

| | | | | | | | | | | | |
|------------------|---|----------|---------------|------|----|-----|-----|-------|------------|-------|------|
| 2017-08-23 13:22 | 2 | 1759.06 | Oil Based Mud | 9.8 | 69 | N/A | 8.0 | 68/32 | Active Pit | 31853 | 0.00 |
| 2017-08-24 09:07 | 2 | 6431.88 | Oil Based Mud | 9.5 | 68 | N/A | 8.0 | 68/32 | Active Pit | 30888 | 0.00 |
| 2017-08-25 15:30 | 2 | 12724.30 | Oil Based Mud | 9.8 | 67 | N/A | 8.0 | 68/32 | Active Pit | 31853 | 0.00 |
| 2017-08-26 11:00 | 2 | 17131.63 | Oil Based Mud | 10.1 | 56 | N/A | 8.5 | 68/32 | Active Pit | 30405 | 0.00 |

Equipment and Service Data

| Run No. | Tool | Serial Number | Measurement | Sensor Offset (ft) | Bit Offset (ft) | Max O.D. (in) | Min I.D. (in) |
|---------|----------|---------------|----------------------|--------------------|-----------------|---------------|---------------|
| 1 | NaviTrak | 13225696 | Directional (mag) | 15.02 | 58.40 | 8.000 | 0.000 |
| 1 | NaviTrak | 13225696 | VSS | 15.02 | 58.40 | 8.000 | 0.000 |
| 2 | ATC_SU | 14262244 | Near Bit VSS | 5.93 | 6.69 | 6.750 | 4.330 |
| 2 | ATC_SU | 14262244 | Near Bit Inclination | 5.93 | 6.69 | 6.750 | 4.330 |
| 2 | ATC_MWD | 12603327 | Gamma (single) | 2.73 | 12.86 | 6.750 | 3.250 |
| 2 | ATC_MWD | 12603327 | Directional (mag) | 12.26 | 22.39 | 6.750 | 3.250 |

Service and Tool Mnemonics

| Mnemonic | Name | Description |
|----------|----------|---|
| NTK | NaviTrak | Probe Based Directional Module, NaviTrak Platform |
| ATC_SU | ATC_SU | Auto Trak Curve Steering Unit |
| ATC_MWD | ATC_MWD | Auto Trak Curve MWD |
| ATC_LCPM | ATC_LCPM | Auto Trak Curve LCPM |

Comments

| | |
|---|---|
| 1 | Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified. |
| 2 | Baker Hughes LWD Run 2 utilized 6 3/4 inch Navigamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1759 to 17175 feet MD (1743 to 7071 feet TVD). |

Remarks

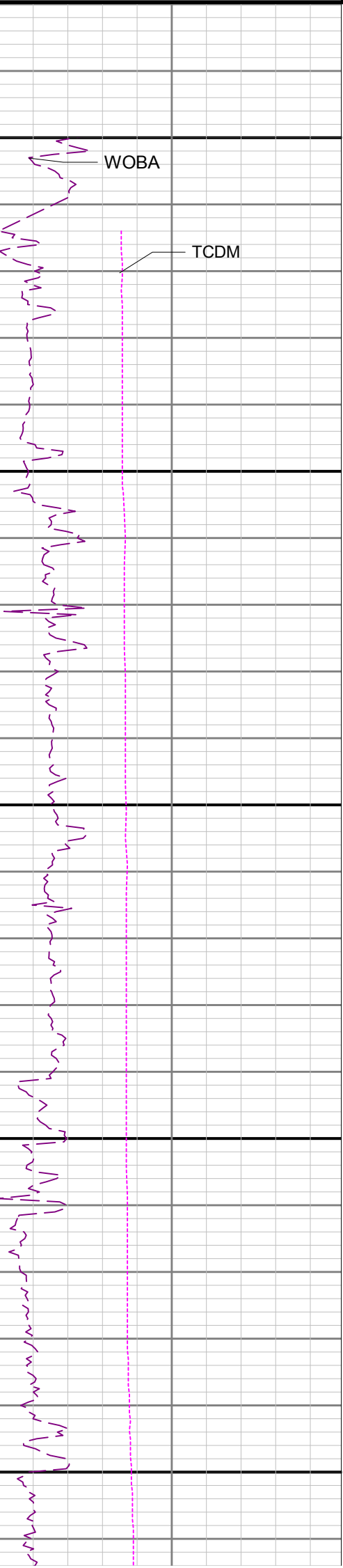
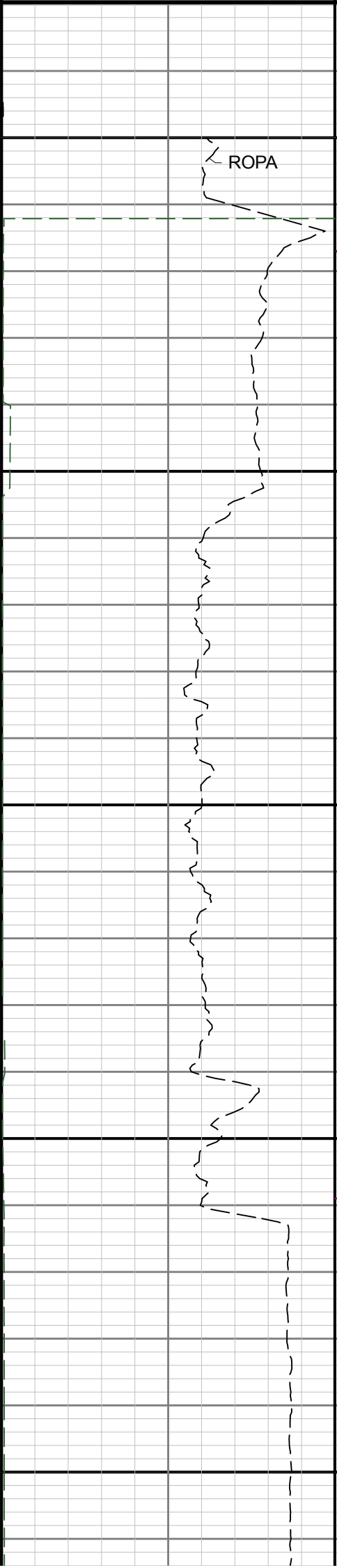
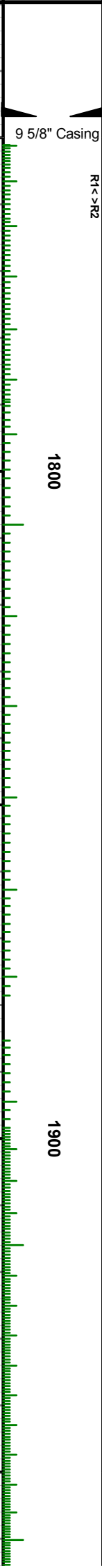
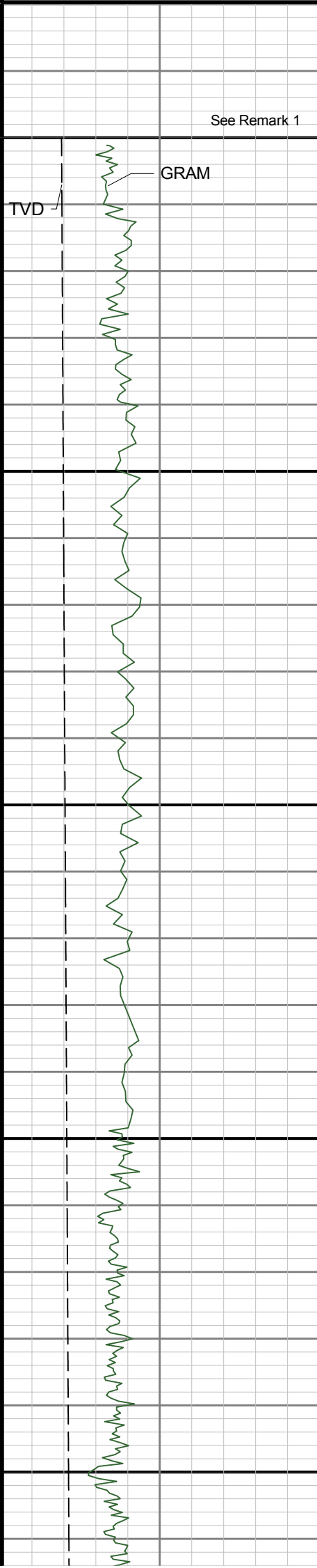
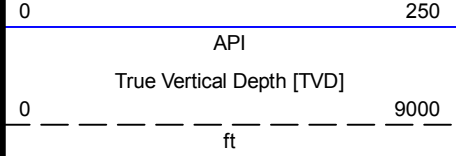
| Number | Measured Depth (ft) | Hole Section (in) | Run No. | Remark |
|--------|---------------------|-------------------|---------|---|
| 1 | 1750.00 | 8.500 | 2 | Baker Hughes LWD began logging services at 1747 feet MD (1731 feet TVD) per client request. |
| 2 | 17165.00 | 8.500 | 2 | The interval from 17162 to 17175 feet MD (7071 feet TVD) was not logged due to sensor to bit offset at well TD. |

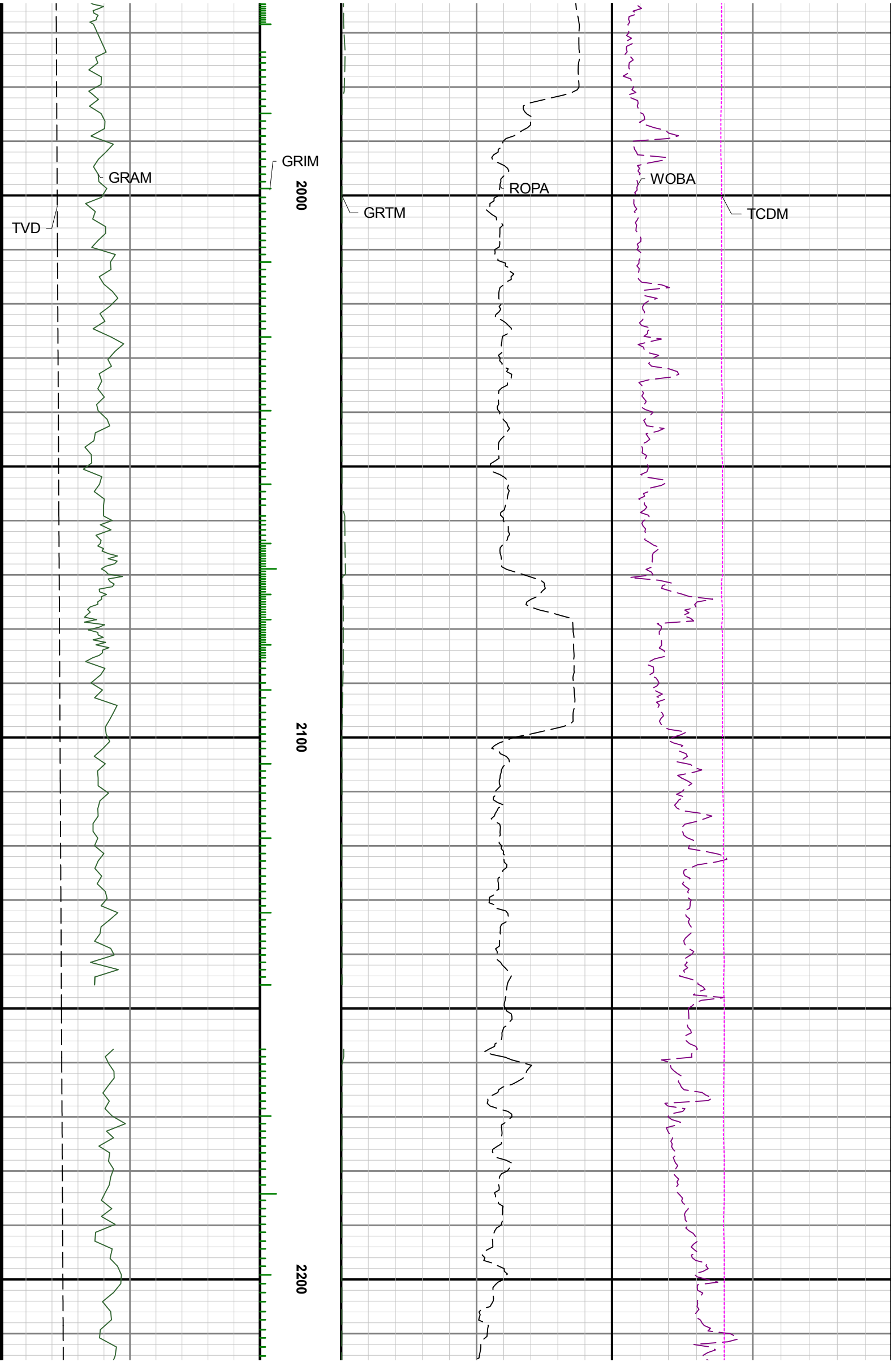
Curve Mnemonics

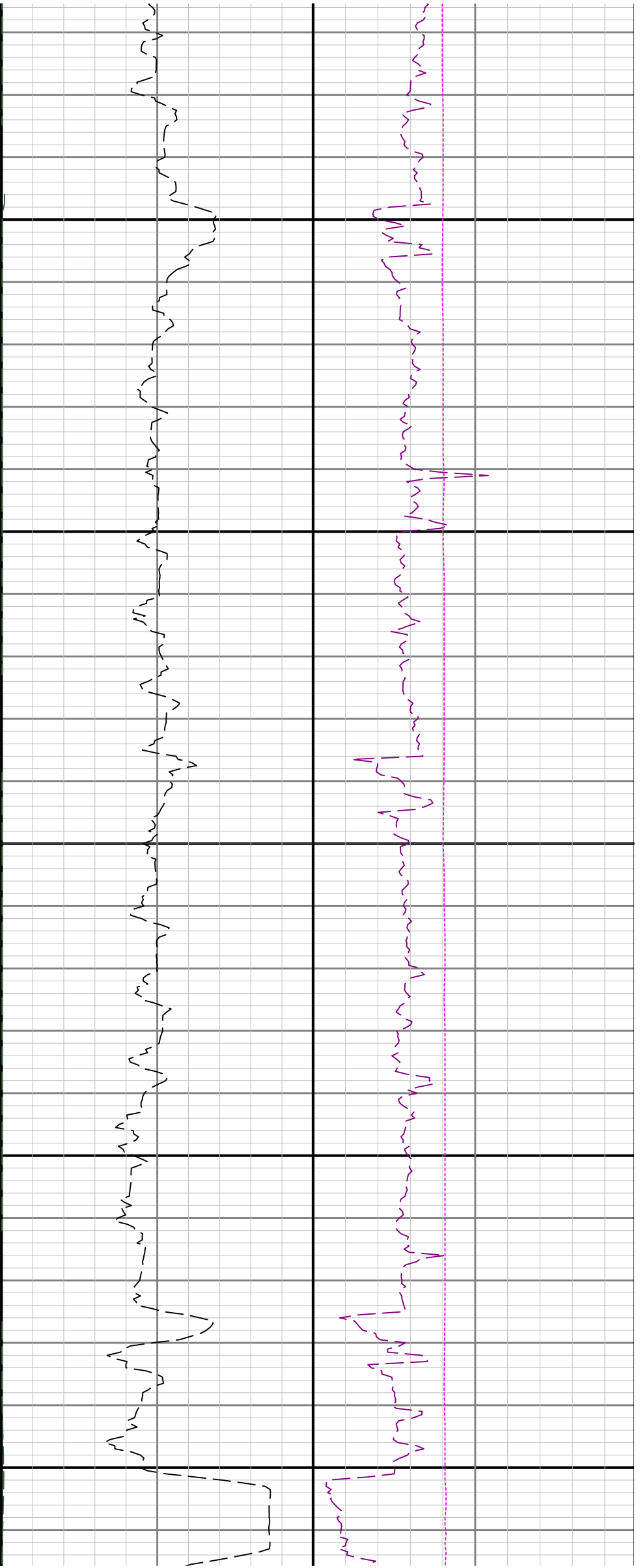
| Presented Curves | Description | Units |
|------------------|---|----------|
| ROPA | Depth Averaged ROP 3 ft Average | ft/h |
| TVD | True Vertical Depth | ft |
| WOBA | Weight On Bit, Average 1 ft Average | klb |
| GRAM | OnTrak - Gamma Ray - Apparent - Memory 0.5 ft Average | API |
| GRIM | OnTrak - Gamma Ray - Data Point Indicator - Memory | unitless |
| GRTM | OnTrak - Gamma Ray - Time Since Drilled - Memory | min |
| GRADM | OnTrak - Gamma Ray - Apparent - Down Quadrant - Memory 0.5 ft Average | API |
| GRAUM | OnTrak - Gamma Ray - Apparent - Up Quadrant - Memory 0.5 ft Average | API |
| TCDM | Downhole Temperature | degF |

| | | | |
|--|----------|--------------------------------|-----------------|
| <div> <div>BAKER HUGHES</div> <div>a GE company</div> </div> | Company | VERDAD OIL & GAS | |
| | Well | BRNAK 01N-64W-10-2H | |
| | Interval | Date From: 2017-08-13 05:23:33 | Top: 1700.00 |
| | Created | Date To: 2017-08-25 12:29:04 | Bottom: 7076.00 |
| | | 2017-08-27 04:38:29 | |

| | | | |
|--|---------------|--|-----------------------------------|
| Gamma Ray Apparent 0.5 ft Average [GRAM] | MD 1:240 feet | Depth Averaged ROP 3 ft Average [ROPA] | Weight On Bit 1 ft Average [WOBA] |
| 0 250 | | 1200 0 | 0 50 |
| API | | ft/h | klb |
| Gamma Ray Apparent UP 0.5 ft Average [GRAUM] | | Time Since Drilled [GRTM] | Downhole Temperature [TCDM] |
| 0 250 | | 0 600 | 0 300 |
| API | | min | degF |
| Gamma Ray Apparent DOWN 0.5 ft Average [GRADM] | | | |

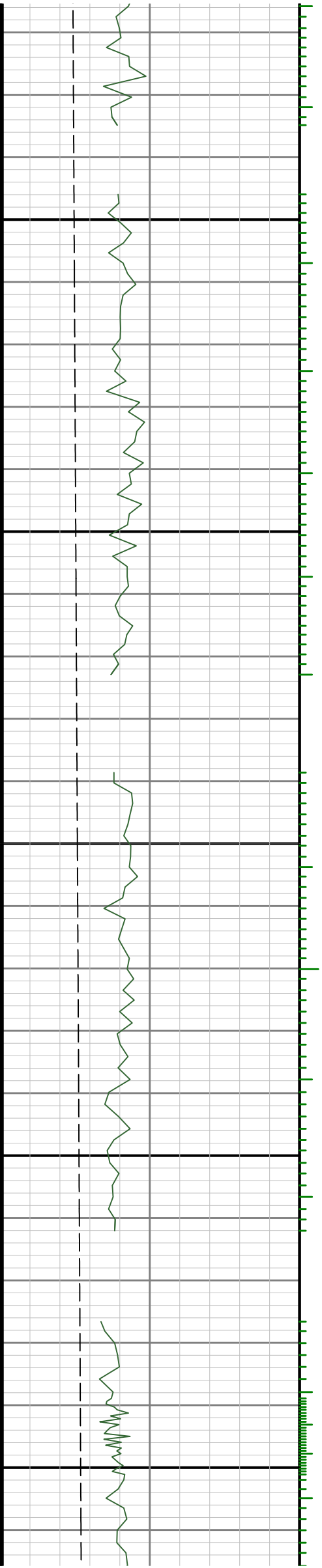


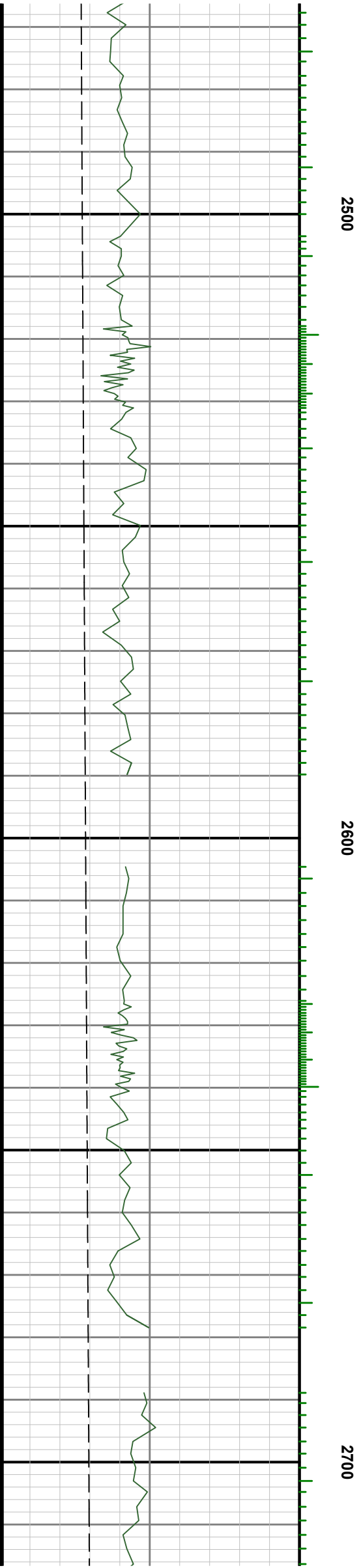
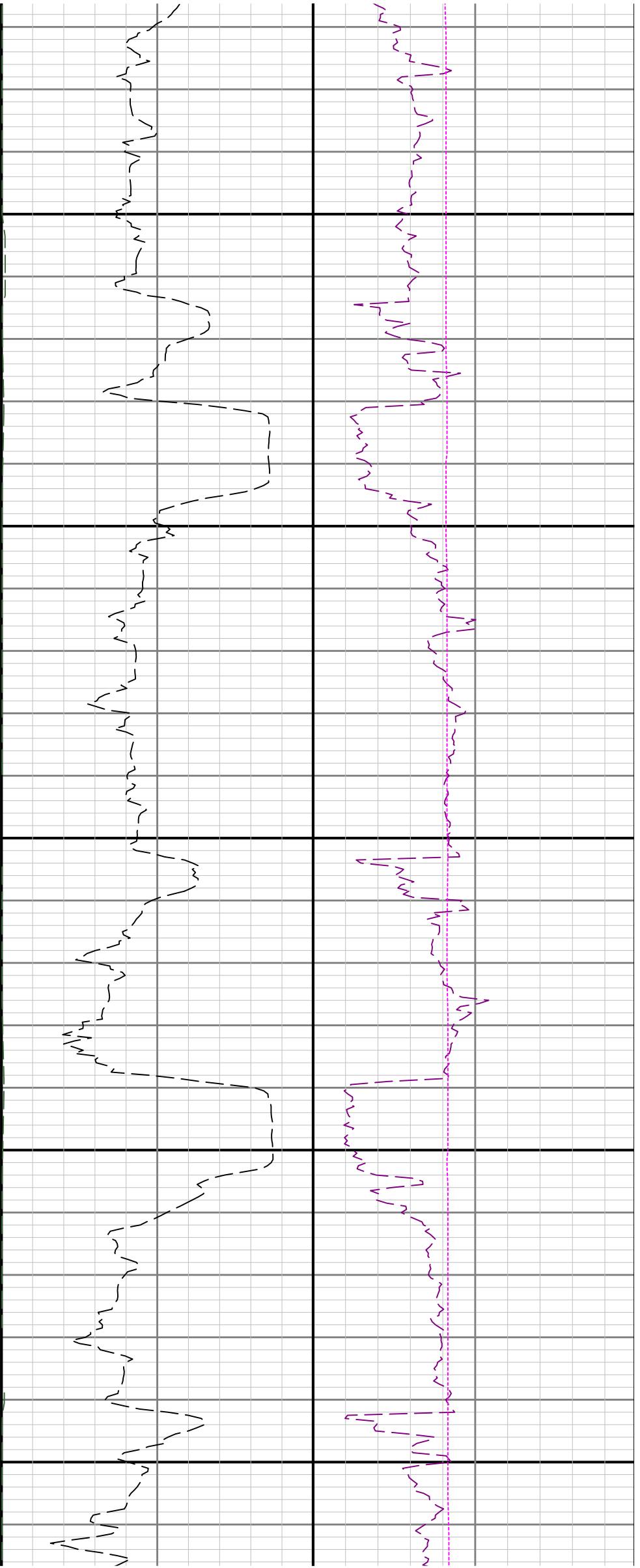


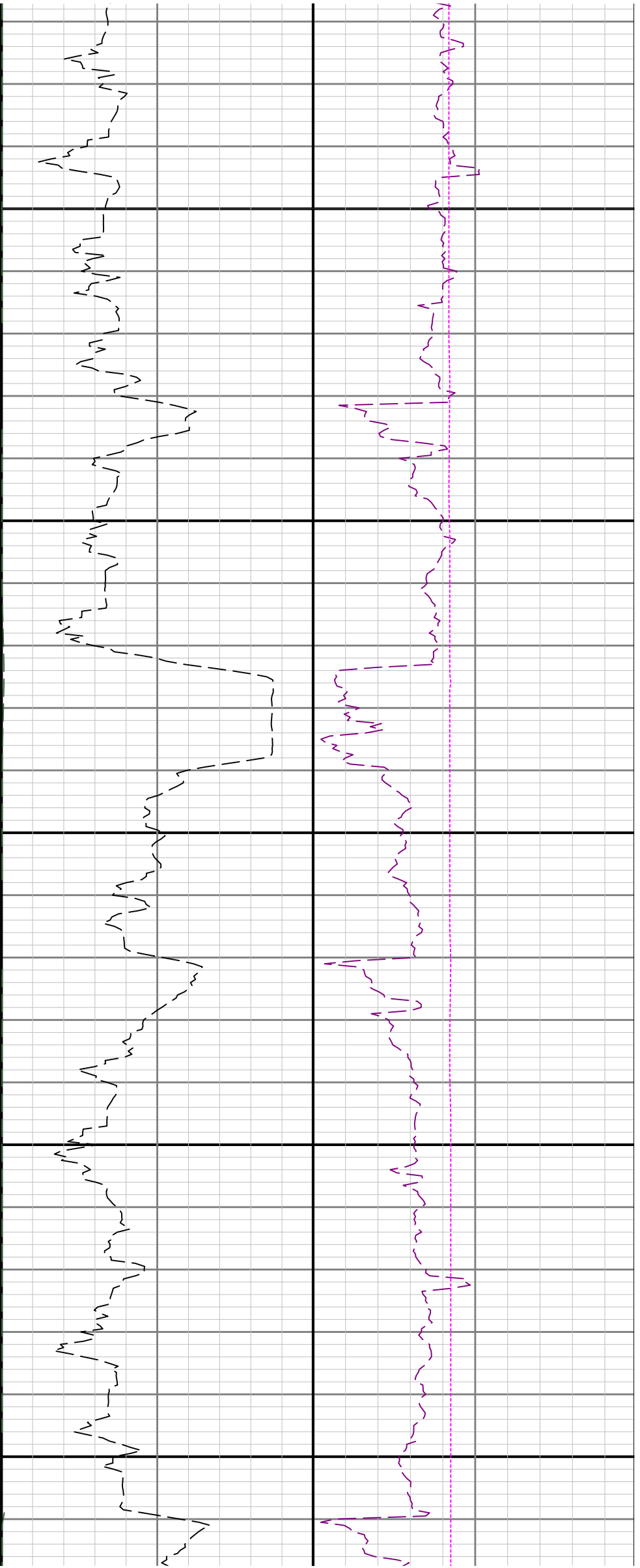


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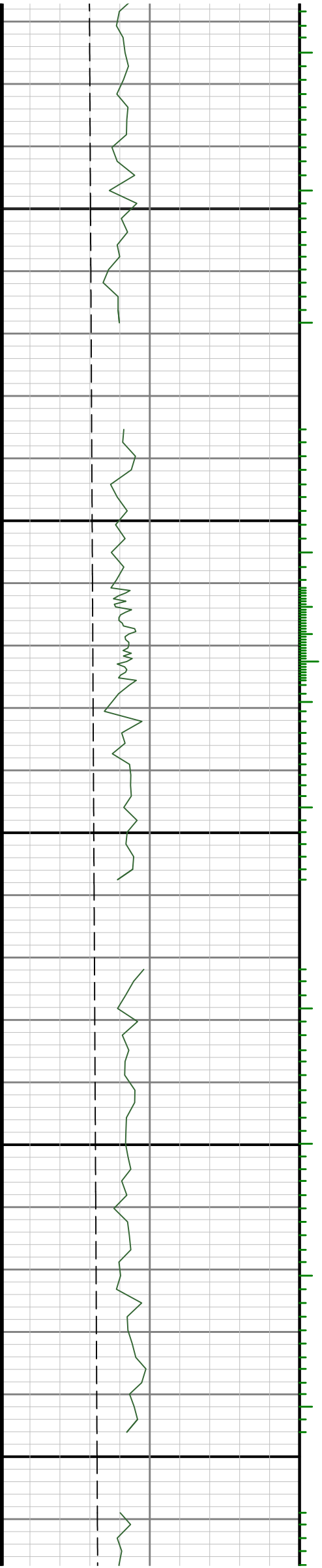


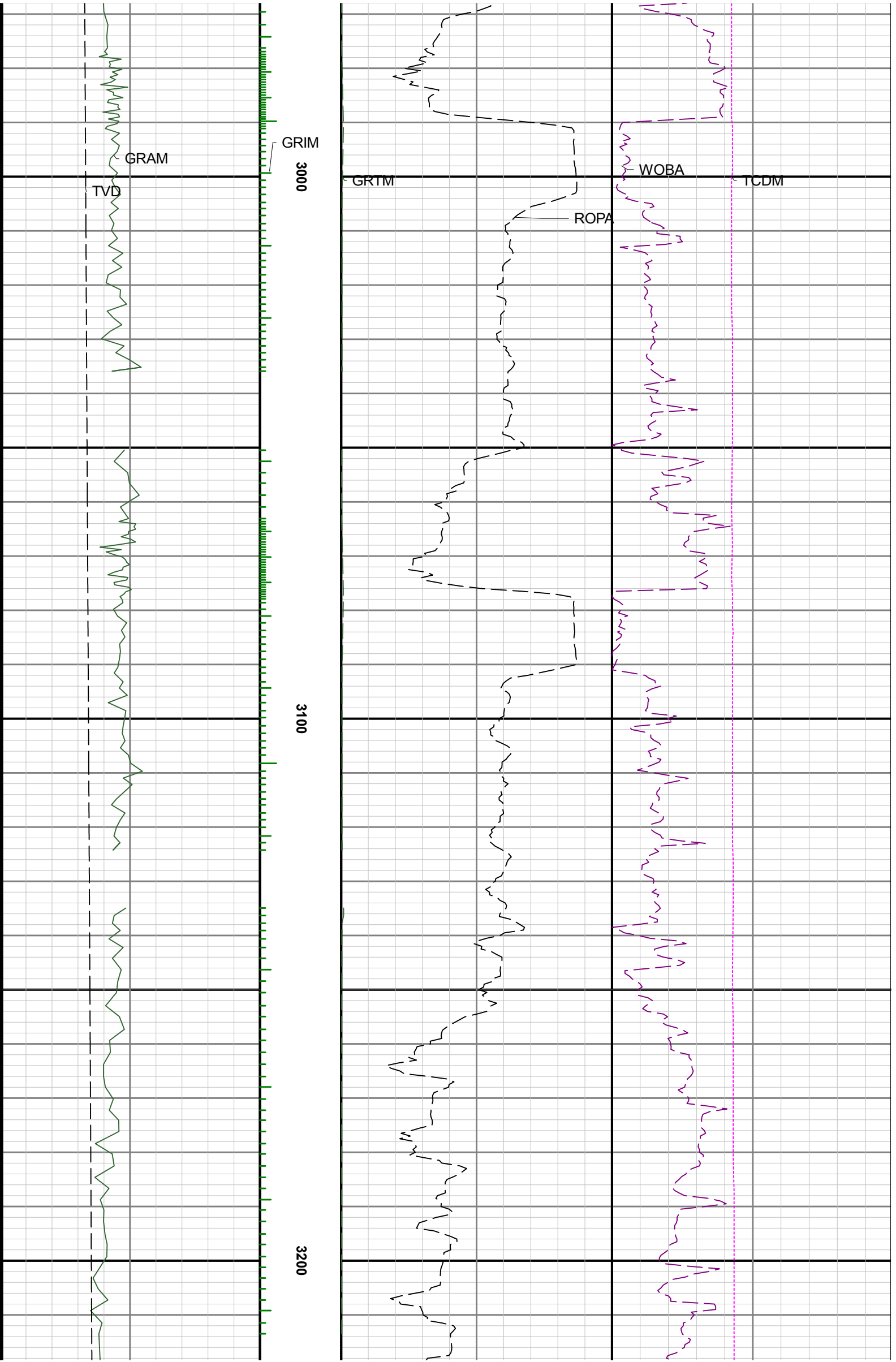


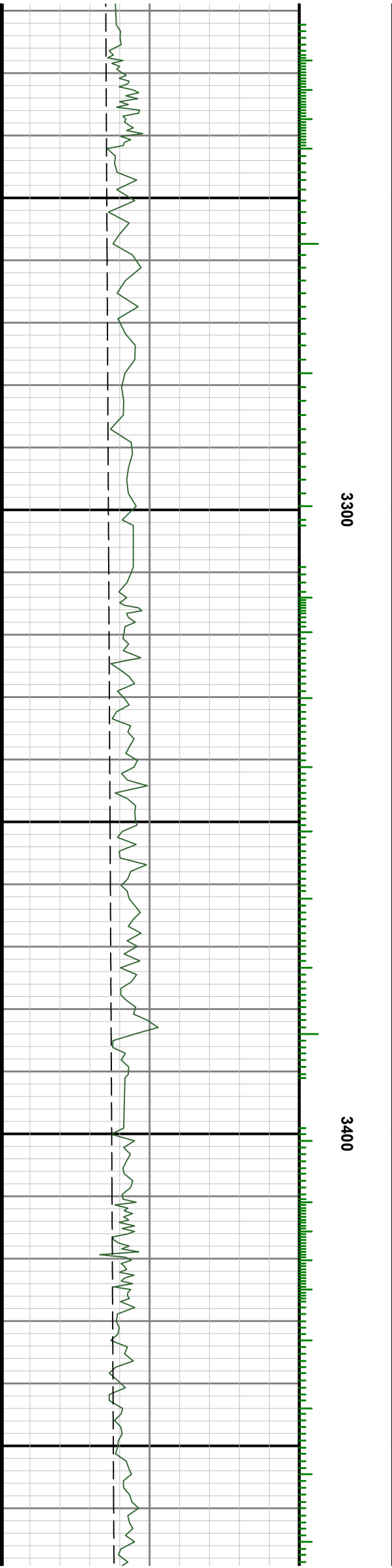


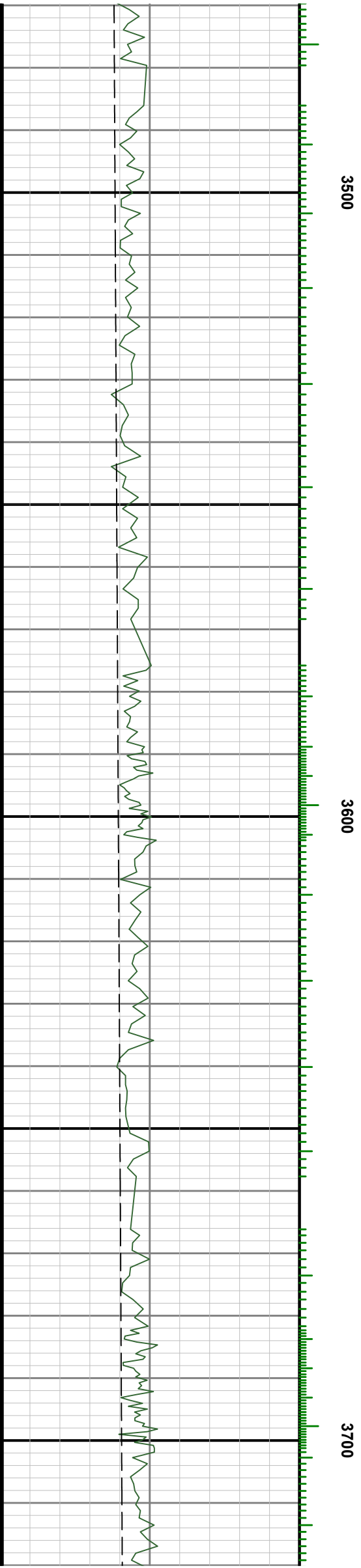
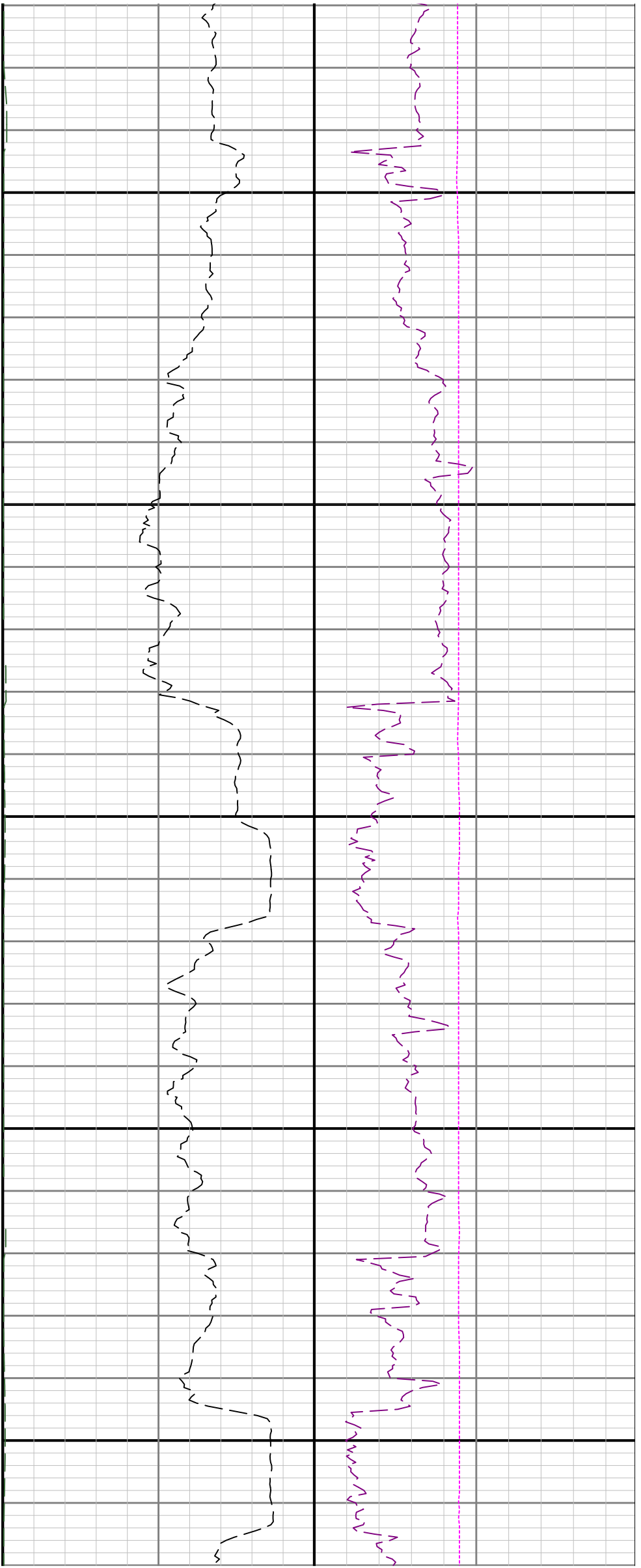
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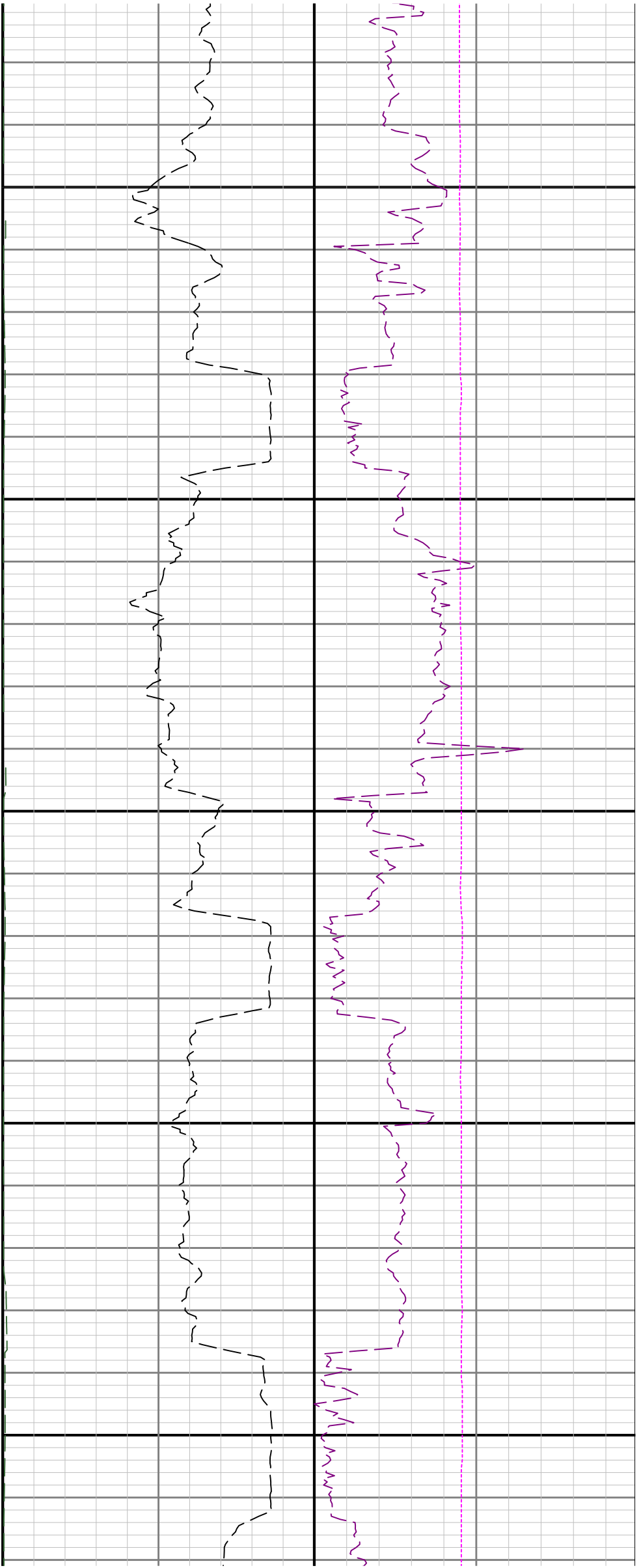
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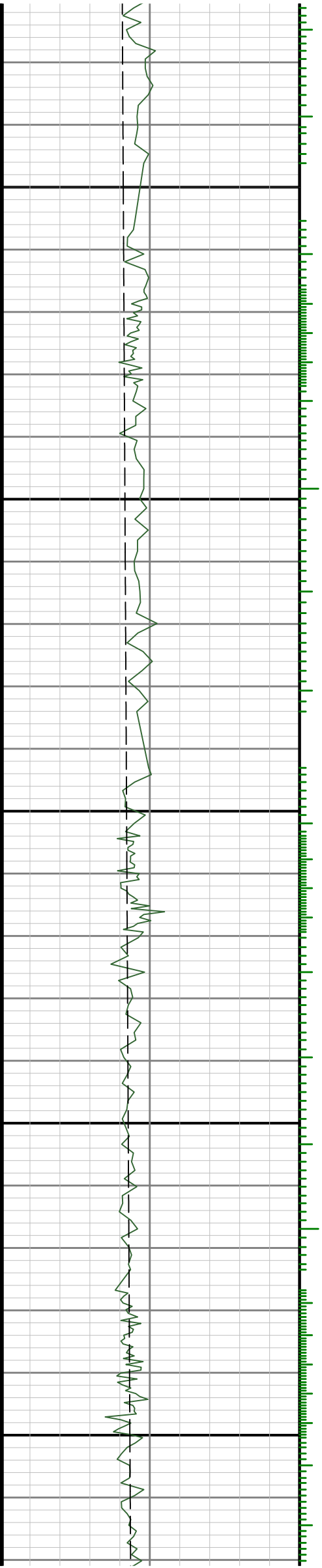


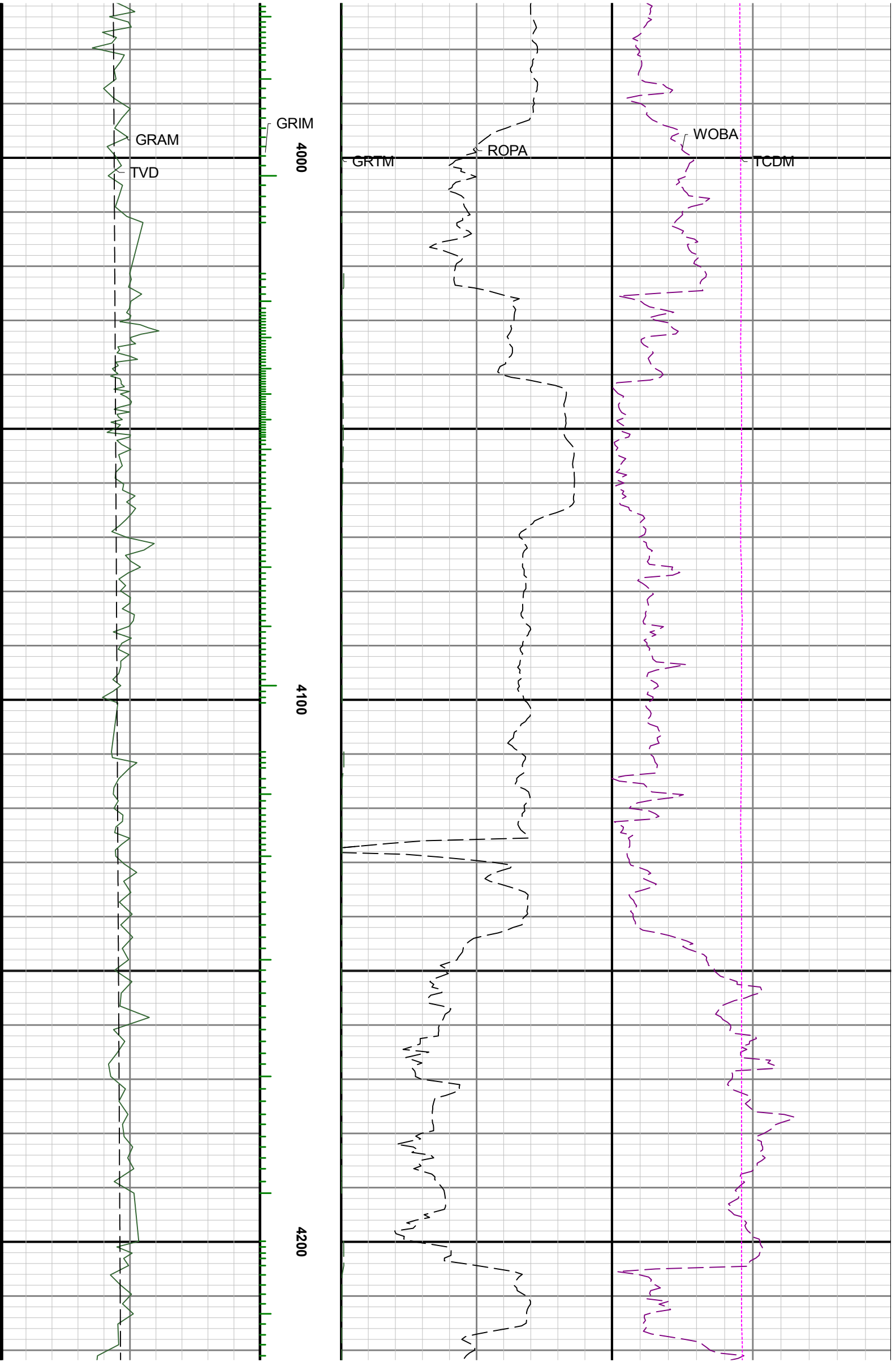


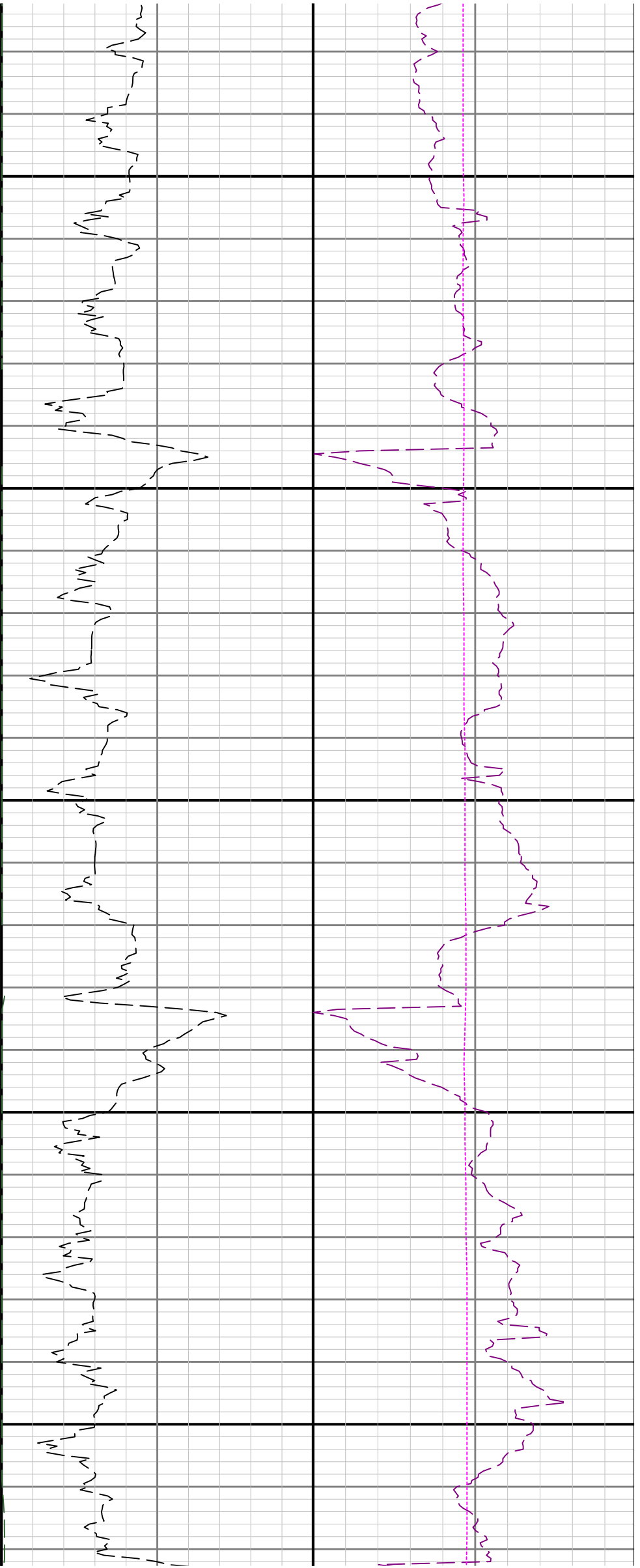


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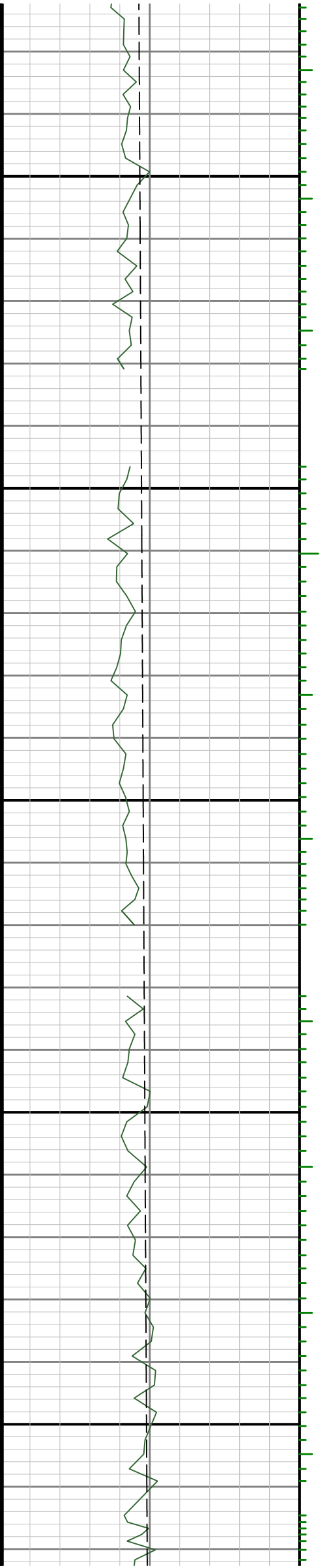


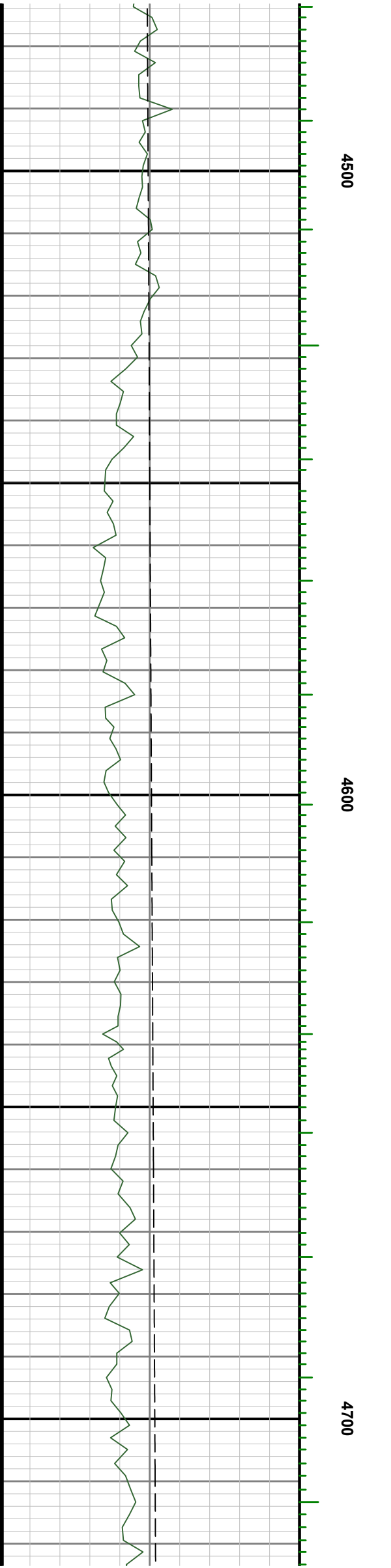
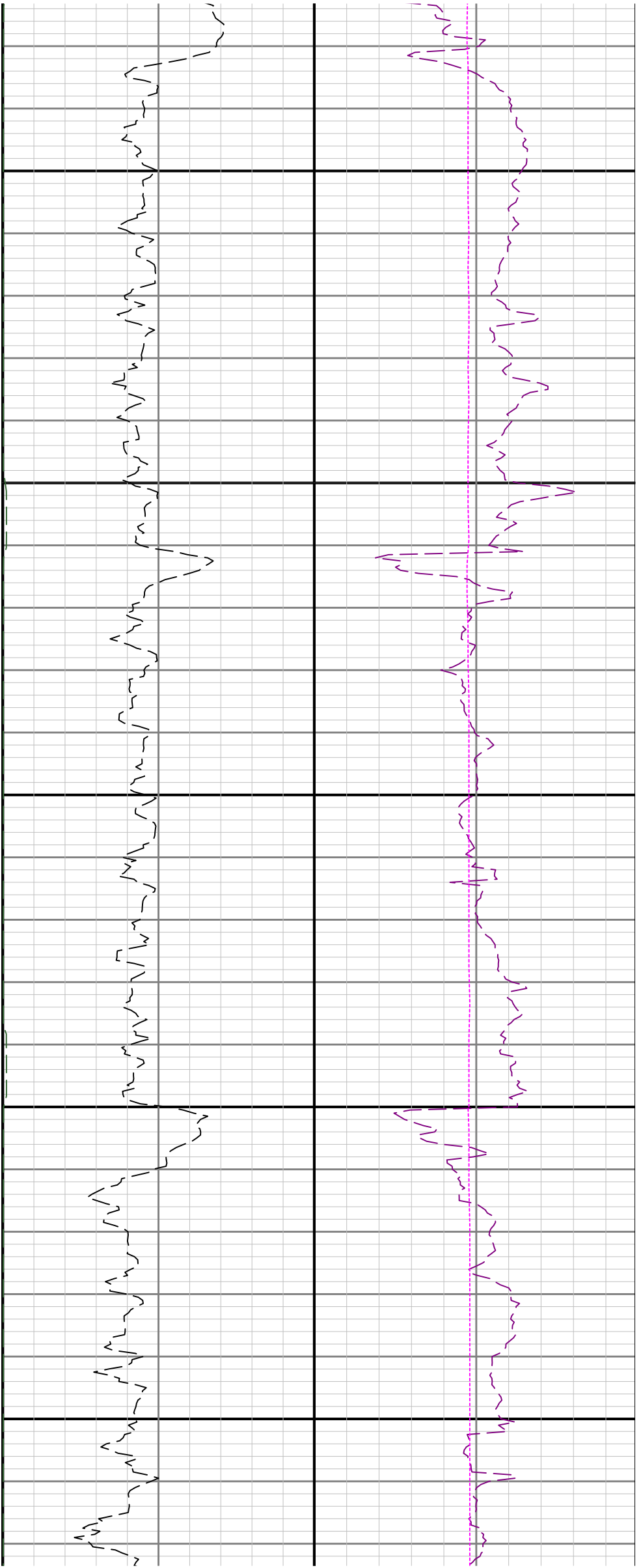


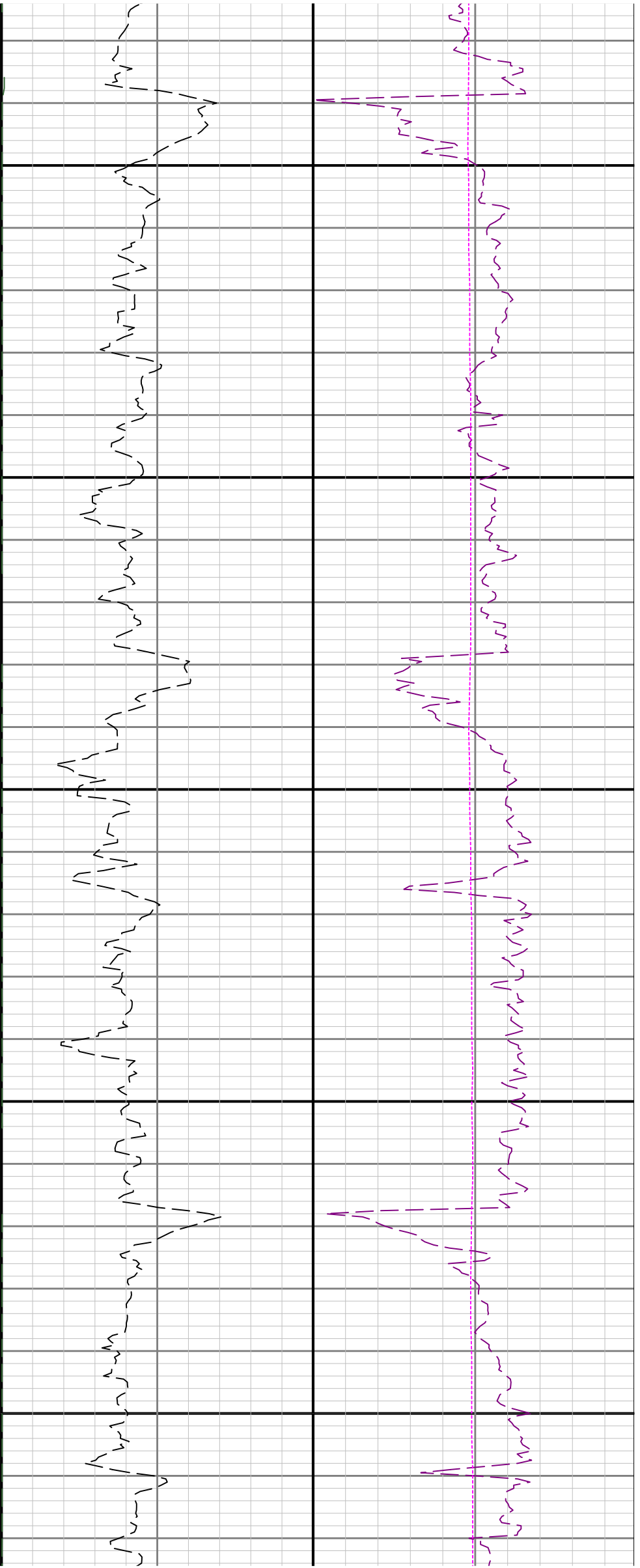


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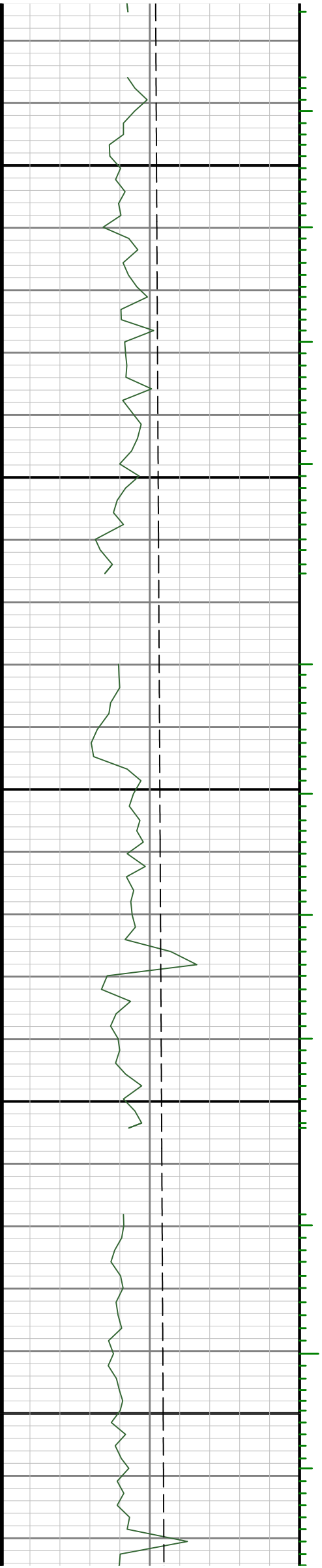


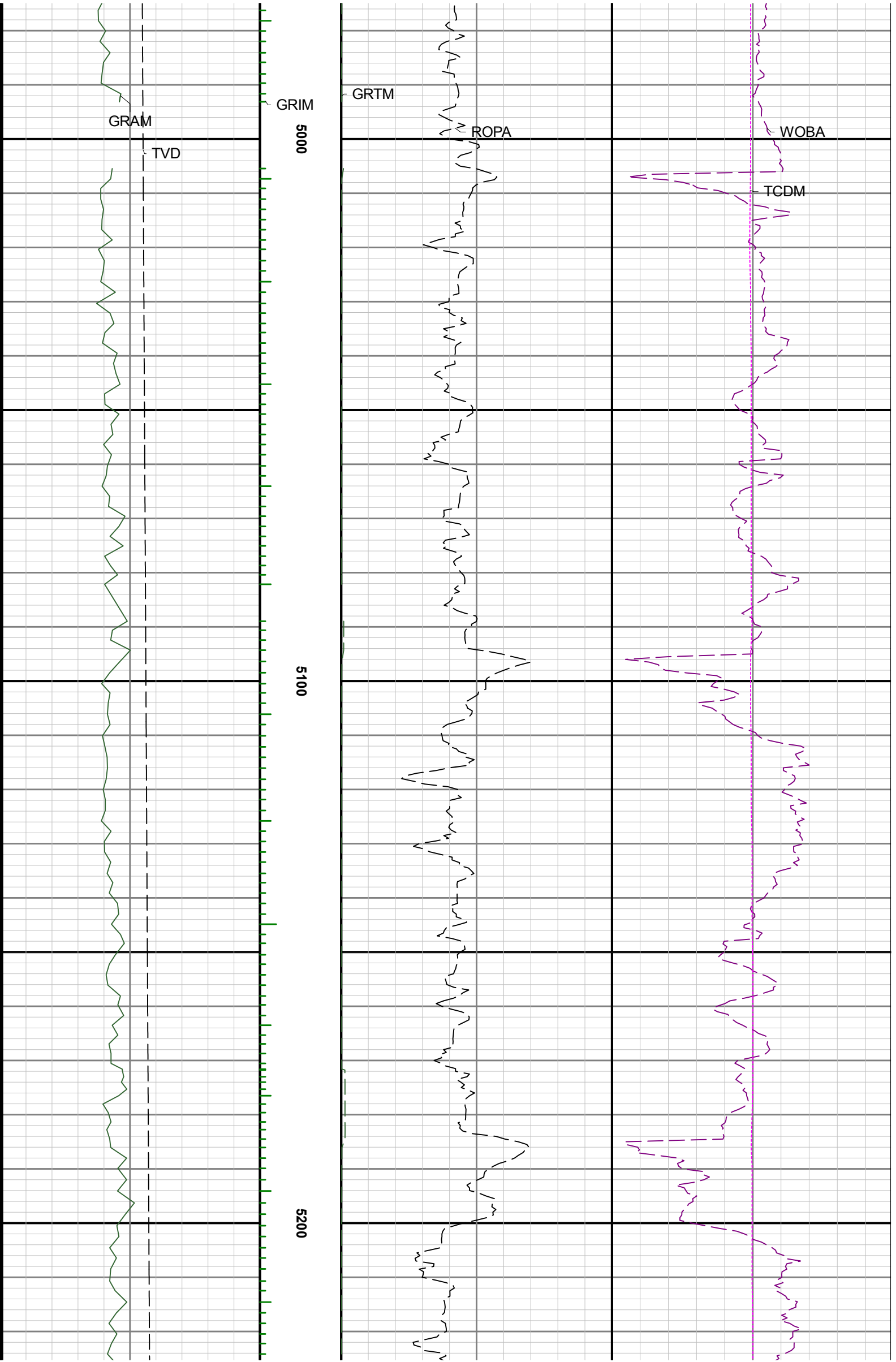


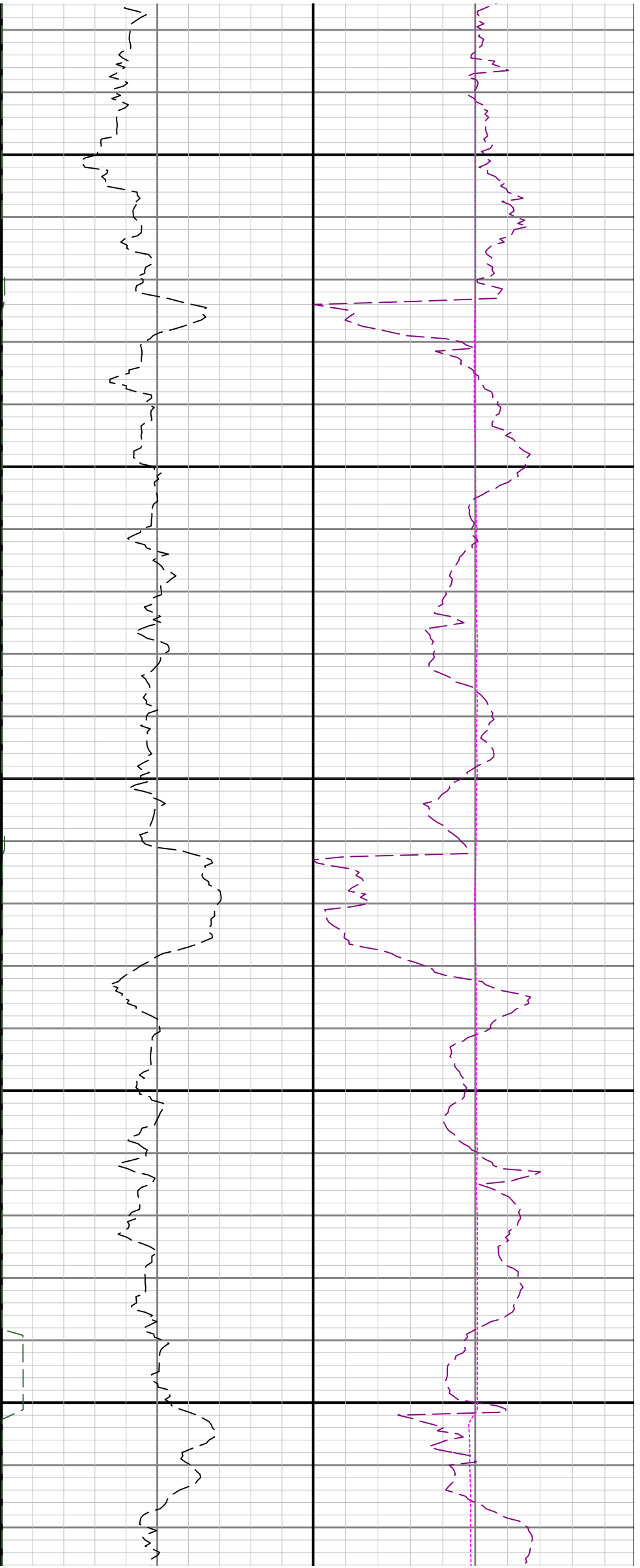


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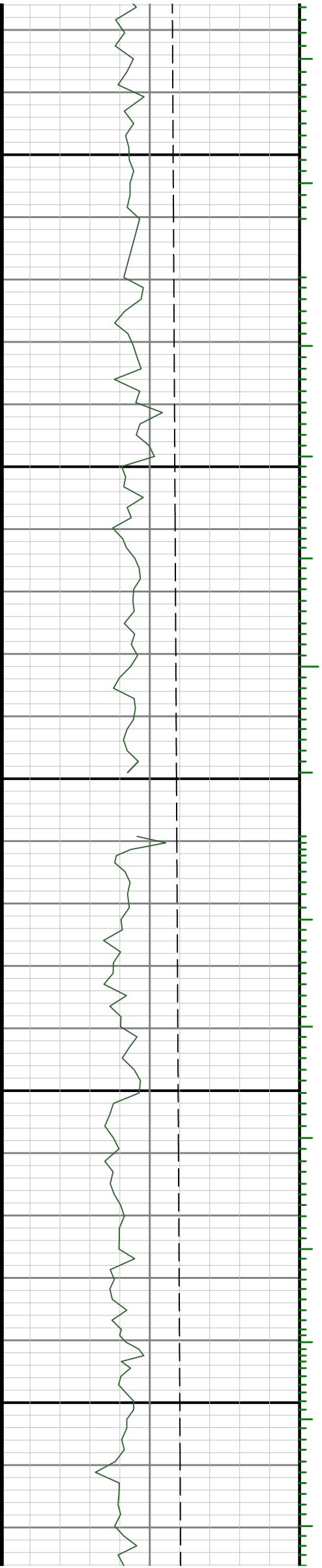


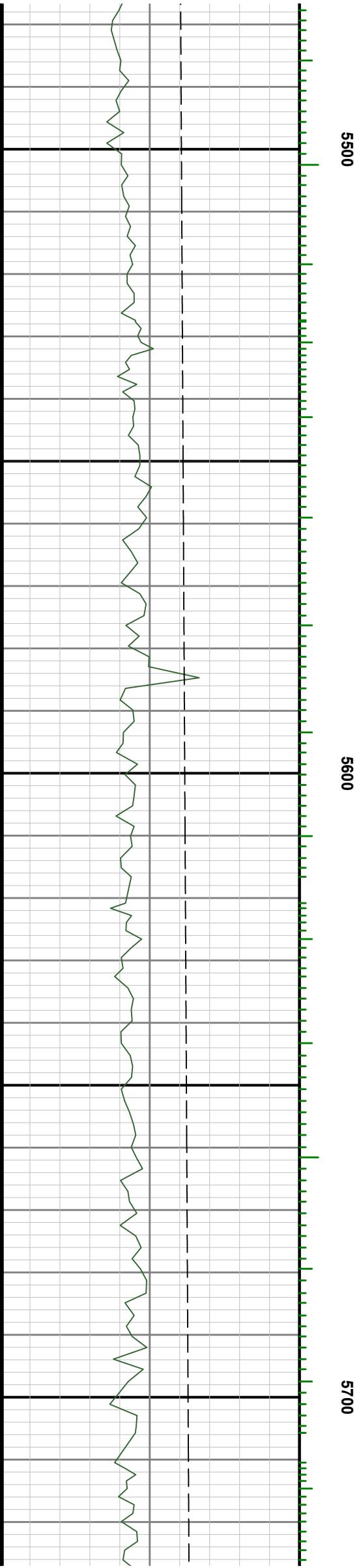
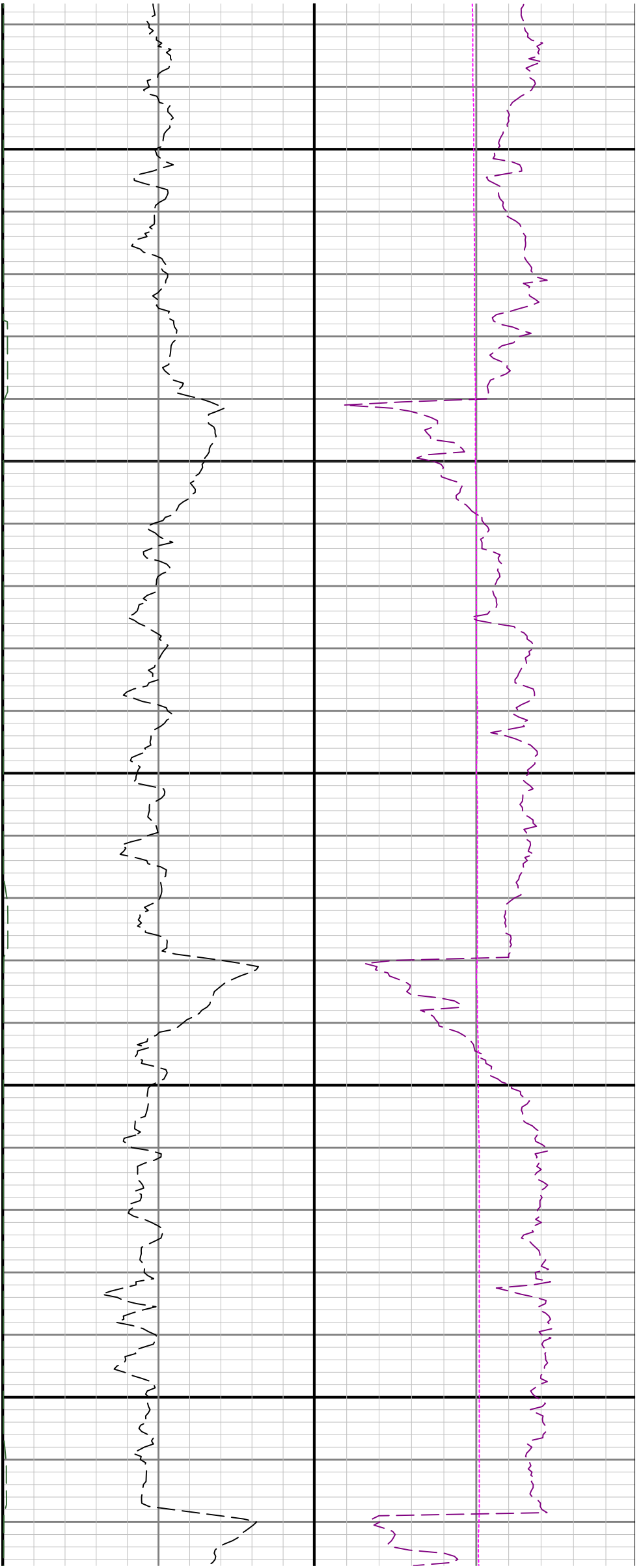


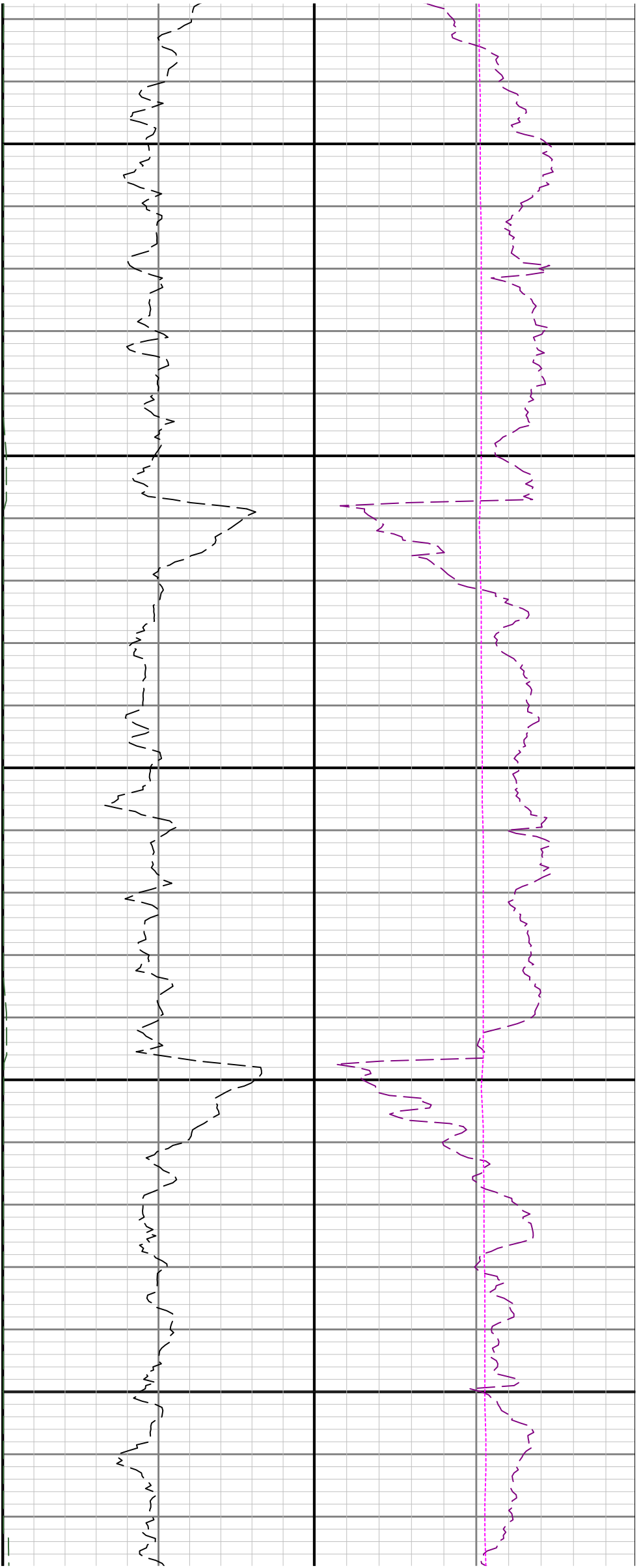


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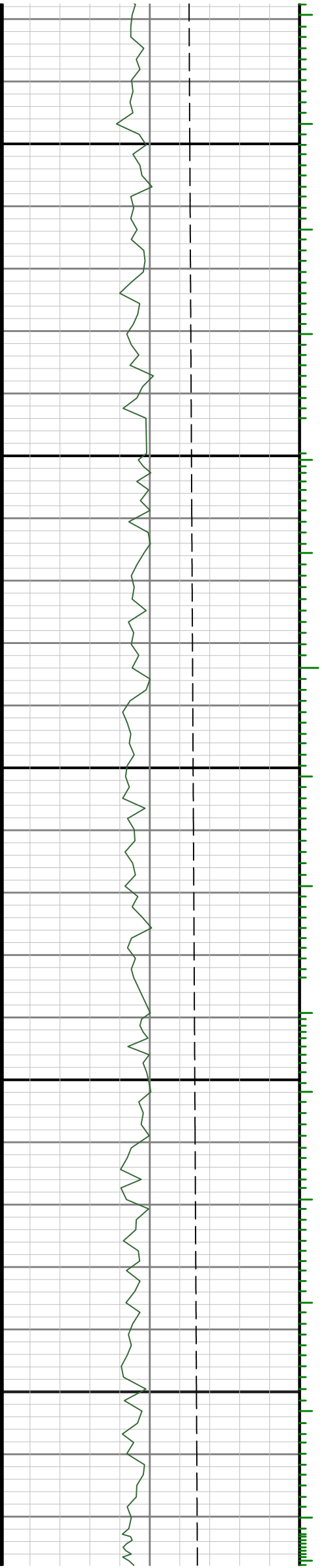


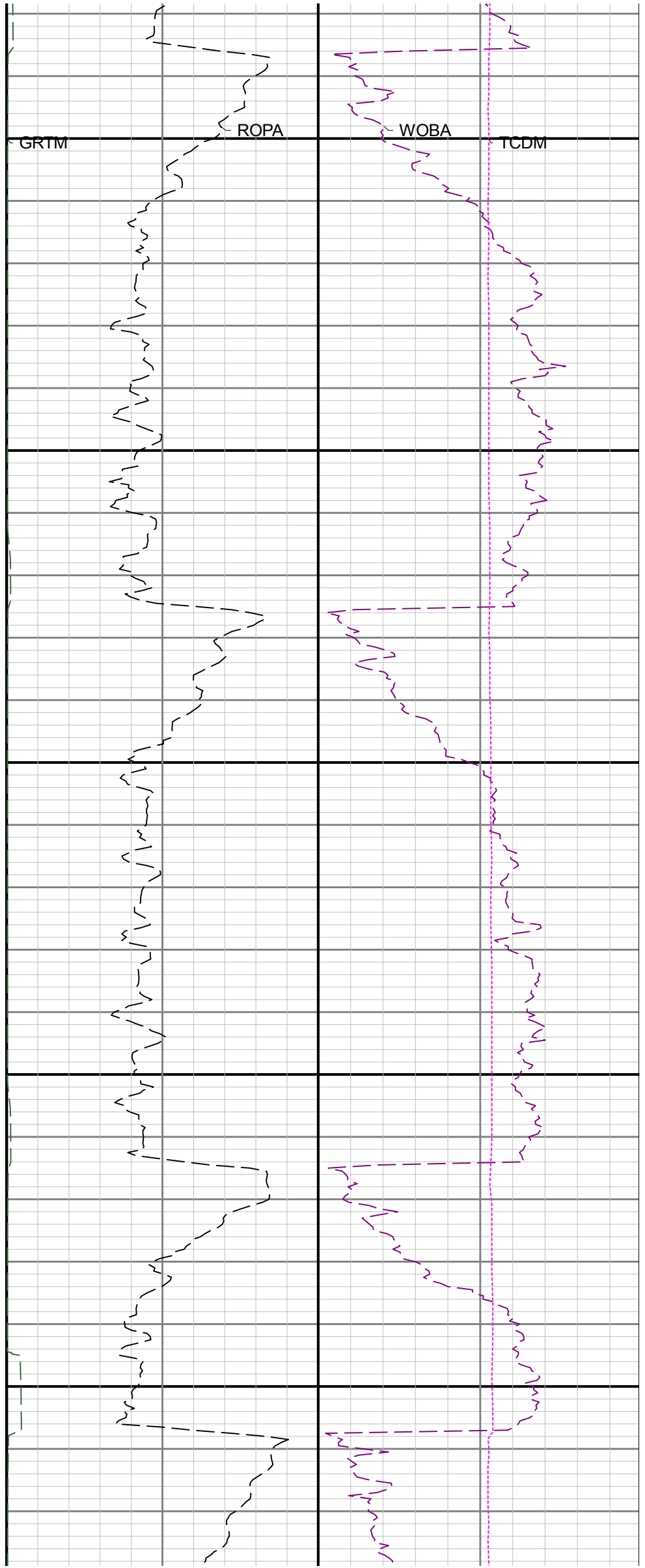
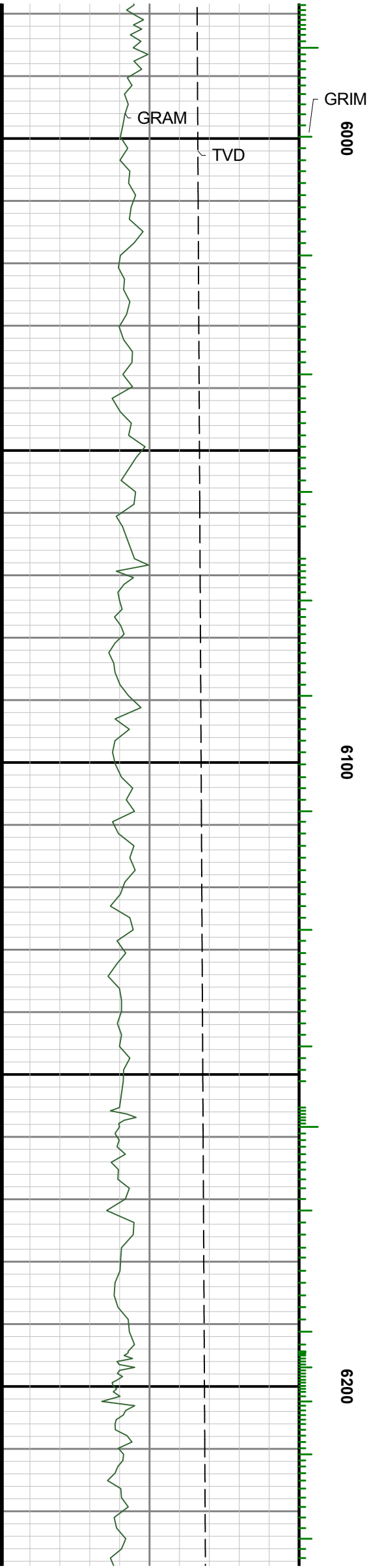


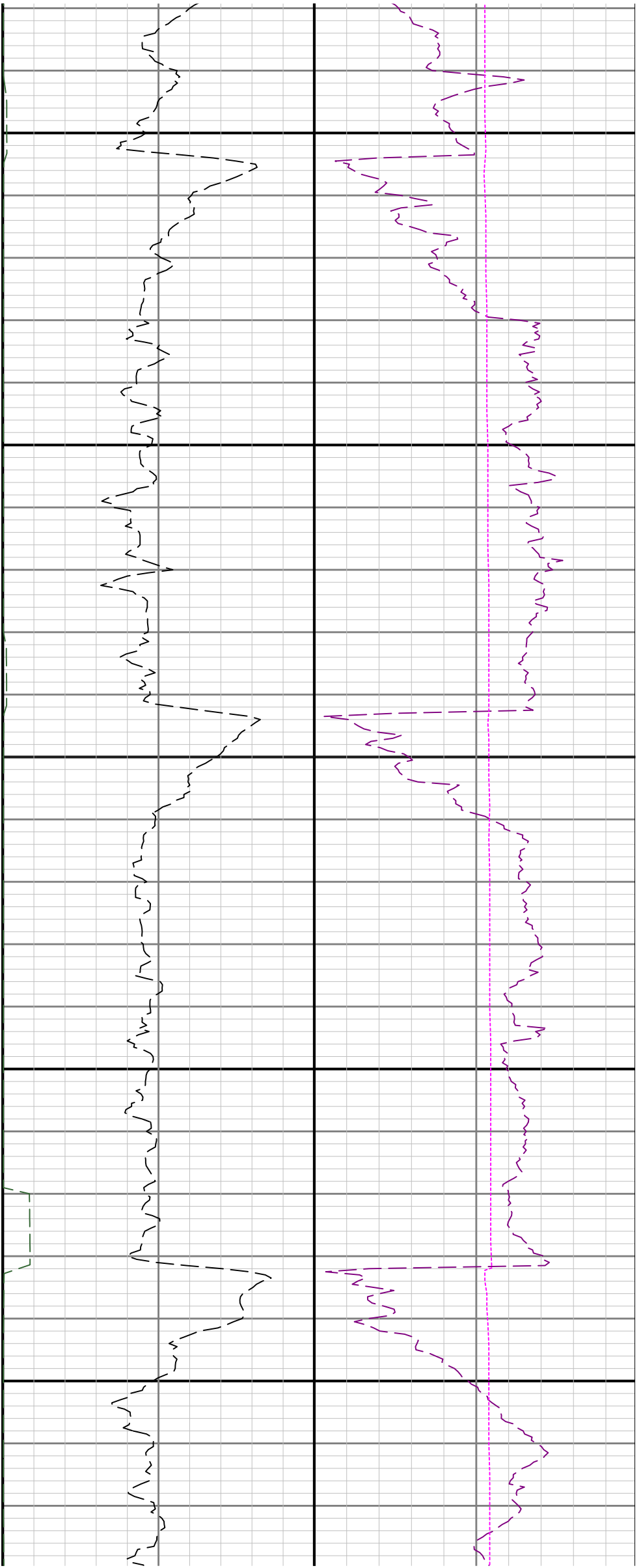


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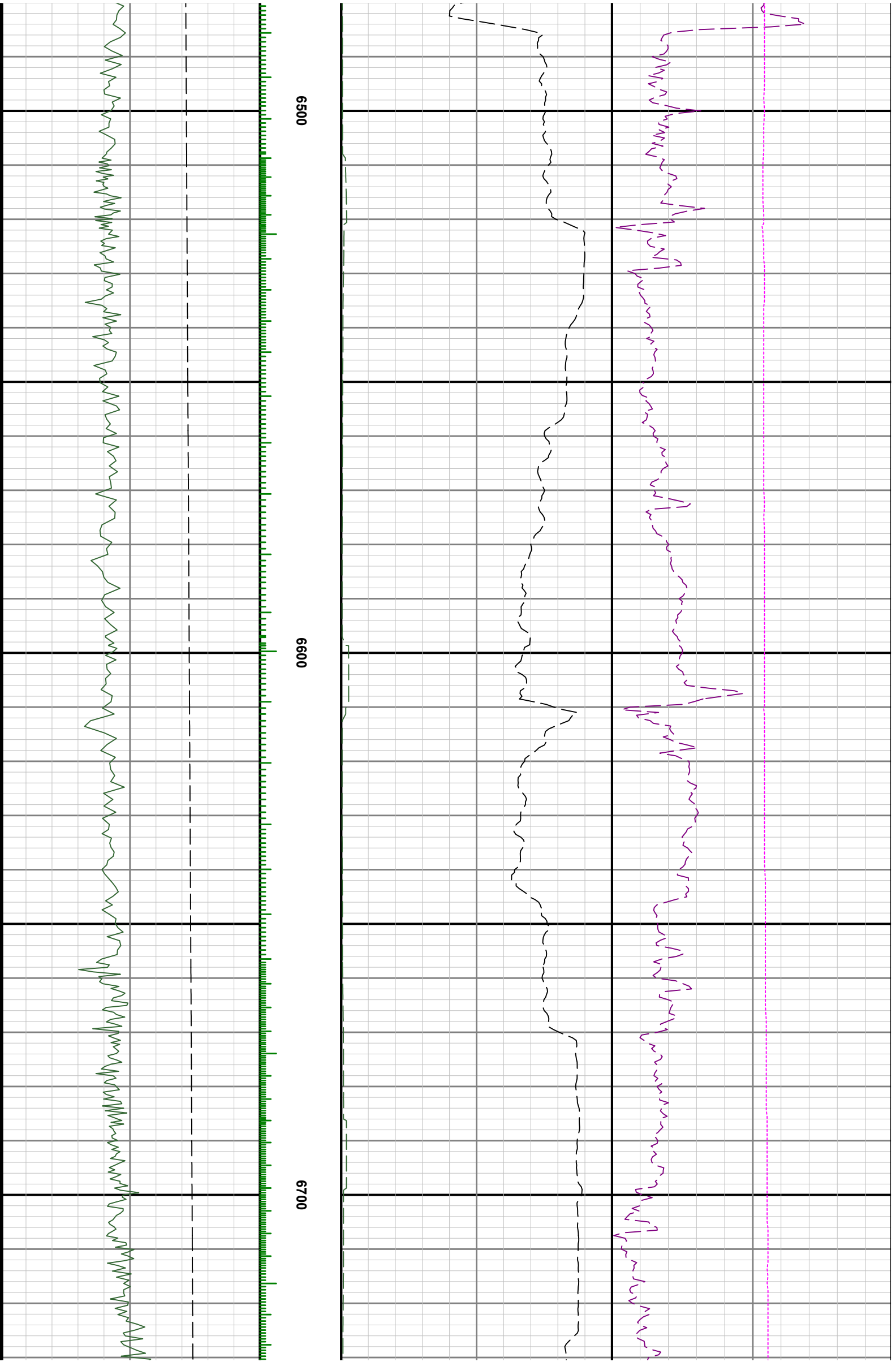


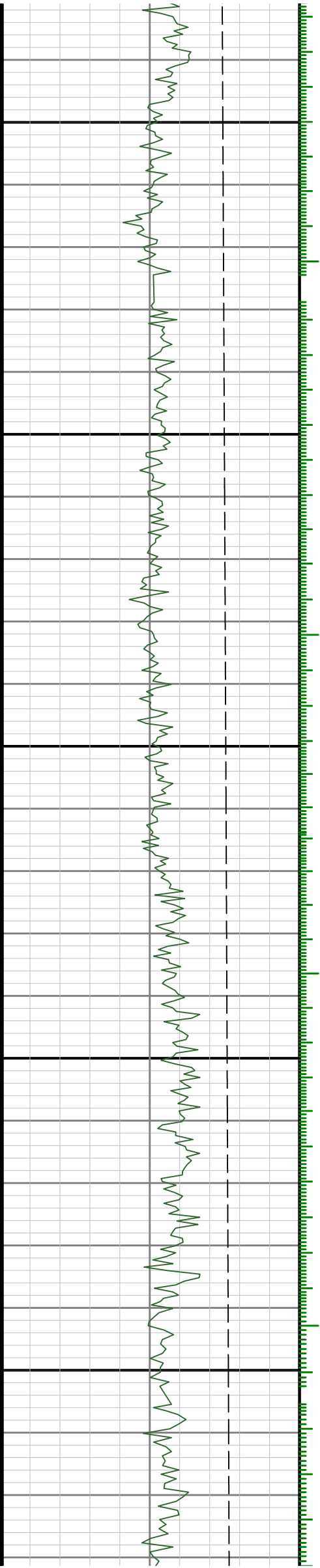




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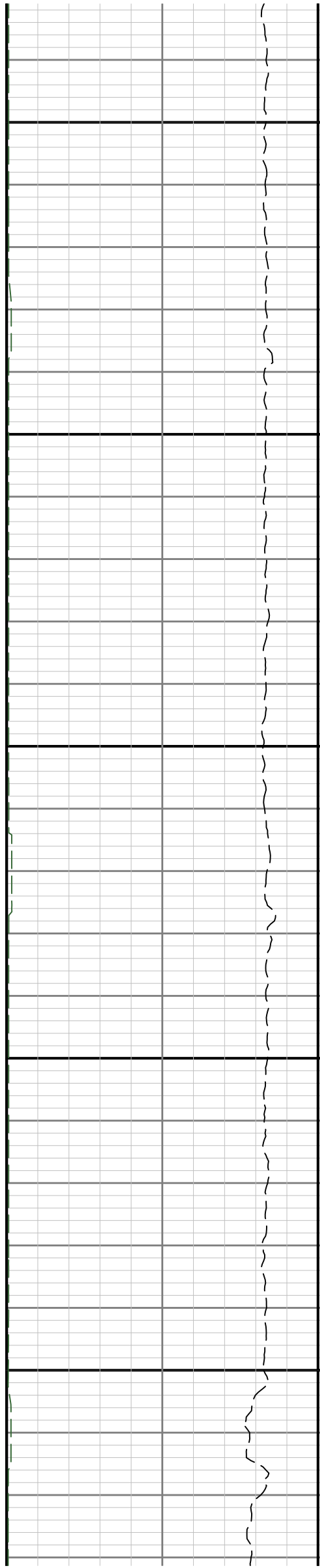
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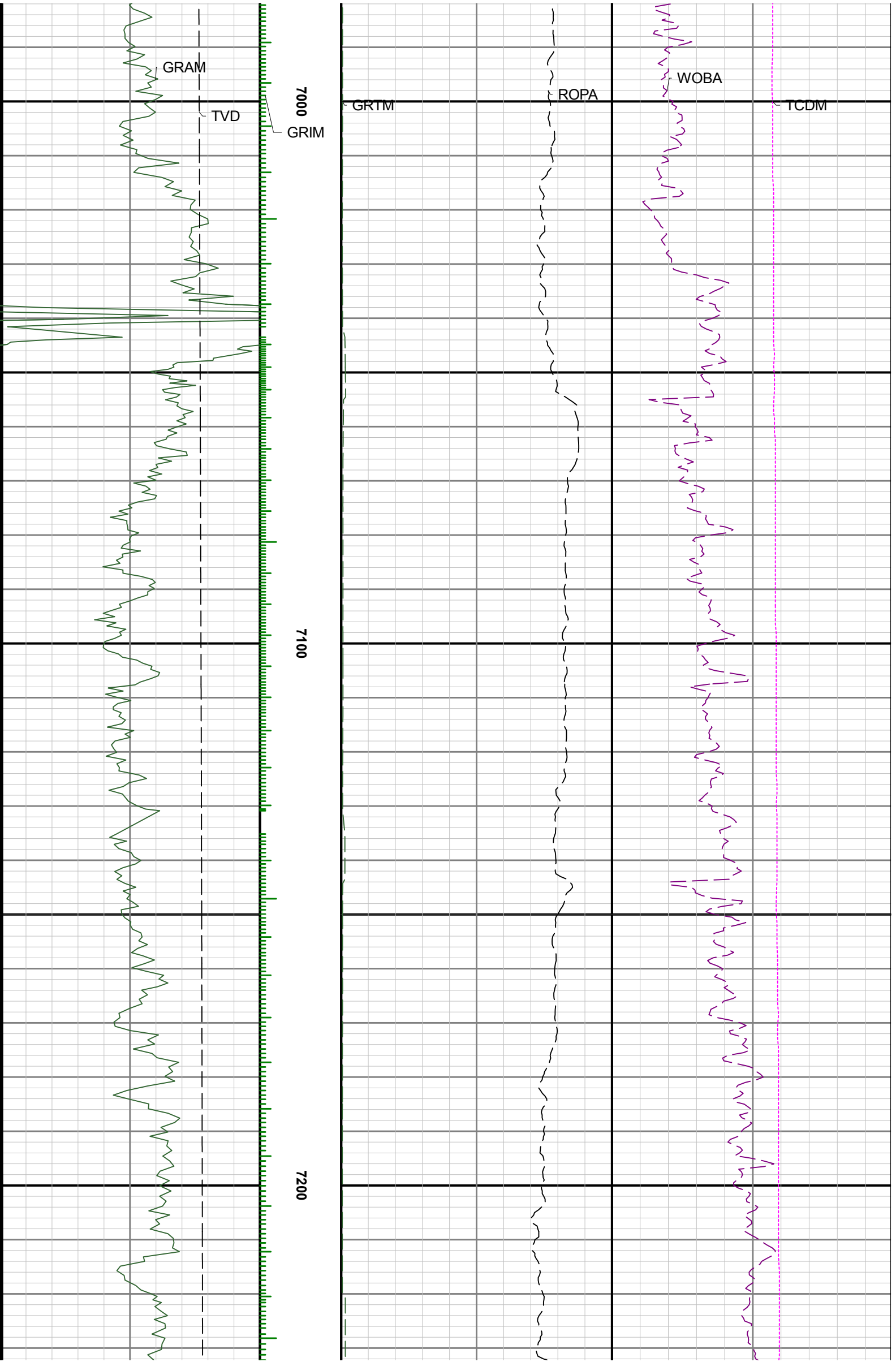


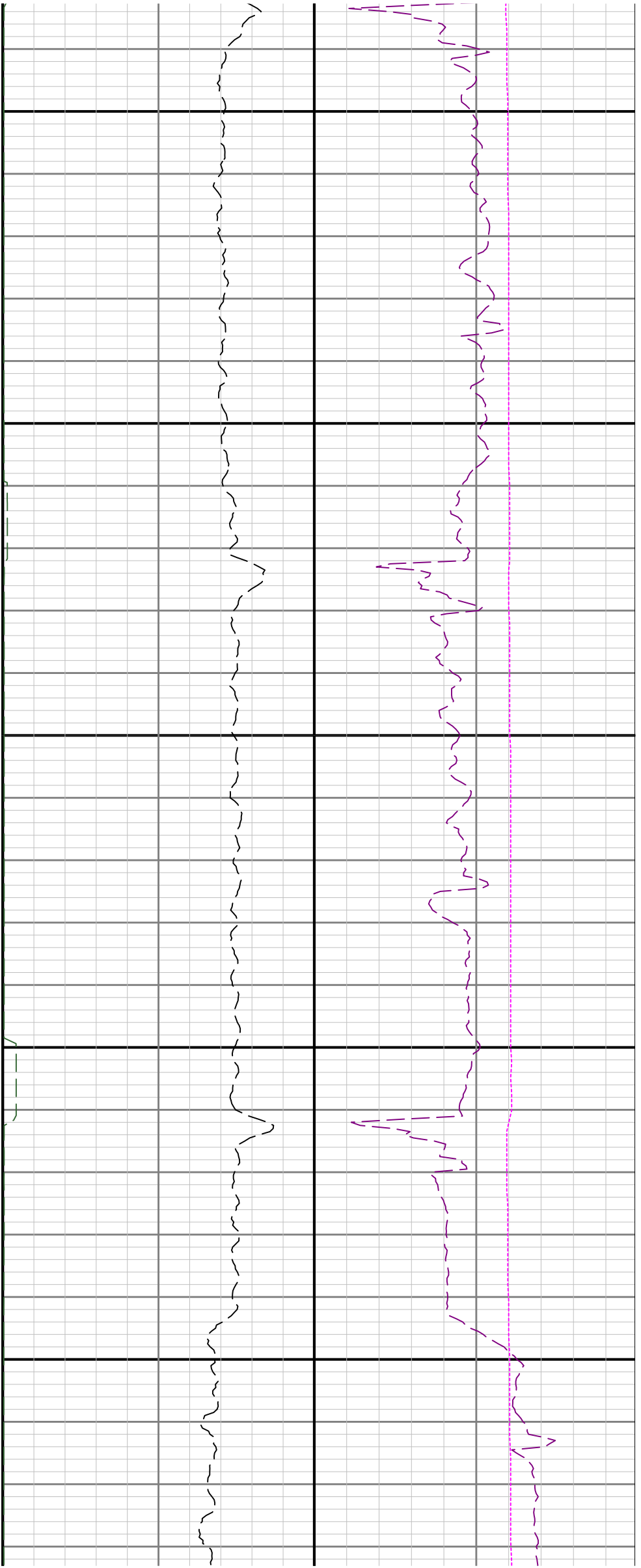


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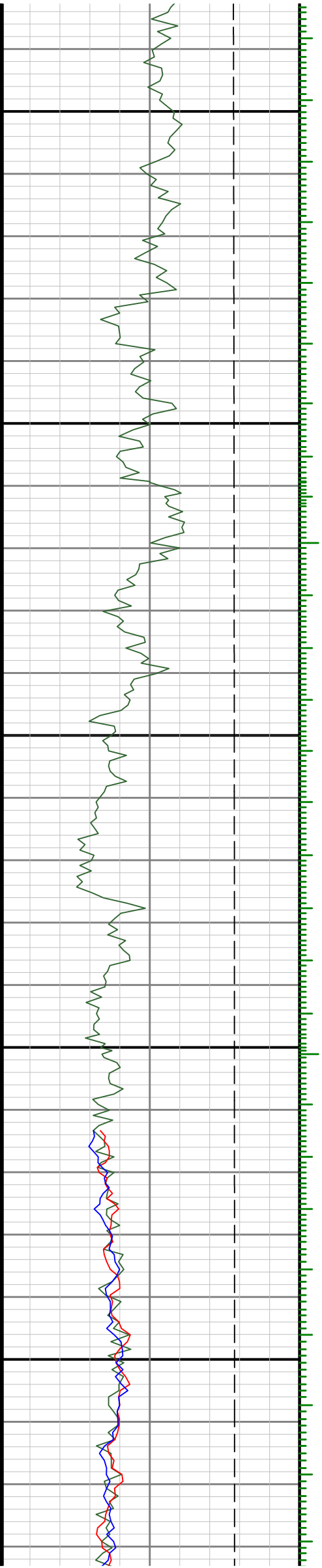


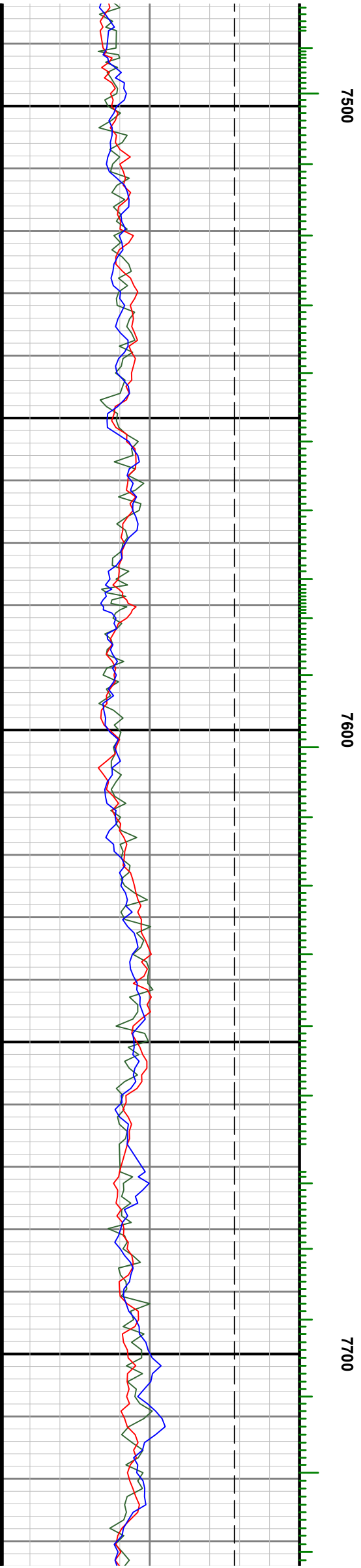
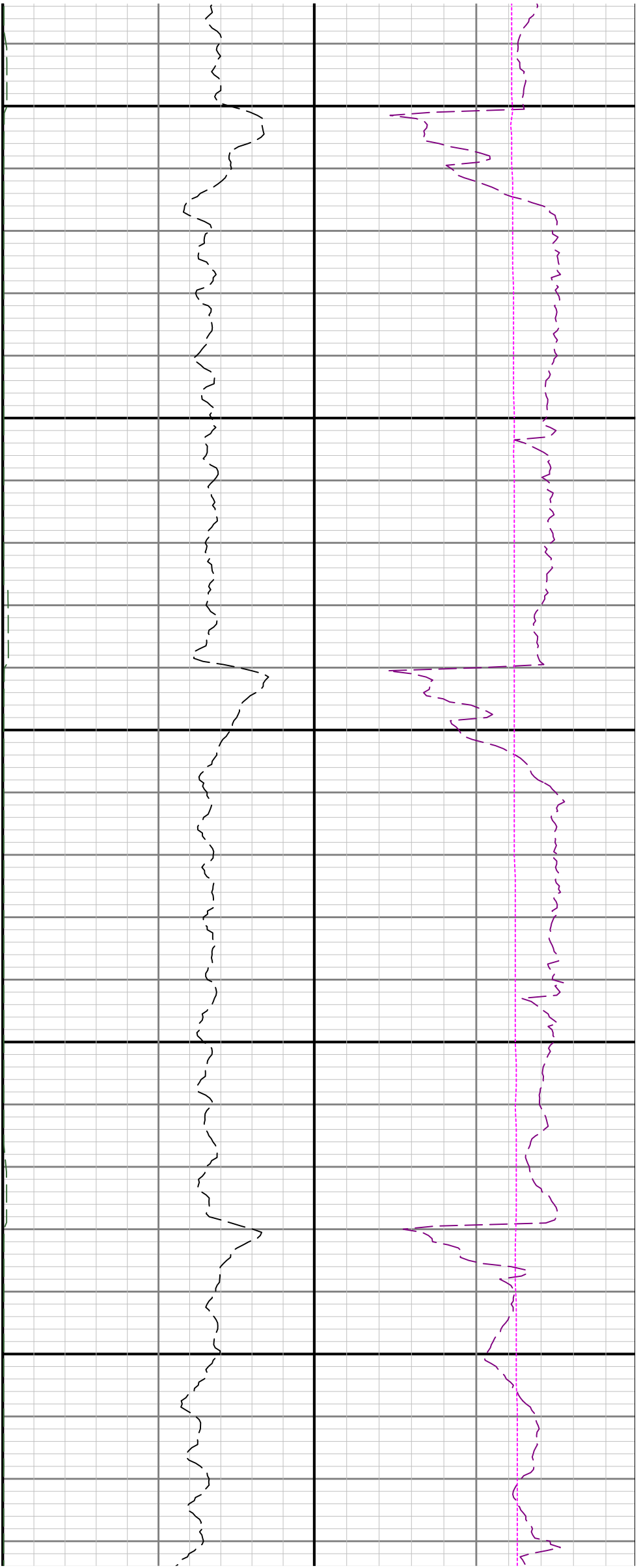


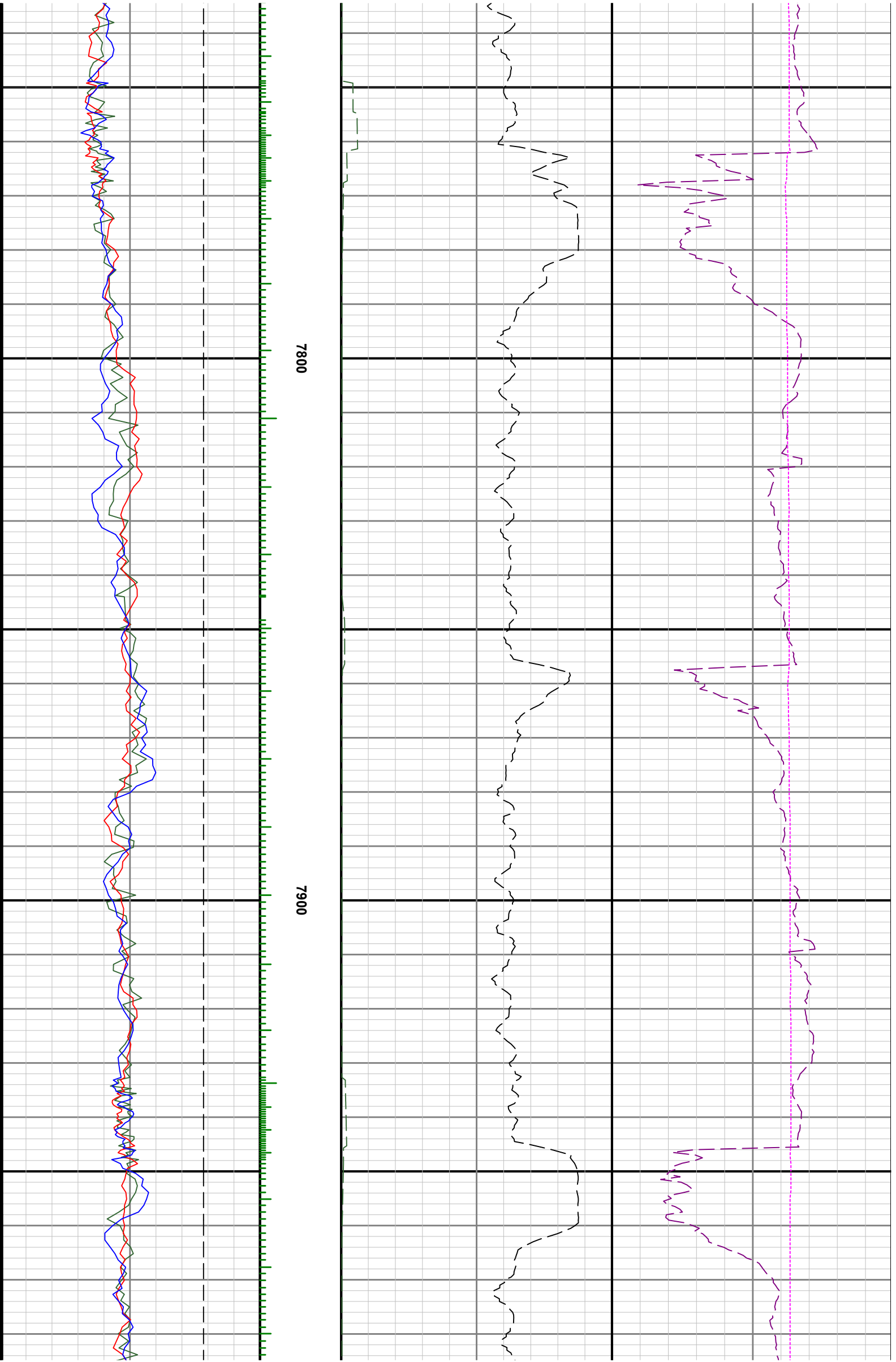


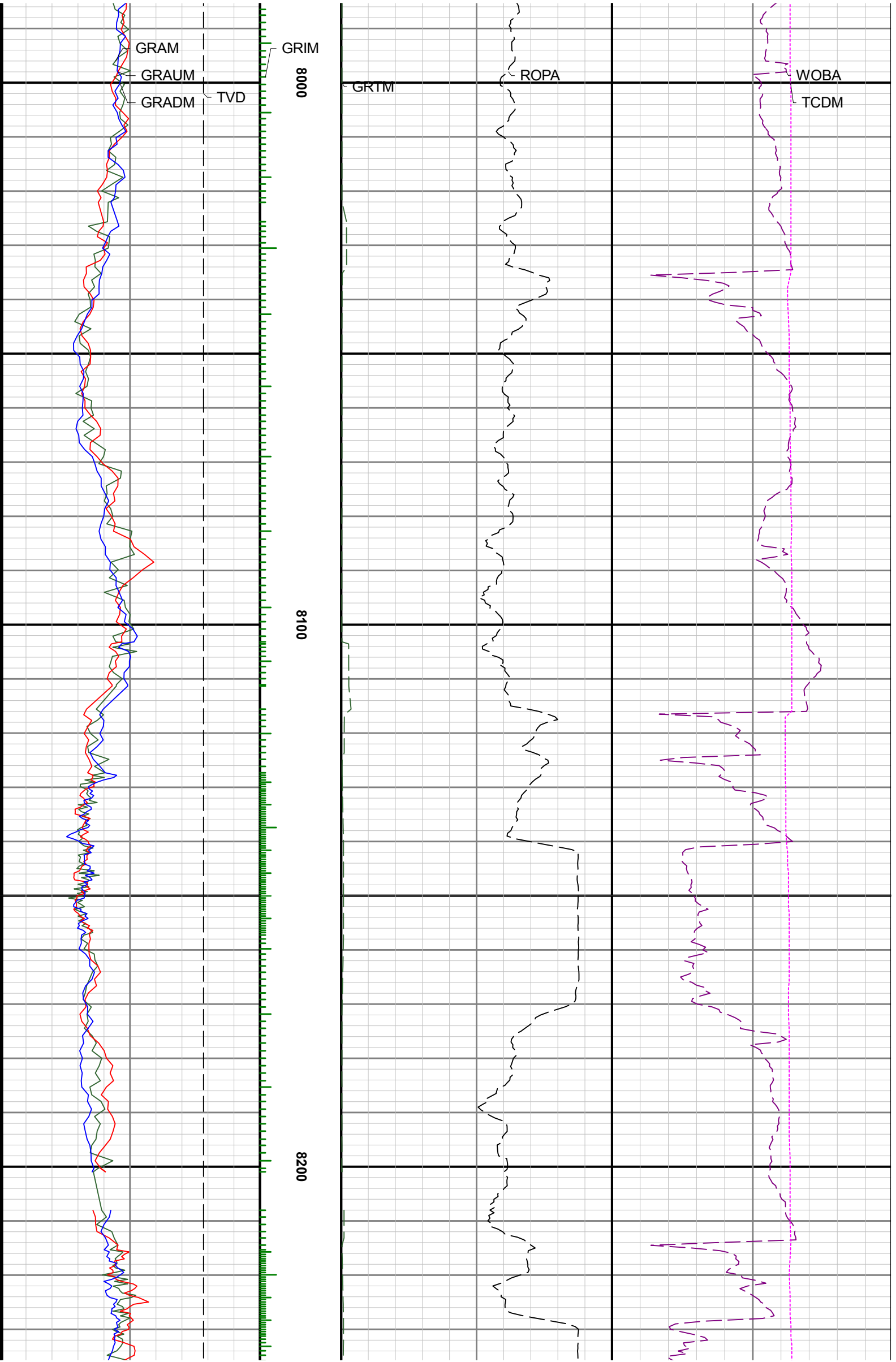
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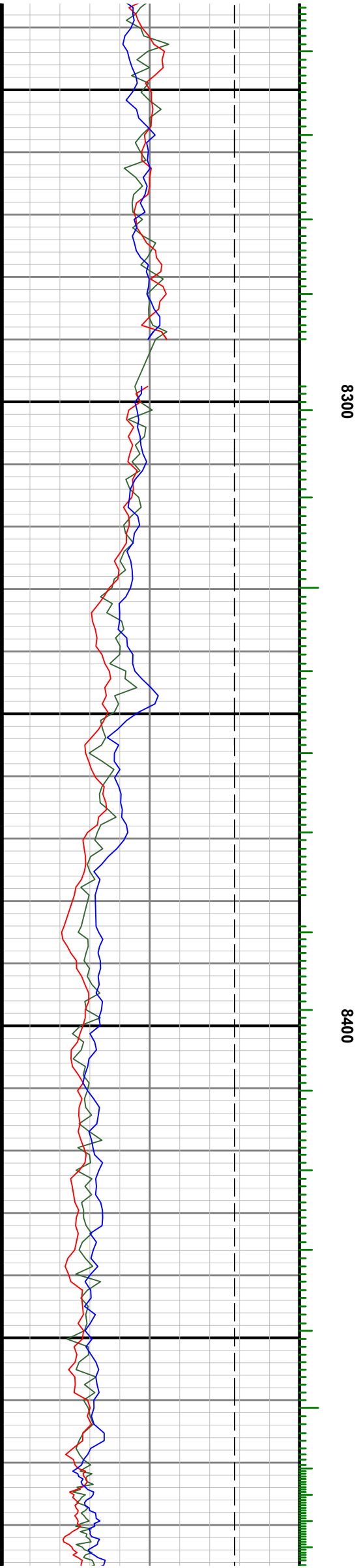
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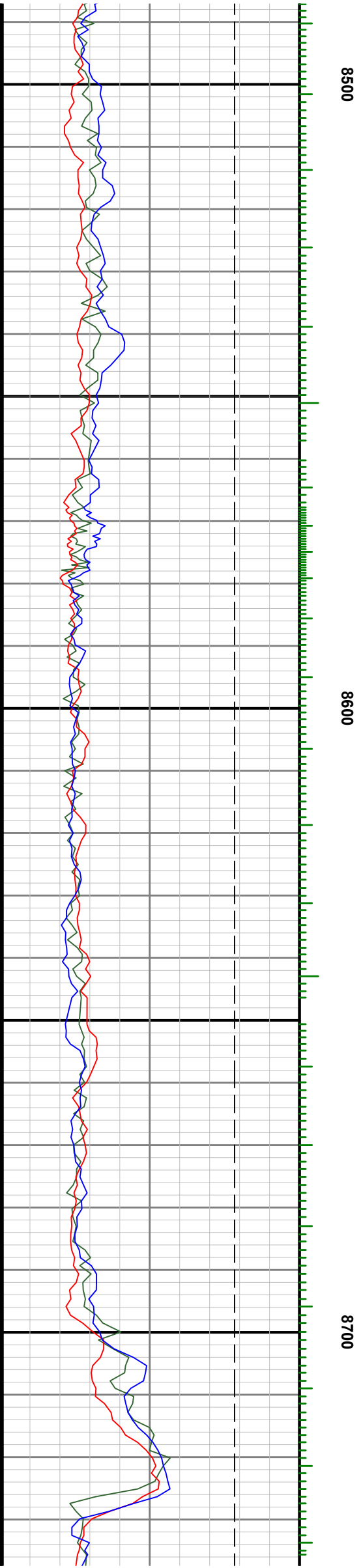
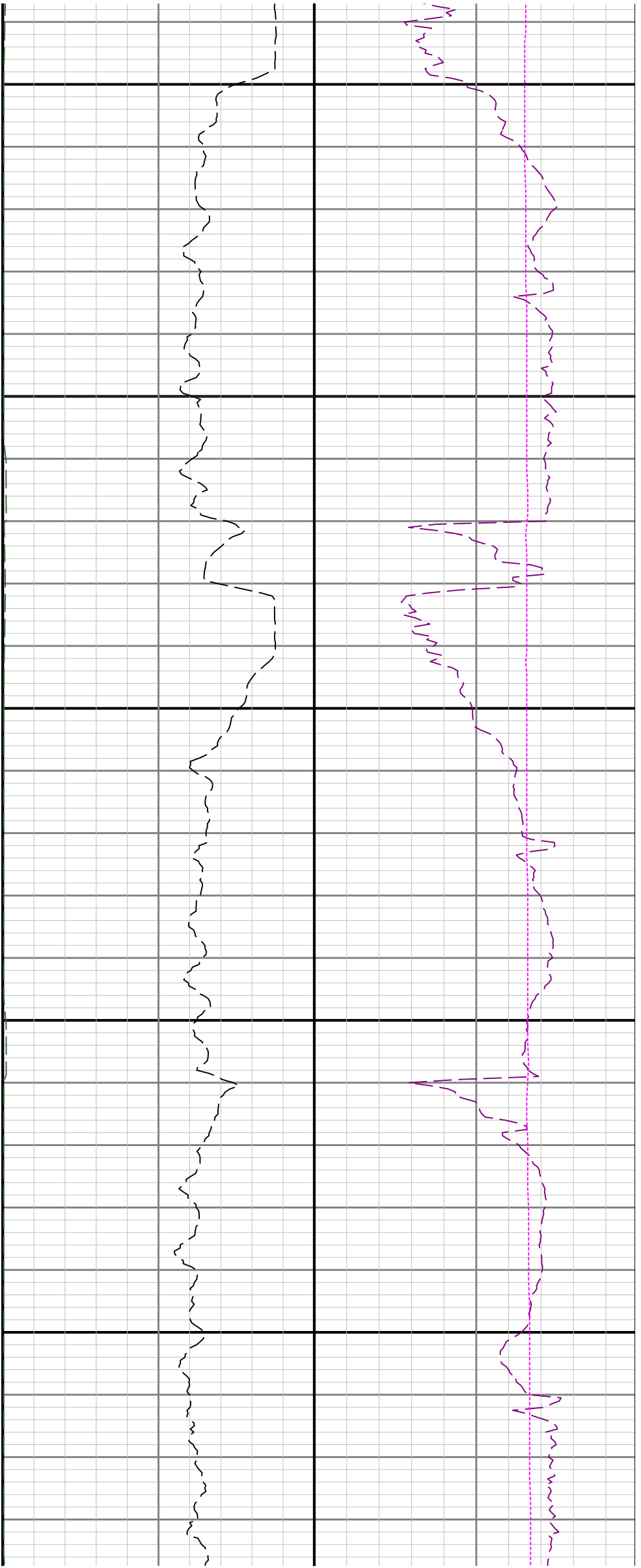


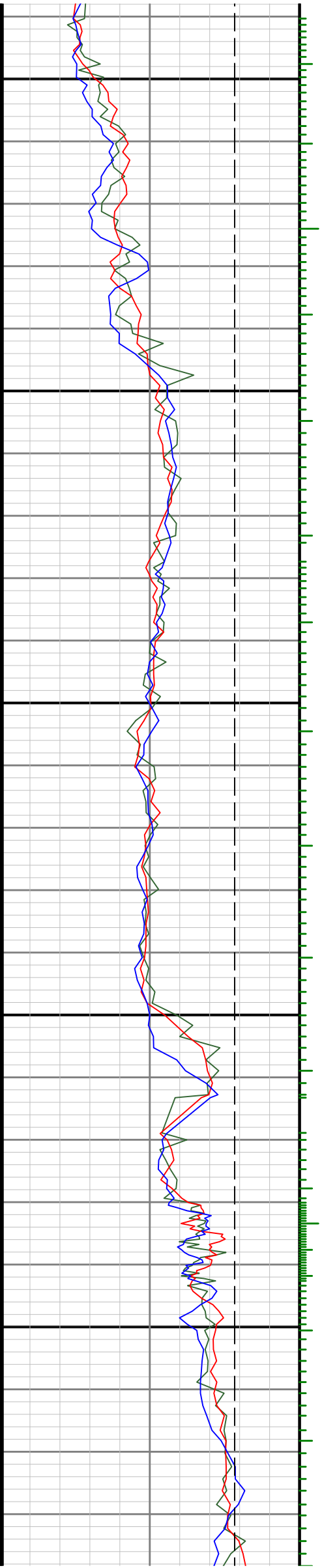






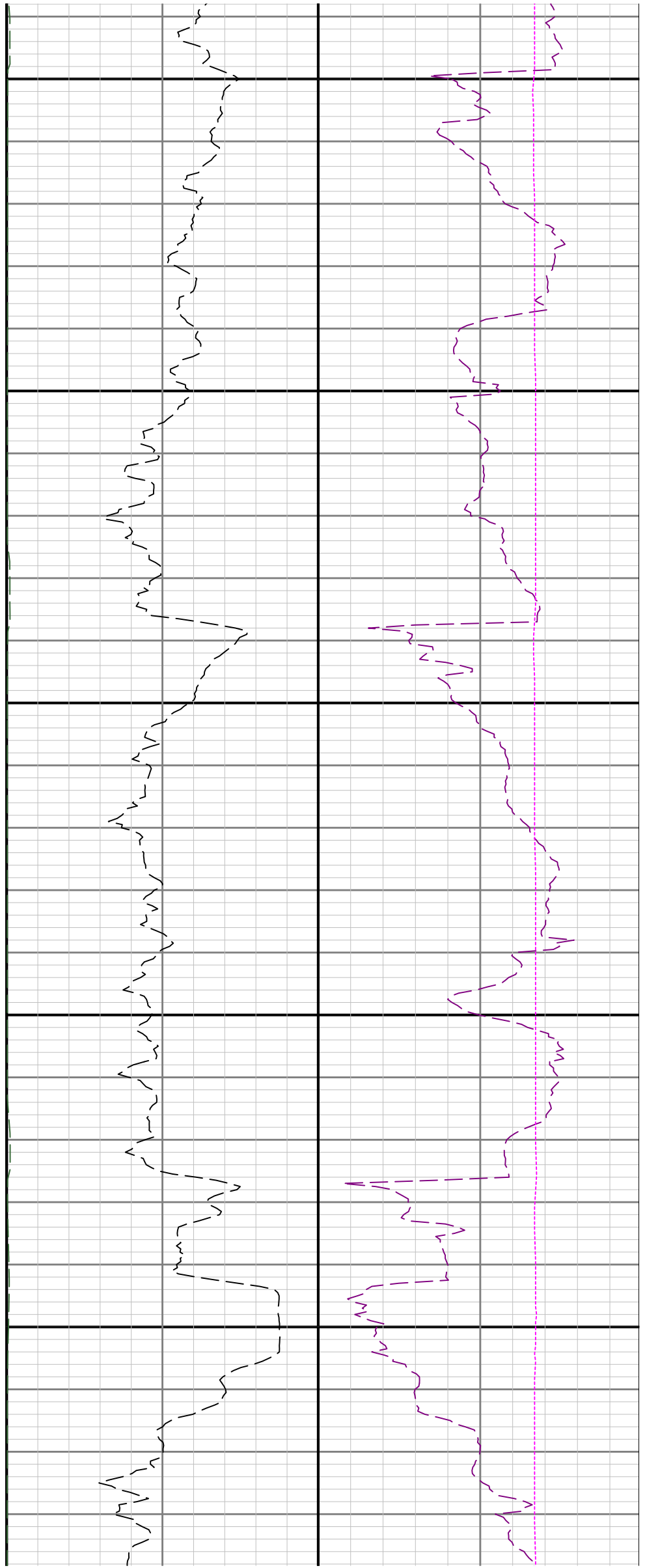


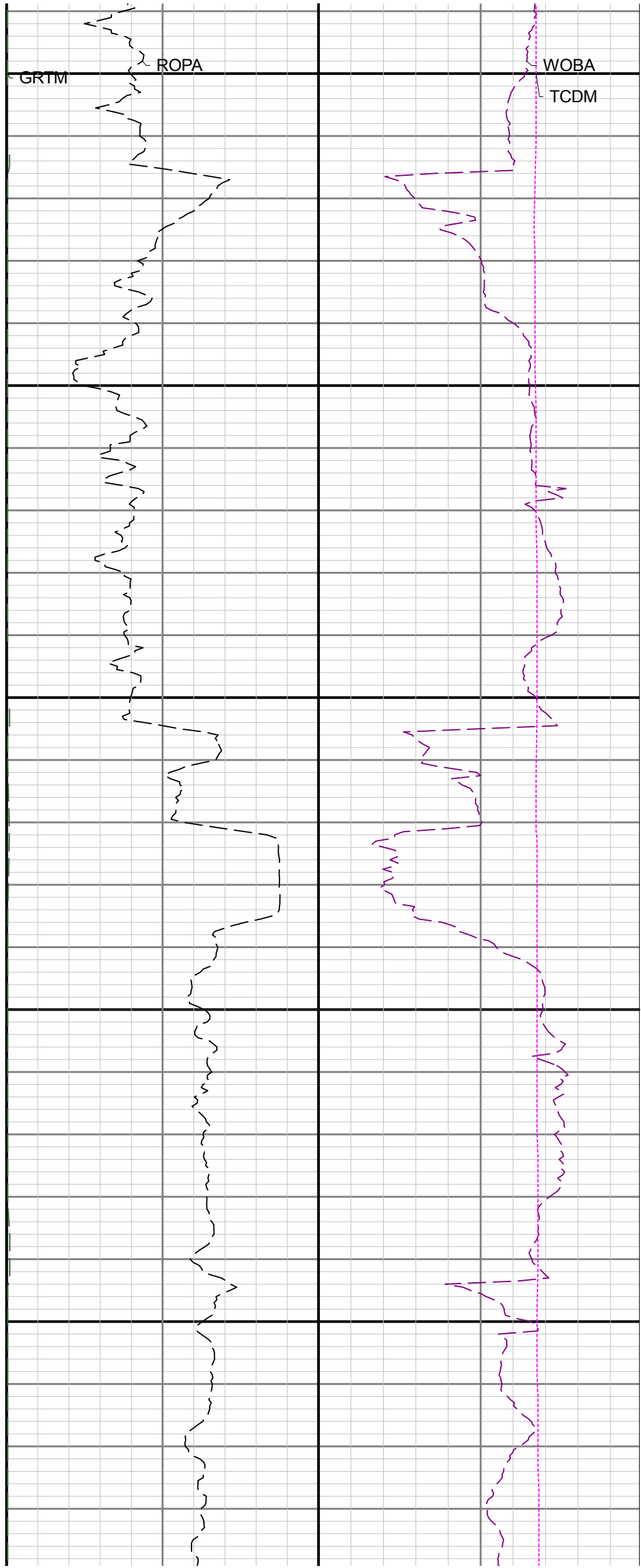
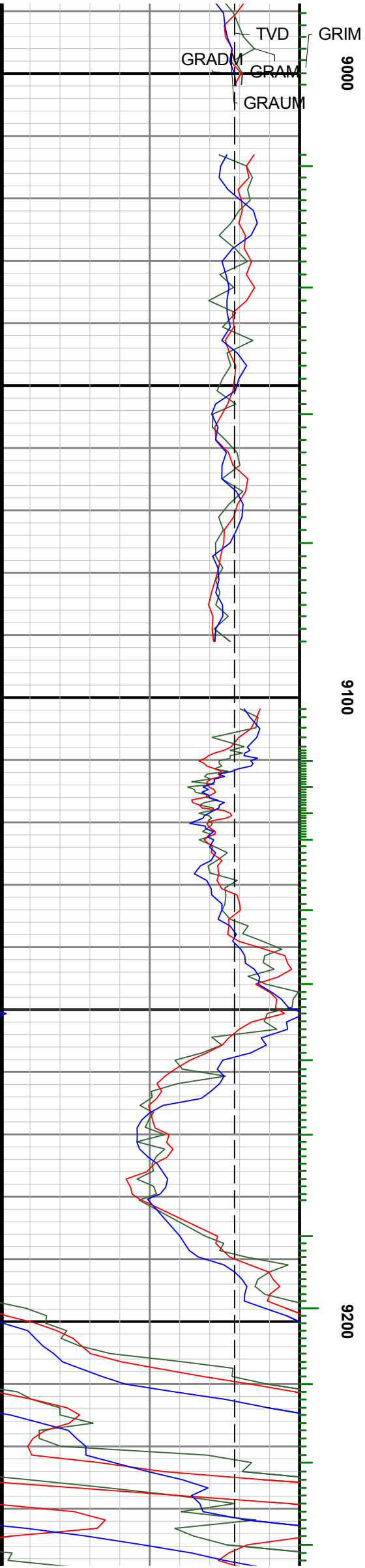


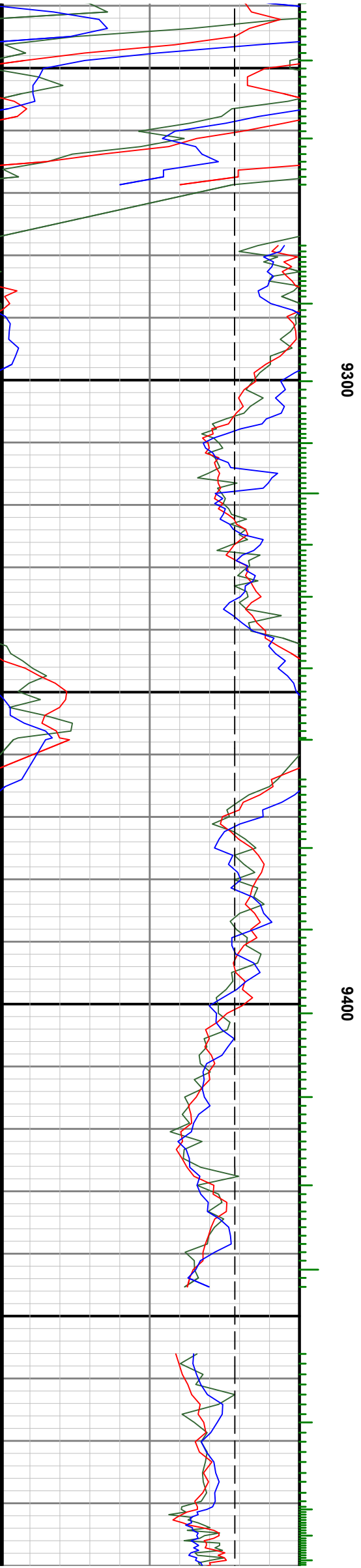
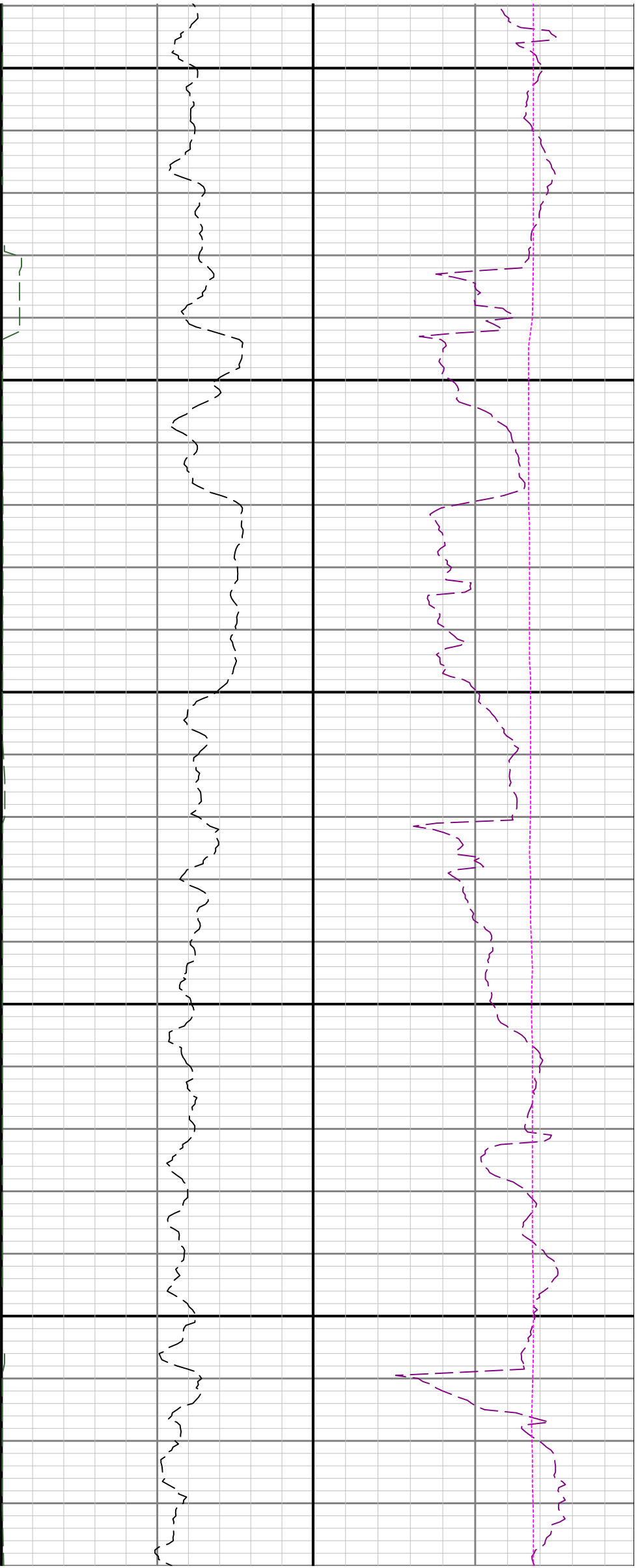


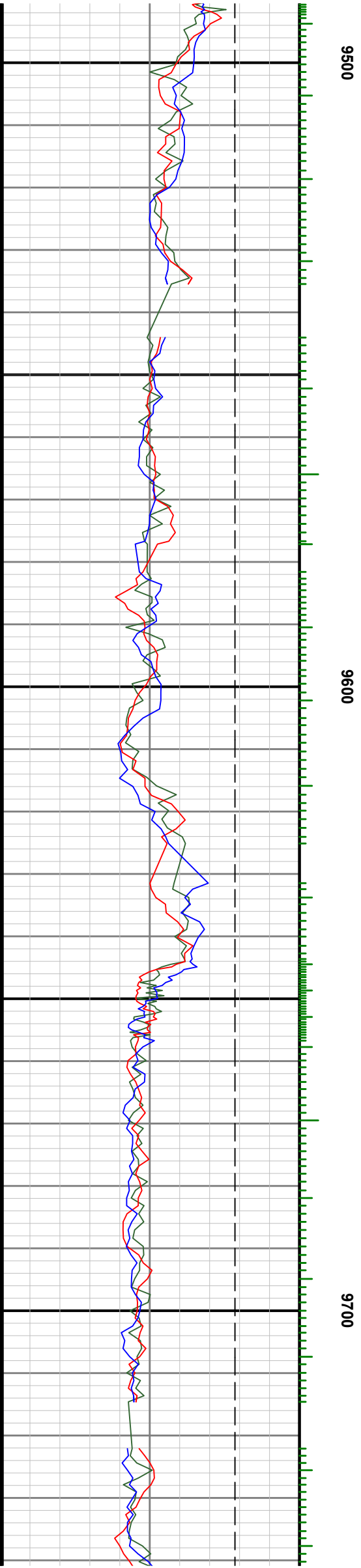
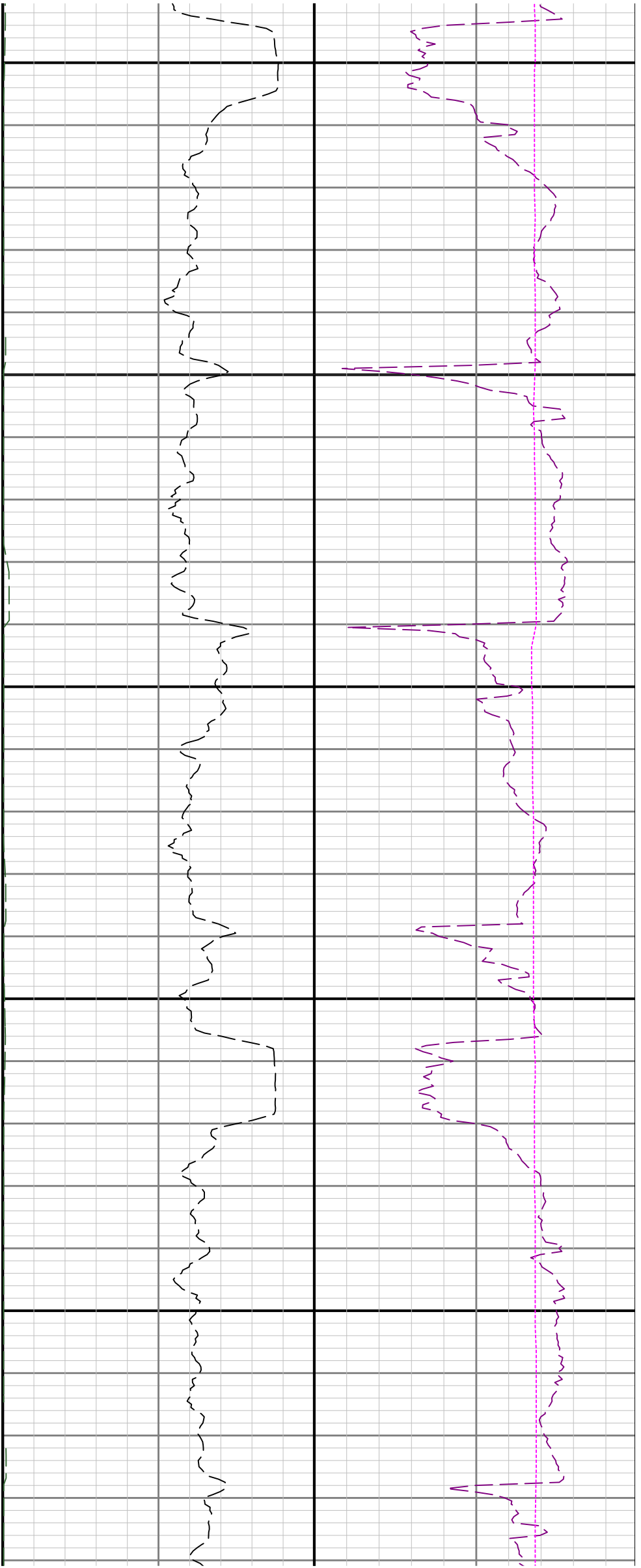
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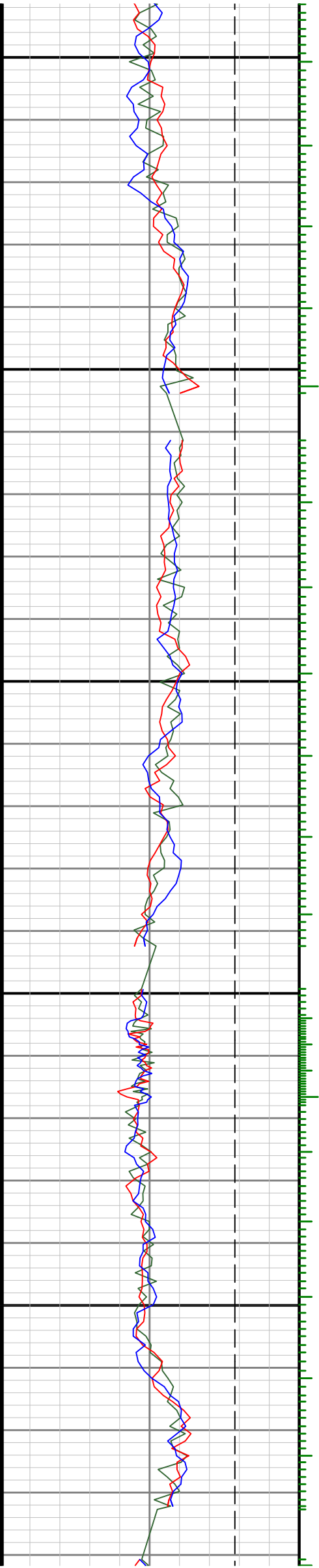
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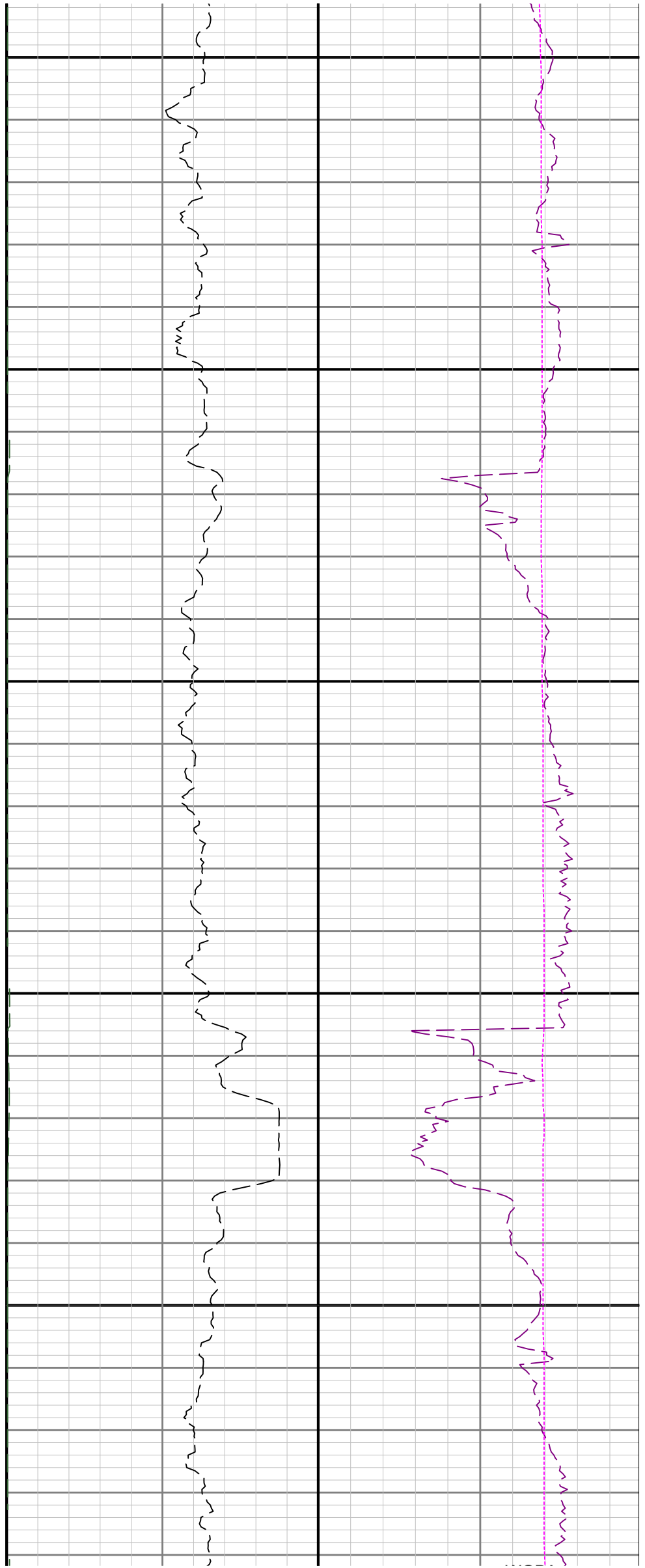


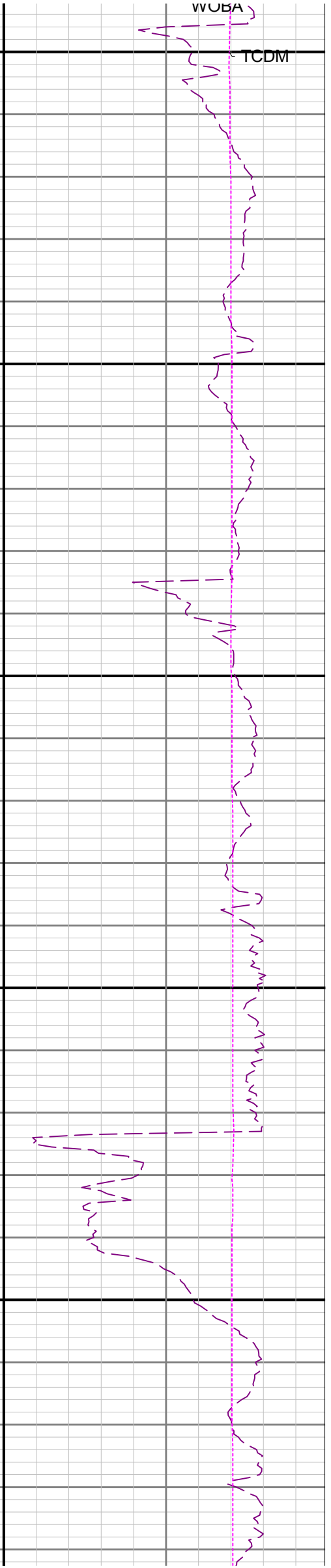
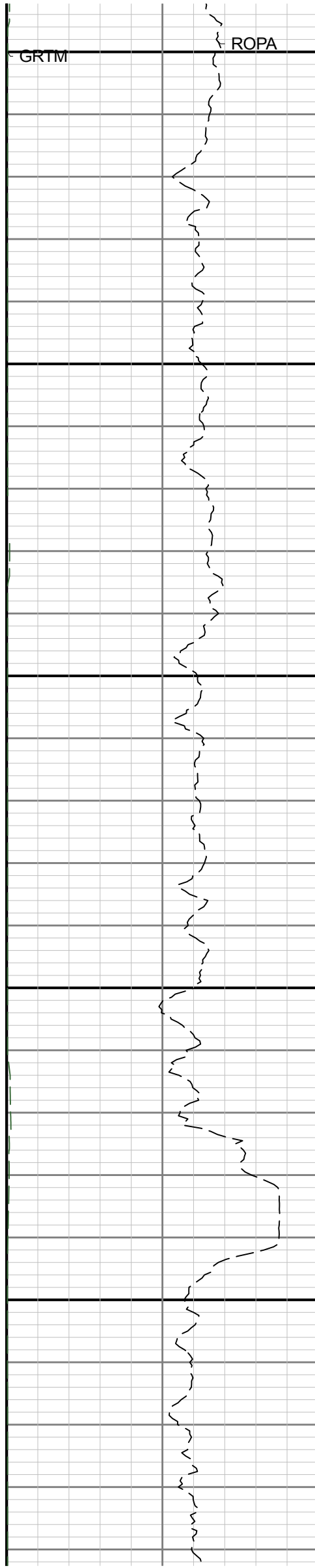
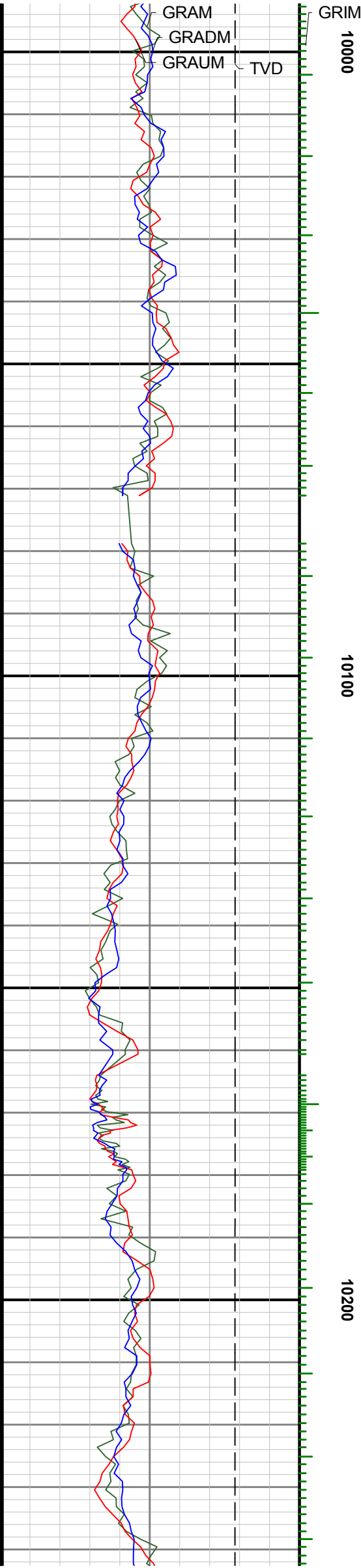


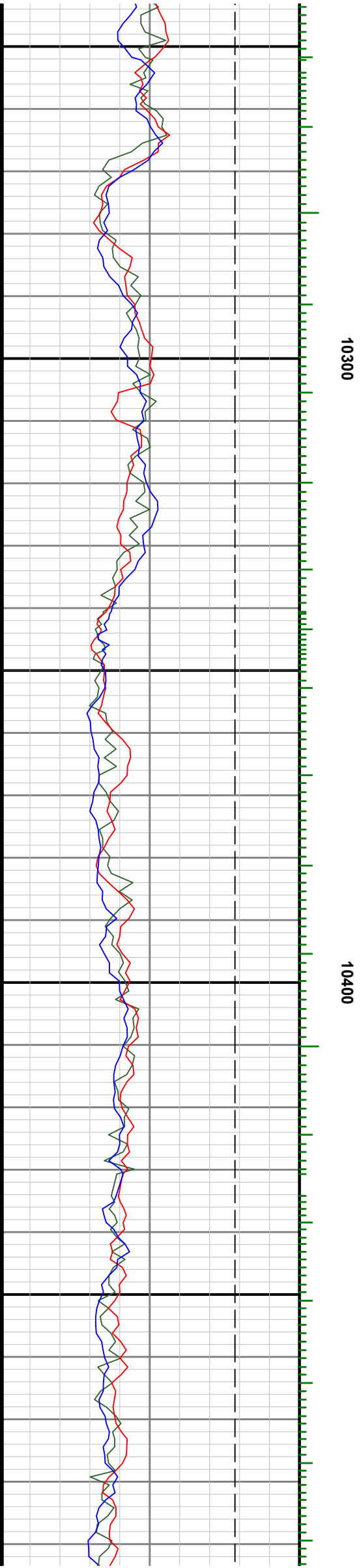
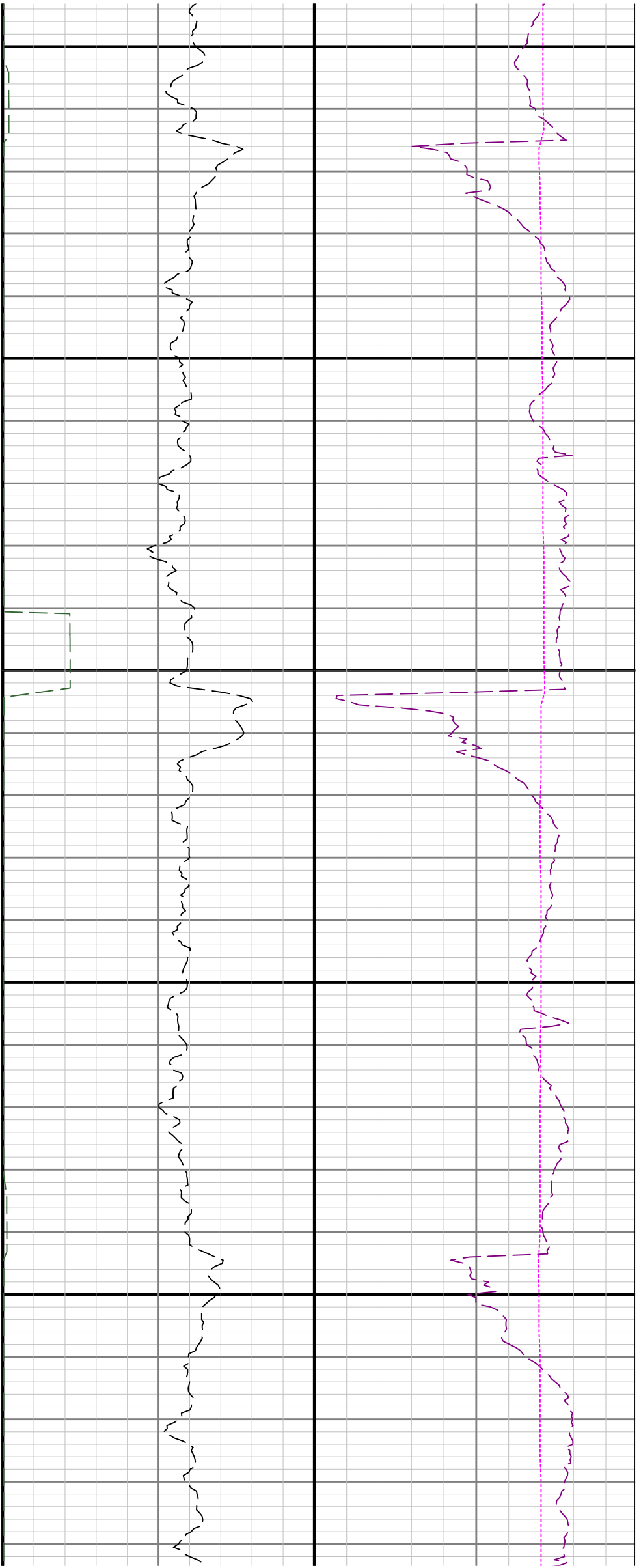


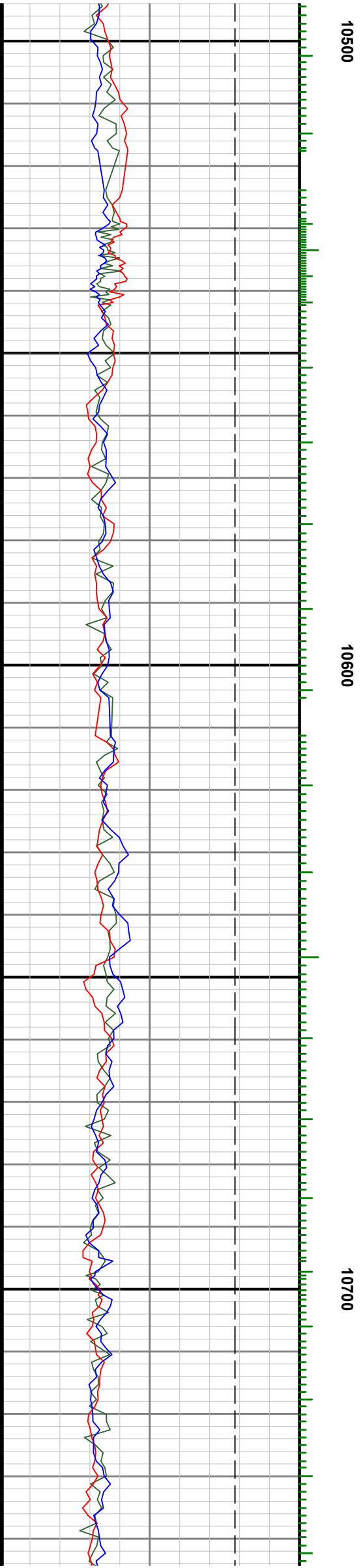
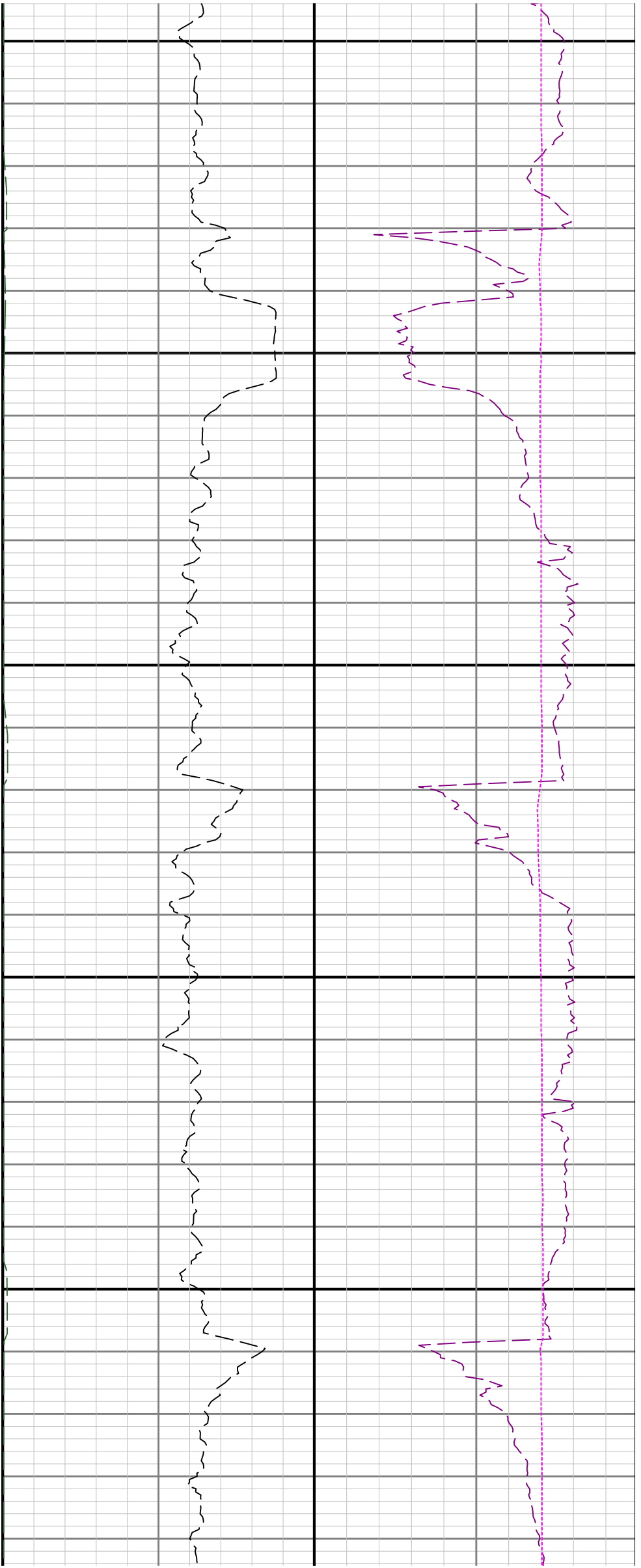
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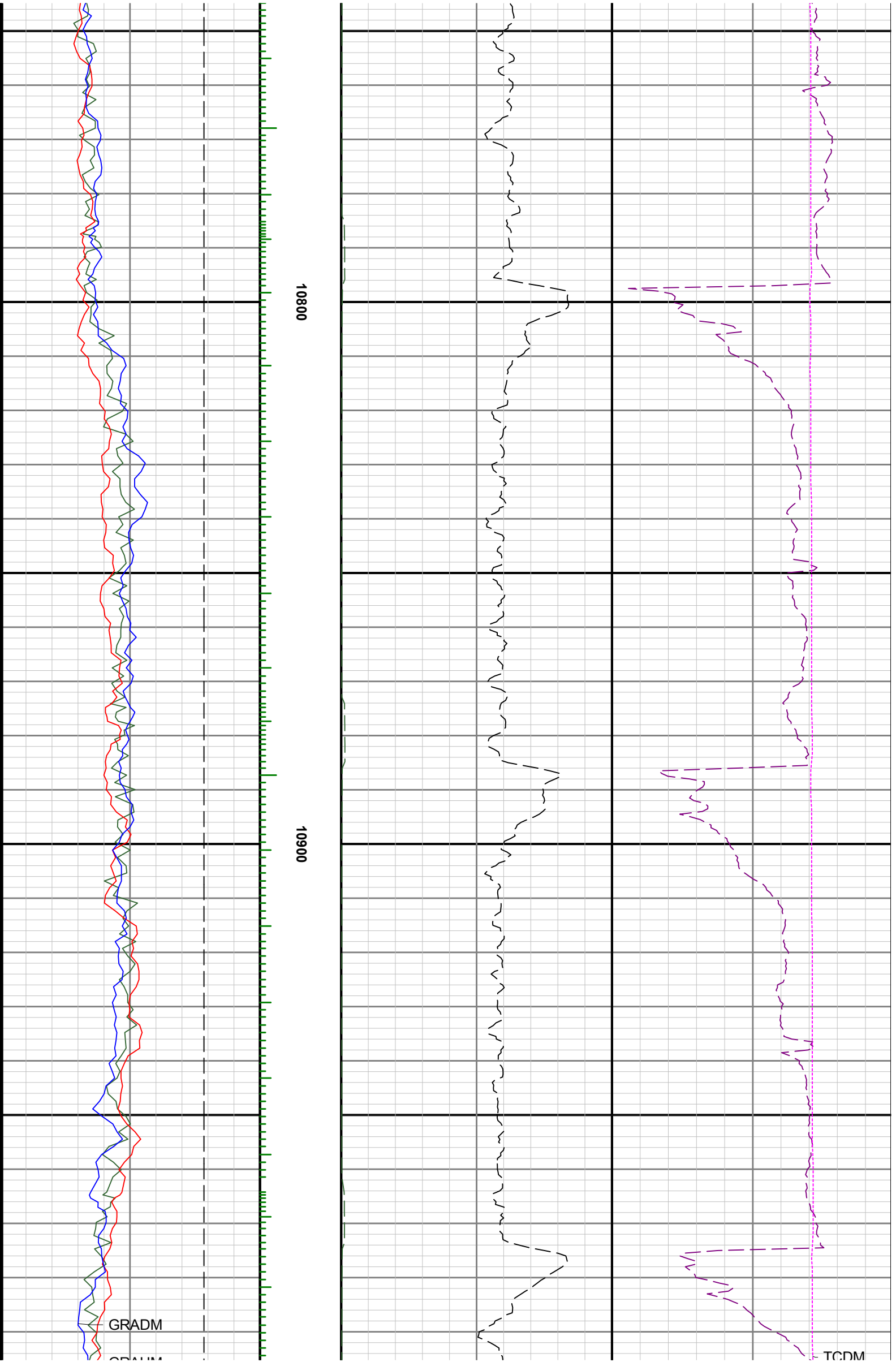
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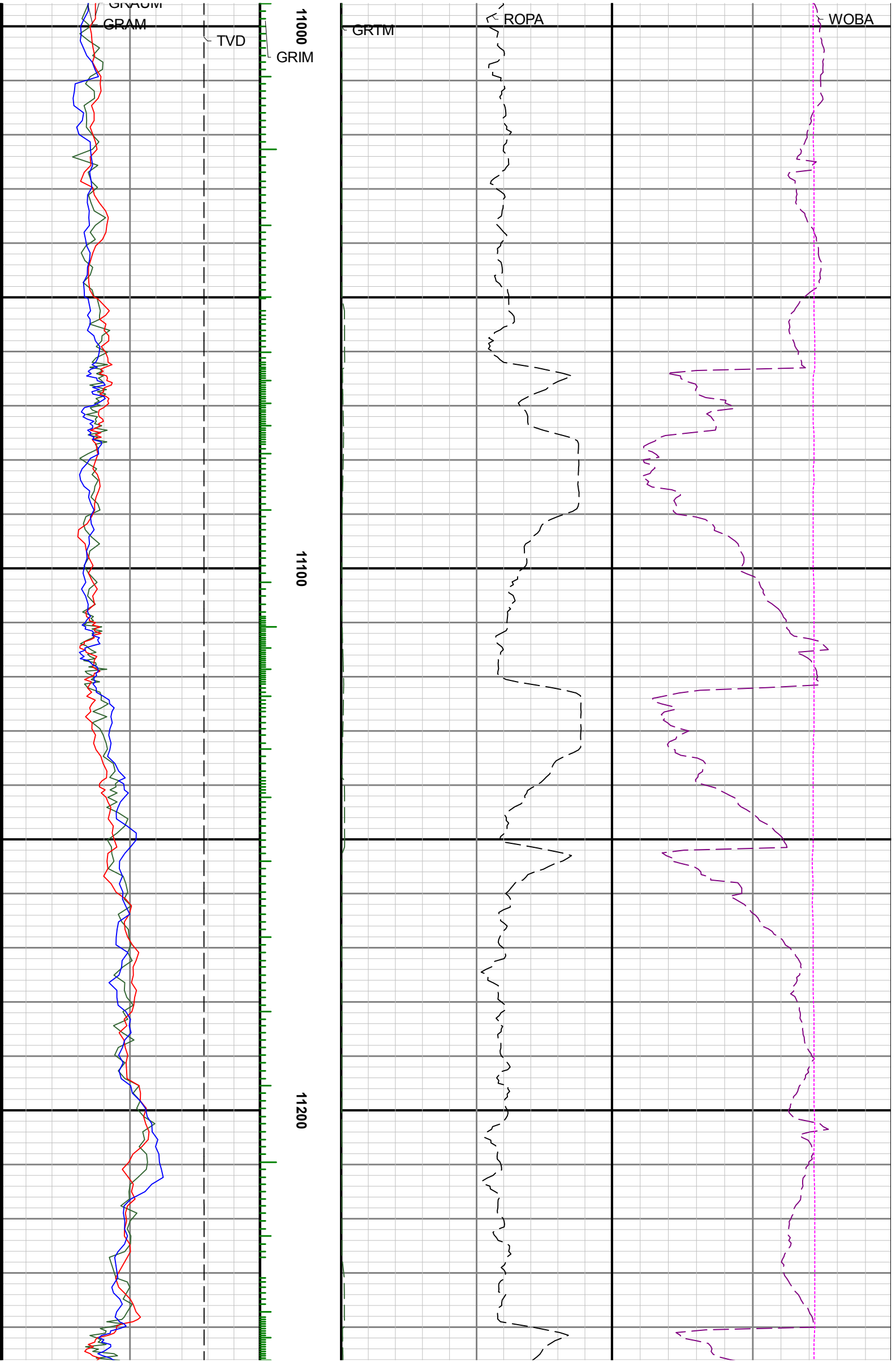


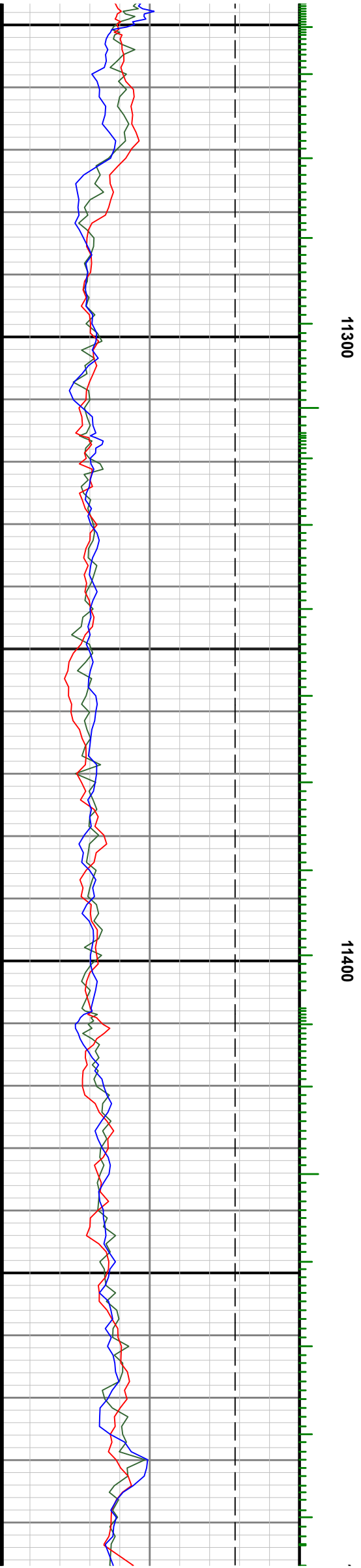
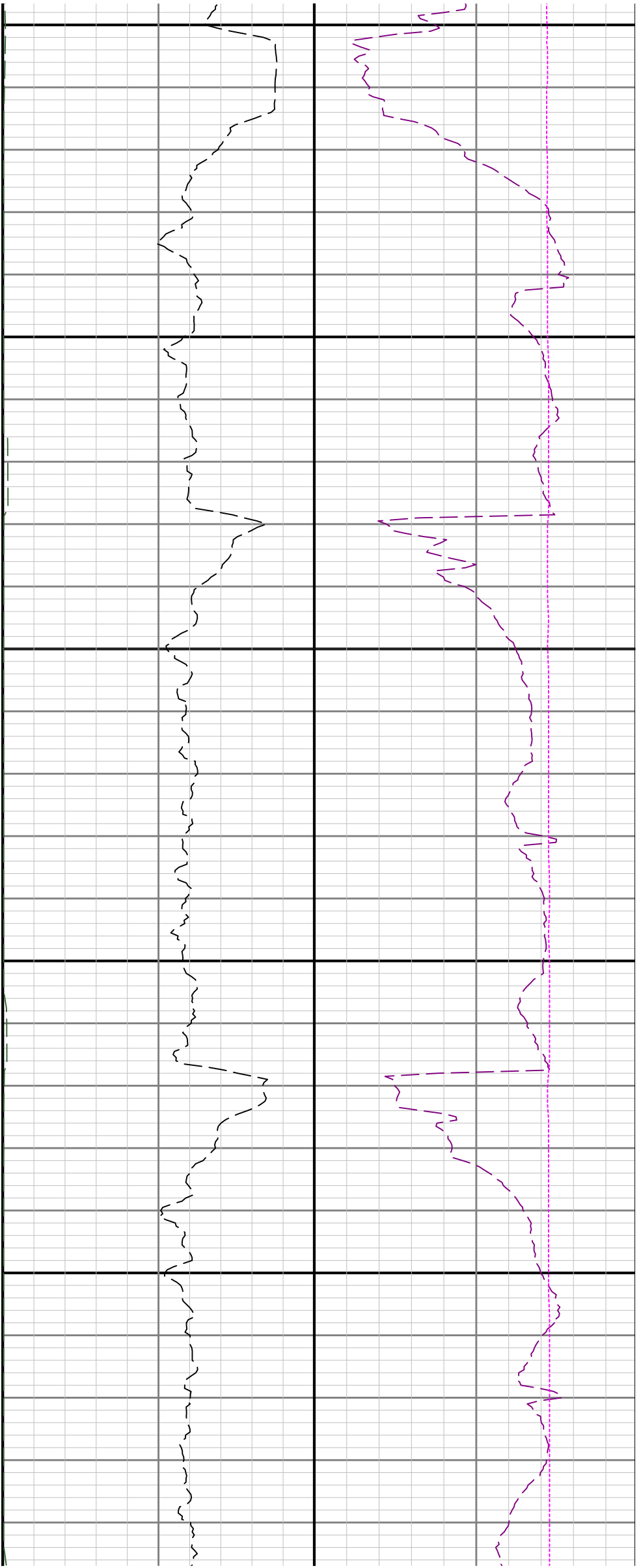


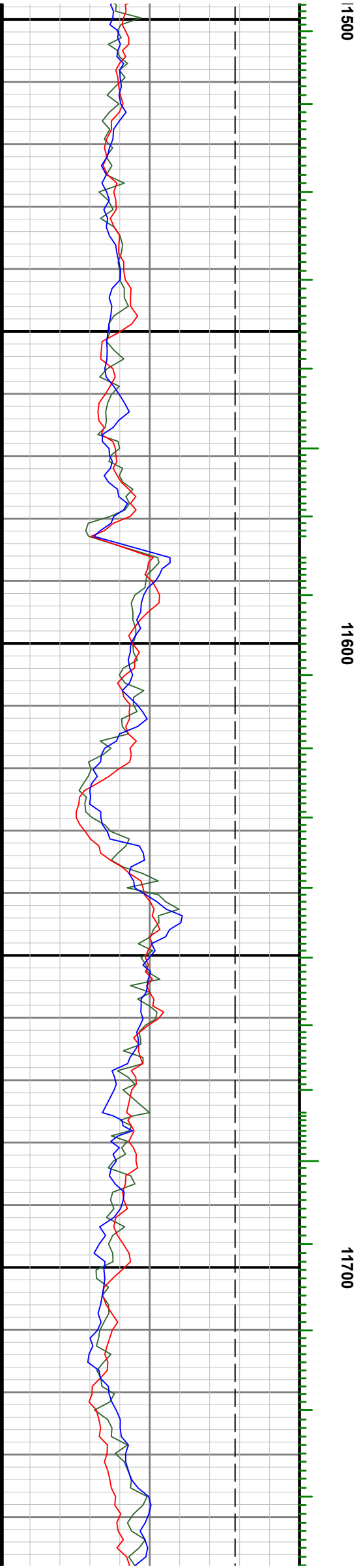
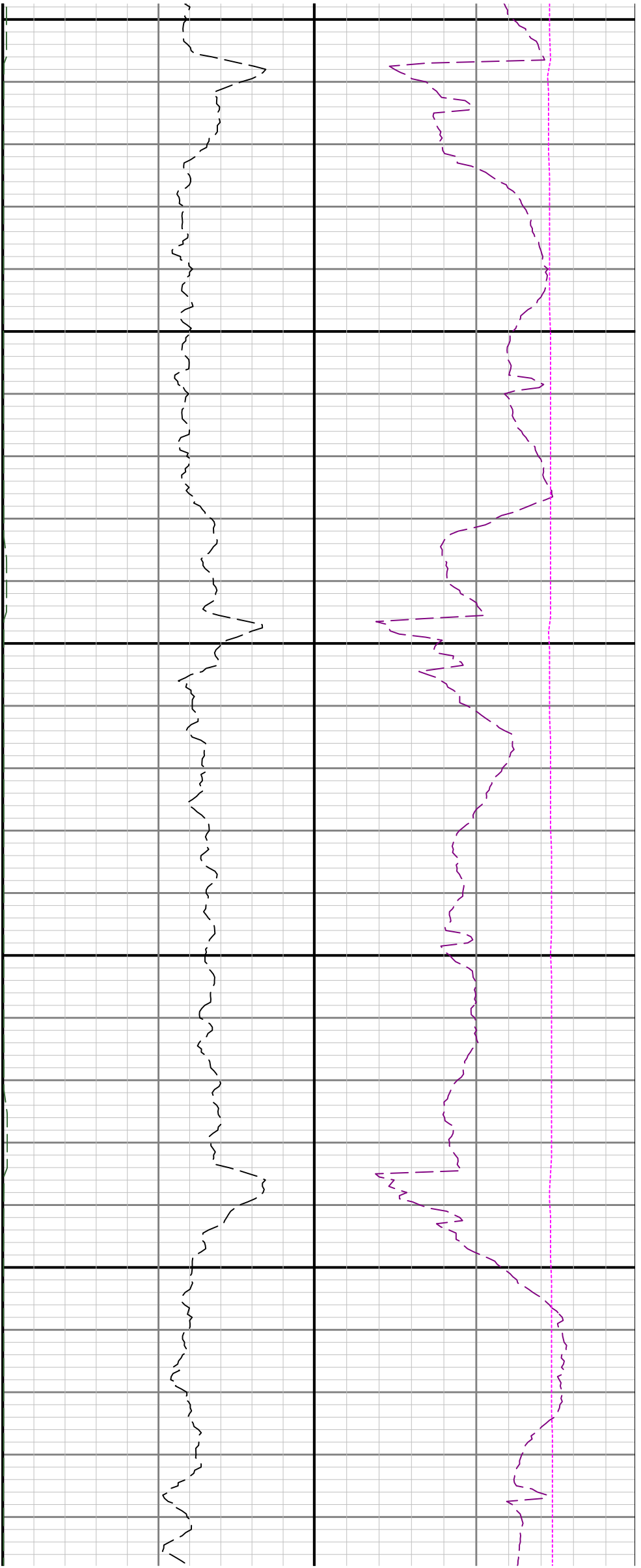


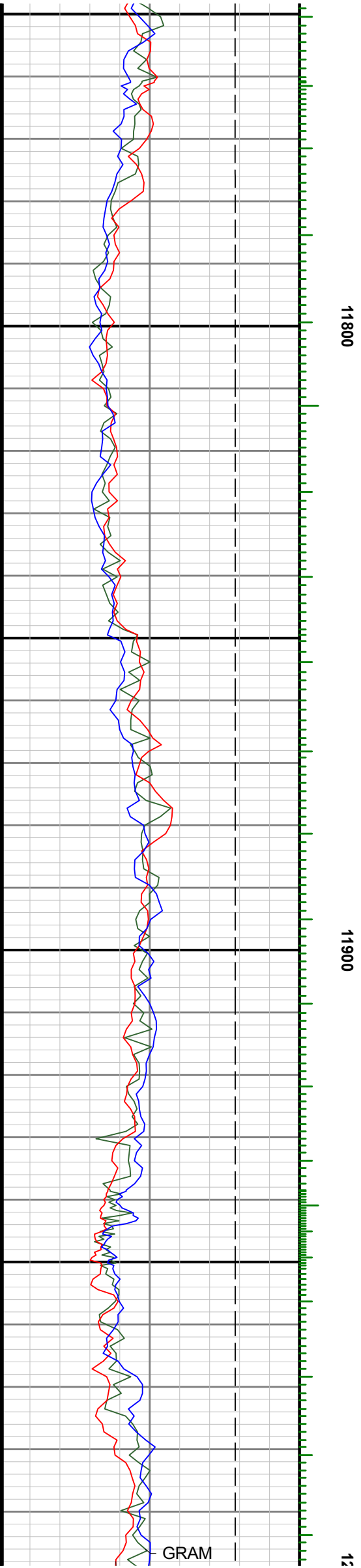
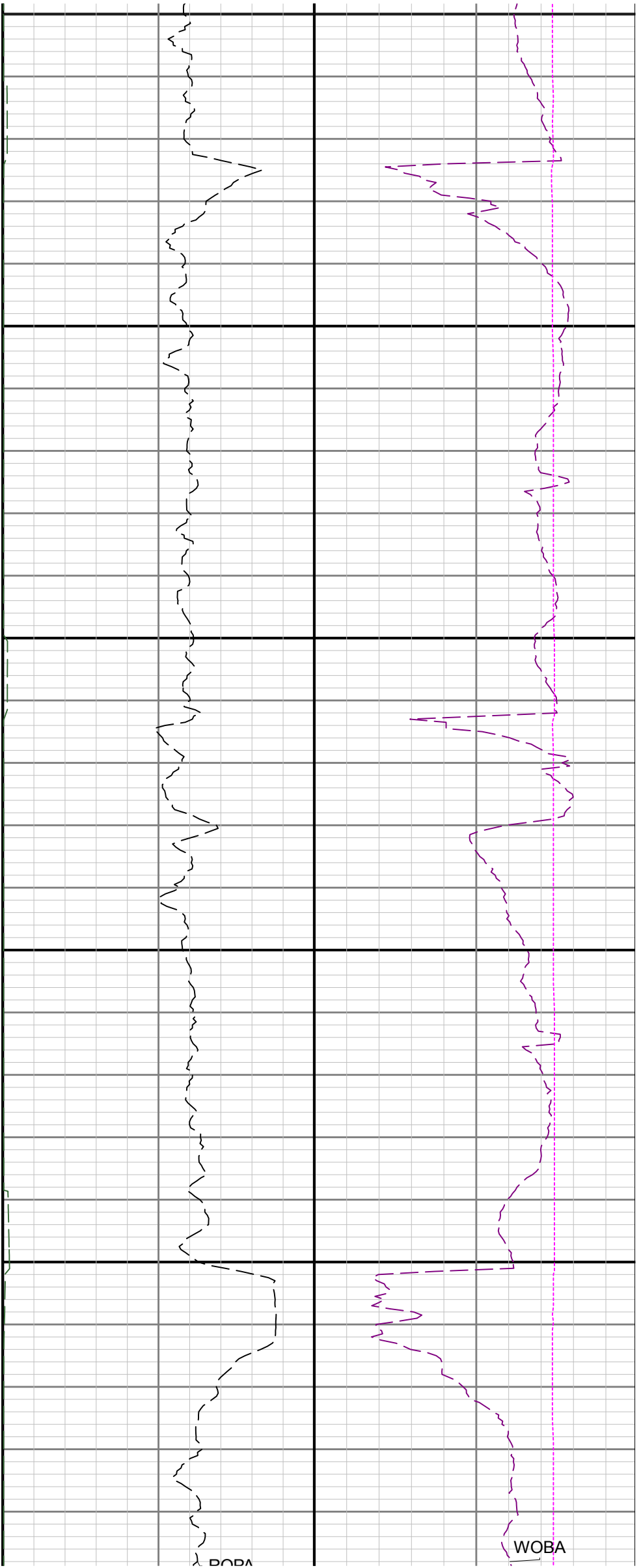


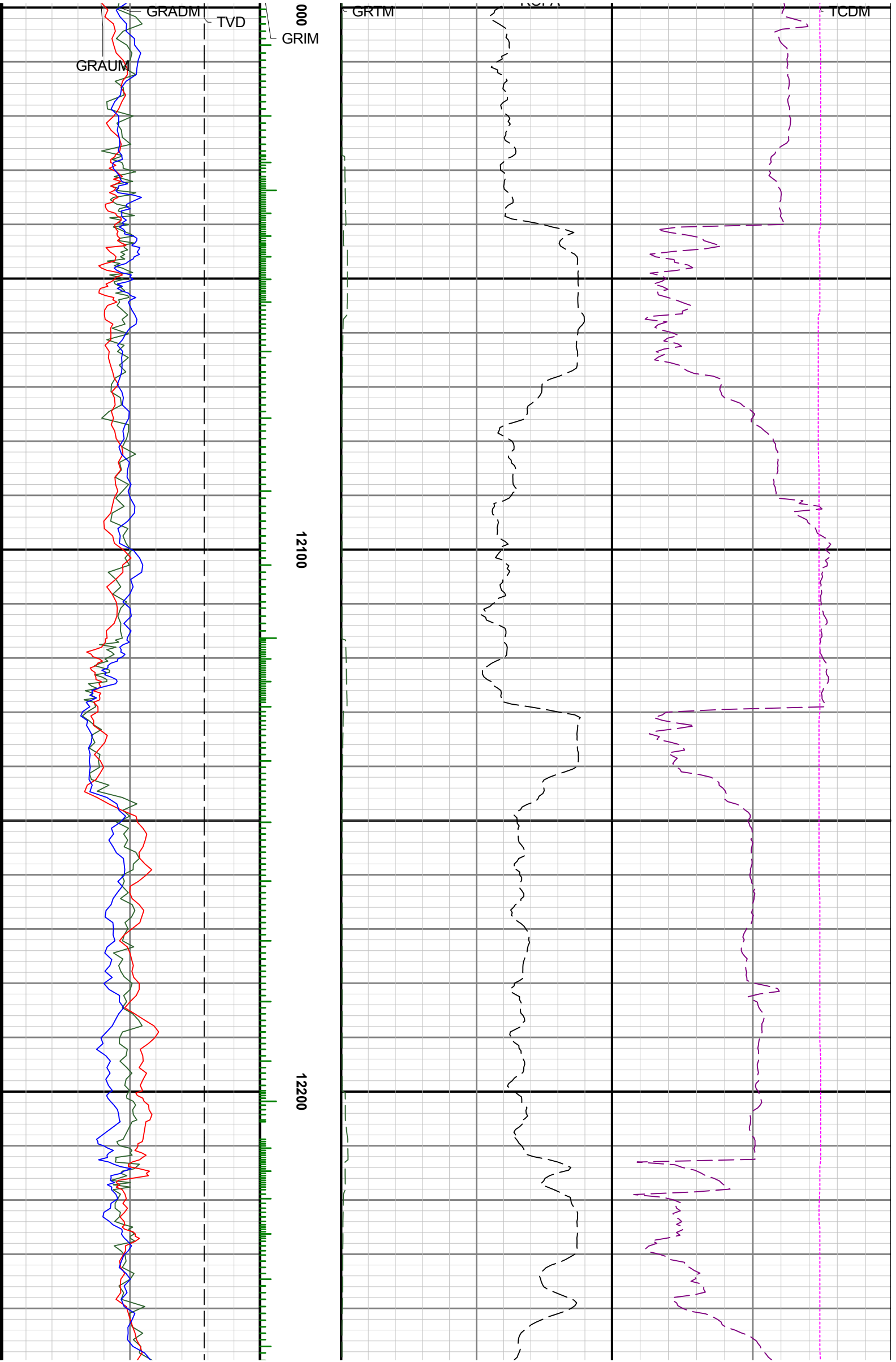


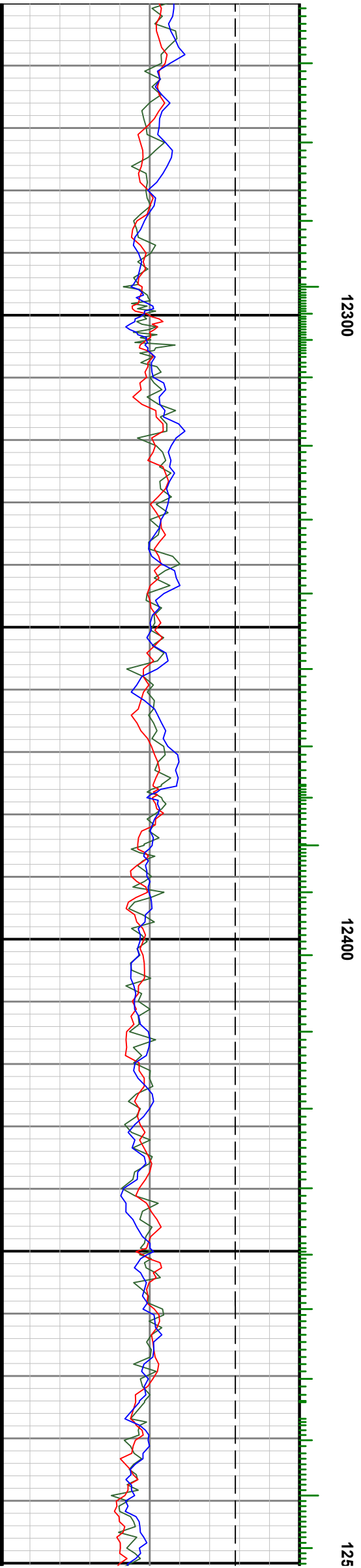
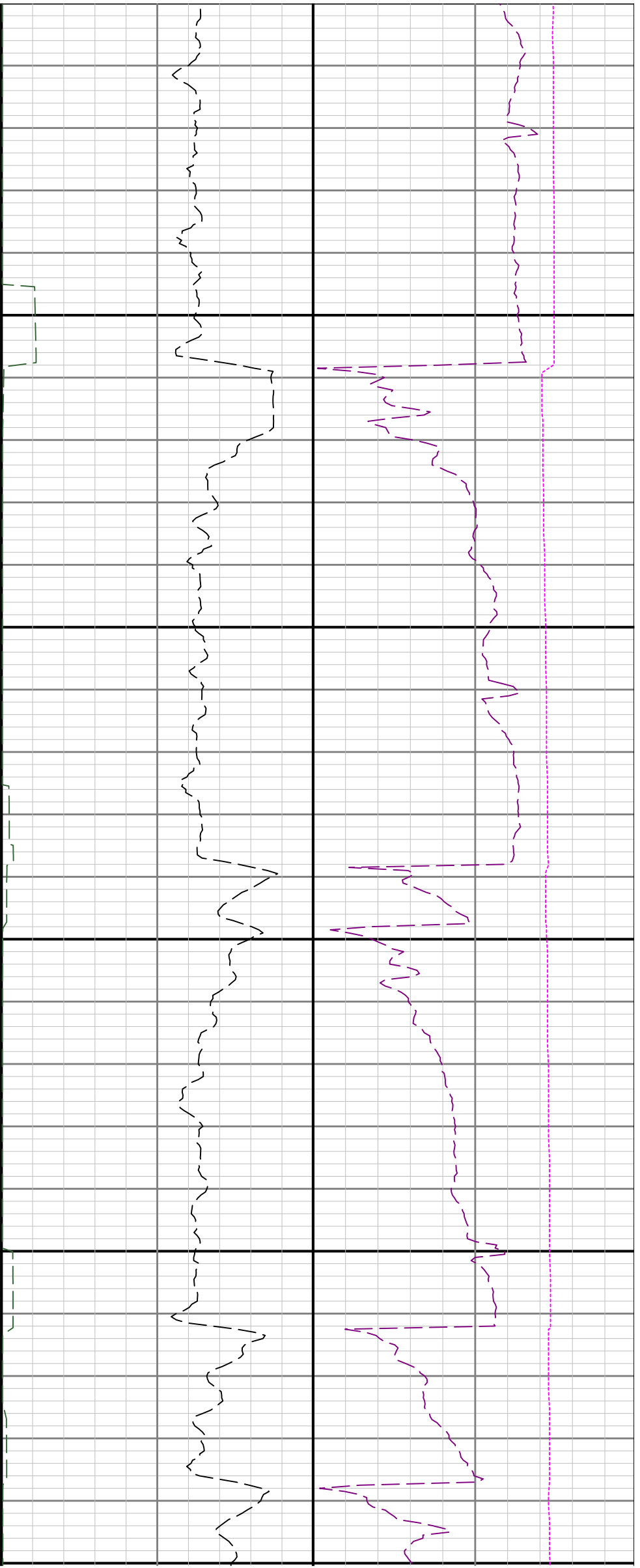


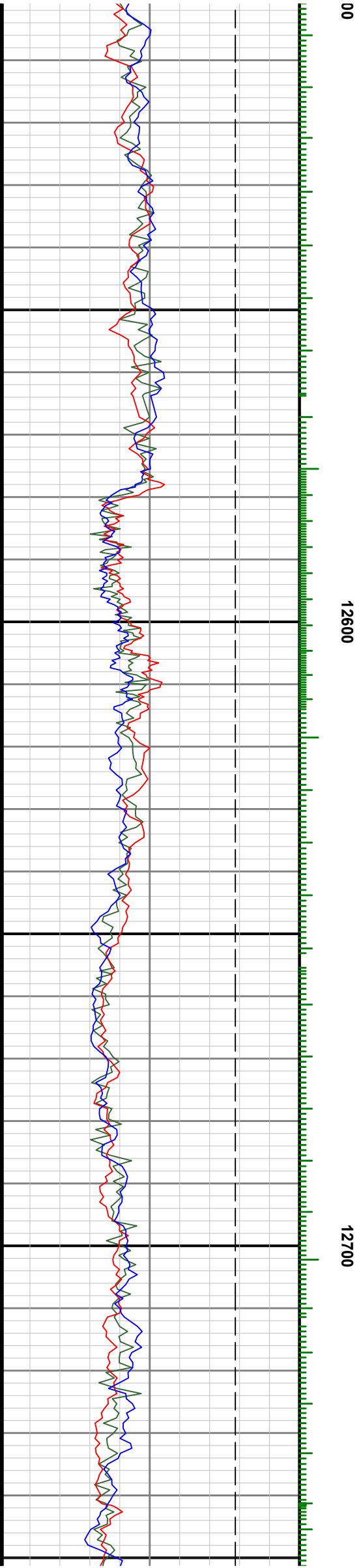
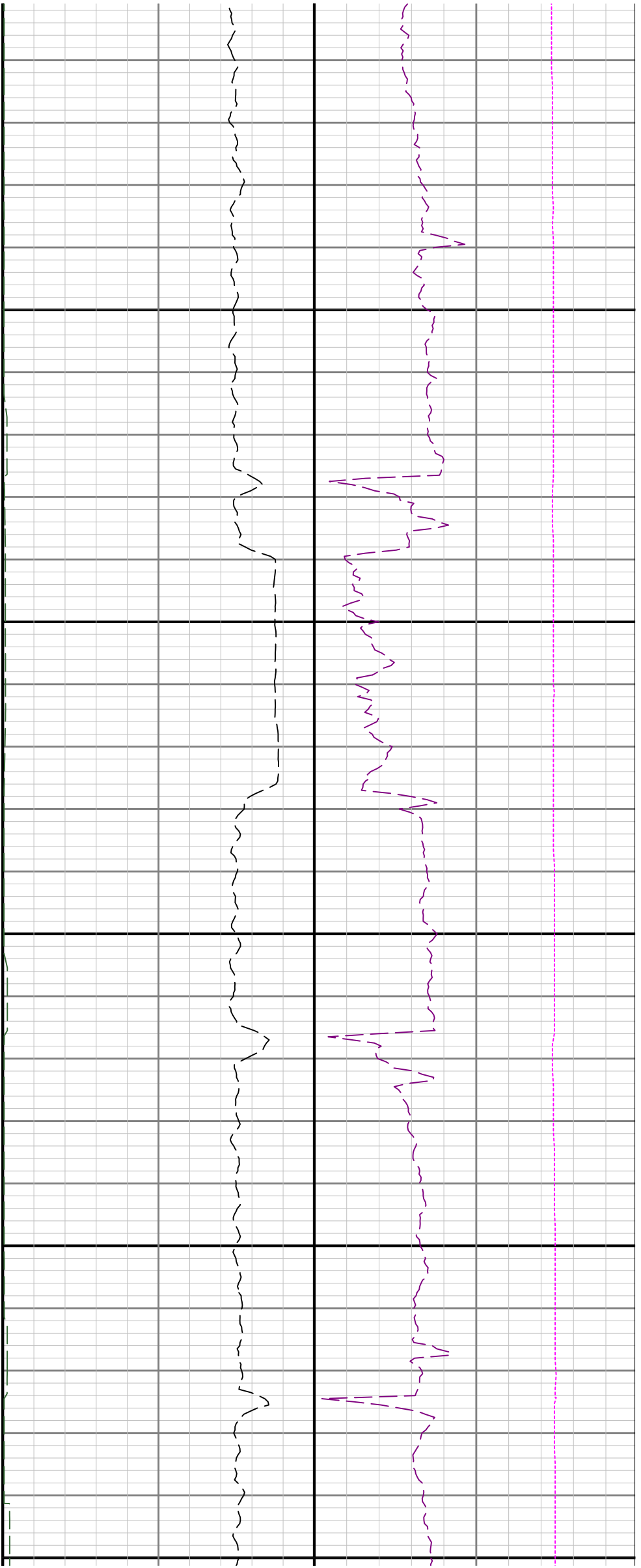


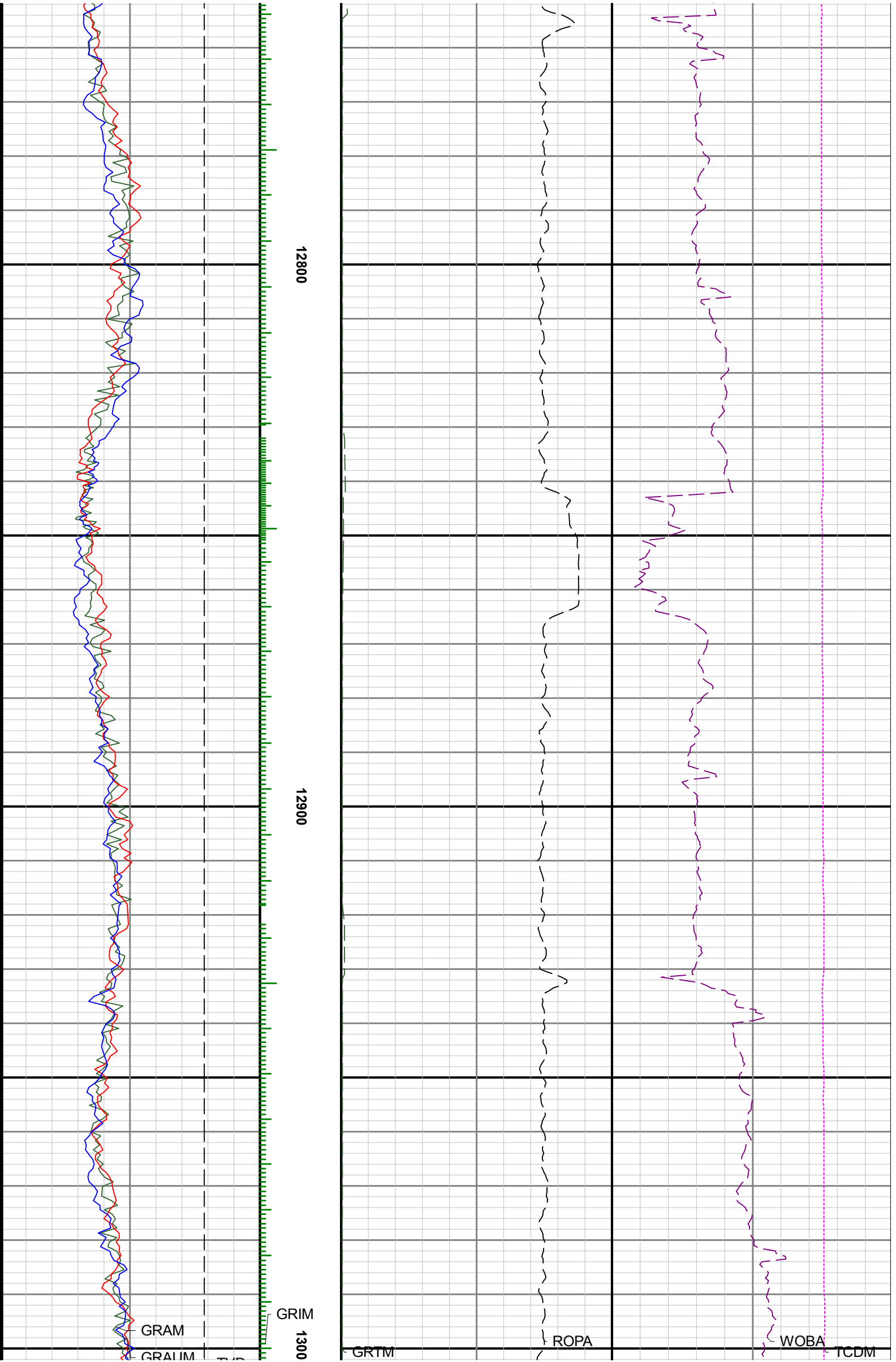


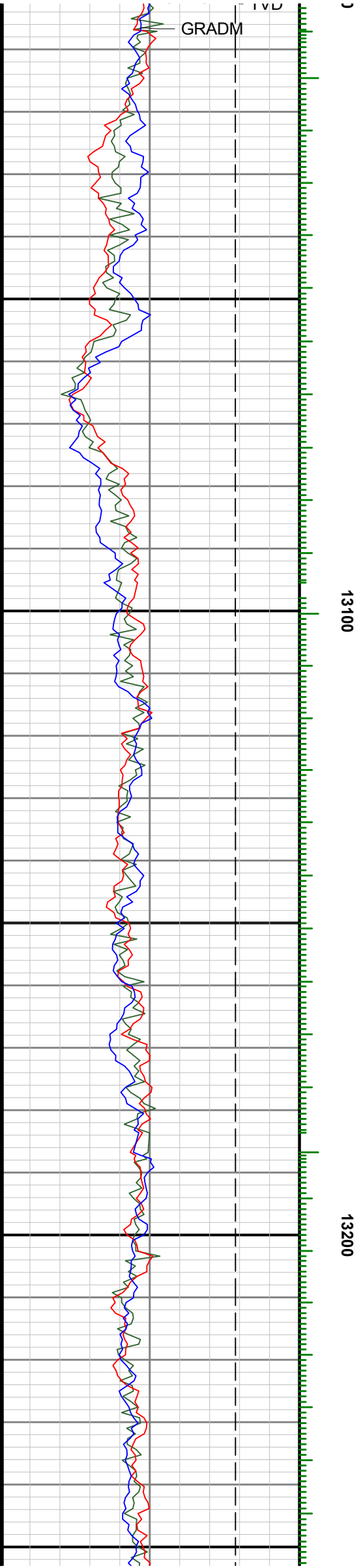
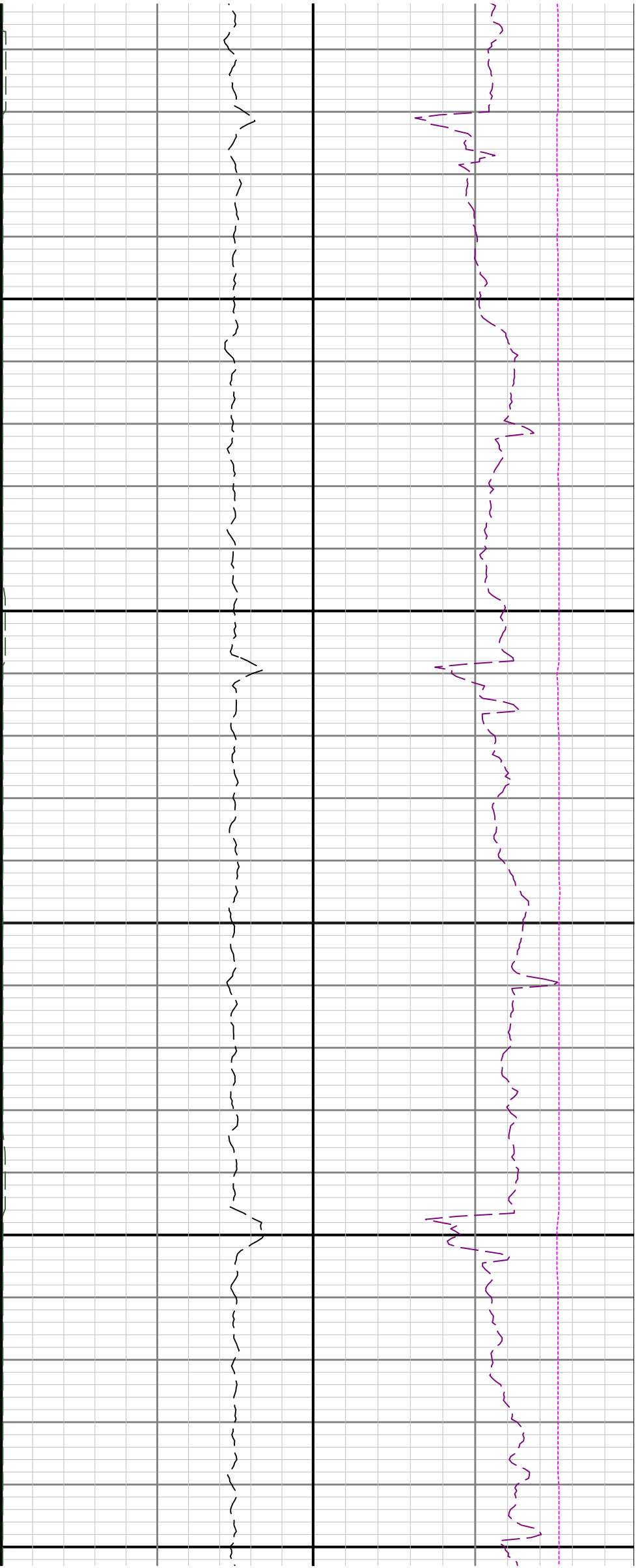


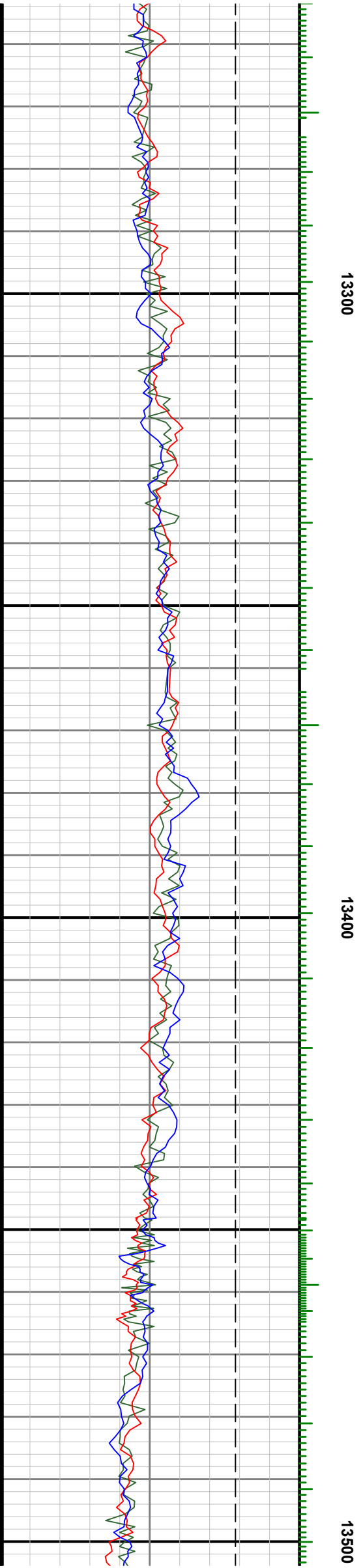
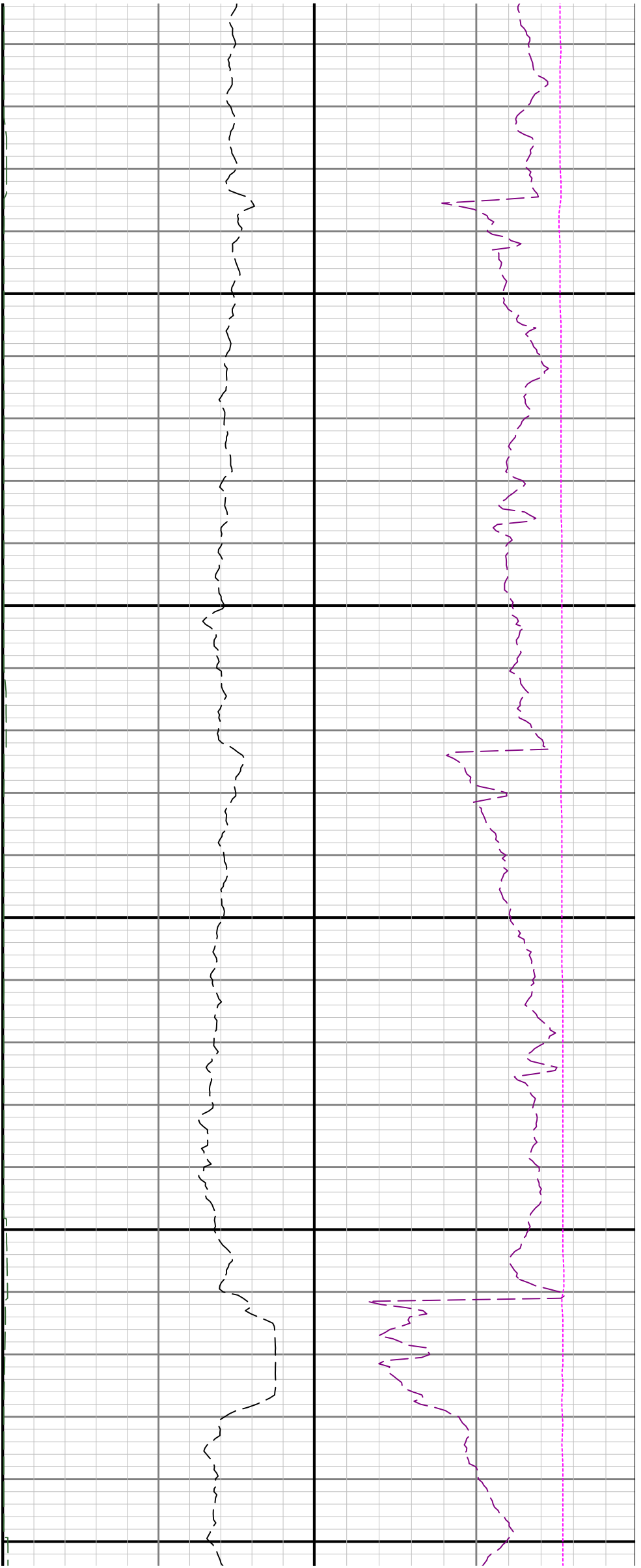


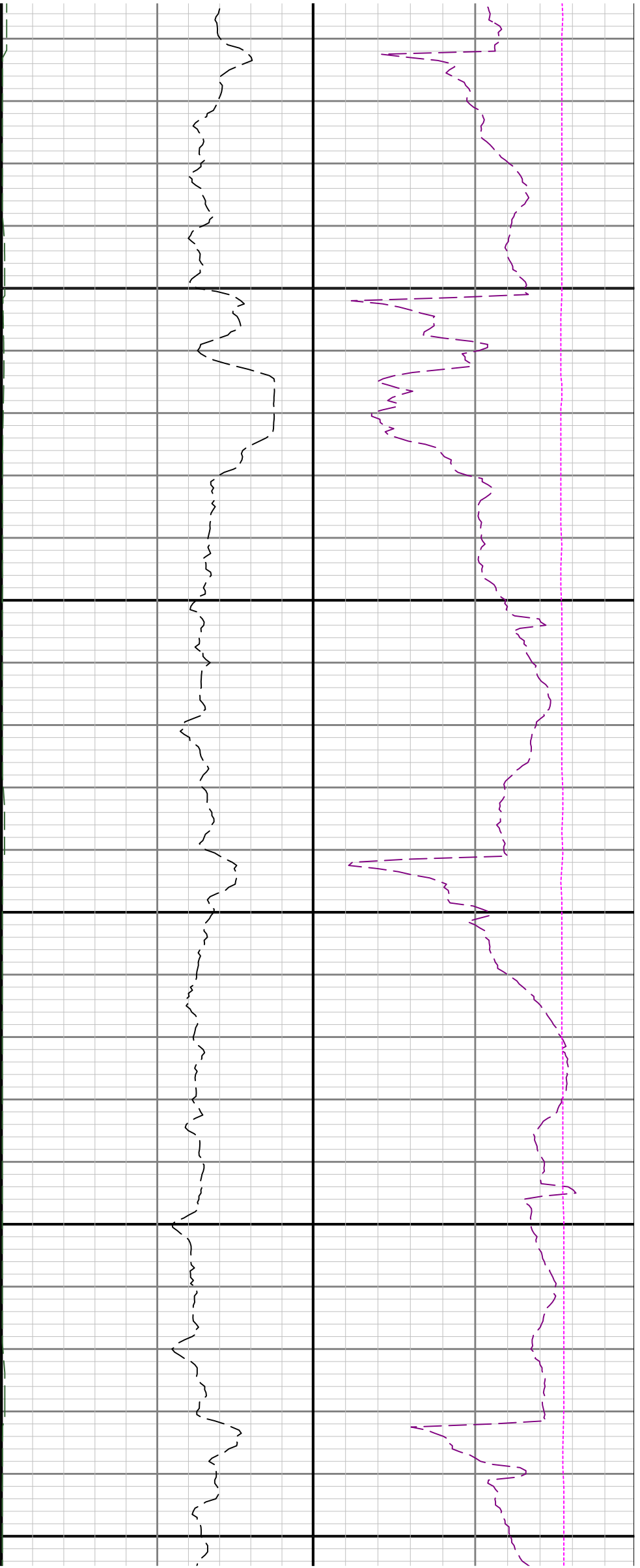






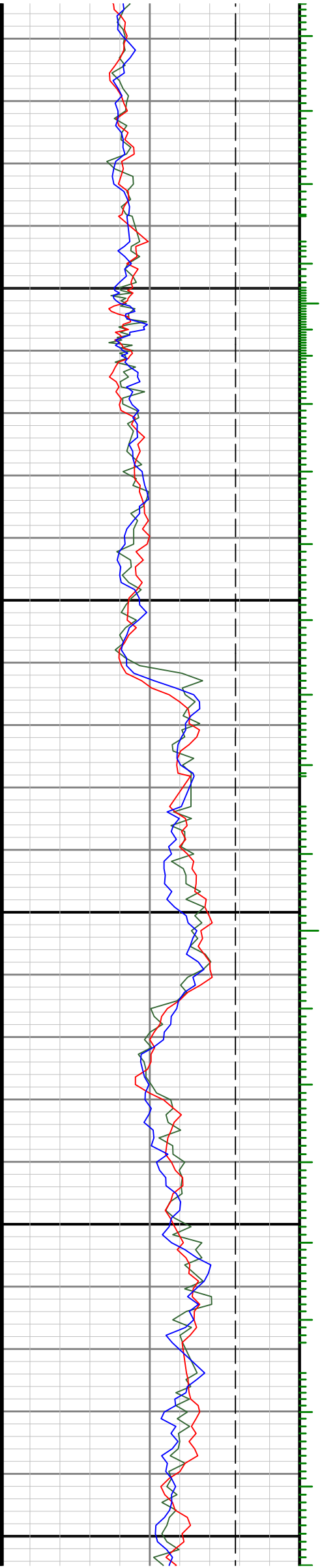


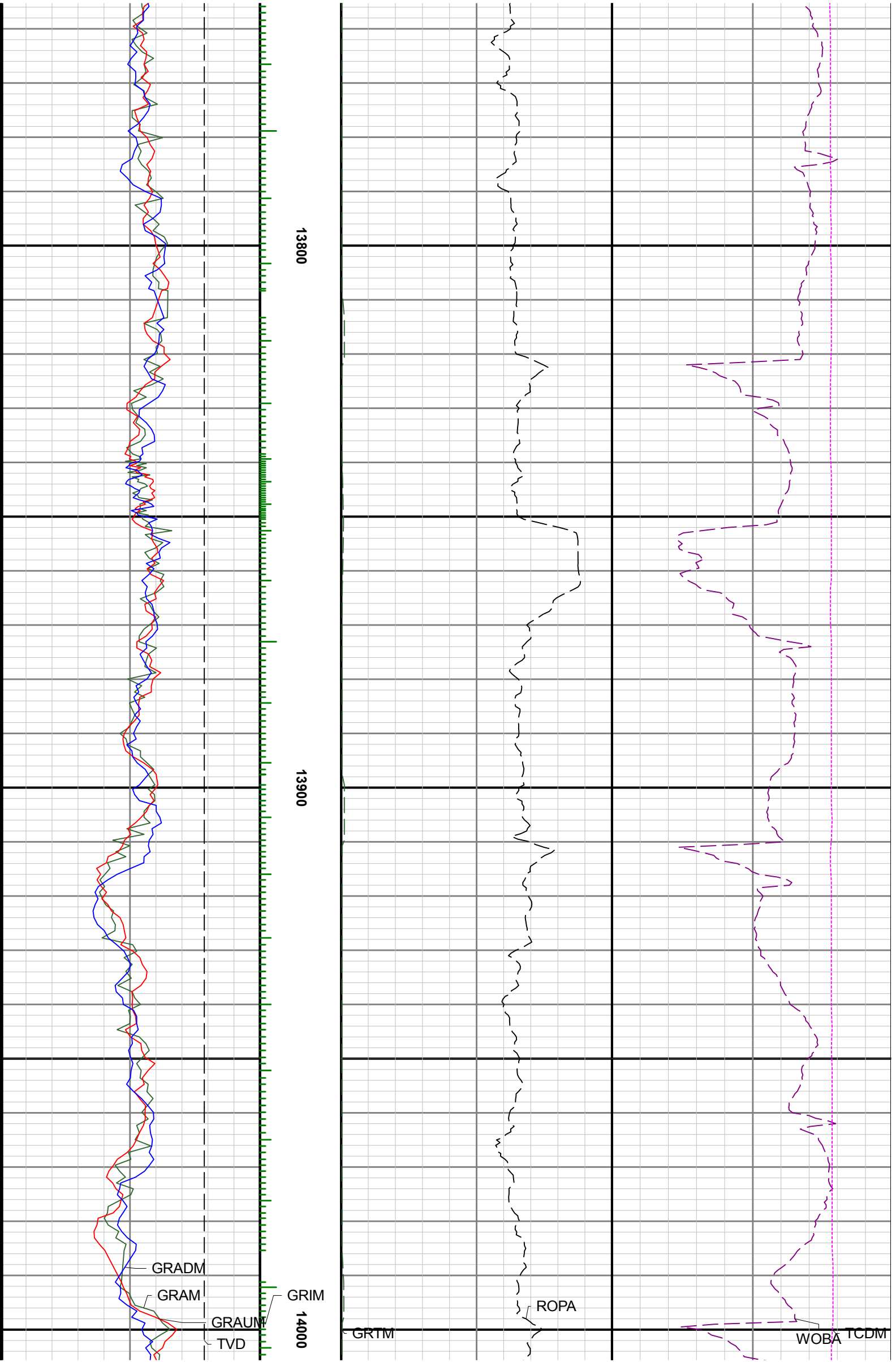


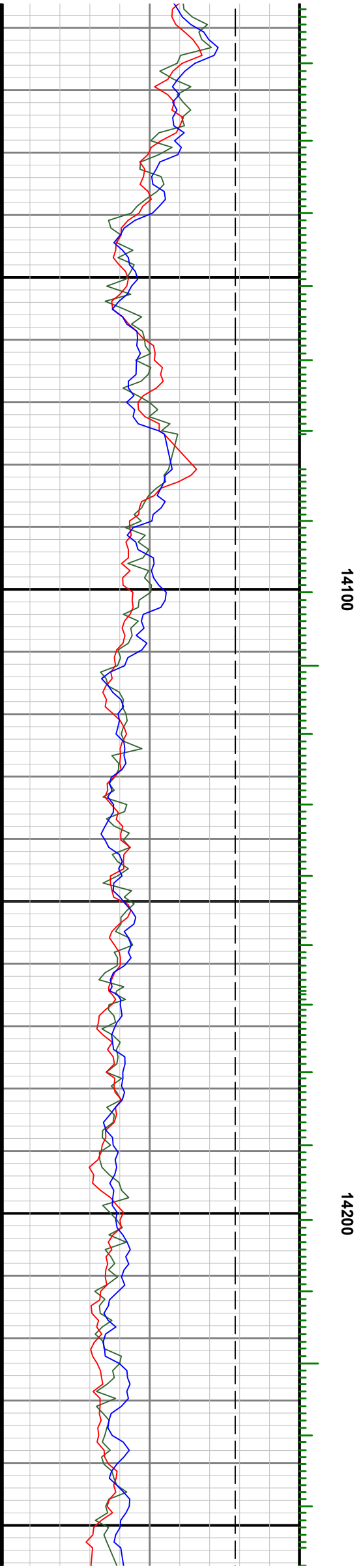
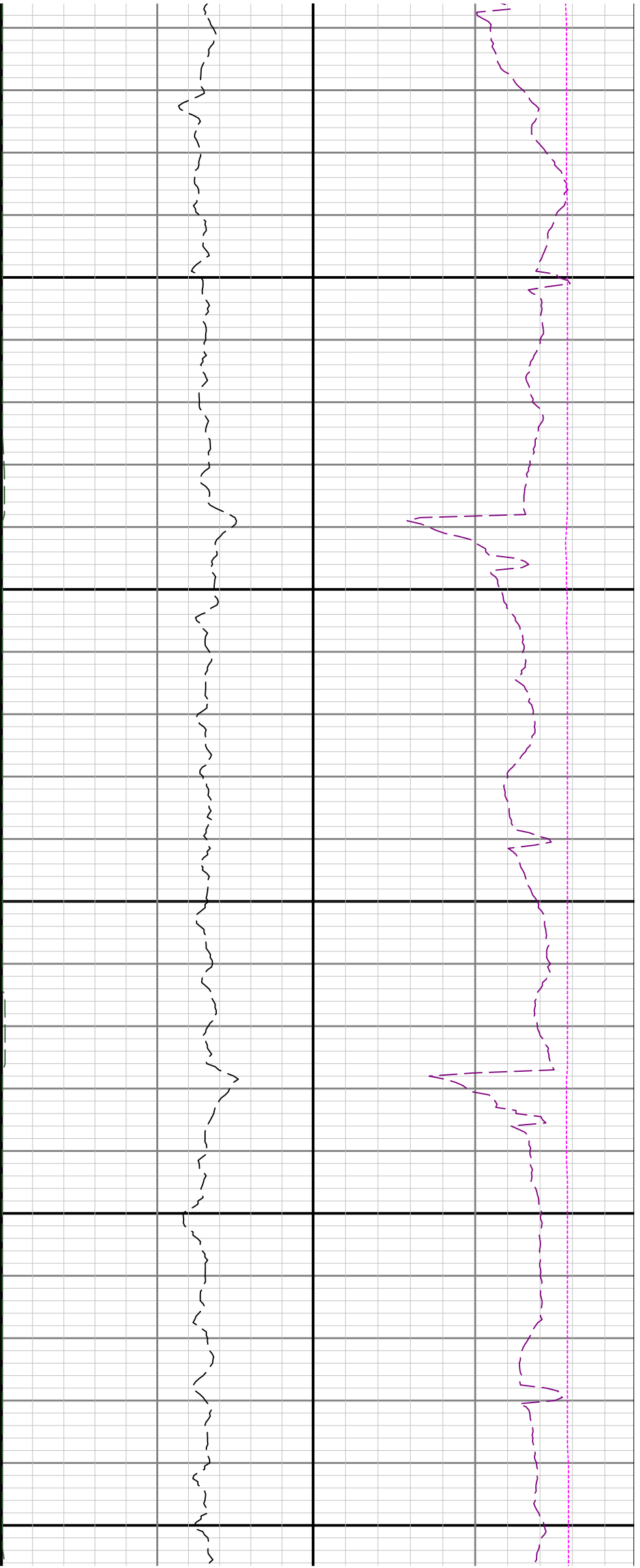


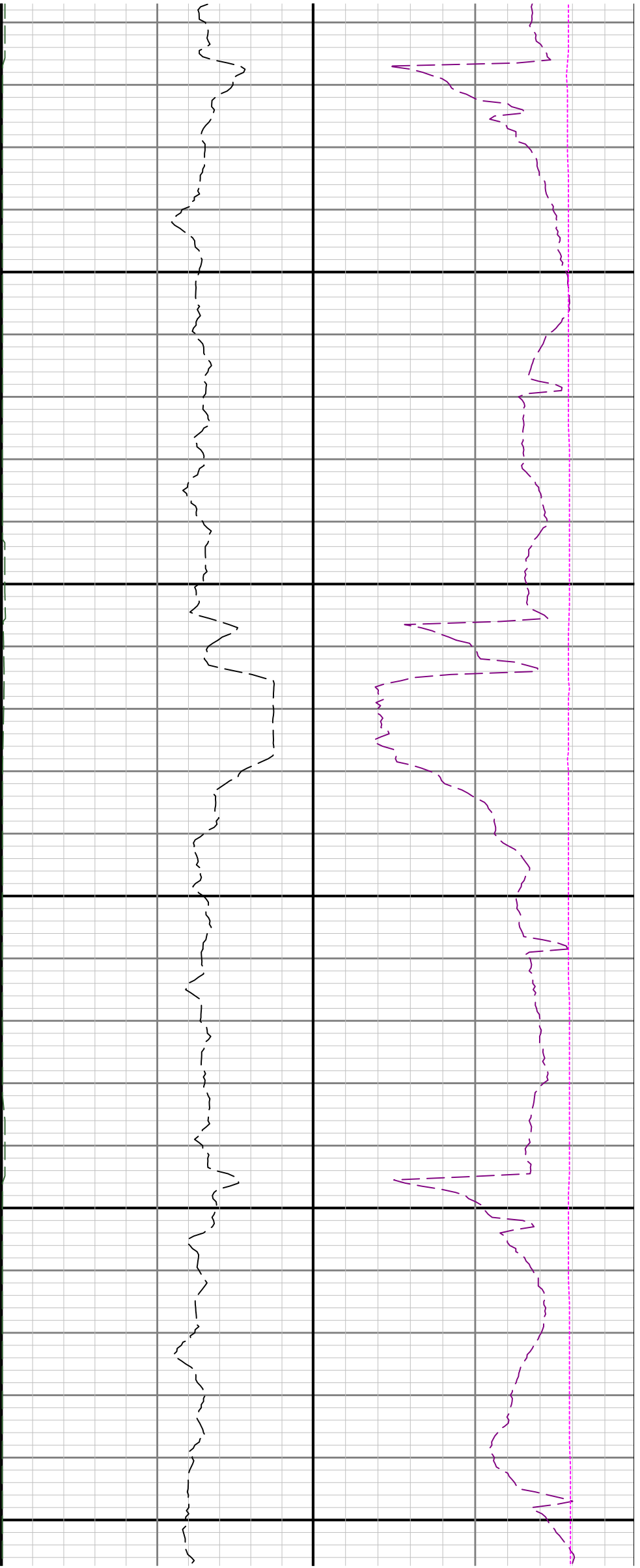
13600

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