

VISION Service

1:200 Measured Depth

Recorded Mode Log

Company: Beach Petroleum Ltd

Well: Spikey Beach-1

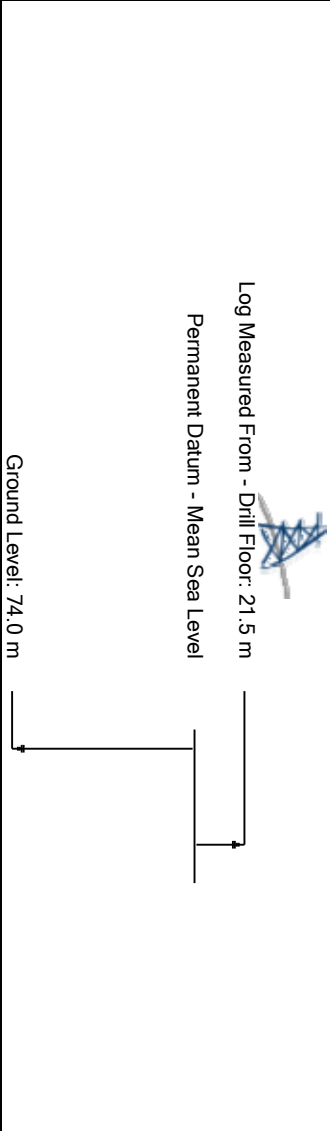
Field: Exploration

County: n/a

State: Tasmania

Country: Australia

| | |
|-----------|----------------------------|
| Section: | Custom: |
| Township: | Rig Name: Ocean Patriot |
| Range: | Rig Type: Semi Submersible |
| FL: | Exploration |
| FL1: | |
| FL2: | |



| | | |
|--------------------|-----------------------|---------------------|
| Acquisition Dates: | | Other Services: |
| Print Interval: | 803.0(m) to 2100.2(m) | Directional Surveys |
| Index Types: | Measured Depth | |
| Index Scales: | 1:200 | |
| Depth Source: | Driller's Depth | |
| Depth Sensor: | DES | |
| Conveyance: | Drill Pipe | |
| Print Type: | Final | |
| Spud Date: | 05-Sep-2009 | |

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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5.1 Software Version

5.2 Composite Summary

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6. Tail

Survey Record

| | | | |
|--------------------|-----------------------------|----------------------------|---------------------------------|
| Survey Calculation | | | |
| Method : | Minimum Radius of Curvature | DLS Method : | Lubinski |
| North Reference : | Grid North | Total Correction Formula : | Magnetic Dec - Grid Convergence |
| Grid Convergence : | 0.73 deg | | |

| | | | |
|--------------|-----------------|-------------|-------------------|
| Rig Location | | | |
| Latitude : | 40° 28' 53.9" S | Longitude : | 145° 52' 24.71" E |

| | | | | | |
|----------------------|--------|---------------------|----------|---------------------------|----------|
| Tie In Point | | | | | |
| Measured Depth: | 0.00 m | Inclination: | 0.00 deg | Azimuth: | 0.00 deg |
| True Vertical Depth: | 0.00 m | North Displacement: | 0.00 m | East Displacement: | 0.00 m |
| N/-S VSec Origin: | 0.00 m | E/-W VSec Origin: | 0.00 m | Vertical Section Azimuth: | 0.00 deg |

| | | | |
|--|--------------------------|-------------------------|--------------------------|
| D&I Inits Computed and Values Used - Run 1 | | | |
| Geomagnetic Model : | BGGM 2009 | Geomagnetic Date : | 07-Sep-2009 |
| Computed Location B : | 61230.34 nT +/- 300.00nT | Used Location B : | 61230.34 nT +/- 300.00nT |
| Computed Location G : | 999.55 mgn +/- 2.50mgn | Used Location G : | 999.55 mgn +/- 2.50mgn |
| Computed Magnetic Dip : | -70.91 deg +/- 0.45deg | Used Magnetic Dip : | -70.91 deg +/- 0.45deg |
| Computed Magnetic Dec : | 12.97 deg | Used Magnetic Dec : | 12.97 deg |
| Computed Total Correction : | 12.24 deg | Used Total Correction : | 12.24 deg |

| | | | |
|--|--------------------------|-------------------------|--------------------------|
| D&I Inits Computed and Values Used - Run 2 | | | |
| Geomagnetic Model : | BGGM 2009 | Geomagnetic Date : | 10-Sep-2009 |
| Computed Location B : | 61230.23 nT +/- 300.00nT | Used Location B : | 61230.23 nT +/- 300.00nT |
| Computed Location G : | 999.55 mgn +/- 2.50mgn | Used Location G : | 999.55 mgn +/- 2.50mgn |
| Computed Magnetic Dip : | -70.91 deg +/- 0.45deg | Used Magnetic Dip : | -70.91 deg +/- 0.45deg |
| Computed Magnetic Dec : | 12.97 deg | Used Magnetic Dec : | 12.97 deg |
| Computed Total Correction : | 12.24 deg | Used Total Correction : | 12.24 deg |

| | | |
|-------------------------------|------------|---------------------|
| Survey Quality Index | | |
| 0 : Long, passed all criteria | 9 : Manual | 10 : DMAG-Corrected |

| | | | | | | | | | | | | | | |
|-------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Survey Correction Index | | | | | | | | | | | | | | |
| 0 : No correction | | | | | | | | | | | | | | |

| Seq | MD (m) | Incl (deg) | Azim (deg) | Course (m) | TVD (m) | V Sec (m) | N/ -S (m) | E/ -W (m) | Closure (m) | at Azi (deg) | DLS deg/30m | Tool Type | QI | CI |
|-----|-----------|---------------|---------------|---------------|------------|--------------|--------------|--------------|----------------|-----------------|----------------|-----------|----|----|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 90.00 | 0.00 | TIP | | |
| 2 | 179.35 | 0.24 | 83.43 | 179.35 | 179.35 | 0.04 | 0.04 | 0.37 | 0.38 | 83.43 | 0.04 | Manual | 10 | |
| 3 | 206.93 | 0.26 | 40.89 | 27.58 | 206.93 | 0.10 | 0.10 | 0.47 | 0.48 | 78.39 | 0.20 | Manual | 10 | |
| 4 | 294.67 | 0.37 | 50.63 | 87.74 | 294.67 | 0.43 | 0.43 | 0.82 | 0.93 | 62.51 | 0.04 | Manual | 10 | |
| 5 | 338.42 | 0.10 | 101.79 | 43.75 | 338.42 | 0.51 | 0.51 | 0.97 | 1.09 | 62.25 | 0.22 | Manual | 10 | |
| 6 | 352.67 | 0.17 | 96.28 | 14.25 | 352.67 | 0.50 | 0.50 | 1.00 | 1.12 | 63.26 | 0.15 | Manual | 10 | |
| 7 | 382.26 | 0.19 | 48.22 | 29.59 | 382.26 | 0.53 | 0.53 | 1.08 | 1.20 | 63.80 | 0.15 | Manual | 10 | |
| 8 | 468.33 | 0.04 | 55.57 | 86.07 | 468.33 | 0.64 | 0.64 | 1.21 | 1.37 | 62.02 | 0.05 | Manual | 10 | |
| 9 | 514.50 | 0.11 | 259.09 | 46.17 | 514.50 | 0.64 | 0.64 | 1.18 | 1.35 | 61.39 | 0.10 | Manual | 10 | |
| 10 | 556.06 | 0.15 | 276.07 | 41.56 | 556.06 | 0.64 | 0.64 | 1.09 | 1.26 | 59.43 | 0.04 | Manual | 10 | |
| 11 | 642.56 | 0.27 | 259.55 | 86.50 | 642.56 | 0.62 | 0.62 | 0.78 | 0.99 | 51.45 | 0.05 | Manual | 10 | |

| | | | | | | | | | | | | | | |
|----|---------|------|--------|--------|---------|------|------|------|-------|-------|------|-----------|----|---|
| 11 | 042.50 | 0.27 | 259.55 | 80.50 | 042.50 | 0.02 | 0.02 | 0.78 | 0.99 | 51.45 | 0.03 | Manual | 10 | |
| 12 | 727.80 | 0.25 | 254.10 | 85.24 | 727.80 | 0.53 | 0.53 | 0.40 | 0.66 | 36.95 | 0.01 | Manual | 10 | |
| 13 | 755.00 | 0.16 | 261.45 | 27.20 | 755.00 | 0.51 | 0.51 | 0.30 | 0.59 | 30.91 | 0.10 | Manual | 10 | |
| 14 | 786.24 | 0.17 | 245.91 | 31.24 | 786.24 | 0.48 | 0.48 | 0.22 | 0.53 | 24.39 | 0.04 | Manual | 10 | |
| 15 | 803.80 | 0.18 | 263.56 | 17.56 | 803.80 | 0.47 | 0.47 | 0.17 | 0.50 | 19.67 | 0.09 | Manual | 10 | |
| 16 | 879.04 | 0.43 | 77.12 | 75.24 | 879.04 | 0.52 | 0.52 | 0.33 | 0.61 | 32.23 | 0.24 | TeleScope | 0 | 0 |
| 17 | 990.83 | 0.34 | 90.11 | 111.78 | 990.82 | 0.61 | 0.61 | 1.08 | 1.24 | 60.31 | 0.03 | TeleScope | 0 | 0 |
| 18 | 1078.27 | 0.31 | 90.35 | 87.44 | 1078.26 | 0.61 | 0.61 | 1.58 | 1.69 | 68.83 | 0.01 | TeleScope | 0 | 0 |
| 19 | 1164.94 | 0.40 | 84.09 | 86.67 | 1164.93 | 0.64 | 0.64 | 2.12 | 2.21 | 73.16 | 0.03 | TeleScope | 0 | 0 |
| 20 | 1221.27 | 0.44 | 97.02 | 56.33 | 1221.26 | 0.63 | 0.63 | 2.53 | 2.61 | 75.91 | 0.06 | TeleScope | 0 | 0 |
| 21 | 1338.66 | 0.51 | 93.25 | 117.39 | 1338.64 | 0.55 | 0.55 | 3.50 | 3.55 | 81.09 | 0.02 | TeleScope | 0 | 0 |
| 22 | 1367.75 | 0.54 | 94.83 | 29.09 | 1367.73 | 0.53 | 0.53 | 3.77 | 3.81 | 81.99 | 0.03 | TeleScope | 0 | 0 |
| 23 | 1456.65 | 0.52 | 105.25 | 88.90 | 1456.63 | 0.39 | 0.39 | 4.57 | 4.59 | 85.12 | 0.03 | TeleScope | 0 | 0 |
| 24 | 1530.18 | 0.55 | 90.58 | 73.53 | 1530.15 | 0.30 | 0.30 | 5.24 | 5.25 | 86.74 | 0.06 | TeleScope | 0 | 0 |
| 25 | 1596.34 | 0.49 | 77.67 | 66.16 | 1596.31 | 0.36 | 0.36 | 5.84 | 5.85 | 86.51 | 0.06 | TeleScope | 0 | 0 |
| 26 | 1625.50 | 0.47 | 69.82 | 29.16 | 1625.48 | 0.42 | 0.42 | 6.08 | 6.09 | 86.01 | 0.07 | TeleScope | 0 | 0 |
| 27 | 1682.67 | 0.41 | 85.01 | 57.16 | 1682.63 | 0.52 | 0.52 | 6.50 | 6.52 | 85.40 | 0.07 | TeleScope | 0 | 0 |
| 28 | 1767.94 | 0.46 | 80.24 | 85.27 | 1767.90 | 0.61 | 0.61 | 7.14 | 7.17 | 85.14 | 0.02 | TeleScope | 0 | 0 |
| 29 | 1858.33 | 0.33 | 65.19 | 90.39 | 1858.29 | 0.78 | 0.78 | 7.73 | 7.77 | 84.27 | 0.06 | TeleScope | 0 | 0 |
| 30 | 1913.35 | 0.48 | 64.16 | 55.02 | 1913.31 | 0.94 | 0.94 | 8.08 | 8.13 | 83.35 | 0.08 | TeleScope | 0 | 0 |
| 31 | 1941.91 | 0.47 | 69.15 | 28.56 | 1941.87 | 1.03 | 1.03 | 8.29 | 8.36 | 82.89 | 0.04 | TeleScope | 0 | 0 |
| 32 | 2028.47 | 0.60 | 92.17 | 86.56 | 2028.43 | 1.14 | 1.14 | 9.08 | 9.15 | 82.83 | 0.09 | TeleScope | 0 | 0 |
| 33 | 2076.18 | 0.73 | 87.08 | 47.71 | 2076.13 | 1.15 | 1.15 | 9.63 | 9.70 | 83.20 | 0.09 | TeleScope | 0 | 0 |
| 34 | 2100.00 | 0.73 | 87.08 | 23.82 | 2099.95 | 1.16 | 1.16 | 9.93 | 10.00 | 83.32 | 0.00 | Manual | 9 | |

| | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Merge Composite | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | |
|--------------------|--|--|-------------|--|--|--|--|--|--------------------------------|--|--|---------|--|--|
| Software Version | | | | | | | | | | | | | | |
| Acquisition System | | | | | | | | | Version | | | | | |
| MaxWell | | | | | | | | | 1.2.8706.0 | | | | | |
| Framework Patch | | | | | | | | | FWK-BGC-20090709-1.2.8706.1016 | | | | | |
| Application Patch | | | | | | | | | APL-BGC-DnM-1.2.8706.1021 | | | | | |
| Computation | | | Description | | | | | | | | | Version | | |
| SYSTEM ENSEMBLE | | | | | | | | | | | | | | |

| | | | | | | | |
|--|----------------|-------------|----------|-----------|------------------------|------------------------|--|
| Computation | | Description | | | | Version | |
| SYSTEM ENSEMBLE | | | | | | | |
| Composite Summary | | | | | | | |
| Run Name | Pass Objective | Direction | Top | Bottom | Acquisition Start Date | Acquisition Start Time | |
| Run 2 | LasFileLap | Down | 180.00 m | 2089.88 m | | | |
| Run 1 | LasFileLap | Down | 180.14 m | 2100.22 m | | | |
| All depths are referenced to toolstring zero | | | | | | | |

| | | | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Log | | Merge Composite B2AAB10F-B8EC-4FBD-B520-EAF63200D08D | | | | | | | | | | | | |
|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

Description: ARC Dual Frequency Resistivity RT Format: Log (Quad Combo RM VISION Service) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth
Creation Date: 17-Sep-2009 10:37:35

| | |
|------|-------------------------------|
| DRHO | 6in - RM Run #1:LasFileLap |
| DTCO | 6in - RM Run #2:LasFileLap |
| GR | 6in - RM Run #2:LasFileLap |
| HORD | 6in - RM Run #1:LasFileLap |
| P16H | 6in - RM Run #1:LasFileLap |
| P22H | 6in - RM Run #1:LasFileLap |
| P28H | 6in - RM Run #1:LasFileLap |
| P34H | 6in - RM Run #1:LasFileLap |
| P40H | 6in - RM Run #1:LasFileLap |

| | | |
|---------|----------|-------------------|
| PEF | 6in - RM | Run #1:LasFileLap |
| RHOB | 6in - RM | Run #1:LasFileLap |
| ROP5 | 6in - RT | Run #1:LasFileLap |
| RPM | 6in - RM | Run #1:LasFileLap |
| TAB_DEN | 6in | Run #1:LasFileLap |
| TNPH | 6in - RM | Run #1:LasFileLap |
| VERD | 6in - RM | Run #1:LasFileLap |

└ RHOB - Bulk Density

DTCO - Delta-T Compressional -

—P16H - Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected.

- GR - Gamma Ray

TNPH - Thermal Neutron Porosity (Ratio Method) in Selected Lithology-

Phase Shift Resistivity 16 inch
Spacing at 2 MHz, Environmentally
Corrected. (P16H)

| | | |
|-----|-------|------|
| 0.2 | ohm.m | 2000 |
|-----|-------|------|

Phase Shift Resistivity 40 inch
Spacing at 2 MHz, Environmentally
Corrected. (P40H)

| | | |
|-----|-------|------|
| 0.2 | ohm.m | 2000 |
|-----|-------|------|

Phase Shift Resistivity 34 inch
Spacing at 2 MHz, Environmentally
Corrected. (P34H)

| | | |
|-----|-------|------|
| 0.2 | ohm.m | 2000 |
|-----|-------|------|

Phase Shift Resistivity 28 inch
Spacing at 2 MHz, Environmentally
Corrected. (P28H)

0.2 ohm.m 2000

Phase Shift Resistivity 22 inch
Spacing at 2 MHz, Environmentally
Corrected. (P22H)

0.2 ohm.m 2000

Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)

45 pu -15

Photoelectric Factor (PEF)

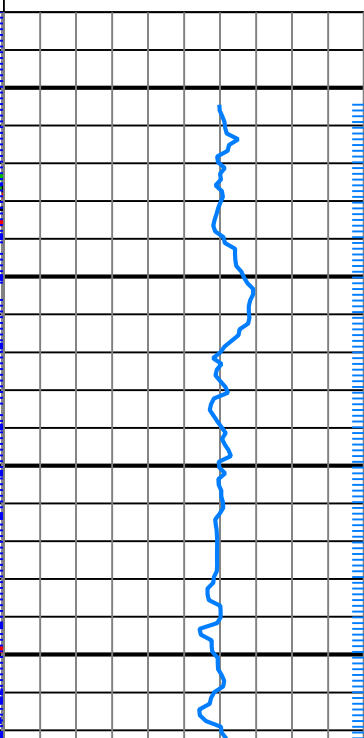
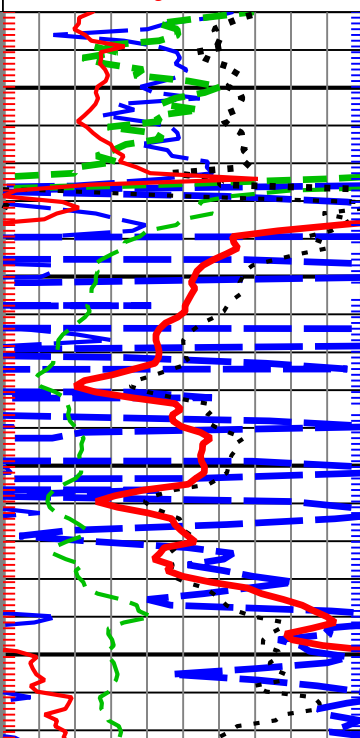
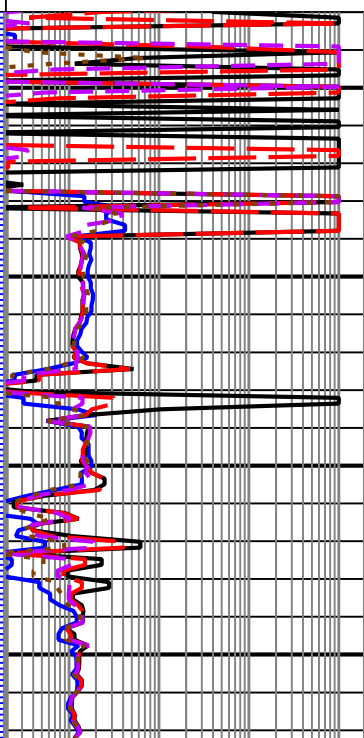
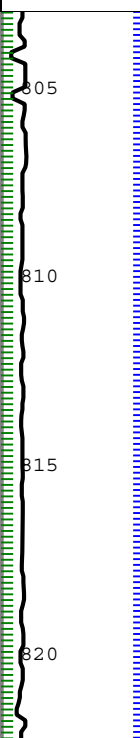
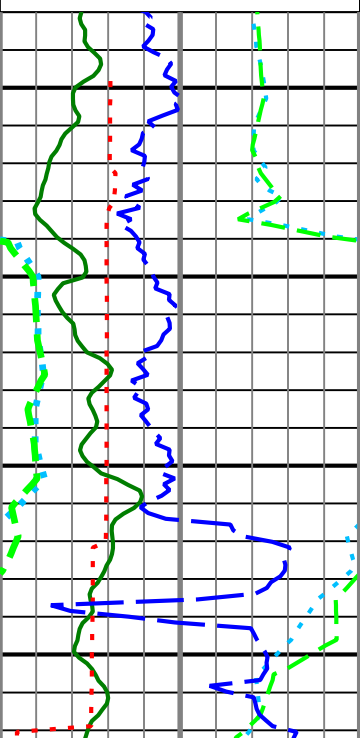
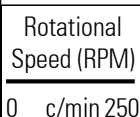
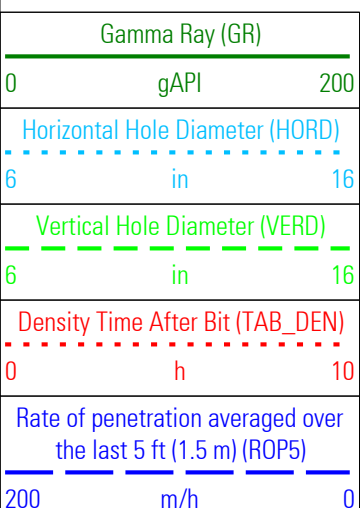
0 10

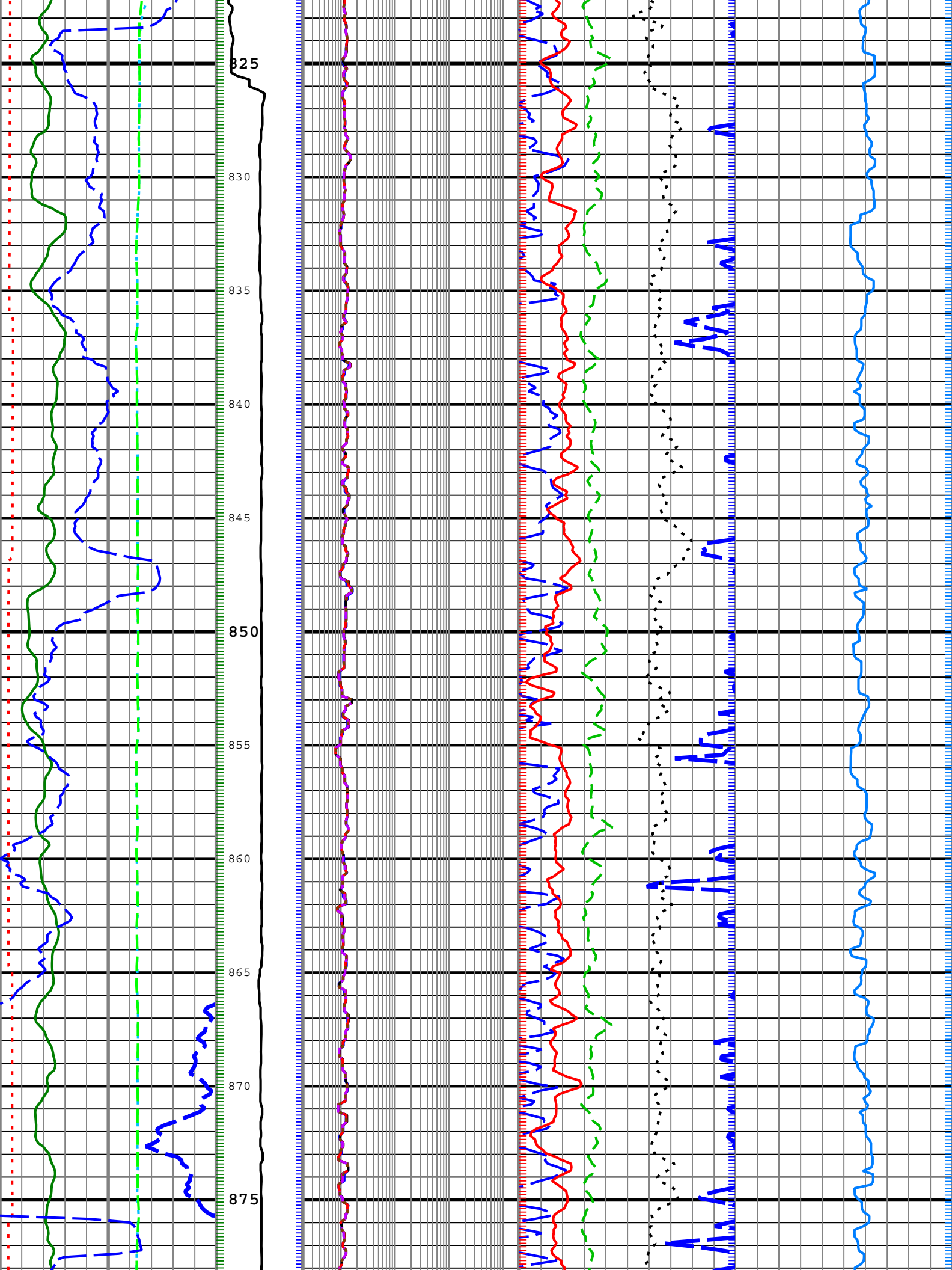
Bulk Density Correction (DRHO)

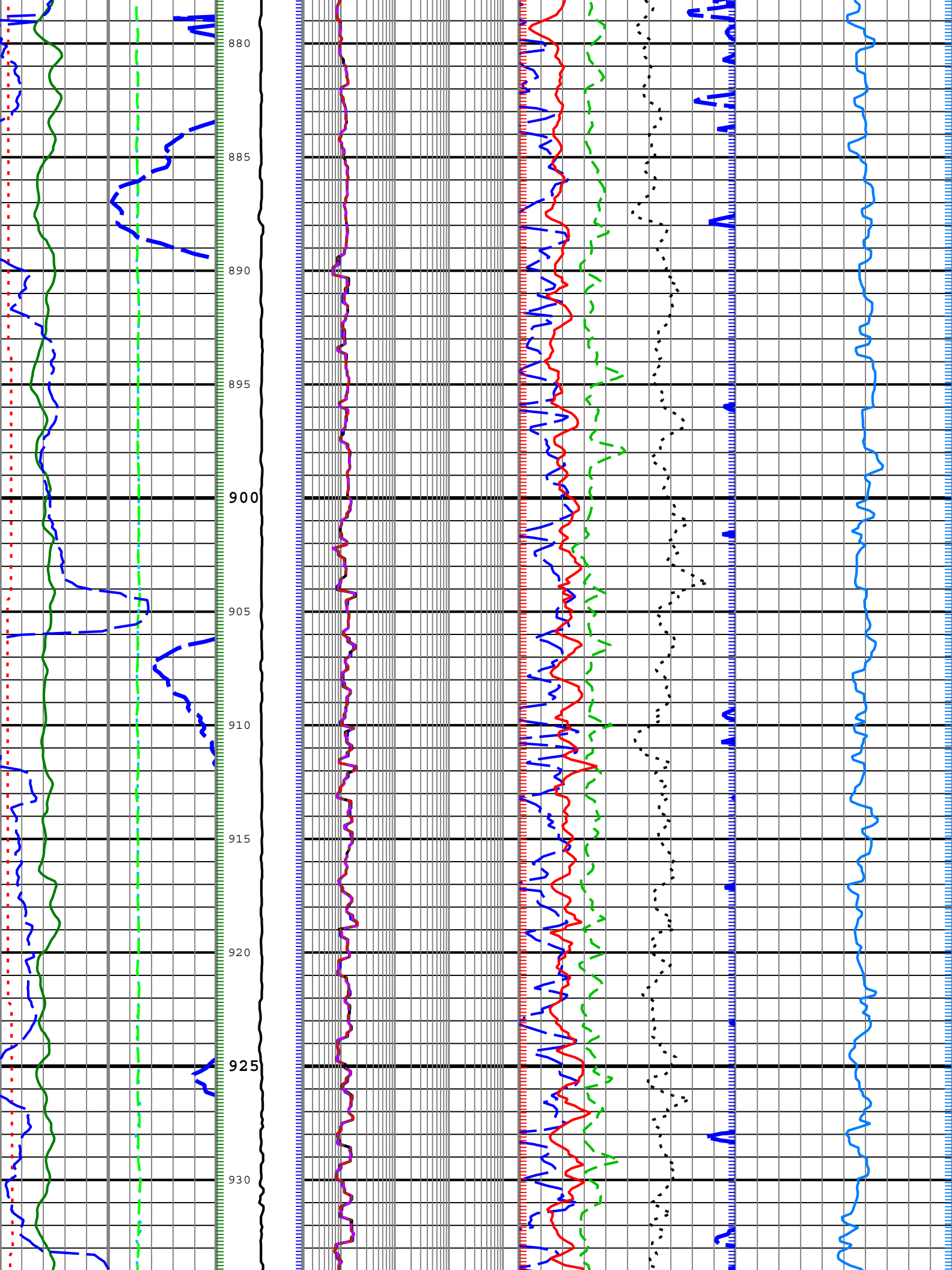
-0.25 g/cm³ 0.25

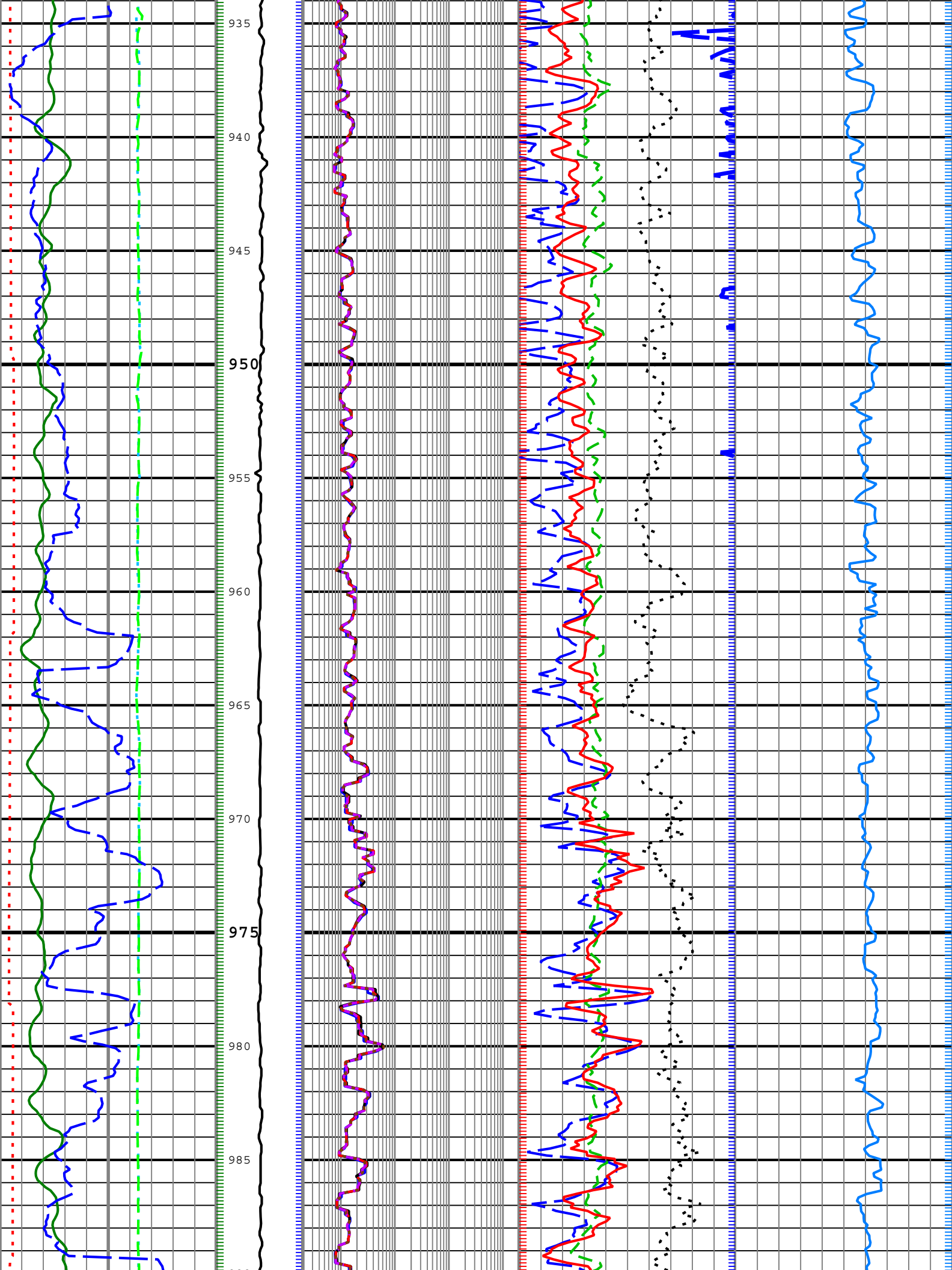
Bulk Density (RHOB)

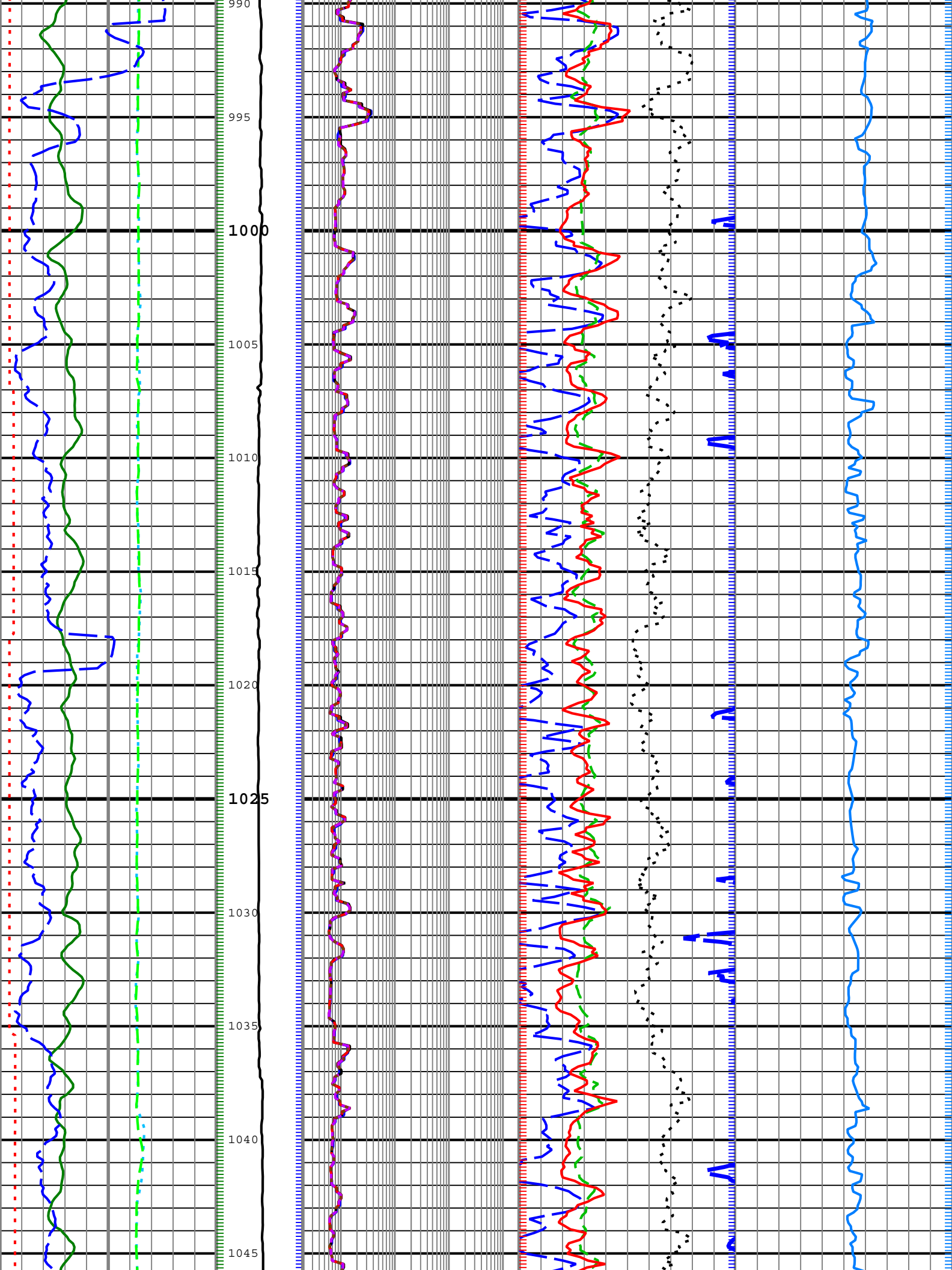
Delta-T Compressional (DTCO)

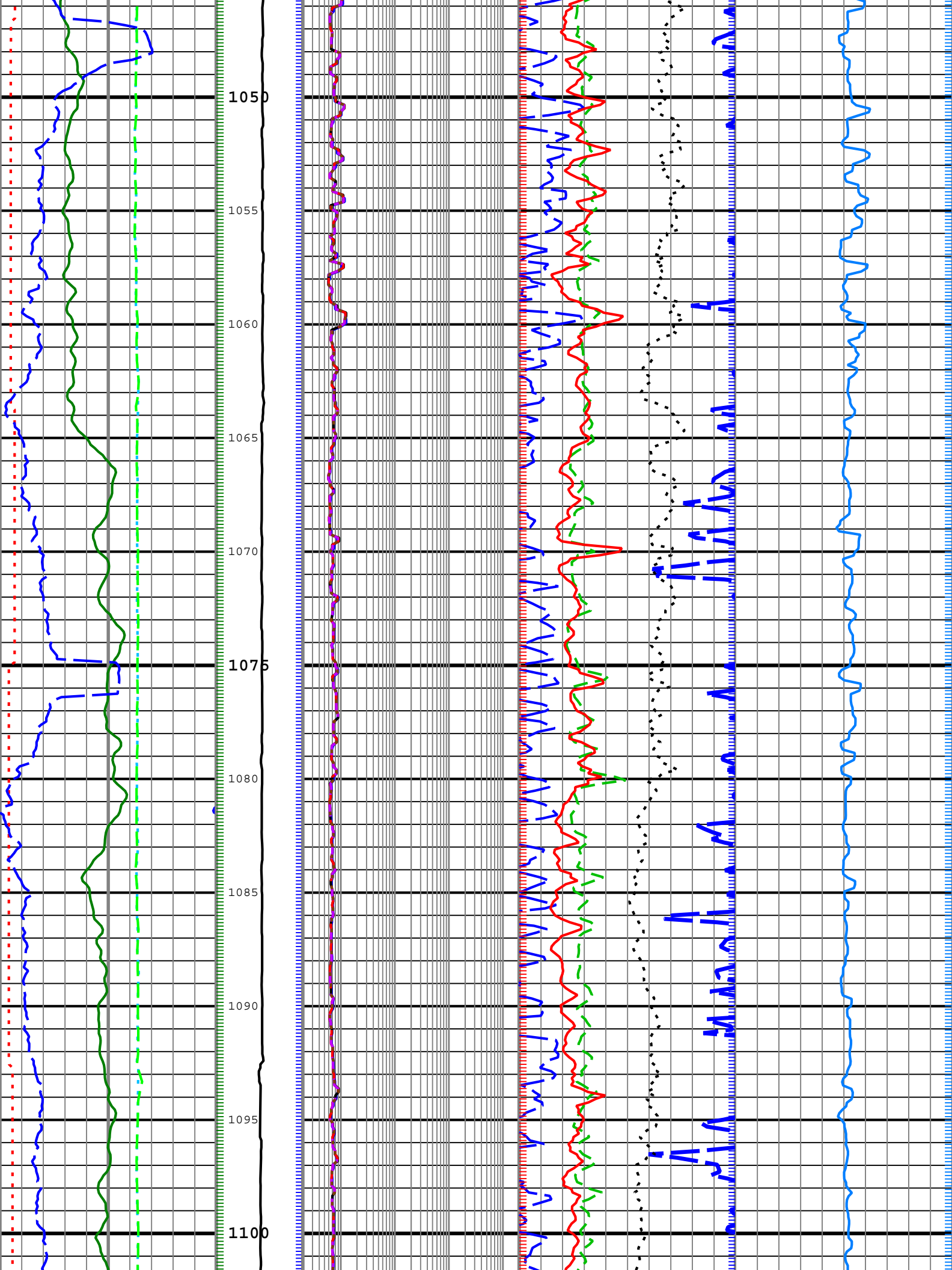


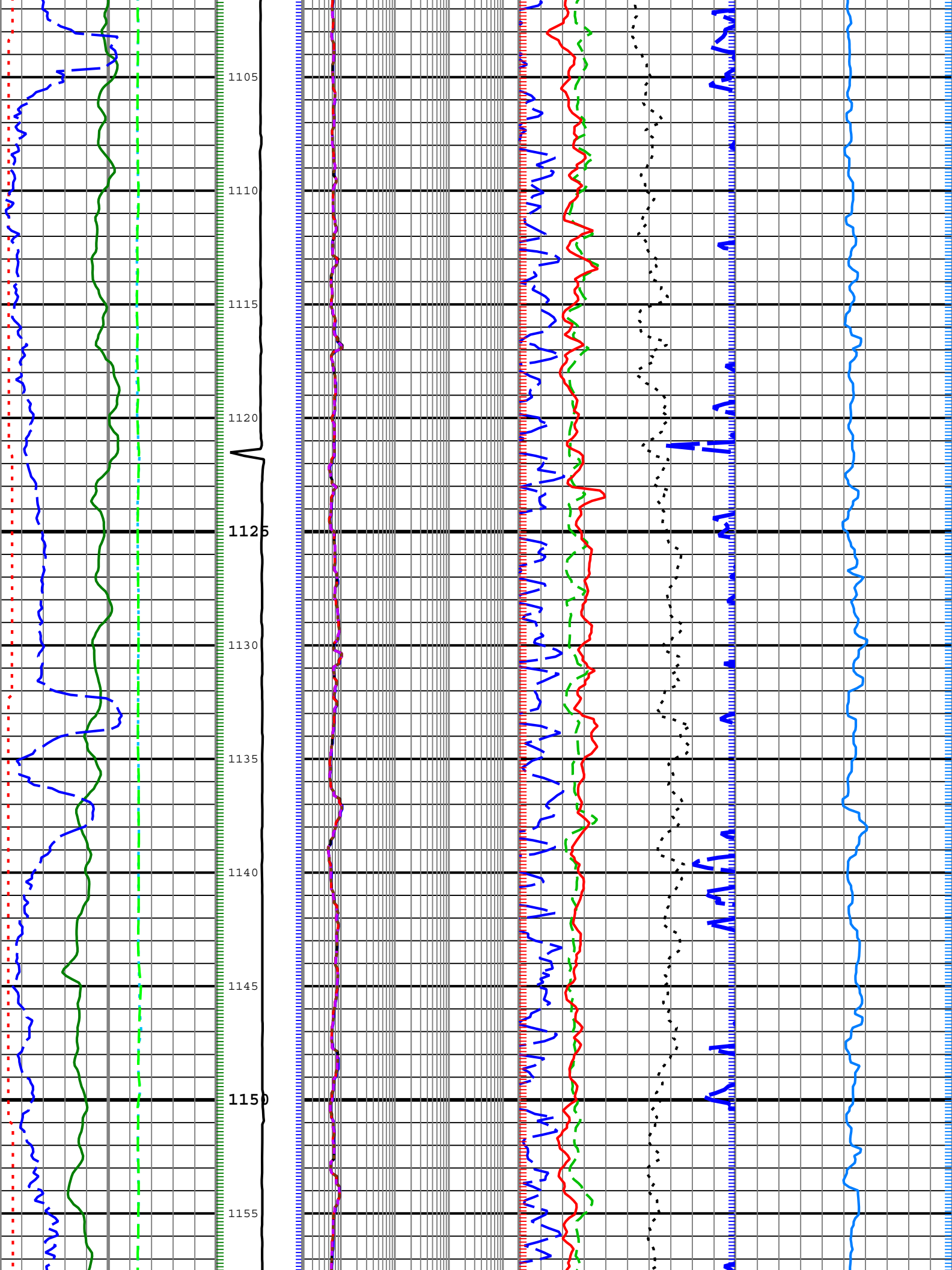


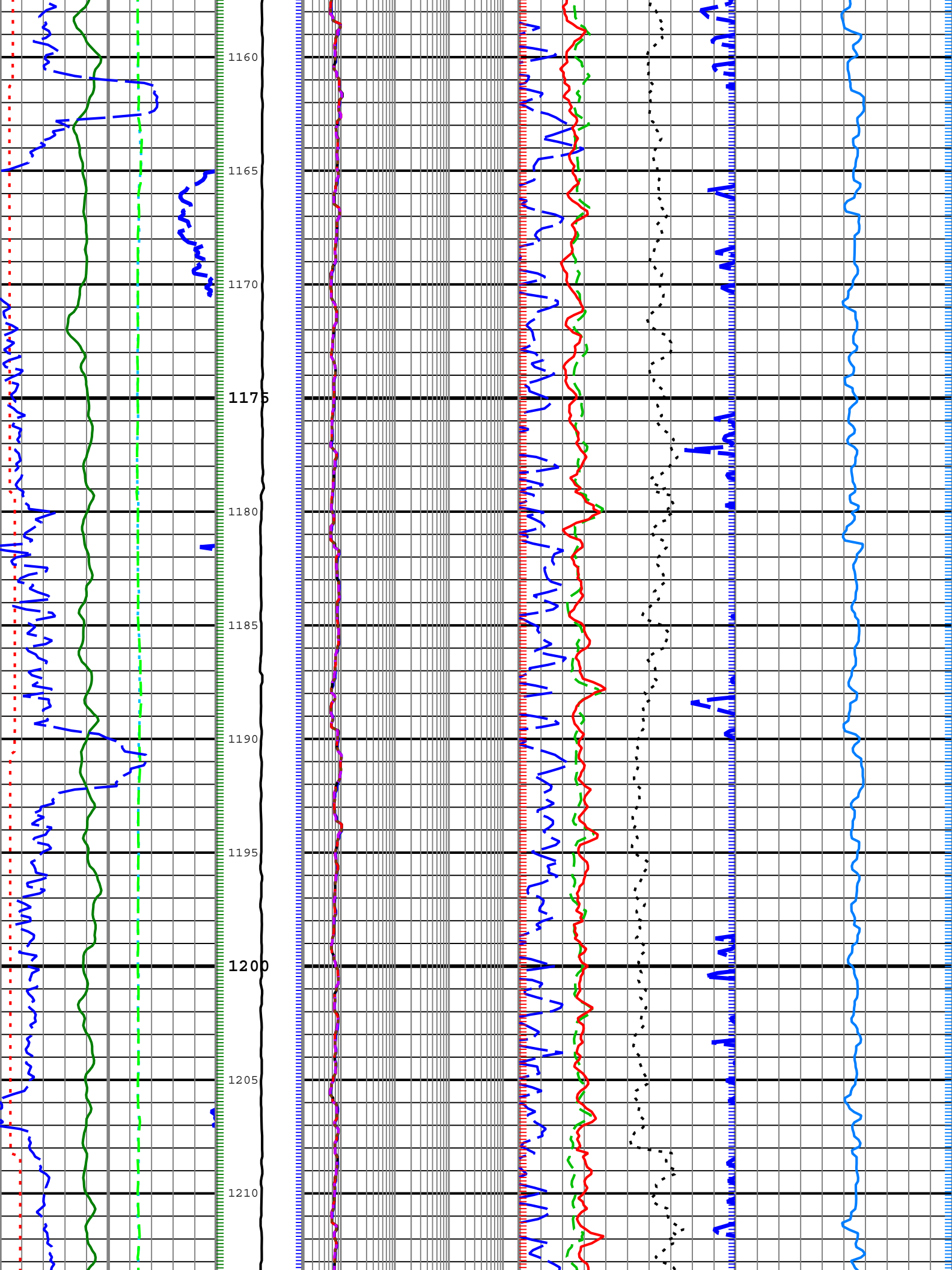


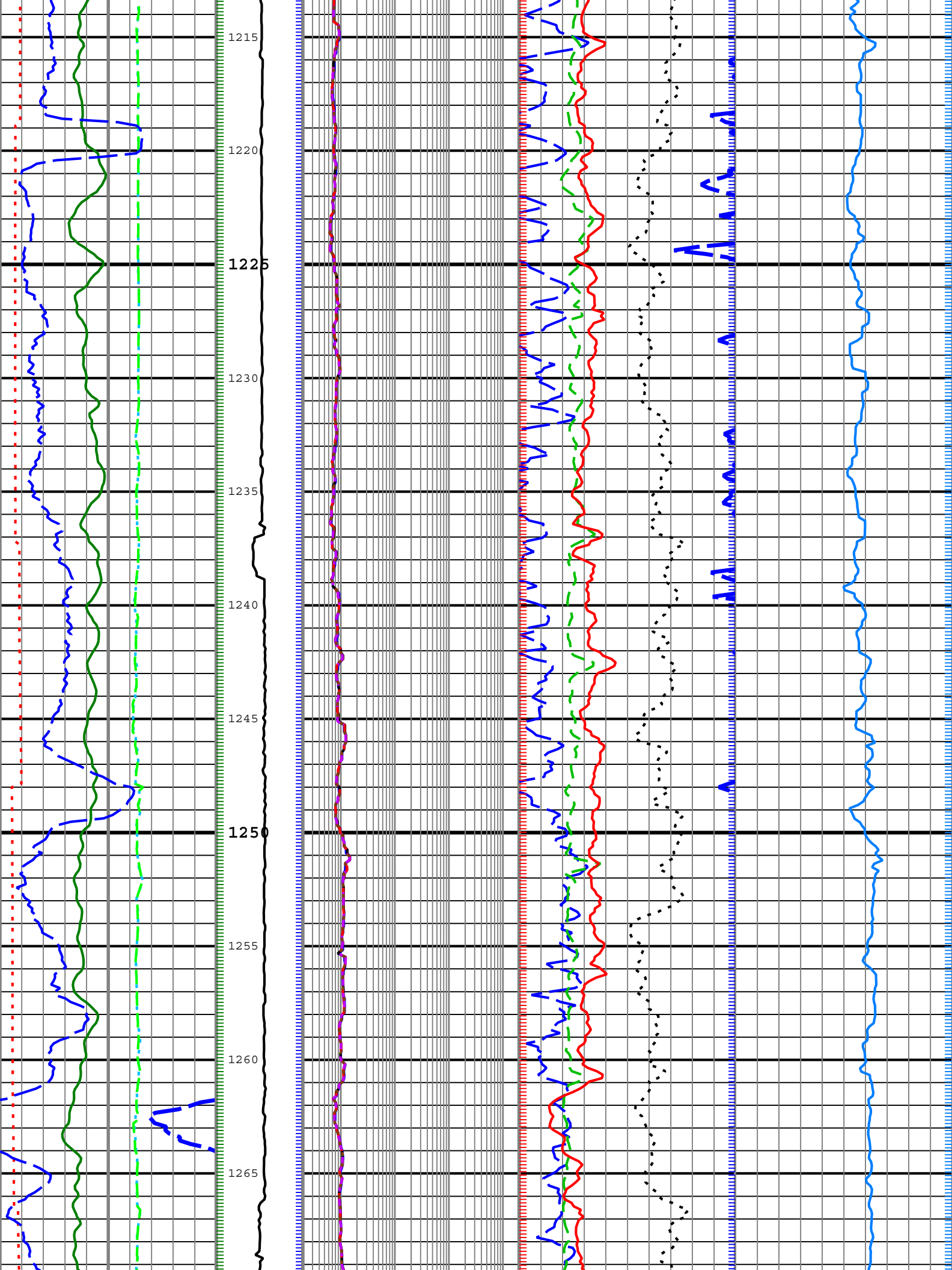


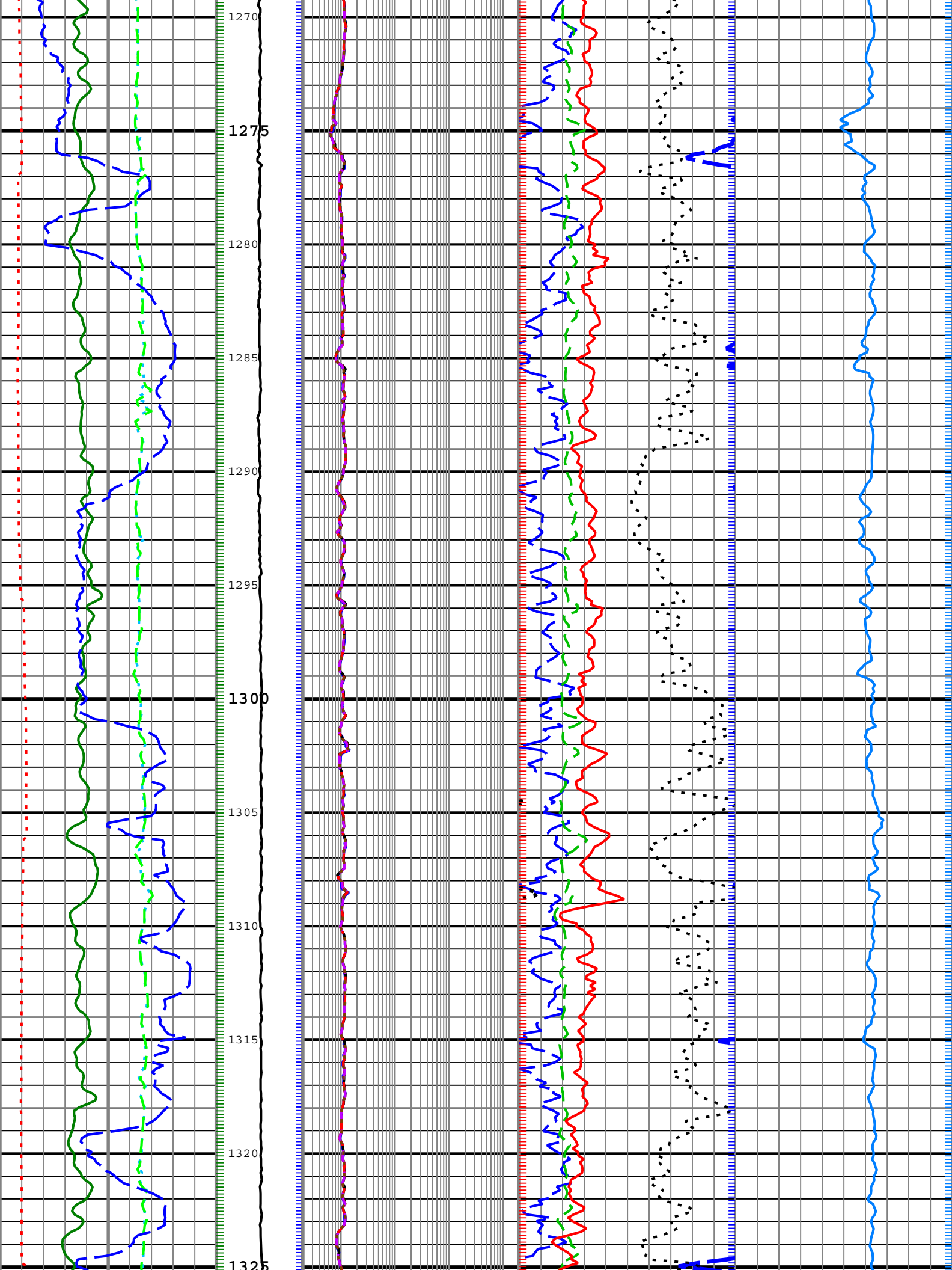


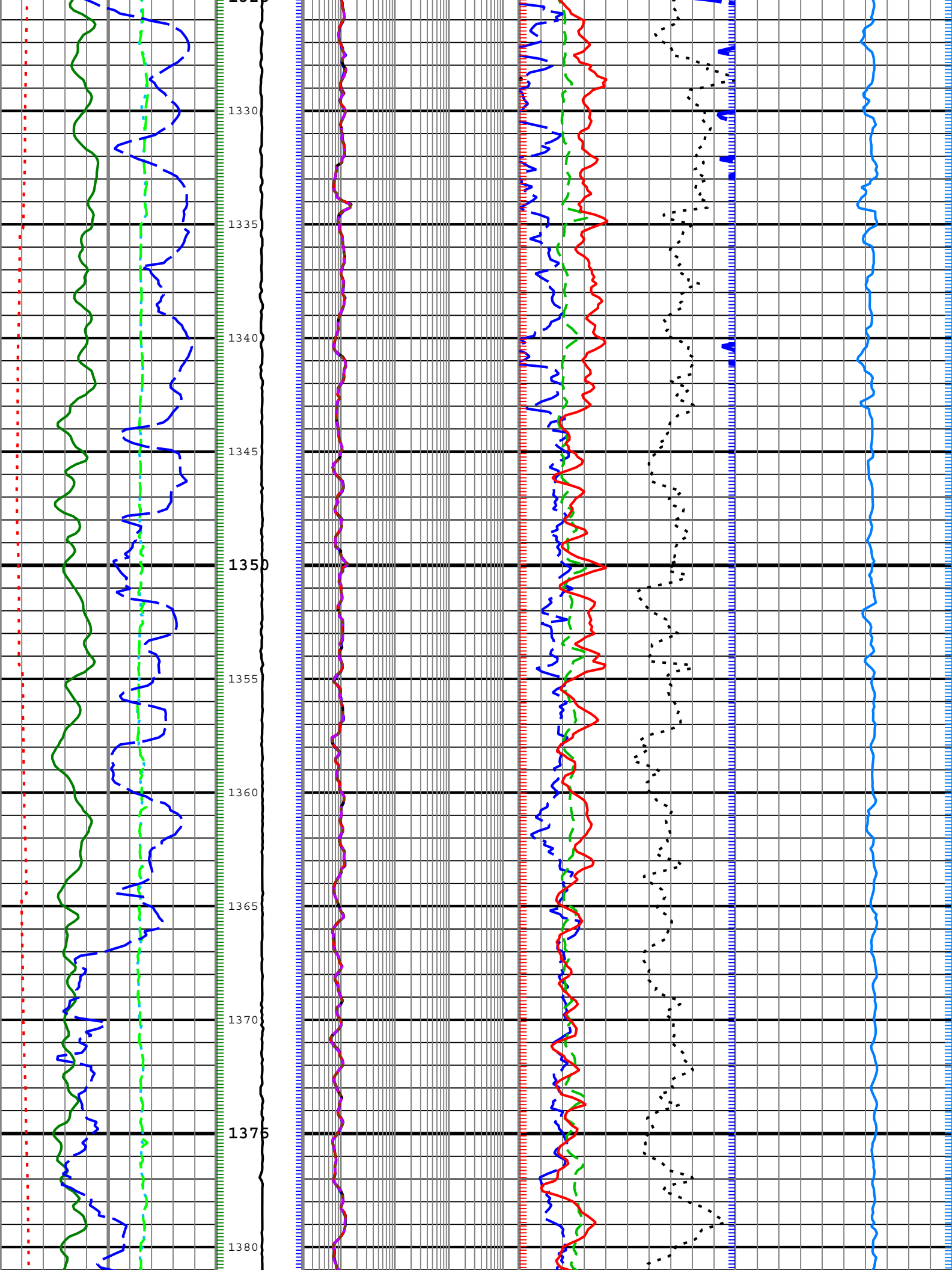


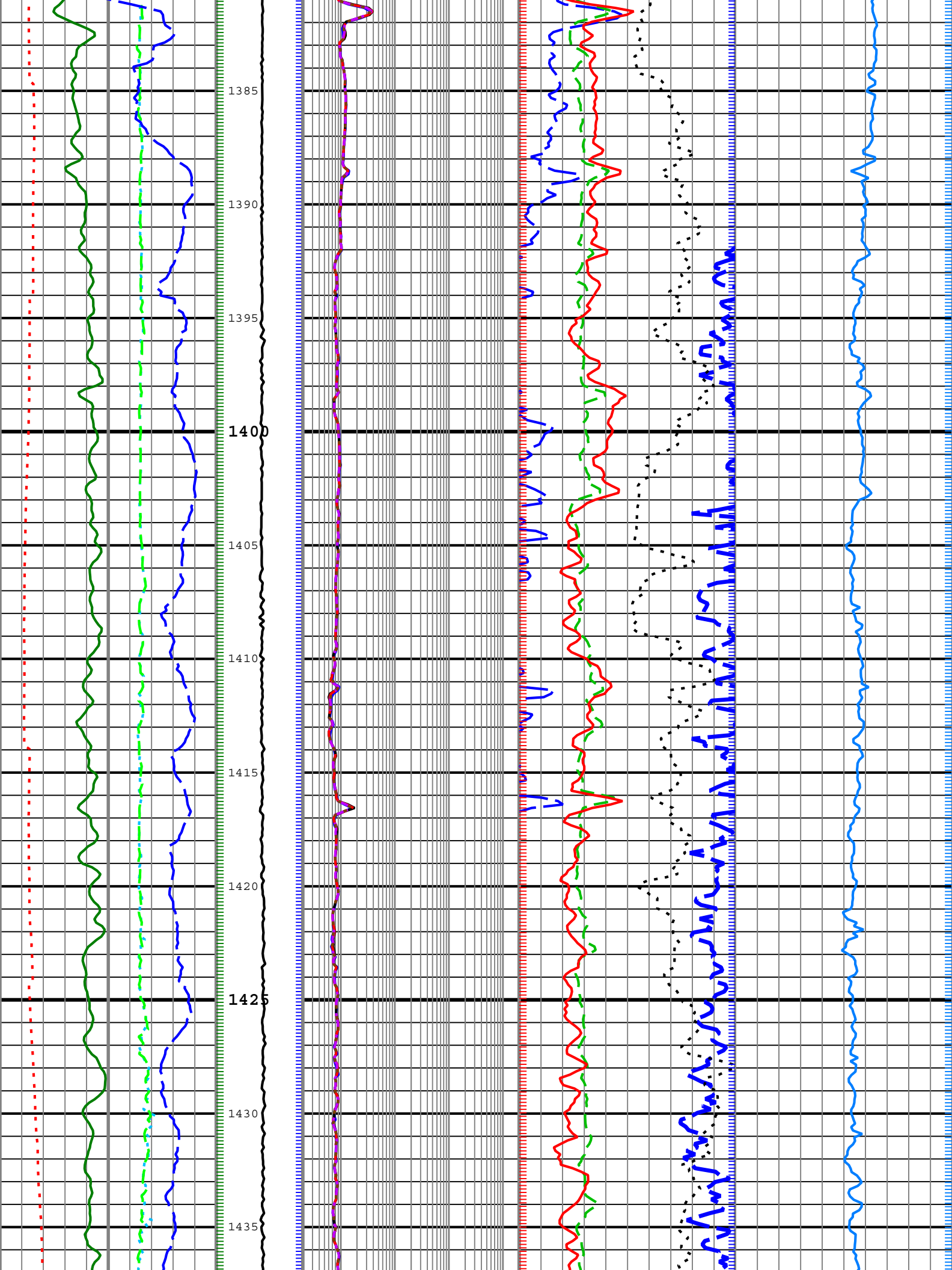


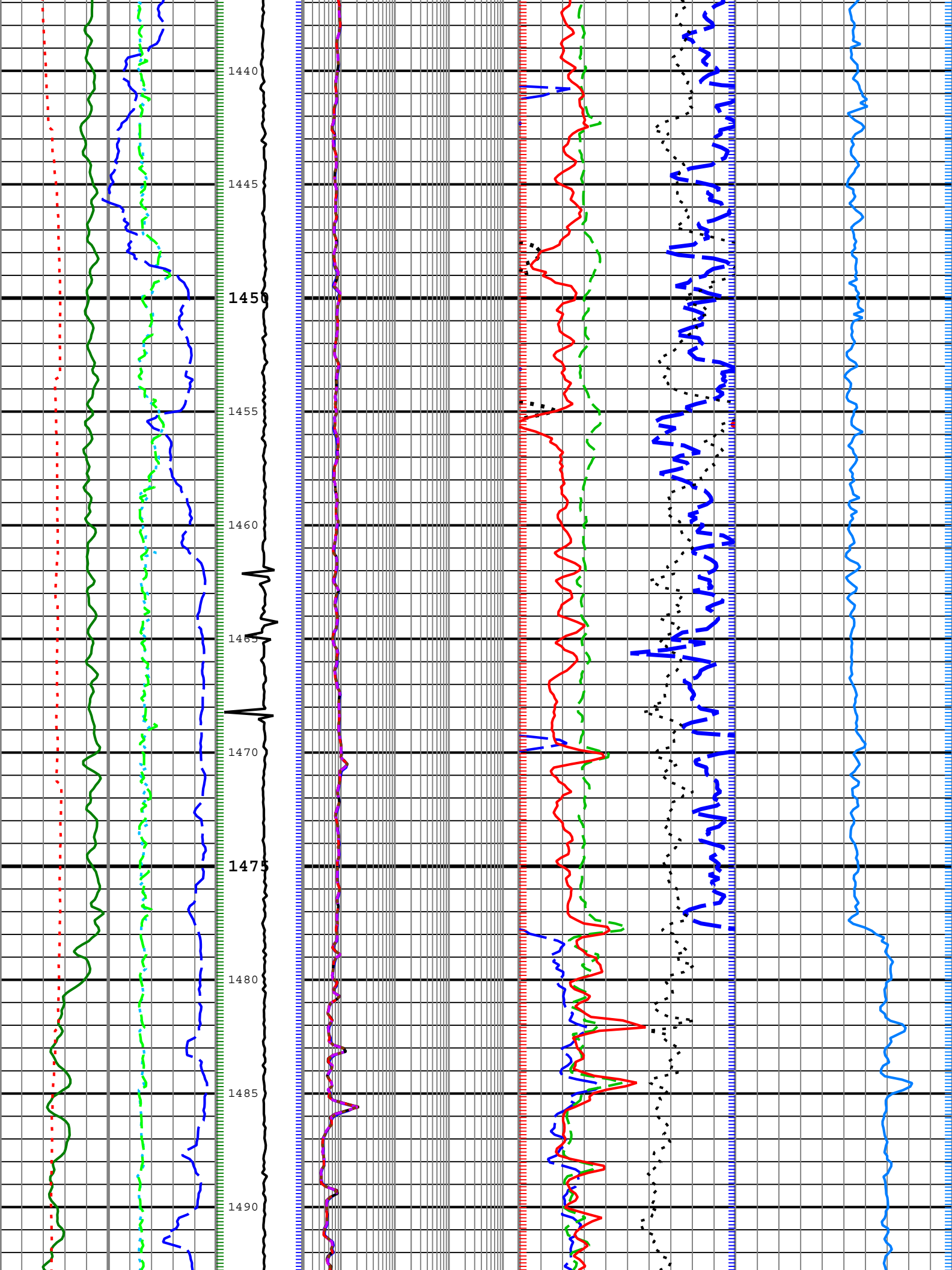


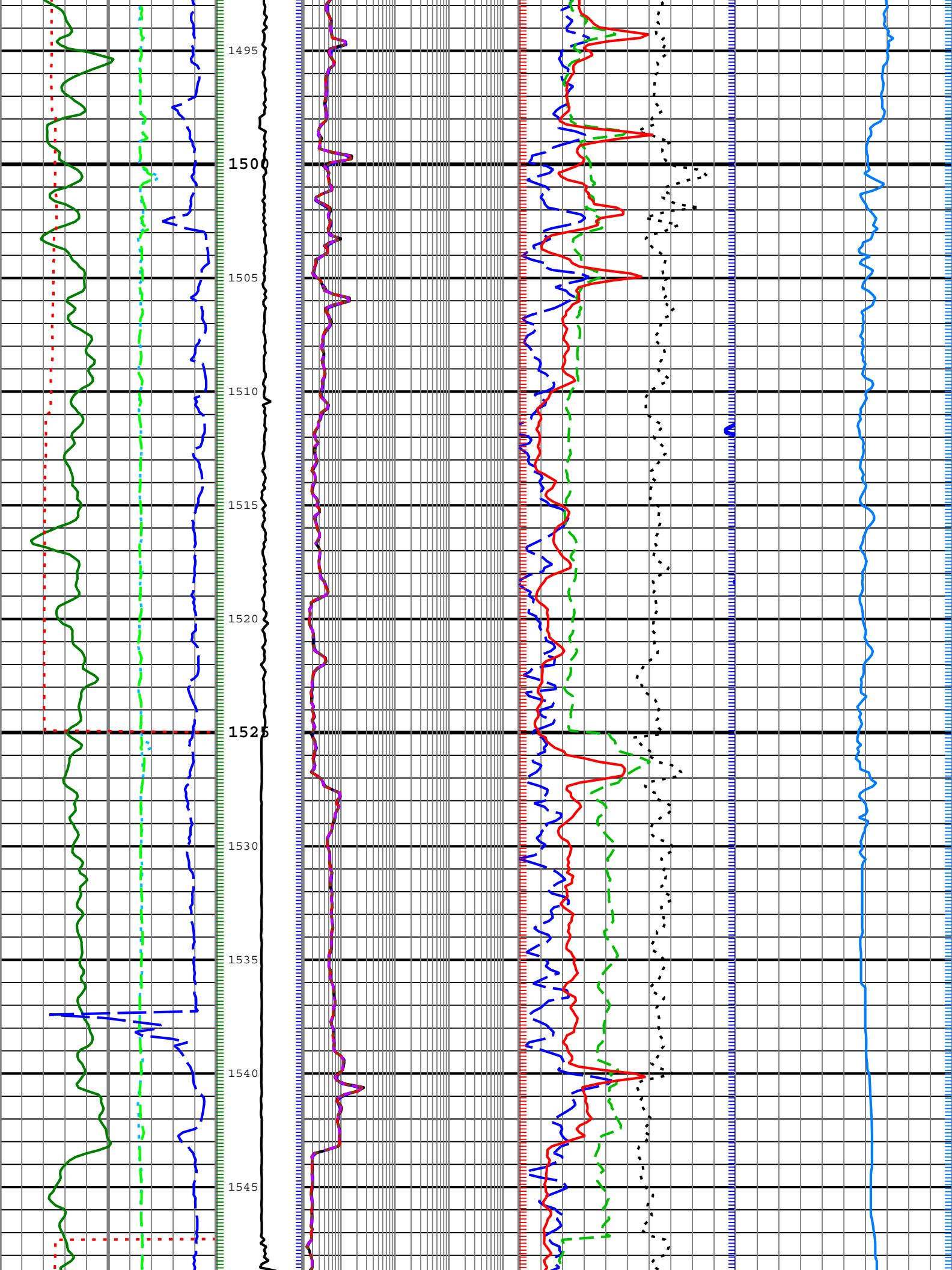


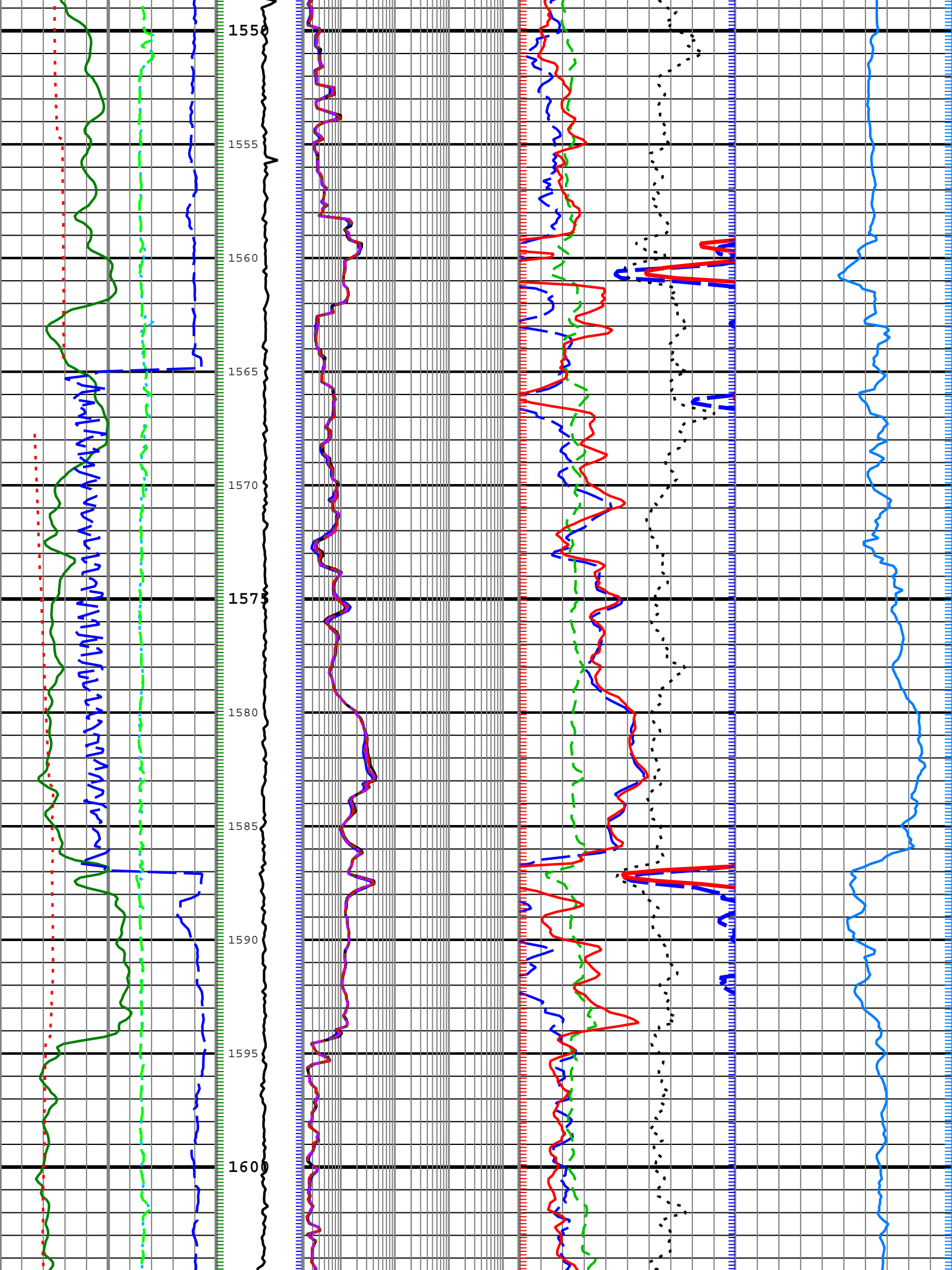


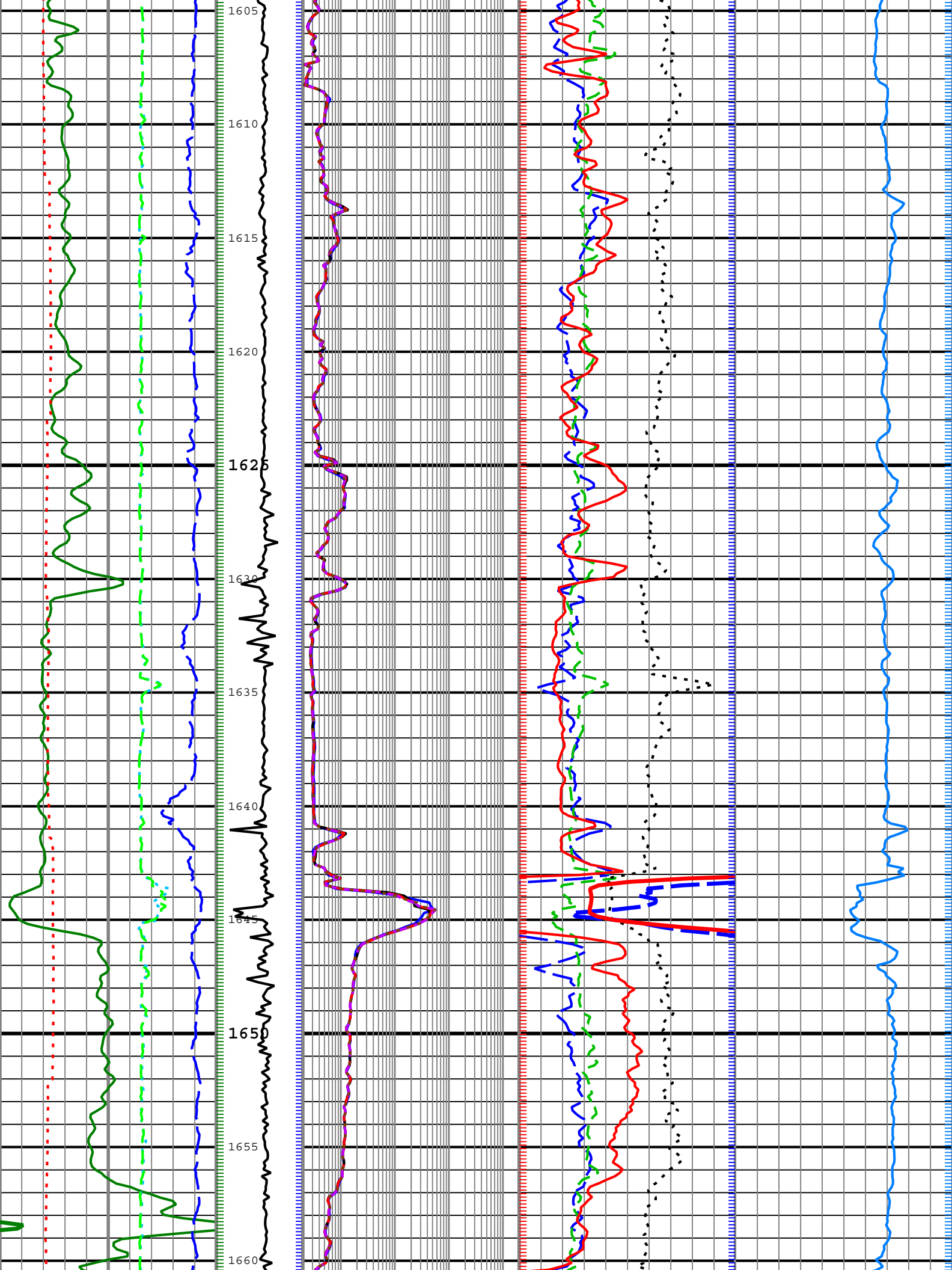


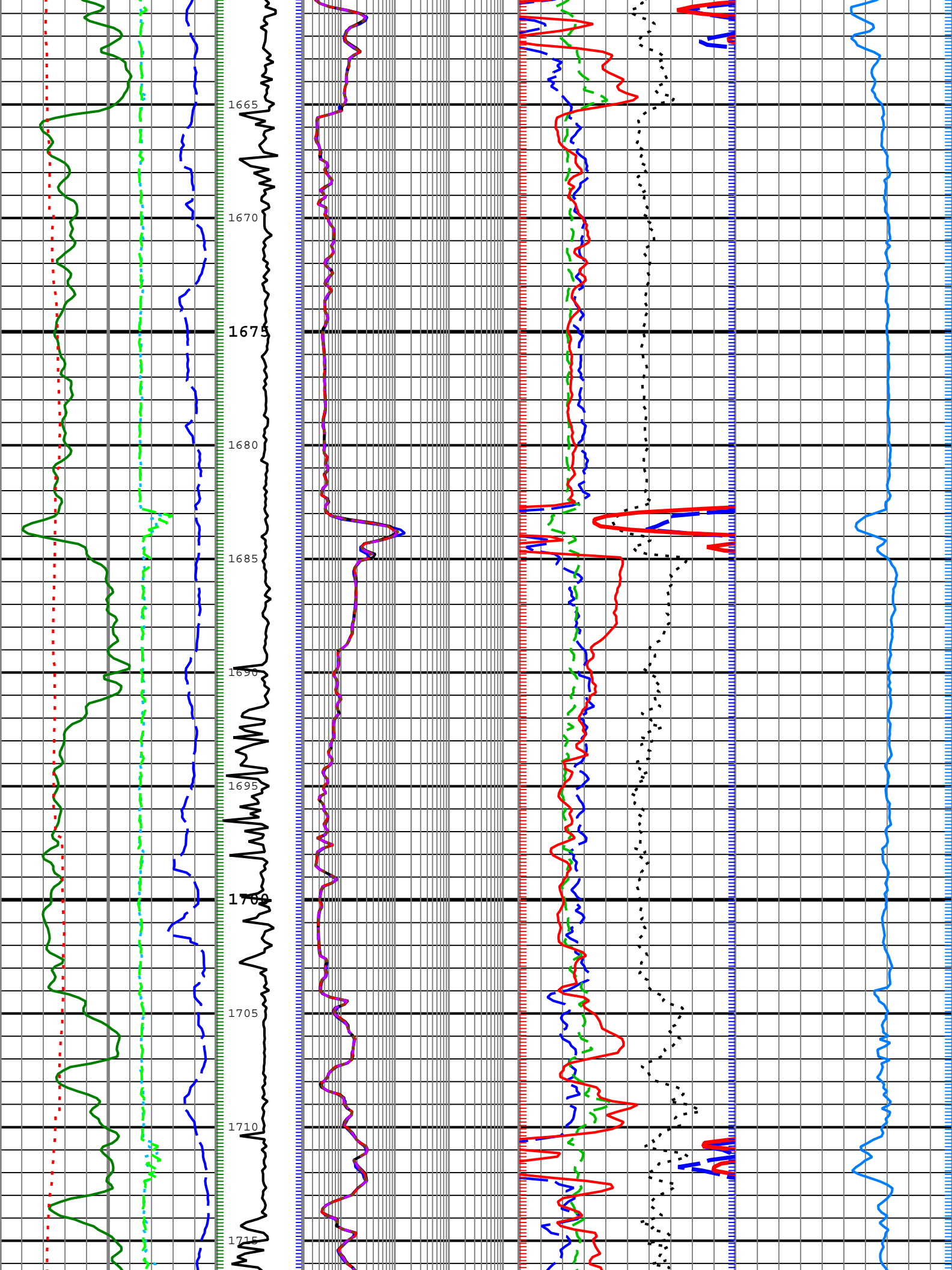


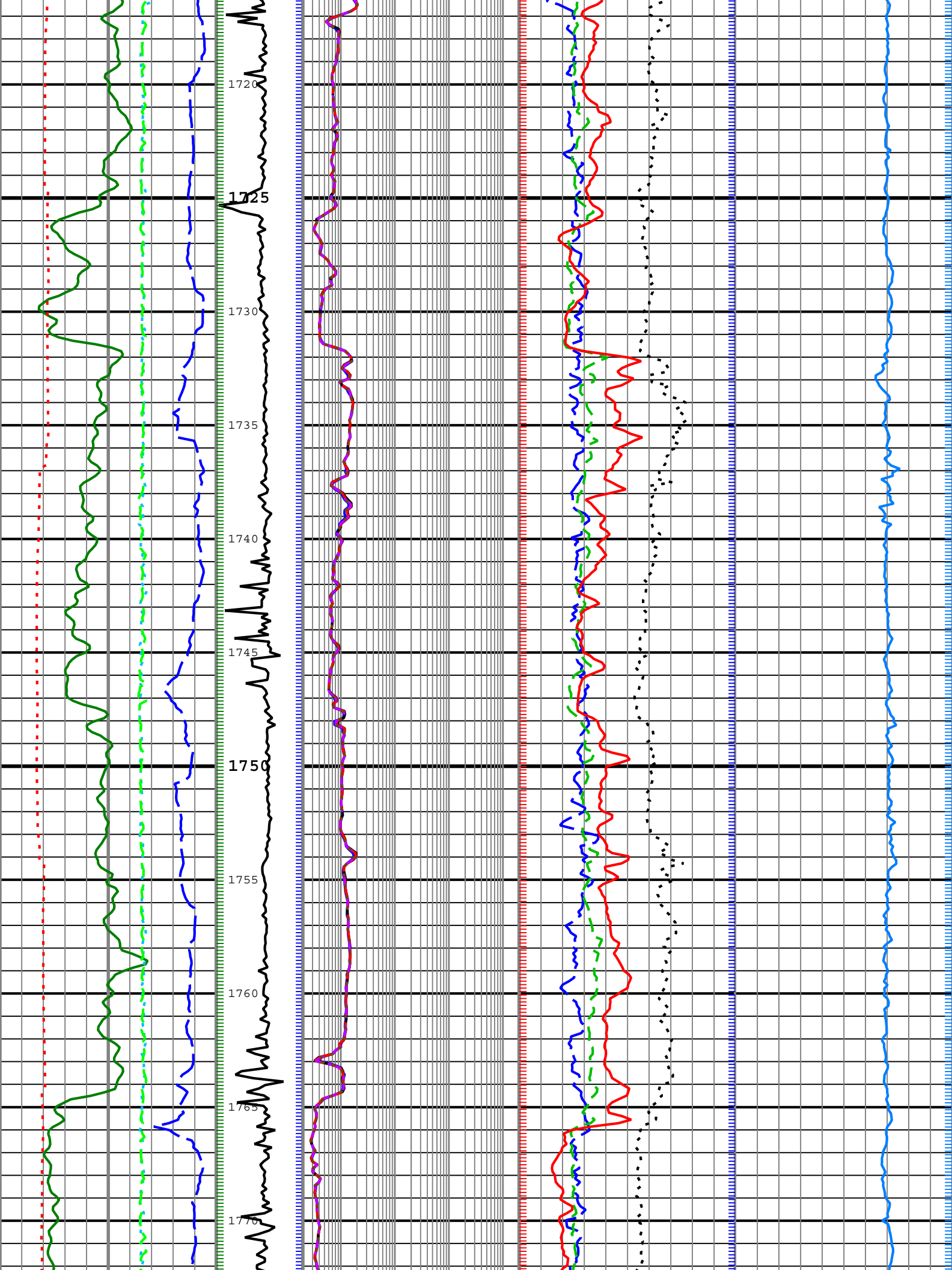


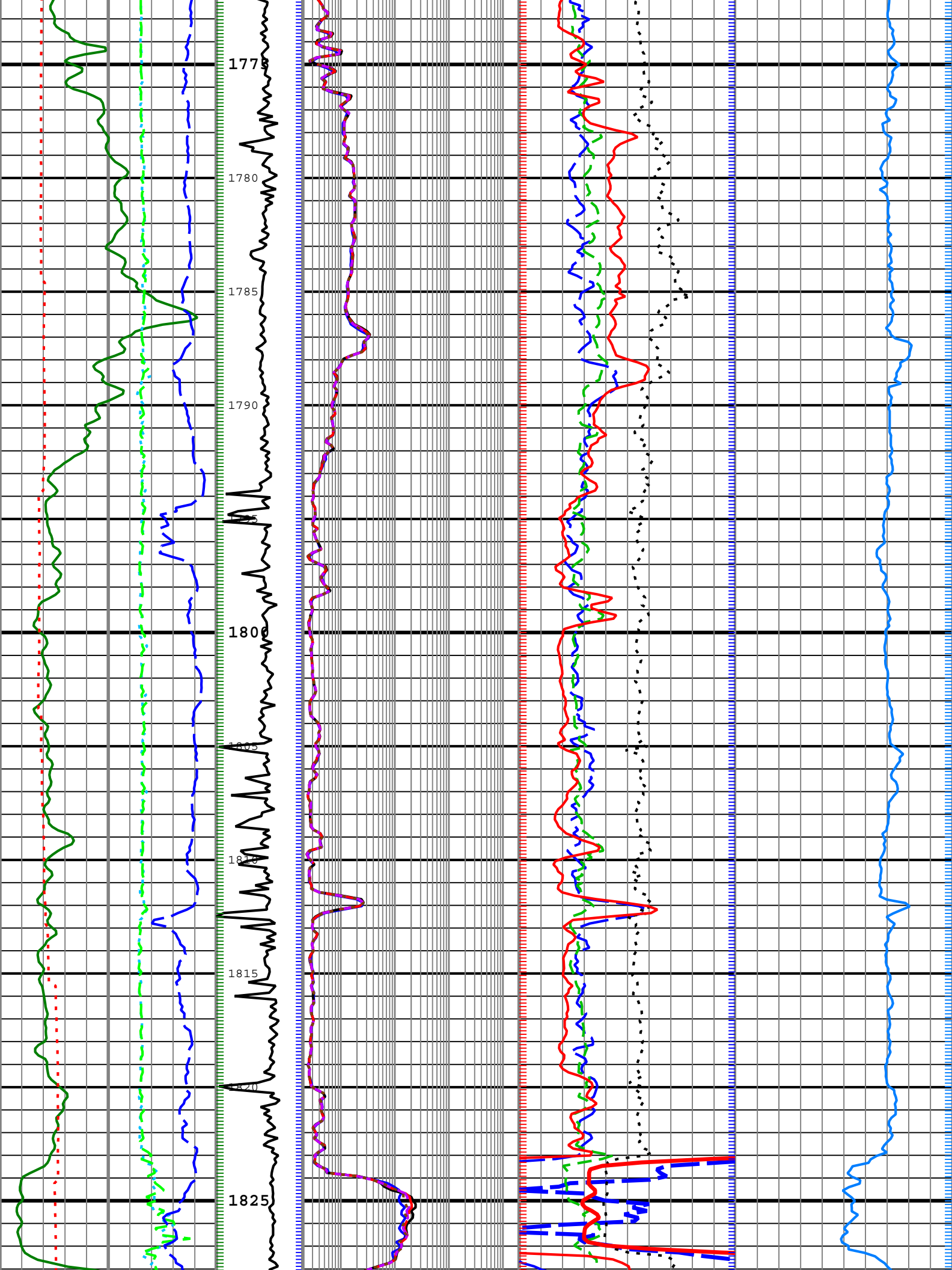


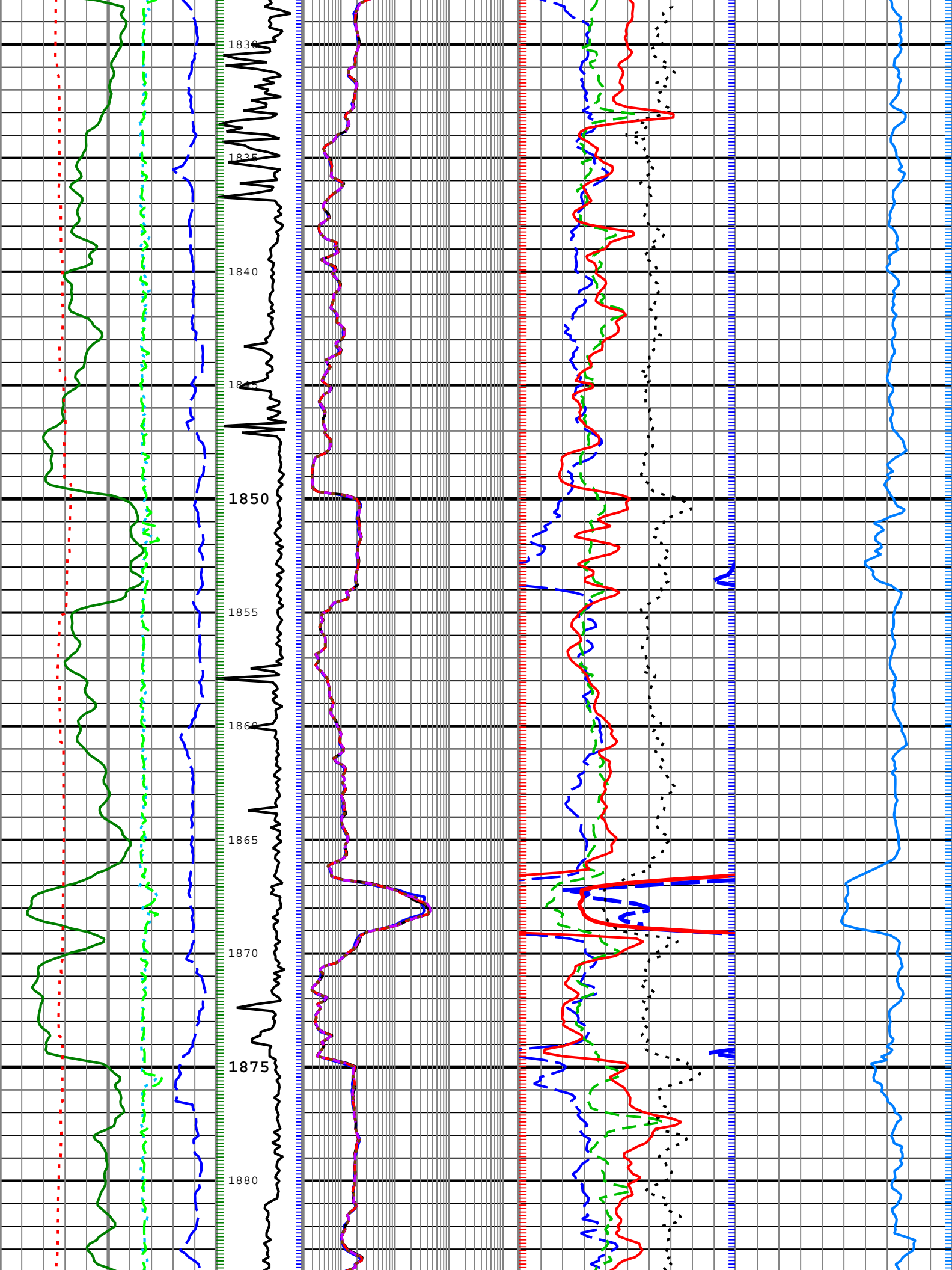


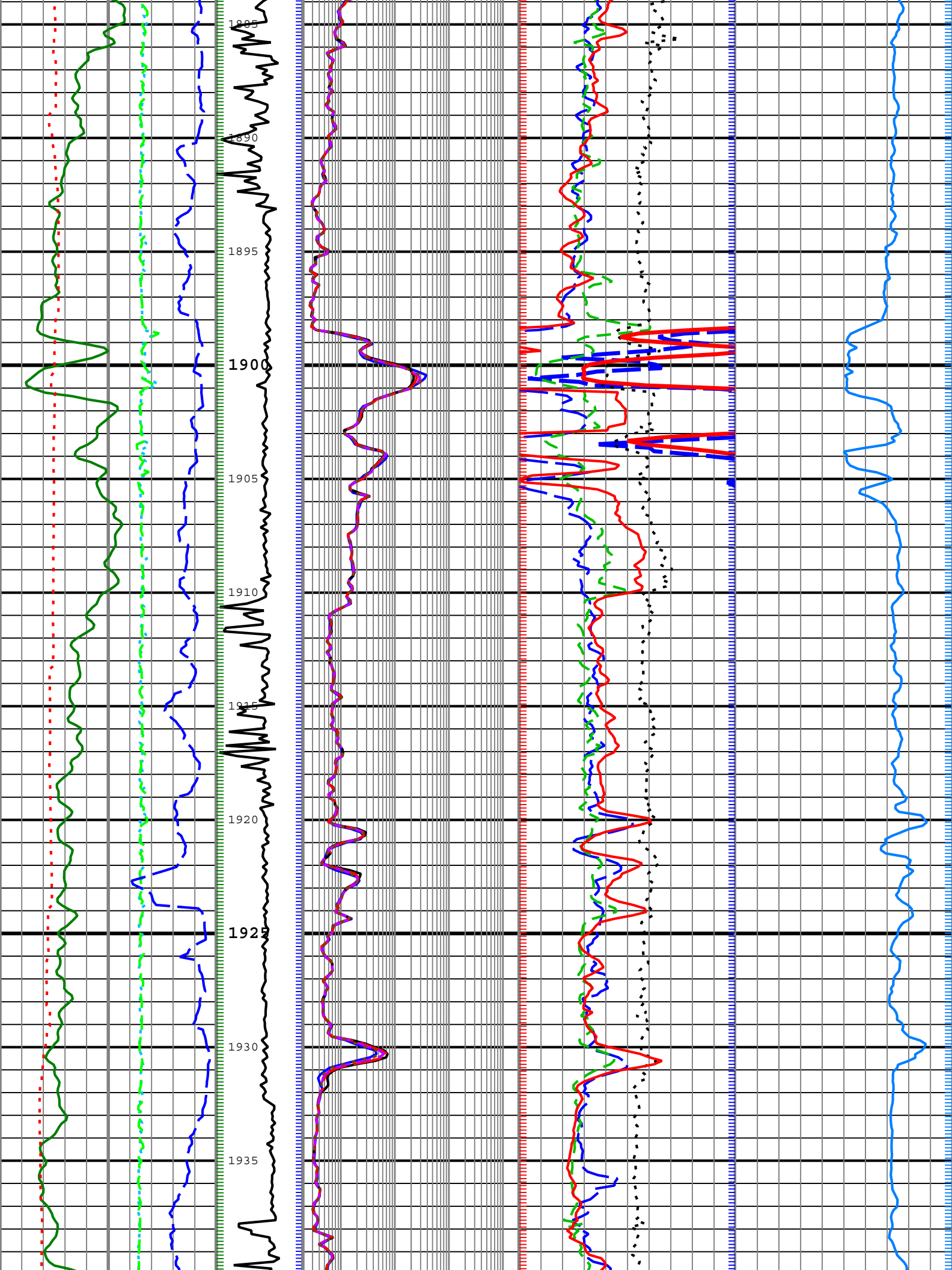


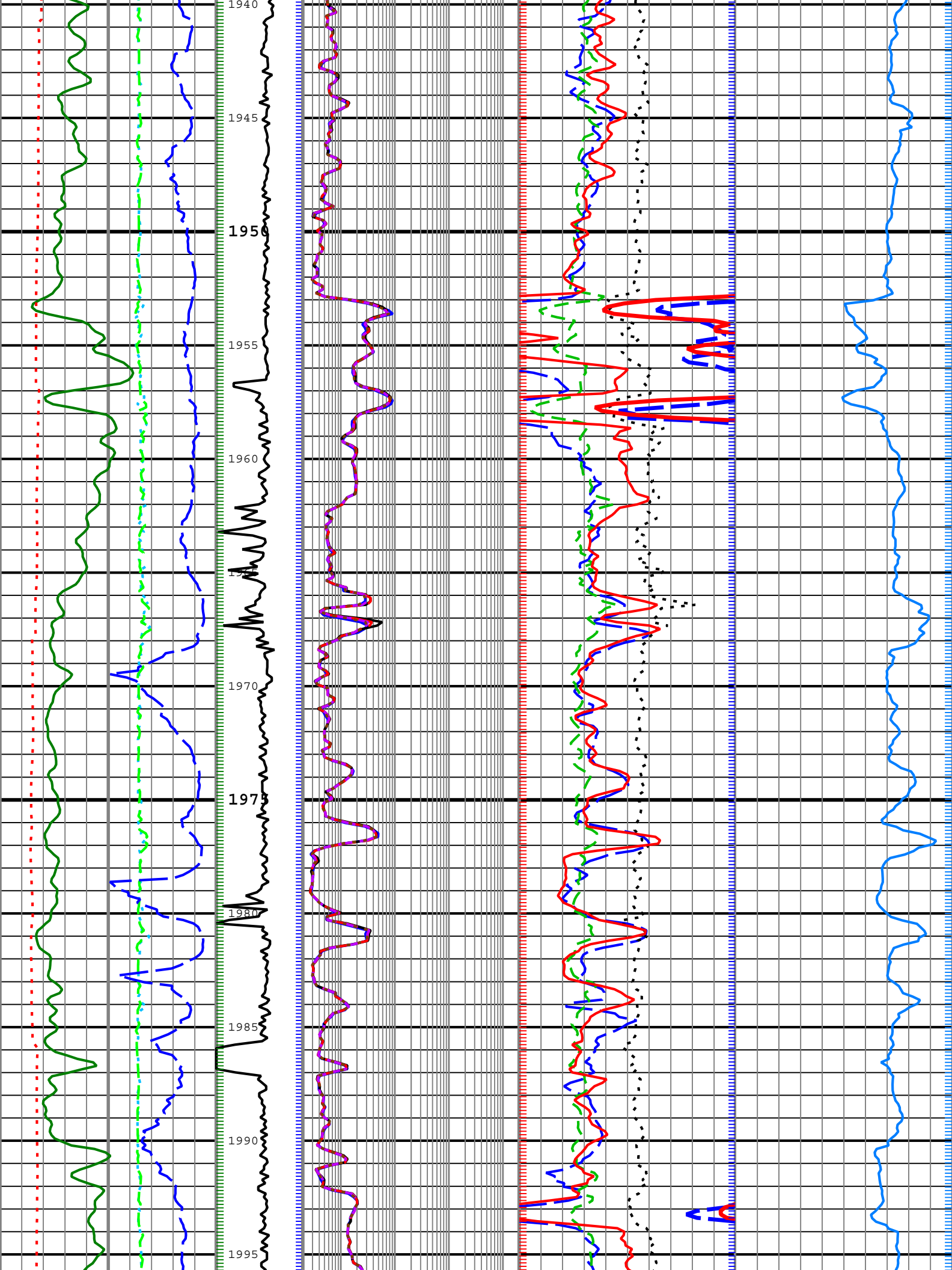


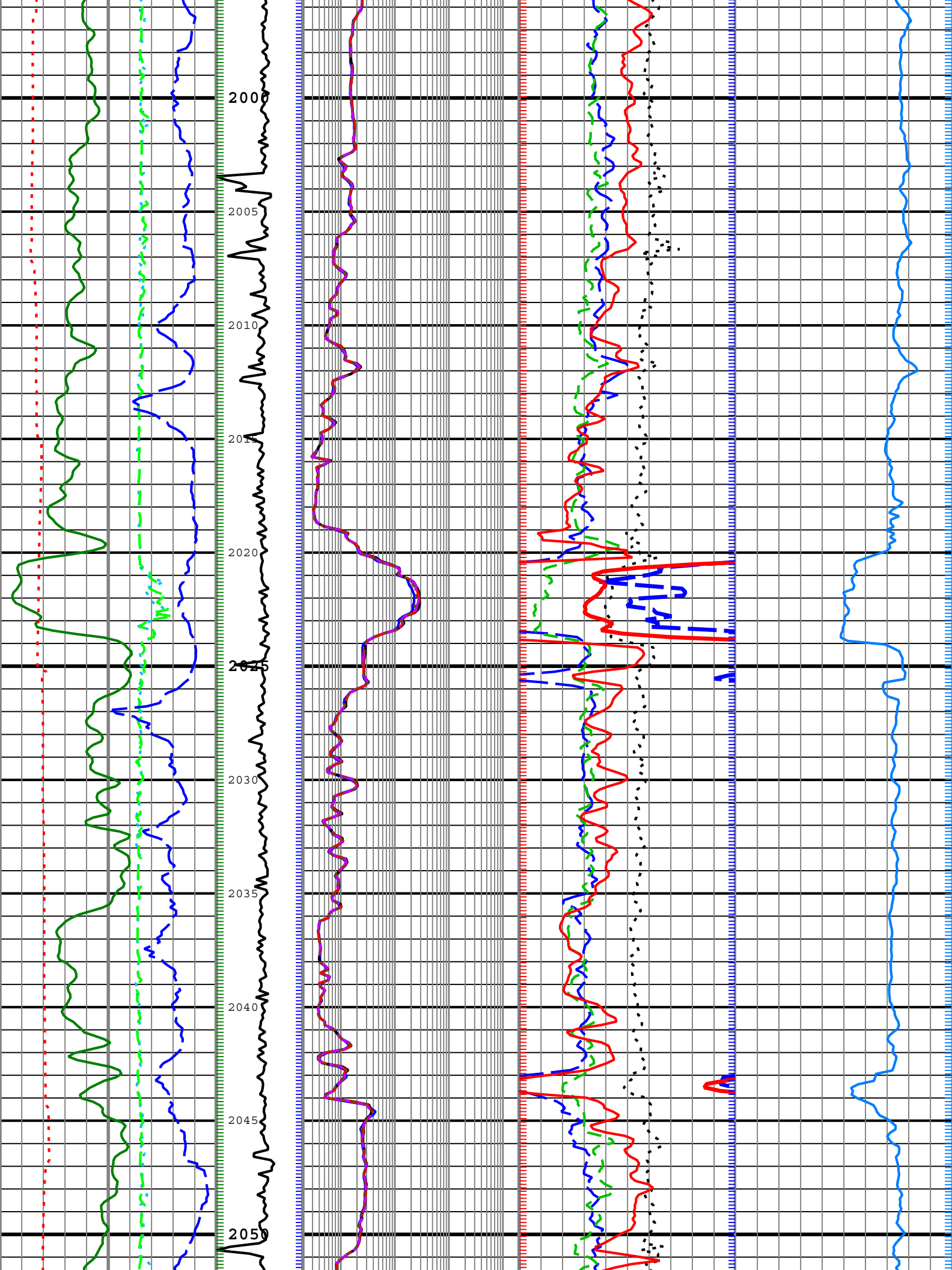


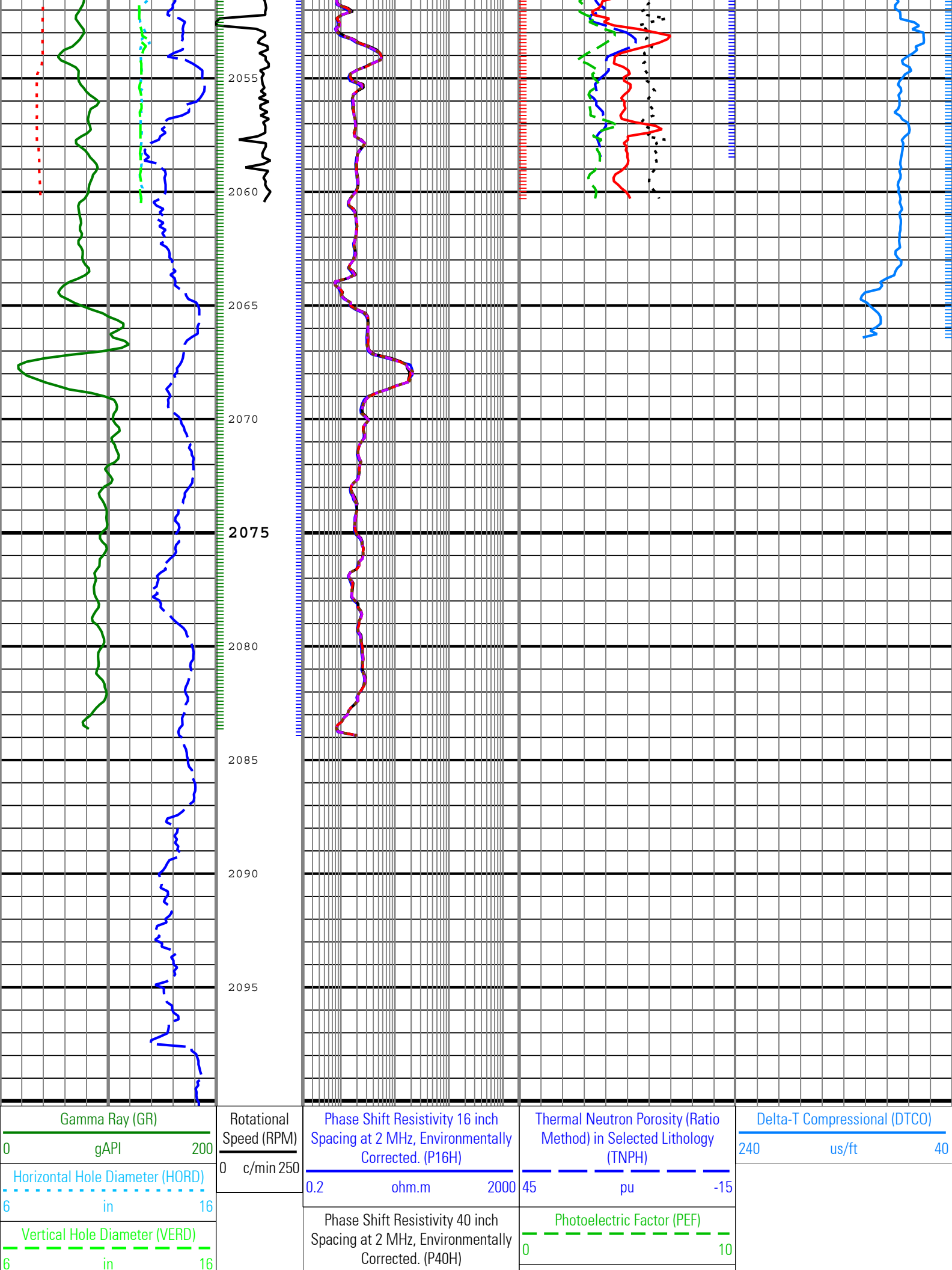












| | | |
|--|-----|----|
| Density Time After Bit (TAB_DEN) | | |
| 0 | h | 10 |
| Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) | | |
| 200 | m/h | 0 |

| | | |
|---|-------|------|
| 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) | | |
| 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) | | |
| 0.2 | ohm.m | 2000 |
| Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) | | |
| 0.2 | ohm.m | 2000 |

| | | |
|--------------------------------|-------|------|
| Bulk Density Correction (DRHO) | | |
| -0.25 | g/cm3 | 0.25 |
| Bulk Density (RHOB) | | |
| 1.95 | g/cm3 | 2.95 |

TNPH - Thermal Neutron Porosity (Ratio Method) in Selected Lithology

GR - Gamma Ray

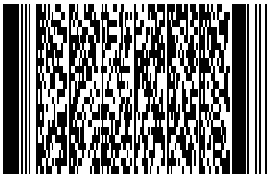
P16H - Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected.

DTCO - Delta-T Compressional

RHOB - Bulk Density

Description: ARC Dual Frequency Resistivity RT Format: Log (Quad Combo RM VISION Service) Index Scale: 1:200 Index Unit: m Index Type: Measured Depth
Creation Date: 17-Sep-2009 10:37:35

| | |
|----------|---------------------|
| Company: | Beach Petroleum Ltd |
| Well: | Spikey Beach-1 |
| Field: | Exploration |
| County: | n/a |
| State: | Tasmania |
| Country: | Australia |



Schlumberger

VISION Service
1:200 Measured Depth
Recorded Mode Log