



## DUAL INDUCTION LL3/GR LOG

|                              |               |                             |  |
|------------------------------|---------------|-----------------------------|--|
| Company C & G DRILLING, INC  |               | Company C & G DRILLING, INC |  |
| Well                         | HALL C # 1    | Well HALL C # 1             |  |
| Field                        | HAZLETT       | Field HAZLETT               |  |
| County                       | BUTLER        | County BUTLER               |  |
| State                        | KANSAS        | State KANSAS                |  |
| Location:                    |               | API # : 15-015-24200-00-00  |  |
| Permanent Datum              |               | CDLN                        |  |
| Log Measured From            |               | MICRO                       |  |
| Drilling Measured From       |               | Elevation                   |  |
| SEC 2 TWP 24S RGE 4E         |               | K.B. 1427                   |  |
|                              |               | D.F. 1426                   |  |
|                              |               | G.L. 1418                   |  |
| Elevation 1418               |               |                             |  |
| Date 3-12-2023               |               |                             |  |
| Run Number                   | ONE           |                             |  |
| Depth Driller                | 2700          |                             |  |
| Depth Logger                 | 2699          |                             |  |
| Bottom Logged Interval       | 2697          |                             |  |
| Top Log Interval             | 200           |                             |  |
| Casing Driller               | 8.625" @ 202  |                             |  |
| Casing Logger                | 8.625" @ 211  |                             |  |
| Bit Size                     | 7.875"        |                             |  |
| Type Fluid in Hole           | MUD           |                             |  |
| Density / Viscosity          |               |                             |  |
| pH / Fluid Loss              |               |                             |  |
| Source of Sample             |               |                             |  |
| Rm @ Meas. Temp              |               |                             |  |
| Rmf @ Meas. Temp             |               |                             |  |
| Rmc @ Meas. Temp             |               |                             |  |
| Source of Rmf / Rmc          |               |                             |  |
| Rm @ BHT                     |               |                             |  |
| Time Circulation Stopped     |               |                             |  |
| Time Logger on Bottom        | 6:30 AM       |                             |  |
| Maximum Recorded Temperature | 102           |                             |  |
| Equipment Number             | OW2           |                             |  |
| Location                     | HOMINY, OK    |                             |  |
| Recorded By                  | SHELDON TYLER |                             |  |
| Witnessed By                 | MR. STOUT     | MR. WOLFE                   |  |

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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

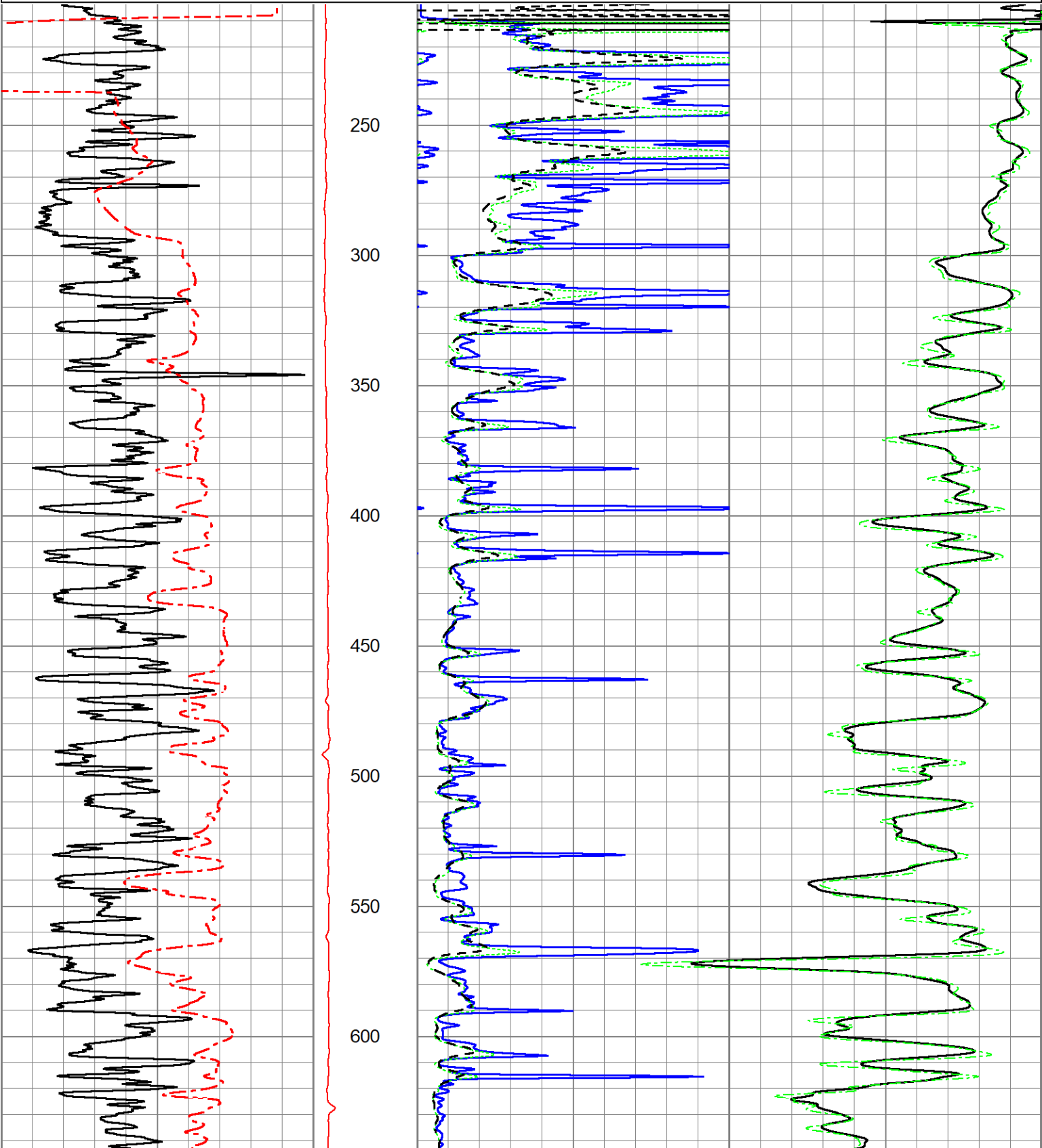
FILE # OW2-9178 C&G DRILLING  
KIDD, LUKE  
THANK YOU FOR USING OSAGE WIRELINE

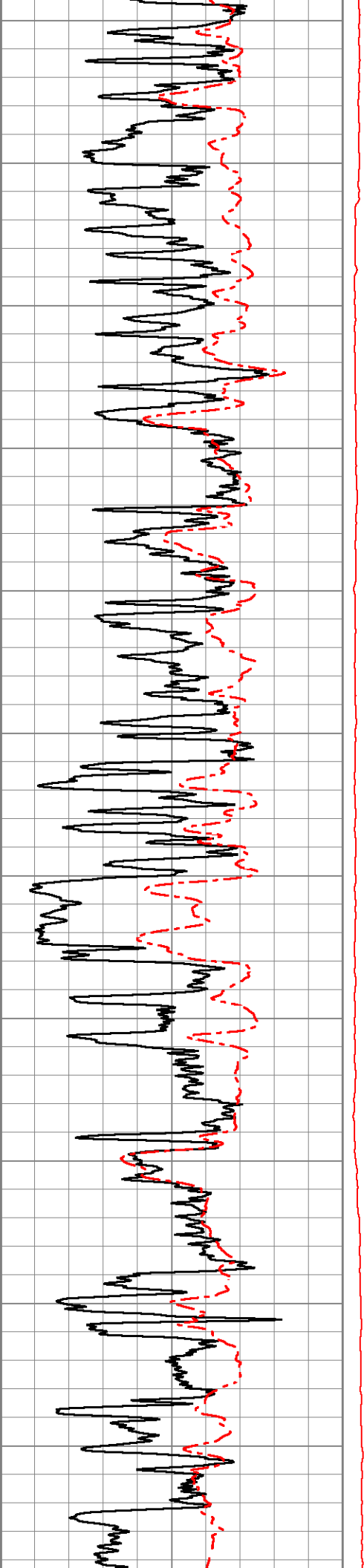


# 2" DUAL INDUCTION LOG

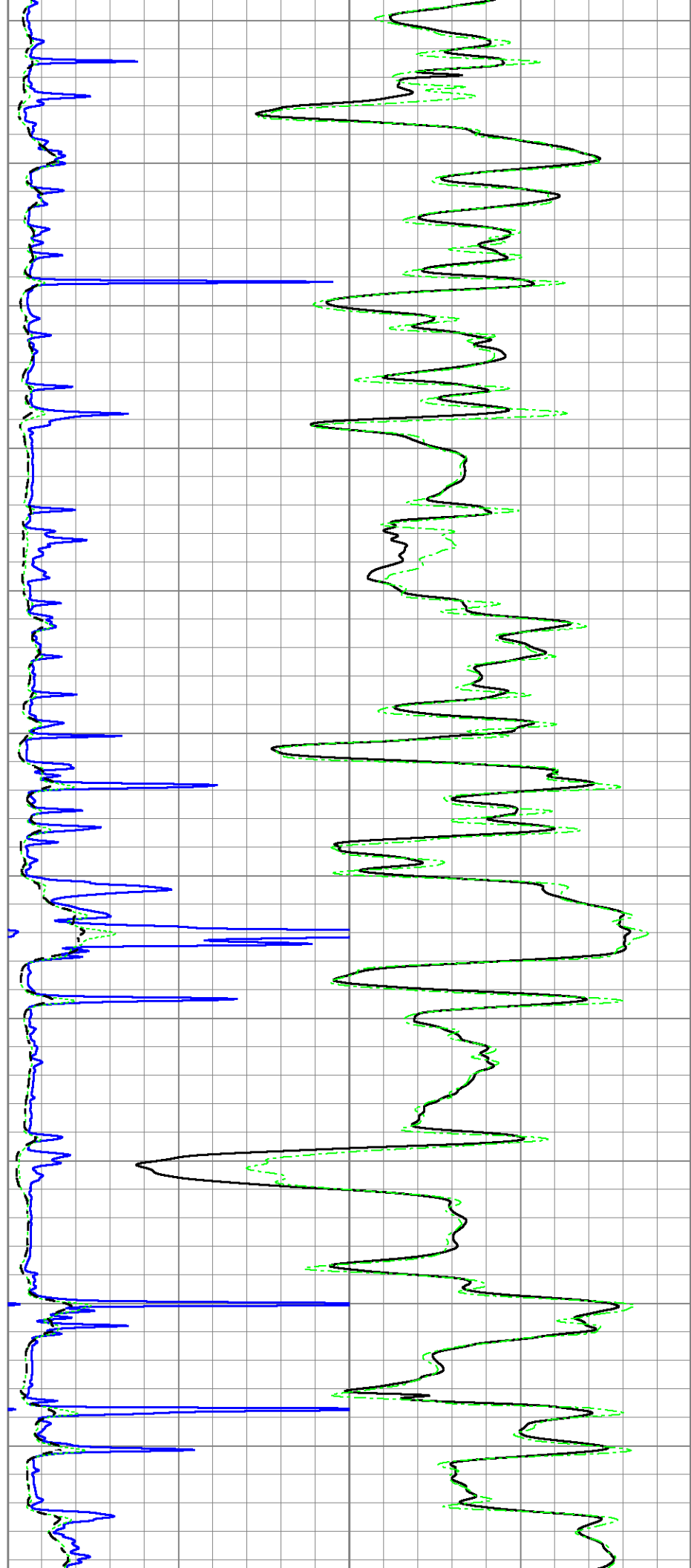
|                     |                            |
|---------------------|----------------------------|
| Database File       | ow2-9178 c g drilling.db   |
| Dataset Pathname    | pass3.16                   |
| Presentation Format | st_dil_2inch_6-16          |
| Dataset Creation    | Sun Mar 12 08:16:28 2023   |
| Charted by          | Depth in Feet scaled 1:600 |

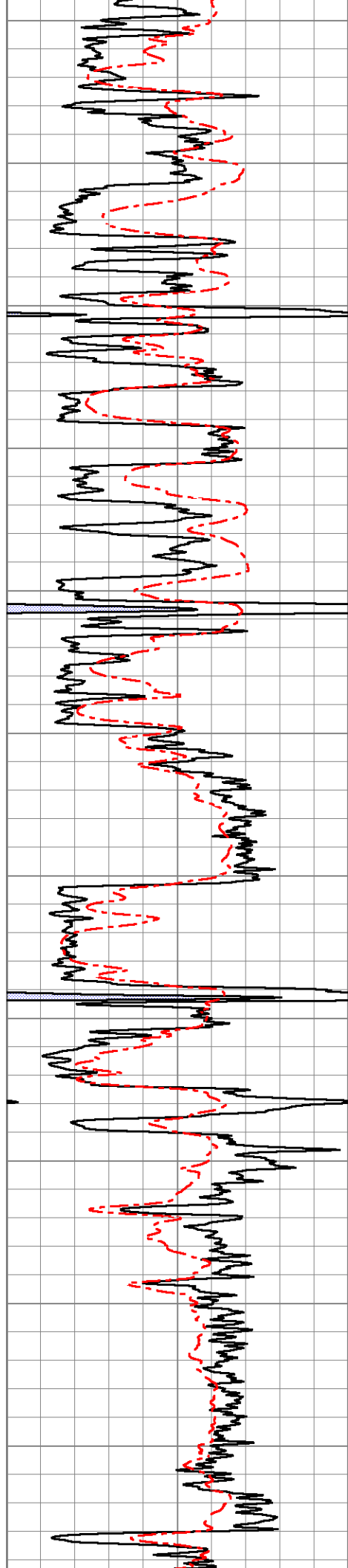
|    |                            |     |         |      |               |    |
|----|----------------------------|-----|---------|------|---------------|----|
| 0  | GR (GAPI)                  | 150 | DEVI    | 1000 | CILD (mmho/m) | 0  |
| 50 | Spontaneous Potential (mV) | 220 | 0 (deg) | 15   | CILM (mmho/m) | 0  |
|    |                            |     |         | 0    | RLL3 (Ohm-m)  | 50 |
|    |                            |     |         | 0    | RILM (Ohm-m)  | 50 |
|    |                            |     |         | 0    | RILD (Ohm-m)  | 50 |



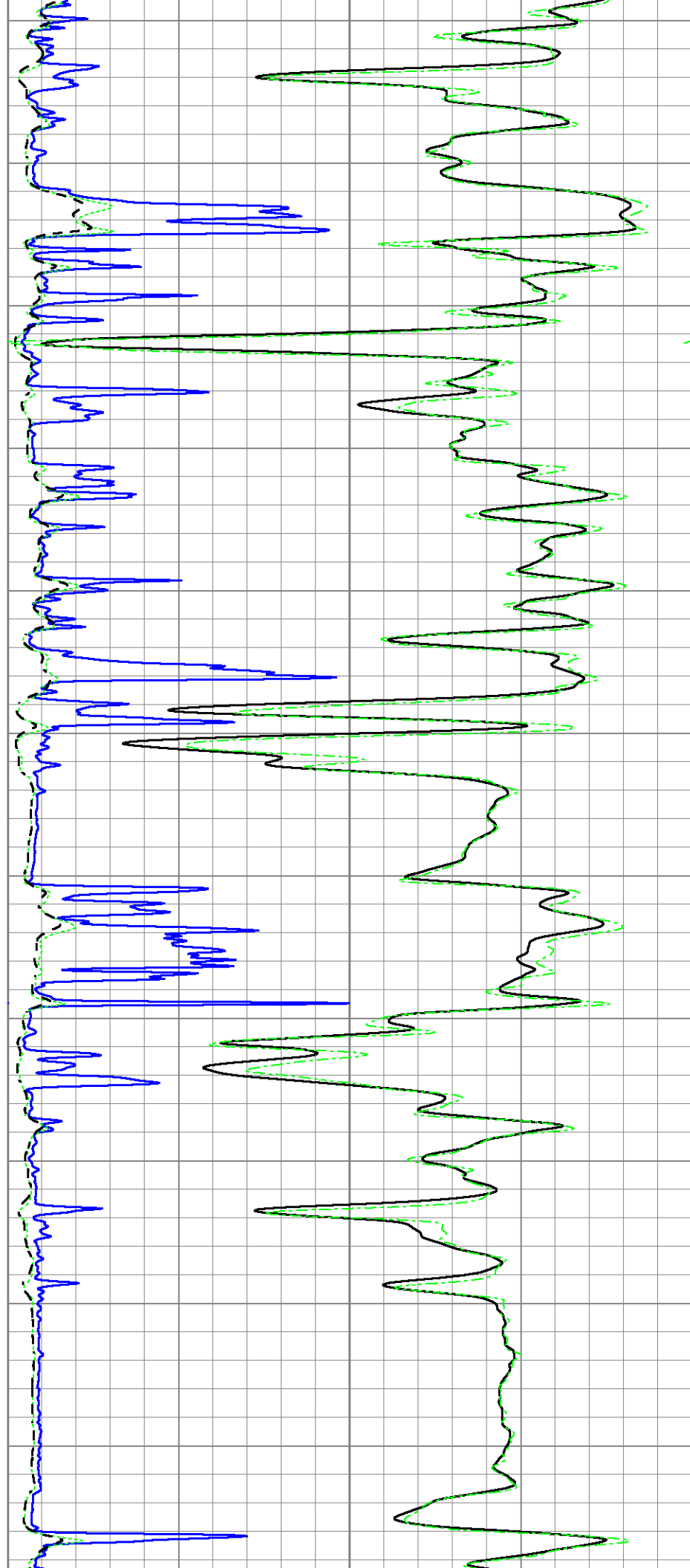


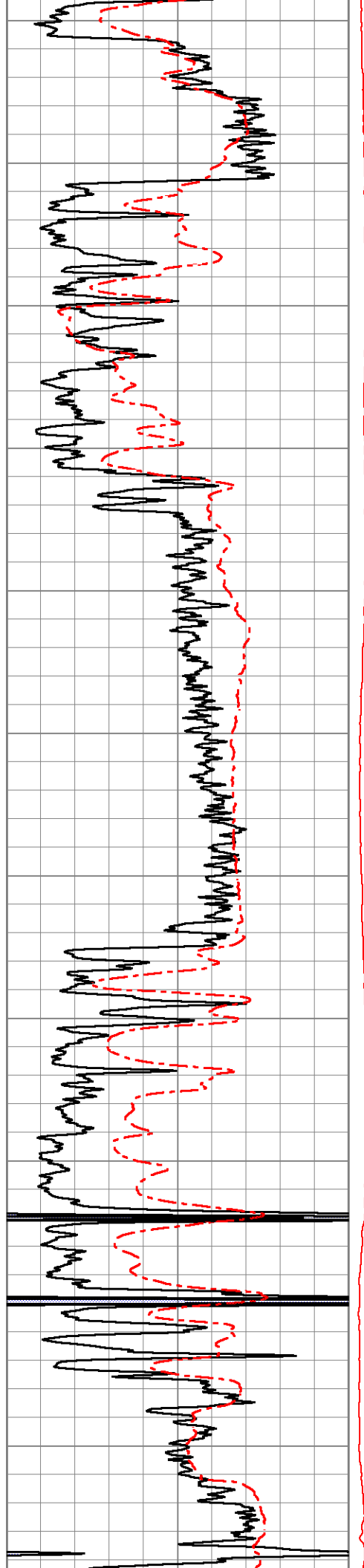
650  
700  
750  
800  
850  
900  
950  
1000  
1050  
1100  
1150



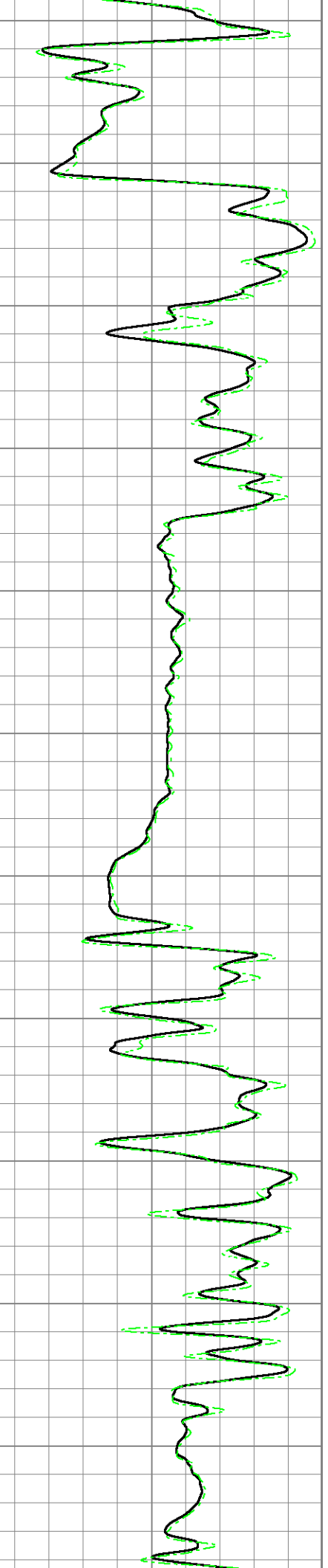
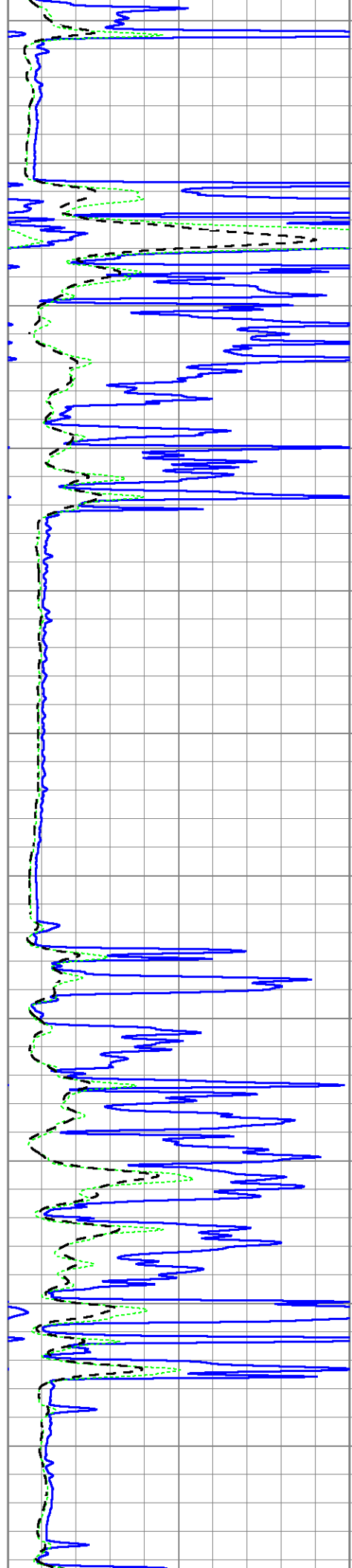


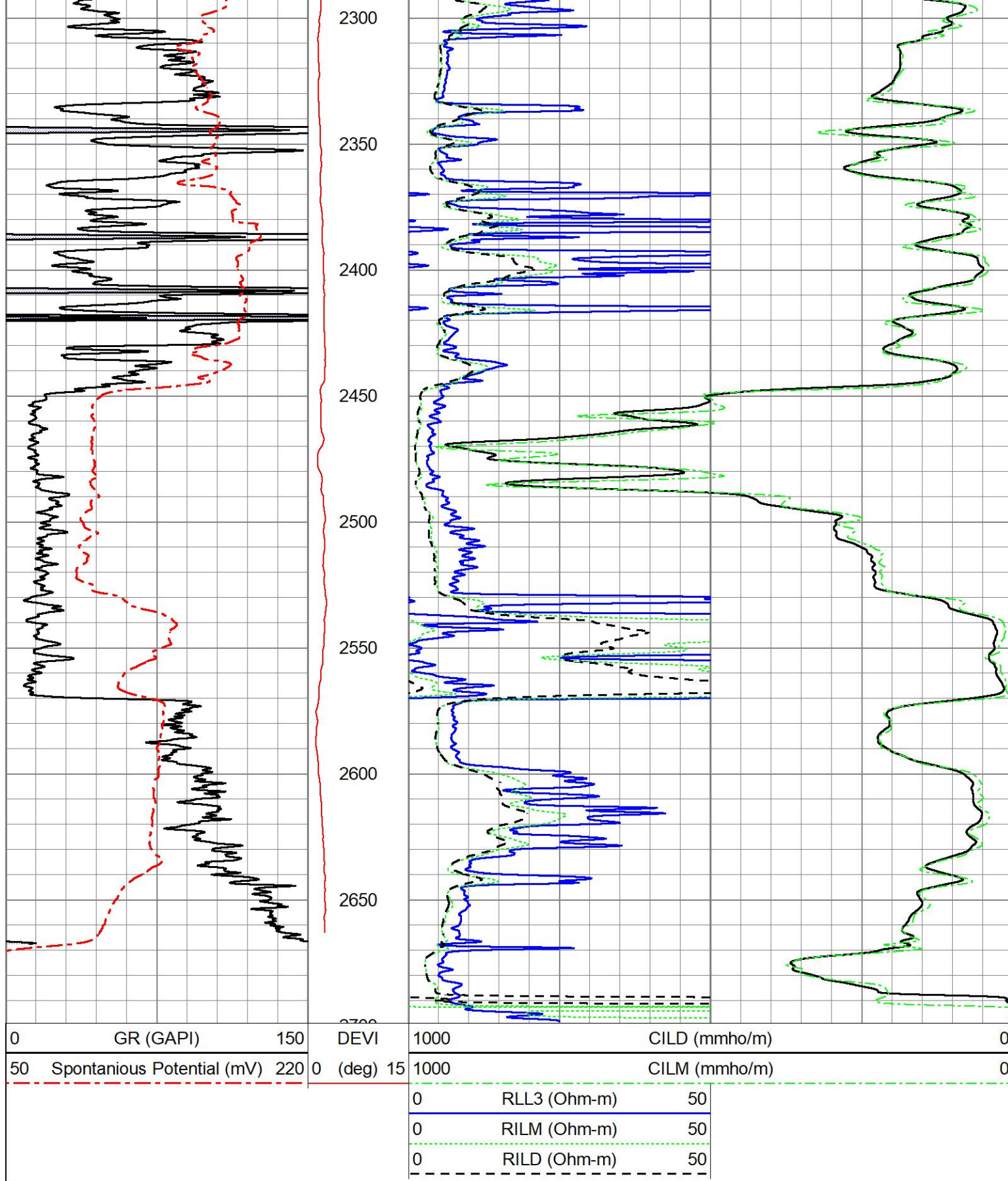
1200  
1250  
1300  
1350  
1400  
1450  
1500  
1550  
1600  
1650  
1700





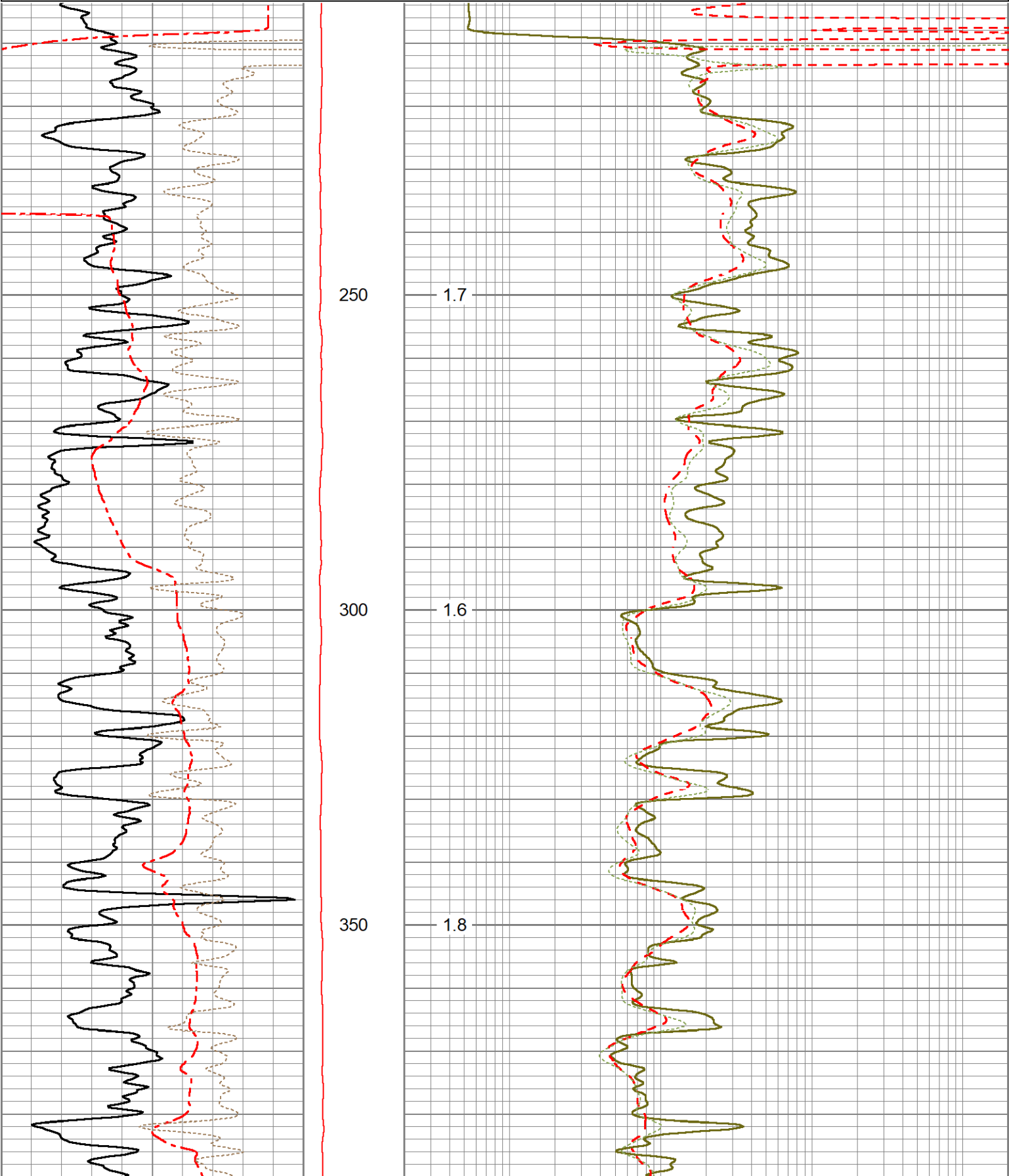
1750  
1800  
1850  
1900  
1950  
2000  
2050  
2100  
2150  
2200  
2250

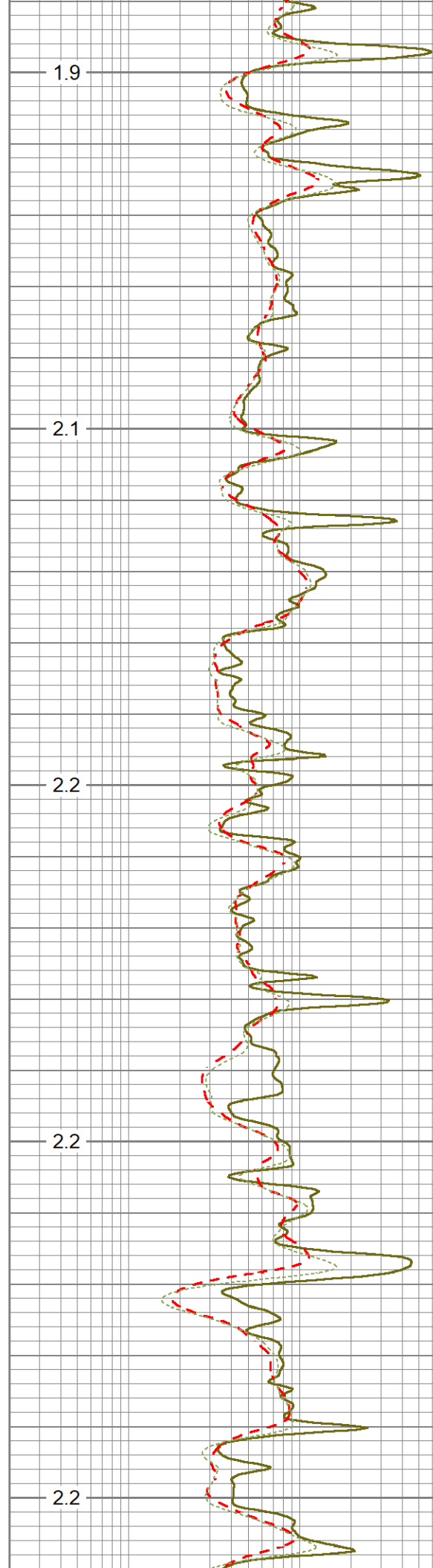
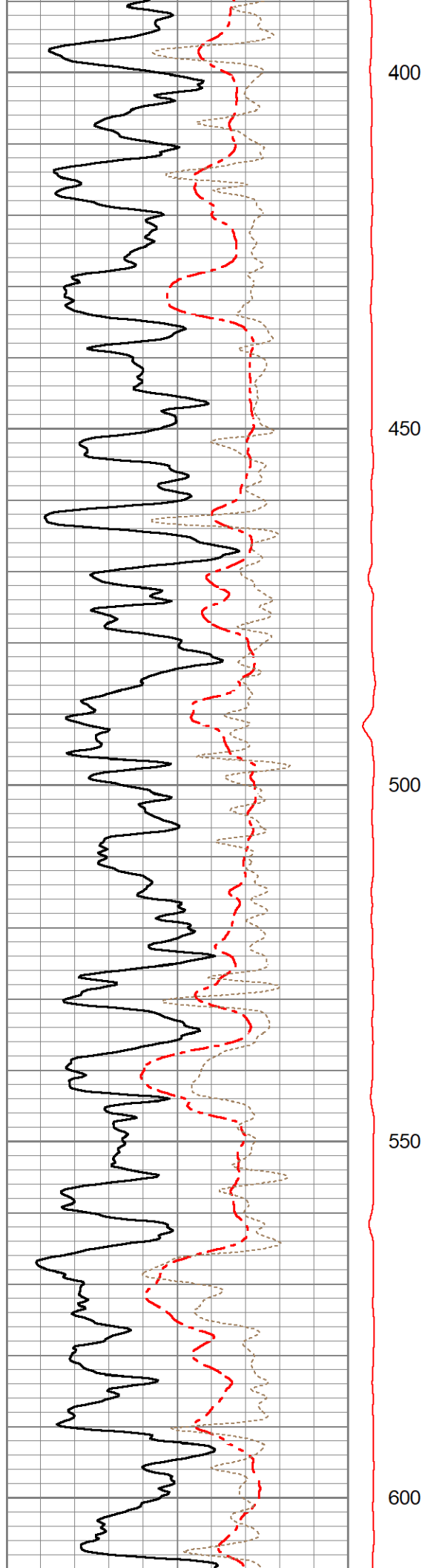


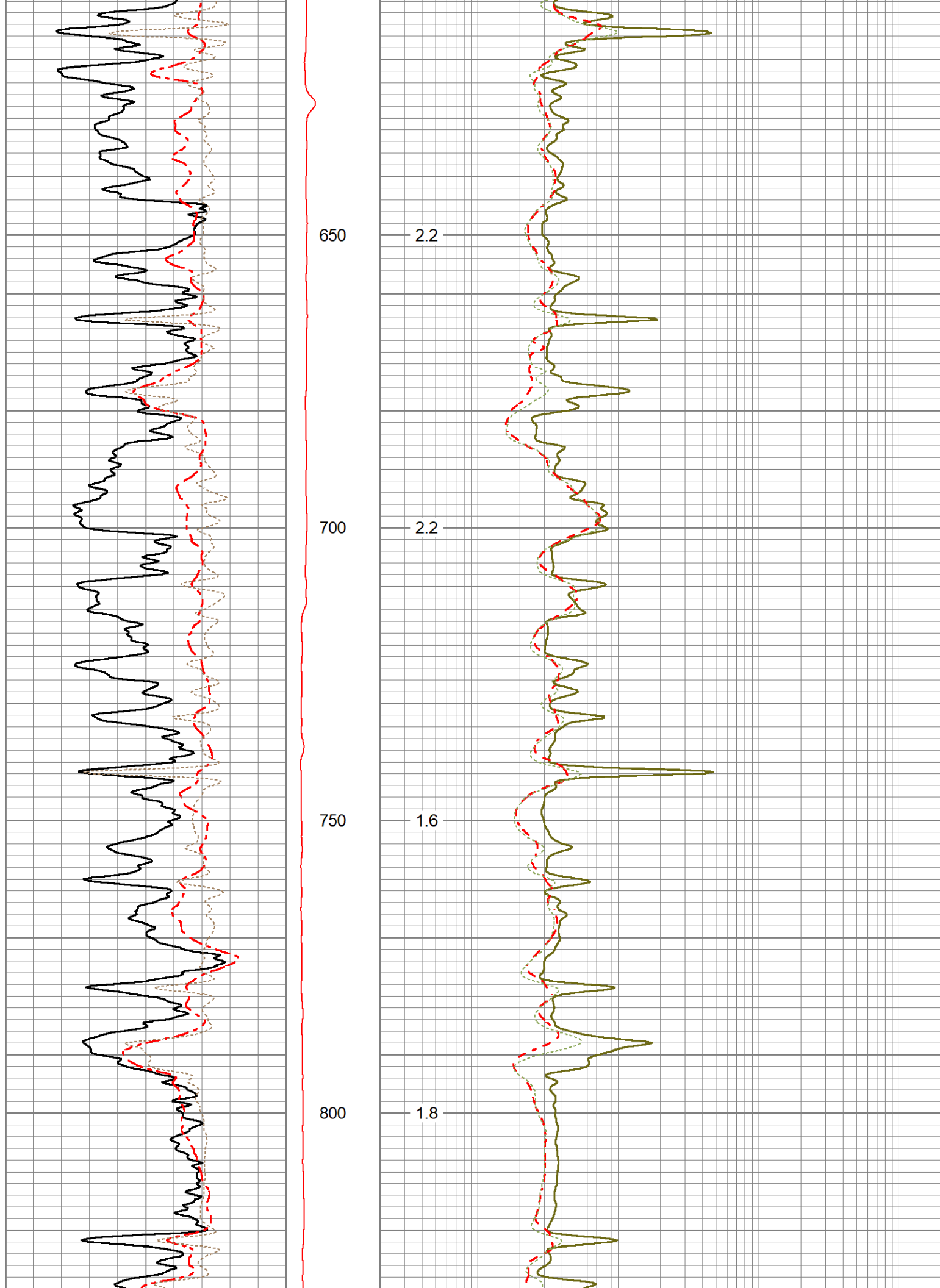


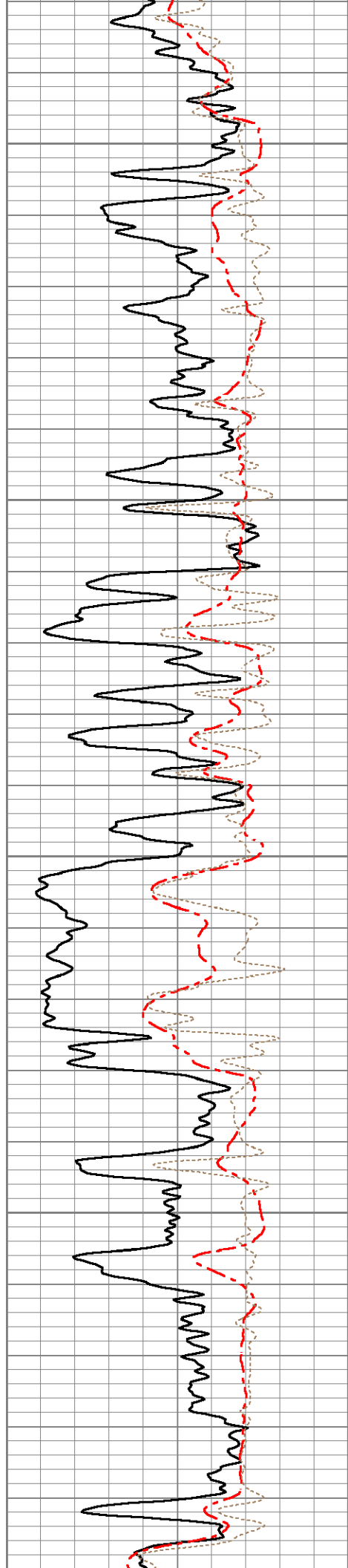
# 5" DUAL INDUCTION LOG

|      |                            |     |            |            |                             |      |
|------|----------------------------|-----|------------|------------|-----------------------------|------|
| 0    | Gamma Ray (GAPI)           | 150 | DEVI       | 0.2        | Shallow Resistivity (Ohm-m) | 2000 |
| 50   | Spontaneous Potential (mV) | 220 | 0 (deg) 10 | 0.2        | Deep Resistivity (Ohm-m)    | 2000 |
| -150 | Rxo\Rt                     | 50  |            | 0.2        | Medium Resistivity (Ohm-m)  | 2000 |
|      |                            |     |            | DEVI (deg) |                             |      |









850

900

950

1000

1050

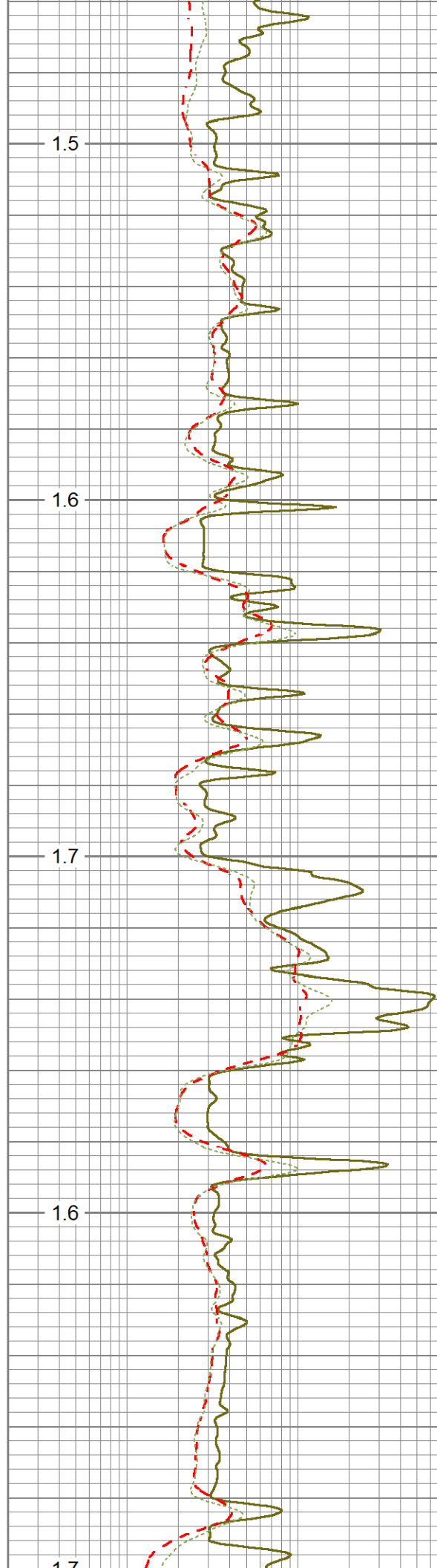
1.5

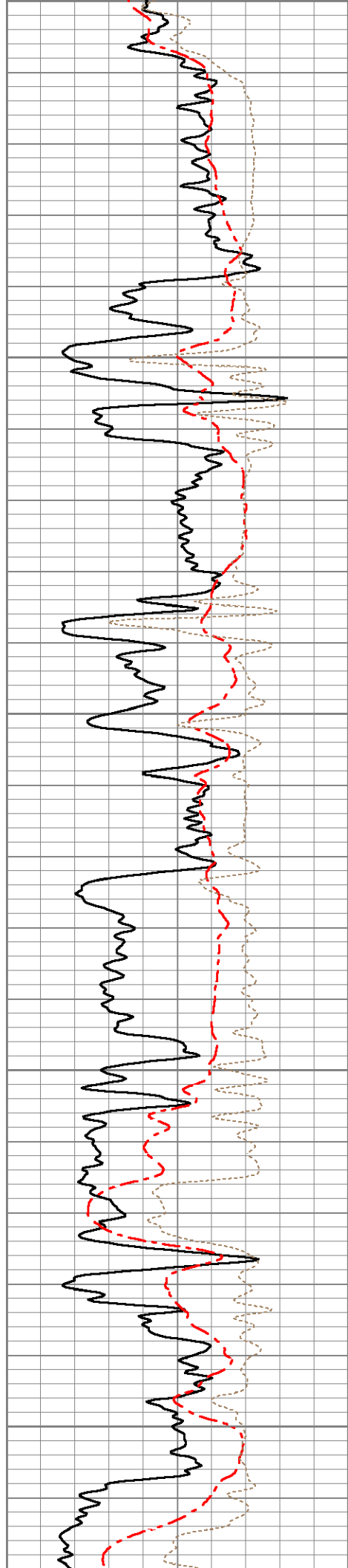
1.6

1.7

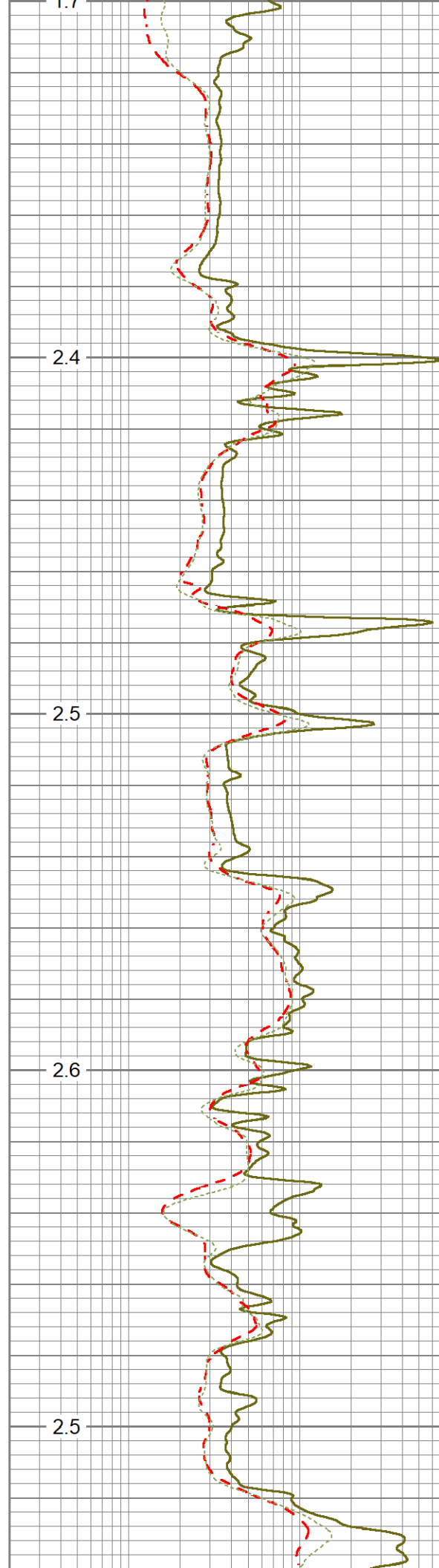
1.6

1.7





1050  
1100  
1150  
1200  
1250

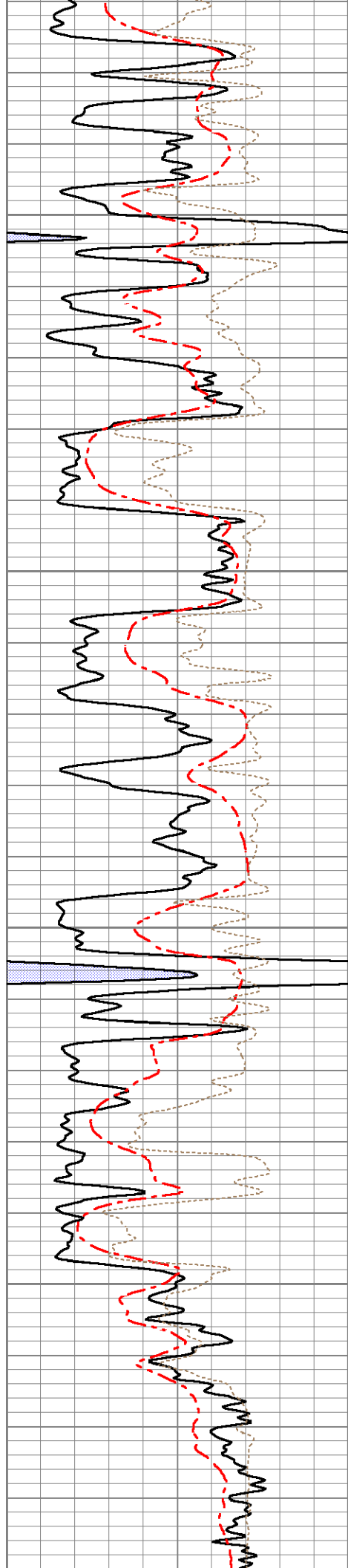


2.4

2.5

2.6

2.5



1300

1350

1400

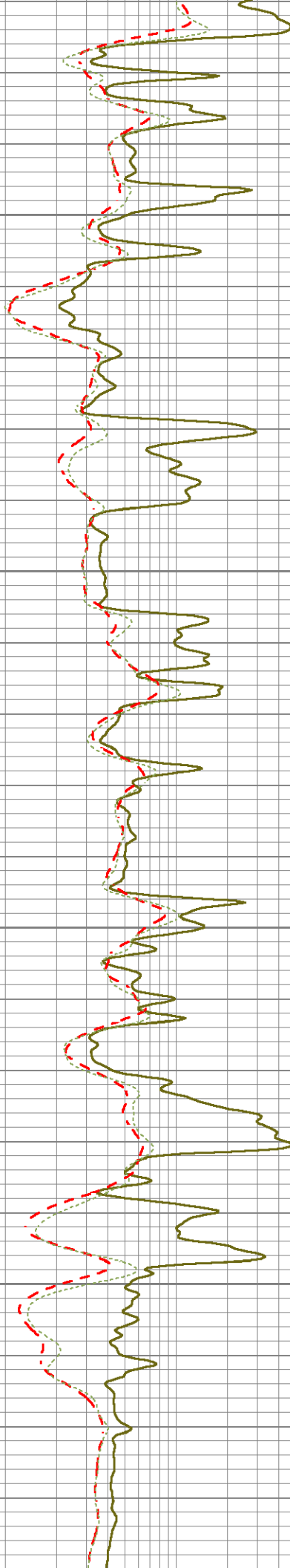
1450

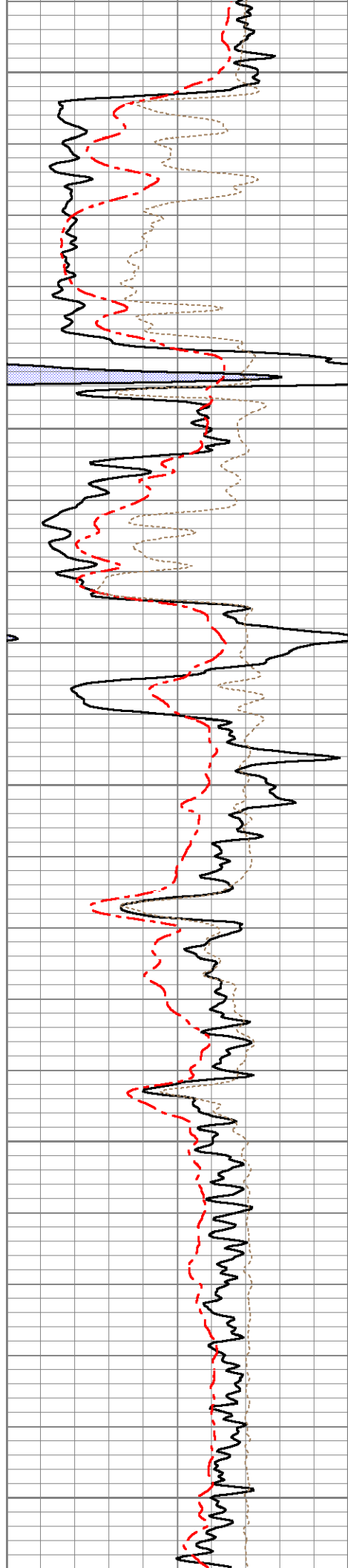
2.5

2.3

2.5

2.5





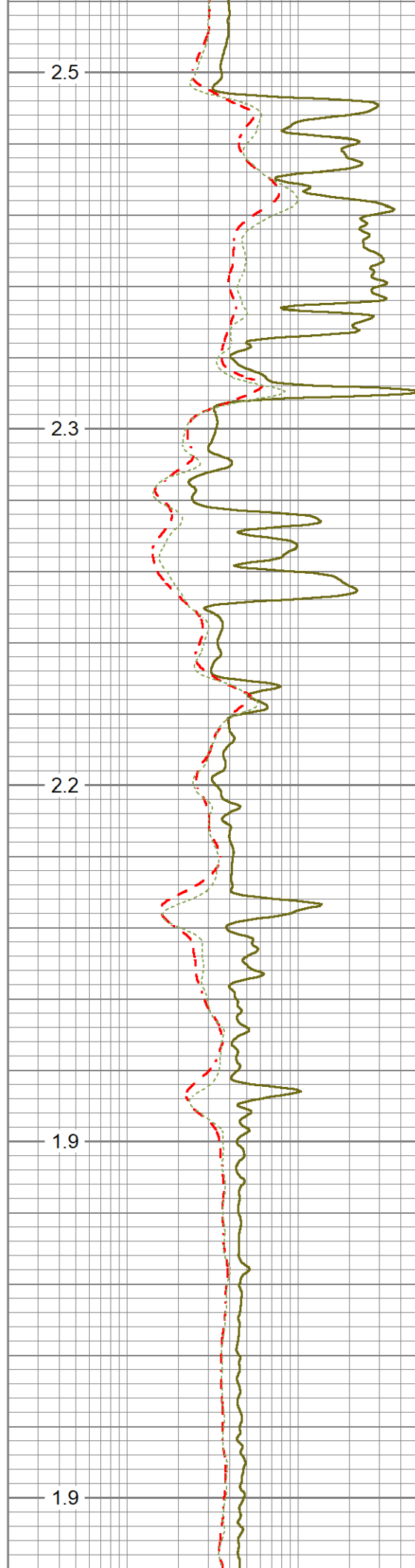
1500

1550

1600

1650

1700



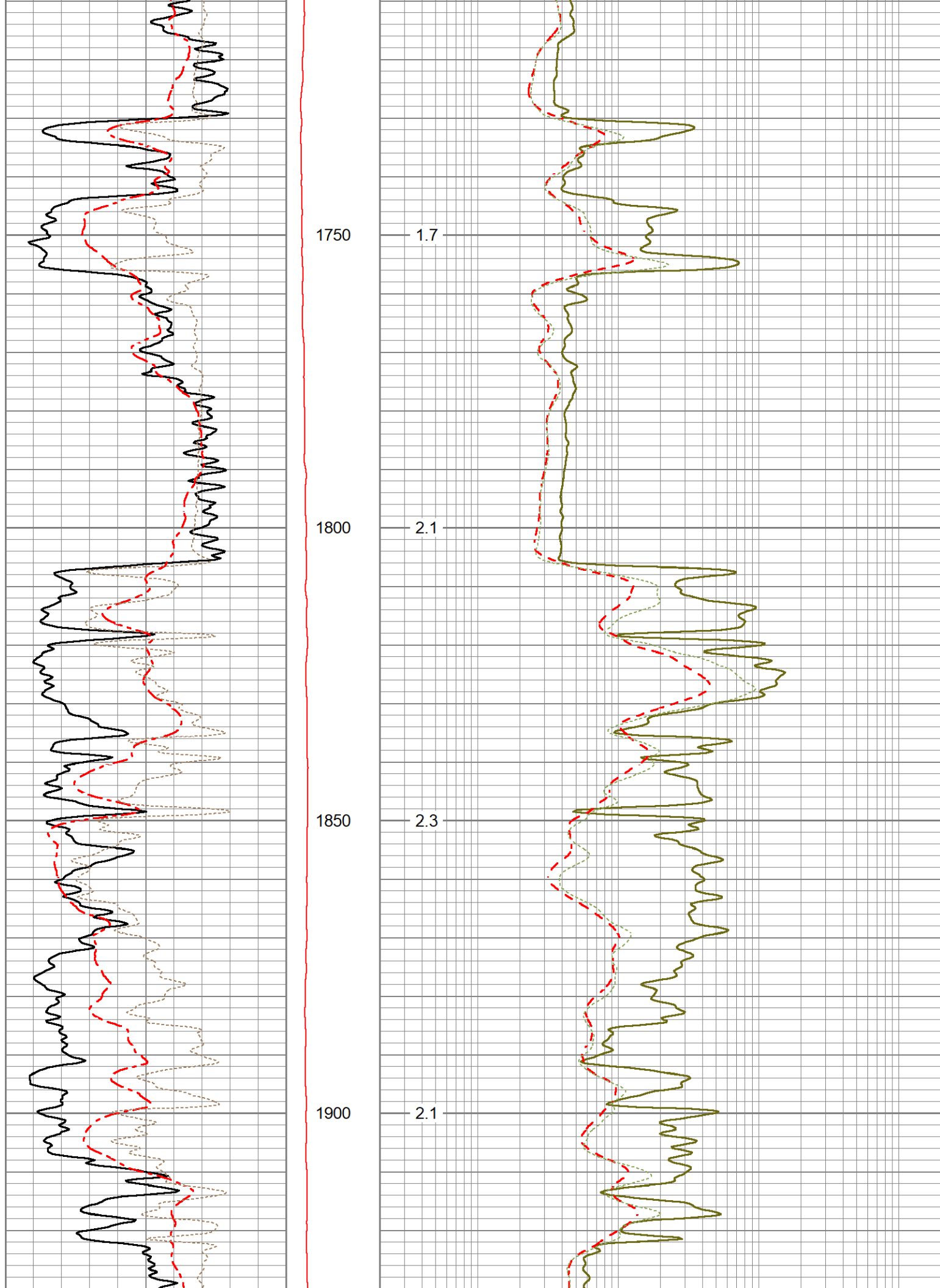
2.5

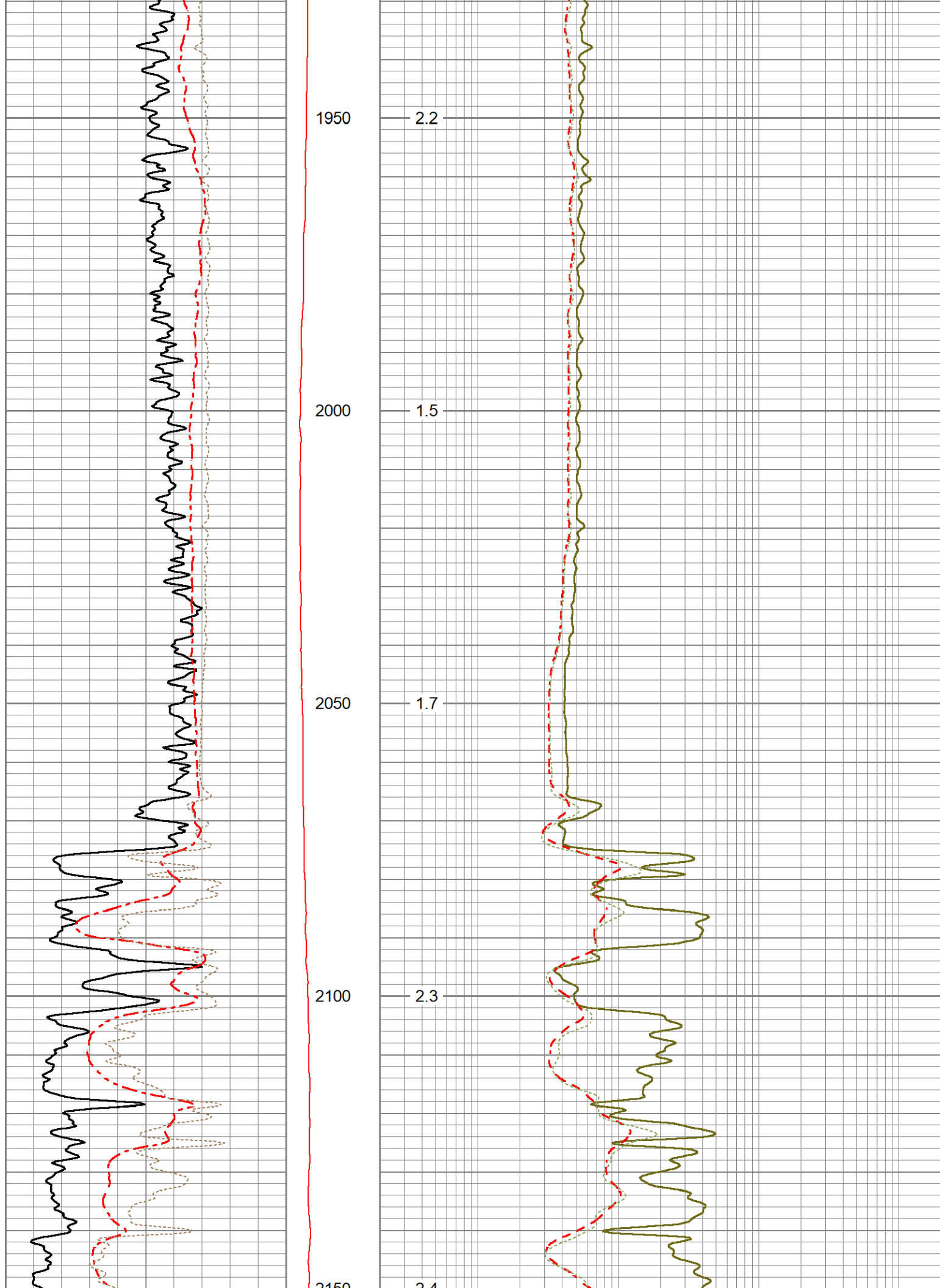
2.3

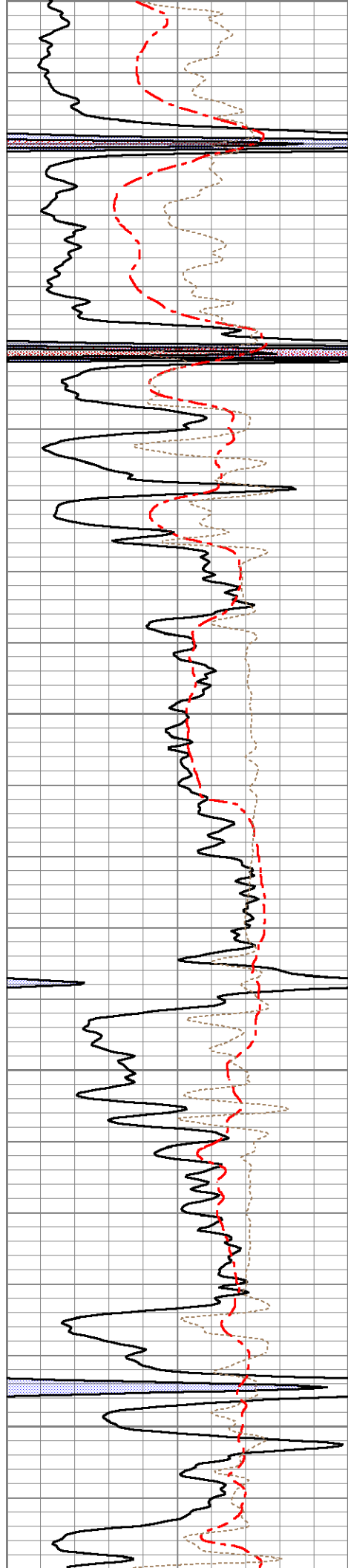
2.2

1.9

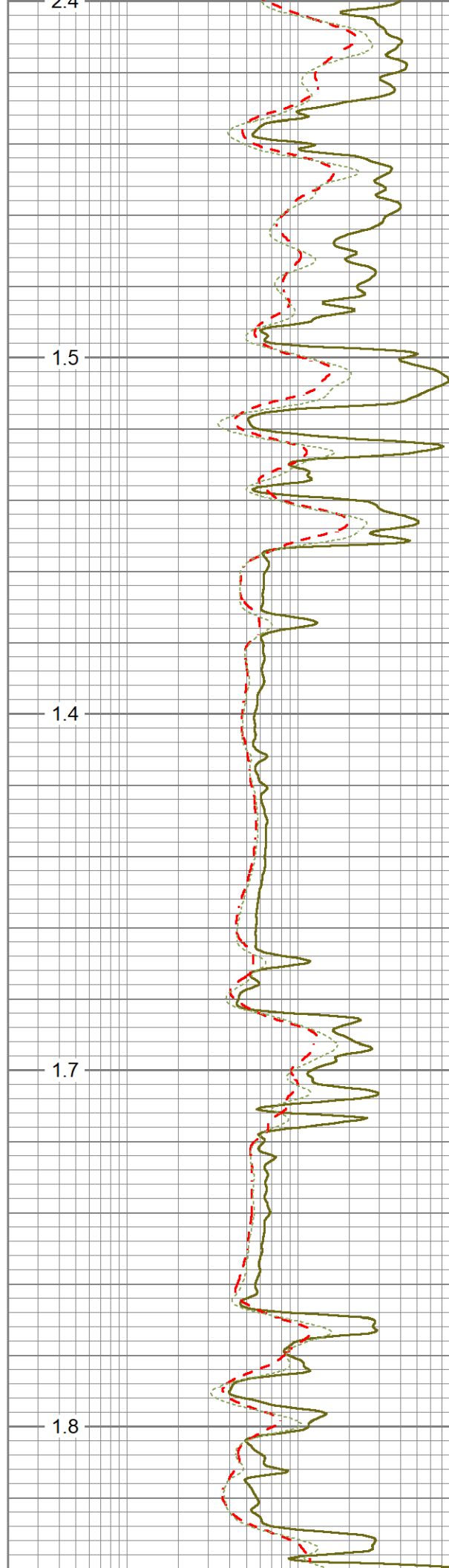
1.9



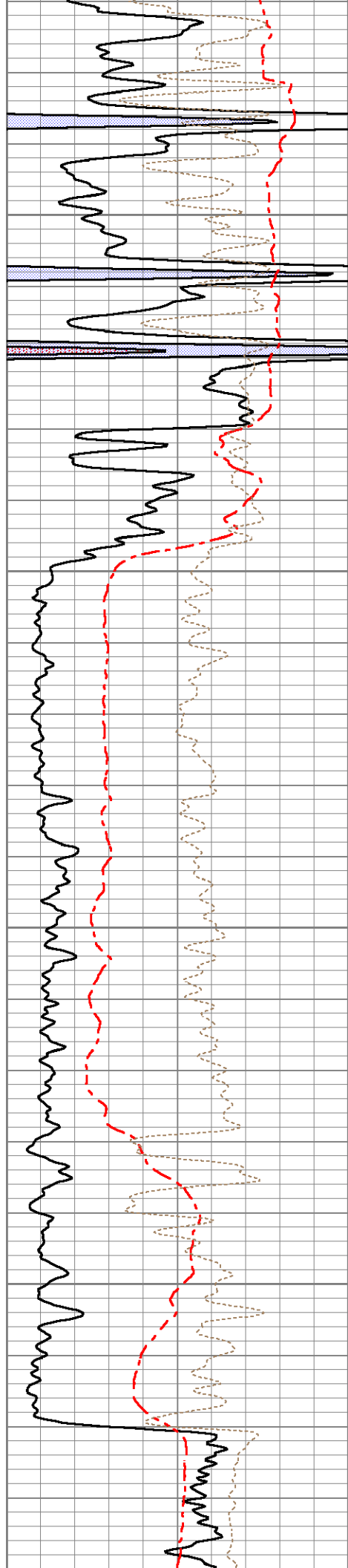




2150  
2200  
2250  
2300  
2350



2.4  
1.5  
1.4  
1.7  
1.8

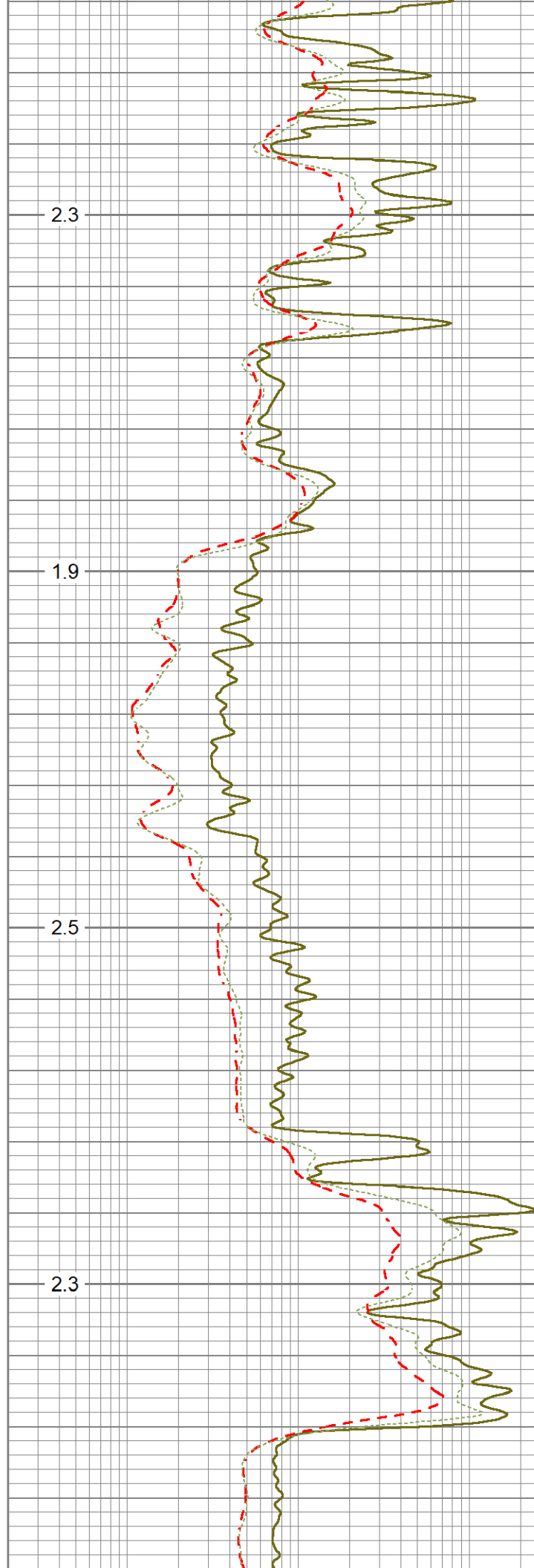


2400

2450

2500

2550



2.3

1.9

2.5

2.3



|        | Readings |         |        | References |          |        | Results |       |
|--------|----------|---------|--------|------------|----------|--------|---------|-------|
|        | Zero     | Cal     |        | Zero       | Cal      |        | m'      | b'    |
| Deep   | -2.869   | 354.028 | mmho/m | -0.044     | 350.323  | mmho/m | 0.982   | 2.773 |
| Medium | -3.741   | 414.629 | mmho/m | -0.037     | 400.340  | mmho/m | 0.957   | 3.543 |
| LL3    |          | 9.030   | V      |            | 2200.000 | Ohm-m  |         |       |
|        |          | 0.000   | V      |            | 25.000   | Ohm-m  |         |       |
|        |          | -5.250  | V      |            | 3000.000 | mmho-m |         |       |

| After Survey Verification |          |       |        |         |         |        |         |       |
|---------------------------|----------|-------|--------|---------|---------|--------|---------|-------|
|                           | Readings |       |        | Targets |         |        | Results |       |
|                           | Zero     | Cal   |        | Zero    | Cal     |        | m'      | b'    |
| Deep                      | 0.000    | 0.000 | mmho/m | -2.869  | 354.028 | mmho/m | 1.000   | 0.000 |
| Medium                    | 0.000    | 0.000 | mmho/m | -3.741  | 414.629 | mmho/m | 1.000   | 0.000 |
| LL3                       |          | 0.000 | Ohm-m  |         | 2.000   | Ohm-m  |         |       |
|                           |          | 0.000 | Ohm-m  |         | 500.000 | Ohm-m  |         |       |
|                           |          | 0.000 | mmho-m |         | 1.000   | mmho-m |         |       |

Microlog Calibration Report

|               |                         |
|---------------|-------------------------|
| Serial-Model: | 110861-Osage            |
| Performed:    | Wed Oct 5 13:22:55 2022 |

|         | Readings |        |   | References |         |       | Results  |        |
|---------|----------|--------|---|------------|---------|-------|----------|--------|
|         | Zero     | Cal    |   | Zero       | Cal     |       | m        | b      |
| Normal  | -0.0028  | 0.0887 | V | 0.0000     | 10.0000 | Ohm-m | 109.2780 | 0.3082 |
| Inverse | -0.0060  | 0.1128 | V | 0.0000     | 10.0000 | Ohm-m | 84.1775  | 0.5012 |
| Caliper | 0.3482   | 9.1366 | V | 5.9000     | 20.5000 | in    | 1.6613   | 5.3215 |

Inclinometer Calibration Report

|                 |                         |            |  |          |           |     |  |
|-----------------|-------------------------|------------|--|----------|-----------|-----|--|
| Performed:      | Thu Oct 8 13:57:38 2020 |            |  |          |           |     |  |
|                 | Low Read.               | High Read. |  | Low Ref. | High Ref. |     |  |
| X Accelerometer | 205.00                  | 1843.00    |  | -1.00    | 1.00      | gee |  |
| Y Accelerometer | 205.00                  | 1843.00    |  | -1.00    | 1.00      | gee |  |
| Z Accelerometer |                         |            |  |          |           | gee |  |

Gamma Ray Calibration Report

|                     |                          |
|---------------------|--------------------------|
| Serial Number:      | Refurb01                 |
| Tool Model:         | OSAGE_01                 |
| Performed:          | Mon Jan 18 09:02:16 2021 |
| Calibrator Value:   | 150.0 GAPI               |
| Background Reading: | 125.0 cps                |
| Calibrator Reading: | 875.0 cps                |
| Sensitivity:        | 0.2000 GAPI/cps          |

| Sensor | Offset (ft) | Schematic                                                                           | Description                     | Length (ft) | O.D. (in) | Weight (lb) |
|--------|-------------|-------------------------------------------------------------------------------------|---------------------------------|-------------|-----------|-------------|
| ACCY   | 31.04       |  | ADWIR TELEMETRY COAGE AND ALLOY |             |           |             |

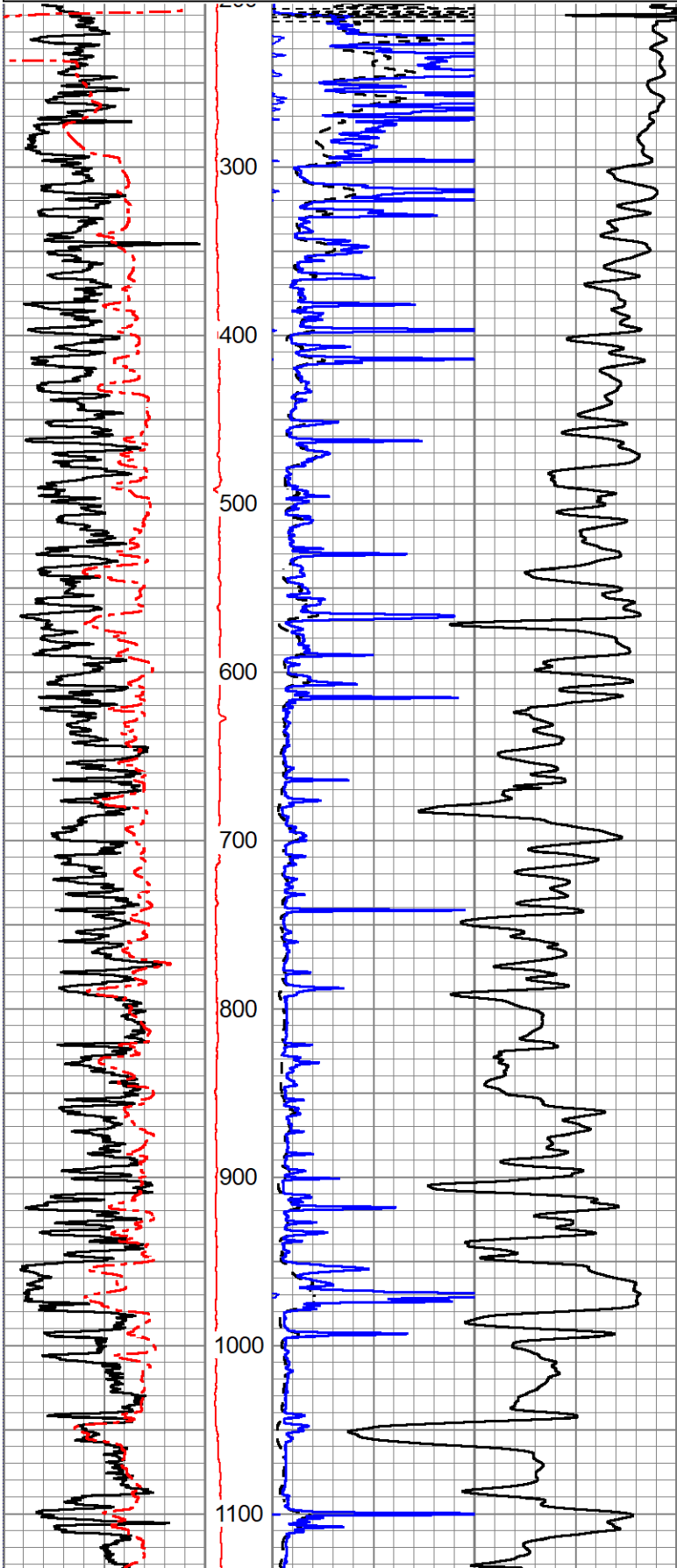
|                                                                                                                                   |       |  |                                                                                                                 |       |      |        |
|-----------------------------------------------------------------------------------------------------------------------------------|-------|--|-----------------------------------------------------------------------------------------------------------------|-------|------|--------|
| ACCX                                                                                                                              | 31.04 |  | ADMYR_TELEMETRY-OSAGE_01 (Refurb01)<br>Admyr Telemetry With Gr, Deviation, ADC board<br>and Pulses Board in it. | 3.69  | 3.25 | 53.00  |
| GR                                                                                                                                | 29.86 |  |                                                                                                                 |       |      |        |
| FRAMES                                                                                                                            | 28.54 |  |                                                                                                                 |       |      |        |
| SSTAT                                                                                                                             | 28.54 |  |                                                                                                                 |       |      |        |
| PSTAT                                                                                                                             | 28.54 |  |                                                                                                                 |       |      |        |
| ASTAT                                                                                                                             | 28.54 |  |                                                                                                                 |       |      |        |
| MI                                                                                                                                | 23.00 |  |                                                                                                                 |       |      |        |
| MN                                                                                                                                | 23.00 |  |                                                                                                                 |       |      |        |
| MCAL                                                                                                                              | 22.00 |  |                                                                                                                 |       |      |        |
| ASTAT2                                                                                                                            | 21.33 |  |                                                                                                                 |       |      |        |
| SP                                                                                                                                | 10.92 |  | DIL-G (080402 ( PINK TOOL ))<br>Gearhart                                                                        | 21.33 | 4.00 | 290.00 |
| CILD                                                                                                                              | 10.92 |  |                                                                                                                 |       |      |        |
| CILM                                                                                                                              | 7.00  |  |                                                                                                                 |       |      |        |
| RLL3                                                                                                                              | 1.65  |  |                                                                                                                 |       |      |        |
| TR_Mon                                                                                                                            | 0.00  |  |                                                                                                                 |       |      |        |
| Dataset: ow2-9178 c g drilling.db: field/well/run1/pass3.15<br>Total length: 32.23 ft<br>Total weight: 480.00 lb<br>O.D.: 5.13 in |       |  |                                                                                                                 |       |      |        |

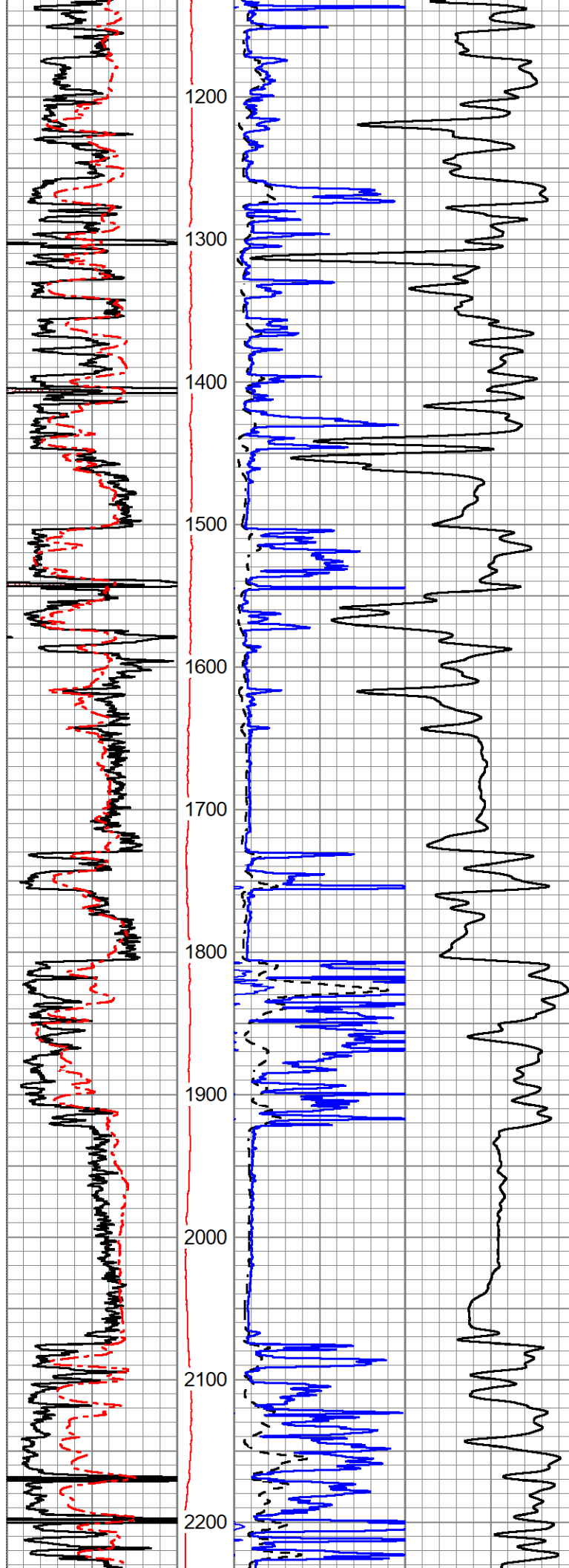


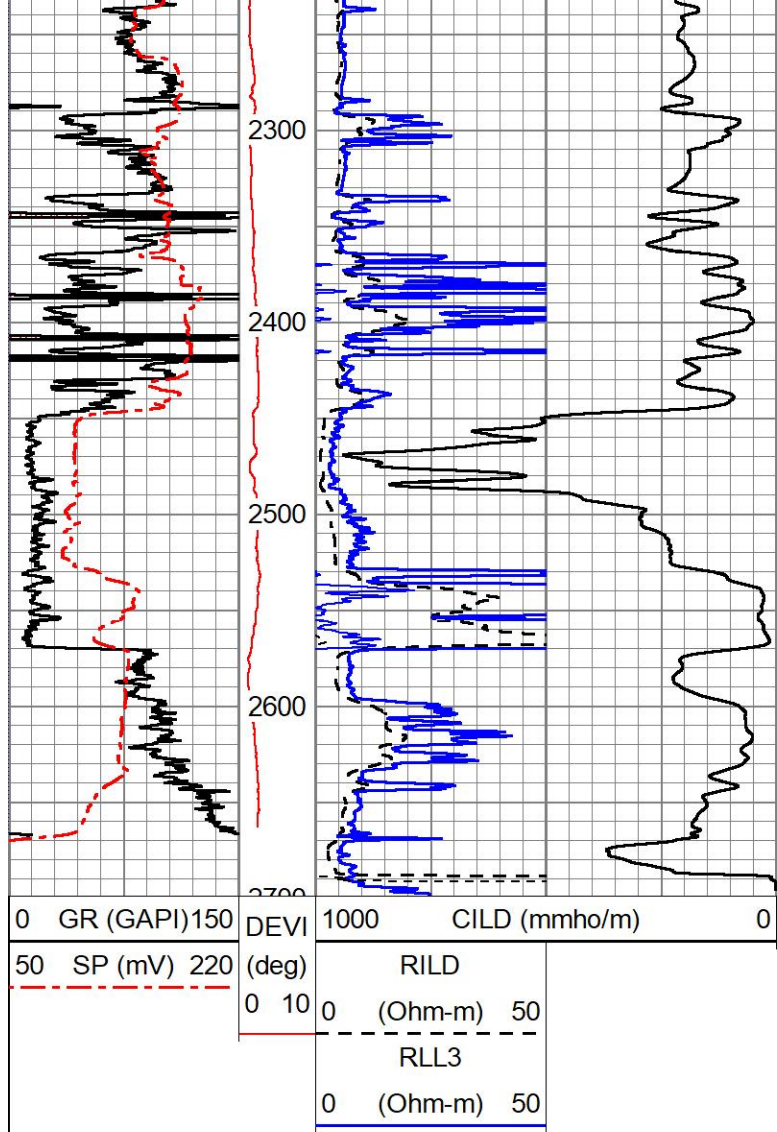
# 1" INDUCTION LOG

Database File ow2-9178 c g drilling.db  
 Dataset Pathname pass3.17  
 Presentation Format st\_dil\_1inch\_6-16

|    |              |       |      |               |   |
|----|--------------|-------|------|---------------|---|
| 0  | GR (GAPI)150 | DEVI  | 1000 | CILD (mmho/m) | 0 |
| 50 | SP (mV) 220  | (deg) | RILD |               |   |
|    |              | 0 10  | 0    | (Ohm-m) 50    |   |
|    |              |       | RLL3 |               |   |
|    |              |       | 0    | (Ohm-m) 50    |   |







# 1" INDUCTION LOG