



Dual Induction Focused Log

WITH LINEAR CORRELATION LOG

FILE NO. R-357

COMPANY AERO JET NUCLEAR INEL

GL02600

WELL RRGE #3

FIELD RAFT RIVER GEOTHERMAL

COUNTY CASSIA STATE IDAHO

LOCATION: SE/NW
 SEC 25 TWP 15S RGE 26E

Other Services
 TEMP SURVEY
 4-ARM
 CALIPER

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

Elevations:
 KB 4878
 DF 4876
 GL 4860

Date	3/30/76	4/17/76	5/2/76
Run No.	ONE	TWO	THREE
Depth-Driller	1404	4259	5868
Depth-Logger	1412	4211	5865
Bottom Logged Interval	1410	4209	5863
Top Logged Interval	140		4247
Casing-Driller	20" @ 120	13 3/8 @ 1385	9 5/8 @ 4255
Casing-Logger	140		4247
Bit Size	17.5	12 1/4	8 1/2
Type Fluid in Hole	GEL/CMC/CAUSTIC	WATER	WATER
Density and Viscosity	9.1 @ 53		
pH and Fluid Loss	10.5 @ 11.0 cc		
Source of Sample	FLOWLINE	FLOWLINE	
Rm @ Meas. Temp.	4.30 @ 56 °F	3.30 @ 71 °F	
Rmf @ Meas. Temp.	3.35 @ 56 °F		
Rmc @ Meas. Temp.	5.20 @ 56 °F		
Source of Rmf and Rmc	MEASURED	M	M
Rm @ BHT	1.52 @ 158 °F		
Time Since Circ.	6 HOURS	12 HOURS	24 HOURS
Max. Rec. Temp. Deg. F.	158 °F	134 °F	288 °F
Equip. No. and Location	6103 RSVLT	6089 RSVLT	6089 RSVLT
Recorded By	KUKAL	MCCALL	KUKAL
Witnessed By	MS. PRESTWICH		

THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD PRACTICE RP-31

REMARKS

Equipment Used

Series No.	1502	1502
Run No.	TWO	THREE
S.O.	40633	41262
Tool No.	28974	28974
Elec. No.	28974	28974
Panel No.	24084	24328
C.S.	26060	160

Scale Changes

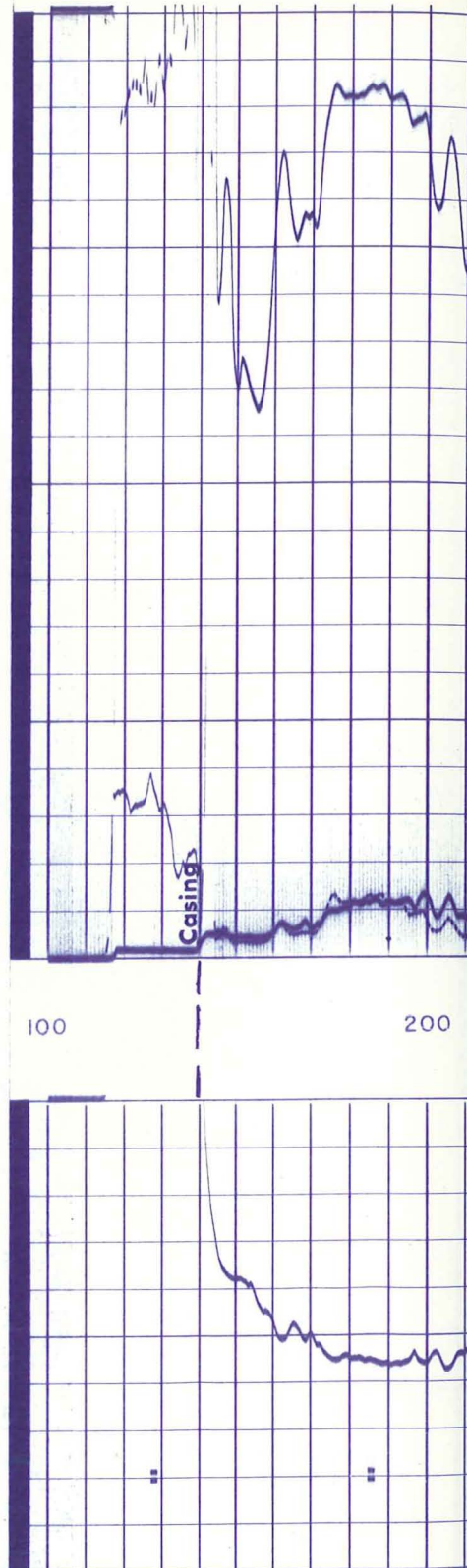
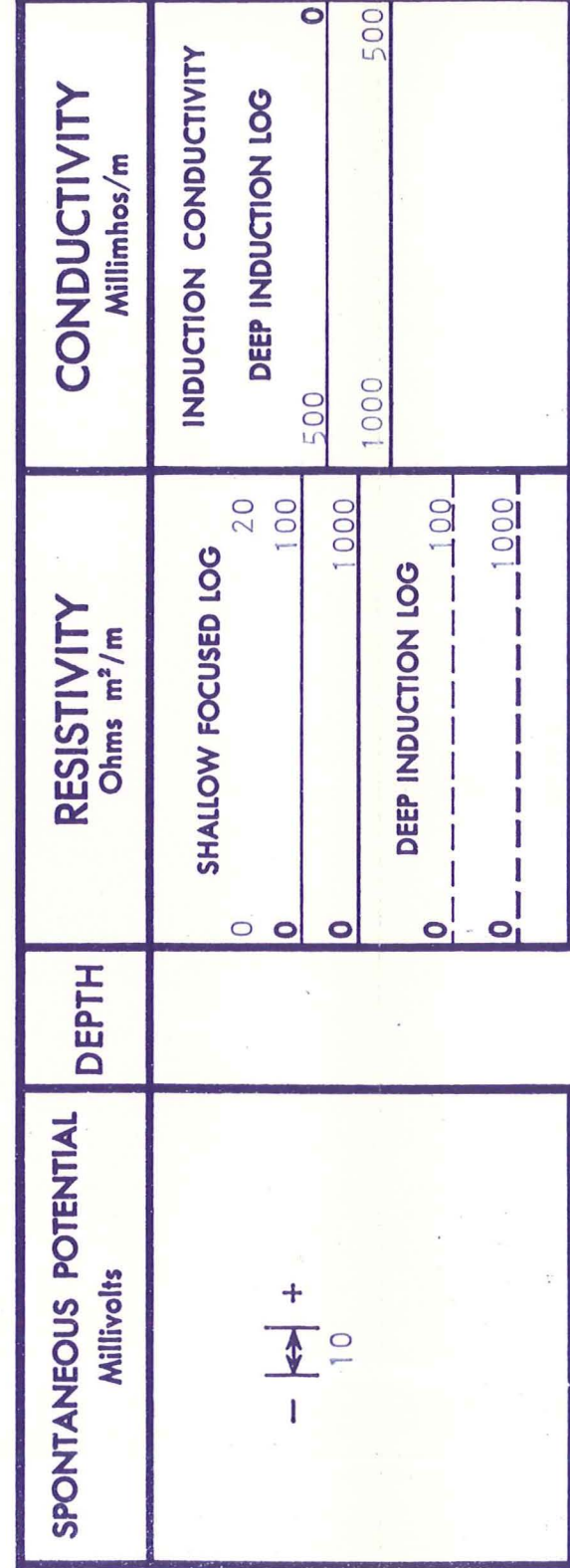
Depth	4247	10 MV	15 MV
Type Log	SP		

Changes in Mud Type or Additional Samples

Date			
Depth-Driller			
Type Fluid in Hole			
Dens.			
Visc.			
pH			
Fluid Loss			
Source of Sample			
Rm @ Meas. Temp.			
Rmf @ Meas. Temp.			
Rmc @ Meas. Temp.			
Source Rmf Rmc			
Rm @ BHT			
Rmf @ BHT			
Rmc @ BHT			

Equipment Data

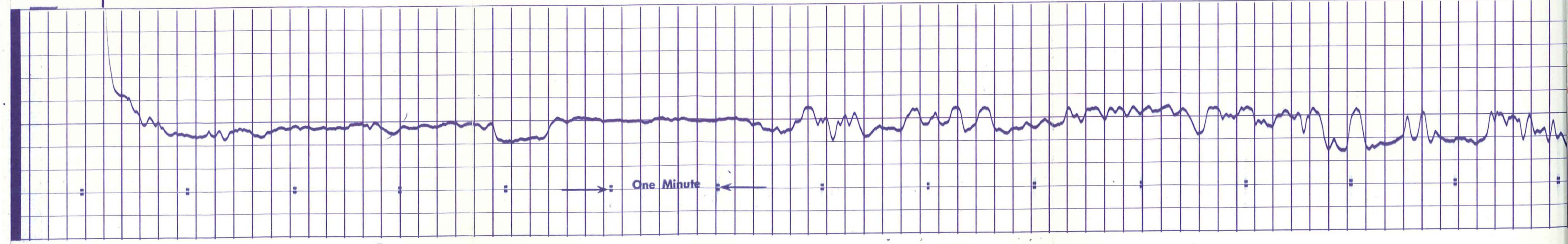
Run No.	ONE	TWO	THREE
Tool Type	1502	1502-DIFL	1502
Pad Type	1.5 S.O.	1.5 S.O.	1.5 S.O.
Other			



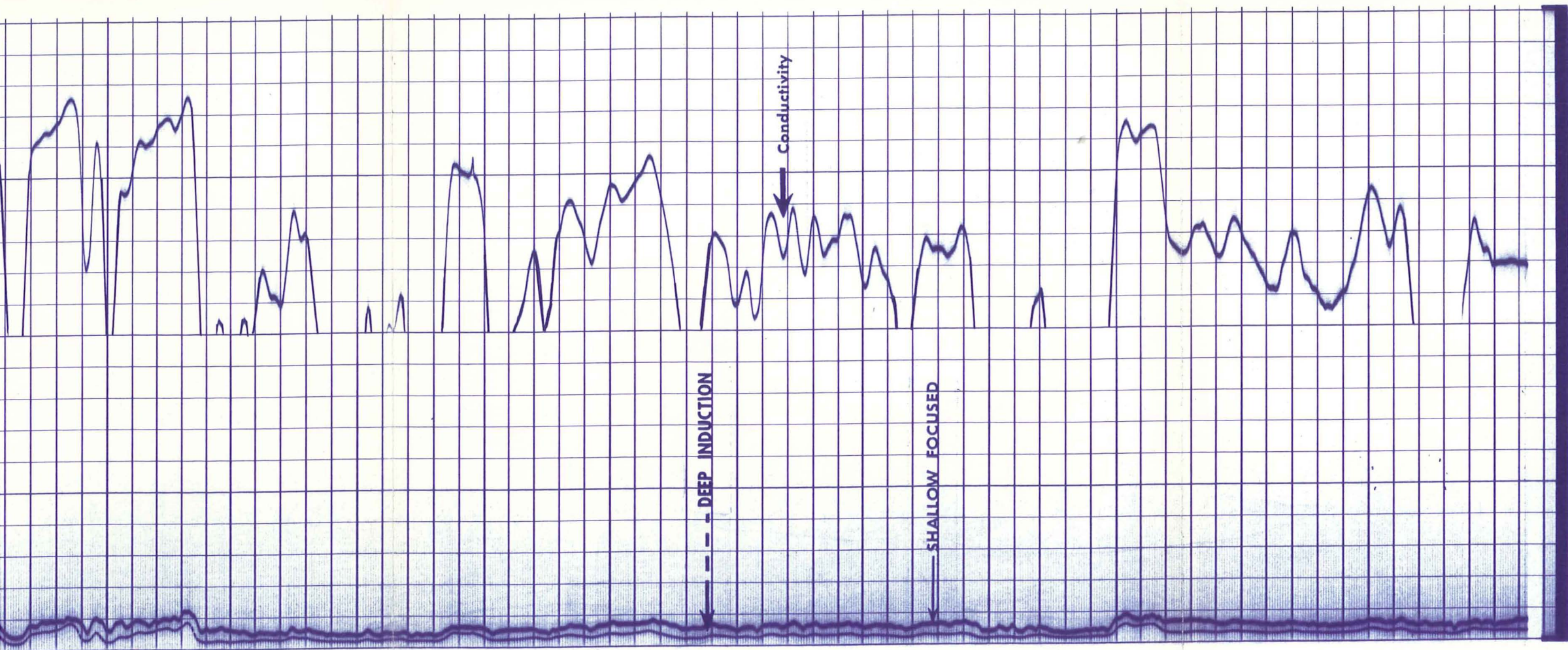


Casing

100 200 300 400 500 600 700 800 900



One Minute



900

1000

1100

1200

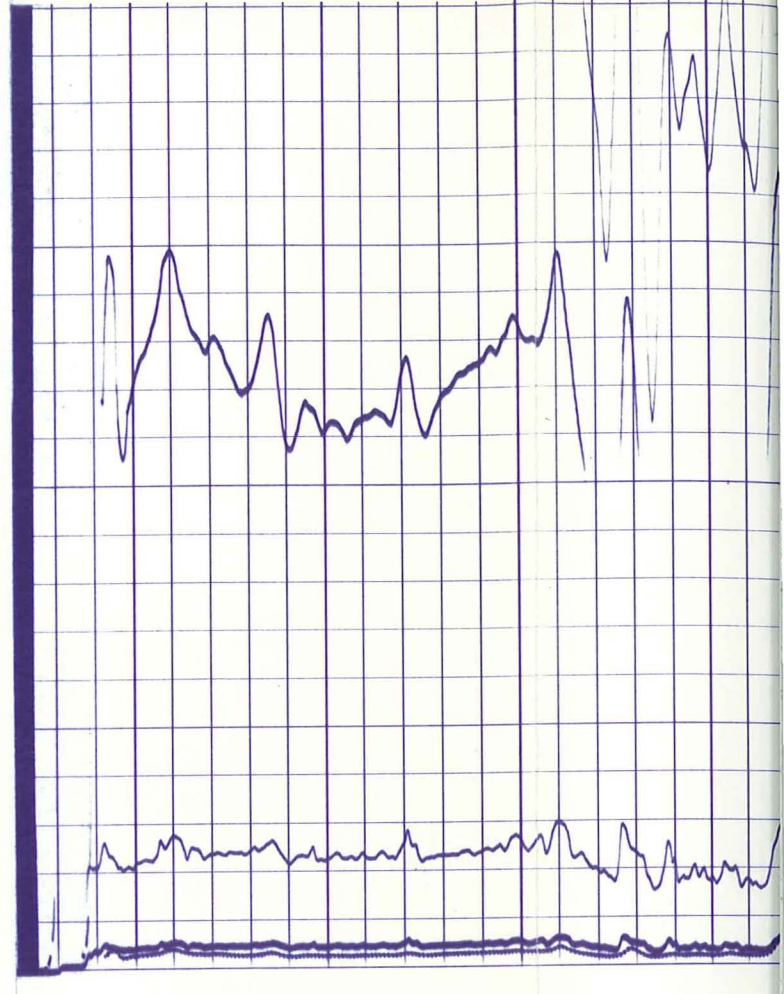
1300

1400

Run 1

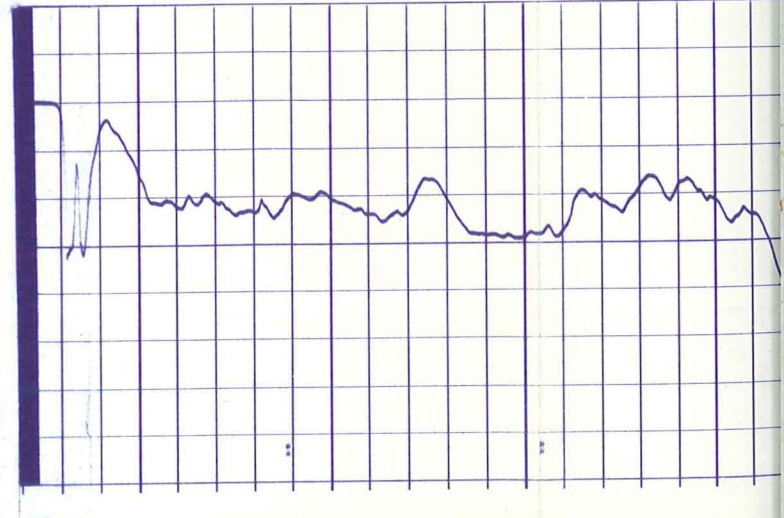
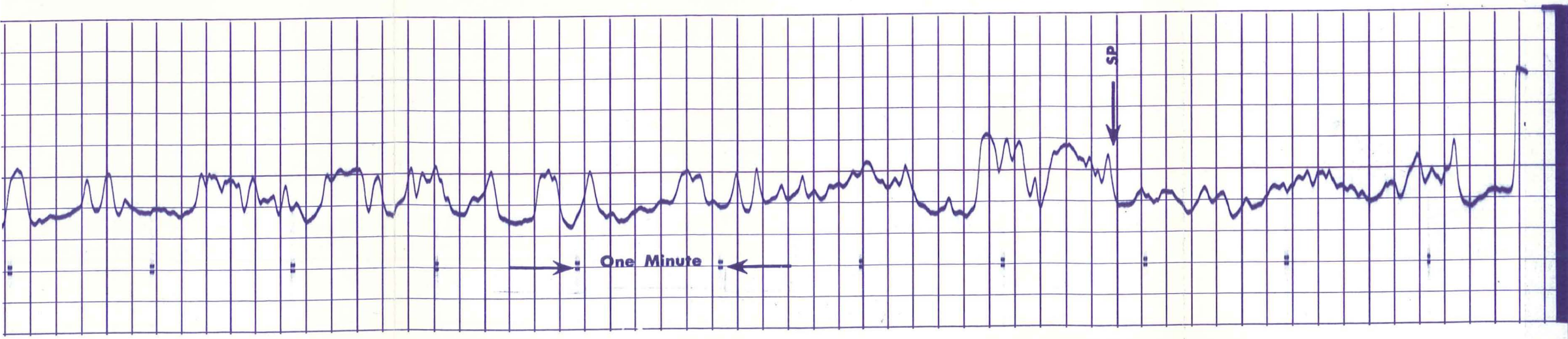


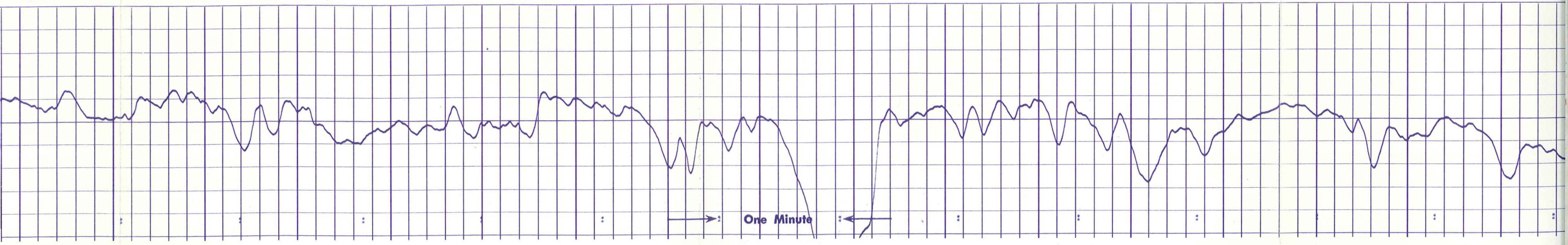
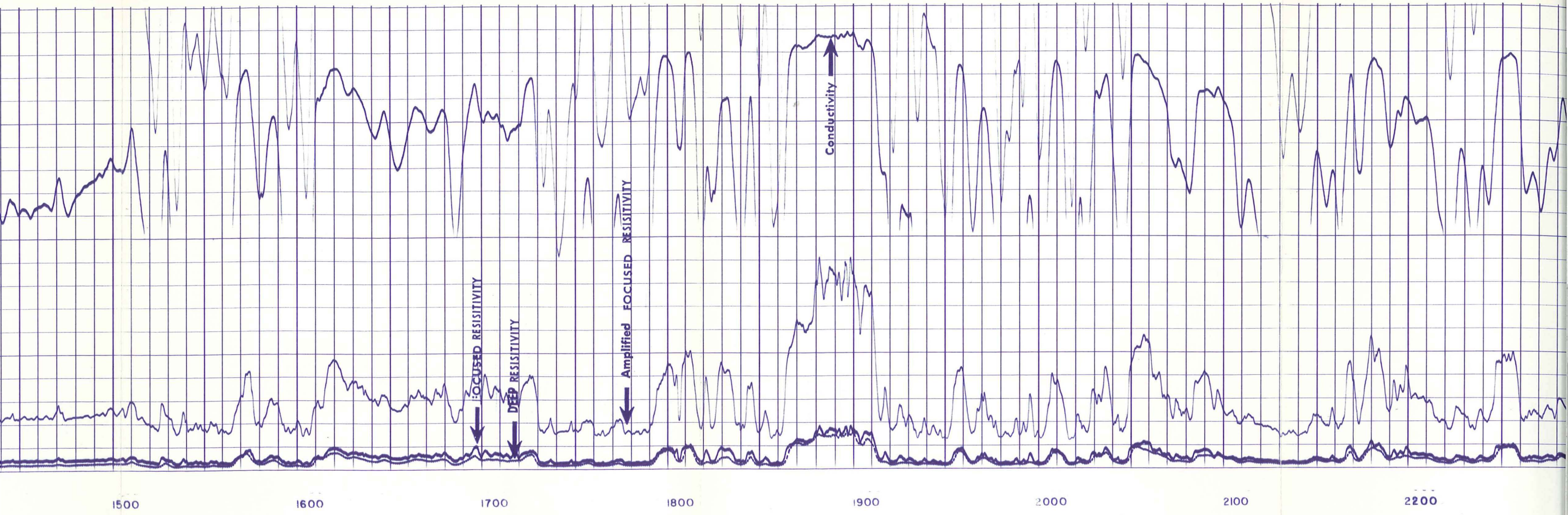
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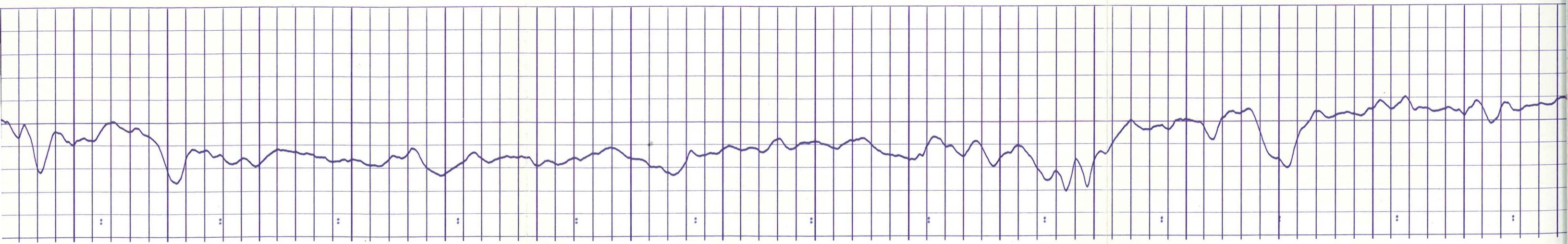
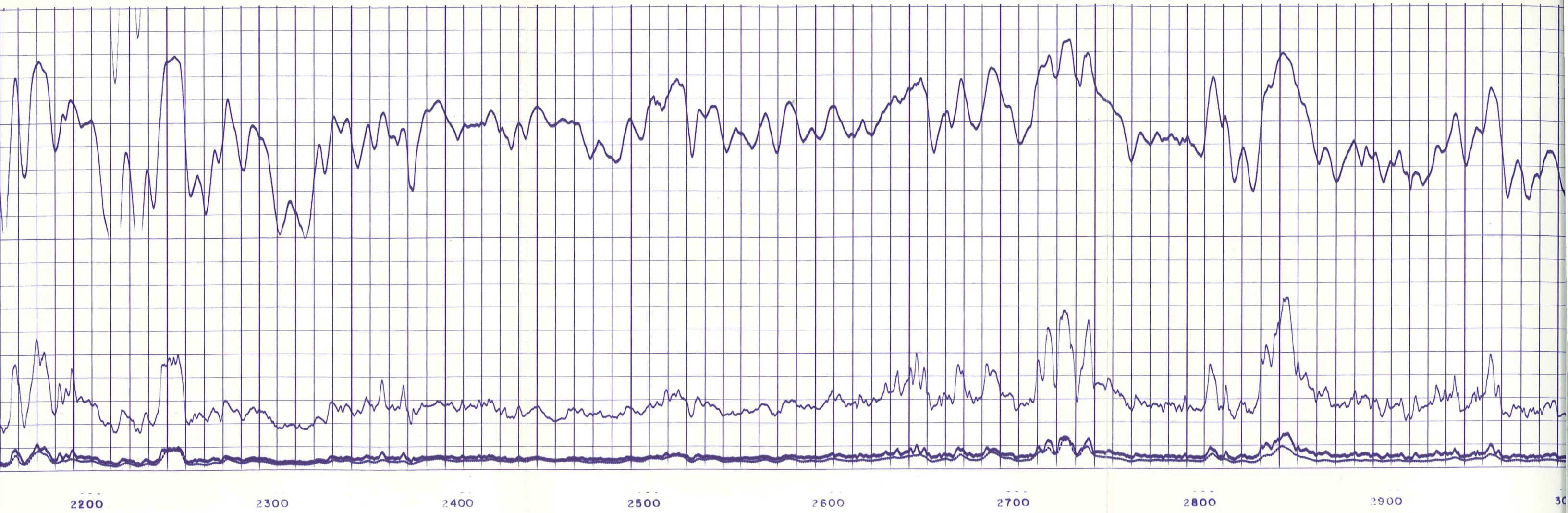


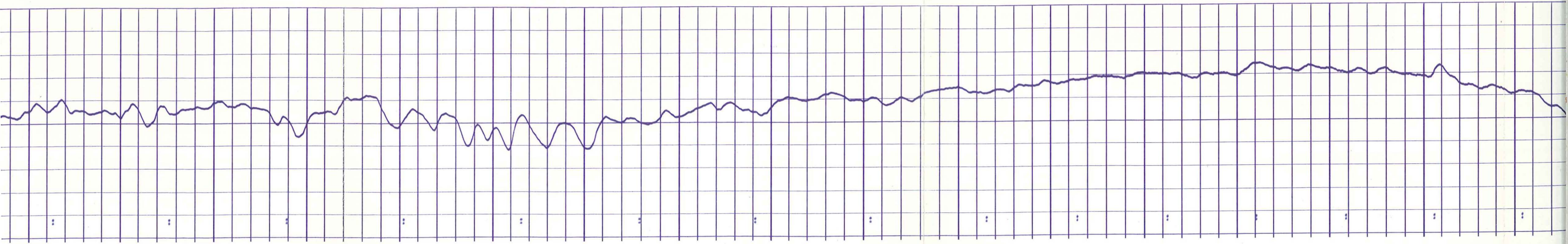
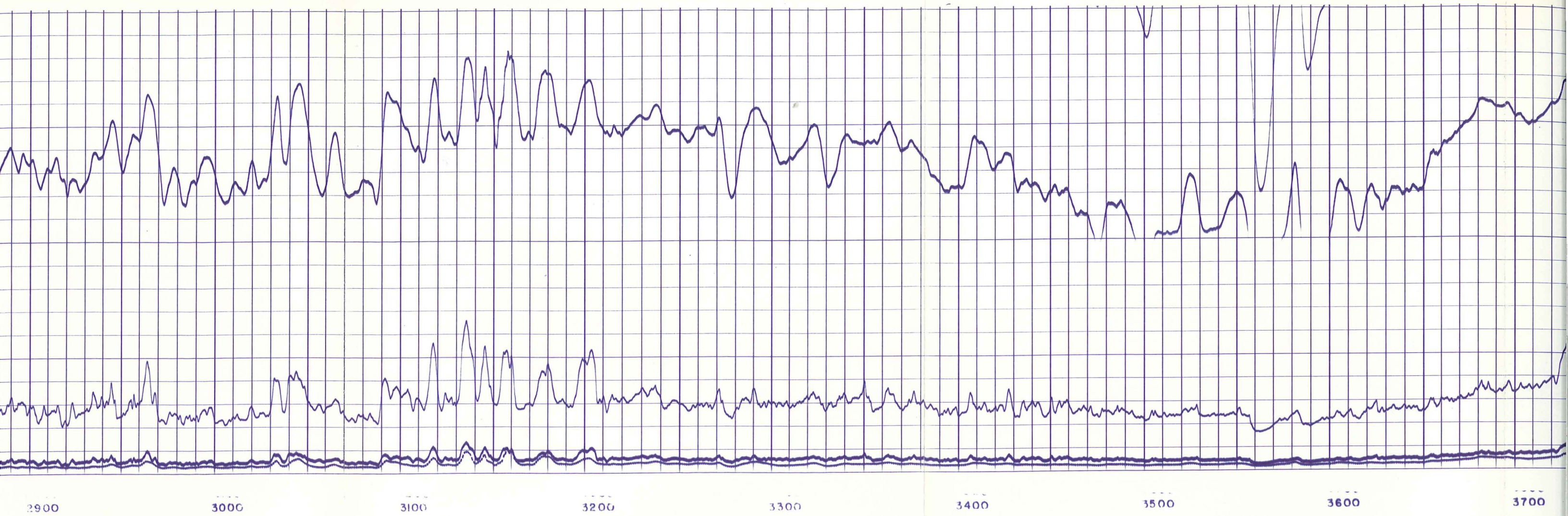
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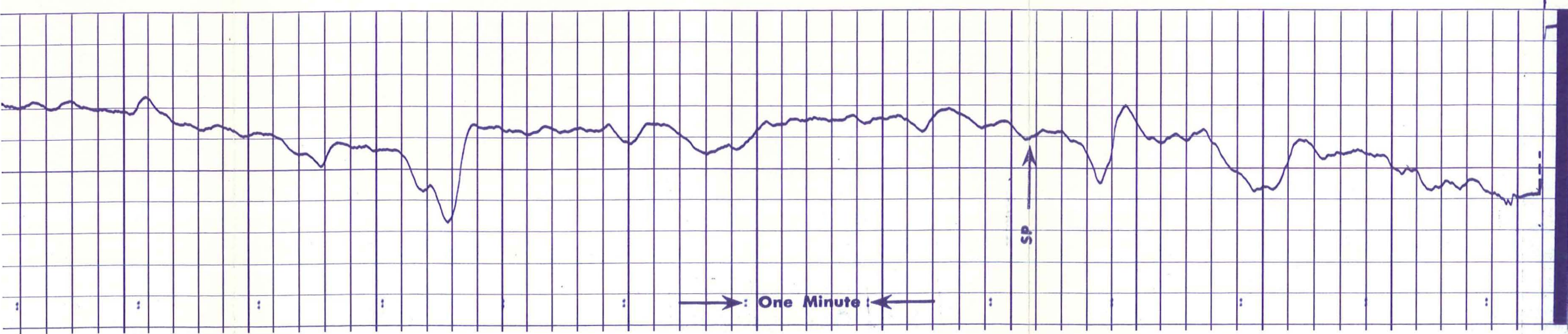
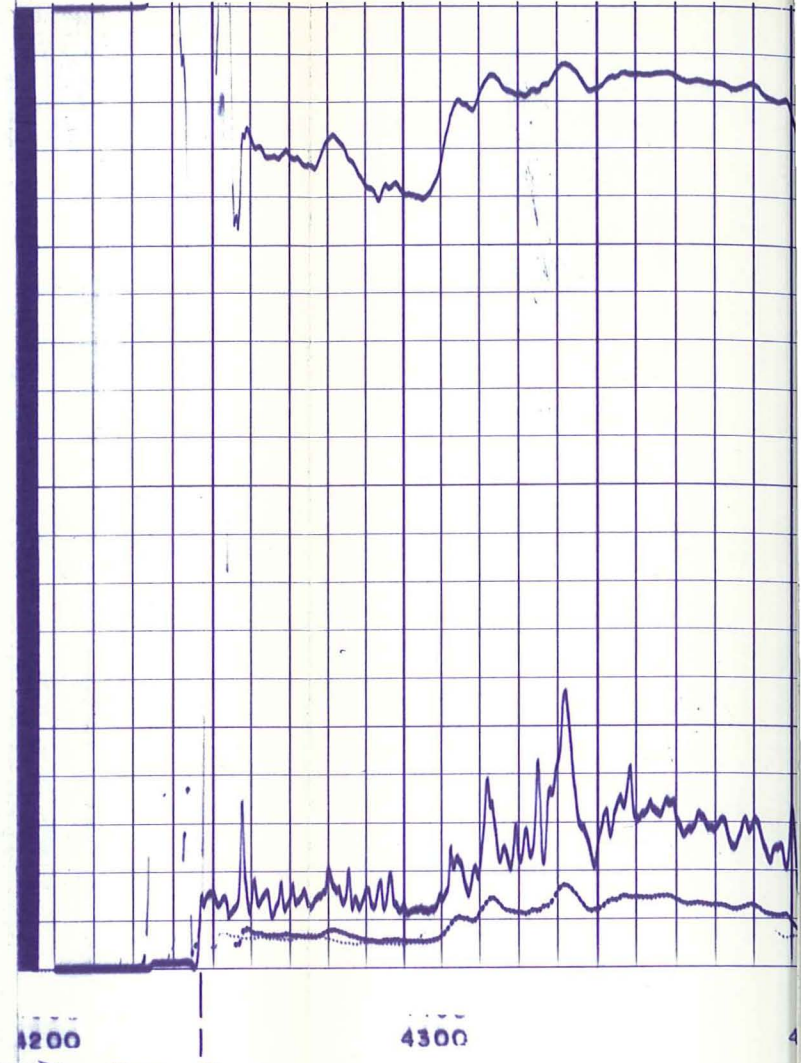
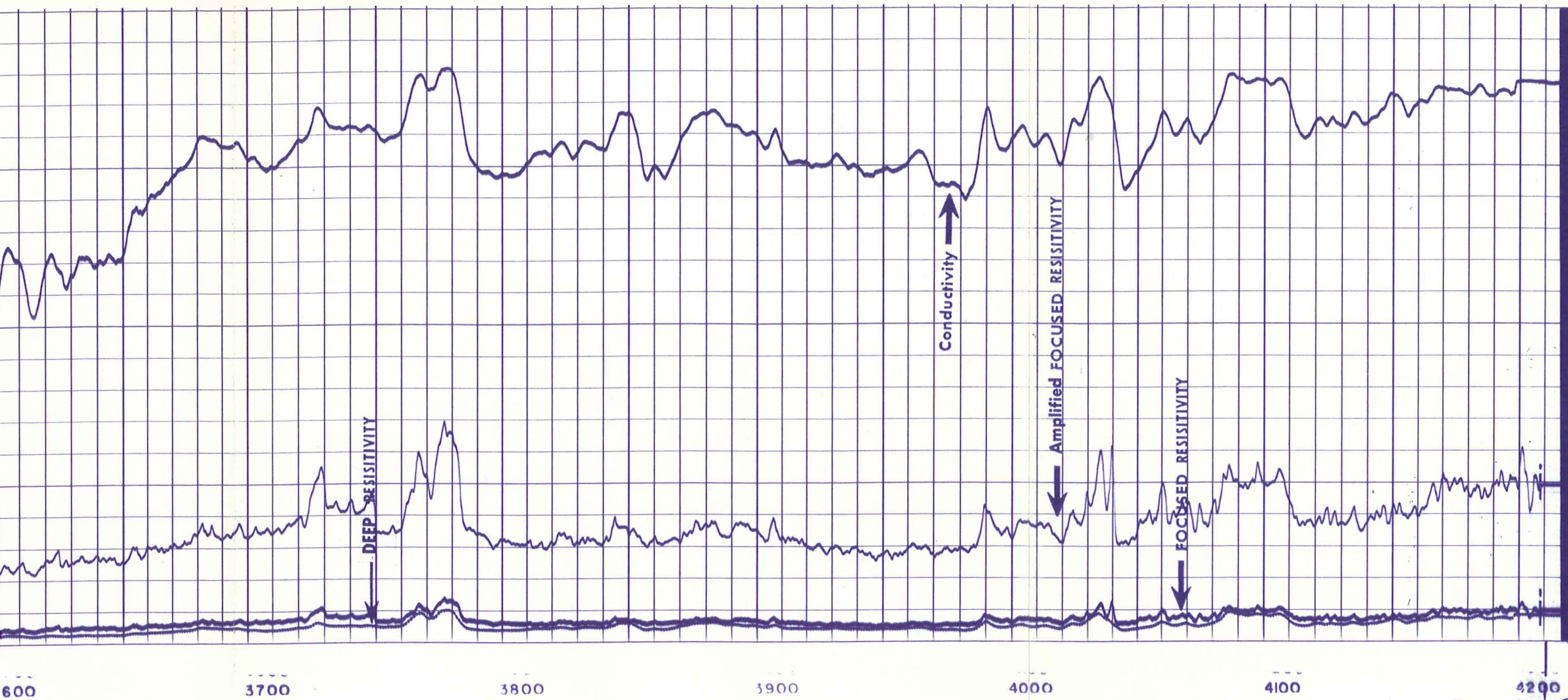
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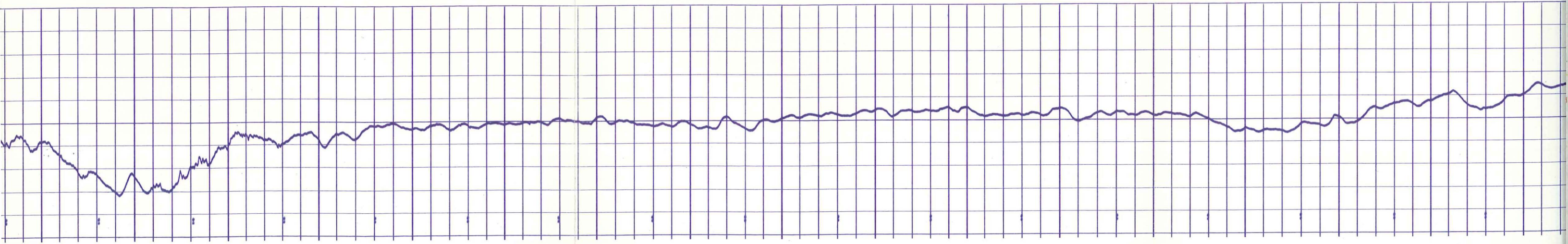
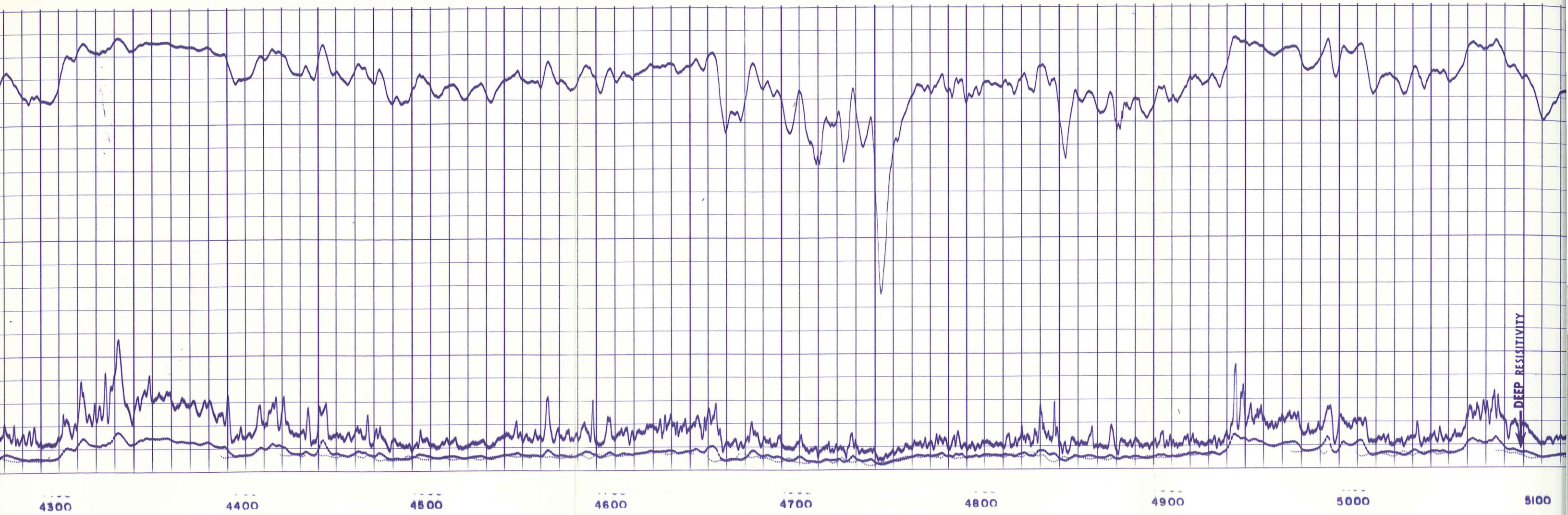


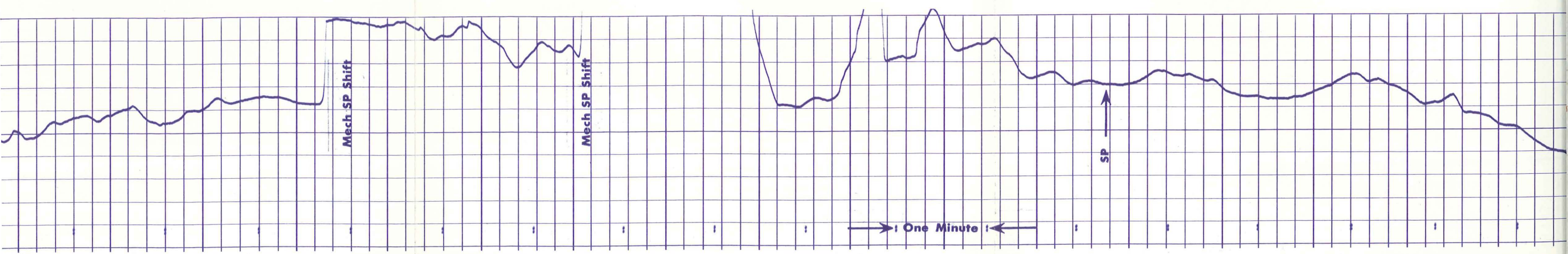
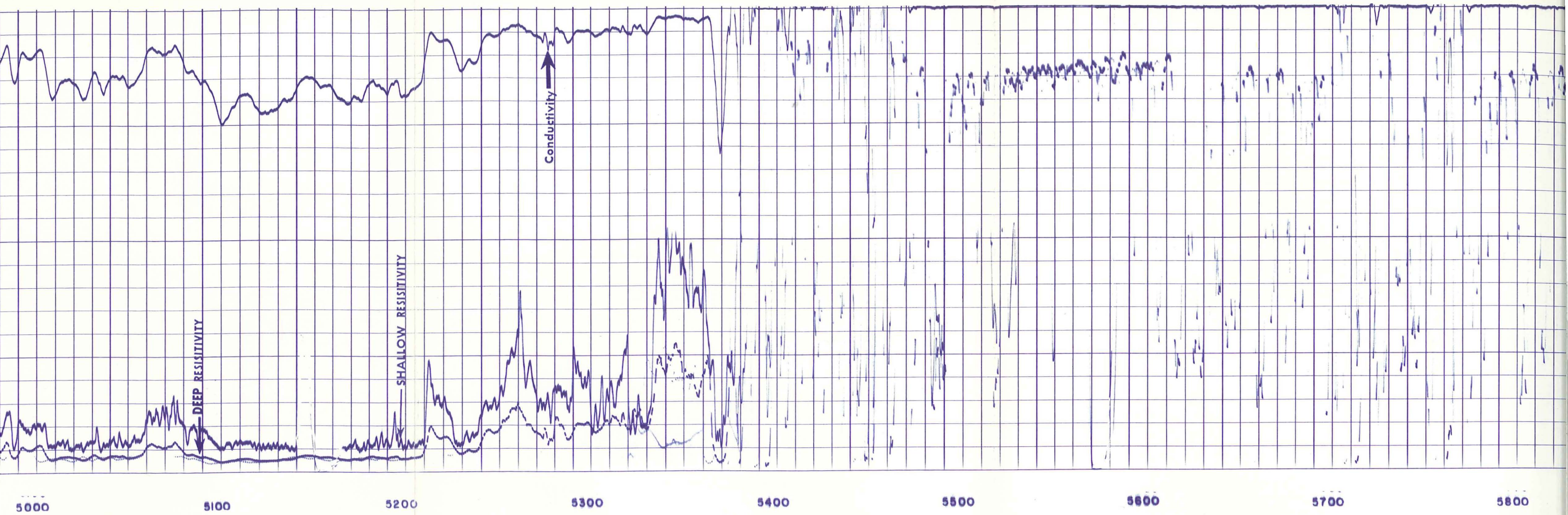


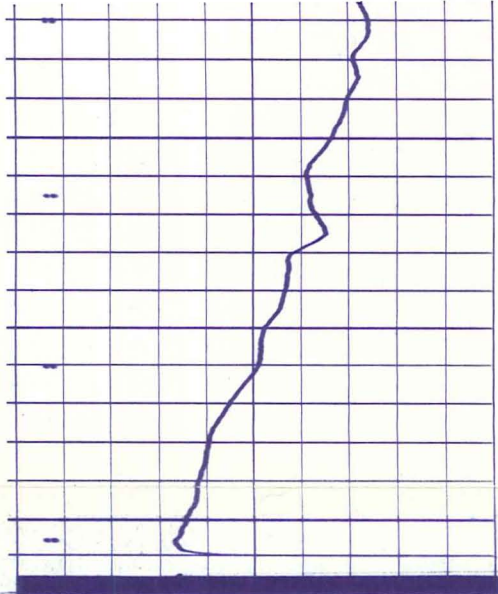




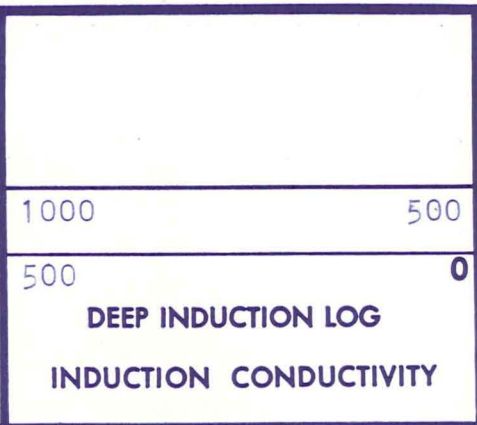
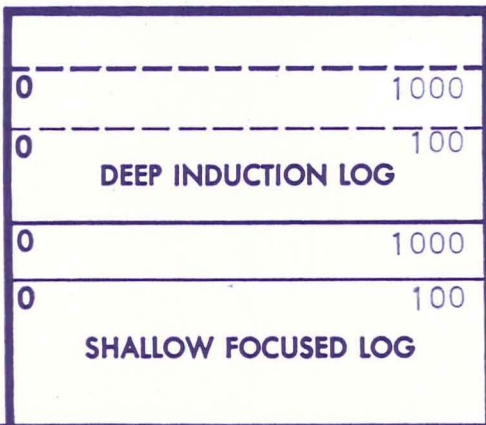
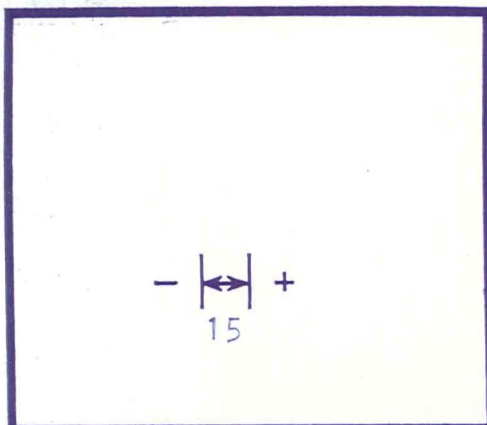
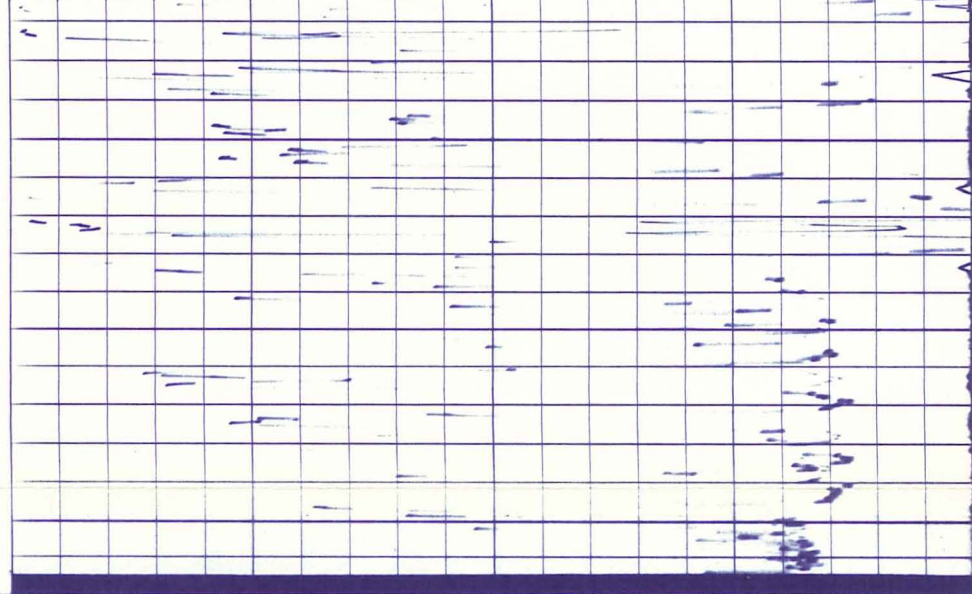
Run 2 ← → Run 3





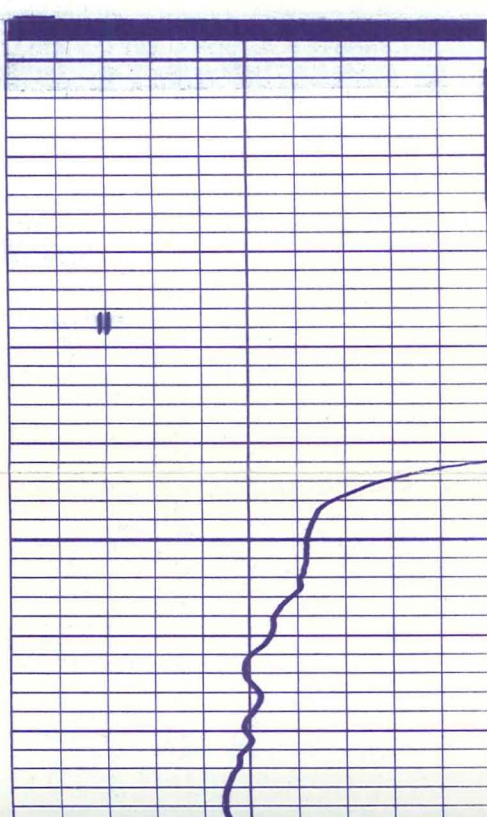


5800

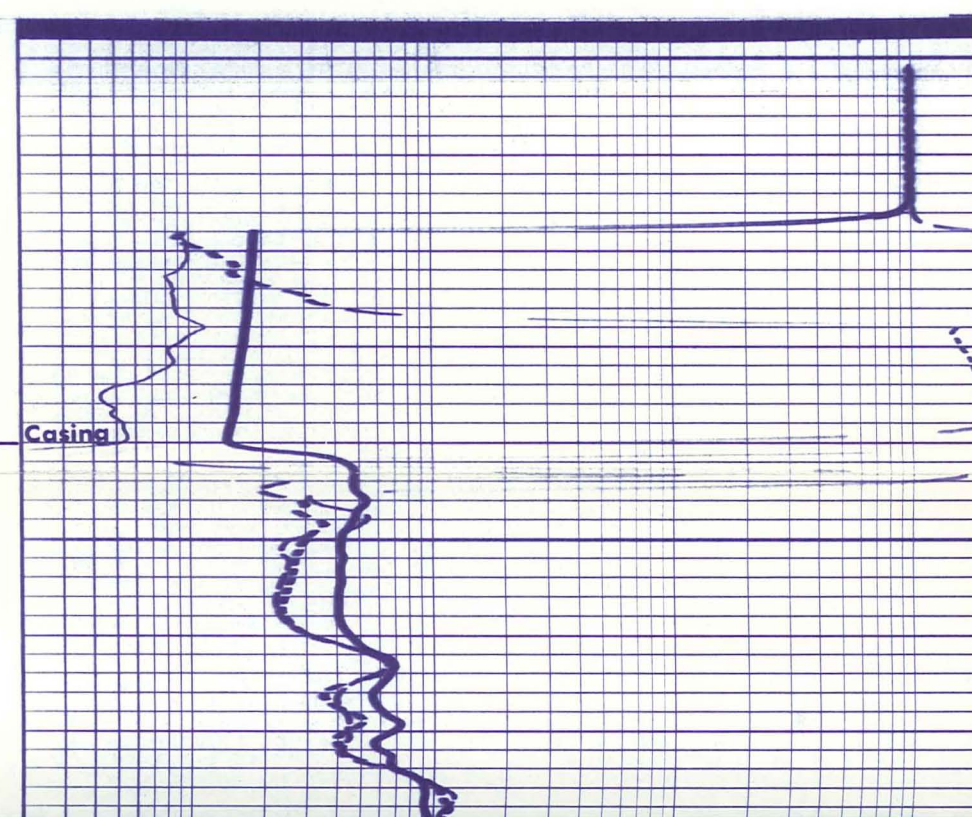


SPONTANEOUS POTENTIAL Millivolts	DEPTH	RESISTIVITY Ohms m ² /m	CONDUCTIVITY Millimhos/m
Company AERO JET NUCLEAR INEL Well RRGE #3 Field RAFT RIVER GEOTHERMAL County CASSIA State IDAHO			
		Drillers T.D. 5868 Log F.R. 5863 Log T.D. 5865 Elevations: K.B. 4878 D.F. 4876 G.L. 4860	

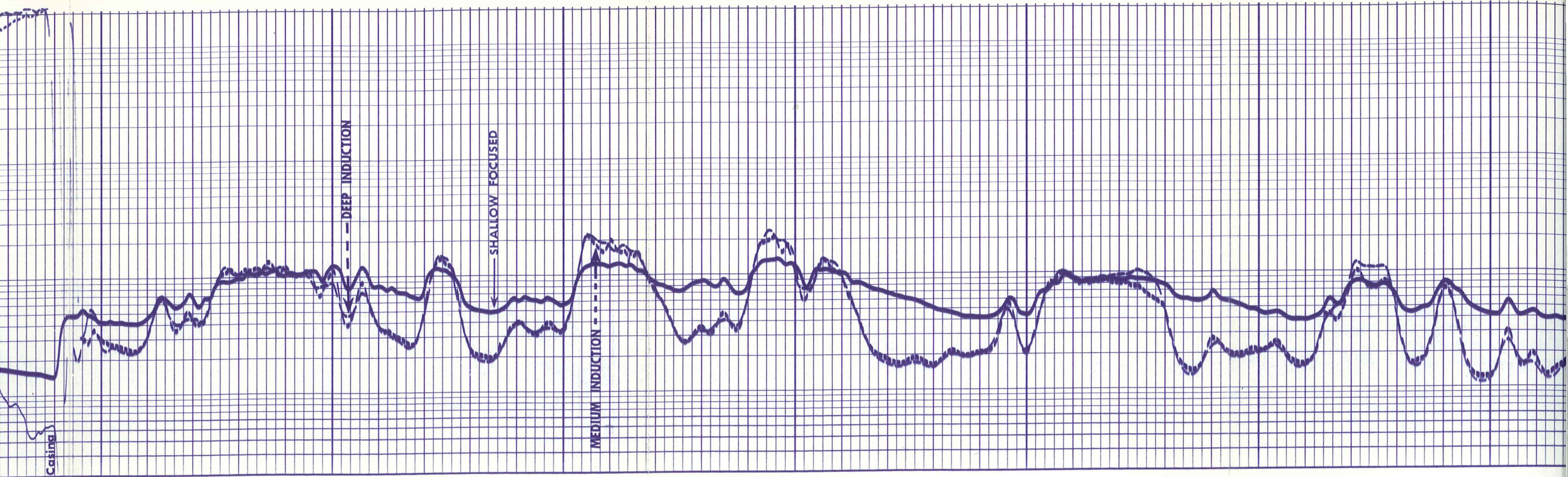
SPONTANEOUS POTENTIAL Millivolts	DEPTH	RESISTIVITY ohms - m ² /m
		SHALLOW FOCUSED LOG .2 1.0 10 100 1000
		MEDIUM INDUCTION LOG .2 1.0 10 100 1000
		DEEP INDUCTION LOG .2 1.0 10 100 1000



100



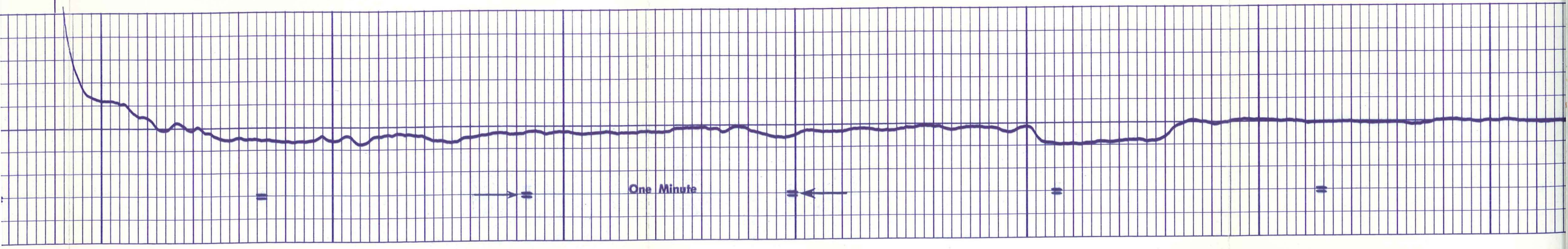
FORM 9354A

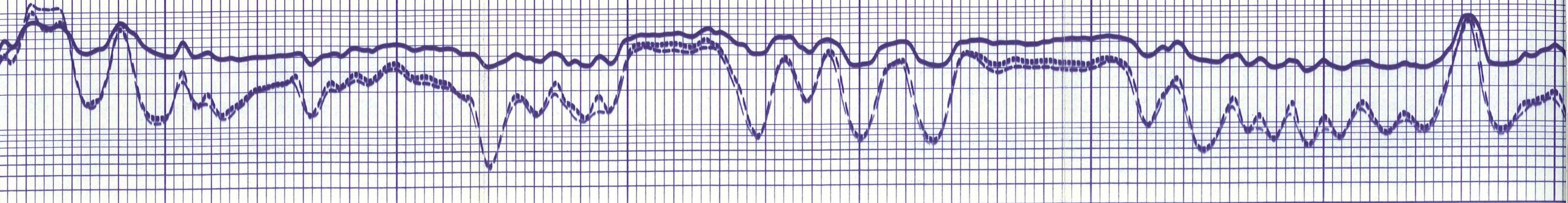


200

300

400

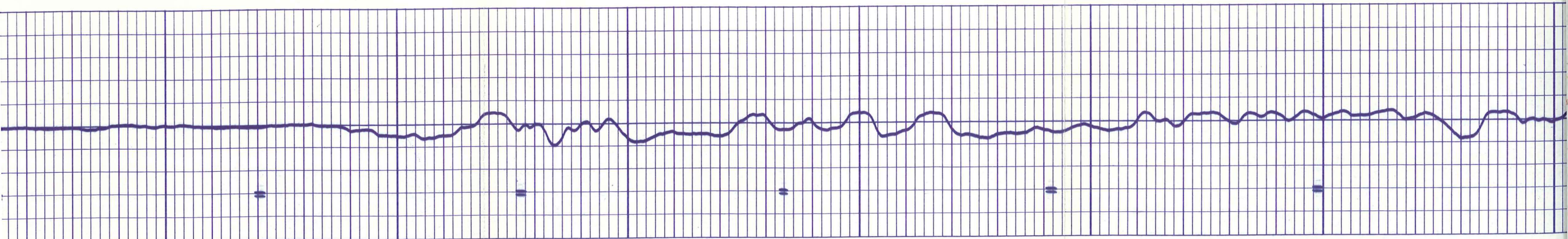


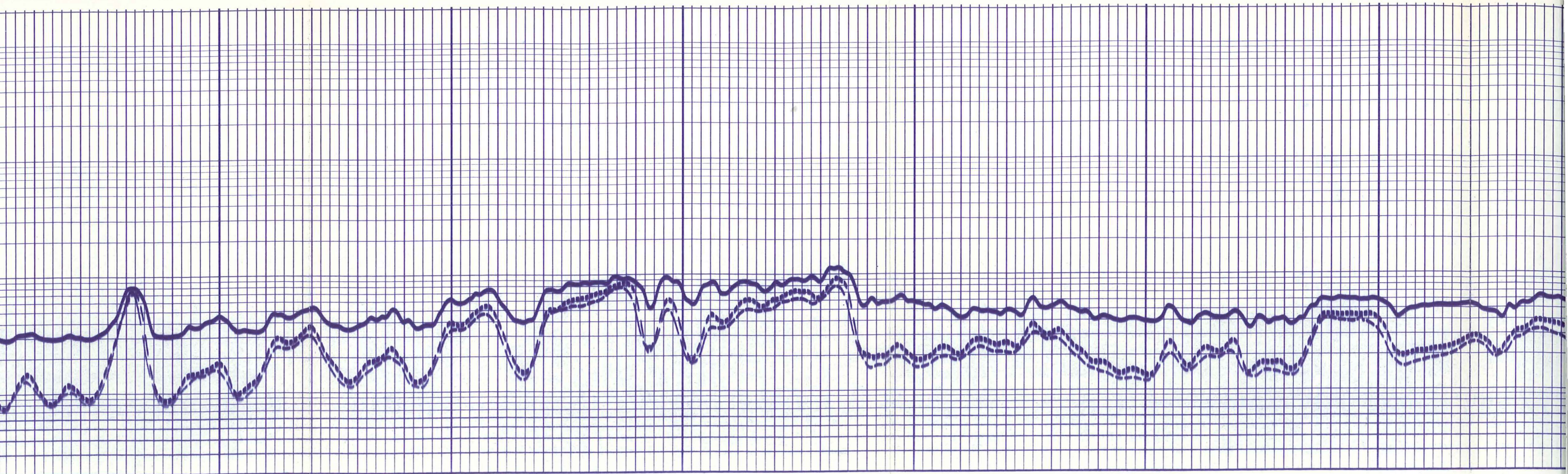


500

600

700

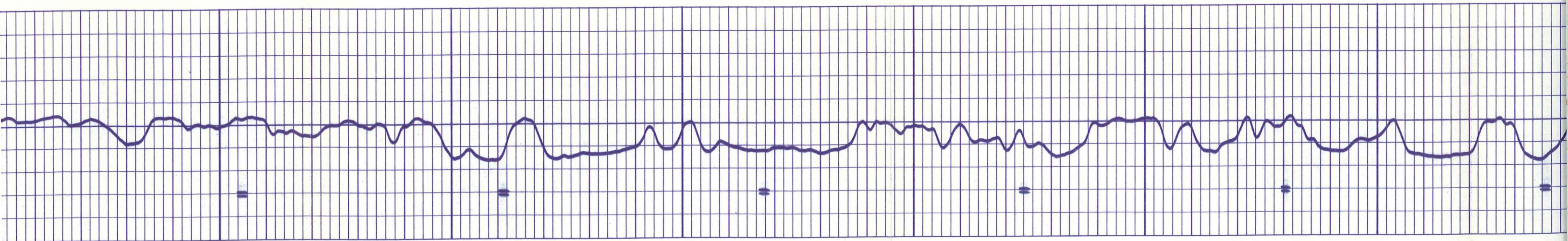


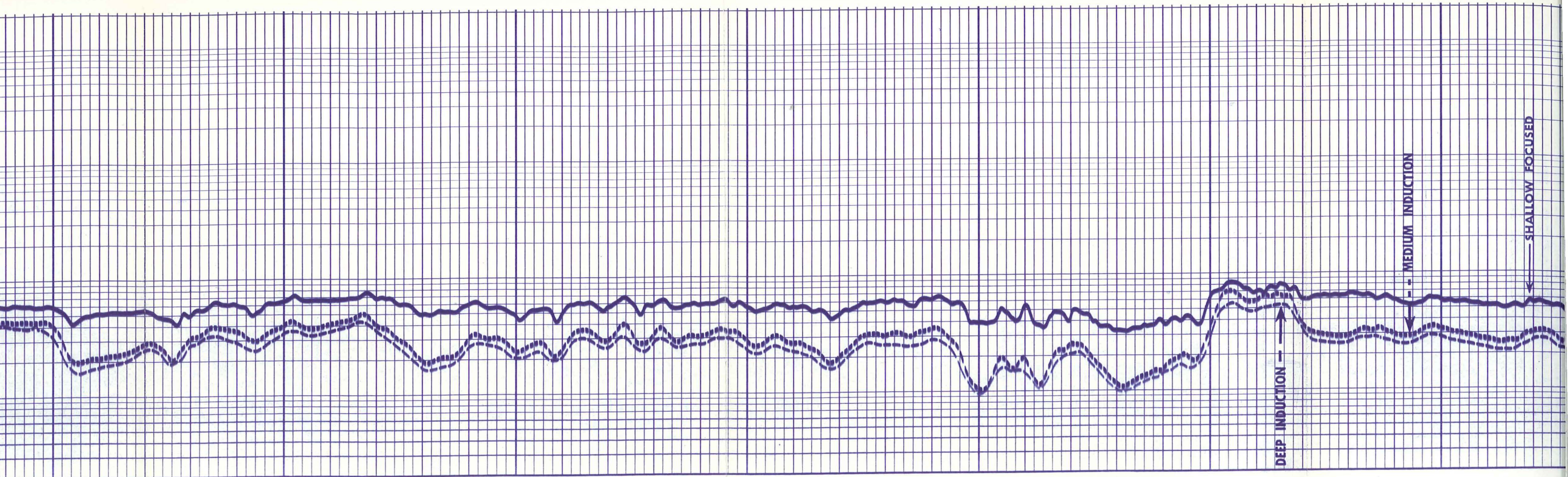


800

900

1000



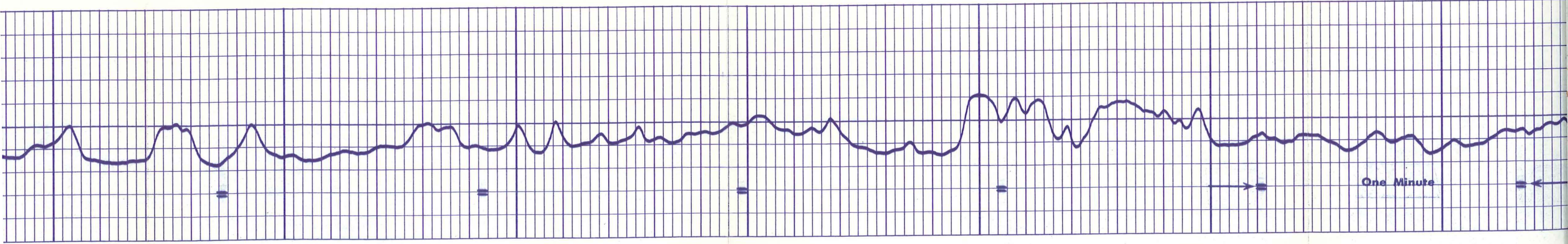


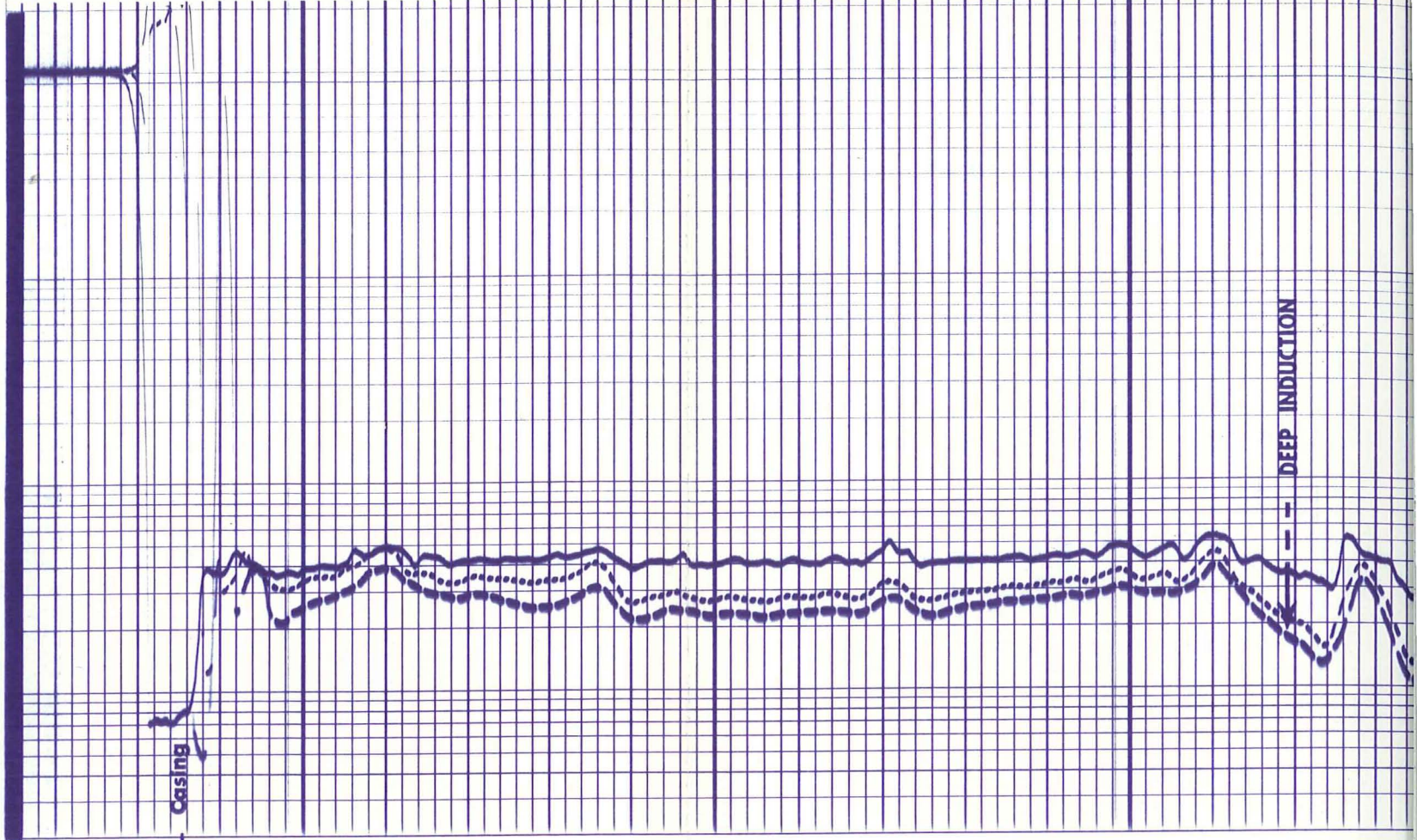
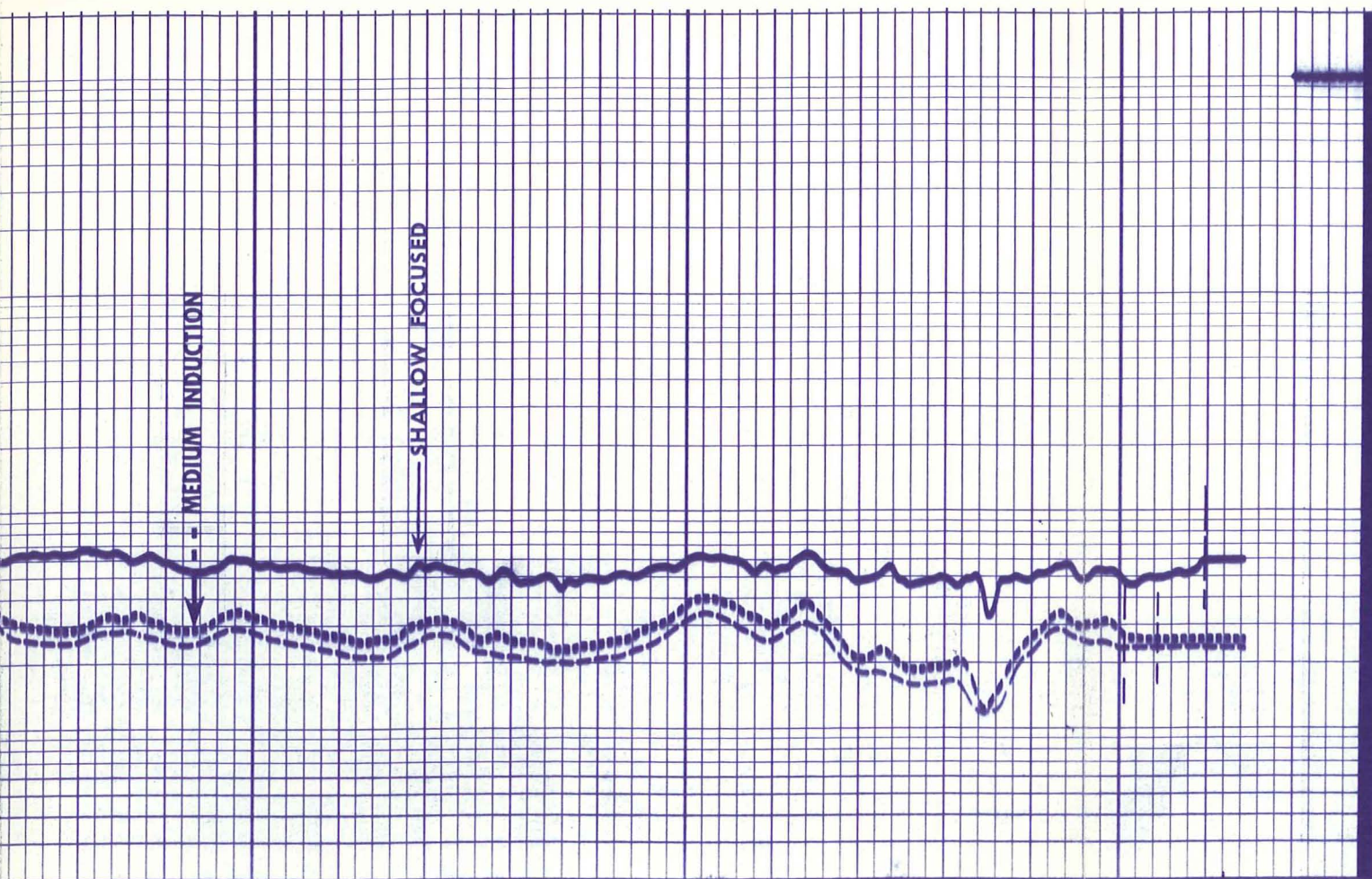
1000

1100

1200

1300





1300

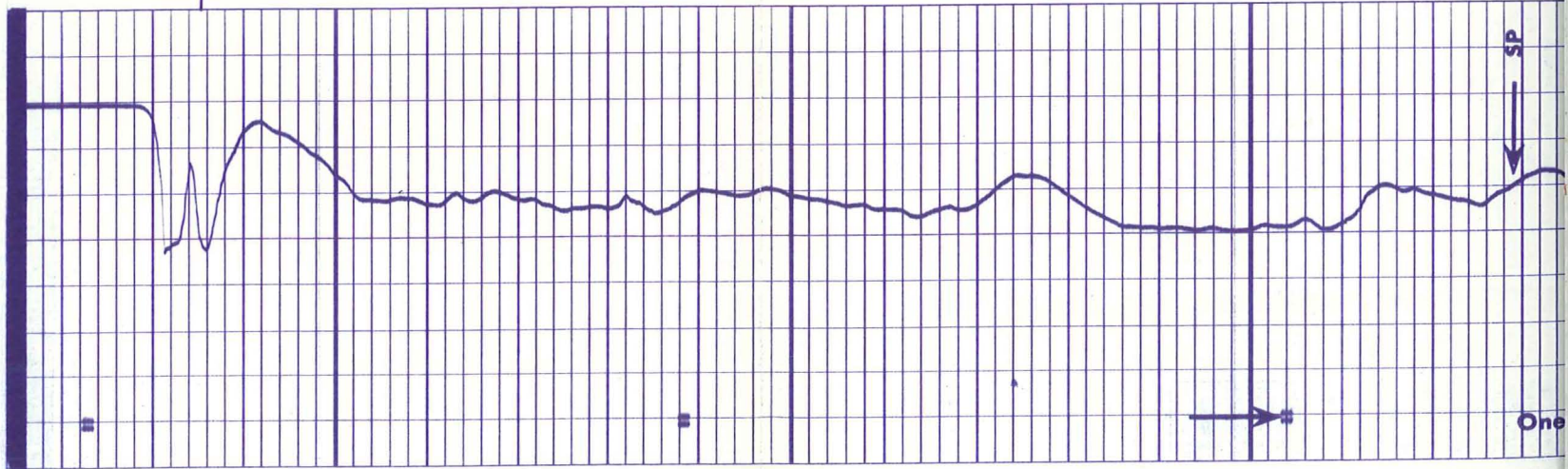
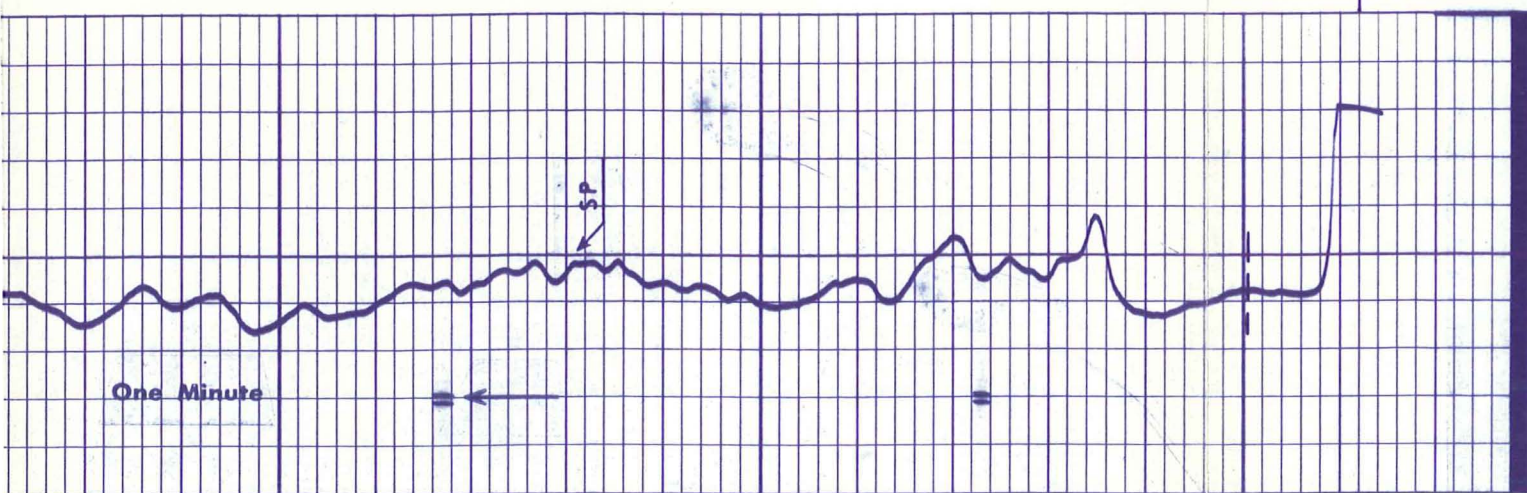
1400

Run 1

Run 2

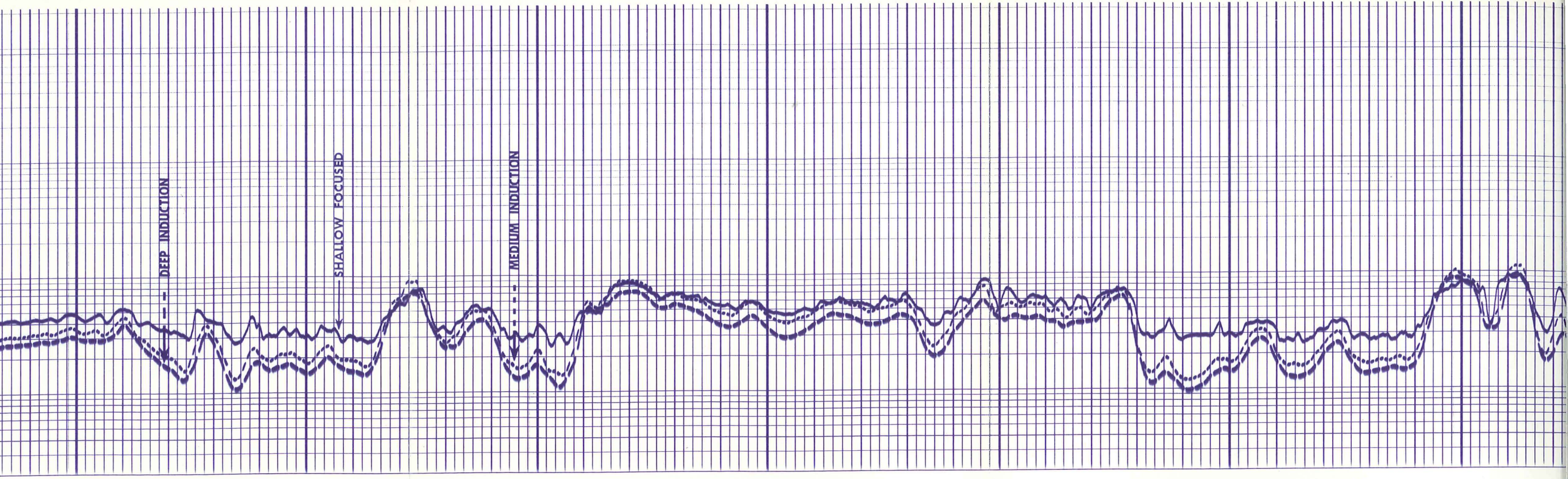
1400

1500



One Minute

One

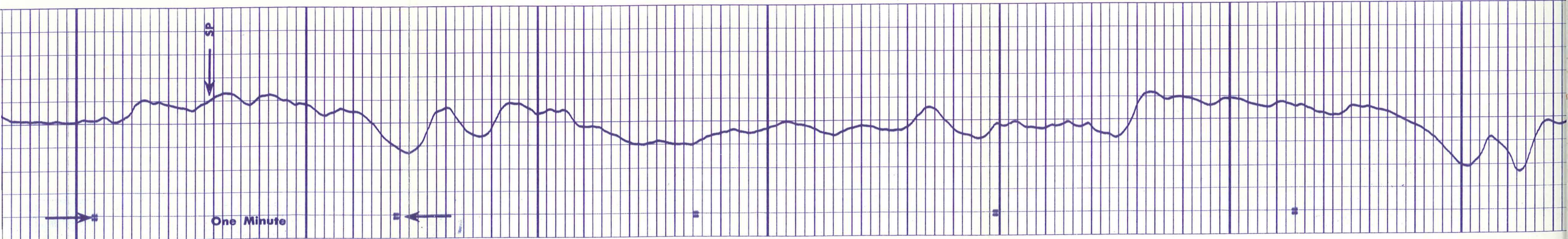


150

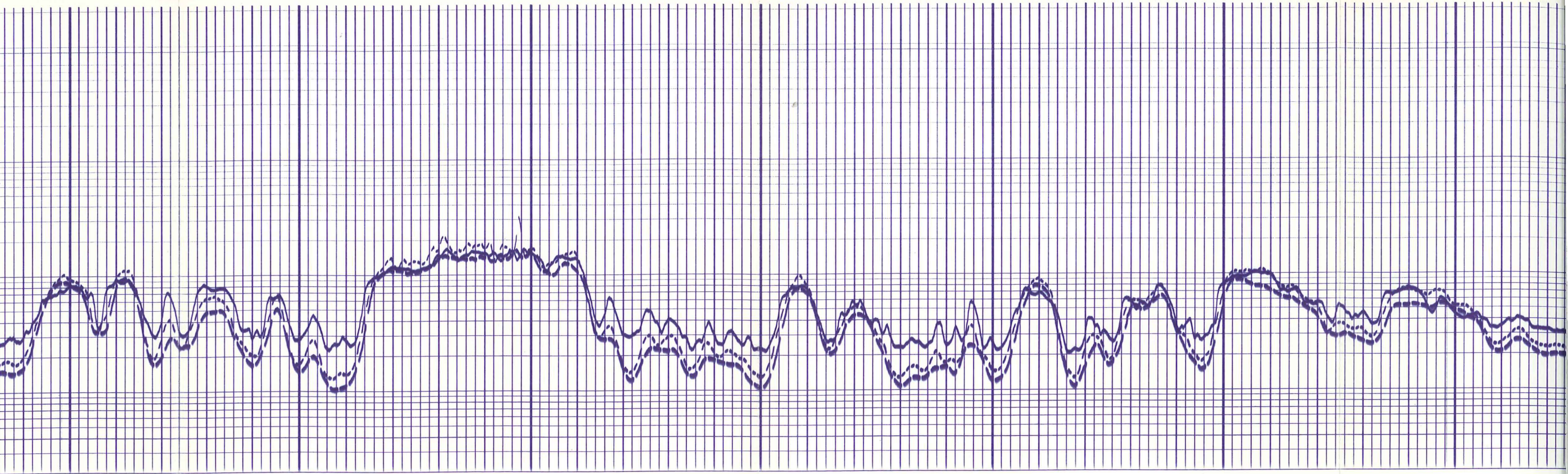
160

170

180



One Minute

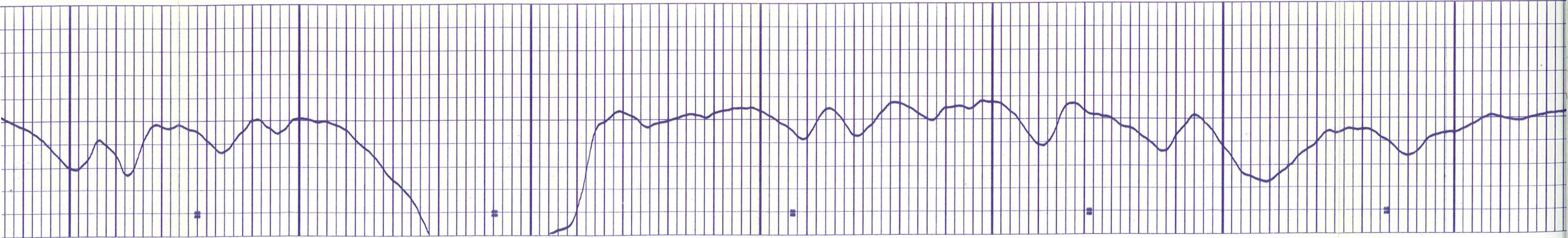


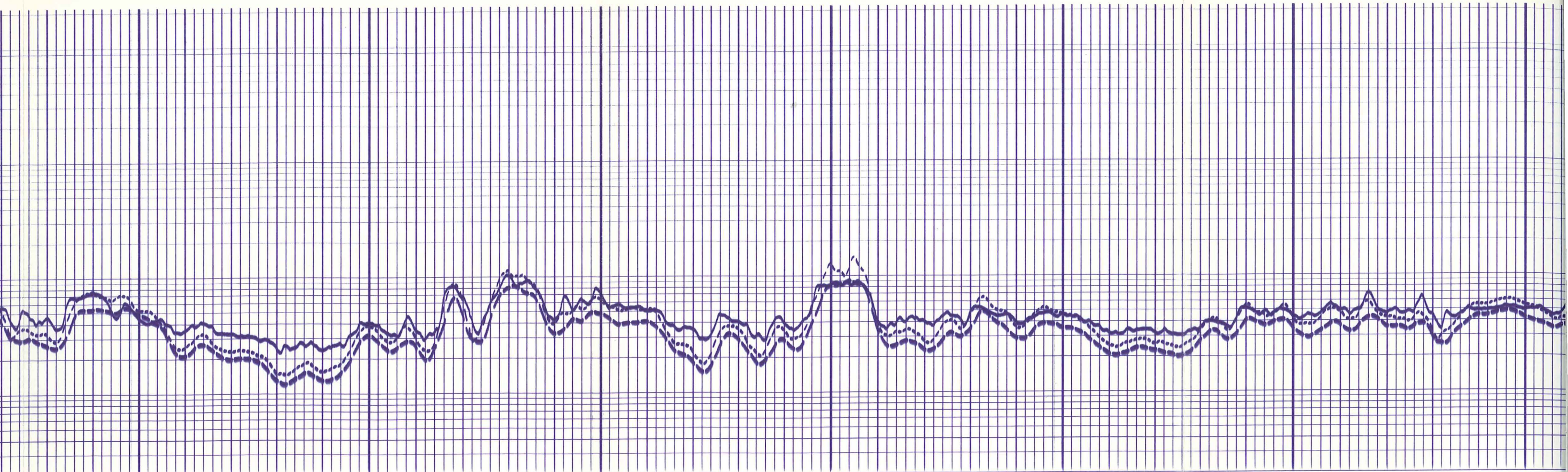
800

900

000

2100



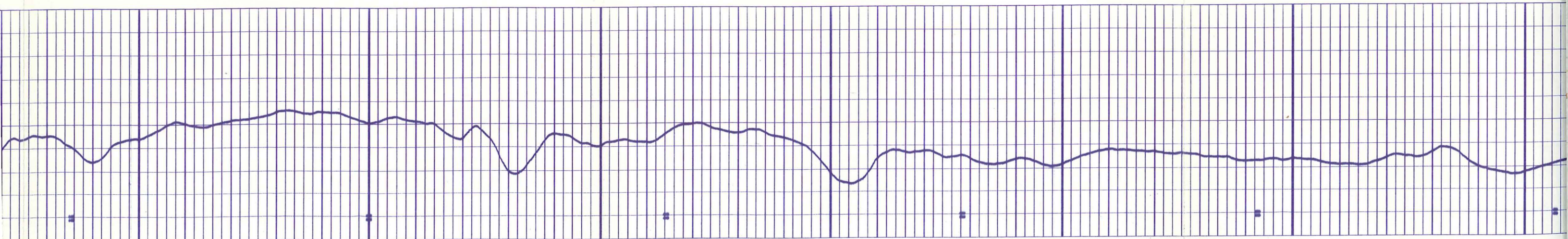


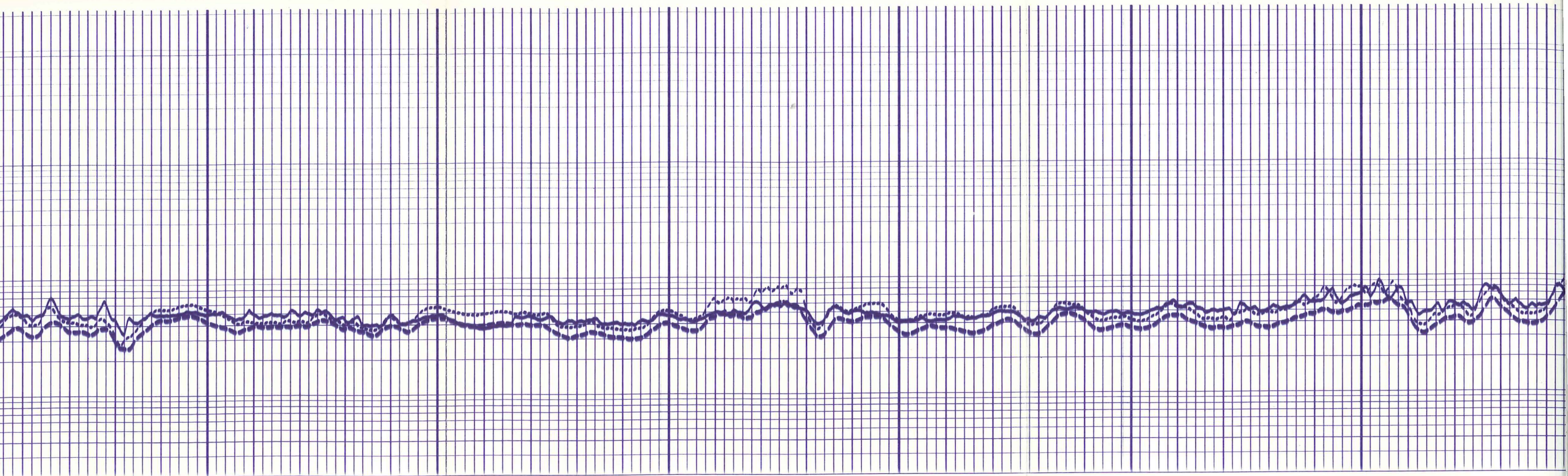
2100

2200

2300

2400

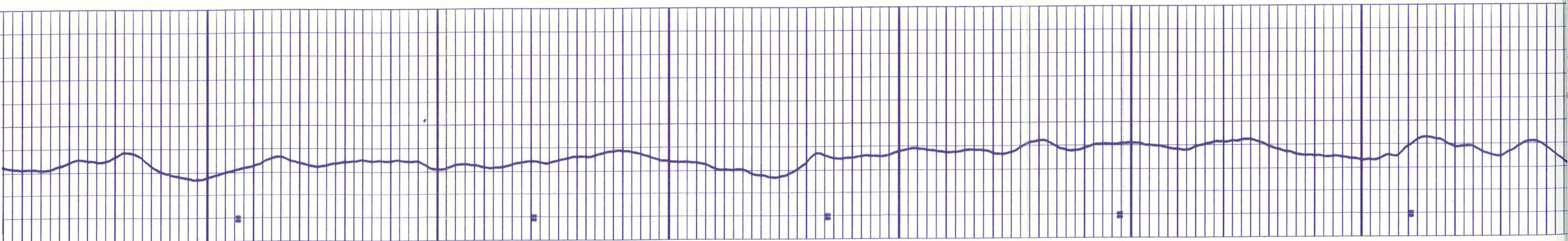


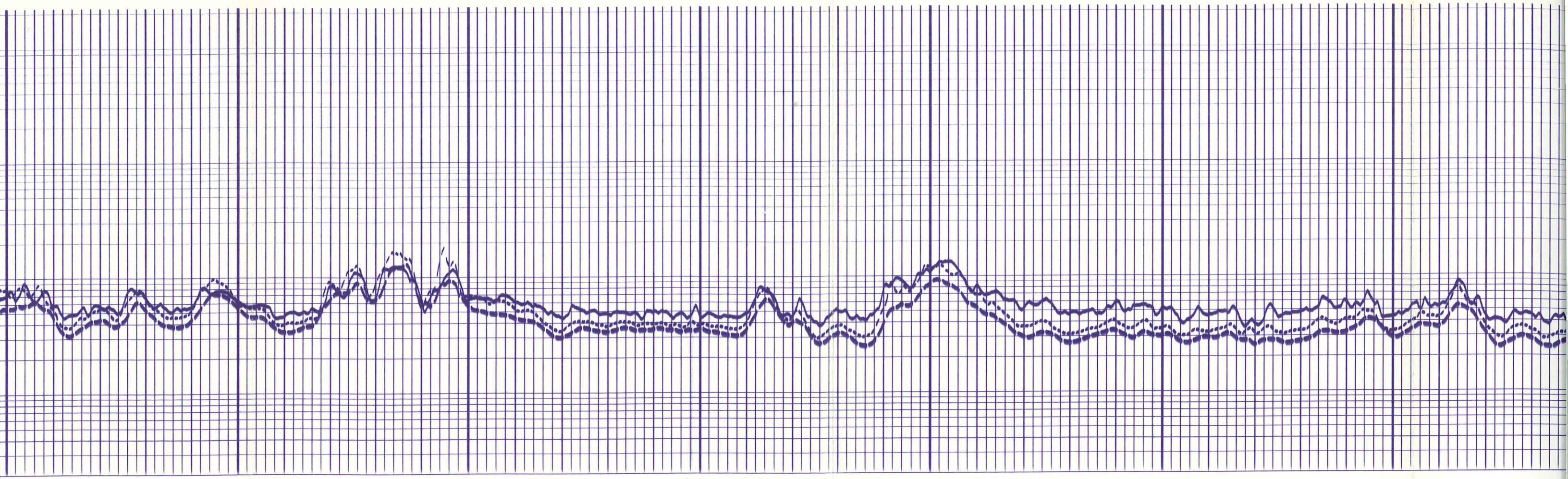


2400

2500

2600

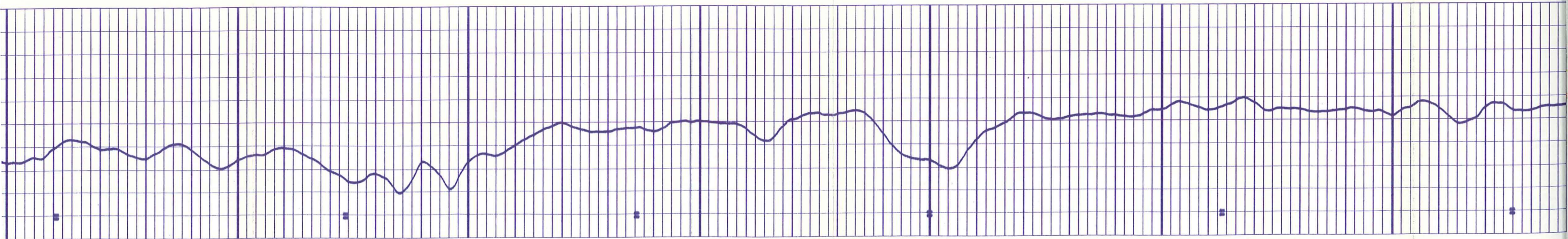


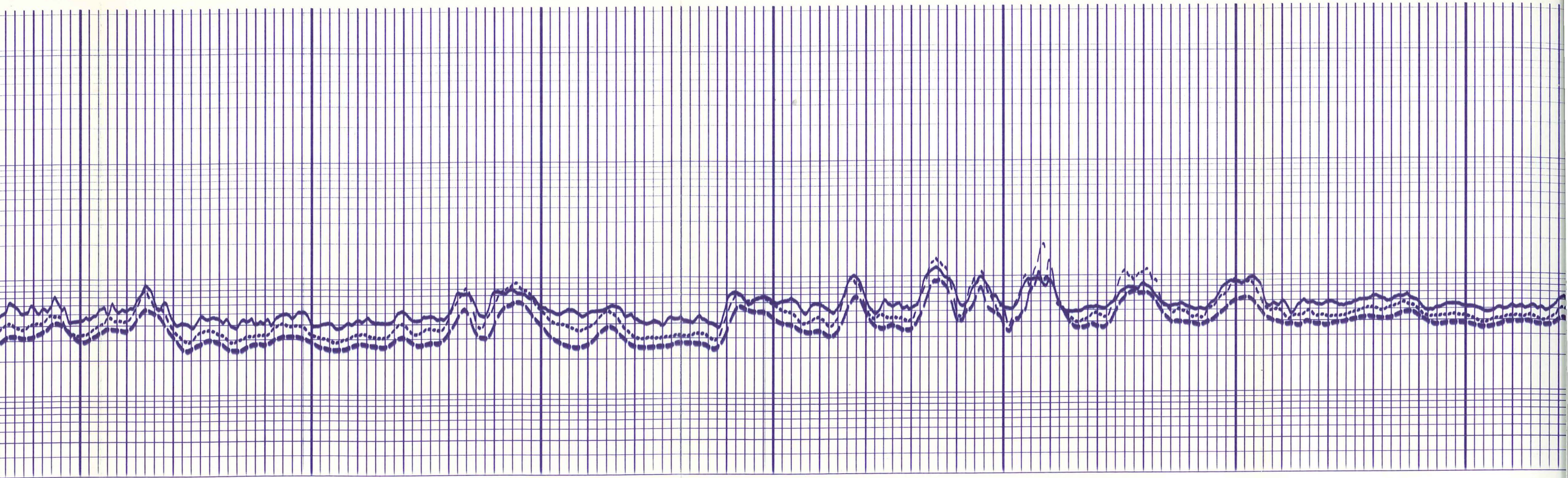


2700

2800

2900

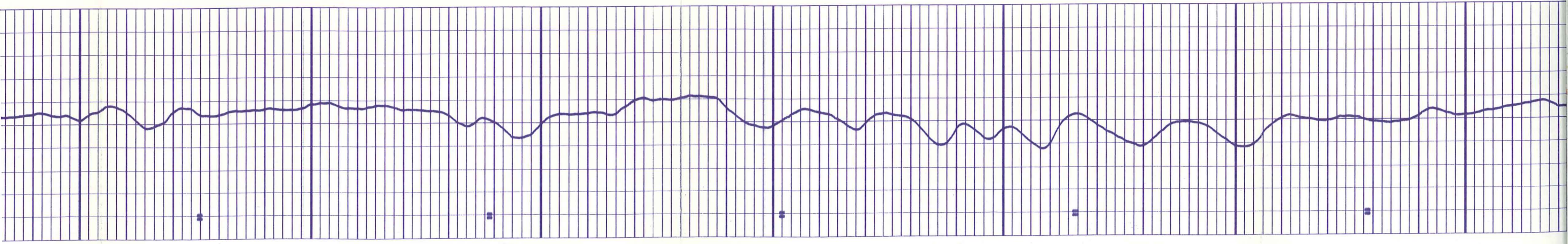


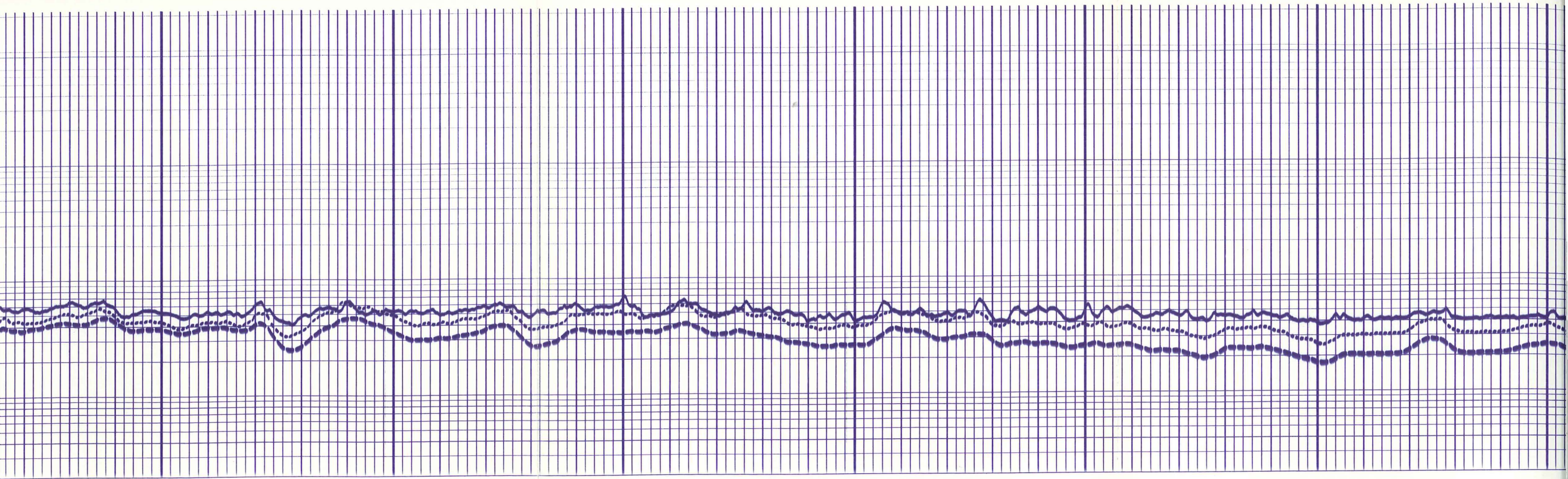


3000

3100

3200

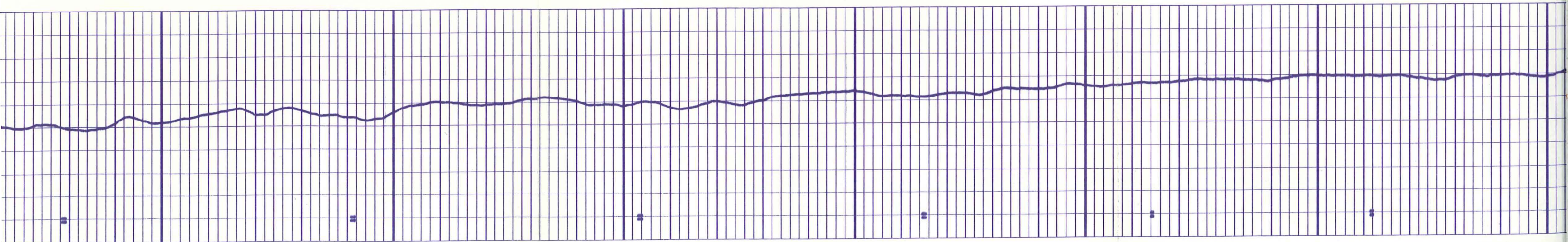


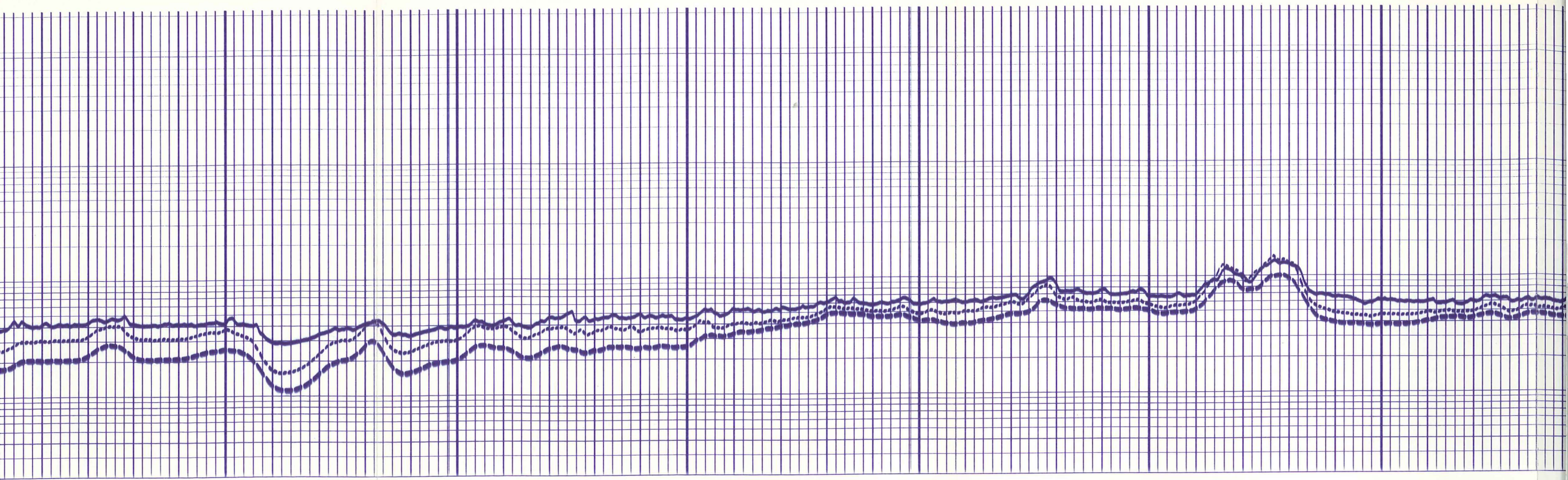


3300

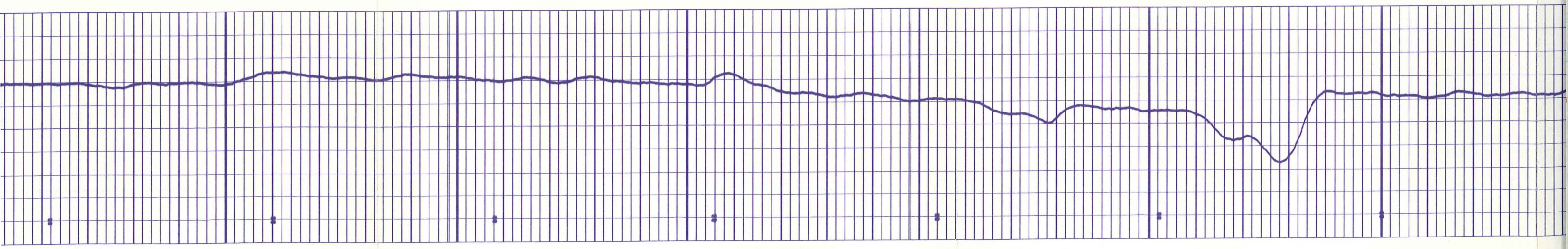
3400

3500





0 3600 3700 3800



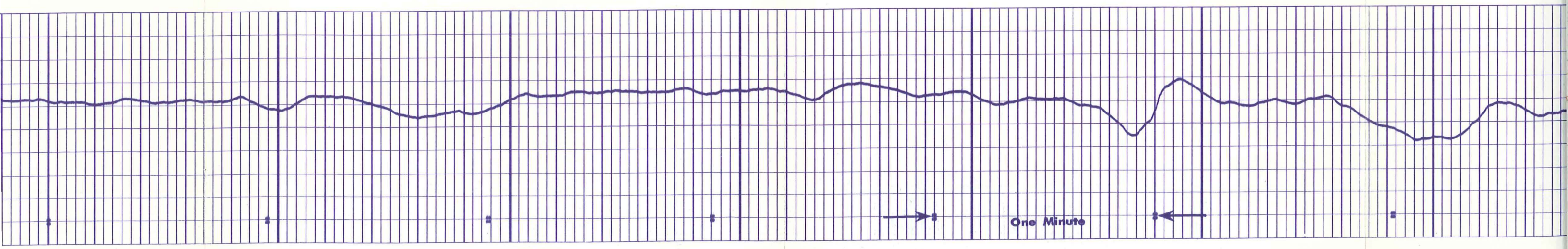


3800

3900

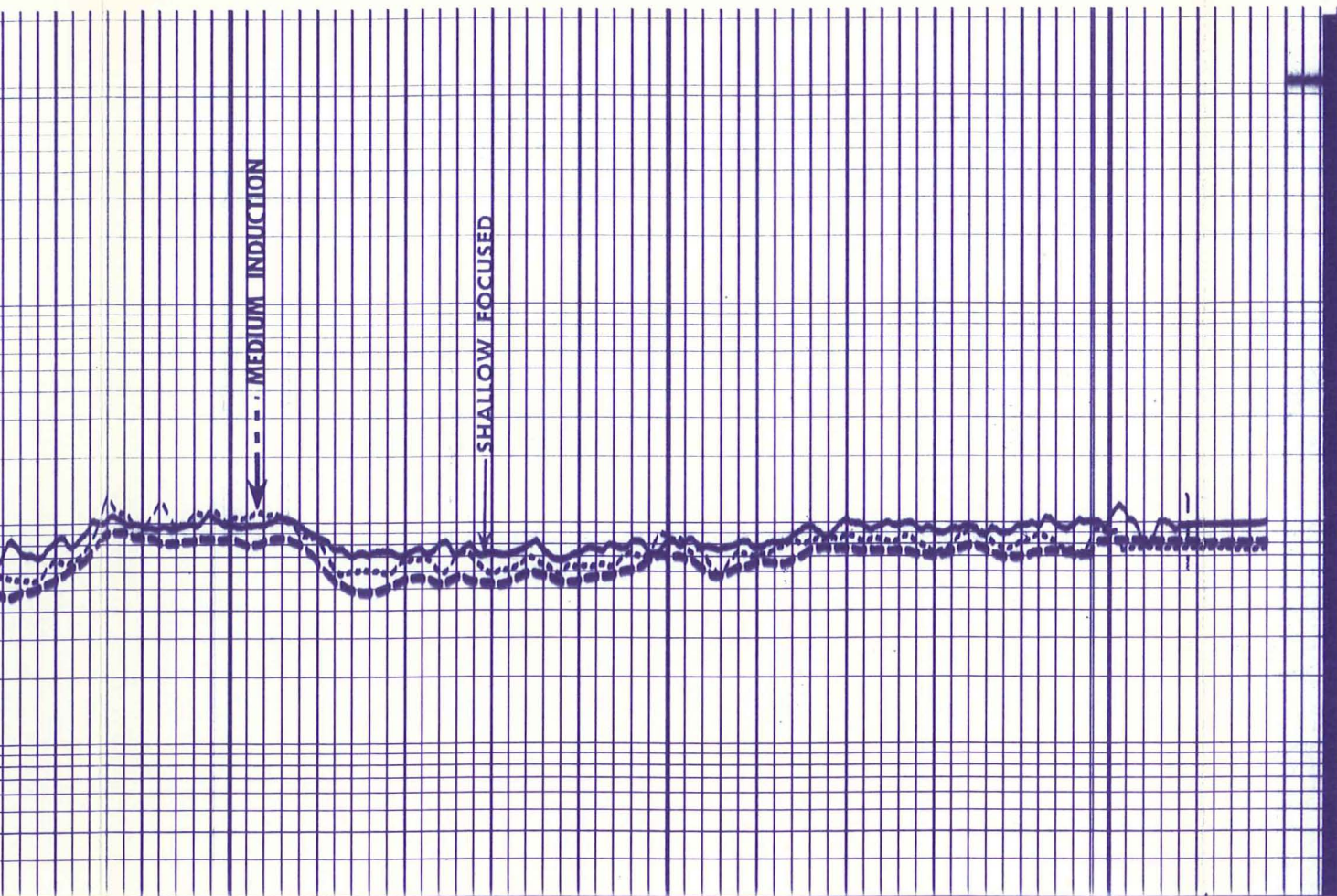
4000

4100



One Minute

CUTAWAY FACILE



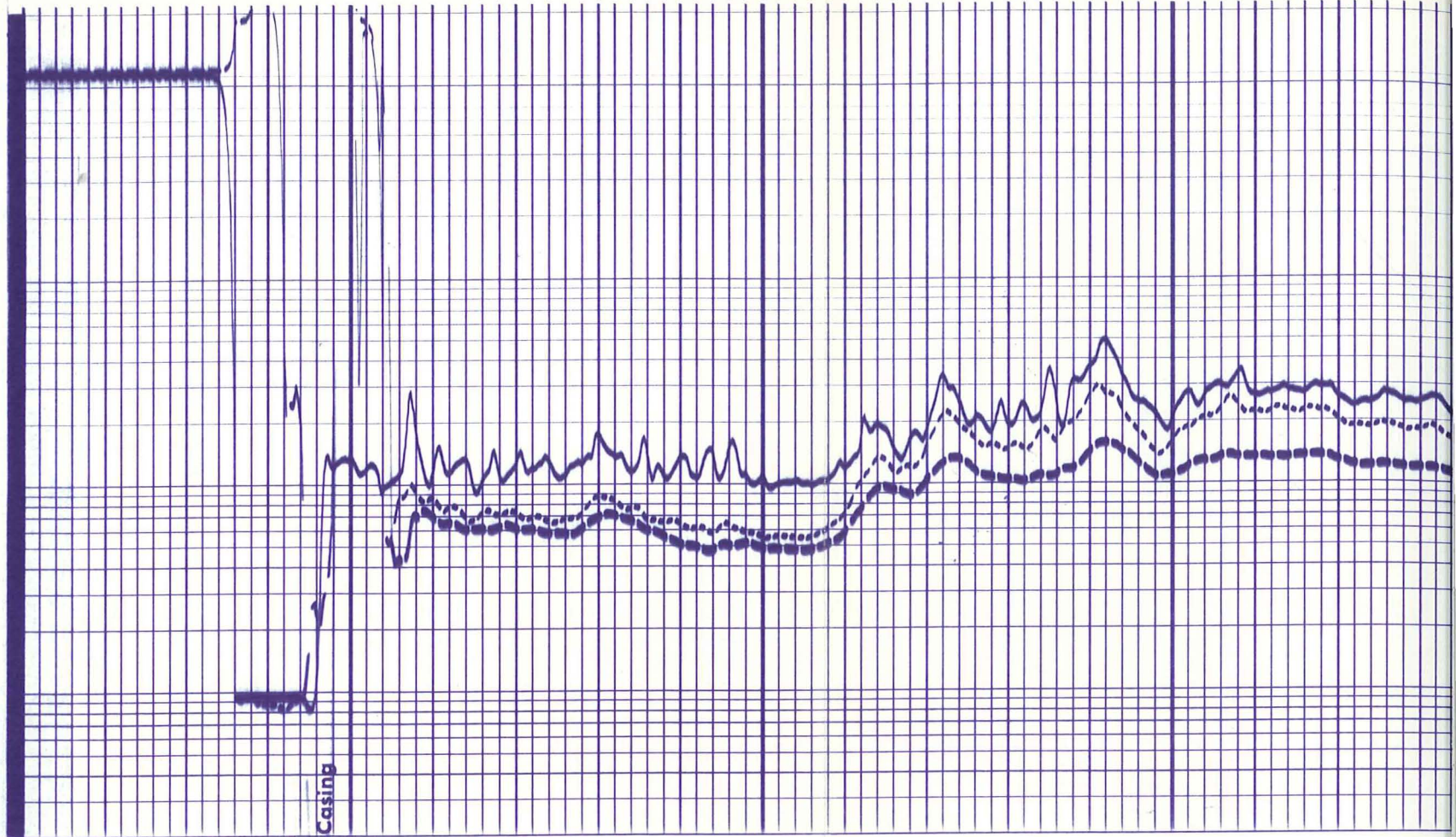
4100

4200

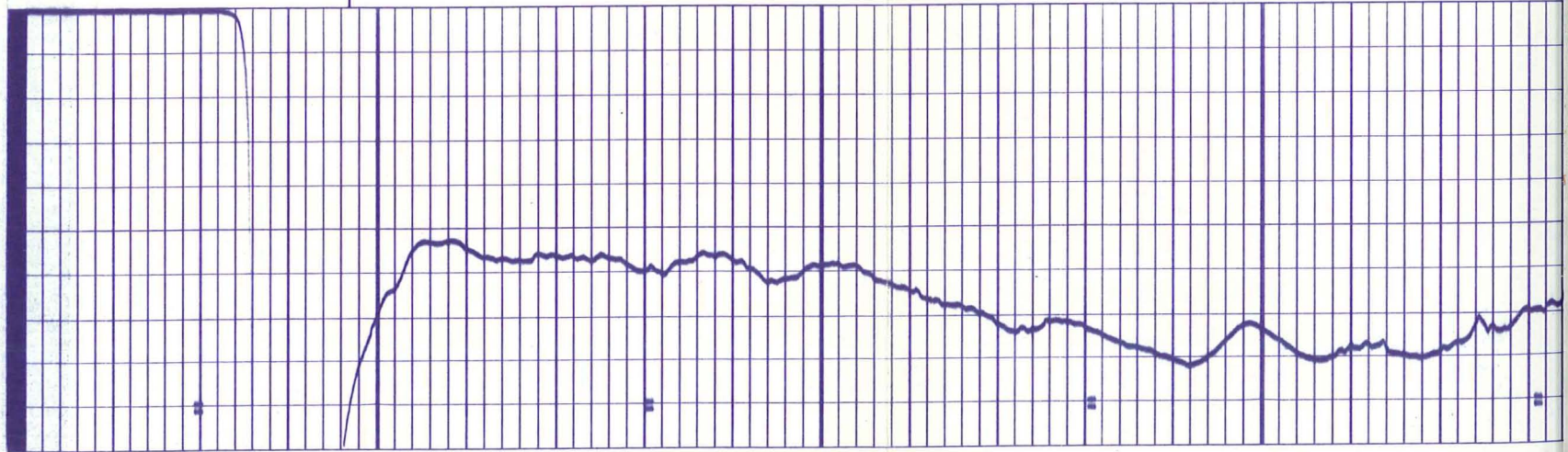
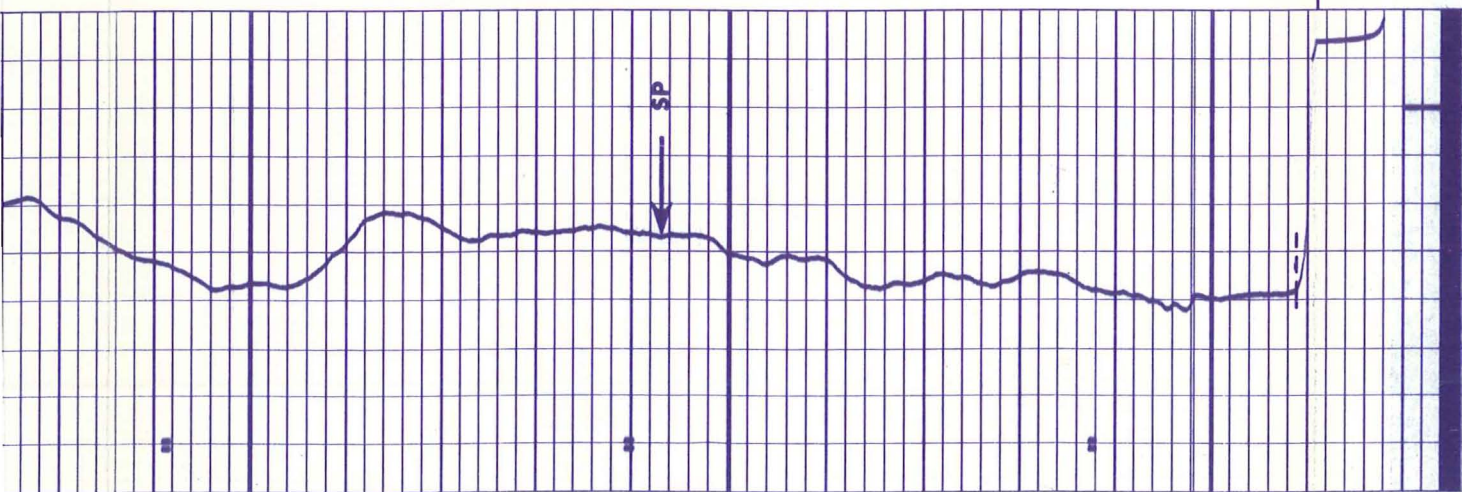
Run 2

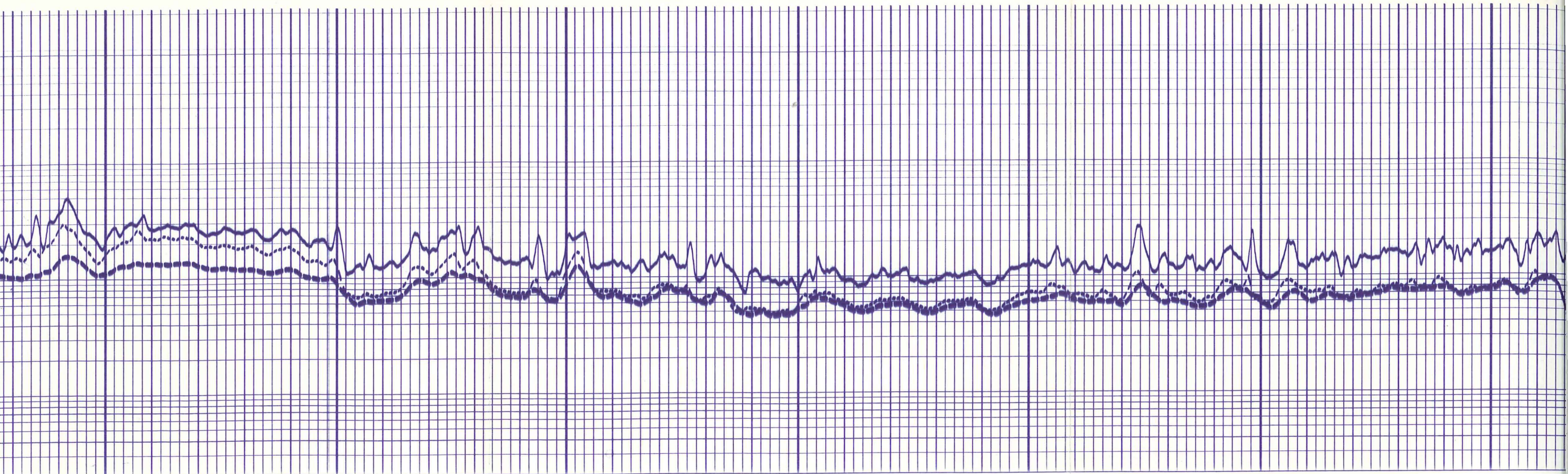


Run 3



4300

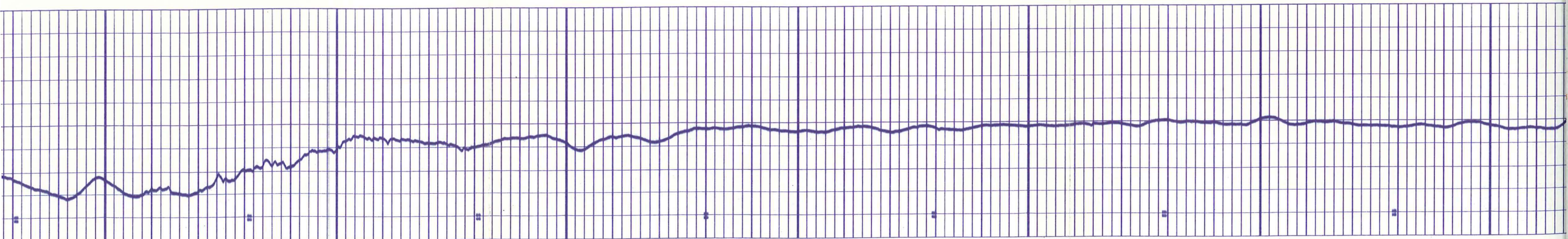


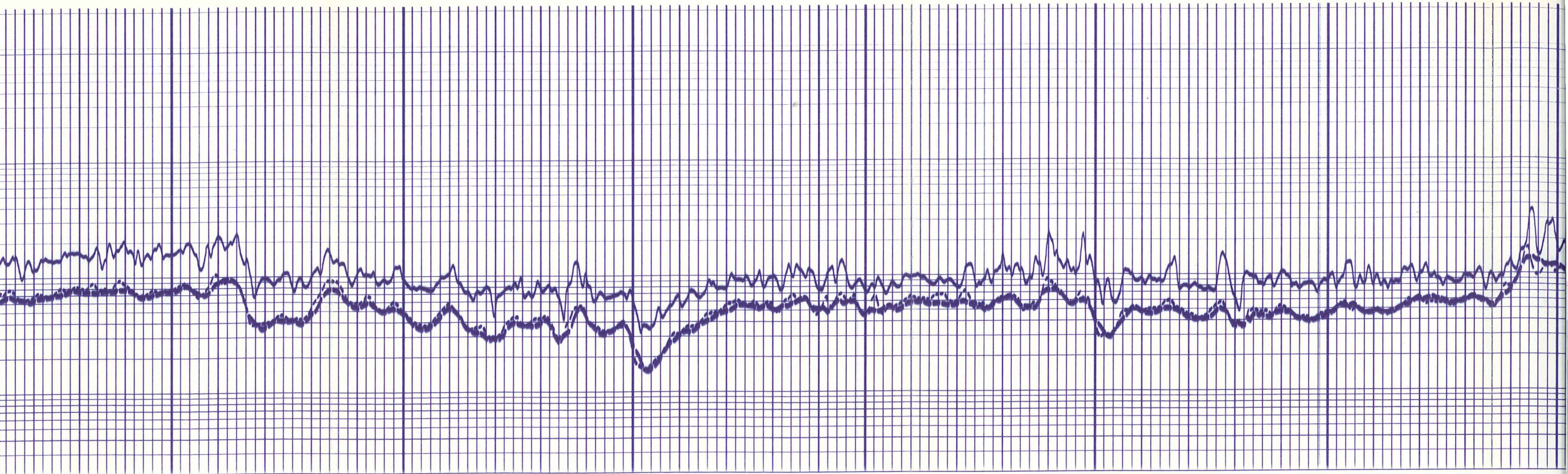


4400

4500

4600

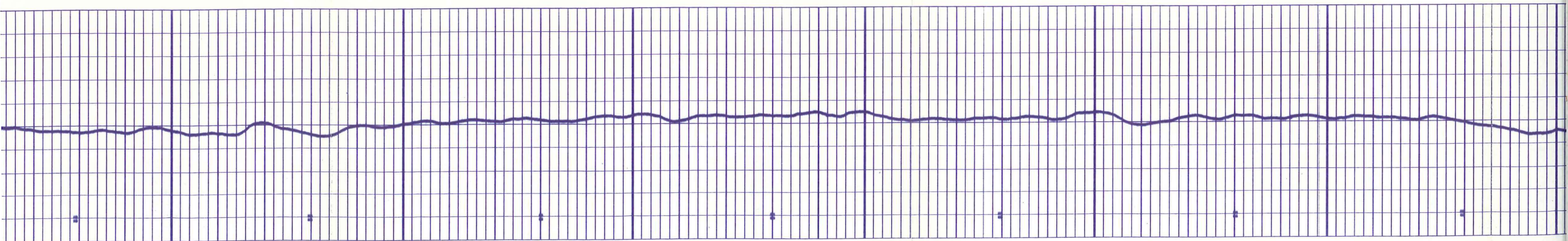


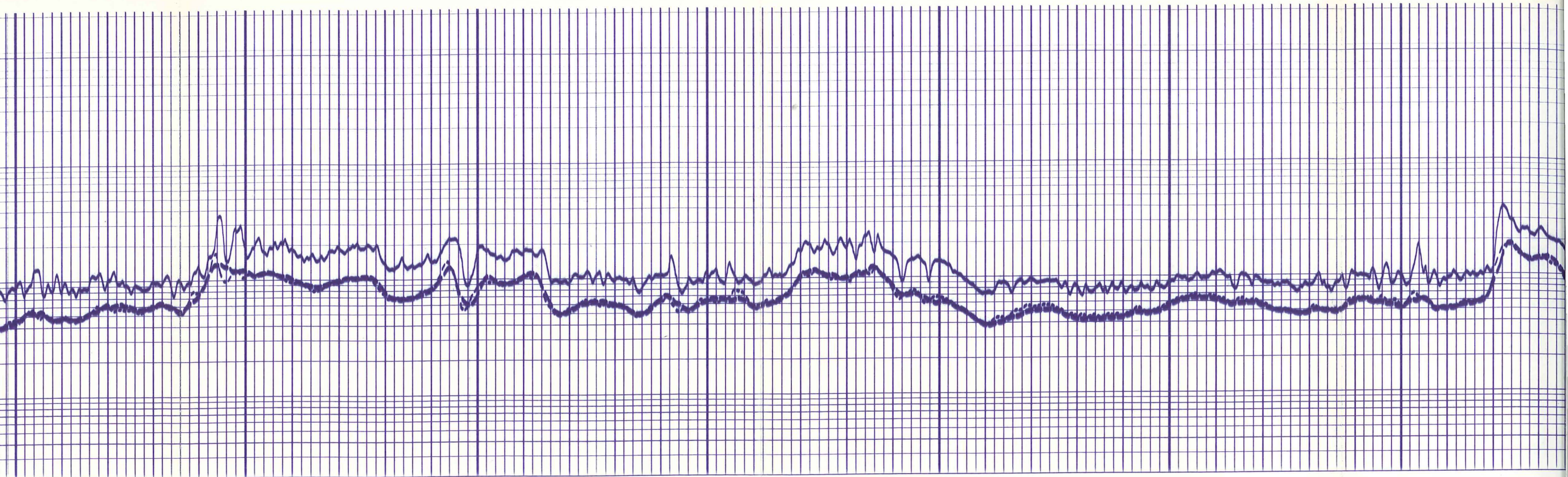


4700

4800

4900





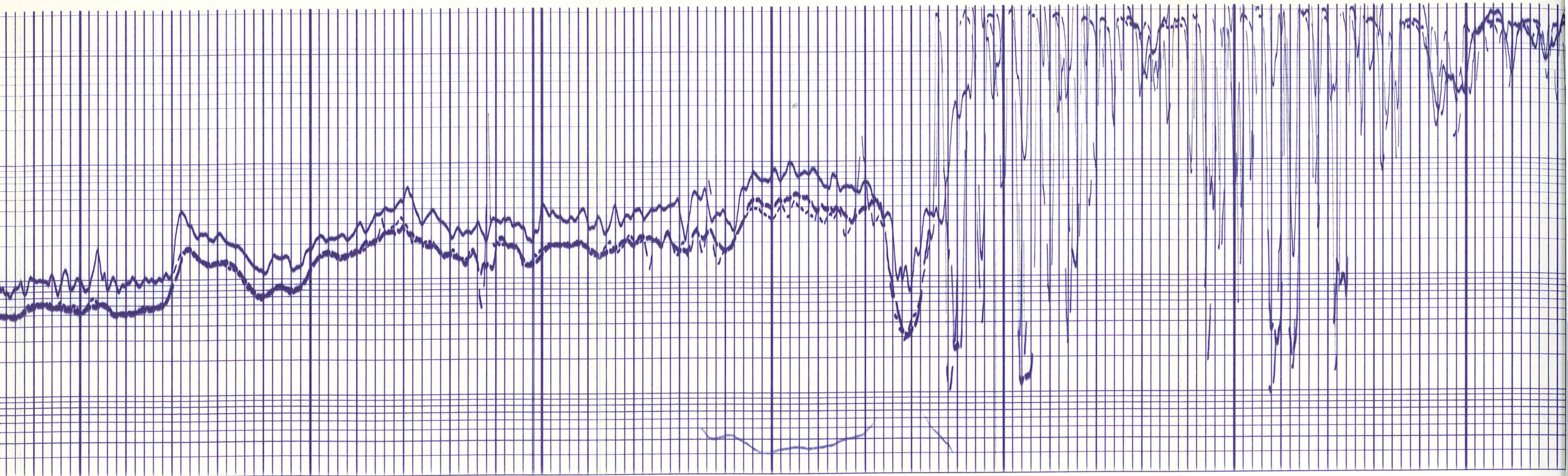
900

5000

5100

5200



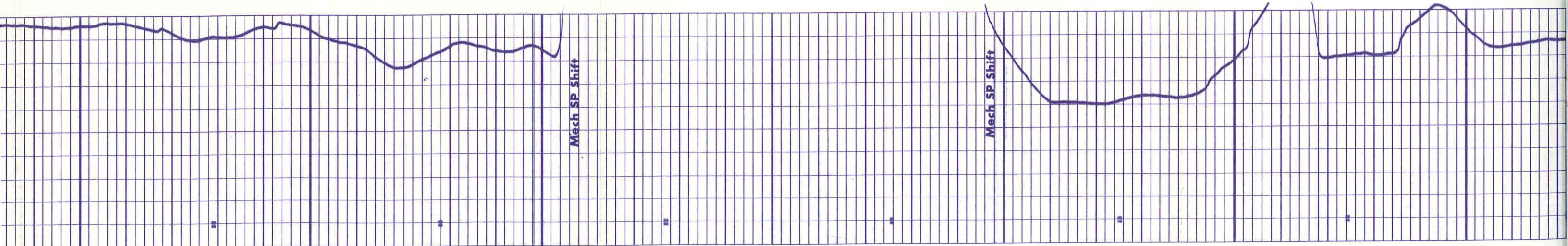


5200

5300

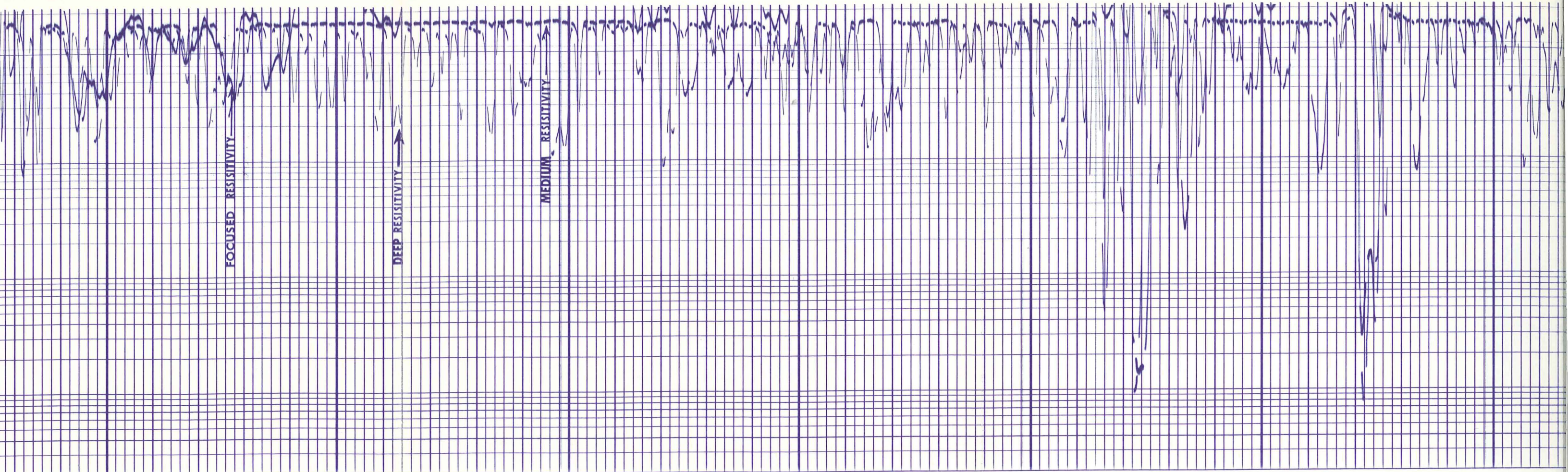
5400

5500



Mech SP Shift

Mech SP Shift



FOCUSED RESISTIVITY

DEEP RESISTIVITY

MEDIUM RESISTIVITY

5500

5600

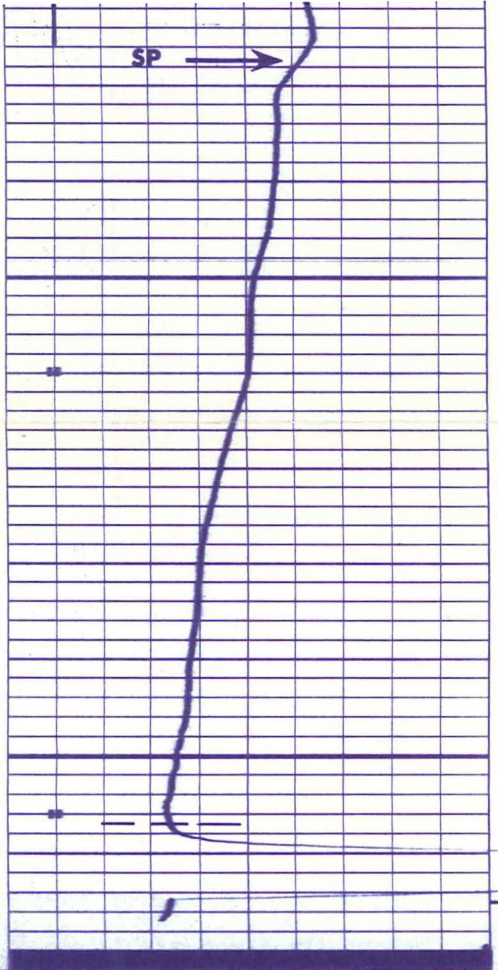
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5800

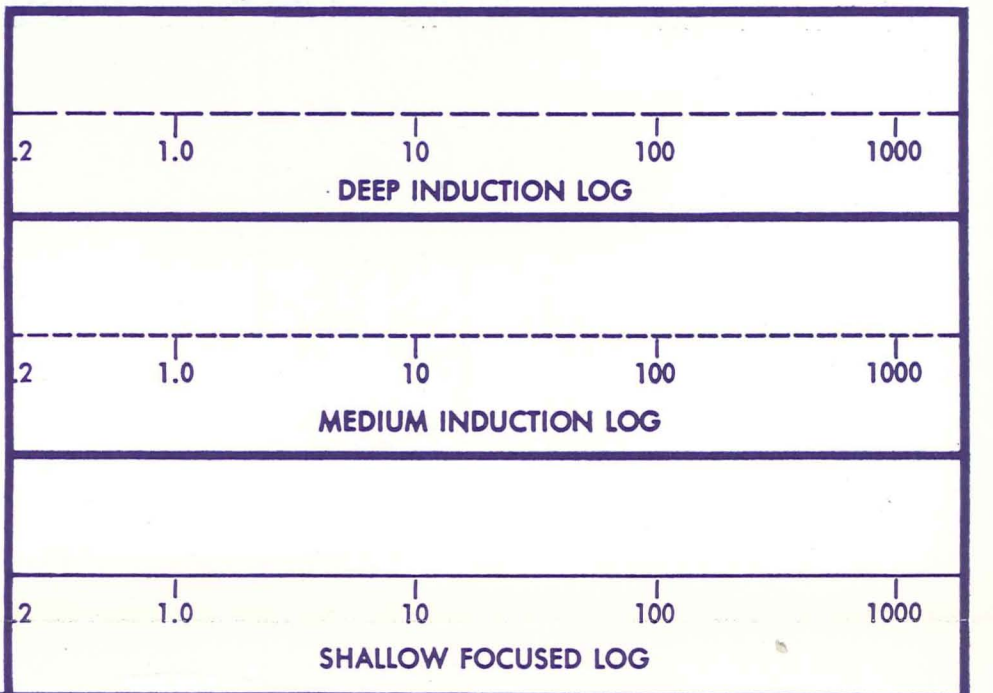
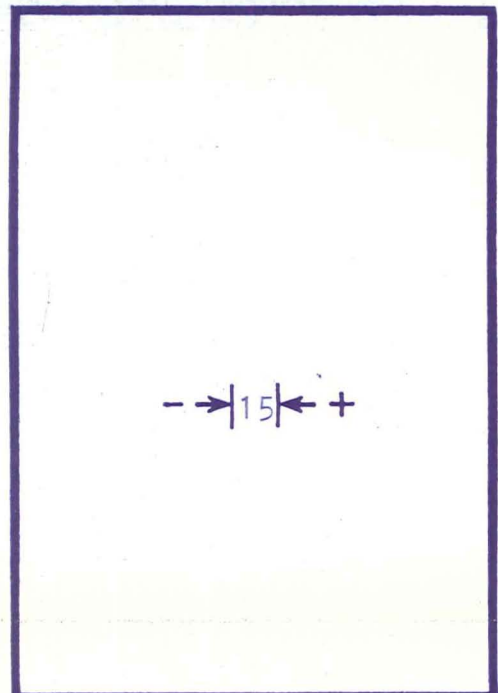
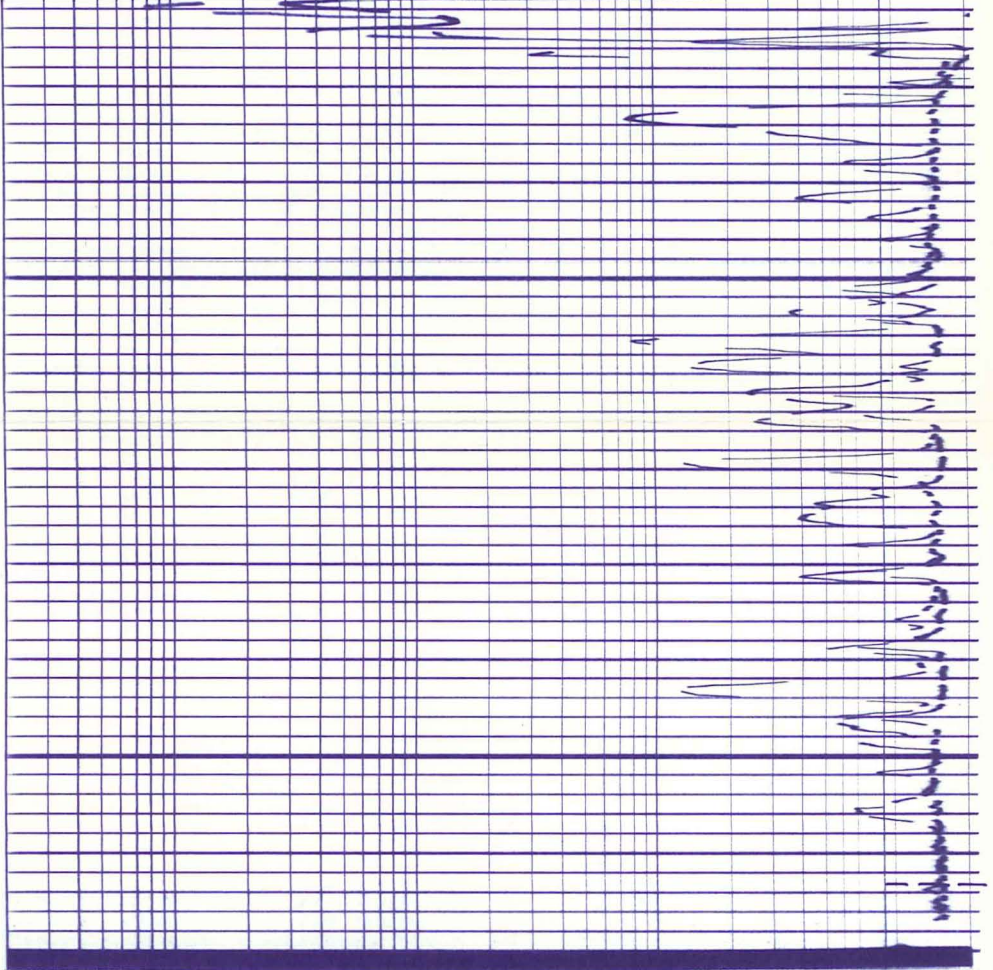


SP

One Minute

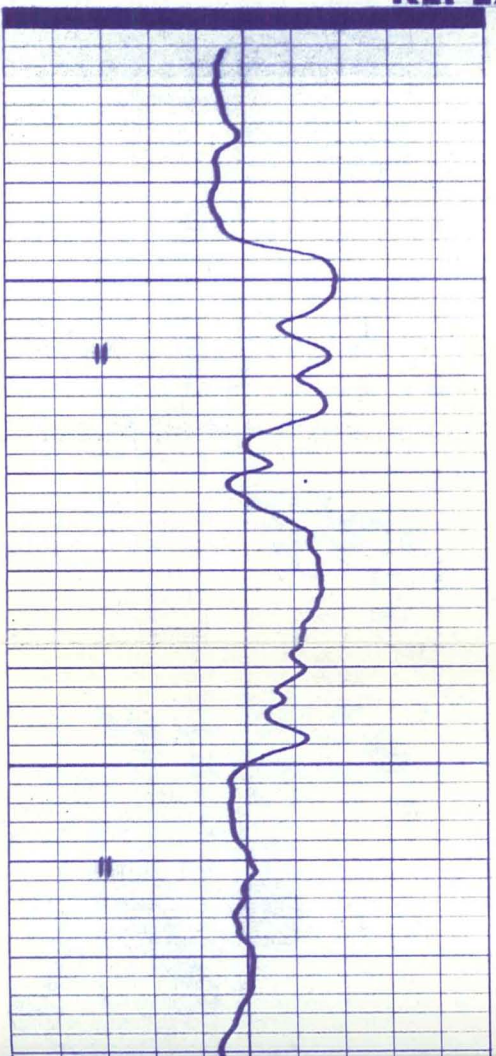


5800

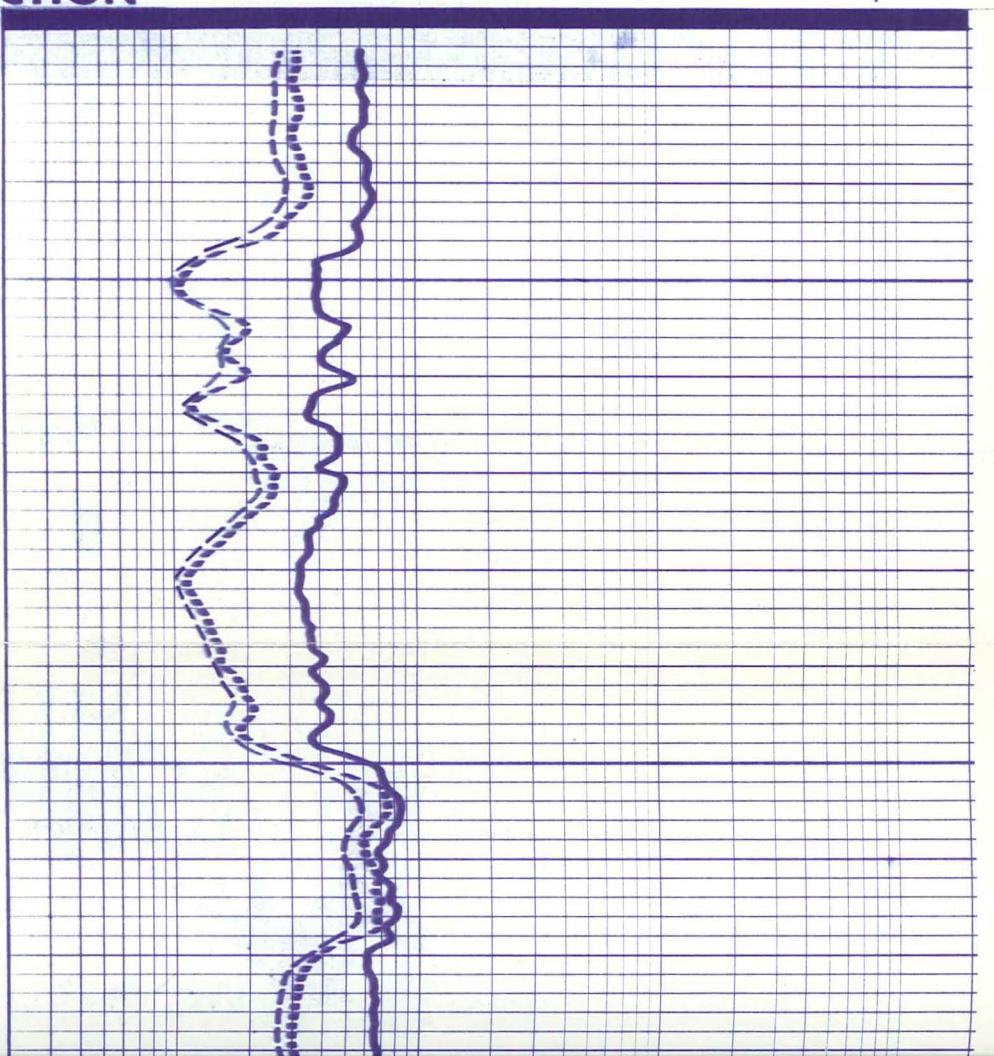


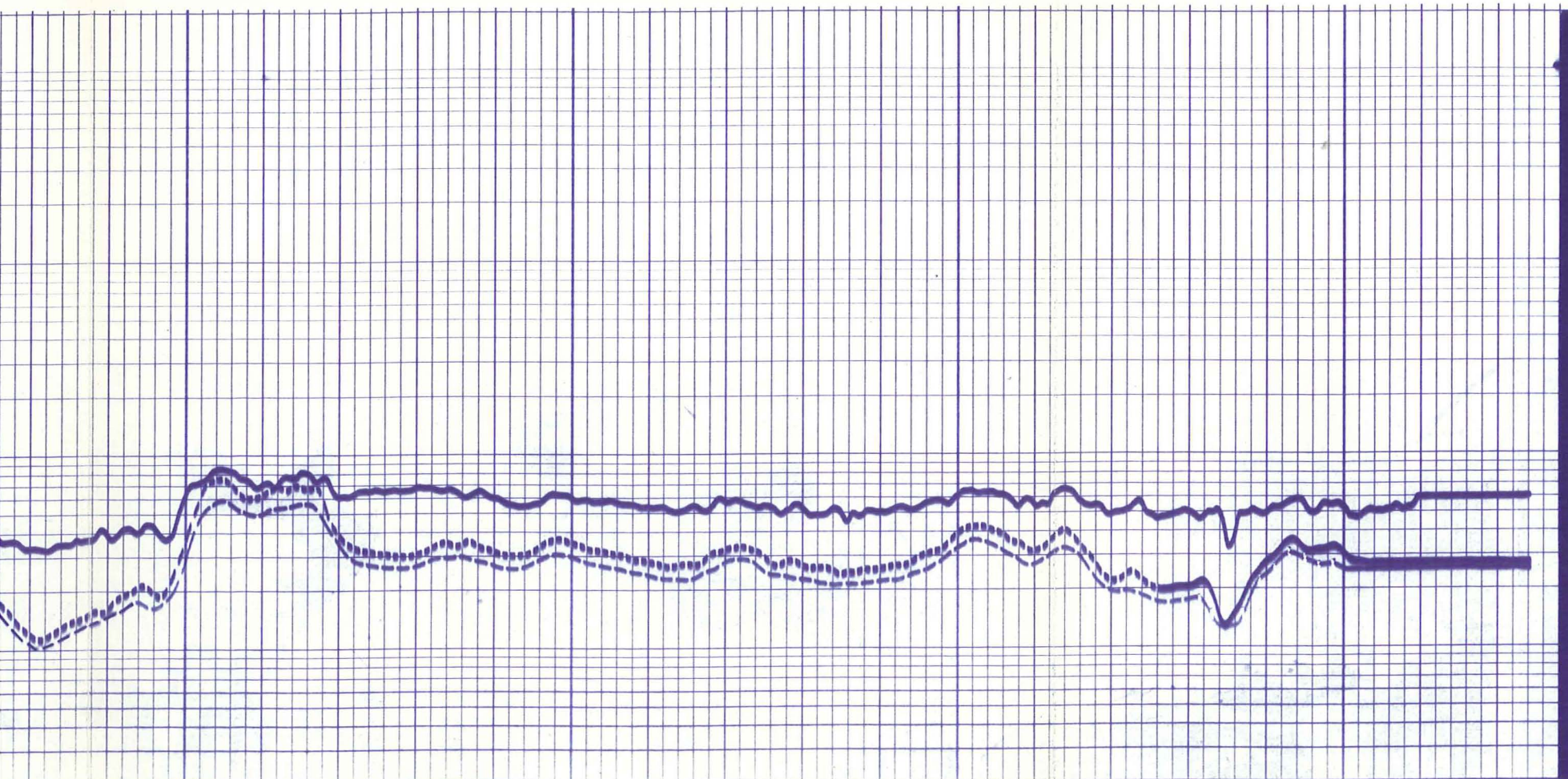
SPONTANEOUS POTENTIAL Millivolts	DEPTH	RESISTIVITY ohms - m ² /m
Company	AERO JET NUCLEAR INEL	Drillers T.D. 5868
Well	RRGE #3	Log F.R. 5863
Field	RAFT RIVER GEOTHERMAL	Log T.D. 5865
County	CASSIA	Elevations:
State	IDAHO	K.B. 4878 D.F. 4876 G.L. 4860

REPEAT SECTION



1200





1300

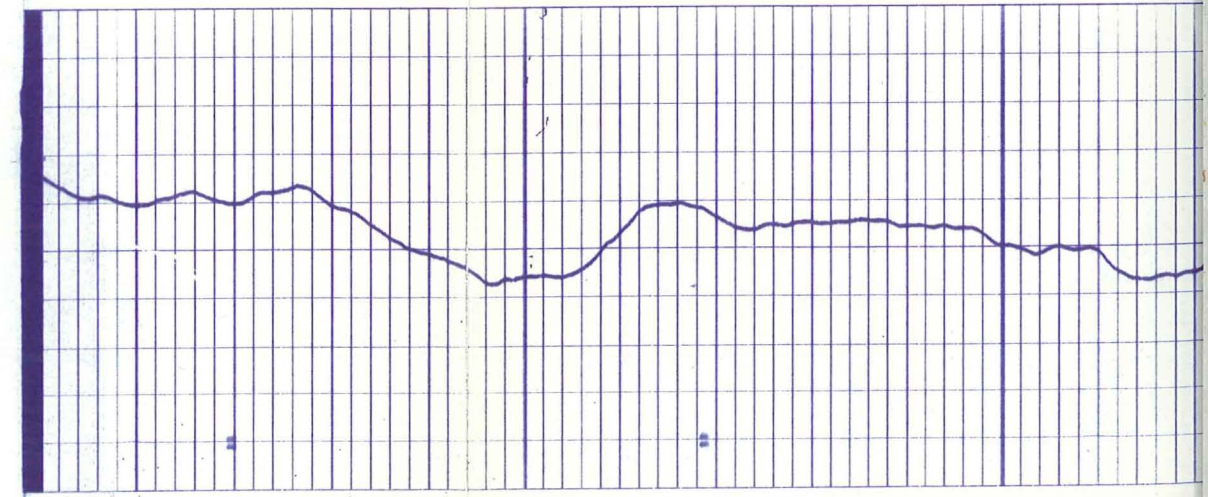
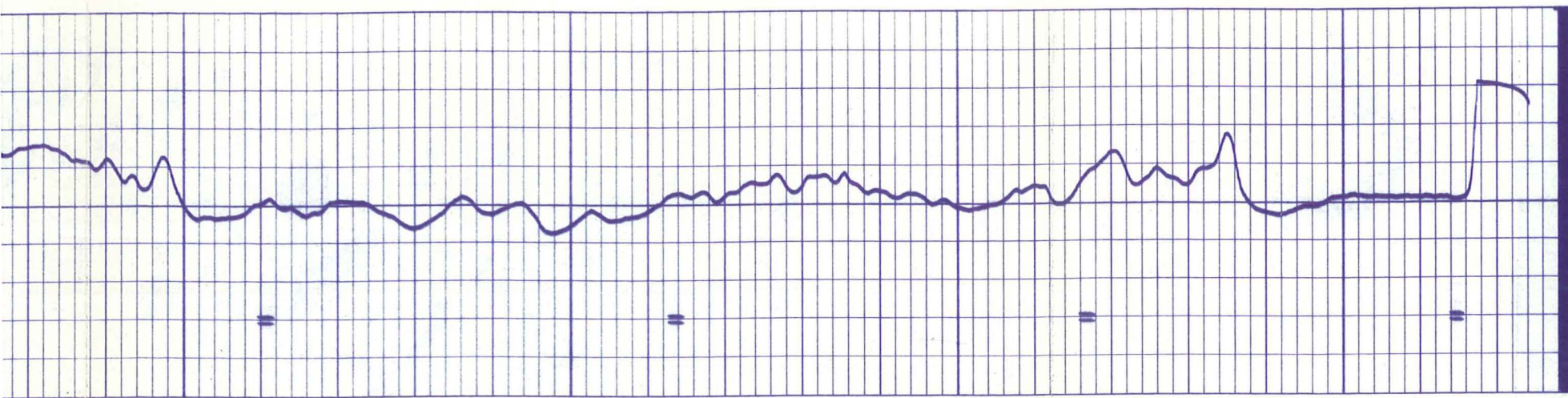
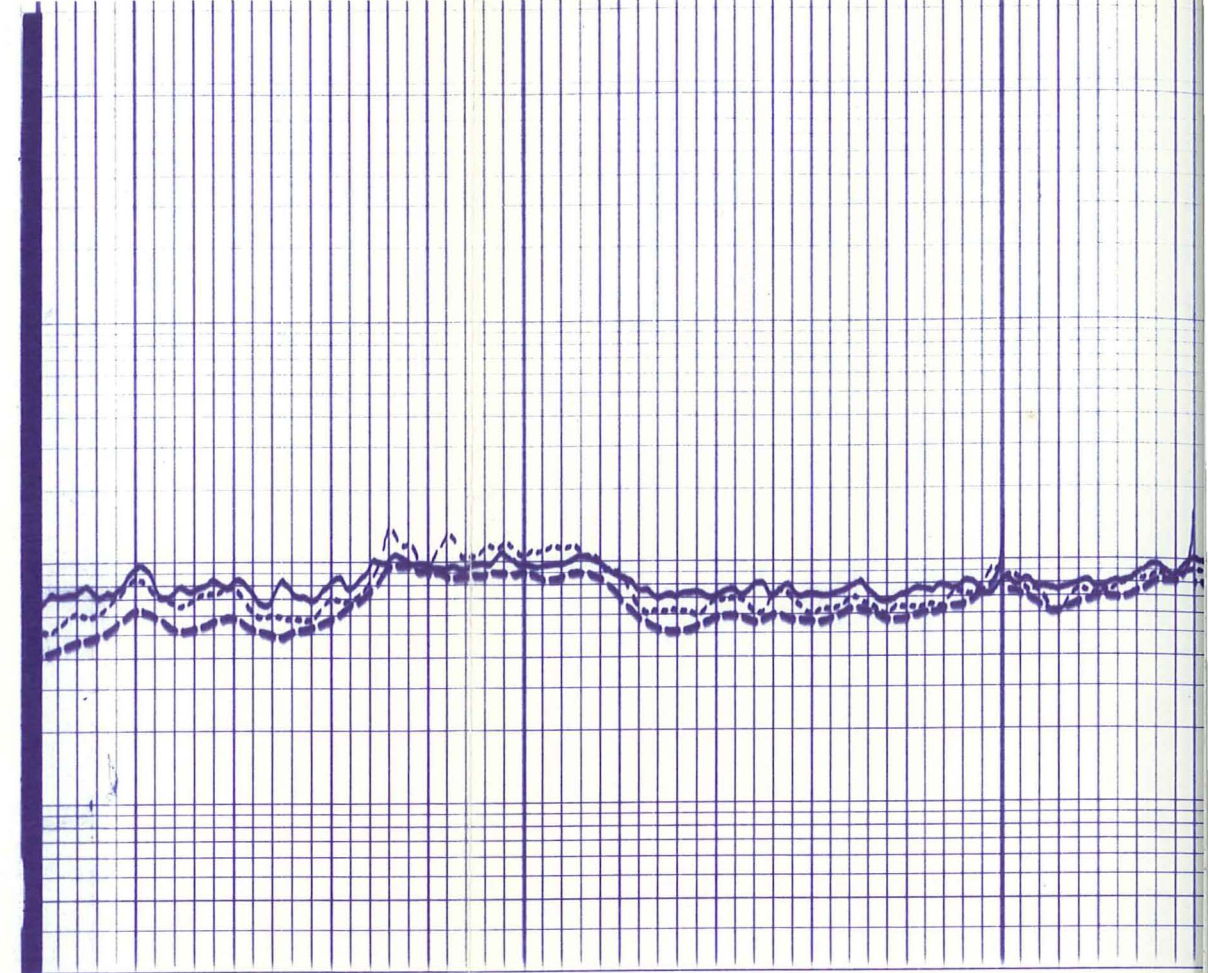
1400

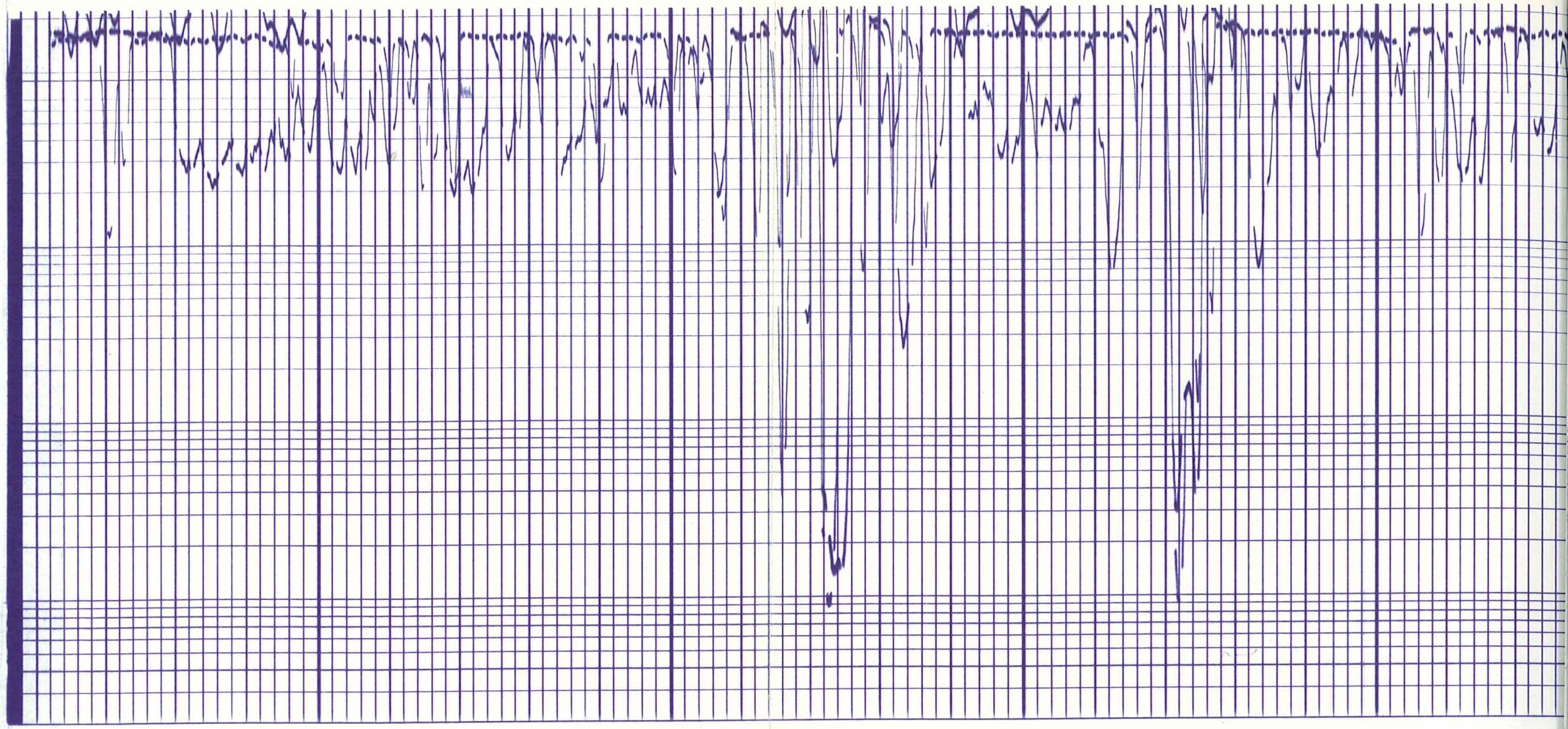
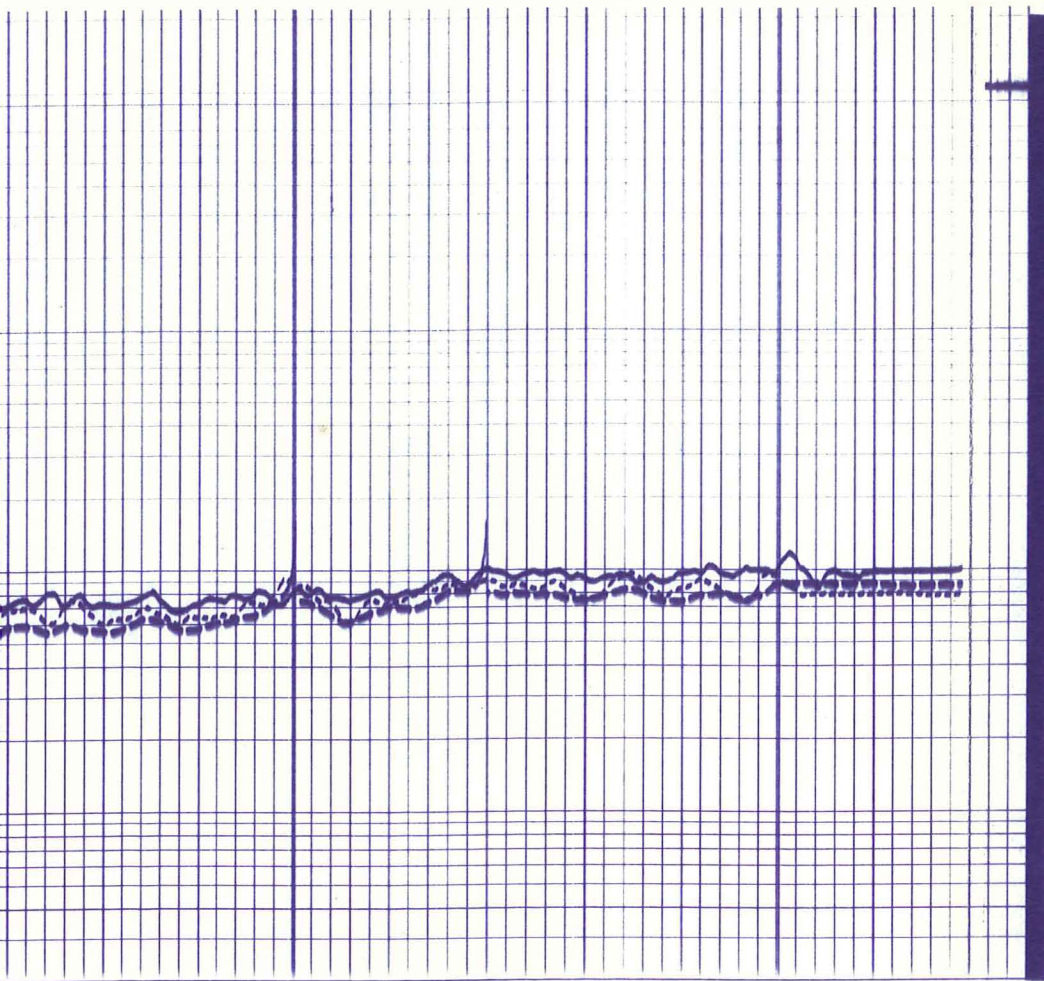
Run 1



Run 2

1400





4200

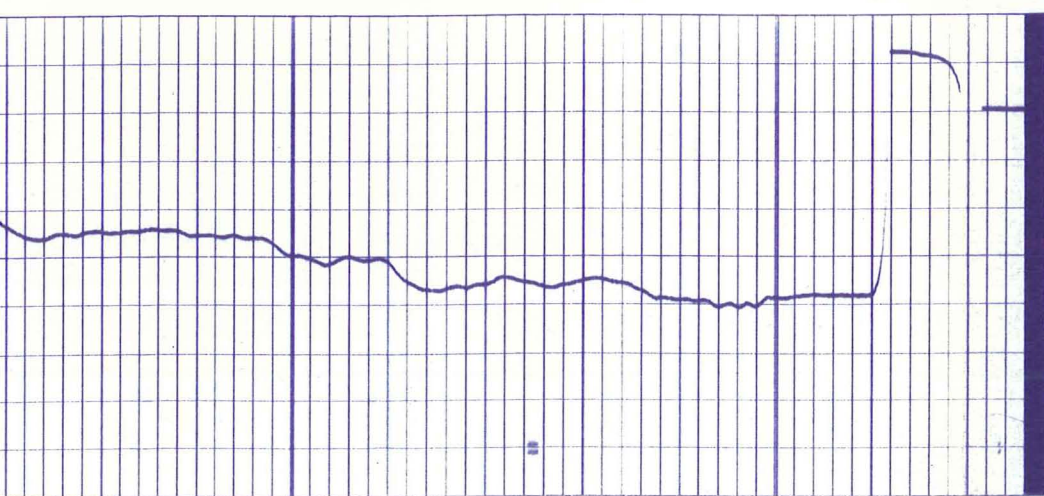
Run 2



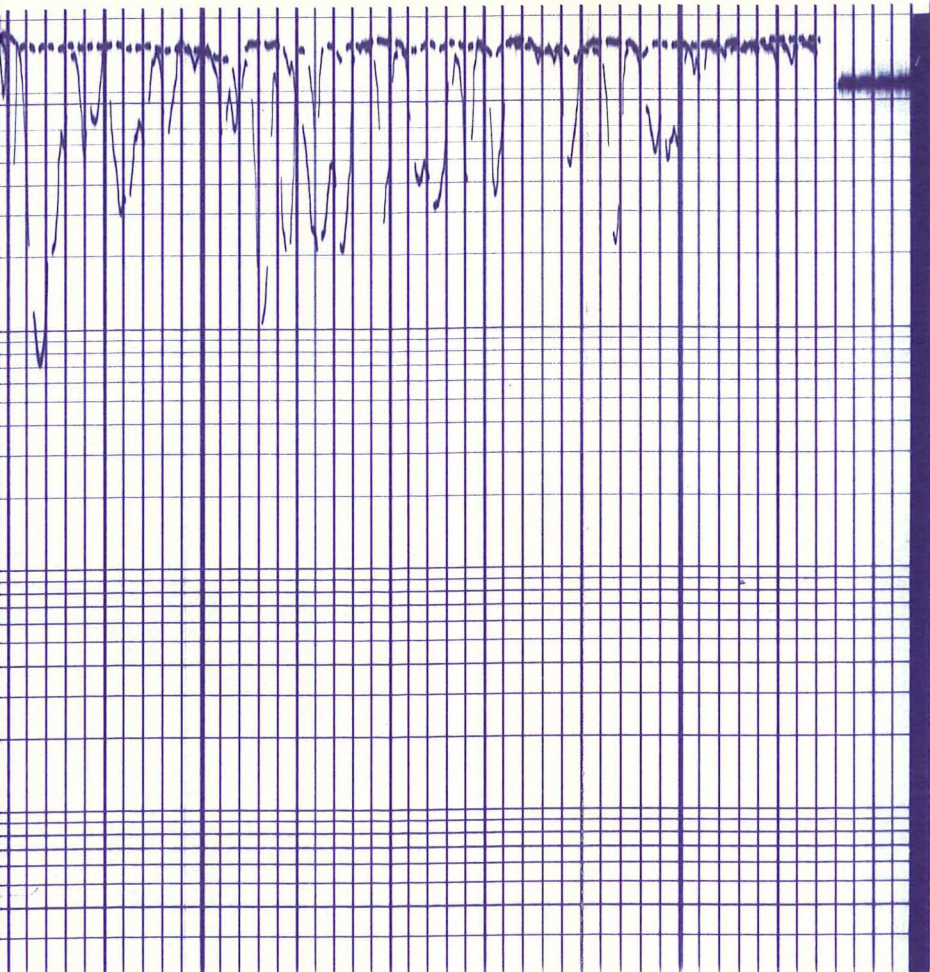
Run 3

5700

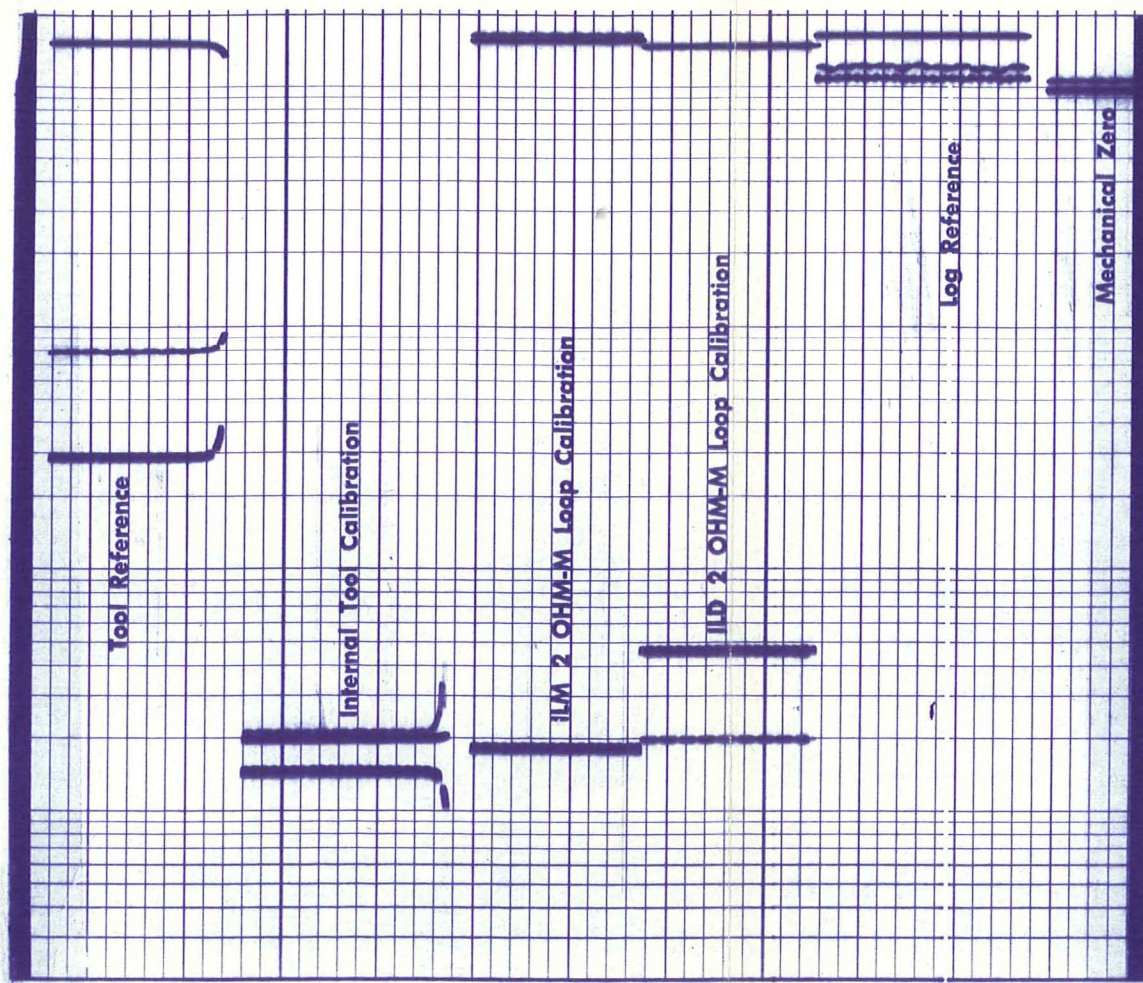
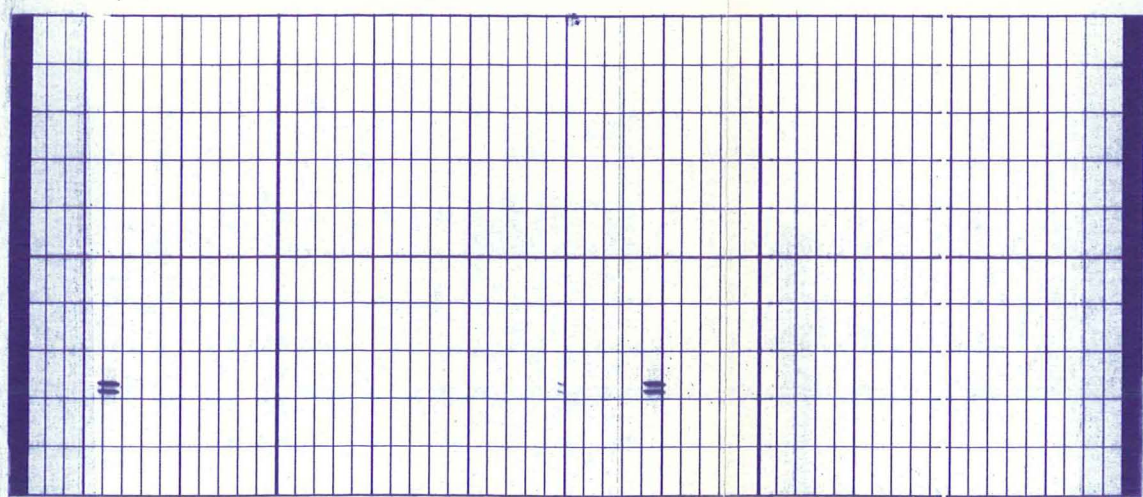
5800



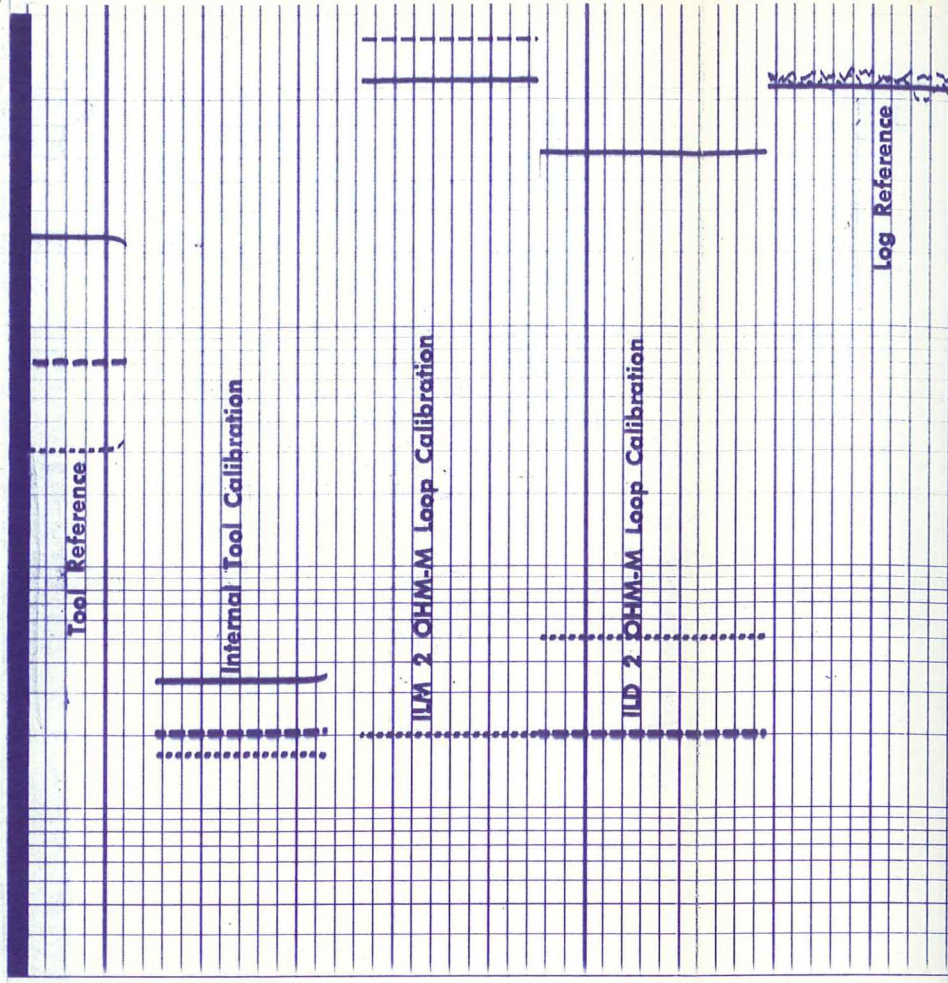
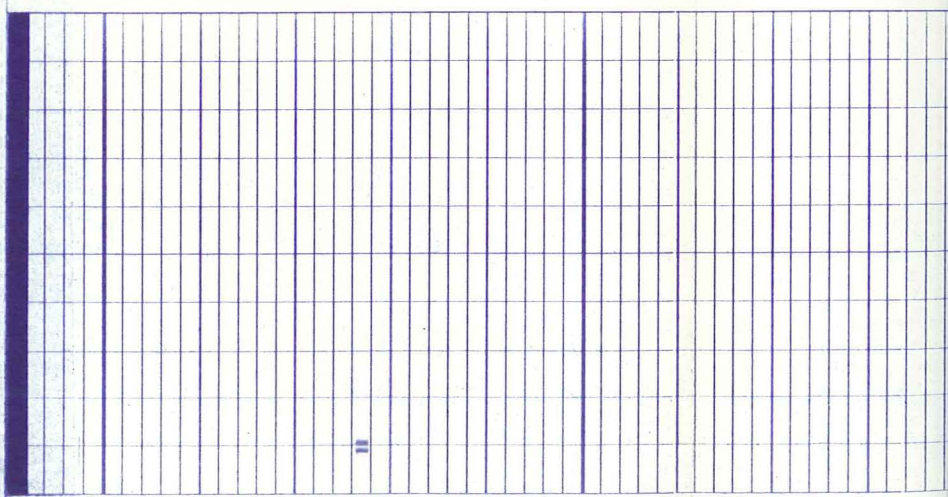
5800

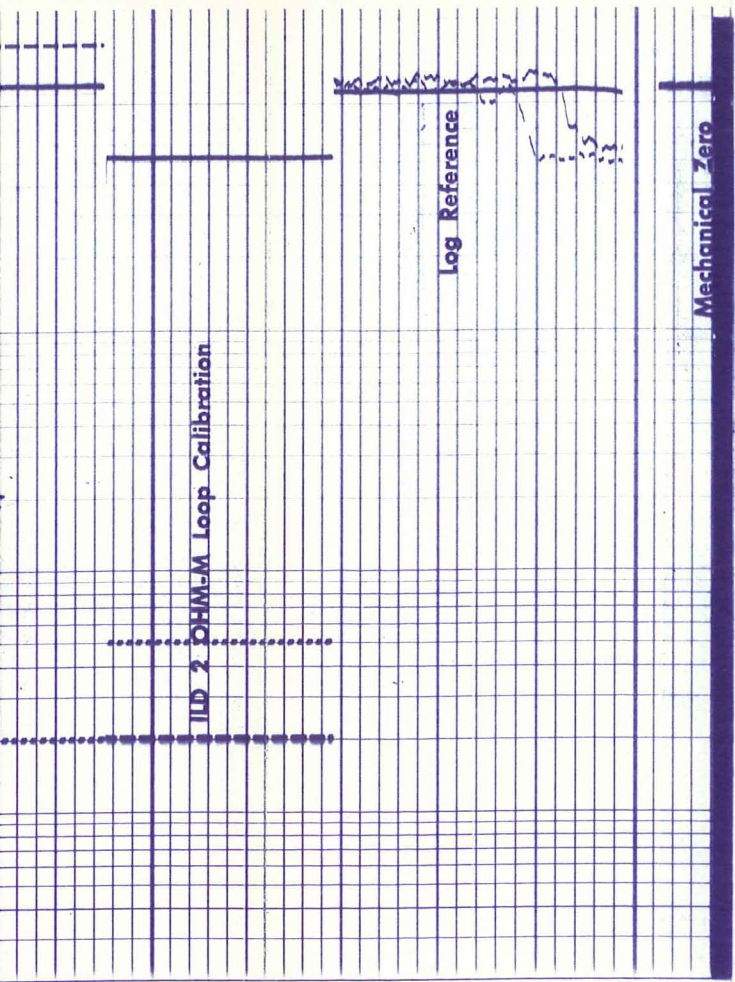


SURFACE CALIBRATION

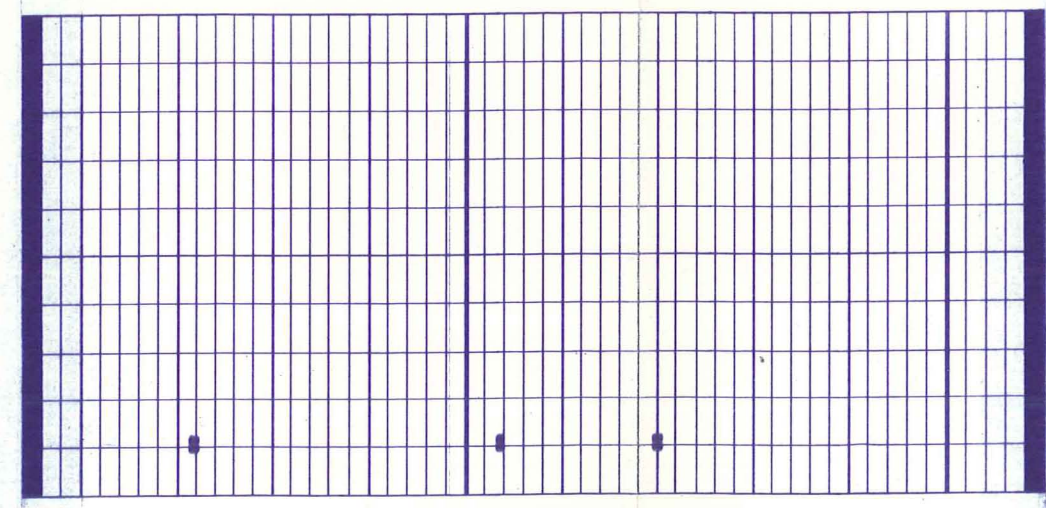
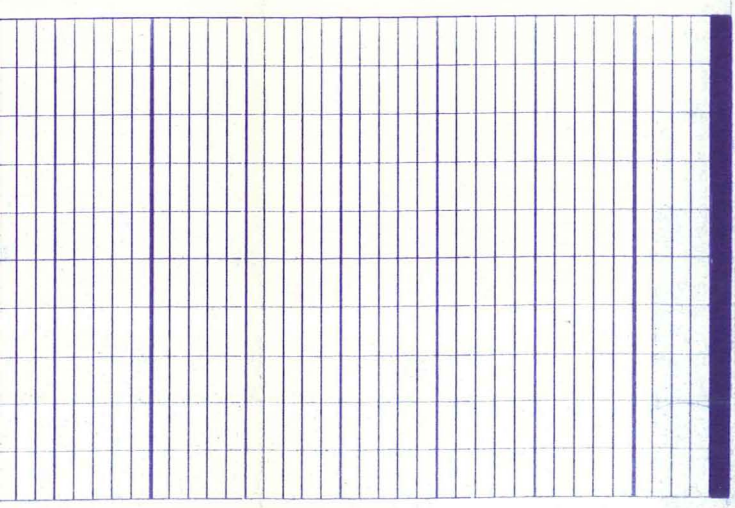
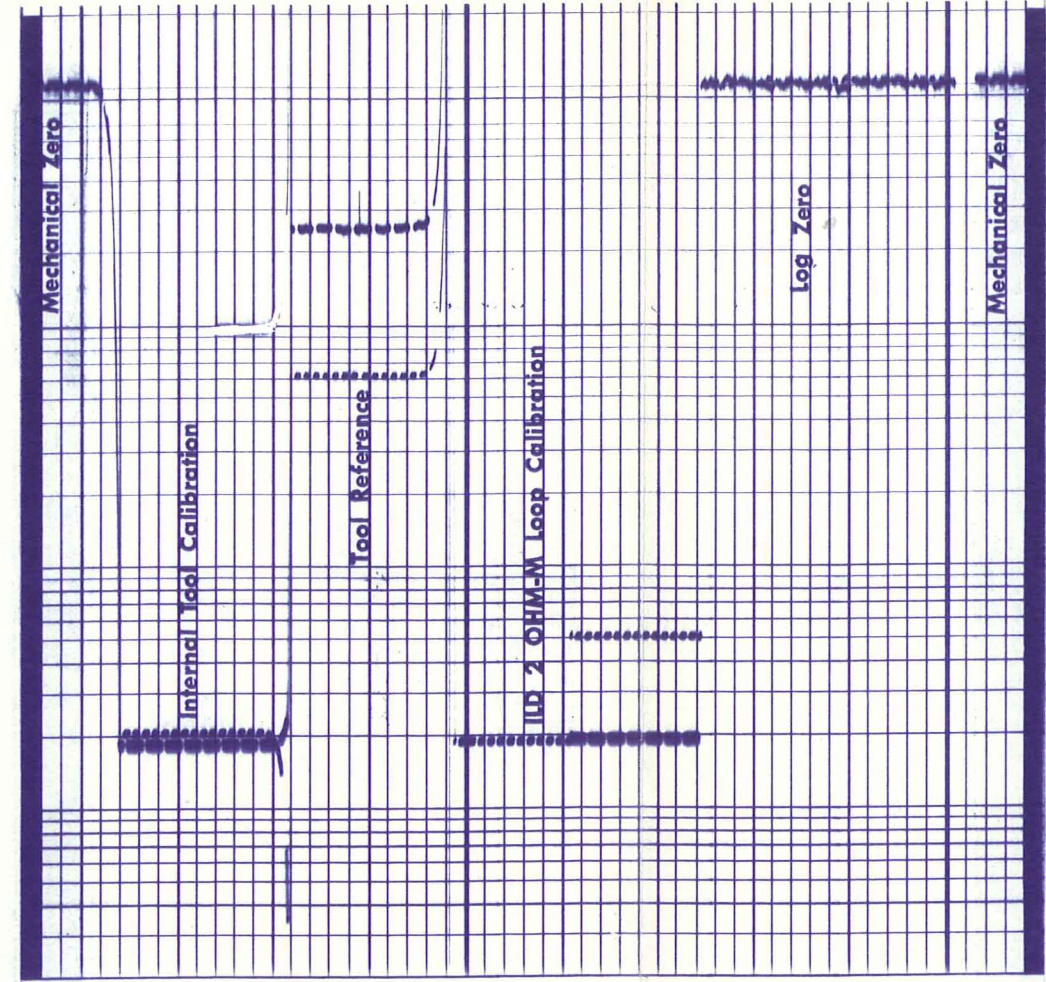


Run 1 ← | → Run 2

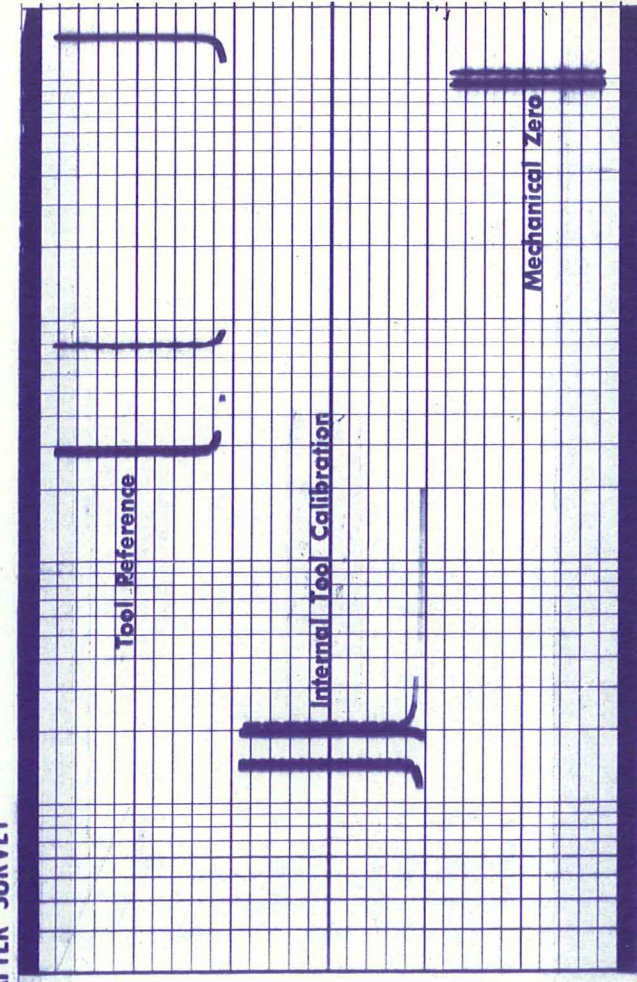




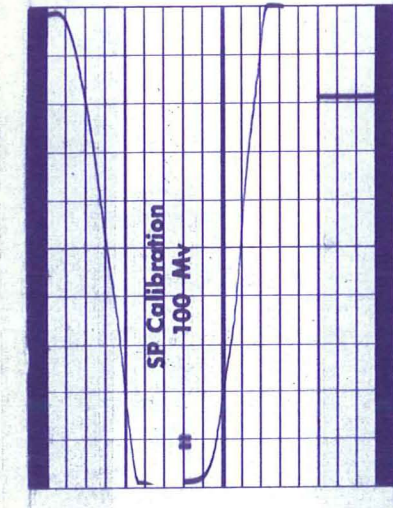
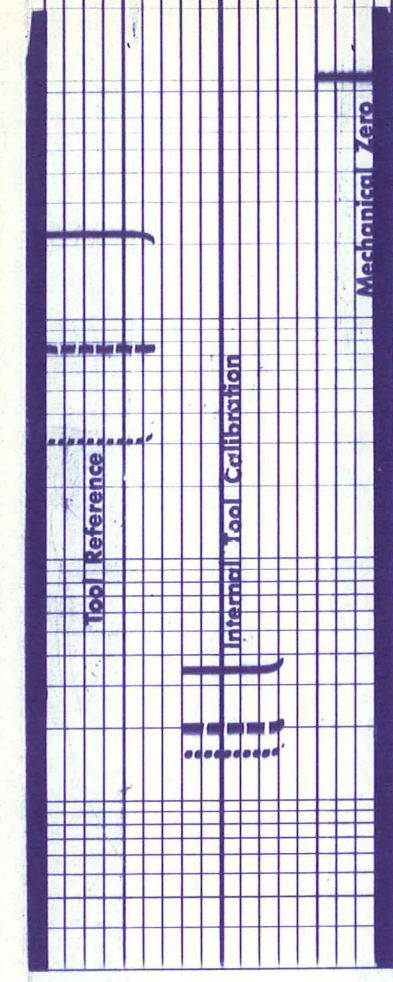
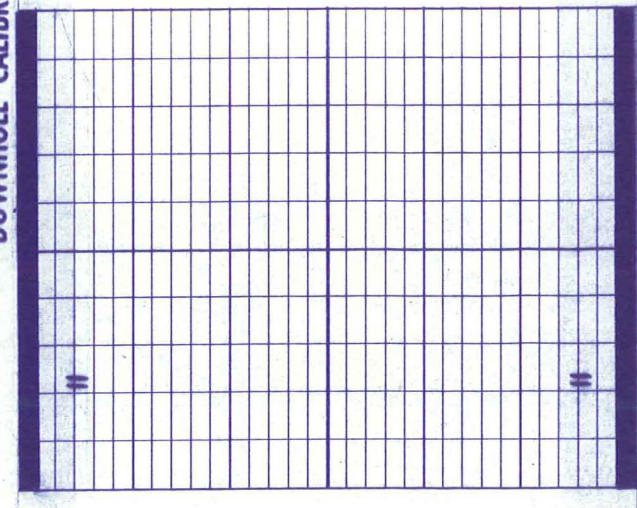
Run 2 ← → Run 3

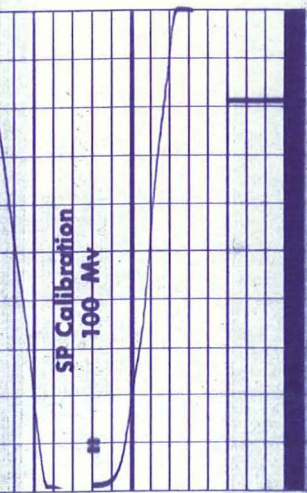


DOWNHOLE CALIBRATION—AFTER SURVEY

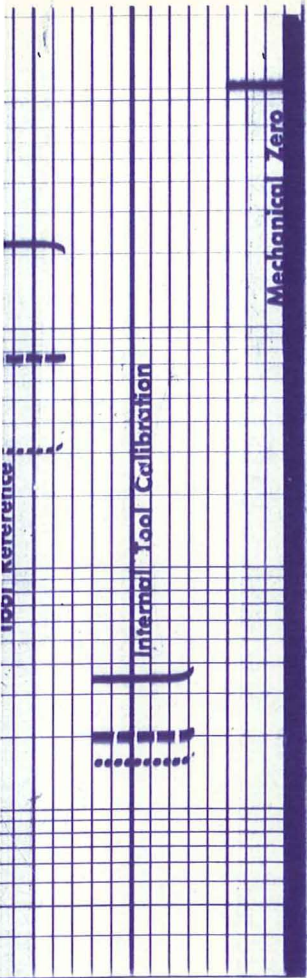


Run 1 ← → Run 2

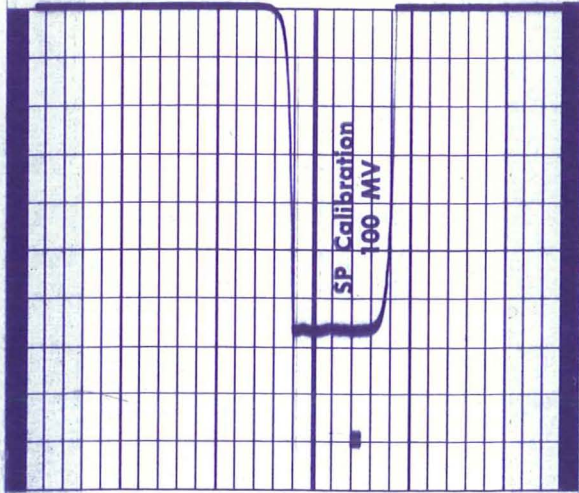




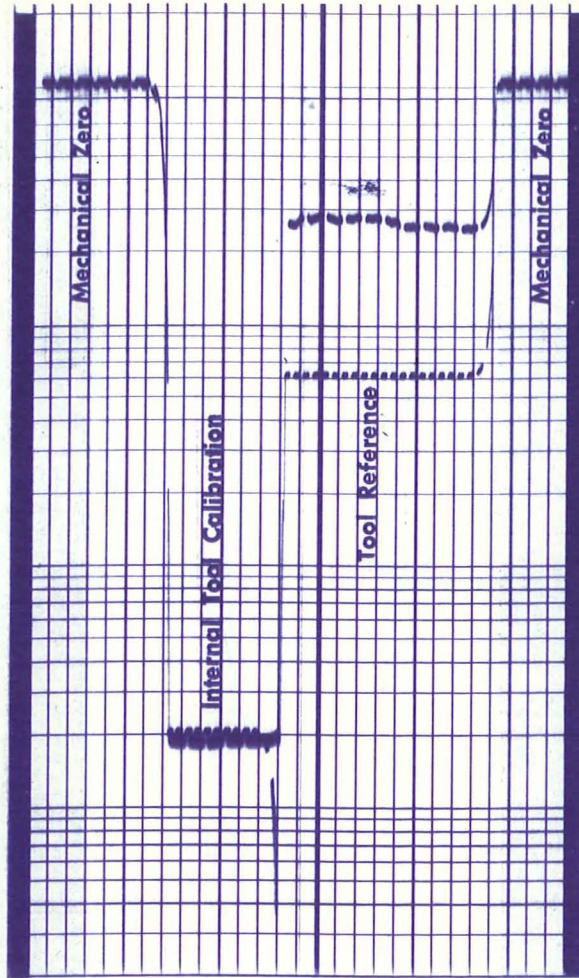
Run 2



Mechanical Zero



Run 3

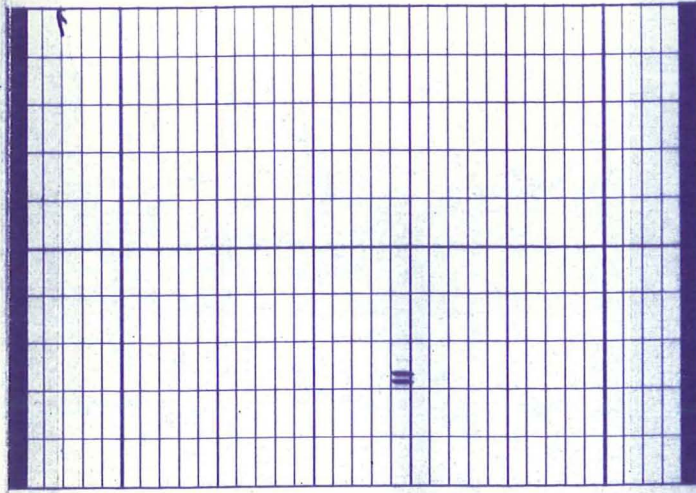


Tool Reference

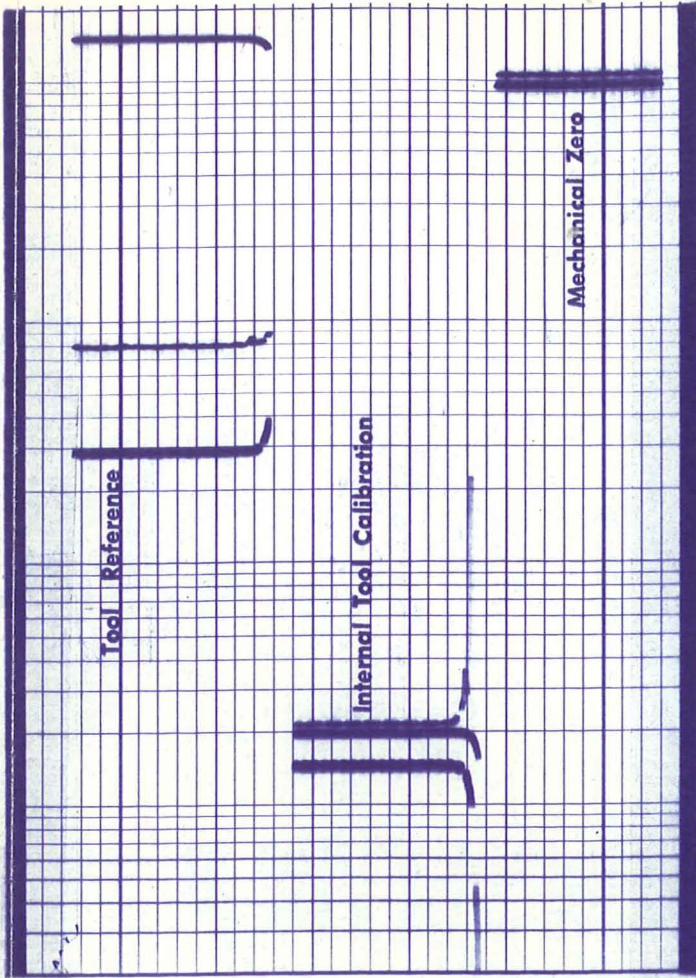
Mechanical Zero

Mechanical Zero

DOWNHOLE CALIBRATION—BEFORE SURVEY

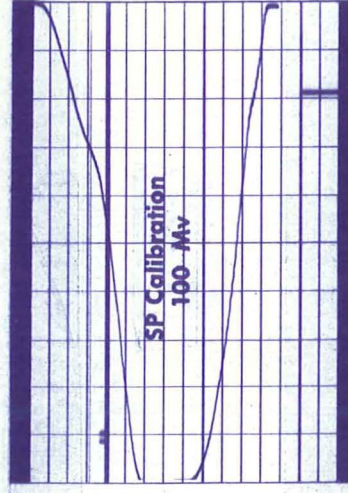


Run 1

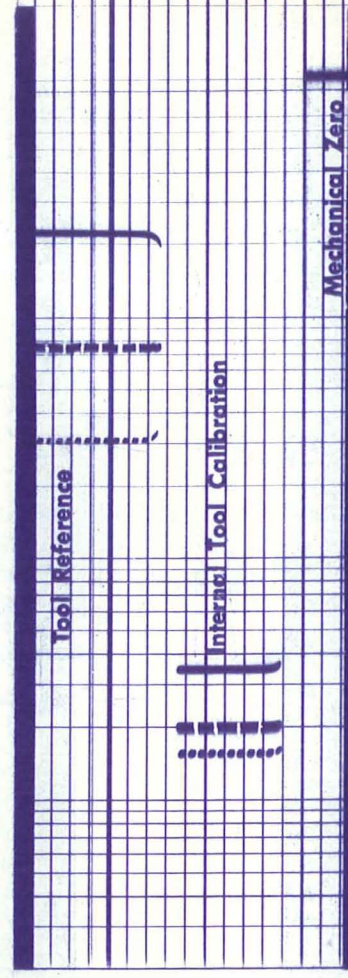


Tool Reference

Mechanical Zero

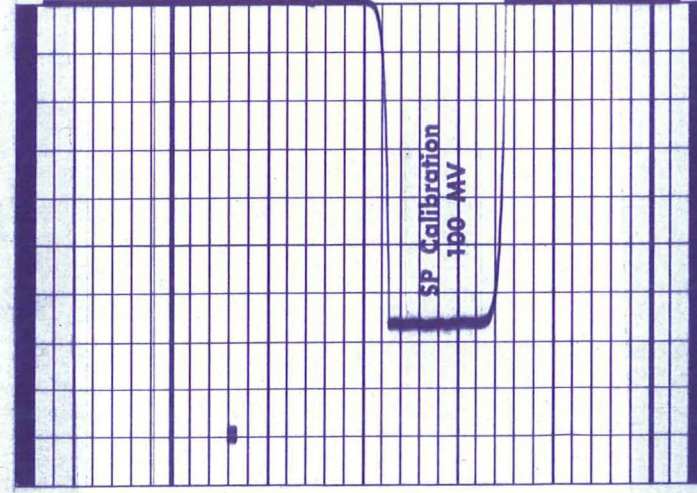


Run 2

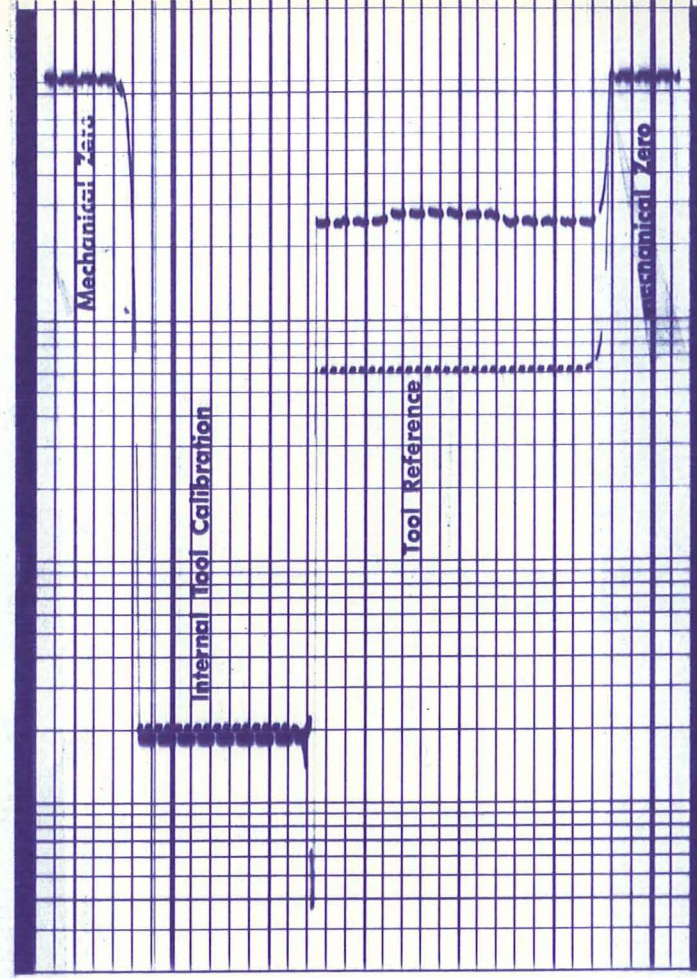


Tool Reference

Mechanical Zero



Run 3



Tool Reference

Mechanical Zero

Mechanical Zero