

part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and obligations shall be governed by Baker Hughes Incorporated's Worldwide Terms and Conditions."

Log Run Summary

| Run No | Bit Run No. | Bit Size (in) | Bit Type | Bit Gauge Length (in) | Assembly Type | Logged Interval | | Bit Depth Interval | | Date / Time | | Circ. Hours (h) |
|--------|-------------|---------------|----------|-----------------------|---------------|-----------------|-------------|--------------------|---------|---------------|-------------|-----------------|
| | | | | | | Top (ft) | Bottom (ft) | From (ft) | To (ft) | Start Logging | End Logging | |
| | | | | | | 1 | 1 | 8.500 | PDC | 2.00 | Motor | |

Crew

| Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite |
|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-----------------|-----------------|
| Chad Hough | 2015-12-24 | 2015-12-28 | Matthew Leopold | 2015-12-24 | 2015-12-28 | Michael Cleary | 2015-12-24 | 2015-12-28 |
| Ryan Kielian | 2015-12-24 | 2015-12-28 | | | | | | |

Mud Properties Record

| Date / Time | Run No. | Measured Depth (ft) | Mud Type | Density (ppg) | Viscosity (cP) | pH | Fluid Loss (cm3) | Oil / Water | Source | Total Chlorides (ppm) | K+ (%) |
|------------------|---------|---------------------|---------------|---------------|----------------|-----|------------------|-------------|------------|-----------------------|--------|
| 2015-12-25 06:02 | 1 | 1890.00 | Oil Based Mud | 9.2 | 22 | N/A | N/A | 59.0/32.0 | Active Pit | 54000 | 0.00 |
| 2015-12-26 20:51 | 1 | 10054.00 | Oil Based Mud | 9.6 | 19 | N/A | N/A | 61.0/27.5 | Active Pit | 50000 | 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 | NaviGamma | 13022836 | Gamma (single) | 10.90 | 41.25 | 6.750 | 2.750 |
| 1 | NaviGamma | 13022836 | Directional (mag) | 14.31 | 44.66 | 6.750 | 2.750 |
| 1 | NaviGamma | 13022836 | VSS | 14.31 | 44.66 | 6.750 | 2.750 |

Comments

- Baker Hughes run 1 utilized a 6.75 inch NaviGamma (Directional and Gamma Ray) tool ran behind an 8.5 inch bit with a steerable assembly from 1904 to 12795 feet MD (1885 to 7109 feet TVD).
- A sliding indicator is shown on the left side of track 1 as a heavy line. The indicator has been shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

Remarks

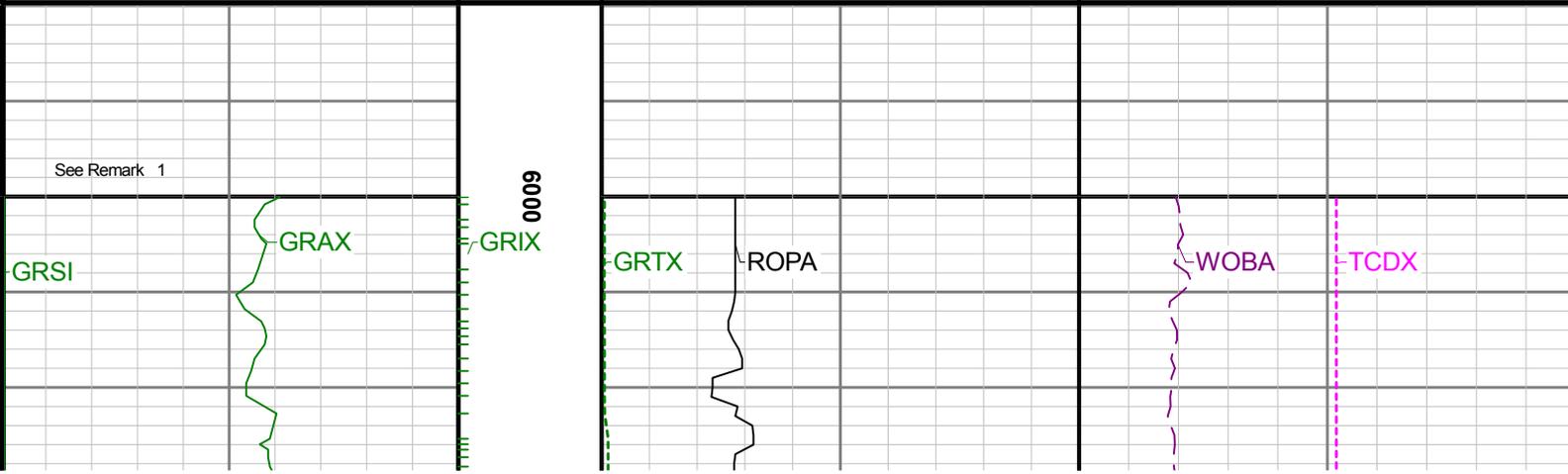
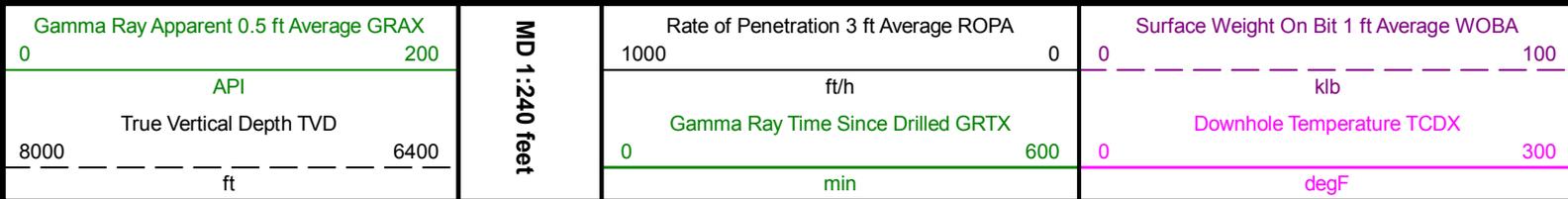
| Number | Measured Depth (ft) | Hole Section (in) | Run No. | Remark |
|--------|---------------------|-------------------|---------|--------|
|--------|---------------------|-------------------|---------|--------|

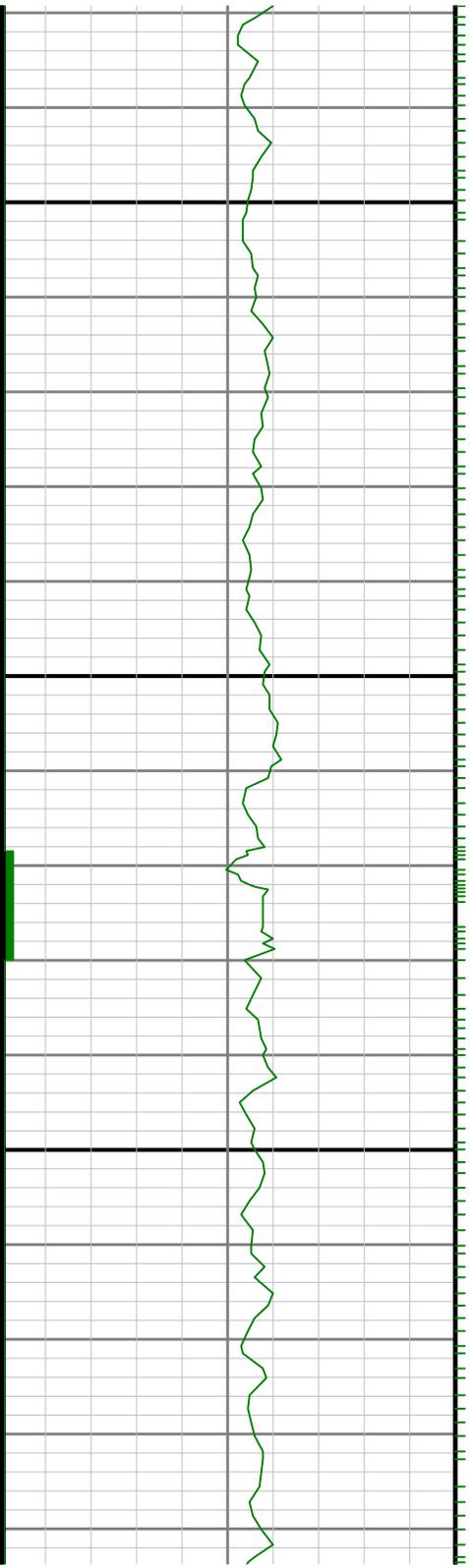
| | (ft) | (in) | | |
|---|----------|-------|---|---|
| 1 | 5995.00 | 8.500 | 1 | The interval from Surface to 6000 feet MD (16 to 5800 feet TVD) was not logged due to directional only services required in the vertical section. |
| 2 | 12760.00 | 8.500 | 1 | The interval from 12754 to 12795 feet MD (7109 feet TVD) has no GRAX, GRIX or GRTX due to the Gamma Ray sensor offset to bit. |

Curve Mnemonics

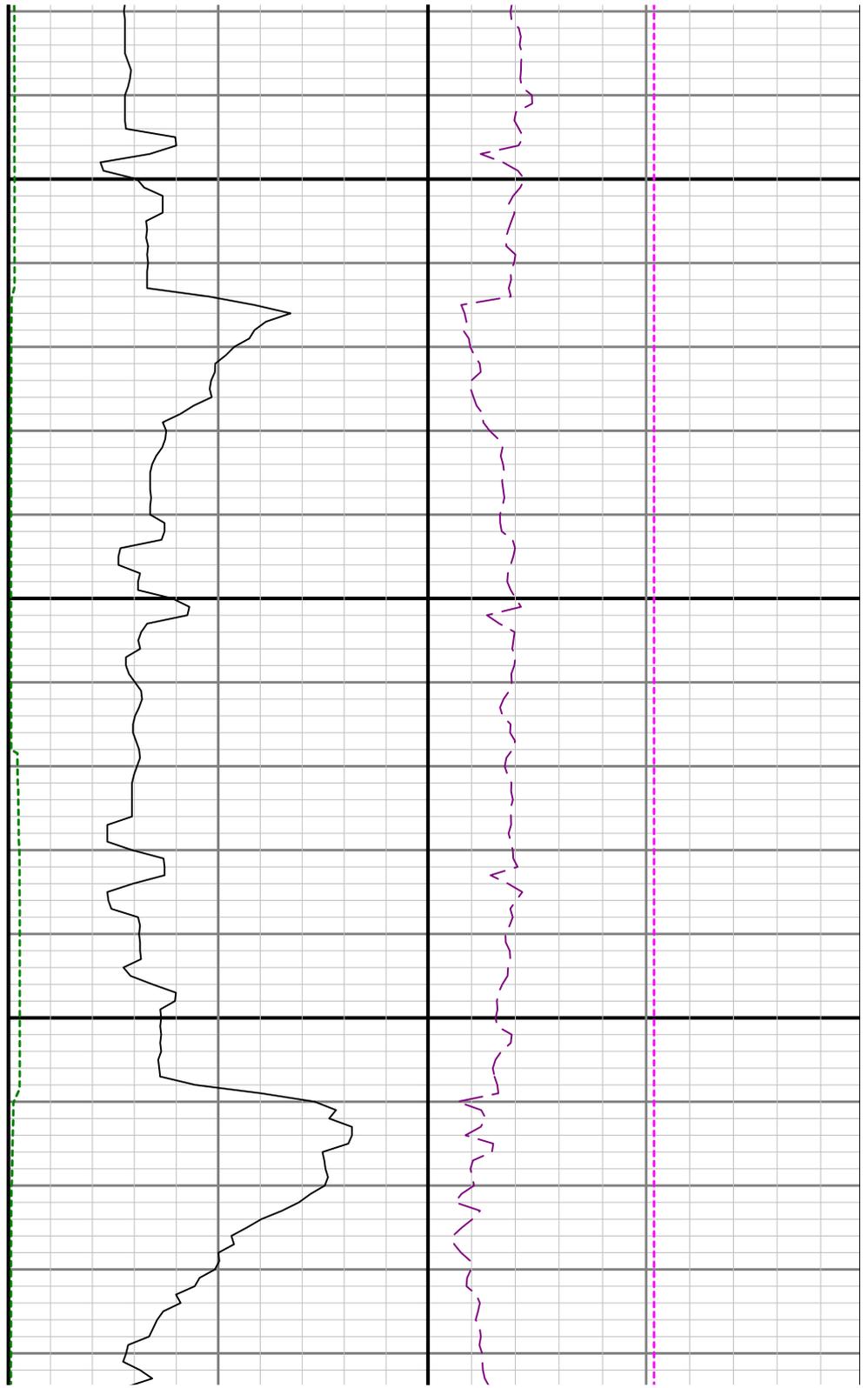
| Presented Curves | Description | Units |
|------------------|-------------------------------------|----------|
| ROPA | Depth Averaged ROP 3 ft Average | ft/h |
| GRAX | Gamma Ray - Apparent 0.5 ft Average | API |
| GRIX | Gamma Ray - Data Point Indicator | unitless |
| GRTX | Gamma Time Since Drilled | min |
| GRSI | Sliding Indicator Flag | unitless |
| TCDX | Downhole Temperature | degF |
| TVD | True Vertical Depth | ft |
| WOBA | Weight On Bit, Average 1 ft Average | klb |

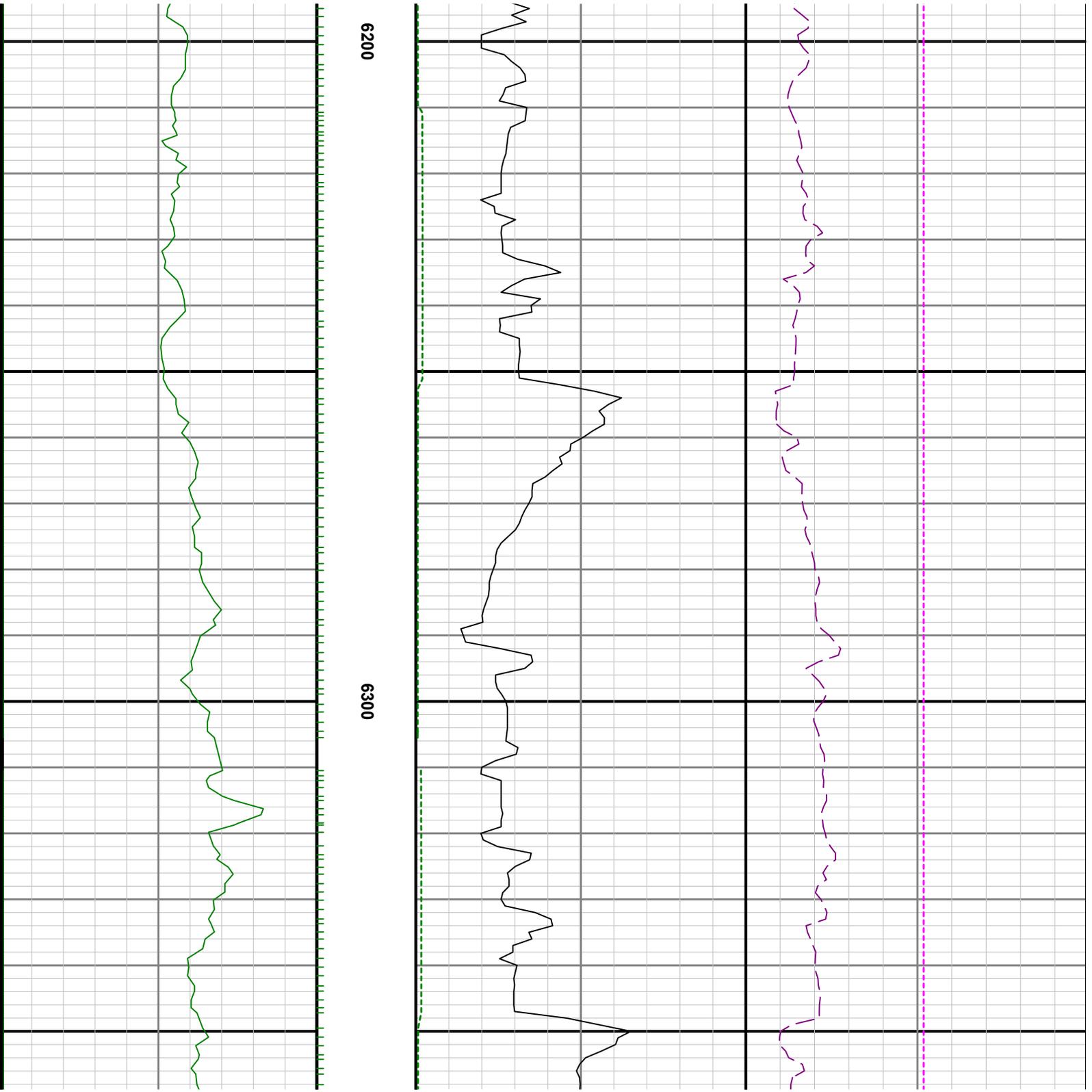
| | | | | |
|--|-----------------|-------------------|------------------|-------------------------|
|  | Company | Anadarko | | |
| | Well | ALVIN 1N-29HZ | | |
| | Interval | Date From: | 2015-12-25 22:57 | Top: 6000.00 |
| | Created | Date To: | 2015-12-27 11:01 | Bottom: 12795.00 |
| | | Created | 2015-12-27 11:46 | |

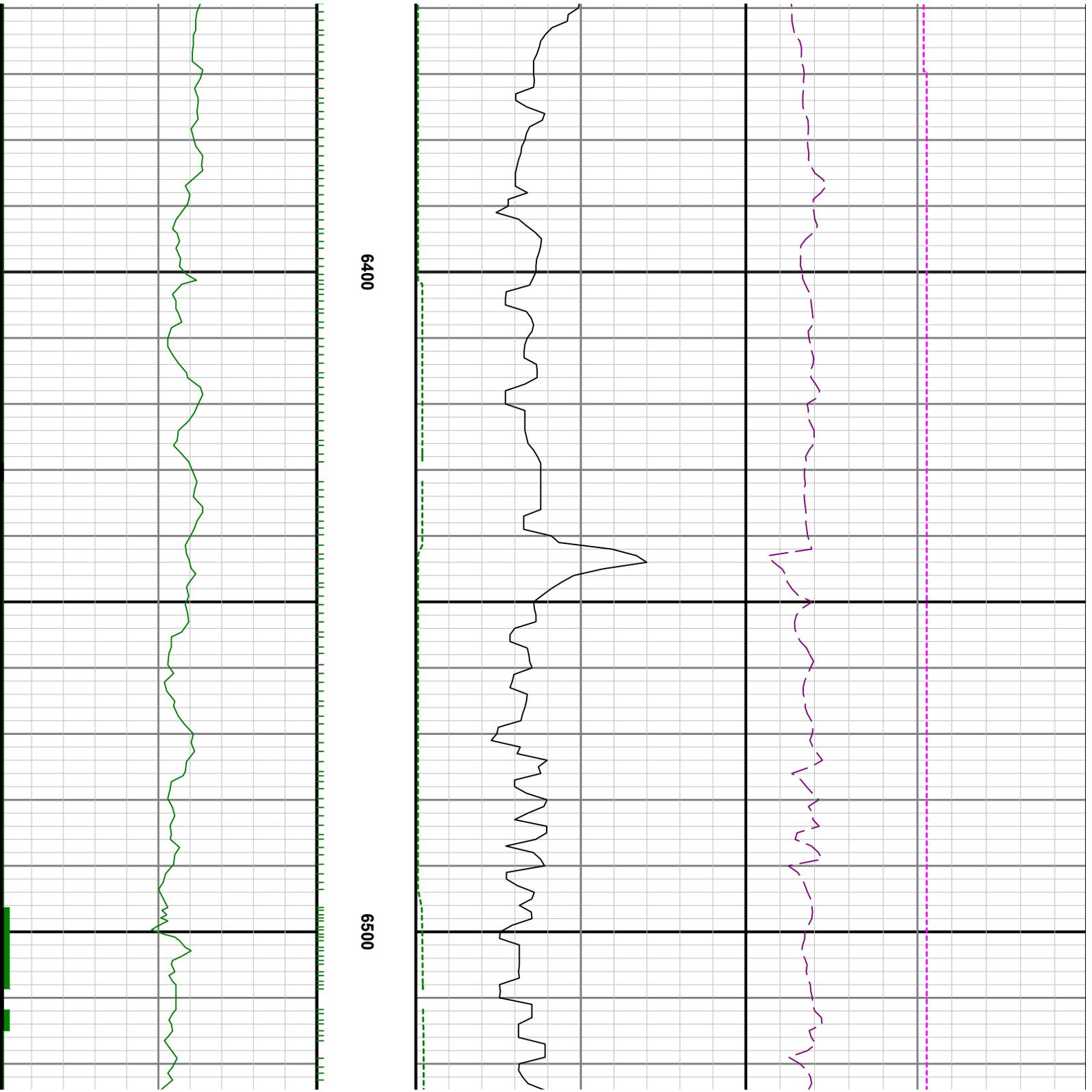


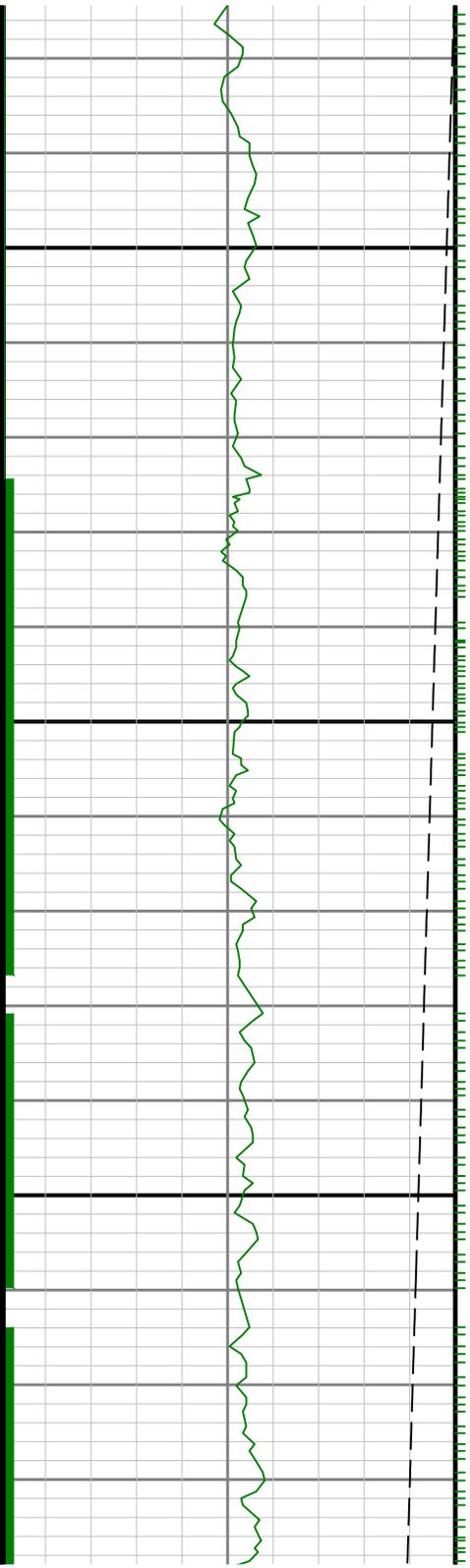


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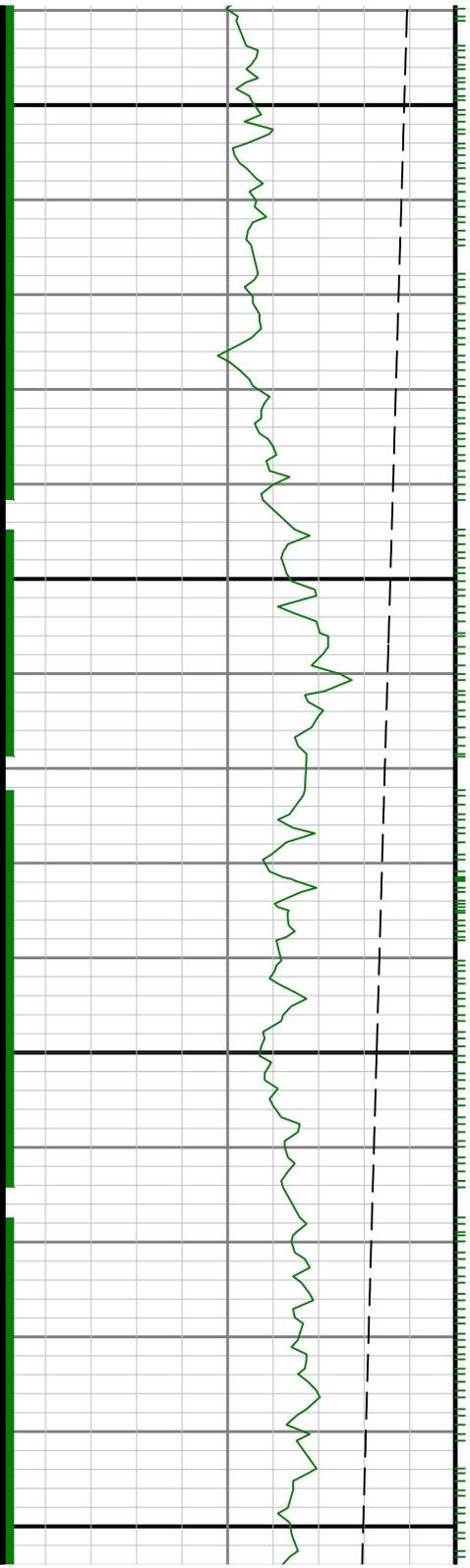






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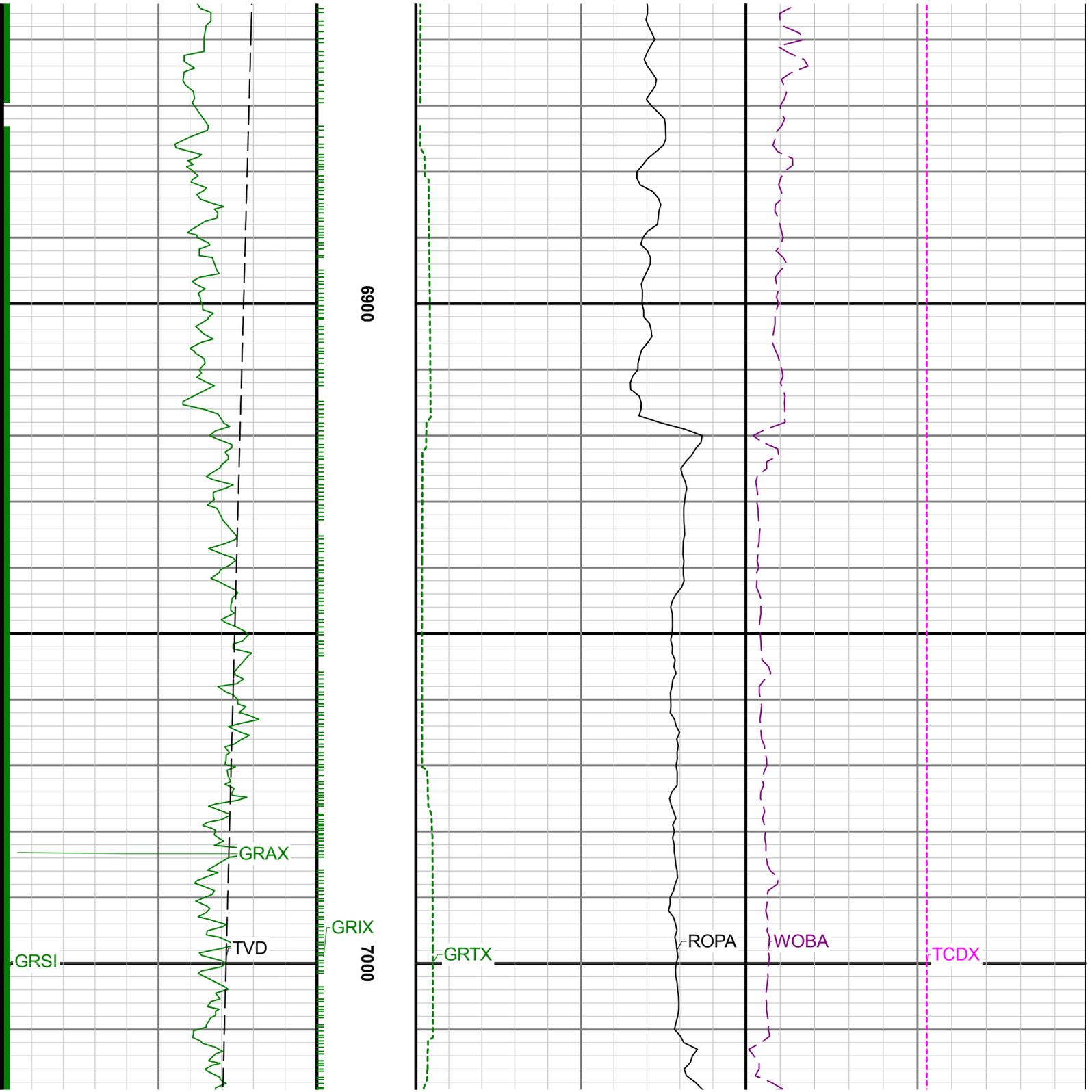


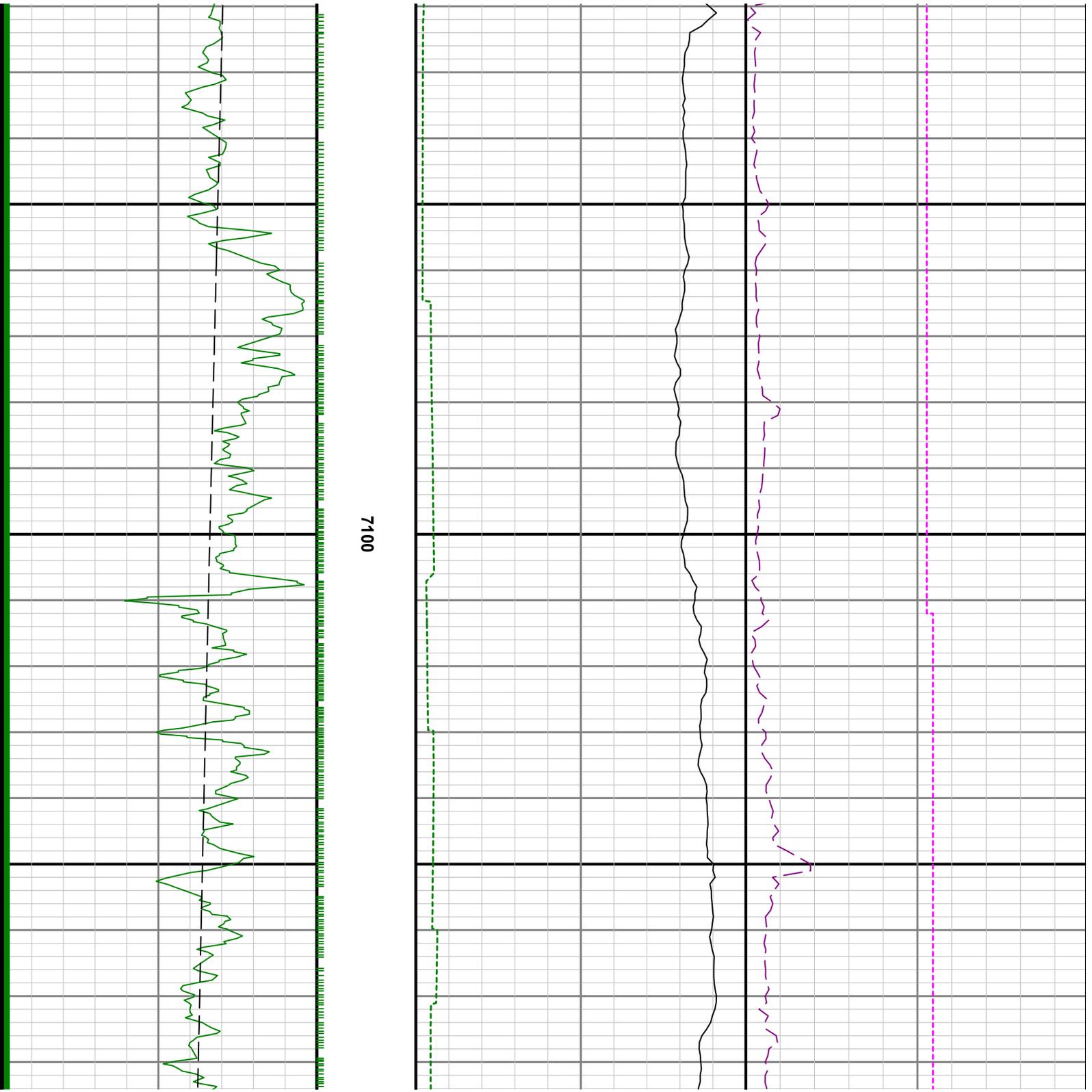


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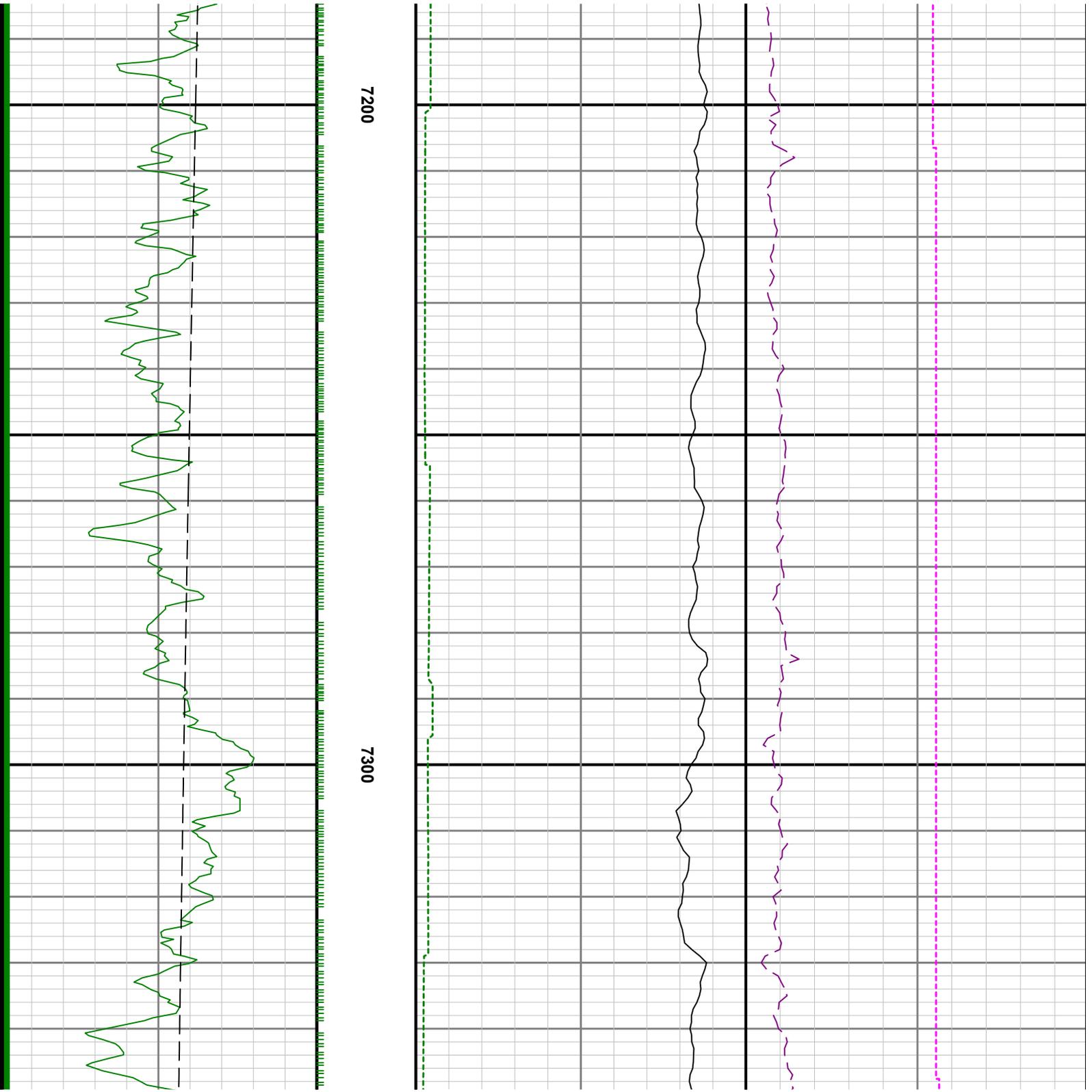
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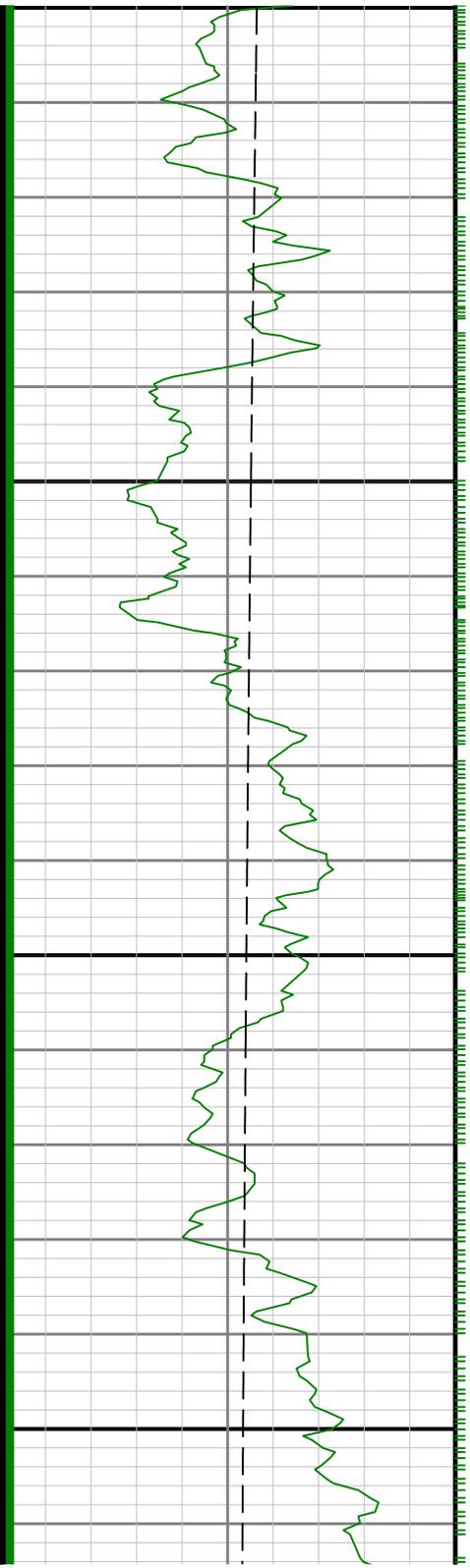






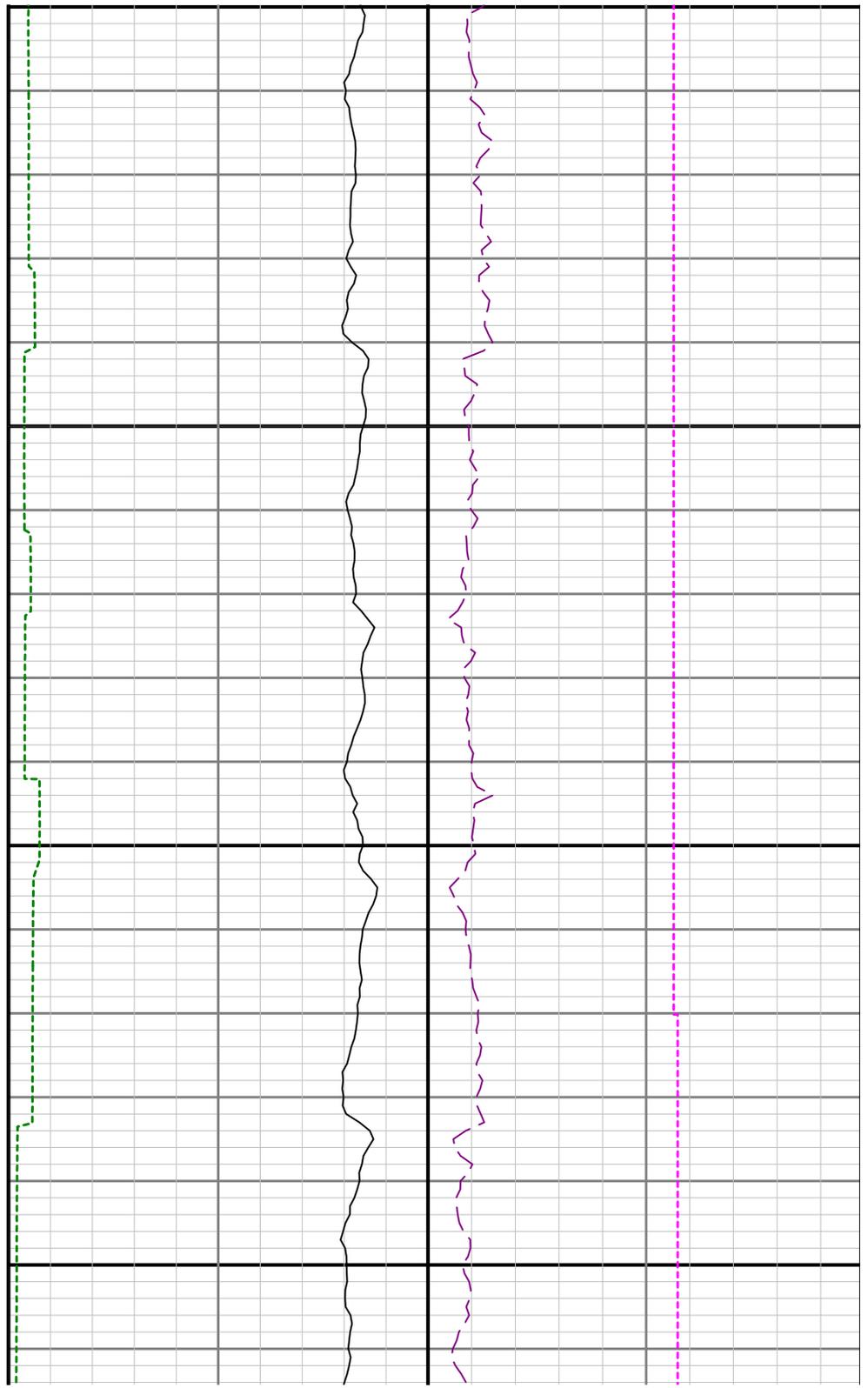
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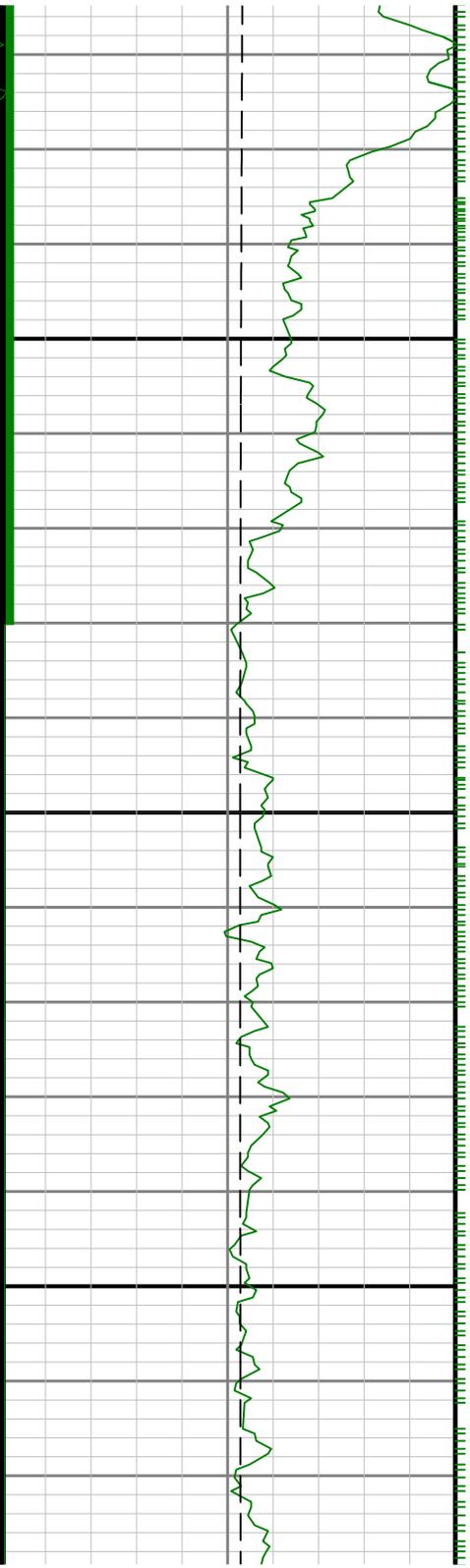




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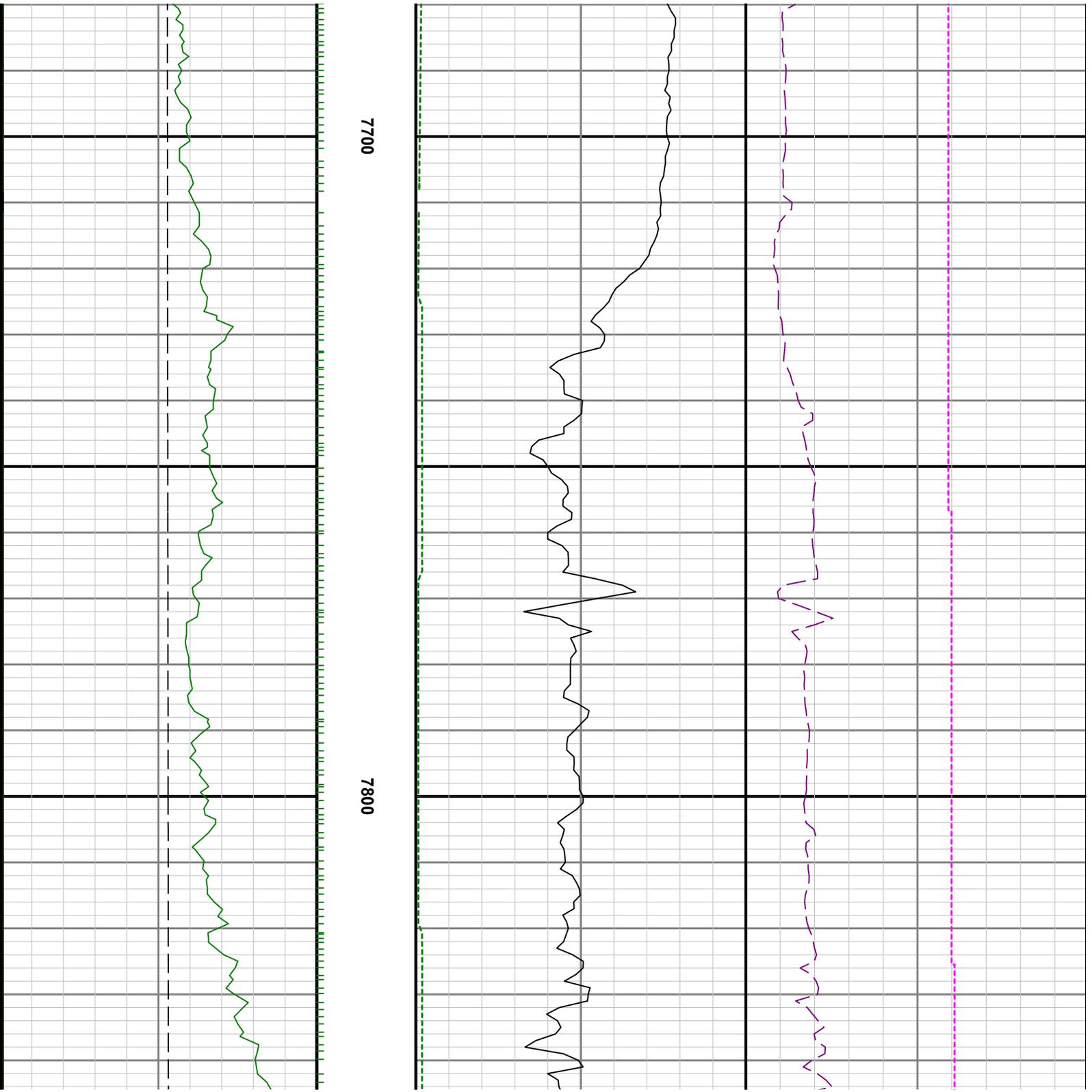
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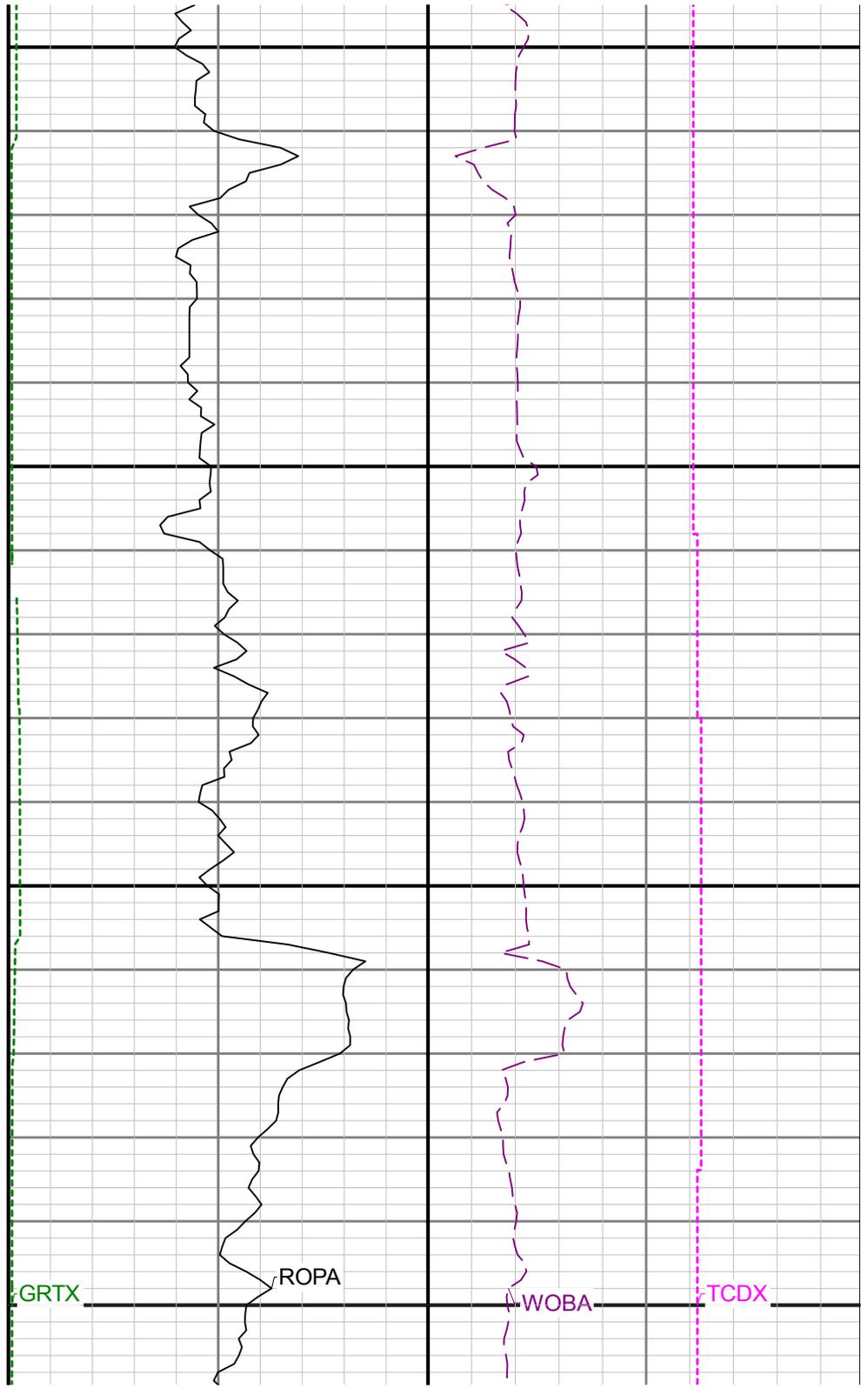
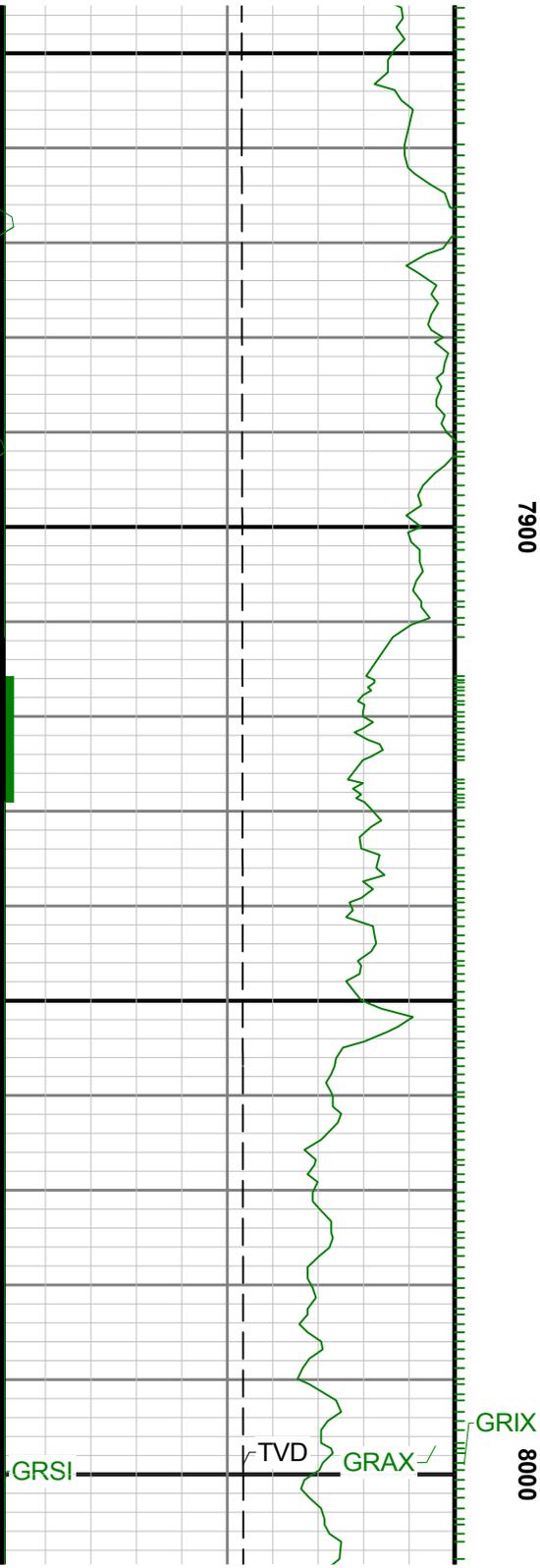


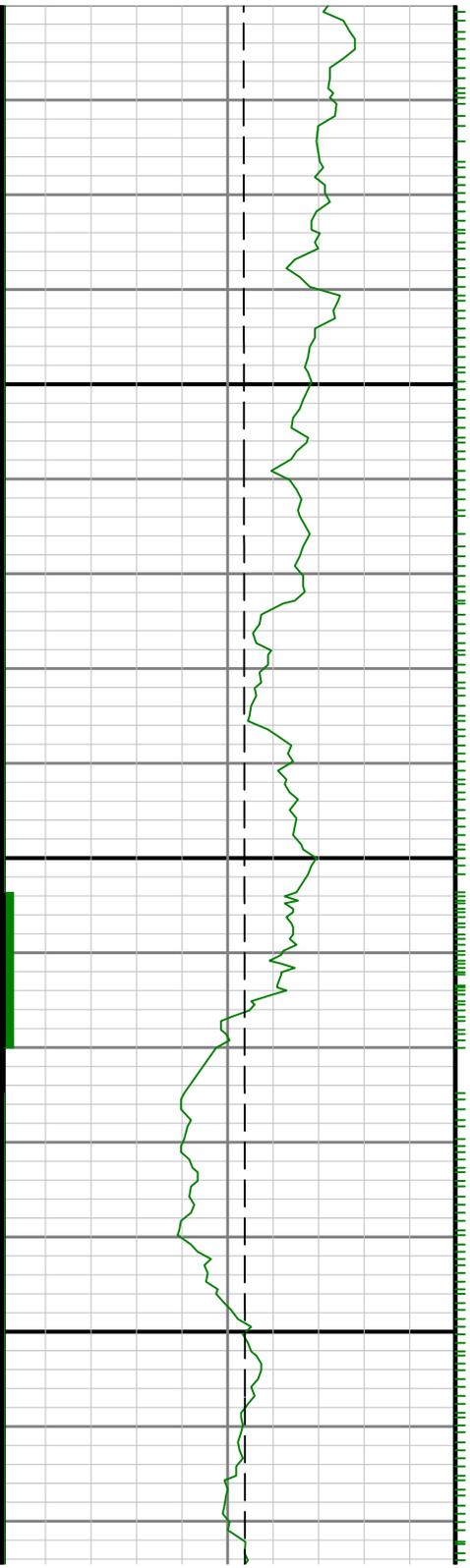


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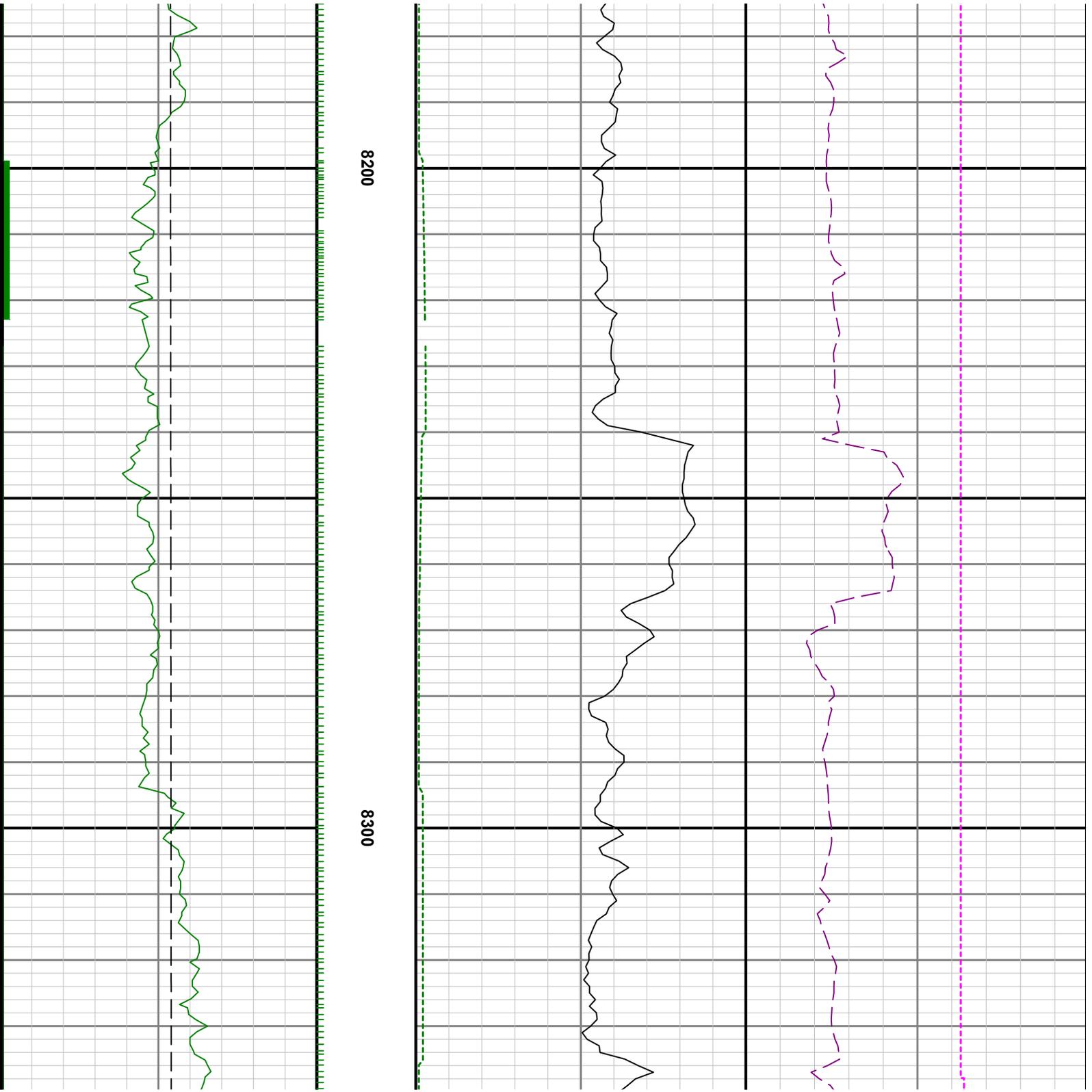


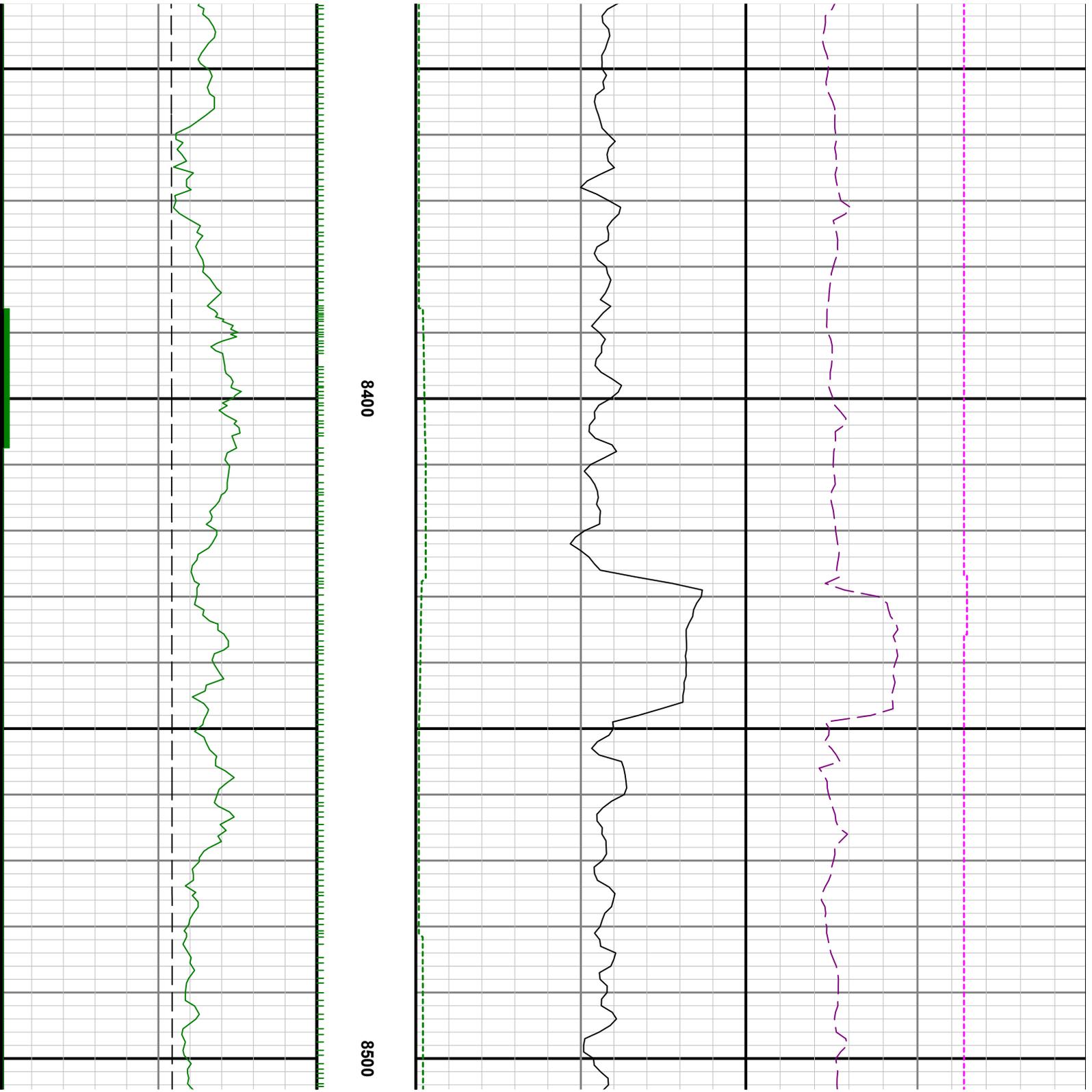


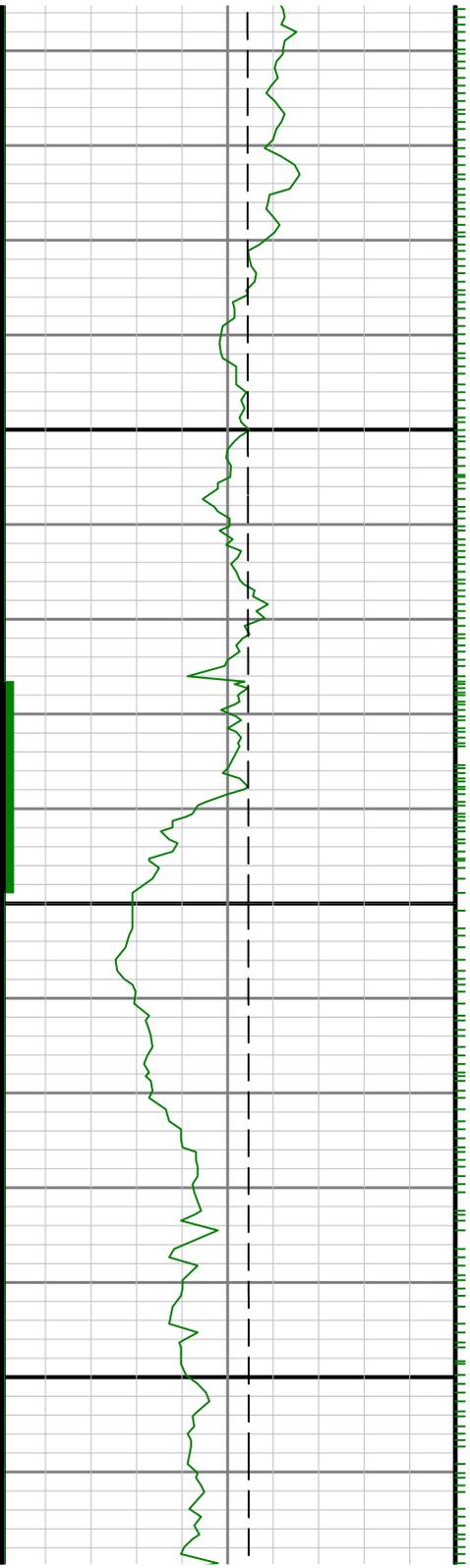


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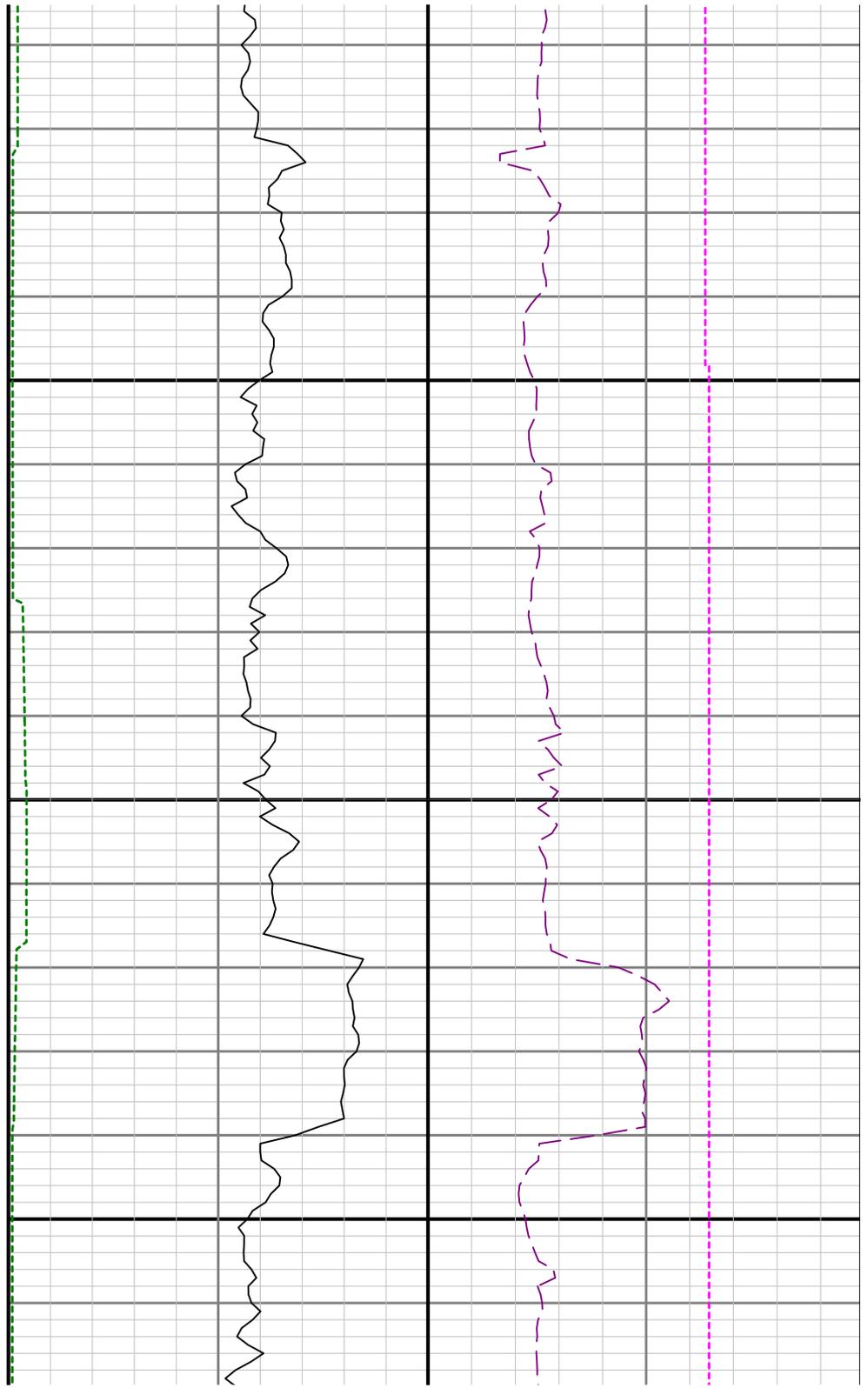


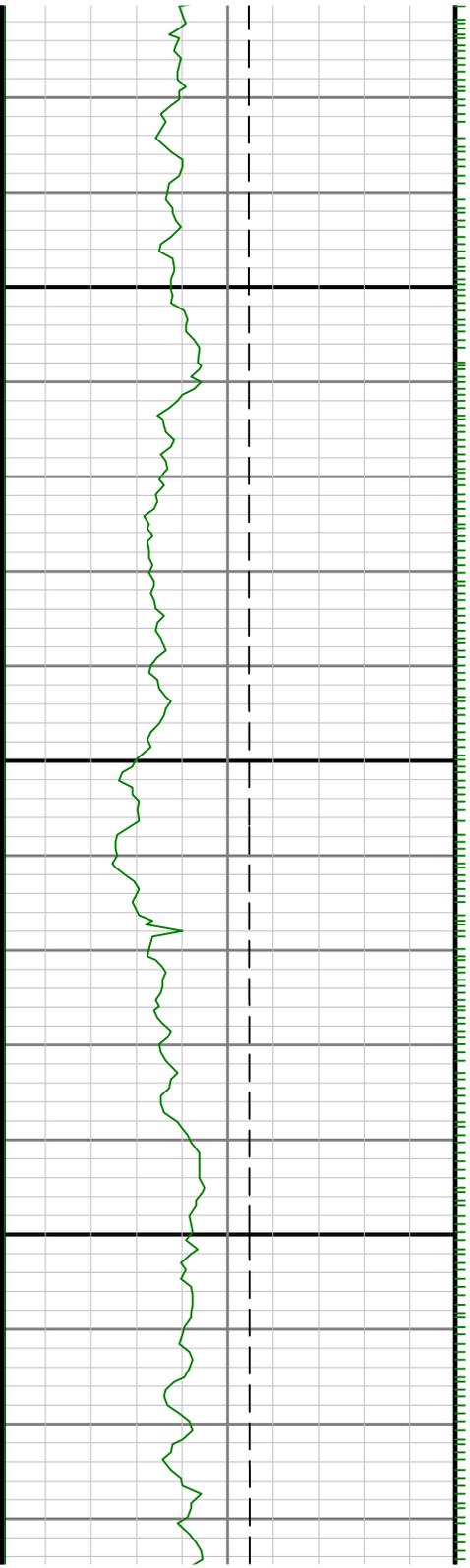






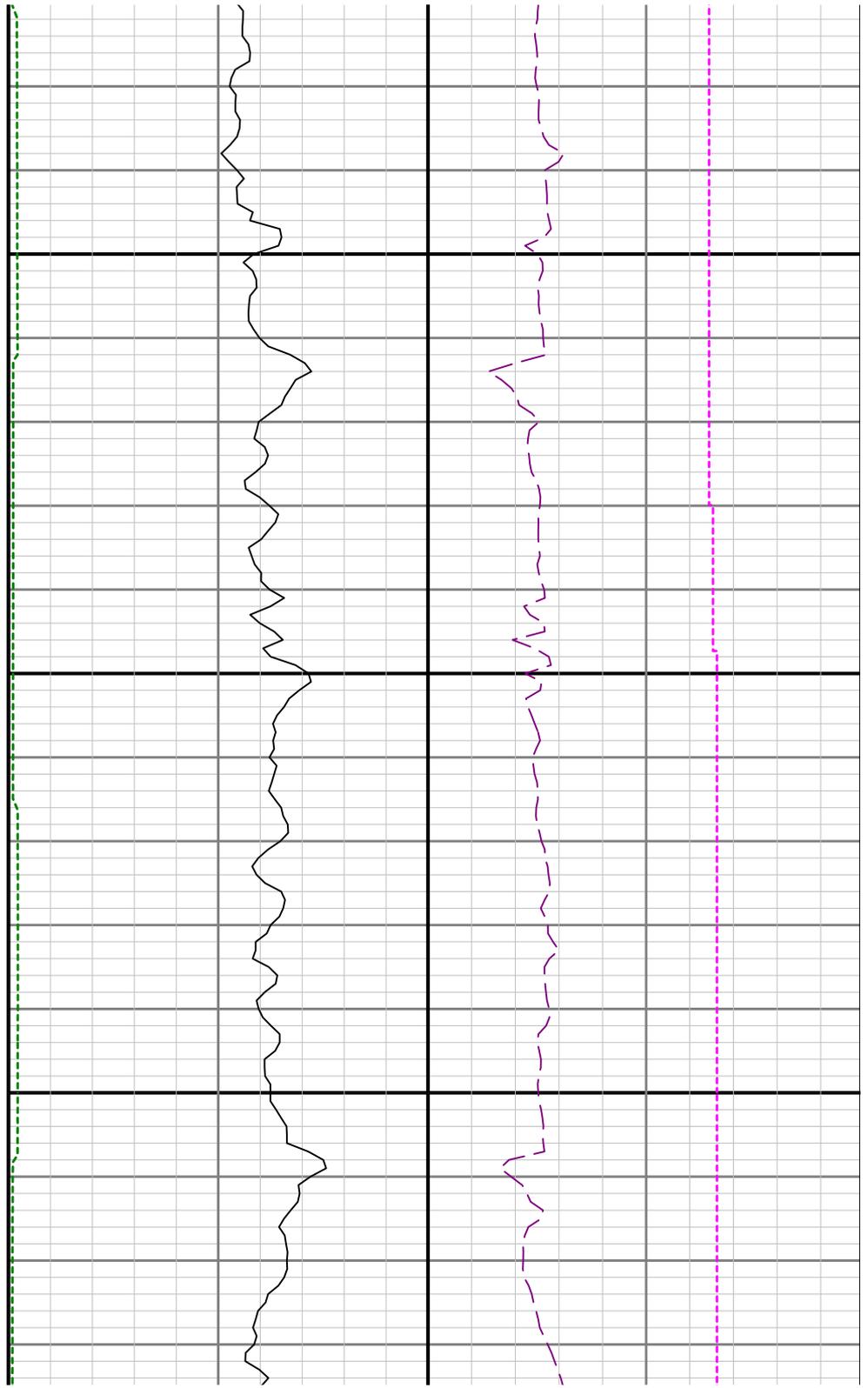
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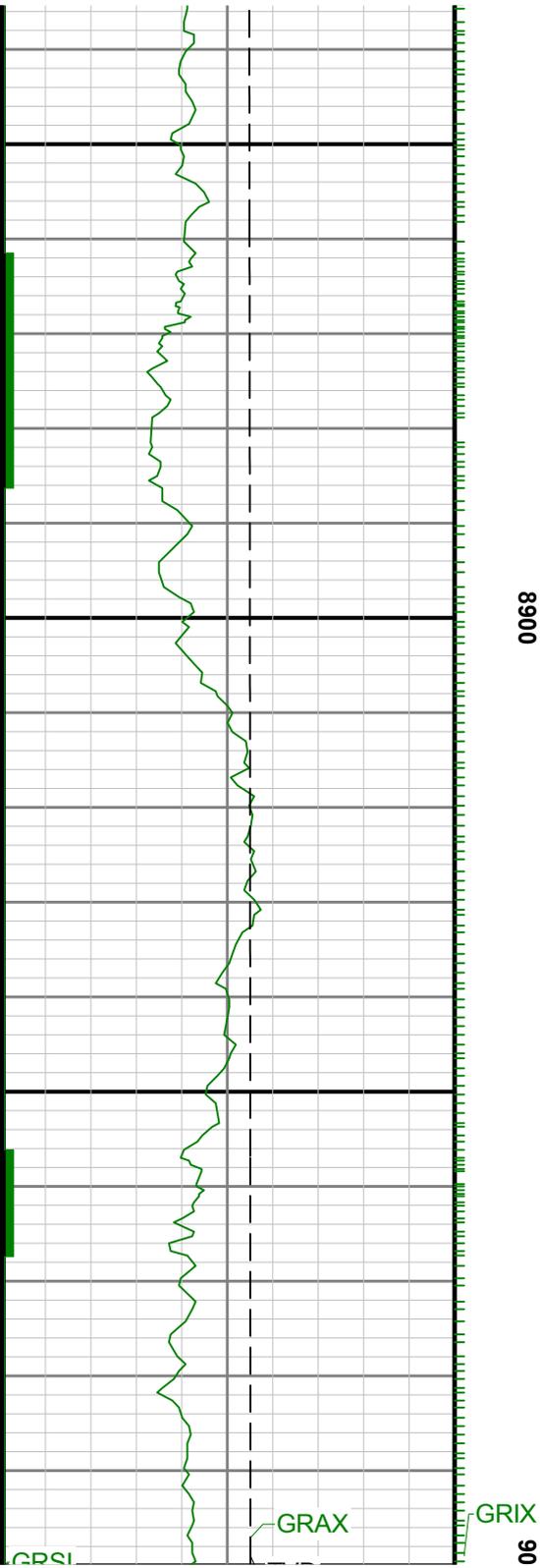




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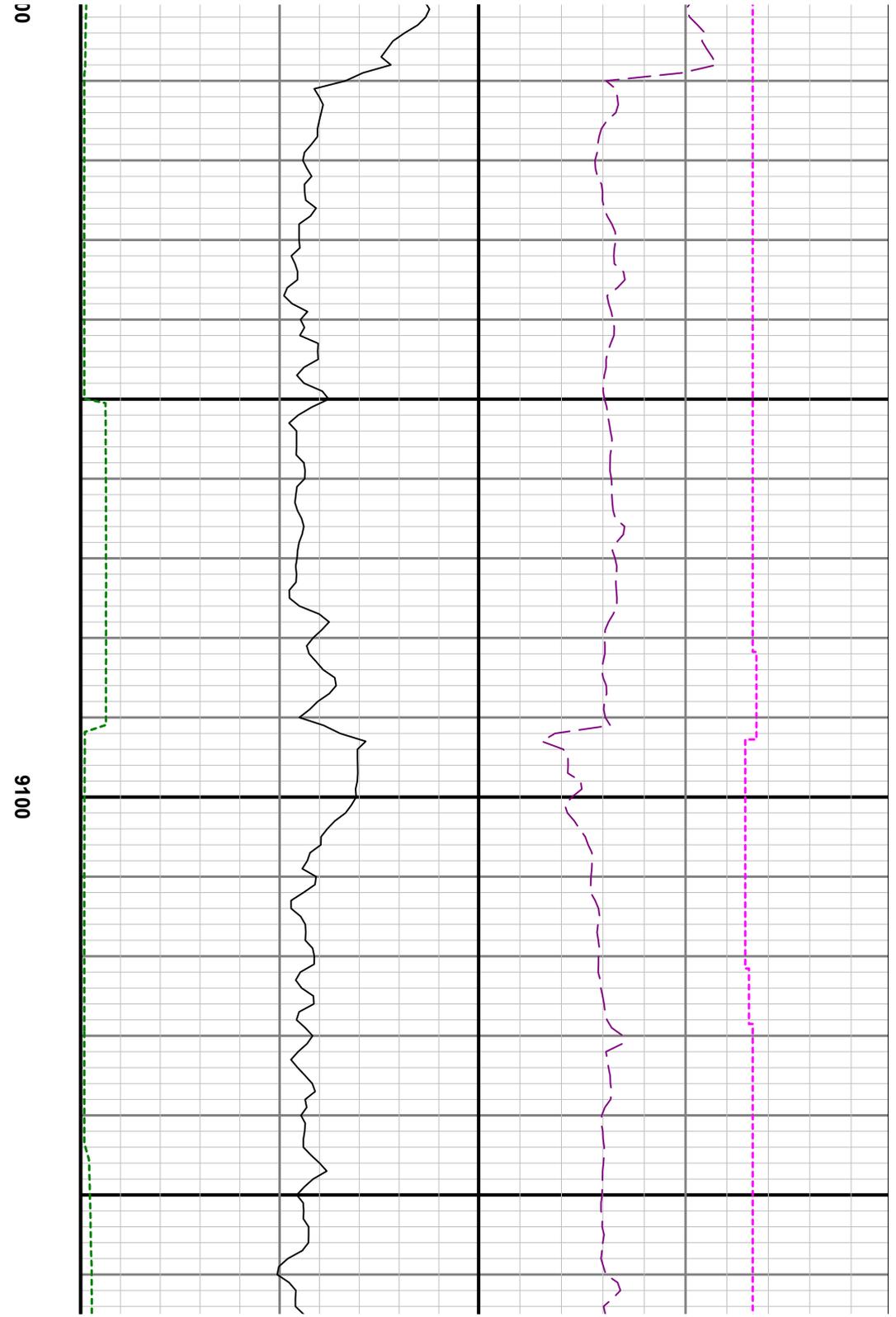
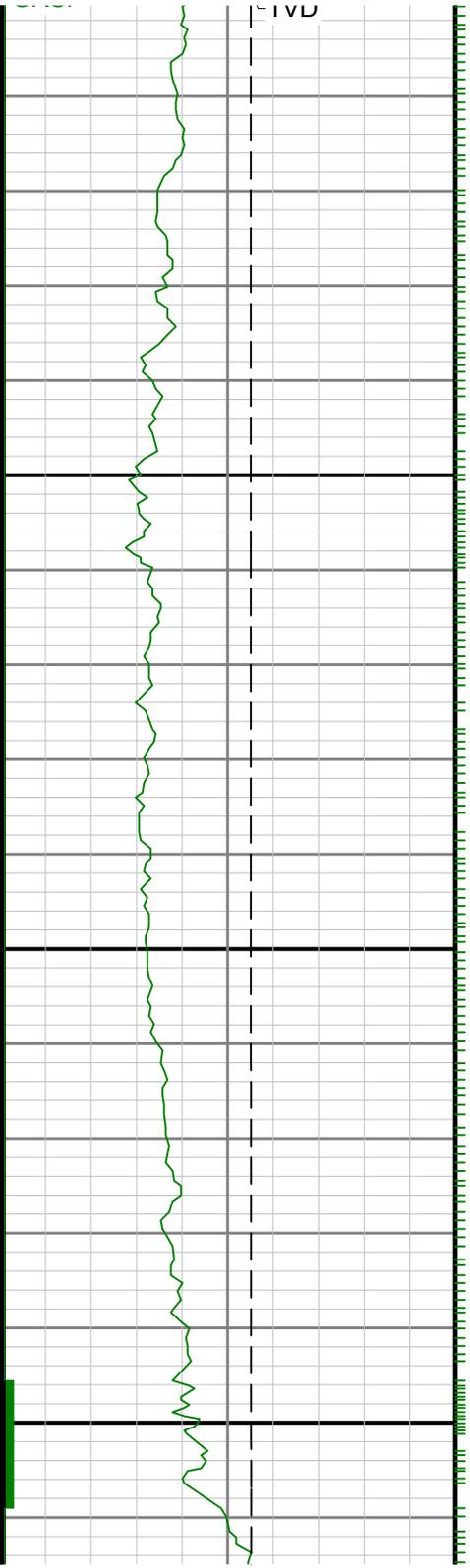


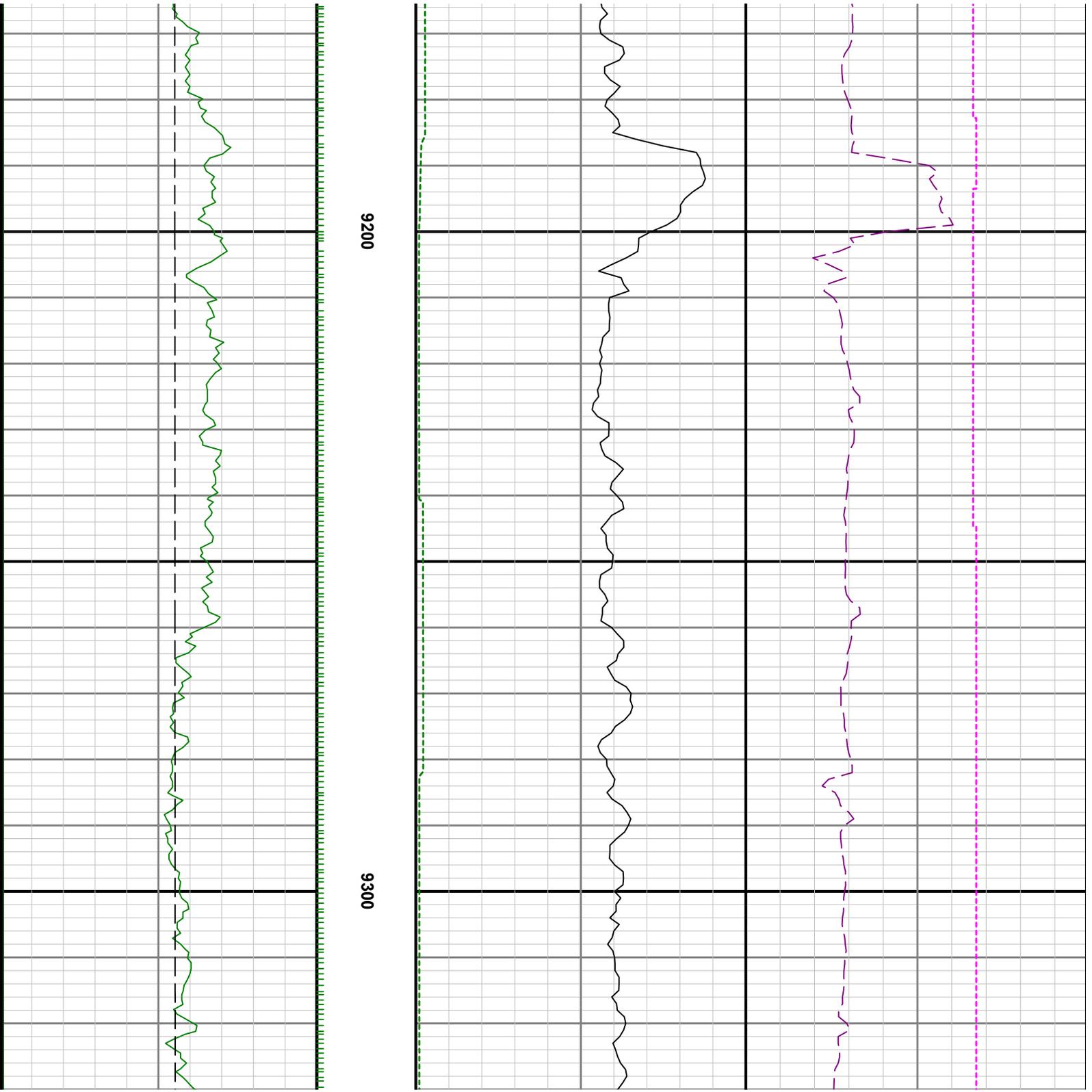


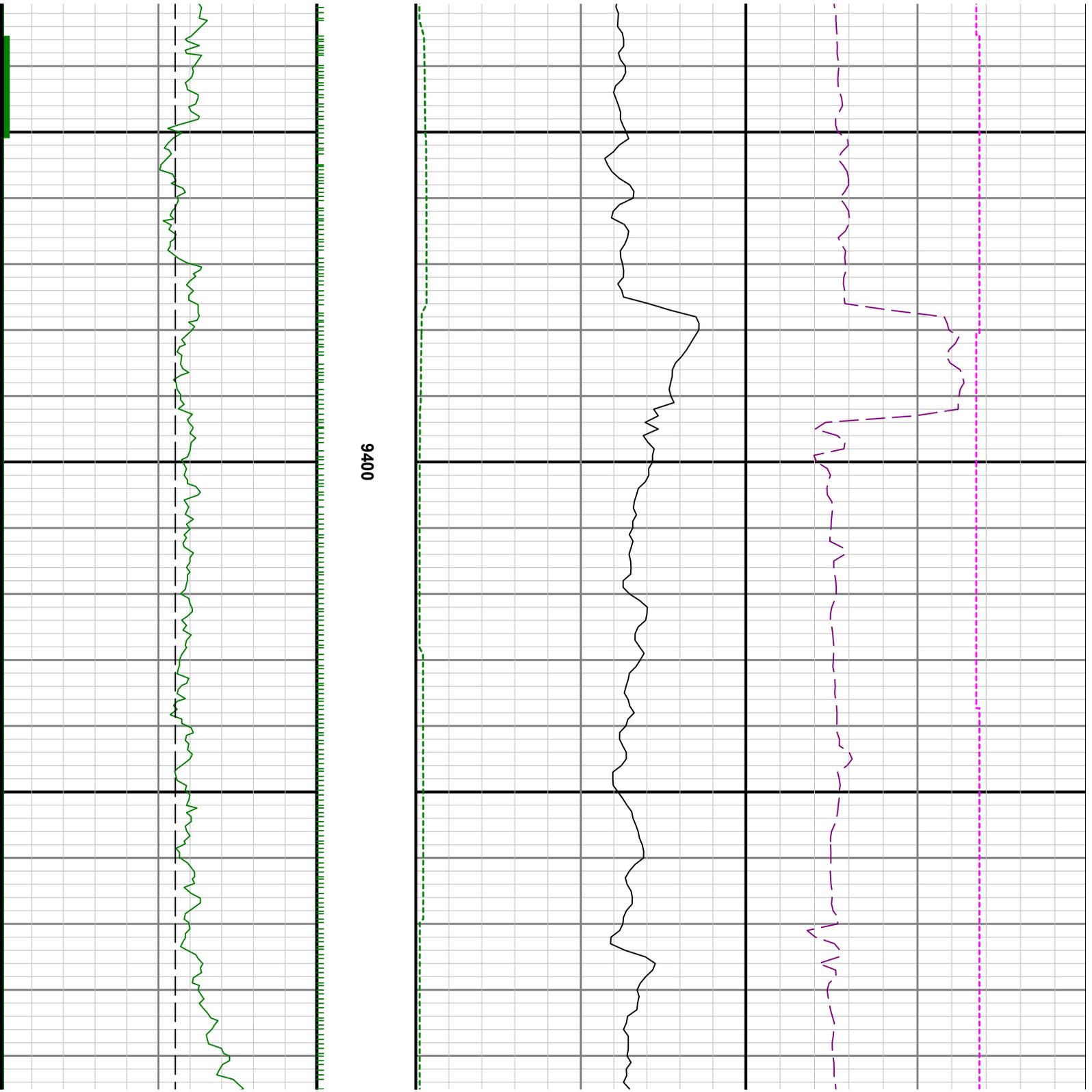
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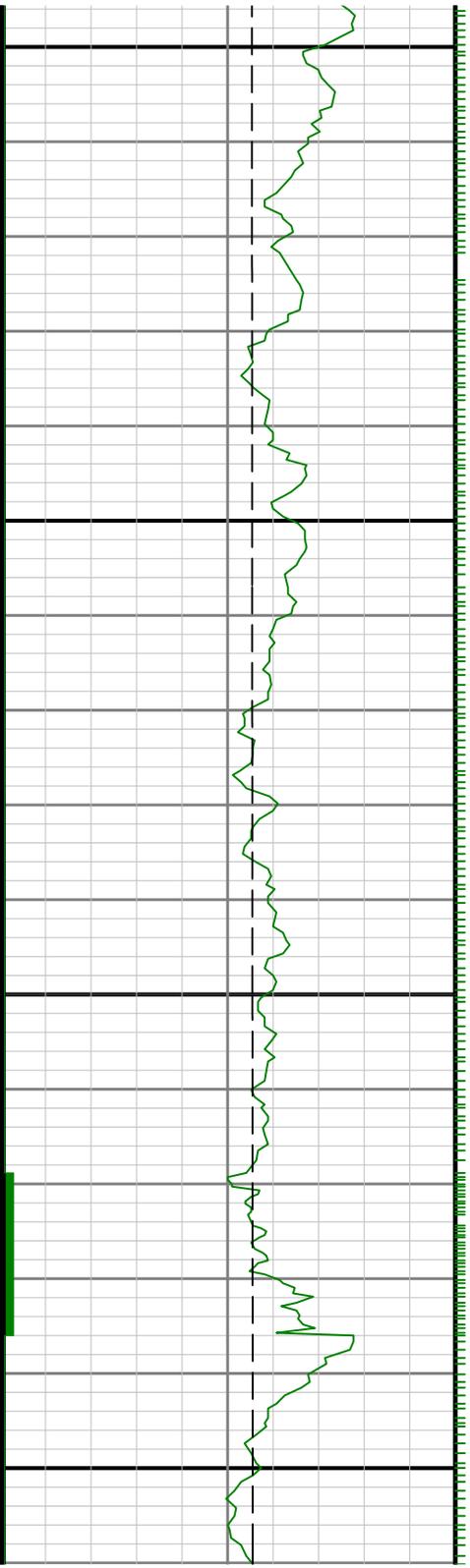
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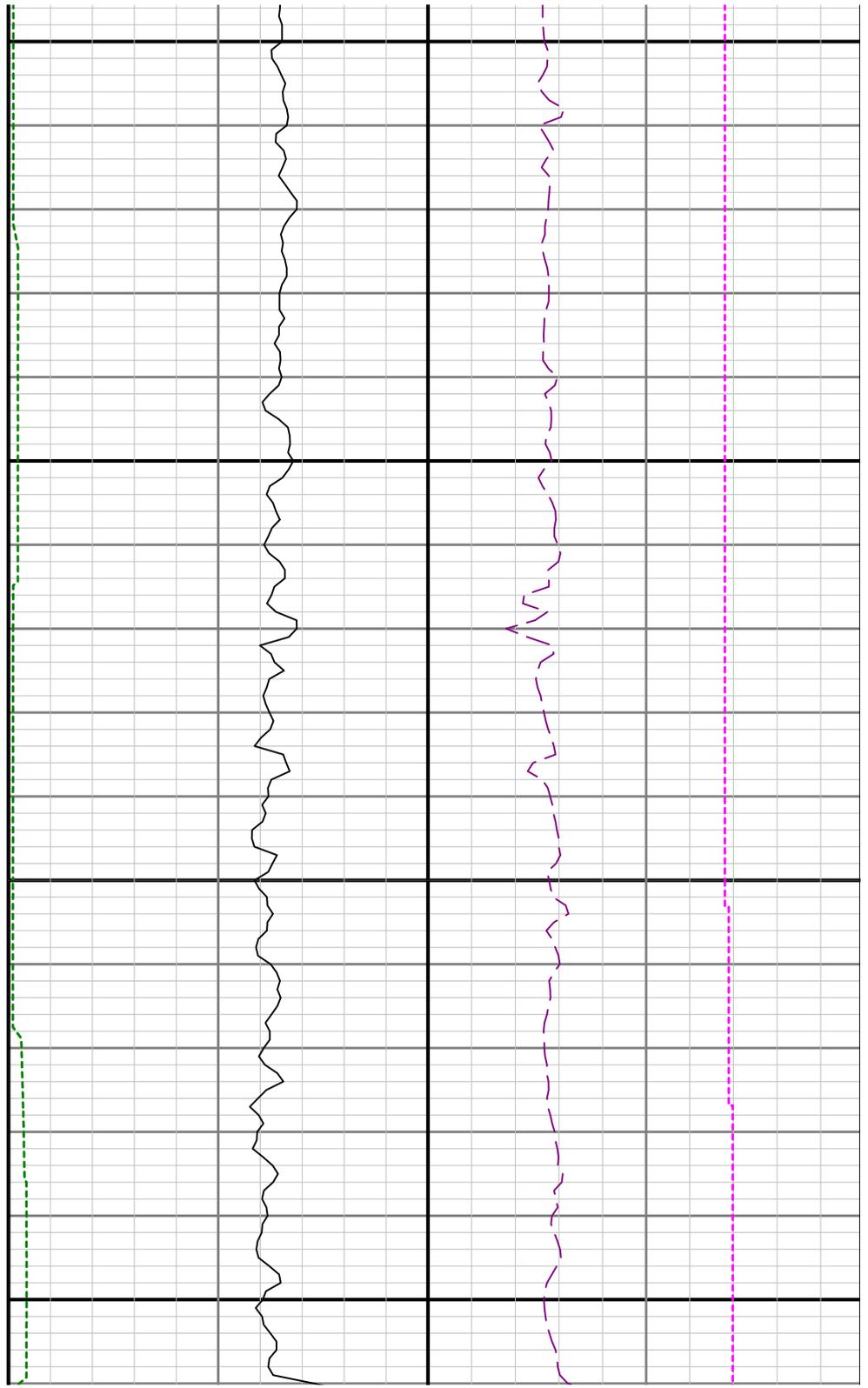


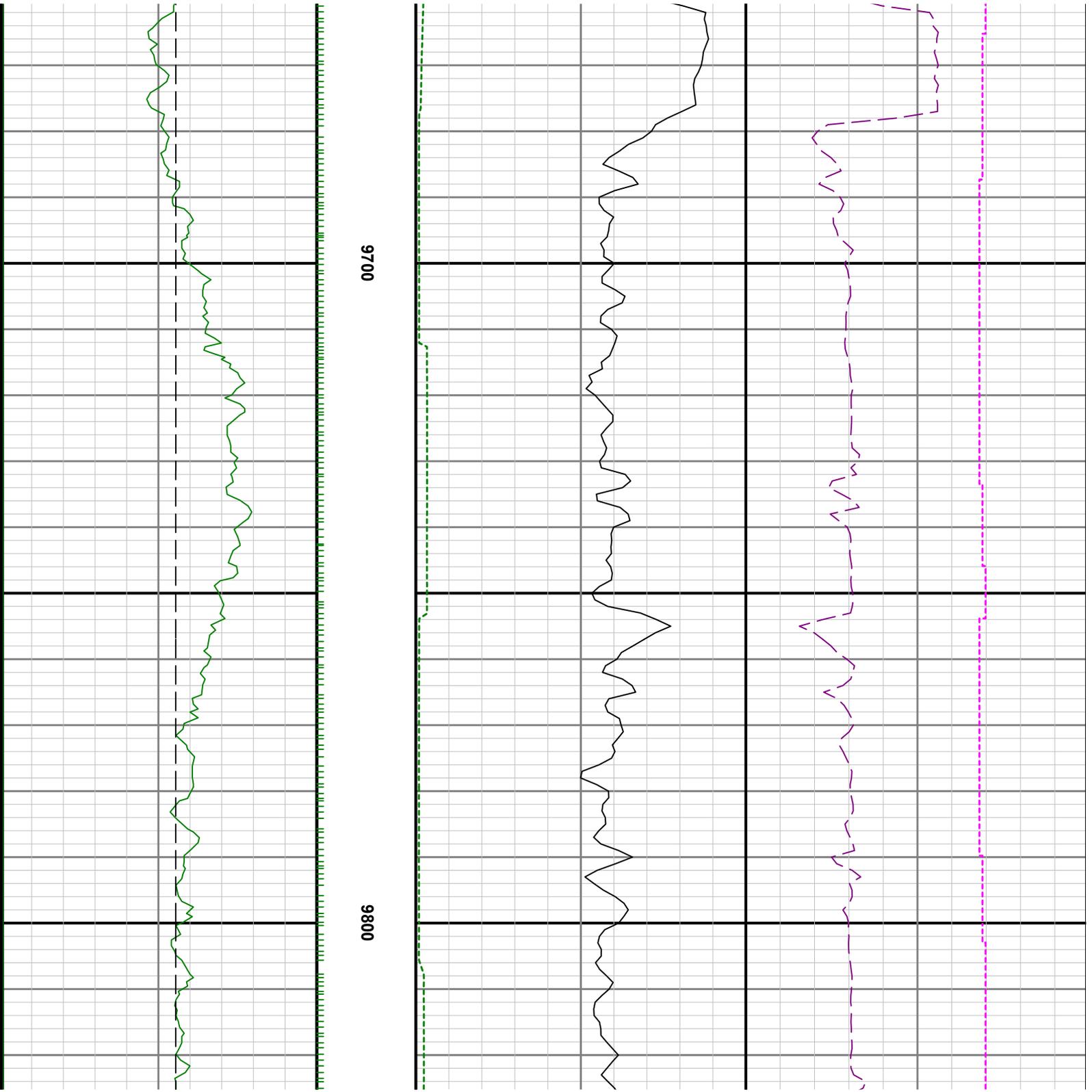


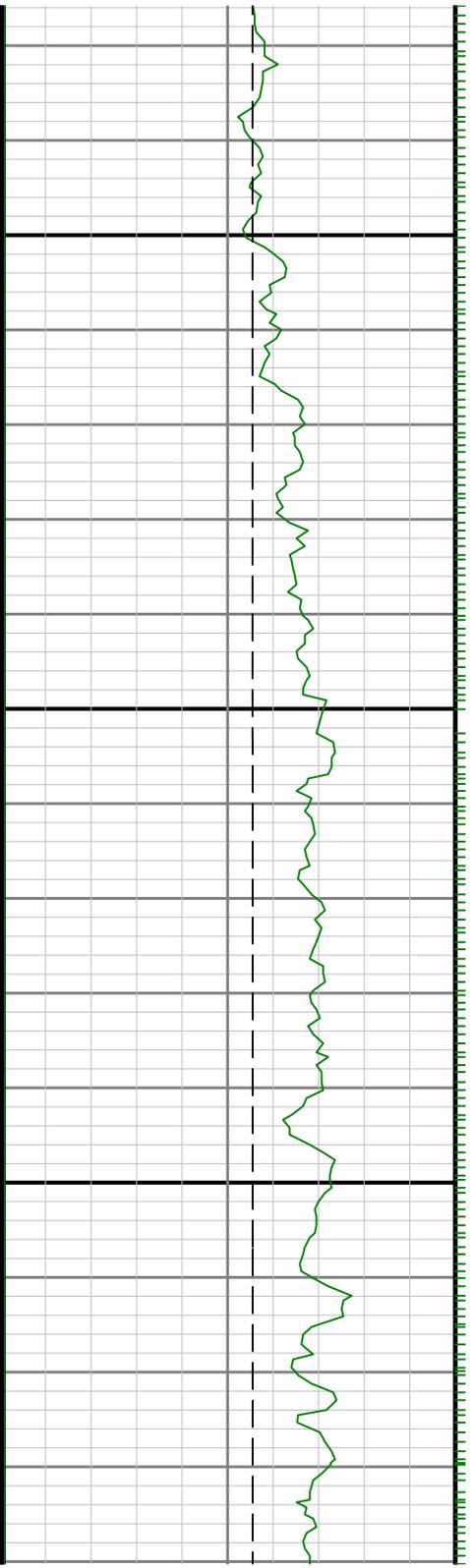


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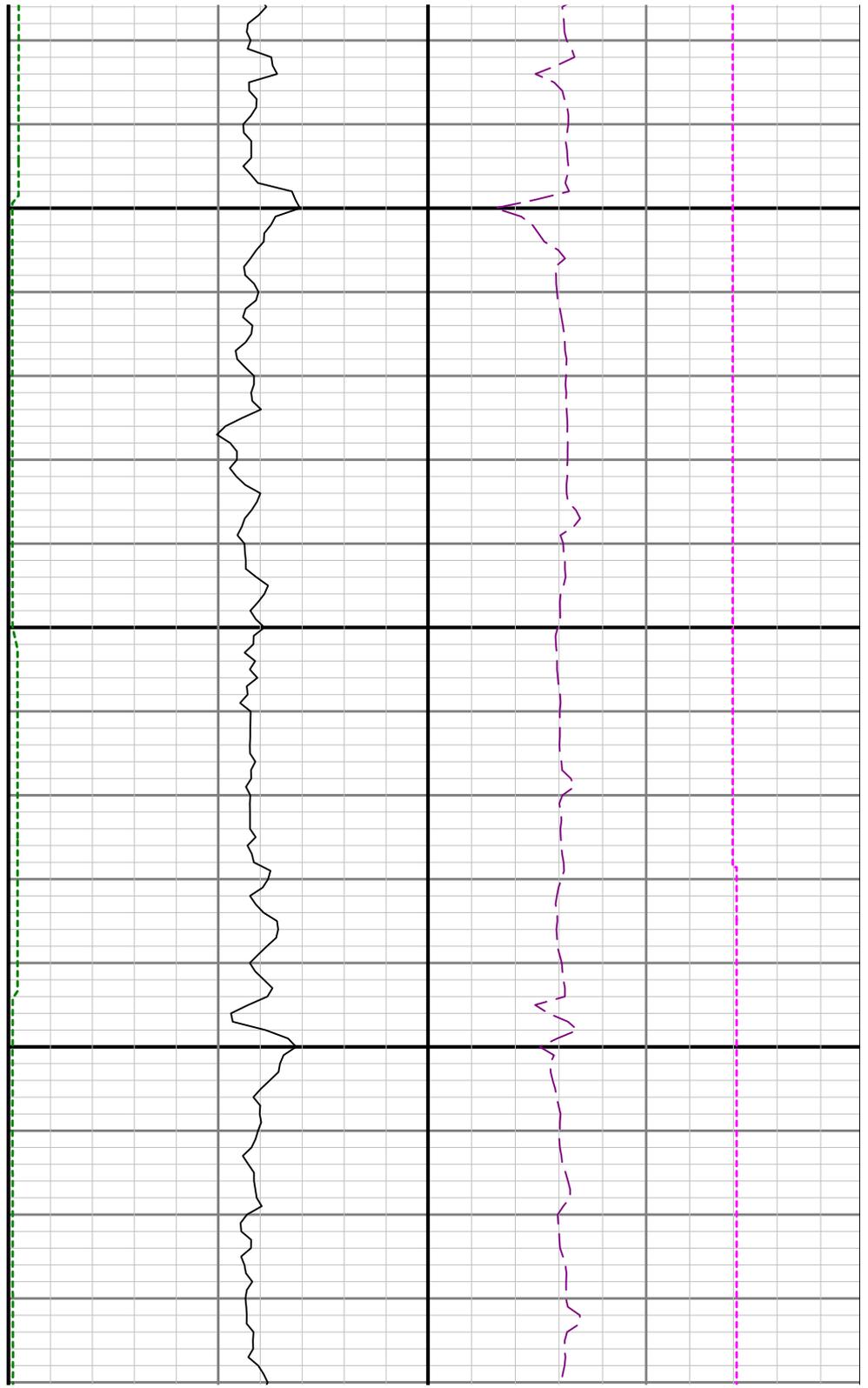
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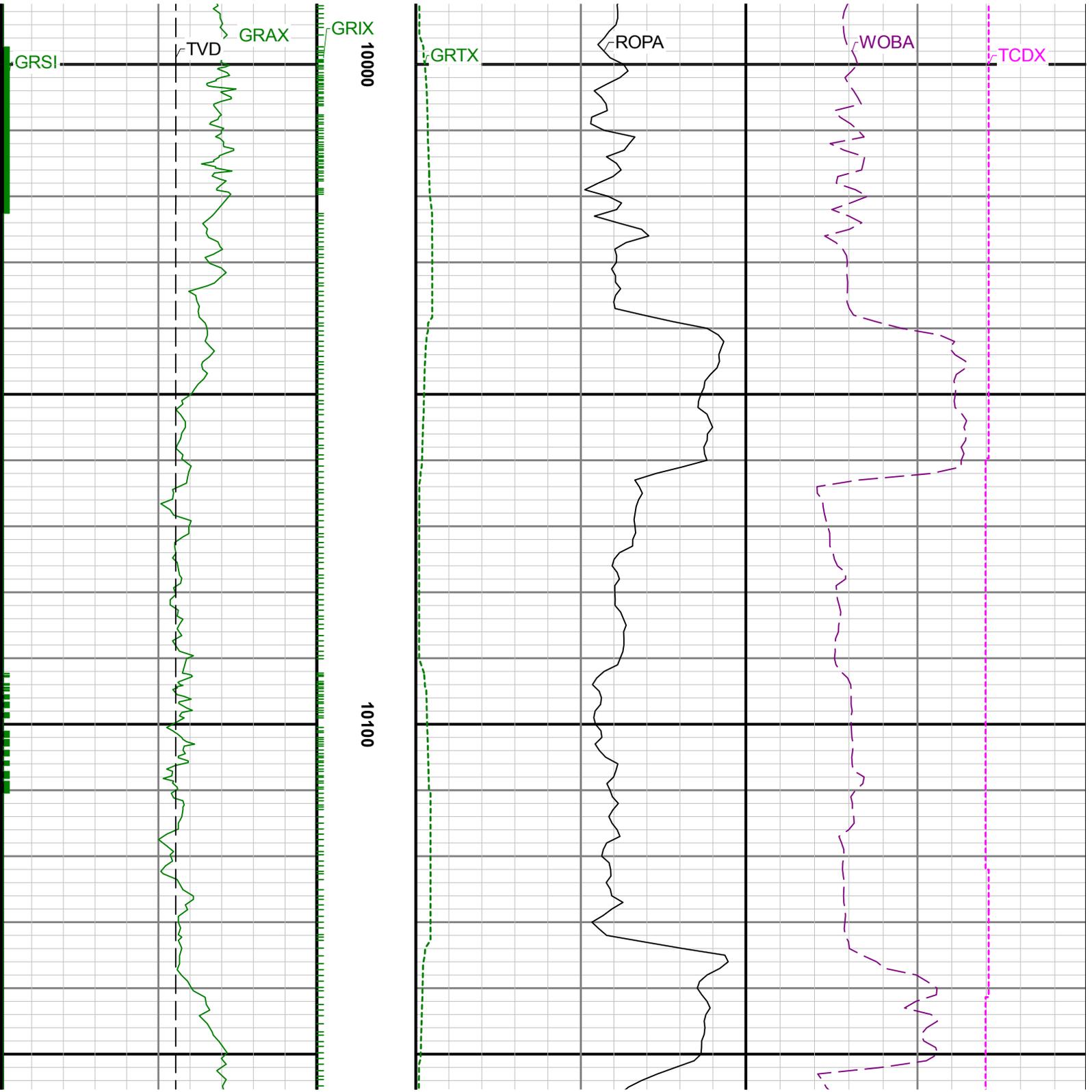


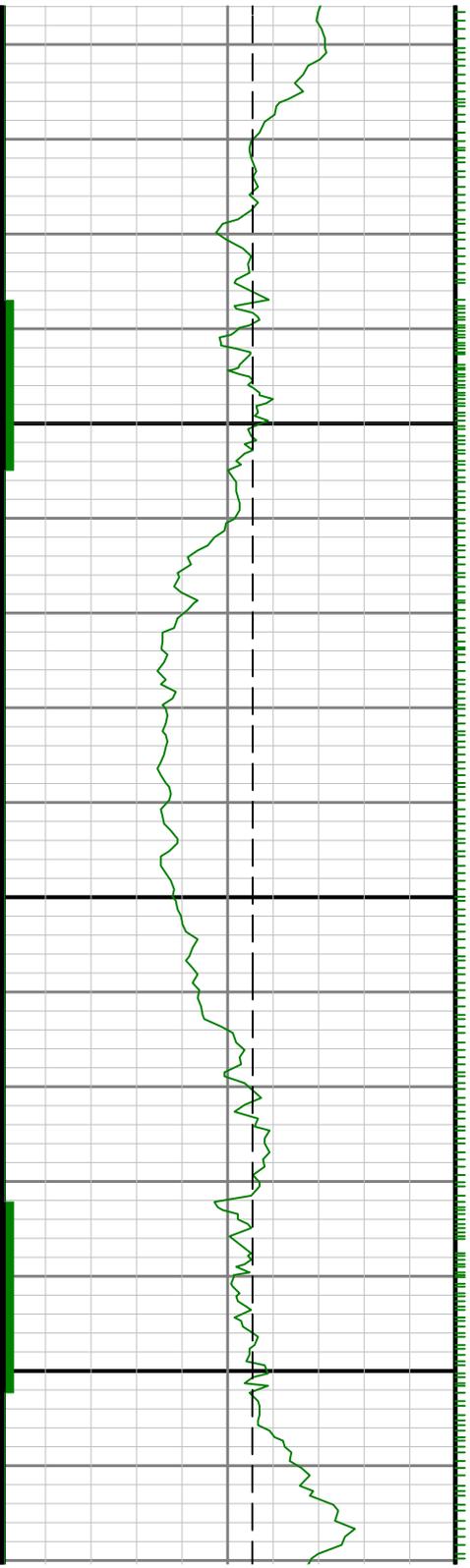




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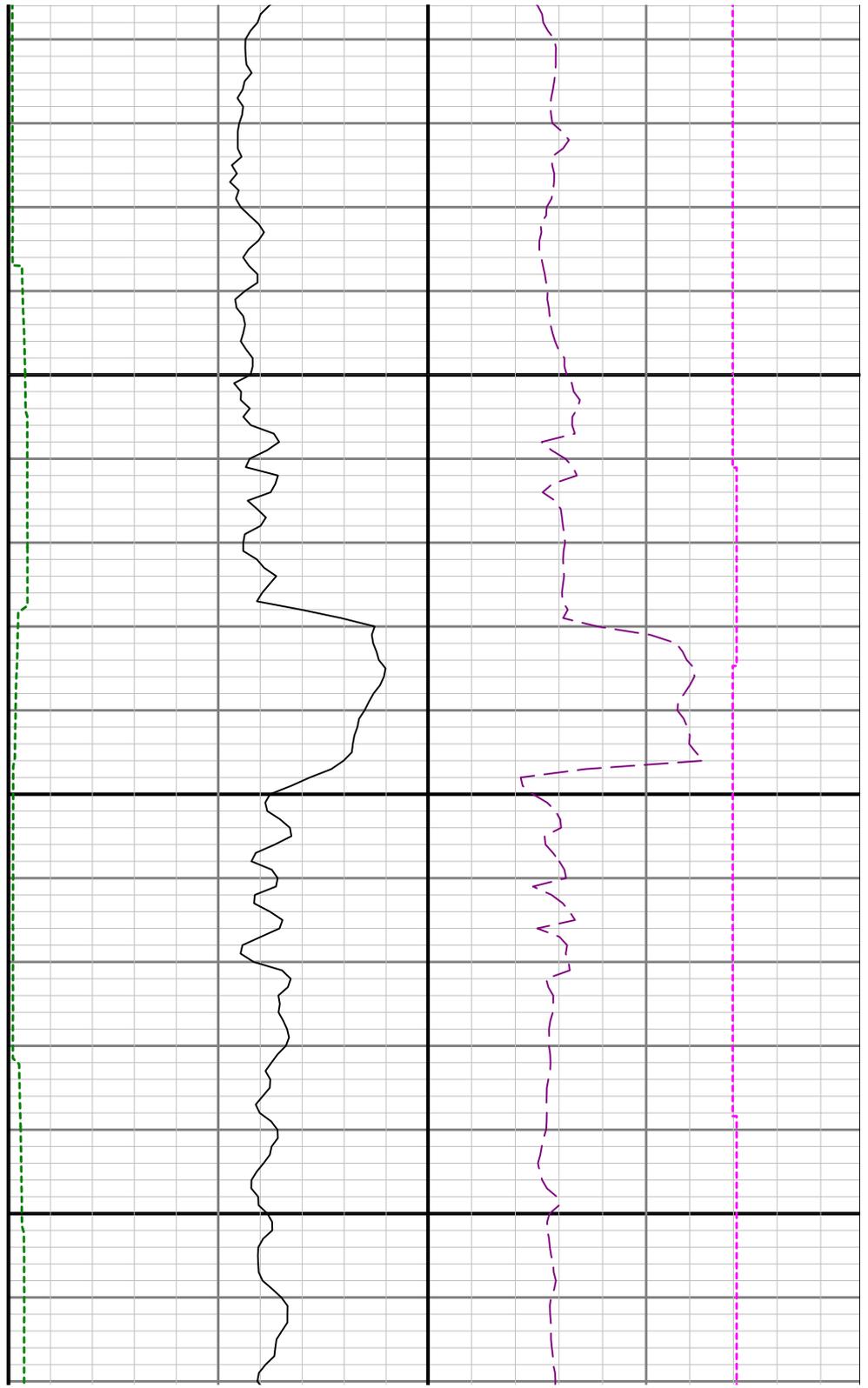


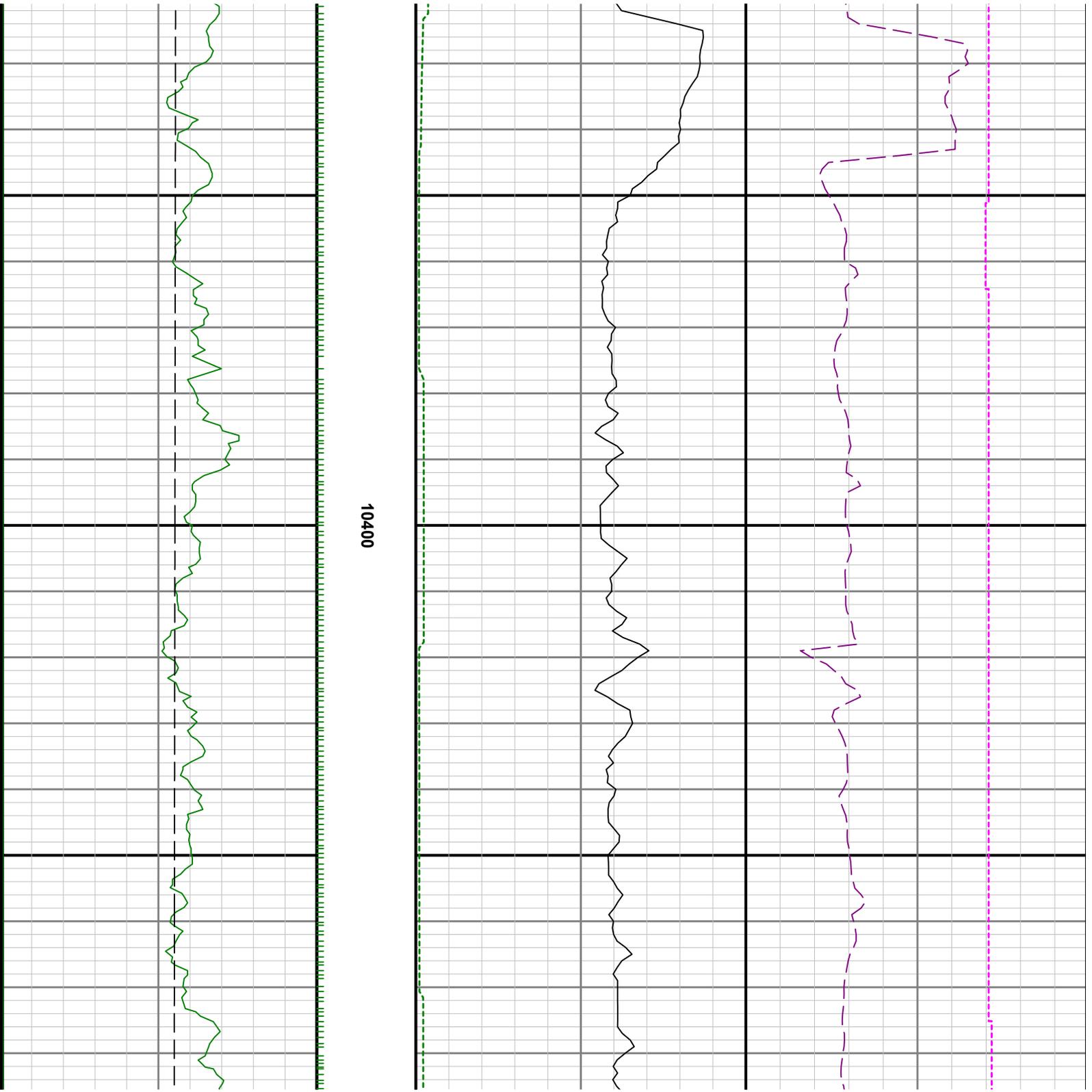




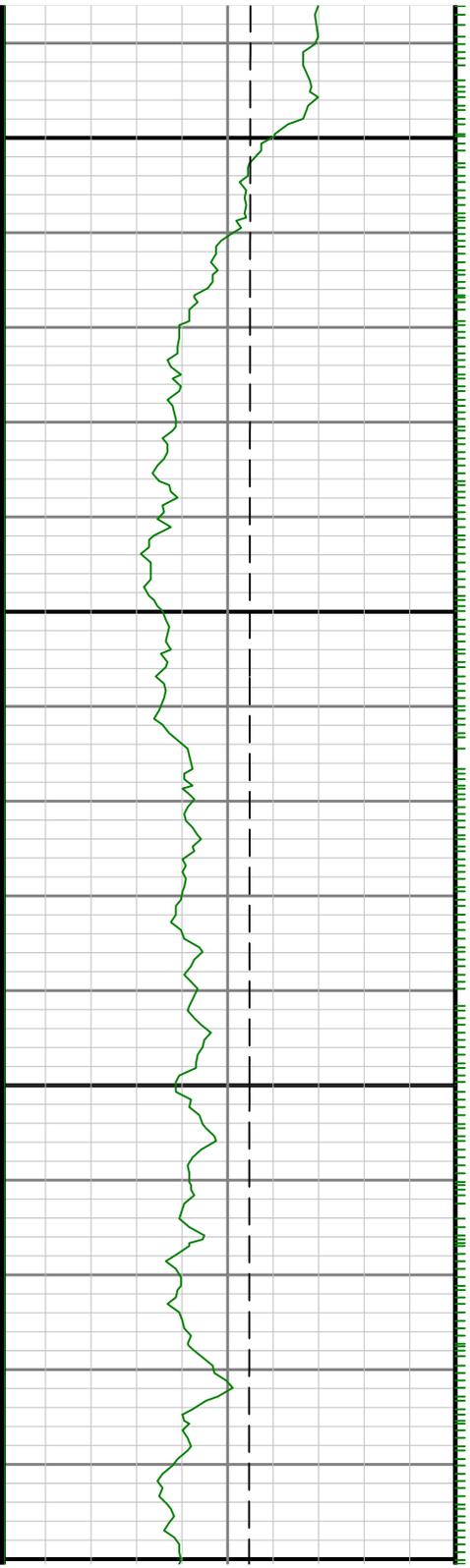
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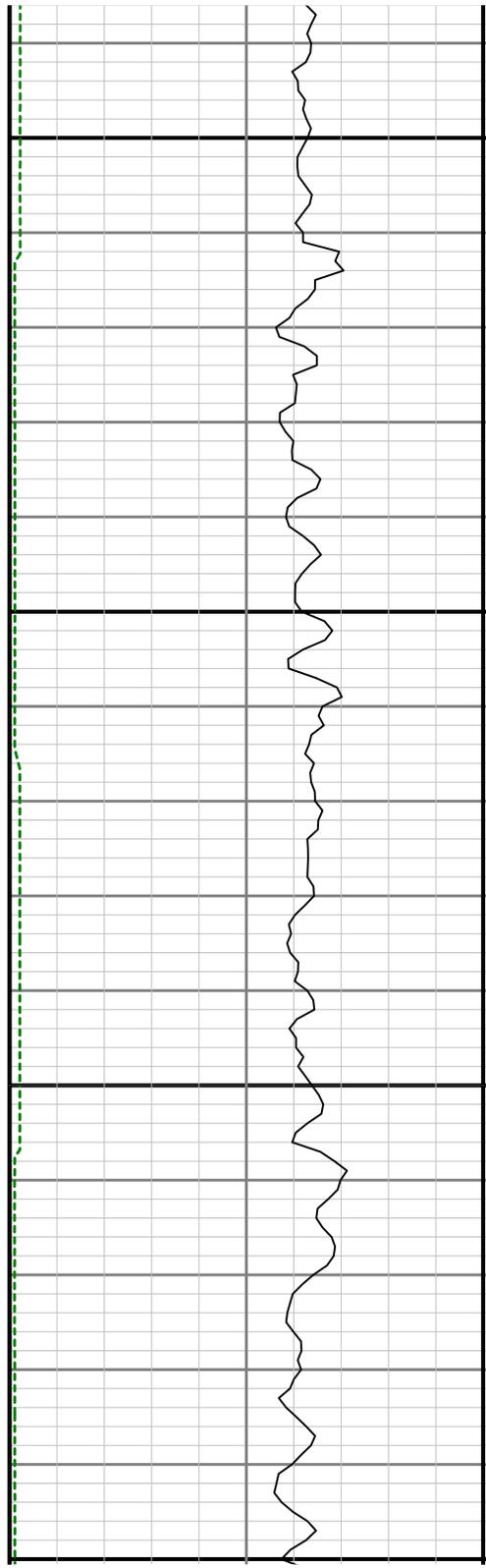


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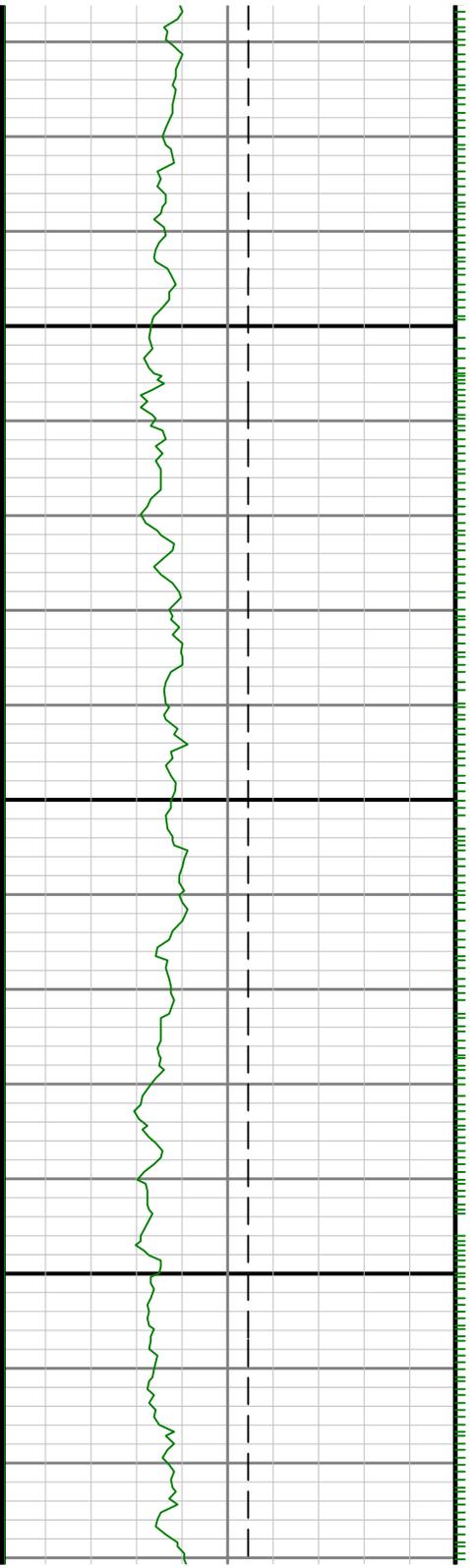


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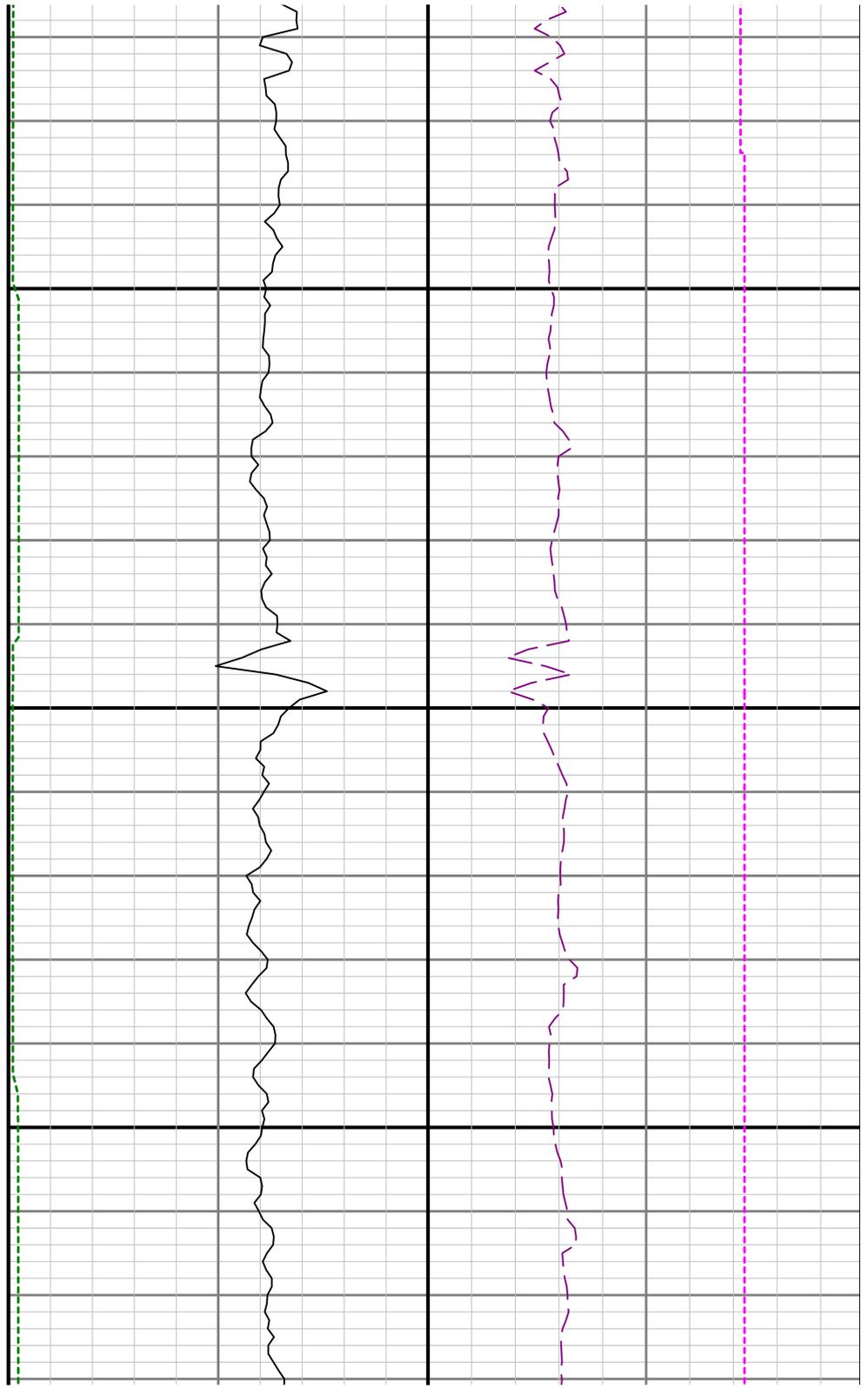
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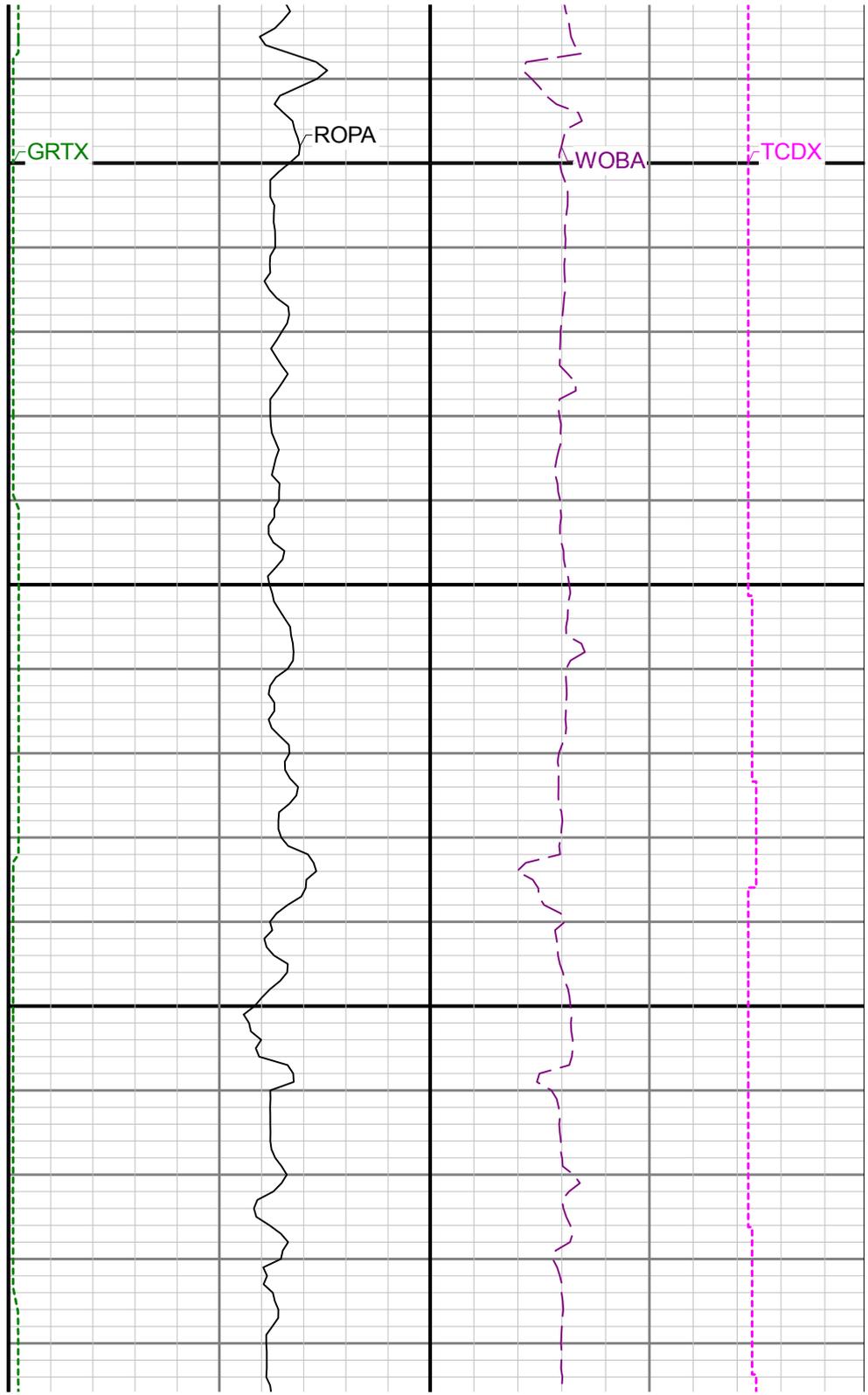
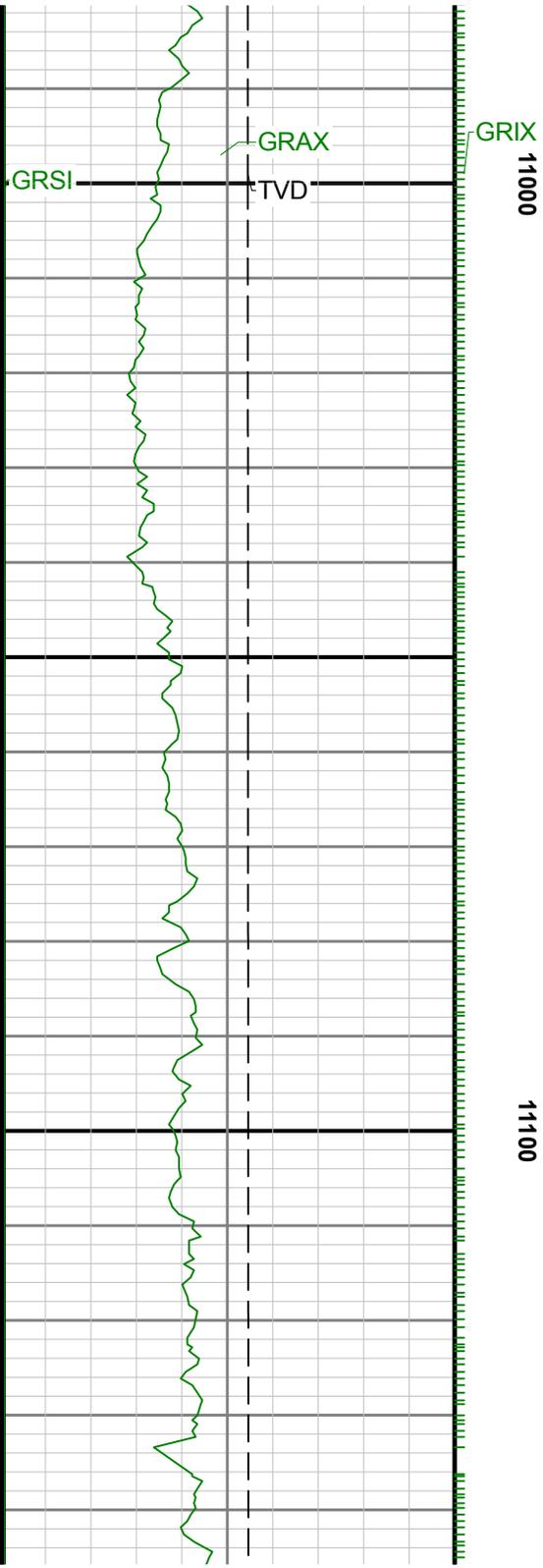


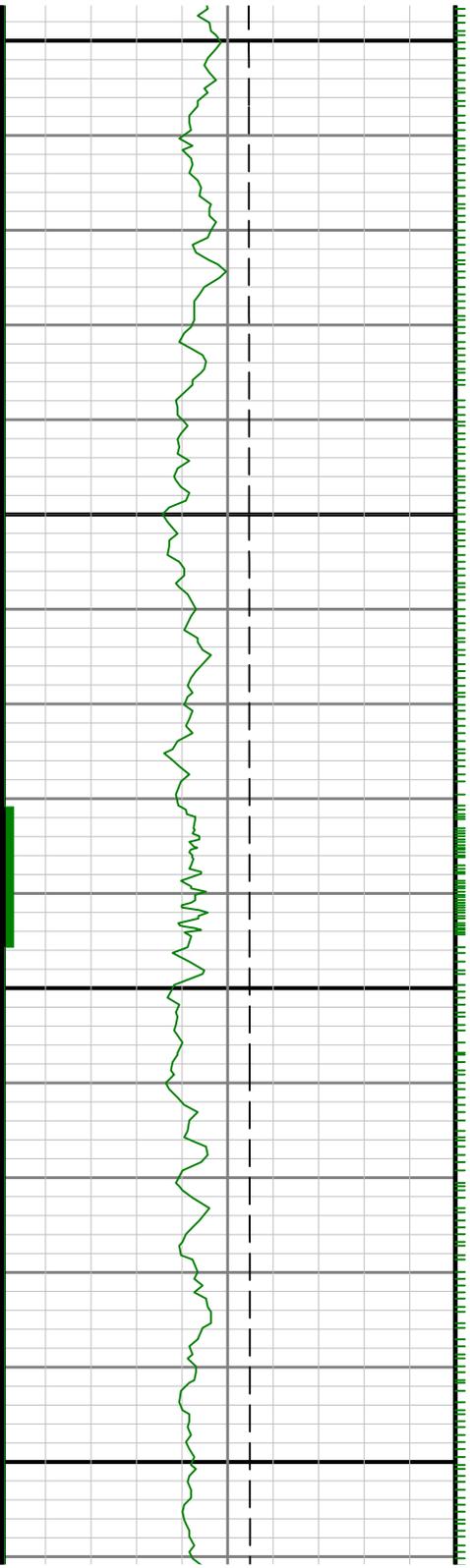




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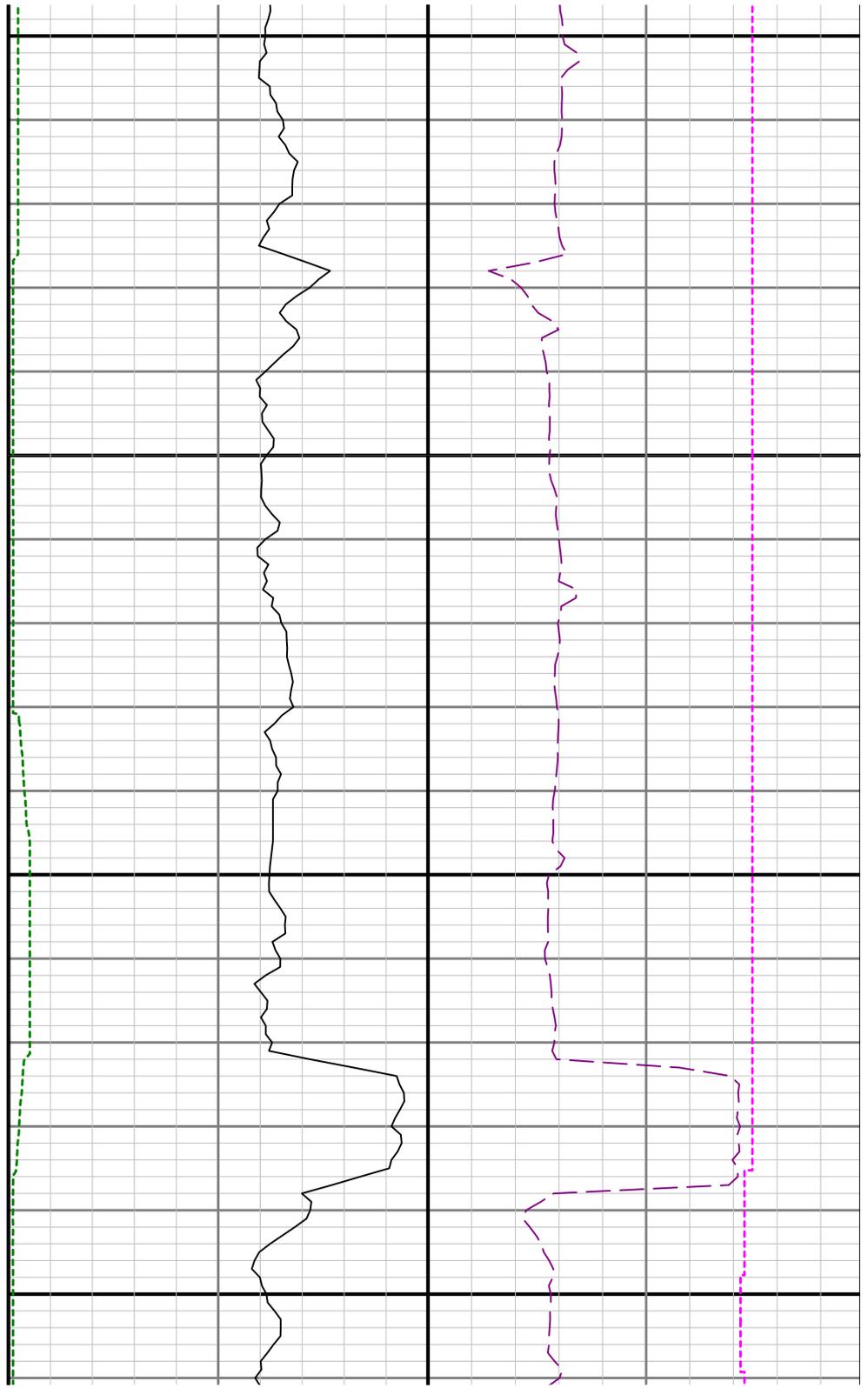


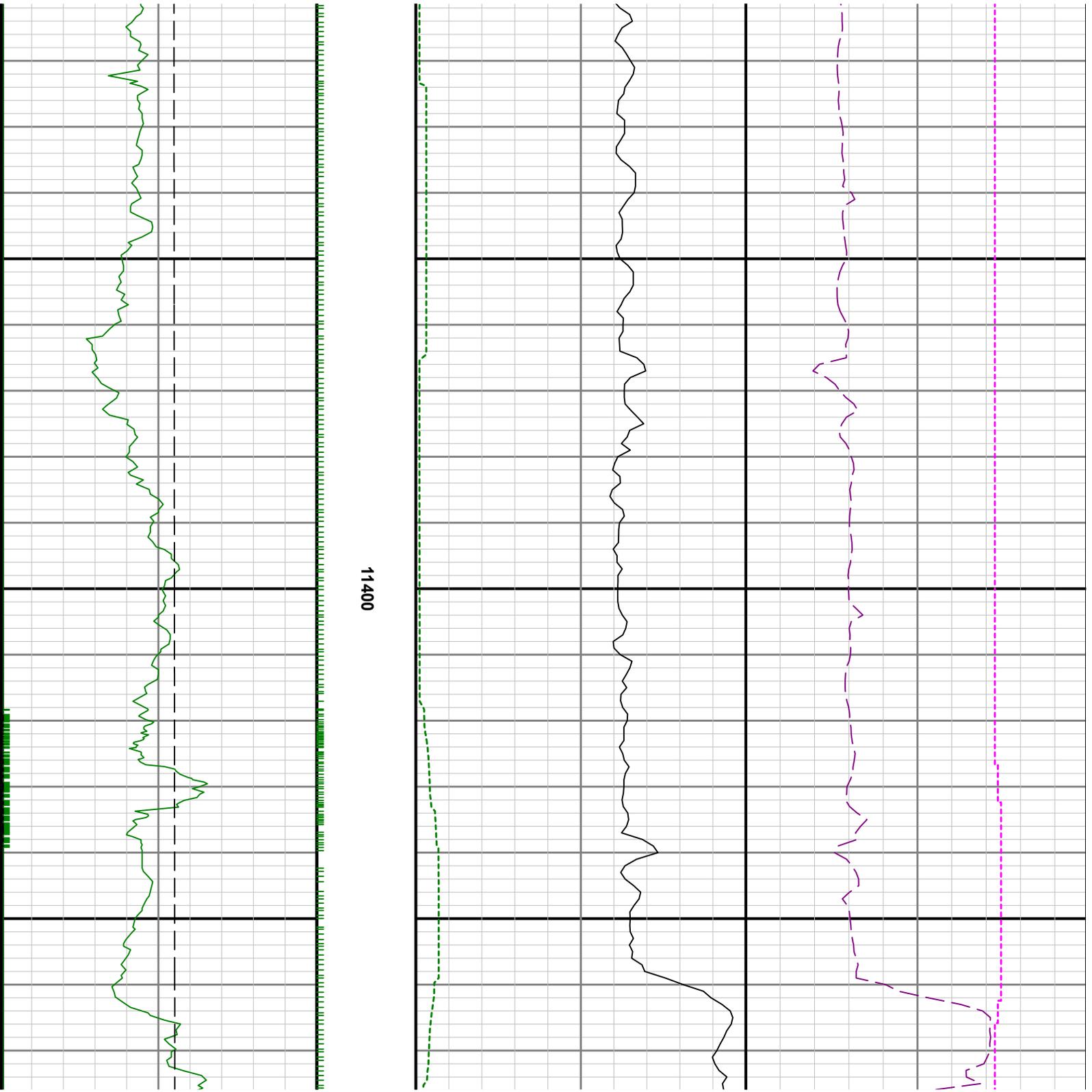


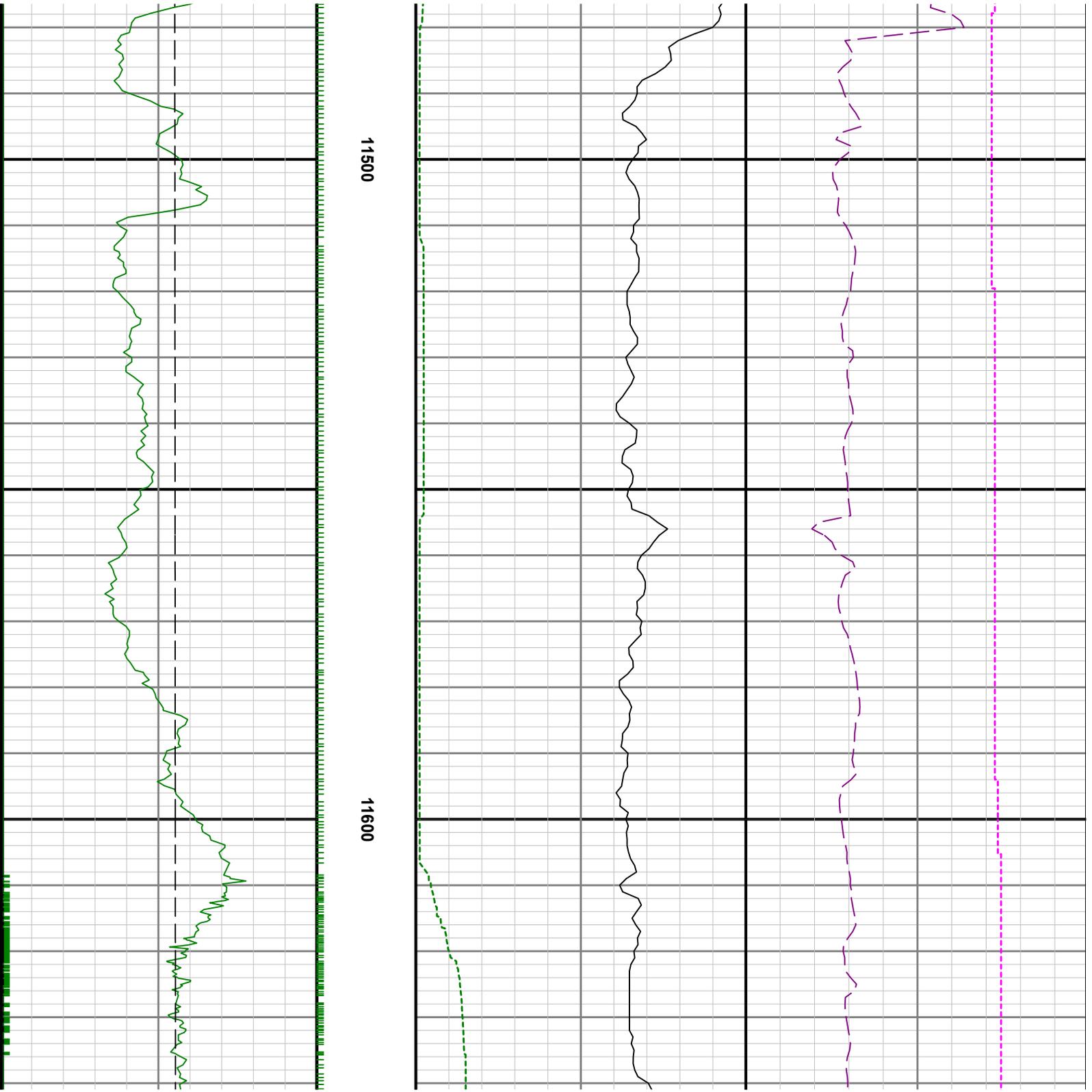


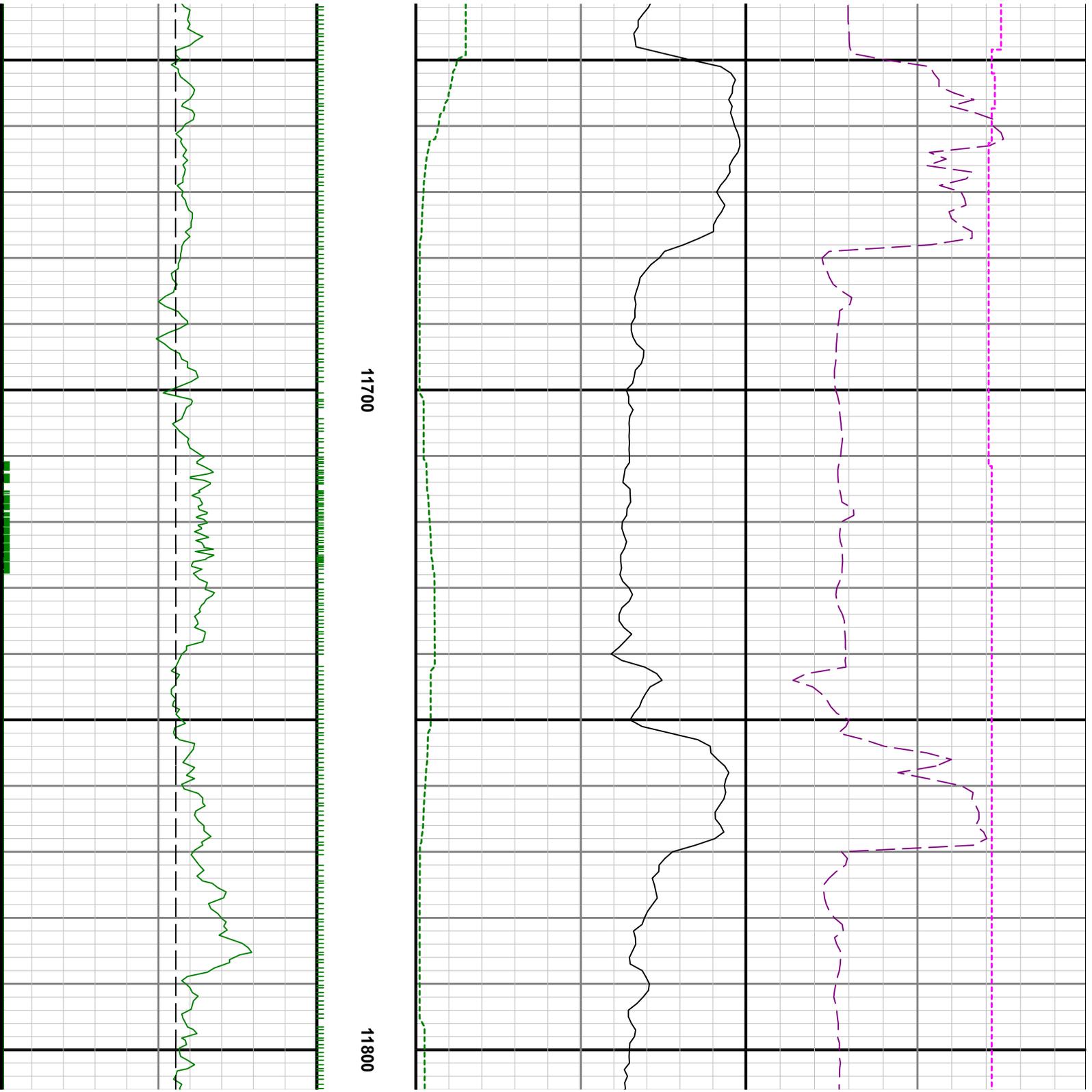
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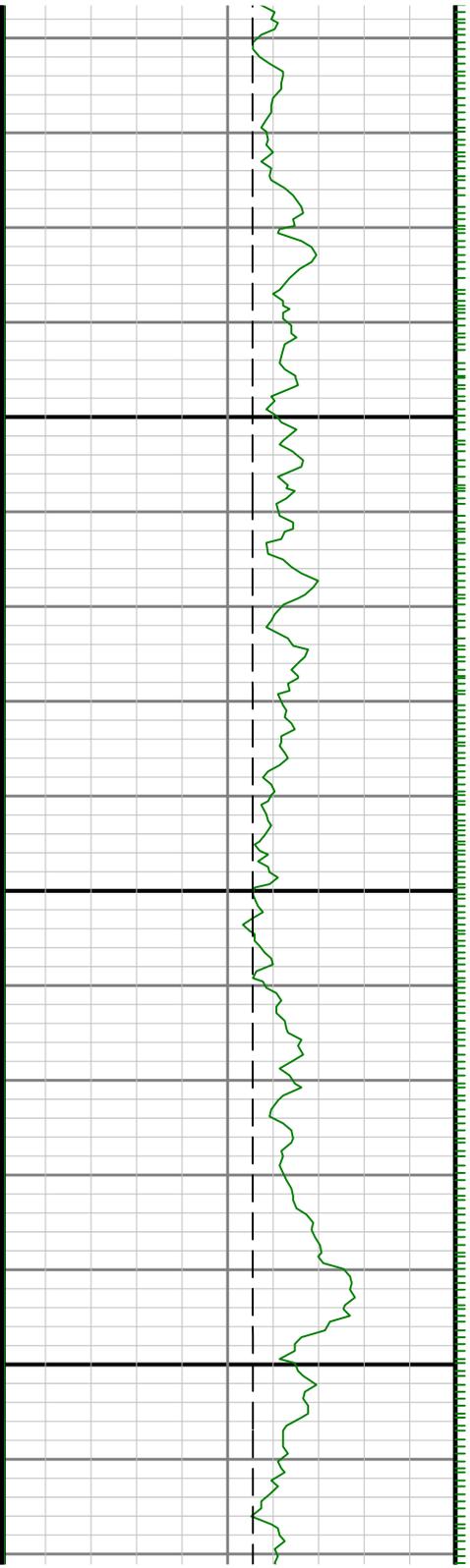
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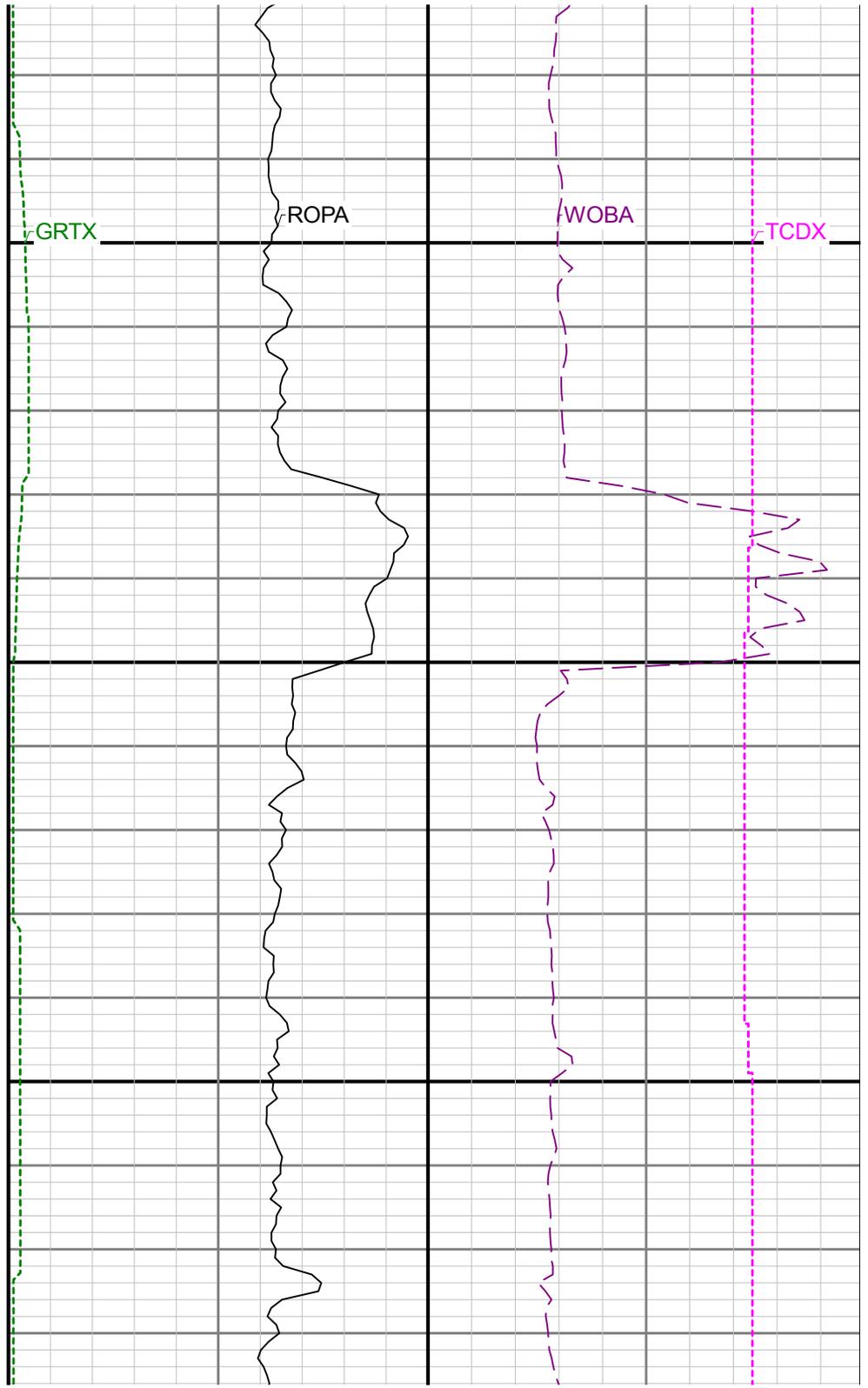
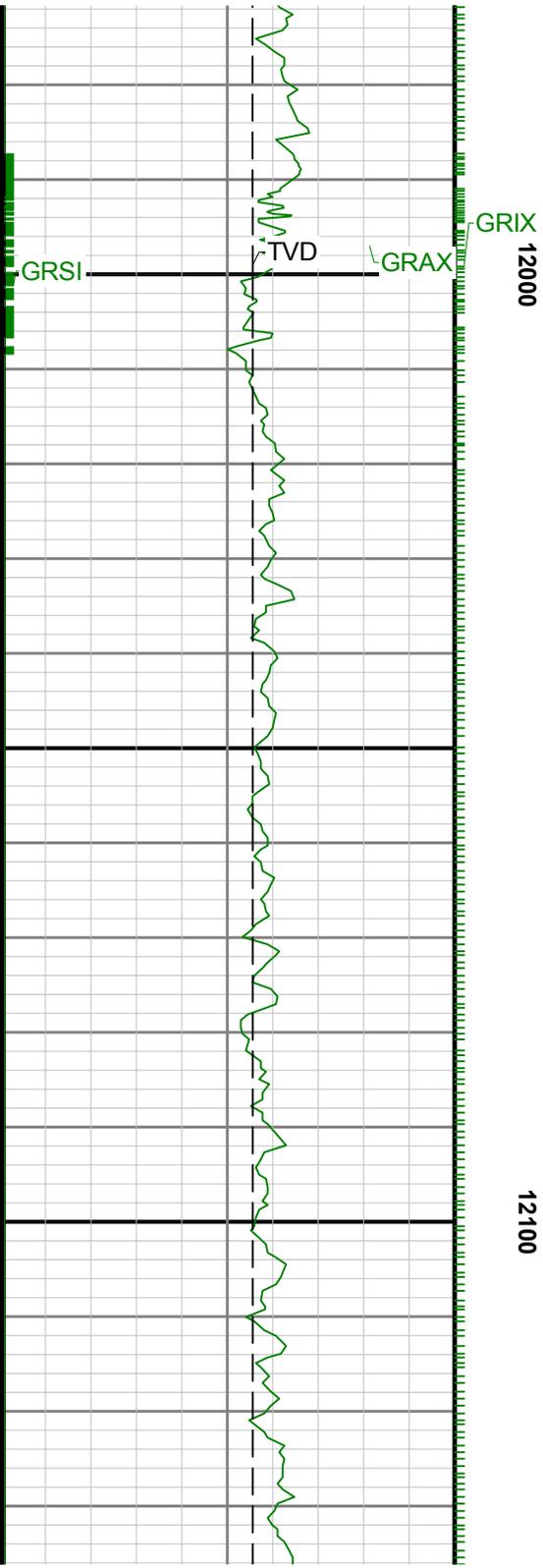


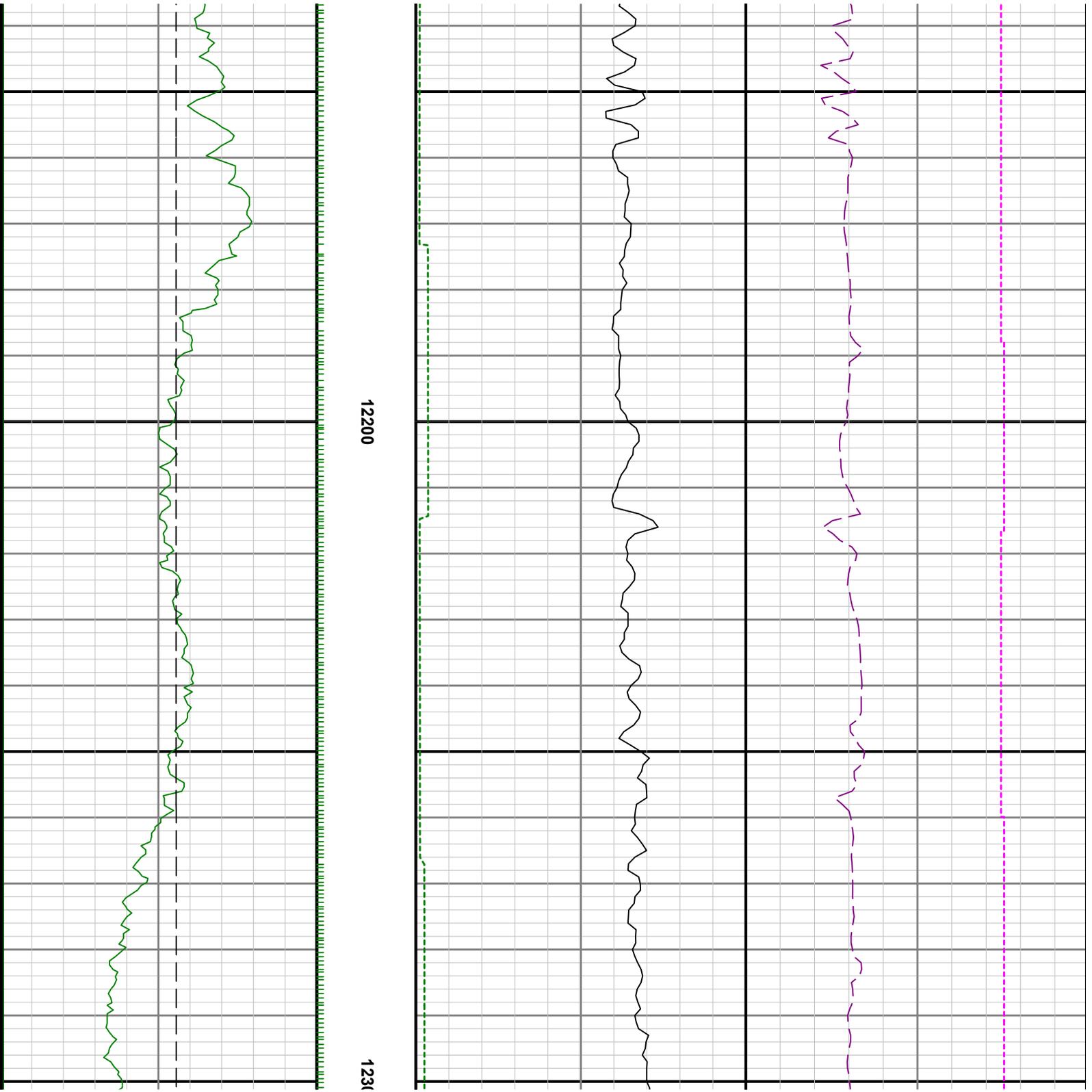


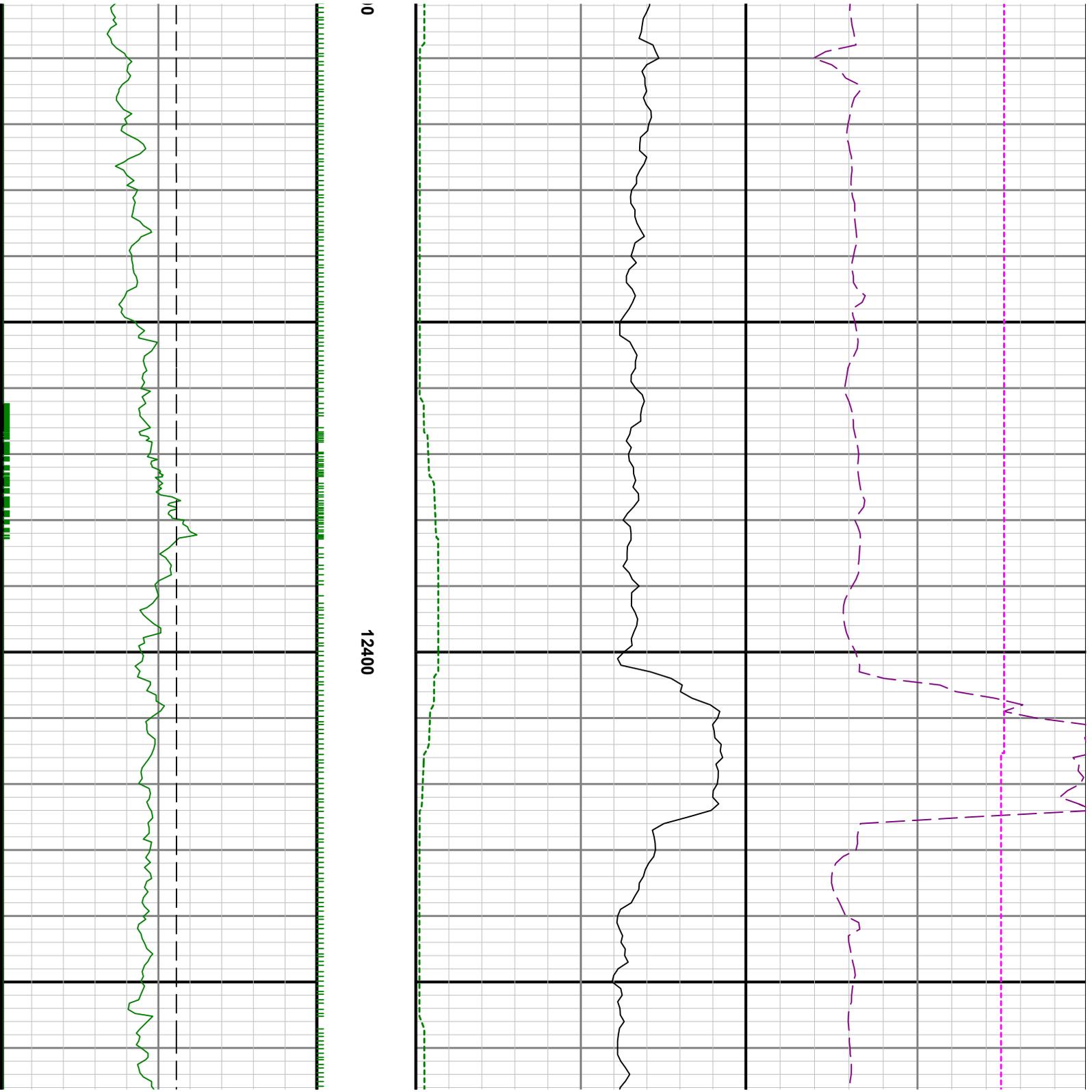


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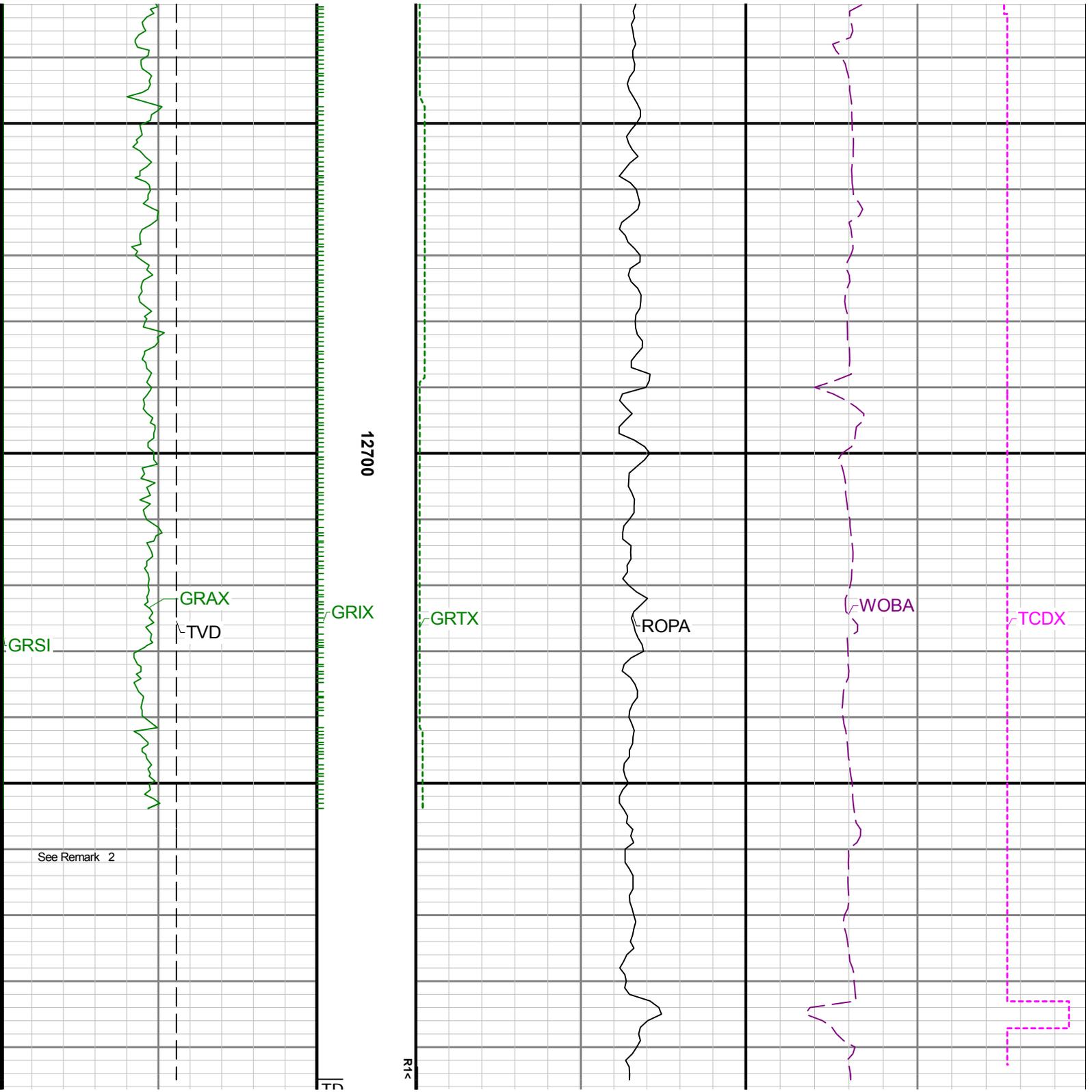












12700

GRSI

GRAX

TVD

GRIX

GRTX

ROPA

WOBA

TCDX

See Remark 2

R1

| | | | |
|---|----------------|--|--|
| | 12800 | | |
| Gamma Ray Apparent 0.5 ft Average GRAX 0 200 | MID 1:240 feet | Rate of Penetration 3 ft Average ROPA 1000 0 | Surface Weight On Bit 1 ft Average WOBA 0 100 |
| API True Vertical Depth TVD 8000 6400 ft | | ft/h Gamma Ray Time Since Drilled GRTX 0 600 | klb Downhole Temperature TCDX 0 300 |
| | | min | degF |