

MWD

EWR Electromagnetic Wave Resistivity
DGR Dual Gamma Ray
ALD Azimuthal Litho-Density
CTN Comp Thermal Neutron
ACAL Acoustic Caliper

| | | | | | | | |
|--|------------|--|-----------|--|--------------------|----------------------|------------|
| Country | | : Australia | | <div>Company : Woodside Energy Ltd</div> <div>Rig : Maersk Guardian</div> <div>Well : THA01</div> <div>Country : Thylacine</div> <div>DOE Number : Australia</div> | | | |
| Field | | : Thylacine | | | | | |
| Location | | : Lat: 39° 14' 14.41" South GDA94 Long: 142° 54' 7.74" East GDA94 | | | | | |
| Well | | : THA01 | | | | | |
| Company | | : Woodside Energy Ltd | | | | | |
| Rig | | : Maersk Guardian | | | | | |
| Permanent Datum : LAT | | | | LOCATION | | | |
| Log Measured From : Drill Floor | | | | Latitude : Lat: 39° 14' 14.41" South GDA94 | | | |
| Drilling Measured From : Drill Floor | | | | Longitude : Long: 142° 54' 7.74" East GDA94 | | | |
| | | | | UTM Easting = 664,164.9 m | | | |
| | | | | UTM Northing = 5,655,161.4 m | | | |
| Elevation : 0.00 m | | | | Other Services | | | |
| 50.50 m Above Permanent Datum | | | | Directional Drilling | | | |
| MD LOG | | | | KB | | | |
| | | | | DF | | | |
| | | | | GL | | | |
| | | | | WD 99.30 m | | | |
| Depth Logged : 149.80 m To 2,634.15 m | | | | Unit No. : SDSS 40 | | | |
| Date Logged : 13-Apr-06 To 14-May-06 | | | | Job No. : AU-FE-0003930657 | | | |
| Total Depth MD : 2,634.15 m TVD : 2,389.92 m | | | | Plot Type : Final | | | |
| Spud Date : 13-Apr-06 | | | | Plot Date : 29-Aug-06 | | | |
| Run No. | | Borehole Record (MD) | | Run No. | | Borehole Record (MD) | |
| Size | | From To | | Size | | From To | |
| 100 | 762.000 mm | 149.80 m | 220.00 m | | | | |
| 200 | 584.000 mm | 220.00 m | 638.00 m | | | | |
| 300 | 445.000 mm | 638.00 m | 1173.40 m | | | | |
| 400 | 445.000 mm | 1173.40 m | 1357.80 m | | | | |
| 500 | 445.000 mm | 1357.80 m | 1530.20 m | Size | Casing Record (MD) | | |
| 600 | 445.000 mm | 1530.20 m | 2240.00 m | | Weight | From | To |
| 700 | 311.000 mm | 2240.00 m | 2387.42 m | | 397.80 kgpm | SURFACE | 220.00 m |
| 800 | 311.000 mm | 2387.42 m | 2634.15 m | | 140.60 kgpm | SURFACE | 633.00 m |
| | | | | | 101.00 kgpm | SURFACE | 2,230.00 m |
| | | | | | 70.00 kgpm | 2,079.00 m | 2,631.00 m |
| | | | | | | | |
| | | | | | | | |

WELL INFORMATION

| | | | | | |
|--------------------------------|-----------------------|---------------------|----------------------|-------------------|-----------------------|
| MWD Run Number | 300 | 400 | 500 | 600 | 700 |
| Date run completed | 23-Apr-06 | 25-Apr-06 | 27-Apr-06 | 30-Apr-06 | 05-May-06 |
| Rig Bit Number | 3 | 4 | 5 | 3RR | 6 |
| Bit Size (mm) | 445 | 445 | 445 | 445 | 311 |
| Tool Nominal OD (mm) | 241 | 241 | 203 | 241 | 203 |
| Log Start Depth (MD, m) | 638.00 | 1,173.40 | 1,357.80 | 1,530.20 | 2,240.00 |
| Log End Depth (MD, m) | 1,173.40 | 1,357.80 | 1,530.20 | 2,240.00 | 2,387.40 |
| Drill or Wipe | Drilling | Drilling | Drilling | Drilling | Drilling |
| Drill/Wipe Start Date and Time | 21-Apr-06 05:54 | 24-Apr-06 02:44 | 26-Apr-06 12:07 | 27-Apr-06 12:27 | 04-May-06 12:31 |
| Drill/Wipe End Date and Time | 22-Apr-06 22:11 | 25-Apr-06 04:23 | 26-Apr-06 17:39 | 29-Apr-06 07:55 | 05-May-06 01:19 |
| Min Inc (deg) @ Depth (MD, m) | 6.53 @ 640.810 | 29.18 @ 1,335.71 | 29.18 @ 1,364.19 | 29.68 @ 2,210.26 | 28.69 @ 2,361.59 |
| Max Inc (deg) @ Depth (MD, m) | 31.04 @ 1,074.02 | 30.09 @ 1,248.01 | 30.44 @ 1,508.90 | 31.44 @ 1,880.86 | 29.28 @ 2,245.78 |
| Bit TFA(in2) / Bit Type | 1.977 / Reed DS104DGW | 1.841 / Reed DS619S | 1.804 / Hughes MX-03 | 1.574 / DSC104DGW | 1.374 / Hughes HC605S |
| Flow Rate (gpm) | 1150 | 1000 | 980 | 900 | 900 |
| Max AV (mpm) / CV (mpm) @ MWD | 39.6 / 129.0 | 41.4 / 105.9 | 33.6 / 117.6 | 39.8 / 90.5 | 78.5 / 118.5 |
| Fluid Type | Synteq | Synteq | Synteq | Synteq | Synteq |
| Density (sg) / Viscosity (spl) | 1.25 / 110.00 | 1.25 / 106 | 1.25 / 100 | 1.25 / 84 | 1.25 / 107 |
| Filtrate CL (ppm) | 40000 | 38600 | 36300 | 33200 | 38700 |
| pH / Fluid Loss (mptm) | N/A / 4.5 | N/A / 3.2 | N/A / 3.6 | N/A / 3.6 | N/A / 3.4 |
| PV (cp) / YP (pa) | 47 / 26 | 41 / 30 | 34 / 26 | 41 / 30 | 42 / 13 |
| % Solids / % Sand | 11.4 / 0.25 | 12.1 / 0.50 | 13.2 / 0.50 | 13.3 / 0.50 | 14.4 / 0.50 |
| % Oil / Oil:Water Ratio | 53 / 61:39 | 55 / 64:36 | 58 / 68:32 | 60 / 71:29 | 56 / 67:33 |
| Rm @ Measured Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | N/A @ N/A | N/A @ N/A |
| Rmf @ Measured Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | N/A @ N/A | N/A @ N/A |
| Rmc @ Measured Temp (degC) | N/A @ N/A | N/A @ N/A | N/A @ N/A | N/A @ N/A | N/A @ N/A |
| Max Tool Temp (degC) / Source | 76 / EWR-P4D | 78 / EWR-P4D | 76 / EWR-P4D | 84 / EWR-P4D | 89 / EWR-P4 |
| Rm @ Max Tool Temp (degC) | N/A @ 76 | N/A @ 78 | N/A @ 76 | N/A @ 84 | N/A @ 89 |
| Lead MWD Engineer | M. Lee | M. Lee | M. Lee | M. Lee | M. Lee |
| Customer Representative | S. Job | S. Job | S. Job | D. Rota | D. Rota |

SENSOR INFORMATION

Downhole Processor Information

| | | | | | |
|------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Tool Type | HCIM | HCIM | HCIM | HCIM | HCIM |
| Software Version | 66.37 | 66.37 | 66.37 | 66.37 | 68.18 |
| Sub Serial Number | 10593967 | 10593967 | 10593967 | 10593967 | 152862 |
| Insert Serial Number | 132317 | 132317 | 132317 | 132317 | 134502 |
| Logging String Serial Number | DM90085714H1GV | DM90085714H1GV | DM90085714H1GV | DM90085714H1GV | DM90103157HWRG |
| Date and Time Initialized | 20-Apr-06 08:57 | 23-Apr-06 17:11:29 | 25-Apr-06 11:30:42 | 27-Apr-06 05:30:21 | 03-May-06 22:03 |
| Date and Time Read | 23-Apr-06 09:22:08 | 25-Apr-06 11:15:59 | 27-Apr-06 02:01:00 | 30-Apr-06 09:14:49 | 05-May-06 13:07:06 |

Directional Sensor Information

| | | | | | |
|-----------------------------|--------|--------|--------|--------|----------|
| Tool Type | DM | DM | DM | DM | DM |
| Distance From Bit (m) | 21.55 | 21.00 | 21.00 | 22.23 | 14.06 |
| Software Version | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 |
| Sub Serial Number | 175042 | 175042 | 175042 | 175042 | 10718049 |
| Sonde Serial Number | 133447 | 133447 | 133447 | 133447 | 133447 |
| Sensor ID Number | 133447 | 133447 | 133447 | 133447 | 133447 |
| Survey String Serial Number | N/A | N/A | N/A | N/A | N/A |
| Toolface Offset (deg) | 279 | 256 | 256 | 311 | N/A |

Gamma Ray Sensor Information

| | | | | | |
|------------------------------|--------|--------|--------|--------|----------|
| Tool Type | DGR | DGR | DGR | DGR | DGR |
| Distance From Bit (m) | 13.98 | 13.43 | 13.43 | 14.71 | 5.42 |
| Recorded Sample Period (sec) | 12 | 12 | 12 | 12 | 12 |
| Software Version | N/A | N/A | N/A | N/A | N/A |
| Sub Serial Number | 168140 | 168140 | 168140 | 168140 | 10718409 |
| Insert/Sonde Serial Number | 089766 | 089766 | 089766 | 089766 | 172498 |

Resistivity Sensor Information

| | | | | | |
|----------------------------------|---------|---------|---------|---------|--------|
| Tool Type | EWR-P4D | EWR-P4D | EWR-P4D | EWR-P4D | EWR-P4 |
| Distance From Bit (m) | 16.44 | 15.89 | 15.89 | 17.17 | 7.78 |
| Recorded Sample Period (sec) | 16 | 16 | 16 | 16 | 14 |
| Software Version | 2.00 | 2.00 | 2.00 | 2.00 | 1.38 |
| Sub Serial Number | 147848 | 147848 | 147848 | 147848 | 37661 |
| Receiver Insert Serial Number | 160370 | 160370 | 160370 | 160370 | 205859 |
| Transmitter Insert Serial Number | 107102 | 107102 | 107102 | 107102 | 151389 |
| Receiver Orientation | Down | Down | Down | Down | Down |

Neutron Sensor Information

| | | | | | |
|------------------------------|--|--|--|--|----------|
| Tool Type | | | | | CTN |
| Distance From Bit (m) | | | | | 25.13 |
| Recorded Sample Period (sec) | | | | | 14 |
| Sub Serial Number | | | | | 10507513 |
| Insert Serial Number | | | | | 194156 |
| Source Serial Number | | | | | 0102NN |
| Source Factor | | | | | |
| Pin Orientation | | | | | Up |

Density Sensor Information

| | | | | | |
|------------------------------|--|--|--|--|--------|
| Tool Type | | | | | ALD |
| Distance From Bit (m) | | | | | 19.85 |
| Recorded Sample Period (sec) | | | | | 14 |
| Software Version | | | | | 2.13 |
| Sub Serial Number | | | | | 158552 |
| Insert Serial Number | | | | | 159498 |
| Sensor ID Number | | | | | 23007 |

| | | | | | |
|----------------------------|--|--|--|--|---------|
| Source Serial Number | | | | | 2432GW |
| Pin Orientation | | | | | Up |
| Stabilizer Blade O.D. (mm) | | | | | 304.800 |
| DPA Offset | | | | | 271.00 |

| Caliper Sensor Information | | | | | |
|----------------------------|--|--|--|--|----------|
| Tool Type | | | | | ACAL |
| Distance From Bit (m) | | | | | 23.89 |
| Software Version | | | | | 2.05 |
| Sub Serial Number | | | | | 10507513 |
| Insert Serial Number | | | | | 1 |

| WELL INFORMATION | | | | | |
|--------------------------------|----------------------|--|--|--|--|
| MWD Run Number | 800 | | | | |
| Date run completed | 14-May-06 | | | | |
| Rig Bit Number | 7 | | | | |
| Bit Size (mm) | 311 | | | | |
| Tool Nominal OD (mm) | 203 | | | | |
| Log Start Depth (MD, m) | 2,387.40 | | | | |
| Log End Depth (MD, m) | 2,634.15 | | | | |
| Drill or Wipe | Drilling | | | | |
| Drill/Wipe Start Date and Time | 12-May-06 07:38 | | | | |
| Drill/Wipe End Date and Time | 13-May-06 16:31 | | | | |
| Min Inc (deg) @ Depth (MD, m) | 26.55 @ 2,610.35 | | | | |
| Max Inc (deg) @ Depth (MD, m) | 28.63 @ 2,419.44 | | | | |
| Bit TFA(in2) / Bit Type | 1.977 / Smith MX6397 | | | | |
| Flow Rate (gpm) | 911 | | | | |
| Max AV (mpm) / CV (mpm) @ MWD | 79.1 / 115.5 | | | | |
| Fluid Type | Synteq | | | | |
| Density (sg) / Viscosity (spl) | 1.24 / 98.00 | | | | |
| Filtrate CL (ppm) | 35700 | | | | |
| pH / Fluid Loss (mptm) | N/A / 4.4 | | | | |
| PV (cp) / YP (pa) | 45 / 26 | | | | |
| % Solids / % Sand | 13.2 / 0.50 | | | | |
| % Oil / Oil:Water Ratio | 58 / 68:32 | | | | |
| Rm @ Measured Temp (degC) | N/A @ N/A | | | | |
| Rmf @ Measured Temp (degC) | N/A @ N/A | | | | |
| Rmc @ Measured Temp (degC) | N/A @ N/A | | | | |
| Max Tool Temp (degC) / Source | 94 / EWR-P4 | | | | |
| Rm @ Max Tool Temp (degC) | N/A @ 94 | | | | |
| Lead MWD Engineer | M. Lee | | | | |
| Customer Representative | S. Job | | | | |

SENSOR INFORMATION

| Downhole Processor Information | | | | | |
|--------------------------------|--------------------|--|--|--|--|
| Tool Type | HCIM | | | | |
| Software Version | 68.18 | | | | |
| Sub Serial Number | 152862 | | | | |
| Insert Serial Number | 134502 | | | | |
| Logging String Serial Number | DM90103157HWRG | | | | |
| Date and Time Initialized | 11-May-06 23:14 | | | | |
| Date and Time Read | 14-May-06 07:05:32 | | | | |

| Directional Sensor Information | | | | | |
|--------------------------------|----------|--|--|--|--|
| Tool Type | DM | | | | |
| Distance From Bit (m) | 14.05 | | | | |
| Software Version | 3.15 | | | | |
| Sub Serial Number | 10718049 | | | | |

| | | | | | |
|-----------------------------|--------|--|--|--|--|
| Sonde Serial Number | 133447 | | | | |
| Sensor ID Number | 133447 | | | | |
| Survey String Serial Number | N/A | | | | |
| Toolface Offset (deg) | N/A | | | | |

| Gamma Ray Sensor Information | | | | | |
|------------------------------|--|--|--|--|--|
|------------------------------|--|--|--|--|--|

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|------------------------------|----------|--|--|--|--|
| Tool Type | DGR | | | | |
| Distance From Bit (m) | 5.41 | | | | |
| Recorded Sample Period (sec) | 12 | | | | |
| Software Version | N/A | | | | |
| Sub Serial Number | 10718409 | | | | |
| Insert/Sonde Serial Number | 172498 | | | | |

| Resistivity Sensor Information | | | | | |
|--------------------------------|--|--|--|--|--|
|--------------------------------|--|--|--|--|--|

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|----------------------------------|--------|--|--|--|--|
| Tool Type | EWR-P4 | | | | |
| Distance From Bit (m) | 7.77 | | | | |
| Recorded Sample Period (sec) | 14 | | | | |
| Software Version | 1.38 | | | | |
| Sub Serial Number | 37661 | | | | |
| Receiver Insert Serial Number | 205859 | | | | |
| Transmitter Insert Serial Number | 151389 | | | | |
| Receiver Orientation | Down | | | | |

| Neutron Sensor Information | | | | | |
|----------------------------|--|--|--|--|--|
|----------------------------|--|--|--|--|--|

| | | | | | |
|------------------------------|----------|--|--|--|--|
| Tool Type | CTN | | | | |
| Distance From Bit (m) | 25.12 | | | | |
| Recorded Sample Period (sec) | 14 | | | | |
| Sub Serial Number | 10507513 | | | | |
| Insert Serial Number | 194156 | | | | |
| Source Serial Number | 0102NN | | | | |
| Source Factor | | | | | |
| Pin Orientation | Up | | | | |

| Density Sensor Information | | | | | |
|----------------------------|--|--|--|--|--|
|----------------------------|--|--|--|--|--|

| | | | | | |
|------------------------------|---------|--|--|--|--|
| Tool Type | ALD | | | | |
| Distance From Bit (m) | 19.65 | | | | |
| Recorded Sample Period (sec) | 14 | | | | |
| Software Version | 2.13 | | | | |
| Sub Serial Number | 158552 | | | | |
| Insert Serial Number | 159498 | | | | |
| Sensor ID Number | 23007 | | | | |
| Source Serial Number | 2432GW | | | | |
| Pin Orientation | Up | | | | |
| Stabilizer Blade O.D. (mm) | 304.800 | | | | |
| DPA Offset | 271.00 | | | | |

| Caliper Sensor Information | | | | | |
|----------------------------|--|--|--|--|--|
|----------------------------|--|--|--|--|--|

| | | | | | |
|-----------------------|----------|--|--|--|--|
| Tool Type | ACAL | | | | |
| Distance From Bit (m) | 23.88 | | | | |
| Software Version | 2.05 | | | | |
| Sub Serial Number | 10507513 | | | | |
| Insert Serial Number | 1 | | | | |

| REMARKS | | | | | |
|---------|--|--|--|--|--|
|---------|--|--|--|--|--|

- 1.) All depths are bit depths and are referenced to the driller's pipe tally unless otherwise noted.
- 2.) AV/CV values are calculated at the LWD collar using the Bingham Plastic Model for oil based mud, measured in m / min.

3.) Curve Mnemonics used are:

- SGRC - Smoothed Combined Gamma Ray, api
- SROP - Smoothed Rate of Penetration, m/hr
- SEXP - Smoothed Extra-Shallow Phase Resistivity, ohm-metre
- SESP - Smoothed Shallow Phase Resistivity, ohm-metre
- SEMP - Smoothed Medium Phase Resistivity, ohm-metre
- SEDP - Smoothed Deep Phase Resistivity, ohm-metre
- ACAL - Smoothed Acoustic Caliper Hole Size, inches
- SCO2 - Smoothed Stand Off Correction Low Count Rate, g/cc
- SBD2 - Smoothed Bulk Density Compensated Low Count Rate, g/cc
- SNP2 - Smoothed Rapid Sample Near Detector Pe, barns/electron
- TNPL - Smoothed Thermal Neutron Porosity - Limestone Matrix, v/v
- BATC - Smoothed Bi-Modal Acoustic Compressional Slowness, microsec/foot

4.) CTN data processed using the following parameters and is based on a Limestone matrix:

- MW = 1.24 - 1.27 sg
- Mud Salinity = 27,500 - 34,560 ppm Cl
- Matrix Density = 2.71 g/cc
- Fluid Density = 1.00 g/cc
- Formation Salinity = 5,000 ppm Cl

5.) CTN data has been reprocessed using hole size derived from the ACAL (Acoustic Caliper) tool.

6.) Data from 1763.9 to 1775.7 mMDRT bit depth is missing due to slip switch failure.

7.) ROP data between 1777.5 and 1792.5 mMDRT from WITS recieved.

8.) Cored interval from 2387.42 to 2596.04 mMDRT was logged while running in hole during run 800 with pumps on and rotating.

9.) ROP data from 2387.02 to 2596.04 mMDRT was obtained from Geoservices during coring.

10.) Gamma Data was recorded behind casing 2225.3 to 2230.0 mMDRT.

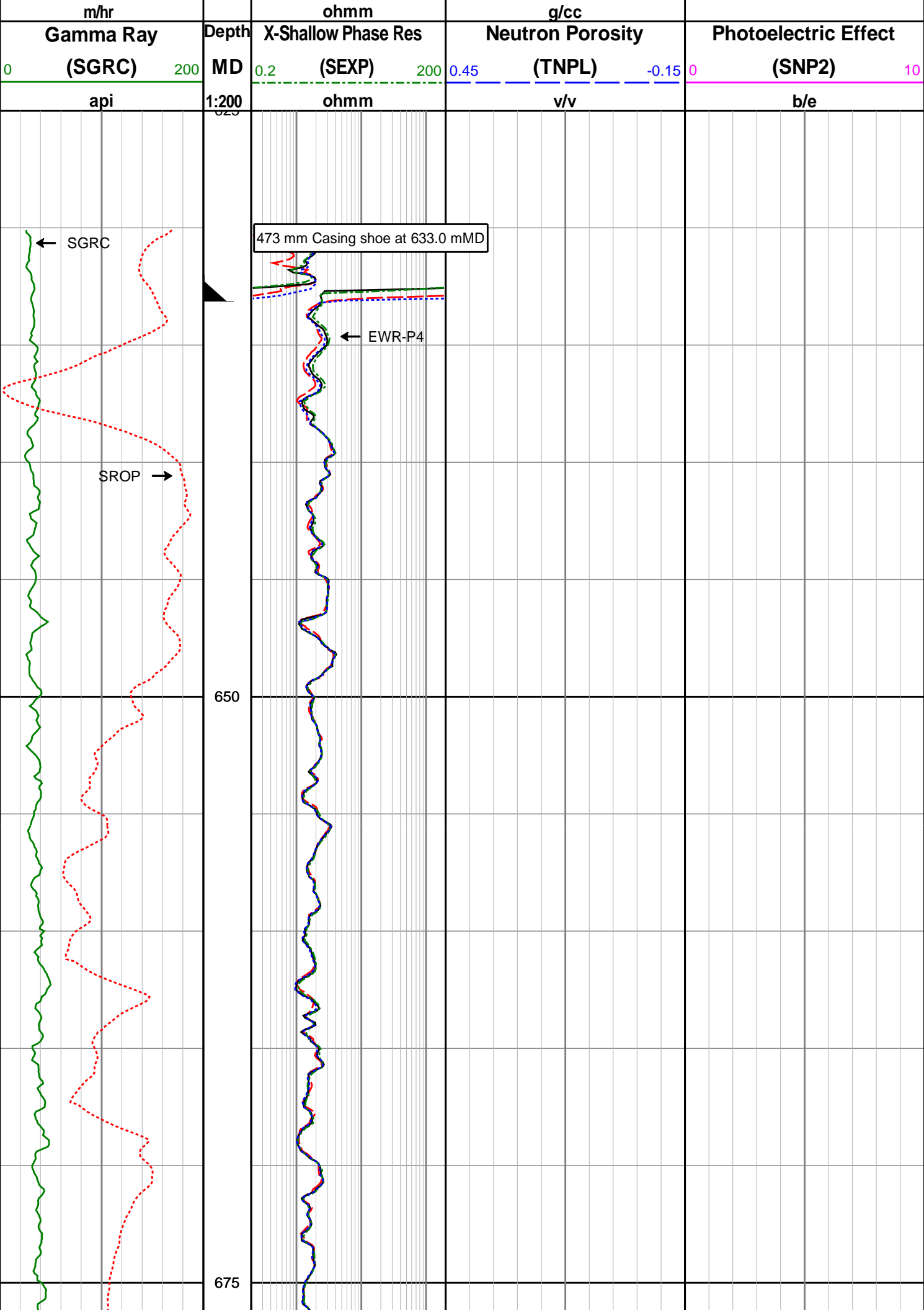
11.) Hole washed out at 340 mm Casing shoe at 2230.0 mMDRT.

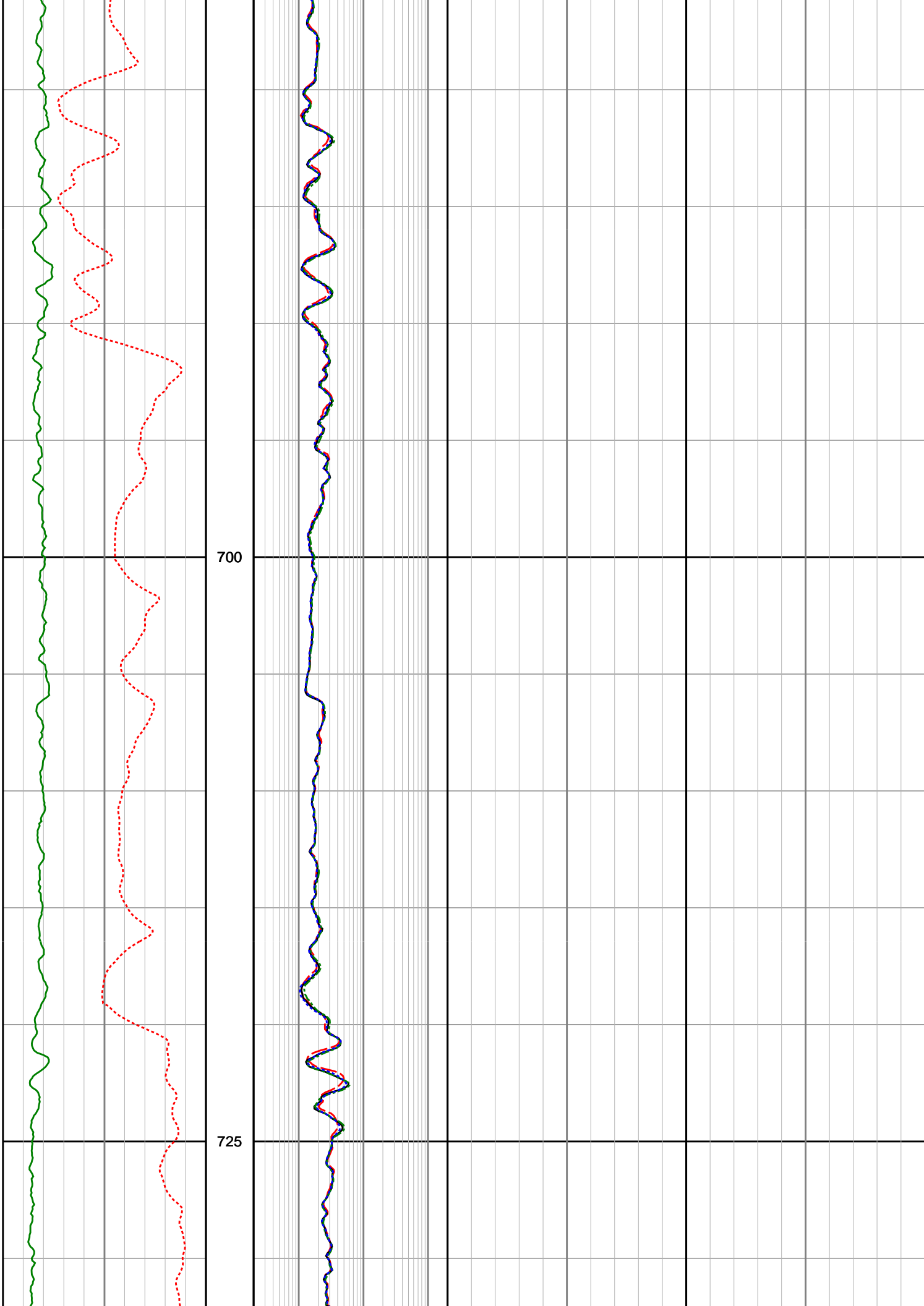
12.) Depth has been corrected from the original recoded depth to incorporate a depth shift due to a tally error.
See the end of well report for further details.

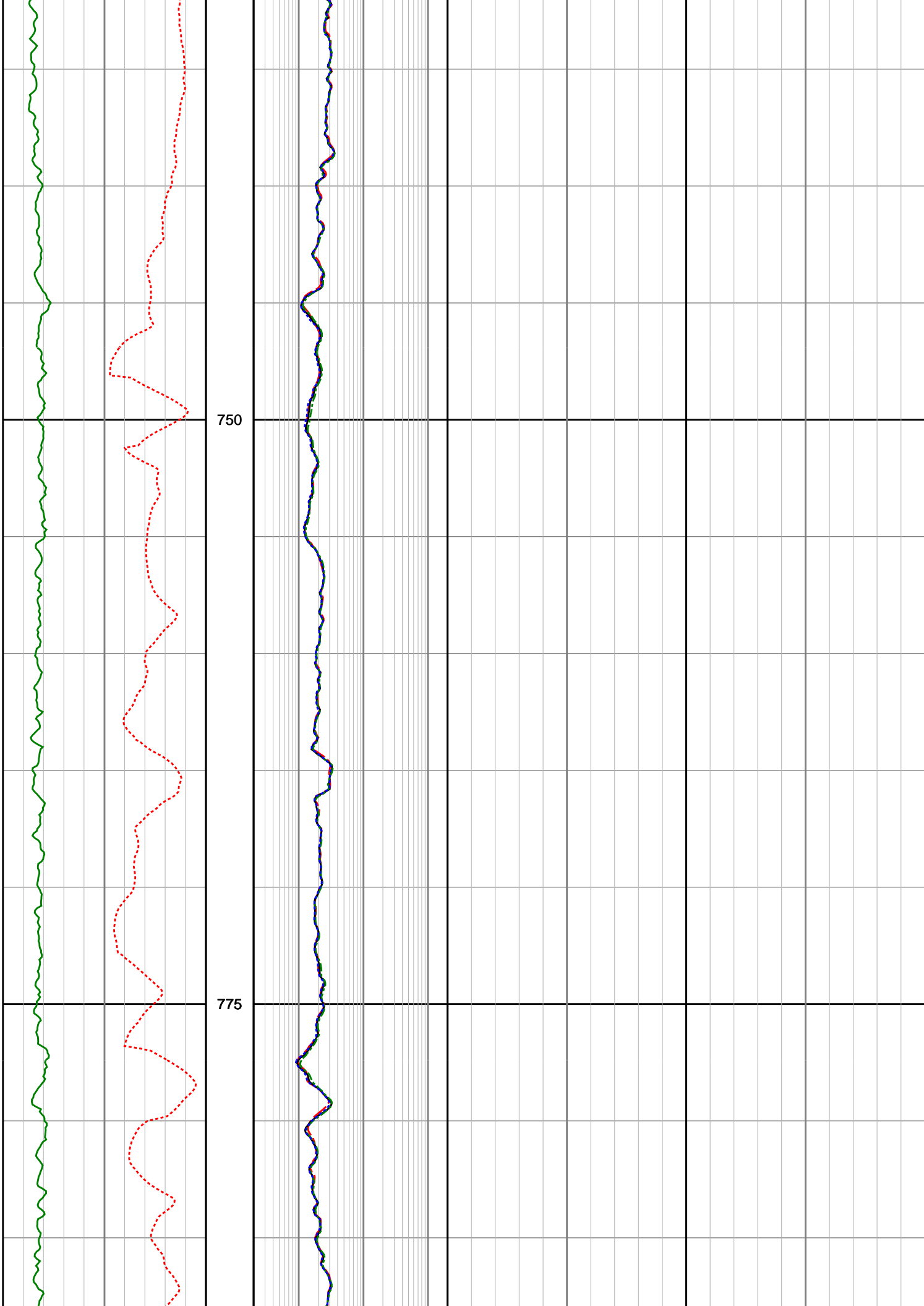
WARRANTY

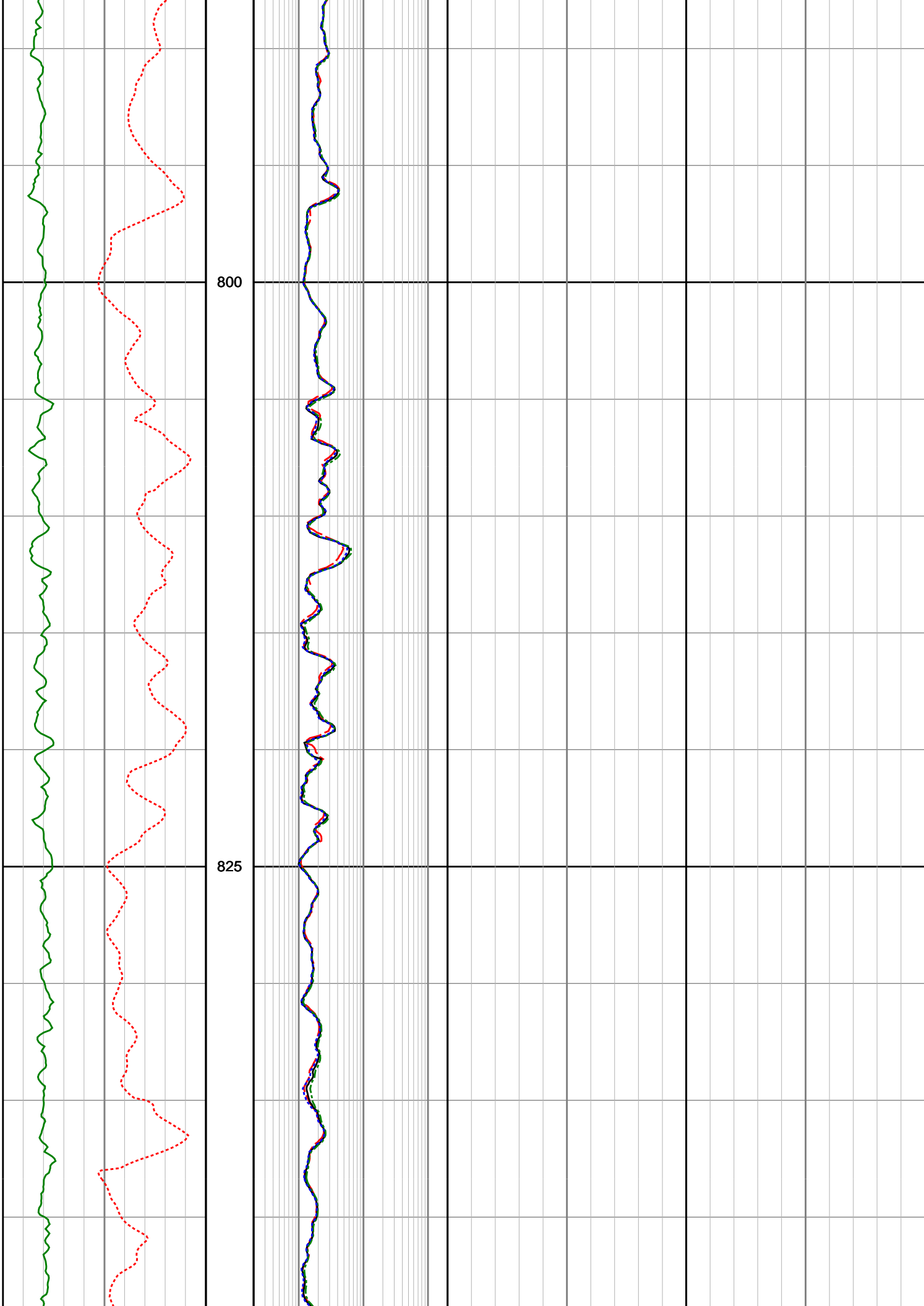
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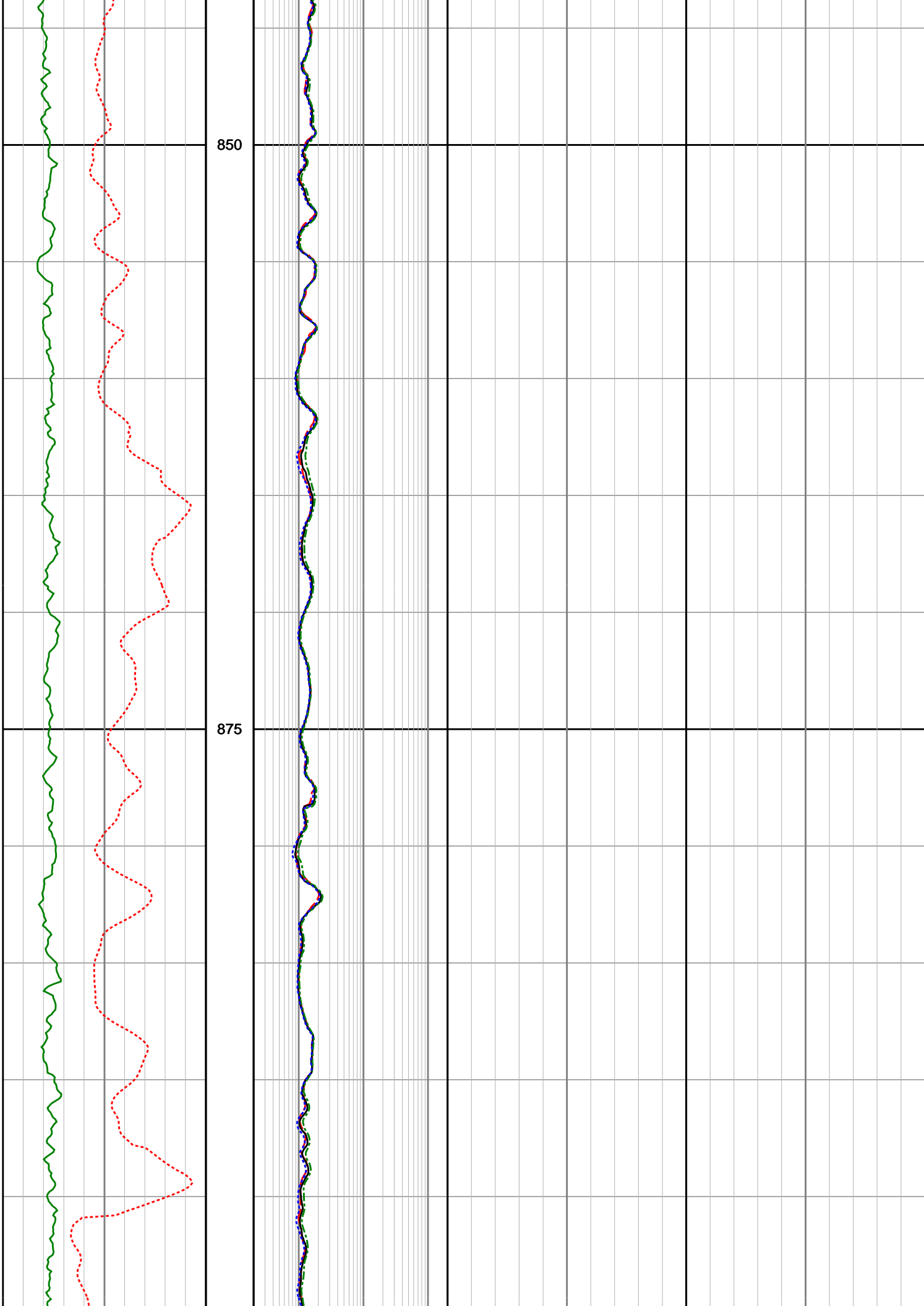
| | | | | | |
|---------------------|--------|-------------------|--------|---------------------|--------|
| | | Deep Phase Res | | | |
| | | 0.2 | (SEDP) | 200 | |
| | | ohmm | | | |
| Acoustic Caliper | | Medium Phase Res | | Standoff Correction | |
| 10 | (ACAL) | 20 | 0.2 | (SEMP) | 200 |
| | | ohmm | | -0.75 | (SCO2) |
| inches | | | | g/cc | |
| Rate of Penetration | | Shallow Phase Res | | Bulk Density | |
| 100 | (SROP) | 0 | 0.2 | (SESP) | 200 |
| | | | | 1.95 | (SBD2) |
| | | | | 2.95 | |

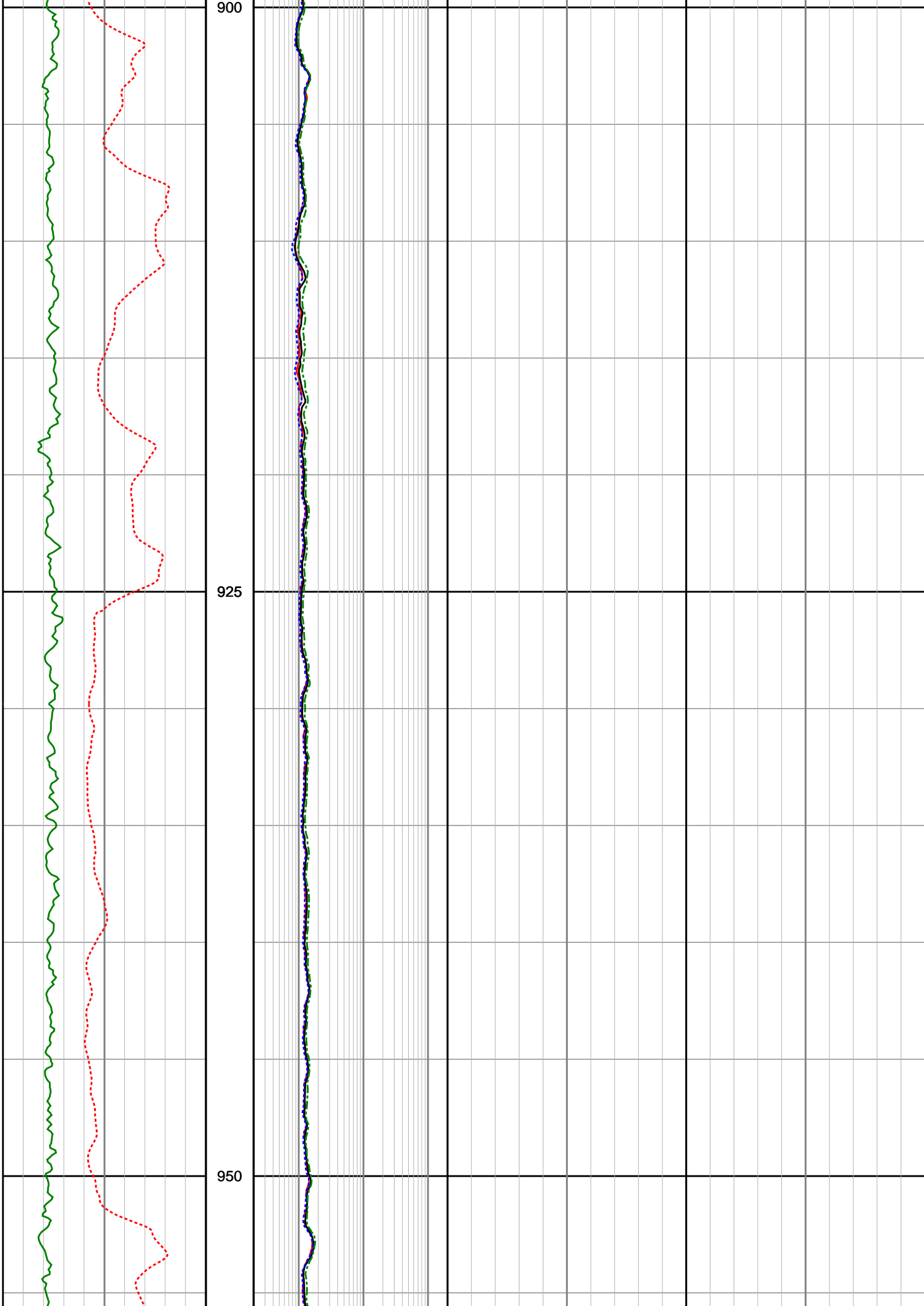


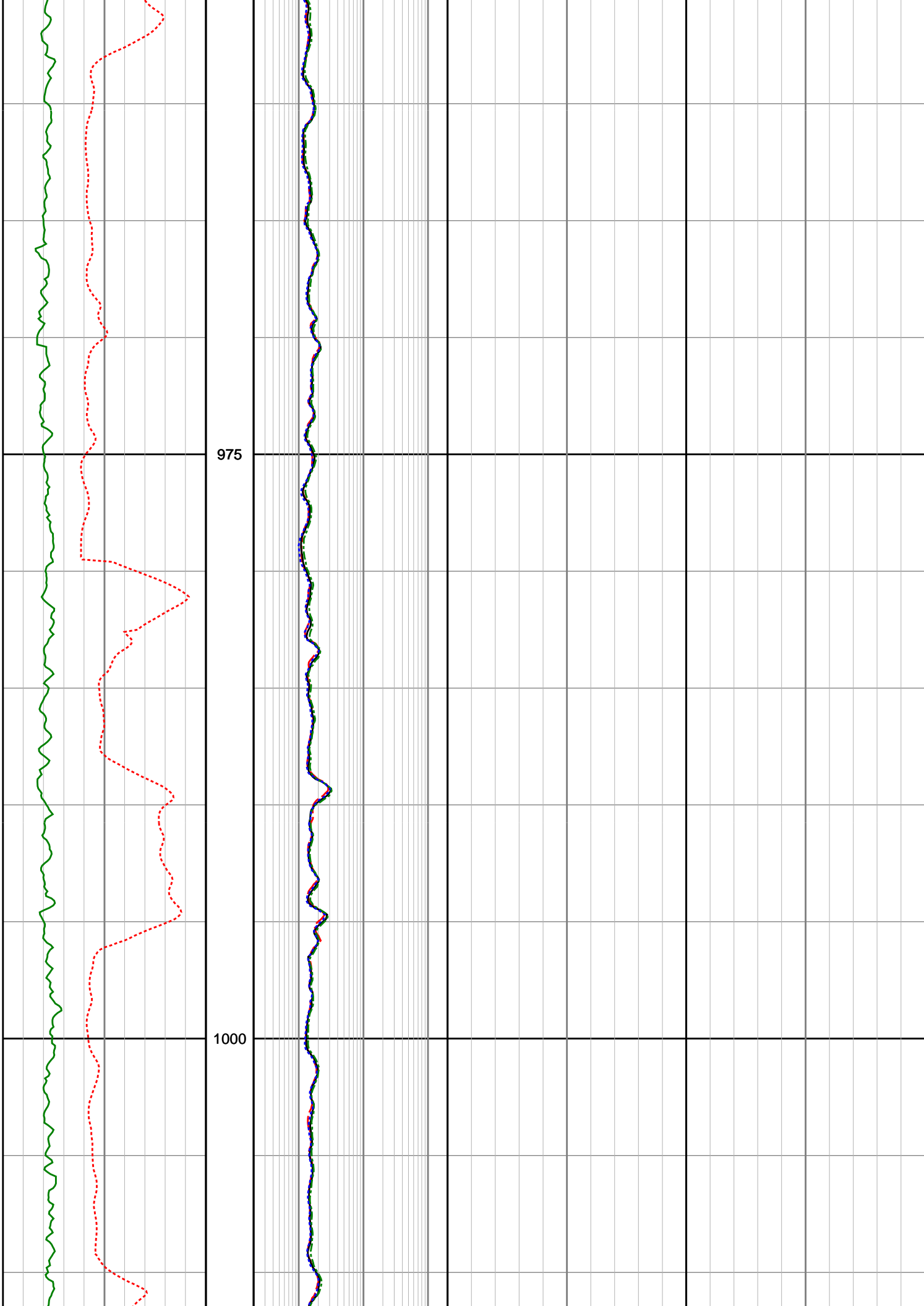


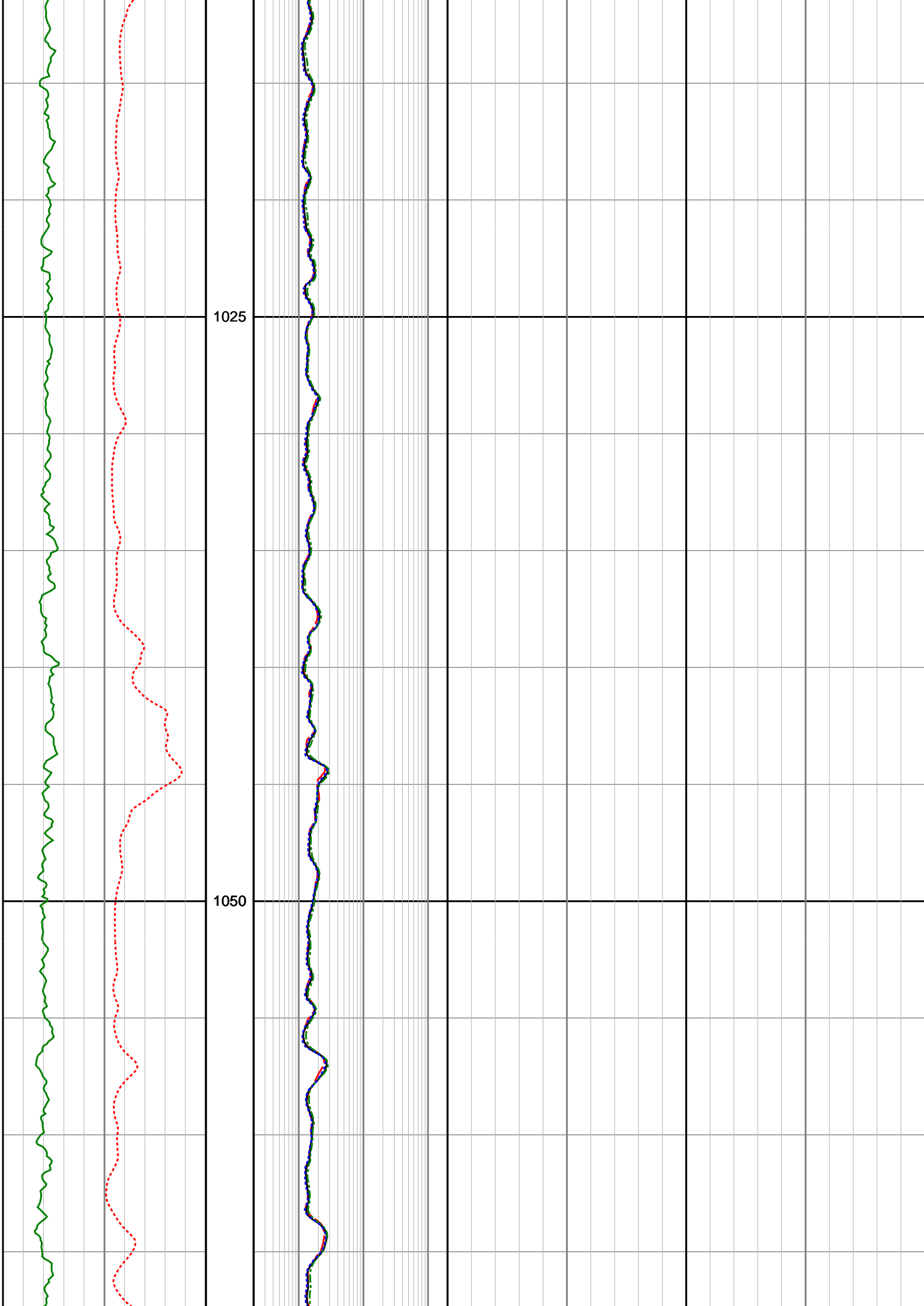


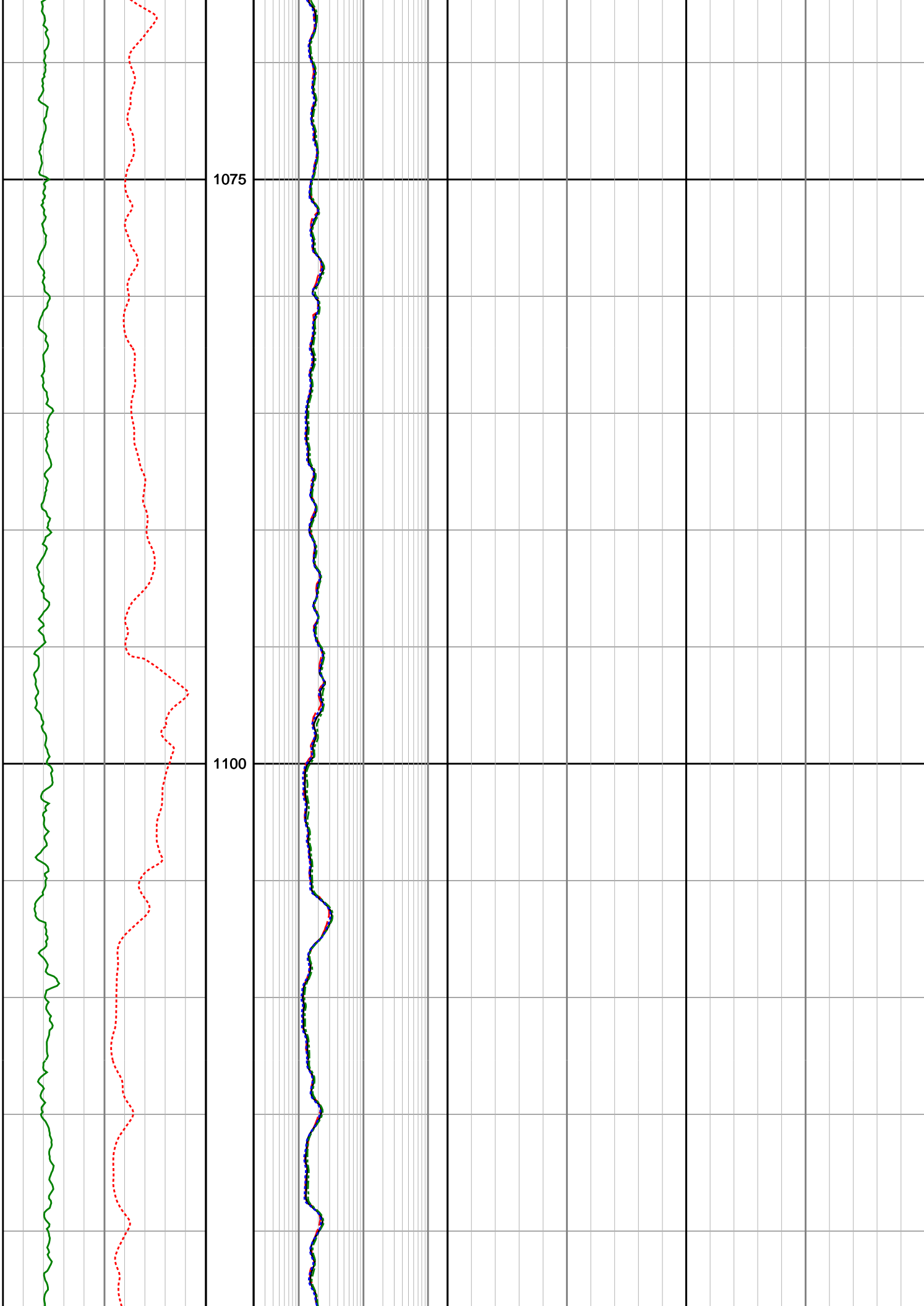


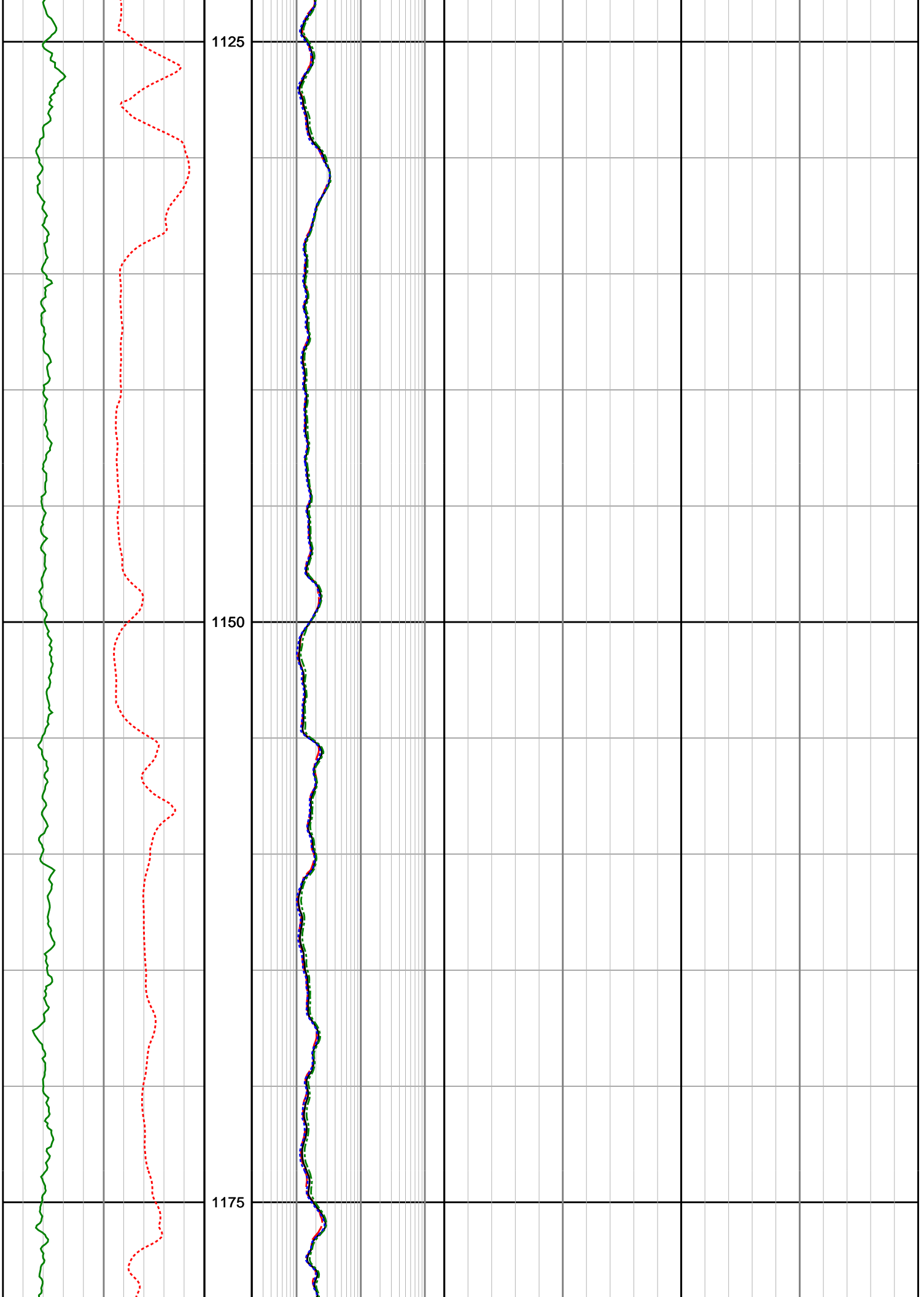


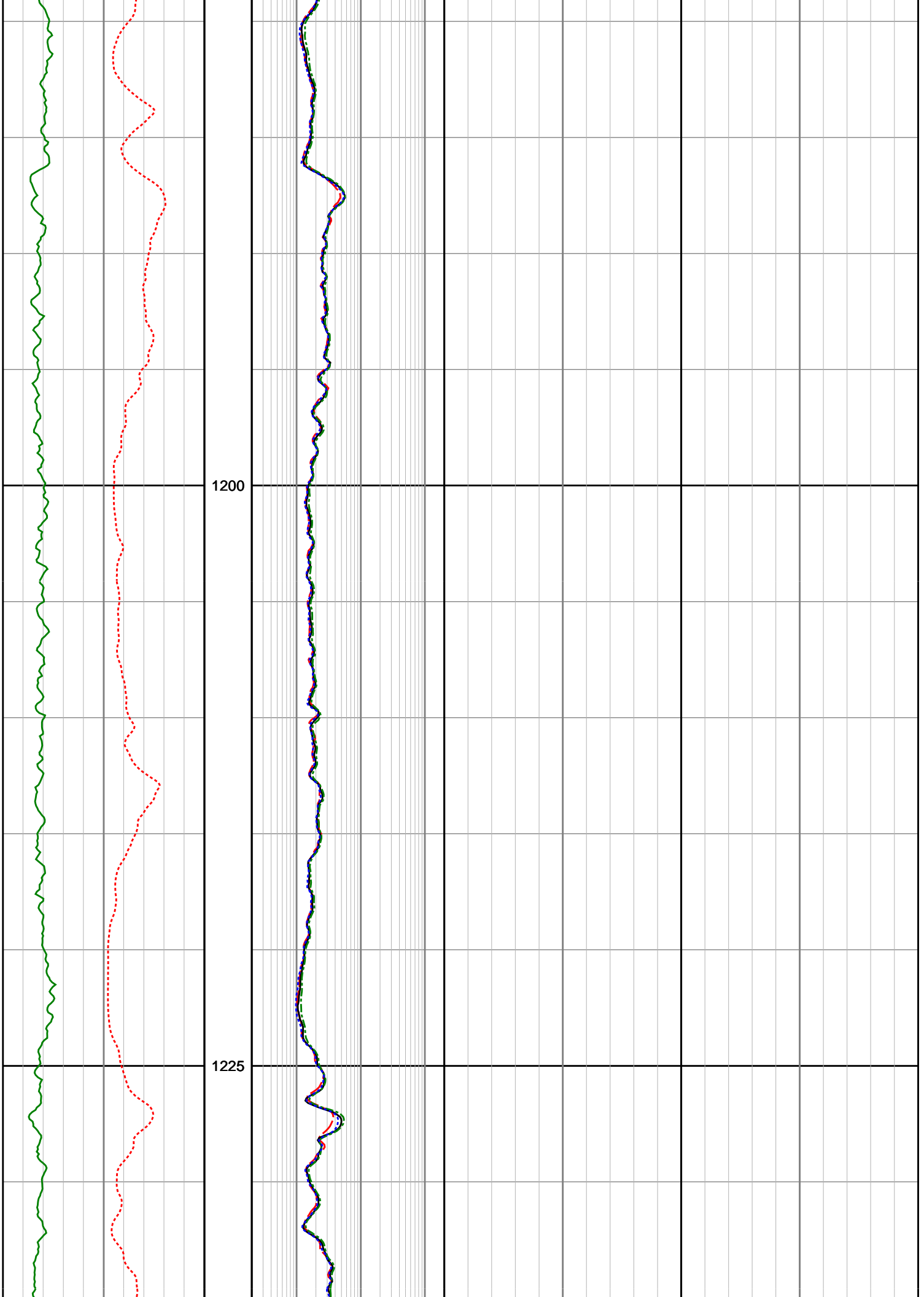


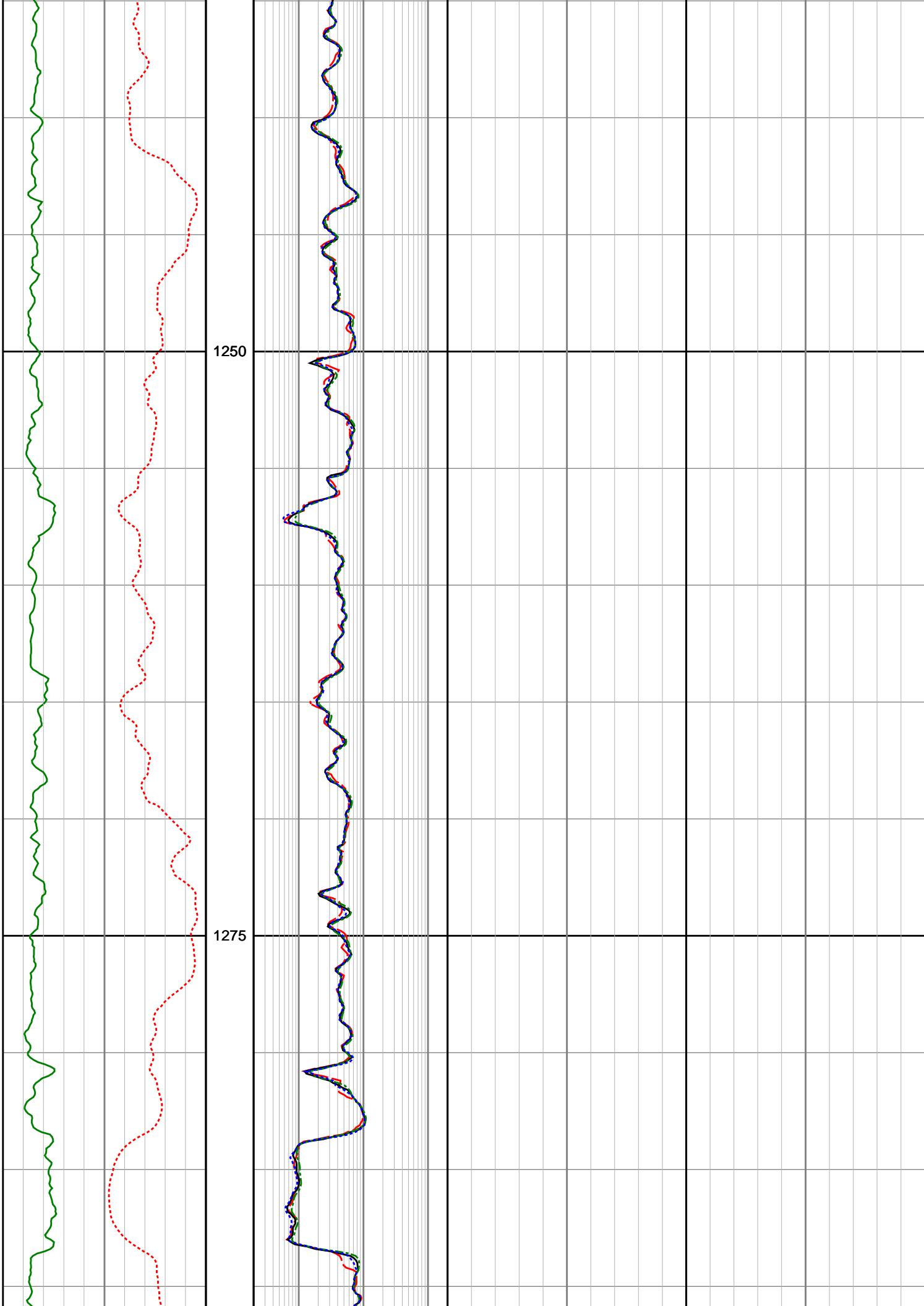


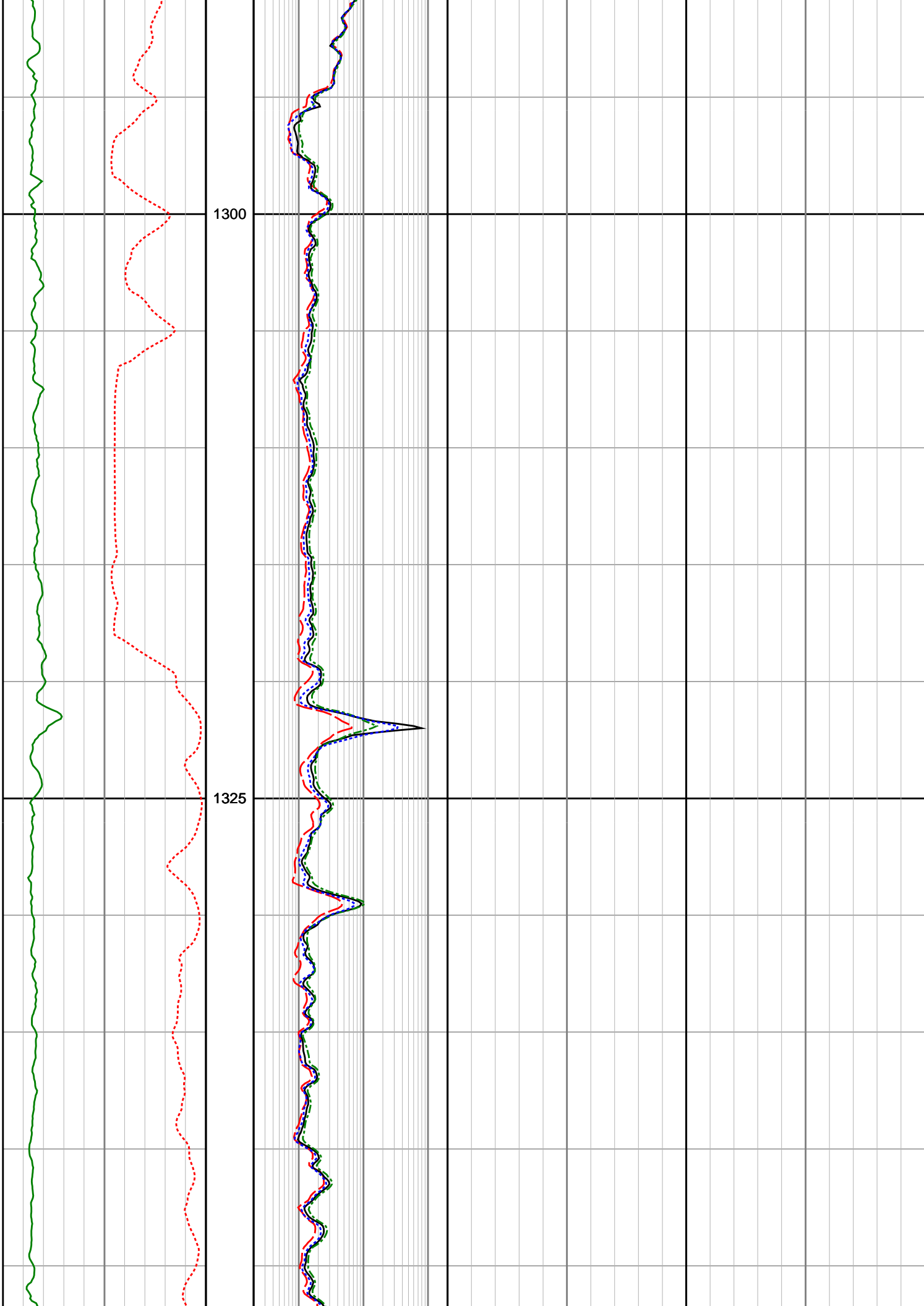


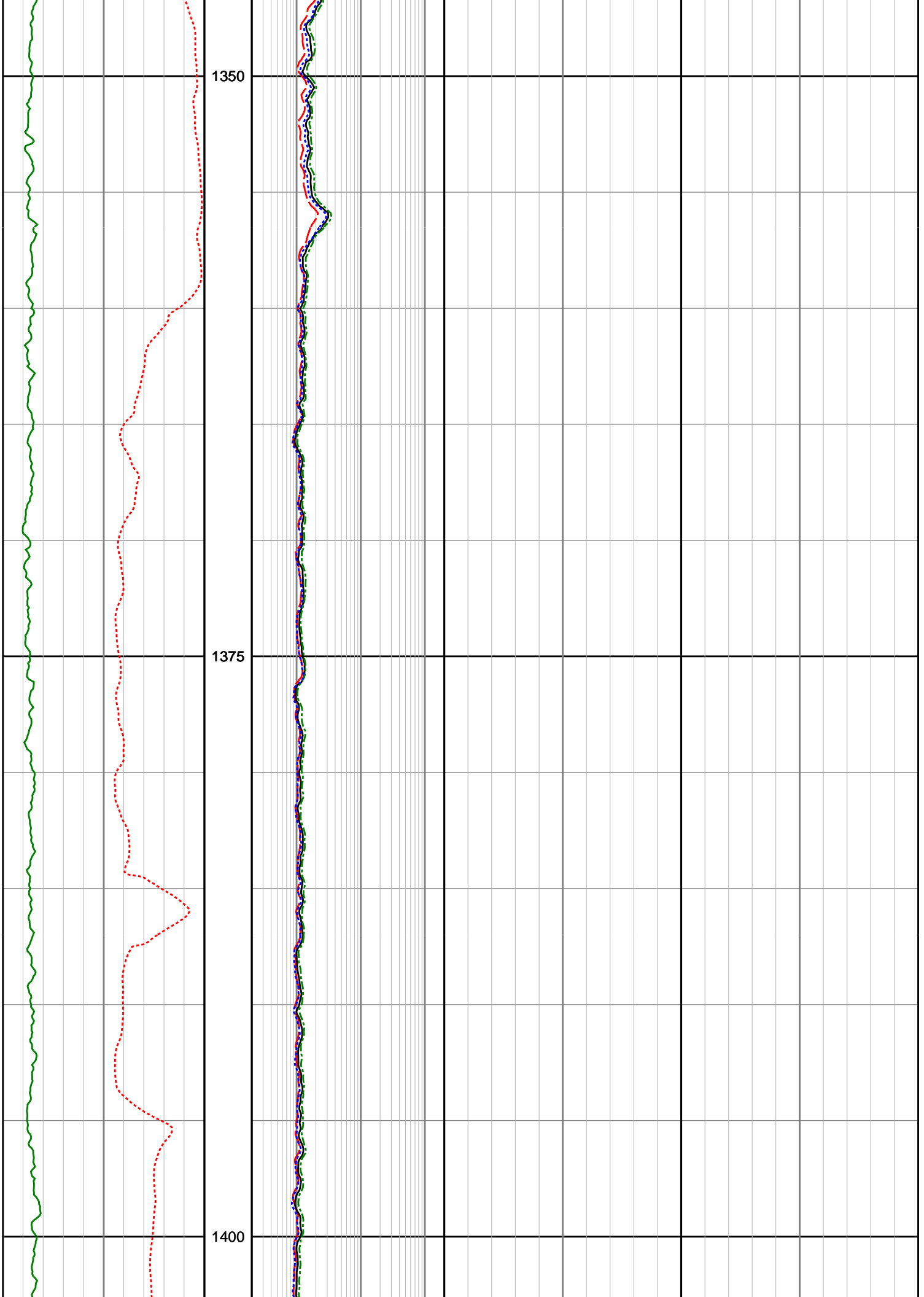


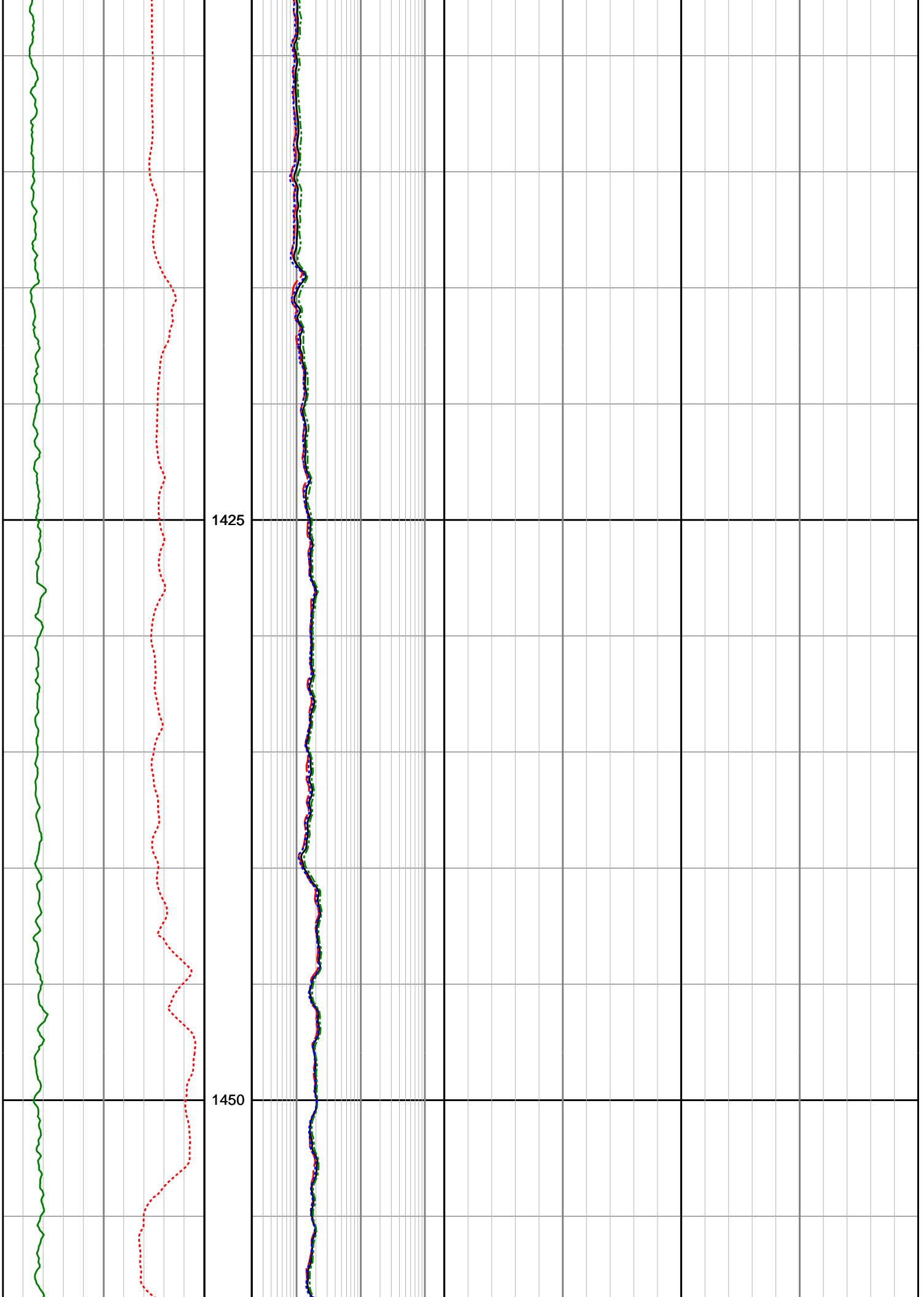


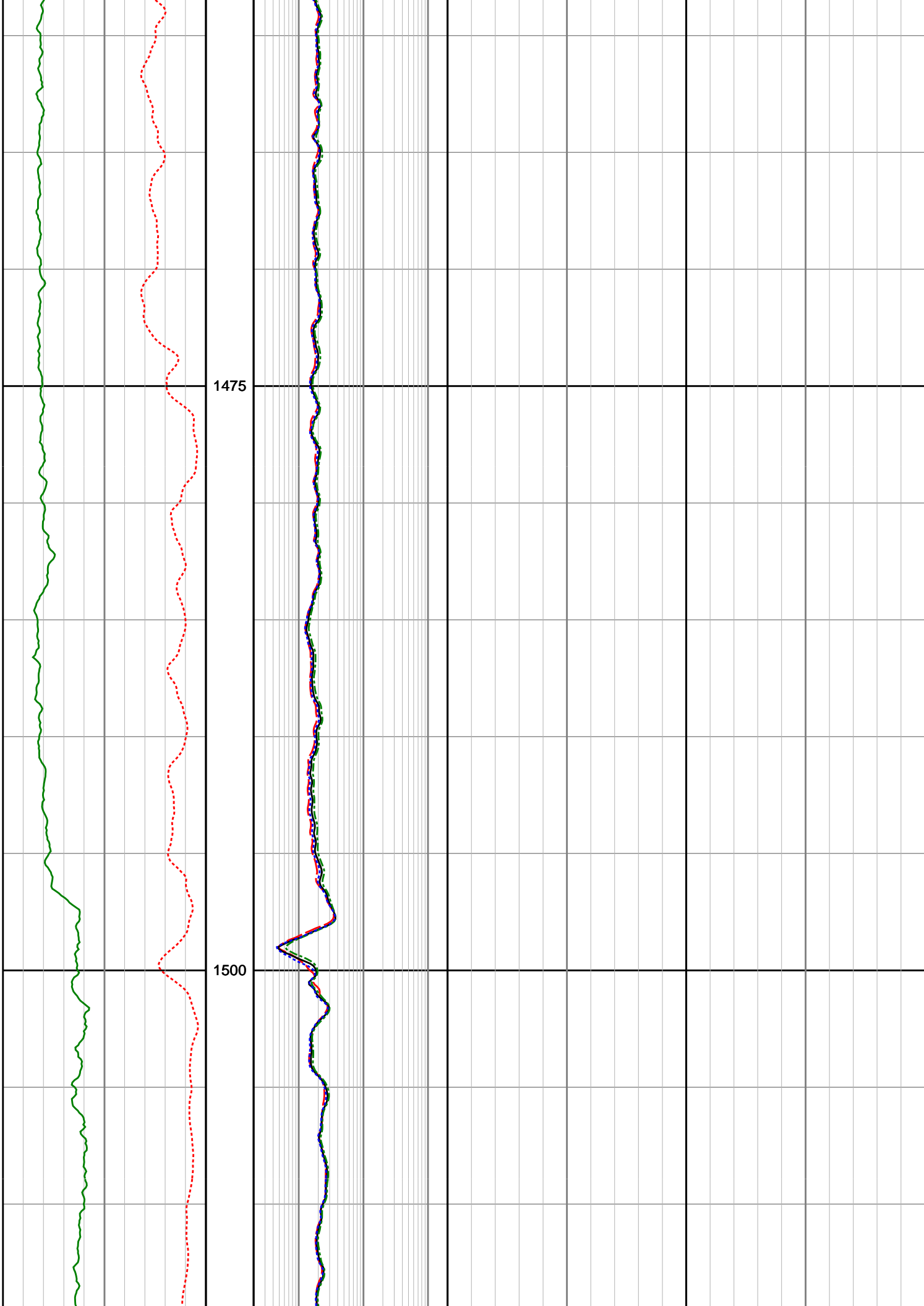


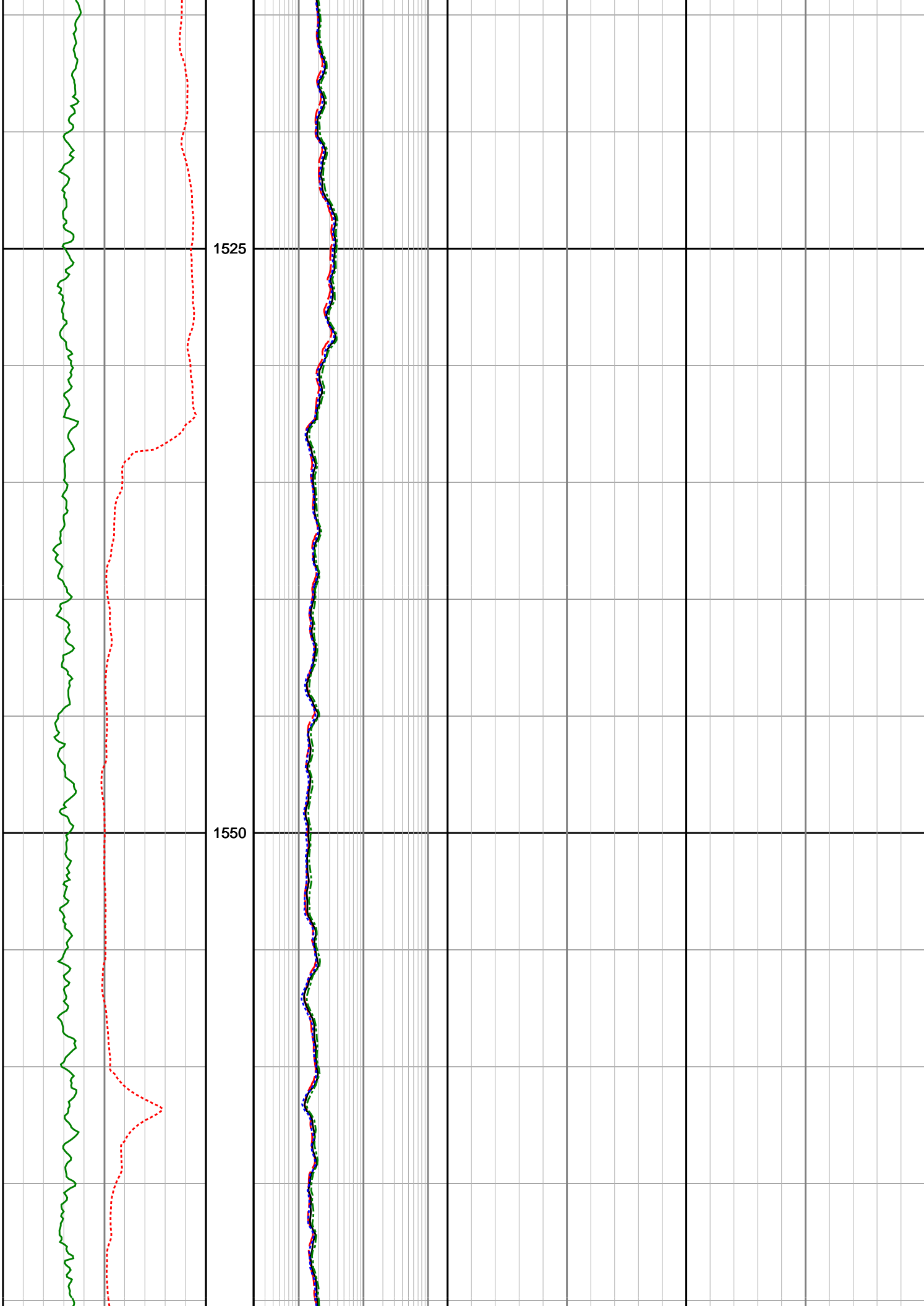


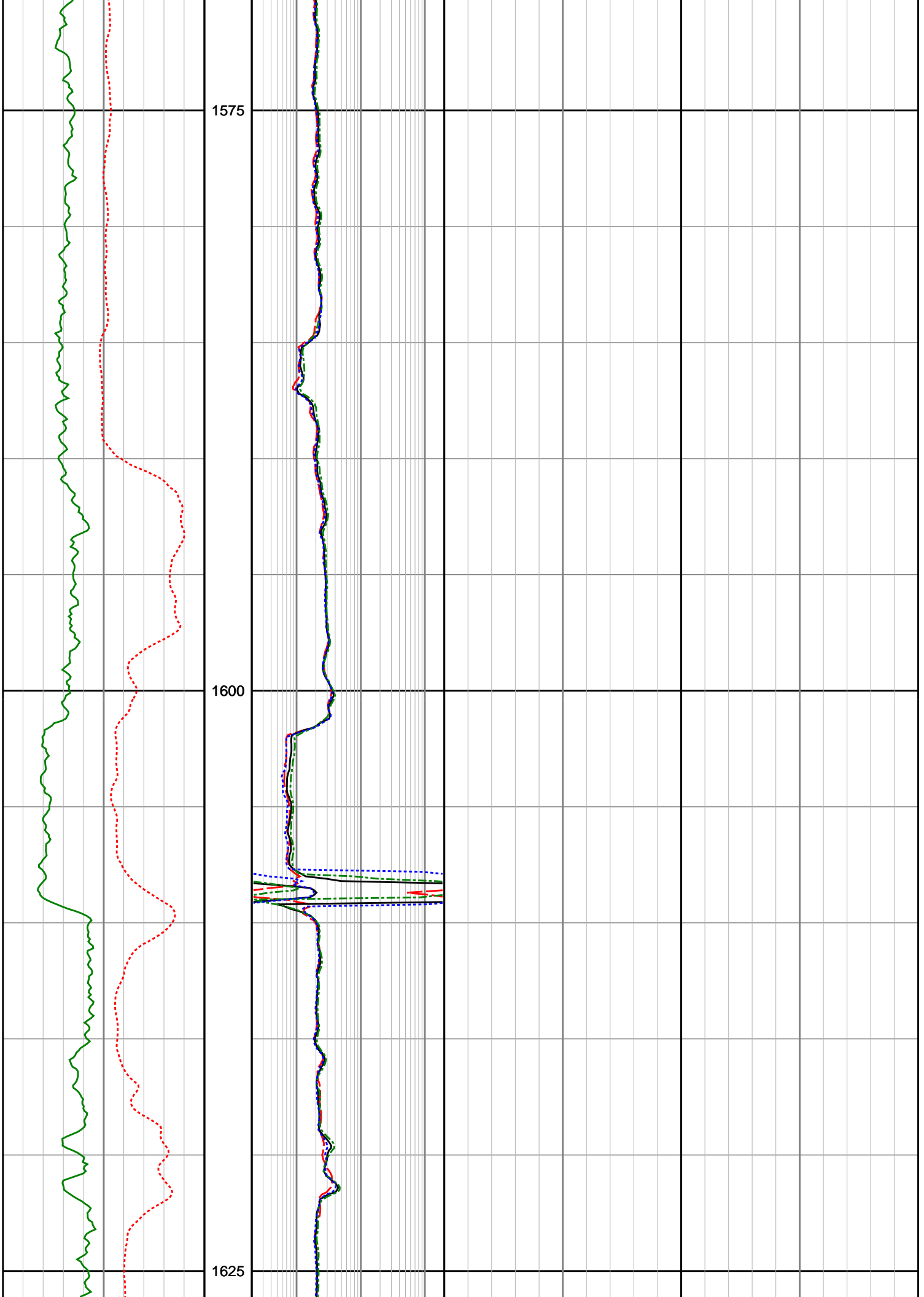


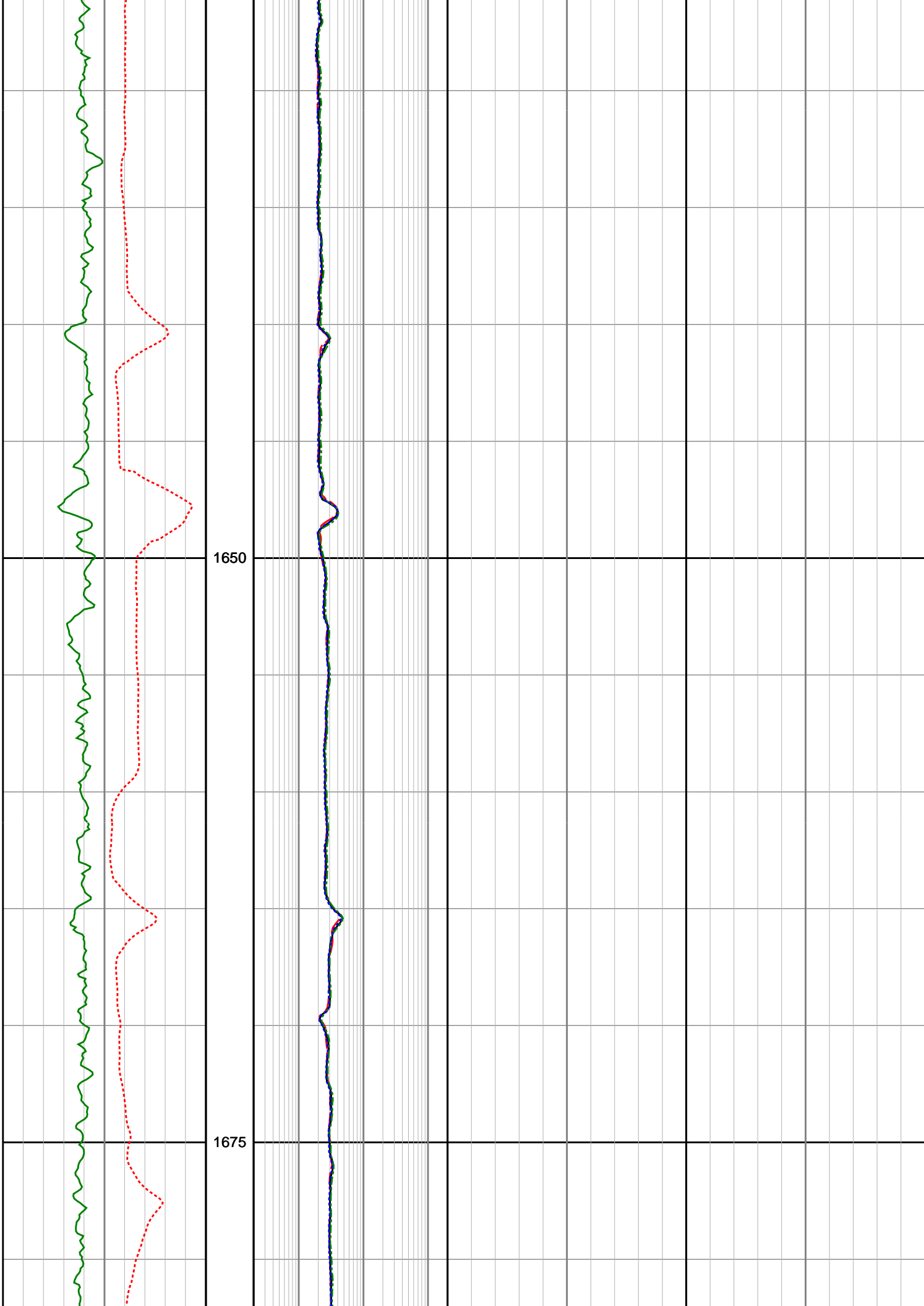


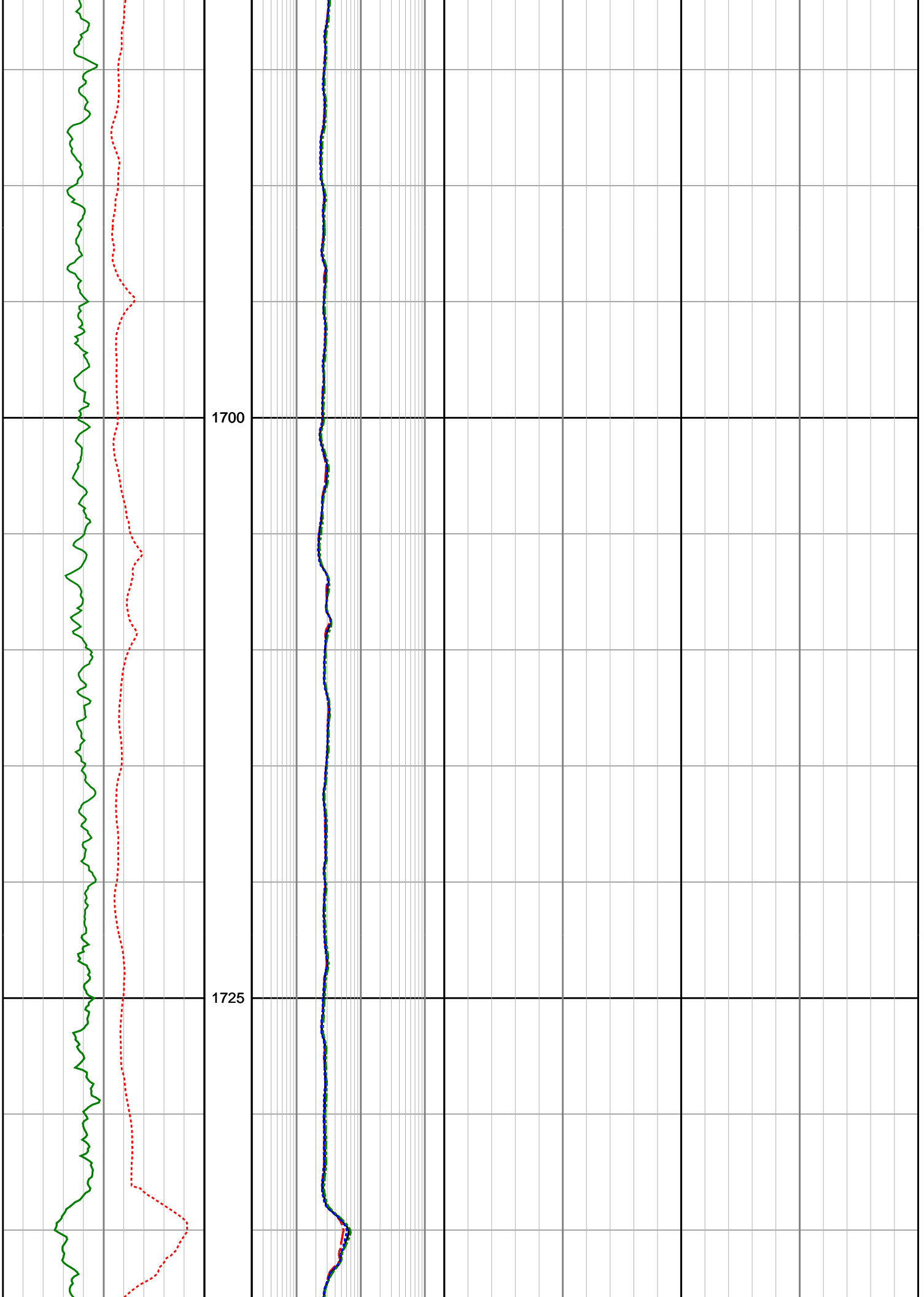


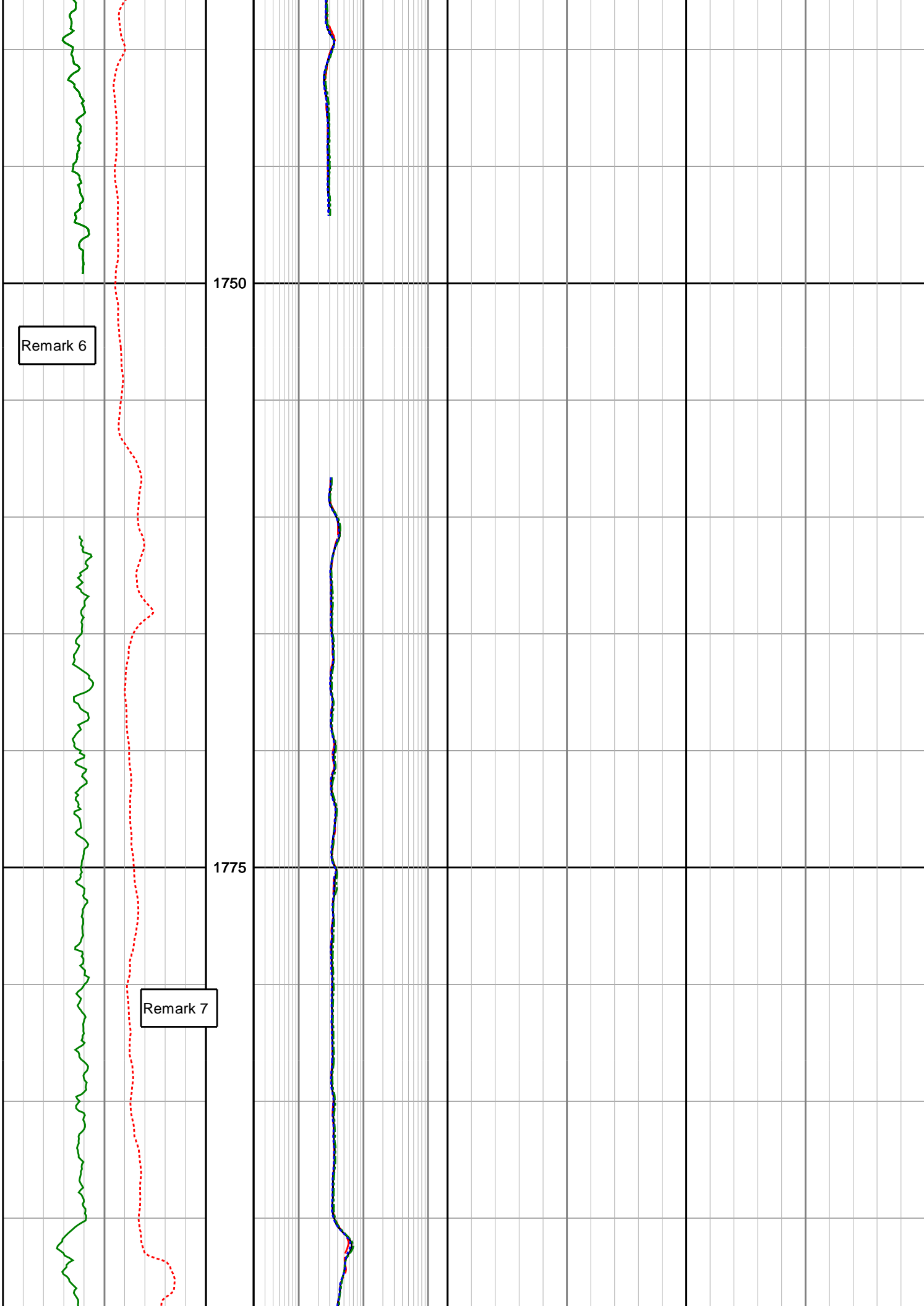






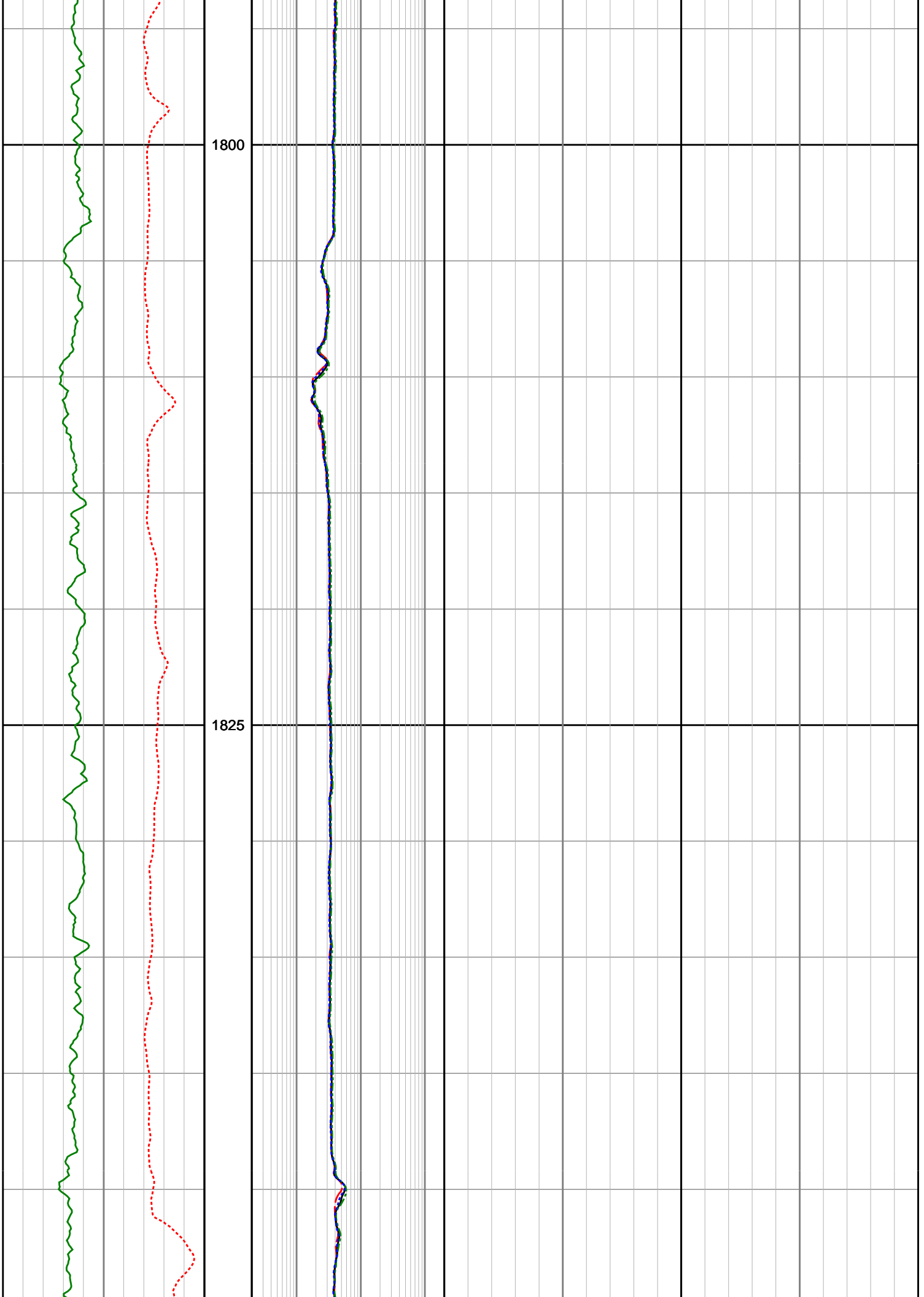


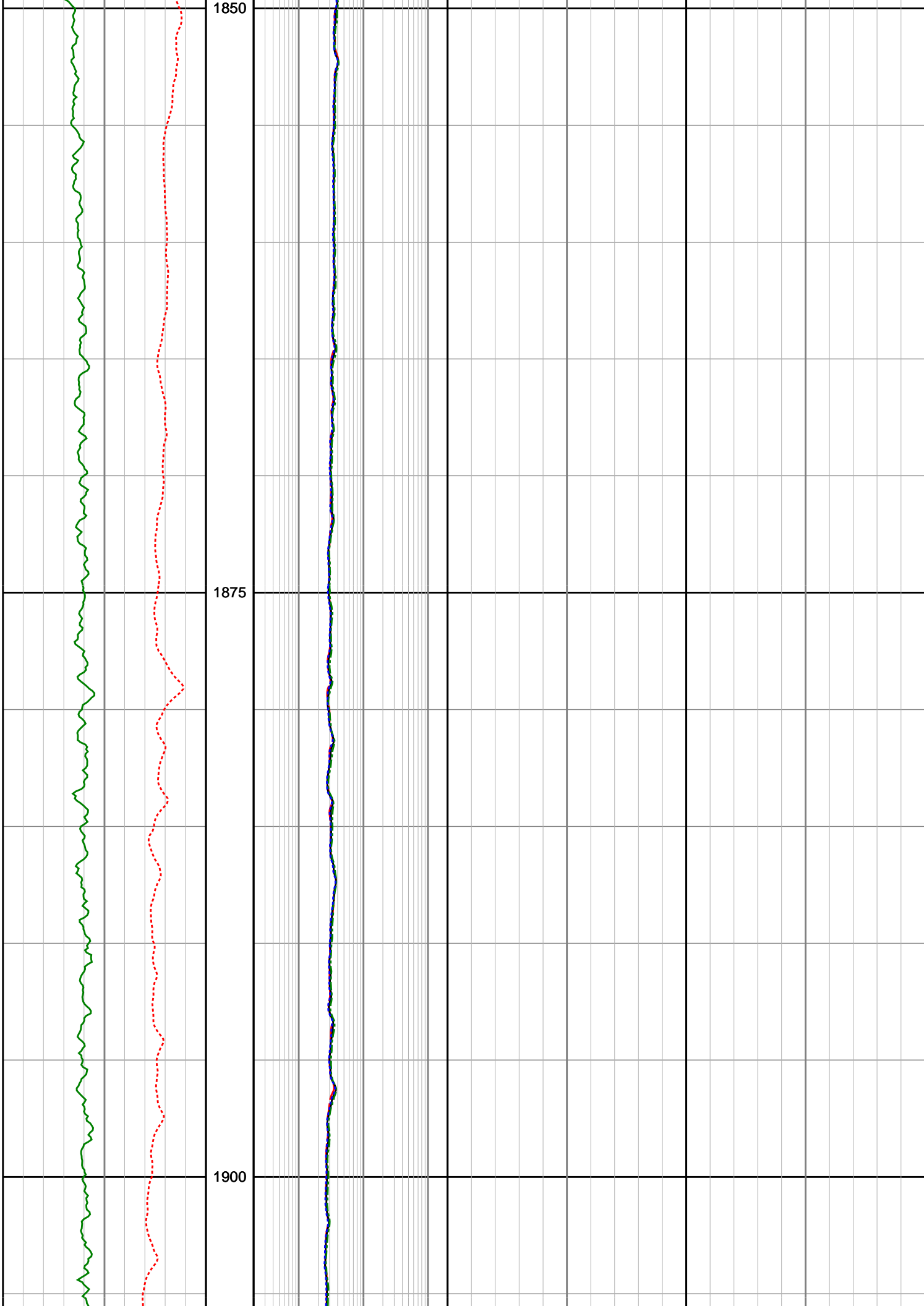


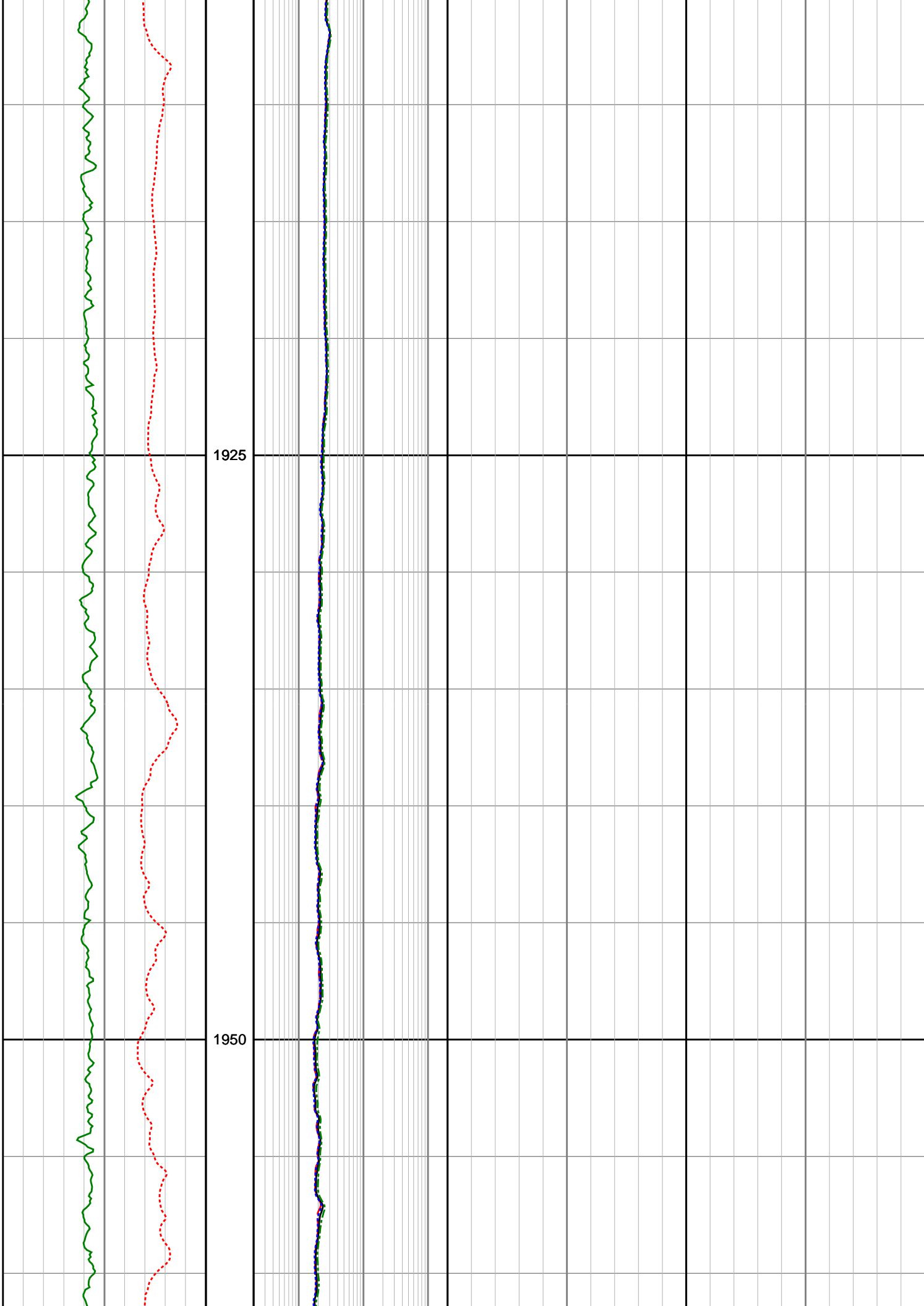


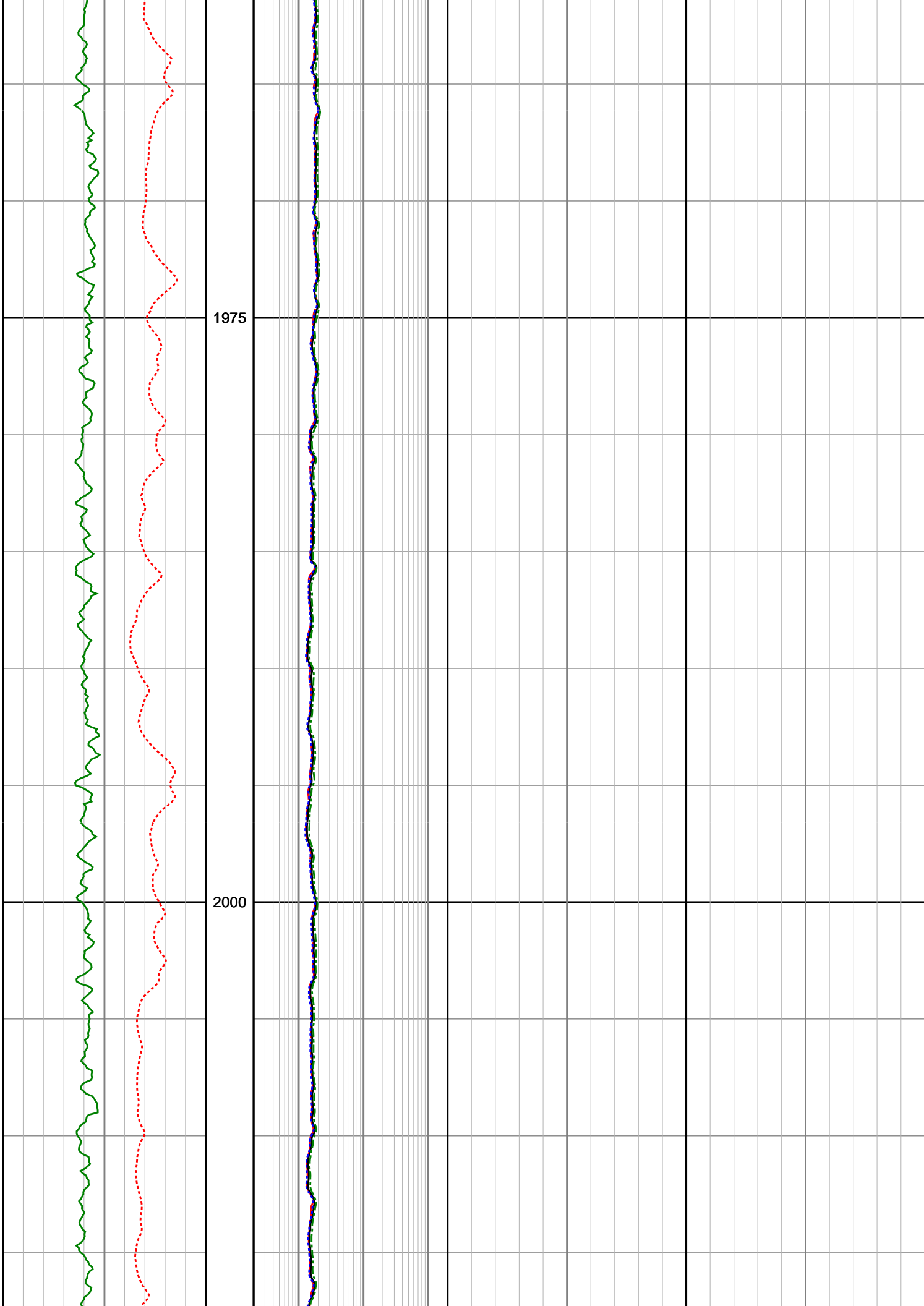
Remark 6

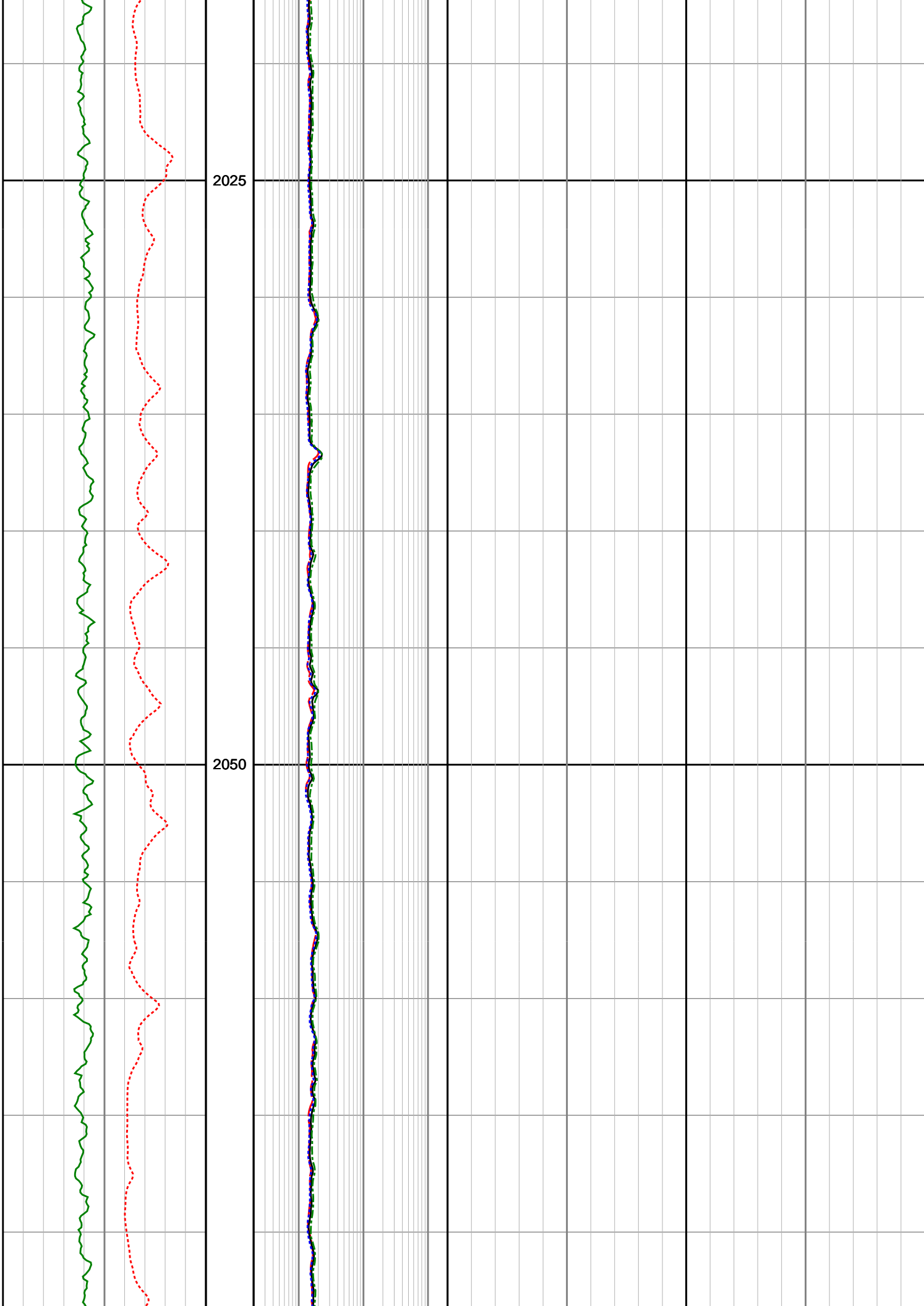
Remark 7

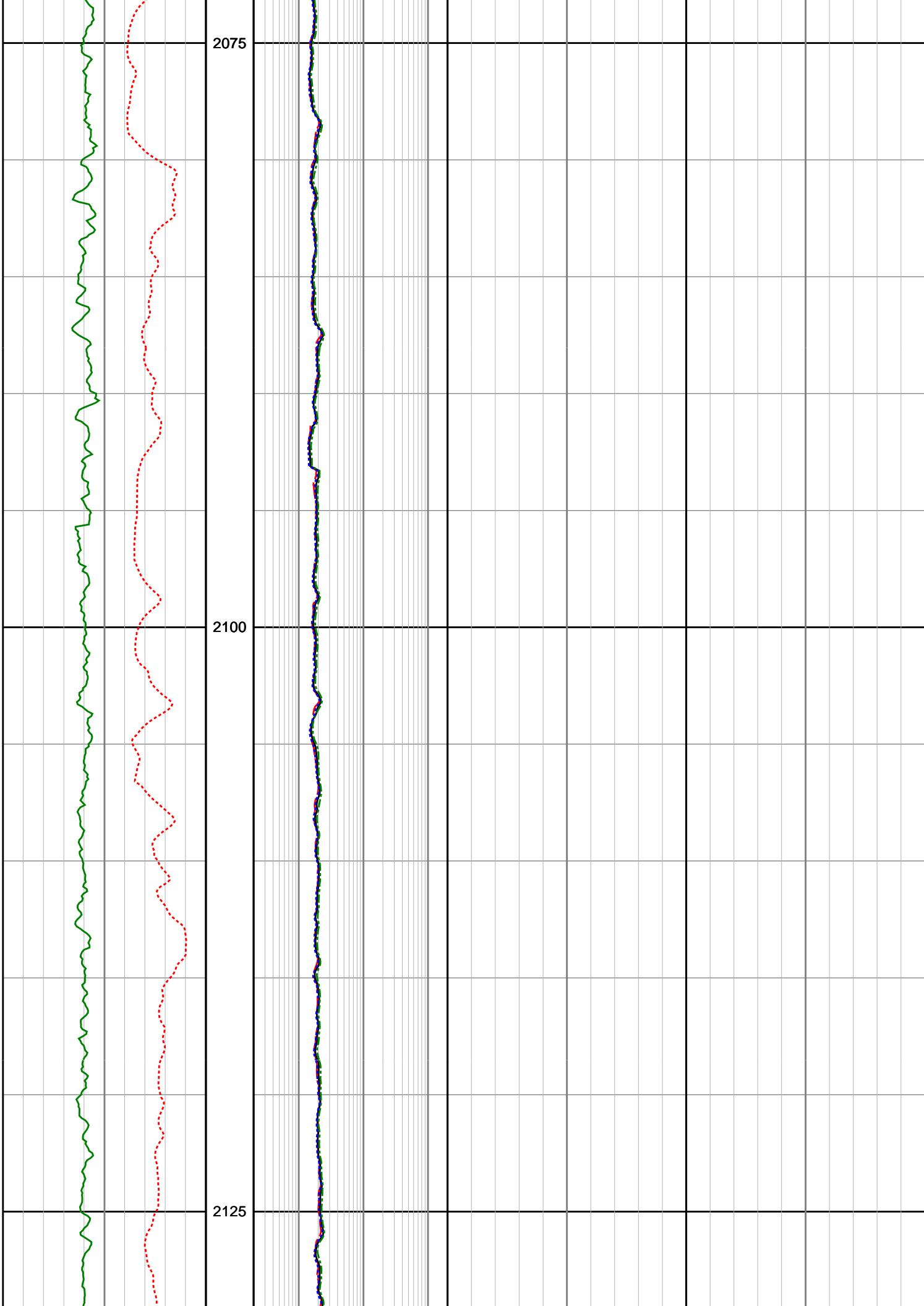


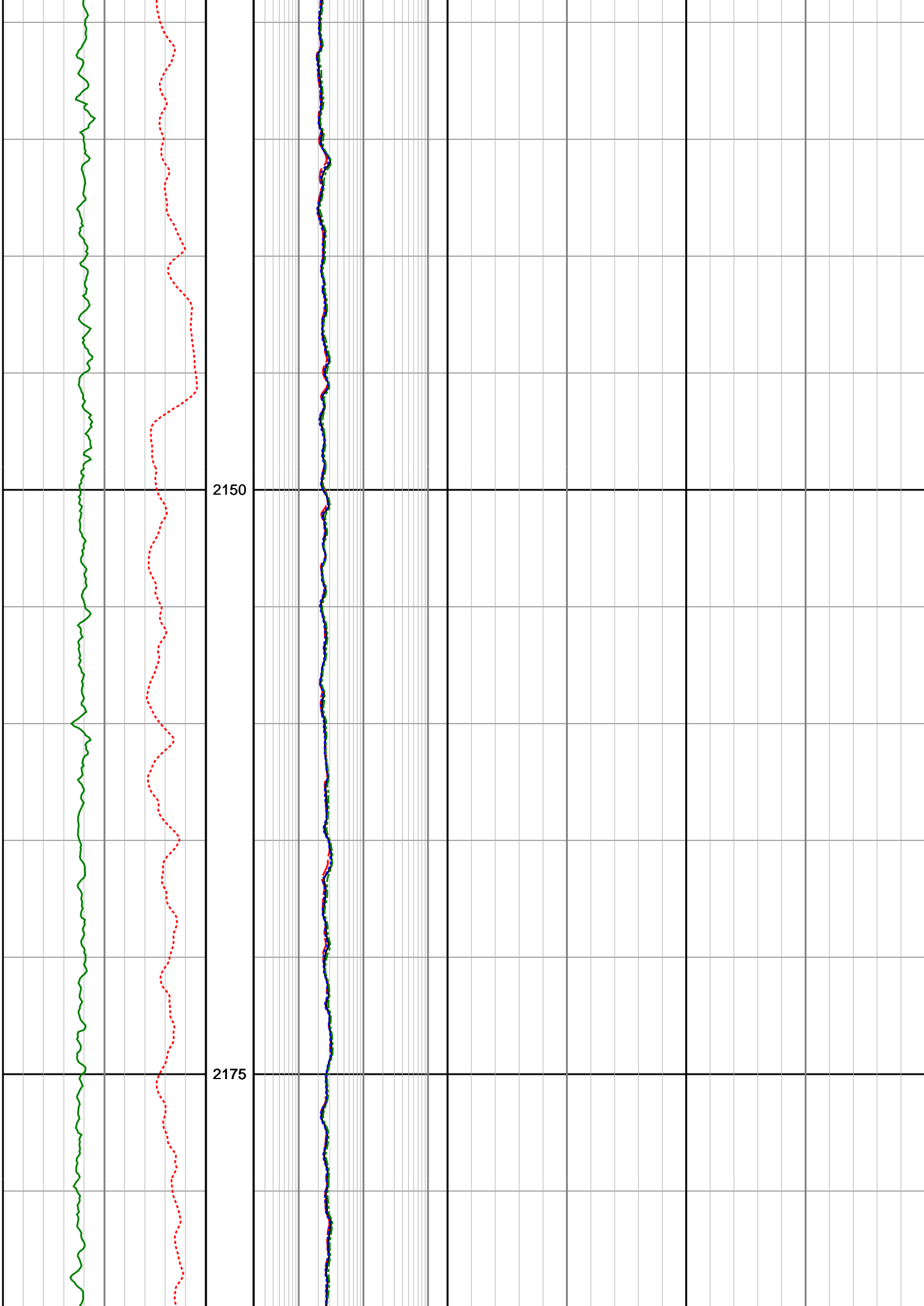


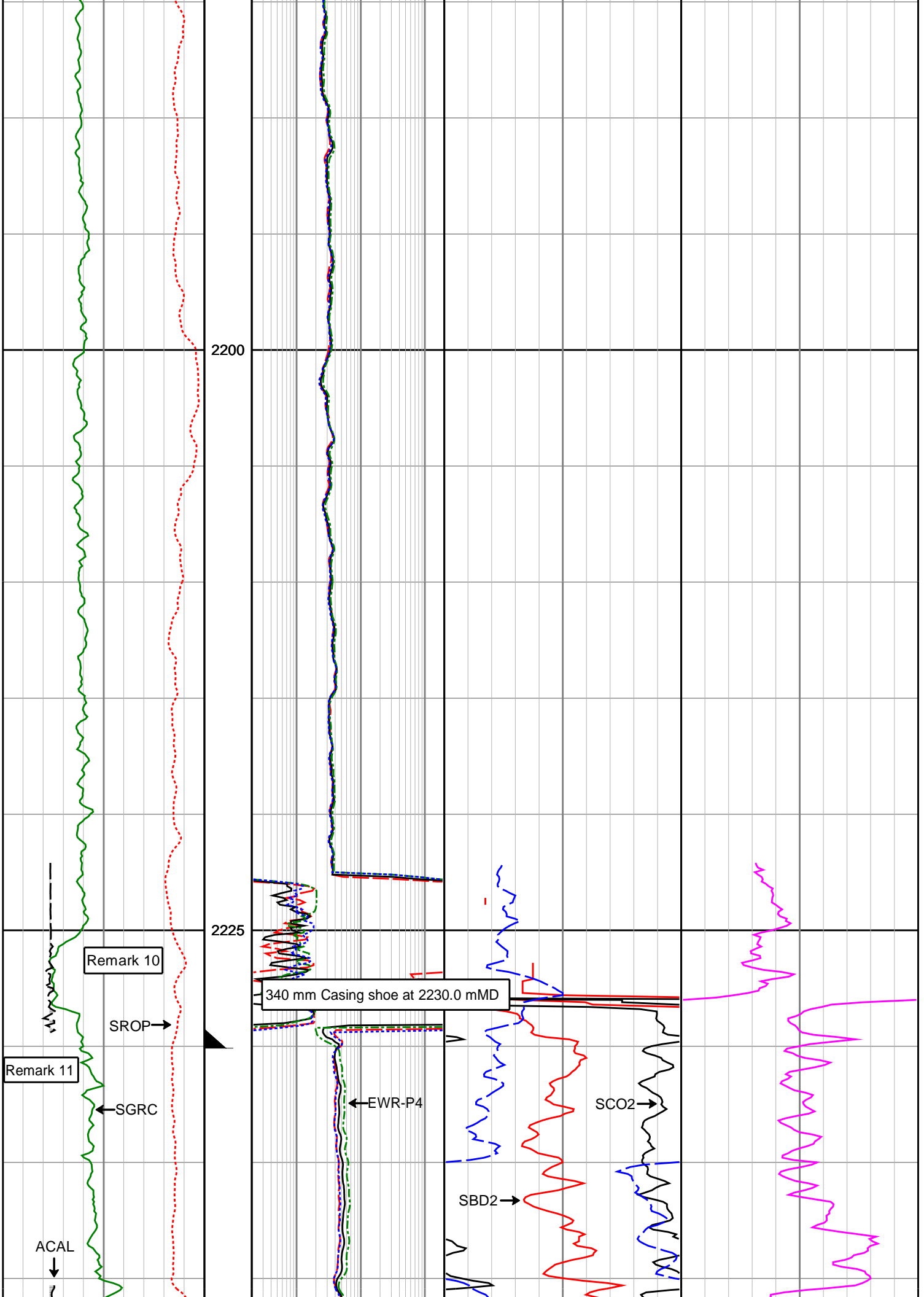


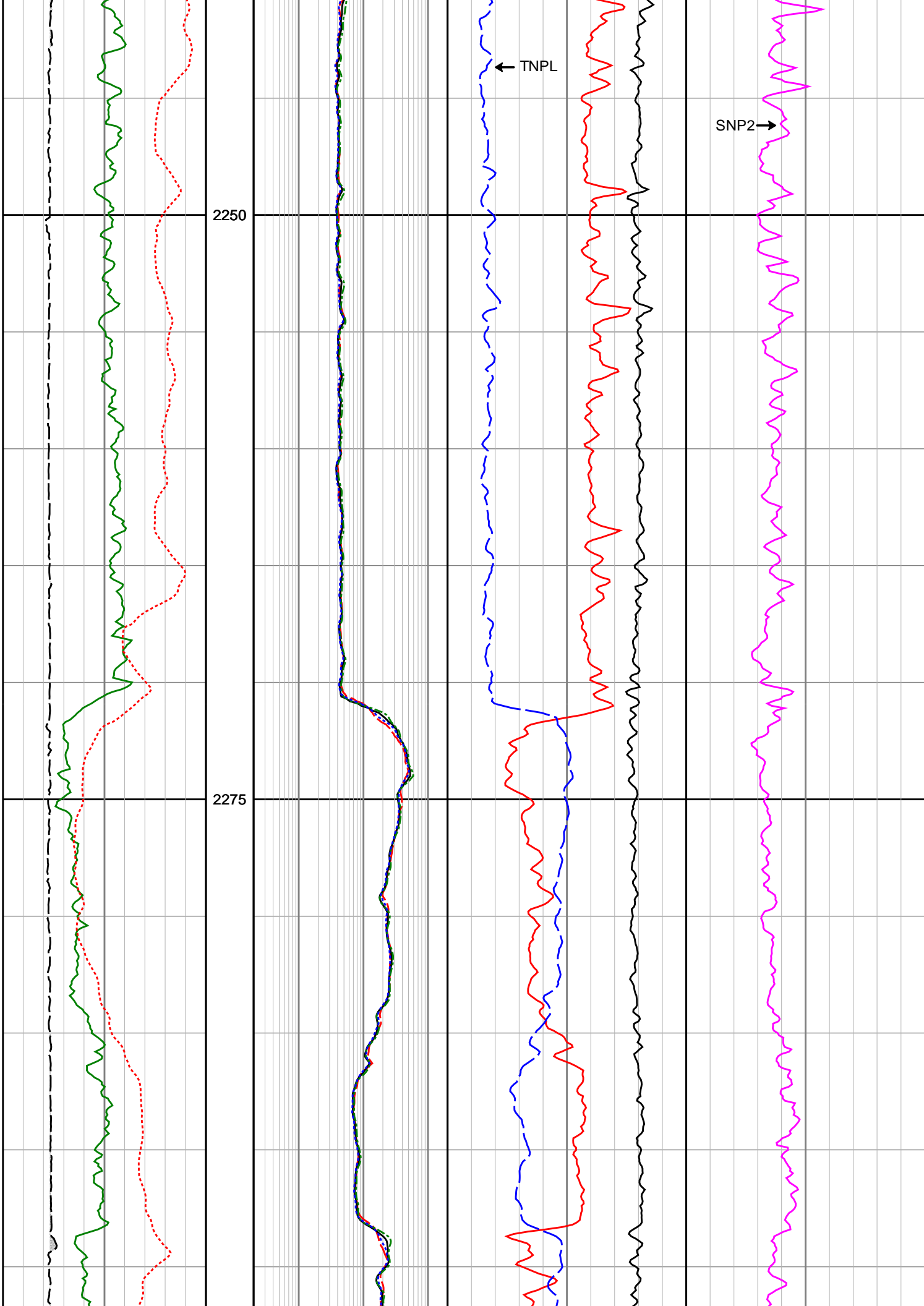


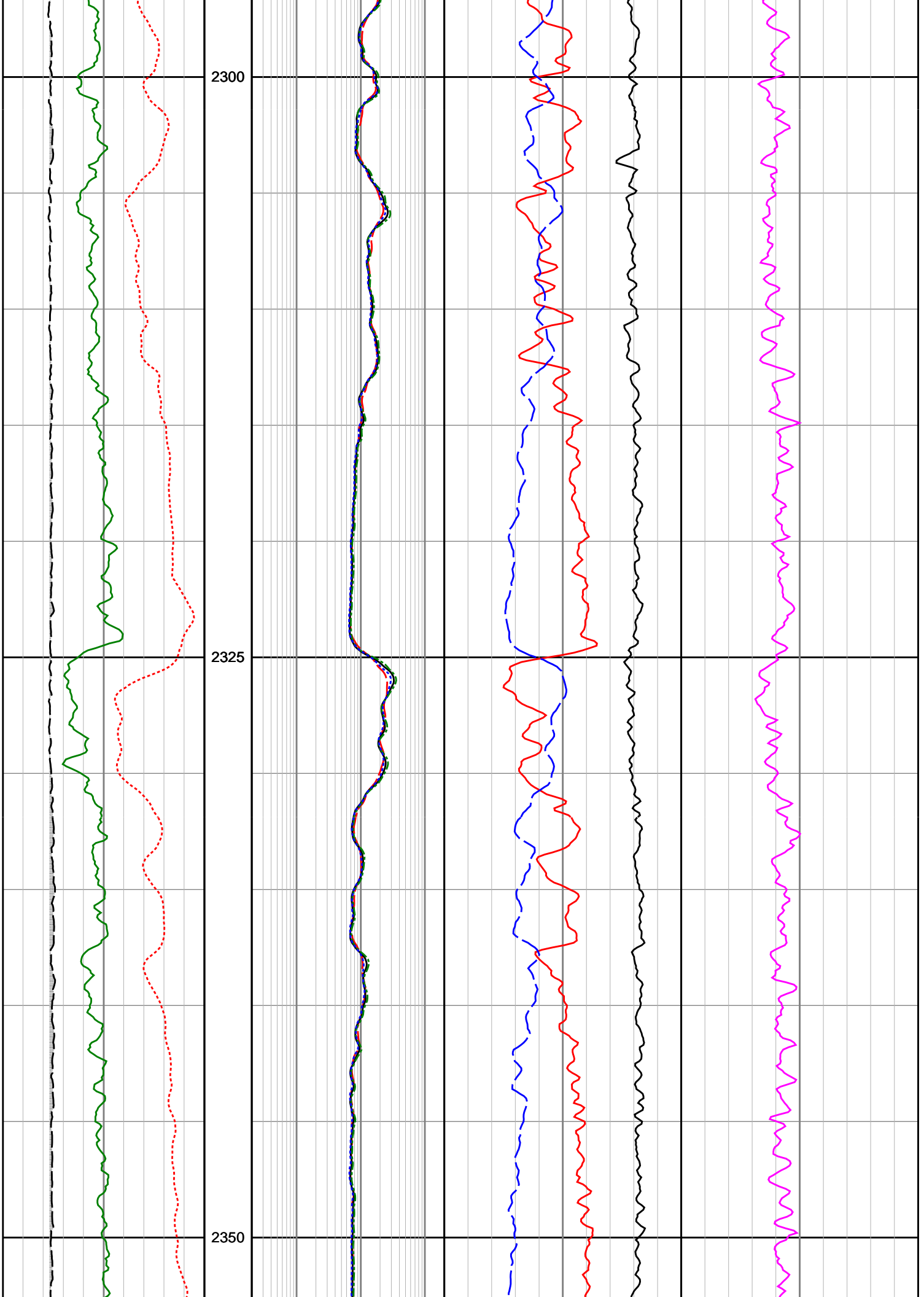


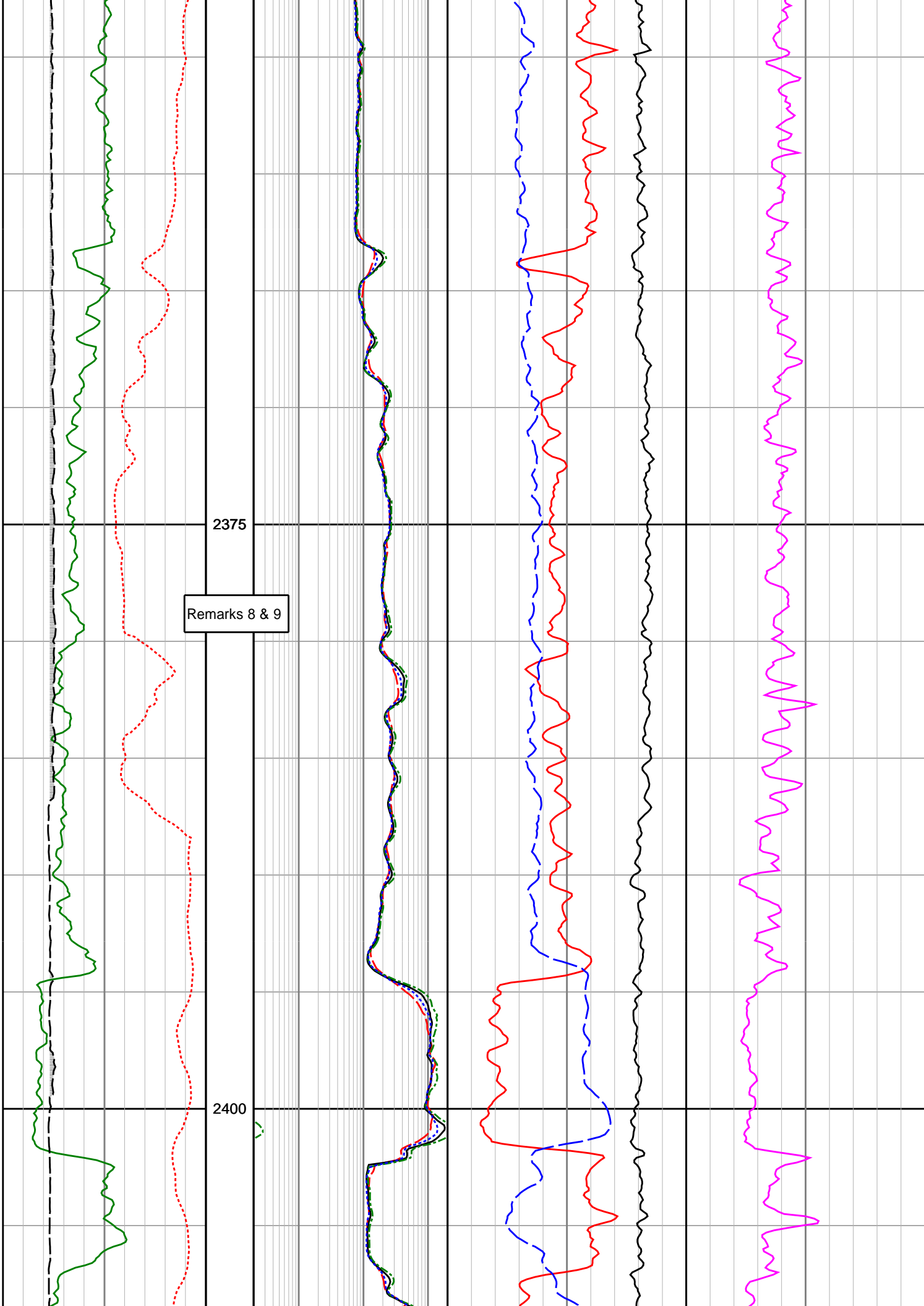


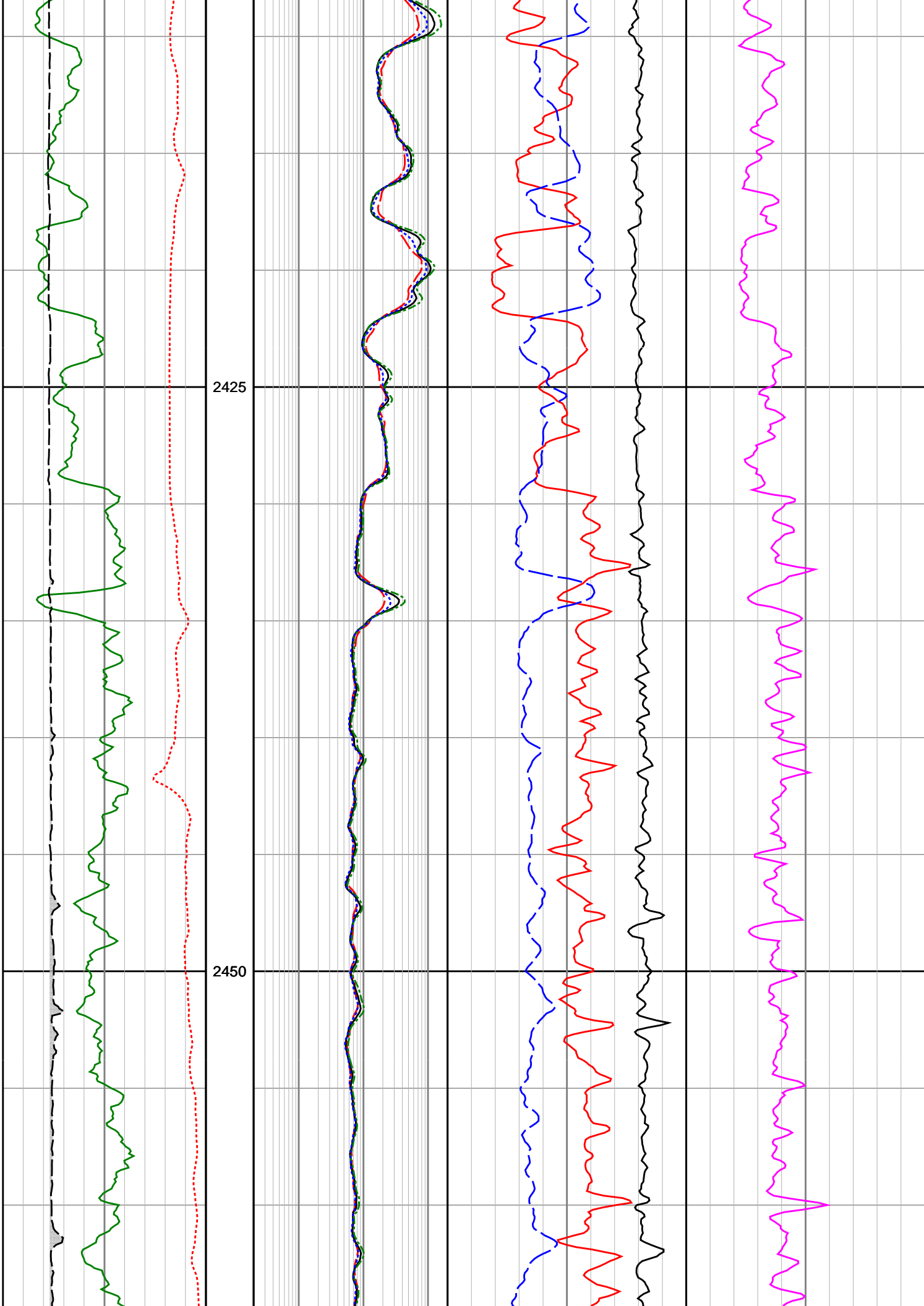


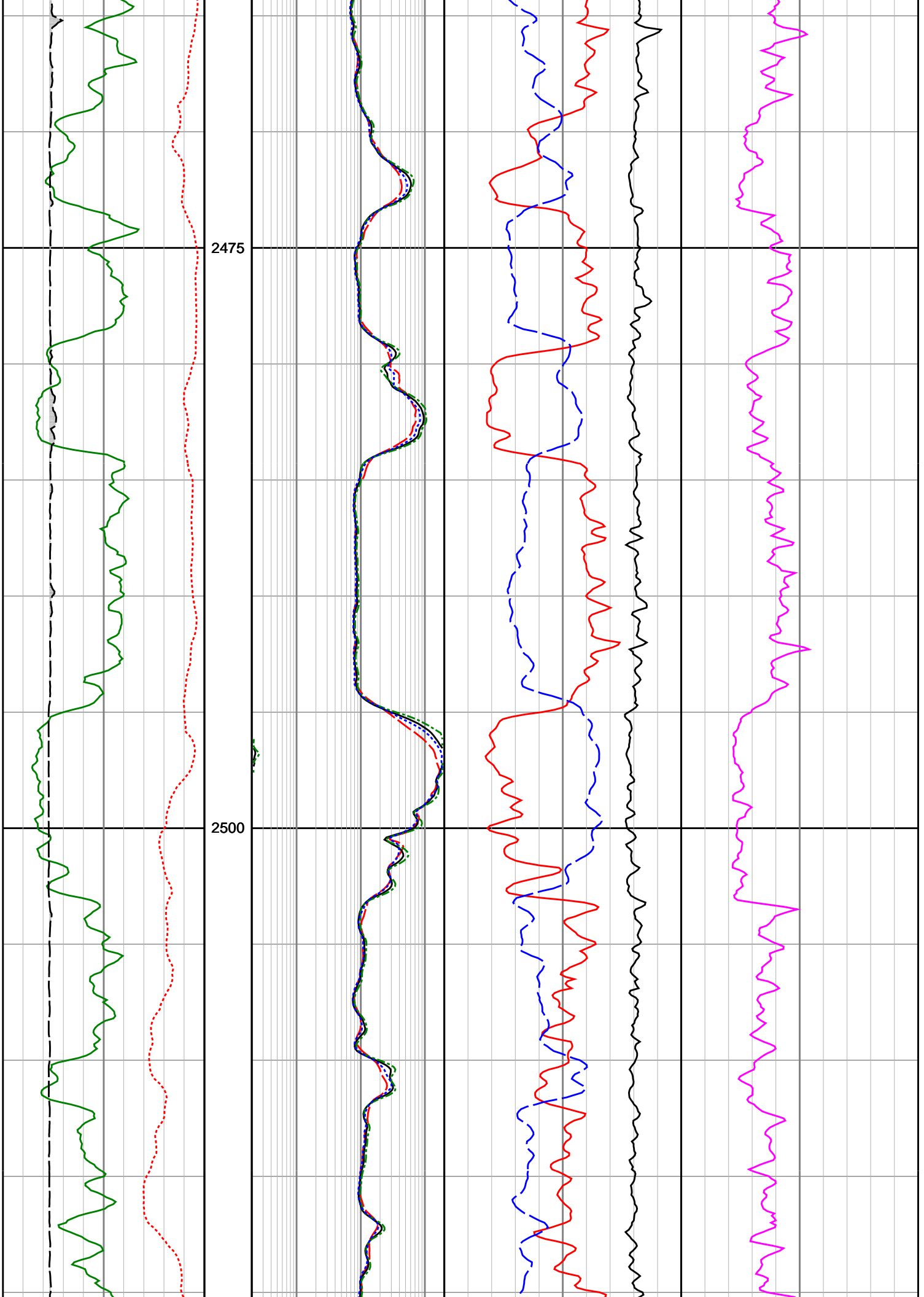


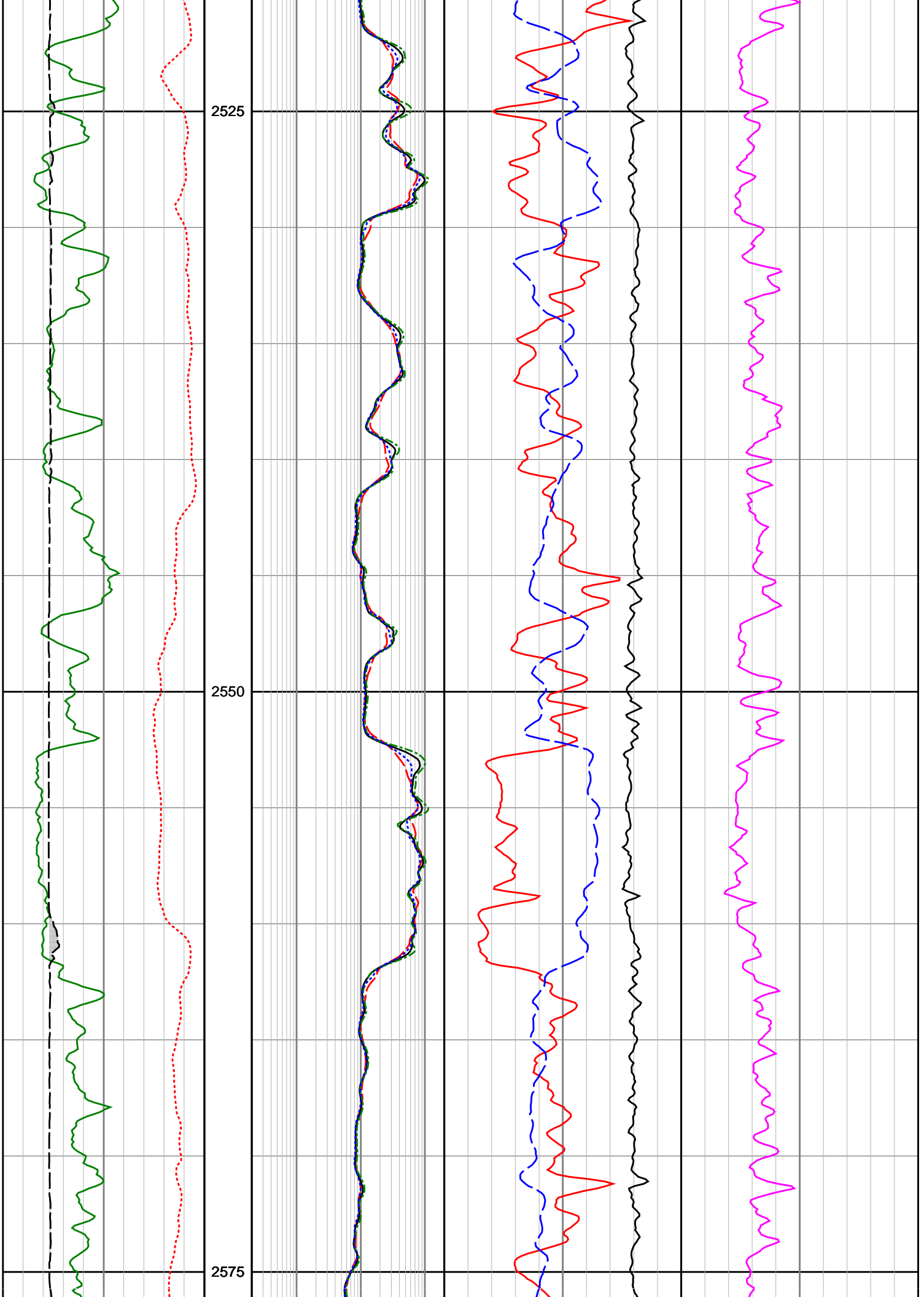


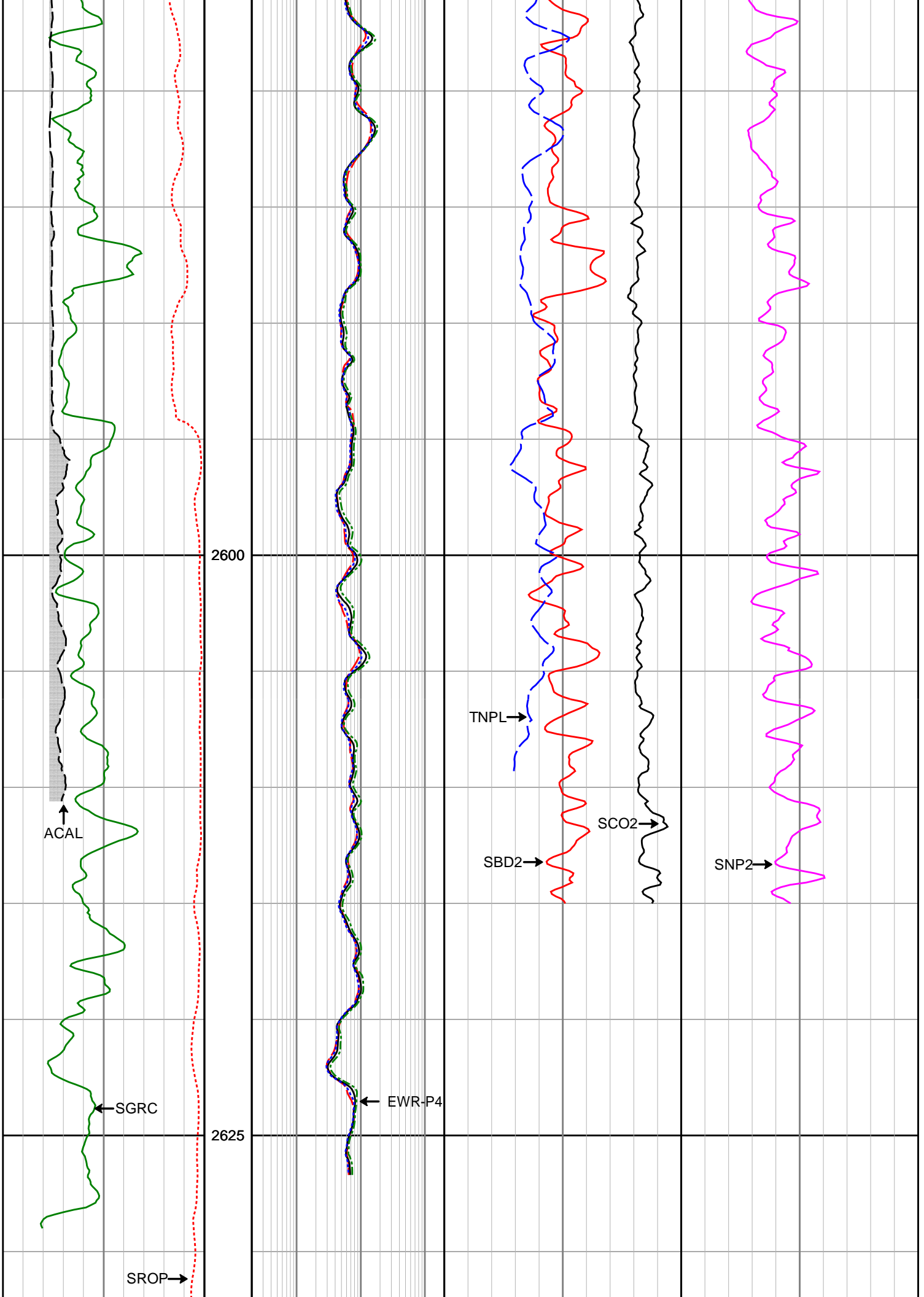












TD THA01 at 2634.15 mMDRT

| | | | | |
|---|--------------|---|---|--|
| Gamma Ray (SGRC) | Depth | X-Shallow Phase Res (SEXP) | Neutron Porosity (TNPL) | Photoelectric Effect (SNP2) |
| 0 200 | MD | 0.2 200 | 0.45 -0.15 | 0 10 |
| api | 1:200 | ohmm | v/v | b/e |
| Rate of Penetration (SROP) | | Shallow Phase Res (SESP) | Bulk Density (SBD2) | |
| 100 0 | | 0.2 200 | 1.95 2.95 | |
| m/hr | | ohmm | g/cc | |
| Acoustic Caliper (ACAL) | | Medium Phase Res (SEMP) | Standoff Correction (SCO2) | |
| 10 20 | | 0.2 200 | -0.75 0.25 | |
| inches | | ohmm | g/cc | |
| | | Deep Phase Res (SEDP) | | |
| | | 0.2 200 | | |
| | | ohmm | | |



HALLIBURTON

DIRECTIONAL SURVEY REPORT

Woodside Energy Ltd

THA01

Thylacine

Tasmania

Australia

AU-FE-0003930657

Final Survey Projected to TD.RT-LAT=50.5m SAG & SUCOP Corrected

| Measured Depth (metres) | Inclination (degrees) | Direction (degrees) | Vertical Depth (metres) | Latitude (metres) | Departure (metres) | Vertical Section (metres) | Dogleg (deg/30m) |
|----------------------------|--------------------------|------------------------|----------------------------|----------------------|-----------------------|------------------------------|---------------------|
| 0.000 | 0.00 | 0.00 | 0.000 | 0.000 N | 0.000 E | 0.000 | TIE-IN |
| 163.140 | 0.28 | 330.50 | 163.139 | 0.347 N | 0.196 W | -0.304 | 0.05 |
| 203.270 | 0.35 | 355.01 | 203.269 | 0.554 N | 0.255 W | -0.431 | 0.11 |
| 254.440 | 0.97 | 77.94 | 254.436 | 0.801 N | 0.155 E | -0.132 | 0.58 |
| 283.460 | 2.33 | 80.80 | 283.443 | 0.946 N | 0.977 E | 0.590 | 1.41 |
| 312.360 | 2.85 | 90.00 | 312.314 | 1.040 N | 2.276 E | 1.776 | 0.69 |
| 341.240 | 2.50 | 93.77 | 341.162 | 0.999 N | 3.622 E | 3.053 | 0.41 |
| 399.180 | 2.95 | 84.56 | 399.037 | 1.057 N | 6.367 E | 5.609 | 0.32 |
| 428.140 | 3.24 | 89.90 | 427.955 | 1.129 N | 7.928 E | 7.048 | 0.42 |
| 457.080 | 5.47 | 114.63 | 456.812 | 0.556 N | 10.000 E | 9.191 | 2.97 |
| 485.098 | 5.50 | 127.25 | 484.702 | 0.814 S | 12.282 E | 11.806 | 1.29 |
| 514.930 | 5.48 | 119.95 | 514.398 | 2.390 S | 14.655 E | 14.577 | 0.70 |
| 543.880 | 4.83 | 118.81 | 543.231 | 3.668 S | 16.920 E | 17.145 | 0.68 |
| 576.140 | 4.59 | 112.73 | 575.382 | 4.821 S | 19.301 E | 19.777 | 0.51 |
| 601.810 | 5.28 | 114.52 | 600.957 | 5.708 S | 21.323 E | 21.981 | 0.83 |
| 620.180 | 5.93 | 112.34 | 619.239 | 6.420 S | 22.970 E | 23.773 | 1.12 |
| 640.850 | 6.53 | 117.05 | 639.787 | 7.360 S | 25.004 E | 26.007 | 1.14 |
| 669.800 | 8.25 | 114.52 | 668.495 | 8.971 S | 28.360 E | 29.713 | 1.81 |
| 698.750 | 9.30 | 115.20 | 697.106 | 10.829 S | 32.367 E | 34.114 | 1.09 |
| 727.730 | 11.92 | 116.21 | 725.588 | 13.148 S | 37.171 E | 39.425 | 2.72 |
| 756.700 | 14.85 | 114.68 | 753.768 | 16.020 S | 43.230 E | 46.103 | 3.06 |
| 785.620 | 17.45 | 112.60 | 781.576 | 18.282 S | 50.508 E | 54.058 | 3.40 |

| | | | | | | | |
|----------|-------|--------|----------|-----------|-----------|---------|------|
| 785.630 | 17.15 | 113.69 | 781.576 | 19.282 S | 50.506 E | 54.058 | 2.40 |
| 814.550 | 19.89 | 114.23 | 808.995 | 23.015 S | 58.898 E | 63.223 | 2.85 |
| 843.510 | 22.77 | 113.13 | 835.969 | 27.239 S | 68.546 E | 73.737 | 3.01 |
| 872.470 | 26.16 | 112.14 | 862.325 | 31.848 S | 79.616 E | 85.718 | 3.54 |
| 901.410 | 29.68 | 110.55 | 887.893 | 36.769 S | 92.239 E | 99.263 | 3.73 |
| 930.340 | 30.11 | 110.28 | 912.973 | 41.798 S | 105.752 E | 113.682 | 0.47 |
| 958.830 | 29.97 | 110.16 | 937.636 | 46.728 S | 119.135 E | 127.944 | 0.16 |
| 988.030 | 30.18 | 110.96 | 962.905 | 51.867 S | 132.836 E | 142.577 | 0.46 |
| 1016.930 | 30.57 | 112.09 | 987.838 | 57.229 S | 146.429 E | 157.186 | 0.72 |
| 1045.850 | 30.84 | 111.75 | 1012.704 | 62.742 S | 160.129 E | 171.946 | 0.33 |
| 1074.810 | 31.04 | 111.85 | 1037.543 | 68.271 S | 173.954 E | 186.830 | 0.21 |
| 1103.730 | 30.29 | 111.03 | 1062.419 | 73.664 S | 187.682 E | 201.576 | 0.89 |
| 1132.680 | 29.94 | 110.39 | 1087.461 | 78.801 S | 201.268 E | 216.101 | 0.49 |
| 1161.870 | 29.62 | 110.09 | 1112.797 | 83.817 S | 214.871 E | 230.599 | 0.36 |
| 1190.880 | 29.73 | 109.69 | 1138.002 | 88.703 S | 228.376 E | 244.961 | 0.23 |
| 1219.830 | 30.03 | 108.77 | 1163.104 | 93.452 S | 241.994 E | 259.380 | 0.57 |
| 1248.800 | 30.09 | 108.92 | 1188.177 | 98.140 S | 255.727 E | 273.887 | 0.10 |
| 1278.620 | 29.97 | 108.50 | 1213.994 | 102.927 S | 269.862 E | 288.806 | 0.24 |
| 1307.580 | 29.37 | 108.59 | 1239.157 | 107.486 S | 283.453 E | 303.135 | 0.62 |
| 1336.500 | 29.18 | 108.40 | 1264.384 | 111.972 S | 296.864 E | 317.270 | 0.22 |
| 1364.980 | 29.18 | 108.33 | 1289.249 | 116.347 S | 310.043 E | 331.148 | 0.04 |
| 1393.920 | 29.27 | 108.34 | 1314.506 | 120.792 S | 323.455 E | 345.270 | 0.09 |
| 1423.280 | 29.41 | 108.65 | 1340.099 | 125.356 S | 337.098 E | 359.650 | 0.21 |
| 1452.190 | 29.98 | 108.87 | 1365.213 | 129.962 S | 350.658 E | 373.967 | 0.60 |
| 1481.130 | 30.17 | 109.42 | 1390.256 | 134.718 S | 364.359 E | 388.467 | 0.35 |
| 1510.100 | 30.44 | 109.59 | 1415.268 | 139.599 S | 378.138 E | 403.084 | 0.29 |
| 1539.010 | 30.67 | 109.39 | 1440.163 | 144.503 S | 391.993 E | 417.779 | 0.26 |
| 1566.710 | 30.92 | 108.40 | 1463.958 | 149.095 S | 405.410 E | 431.957 | 0.61 |
| 1595.260 | 30.84 | 110.12 | 1488.461 | 153.927 S | 419.242 E | 446.606 | 0.93 |
| 1624.090 | 31.10 | 110.73 | 1513.181 | 159.105 S | 433.144 E | 461.441 | 0.42 |
| 1653.400 | 31.30 | 110.75 | 1538.252 | 164.482 S | 447.344 E | 476.624 | 0.20 |
| 1682.730 | 31.12 | 110.78 | 1563.337 | 169.870 S | 461.555 E | 491.822 | 0.18 |
| 1711.880 | 30.99 | 110.81 | 1588.309 | 175.209 S | 475.612 E | 506.858 | 0.13 |
| 1740.740 | 30.96 | 110.74 | 1613.053 | 180.477 S | 489.500 E | 521.711 | 0.05 |
| 1769.690 | 30.86 | 110.56 | 1637.892 | 185.722 S | 503.416 E | 536.582 | 0.14 |
| 1797.900 | 30.74 | 110.75 | 1662.123 | 190.817 S | 516.932 E | 551.026 | 0.16 |
| 1826.420 | 31.05 | 110.35 | 1686.596 | 195.957 S | 530.644 E | 565.670 | 0.39 |
| 1855.220 | 31.23 | 110.09 | 1711.246 | 201.104 S | 544.620 E | 580.563 | 0.23 |
| 1884.140 | 31.44 | 110.25 | 1735.948 | 206.290 S | 558.737 E | 595.603 | 0.23 |
| 1913.010 | 31.37 | 110.49 | 1760.589 | 211.527 S | 572.840 E | 610.646 | 0.15 |
| 1942.300 | 31.06 | 110.63 | 1785.639 | 216.857 S | 587.053 E | 625.826 | 0.33 |
| 1971.500 | 30.95 | 110.31 | 1810.666 | 222.118 S | 601.144 E | 640.867 | 0.20 |
| 2000.790 | 30.65 | 110.04 | 1835.825 | 227.290 S | 615.222 E | 655.864 | 0.34 |
| 2030.040 | 30.44 | 109.78 | 1861.016 | 232.353 S | 629.198 E | 670.730 | 0.25 |
| 2058.970 | 30.44 | 109.72 | 1885.959 | 237.306 S | 642.993 E | 685.386 | 0.03 |
| 2087.930 | 30.35 | 109.35 | 1910.938 | 242.205 S | 656.802 E | 700.037 | 0.22 |
| 2116.860 | 30.29 | 108.46 | 1935.911 | 246.937 S | 670.619 E | 714.638 | 0.47 |
| 2145.830 | 30.30 | 108.31 | 1960.925 | 251.546 S | 684.487 E | 729.244 | 0.08 |
| 2174.750 | 30.08 | 107.65 | 1985.923 | 256.036 S | 698.319 E | 743.776 | 0.41 |
| 2203.640 | 29.85 | 107.35 | 2010.951 | 260.375 S | 712.081 E | 758.189 | 0.29 |
| 2215.280 | 29.68 | 108.09 | 2021.055 | 262.134 S | 717.585 E | 763.962 | 1.04 |
| 2250.800 | 29.28 | 106.47 | 2051.977 | 267.327 S | 734.275 E | 781.418 | 0.75 |
| 2279.770 | 28.73 | 104.23 | 2077.314 | 271.047 S | 747.818 E | 795.412 | 1.26 |
| 2308.690 | 28.80 | 105.02 | 2102.665 | 274.561 S | 761.283 E | 809.262 | 0.40 |
| 2337.660 | 28.83 | 105.23 | 2128.048 | 278.205 S | 774.763 E | 823.169 | 0.11 |
| 2366.610 | 28.69 | 105.53 | 2153.427 | 281.899 S | 788.193 E | 837.049 | 0.21 |
| 2424.460 | 28.63 | 105.55 | 2204.189 | 289.332 S | 814.924 E | 864.701 | 0.03 |
| 2453.360 | 28.37 | 105.46 | 2229.587 | 293.018 S | 828.212 E | 878.444 | 0.27 |
| 2482.040 | 28.21 | 105.80 | 2254.842 | 296.680 S | 841.302 E | 891.993 | 0.24 |
| 2511.000 | 27.83 | 105.50 | 2280.407 | 300.351 S | 854.402 E | 905.554 | 0.42 |
| 2539.990 | 27.63 | 105.58 | 2306.068 | 303.965 S | 867.398 E | 918.998 | 0.21 |
| 2568.880 | 27.38 | 105.20 | 2331.692 | 307.506 S | 880.262 E | 932.293 | 0.32 |
| 2597.760 | 27.04 | 106.24 | 2357.376 | 311.083 S | 892.973 E | 945.457 | 0.61 |
| 2615.500 | 26.55 | 106.25 | 2373.211 | 313.320 S | 900.651 E | 953.434 | 0.83 |
| 2634.150 | 26.22 | 106.67 | 2389.919 | 315.668 S | 908.599 E | 961.705 | 0.61 |

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

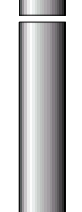



VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 110.23 DEGREES (GRID)
A TOTAL CORRECTION OF 12.31 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 2634.150 METRES
IS 961.873 METRES ALONG 109.16 DEGREES (GRID)





































MWD RUN 200 - BHA

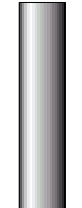


MWD RUN 200 - MWD

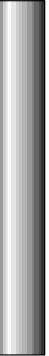
| | | Component Length (m) | Cumulative Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|--|----------------------|-----------------------|-----------------|--|--|
| | | | 156.30 | | | |
| HWDP | | 58.140 | | | | |
| | | | | | | |
| Sub | | 1.380 | 98.16 | | | |
| | | | 96.78 | | | |
| Drill Collar | | 18.220 | | Positive Pulser | | |
| | | | 78.56 | | | |
| Jar | | 9.680 | | | | |
| | | | 68.88 | | | |
| Drill Collar | | 26.830 | | | | |
| | | | 42.05 | | | |
| Sub | | 1.360 | 40.69 | TM | | |
| | | | | | | |
| Drill Collar | | 9.530 | | | | |
| | | | 31.16 | | | |
| Stabilizer | | 2.870 | 28.29 | | | |
| | | | | | | |
| Drill Collar | | 8.920 | | | | |
| | | | 19.37 | | | |
| MWD | | 9.540 | | | | |
| | | | | | | |
| Sub | | .750 | 9.83 | DM | | 15.860 |

| | | | | |
|-------|---|-------|------|---|
| Motor |  | 8.540 | 9.08 |  |
| Bit |  | .540 | 0.54 |  |

| | |
|-------------------|-------------------|
| MWD RUN 300 - BHA | MWD RUN 300 - MWD |
|-------------------|-------------------|


















| | | Component Length (m) | Cumulative Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------------|-----------------|---|--|
| |  | | 258.94 | |  | |
| HWDP |  | 145.070 | | Positive Pulser |  | |
| |  | | | |  | |
| Sub |  | 1.380 | 113.87 | |  | |
| |  | | 112.49 | |  | |
| Drill Collar |  | 18.660 | | |  | |
| |  | | 93.83 | TM |  | |
| Jar |  | 9.680 | | |  | |
| |  | | | |  | |
| Drill Collar |  | 53.570 | 84.15 | DM |  | 21.550 |
| |  | | | |  | |
| Sub |  | 1.360 | 30.58 | |  | |
| |  | | 29.22 | |  | |
| Drill Collar |  | 4.260 | | HCIM |  | |
| |  | | 24.96 | |  | |
| MWD |  | 12.140 | | |  | |
| |  | .840 | 12.82 | EWR-P4D |  | 16.440 |
| Stabilizer |  | 2.470 | 11.98 | |  | |

























| | | |
|-------|---|------|
| Motor |  | 9.51 |
| | 8.550 | |
| Sub |  | 0.96 |
| Bit |  | 0.55 |




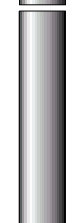


| | | |
|-----|--|--------|
| DGR |  | 13.980 |
|-----|--|--------|

MWD RUN 400 - BHA

MWD RUN 400 - MWD






















| | | Component Length (m) | Cumulative Length (m) |
|--------------|---|----------------------|-----------------------|
| HWDP |  | | 258.67 |
| |  | 145.350 | |
| |  | | |
| Sub |  | 1.380 | 113.32 |
| Drill Collar |  | | 111.94 |
| |  | 18.660 | |
| |  | | |
| Jar |  | 9.680 | 93.28 |
| Drill Collar |  | | 83.60 |
| |  | 53.570 | |
| |  | | |
| Sub |  | 1.360 | 30.03 |
| Drill Collar |  | | 28.67 |
| |  | 4.260 | |
| |  | | |
| MWD |  | 12.140 | 24.41 |
| |  | | 42.67 |









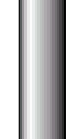
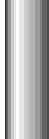


| | | Sensor Measure Point Distance To Bit (m) |
|-----------------|---|--|
| Positive Pulser |  | |
| |  | |
| |  | |
| TM |  | |
| |  | |
| |  | |
| DM |  | |
| |  | |
| |  | |
| HCIM |  | |
| |  | |
| |  | |
| EWR-P4D |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |
| |  | |

| | | | | | | |
|------------|---|-------|-------|-----|---|--------|
| Sub |  | .840 | 12.27 | |  | |
| Stabilizer |  | 2.470 | 11.43 | | | |
| |  | | 8.96 | | | |
| Motor | | 8.540 | | DGR | | 13.430 |
| Bit |  | .420 | 0.42 | |  | |

MWD RUN 500 - BHA































MWD RUN 500 - MWD

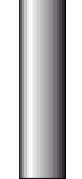
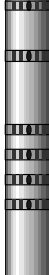



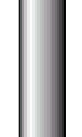
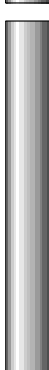

| | | Component Length (m) | Cumulative Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------------|-----------------|---|--|
| |  | | 258.67 | |  | |
| HWDP |  | 145.350 | | Positive Pulser | | |
| |  | | 113.32 | |  | |
| Sub |  | 1.380 | | | | |
| |  | | 111.94 | |  | |
| Drill Collar | | 18.660 | | TM | | |
| |  | | 93.28 | |  | |
| Jar |  | 9.680 | | |  | |
| |  | | 83.60 | DM | | 21.000 |
| Drill Collar | | 53.570 | | |  | |
| |  | | 30.03 | |  | |
| Sub |  | 1.360 | | HCIM | | |
| |  | | 28.67 | |  | |
| Drill Collar | | 4.260 | | | | |
| |  | | 24.41 | |  | |
| MWD | | 12.140 | | EWR-P4D | | |

| | | | | | | |
|------------|---|-------|-------|-----|---|--------|
| |  | | | |  | 15.890 |
| Sub |  | .840 | 12.27 | |  | |
| Stabilizer |  | 2.470 | 11.43 | |  | |
| |  | | 8.96 | |  | |
| Motor |  | 8.540 | | DGR |  | 13.430 |
| Bit |  | .420 | 0.42 | |  | |



















MWD RUN 600 - BHA












MWD RUN 600 - MWD

| | | Component Length (m) | Cumulative Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------------|-----------------|---|--|
| |  | | 259.67 | |  | |
| HWDP |  | 145.070 | | Positive Pulser |  | |
| |  | | 114.60 | |  | |
| Sub |  | 1.380 | | |  | |
| |  | | 113.22 | |  | |
| Drill Collar |  | 18.660 | | TM |  | |
| |  | | 94.56 | |  | |
| Jar |  | 9.680 | | |  | |
| |  | | 84.88 | DM |  | 22.230 |
| Drill Collar |  | 53.570 | | |  | |
| |  | | 31.31 | |  | |
| Sub |  | 1.360 | | HCIM |  | |
| |  | | 29.95 | |  | |
| Drill Collar |  | 4.260 | | |  | |
| |  | | 25.69 | |  | |

| | | | | | | |
|------------|---|--------|-------|---------|---|--------|
| MWD |  | 12.140 | | EWR-P4D |  | 17.170 |
| Sub |  | .840 | 13.55 | | | |
| Stabilizer |  | 2.470 | 12.71 | | | |
| |  | | 10.24 | | | |
| Motor |  | 9.690 | | DGR |  | 14.710 |
| Bit |  | .550 | 0.55 | | | |













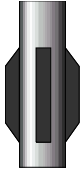

| | |
|-------------------|-------------------|
| MWD RUN 700 - BHA | MWD RUN 700 - MWD |
|-------------------|-------------------|

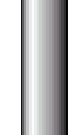







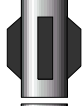
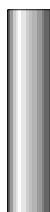



| | | Component Length (m) | Cumulative Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------------|-----------------|---|--|
| |  | | 269.89 | | | |
| HWDP |  | 145.350 | | Positive Pulser |  | |
| |  | | 124.54 | | | |
| Sub |  | 1.380 | | TM |  | |
| |  | | 123.16 | | | |
| Drill Collar |  | 18.660 | | CTN |  | 25.130 |
| |  | | 104.50 | | | |
| Jar |  | 9.630 | | ACAL |  | 23.890 |
| |  | | 94.87 | | | |
| Drill Collar |  | 53.570 | | ASLD |  | |
| |  | | 41.30 | | | |
| Drill Collar | | 8.580 | | PM |  | |
| | | | | HCIM |  | |

| | | | | | | |
|------------|---|--------|-------|--------|---|--------|
| Stabilizer |  | 2.500 | 32.72 | |  | |
| | | | 30.22 | PWD | | 10.280 |
| MWD |  | 25.900 | | |  | |
| Sub |  | 1.220 | 4.32 | EWR-P4 |  | 7.780 |
| Stabilizer |  | 1.880 | 3.10 | |  | |
| Sub |  | .880 | 1.22 | DGR |  | 5.420 |
| Bit |  | .340 | 0.34 | | | |

MWD RUN 800 - BHA

MWD RUN 800 - MWD

| | | Component Length (m) | Cumulative Length (m) | | | Sensor Measure Point Distance To Bit (m) |
|--------------|---|----------------------|-----------------------|-----------------|---|--|
| |  | | 269.88 | |  | |
| HWDP |  | 145.350 | | Positive Pulser |  | |
| |  | | 124.53 | |  | |
| Sub |  | 1.380 | | TM | | |
| |  | | 123.15 | |  | |
| Drill Collar | | 18.660 | | CTN | | 25.120 |
| |  | | 104.49 | |  | |
| Jar | | 9.630 | | ACAL | | 23.880 |
| |  | | 94.86 | |  | |
| Drill Collar | | 53.570 | | ASLD | | |
| |  | | 41.29 | PM | | |
| Drill Collar | | | | | | |

| | | | | | | |
|--------------|---|--------|-------|--------|---|--------|
| Drill Collar |  | 8.580 | | |  | |
| | | | | HCIM | | |
| Stabilizer |  | 2.500 | 32.71 | |  | |
| | | | 30.21 | PWD | | 10.270 |
| MWD |  | 25.900 | | |  | |
| | | | | | | |
| Sub |  | 1.220 | 4.31 | EWR-P4 |  | 7.770 |
| | | | | | | |
| Stabilizer |  | 1.880 | 3.09 | |  | |
| | | | | | | |
| Sub |  | .880 | 1.21 | DGR |  | 5.410 |
| | | | | | | |
| Bit |  | .330 | 0.33 | | | |