



Radial Cement Bond  
Gamma Ray  
Collar Correlation Log

|                        |        |                                     |        |      |         |      |          |
|------------------------|--------|-------------------------------------|--------|------|---------|------|----------|
| Company                |        | Kerr-McGee Oil & Gas Onshore, L.P.  |        |      |         |      |          |
| Well                   |        | Bydalek 29C-20HZ                    |        |      |         |      |          |
| Field                  |        | Wattenberg                          |        |      |         |      |          |
| County                 |        | Weld                                |        |      |         |      |          |
| State                  |        | Colorado                            |        |      |         |      |          |
| Location:              |        | API # : 05-123-36219                |        |      |         |      |          |
| Permanent Datum        |        | SHL: 581' FSL & 1146' FWL           |        |      |         |      |          |
| Log Measured From      |        | Lat / Long: 40.118345 / -104.693212 |        |      |         |      |          |
| Drilling Measured From |        | SEC 20 TWP 2N RGE 65W               |        |      |         |      |          |
| Ground Level           |        | Elevation 4932                      |        |      |         |      |          |
| Kelly Bushing (14 FT)  |        | Other Services Gauge Run Plug Set   |        |      |         |      |          |
| Elevation              |        | K.B. 4946<br>D.F. 4945<br>G.L. 4932 |        |      |         |      |          |
| Date                   |        | 29-May-2013                         |        |      |         |      |          |
| Run Number             |        | Three                               |        |      |         |      |          |
| Depth Driller          |        | 11880 FT                            |        |      |         |      |          |
| Depth Logger           |        | 6785 FT                             |        |      |         |      |          |
| Bottom Logged Interval |        | 6783 FT                             |        |      |         |      |          |
| Top Log Interval       |        | 17                                  |        |      |         |      |          |
| Open Hole Size         |        | 8.750"                              |        |      |         |      |          |
| Type Fluid             |        | Water                               |        |      |         |      |          |
| Density / Viscosity    |        | 8.34 lb/gal                         |        |      |         |      |          |
| Max. Recorded Temp.    |        | 226 degF                            |        |      |         |      |          |
| Estimated Cement Top   |        | 50                                  |        |      |         |      |          |
| Time Well Ready        |        | 12:15                               |        |      |         |      |          |
| Time Logger on Bottom  |        | 12:45                               |        |      |         |      |          |
| Equipment Number       |        | HD-0265                             |        |      |         |      |          |
| Location               |        | Ft. Lupton, CO.                     |        |      |         |      |          |
| Recorded By            |        | Sam Hopper                          |        |      |         |      |          |
| Witnessed By           |        | Keith Kaissen                       |        |      |         |      |          |
| Borehole Record        |        | Tubing Record                       |        |      |         |      |          |
| Run Number             | Bit    | From                                | To     | Size | Weight  | From | To       |
|                        |        |                                     |        |      |         |      |          |
|                        |        |                                     |        |      |         |      |          |
|                        |        |                                     |        |      |         |      |          |
|                        |        |                                     |        |      |         |      |          |
| Casing Record          | Size   |                                     | Wgt/Ft |      | Top     |      | Bottom   |
| Surface String         | 9-5/8" |                                     | 36#    |      | 0       |      | 990 FT   |
| Prot. String           | 7"     |                                     | 26#    |      | 0       |      | 7706 FT  |
| Production String      |        |                                     |        |      |         |      |          |
| Liner                  | 4-1/2" |                                     | 11.6#  |      | 6734 FT |      | 11865 FT |

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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

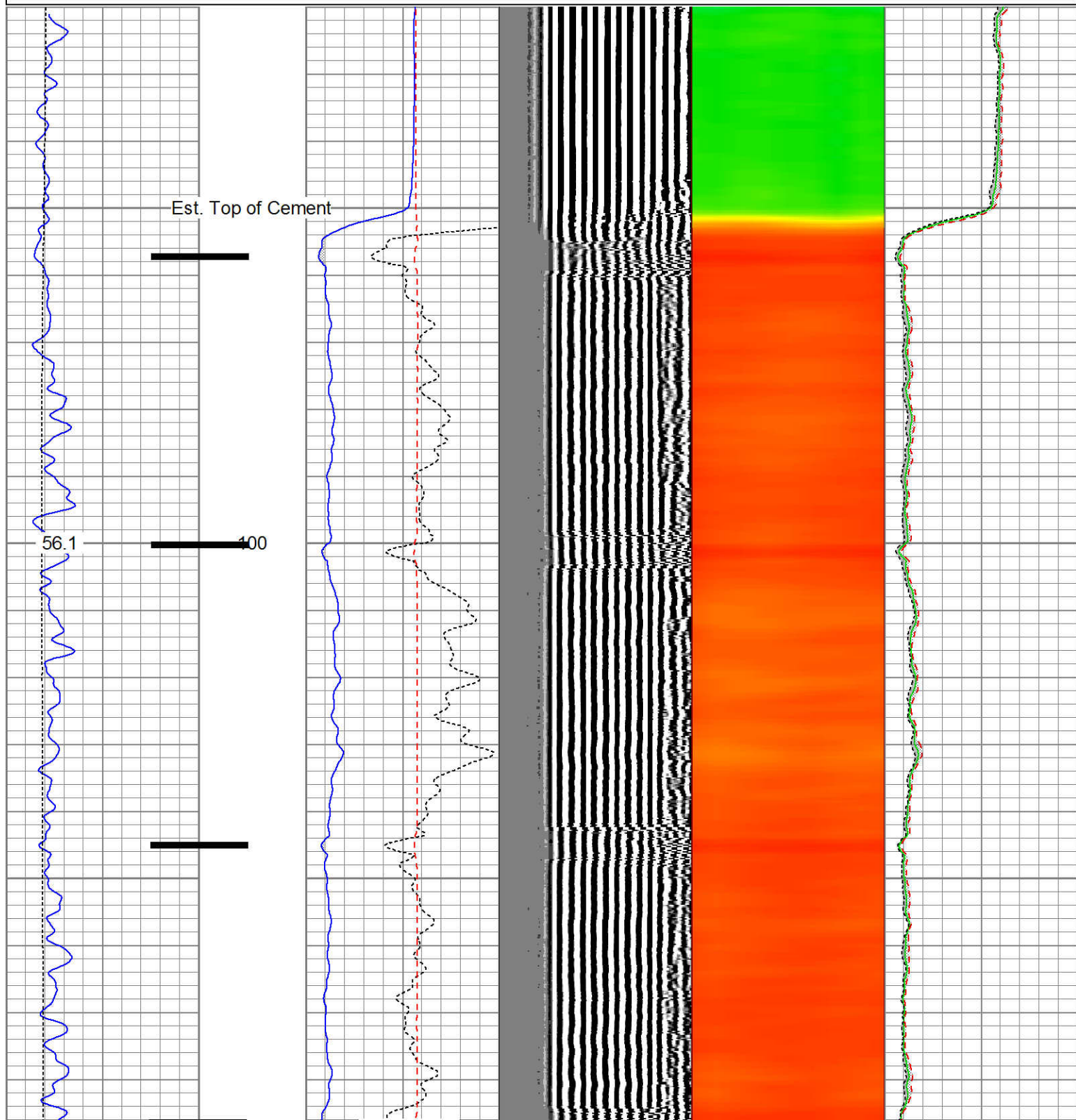
Depth Ref to Casing Tally Top of Liner reports.  
Correlated to Top of Liner ~ Adjusted -8' to TOL at 6734' from a 14' KB zero.  
Run RCBL from just below Liner Top to Surface.  
RCBL ran under 2800 PSI surface induced pressure.  
Estimated Cement Top recorded at 50'.

Thank you for choosing FMC Technologies Completion Services!!!

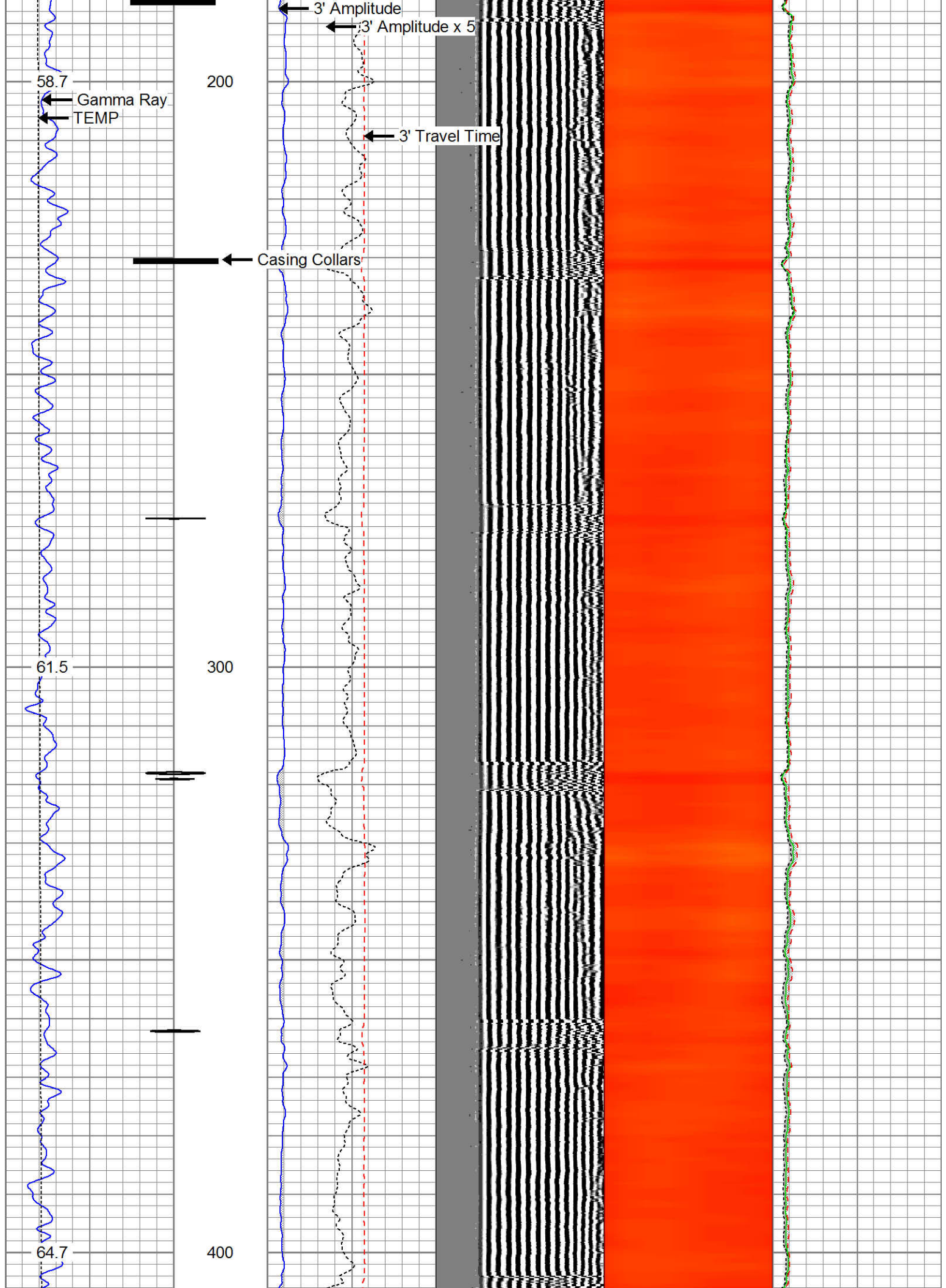
Main Pass 2800 PSI

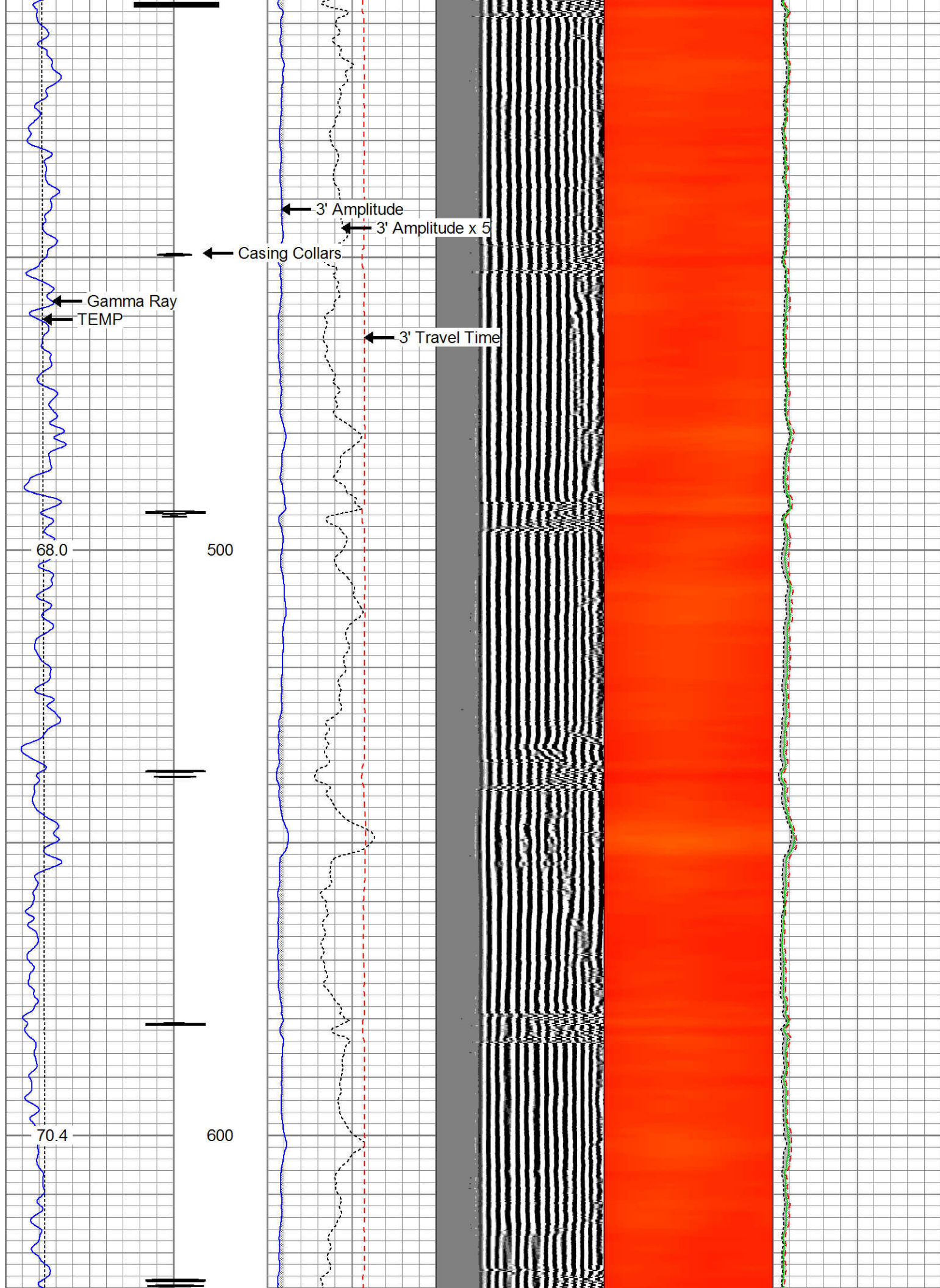
Database File: kmg bydalek 29c-20hz.db  
Dataset Pathname: 29may13/well/rcbl/pass9  
Presentation Format: rbt007  
Dataset Creation: Wed May 29 12:46:04 2013 by Log SCH 111116  
Charted by: Depth in Feet scaled 1:240

|                |                 |                  |            |                         |      |            |                   |     |
|----------------|-----------------|------------------|------------|-------------------------|------|------------|-------------------|-----|
| Gamma Ray      |                 | 3' Amplitude     |            | 5' Variable Density Log |      | Sector Map | Average Amplitude |     |
| 0              | (GAPI) 150      | 0                | (mV) 100   | 200                     | 1200 |            | 0                 | 100 |
| Collar Locator |                 | 3' Amplitude x 5 |            |                         |      |            | Minimum Amplitude |     |
| 0              | TEMP (degF) 300 | 0                | (mV) 20    |                         |      |            | 0                 | 100 |
| TEMP           |                 | 3' Travel Time   |            |                         |      |            | Maximum Amplitude |     |
| (degF)         |                 | 650              | (usec) 150 |                         |      | 0          | 100               |     |

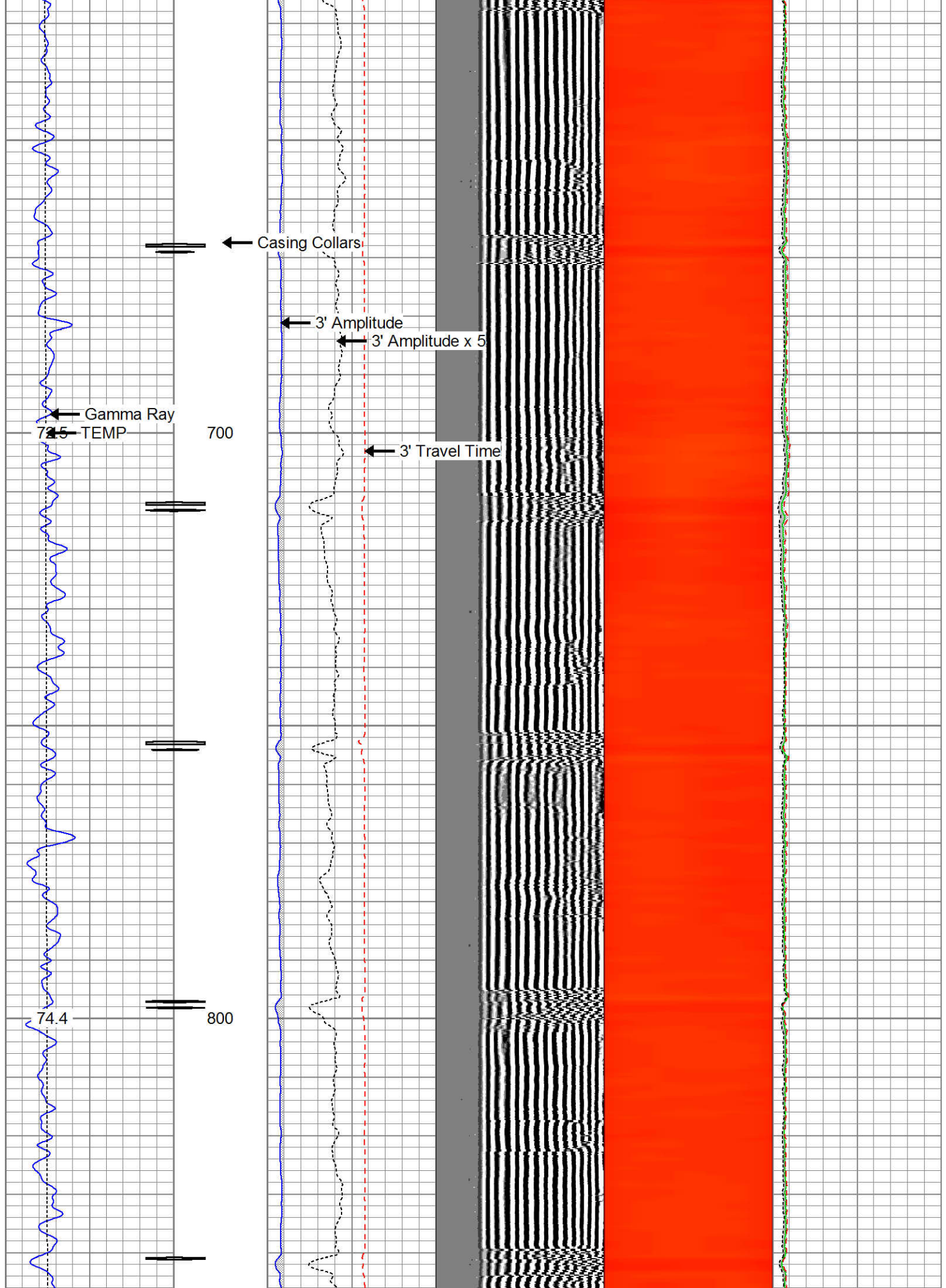


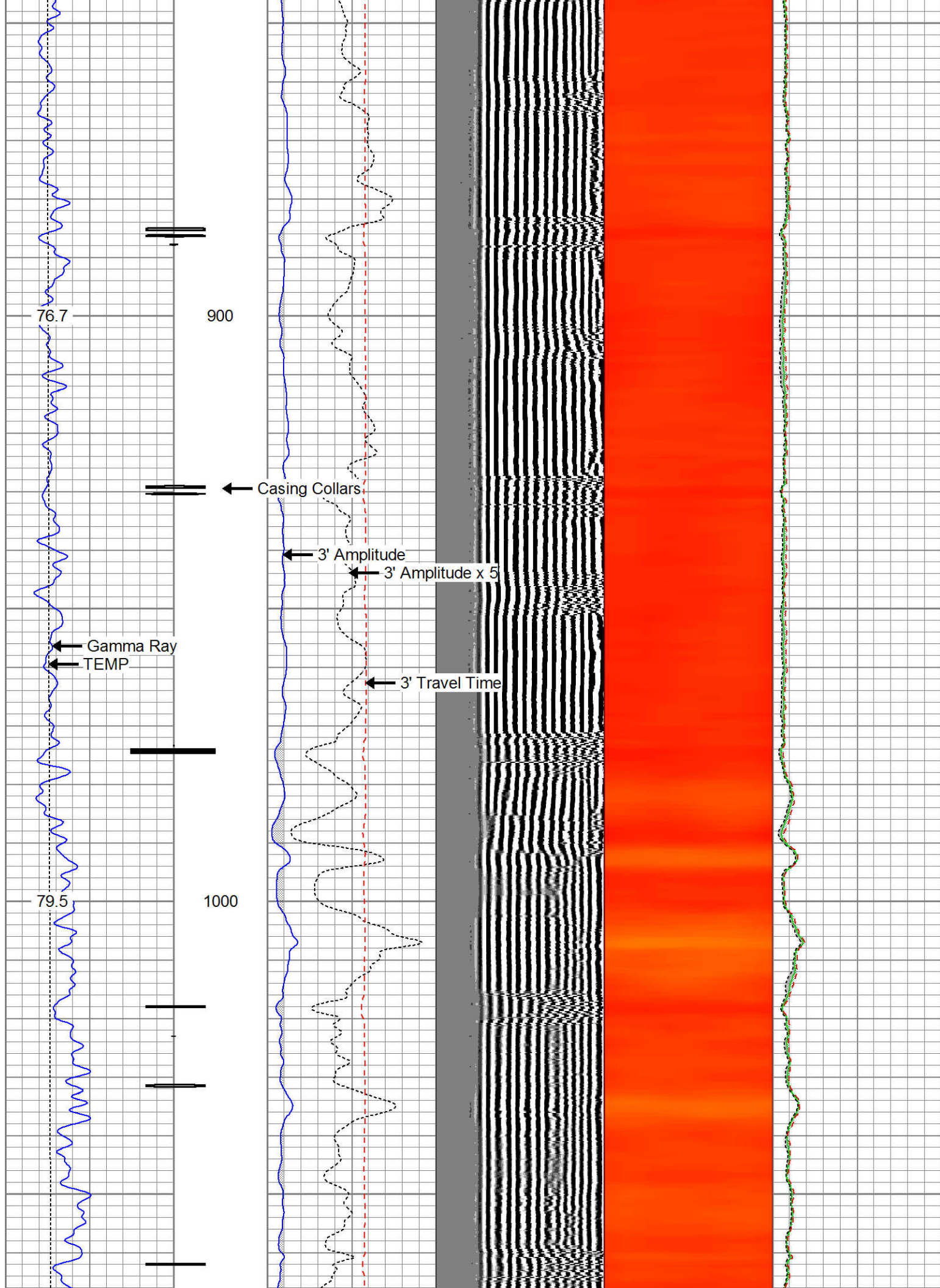




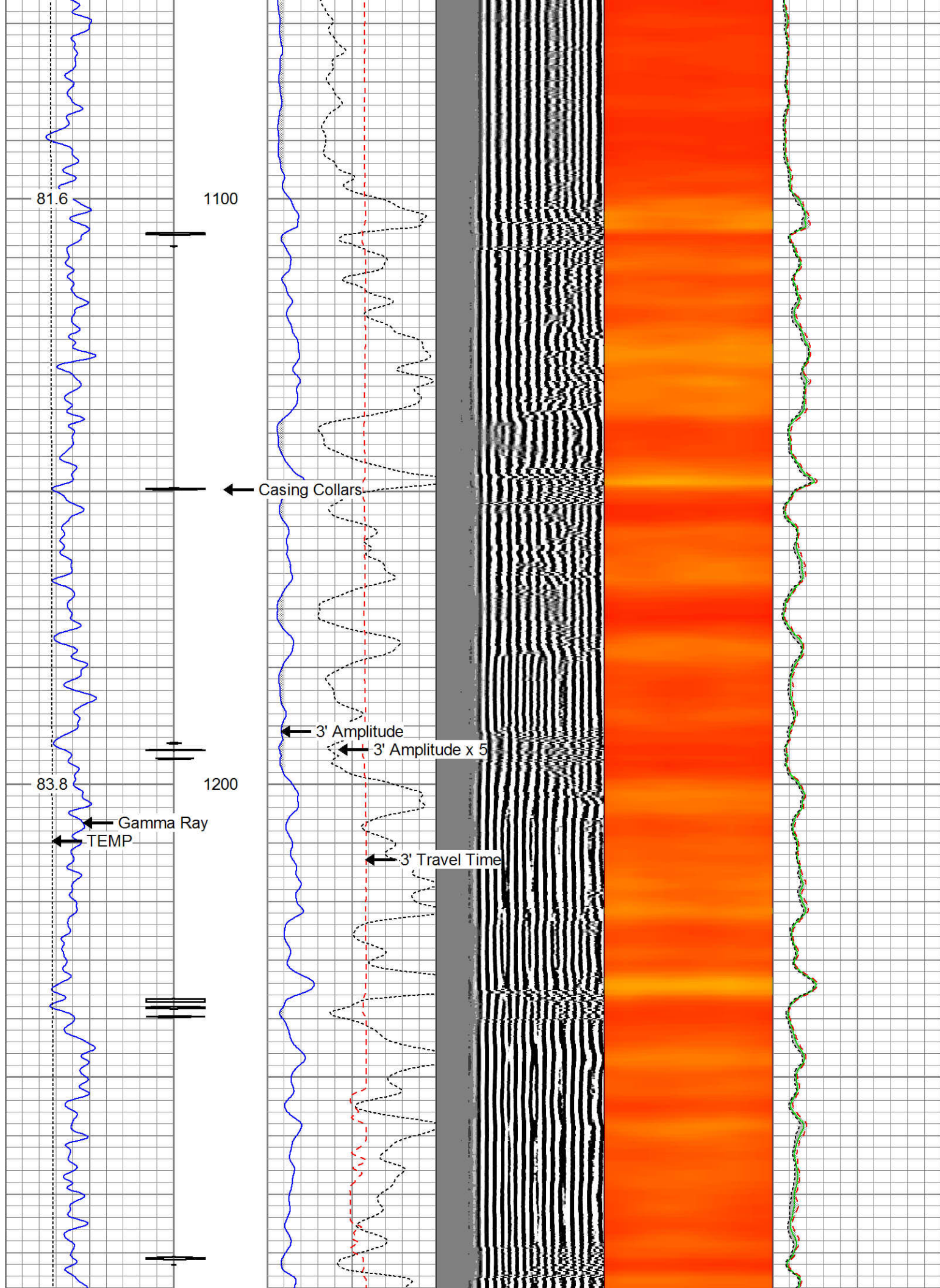


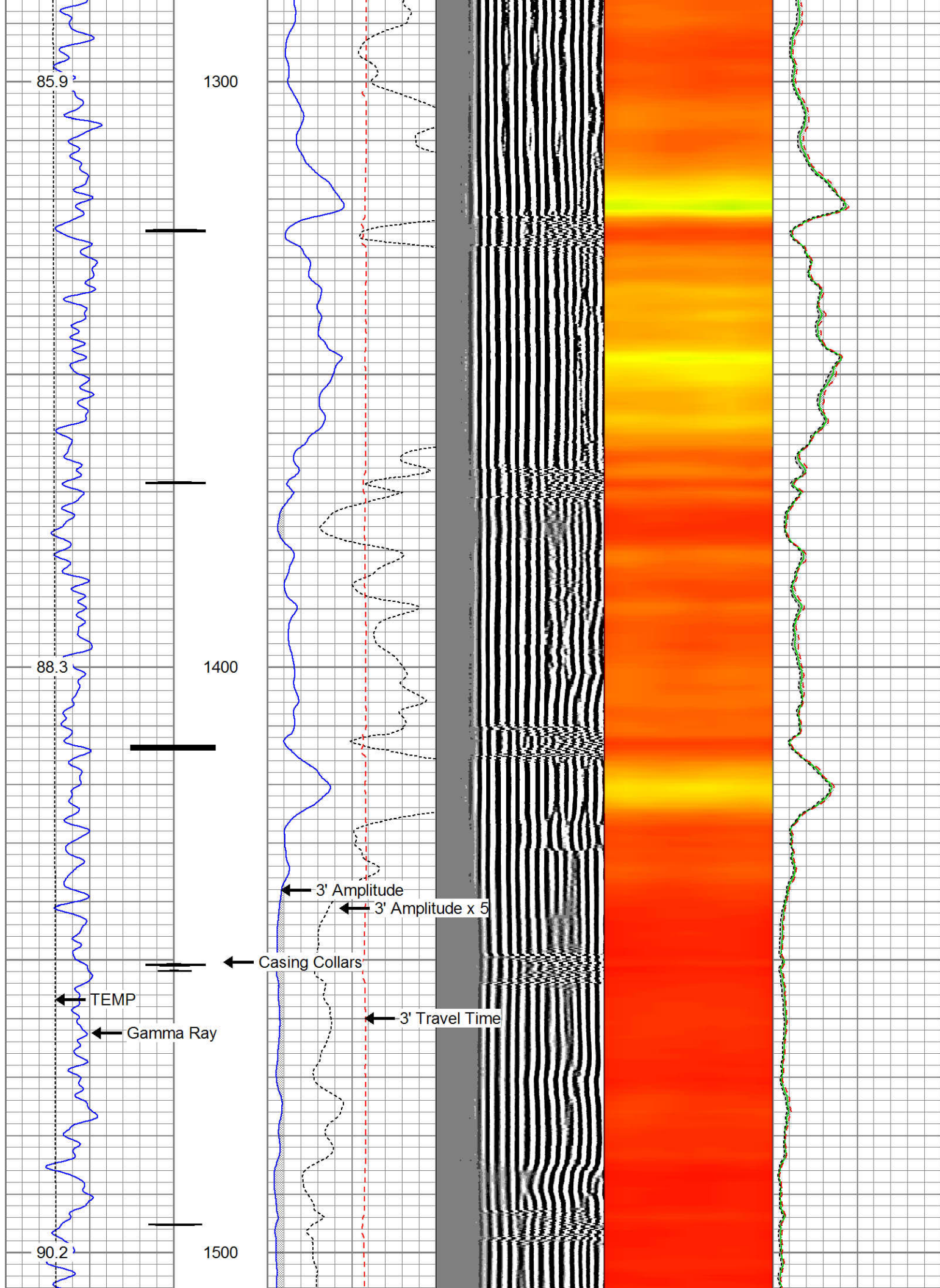




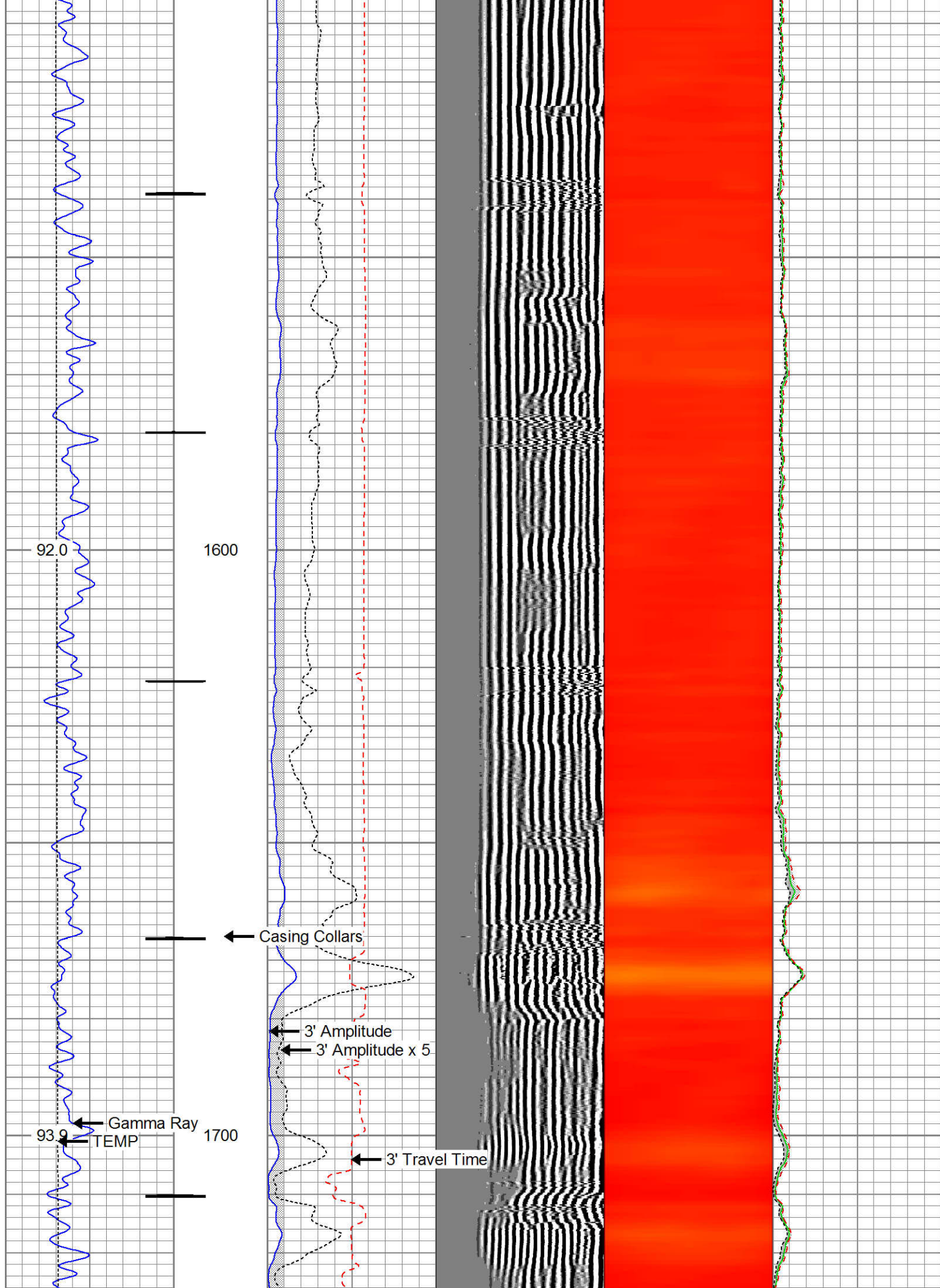


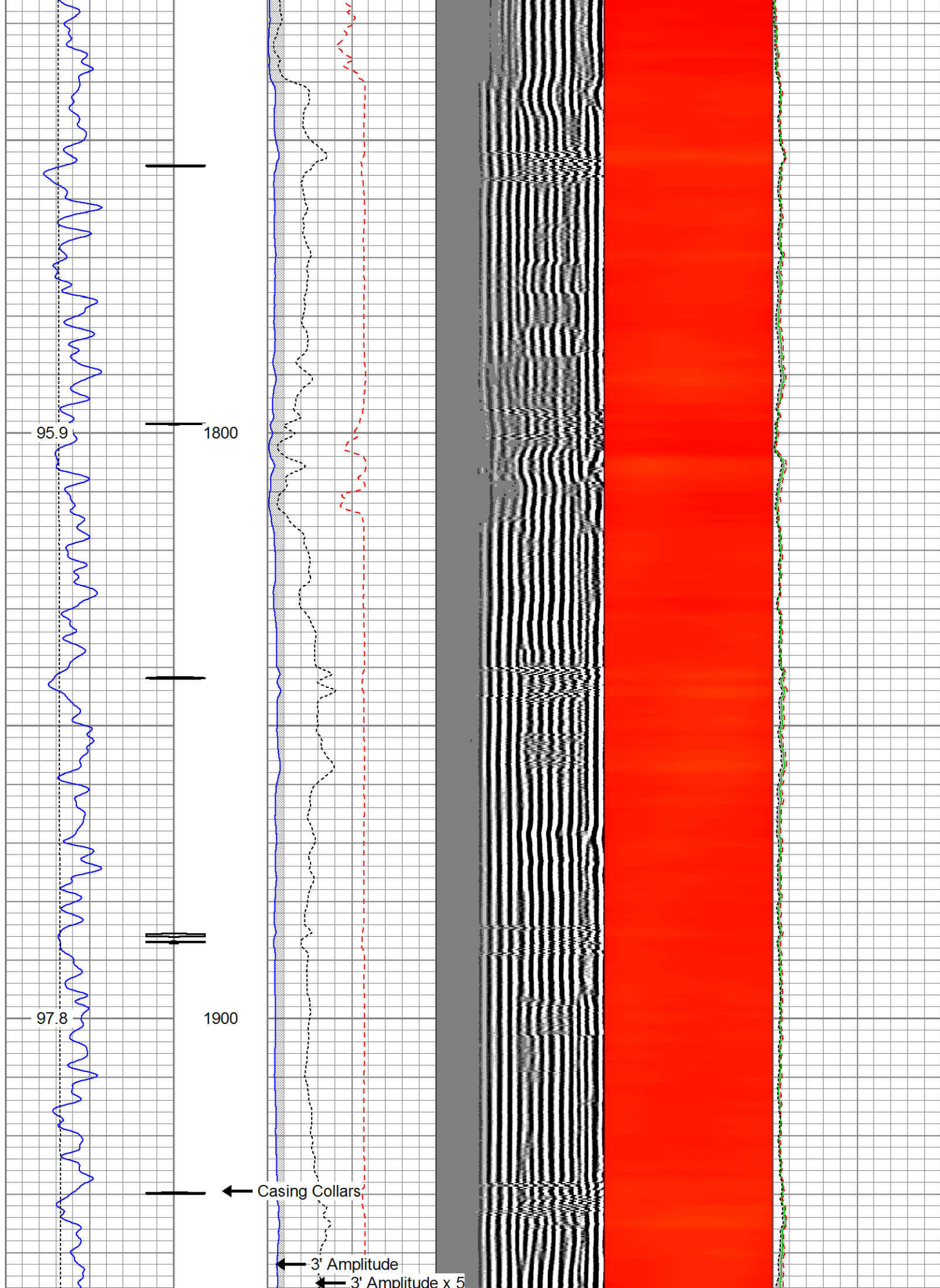




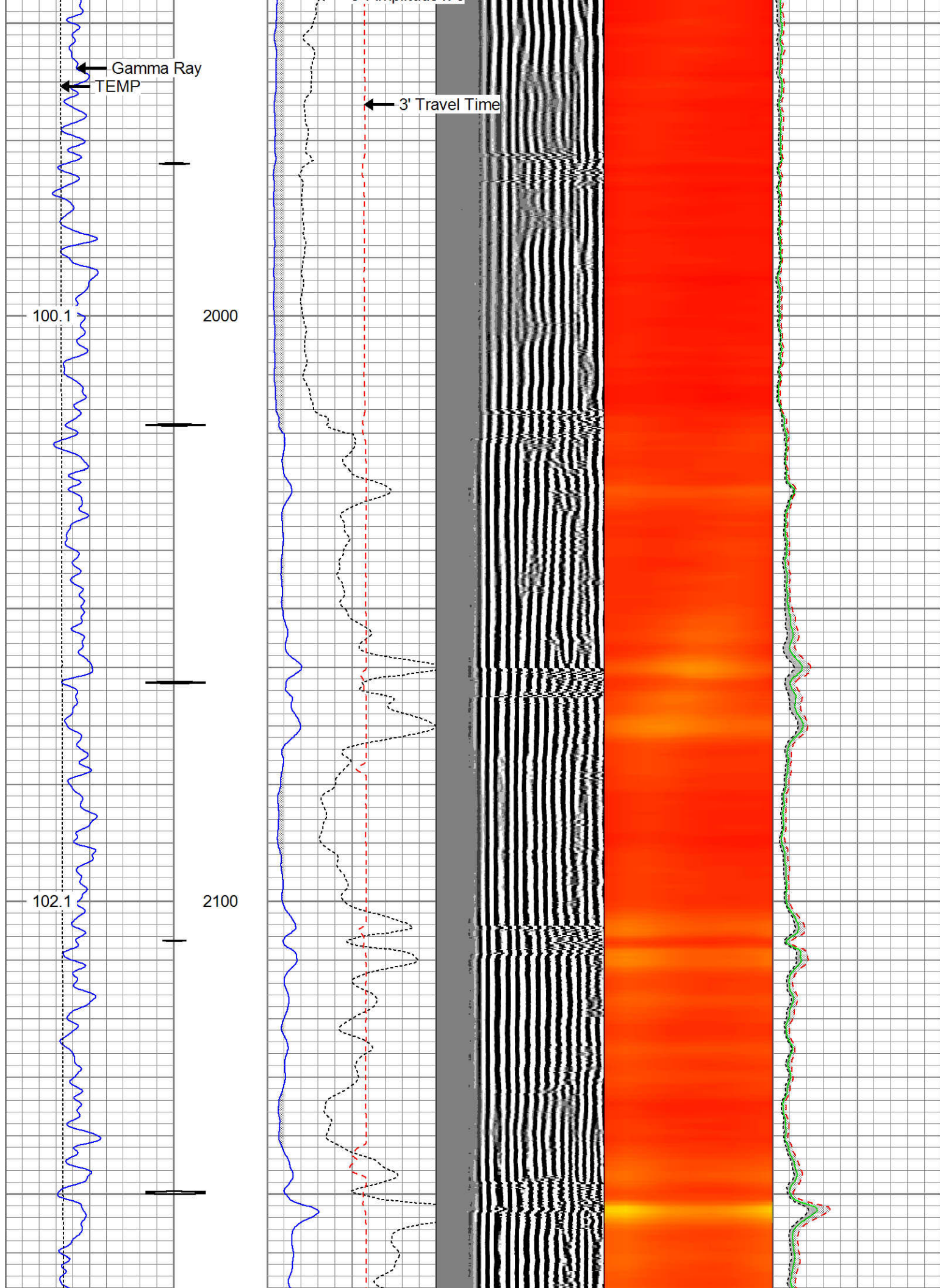


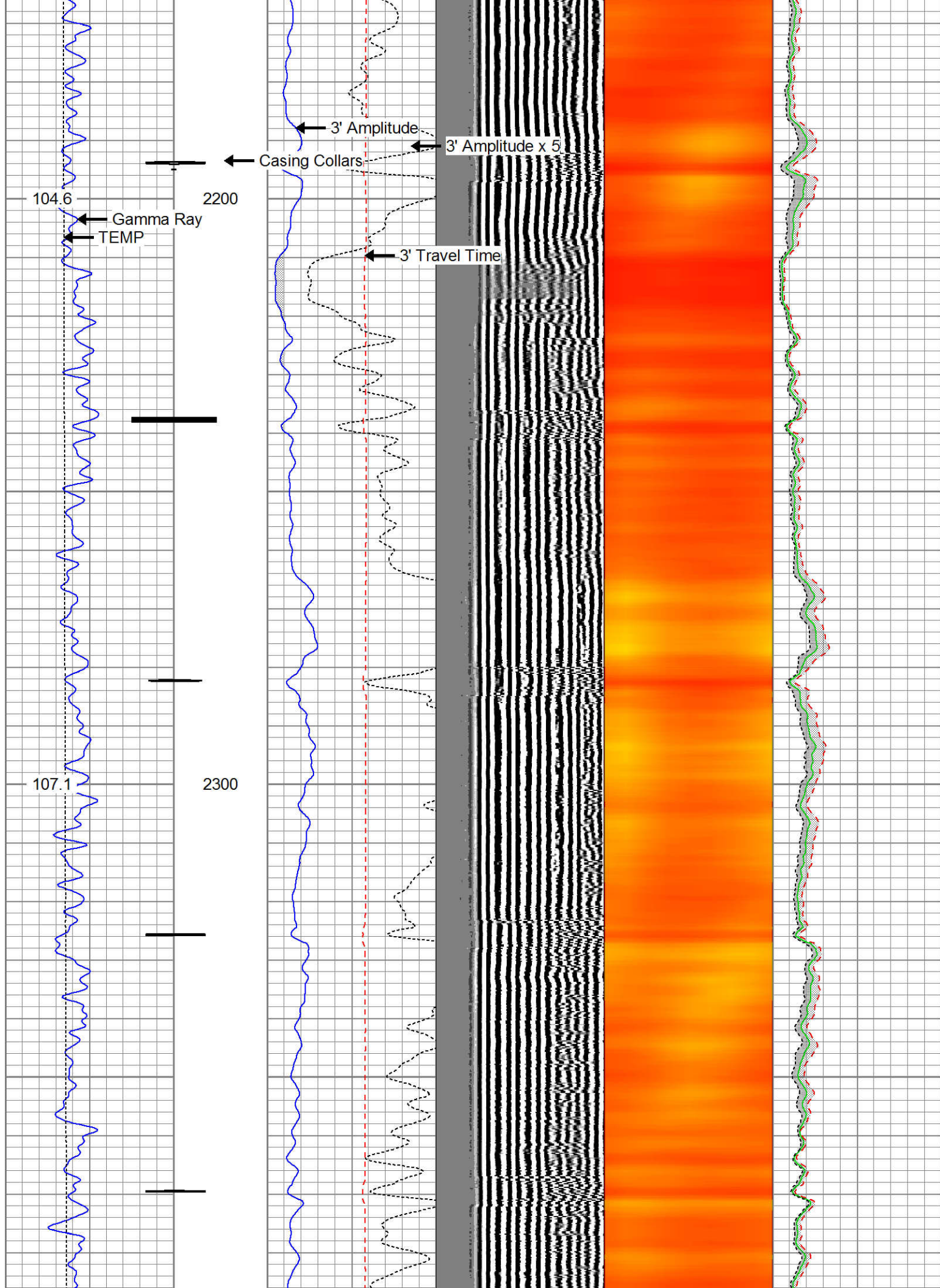




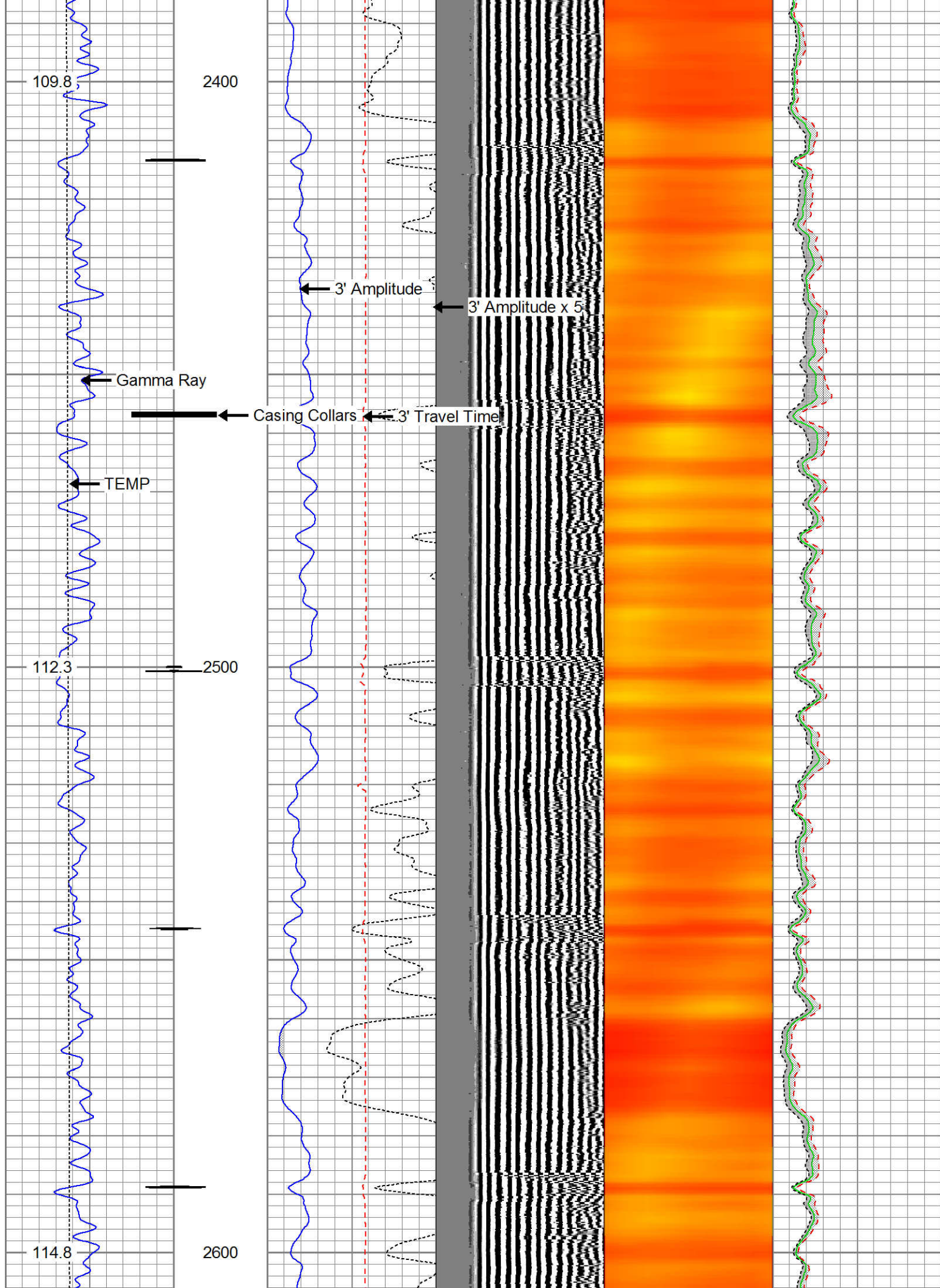




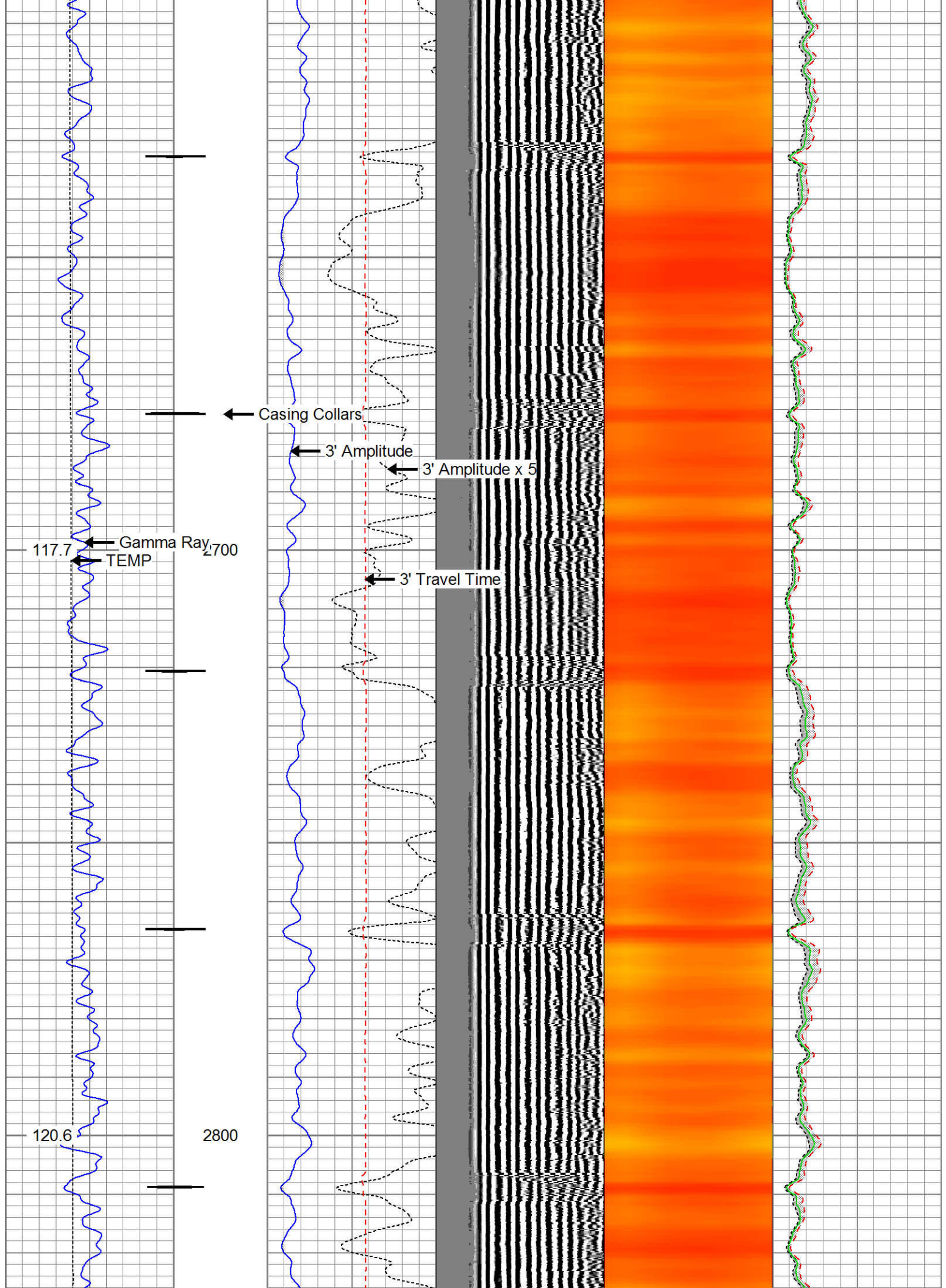




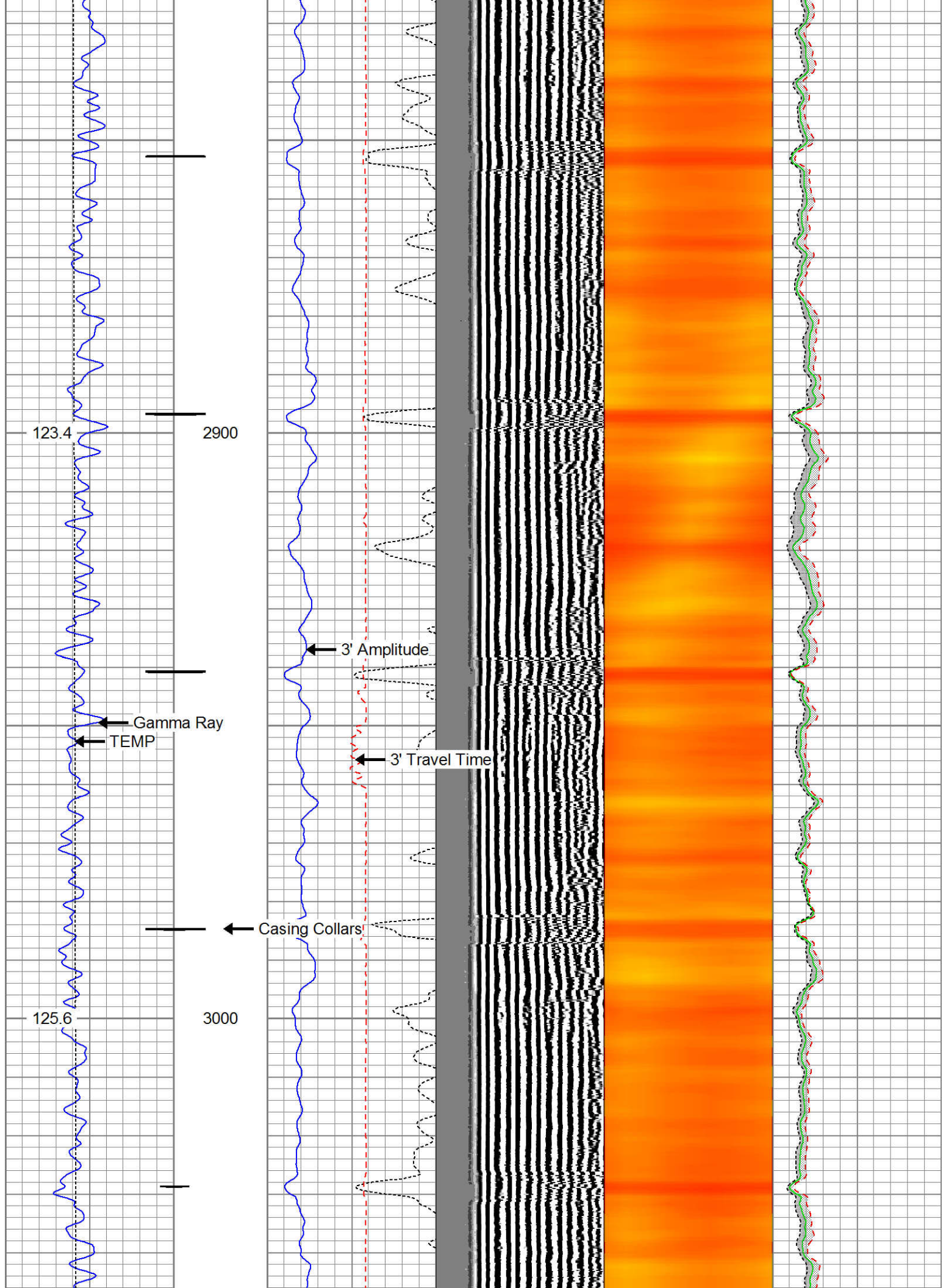




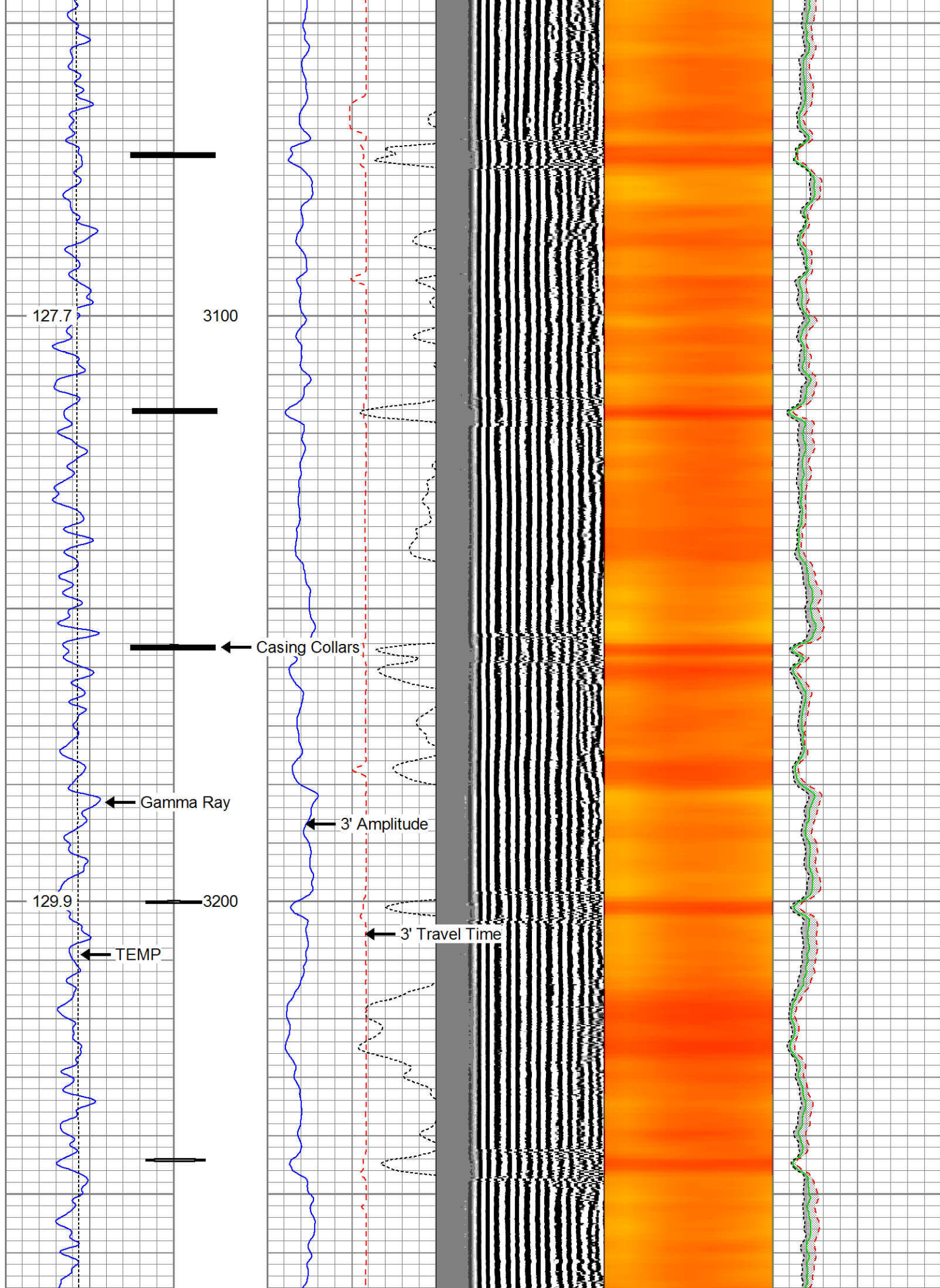




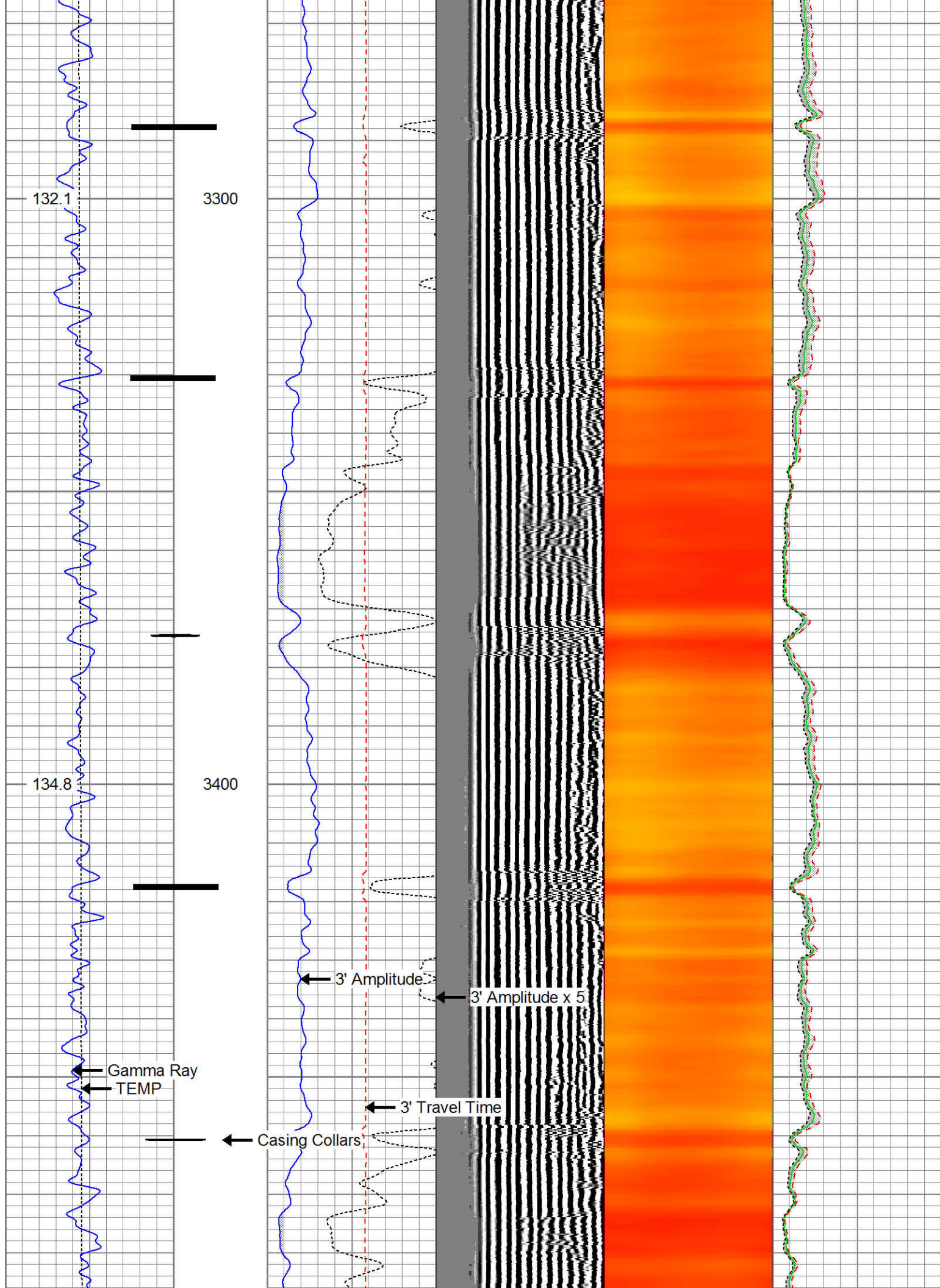


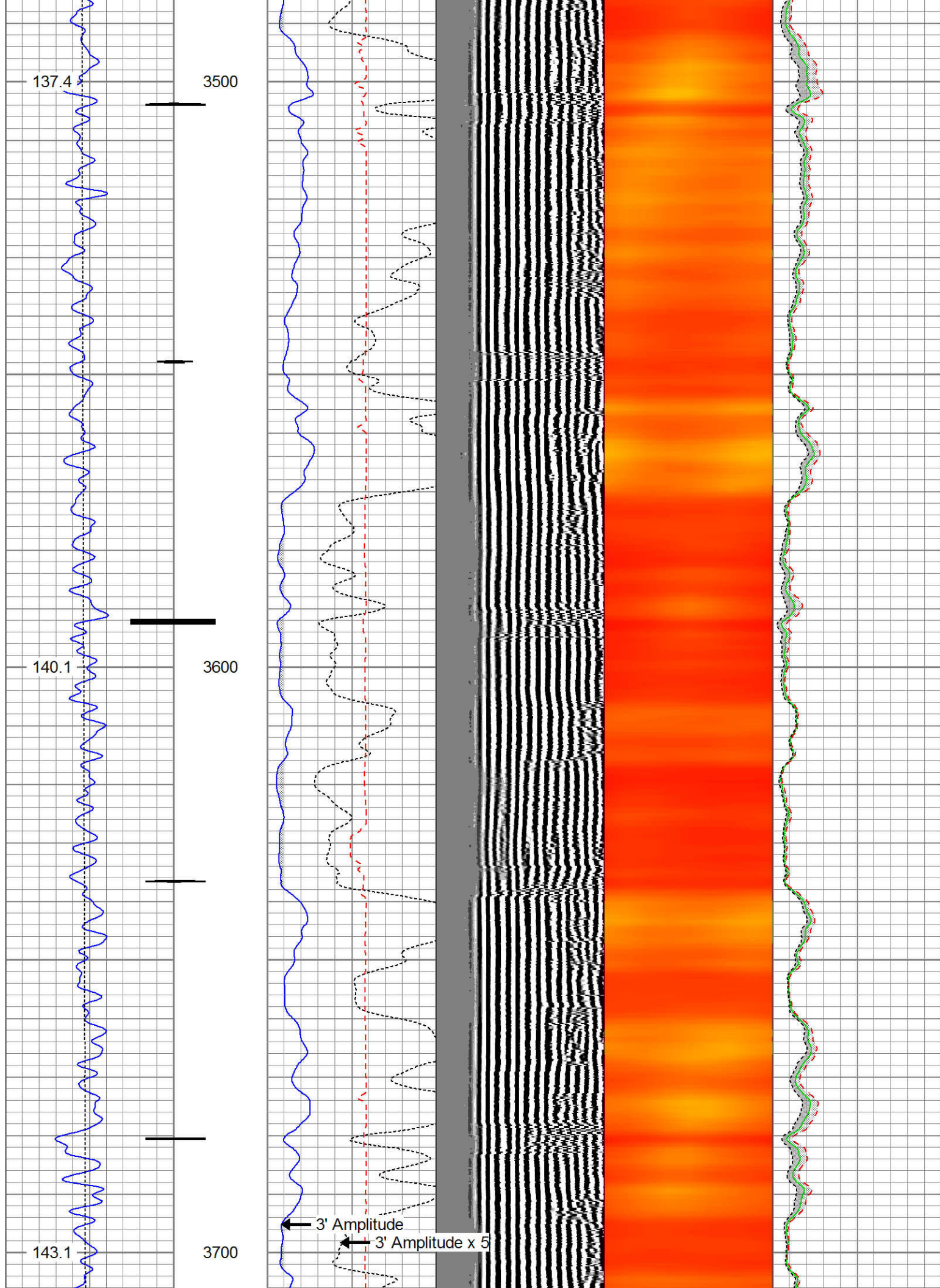




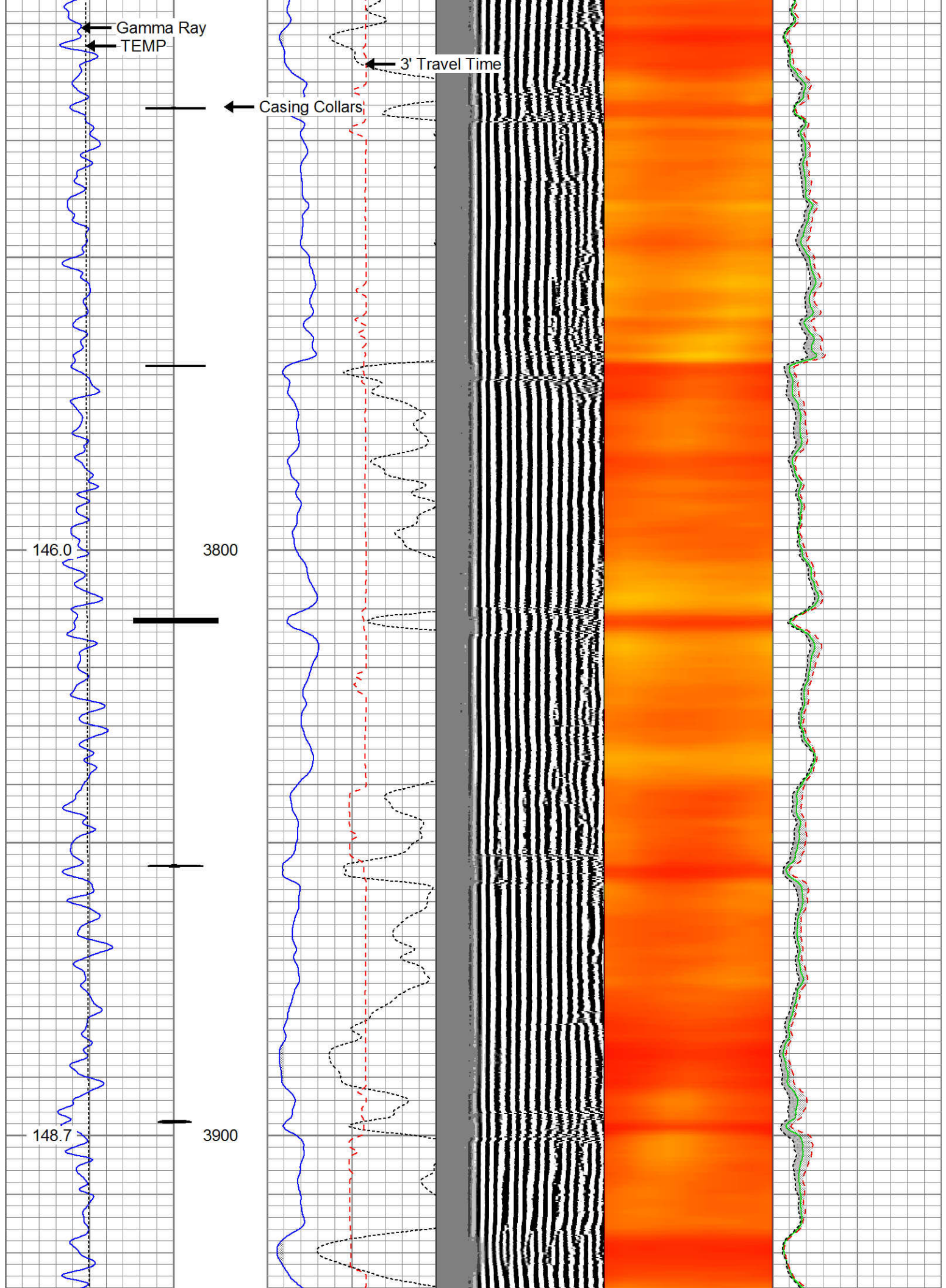




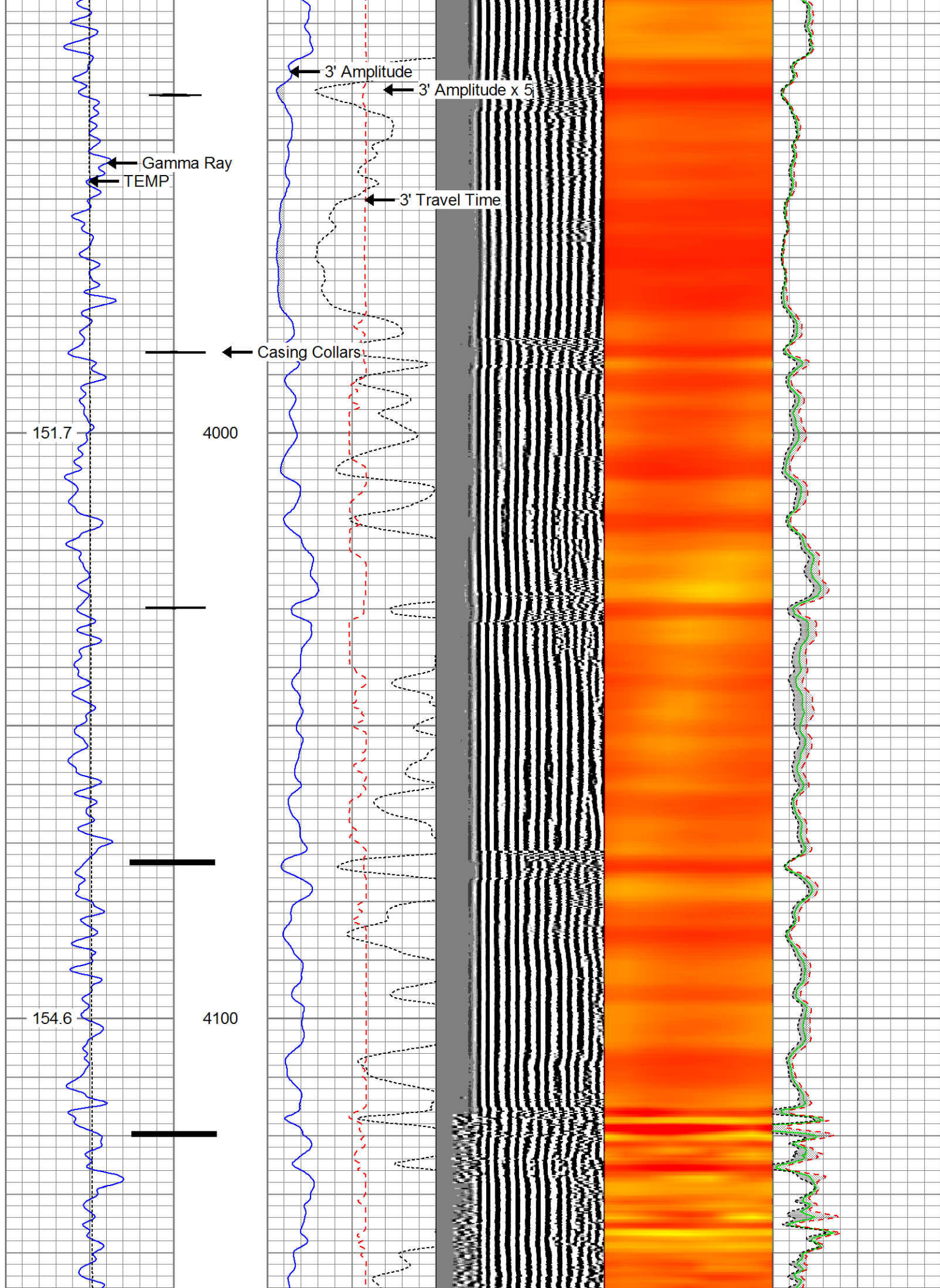




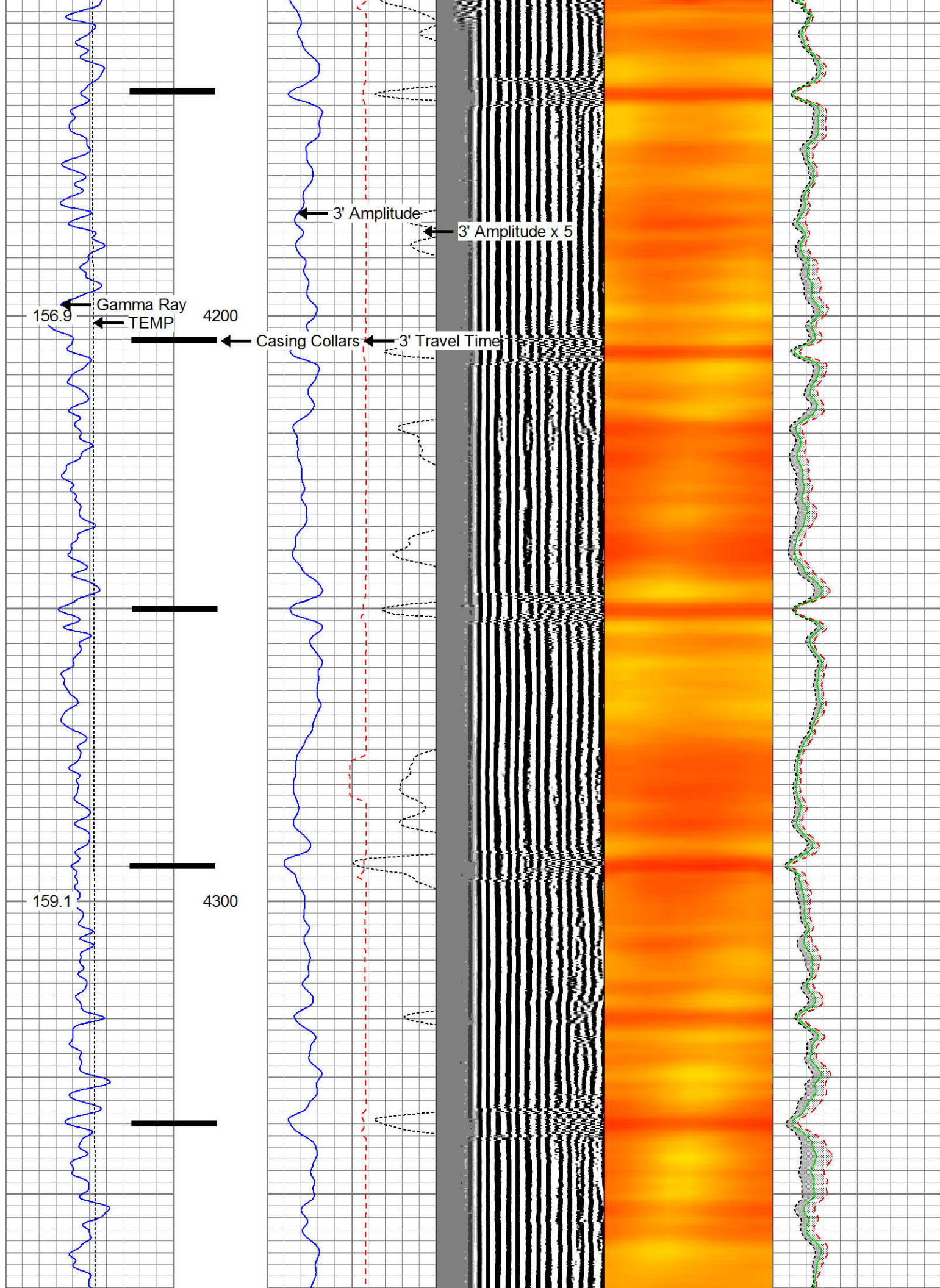




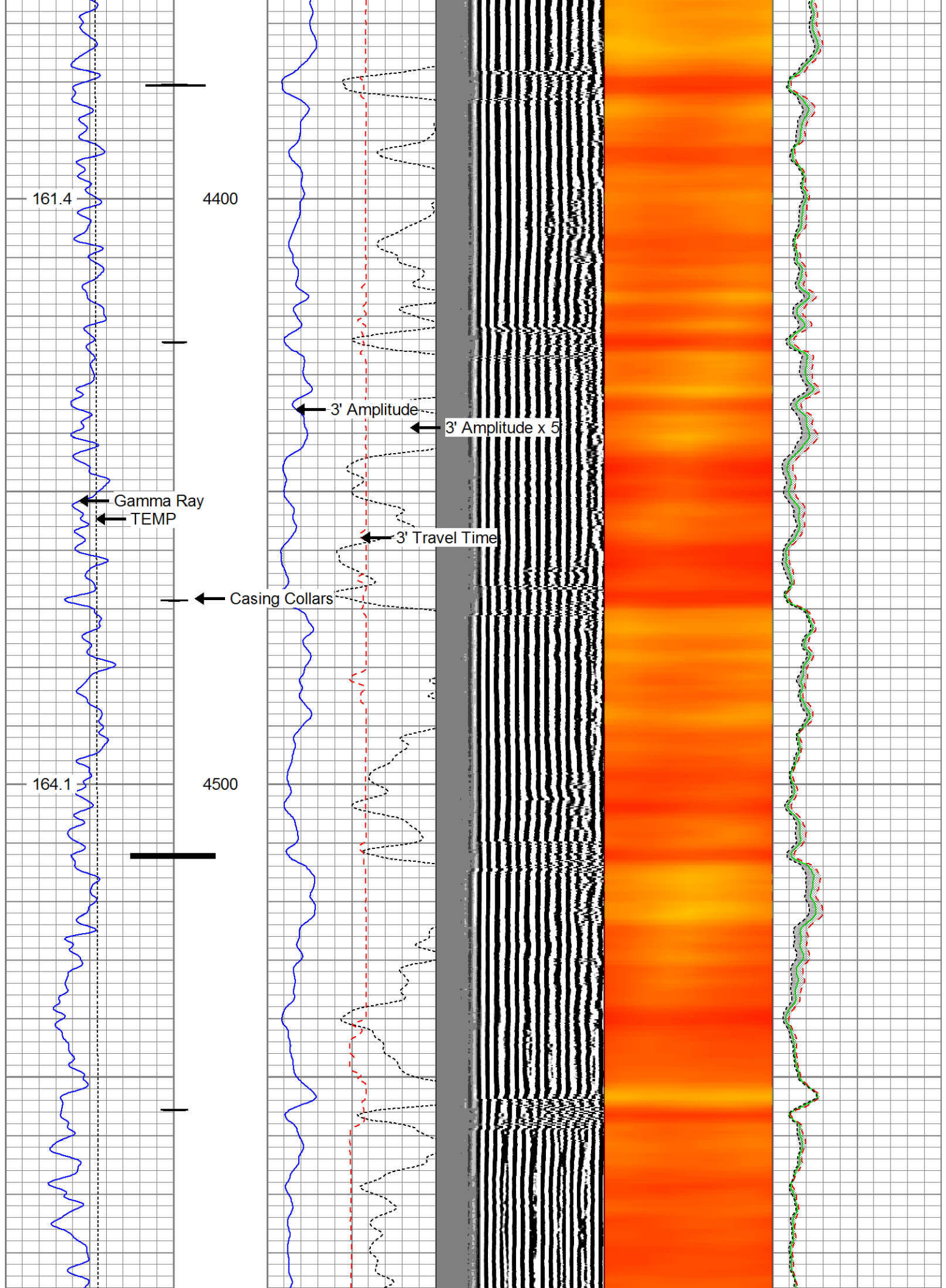




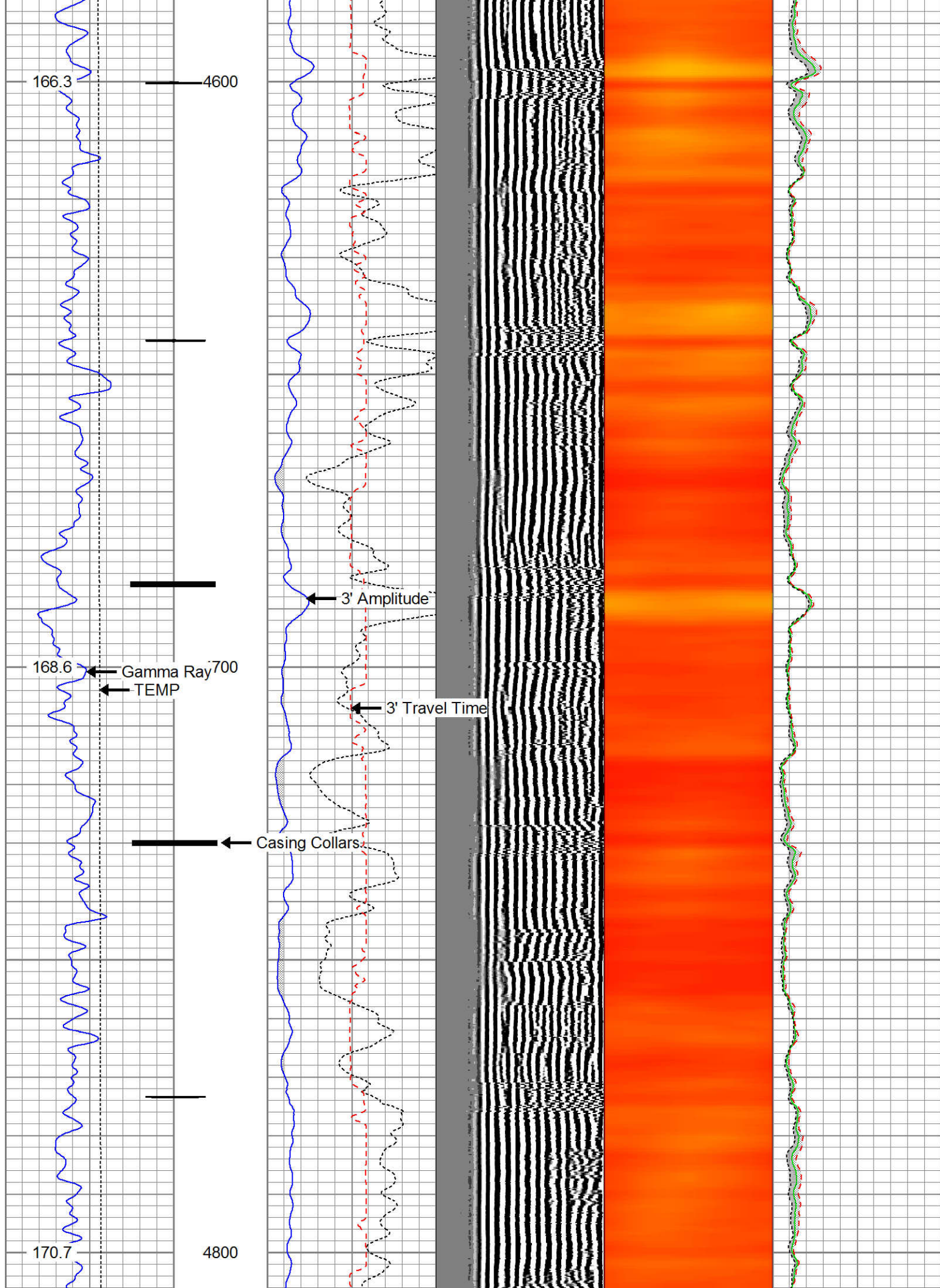


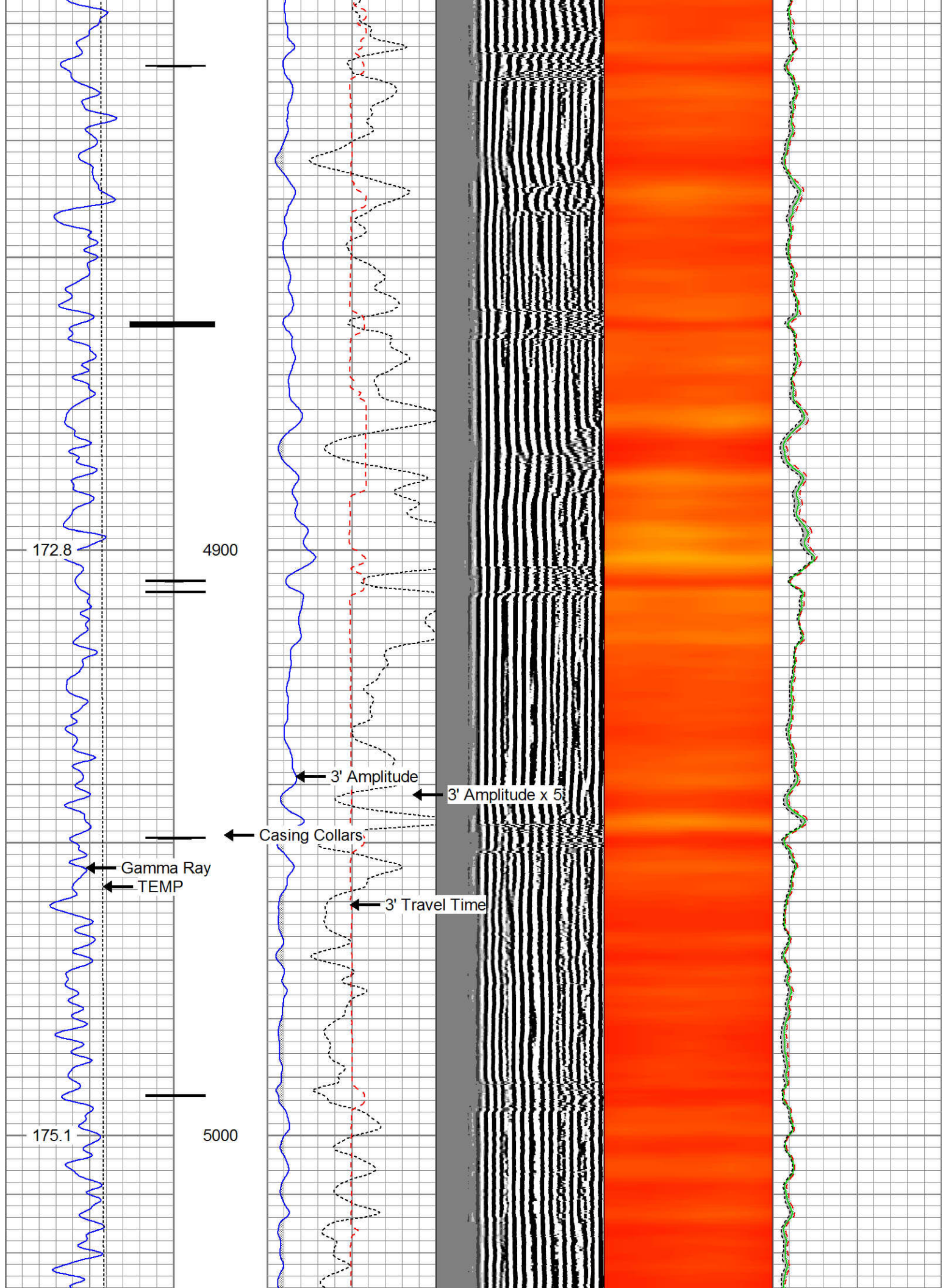




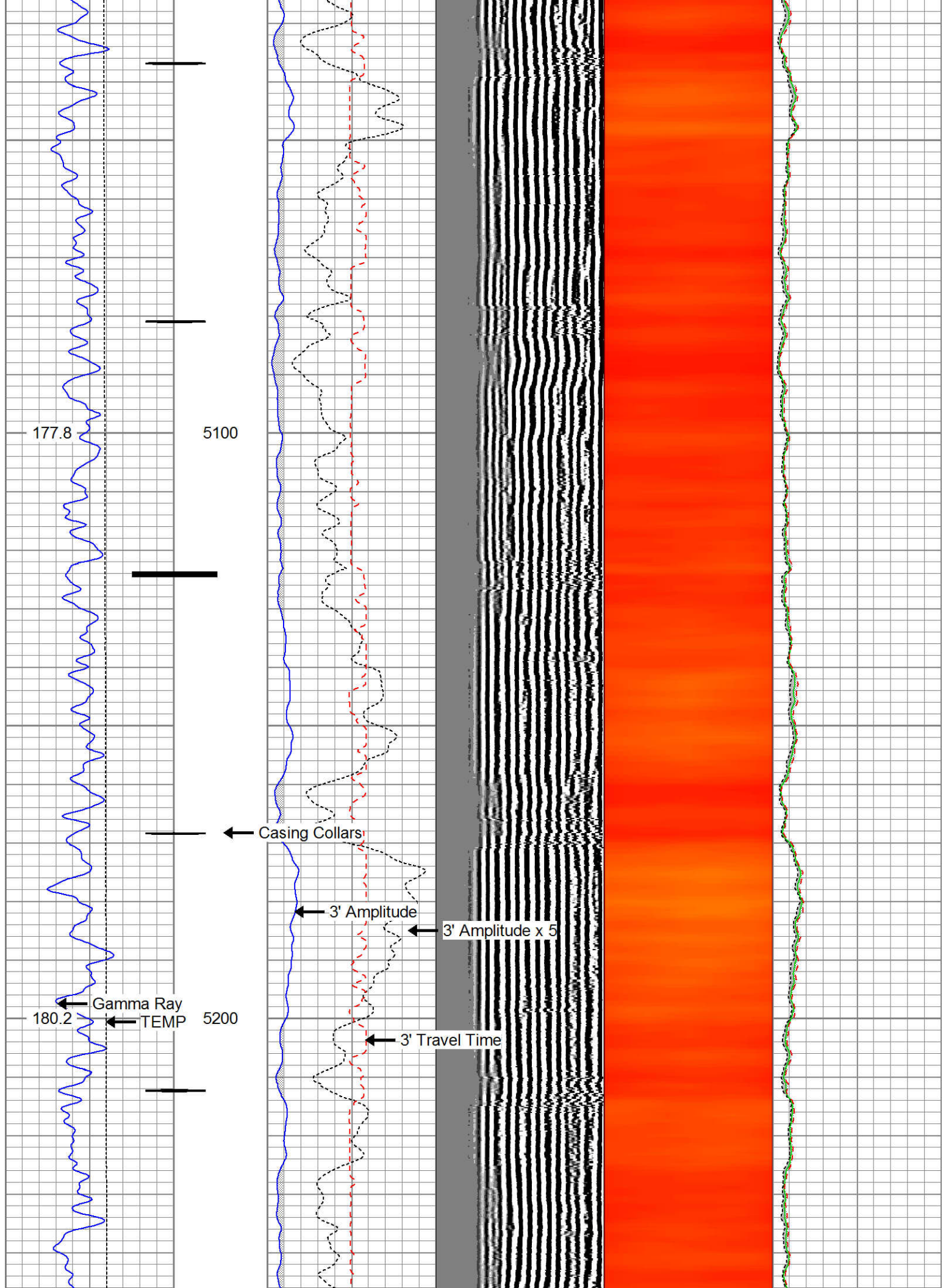


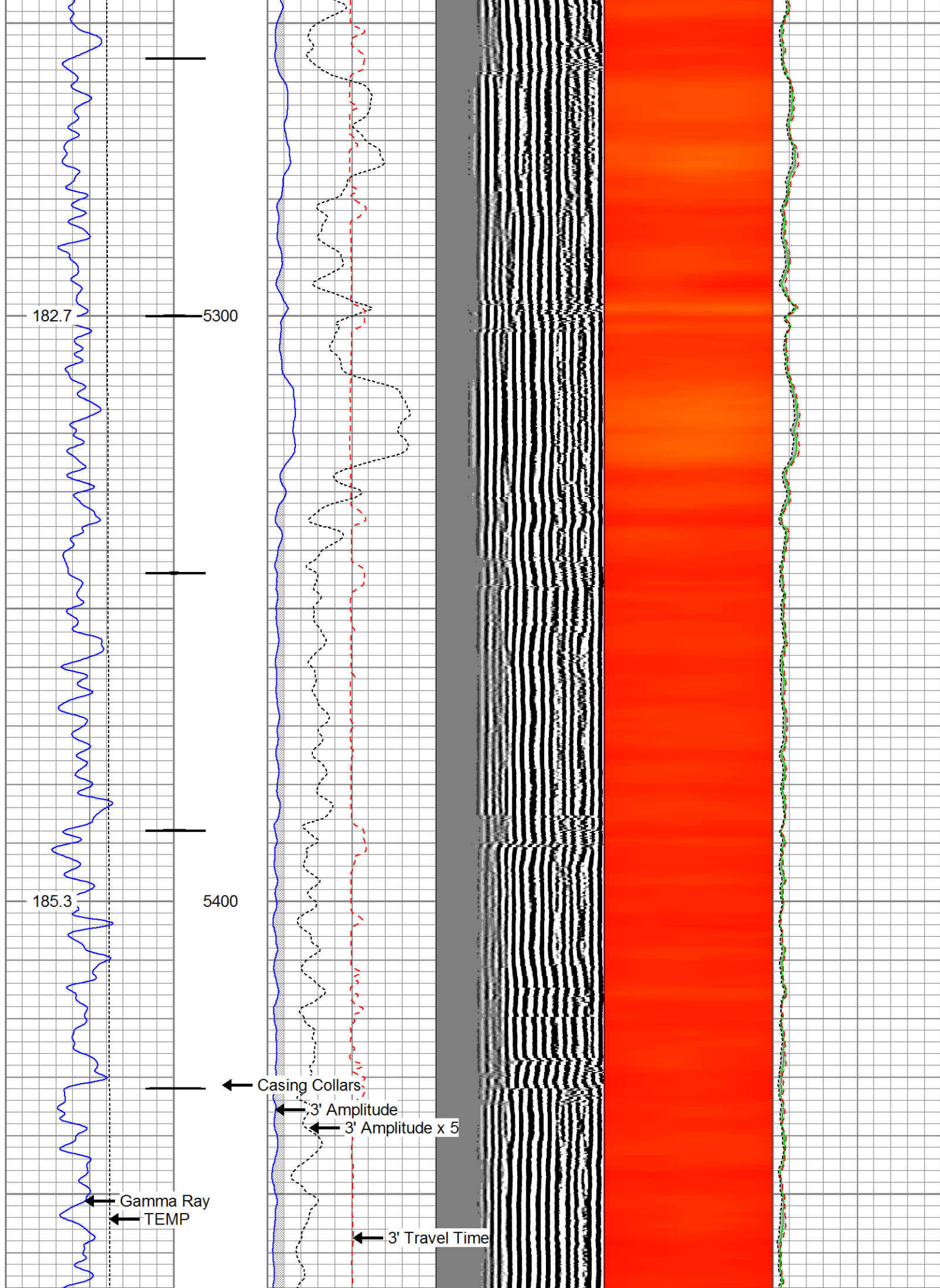




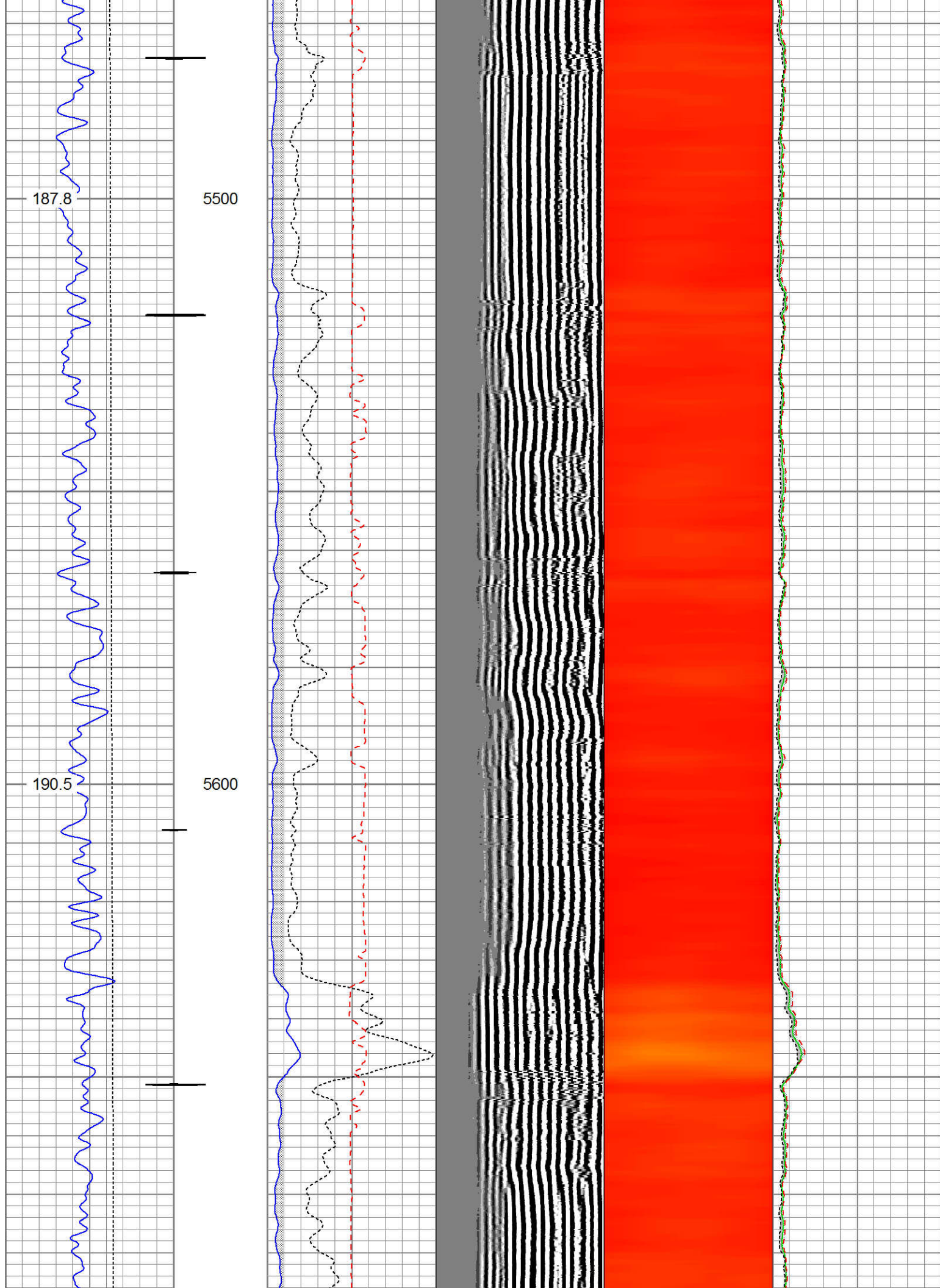


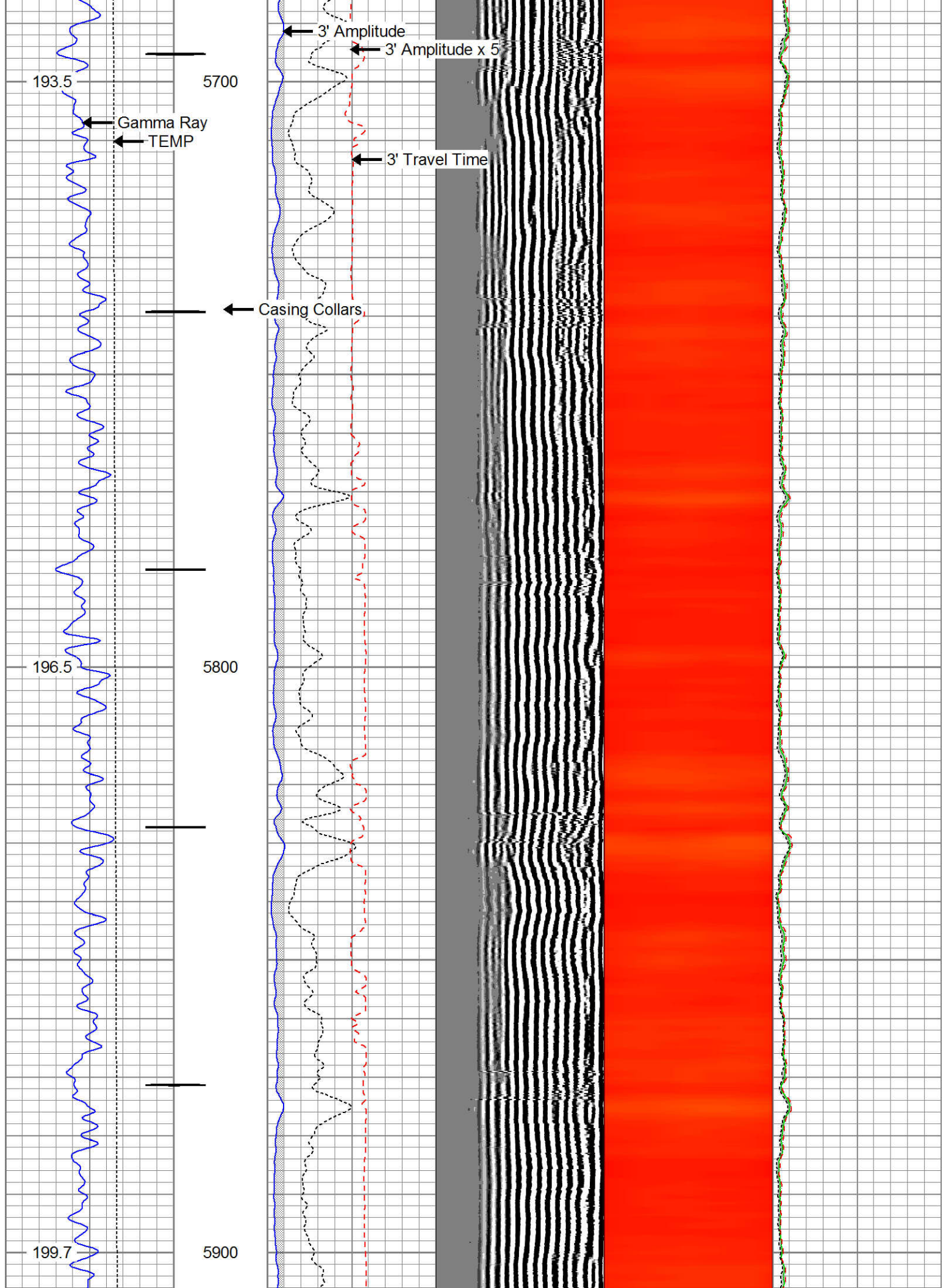




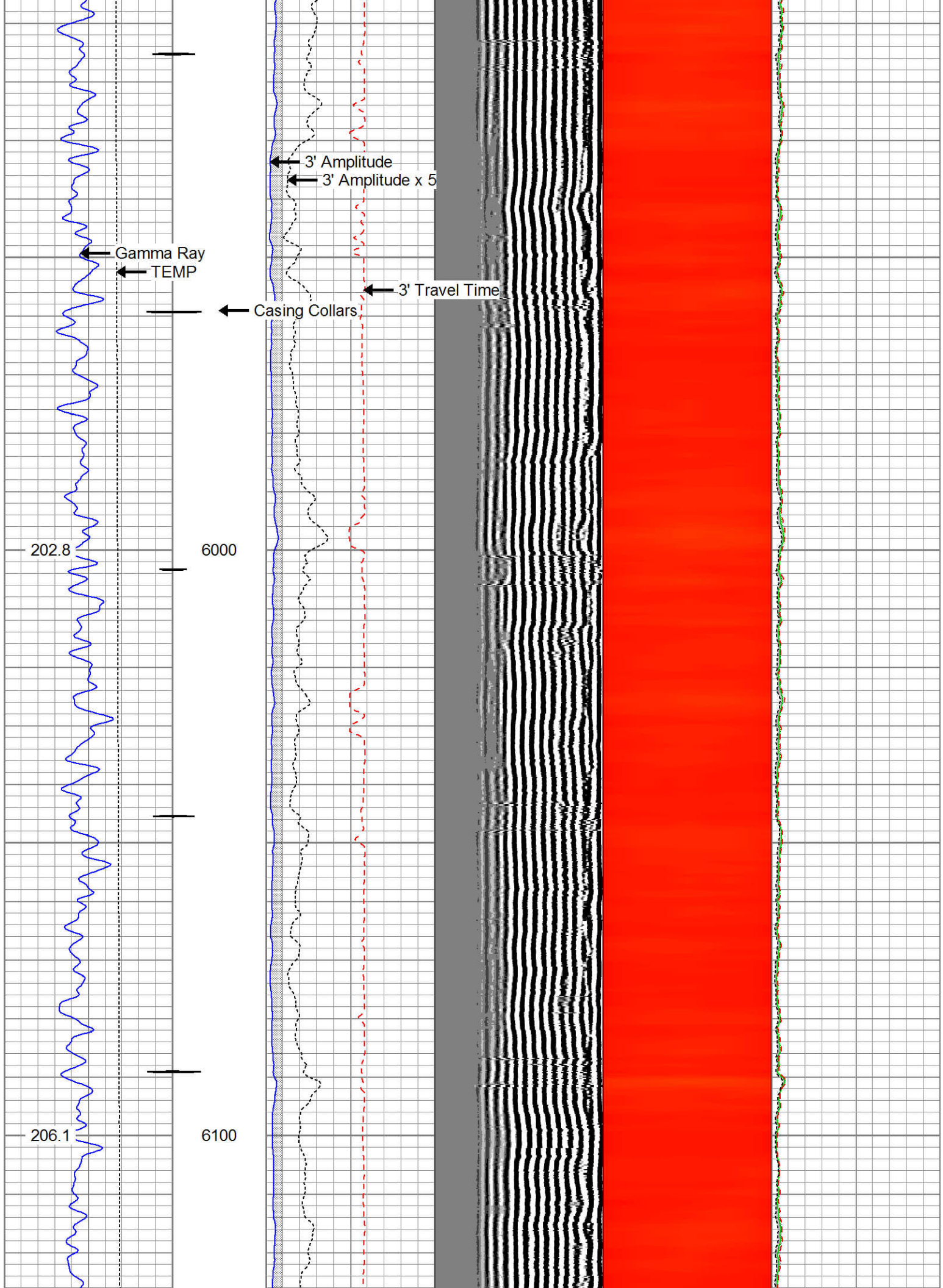


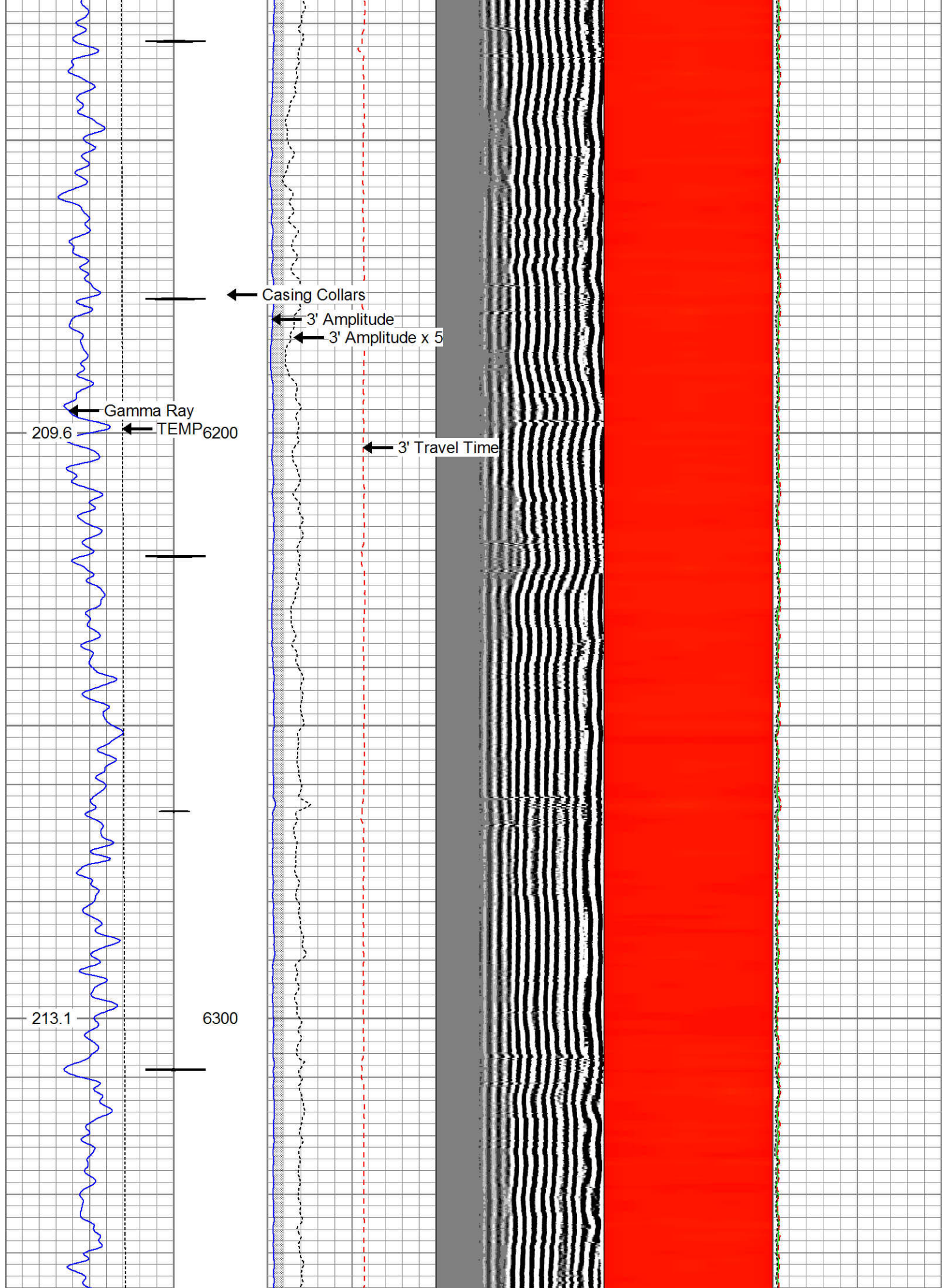




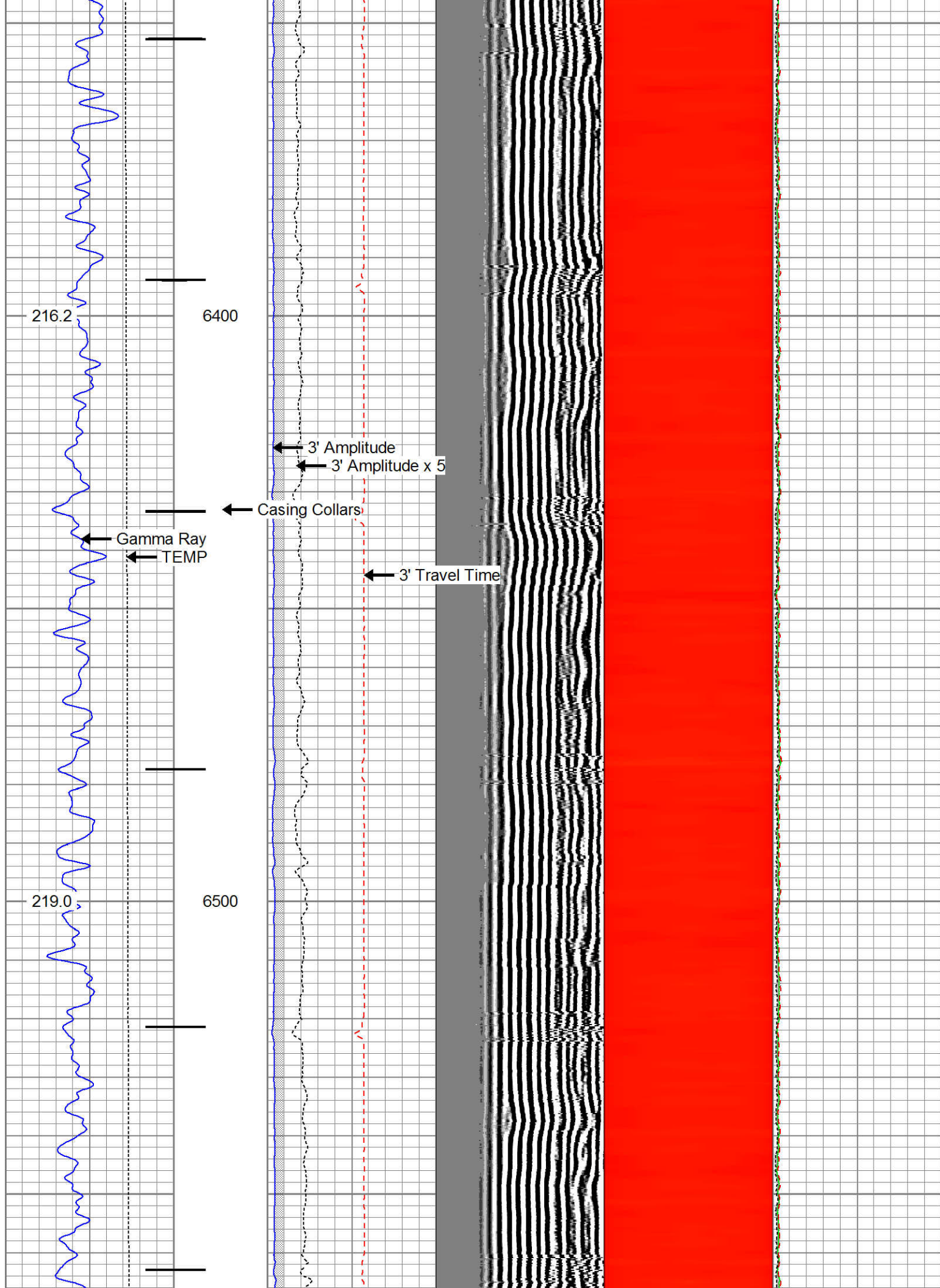


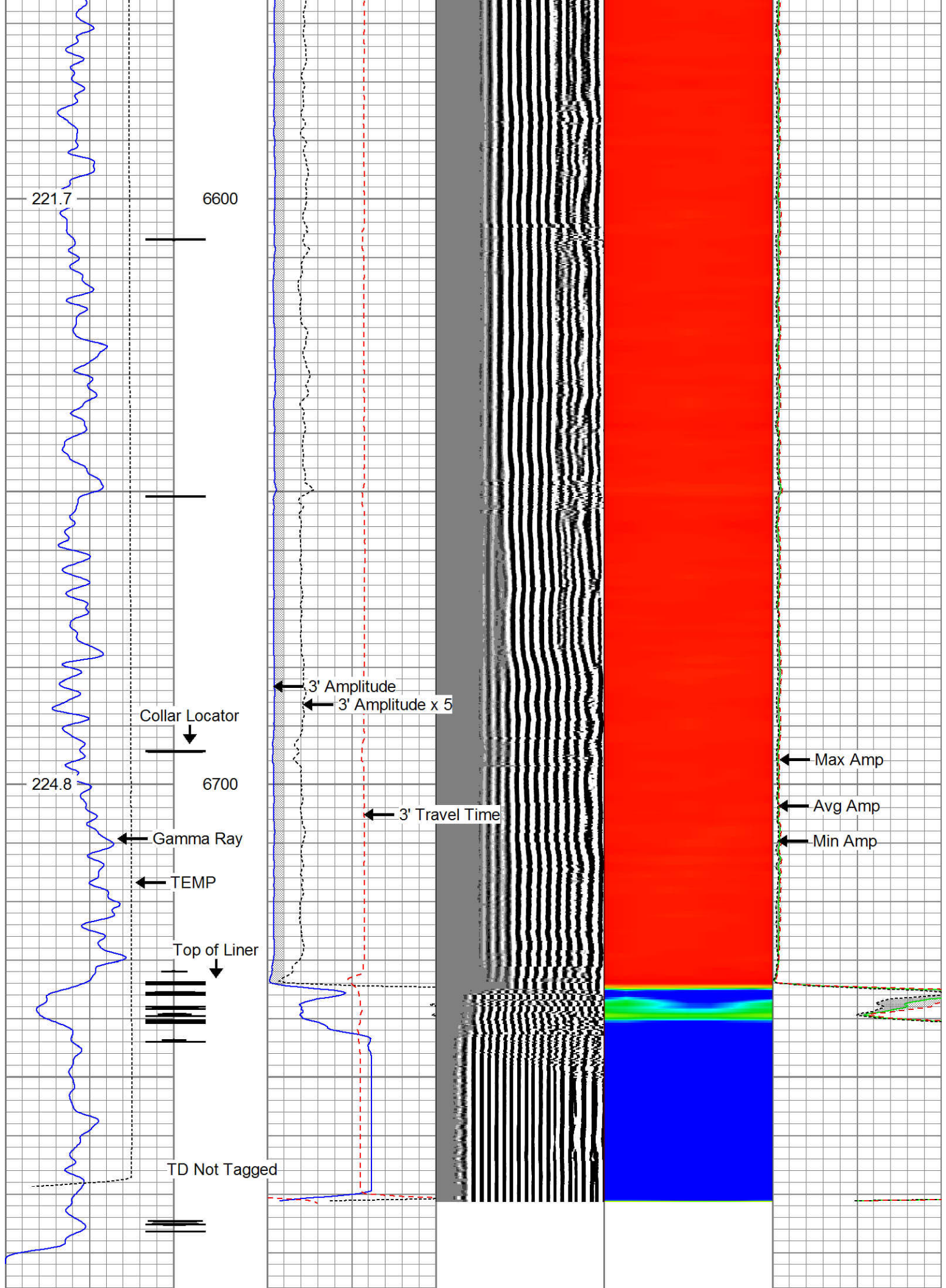












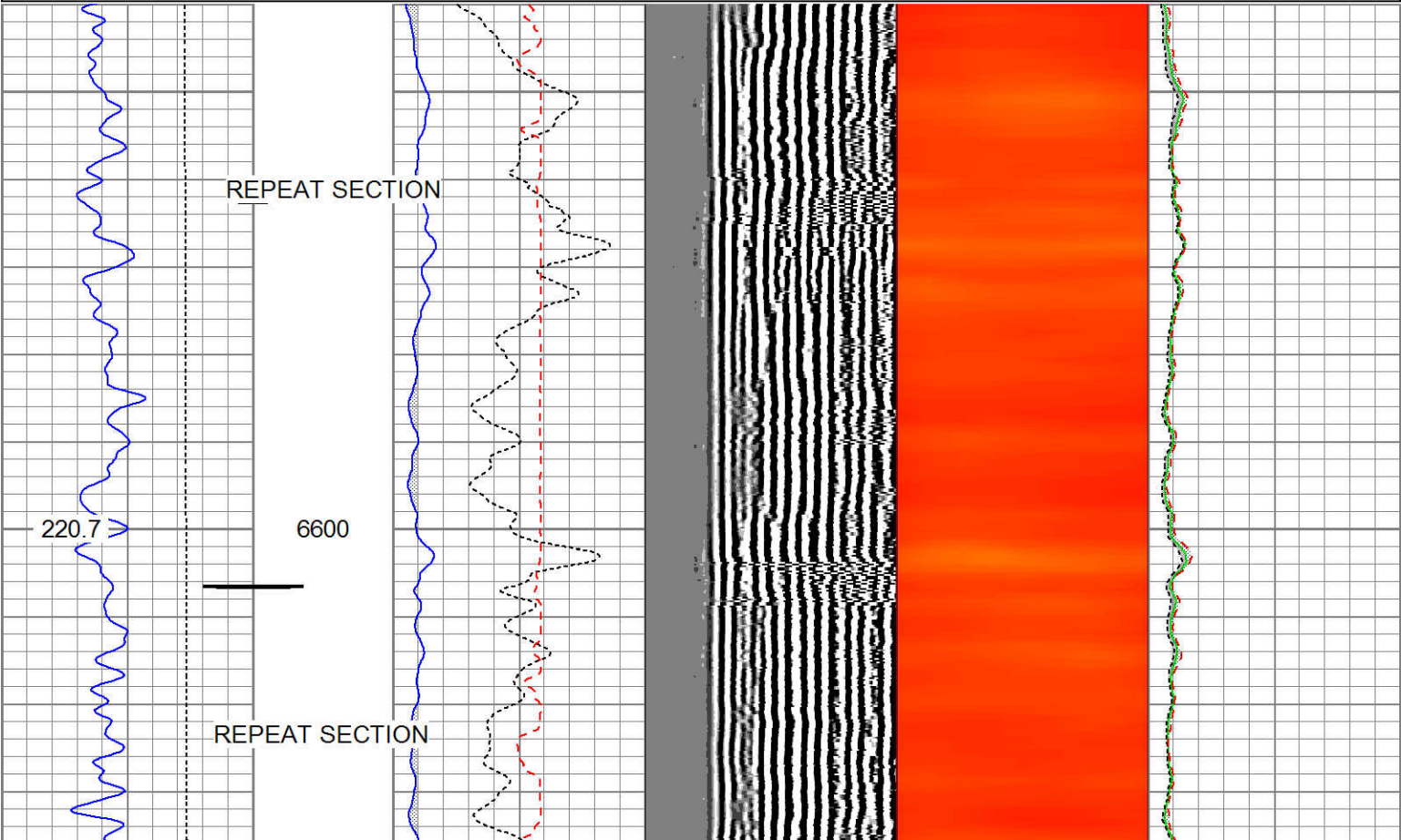


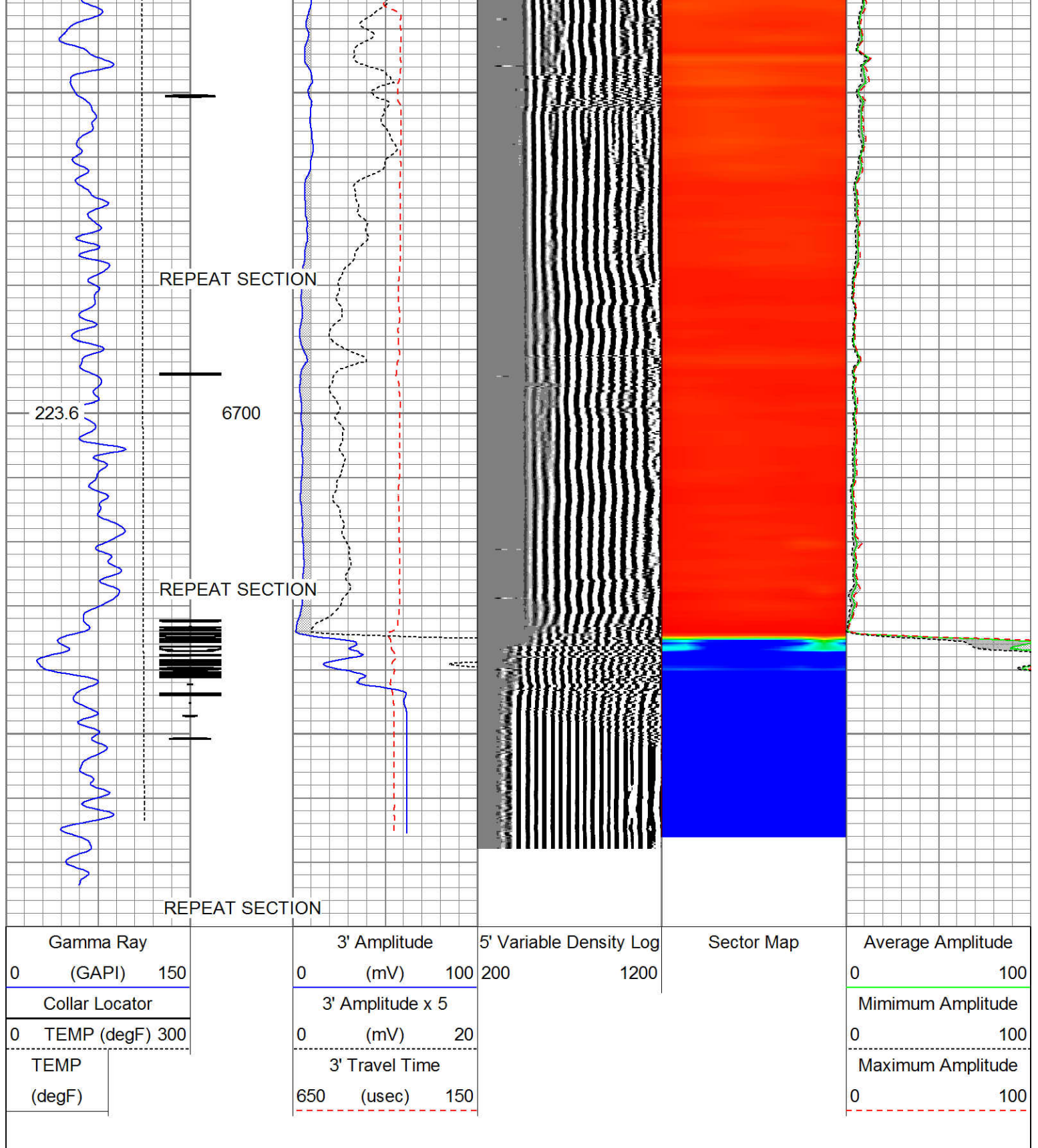
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|----------------|-----------------|------------------|------------|-------------------------|------------|-------------------|------|---|-----|
|                |                 |                  |            |                         |            |                   |      |   |     |
| Gamma Ray      |                 | 3' Amplitude     |            | 5' Variable Density Log | Sector Map | Average Amplitude |      |   |     |
| 0              | (GAPI) 150      | 0                | (mV) 100   |                         |            | 200               | 1200 | 0 | 100 |
| Collar Locator |                 | 3' Amplitude x 5 |            |                         |            | Minimum Amplitude |      |   |     |
| 0              | TEMP (degF) 300 | 0                | (mV) 20    | 5' Variable Density Log | Sector Map | 0                 | 100  |   |     |
| TEMP           |                 | 3' Travel Time   |            |                         |            | Maximum Amplitude |      |   |     |
| (degF)         |                 | 650              | (usec) 150 |                         |            | 0                 | 100  |   |     |
|                |                 |                  |            |                         |            |                   |      |   |     |

Repeat Pass 0 PSI

|                      |  |
|----------------------|--|
| Database File:       | kmg bydalek 29c-20hz.db                    |
| Dataset Pathname:    | 29may13/well/rcbl/pass8                    |
| Presentation Format: | rbt007                                     |
| Dataset Creation:    | Wed May 29 12:38:17 2013 by Log SCH 111116 |
| Charted by:          | Depth in Feet scaled 1:240                 |

|                |                 |                  |            |                         |            |                   |      |   |     |
|----------------|-----------------|------------------|------------|-------------------------|------------|-------------------|------|---|-----|
| Gamma Ray      |                 | 3' Amplitude     |            | 5' Variable Density Log | Sector Map | Average Amplitude |      |   |     |
| 0              | (GAPI) 150      | 0                | (mV) 100   |                         |            | 200               | 1200 | 0 | 100 |
| Collar Locator |                 | 3' Amplitude x 5 |            |                         |            | Minimum Amplitude |      |   |     |
| 0              | TEMP (degF) 300 | 0                | (mV) 20    | 5' Variable Density Log | Sector Map | 0                 | 100  |   |     |
| TEMP           |                 | 3' Travel Time   |            |                         |            | Maximum Amplitude |      |   |     |
| (degF)         |                 | 650              | (usec) 150 |                         |            | 0                 | 100  |   |     |
|                |                 |                  |            |                         |            |                   |      |   |     |





| Sensor | Offset (ft) | Schematic | Description   | Len (ft) | OD (in) | Wt (lb) |
|--------|-------------|-----------|---|----------|---------|---------|
|        |             |           | Titan_1_11_16   | 1.04     | 1.69    | 5.00    |
|        |             |           | Probe_IL_BS_Cent<br>Probe 2-3/4" Inline Electrical Inline Bowspring Centralizer | 2.88     | 2.75    | 10.00   |



|  |       |  |   |      |        |
|--|-------|--|---|------|--------|
| Temp   | 16.68 |  |   |      |        |
| WVF3FT   | 14.57 |  | Probe_RADII-C-2-3/4" (FW1302-001in7")           | 9.21 | 2.75   |
| WVFCAL   | 14.57 |  | Probe 2-3/4" Sector Cement Bond Tool with       |      | 100.00 |
| WVFS1  | 14.57 |  | Temperature Probe                               |      |        |
| WVFS2  | 14.57 |  |   |      |        |
| WVFS3  | 14.57 |  |   |      |        |
| WVFS4  | 14.57 |  |   |      |        |
| WVFS5  | 14.57 |  |   |      |        |
| WVFS6  | 14.57 |  |   |      |        |
| WVFS7  | 14.57 |  |   |      |        |
| WVFS8  | 14.57 |  |   |      |        |
| WVF5FT   | 13.57 |  |   |      |        |
| RHeadVolt  | 10.34 |  |   |      |        |
|  |       |  | Probe_IL_BS_Cent                                | 2.88 | 2.75   |
|  |       |  | Probe 2-3/4" Inline Electrical Inline Bowspring |      | 10.00  |
|  |       |  | Centralizer                                     |      |        |
| CCL  | 6.59  |  |   |      |        |
| DCCL   | 6.59  |  |   |      |        |
| GR   | 5.25  |  | Probe_CCL_GR-2.75"Digital (FW1302-12C4.58)      | 2.75 | 55.00  |
|  |       |  | Probe 2-3/4" Digital CCL / Gamma Ray            |      |        |
|  |       |  | Combined  |      |        |
|  |       |  | Probe_IL_BS_Cent                                | 2.88 | 2.75   |
|  |       |  | Probe 2-3/4" Inline Electrical Inline Bowspring |      | 10.00  |
|  |       |  | Centralizer                                     |      |        |
| Dataset: anadarko hudson 13n-35hz-rbl.db: field/well/run1/proc2<br>Total Length: 23.47 ft<br>Total Weight: 190.00 lb<br>O.D. 2.75 in |       |  |   |      |        |

| Calibration Report           |  |
|------------------------------|--|
| Database File:               | kmg bydalek 29c-20hz.db                    |
| Dataset Pathname:            | 29may13/well/rcbl/pass9                    |
| Dataset Creation:            | Wed May 29 12:46:04 2013 by Log SCH 111116 |
| Gamma Ray Calibration Report |  |
| Serial Number:               | FW1211-026                                 |
| Tool Model:                  | 2.75"Digital                               |

Performed: Tue May 21 11:02:45 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.5 cps

Sensitivity: 0.5800 GAPI/cps

### Segmented Cement Bond Log Calibration Report

Serial Number: FW1302-002in4.5"

Tool Model: 2-3/4"

Calibration Casing Diameter: 7.000 in

Calibration Depth: 318.654 ft

Master Calibration, performed Wed May 29 10:11:40 2013:

|     | Raw (v) |       | Calibrated (mv) |        | Results |        |
|-----|---------|-------|-----------------|--------|---------|--------|
|     | Zero    | Cal   | Zero            | Cal    | Gain    | Offset |
| 3'  | -0.003  | 2.489 | 0.000           | 62.165 | 24.950  | 0.069  |
| CAL | -0.002  | 0.596 |                 |        |         |        |
| 5'  | 0.003   | 2.461 | 0.000           | 62.165 | 25.293  | -0.085 |
| SUM |         |       |                 |        |         |        |
| S1  | 0.002   | 0.442 | 0.000           | 72.165 | 164.024 | -0.350 |
| S2  | -0.002  | 0.437 | 0.000           | 72.165 | 164.084 | 0.385  |
| S3  | -0.003  | 0.427 | 0.000           | 72.165 | 167.872 | 0.512  |
| S4  | -0.004  | 0.412 | 0.000           | 72.165 | 173.702 | 0.613  |
| S5  | -0.004  | 0.407 | 0.000           | 72.165 | 175.825 | 0.627  |
| S6  | -0.003  | 0.406 | 0.000           | 72.165 | 176.187 | 0.585  |
| S7  | -0.004  | 0.408 | 0.000           | 72.165 | 175.257 | 0.616  |
| S8  | -0.003  | 0.438 | 0.000           | 72.165 | 163.657 | 0.493  |

Internal Reference Calibration, performed Wed May 29 10:12:41 2013:

|     | Raw (v) |       | Calibrated (v) |       | Results |        |
|-----|---------|-------|----------------|-------|---------|--------|
|     | Zero    | Cal   | Zero           | Cal   | Gain    | Offset |
| CAL | -0.002  | 0.602 | -0.002         | 0.596 | 0.990   | -0.000 |

Air Zero Calibration, performed Wed May 29 10:12:03 2013:

|     | Raw (v) |  | Calibrated (v) |  | Results |  |
|-----|---------|--|----------------|--|---------|--|
|     | Zero    |  | Zero           |  | Offset  |  |
| 3'  | -0.003  |  | 0.000          |  | 0.000   |  |
| 5'  | 0.003   |  | 0.000          |  | 0.001   |  |
| SUM |         |  |                |  |         |  |
| S1  | 0.002   |  | 0.000          |  | -0.000  |  |
| S2  | -0.002  |  | 0.000          |  | -0.000  |  |
| S3  | -0.003  |  | 0.000          |  | -0.000  |  |
| S4  | -0.003  |  | 0.000          |  | -0.000  |  |
| S5  | -0.003  |  | 0.000          |  | -0.000  |  |
| S6  | -0.003  |  | 0.000          |  | -0.000  |  |
| S7  | -0.003  |  | 0.000          |  | -0.000  |  |
| S8  | -0.003  |  | 0.000          |  | 0.000   |  |





|        |                  |
|--------|------------------|
| Well   | Bydalek 29C-20HZ |
| Field  | Wattenberg       |
| County | Weld             |
| State  | Colorado         |