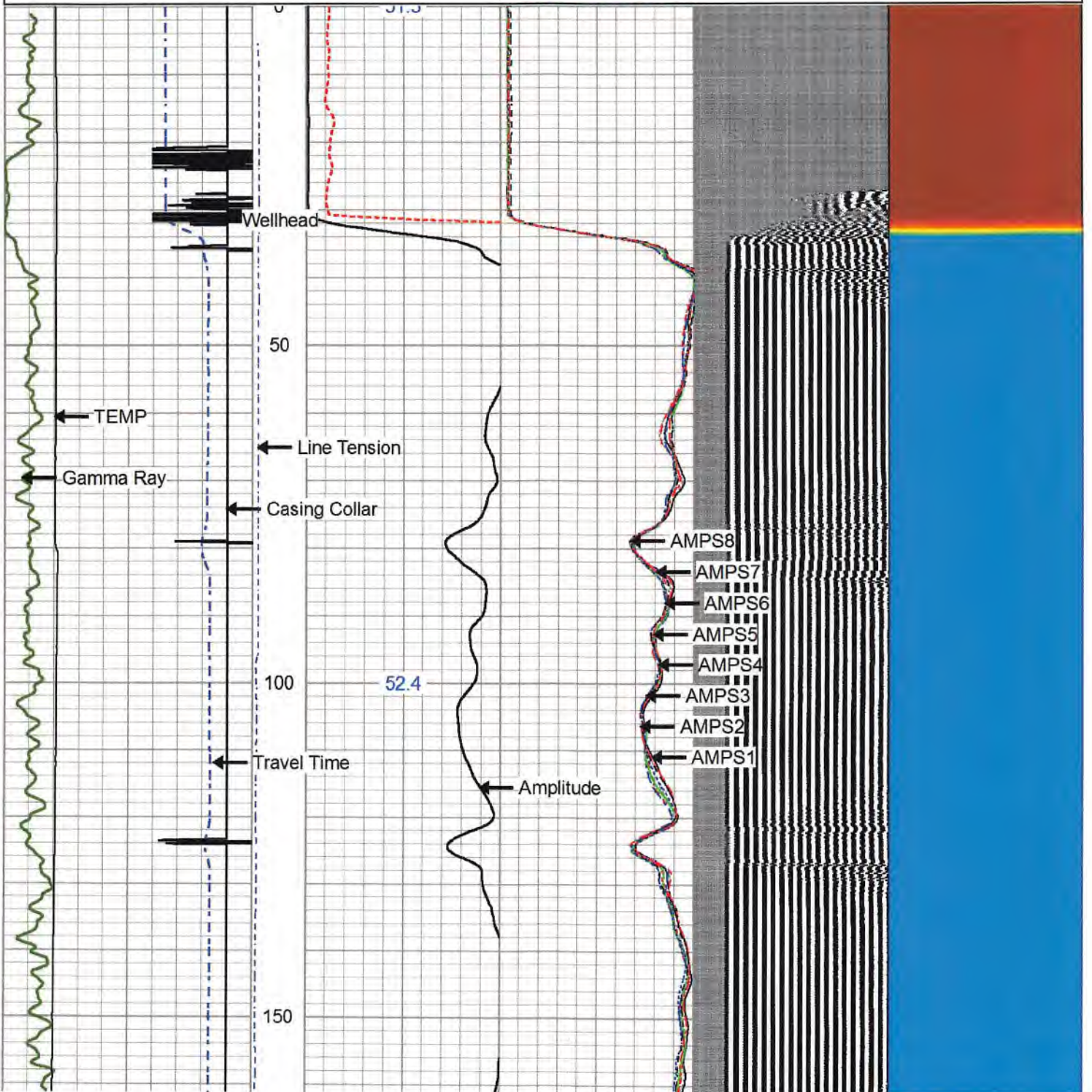
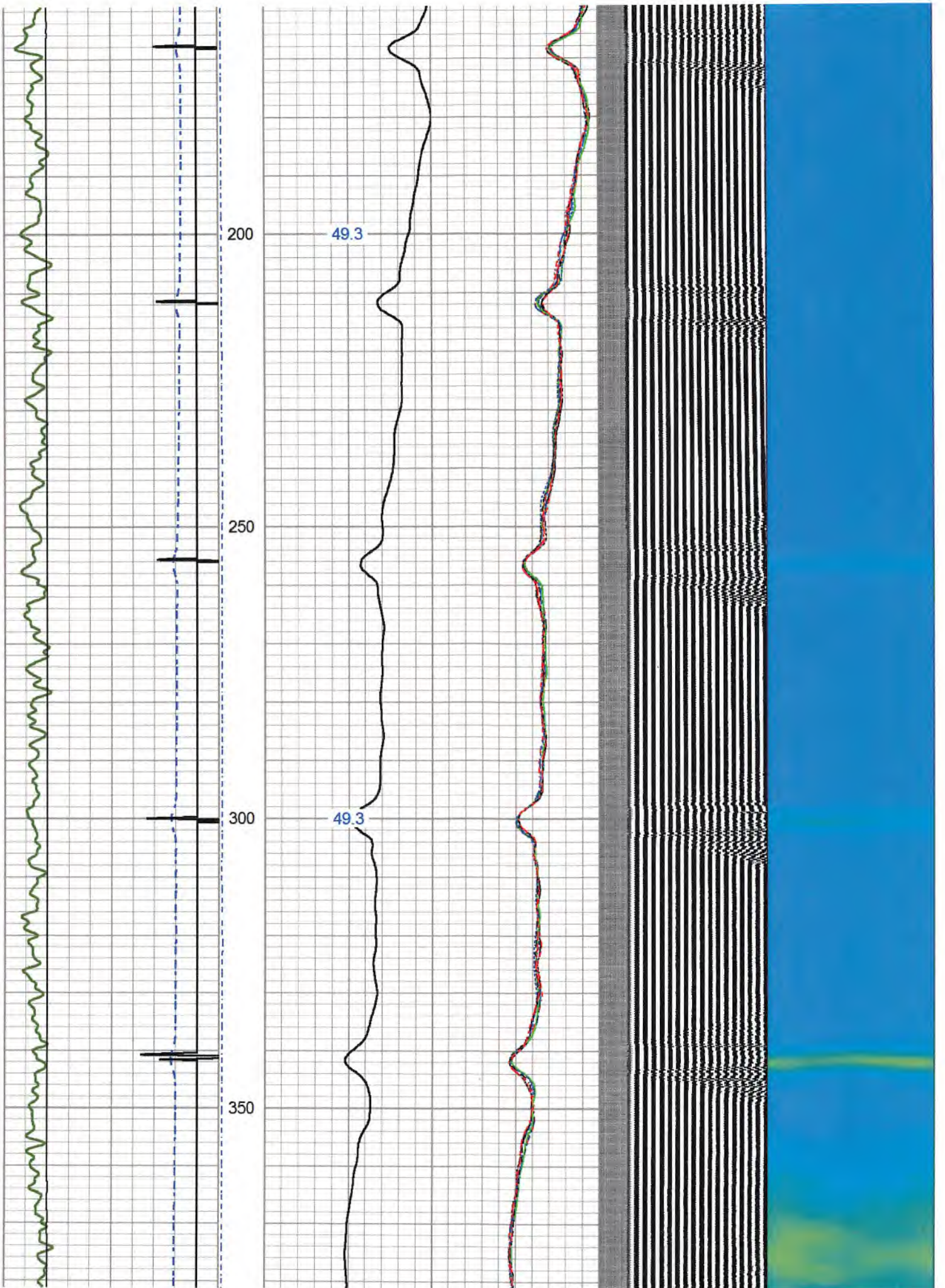
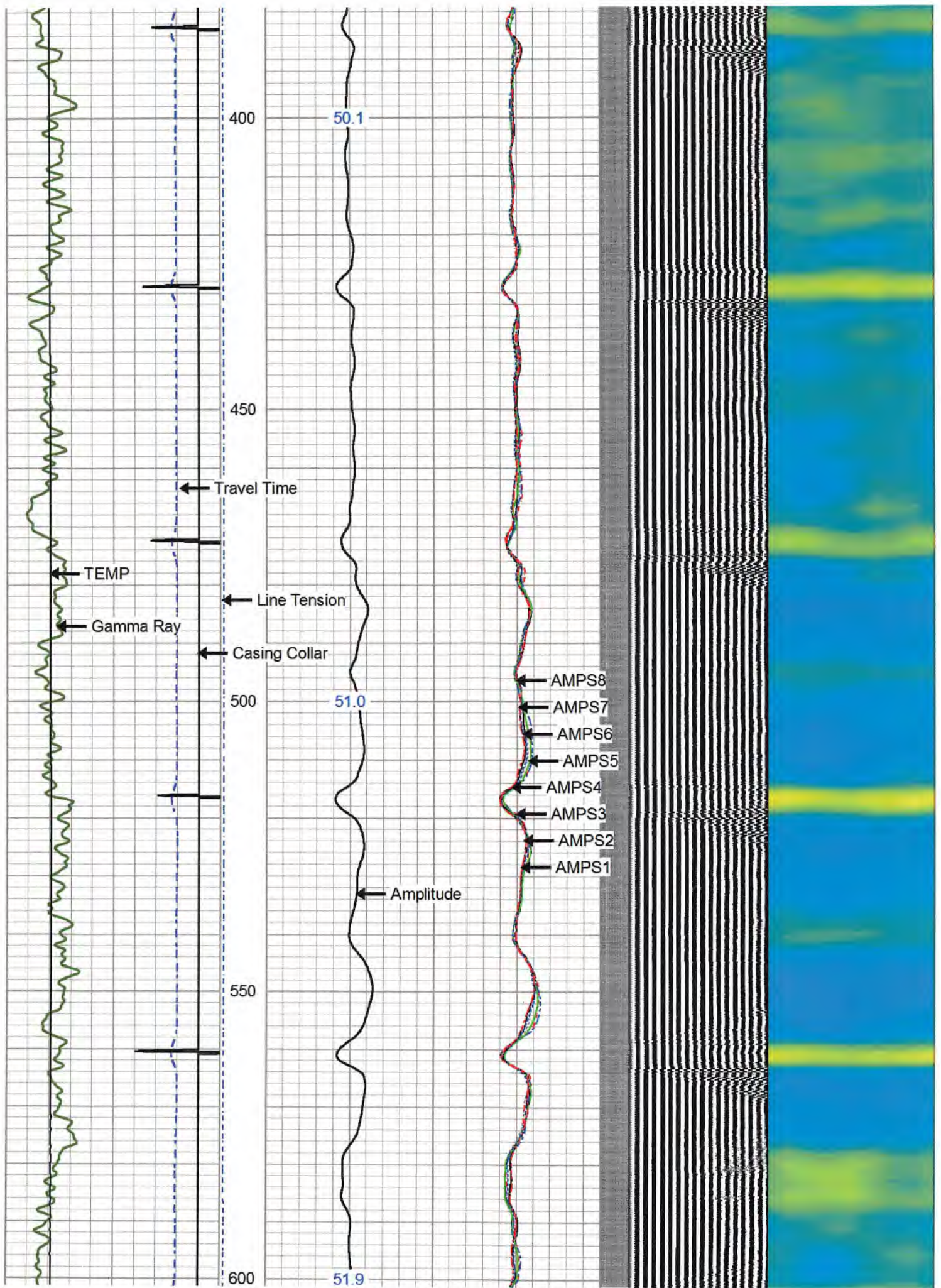


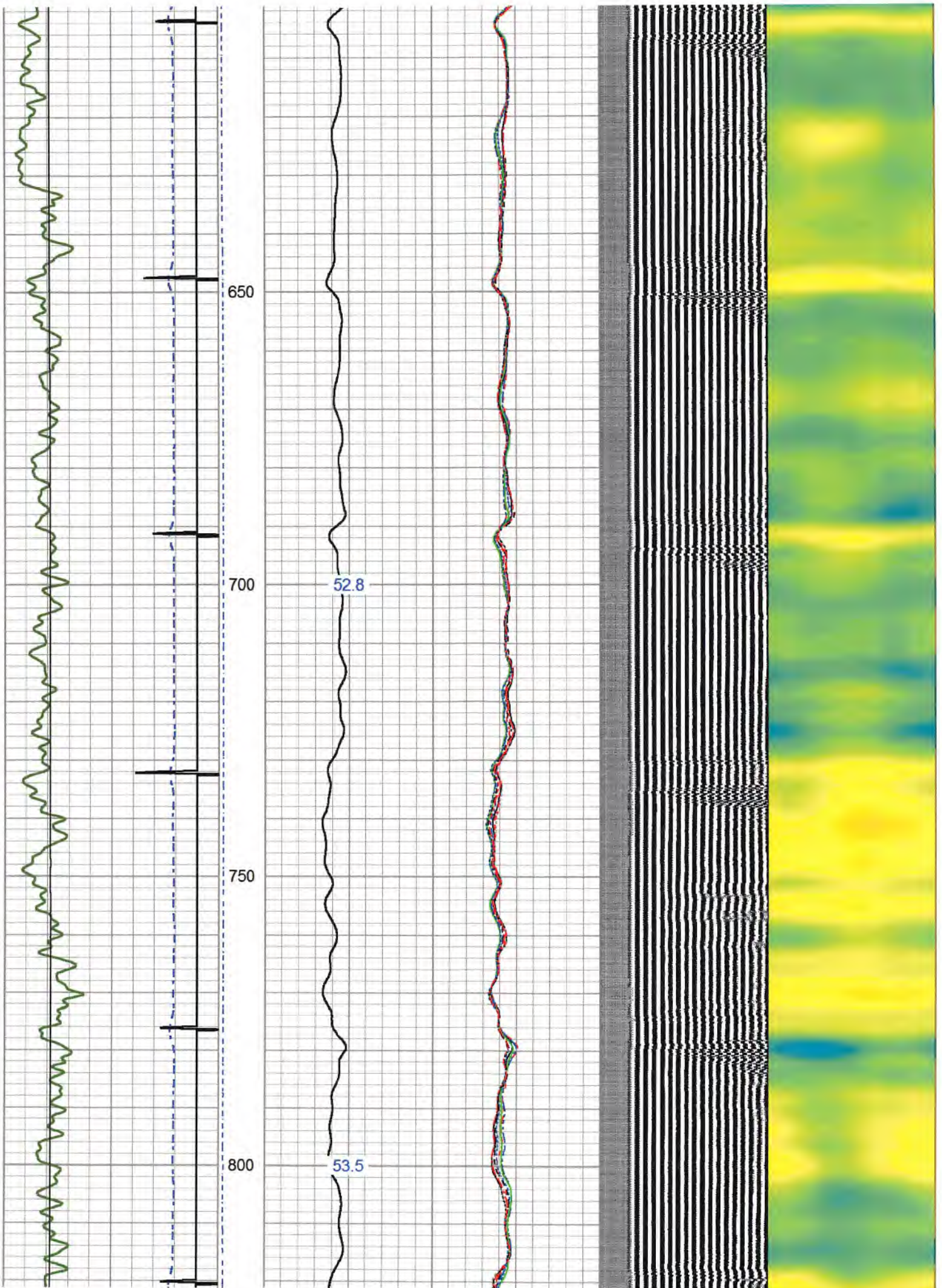
Database File 47-095-02391_packers_unit2h_rcbl_02282018.db
 Dataset Pathname pass8
 Presentation Format ahws_rcbl_jc
 Dataset Creation Wed Feb 28 15:46:37 2018
 Charted by Depth in Feet scaled 1:240

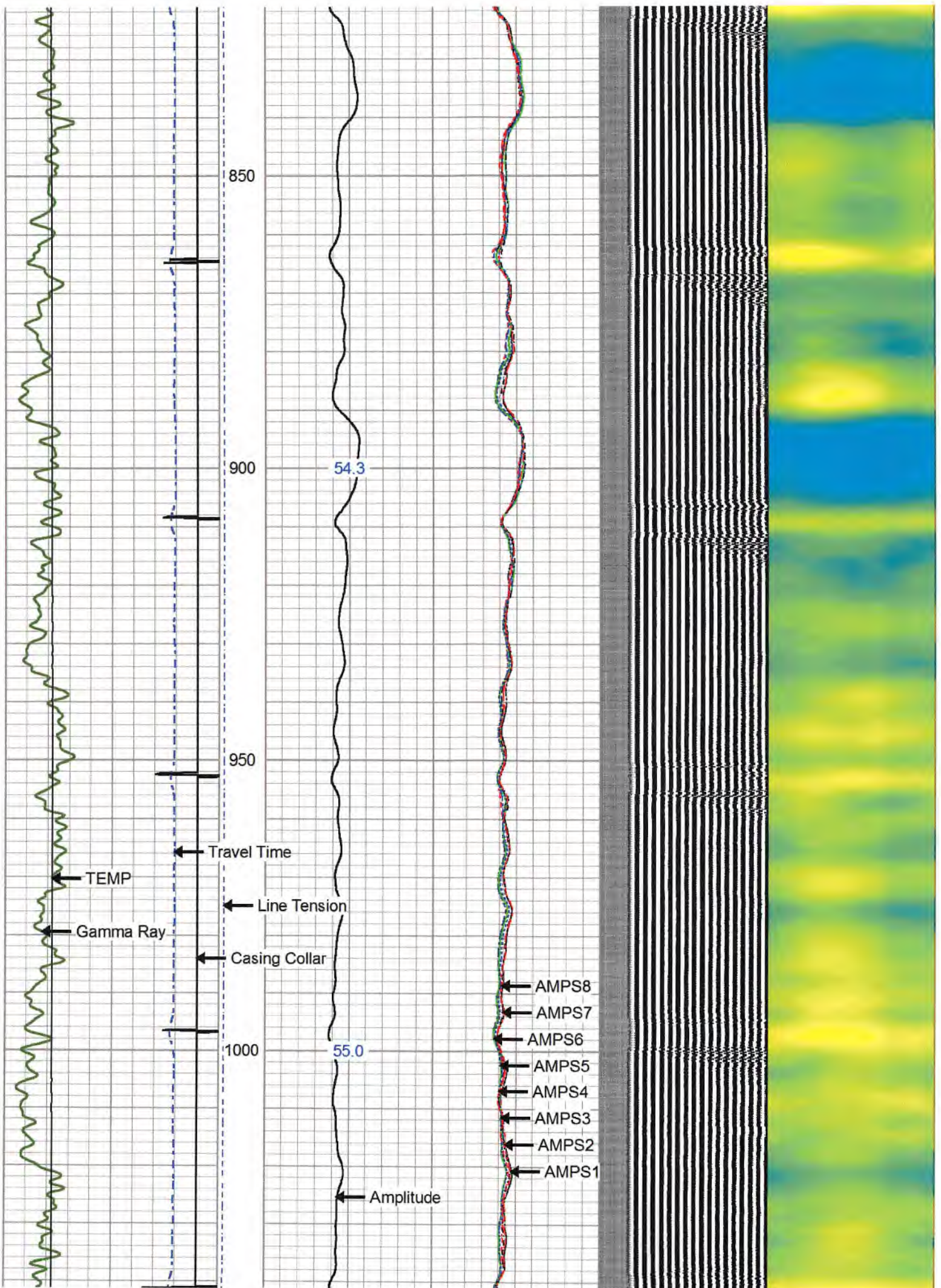
| | | | | | | | | | | | | | |
|-----|--------------------|-----|--------|---------------------|----------------|-------|-----|-------|-----|------------------|------|------------|-----|
| 420 | Travel Time (usec) | 220 | e Tens | 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 | Variable Density | 1 | Cement Map | 8 |
| 9 | Casing Collar | -1 | (lb) | Amplified Amplitude | -5 | AMPS2 | 150 | 200 | (V) | | 1200 | 0 | 100 |
| 0 | Gamma Ray (GAPI) | 300 | (2500) | 0 | (mV) | 10 | -5 | AMPS3 | 150 | | | | |
| 0 | TEMP (degF) | 250 | | TEMP | -5 | AMPS4 | 150 | | | | | | |
| | | | | (degF) | -5 | AMPS5 | 150 | | | | | | |
| | | | | | -5 | AMPS6 | 150 | | | | | | |
| | | | | | -5 | AMPS7 | 150 | | | | | | |
| | | | | | -5 | AMPS8 | 150 | | | | | | |
| | | | | | -5 | AMPS8 | 150 | | | | | | |
| | | | | | -5 | AMPS8 | 150 | | | | | | |

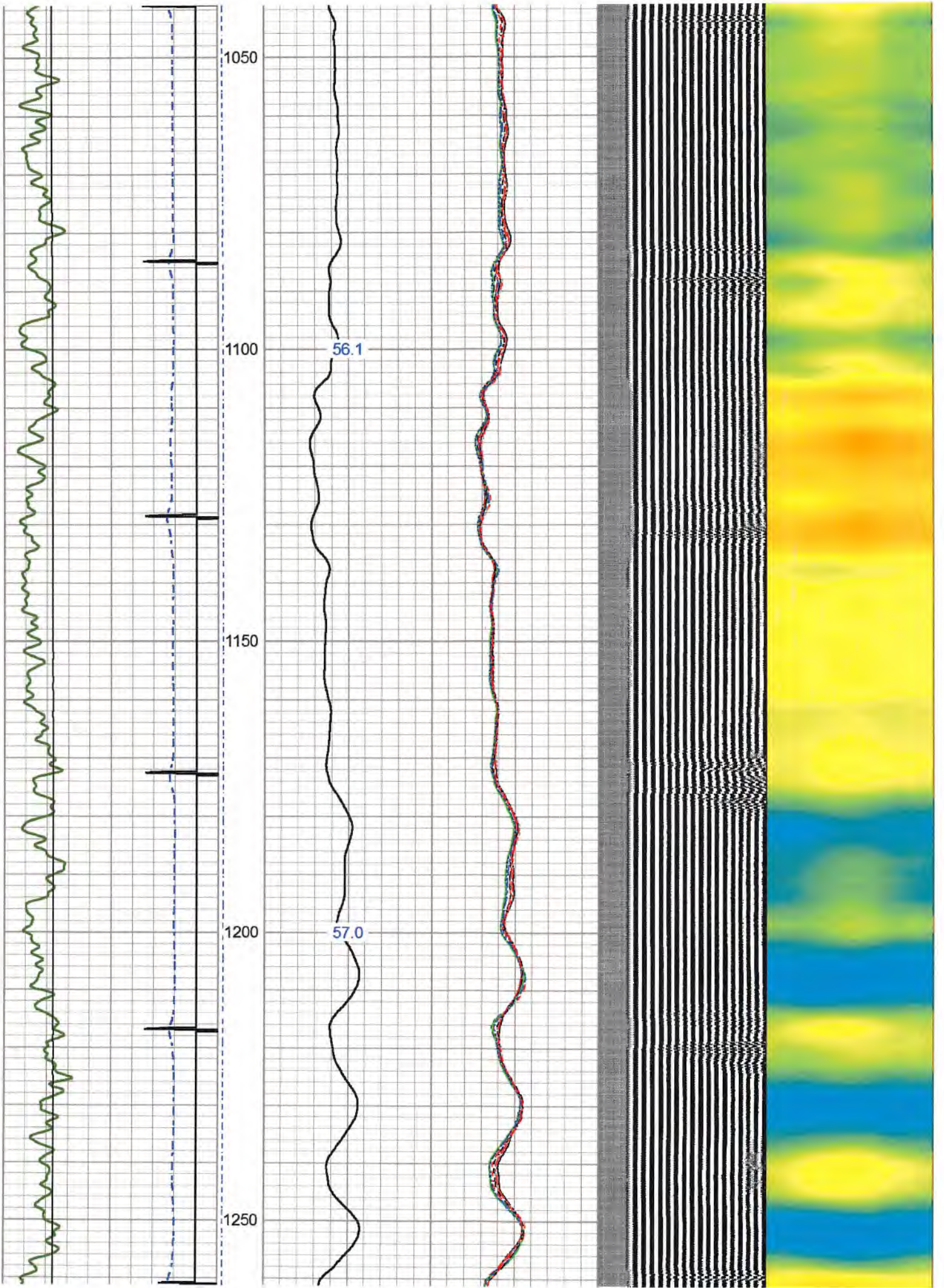


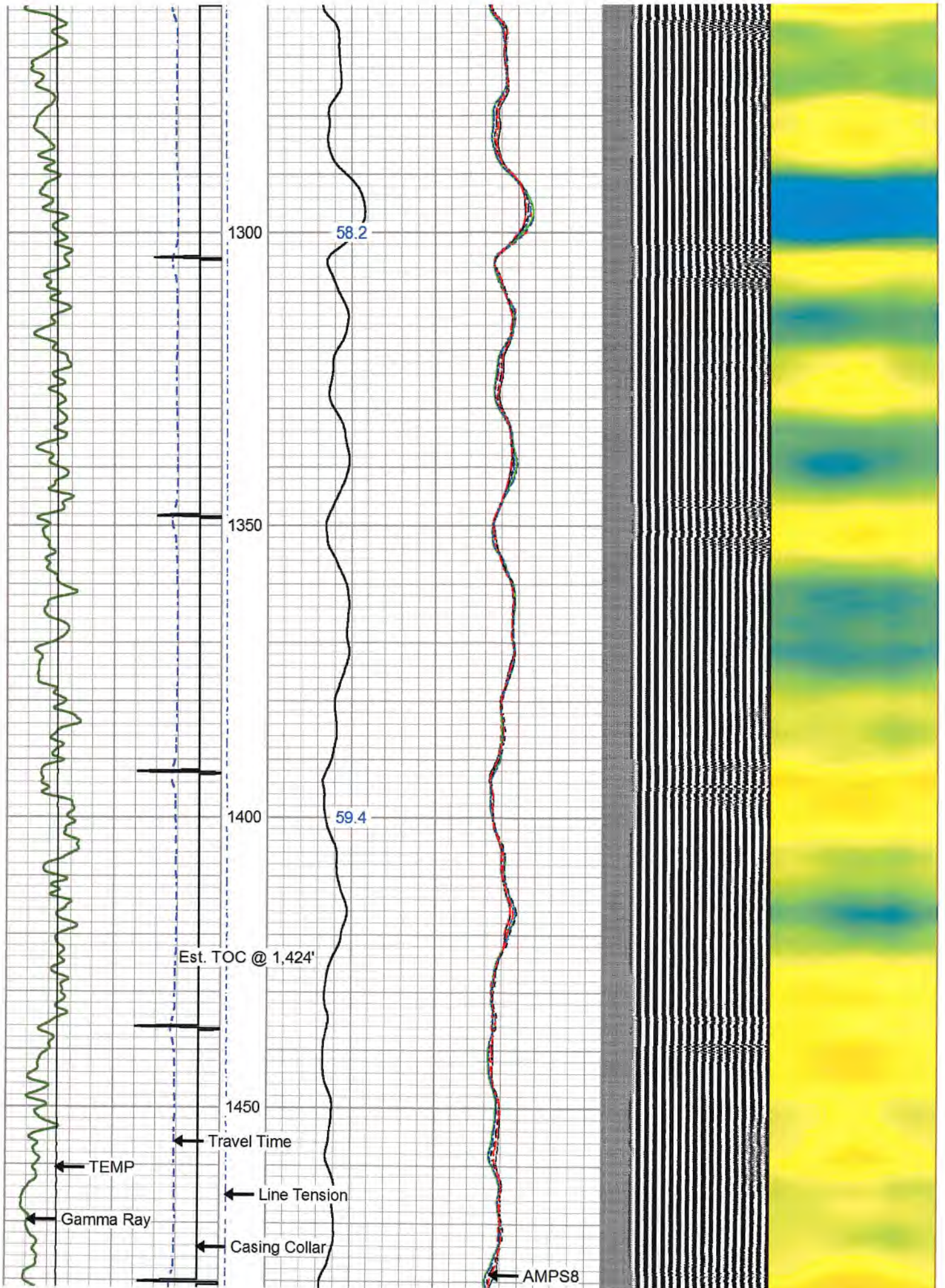


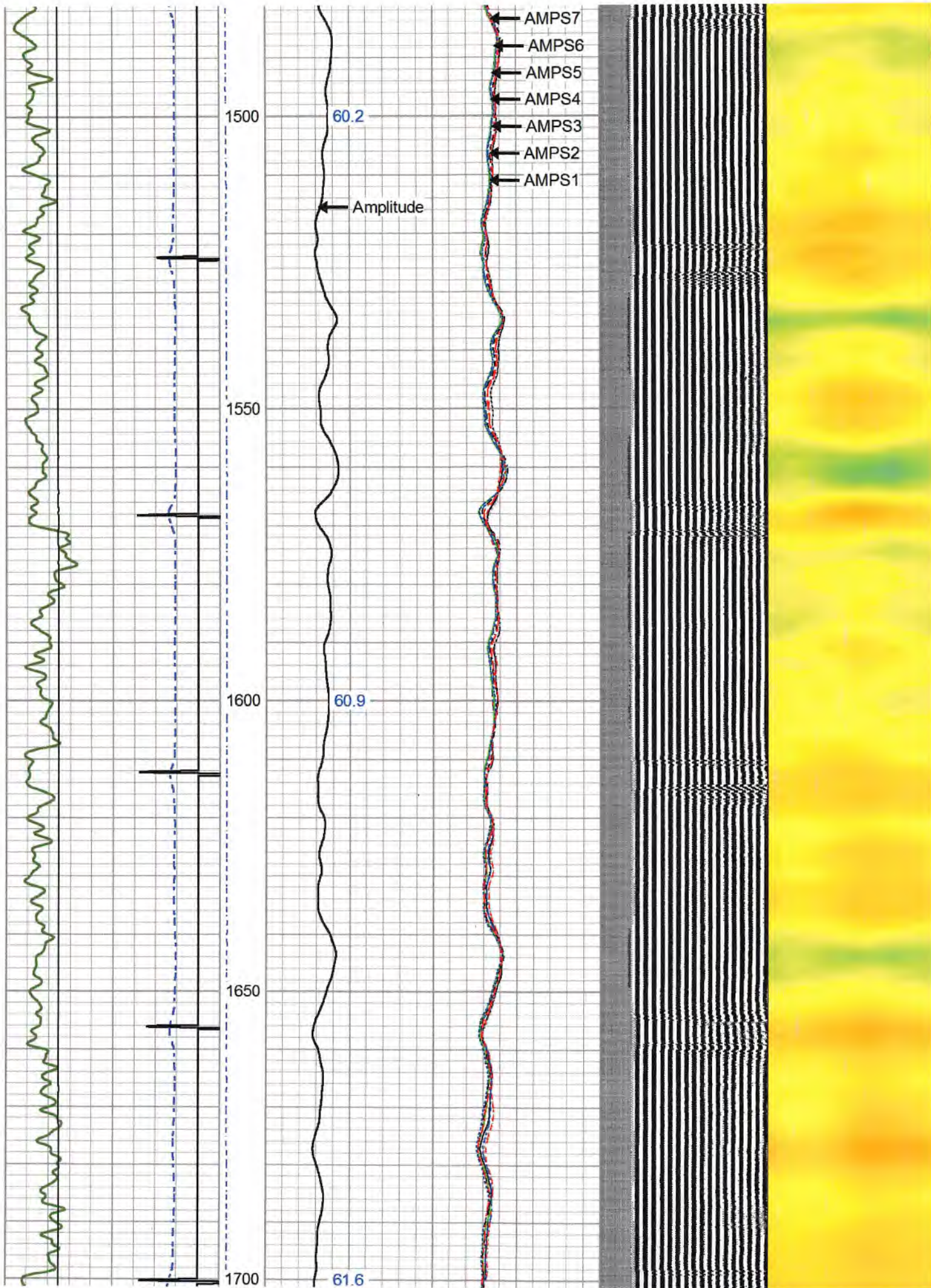


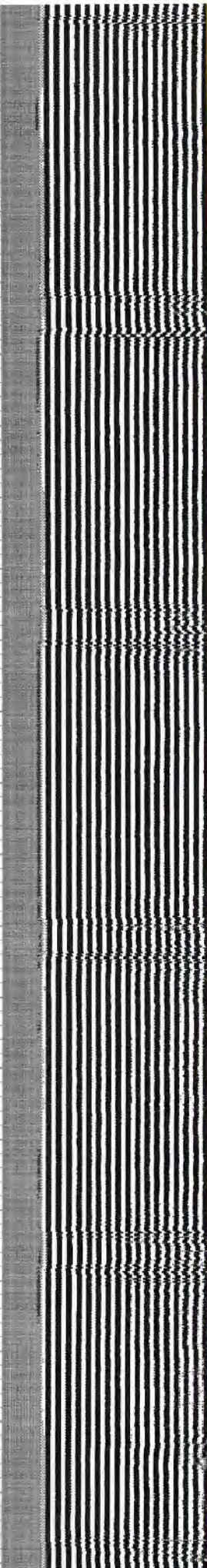
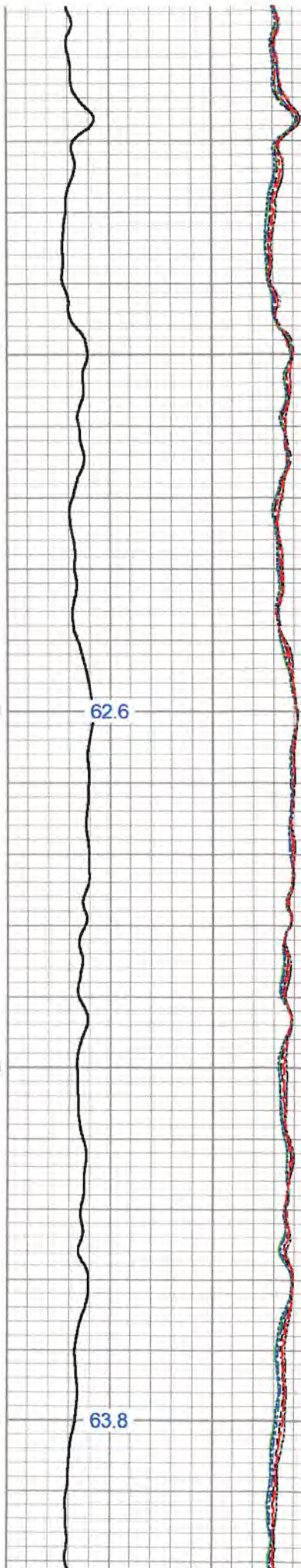
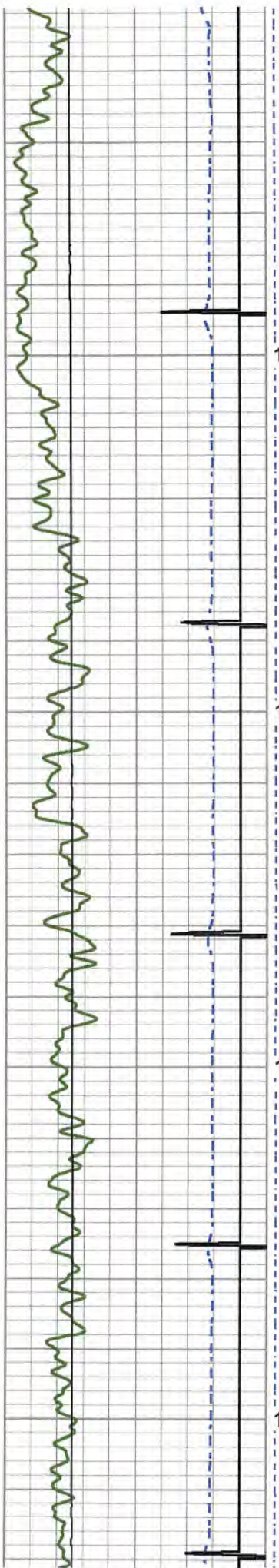


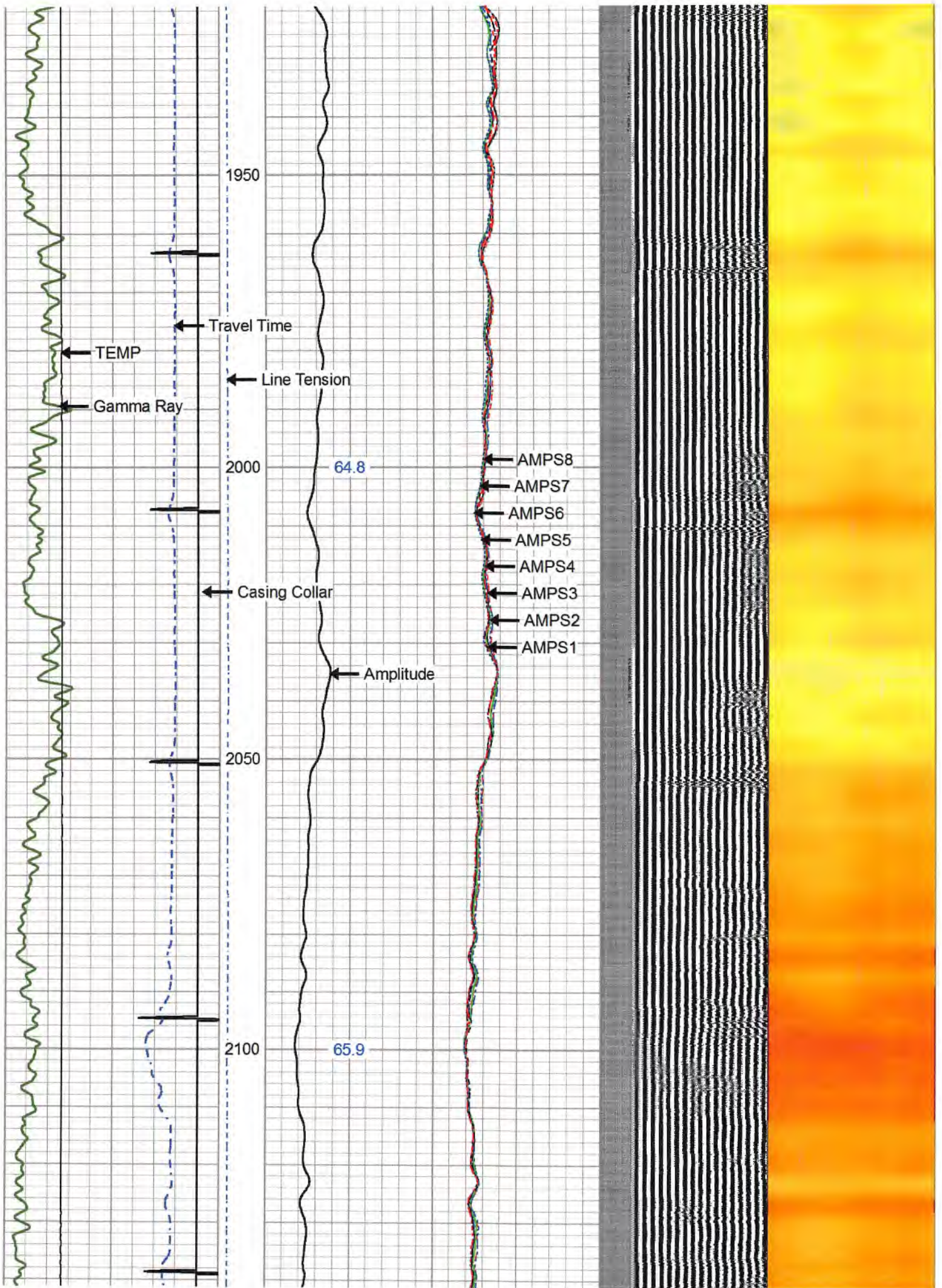


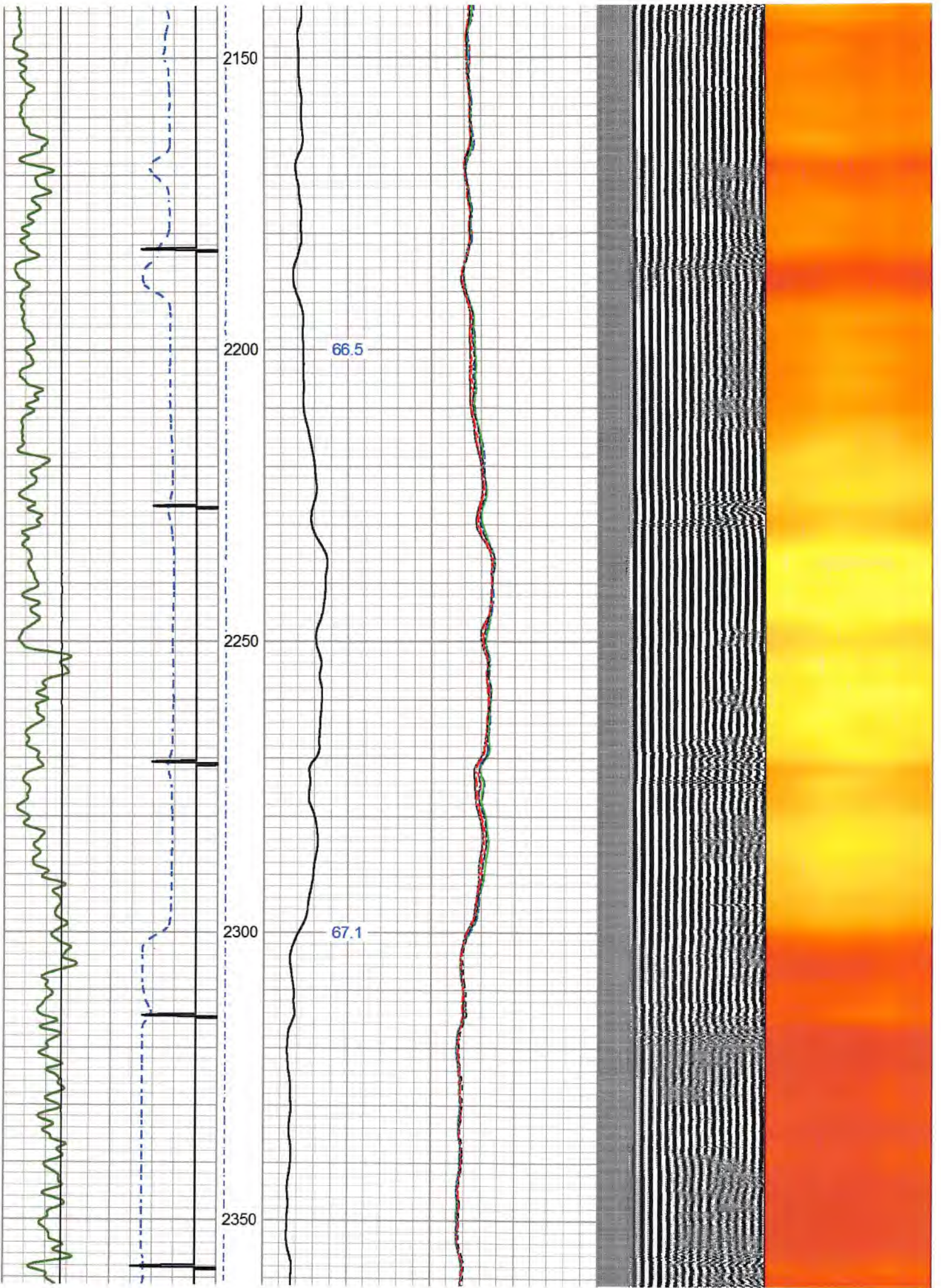


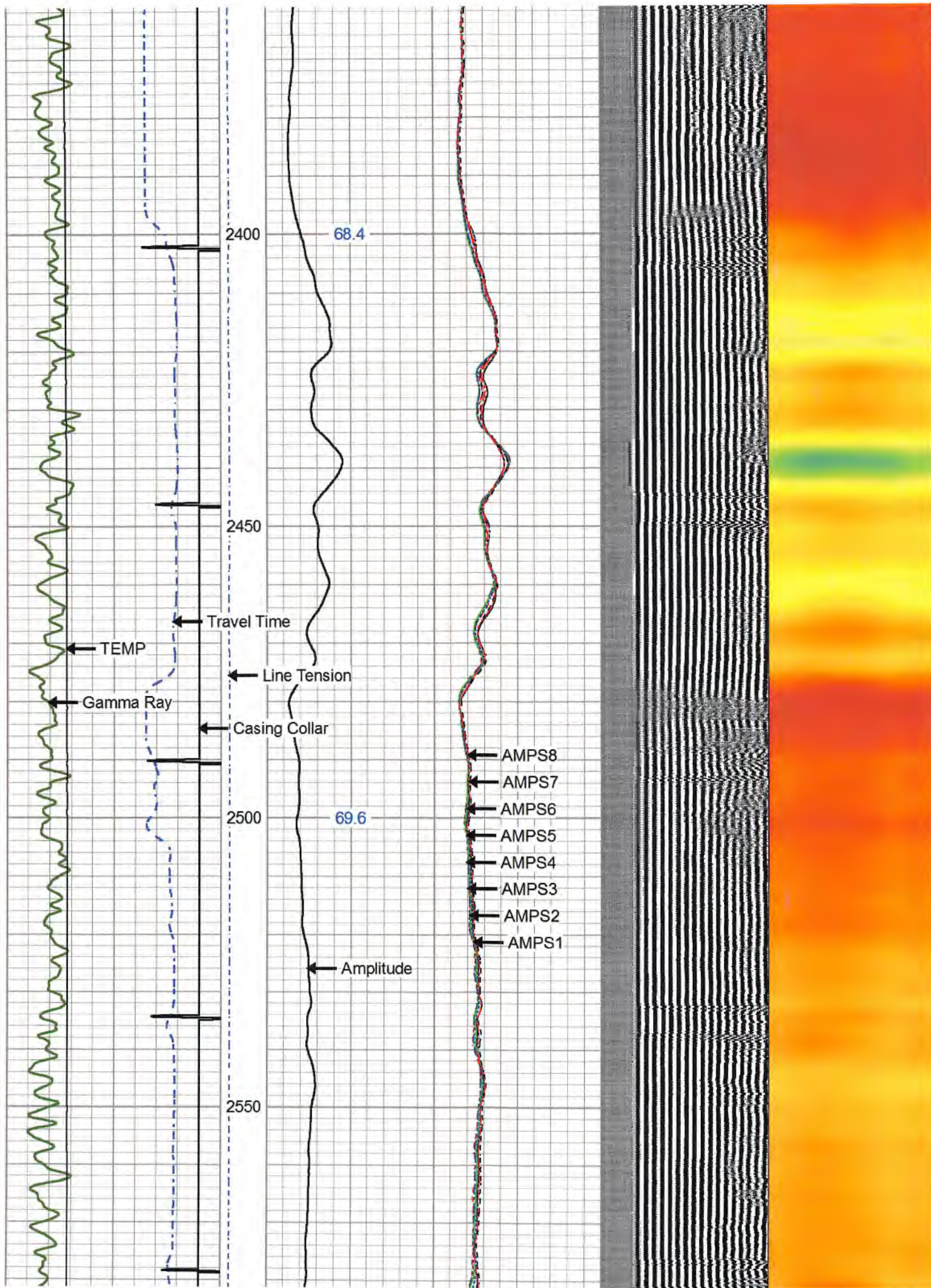


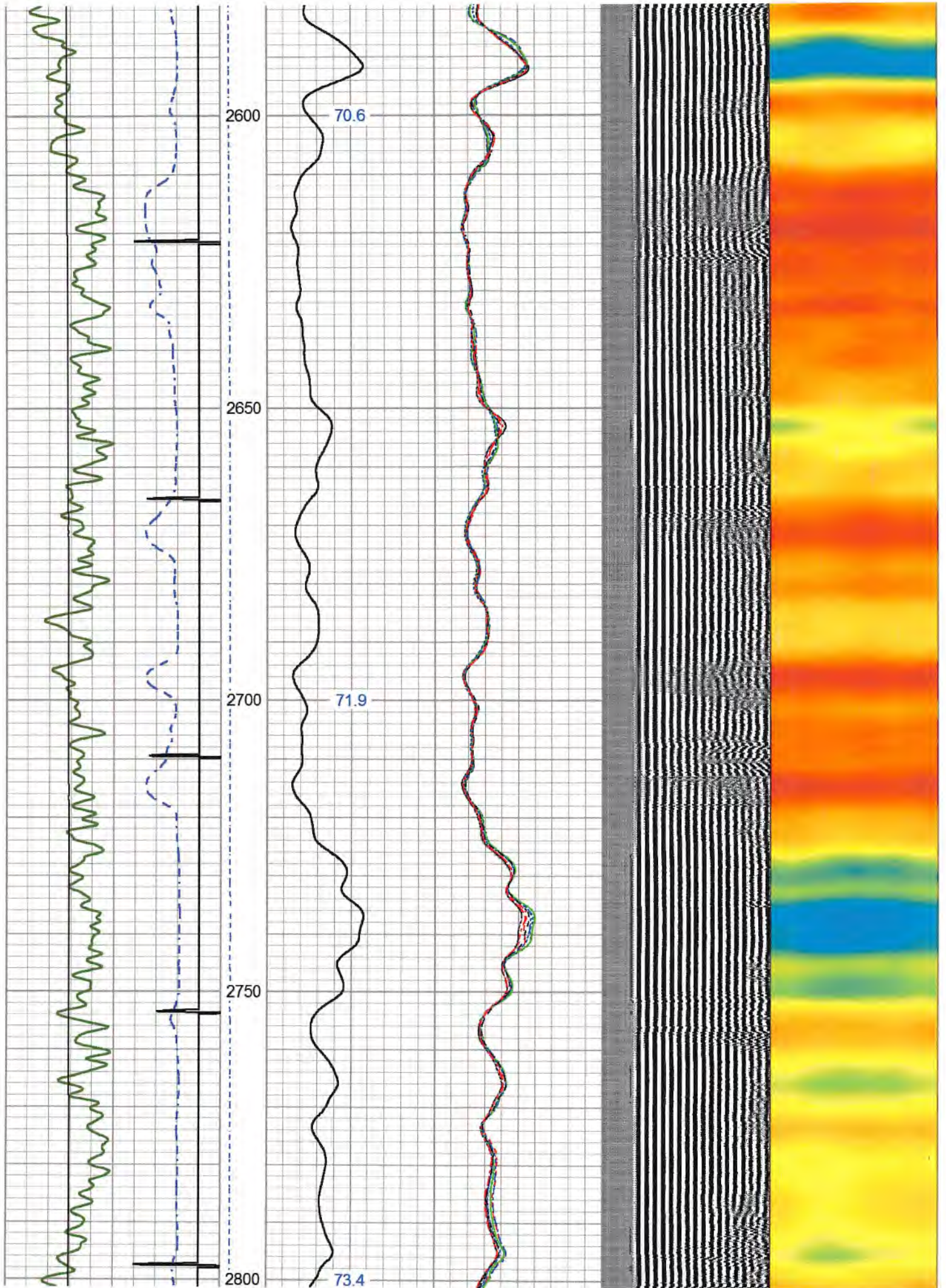


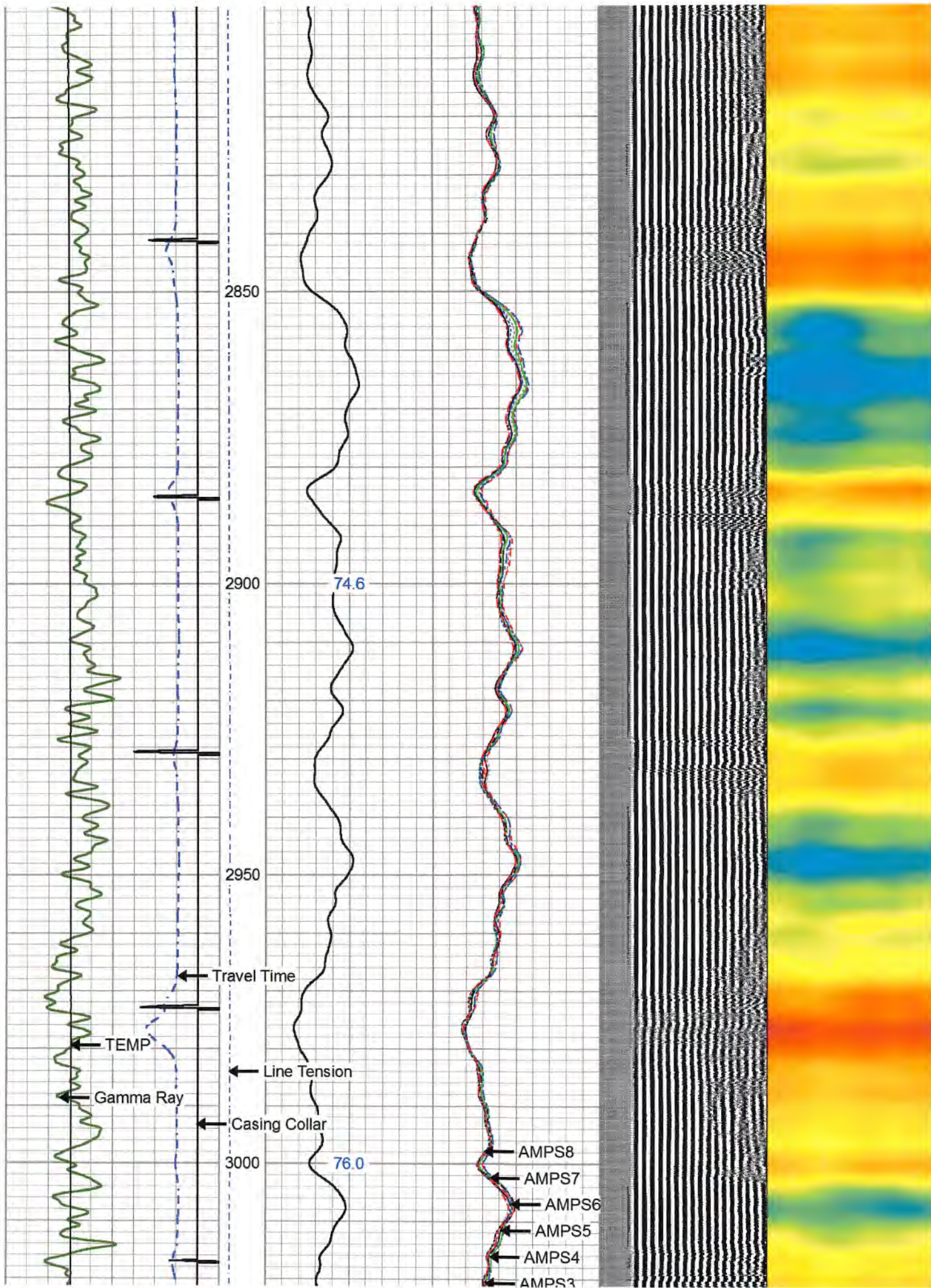


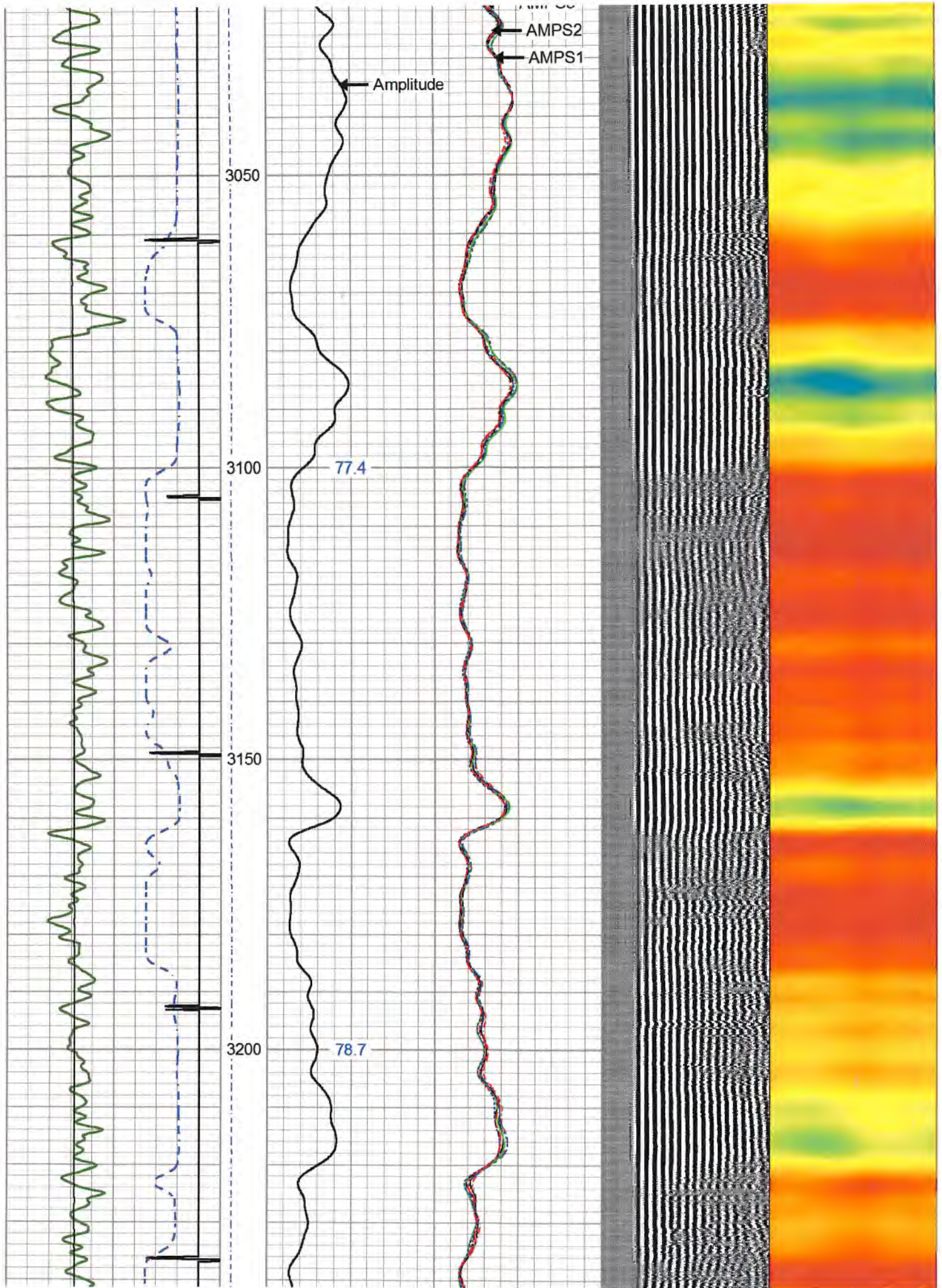


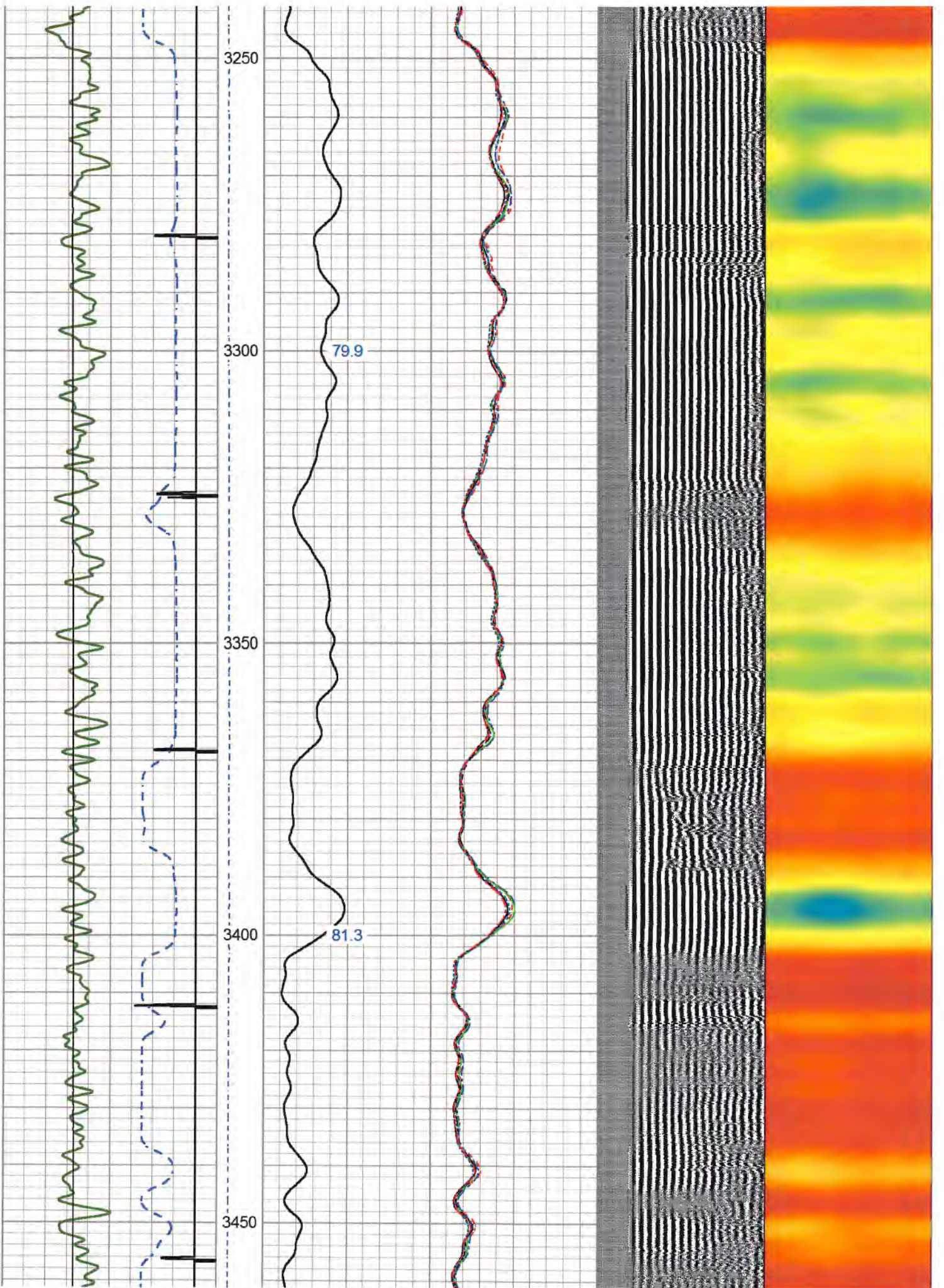


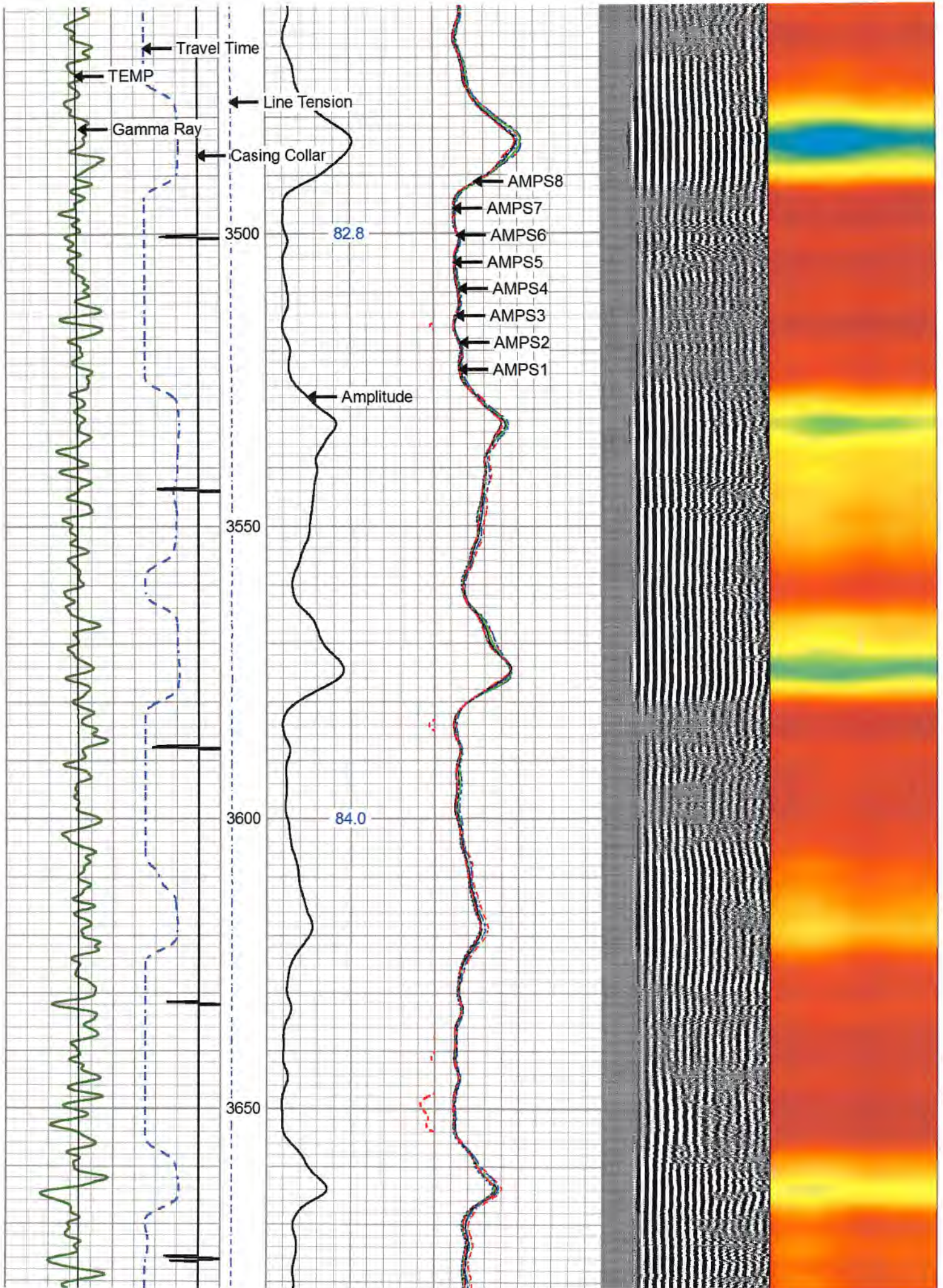


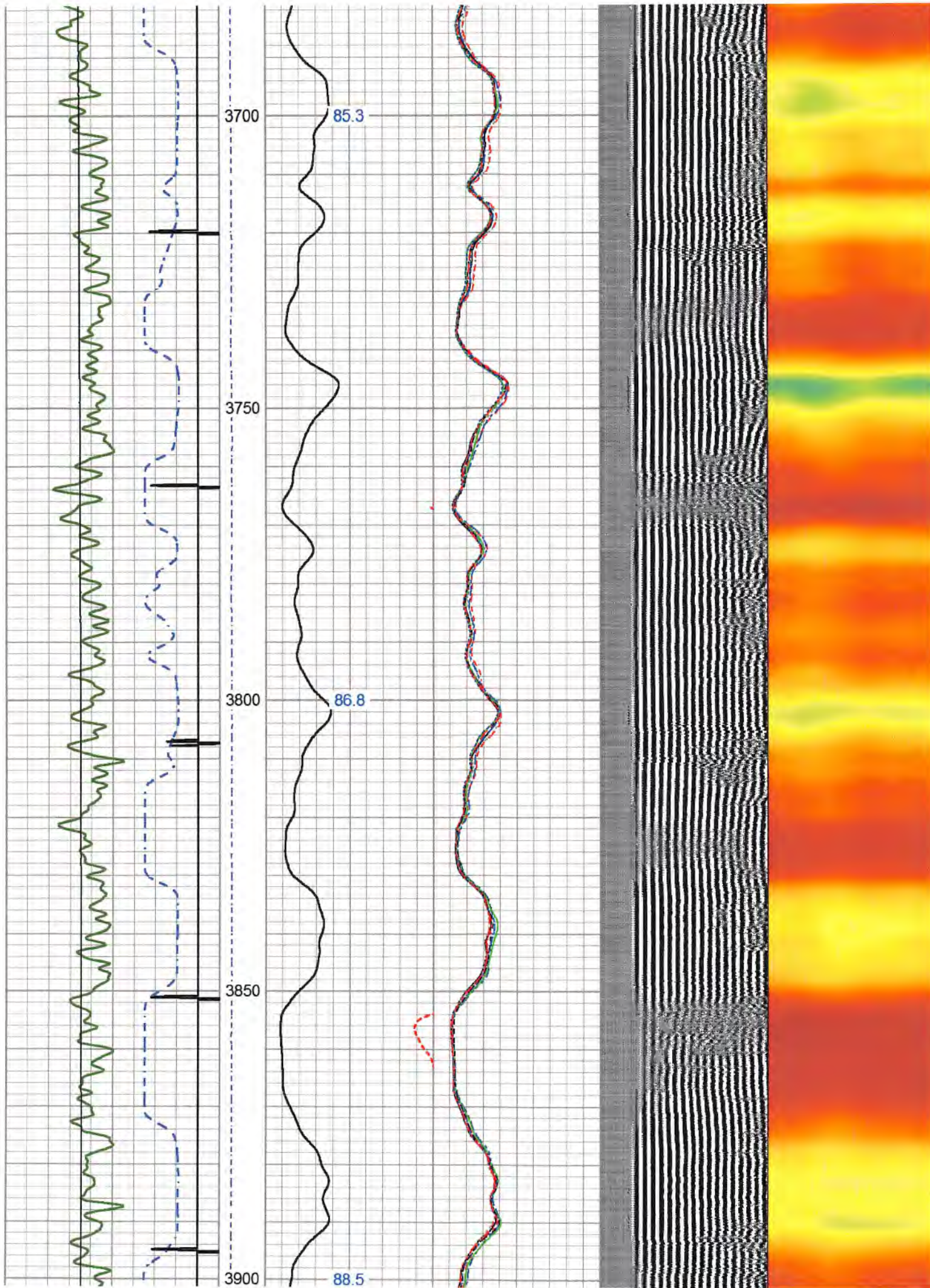


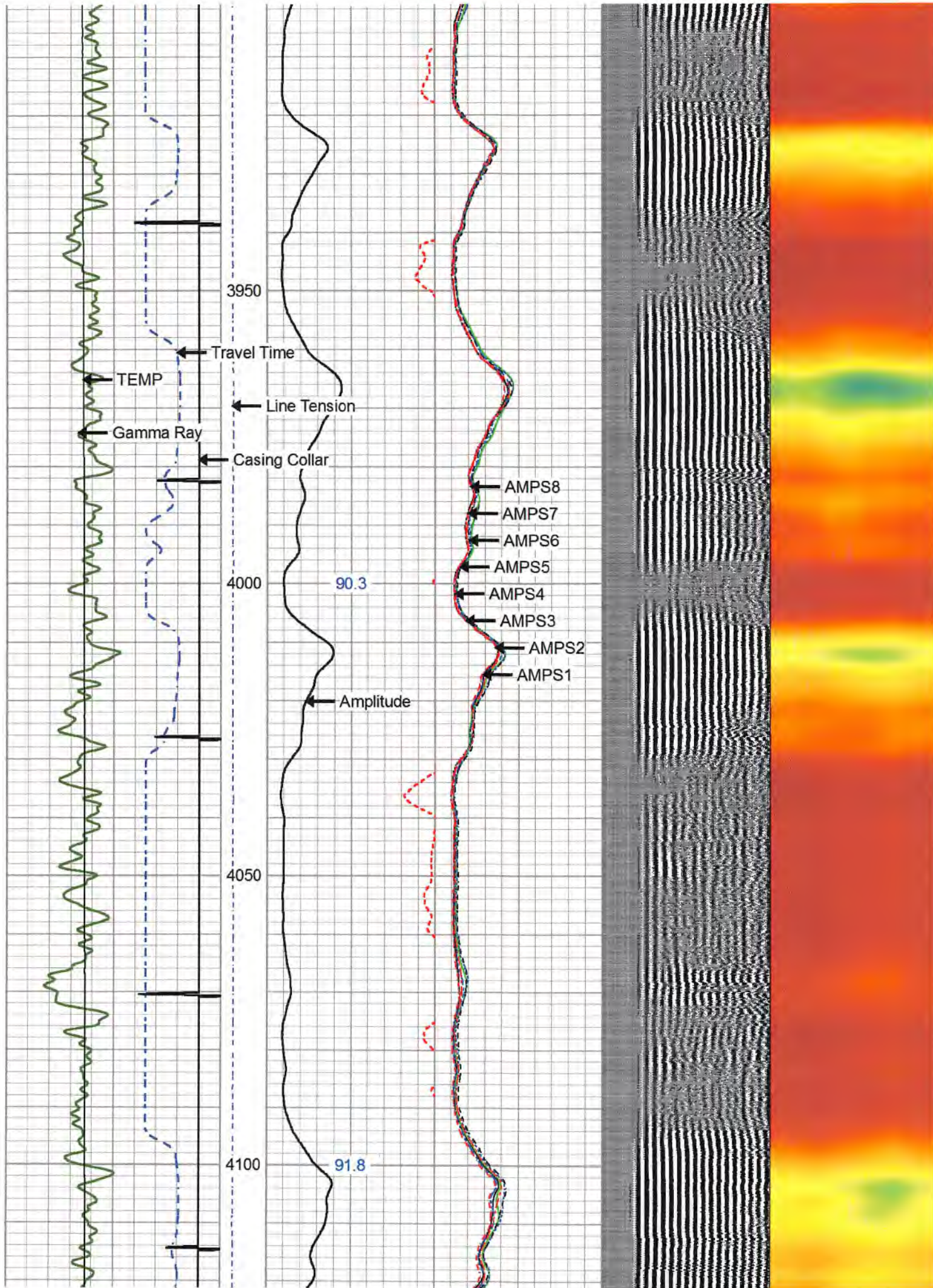


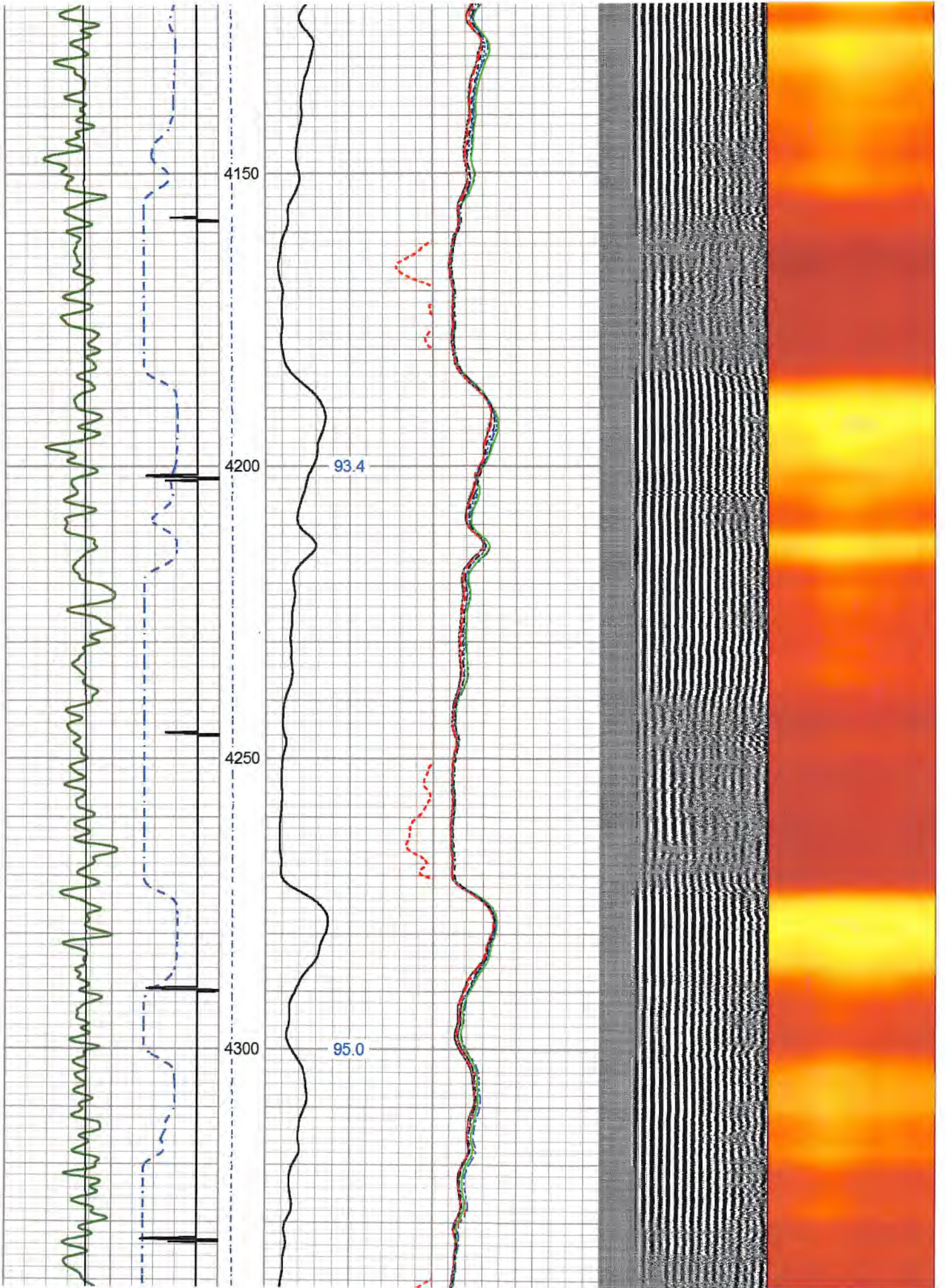


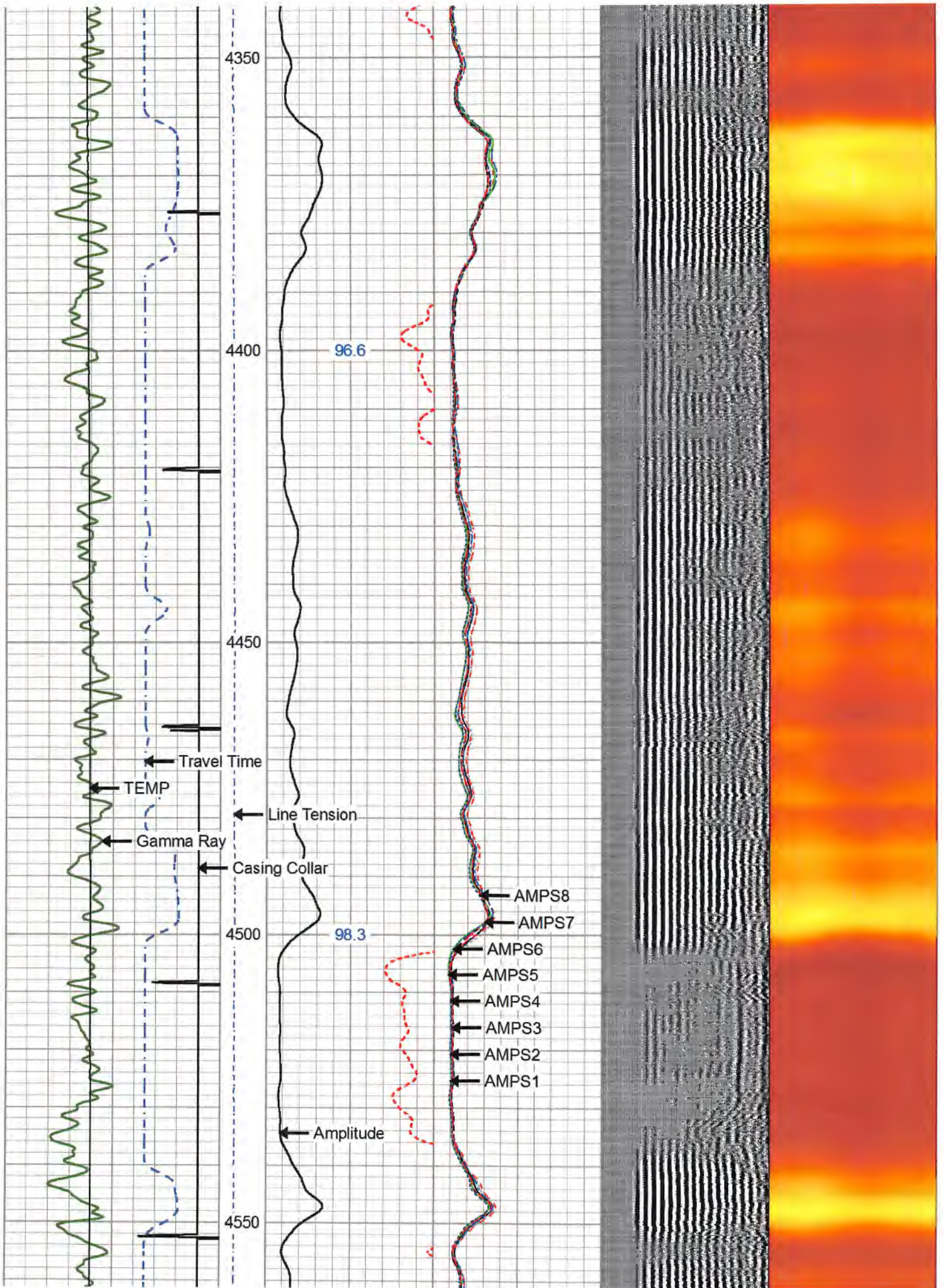


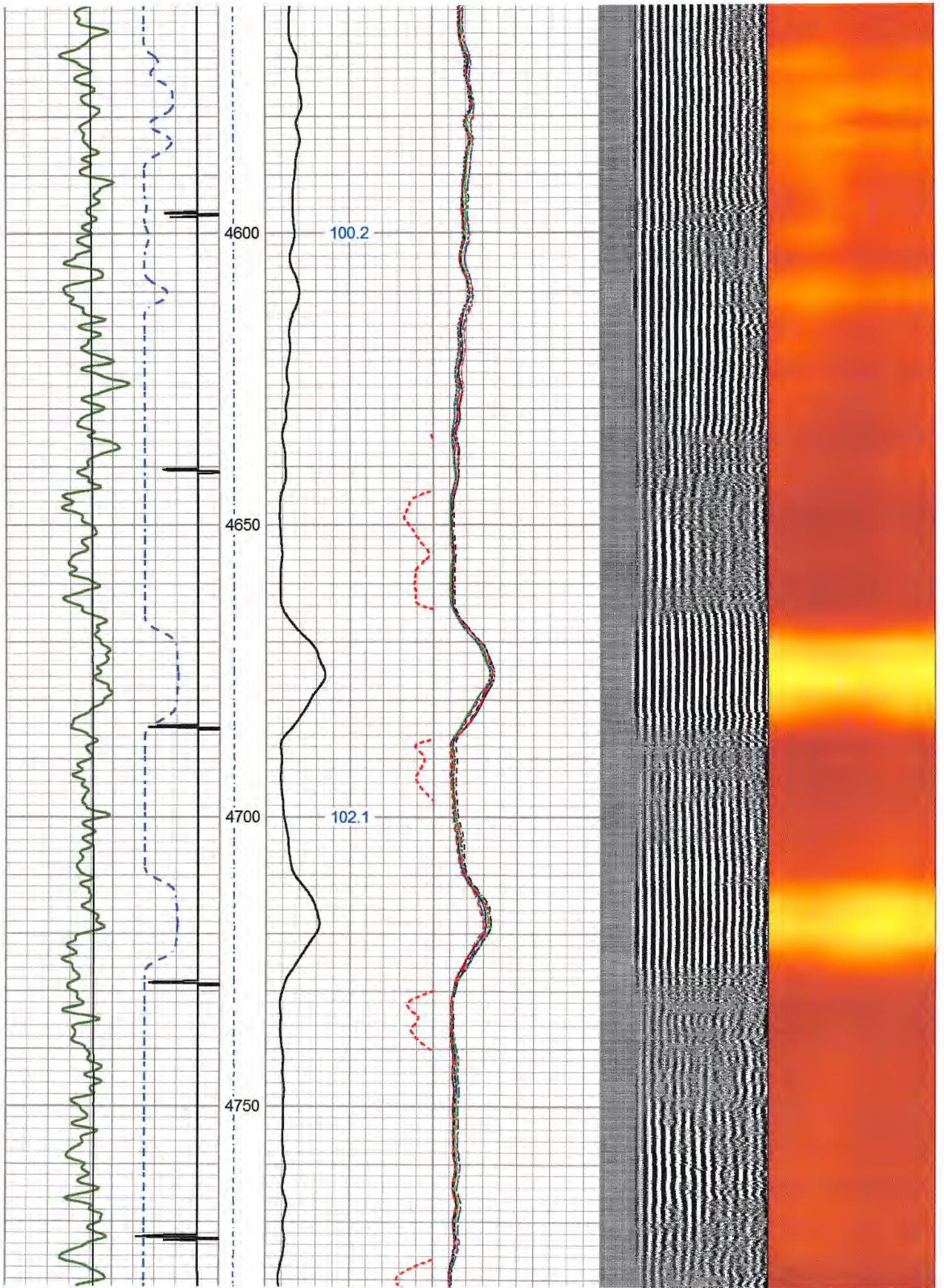


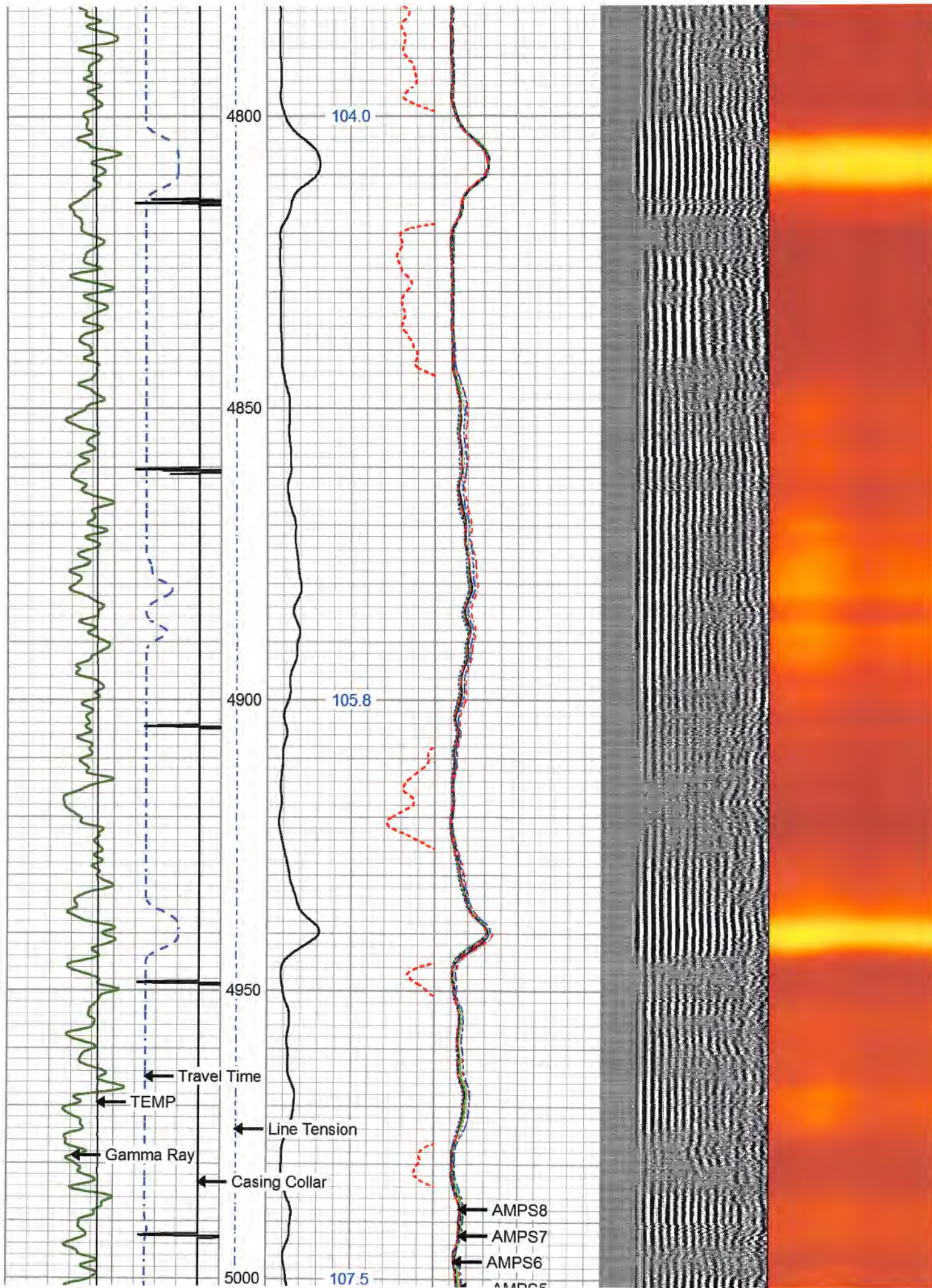


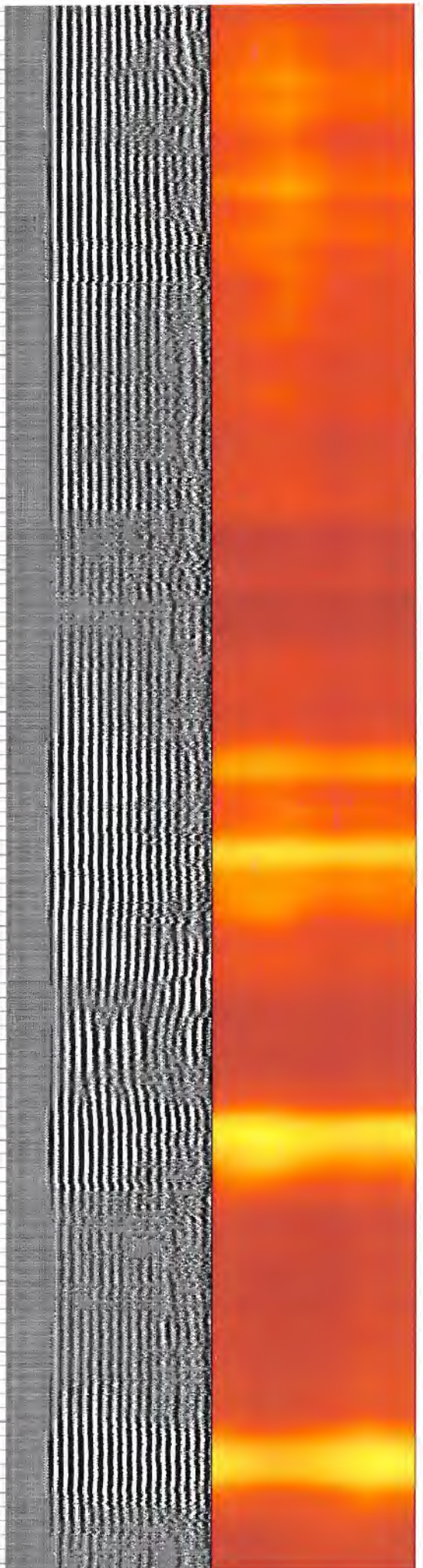
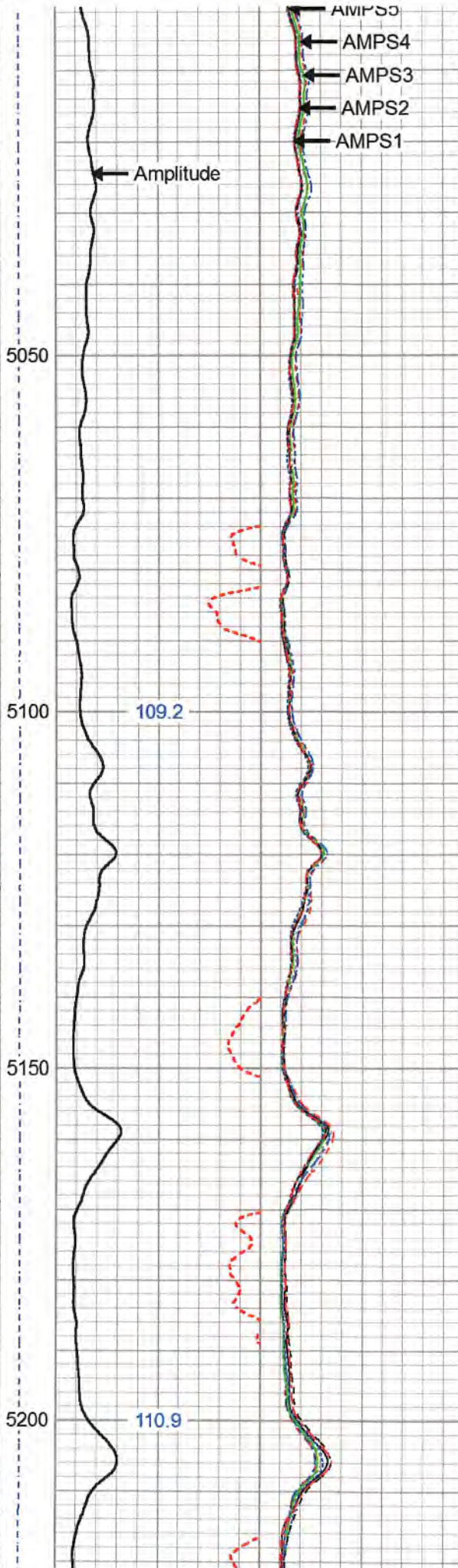
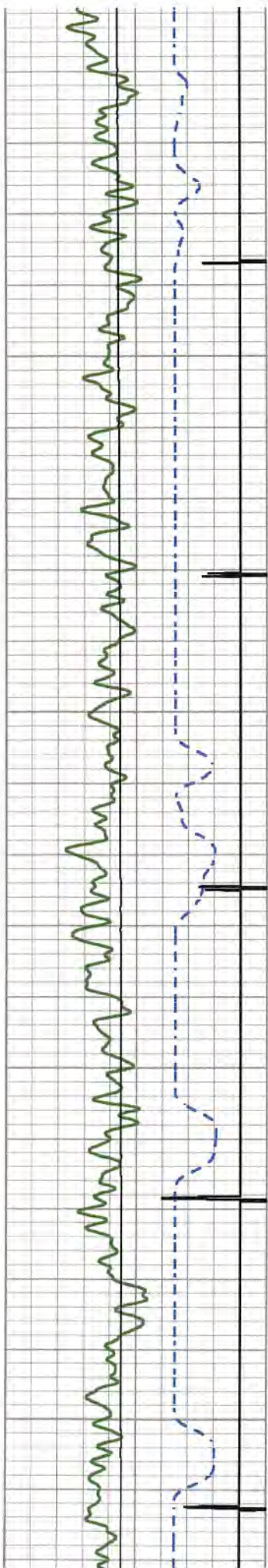


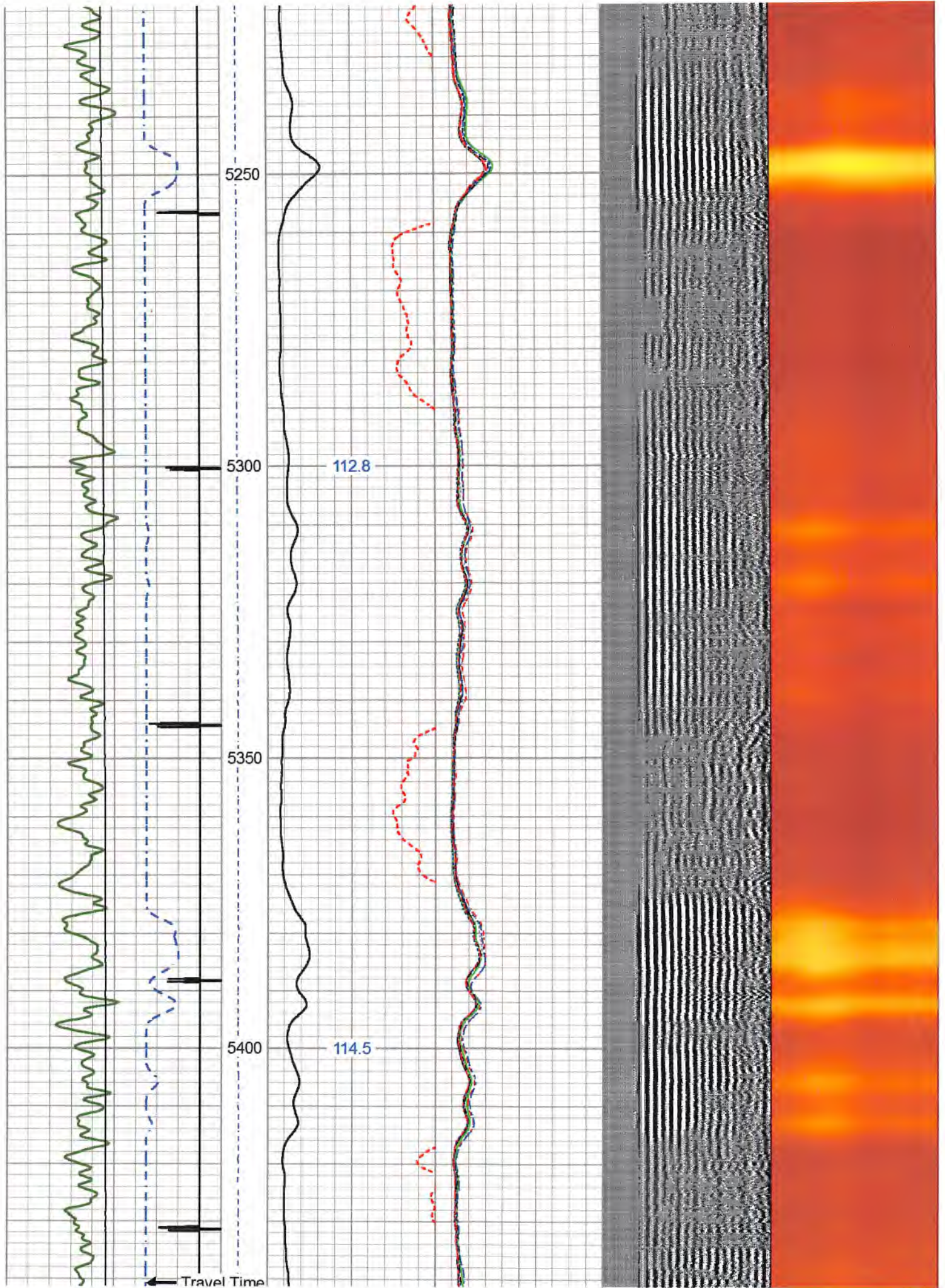


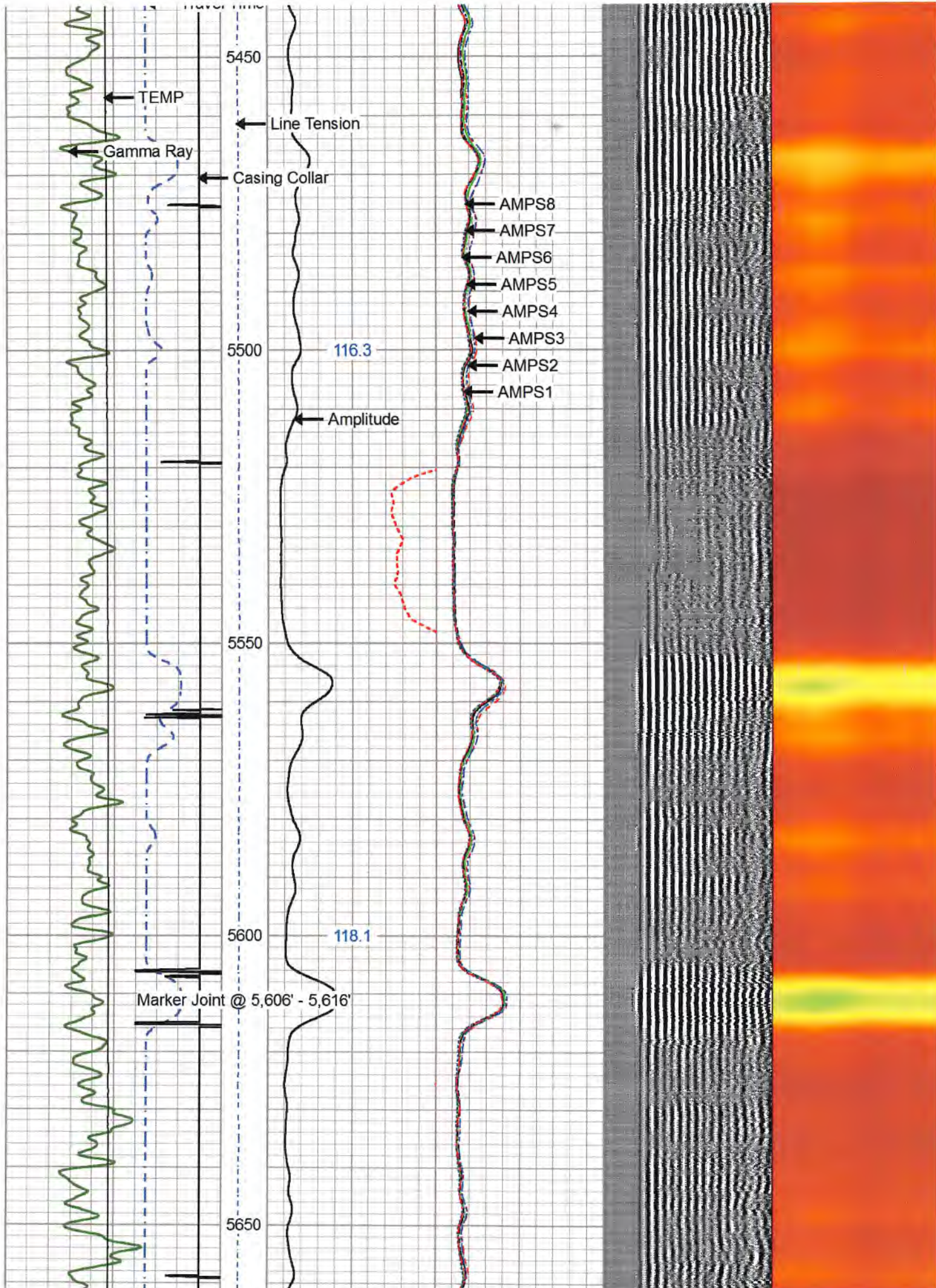


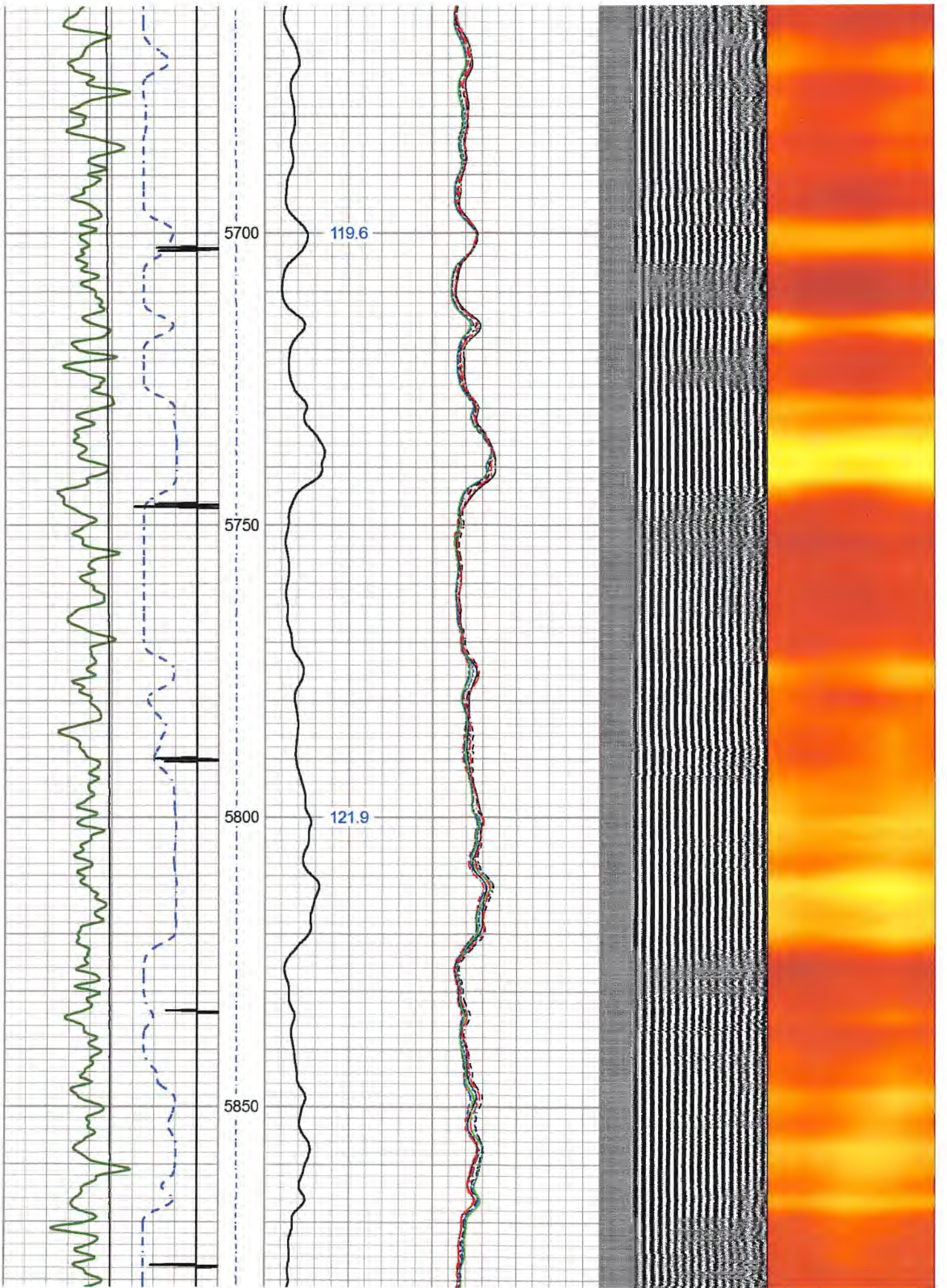


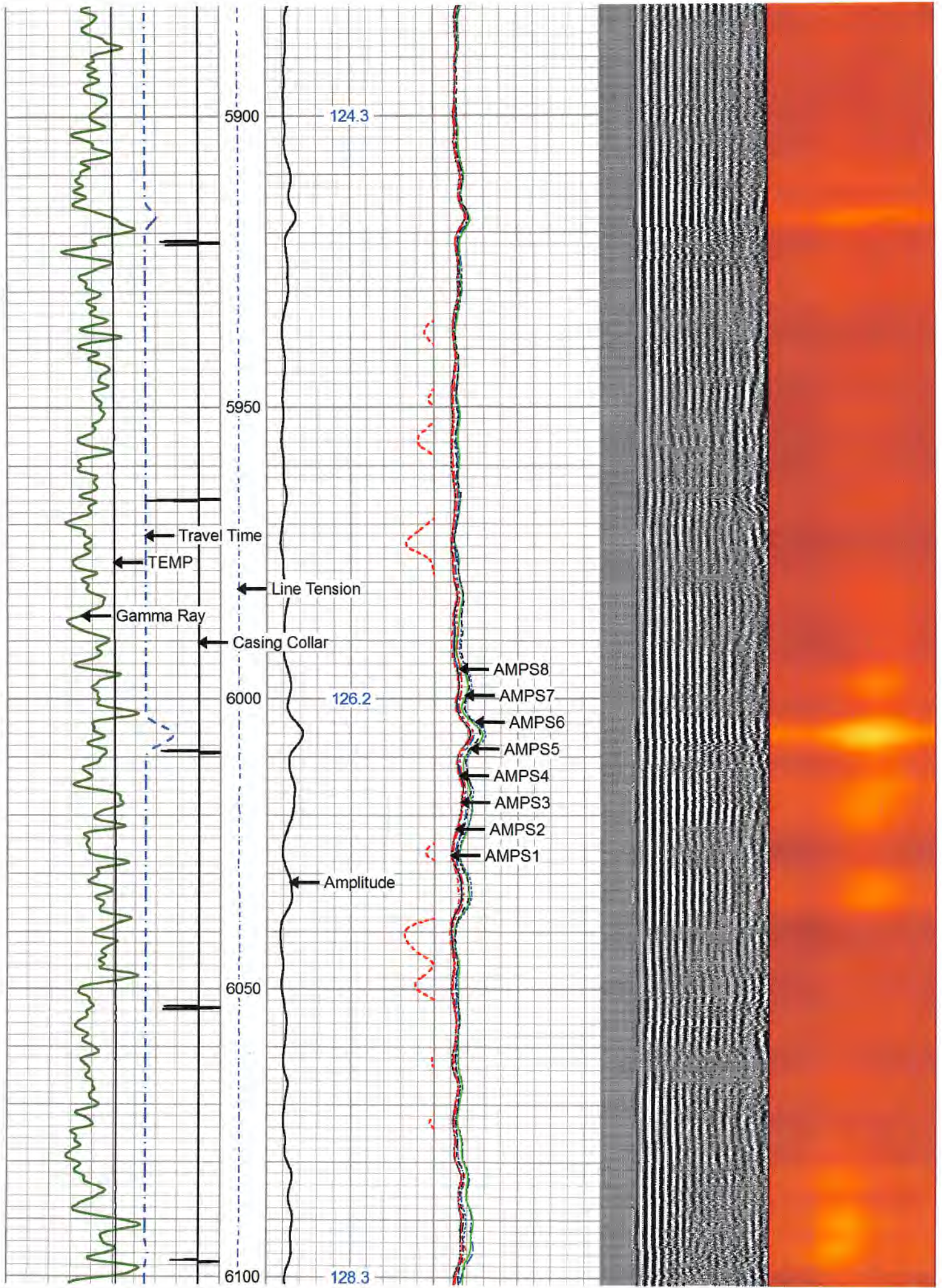


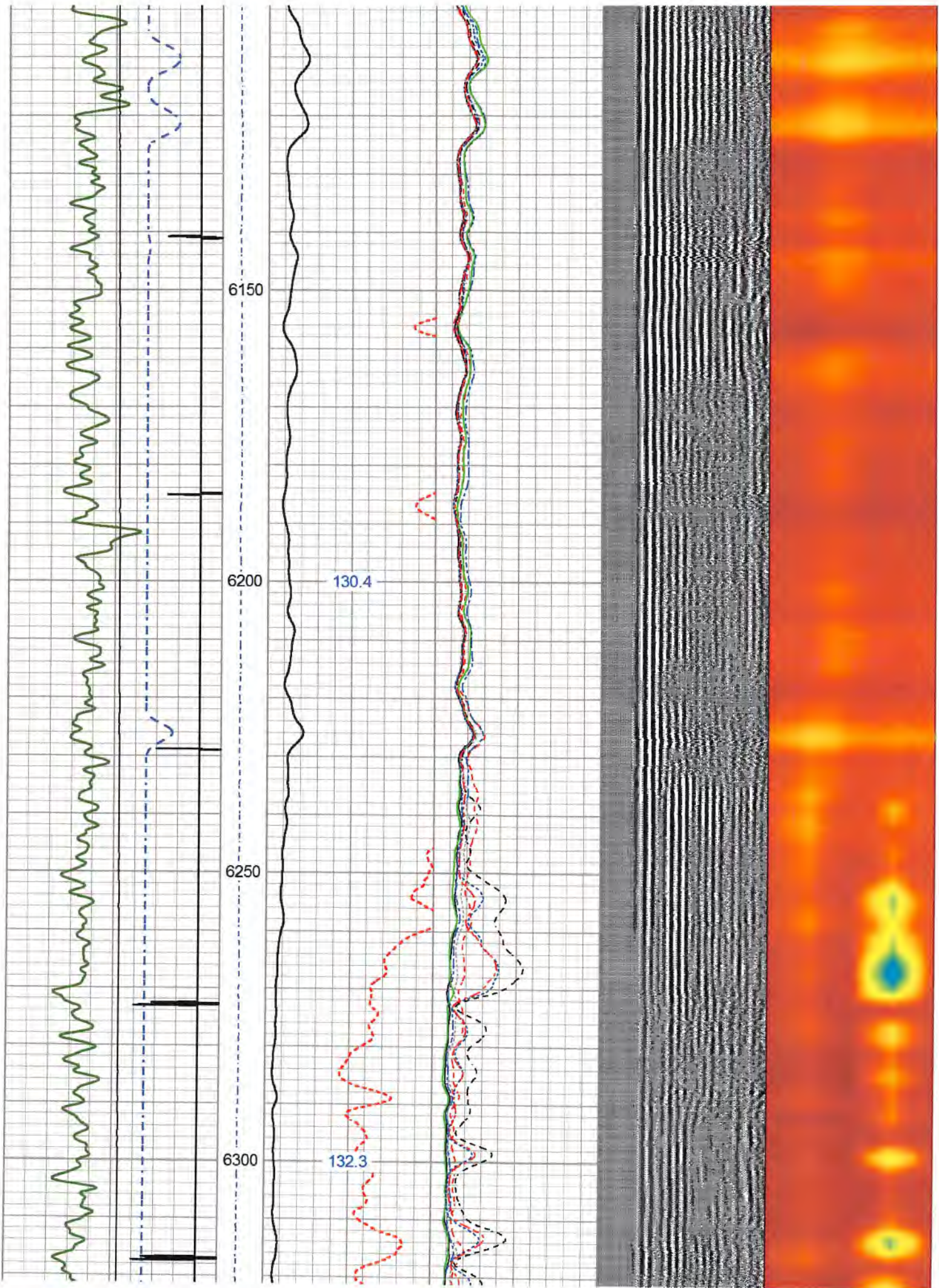


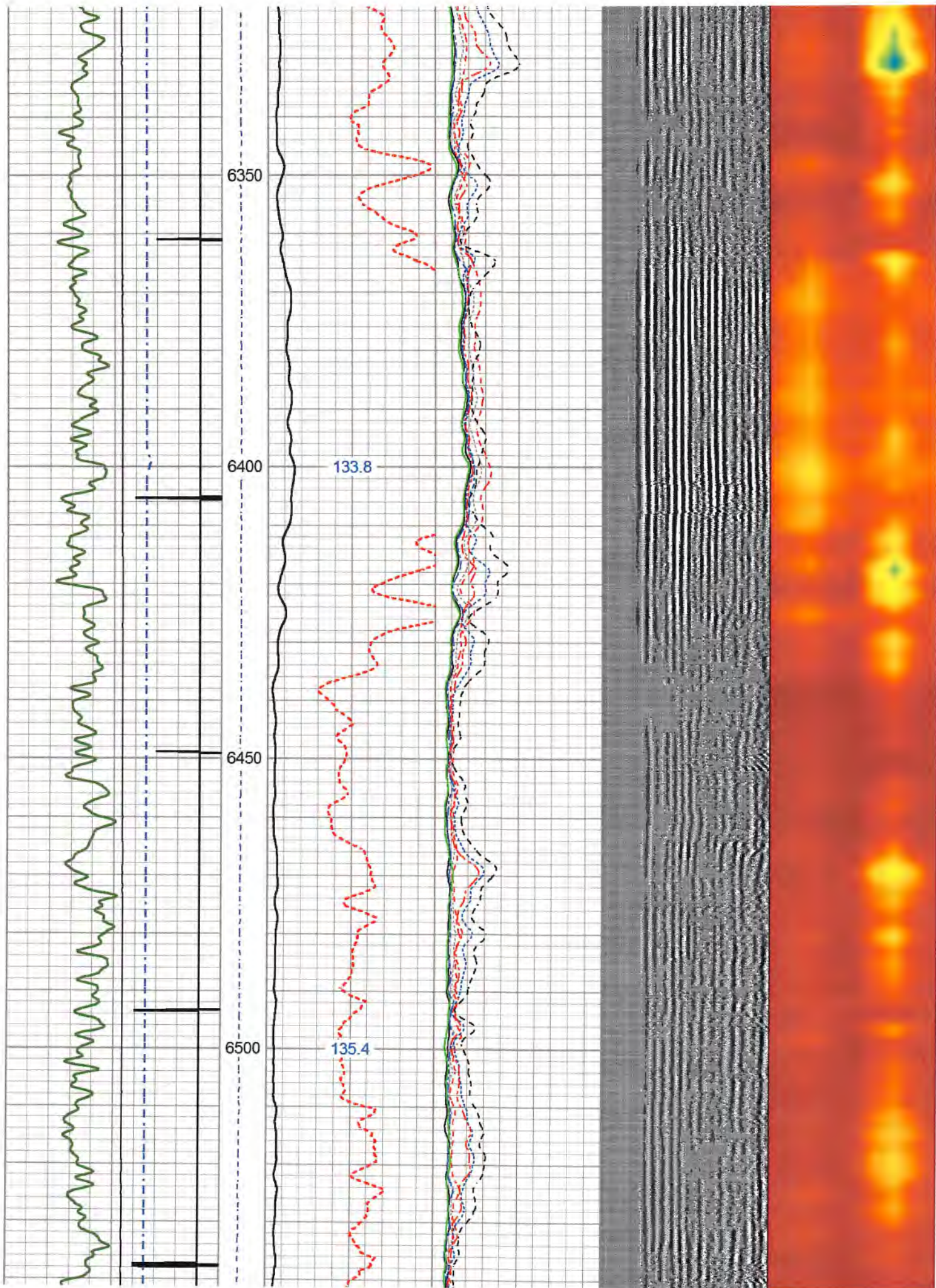


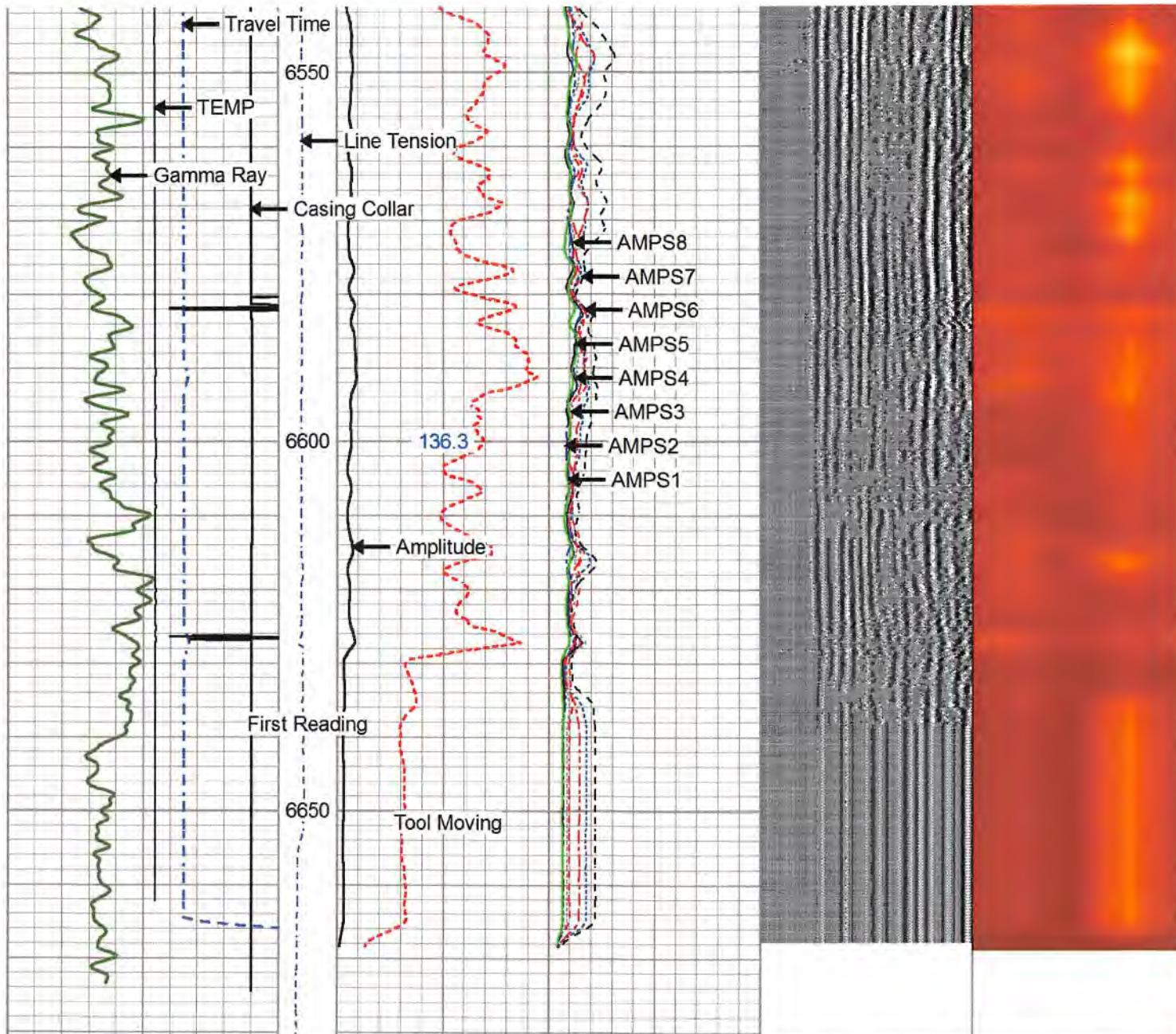












| | | | | | | | | | | | | | |
|-----|--------------------|-----|--------|---|---------------------|-----|-------|-------|-----|------------------|------|------------|-----|
| 420 | Travel Time (usec) | 220 | e Tens | 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 | Variable Density | 1 | Cement Map | 8 |
| 9 | Casing Collar | -1 | (lb) | 0 | Amplified Amplitude | -5 | AMPS2 | 150 | 200 | (V) | 1200 | 0 | 100 |
| 0 | Gamma Ray (GAPI) | 300 | (2500 | 0 | (mV) | 10 | -5 | AMPS3 | 150 | | | | |
| 0 | TEMP (degF) | 250 | | | TEMP | | -5 | AMPS4 | 150 | | | | |
| | | | | | (degF) | | -5 | AMPS5 | 150 | | | | |
| | | | | | | | -5 | AMPS6 | 150 | | | | |
| | | | | | | | -5 | AMPS7 | 150 | | | | |
| | | | | | | | -5 | AMPS8 | 150 | | | | |



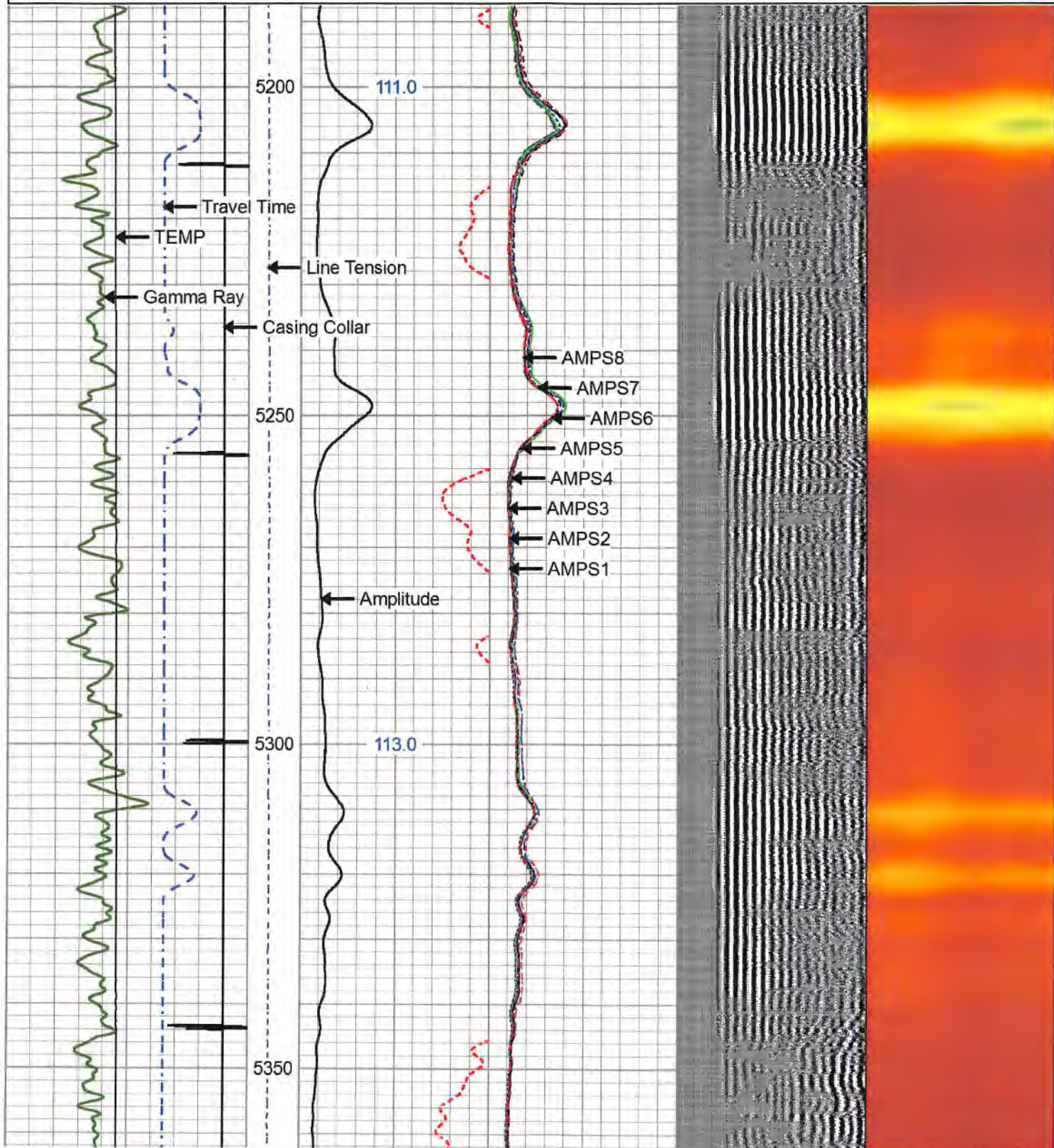
0 PSI REPEAT PASS

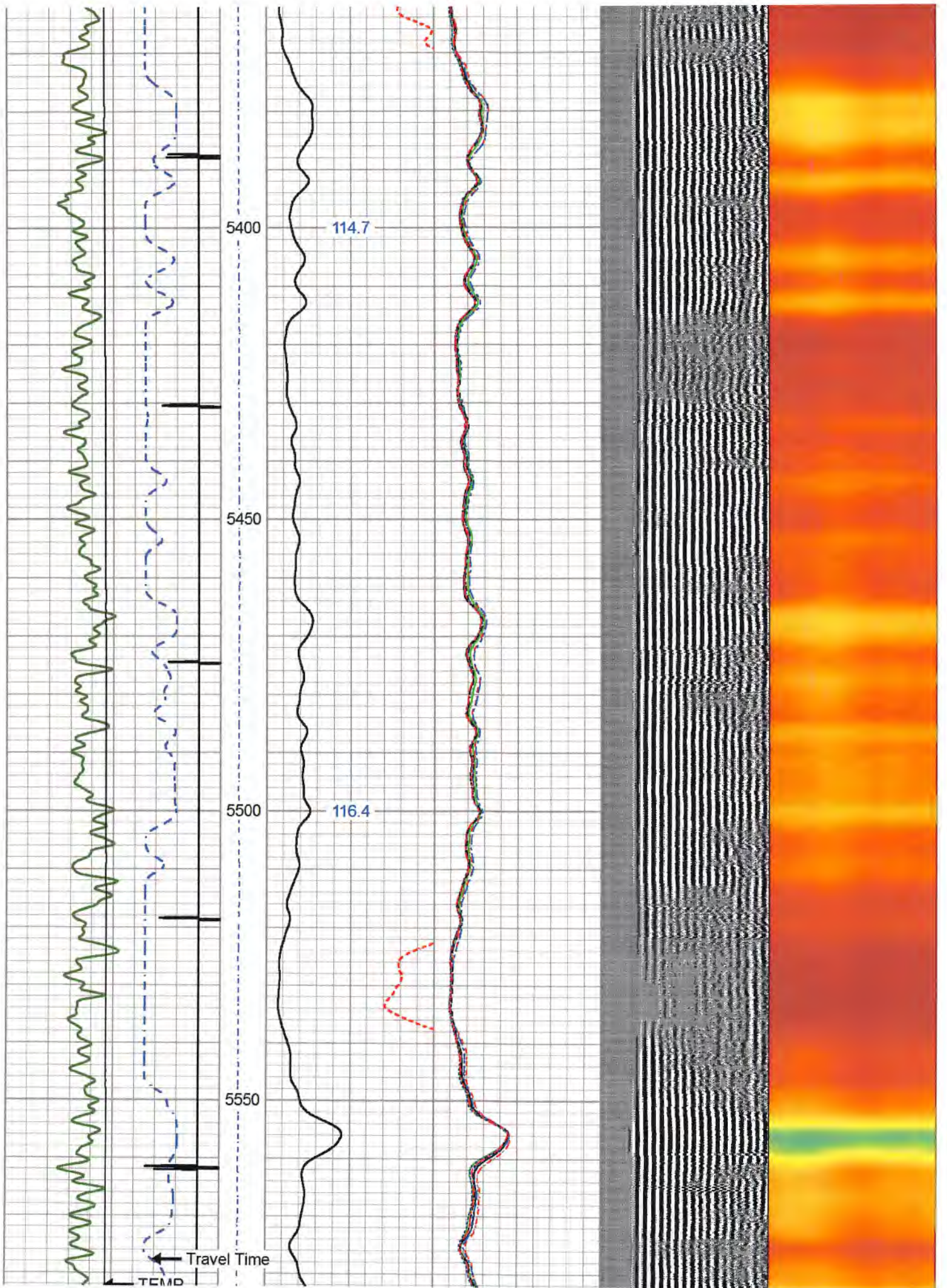
Scale 1:240

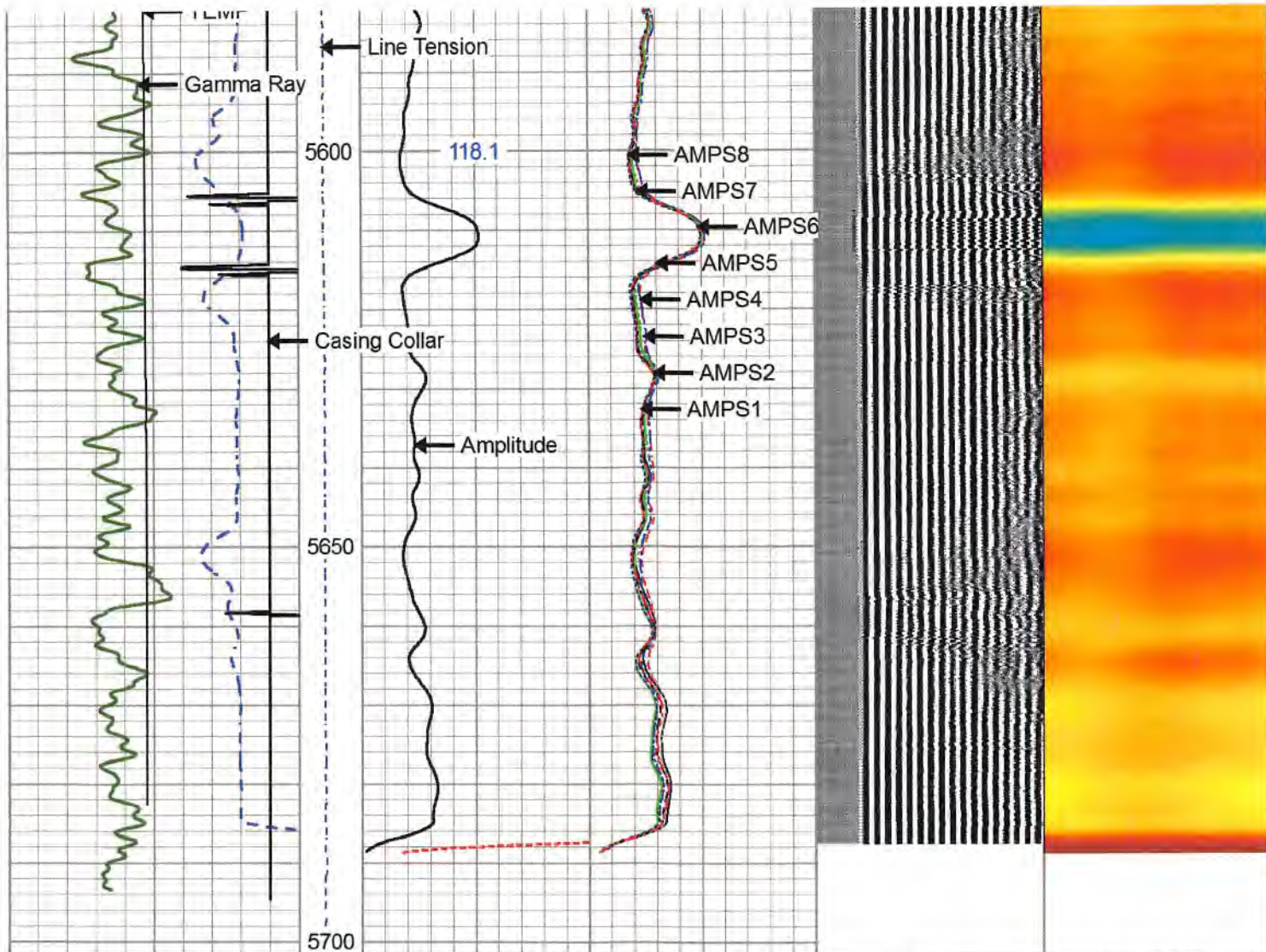
| | |
|---------------------|--|
| Database File | 47-095-02391_packers_unit2h_rcbl_02282018.db |
| Dataset Pathname | pass6 |
| Presentation Format | ahws_rcbl_jc |
| Dataset Creation | Wed Feb 28 15:33:42 2018 |

Charted by Depth in Feet scaled 1:240

| | | | | | | | | | | | | | |
|-----|--------------------|-----|--------|---|---------------------|-----|-------|-------|-----|------------------|------|------------|-----|
| 420 | Travel Time (usec) | 220 | e Tens | 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 | Variable Density | 1 | Cement Map | 8 |
| 9 | Casing Collar | -1 | (lb) | 0 | Amplified Amplitude | -5 | AMPS2 | 150 | 200 | (V) | 1200 | 0 | 100 |
| 0 | Gamma Ray (GAPI) | 300 | (2500) | 0 | (mV) | 10 | -5 | AMPS3 | 150 | | | | |
| 0 | TEMP (degF) | 250 | | | TEMP | | -5 | AMPS4 | 150 | | | | |
| | | | | | (degF) | | -5 | AMPS5 | 150 | | | | |
| | | | | | | | -5 | AMPS6 | 150 | | | | |
| | | | | | | | -5 | AMPS7 | 150 | | | | |
| | | | | | | | -5 | AMPS8 | 150 | | | | |







| | | | | | | | | | | | | | | | | |
|-----|--------------------|-----|-------------------|--------|--------------------------|-----|----|-------|-----|----------------------|-----|------|---|------------|---|-----|
| 420 | Travel Time (usec) | 220 | Line Tension (lb) | 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 | Variable Density (V) | 200 | 1200 | 1 | Cement Map | 8 | 100 |
| 9 | Casing Collar | -1 | (lb) | (2500) | Amplified Amplitude (mV) | 10 | -5 | AMPS2 | 150 | | | | 0 | | | |
| 0 | Gamma Ray (GAPI) | 300 | | | | | -5 | AMPS3 | 150 | | | | | | | |
| 0 | TEMP (degF) | 250 | | | TEMP (degF) | | -5 | AMPS4 | 150 | | | | | | | |
| | | | | | | | -5 | AMPS5 | 150 | | | | | | | |
| | | | | | | | -5 | AMPS6 | 150 | | | | | | | |
| | | | | | | | -5 | AMPS7 | 150 | | | | | | | |
| | | | | | | | -5 | AMPS8 | 150 | | | | | | | |

FREE PIPE PASS

Scale 1:240

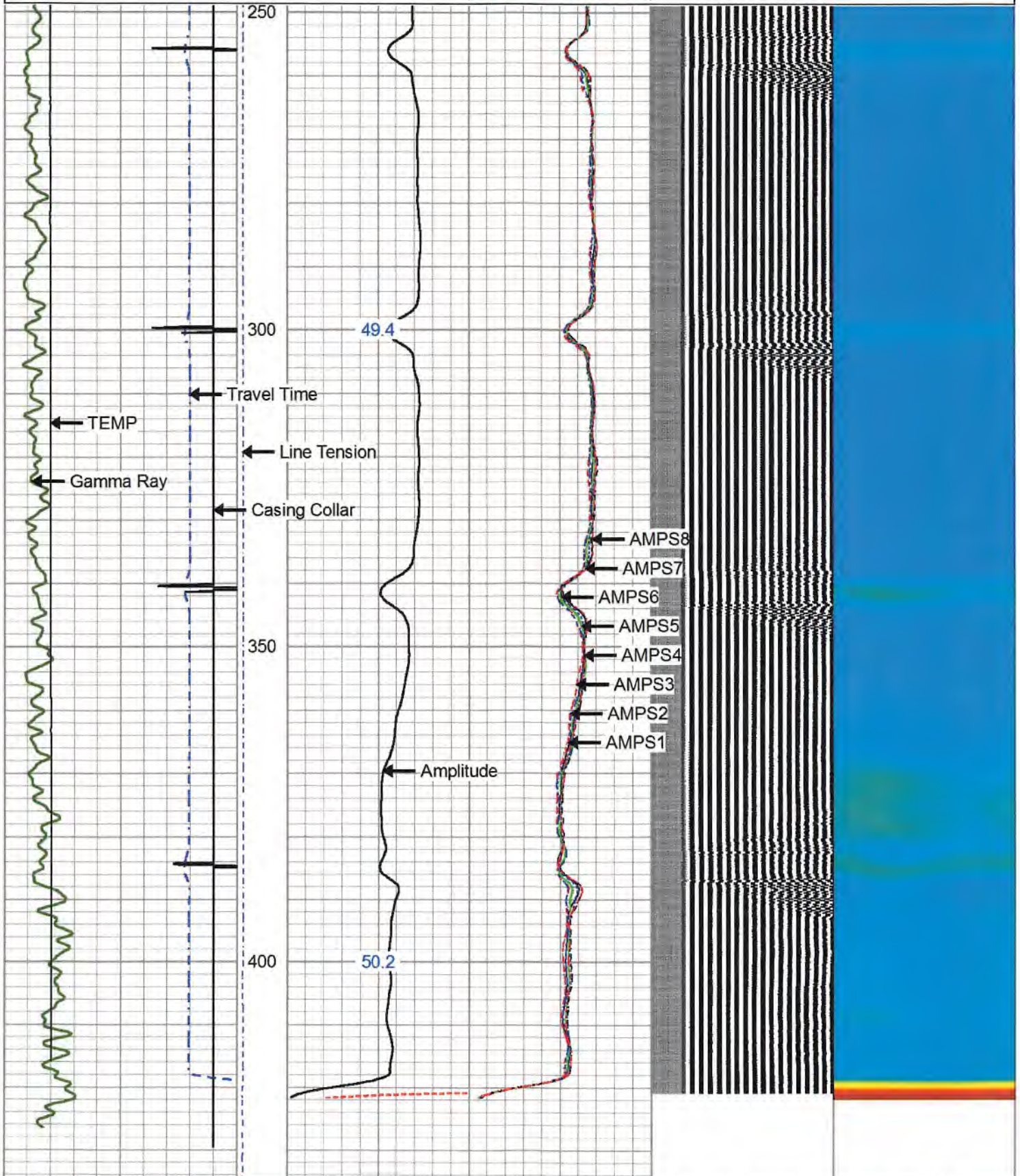
Database File: 47-095-02391_packers_unit2h_rcbl_02282018.db
 Dataset Pathname: pass4
 Presentation Format: ahws_rcbl_jc
 Dataset Creation: Wed Feb 28 15:11:47 2018
 Charted by: Depth in Feet scaled 1:240

| | | | | | | | | | | | | | | | | |
|-----|--------------------|-----|-------------------|--------|--------------------------|-----|----|-------|-----|----------------------|-----|------|---|------------|---|-----|
| 420 | Travel Time (usec) | 220 | Line Tension (lb) | 0 | Amplitude (mV) | 100 | -5 | AMPS1 | 150 | Variable Density (V) | 200 | 1200 | 1 | Cement Map | 8 | 100 |
| 9 | Casing Collar | -1 | (lb) | (2500) | Amplified Amplitude (mV) | 10 | -5 | AMPS2 | 150 | | | | 0 | | | |
| 0 | Gamma Ray (GAPI) | 300 | | | | | -5 | AMPS3 | 150 | | | | | | | |

0 TEMP (degF) 250

TEMP
(degF)

| | | |
|----|-------|-----|
| -5 | AMPS4 | 150 |
| -5 | AMPS5 | 150 |
| -5 | AMPS6 | 150 |
| -5 | AMPS7 | 150 |
| -5 | AMPS8 | 150 |



420 Travel Time (usec) 220
 9 Casing Collar -1

e Tens
(lb)

0 Amplitude (mV)100
 Amplified Amplitude

| | | |
|----|-------|-----|
| -5 | AMPS1 | 150 |
| -5 | AMPS2 | 150 |

Variable Density
(V) 1200

1 Cement Map 8
 0 100

| | | | | | | | | |
|---|----------------------|--------|---|--------|----|----|-------|-----|
| 0 | Gamma Ray (GAPI) 300 | (2500) | 0 | (mV) | 10 | -5 | AMPS3 | 150 |
| 0 | TEMP (degF) | 250 | | TEMP | | -5 | AMPS4 | 150 |
| | | | | (degF) | | -5 | AMPS5 | 150 |
| | | | | | | -5 | AMPS6 | 150 |
| | | | | | | -5 | AMPS7 | 150 |
| | | | | | | -5 | AMPS8 | 150 |

Log Variables

DatabaseC:\ProgramData\Warrior\Data\47-095-02391_packers_unit2h_rcbl_02282018.db
Dataset field/well/run1/pass8/_vars_

Top - Bottom

| | | | | | | | |
|------------|--------|---------|---------|----------|----------|---------|---------|
| BHTEMP_Src | BOREID | BOTTEMP | CASEOD | CASETHCK | CASEWGHT | MAXAMPL | MINAMPL |
| TEMP | in | degF | in | in | lb/ft | mV | mV |
| | 7.875 | 139 | 5.5 | 0.415 | 23 | 72 | 1 |
| MINATTN | PERFS | PPT | SRFTEMP | TDEPTH | | | |
| db/ft | | usec | degF | ft | | | |
| 0.8 | 0 | 260 | 50 | 6639 | | | |

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude

MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

Calibration Report

Database File 47-095-02391_packers_unit2h_rcbl_02282018.db
Dataset Pathname pass8
Dataset Creation Wed Feb 28 15:46:37 2018

Gamma Ray Calibration Report

Serial Number: FW1408-38 Corr
Tool Model: GC_C3
Performed: Thu May 25 15:00:07 2017

Calibrator Value: 1636.0 GAPI

Background Reading: 40.1 cps
Calibrator Reading: 1964.2 cps

Sensitivity: 0.8503 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: FW1406-126
Tool Model: RBTC3 Temp

Calibration Casing Diameter: 5.500 in
Calibration Depth: 329.767 ft

Master Calibration, performed Wed Feb 28 15:10:44 2018:

Raw (v)

Calibrated (mv)

Results

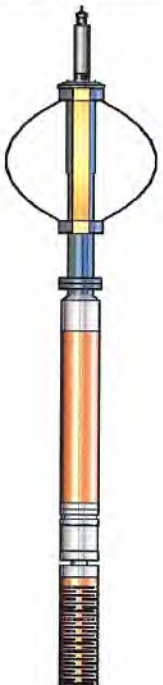
| | Zero | Cal | Zero | Cal | Gain | Offset |
|-----|--------|-------|-------|---------|---------|--------|
| 3' | -0.001 | 0.303 | 1.000 | 71.921 | 233.037 | 1.296 |
| CAL | -0.001 | 0.459 | | | | |
| 5' | -0.002 | 0.261 | 1.000 | 71.921 | 269.474 | 1.658 |
| SUM | | | | | | |
| S1 | -0.004 | 0.304 | 0.000 | 100.000 | 325.015 | 1.226 |
| S2 | -0.002 | 0.324 | 0.000 | 100.000 | 306.140 | 0.751 |
| S3 | -0.002 | 0.332 | 0.000 | 100.000 | 299.196 | 0.628 |
| S4 | -0.005 | 0.326 | 0.000 | 100.000 | 301.776 | 1.507 |
| S5 | -0.003 | 0.303 | 0.000 | 100.000 | 326.050 | 1.130 |
| S6 | -0.005 | 0.285 | 0.000 | 100.000 | 344.317 | 1.732 |
| S7 | -0.010 | 0.278 | 0.000 | 100.000 | 346.517 | 3.562 |
| S8 | -0.006 | 0.285 | 0.000 | 100.000 | 342.747 | 2.222 |

Internal Reference Calibration, performed (Not Performed):

| | Raw (v) | | Calibrated (v) | | Results | |
|-----|---------|-------|----------------|-------|---------|--------|
| | Zero | Cal | Zero | Cal | Gain | Offset |
| CAL | 0.000 | 0.000 | -0.001 | 0.459 | 1.000 | 0.000 |

Air Zero Calibration, performed Thu Feb 15 08:40:59 2018:

| | 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 | |

| Sensor | Offset (ft) | Schematic | Description | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|---|--|-------------|-----------|-------------|
| | |  | CHD-STNDRD (GOI) Standard Cable Head | 1.00 | 1.69 | 10.00 |
| | | | CENT-Probe275 Probe 2.75" 4 Arm Bow Spring Centralizer | 2.88 | 1.69 | 36.00 |
| Temp | 17.35 | | RBT-RBTC3 Temp (FW1406-126) Probe 2.75" Corrosion Resistant With Integral Temp Sensor | 9.39 | 2.75 | 90.00 |
| WFVS8 | 15.12 | | | | | |

| | | | | | | |
|--------|-------|--|---|------|------|-------|
| WVFS7 | 15.12 | | | | | |
| WVFS6 | 15.12 | | | | | |
| WVFS5 | 15.12 | | | | | |
| WVFS4 | 15.12 | | | | | |
| WVFS3 | 15.12 | | | | | |
| WVFS2 | 15.12 | | | | | |
| WVFS1 | 15.12 | | | | | |
| WVFCAL | 15.12 | | | | | |
| WVF3FT | 15.12 | | | | | |
| WVF5FT | 14.12 | | | | | |
| | | | CENT-Probe275 Probe 2.75" 4 Arm Bow Spring Centralizer | 2.88 | 1.69 | 36.00 |
| CCL | 7.09 | | | | | |
| GR | 6.01 | | GR-GC_C3 (FW1408-38 Corr) Probe 2.75" Gamma Ray-CCL Corrosion Modified | 5.10 | 2.75 | 55.00 |
| | | | CENT-Probe275 Probe 2.75" 4 Arm Bow Spring Centralizer | 2.88 | 1.69 | 36.00 |

Dataset: 47-095-02391_packers_unit2h_rcbl_02282018.db; field/well/run1/pass8
 Total length: 24.15 ft
 Total weight: 263.00 lb
 O.D.: 2.75 in

| | | |
|--|---------|------------------------------|
| | Company | Antero Resources Corporation |
| | Well | Packers Unit 2H |
| | Field | Mountain |
| | County | Tyler |
| | State | West Virginia |
| | Country | USA |

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 Environmental Protection