



Baker Atlas

**RADIAL ANALYSIS
BOND LOG**

| | | |
|---|---|--|
| File No: CH057377 | Company Well | MESA ENERGY LLC COYOTE BASIN 29-12-397 |
| API No: 05103119080000 | Field County | COLOROW GULCH RIO BLANCO |
| NW SW 29-3N-97W | Location NW SW 29-3N-97W | State COLORADO |
| Permanent Datum Log Measured From Drill Measured From | SEC 29 TWP 3N RGE 97W | Other Services RPM |
| | G.L. _____ Elevation 5853 ft K.B. _____ 23 ft Above P. D. KELLY BUSHING _____ | Elevations KB 5876 ft DF 5875 ft GL 5853 ft |

| | |
|------------------------------|--------------------|
| Date | 21 JULY 2012 |
| Run | ONE |
| Service Order | 574690 |
| Depth Driller | 9750 ft |
| Depth Logger | 9665 ft |
| Bottom Logged Interval | 9655 ft |
| Top Logged Interval | 4300 ft |
| Time Started | BDD |
| Time Finished | 1100 |
| Operator Rig Time | 3 HRS |
| Type of Fluid in Hole | WATER |
| Fluid Density | NA |
| Salinity | NA |
| Fluid Level | FULL |
| Logged Cement Top | NA |
| Wellhead Pressure | 0 psi |
| Maximum Hole Deviation | NA |
| Nominal Logging Speed | 45 fpm |
| Maximum Recorded Temperature | 216 degF |
| Reference Log | HALLIBURTON OH LOG |
| Reference Log Date | 04 APR 2012 |
| Equipment No. | 4271 |
| Location | GRAND JUNCTION |
| Recorded By | JACOB STALEY |
| Witnessed By | Brian Jolley |

- FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

| Borehole Record | | |
|-----------------|------|---------|
| Bit Size | From | To |
| NA | 0 ft | 1040 ft |
| NA | 0 ft | 4750 ft |
| NA | 0 ft | 9748 ft |

| Casing Record | | | | |
|---------------|-------------|-------|------|---------|
| Size | Weight | Grade | From | To |
| 10.75 In | 40.5 lbm/ft | J-55 | 0 ft | 1040 ft |
| 8.625 In | 32 lbm/ft | K-55 | 0 ft | 4750 ft |
| 5.5 In | 20 lbm/ft | P-110 | 0 ft | 9748 ft |

Remarks

ALL DATA IS DEPTH SHIFTED TO MATCH THE HALLIBURTON OH LOG DATED 04 APR 2012 ON THE BOTTOM OF HOLE WITH A SHIFT OF +26 FT

SJ = 7033' - 7054'

BHT = 216 DEG F

Equipment Data

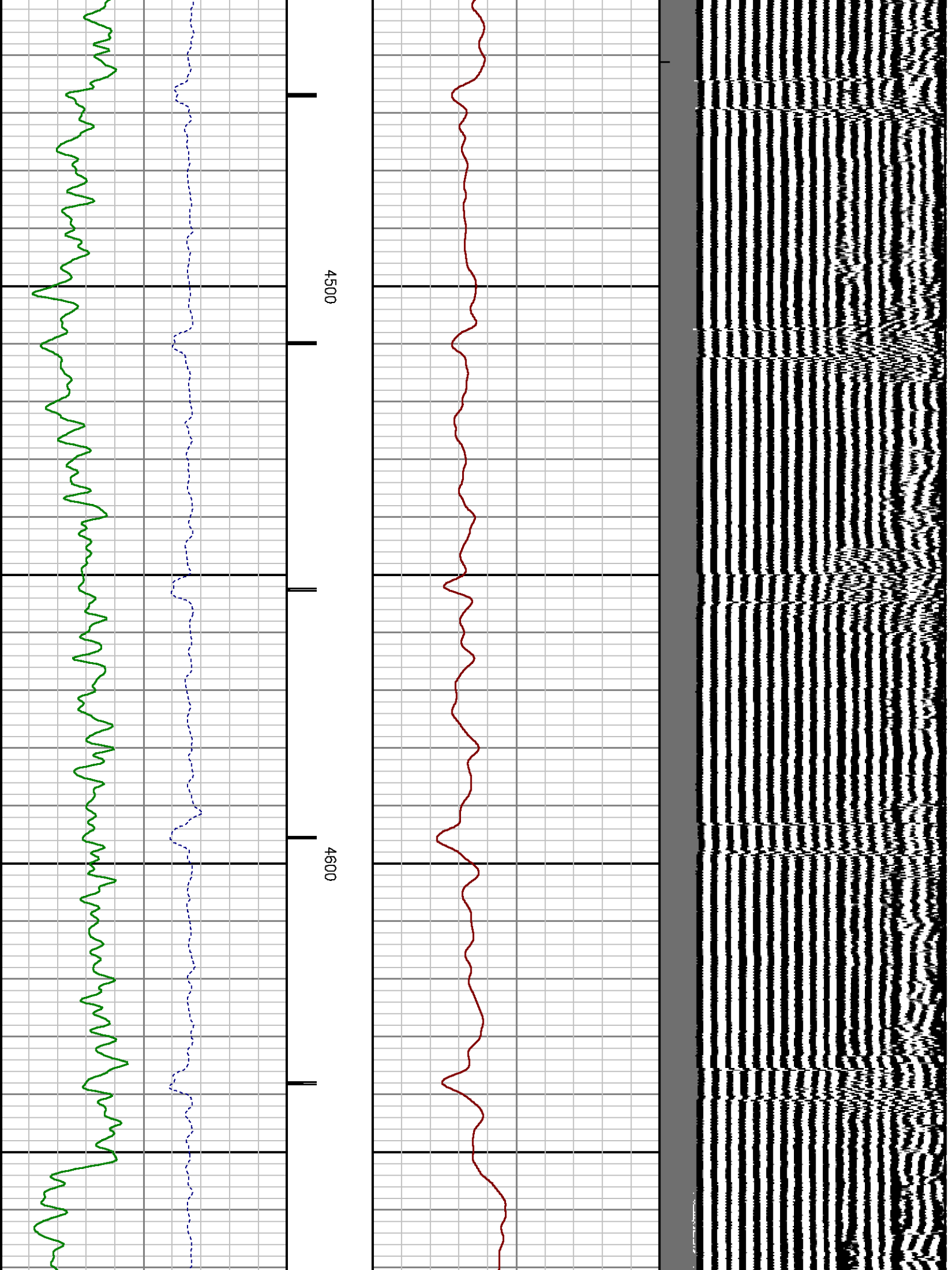
| Run | Trip | Tool | Series Number | Serial Number | Position |
|-----|------|--------|---------------|---------------|----------|
| 1 | 1 | VDL | 1426XA | 10417452 | CENT |
| 1 | 1 | GR/CCL | 2459XA | 10417456 | CENT |

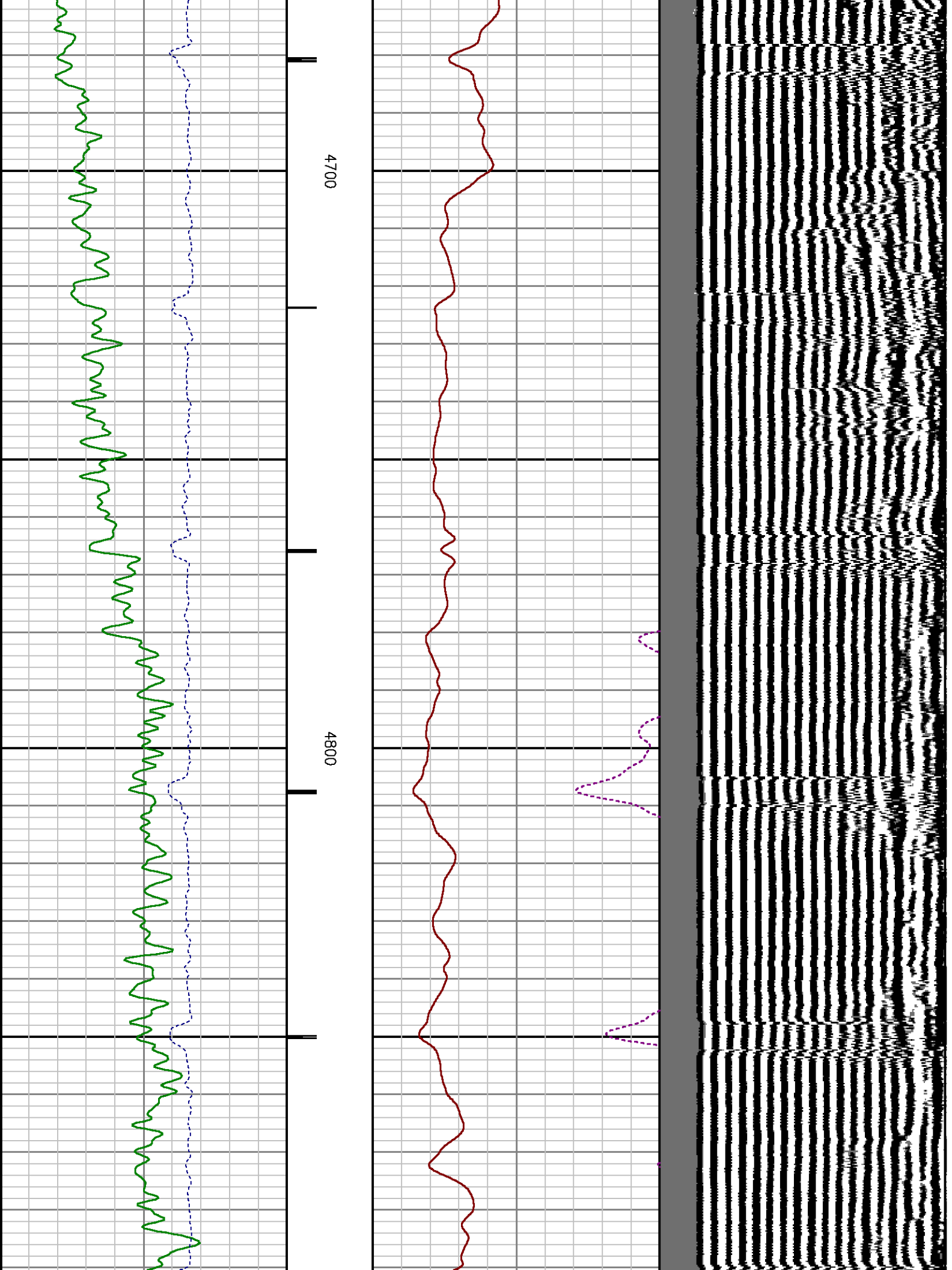
PRIMARY PRESENTATION
0 PSI

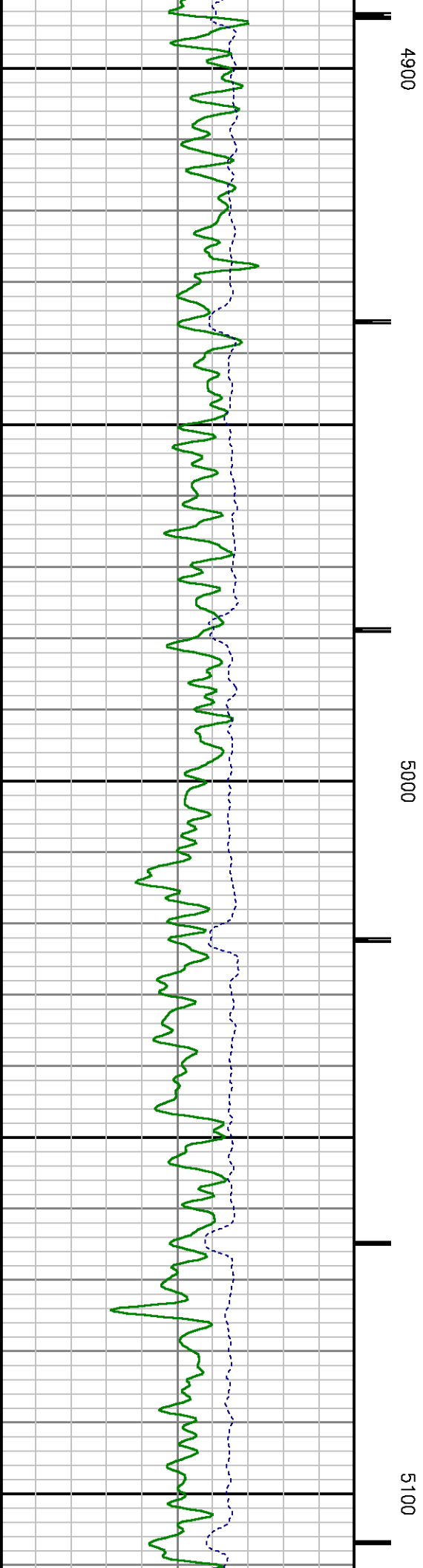
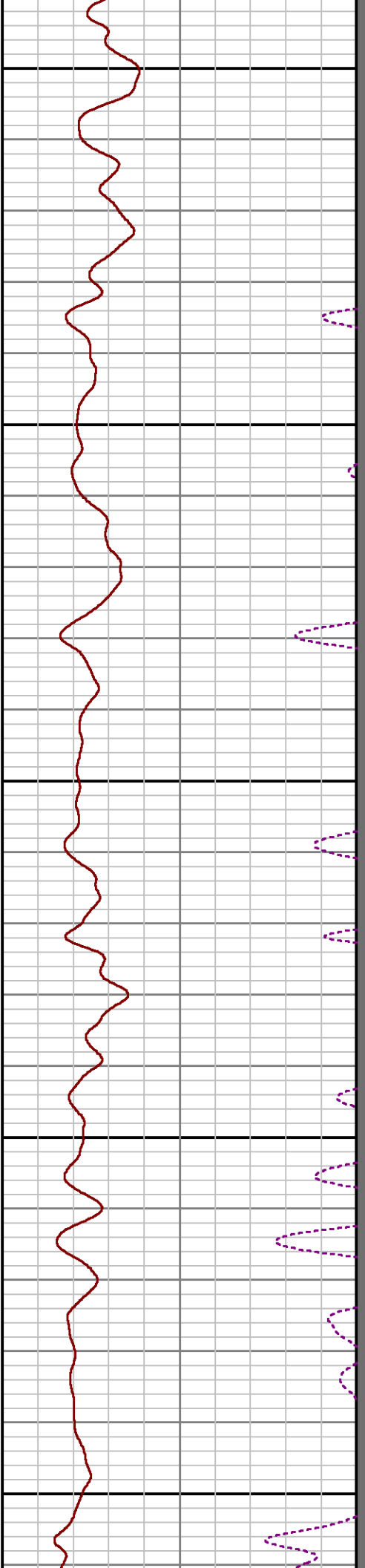
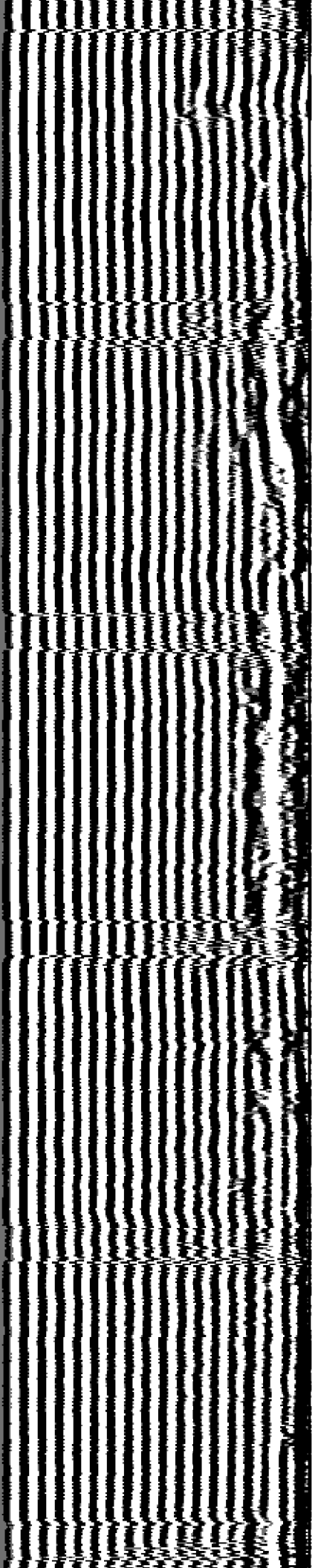
| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | TOP | BOTTOM |
|------------------|-----------------------|---------|---------|----------|----------|
| RAL | Amp Gate Start Far | 320.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Start Near | 212.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Start Radial | 212.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Width Far | 25.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Width Near | 25.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Width Radial | 25.000 | usec | 4325.812 | 9689.000 |
| RAL | casing od | 5.500 | inches | 4325.812 | 9689.000 |
| RAL | casing wt | 20.000 | lbm/ft | 4325.812 | 9689.000 |
| RAL | FB Start Far | 304.461 | usec | 4325.812 | 9689.000 |
| RAL | FB Start Near | 187.952 | usec | 4325.812 | 9689.000 |
| RAL | FB Start Radial | 187.952 | usec | 4325.812 | 9689.000 |
| RAL | FB Thresh Far | 10.000 | mv | 4325.812 | 9689.000 |
| RAL | FB Thresh Near | 4.000 | mv | 4325.812 | 9689.000 |
| RAL | FB Thresh Radial | 4.000 | mv | 4325.812 | 9689.000 |
| RAL | Fluid Travel Time | 200.000 | usec/ft | 4325.812 | 9689.000 |

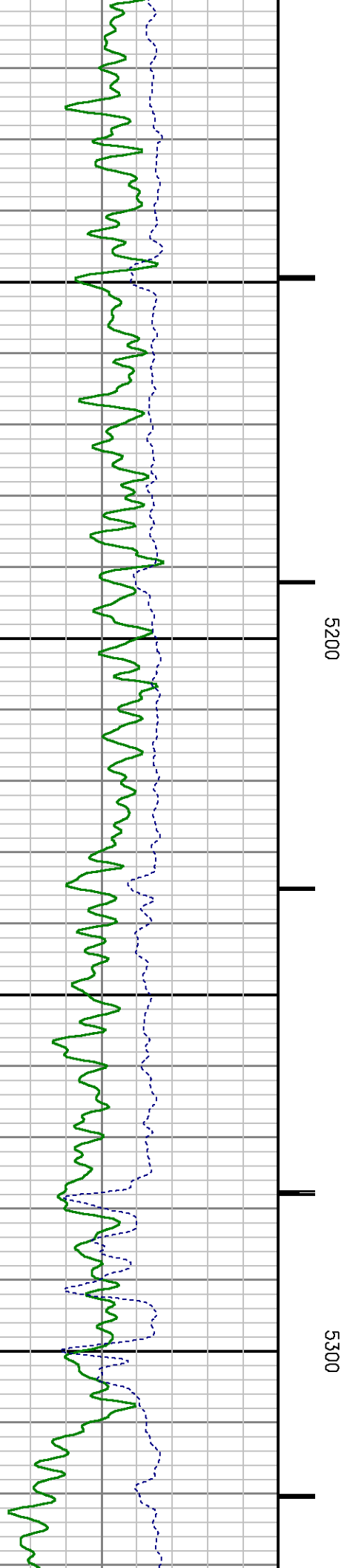
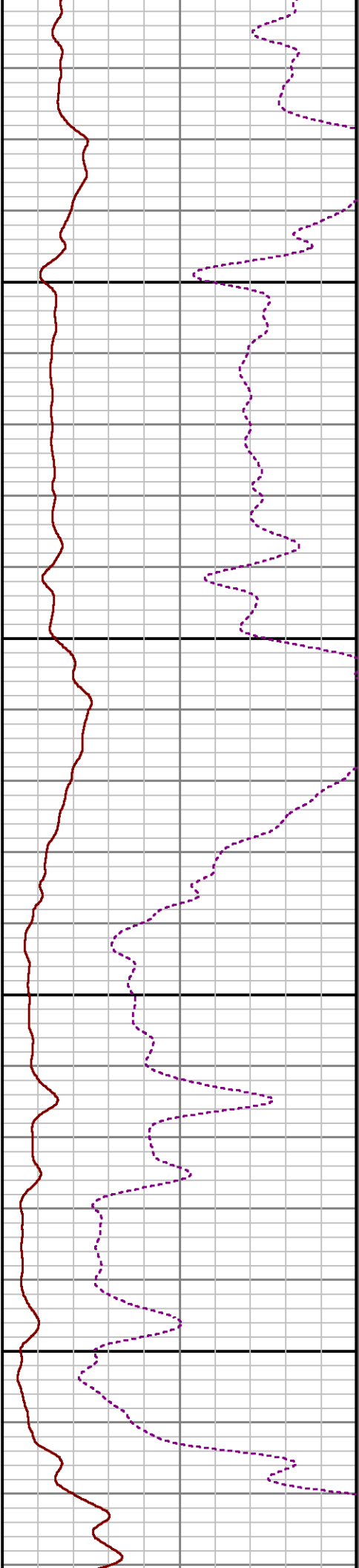
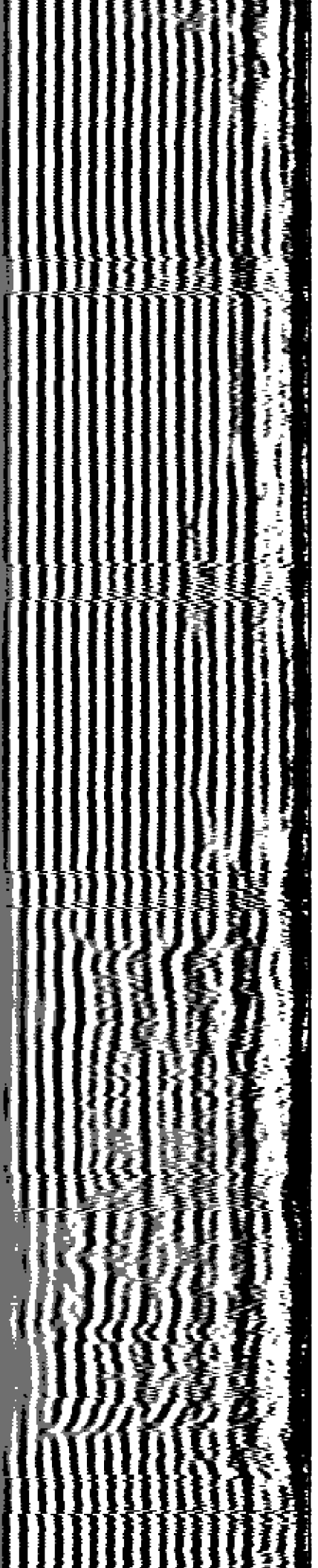
DEPTH OFFSETS
(for Acquired Curves)

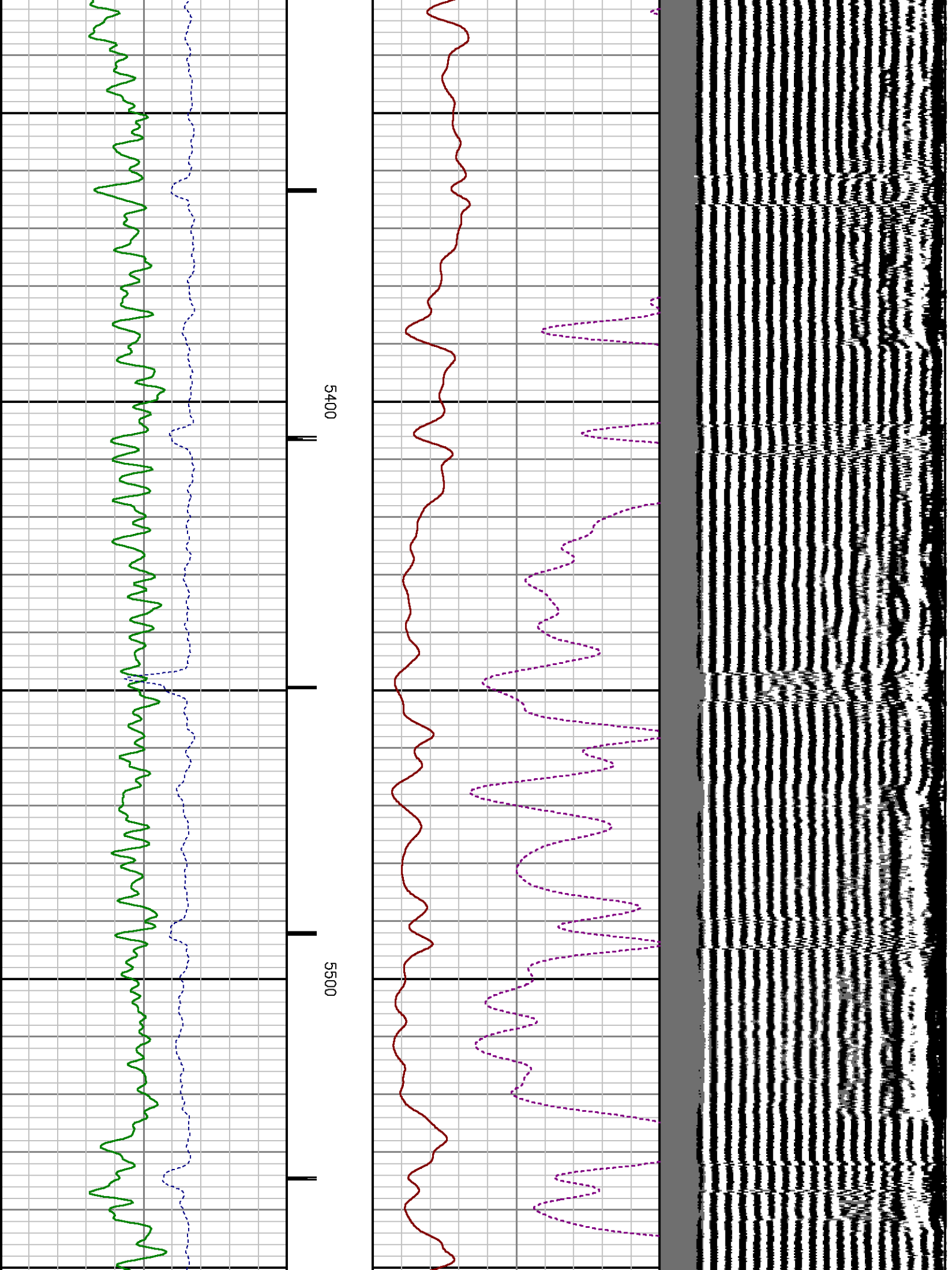
| SERIES | DEPTH OFFSET | ACQUIRED CURVES | | | | | |
|--------|--------------|-----------------|-----|-----|-----|-----|-----|
| | | ACAL | ANR | AR1 | AR2 | AR3 | AR4 |
| 1426XA | -16.750 | | | | | | |

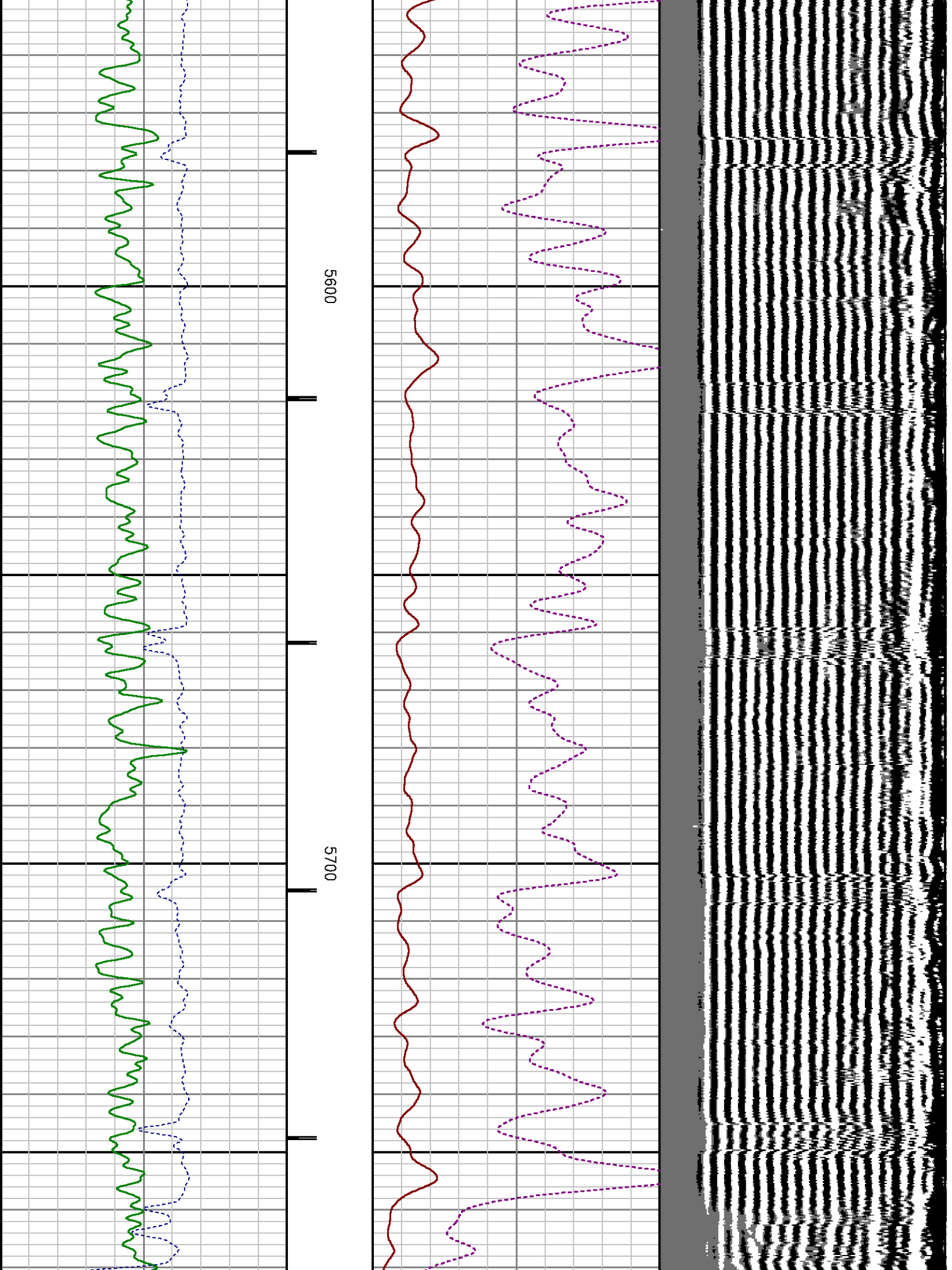


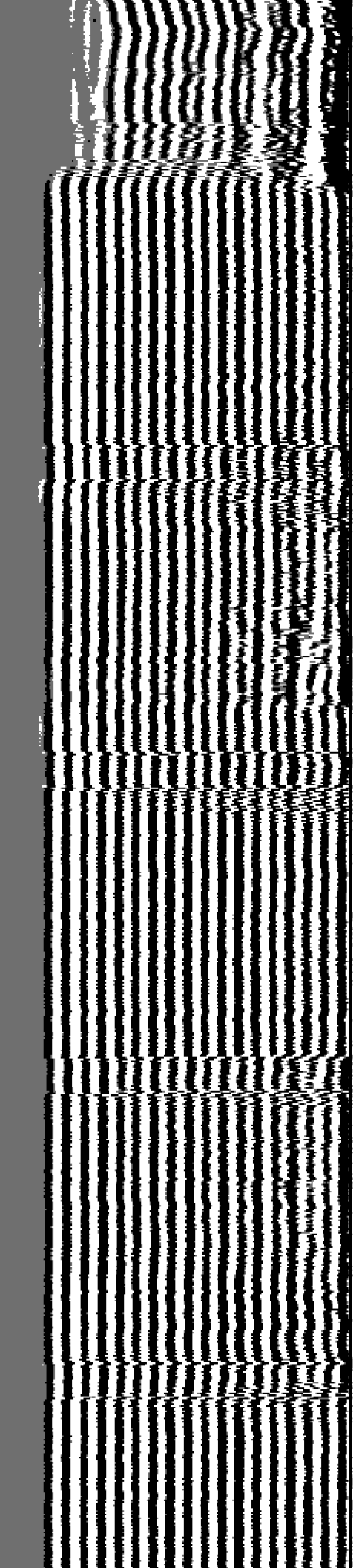
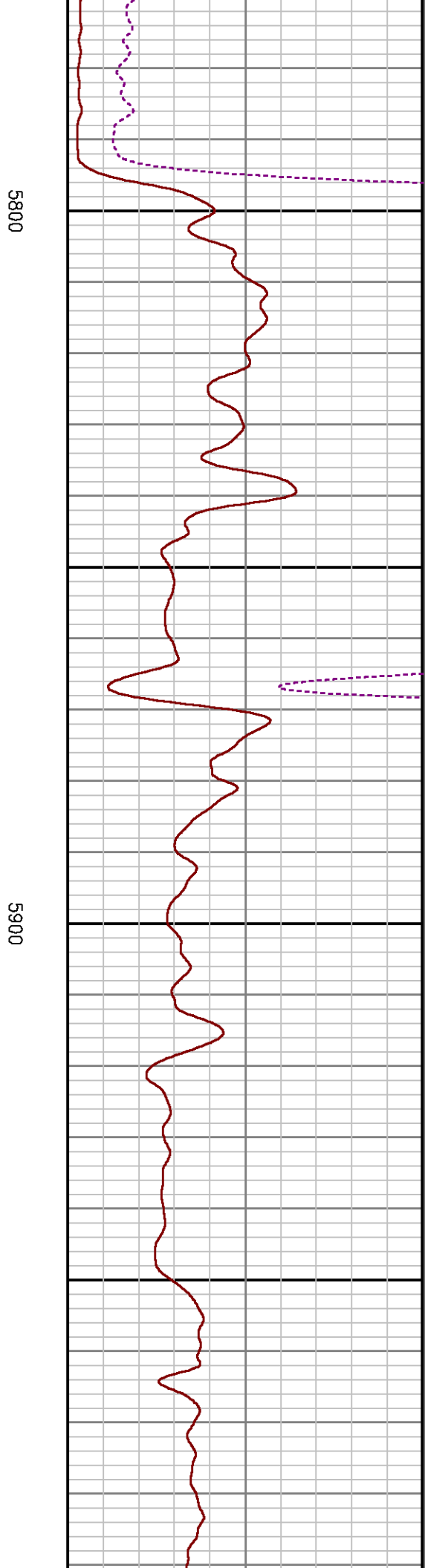
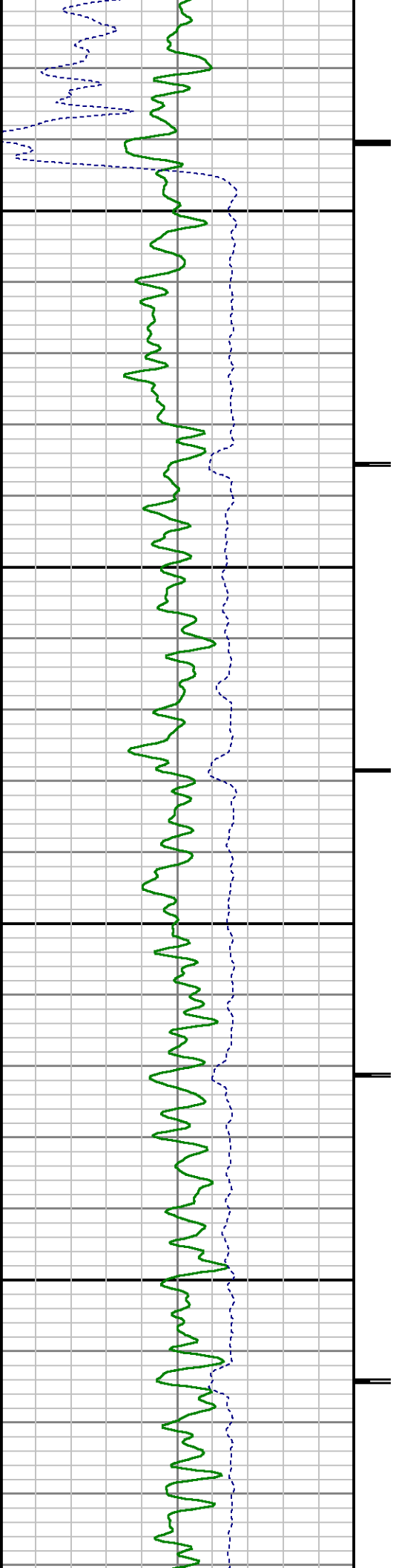


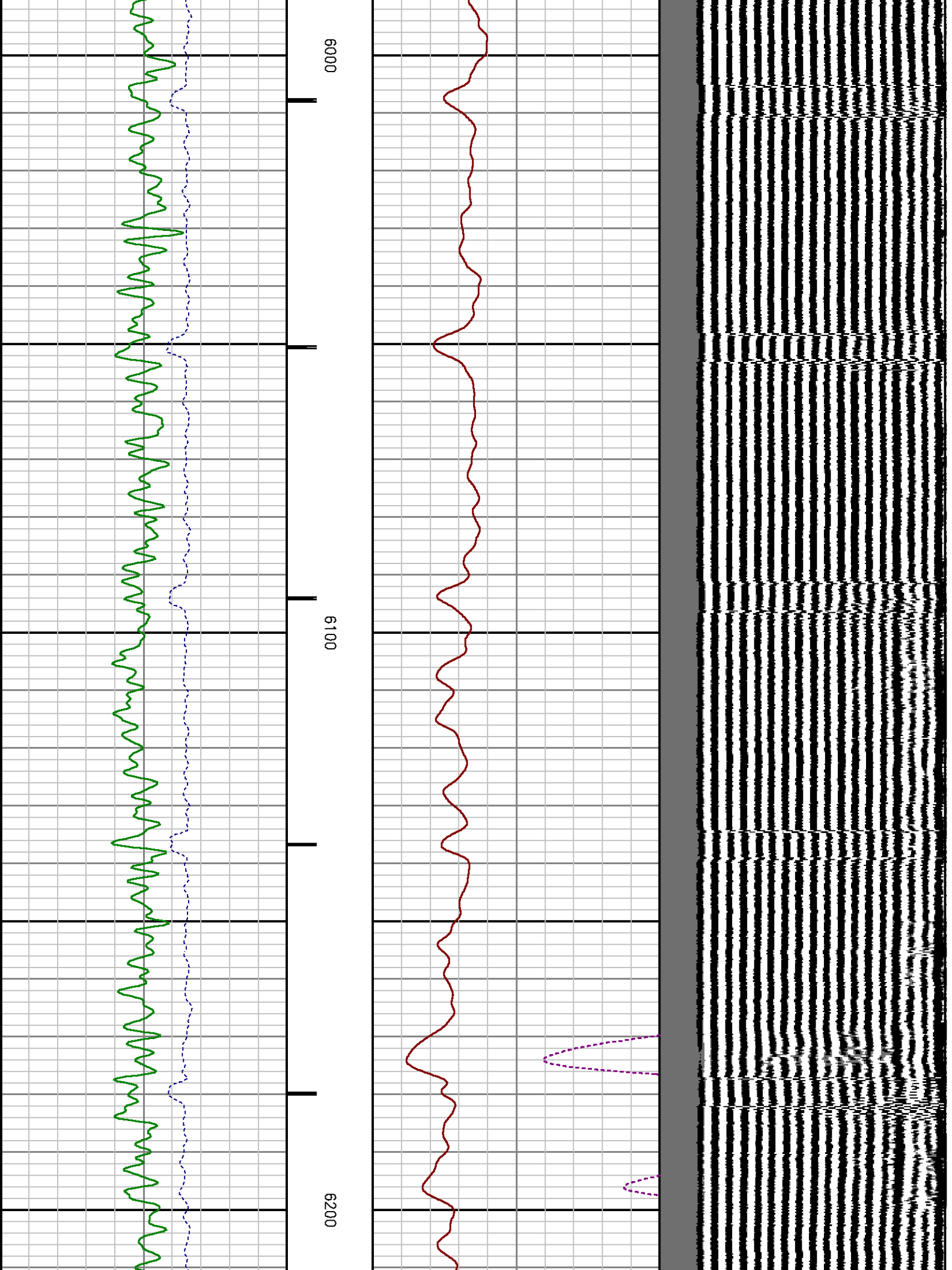


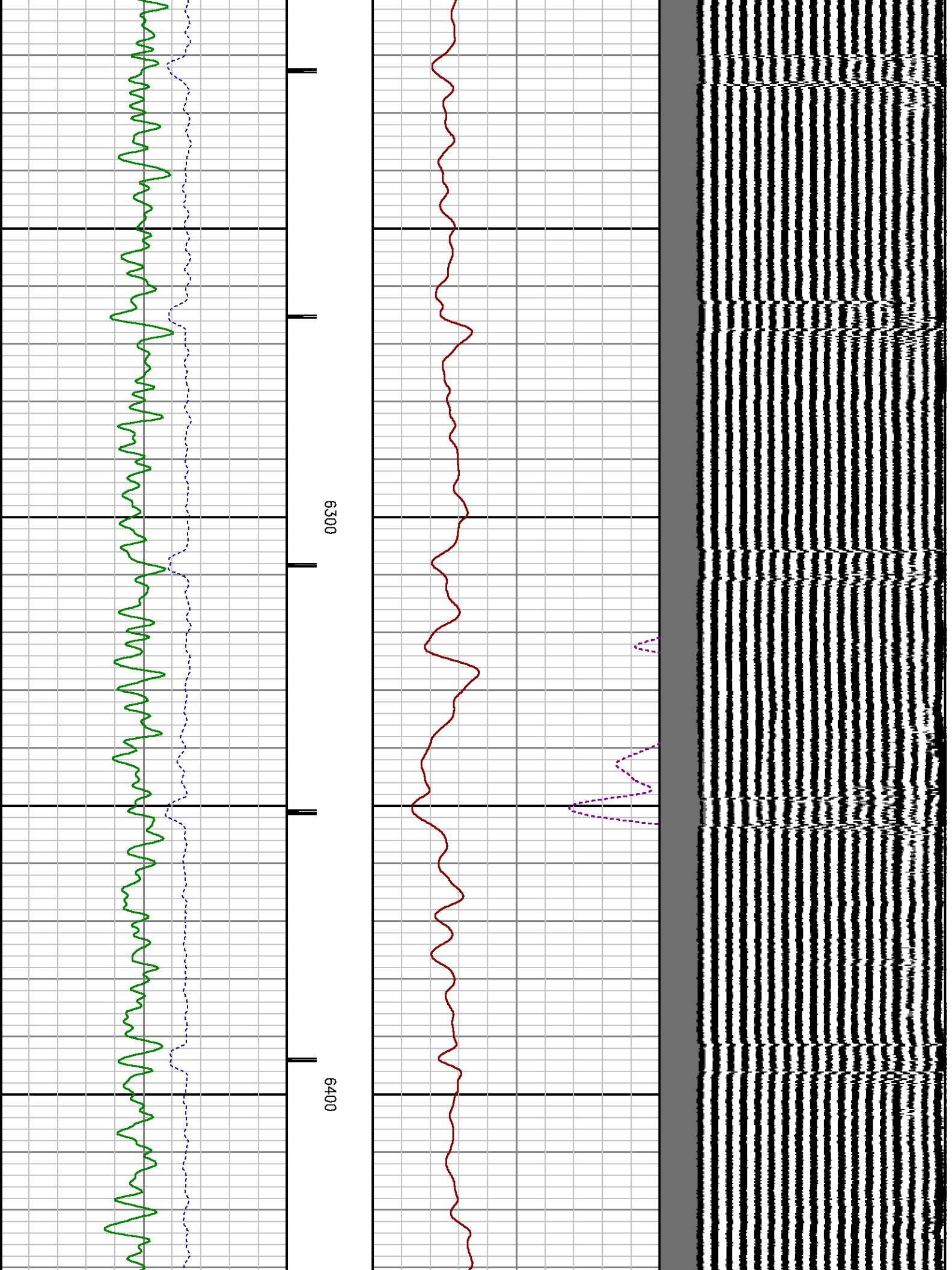


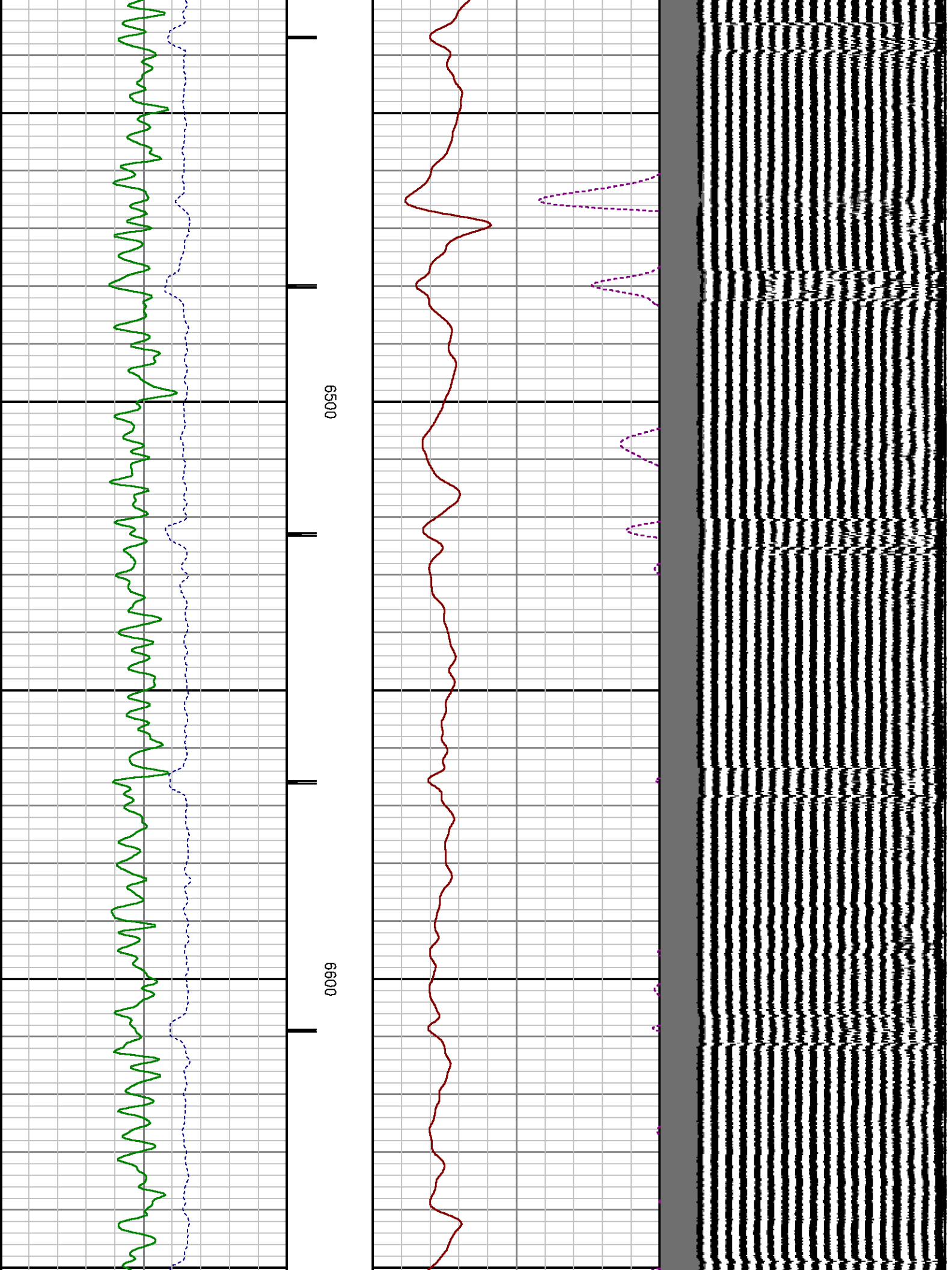


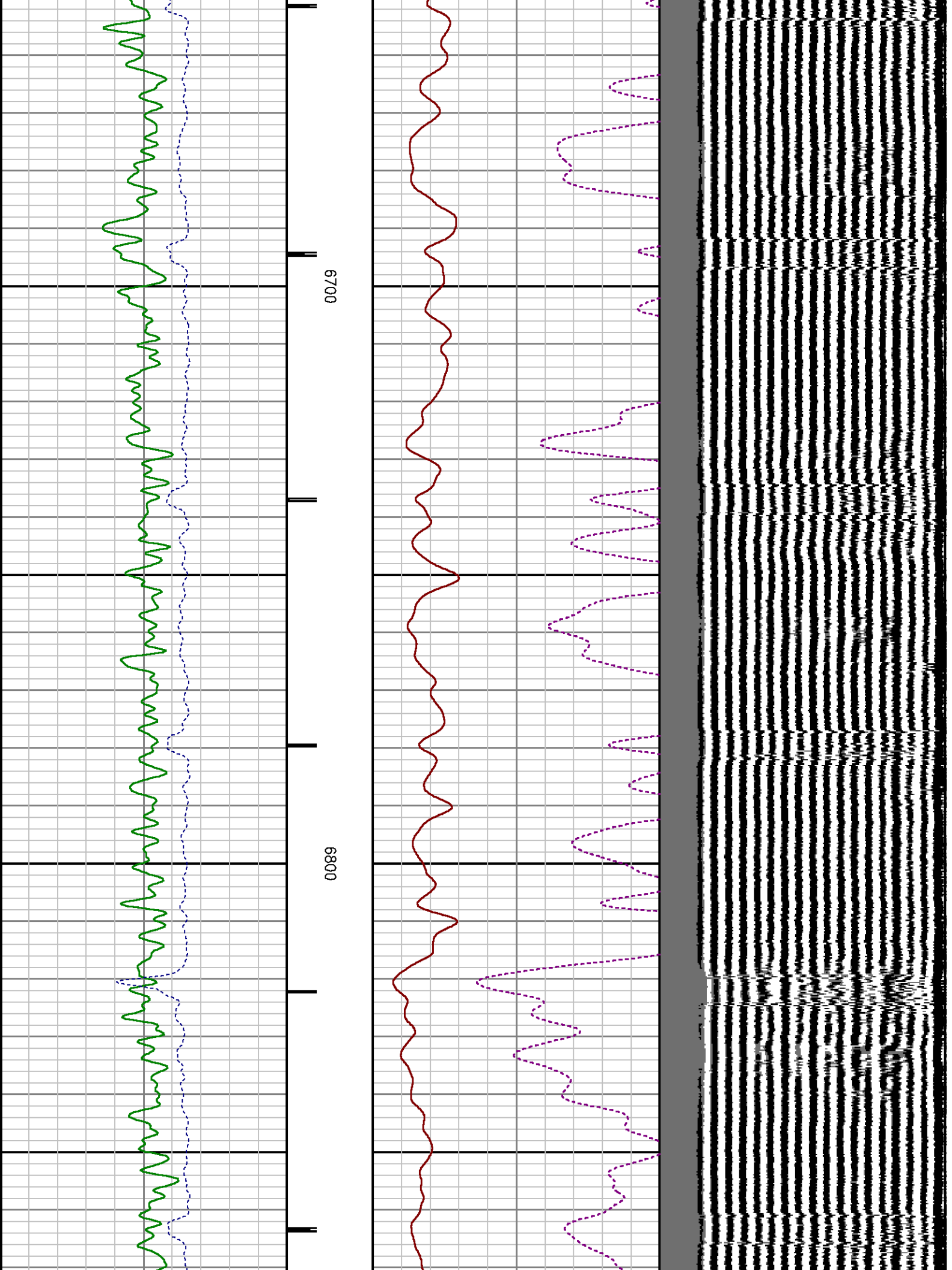


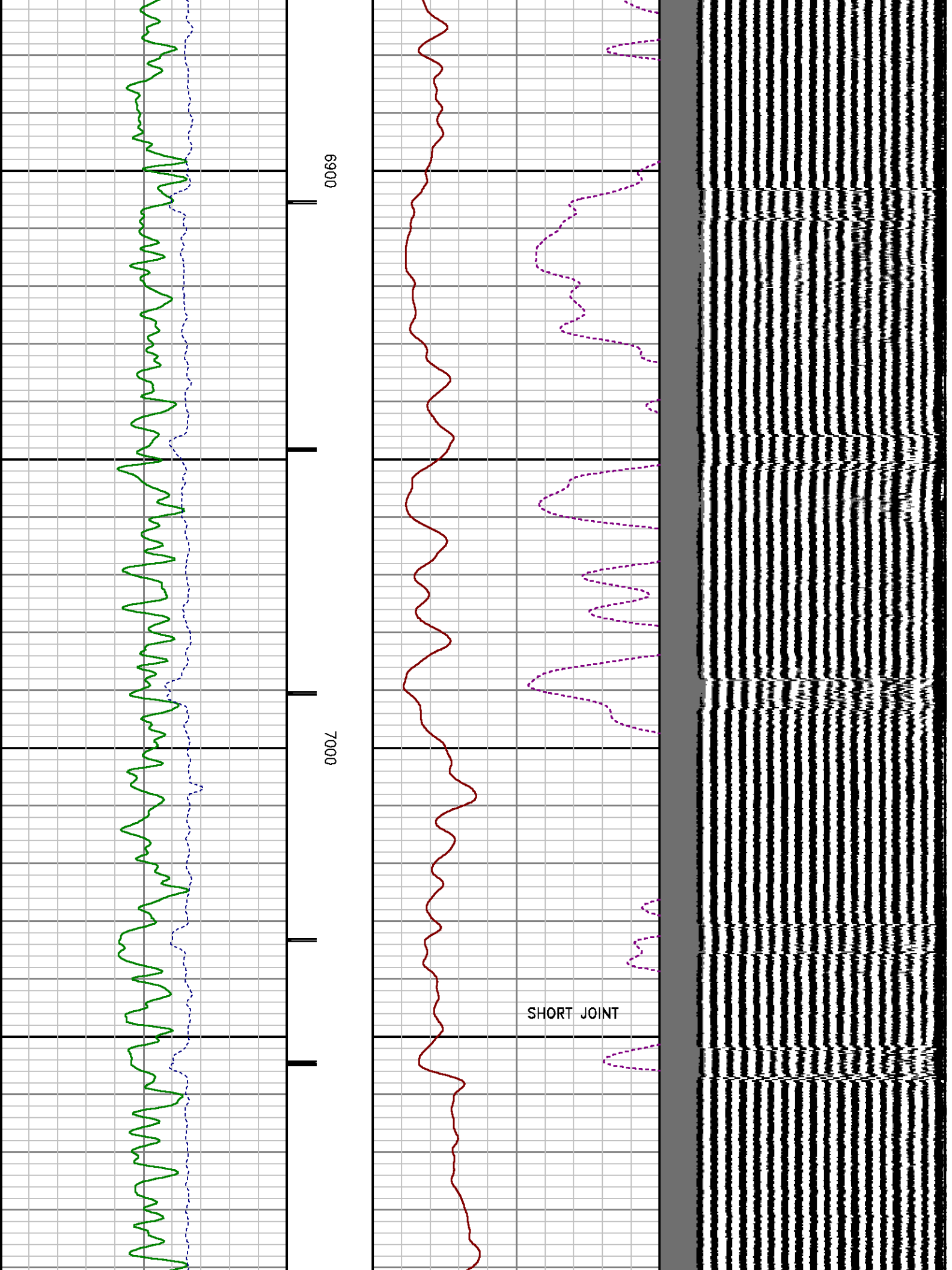


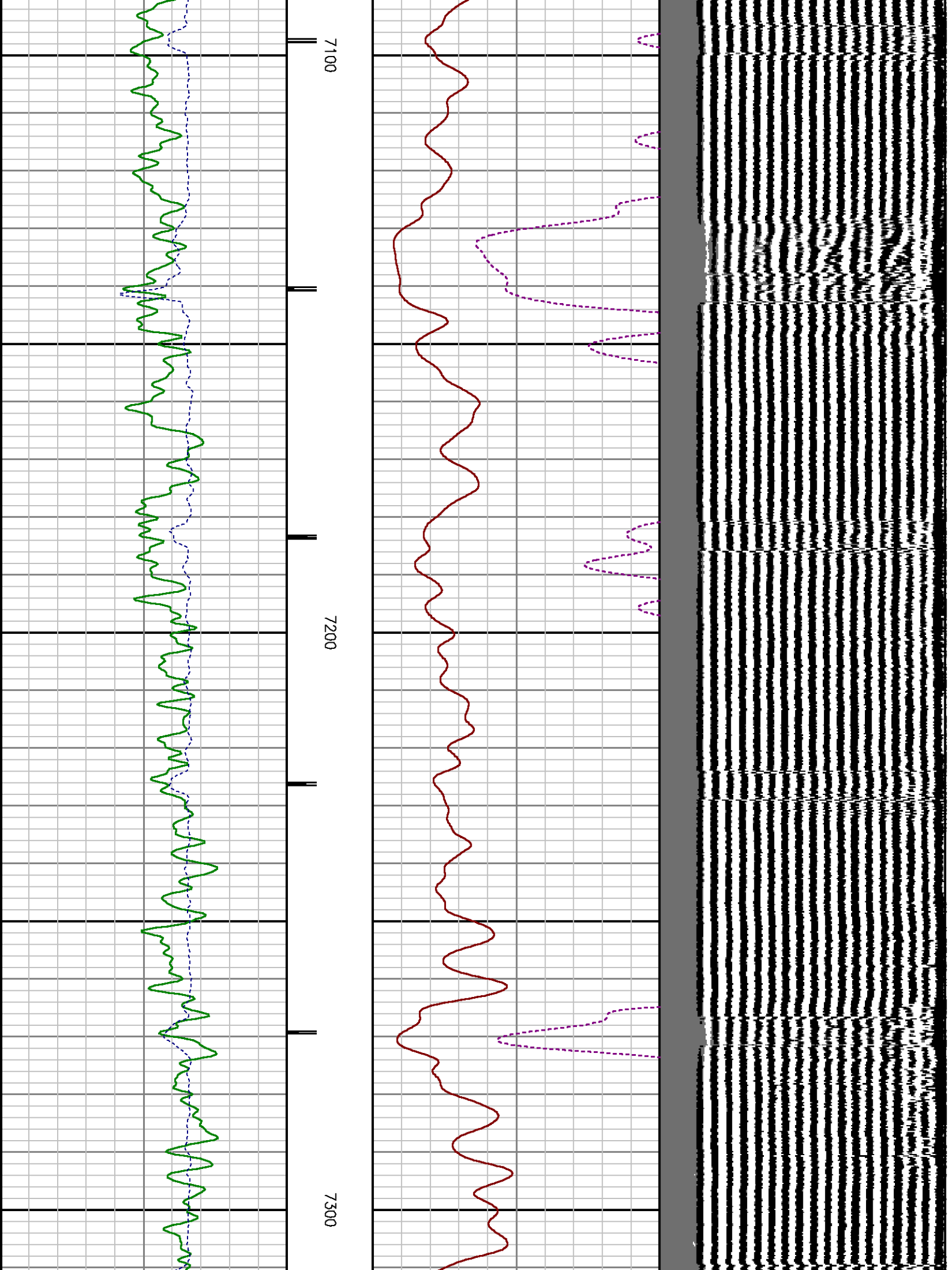


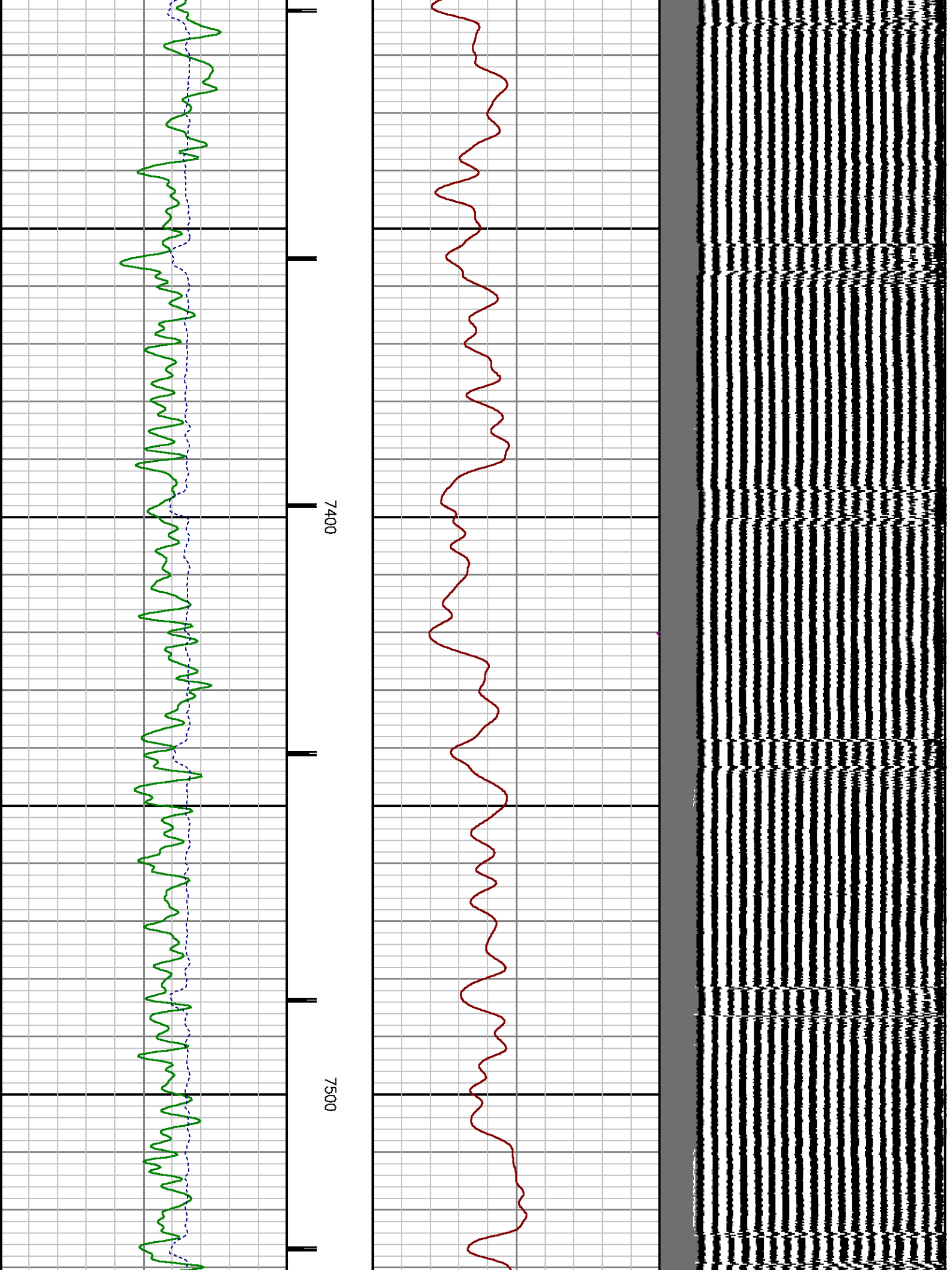


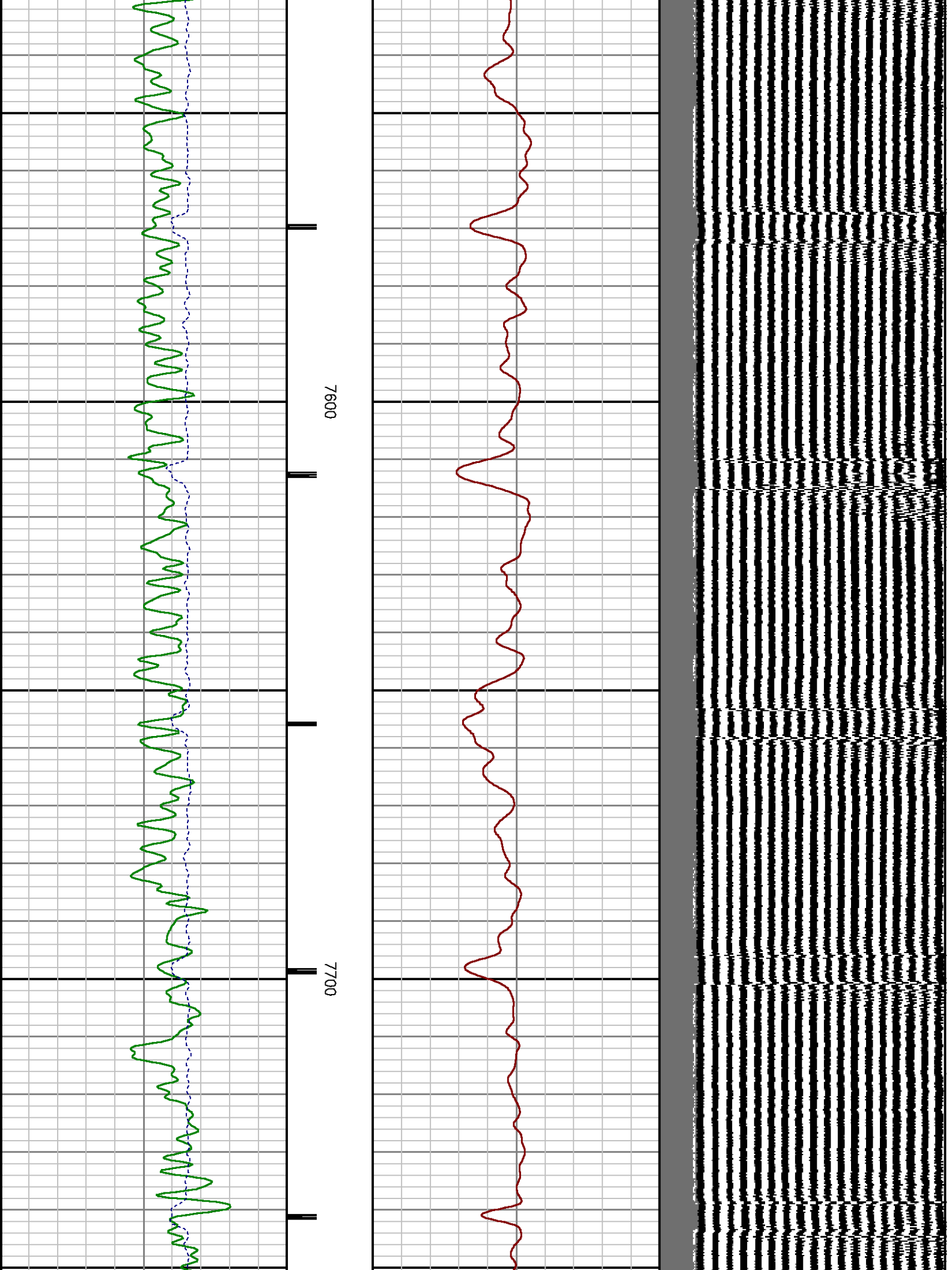


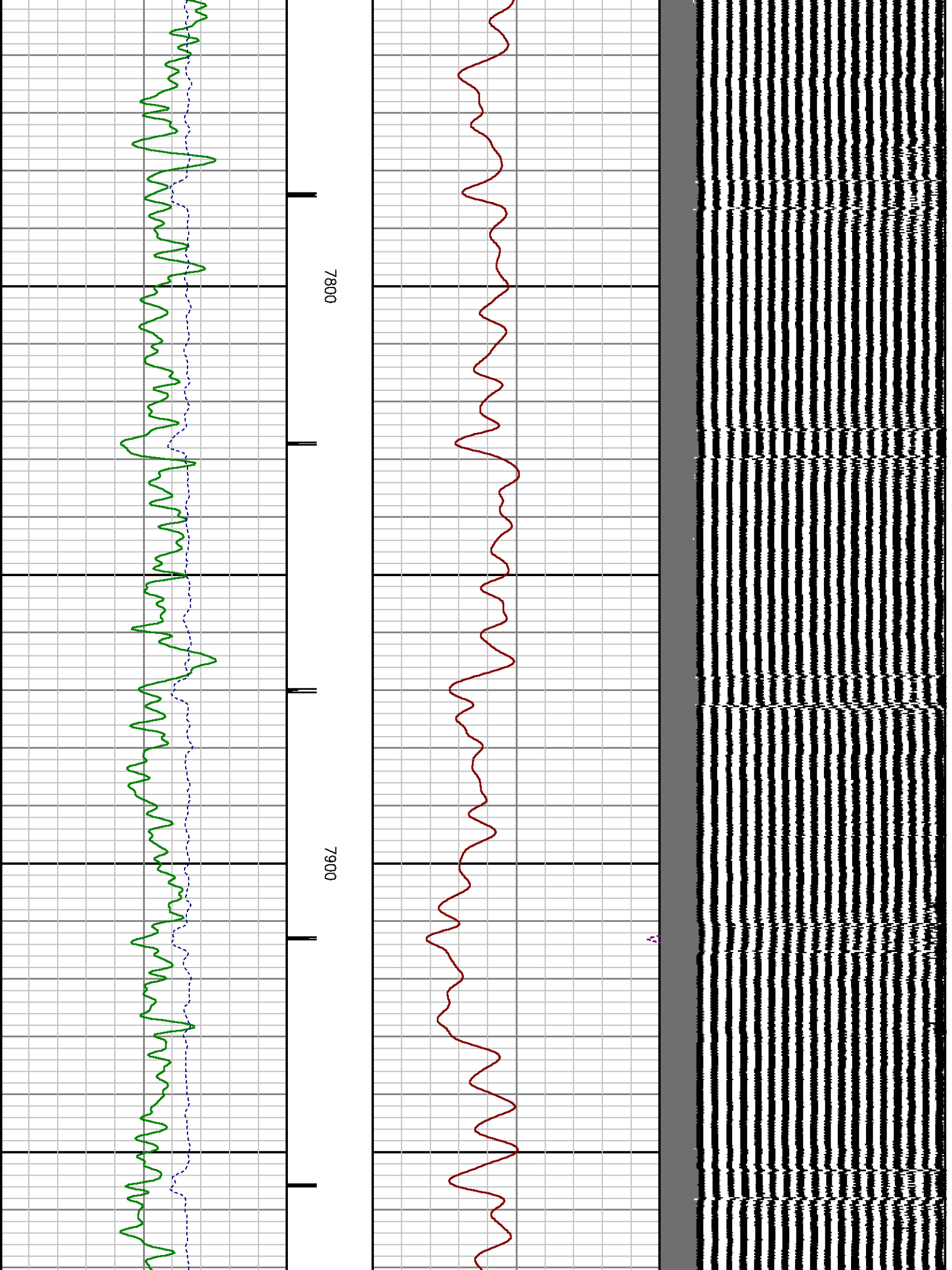


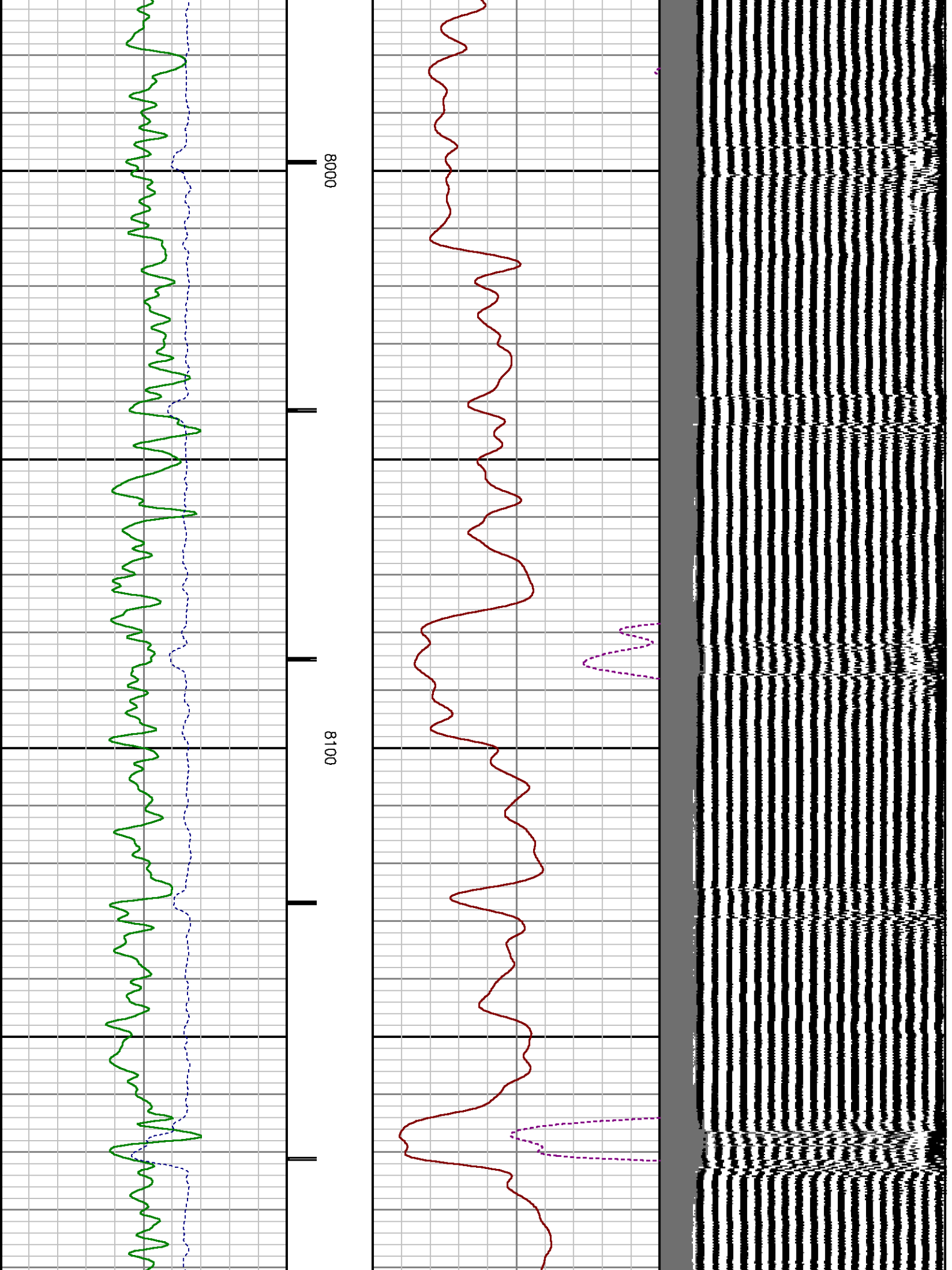


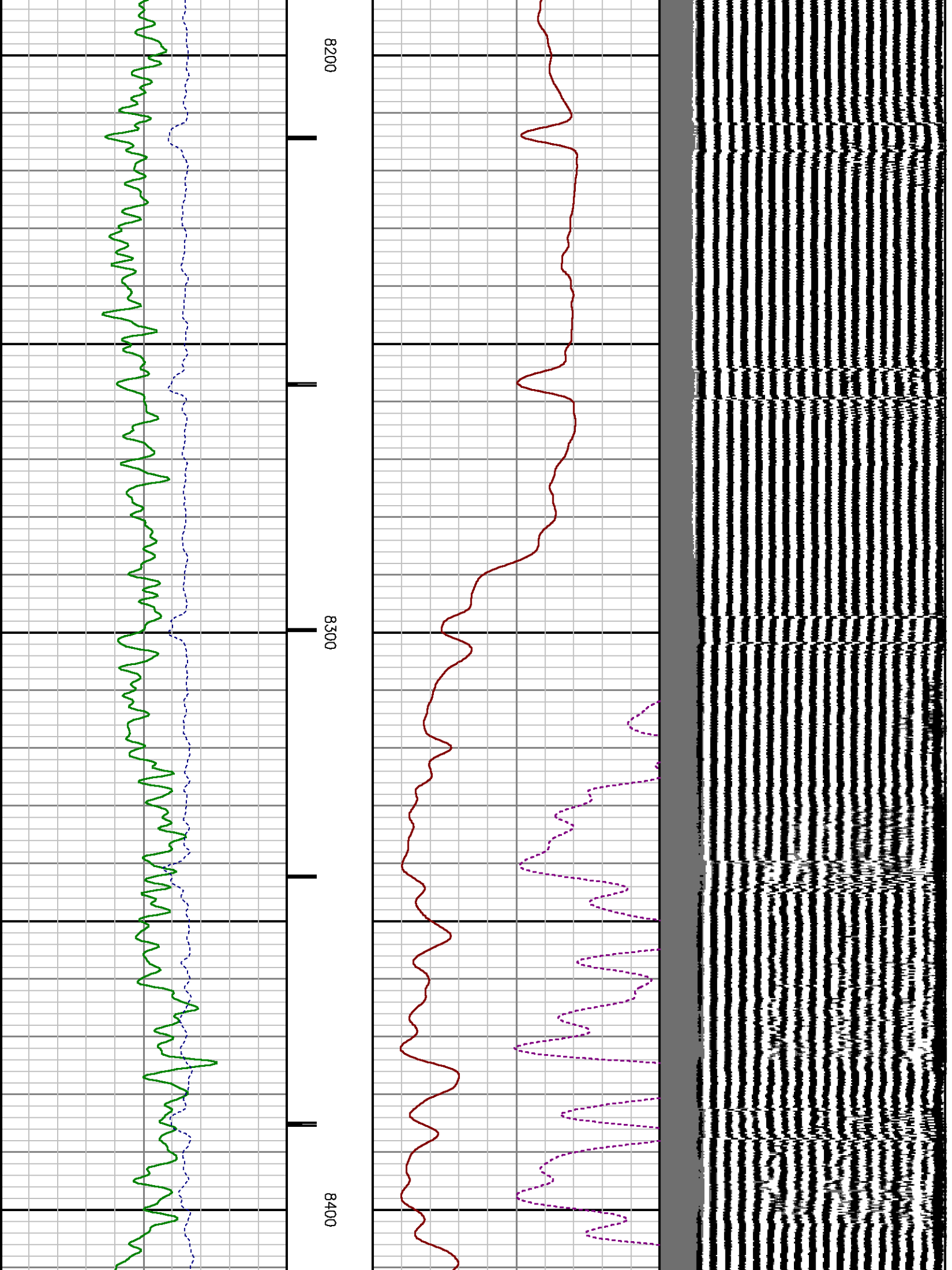


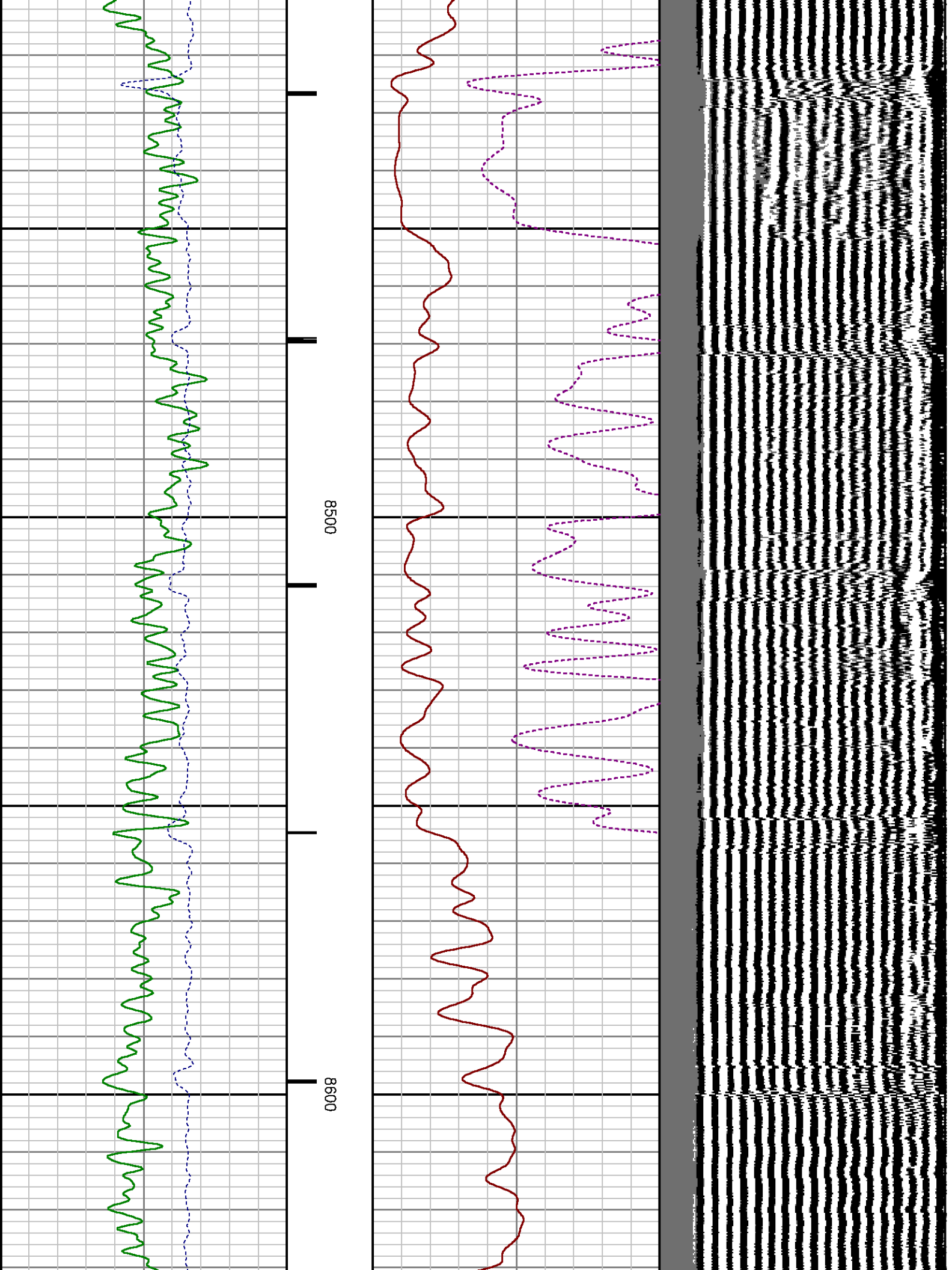


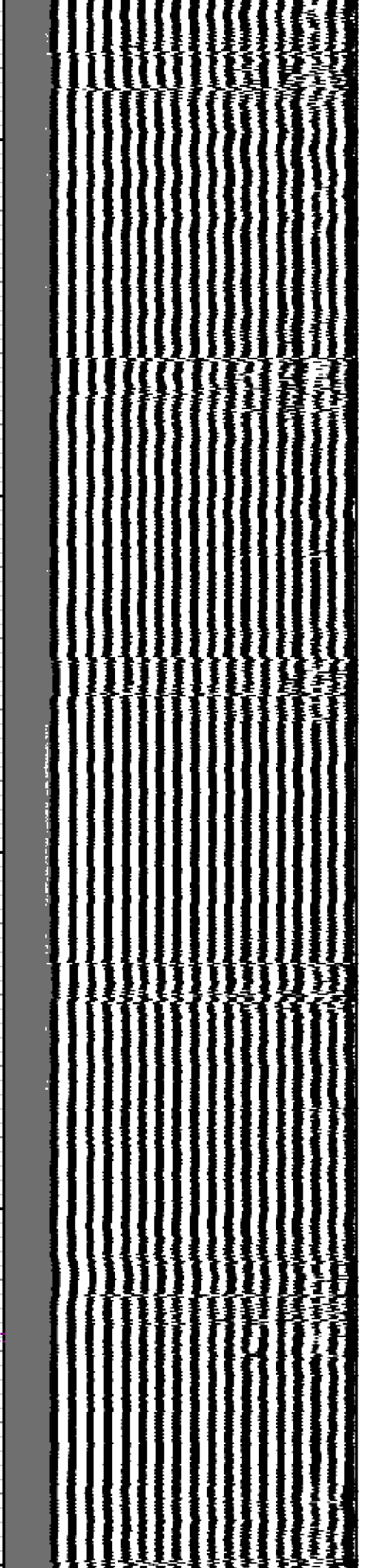
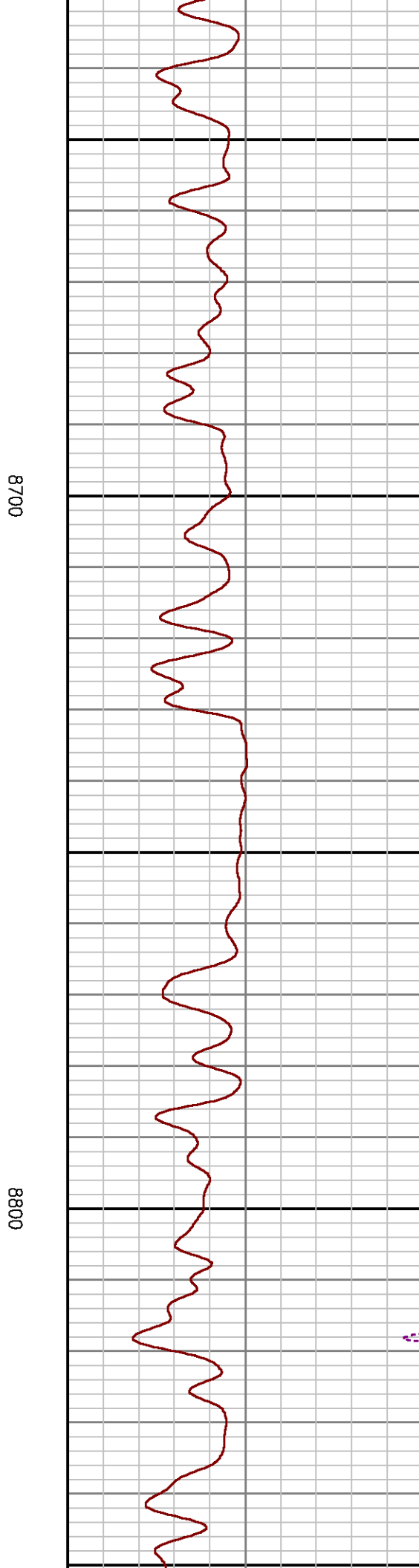
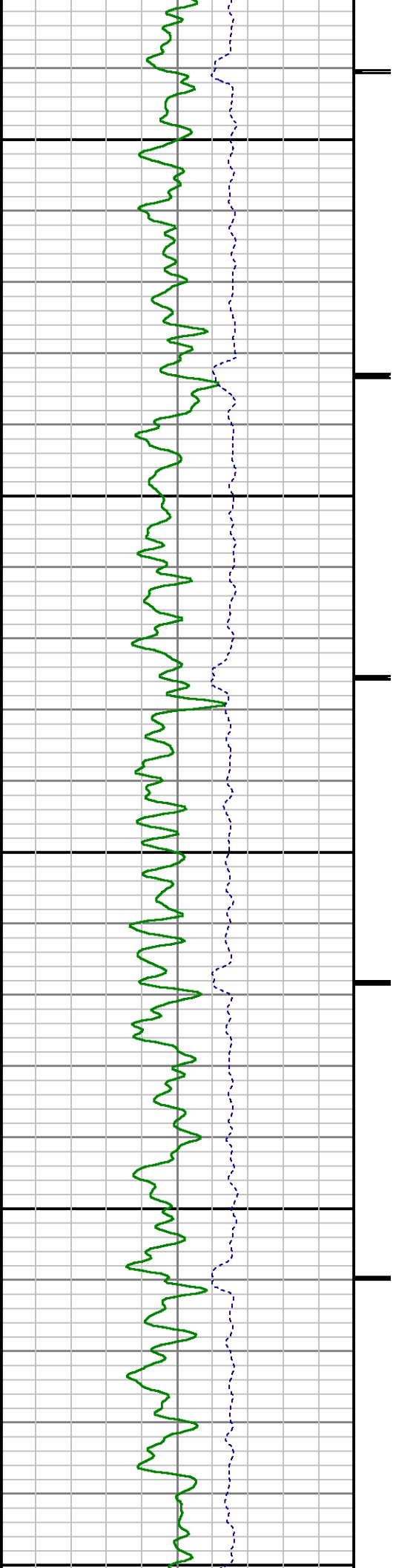


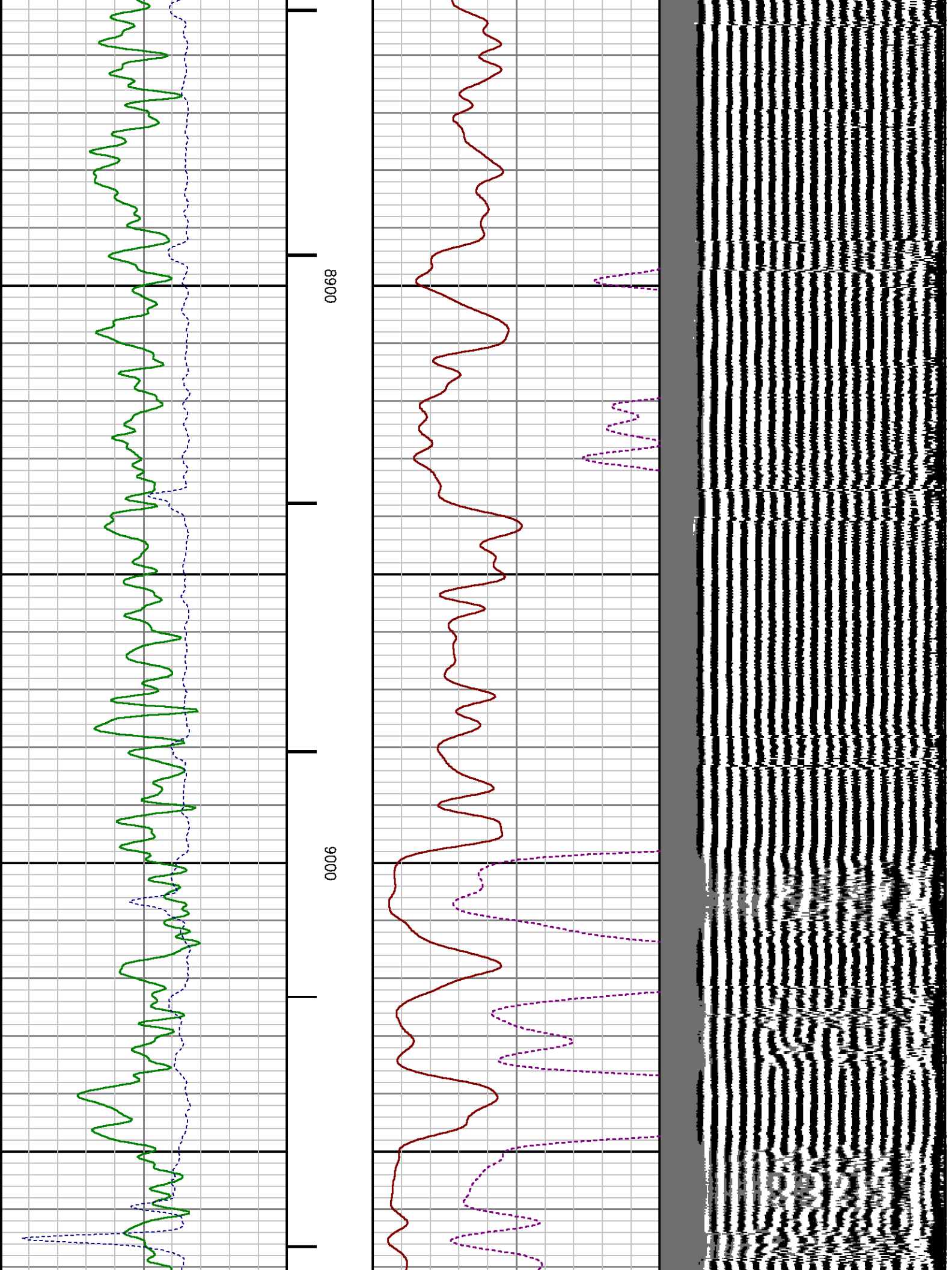


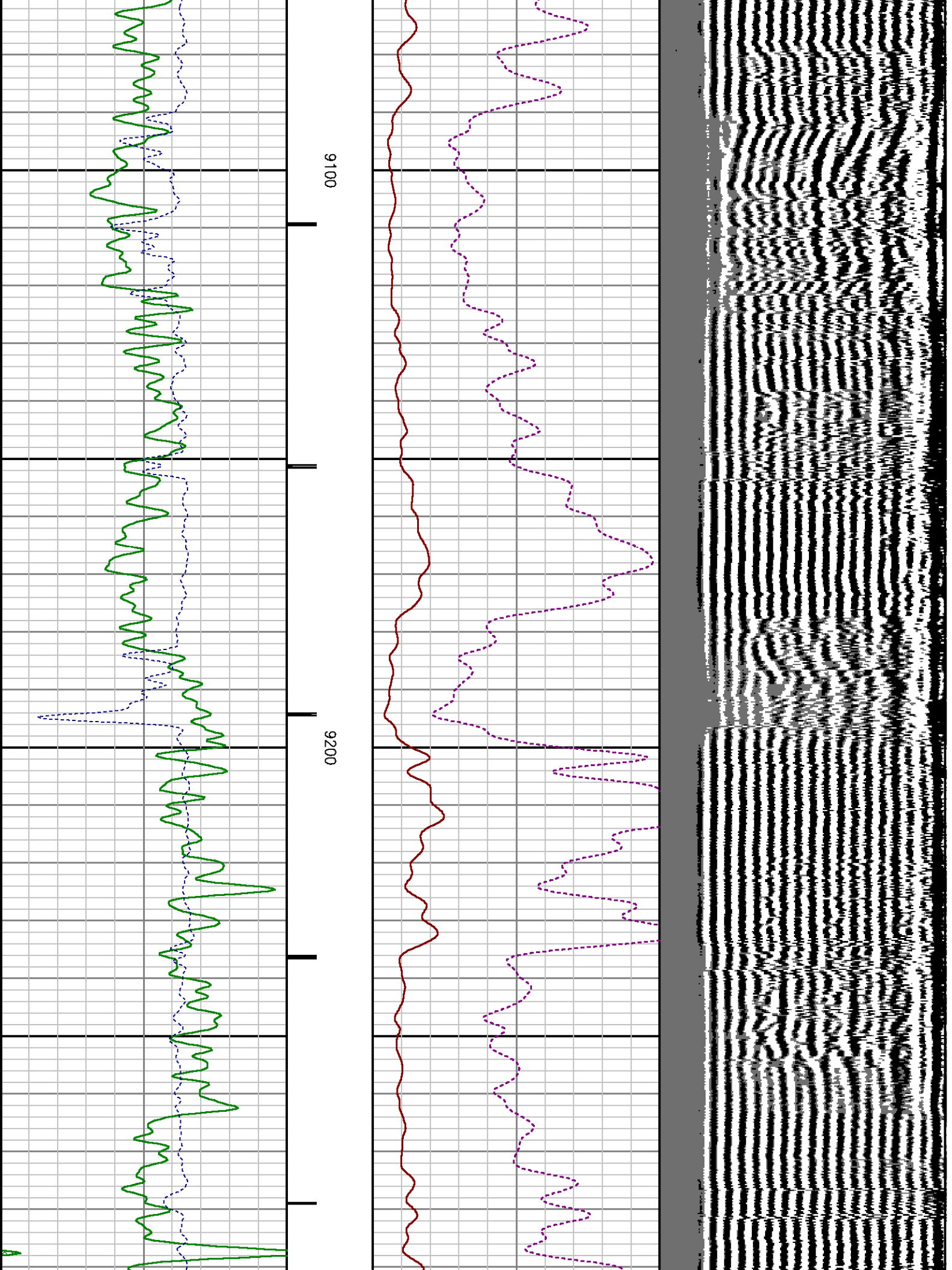


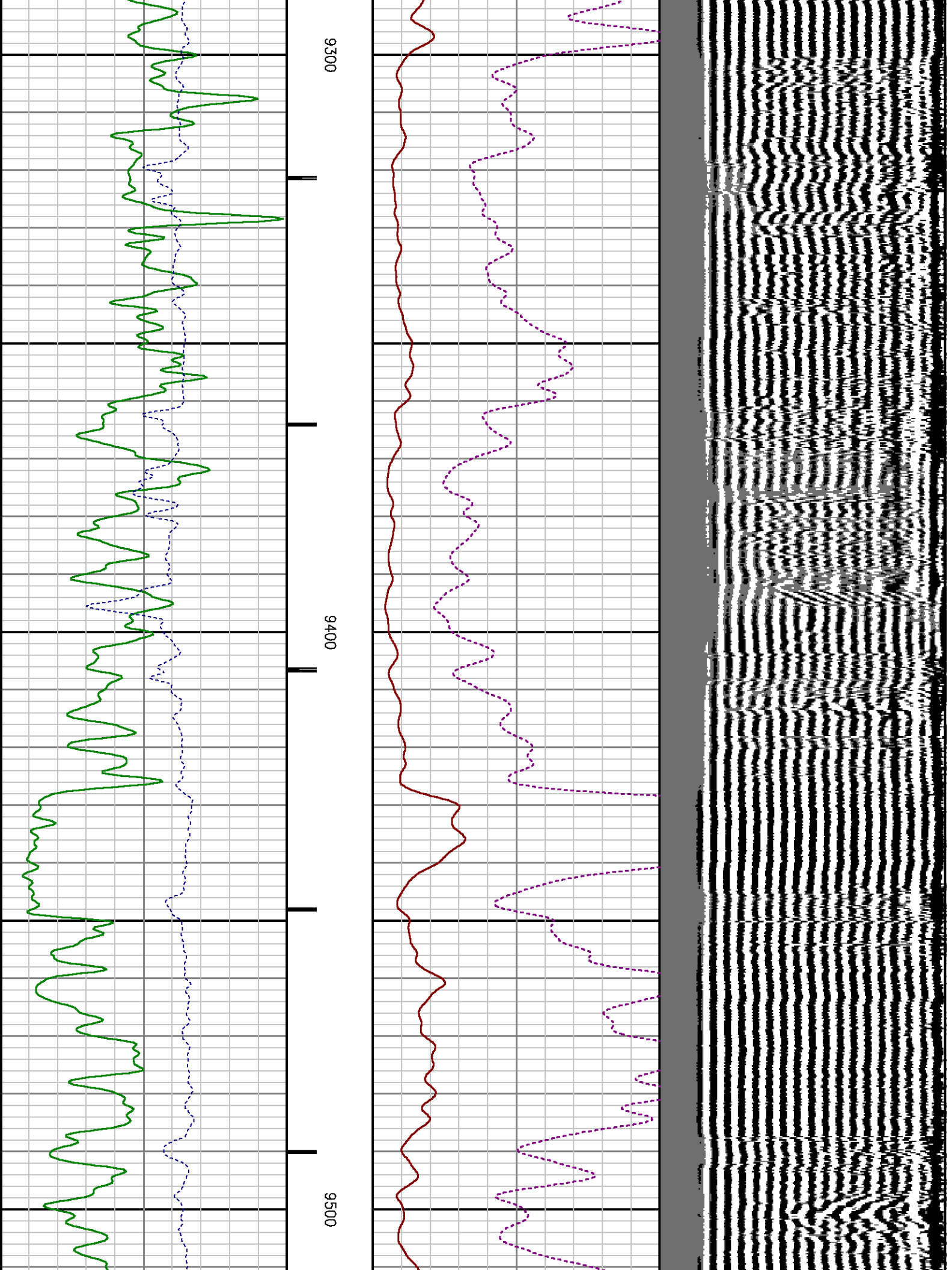


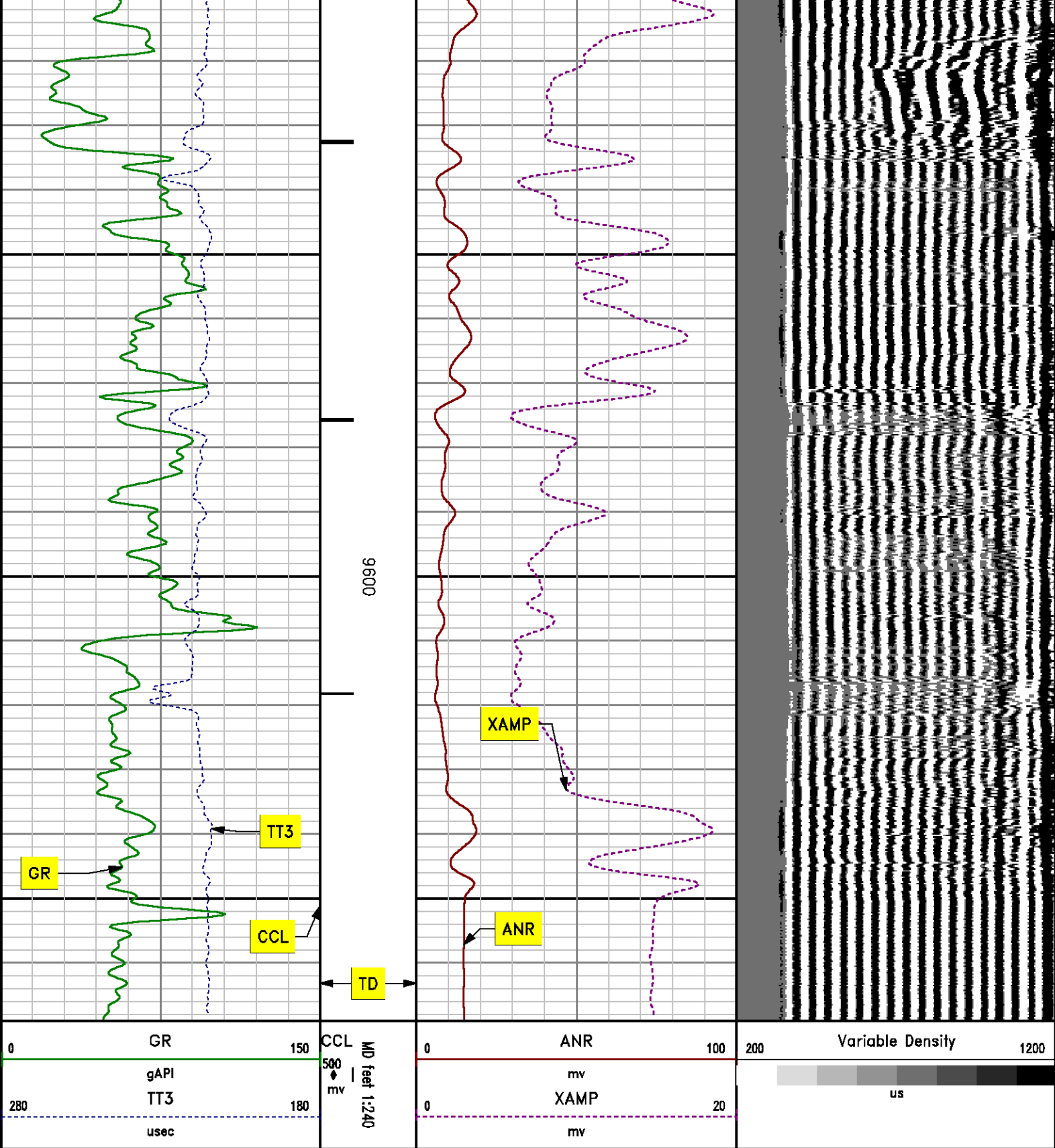












SECONDARY PRESENTATION
0 PSI

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | TOP | BOTTOM |
|------------------|-----------------------|---------|---------|----------|----------|
| RAL | Amp Gate Start Far | 320.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Start Near | 212.000 | usec | 4325.812 | 9689.000 |
| RAL | Amp Gate Start Radial | 212.000 | usec | 4325.812 | 9689.000 |
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| RAL | casing od | 5.500 | inches | 4325.812 | 9689.000 |
| RAL | casing wt | 20.000 | lbm/ft | 4325.812 | 9689.000 |
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| RAL | FB Thresh Radial | 4.000 | mv | 4325.812 | 9689.000 |
| RAL | Fluid Travel Time | 200.000 | usec/ft | 4325.812 | 9689.000 |

DEPTH OFFSETS

(for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES | | | | | |
|--------|--------------|-----------------|------|------|------|------|------|
| 1426XA | -16.750 | ACAL | ANR | AR1 | AR2 | AR3 | AR4 |
| | | AR5 | AR6 | AR7 | AR8 | CHV | FPR2 |
| | | FPR3 | FPR5 | TT3 | TTR1 | TTR2 | TTR3 |
| | | TTR4 | TTR5 | TTR6 | TTR7 | TTR8 | XAMP |
| 1426XA | -15.750 | AFAR | SIG | TT5 | | | |
| 2459XA | -11.340 | CCL | | | | | |
| 2459XA | -9.490 | GR | | | | | |
| 2459XA | -4.090 | NEU | | | | | |

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : MESA ENERGY LLC

Well : COYOTE BASIN 29-12-397

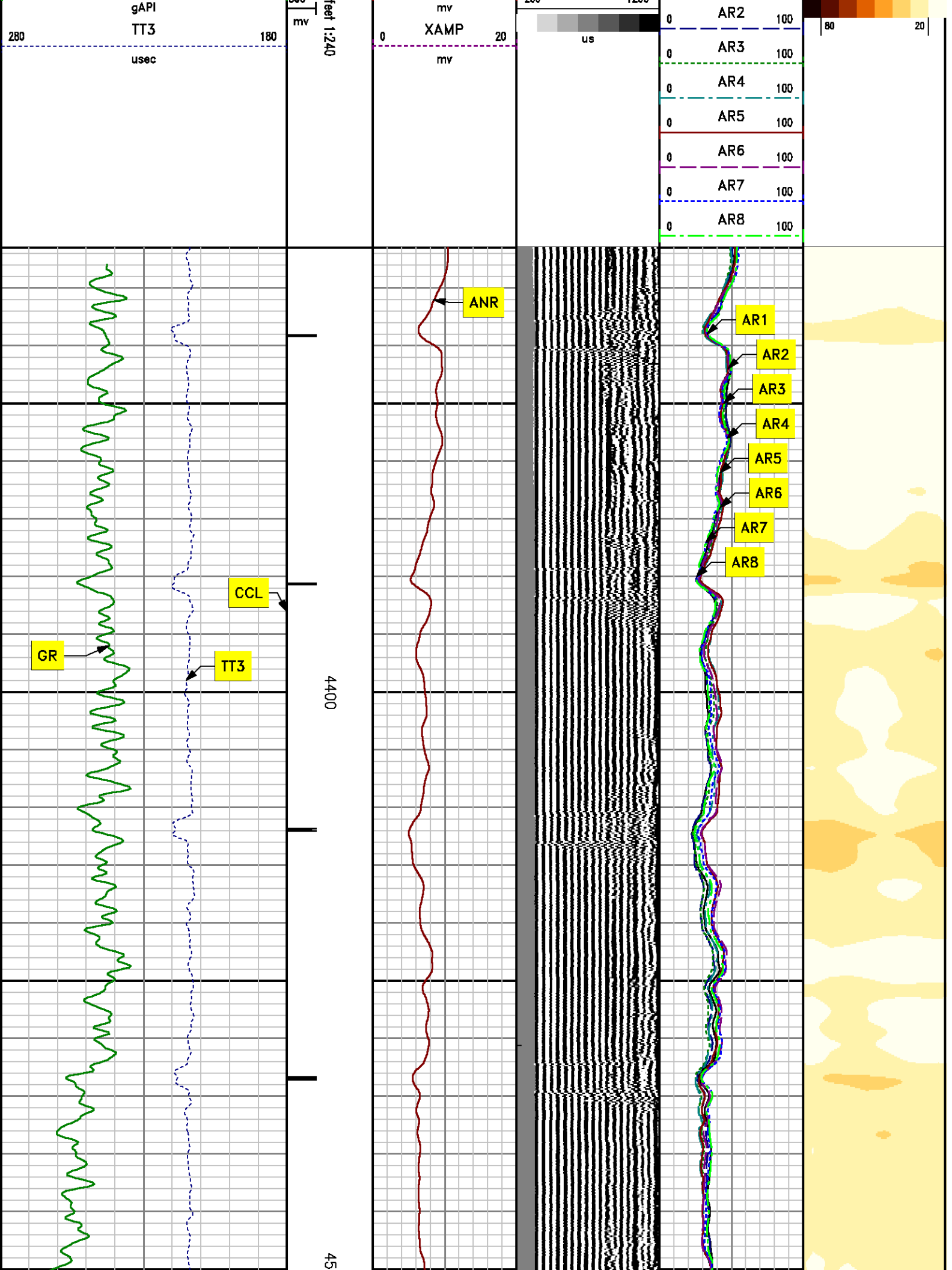
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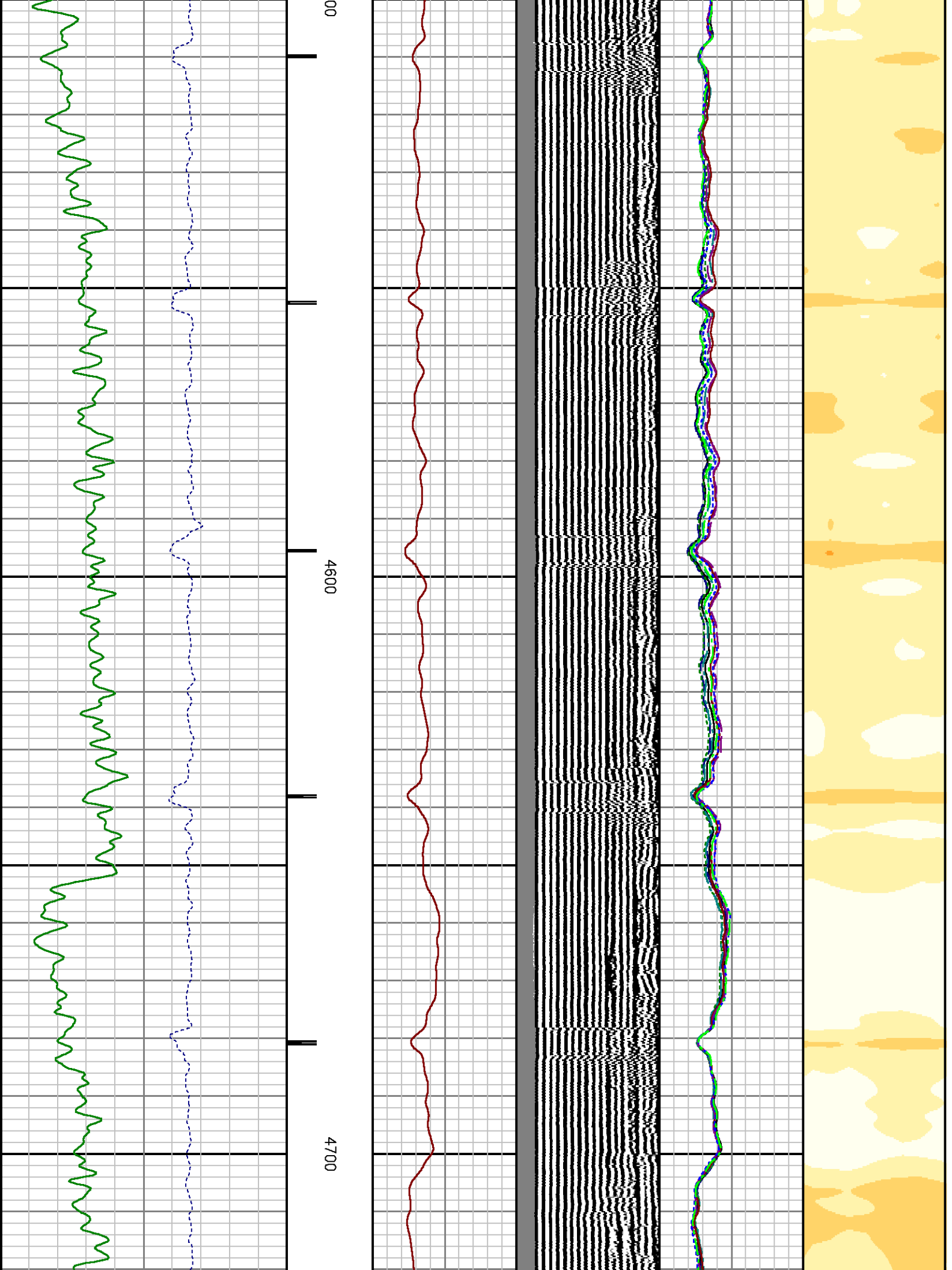
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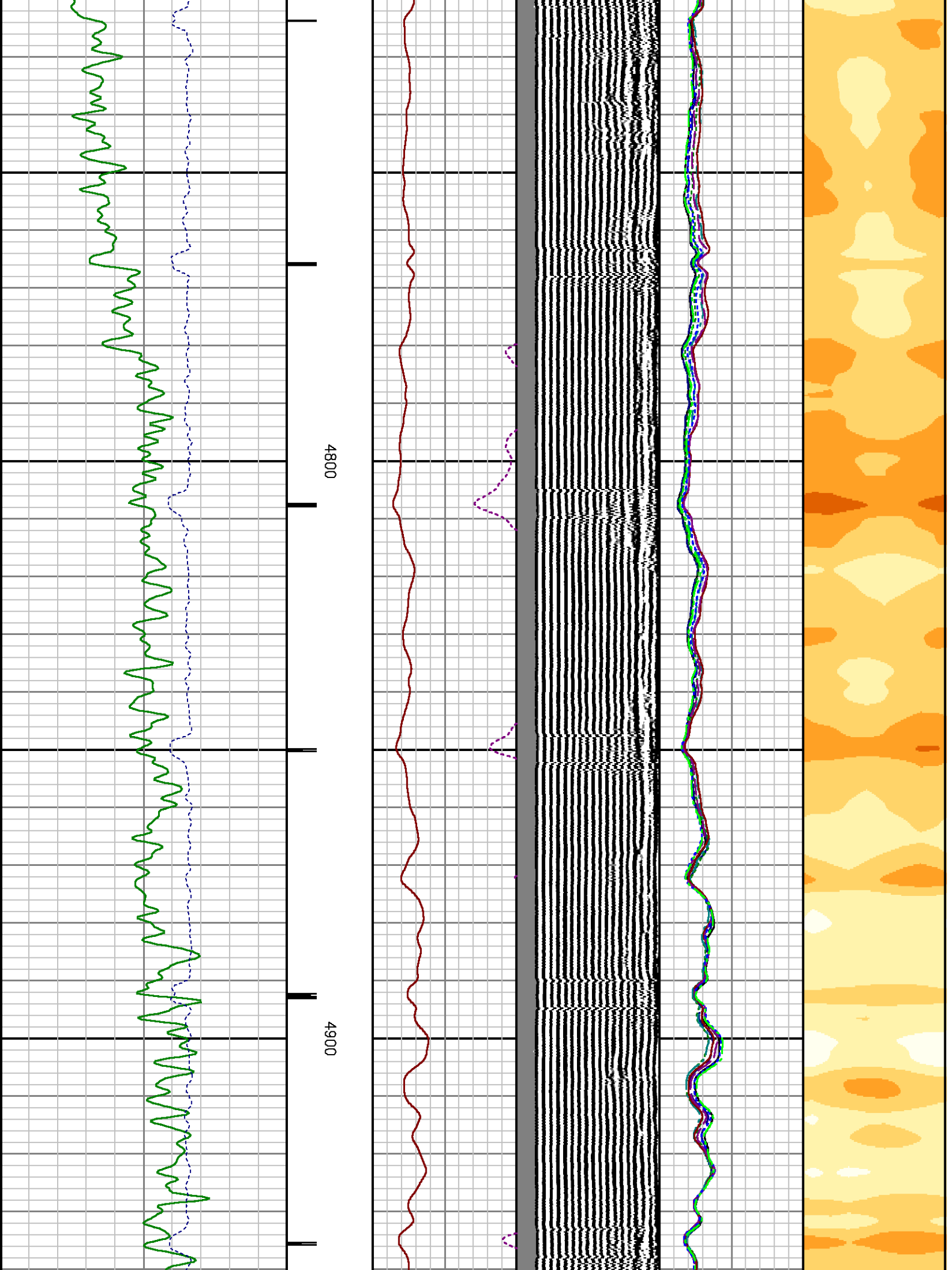
Interval : 4323.00 - 9669.00 feet UP

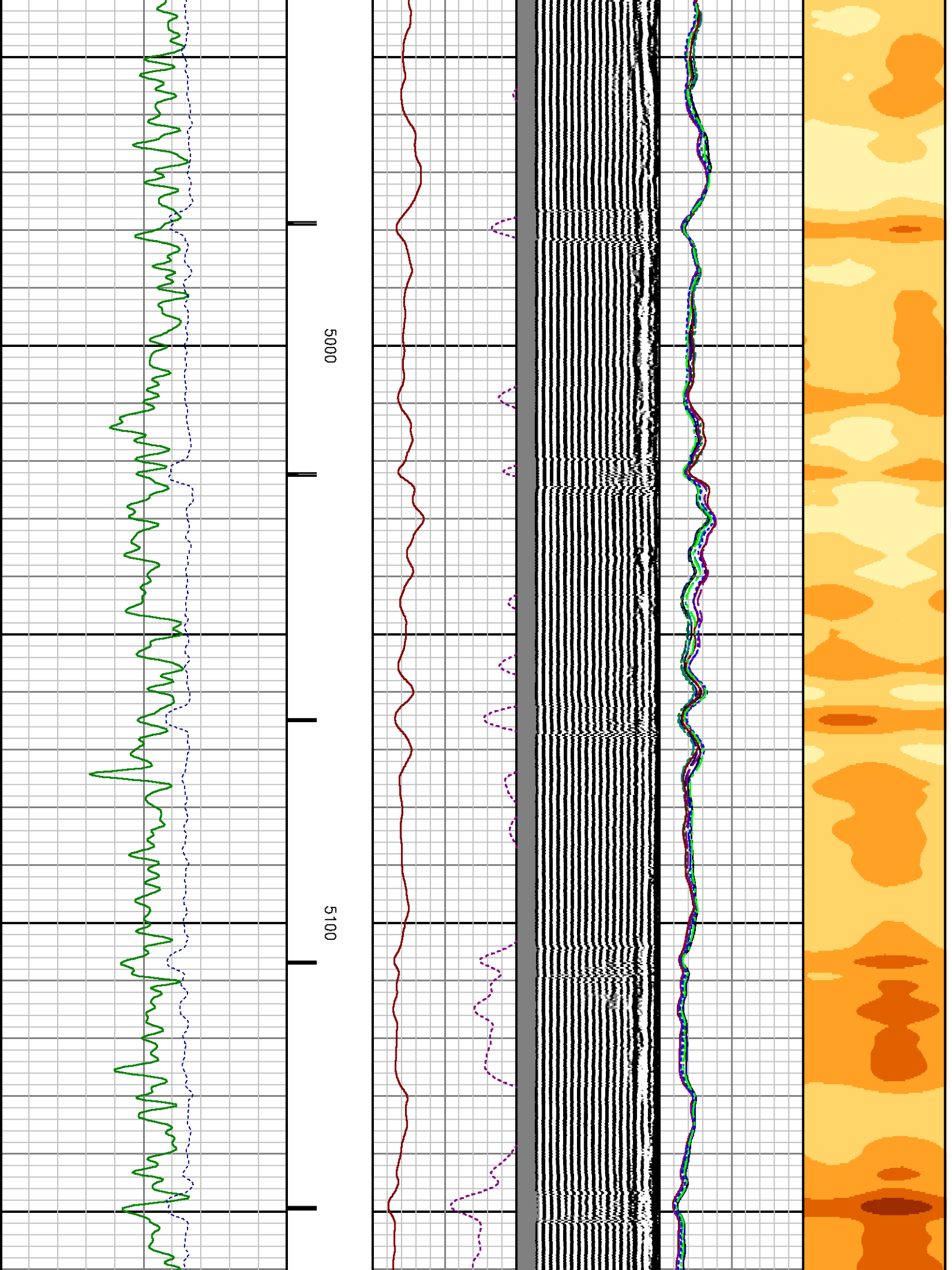
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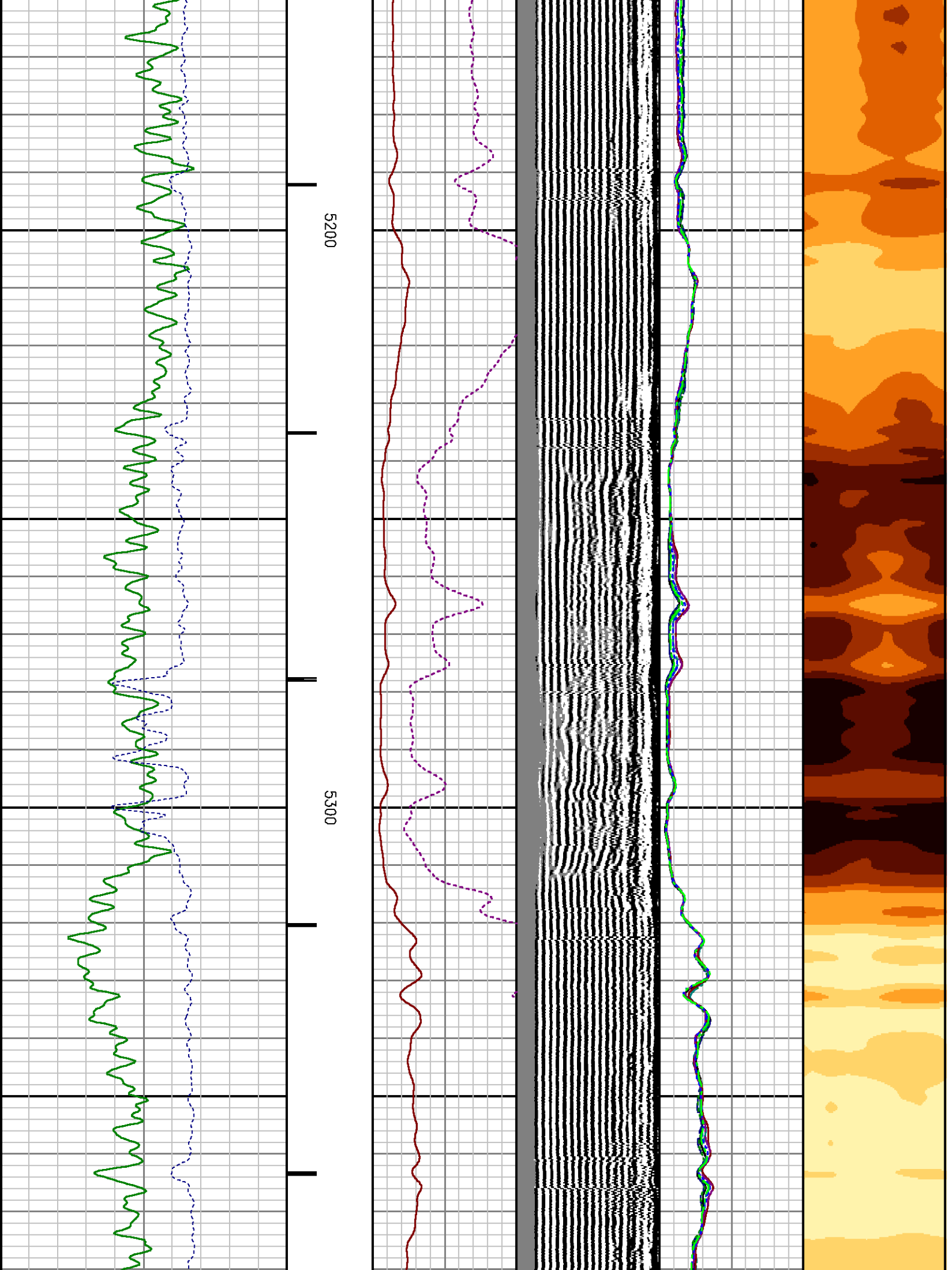
| | | | | | | | | | | | | | | | | | |
|---|----|-----|-----|-----|----|---|-----|-----|------------------|-----|------|---|-----|-----|---|-------|-----|
| 0 | GR | 150 | CCL | 500 | CM | 0 | ANR | 100 | Variable Density | 200 | 1200 | 0 | AR1 | 100 | 0 | PBMAP | 360 |
|---|----|-----|-----|-----|----|---|-----|-----|------------------|-----|------|---|-----|-----|---|-------|-----|

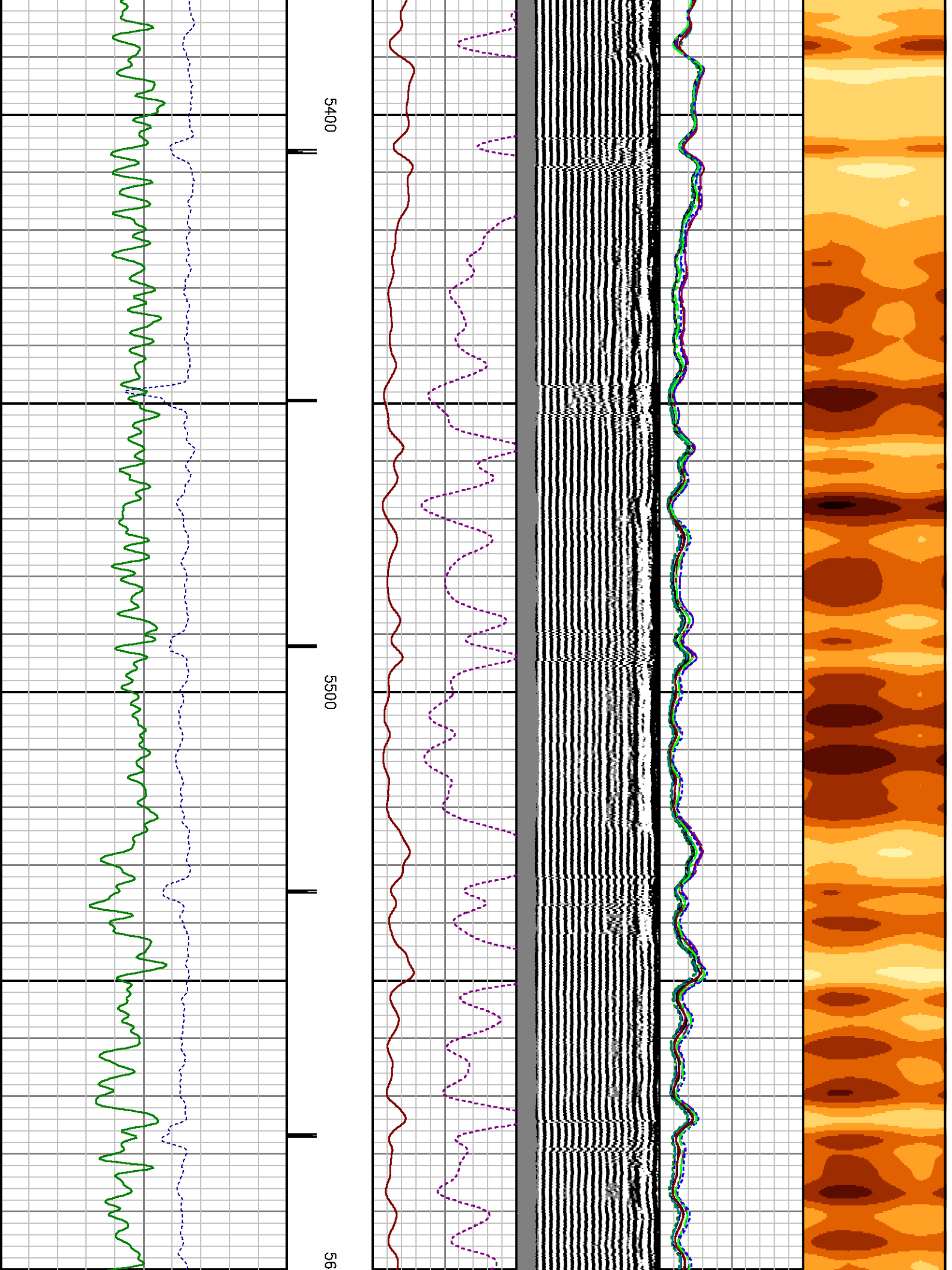


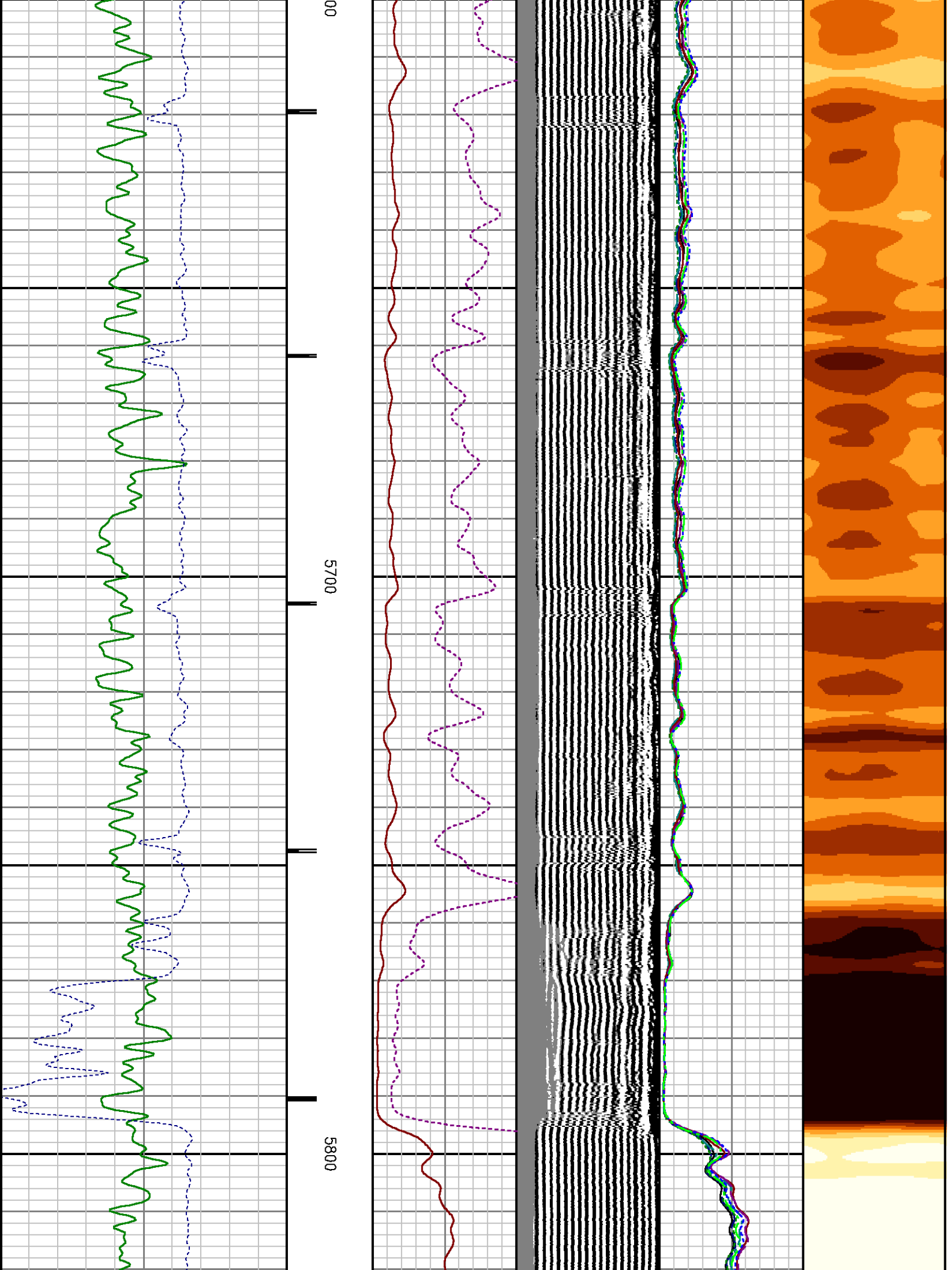


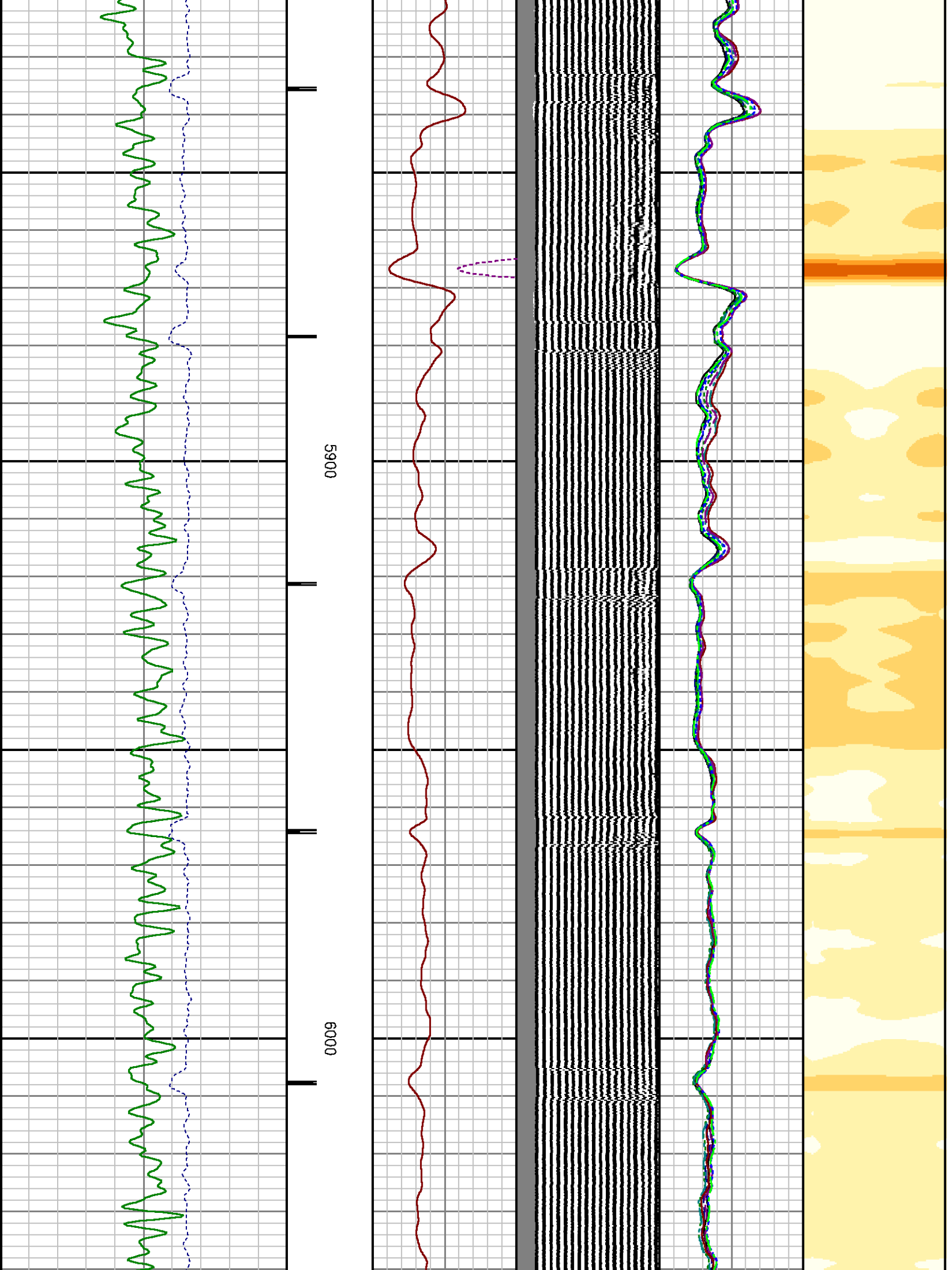


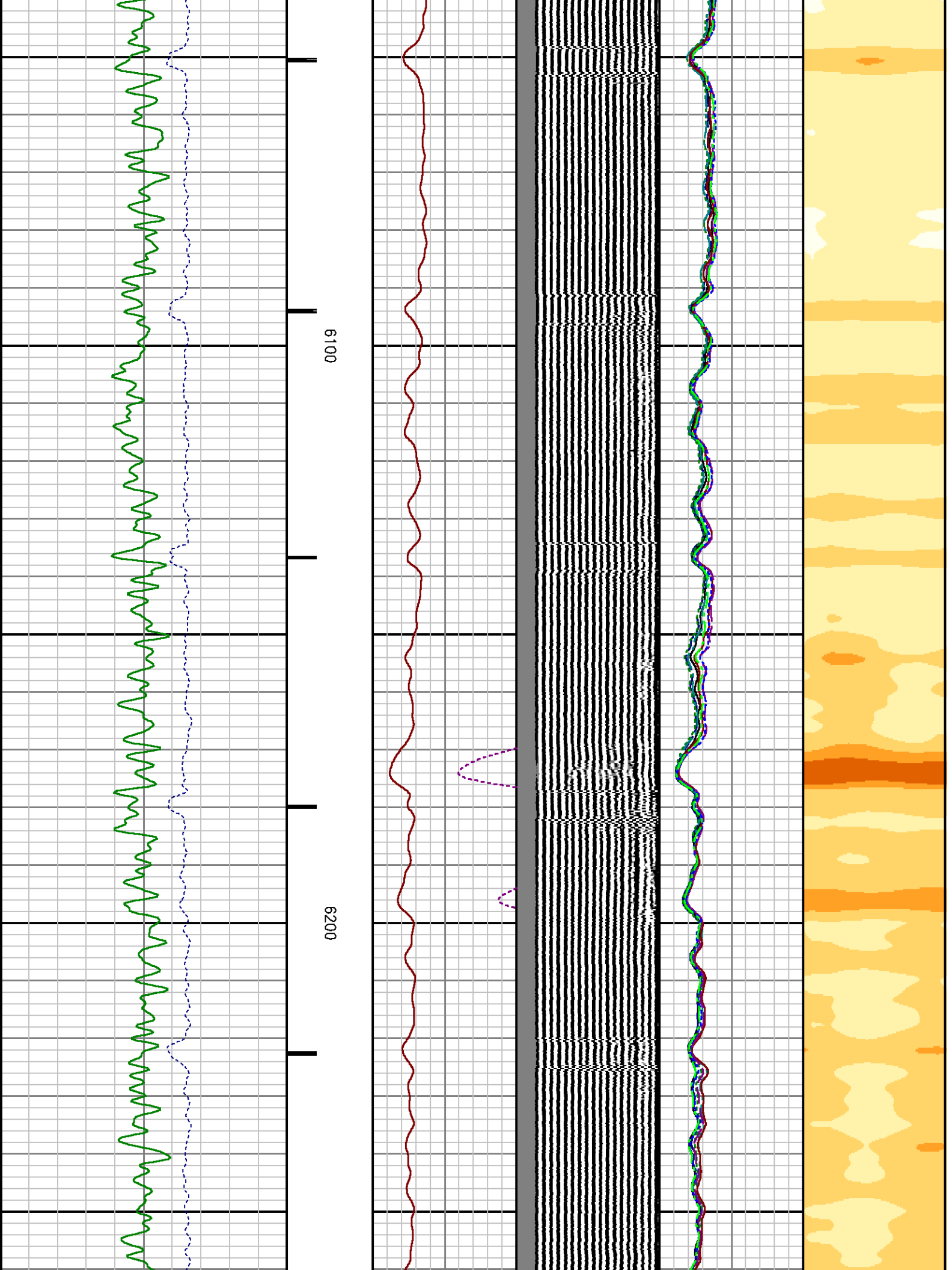


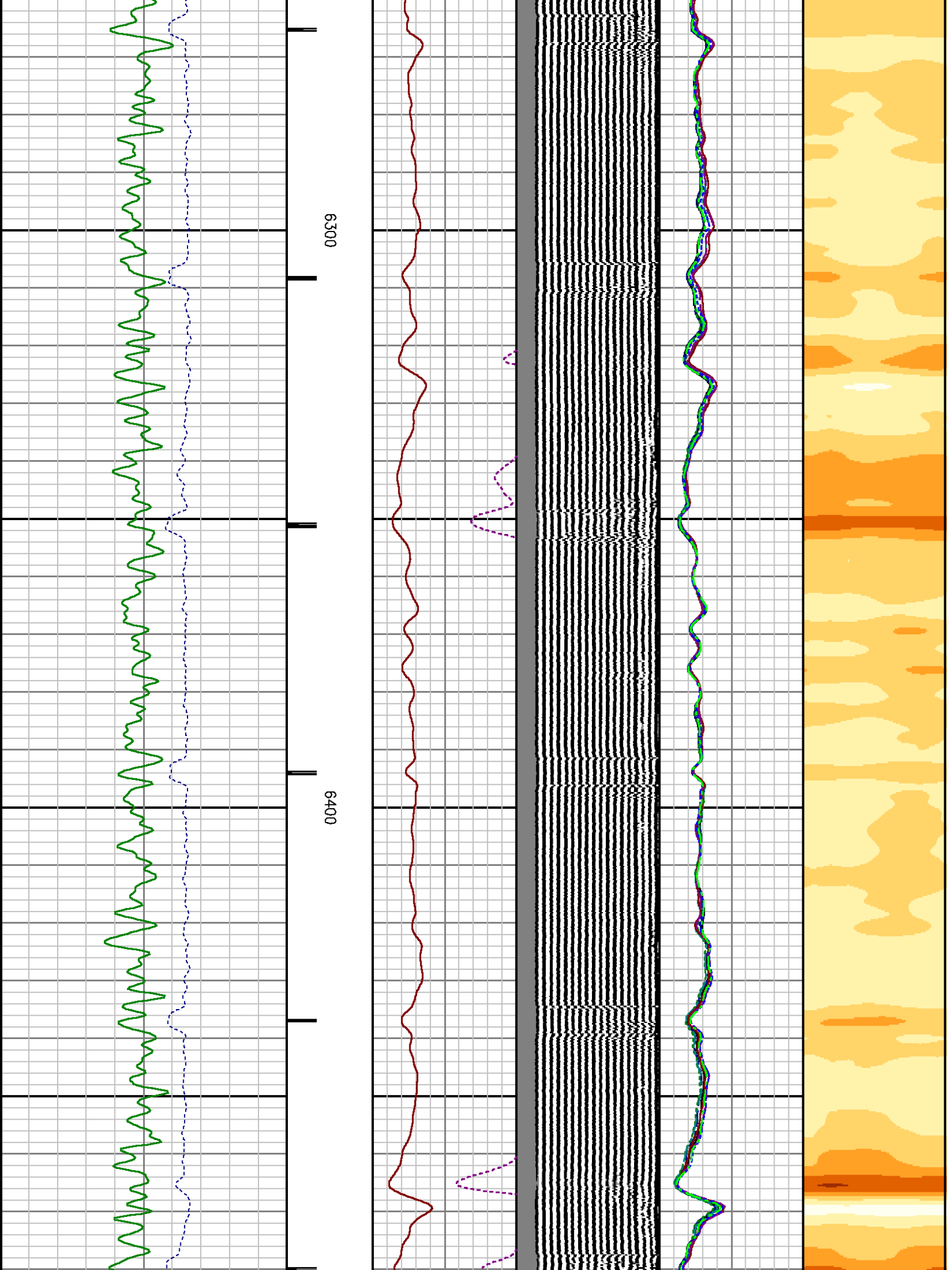


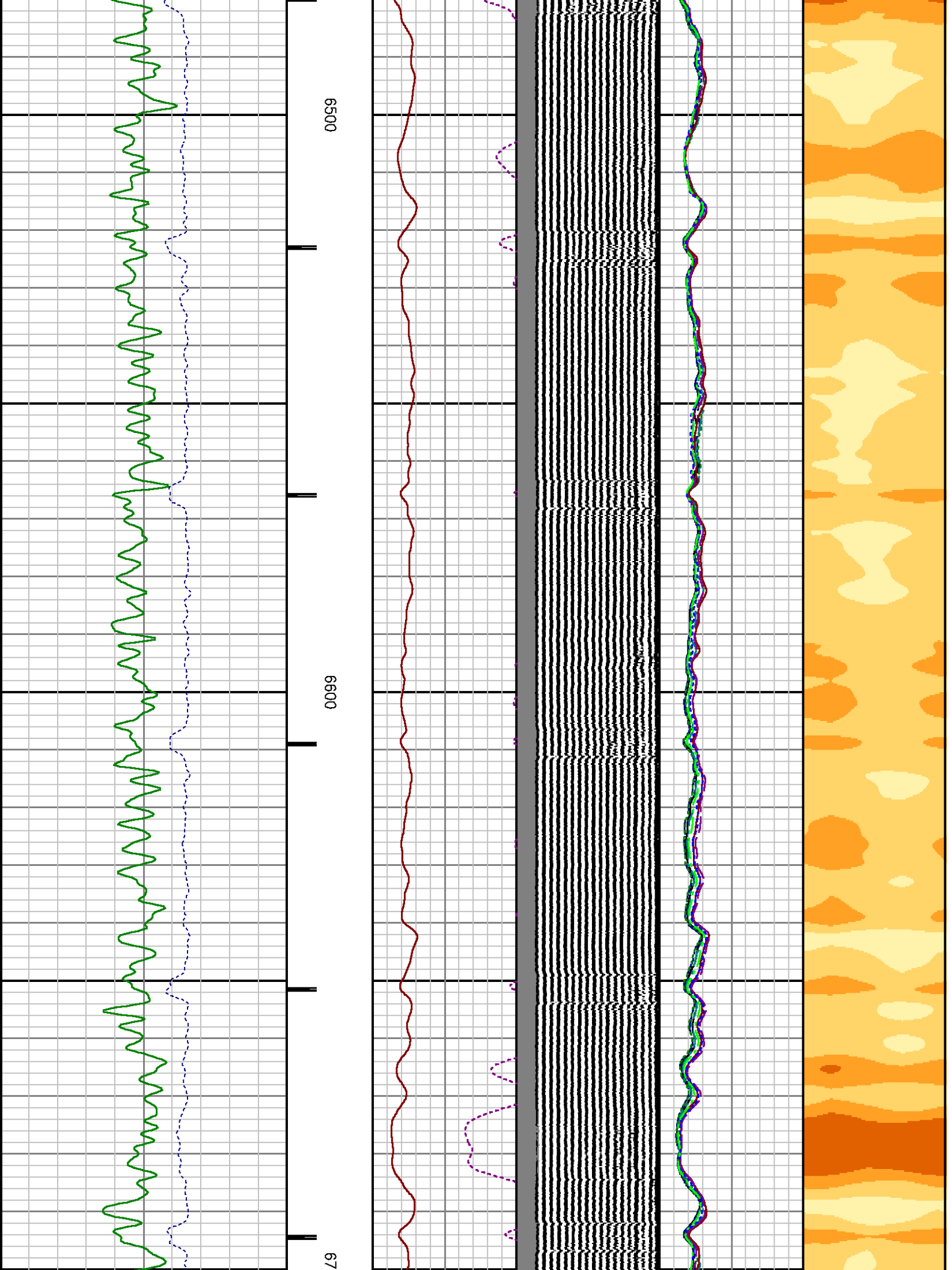


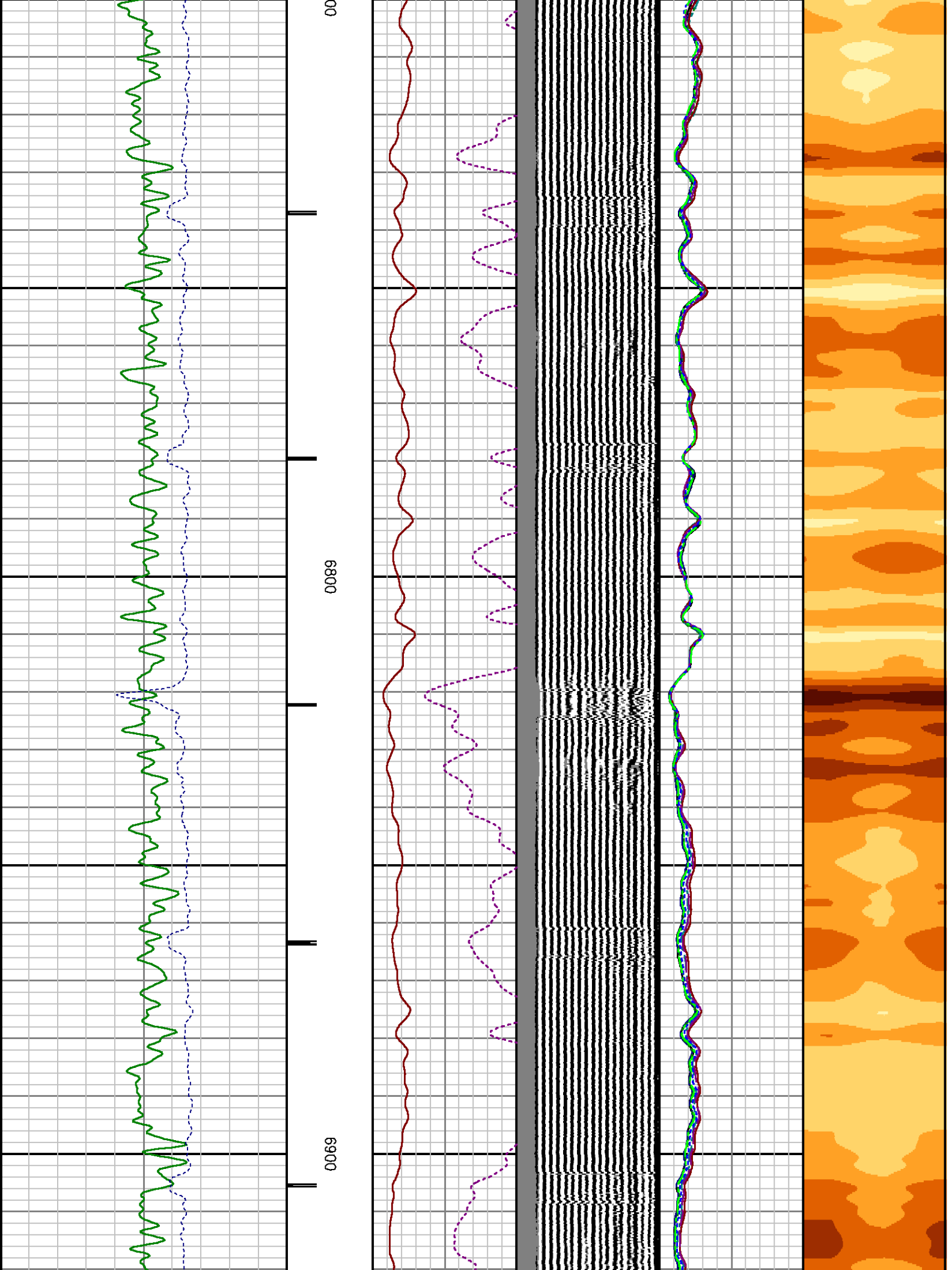


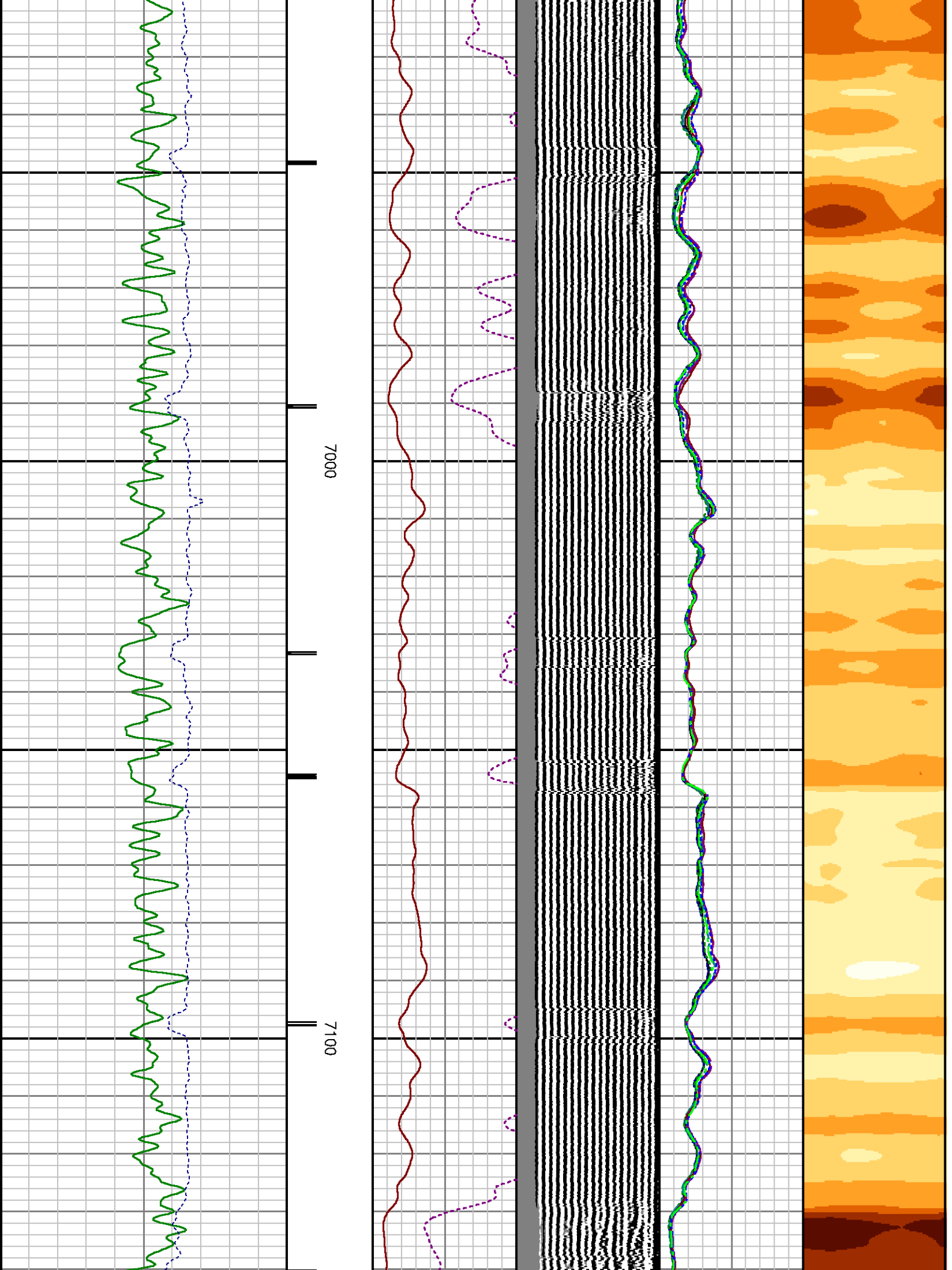


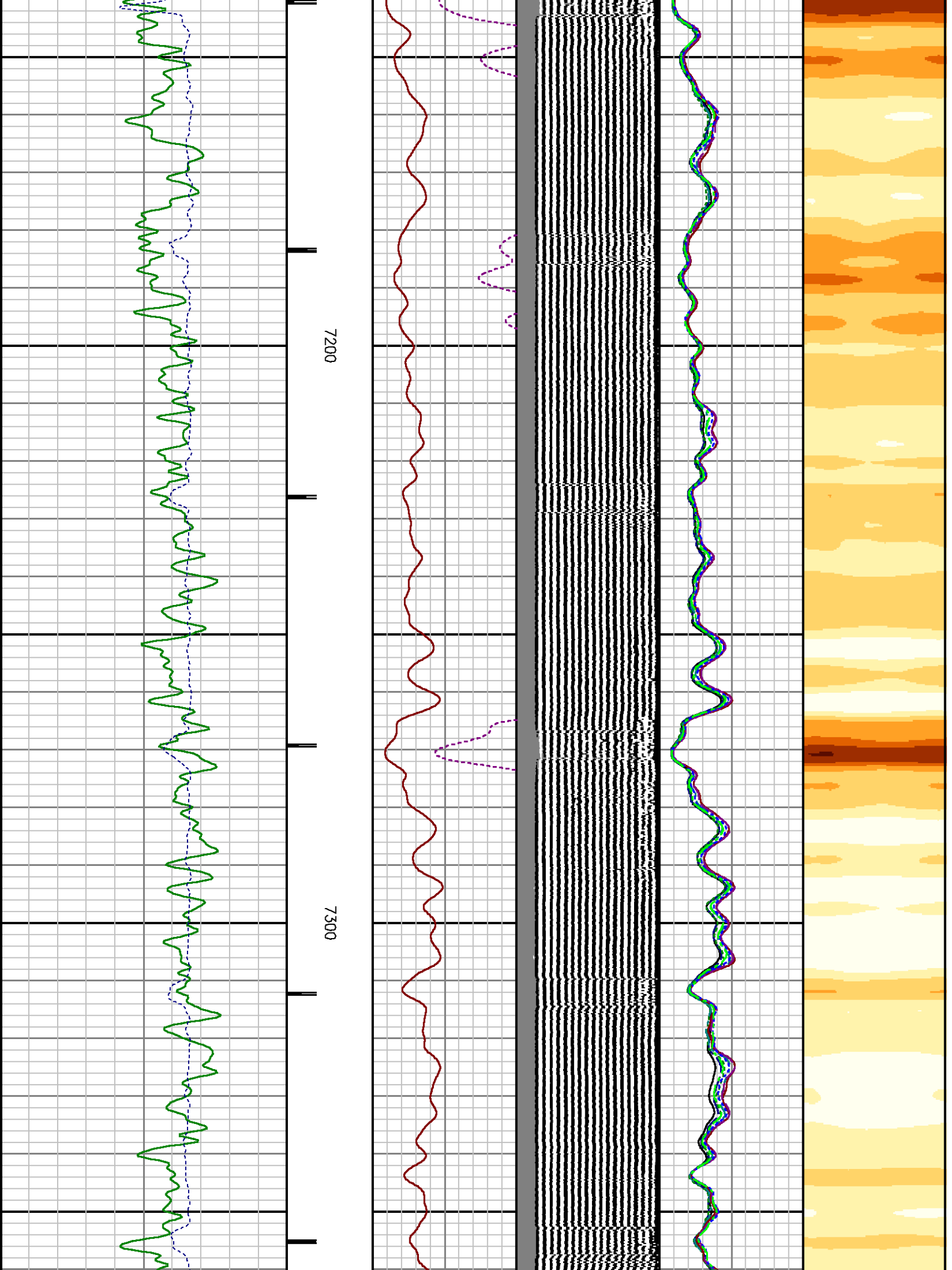


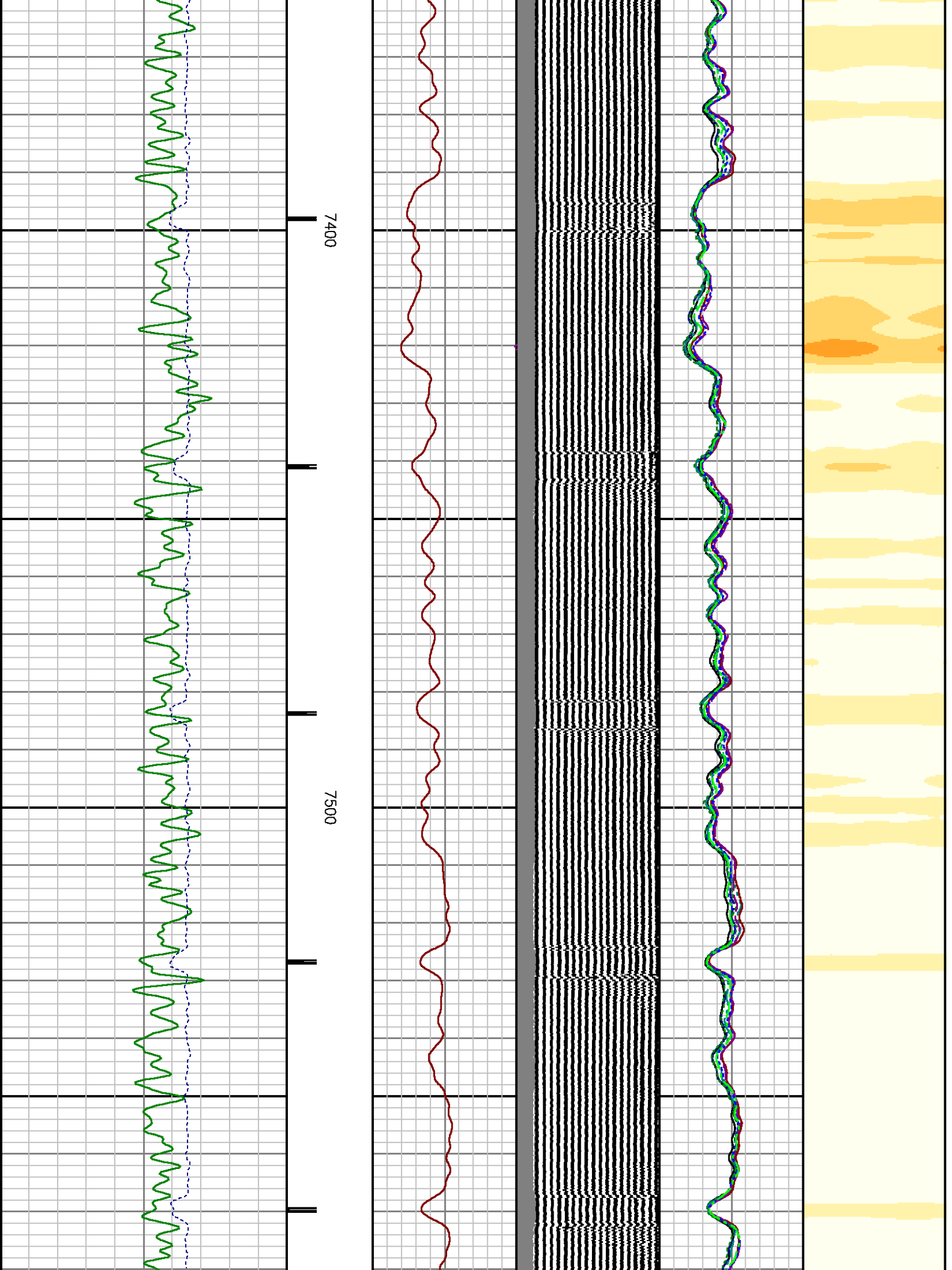


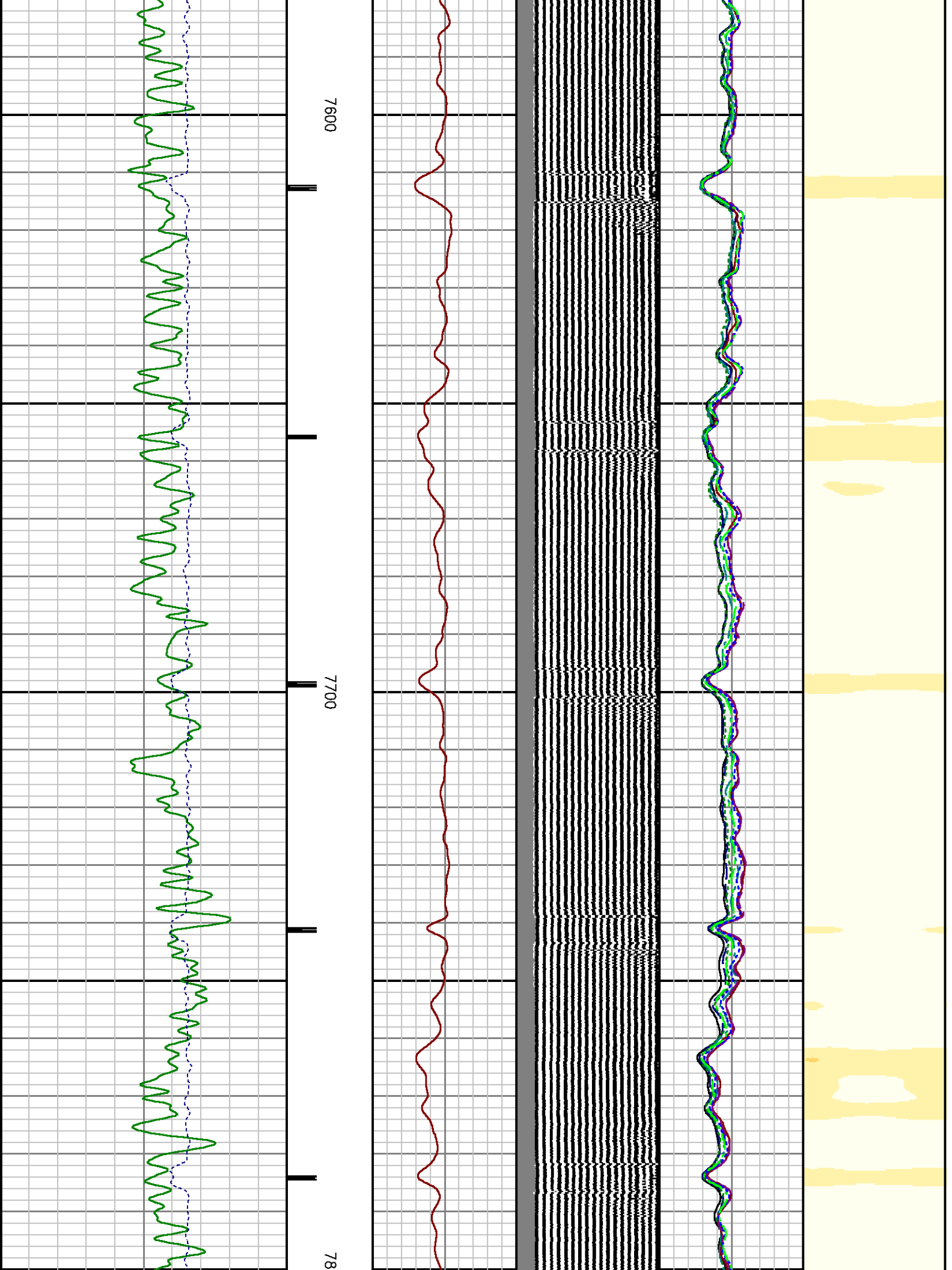


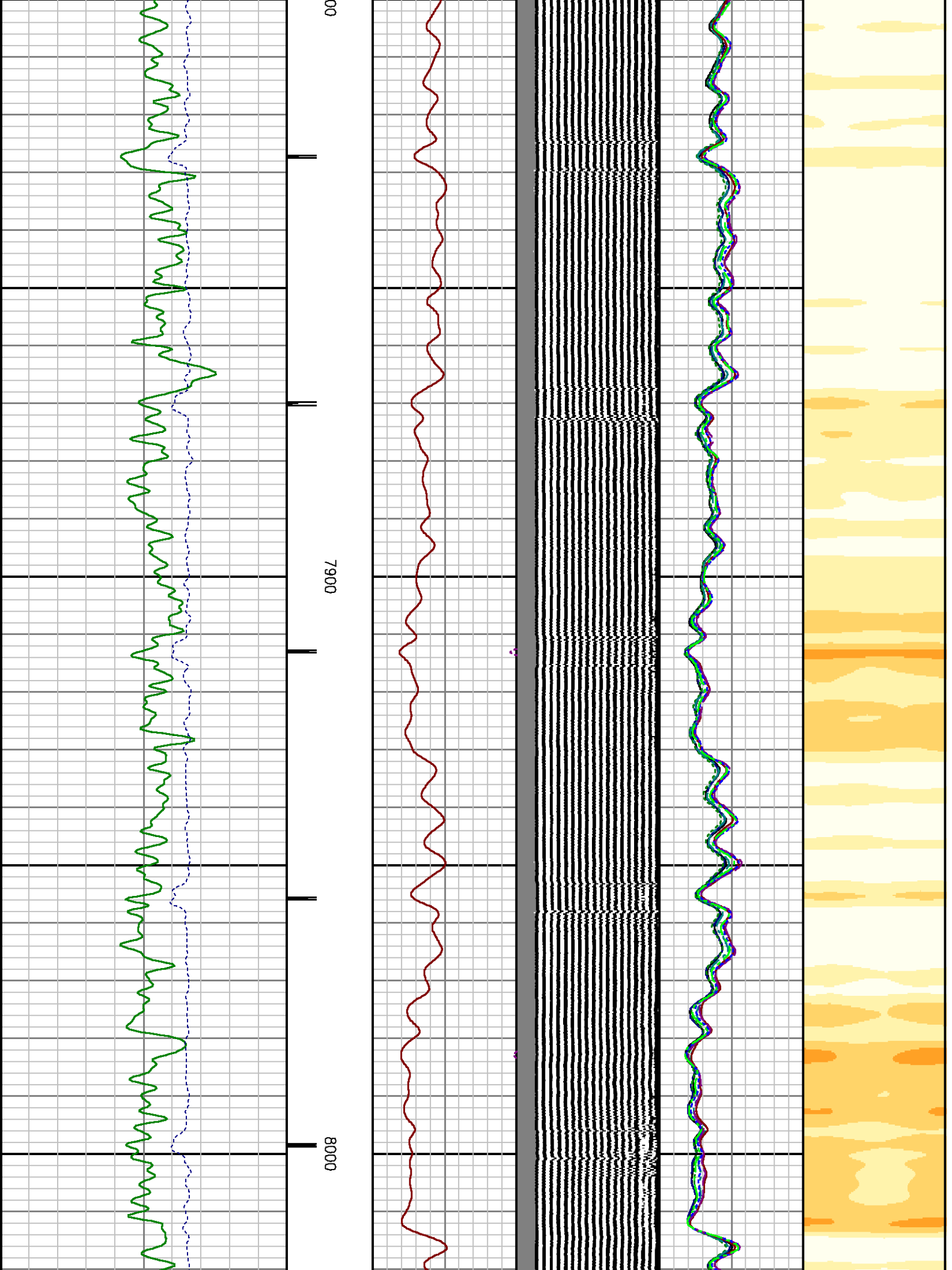


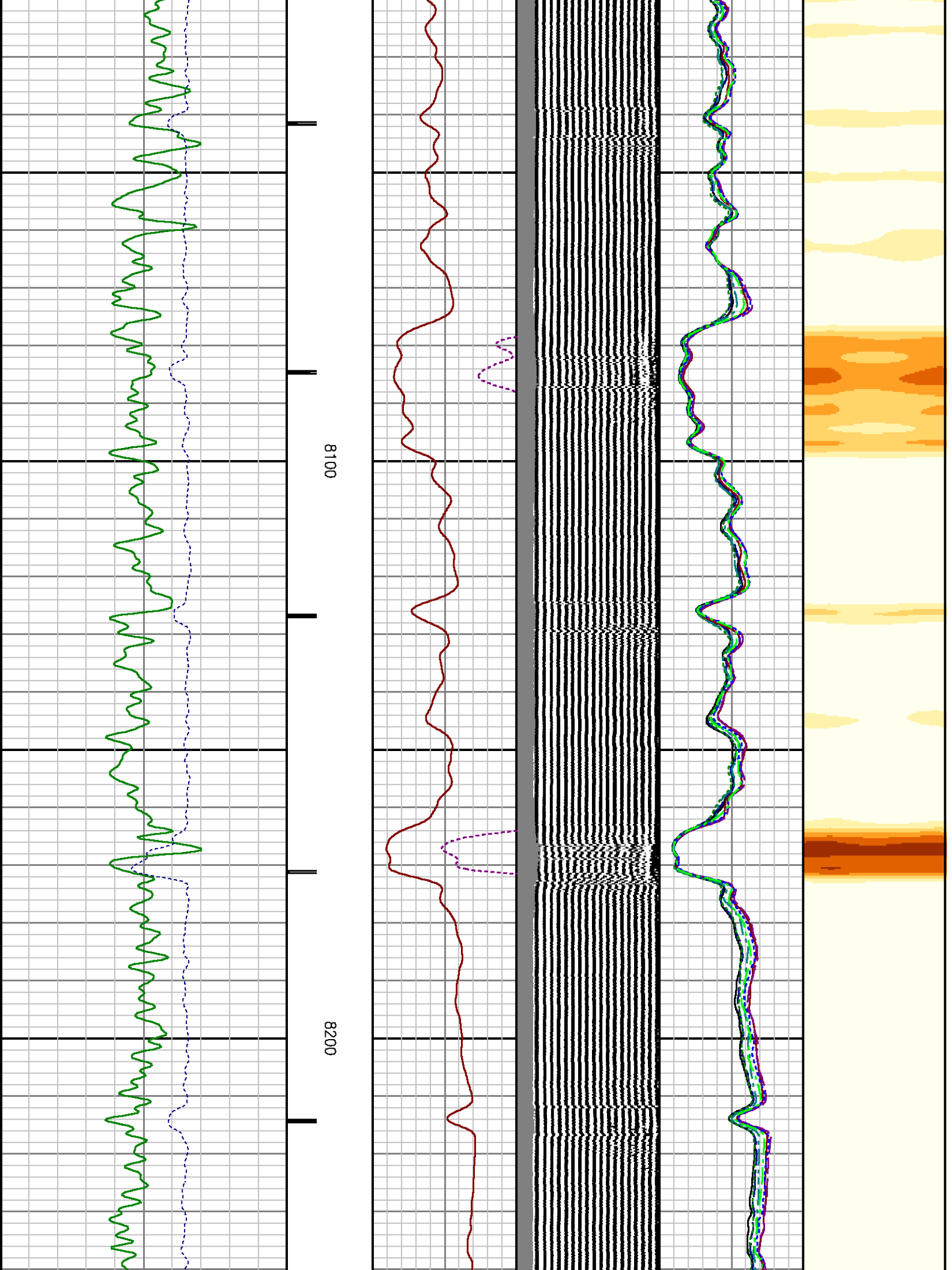


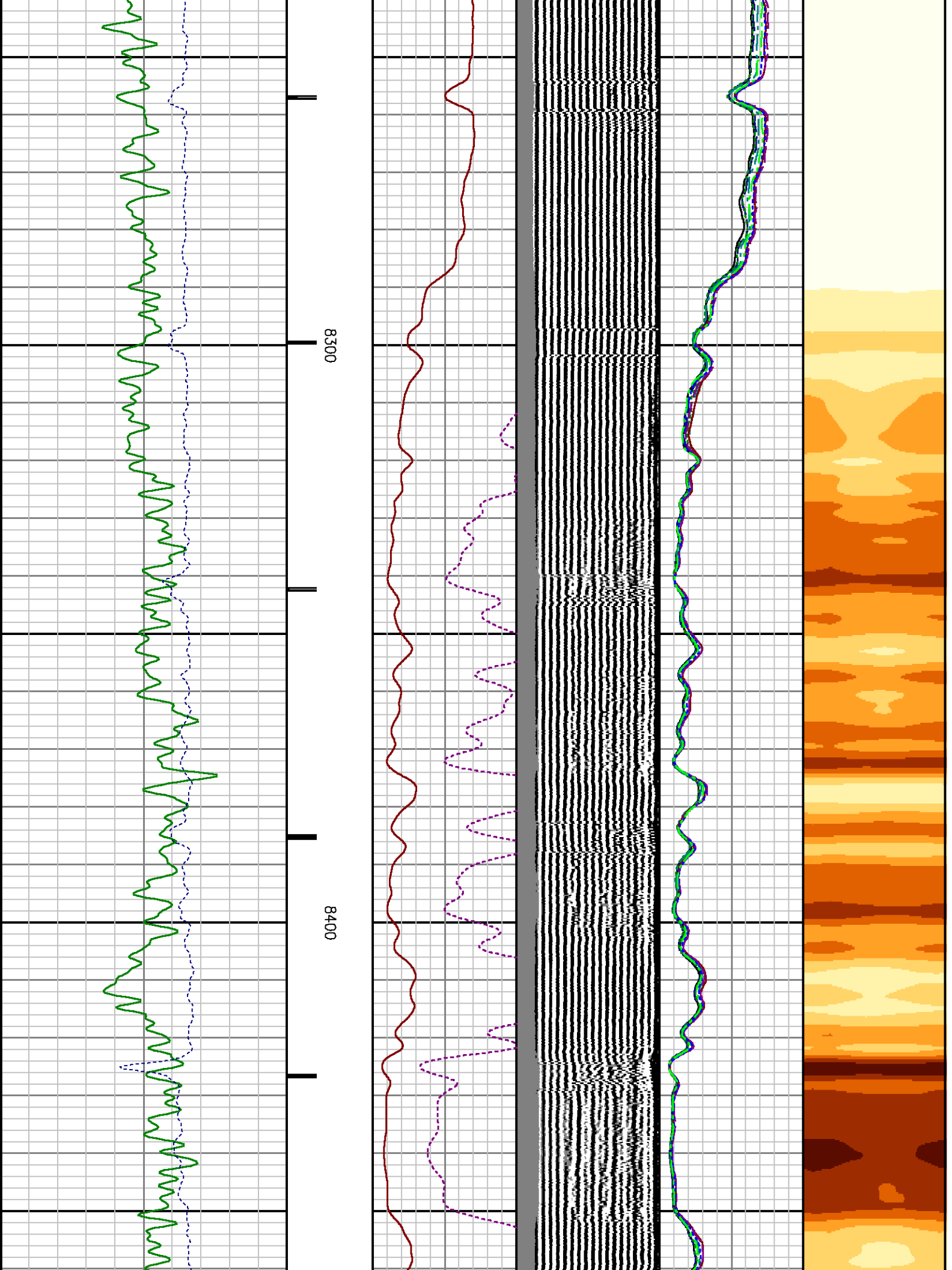


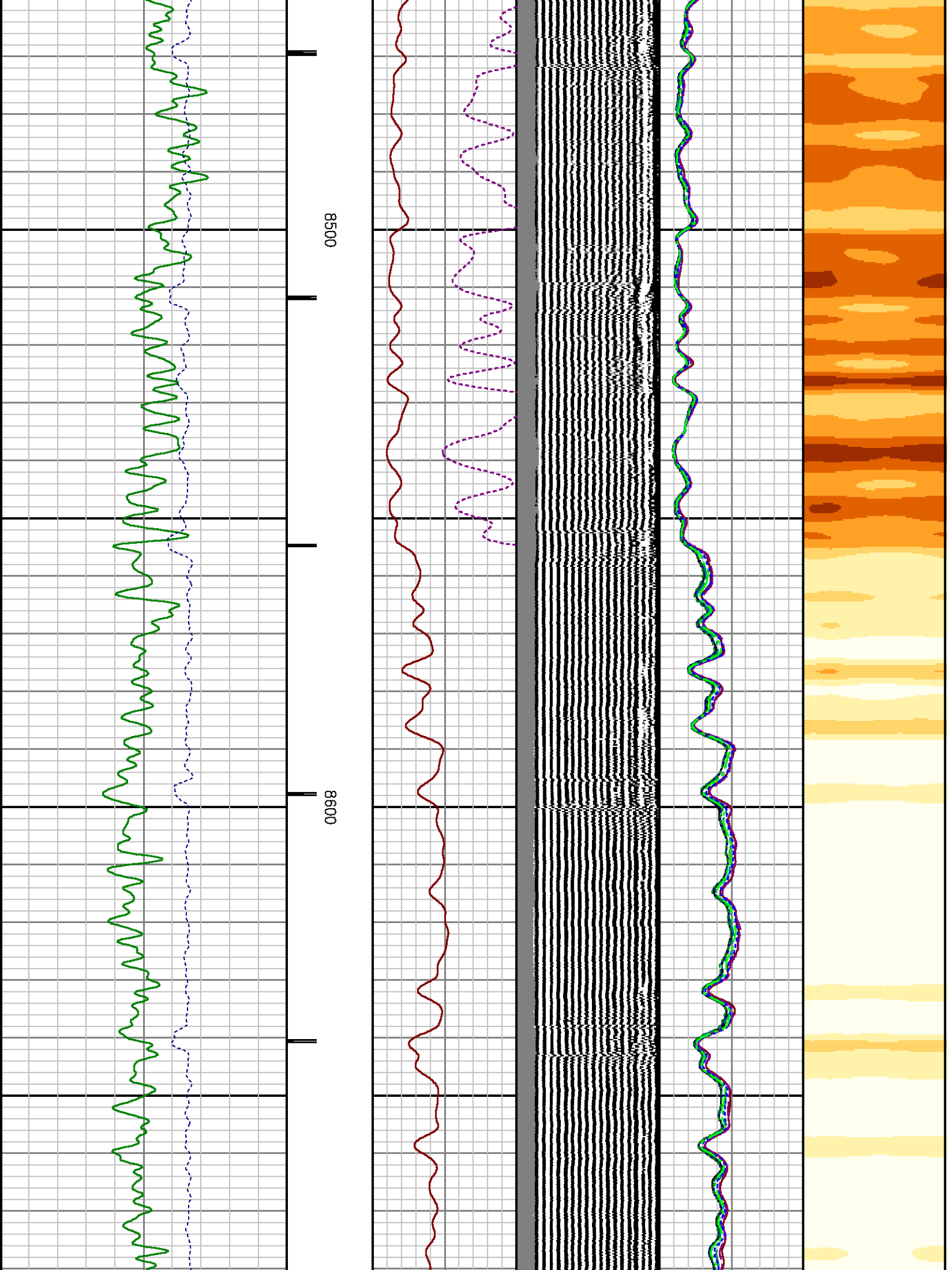


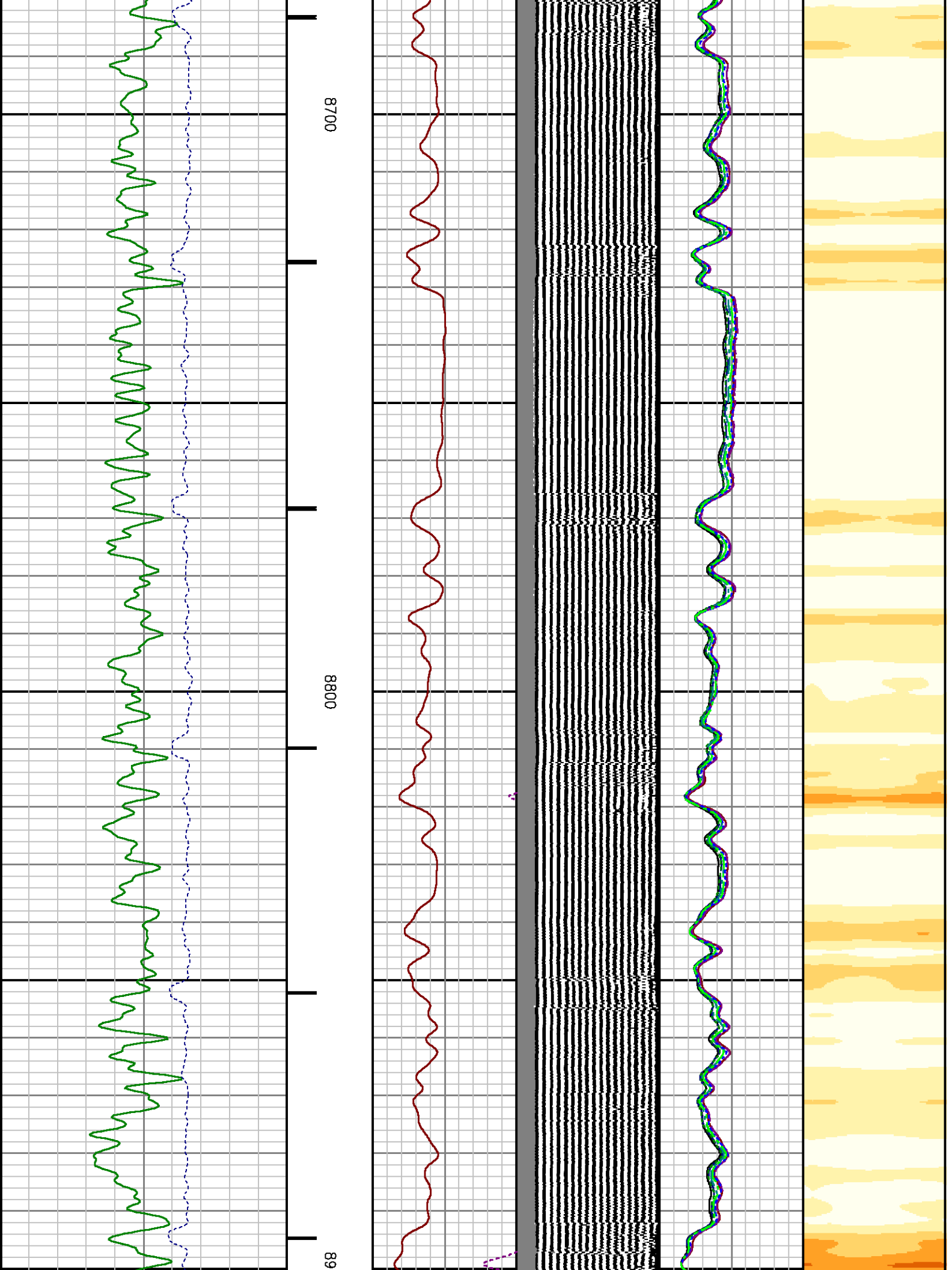


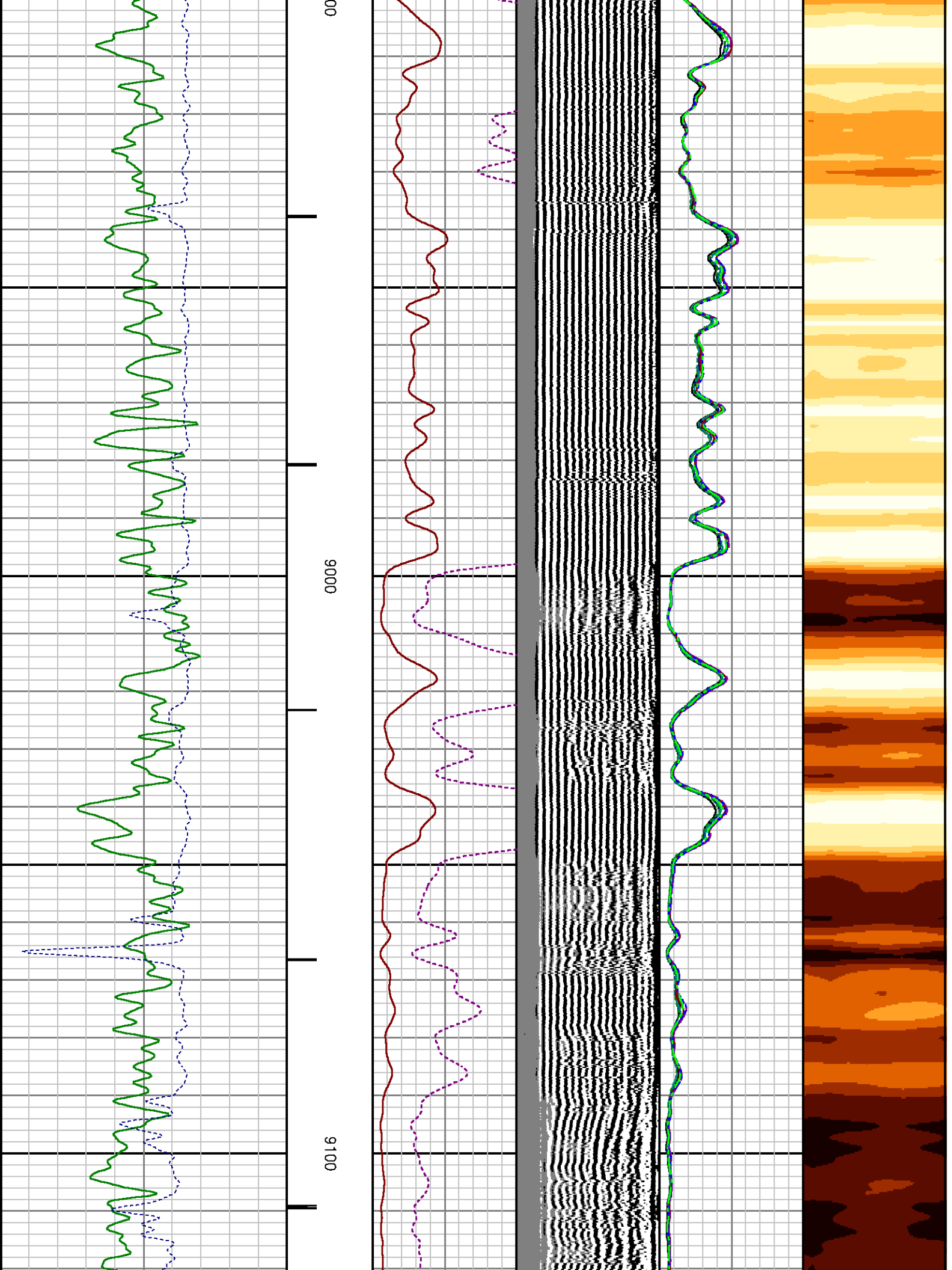


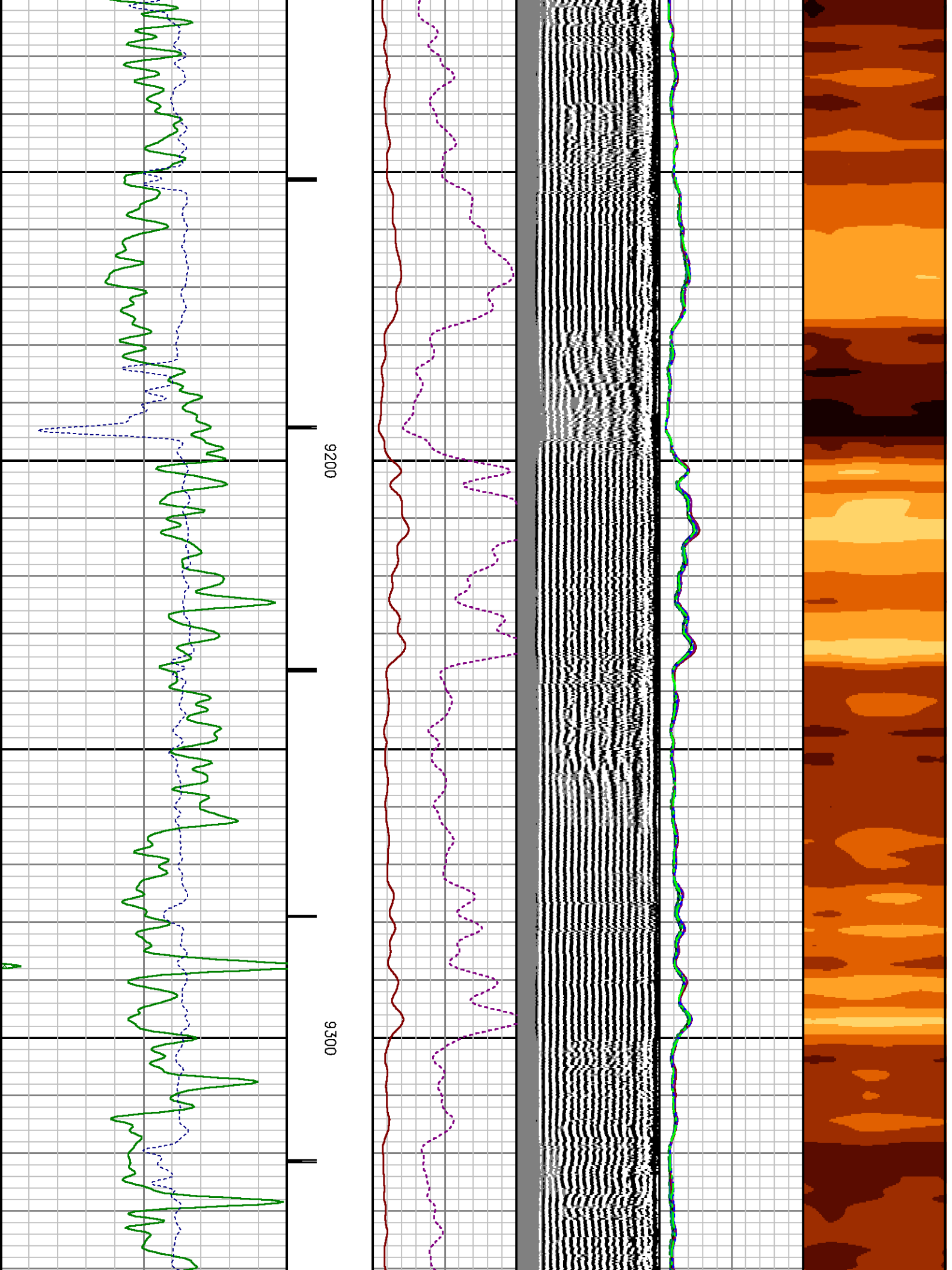


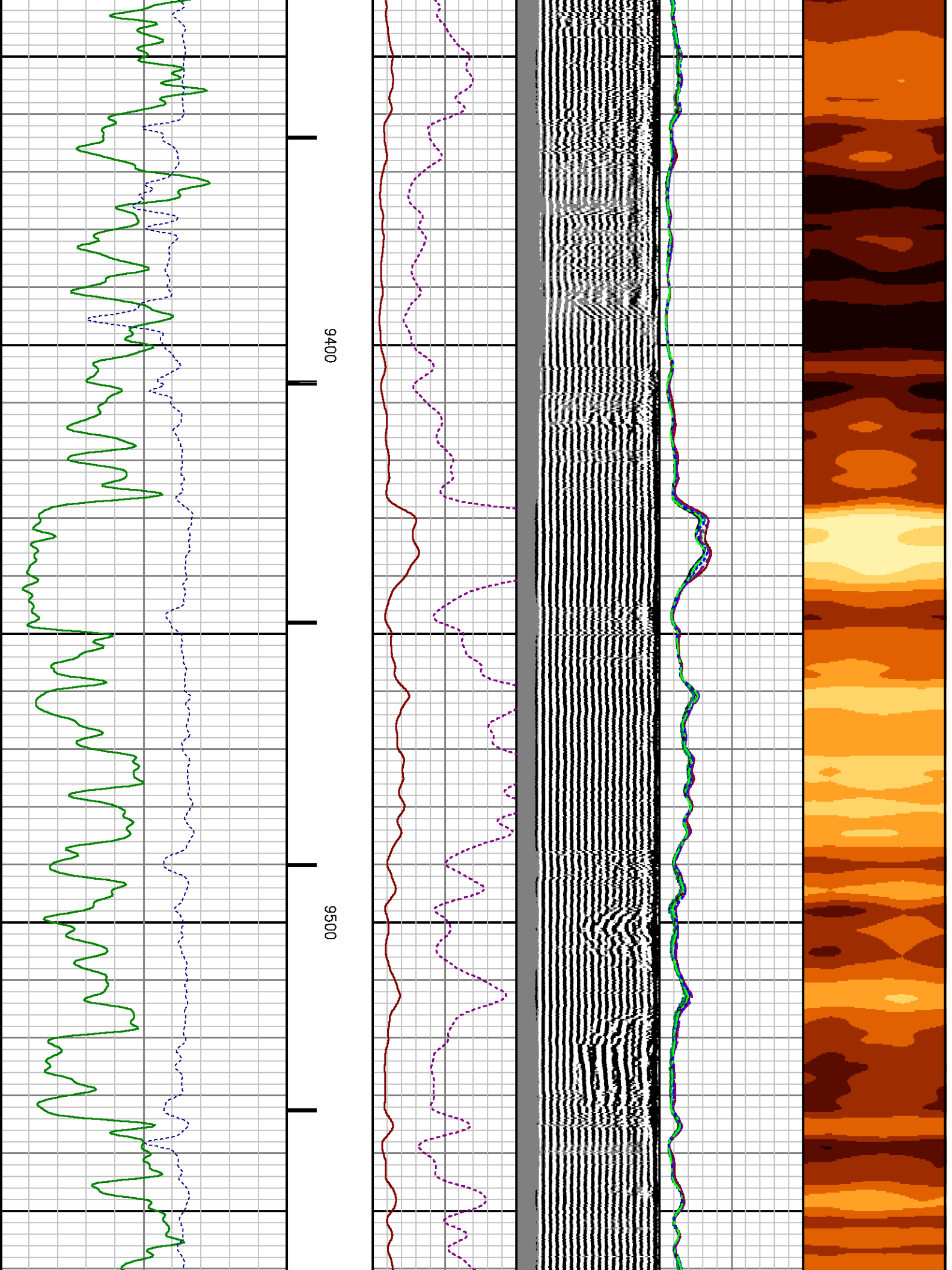


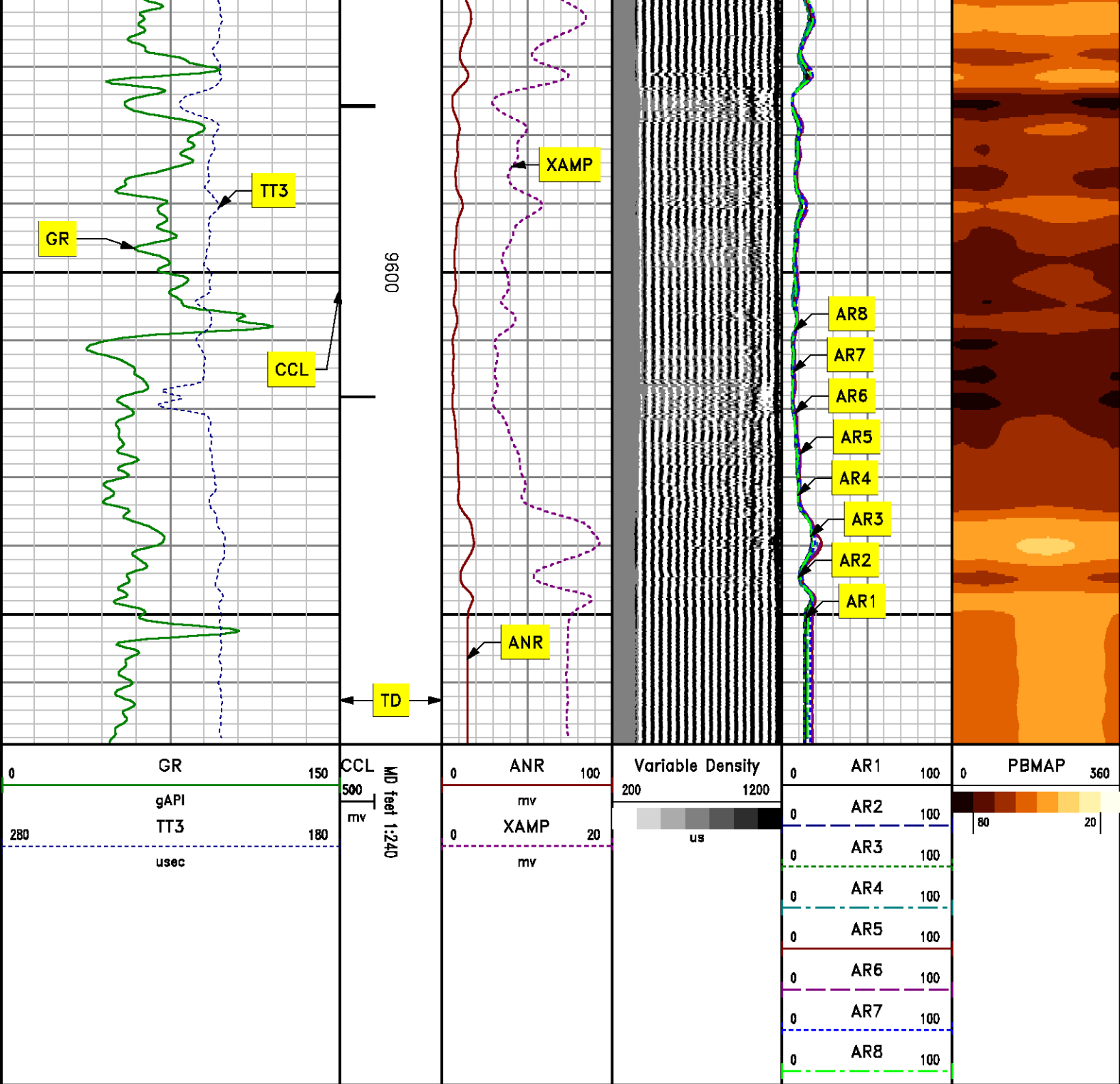












REPEAT SECTION
0 PSI

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | TOP | BOTTOM |
|------------------|-----------------------|---------|---------|----------|----------|
| RAL | Amp Gate Start Far | 320.000 | usec | 9375.686 | 9693.780 |
| RAL | Amp Gate Start Near | 212.000 | usec | 9375.686 | 9693.780 |
| RAL | Amp Gate Start Radial | 212.000 | usec | 9375.686 | 9693.780 |
| RAL | Amp Gate Width Far | 25.000 | usec | 9375.686 | 9693.780 |
| RAL | Amp Gate Width Near | 25.000 | usec | 9375.686 | 9693.780 |
| RAL | Amp Gate Width Radial | 25.000 | usec | 9375.686 | 9693.780 |
| RAL | casing od | 5.500 | inches | 9375.686 | 9693.780 |
| RAL | casing wt | 20.000 | lbm/ft | 9375.686 | 9693.780 |
| RAL | FB Start Far | 304.461 | usec | 9375.686 | 9693.780 |
| RAL | FB Start Near | 187.952 | usec | 9375.686 | 9693.780 |
| RAL | FB Start Radial | 187.952 | usec | 9375.686 | 9693.780 |
| RAL | FB Thresh Far | 10.000 | mv | 9375.686 | 9693.780 |
| RAL | FB Thresh Near | 4.000 | mv | 9375.686 | 9693.780 |
| RAL | FB Thresh Radial | 4.000 | mv | 9375.686 | 9693.780 |
| RAL | Fluid Travel Time | 200.000 | usec/ft | 9375.686 | 9693.686 |

DEPTH OFFSETS (for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES | | | | | |
|--------|--------------|-----------------|------|------|------|------|------|
| 1426XA | -16.750 | ACAL | ANR | AR1 | AR2 | AR3 | AR4 |
| | | AR5 | AR6 | AR7 | AR8 | CHV | FPR2 |
| | | FPR3 | FPR5 | TT3 | TTR1 | TTR2 | TTR3 |
| | | TTR4 | TTR5 | TTR6 | TTR7 | TTR8 | XAMP |
| 1426XA | -15.750 | AFAR | SIG | TT5 | | | |
| 2459XA | -11.340 | CCL | | | | | |
| 2459XA | -9.490 | GR | | | | | |
| 2459XA | -4.090 | NEU | | | | | |

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : MESA ENERGY LLC

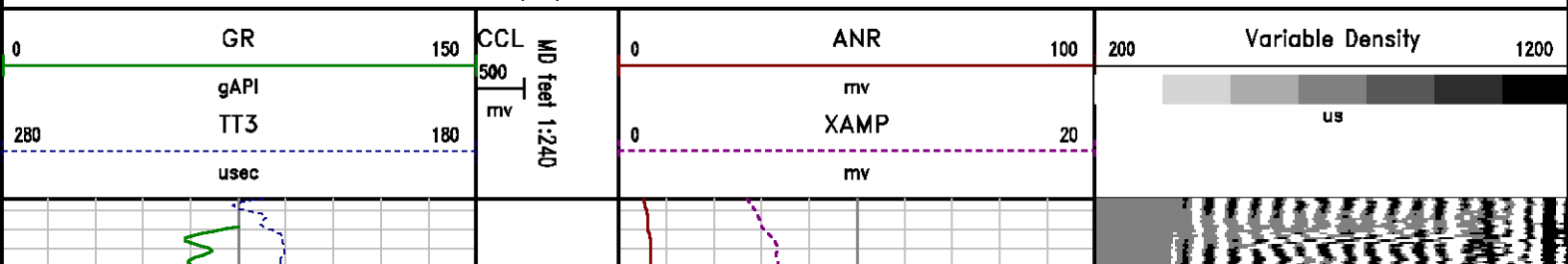
Well : COYOTE BASIN 29-12-397

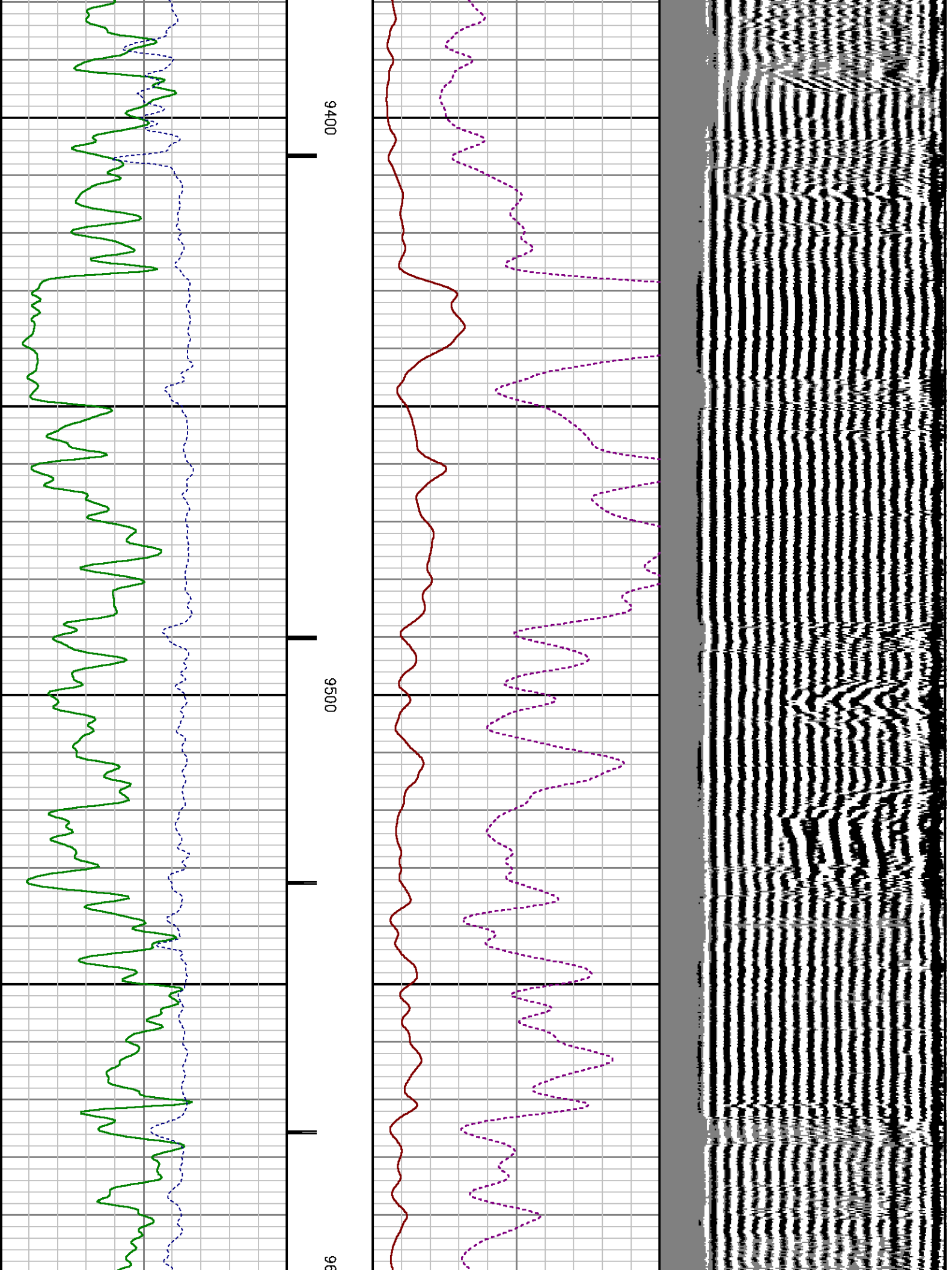
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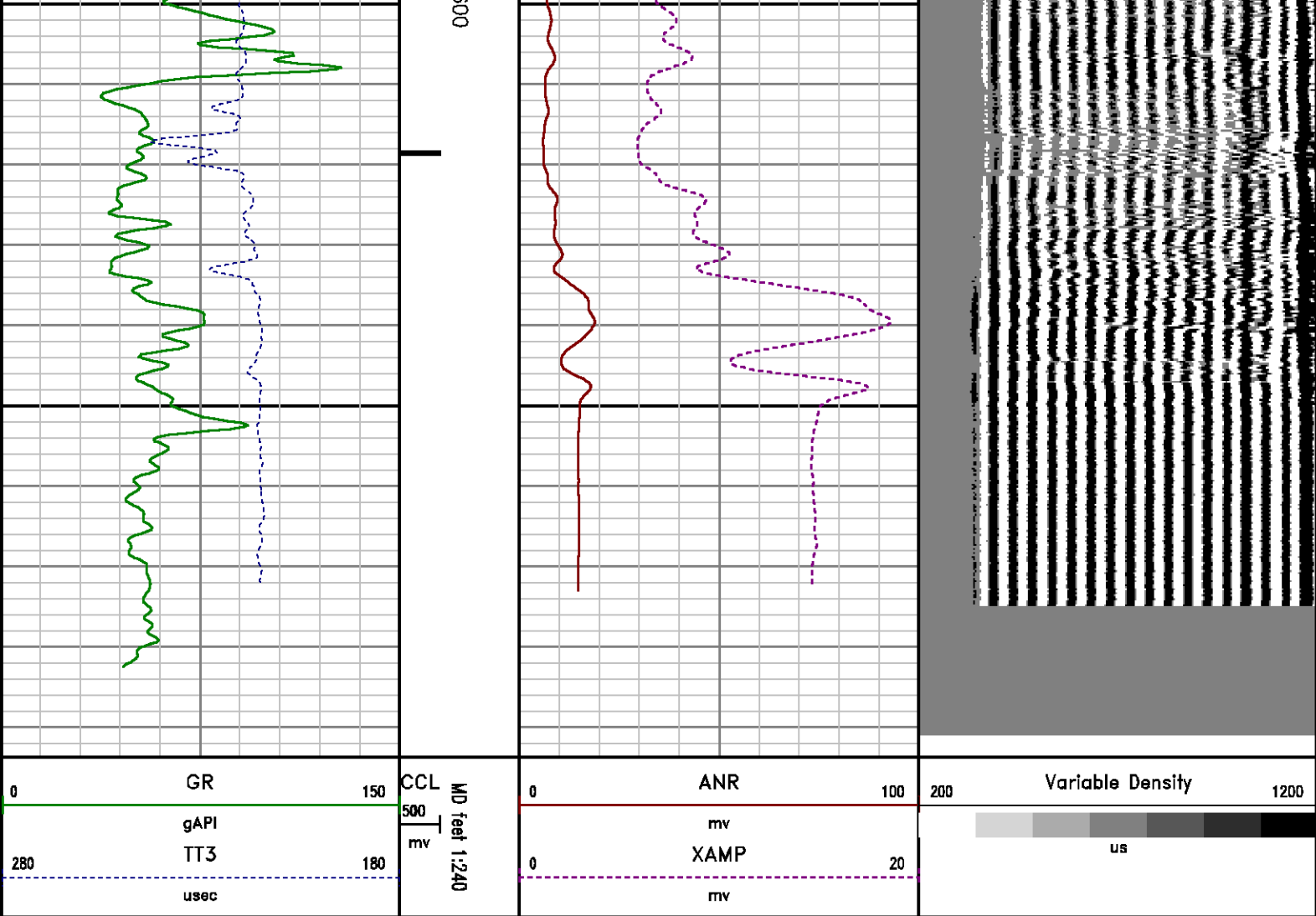
Mode : PlotMgr 5.4.504

Interval : 9372.78 - 9693.78 feet UP

Created : 7/21/2012 8:35:13 AM







CALIBRATION SUMMARY

GAMMA RAY

Calibration File: C:\case\calver\GR\456 HEAT SJ.cal

CALIBRATION SUMMARY

| | | | | | | | |
|---|------------------|---------------------|----------------|-------------------|---------------------|--------------------|--|
| DATE/TIME PERFORMED: Sat Jul 21 07:34:55 2012 | | TOOL SERIES: 2459XA | | ASSET: 456 HEAT S | | SEQ: J | |
| Calibrator # | Background [cps] | Calibrator On [cps] | Multiplicative | Background [api] | Calibrator On [api] | Differential [api] | |
| 4271 S2K | 72.31 | 301.64 | 0.807 | 58.33 | 243.33 | 185.00 | |

Verification File: C:\case\calver\GR\456 HEAT SJ.VP

DATE/TIME PERFORMED: Sat Jul 21 07:37:06 2012 TOOL SERIES: 2459XA ASSET: 456 HEAT S SEQ: J

| Calibrator # | Background [cps] | Calibrator On [cps] | Multiplicative | Background [api] | Calibrator On [api] | Differential [api] |
|--------------|------------------|---------------------|----------------|------------------|---------------------|--------------------|
| 4271 S2K | 70.53 | 305.07 | 0.807 | 56.90 | 246.09 | 189.19 |

RALSHP

Shop Calibration: C:\case\calver\RALSHP\452 HEAT SJ_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jul 21 07:58:14 2012 TOOL SERIES: 1426XA ASSET: 452 HEAT S SEQ: J

| | | | | | | | |
|-------------------|--------|------------|------|----------------|-------|------------|------|
| Tool Delay [usec] | -56.00 | Tank OD in | 5.50 | Tank Wt lbm/ft | 15.50 | Tank ID in | 4.95 |
|-------------------|--------|------------|------|----------------|-------|------------|------|

| RECEIVER | Travel Time [usec] | Amp. Gate Start [usec] | Amp. Gate Width [usec] | Zero Gate Start [usec] | Zero Gate Width [usec] | Zero Amp. [mV] | Amp Ref. [mV] | Shop Factor |
|----------------|--------------------|------------------------|------------------------|------------------------|------------------------|----------------|---------------|-------------|
| CAL Pulse | 217 | 216 | 30 | 166 | 25 | -0.334 | 100.00 | 0.13 |
| 3 Ft. Receiver | 216 | 216 | 30 | 147 | 25 | 4.644 | 100.00 | 0.13 |
| 5 Ft. Receiver | 326 | 327 | 30 | 257 | 25 | 6.401 | 150.00 | 0.14 |
| Radial #1 | 214 | 219 | 30 | 157 | 25 | -31.215 | 100.00 | 0.13 |
| Radial #2 | 218 | 219 | 30 | 157 | 25 | 6.795 | 100.00 | 0.13 |
| Radial #3 | 218 | 219 | 30 | 157 | 25 | 3.663 | 100.00 | 0.13 |
| Radial #4 | 217 | 219 | 30 | 157 | 25 | 3.316 | 100.00 | 0.13 |
| Radial #5 | 216 | 219 | 30 | 157 | 25 | 4.041 | 100.00 | 0.13 |
| Radial #6 | 215 | 219 | 30 | 157 | 25 | 4.872 | 100.00 | 0.13 |
| Radial #7 | 214 | 219 | 30 | 157 | 25 | 5.339 | 100.00 | 0.13 |
| Radial #8 | 216 | 219 | 30 | 157 | 25 | 5.444 | 100.00 | 0.13 |

RALFLD

Well-site Calibration: C:\case\calver\RALFLD\452 HEAT SJ fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Sat Jul 21 07:59:48 2012 TOOL SERIES: 1426XA ASSET: 452 HEAT S SEQ: J

| | | | | | | | |
|-------------------|--------|--------------|------|------------------|-------|--------------|------|
| Tool Delay [usec] | -56.00 | Casing OD in | 5.50 | Casing Wt lbm/ft | 20.00 | Casing ID in | 4.78 |
|-------------------|--------|--------------|------|------------------|-------|--------------|------|

| RECEIVER | Zero Gate Start [usec] | Zero Gate Width [usec] | Zero Amp. [mV] | Full Amp. [mV] | Well-site Factor | Amp. Ref [mV] |
|----------------|------------------------|------------------------|----------------|----------------|------------------|---------------|
| CAL Pulse | 166 | 25 | 0.048 | 0.000 | 1.00 | 100.000 |
| 3 Ft. Receiver | 213 | 30 | 1.626 | | | |
| 5 Ft. Receiver | 329 | 30 | 2.446 | | | |
| Radial #1 | 213 | 30 | 1.463 | | | |
| Radial #2 | 213 | 30 | 1.640 | | | |
| Radial #3 | 213 | 30 | 1.611 | | | |
| Radial #4 | 213 | 30 | 1.415 | | | |
| Radial #5 | 213 | 30 | 1.073 | | | |

| | | | |
|-----------|-----|----|-------|
| Radial #5 | 213 | 30 | 1.575 |
| Radial #6 | 213 | 30 | 1.257 |
| Radial #7 | 213 | 30 | 1.504 |
| Radial #8 | 213 | 30 | 1.323 |

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

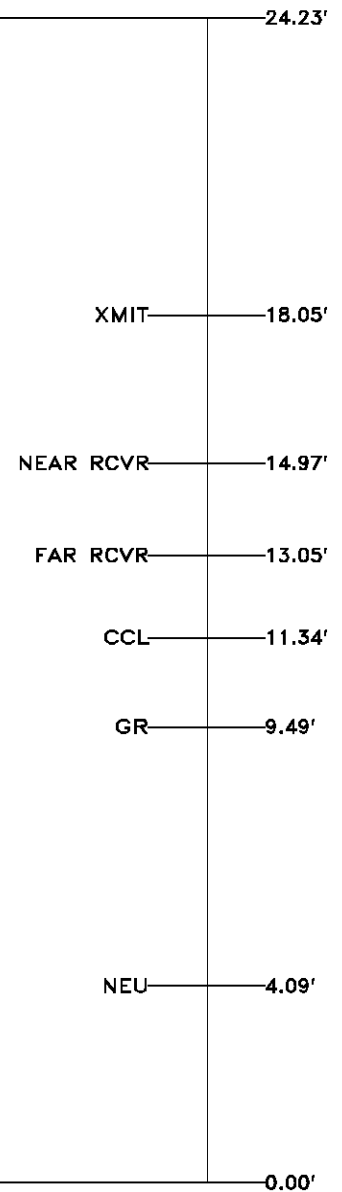
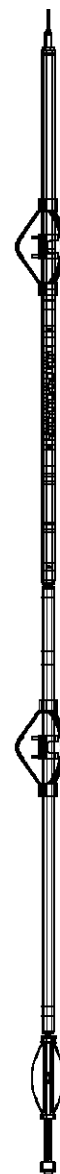
| | |
|---------------|-----------------|
| Series | 1426XA |
| Mnemonic | PROB |
| Diameter | 2.75" |
| Length | 11.17' |
| Measure Point | 0.75' FAR RCVR |
| Measure Point | 2.67' NEAR RCVR |
| Measure Point | 5.75' XMIT |
| Temp Rating | 350.00 °F |
| Press Rating | 18000.00 PSI |

Probe GR/CCL/NEU

| | |
|---------------|-----------|
| Series | 2459XA |
| Mnemonic | PROB |
| Diameter | 2.75" |
| Length | 9.42' |
| Measure Point | 1.21' NEU |
| Measure Point | 6.60' GR |
| Measure Point | 8.46' CCL |

CENTRALIZER

| | |
|----------|----------|
| Series | RALCENT |
| Mnemonic | CENT |
| Diameter | 3.12" |
| Weight | 20.00 lb |



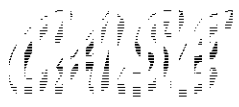
Total Length: 24.23'
 Total Weight: Not Available
 Max Diameter: 0' 3.12"



Company MESA ENERGY LLC
 Well COYOTE BASIN 29-12-397
 Field COLOROW GULCH
 County RIO BLANCO State COLORADO

File No:
 CH057377
 API No:
 05103119080000

Baker Atlas



Location
 NW SW 29-3N-97W
 SEC 29 TWP 3N RGE 97W

Elevations
 KB 5876 ft
 DF 5875 ft
 GL 5853 ft

NW SW 29-3N-97W