



Compensated Neutron

FILE NO. 541

COMPANY E. G. & G. IDAHO INC.

WELL R.R.G.I. #7

FIELD RAFT RIVER GEOTHERMAL

COUNTY CASSIA STATE IDAHO

LOCATION: SEC 23 TWP 15S RGE 26E

Other Services  
DIFL  
BHC/GR  
DIFF. TEMP

Permanent Datum G.L. Elev. 4855

Log Measured from K.B. 16 Ft. Above Permanent Datum

Drilling Measured from K.B.

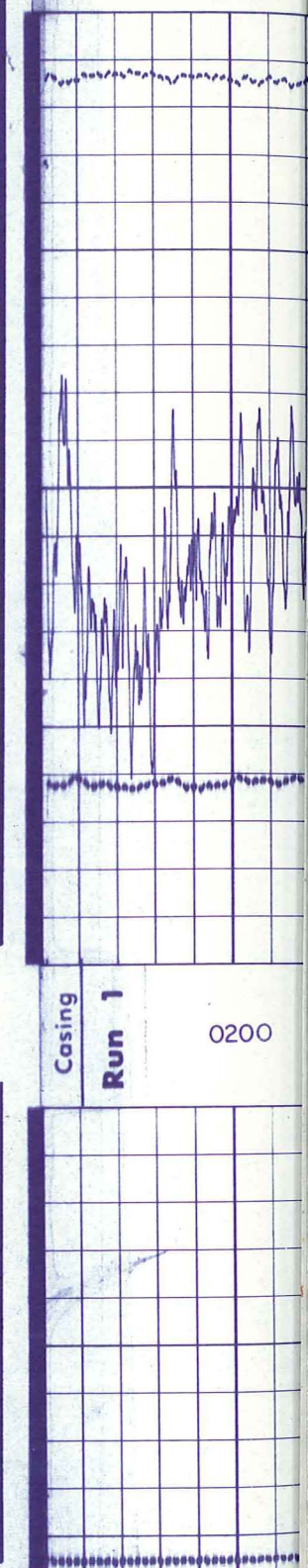
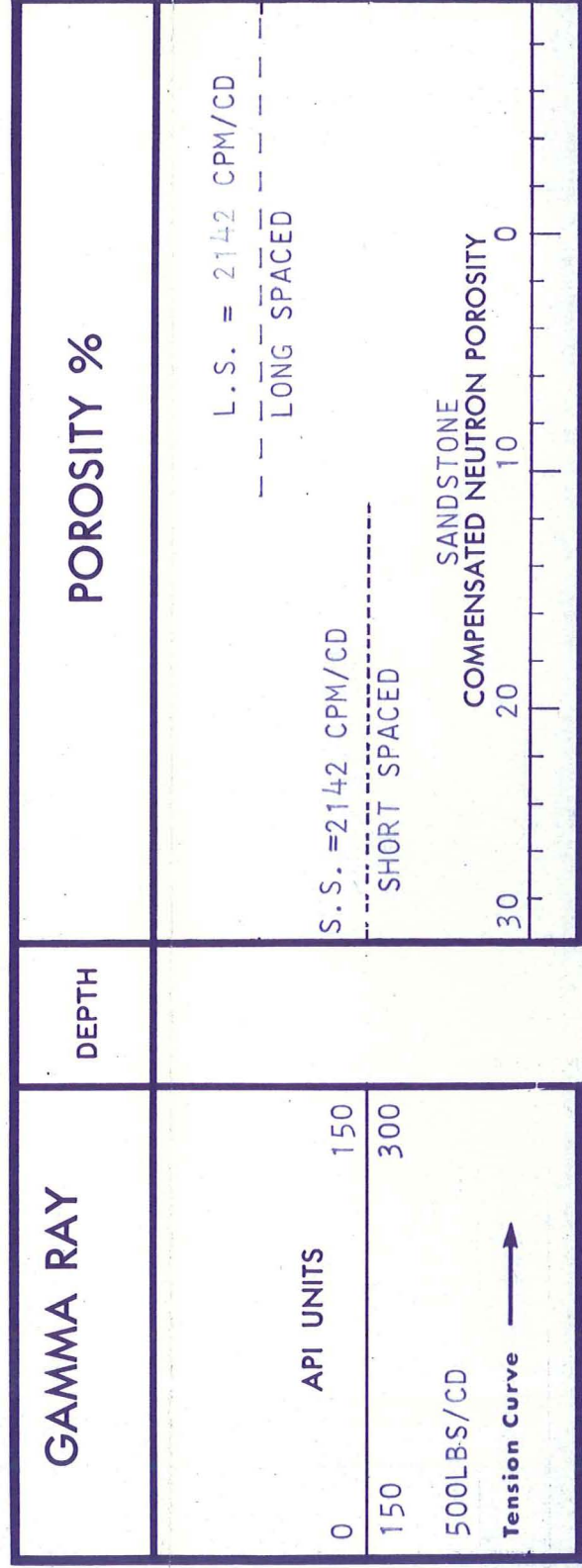
Elevations:  
KB 4871  
DF 4870  
GL 4855

Date	7/23/78	8/1/78
Run No.	ONE	TWO
Type Log	CN LOG	CN LOG
Depth-Driller	2050	3858
Depth-Logger	2054	3791
Bottom Logged Interval	2049	3789
Top Logged Interval	160	2050
Type Fluid in Hole	FRESH GEL	WATER
Salinity Ppm Cl.		
Density Lb./Gal.	9.1	
Level	FULL	FULL
Max. Rec. Temp. Deg. F	126	149
Opr. Rig Time	2 HRS	3 HRS
Equip. No. and Location	HL6150 RSVT	HL6150 RSVT
Recorded By	PERESSINI	PERESSINI-TORGERSON
Witnessed By	GOLDMAN	PRESTWICH

Run No.	Bore Hole Record			Casing Record			
	Bit	From	To	Size	Wgt.	From	To
1	17 1/2	T.D.	160	20"		160	0

FOLD HERE HERE

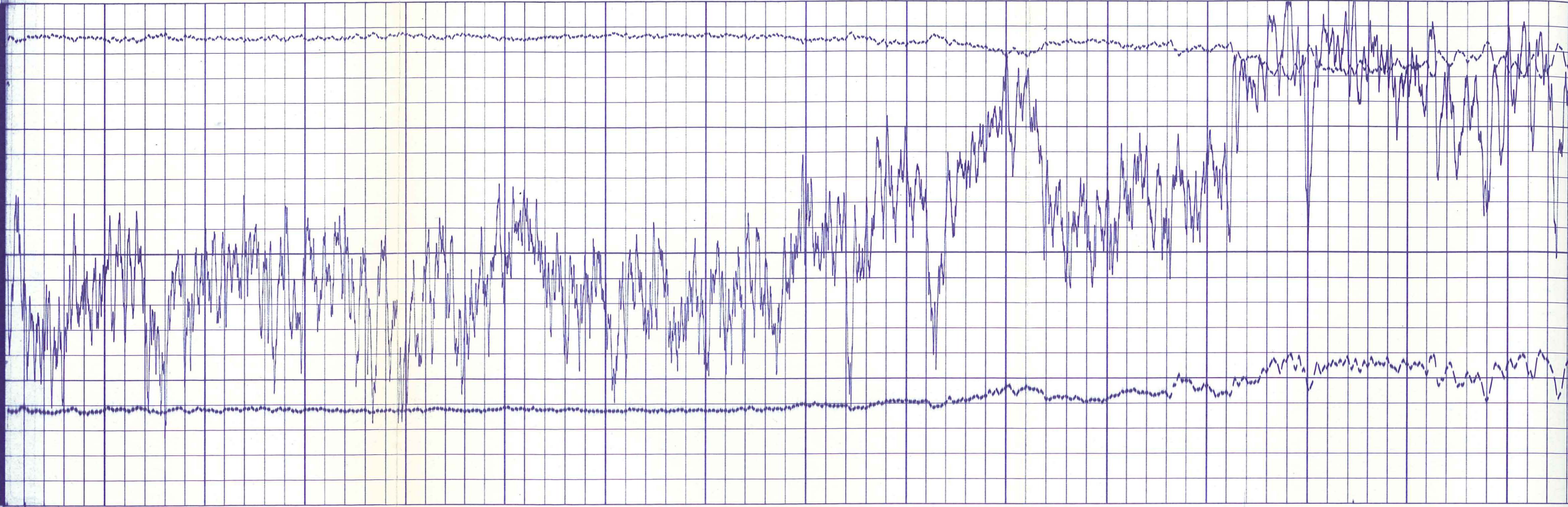
Run No.	Equipment Used		Equipment Data		Gamma Ray		Compensated Neutron	
	ONE	TWO	ONE	TWO	ONE	TWO	ONE	TWO
	Run No.	87800	Run No.	87800	Run No.	1306	Run No.	1306
	S.O.	29364	Log Type	CN LOG	Tool Model No.	3 5/8"	Log Type	CN LOG
	Tool No.	29901	Serial No.	29364	Diam.	D6G4	Serial No.	2413
	Elec. No.	37004	Diam.	3 5/8"	Detect. Model SS	SCINT	Diam.	29901
	Panel No.	37004	Detect. Model LS	D6N3	Detect. Model LS	6"	Detect. Model SS	3 5/8"
			Detect. Model LS	D6N3	Source Model No.	6'	Detect. Model LS	D6N3
			Source Model No.	S17S20	Serial No.		Source Model No.	S17S20
			Serial No.	30431	Type		Serial No.	30431
			Type	HE3			Type	HE3



SHORT SPACED

SANDSTONE  
COMPENSATED NEUTRON POROSITY

0  
10  
20  
30



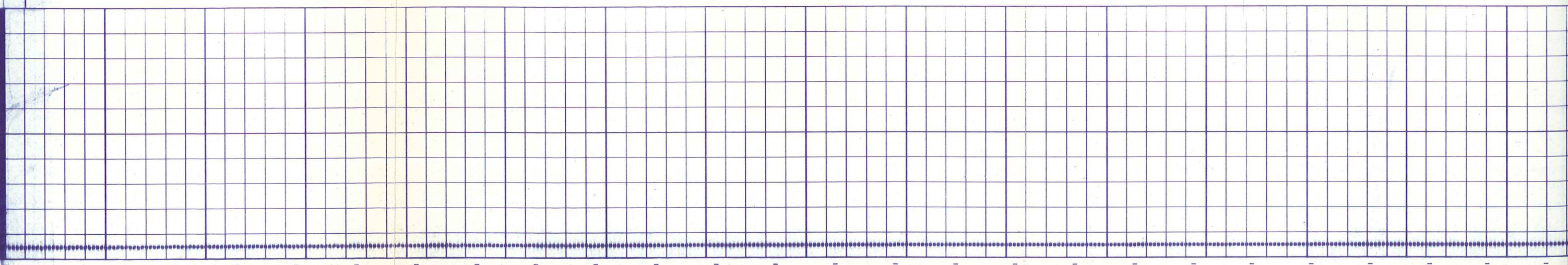
Casing  
Run 1

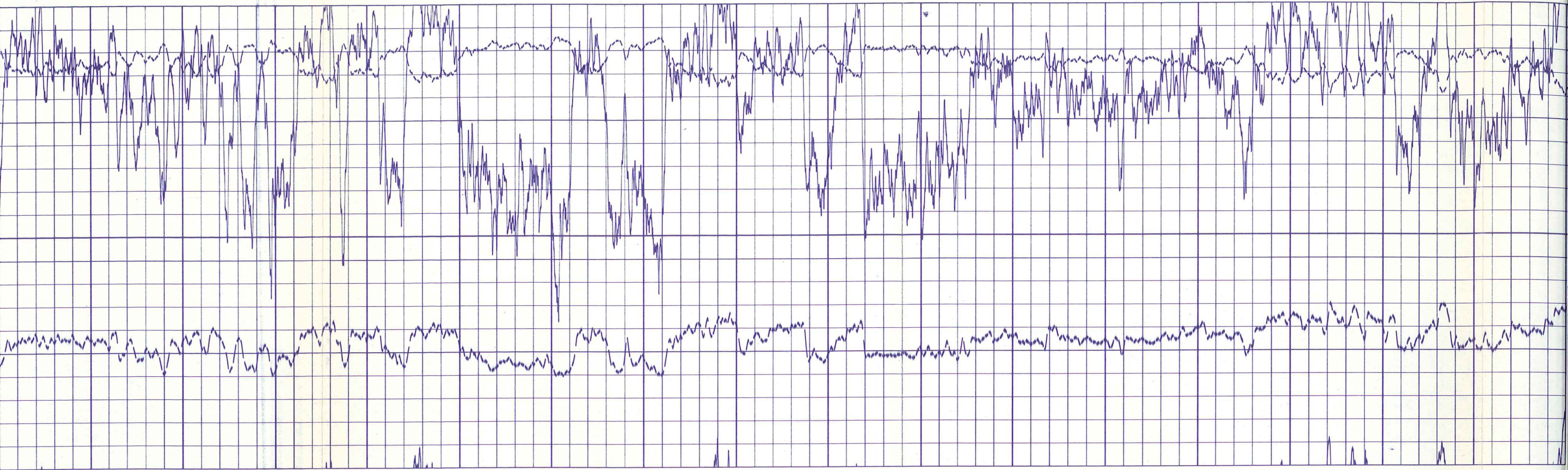
0200 0300 0400 0500 0600 0700 0800 0900

300

500LBS/CD  
Tension Curve

150  
↑





000

0900

1000

1100

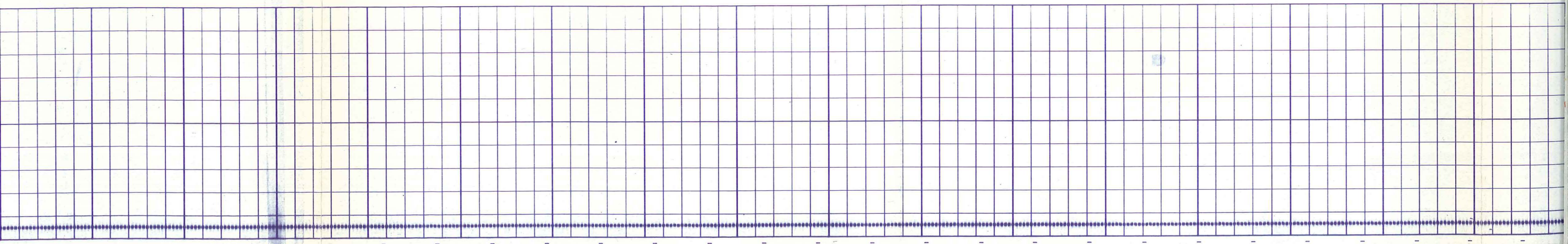
1200

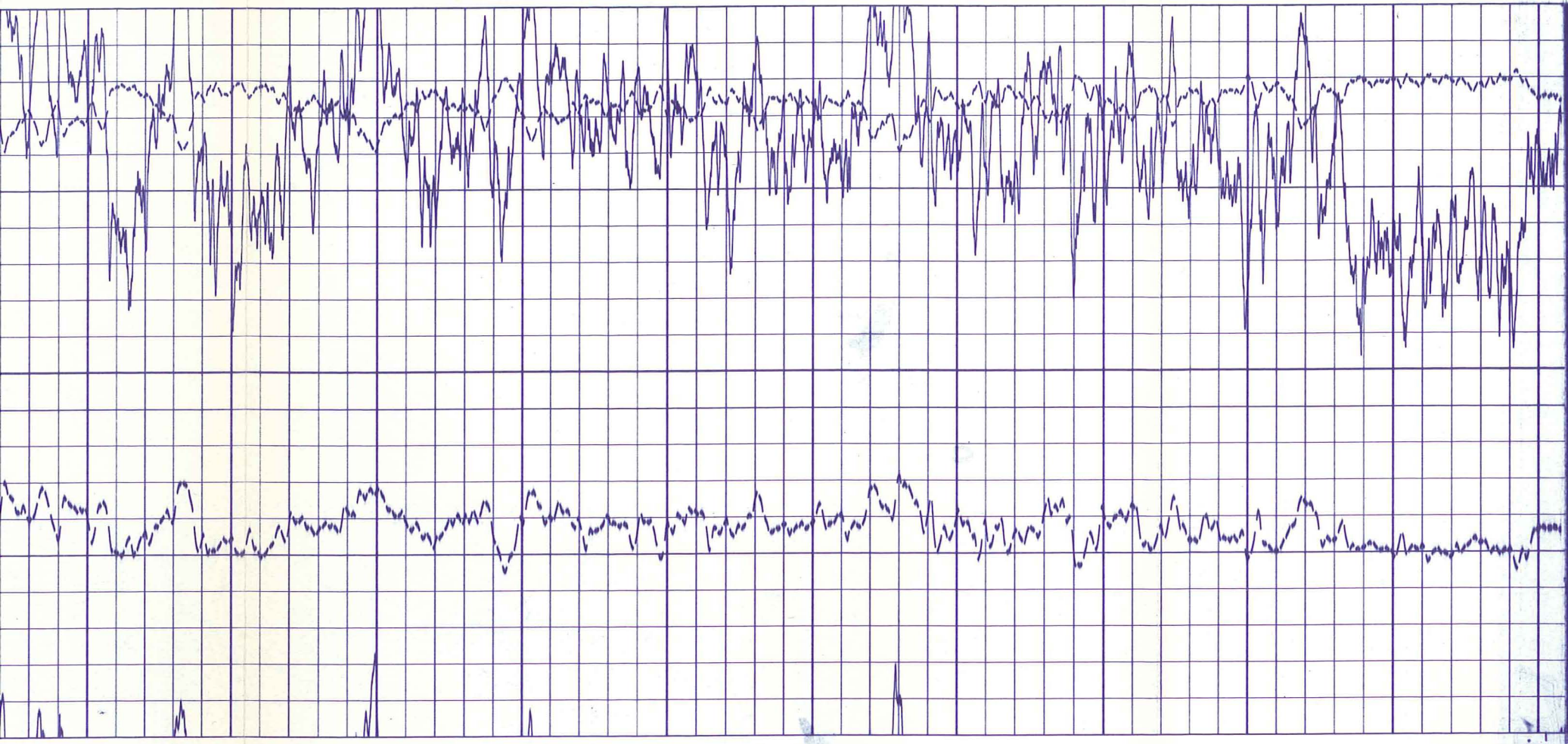
1300

1400

1500

1600





1600

1700

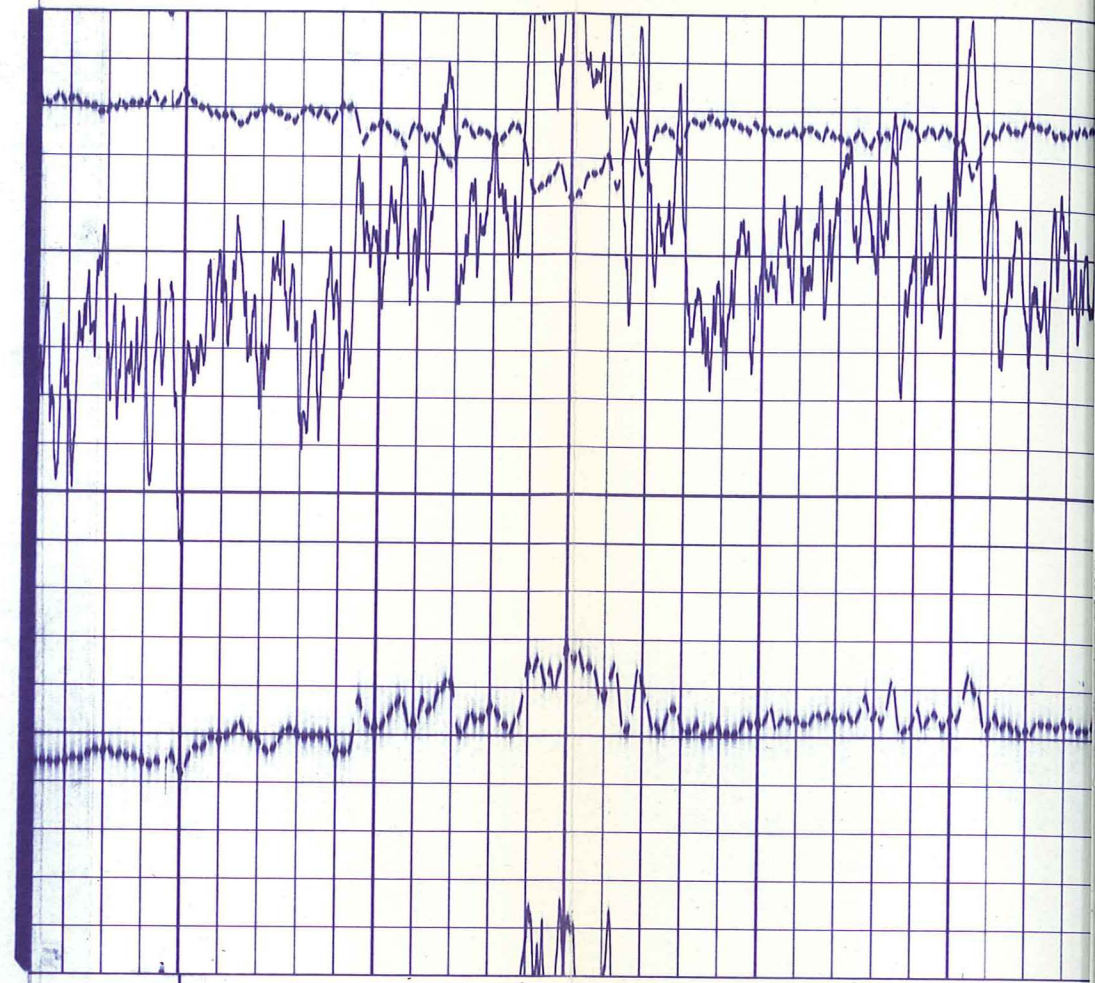
1800

1900

2000

Run 1

Log T. D.

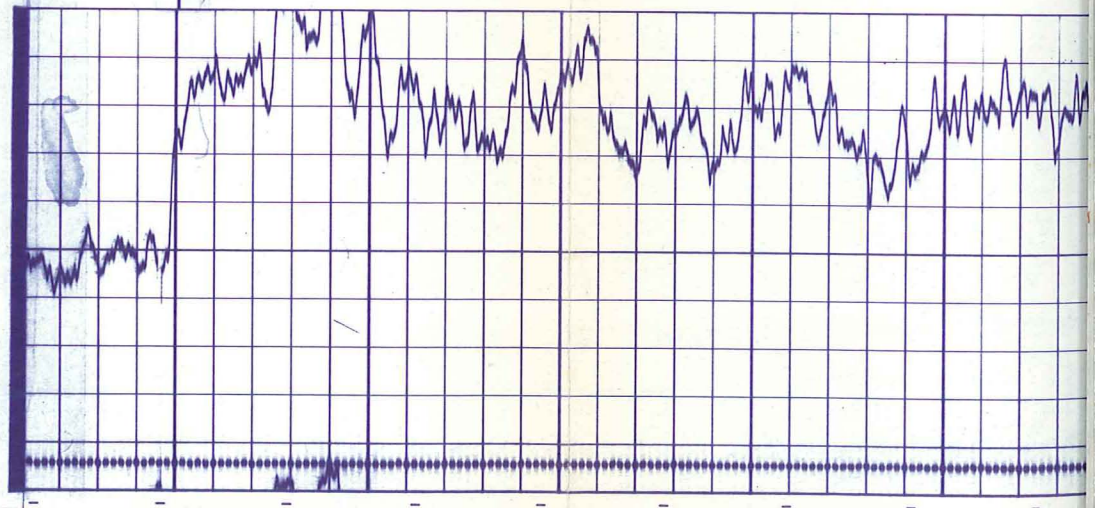
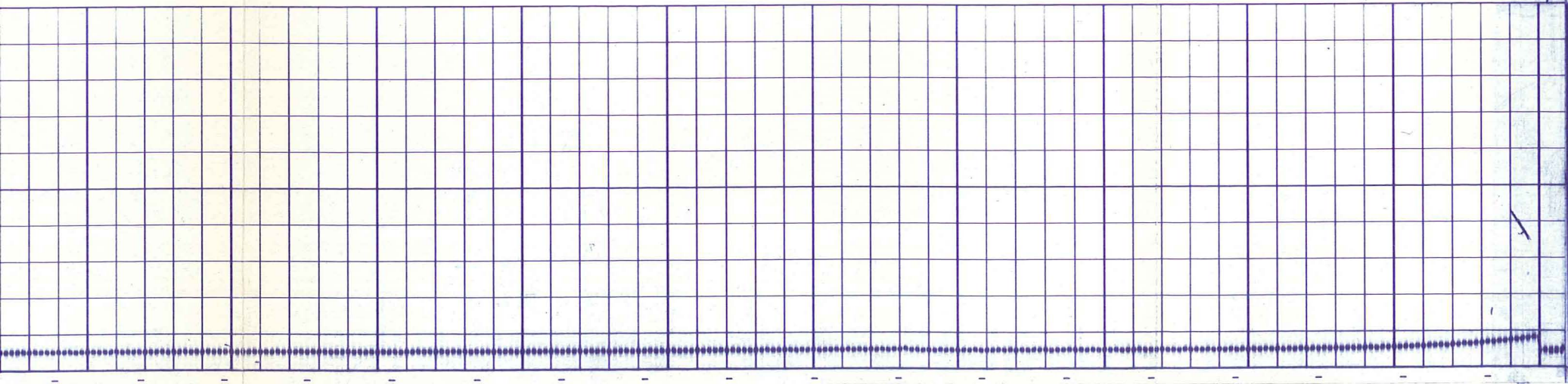


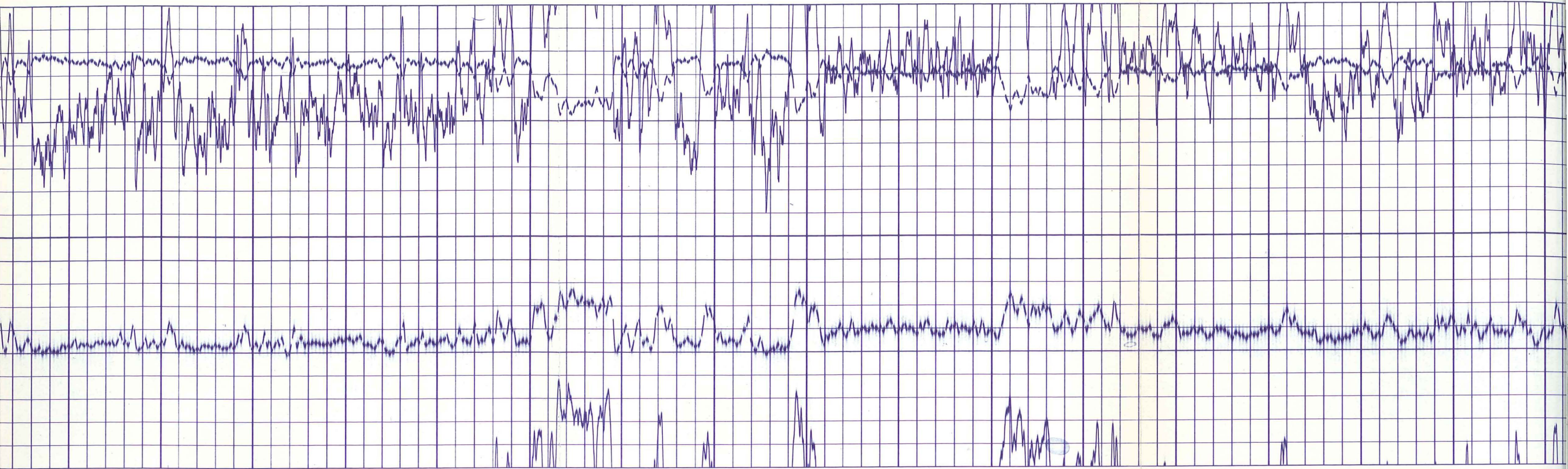
2100

2200

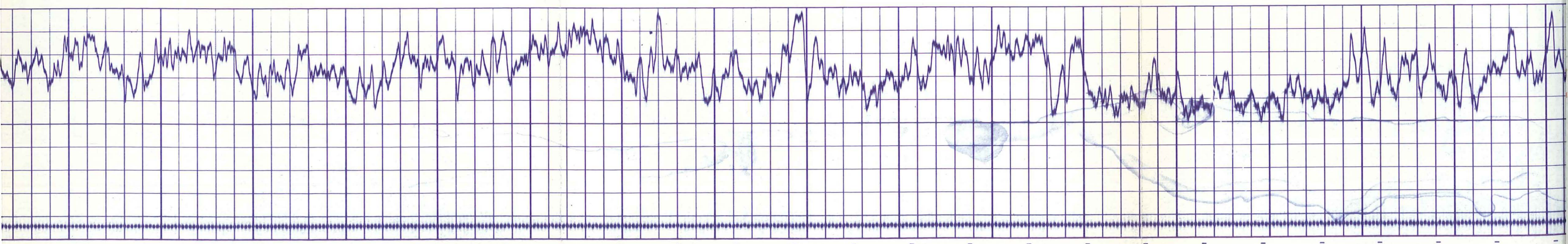
Casing

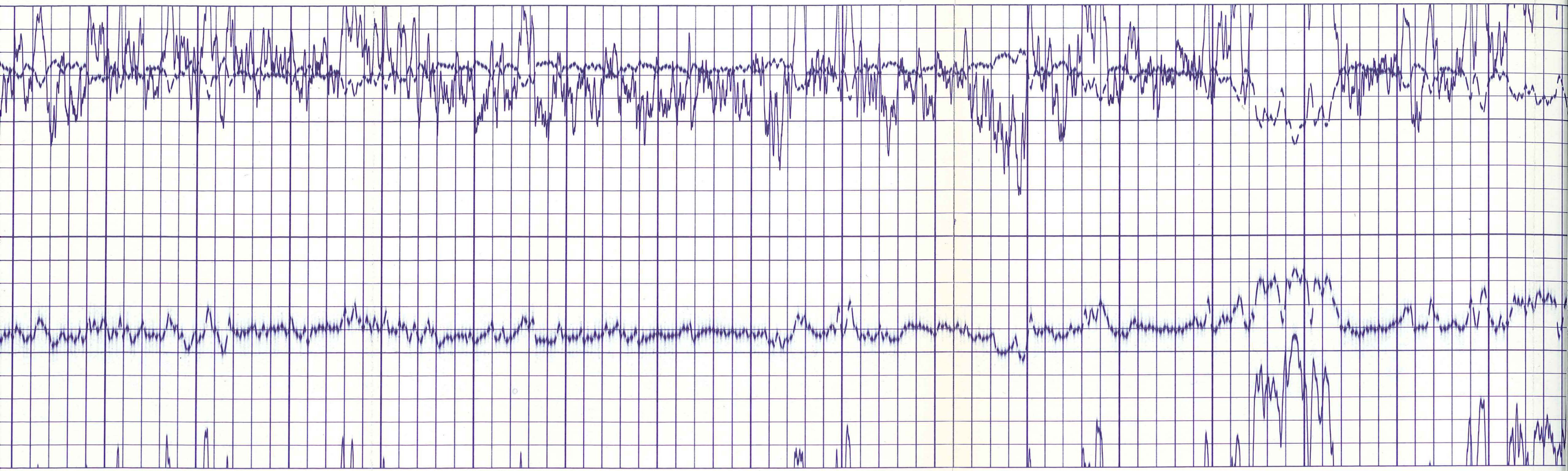
Run 2



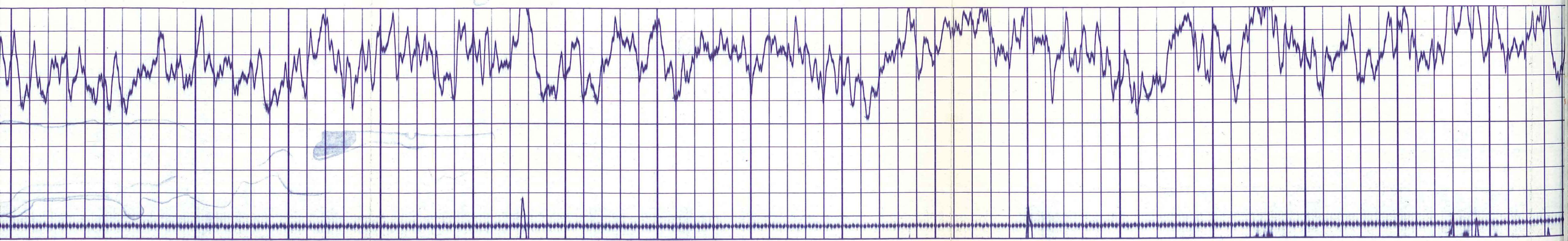


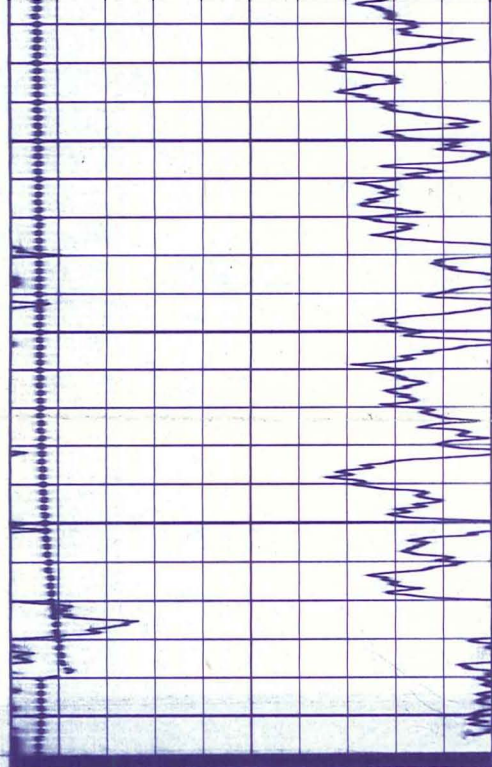
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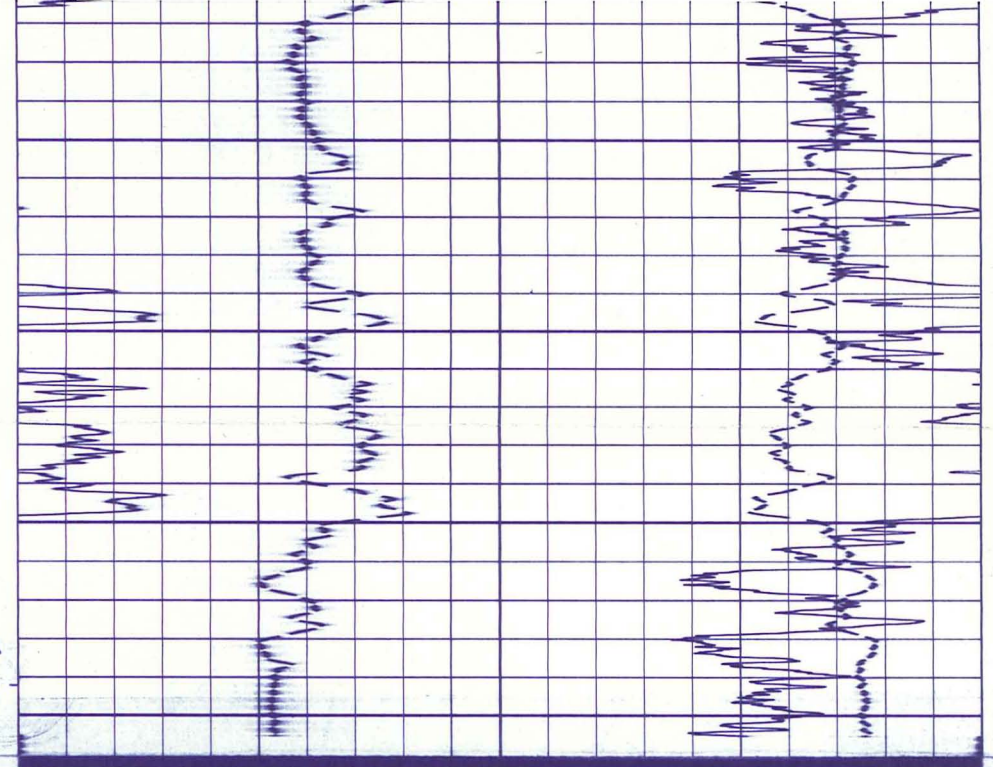


2900 3000 3100 3200 3300 3400 3500 3600 3700





3700  
Log T. D.  
3800



500LBS/CD  
Tension Curve →

150	300
0	150
API UNITS	

30 20 10 0  
SANDSTONE POROSITY

**COMPENSATED NEUTRON**

L.S. = 2142 CPM/CD  
LONG SPACED

S.S. = 2142 CPM/CD  
SHORT SPACED

**GAMMA RAY**

DEPTH

**COMPENSATED DENSILOG**

Company	E. G. & G. IDAHO INC.	Drillers T.D.	3858
Well	R.R.G.I. #7	Log F.R.	3789
Field	RAFT RIVER GEOTHERMAL	Log T.D.	3791
County	CASSIA	Elevations:	
State	IDAHO	K.B.	4871
		D.F.	4870
		G.L.	4855

**GAMMA RAY**

DEPTH

0	150
150	300
API UNITS	

500LBS/CD  
Tension Curve →

DEPTH

**COMPENSATED DENSILOG**

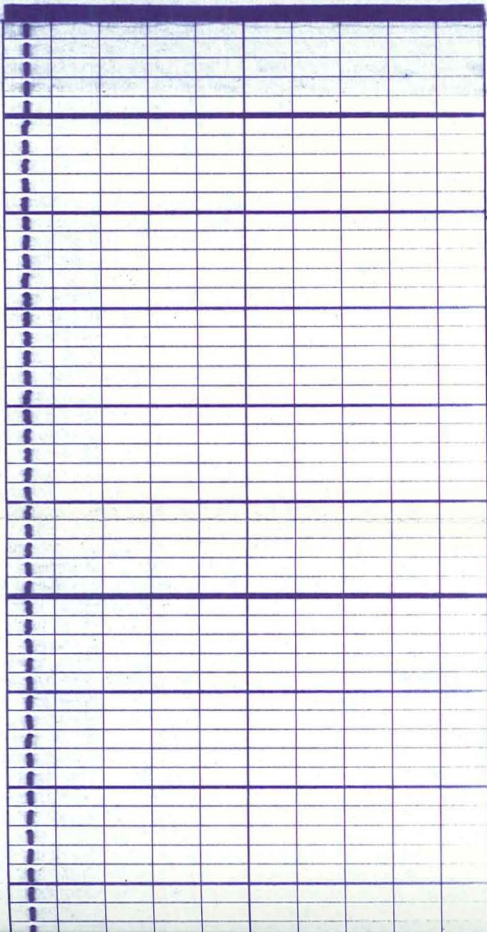
S.S. = 2142 CPM/CD  
SHORT SPACED

L.S. = 2142 CPM/CD  
LONG SPACED

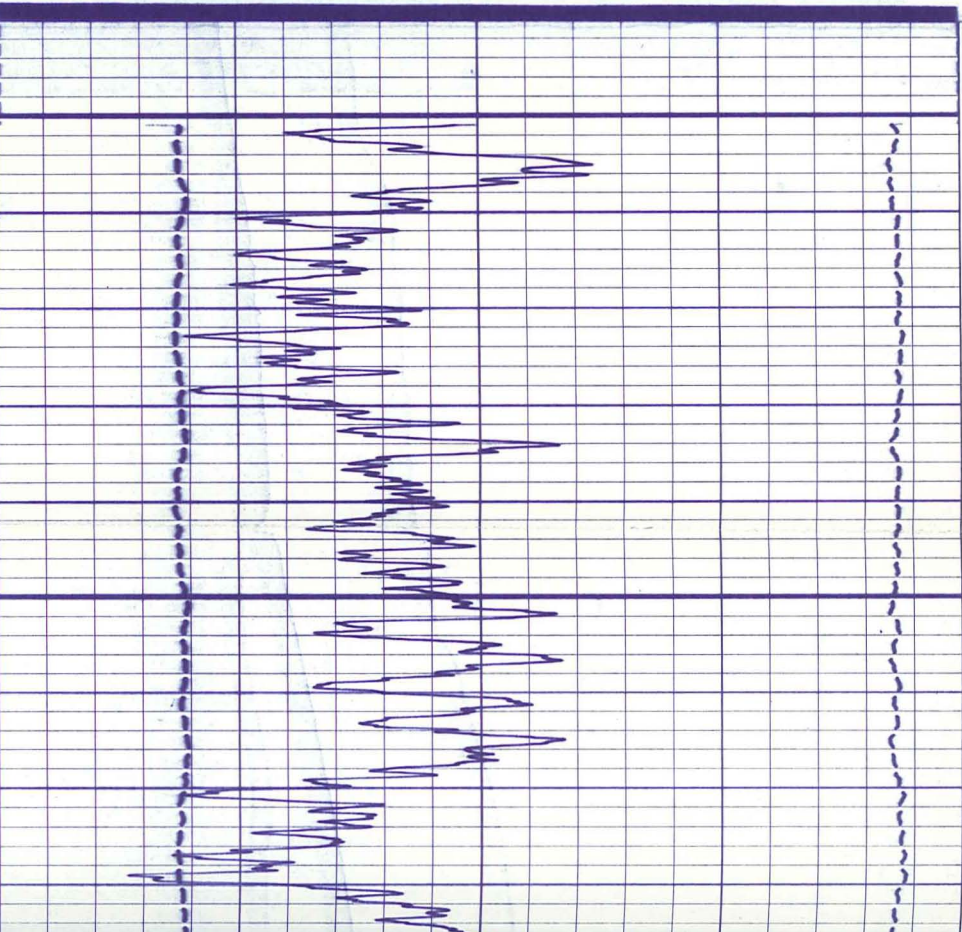
**COMPENSATED NEUTRON**

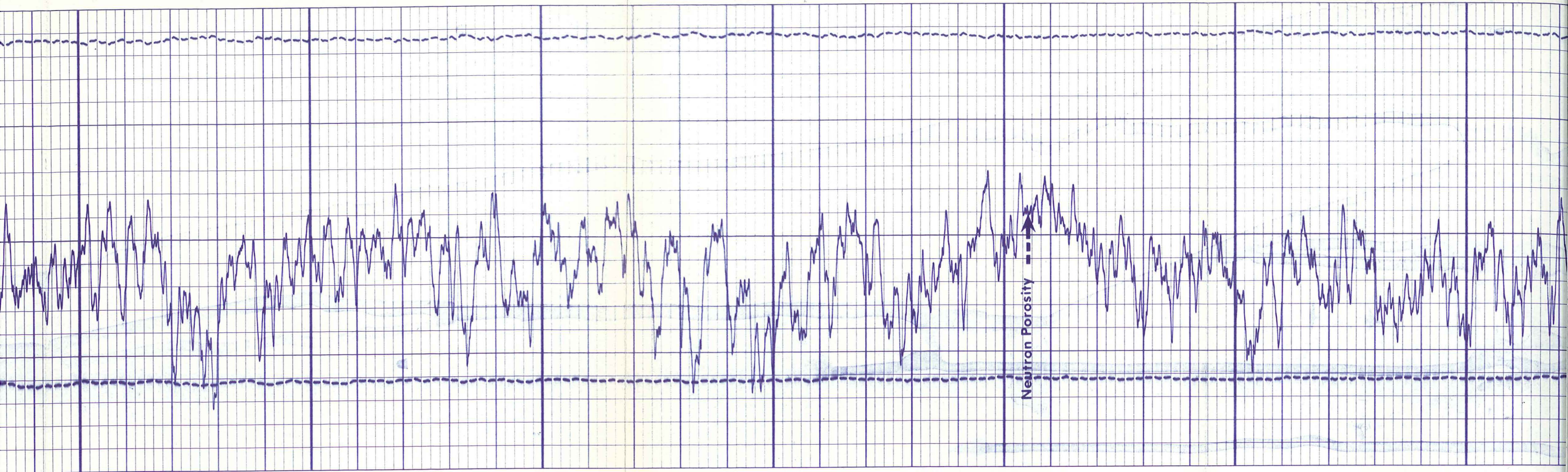
SANDSTONE POROSITY

30 20 10 0



Run 1  
Casing  
0200





0200

0300

0400

0500

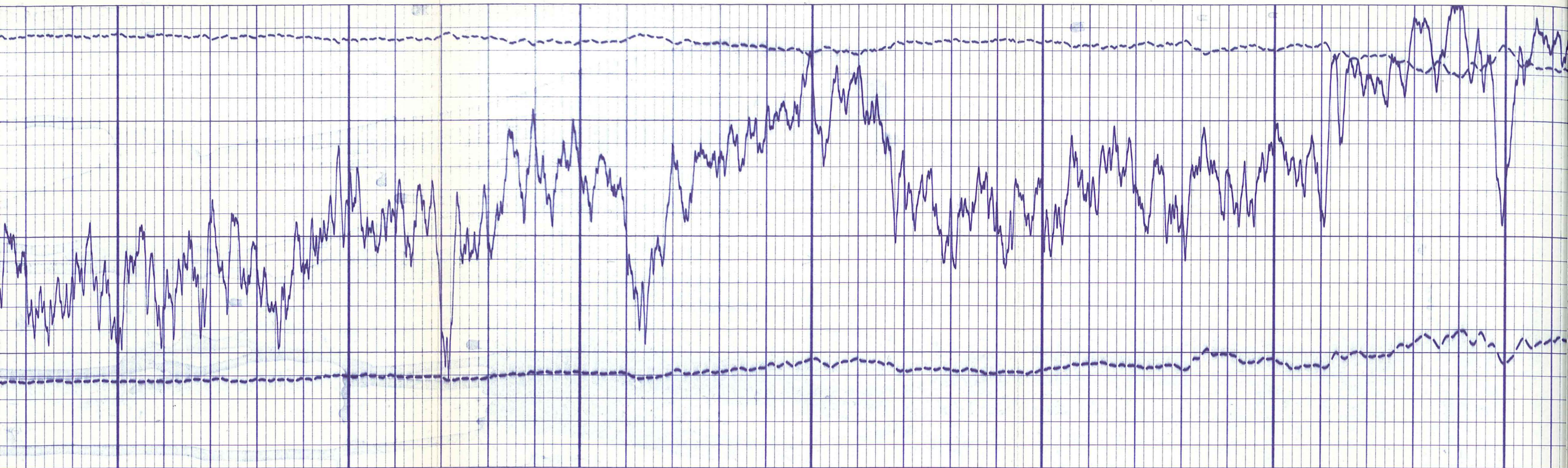
Tension Curve



1 Minute.





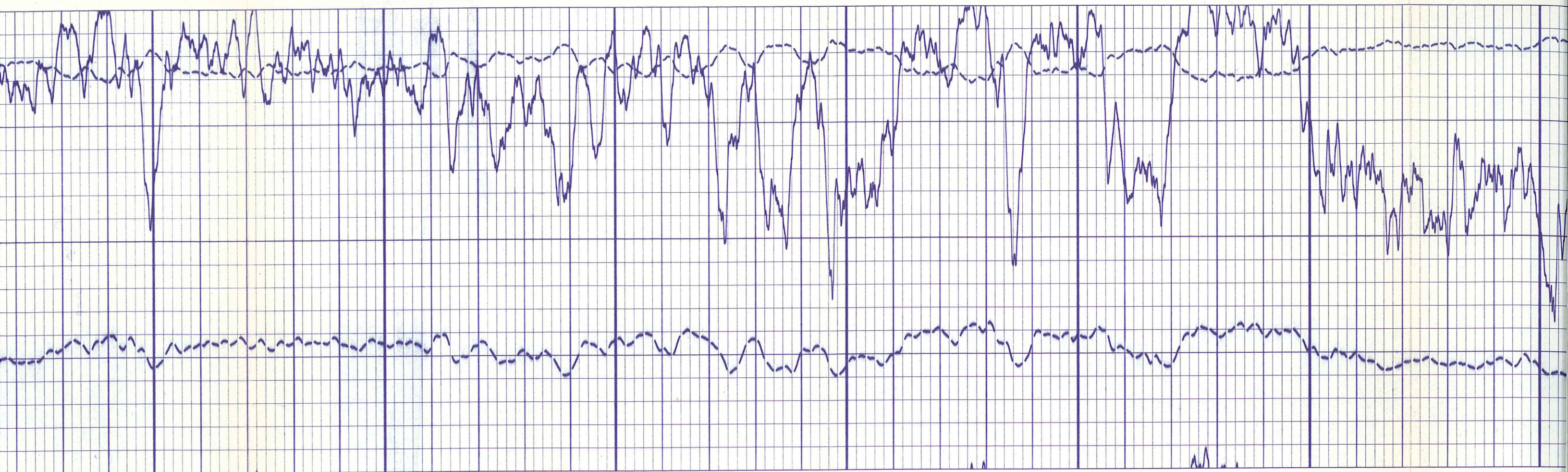


0500

0600

0700

0800

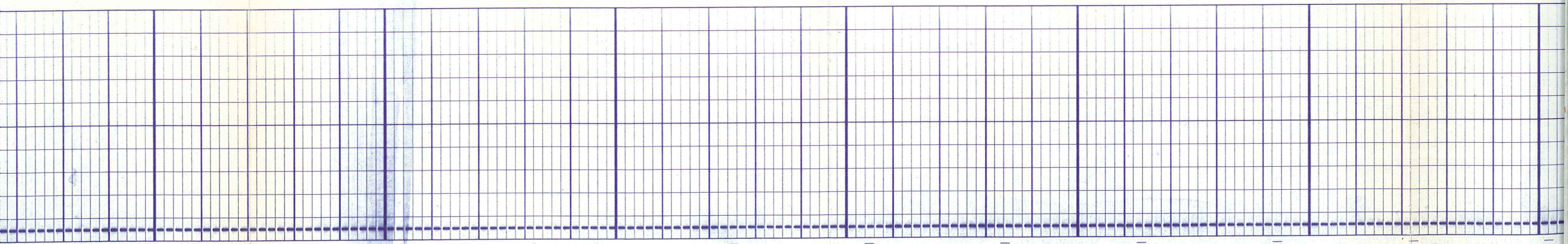


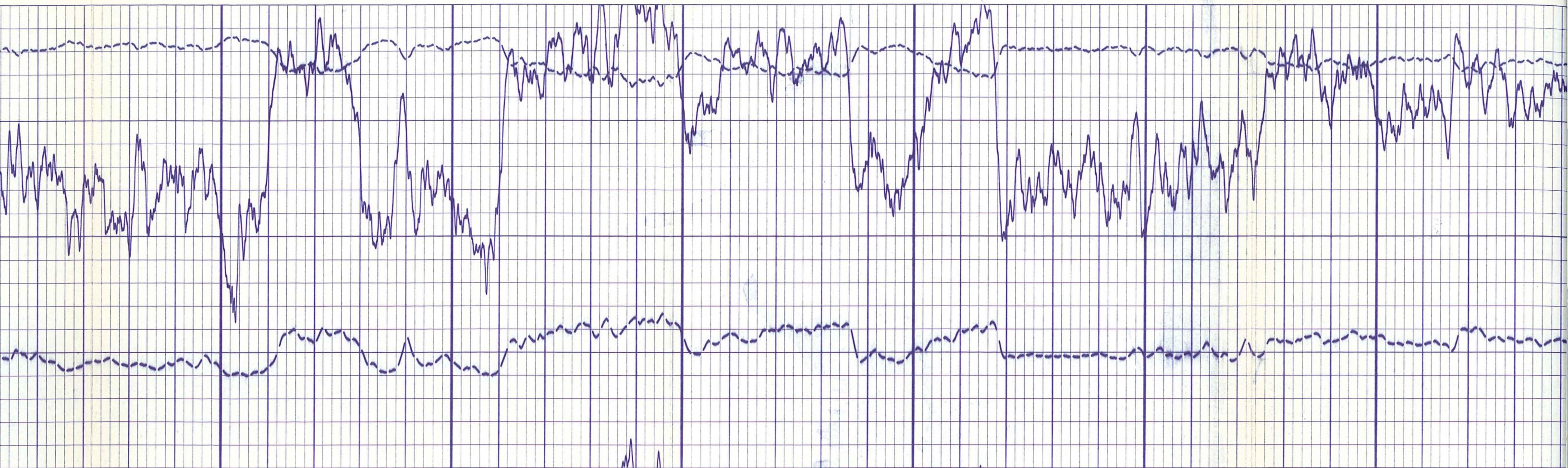
0800

0900

1000

1100

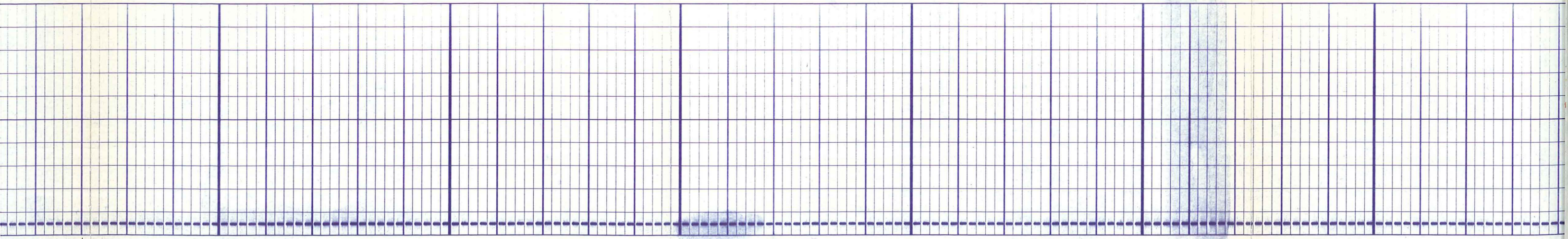


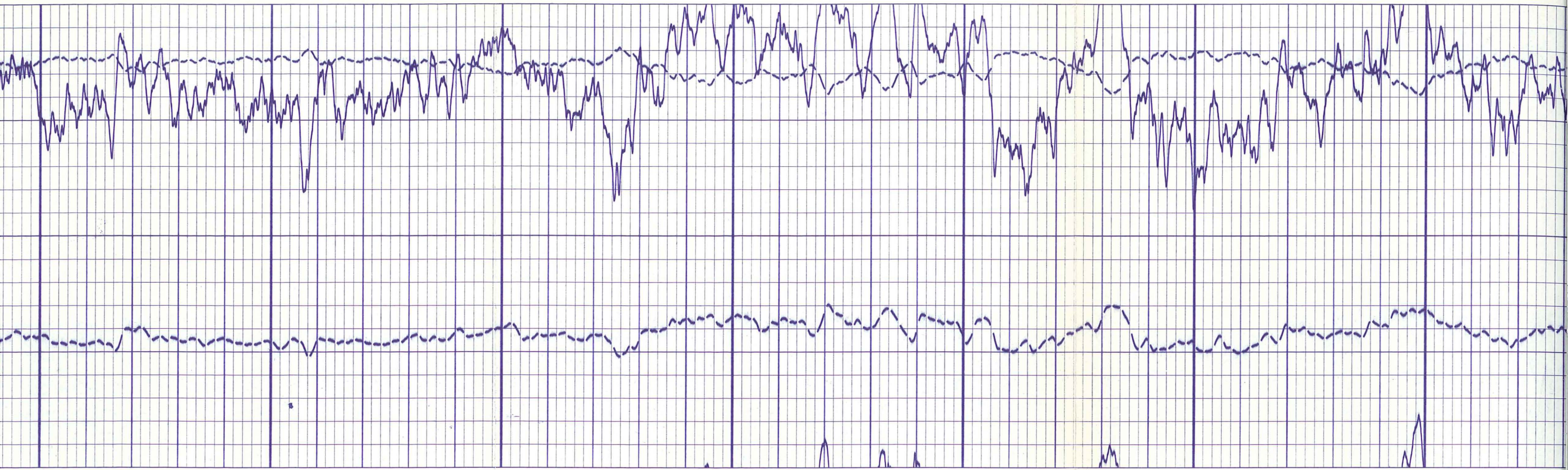


1100

1200

1300

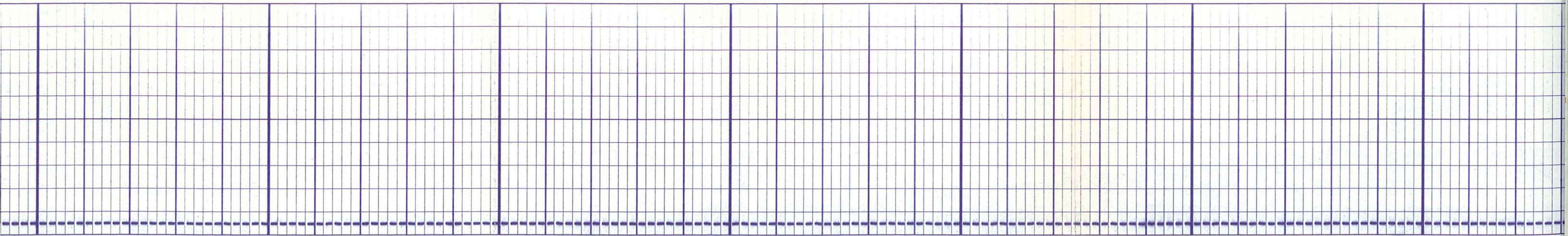


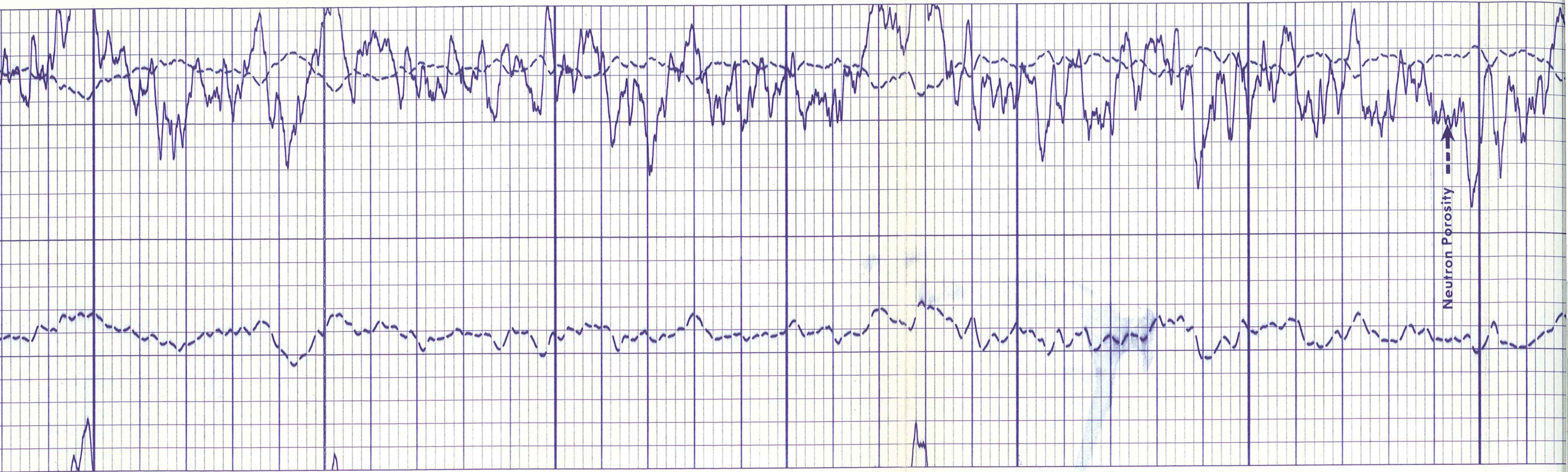


1400

1500

1600



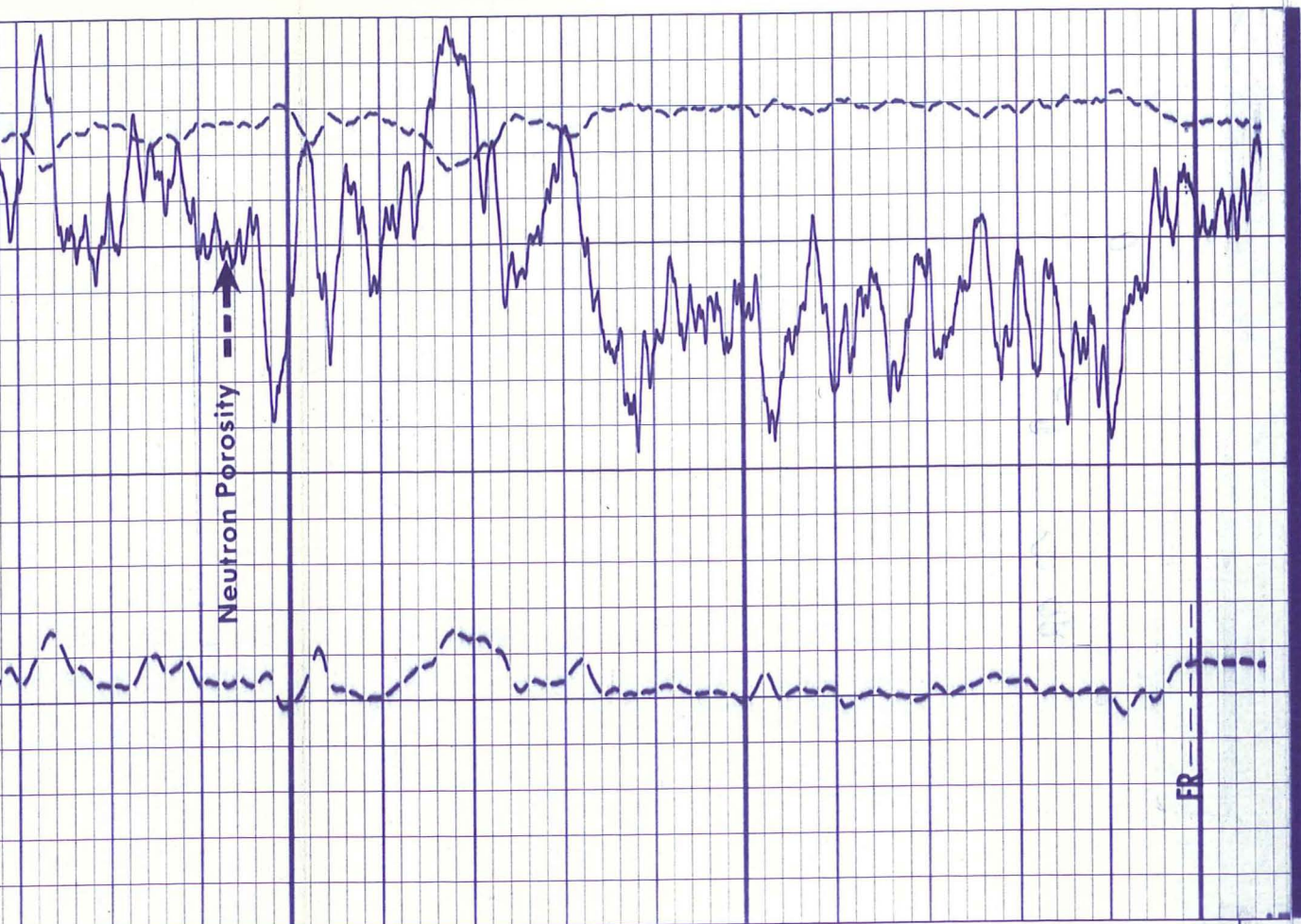


1700

1800

1900

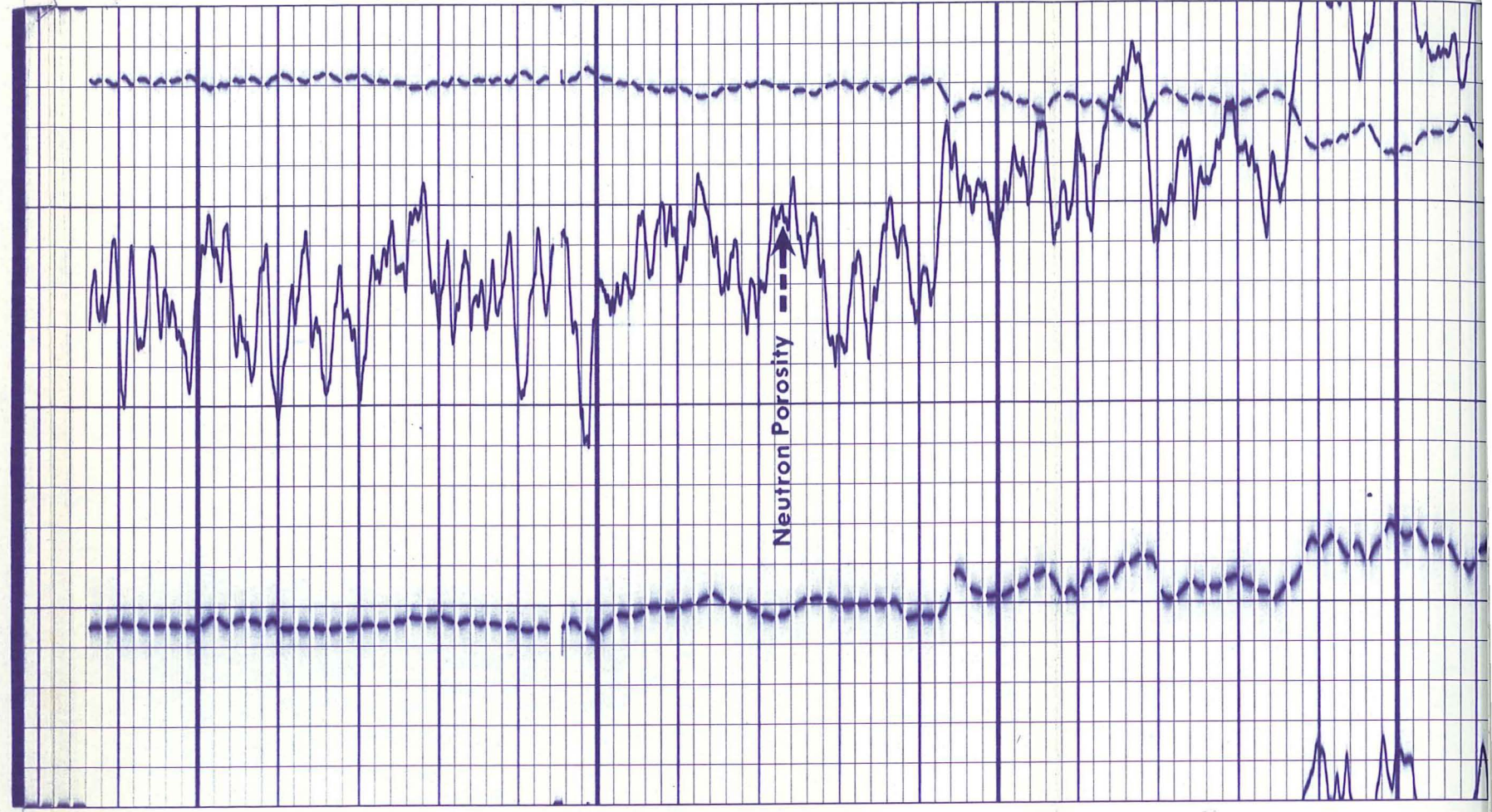
← 1 Minute. →



2000

Run 1

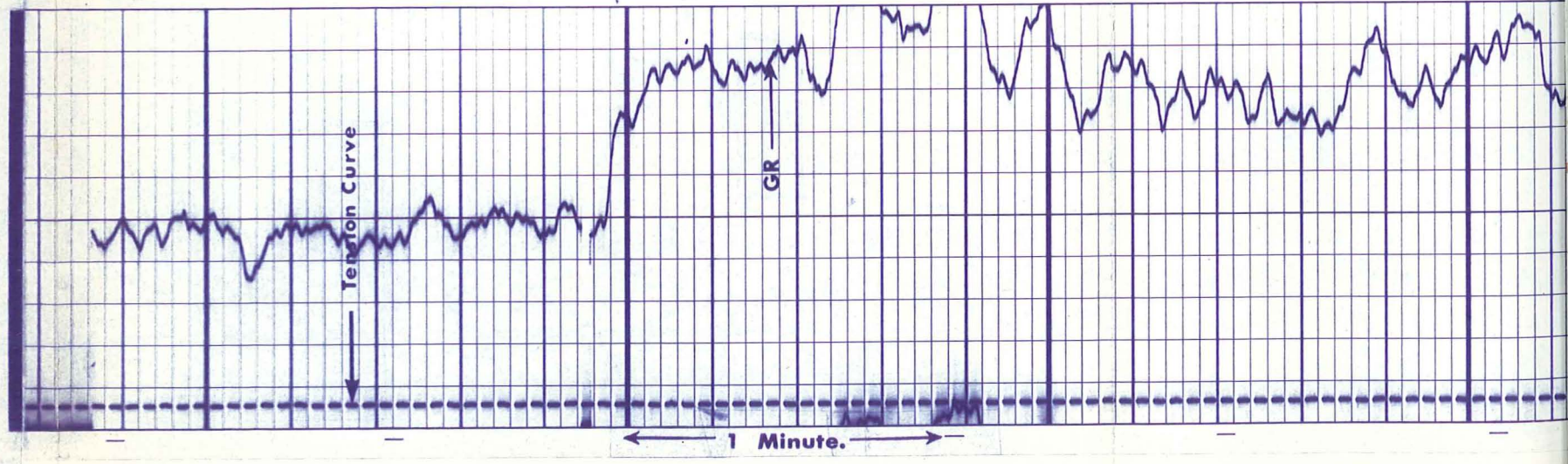
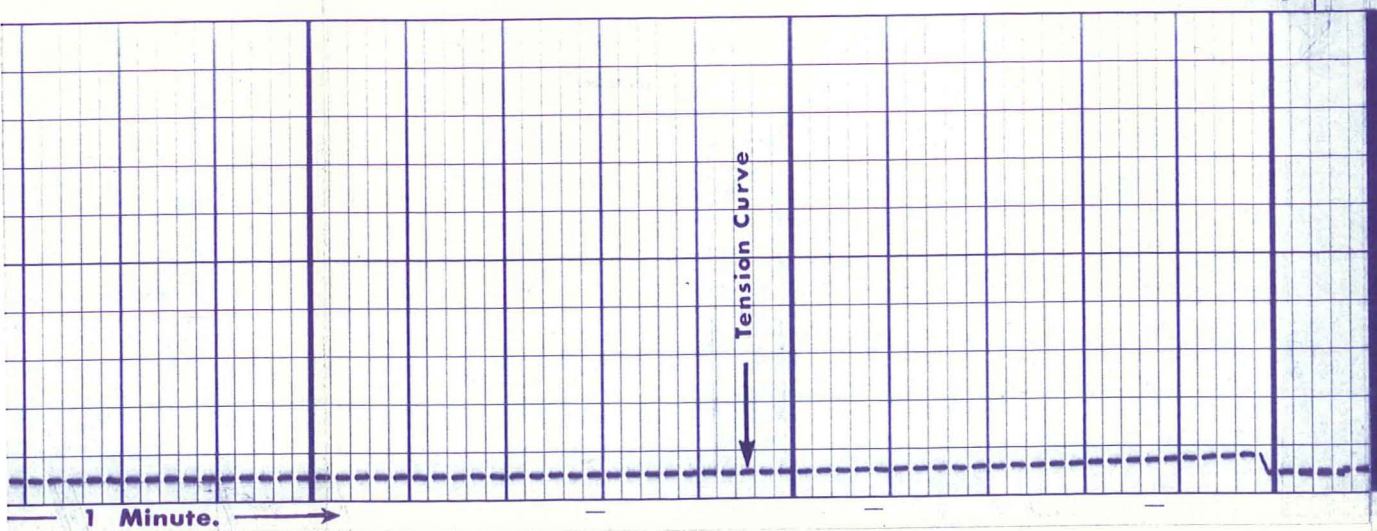
Log T. D.



2000

Run 2

2100

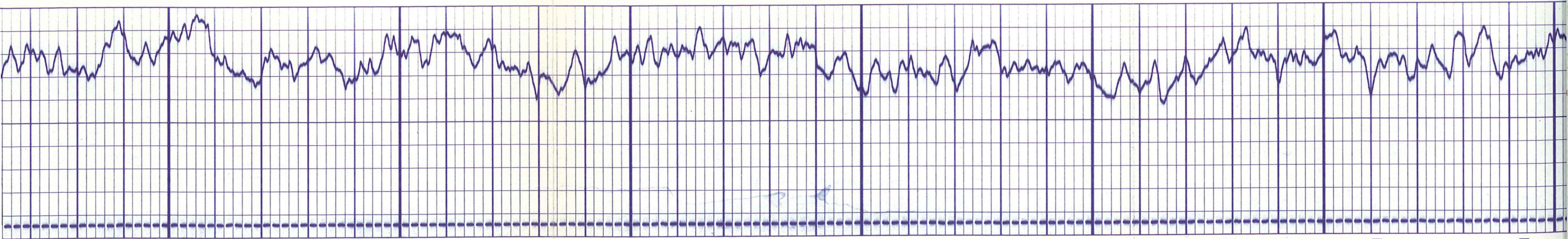


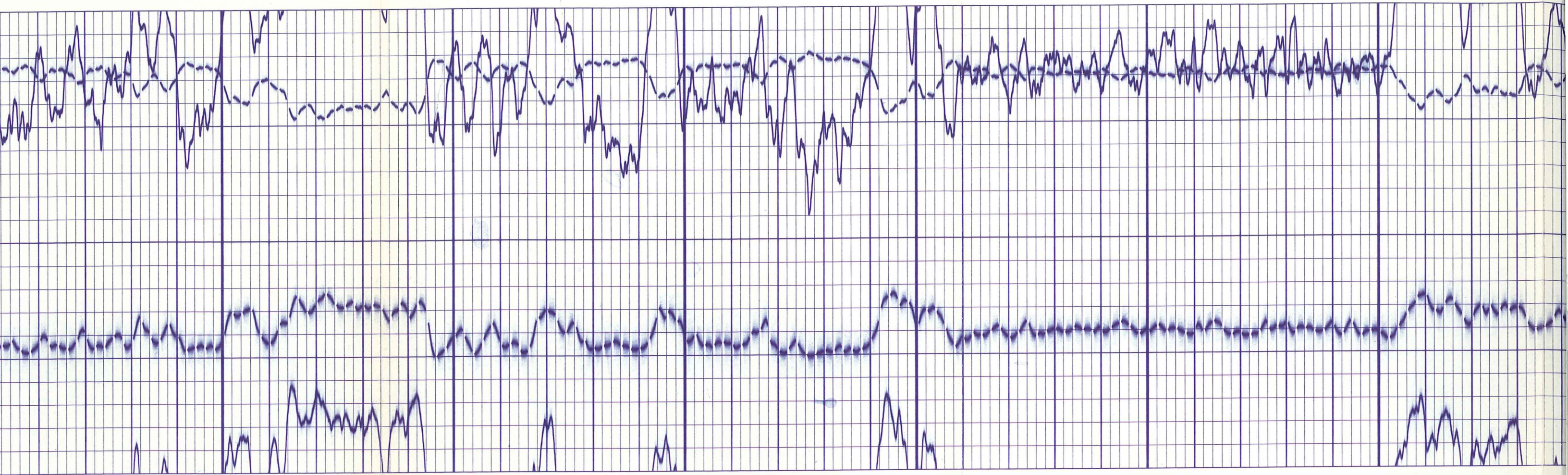


2200

2300

2400



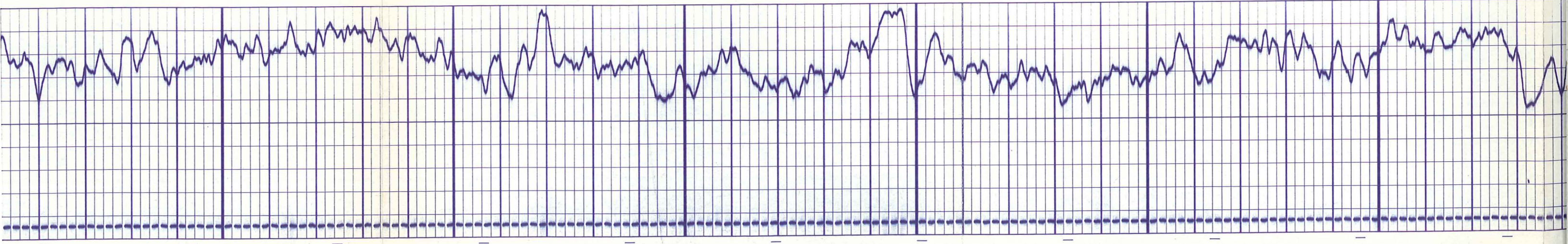


0

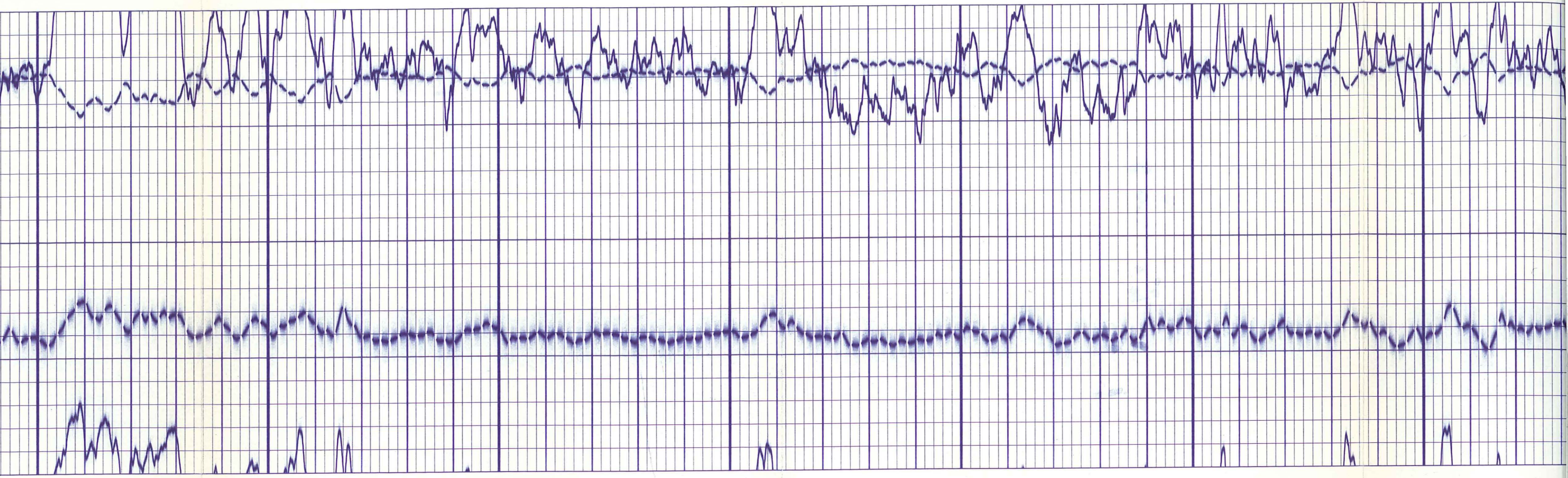
2500

2600

2700





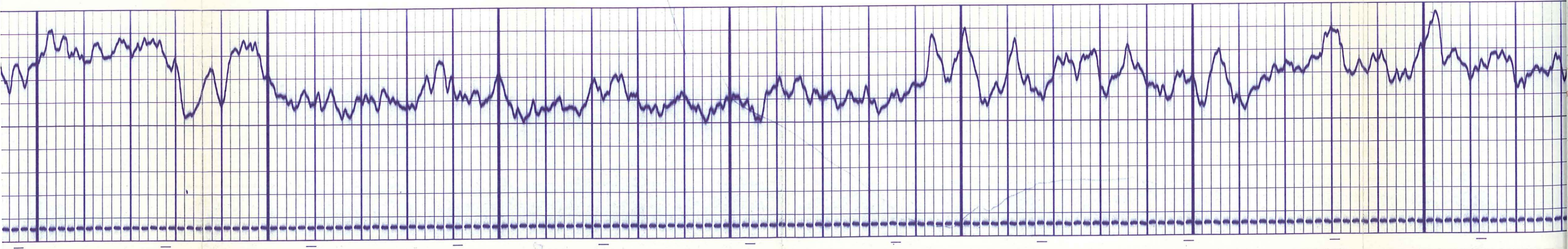


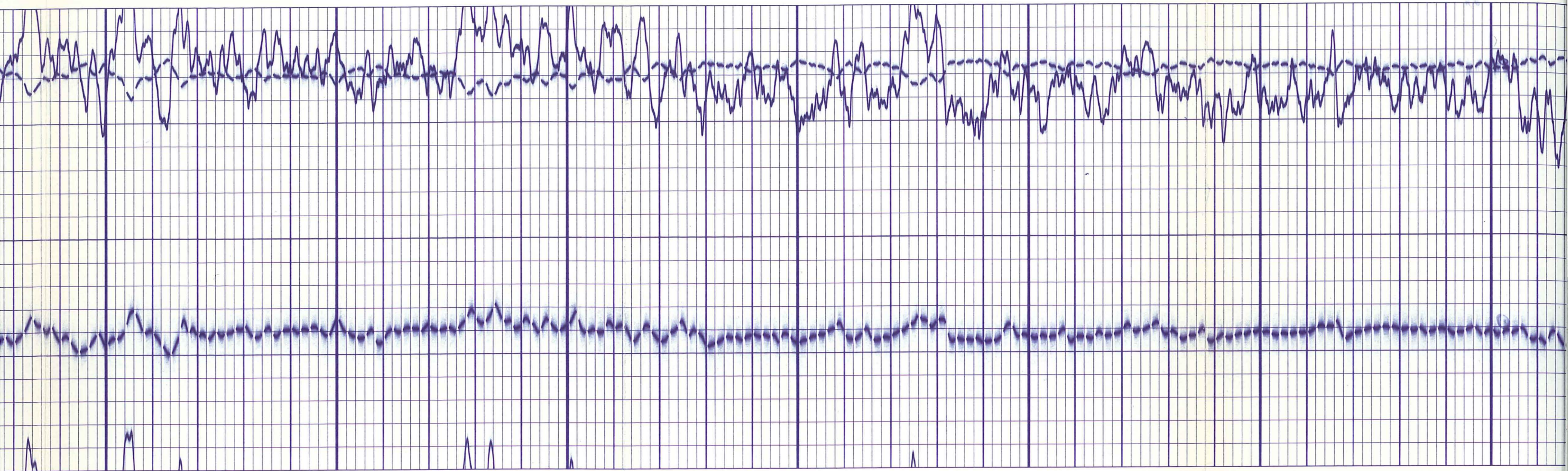
2700

2800

2900

3000



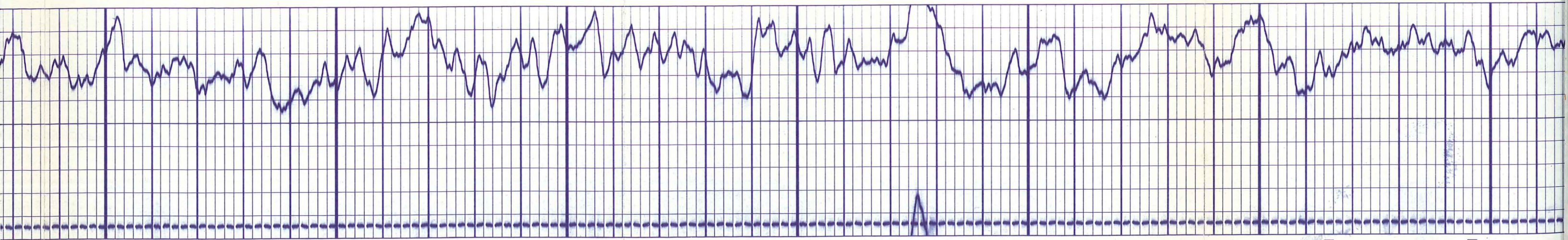


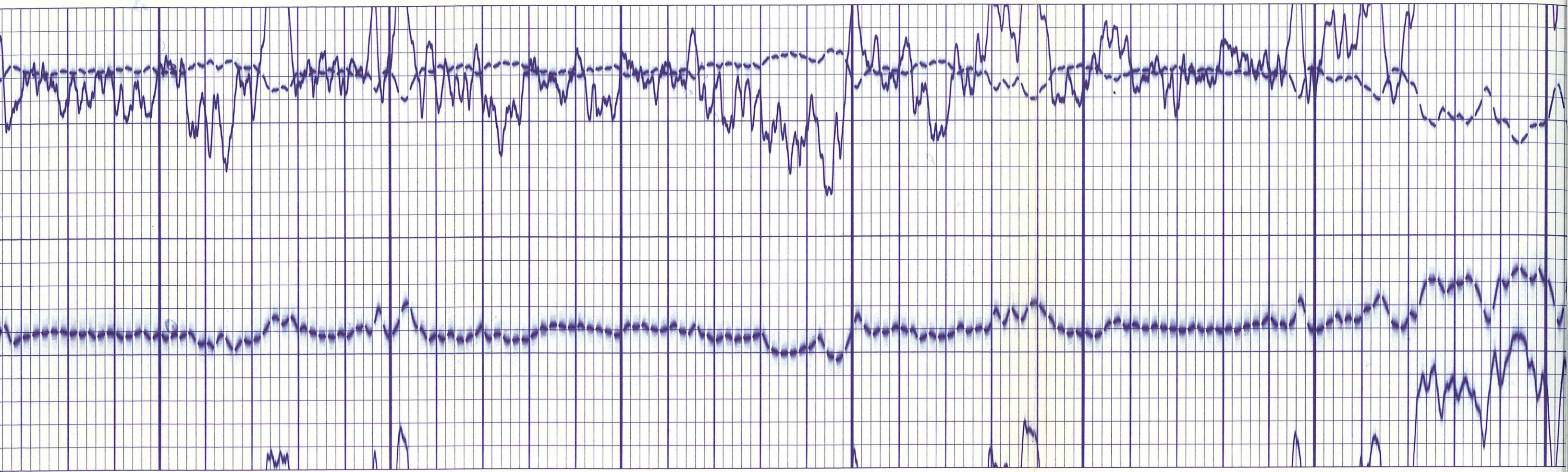
3000

3100

3200

3300



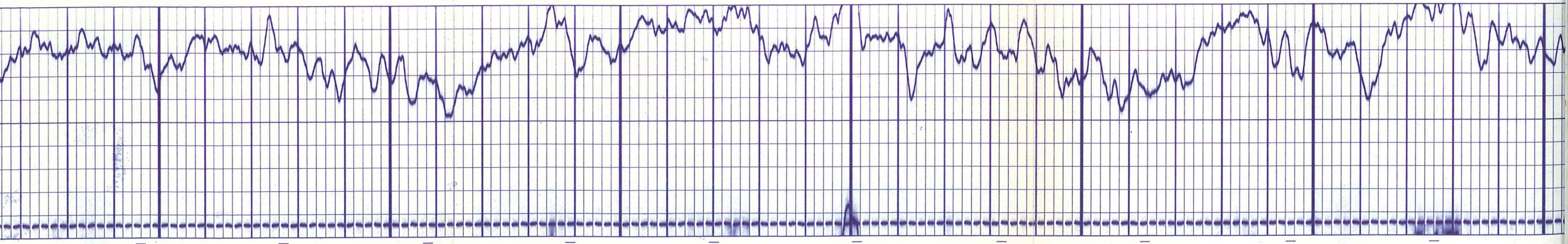


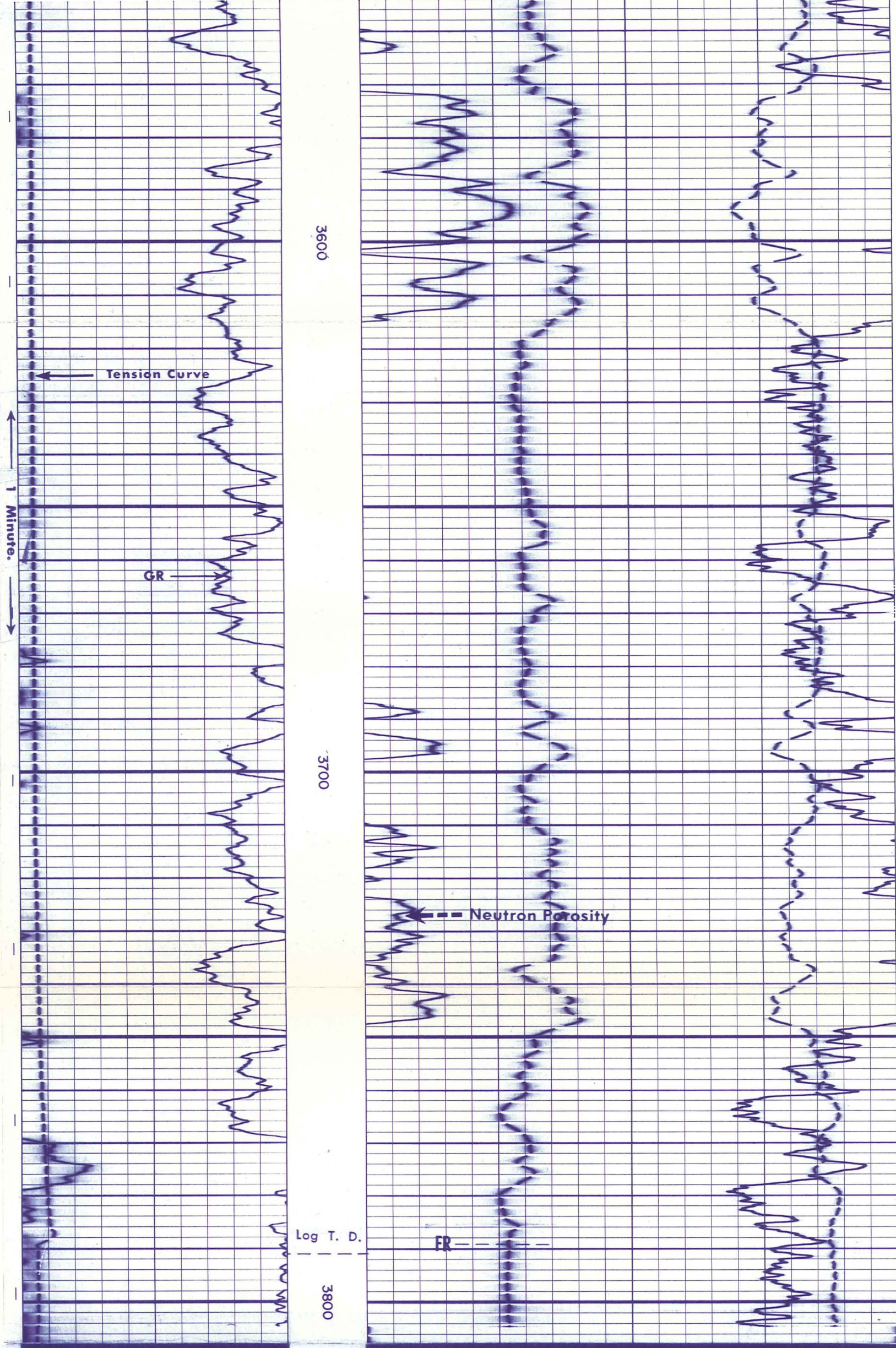
3300

3400

3500

3600





Tension Curve →	
500LBS/CD	
150	300
0	150
API UNITS	

30	20	10	0
SANDSTONE POROSITY			
<b>COMPENSATED NEUTRON</b>			
S.S. = 2142 CPM/CD			
SHORT SPACED			
L.S. = 2142 CPM/CD			
LONG SPACED			

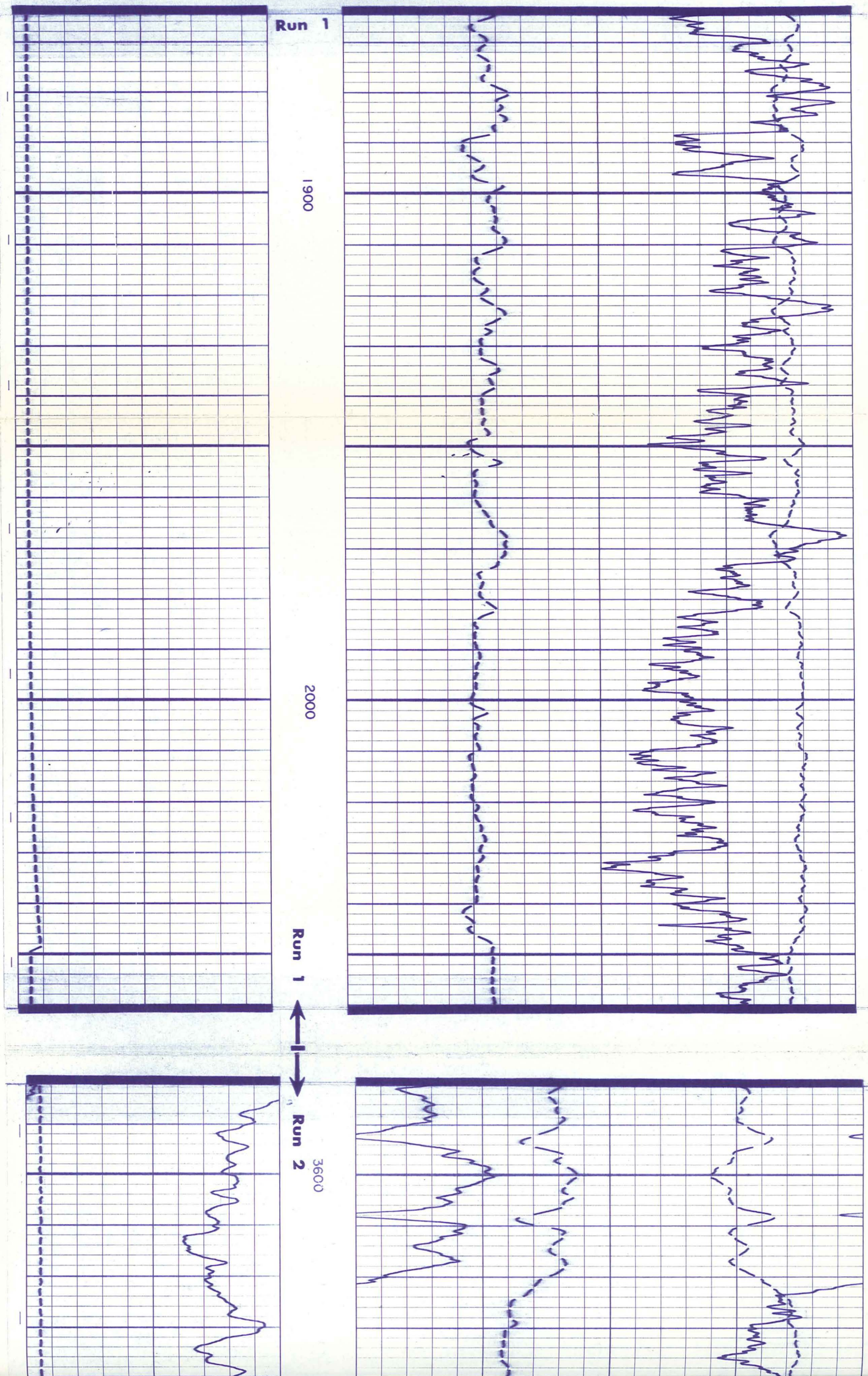
<b>GAMMA RAY</b>	<b>DEPTH</b>	<b>COMPENSATED DENSILOG</b>
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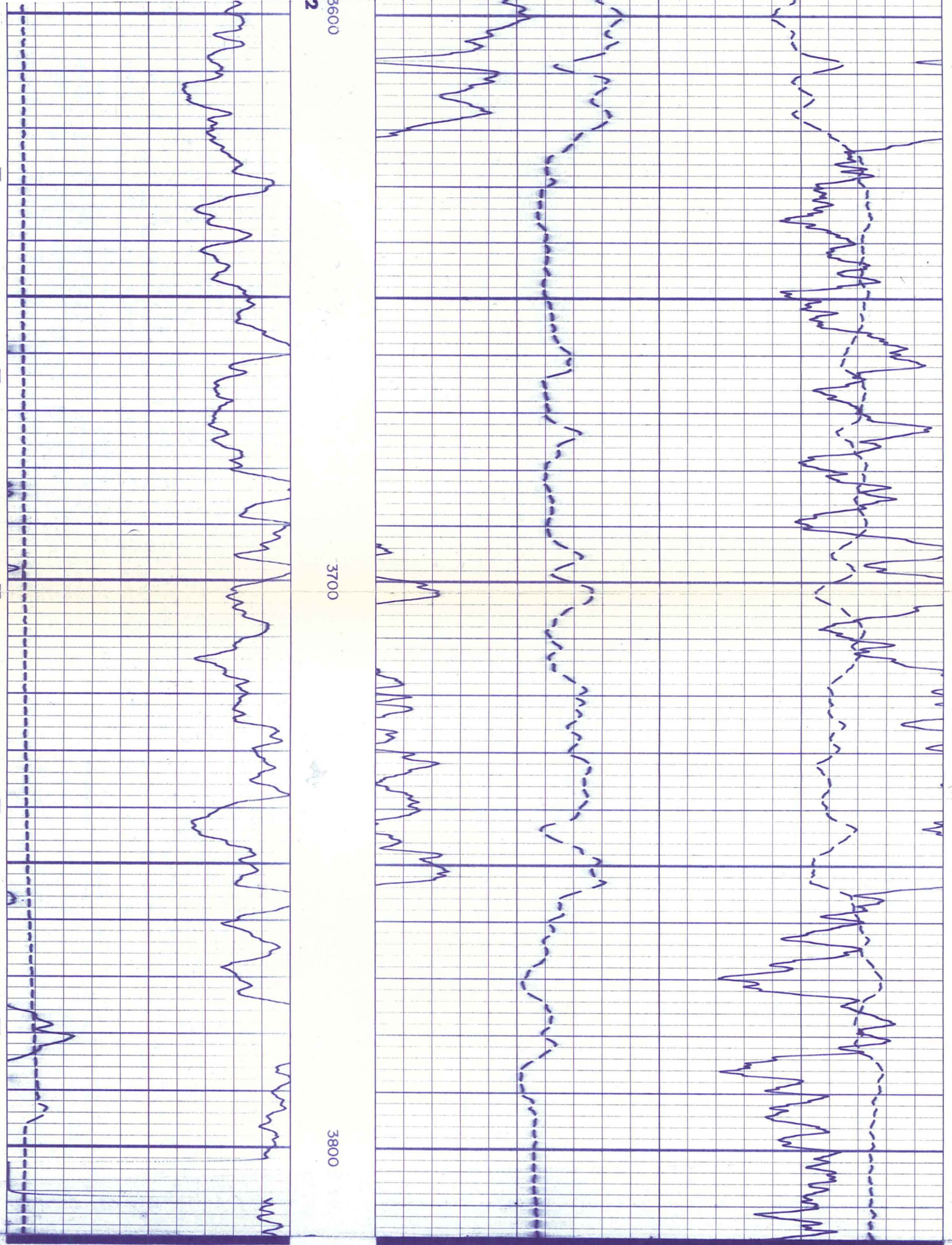
<b>Company</b>	E. G. & G. IDAHO INC.	<b>Drillers T.D.</b>	3858
<b>Well</b>	R.R.G.1. #7	<b>Log F.R.</b>	3789
<b>Field</b>	RAFT RIVER GEOTHERMAL	<b>Log T.D.</b>	3791
<b>County</b>		<b>Elevation</b>	

<b>GAMMA RAY</b>	<b>DEPTH</b>	<b>COMPENSATED DENSILOG</b>
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<b>Company</b>	E. G. & G. IDAHO INC.	<b>Drillers T.D.</b>	3858		
<b>Well</b>	R.R.G.I. #7	<b>Log F.R.</b>	3789		
<b>Field</b>	RAFT RIVER GEOTHERMAL	<b>Log T.D.</b>	3791		
<b>County</b>	CASSIA	<b>Elevations:</b>			
<b>State</b>	IDAHO	<b>K.B.</b>	4871	<b>D.F.</b>	4870
				<b>G.L.</b>	4855

**REPEAT SECTION**



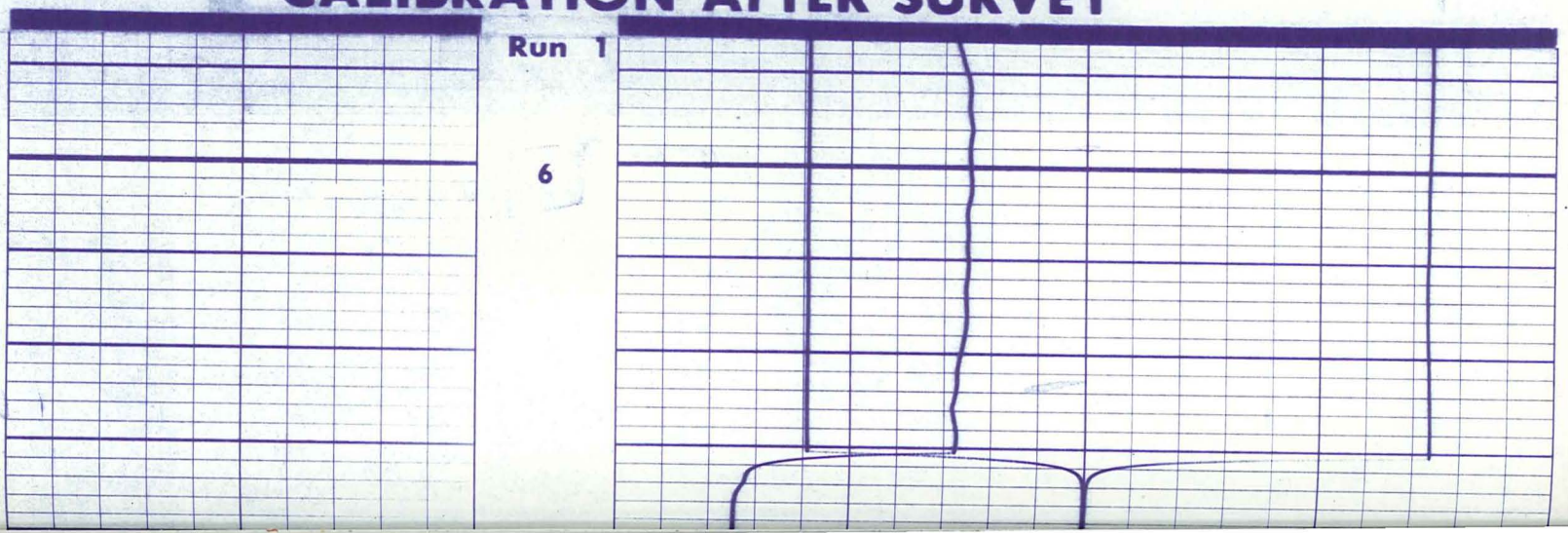


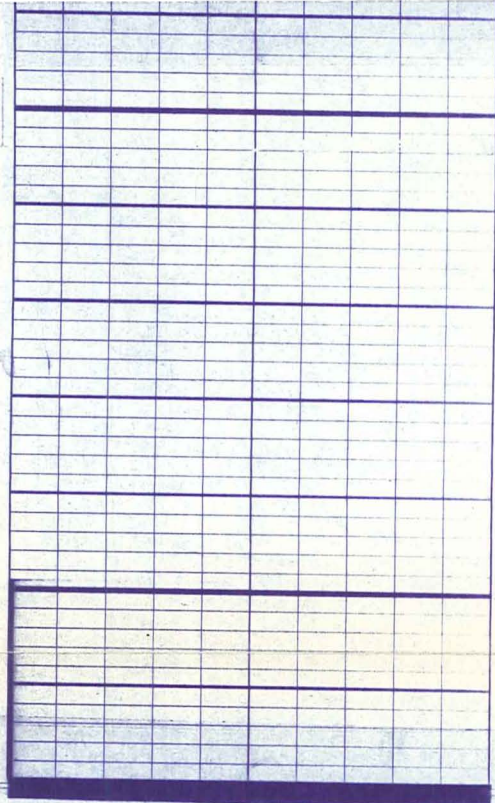
### CALIBRATION

#### COMPENSATED NEUTRON

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

### CALIBRATION AFTER SURVEY



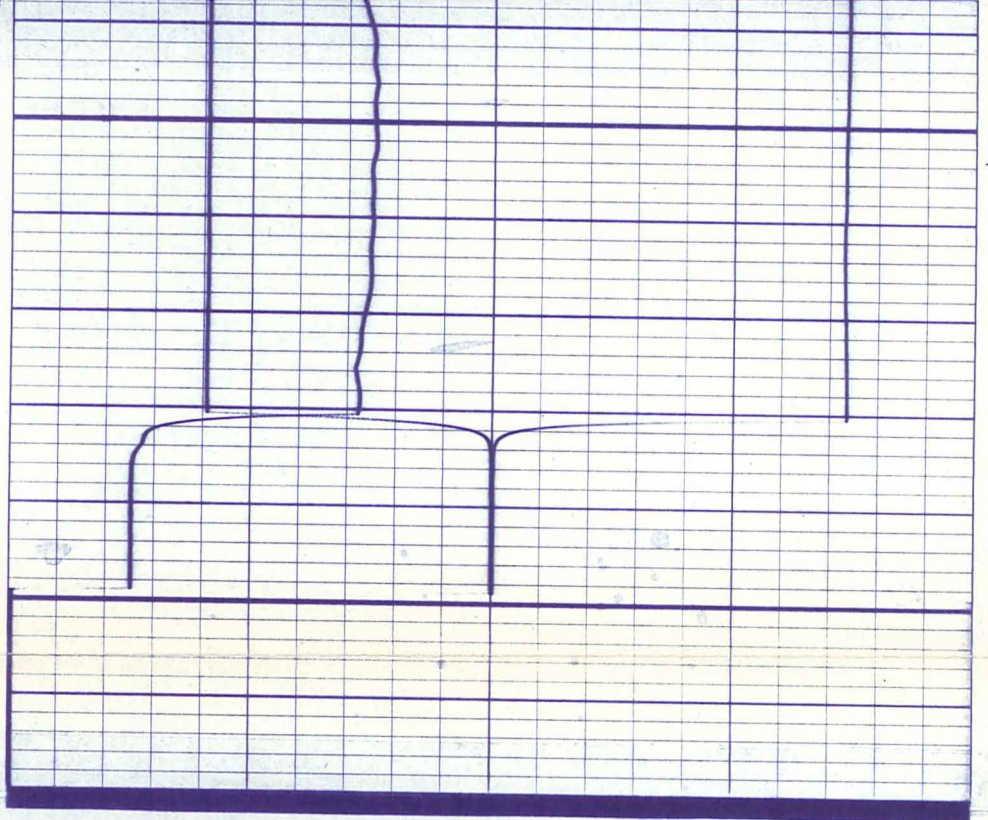


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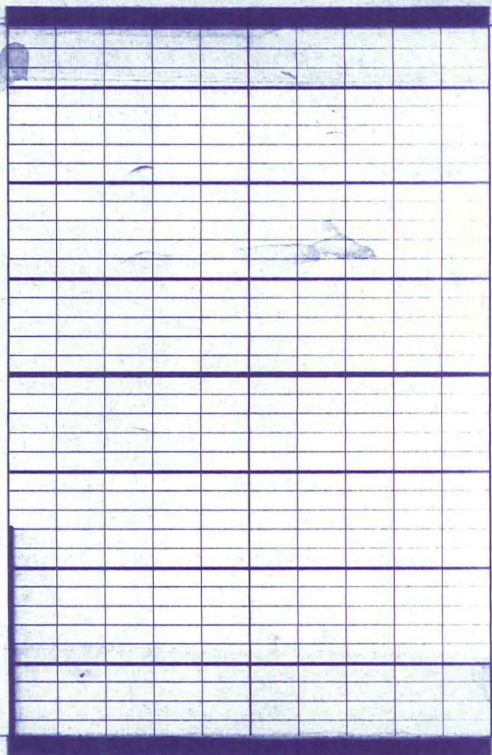
3

2

1



**CALIBRATION BEFORE SURVEY**

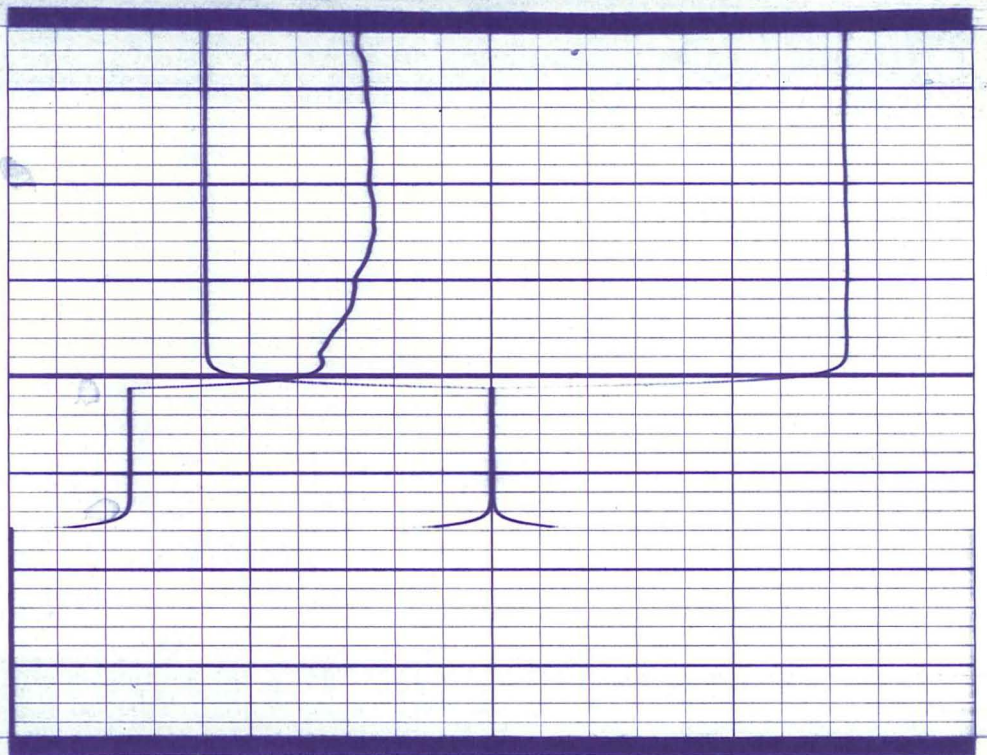


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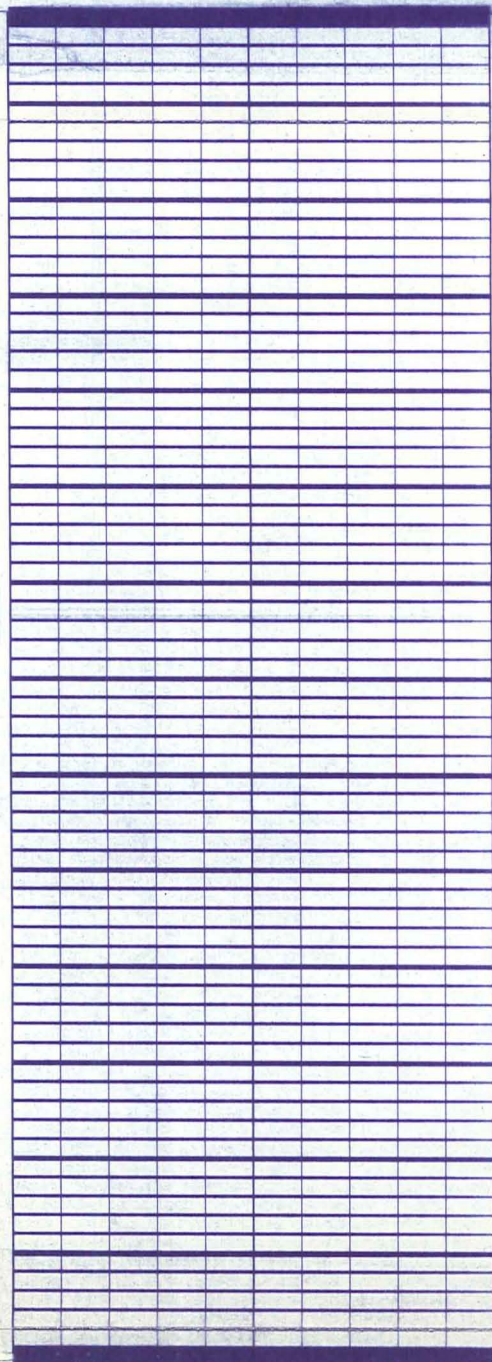
3

2

1



**CALIBRATION AFTER SURVEY**



Run 2

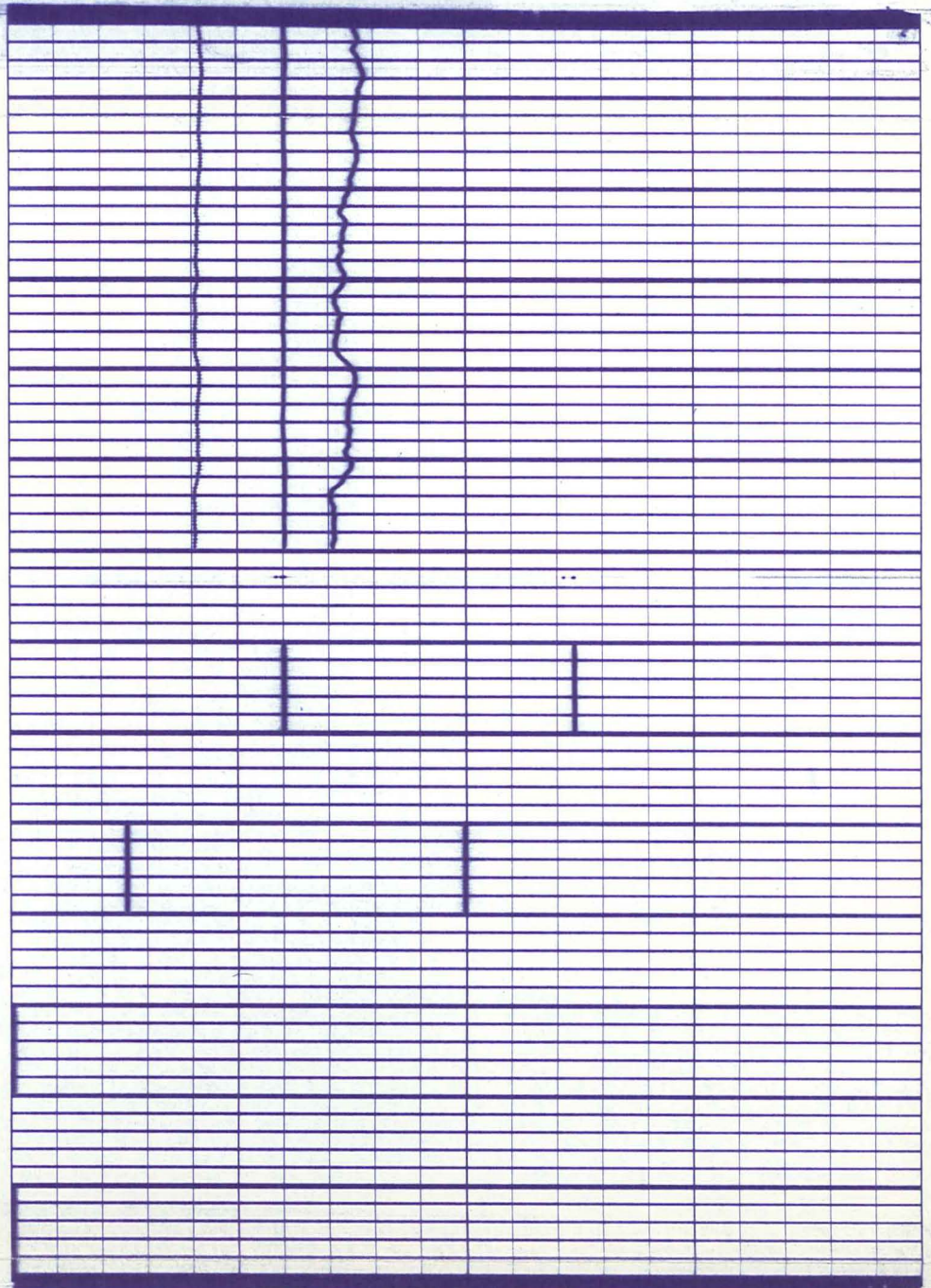
6

5

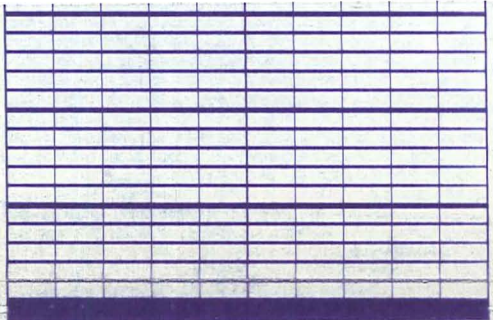
3

2

1

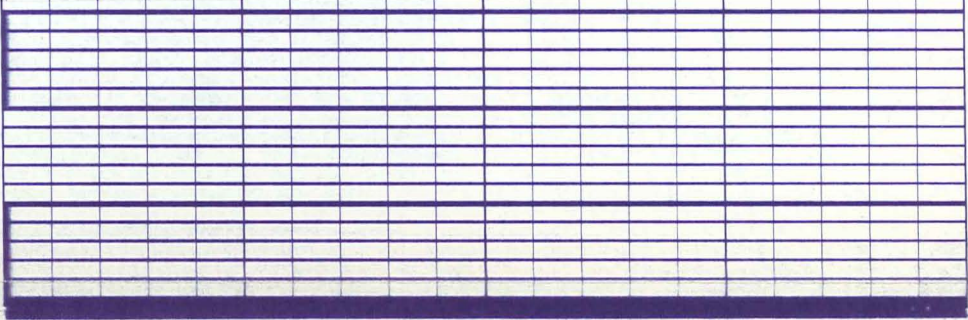


**CALIBRATION BEFORE SURVEY**

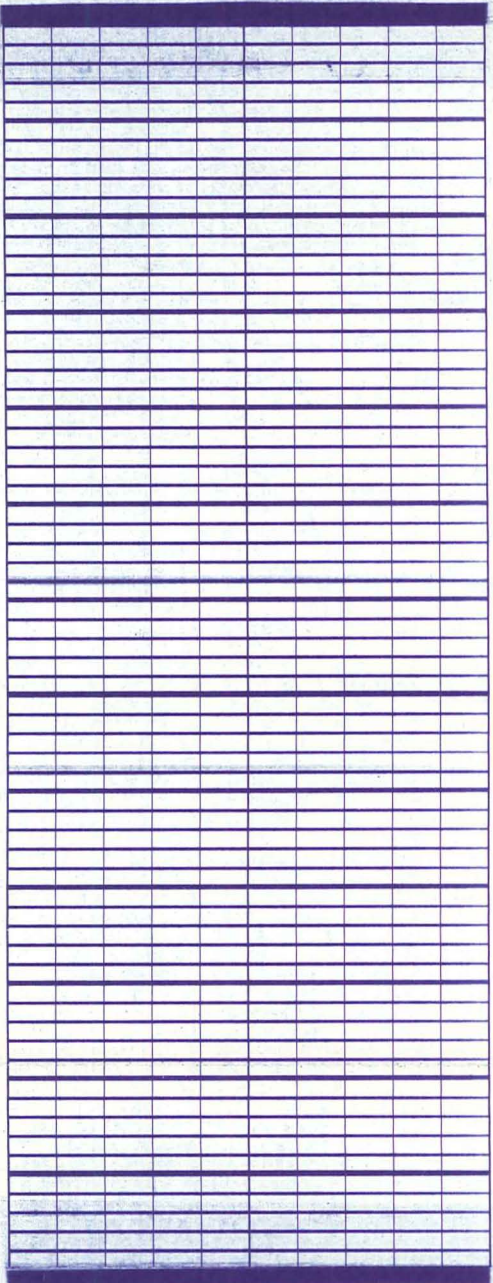


2

1



**CALIBRATION BEFORE SURVEY**



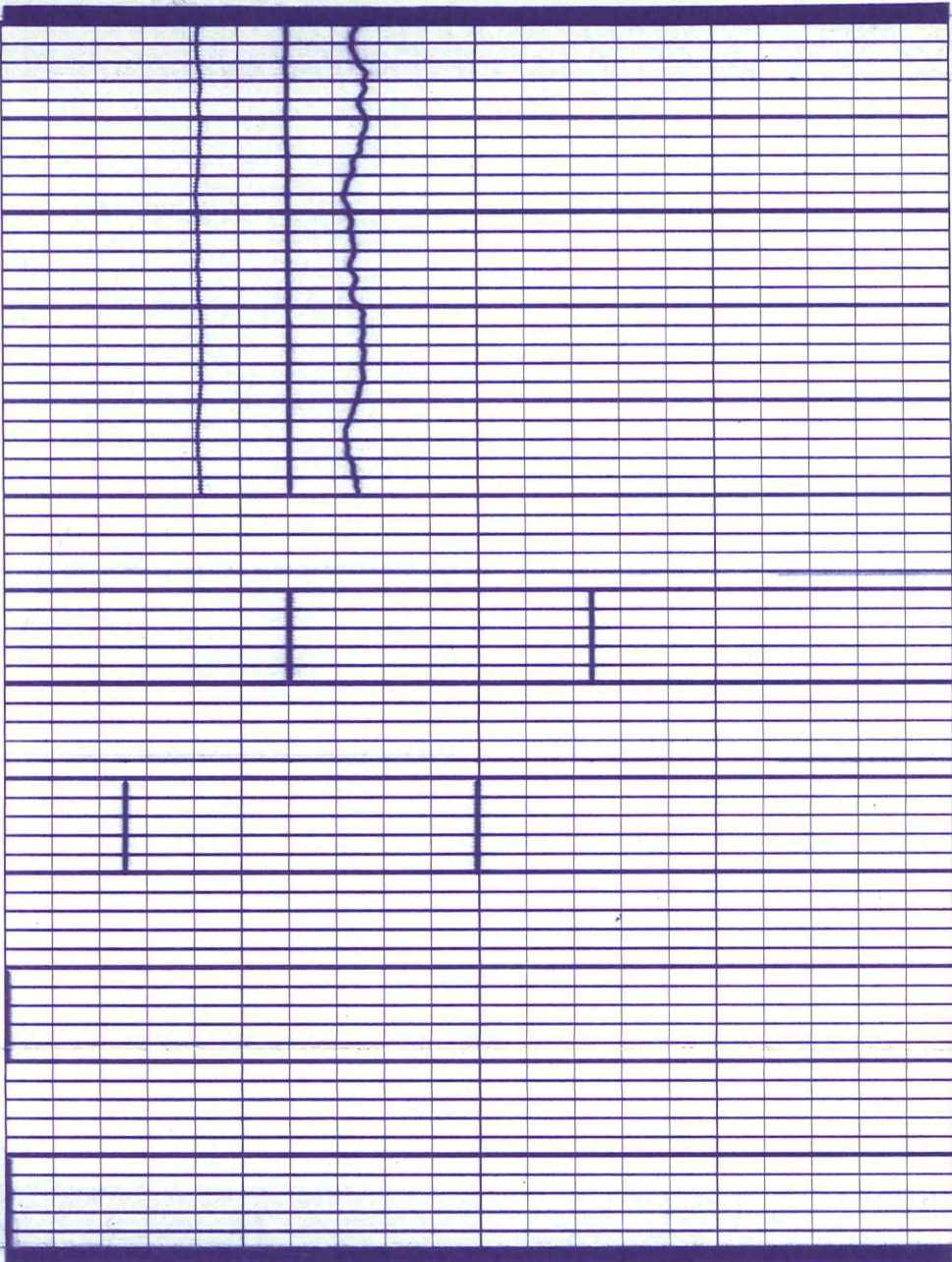
6

5

3

2

1



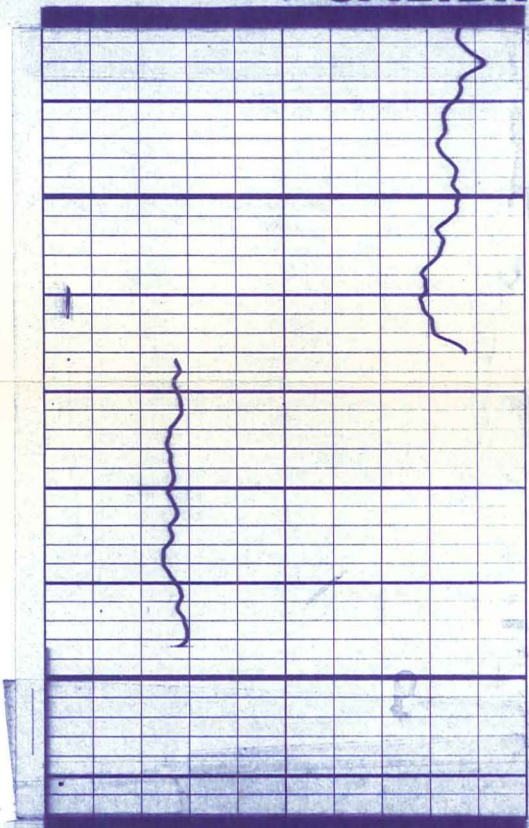
**CALIBRATION**

**GAMMA RAY**

- 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 .....	X2
ZERO SUPPRESSION .....	0
TIME CONSTANT .....	X2
MEASURED CHART DIVISIONS .....	6

**CALIBRATION AFTER SURVEY**



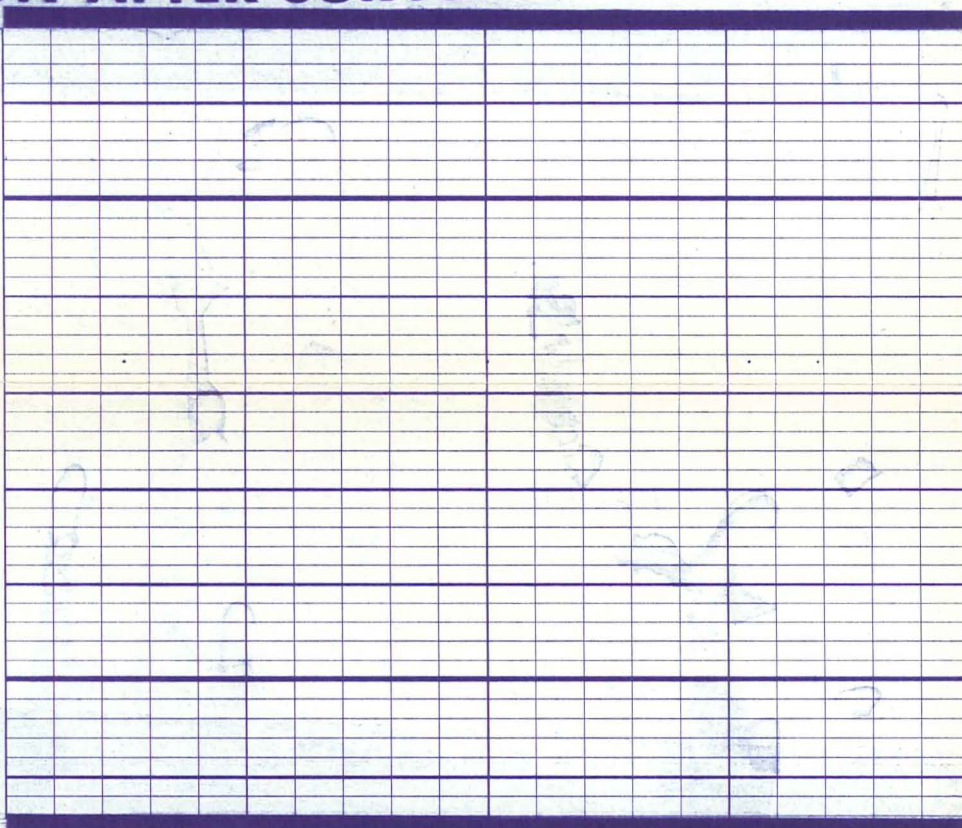
Run 1

6

5

2

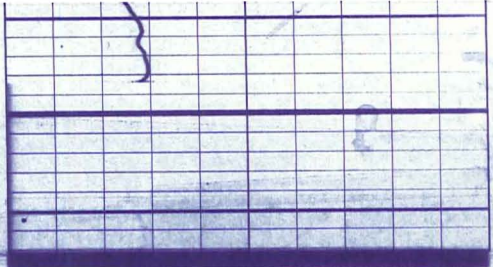
1



**CALIBRATION BEFORE SURVEY**

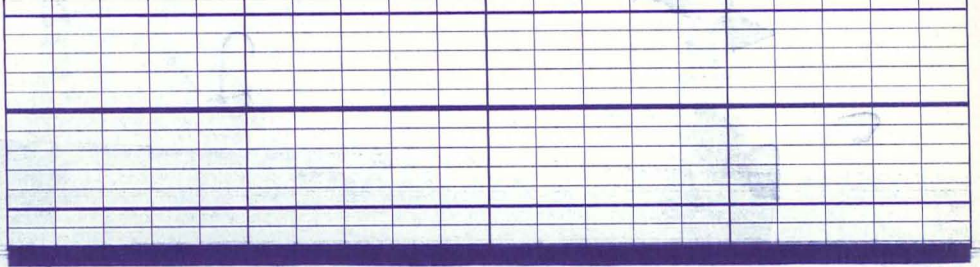
928275 GR



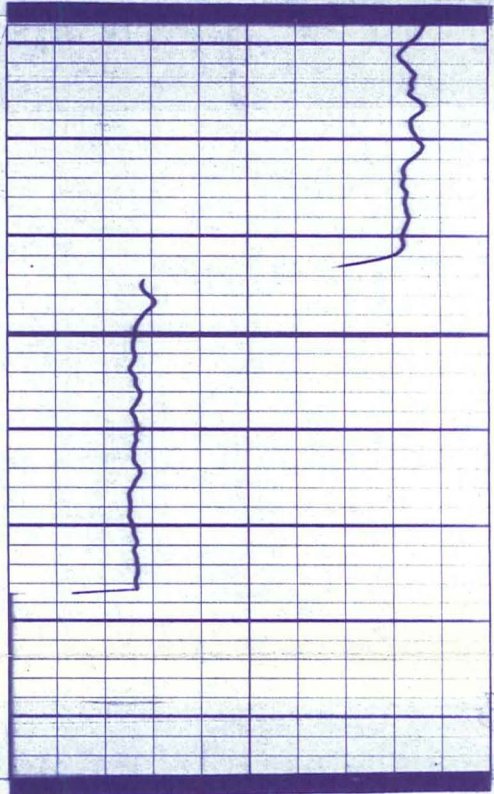


2

1



### CALIBRATION BEFORE SURVEY

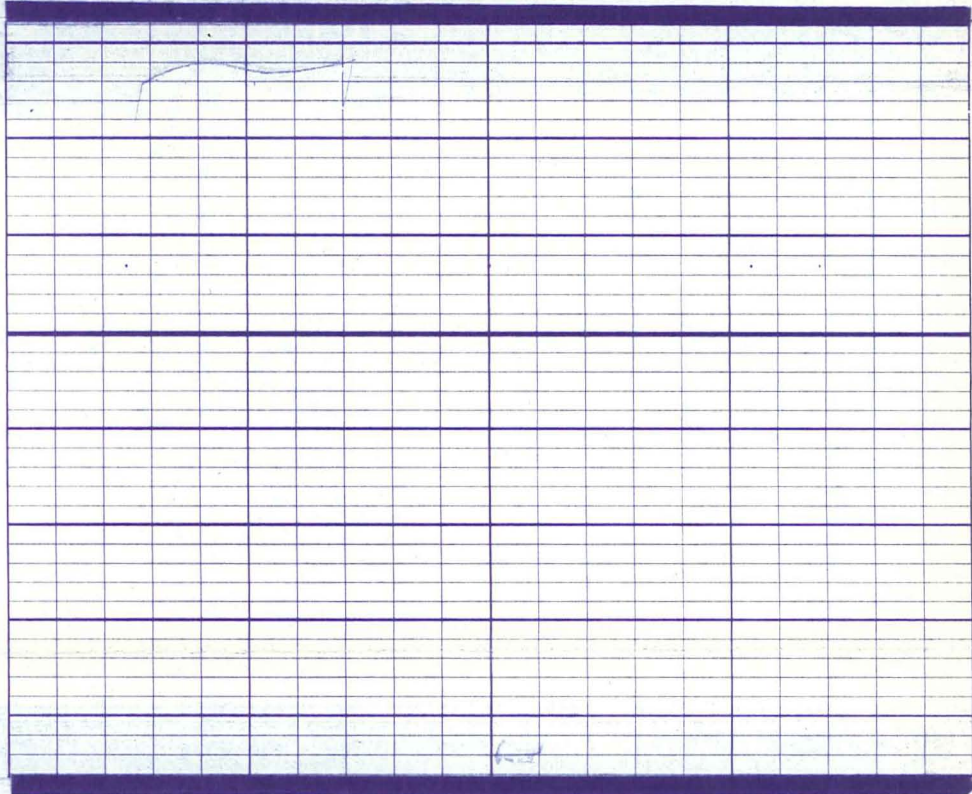


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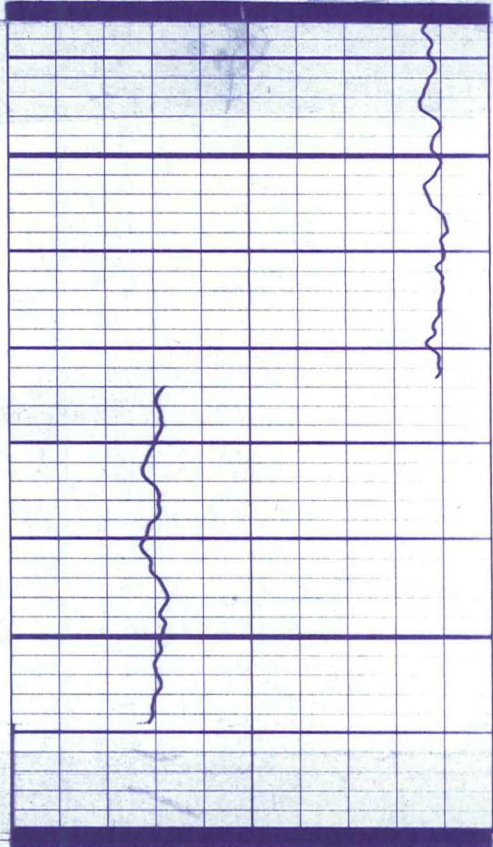
5

2

1



### CALIBRATION AFTER SURVEY



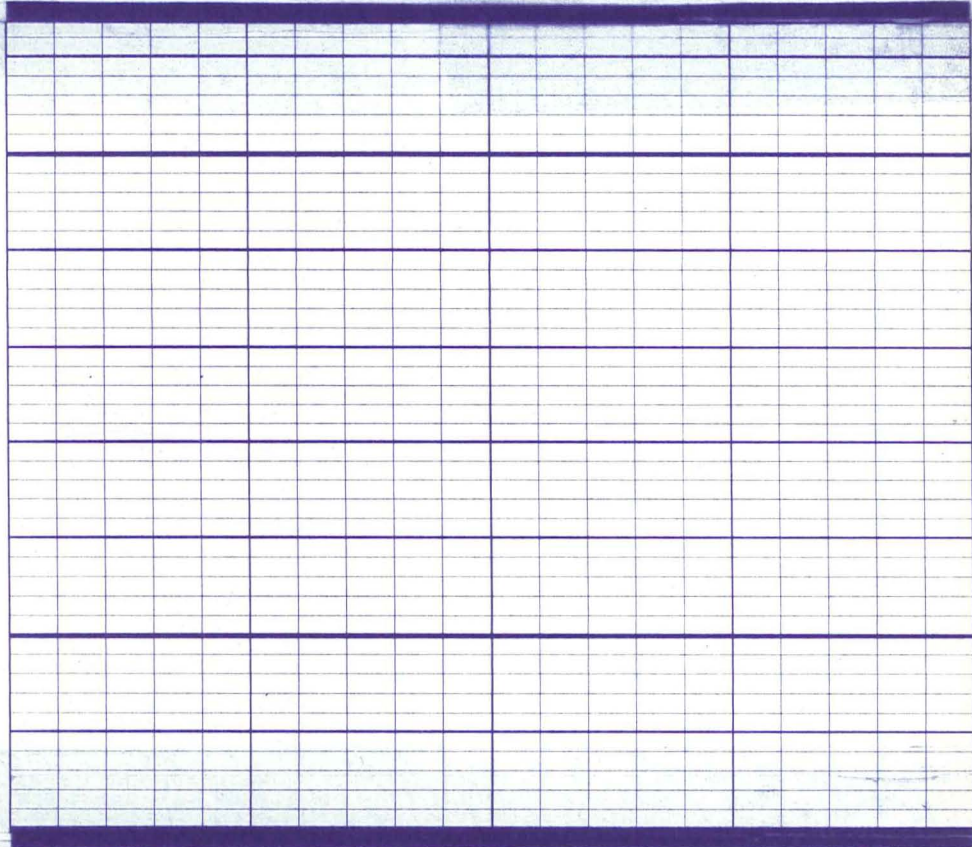
Run 2

6

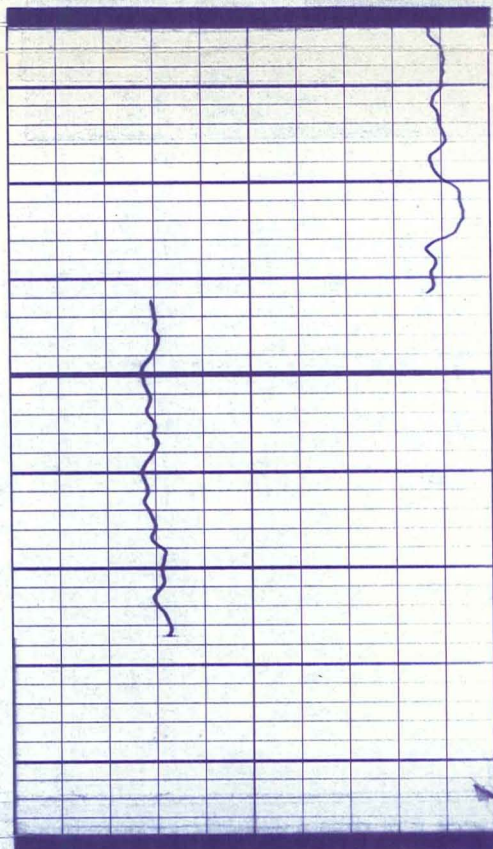
5

2

1



### CALIBRATION BEFORE SURVEY



6

5

2

1

