Run 1 8" ELEC. LOG

19-187

SCHLUMBERGER INDUCTION-ELECTRICAL LOG

COMPANY SHELL OIL Co.

CONFIDENTIAL

WELL SHELL MINARD OCA 1-34 (STRAT TEST 3A

FIELD OCEAN CITY AREA

COUNTY GRAYS HARBOR STATE WASHINGTON

COUNTY / FIELD or LOCATION / WELL / COMPANY

LOCATION

Sec. 34 Twp. 18N Rge. 12W

Other Services:

Permanent Datum: GL, Elev. 15.1

Log Measured From DF, 12 Ft. Above Perm. Datum

Drilling Measured From DF

Elev.: K.B. D.F. 27.1 G.L. 15.1

Date	5-17-70			
Run No.	1			
Depth—Driller	4600			
Depth—Logger	4591			
Btm. Log Interval	4590			
Top Log Interval	517			
Casing—Driller	9 5/8 @ 517	@	@	@
Casing—Logger	517			
Bit Size	8 3/4			
Type Fluid in Hole	FRESH LIGNOTHIN			
Dens. / Visc.	84 1/2 / 57			
pH / Fluid Loss	10.2 / 6.2 ml	ml	ml	ml
Source of Sample	CIRC.			
R_m @ Meas. Temp.	1.96 @ 67 °F	@ °F	@ °F	@ °F
R_{mf} @ Meas. Temp.	2.17 @ 63 °F	@ °F	@ °F	@ °F
R_{mc} @ Meas. Temp.	1.26 @ 63 °F	@ °F	@ °F	@ °F
Source: R_{mf} / R_{mc}	M / M			
R_m @ BHT	@ 105 °F	@ °F	@ °F	@ °F
Time Since Circ.	3 HRS.			
Max. Rec. Temp.	105 °F	°F	°F	°F
Equip. / Location	3716 / SAC			
Recorded By	ANDERSON			
Witnessed By				

FOLD HERE

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

REMARKS

Scale Changes: Type Log | Depth | Scale Up Hole | Scale Down Hole

Equipment Data: Run No. 1 | Tool Type 6FF40 | Tool Position STANDOFF | Other

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. | R_{mf} @ Meas. Temp. | R_{mc} @ Meas. Temp. | Source: R_{mf} / R_{mc} | R_m @ BHT | R_{mf} @ BHT | R_{mc} @ BHT

Run No.: 1

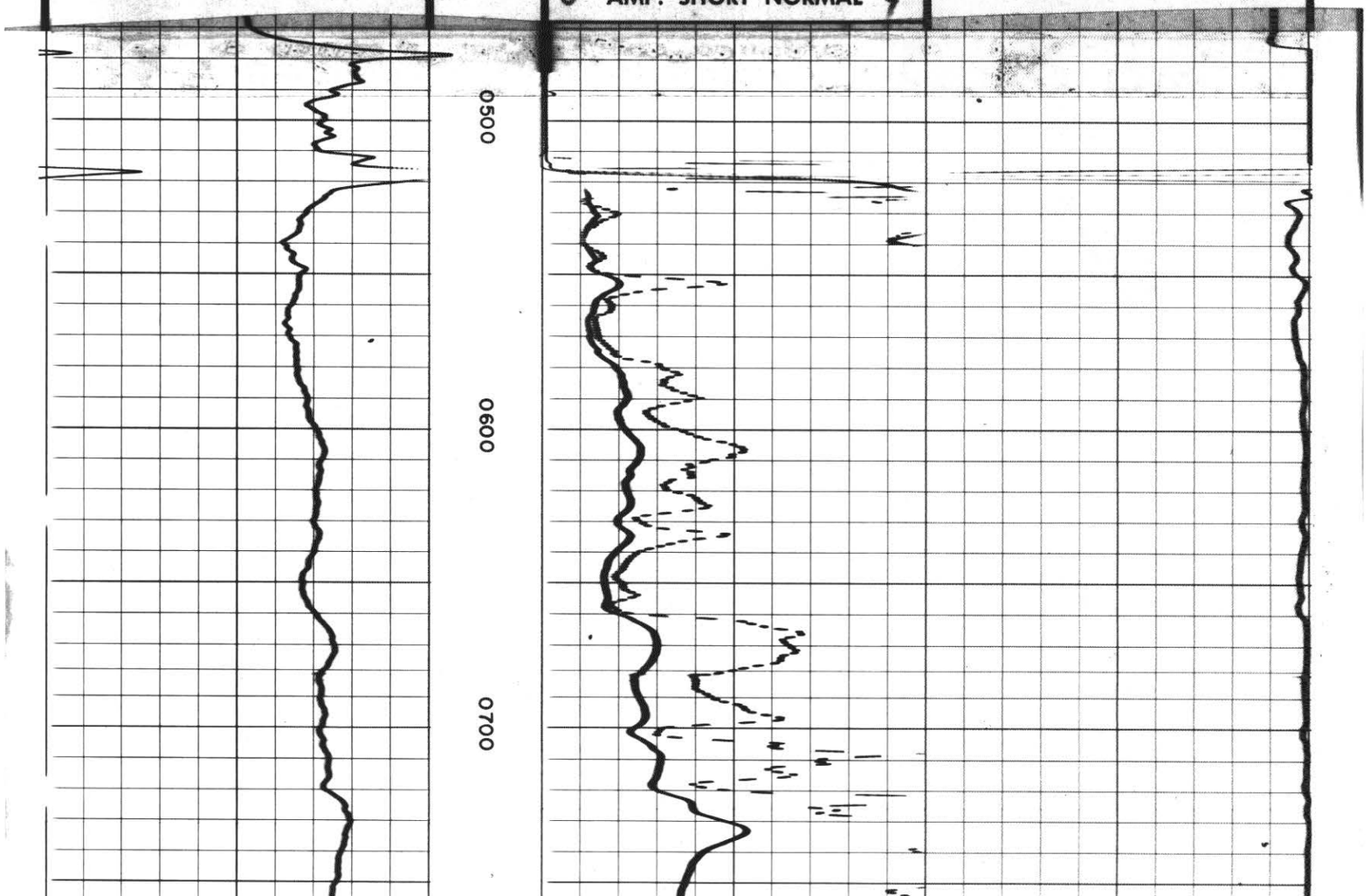
C.D.:

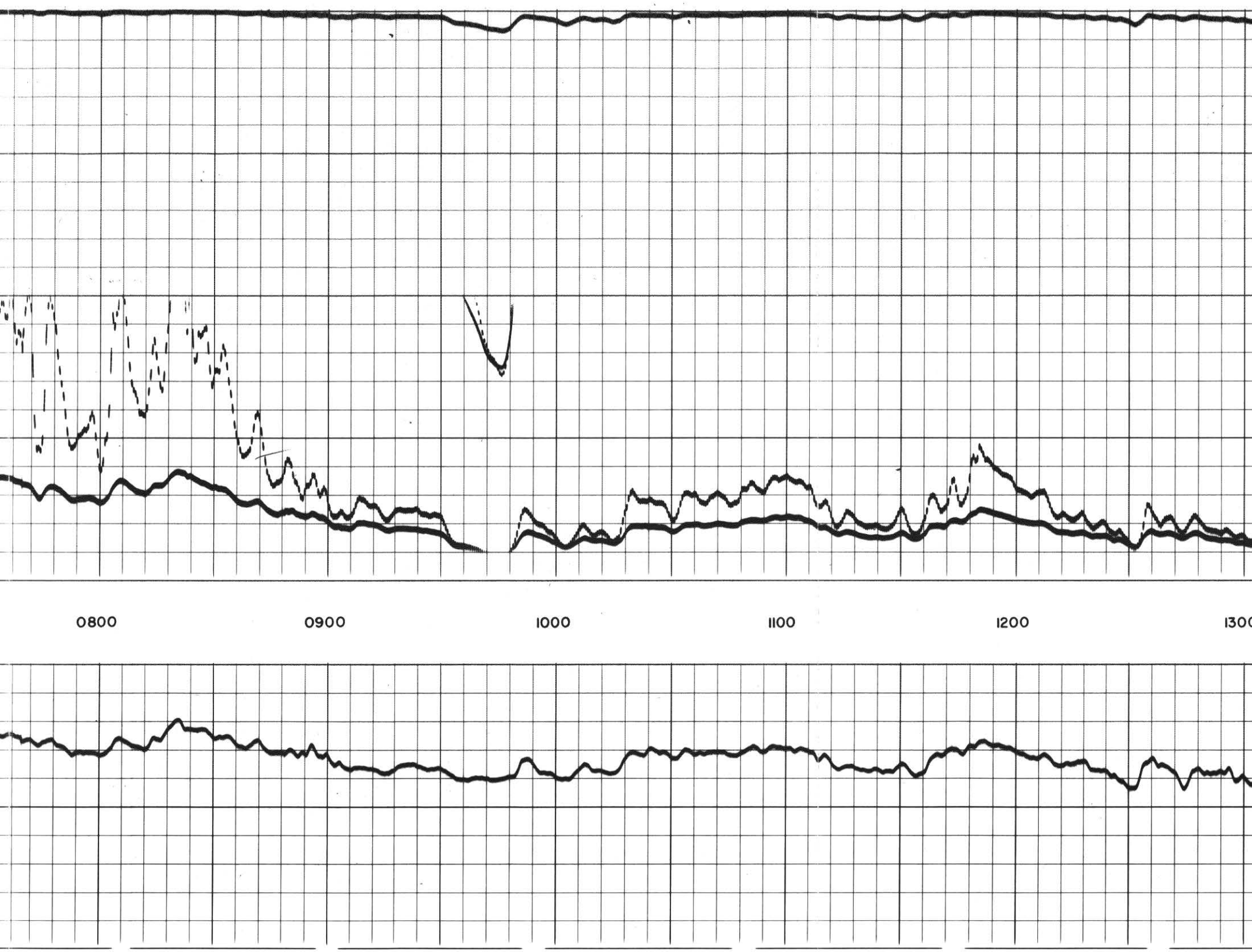
SWS—1099-E

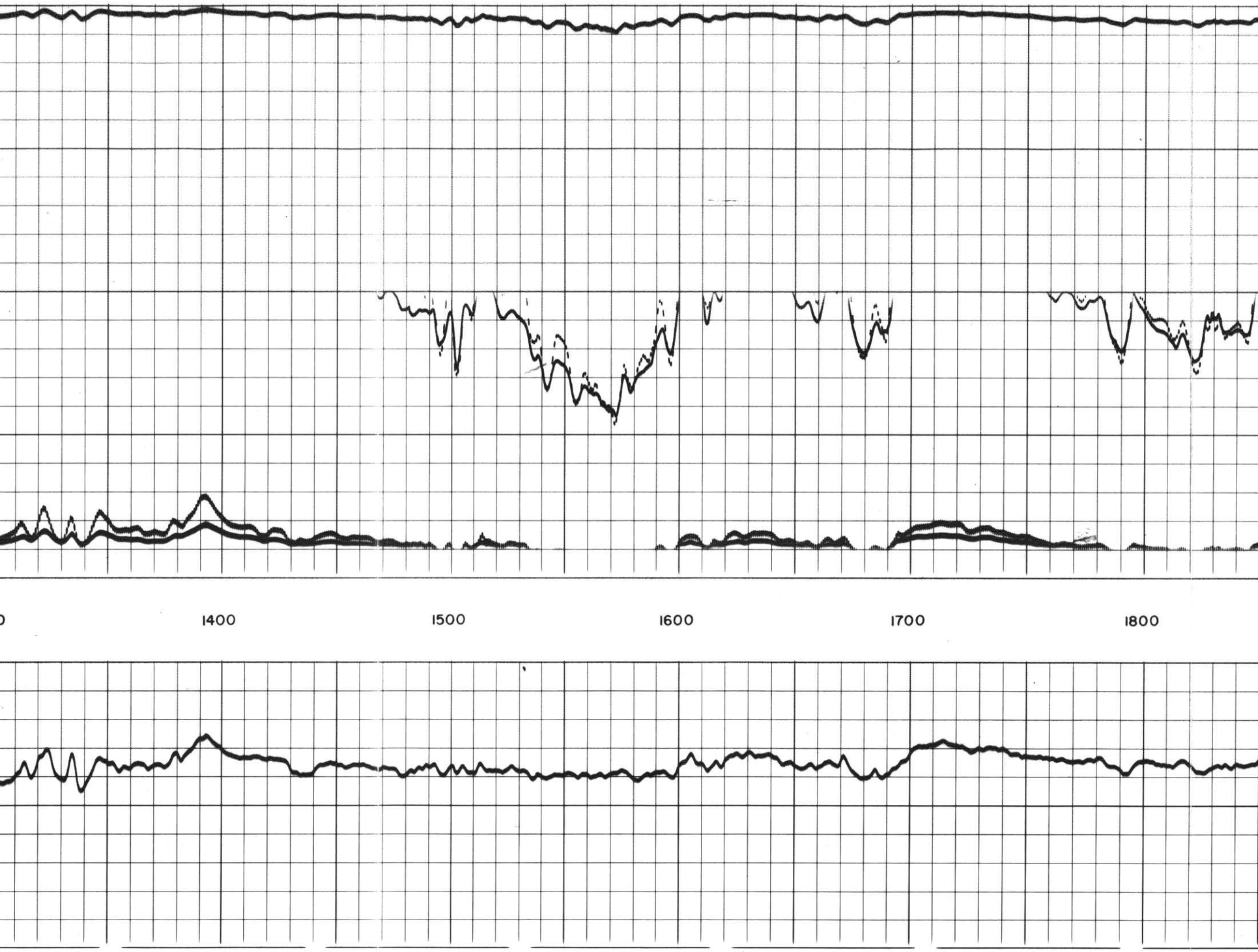
S.O.: 1 1/2"
Equip. PANEL No.: G159
Used: CART. No.: F255
SONDE No.: M221
IAP No.: MMPA 21
S.B.R.: 1

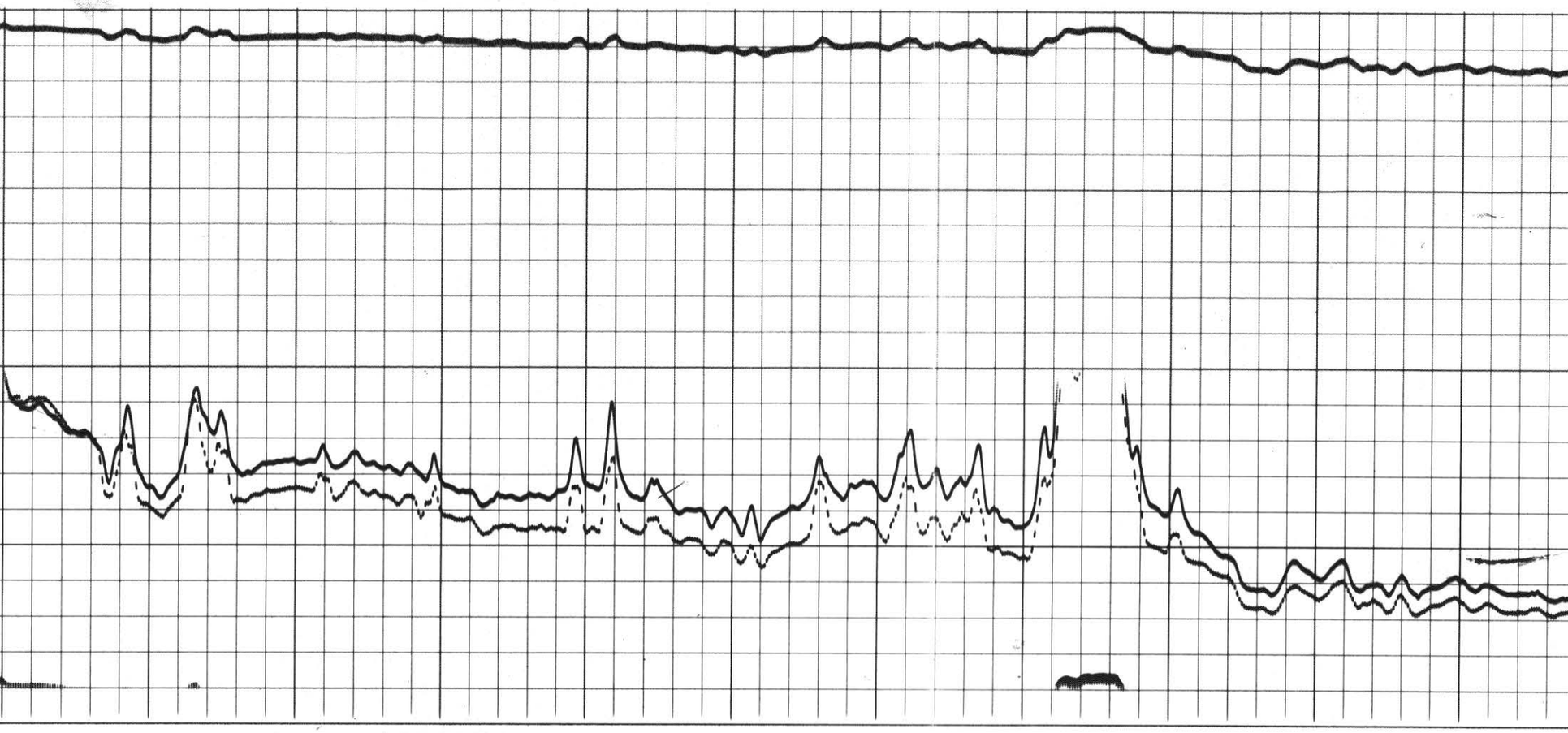
Check one, filling in blanks where applicable:
- [x] Surface determined sonde errors used for 6FF40.
- [ ] 6FF40 sonde error corrected for _____ inch borehole signal at Rm =
- [ ] 6FF40 zero set in hole at depth of _____ feet.

SPONTANEOUS POTENTIAL millivolts	DEPTHS	RESISTIVITY ohms-m²/m	CONDUCTIVITY millimhos/m = 1000/(ohms-m²/m)
10 (− ↔ +)		A-16"-M SHORT NORMAL: 0 – 20	6FF40 INDUCTION: 1000 – 0
		0 – 200	2000 – 1000
		INDUCTION: 0 – 20	
		0 – 200	
		0 AMP. SHORT NORMAL 4	

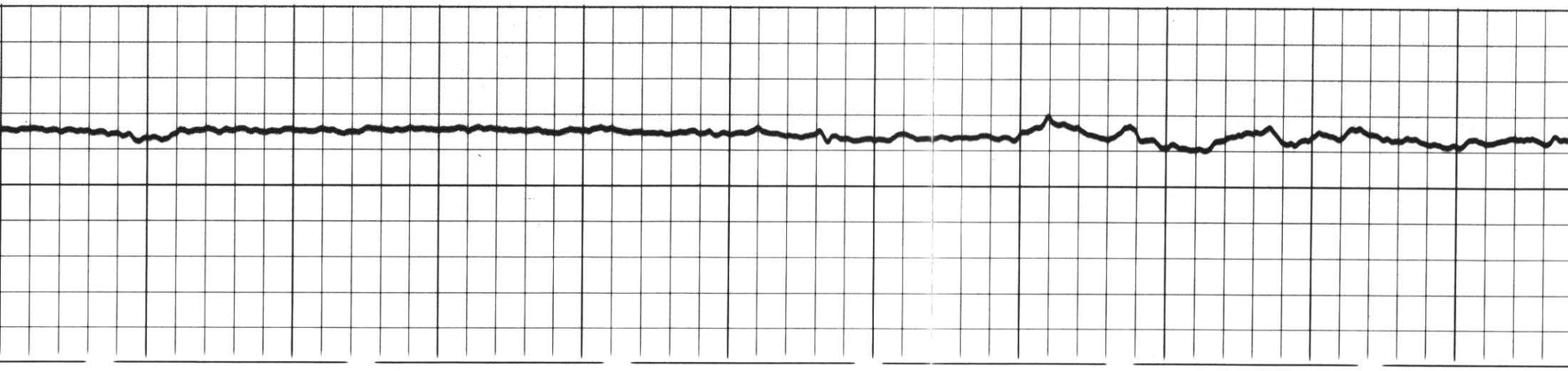


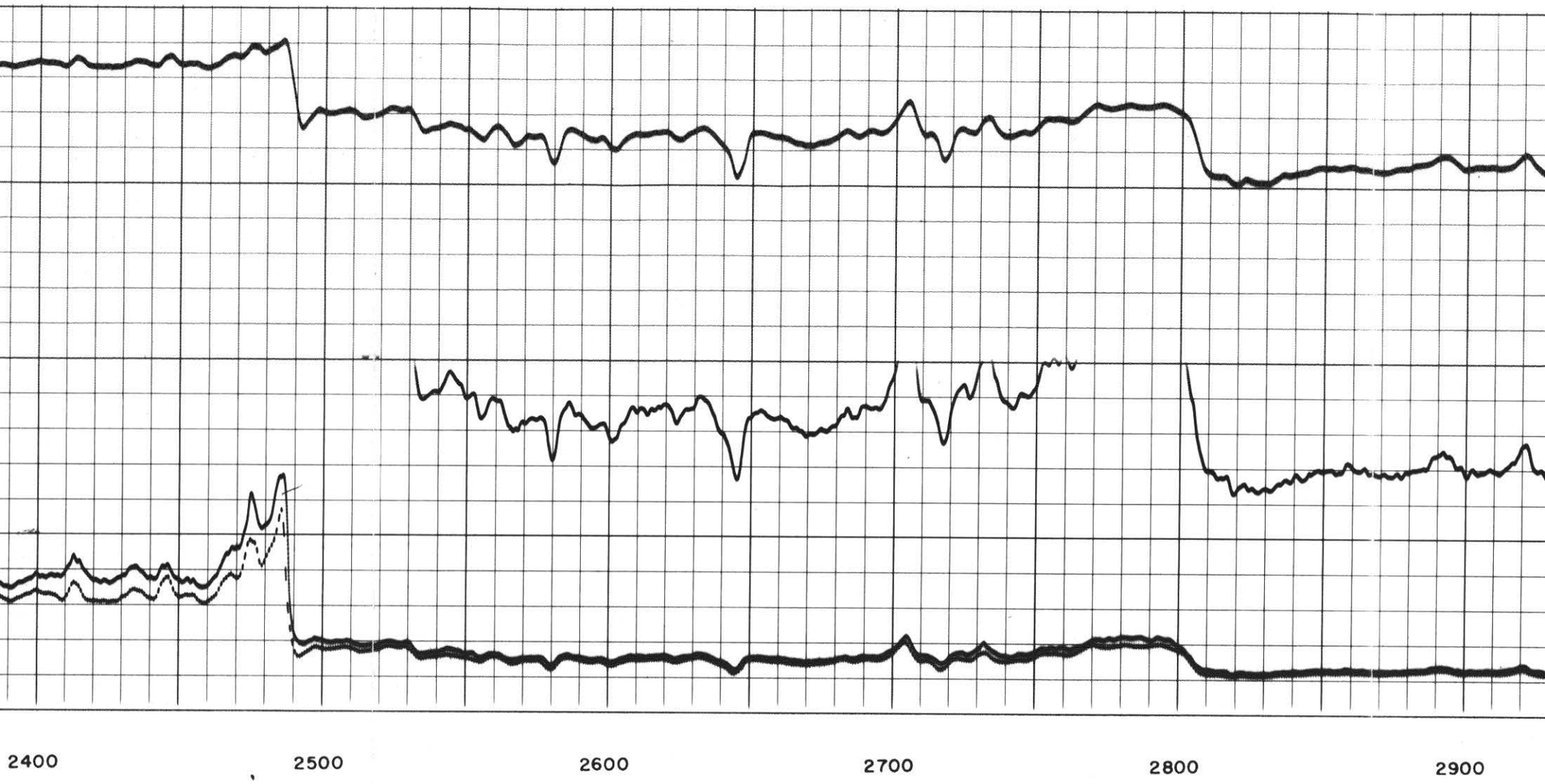

0800
0900
1000
1100
1200
1300

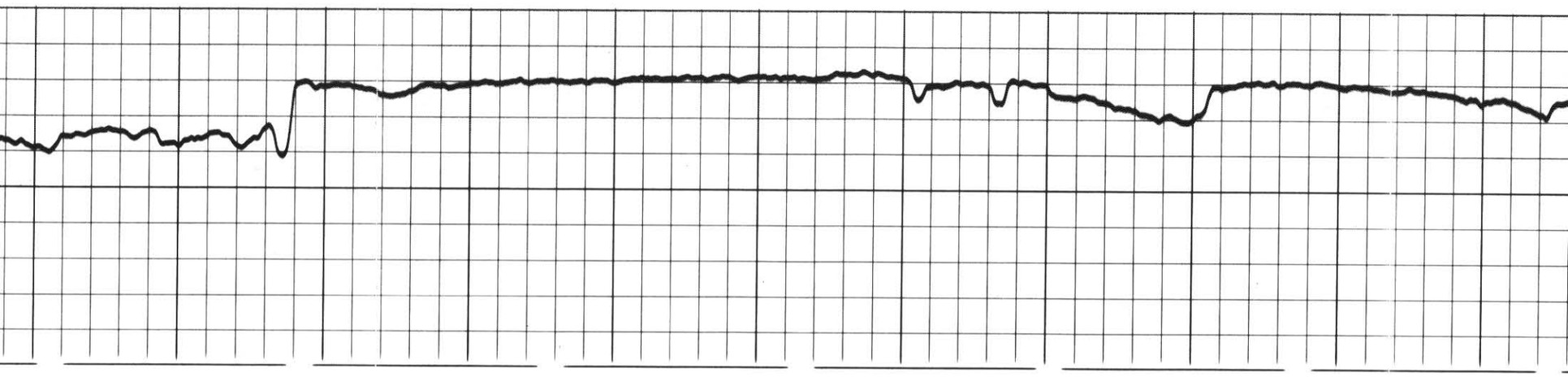

0
1400
1500
1600
1700
1800

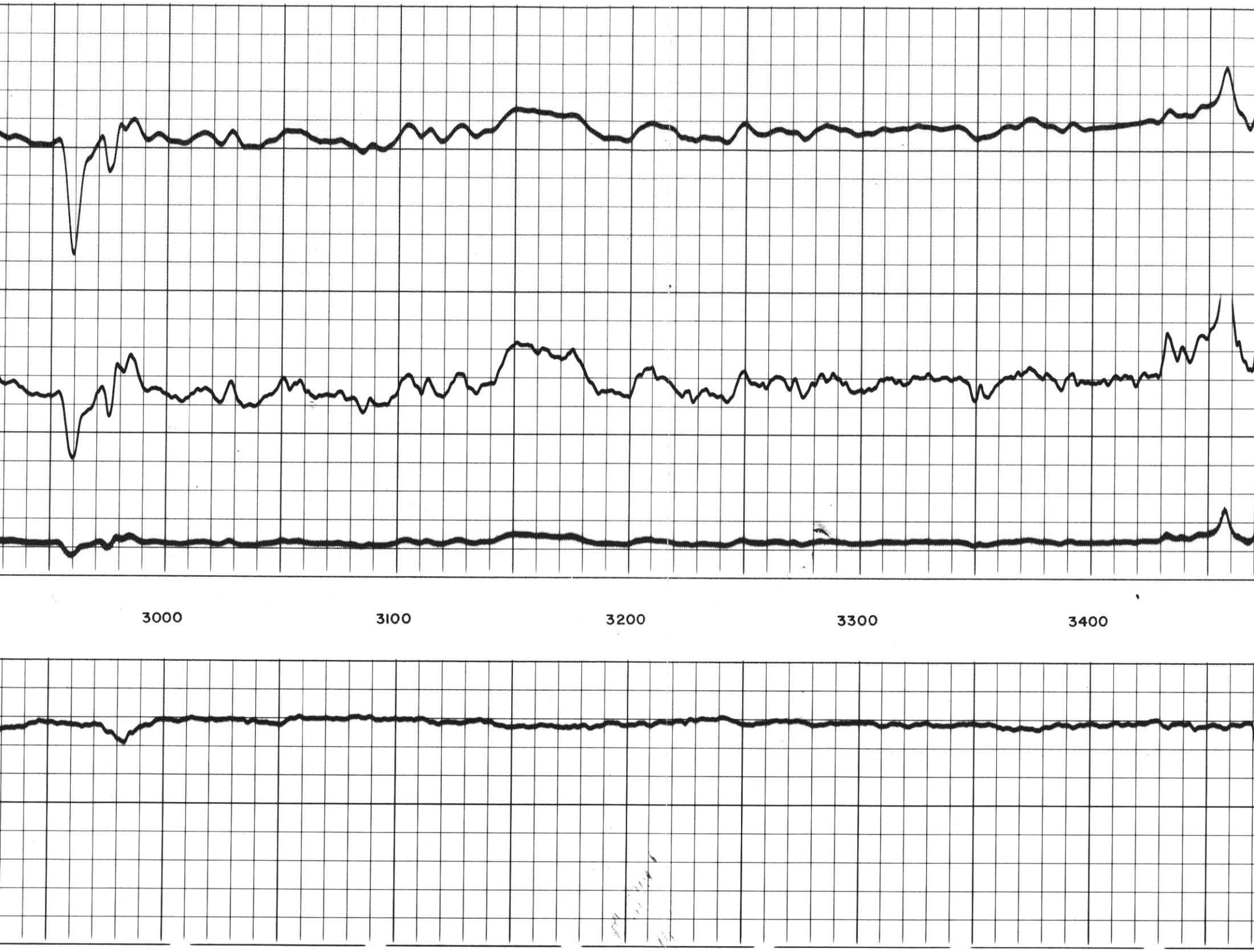


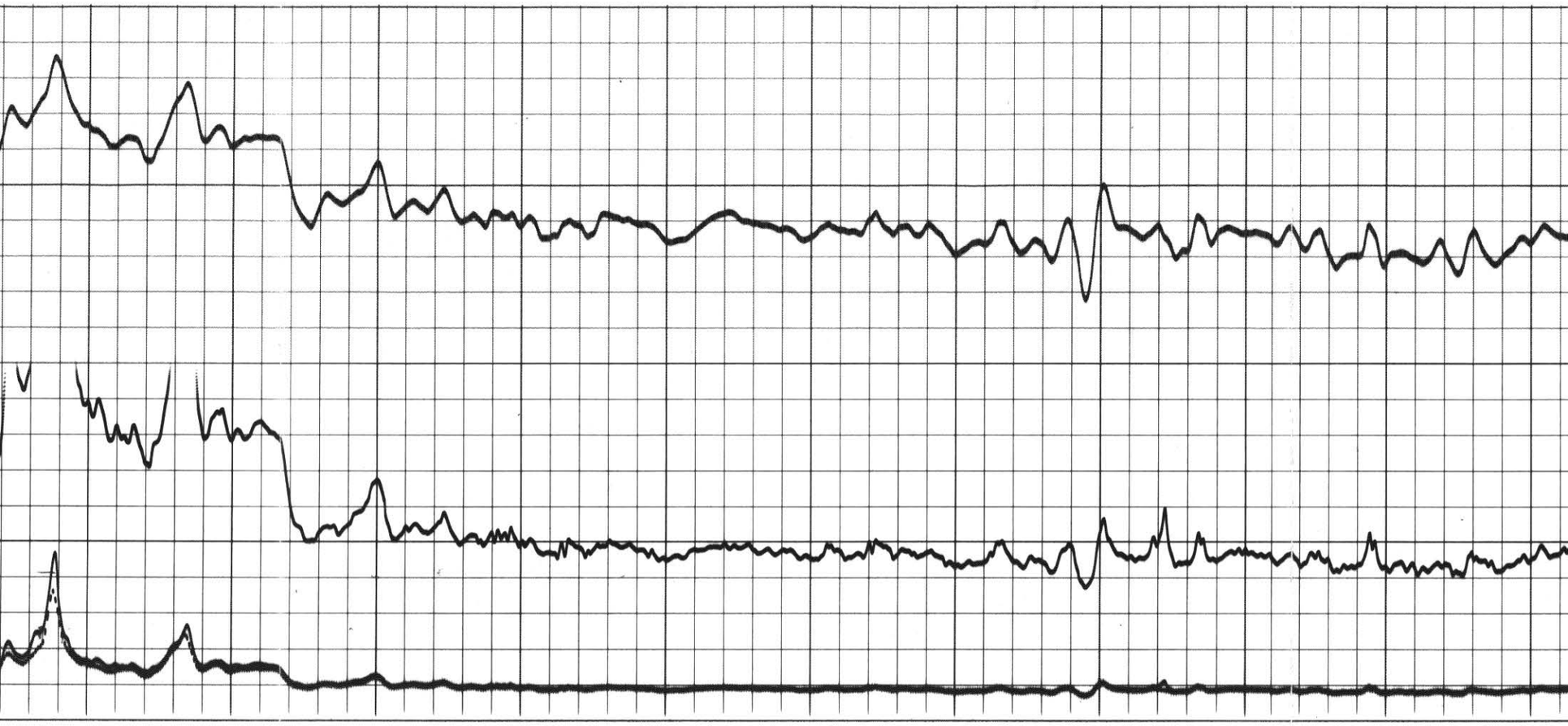
1900 2000 2100 2200 2300



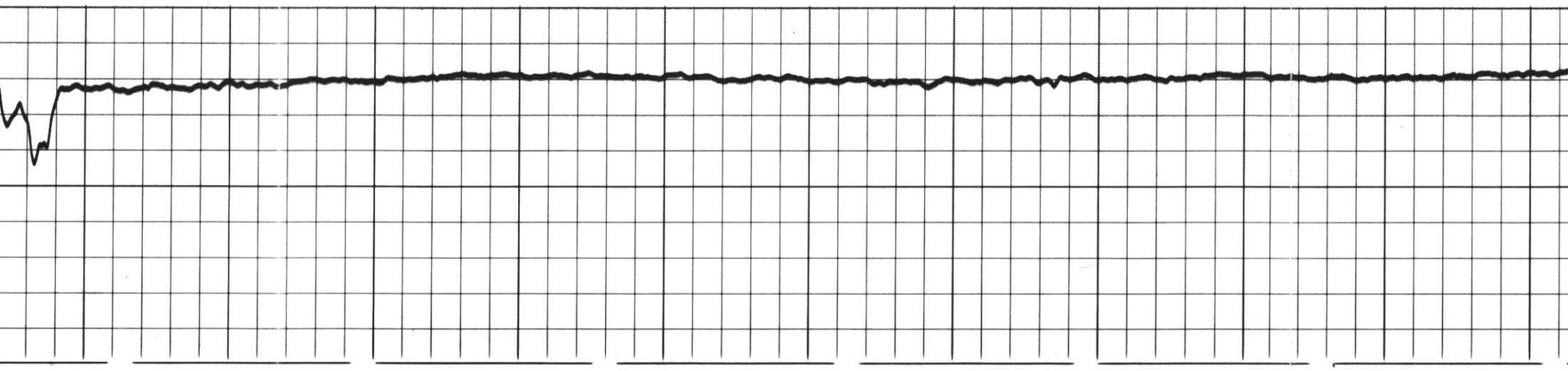

2400
2500
2600
2700
2800
2900

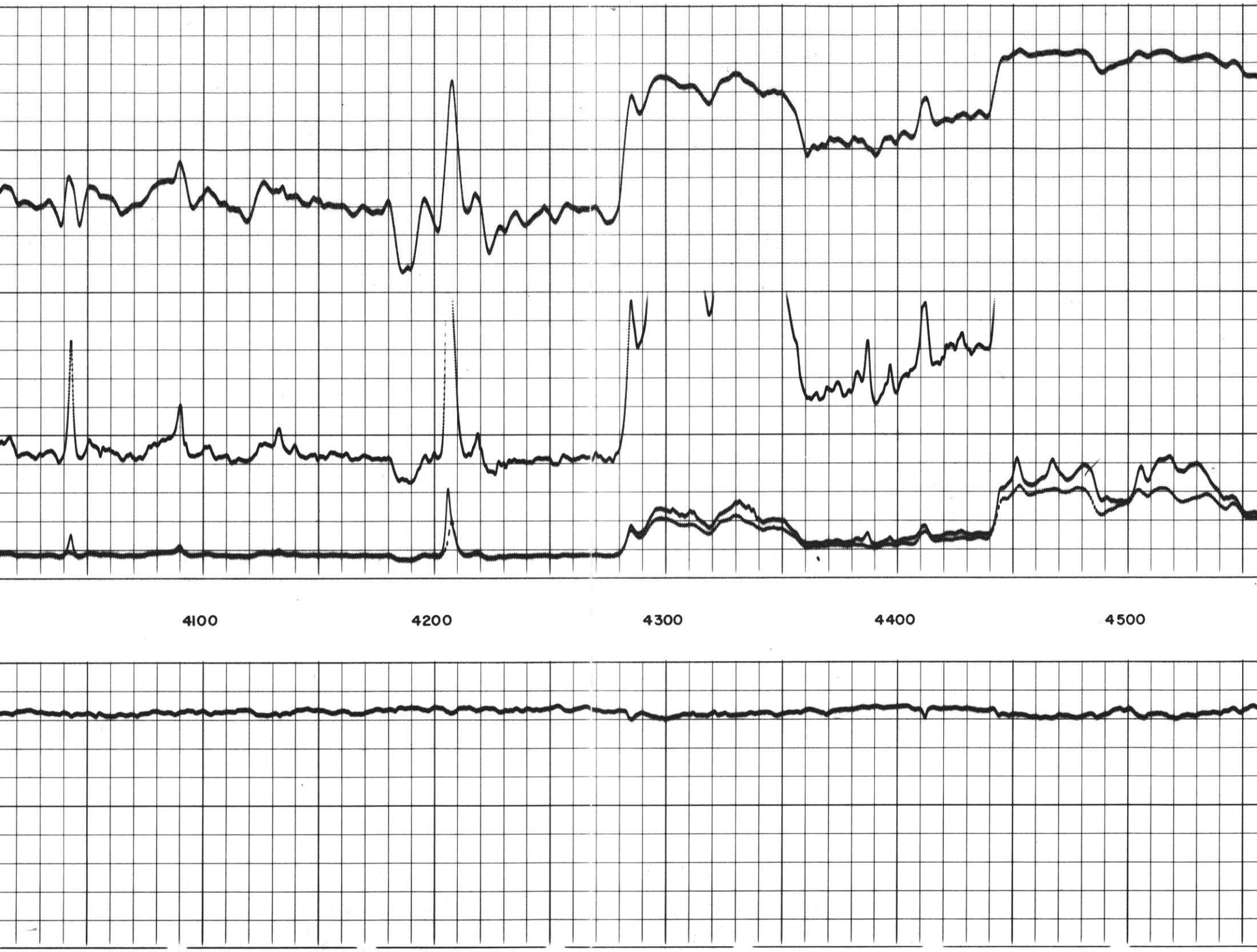


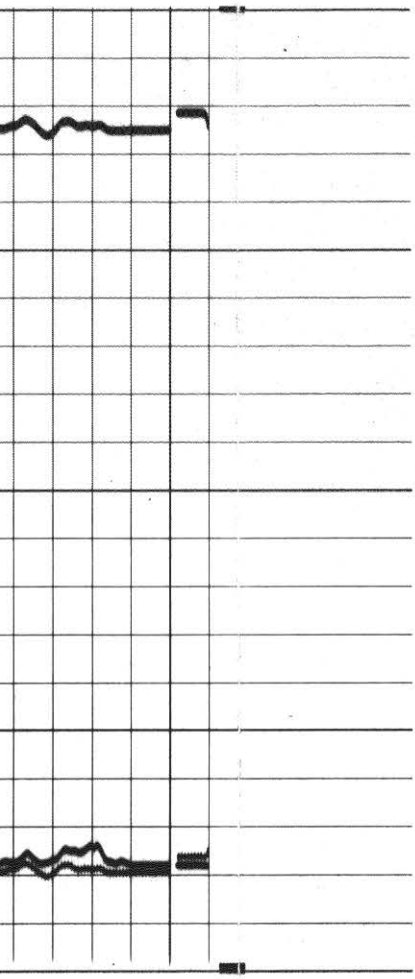
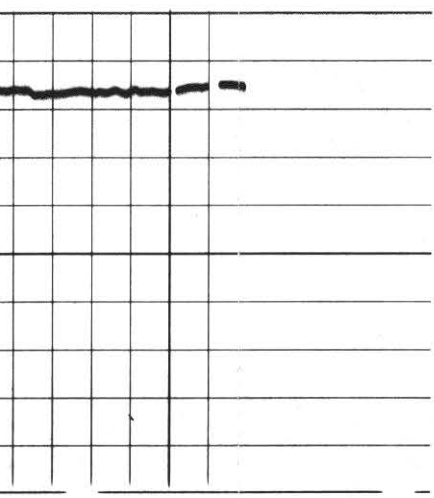

3000
3100
3200
3300
3400



3500 3600 3700 3800 3900 4000




4100
4200
4300
4400
4500



4600