

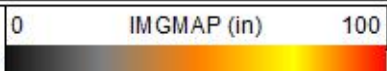




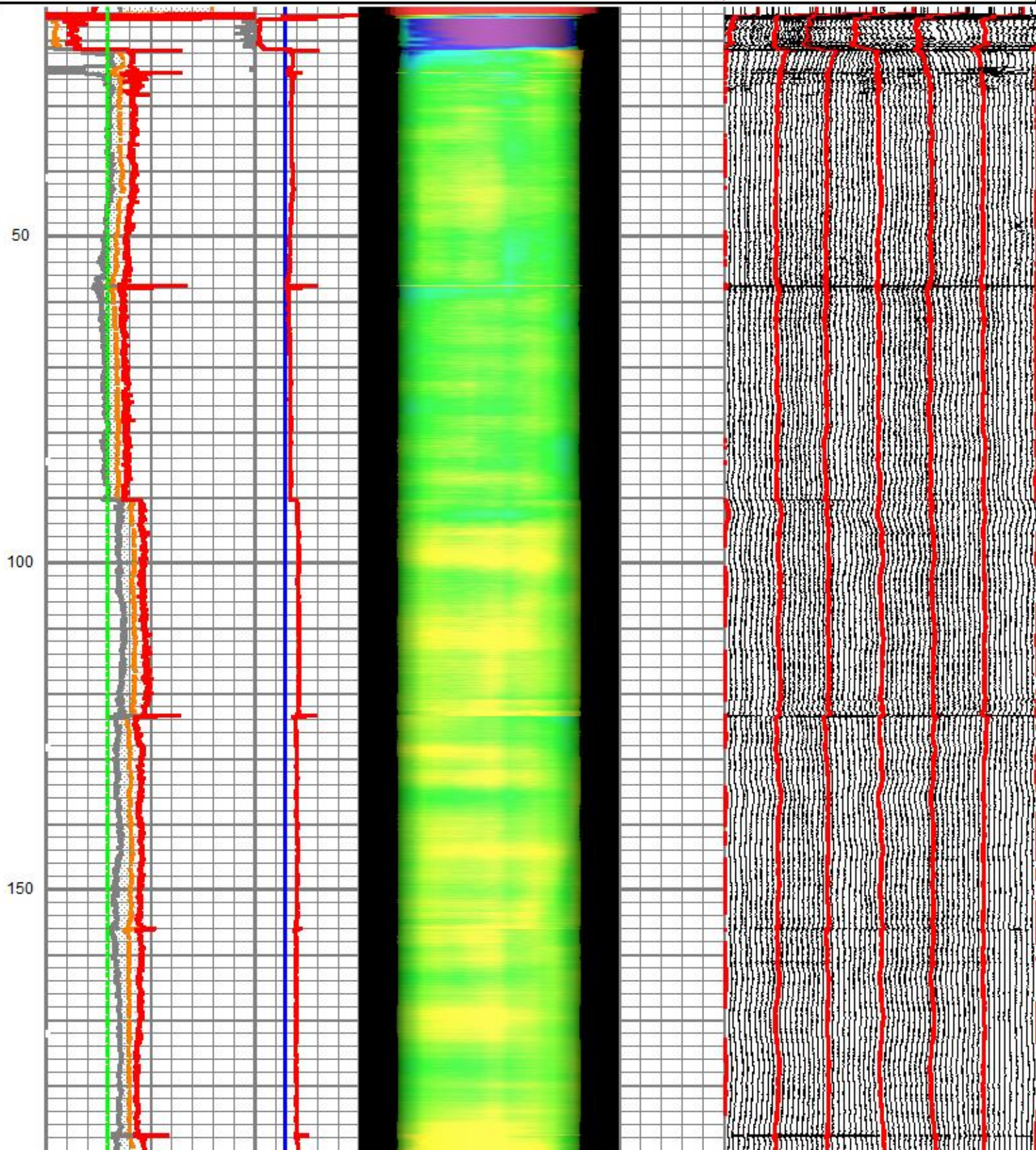
Database File llano disposal state 27 #1.db  
Dataset Pathname pass8  
Presentation Format pr60im96  
Dataset Creation Tue May 22 14:19:47 2018  
Charted by Depth in Feet scaled 1:240

|       |             |       |
|-------|-------------|-------|
| 8.625 | IDAV (in)   | 9.625 |
| 8.625 | IDMN (in)   | 9.625 |
| 8.625 | IDMX (in)   | 9.625 |
| 8.625 | CASEID (in) | 9.625 |

|              |   |
|--------------|---|
| CASEID       | 0 |
| 8.625in9.625 |   |
| IDAV         |   |
| 8.625in9.625 |   |

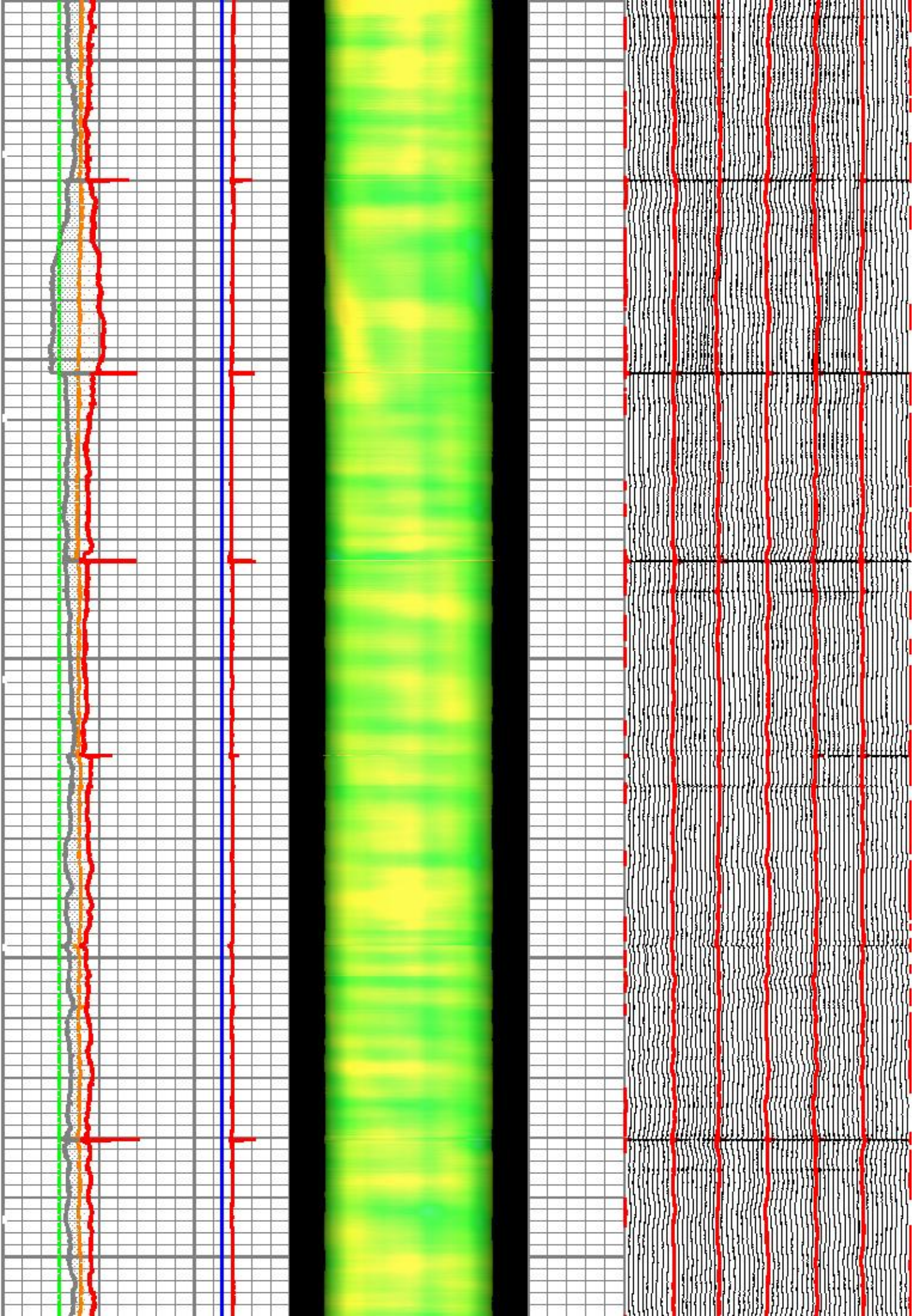


|      |          |     |
|------|----------|-----|
| 3.5  | R10 (in) | 9.5 |
| 2.5  | R20 (in) | 8.5 |
| 1.5  | R30 (in) | 7.5 |
| 0.5  | R40 (in) | 6.5 |
| -0.5 | R50 (in) | 5.5 |
| -1.5 | R60 (in) | 4.5 |

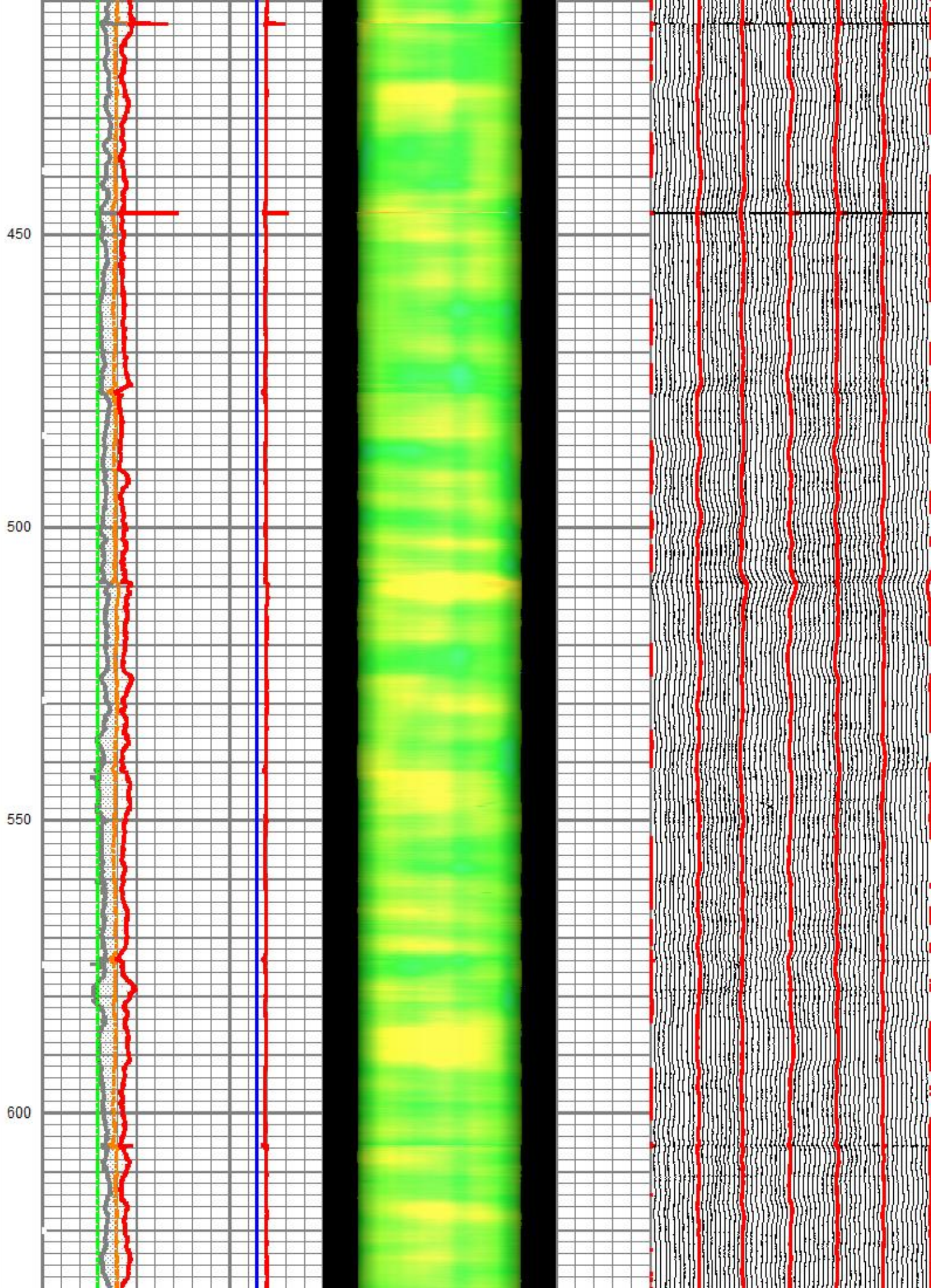




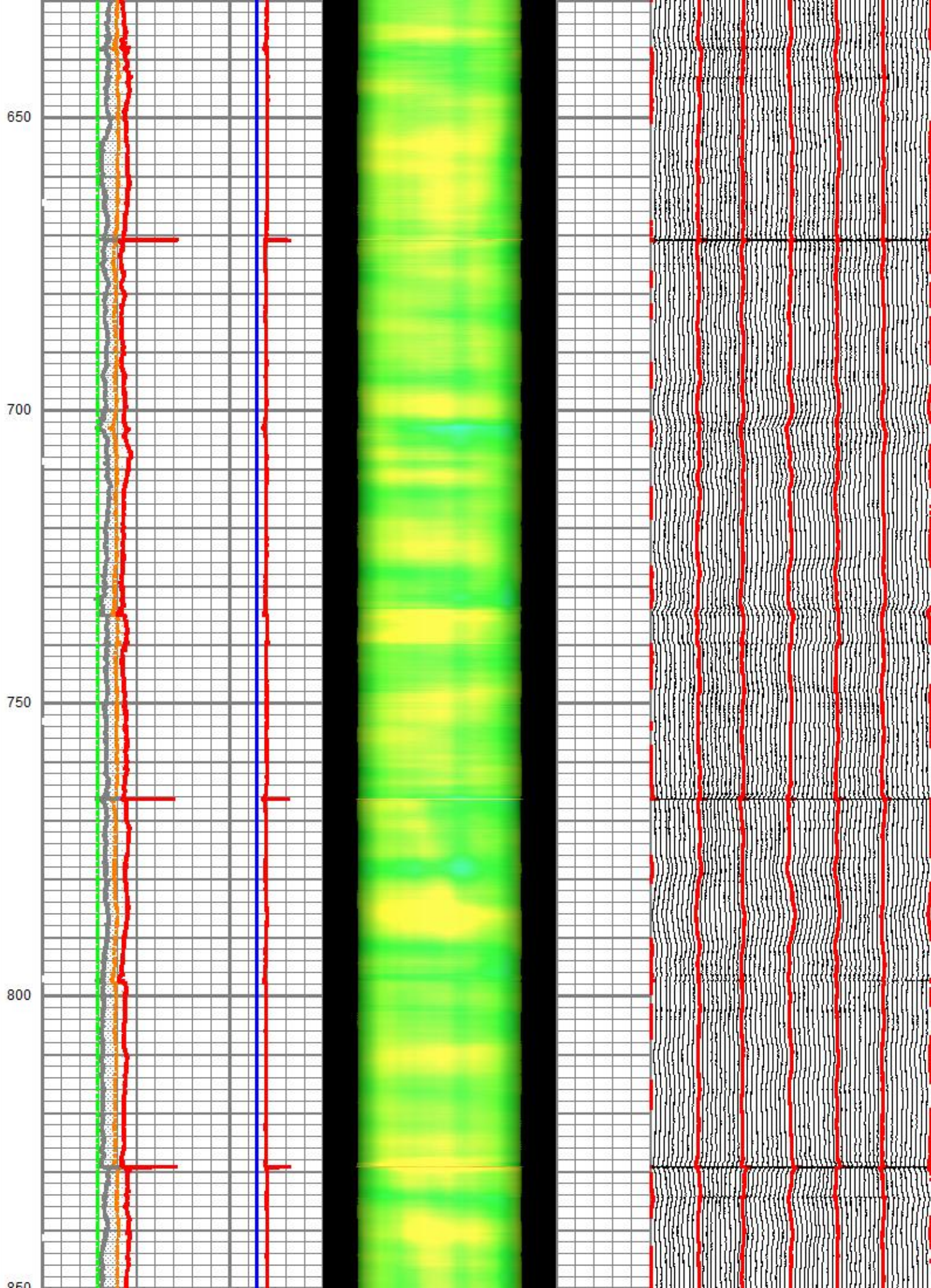
200  
250  
300  
350  
400



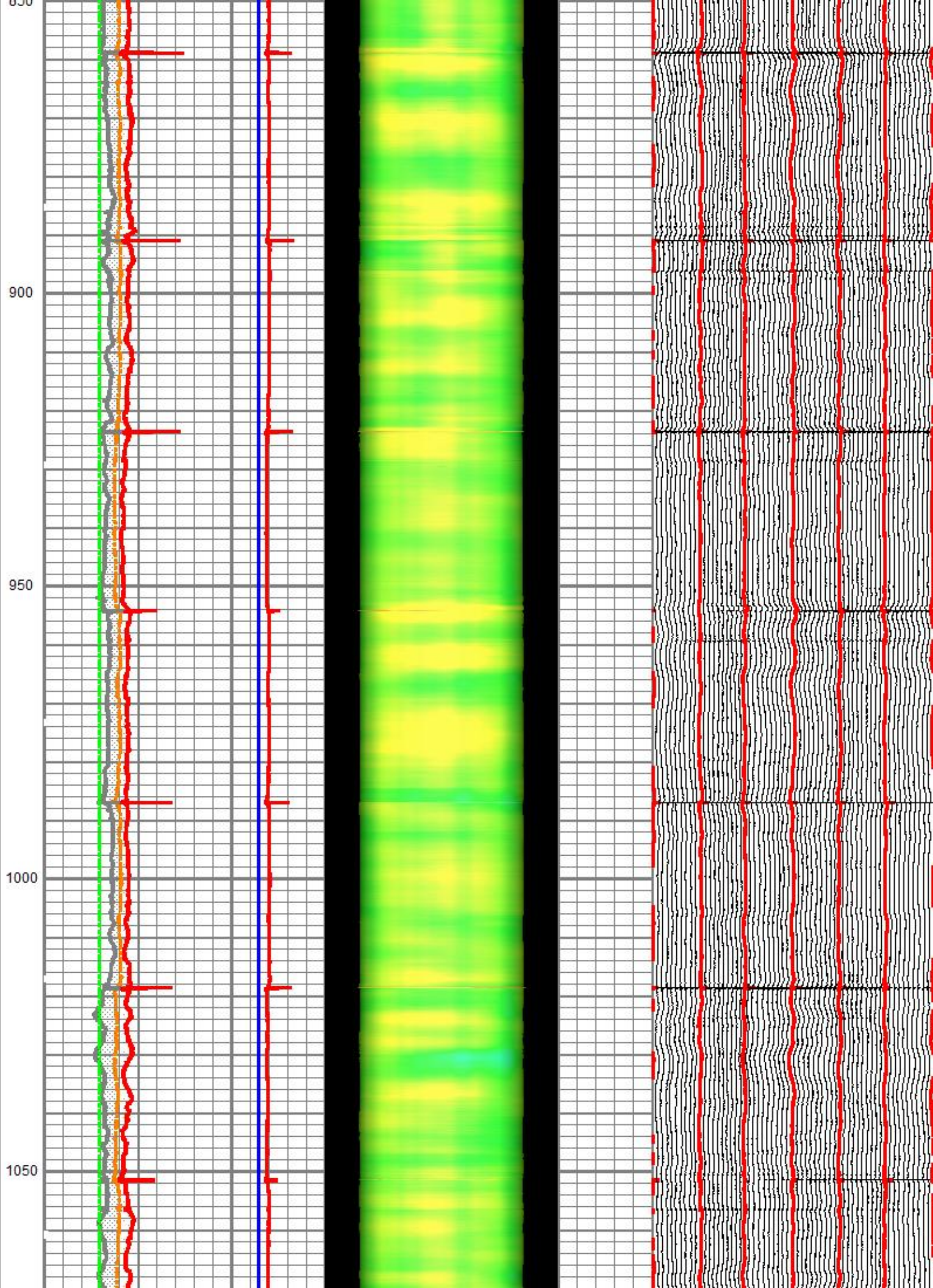




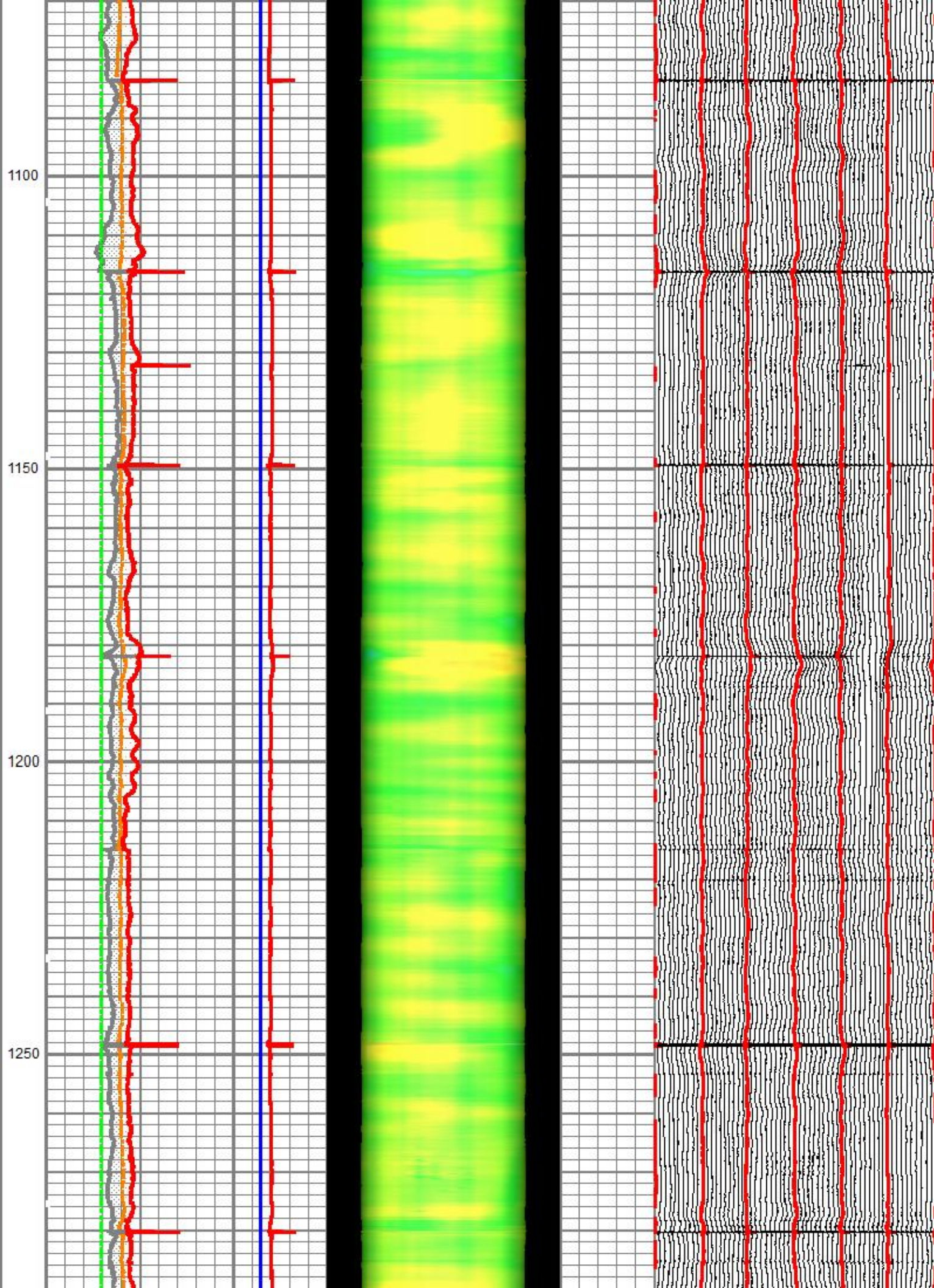




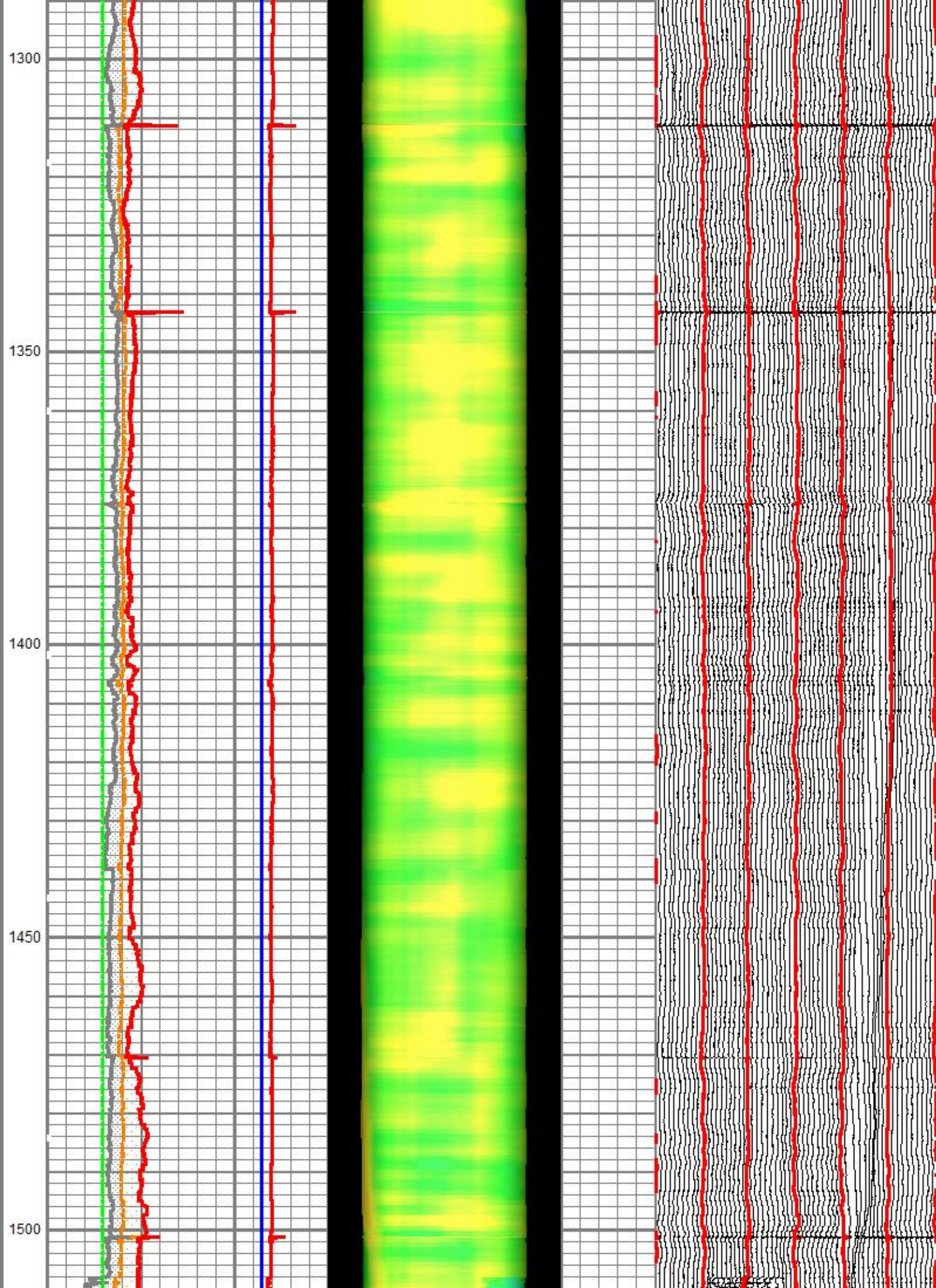




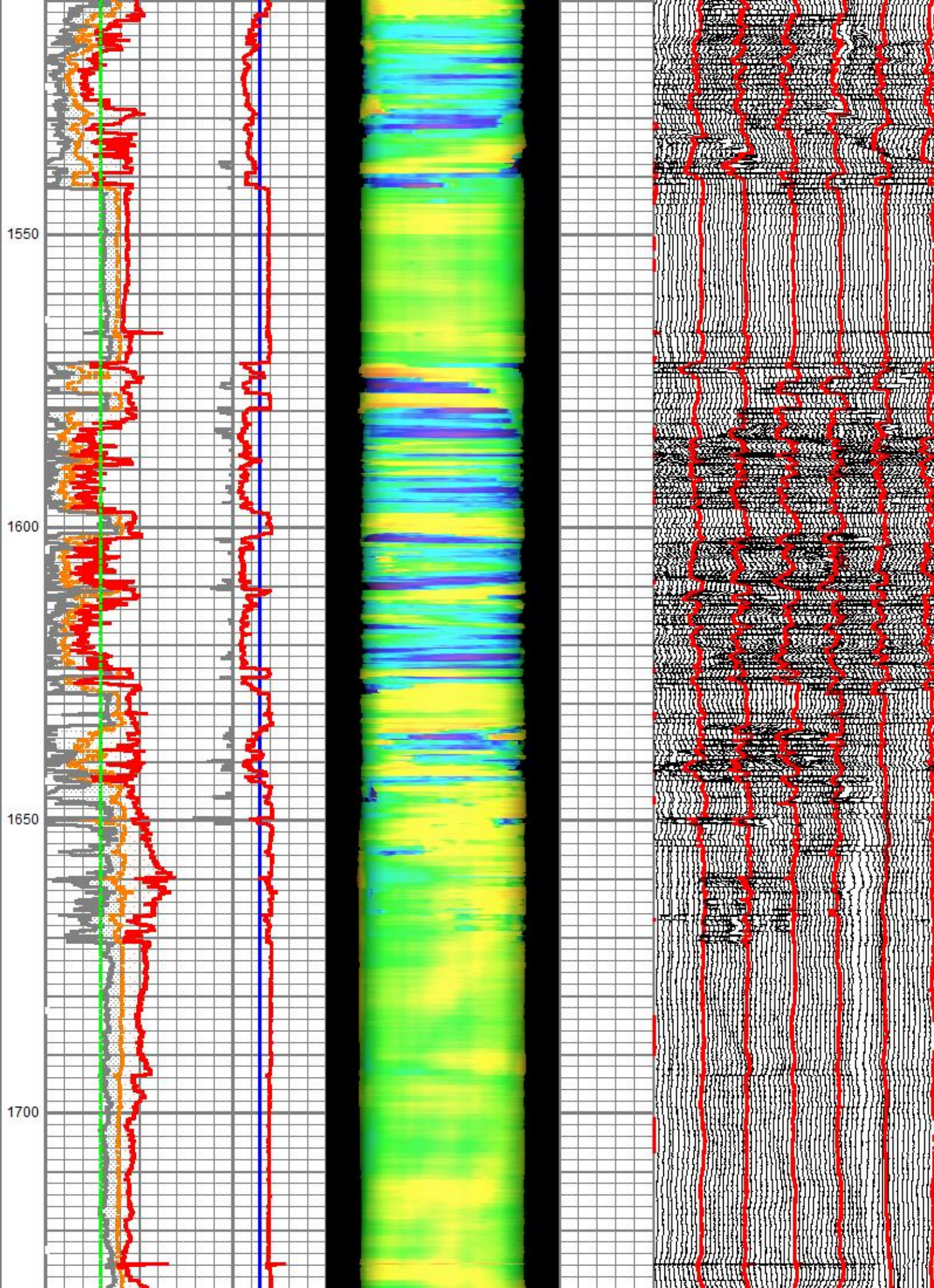




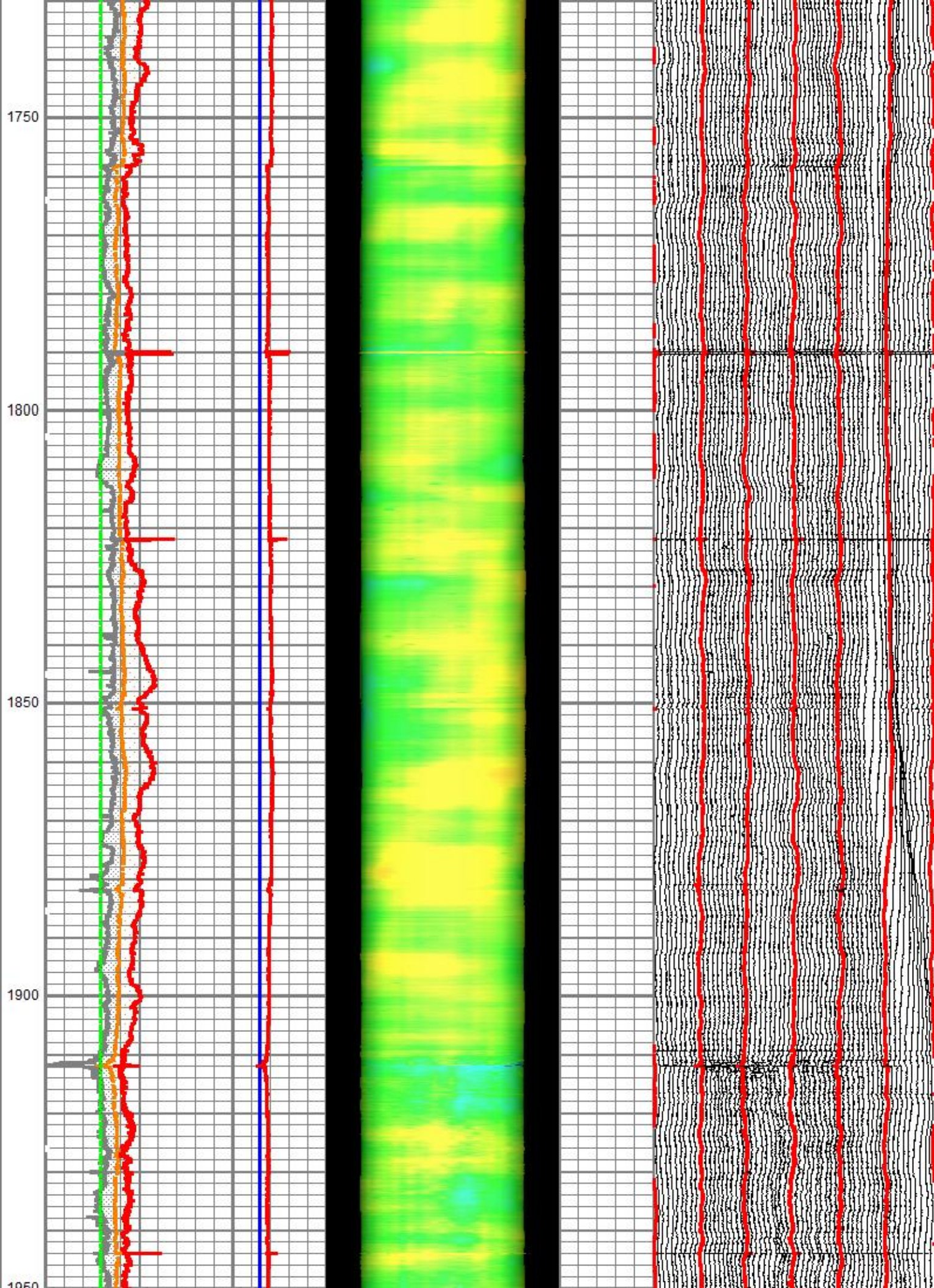




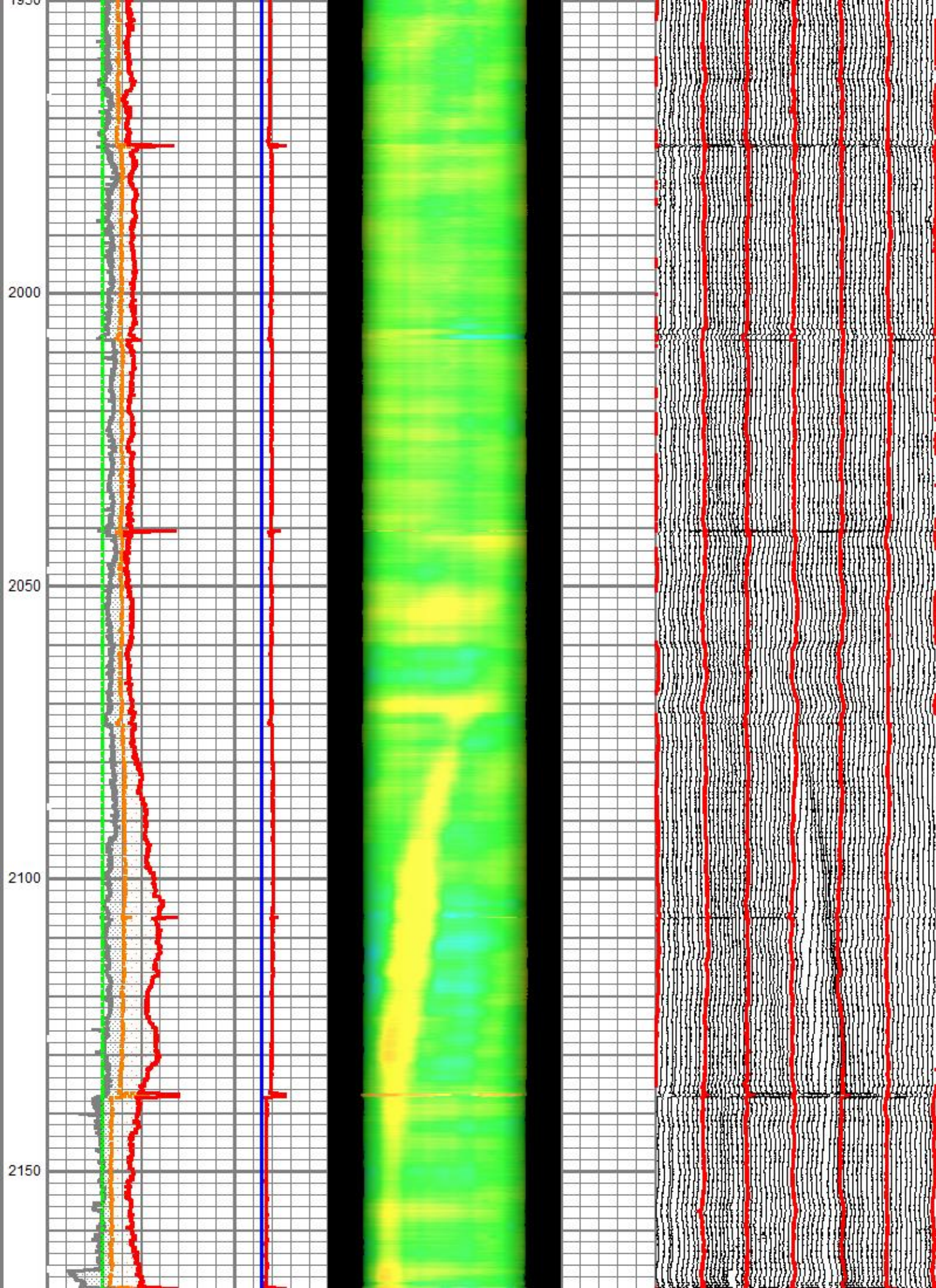




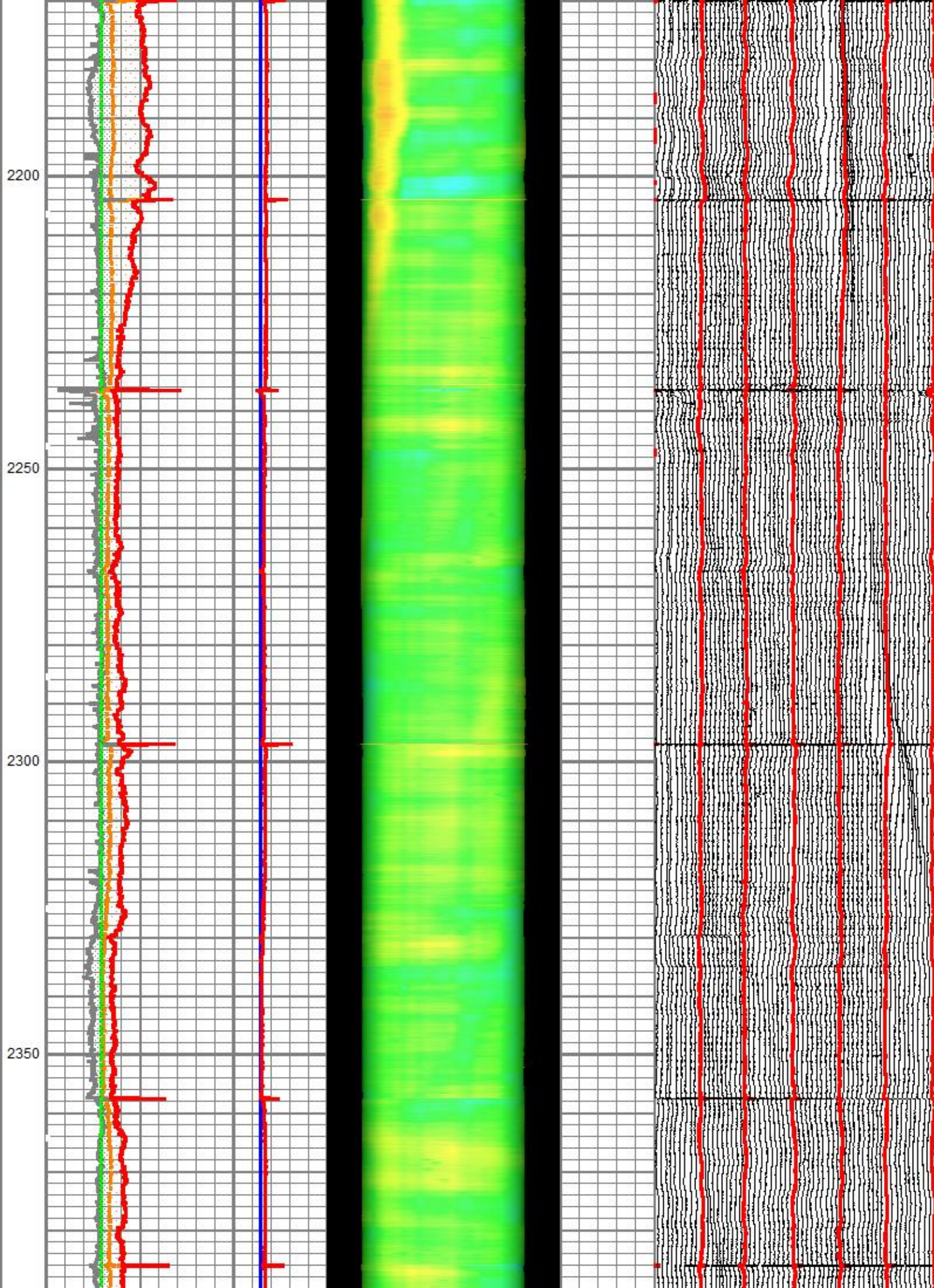




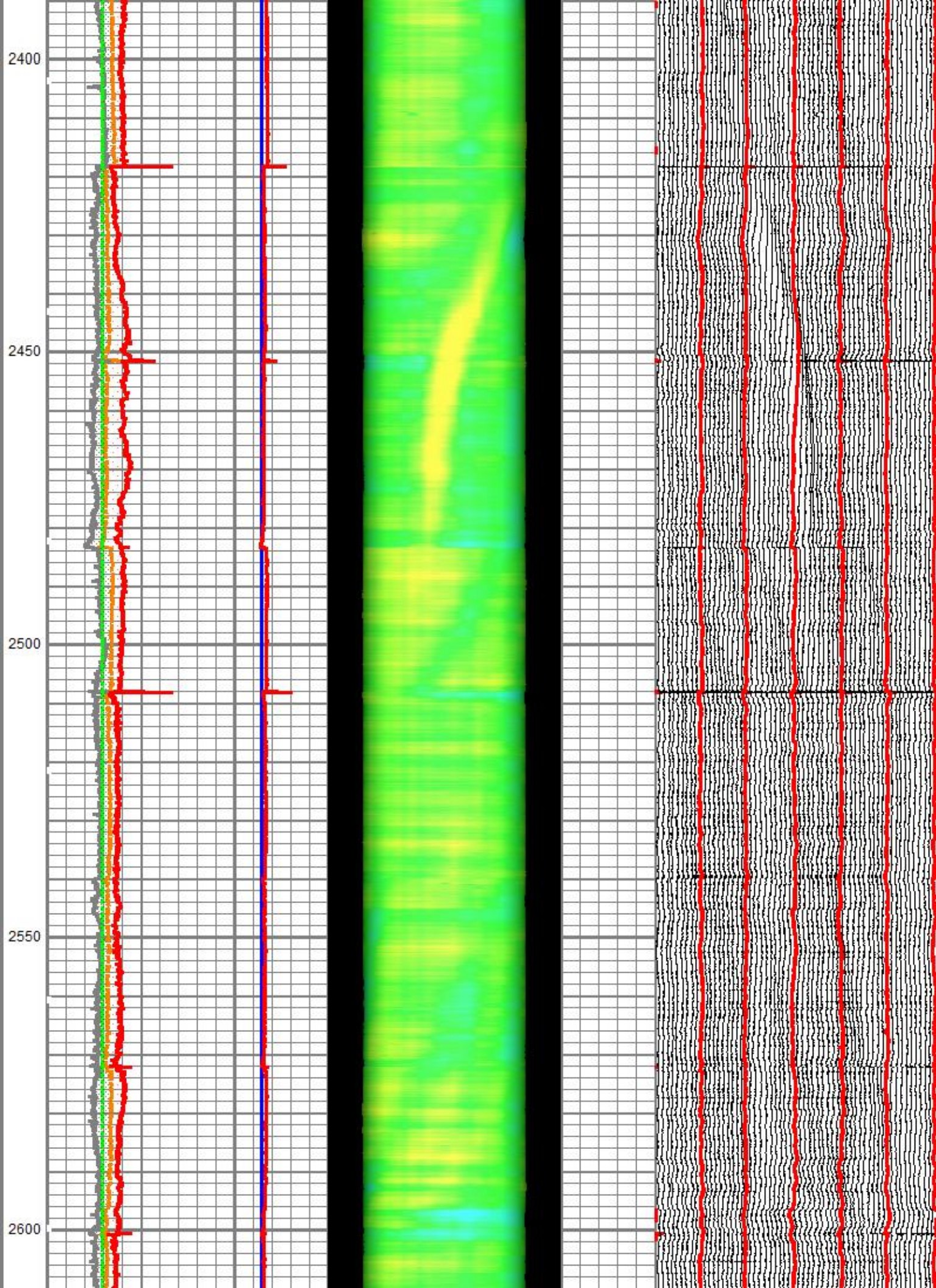




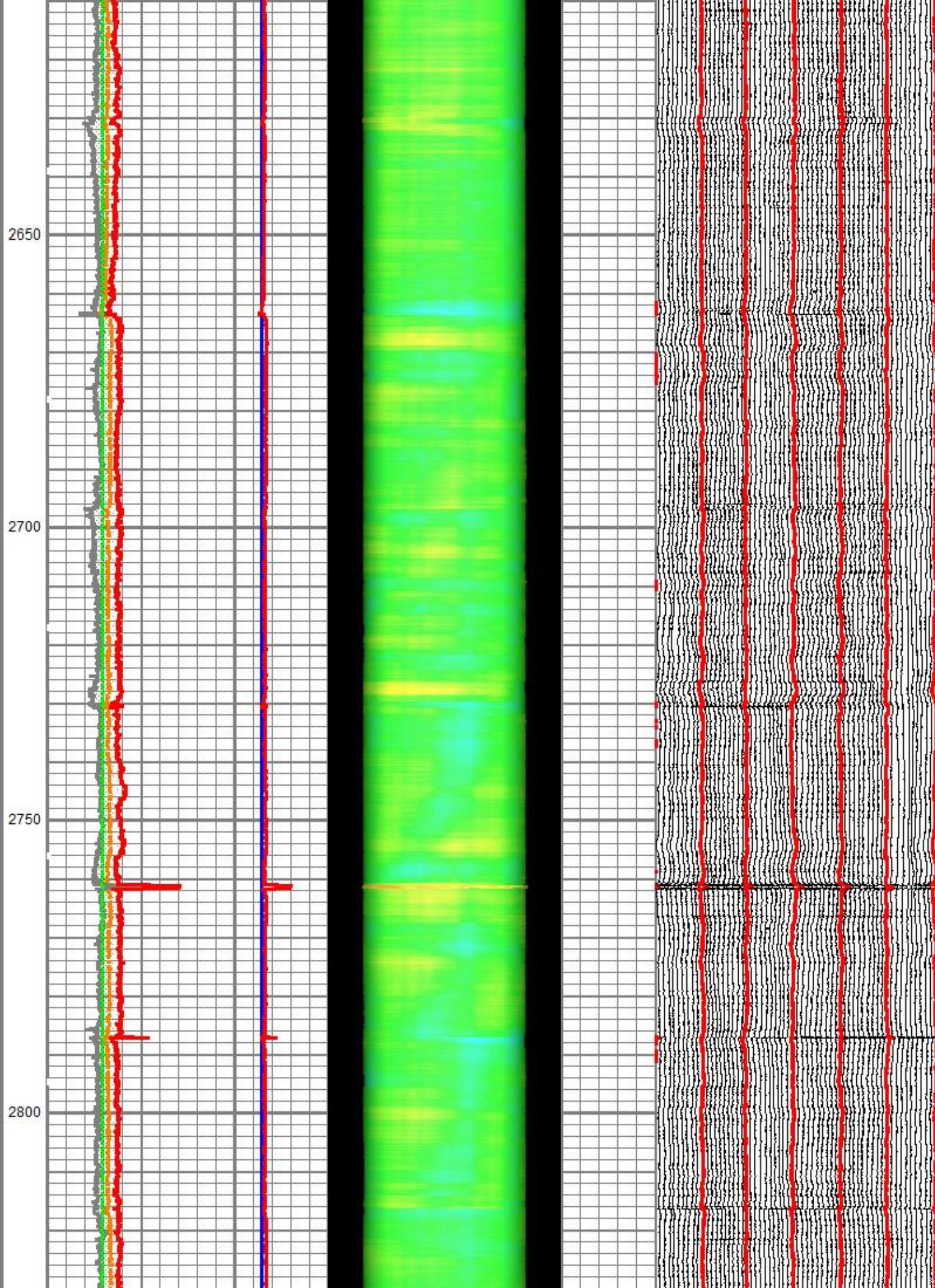




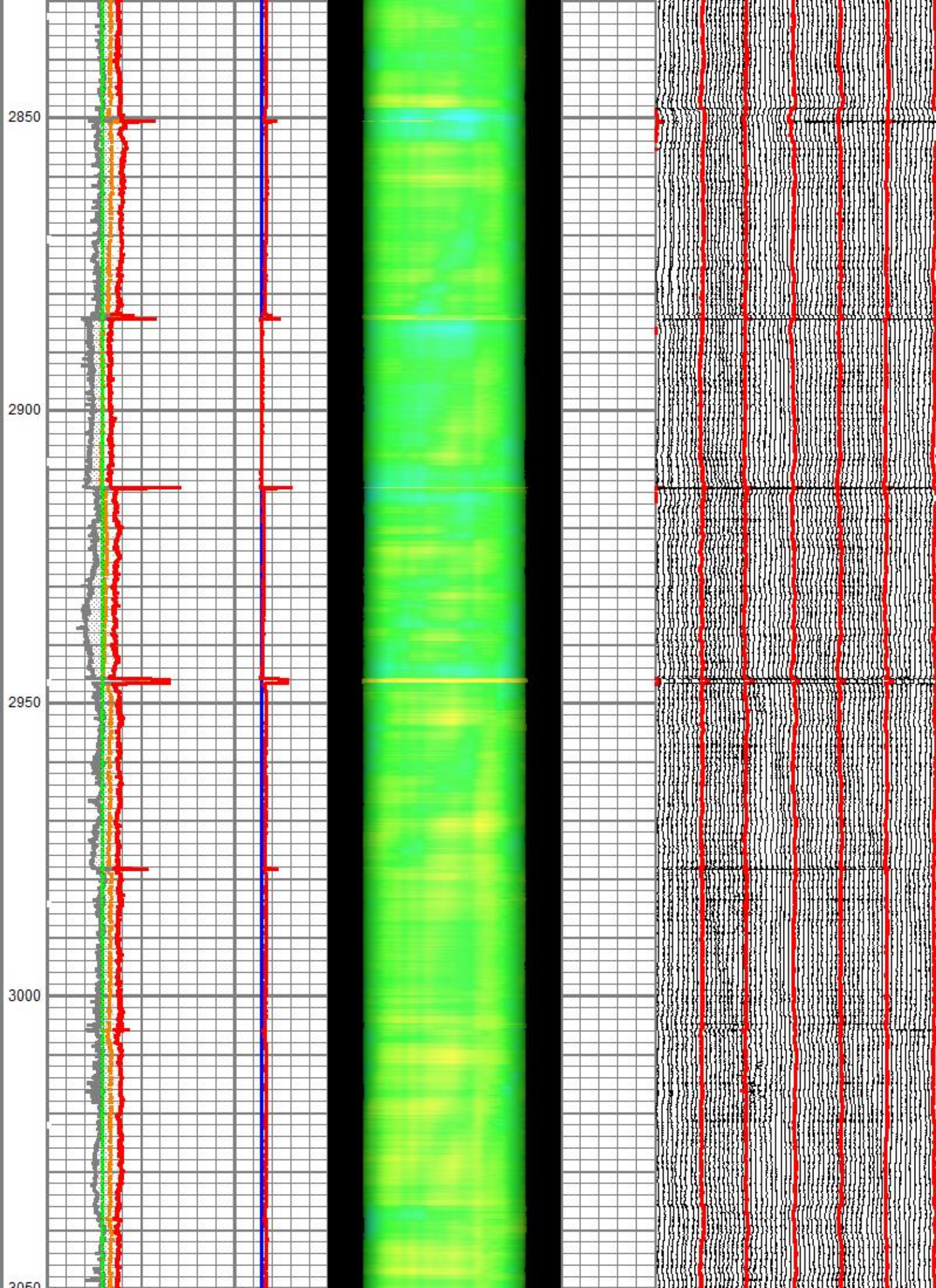




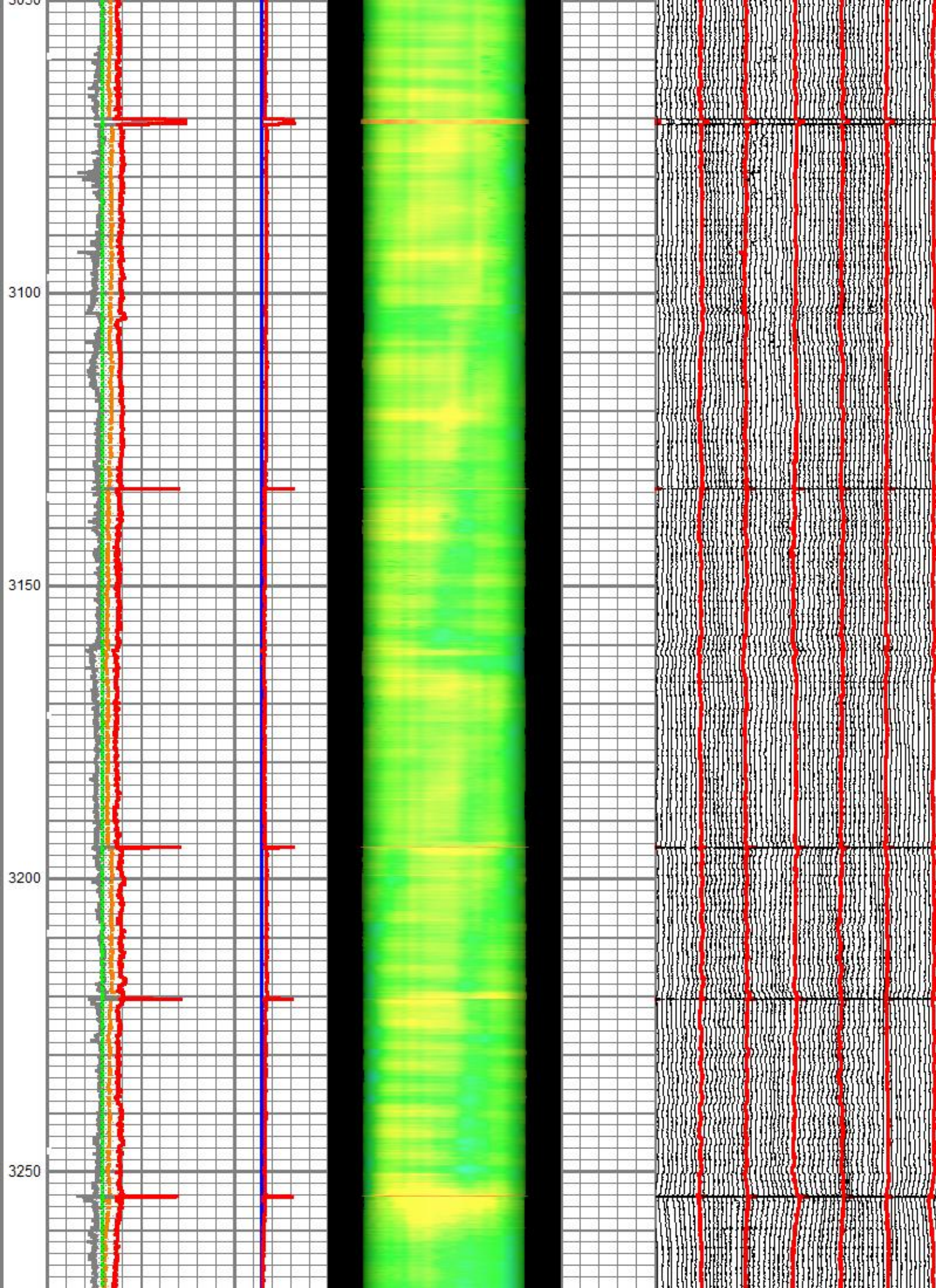












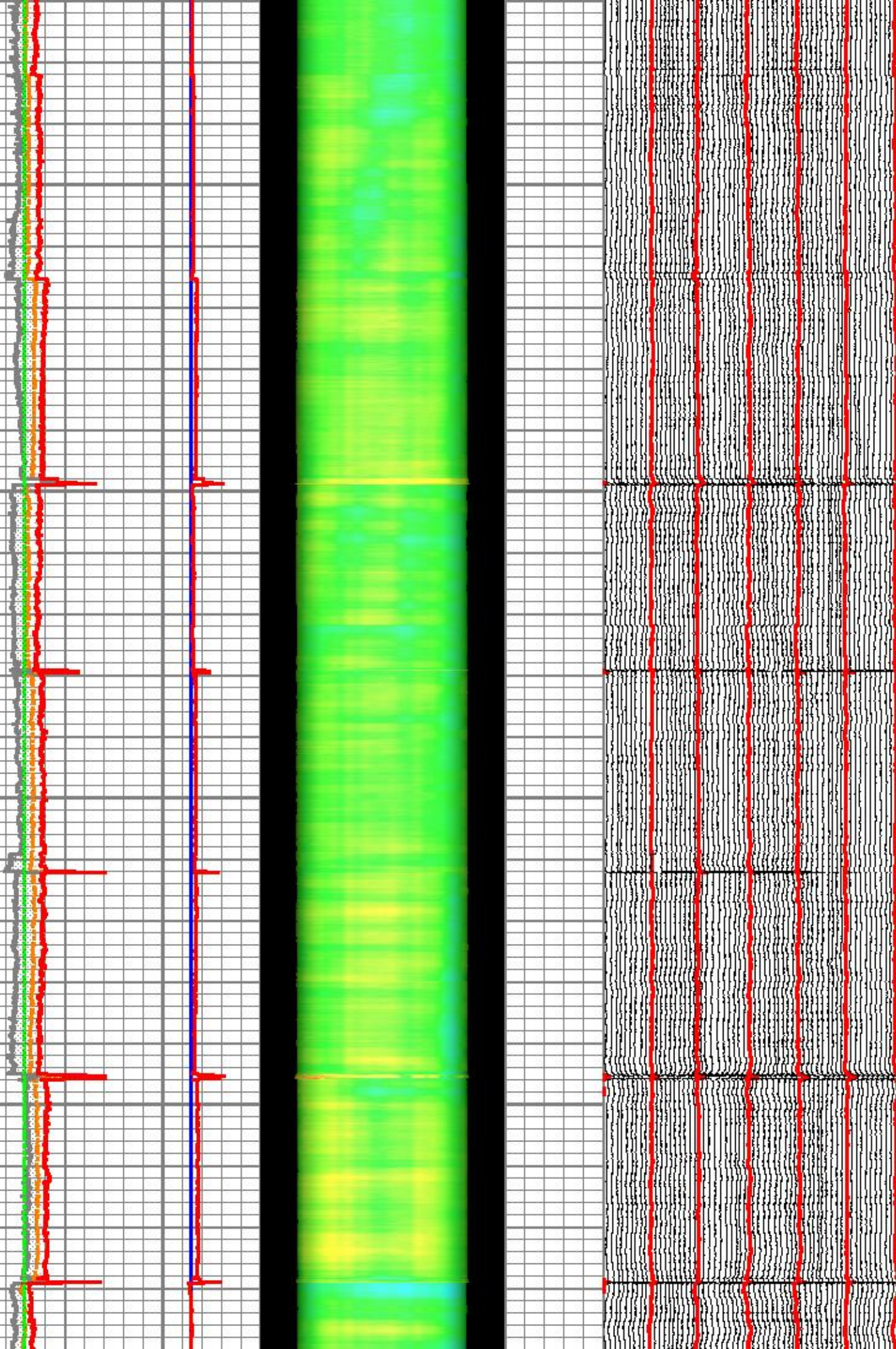


3300

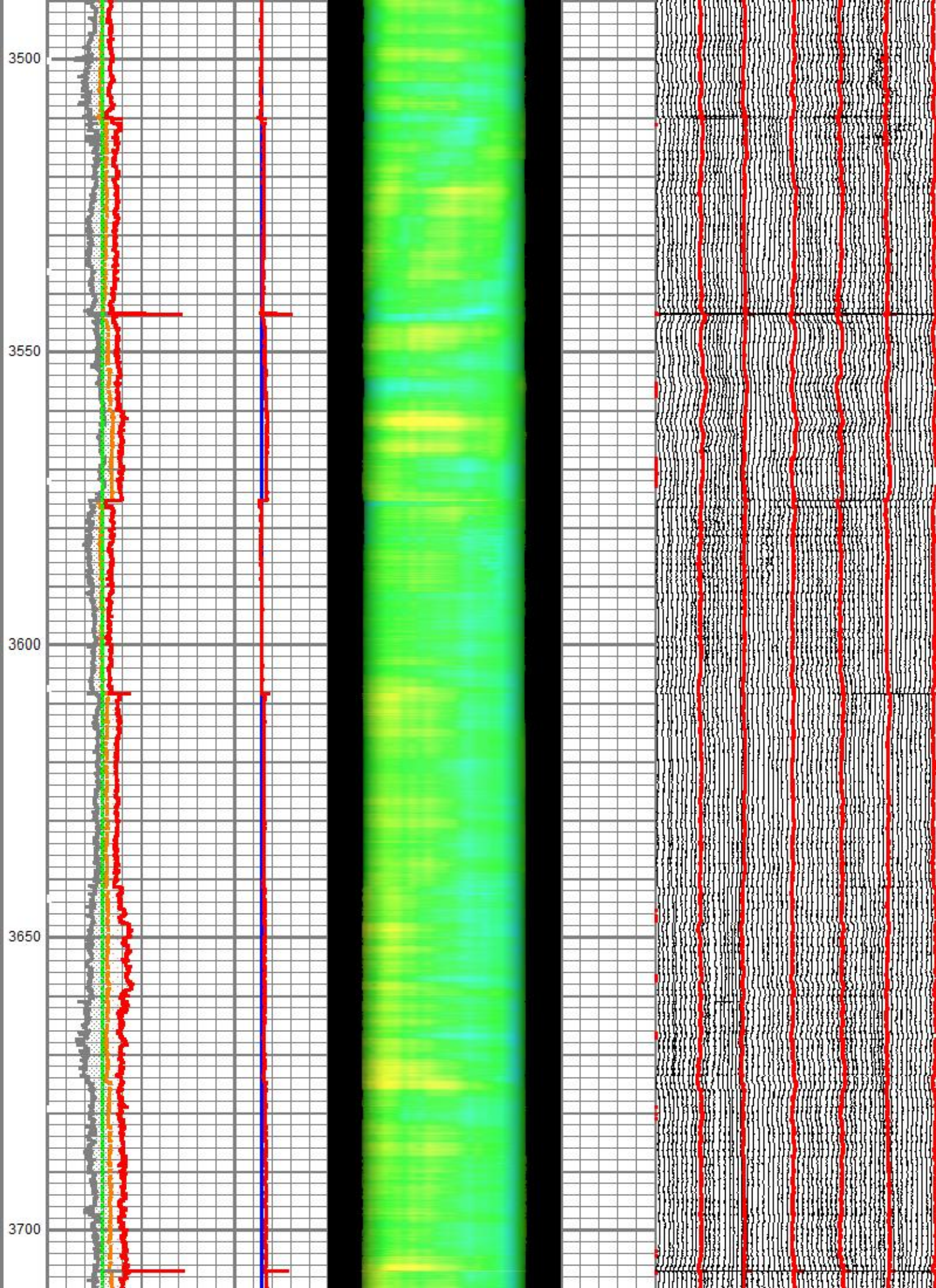
3350

3400

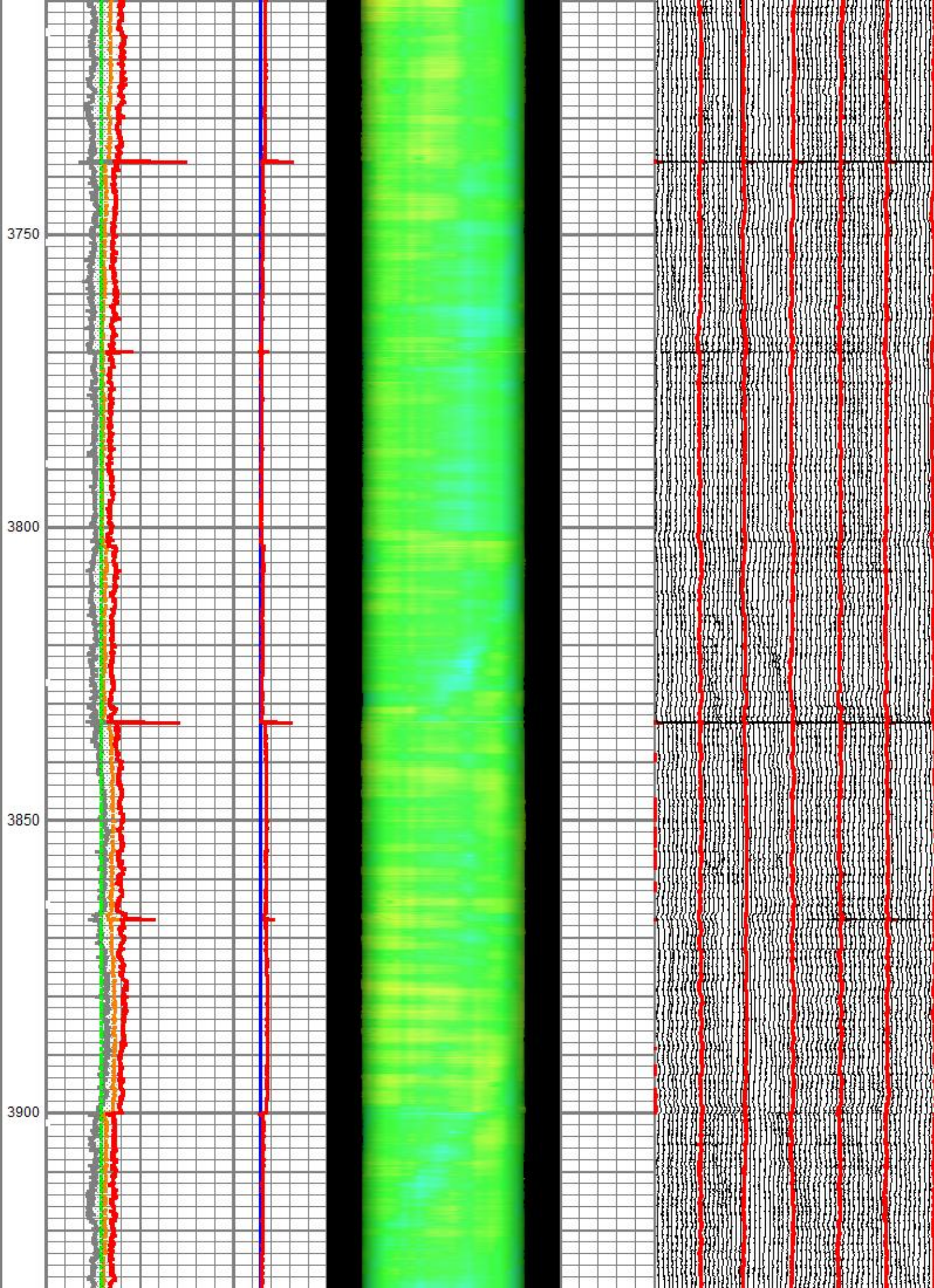
3450



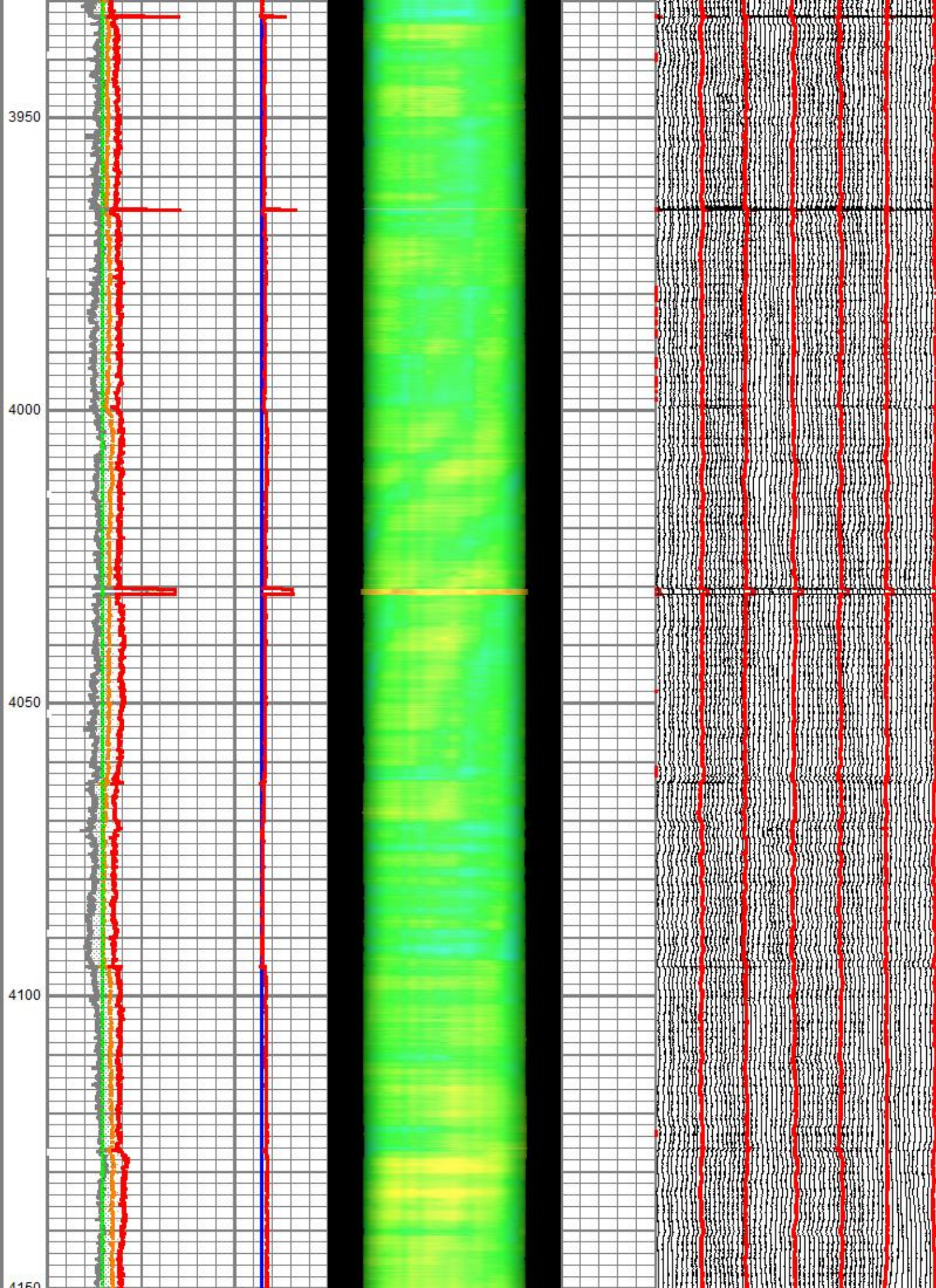




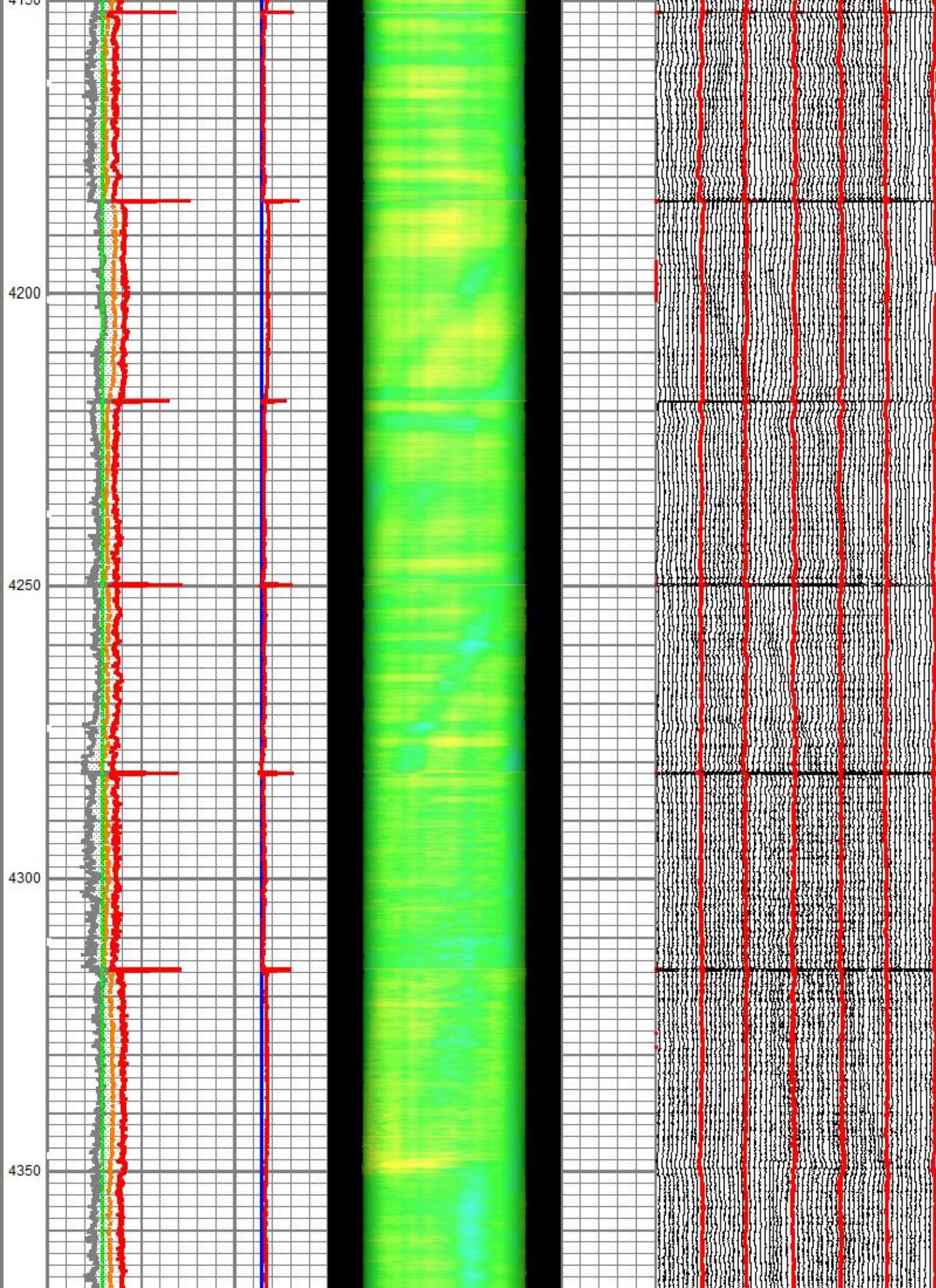




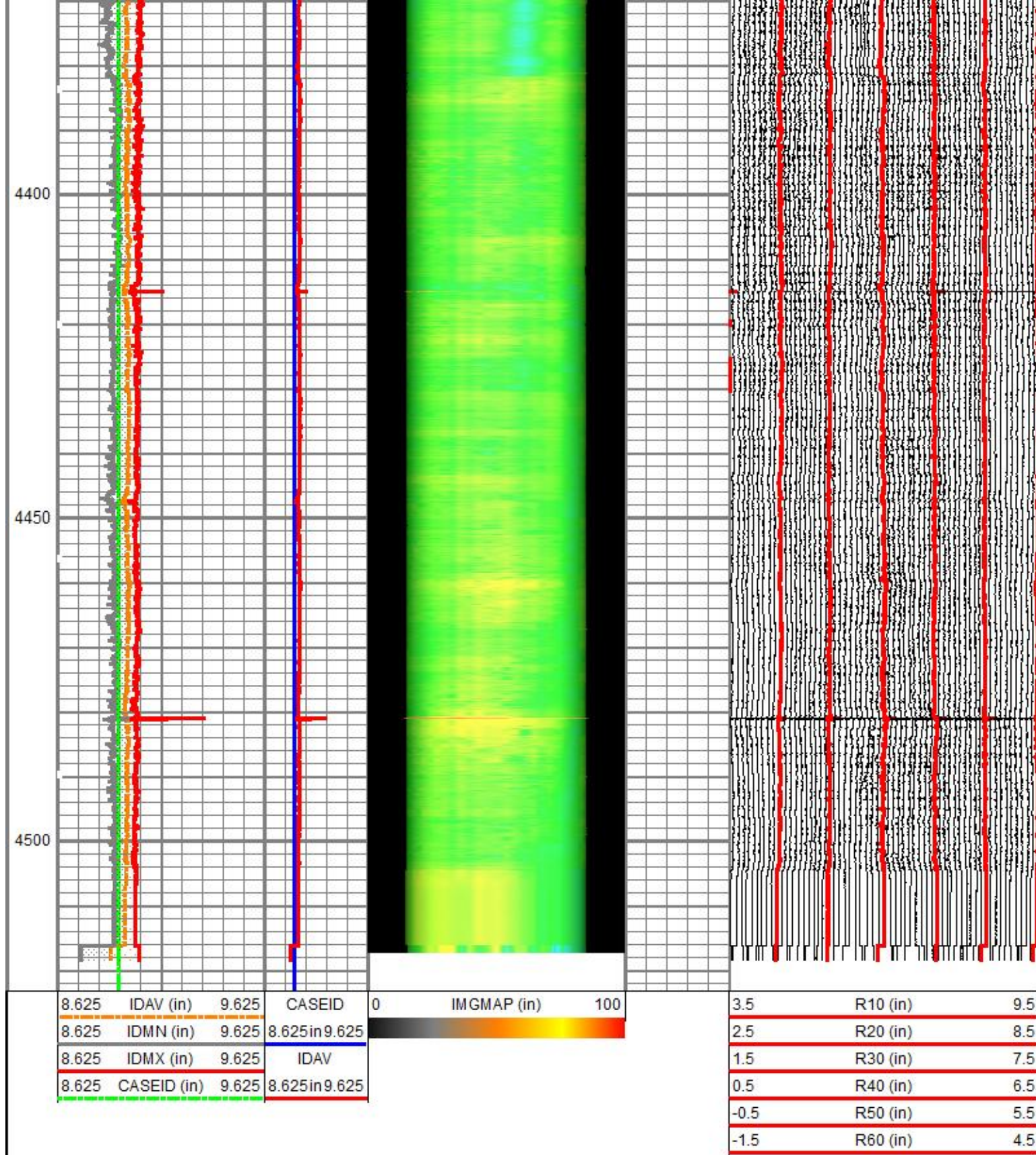










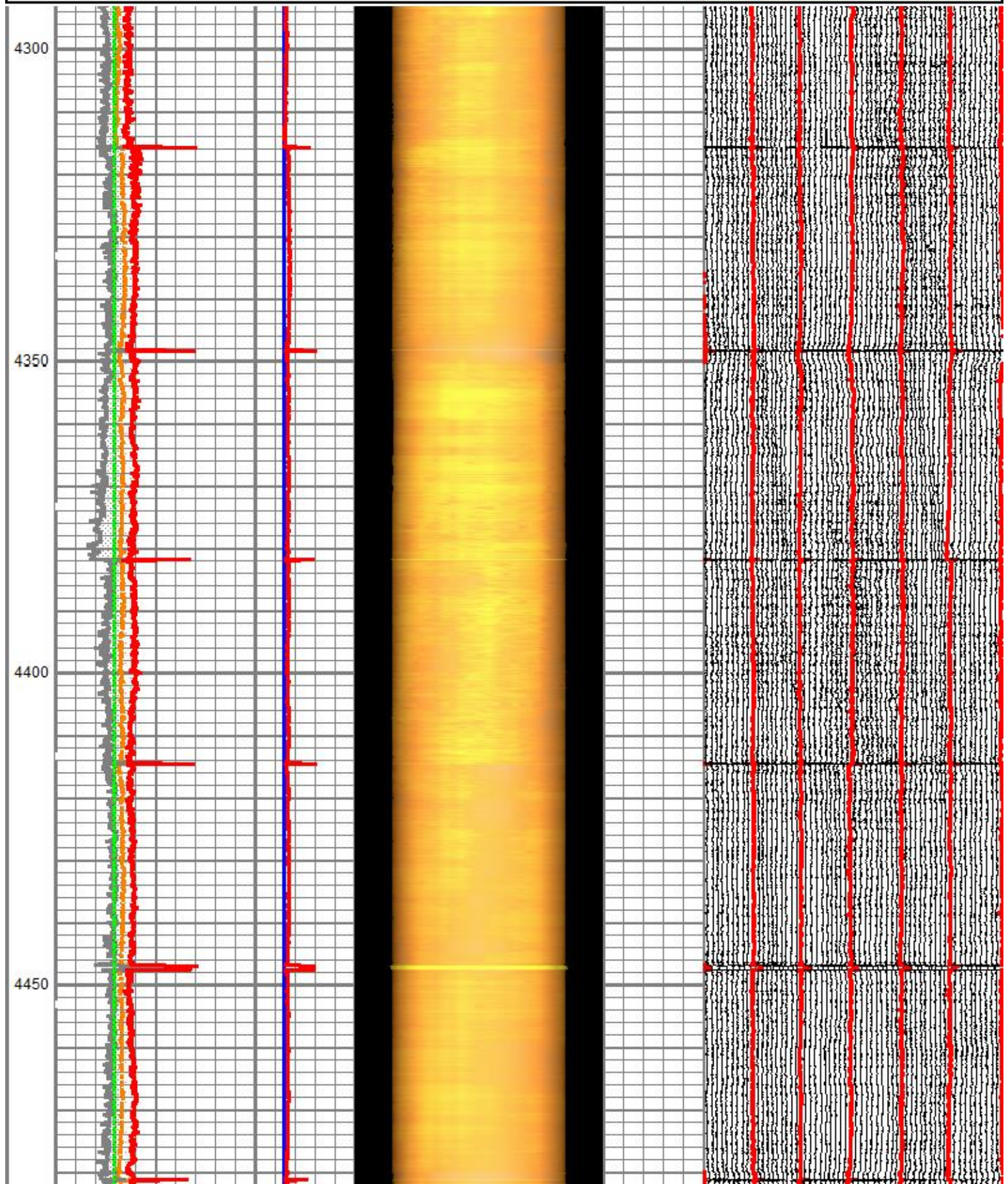


# REPEAT PASS

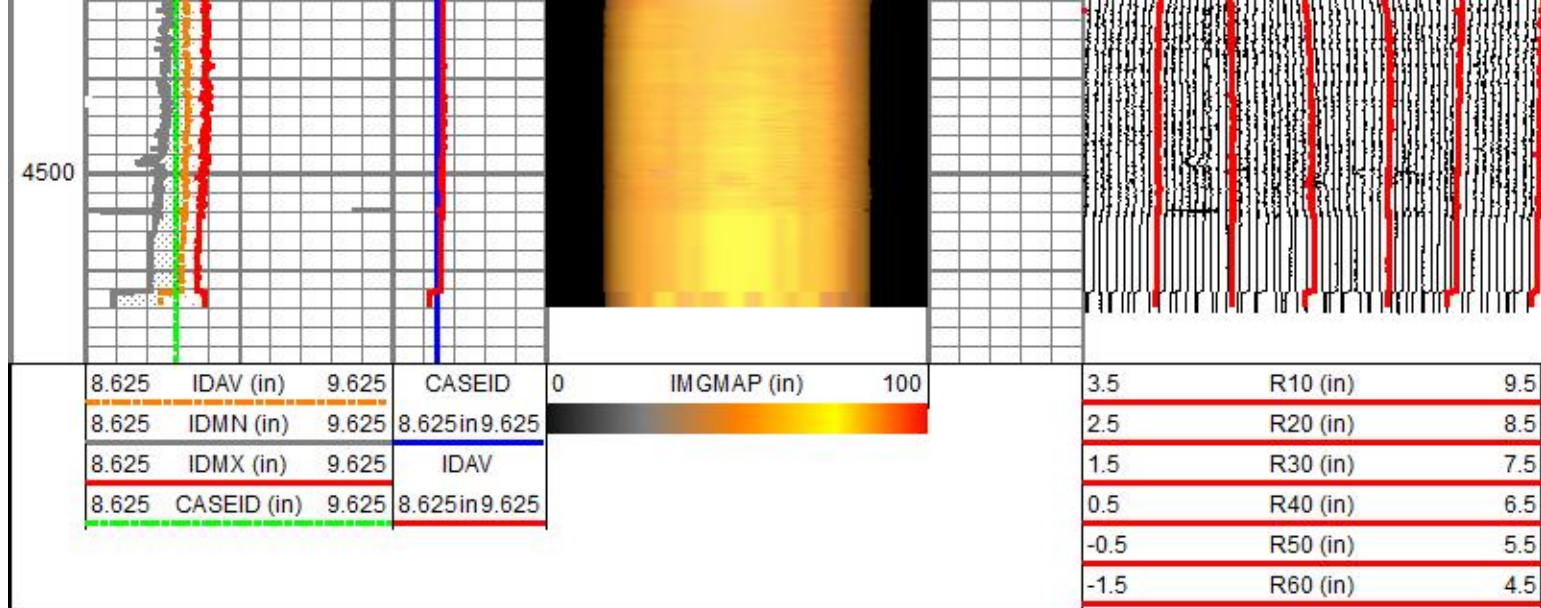
Database File Ilano disposal state 27 #1.db  
 Dataset Pathname pass6  
 Presentation Format pr60im96  
 Dataset Creation Tue May 22 13:59:08 2018  
 Charted by Depth in Feet scaled 1:240



|       |             |       |              |   |             |     |      |          |     |
|-------|-------------|-------|--------------|---|-------------|-----|------|----------|-----|
| 8.625 | IDAV (in)   | 9.625 | CASEID       | 0 | IMGMAP (in) | 100 | 3.5  | R10 (in) | 9.5 |
| 8.625 | IDMN (in)   | 9.625 | 8.625in9.625 |   |             |     | 2.5  | R20 (in) | 8.5 |
| 8.625 | IDMX (in)   | 9.625 | IDAV         |   |             |     | 1.5  | R30 (in) | 7.5 |
| 8.625 | CASEID (in) | 9.625 | 8.625in9.625 |   |             |     | 0.5  | R40 (in) | 6.5 |
|       |             |       |              |   |             |     | -0.5 | R50 (in) | 5.5 |
|       |             |       |              |   |             |     | -1.5 | R60 (in) | 4.5 |







## Log Variables

Database: C:\ProgramData\Warrior\Data\Iano disposal state 27 #1.db  
 Dataset: field/well/run1/pass8/\_vars\_

### Top - Bottom

| BHTEMP_Src | BOREID      | BOTTEMP     | CASED?  | CASEID      | CASEOD       | CASETHCK    | CASEWGHT    | CMNTTHCK     |
|------------|-------------|-------------|---------|-------------|--------------|-------------|-------------|--------------|
| TEMP       | in<br>10.75 | degF<br>100 | Yes     | in<br>8.921 | in<br>9.625  | in<br>0.352 | lb/ft<br>36 | in<br>0.5625 |
| CMTTKCOR   | CSTKCOR     | MAXAMPL     | MINAMPL | MinAPIWall  | MINATTN      | NPORSEL     | PERFS       | PPT          |
| On         | On          | mV<br>51    | mV<br>1 | in<br>0.317 | db/ft<br>0.8 | Limestone   | 0           | usec<br>0    |
| SRFTEMP    | SZCOR       | TDEPTH      |         |             |              |             |             |              |
| degF<br>0  | On          | ft<br>0     |         |             |              |             |             |              |

### Variable Description

BHTEMP\_Src : BHTEMP Input Source Selector  
 BOREID : Borehole I.D.  
 BOTTEMP : Bottom Hole Temperature  
 CASED? : Cased hole ?  
 CASEID : Casing I.D.  
 CASEOD : Casing O.D.  
 CASETHCK : Casing Thickness  
 CASEWGHT : Casing Weight  
 CMNTTHCK : Cement Thickness  
 CMTTKCOR : CN CemThk. Cor. ?  
 CSTKCOR : CN CasThk. Cor. ?

MAXAMPL : Maximum Amplitude  
 MINAMPL : Minimum Amplitude  
 MinAPIWall : Minimum API Wall Thickness  
 MINATTN : Minimum Attenuation  
 NPORSEL : Neutron Porosity Curve Select  
 PERFS : Perforation Flag  
 PPT : Predicted Pipe Weight  
 SRFTEMP : Surface Temperature  
 SZCOR : CN Size Cor. ?  
 TDEPTH : Total Depth

### Calibration Report

Database File: Iano disposal state 27 #1.db  
 Dataset Pathname: pass8  
 Dataset Creation: Tue May 22 14:19:47 2018

### 60 Arm Multi Sensor Caliper Calibration Report

|                |                          |      |      |      |   |   |
|----------------|--------------------------|------|------|------|---|---|
| Serial Number: | FW1404-32                |      |      |      |   |   |
| Tool Model:    | 60_INCL                  |      |      |      |   |   |
| Performed:     | Tue May 22 13:32:56 2018 |      |      |      |   |   |
| Ref ID:        | 6.00                     | 7.00 | 8.00 | 9.00 | - | - |
| Arm1           | 2.23                     | 2.82 | 3.45 | 4.16 | - | - |
| Arm2           | 2.44                     | 2.97 | 3.55 | 4.20 | - | - |



|       |      |      |      |      |   |   |
|-------|------|------|------|------|---|---|
| Arm3  | 1.69 | 2.31 | 2.97 | 3.72 | - | - |
| Arm4  | 2.28 | 2.80 | 3.40 | 4.07 | - | - |
| Arm5  | 2.82 | 3.29 | 3.82 | 4.38 | - | - |
| Arm6  | 2.21 | 2.75 | 3.36 | 4.04 | - | - |
| Arm7  | 3.35 | 3.78 | 4.25 | 4.73 | - | - |
| Arm8  | 1.73 | 2.27 | 2.90 | 3.65 | - | - |
| Arm9  | 2.98 | 3.42 | 3.91 | 4.40 | - | - |
| Arm10 | 3.18 | 3.59 | 4.03 | 4.51 | - | - |
| Arm11 | 2.21 | 2.78 | 3.45 | 4.18 | - | - |
| Arm12 | 3.17 | 3.59 | 4.03 | 4.49 | - | - |
| Arm13 | 2.95 | 3.45 | 3.98 | 4.50 | - | - |
| Arm14 | 3.14 | 3.62 | 4.11 | 4.57 | - | - |
| Arm15 | 2.73 | 3.22 | 3.73 | 4.24 | - | - |
| Arm16 | 3.24 | 3.72 | 4.21 | 4.65 | - | - |
| Arm17 | 2.48 | 2.97 | 3.48 | 3.99 | - | - |
| Arm18 | 3.22 | 3.72 | 4.23 | 4.65 | - | - |
| Arm19 | 1.64 | 2.28 | 2.93 | 3.55 | - | - |
| Arm20 | 3.10 | 3.57 | 4.03 | 4.47 | - | - |
| Arm21 | 3.16 | 3.65 | 4.13 | 4.56 | - | - |
| Arm22 | 2.92 | 3.41 | 3.91 | 4.37 | - | - |
| Arm23 | 2.00 | 2.58 | 3.25 | 3.91 | - | - |
| Arm24 | 3.26 | 3.78 | 4.26 | 4.64 | - | - |
| Arm25 | 1.84 | 2.52 | 3.20 | 3.80 | - | - |
| Arm26 | 3.24 | 3.72 | 4.17 | 4.57 | - | - |
| Arm27 | 2.53 | 3.05 | 3.55 | 4.00 | - | - |
| Arm28 | 3.30 | 3.76 | 4.20 | 4.59 | - | - |
| Arm29 | 1.51 | 2.26 | 3.03 | 3.70 | - | - |
| Arm30 | 3.35 | 3.87 | 4.36 | 4.74 | - | - |

\* Bad

|         |      |      |      |      |   |   |
|---------|------|------|------|------|---|---|
| Ref ID: | 6.00 | 7.00 | 8.00 | 9.00 | - | - |
| Arm31   | 3.07 | 3.58 | 4.06 | 4.48 | - | - |
| Arm32   | 2.94 | 3.47 | 3.99 | 4.43 | - | - |
| Arm33   | 3.16 | 3.68 | 4.18 | 4.61 | - | - |
| Arm34   | 3.13 | 3.61 | 4.07 | 4.49 | - | - |
| Arm35   | 1.95 | 2.62 | 3.28 | 3.87 | - | - |
| Arm36   | 2.87 | 3.37 | 3.85 | 4.29 | - | - |
| Arm37   | 1.66 | 2.32 | 2.98 | 3.59 | - | - |
| Arm38   | 2.76 | 3.22 | 3.68 | 4.12 | - | - |
| Arm39   | 2.73 | 3.20 | 3.67 | 4.12 | - | - |
| Arm40   | 2.14 | 2.76 | 3.40 | 4.04 | - | - |
| Arm41   | 2.05 | 2.66 | 3.30 | 3.94 | - | - |
| Arm42   | 1.95 | 2.53 | 3.12 | 3.67 | - | - |
| Arm43   | 3.11 | 3.61 | 4.11 | 4.58 | - | - |
| Arm44   | 1.90 | 2.54 | 3.18 | 3.81 | - | - |
| Arm45   | 2.97 | 3.43 | 3.90 | 4.37 | - | - |
| Arm46   | 2.87 | 3.34 | 3.82 | 4.31 | - | - |
| Arm47   | 2.60 | 3.18 | 3.79 | 4.40 | - | - |
| Arm48   | 2.11 | 2.63 | 3.22 | 3.86 | - | - |
| Arm49   | 3.10 | 3.54 | 4.01 | 4.49 | - | - |
| Arm50   | 2.89 | 3.24 | 3.71 | 4.16 | - | - |
| Arm51   | 1.88 | 2.43 | 3.06 | 3.78 | - | - |
| Arm52   | 2.00 | 2.49 | 3.09 | 3.77 | - | - |
| Arm53   | 2.30 | 2.91 | 3.54 | 4.24 | - | - |
| Arm54   | 2.32 | 2.87 | 3.46 | 4.12 | - | - |
| Arm55   | 2.01 | 2.56 | 3.16 | 3.84 | - | - |
| Arm56   | 3.04 | 3.45 | 3.88 | 4.37 | - | - |
| Arm57   | 2.92 | 3.34 | 3.80 | 4.32 | - | - |
| Arm58   | 2.20 | 2.74 | 3.35 | 4.03 | - | - |
| Arm59   | 2.08 | 2.62 | 3.22 | 3.90 | - | - |
| Arm60   | 3.08 | 3.48 | 3.92 | 4.42 | - | - |

\* Bad

# PROBE verifications Calibration Report

|            |                  |                   |              |
|------------|------------------|-------------------|--------------|
| Performed: | Pre Verification | Post Verification | Casing Check |
| Ref ID:    | 0.00             | 0.00              | 0.00 in      |



|       |      |      |      |    |
|-------|------|------|------|----|
| Min.  | 0.00 | 0.00 | 0.00 | in |
| Max.  | 0.00 | 0.00 | 0.00 | in |
| Avg.  | 0.00 | 0.00 | 0.00 | in |
| Dia1  | 0.00 | 0.00 | 0.00 | in |
| Dia2  | 0.00 | 0.00 | 0.00 | in |
| Dia3  | 0.00 | 0.00 | 0.00 | in |
| Dia4  | 0.00 | 0.00 | 0.00 | in |
| Dia5  | 0.00 | 0.00 | 0.00 | in |
| Dia6  | 0.00 | 0.00 | 0.00 | in |
| Dia7  | 0.00 | 0.00 | 0.00 | in |
| Dia8  | 0.00 | 0.00 | 0.00 | in |
| Dia9  | 0.00 | 0.00 | 0.00 | in |
| Dia10 | 0.00 | 0.00 | 0.00 | in |
| Dia11 | 0.00 | 0.00 | 0.00 | in |
| Dia12 | 0.00 | 0.00 | 0.00 | in |
| Dia13 | 0.00 | 0.00 | 0.00 | in |
| Dia14 | 0.00 | 0.00 | 0.00 | in |
| Dia15 | 0.00 | 0.00 | 0.00 | in |
| Dia16 | 0.00 | 0.00 | 0.00 | in |
| Dia17 | 0.00 | 0.00 | 0.00 | in |
| Dia18 | 0.00 | 0.00 | 0.00 | in |
| Dia19 | 0.00 | 0.00 | 0.00 | in |
| Dia20 | 0.00 | 0.00 | 0.00 | in |
| Dia21 | 0.00 | 0.00 | 0.00 | in |
| Dia22 | 0.00 | 0.00 | 0.00 | in |
| Dia23 | 0.00 | 0.00 | 0.00 | in |
| Dia24 | 0.00 | 0.00 | 0.00 | in |
| Dia25 | 0.00 | 0.00 | 0.00 | in |
| Dia26 | 0.00 | 0.00 | 0.00 | in |
| Dia27 | 0.00 | 0.00 | 0.00 | in |
| Dia28 | 0.00 | 0.00 | 0.00 | in |
| Dia29 | 0.00 | 0.00 | 0.00 | in |
| Dia30 | 0.00 | 0.00 | 0.00 | in |

| Inclinometer Calibration Report |                 |            |          |           |     |
|---------------------------------|-----------------|------------|----------|-----------|-----|
| Performed:                      | (Not Performed) |            |          |           |     |
|                                 | Low Read.       | High Read. | Low Ref. | High Ref. |     |
| X Accelerometer                 | 0.00            | 1.00       | 0.00     | 1.00      | gee |
| Y Accelerometer                 | 0.00            | 1.00       | 0.00     | 1.00      | gee |
| Z Accelerometer                 | 0.00            | 1.00       | 0.00     | 1.00      | gee |

| Sensor | Offset (ft) | Schematic                                                                           | Description                             | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|-------------------------------------------------------------------------------------|-----------------------------------------|-------------|-----------|-------------|
|        |             |  | CHD-STNDRD (GOI)<br>Standard Cable Head | 1.00        | 1.38      | 10.00       |
|        |             |                                                                                     | CENT-Probe<br>Probe 2 3/4 Centralizer   | 2.75        | 2.75      | 20.00       |



|                                                                                                                                     |      |                                                                                  |                                                                      |      |      |        |
|-------------------------------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|------|------|--------|
| ACCZ                                                                                                                                | 7.75 |  | Probe_MFCAL-60_INCL (FW1404-32)<br>Probe 60 Arm Multi Sensor Caliper | 7.57 | 3.63 | 135.00 |
| ACCY                                                                                                                                | 7.75 |                                                                                  |                                                                      |      |      |        |
| ACCX                                                                                                                                | 7.75 |                                                                                  |                                                                      |      |      |        |
| ETEMP                                                                                                                               | 5.25 |                                                                                  |                                                                      |      |      |        |
| Meas                                                                                                                                | 4.42 |                                                                                  |                                                                      |      |      |        |
|                                                                                                                                     |      |                                                                                  | CENT-Probe<br>Probe 2 3/4 Centralizer                                | 2.75 | 2.75 | 20.00  |
| Dataset: llano disposal state 27 #1.db: field/well/run1/pass8<br>Total length: 14.07 ft<br>Total weight: 185.00 lb<br>O.D.: 3.63 in |      |                                                                                  |                                                                      |      |      |        |