



COMPENSATED

Densilog

FILE NO. R-357

COMPANY AERO JET NUCLEAR INEL

GL02601

WELL RRGE #3

FIELD RAFT RIVER GEOTHERMAL

COUNTY CASSIA STATE IDAHO

LOCATION:

SE/NW

SEC 25 TWP 15S RGE 26E

Other Services

CN/GR/BHC
AL/CAL/DIPL
DIFF. TEMP
CALIPER LOG

Permanent Datum GROUND LEVEL Elev. 4860
Log Measured from GROUND LEVEL Ft. Above Permanent Datum
Drilling Measured from R.K.B.

Elevations:

KB 4878
DF 4876
GL +860

Date	4/17/76	5/3/76		
Run No.	TWO	THREE		
Depth—Driller	4259	5868		
Depth—Logger	4211	5865		
Bottom Logged Interval	4209	5863		
Top Logged Interval	1384	4247		
Casing—Driller	13 3/8 @ 1385	9 5/8 @ 4255	@	@
Casing—Logger	1384	4247		
Bit Size	12 1/4	8 1/2		
Type Fluid in Hole	FRESH WATER	FRESH WATER		
Density and Viscosity				
pH and Fluid Loss			cc	cc
Source of Sample	FLOWLINE	FLOWLINE		
Rm @ Meas. Temp.	3.30 @ 71 °F	.70 @ 94 °F	@ °F	@ °F
Rmf @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	@ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M M			
Rm @ BHT	@ 135 °F	.228 @ 288 °F	@ °F	@ °F
Time Since Circ.	16 HOURS			
Max. Rec. Temp. Deg. F.	135 °F	293 °F	°F	°F
Equip. No. and Location	6089 RSVLT	6089 RSVLT		
Recorded By	MCCALL	KUKAL		
Witnessed By	MS. PRIESTWICH			

FOLD HERE
Remarks: RUN 3-LOGGED 5' SHALLOW WITH OTHER LOGS.
REPEAT RUN JUST BELOW CALIPER BECAUSE OF HIGH BOREHOLE TEMP.

Equipment Used

Series No.	2208	2207	1305
Run No.	TWO	THREE	THREE
S.O.	41262	41264	41264
Tool No.	29523	29090	29719
Elec. No.	29523	29090	29719
Panel No.	26313	26313	26313

Densilog

Equipment Data

Gamma Ray		Densilog	
Run No.	Tool Model No.	Run No.	Tool Model No.
TWO	THREE	TWO	THREE
1305	1305	2208	2207
29719	29719	29523	29090
3 5/8"	3 5/8"	3"	4 3/4"
D6G4	D6G4	2254	2254
SCINT	SCINT	26318	26313
6"	6"	S3E20	S3E20
10'	8'	C-116	L22

General

Hoist Truck No.
Auxiliary Equipment

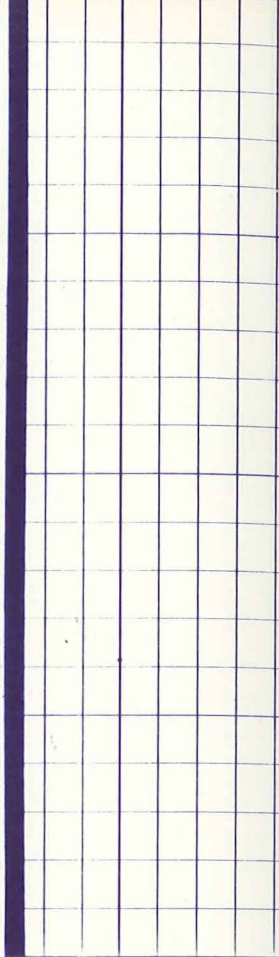
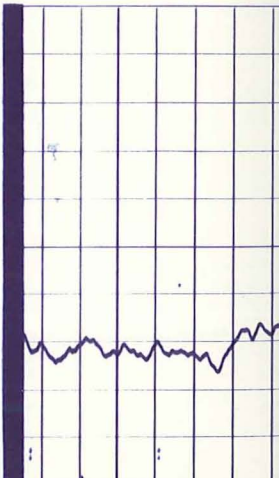
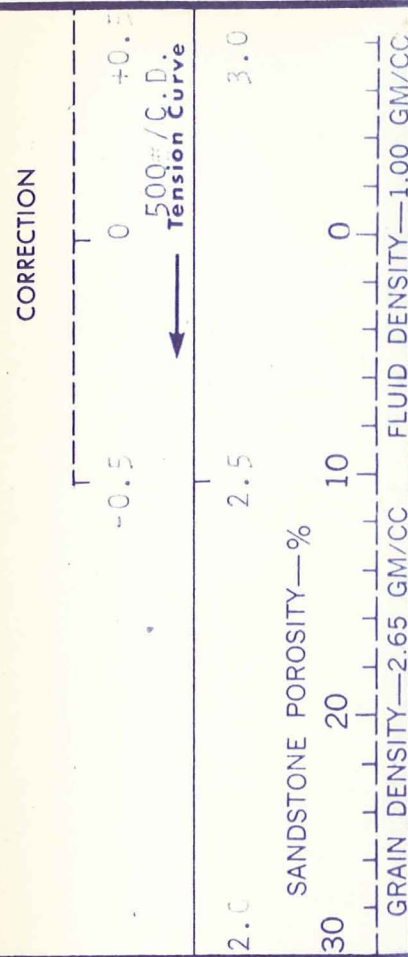
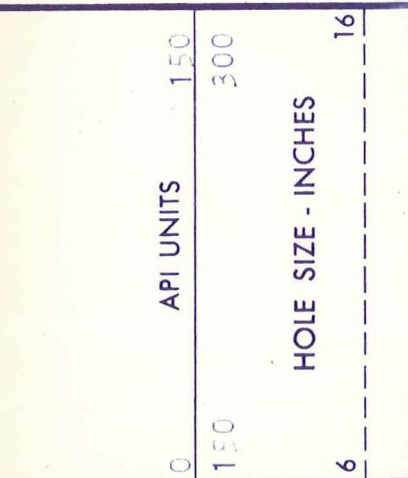
Logging Data

General		Densilog		Gamma Ray							
Run No.	From	To	Speed Ft./Min.	T.C. Sec.	Density Scale	Correction Scale	Porosity Scale Data	T.C. Sec.	Sens. Settings	Zero Div. L or R	API G.R. Units/Div.
2	4209	1384	REC	CCTC	2.0-3.0	- .5 + .5	2//C.D.	CCTC	462	ZERO	15
3	5863	4247	30	ATC	2.0-3.0	- .5 + .5	0-30% SS	3	440	ZERO	15

GAMMA RAY & CALIPER

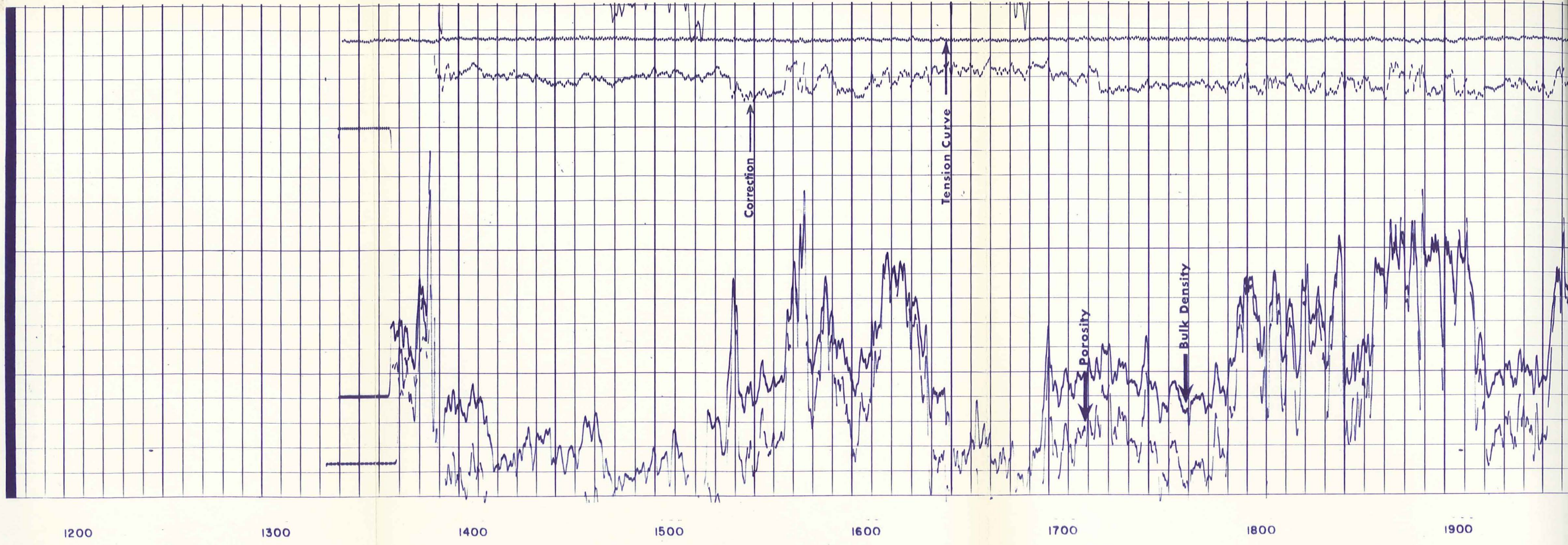
DEPTH

BULK DENSITY GRAMS/CC

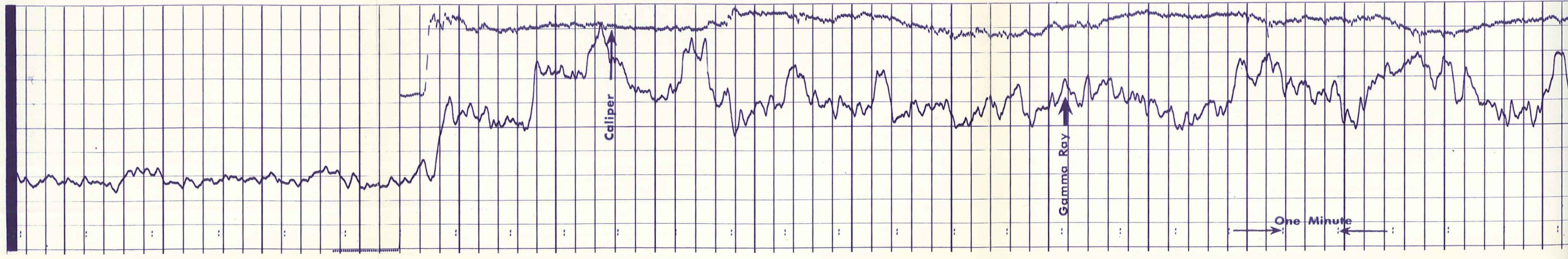


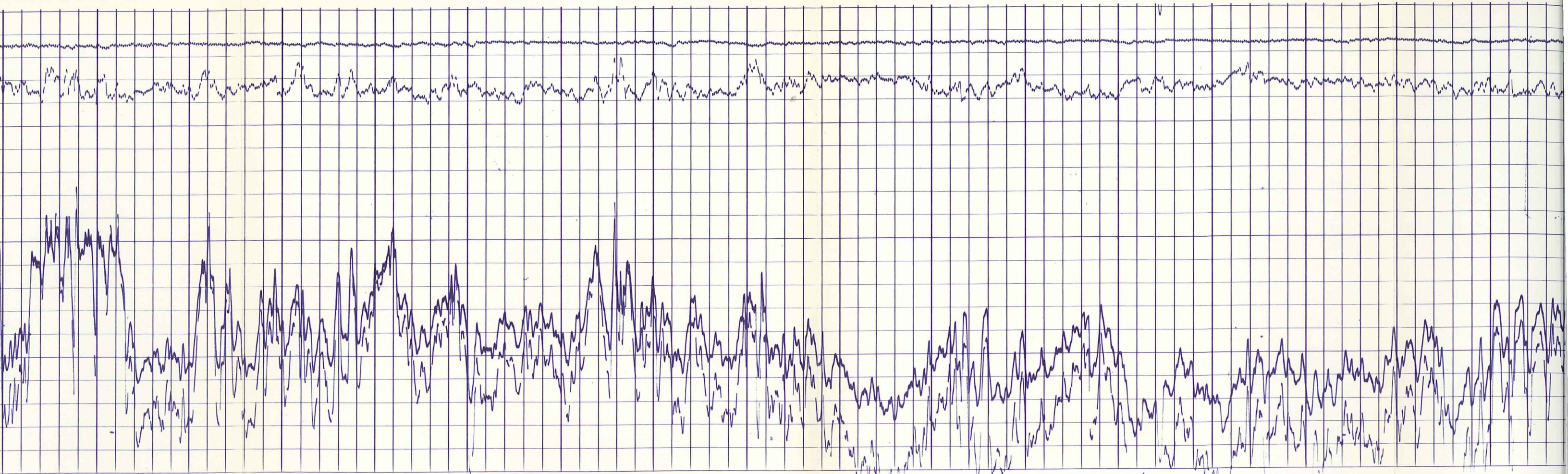
1200

SANDSTONE POROSITY—%
0
10
20
30
GRAIN DENSITY—2.65 GM/CC
FLUID DENSITY—1.00 GM/CC



HOLE SIZE - INCHES
6
16





1900

2000

2100

2200

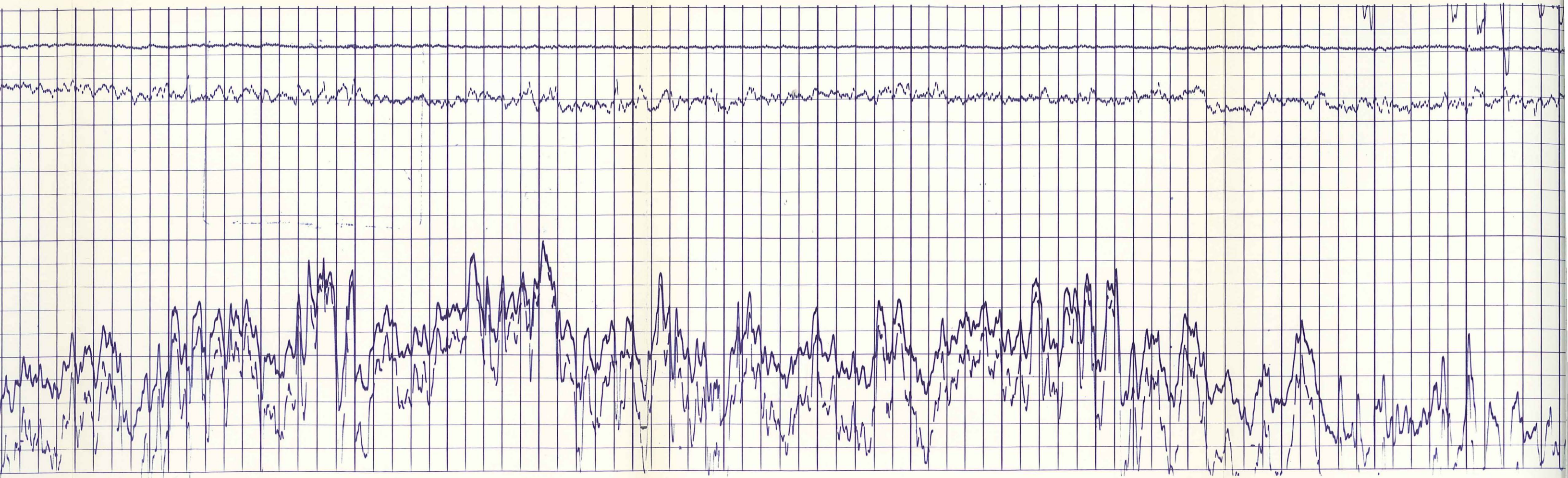
2300

2400

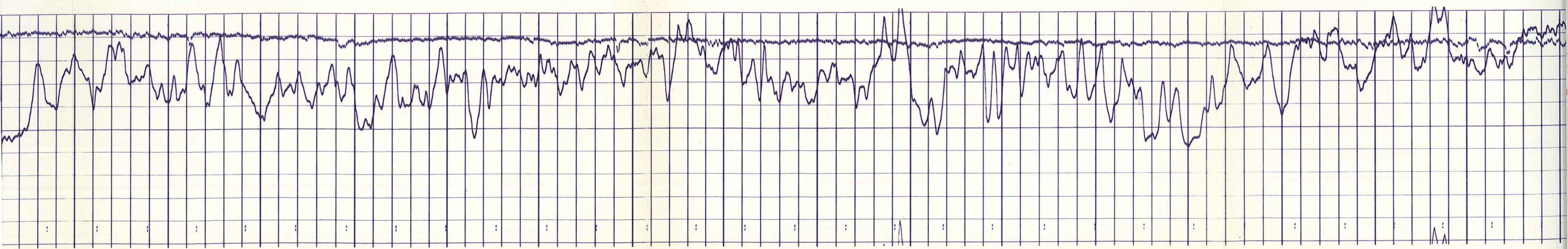
2500

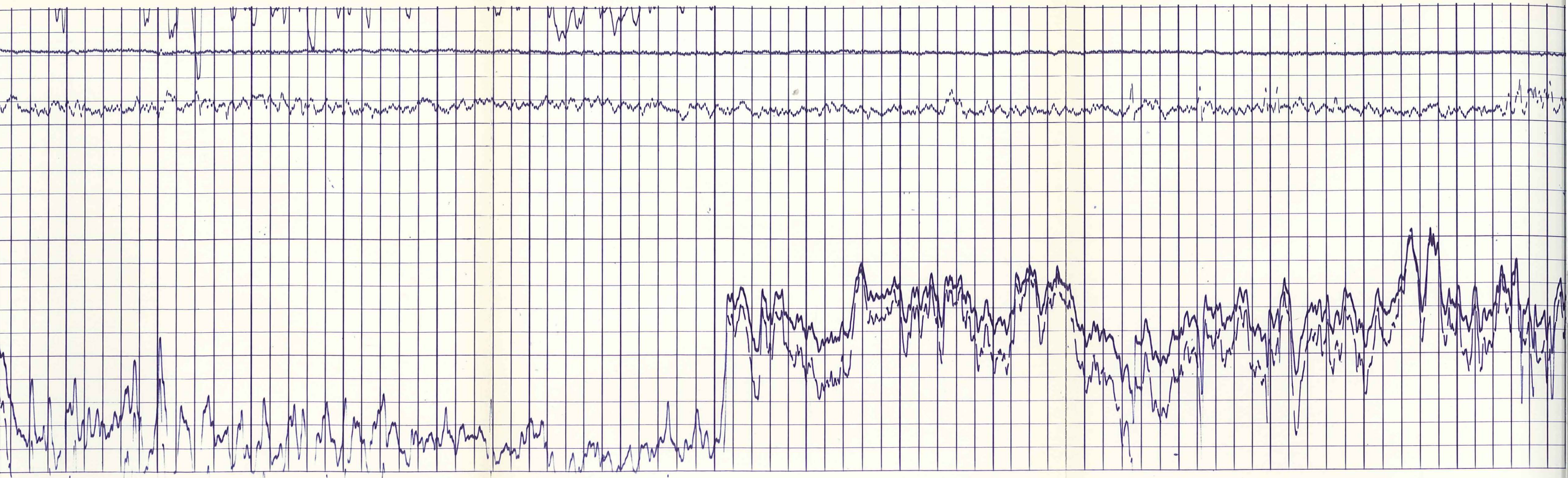
2600





2600 2700 2800 2900 3000 3100 3200 3300 3





3300

3400

3500

3600

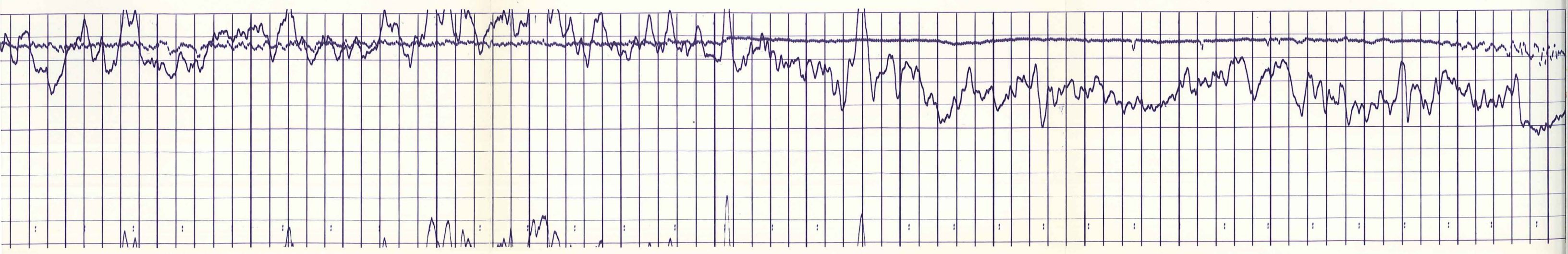
3700

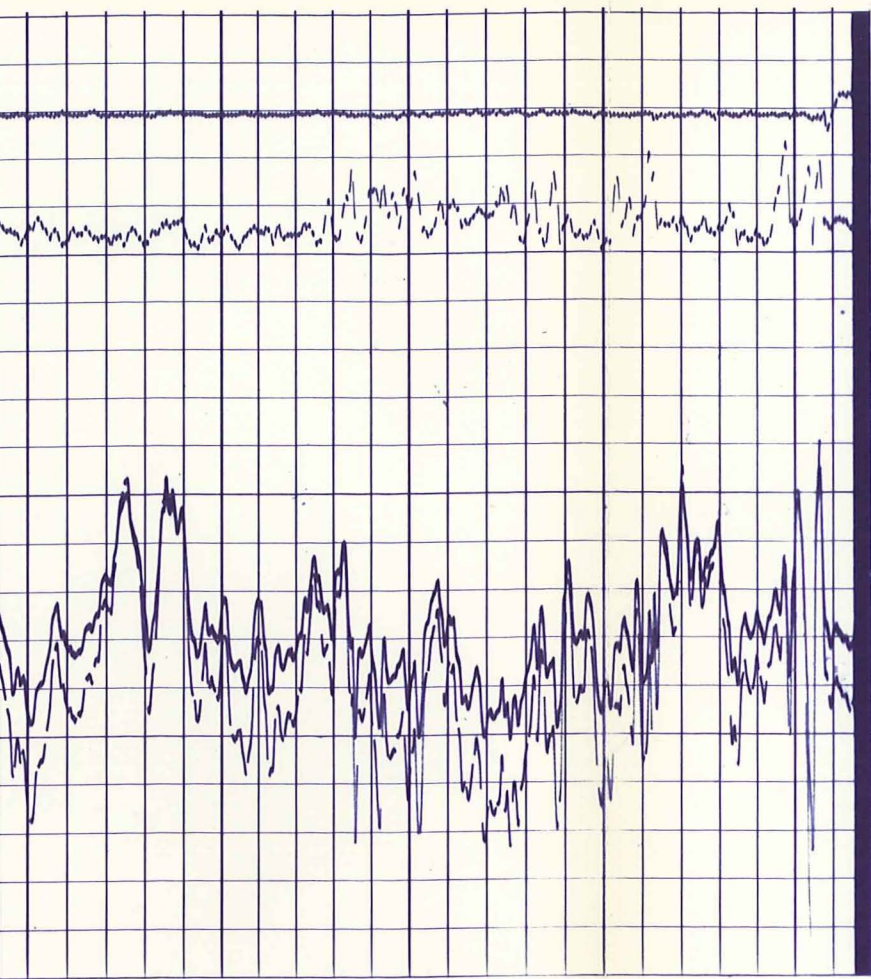
3800

3900

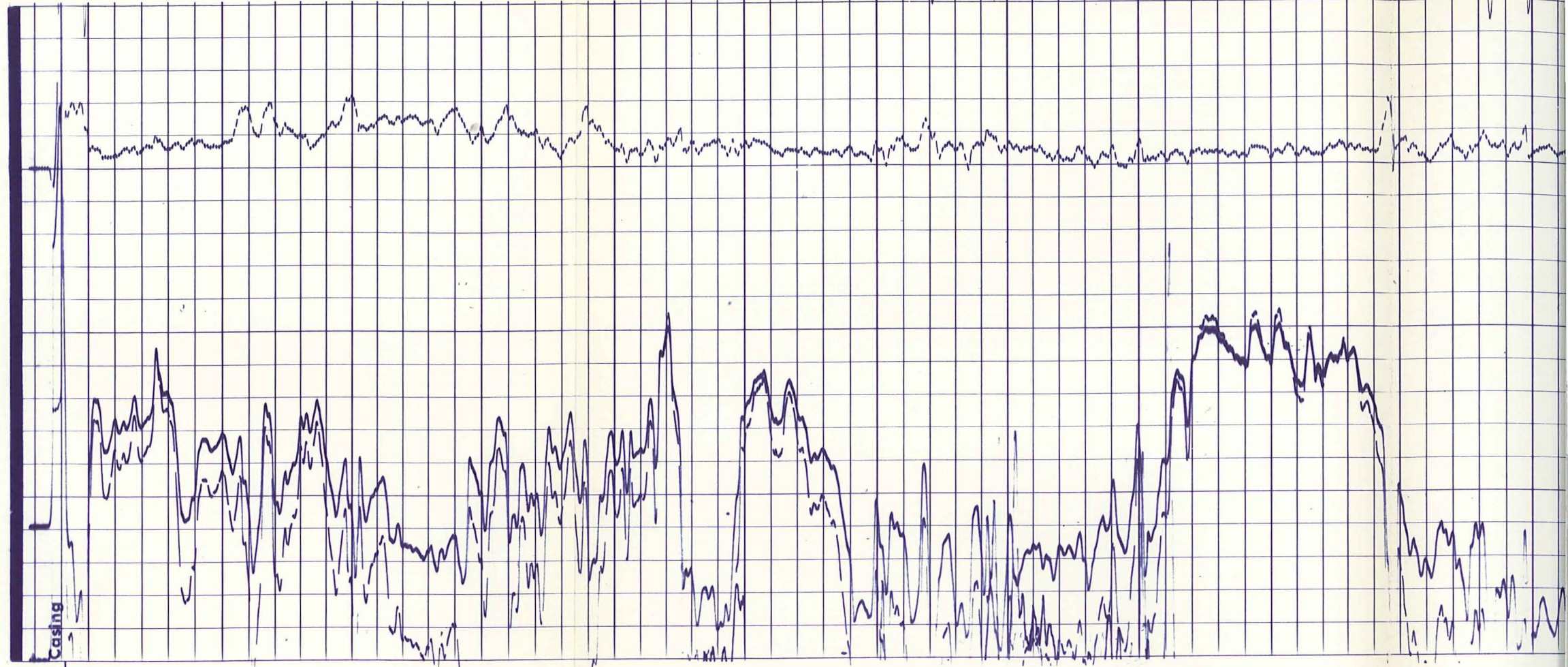
4000

4100



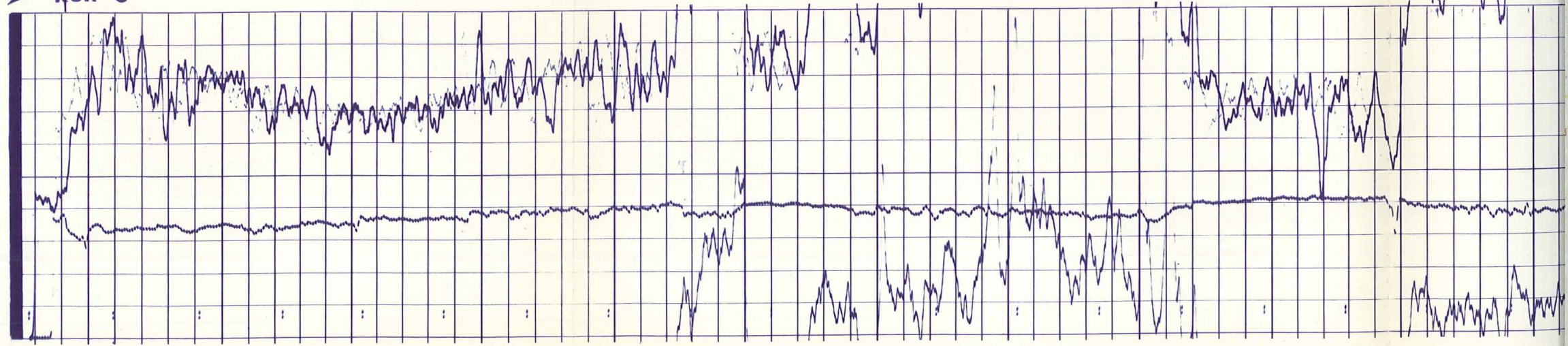
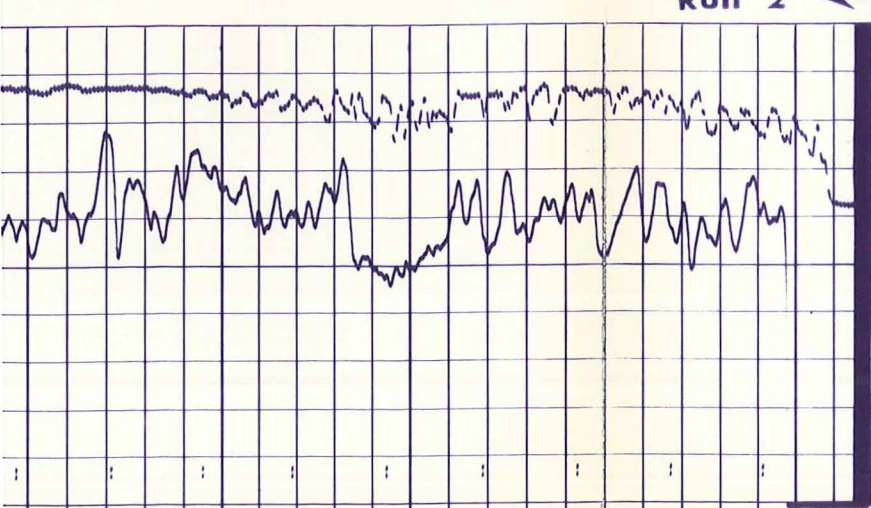


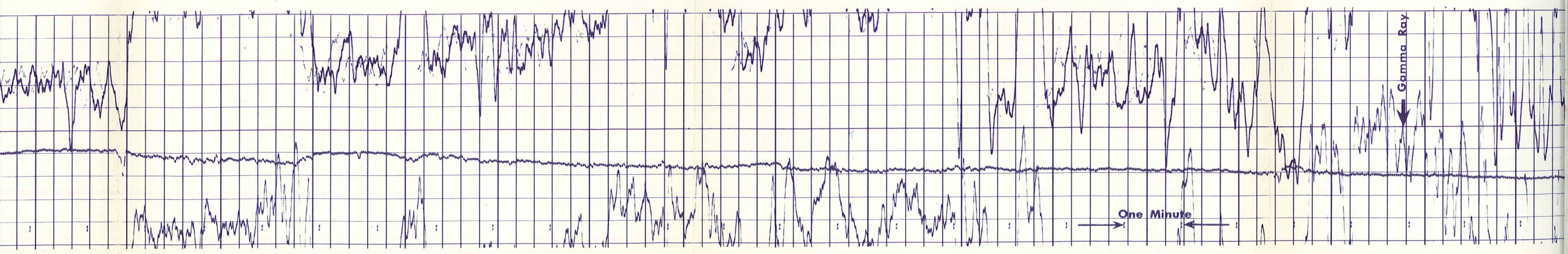
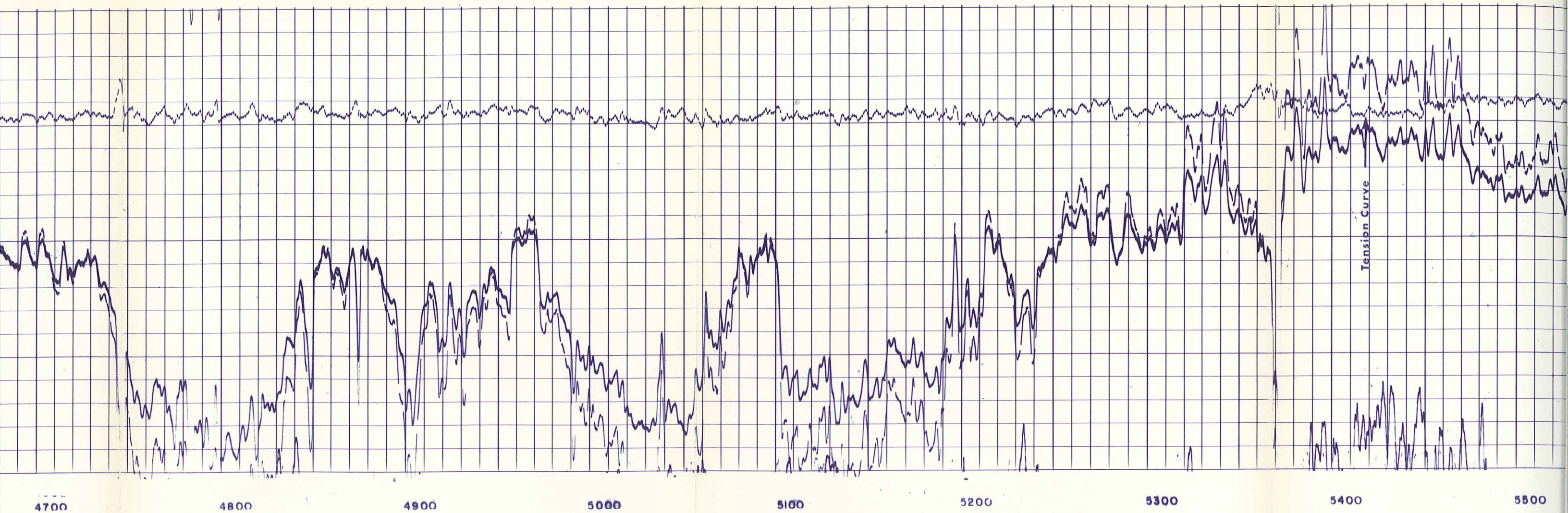
4000 4100 4200

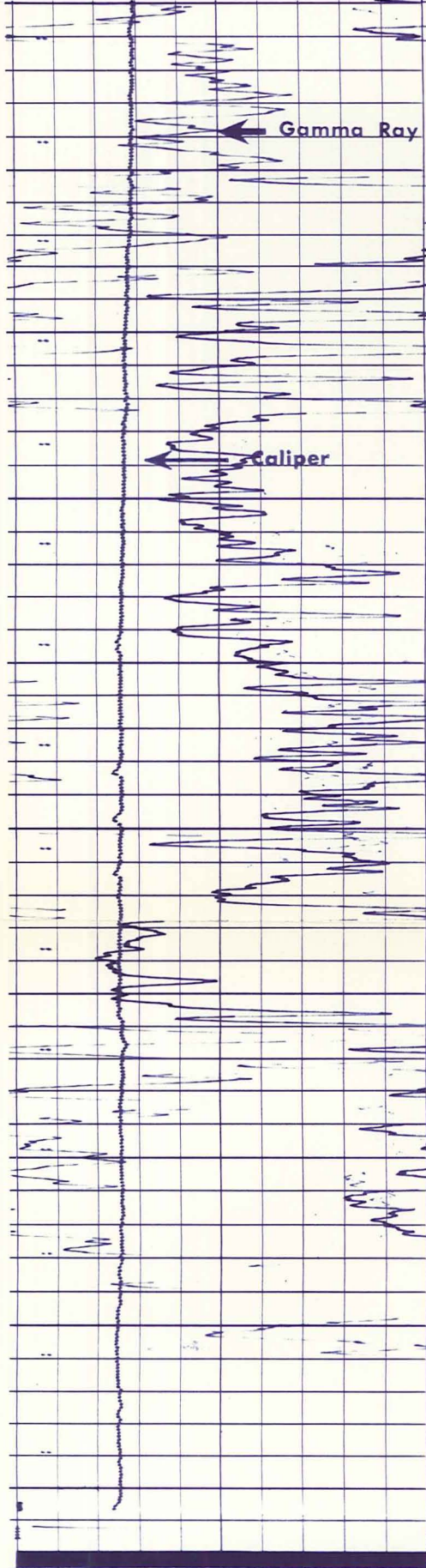


4300 4400 4500 4600 4700 4800

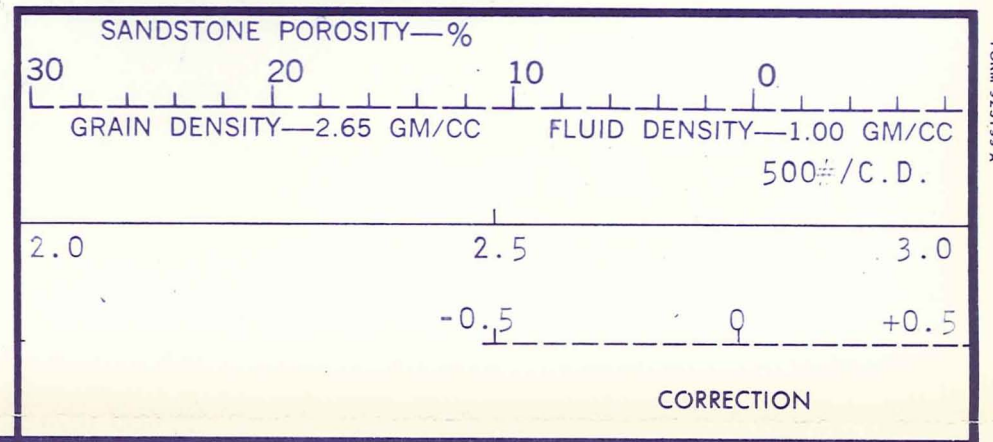
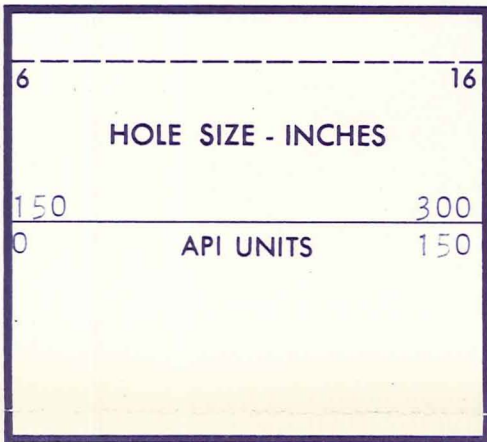
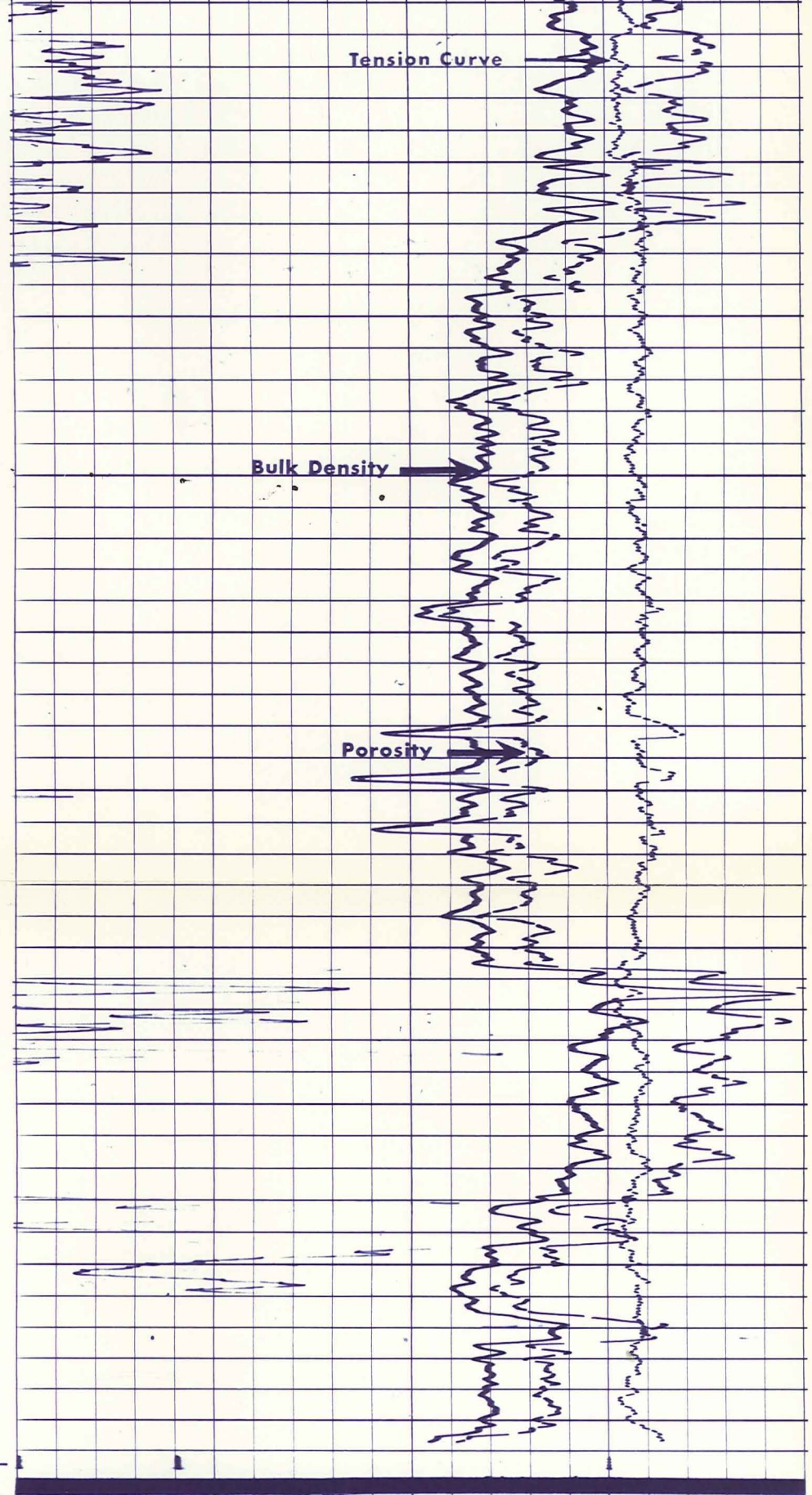
Run 2 ← | → Run 3







5400
5500
5600
5700
5800



GAMMA RAY & CALIPER		DEPTH	BULK DENSITY GRAMS/CC		
Company	AERO JET NUCLEAR INEL		Drillers T.D.	5868	
Well	RRGE #3		Log F.R.	5863	
Field	RAFT RIVER GEOTHERMAL		Log T.D.	5865	
County	CASSIA		Elevations:		
State	IDAHO		K.B.	4878	D.F. 4876 G.L. 4860

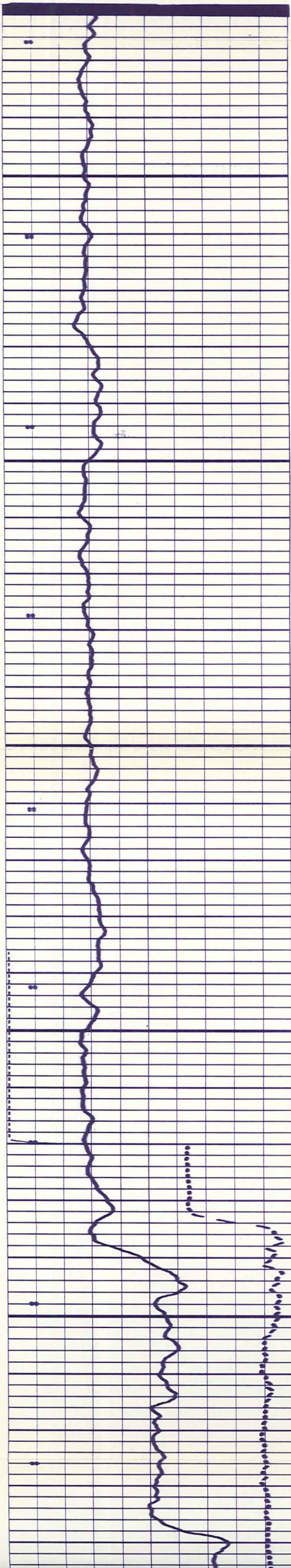
GAMMA RAY & CALIPER		DEPTH	BULK DENSITY GRAMS/CC		
			CORRECTION		
			-0.5	0	+0.5
0 API UNITS 150			2.0	2.5	3.0
150 300					
HOLE SIZE - INCHES			SANDSTONE POROSITY—%		
			← 500#/C.D. Tension Curve		

FORM 925198 A

GAMMA RAY & CALIPER		
0	API UNITS	150
150		300
HOLE SIZE - INCHES		
6		16

DEPTH

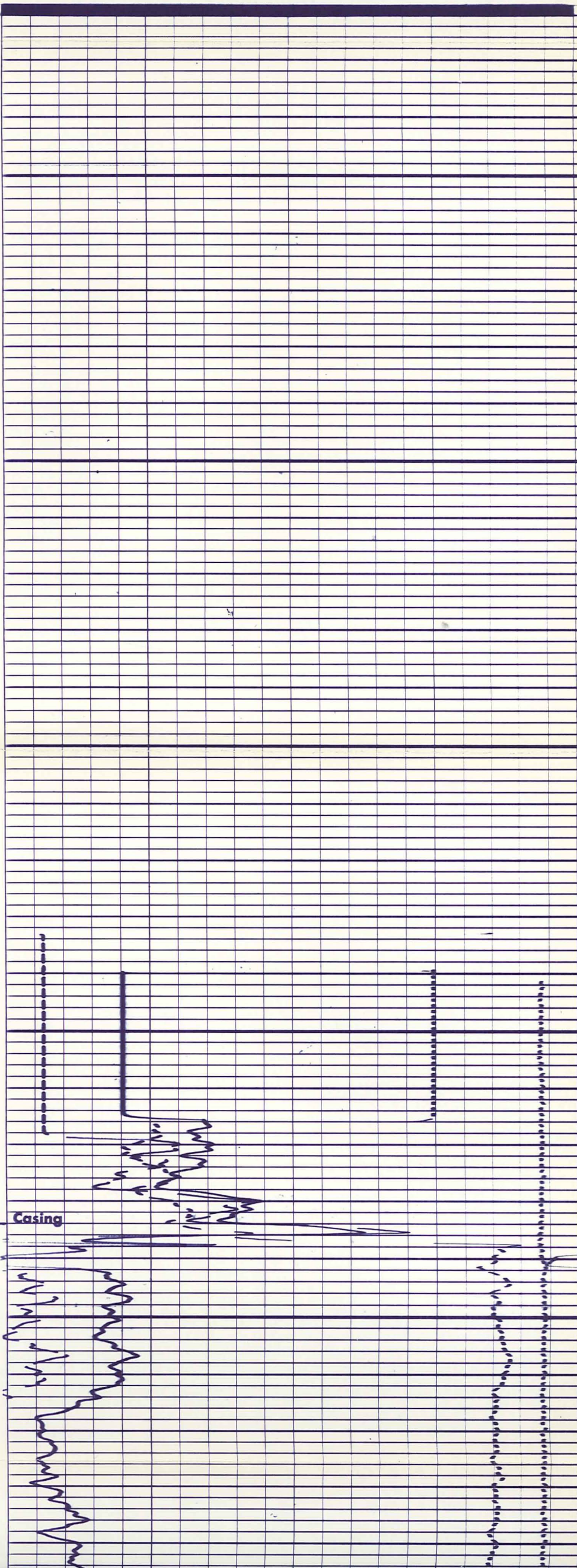
BULK DENSITY GRAMS/CC	
CORRECTION	
-0.5	+0.5
2.0	3.0
SANDSTONE POROSITY—% GRAIN DENSITY—2.65 GM/CC FLUID DENSITY—1.00 GM/CC	
← 500#/C.D. Tension Curve	



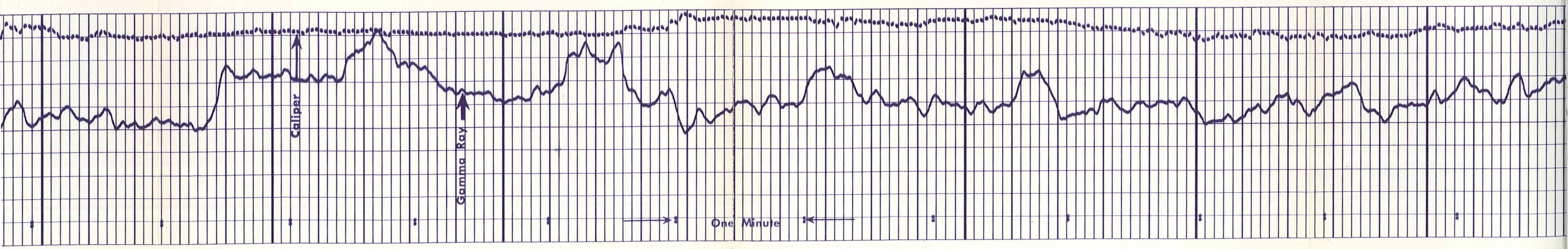
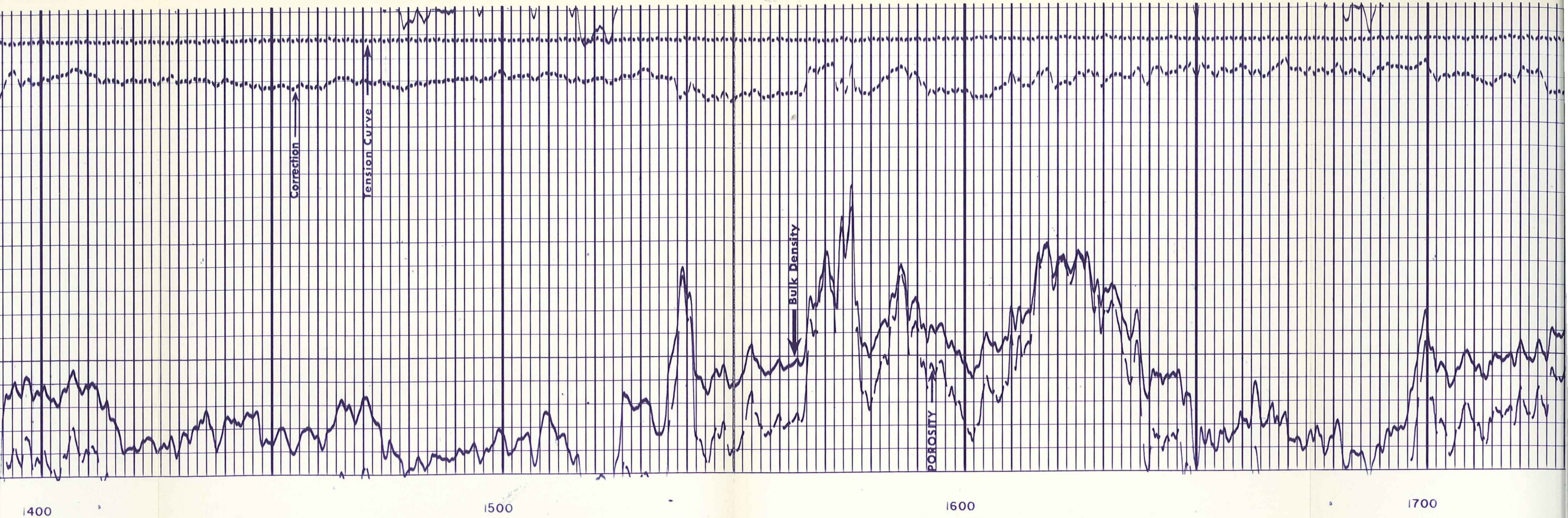
1200

1300

1400



Casing





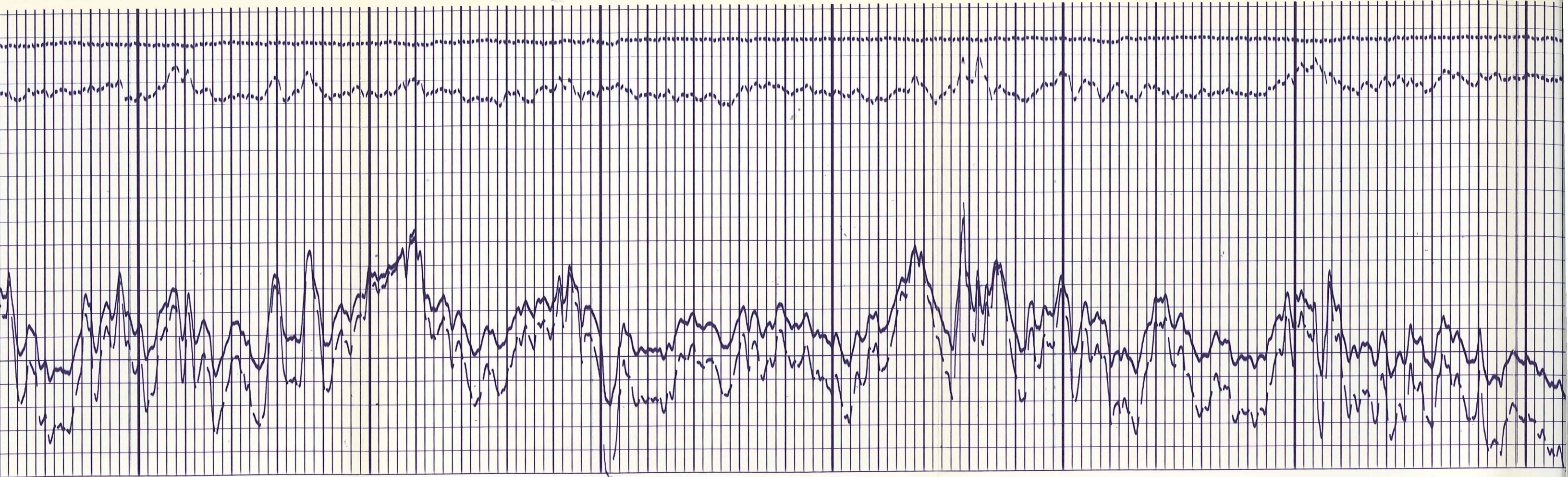
1700

1800

1900

2000



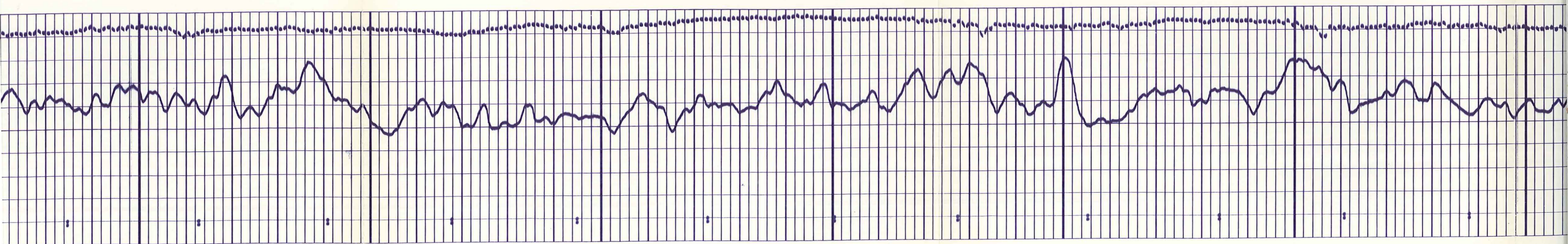


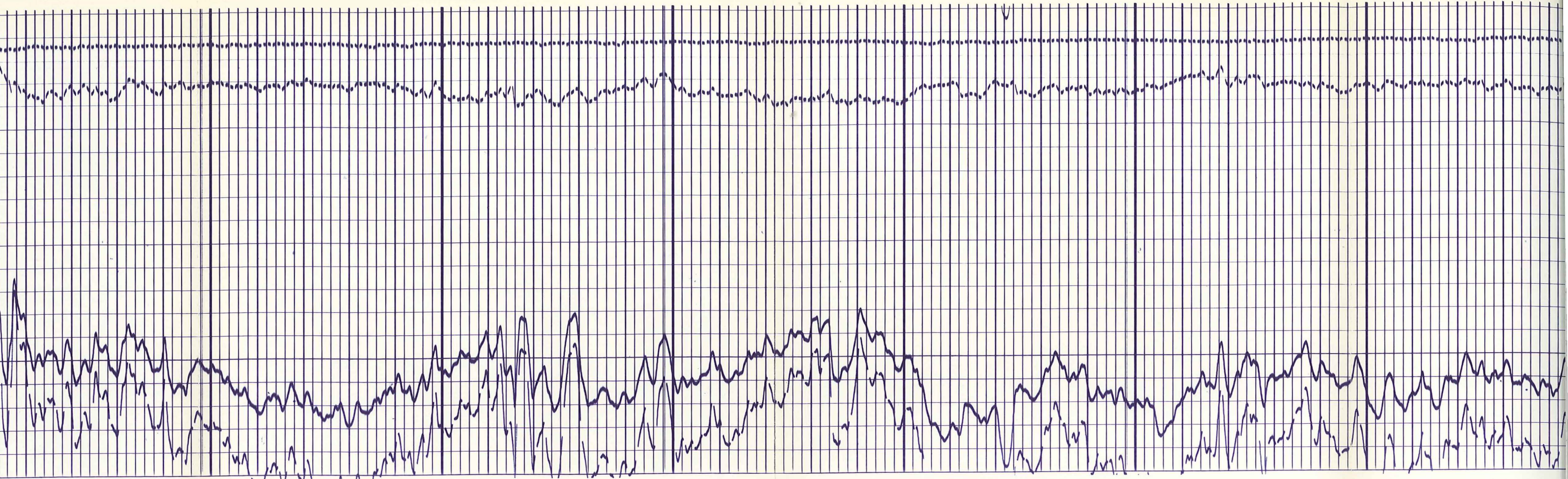
2000

2100

2200

2300



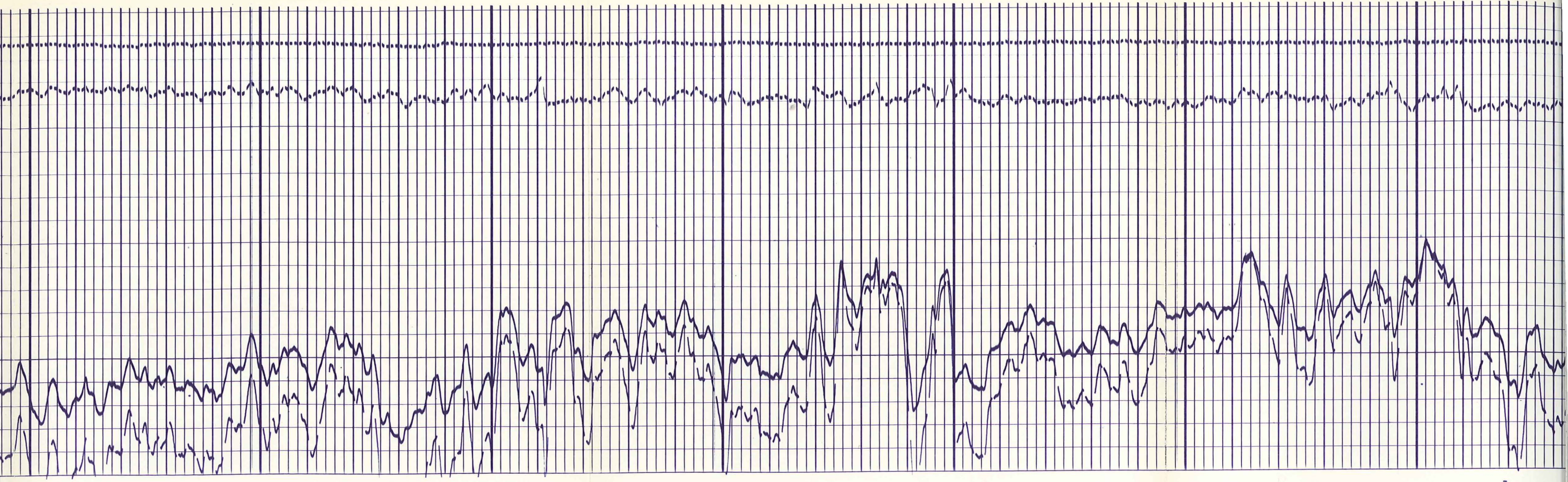


2300

2400

2500

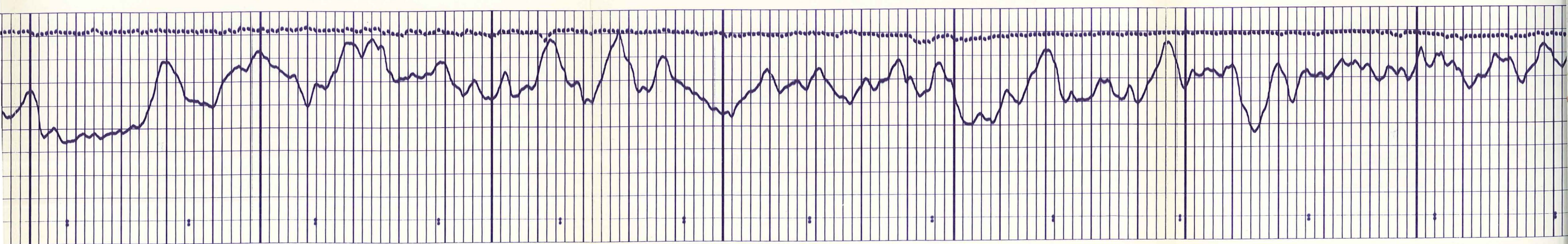


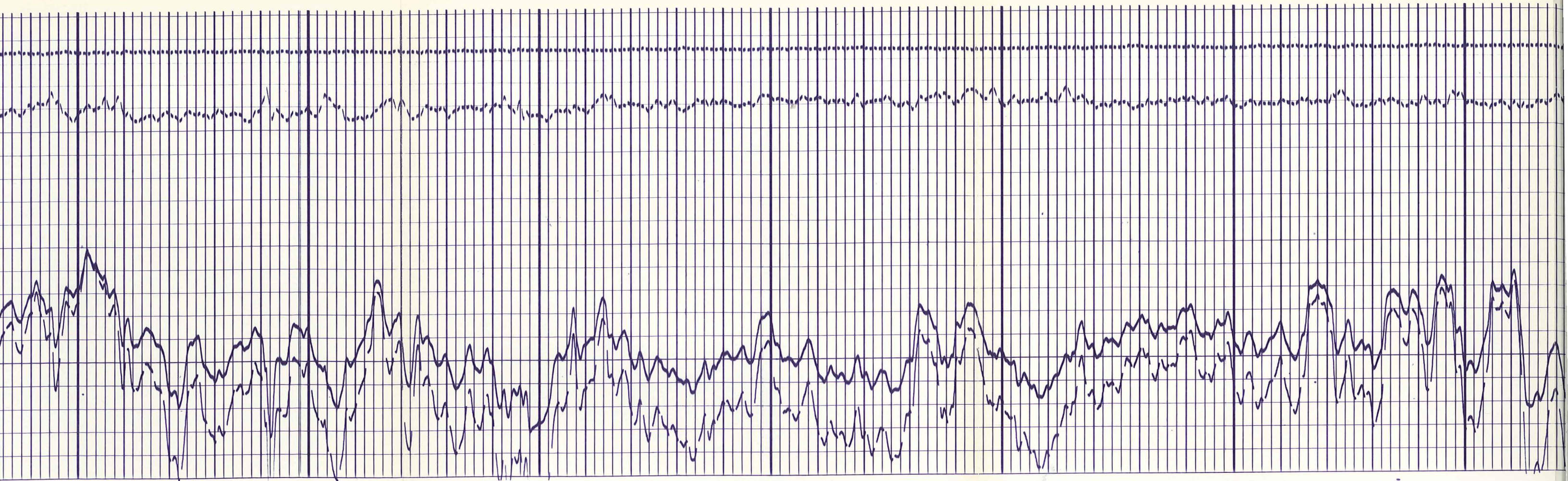


2600

2700

2800

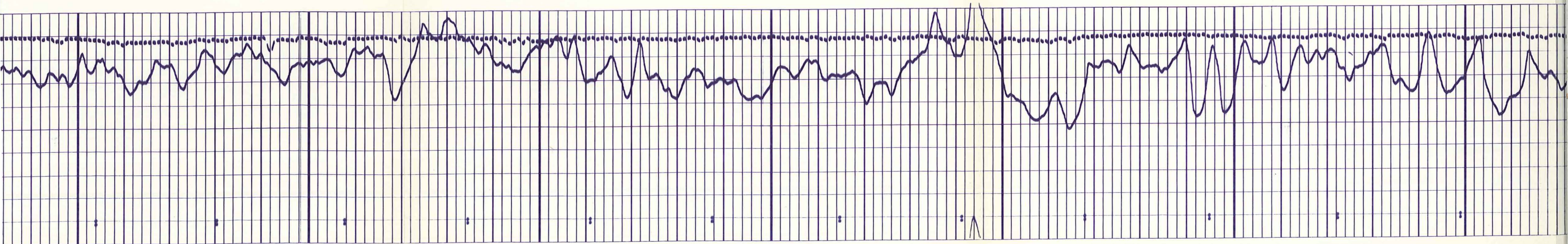


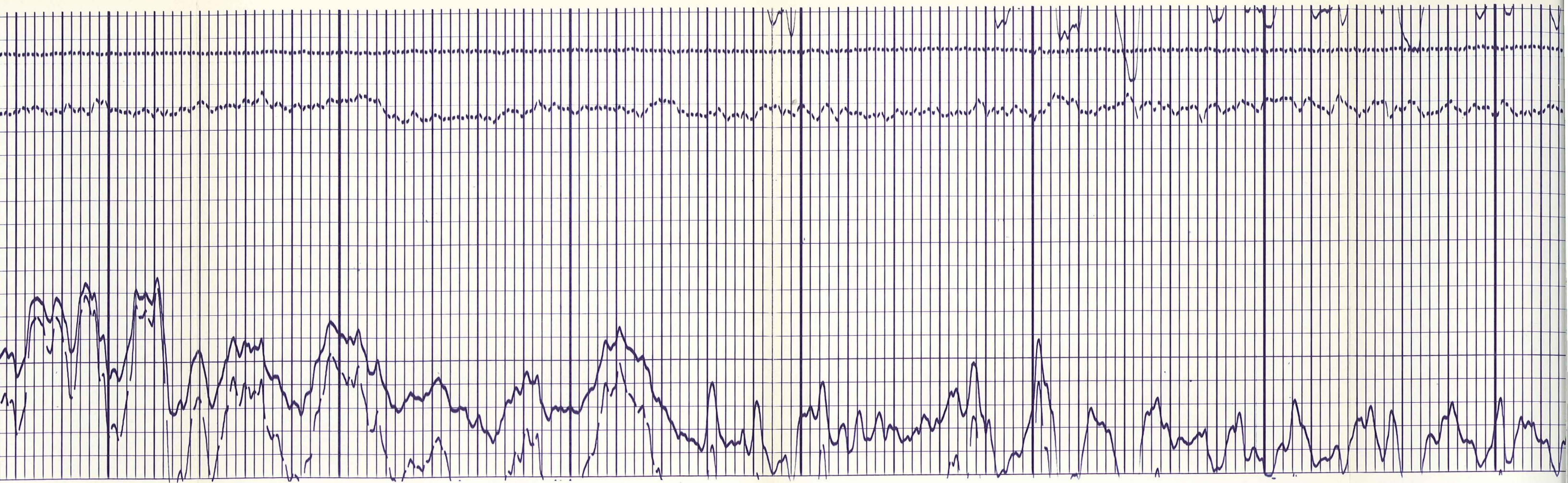


2900

3000

3100

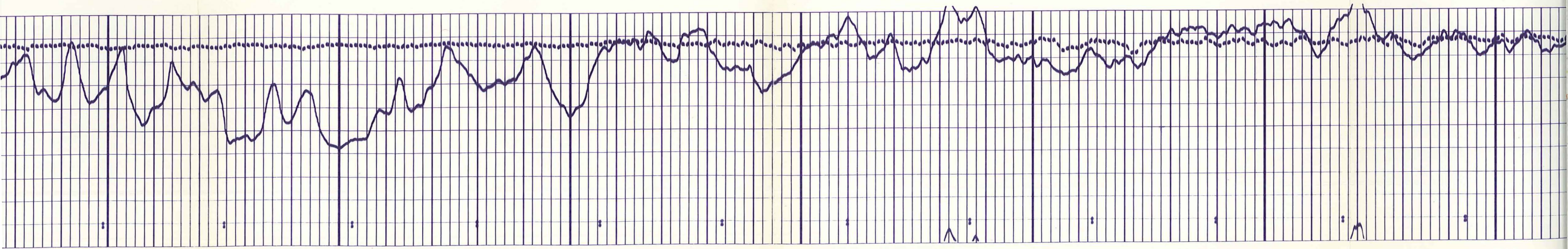


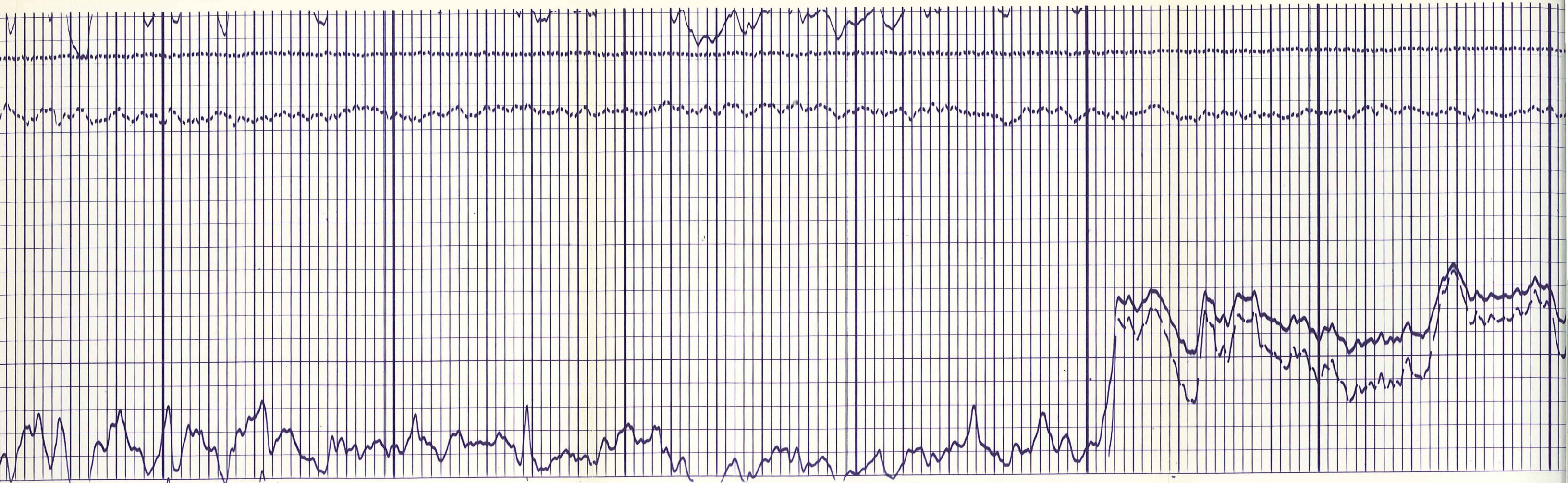


3200

3300

3400

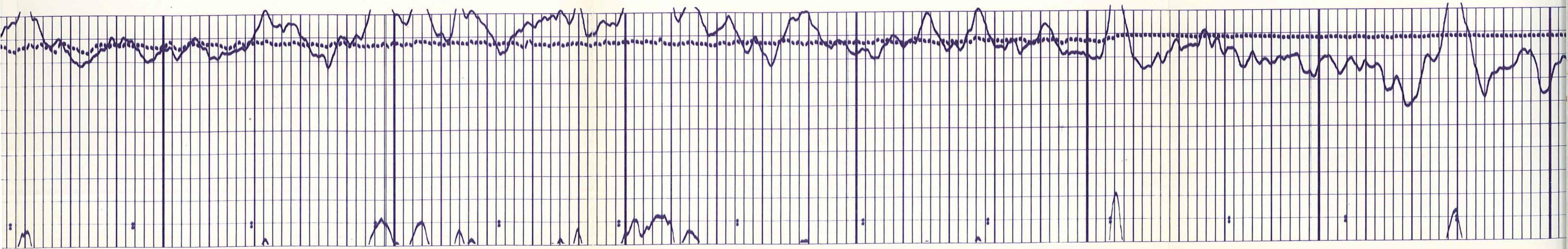


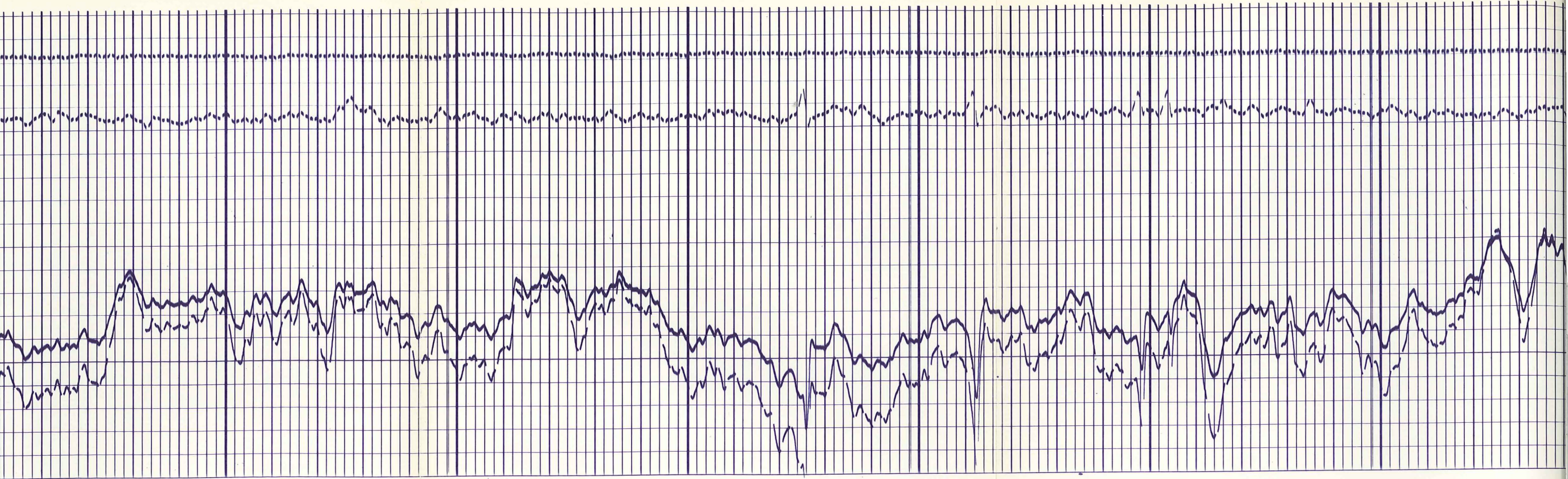


3500

3600

3700

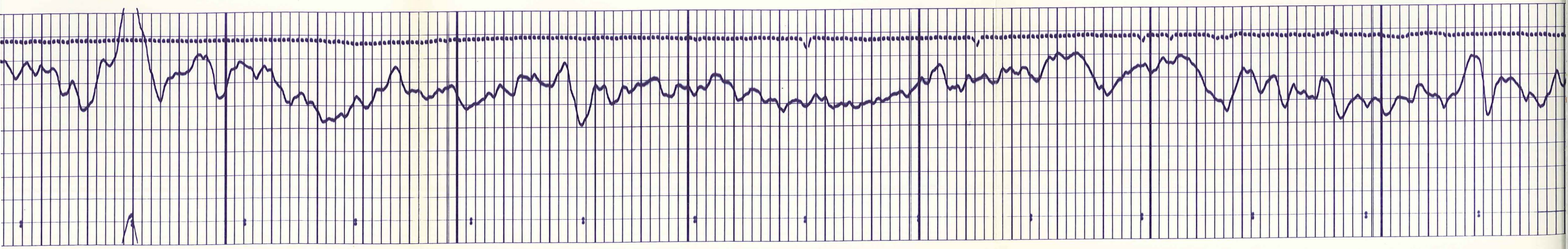


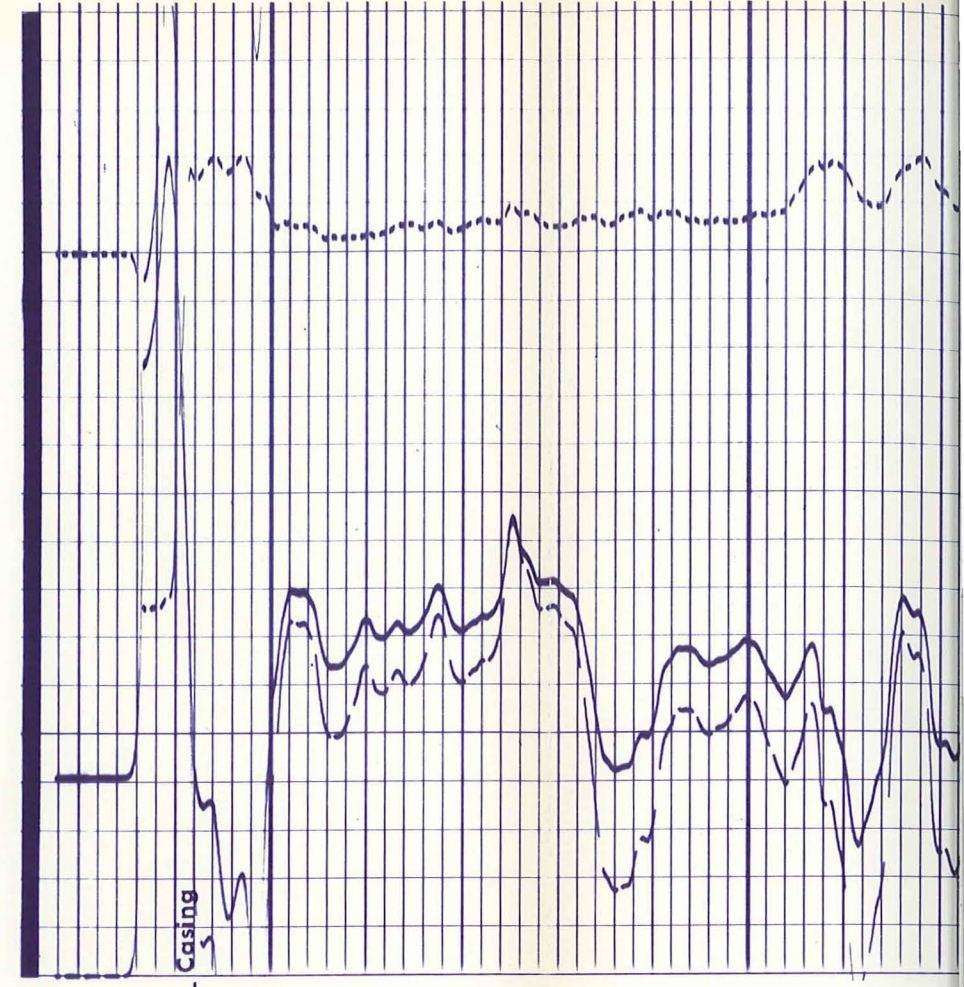
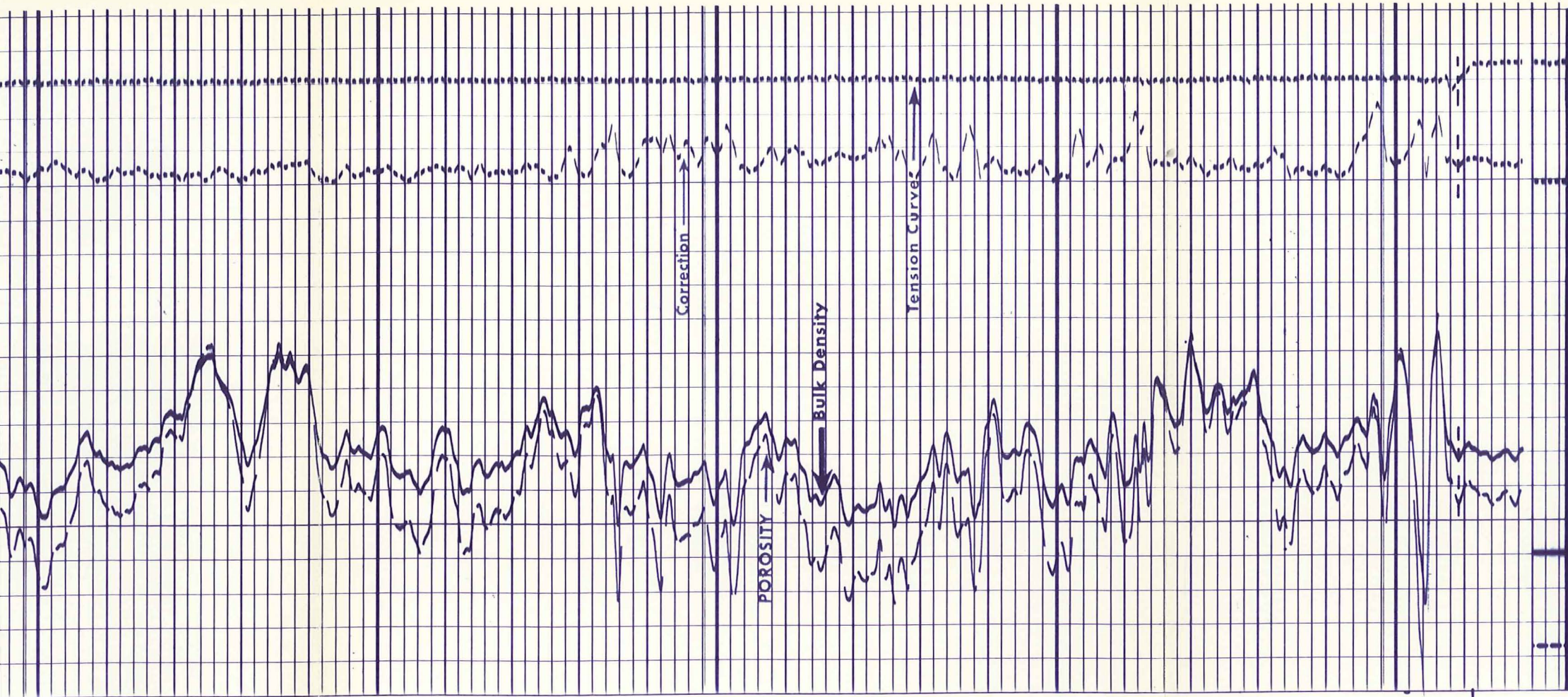


3800

3900

4000





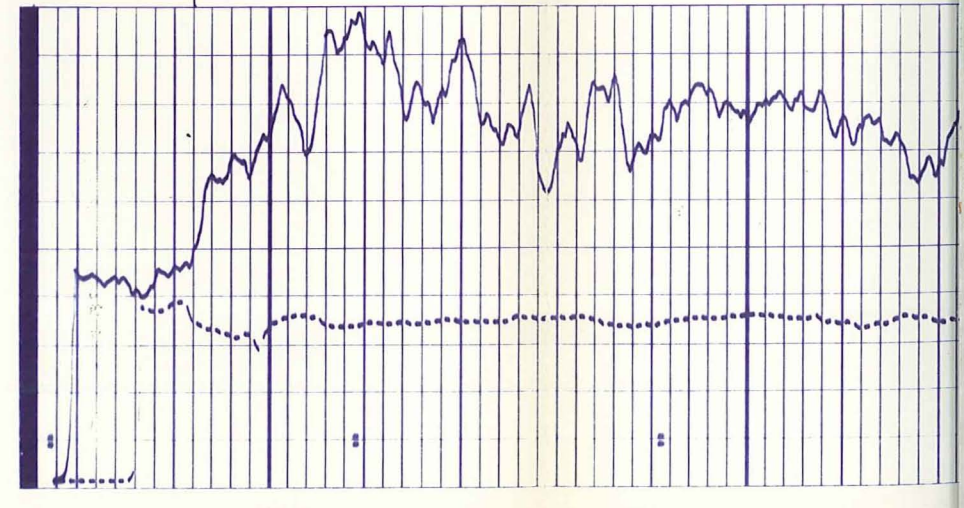
4000

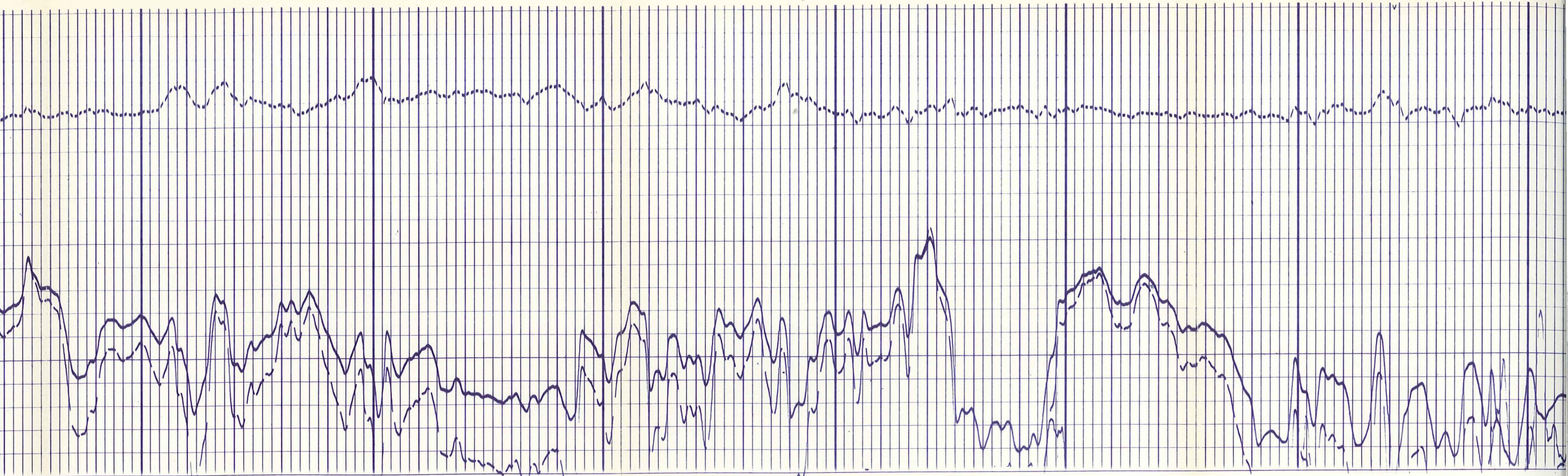
4100

4200

4300

Run 2 ← → Run 3



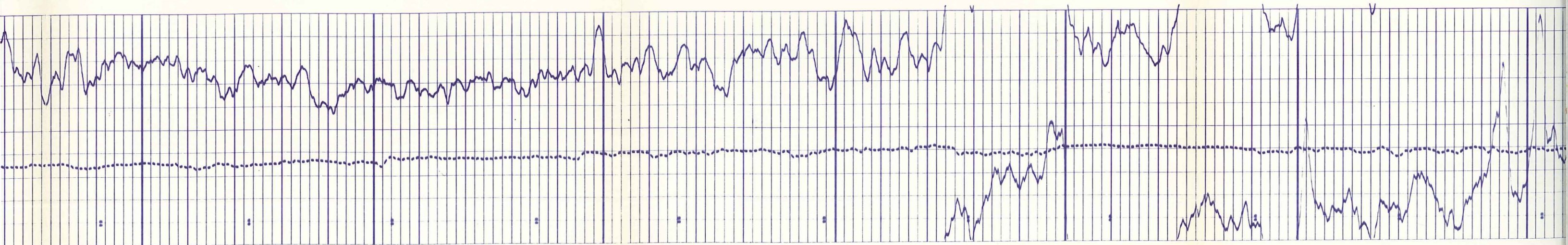


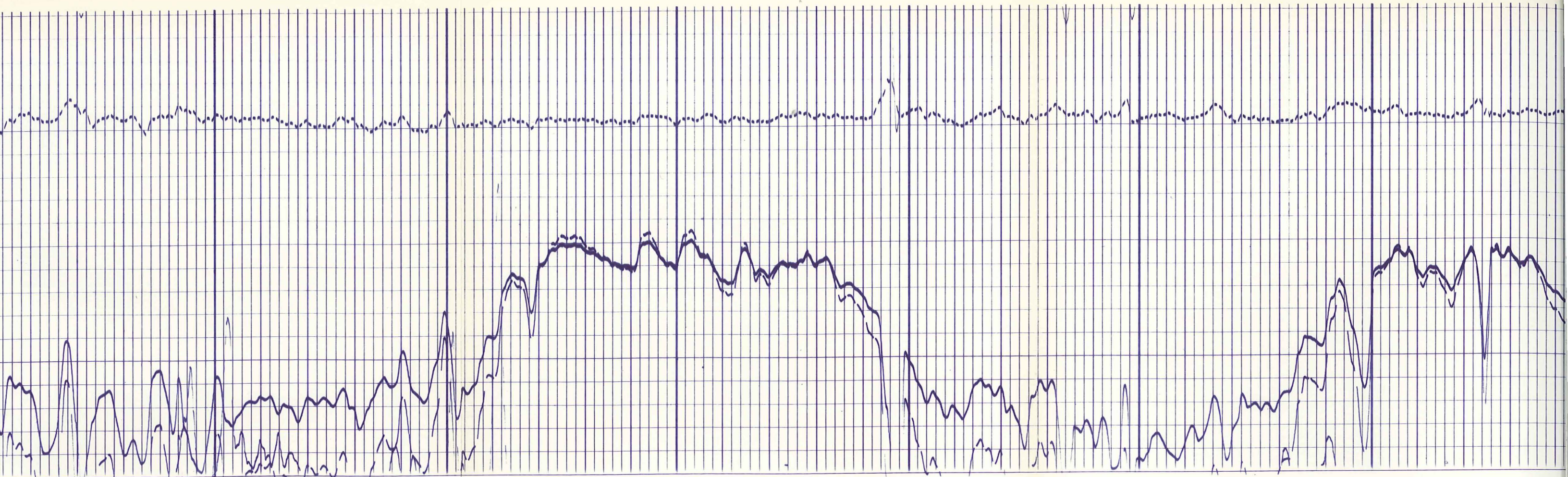
1300

1400

1500

1600

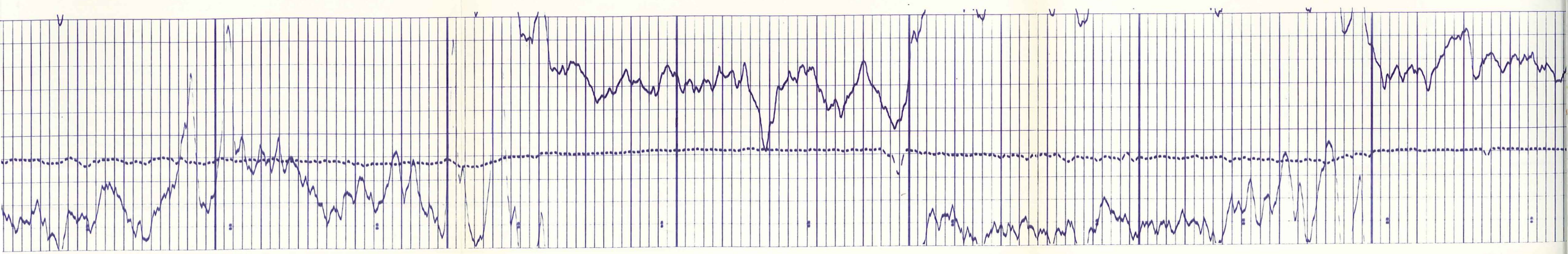


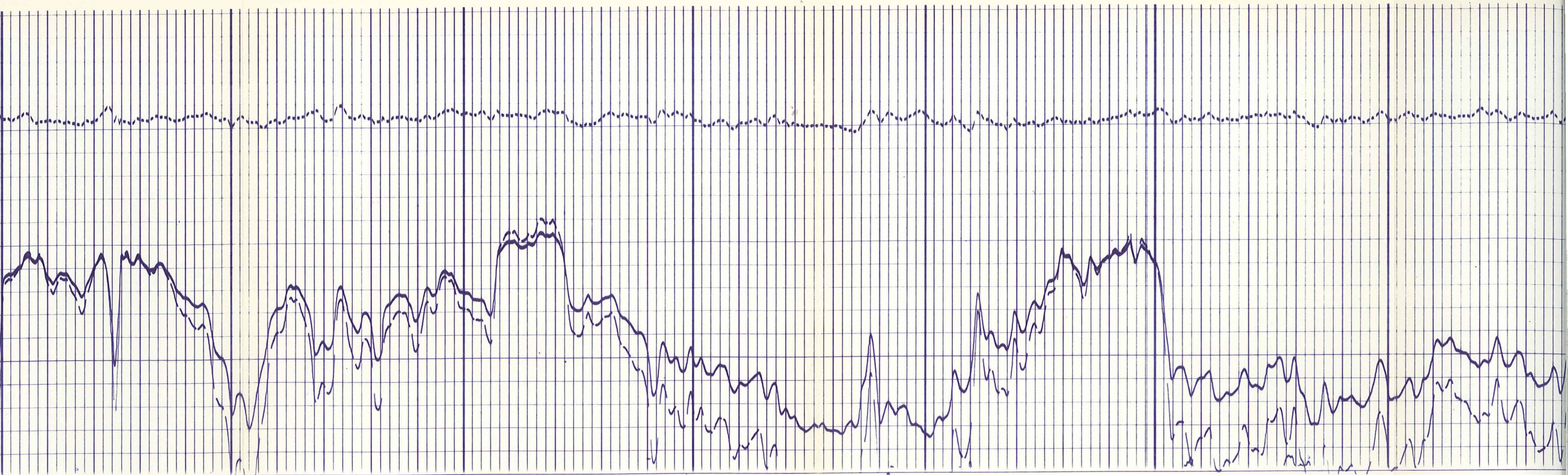


1600

1700

1800

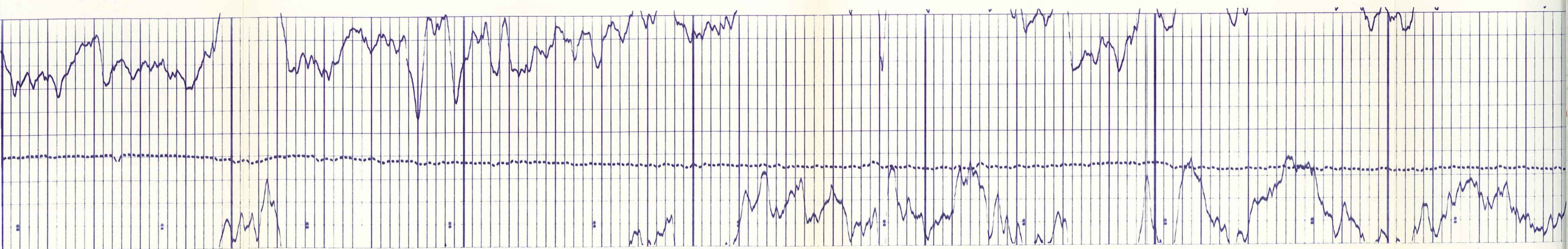


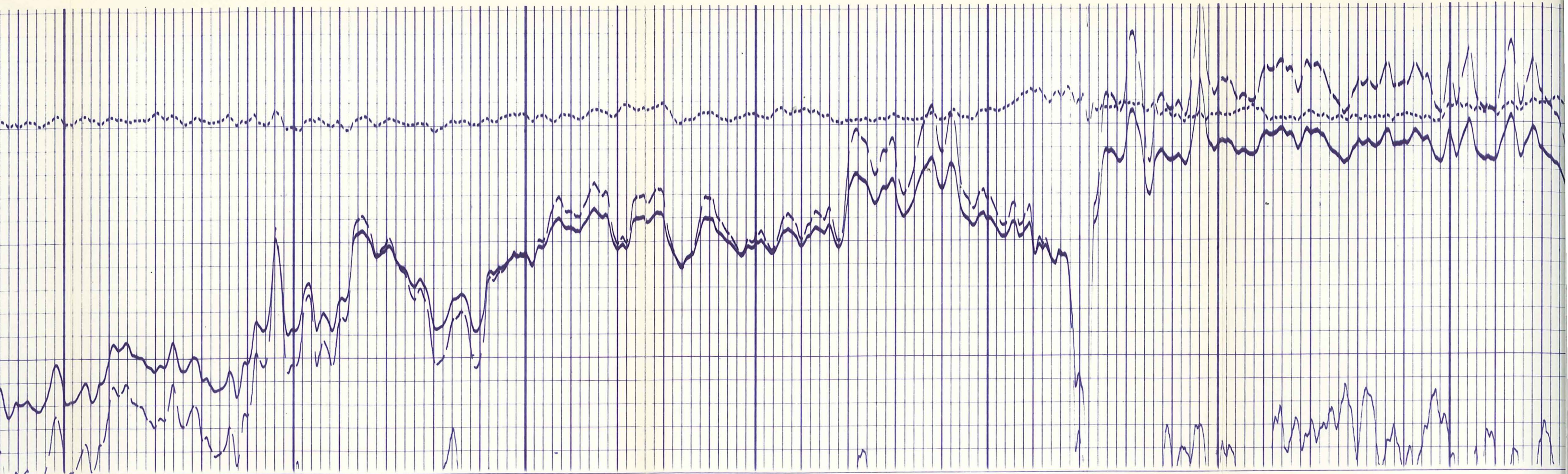


4900

5000

5100

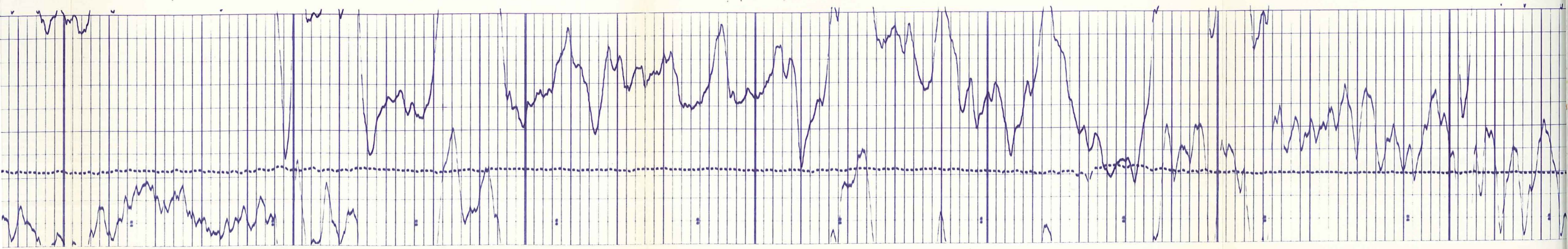


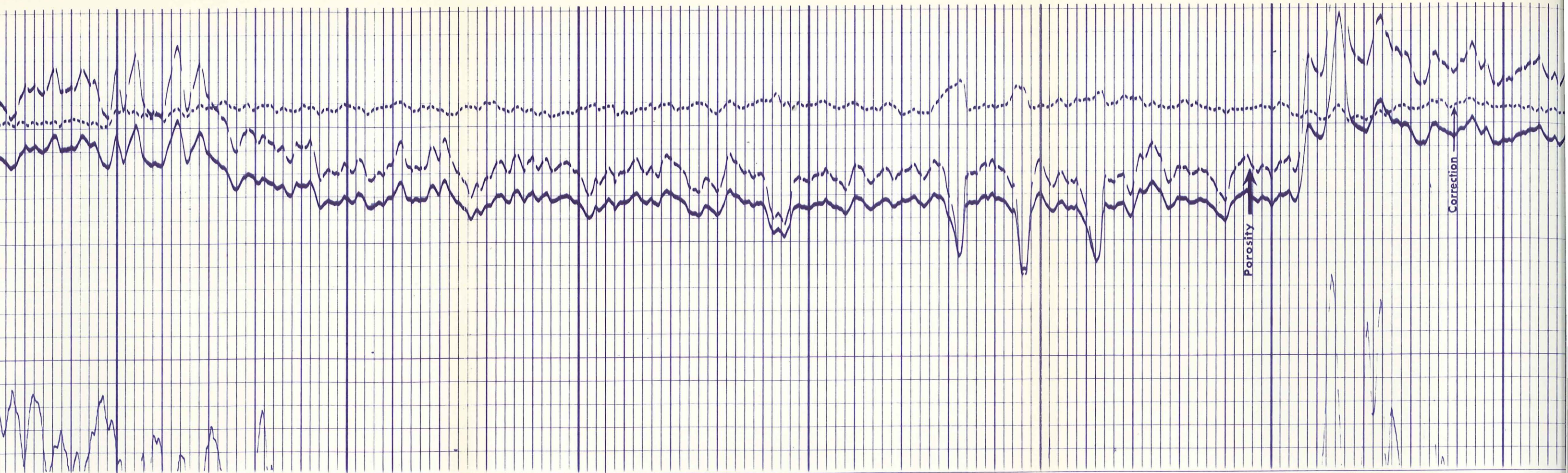


200

300

400

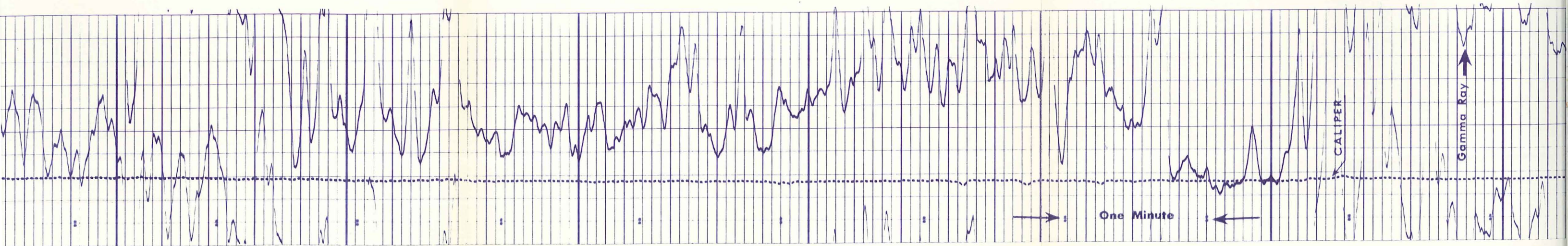


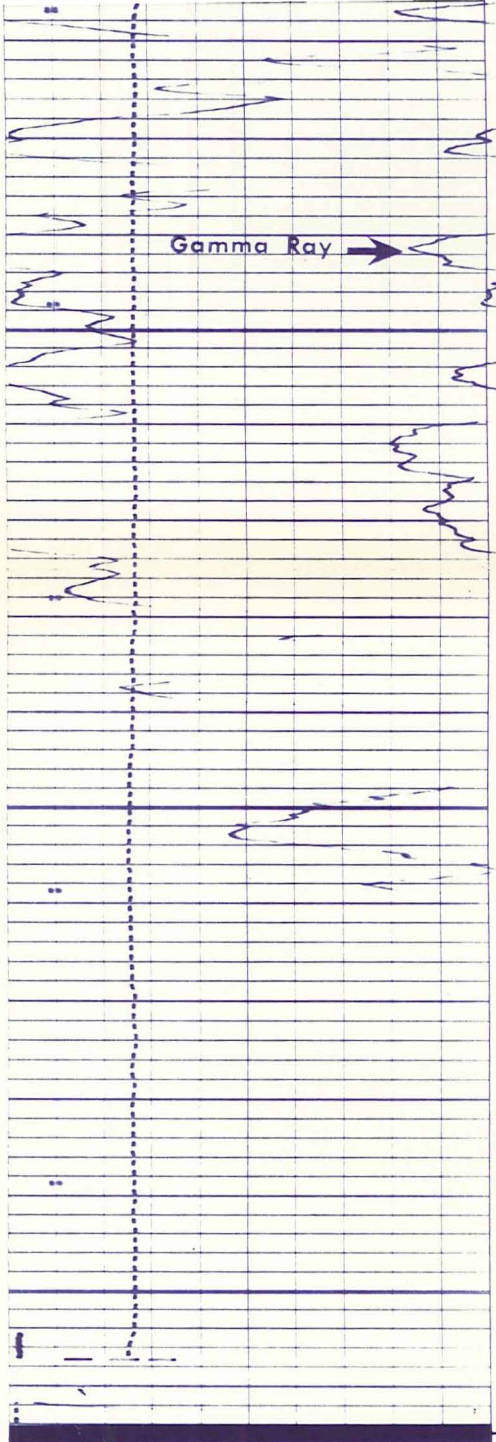


500

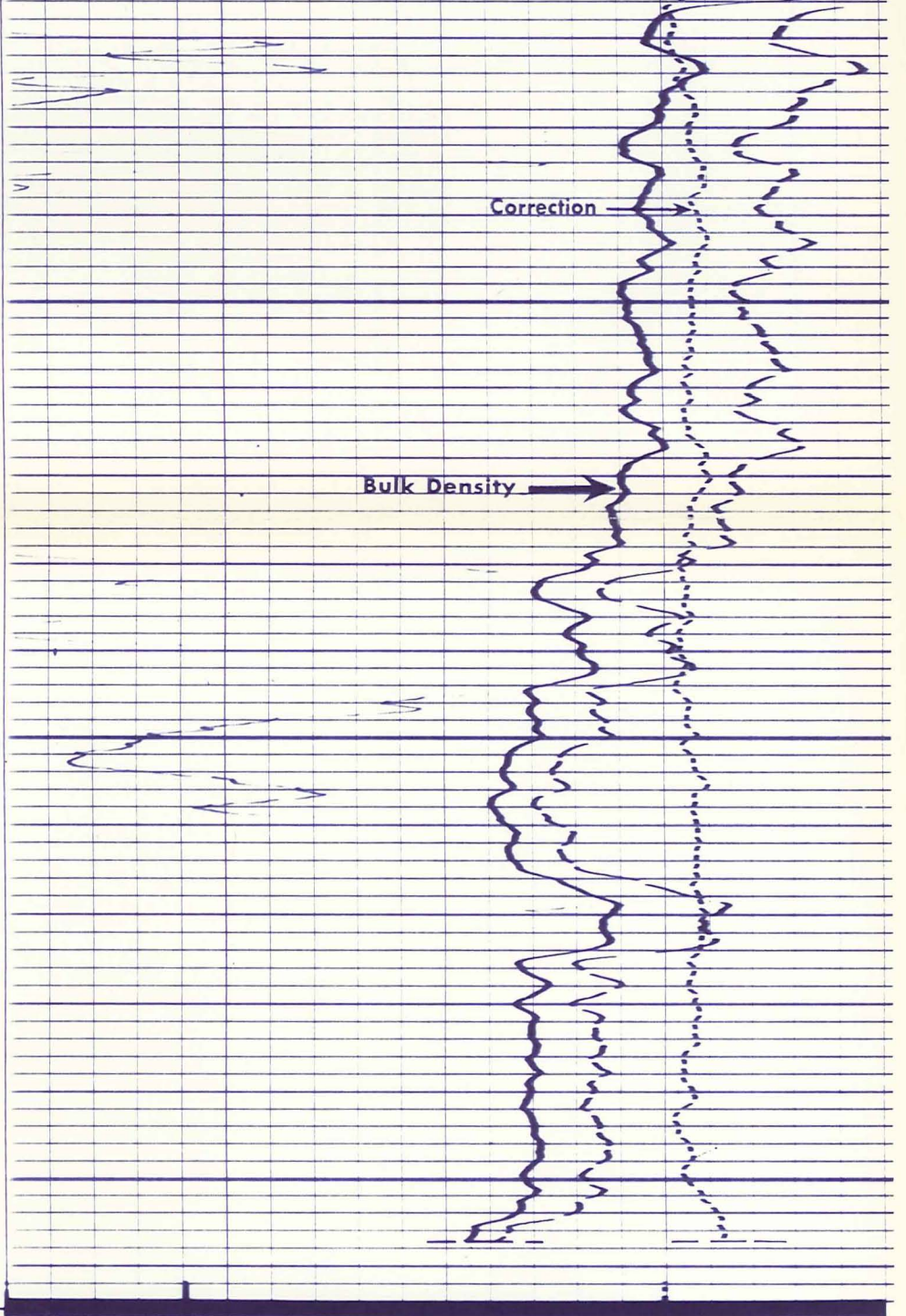
600

700





0085

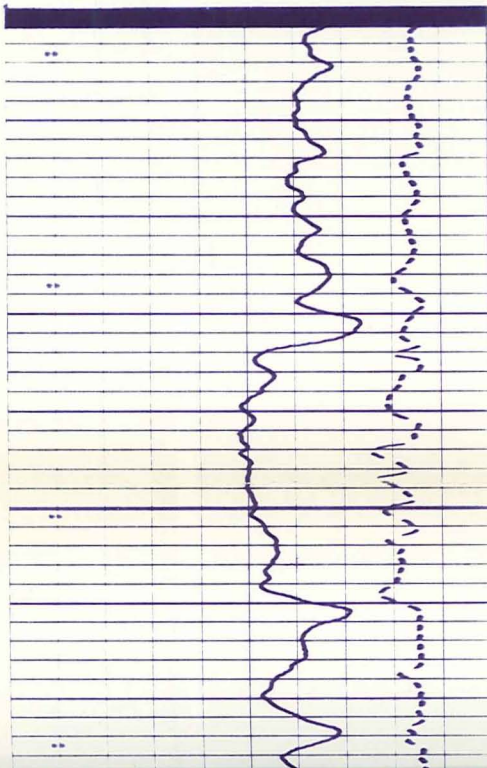


6	16
HOLE SIZE - INCHES	
150	300
API UNITS	
0	150

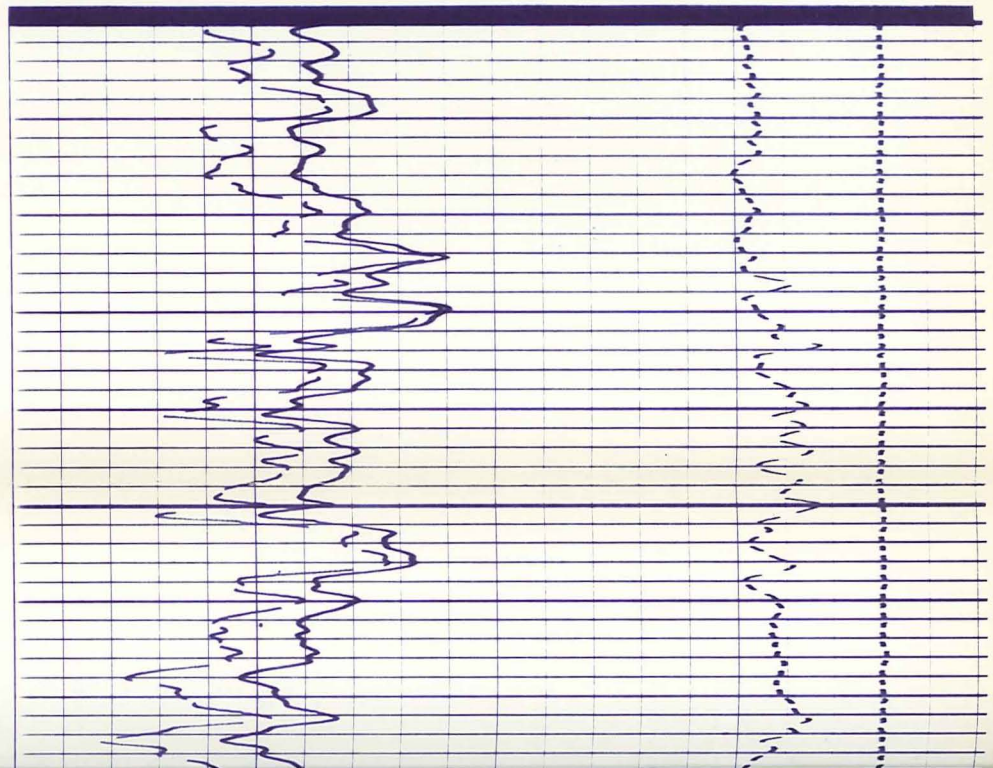
30	20	10	0
SANDSTONE POROSITY—%		FLUID DENSITY—1.00 GM/CC	
GRAIN DENSITY—2.65 GM/CC		← 500' /C.D. Tension Curve	
2.0	2.5	3.0	
-0.5	0	+0.5	
CORRECTION			

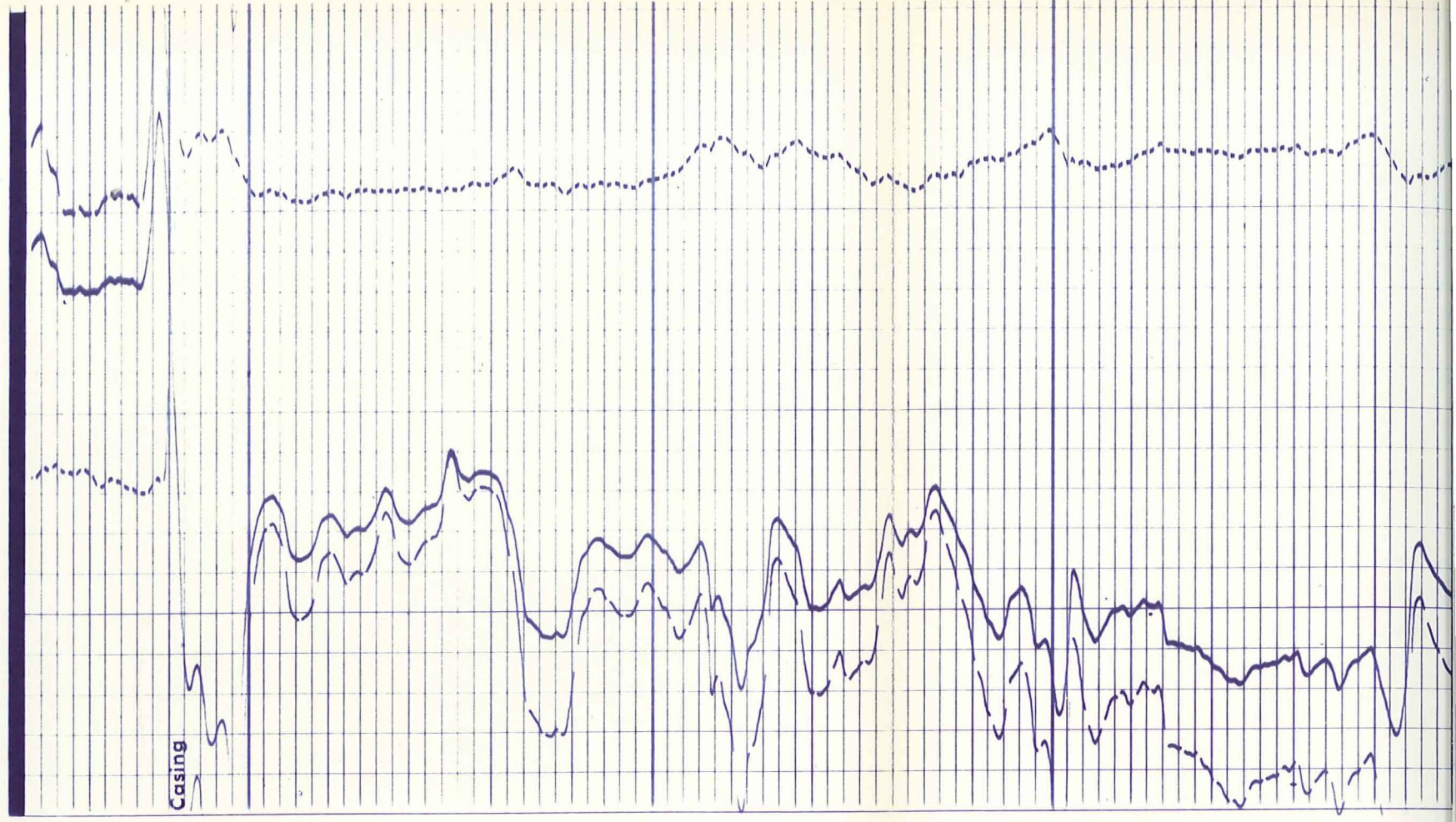
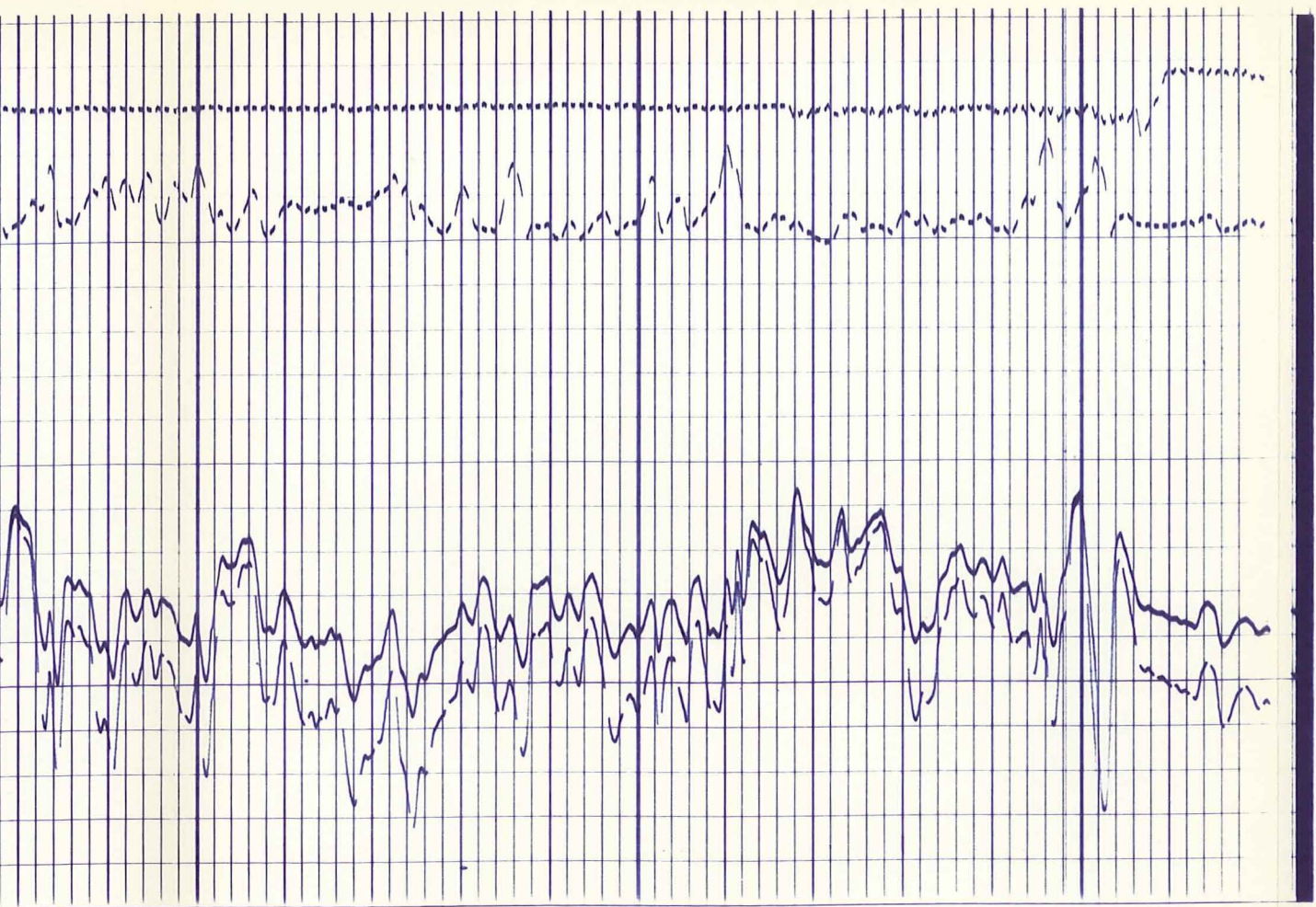
GAMMA RAY & CALIPER	DEPTH	BULK DENSITY GRAMS/CC
Company	AERO JET NUCLEAR INEL	Drillers T.D. 5868
Well	RRGE #3	Log F.R. 5863
Field	RAFT RIVER GEOTHERMAL	Log T.D. 5865
County	CASSIA	Elevations:
State	IDAHO	K.B. 4878 D.F. 4876 G.L. 4860

REPEAT SECTION



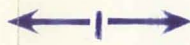
0010





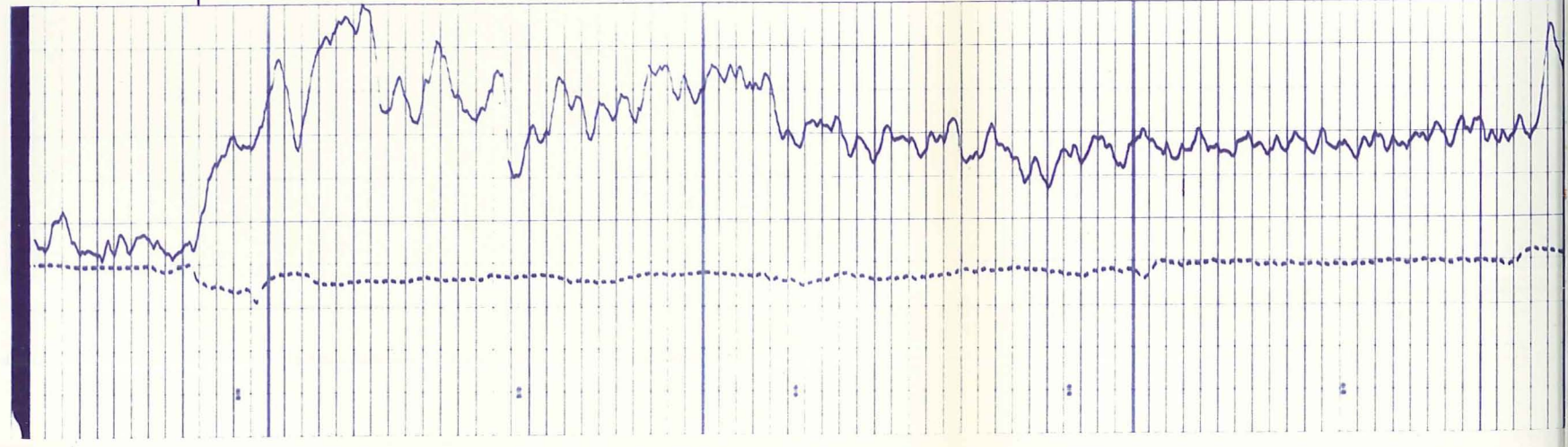
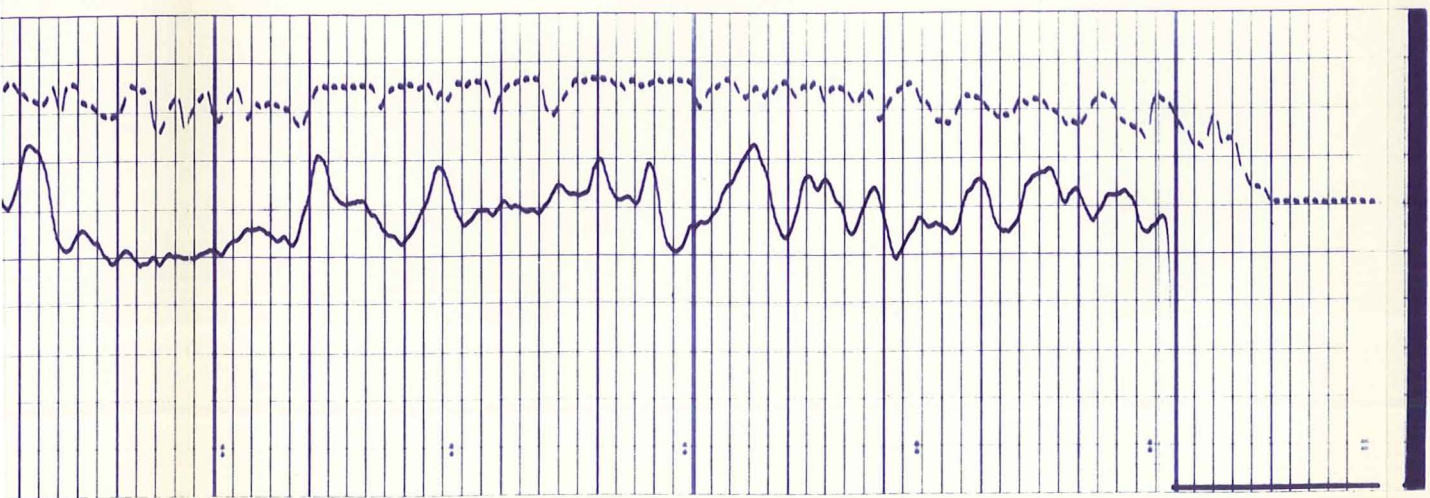
4100

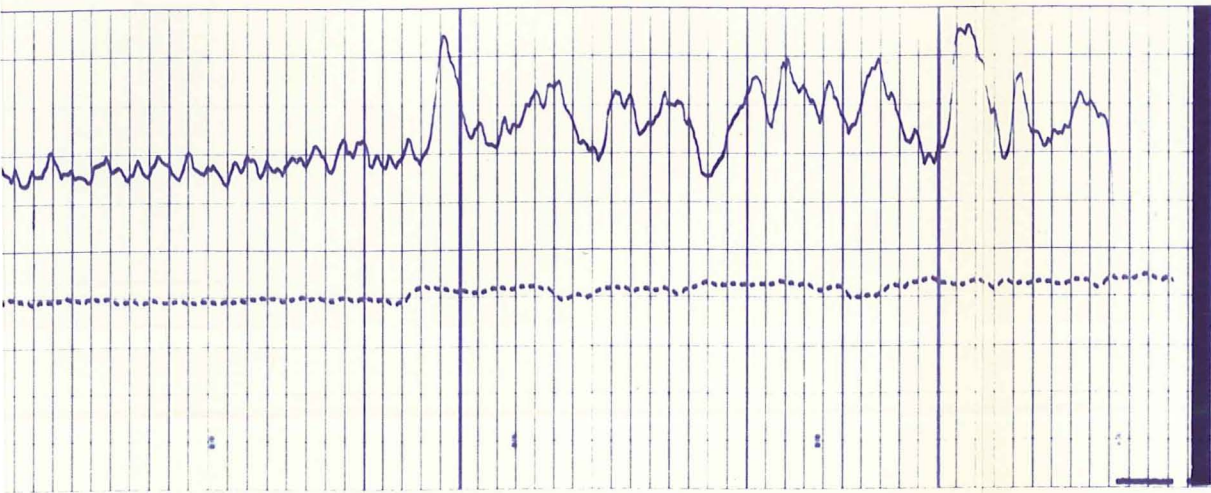
200 Run 2



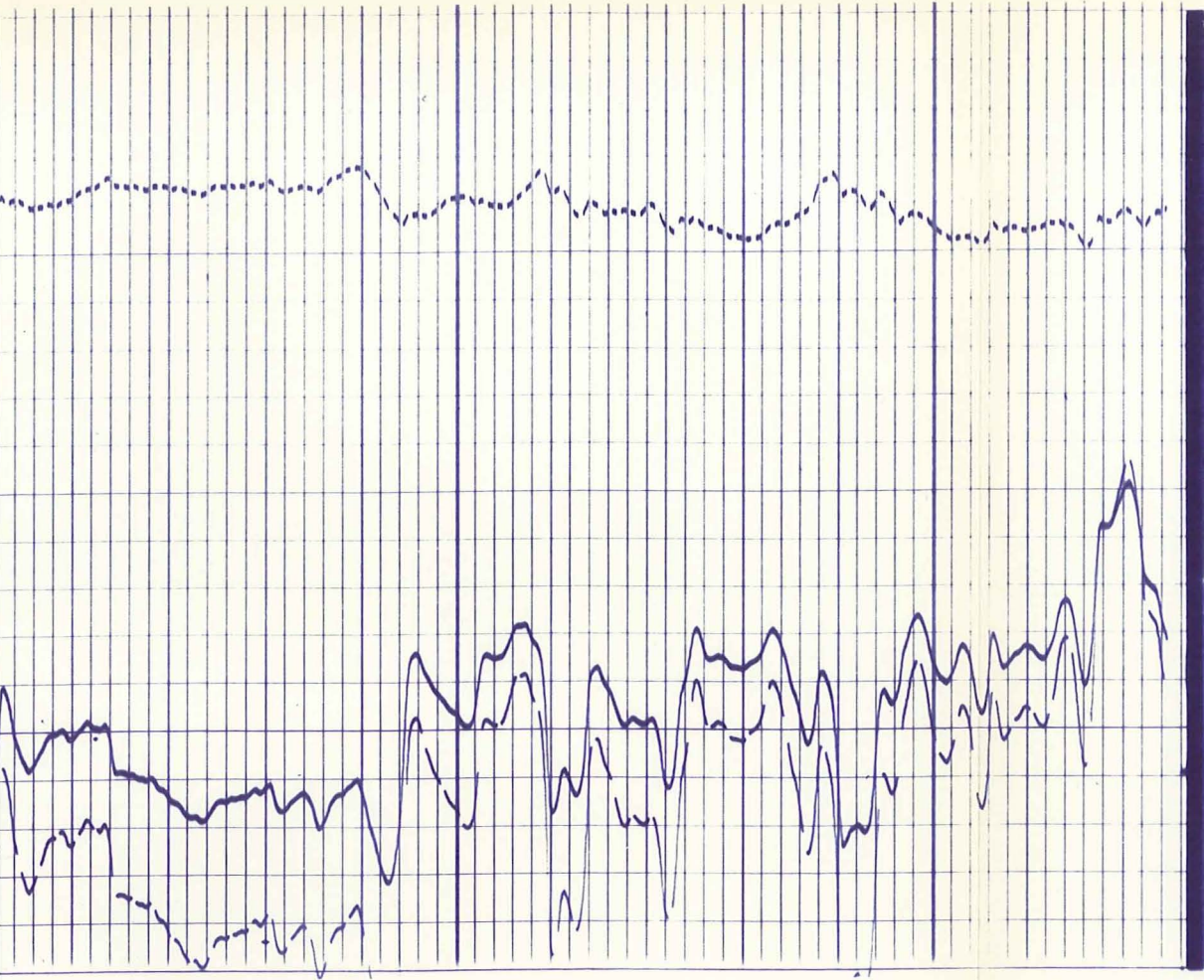
Run 3

400

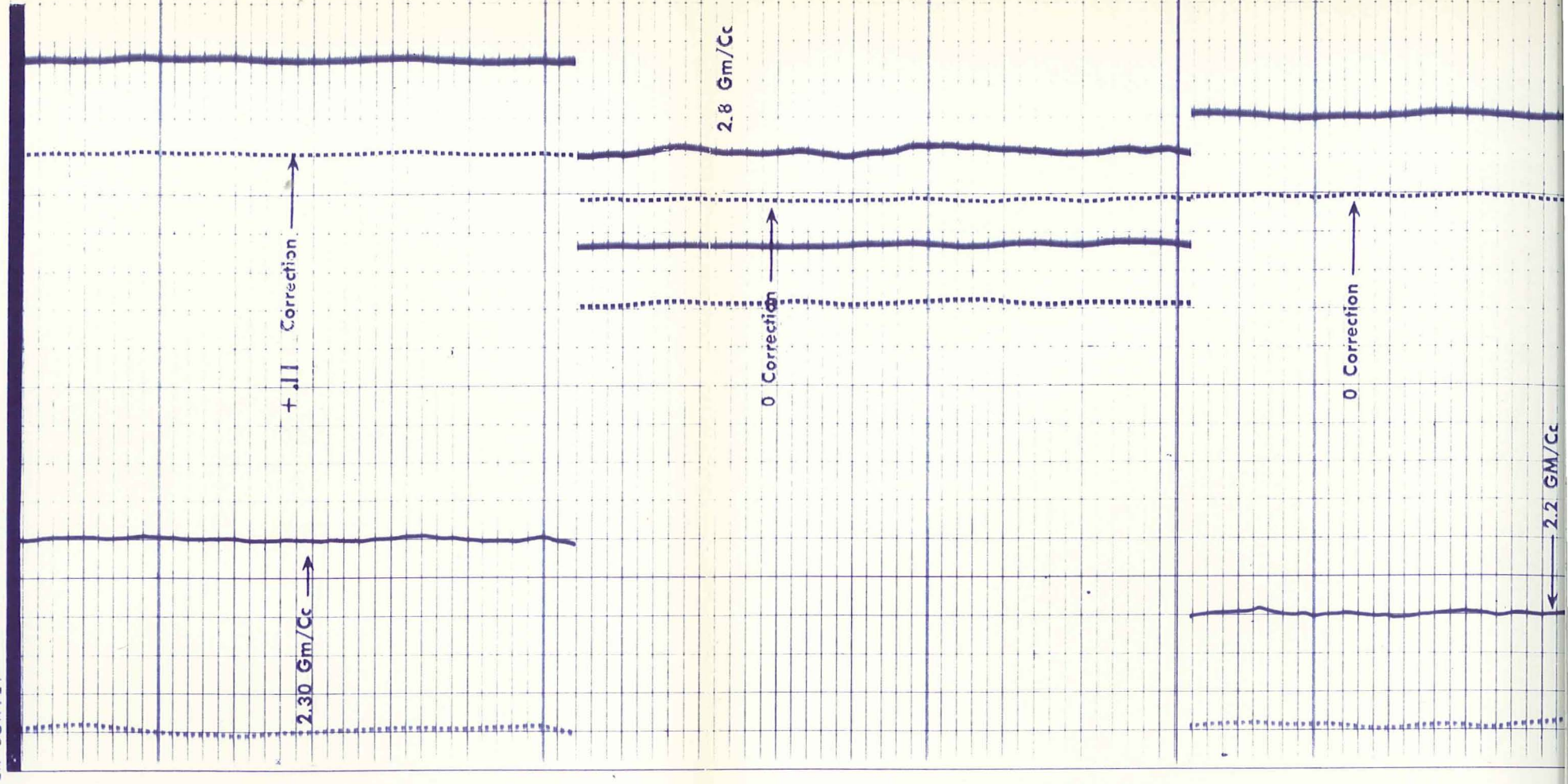
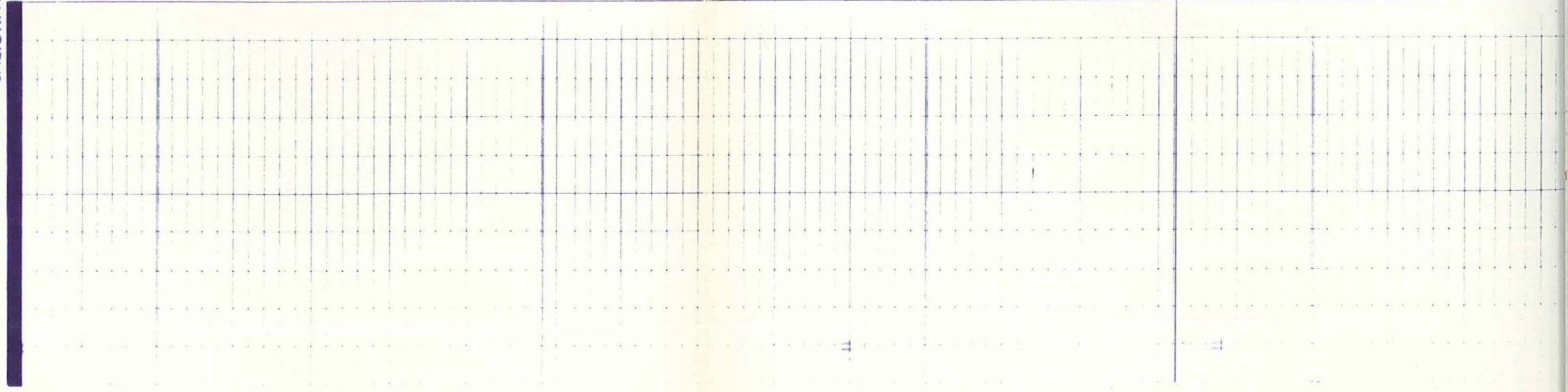


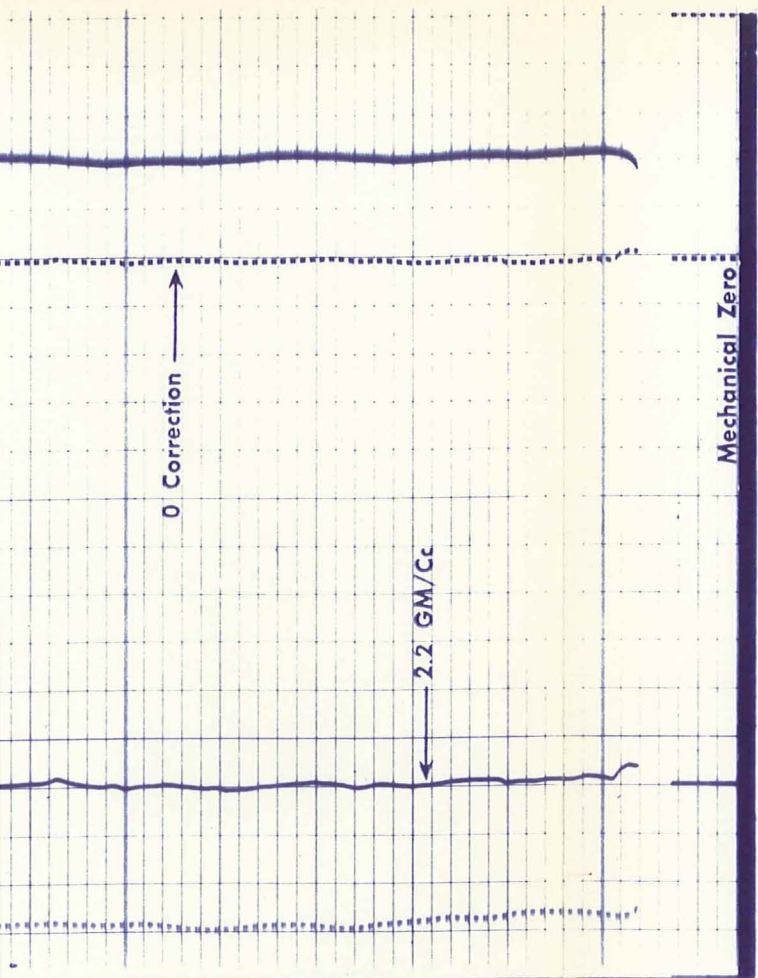


1400

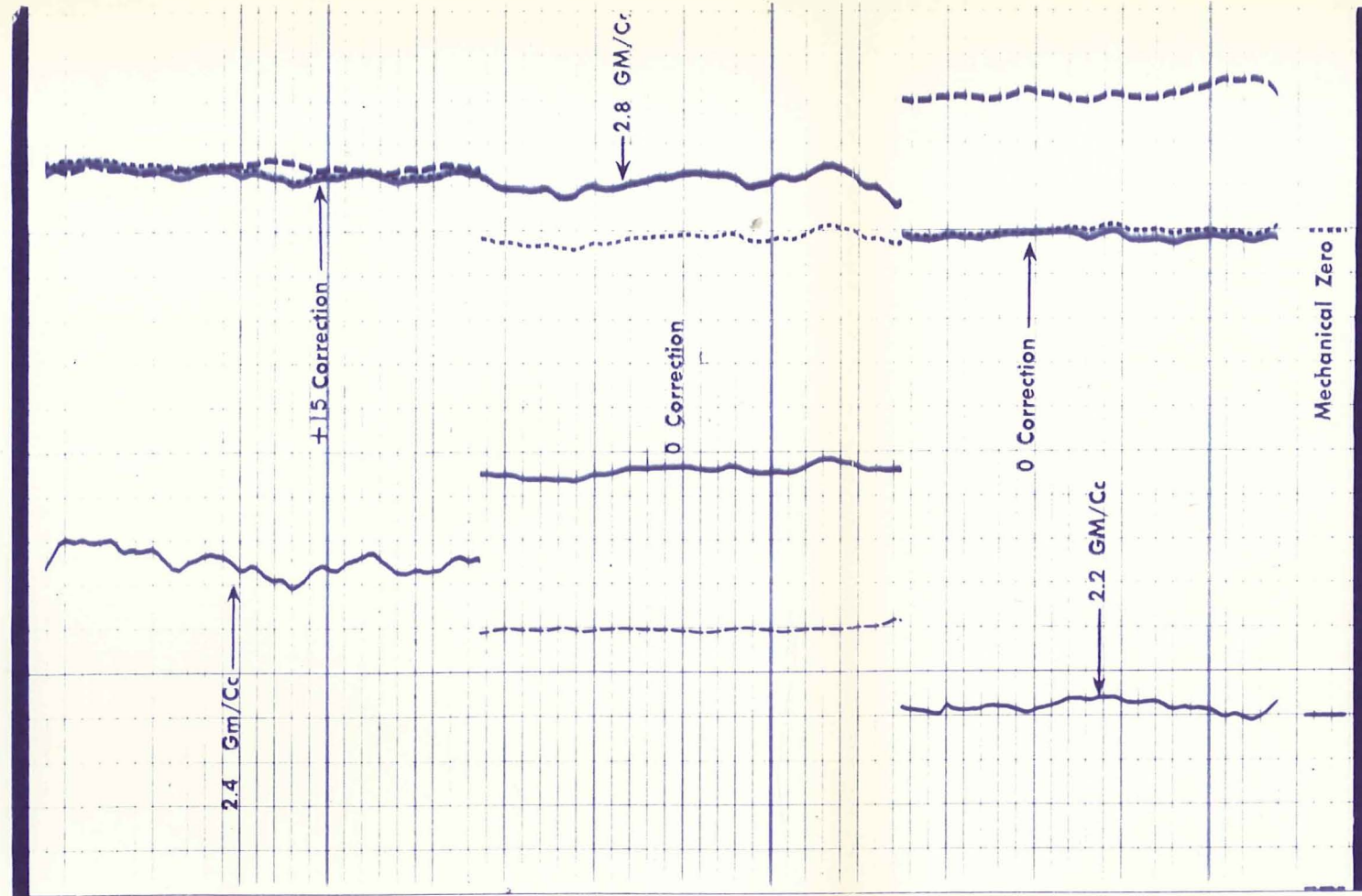


CALIBRATION—AFTER SURVEY

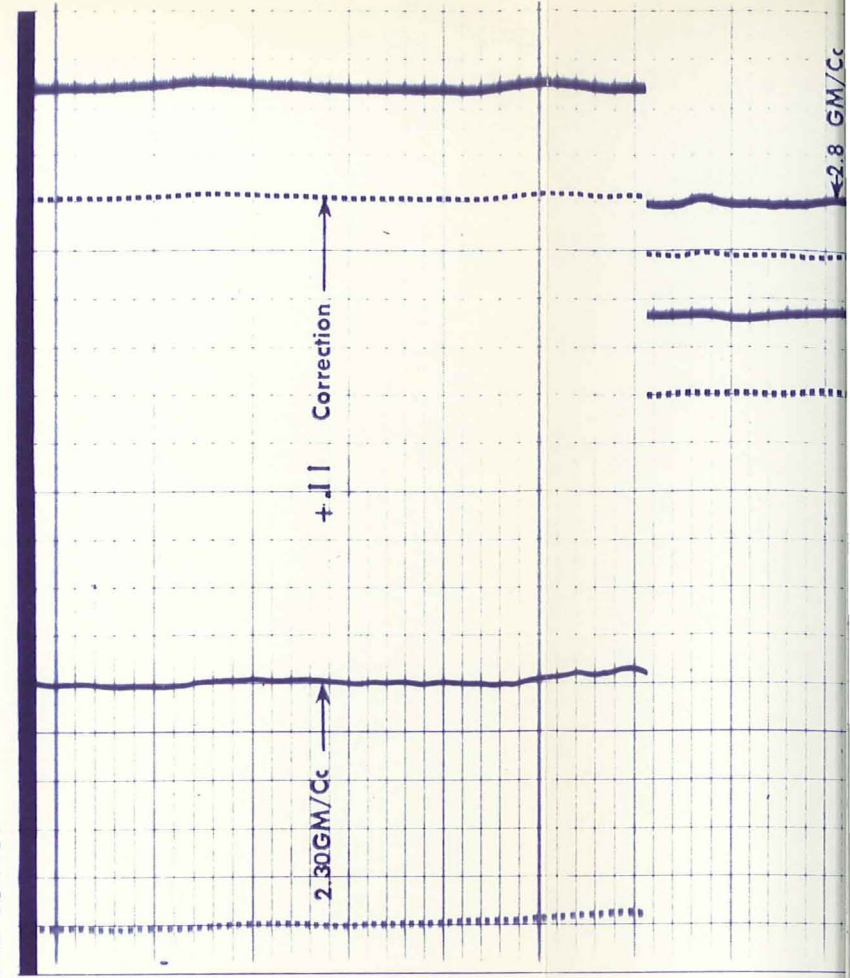


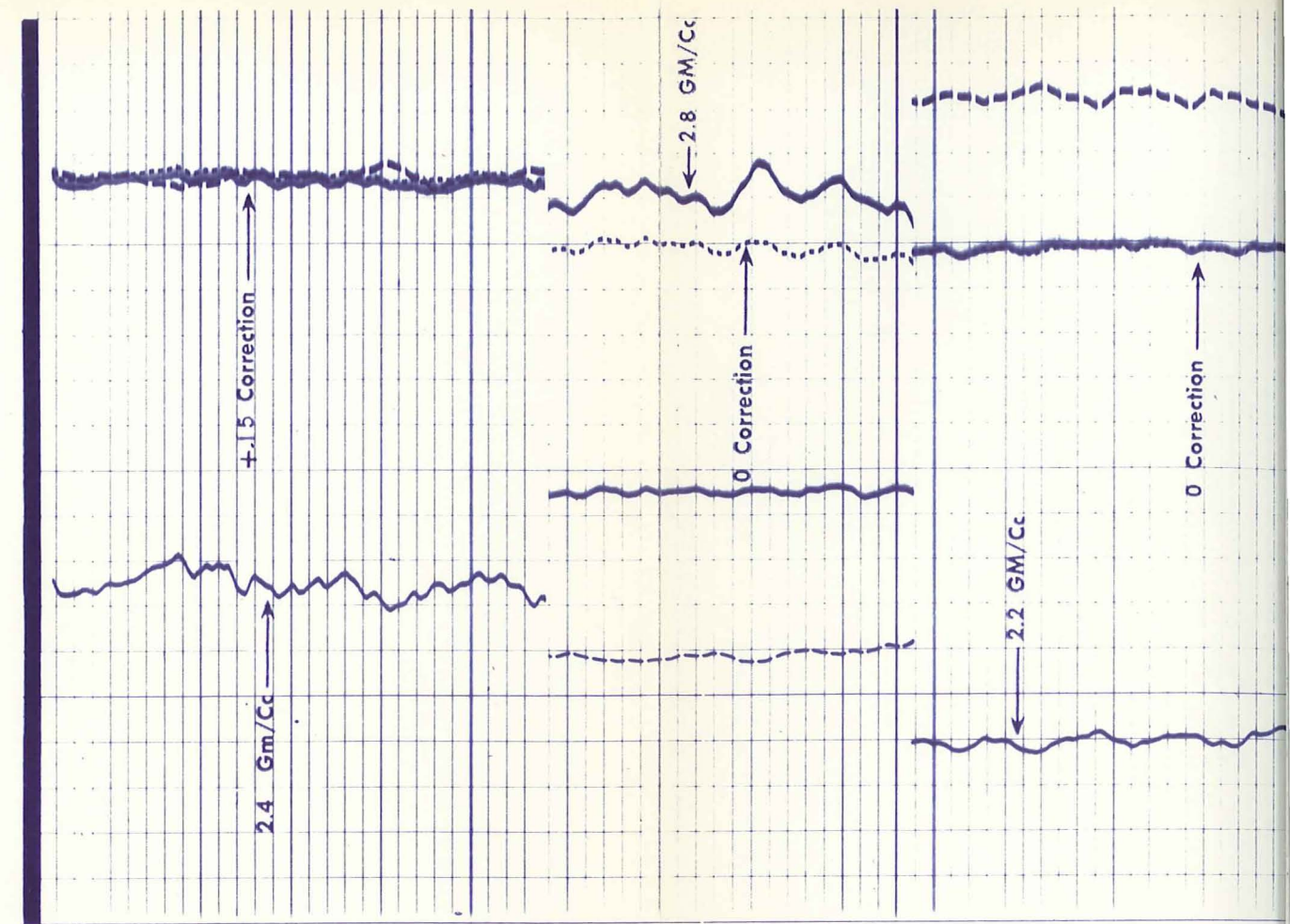
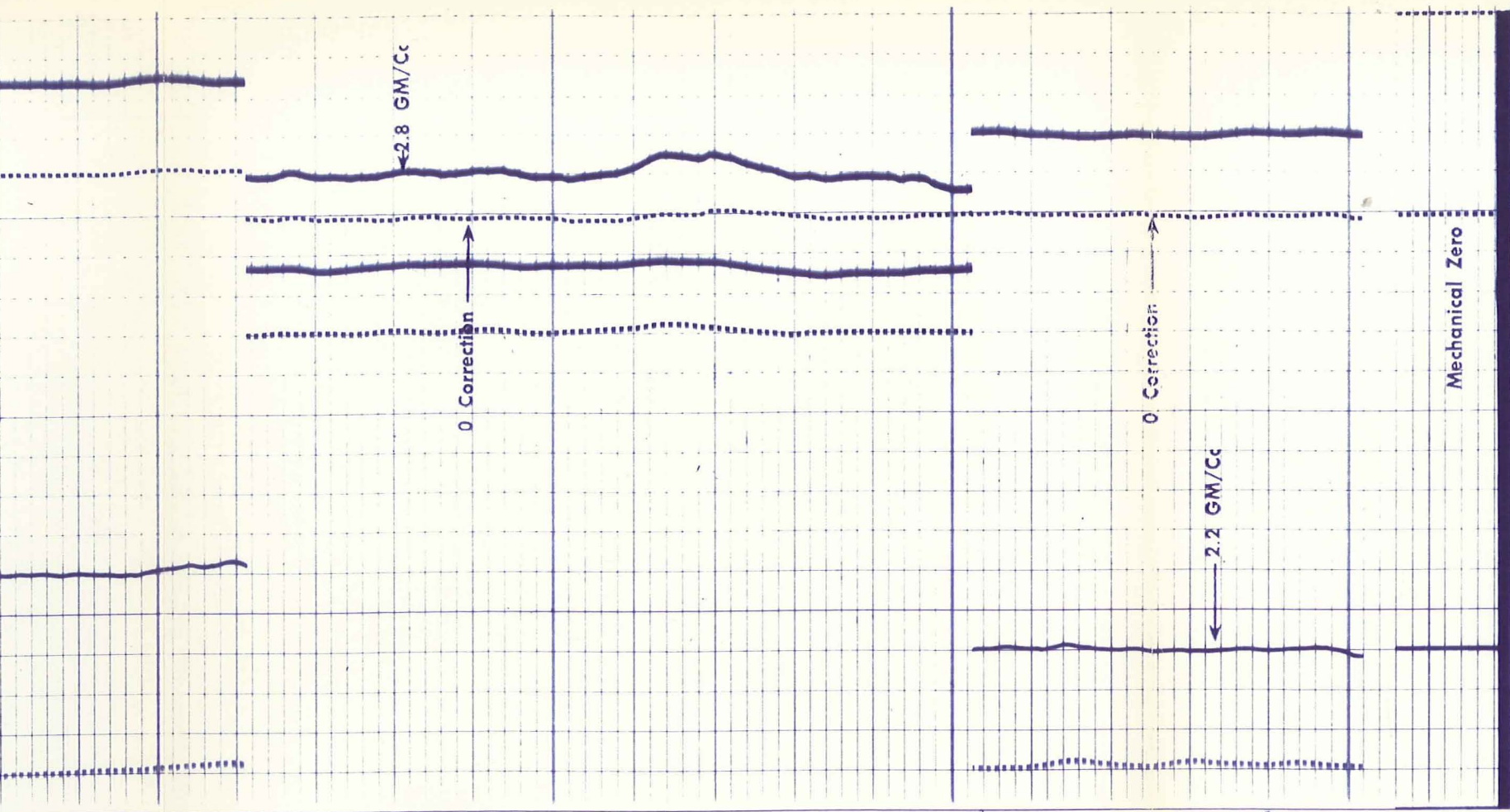


Run 2 ← | → Run 3

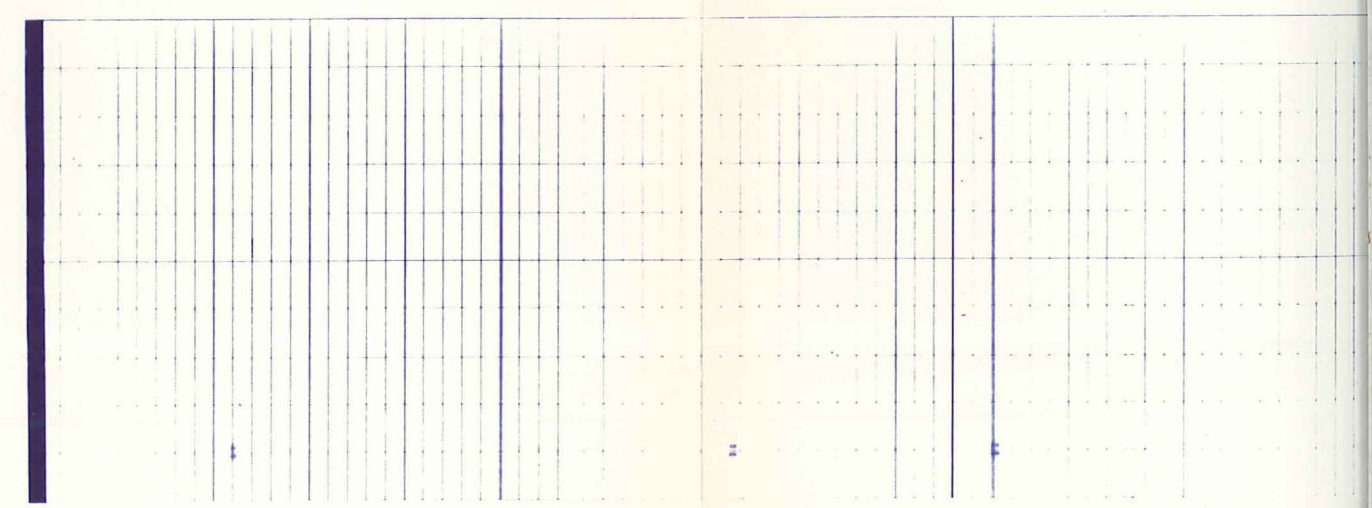
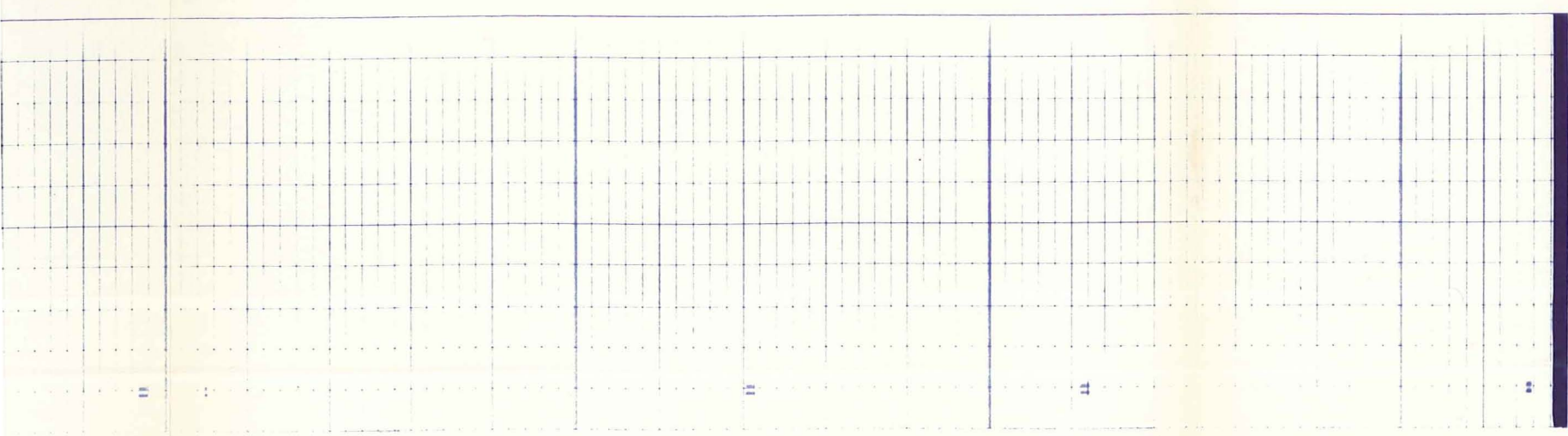


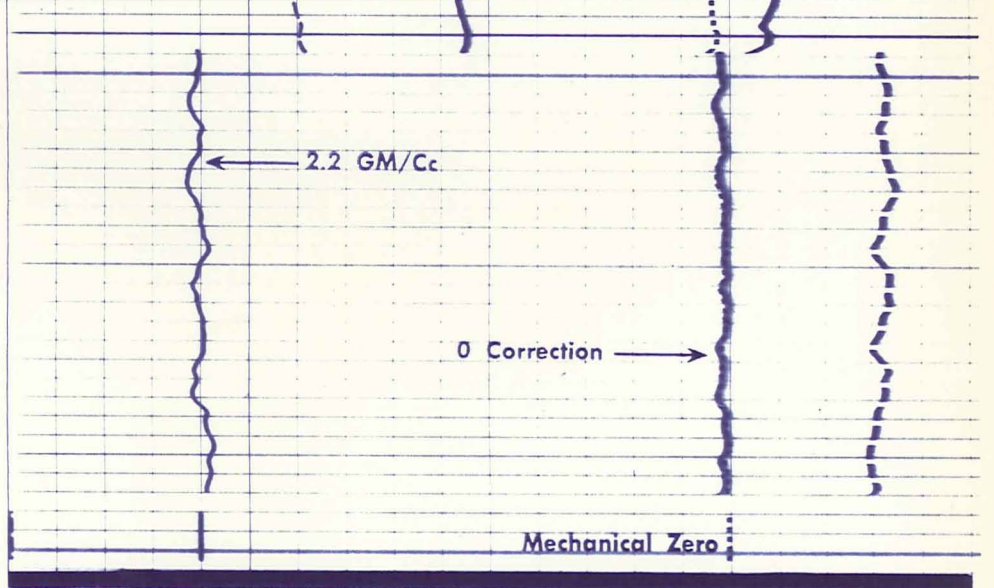
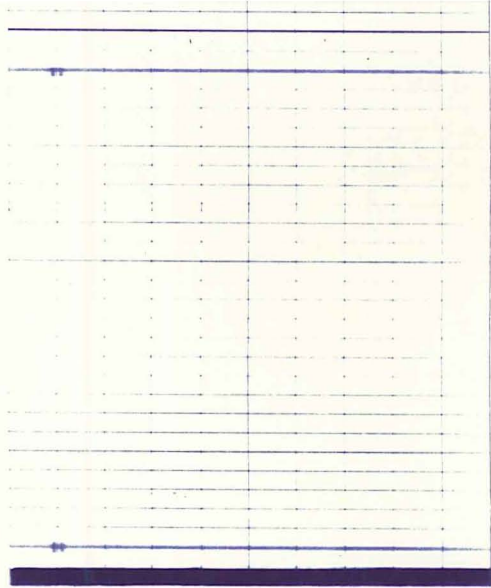
CALIBRATION—BEFORE SURVEY



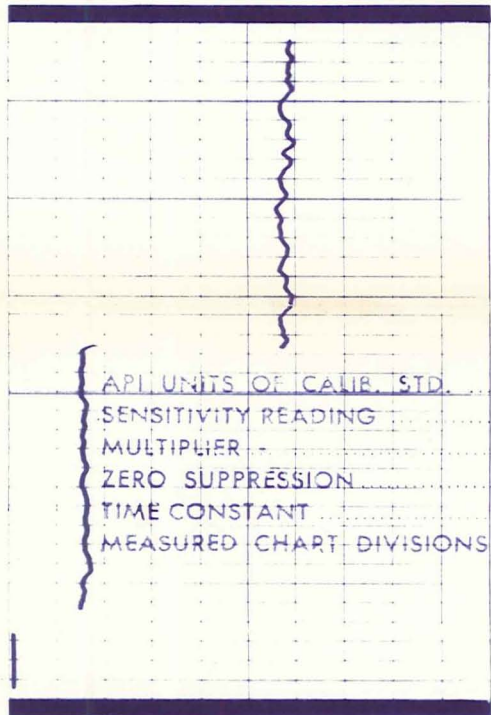


Run 2 ← | → Run 3



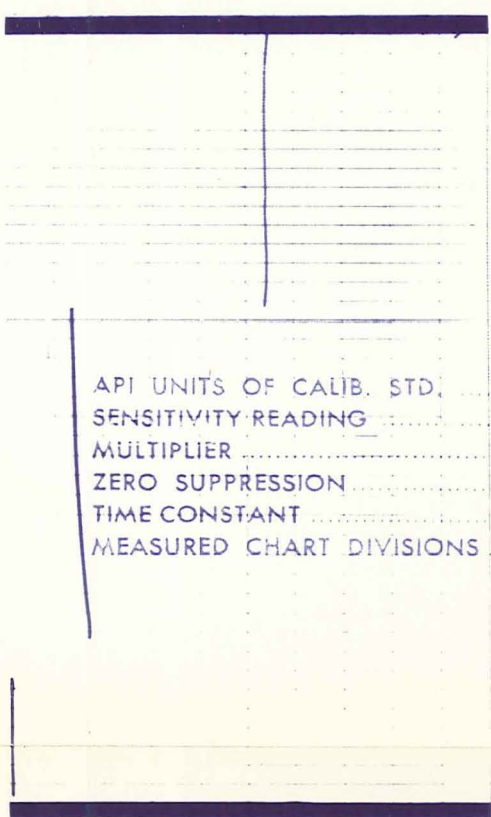
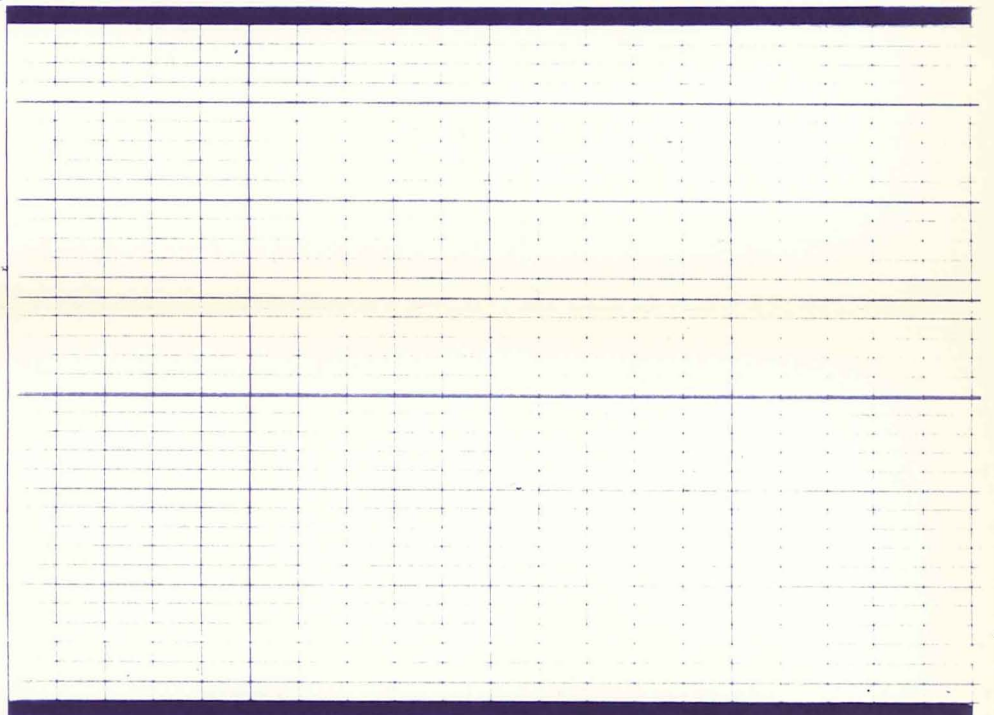


G/R LOG CALIBRATION
AFTER LOG



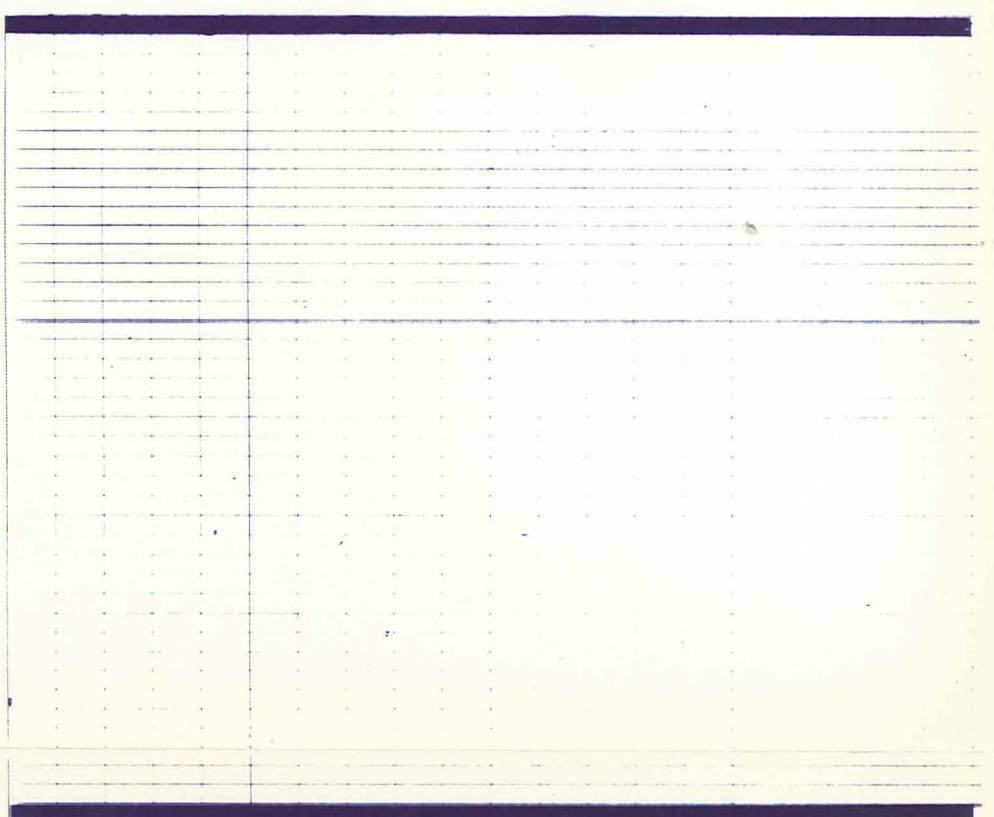
API UNITS OF CALIB. STD.	185
SENSITIVITY READING	150
MULTIPLIER	X1
ZERO SUPPRESSION	ZERO
TIME CONSTANT	3
MEASURED CHART DIVISIONS	4.2

Run 2
↑
↓
Run 3

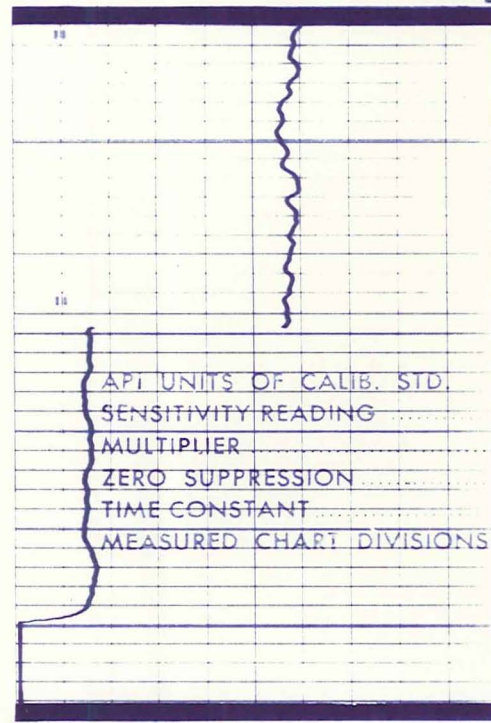


API UNITS OF CALIB. STD.	185
SENSITIVITY READING	150
MULTIPLIER	X1
ZERO SUPPRESSION	ZERO
TIME CONSTANT	3
MEASURED CHART DIVISIONS	4.0

Run 2
↑
↓
Ru

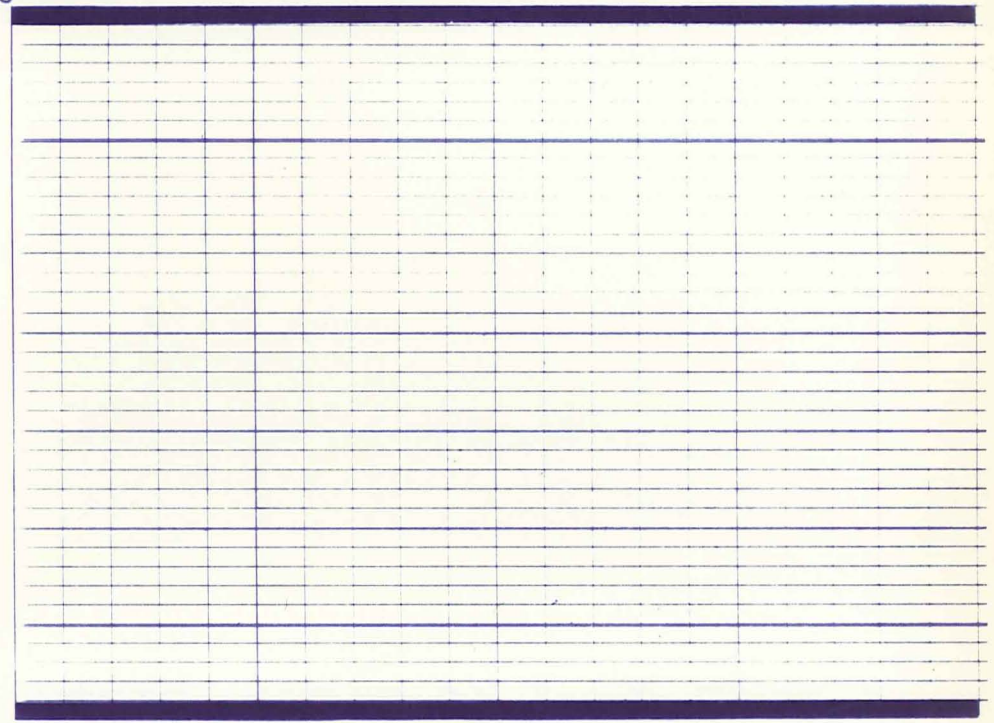


G/R LOG CALIBRATION
BEFORE LOG



API UNITS OF CALIB. STD.	185
SENSITIVITY READING	150
MULTIPLIER	X1
ZERO SUPPRESSION	ZERO
TIME CONSTANT	3
MEASURED CHART DIVISIONS	4.2

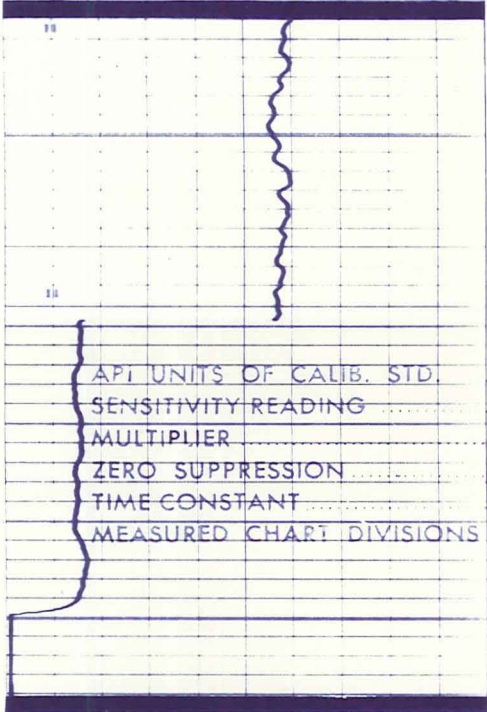
Run 2
↑
↓
Ru



Run 3

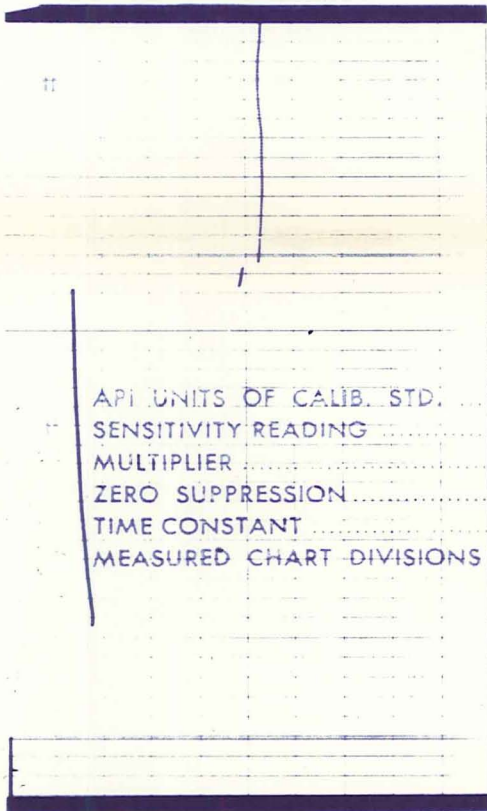
API UNITS OF CALIB. STD.	185
SENSITIVITY READING	150
MULTIPLIER	X1
ZERO SUPPRESSION	ZERO
TIME CONSTANT	3
MEASURED CHART DIVISIONS	4.0

G/R LOG CALIBRATION BEFORE LOG



API UNITS OF CALIB. STD.	185
SENSITIVITY READING	150
MULTIPLIER	X1
ZERO SUPPRESSION	ZERO
TIME CONSTANT	3
MEASURED CHART DIVISIONS	4.2

Run 2
↕
Run 3



API UNITS OF CALIB. STD.	185
SENSITIVITY READING	150
MULTIPLIER	X1
ZERO SUPPRESSION	ZERO
TIME CONSTANT	3
MEASURED CHART DIVISIONS	4.0