

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMLC061842

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
FLAT HEAD FEDERAL COM 25H9. API Well No.  
30-025-43109-00-X110. Field and Pool or Exploratory Area  
MALJAMAR11. County or Parish, State  
LEA COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

JUL 17 2017

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1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
COG OPERATING LLCContact: KANICIA CASTILLO  
E-Mail: kcastillo@concho.com3a. Address  
ONE CONCHO CENTER 600 W ILLINOIS AVENUE  
MIDLAND, TX 79701-42873b. Phone No. (include area code)  
Ph: 432-685-43324. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 14 T17S R32E Lot B 1015FNL 2310FEL

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |                                               |                                                    |                                           |
|-------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen               | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off   |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Hydraulic Fracturing | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity   |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction     | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other |
|                                                       | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon     | <input type="checkbox"/> Temporarily Abandon       | Drilling Operations                       |
|                                                       | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back            | <input type="checkbox"/> Water Disposal            |                                           |

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Please see attached logs.

**Denied** NMOCB  
PAUL KARTZ@STATE.NM.US  
LOGS MUST BE SUBMITTED  
ON CONTINUOUS PAPER  
SUBMIT LOGS IN CORRECT  
FORMAT

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #373627 verified by the BLM Well Information System  
For COG OPERATING LLC, sent to the Hobbs  
Committed to AFMSS for processing by DEBORAH MCKINNEY on 04/24/2017 (17DLM0913SE)

Name (Printed/Typed) KANICIA CASTILLO

Title PREPARER

Signature (Electronic Submission)

Date 04/21/2017

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTED

ZOTA STEVENS  
Title PET

Date 07/10/2017

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*





## Cased Compensated Neutron Log

Company COG Operating L.L.C.

Well Flat Head Fed Com 25H

Field Maljamar

County Lea State New Mexico

Location: API # : 30-025-43109  
1015' FNL & 2310' FEL  
Sec 14, T17S,R32E  
SEC TWP RGE  
Permanent Datum Ground Level Elevation 4088 FT  
Log Measured From Kelley Bushing 18 FT APD  
Drilling Measured From Kelley Bushing  
Other Services  
RCBL / JB  
Elevation  
K.B. 4106 FT  
D.F. 4105 FT  
G.L. 4088 FT

|                        |                |
|------------------------|----------------|
| Date                   | 09-FEB-2017    |
| Run Number             | One            |
| Depth Driller          | 12574 FT       |
| Depth Logger           | 6909 FT        |
| Bottom Logged Interval | 6907 FT        |
| Top Log Interval       | Surface        |
| Open Hole Size         | 8.75 IN        |
| Type Fluid             | Water          |
| Density / Viscosity    | 8.33 Lb/g      |
| Max. Recorded Temp.    | 115 F          |
| Estimated Cement Top   | NA             |
| Time Well Ready        | 07:00 AM       |
| Time Logger on Bottom  | 08:30 AM       |
| Equipment Number       | 12030          |
| Location               | Midland, TX    |
| Recorded By            | Jose Lagos     |
| Witnessed By           | Darin Chandler |

| Borehole Record |          |         |          | Tubing Record |        |      |    |
|-----------------|----------|---------|----------|---------------|--------|------|----|
| Run Number      | Bit      | From    | To       | Size          | Weight | From | To |
| One             | 17.5 IN  | Surface | 1131 FT  |               |        |      |    |
| Two             | 12.25 IN | 1131 FT | 2817 FT  |               |        |      |    |
| Three           | 8.75 IN  | 2817 FT | 12574 FT |               |        |      |    |

| Casing Record     | Size            | Wgt/Ft   | Top     | Bottom   |
|-------------------|-----------------|----------|---------|----------|
| Surface String    | 13.375 IN       | 54.5 PPF | Surface | 1131 FT  |
| Prot. String      | 9.625 IN        | 40 PPF   | Surface | 2817 FT  |
| Production String | 7 IN            | 29 PPF   | Surface | 5816 FT  |
| Liner             | 5.5 IN          | 17 PPF   | 5816 FT | 12574 FT |
| Marker Joint      | 5199 FT-5222 FT |          |         |          |

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 interpretation, 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 our general terms and conditions set out in our current Price Schedule.

Comments

**HOBBS OCD**

JUL 17 2017

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Primary Log on Well

Log Correlated to Marker Joint at 5199 FT-5222 FT  
Depth Correction +4 FT  
Well logged using a +18 FT K.B.

Items Marked NA at Request of Customer or Information Unavailable

Thank you for Using Allied Horizontal Wireline Services.



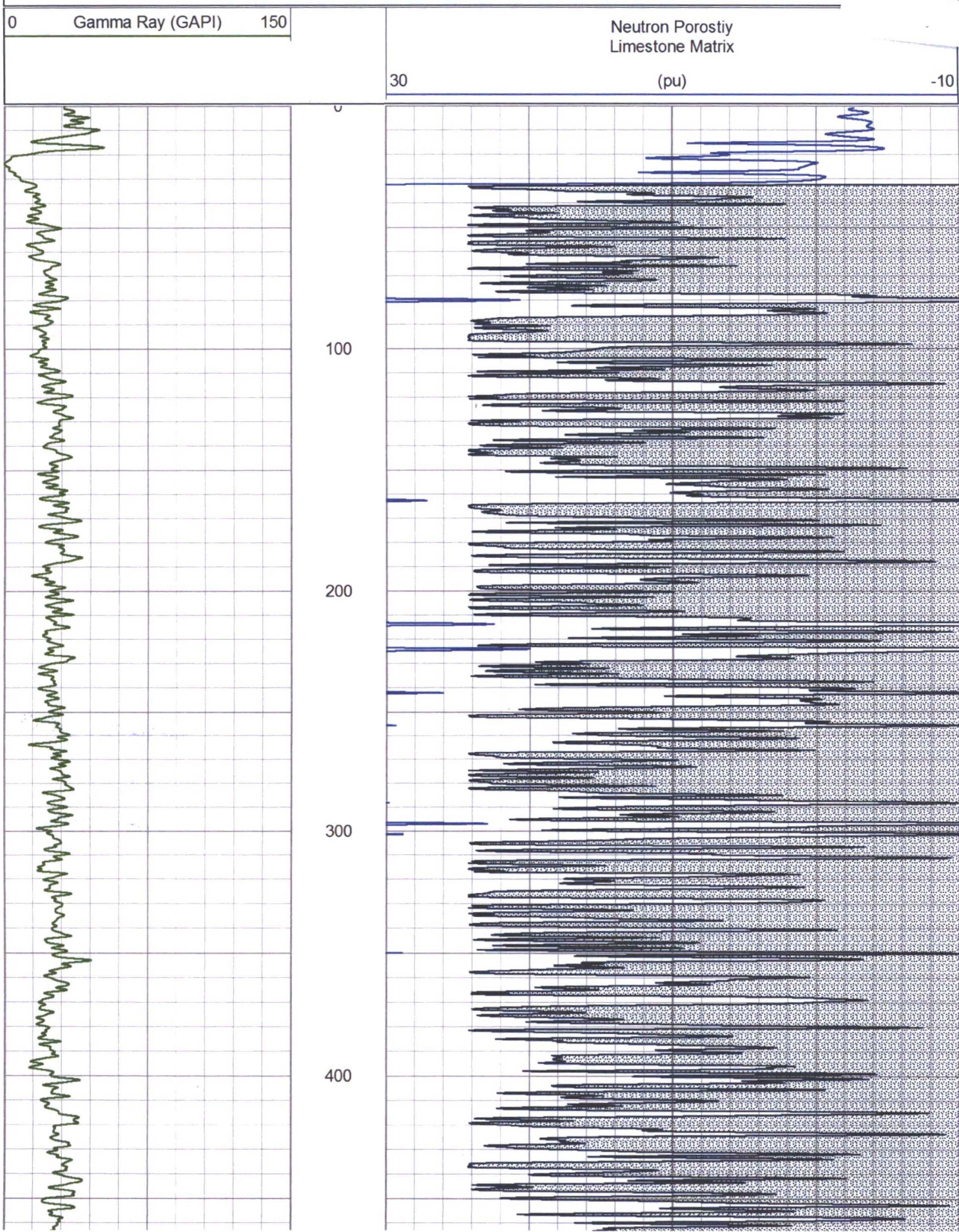
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<<< Fold Here >>>

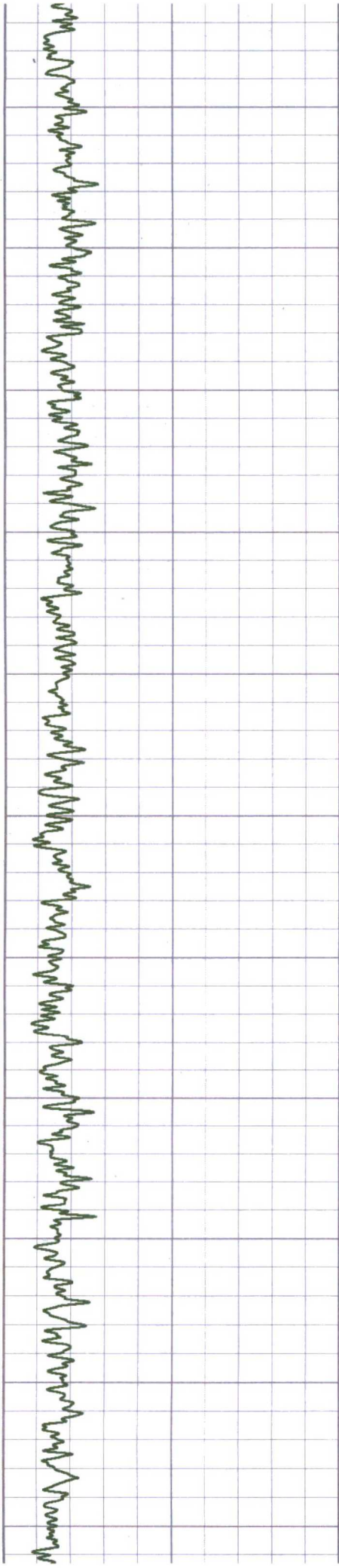


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Dataset Pathname: pass9  
Presentation Format: cnl2inch  
Dataset Creation: Thu Feb 09 08:19:54 2017 by Log 7.0 B1  
Charted by: Depth in Feet scaled 1:600

Sum  
Prot. S  
Production  
Liner  
Marker Joint







500

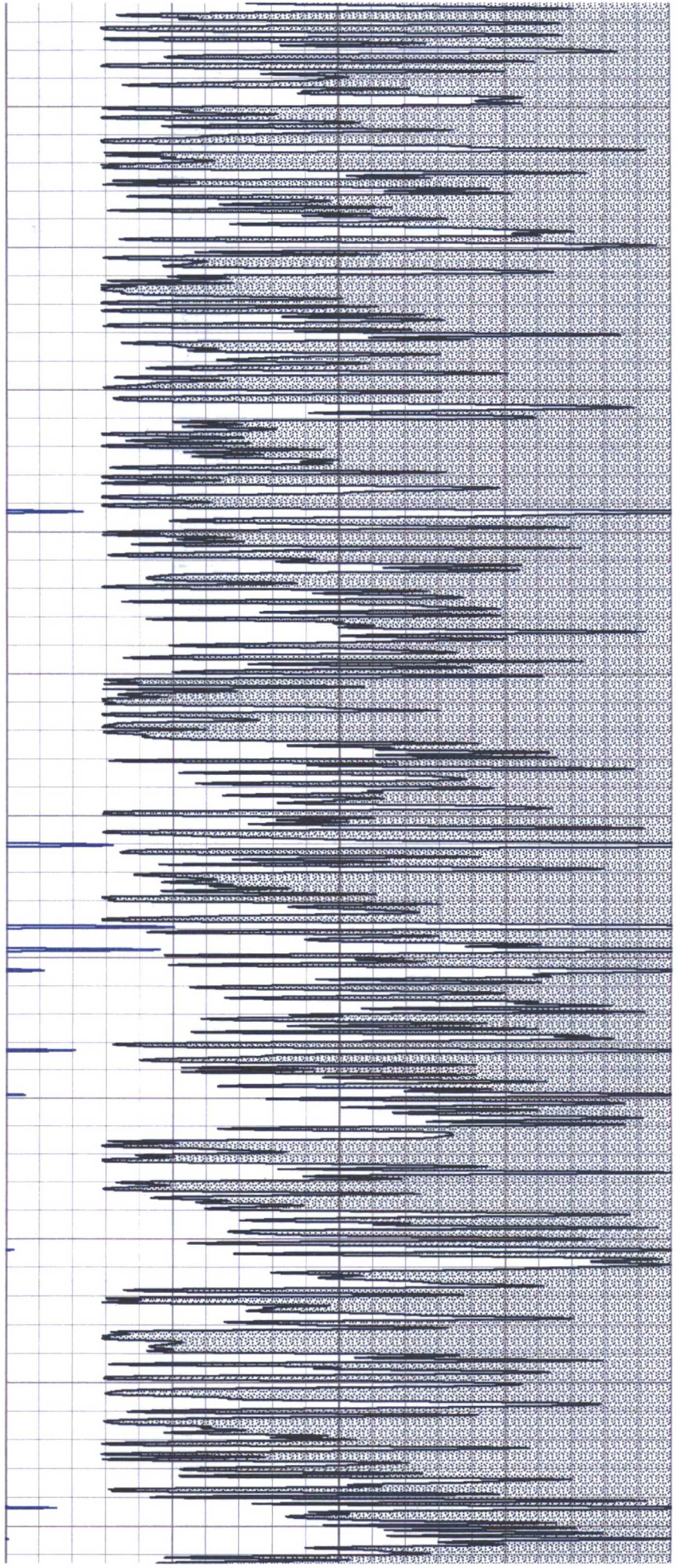
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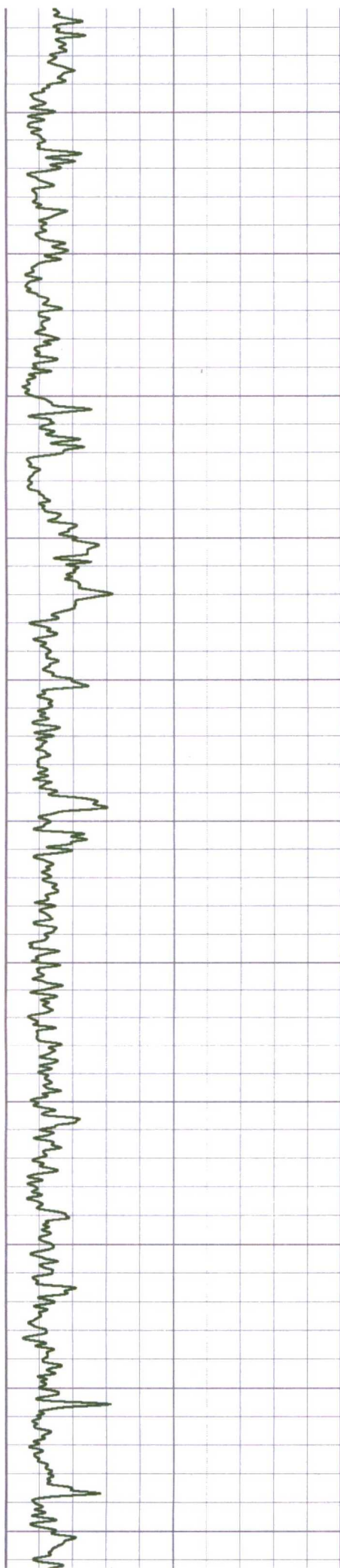
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900

1000







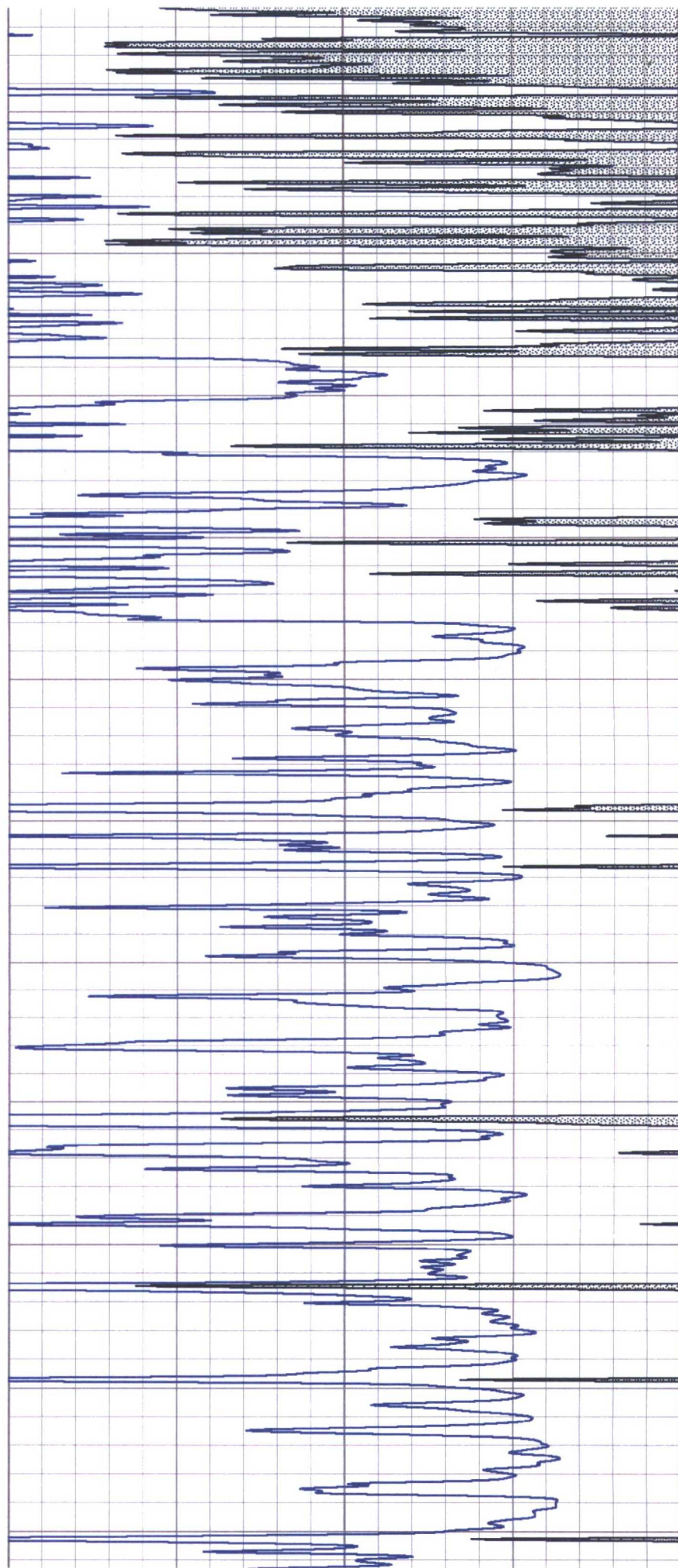
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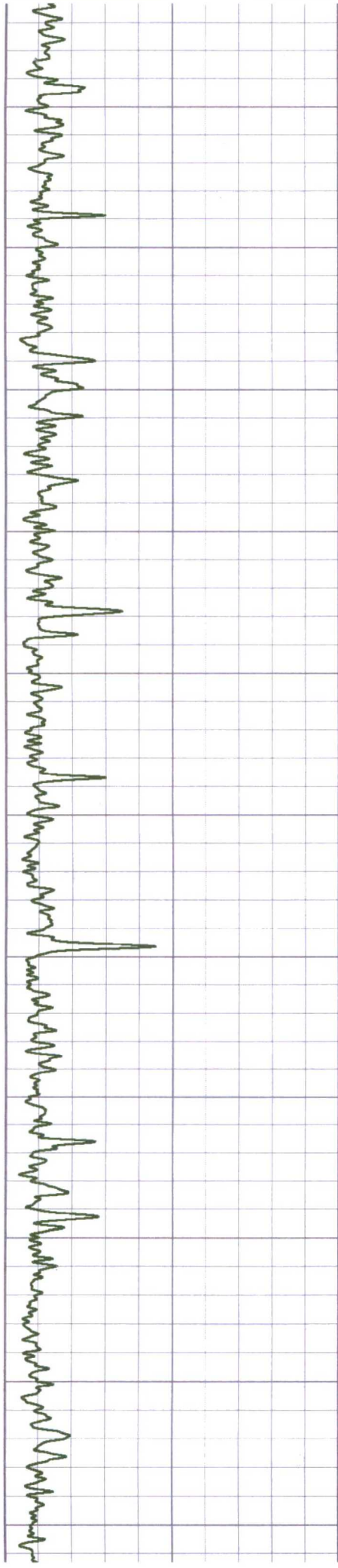
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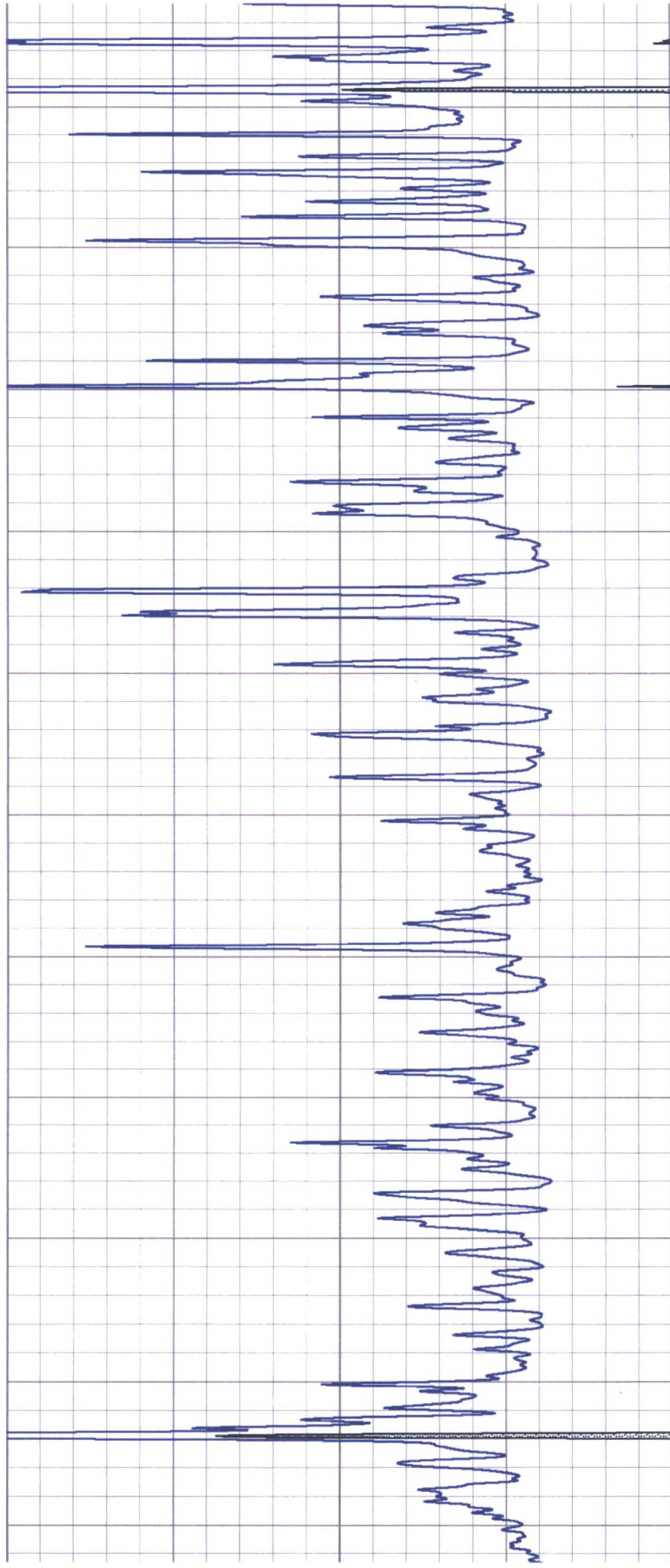
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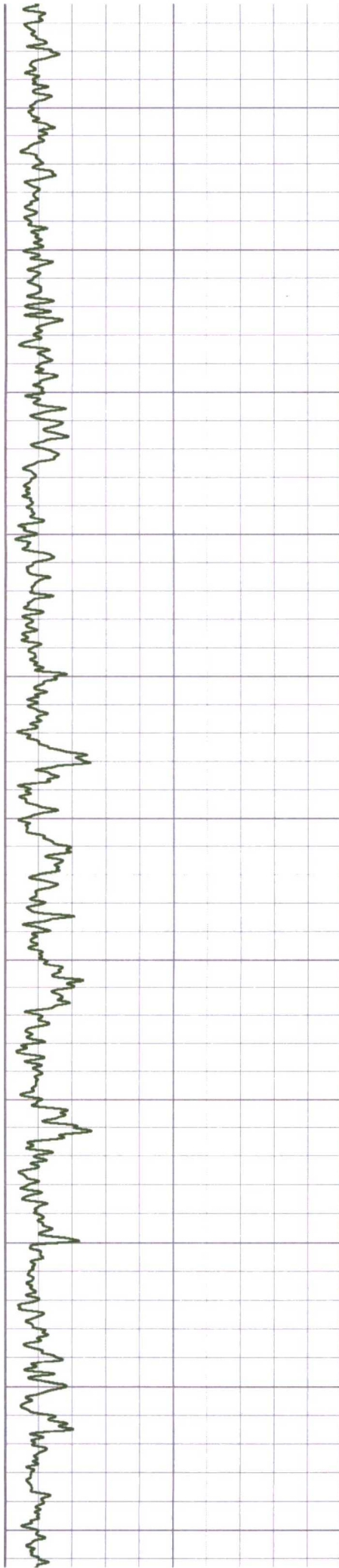




1600  
1700  
1800  
1900  
2000  
2100







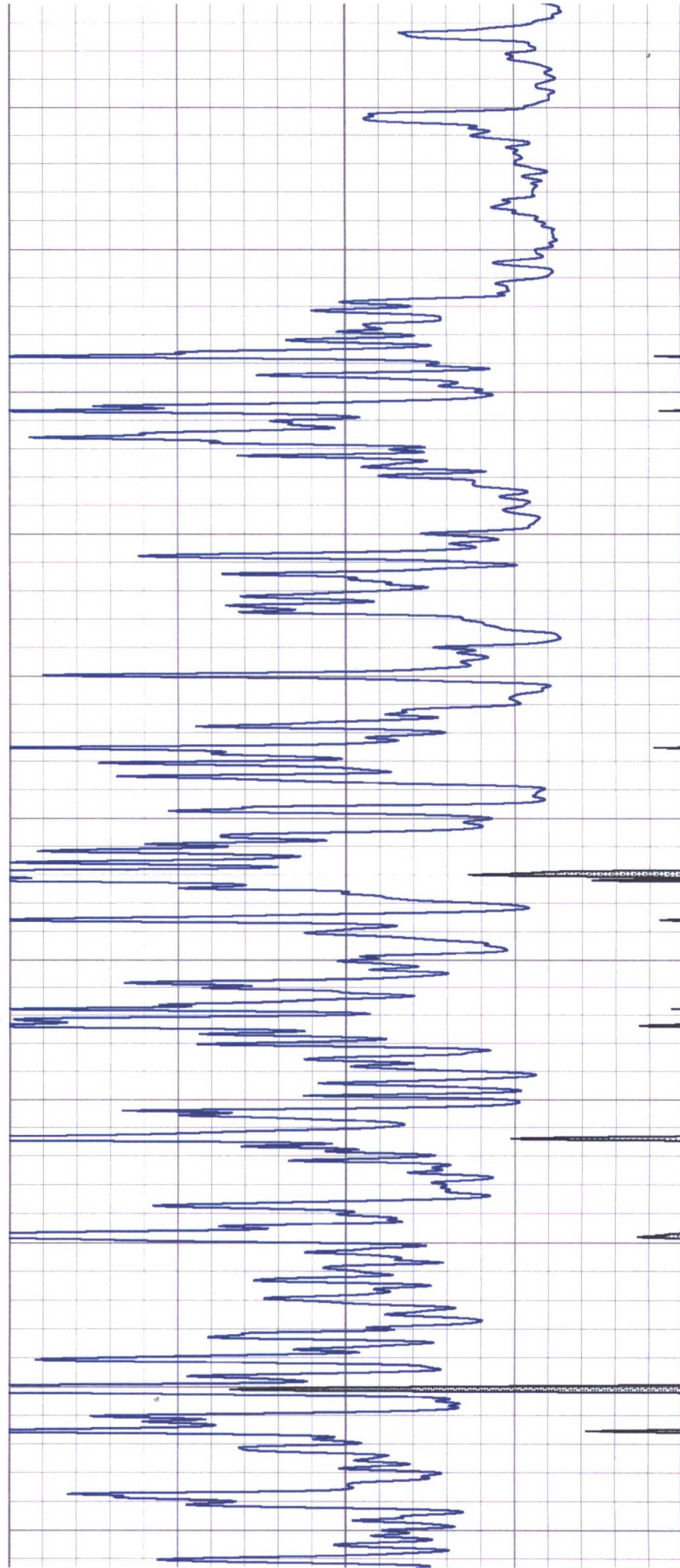
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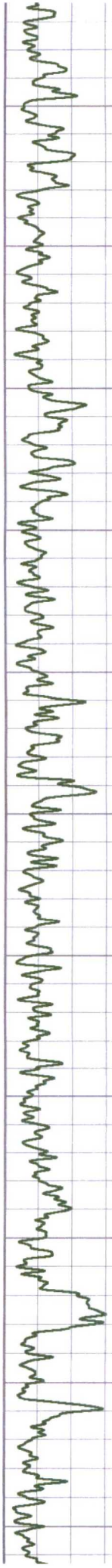
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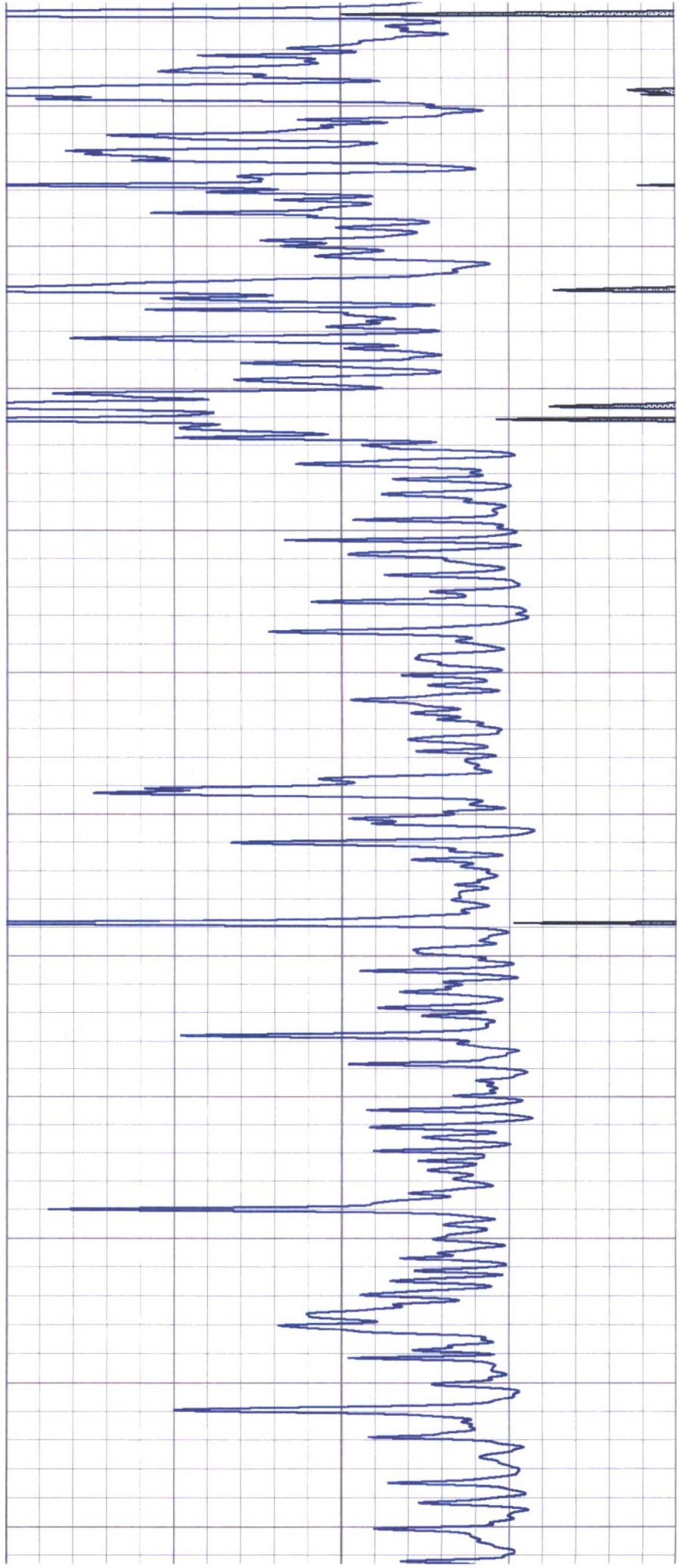
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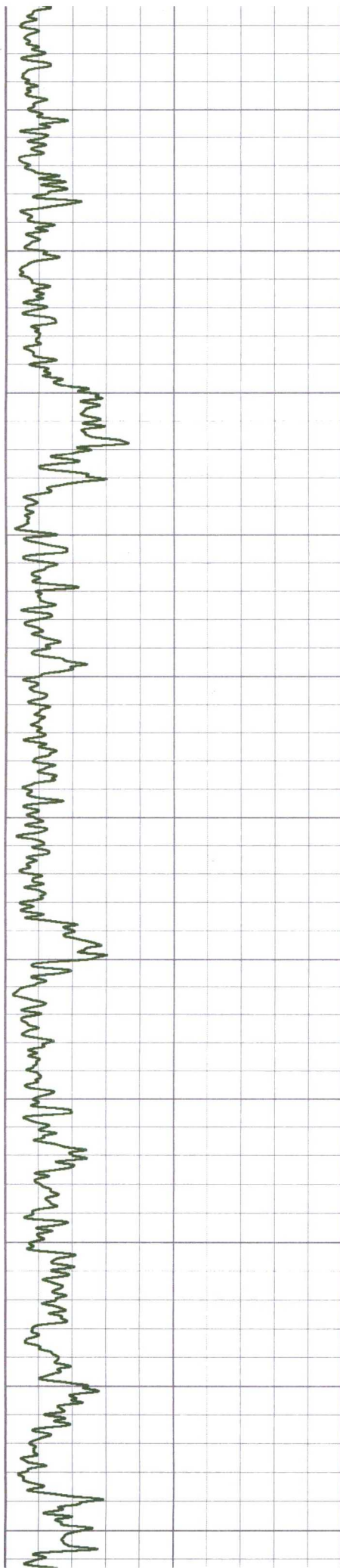




2700  
2800  
2900  
3000  
3100  
3200







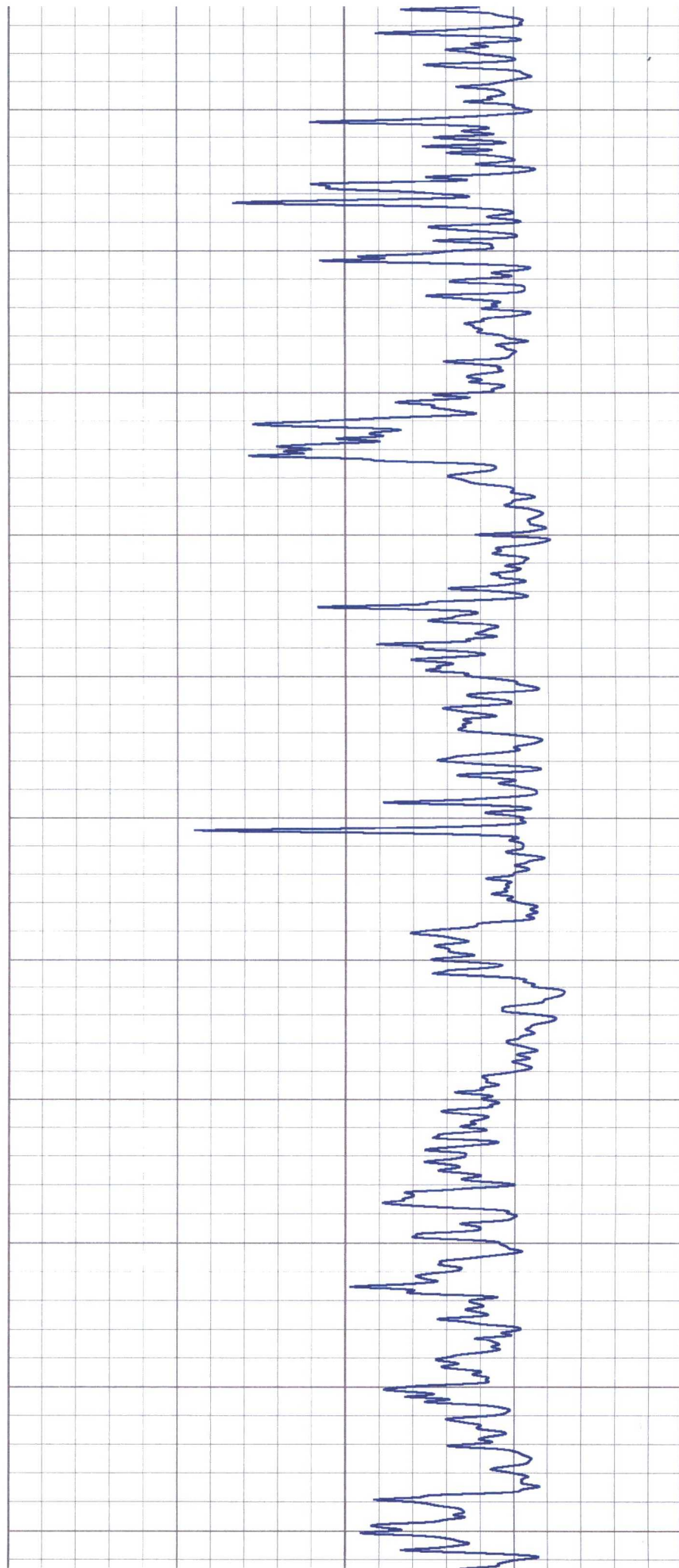
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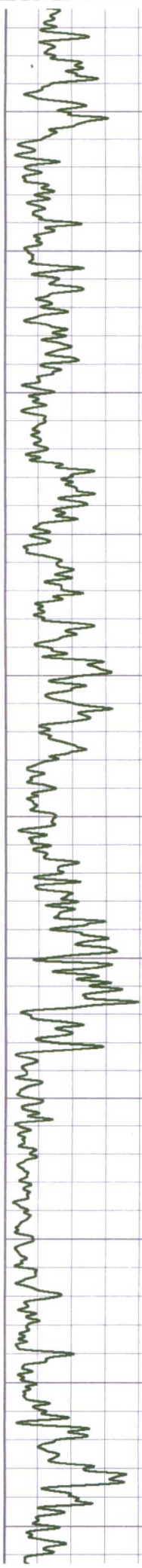
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3700







3800

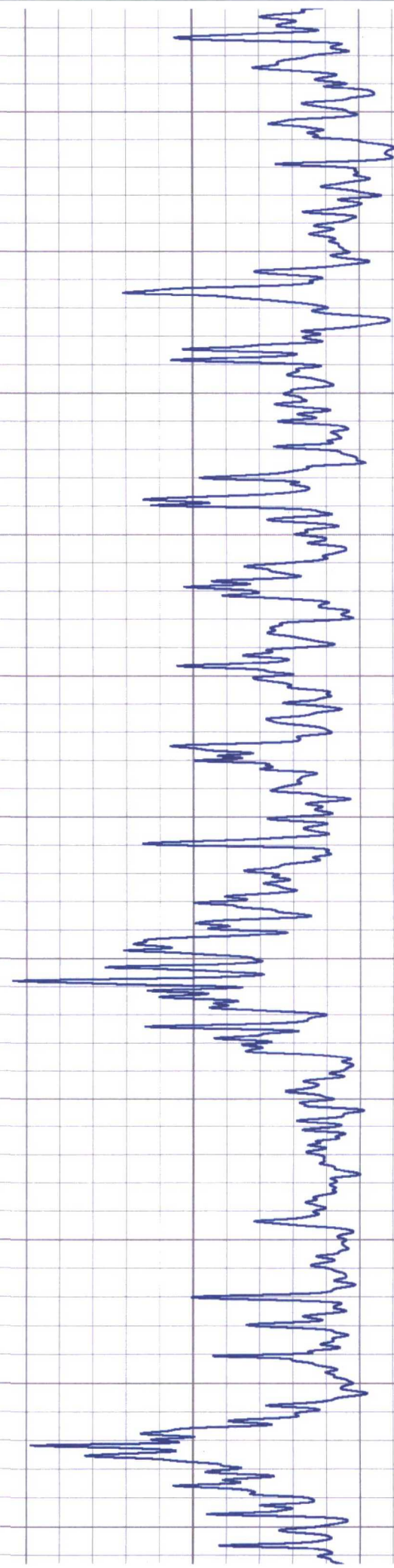
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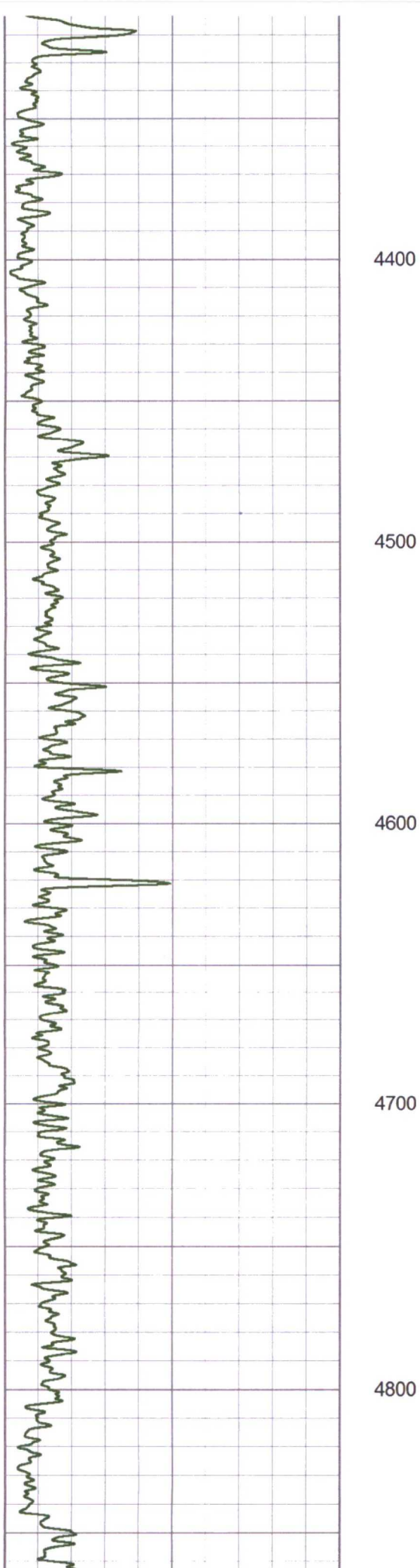
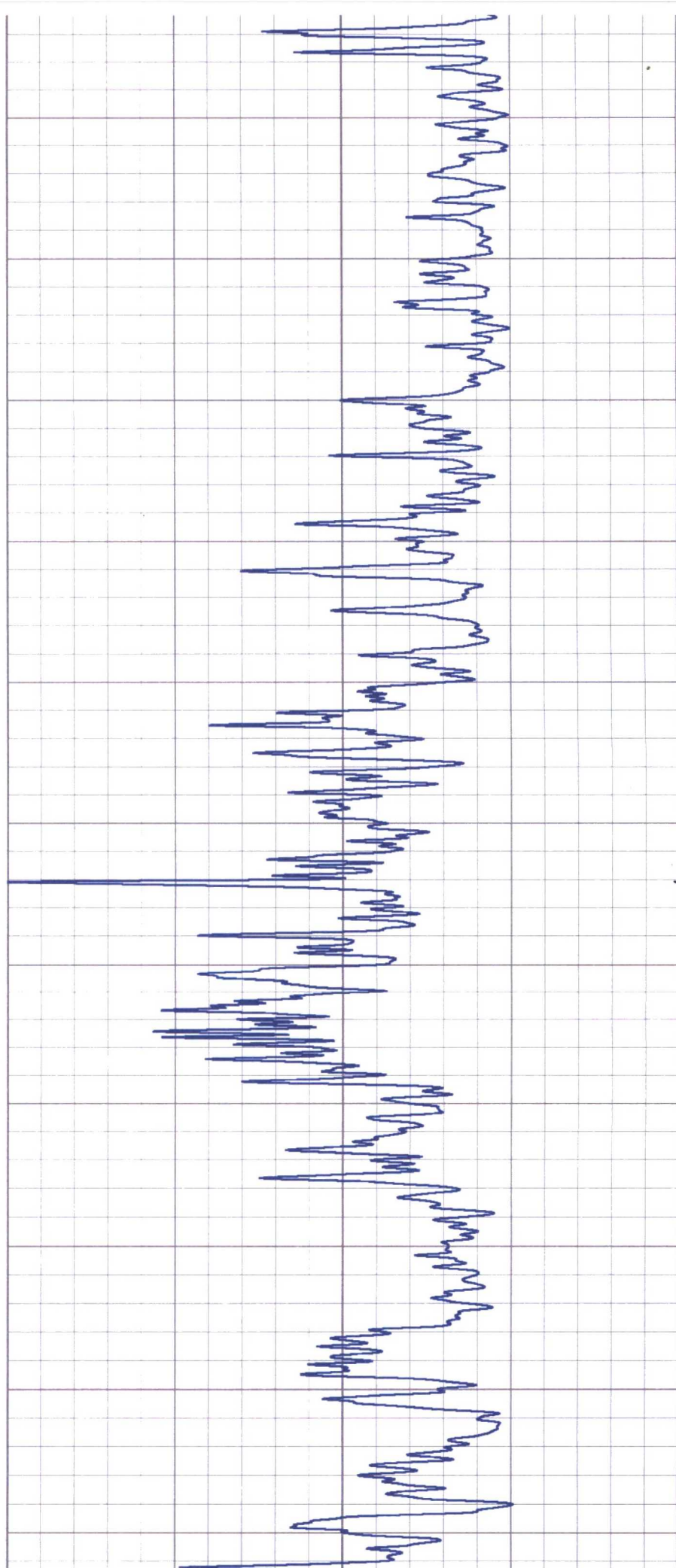
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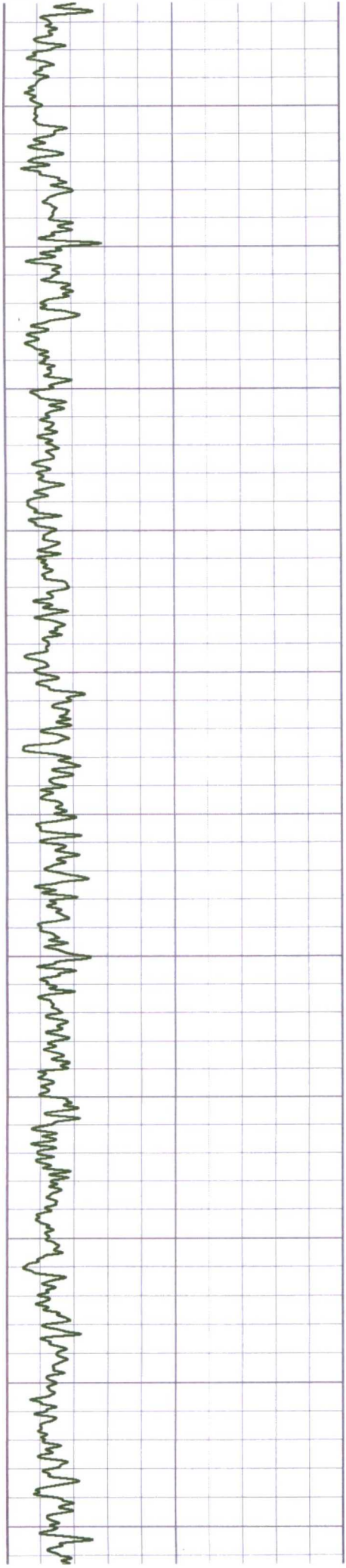
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4900

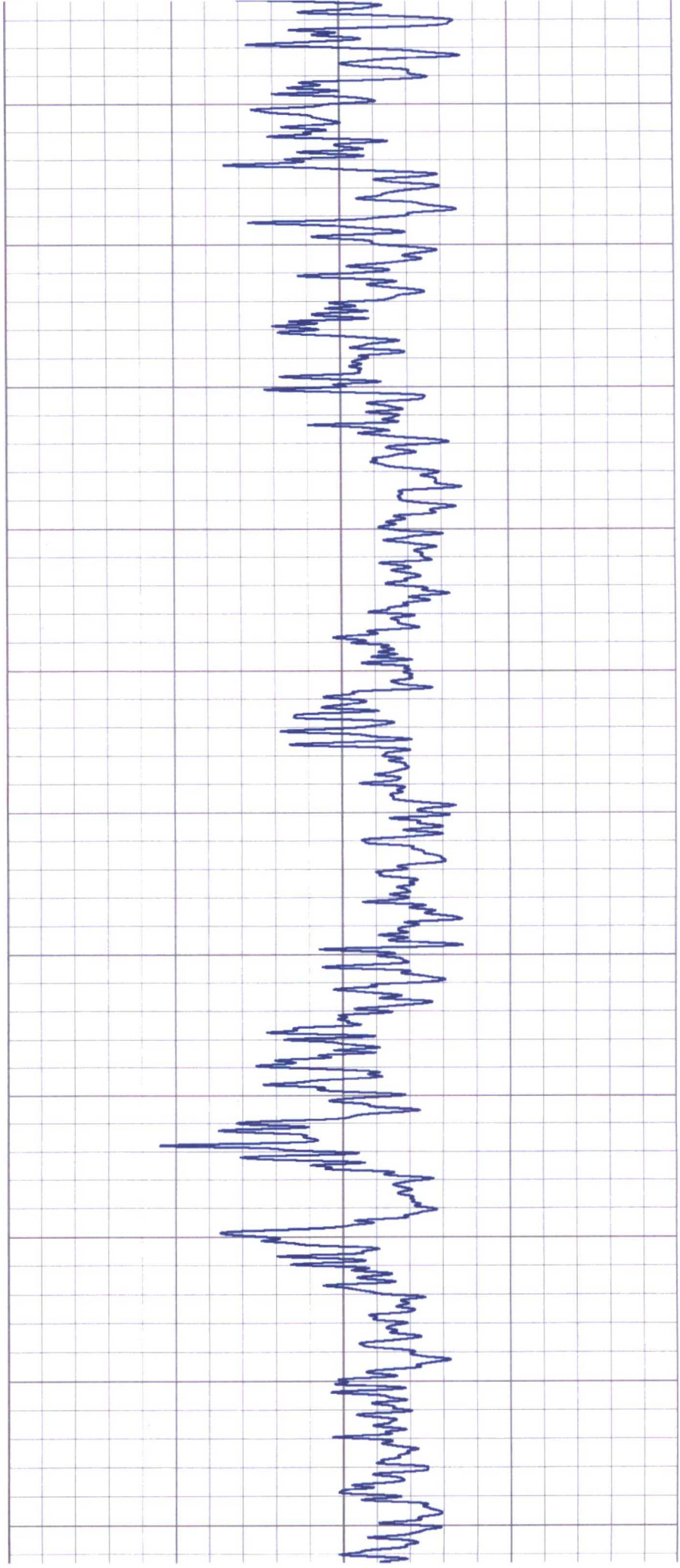
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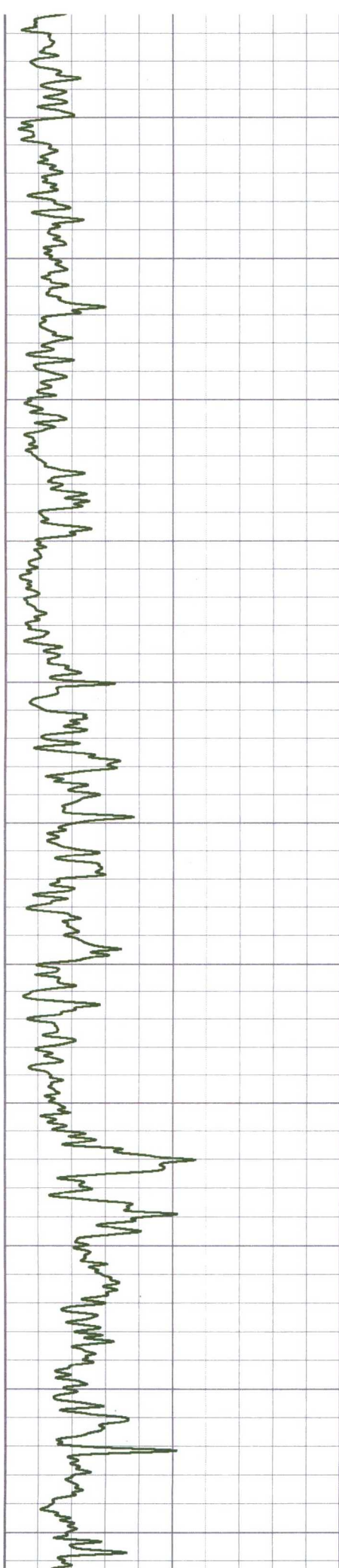
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5300

5400







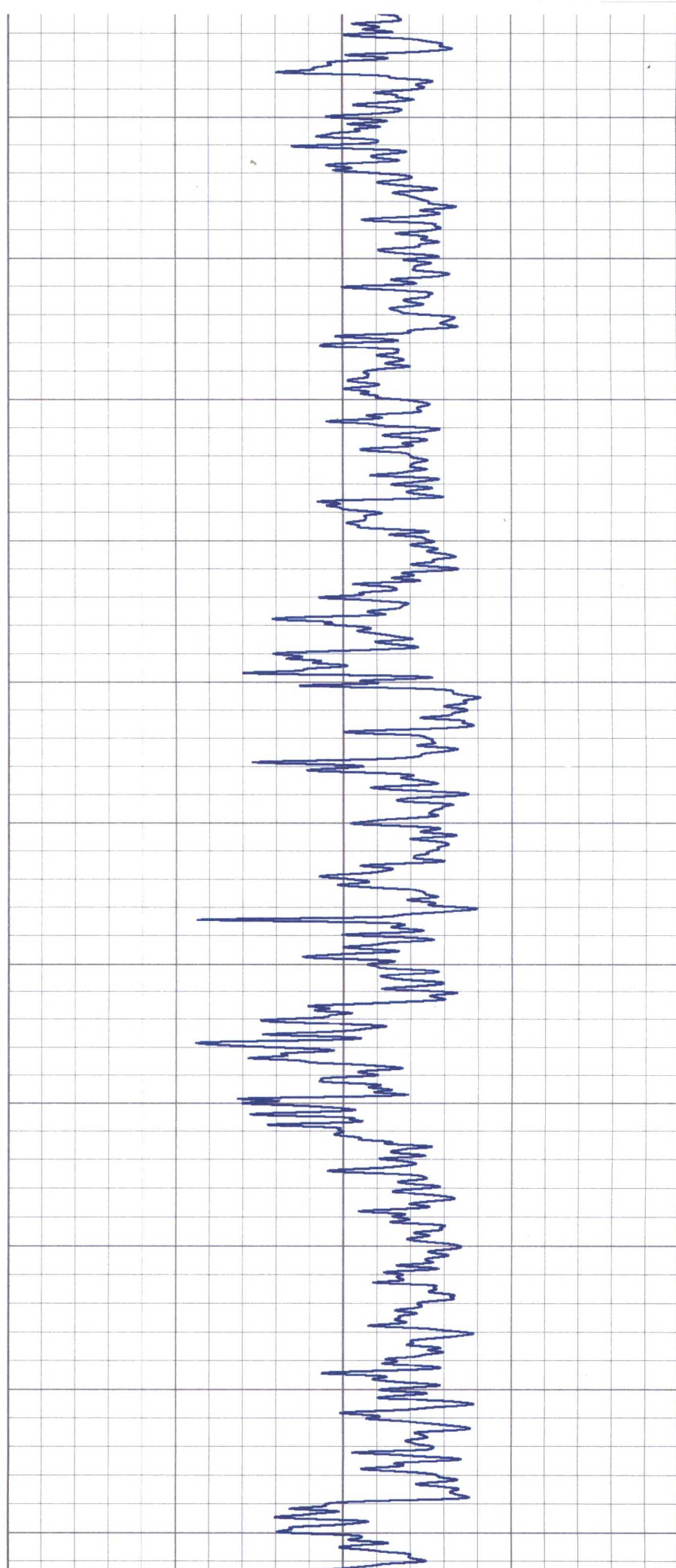
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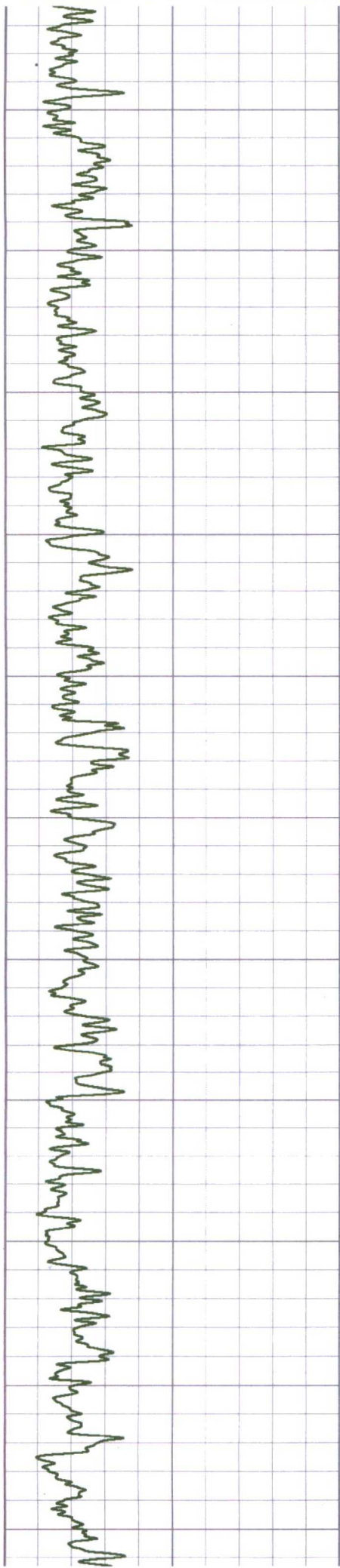
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5800

5900







6000

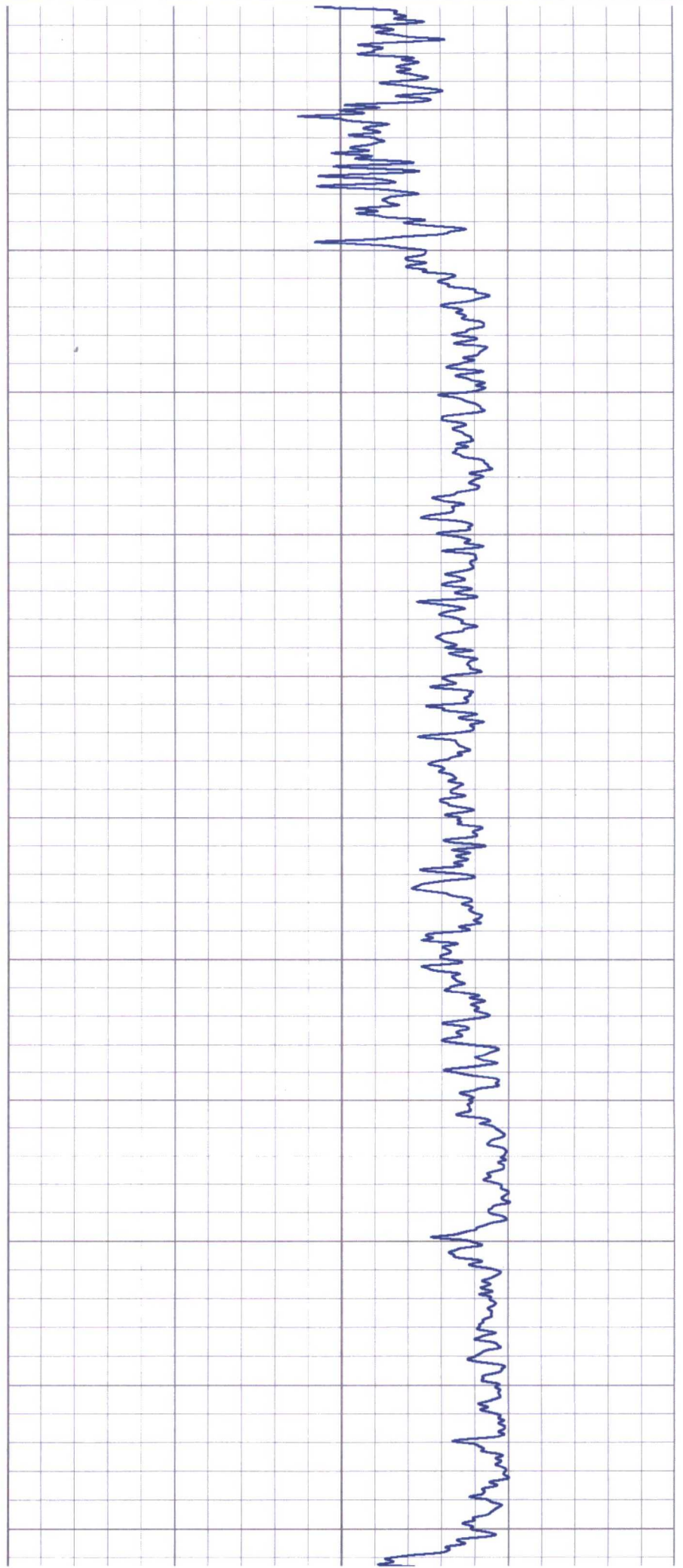
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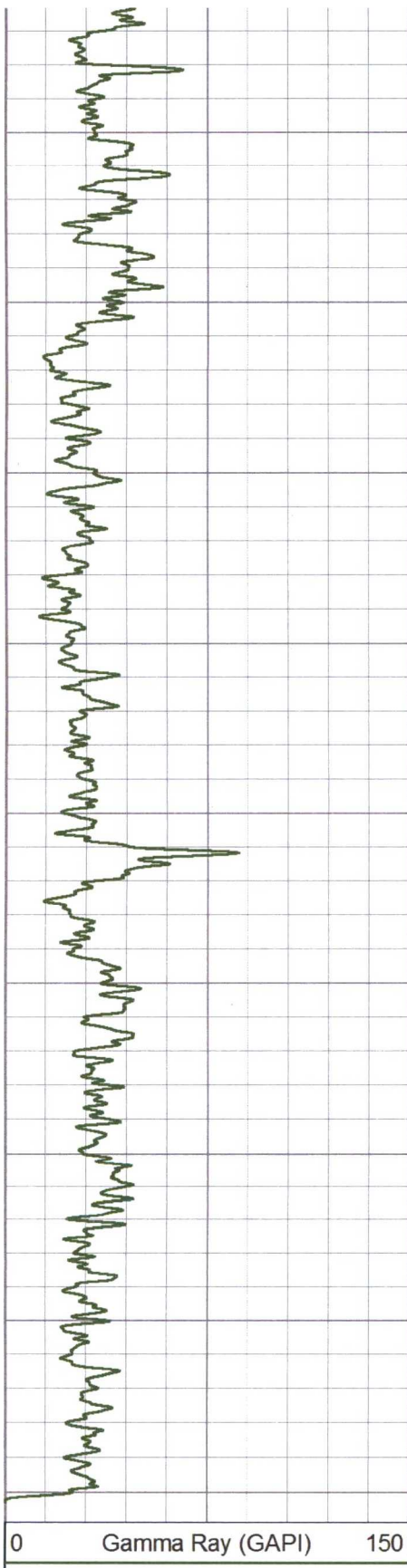
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6400

6500







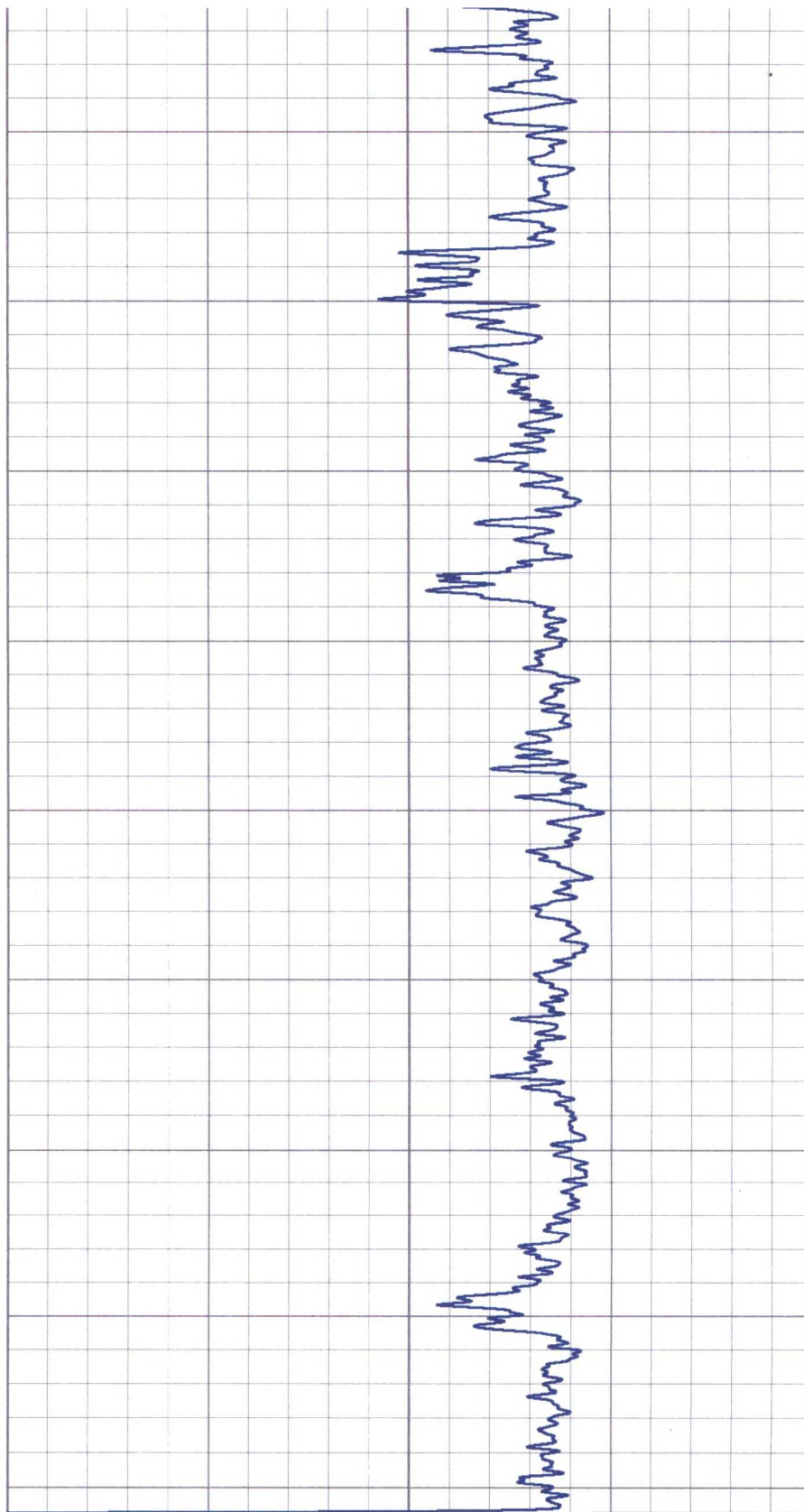
6600

6700

6800

6900

0 Gamma Ray (GAPI) 150



Neutron Porosity  
Limestone Matrix

30

(pu)

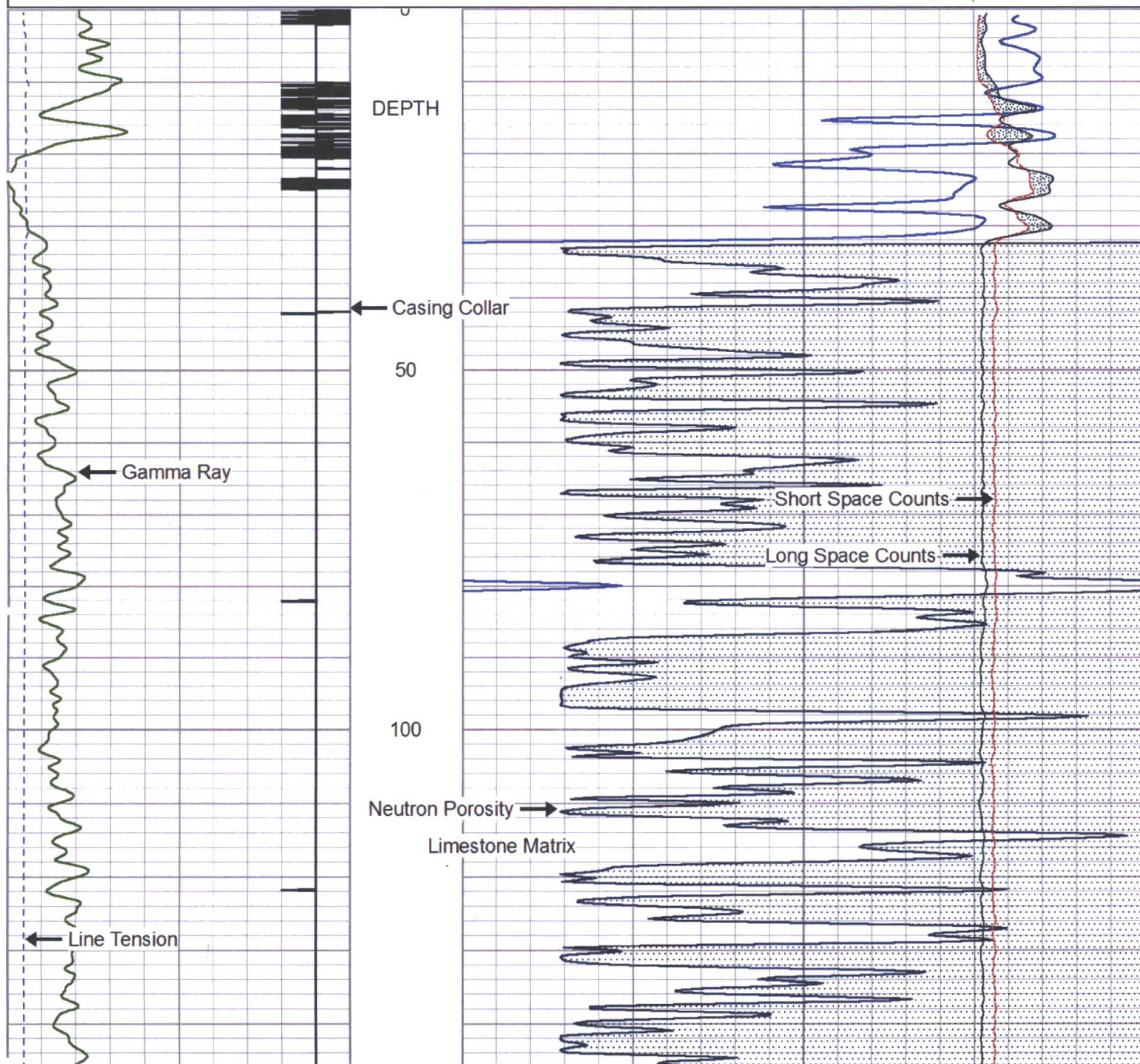
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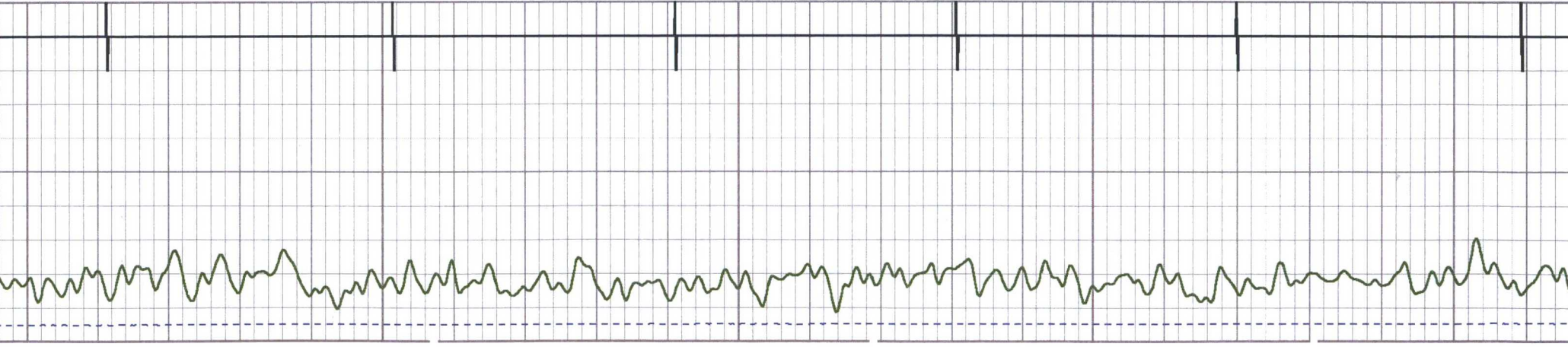
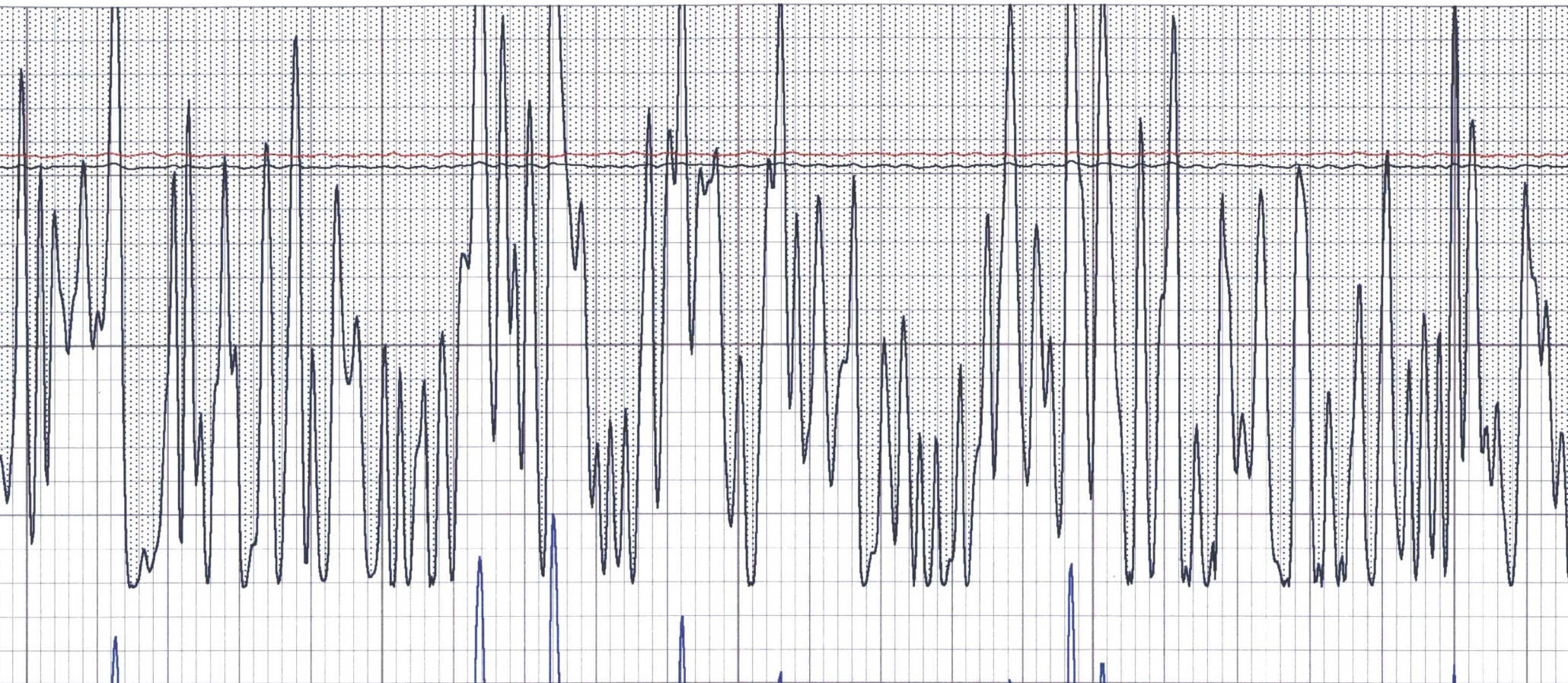
# Main Pass

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 Dataset Pathname: pass9  
 Presentation Format: cnlspray  
 Dataset Creation: Thu Feb 09 08:19:54 2017 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

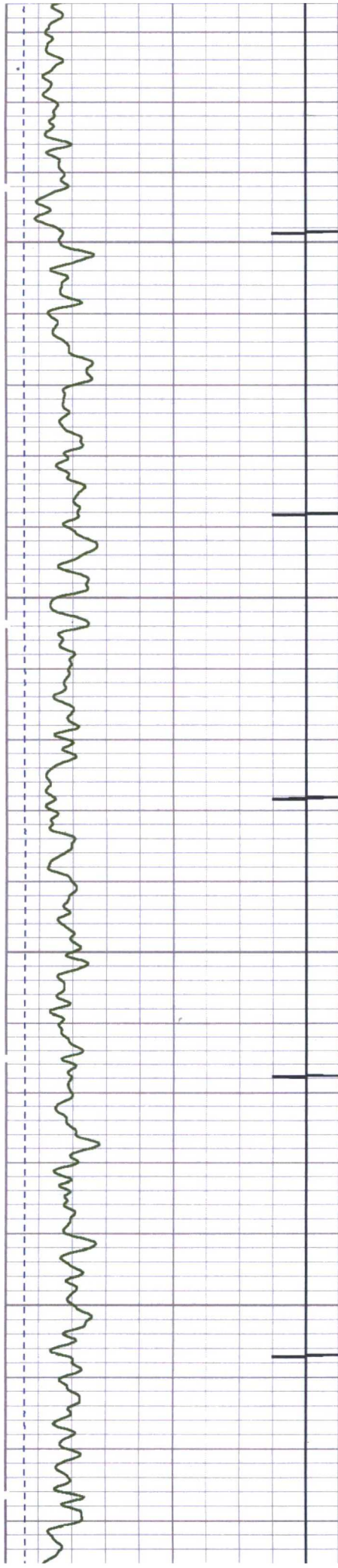
|   |                   |      |    |      |                  |                    |
|---|-------------------|------|----|------|------------------|--------------------|
| 0 | Gamma Ray (GAPI)  | 150  |    |      | Neutron Porosity |                    |
| 9 | Casing Collar     | -1   |    |      | Limestone Matrix |                    |
| 0 | Line Tension (lb) | 5000 | 30 | (pu) | -10              |                    |
|   |                   |      |    |      |                  | Long Space Counts  |
|   |                   |      |    |      |                  | 0 (cps) 1500       |
|   |                   |      |    |      |                  | Short Space Counts |
|   |                   |      |    |      |                  | 0 (cps) 7000       |









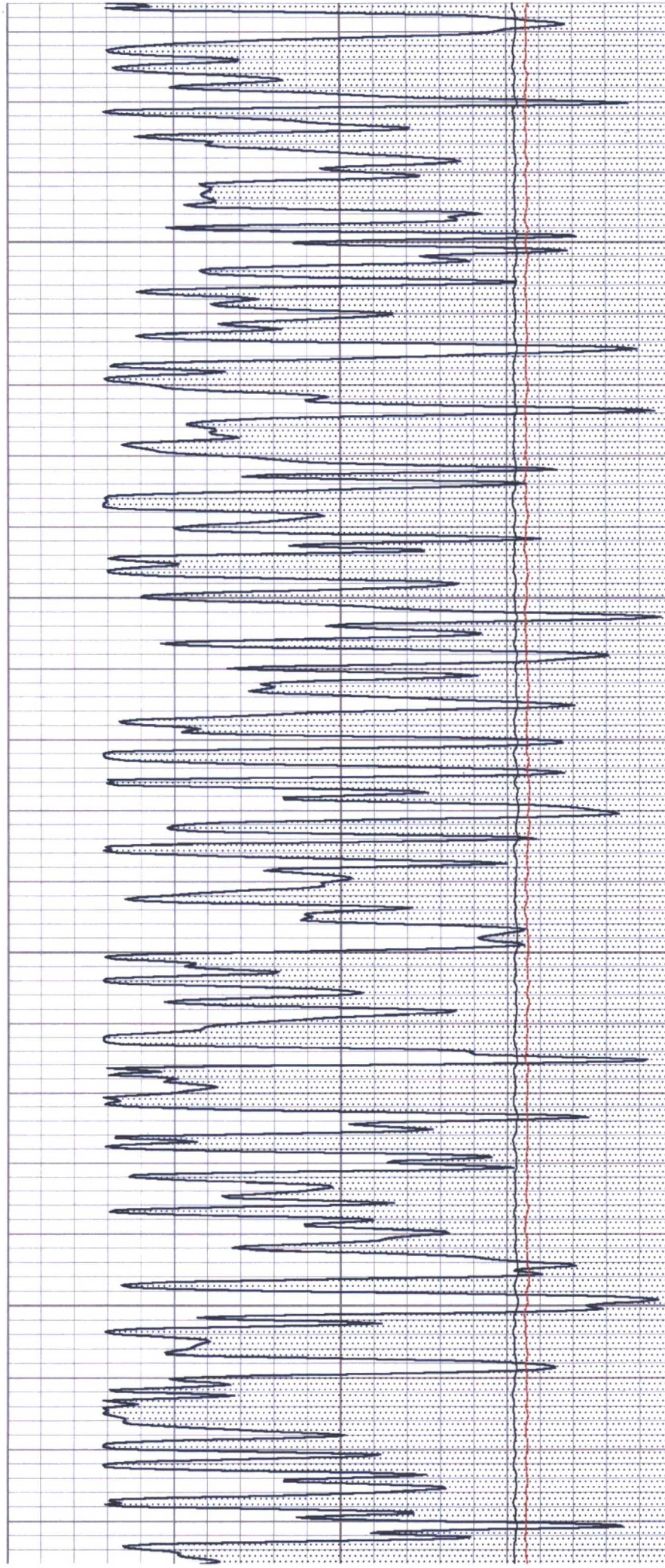


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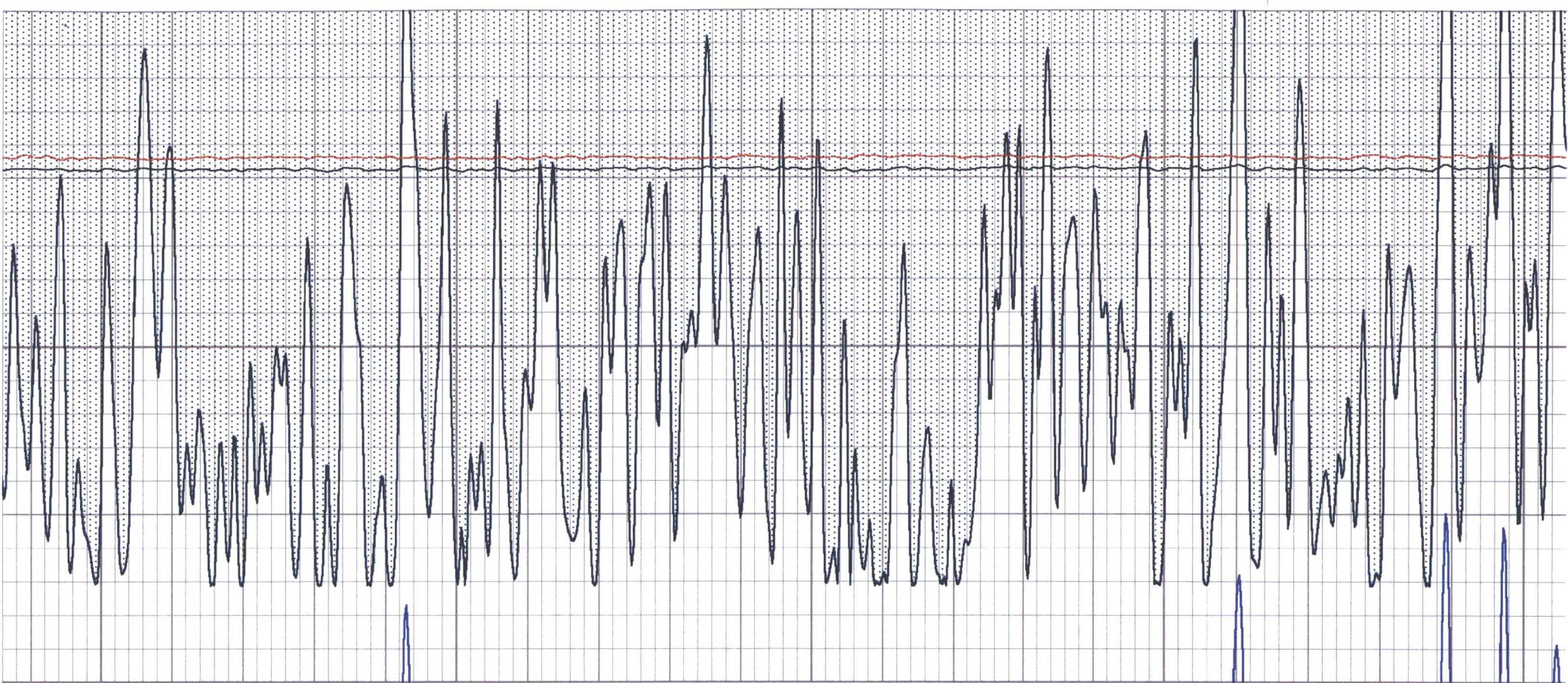
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500

550







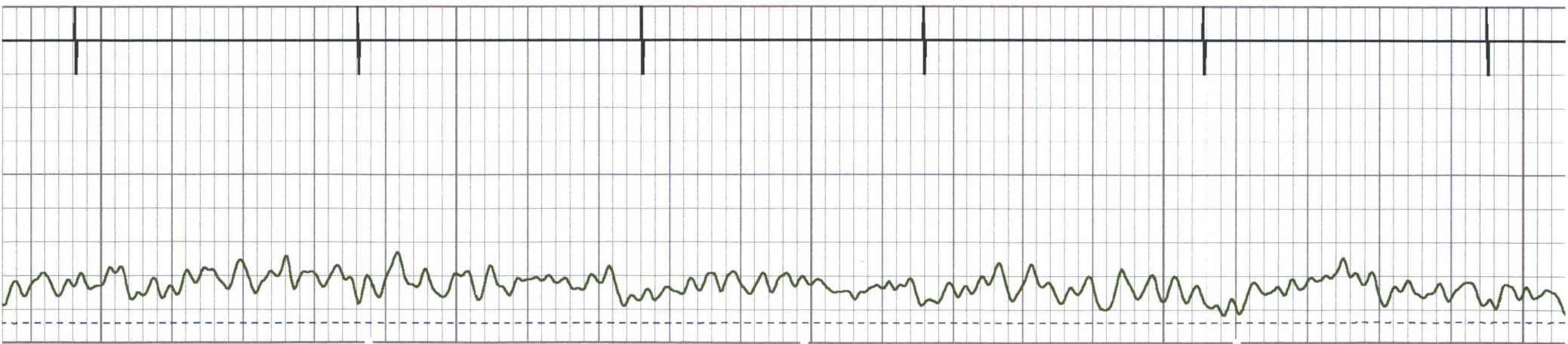
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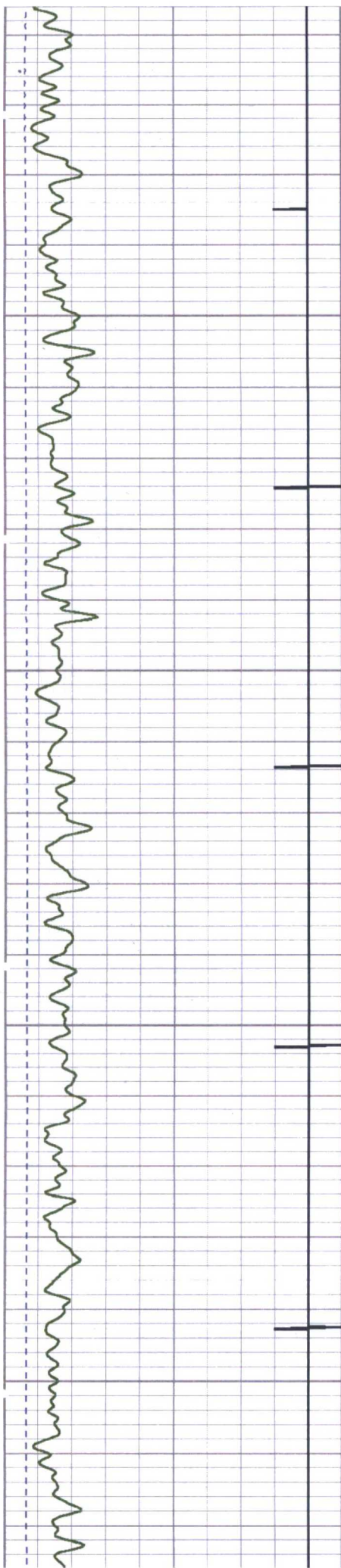
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750

800





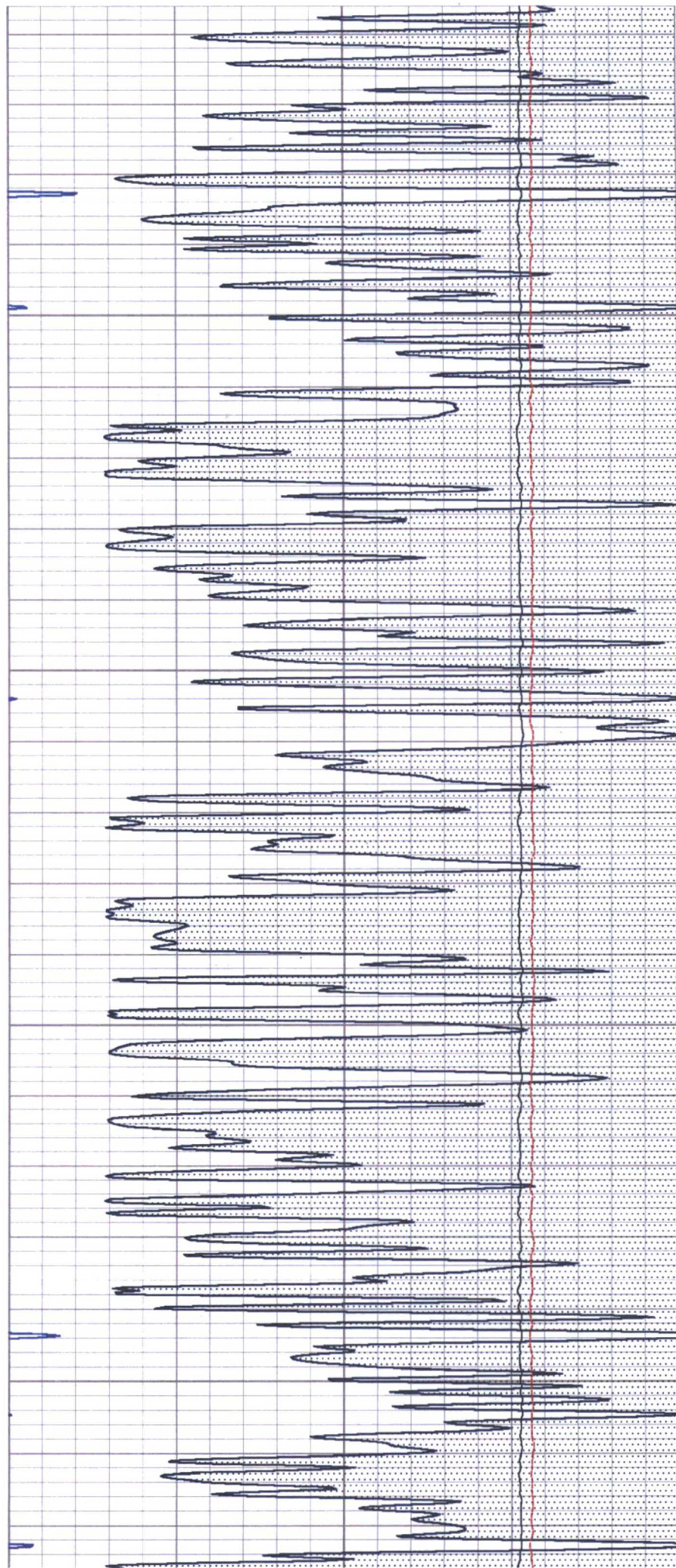


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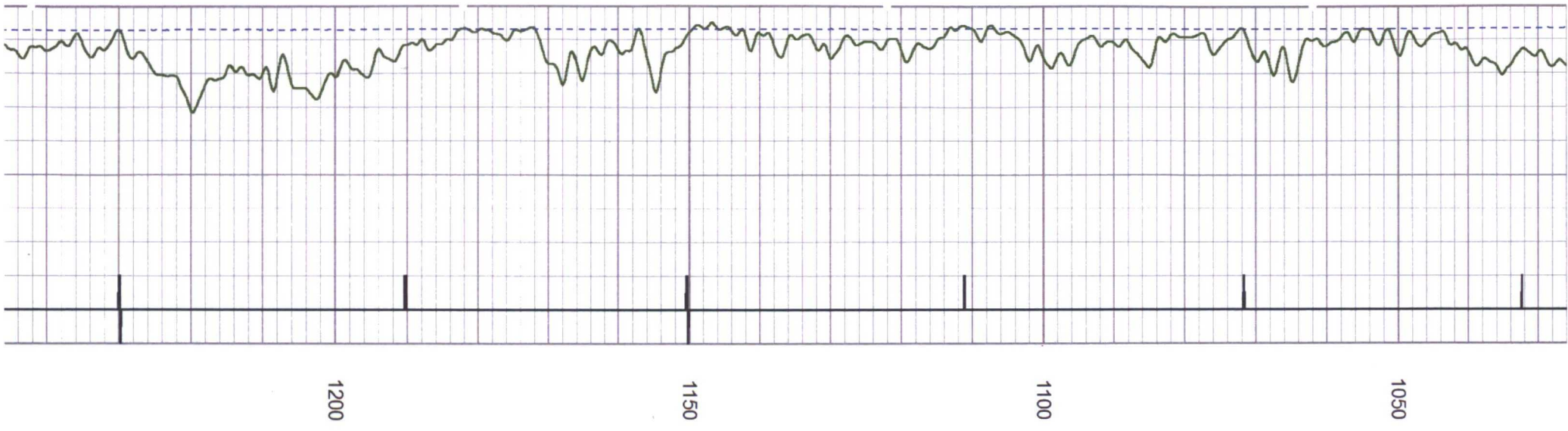
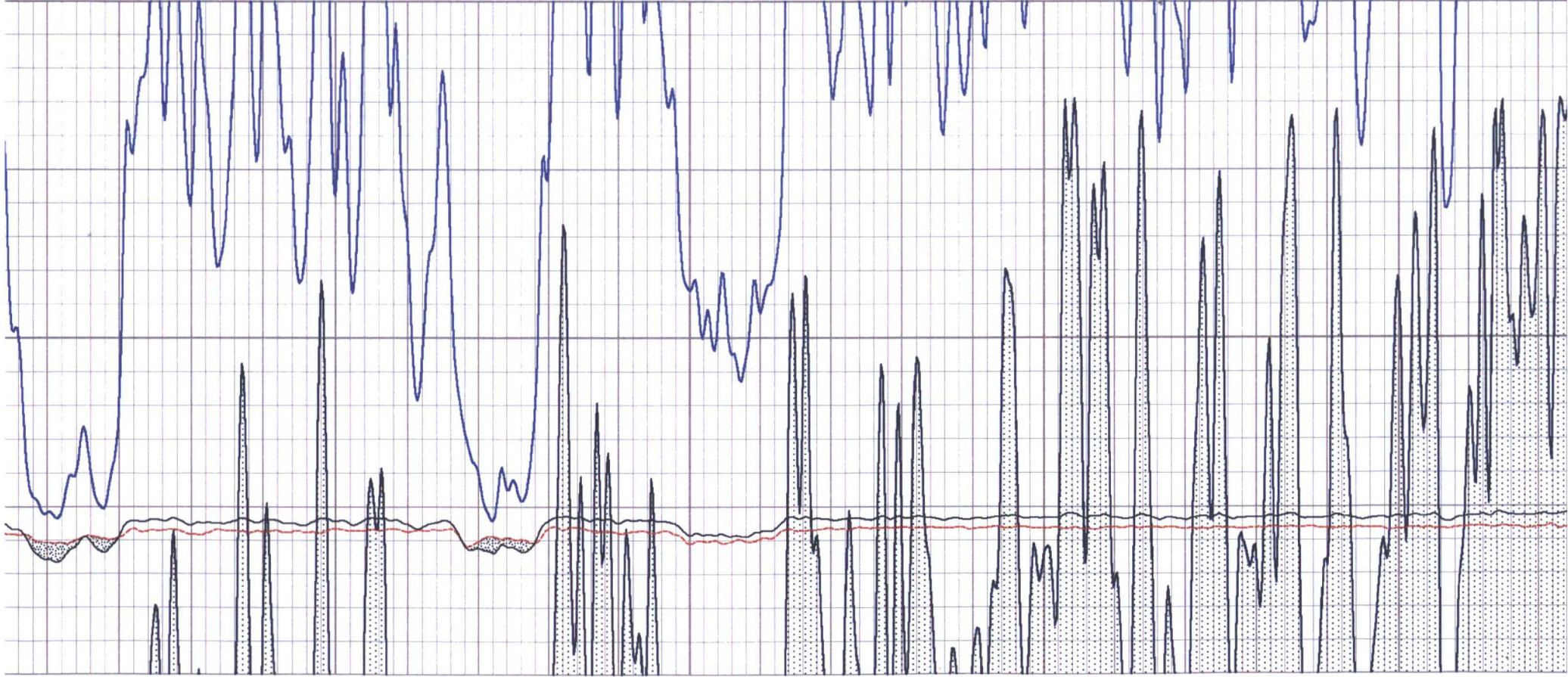
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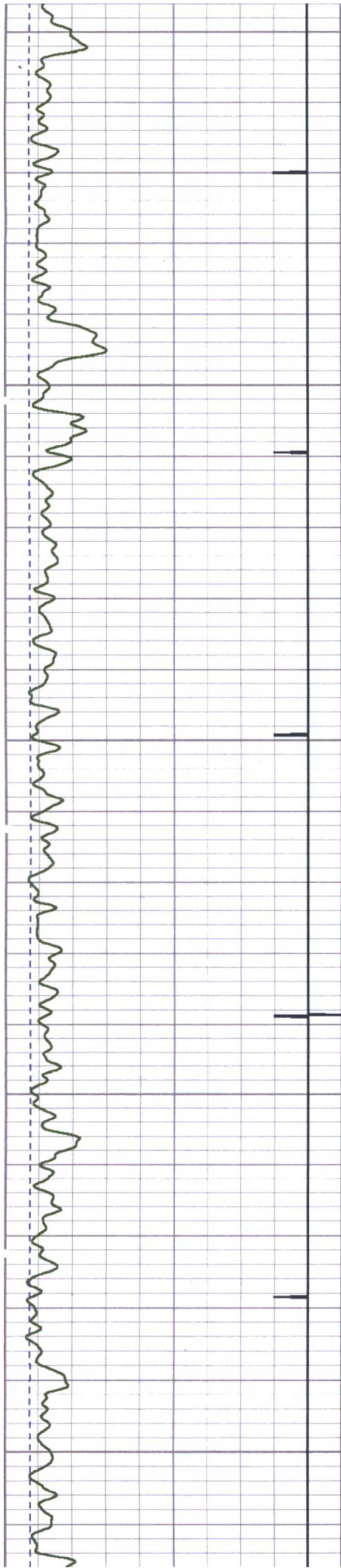
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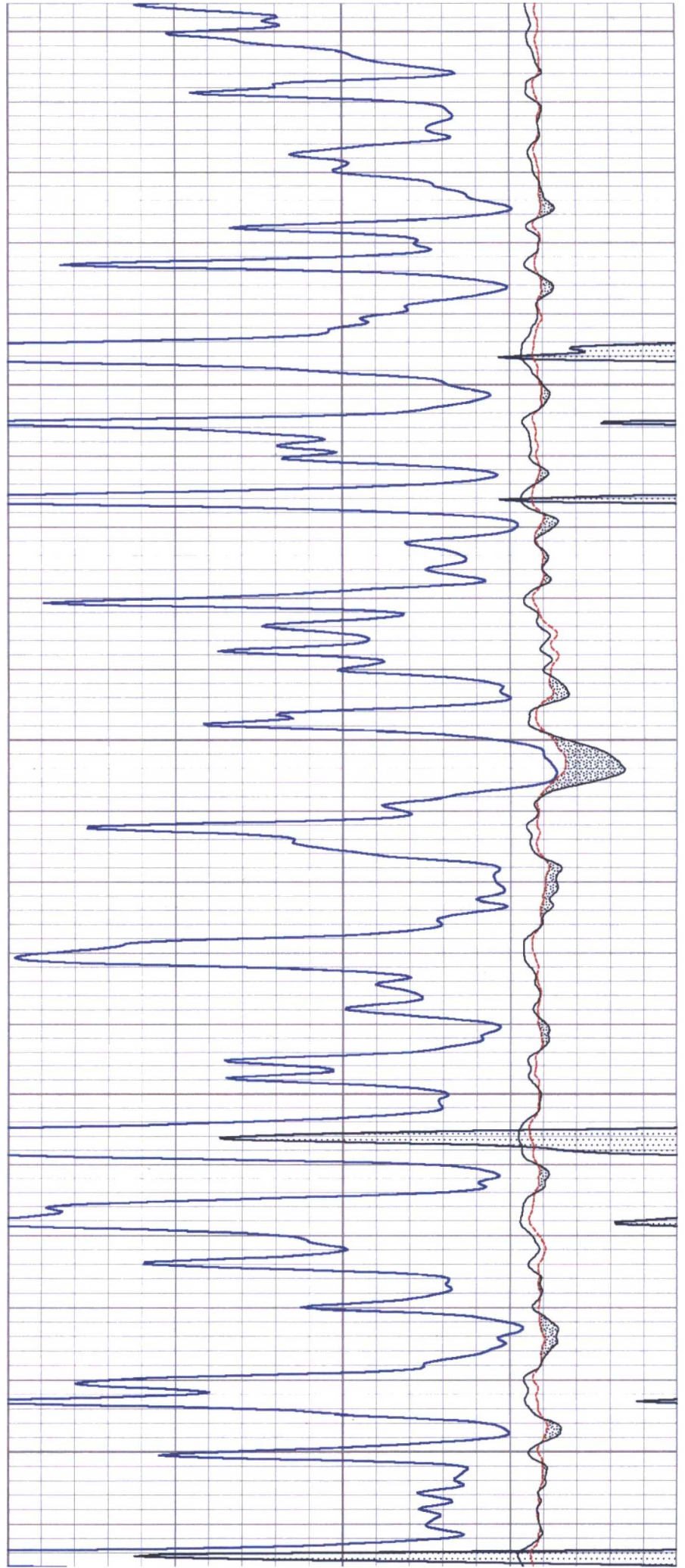
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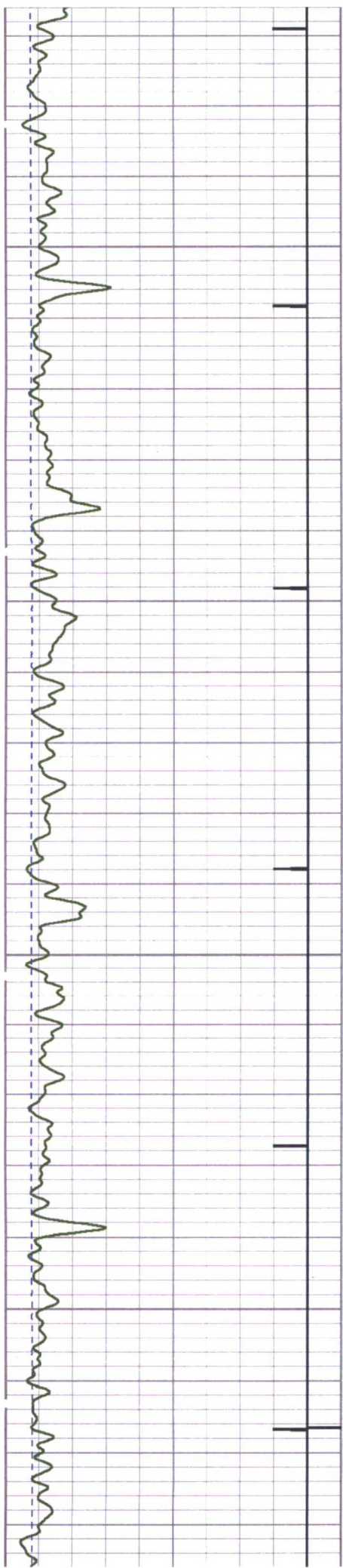
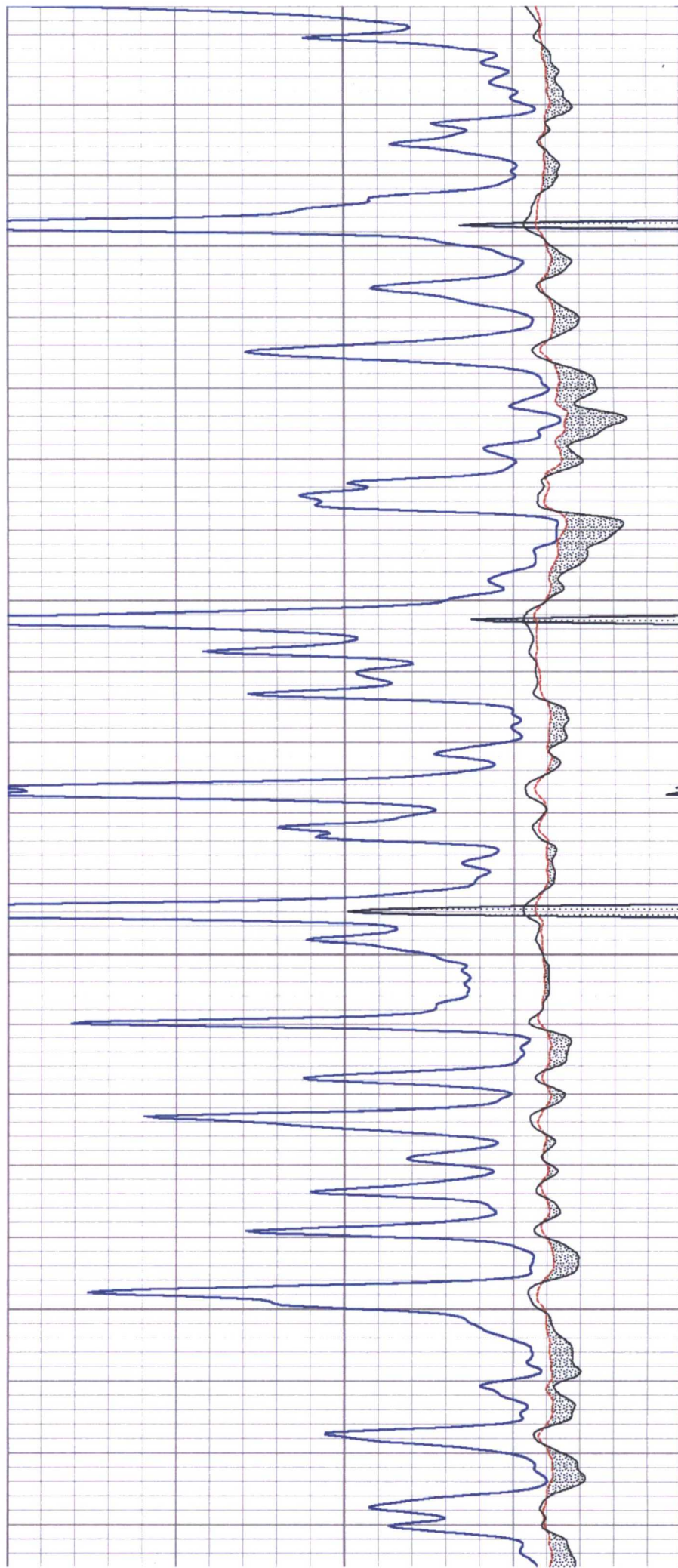
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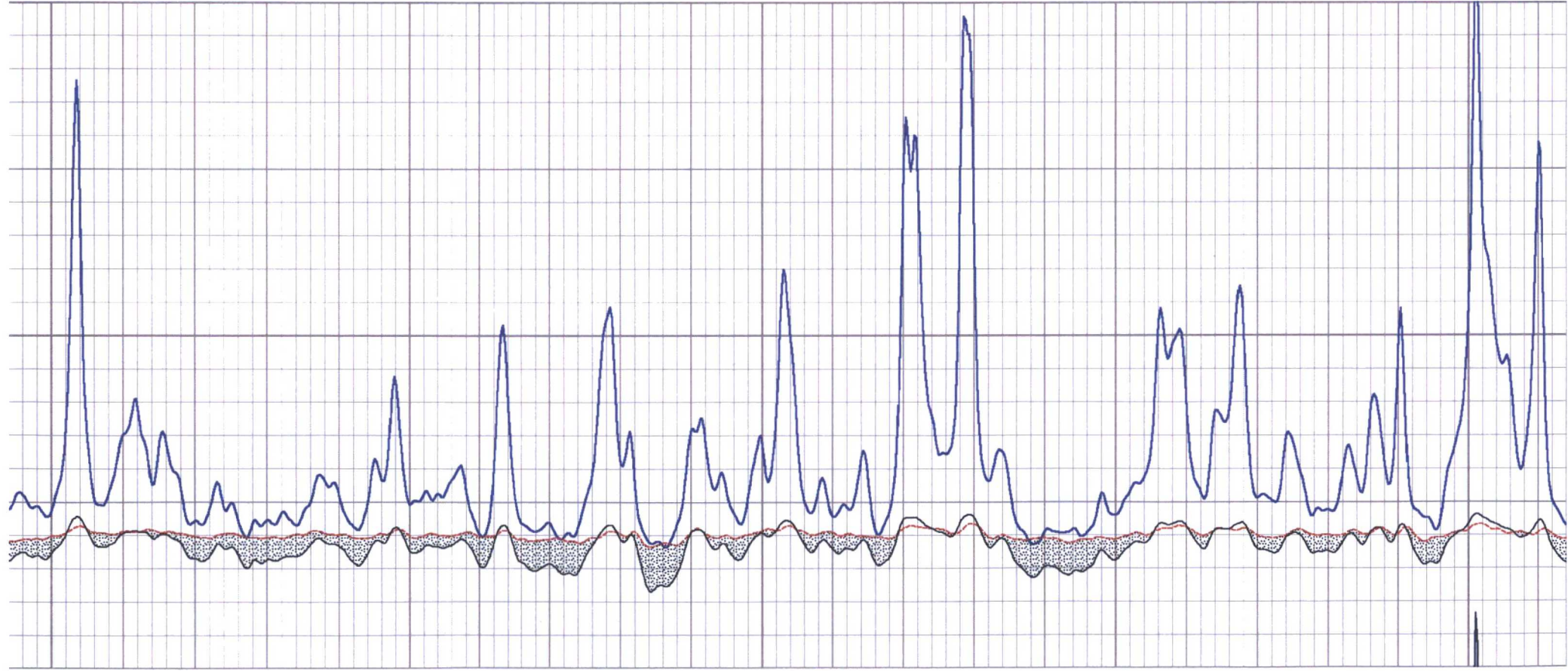
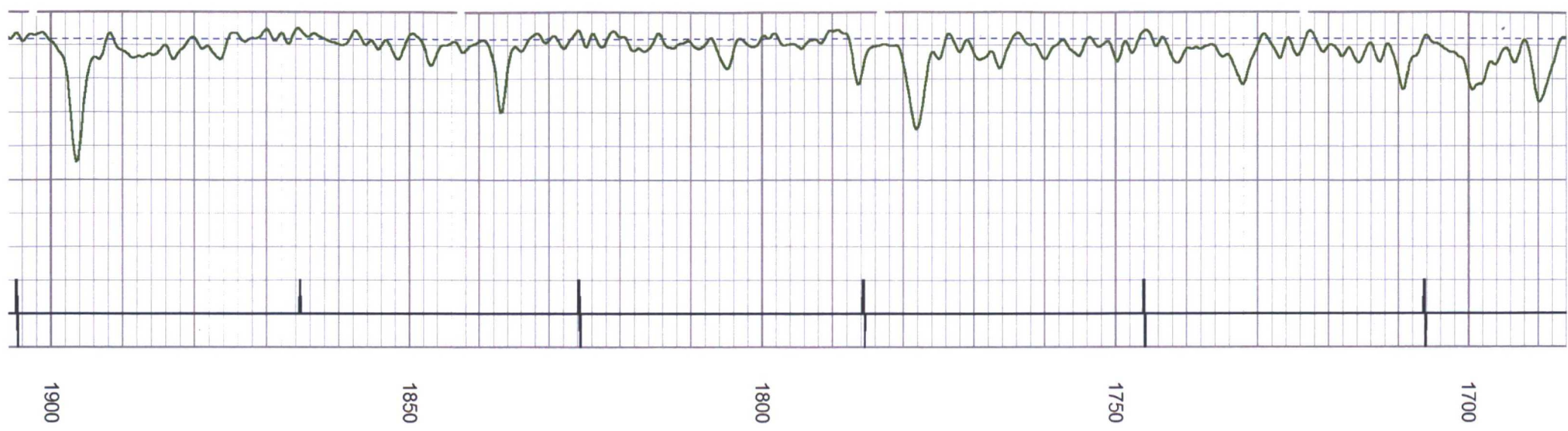
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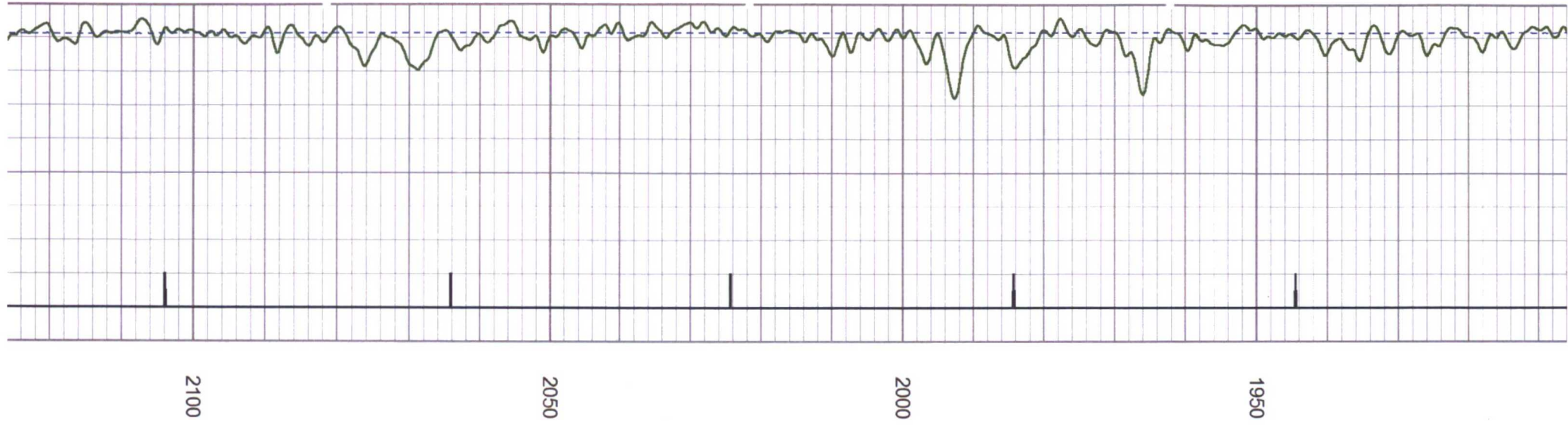
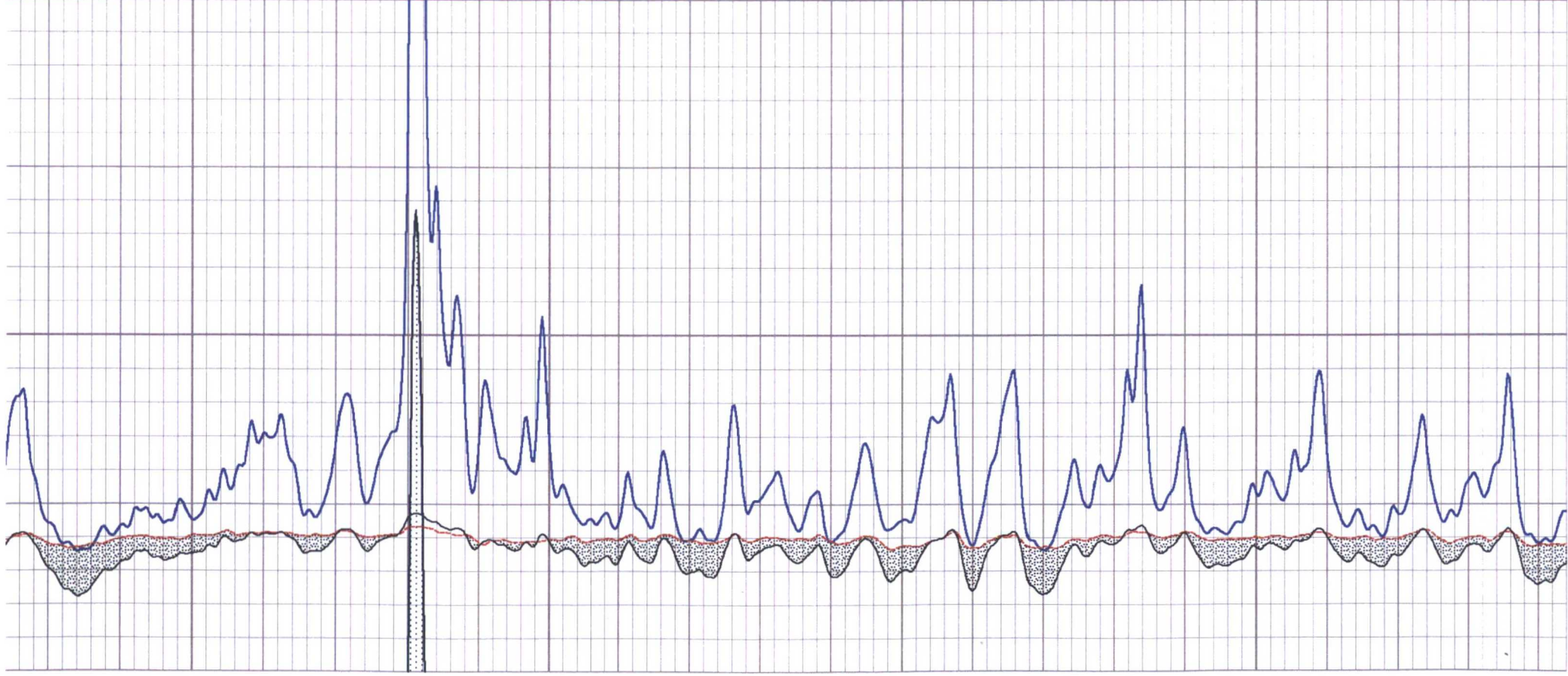




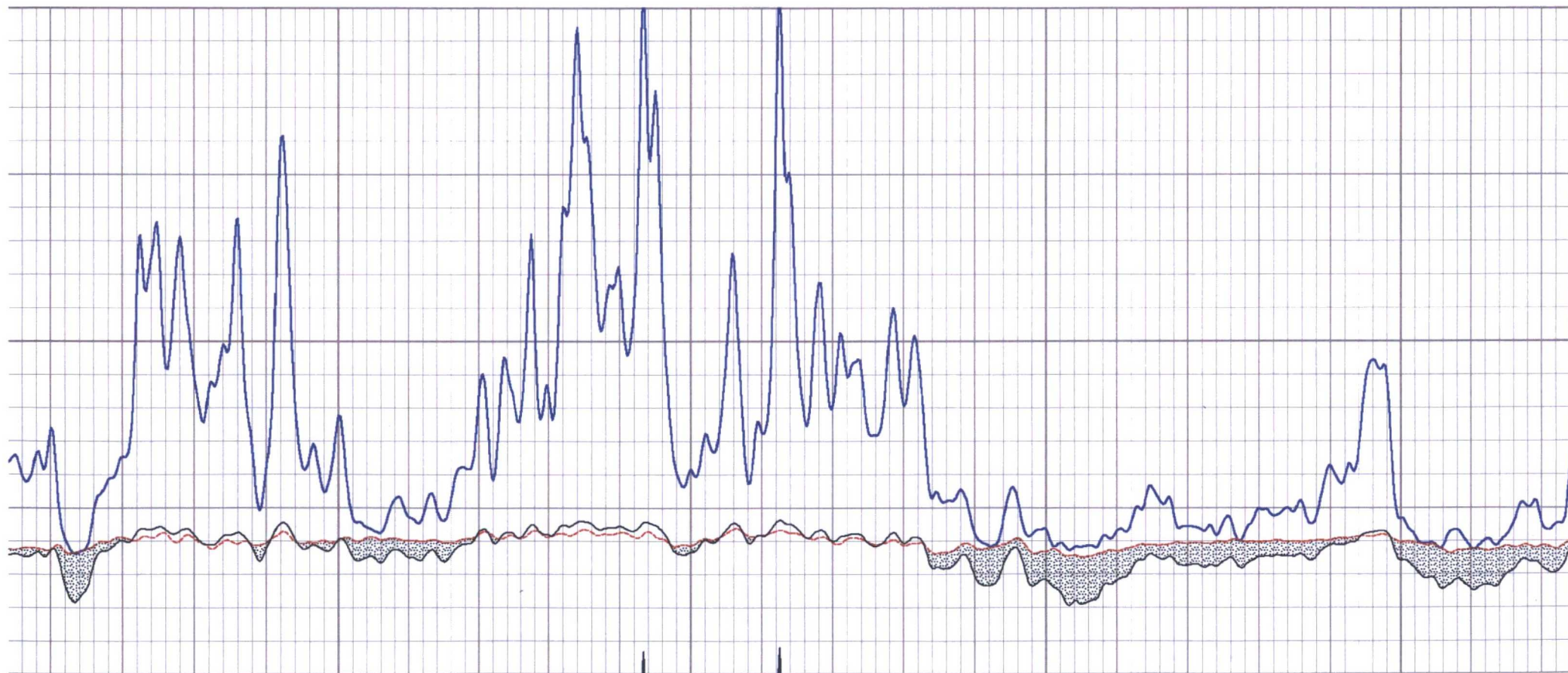
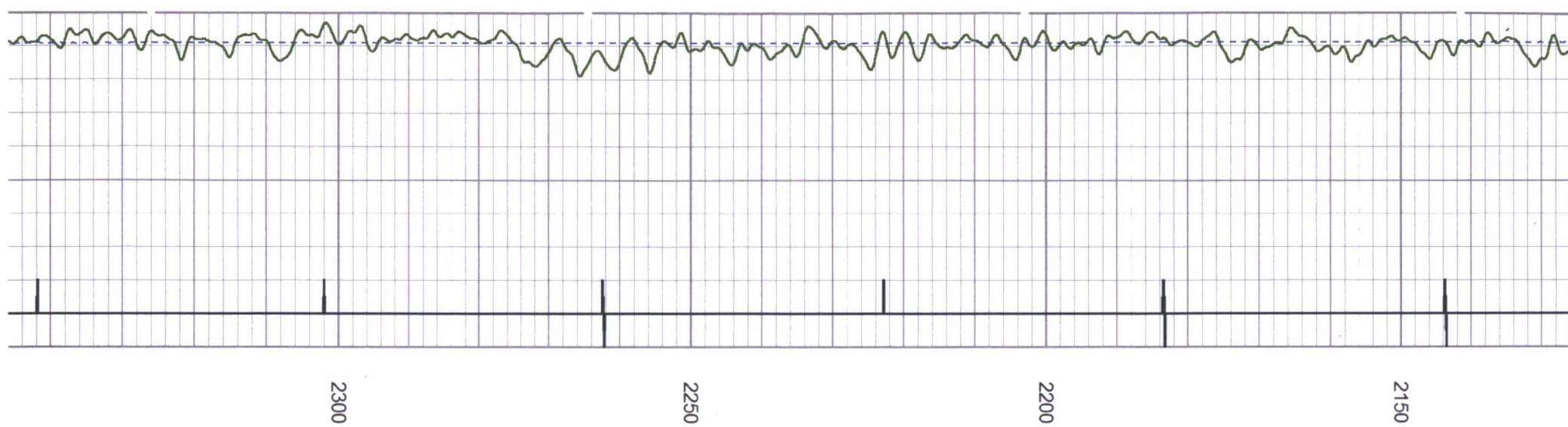




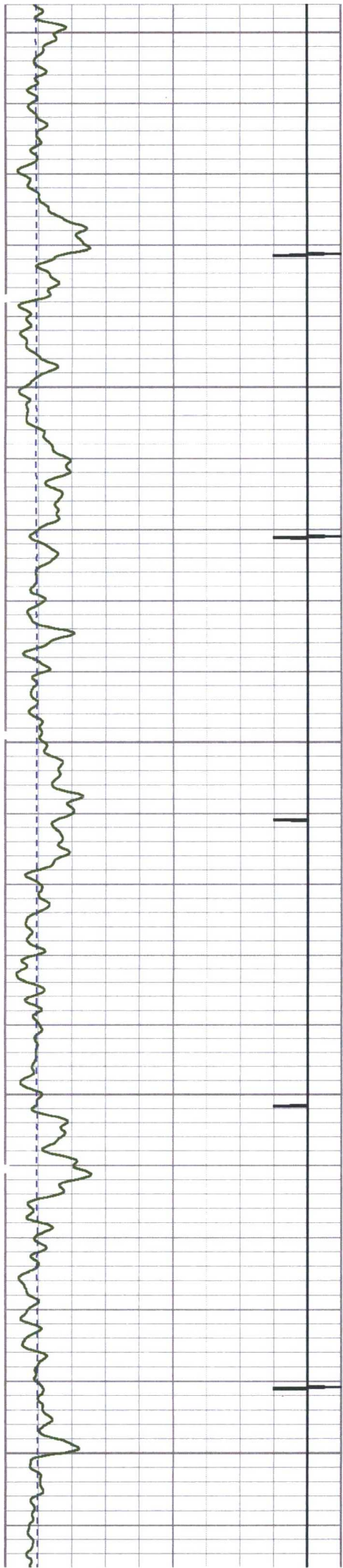












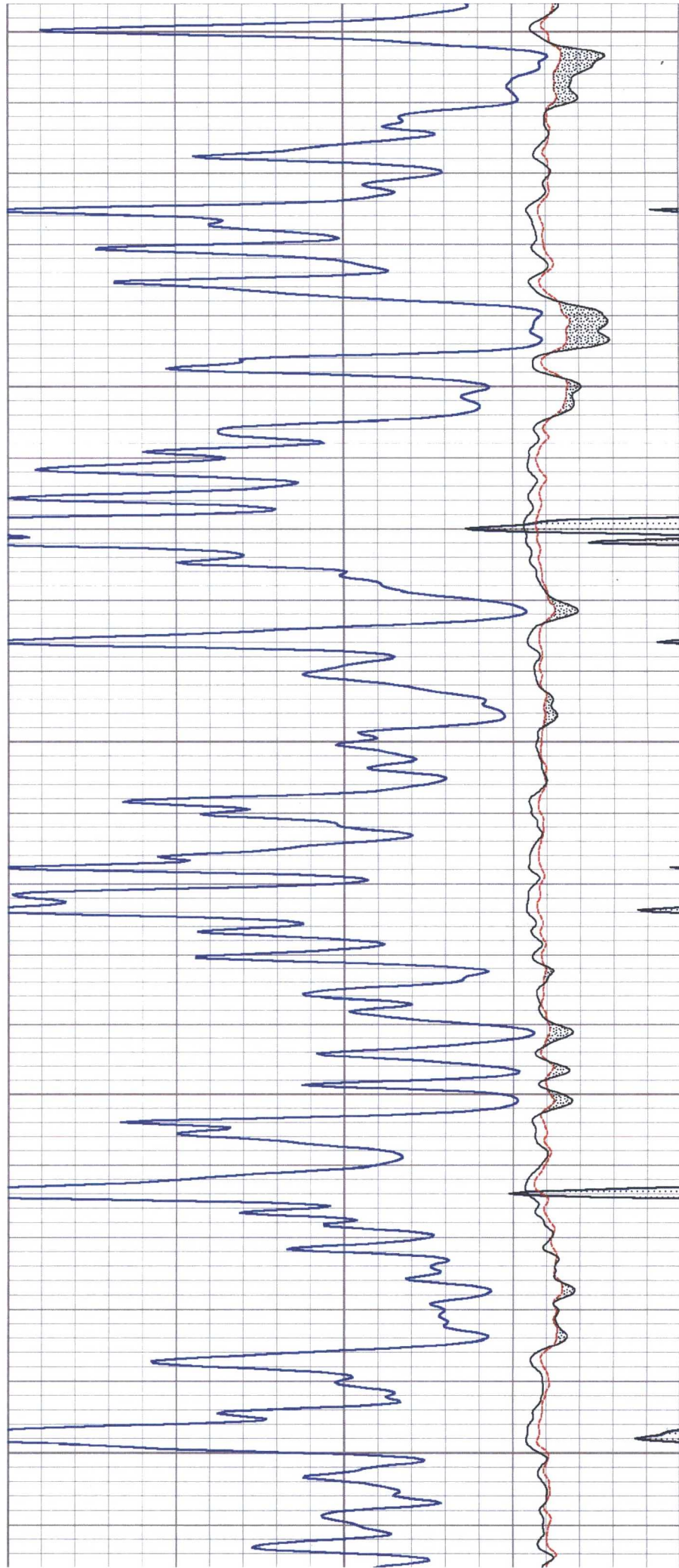
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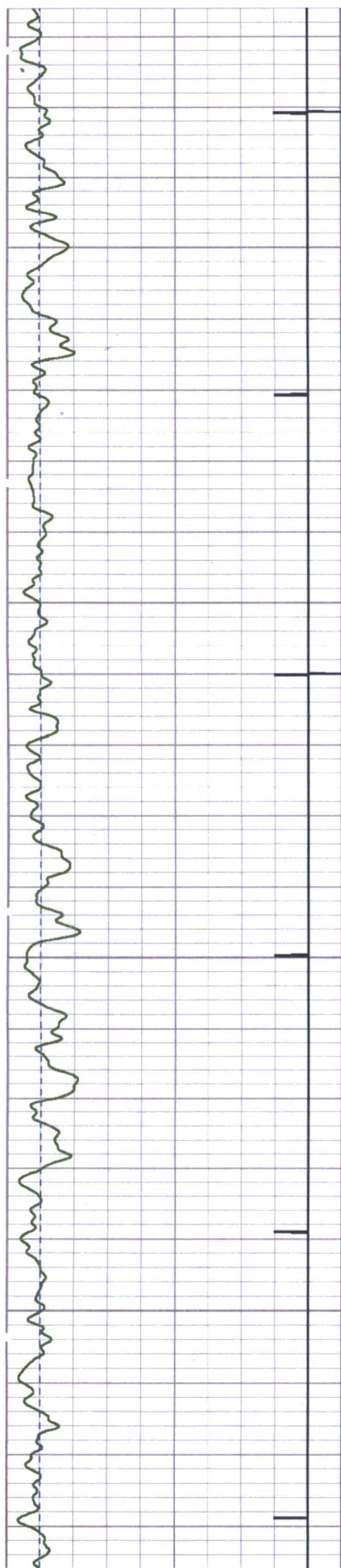
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2550





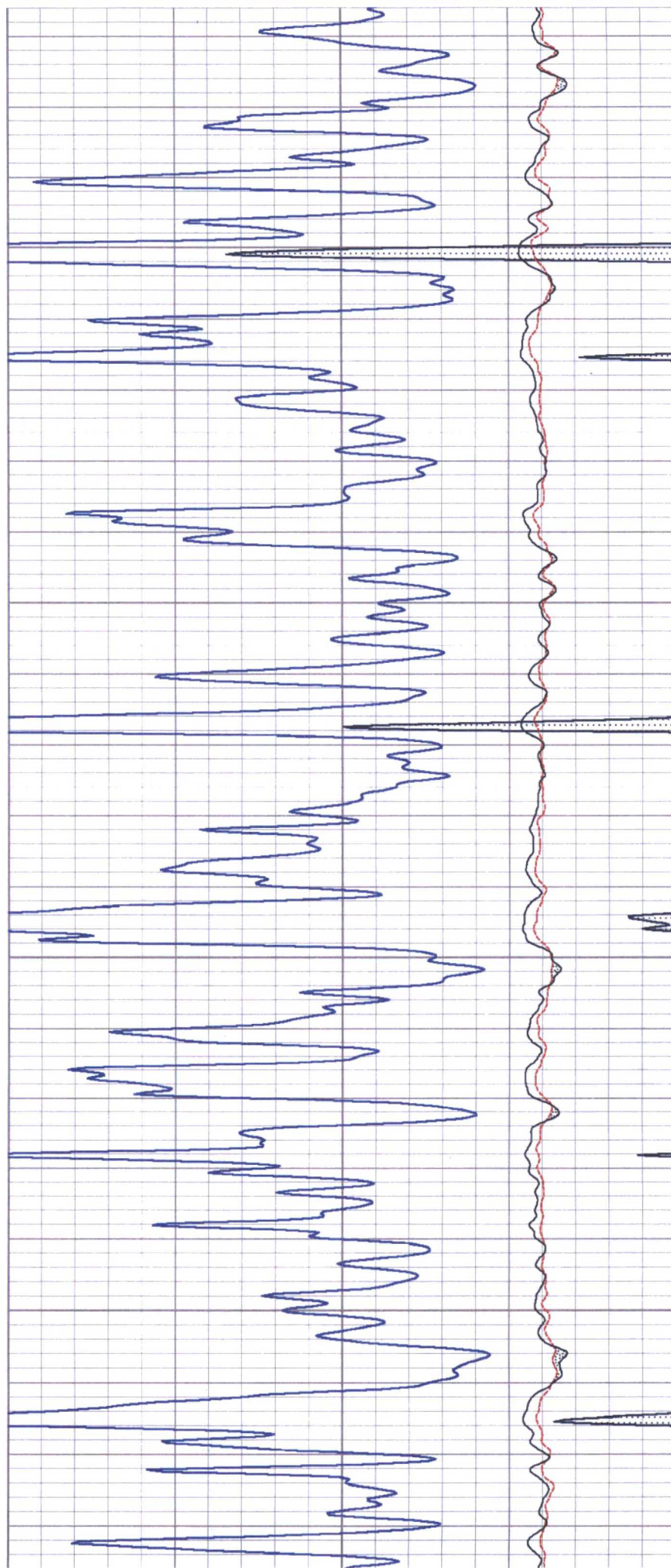


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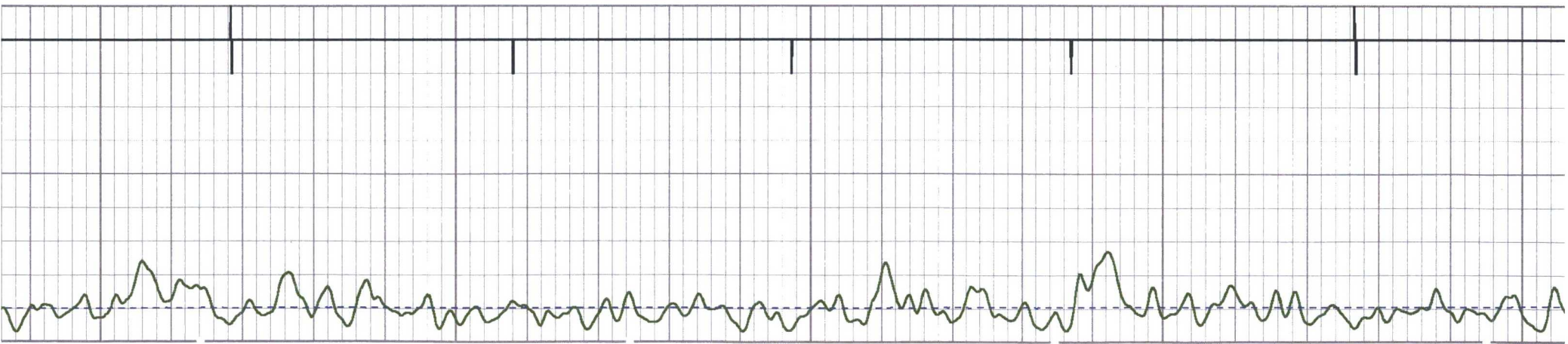
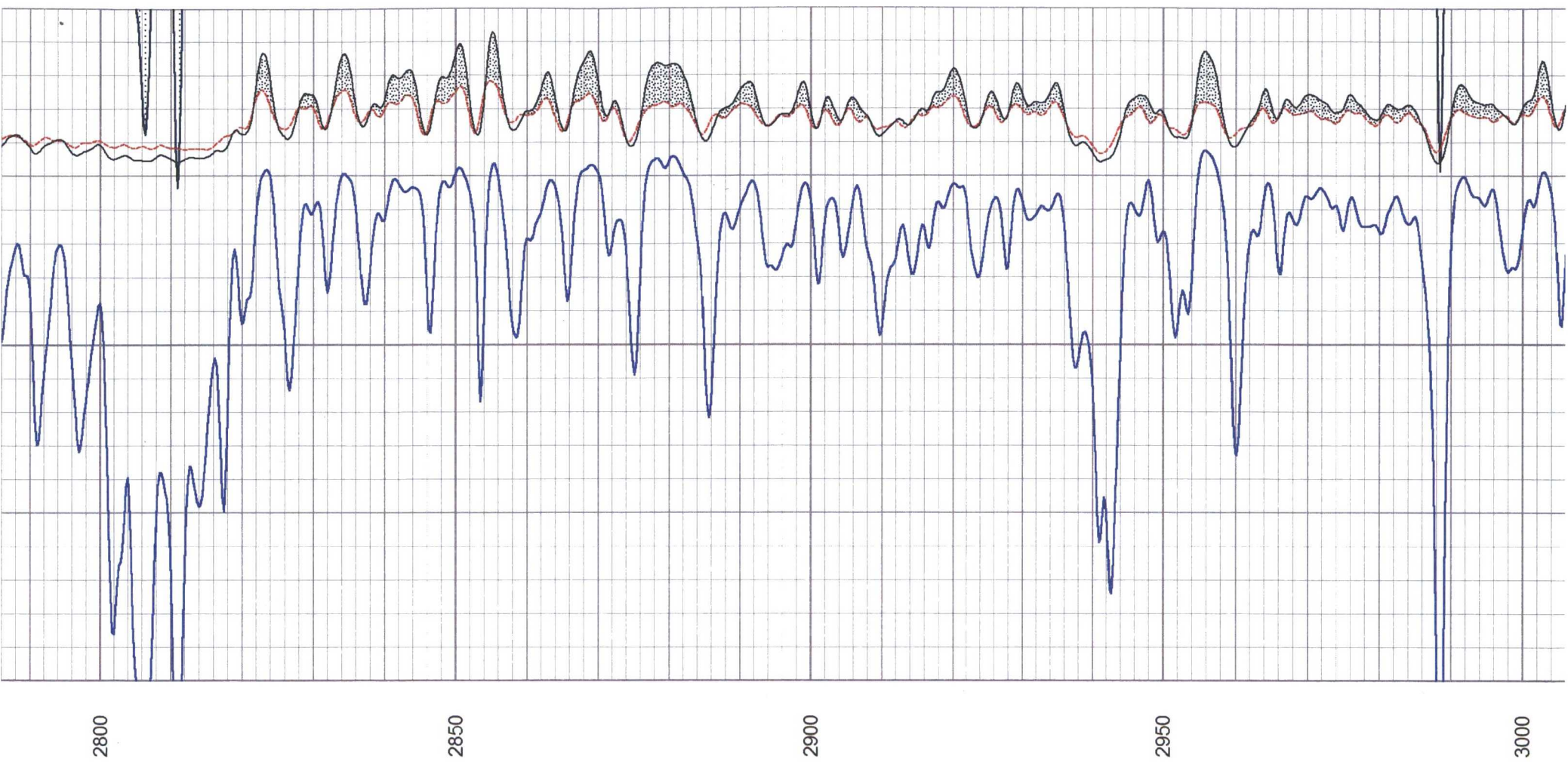
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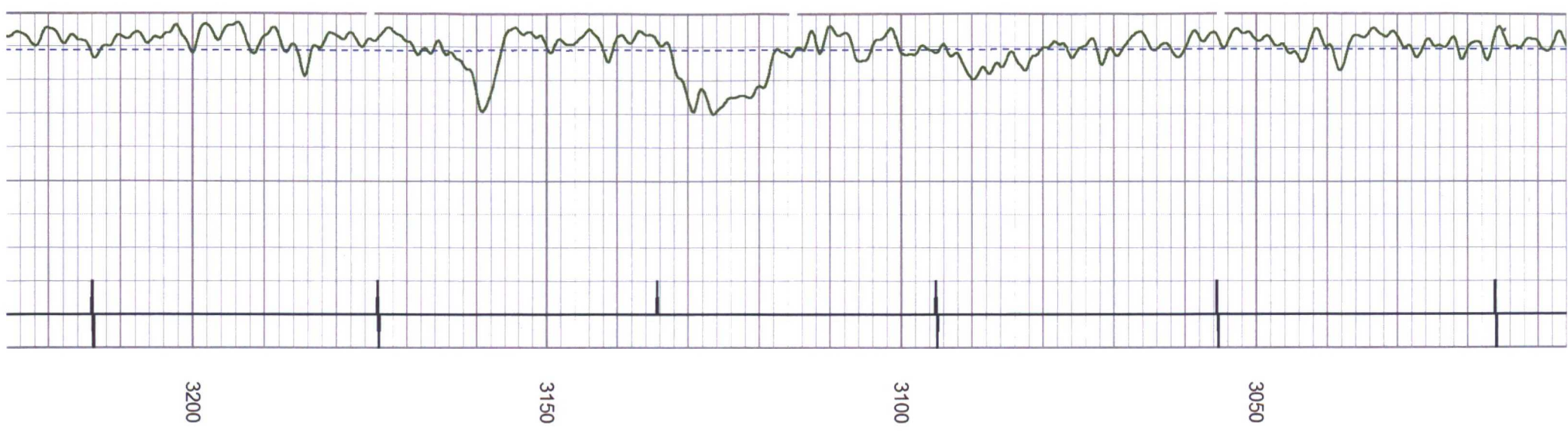
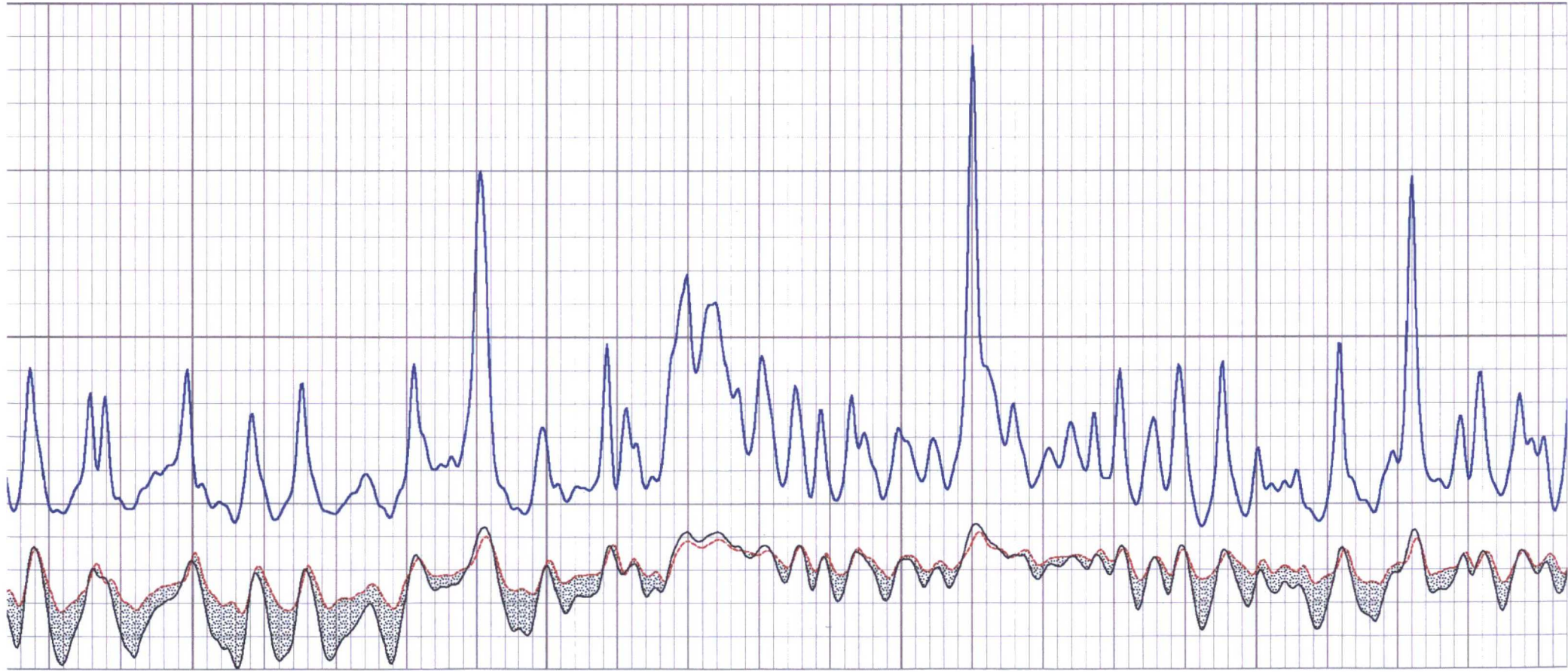
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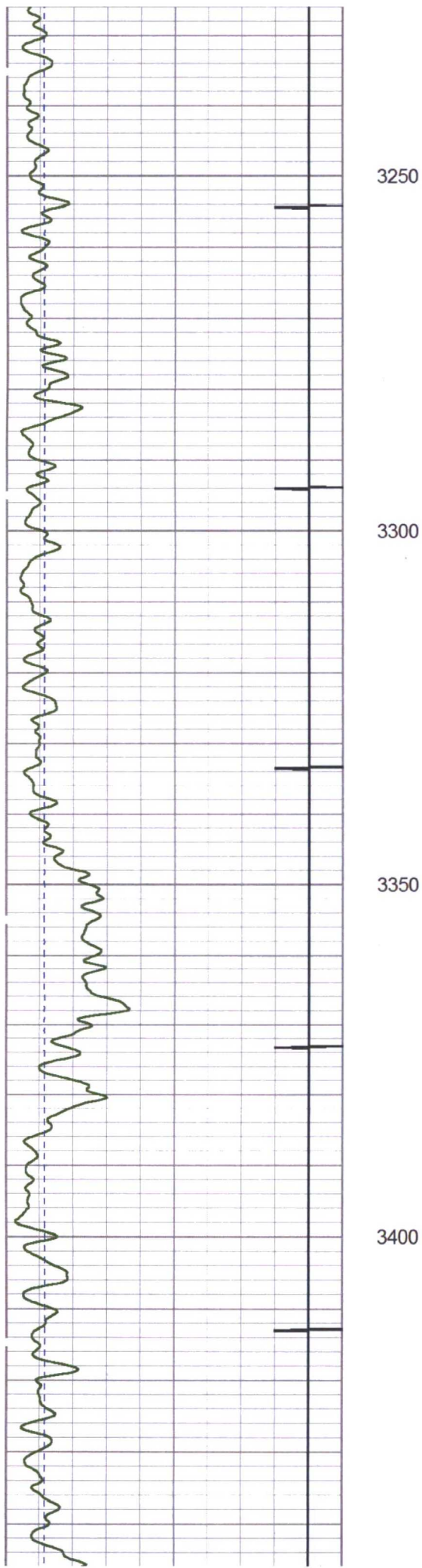
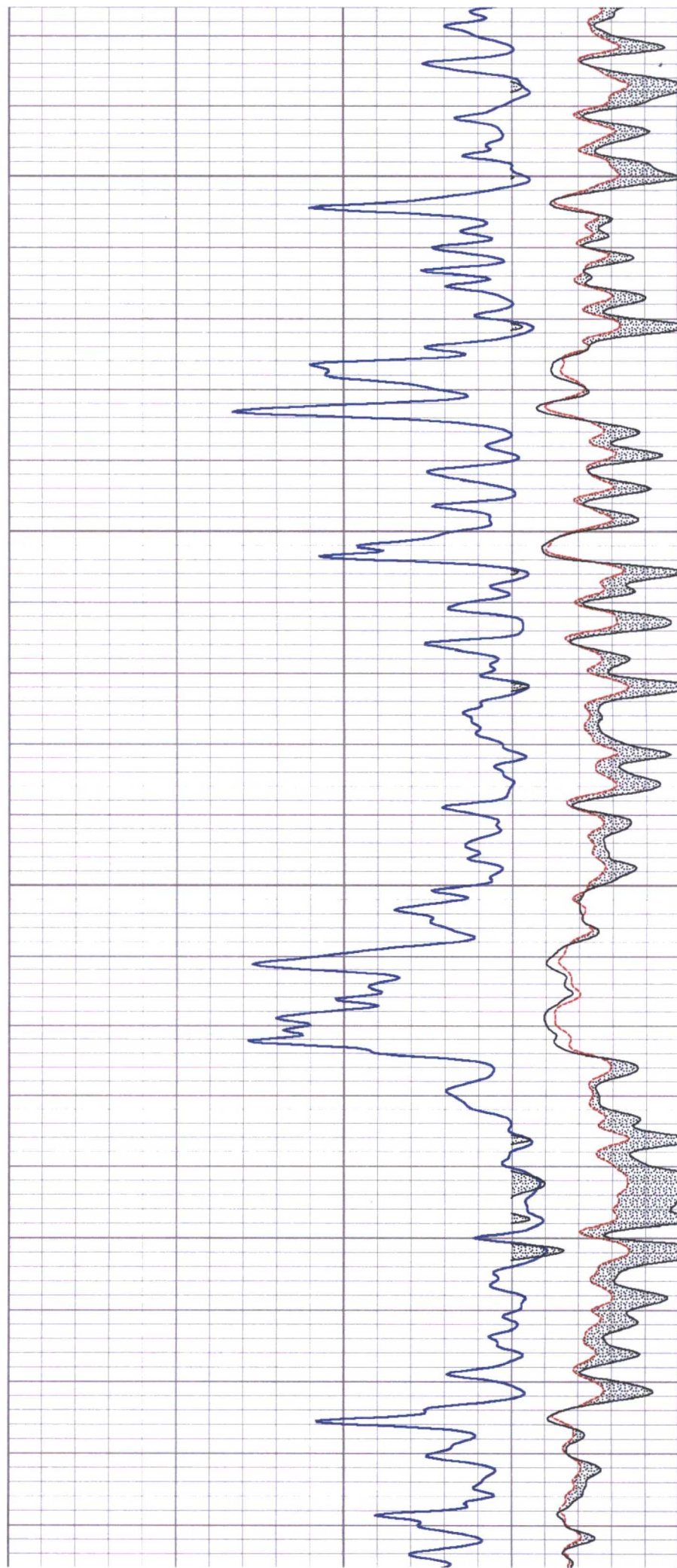




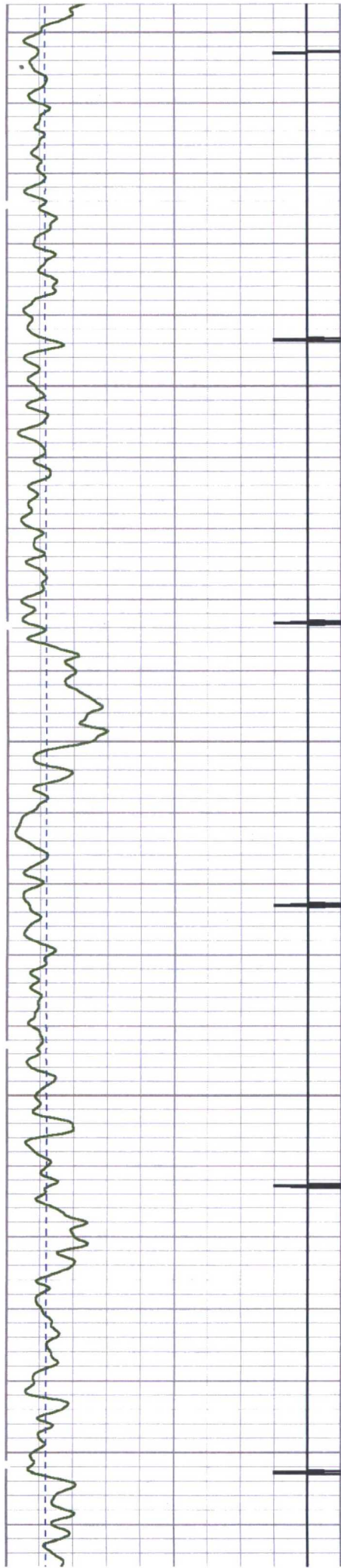












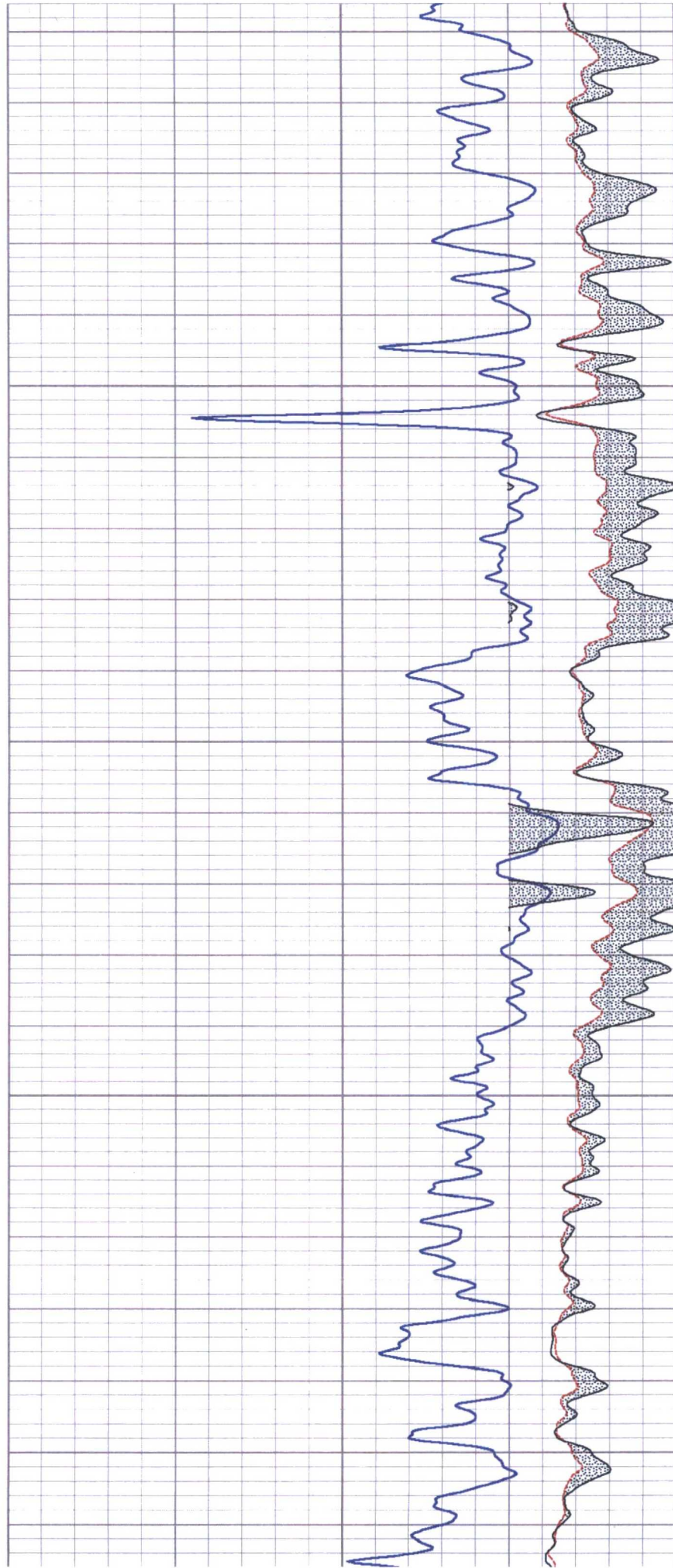
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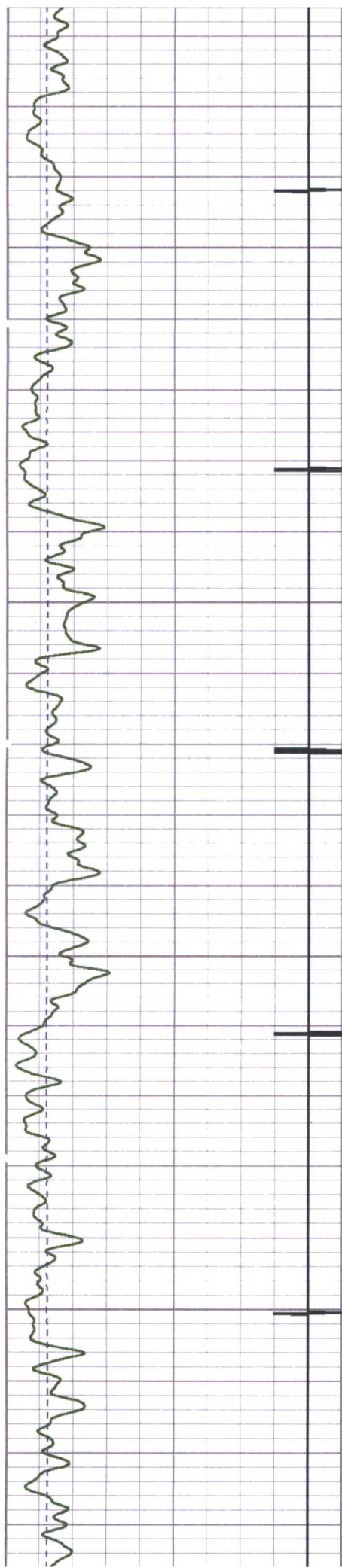
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3600

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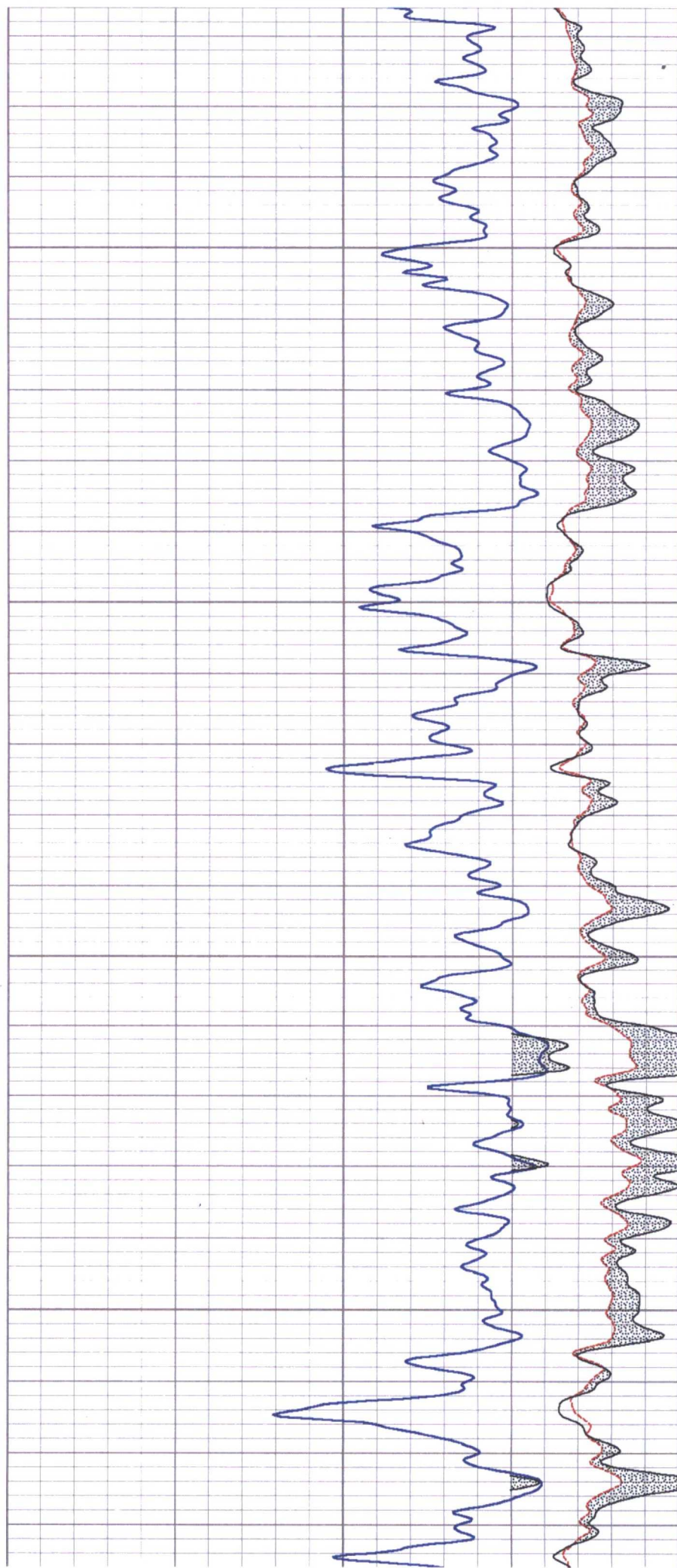


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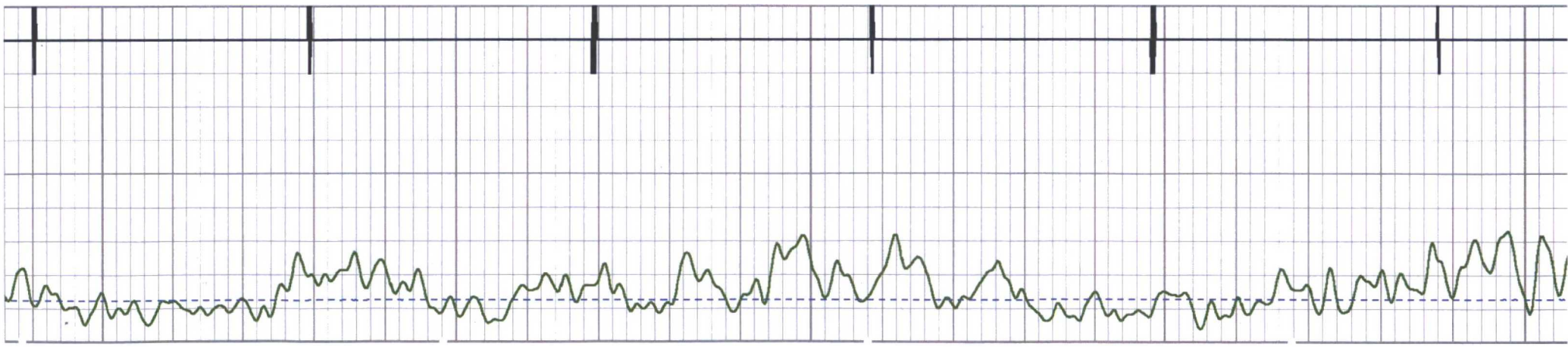
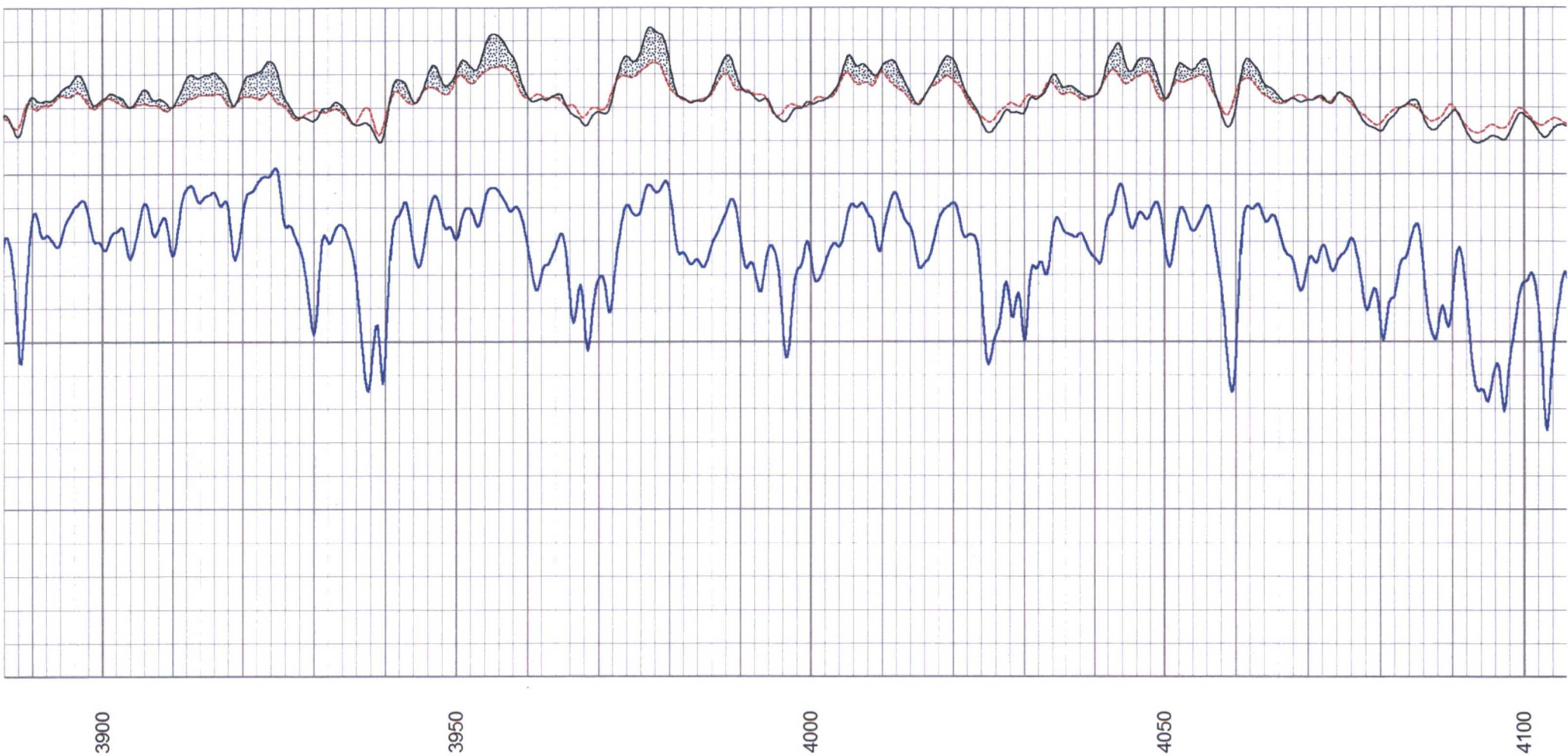
3750

3800

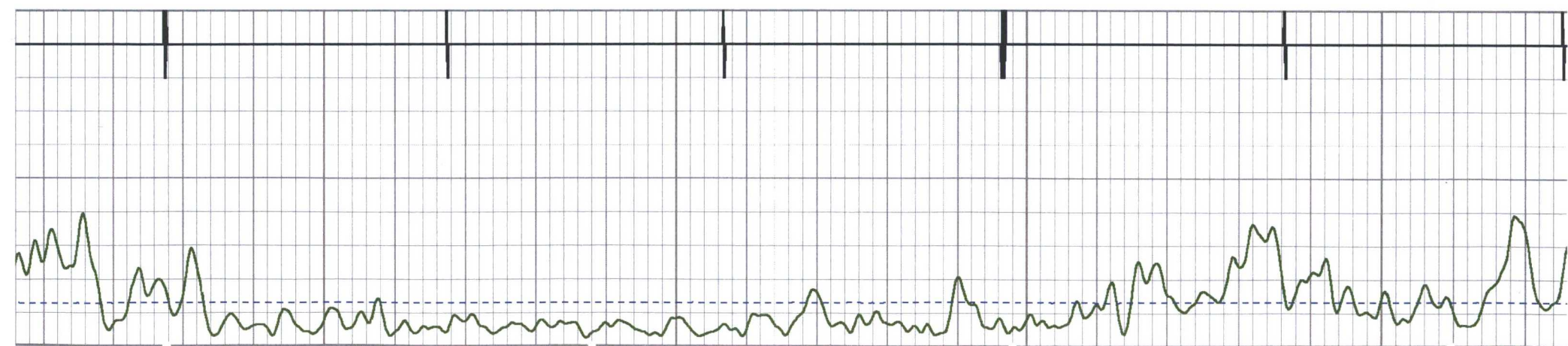
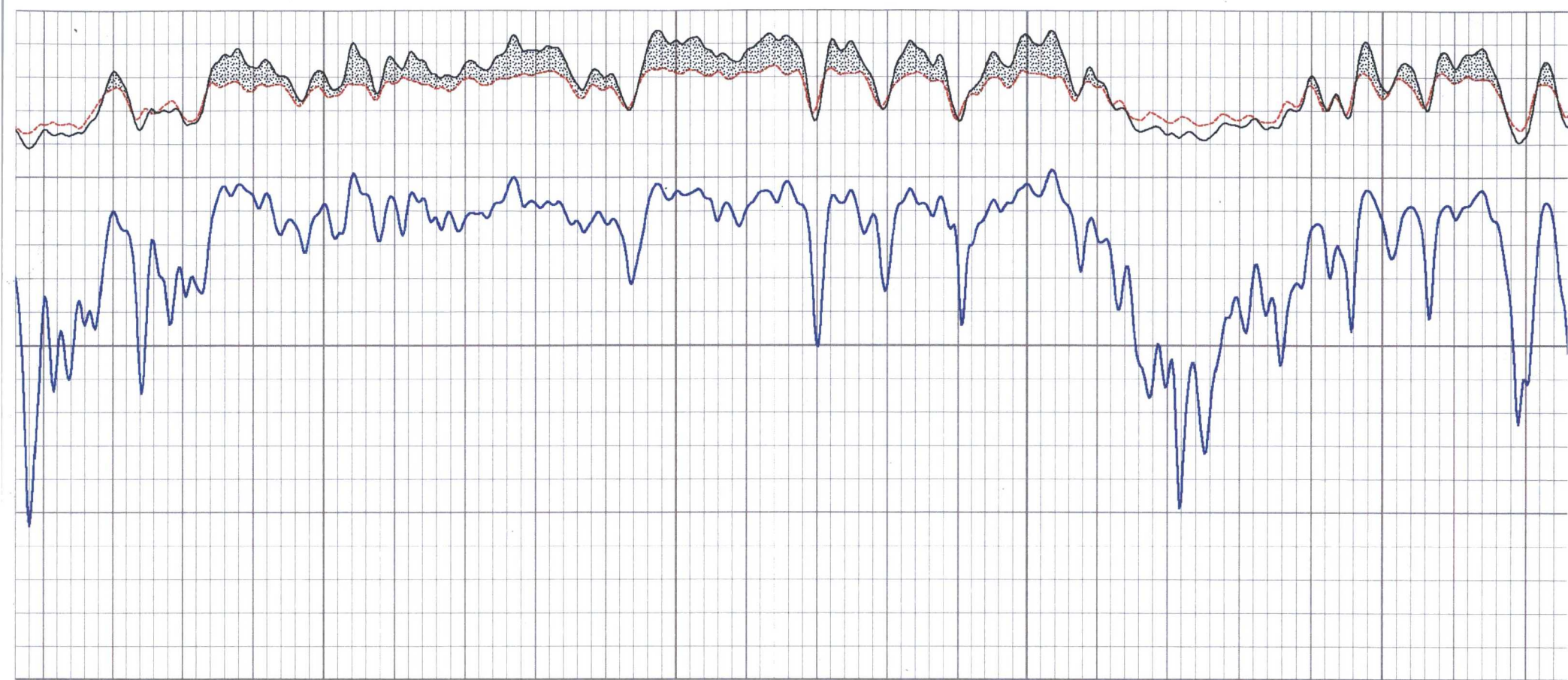
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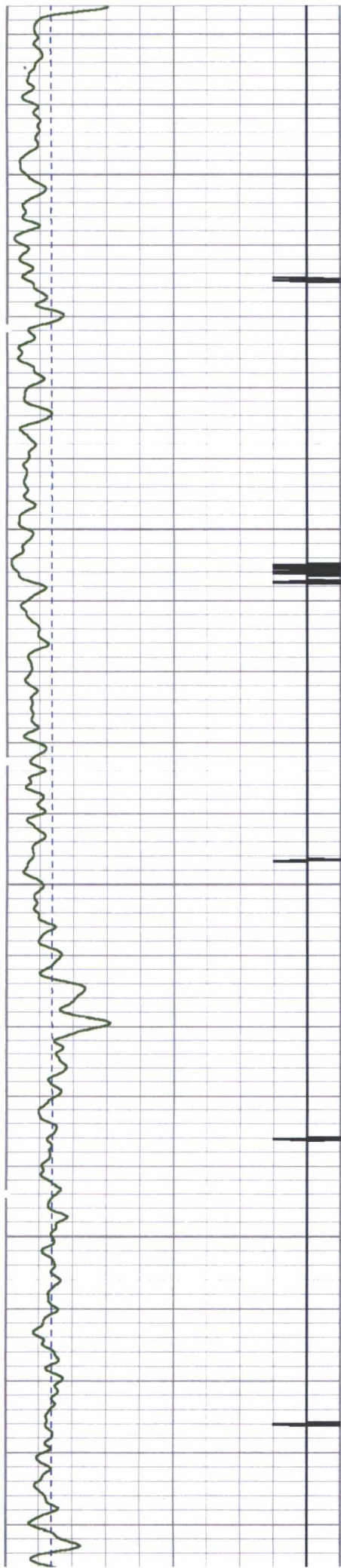












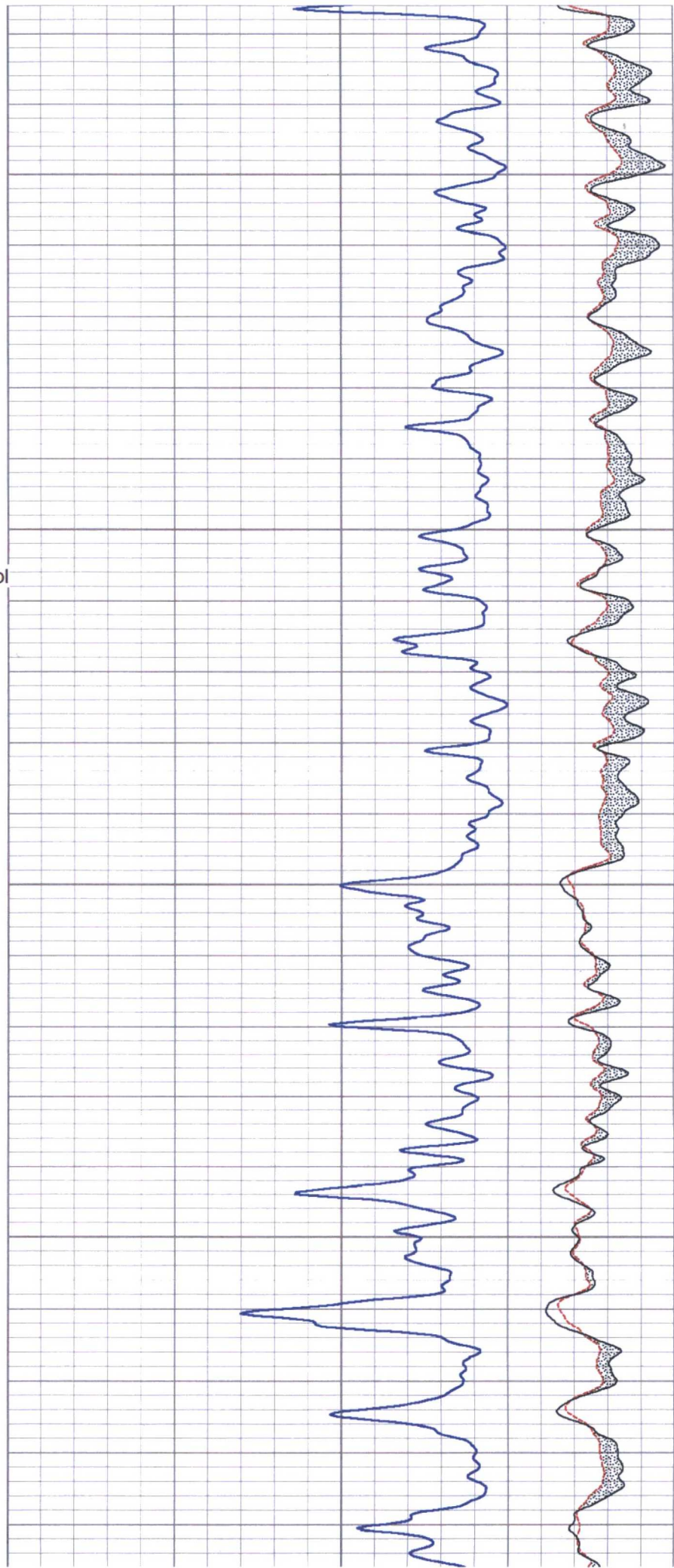
4350

4400

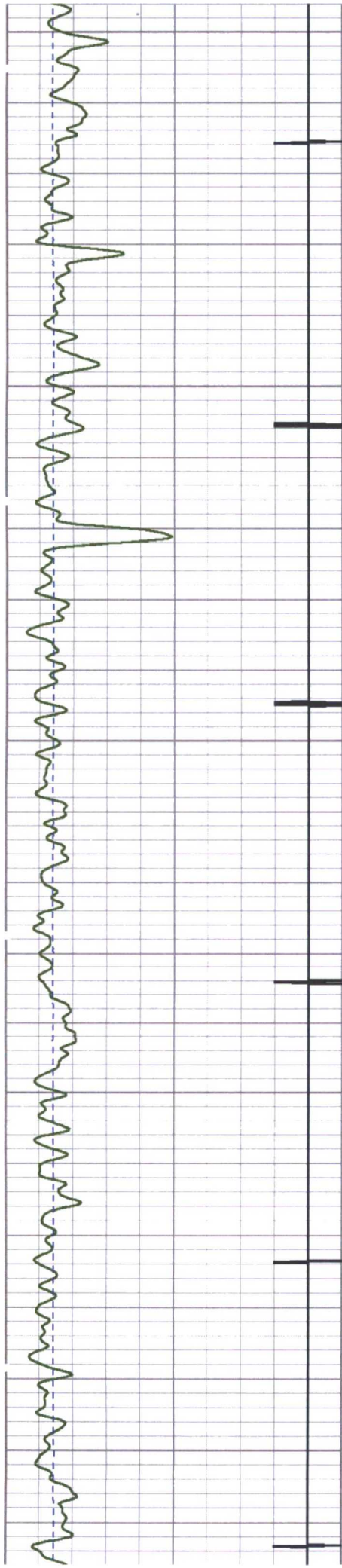
← DV Tool

4450

4500







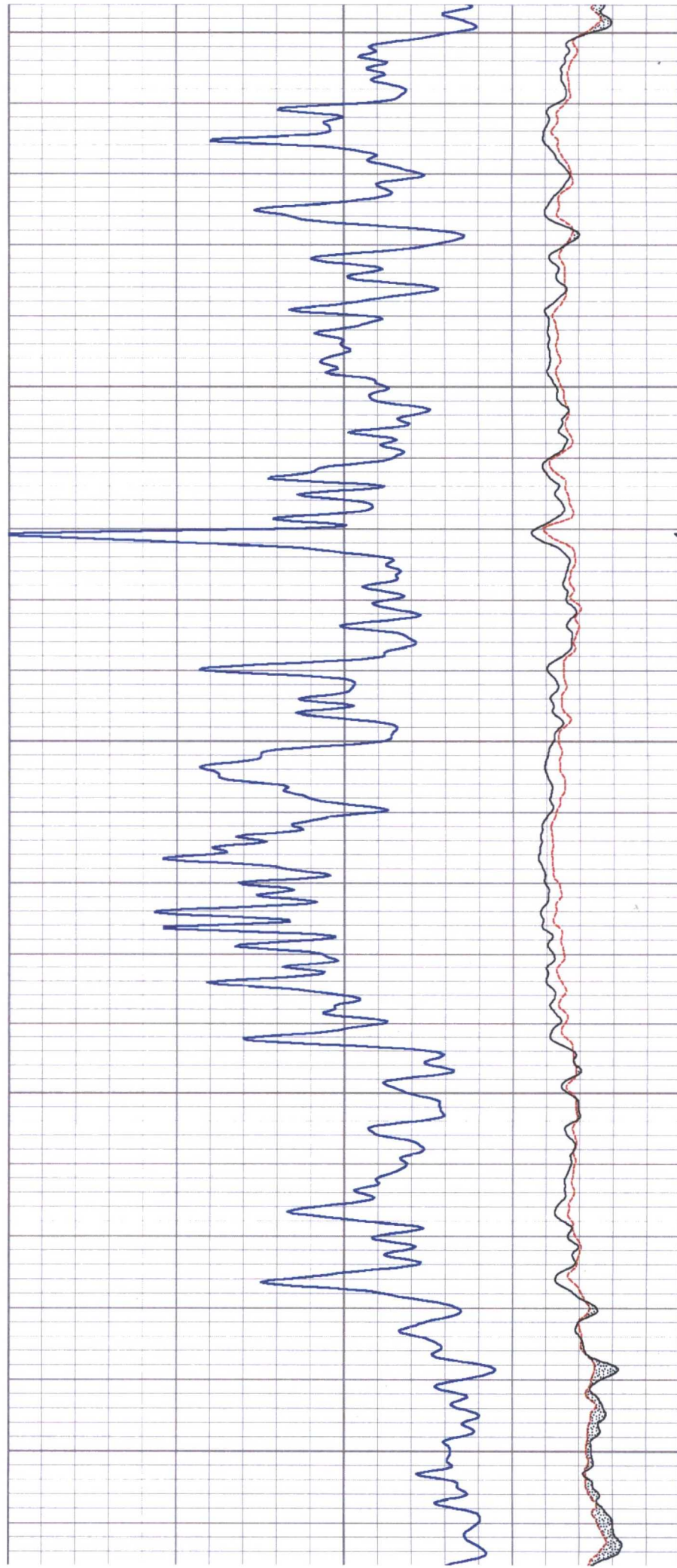
4550

4600

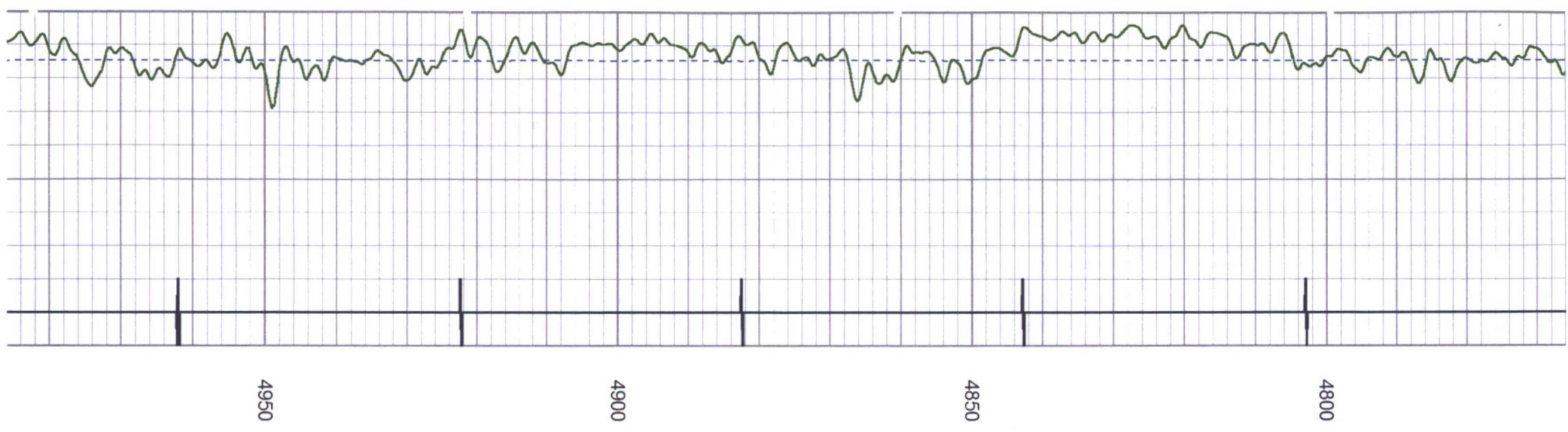
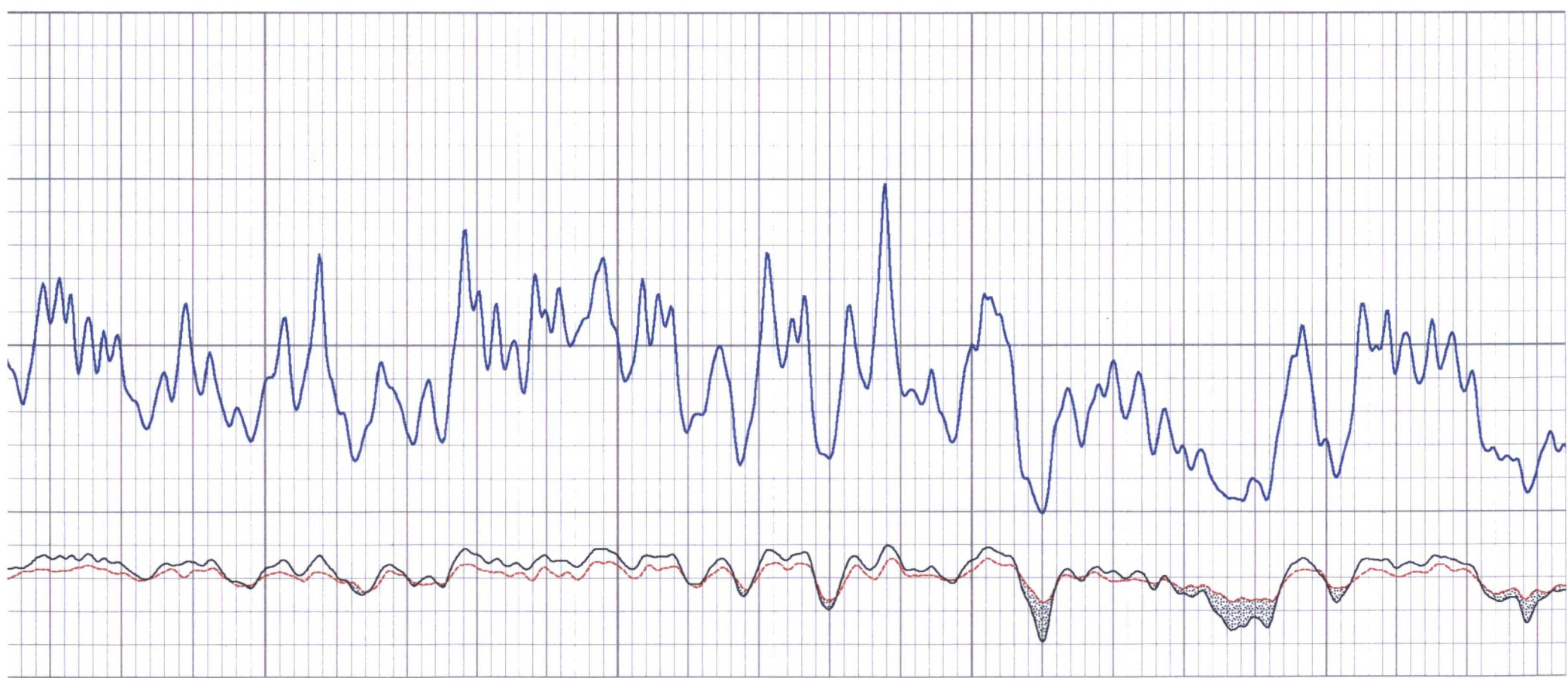
4650

4700

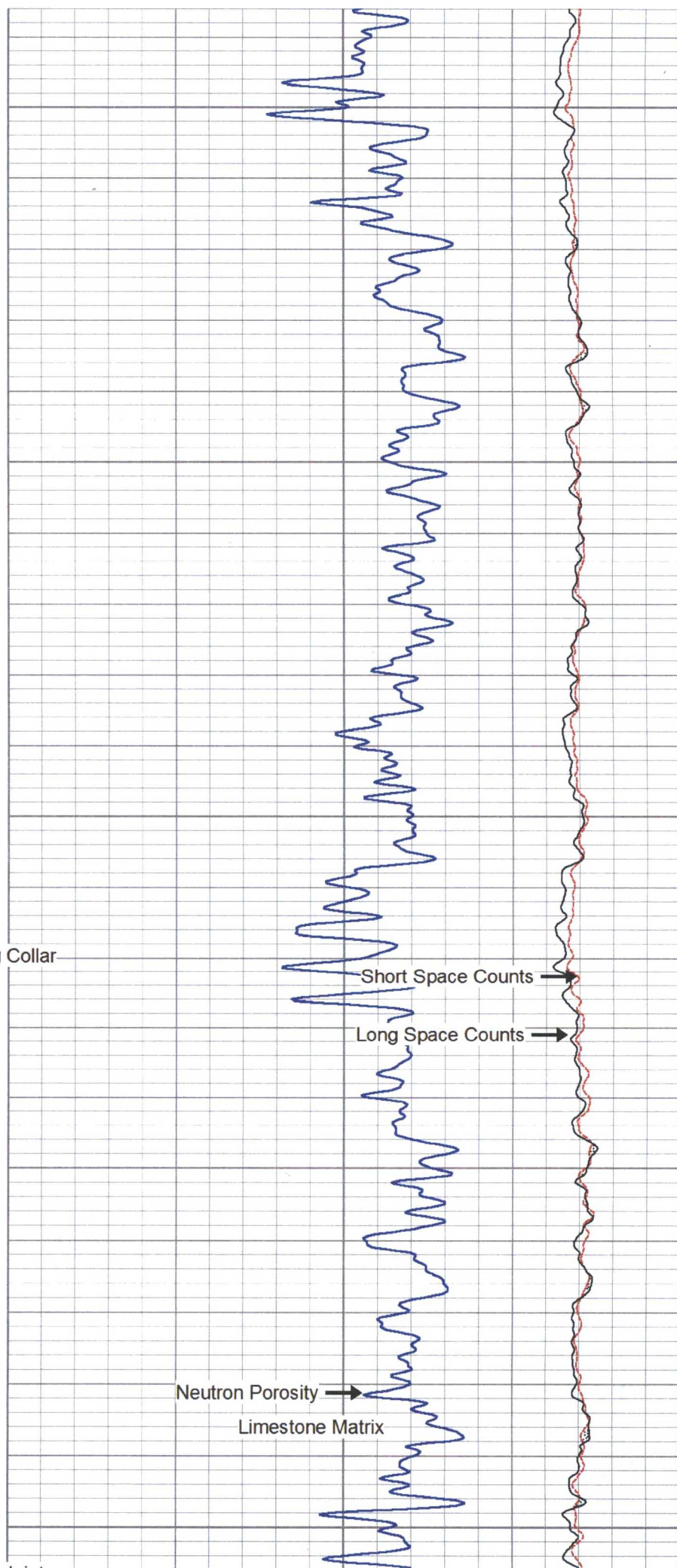
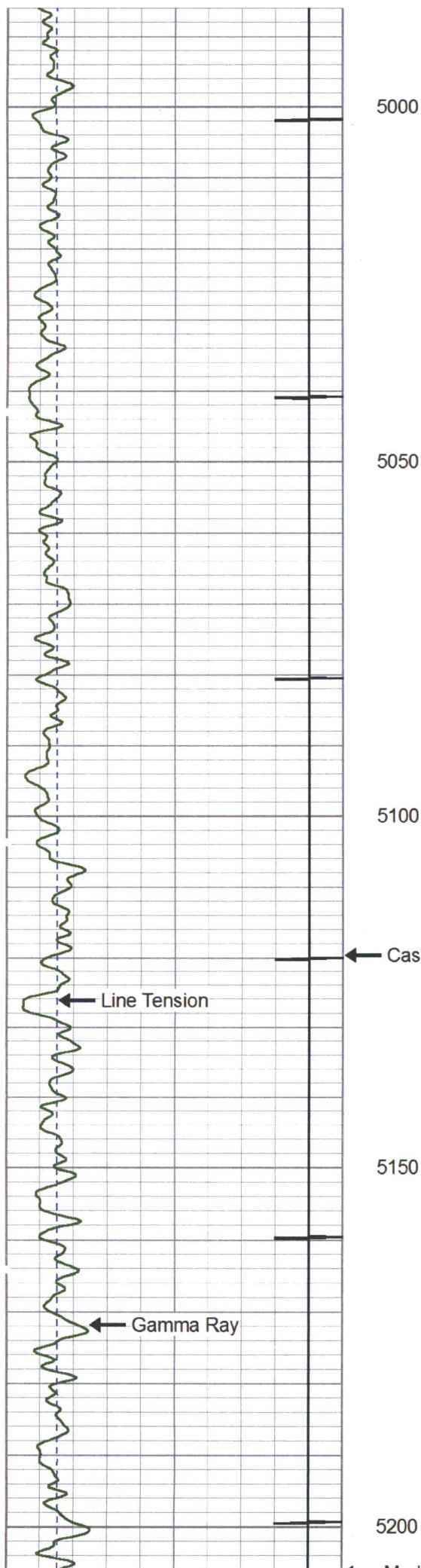
4750





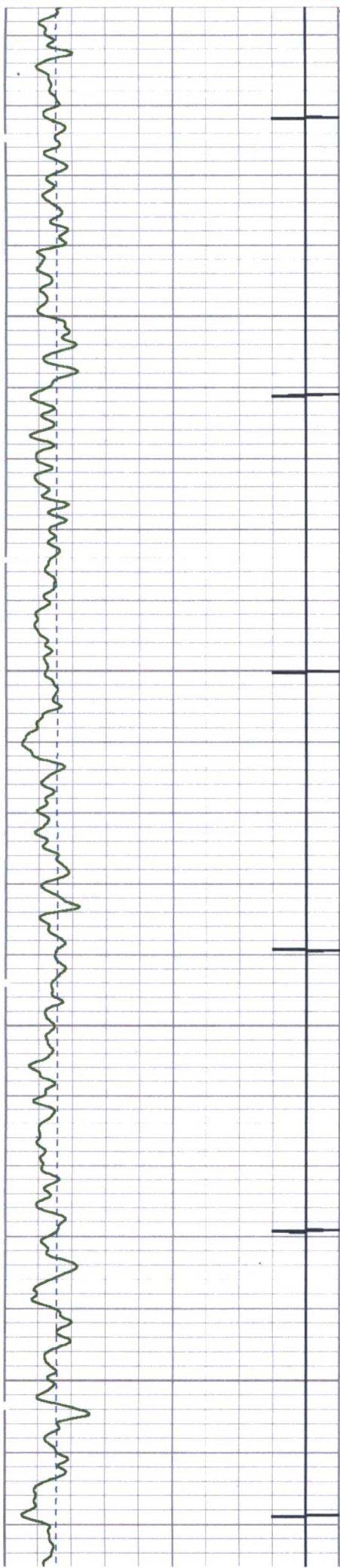








← Marker Joint

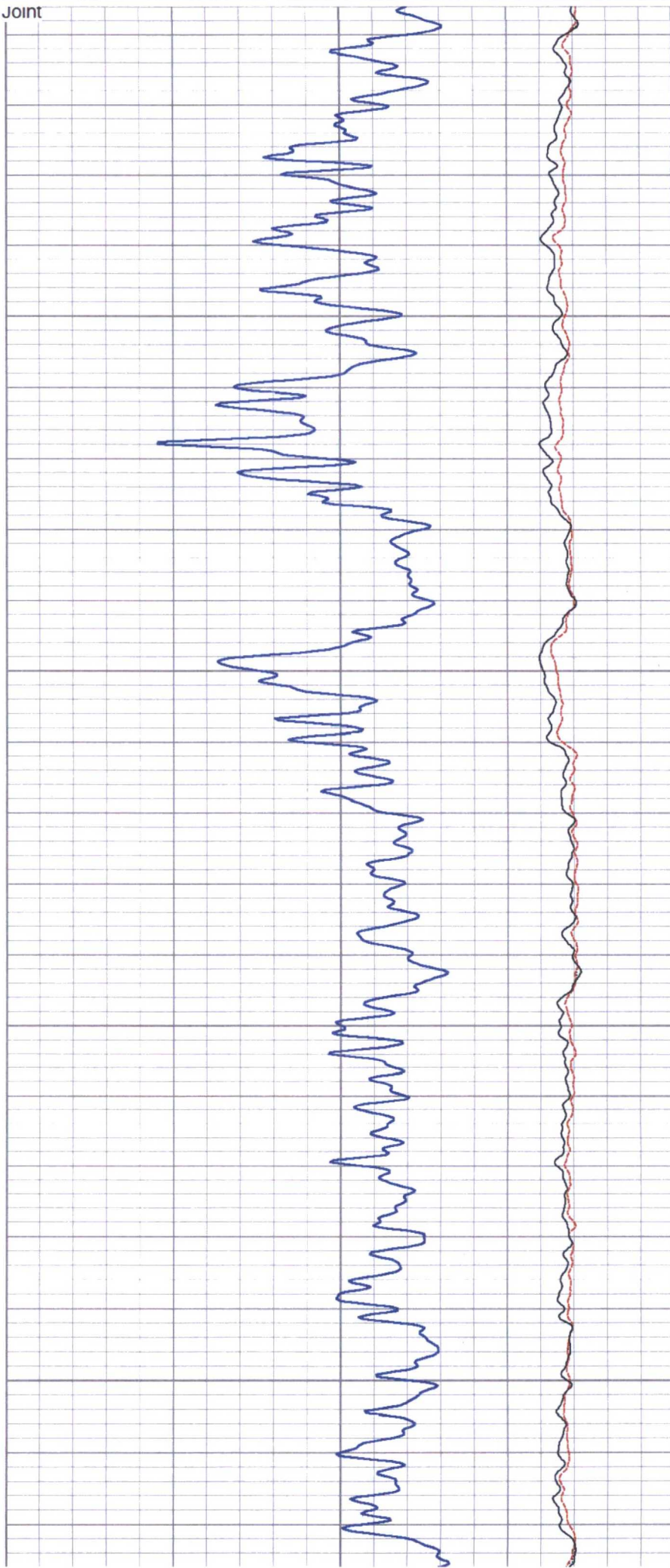


5250

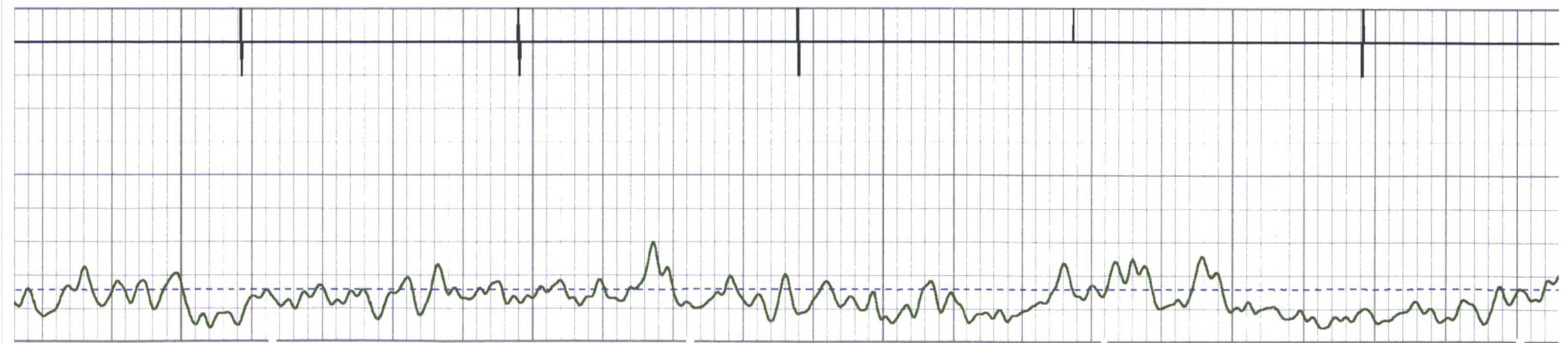
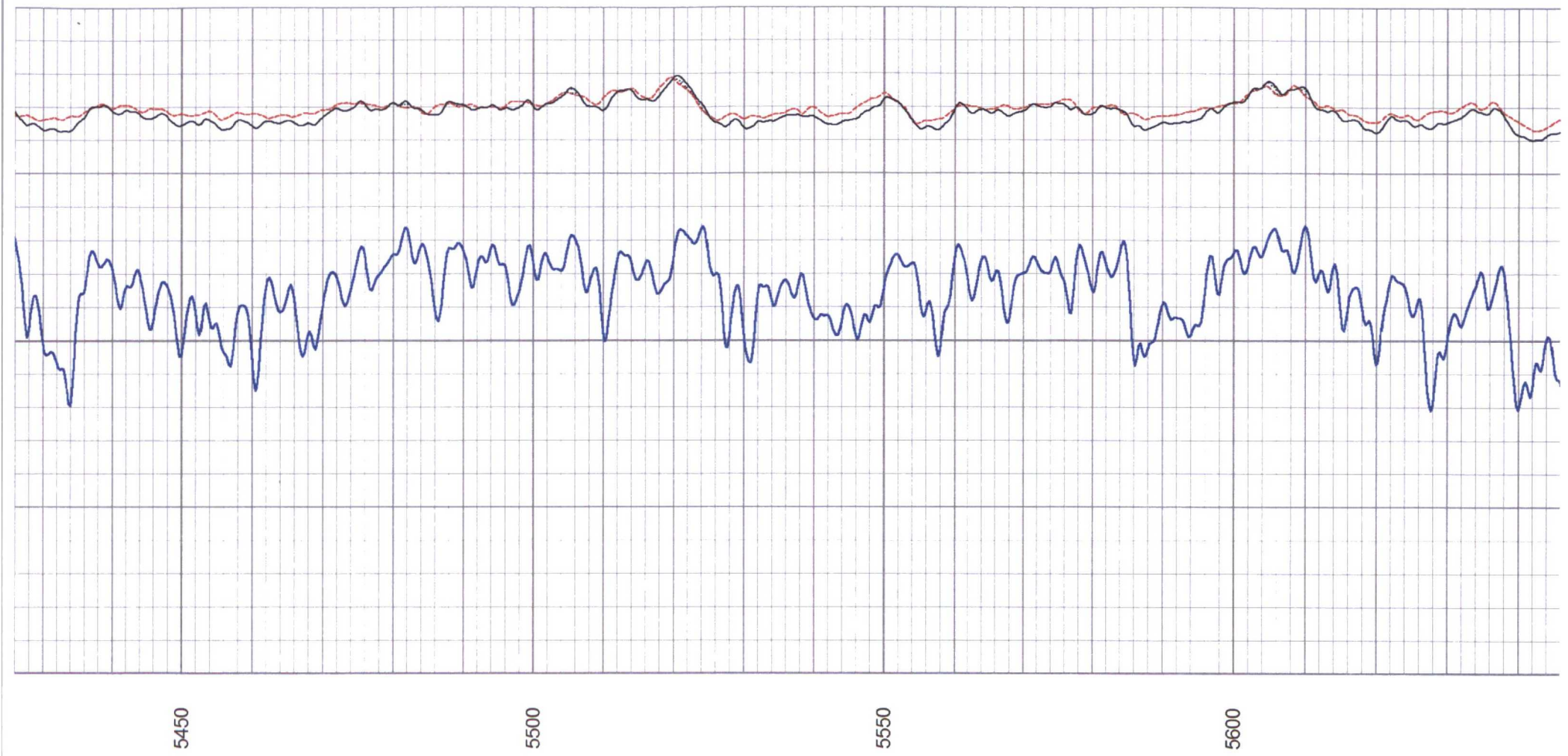
5300

5350

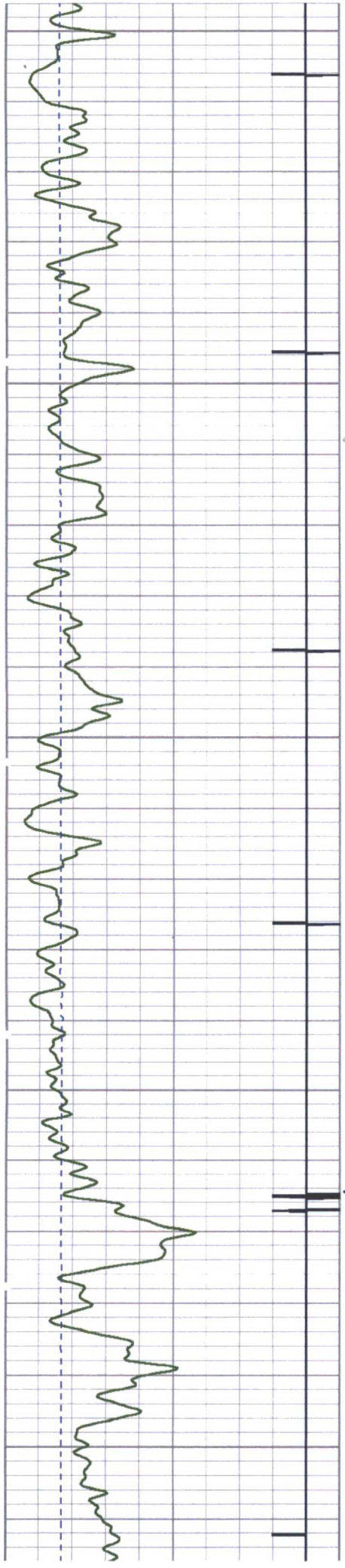
5400











5650

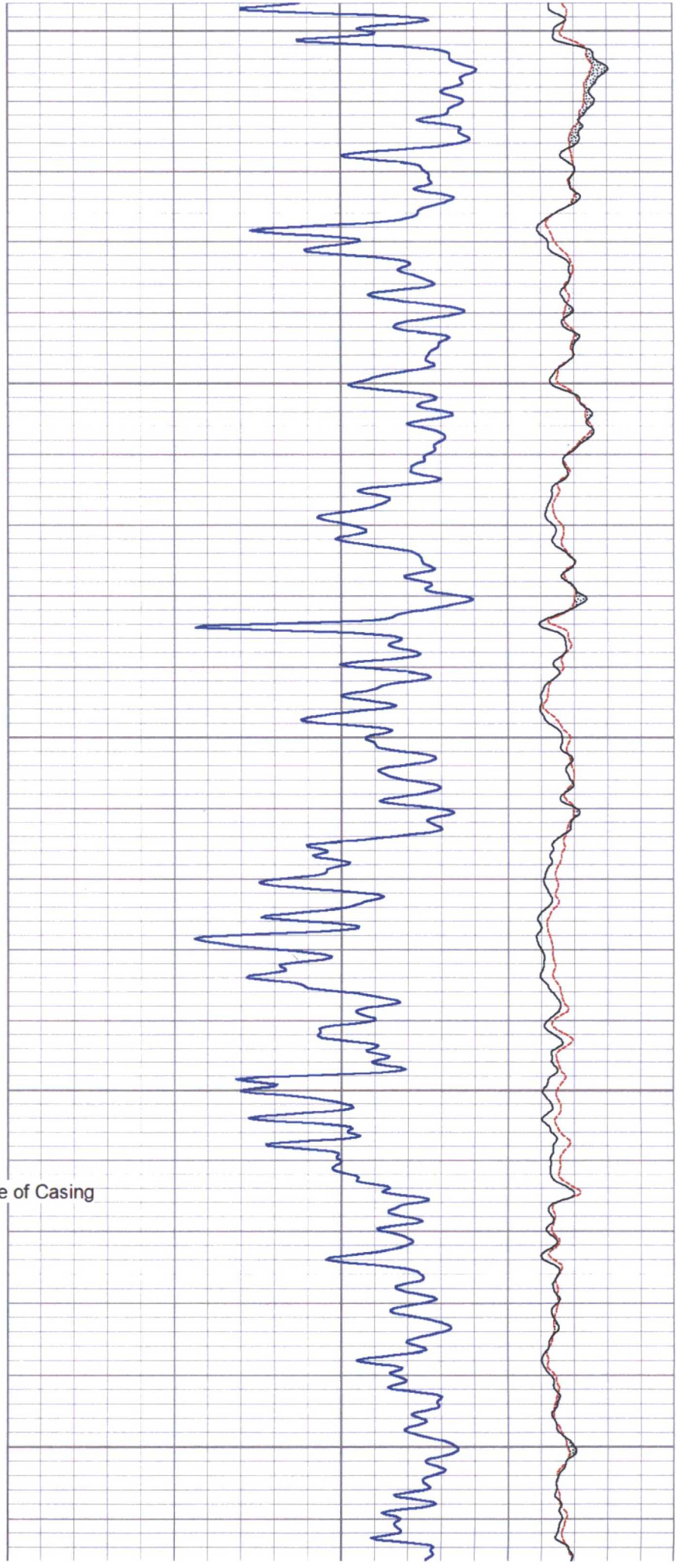
5700

5750

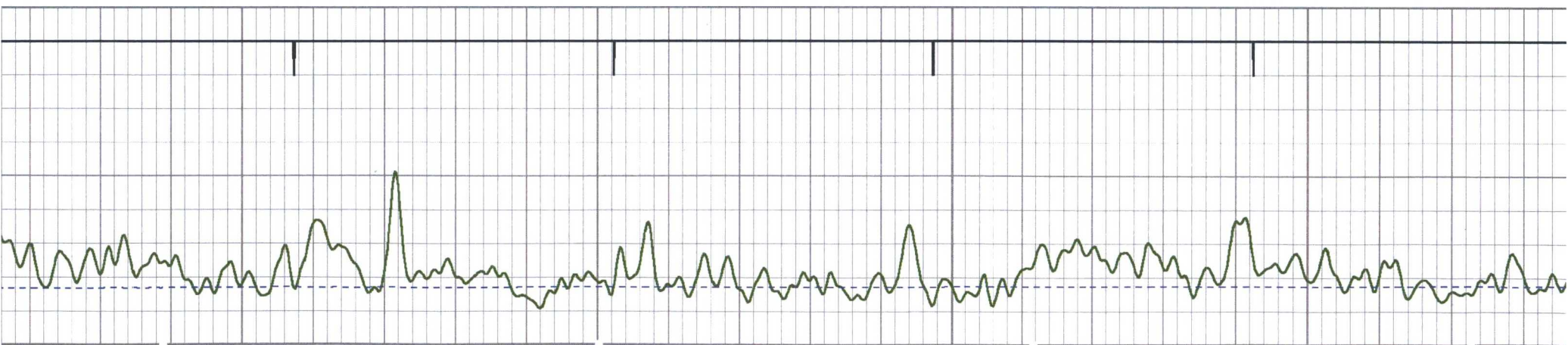
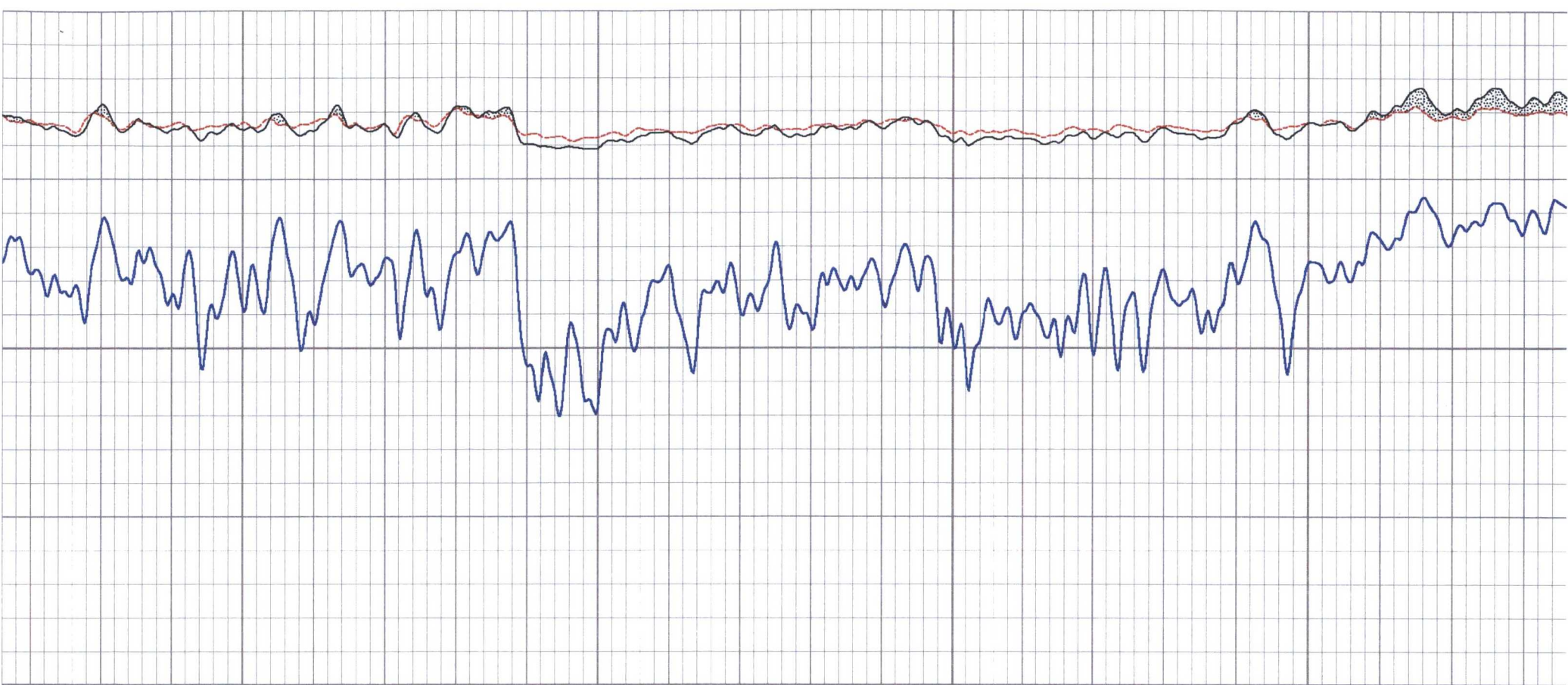
5800

5850

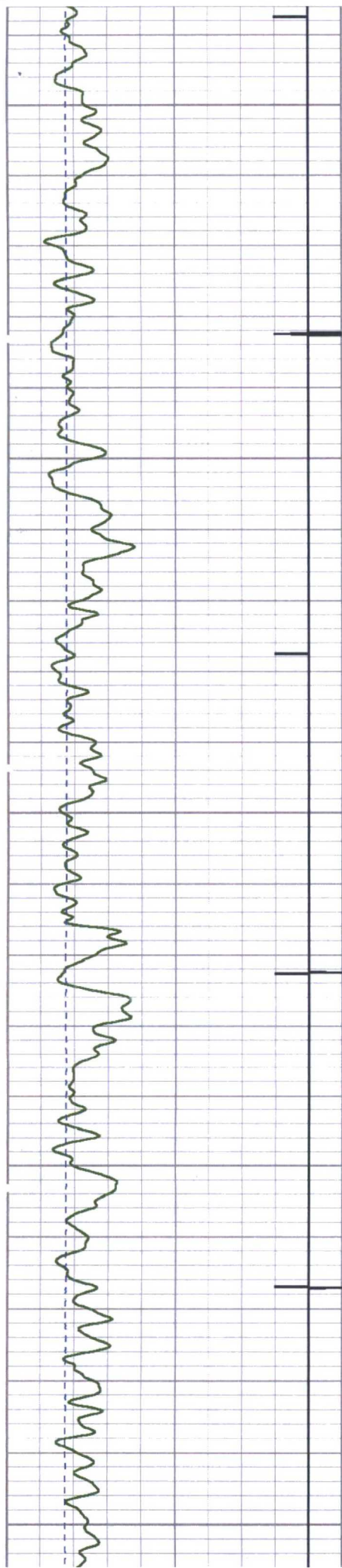
← Change of Casing











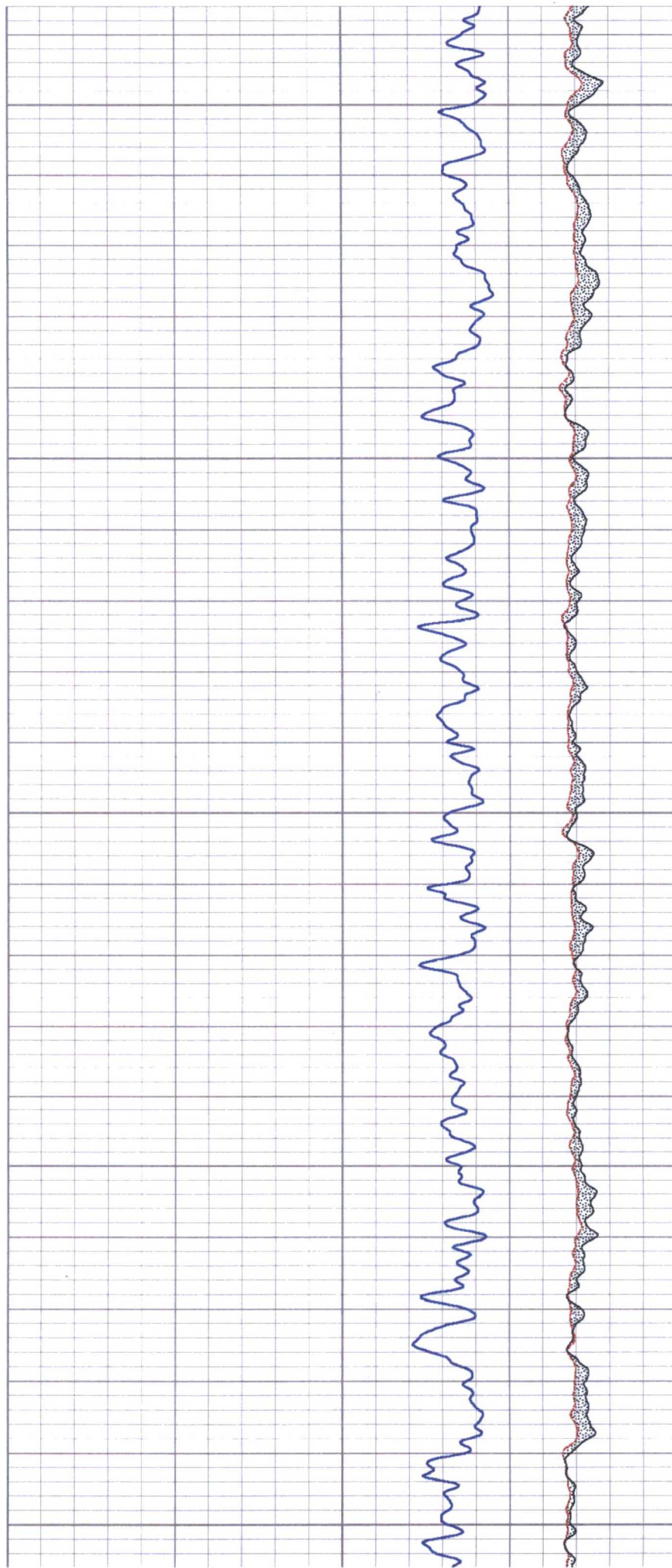
6100

6150

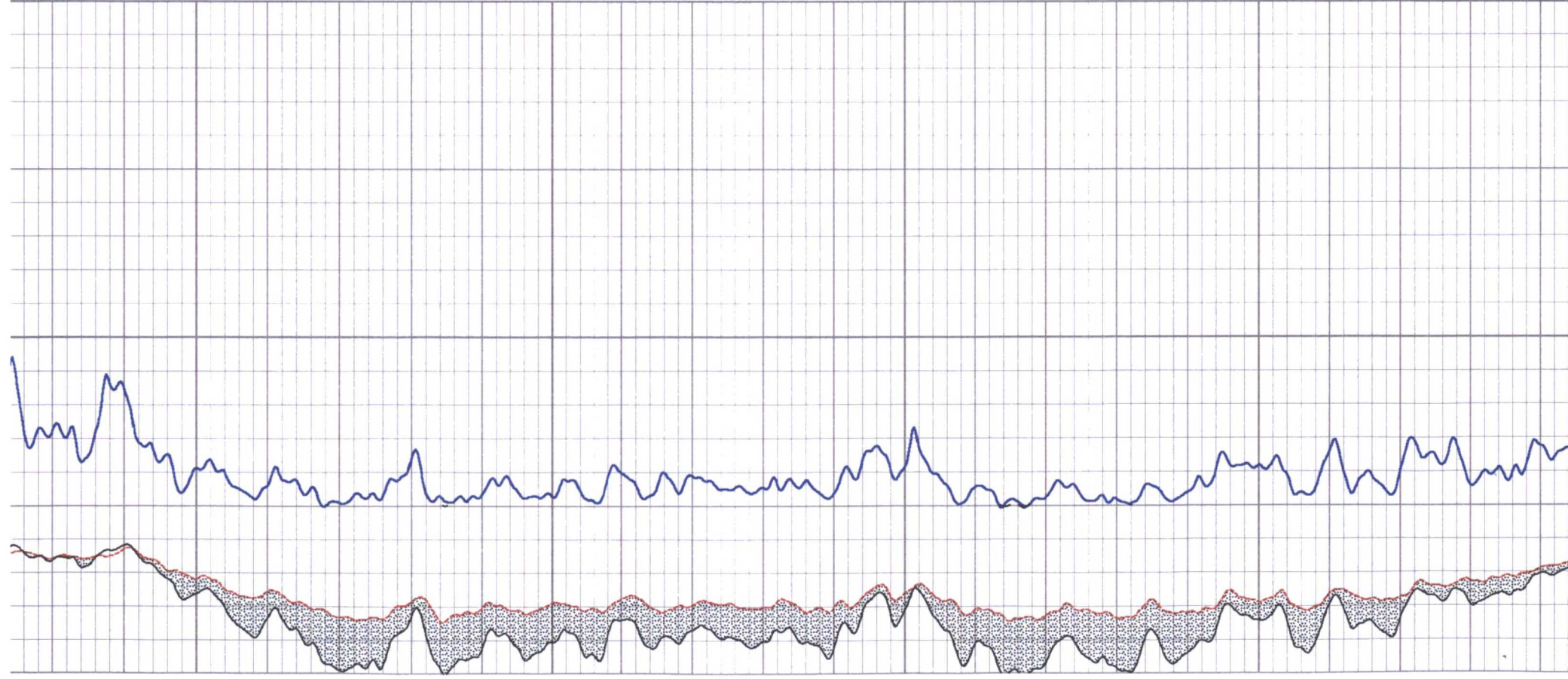
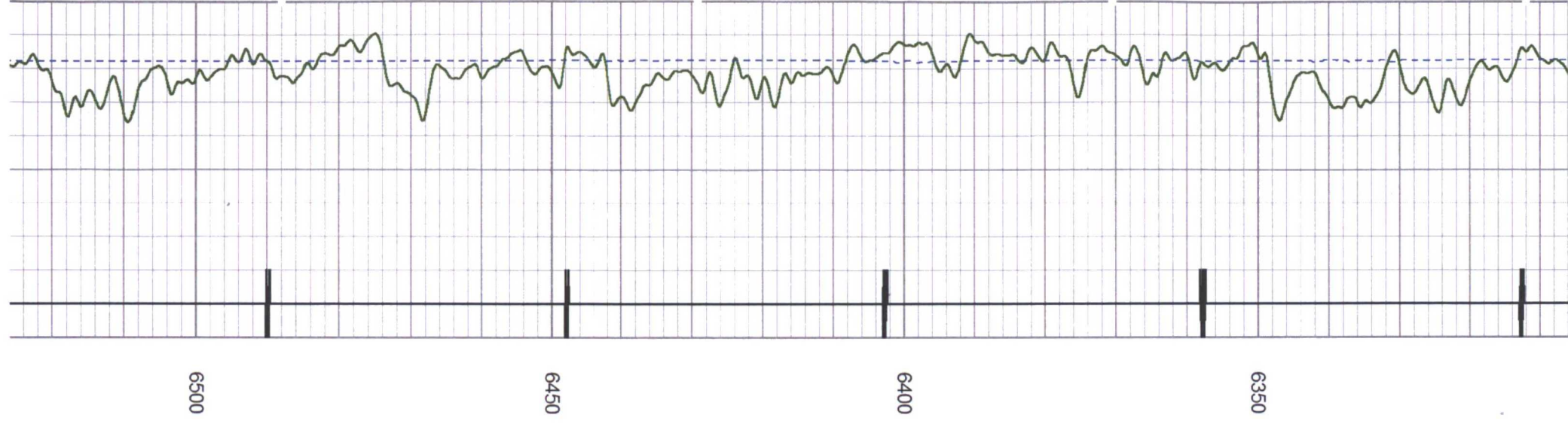
6200

6250

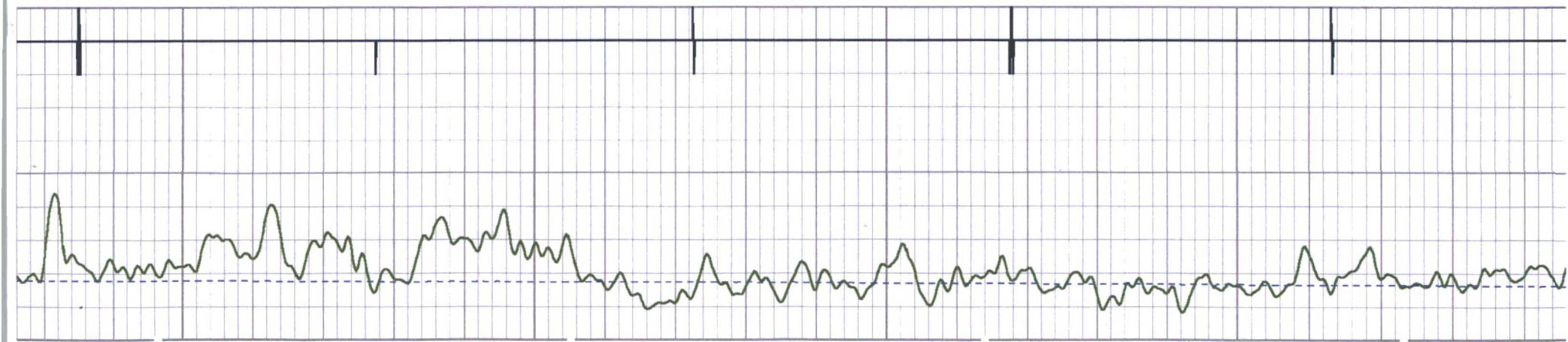
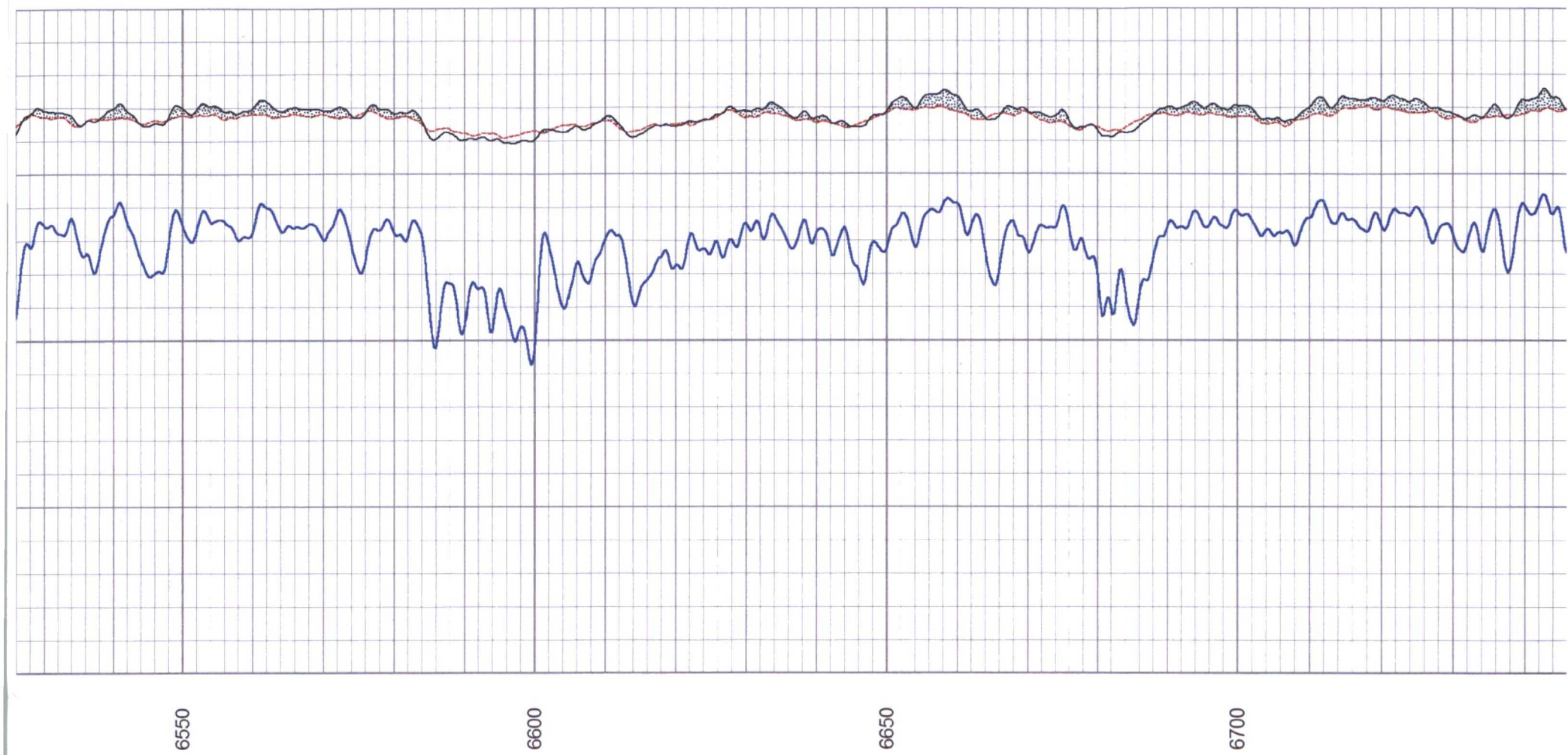
6300



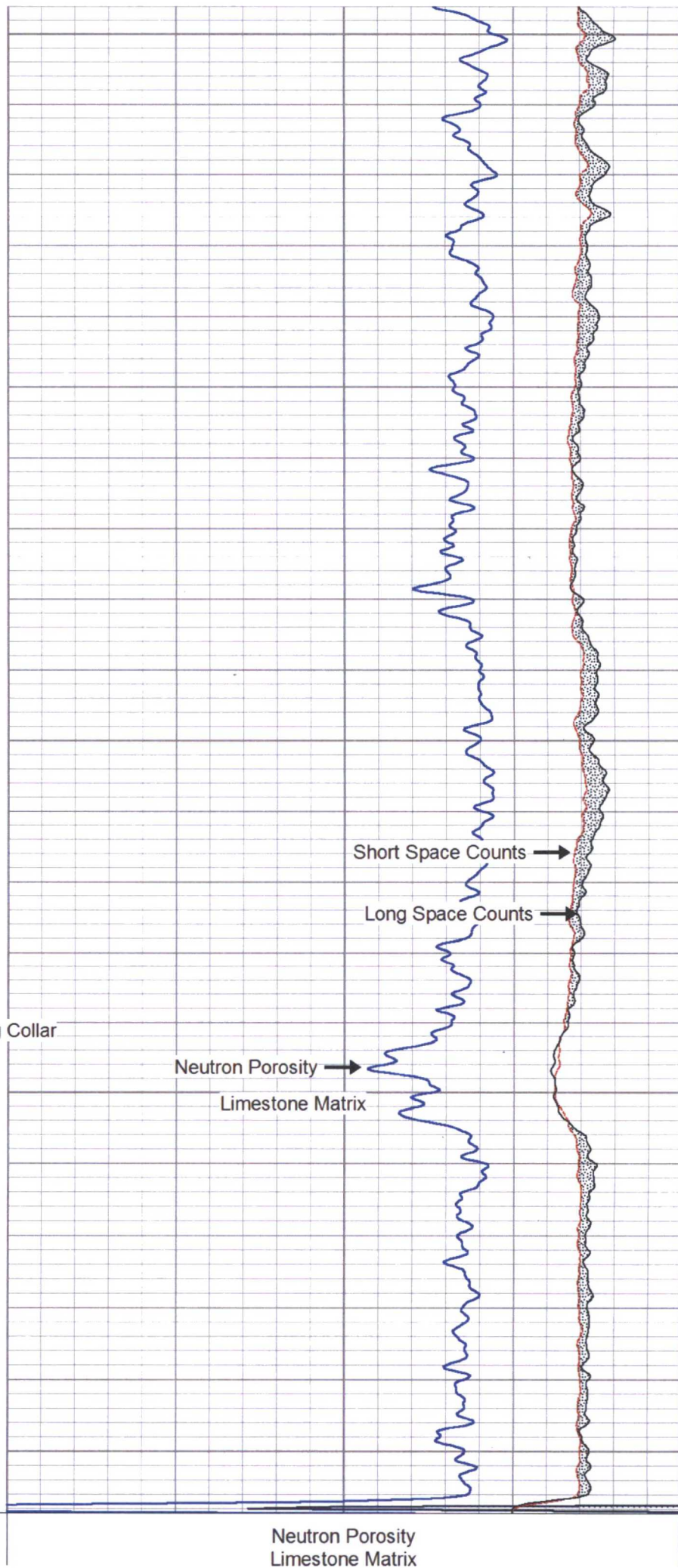
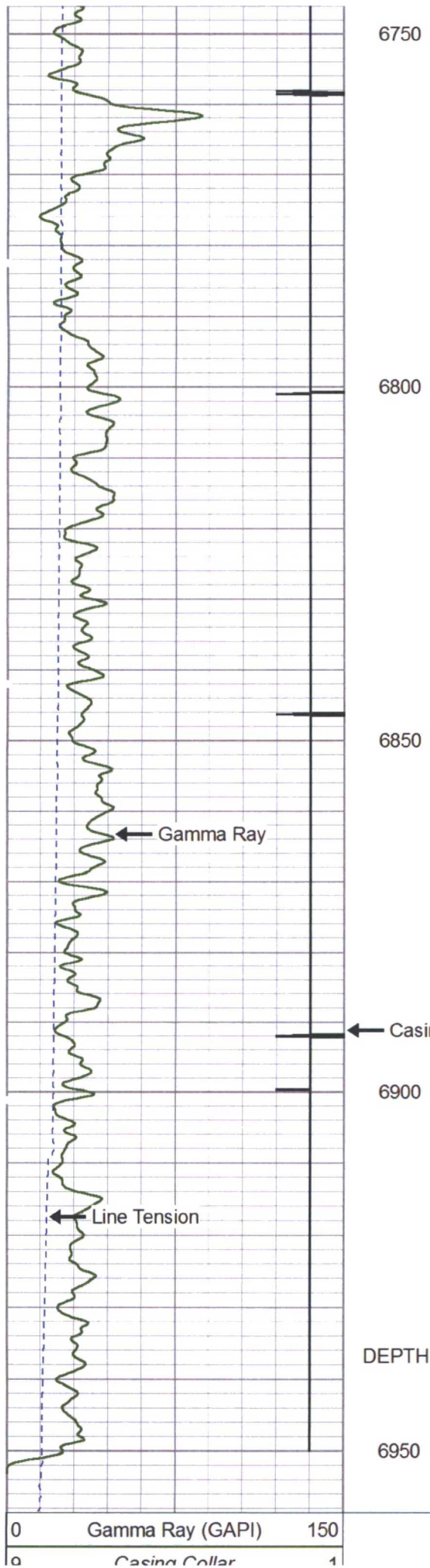














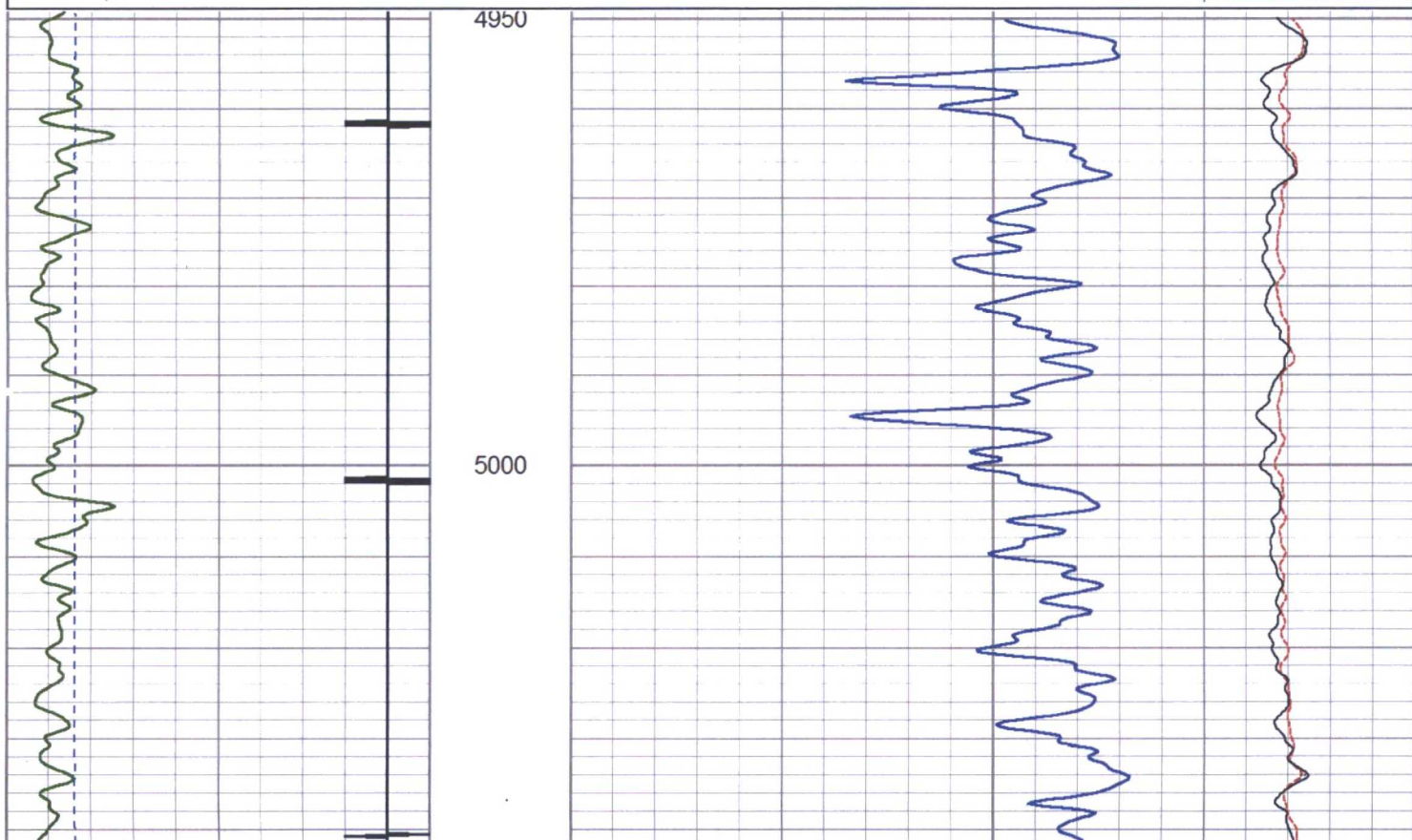
|   |                   |      |    |      |                    |
|---|-------------------|------|----|------|--------------------|
| 0 | Casing Collar     | -1   | 30 | (pu) | -10                |
| 0 | Line Tension (lb) | 5000 |    |      |                    |
|   |                   |      |    |      | Long Space Counts  |
|   |                   |      |    |      | 0 (cps) 1500       |
|   |                   |      |    |      | Short Space Counts |
|   |                   |      |    |      | 0 (cps) 7000       |

|                                                         |                    |
|---------------------------------------------------------|--------------------|
| <b>ALLIED</b><br><b>HORIZONTAL</b><br>WIRELINE SERVICES | <h1>Main Pass</h1> |
|---------------------------------------------------------|--------------------|

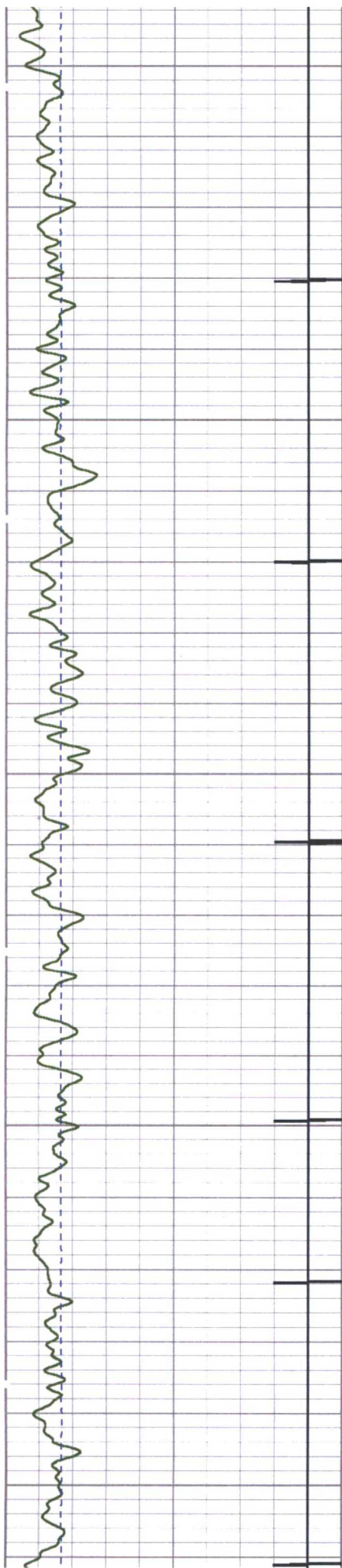
|                                                         |                      |
|---------------------------------------------------------|----------------------|
| <b>ALLIED</b><br><b>HORIZONTAL</b><br>WIRELINE SERVICES | <h1>Repeat Pass</h1> |
|---------------------------------------------------------|----------------------|

Database File: c:\warrior\data\clients\cog\flat head fed com 25h\cog\_flat-head-25h\_rcbl-cn1\_2-9-17.db  
 Dataset Pathname: pass7  
 Presentation Format: cnlspray  
 Dataset Creation: Thu Feb 09 08:02:26 2017 by Log 7.0 B1  
 Charted by: Depth in Feet scaled 1:240

|   |                   |      |    |      |                    |
|---|-------------------|------|----|------|--------------------|
| 0 | Gamma Ray (GAPI)  | 150  |    |      |                    |
| 9 | Casing Collar     | -1   |    |      |                    |
| 0 | Line Tension (lb) | 5000 | 30 | (pu) | -10                |
|   |                   |      |    |      | Long Space Counts  |
|   |                   |      |    |      | 0 (cps) 1500       |
|   |                   |      |    |      | Short Space Counts |
|   |                   |      |    |      | 0 (cps) 7000       |







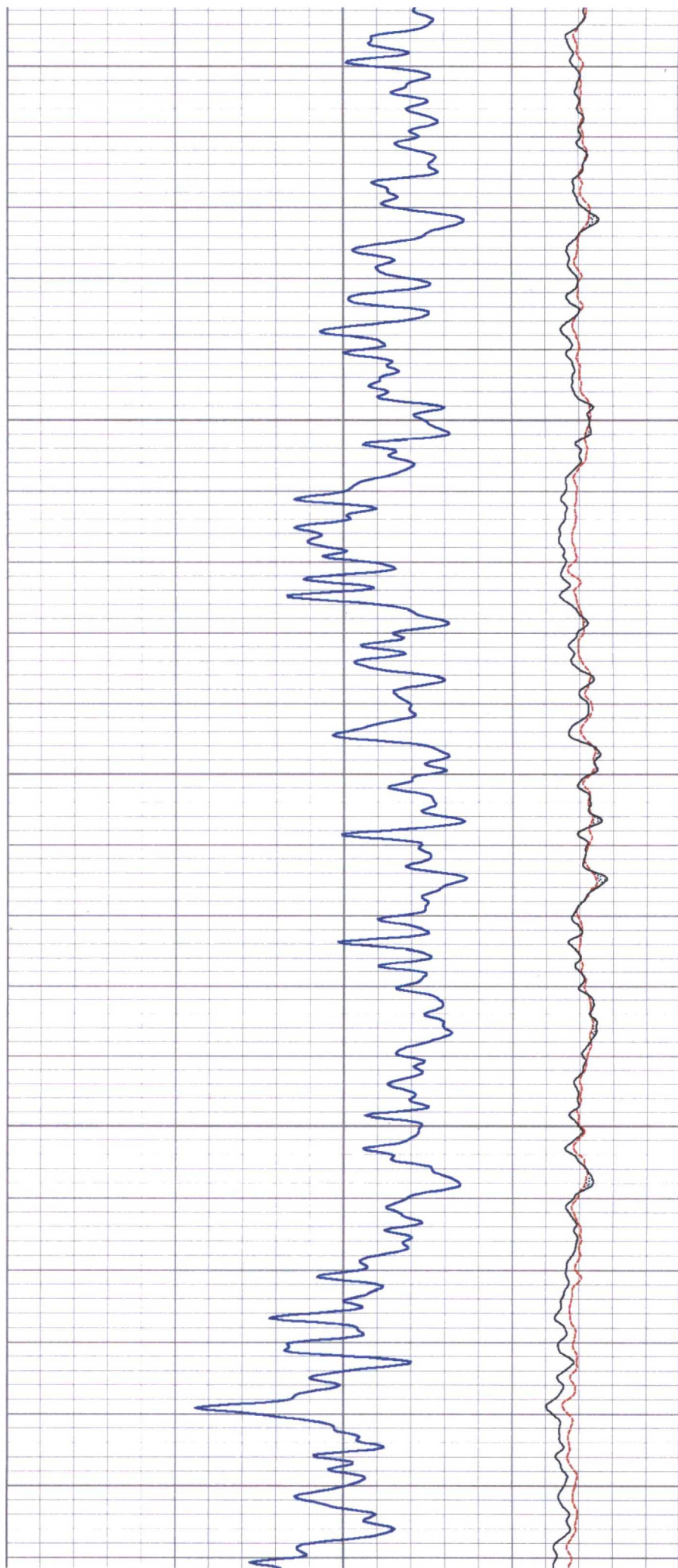
5050

5100

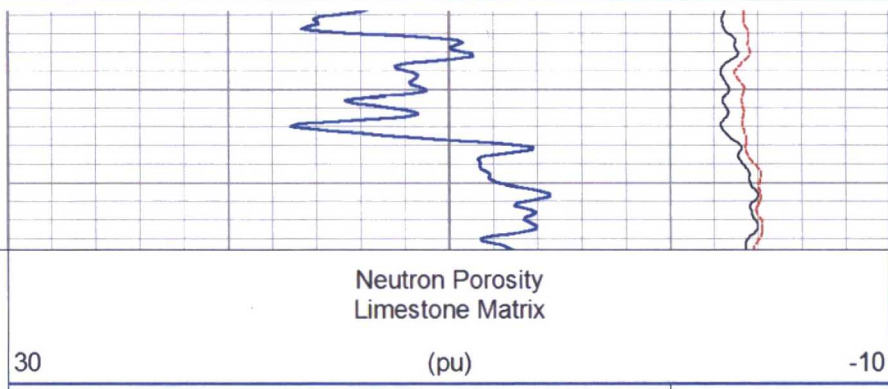
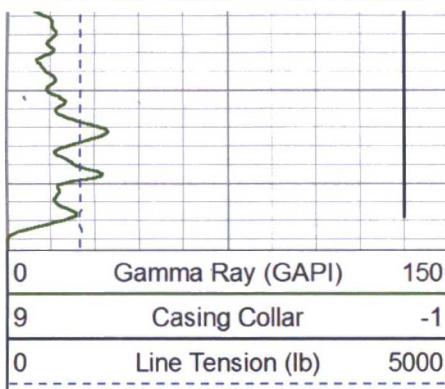
5150

5200

5250







Long Space Counts  
0 (cps) 1500  
Short Space Counts  
0 (cps) 7000



# Repeat Pass

## Log Variables

Database: c:\warrior\data\clients\cog\flat head fed com 25h\cog\_flat-head-25h\_rcbl-cn1\_2-9-17.db  
Dataset: field/well/run1/pass9

### Top - 5816.00 ft

|                    |                         |                       |                    |                         |                      |                         |                         |
|--------------------|-------------------------|-----------------------|--------------------|-------------------------|----------------------|-------------------------|-------------------------|
| XXXX<br>0          | CMTTKCOR<br>On          | CSTKCOR<br>On         | SZCOR<br>On        | CASED?<br>Yes           | NPORSEL<br>Limestone | CMNTTHCK<br>in<br>0.875 | CASETHCK<br>in<br>0.408 |
| PPT<br>usec<br>284 | CASEWGHT<br>lb/ft<br>29 | MAXAMPL<br>mV<br>62.2 | MINAMPL<br>mV<br>1 | MINATTN<br>db/ft<br>0.8 | SRFTEMP<br>degF<br>0 | CASEOD<br>in<br>7       | PERFS<br>0              |
| TDEPTH<br>ft<br>0  | BOTTEMP<br>degF<br>100  | BOREID<br>in<br>8.75  |                    |                         |                      |                         |                         |

### 5816.00 ft - Bottom

|                    |                         |                         |                    |                         |                      |                         |                         |
|--------------------|-------------------------|-------------------------|--------------------|-------------------------|----------------------|-------------------------|-------------------------|
| XXXX<br>0          | CMTTKCOR<br>On          | CSTKCOR<br>On           | SZCOR<br>On        | CASED?<br>Yes           | NPORSEL<br>Limestone | CMNTTHCK<br>in<br>1.625 | CASETHCK<br>in<br>0.304 |
| PPT<br>usec<br>263 | CASEWGHT<br>lb/ft<br>17 | MAXAMPL<br>mV<br>71.921 | MINAMPL<br>mV<br>1 | MINATTN<br>db/ft<br>0.8 | SRFTEMP<br>degF<br>0 | CASEOD<br>in<br>5.5     | PERFS<br>0              |
| TDEPTH<br>ft<br>0  | BOTTEMP<br>degF<br>100  | BOREID<br>in<br>8.75    |                    |                         |                      |                         |                         |

### Calibration Report

Database File: c:\warrior\data\clients\cog\flat head fed com 25h\cog\_flat-head-25h\_rcbl-cn1\_2-9-17.db  
Dataset Pathname: pass9  
Dataset Creation: Thu Feb 09 08:19:54 2017 by Log 7.0 B1



## Compensated Neutron Calibration Report

Serial Number: 110501  
Tool Model: 275BL

## RATIO CALIBRATION

Fri Jan 20 11:53:41 2017

|             | Measured | Target | Normalization |
|-------------|----------|--------|---------------|
| Sleeve Down | 0.0000   | 0.0000 | m=0.9257      |
| Sleeve Up   | 3.2142   | 2.9755 | b=0.0000      |

## Gamma Ray Calibration Report

Serial Number: 110649  
Tool Model: Probe275  
Performed: Fri Jan 27 06:21:45 2017

Calibrator Value: 1049.0 GAPI  
Background Reading: 45.3 cps  
Calibrator Reading: 1895.9 cps  
Sensitivity: 0.5760 GAPI/cps

## Segmented Cement Bond Log Calibration Report

Serial Number: FW1408-31  
Tool Model: RBTC3

Calibration Casing Diameter: 7.000 in  
Calibration Depth: 868.450 ft

Master Calibration, performed Thu Feb 09 07:34:54 2017:

|     | Raw (v) |       | Calibrated (mv) |         | Results |        |
|-----|---------|-------|-----------------|---------|---------|--------|
|     | Zero    | Cal   | Zero            | Cal     | Gain    | Offset |
| 3'  | -0.007  | 0.437 | 1.000           | 62.165  | 137.704 | 1.956  |
| CAL | 0.686   | 0.671 |                 |         |         |        |
| 5'  | 0.001   | 0.494 | 1.000           | 62.165  | 124.109 | 0.895  |
| SUM |         |       |                 |         |         |        |
| S1  | -0.011  | 0.445 | 0.000           | 100.000 | 219.266 | 2.495  |
| S2  | -0.005  | 0.456 | 0.000           | 100.000 | 216.949 | 1.099  |
| S3  | -0.006  | 0.452 | 0.000           | 100.000 | 218.238 | 1.271  |
| S4  | -0.006  | 0.445 | 0.000           | 100.000 | 221.633 | 1.388  |
| S5  | -0.006  | 0.430 | 0.000           | 100.000 | 229.641 | 1.315  |
| S6  | -0.006  | 0.418 | 0.000           | 100.000 | 236.074 | 1.403  |
| S7  | -0.006  | 0.424 | 0.000           | 100.000 | 232.707 | 1.318  |
| S8  | -0.006  | 0.439 | 0.000           | 100.000 | 225.123 | 1.245  |

Internal Reference Calibration, performed Wed Dec 31 18:00:00 1969:

|     | Raw (v) |       | Calibrated (v) |       | Results |        |
|-----|---------|-------|----------------|-------|---------|--------|
|     | Zero    | Cal   | Zero           | Cal   | Gain    | Offset |
| CAL | 0.000   | 0.000 | 0.686          | 0.671 | 1.000   | 0.000  |

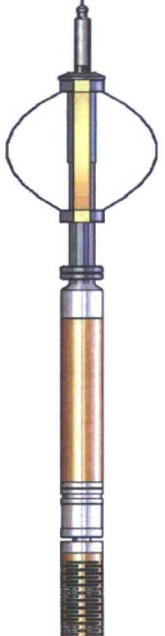
Air Zero Calibration, performed Thu Feb 09 07:08:57 2017:

|  | Raw (v) | Calibrated (v) | Results |
|--|---------|----------------|---------|
|  | Zero    | Zero           | Offset  |

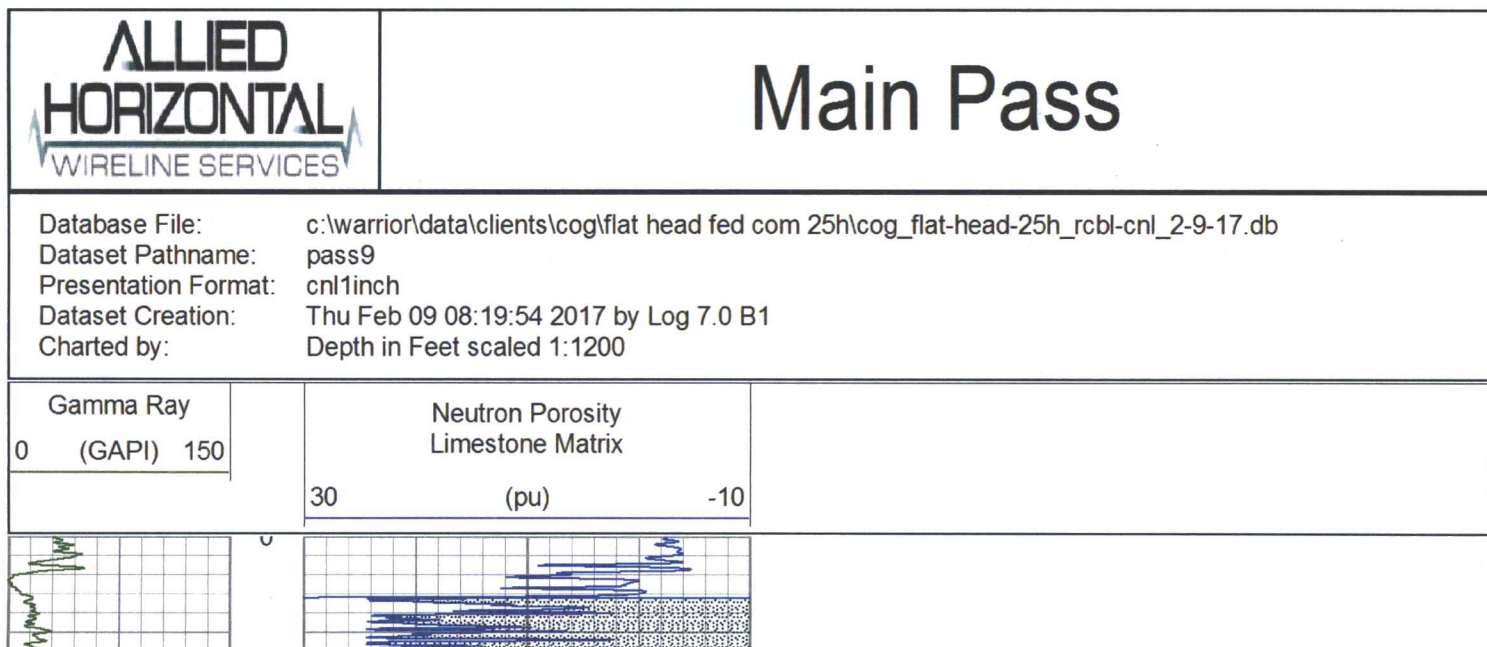
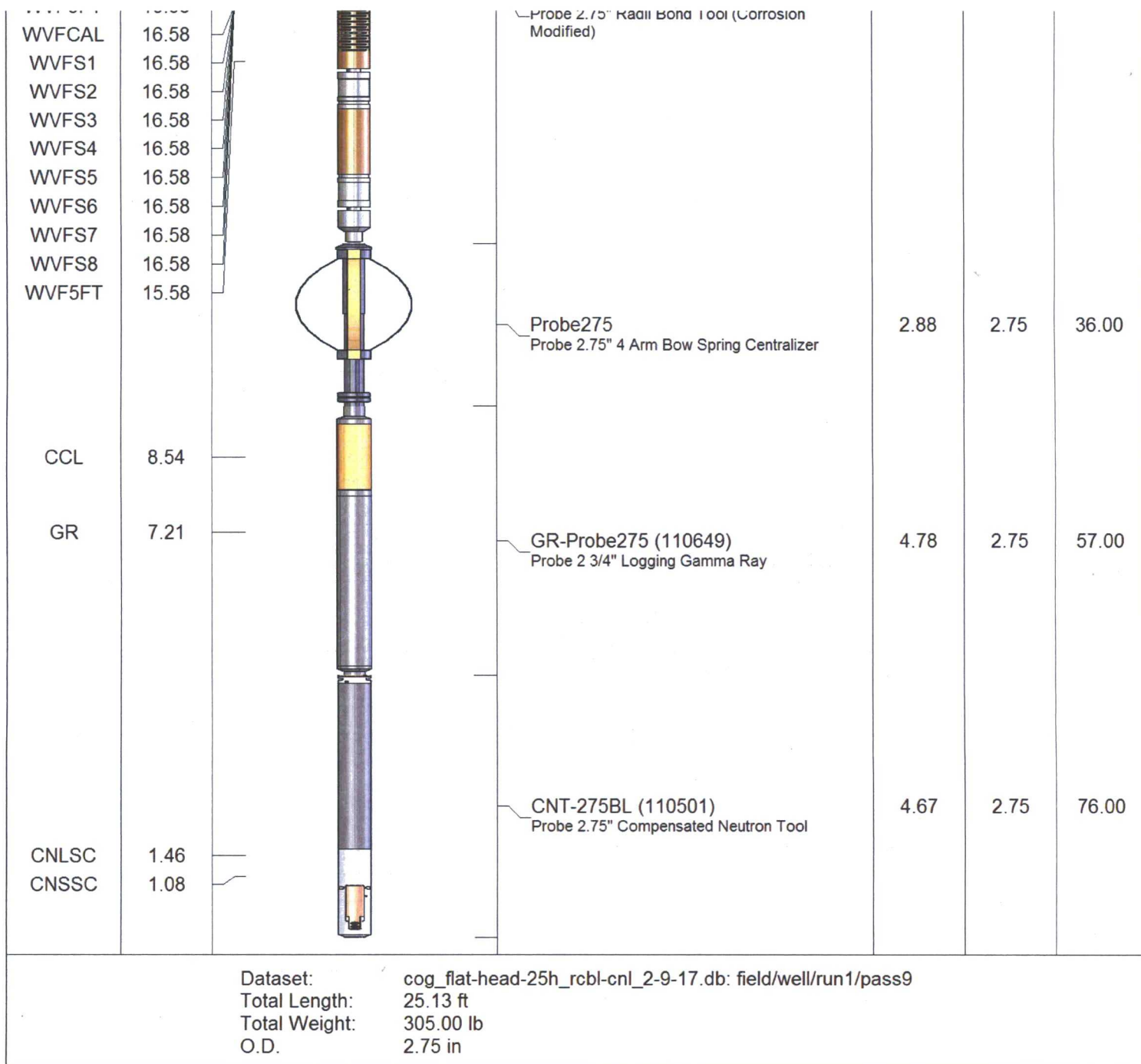


|     |       |       |       |
|-----|-------|-------|-------|
| 3'  | 0.000 | 0.000 | 0.000 |
| 5'  | 0.000 | 0.000 | 0.000 |
| SUM |       |       |       |
| S1  | 0.000 | 0.000 | 0.000 |
| S2  | 0.000 | 0.000 | 0.000 |
| S3  | 0.000 | 0.000 | 0.000 |
| S4  | 0.000 | 0.000 | 0.000 |
| S5  | 0.000 | 0.000 | 0.000 |
| S6  | 0.000 | 0.000 | 0.000 |
| S7  | 0.000 | 0.000 | 0.000 |
| S8  | 0.000 | 0.000 | 0.000 |

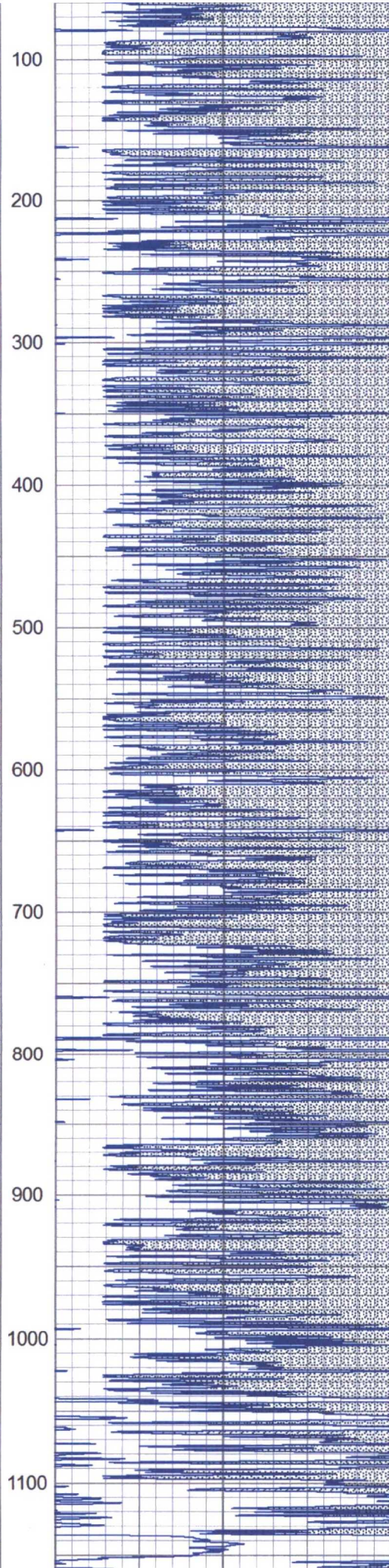
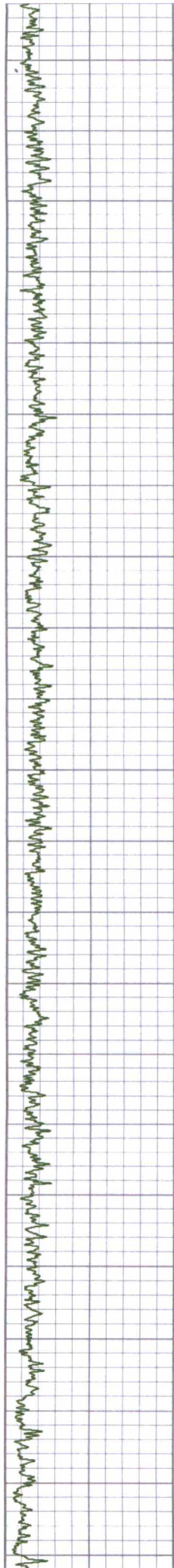
|                                                                                            |           |                          |           |                        |                      |
|--------------------------------------------------------------------------------------------|-----------|--------------------------|-----------|------------------------|----------------------|
| Service Ticket No. 27368                                                                   |           | API No. 30-025-43109     |           | PGM Ver Warrior 7.0 CH |                      |
| The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client |           |                          |           |                        |                      |
| EQUIPMENT DATA                                                                             |           |                          |           |                        |                      |
| Radial Bond Tool                                                                           |           | Compensated Neutron Tool |           | Logging Gamma Ray      |                      |
| Run No.                                                                                    | One       | Run No.                  | One       | Run No.                | One                  |
| Serial No.                                                                                 | FW1408-31 | Serial No.               | 110501    | Serial No.             | 110649               |
| Model No.                                                                                  | RCBT      | Model No.                | CNT       | Model No.              | GR-CCL               |
| Diameter                                                                                   | 2.75 IN   | Diameter                 | 2.75 IN   | Diameter               | 2.75 IN              |
| LOGGING DATA                                                                               |           |                          |           |                        |                      |
| General Data                                                                               |           |                          |           |                        |                      |
| Pass                                                                                       | Depths    |                          | Well Head | Speed                  | Logging Run Comments |
| No.                                                                                        | From      | To                       | Pressure  | Ft/Min                 |                      |
| pass9                                                                                      | 6909 FT   | Surface                  | 1500 PSI  | 60 FT/MIN              |                      |
| pass7                                                                                      | 5287 FT   | 4949 FT                  | 0 PSI     | 60 FT/MIN              |                      |
|                                                                                            |           |                          |           |                        |                      |
| Pass                                                                                       | Scale     |                          | Scale     |                        | Scale                |
| No.                                                                                        | L         | R                        | L         | R                      | L                    |
|                                                                                            |           |                          |           |                        |                      |
|                                                                                            |           |                          |           |                        |                      |
| DIRECTIONAL INFORMATION                                                                    |           |                          |           |                        |                      |
| Maximum Deviation                                                                          | 90        | deg. @                   | 6944 FT   | KOP                    | 5900 FT              |
|                                                                                            |           |                          |           |                        |                      |
|                                                                                            |           |                          |           |                        |                      |

| Sensor | Offset (ft) | Schematic                                                                           | Description                                          | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-------------------------------------------------------------------------------------|------------------------------------------------------|----------|---------|---------|
| Temp   | 18.82       |  | CHD-STNDRD (GOI)<br>Standard Cable Head              | 1.00     | 1.69    | 10.00   |
|        |             |                                                                                     | Probe275<br>Probe 2.75" 4 Arm Bow Spring Centralizer | 2.88     | 2.75    | 36.00   |
|        |             |                                                                                     | RBT-RBTC3 (FW1408-31)                                | 8.92     | 2.75    | 90.00   |
| WVF3FT | 16.58       |                                                                                     |                                                      |          |         |         |

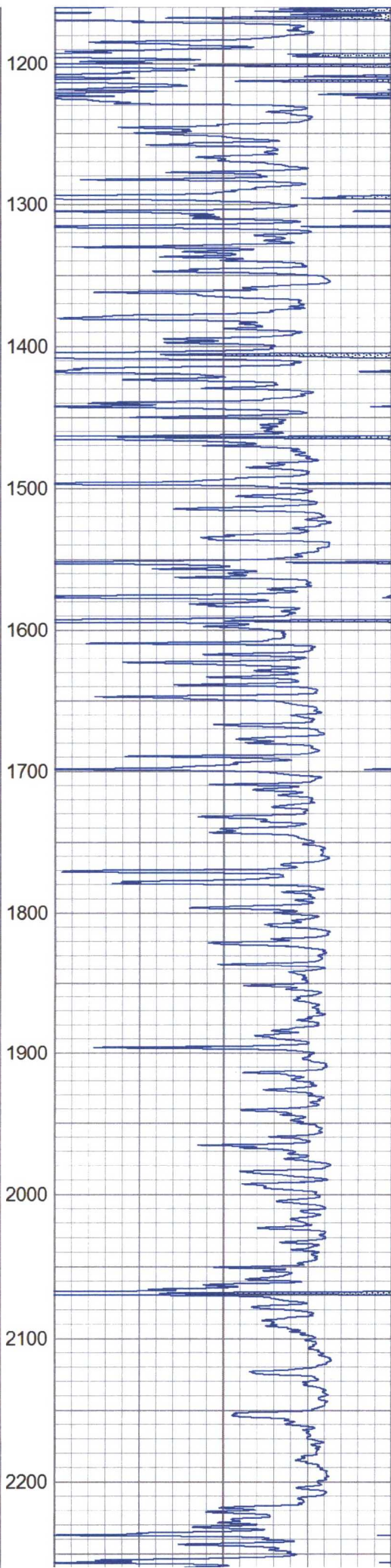
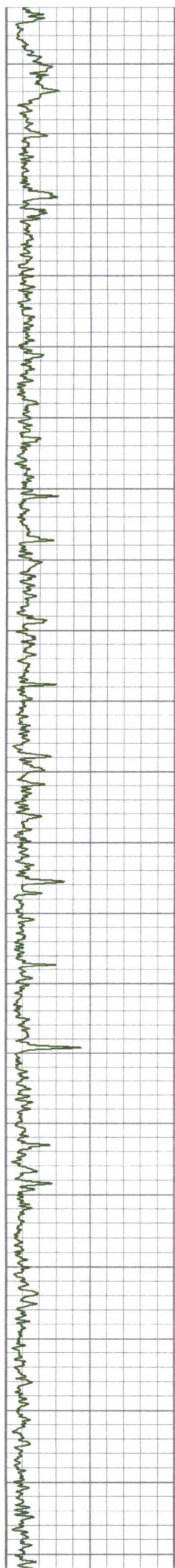




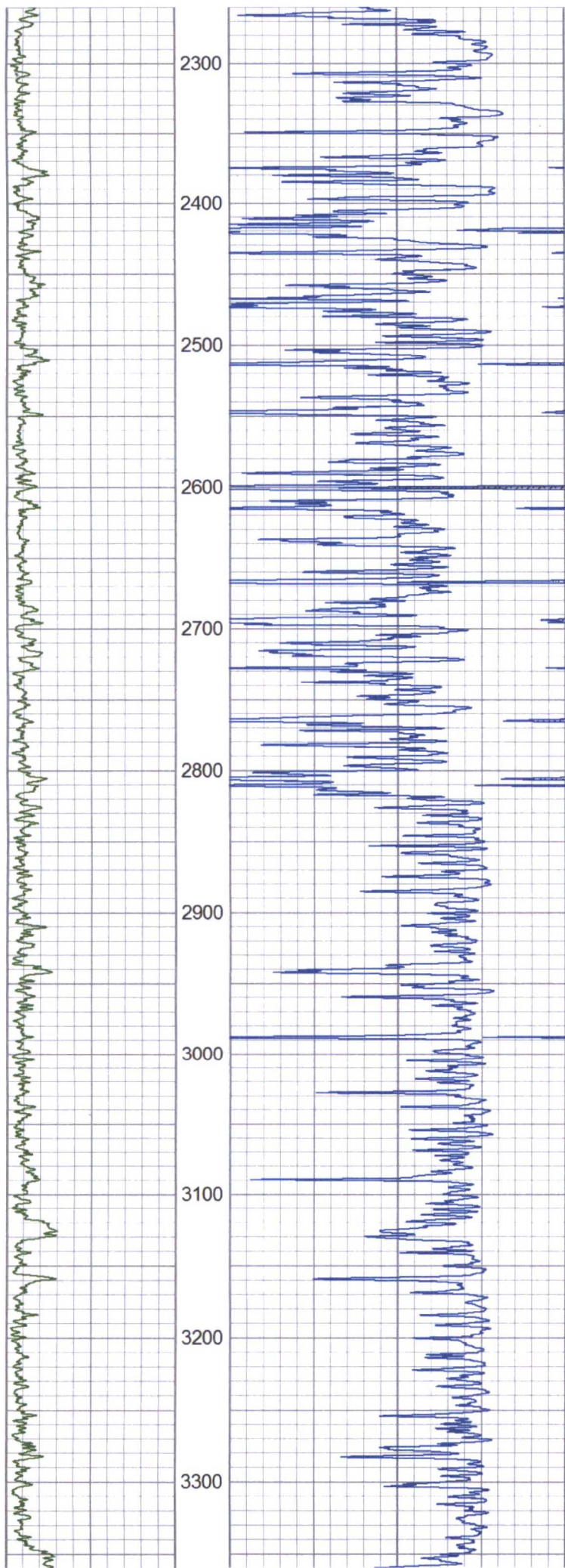




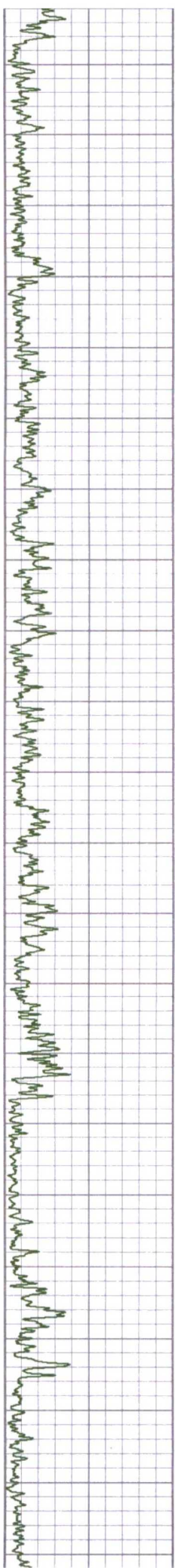












3400

3500

3600

3700

3800

3900

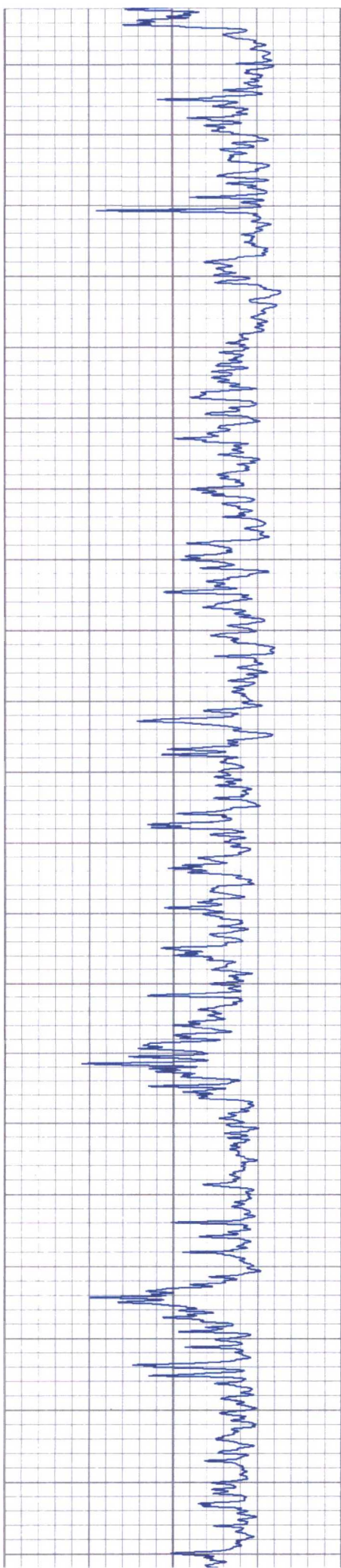
4000

4100

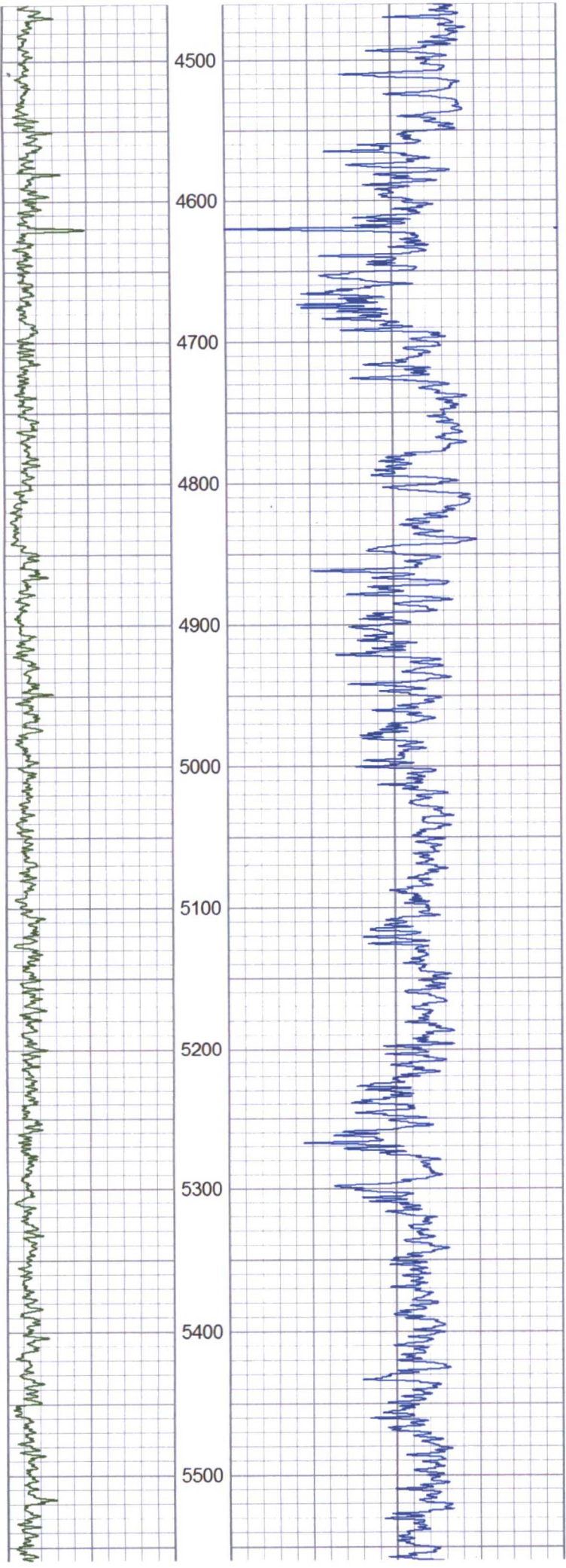
4200

4300

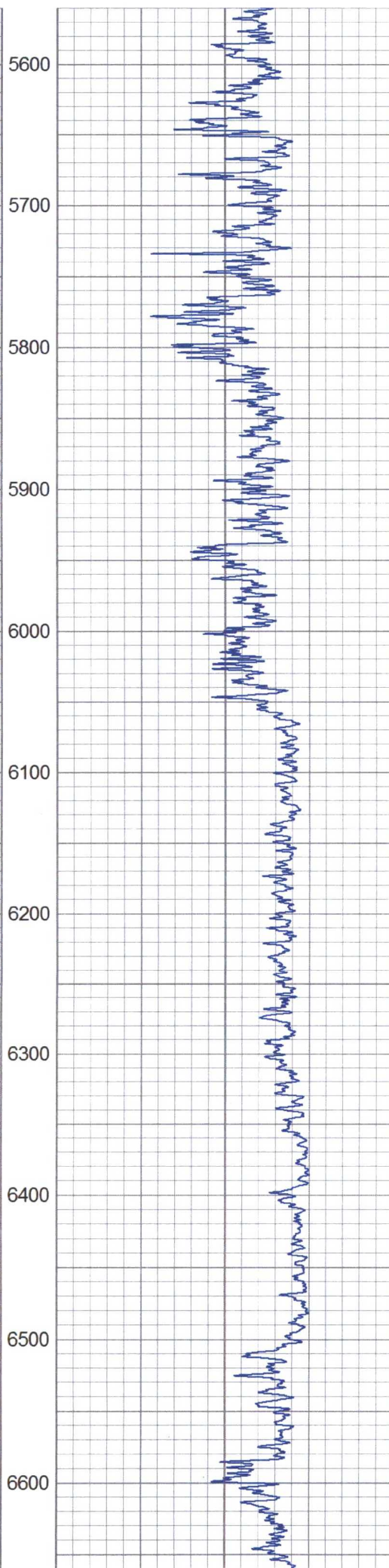
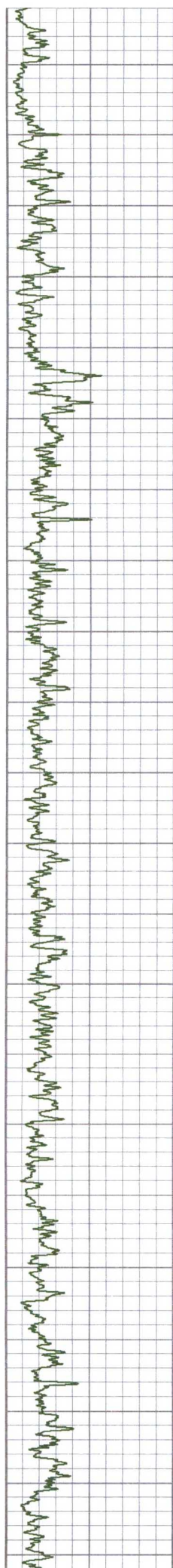
4400



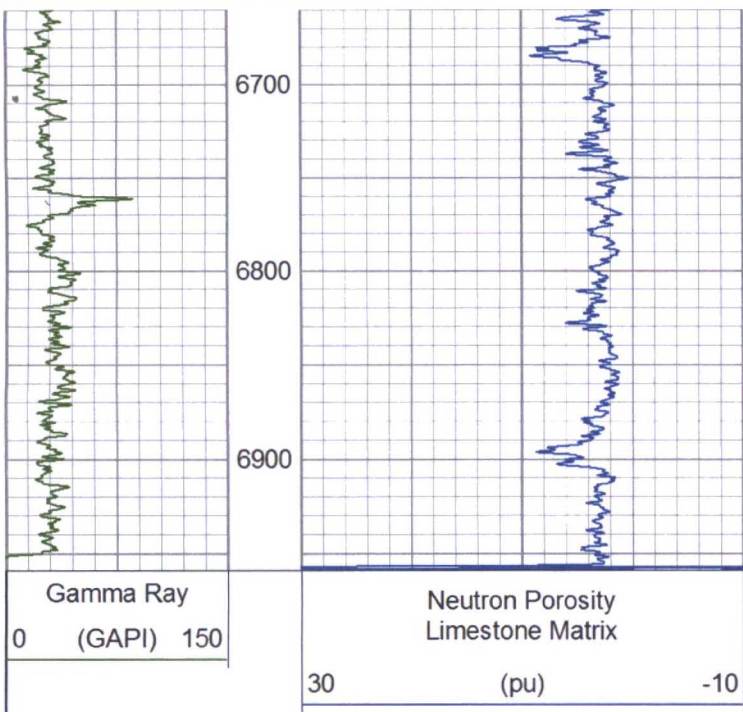












|                                                                                  |                    |
|----------------------------------------------------------------------------------|--------------------|
|  | <h1>Main Pass</h1> |
|----------------------------------------------------------------------------------|--------------------|

|         |                       |                                  |            |
|---------|-----------------------|----------------------------------|------------|
| Company | COG Operating L.L.C.  |                                  |            |
| Well    | Flat Head Fed Com 25H |                                  |            |
| Field   | Maljamar              |                                  |            |
| County  | Lea                   | State                            | New Mexico |
|         |                       | Cased Compensated<br>Neutron Log |            |