



Providing Superior Value

RADIAL CEMENT BOND GAMMA RAY CASING COLLAR LOG

| | | | |
|------------------------|------------------------------------|--|--|
| Company | KERR-McGEE OIL & GAS ONSHORE, L.P. | | |
| Well | SARCHET 37C-32HZ | | |
| Field | WATTENBERG | | |
| County | WELD | | |
| State | COLORADO | | |
| Location: | API # : 05-123-35594 | | Other Services GAUGE RUN PLUG SET |
| Permanent Datum | GROUND LEVEL Elevation 4924 | | |
| Log Measured From | KELLY BUSHING (17FT) | | |
| Drilling Measured From | KELLY BUSHING | | Elevation K.B. 4941 D.F. 4940 G.L. 4924 |

| | |
|------------------------|------------------|
| Date | 28-SEP-2012 |
| Run Number | THREE |
| Depth Driller | 11935 |
| Depth Logger | 6975 |
| Bottom Logged Interval | 6965 |
| Top Log Interval | 25 |
| Open Hole Size | 9.625" |
| Type Fluid | WATER |
| Density / Viscosity | 8.34 LB/GAL |
| Max. Recorded Temp. | 243 DEGF |
| Estimated Cement Top | 650 |
| Time Well Ready | N/A |
| Time Logger on Bottom | 09:00 |
| Equipment Number | HD 0134 |
| Location | FORT LUPTON, CO. |
| Recorded By | SAM HOPPER |
| Witnessed By | VAN FRANKE |

| Borehole Record | | | | Tubing Record | | | |
|-----------------|-----|------|----|---------------|--------|------|----|
| Run Number | Bit | From | To | Size | Weight | From | To |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| | | | | |
|-------------------|------|--------|------|--------|
| Casing Record | Size | Wgt/Ft | Top | Bottom |
| Surface String | | | | |
| Prot. String | | | | |
| Production String | 7" | 26# | 0 | 6908 |
| Liner | 4.5" | 11.6# | 6908 | TD |

<<< Fold Here >>>

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

DEPTH REF TO CASING TALLY REPORTS.
CORRELATED TO LINER TOP AT 6908'.
ADJUSTED -6.6' (UPHOLE) TO TIE INTO TOP OF LINER.
RUN CBL FROM JUST BELOW TOP OF LINER TO SURFACE.
CBL RAN UNDER 2800 PSI SURFACE INDUCED PRESSURE.
ESTIMATED CEMENT TOP RECORDED AT 650'.

THANK YOU FOR CHOOSING PURE ENERGY

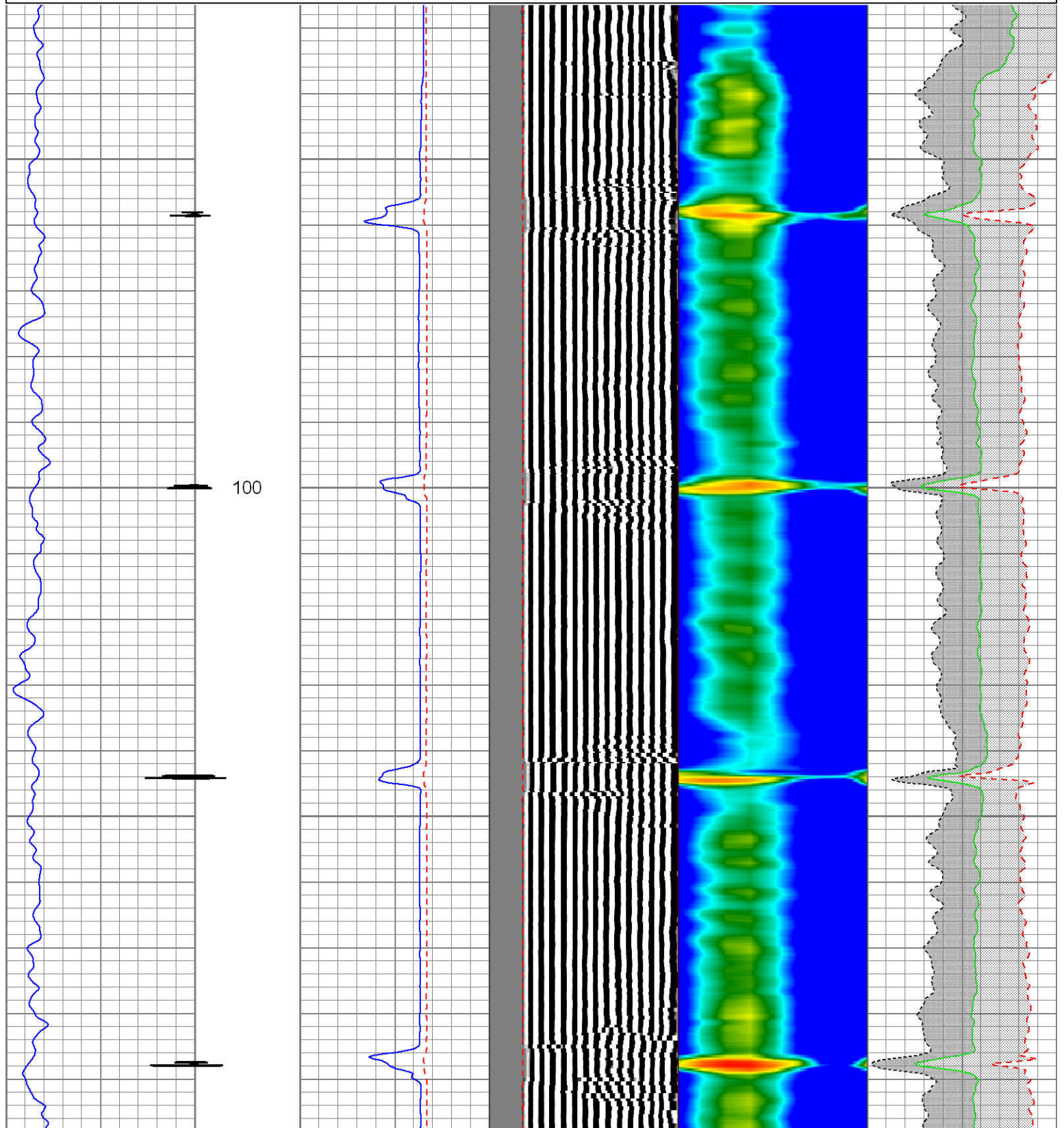


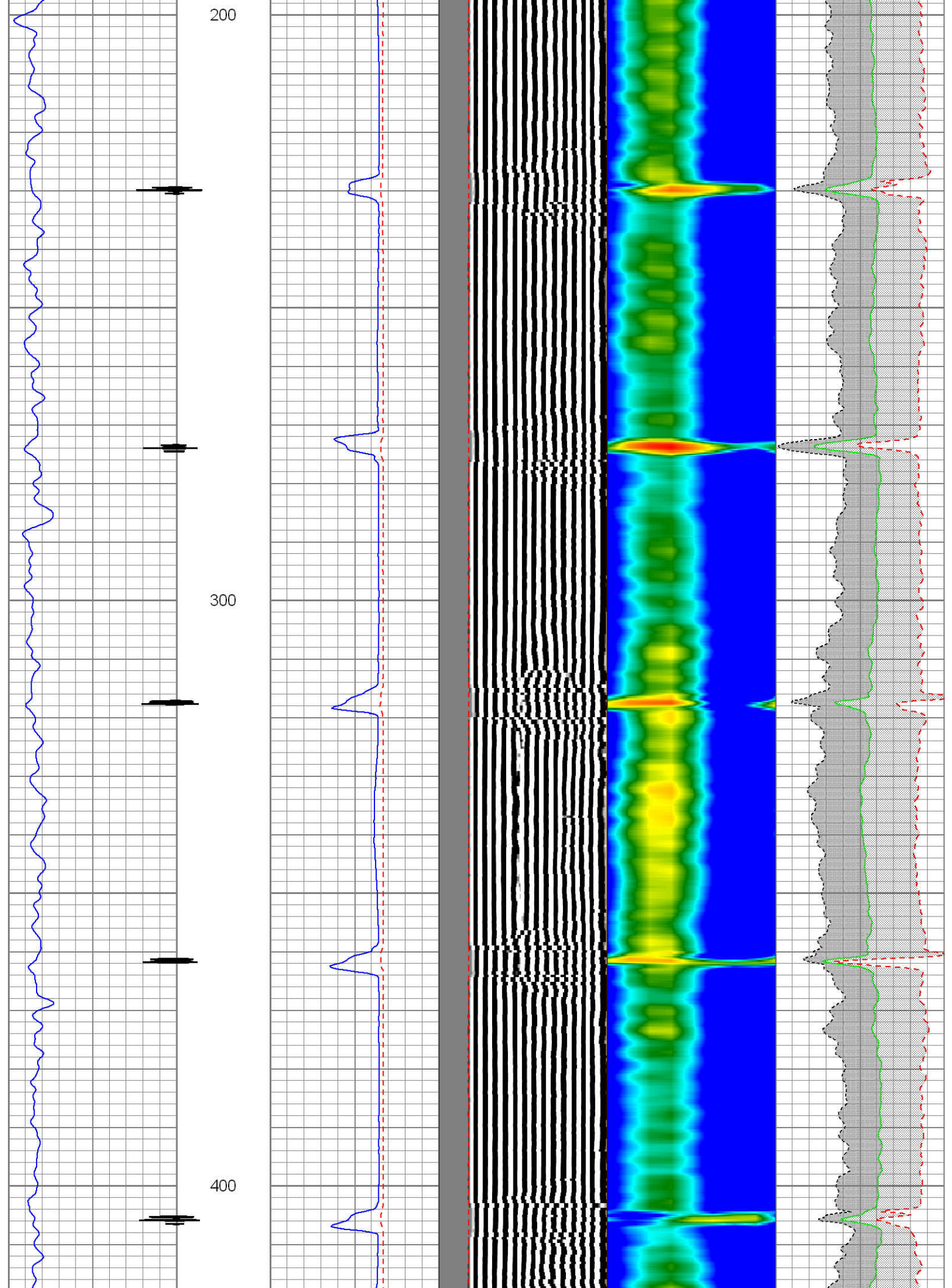
CBL MAIN PASS

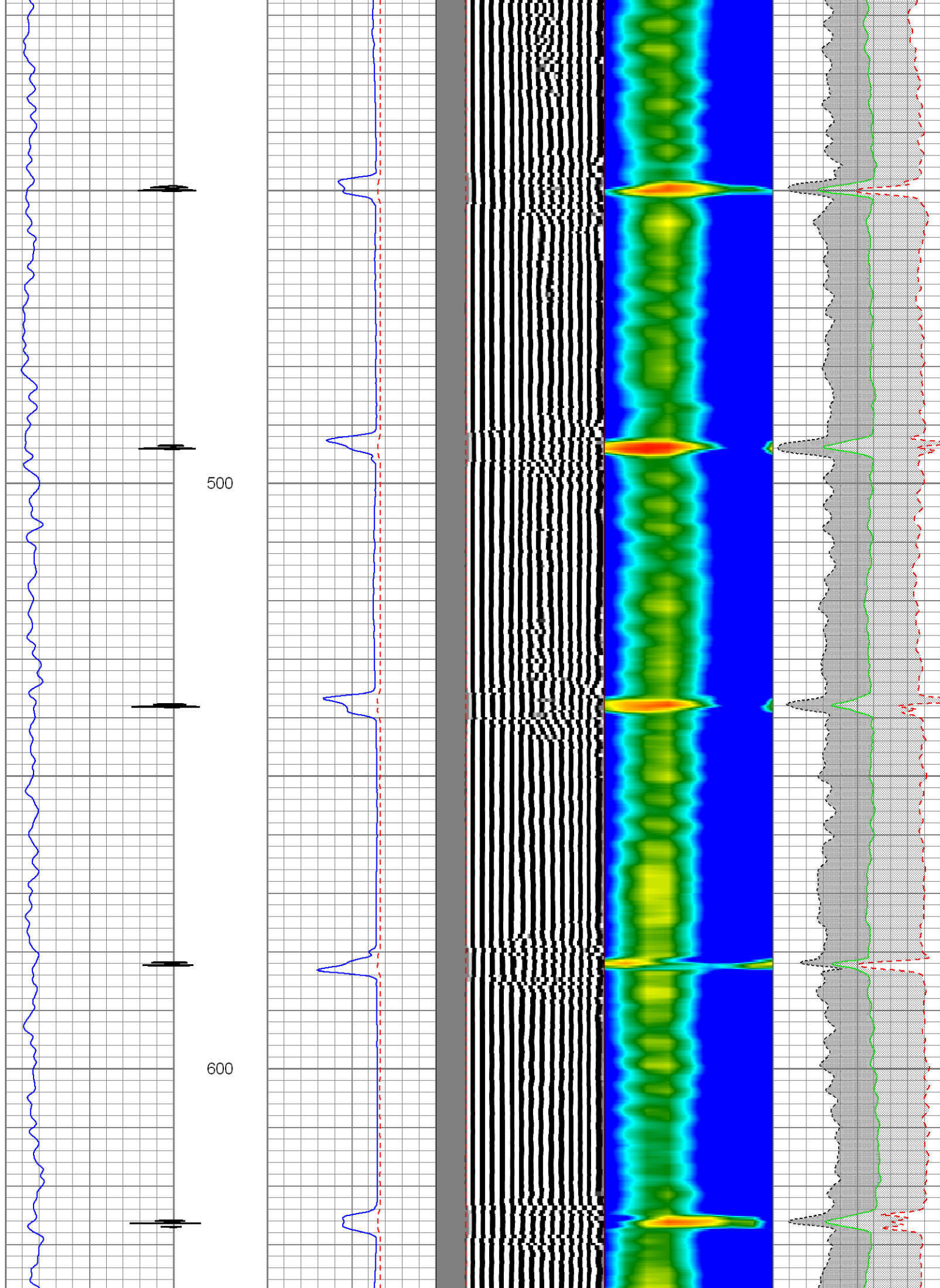
Logged Under 2800 PSI Surface Induced Pressure

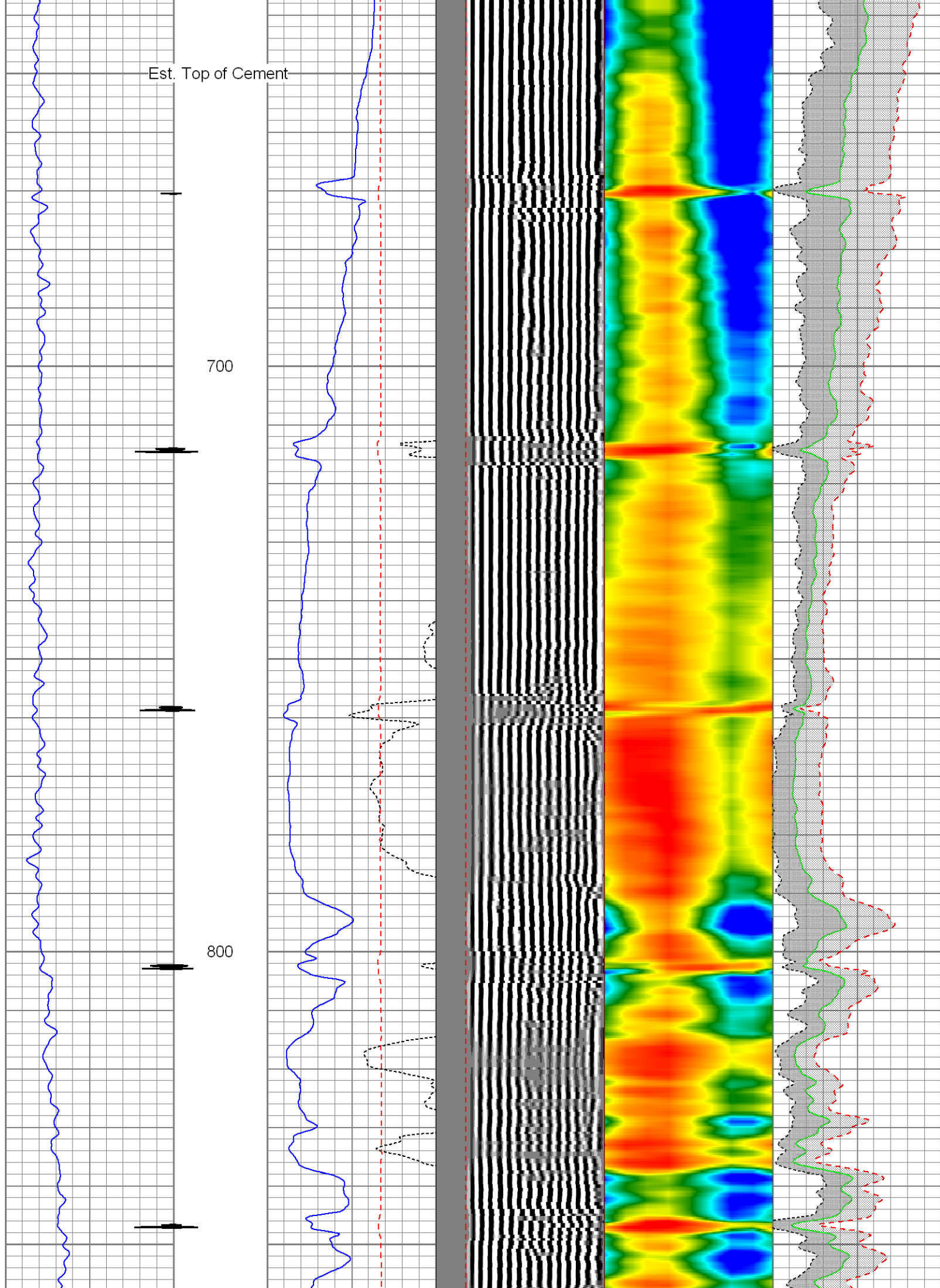
Database File: kmg_sarchet_37c-32hz.db
Dataset Pathname: 28sep12/well/cbl/pass10
Presentation Format: rib
Dataset Creation: Fri Sep 28 09:07:55 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

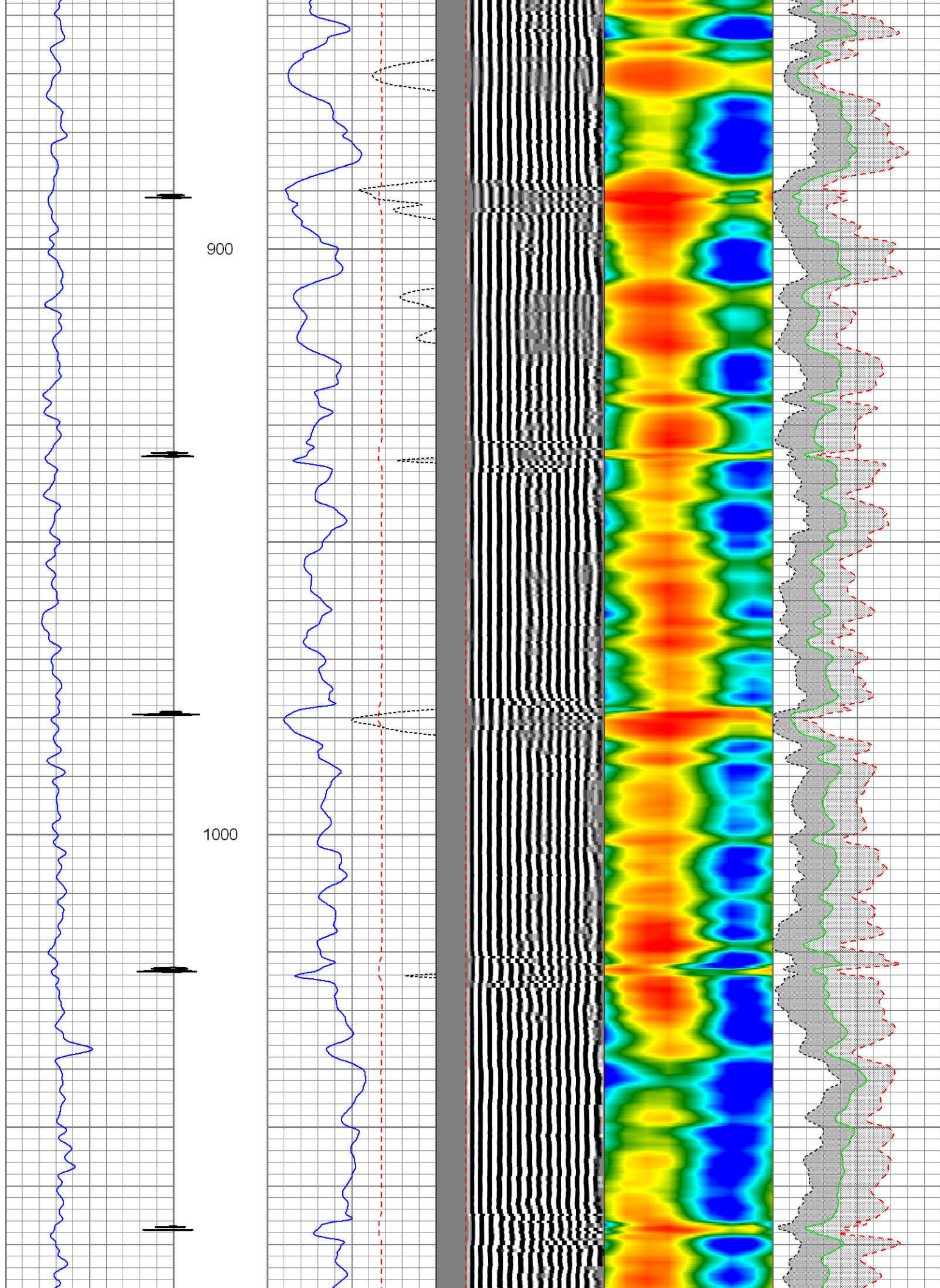
| | | | | | |
|---|----------------|------------------|-------------------------|------------|-------------------|
| 0 | Gamma Ray 150 | 3' Amplitude | 5' Variable Density Log | Sector Map | Average Amplitude |
| | Collar Locator | 0 (mV) 100 | 200 1200 | | 0 100 |
| | | 3' Amplitude x 5 | | | Minimum Amplitude |
| | | 0 (mV) 20 | | | 0 100 |
| | | 3' Travel Time | | | Maximum Amplitude |
| | | 650 (usec) 150 | | | 0 100 |

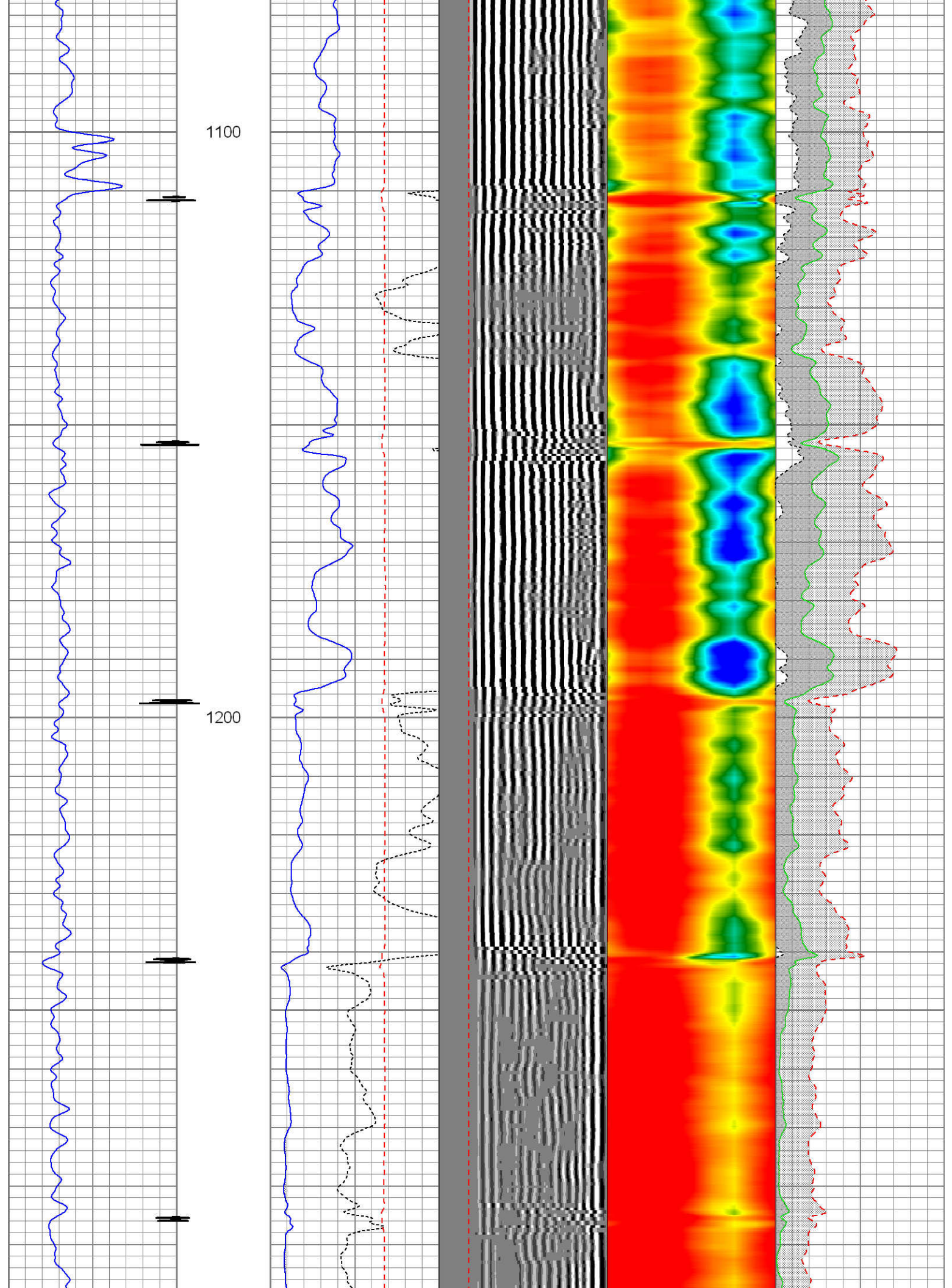


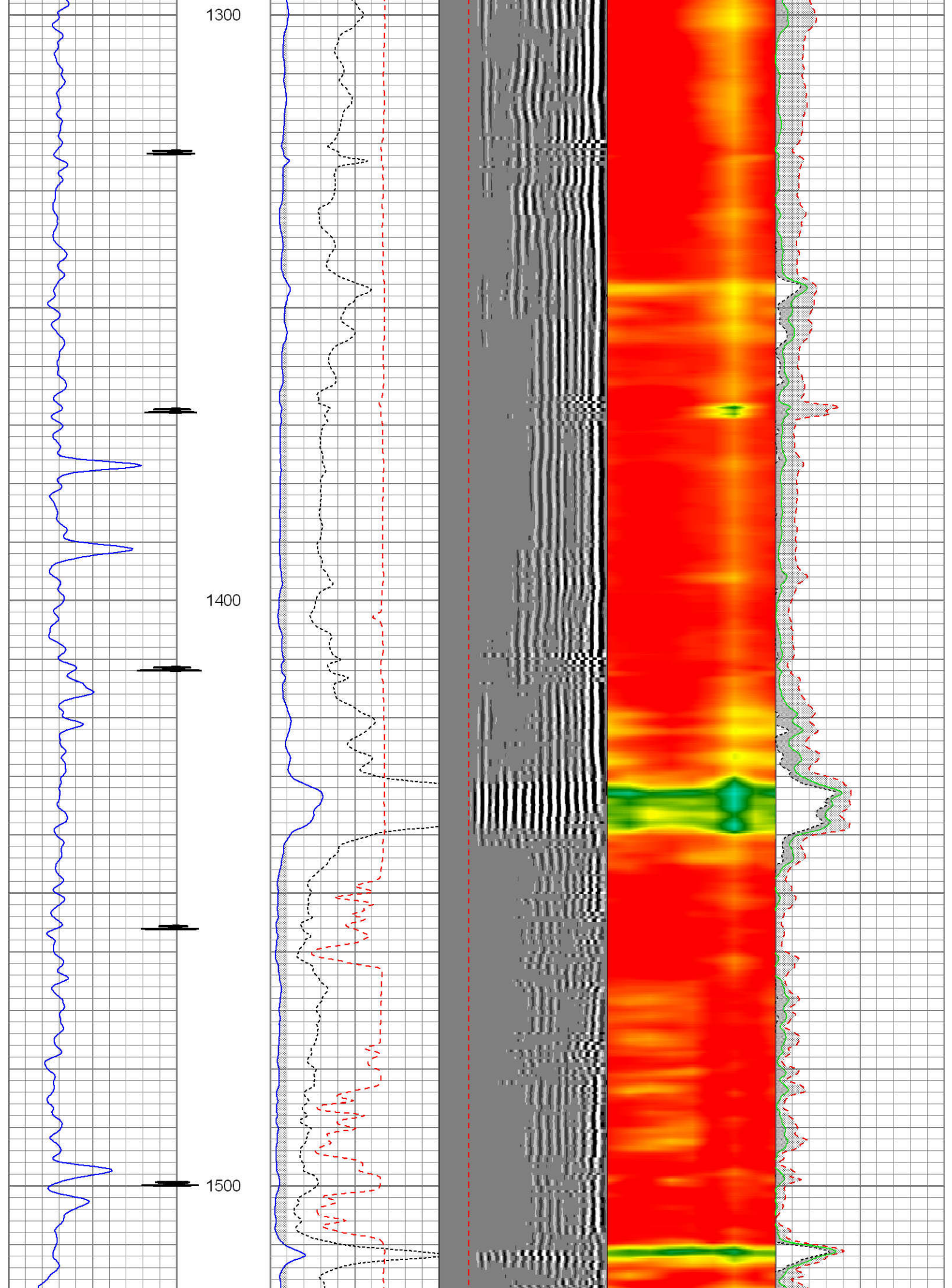


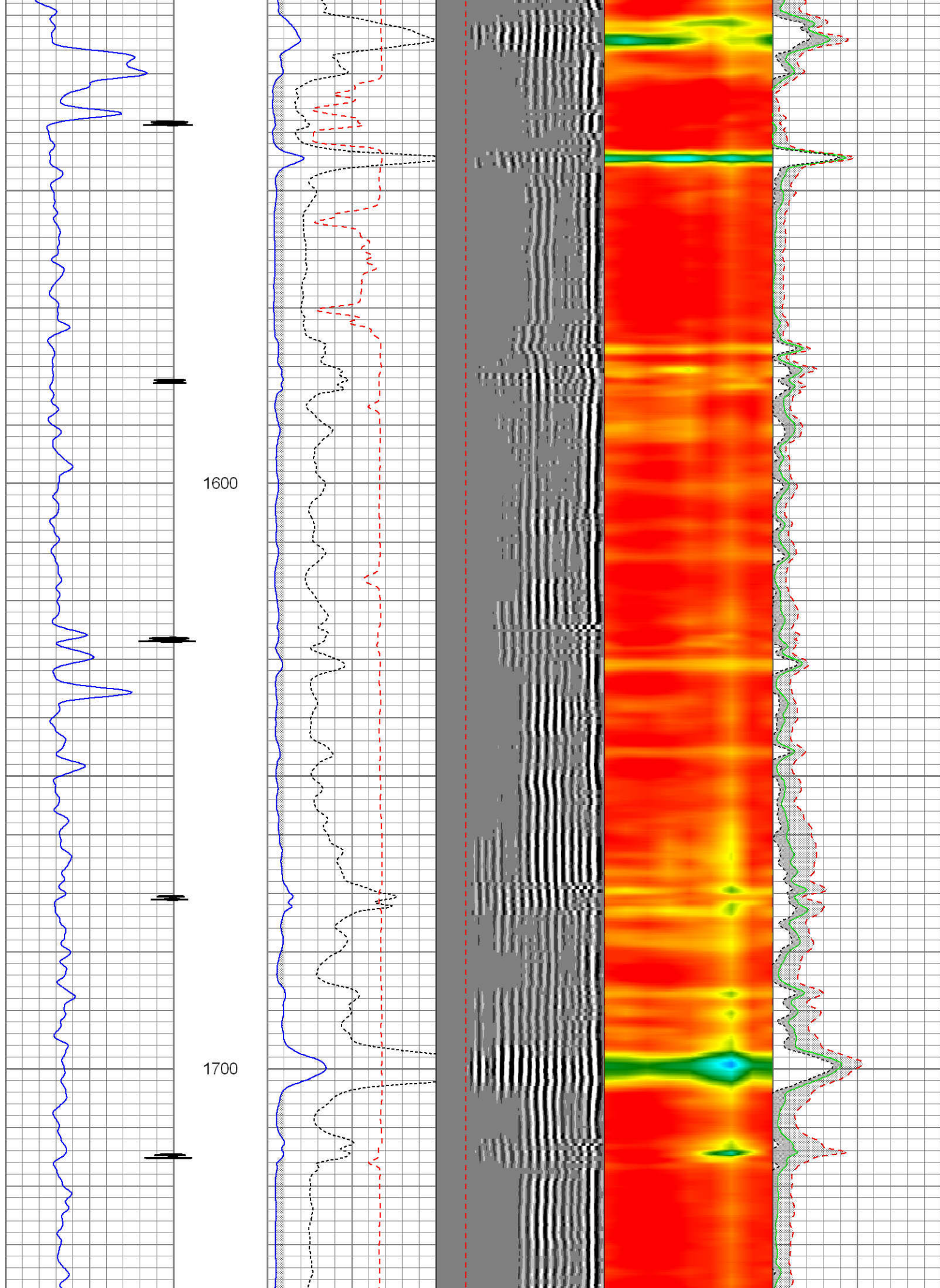


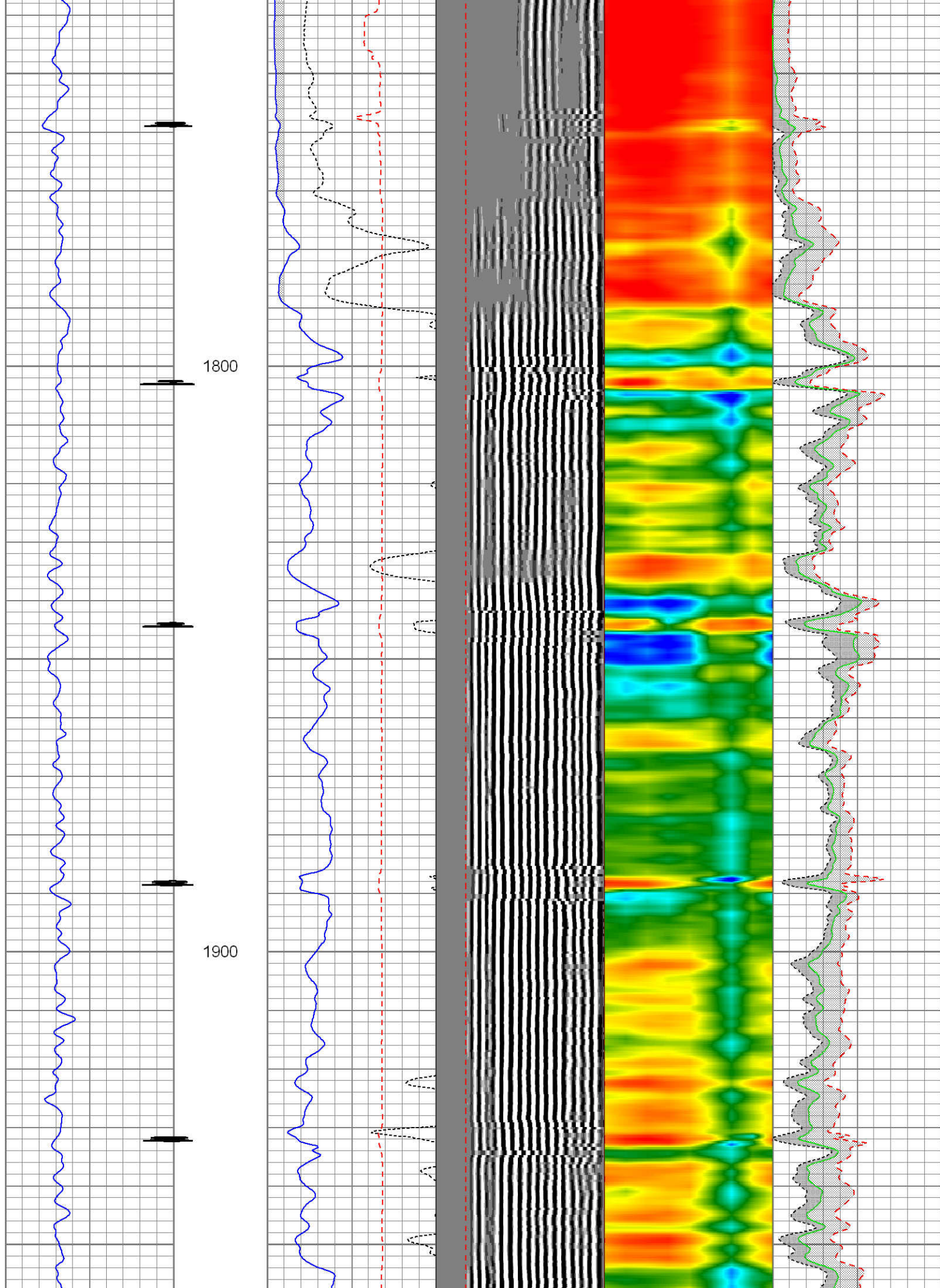


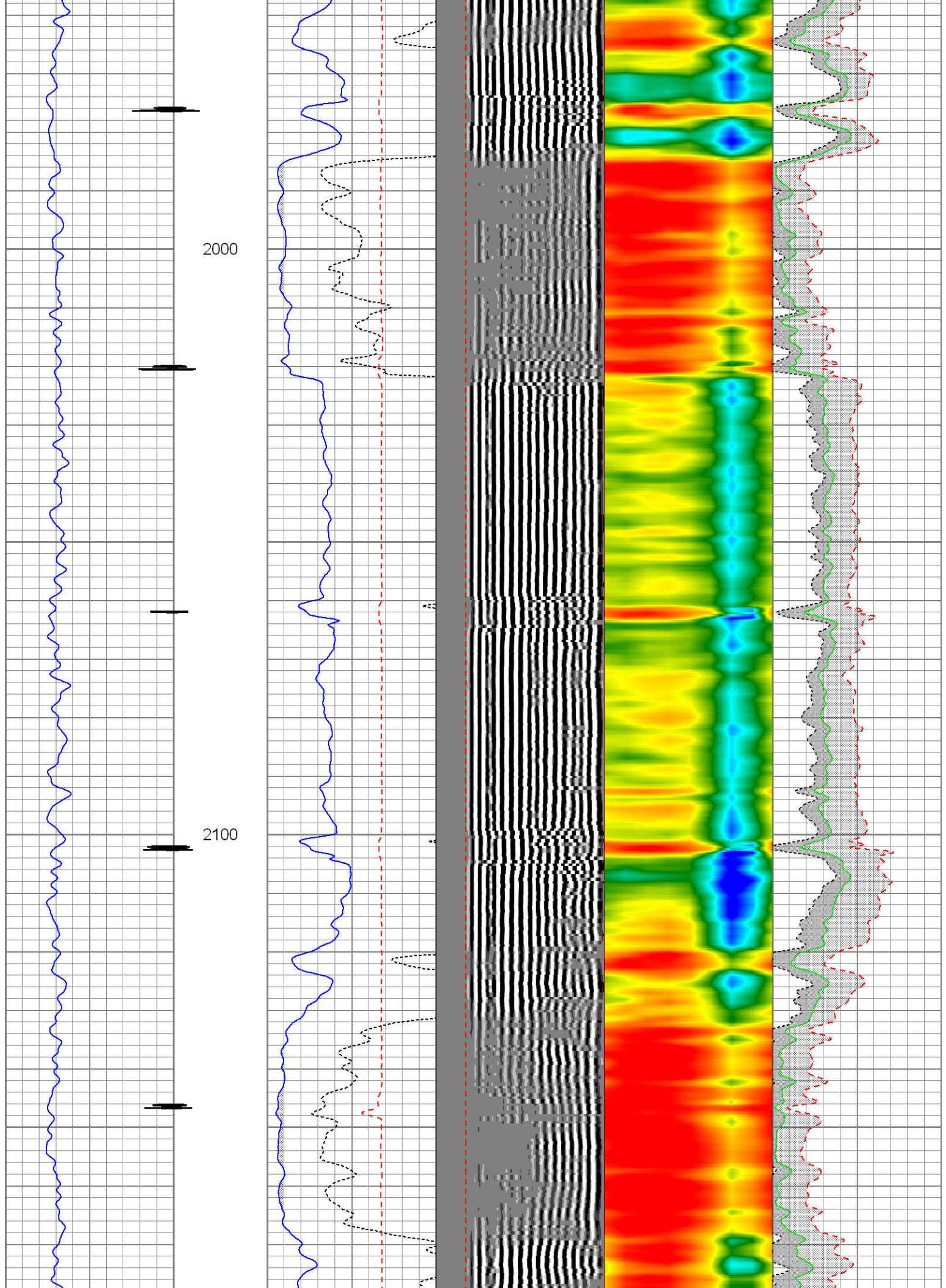


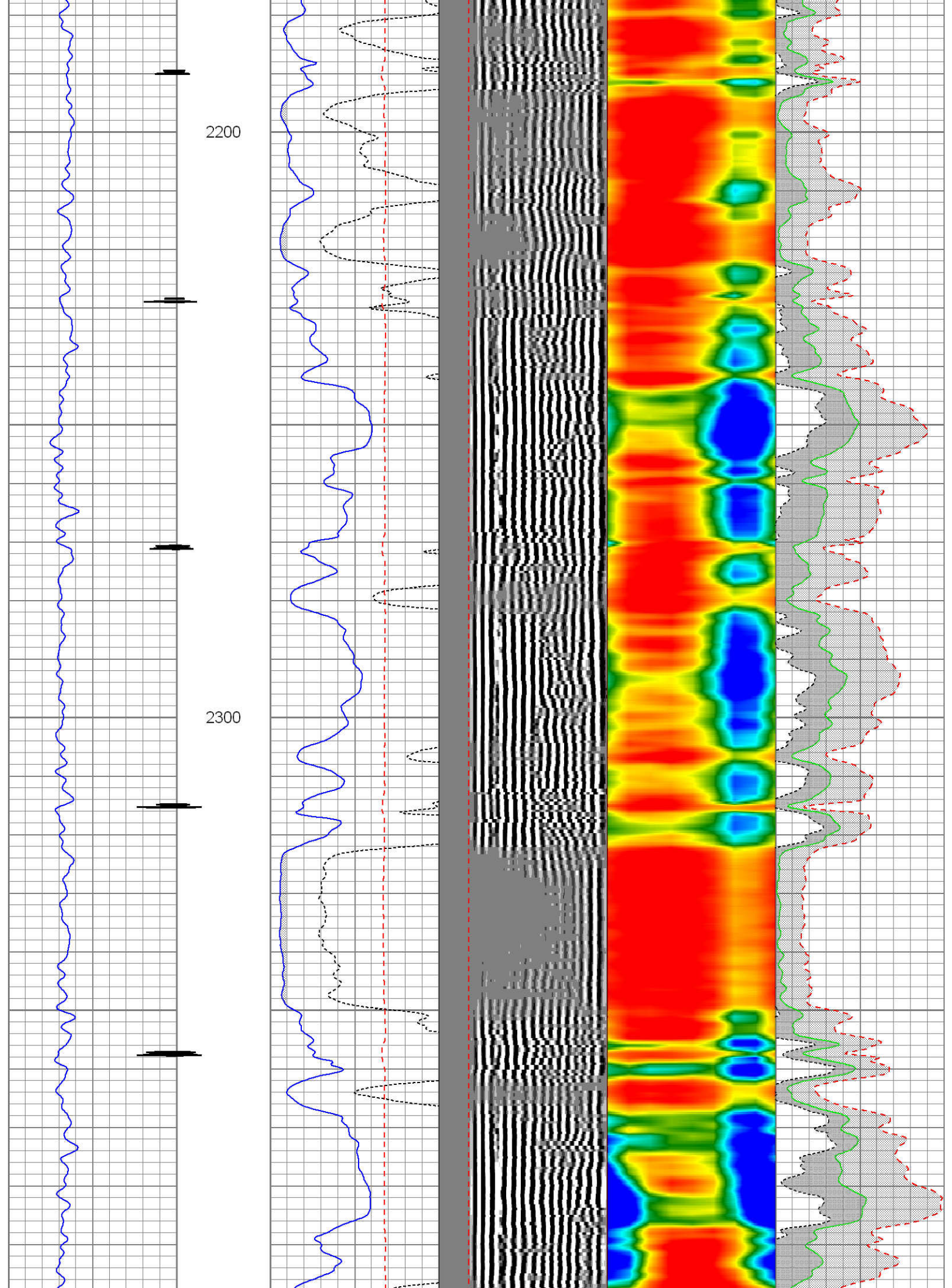


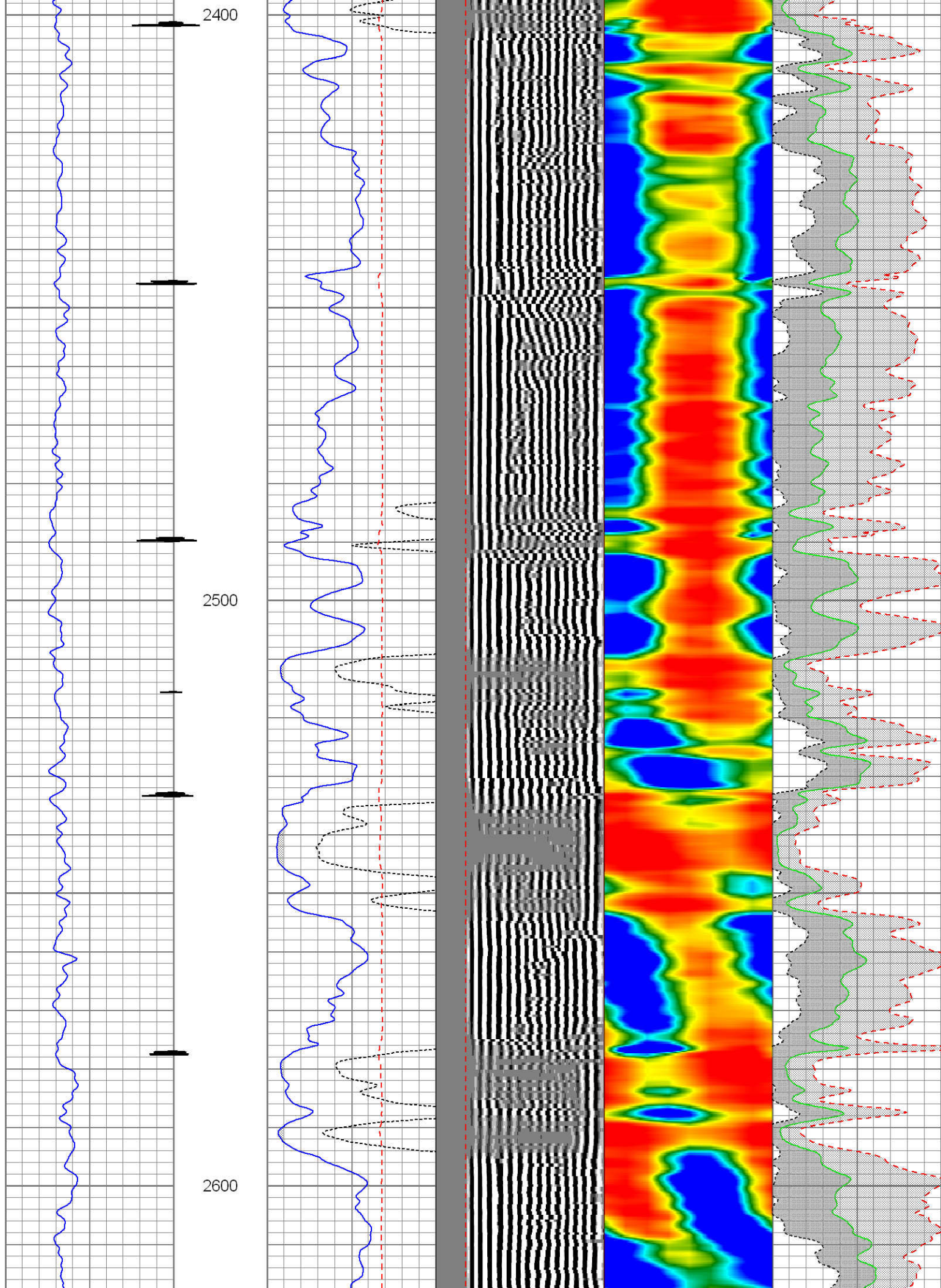


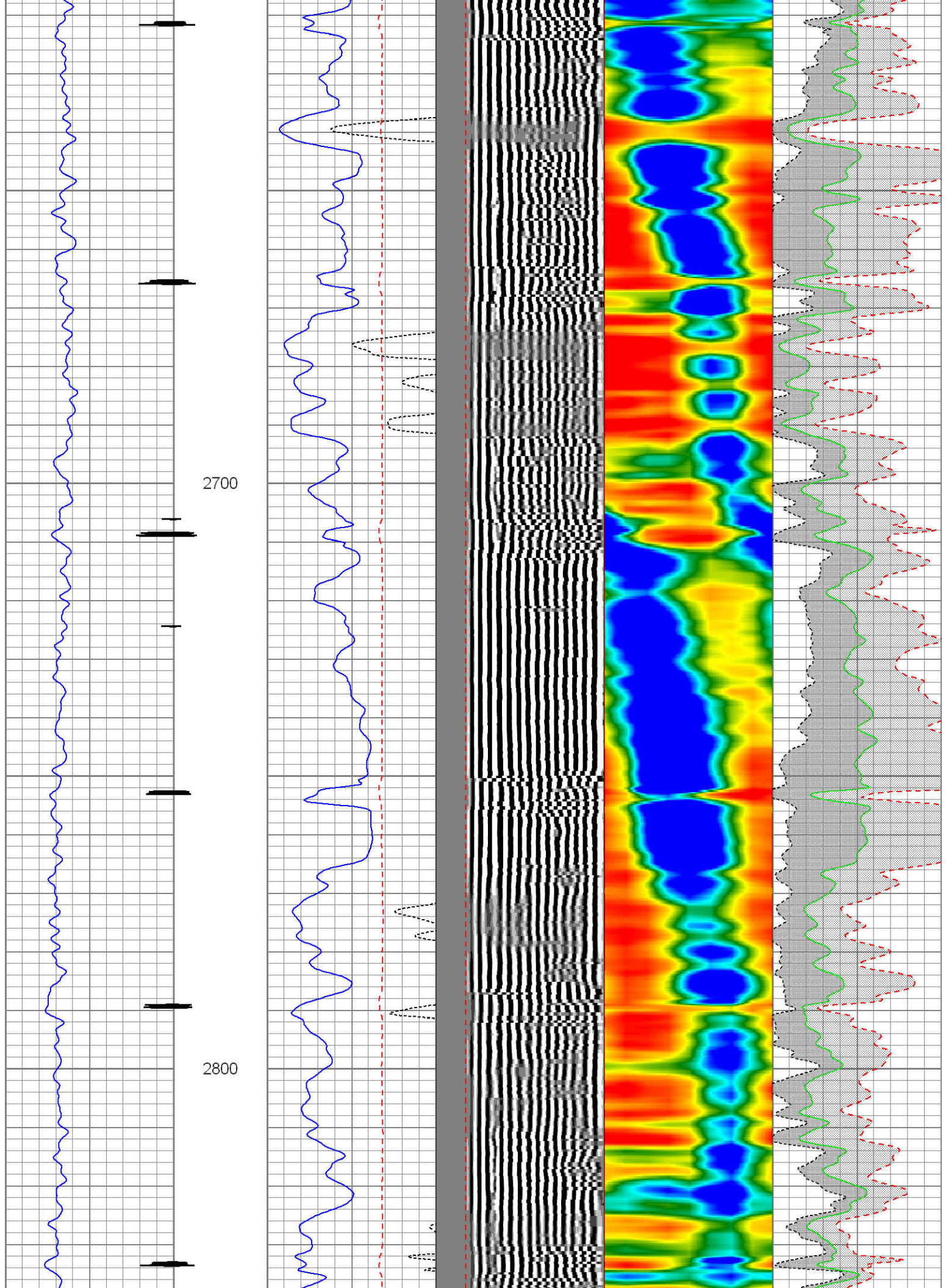


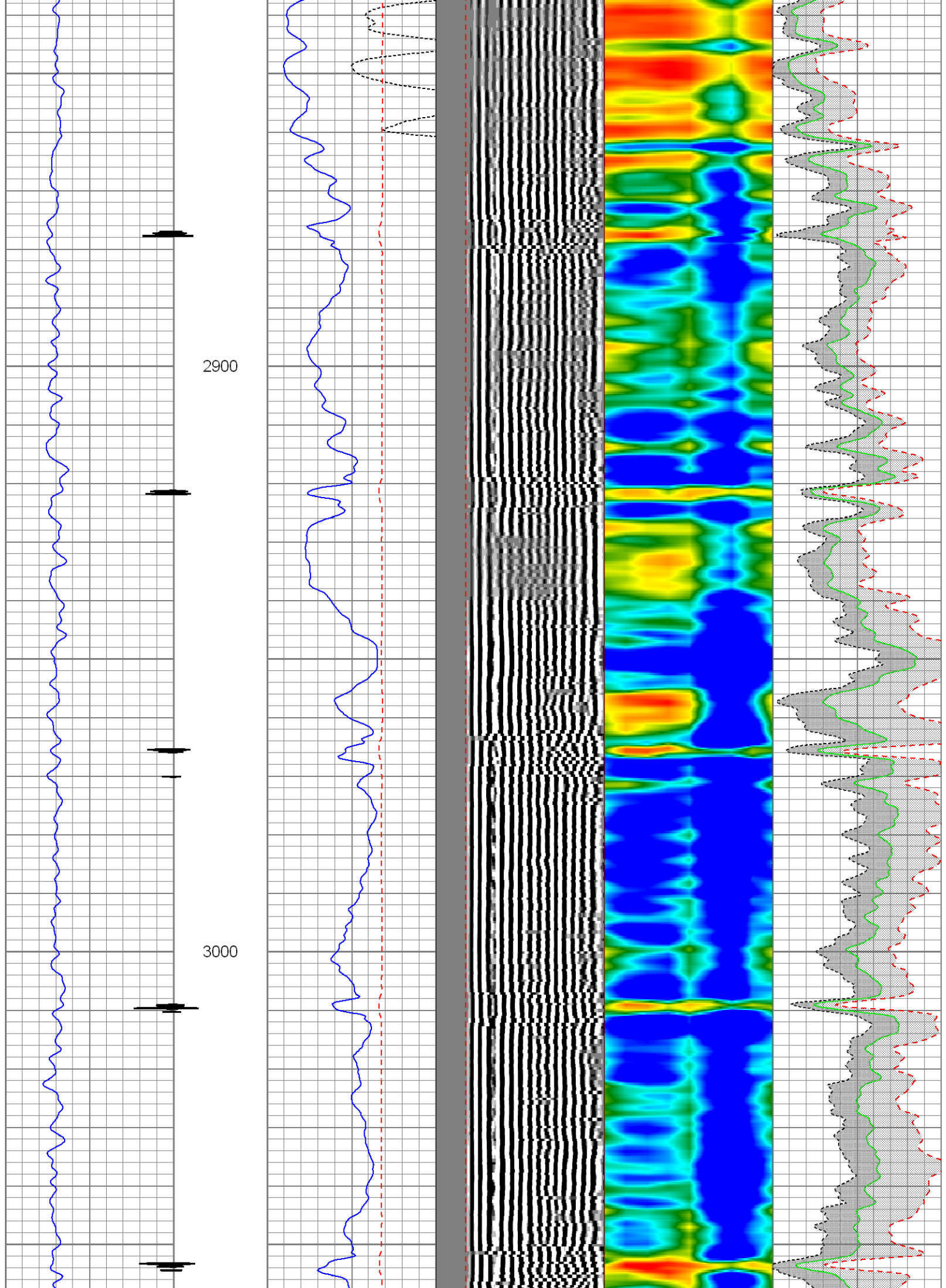


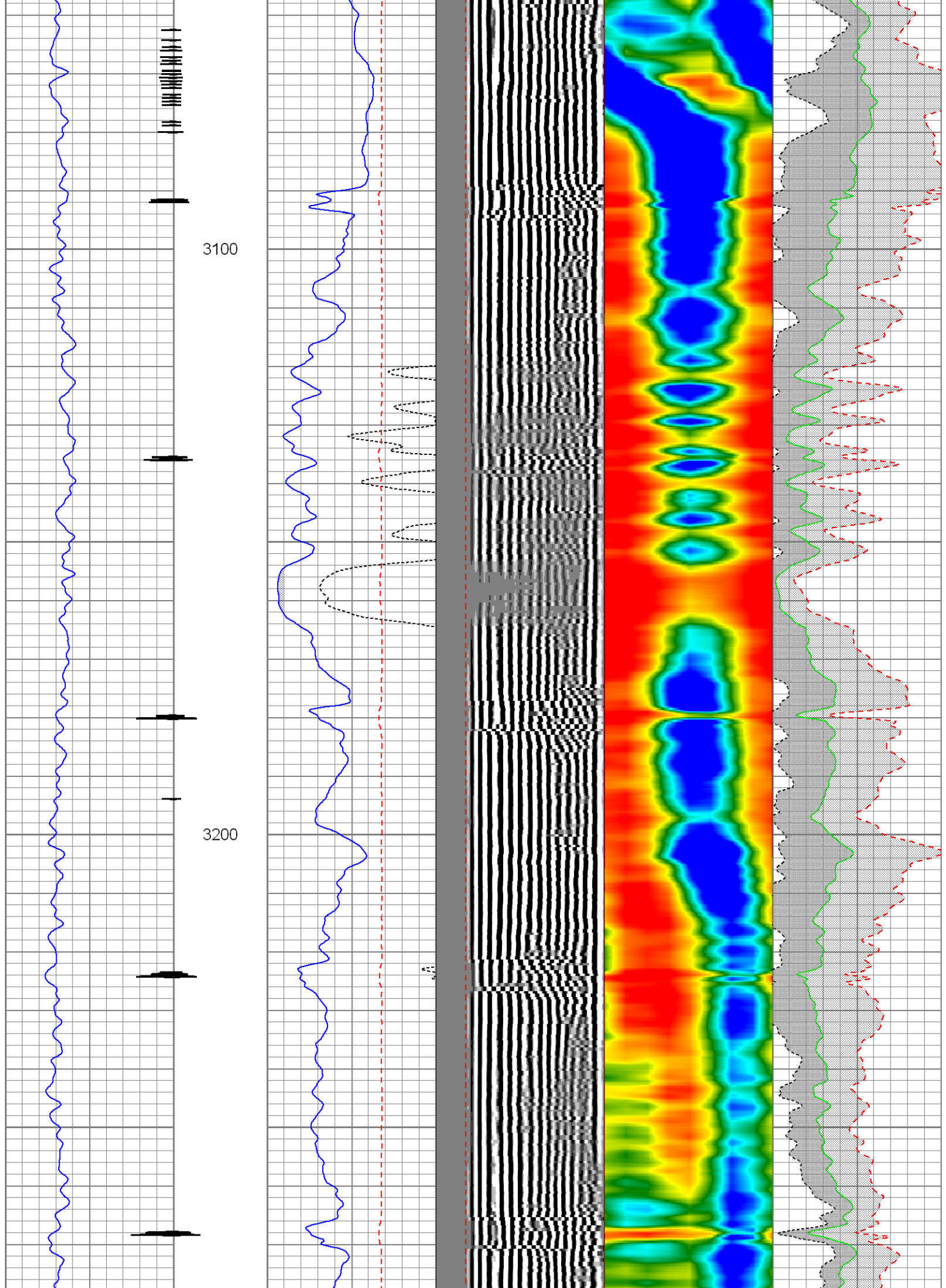










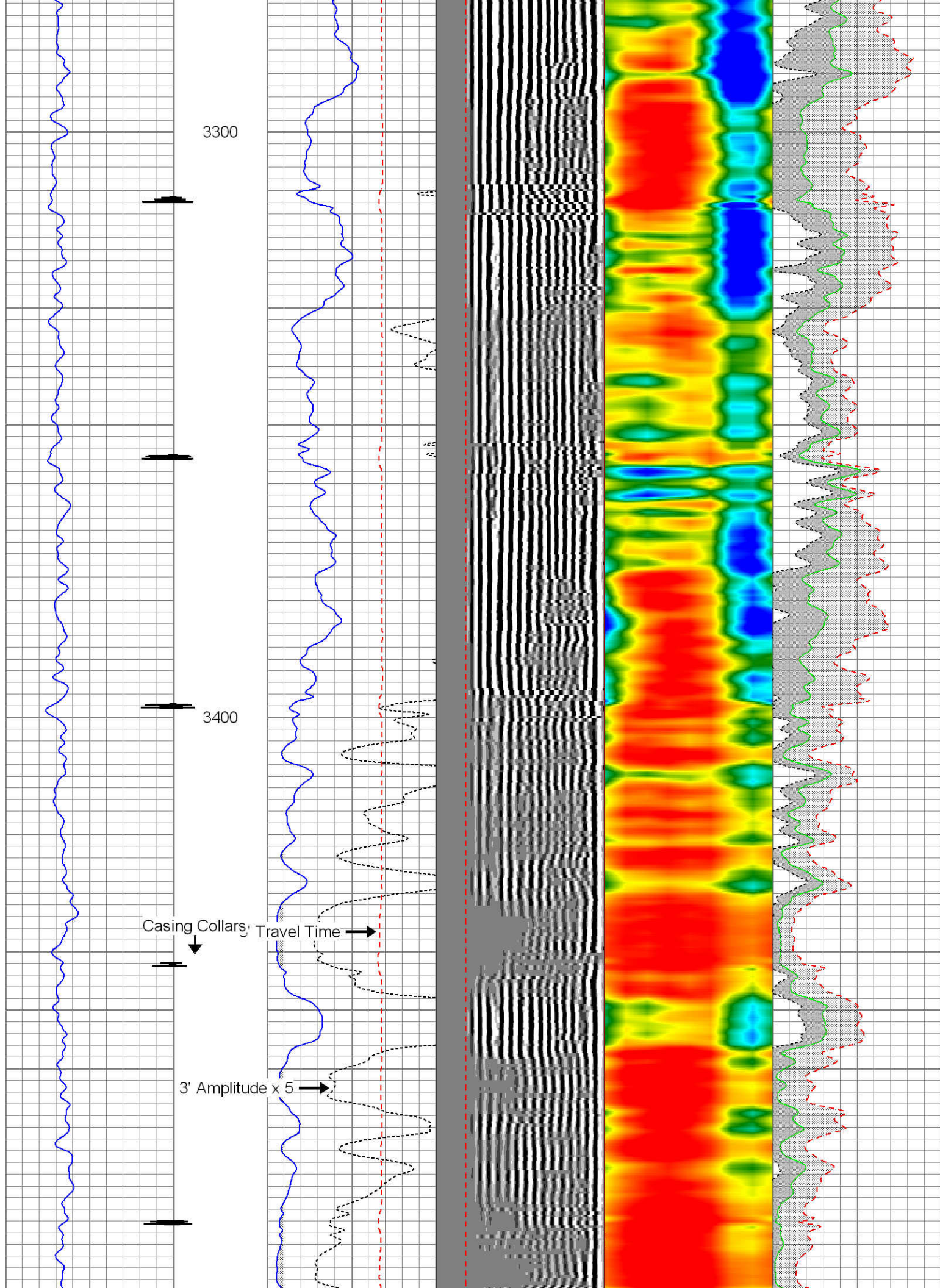


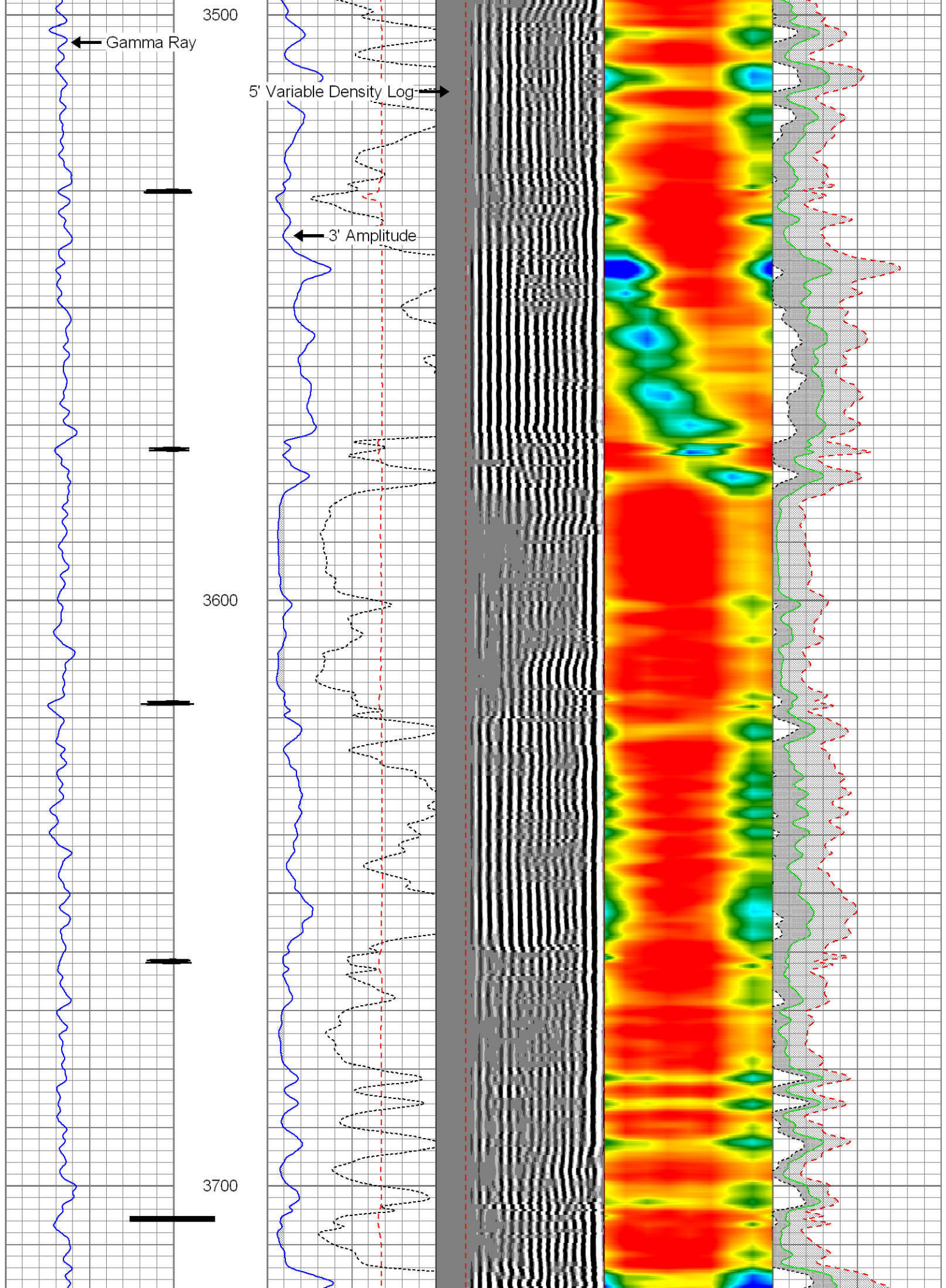
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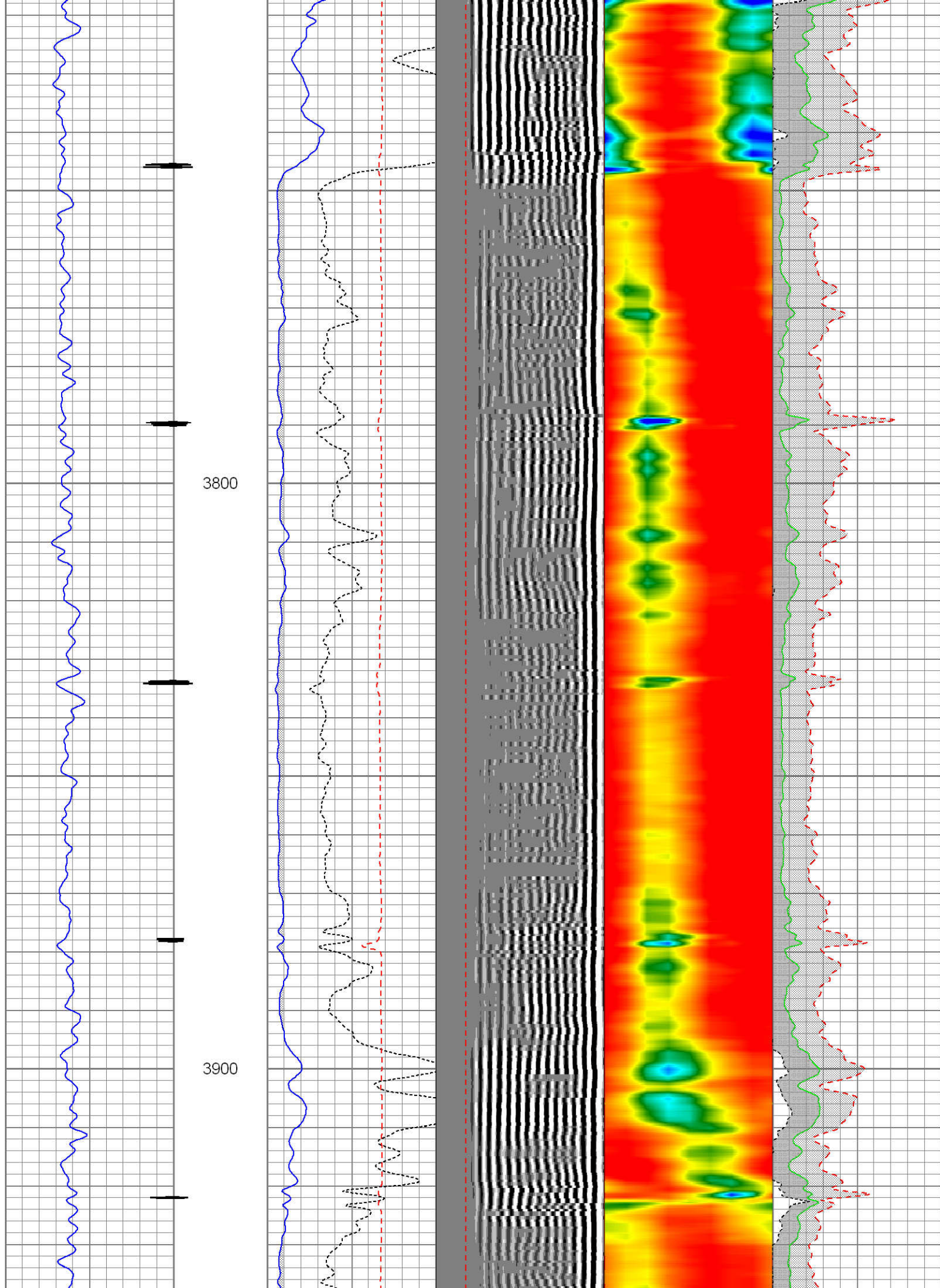
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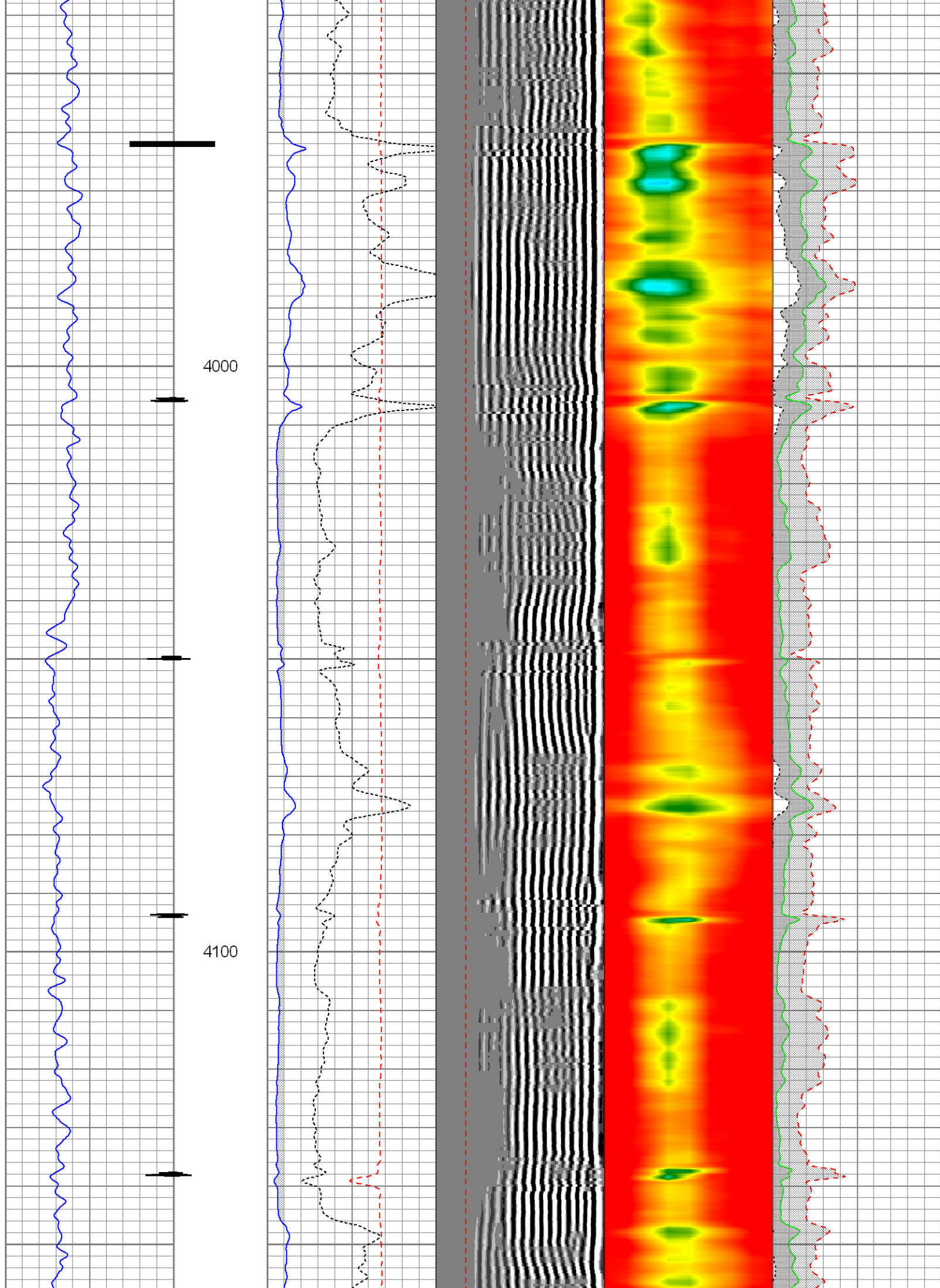
Casing Collars, Travel Time →

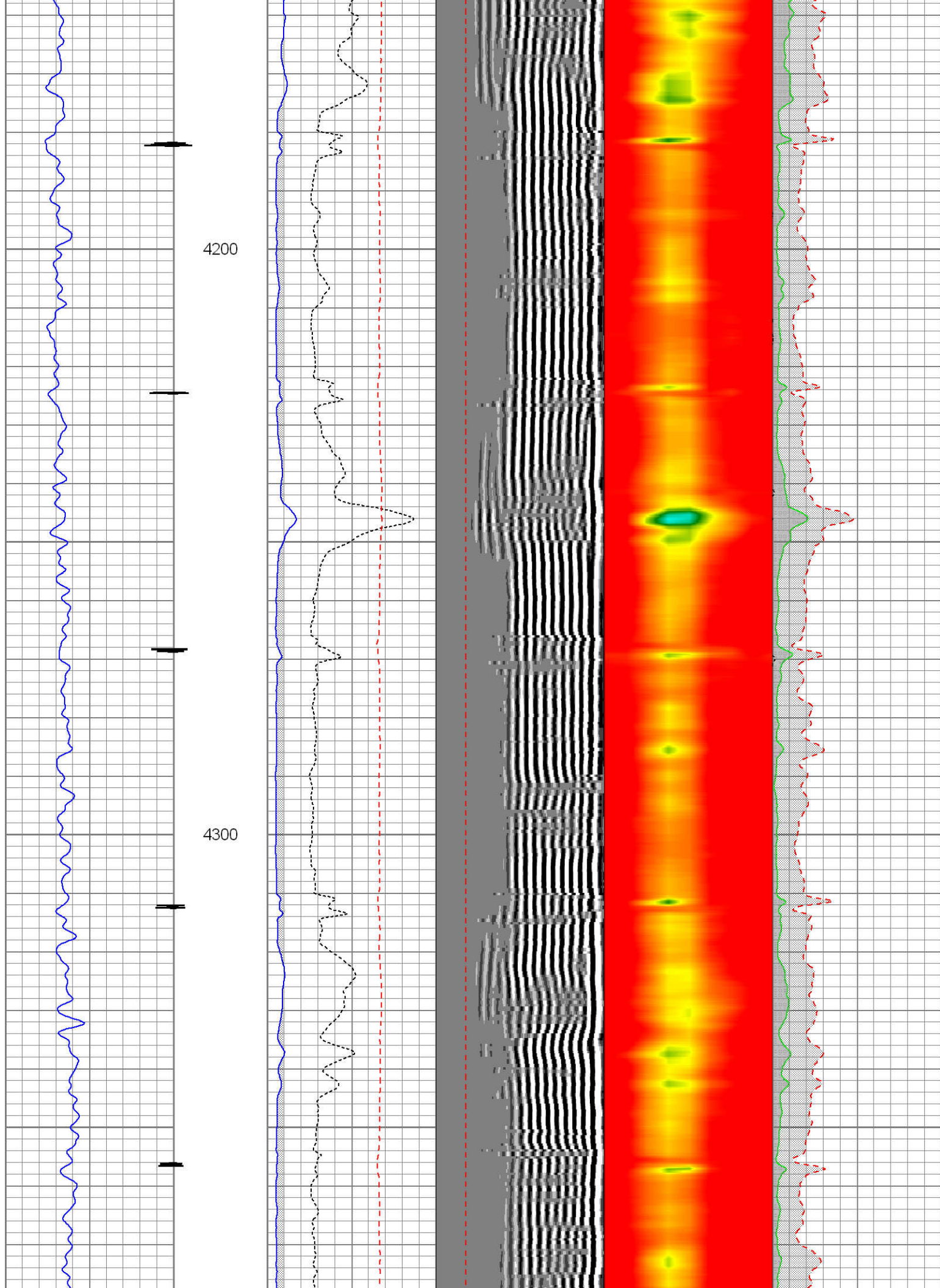
3' Amplitude x 5 →

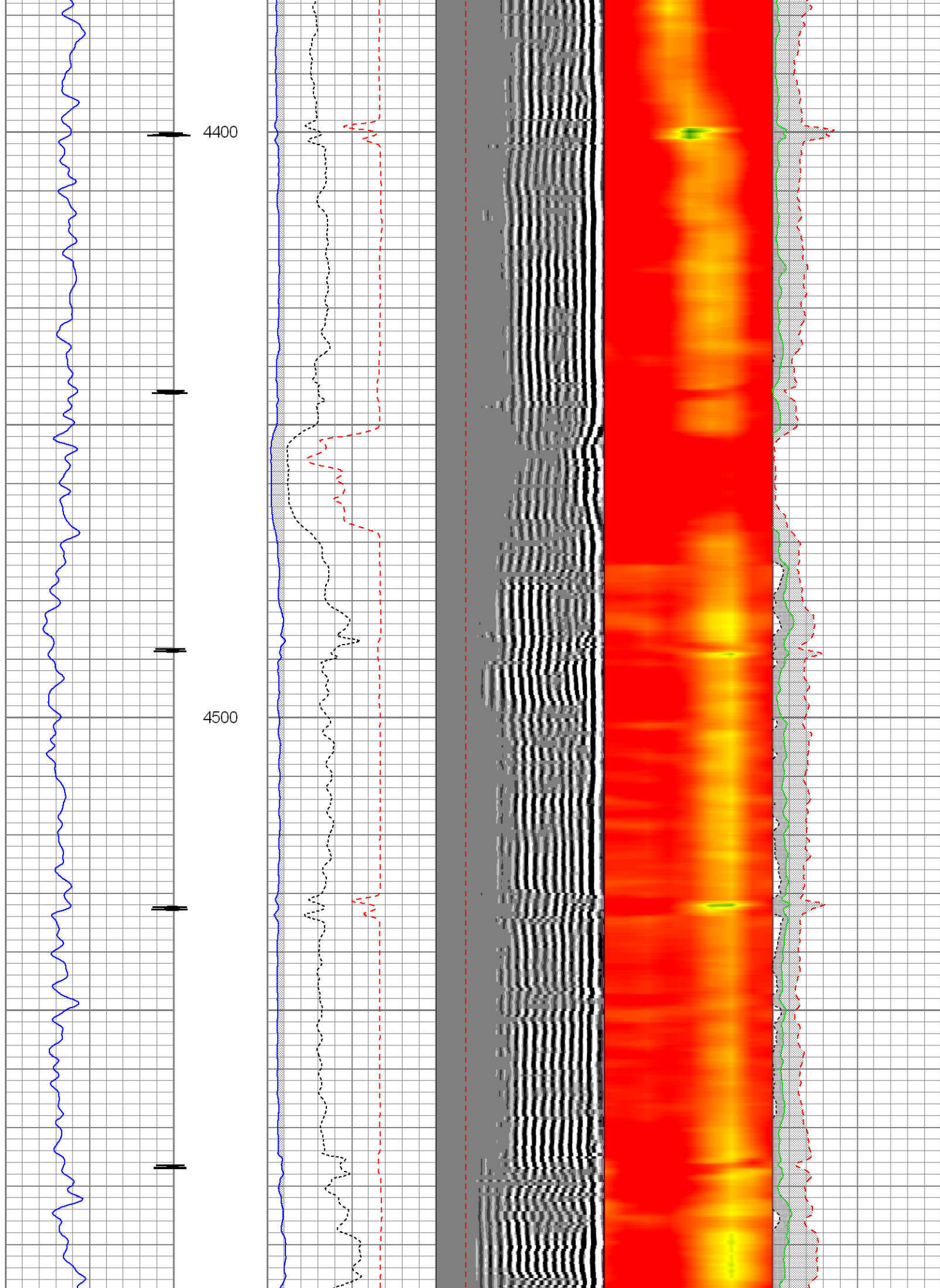


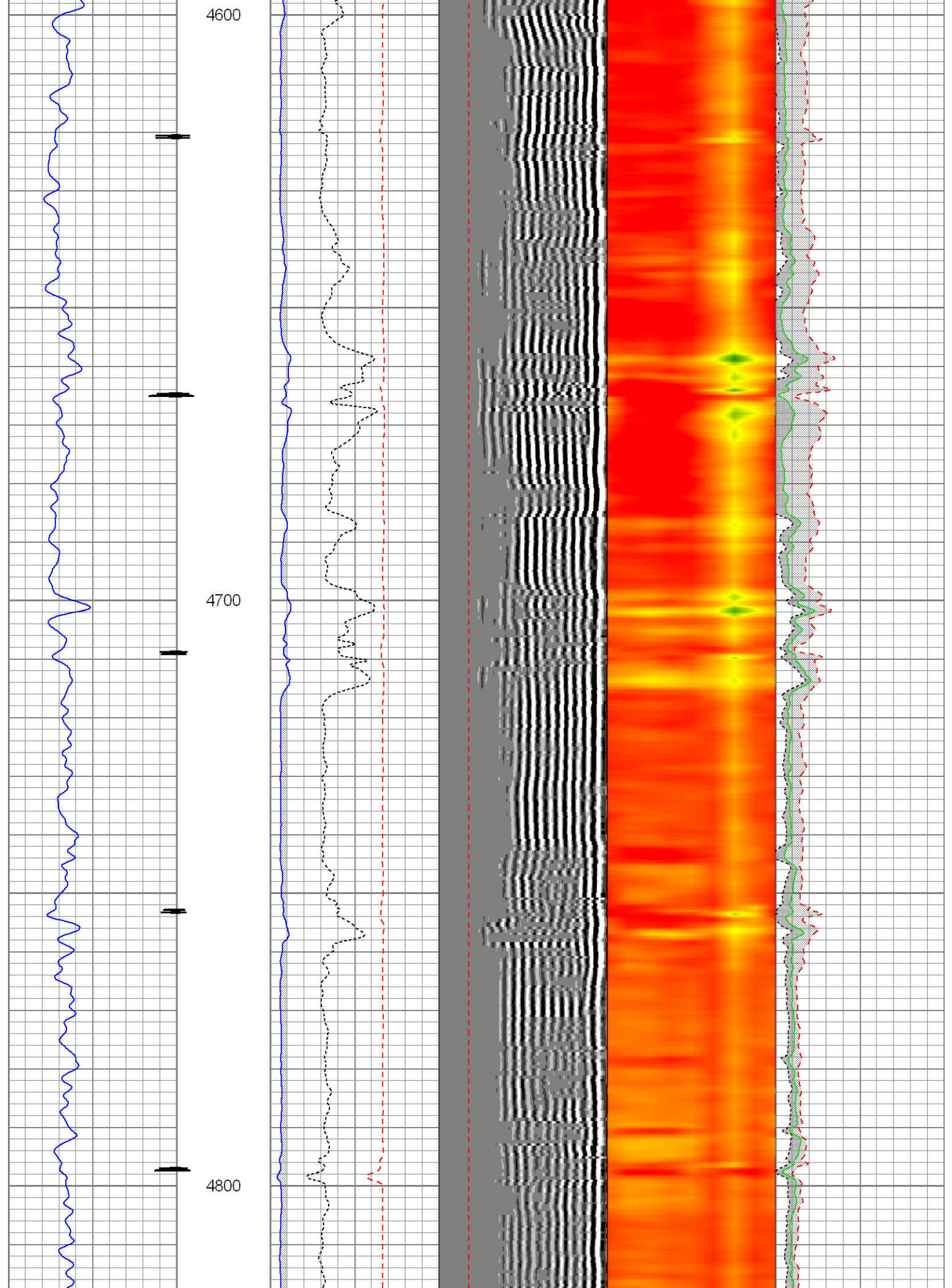


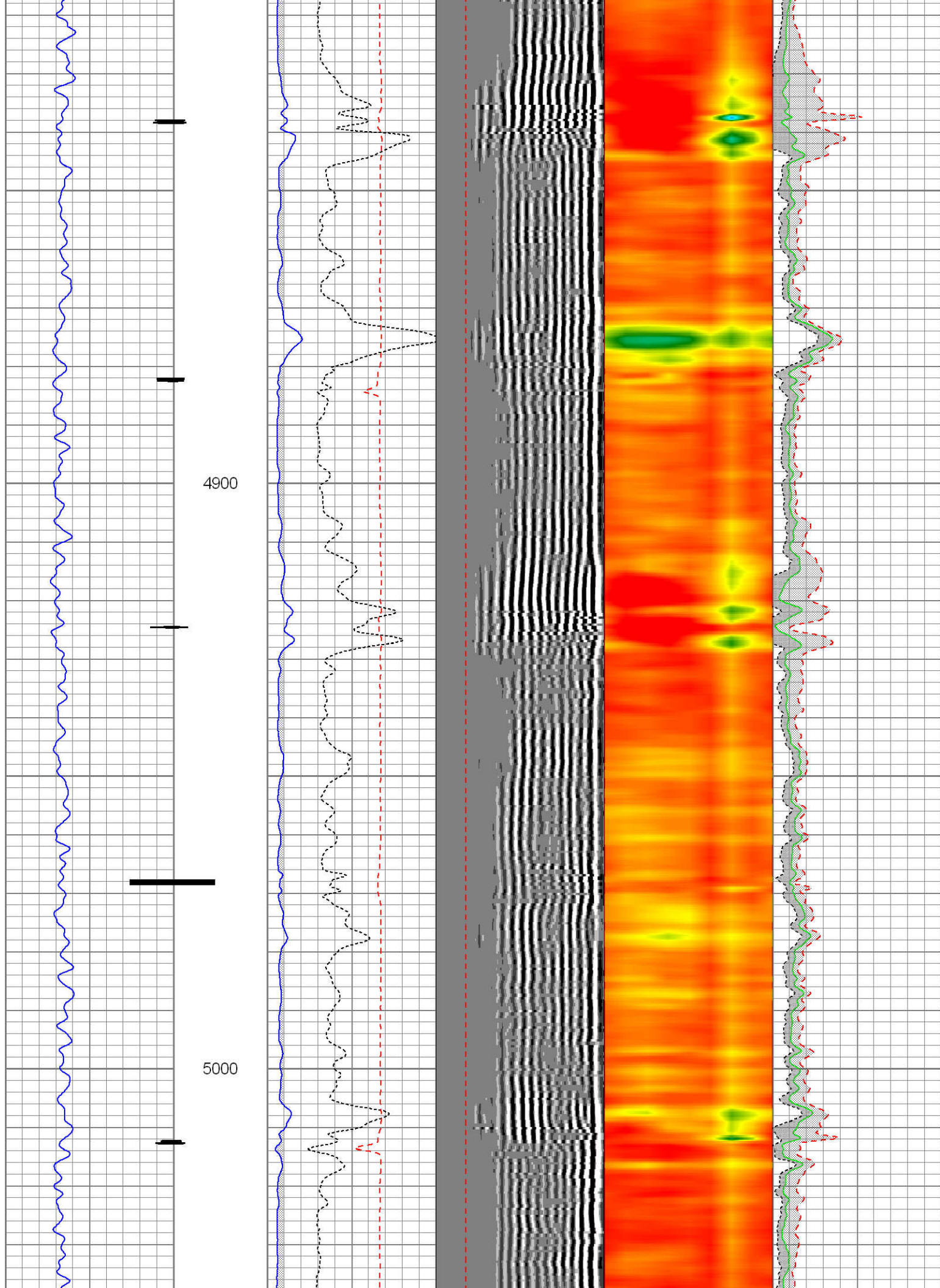


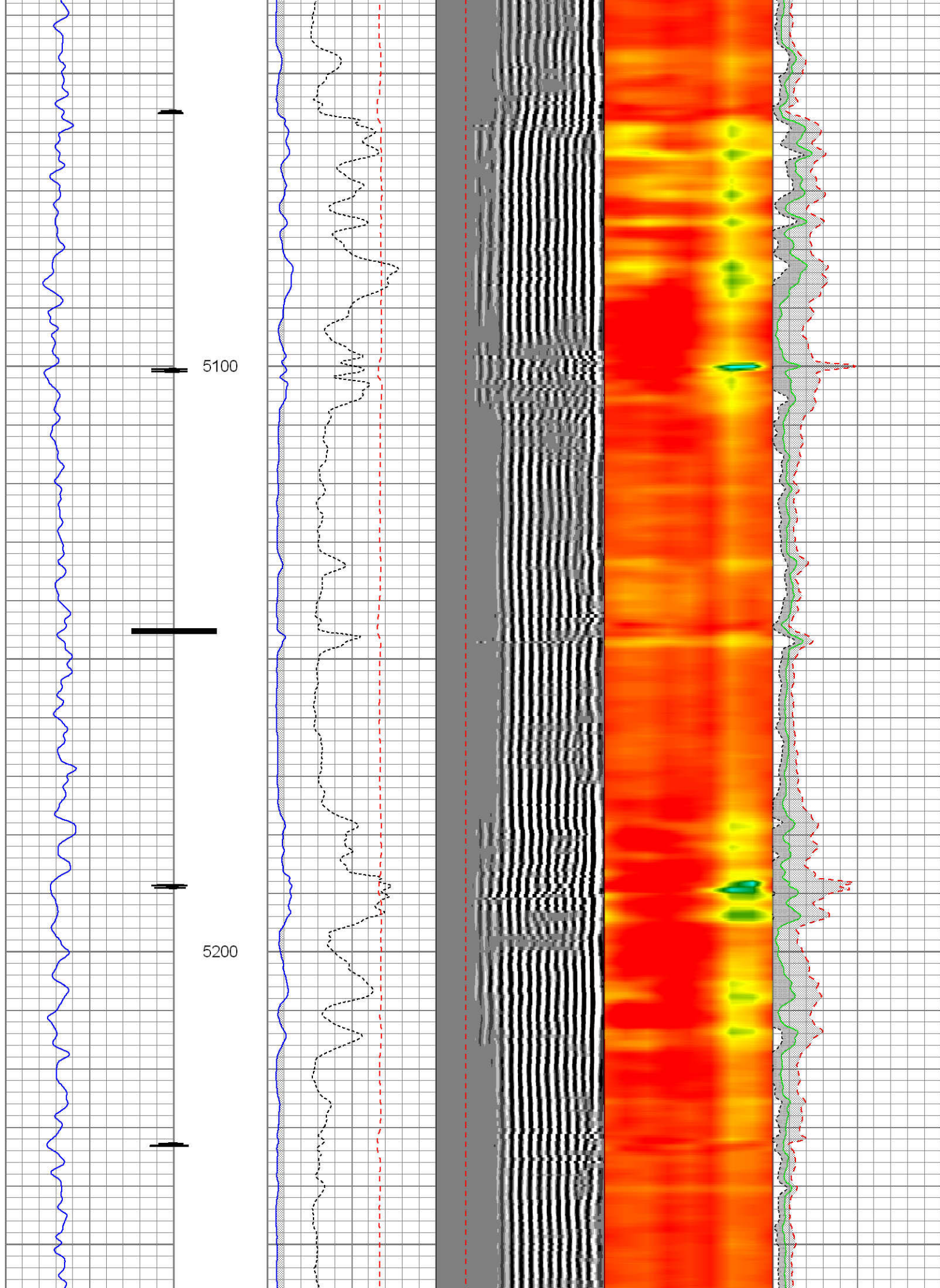


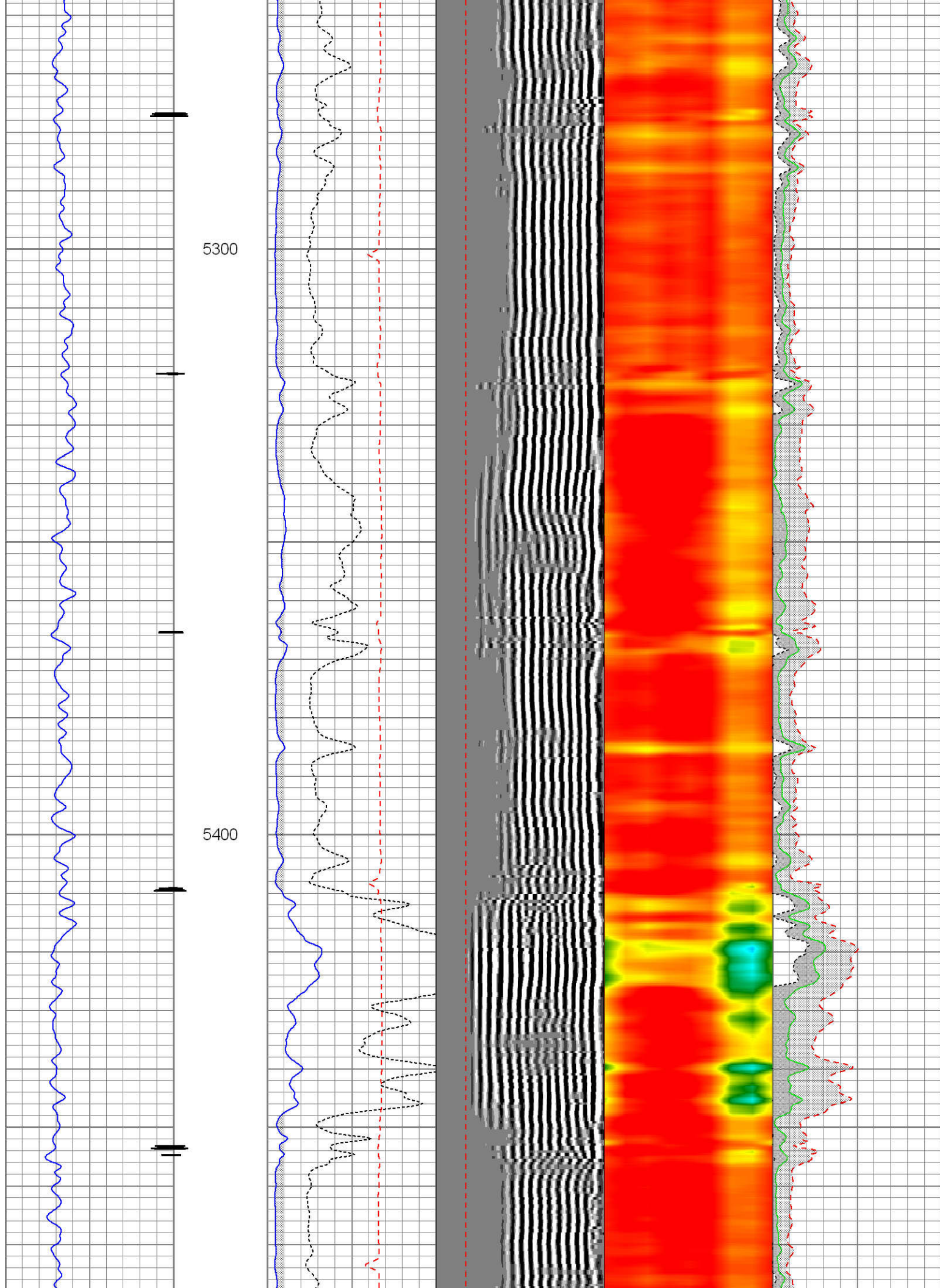


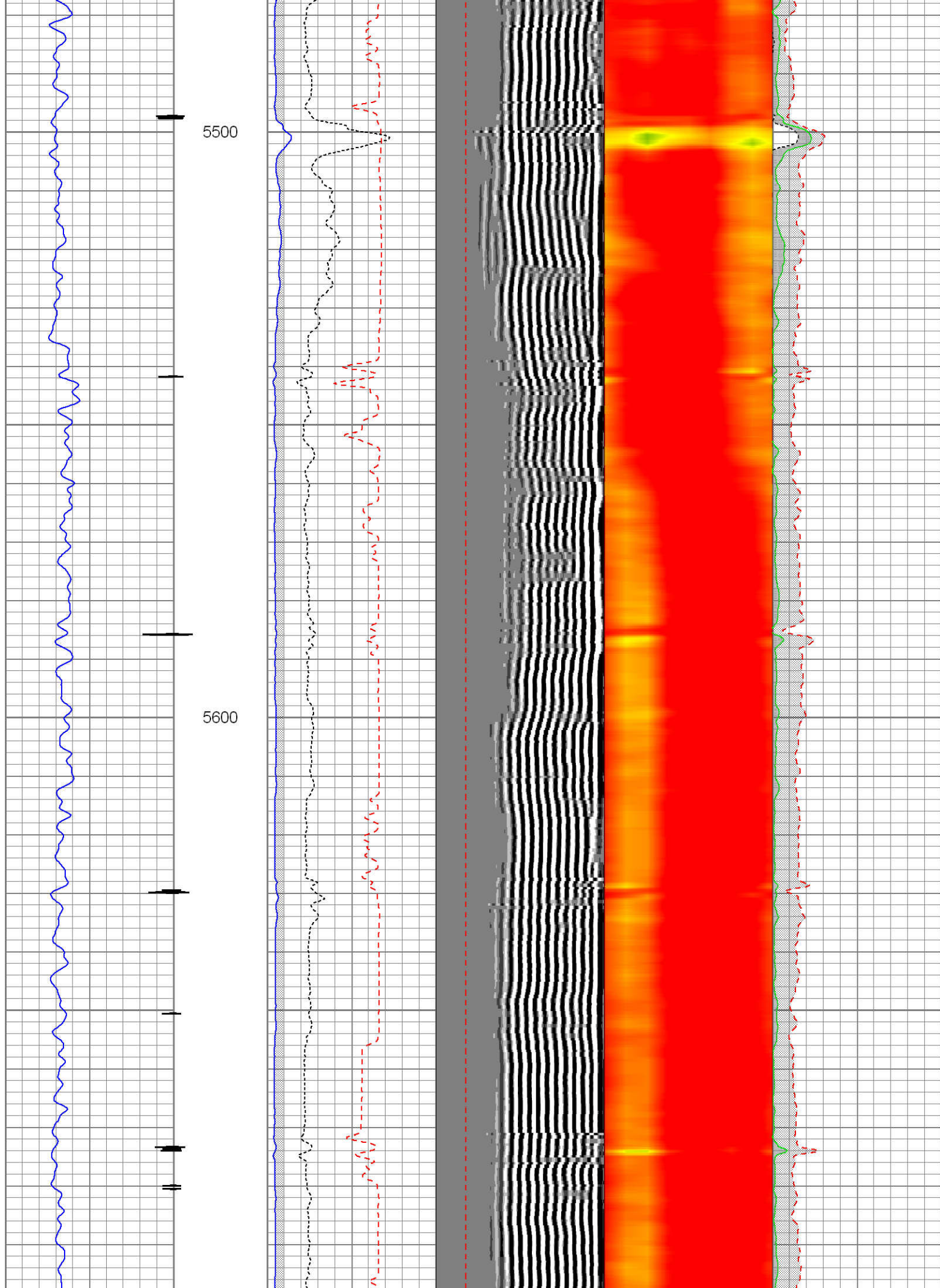


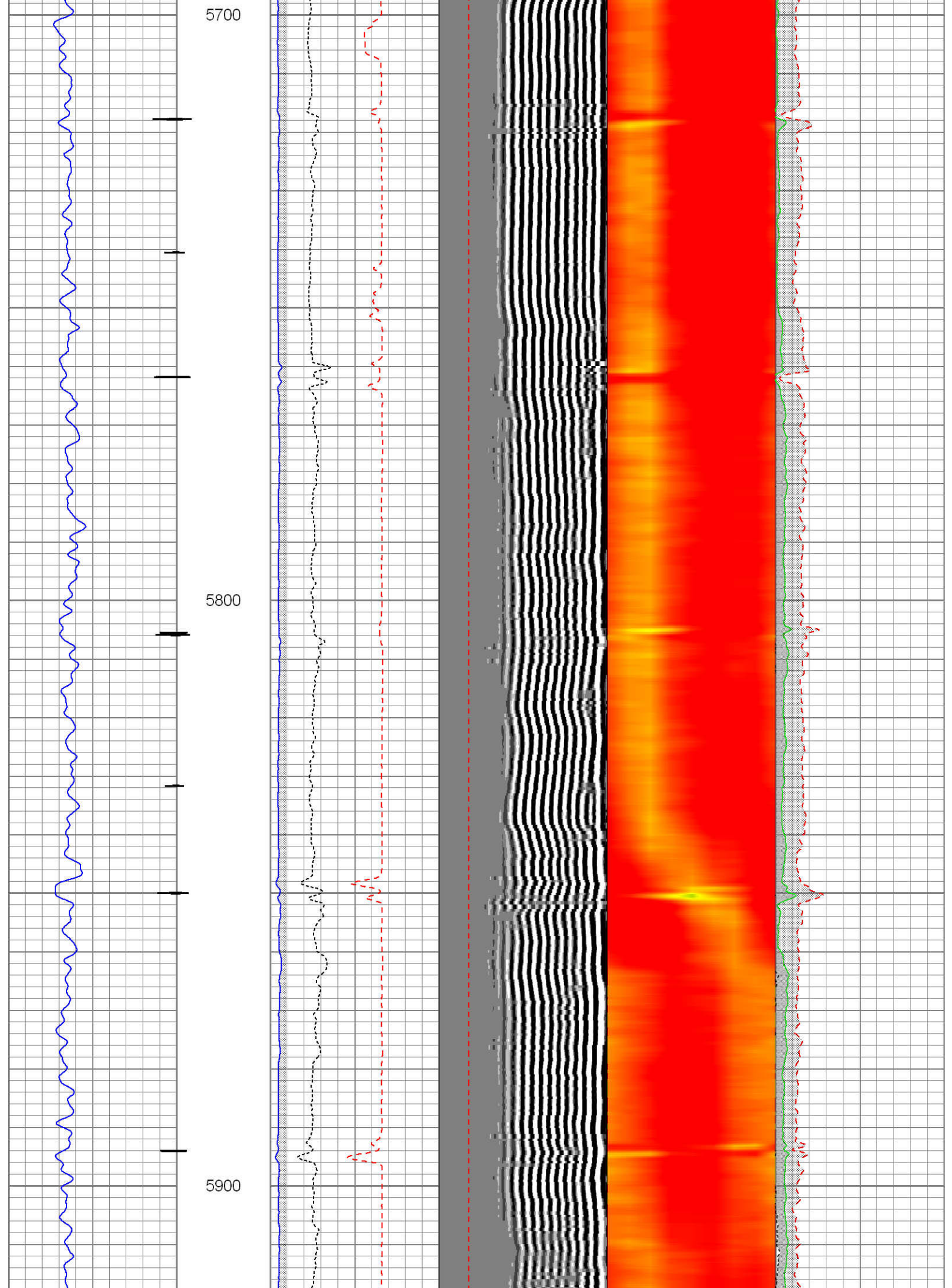


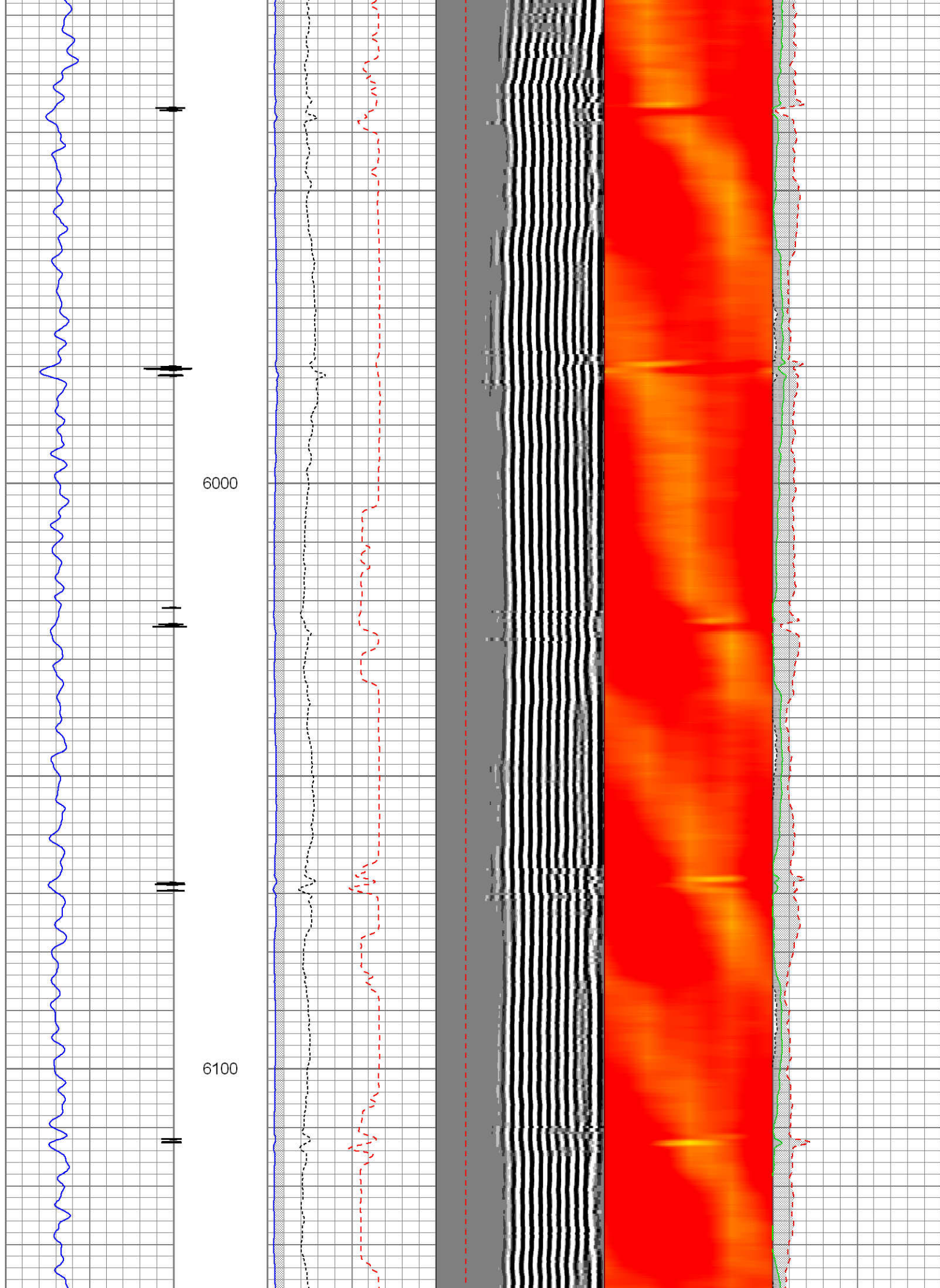


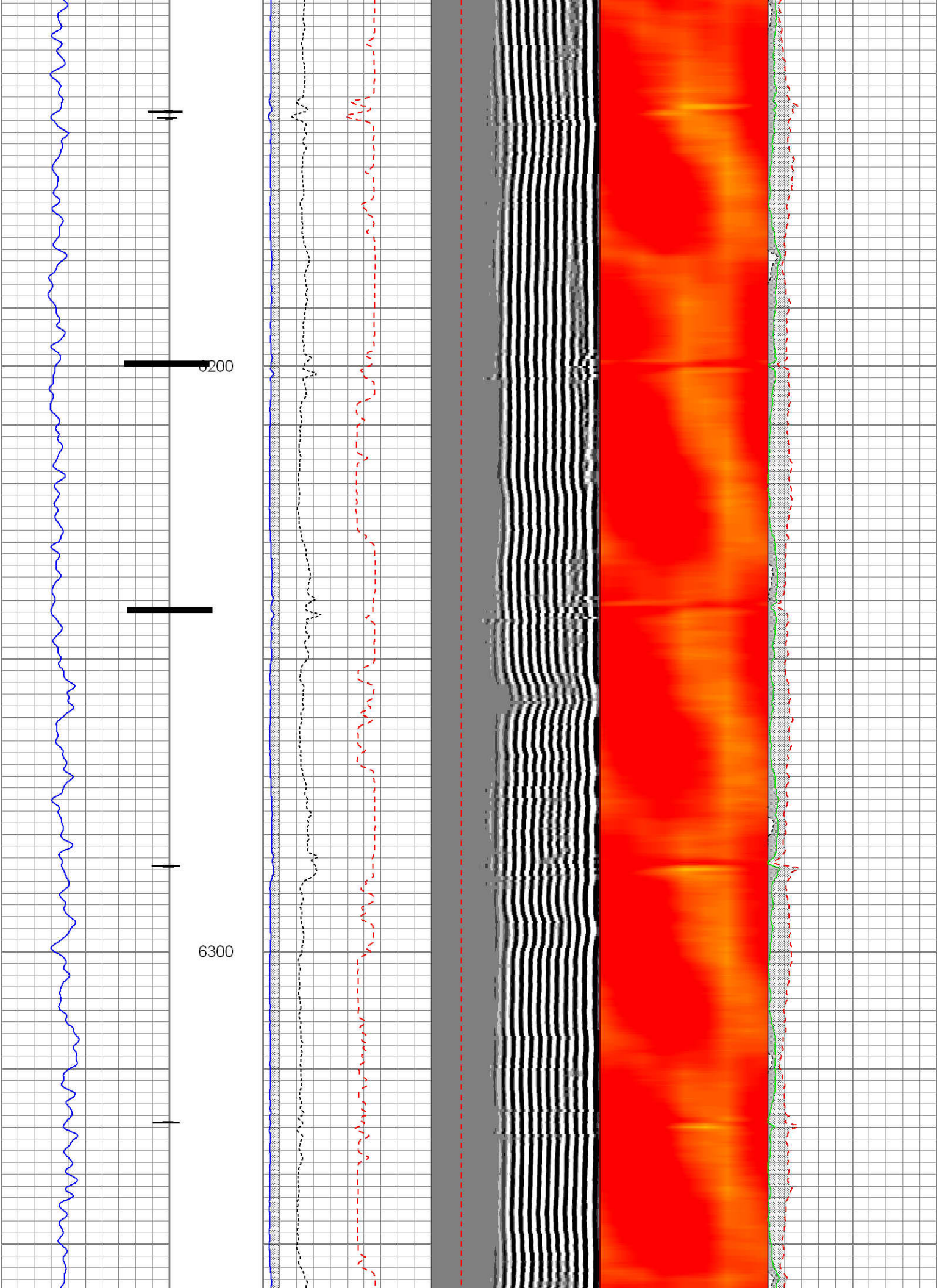


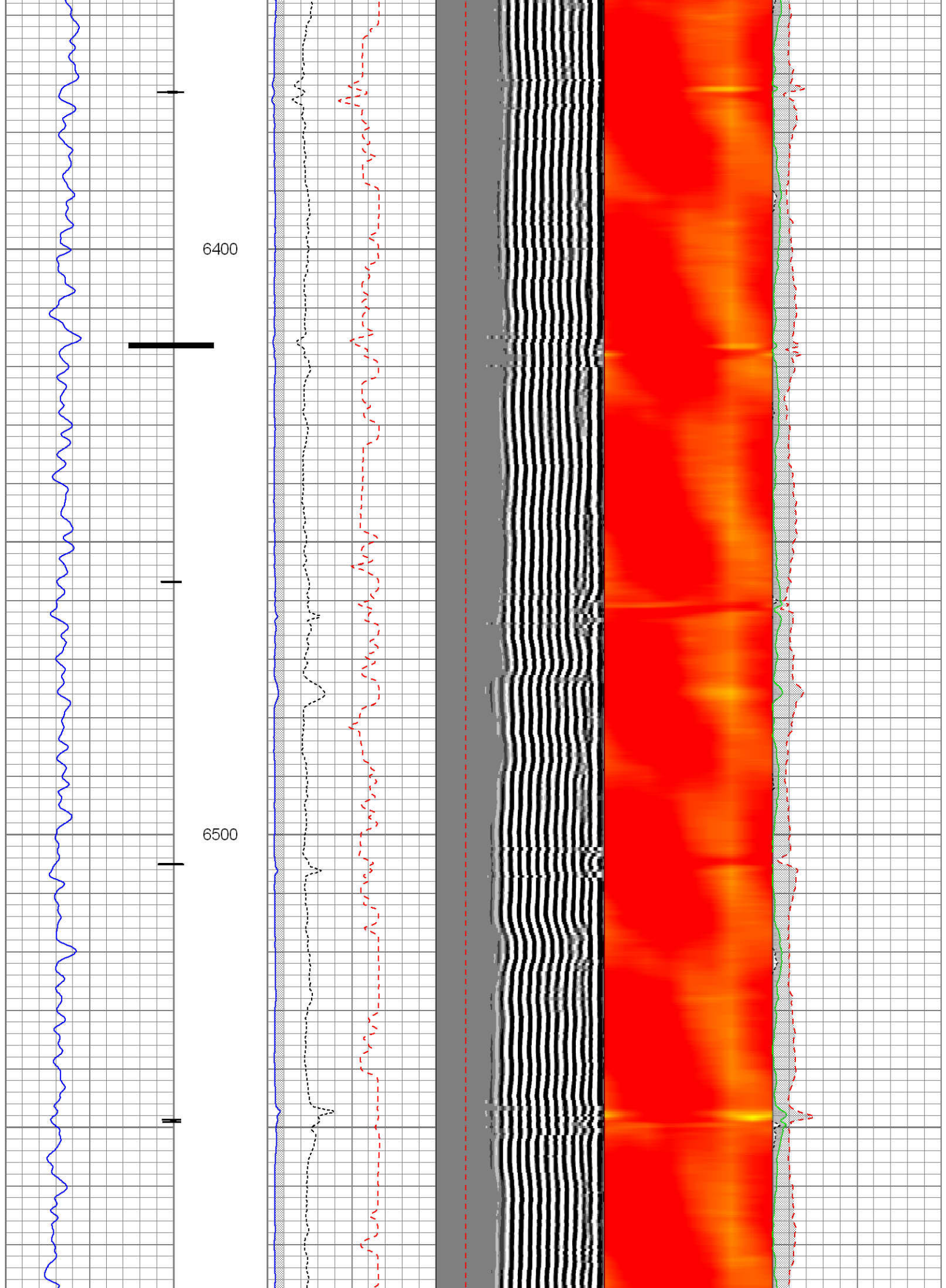


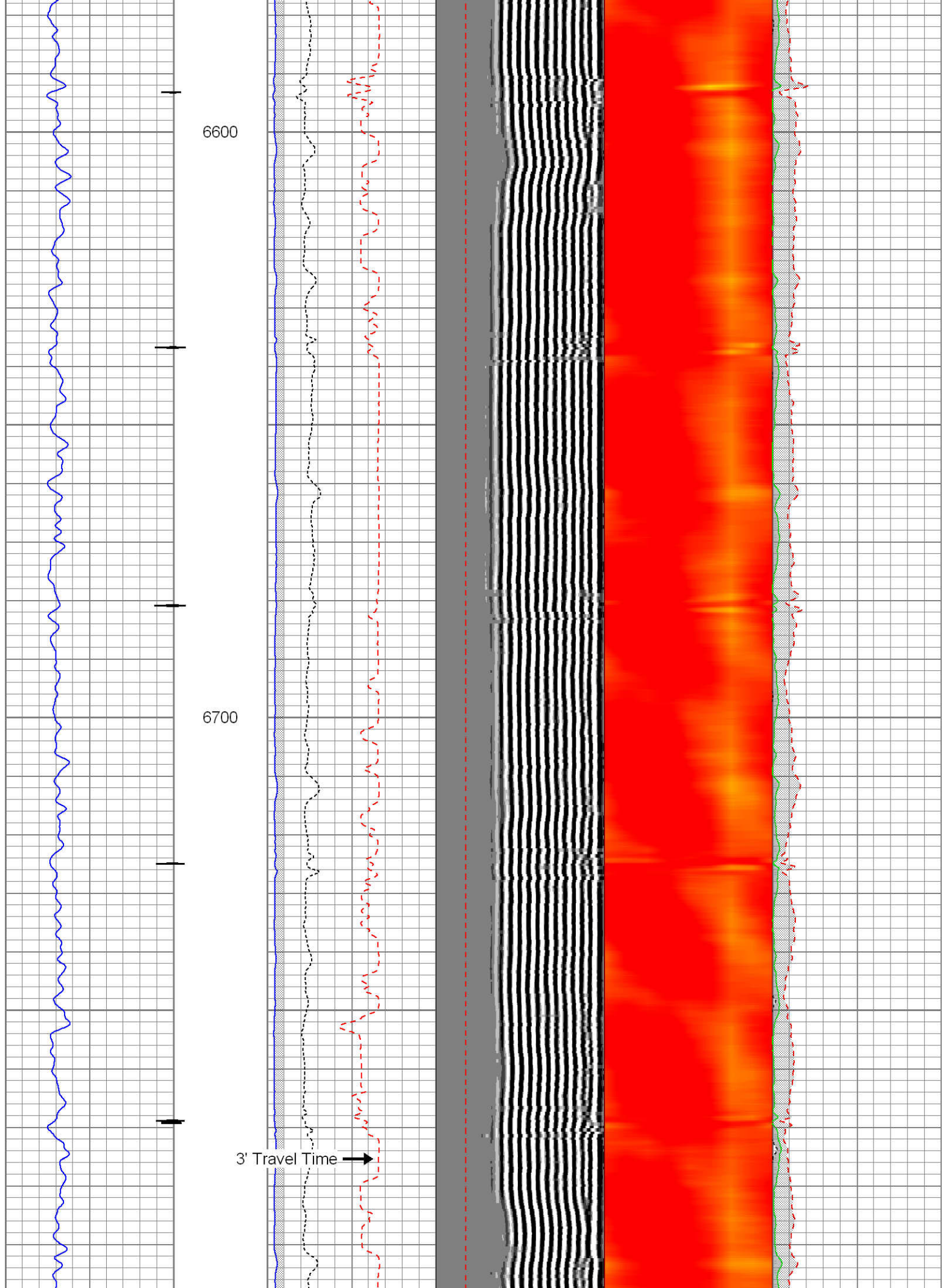


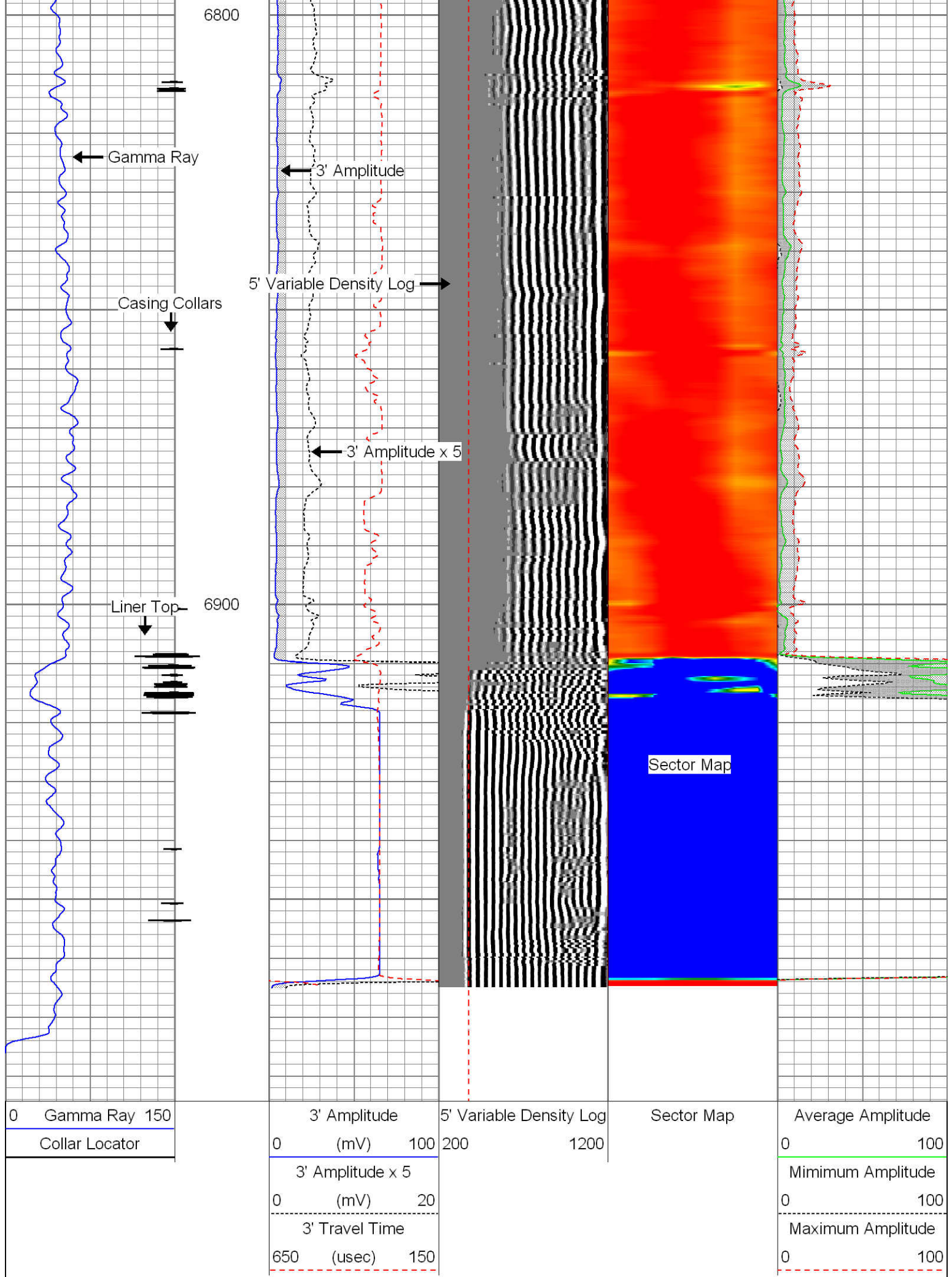


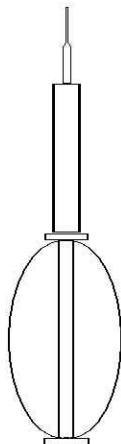
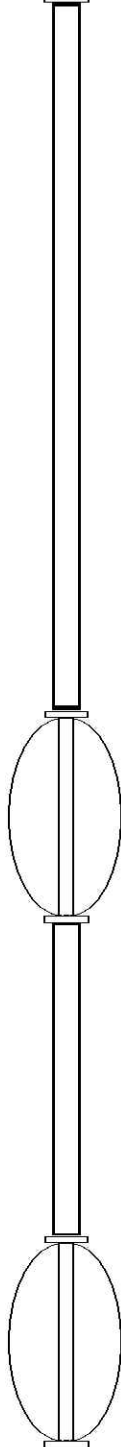










| Sensor | Offset (ft) | Schematic | Description | Len (ft) | OD (in) | Wt (lb) |
|---------|-------------|--|---|----------|---------|---------|
| CCL | 22.16 |  | STNDRD Standard Cable Head | 1.00 | 1.44 | 10.00 |
| | | | CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag | 1.92 | 2.75 | 20.00 |
| | | | SDSCENT Centralizer | 2.74 | 3.25 | 20.00 |
| TEMP | 16.40 |  | | | | |
| WVFS1 | 14.50 | | 275CTEKSECWTWSLCANS-275RIB (1239.10 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance | 1239.10 | 2.75 | 102.00 |
| WVFS2 | 14.50 | | | | | |
| WVFS3 | 14.50 | | | | | |
| WVFS4 | 14.50 | | | | | |
| WVFS5 | 14.50 | | | | | |
| WVFS6 | 14.50 | | | | | |
| WVFS7 | 14.50 | | | | | |
| WVFS8 | 14.50 | | | | | |
| WVF3FT | 13.77 | | | | | |
| WVF5FT | 12.79 | | | | | |
| WVFCAL | 9.48 | | | | | |
| WVFTEMP | 9.48 | | | | | |
| WVFSYNC | 9.48 | | | | | |
| GR | 3.78 | SDSCENT Centralizer | 2.74 | 3.25 | 20.00 | |
| | | | | | | |
| | | GR-Tek-Co (Tek-Co2) 2 3/4 400deg Scint gamma | 4.00 | 2.75 | 40.00 | |
| | | SDSCENT Centralizer | 2.74 | 3.25 | 20.00 | |



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|---------|---------------------------------|
| Company | KERR-McGEE OIL & GAS ONSHORE, L |
| Well | SARCHET 37C-32HZ |
| Field | WATTENBERG |
| County | WELD |
| State | COLORADO |