

COUNTY _____
FIELD _____
LOCATION _____
WELL _____
COMPANY _____

COMPANY E G & G
WELL INEL # 1
FIELD WILDCAT
COUNTY BUTTE STATE IDAHO
LOCATION _____
API SERIAL NO. _____ SEC. _____ TWP. 3N RANGE 29E
Other Services:
DIL _____
FDC/CNL/GR _____
BGT-CALIPER _____
HRT _____

Permanent Datum: GROUND LEVEL; Elev.: 4874.8
Log Measured From GL 0 Ft. Above Perm. Datum
Drilling Measured From GL Elev.: 4895
D.F. 4874.8
G.L. 4874.8

Date	3/27/79	5/10/79	5/18/79
Run No.	ONE	TWO	THREE
Depth-Driller	3555 (STRAP)	9816	10333
Depth-Logger (Schl.)	3553	9702	10125
Btm. Log Interval	3551	9691	10122
Top Log Interval	1296	3558	8792
Casing-Driller	20 @ 1511	13 3/8 @ 3559	13 3/8 @ 3559
Casing-Logger	1511	3558	NOT LOGGED
Bit Size	17.50	12.25	12.25
Type Fluid in Hole	LSND	FRSEH WATER	WATER
Dens. Visc.	8.8 57	NA NA	NA NA
pH Fluid Loss	8.0 13.6ml	NA NA ml	NA NA ml
Source of Sample	MUD TANK	MUD TANK	MUD TANK
Rm @ Meas. Temp.	8.57 @ 70°F	15.5 @ 58°F	@ @ @
Rmf @ Meas. Temp.	8.94 @ 59°F	15.5 @ 58°F	@ @ @
Rmc @ Meas. Temp.	12.86 @ 70°F	@ @ @	@ @ @
Source: Rmf Rmc	M C	M	
Rm @ BHT	5.22 @ 116°F	3.94 @ 228°F	1.80 @ 257°F
Circulation Stopped	3/27 @ 1300	0500	0200
Logger on Bottom	3/27 @ 1300	1700	1930
Max. Rec. Temp.	116°F	228°F	257°F
Equip. Location	8060 LEVSTN	7674 WERNAL	8056 LEVSTN
Recorded By	ROONEY	GALES/VALENTI/BRADLEY	
Witnessed By Mr.	STRAWN/NELSON	/GOLDMAN/STRAWN	

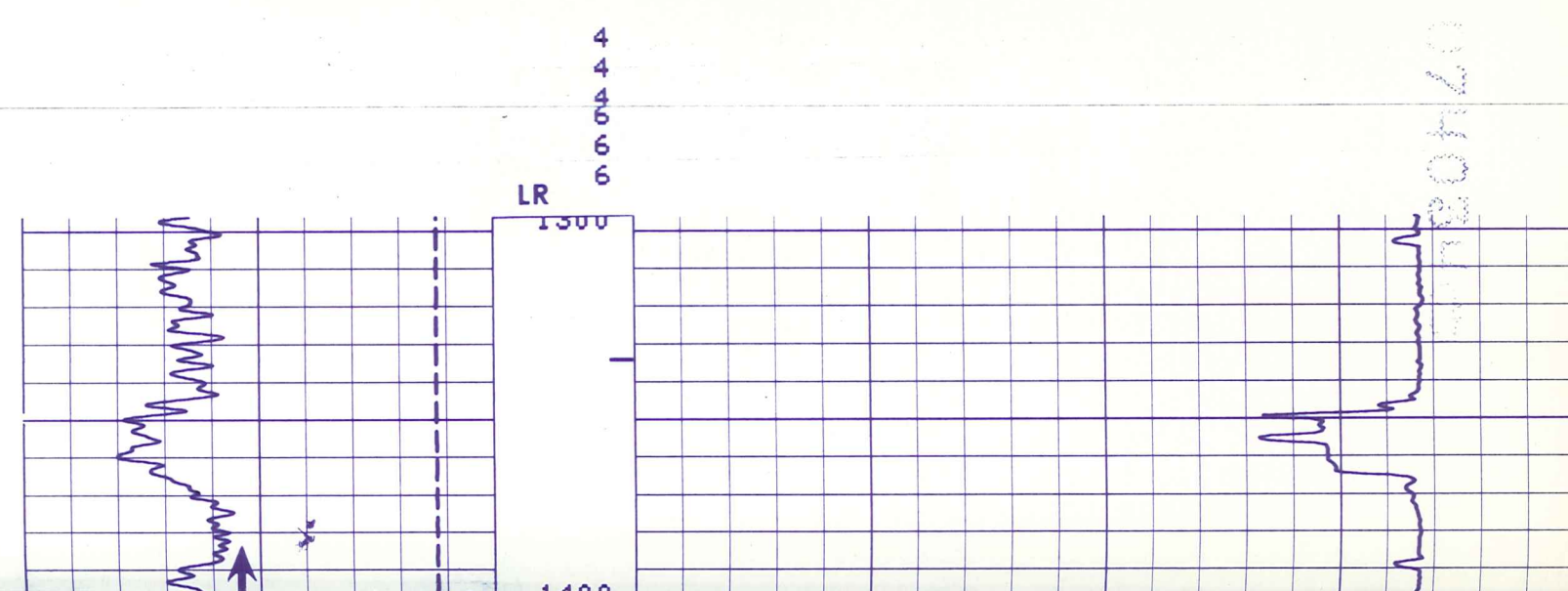
FOLD HERE The well name, location and borehole reference data were furnished by the customer.

Run No.	ONE	TWO	THREE	
Service Order No.	40303	33950	74054	
Fluid Level	FULL	FULL	FULL	
EQUIPMENT DATA				
Sonic Panel No.	SLM 120	173	118	
Sonic Cart No.	610	1028	637	
Sonic Sonde No.	2030	2223	2036	
Mem. Panel No.	CSU	ILP CA604	CSU	
G.R. Cart. No.	684	540	1140	
G.R. Panel No.	NLM 178	ILP CA604	124	
Caliper No.	VCD 905	1269	578	
TTR No.	CSU	1963	CSU	
Centralizers: No.	ONE ONE	1	ONE	
Type	CMEZ VCD	CMEZ	CMEZ	
Standoffs: No.				
Type				
Time Const.-Sec.	AUTO	AUTO	AUTO	
Speed - F.P.M.	60	30-60	30	
CALIBRATION DATA				
GR	BKG. CPS	41	140	44.43
	Source CPS	182	560	189.50
	Tc Sec	AUTO	AUTO	AUTO

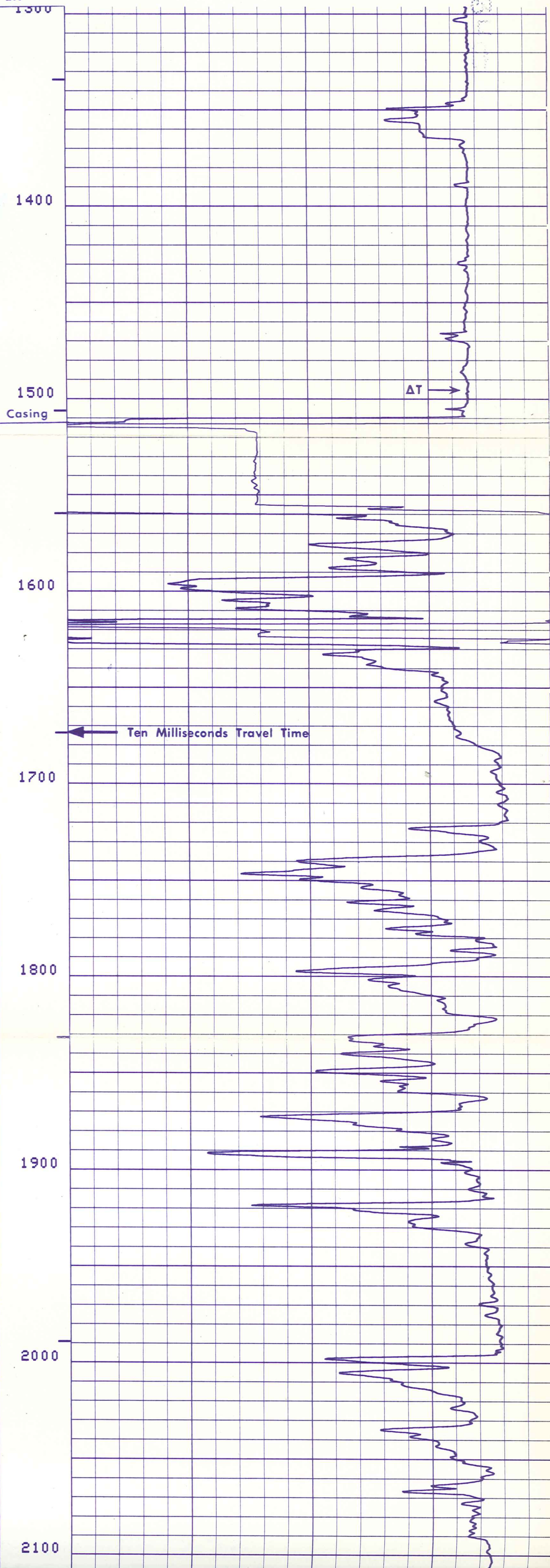
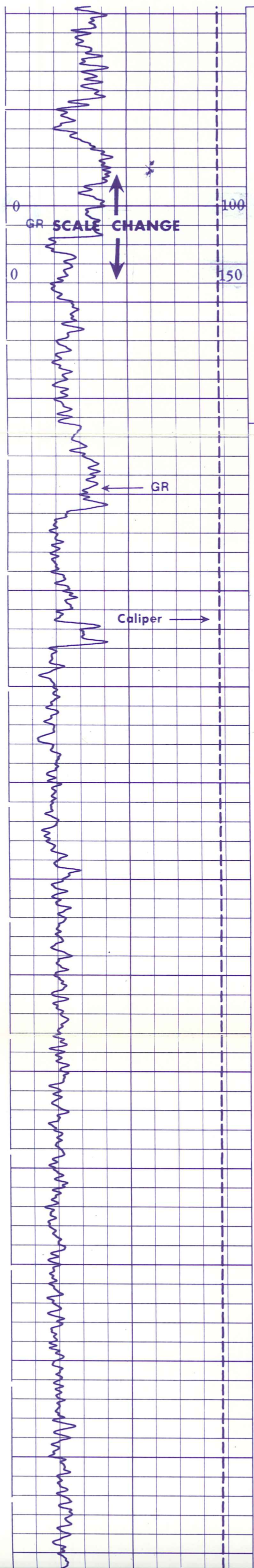
SCALE CHANGES					
Type Log	Depth	Scale Up Hole	Scale Down Hole		
LOGGING DATA					
Porosity Selectors				Depth	
Δt_m	Δt_f	Cp	ϕ Scale	From	To
51.3	189	1.0	20/TRK	3551	1296
51.3	189	1	20/TRK	2691	3558
51.3	189	100	20/TRK	10122	8792
REMARKS CALIPER MAX. OPENING = 14.8 IN. RUN 2- MAX CALIPER READING 15.8 IN. INVALID INTEGRATED TRAVEL TIME AT 9560-80 DUE TO CYCLE SKIP CYCLE SKIP BELOW 9300 CORRECTED TO REPEAT RUN3-GR PACKUP SCALE 150-300 Velocity (ft/sec) = $\frac{1,000,000}{\Delta t_f}$ Interval Transit Time (microseconds per foot)					

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 interpretations, 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 Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

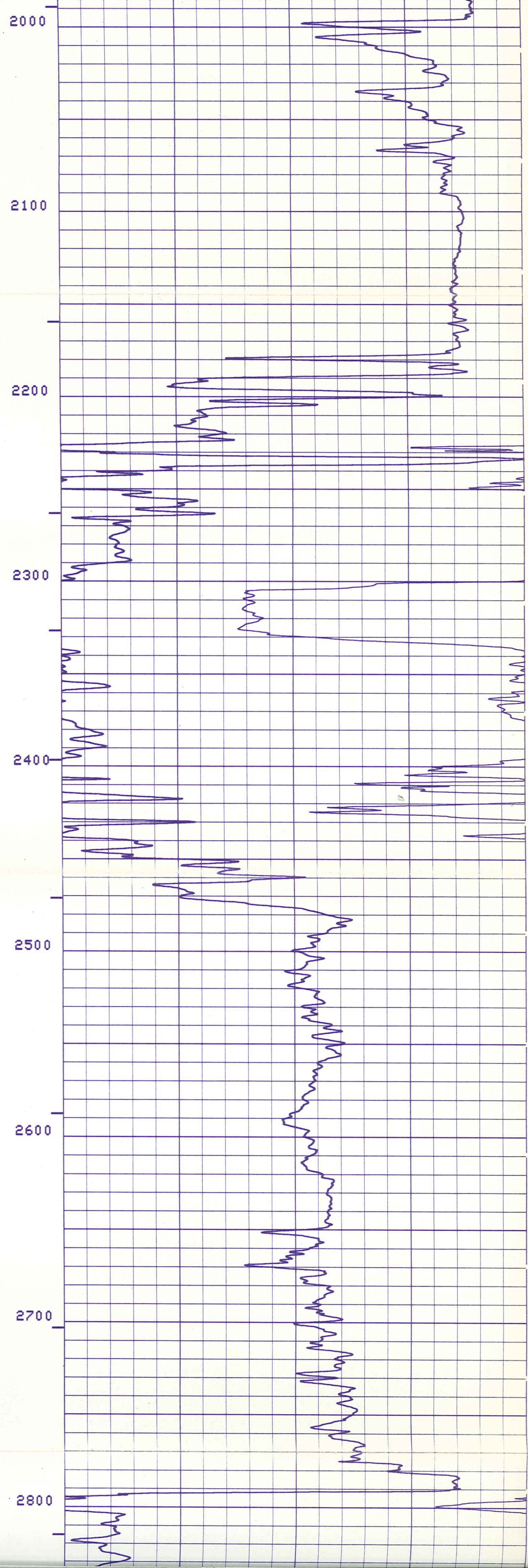
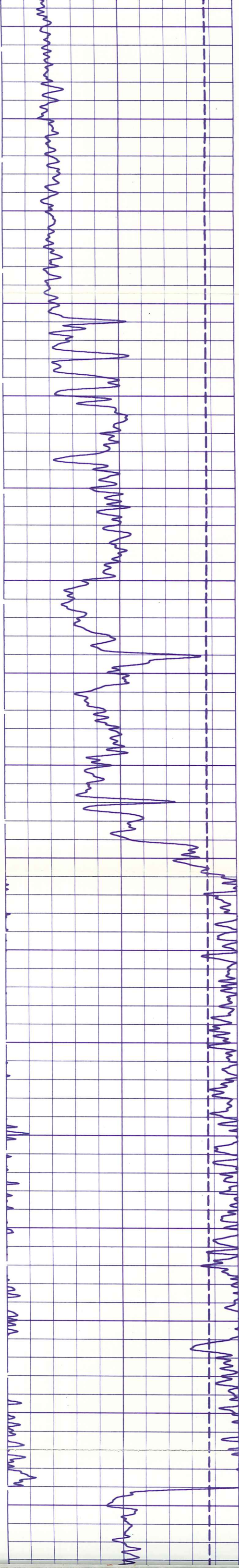
4			
4			
4			
	CALI (IN)	DT (US/F)	
6.000	16.00	140.0	40.00
	GR (GAPI)	DT (US/F)	
0.0	100.0	240.0	140.0

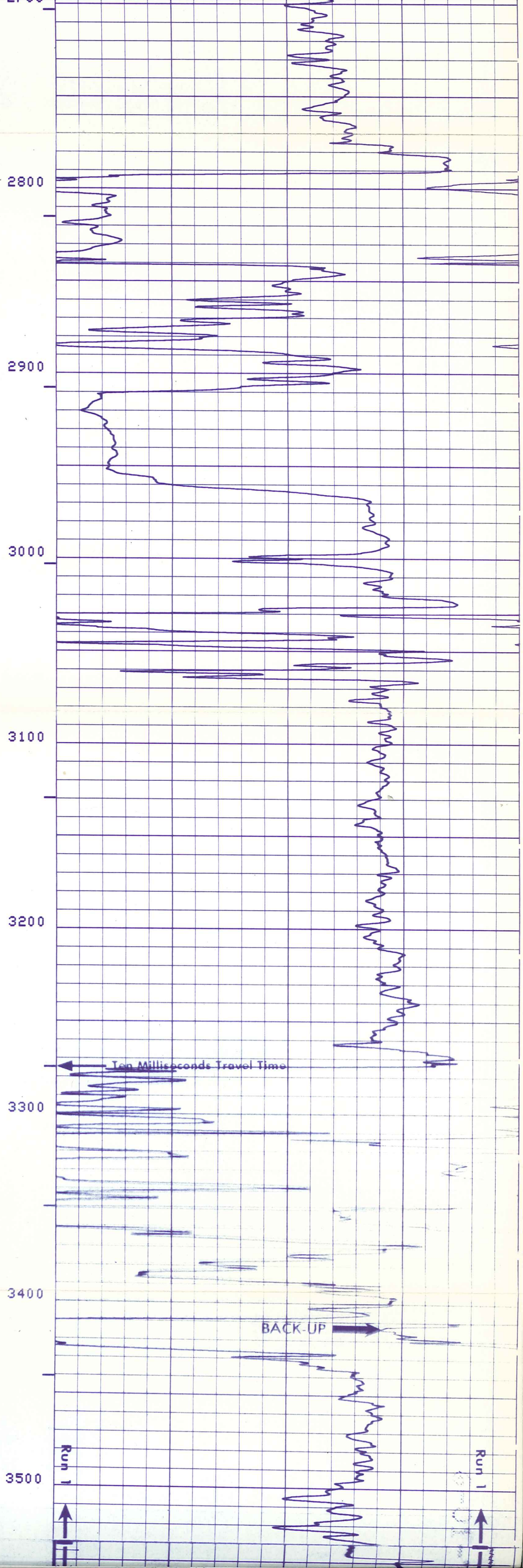
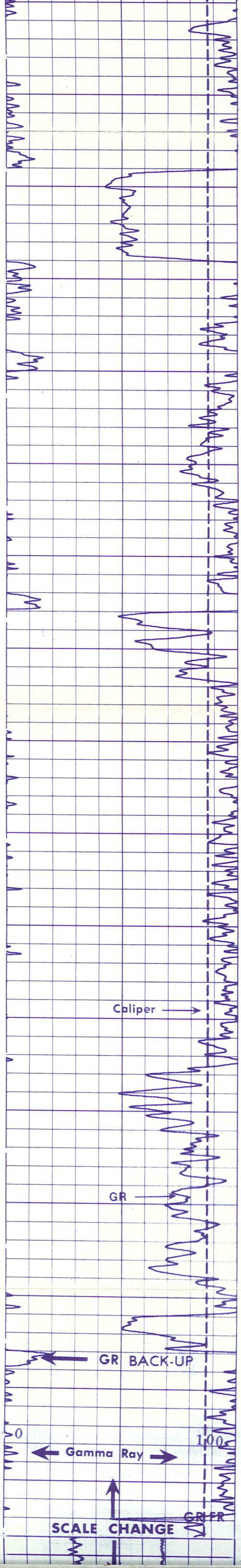


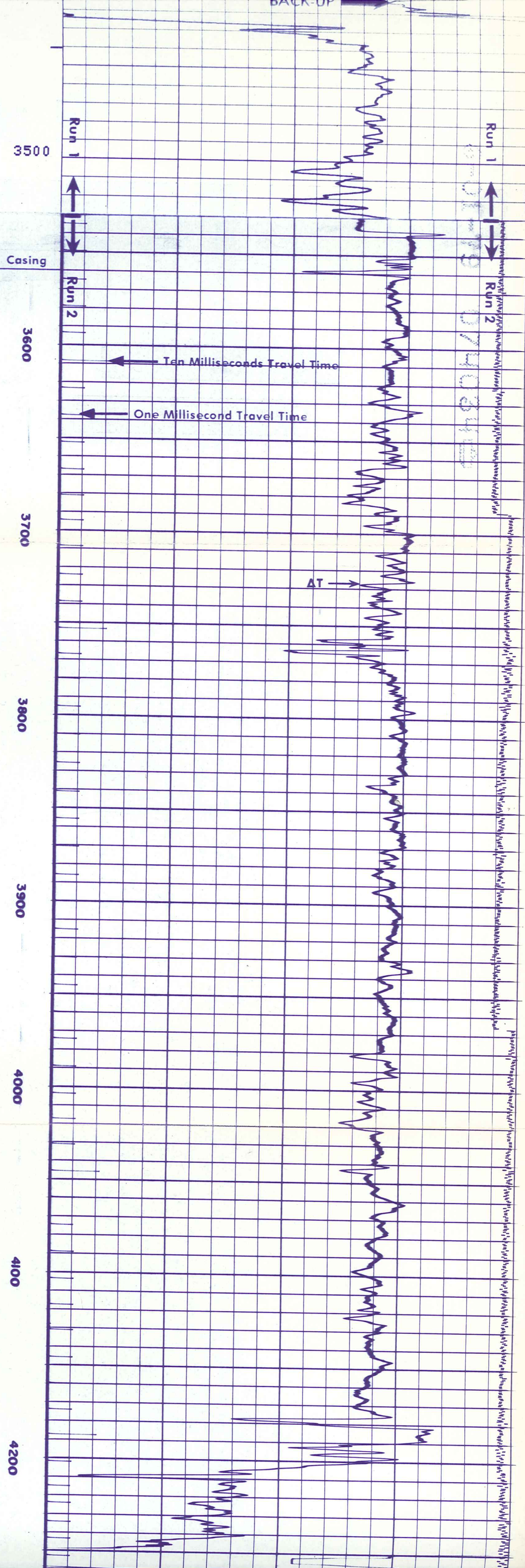
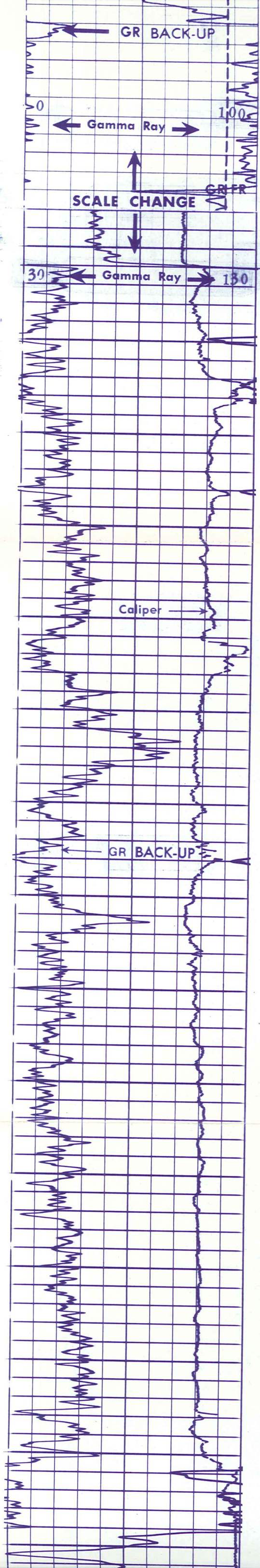
LR 66



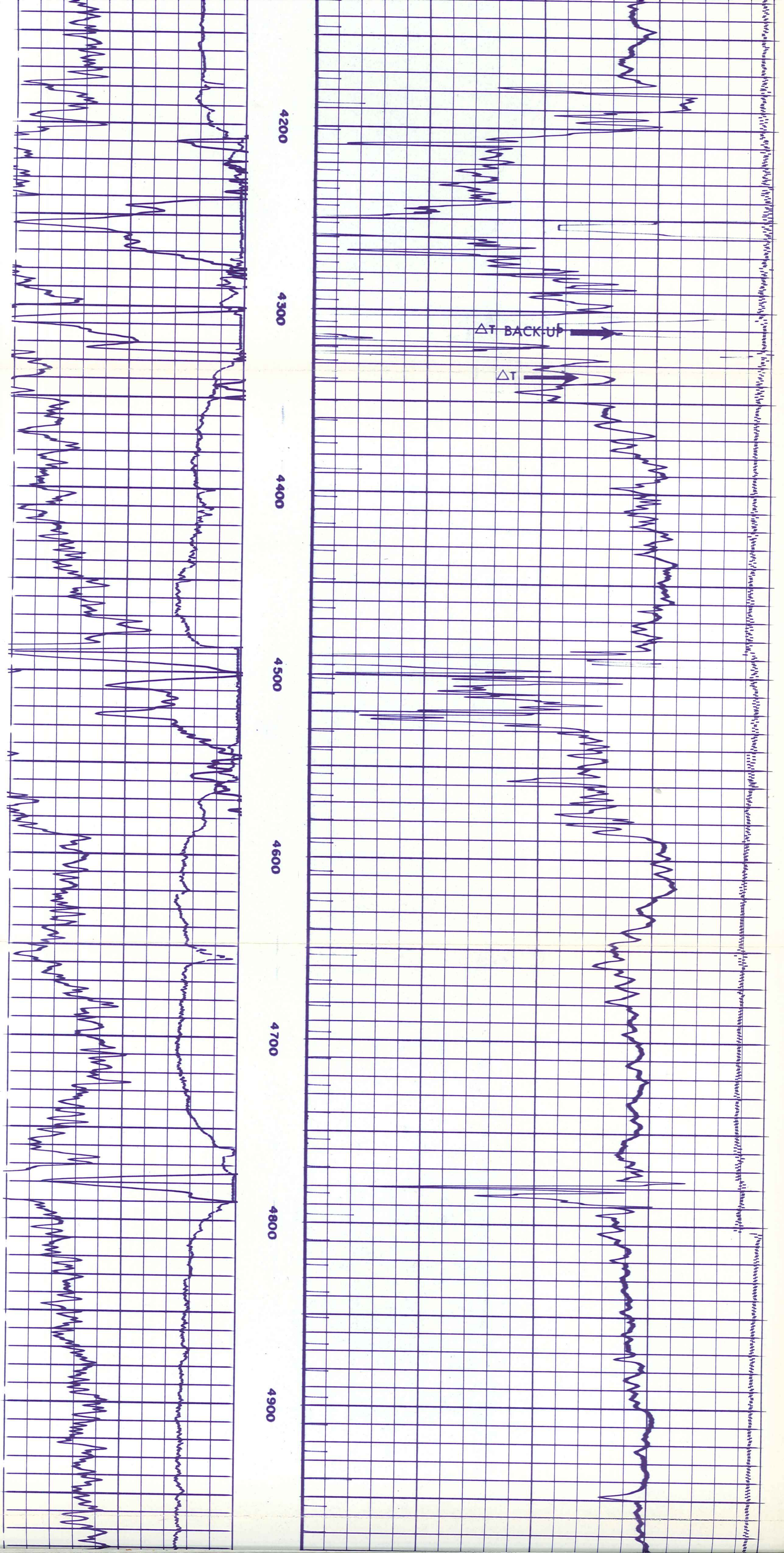
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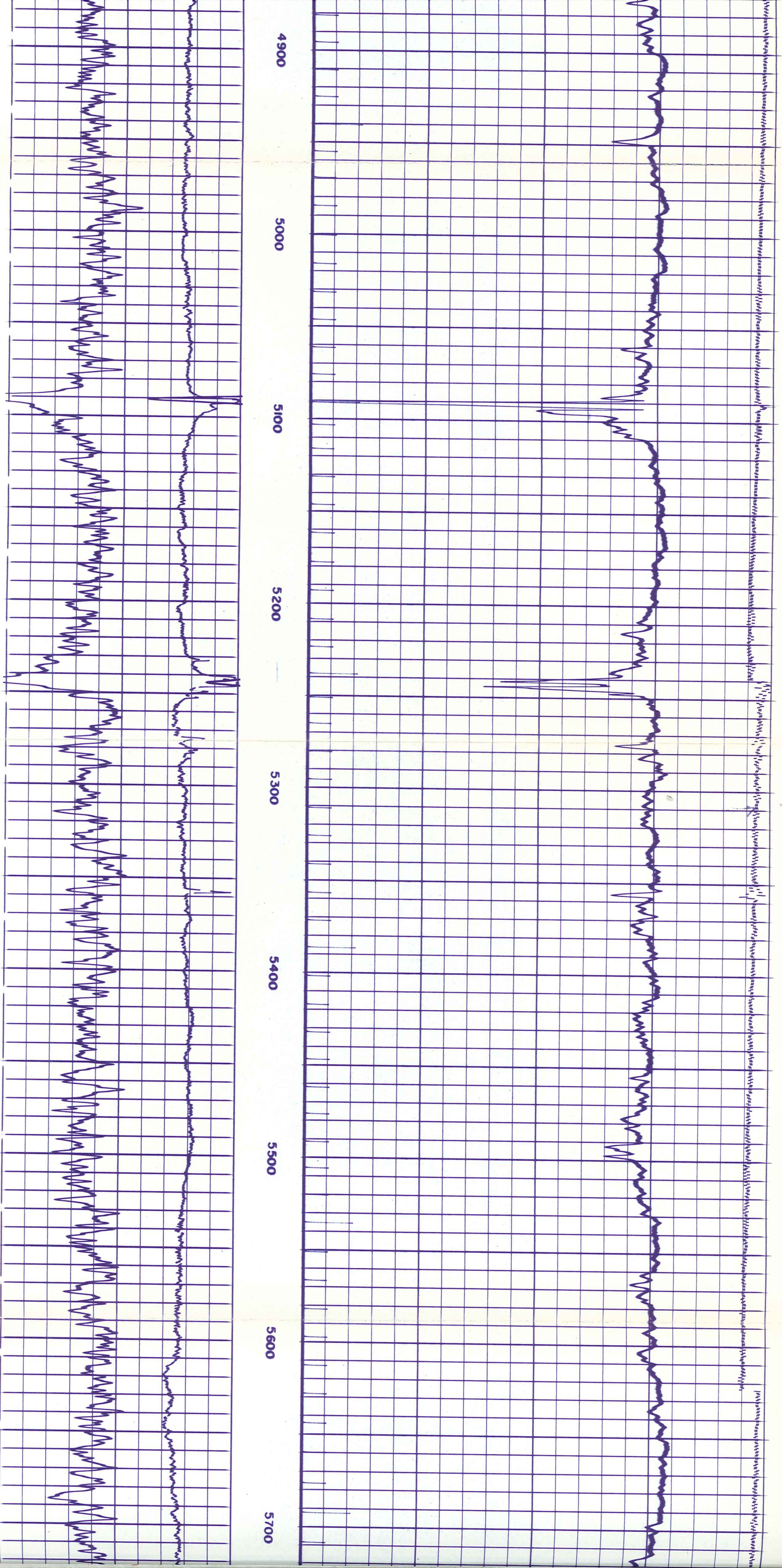


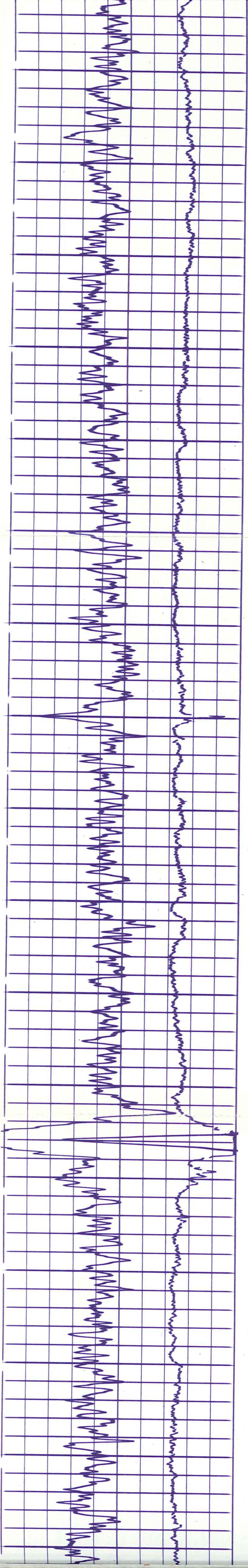




07402410







5700

5800

5900

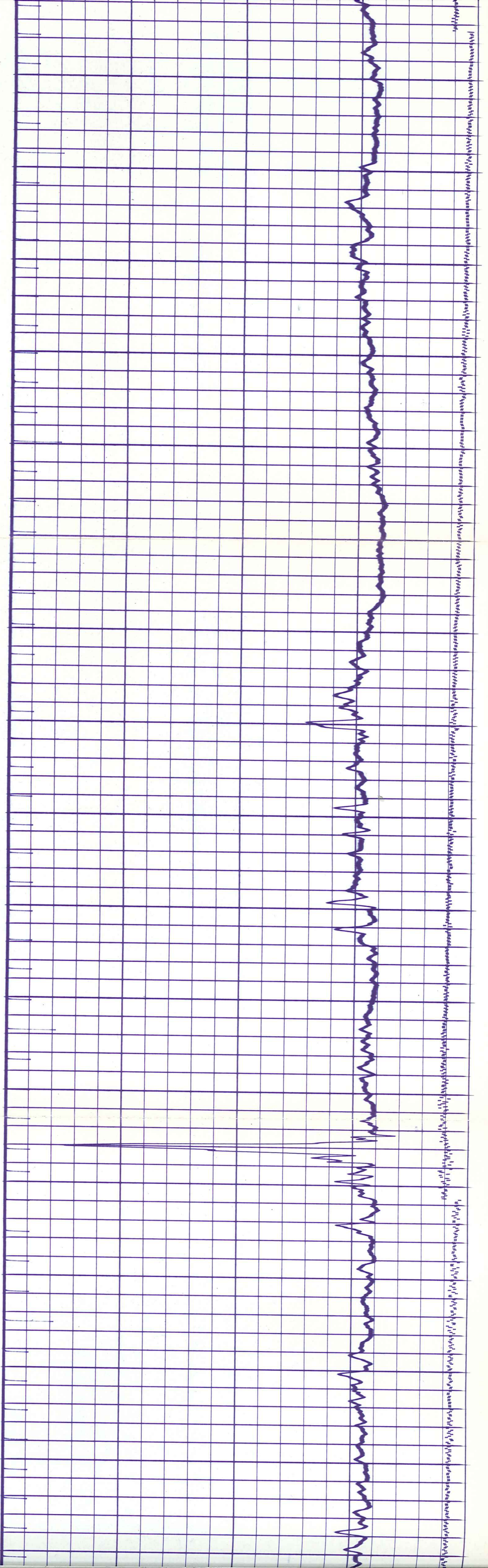
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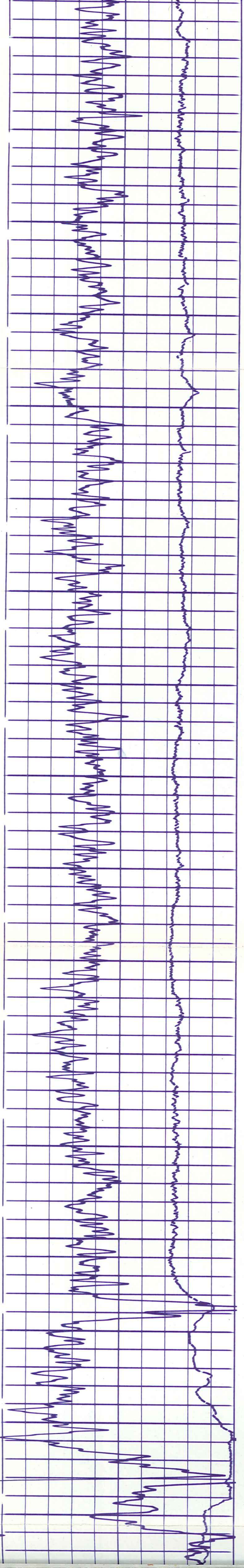
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6200

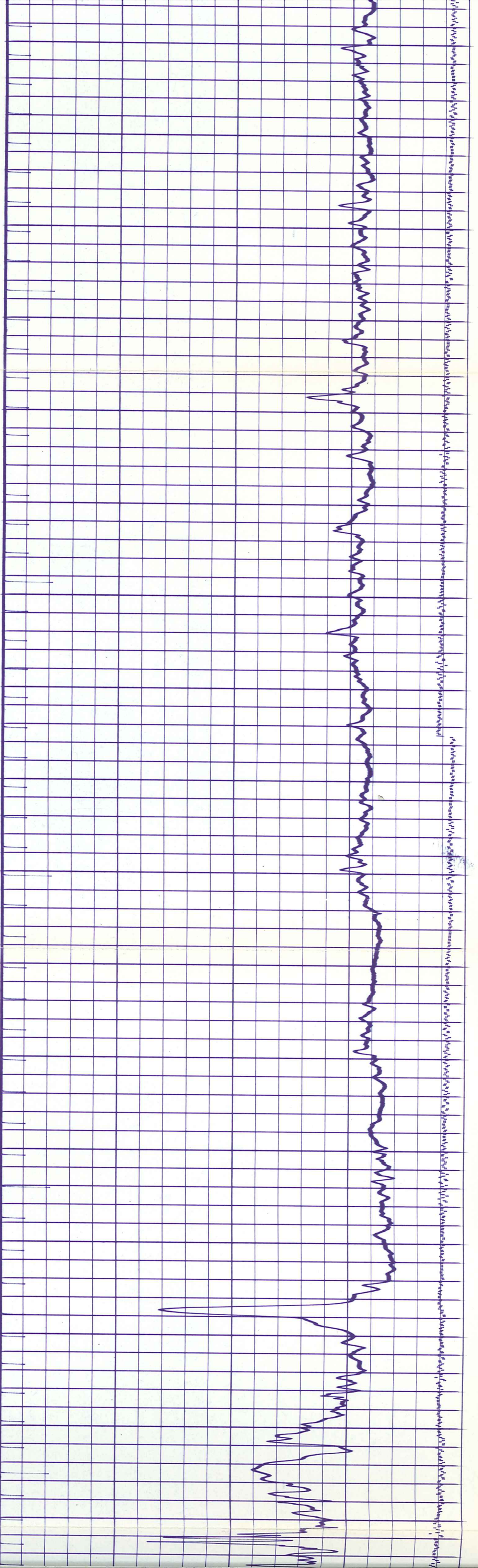
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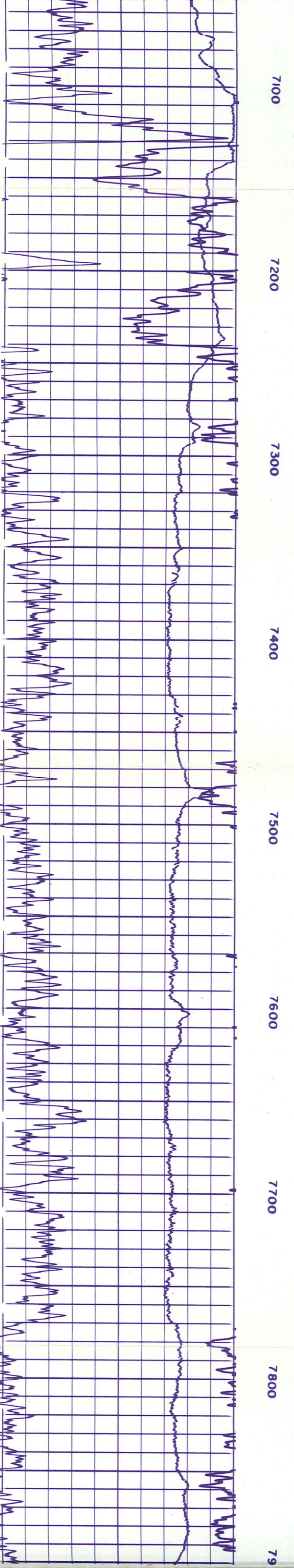
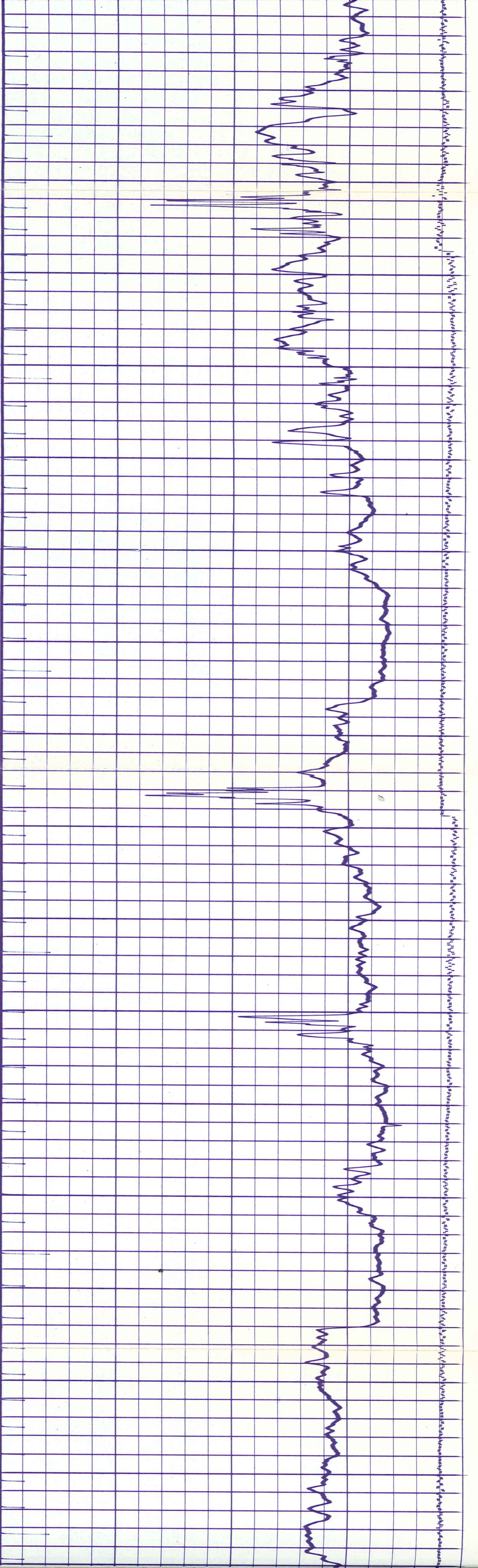
6400





6400 6500 6600 6700 6800 6900 7000 7100





7100

7200

7300

7400

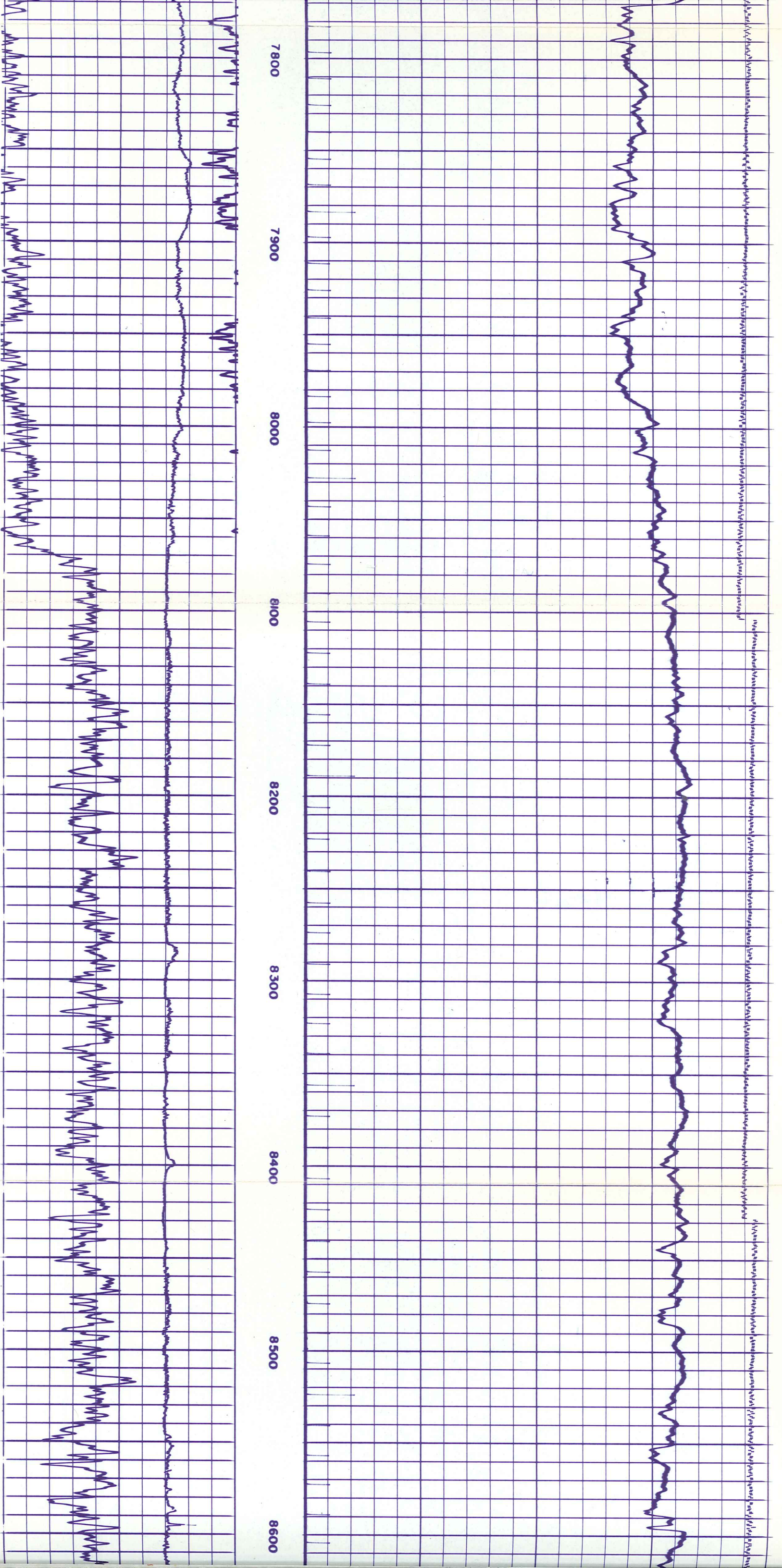
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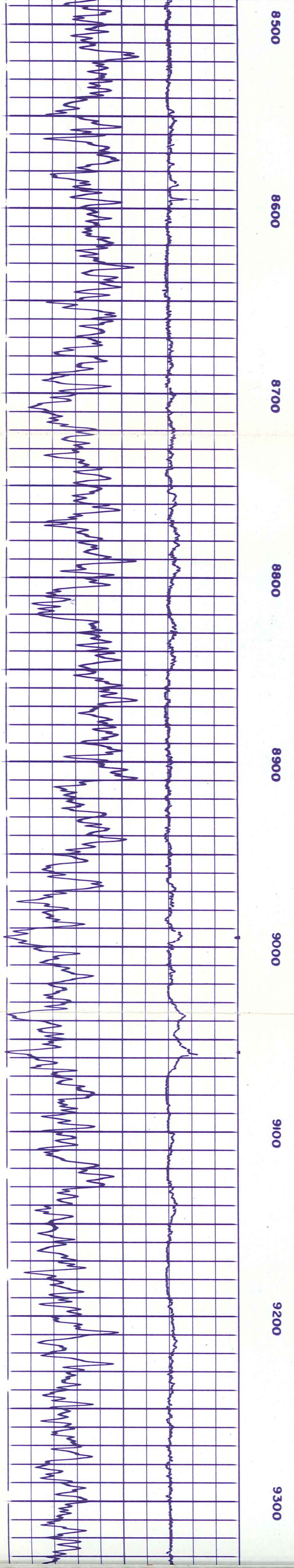
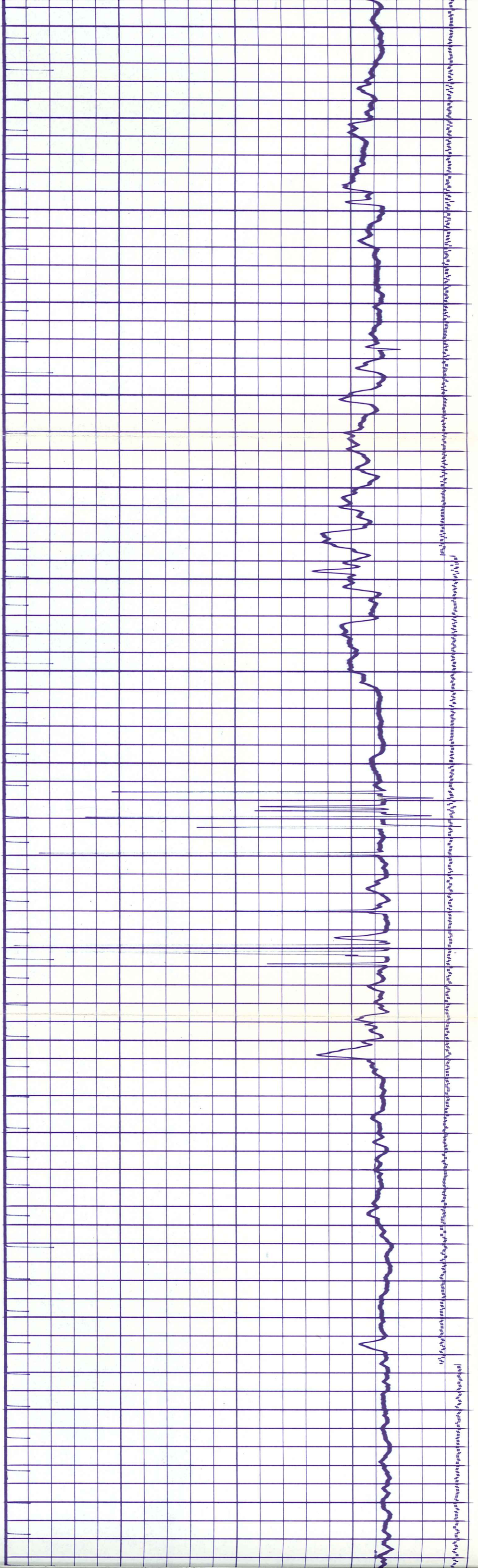
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7700

7800

79





8500

8600

8700

8800

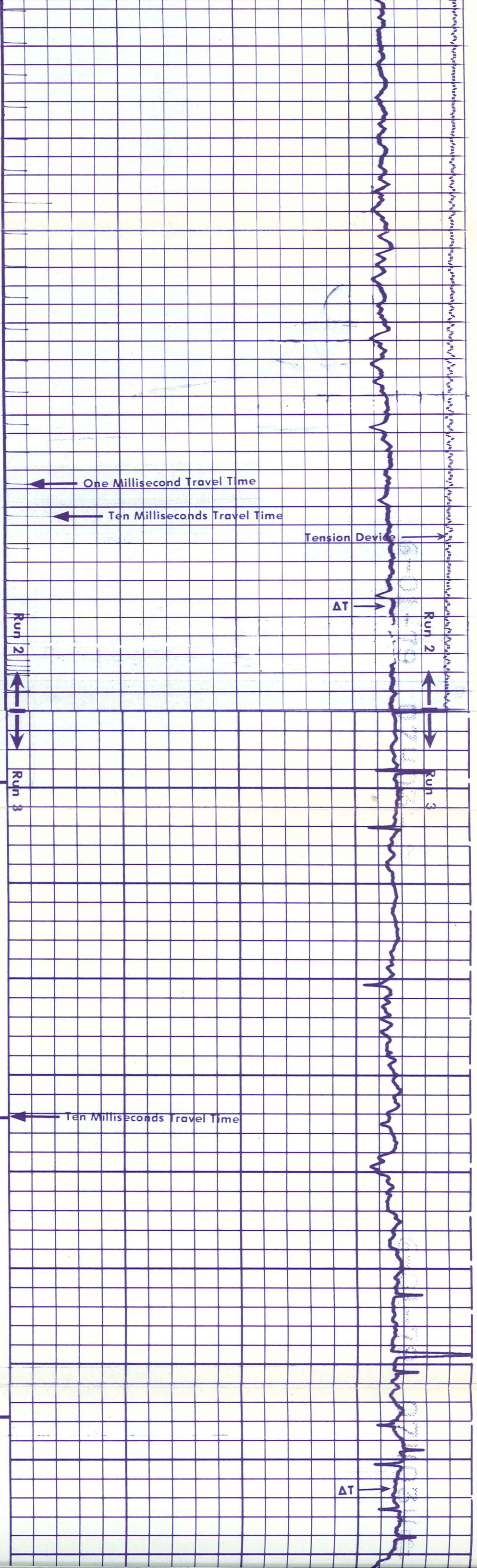
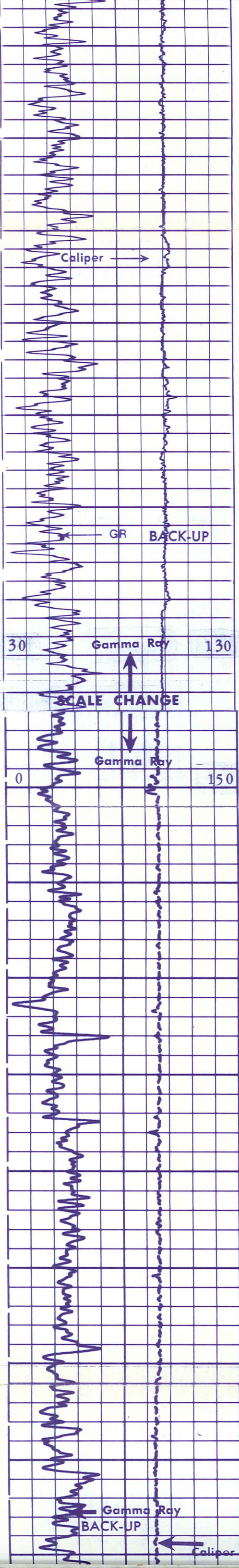
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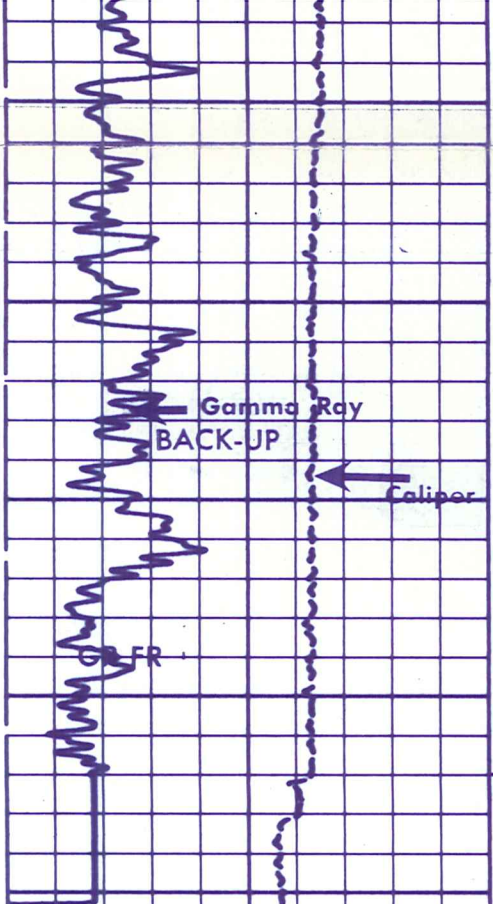
9000

9100

9200

9300

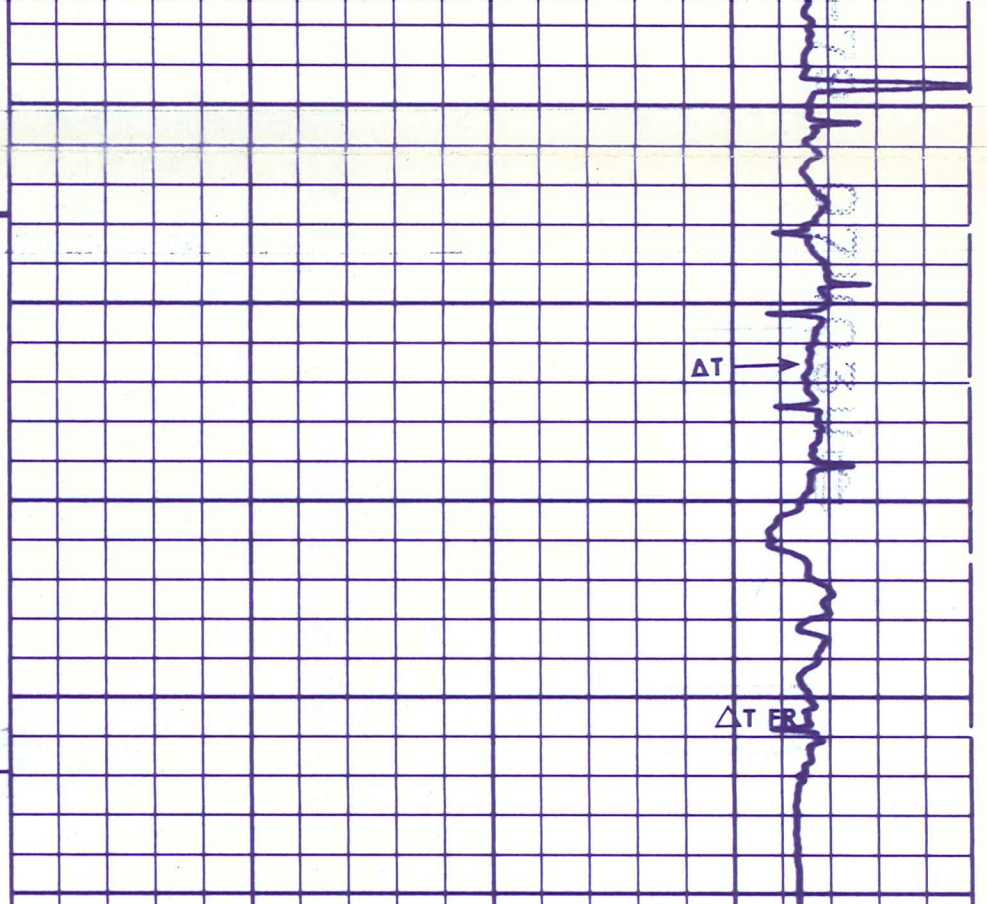




10000

10100

FR



AT

AT ER

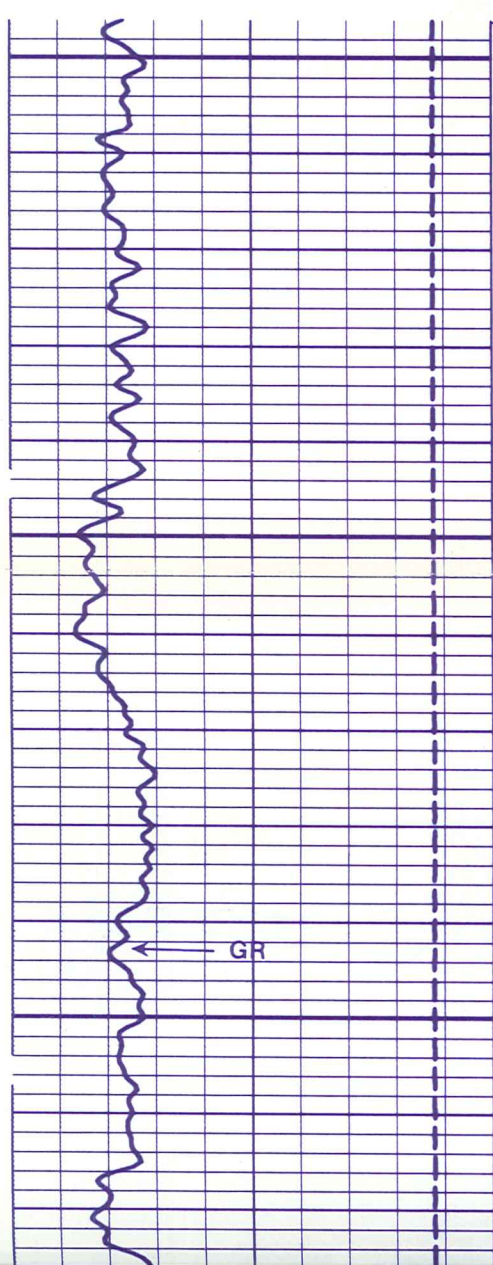
CALI(IN)	
6.000	16.00
GR (GAPI)	
0.0	150.0

DT (US/F)	
140.0	40.00
DT (US/F)	
240.0	140.0

CALI(IN)	
6.000	16.00
GR (GAPI)	
0.0	100.0

TENS(LB)	
10000.	0.0
DT (US/F)	
140.0	40.00
DT (US/F)	
240.0	140.0
SPHI()	
0.3000	0.100

4
4
4
4
6
6



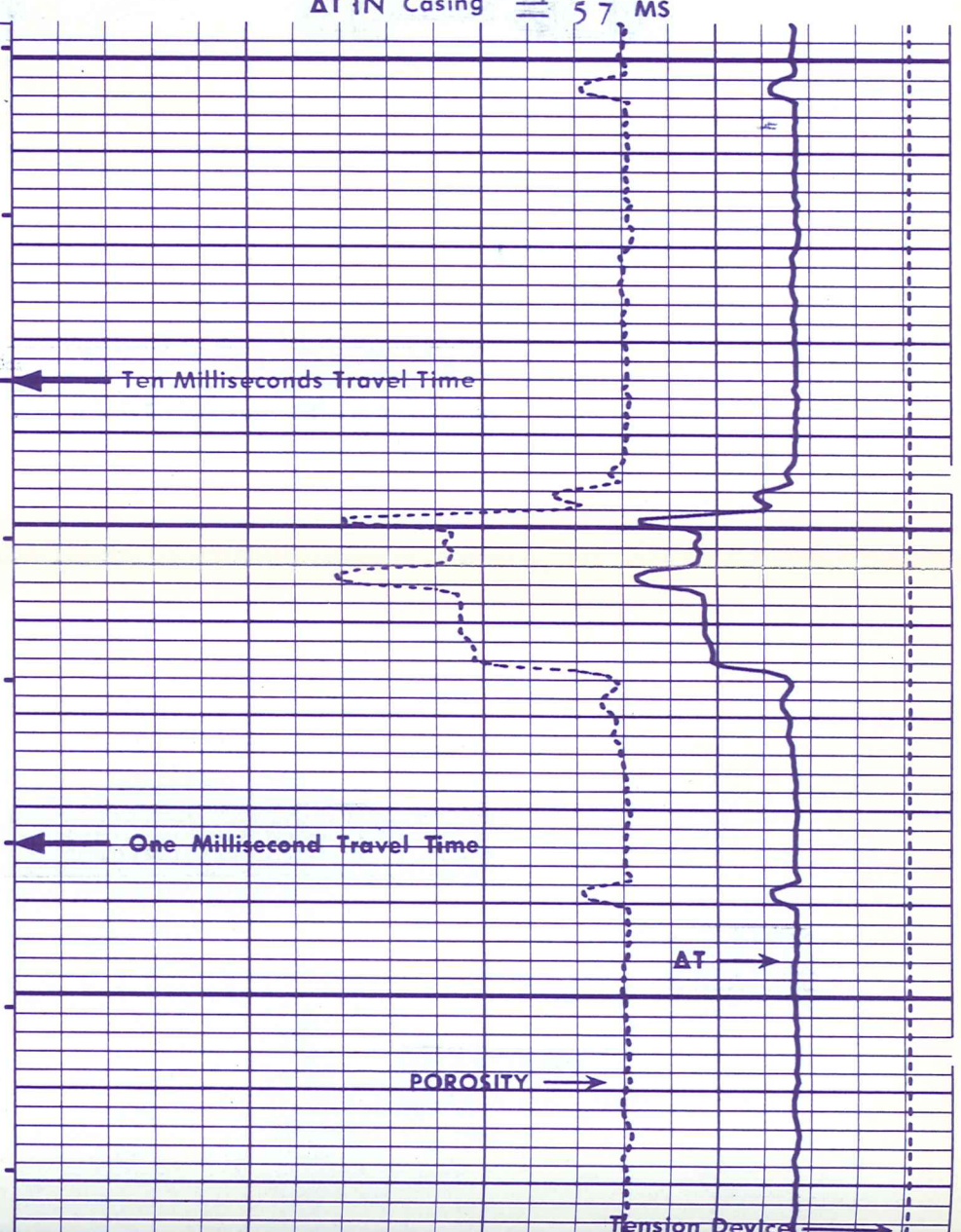
LR

1300

1400

Run 1

AT IN Casing = 57 MS



Ten Milliseconds Travel Time

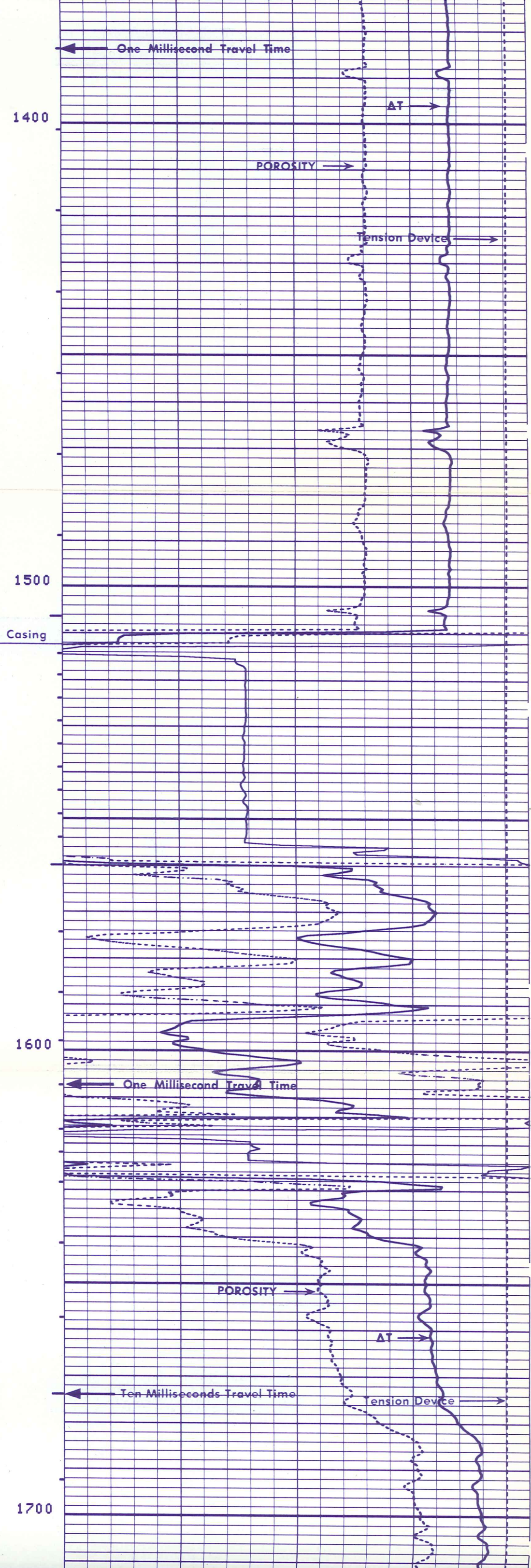
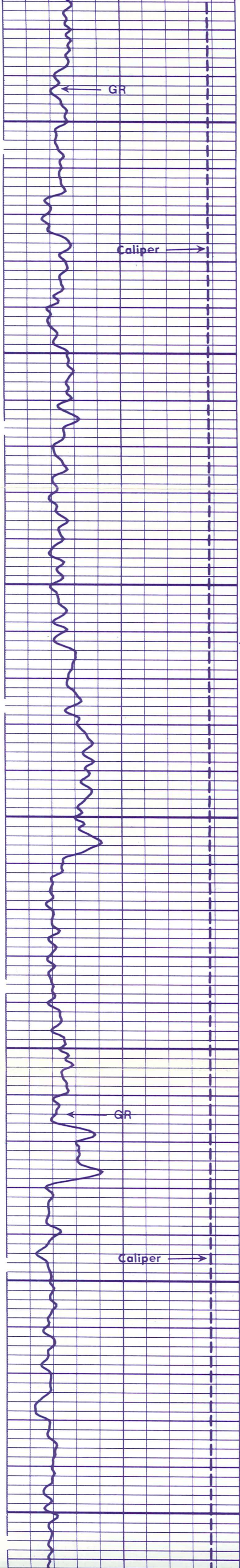
One Millisecond Travel Time

AT

POROSITY

Tension Device

SPHIC 61-10-9



1400

1500

Casing

1600

1700

One Millisecond Travel Time

GR

Caliper

ΔT

POROSITY

Tension Device

GR

Caliper

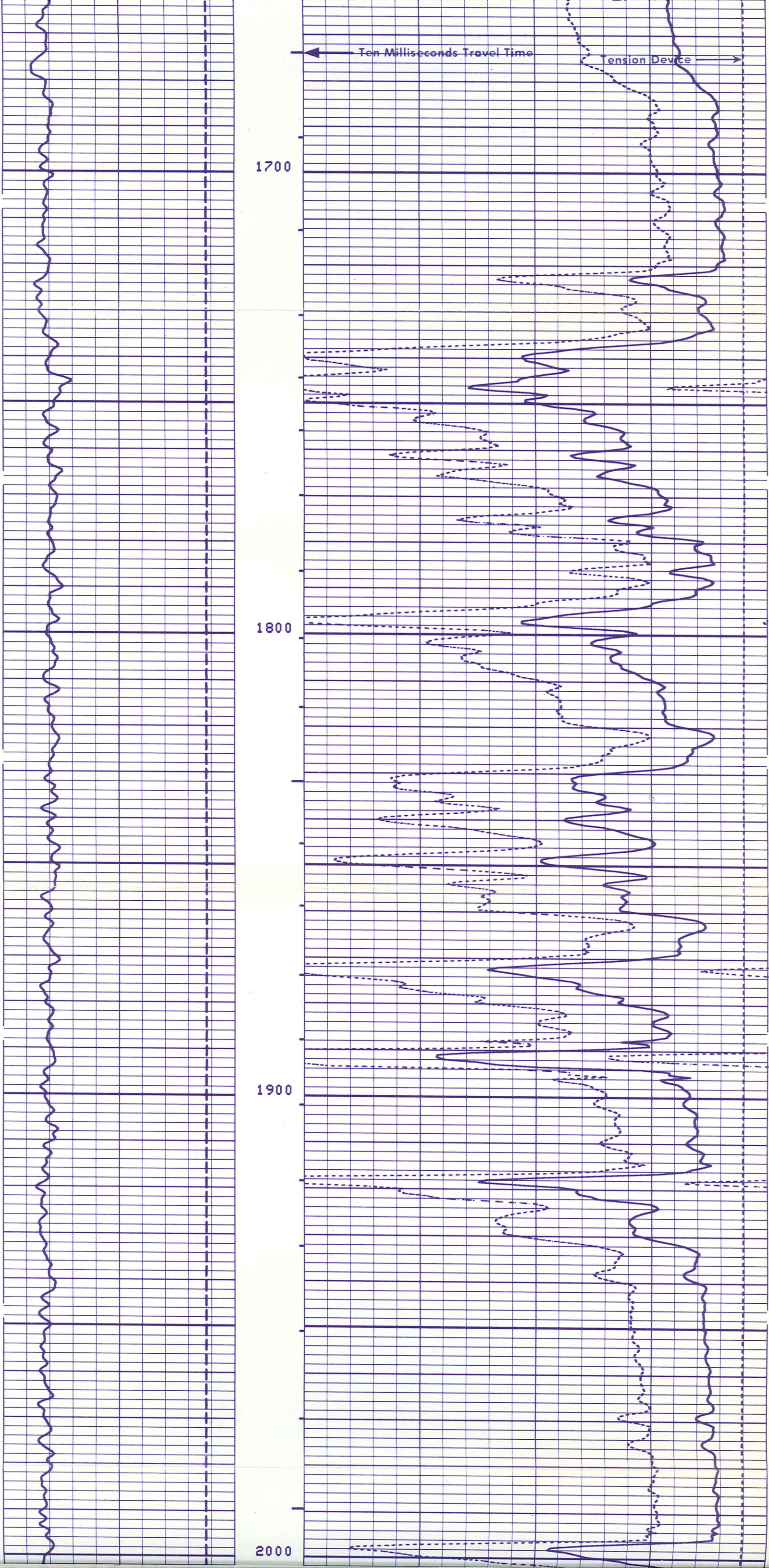
POROSITY

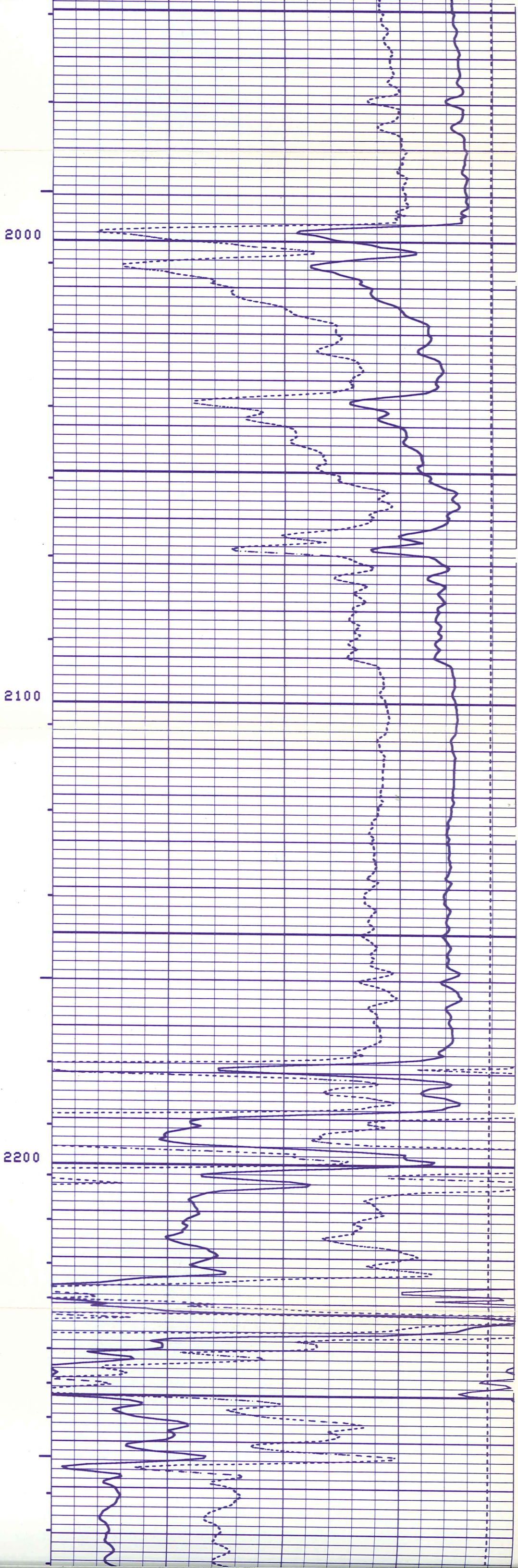
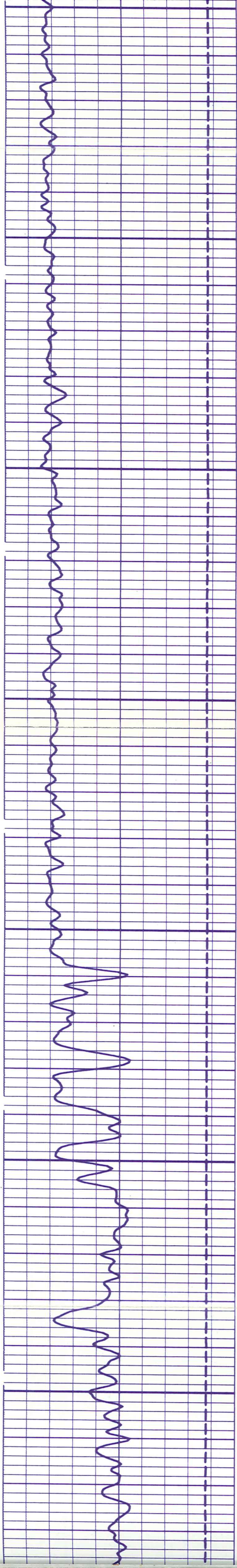
ΔT

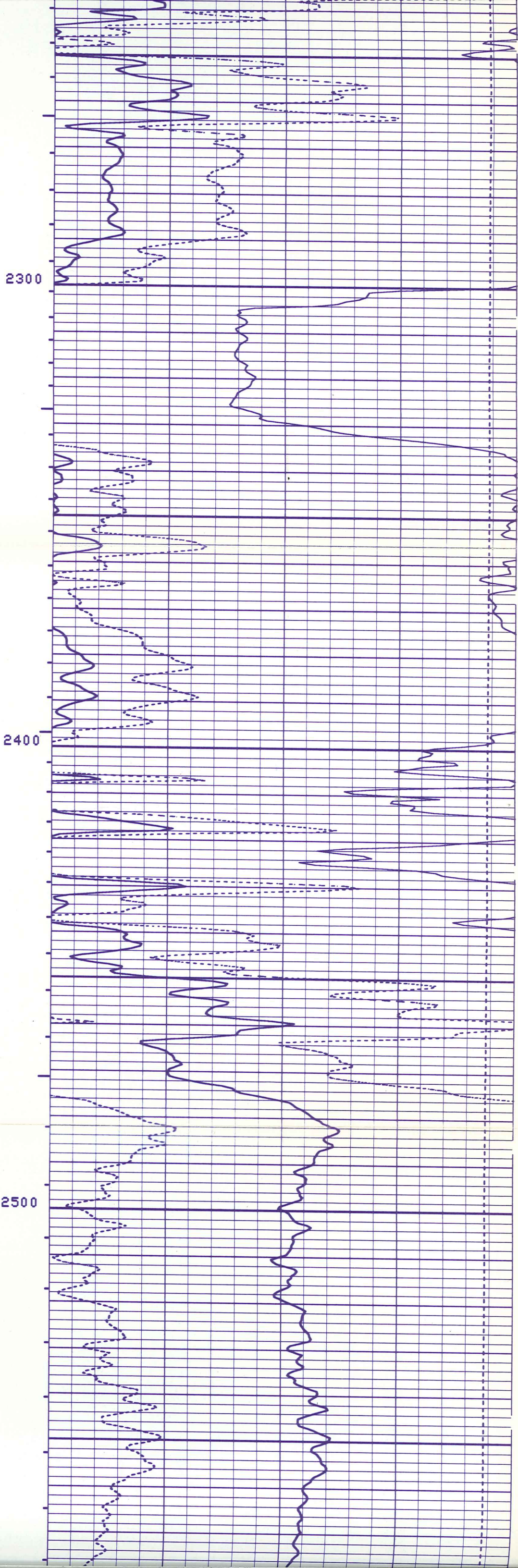
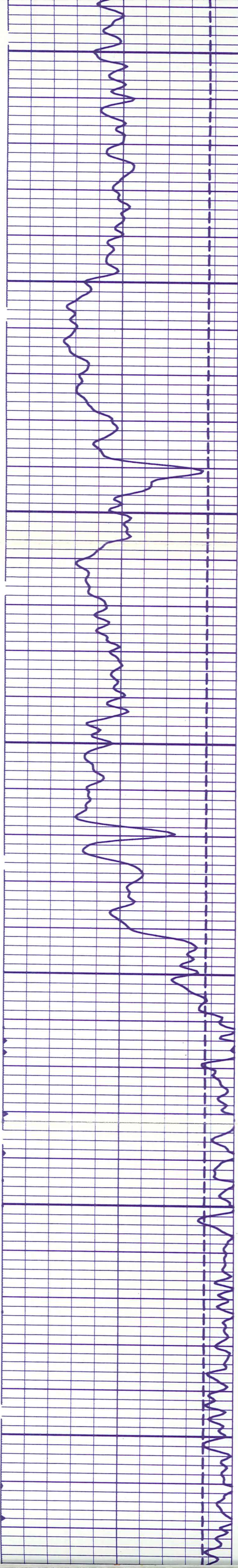
Tension Device

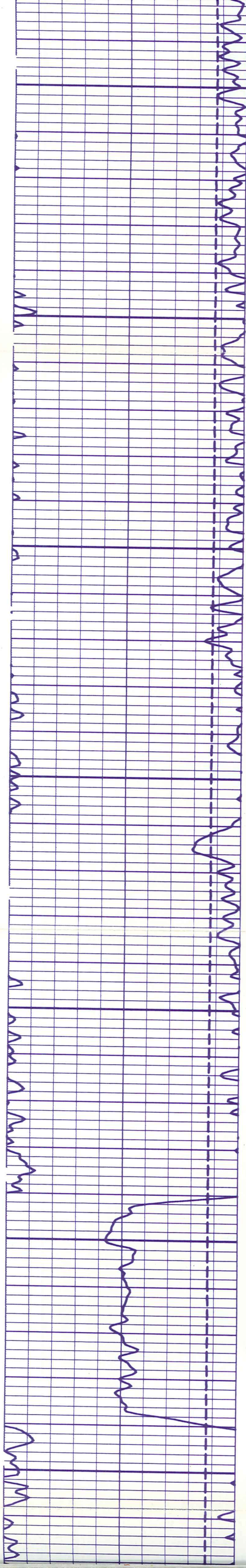
One Millisecond Travel Time

Ten Milliseconds Travel Time





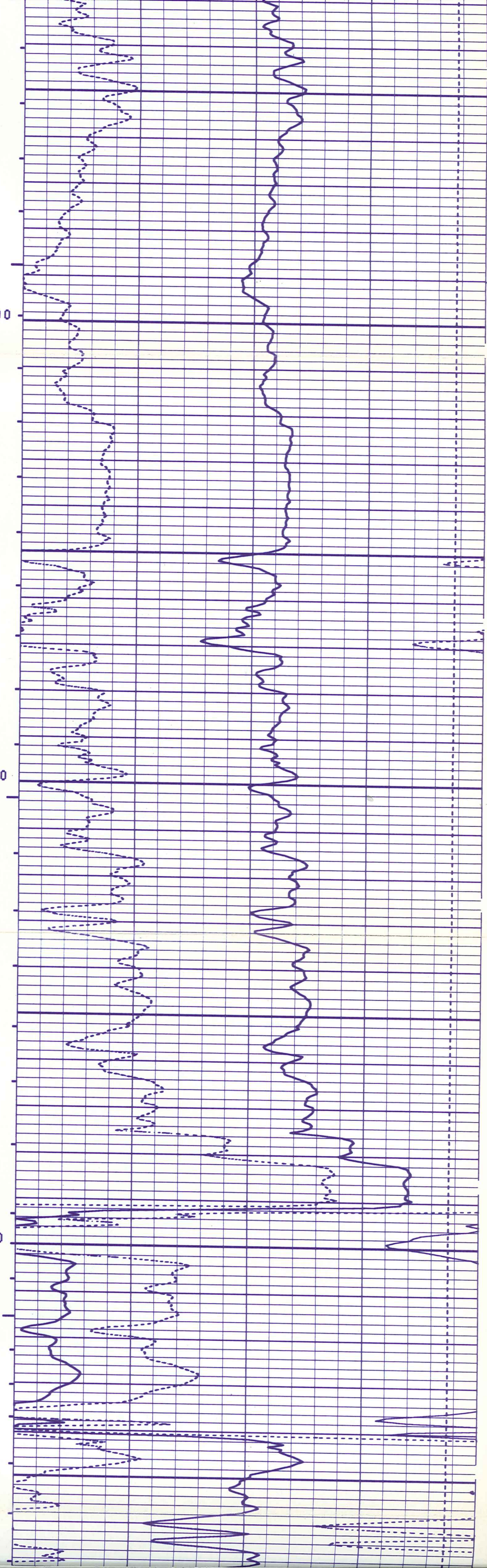


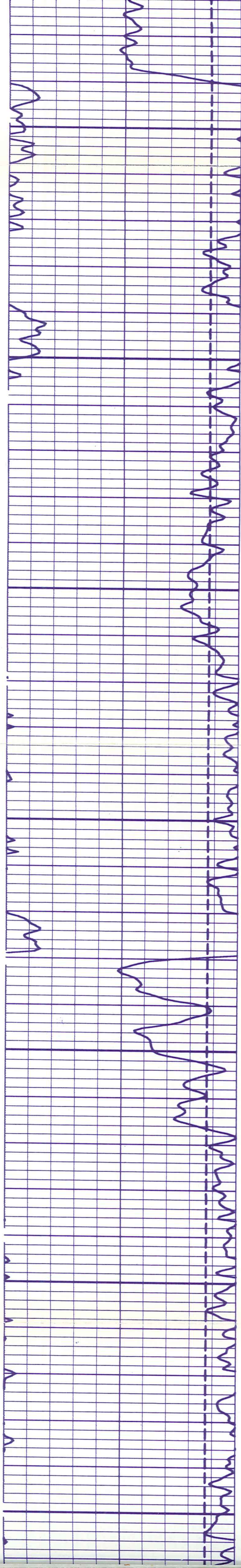


2600

2700

2800

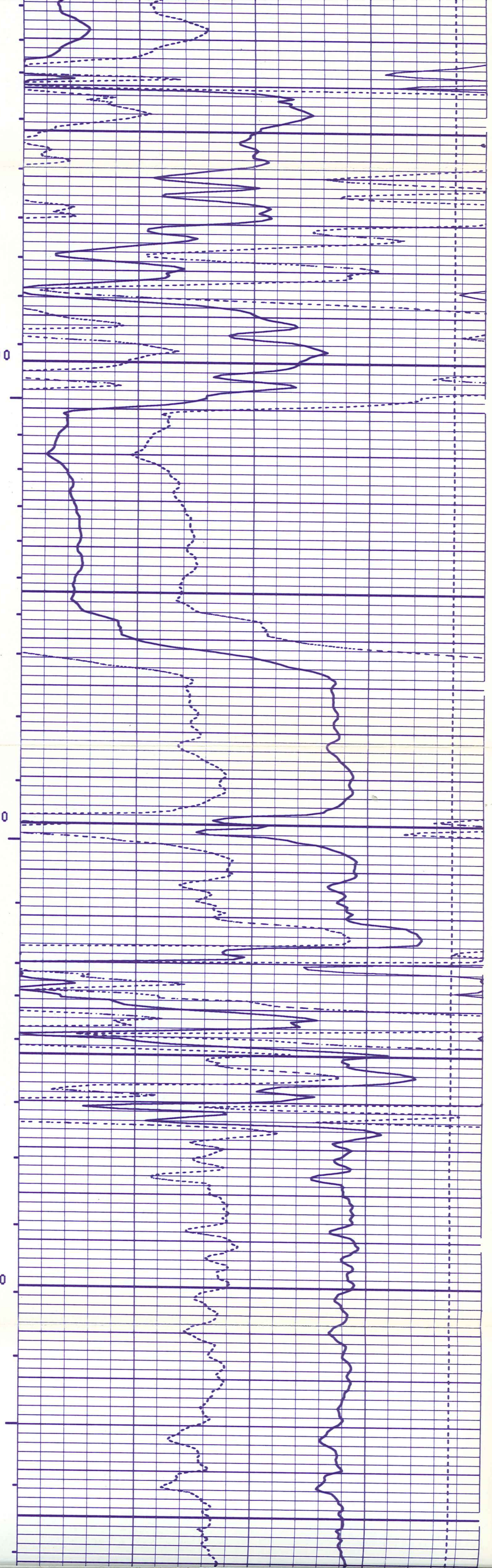


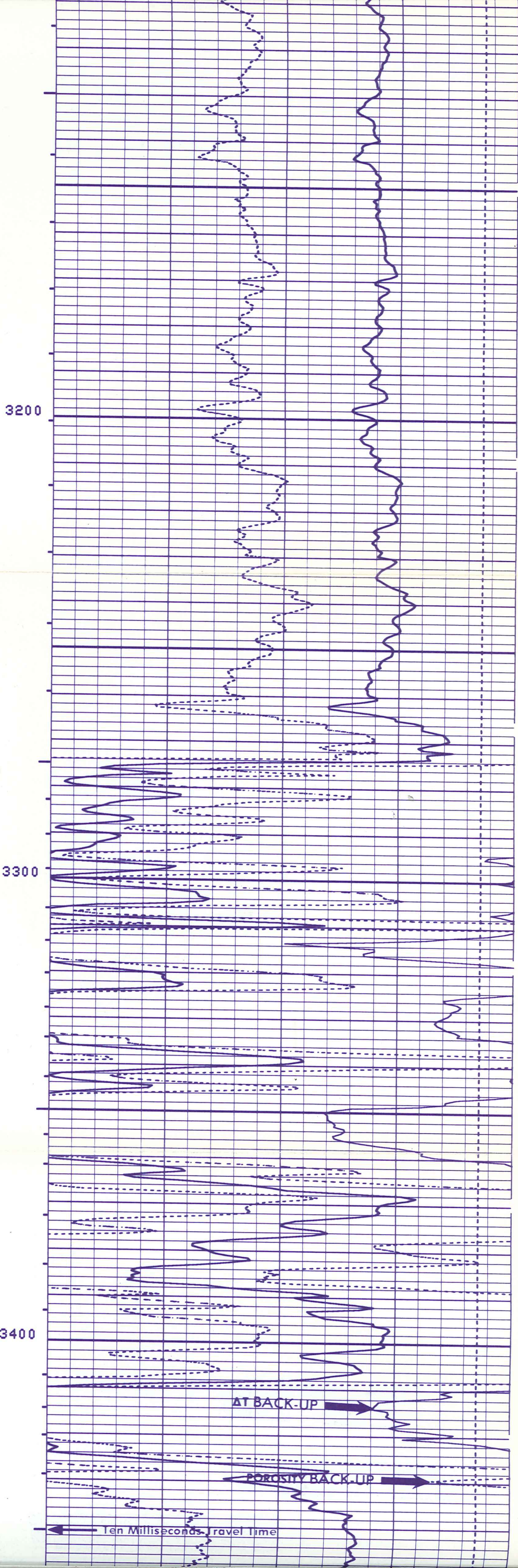
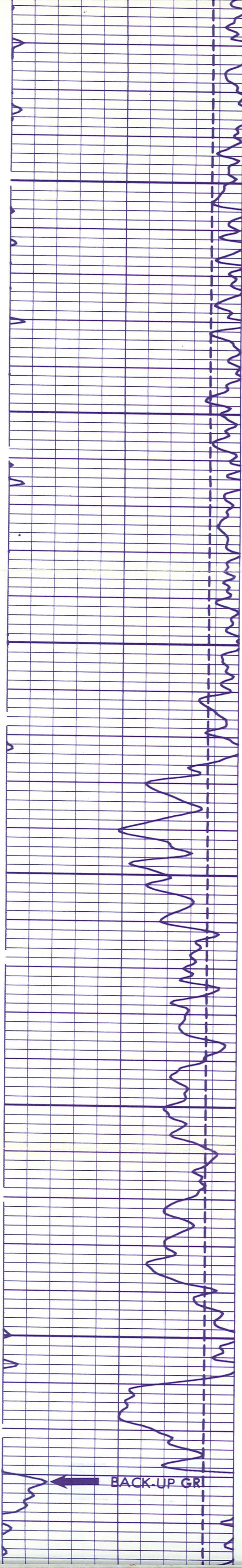


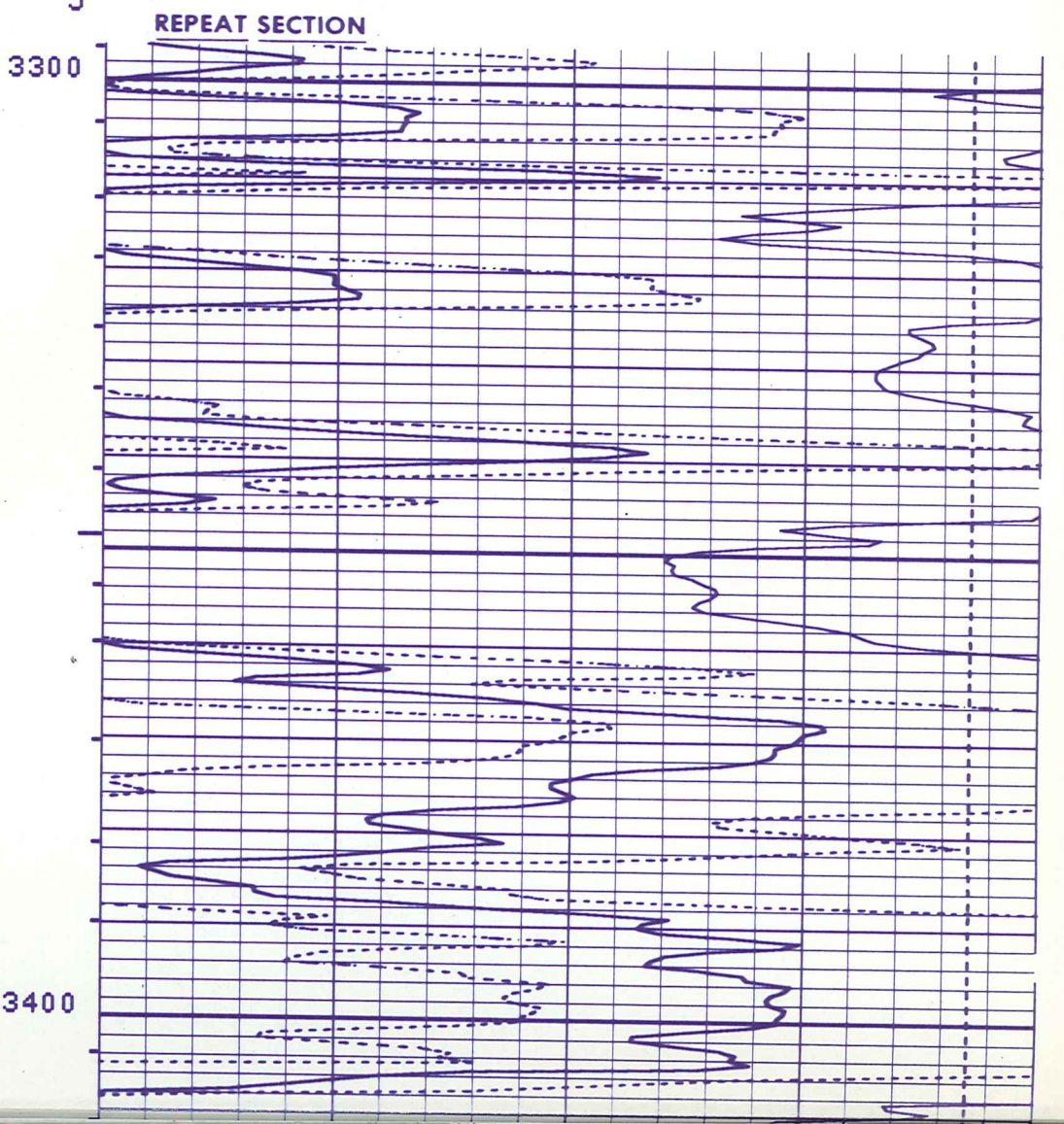
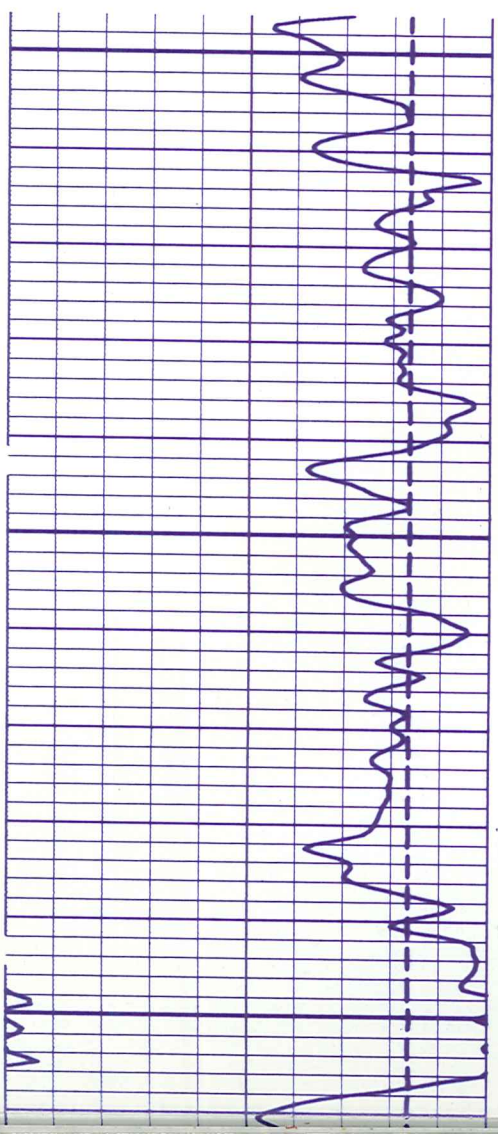
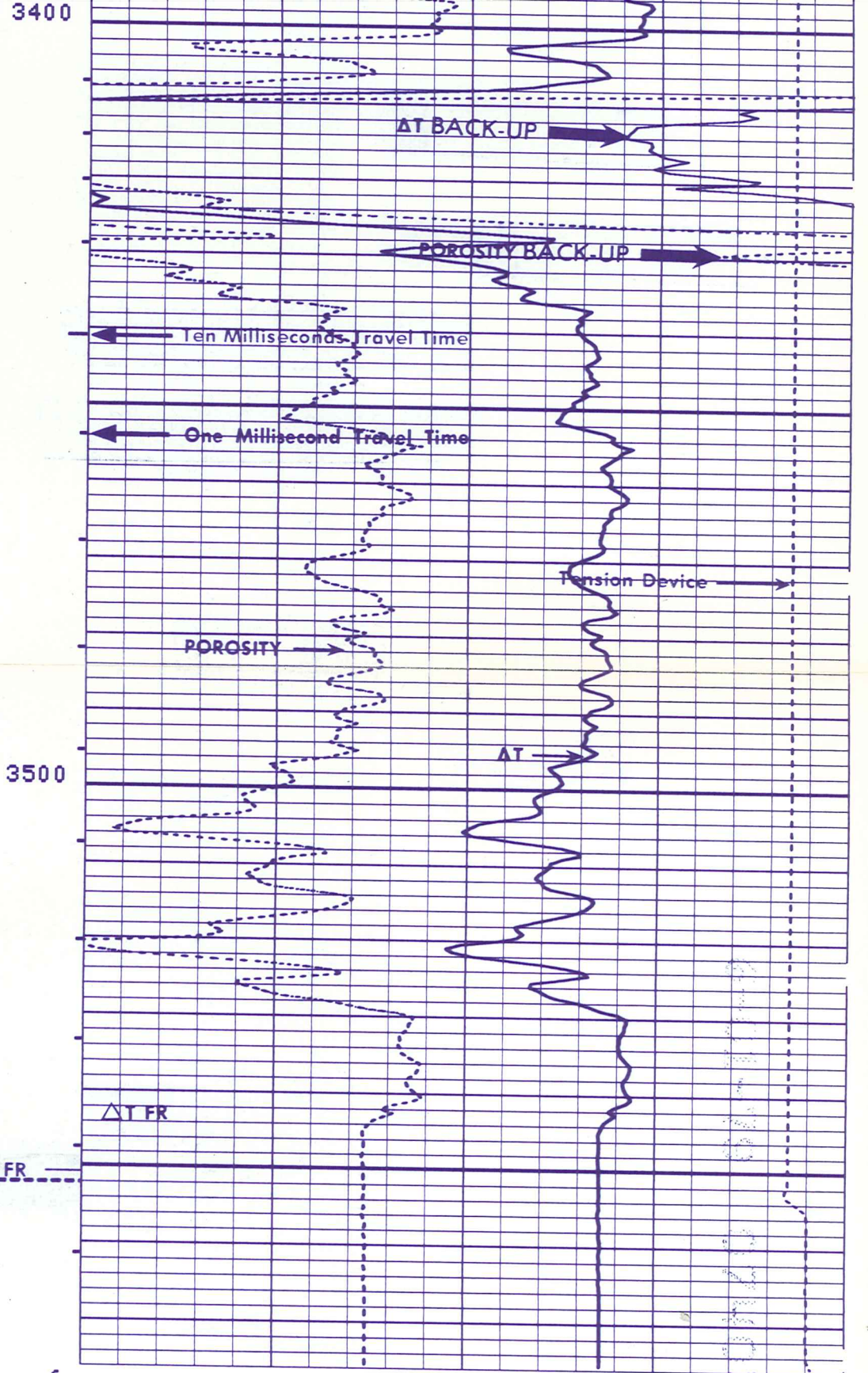
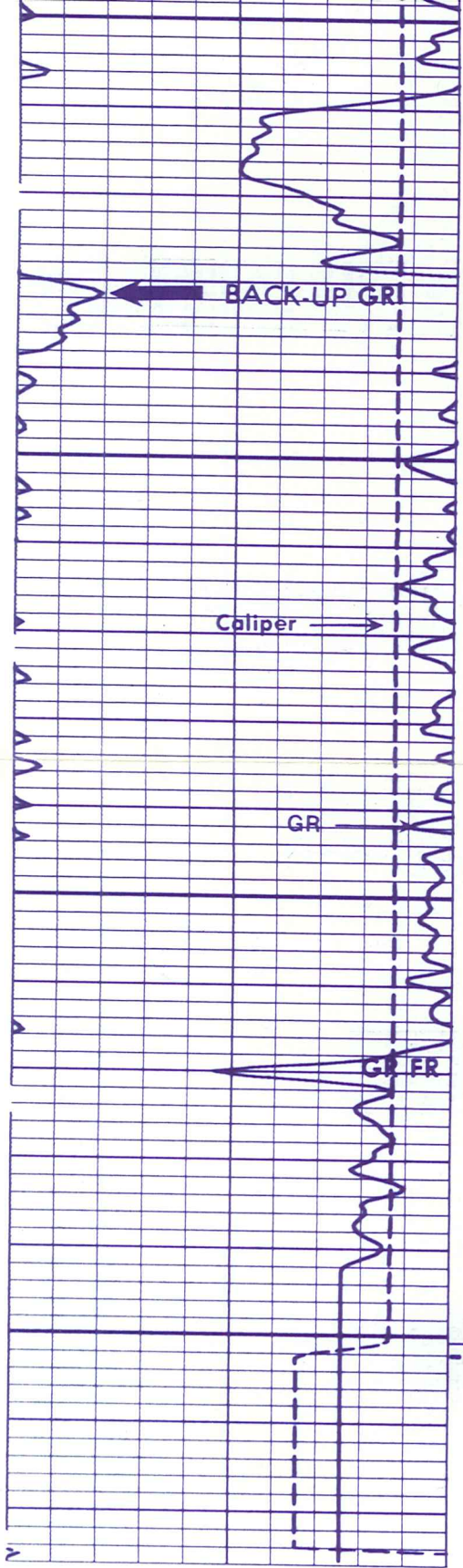
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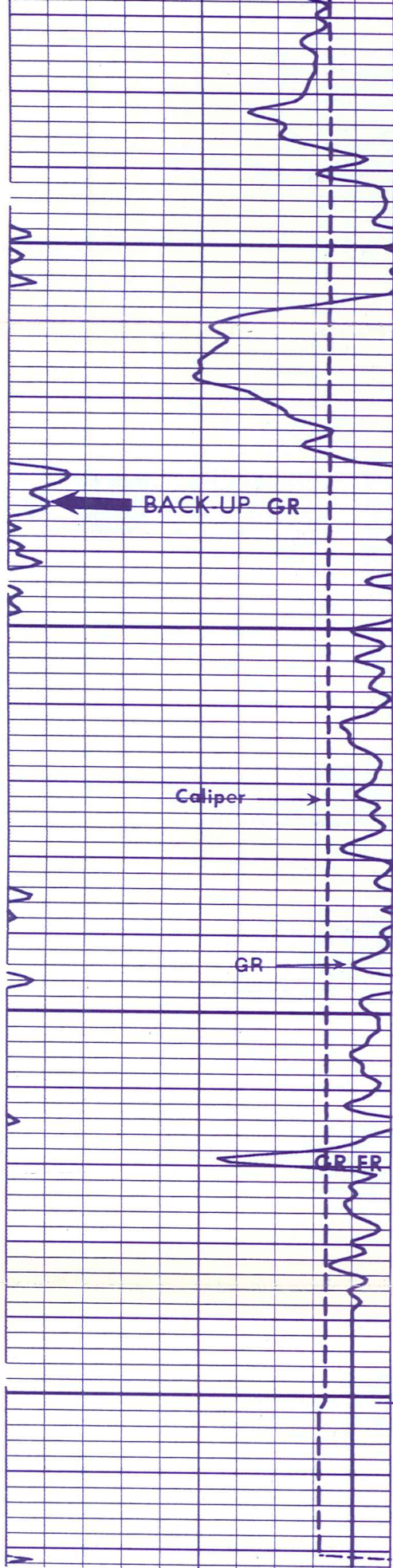
3000

3100









3400

BACK-UP GR

Caliper

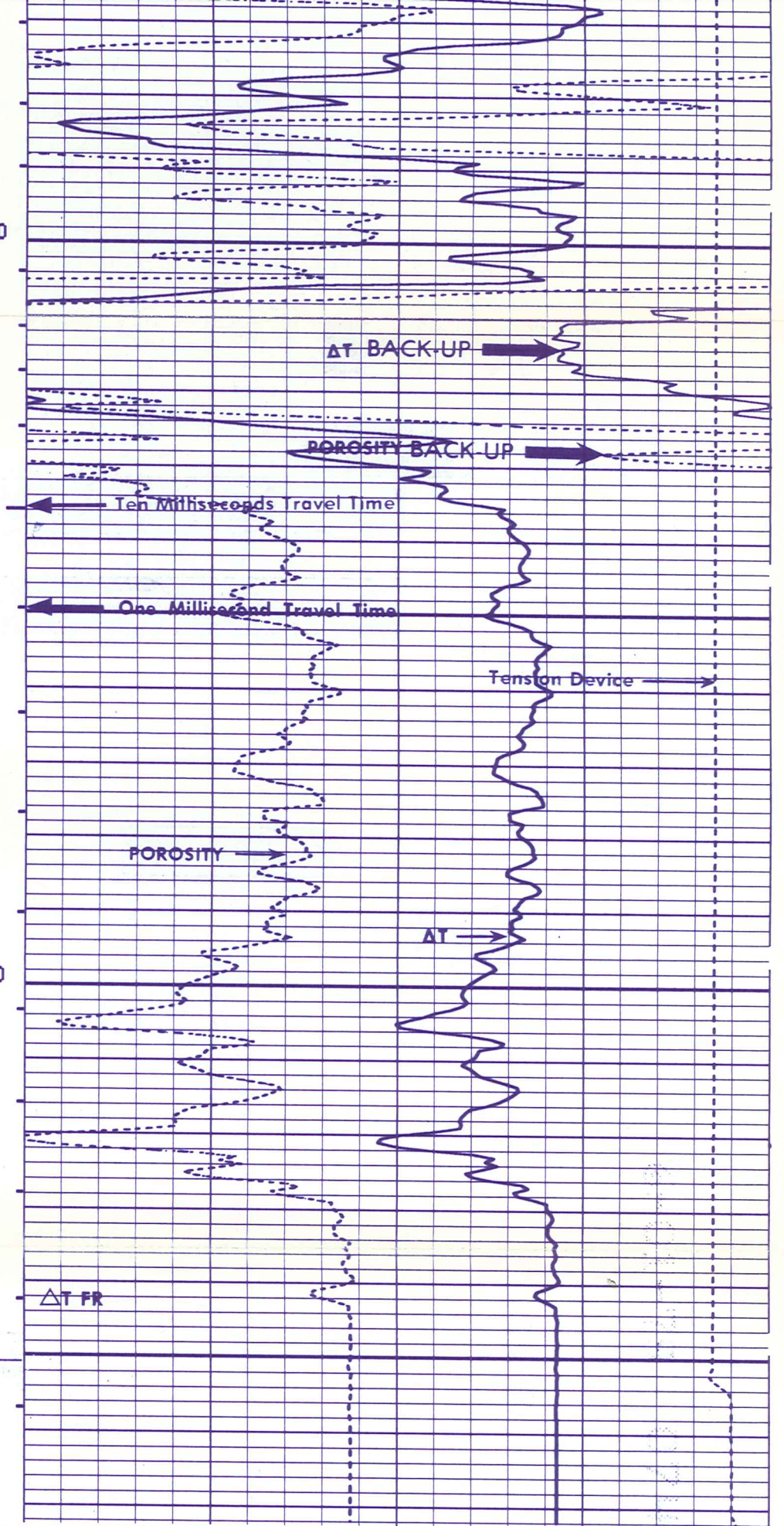
GR

GR ER

3500

FR

DEPTH



ΔT BACK-UP

POROSITY BACK-UP

Ten Milliseconds Travel Time

One Millisecond Travel Time

Tension Device

POROSITY

ΔT

ΔT FR

CALI (IN)	
6.000	16.00
GR (GAPI)	
0.0	150.0

Gamma Ray
SCALE CHANGE

CALIPER DIAM. IN INCHES	
6	16
GAMMA RAY API UNITS	
30	130
130	230

Run 1

4
4
4

Run 2

DEPTH

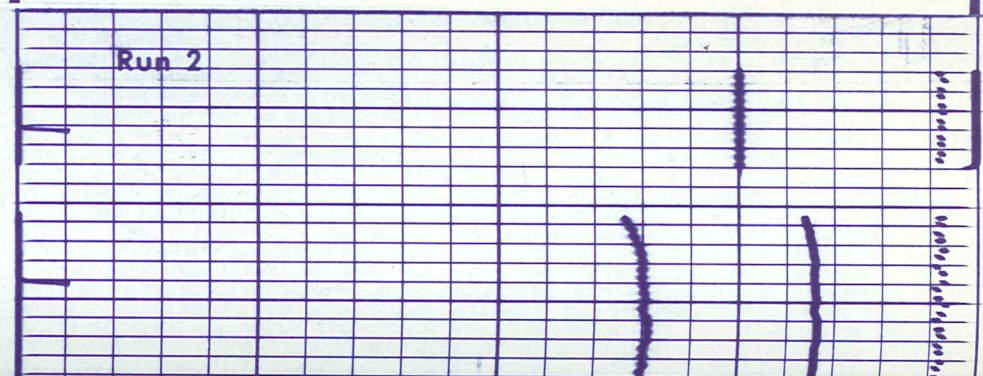
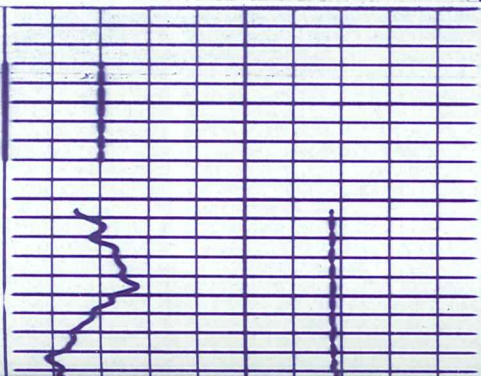
TENS (LB)	
10000.	0.0
DT (US/F)	
140.0	40.00
DT (US/F)	
240.0	140.0
SPHI ()	
0.3000	-0.100

Run 1

Run 2

INTERVAL TRANSIT TIME MICROSECONDS PER FOOT		T _{3R1}	T _{3R2}
140	90		40
240	190		140

INTEGRATED TRAVEL TIME				
SONIC PROSITY INDEX % ΔT = 51.3 MATRIX				
30	20	10	0	-10



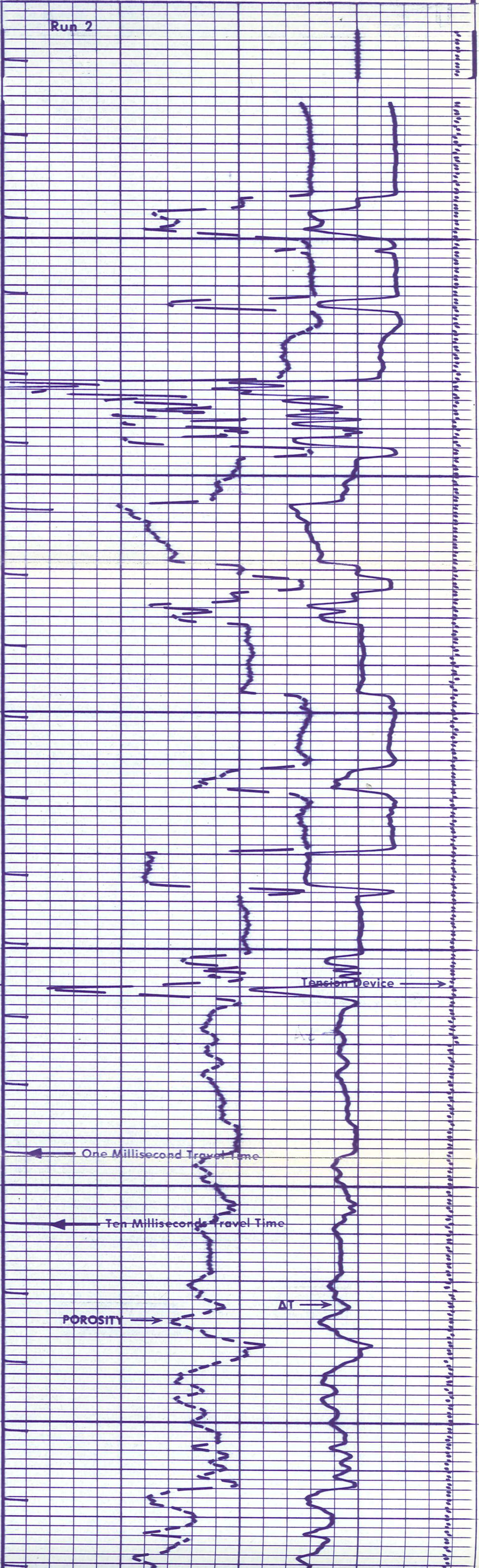
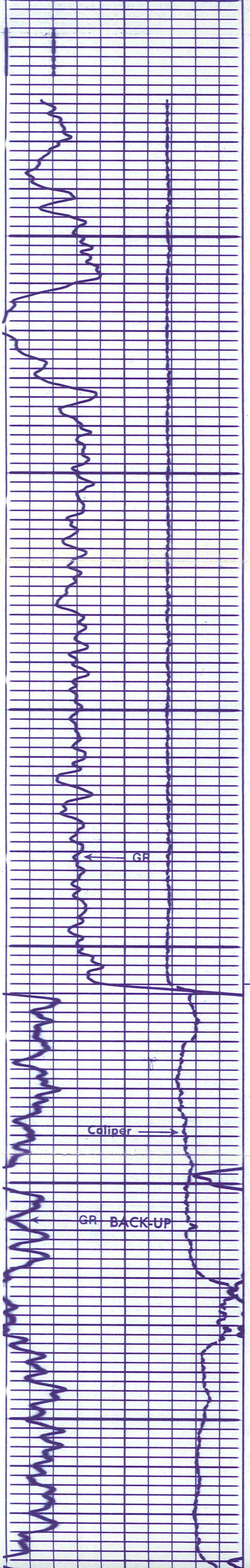
Run 2

3400

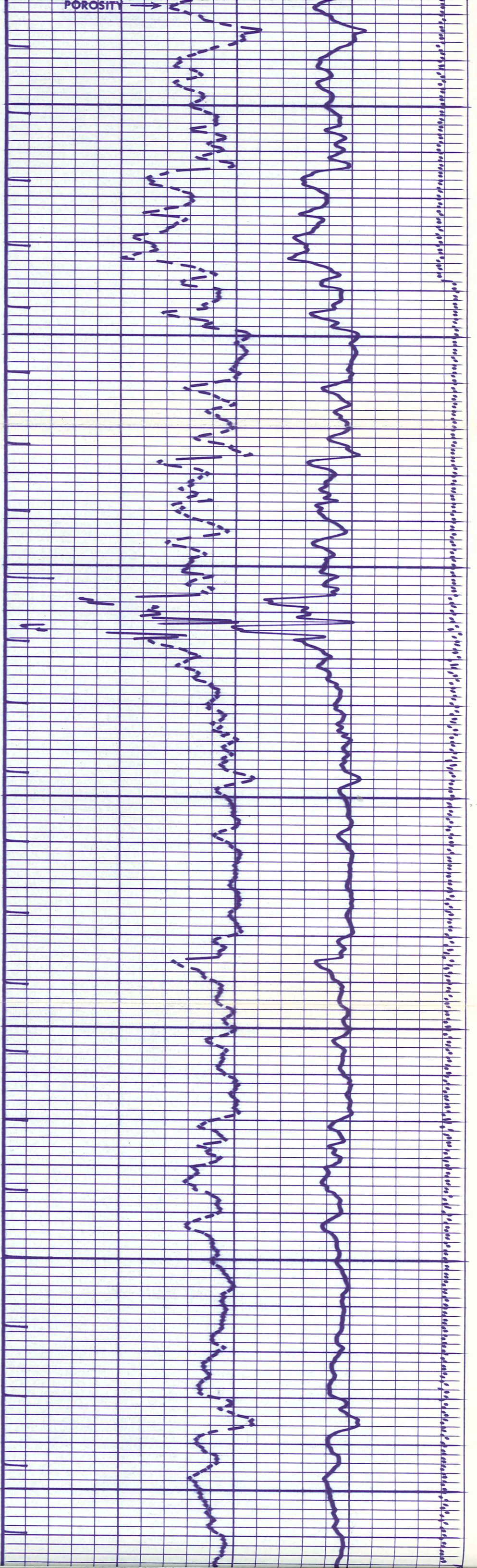
3500

Casing

3600



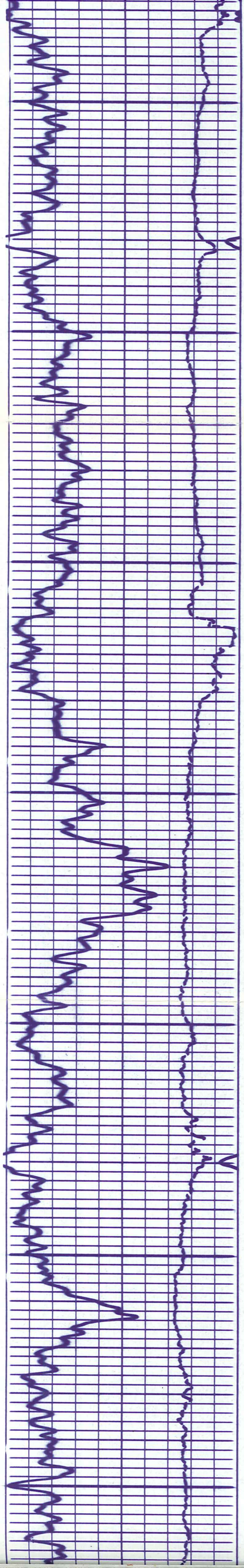
POROSITY →

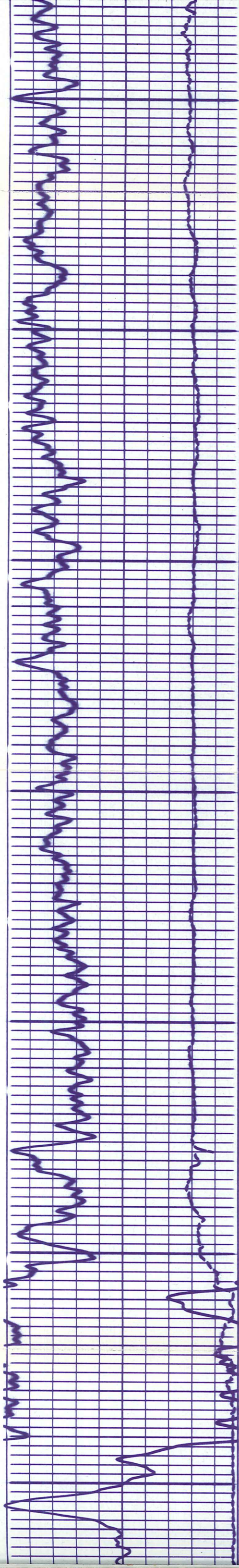


3700

3800

3900

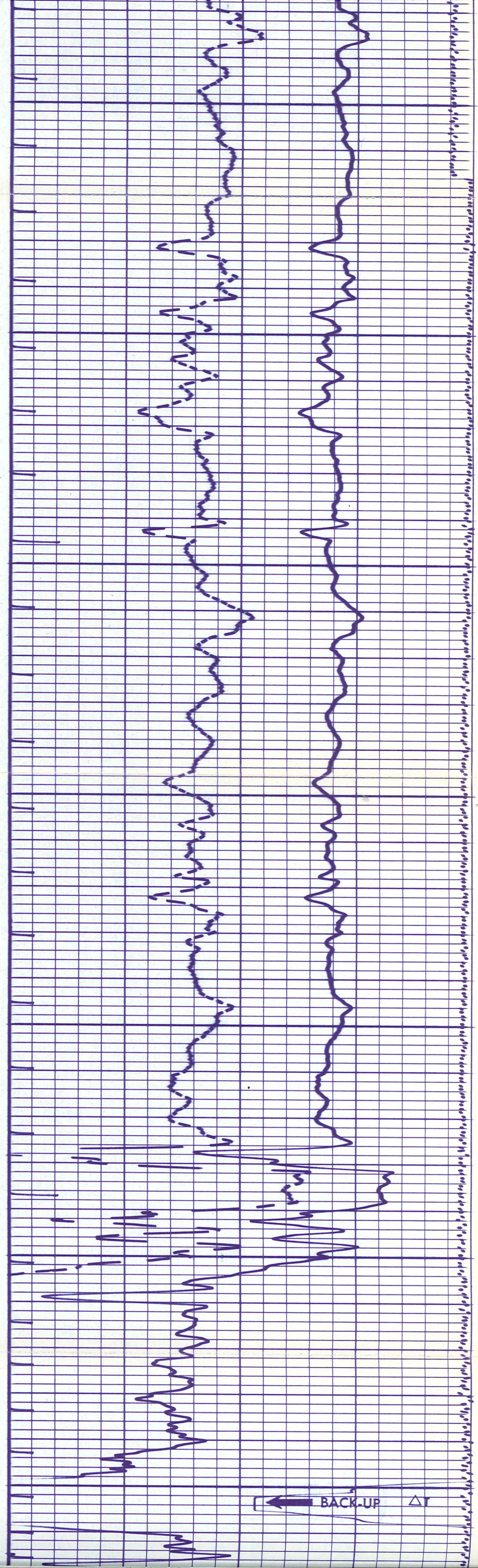




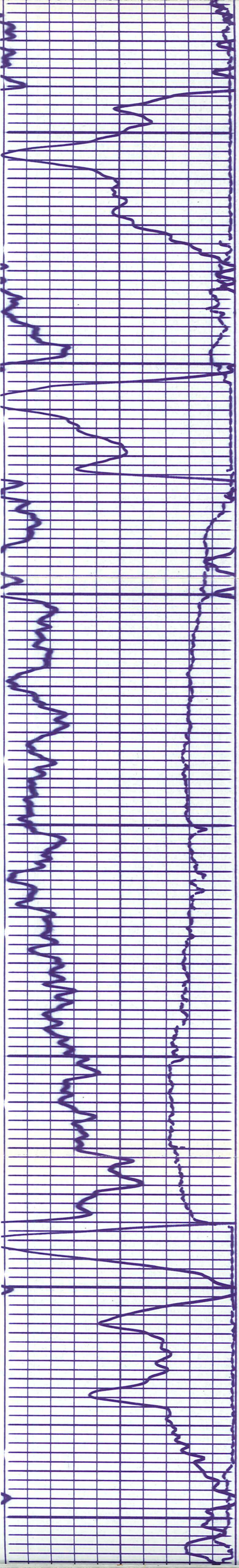
4000

4100

4200



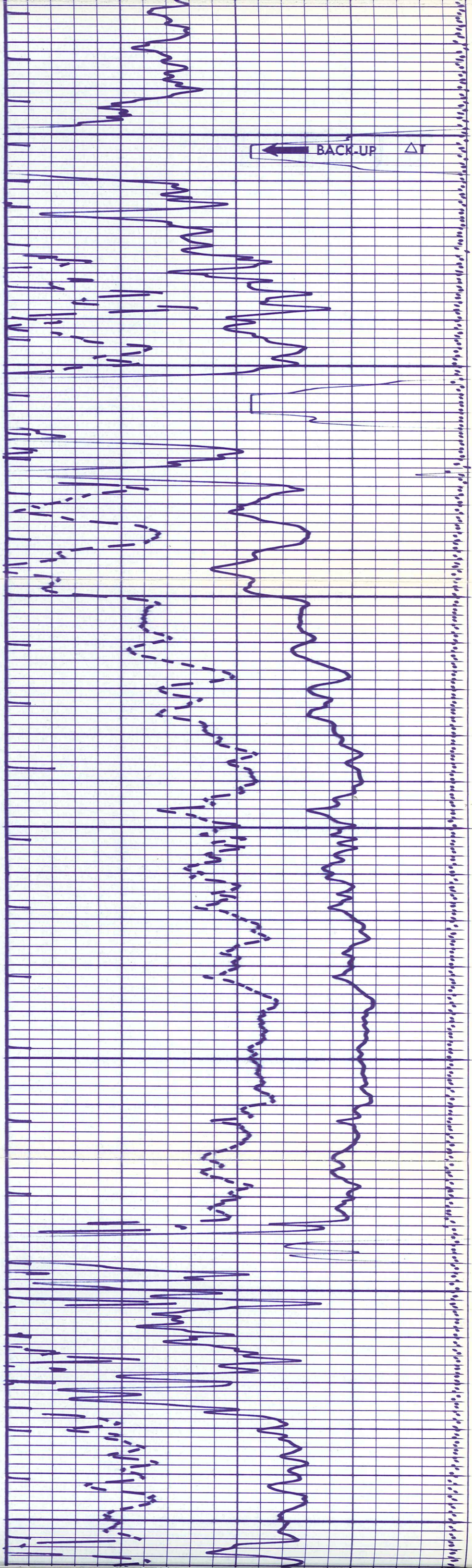
← BACK-UP ΔT

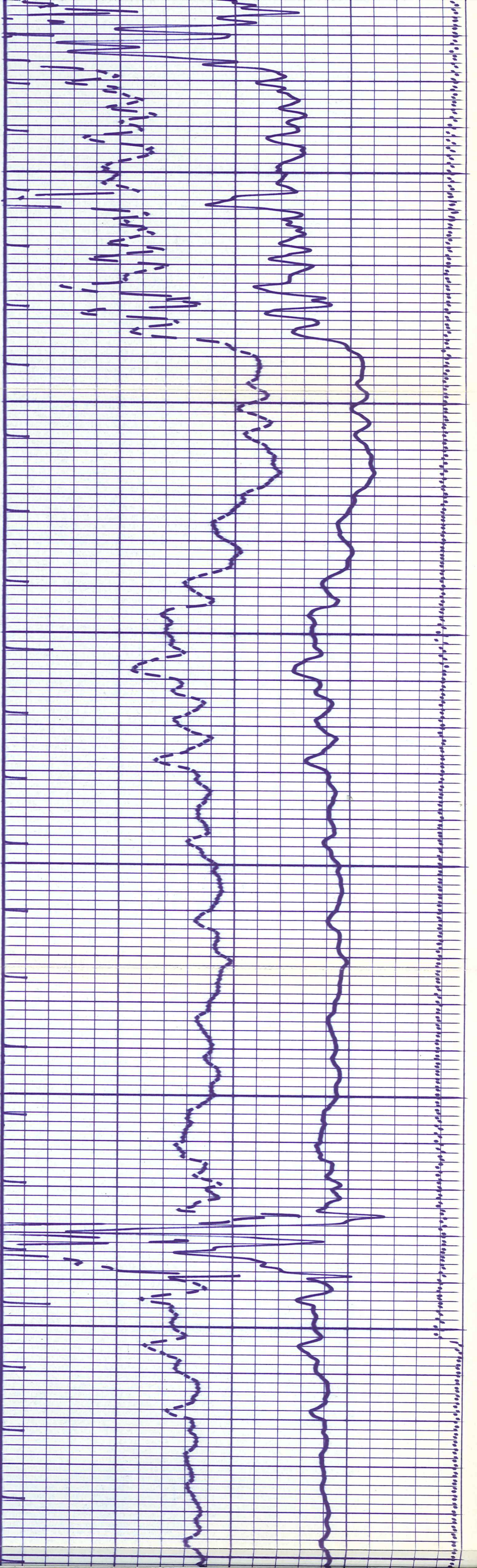


4300

4400

4500

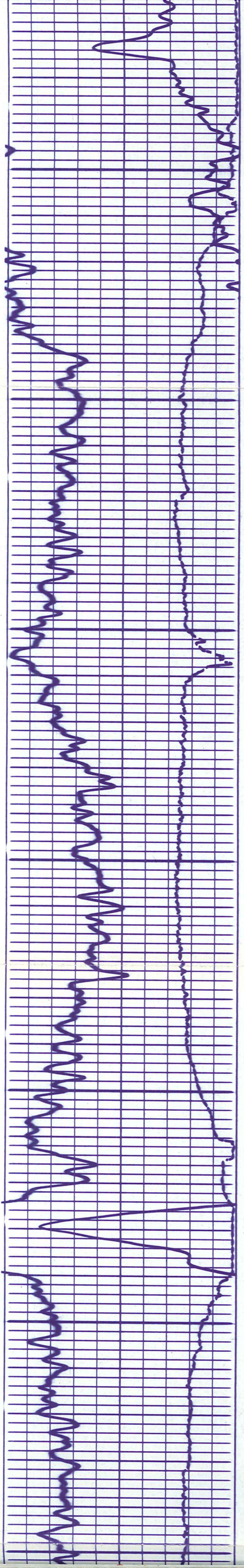


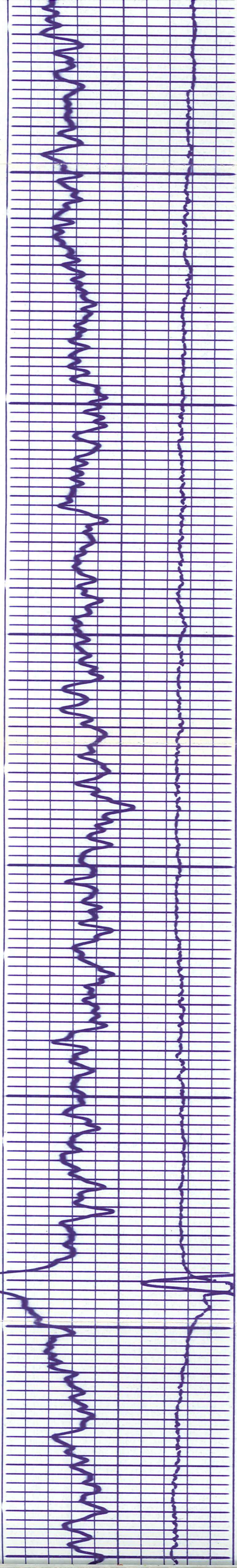


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4700

4800

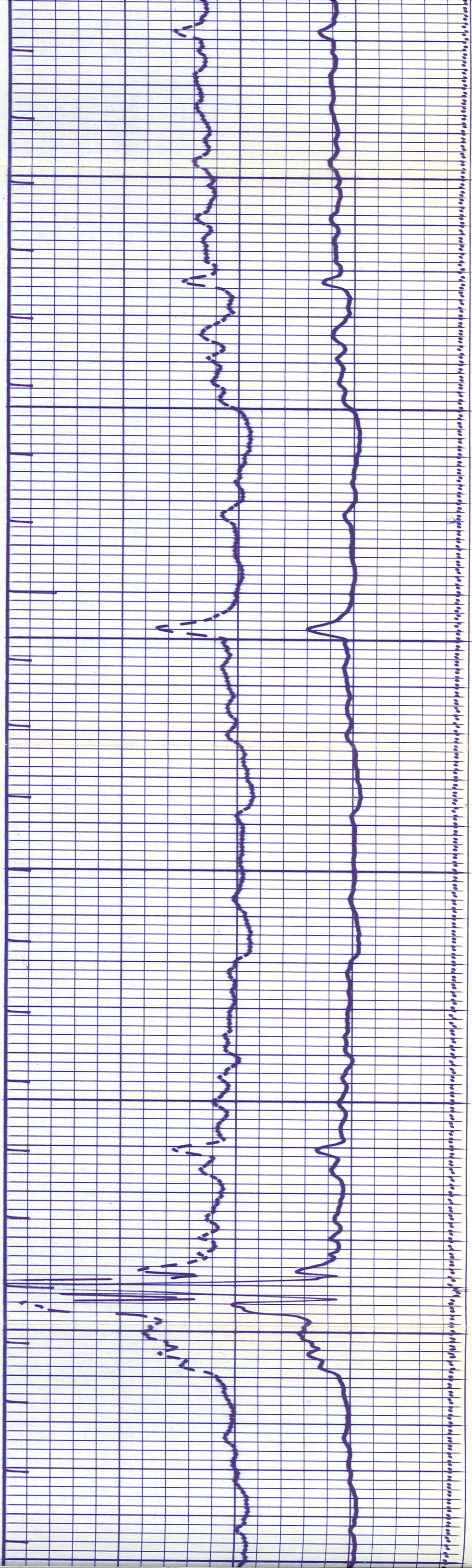


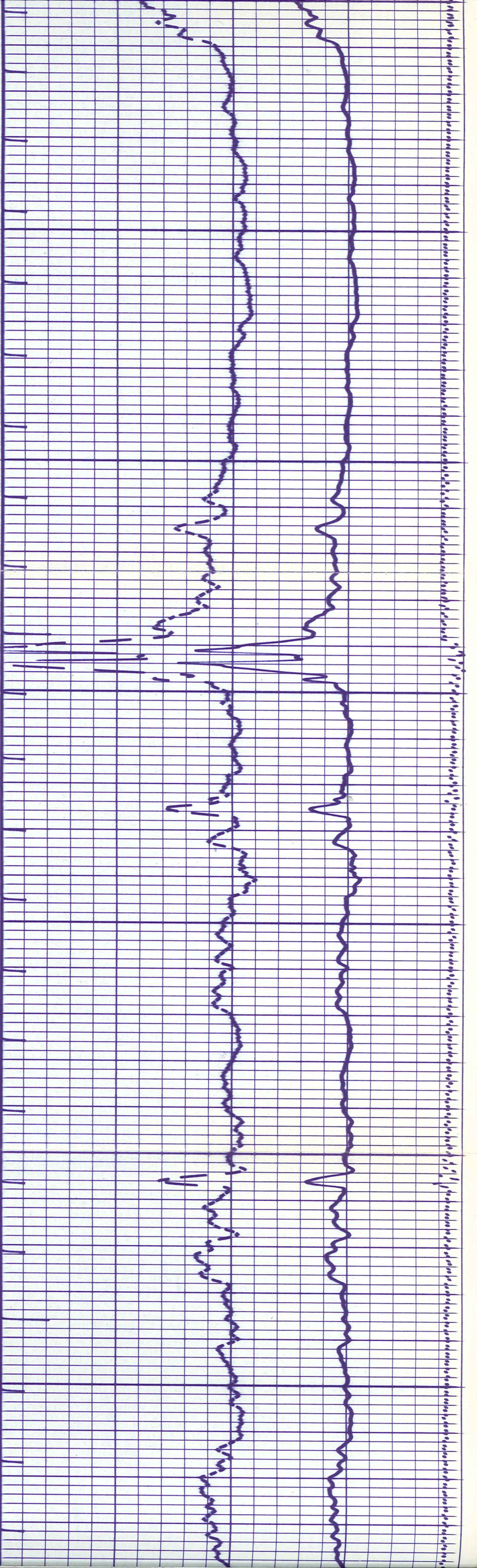


4900

5000

5100

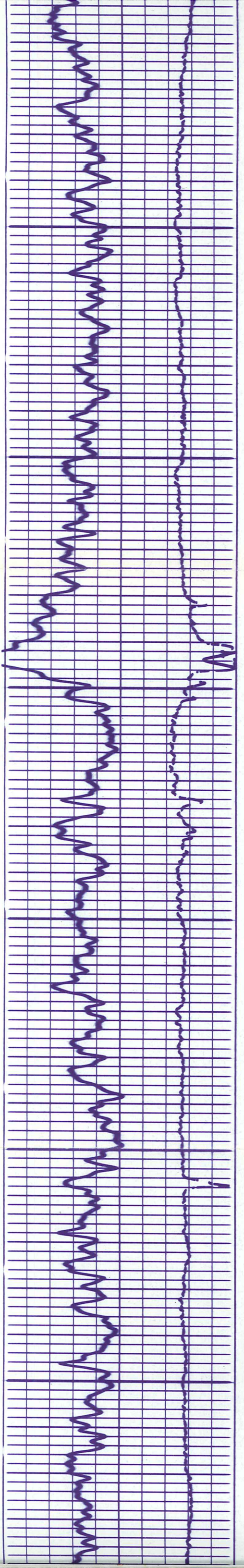


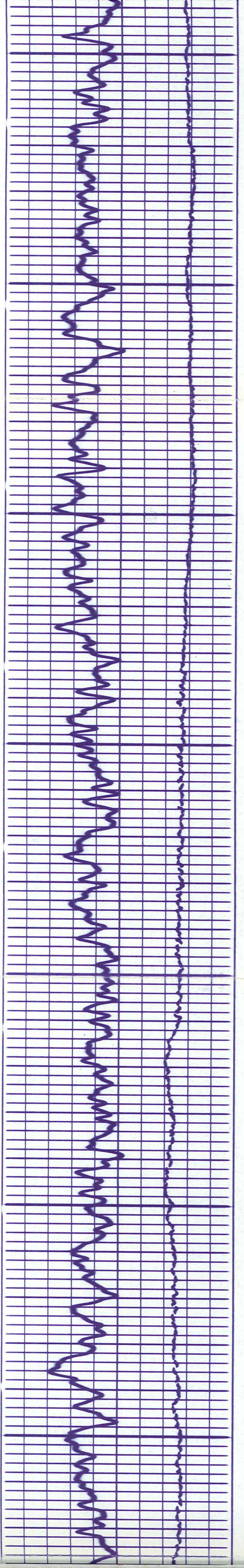
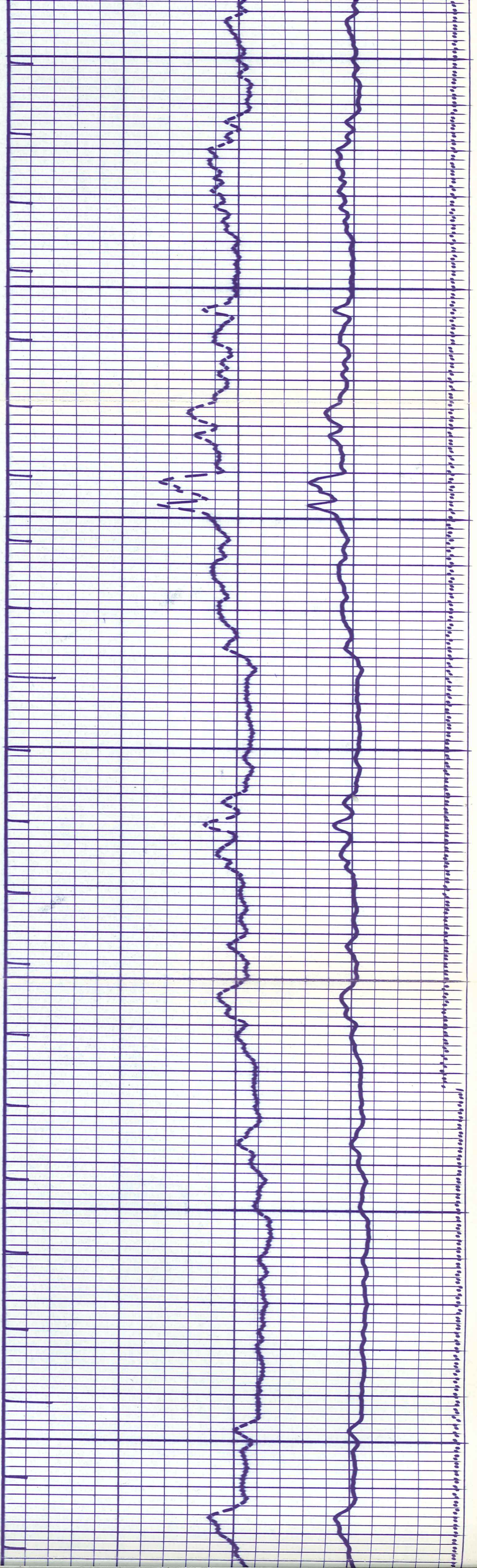


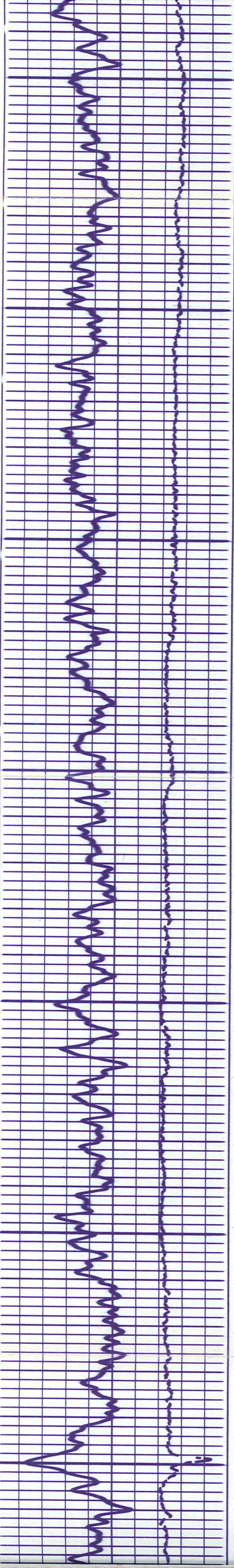
5200

5300

5400





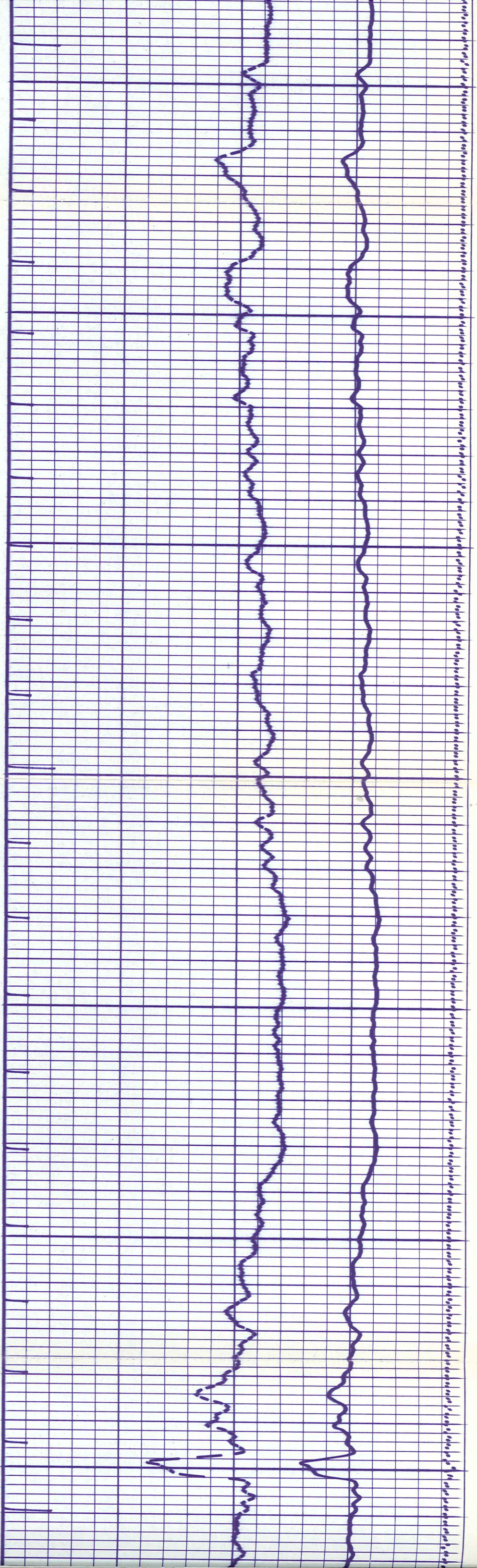


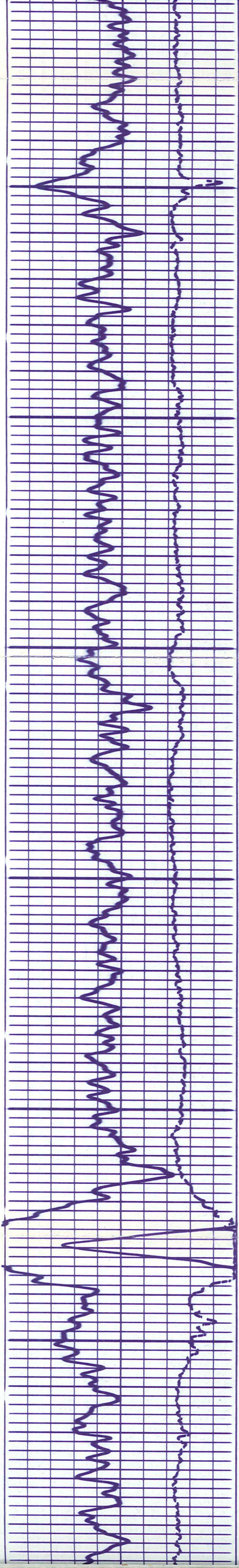
5700

5800

5900

6000



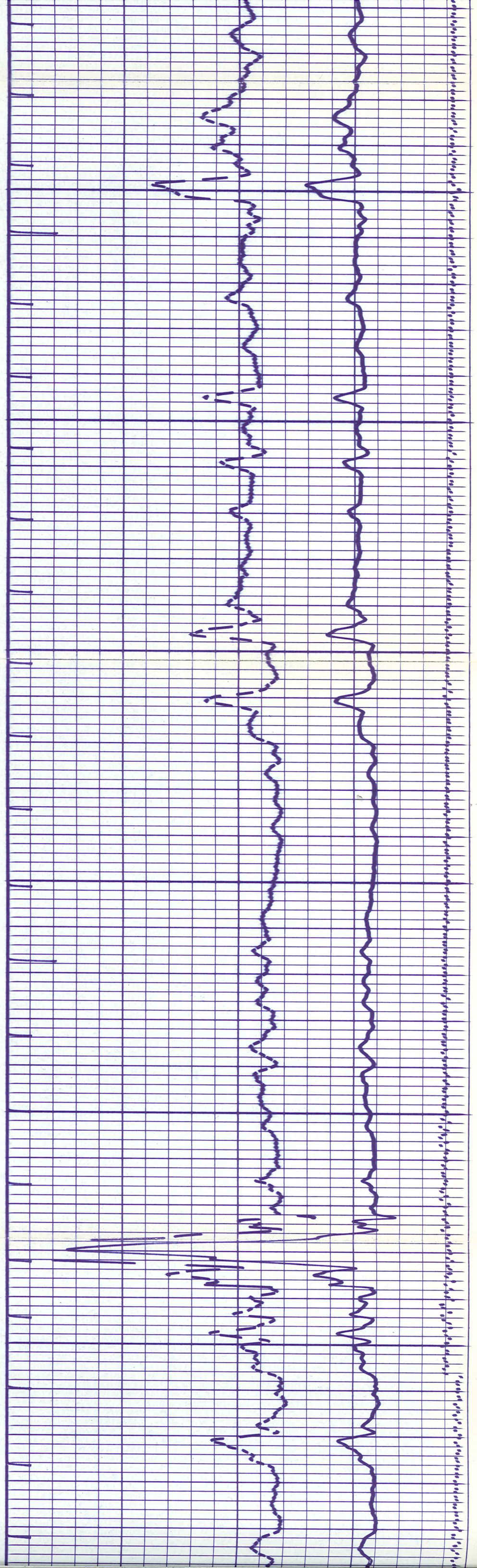


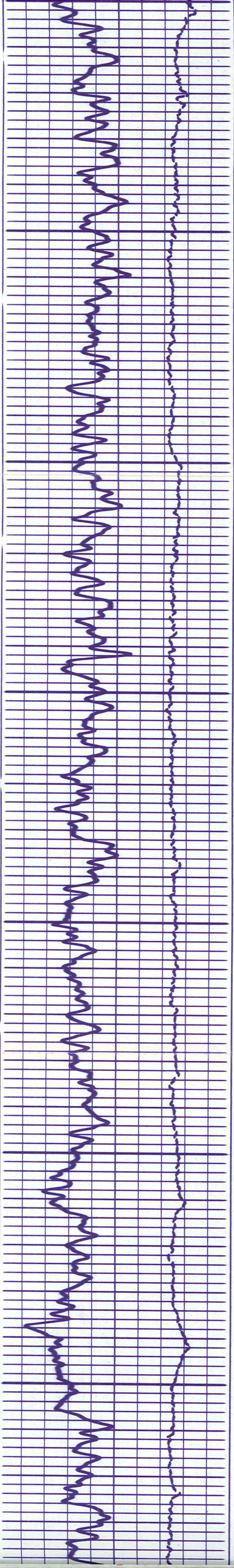
6000

6100

6200

6300

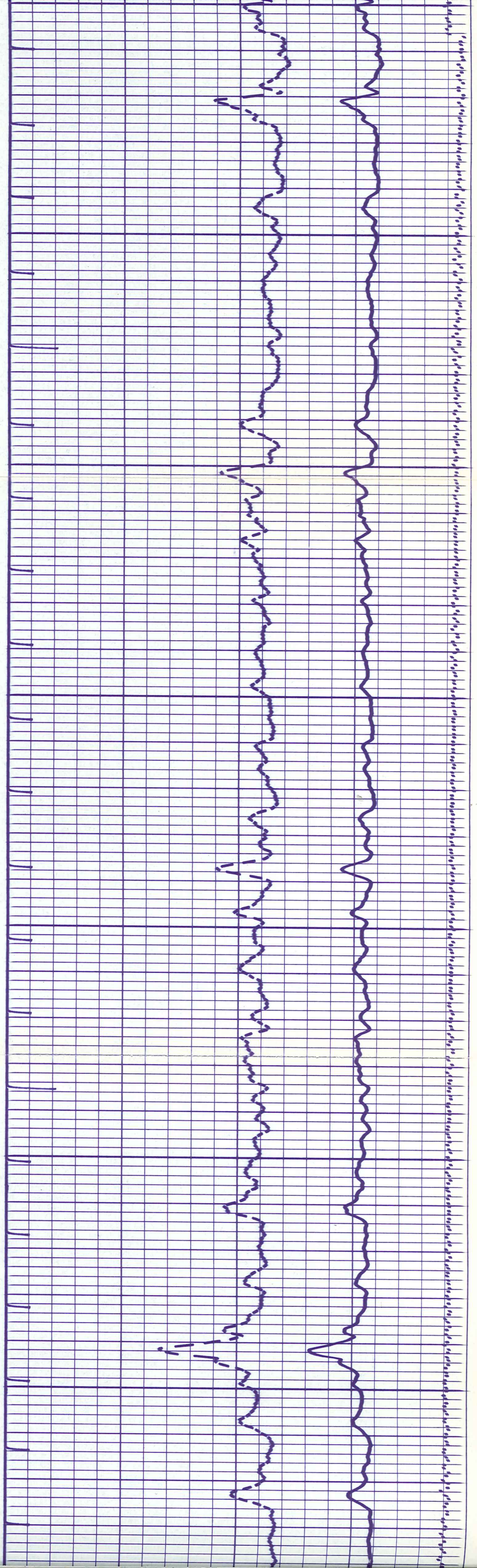


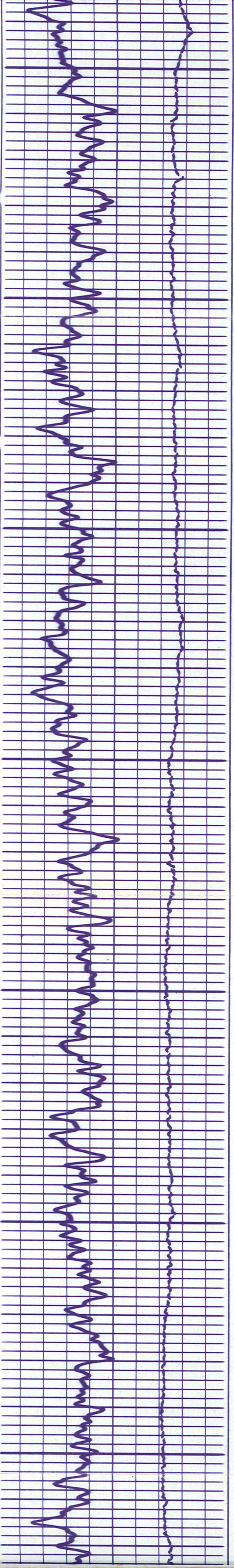


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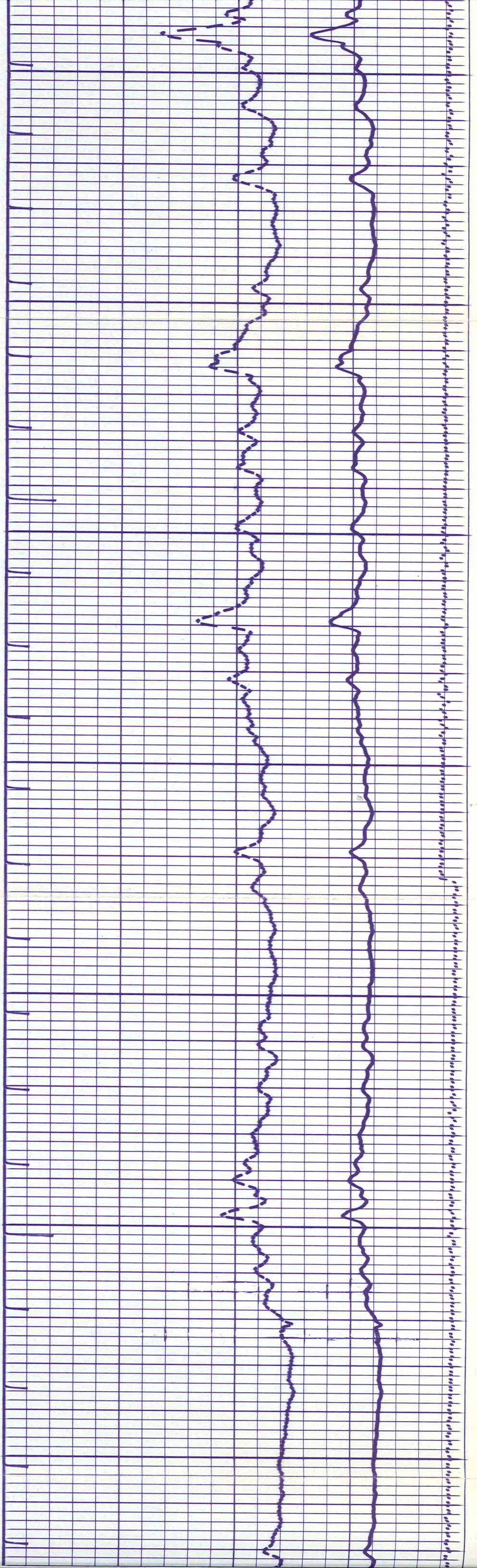


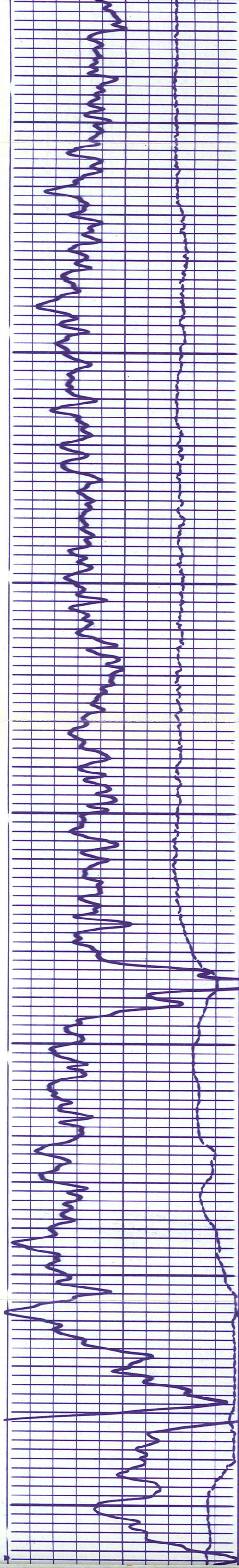


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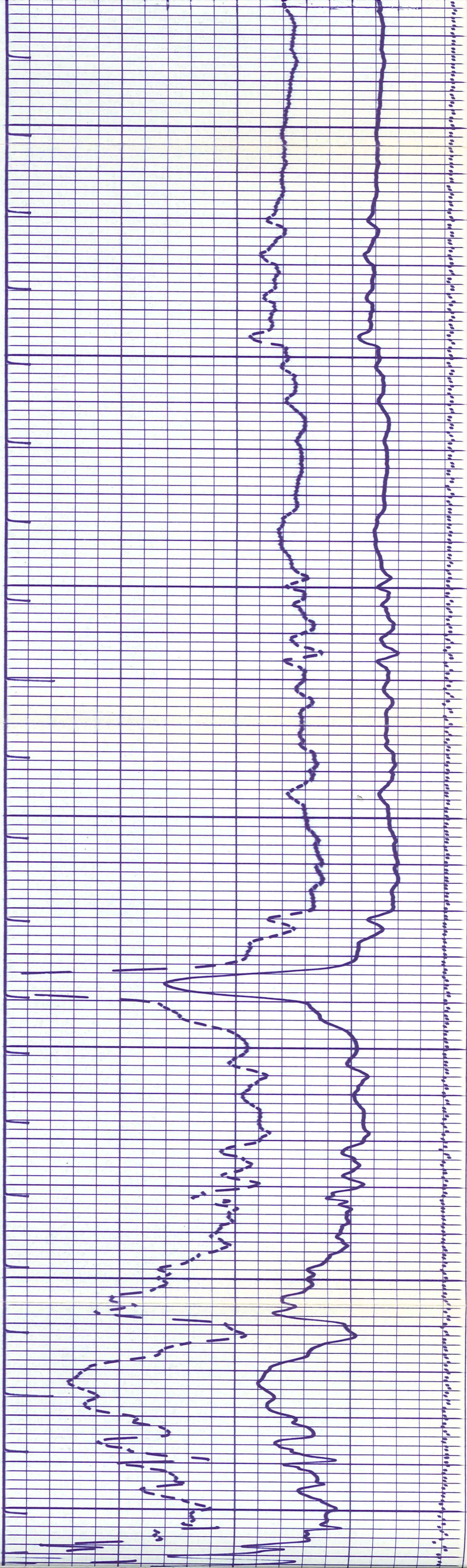


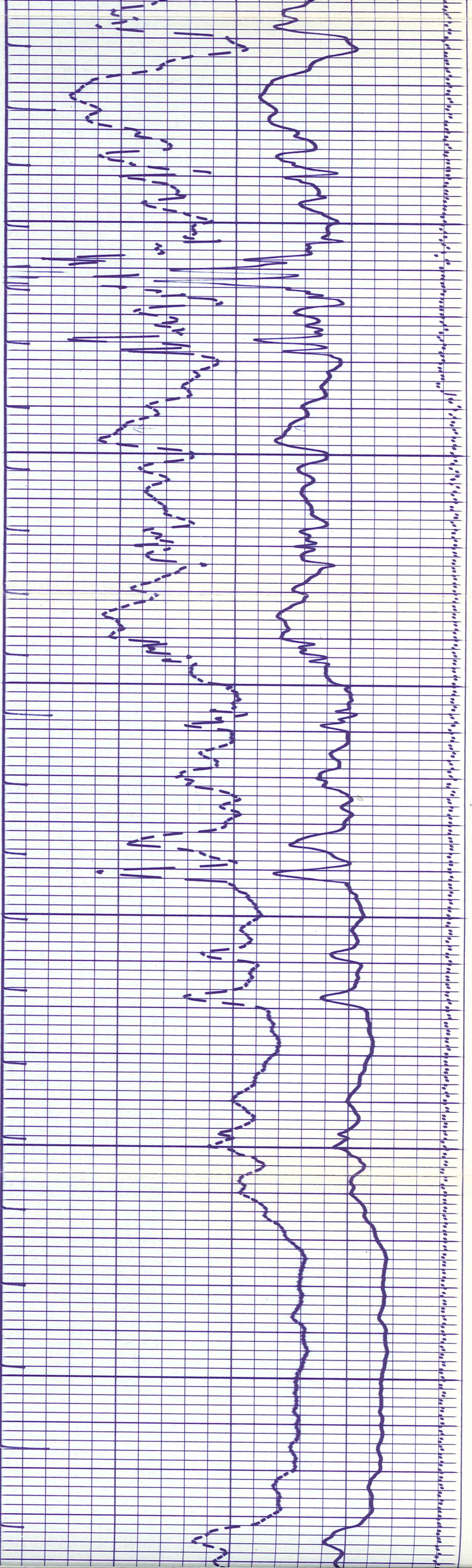


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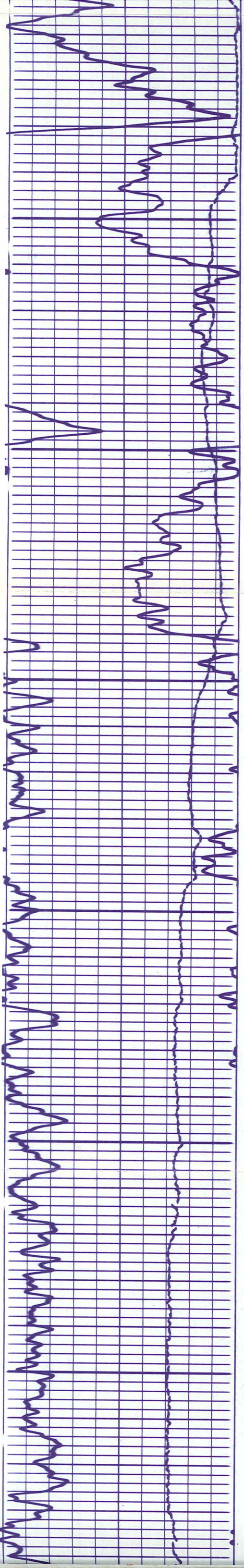


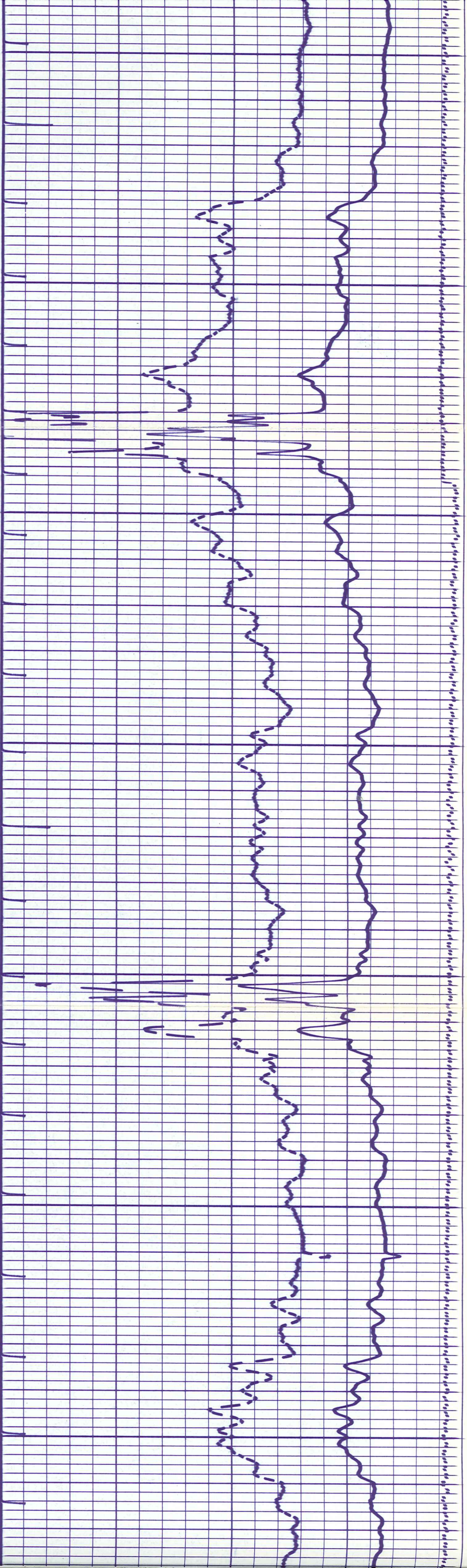


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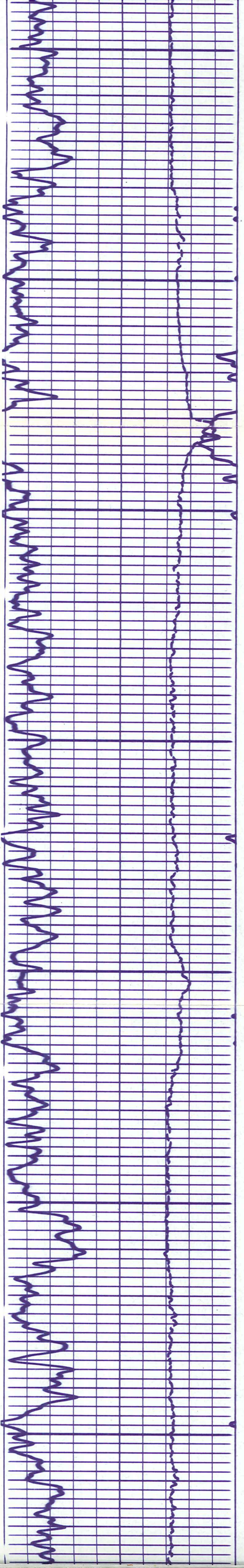


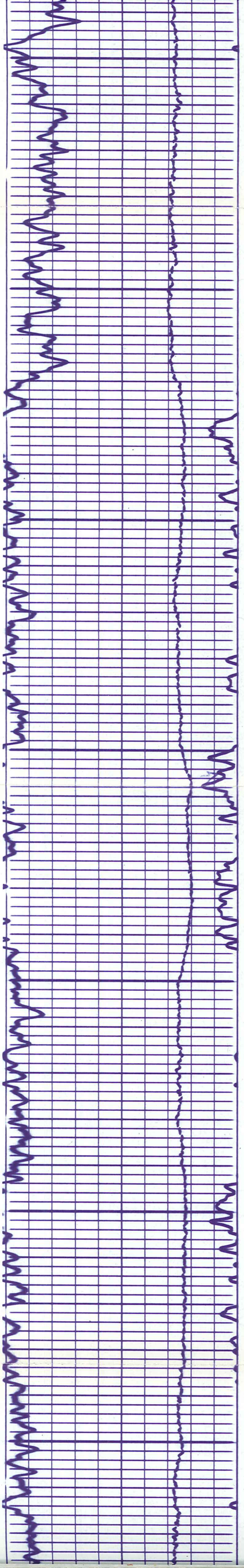
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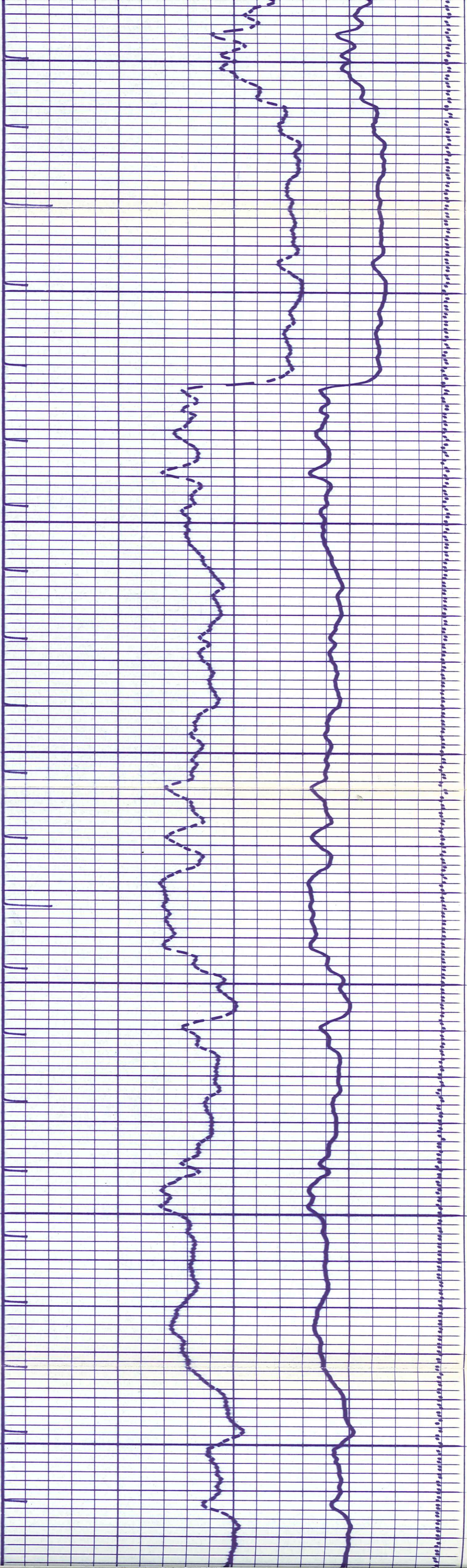


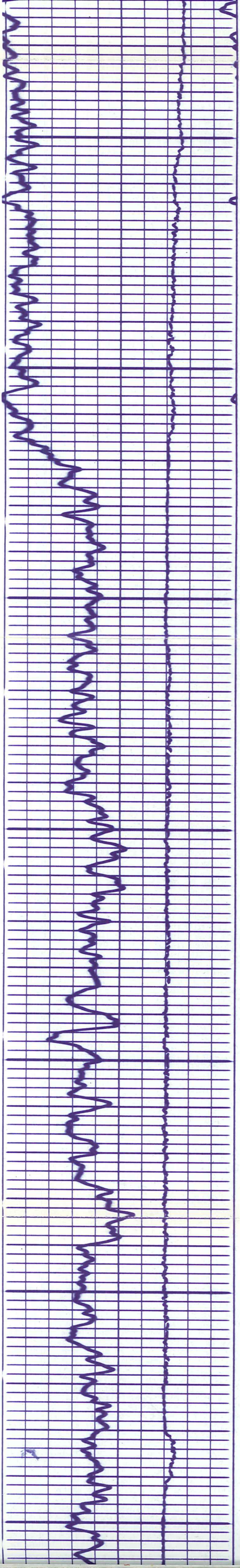
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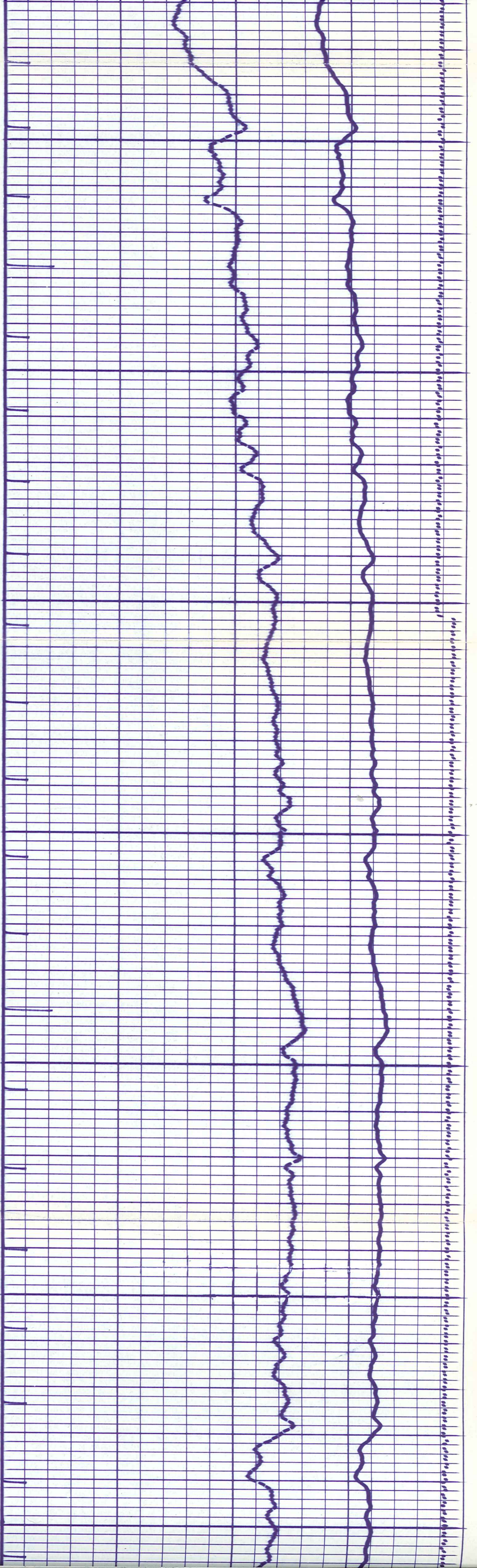


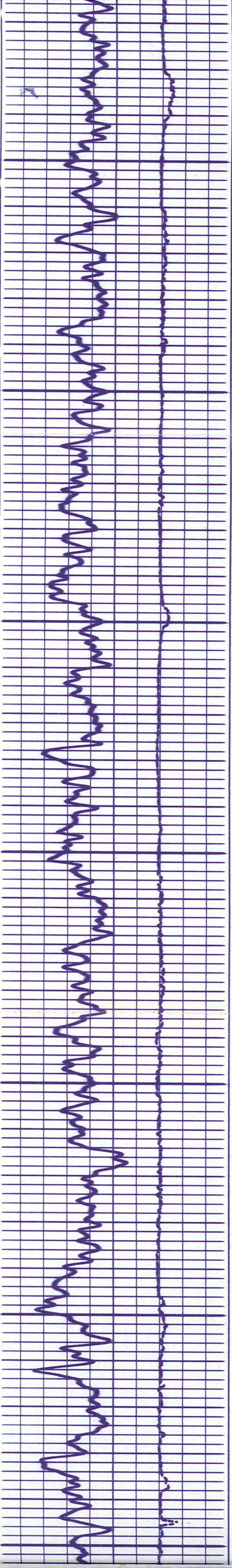
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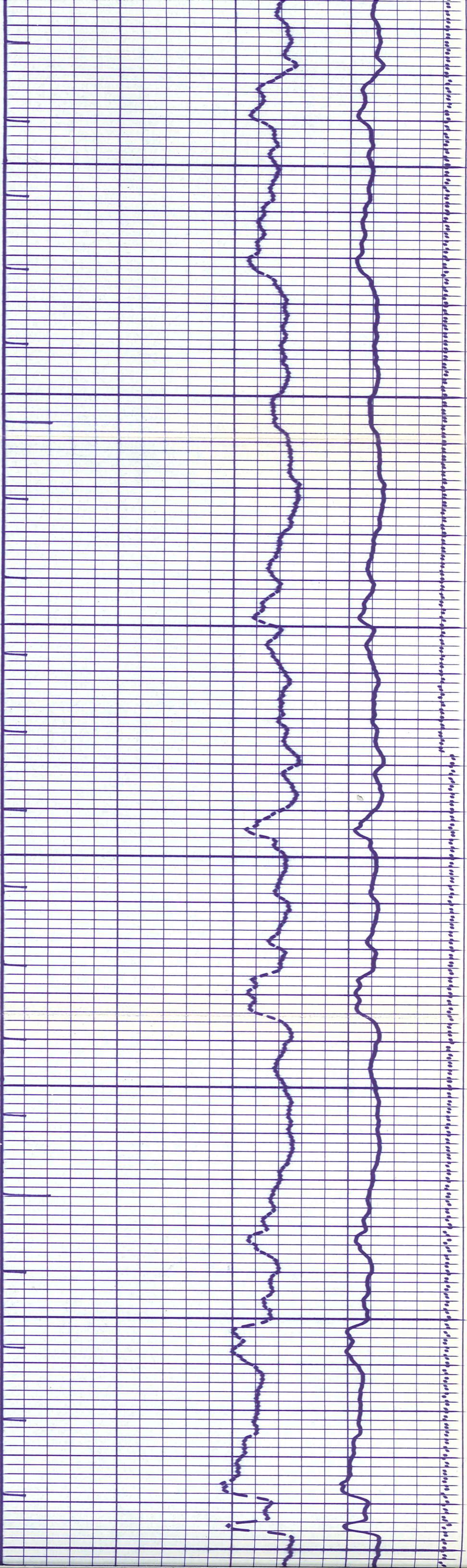


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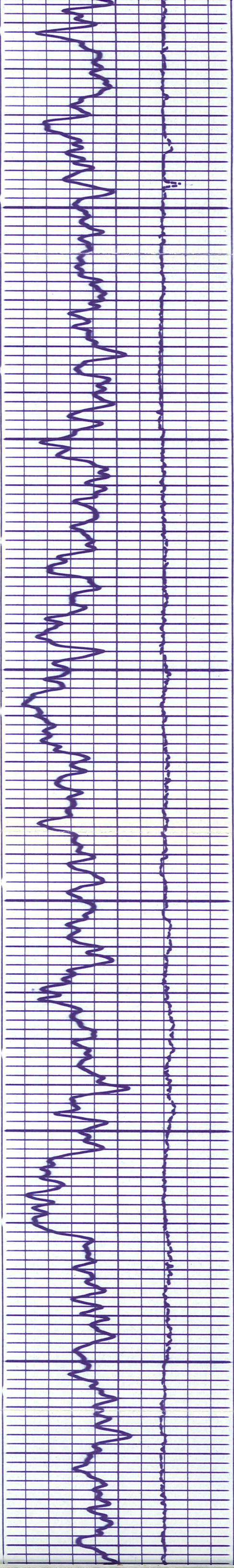
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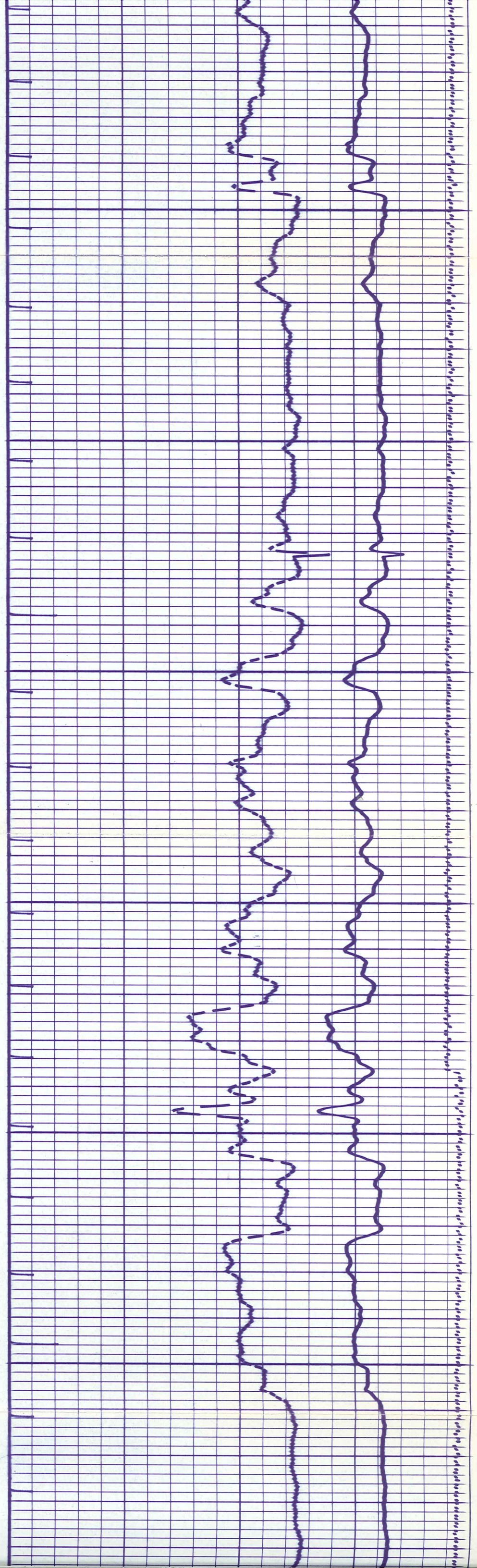
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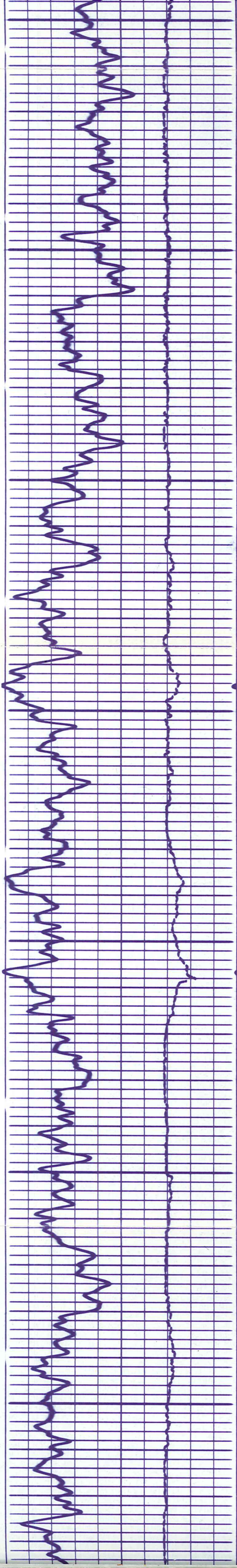


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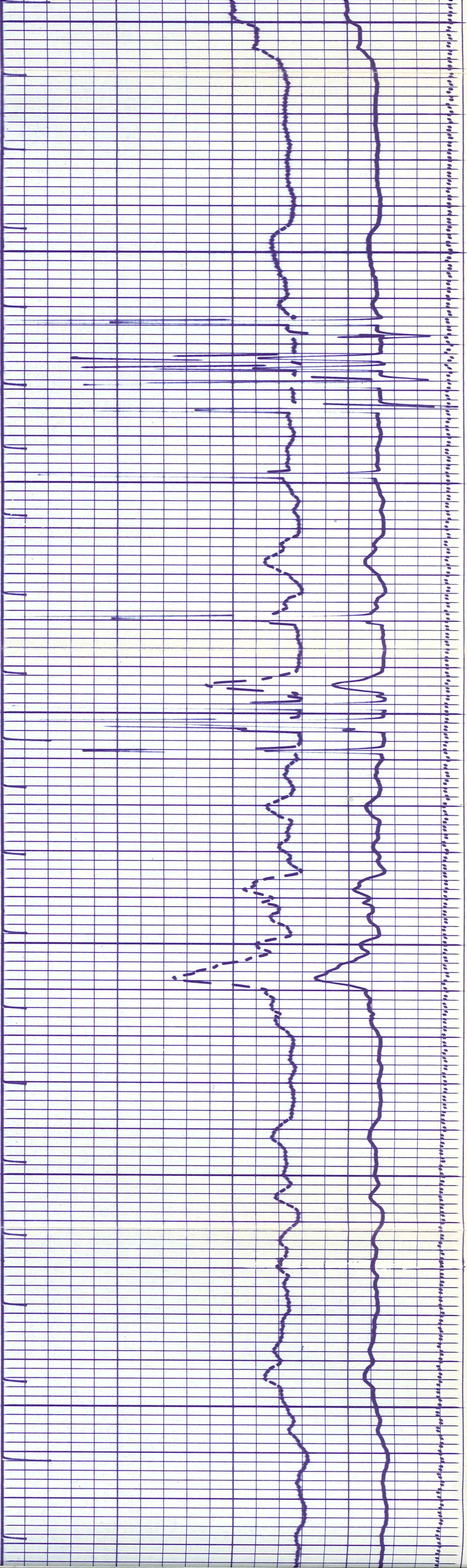


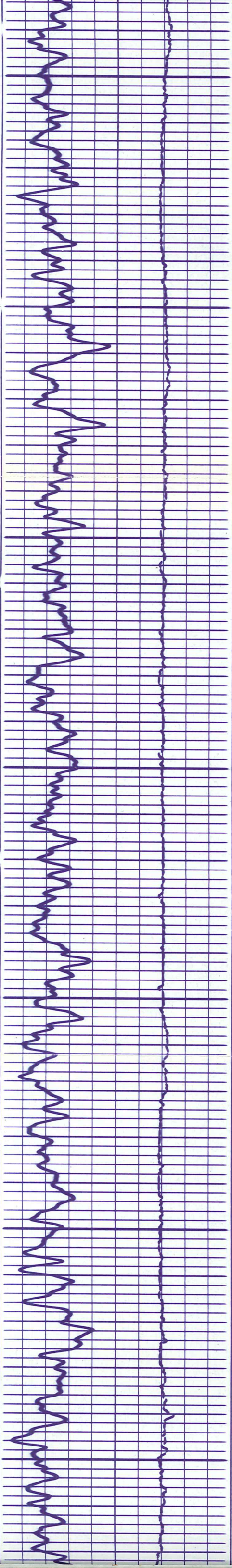


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9000

0016

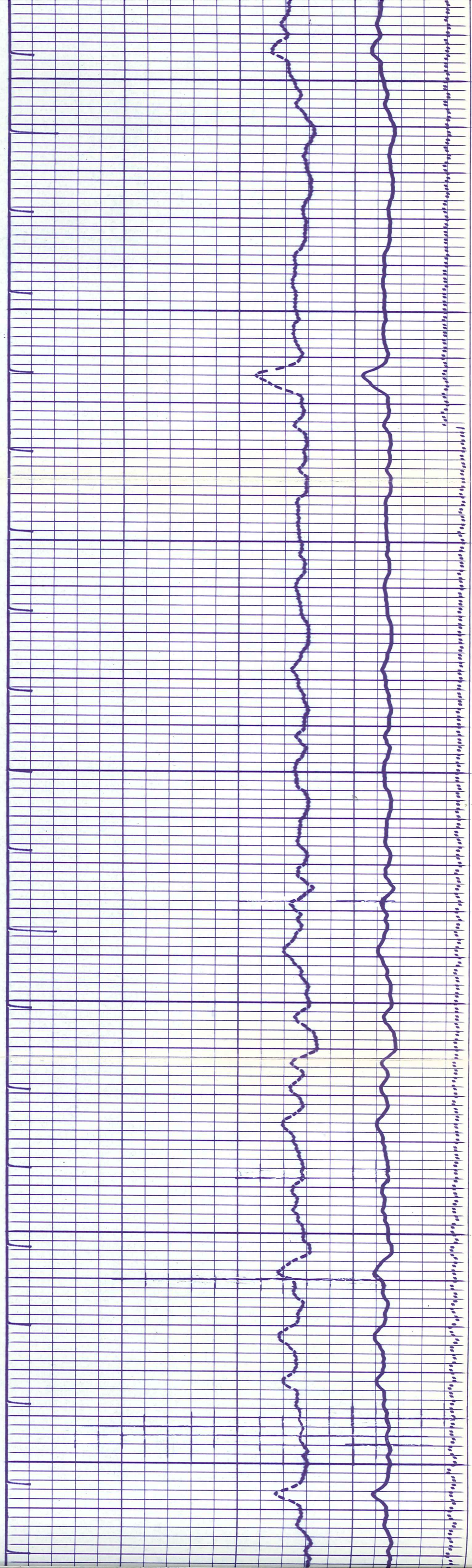


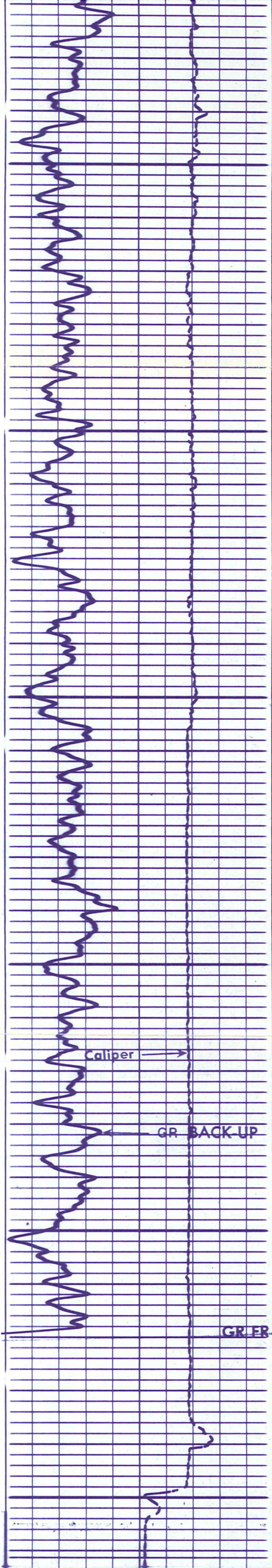


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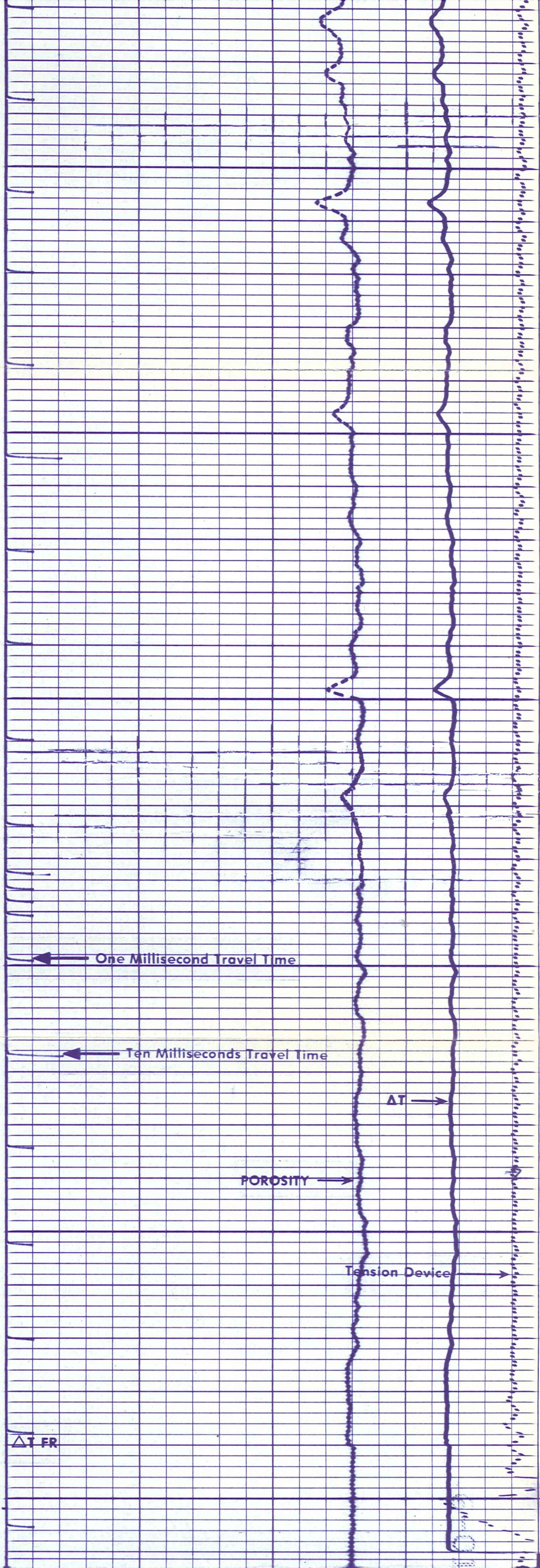




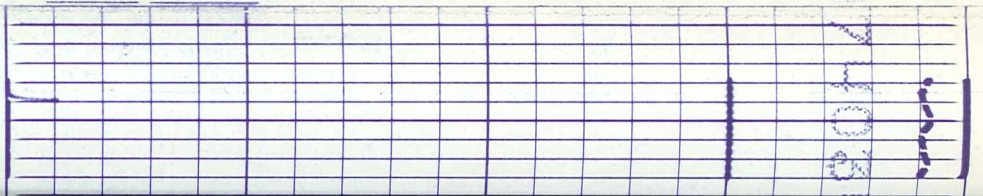
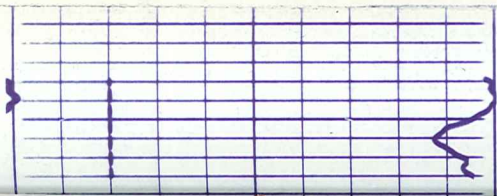
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9600

9700



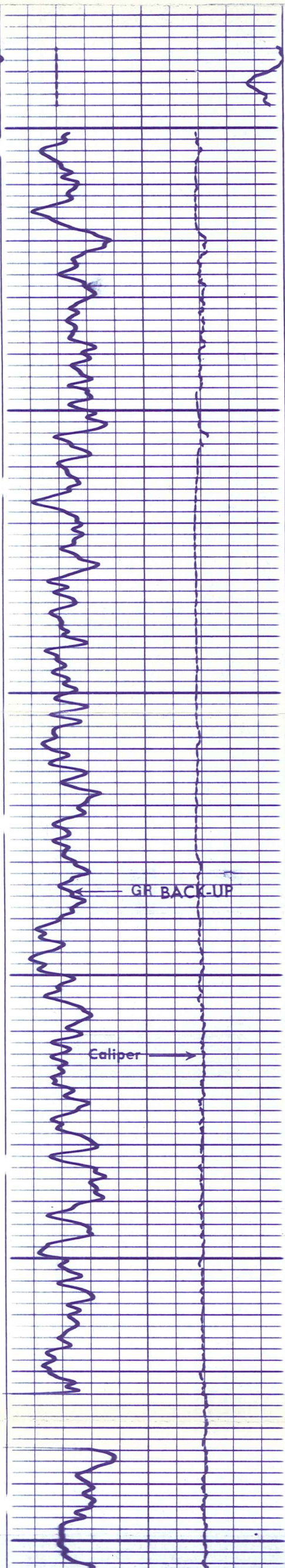
REPEAT SECTION



9700 9800

07408-03
 620-10

REPEAT SECTION

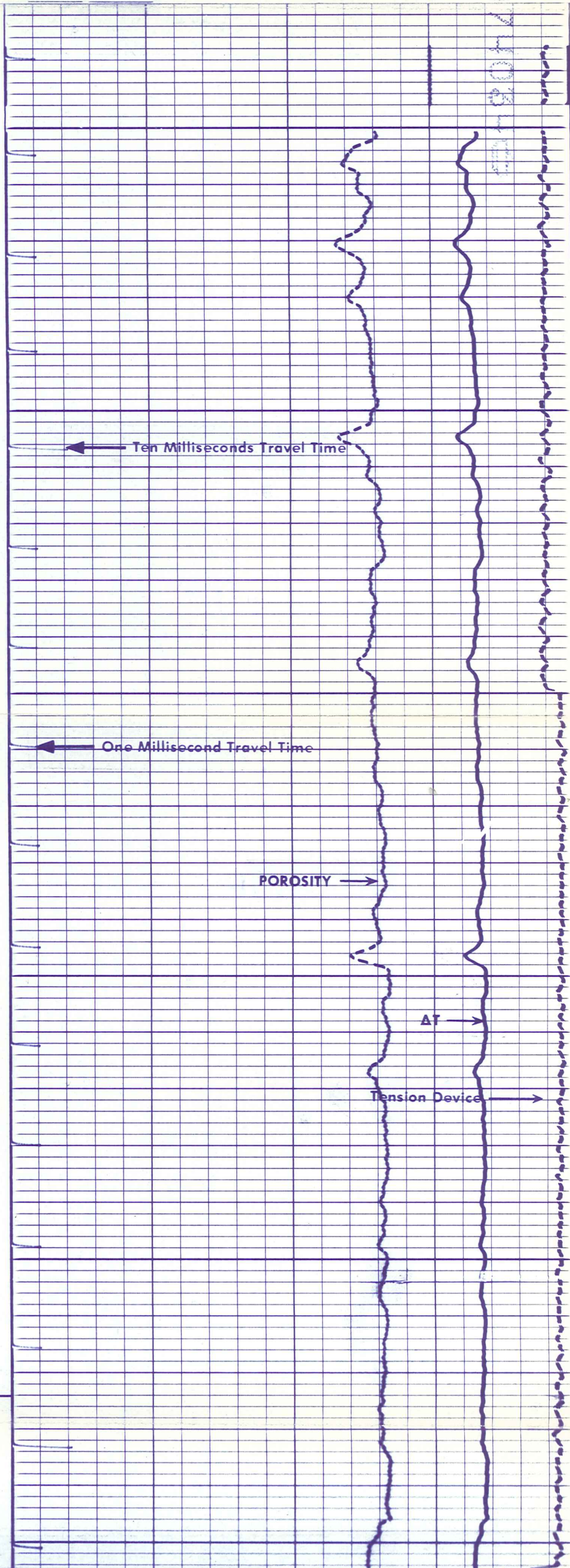


9400

9500

9600

FR



Ten Milliseconds Travel Time

One Millisecond Travel Time

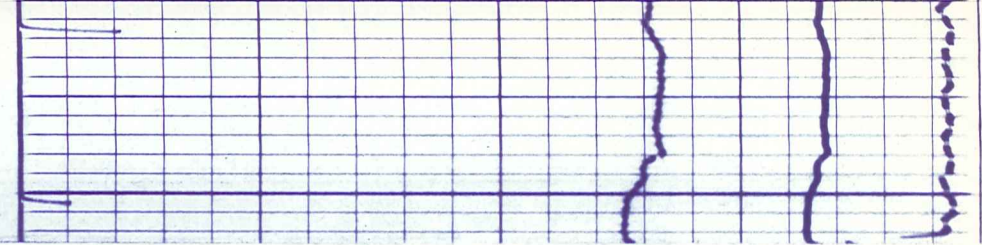
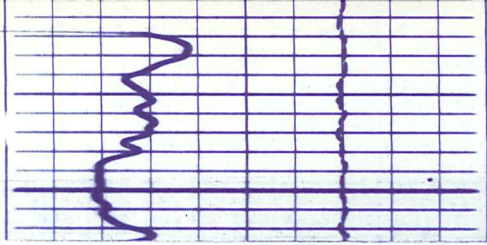
POROSITY

AT

Tension Device

6.000	CAL (IN)	16.00
30	GR (GAPI)	130.0

140.0	DT (US/F)	40.00
240.0	DT (US/F)	140.0



CALI (IN)	6.000	16.00
GR (GAPI)	30.0	130.0

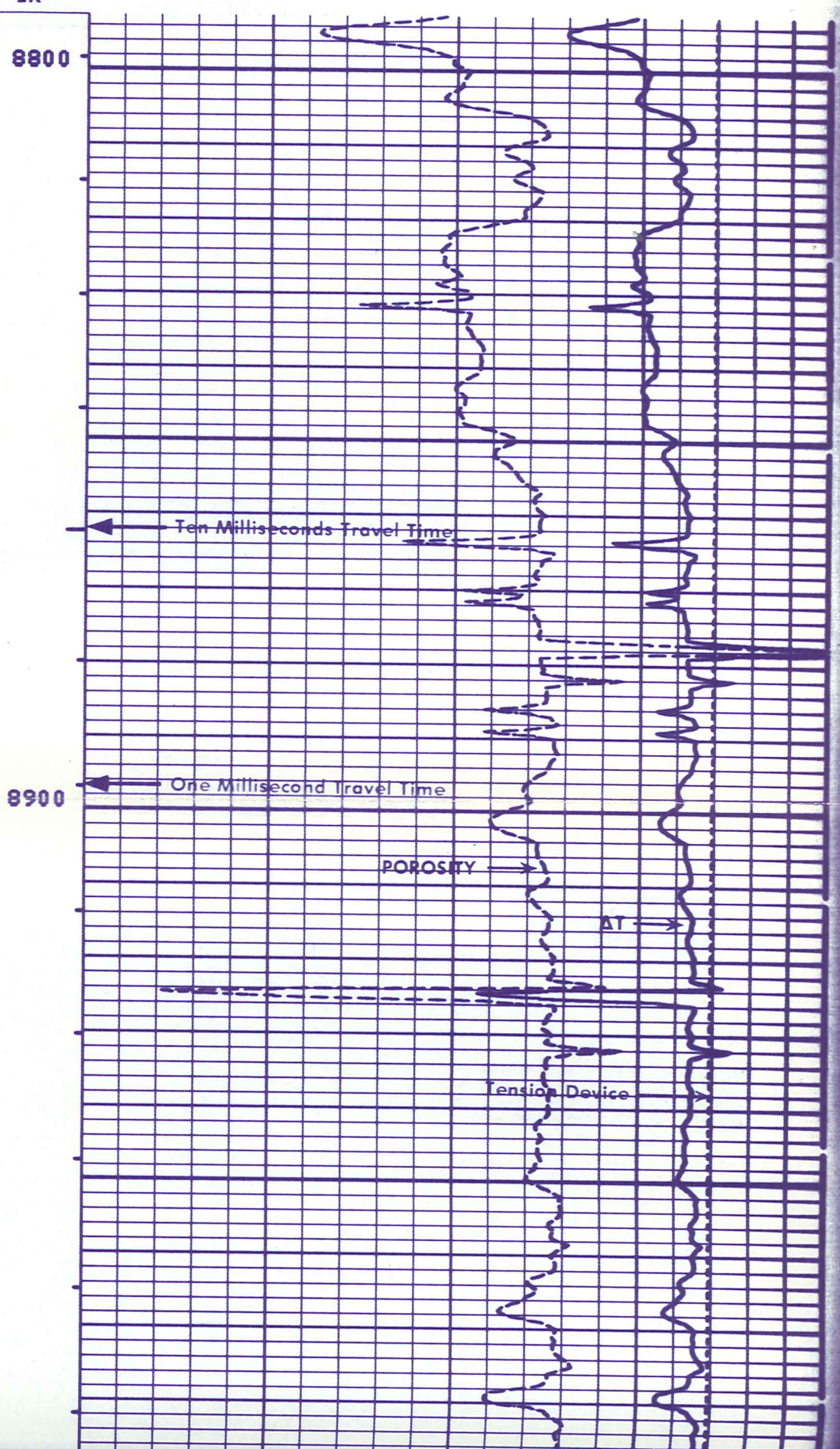
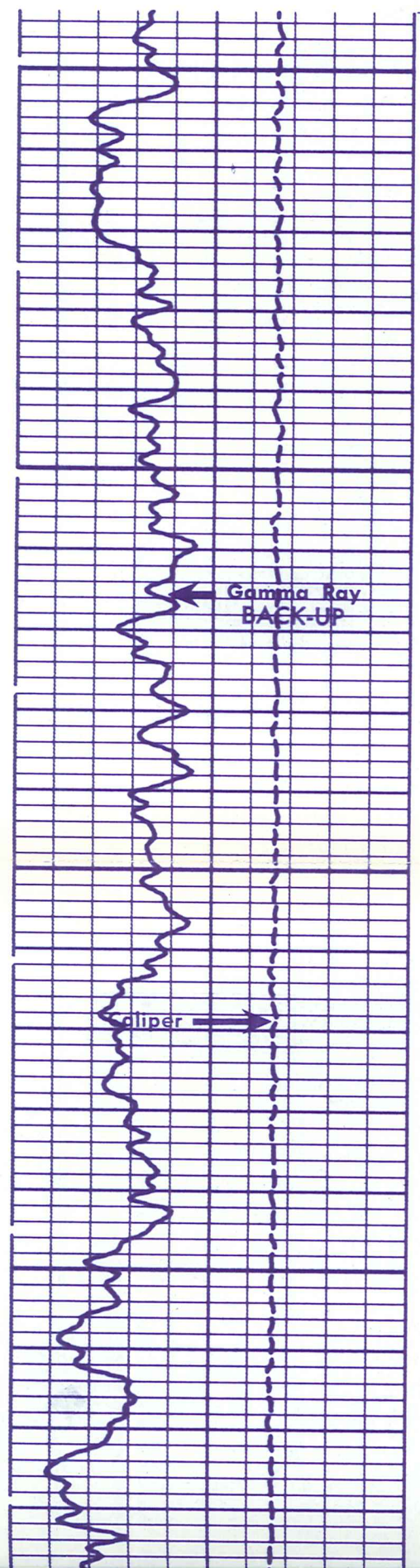
DT (US/F)	140.0	40.00
DT (US/F)	240.0	140.0

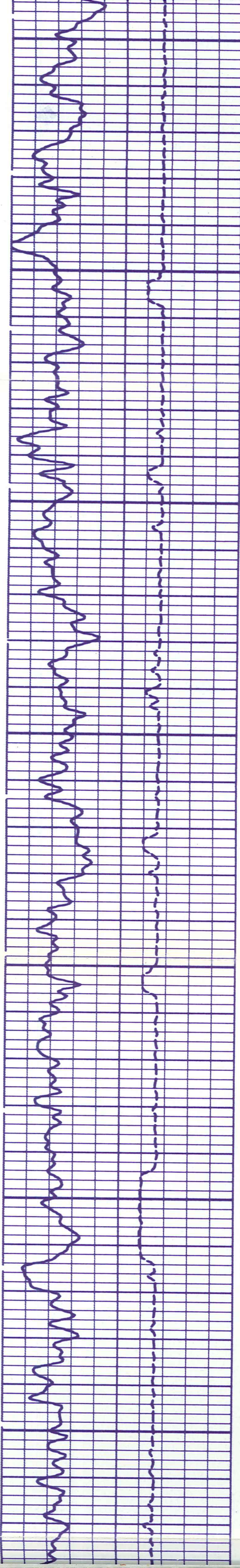
Gamma Ray
SCALE CHANGE

CALI (IN)	6.000	16.00
GR (GAPI)	0.0	150.0

TENS (LB)	10000.0	0.0
DT (US/F)	140.0	40.00
DT (US/F)	240.0	140.0
SPHI ()	0.3000	-0.100

1
1
1
1
1
10
10
10
10
LR 10 Run 3

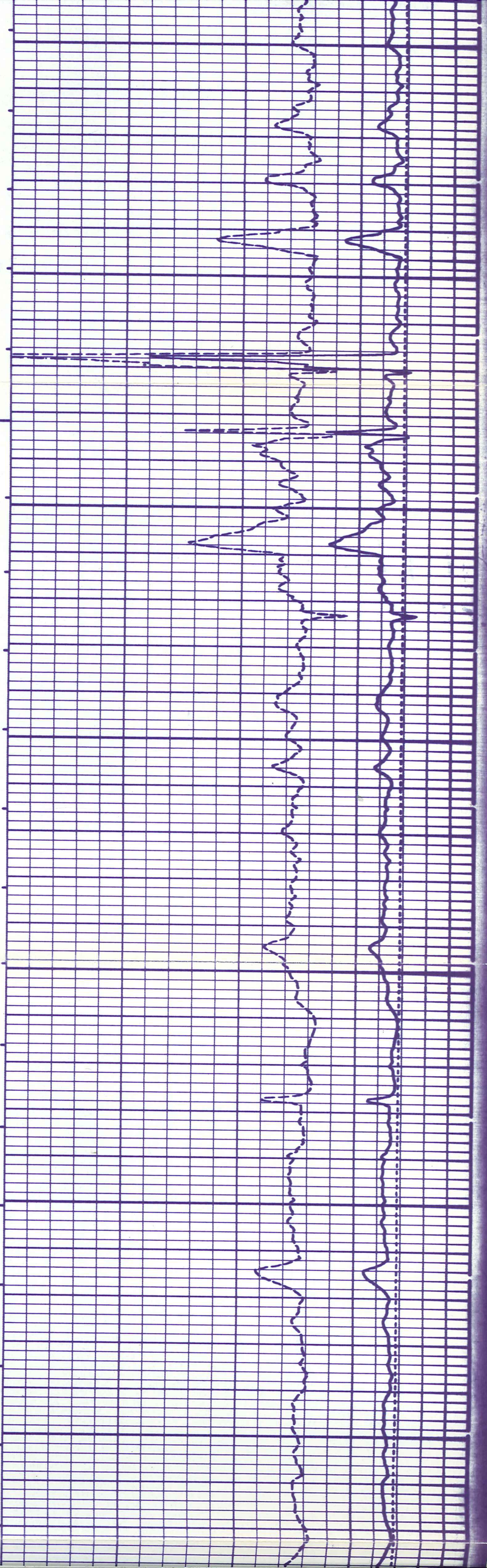


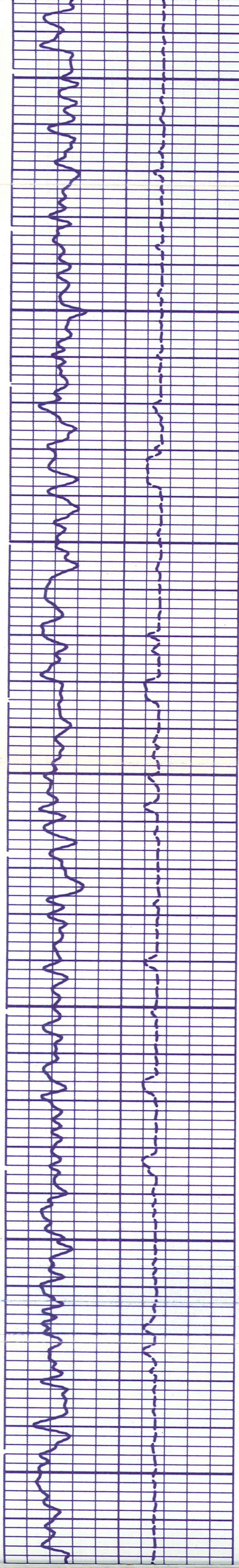


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9100

9200

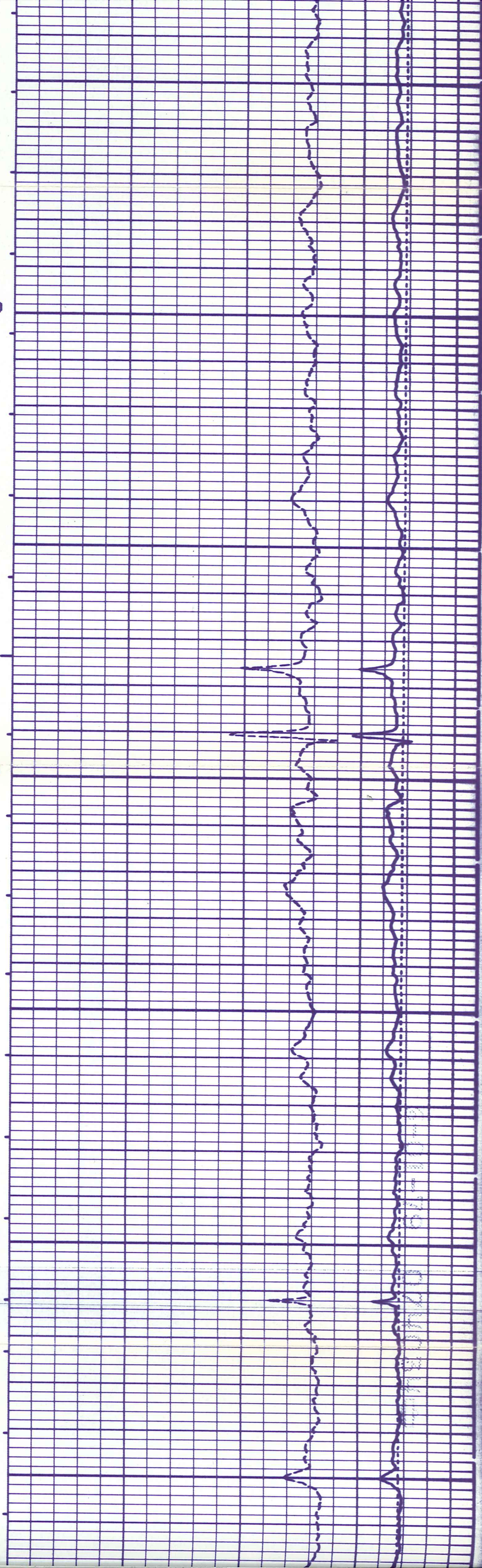




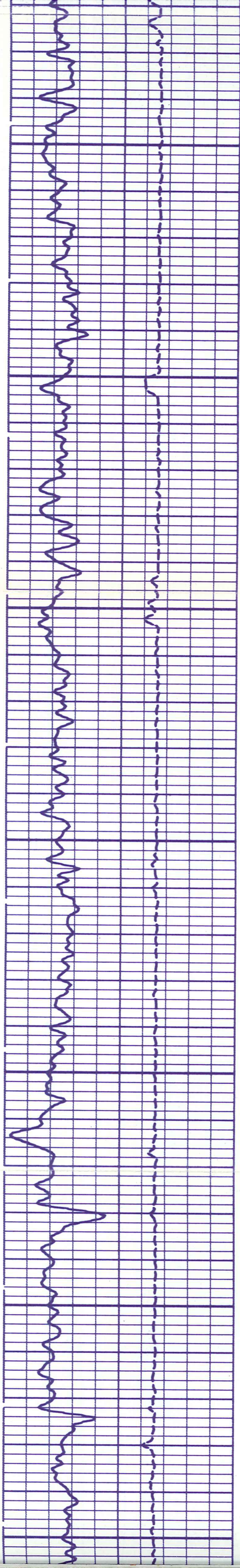
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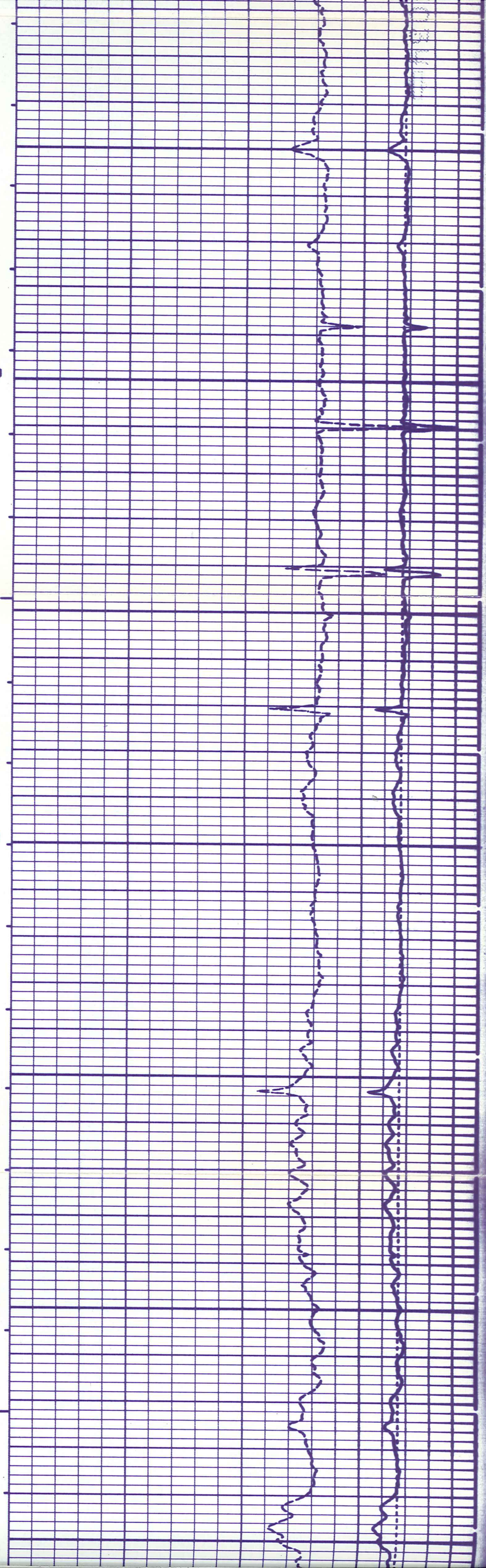
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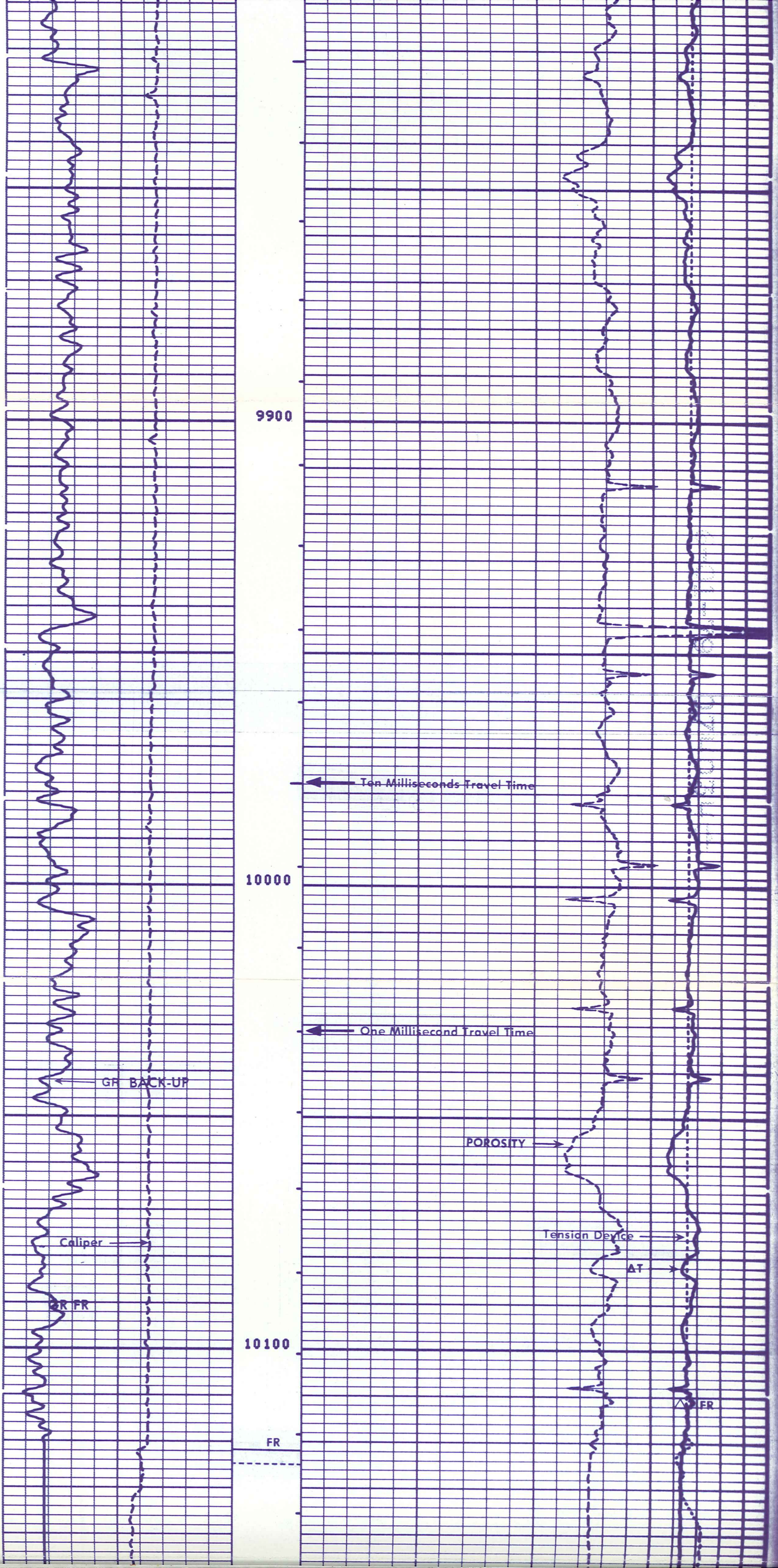


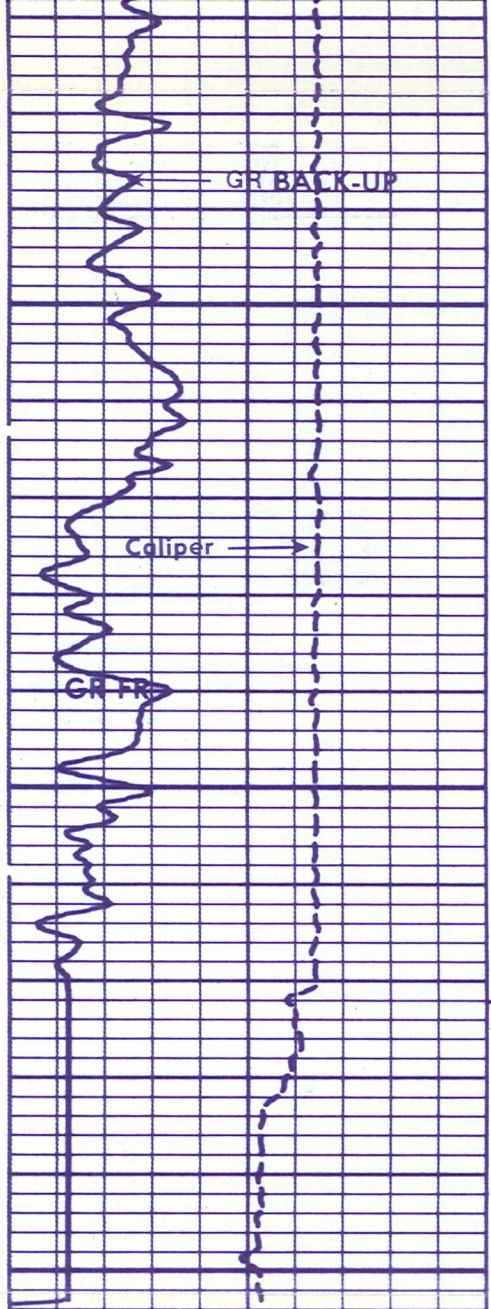
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9800

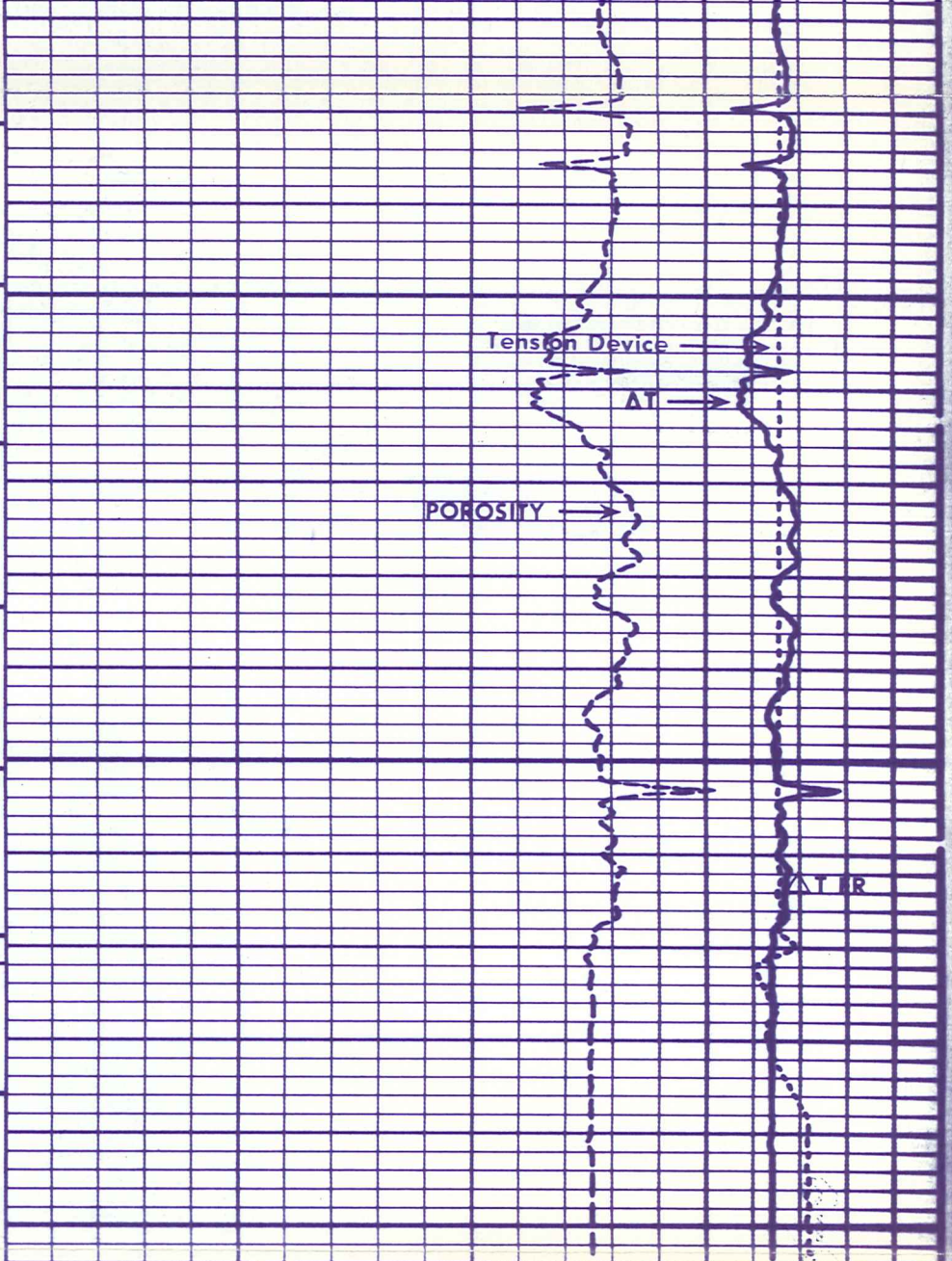






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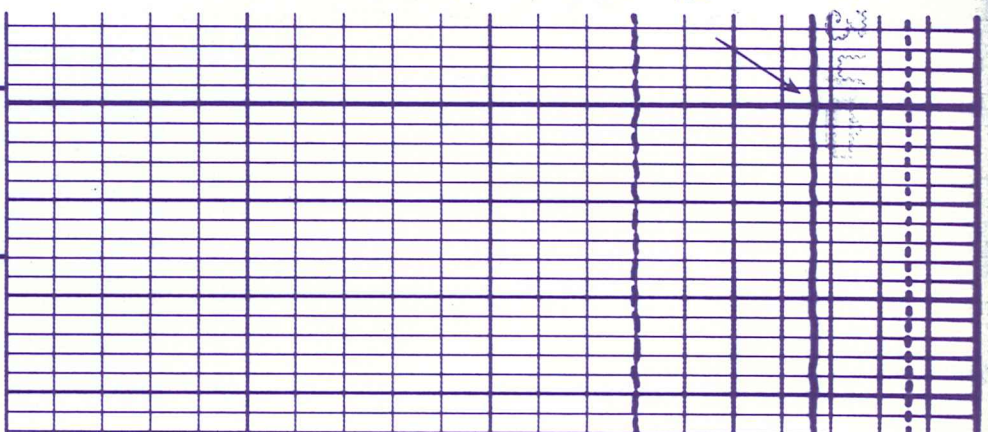
FR



REPEAT SECTION

NNNNN

WWWWW



WWWWW

CAL(SIN)	
6.000	16.00
GR (GAPI)	
0.0	150.0

TENS(LB)	
10000.	0.0
DT (US/F)	
140.0	40.00
DT (US/F)	
240.0	140.0
SPHI()	
0.3000	0.100

NNNNN

Run 1 BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 79/03/27
 PROGRAM FILE: IS (VERSION 12.4A 78/12/ 8)

6-01-79

0740344

6-01-79

0740344

Run 1 BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 79/03/27
 PROGRAM FILE: IS (VERSION 12.4A 78/12/ 8)

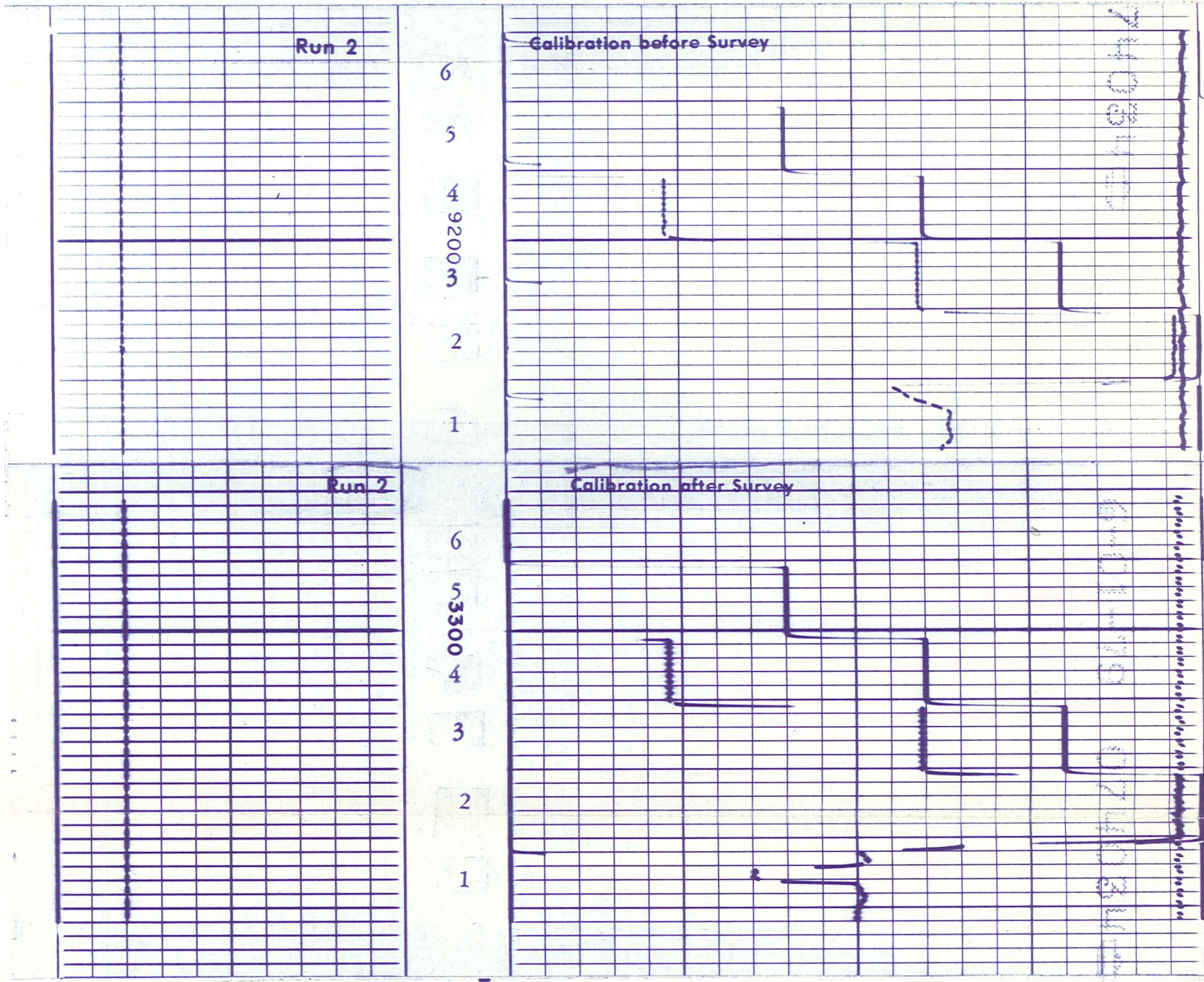
SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED		CALIBRATED	UNITS
GR	BKGD	JIG	164	GAPI
	41	182		

VCDD CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		UNITS
CALI	SMALL	LARGE	SMALL	LARGE	IN
	6.6	12.0	7.9	11.9	

4
4
4
4
4



6-01-79 074034

Run 3 BEFORE SURVEY CALIBRATION SUMMARY

PERFORMED: 79/05/18
 PROGRAM FILE: IS (VERSION 12.4A 78/12/ 8)

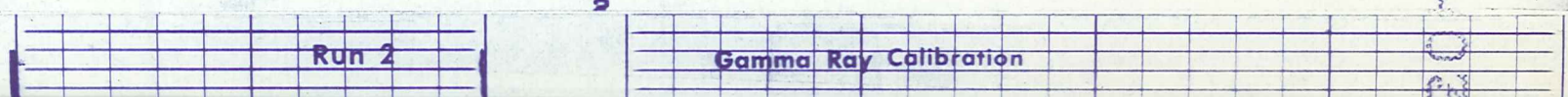
SGTE DETECTOR CALIBRATION SUMMARY

	MEASURED		CALIBRATED	UNITS
GR	BKGD	JIG	164	GAPI
	44	189		

MCDB CALIPER CALIBRATION SUMMARY

	MEASURED		CALIBRATED		UNITS
CALI	SMALL	LARGE	SMALL	LARGE	IN
	4.2	8.1	8.0	12.0	

2
2
2



6-01-79 074035

3

1

BOREHOLE COMPENSATED SONIC CALIBRATION CODING

- 1. MECHANICAL ZERO
- 2. 40 μ SEC/FT
- 3. 60 μ SEC/FT
- 4. 80 μ SEC/FT
- 5. 100 μ SEC/FT
- 6. 140 μ SEC FT

GAMMA RAY CALIBRATION CODING

- 1. MECHANICAL ZERO
- 2. ELECTRICAL ZERO
- 3. RECORDER SENSITIVITY
- 4. MEMORIZER ADJUSTMENT
- 5. BACKGROUND
- 6. CALIBRATION



GL02576

FILE_CAB_15_DRAWER_1