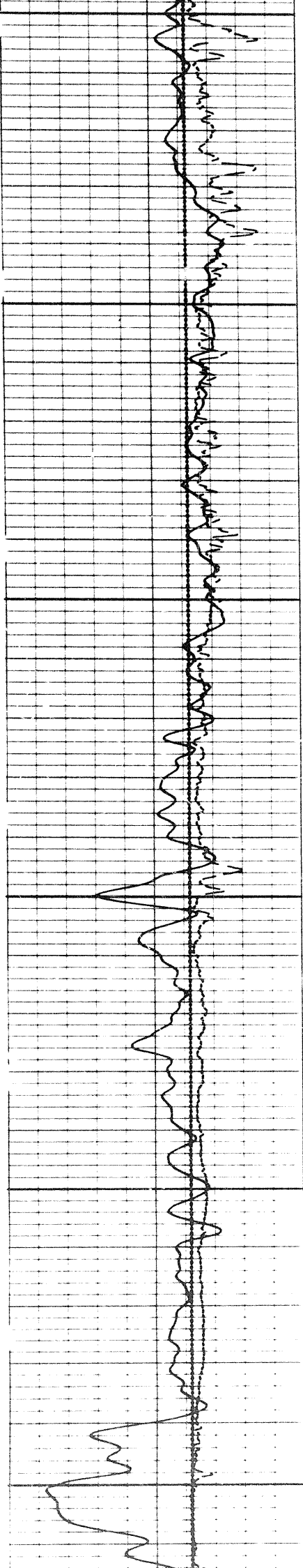
1700



1700



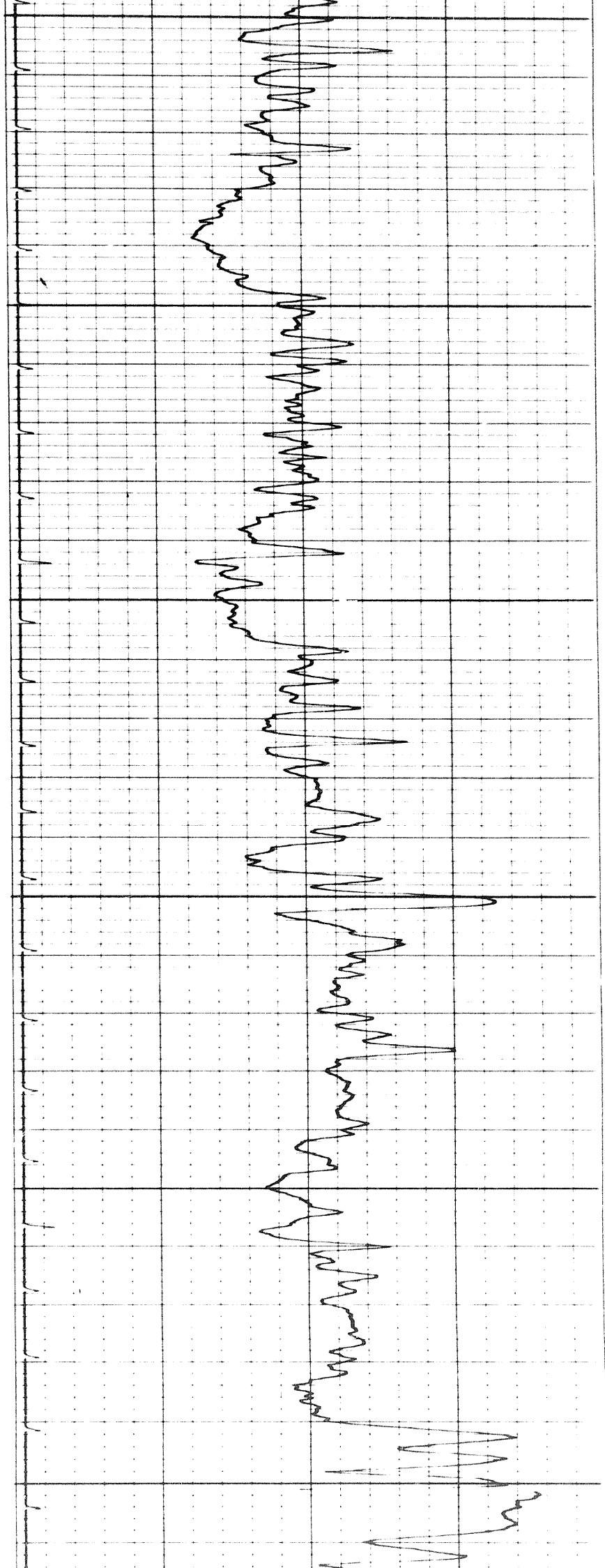
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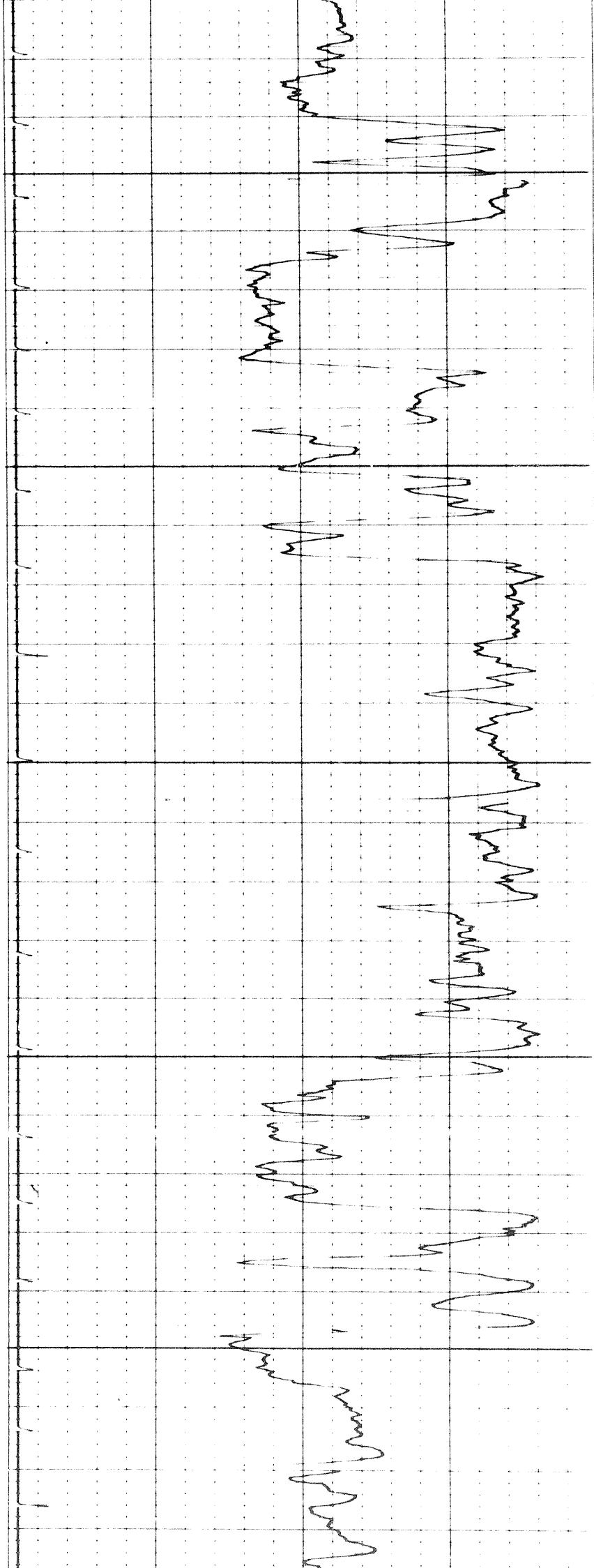


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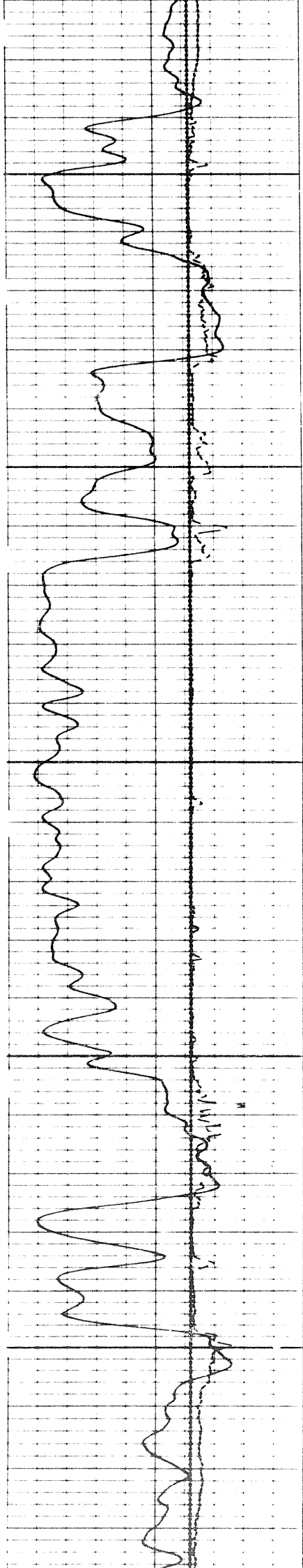
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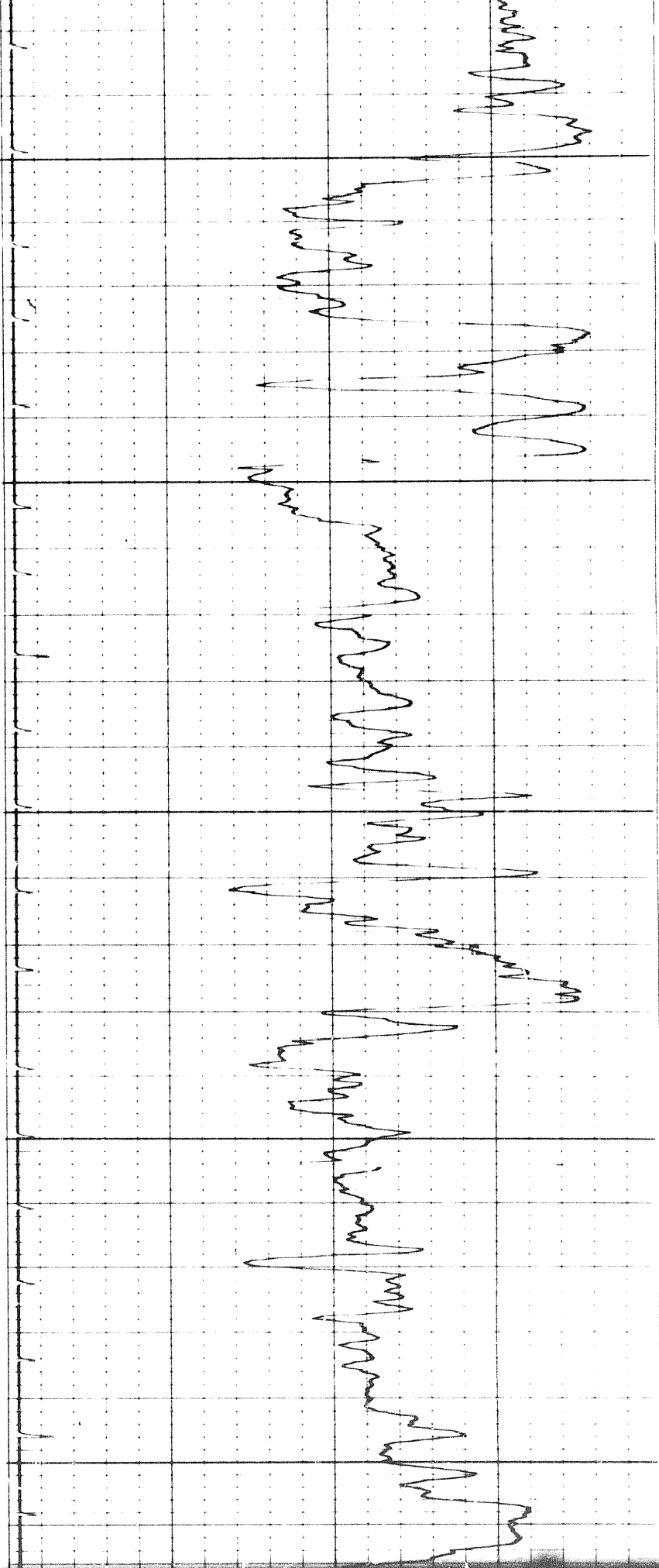




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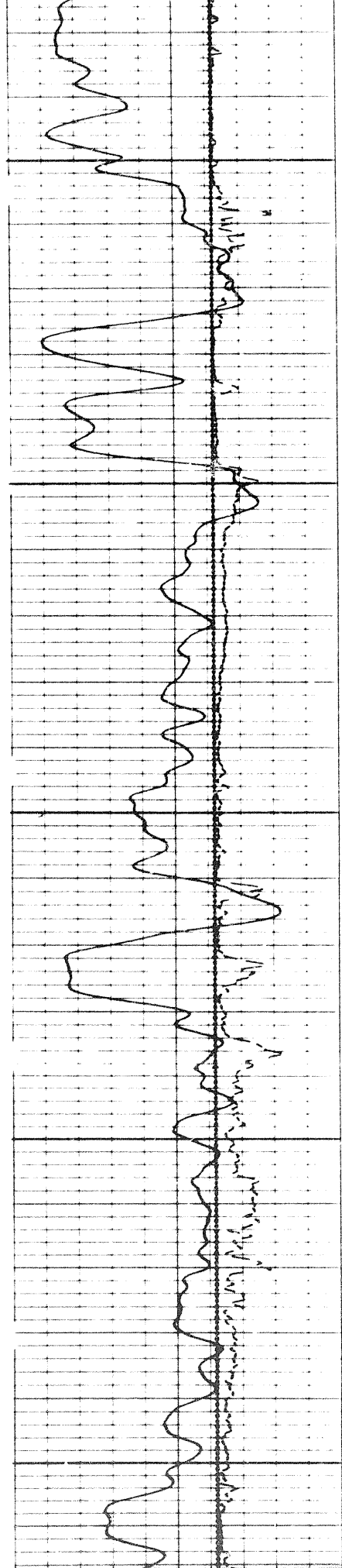


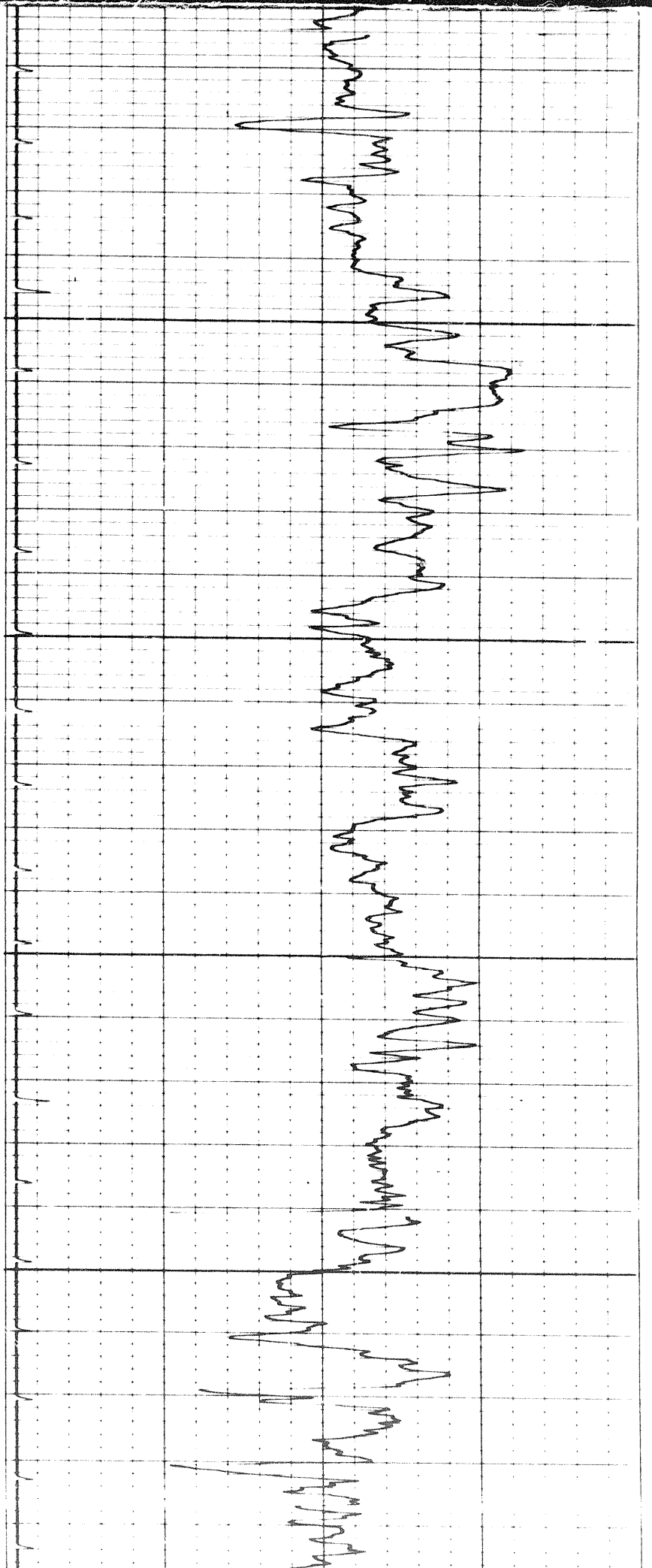


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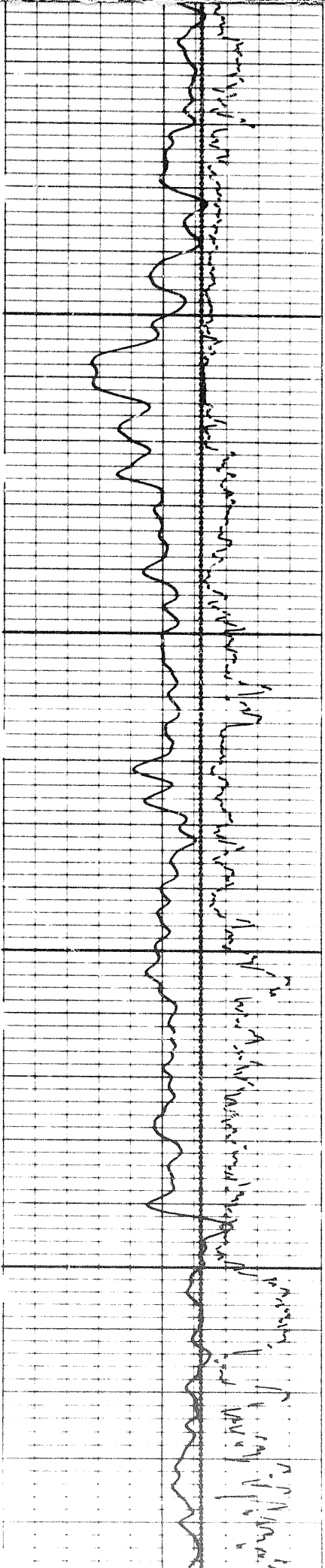
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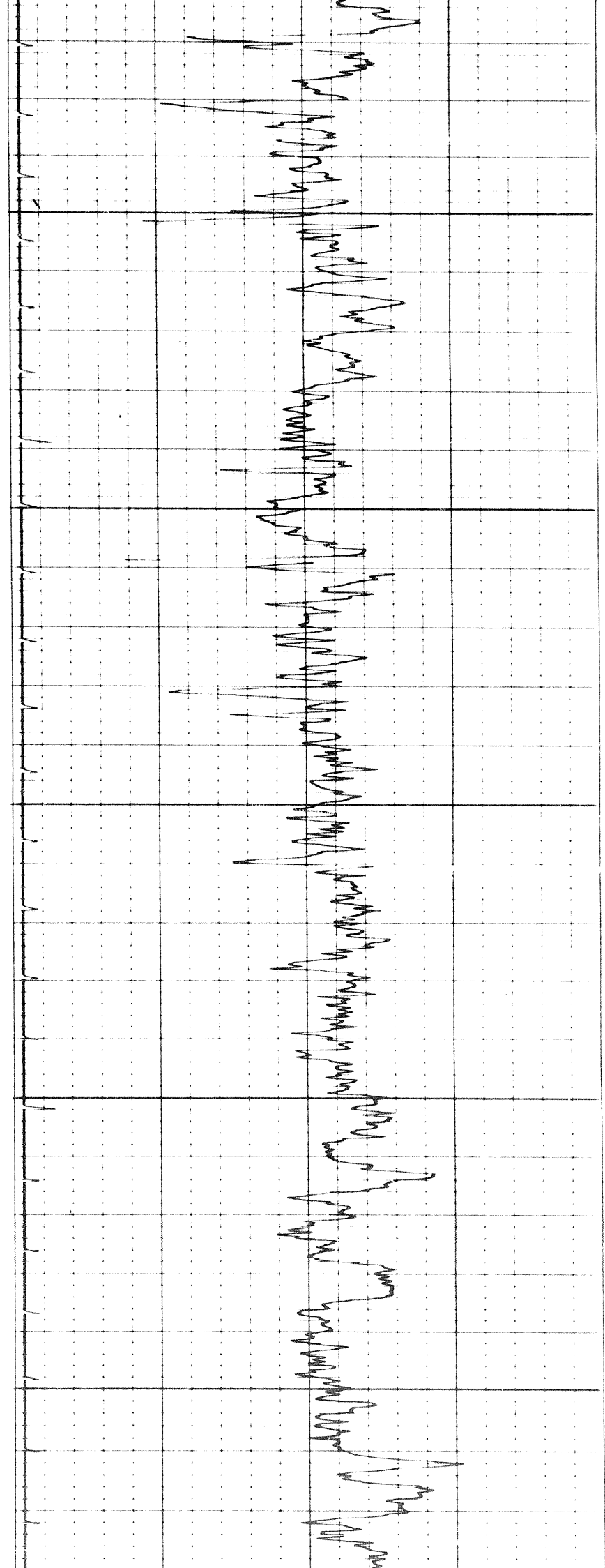


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2400



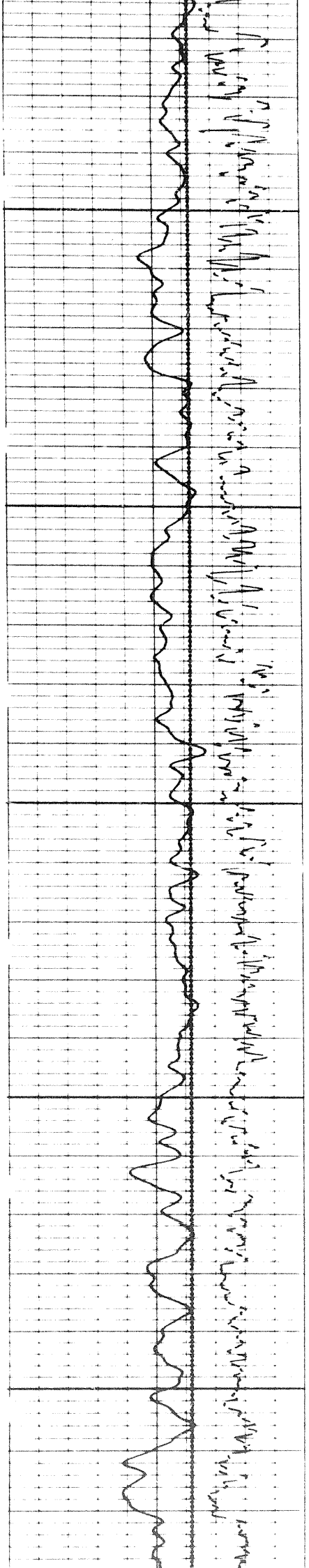
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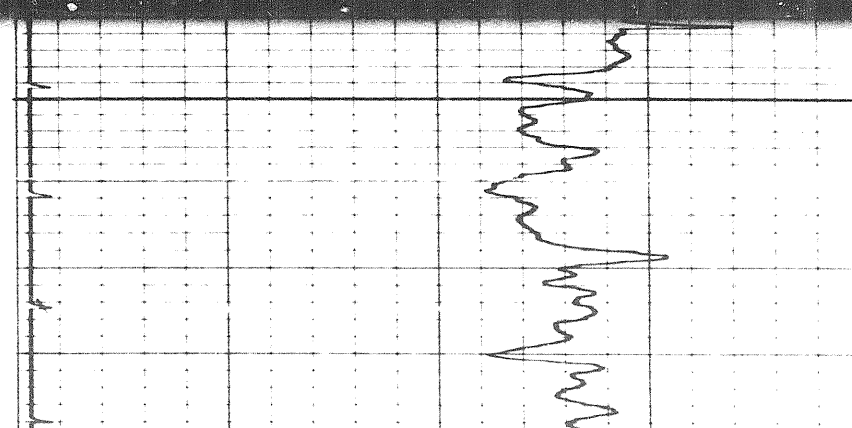
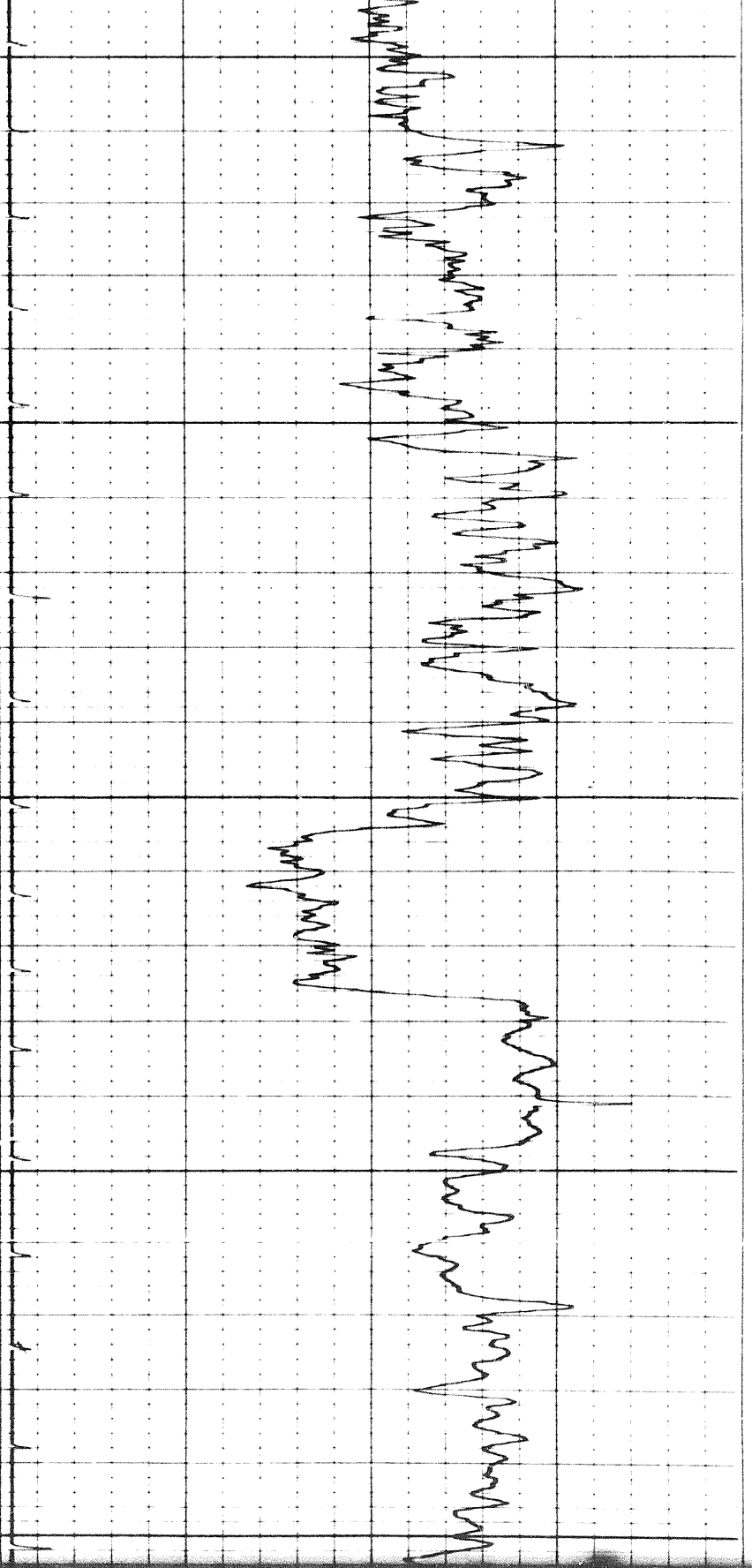


2500

2600

2700

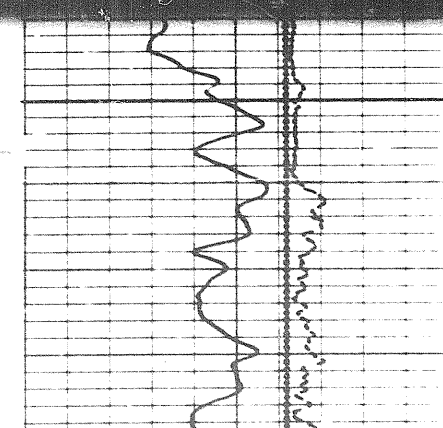
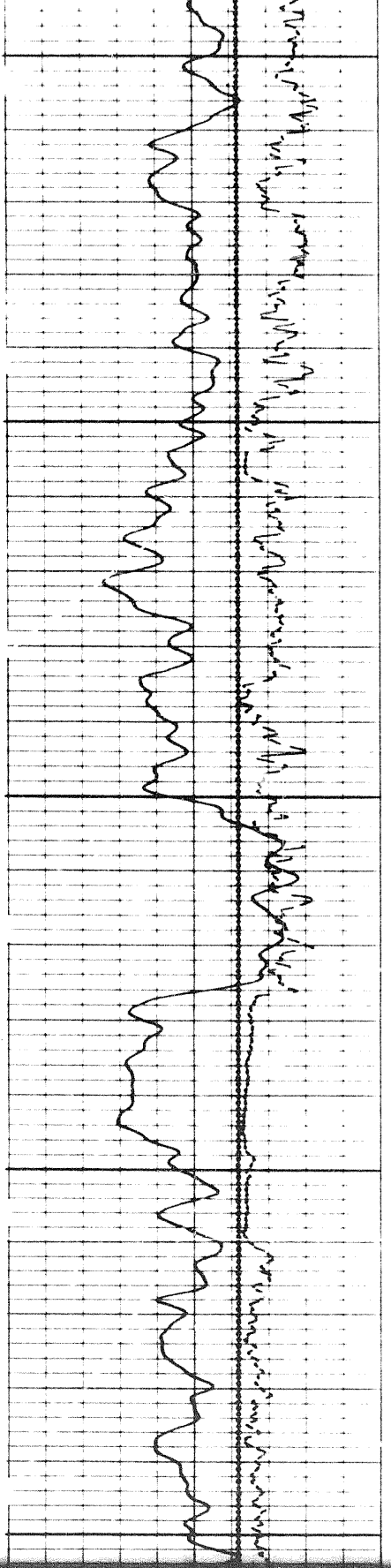




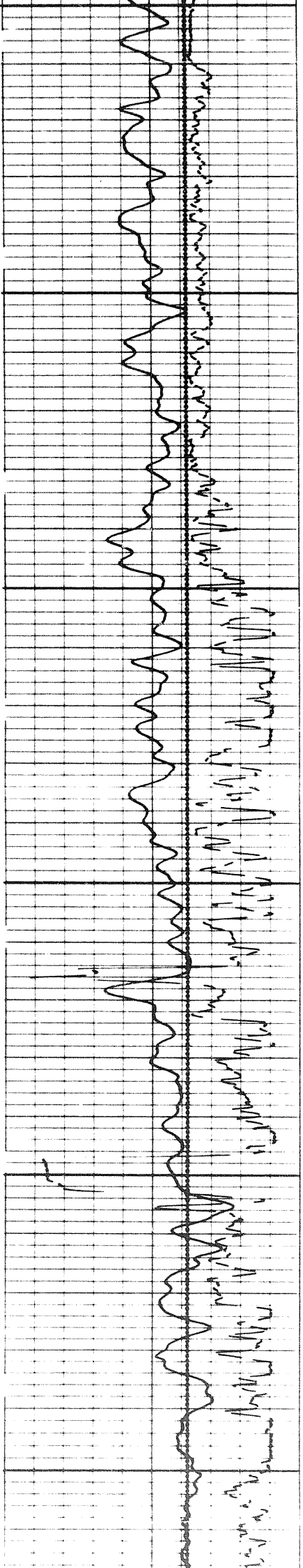
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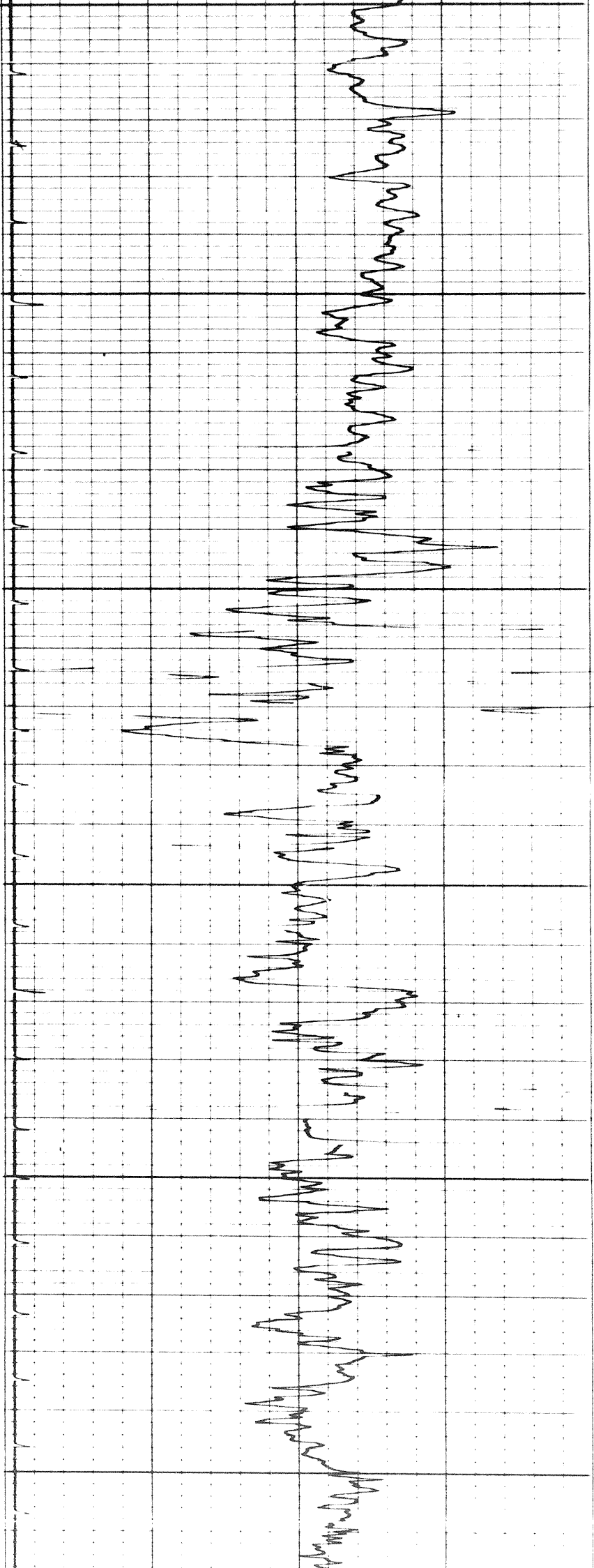
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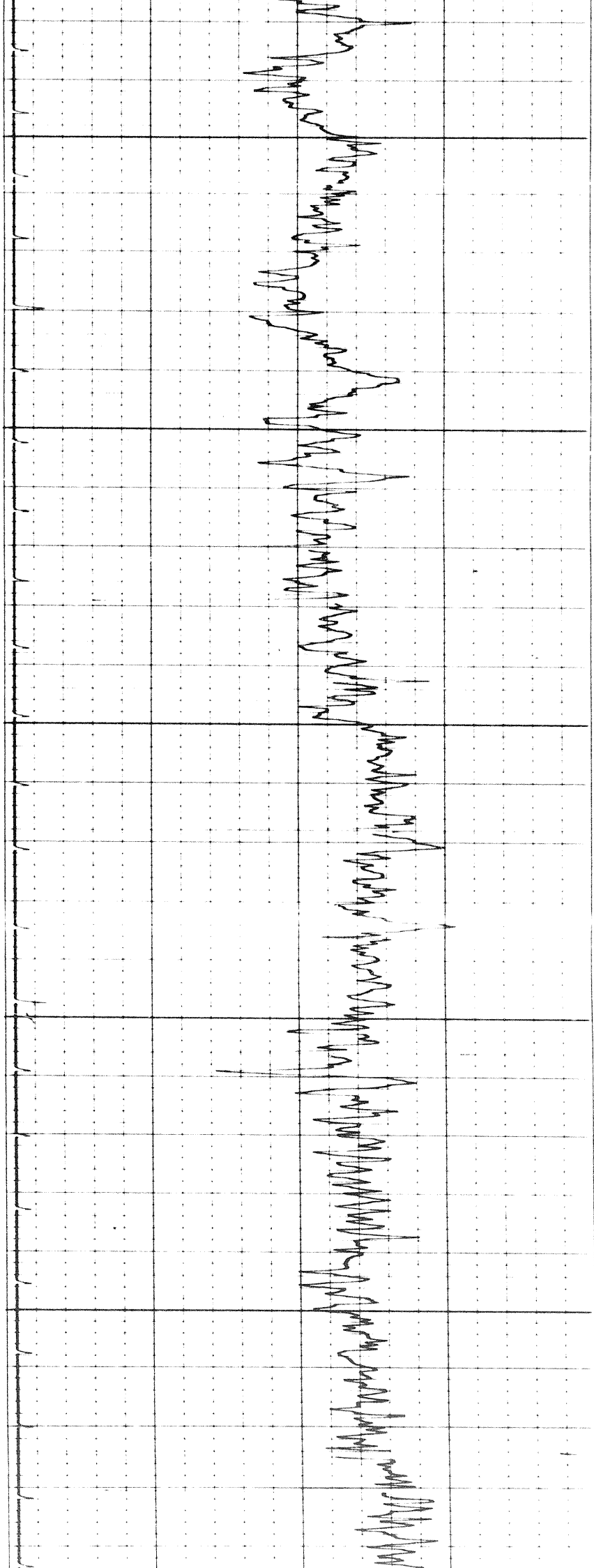


2900

3000

3100

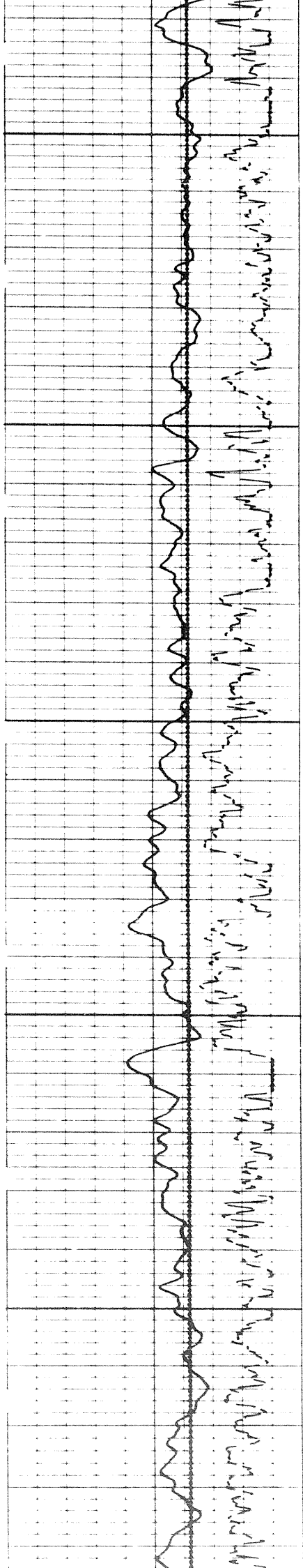


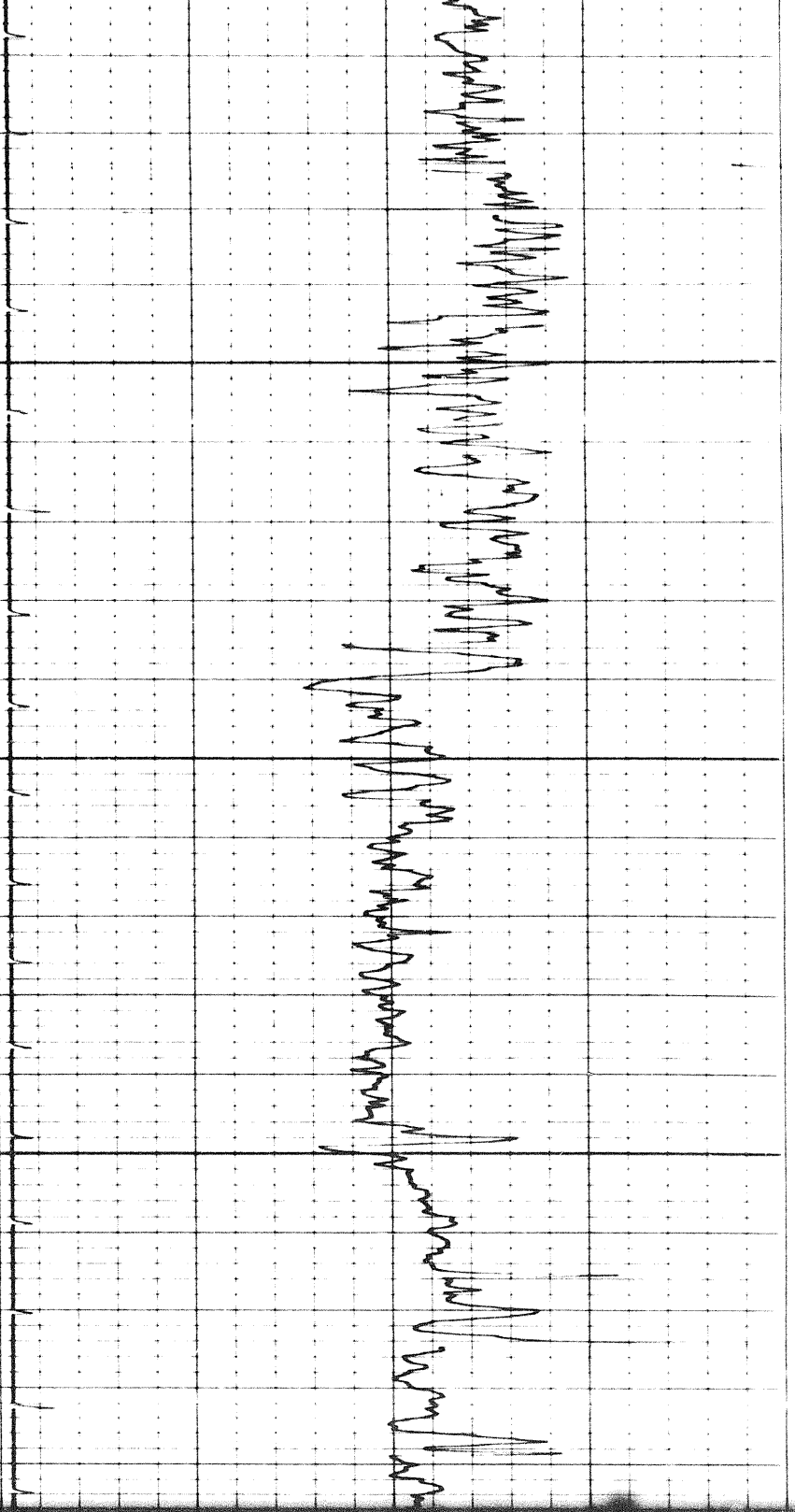


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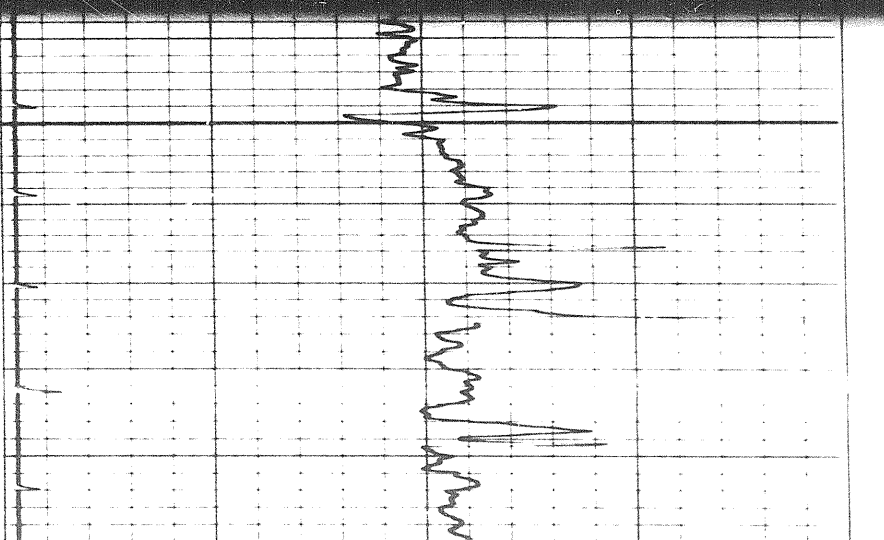
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3300

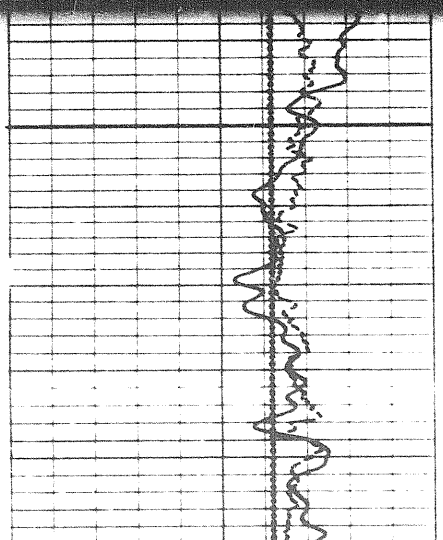
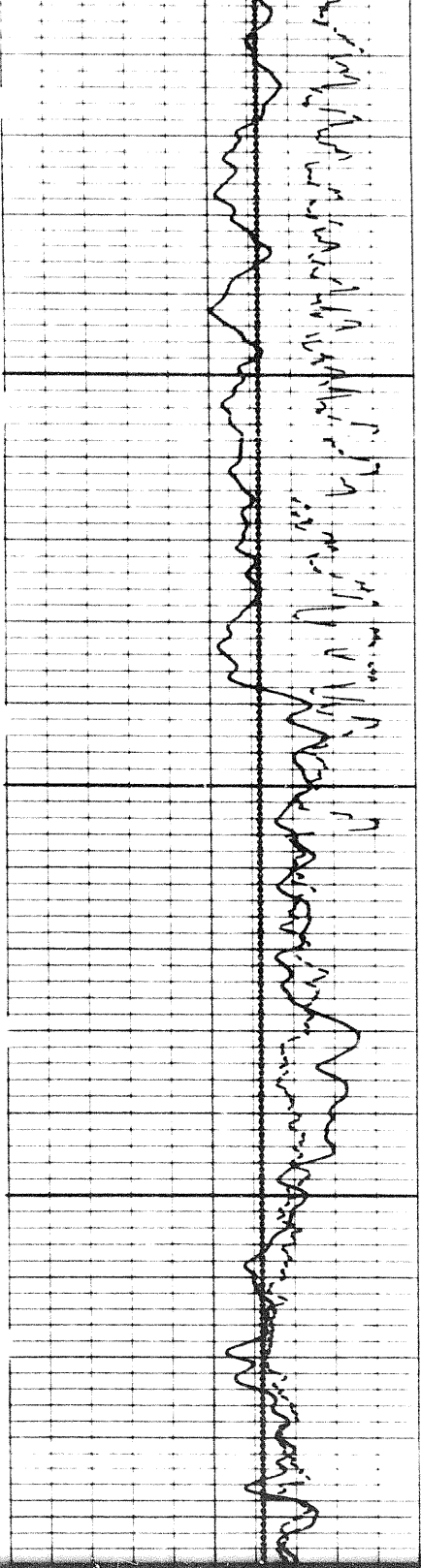




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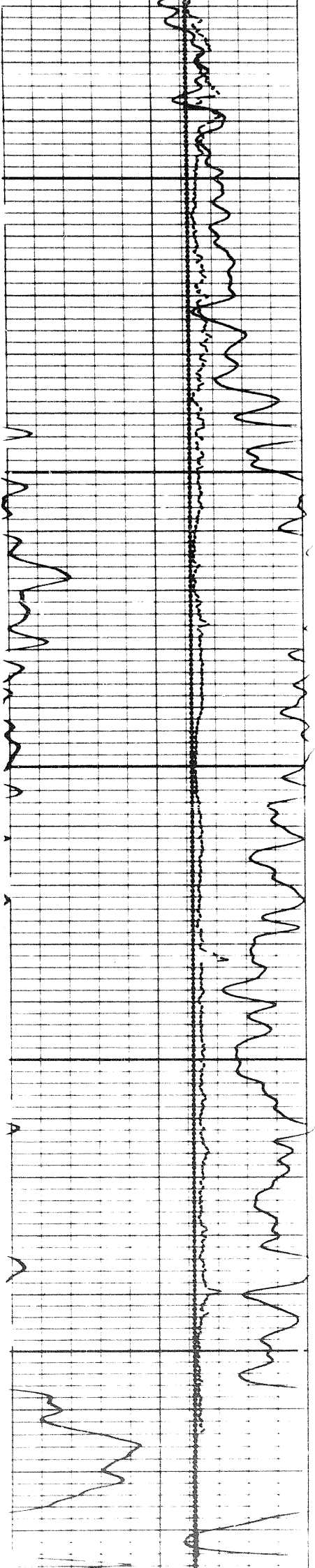


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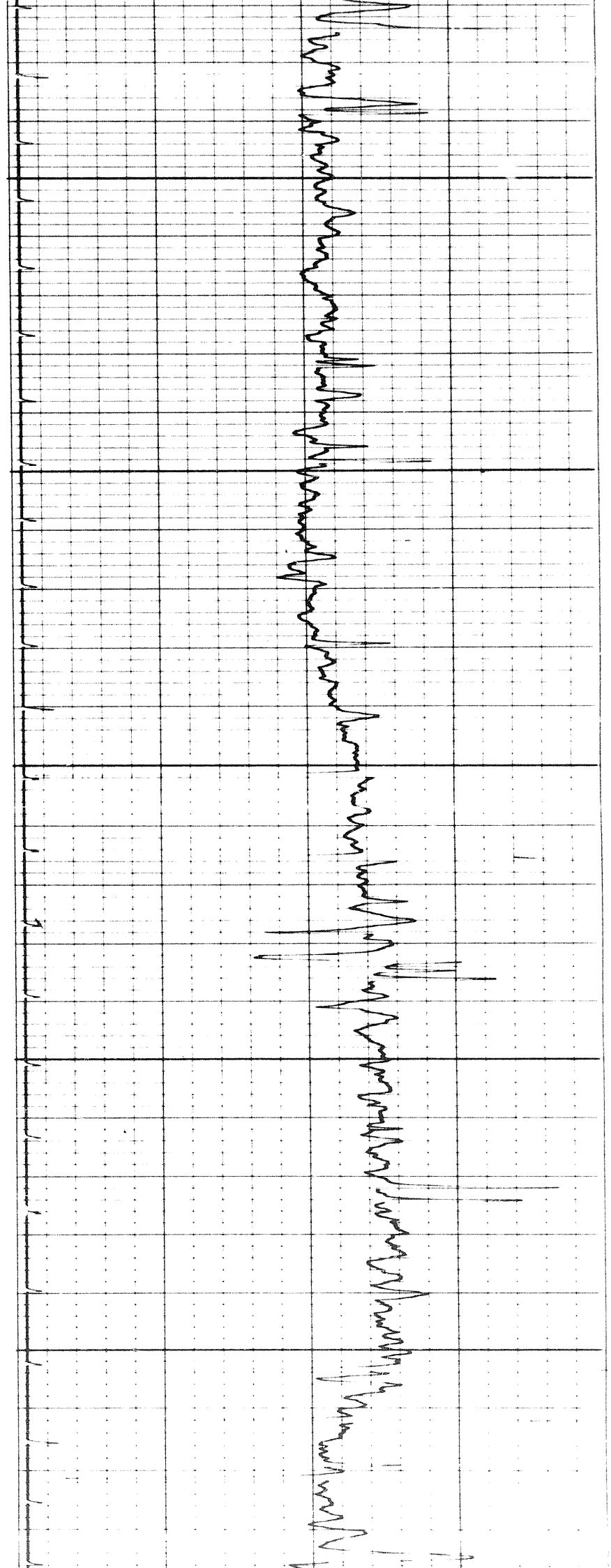
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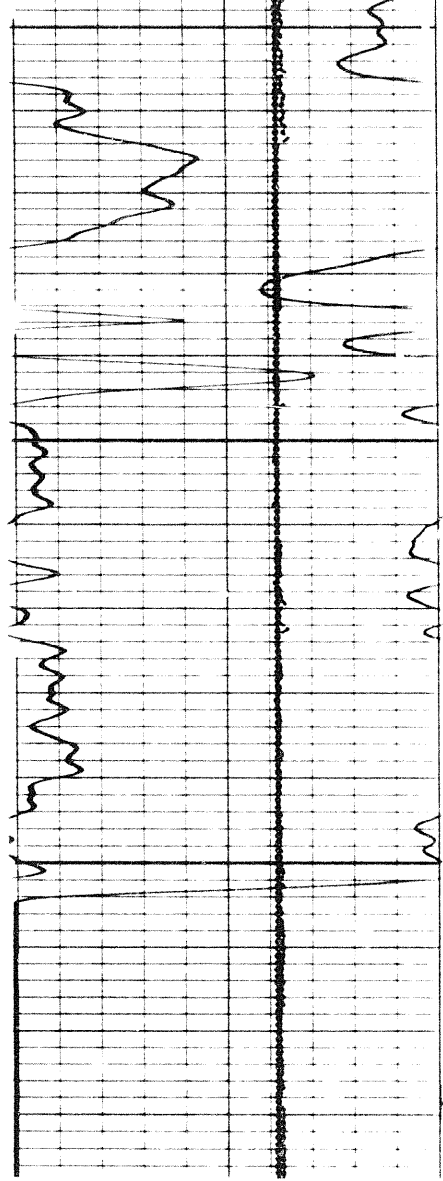


3500

3600

3700

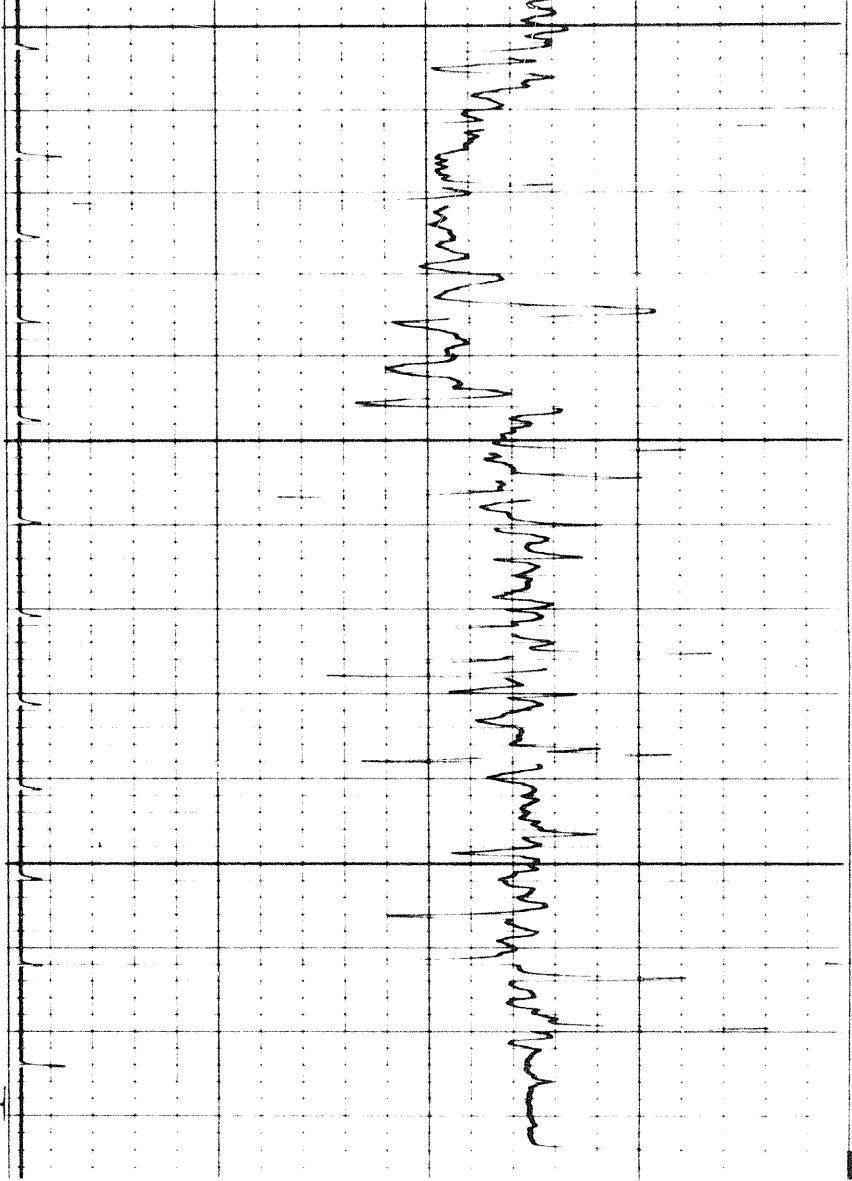




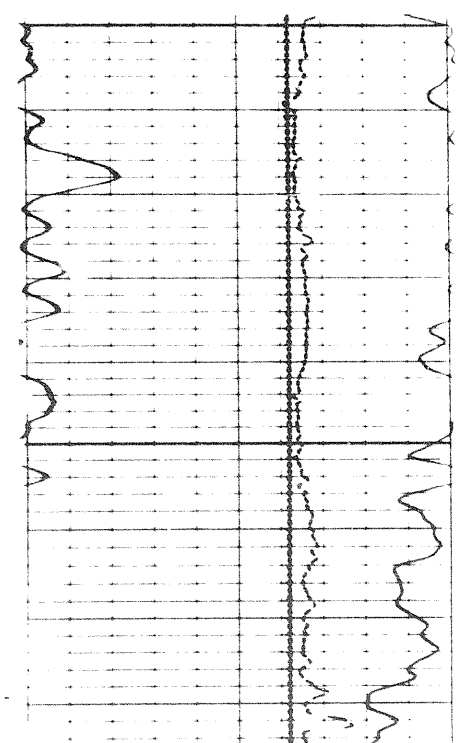
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3800

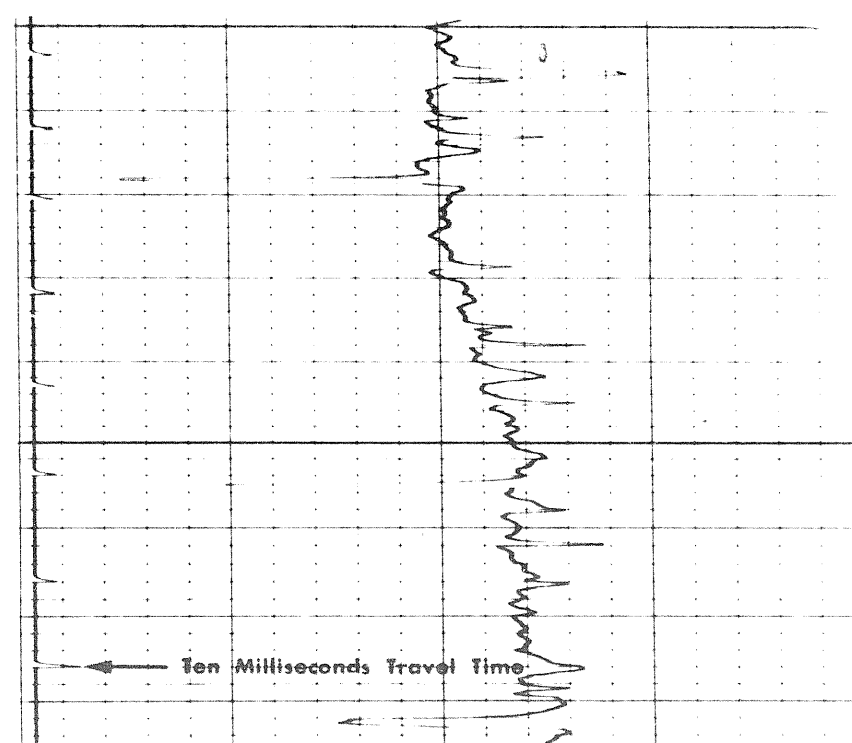
FR



REPEAT SECTION

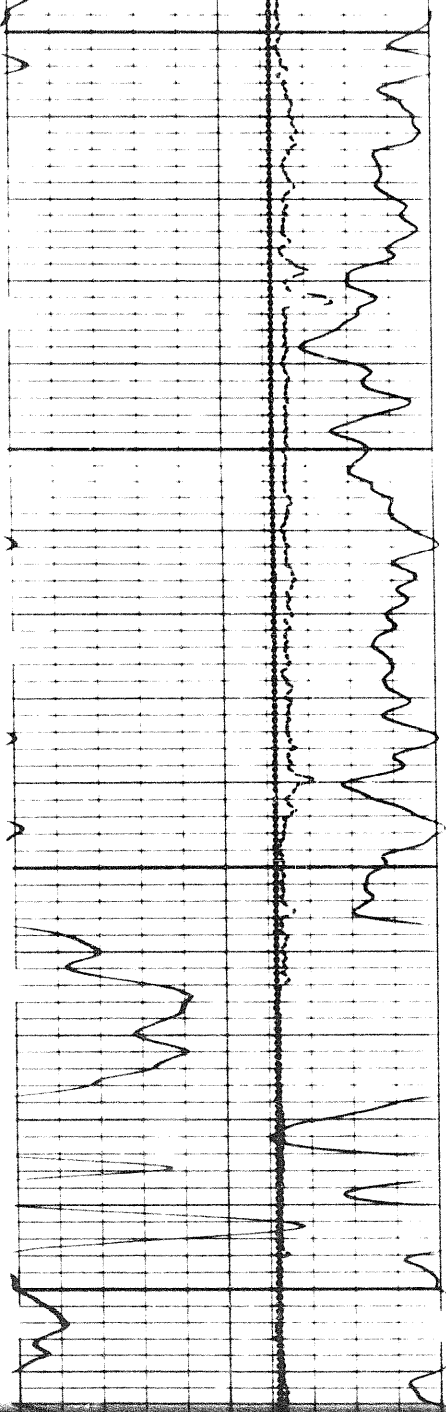


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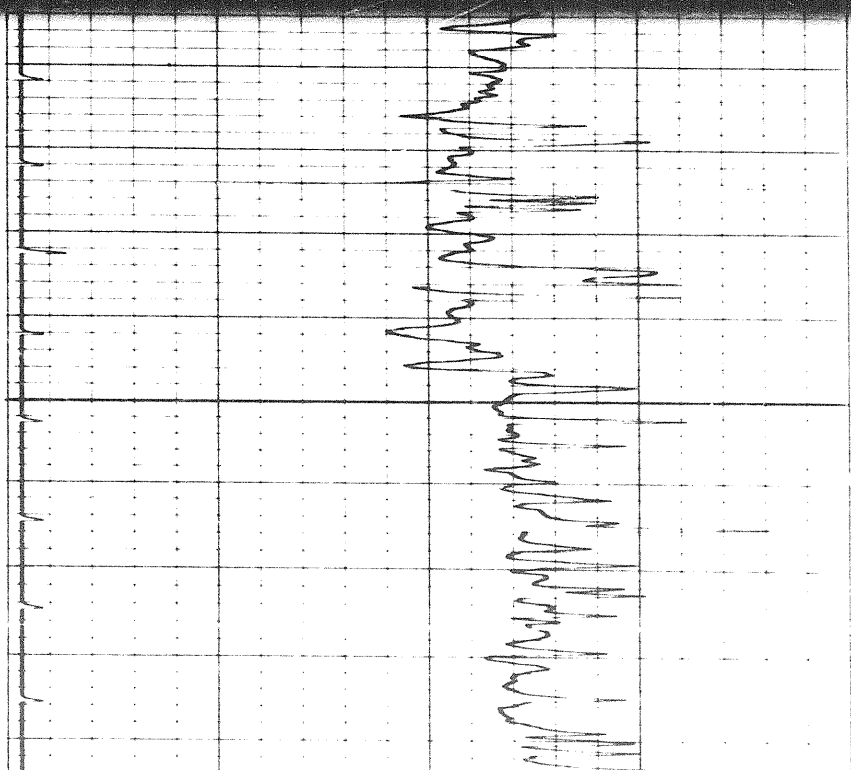
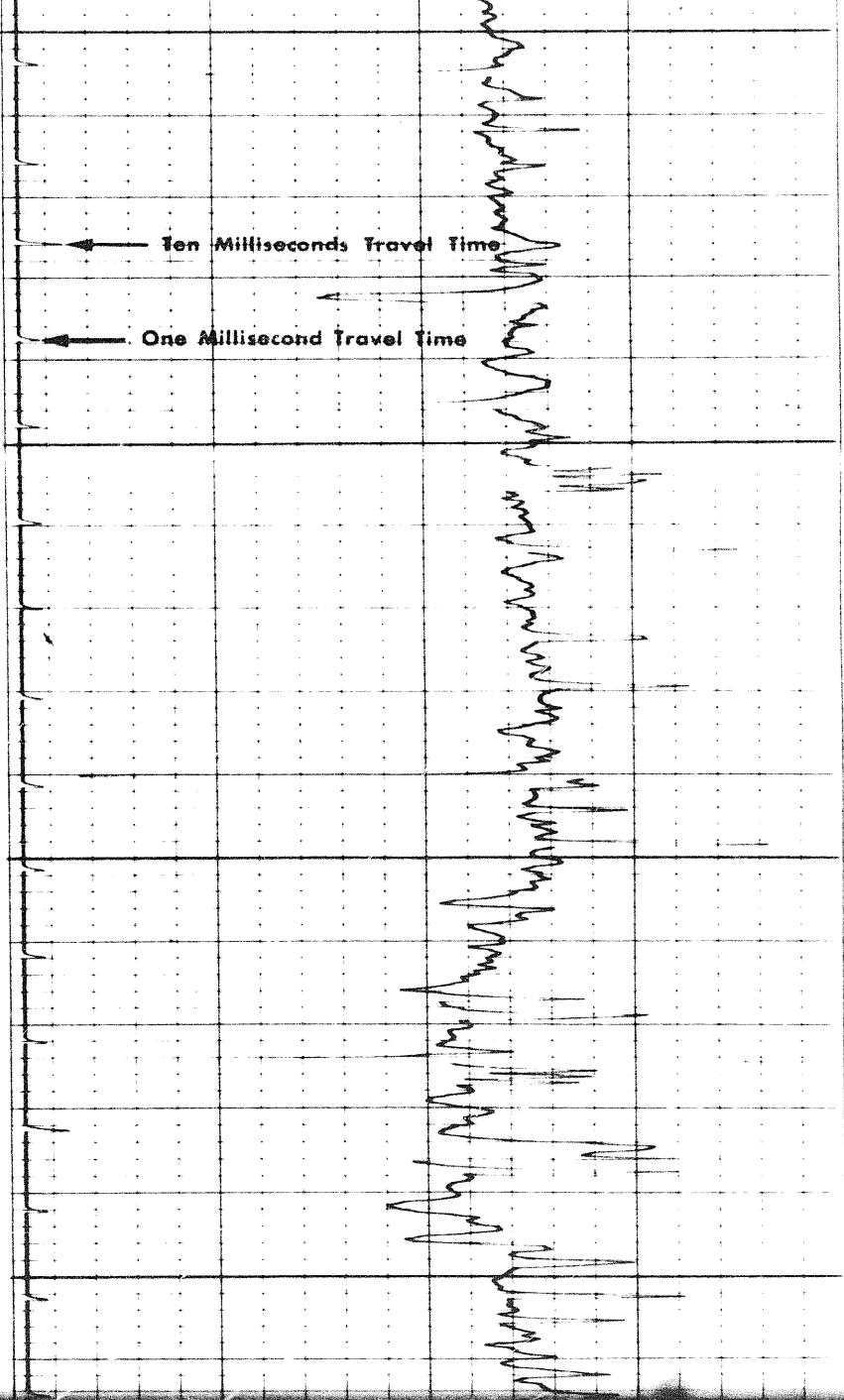
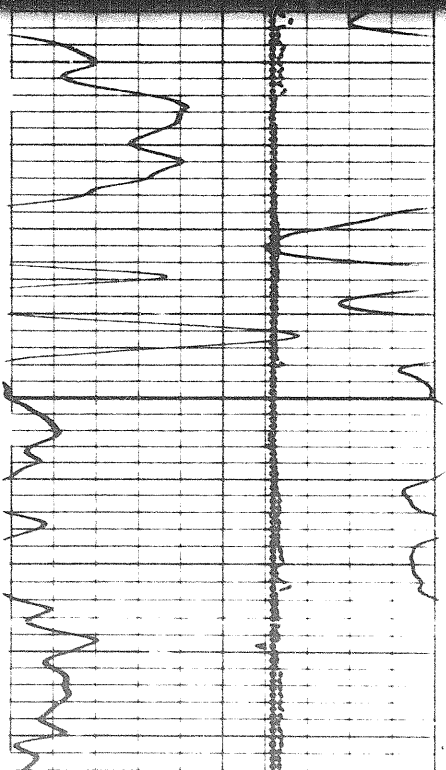


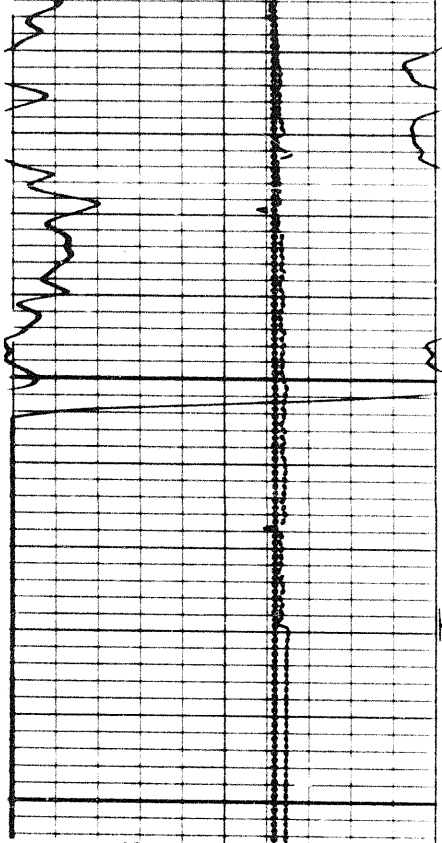
← Ten Milliseconds Travel Time

3600



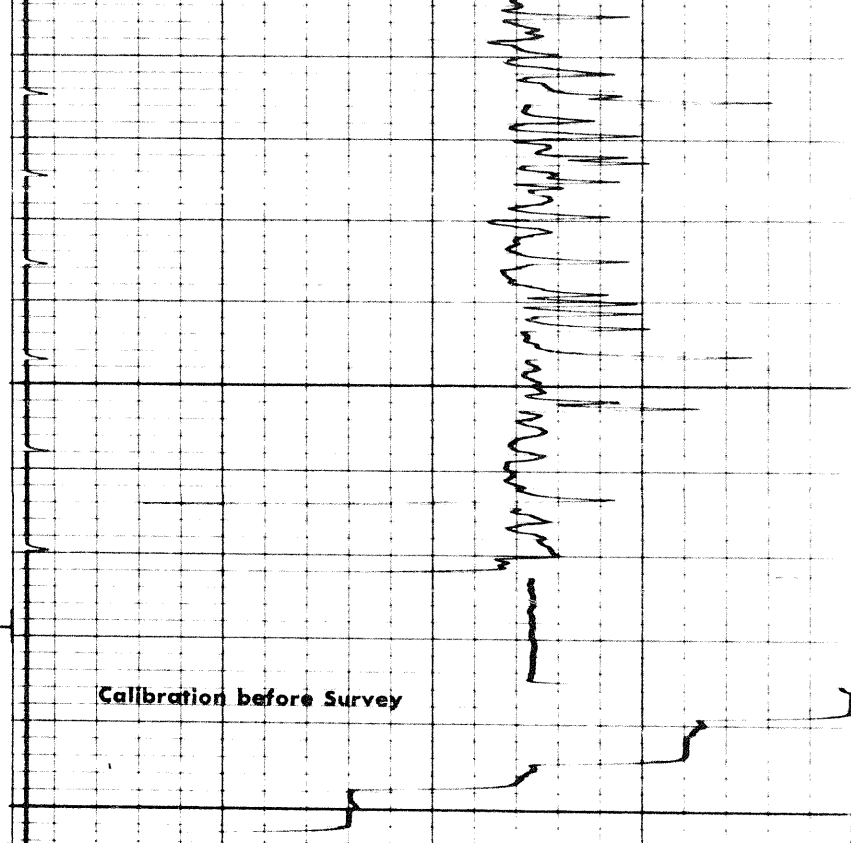
3700





3800

FR



Calibration before Survey

CALIPER

7 8 9 10 11 12 13 14 15

Hole Diameter in Inches

Sens. 300 T.C. 2

Zero 0 div. to left

120 240

Speed in FPM

240	190	140
140	90	40

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

DETAIL LOG
5" = 100' RUN 2

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

Sens. 300 T.C. 1

Zero 0 div. to left

120 240

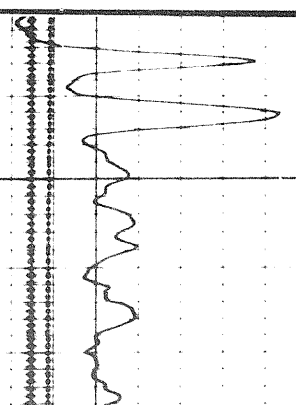
Speed in FPM

80	60	40
120	100	80

CALIPER

hole diameter in inches

6 7 8 9 10 11 12 13 14



Calibration after Survey

1107

Calibration after Survey

3800

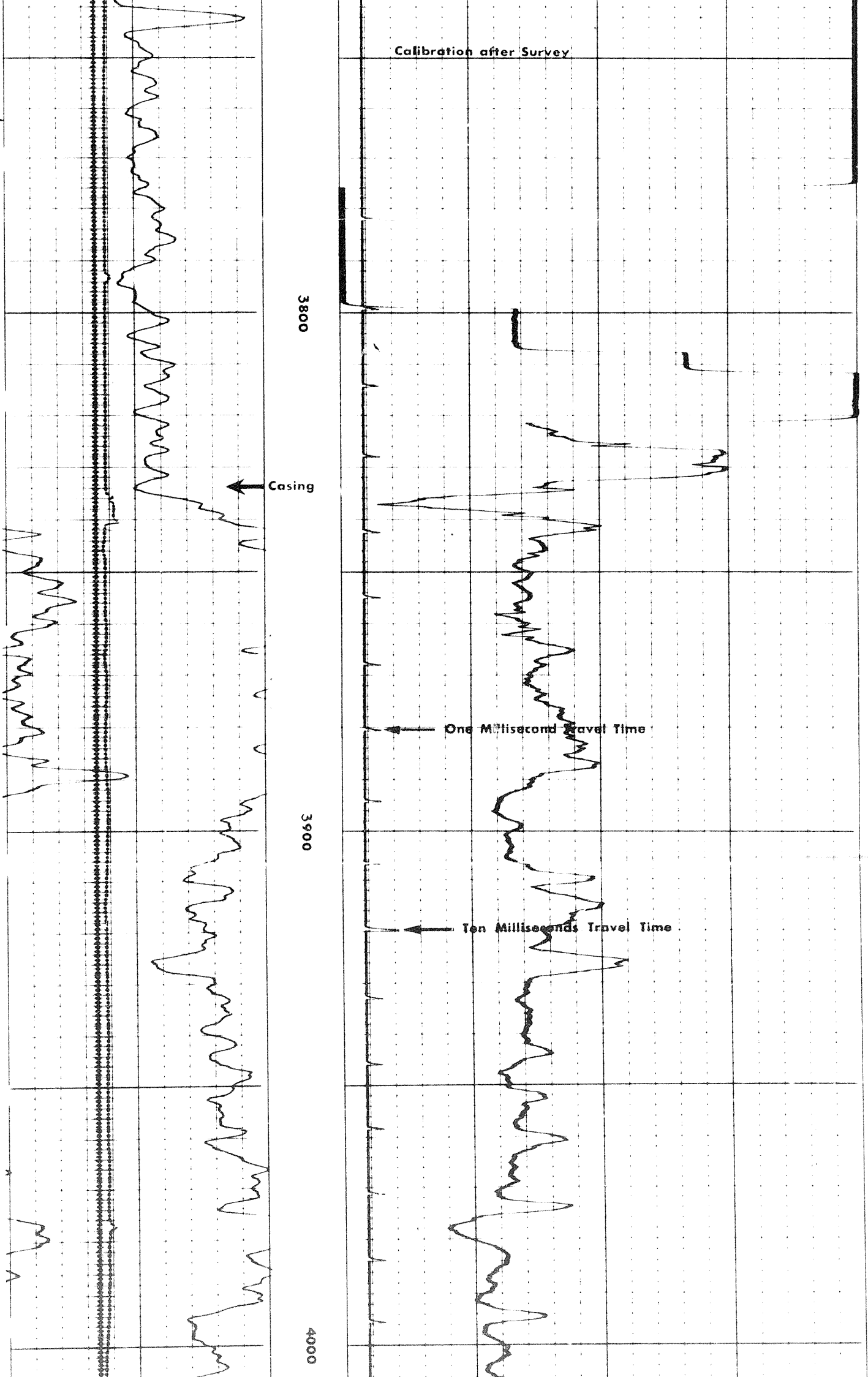
Casing

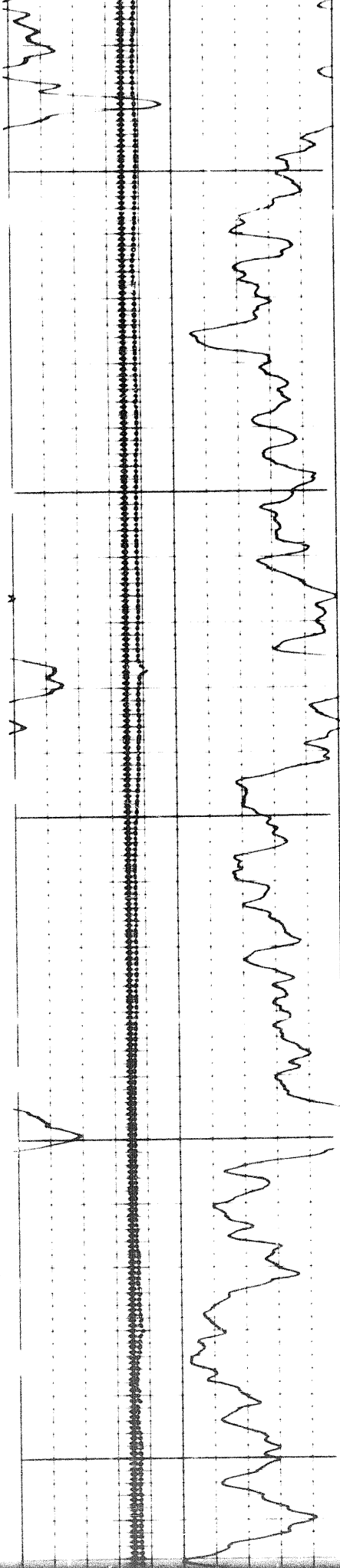
One Millisecond Travel Time

3900

Ten Milliseconds Travel Time

4000

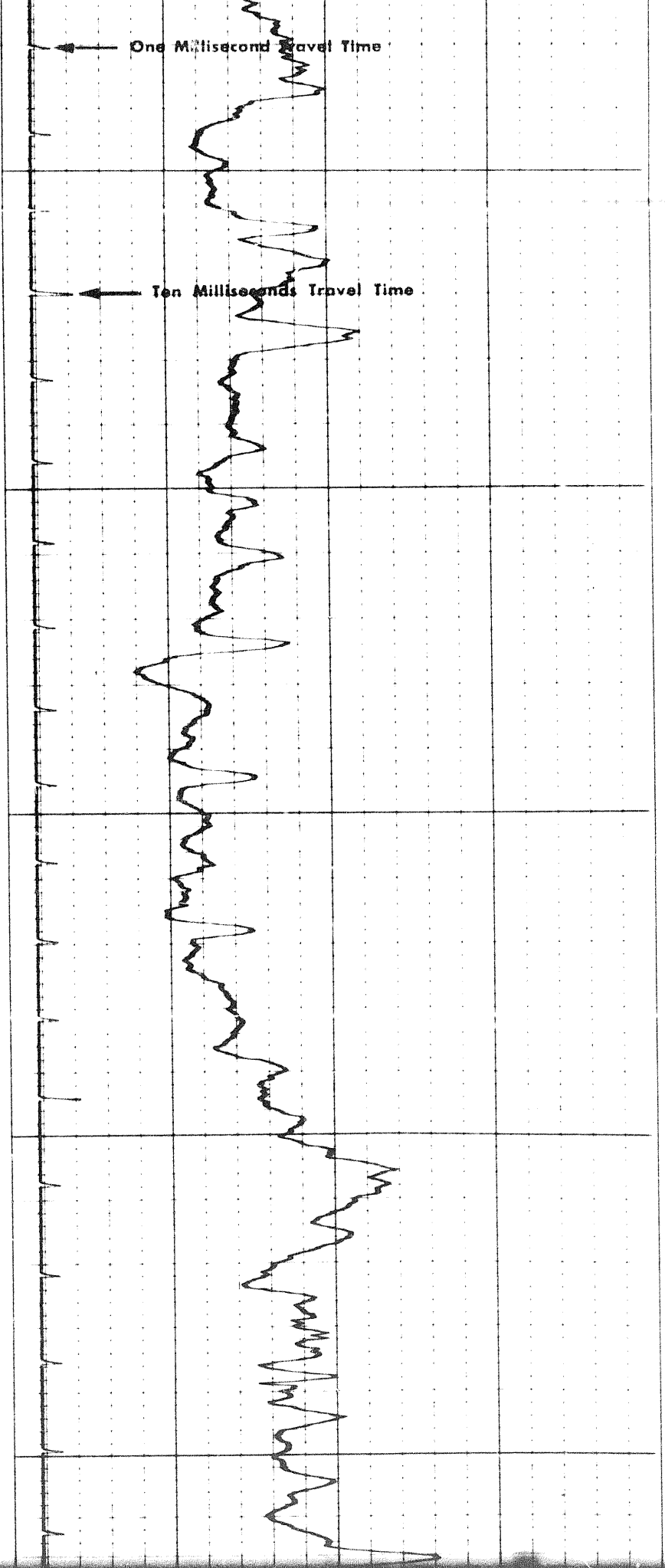


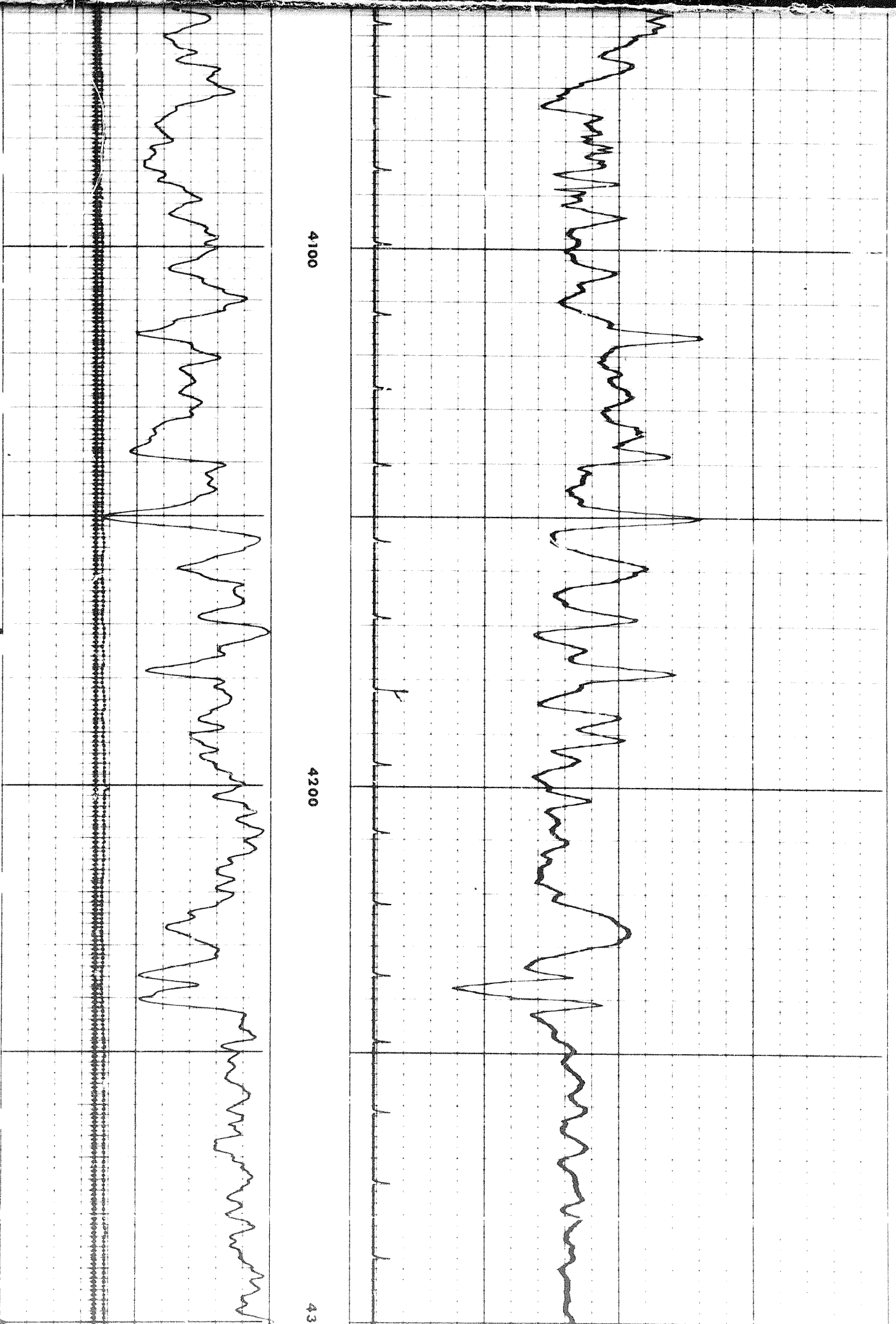


3900

4000

4100





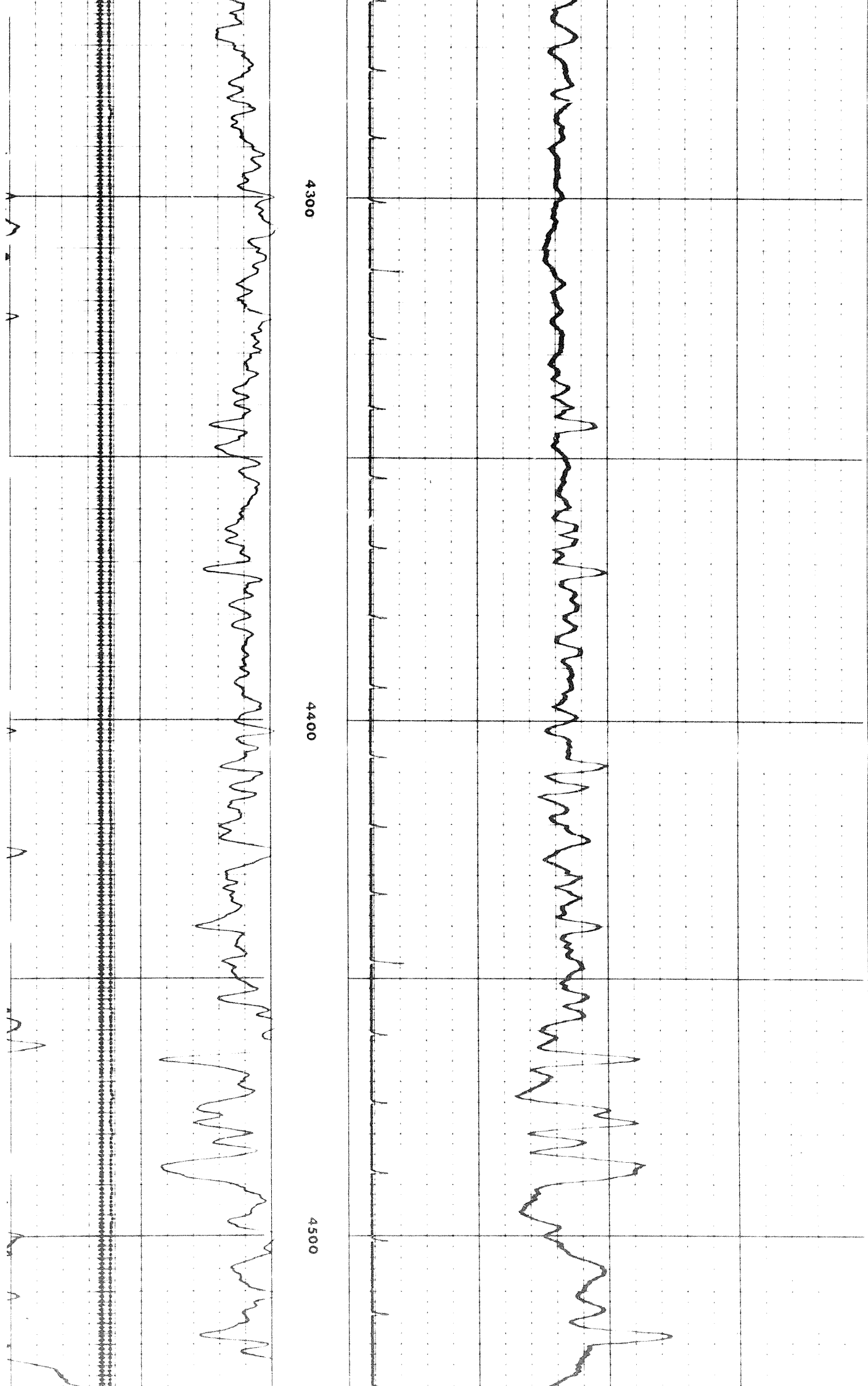
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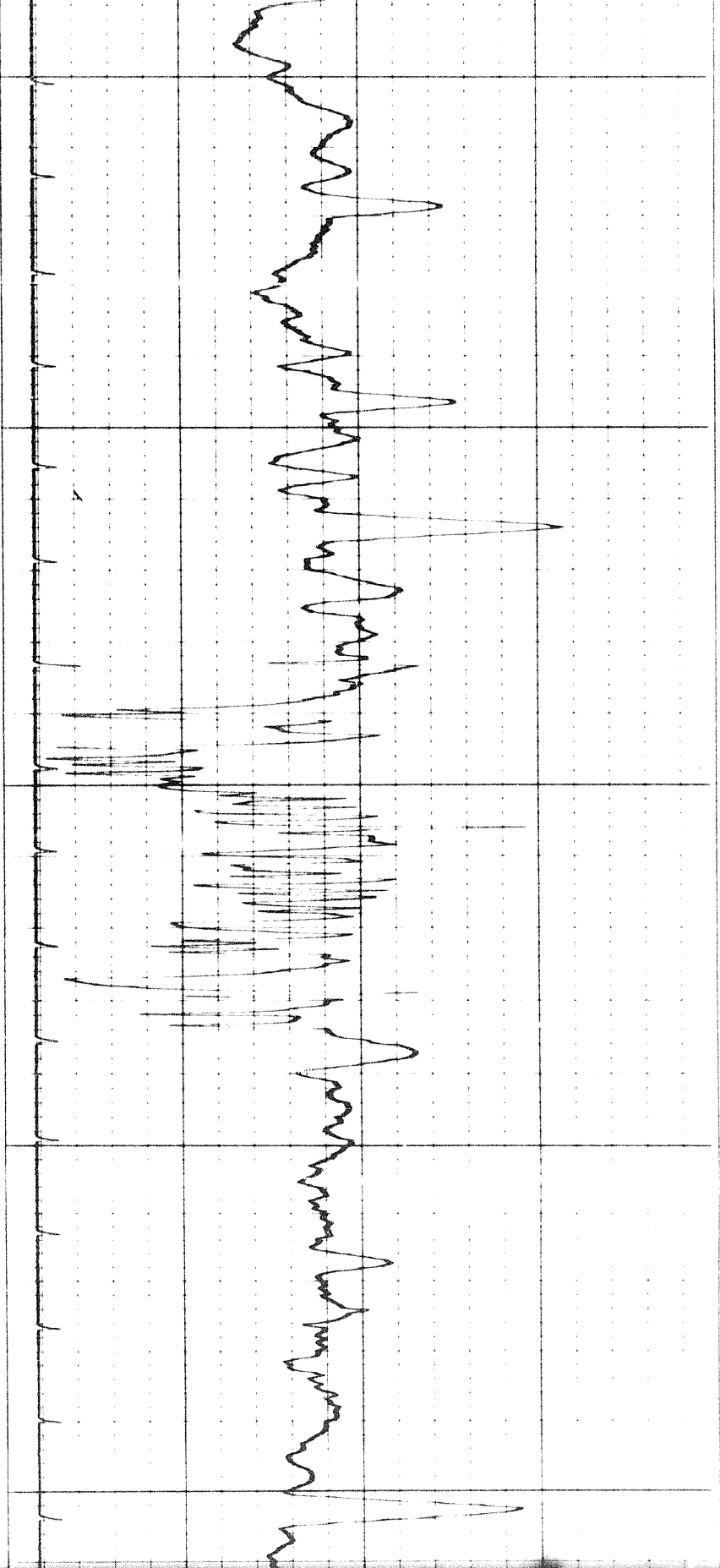
4200

43

19 01

121

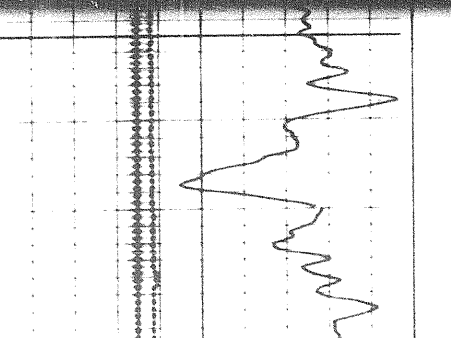
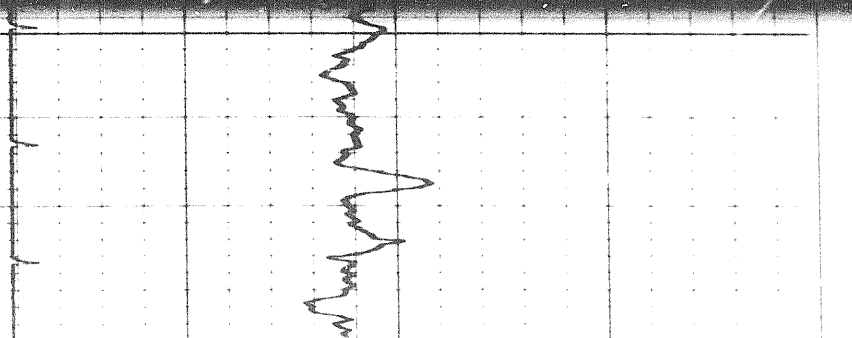
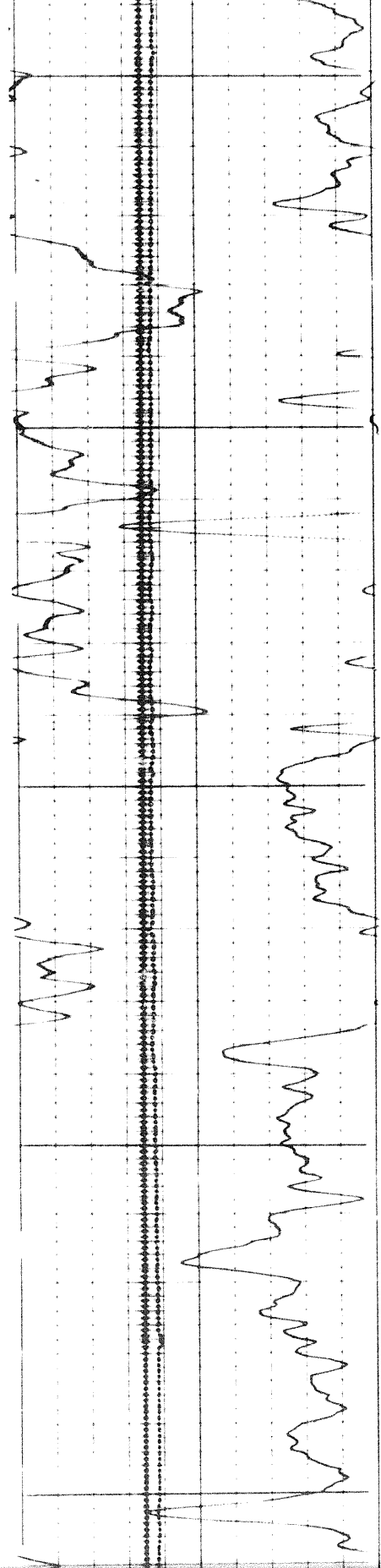


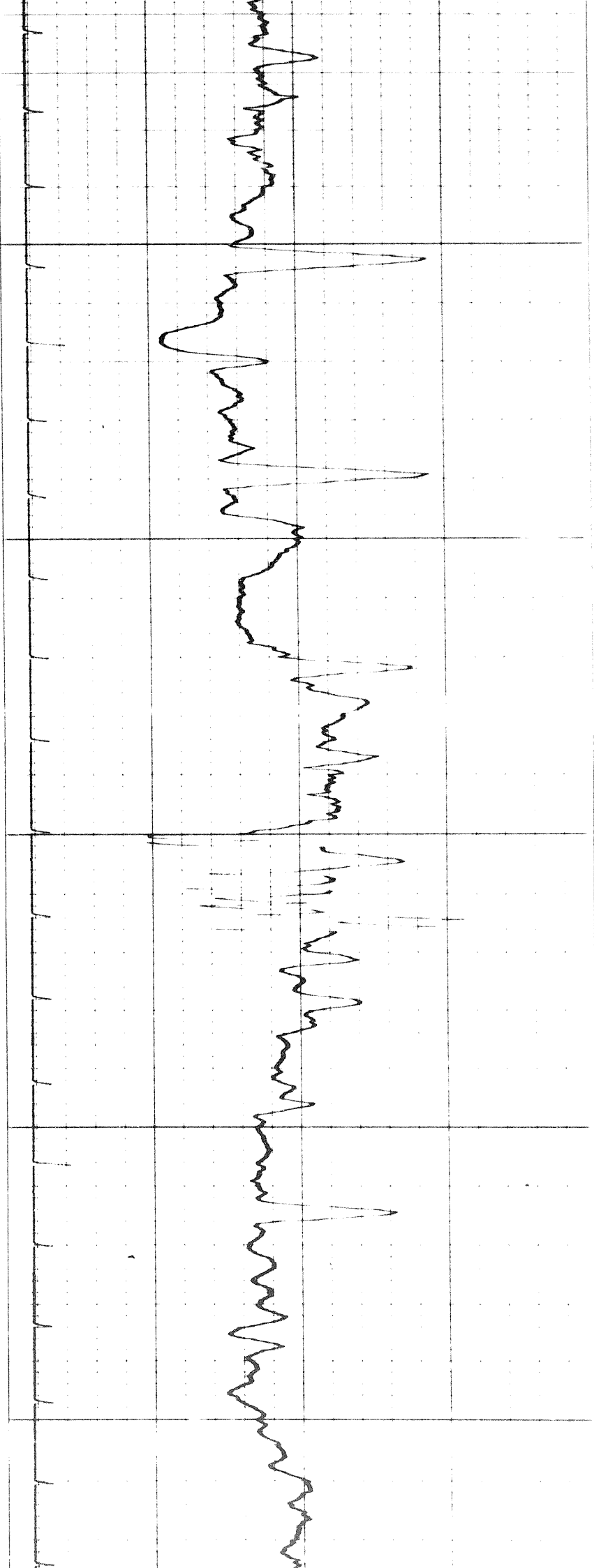


4500

4600

4700

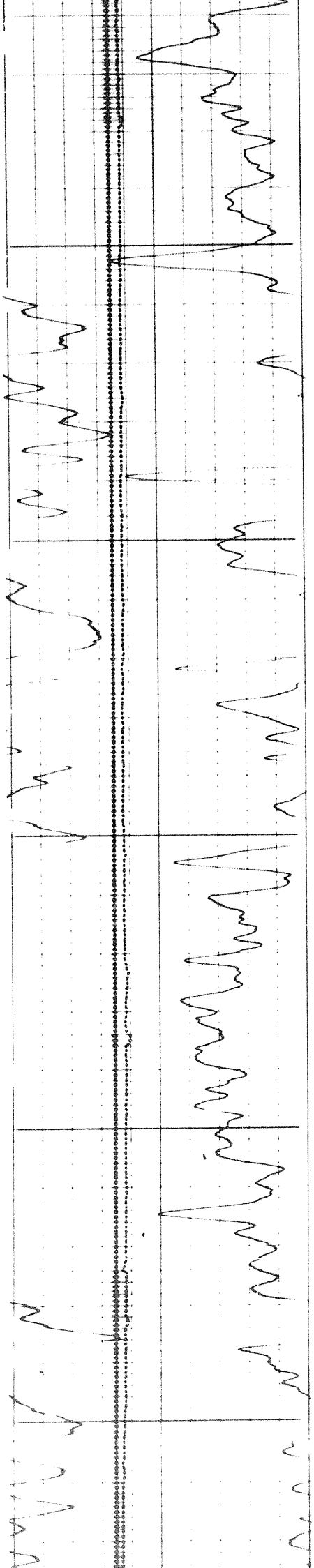


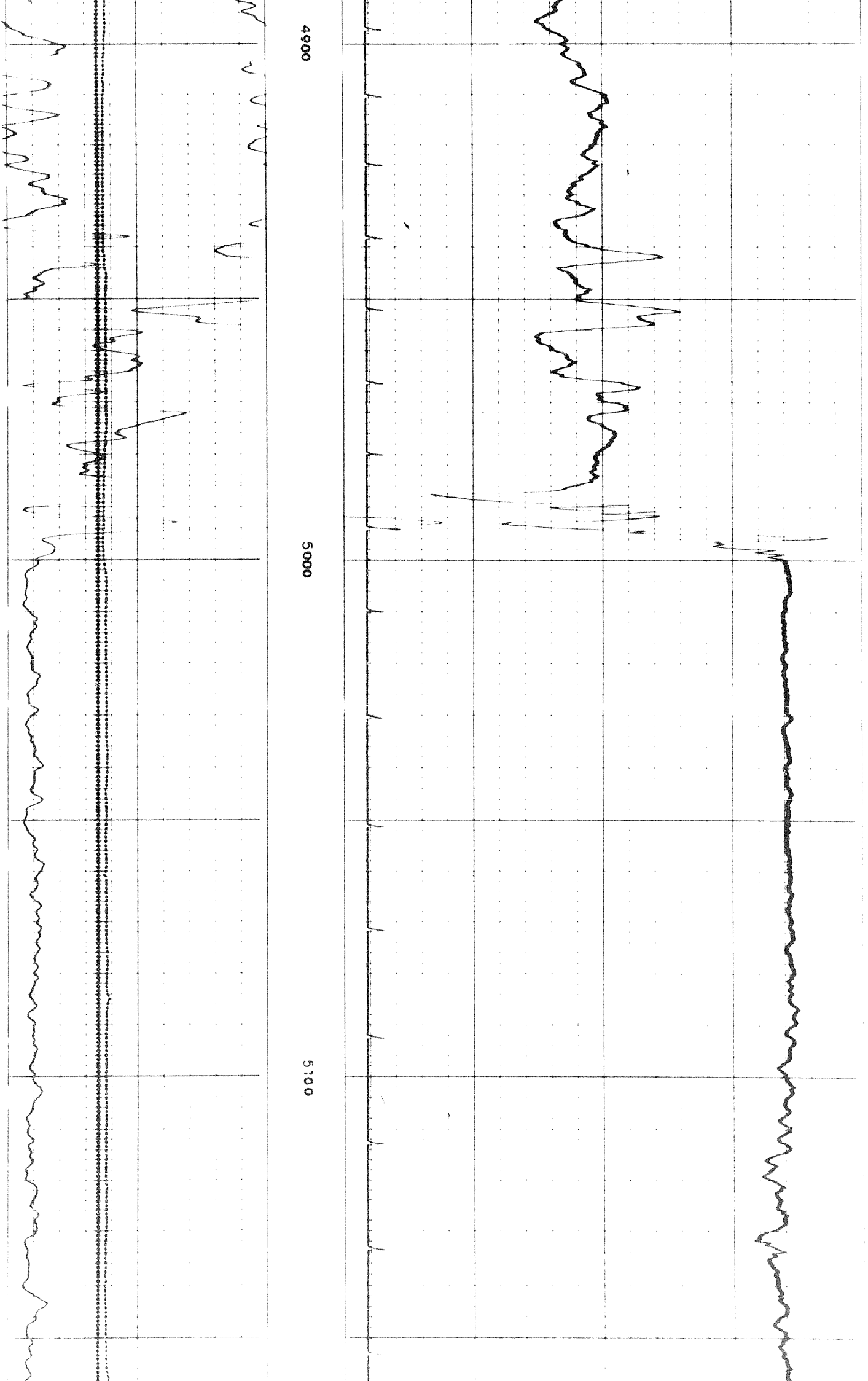


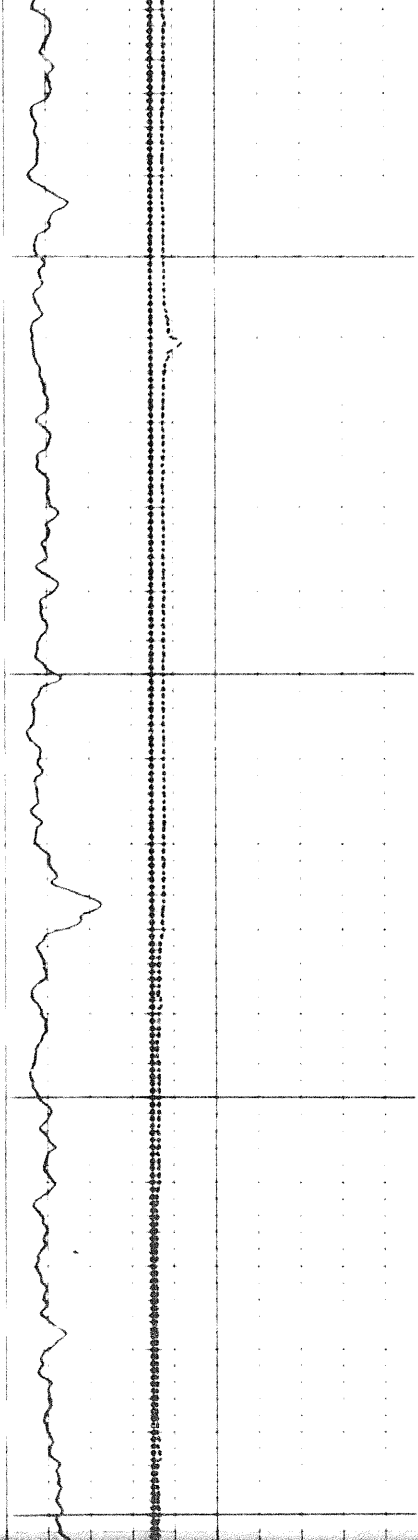
4700

4800

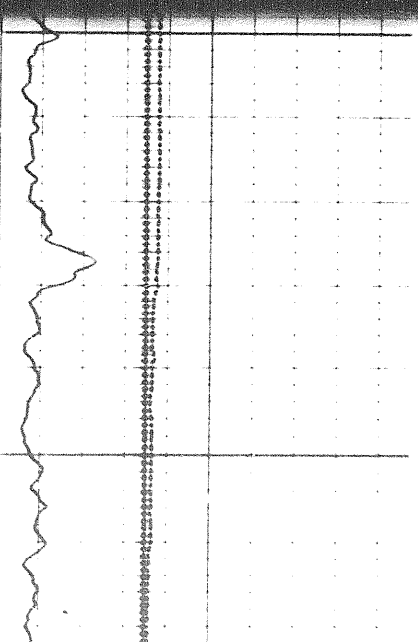
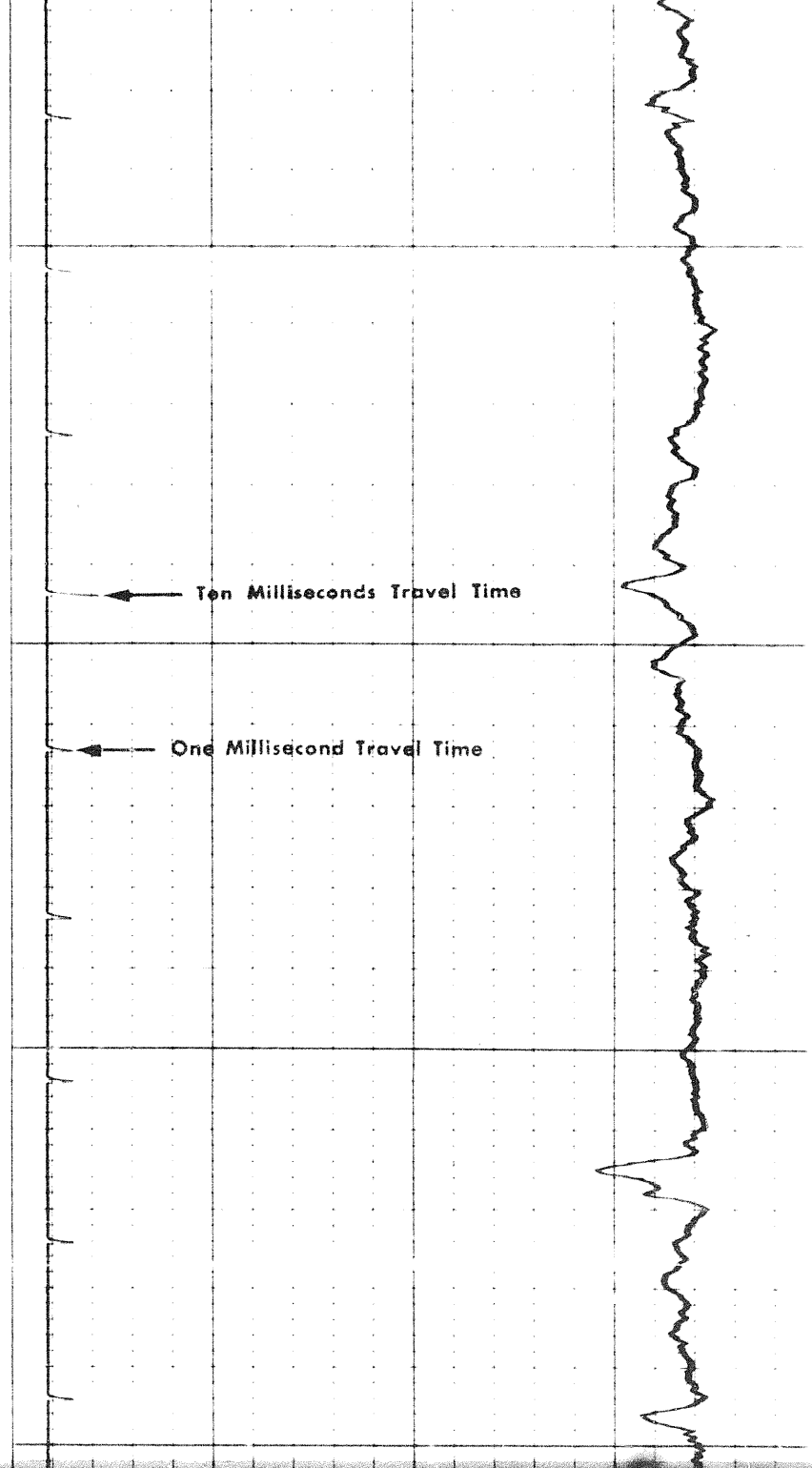
4900



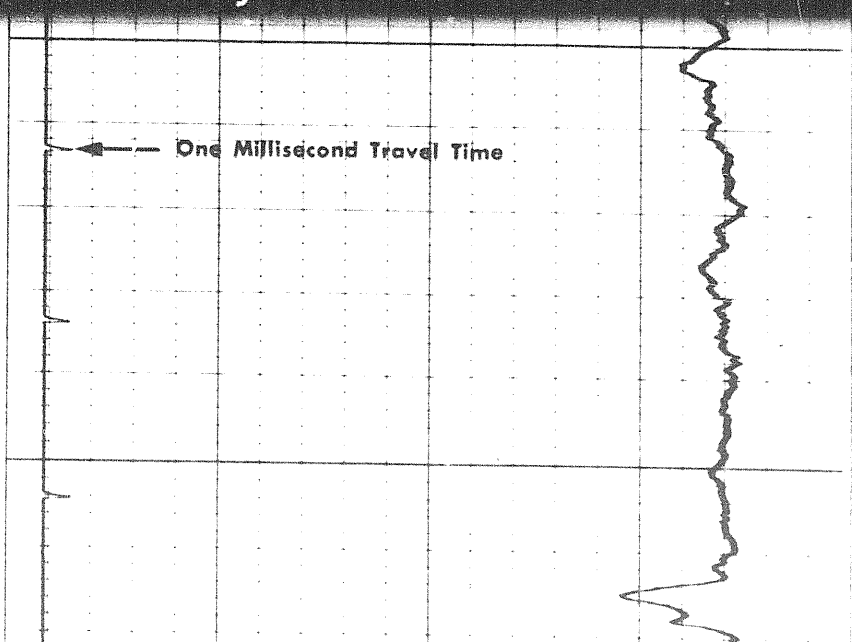


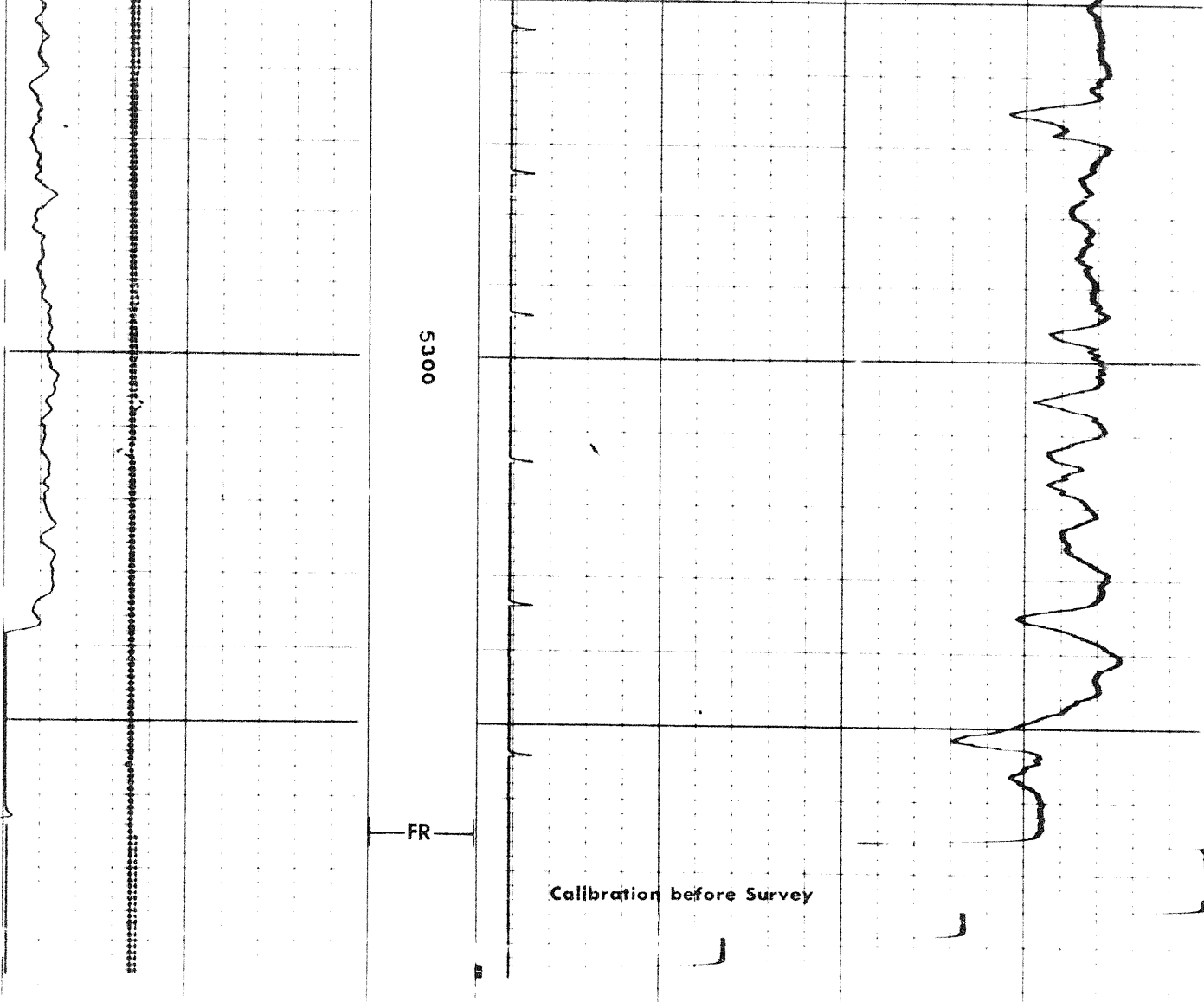


5200



5300
200





6	7	8	9	10	11	12	13	14
---	---	---	---	----	----	----	----	----

CALIPER
hole diameter in inches

Sens.	300	T.C.	1
Zero	0	div to left	
0	120	120	
120	240	240	

120	100	80
80	60	40

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

DETAIL LOG
5" = 100' RUN 2

GAMMA RAY
API UNITS

DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

Sens.	300	T.C.	1
Zero	0	div to left	
0	120	120	
120	240	240	

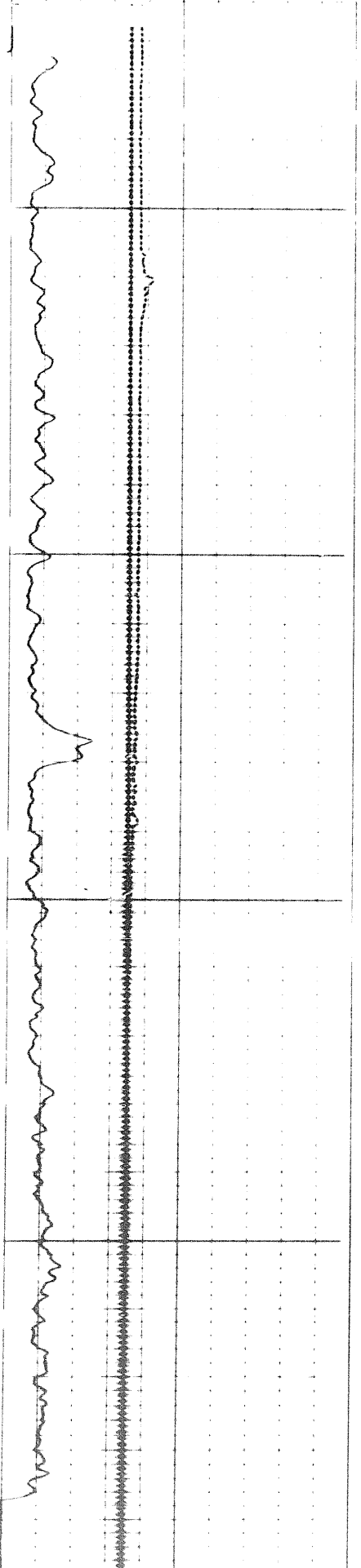
140	90	40
240	190	140

CALIPER
hole diameter in inches

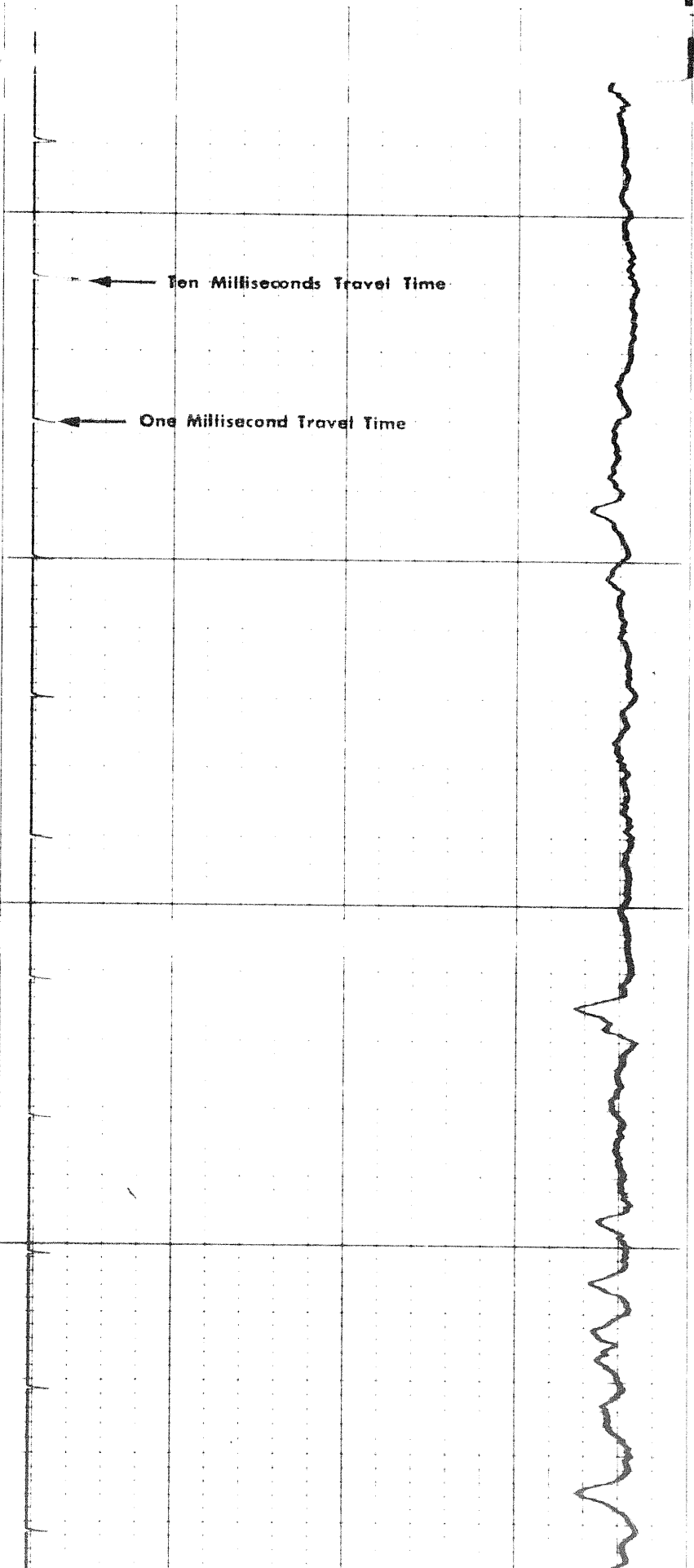
6	7	8	9	10	11	12	13	14
---	---	---	---	----	----	----	----	----

Speed in FPM →
Zero 0 div. to left
120 240
120 240

CALIPER
hole diameter in inches
6 7 8 9 10 11 12 13 14

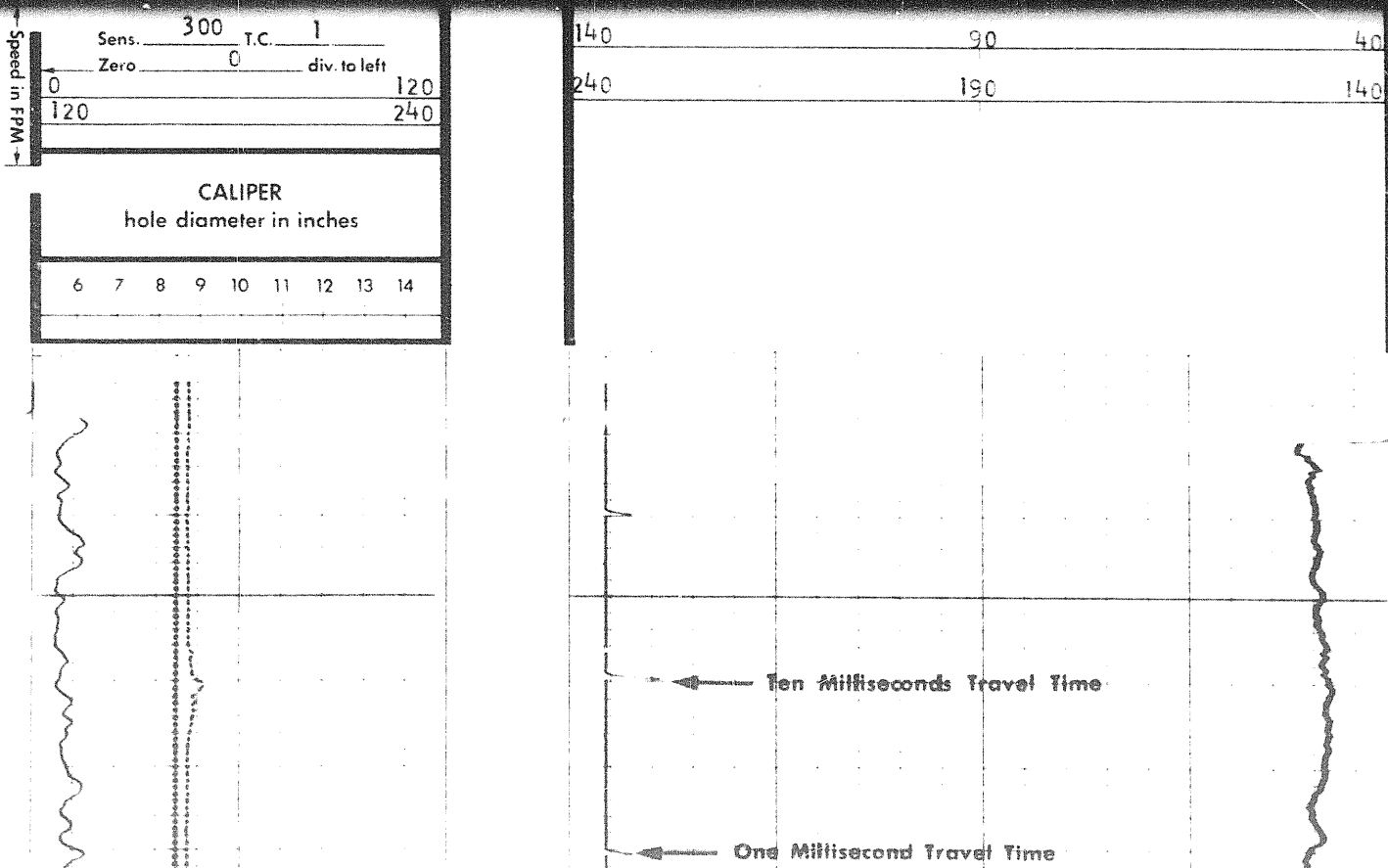
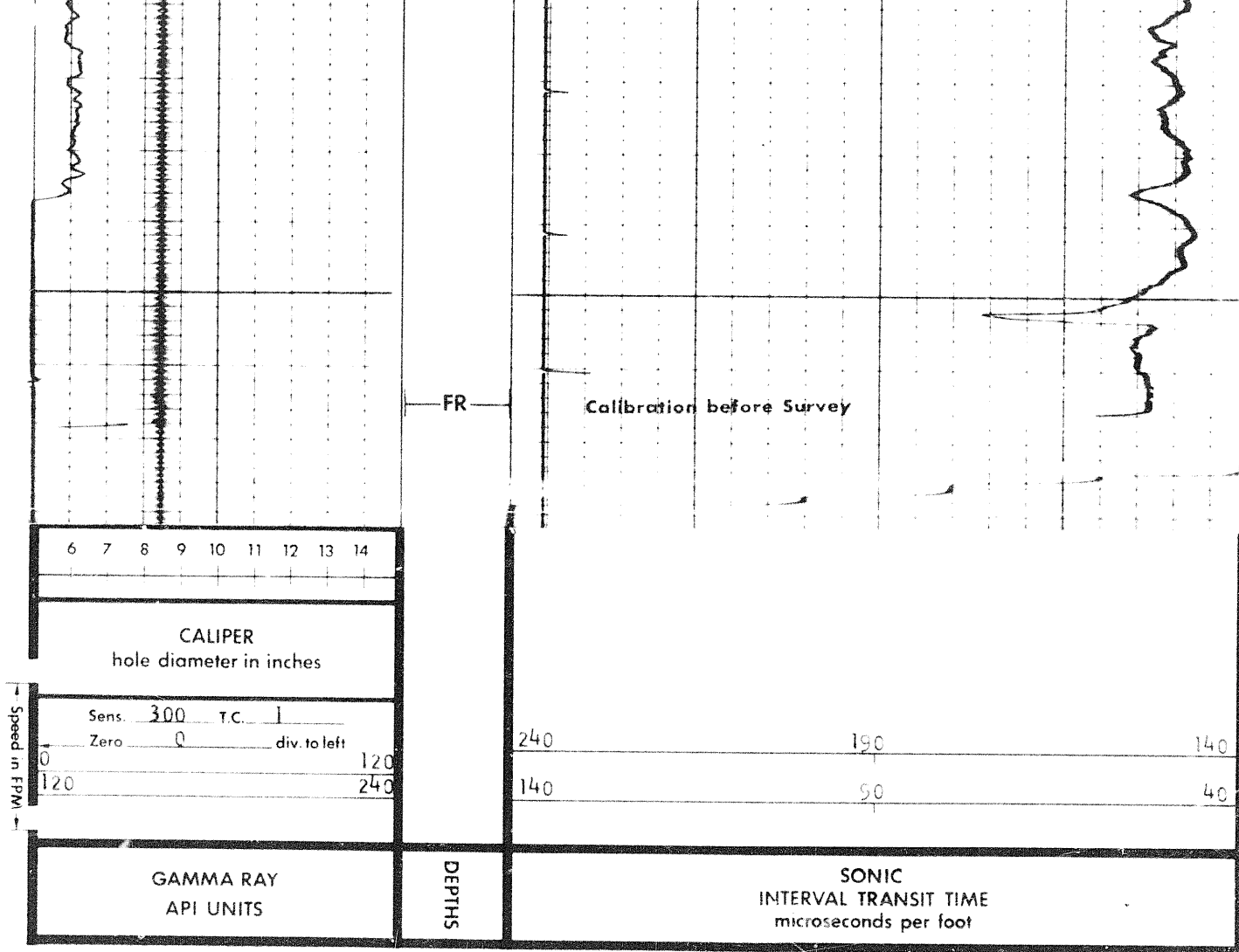


240 190 140



5200

5300



5200

5300

FR

Ten Milliseconds Travel Time

One Millisecond Travel Time

Calibration before Survey

6 7 8 9 10 11 12 13 14

CALIPER
hole diameter in inches

Sens 200 IC

6	7	8	9	10	11	12	13	14
CALIPER hole diameter in inches								
Sens. 300			T.C. 1					
Zero 0			div. to left					
0			120					
120			240					

240	190	140
140	90	40

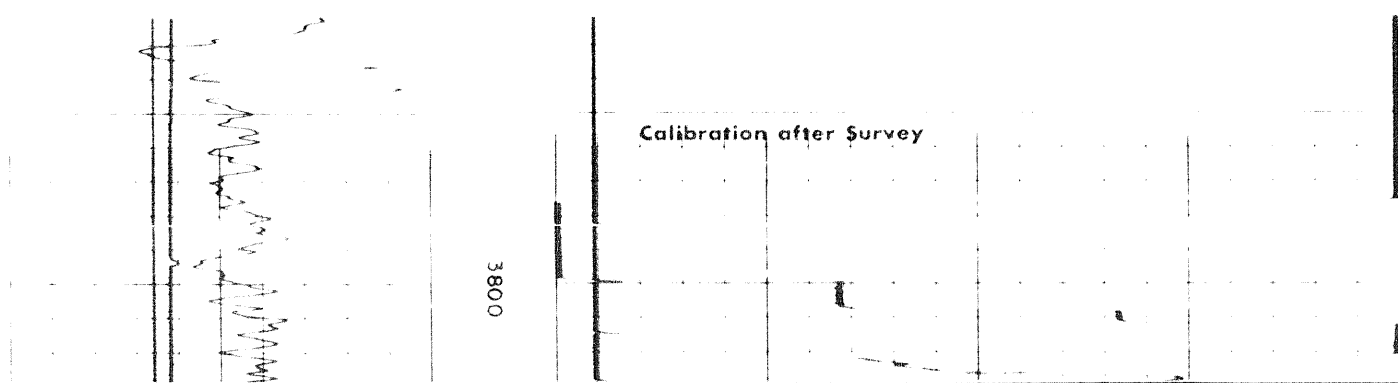
Speed in FPM

GAMMA RAY
API UNITS


DEPTHS

SONIC
INTERVAL TRANSIT TIME
microseconds per foot

RUN 2 OVERLAP



COMPANY	PAN AMERICAN PETROLEUM CORPORATION		
WELL	PAN AM SHELL MERRILL ST 4-60		
FIELD	WILDCAT	PROVINCE	YUKON TERRITORIES



SCHLUMBERGER

POROSITY LITHOLOGY LOG (SNP-FDC)

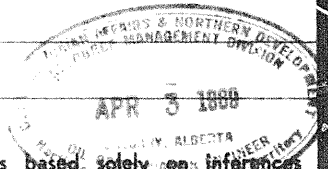
SCHLUMBERGER OF CANADA Calgary Alberta

COMPANY PAN AMERICAN PETROLEUM CORPORATION

WELL PAN AN SHELL TERRILL ST L-60

FIELD WILDCAT

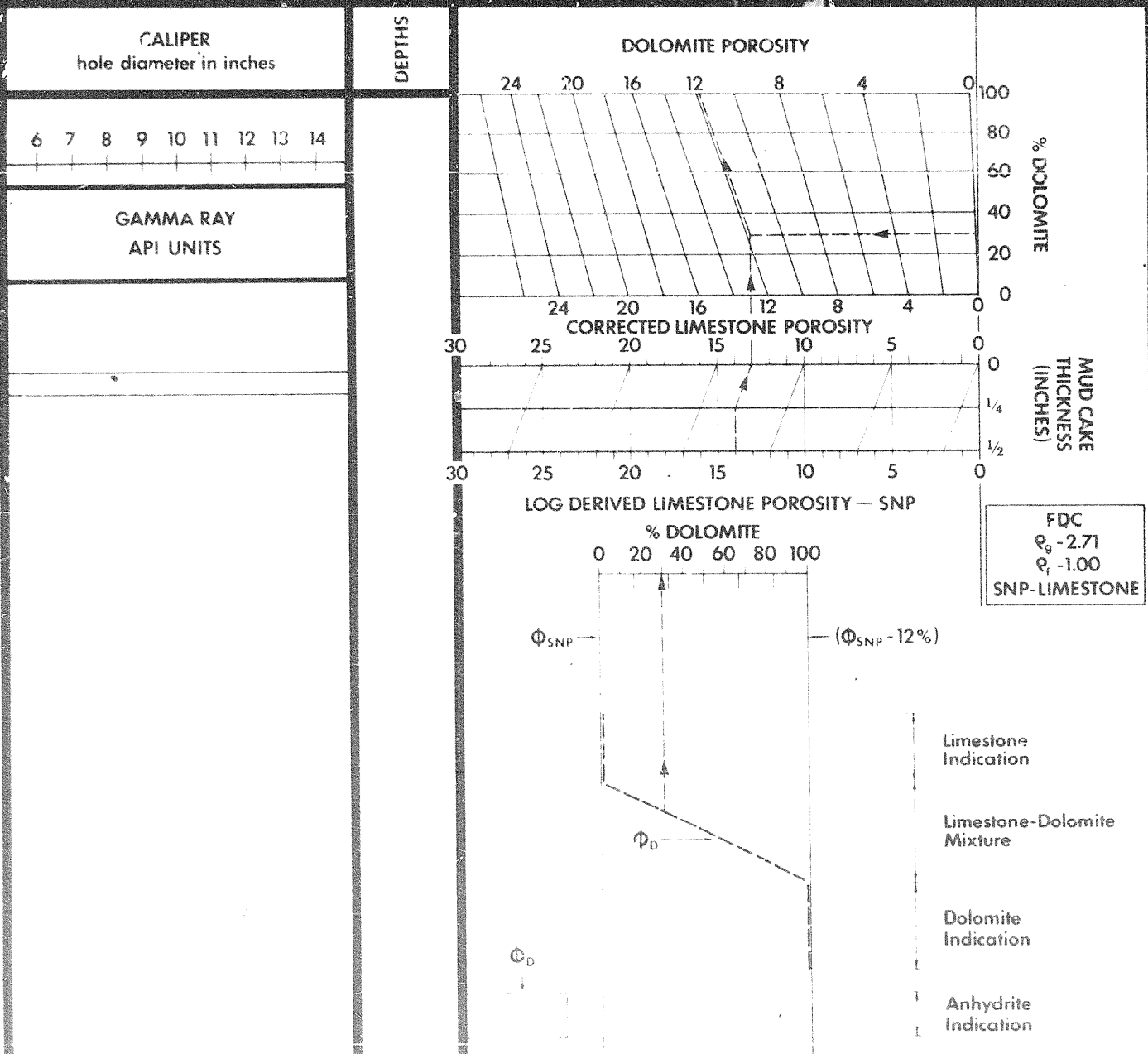
PROVINCE YUKON



FIELD PRESENTATION

This interpretation represents our best judgment. Nevertheless since all interpretations are opinions based solely on inferences from electrical or other measurements, we cannot and do not guarantee the accuracy or correctness of any interpretation and shall not be liable or responsible for any loss, cost, damages, or expenses that may be incurred or sustained resulting from this or any other interpretation.

SCHLUMBERGER OF CANADA



Dolomite
Indication

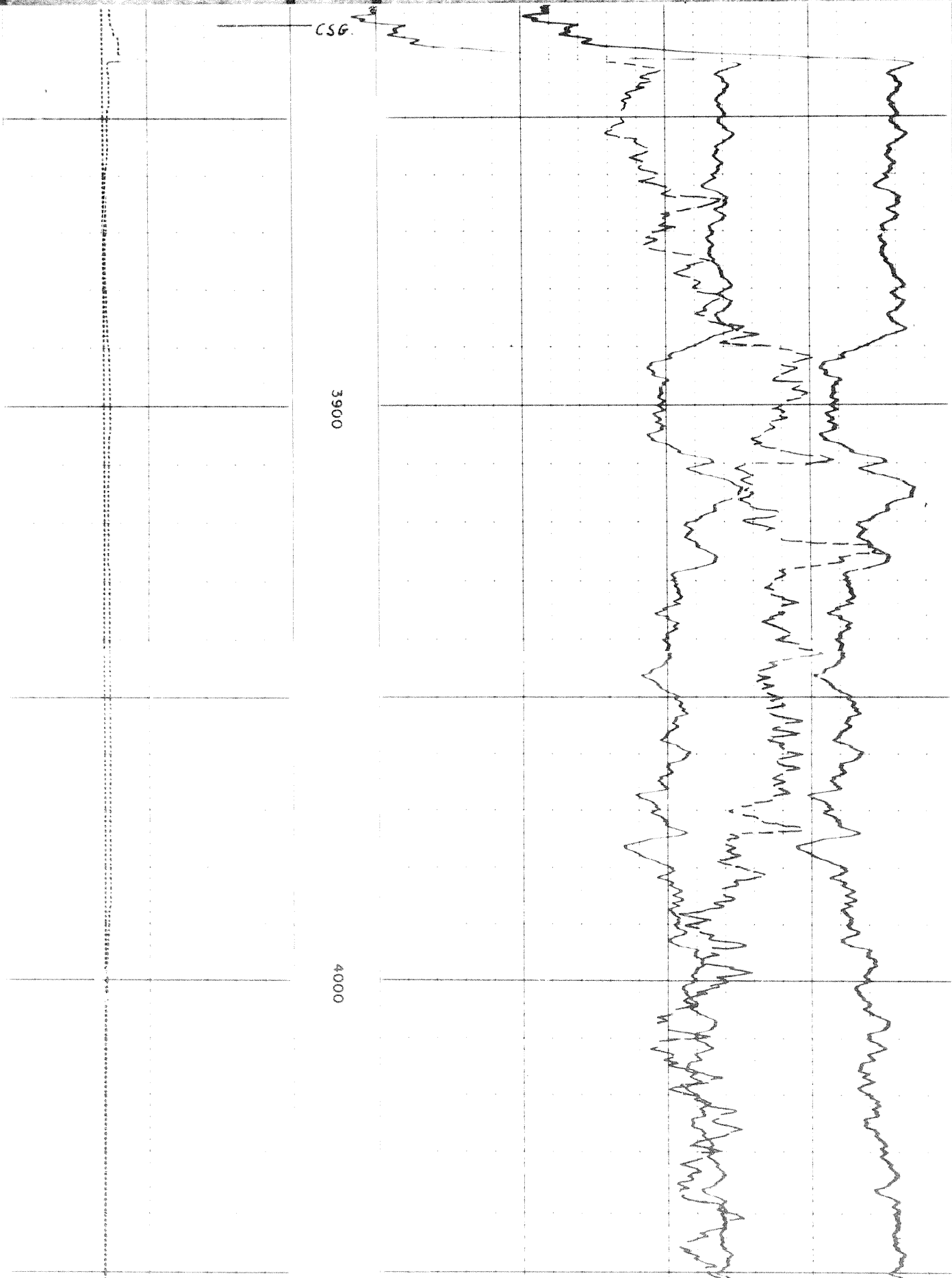
Anhydrite
Indication

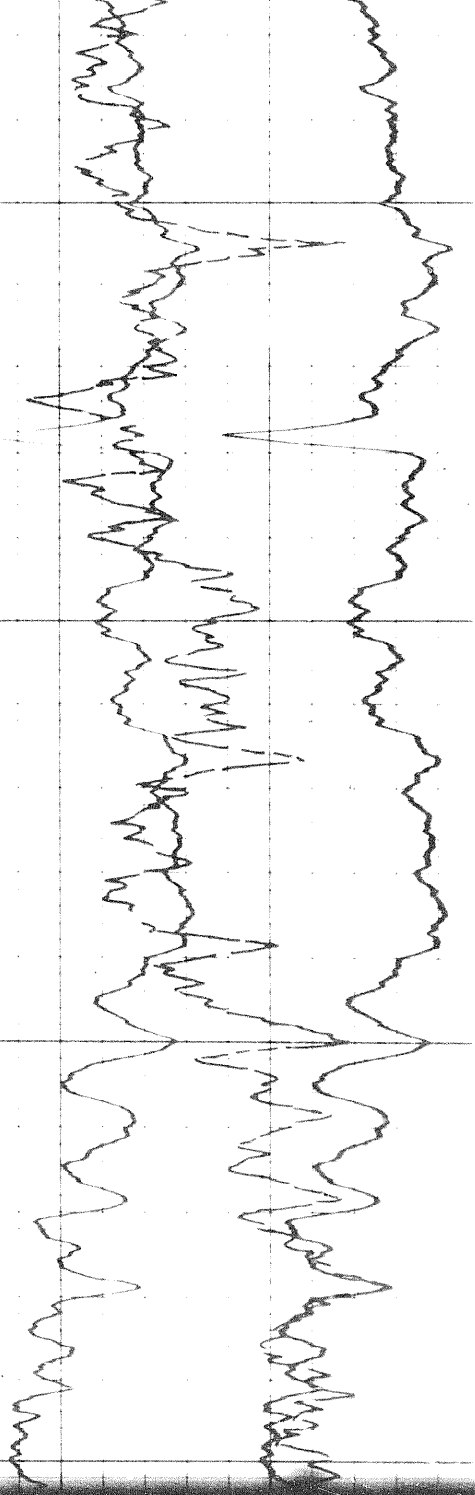
ϕ_0

CSG

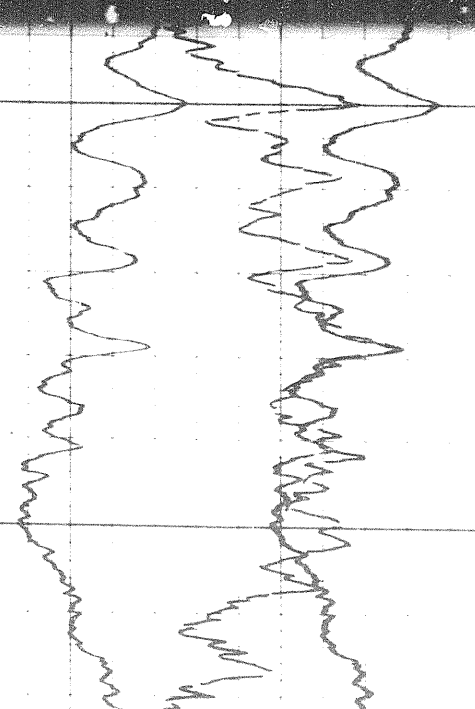
3900

4000



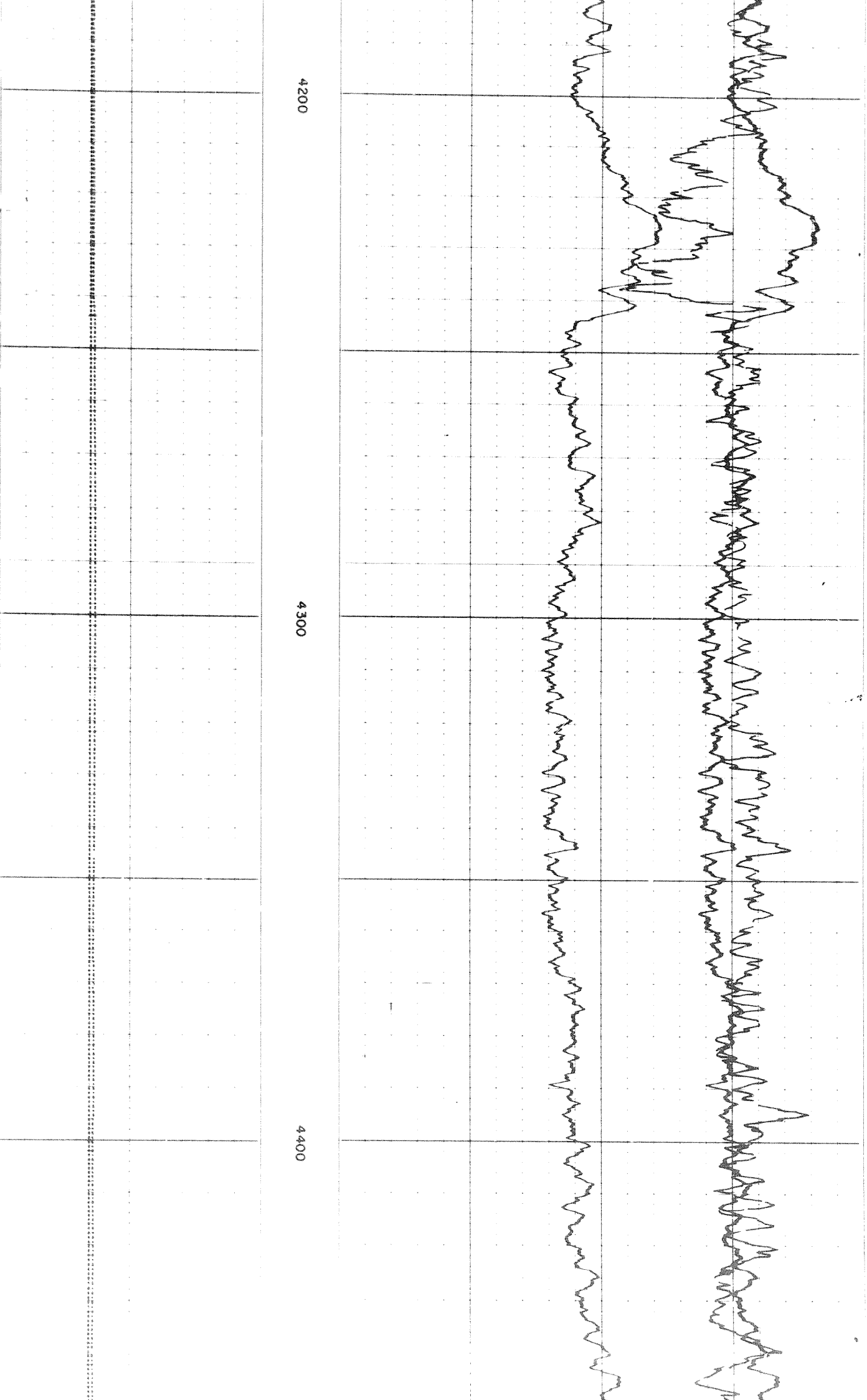


4100



4200

4200

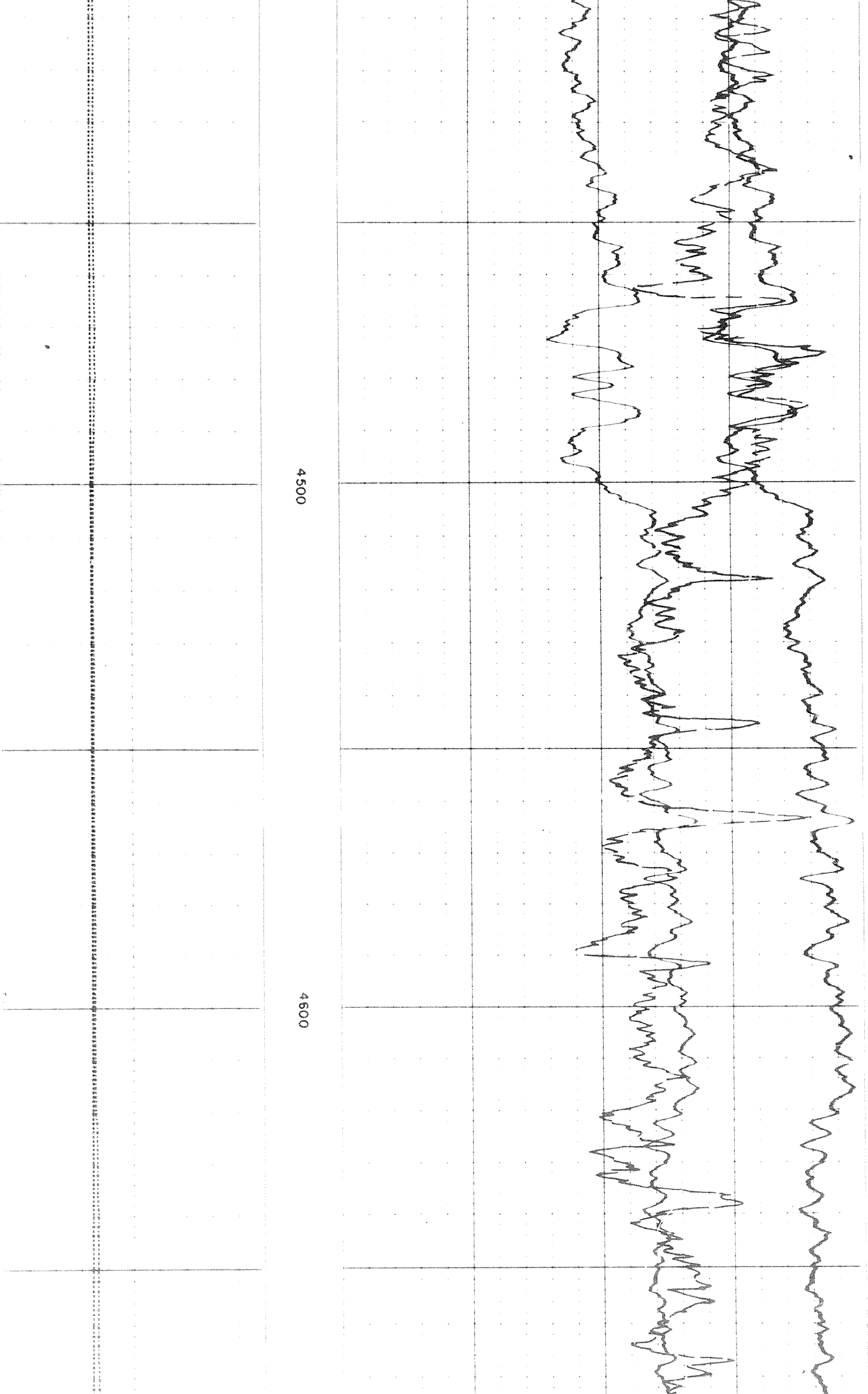


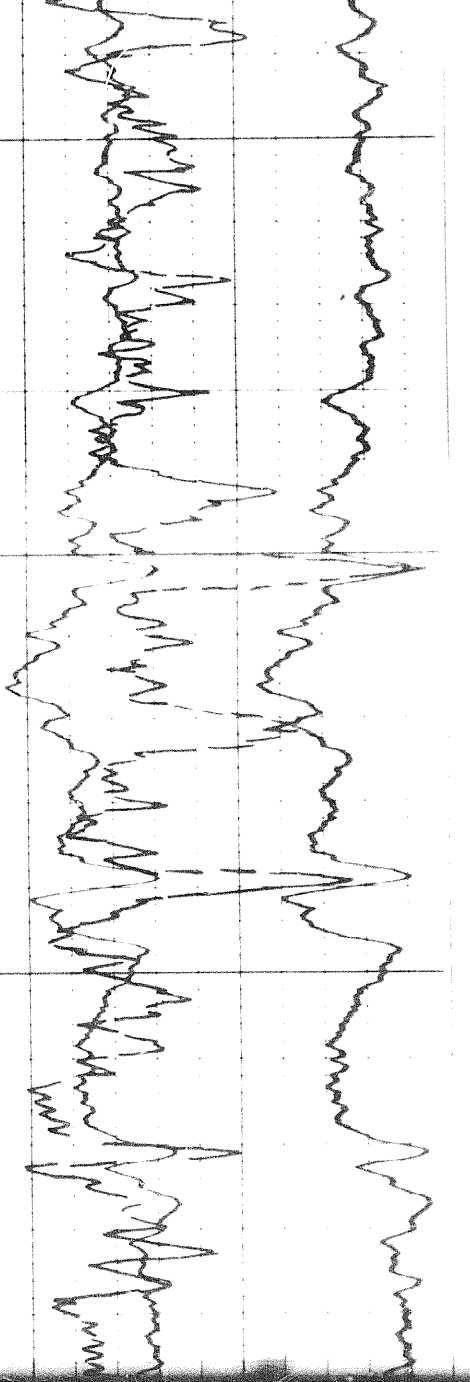
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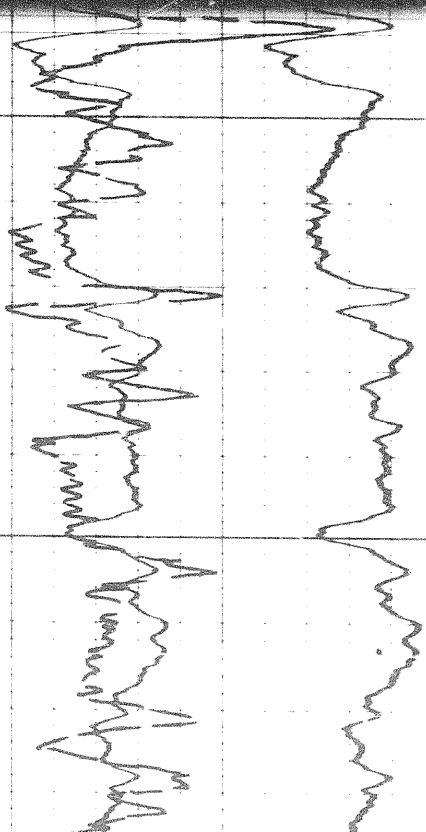
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0.2

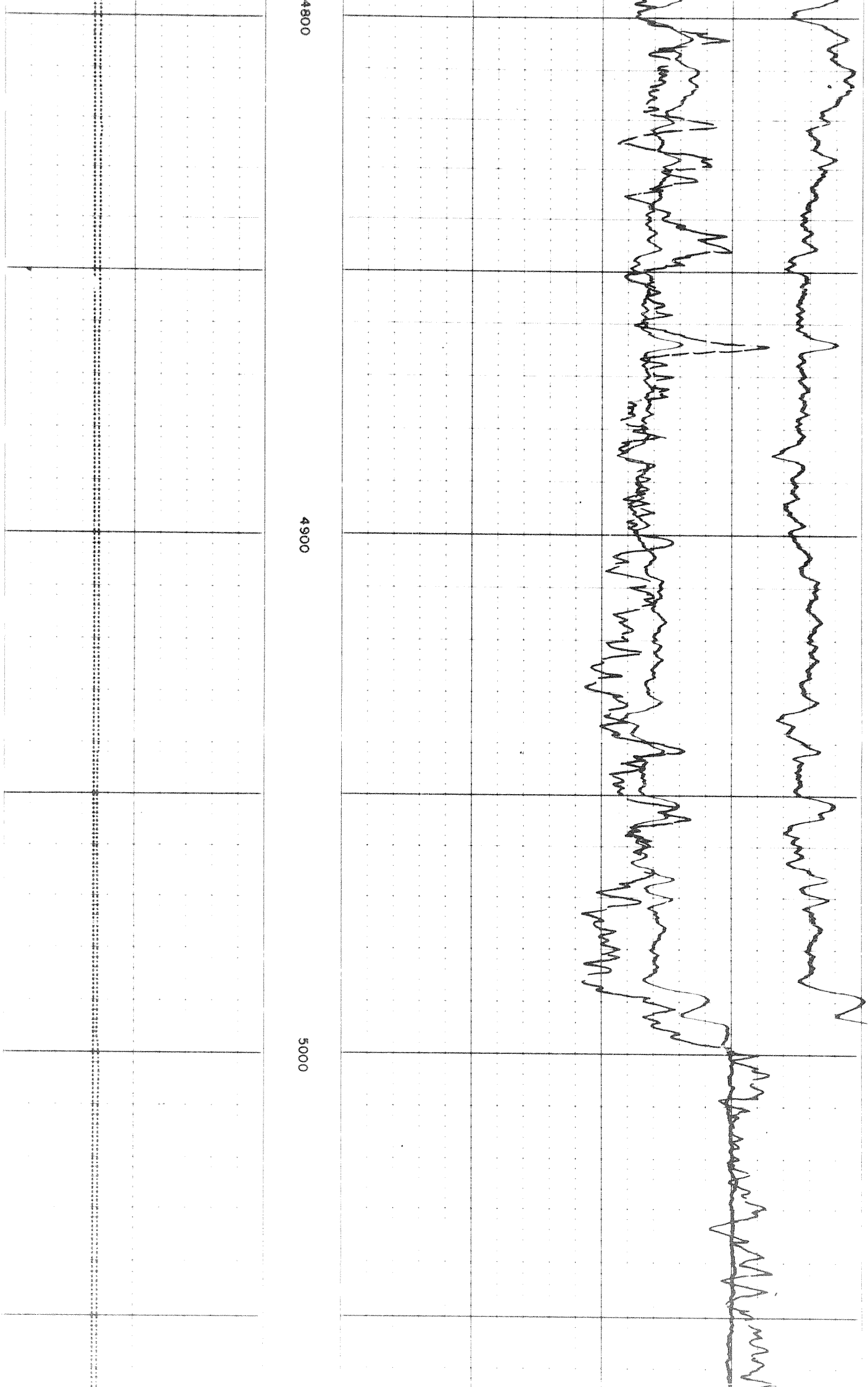




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4800

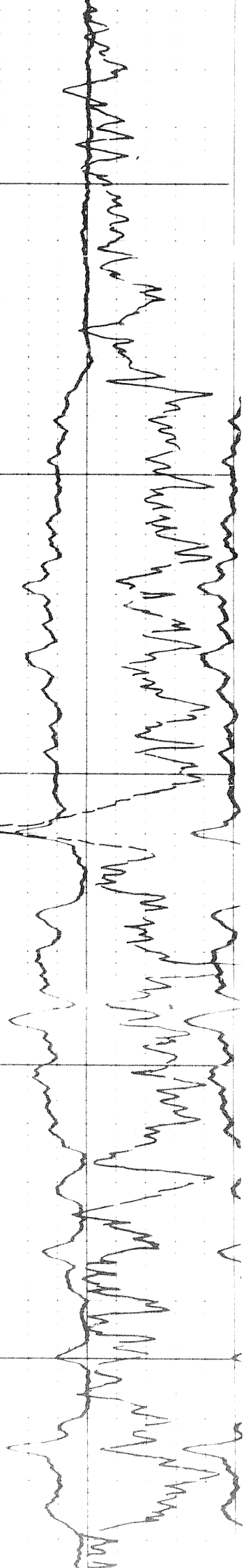


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4900

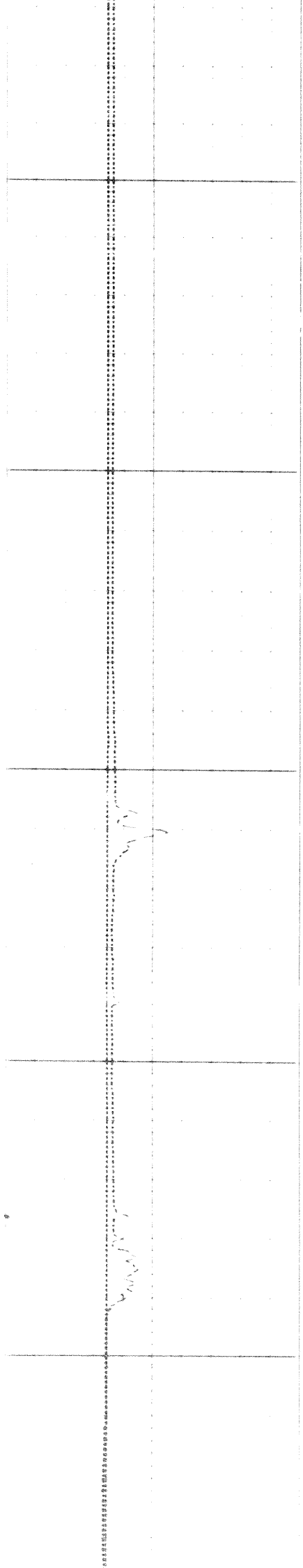
5000

2012



5100

5200



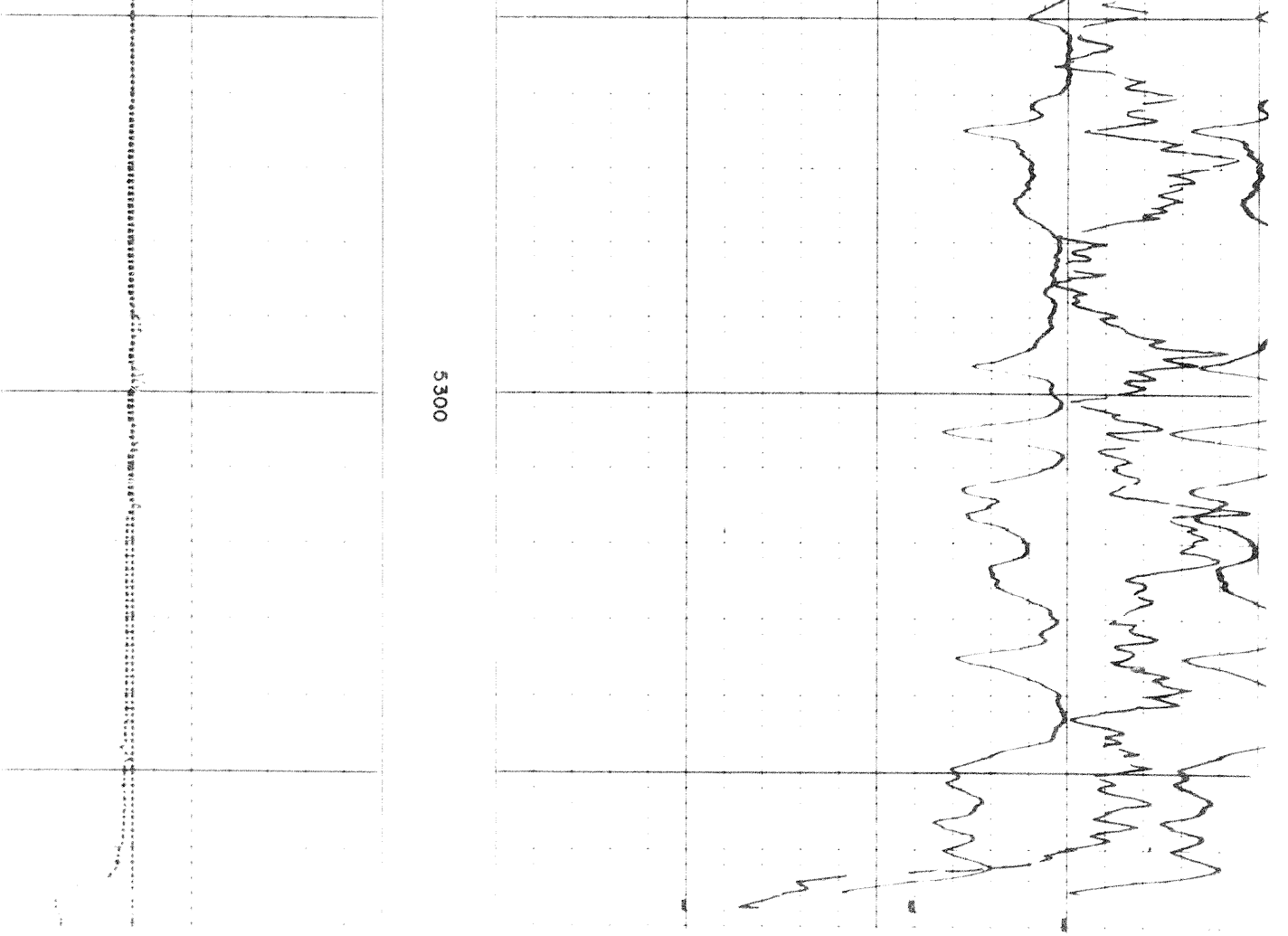
SCHLUMBERGER

FORMATION
SCHLUMBERGER OF CANVA

COMPEN

PROVINCE YUKON TERRITORIES
FIELD WILDCAT
WELL PAN AM SHELL MERRILL ST
L-60
COMPANY PAN AMERICAN PETROLEUM CORPORATION

COMPANY PAN AMERICAN PETROLEUM CO
WELL PAN AM SHELL MERRILL ST
FIELD WILDCAT
PROVINCE YUKON TERRITORIES
LOCATION 60° 20' N LAT
124° 15' W LONG
Permanent Datum GL Elev 1537.5
Log Measured From KB 12.5 Ft Above Perm



5300

Date	3 MAR 69
Run No.	ONE
First Reading	5364
Lost Reading	3834
Feet Measured	1530
Depth Reached	5365
Bottom Driller	5362
Csg. SOC	3834
Csg. Driller	3831
Mud Mixture	GEL CHEM
Dens. Visc.	9.74 48
Mud pH	8.0
Water Loss	6.4
Res.	2.53 @ 40 %F
Rmf	1.92 @ 72 %F
@ BHT	0.70 @ 180 %F
Rmc	@
ppm - Cl	@
Bit Size	8 1/2"
Source to Detector	
Spacing	16"
Equipment Type	PGI-D
Op. Rig time	1.5 HRS
Truck No.	3702 DC
Recorded By	ALEXANDER
Witness	MAGEL