



Compensated Neutron

FILE NO. GL02624

COMPANY E.G. & G. IDAHO INC.

WELL RRGP - 4A

FIELD RAFT RIVER GEOTHERMAL

COUNTY CASSIA STATE IDAHO

LOCATION:

SEC 23 TWP 15 S RGE 26 E

Other Services
OIL/SP
EDC
BNC/CAL
DIFF. TEMP.
4 ARM CAL.
DIPLOG

Permanent Datum G.L. Elev. 4840
Log Measured from K.B., 16 Ft. Above Permanent Datum
Drilling Measured from K.B.

Elevations:
KB 4856
DF 4855
GL 4840

Date 10/20/78
Run No. TWO
Type Log CNLOG
Depth-Driller 5212
Depth-Logger 5224
Bottom Logged Interval 5220
Top Logged Interval 3474
Type Fluid in Hole WATER
Salinity Ppm Cl. -
Density Lb./Gal. -
Level FULL
Max. Rec. Temp. Deg. F 266 °F
Opr. Rig Time
Equip. No. and Location 6159 RSVT.
Recorded By PERESSINI
Witnessed By

Run No.	Bore Hole Record				Casing Record		
	Bit	From	To	Size	Wgt.	From	To
2	8 3/4"	3457	T.O.	9 5/8"	-	1512	3457
				13 3/8"	-	SURFACE	1512

FOLD HERE ↓

Remarks:

Equipment Used

Series No.	Run No.	S.O.	Tool No.	Elec. No.	Panel No.
2413	TWO	87825	29364	29364	37004
1306	TWO	87825	29364	24543	34481

Compensated Neutron

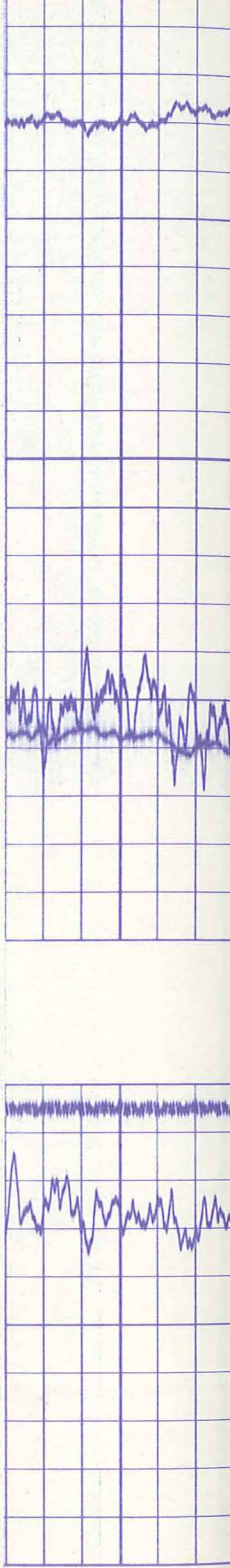
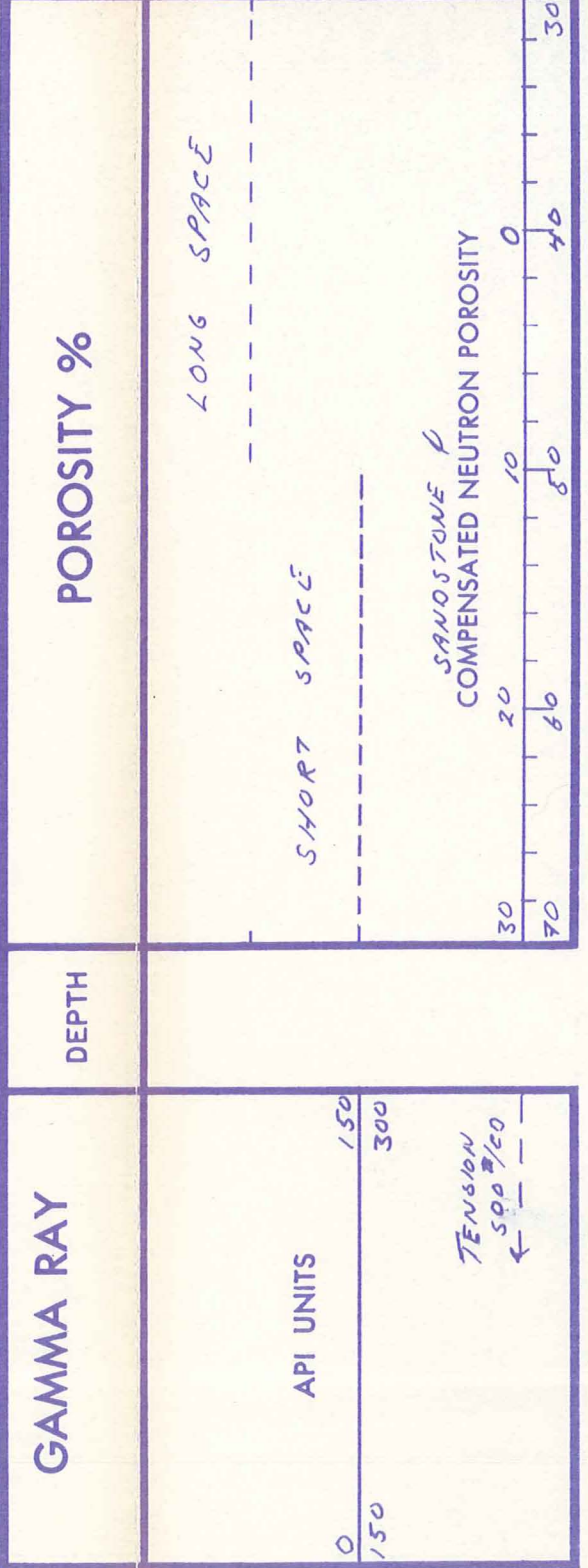
Run No.	Tool Model No.	Diam.	Detect. Model No.	Type	Length	Dist. to N. Source
TWO	1306	3 5/8"	0664	SCINT.	6"	6'

Equipment Data

Run No.	Log Type	Tool Model No.	Serial No.	Diam.	Detect. Model SS	Detect. Model LS	Source Model No.	Serial No.	Type
TWO	CNLOG	2413	29364	3 5/8"	06N3	06N3	S17S20	30431	AM-B0

Logging Data

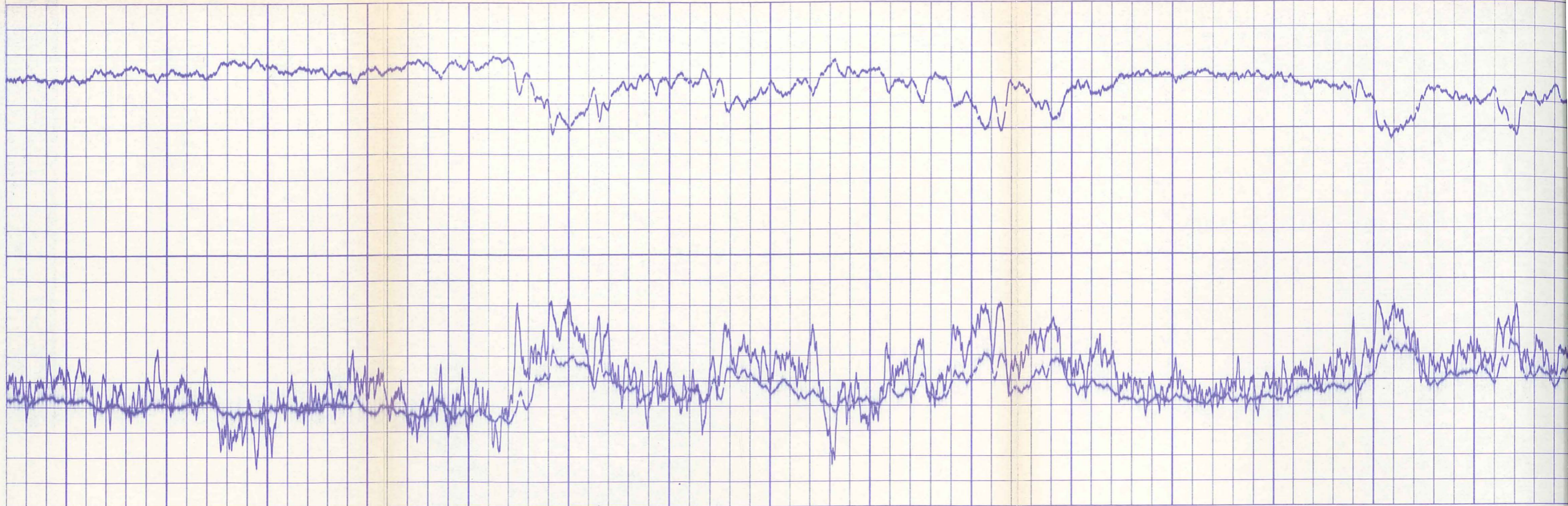
Run No.	General		Compensated Neutron				Gamma Ray							
	From	To	Speed Ft./Min.	T.C.	SS	LS	SS	LS	SS	Zero Div. L or R	API G.R. Units/Div.			
2			30	2	2	2	148	138	R-15	2	0-30	632	0	15



COMPENSATED NEUTRON POROSITY

STAINSTONE ρ

30
40
0
10
20
30
50
60
70



3300

3400

3500

3600

3700

3800

3900

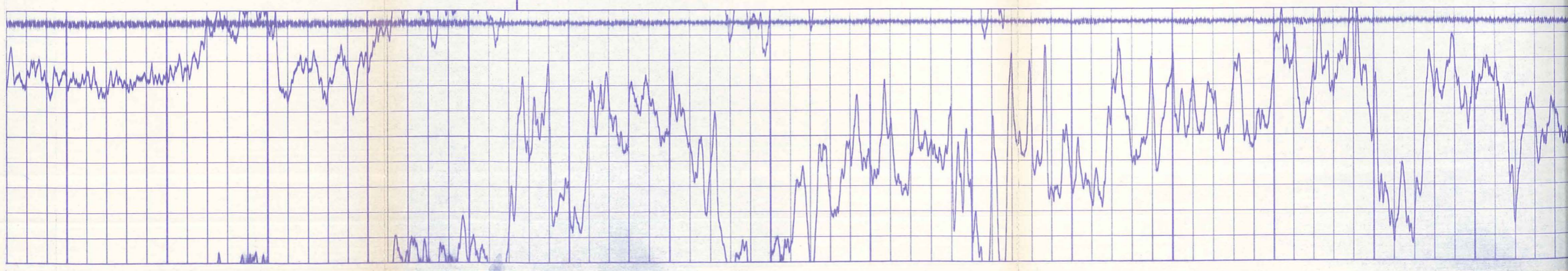
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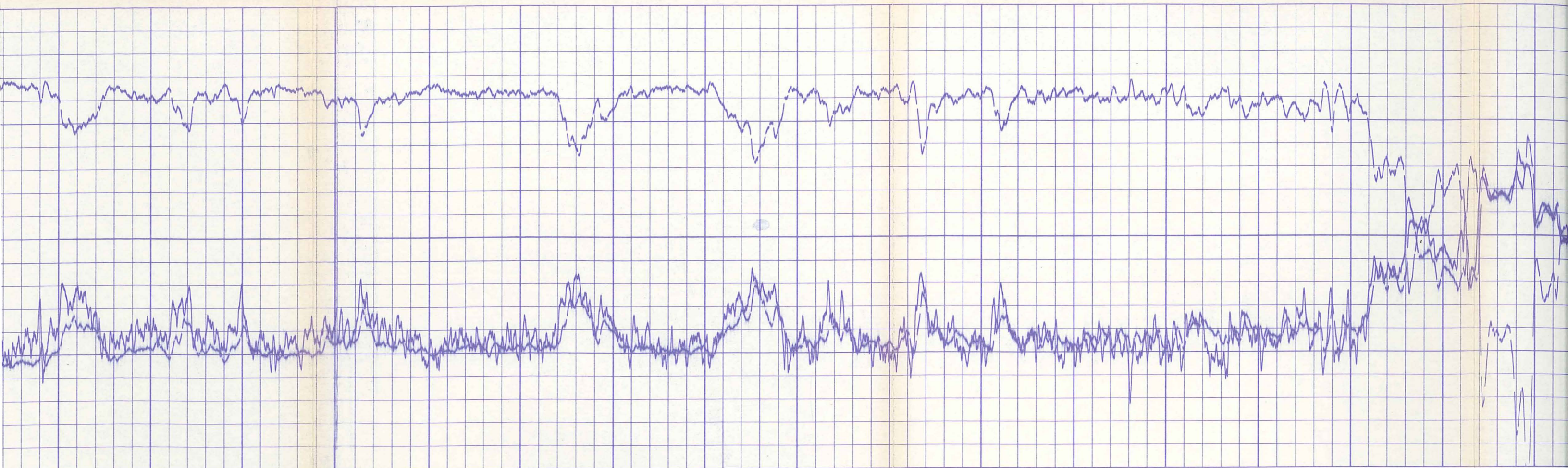
TENSION

500 ψ /CO

300

150





3900

4000

4100

4200

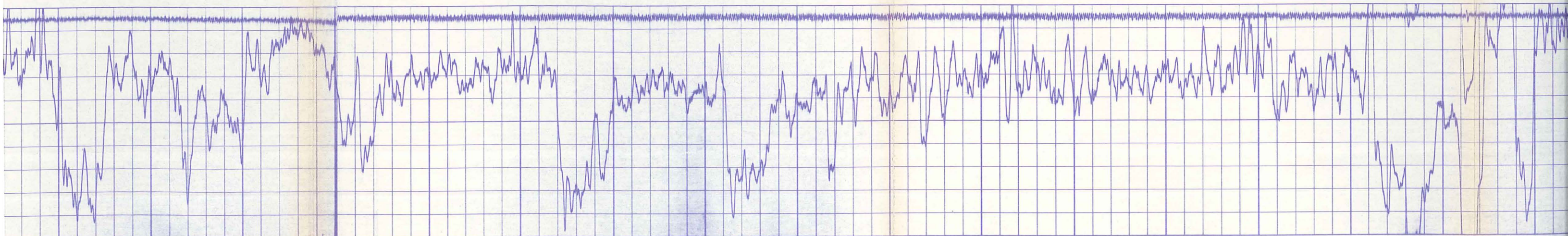
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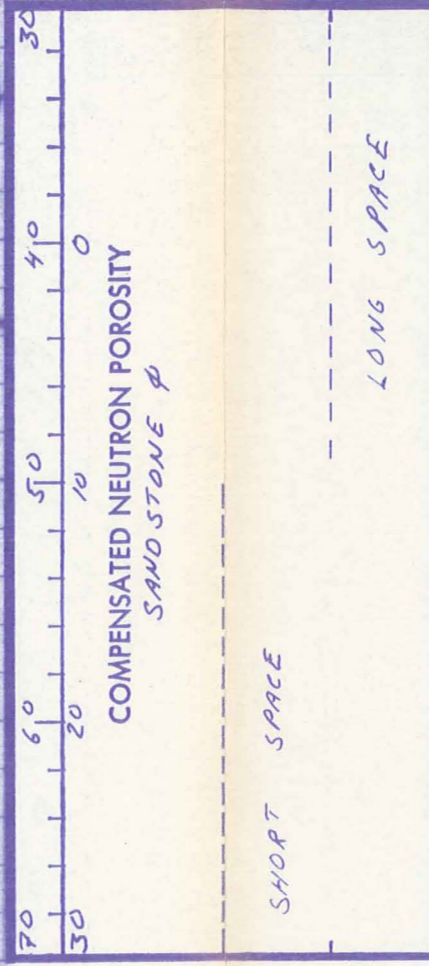
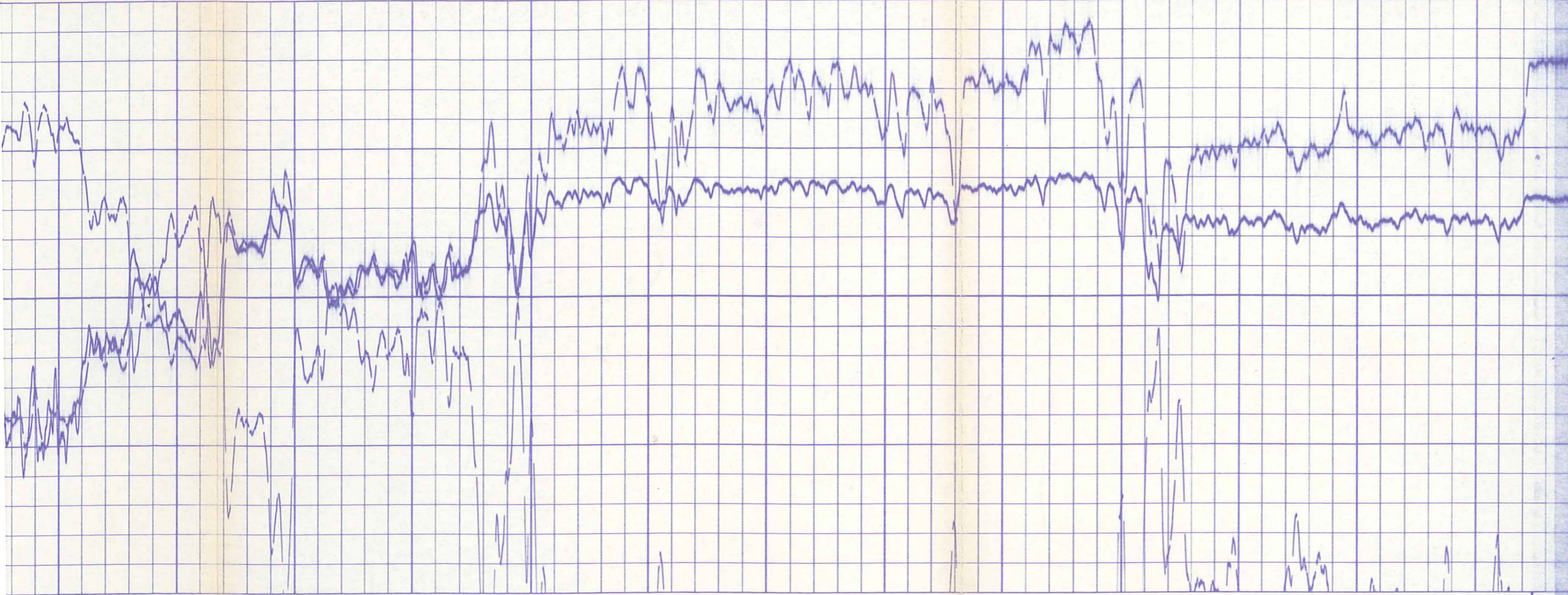
4400

4500

4600

4700





COMPENSATED NEUTRON POROSITY
SANDSTONE ϕ

DEPTH

GAMMA RAY

Company E.G. & G. IDAHO INC.
Well RRG P - 4A

Drillers T.D. 5212
Log F.R. 5220

4600 4700 4800 4900 5000 5100 5200

← 500 #/sq
TENSION

150 0 300 150

API UNITS

GAMMA RAY

DEPTH

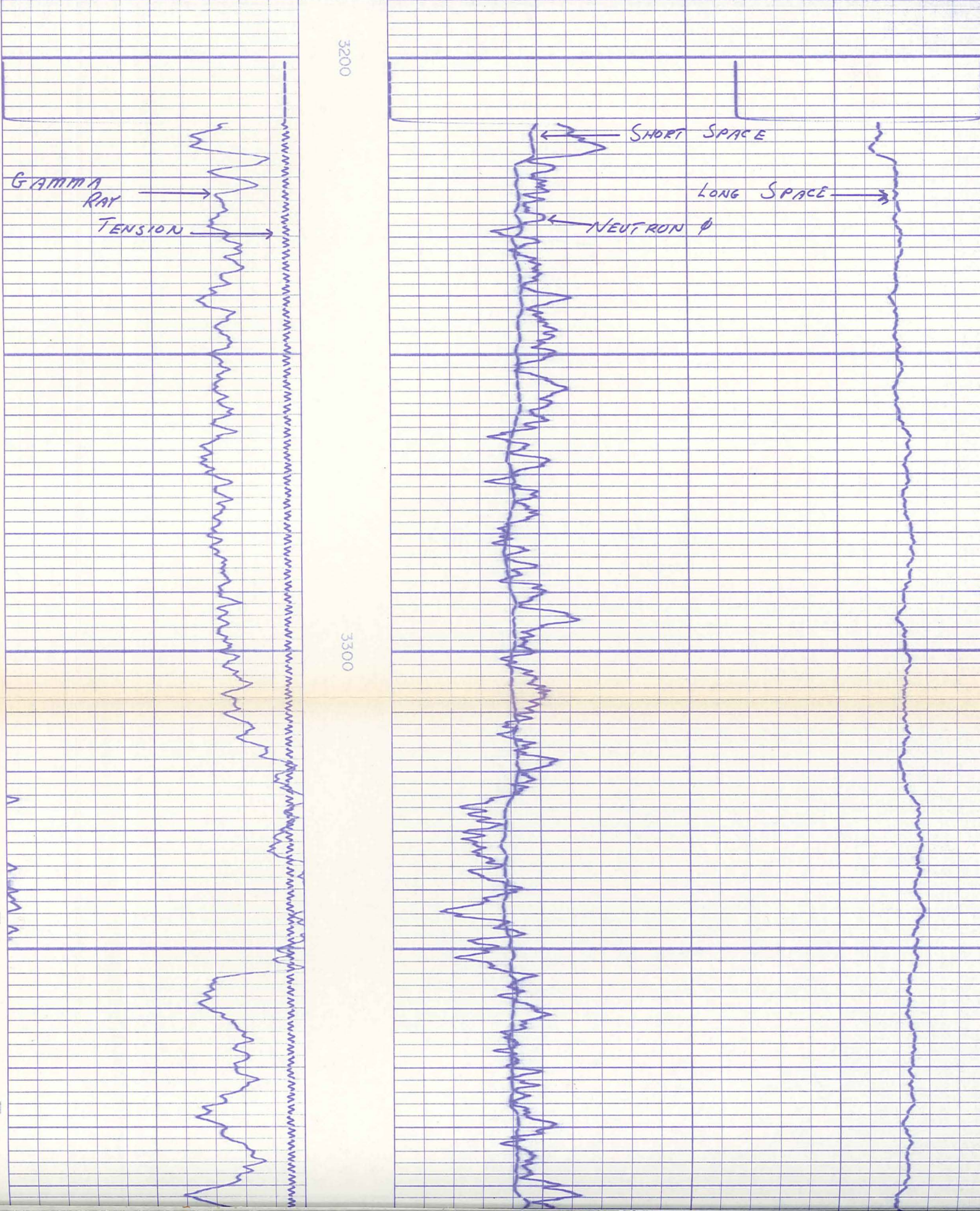
POROSITY %

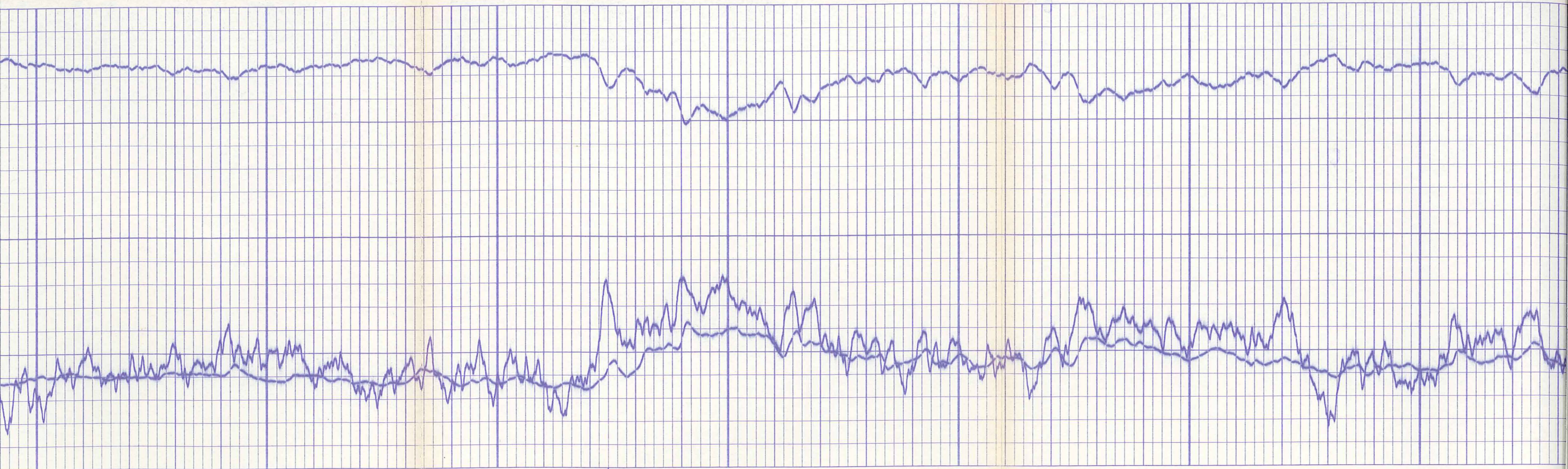
SHORT SPACE

LONG SPACE

API UNITS 0 150 300	SHORT SPACE	LONG SPACE
GAMMA RAY	DEPTH	POROSITY %
Company E.G. & G. IDAHO INC. Well RRGP-4A Field RAFT RIVER GEOTHERMAL County CASSIA State IDAHO		Drillers T.D. 5212 Log F.R. 5220 Log T.D. 5224 Elevations: K.B. 4856 D.F. 4855 G.L. 4840

GAMMA RAY	DEPTH	POROSITY %
API UNITS 0 150 300		LONG SPACE
		SHORT SPACE
TENSION 500 F/CD		SANDSTONE ϕ COMPENSATED NEUTRON POROSITY
		30 20 10 0 40 30 70 60 50

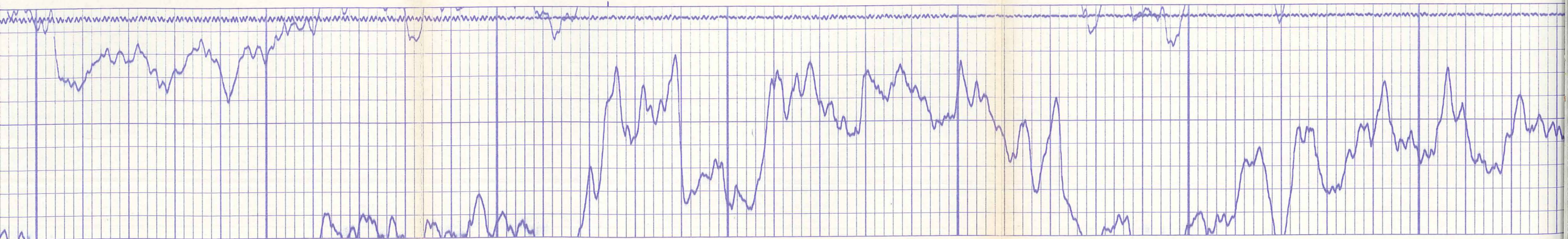


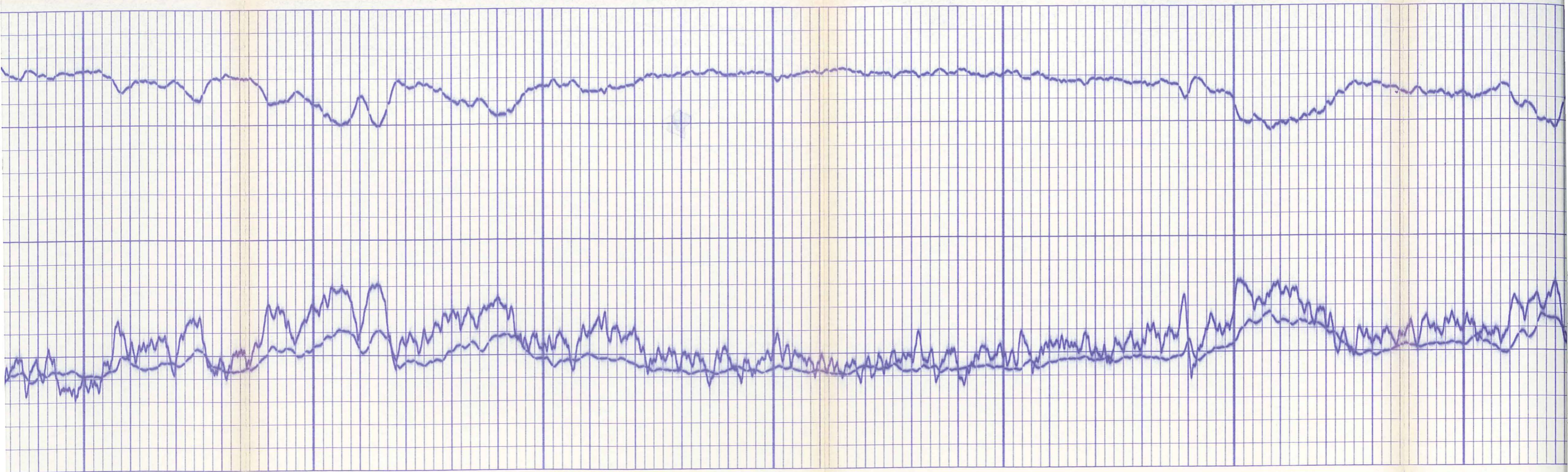


3400

3500

3600

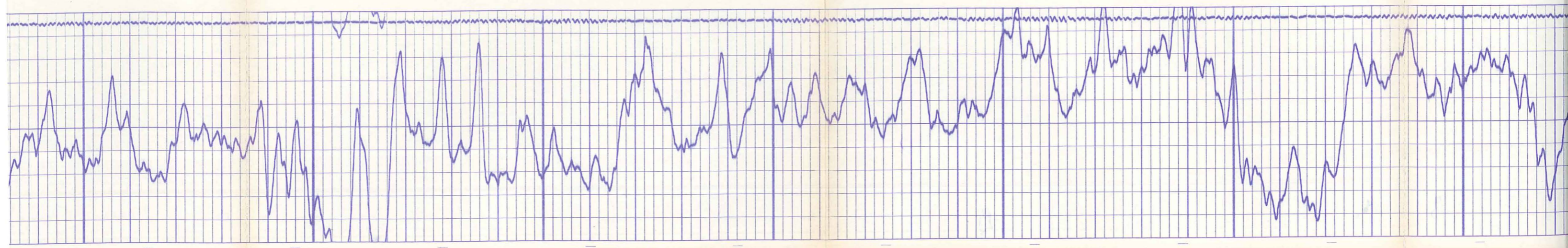


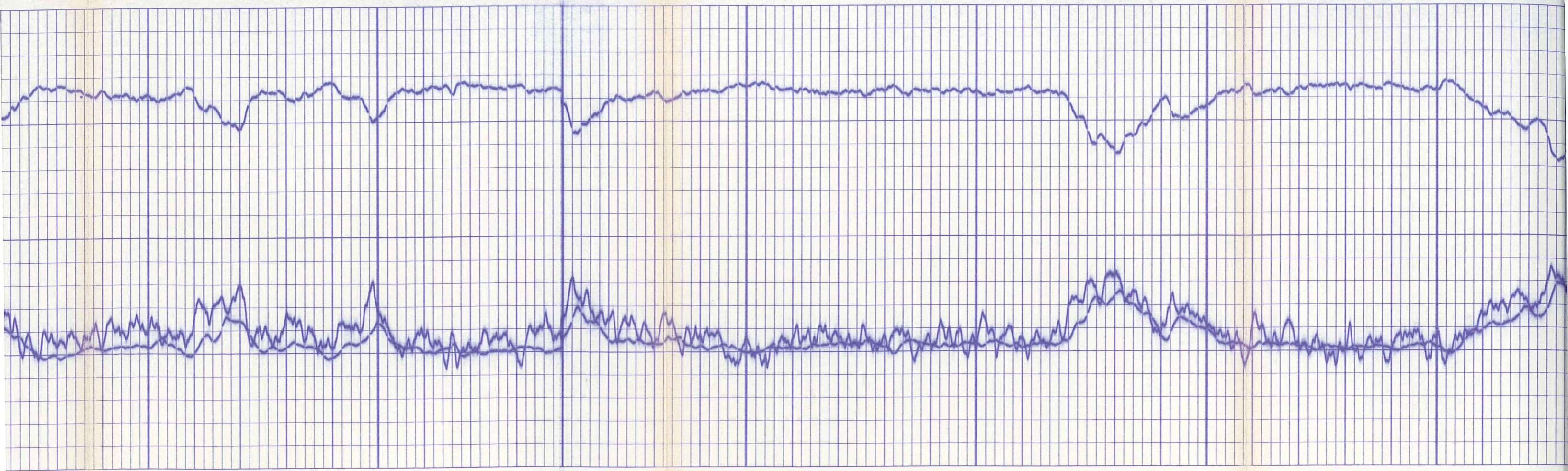


3700

3800

3900

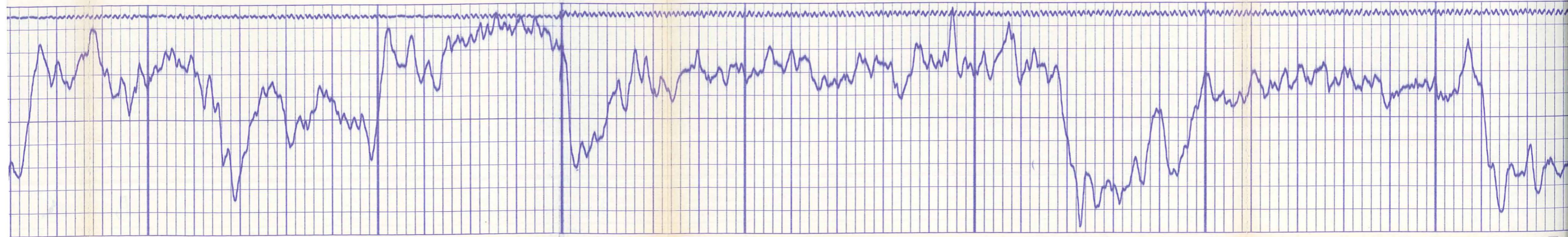


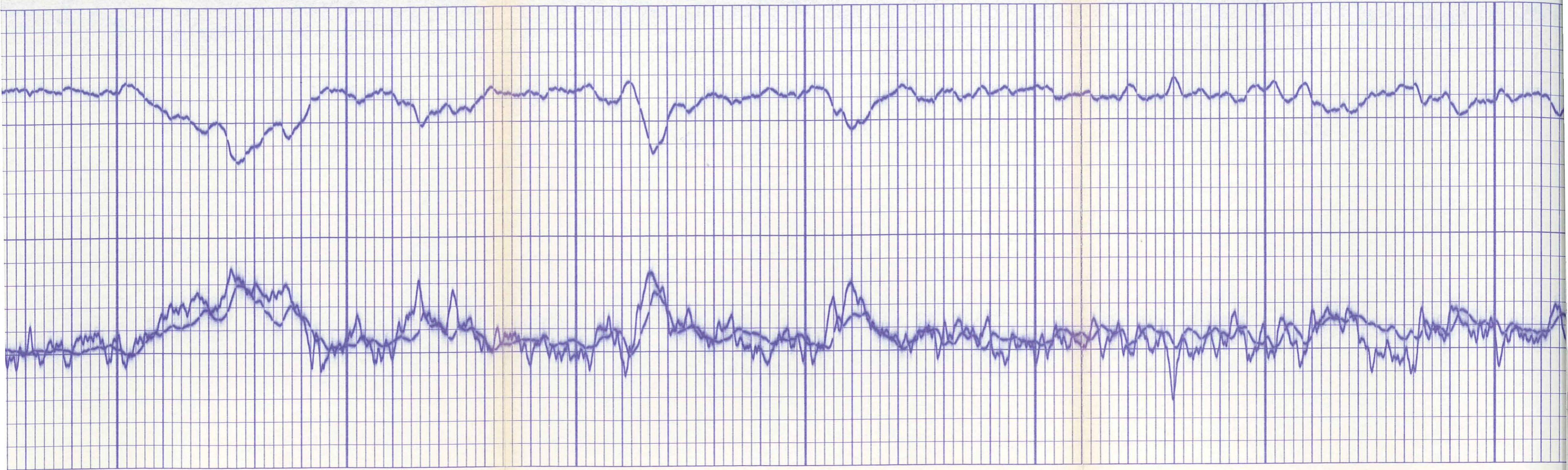


4000

4100

4200

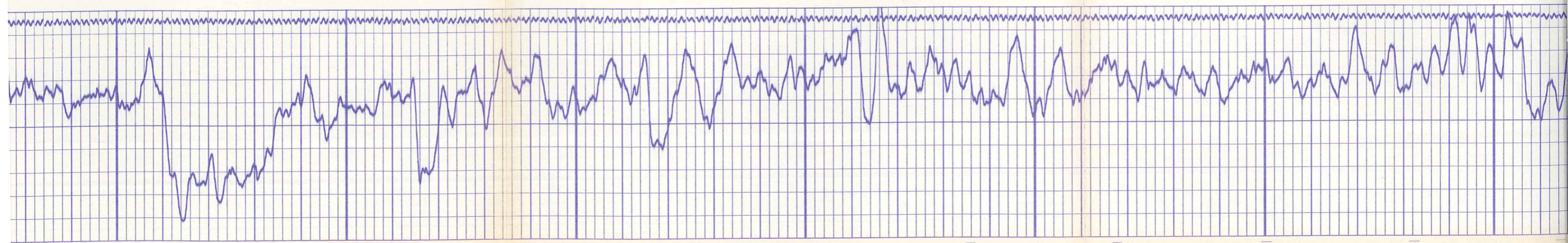


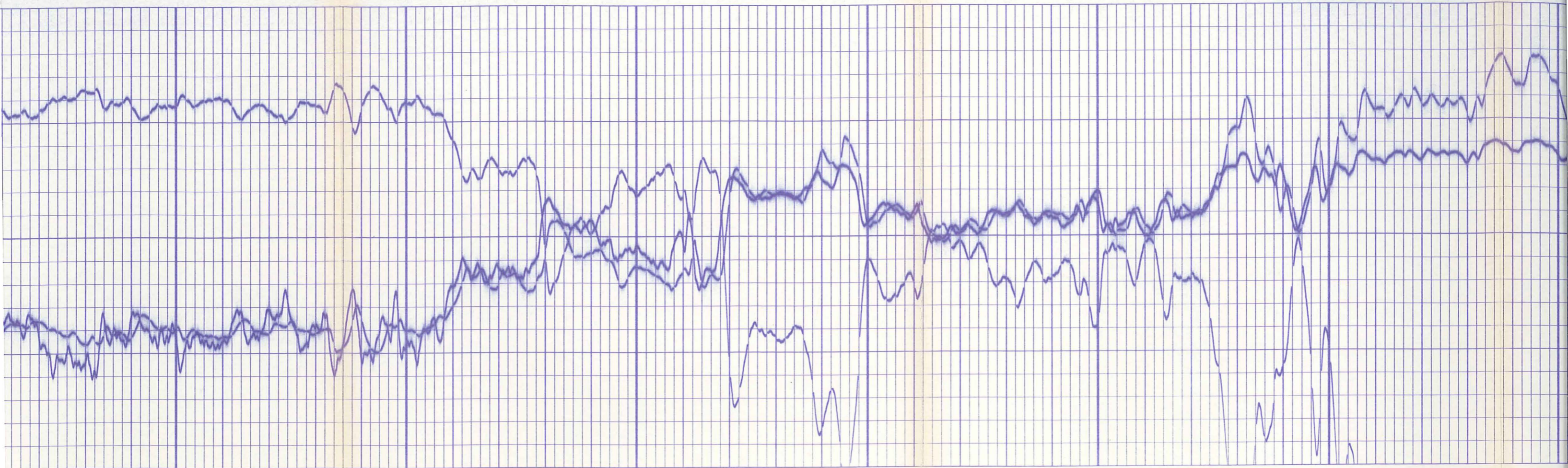


4300

4400

4500

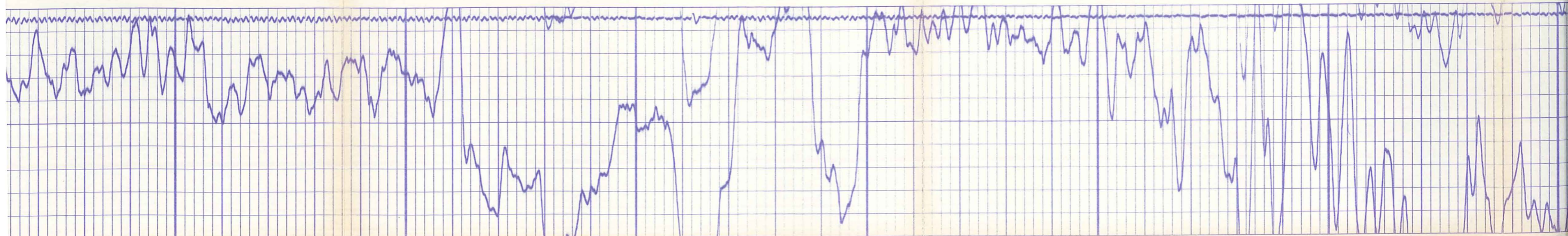


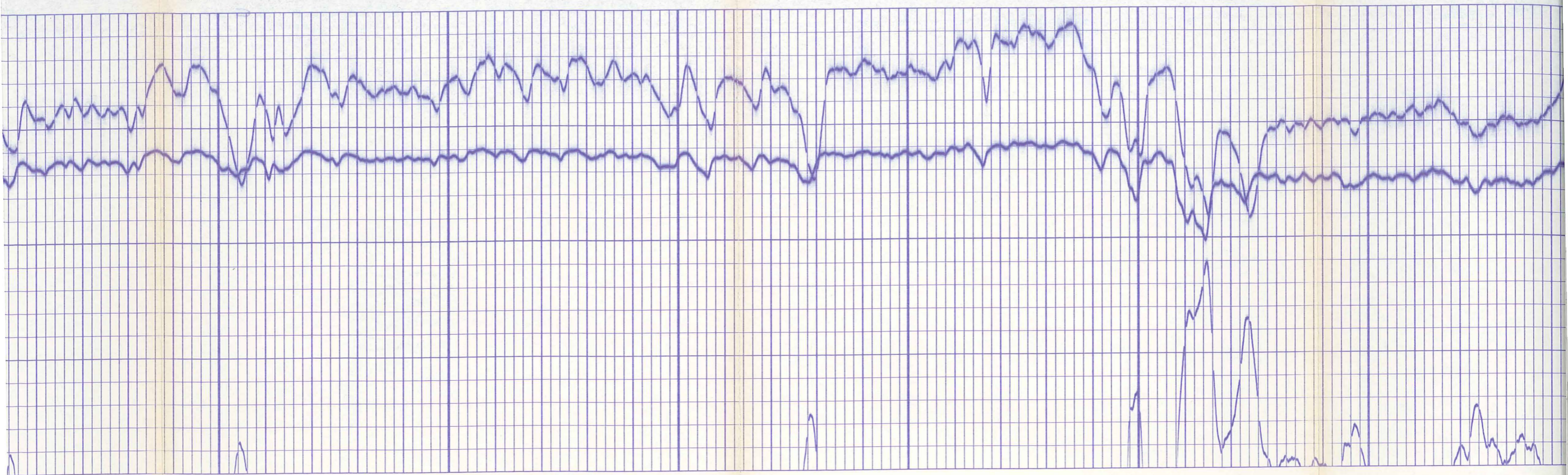


4600

4700

4800

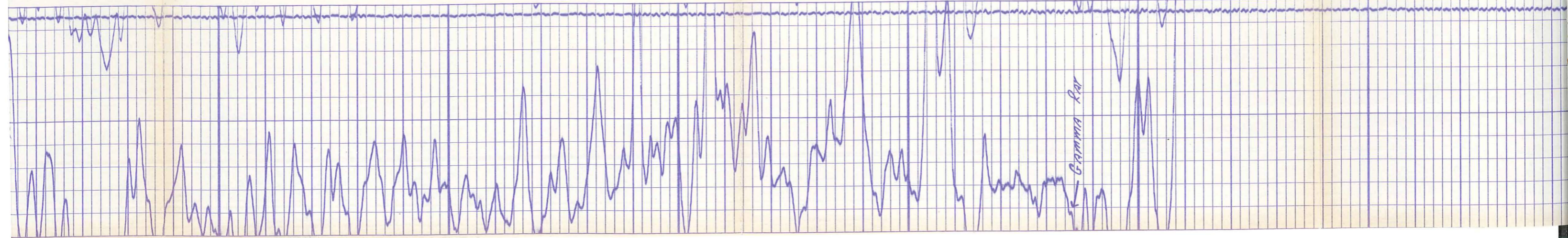




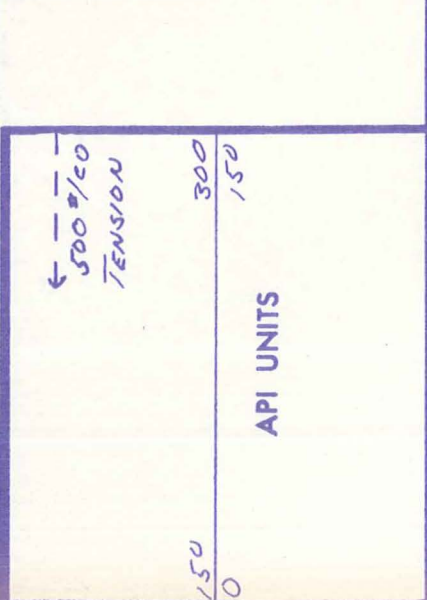
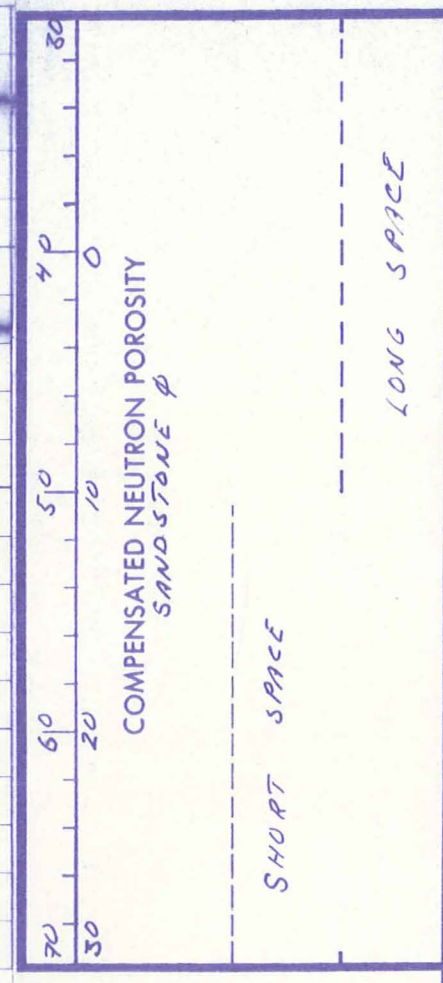
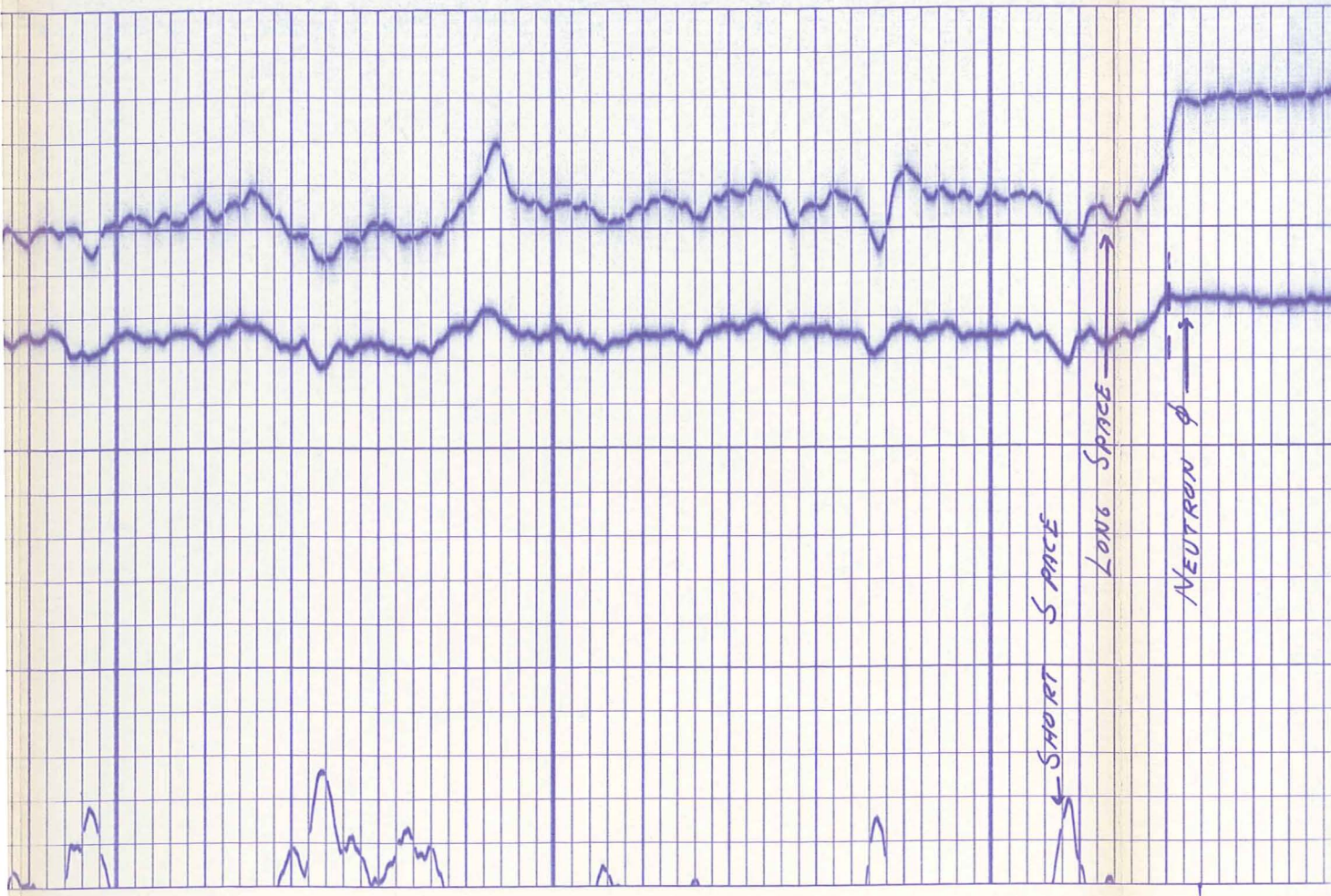
4900

5000

5100



K-Gamma Ray



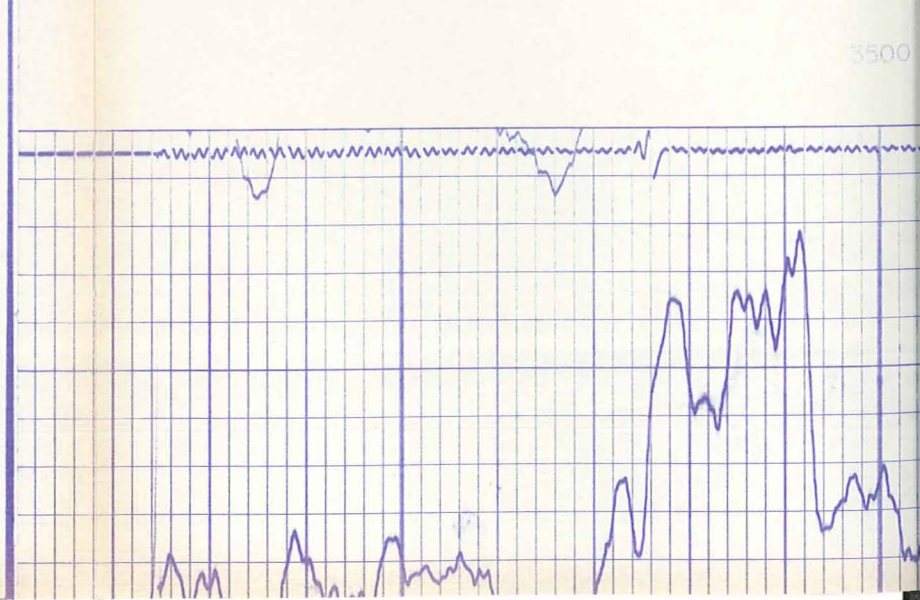
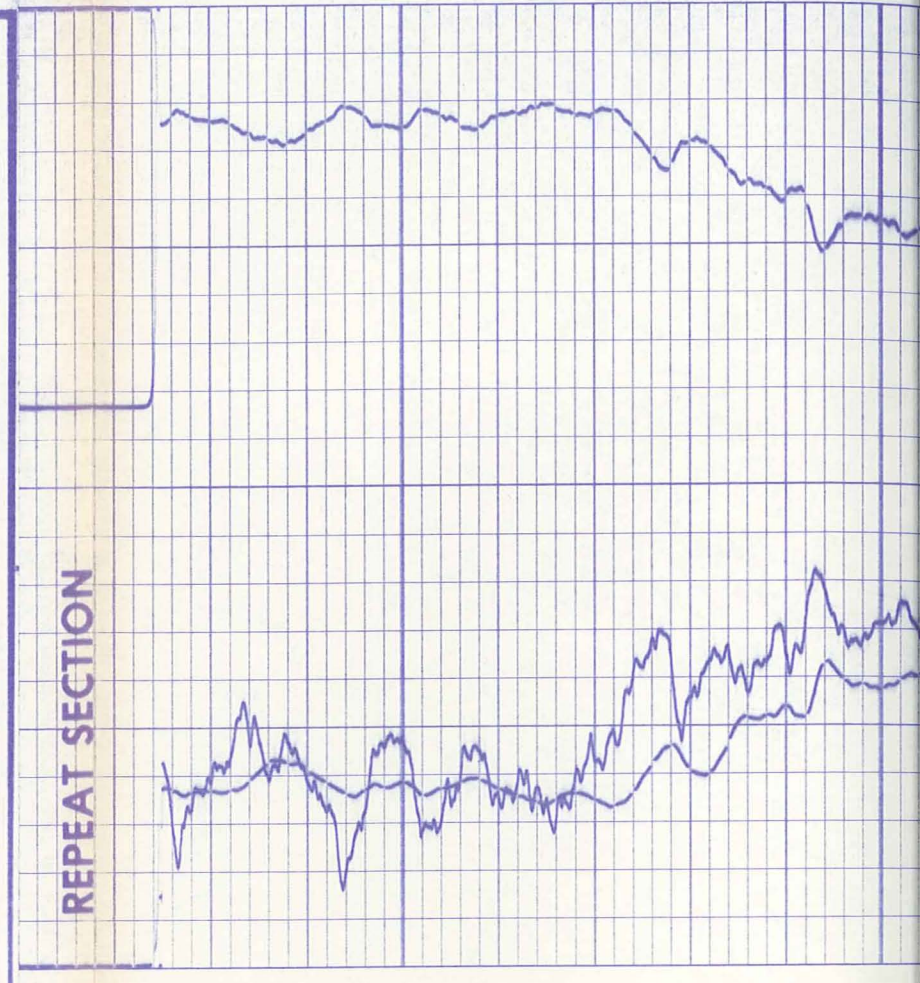
GAMMA RAY

POROSITY %

Company *E.G. & G. IDAHO INC.*
 Well *RRGP-4A*
 Field *RAFT RIVER GEOTHERMAL*
 County *CASSIA*
 State *IDAHO*

Drillers T.D. *5212*
 Log F.R. *5220*
 Log T.D. *5224*

Elevations:
 K.B. *4856* D.F. *4855* G.L. *4840*

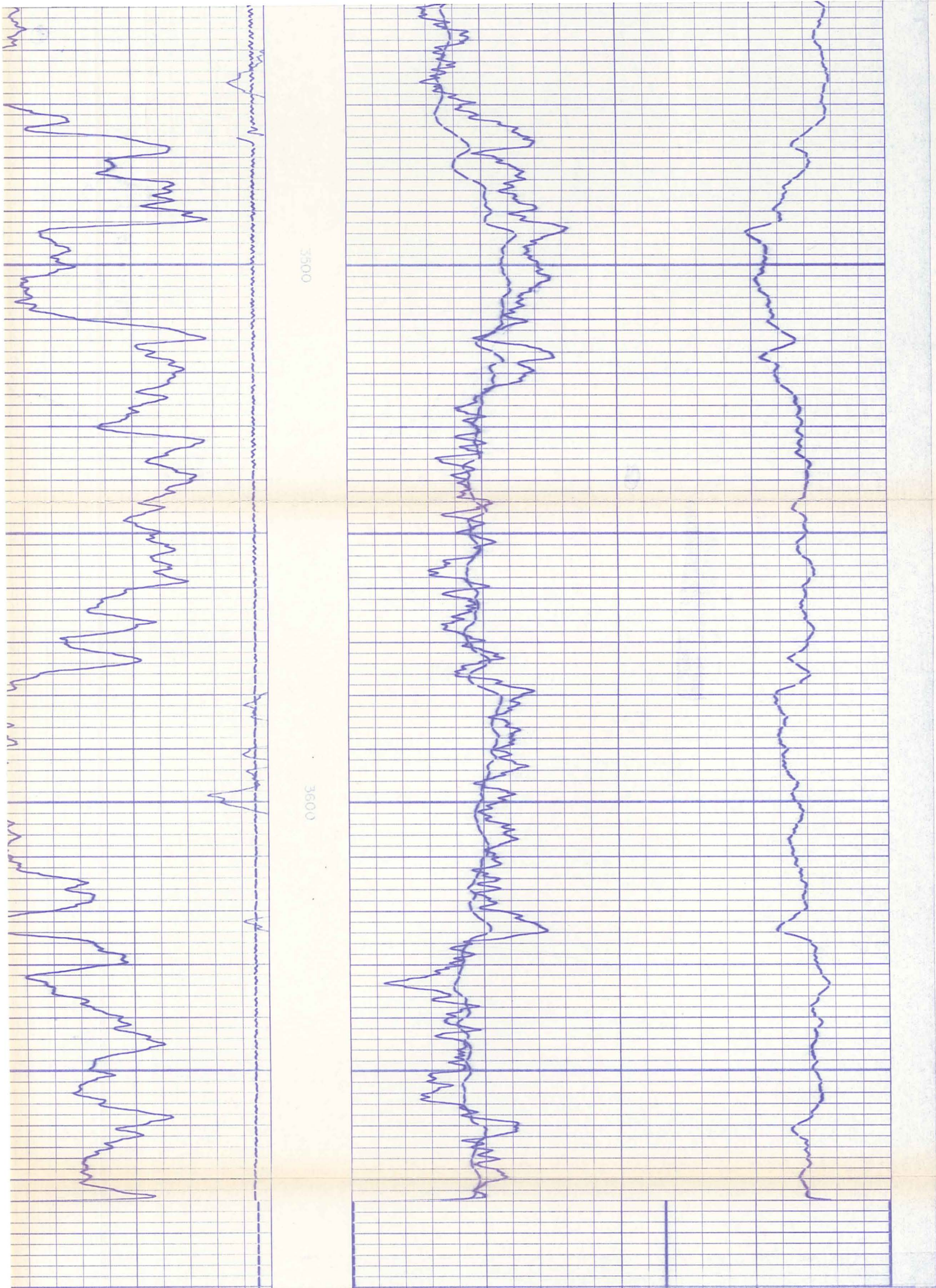


5100

5200

3500

REPEAT SECTION



CALIBRATION

COMPENSATED NEUTRON

1. MECHANICAL ZERO
2. PANEL—LOW
3. PANEL—HIGH
4. COUNT RATE METER
5. COMPUTER CHECK
6. COMPENSATED NEUTRON

925273 CN LOG

CALIBRATION

GAMMA RAY

1. MECHANICAL ZERO

925273 GR

CALIBRATION

GAMMA RAY

928275 GR

1. MECHANICAL ZERO
2. PANEL—LOW
3. PANEL—HIGH
4. COUNT RATE METER
5. BACKGROUND READING
6. GAMMA RAY—HIGH

API UNITS OF CALIB. STD. 185
SENSITIVITY READING 200
MULTIPLIER x 1
ZERO SUPPRESSION 0
TIME CONSTANT 2
MEASURED CHART DIVISIONS 3.75

CALIBRATION BEFORE SURVEY

6

4

3

2

1

CALIBRATION AFTER SURVEY

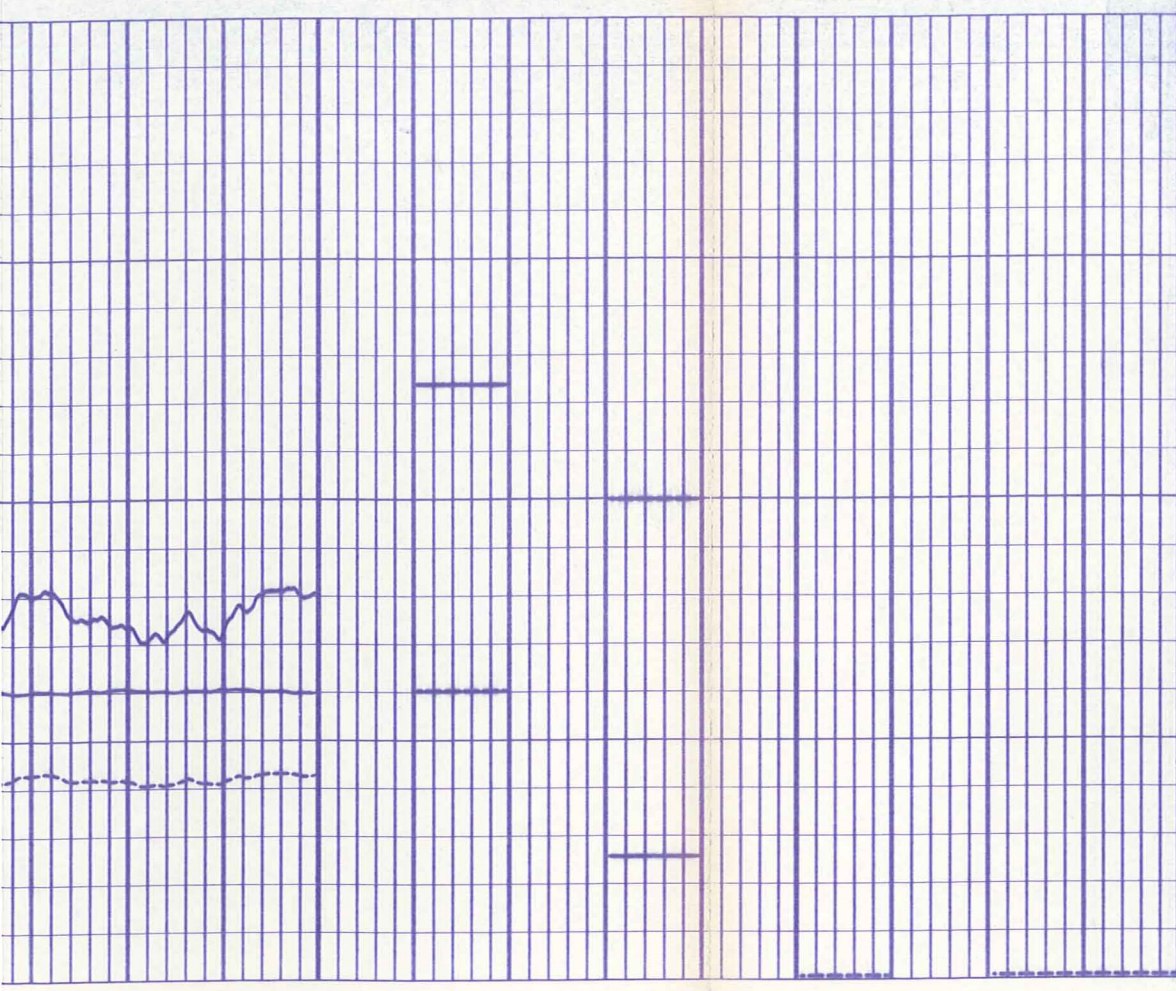
6

4

3

2

1



6

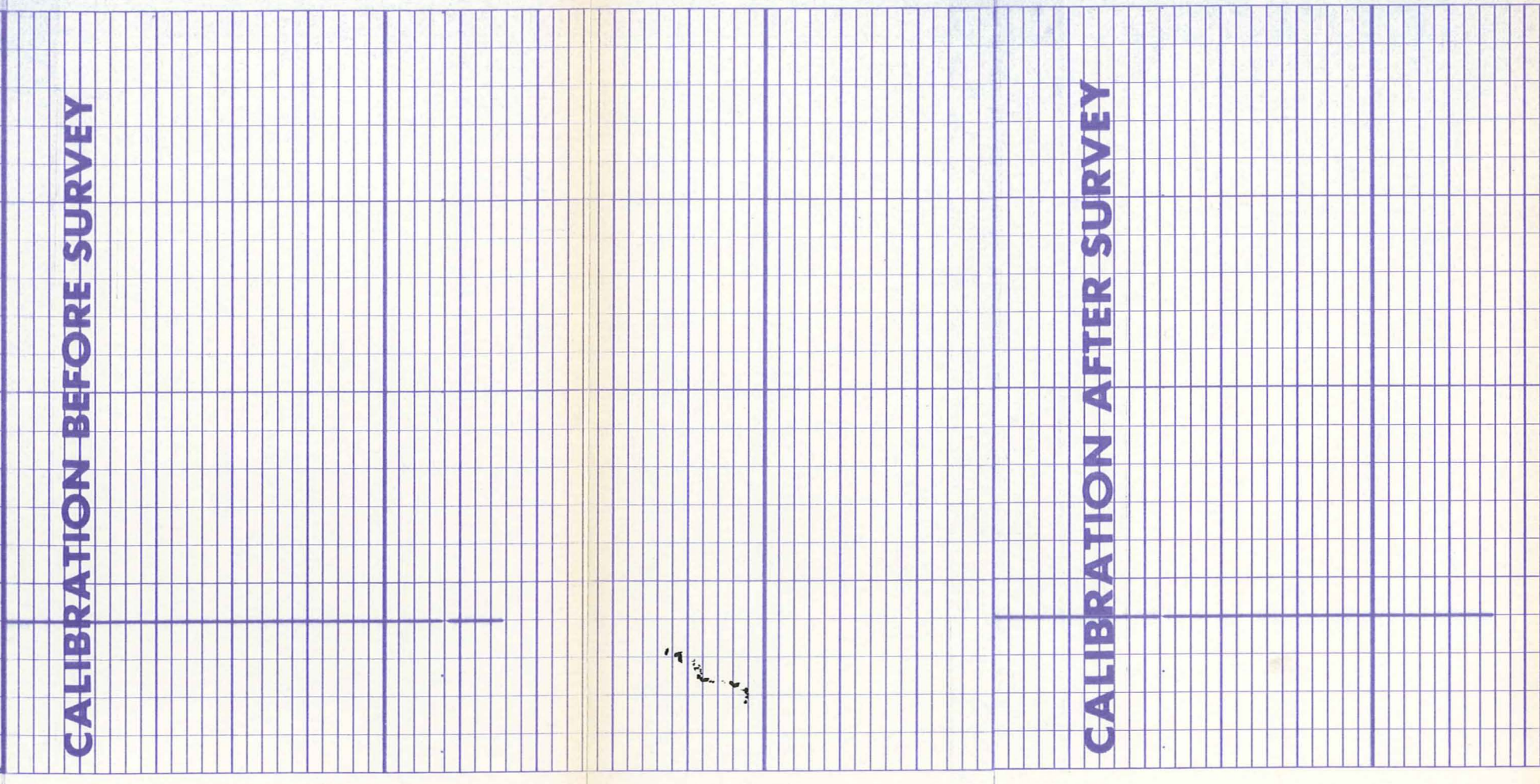
4

3

2

1

CALIBRATION BEFORE SURVEY

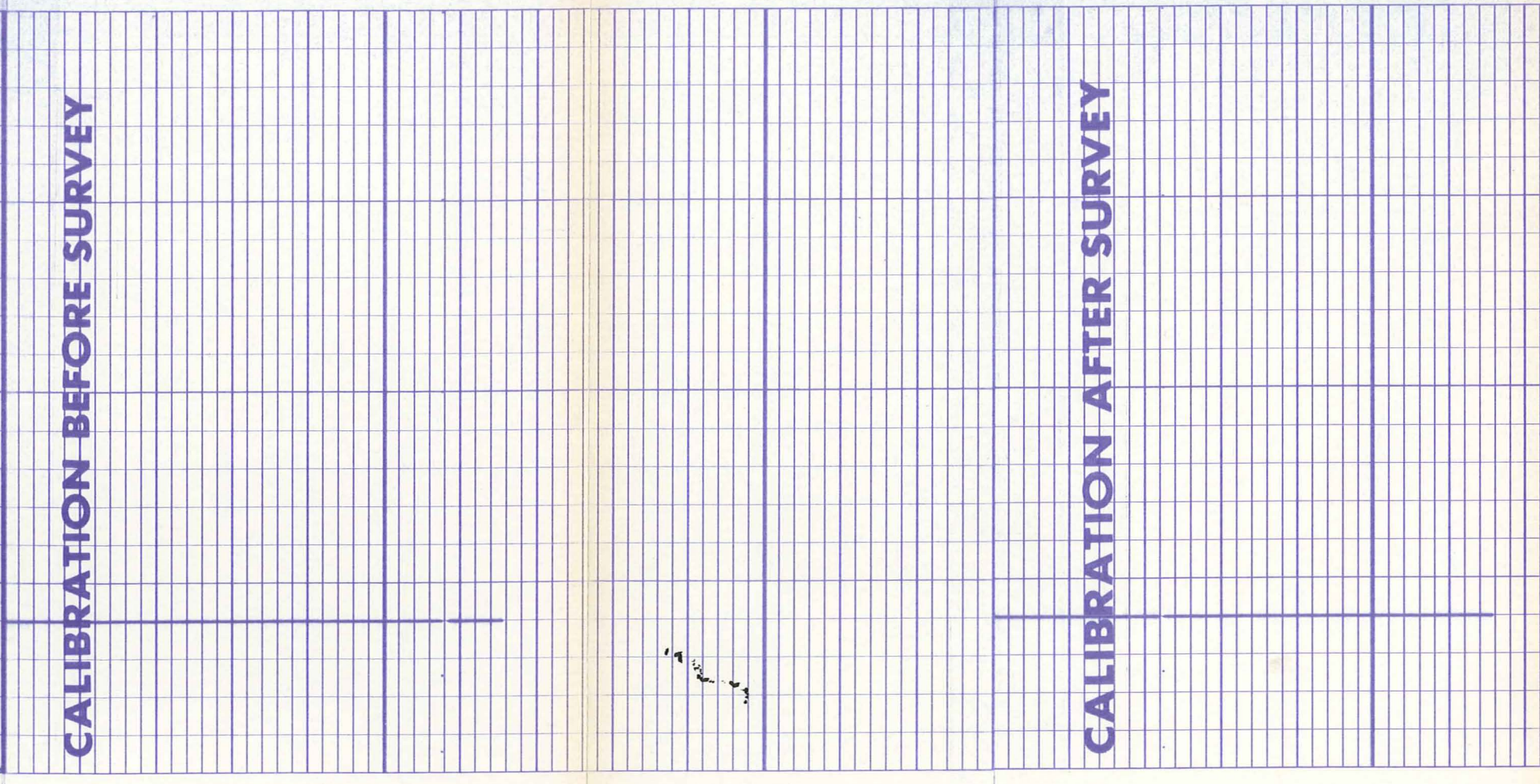


6

5

1

CALIBRATION AFTER SURVEY



6

5

1