19-192

CONFIDENTIAL

SCHLUMBERGER

BOREHOLE COMPENSATED SONIC LOG (WITH CALIPER)

COUNTY
FIELD or LOCATION
WELL
COMPANY

COMPANY SHELL OIL CO

WELL SHELL GRAYS HARBOR CO. 1-35

FIELD OCEAN CITY AREA

COUNTY GRAYS HARBOR STATE WASH

LOCATION NW/4 SW/4

Sec. 35 Twp. 19N Rge. 12W

Other Services:
I-ES, FDC-GR
NPT, CST

Permanent Datum: GL, Elev. 59.60
Log Measured From KB, 12.00 Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 71.60
D.F.
G.L. 59.60

Date	7-28-70			
Run No.	ONE			
Depth—Driller	2527			
Depth—Logger	2528			
Btm. Log Interval	2527			
Top Log Interval	1036			
Casing—Driller	9 5/8 @ 1037	@	@	@
Casing—Logger	1036			
Bit Size	8 3/4			
Type Fluid in Hole	LIME BASE			
Dens. / Visc.	110 / 54			
pH / Fluid Loss	13.7 / 6.0 ml	ml	ml	ml
Source of Sample	CIRC.			
R_m @ Meas. Temp.	0.378 @ 75 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	0.31 @ 68 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.62 @ 65 °F	@ °F	@ °F	@ °F
Source: R_{mf} / R_{mc}	M / M			
R_m @ BHT	0.21 @ 94 °F	@ °F	@ °F	@ °F
Time Since Circ.	5 HR			
Max. Rec. Temp.	94 °F	°F	°F	°F
Equip. / Location	3716 / SAC			
Recorded By	WHITE			
Witnessed By	PRINZ			

SWS-1384-C

FOLD HERE

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

REMARKS

Changes in Mud Type or Additional Samples

Date	Sample No.		
Depth—Driller			
Type Fluid in Hole			
Dens. / Visc.			
ph / Fluid Loss		ml	
Source of Sample			
R_m @ Meas. Temp.	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	@ °F	@ °F	@ °F
Source: R_{mf} / R_{mc}			
R_m @ BHT	@ °F	@ °F	@ °F
R_{mf} @ BHT	@ °F	@ °F	@ °F
R_{mc} @ BHT	@ °F	@ °F	@ °F

Scale Changes

Type Log	Depth	Scale Up Hole	Scale Down Hole

Equipment Data

Run No.	Tool Type	Tool Position	Other
ONE	BHC	CENTERED	

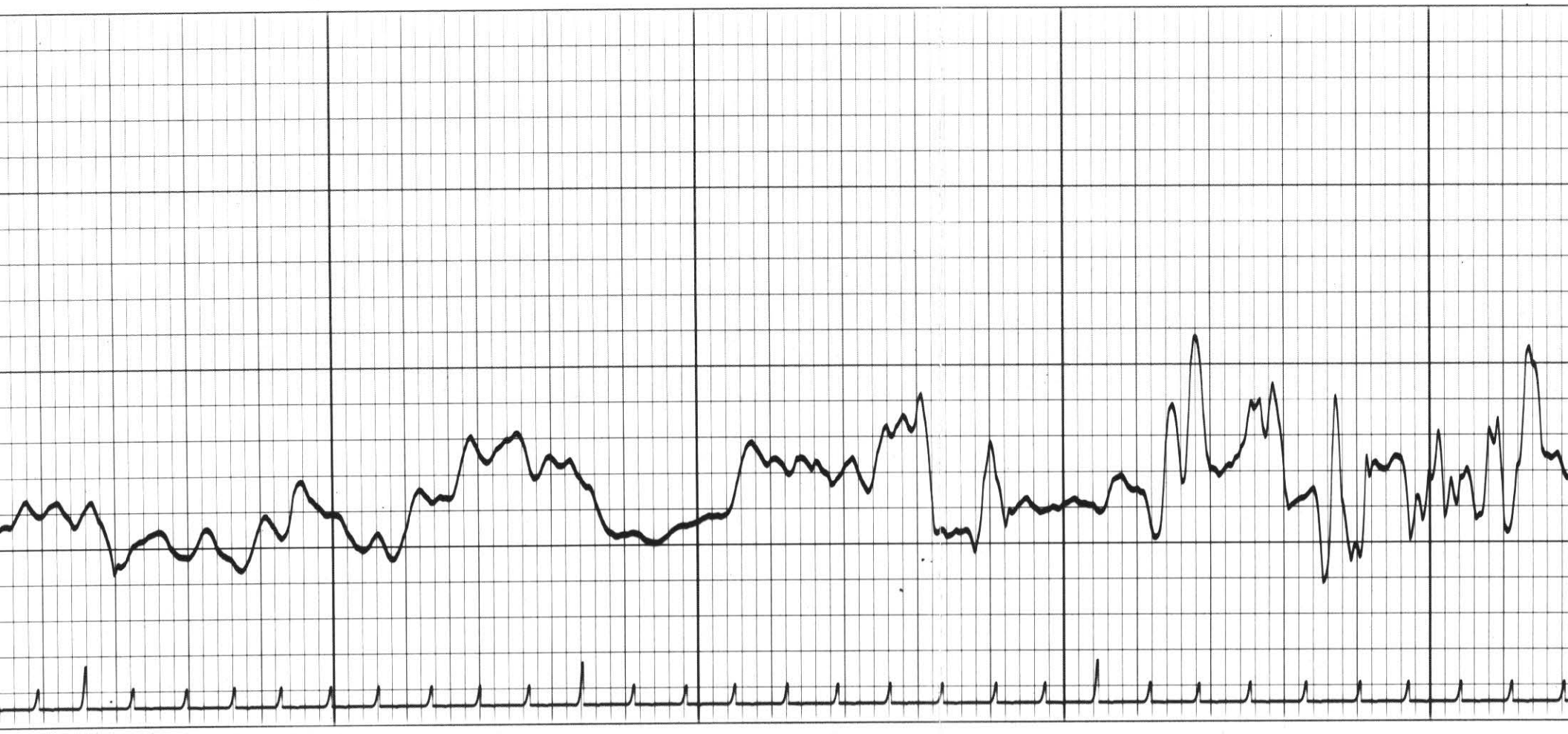
STANDOFFS AND CALIPER

C.D.: USED S.O.: 2 7/8 RIGID

Equip. Used: CART. No. SLC - B - 329
PANEL No. SLP - A - 169
SONDE No. SLS - D - 409

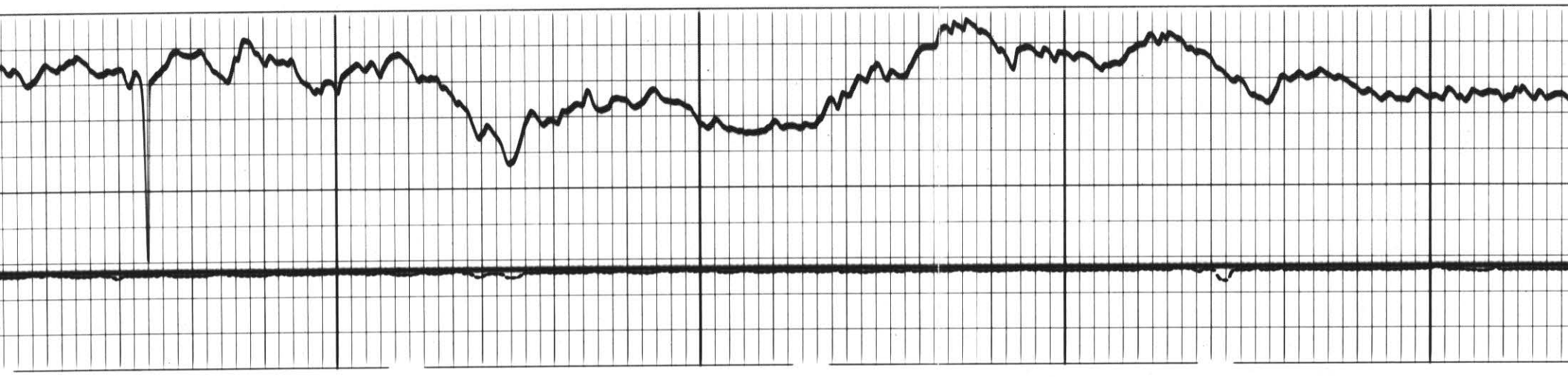
Velocity (feet per second) = $\frac{1{,}000{,}000}{\text{Interval Transit Time (microseconds per foot)}}$

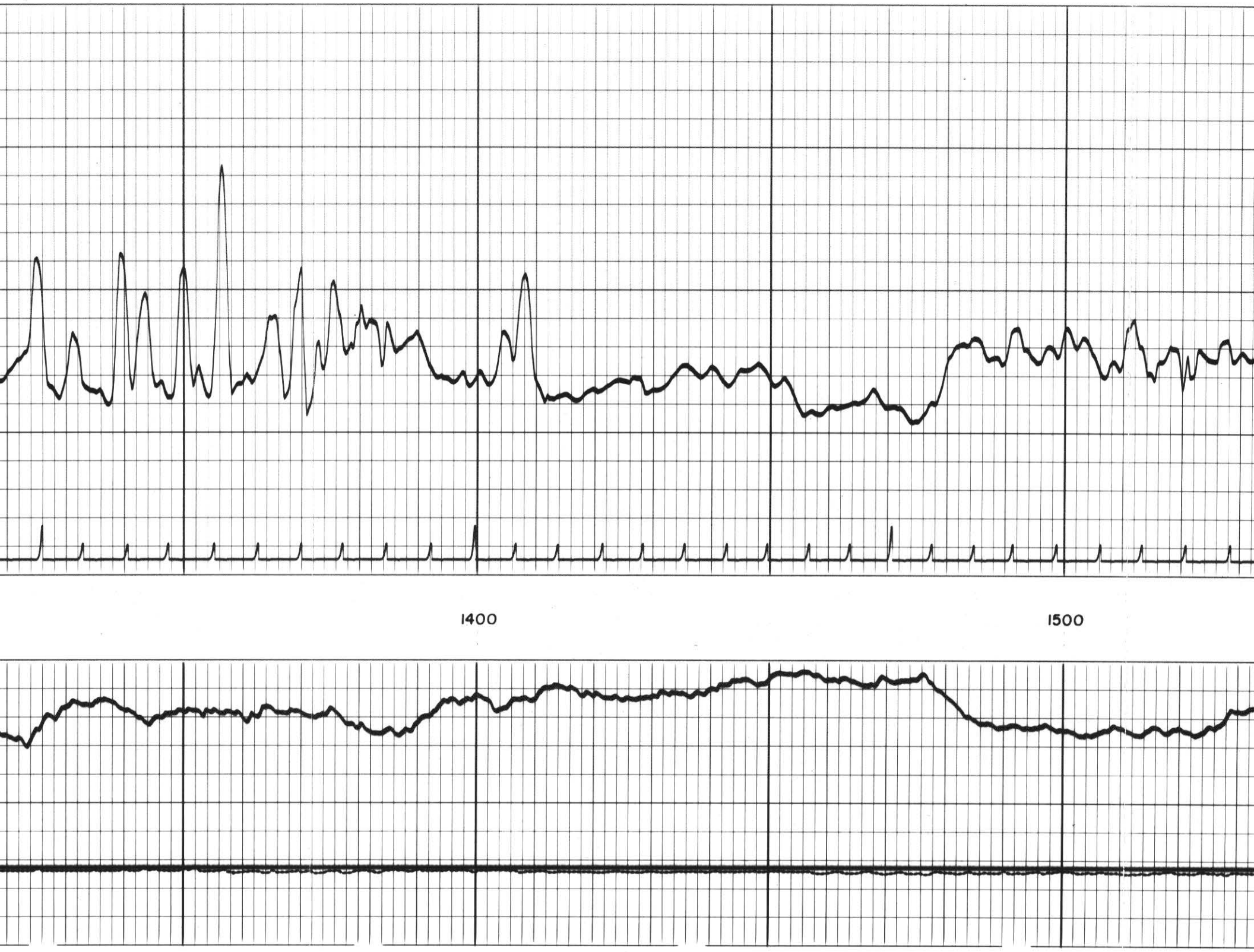
SPONTANEOUS-POTENTIAL MILLIVOLTS	DEPTHS	INTERVAL TRANSIT TIME MICROSECONDS PER FOOT
– 10 ↔ +		T 3 R₁ 2 R₂ 175 125 75 275 225 175
CALIPER HOLE DIAM. IN INCHES		
6 16		

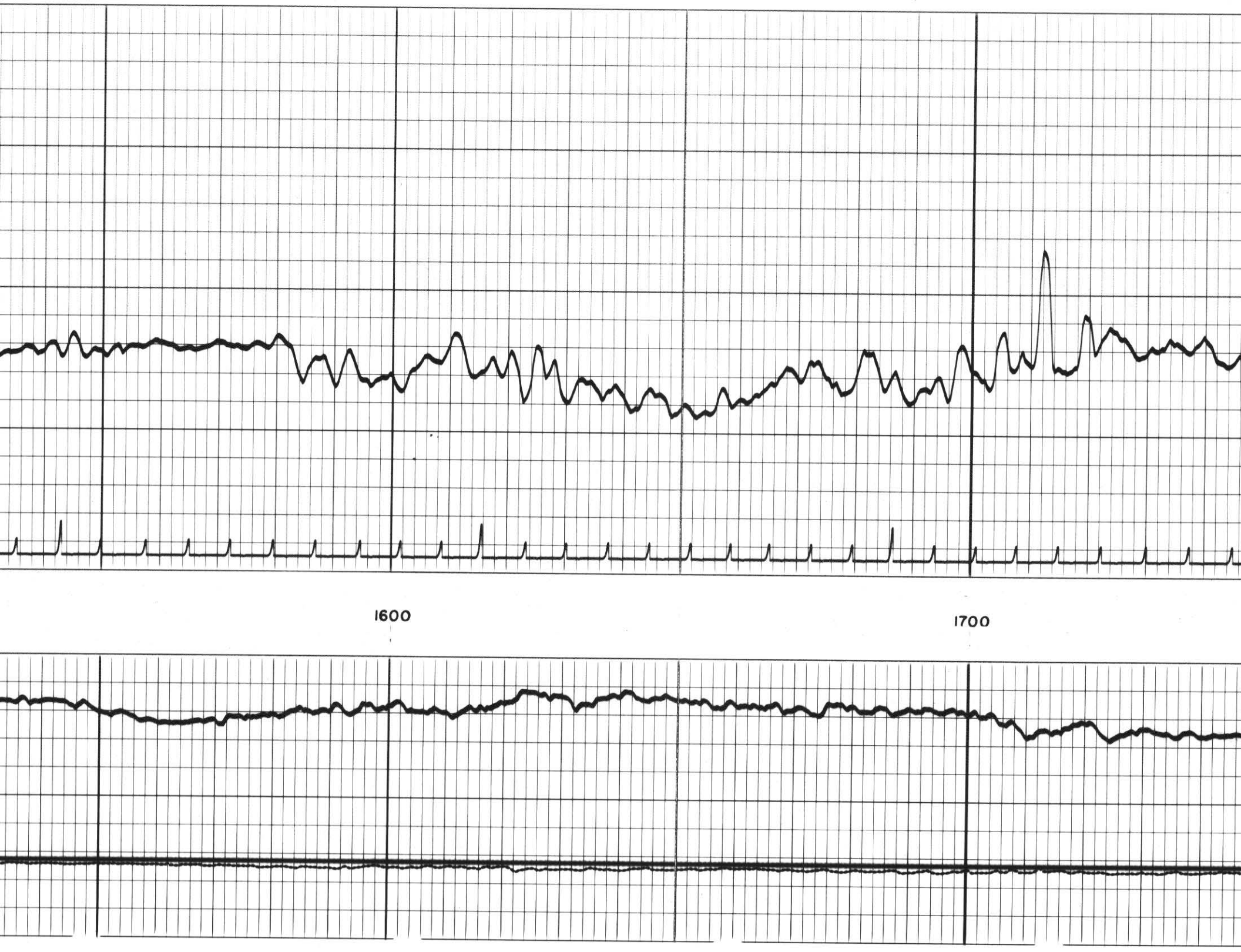


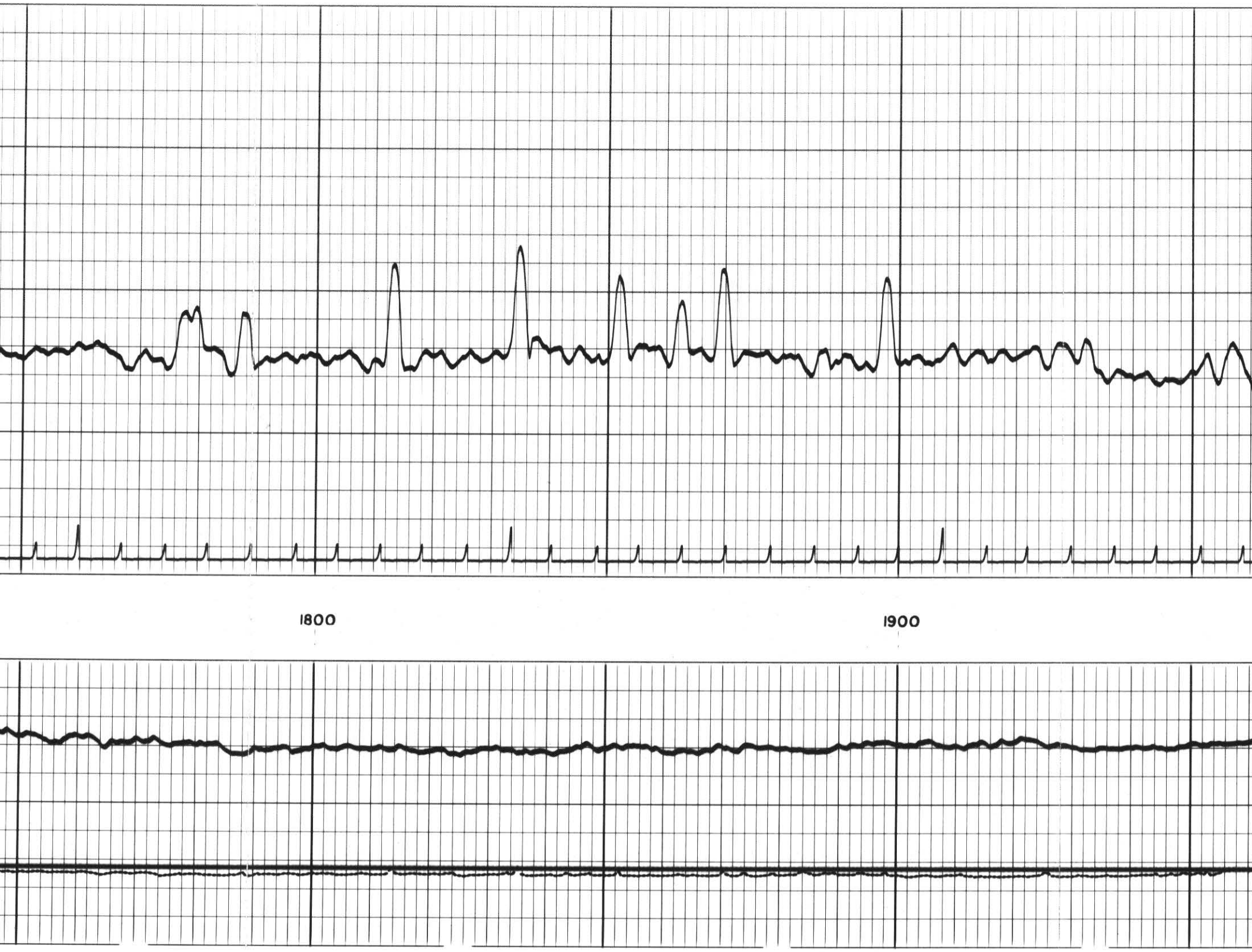
1200

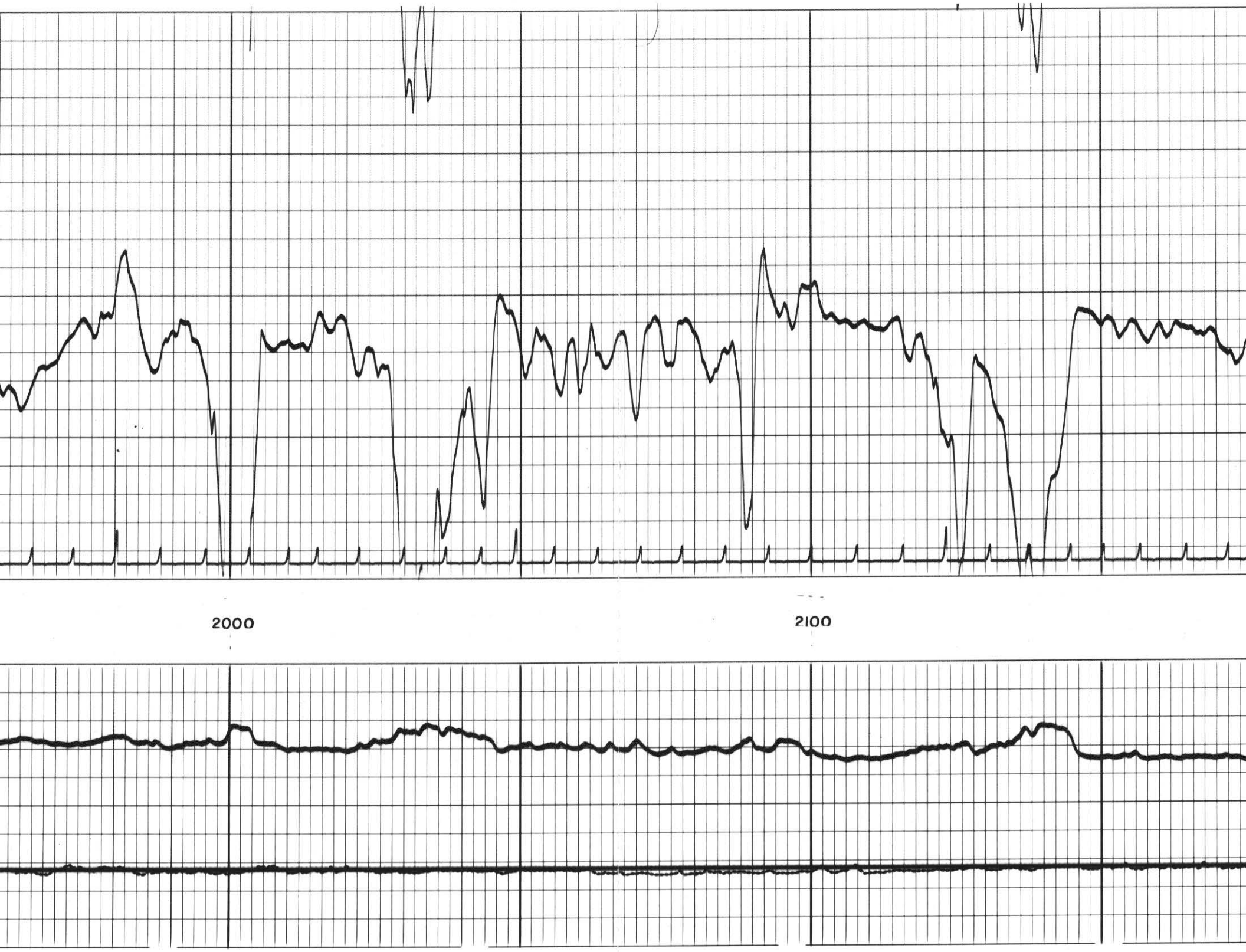
1300

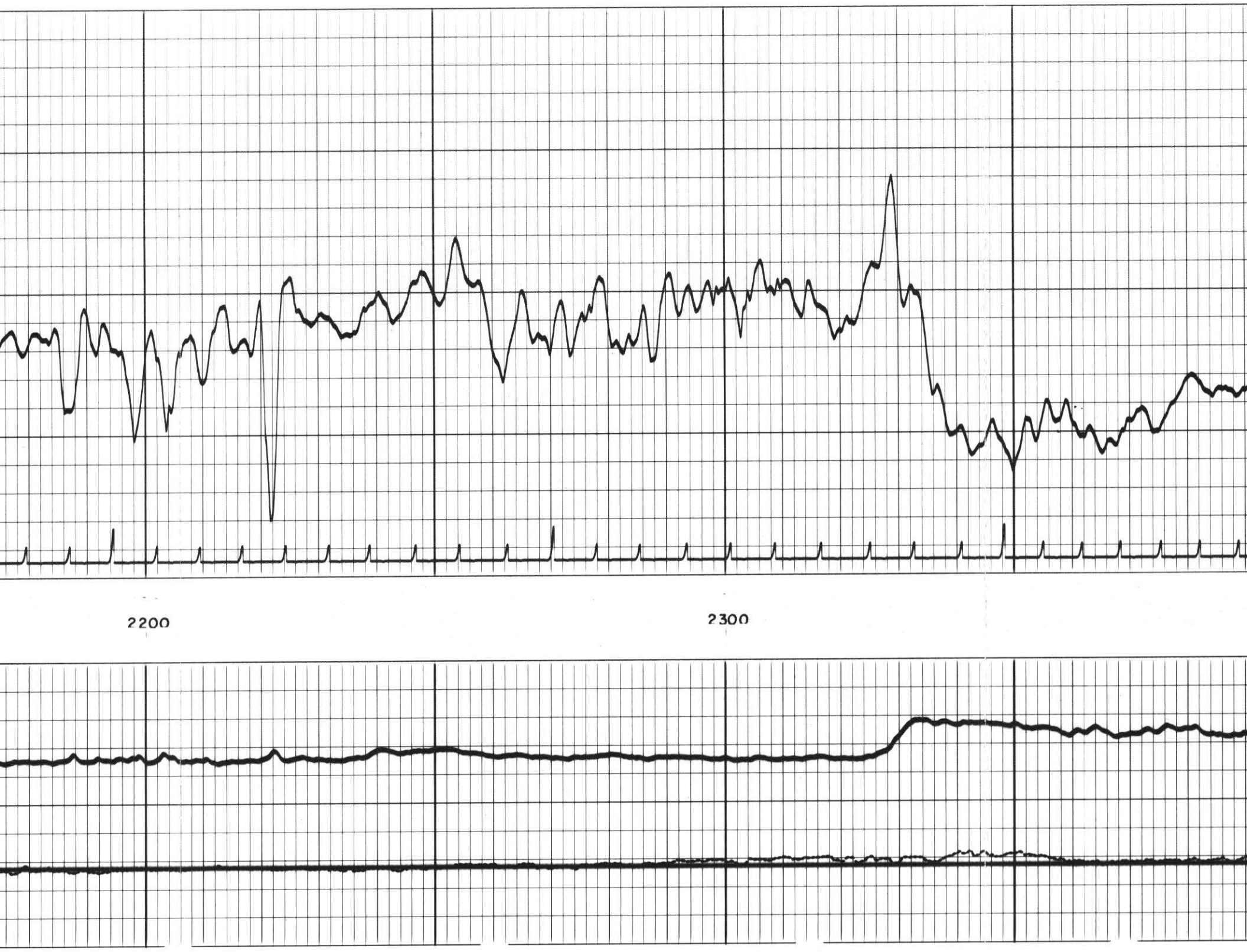


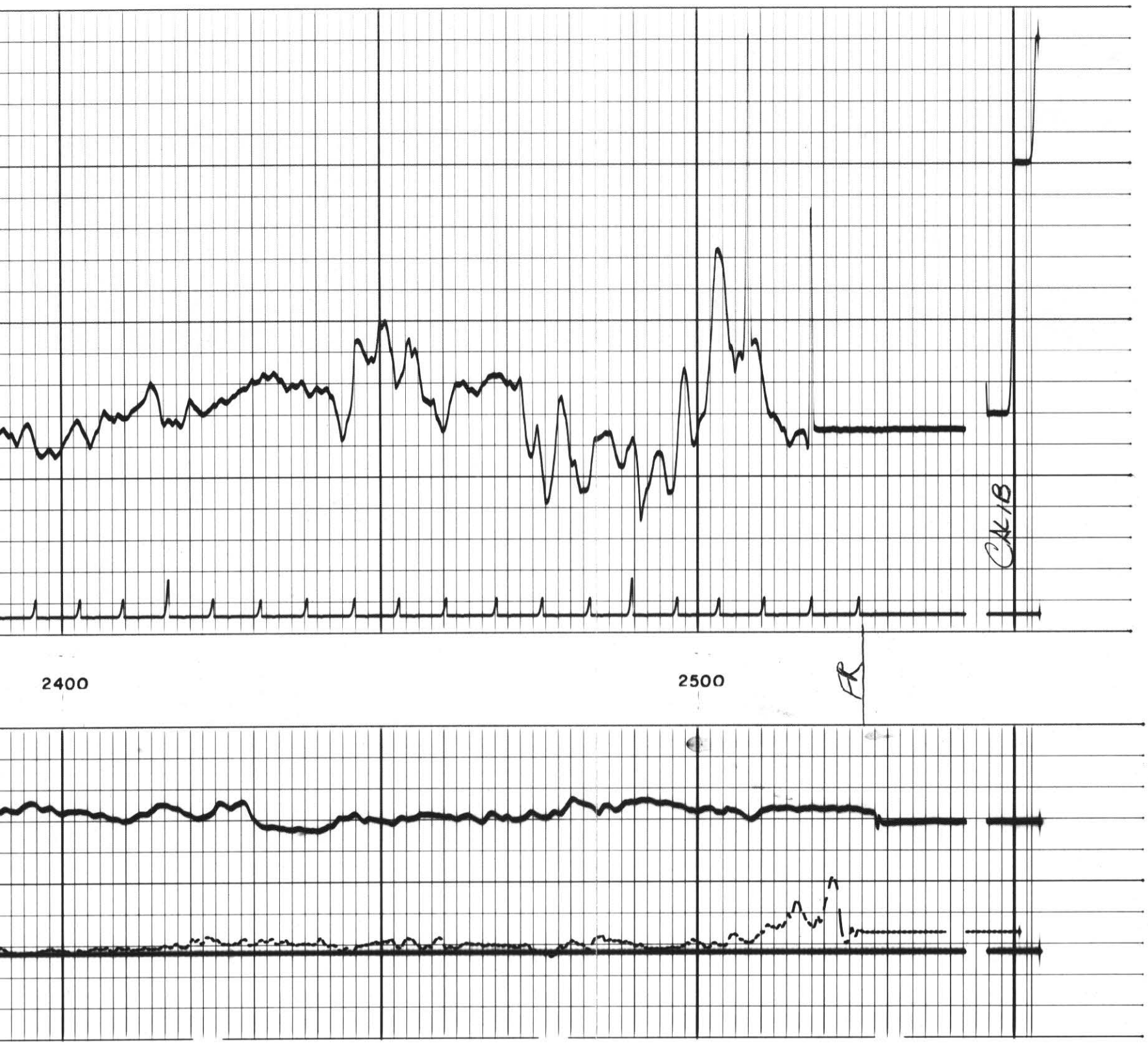

1400
1500

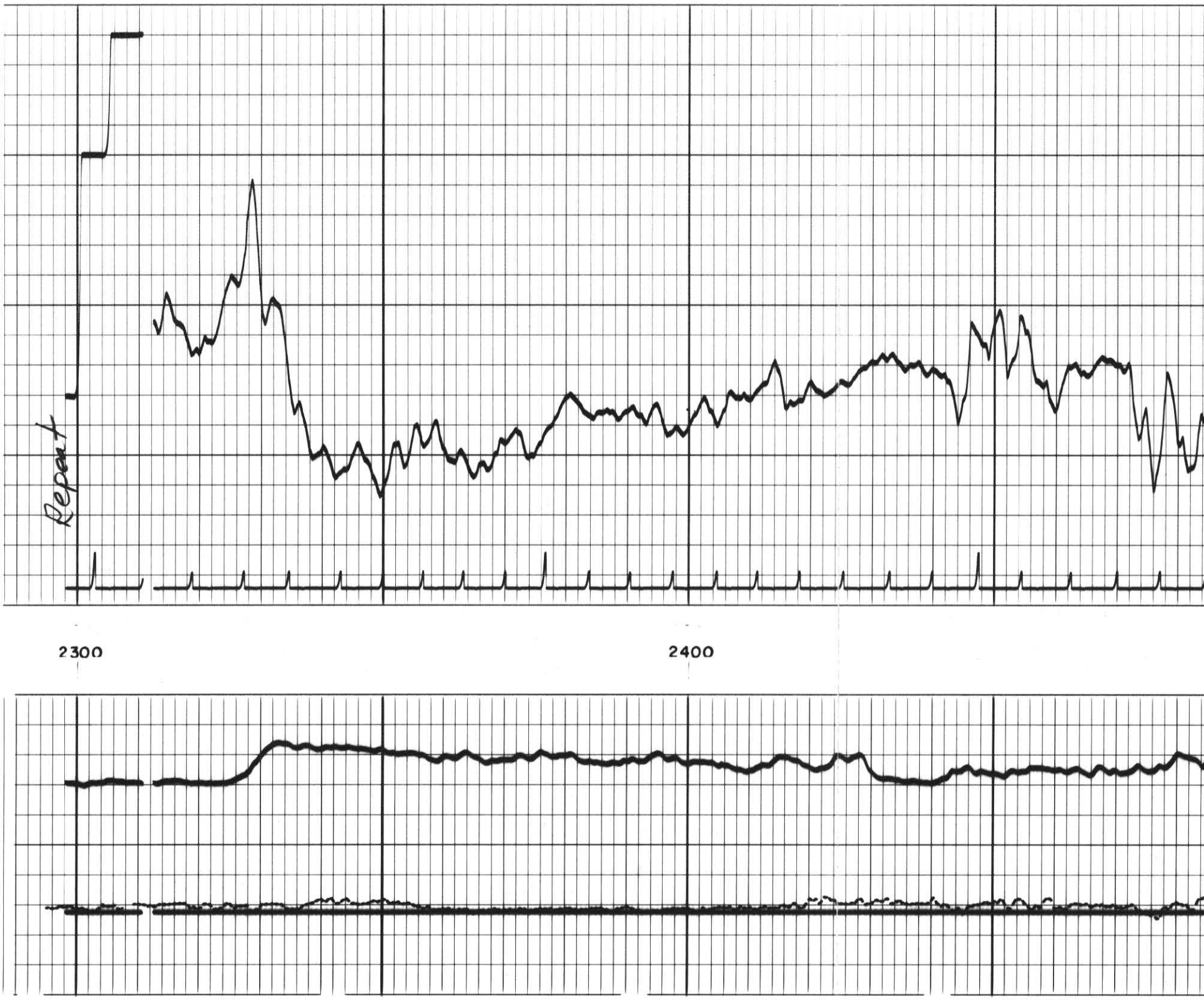

1600
1700

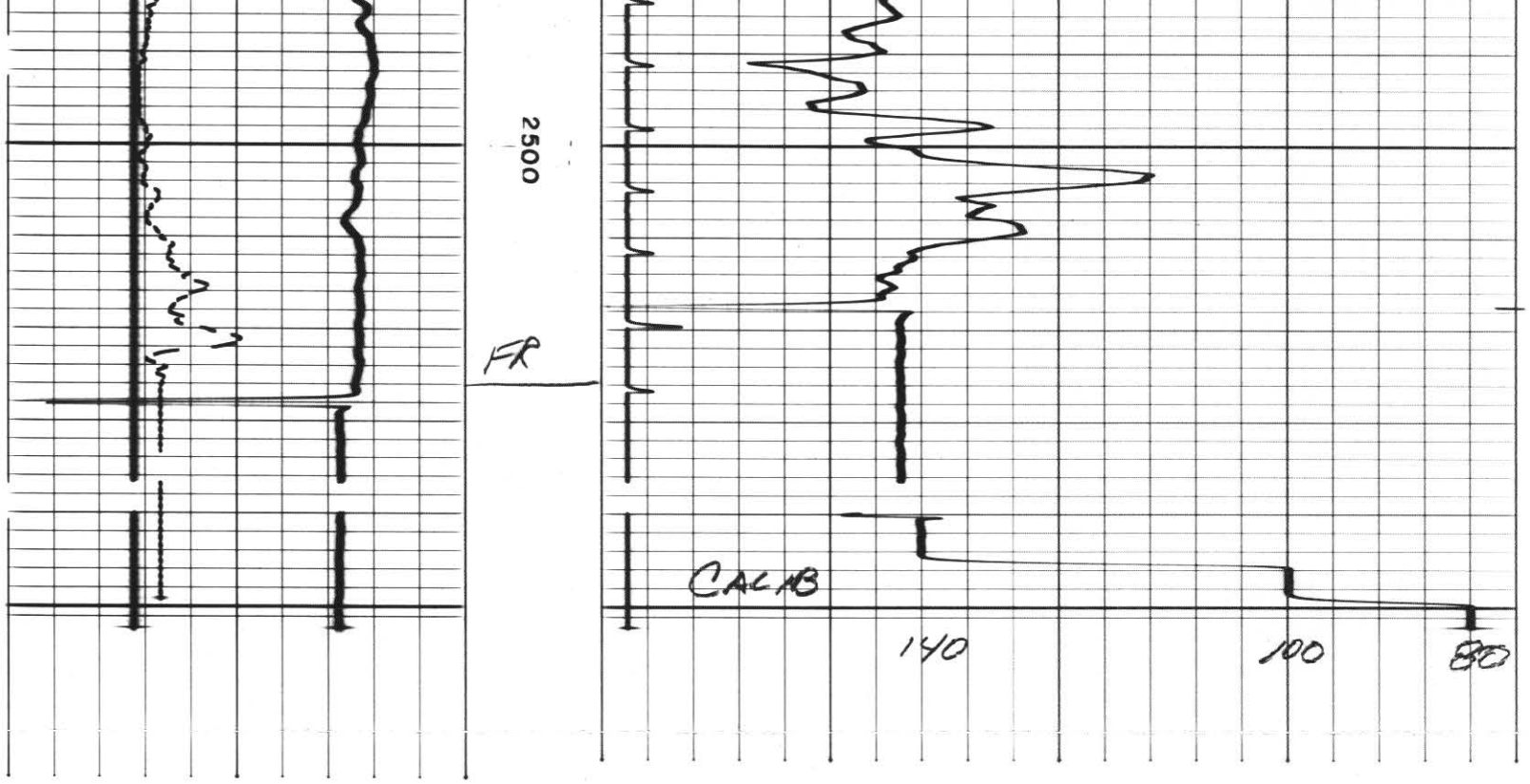

1800
1900


2000
2100


2200
2300


CM 18
2400
2500


Depart
2300
2400


2500
FR
CALIB
140
100
80