1 265

19-191

SCHLUMBERGER

COMPENSATED FORMATION DENSITY LOG
Gamma-Gamma

COMPANY SHELL OIL CO.

WELL OCEAN CITY LAND COMPANY 1-14

FIELD OCEAN CITY AREA

COUNTY GRAYS HARBOR STATE WASHINGTON

COUNTY / FIELD or LOCATION / WELL / COMPANY

Location: NW/4 SE/4

Sec. 14 Twp. 18N Rge. 12W

Other Services:

Permanent Datum: GL, Elev.: 31.35

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

Drilling Measured From RT

Elev.: ~~K.B.~~ KB 43.35
D.F.
G.L.

Date	7-2-70	7-9-70	7-12-70
Run No.	1	2	3
Type Log	GR-GR	GR-GR	GR-GR
Depth—Driller	3530	3725	4268
Depth—Logger	3525	3722	4265
Bottom logged interval	3527	3721	4262
Top logged interval	519	3527	3721
Type fluid in hole	FRESH LIGNO	FRESH LIGNO	FRESH LIGNO
Salinity, PPM Cl.			
Density	124	128	129
Level	FULL	FULL	FULL
Max rec. temp., deg F.	97	103	118
Operating rig time	2	2	2
Recorded by	ANDERSON	ANDERSON	ANDERSON
Witnessed by	DYER	DYER	DYER

RUN No.	BORE-HOLE RECORD Bit	From	To	CASING RECORD Size	Wgt.	From	To
1	8 3/4	519	3530	8 3/4		0	918
2	6 1/8	3530	3725	7		0	3527
3	6 1/8	3720				0	

SWS-1381-D

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

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EQUIPMENT DATA

	Gamma-Gamma			General		
Run No.	1	2	3	1	2	3
Tool Model No.						
Diameter	SAME		3 5/8	SAME		
Det'r Model No.			0			
Type	SCINT					
Hoist Truck No.						3716
Inst. Truck No.						3716
Tool Serial No.						POSE 179
Location						SAC

LOGGING DATA

General Run No.	Depths From	Depths To	Speed Ft/Min.	T.C. Sec.	Gamma Ray Sens. Settings	Zero Div. L or R	API Units per Log Div.	Gamma-Gamma Log. T.C.	CALIBRATE — ACPS. ρ_1	ρ_2
1	915	3525	30	2	100	0	10	2	352	670
2	3527	3725	30	2	100	0	10	2	352	670
3	3725		30	2	100	0	10	2	352	670

Remarks: PGP-0 372

PDH-A 158
PGS-B 138
PGH-A 138
PGS E 179
SFT 106 218
SOURCE 2427

EQUIPMENT DATA

Run No.	PG P-	PDH-A	PGH-A	PGS-E	Source No.	SFT-106	SGH	Logging Unit	Location
1	372	158	138	179	2427	218	485	3716	SAC
2									
3									

CALIBRATION DATA

Run No.	Gamma Ray			FDC — Before Log — ACPS		FDC — After Log — ACPS	
	API Scale	Background CPS	Total CPS	P_1	P_2	P_1	P_2
1	100	60	460	352	676	352	676
2							
3							

LOGGING DATA

General					Gamma Ray	FDC Selectors			
Run No.	Depths From	Depths To	Speed Ft./Min.	Tc	API Scale	Liquid Density	Grain Density	Hole Fluid	Porosity Scale
✓			30	2	0-100	1.0	2.65	LIQUID	—

MUD DATA

Run No.	Rm. @ °F	% Solids by Vol.	% Oil by Vol.	% Water by Vol.	Viscosity, Sec/Qt @ °F	Solids, Av. Sp. Gr.
1	2.45 @ 62 °F				@ °F	
2	@ °F				@ °F	
3	@ °F				@ °F	

Remarks:

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 interpreations, 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 7 of our General Terms and Conditions as set out in our current Price Schedule.

CALIPER
HOLE DIAM. IN INCHES

DEPTHS

6" 16"

—.25 0 +.25
CORRECTION
GRAMS/CC.

GAMMA RAY
API UNITS

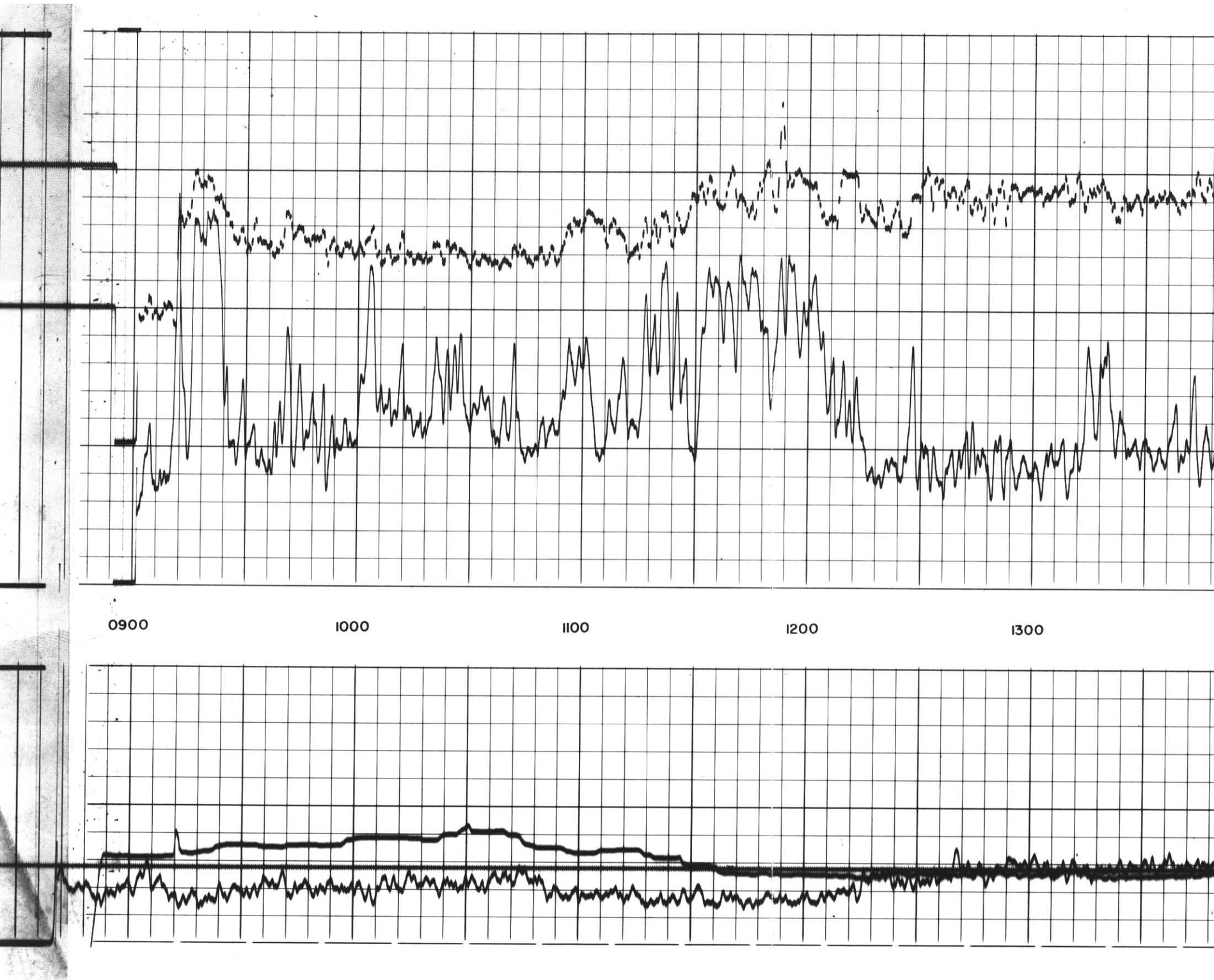
0 100

100 200

BULK DENSITY
GRAMS/CC.

2.0 2.5 3.0

1.5 2.0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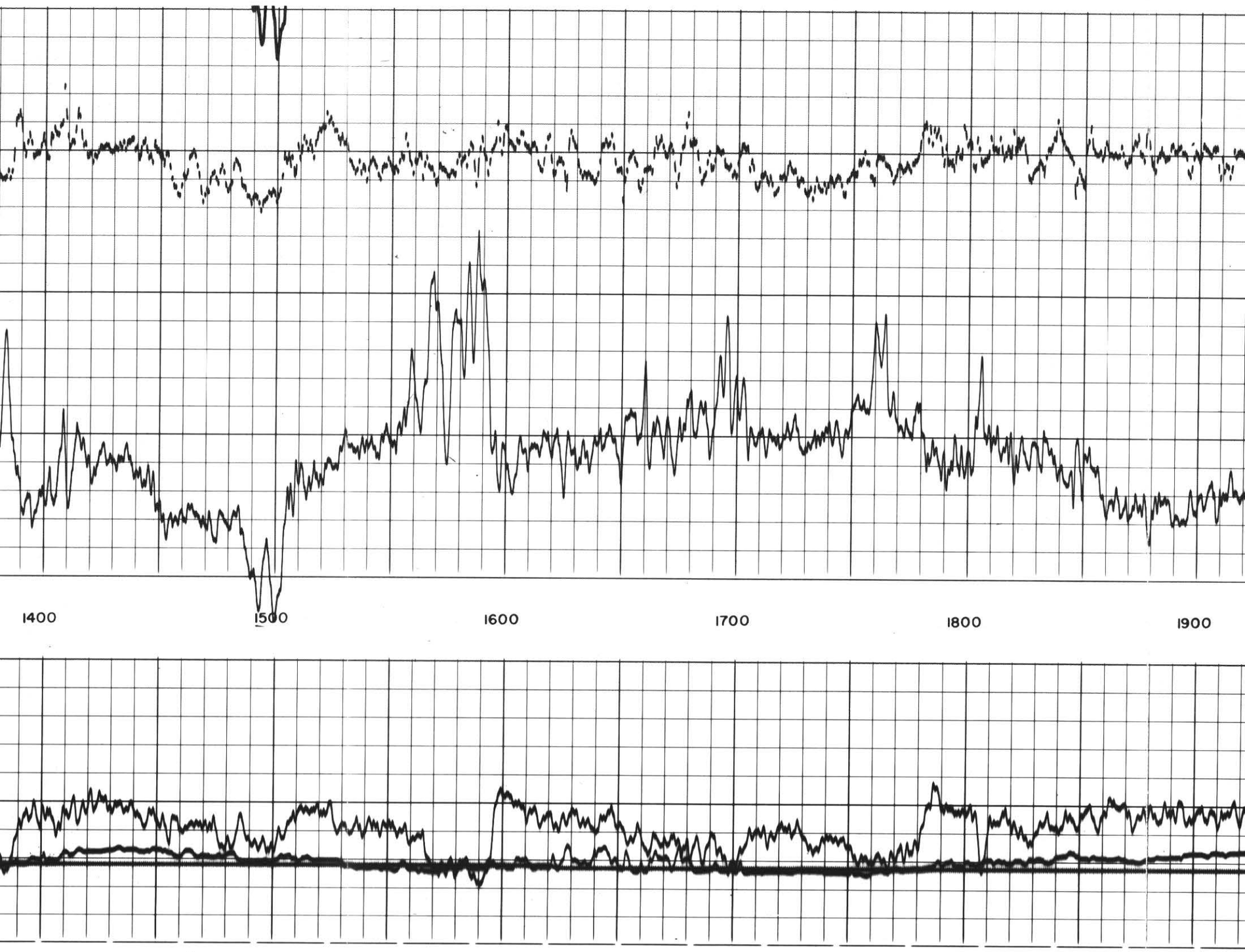
1000
1100
1200
1300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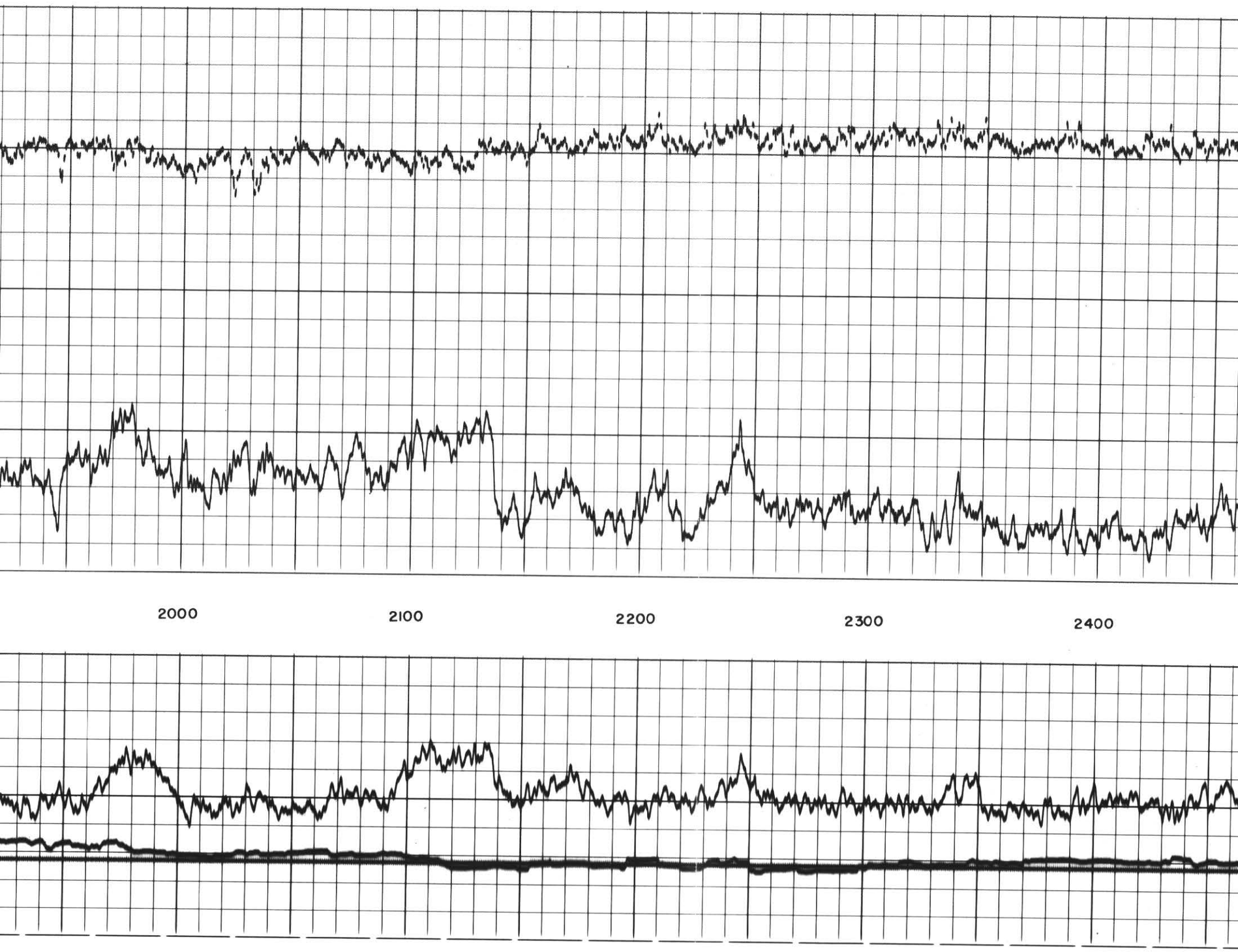
1600
1700
1800
1900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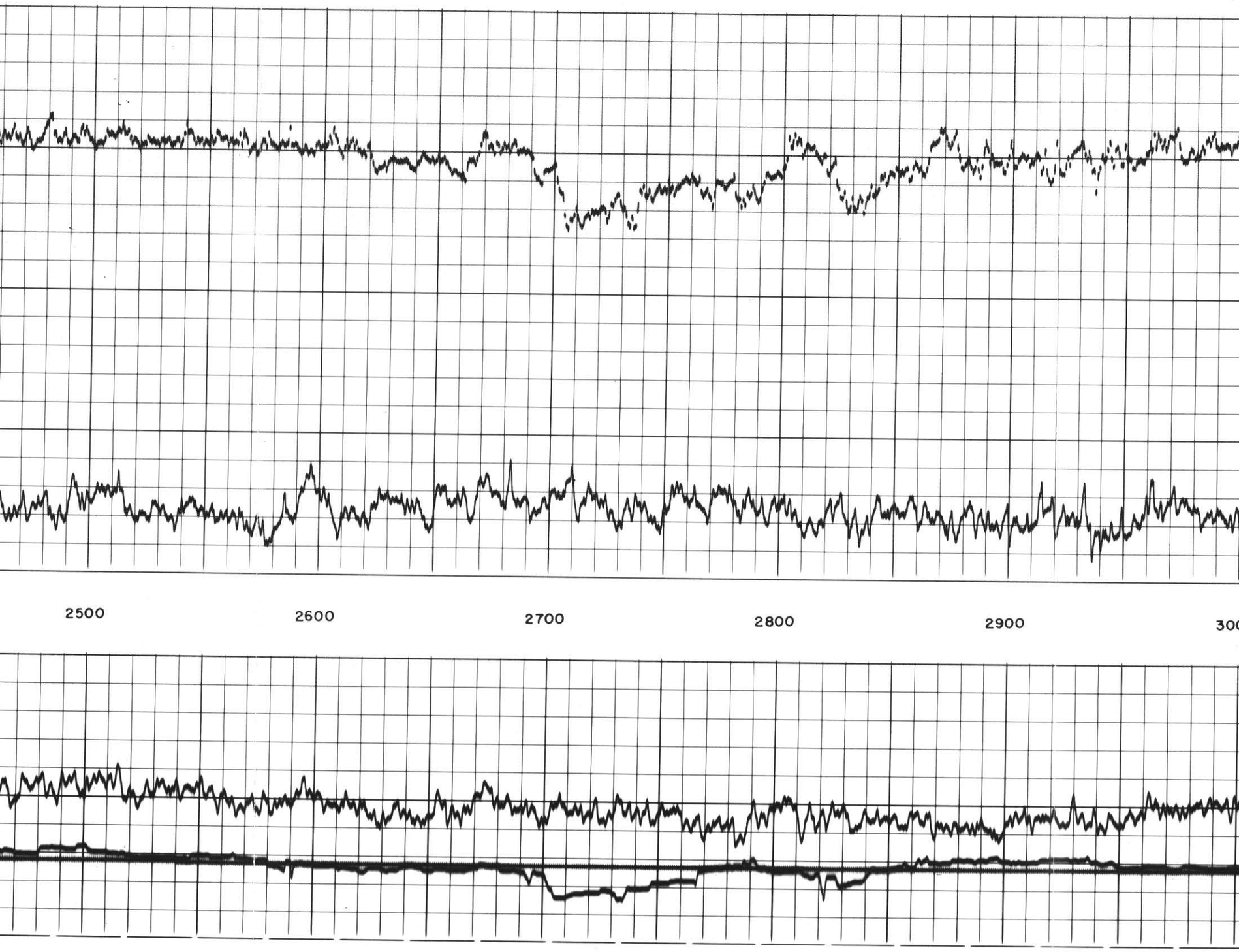
2100
2200
2300
2400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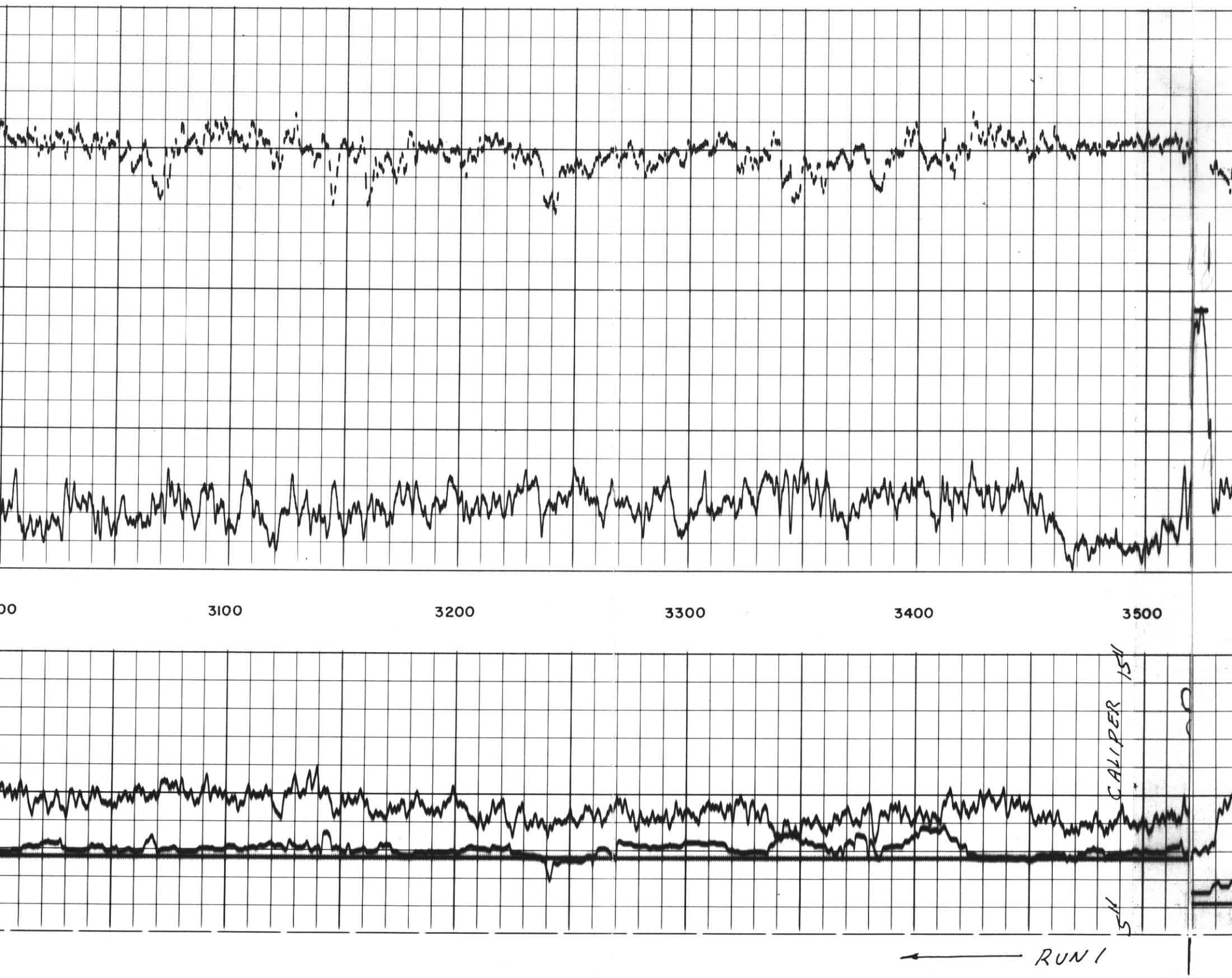
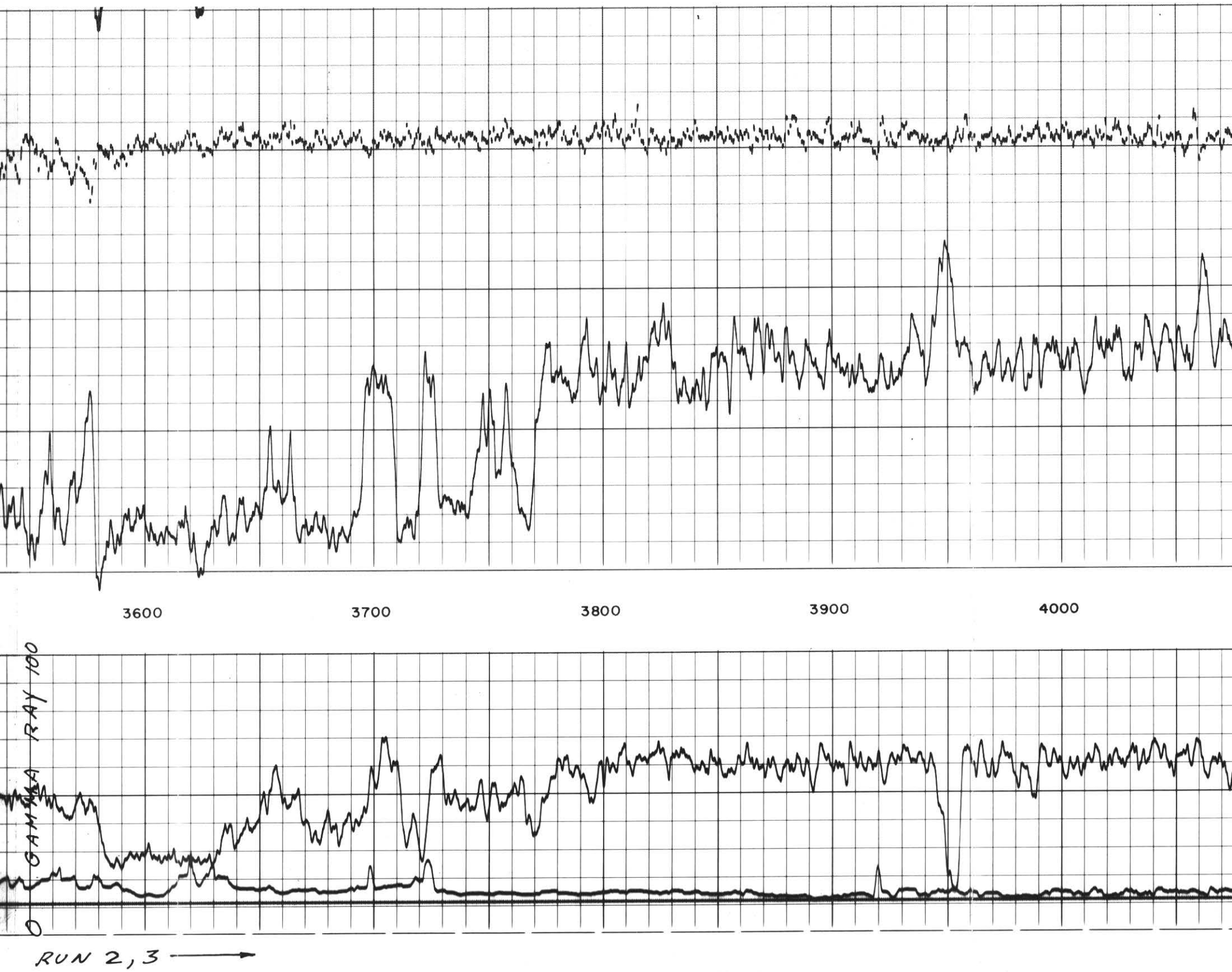
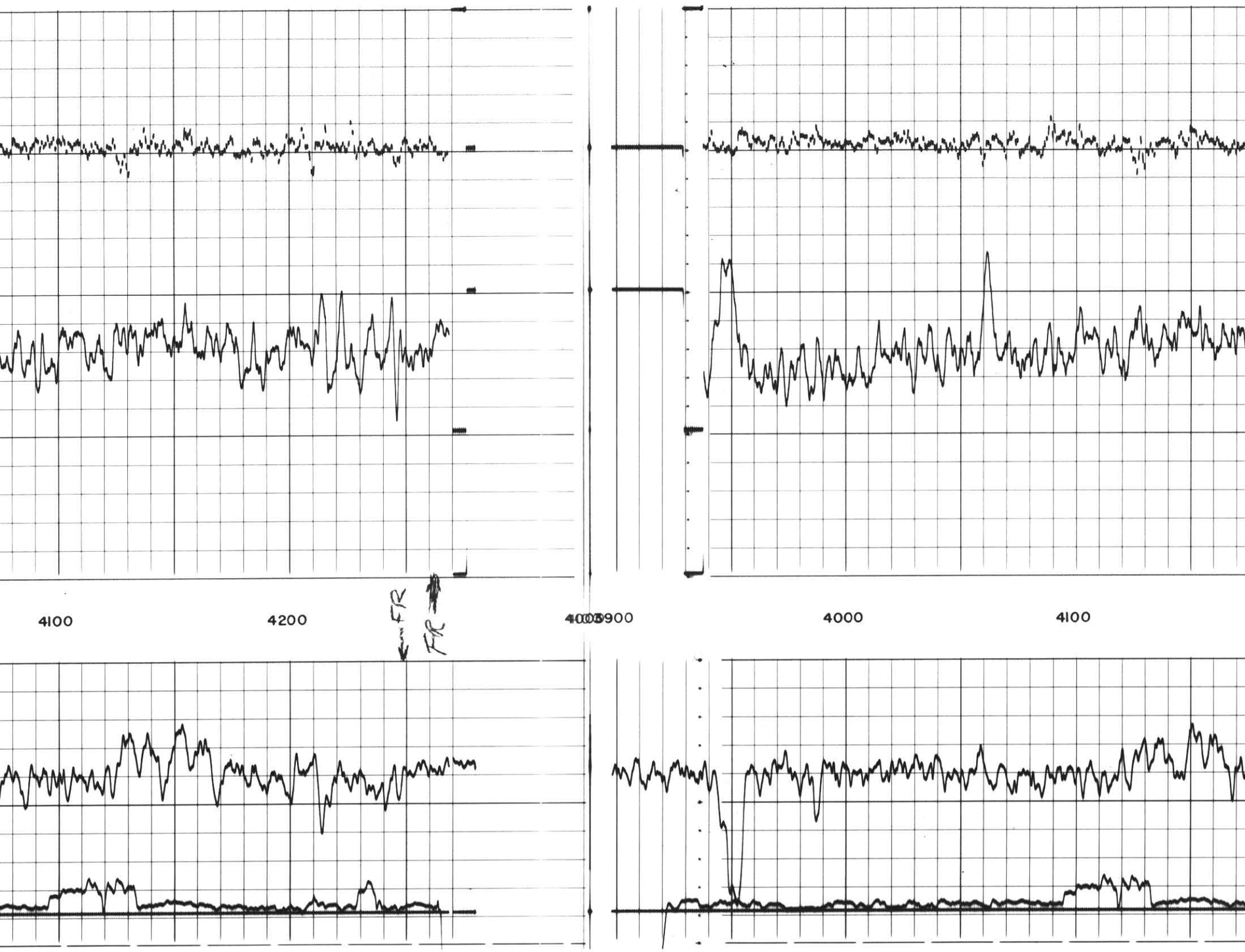
2600
2700
2800
2900
300


00
3100
3200
3300
3400
3500
CALIPER 15"
5"
RUN 1


3600
3700
3800
3900
4000
GAMMA RAY 100
0
RUN 2,3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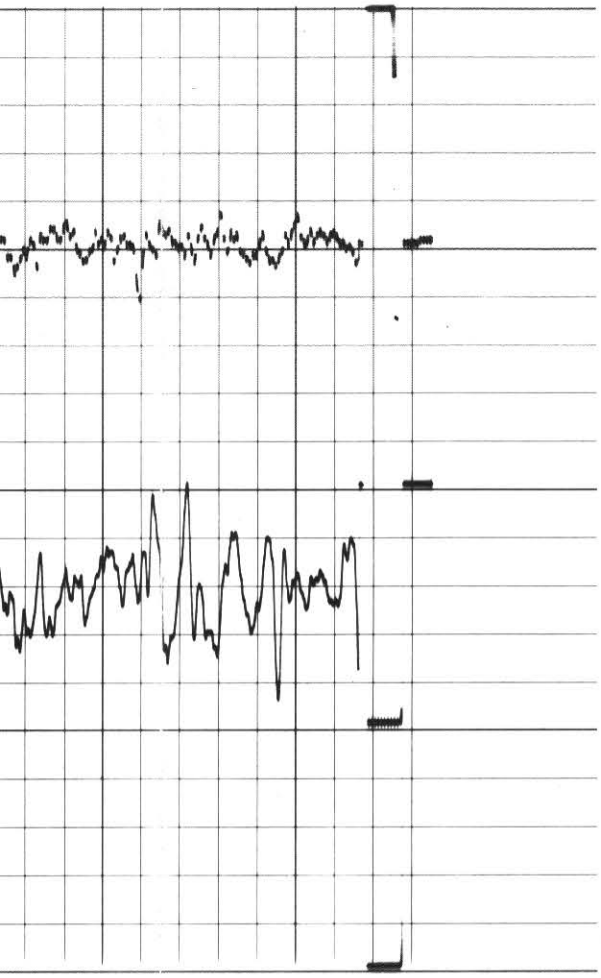
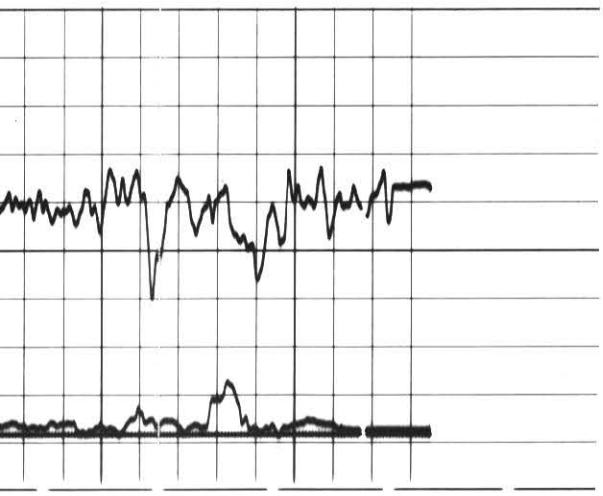
4200
FR
FR
4000
3900
4000
4100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