



RADIAL CEMENT BOND LOG

| | |
|---------------------------|---|
| FILE NO: CH132062 | COMPANY LARAMIE ENERGY LLC |
| API NO: 05077104780000 | WELL BRUTON 30-14W |
| | FIELD VEGA |
| | COUNTY MESA STATE COLORADO |

| | | |
|-----------|---|-----------------------|
| Ver. 4.10 | LOCATION: SHL: 2611' FNL & 1883' FEL BHL: 1908' FSL & 1310' FWL SEC 30 TWP 9S RGE 93W | OTHER SERVICES RPM |
|-----------|---|-----------------------|

| | | |
|---|-----------------------------------|-------------------------------------|
| PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM | GL ELEVATION 7643 FT | KB ELEVATIONS: 7673 FT |
| | KB 30 FT | DF ABOVE P.D. |
| | KB | GL 7643 FT |

| | | |
|------------------------|-------------|------------|
| DATE | 02-Feb-2018 | |
| RUN | TRIP | 1 |
| SERVICE ORDER | US132062 | |
| DEPTH DRILLER | 8102 FT | |
| DEPTH LOGGER | 8040 FT | |
| BOTTOM LOGGED INTERVAL | 8040 FT | |
| TOP LOGGED INTERVAL | 30 FT | |
| TIME STARTED | 13:30 | |
| TIME FINISHED | 16:00 | |
| OPERATOR RIG TIME | 2.5 HOURS | |
| TYPE OF FLUID IN HOLE | WATER | |
| FLUID DENSITY | NA | |
| FLUID SALINITY | NA | |
| FLUID LEVEL | 53 FT | |
| LOGGED CEMENT TOP | 1020 FT | |
| WELLHEAD PRESSURE | 0 PSI | |
| MAXIMUM HOLE DEVIATION | NA | |
| NOMINAL LOGGING SPEED | 100 F/MN | |
| MAX. RECORDED TEMP. | 234 DEGF | |
| REFERENCE LOG | NA | |
| REFERENCE LOG DATE | NA | |
| EQUIP. NO. | LOCATION | |
| RECORDED BY | T. NEWELL | GRAND JCT. |
| WITNESSED BY | NA | |

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.

REMARKS

RUN 1 TRIP 1: *2 OPERATIONS IN WELLBORE*

OPERATION 1: RAL/GR/CCL RUN CENTRALIZED

LOGGED WITH 0 PSI ON WELLHEAD

SJ: 6182' - 6204'
SJ: 7262' - 7284'

EQUIPMENT DATA

| RUN | TRIP | TOOL | SERIES NO. | SERIAL NO. | POSITION |
|-----|------|--------|------------|------------|-------------|
| 1 | 1 | RAL | 1426XA | 10124106 | CENTRALIZED |
| 1 | 1 | GR/CCL | 1355XA | 11856714 | CENTRALIZED |

RAL MAIN PASS 0 PSI

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017

Patches: 2

Plotted: Mon Feb 5 19:02:23 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_30-14W/p012g03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 11.000 ft BOTTOM DEPTH: 3828.750 ft

SYMMETRIC FILTER

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|------------------|-----------|------------|-------|---------------|--------|
| GR | FILTER () | medium (1) | | TOP | BOTTOM |
| AMPLITUDE | FILTER () | medium (1) | | " | " |
| TRAVEL TIME | FILTER () | medium (1) | | " | " |

RAL CCL PROCESSING

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|------------------|-----------|-------|-------|---------------|--------|
| CCL FLOOR | CCL FLOOR | 0.00 | | TOP | BOTTOM |

ANALOG RAL PROCESSING

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|---------------------------|----------------------------|---------|-------|---------------|--------|
| AMPLITUDE WINDOW (NEAR) | AMP WINDOW START (fgp1*) | 186 | us | TOP | BOTTOM |
| | AMP WINDOW START (fgp2*) | 186 | us | " | " |
| | AMP WINDOW START (fgp3*) | 186 | us | " | " |
| | AMP WINDOW START (fgp4*) | 186 | us | " | " |
| | AMP WINDOW START (fgp5*) | 186 | us | " | " |
| | AMP WINDOW START (fgp6*) | 186 | us | " | " |
| | AMP WINDOW START (fgp7*) | 186 | us | " | " |
| | AMP WINDOW START (fgp8*) | 186 | us | " | " |
| | AMP WINDOW START (fgpn*) | 186 | us | " | " |
| | AMP WINDOW LENGTH | 25 | us | " | " |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*) | 175 | us | " | " |
| | TT WINDOW LENGTH | 500 | us | " | " |
| | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " | " |
| RAL CASING PARAMETERS | PPT NEAR | 200.391 | us | " | " |
| RAL TOOL DELAY | TOOL DELAY (str1*) | -69 | us | " | " |
| | TOOL DELAY (str2*) | -69 | us | " | " |
| | TOOL DELAY (str3*) | -69 | us | " | " |
| | TOOL DELAY (str4*) | -69 | us | " | " |
| | TOOL DELAY (str5*) | -69 | us | " | " |
| | TOOL DELAY (str6*) | -69 | us | " | " |
| | TOOL DELAY (str7*) | -69 | us | " | " |
| | TOOL DELAY (str8*) | -69 | us | " | " |
| | TOOL DELAY (strn*) | -69 | us | " | " |
| BASELINE NOISE (NEAR) | NOISE WINDOW START | 125 | us | " | " |
| | NOISE WINDOW LENGTH | 25 | us | " | " |

PERCENT BOND CEMENT MAP

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|-------------------------|---------------------|-------|-------|---------------|--------|
| RAL FREE PIPE AMPLITUDE | FREE AMP REC 1 | 80 | mV | TOP | BOTTOM |
| | FREE AMP REC 2 | 80 | mV | " | " |
| | FREE AMP REC 3 | 80 | mV | " | " |
| | FREE AMP REC 4 | 80 | mV | " | " |
| | FREE AMP REC 5 | 80 | mV | " | " |
| | FREE AMP REC 6 | 80 | mV | " | " |
| | FREE AMP REC 7 | 80 | mV | " | " |
| | FREE AMP REC 8 | 80 | mV | " | " |
| RAL FULL BOND AMPLITUDE | FULL BOND AMP REC 1 | 2 | mV | " | " |
| | FULL BOND AMP REC 2 | 2 | mV | " | " |
| | FULL BOND AMP REC 3 | 2 | mV | " | " |
| | FULL BOND AMP REC 4 | 2 | mV | " | " |

| | | | | |
|---------------------|---|----|---|---|
| FULL BOND AMP REC 5 | 2 | mV | " | " |
| FULL BOND AMP REC 6 | 2 | mV | " | " |
| FULL BOND AMP REC 7 | 2 | mV | " | " |
| FULL BOND AMP REC 8 | 2 | mV | " | " |

CURVE DESCRIPTION REPORT

| CURVE NAME | CREATION DATE | CURVE DESCRIPTION |
|------------|---------------|---|
| F1:AR1 | N/A | FIXED GATE AMPLITUDE T-R1 |
| F1:AR2 | N/A | FIXED GATE AMPLITUDE T-R2 |
| F1:AR3 | N/A | FIXED GATE AMPLITUDE T-R3 |
| F1:AR4 | N/A | FIXED GATE AMPLITUDE T-R4 |
| F1:AR5 | N/A | FIXED GATE AMPLITUDE T-R5 |
| F1:AR6 | N/A | FIXED GATE AMPLITUDE T-R6 |
| F1:AR7 | N/A | FIXED GATE AMPLITUDE T-R7 |
| F1:AR8 | N/A | FIXED GATE AMPLITUDE T-R8 |
| F1:CCL | N/A | CASING COLLAR LOCATOR |
| F1:FAMPN | N/A | FIXED GATE AMPLITUDE NEAR RECEIVER |
| F1:FWAVE | N/A | FAR WAVE FORM |
| F1:GR | N/A | GAMMA RAY |
| F1:PBMAP | N/A | PERCENT BOND CEMENT MAP |
| F1:TTN | N/A | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER |
| F1:XAMPN | N/A | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

CURVE MEASURE POINT OFFSET

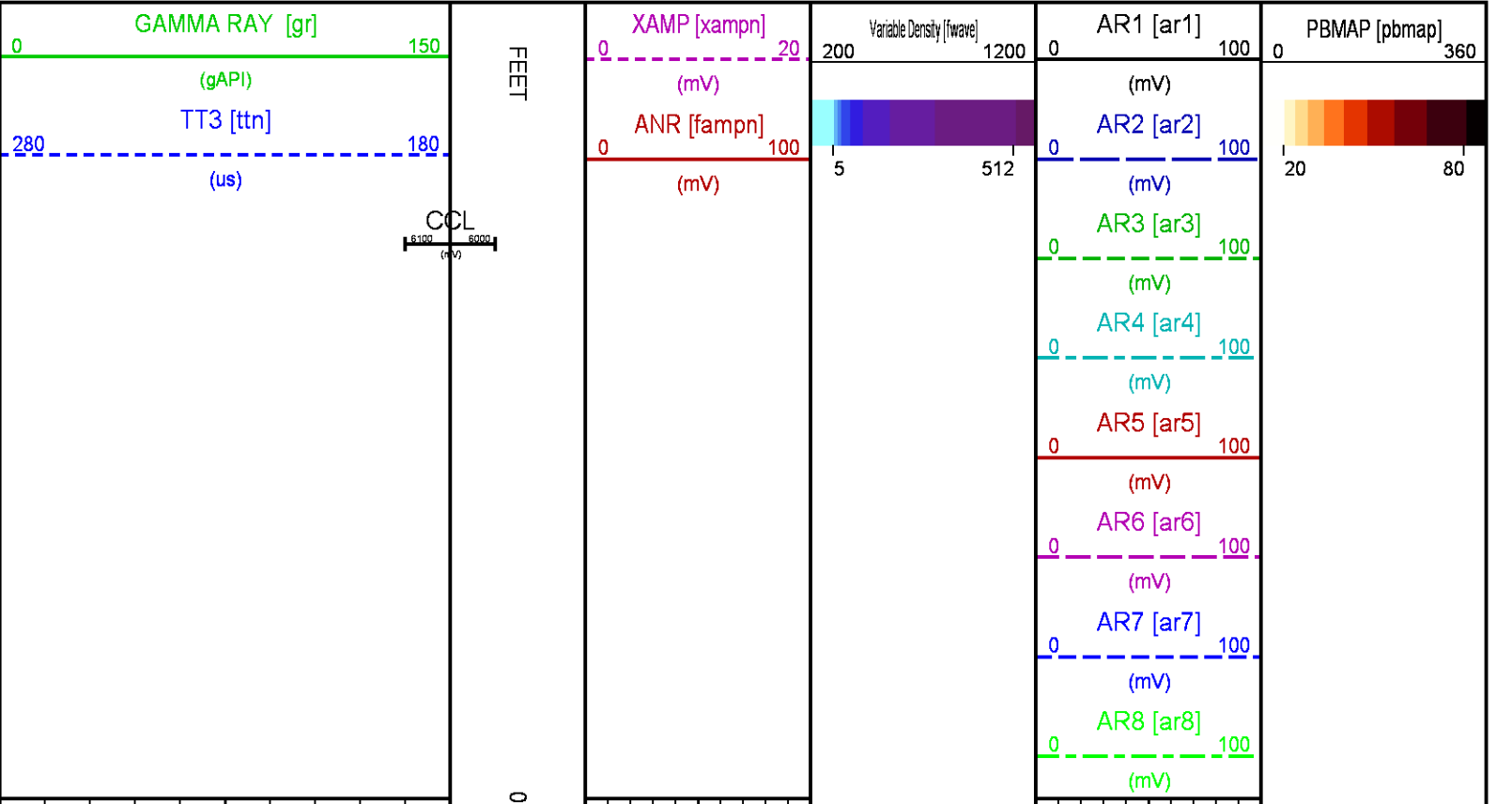
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| AR1 | -11.25 | AR5 | -11.25 | CCL | -5.75 | XAMPN | -11.25 |
| AR2 | -11.25 | AR6 | -11.25 | FAMPN | -11.25 | | |
| AR3 | -11.25 | AR7 | -11.25 | GR | -1.75 | | |
| AR4 | -11.25 | AR8 | -11.25 | TTN | -11.25 | | |

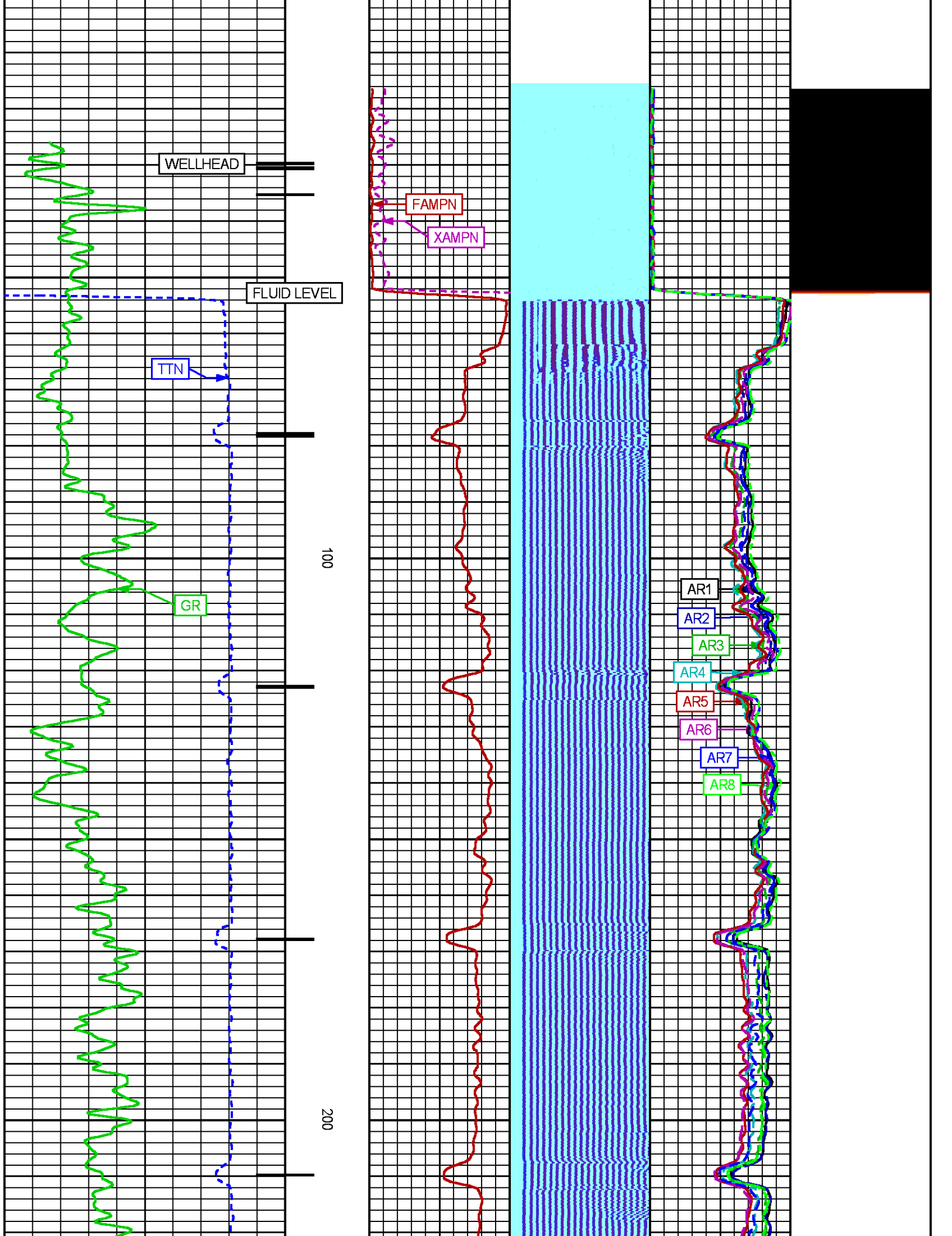
Presentation
Plot Interval

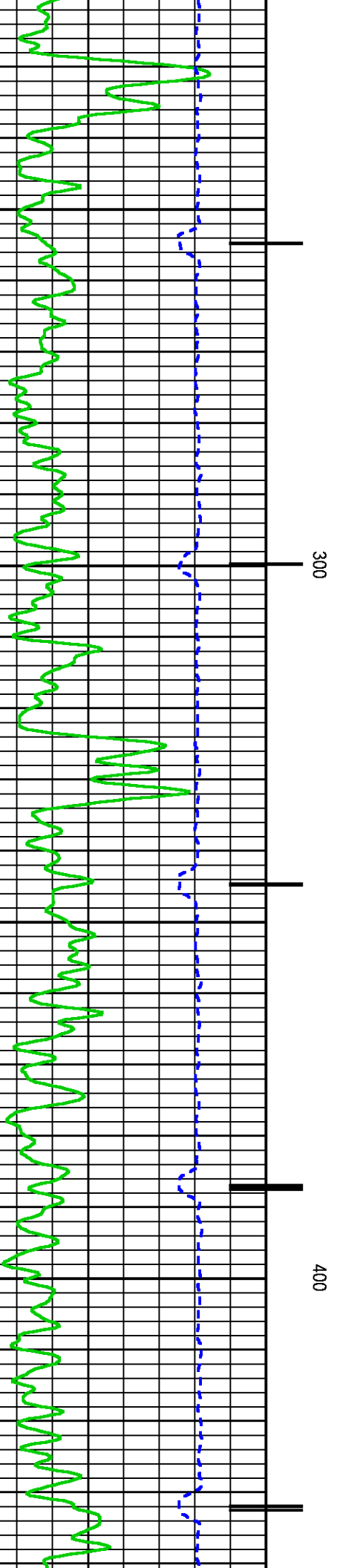
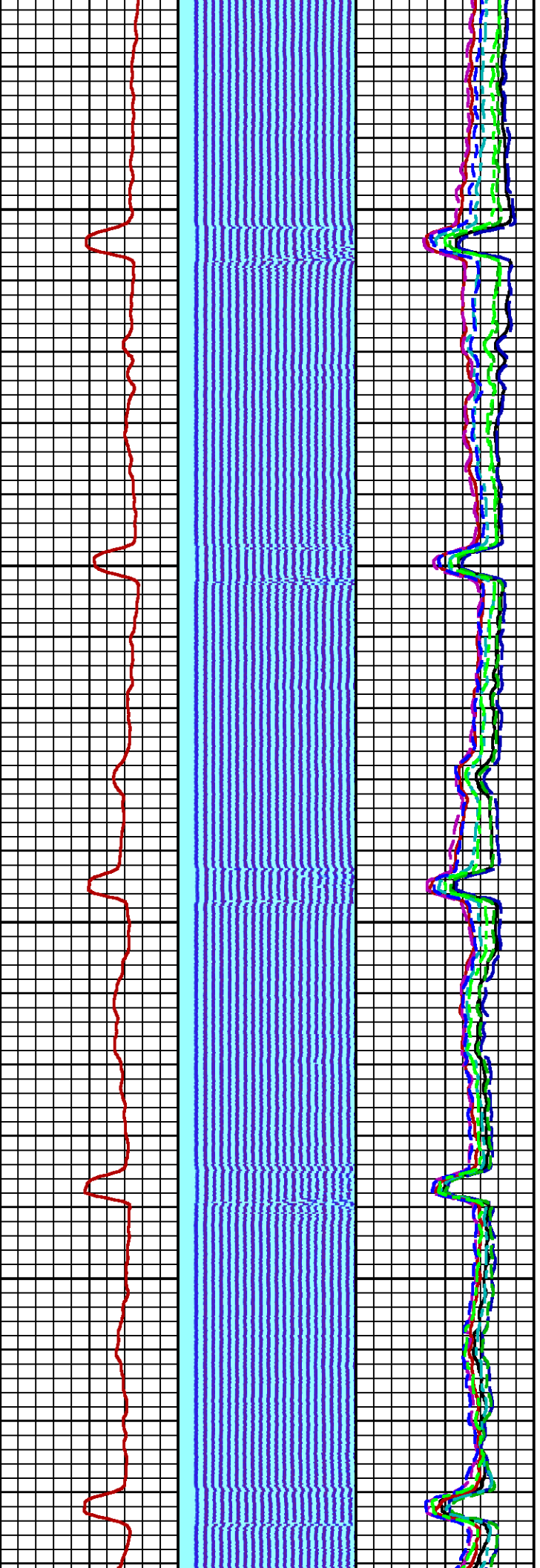
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: 0 - 8051 Feet

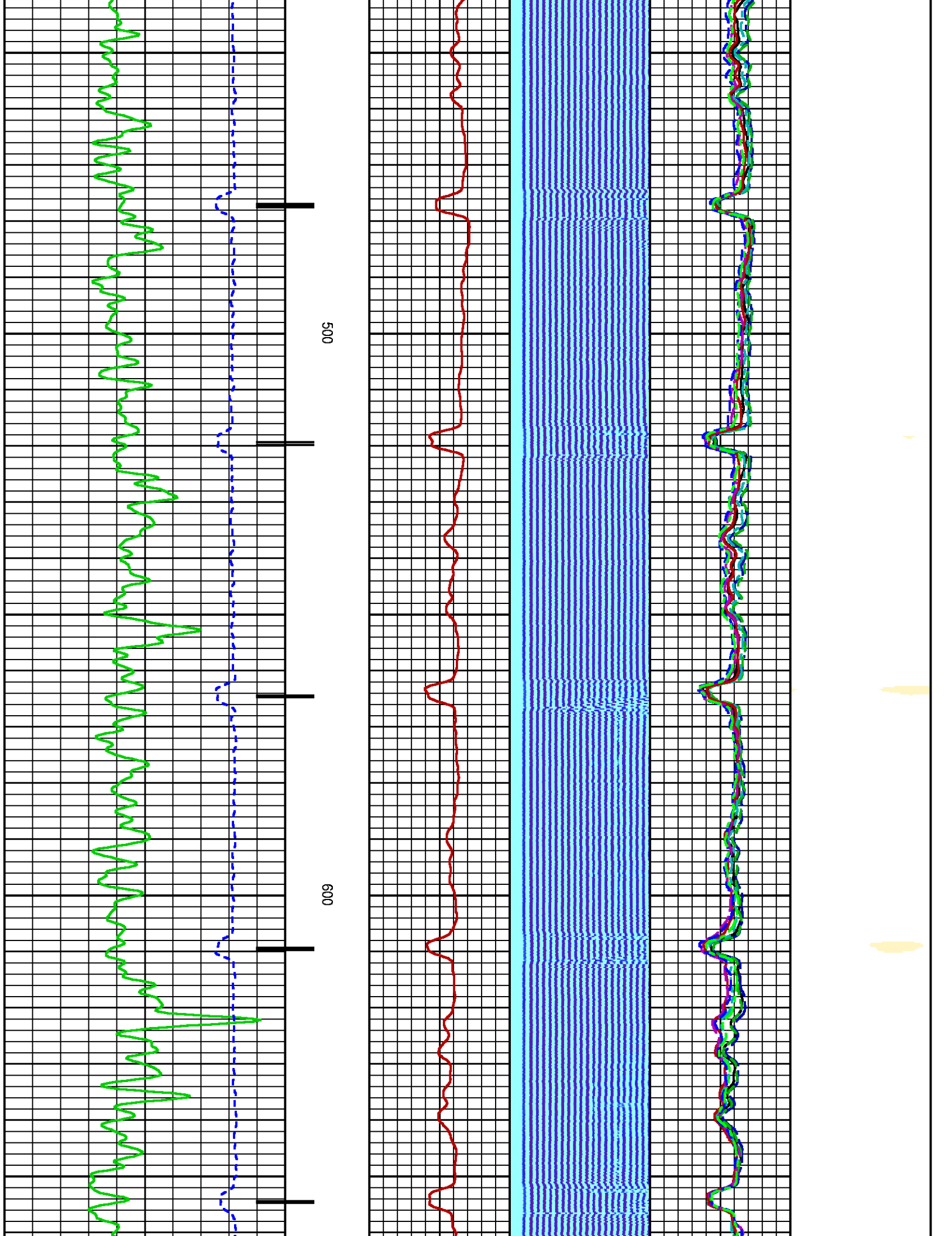
Data File 1
Created On
Company
Well
Field
File Interval
OCT

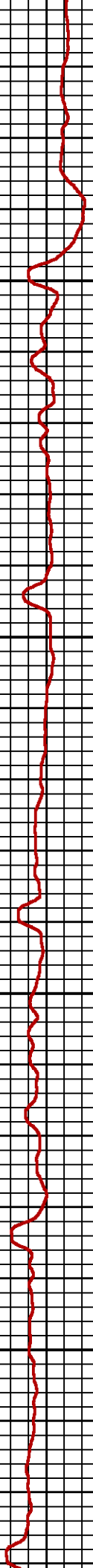
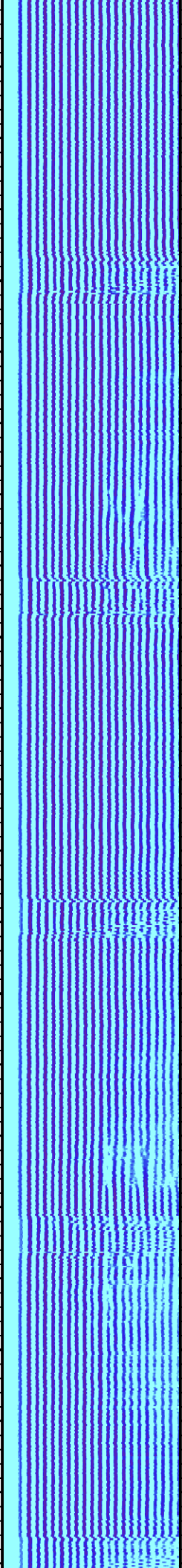
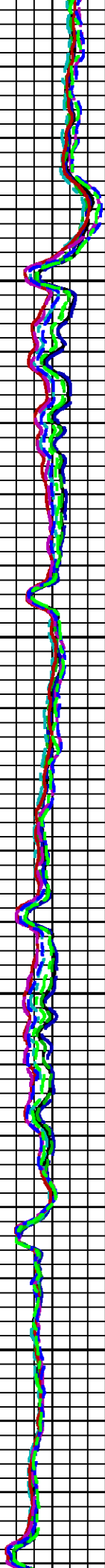
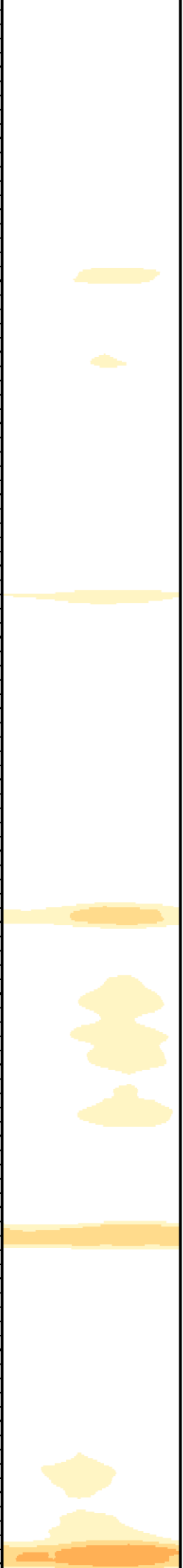
: F1 : SysA:/dat1a/LARAMIE_BRUTON_30-14W/3014WRALMAIN.xtf
: N/A
: LARAMIE ENERGY LLC
: BRUTON 30-14W
: VEGA
: 0 - 8051 Feet
: p012g





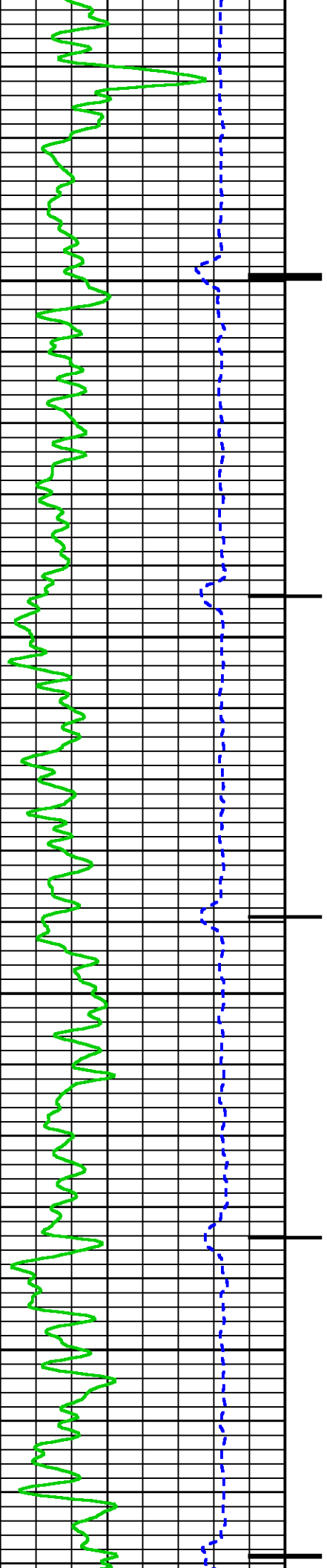


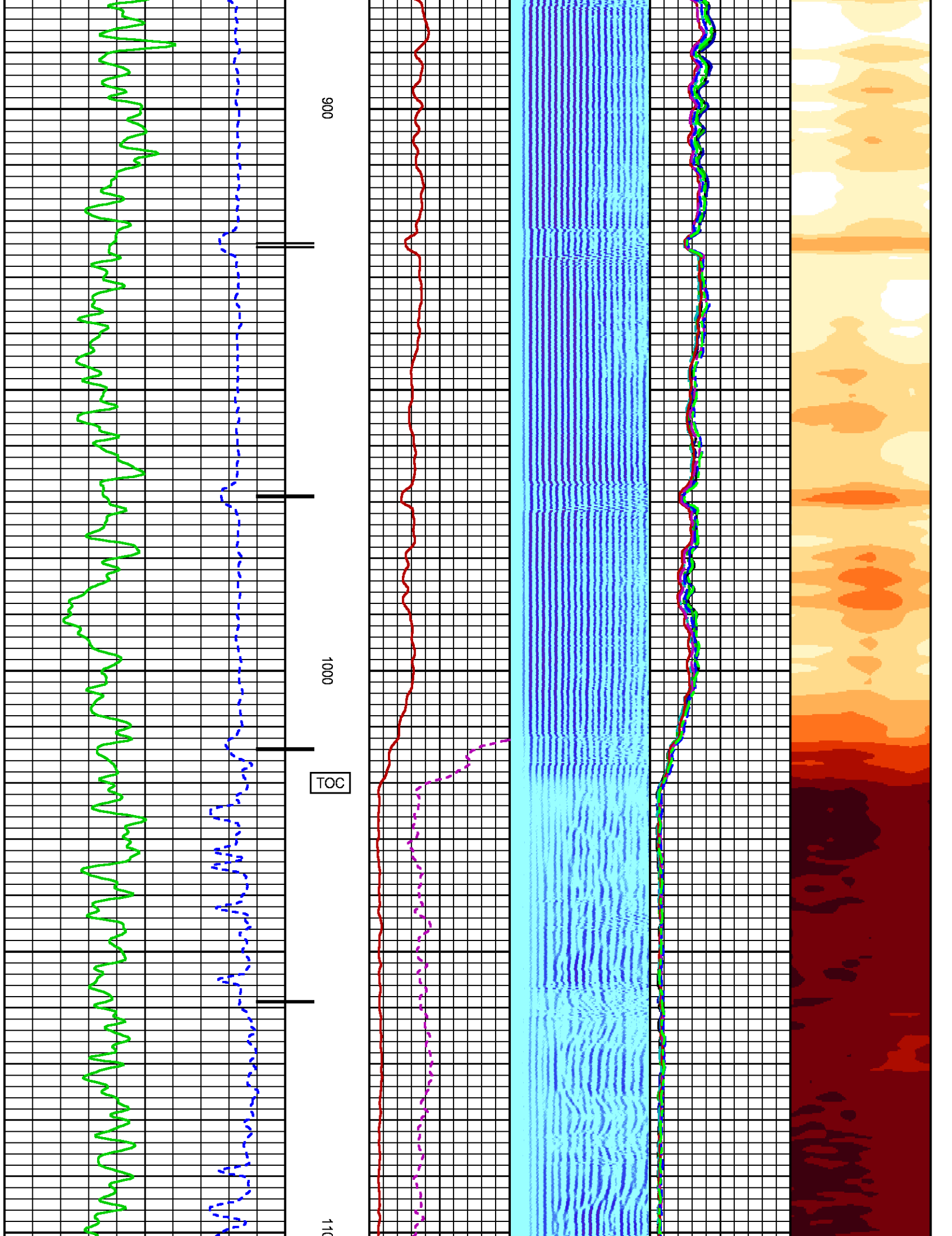


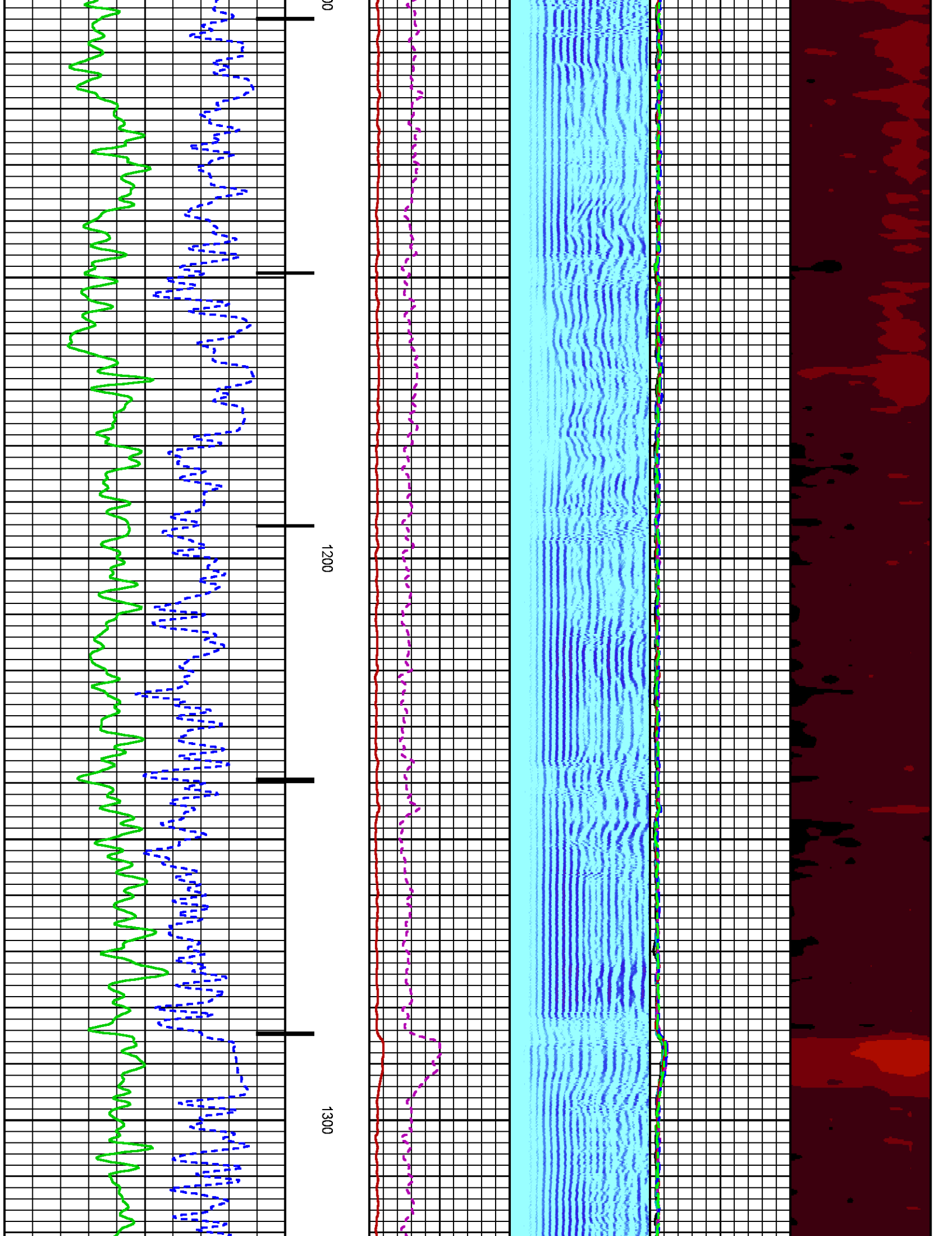


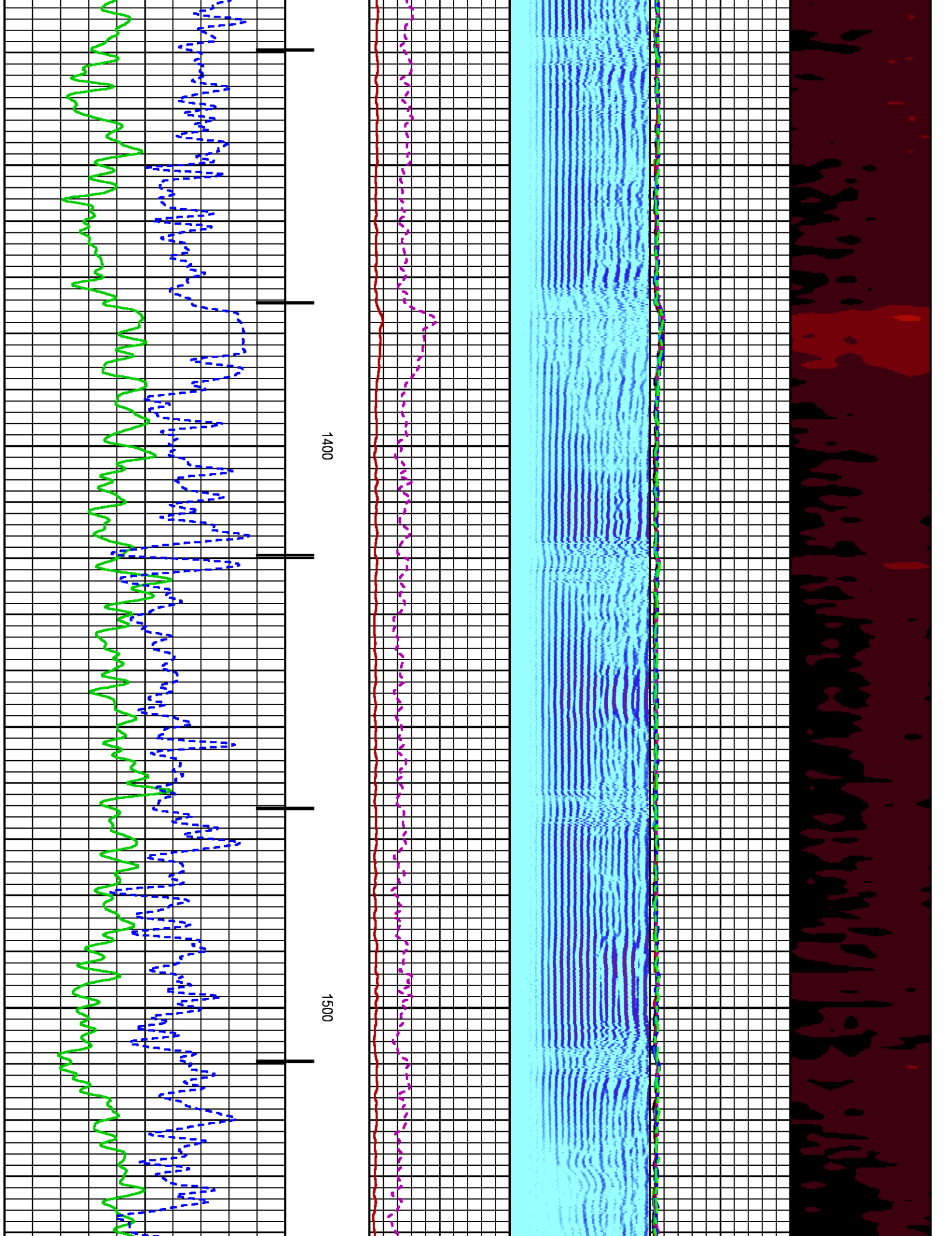
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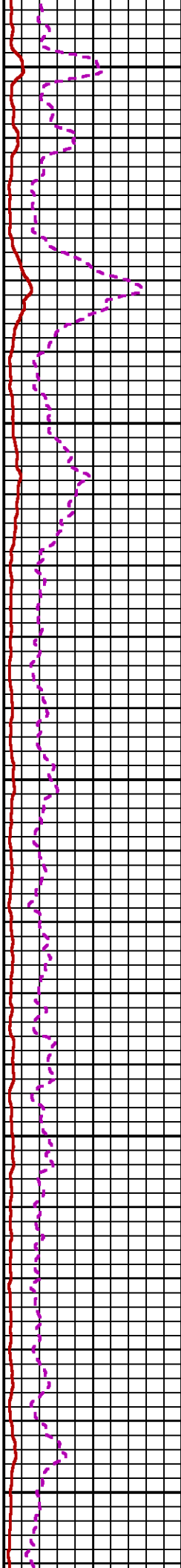
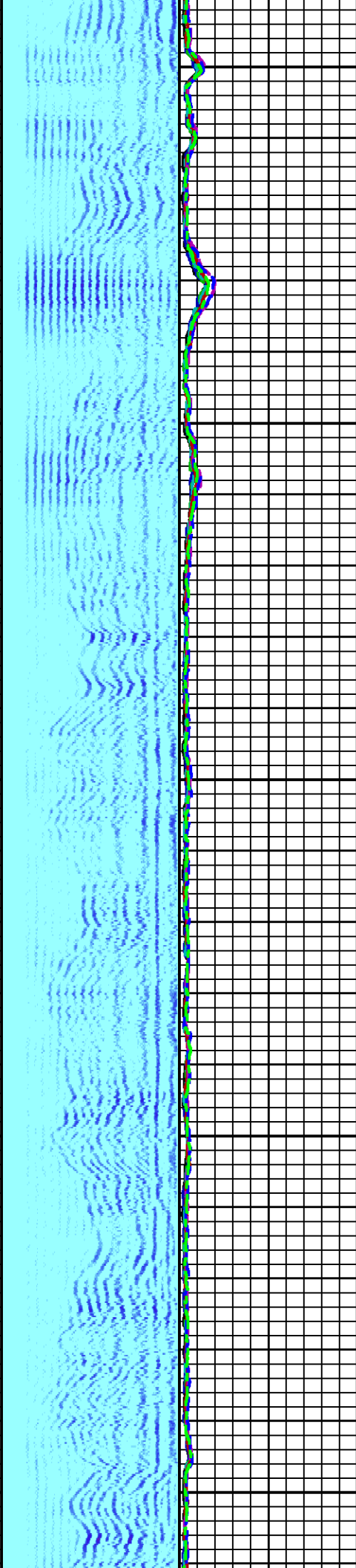
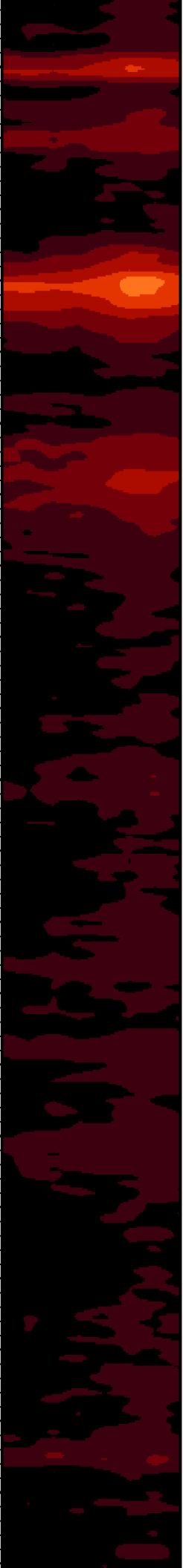
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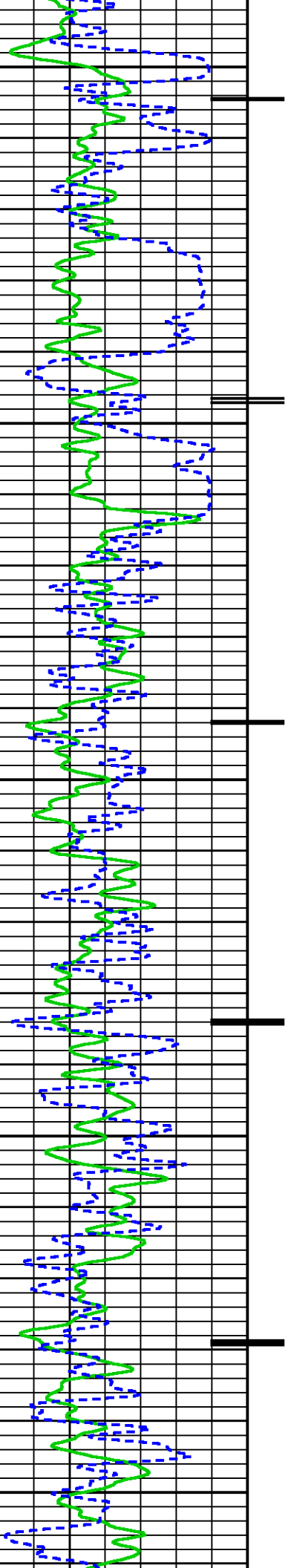


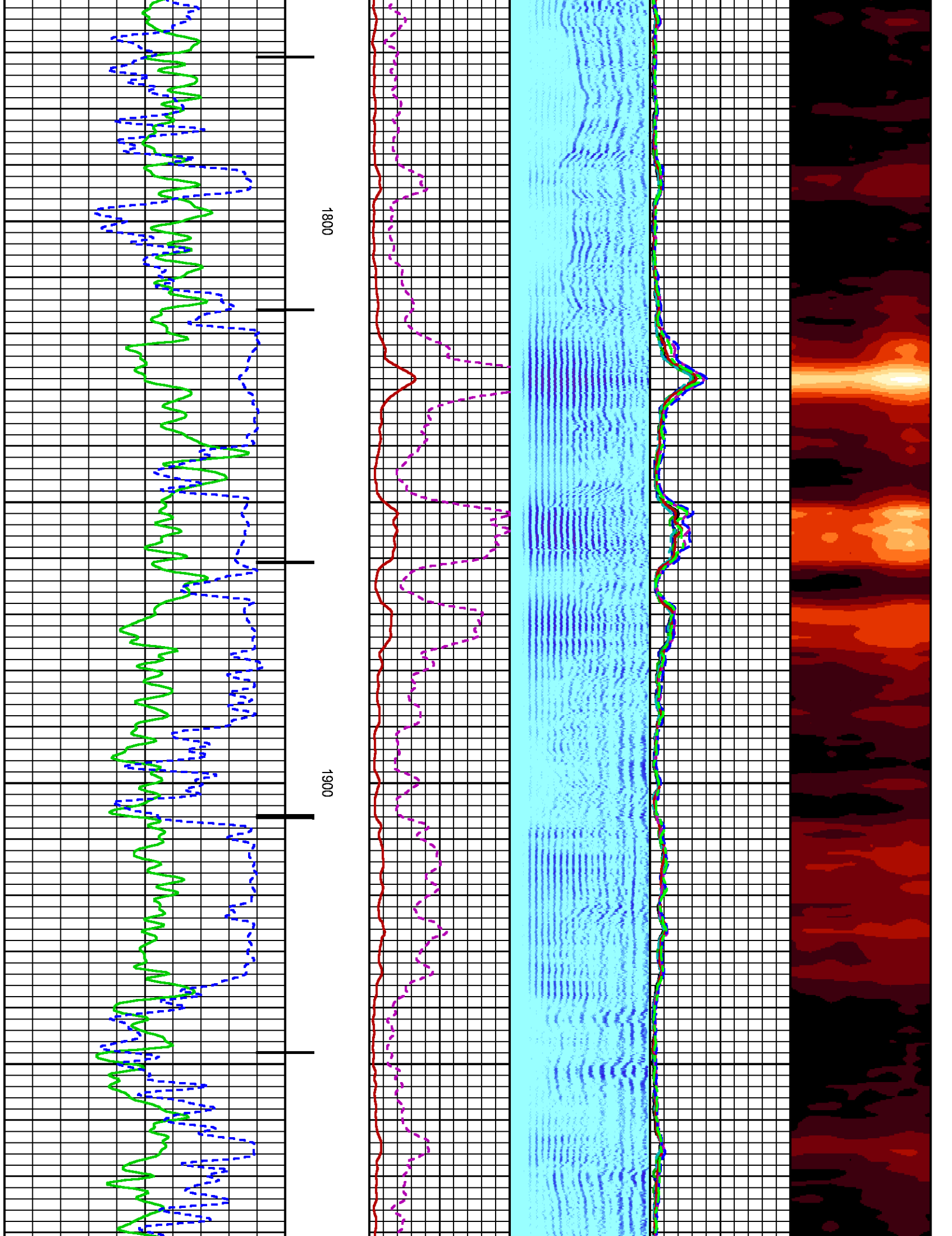


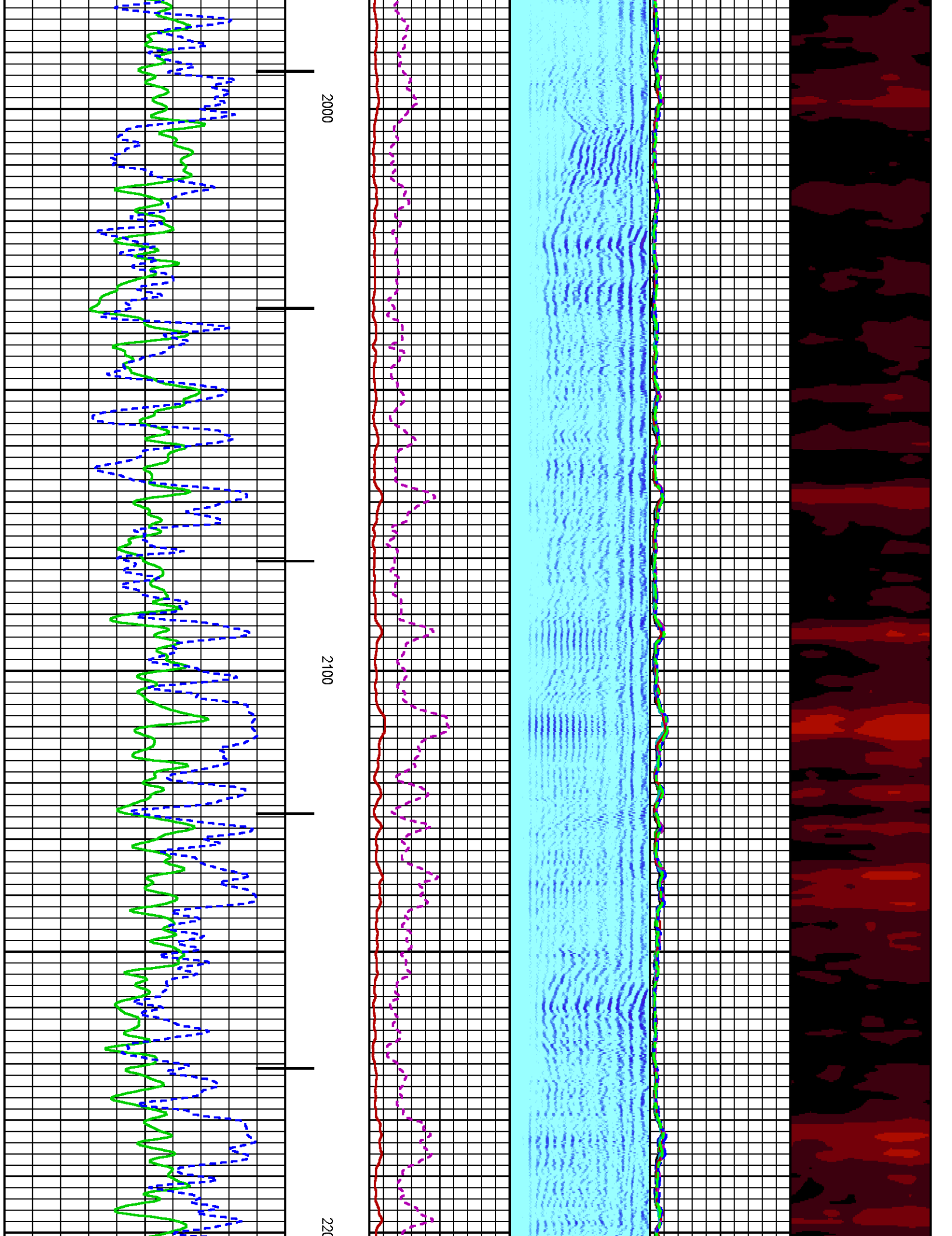


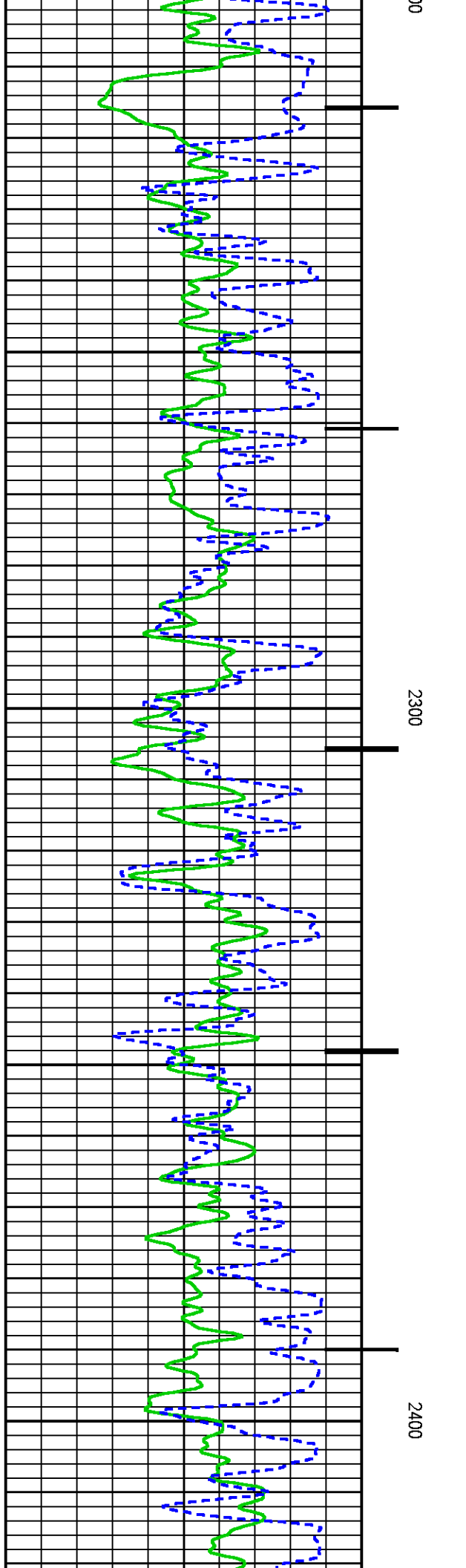
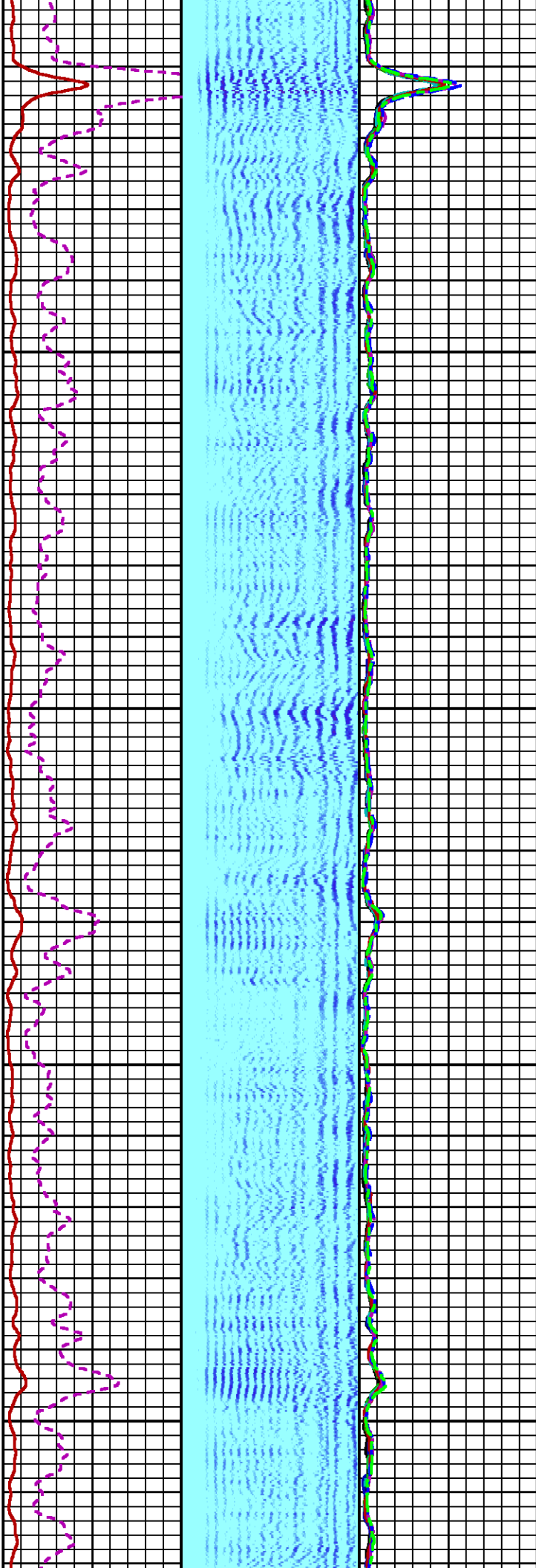
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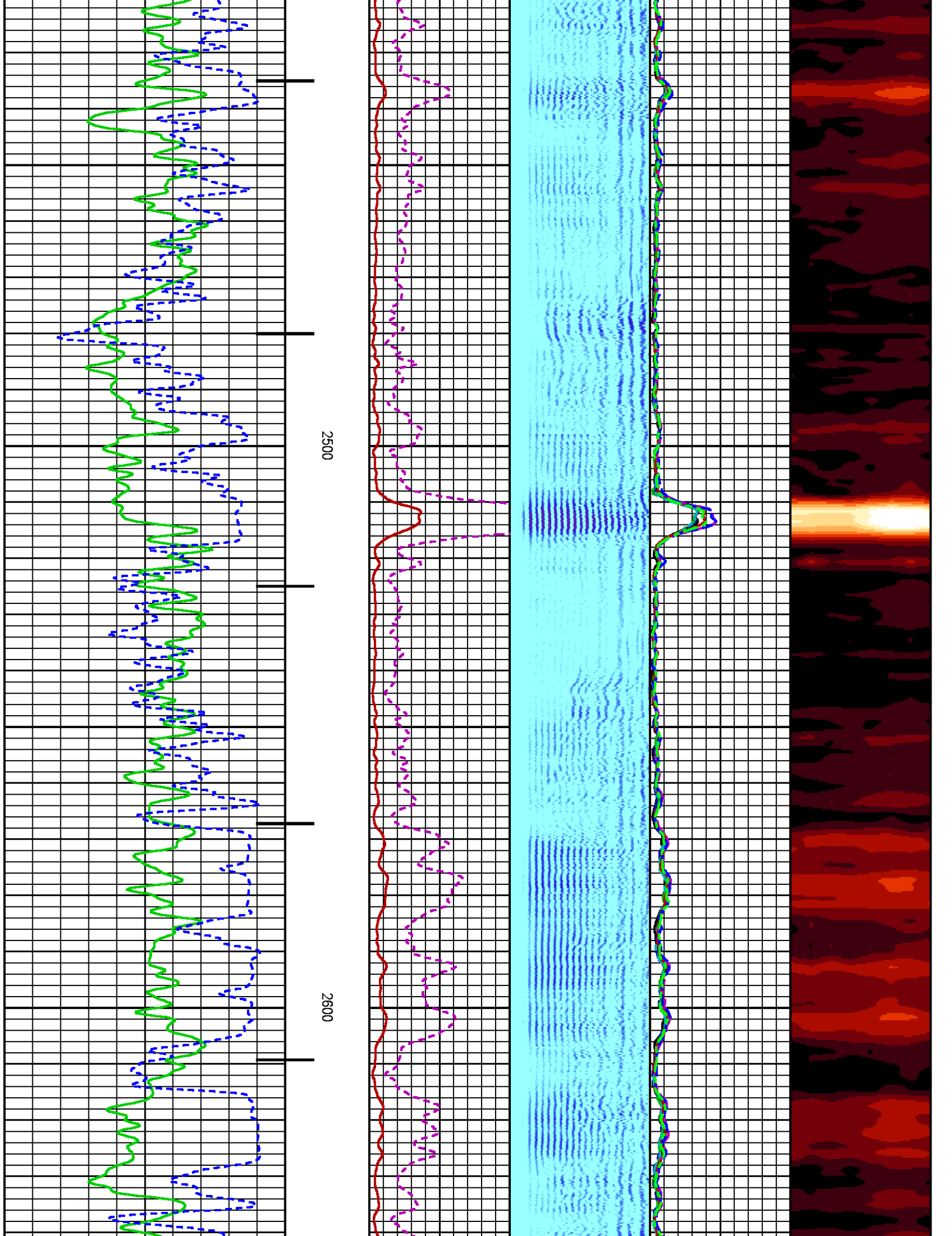
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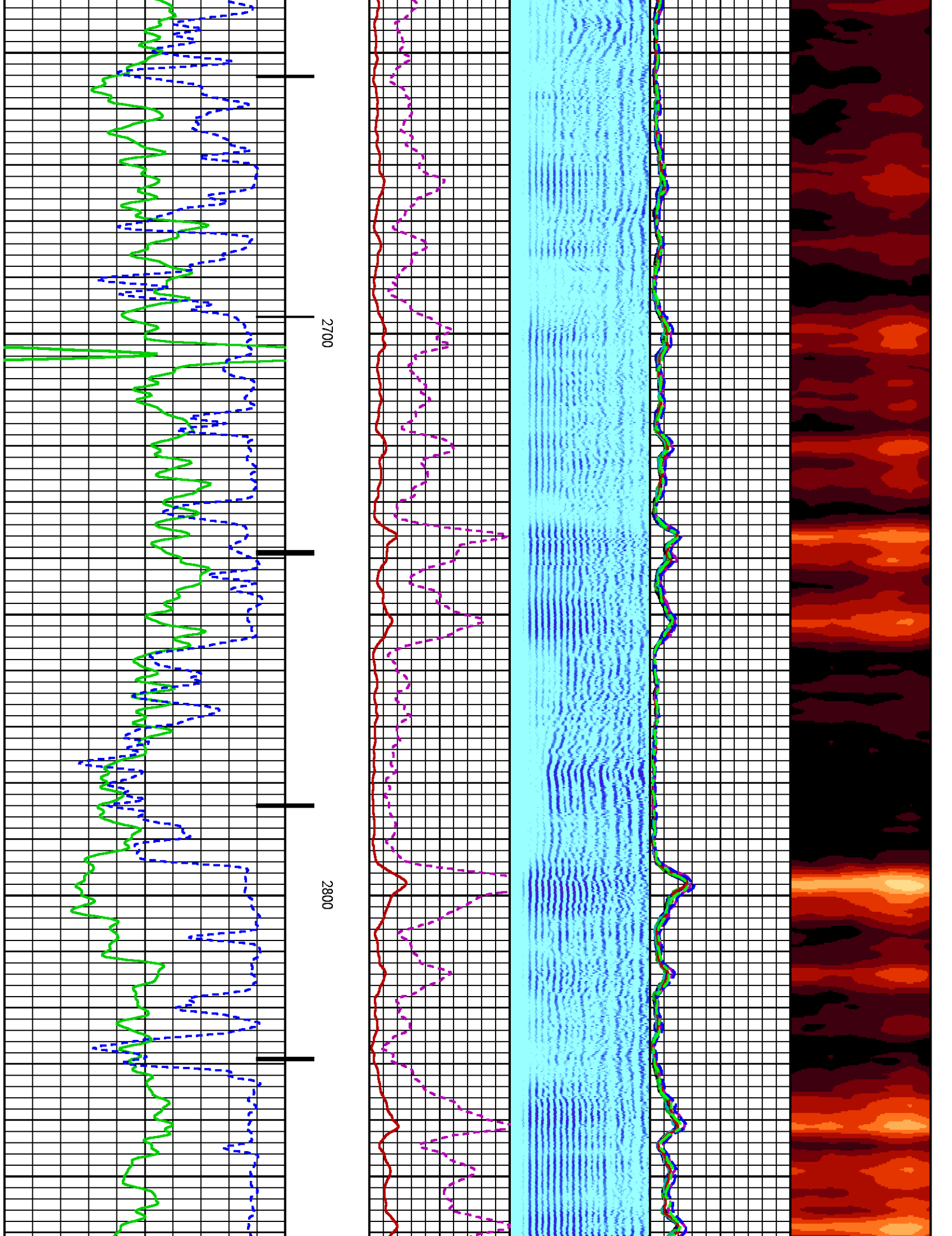


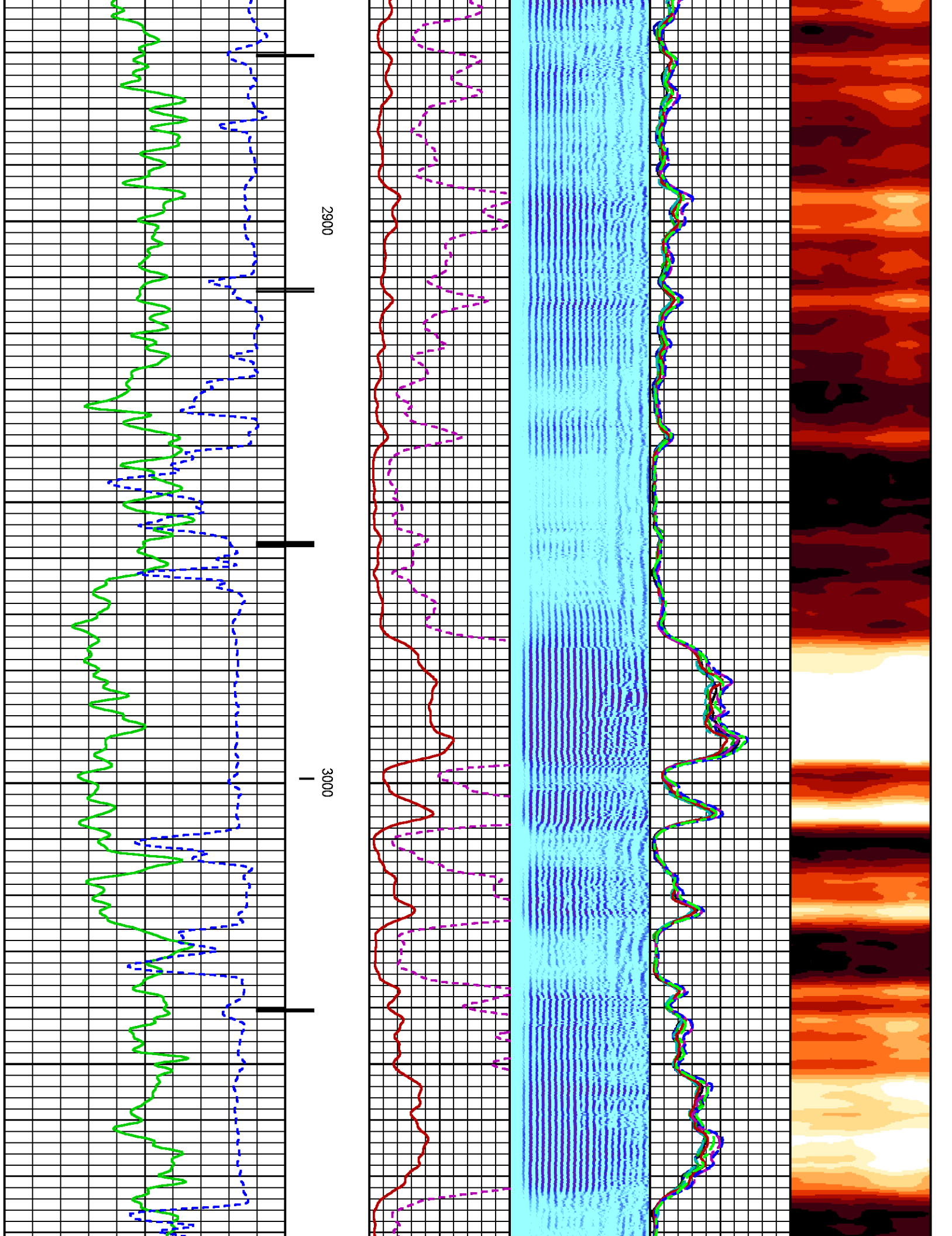


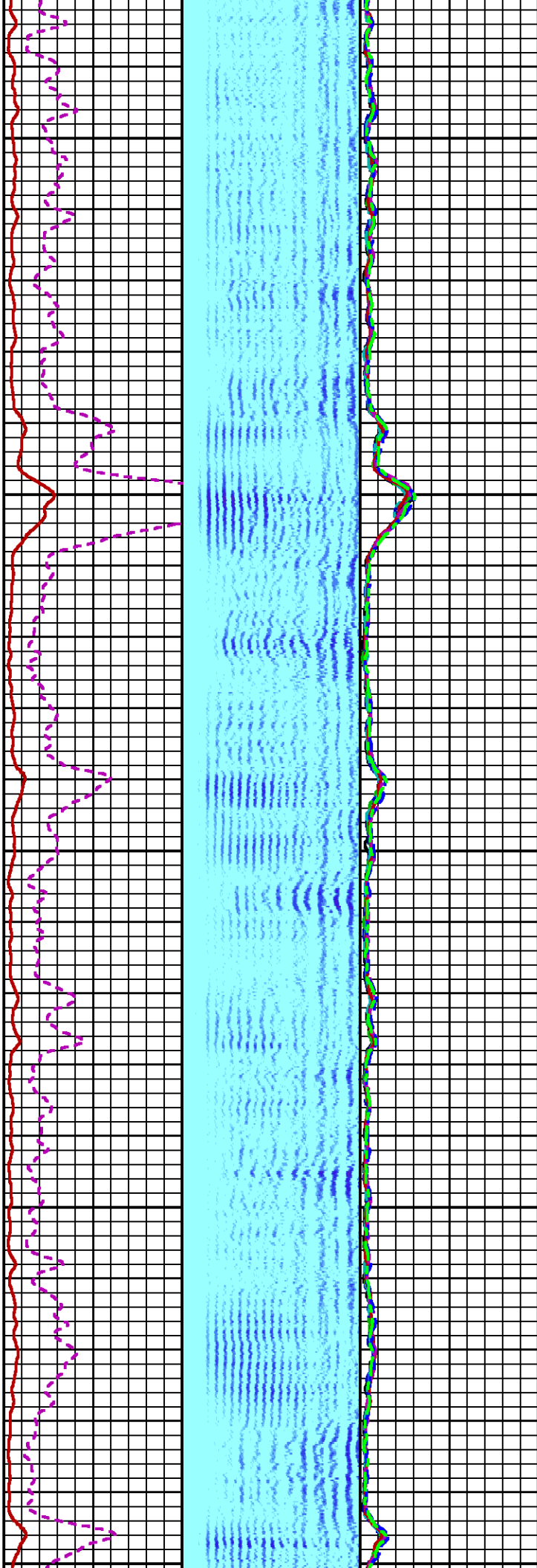
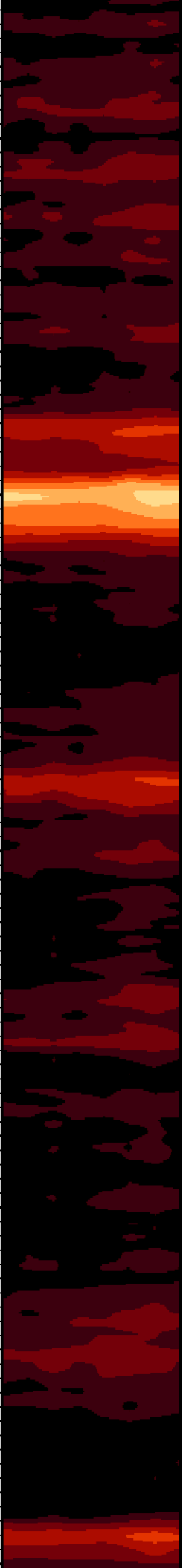








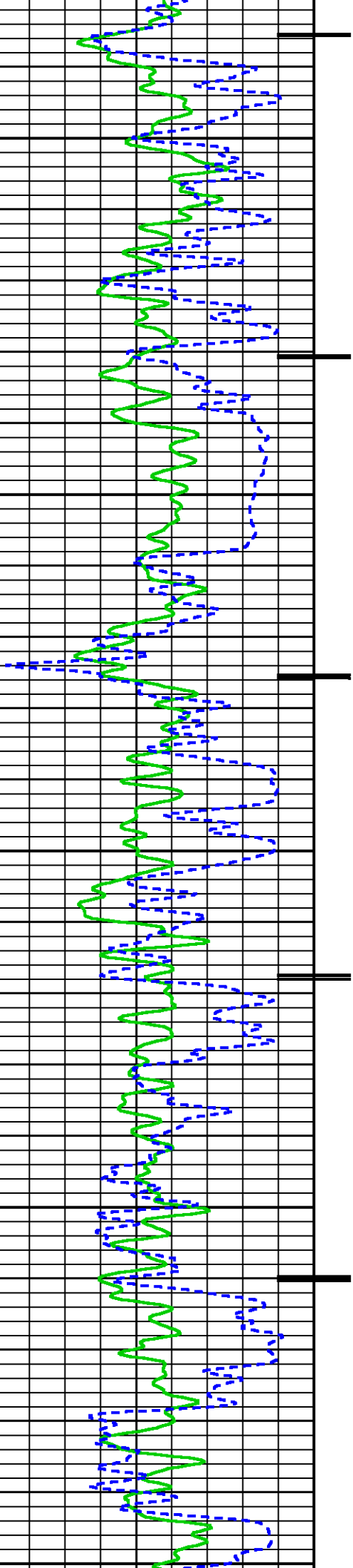


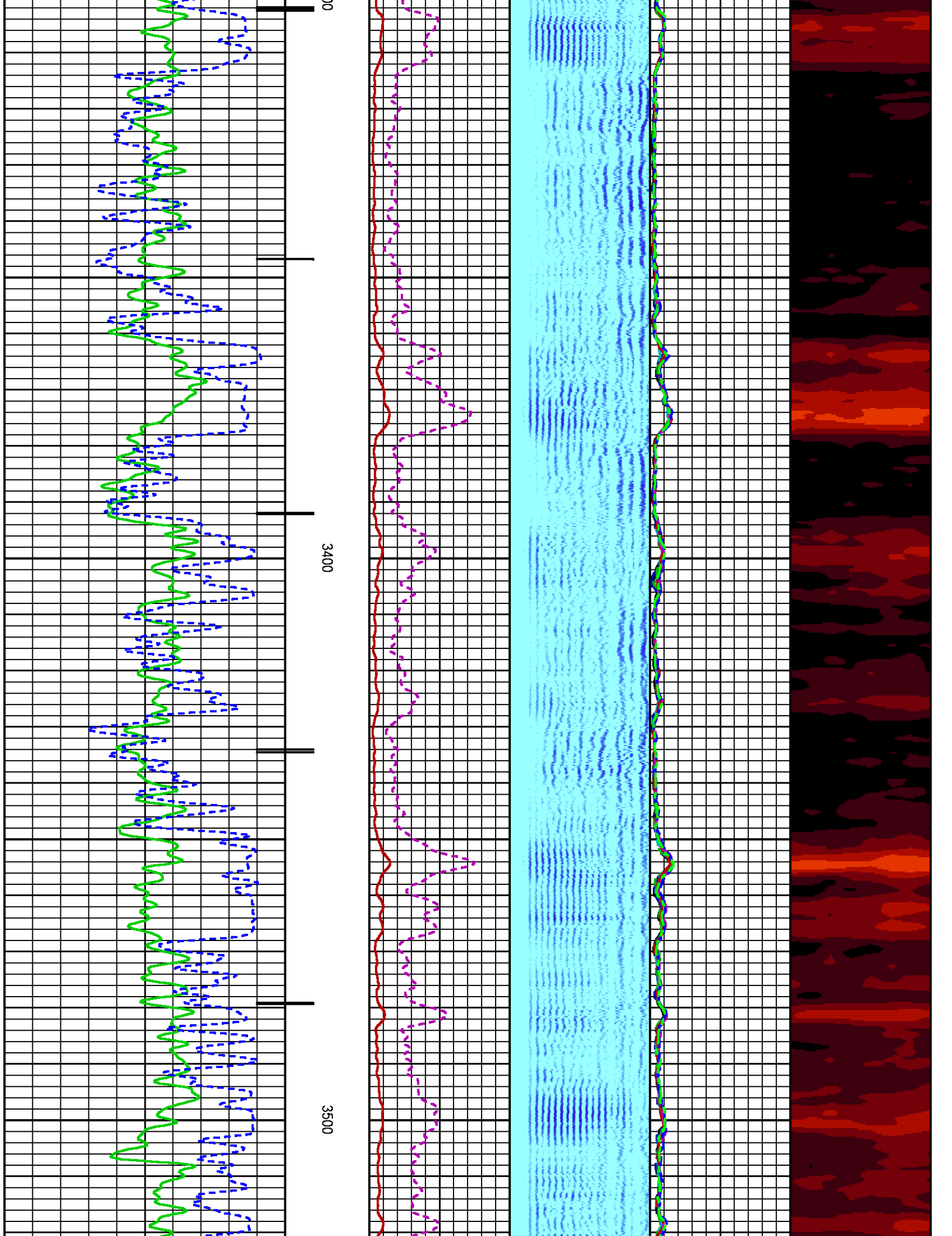


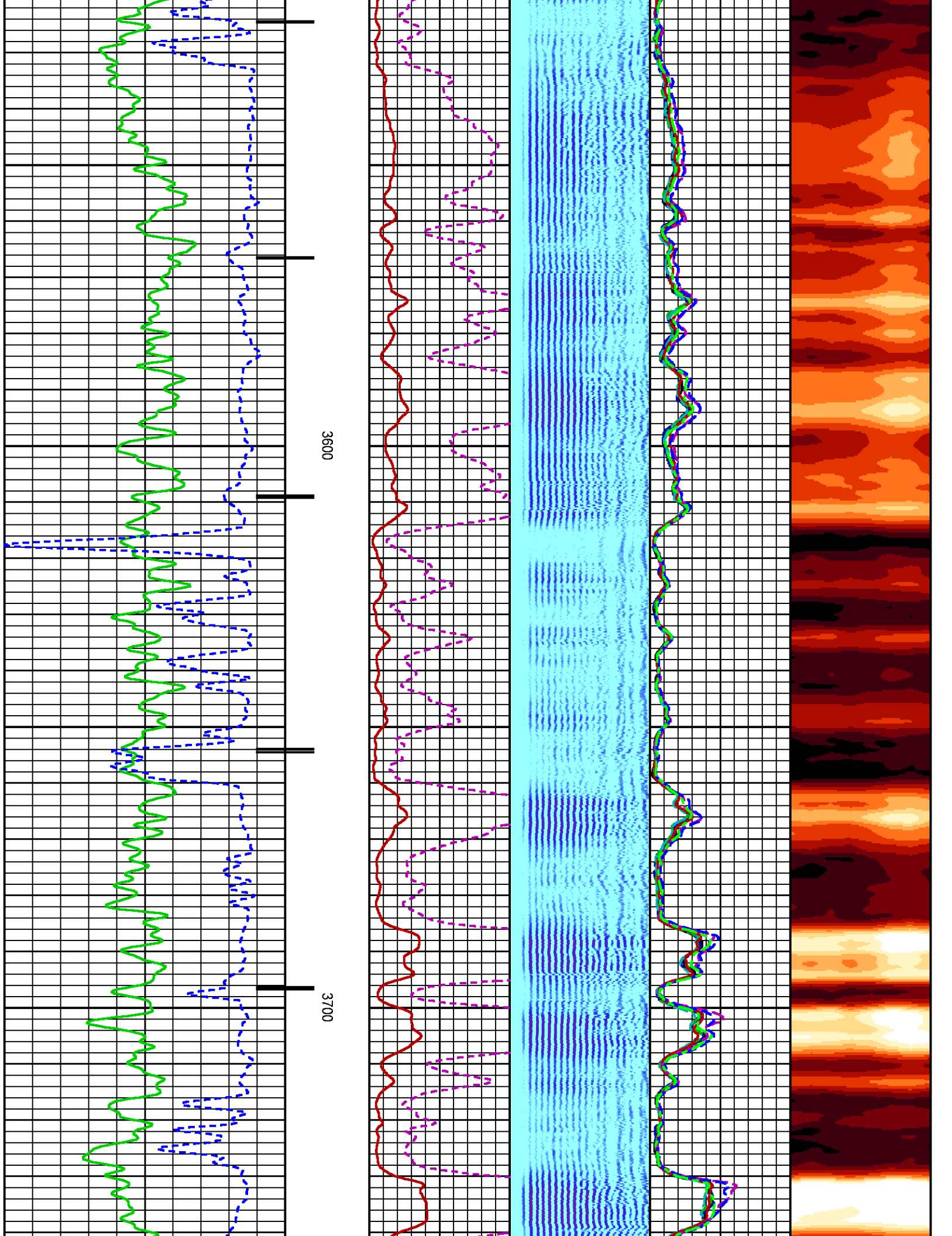
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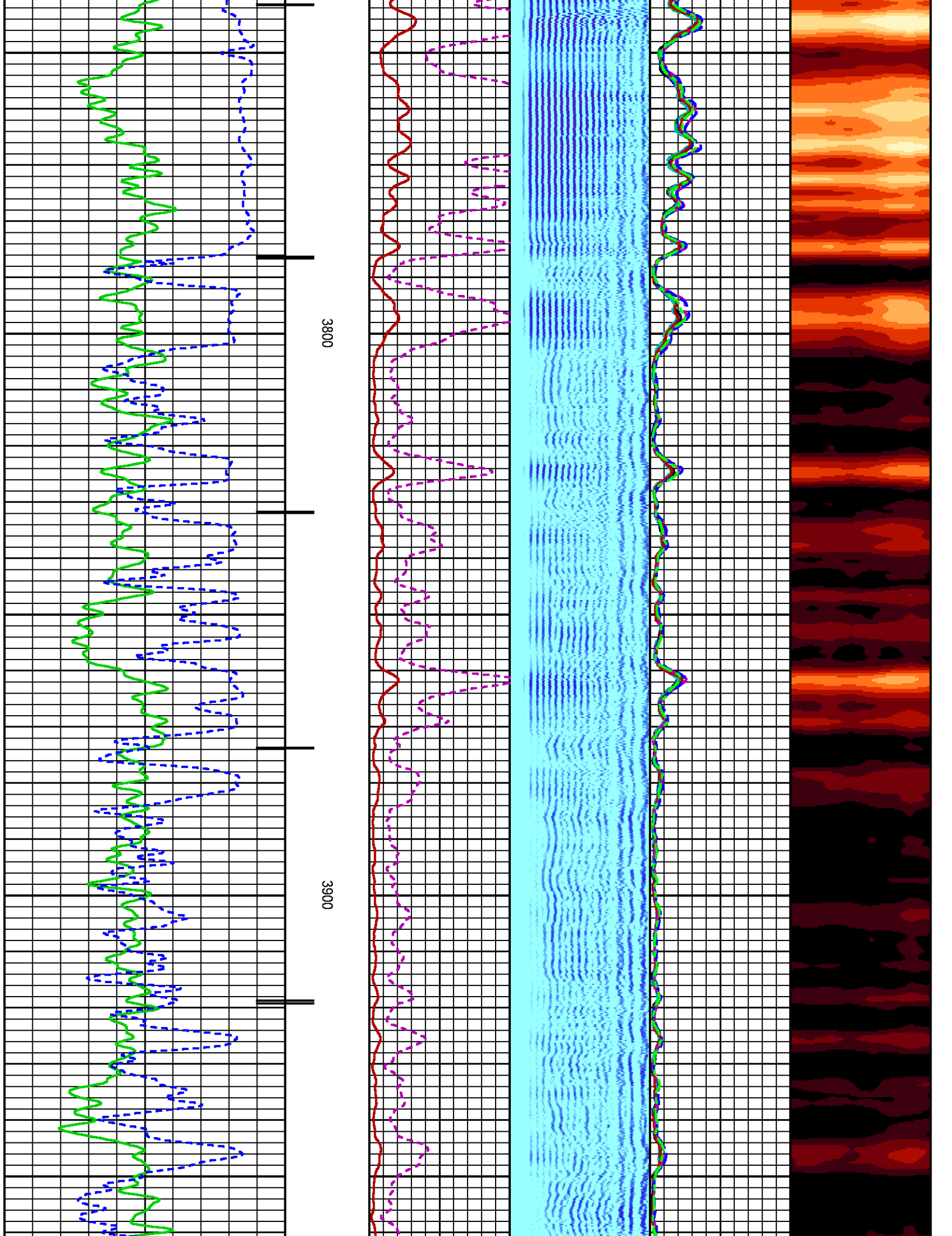
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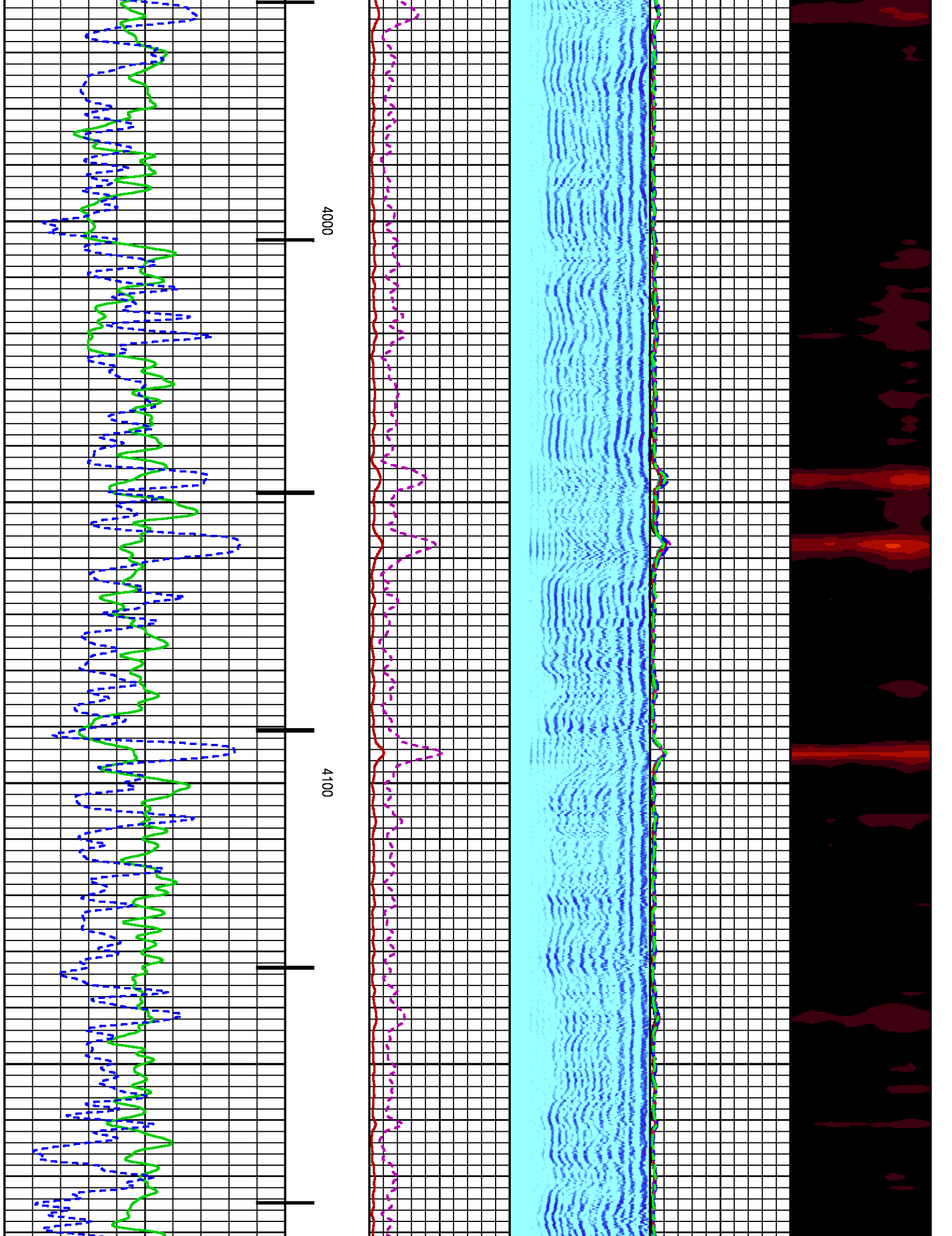
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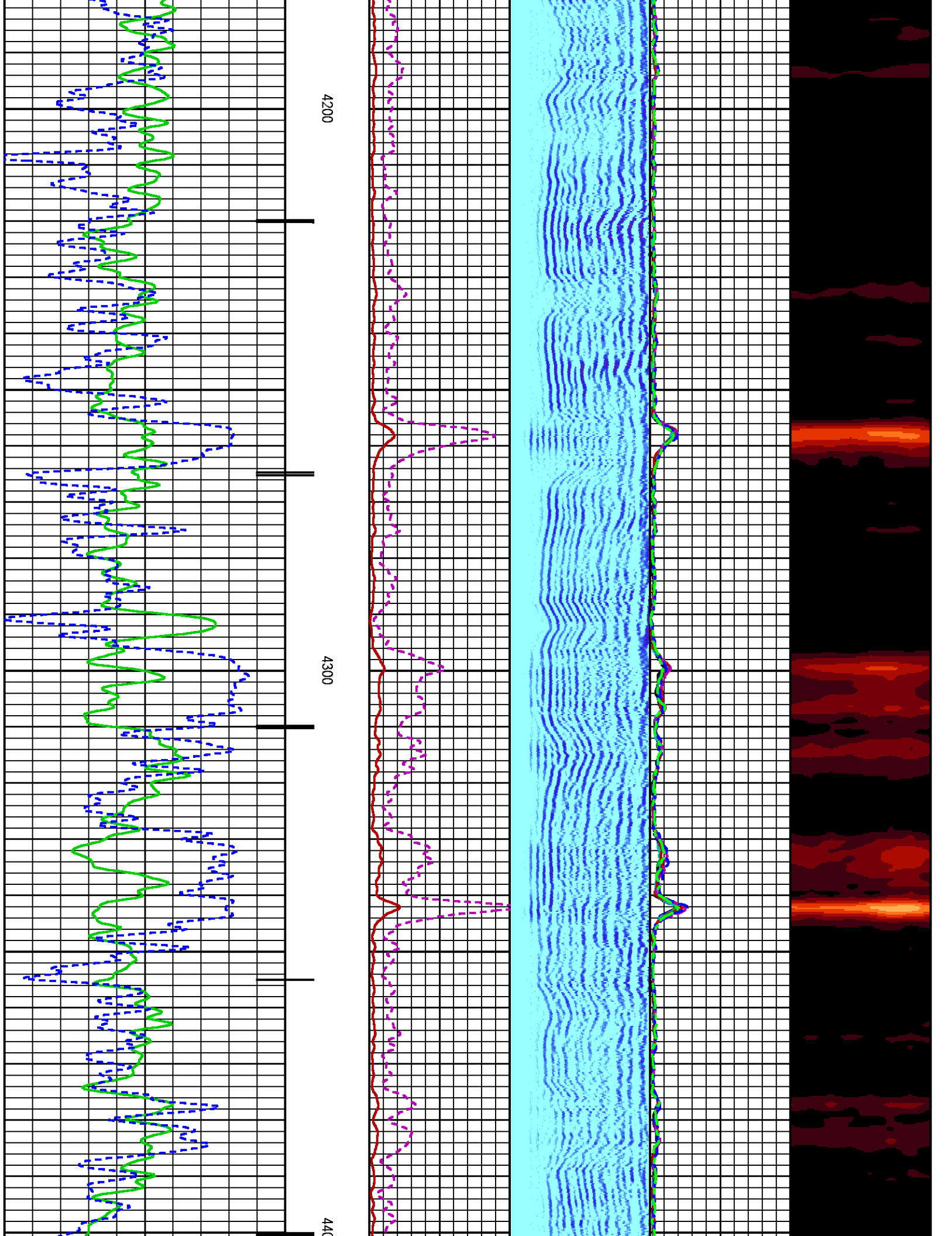


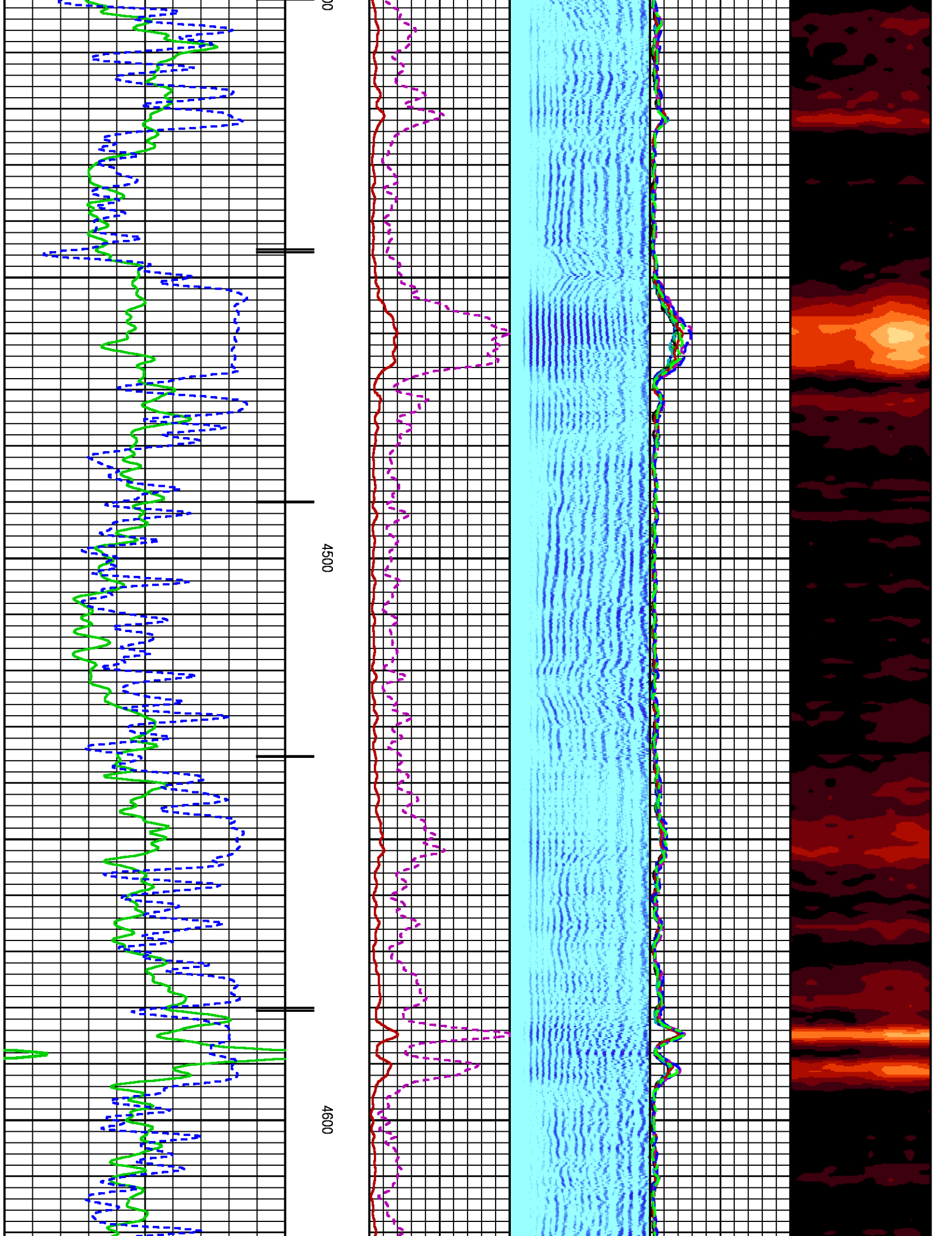


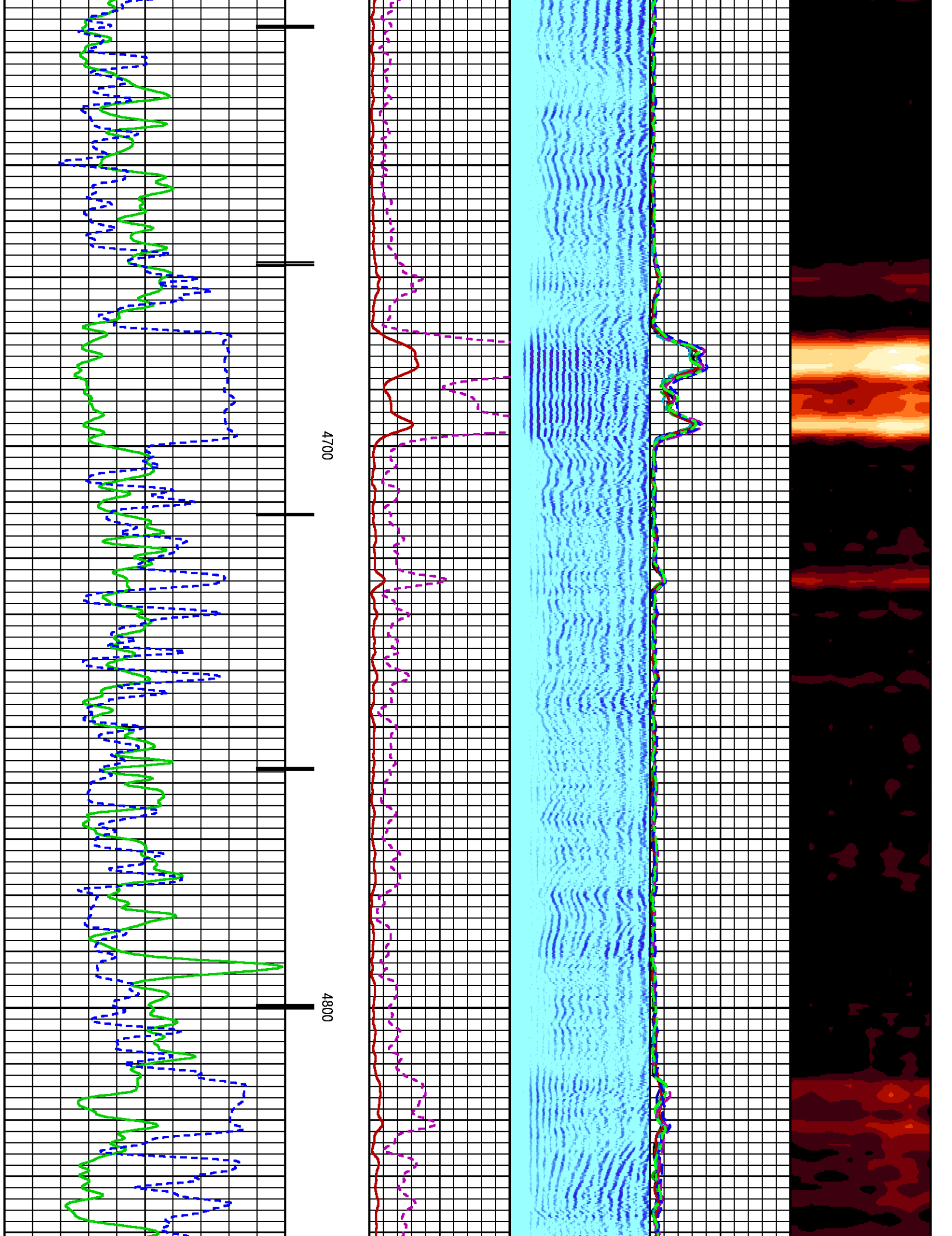


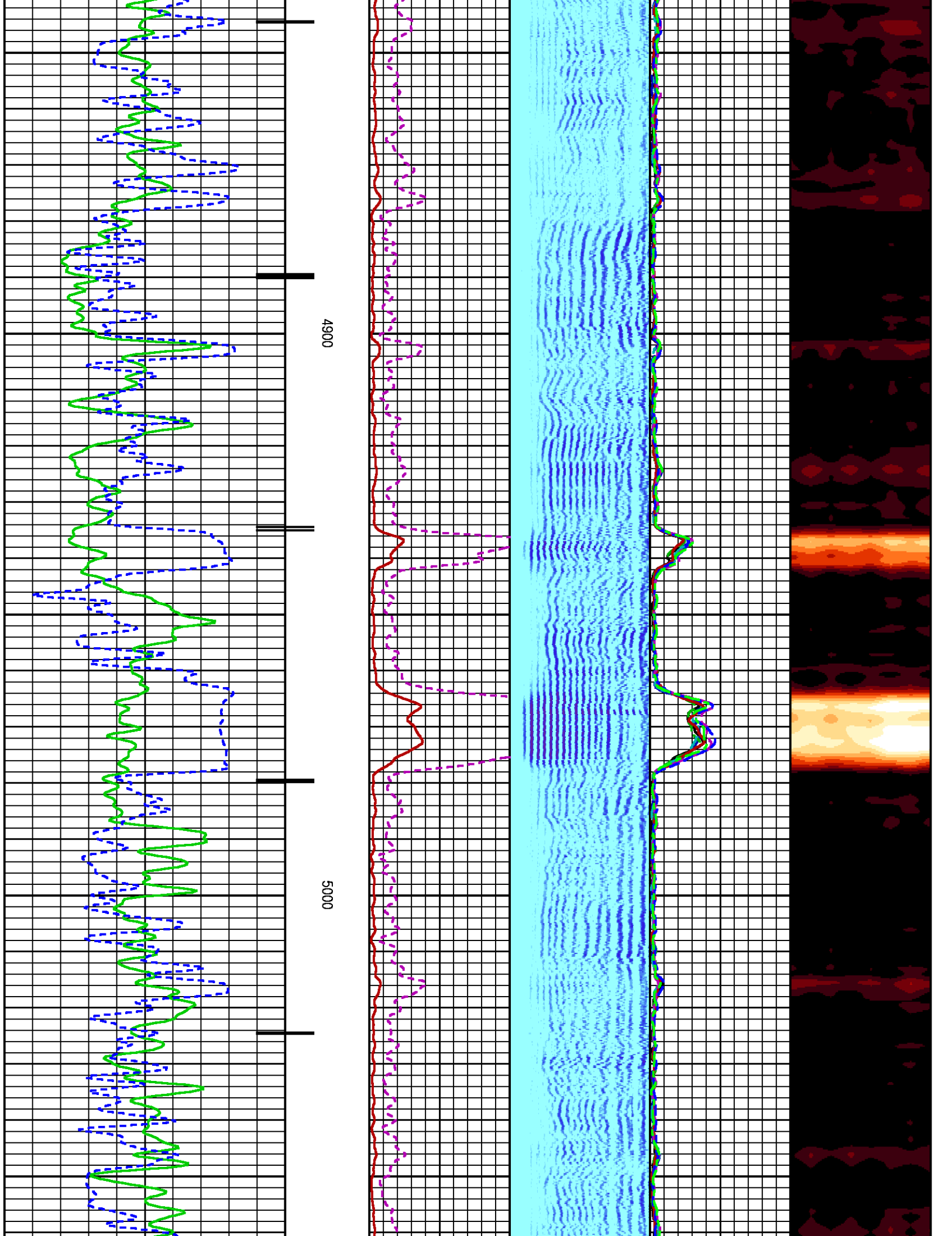


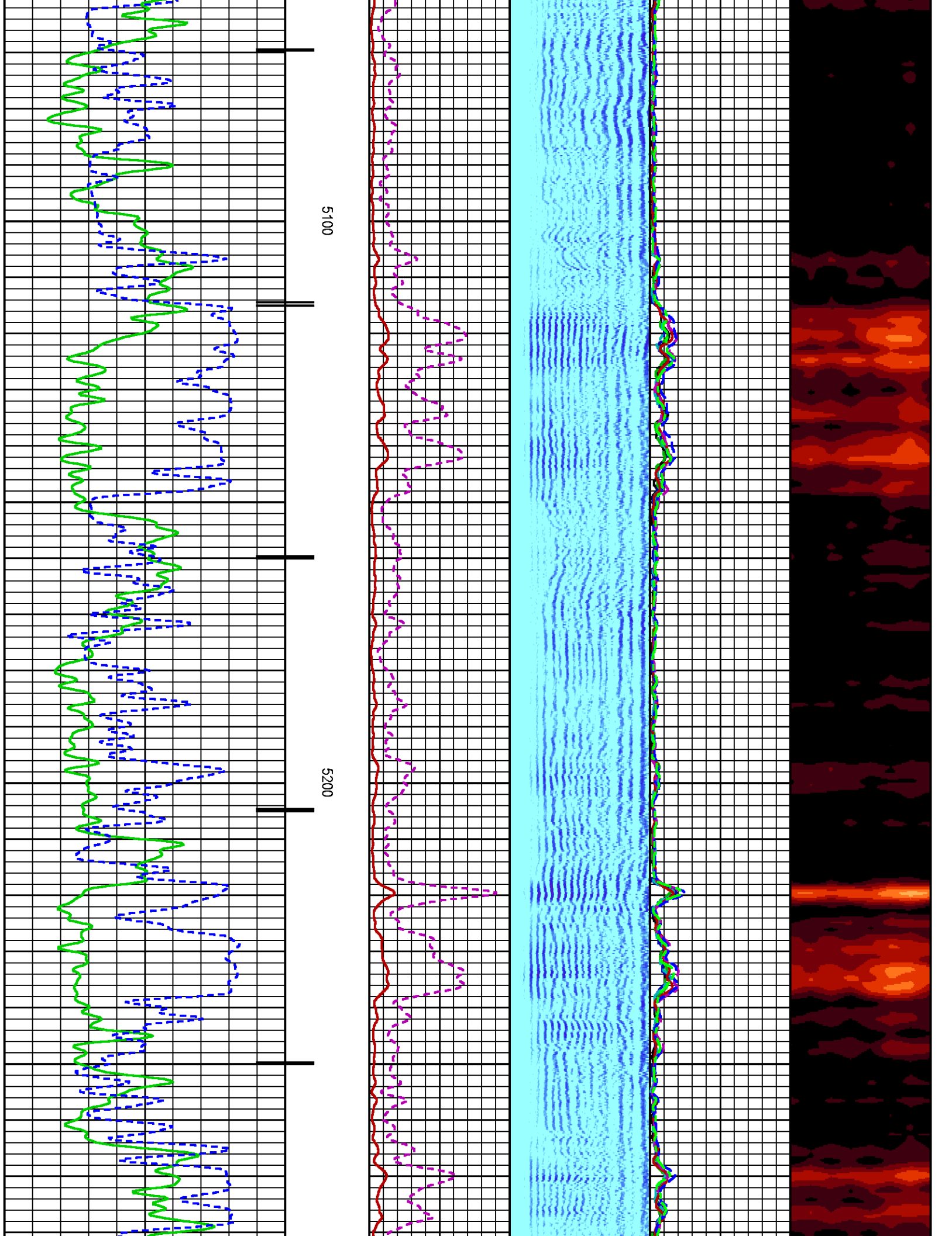


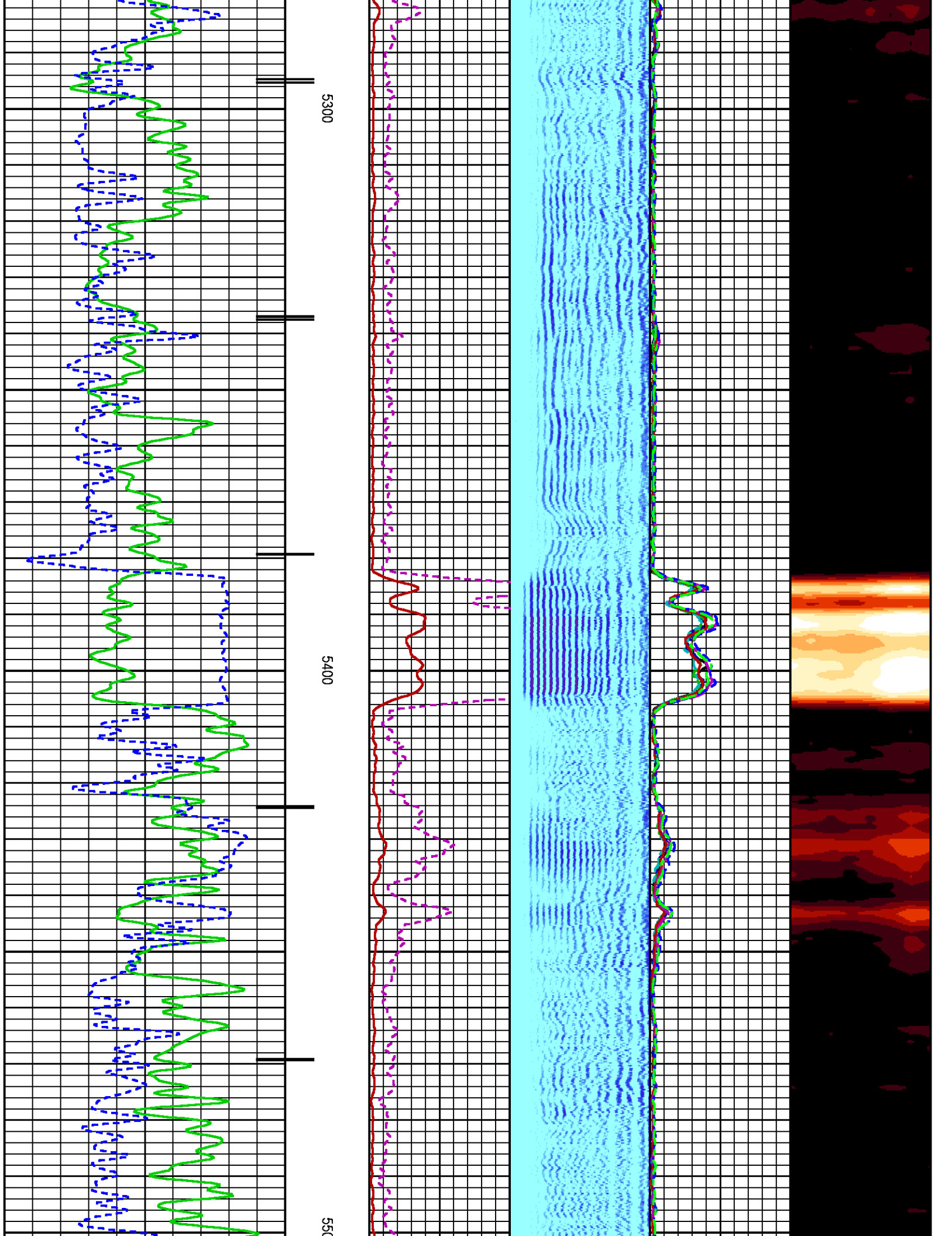


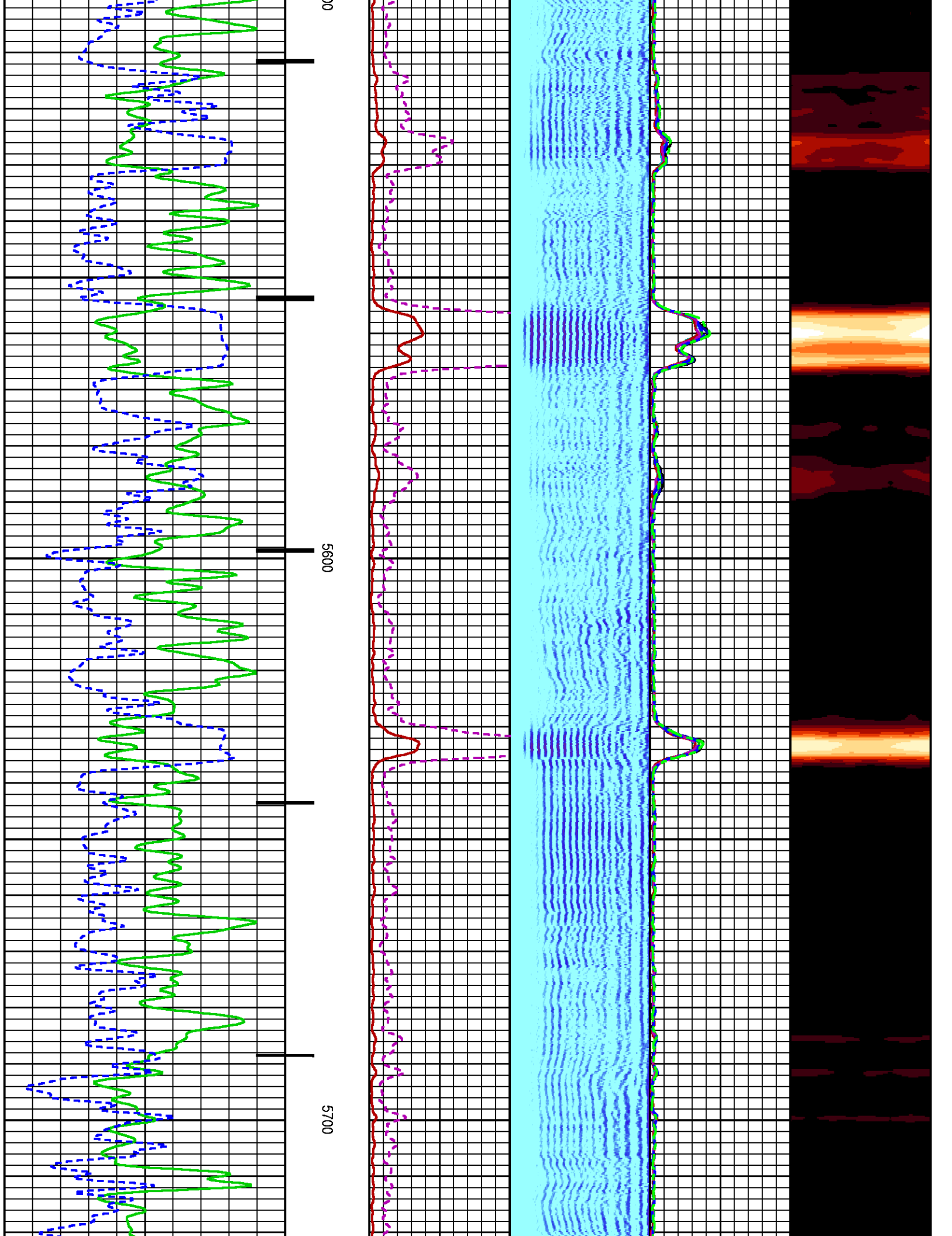


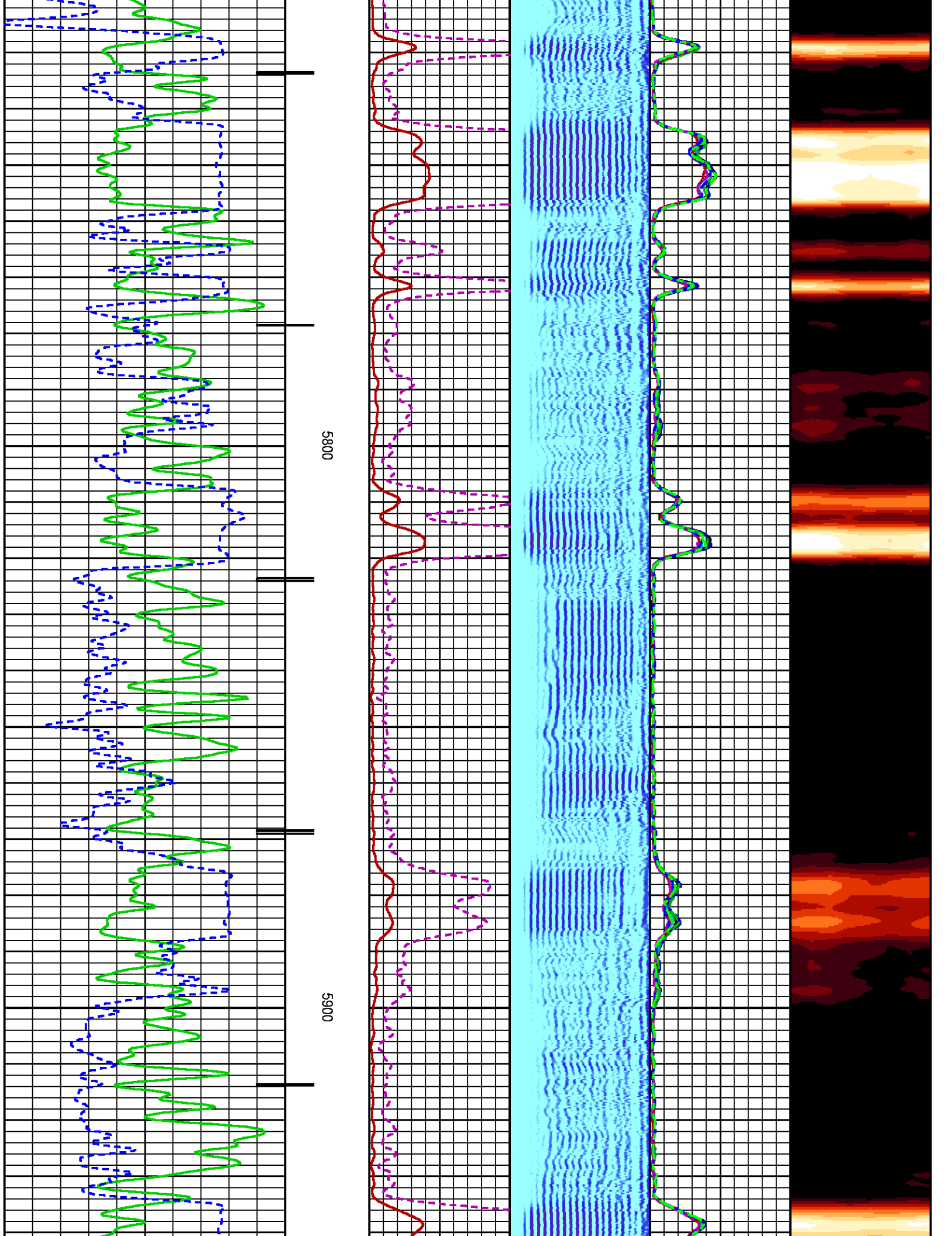


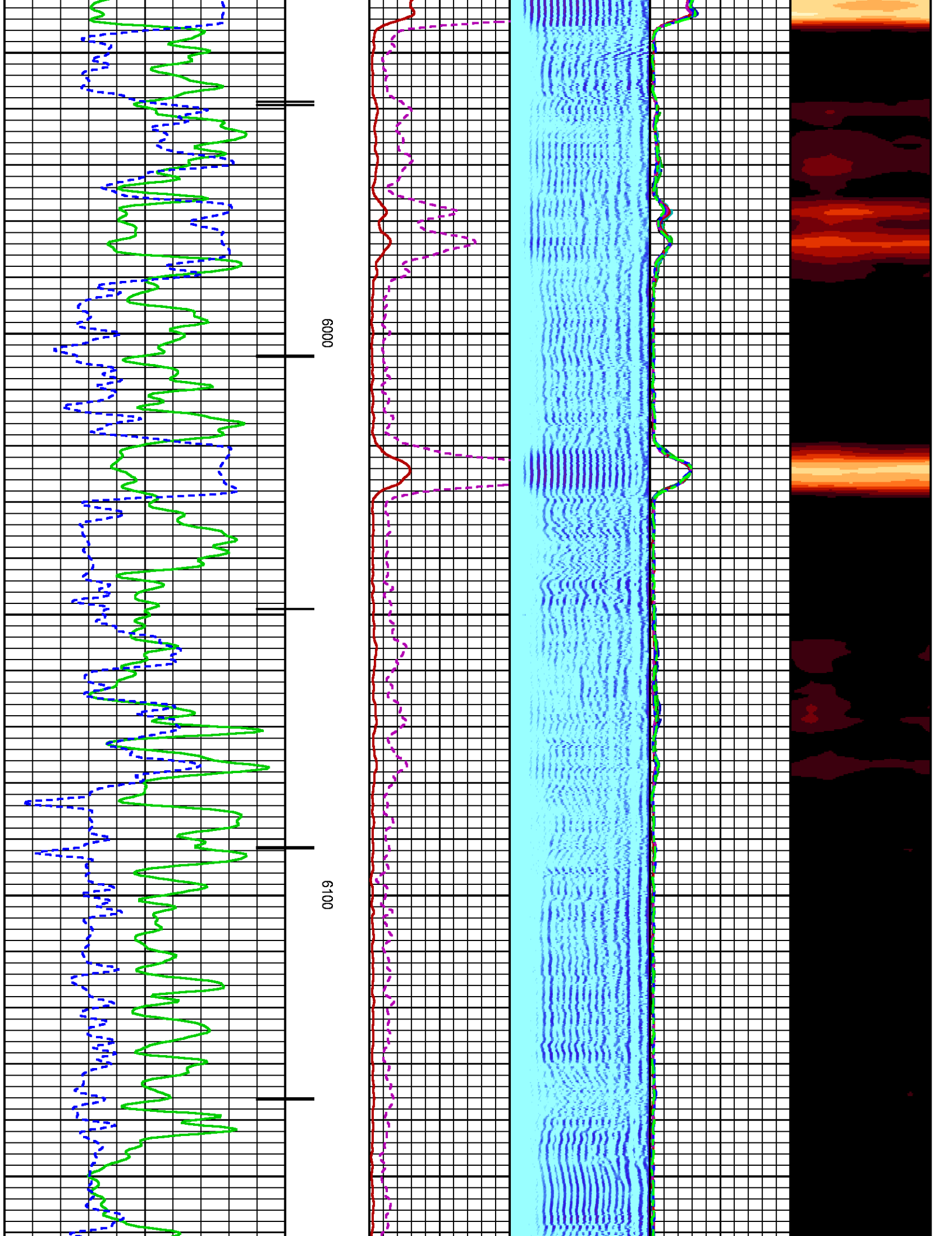


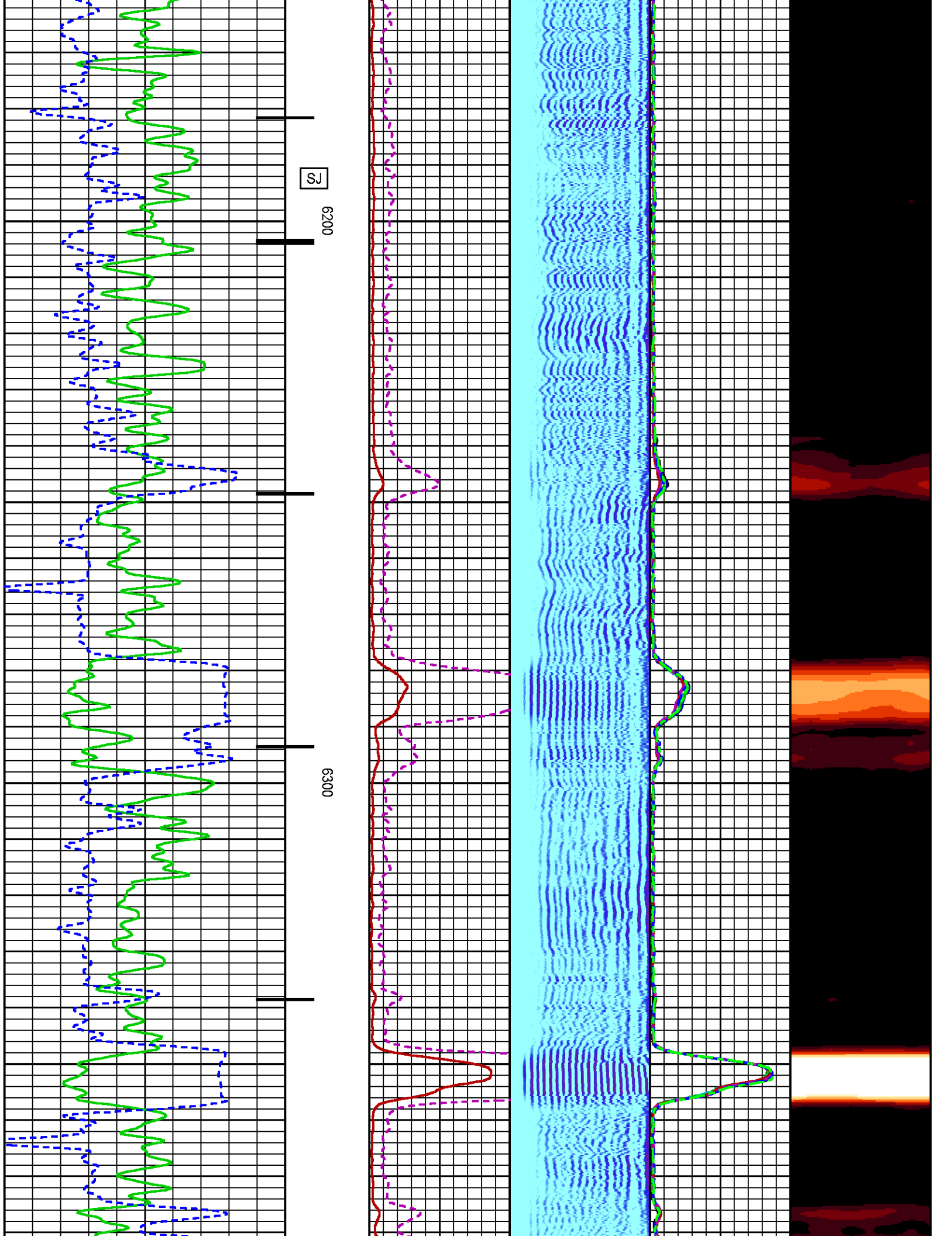


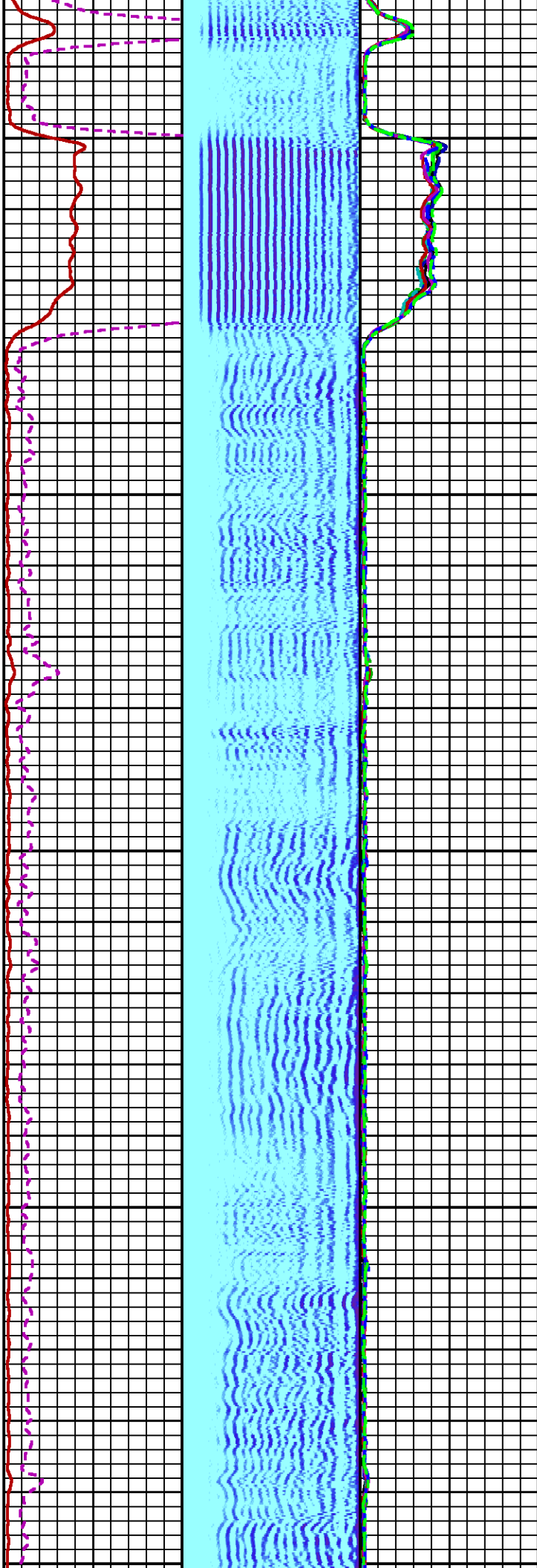
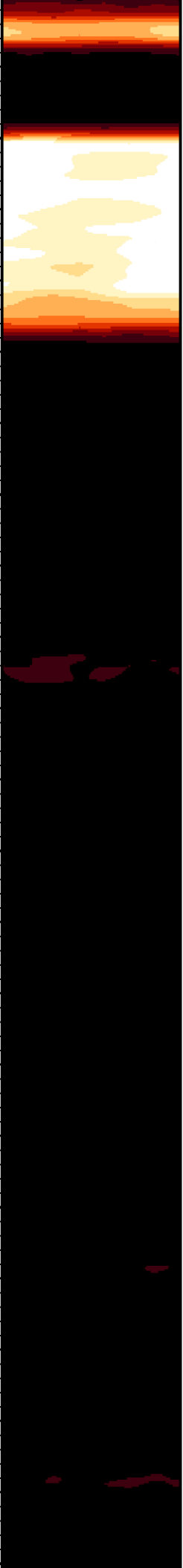








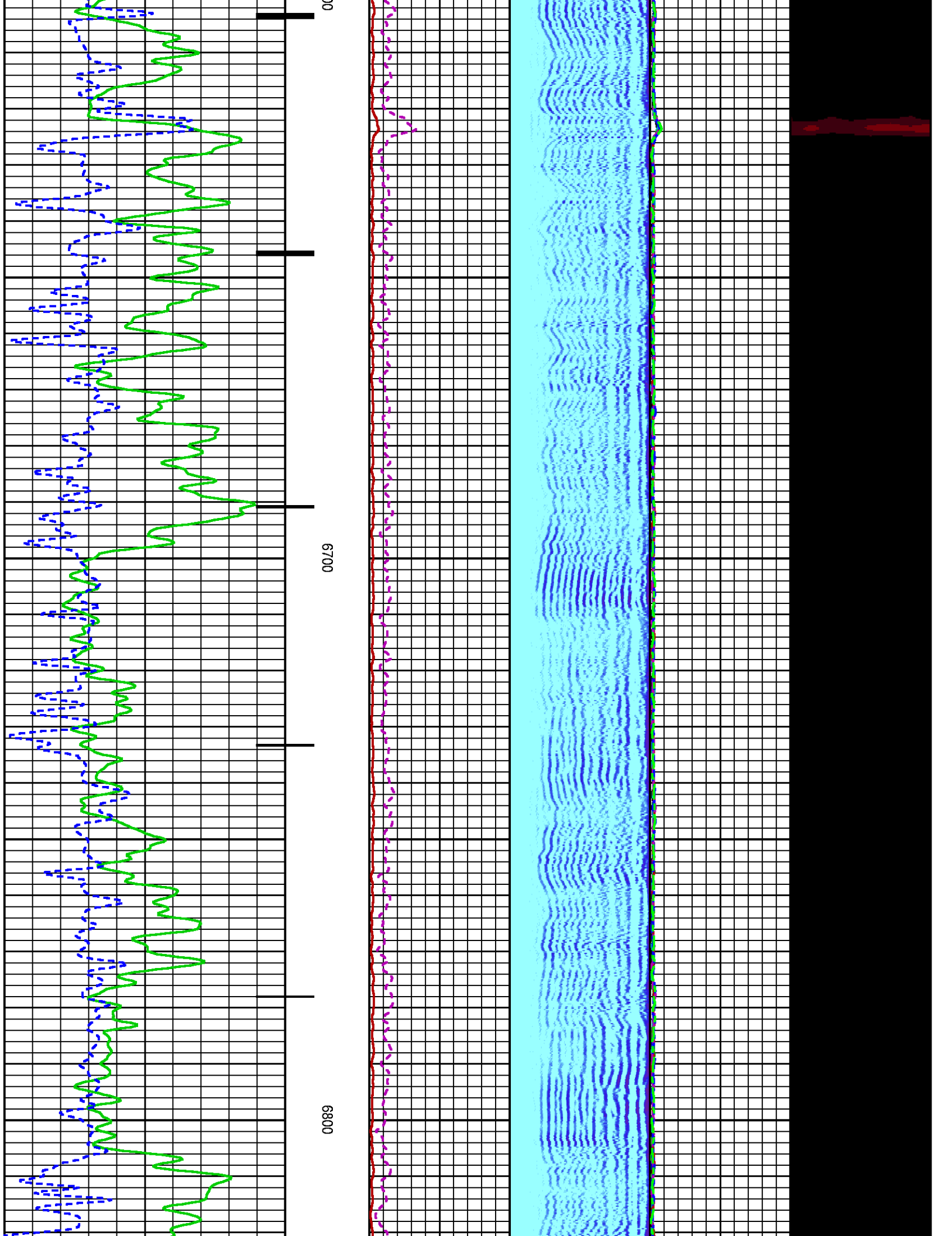


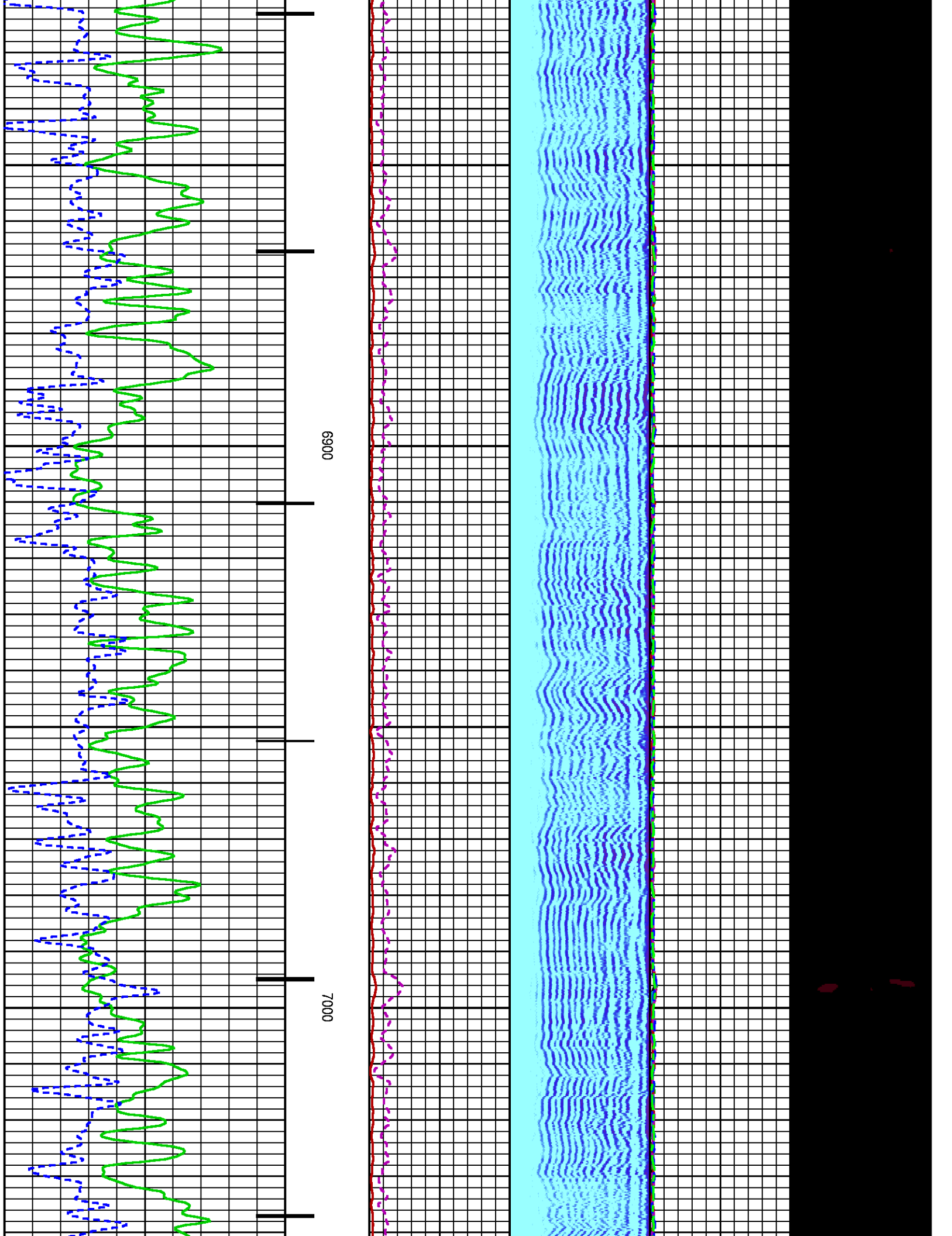


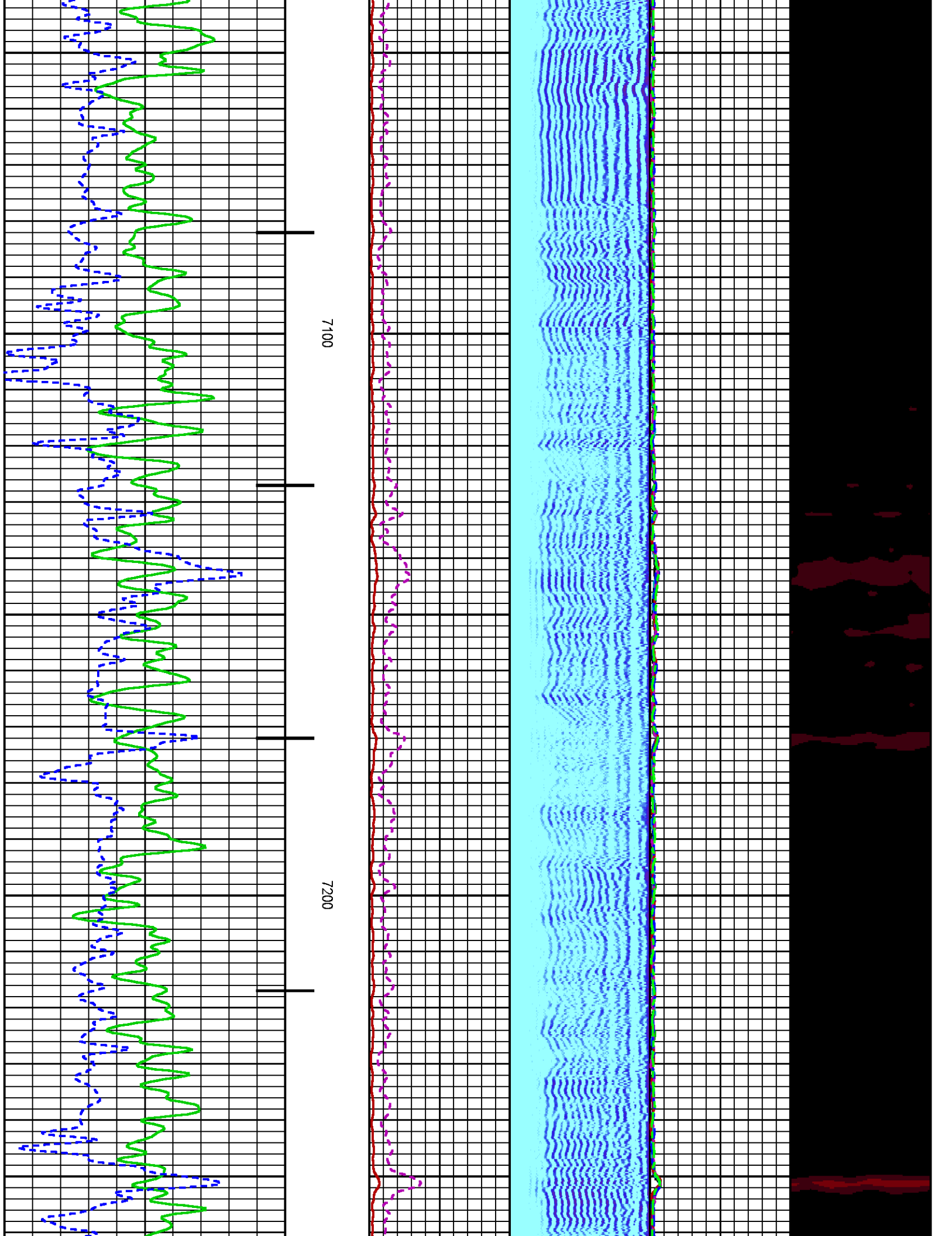
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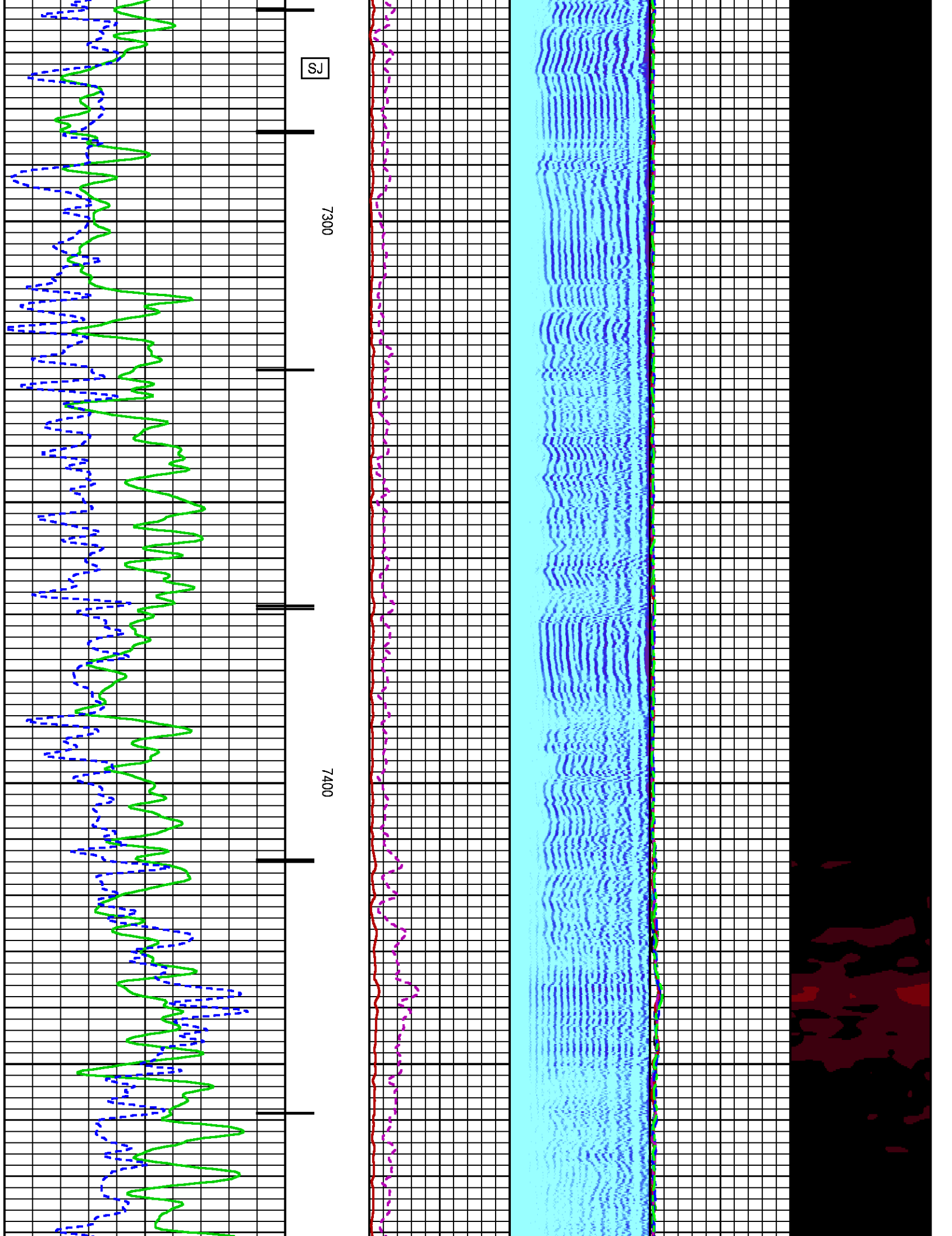
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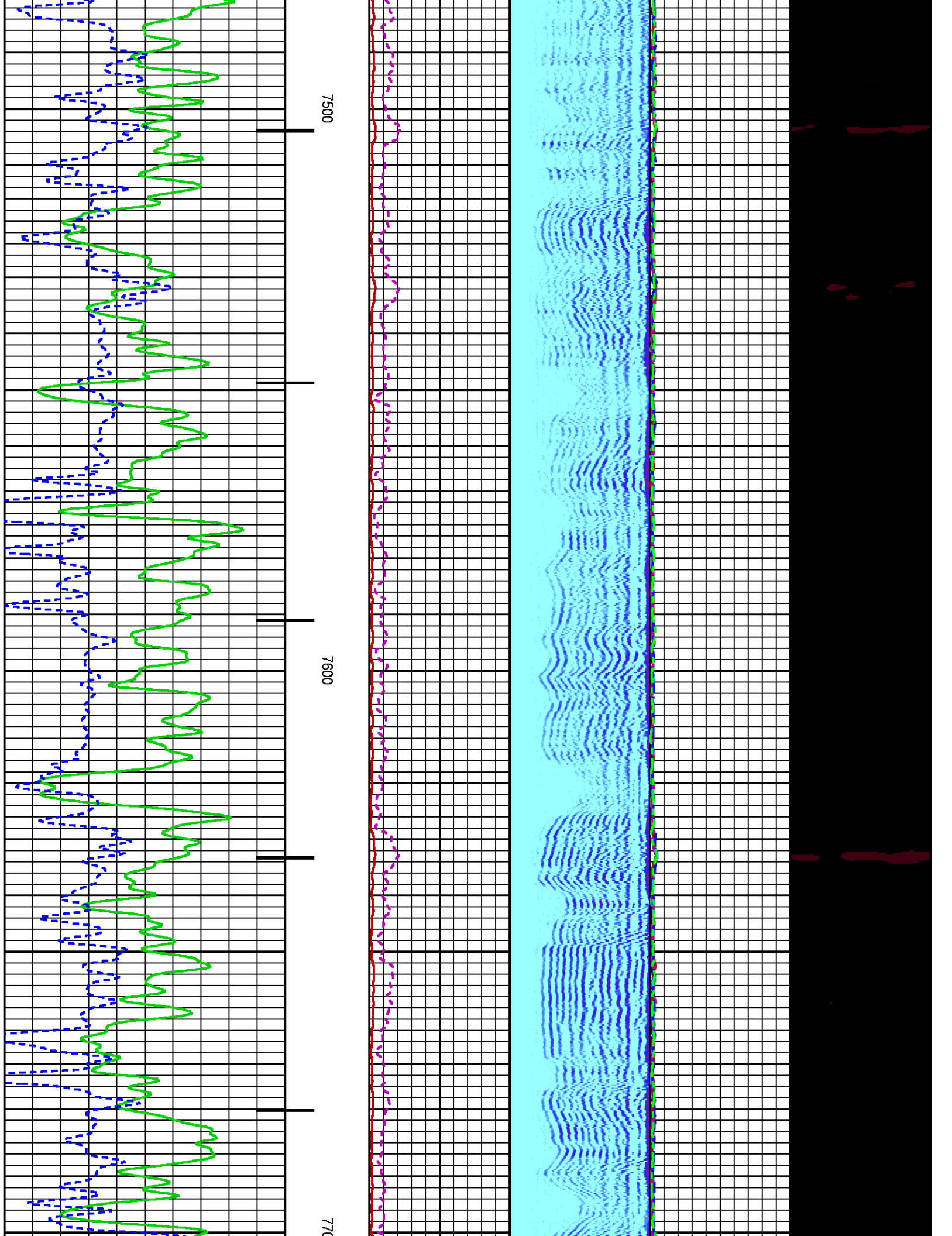
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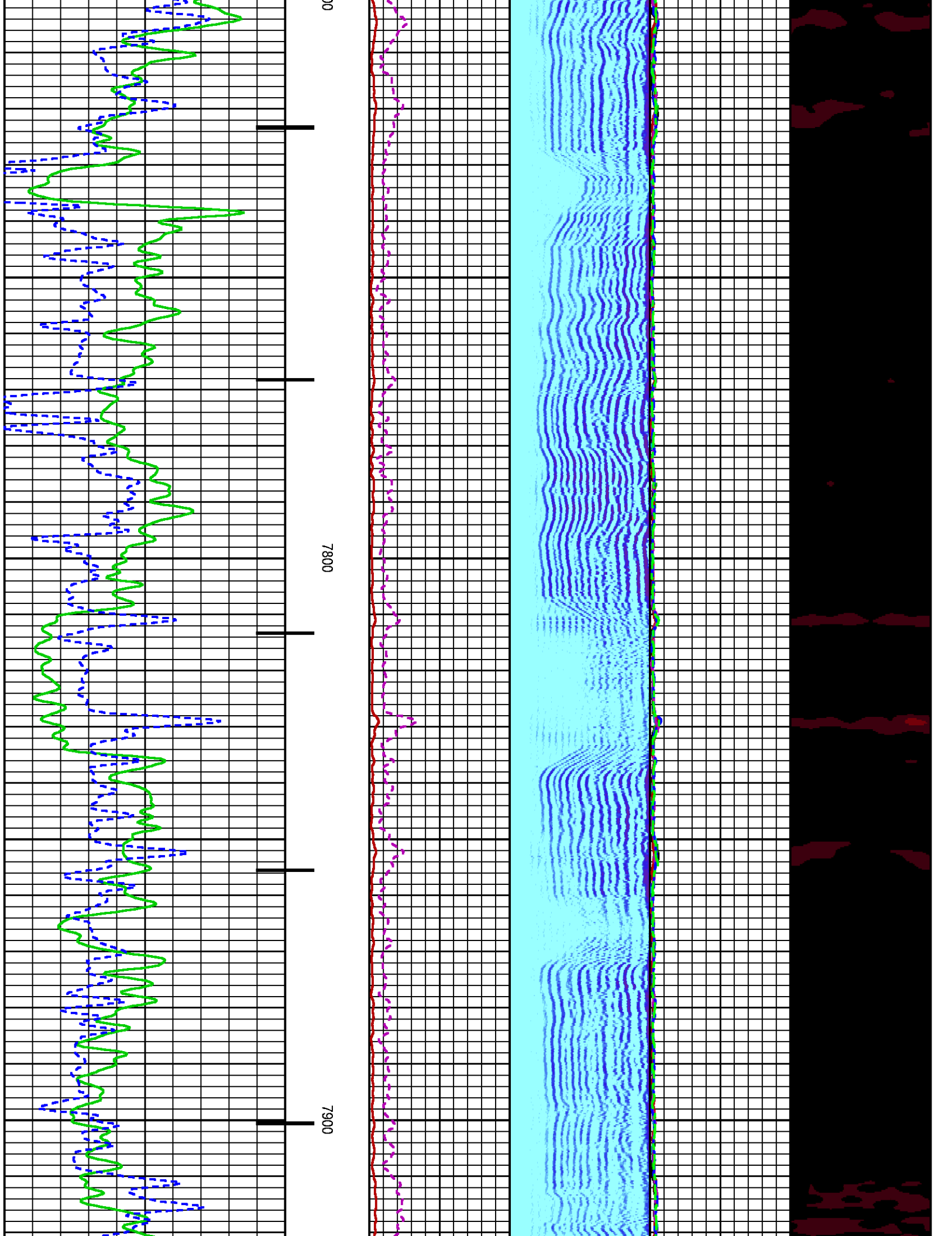


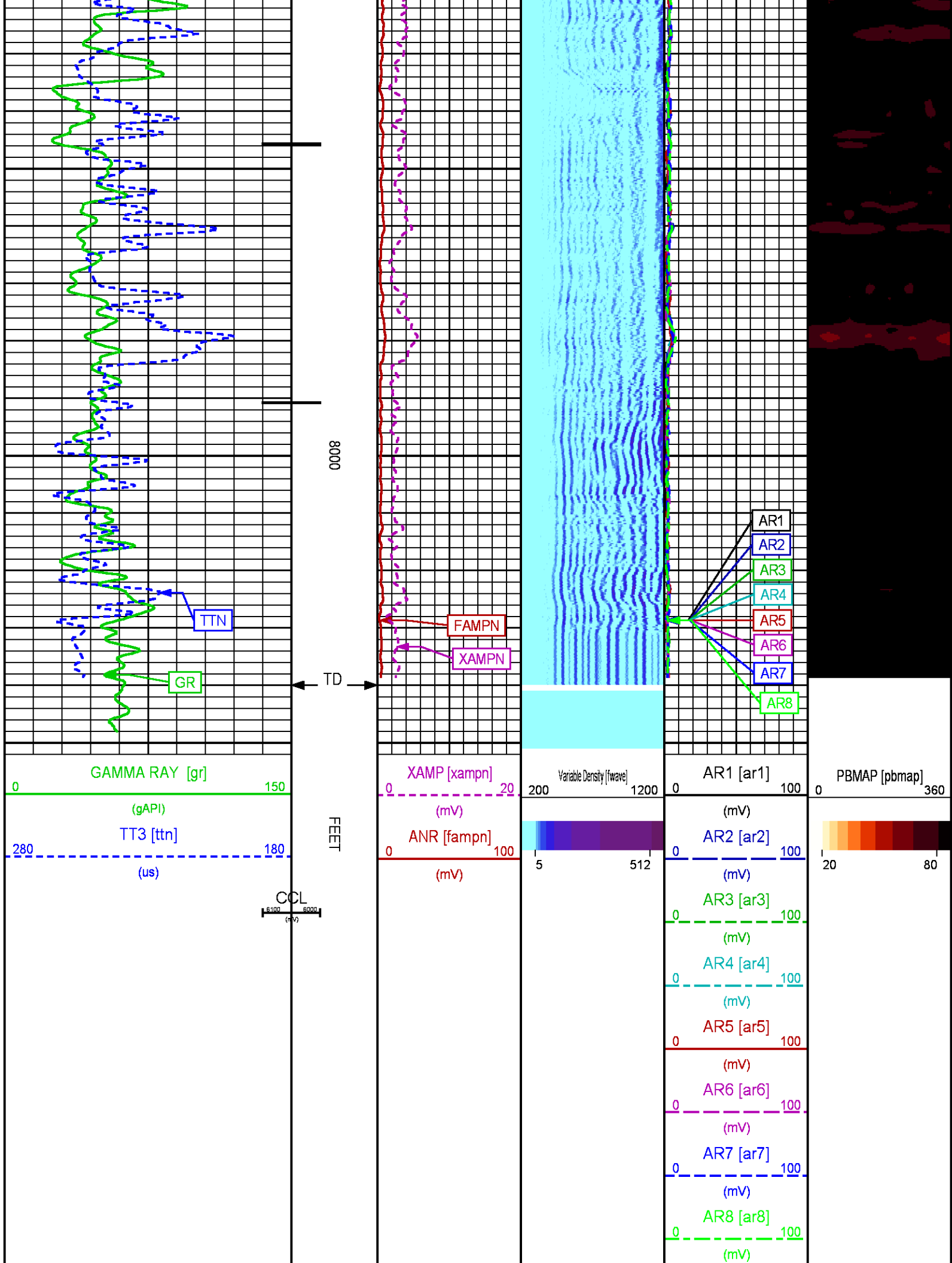












REPEAT PASS

ECLIPS 7.0i ECLIPS General Release Rel 7.0i Thu Jun 08 20:36:10 CDT 2017

Patches: 2

Plotted: Mon Feb 5 18:49:16 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/LARAMIE_BRUTON_30-14W/p012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 7256.500 ft BOTTOM DEPTH: 8028.818 ft

SYMMETRIC FILTER

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|------------------|-----------|------------|-------|---------------|--------|
| GR | FILTER () | medium (1) | | TOP | BOTTOM |
| AMPLITUDE | FILTER () | medium (1) | | " | " |
| TRAVEL TIME | FILTER () | medium (1) | | " | " |

RAL CCL PROCESSING

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|------------------|-----------|-------|-------|---------------|--------|
| CCL FLOOR | CCL FLOOR | 0.00 | | TOP | BOTTOM |

ANALOG RAL PROCESSING

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|---------------------------|----------------------------|---------|-------|---------------|--------|
| AMPLITUDE WINDOW (NEAR) | AMP WINDOW START (fgp1*) | 186 | us | TOP | BOTTOM |
| | AMP WINDOW START (fgp2*) | 186 | us | " | " |
| | AMP WINDOW START (fgp3*) | 186 | us | " | " |
| | AMP WINDOW START (fgp4*) | 186 | us | " | " |
| | AMP WINDOW START (fgp5*) | 186 | us | " | " |
| | AMP WINDOW START (fgp6*) | 186 | us | " | " |
| | AMP WINDOW START (fgp7*) | 186 | us | " | " |
| | AMP WINDOW START (fgp8*) | 186 | us | " | " |
| | AMP WINDOW START (fgpn*) | 186 | us | " | " |
| | AMP WINDOW LENGTH | 25 | us | " | " |
| TRAVEL TIME WINDOW (NEAR) | TT WINDOW START (ttn*) | 175 | us | " | " |
| | TT WINDOW LENGTH | 500 | us | " | " |
| | FIRST BRK THRESHOLD (ttn*) | 4 | mV | " | " |
| RAL CASING PARAMETERS | PPT NEAR | 200.391 | us | " | " |
| RAL TOOL DELAY | TOOL DELAY (str1*) | -69 | us | " | " |
| | TOOL DELAY (str2*) | -69 | us | " | " |
| | TOOL DELAY (str3*) | -69 | us | " | " |
| | TOOL DELAY (str4*) | -69 | us | " | " |
| | TOOL DELAY (str5*) | -69 | us | " | " |
| | TOOL DELAY (str6*) | -69 | us | " | " |
| | TOOL DELAY (str7*) | -69 | us | " | " |
| | TOOL DELAY (str8*) | -69 | us | " | " |
| | TOOL DELAY (strn*) | -69 | us | " | " |
| BASELINE NOISE (NEAR) | NOISE WINDOW START | 125 | us | " | " |
| | NOISE WINDOW LENGTH | 25 | us | " | " |

PERCENT BOND CEMENT MAP

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | INTERVAL (ft) | |
|-------------------------|----------------|-------|-------|---------------|--------|
| RAL FREE PIPE AMPLITUDE | FREE AMP REC 1 | 80 | mV | TOP | BOTTOM |
| | FREE AMP REC 2 | 80 | mV | " | " |
| | FREE AMP REC 3 | 80 | mV | " | " |
| | FREE AMP REC 4 | 80 | mV | " | " |
| | FREE AMP REC 5 | 80 | mV | " | " |
| | FREE AMP REC 6 | 80 | mV | " | " |

| | | | | | |
|-------------------------|---------------------|----|----|---|---|
| | FREE AMP REC 7 | 80 | mV | " | " |
| | FREE AMP REC 8 | 80 | mV | " | " |
| RAL FULL BOND AMPLITUDE | FULL BOND AMP REC 1 | 2 | mV | " | " |
| | FULL BOND AMP REC 2 | 2 | mV | " | " |
| | FULL BOND AMP REC 3 | 2 | mV | " | " |
| | FULL BOND AMP REC 4 | 2 | mV | " | " |
| | FULL BOND AMP REC 5 | 2 | mV | " | " |
| | FULL BOND AMP REC 6 | 2 | mV | " | " |
| | FULL BOND AMP REC 7 | 2 | mV | " | " |
| | FULL BOND AMP REC 8 | 2 | mV | " | " |

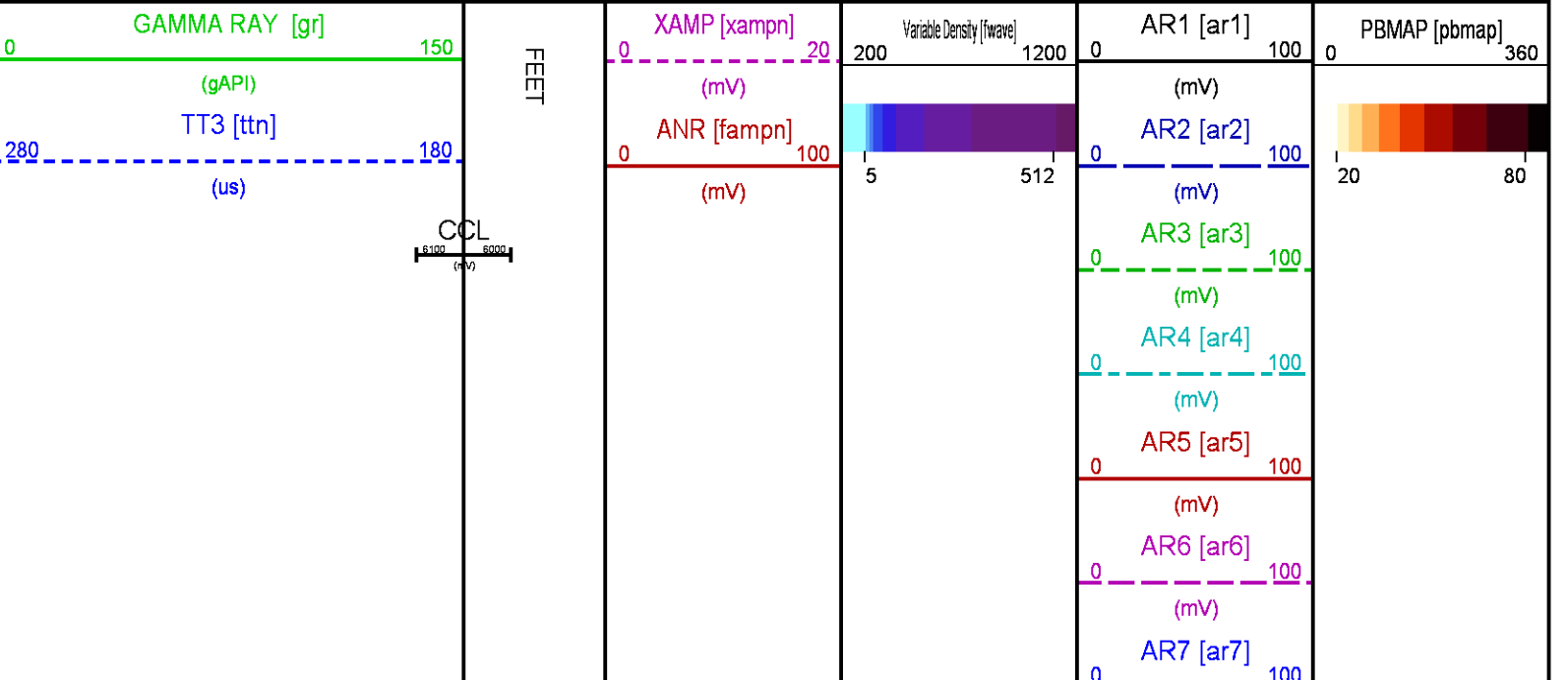
CURVE DESCRIPTION REPORT

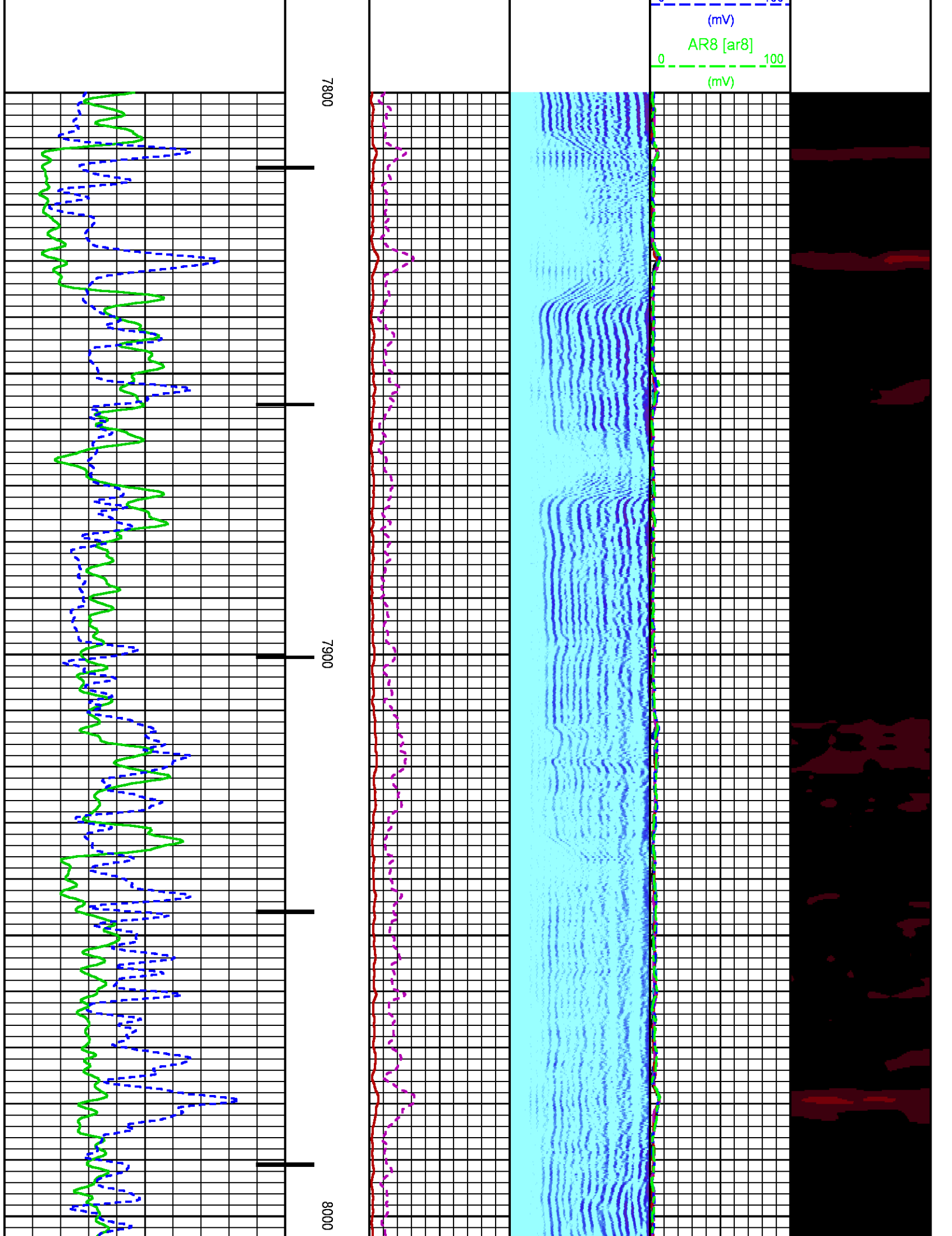
| CURVE NAME | CREATION DATE | CURVE DESCRIPTION |
|------------|---------------|---|
| F1:AR1 | N/A | FIXED GATE AMPLITUDE T-R1 |
| F1:AR2 | N/A | FIXED GATE AMPLITUDE T-R2 |
| F1:AR3 | N/A | FIXED GATE AMPLITUDE T-R3 |
| F1:AR4 | N/A | FIXED GATE AMPLITUDE T-R4 |
| F1:AR5 | N/A | FIXED GATE AMPLITUDE T-R5 |
| F1:AR6 | N/A | FIXED GATE AMPLITUDE T-R6 |
| F1:AR7 | N/A | FIXED GATE AMPLITUDE T-R7 |
| F1:AR8 | N/A | FIXED GATE AMPLITUDE T-R8 |
| F1:CCL | N/A | CASING COLLAR LOCATOR |
| F1:FAMPN | N/A | FIXED GATE AMPLITUDE NEAR RECEIVER |
| F1:FWAVE | N/A | FAR WAVE FORM |
| F1:GR | N/A | GAMMA RAY |
| F1:PBMAP | N/A | PERCENT BOND CEMENT MAP |
| F1:TTN | N/A | TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER |
| F1:XAMPN | N/A | FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE |

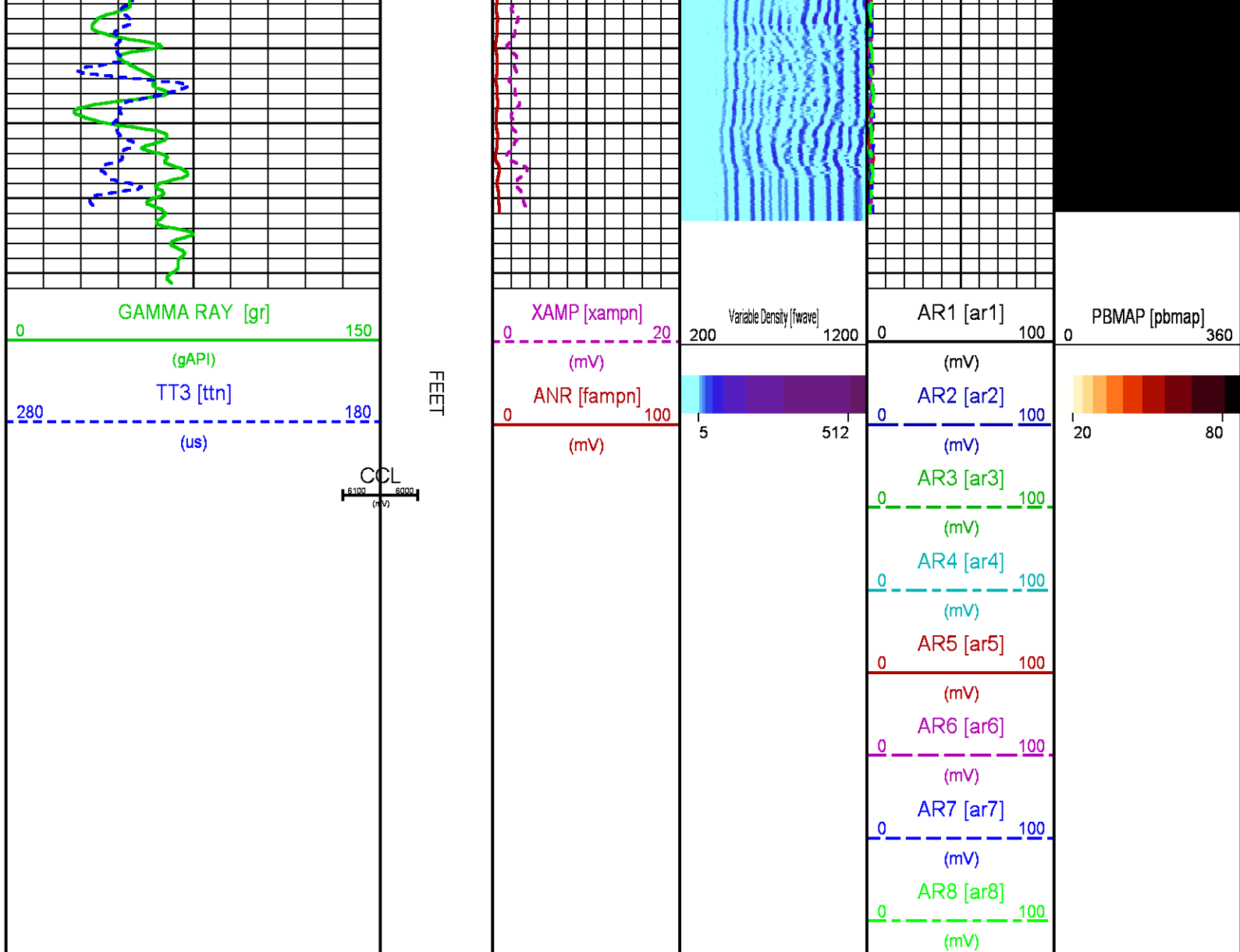
CURVE MEASURE POINT OFFSET

| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| AR1 | -11.25 | AR5 | -11.25 | CCL | -5.75 | XAMPN | -11.25 |
| AR2 | -11.25 | AR6 | -11.25 | FAMPN | -11.25 | | |
| AR3 | -11.25 | AR7 | -11.25 | GR | -1.75 | | |
| AR4 | -11.25 | AR8 | -11.25 | TTN | -11.25 | | |

| | |
|----------------------|---|
| Presentation | : SysA:/dat1a/LARAMIE_BRUTON_30-14W/30-14W_RAL_REPEAT.fvpdf [5"/100' Scale] |
| Plot Interval | : 7800 - 8043 Feet |
| Data File 1 | : F1 : SysA:/dat1a/LARAMIE_BRUTON_30-14W/30-14W_RAL_REPEAT.xtf |
| Created On | : N/A |
| Company | : LARAMIE ENERGY LLC |
| Well | : BRUTON 30-14W |
| Field | : VEGA |
| File Interval | : 7256.25 - 8044.25 Feet |
| OCT | : p012g |







CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/LARAMIE_BRUTON_30-14W/p012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Fri Feb 2 12:04:51 2018

UNIT #: 5753XD 111111

| | NEAR (mV) | RADIAL (mV) | FAR (mV) |
|---------|--------------|----------------|-------------|
| TARGETS | 100.00 | 100.00 | 150.00 |

| | NEAR | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | FAR | CAL |
|----------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| ZERO (mV) | -0.01 | -0.22 | 0.00 | -0.02 | -0.01 | -0.07 | -0.02 | -0.03 | -0.08 | -0.74 | -0.10 |
| AMP FLUID (mV) | 53 | 53 | 53 | 53 | 52 | 52 | 53 | 53 | 53 | 71 | 52 |
| TT (us) | 218 | 217 | 217 | 218 | 218 | 218 | 217 | 216 | 217 | 325 | 217 |
| M FACTOR | 1.89 | 1.87 | 1.89 | 1.90 | 1.91 | 1.91 | 1.90 | 1.88 | 1.87 | 2.08 | 1.91 |

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10124106 DATE/TIME PERFORMED: Fri Feb 2 14:16:44 2018 DAYS SINCE CAL: 0

UNIT #: 5753XD 111111 CABLE #: 4291SM SMALL1

| | NEAR (mV) | R1 (mV) | R2 (mV) | R3 (mV) | R4 (mV) | R5 (mV) | R6 (mV) | R7 (mV) | R8 (mV) | FAR (mV) | CAL (mV) |
|---------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| ZERO | 0.19 | 0.06 | 0.08 | -0.06 | 0.02 | 0.12 | -0.15 | 0.22 | -0.03 | -0.31 | -0.16 |
| AMP AIR | 1.00 | 0.56 | 1.01 | 1.05 | 0.90 | 1.03 | 1.10 | 1.06 | 1.03 | 1.45 | 99.37 |

| SHOP M FACTOR | SHOP A FACTOR | WIRELINE FACTOR |
|------------------|------------------|--------------------|
| 1.91 | 0.00 | 1.00 |

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 11856714 DATE/TIME PERFORMED: Mon Dec 18 10:17:53 2017

UNIT #: CHANGE ME CALB JIG #: 4702NK DA-527

| | BACKGROUND (cts) | CALBRTR ON (cts) | CR DIFF (cts/s) | MULT | BACKGROUND (gAPI) | CALBRTR ON (gAPI) | CALBRTR (gAPI) |
|----|---------------------|---------------------|--------------------|-------|----------------------|----------------------|-------------------|
| GR | 75.73 | 289.69 | 214.0 | 0.701 | 53.10 | 203.10 | 150 |

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 11856714 DATE/TIME PERFORMED: Mon Dec 18 10:19:57 2017

UNIT #: CHANGE ME VERI JIG #: 4702NK DA-527

| | BACKGROUND (cts) | CALBRTR ON (cts) | MULT | BACKGROUND (gAPI) | CALBRTR ON (gAPI) | DIFF. (gAPI) |
|----|---------------------|---------------------|-------|----------------------|----------------------|-----------------|
| GR | 72.98 | 289.48 | 0.701 | 51.16 | 202.95 | 151.78 |
| | | | | | | 140.00 160.00 |

INSTRUMENT CONFIGURATION

Source File: /dat1a/LARAMIE_BRUTON_30-14W/RAL-tdg

A3 CABLEHEAD
Diameter : 1.37"



18.85'

RADIAL BOND TOOL

Diameter : 2.75"
Length : 11.17'
Weight : 126 lbs
Series : 1426XA
Mnemonic : RAL
Measure Point: 4.21': NEAR RCVR
Measure Point: 3.25': FAR RCVR

NEAR RCVR 11.17'

FAR RCVR 10.21'

CCL 5.79'

GR 1.67'

TEMP 0.17'

RAL GR/TEMP/CCL/CHV DETECTOR

Diameter : 2.75"
Length : 6.96'
Weight : 85 lbs
Series : 1355XA
Mnemonic : RAL
Measure Point: 5.79': CCL
Measure Point: 1.67': GR
Measure Point: 0.17': TEMP

TOTAL LENGTH: 18.85'
TOTAL WEIGHT: 227 lbs
MAX DIAMETER: 0'4.00"

**BAKER
HUGHES**
a GE company



COMPANY LARAMIE ENERGY LLC
WELL BRUTON 30-14W
FIELD VEGA
COUNTY MESA **STATE** COLORADO

FILE NO:
CH132062
API NO:
05077104780000

LOCATION:
SHL: 2611' FNL & 1883' FEL
BHL: 1908' FSL & 1310' FWL

ELEVATIONS:

KB 7673 FT
DF
GL 7643 FT

SEC 30 **TWP** 9S **RGE** 93W

DATE 02-Feb-2018

ECLIPS