

# CEMENT BOND LOG

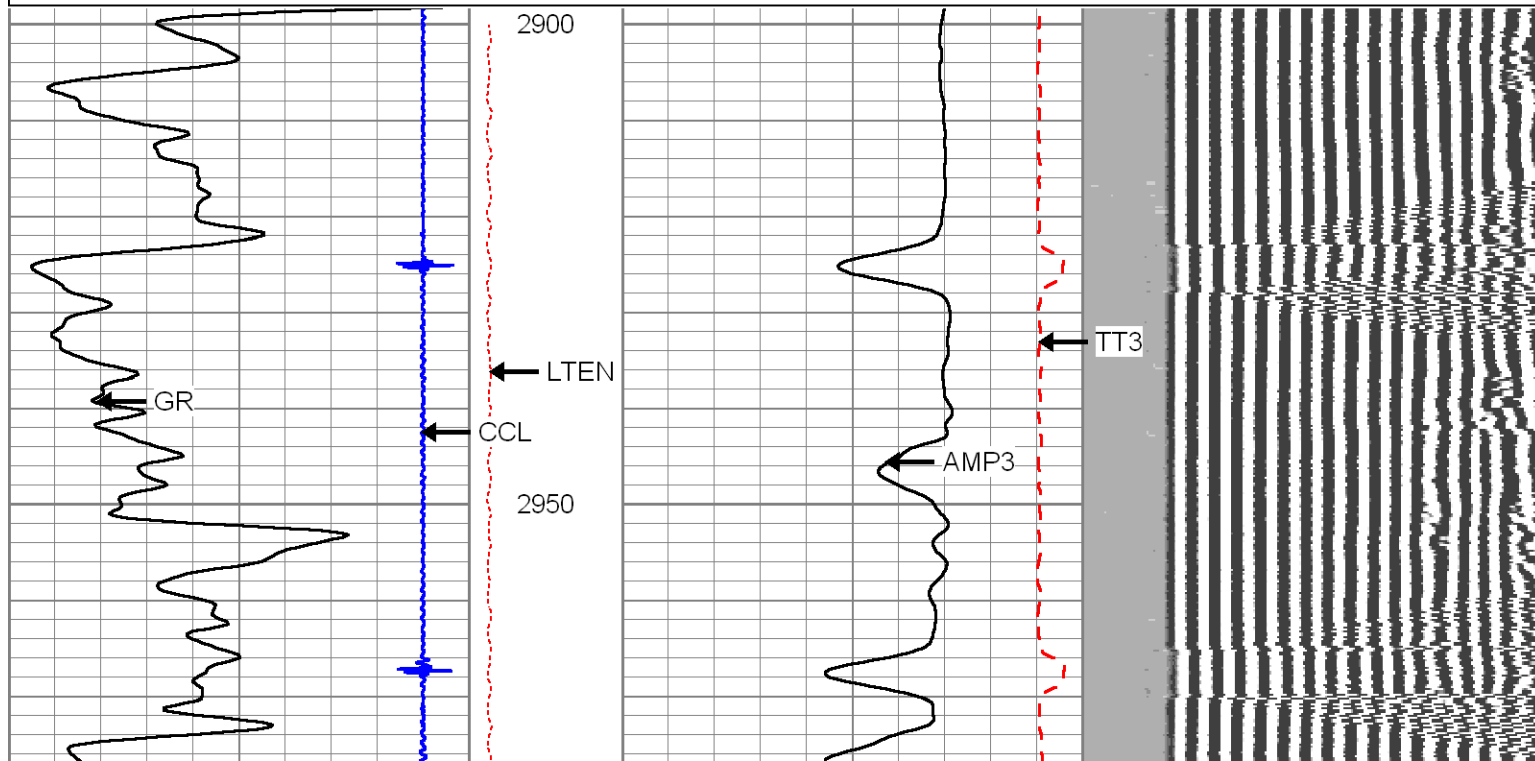
SCALE 1:240

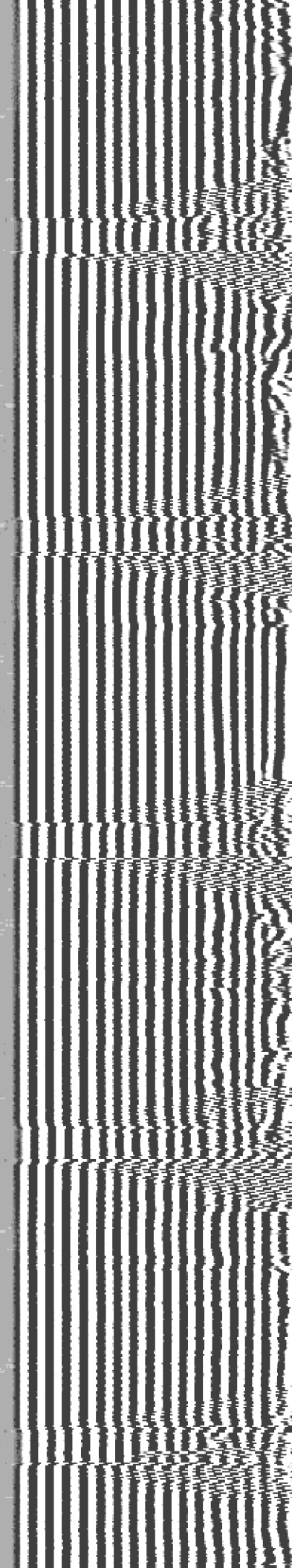
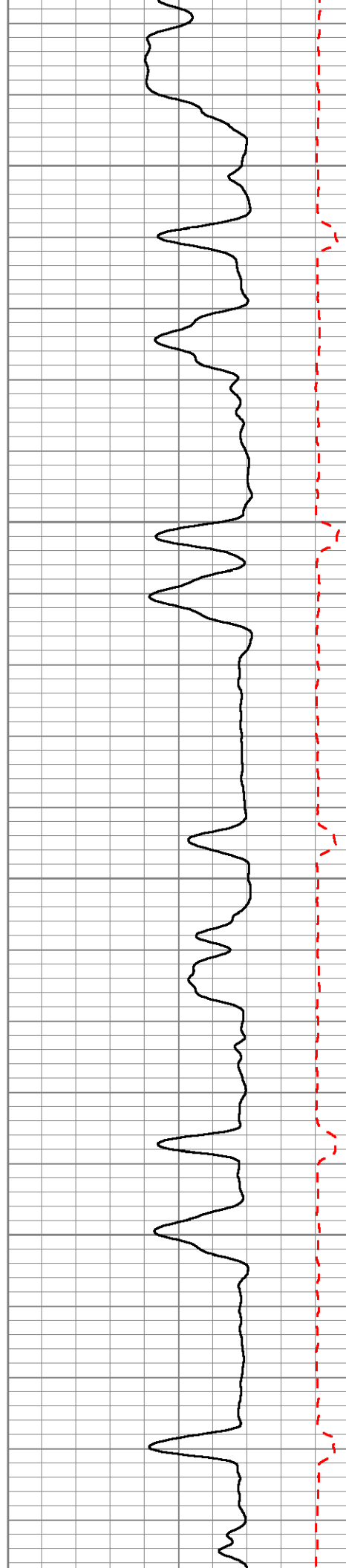
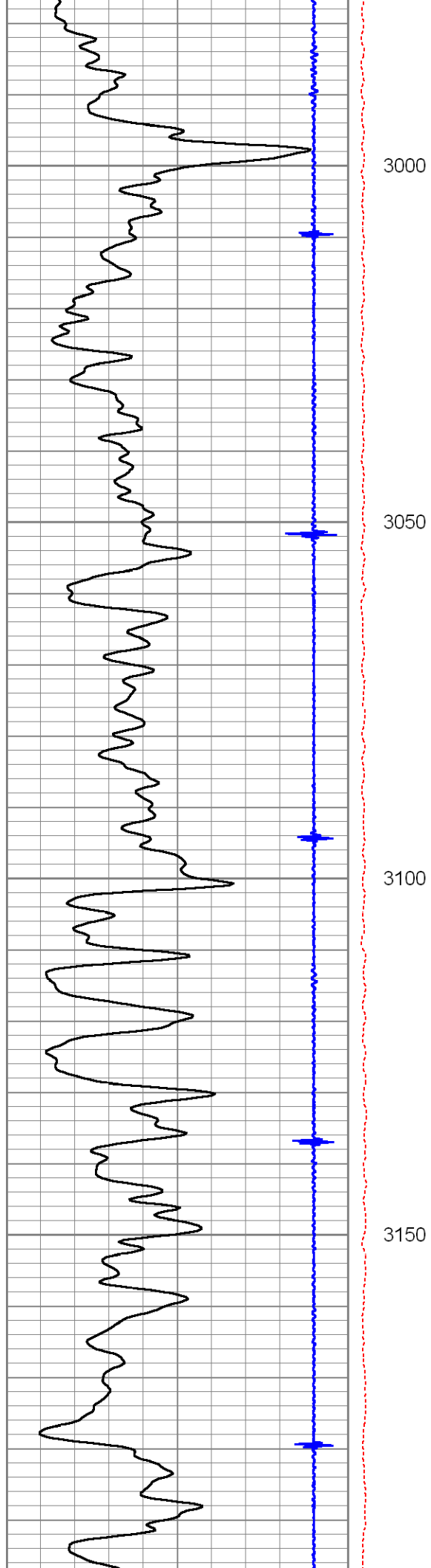
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <<< Fold Here >>>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF. |
| Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| CORRELATED TO HES RESISTIVITY LOG DATED 31 JUL 2010.<br>MARKER JOINT @ 5808' - 5822'<br>CORRECTED 7.5'.                                                                                                                                                                                                                                                                                                                                                                                                 |
| THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICE<br>ANY QUESTION OR COMMENTS PLEASE CALL 1-620-624-8123                                                                                                                                                                                                                                                                                                                                                                                                |
| YOUR HALLIBURTON CREW TODAY WAS: YOUNG.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

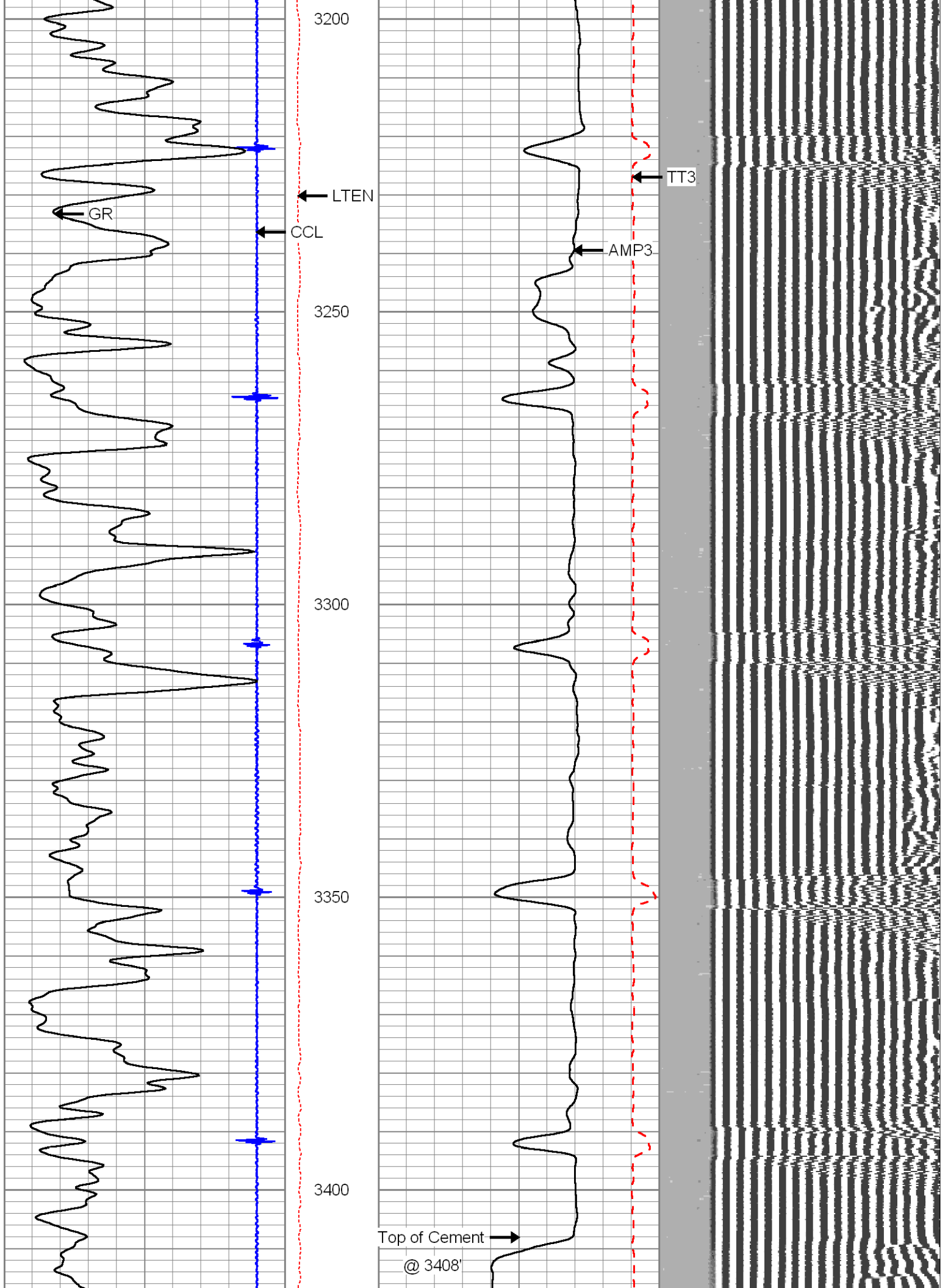
|                                                                                            |         |         |              |         |             |
|--------------------------------------------------------------------------------------------|---------|---------|--------------|---------|-------------|
| Service Ticket No.                                                                         | 7548294 | API No. | 15-081-21919 | PGM Ver | WARRIOR 7.0 |
| The Well Name, Location, Borehole Description, and / or Cementing Data Furnished by Client |         |         |              |         |             |
| EQUIPMENT DATA                                                                             |         |         |              |         |             |
| GAMMA RAY                                                                                  |         | CBL     |              |         |             |
| Run No.                                                                                    | ONE     | Run No. | ONE          | Run No. |             |

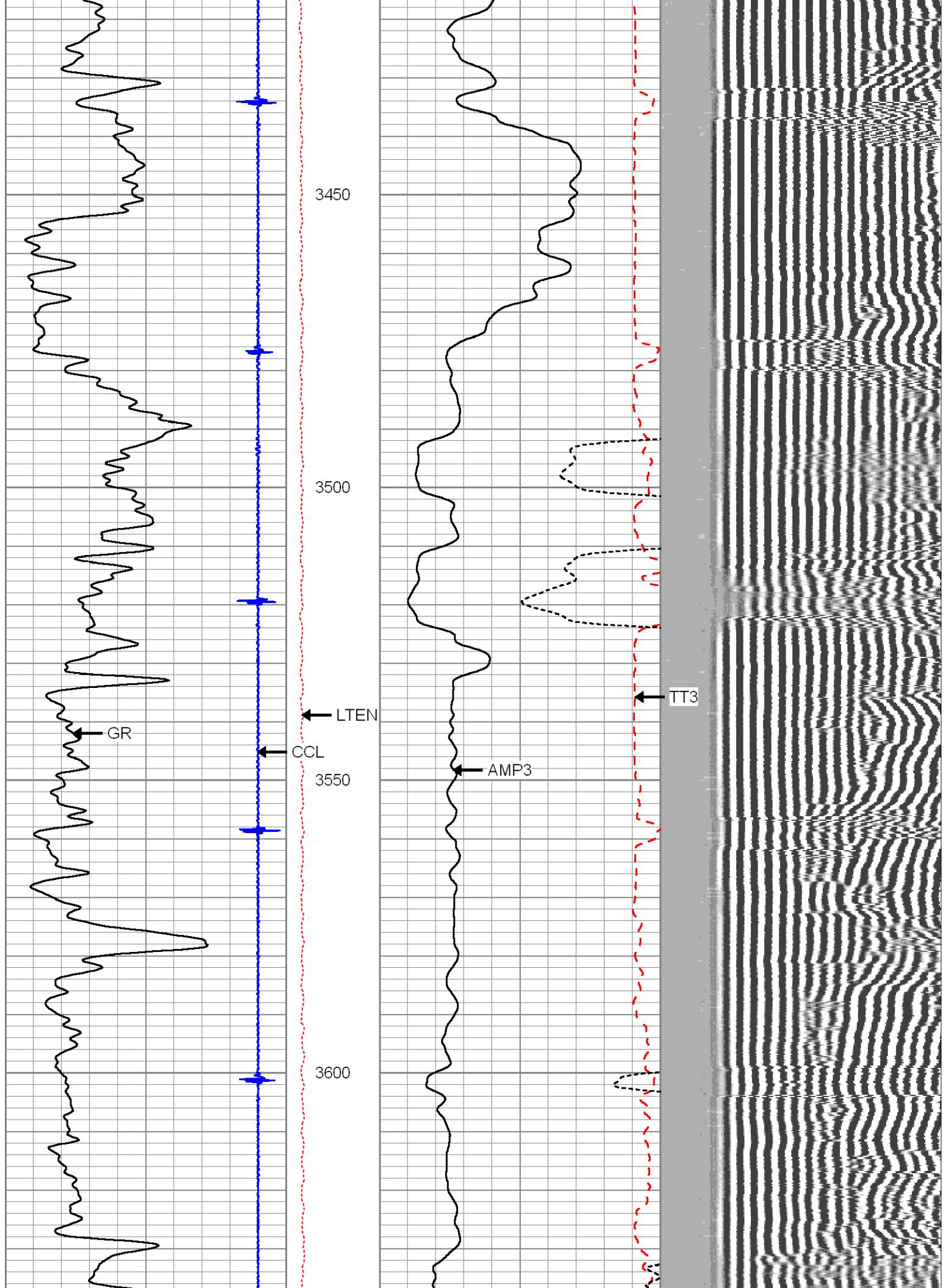
|                         |           |            |           |            |                      |            |             |
|-------------------------|-----------|------------|-----------|------------|----------------------|------------|-------------|
| Run No.                 | ONE       | Run No.    | ONE       | Run No.    |                      | Run No.    |             |
| Serial No.              | 060633    | Serial No. | 070714    | Serial No. |                      | Serial No. |             |
| Model No.               | PROBE     | Model No.  | PROBE     | Model No.  |                      | Model No.  |             |
| Diameter                | 2.75      | Diameter   | 2.75      | Diameter   |                      | Diameter   |             |
| LOGGING DATA            |           |            |           |            |                      |            |             |
| General Data            |           |            |           |            |                      |            |             |
| Pass                    | Depths    |            | Well Head | Speed      | Logging Run Comments |            |             |
| No.                     | From      | To         | Pressure  | Ft/Min     |                      |            |             |
| ONE                     | 5987'     | 2908'      | 0         | 45         | MAIN PASS            |            |             |
|                         |           |            |           |            |                      |            |             |
|                         | GAMMA RAY |            | AMPLITUDE |            | MSG                  |            | TRAVEL TIME |
| Pass                    | Scale     |            | Scale     |            | Scale                |            | Scale       |
| No.                     | L         | R          | L         | R          | L                    | R          | L L         |
| ONE                     | 0         | 150        | 0         | 100        | 200                  | 1200       | 177 277     |
|                         | 150       | 300        | 0         | 20         |                      |            |             |
| DIRECTIONAL INFORMATION |           |            |           |            |                      |            |             |
| Maximum Deviation       |           | deg. @     |           | KOP        |                      |            |             |
|                         |           |            |           |            |                      |            |             |
|                         |           |            |           |            |                      |            |             |

|                                                                                        |                |                                                     |            |     |                    |     |              |
|----------------------------------------------------------------------------------------|----------------|-----------------------------------------------------|------------|-----|--------------------|-----|--------------|
| <div> <div>HALLIBURTON</div> <div>MAIN LOG SECTION</div> <div>SCALE 1:240</div> </div> |                |                                                     |            |     |                    |     |              |
| Database File:                                                                         |                | oxy_baker_c1_cbl.db                                 |            |     |                    |     |              |
| Dataset Pathname:                                                                      |                | pass3                                               |            |     |                    |     |              |
| Presentation Format:                                                                   |                | cbl_pn                                              |            |     |                    |     |              |
| Dataset Creation:                                                                      |                | Sat Aug 07 16:01:16 2010 by Log Halliburton Casedho |            |     |                    |     |              |
| Charted by:                                                                            |                | Depth in Feet scaled 1:240                          |            |     |                    |     |              |
| 9                                                                                      | Collar Locator | -1                                                  | LTEN       | 0   | Amplitude (mV)     | 100 | 200 MSG 1200 |
| 0                                                                                      | GR (GAPI)      | 150                                                 | 0 (lb'1000 | 177 | Travel Time (usec) | 277 |              |
| 150                                                                                    | gr (GAPI)      | 300                                                 |            | 0   | AAMP (mV)          | 20  |              |

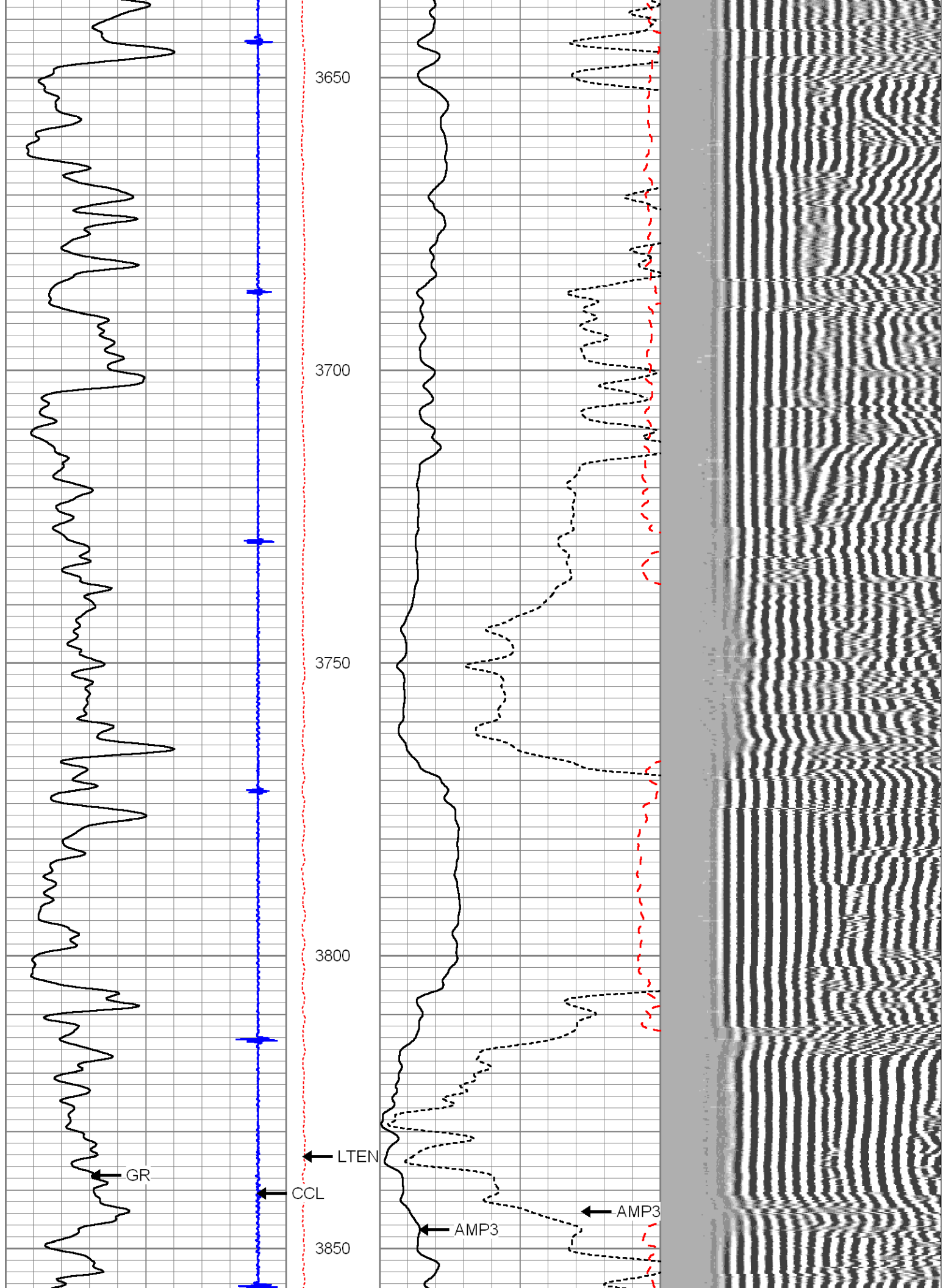


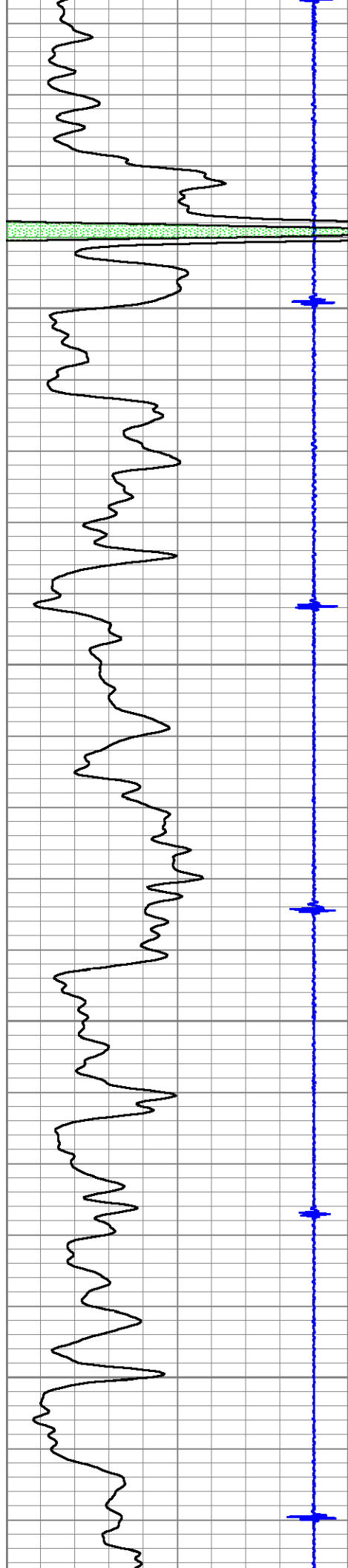










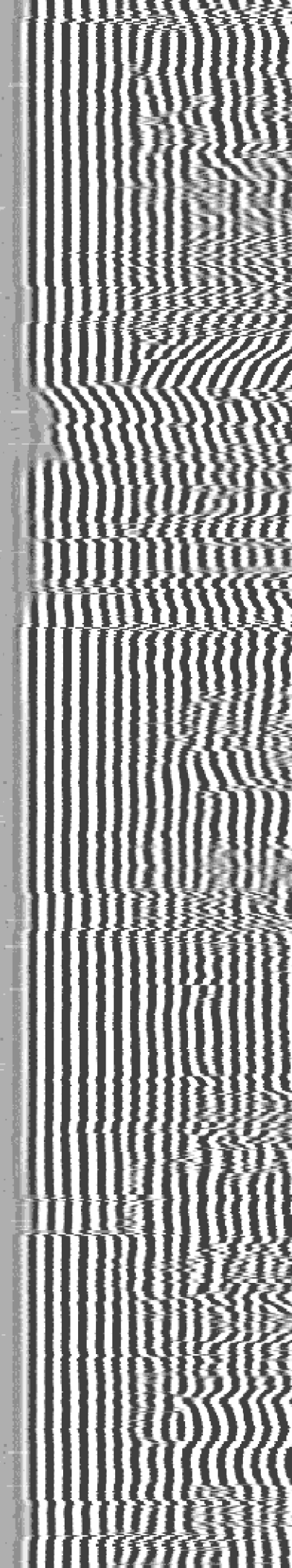
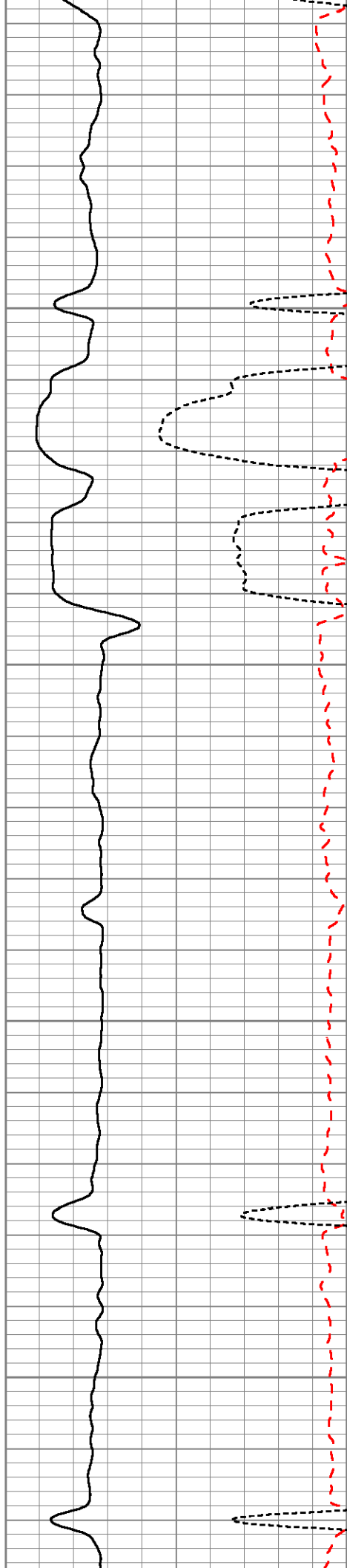


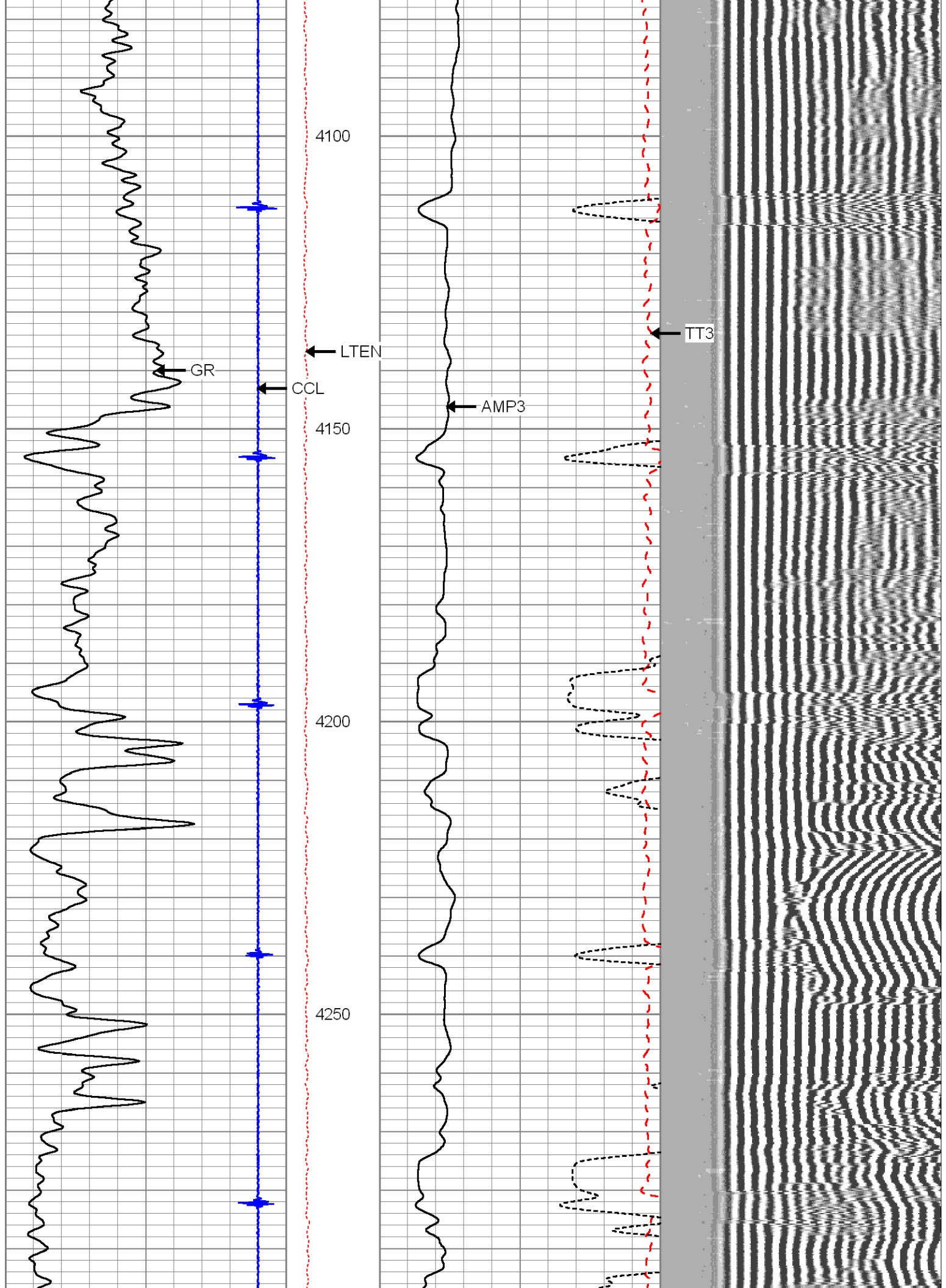
3900

3950

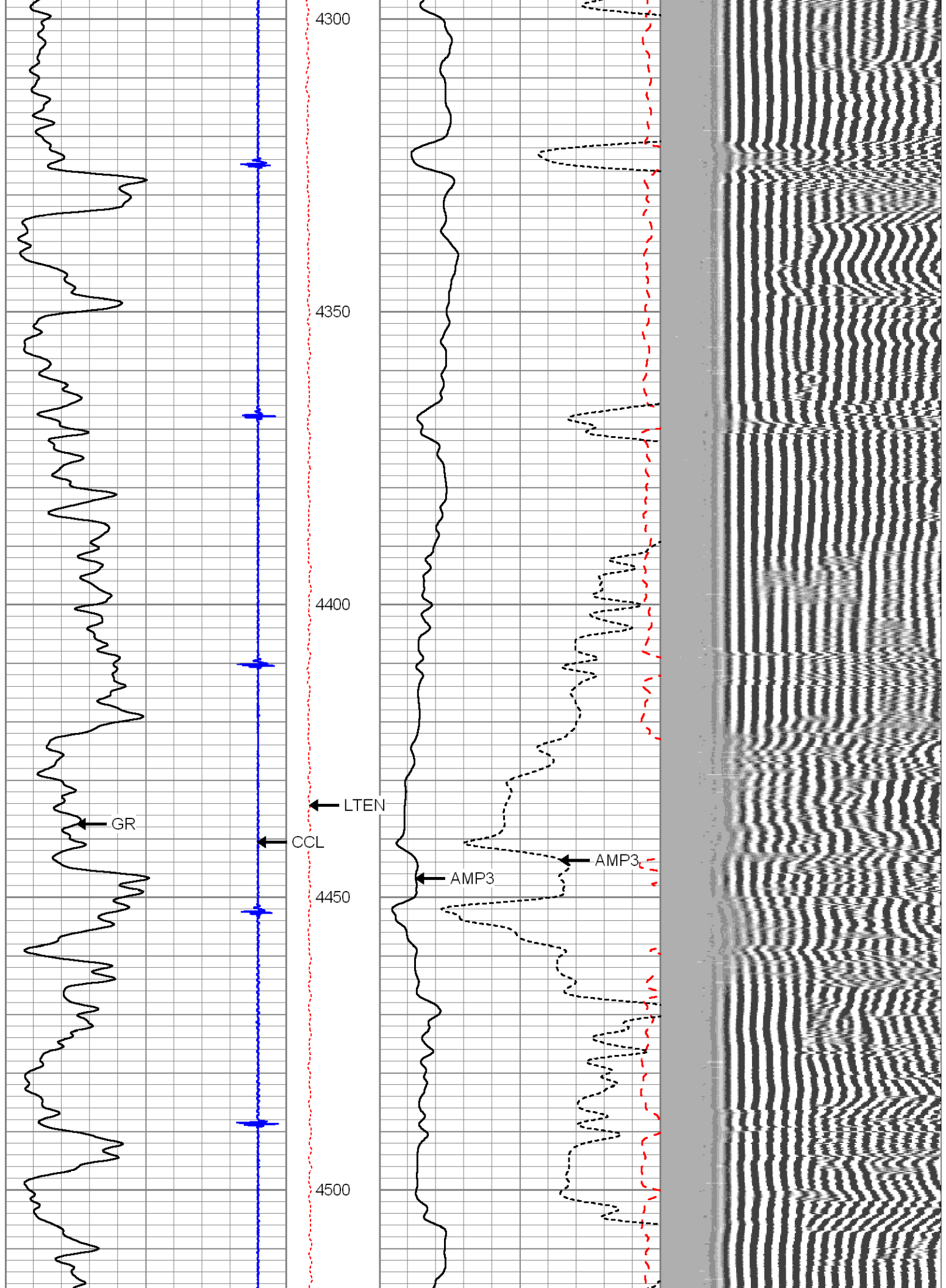
4000

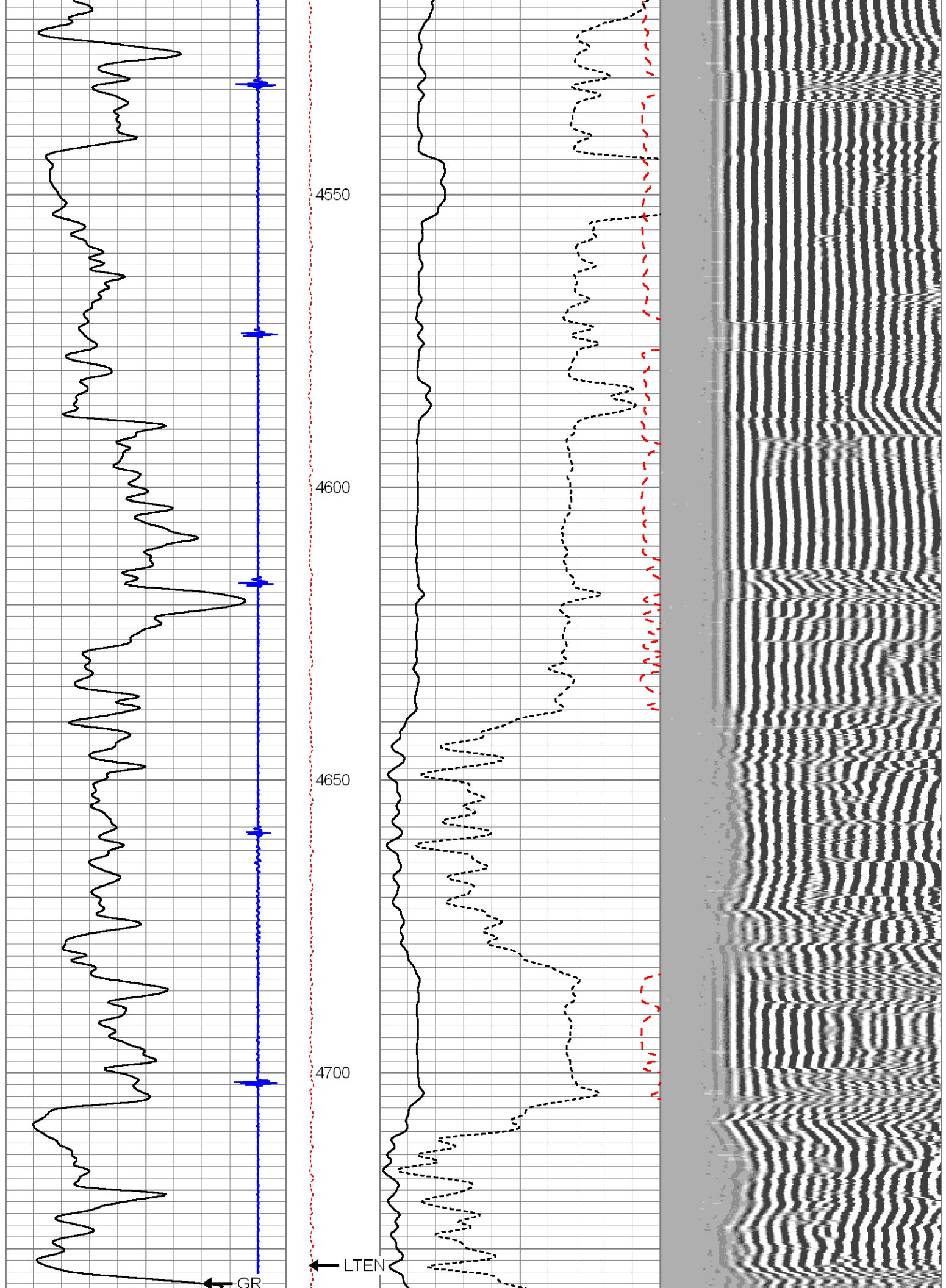
4050

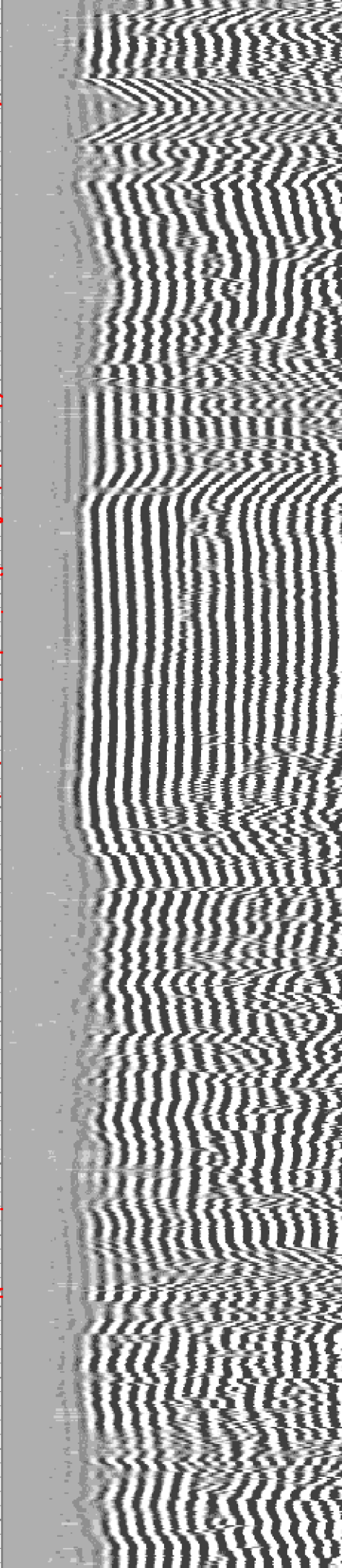
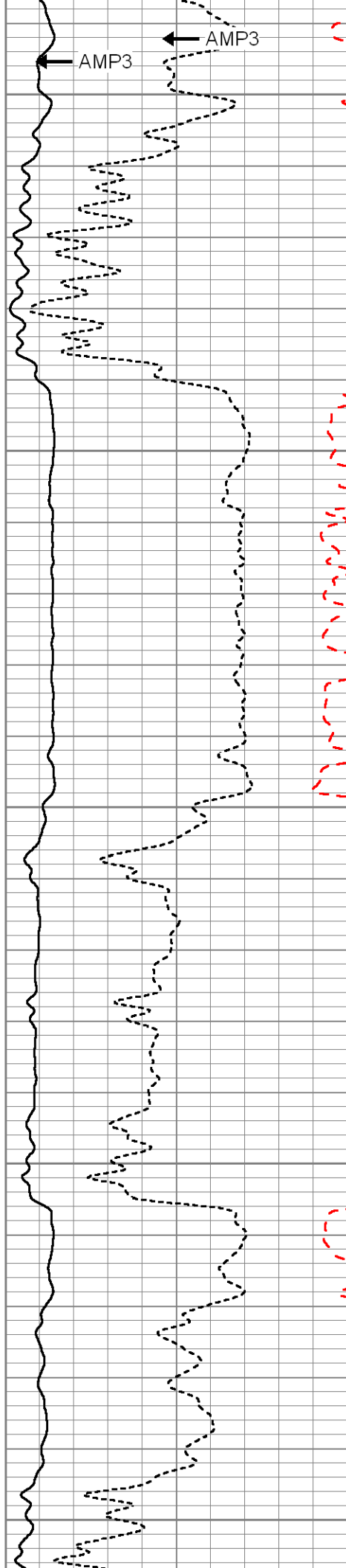
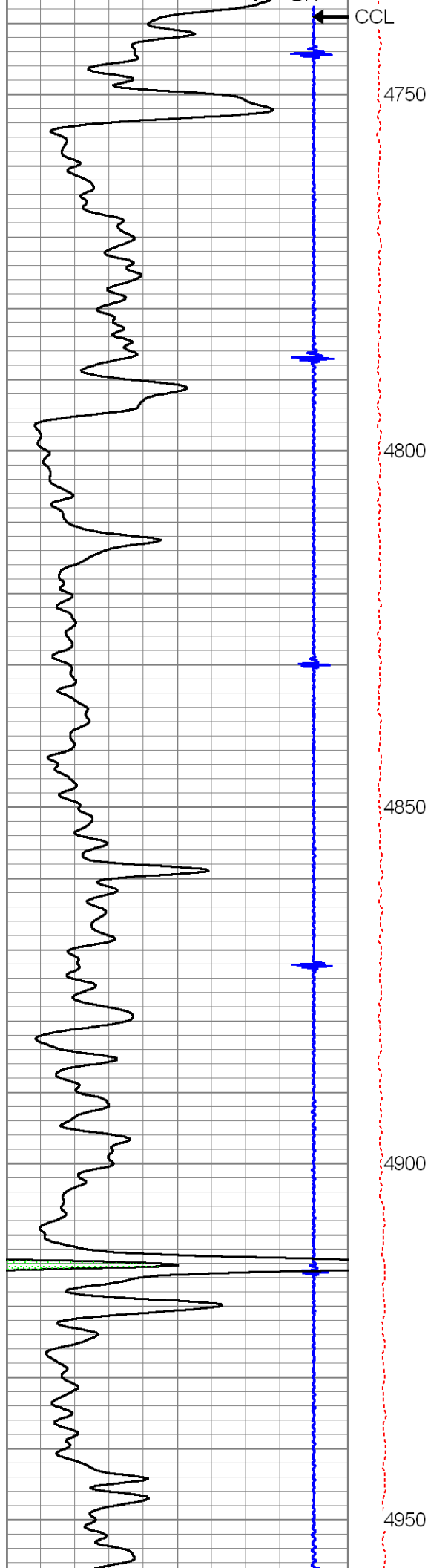


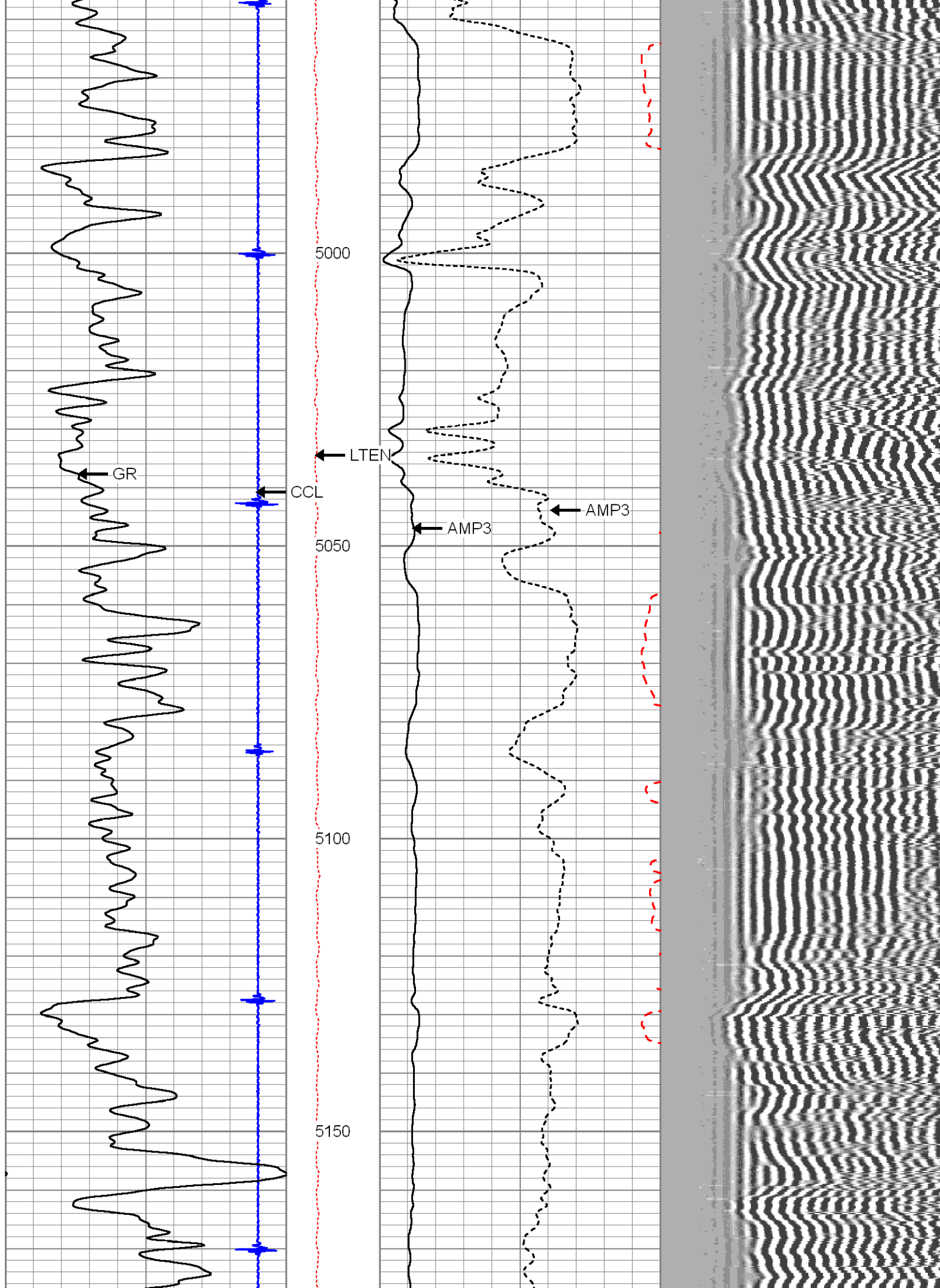




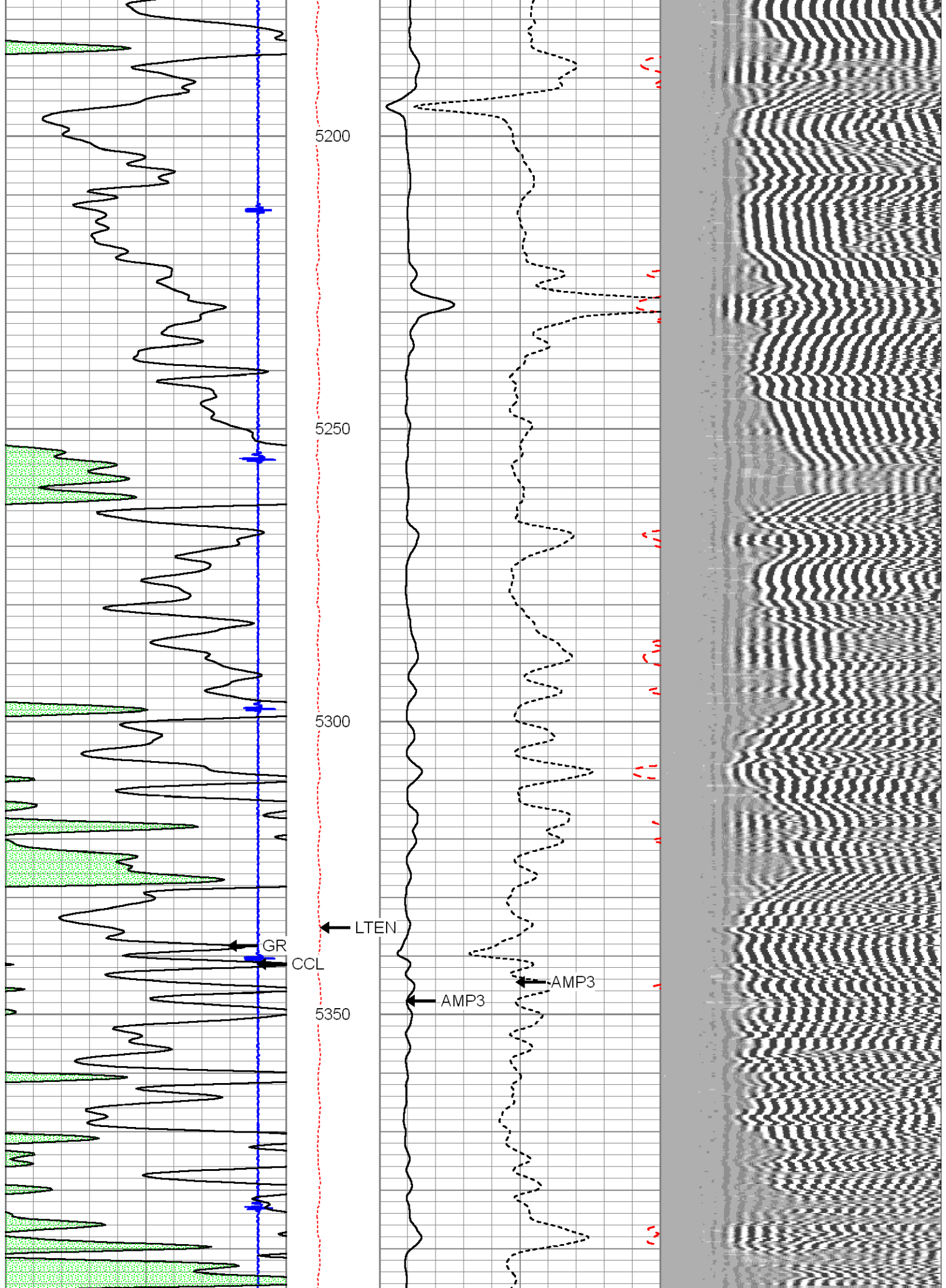








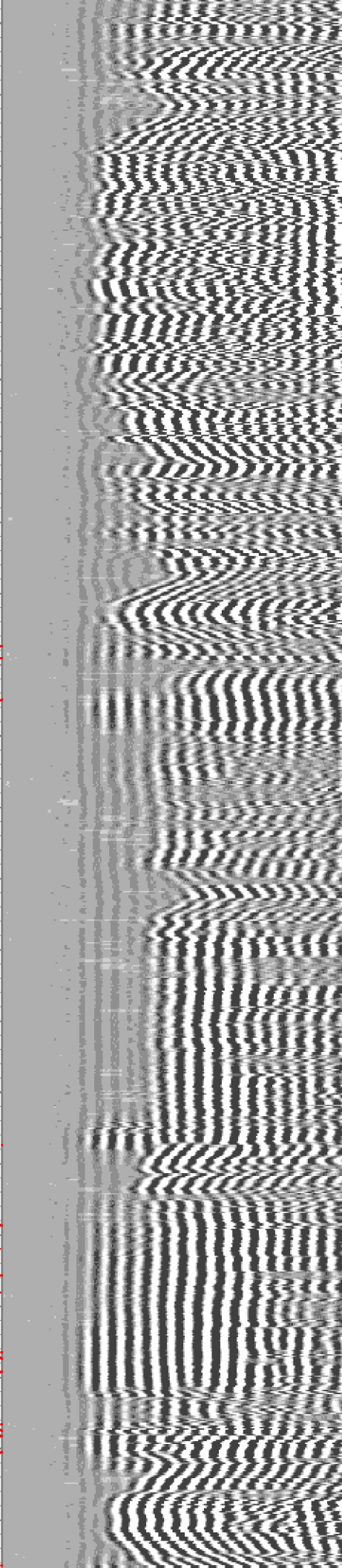
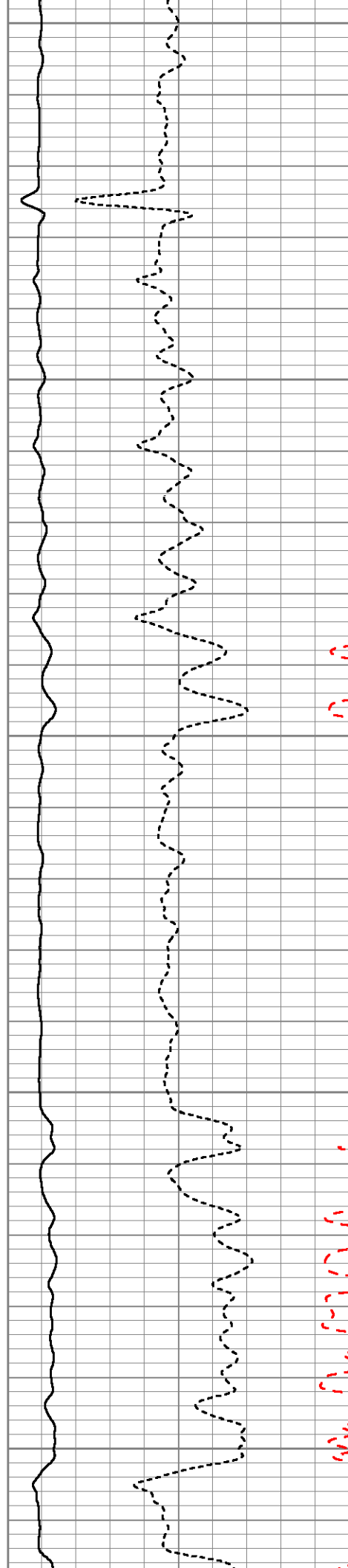


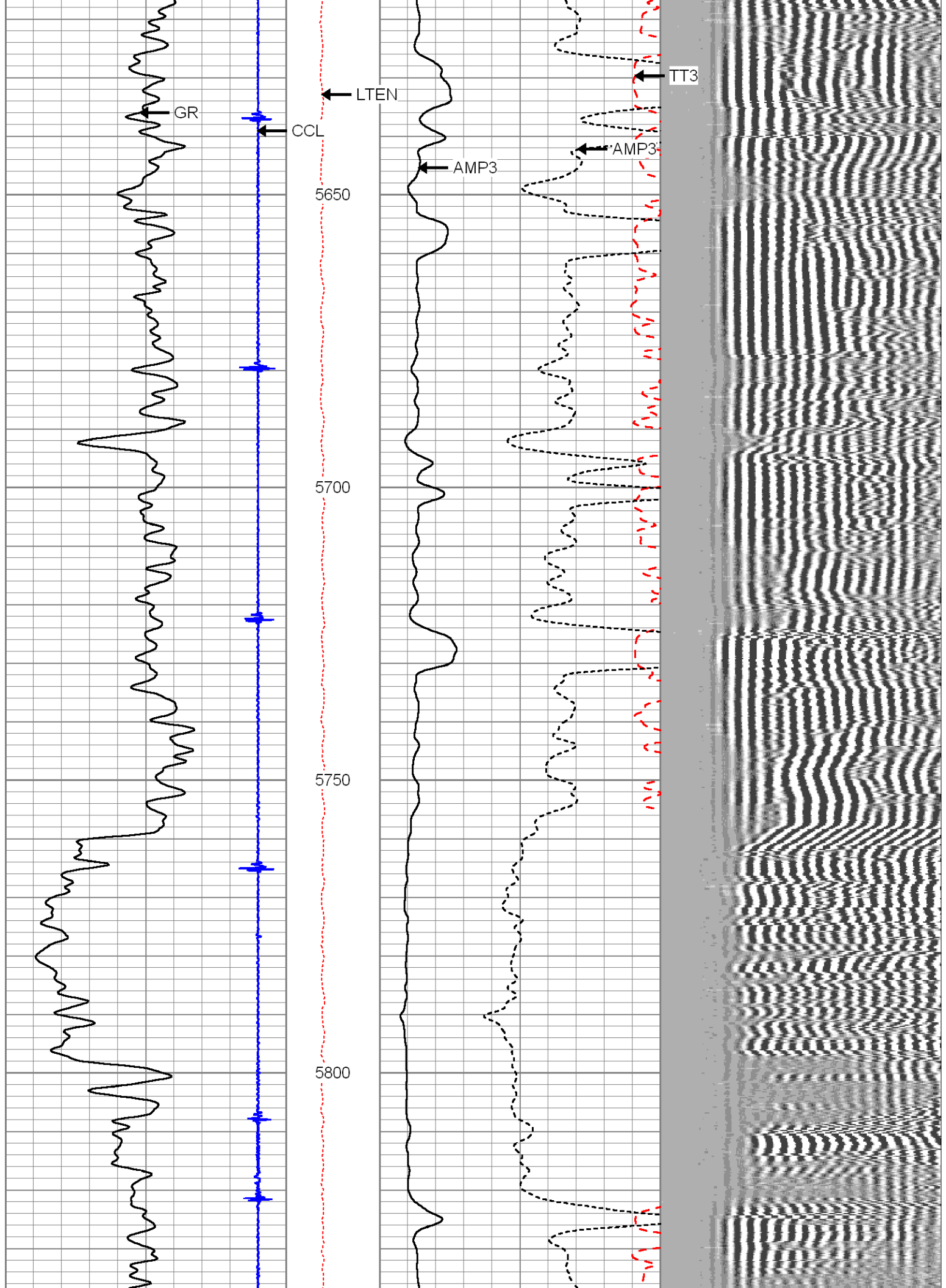


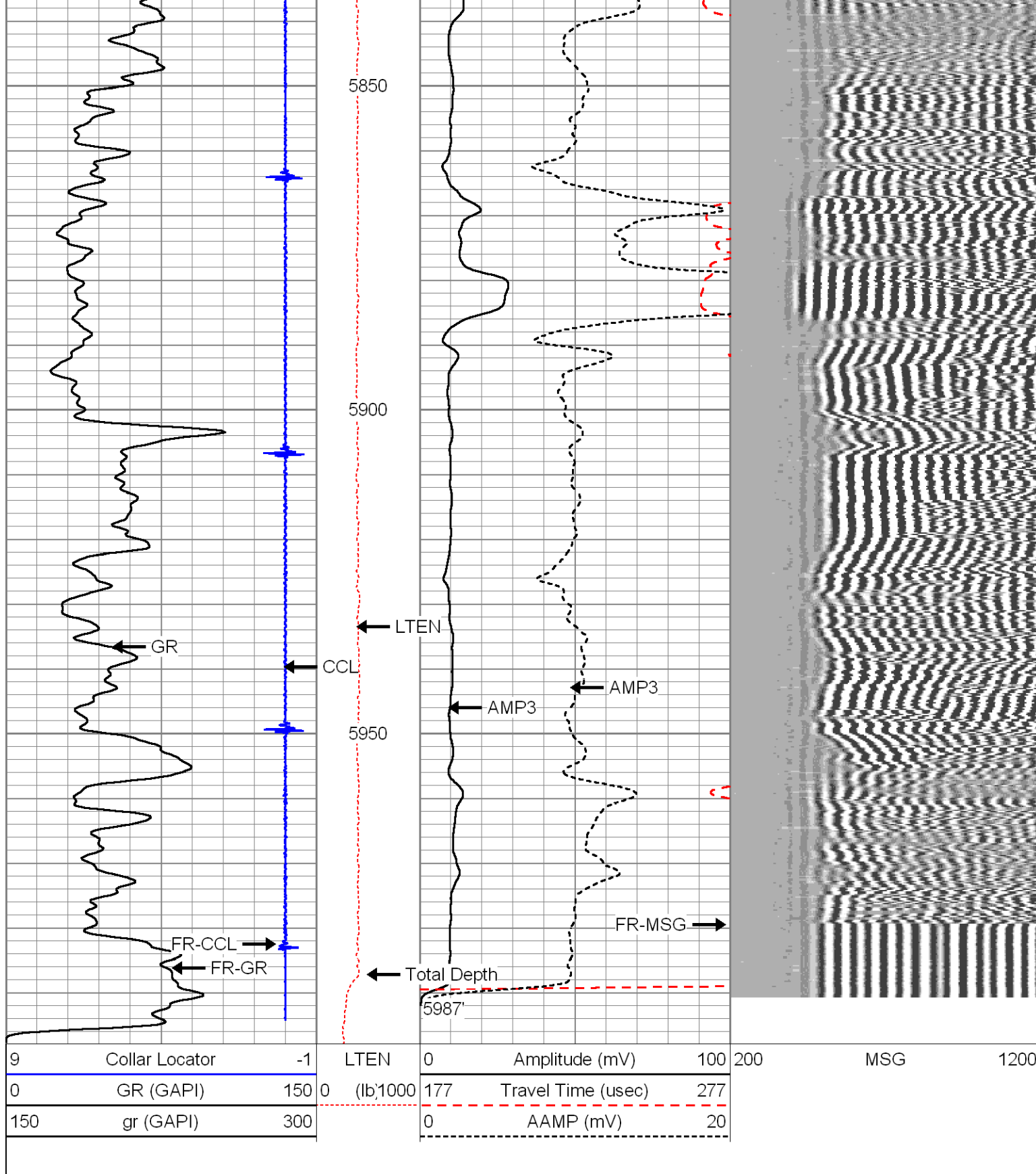




5400  
5450  
5500  
5550  
5600





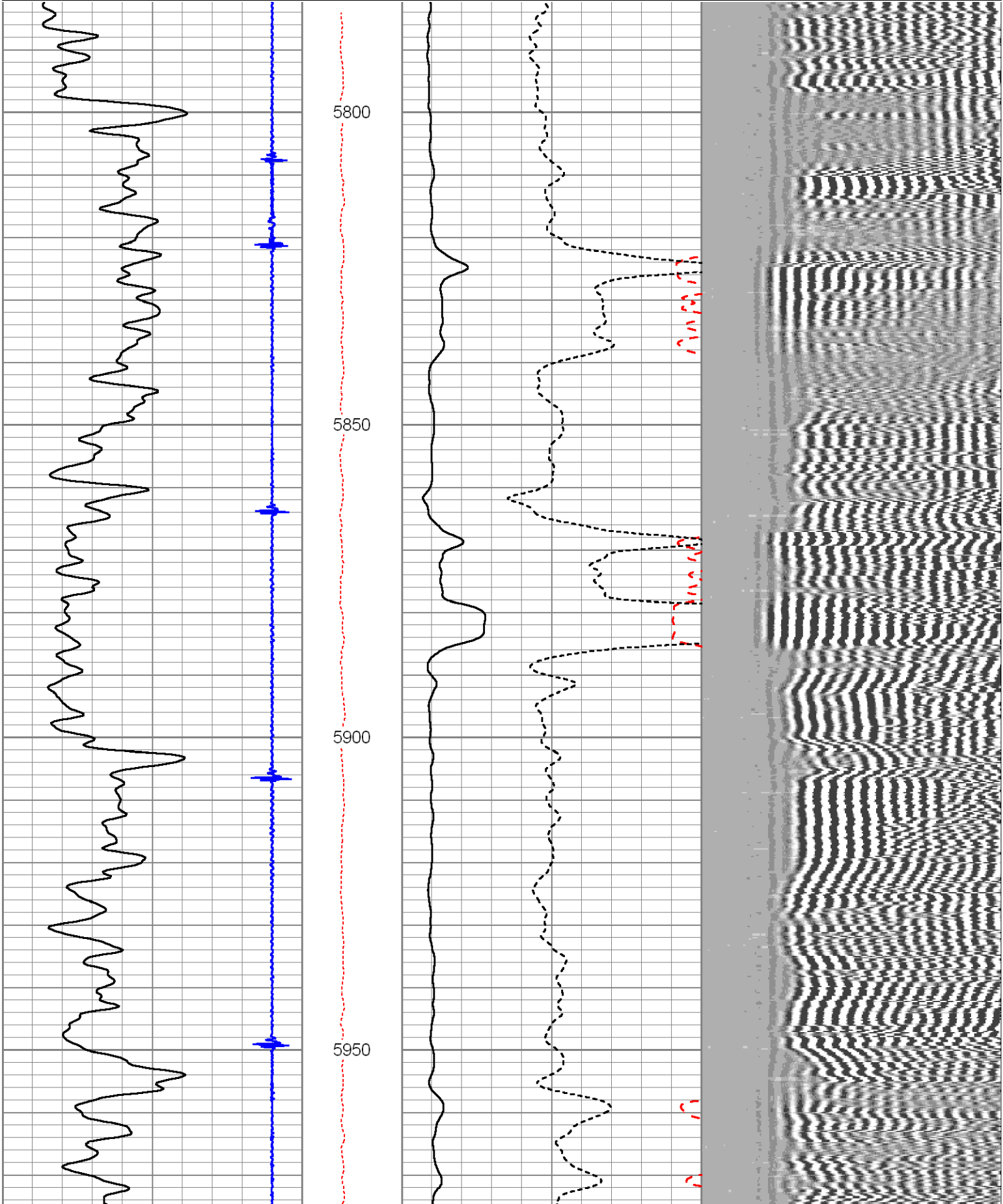


## REPEAT SECTION

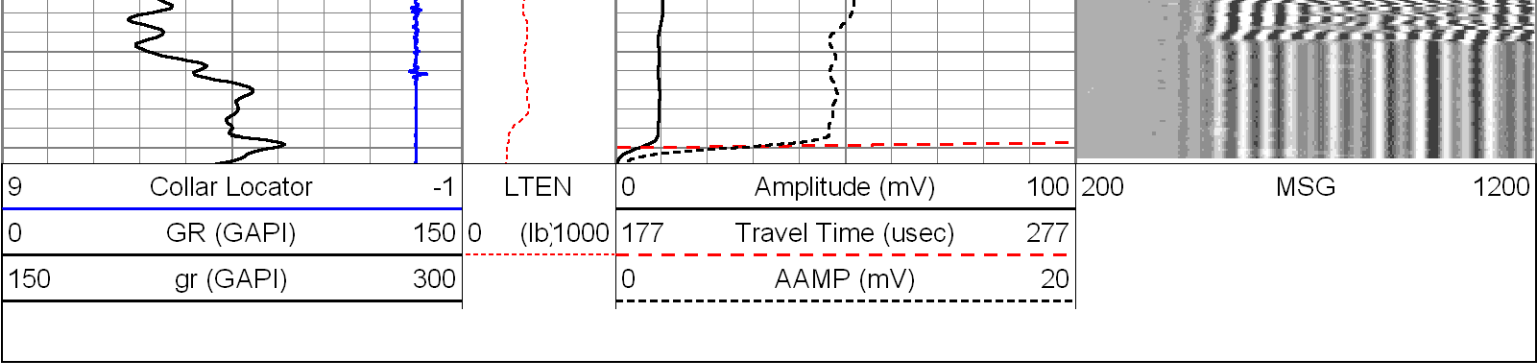
**HALLIBURTON**

Database File: oxy\_baker\_c1\_cbl.db  
 Dataset Pathname: pass2  
 Presentation Format: cbl\_pn  
 Dataset Creation: Sat Aug 07 15:55:48 2010 by Log Halliburton Casedho

|     |                |     |             |     |                    |     |     |     |      |
|-----|----------------|-----|-------------|-----|--------------------|-----|-----|-----|------|
| 9   | Collar Locator | -1  | LTEN        | 0   | Amplitude (mV)     | 100 | 200 | MSG | 1200 |
| 0   | GR (GAPI)      | 150 | 0 (lb/1000) | 177 | Travel Time (usec) | 277 |     |     |      |
| 150 | gr (GAPI)      | 300 |             | 0   | AAMP (mV)          | 20  |     |     |      |



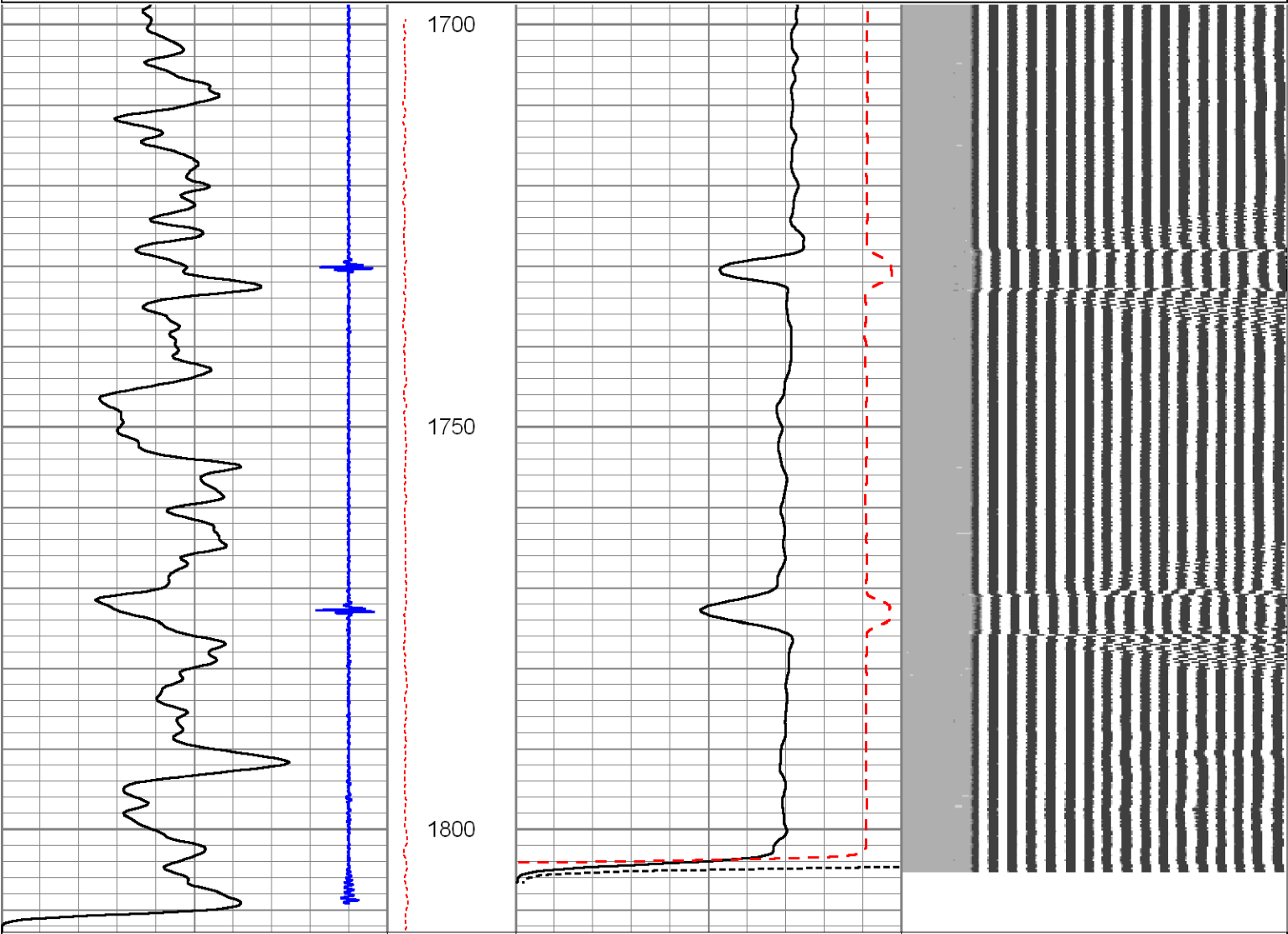
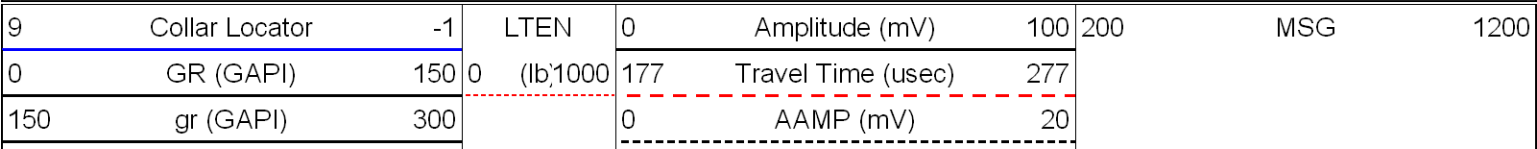




HALLIBURTON

FREE PIPE SECTION

Database File: oxy\_baker\_c1\_cbl.db  
Dataset Pathname: pass1  
Presentation Format: cbl\_pn  
Dataset Creation: Sat Aug 07 15:36:09 2010 by Log Halliburton Casedho  
Charted by: Depth in Feet scaled 1:240





|     |                |     |          |     |                    |     |     |     |      |
|-----|----------------|-----|----------|-----|--------------------|-----|-----|-----|------|
| 9   | Collar Locator | -1  | LTEN     | 0   | Amplitude (mV)     | 100 | 200 | MSG | 1200 |
| 0   | GR (GAPI)      | 150 | (lb)1000 | 177 | Travel Time (usec) | 277 |     |     |      |
| 150 | gr (GAPI)      | 300 |          | 0   | AAMP (mV)          | 20  |     |     |      |
|     |                |     |          |     |                    |     |     |     |      |

| Calibration Report           |             |                                                     |        |       |          |  |
|------------------------------|-------------|-----------------------------------------------------|--------|-------|----------|--|
| Database File:               |             | oxy_baker_c1_cbl.db                                 |        |       |          |  |
| Dataset Pathname:            |             | pass3                                               |        |       |          |  |
| Dataset Creation:            |             | Sat Aug 07 16:01:16 2010 by Log Halliburton Casedho |        |       |          |  |
| Gamma Ray Calibration Report |             |                                                     |        |       |          |  |
| Type / Serial:               |             | probe275dig / 070633                                |        |       |          |  |
| SHOP CALIBRATION             |             | Sat Aug 07 15:20:42 2010                            |        |       |          |  |
|                              | Counts/Sec. | Gain                                                | Offset | Jig   | Units    |  |
| Background                   | 55.8        |                                                     |        |       | cps      |  |
| Calibrator                   | 369.6       |                                                     |        |       | cps      |  |
|                              |             | 0.8572                                              |        |       | GAPI/cps |  |
| PRIMARY VERIFICATION         |             | Sat Aug 07 15:23:16 2010                            |        |       |          |  |
| Background                   | 46.5        |                                                     |        |       | cps      |  |
| Calibrator                   | 316.8       |                                                     |        |       | cps      |  |
| Difference                   |             |                                                     |        | 270.3 | GAPI     |  |
| BEFORE SURVEY VERIFICATION   |             |                                                     |        |       |          |  |
| Background                   | 0.0         |                                                     |        |       | cps      |  |
| Calibrator                   | 0.0         |                                                     |        |       | cps      |  |
| Difference                   |             |                                                     |        | 0.0   | GAPI     |  |
| AFTER SURVEY VERIFICATION    |             |                                                     |        |       |          |  |
| Background                   | 0.0         |                                                     |        |       | cps      |  |
| Calibrator                   | 0.0         |                                                     |        |       | cps      |  |
| Difference                   |             |                                                     |        | 0.0   | GAPI     |  |

| Cement Bond Log Calibration Report |  |                          |  |            |             |            |    |  |  |
|------------------------------------|--|--------------------------|--|------------|-------------|------------|----|--|--|
| Serial Number:                     |  | 060714                   |  |            |             |            |    |  |  |
| Tool Model:                        |  | Probe275Digital          |  |            |             |            |    |  |  |
| Performed:                         |  | Sat Aug 07 15:35:39 2010 |  |            |             |            |    |  |  |
| Depth:                             |  | 1747.91                  |  | ft         |             |            |    |  |  |
| Casing Diameter:                   |  | 5.5                      |  | in         |             |            |    |  |  |
|                                    |  |                          |  | 3' Spacing |             | 5' Spacing |    |  |  |
| Signal Zero:                       |  | 0                        |  |            | 0           |            | mV |  |  |
| Calibrated Amplitude:              |  | 71.921                   |  |            | 71.921      |            | mV |  |  |
| Reading at Signal Zero:            |  | -0.00219727              |  |            | -0.00129395 |            | V  |  |  |
| Reading in Free Pipe:              |  | 0.383838                 |  |            | 0.438916    |            | V  |  |  |
| Gain:                              |  | 186.307                  |  |            | 163.379     |            |    |  |  |
| Offset:                            |  | 0.409366                 |  |            | 0.211403    |            |    |  |  |

Log Variables

Database:D:\warrior\_data\oxy\_baker\_c1\_cbl.db

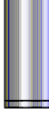
Dataset: field/well/run1/pass3

Top - Bottom

|     |         |         |         |        |       |        |         |
|-----|---------|---------|---------|--------|-------|--------|---------|
| PPT | MAXAMPL | MINAMPL | MINATTN | CASEOD | PERFS | TDEPTH | BOTTEMP |
| in  | mV      | mV      | db/ft   | in     |       | ft     | degF    |

|                        |          |         |              |           |  |            |             |
|------------------------|----------|---------|--------------|-----------|--|------------|-------------|
| usec<br>0              | mv<br>72 | mv<br>0 | db/ft<br>0.8 | in<br>5.5 |  | ft<br>5987 | deg-<br>127 |
| BITSIZE<br>in<br>7.875 |          |         |              |           |  |            |             |

| Sensor | Offset (ft) | Schematic | Description                                                                            | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-----------|----------------------------------------------------------------------------------------|----------|---------|---------|
| STNDCH | 14.41       |           | STND_CH<br>1.4375 IN CABLE HEAD                                                        | 0.92     | 1.44    | 1.00    |
| WVF3   | 9.00        |           | CBL-Probe275Digital (060714)<br>Digital 3' 5' CBL Move voltage to +/- 150 for cal mode | 8.75     | 2.75    | 92.00   |
| WVF5   | 8.00        |           |                                                                                        |          |         |         |
| GR     | 4.75        |           |                                                                                        |          |         |         |
| CCL    | 3.92        |           |                                                                                        |          |         |         |
| GR     | 2.54        |           | GR-Probe275dig (070633)<br>Probe Digital Gamma CCL                                     | 4.75     | 2.75    | 57.00   |

|                                                                                                                          |      |                                                                                  |                                                                                 |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--|--|--|
| LLMTEN                                                                                                                   | 0.00 |  |  |  |  |  |
| Dataset: oxy_baker_c1_cbl.db: field/well/run1/pass3<br>Total Length: 14.41 ft<br>Total Weight: 150.00 lb<br>O.D. 2.75 in |      |                                                                                  |                                                                                 |  |  |  |

|                    |                                   |  |  |       |        |
|--------------------|-----------------------------------|--|--|-------|--------|
| Company            | OXY USA INC.                      |  |  |       |        |
| Well               | BAKER C-1                         |  |  |       |        |
| Field              | KINSLER                           |  |  |       |        |
| County             | MORTON                            |  |  | State | KANSAS |
| <b>HALLIBURTON</b> | CEMENT BOND<br>LOG<br>SCALE 1:240 |  |  |       |        |