

LWD MEMORY COMPOSITE LOG



Gamma Ray

| | |
|---|---|
| Scale: 1:240 Measured Depth | Company: PDC Energy Inc |
| | Well: Blackburn 01N |
| | Field: WELD COUNTY (NAD83/GRID) |
| Depth Reference: Driller's Depth | County: Weld Country: United States |
| | State: Colorado |
| Status: Final Print | Surface Location: Latitude: 40° 20' 20.749" N Longitude: 104° 43' 06.275" W Other Services: Directional |
| API: 05123527540000 | |
| Job ID: 112918910 | SEC: 1 TWN: 4N RGE: 66W |

Operational Summary

Rig & Elevations

| Dates | Drilled (ft) | Logged (ft) | Rig Contractor: True Drilling | Rig: True 41 | Elev. KB: (ft) | 4722.00 |
|------------------|------------------|------------------|--|--------------------------|----------------|---------|
| From: 2026-01-18 | Top: 1663.00 | Top: 1650.00 | Permanent Datum (P.D.): Mean Sea Level | Elevation: (ft) 4697.00 | Elev. DF: (ft) | 4722.00 |
| To: 2026-01-20 | Bottom: 19975.00 | Bottom: 19962.00 | Log Measured From: Rig Floor | Above P.D.: (ft) 4722.00 | Elev. GL: (ft) | 4697.00 |

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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 | |
| 2 | 2 | 8.500 | PDC | 3.00 | AutoTrak Curve | 1650.00 | 19962.00 | 1663.00 | 19975.00 | 2026-01-18 05:25 | 2026-01-20 10:13 | 46.40 |

Crew

| Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite |
|----------------|-----------------|-----------------|---------------|-----------------|-----------------|---------------|-----------------|-----------------|
| Henry Mata | 2026-01-17 | 2026-01-20 | Jon Roop | 2026-01-17 | 2026-01-20 | Marcos Favela | 2026-01-17 | 2026-01-20 |
| Nate Krehmeyer | 2026-01-17 | 2026-01-20 | Ryan Rippetoe | 2026-01-17 | 2026-01-20 | | | |

Mud Properties Record

| Date / Time | Run No. | Depth (ft) | Mud Type | Density (ppg) | Viscosity (cP) | pH | Fluid Loss (cm3) | Oil / Water | Source | Total Chlorides (ppm) | K+ (%) |
|------------------|---------|------------|---------------------|---------------|----------------|-----|------------------|-------------|------------|-----------------------|--------|
| 2026-01-18 03:26 | 2 | 1663.00 | Synthetic Based Mud | 9.5 | 11 | N/A | 17.0 | 69.8/15.6 | Active Pit | 25753 | N/A |
| 2026-01-19 06:00 | 2 | 10056.00 | Synthetic Based Mud | 10.6 | 13 | N/A | 3.0 | 65.4/15.4 | Active Pit | 26239 | N/A |

Equipment and Service Data

| Run No. | Tool | Serial Number | Measurement | Sensor Offset (ft) | Bit Offset (ft) | Max O.D. (in) | Min I.D. (in) |
|---------|--------------------|---------------|----------------------|--------------------|-----------------|---------------|---------------|
| 2 | Lucida_SU | 16020206 | Near Bit Inclination | 5.93 | 6.83 | 7.000 | 4.330 |
| 2 | Lucida_SU | 16020206 | Near Bit VSS | 5.93 | 6.83 | 7.000 | 4.330 |
| 2 | AutoTrak Curve MWD | 14256861 | Gamma (single) | 2.20 | 13.10 | 7.000 | 3.250 |
| 2 | AutoTrak Curve MWD | 14256861 | Directional (mag) | 12.27 | 23.17 | 7.000 | 3.250 |

Service and Tool Mnemonics

| Mnemonic | Name | Description |
|----------|---------------------|----------------------|
| ATC MWD | AutoTrak Curve MWD | Auto Trak Curve MWD |
| ATC LCPM | AutoTrak Curve LCPM | Auto Trak Curve LCPM |

Comments

- Baker Hughes Company run 2 utilized 6 3/4-inch NaviGamma services (Gamma Ray and Directional) behind an 8 1/2-inch PDC bit and rotary steerable assembly from 1663 to 19975 feet MD (1624 to 6997 feet TVD).
- Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to a lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to present logging data.

Remarks

| Number | Depth (ft) | Hole Section (in) | Run No. | Remark |
|--------|------------|-------------------|---------|---|
| 1 | 19962.00 | 8.500 | 2 | The interval from 19962 to 19975 feet MD (6997 to 6997 feet TVD) was not logged due to sensor to bit offset at well TD. |

Curve Mnemonics

| Presented Curves | Description | Units |
|------------------|--|-----------|
| ROP_AVG | Rate of Penetration of bit, Average | ft/h |
| TVD | True Vertical Depth | ft |
| WOB_AVG | Weight On Bit, Average | klb |
| GRAM | Gamma Ray - Apparent - Memory 0.5 ft Average | API |
| CRIM | Gamma Ray - Data Point Indicator - Memory | unitsless |

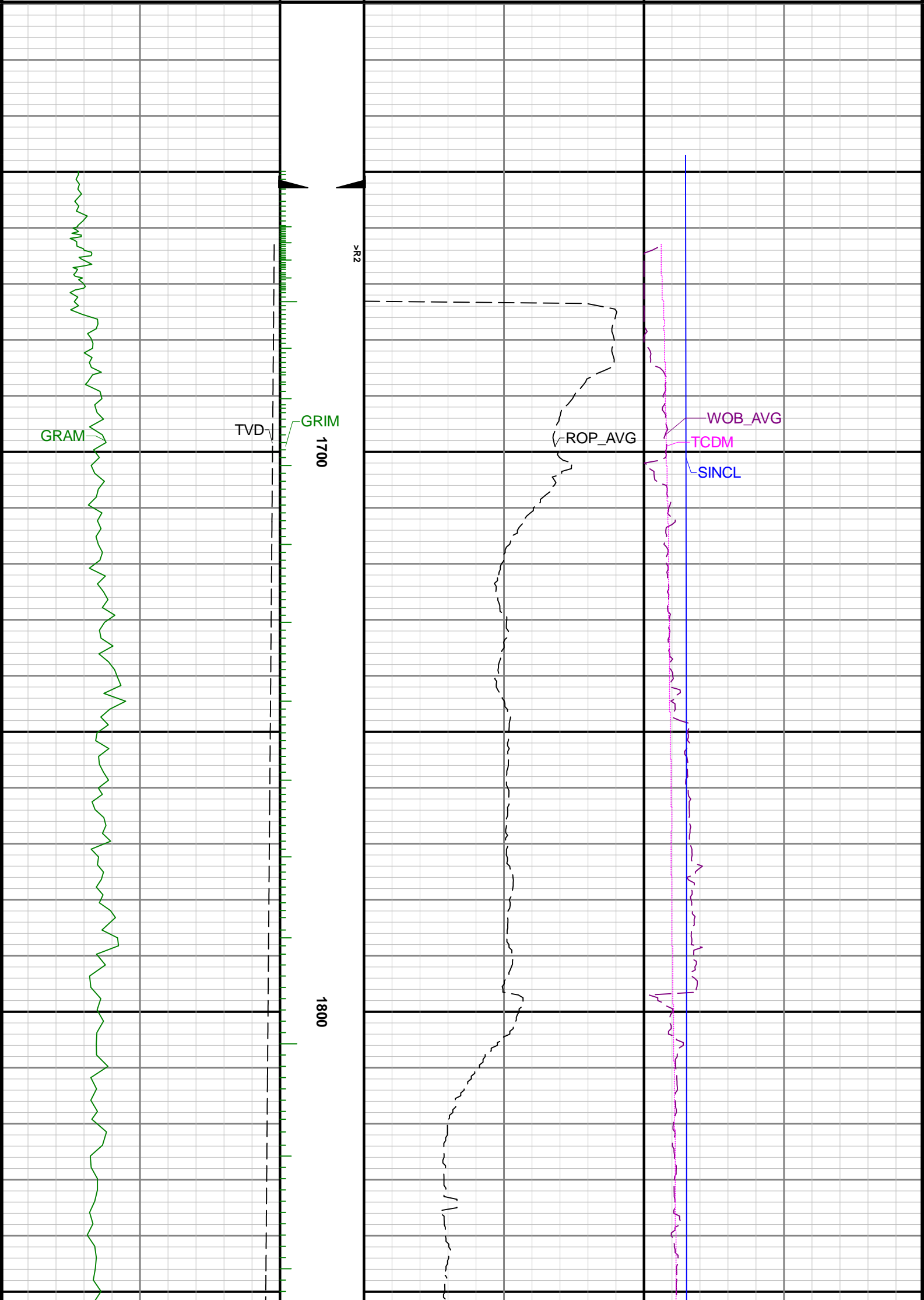
| | | |
|-------|---|----------|
| GRIM | Gamma Ray - Data Point Indicator - Memory | unitless |
| TCDM | Downhole Temperature - Memory | degF |
| SINCL | Survey Inclination | deg |

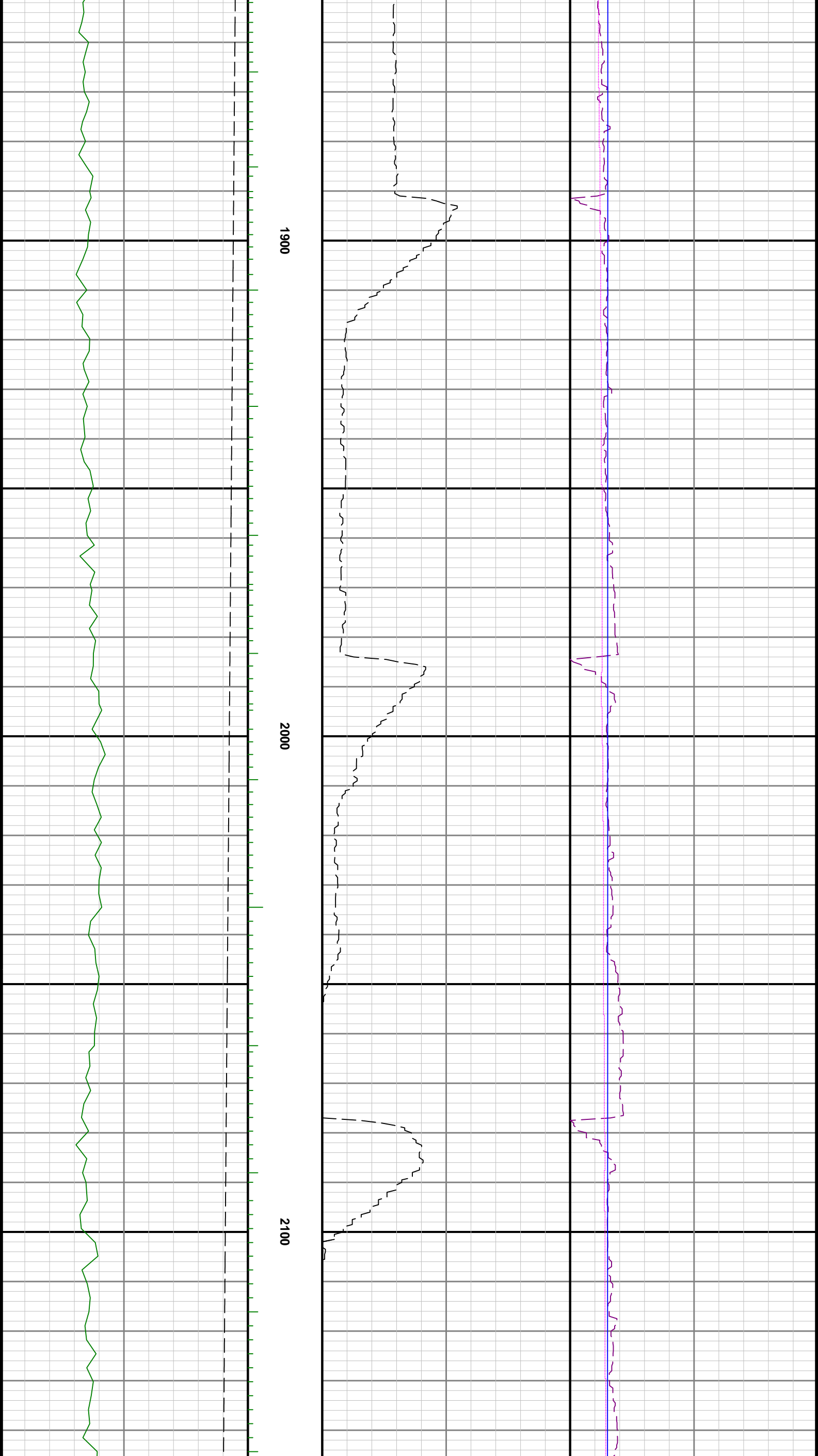


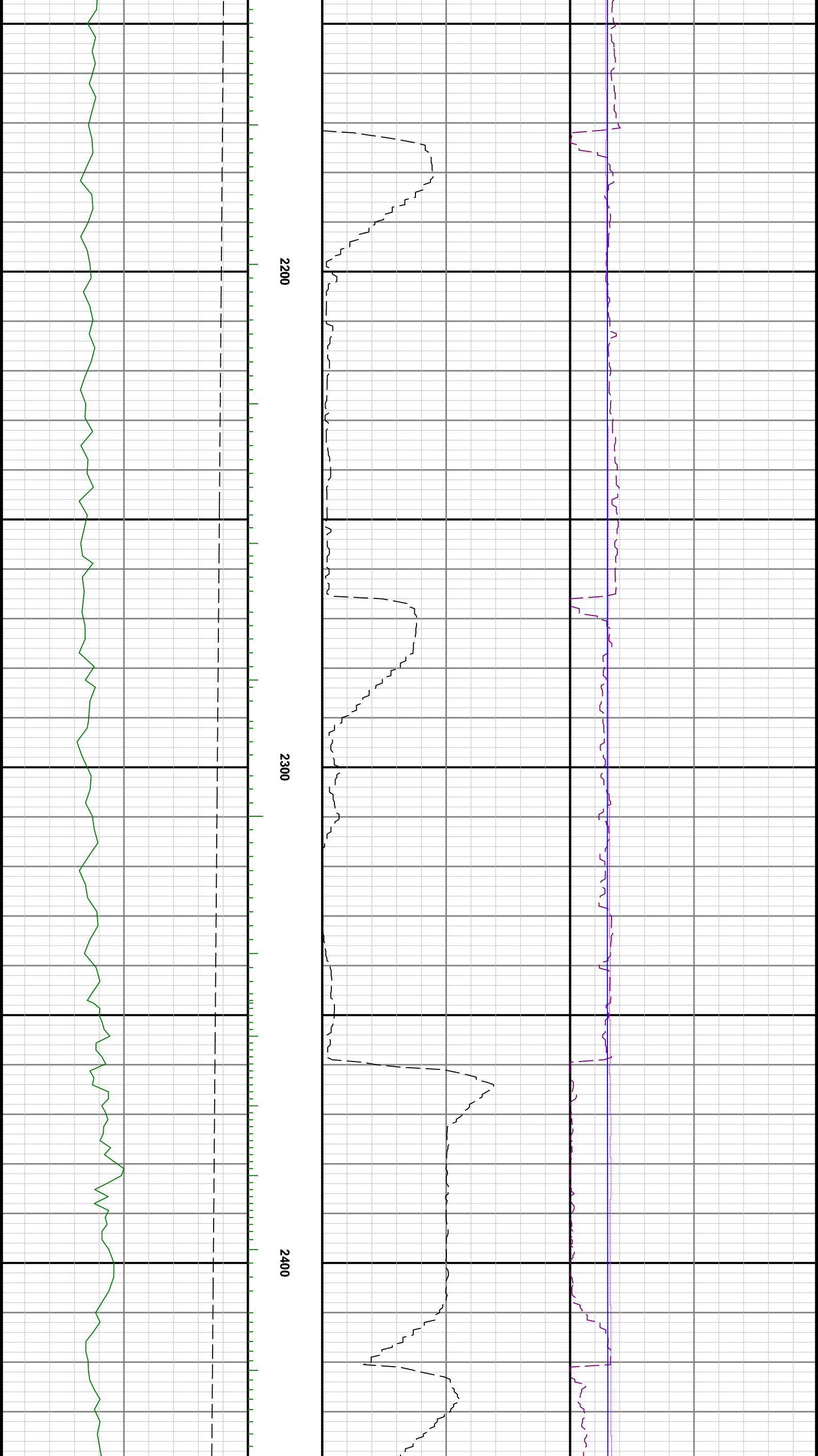
Company PDC Energy Inc
Well Blackburn 01N
Interval
Created 2026-01-20 22:32:49

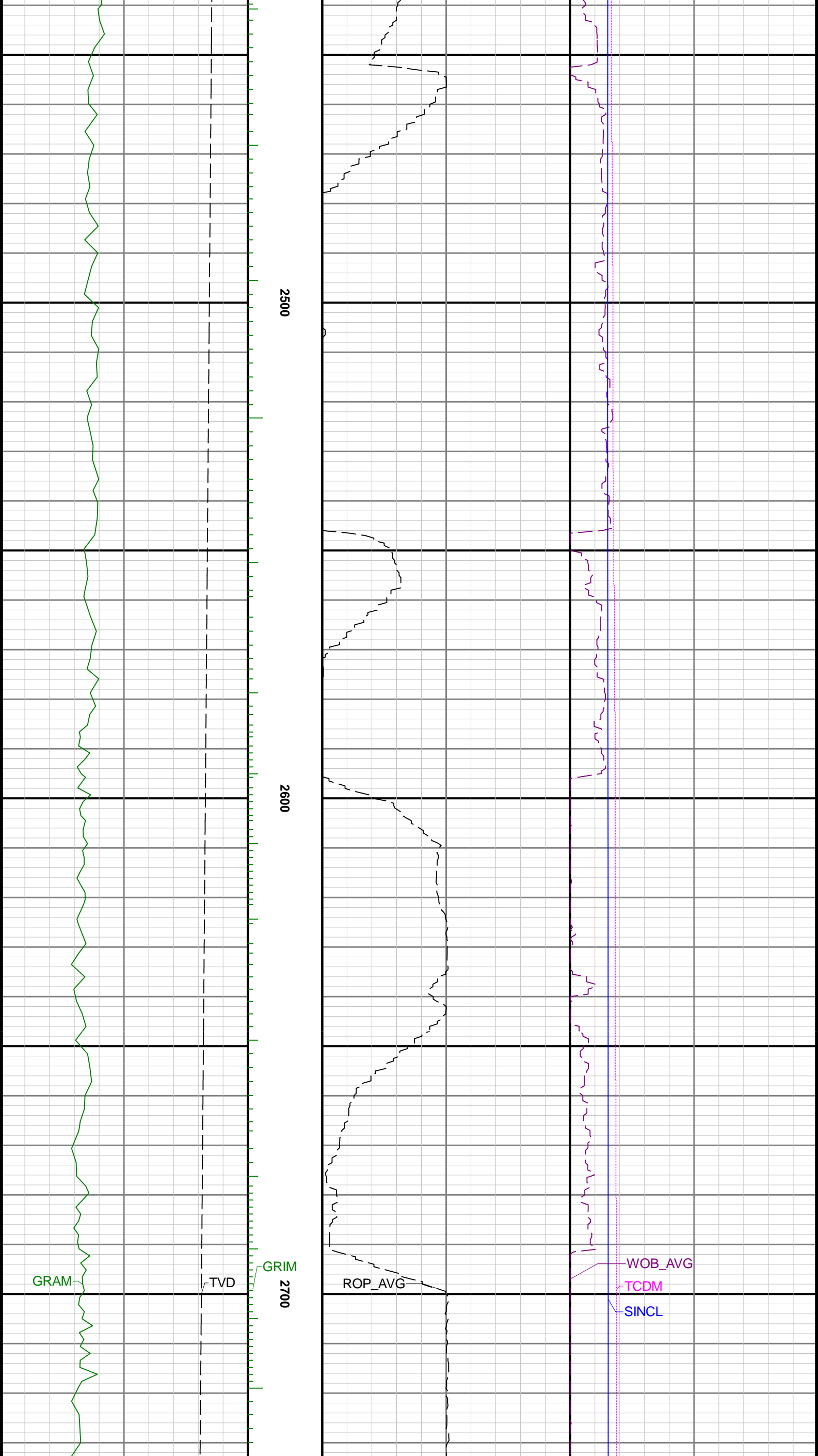
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Date To: 2026-01-20 10:13 **Interval Logged: (ft)** 1650.00 - 19962.00

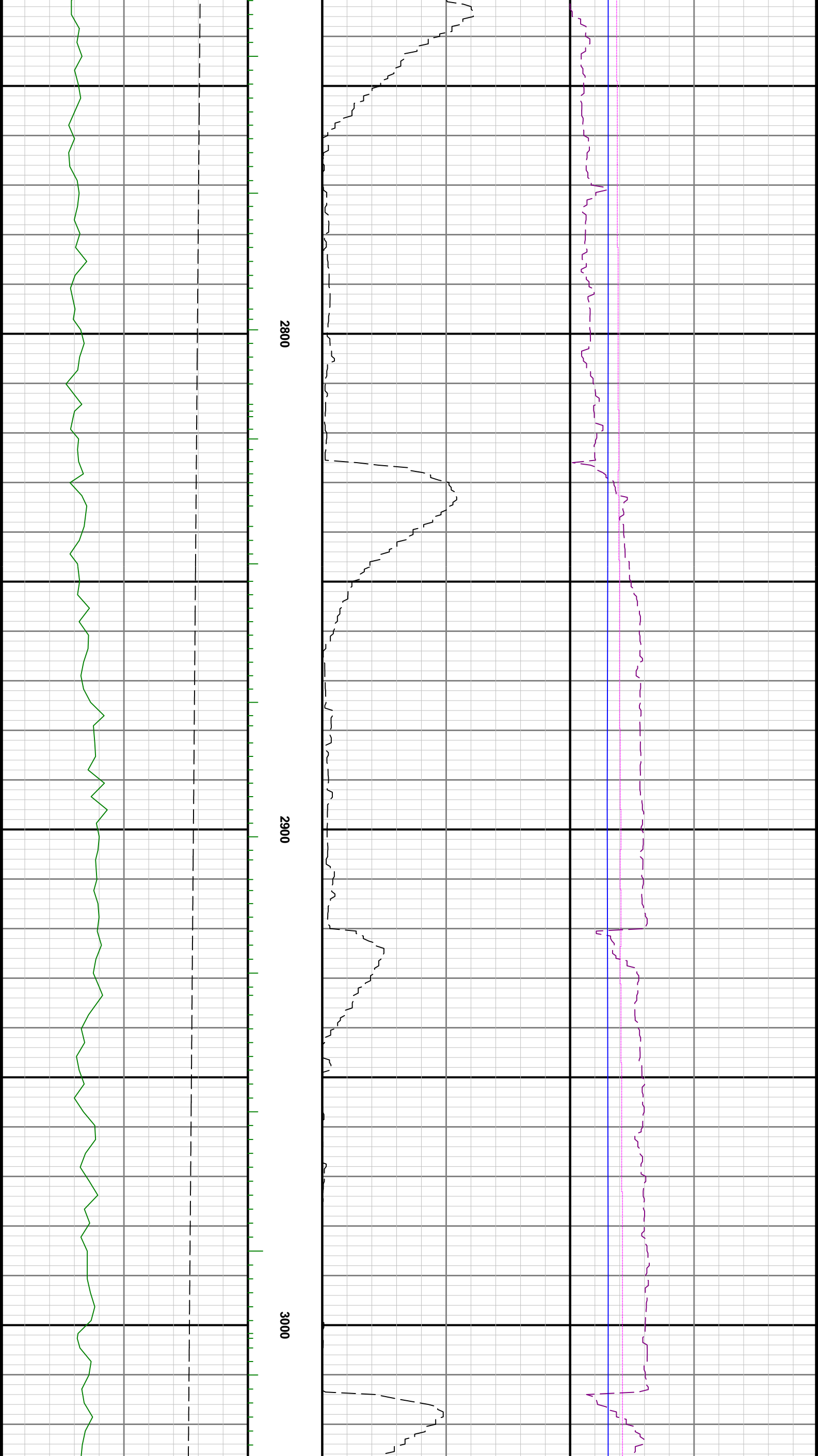
| | | | |
|---|----------------------|---|--|
| Gamma Ray - Apparent 0.5 ft Average GRAM 0 300 API True Vertical Depth TVD 7500 1500 ft | MD 1:240 feet | Rate of Penetration 0.5 ft Average ROP_AVG 1000 0 ft/h | Weight on Bit 0.5 ft Average WOB_AVG 0 100 klb Downhole Temperature TCDM 50 350 degF Survey Inclination SINCL 0 100 deg |
|---|----------------------|---|--|

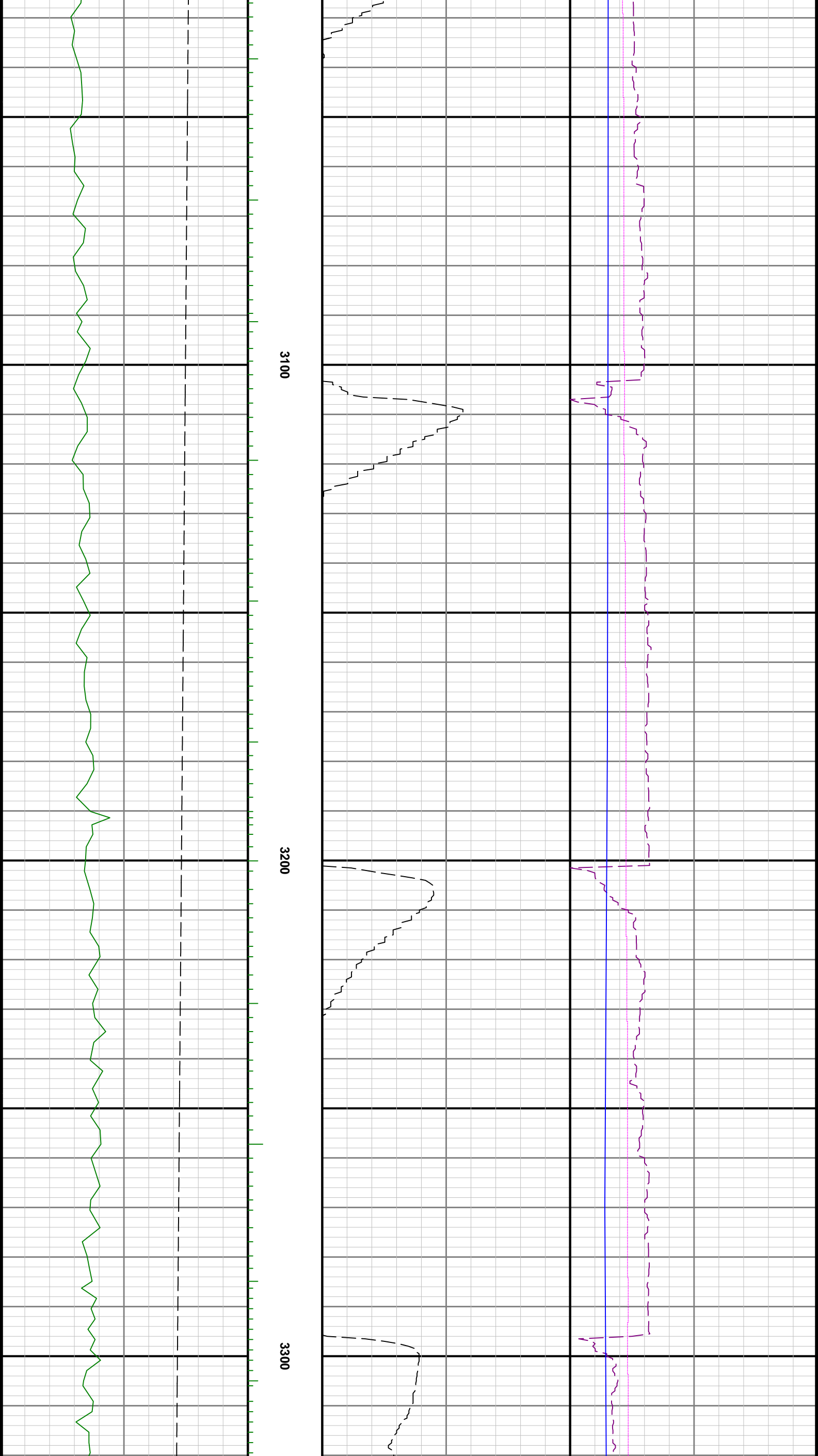


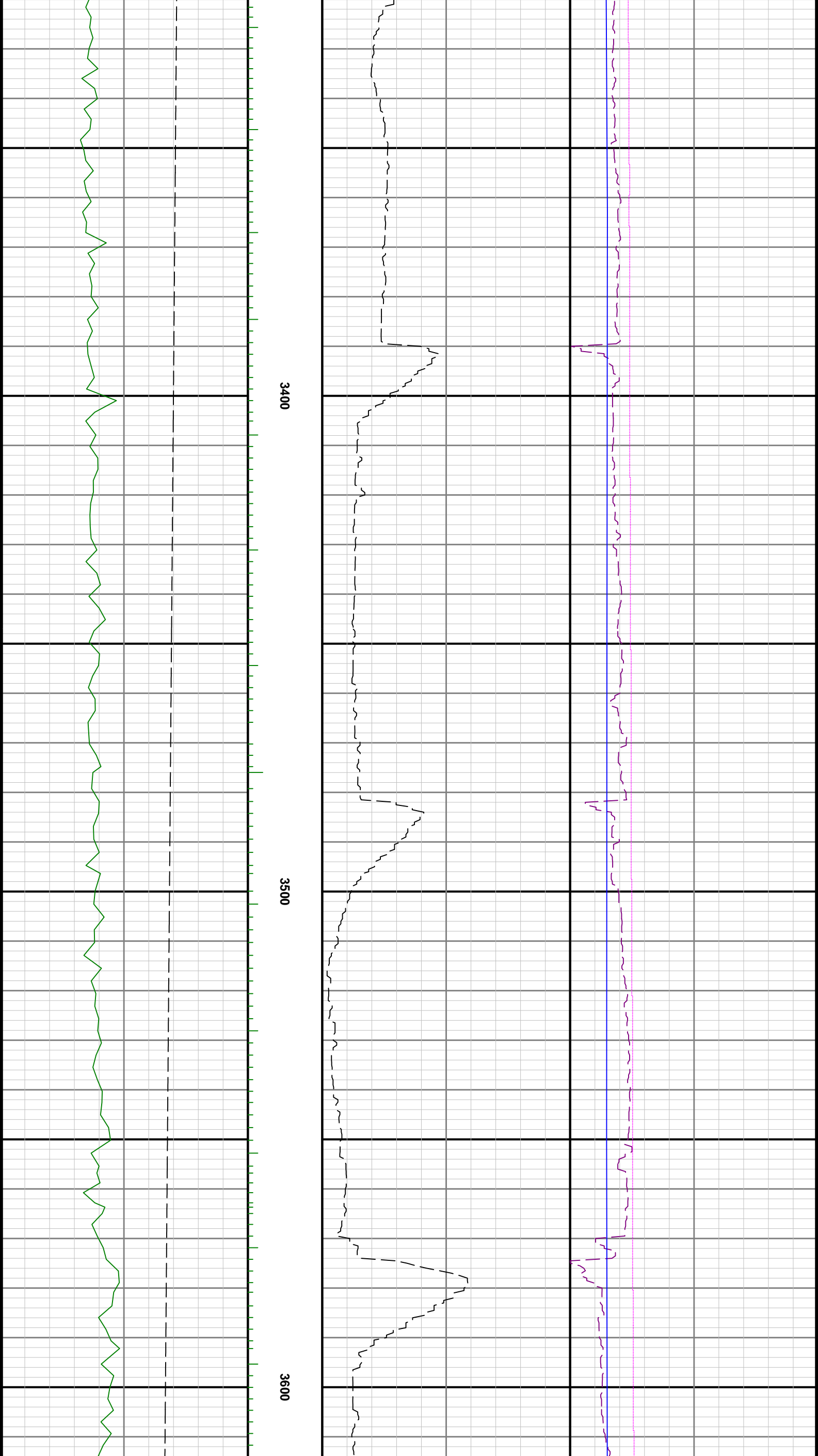


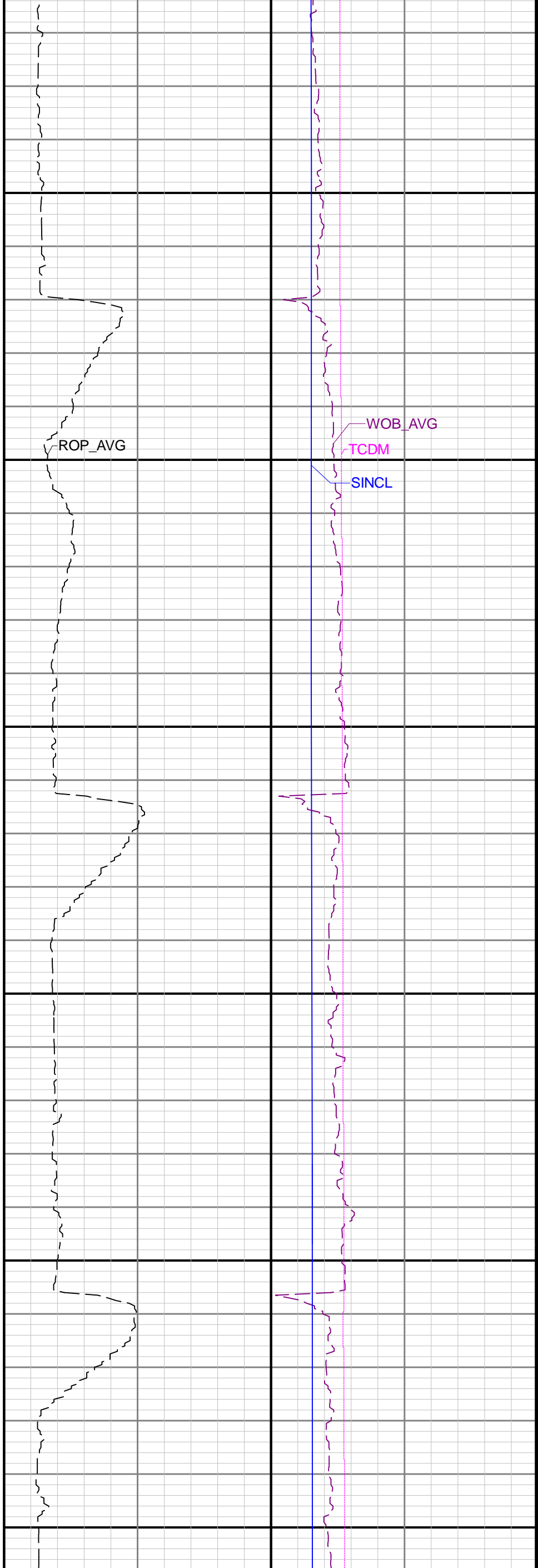
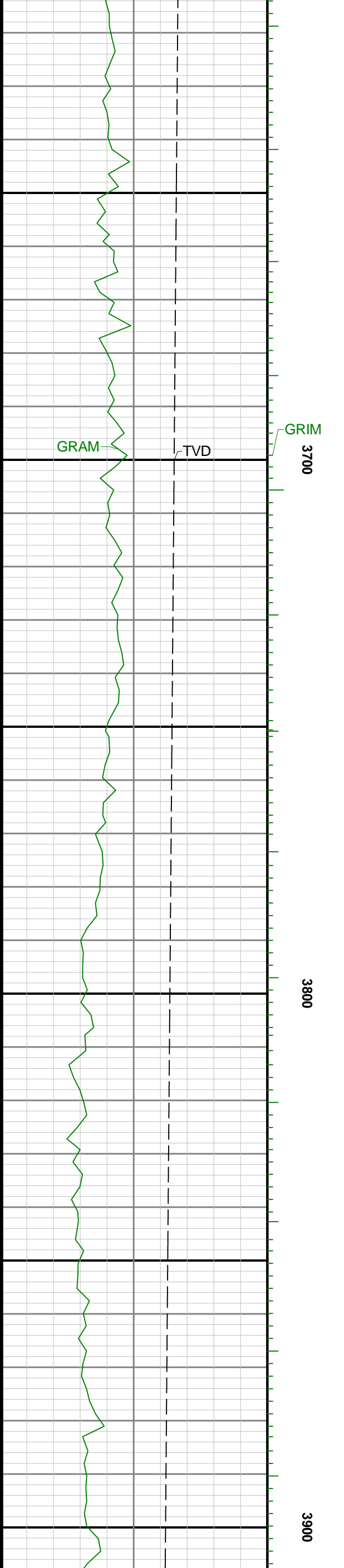


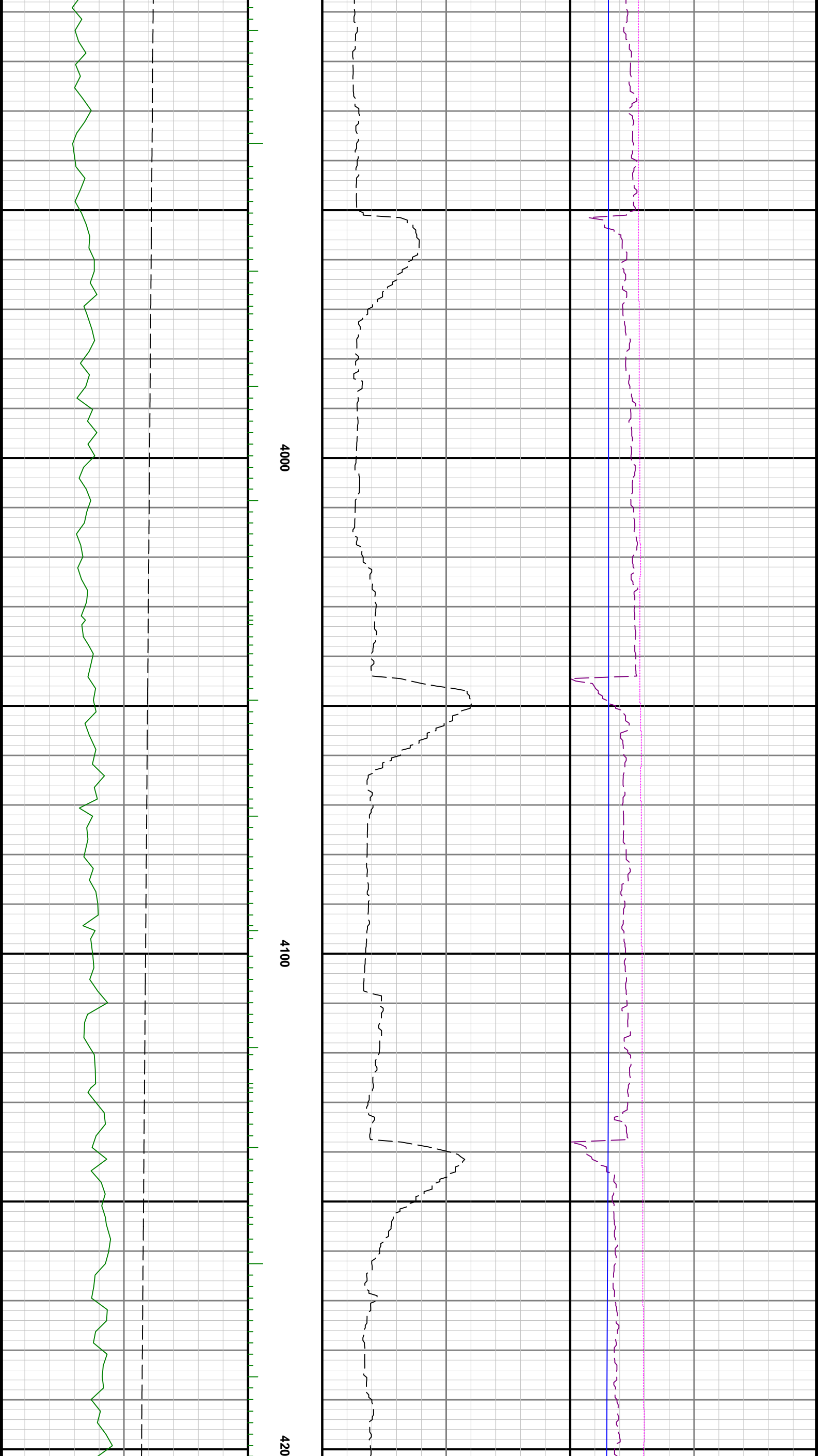


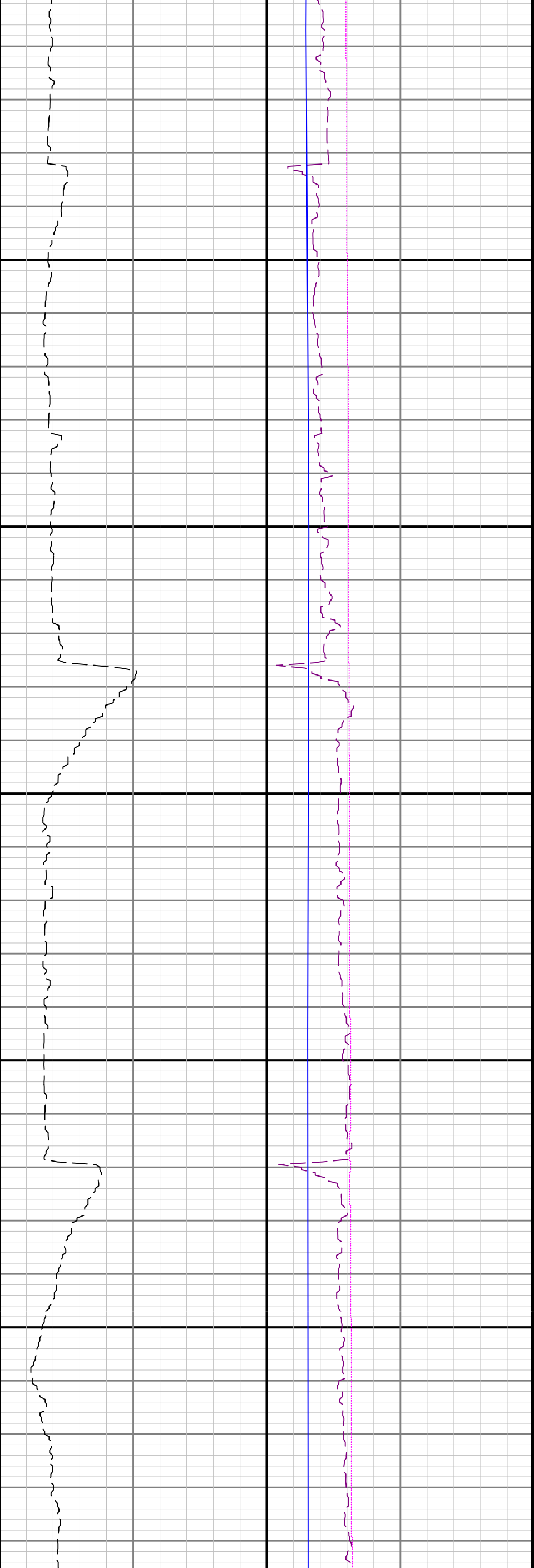






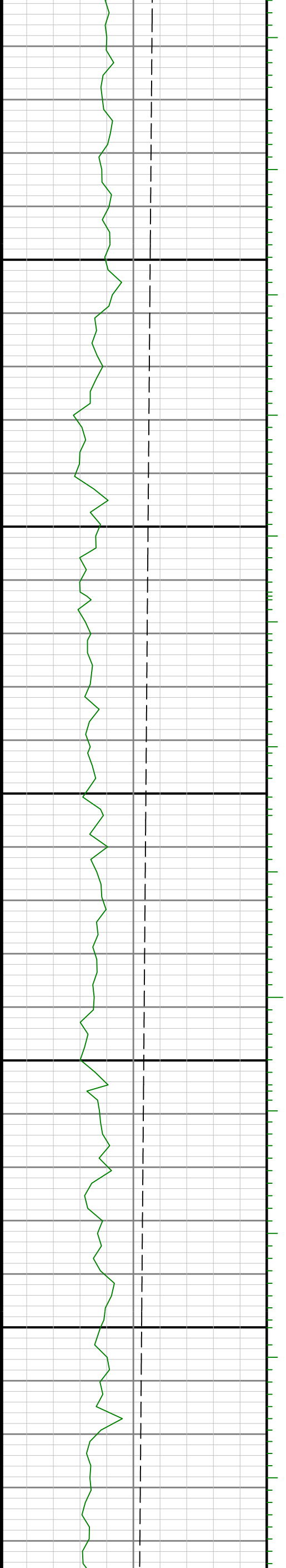


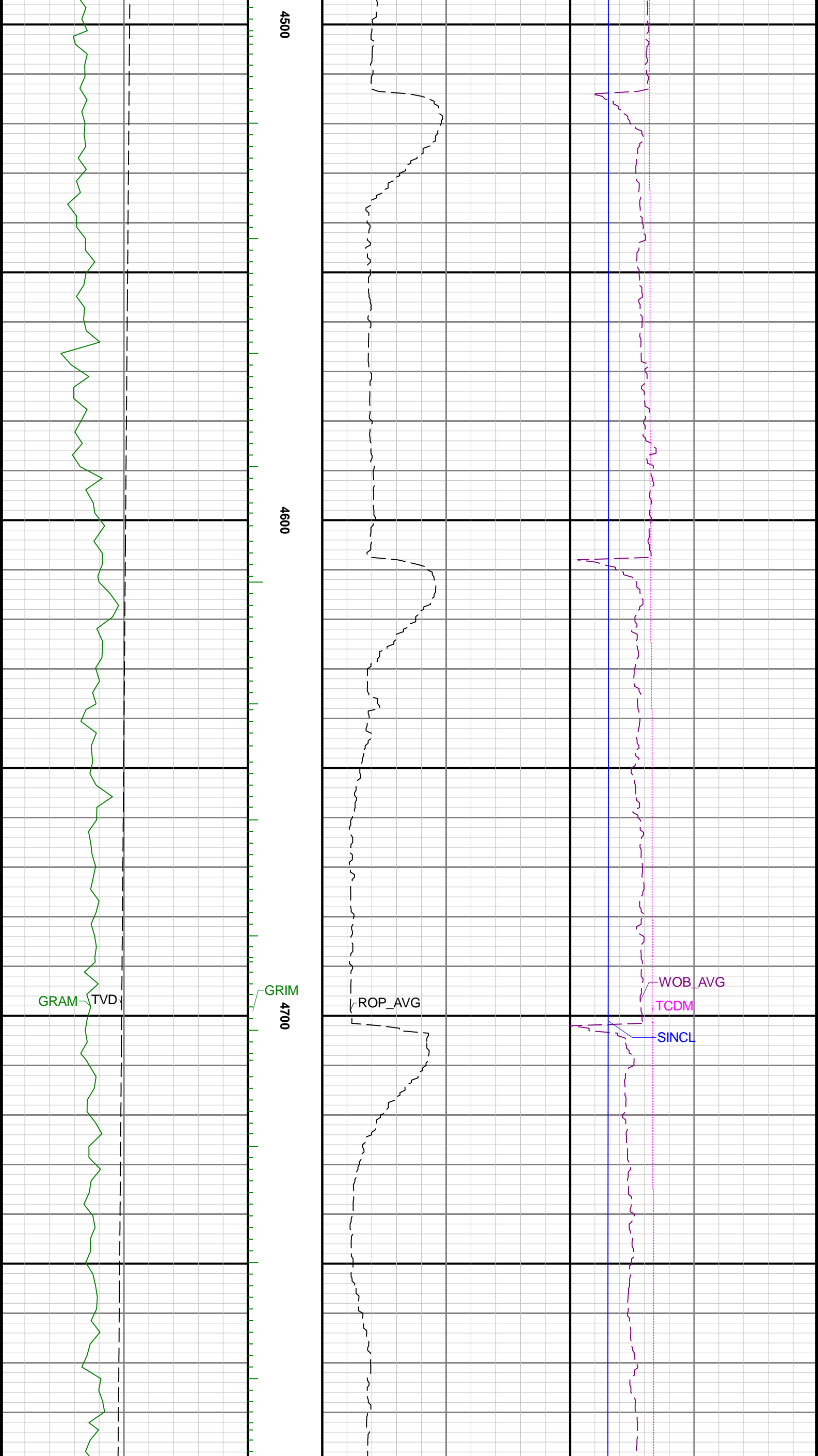




4300

4400





4500

4600

4700

GRAM TVD

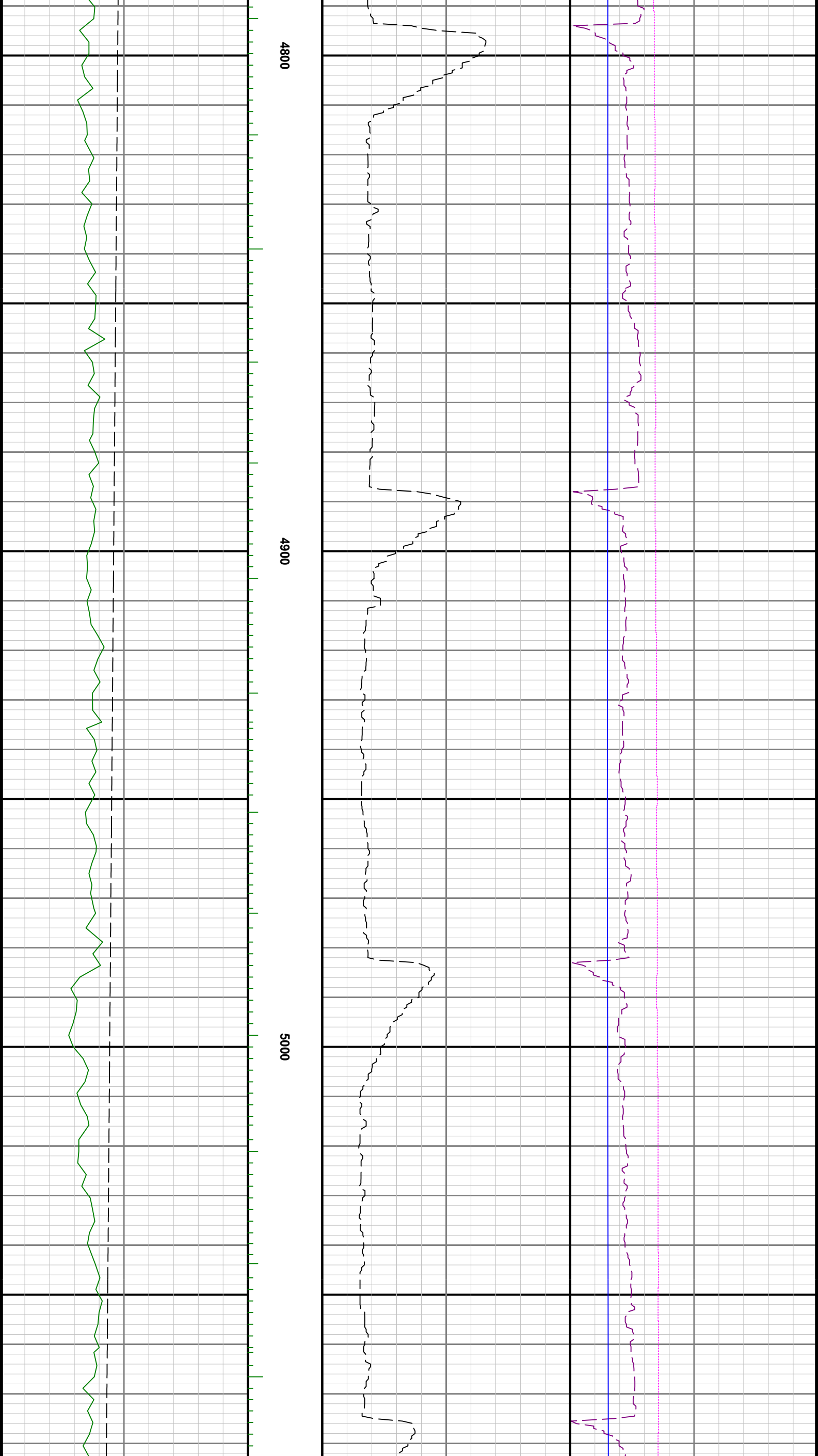
GRIM

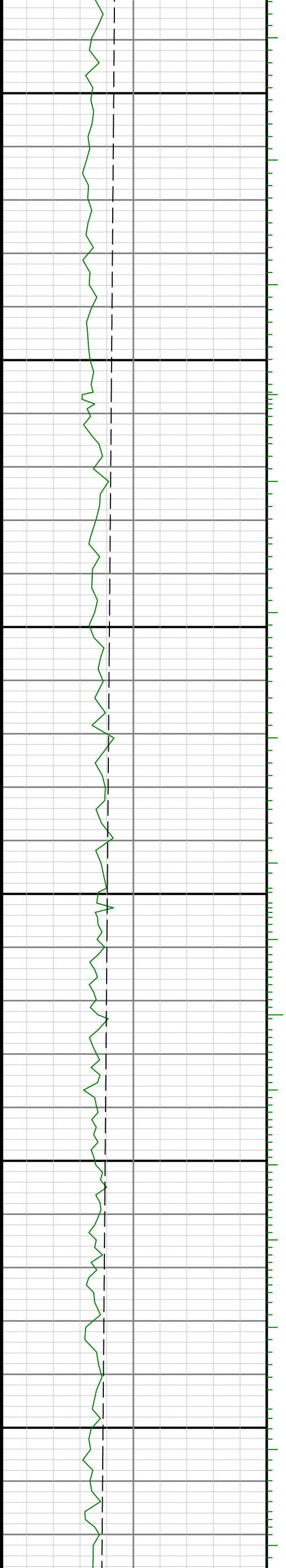
ROP_AVG

WOB_AVG

TGDM

SINCL

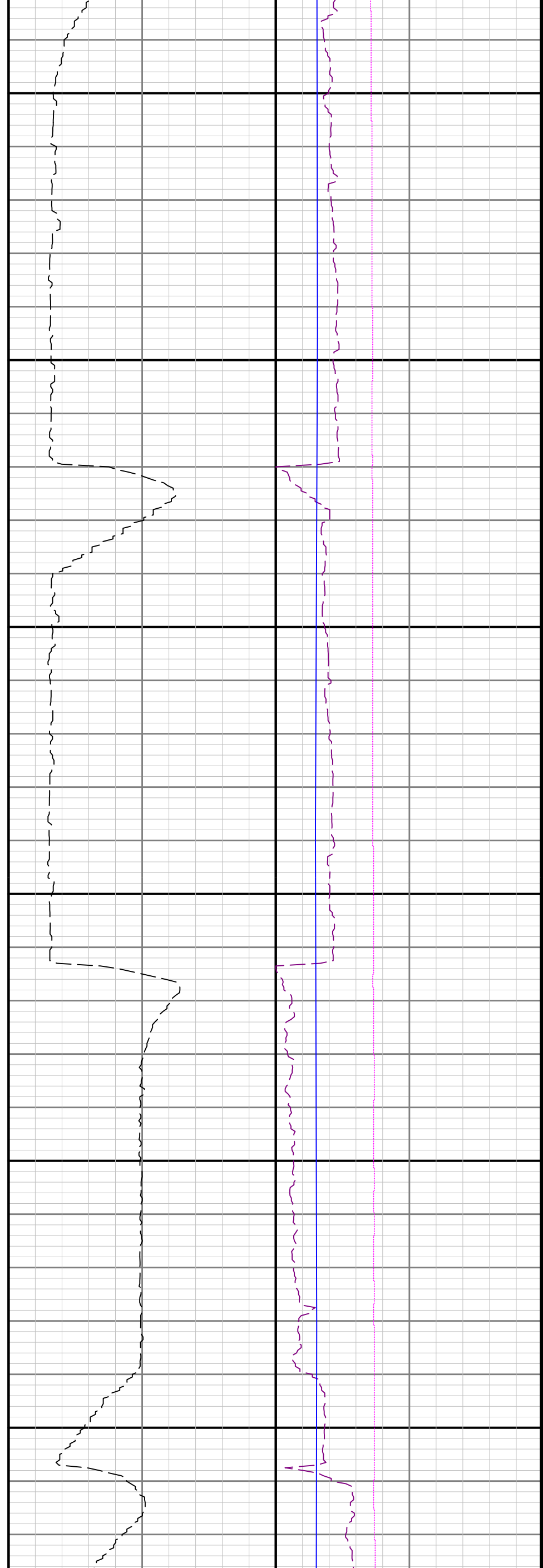


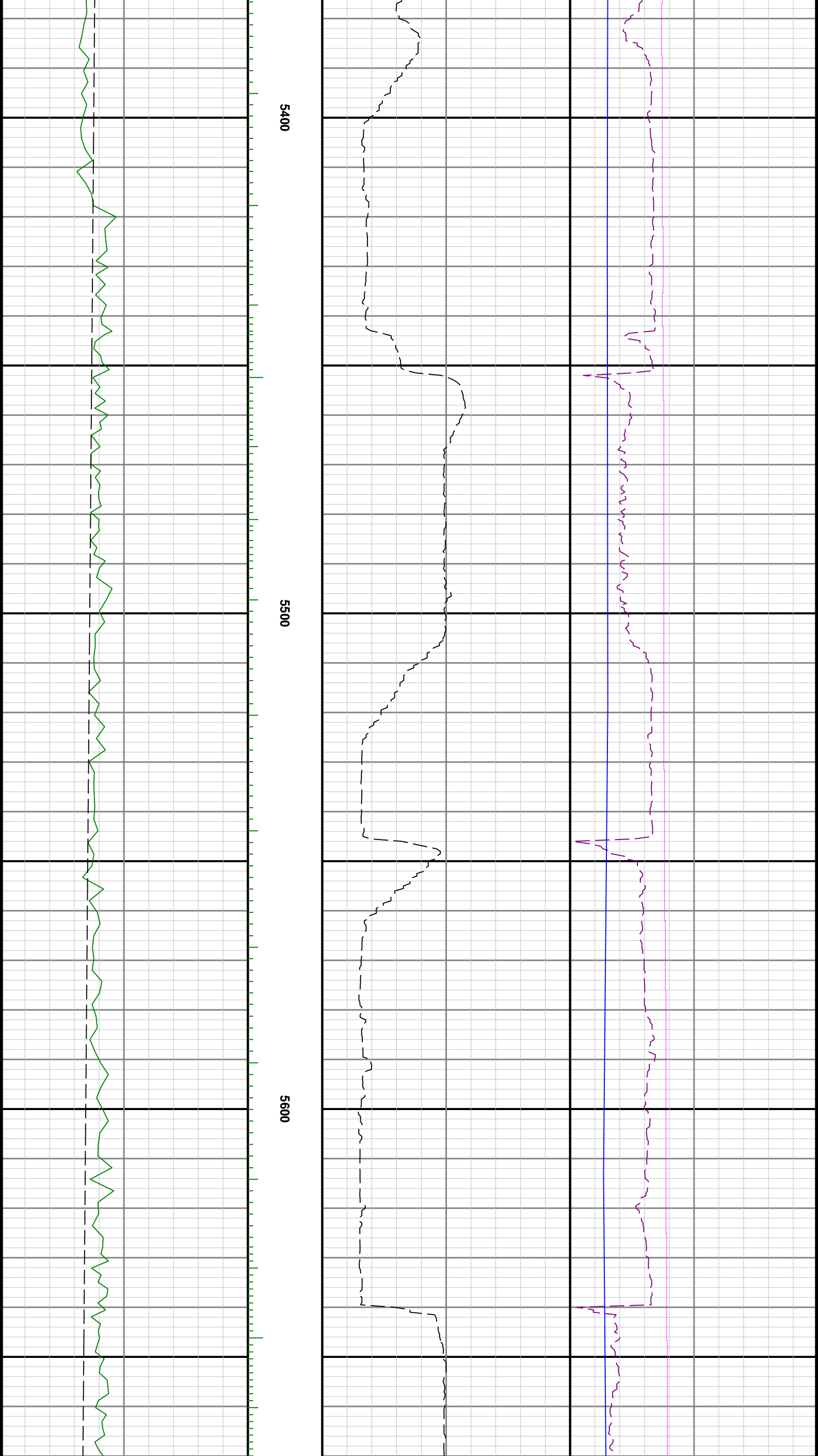


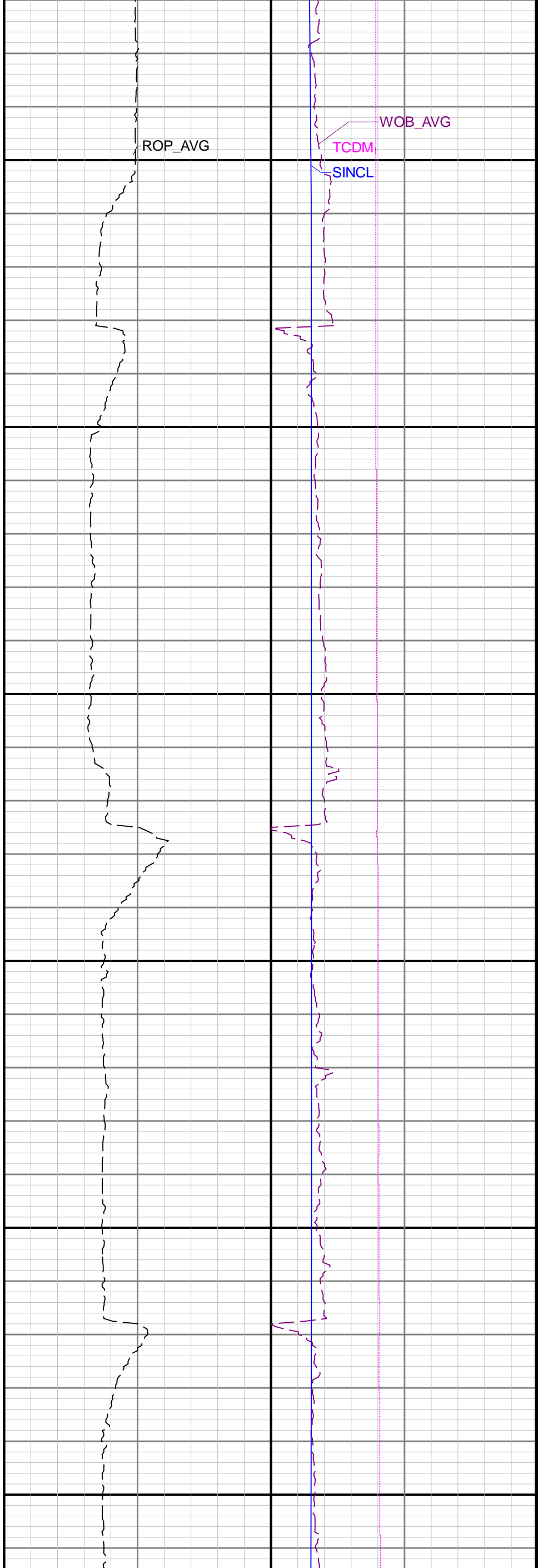
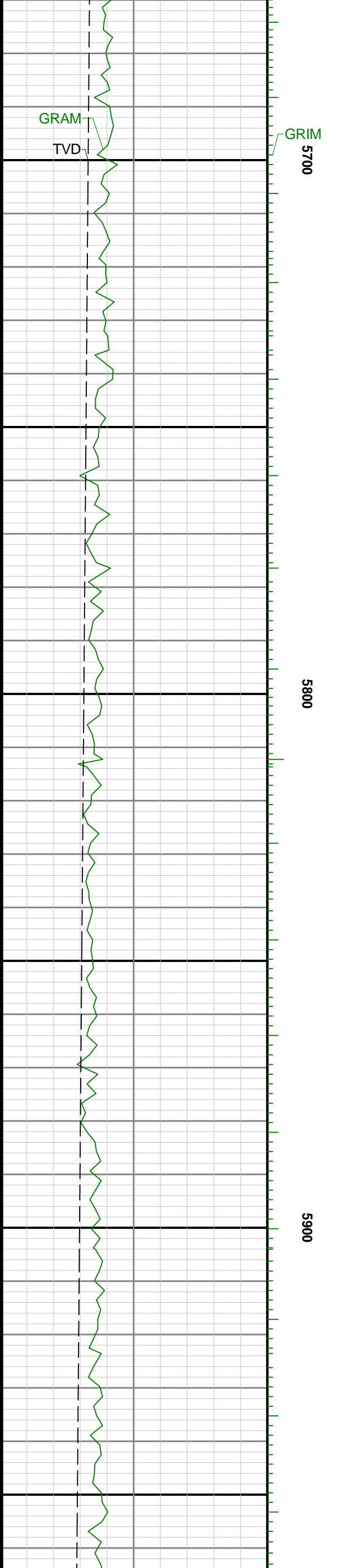
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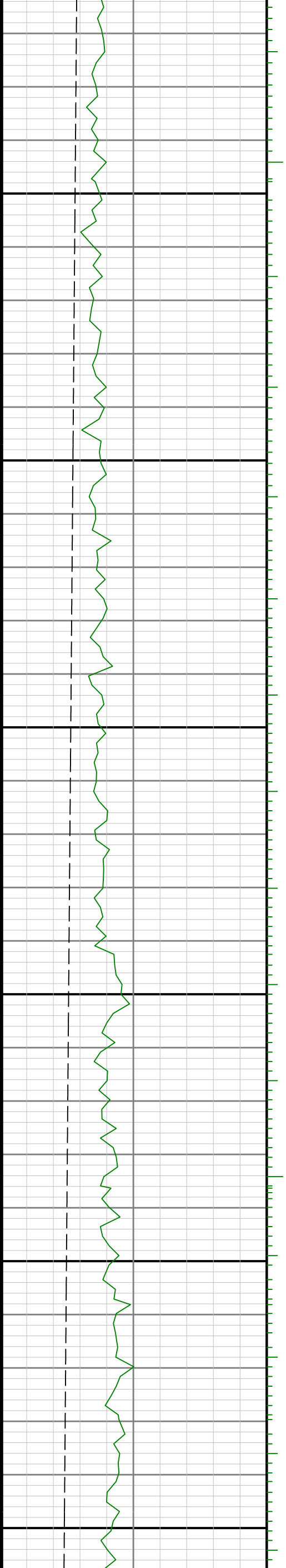
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5300





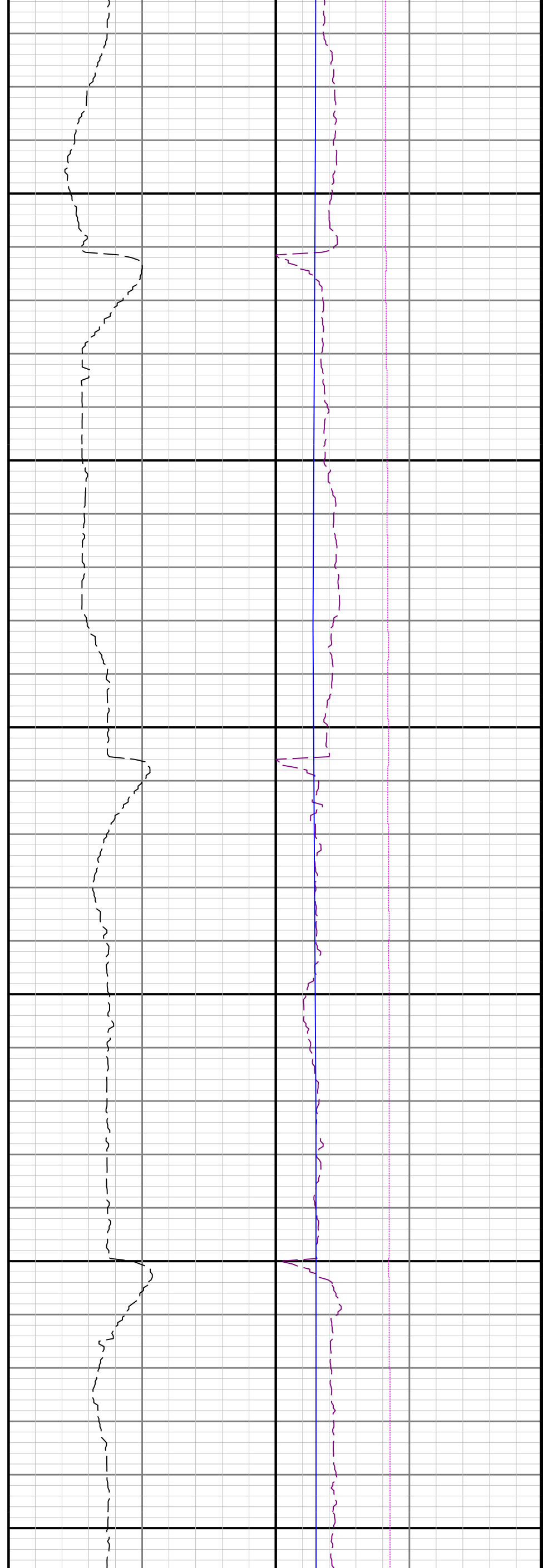


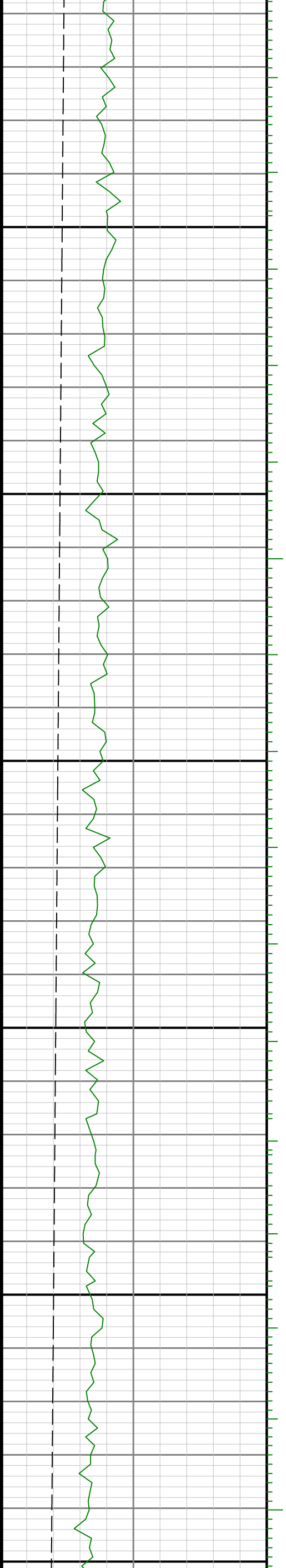


6000

6100

6200

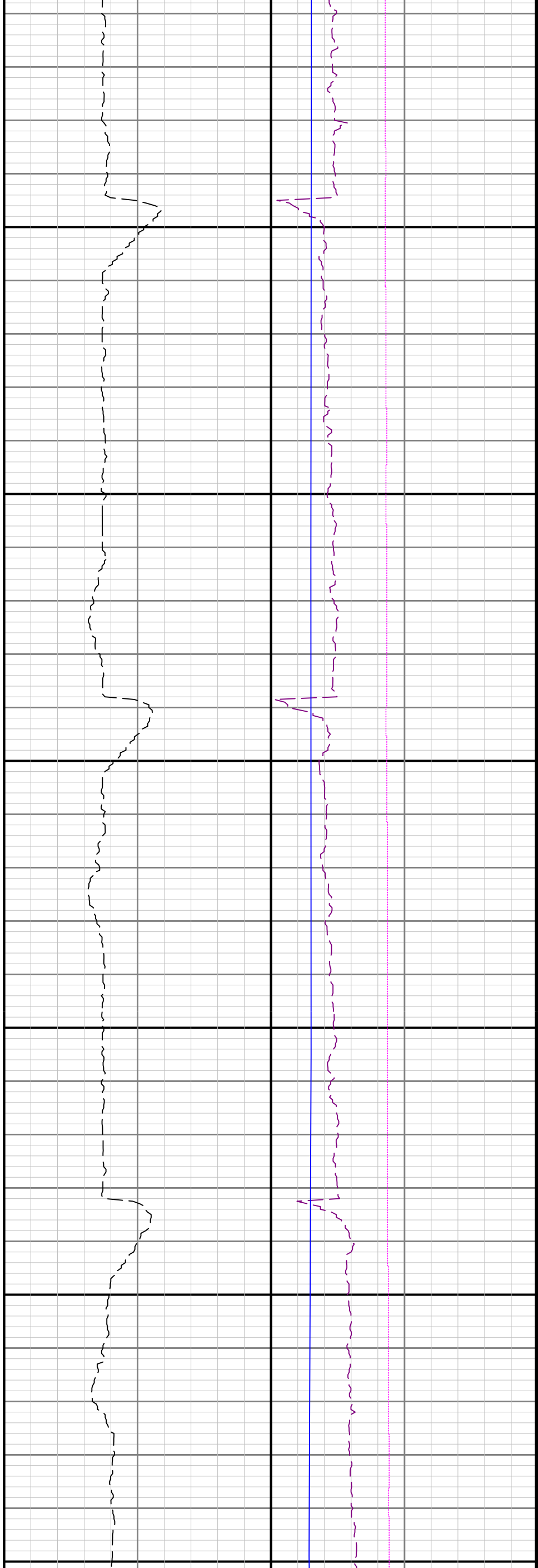


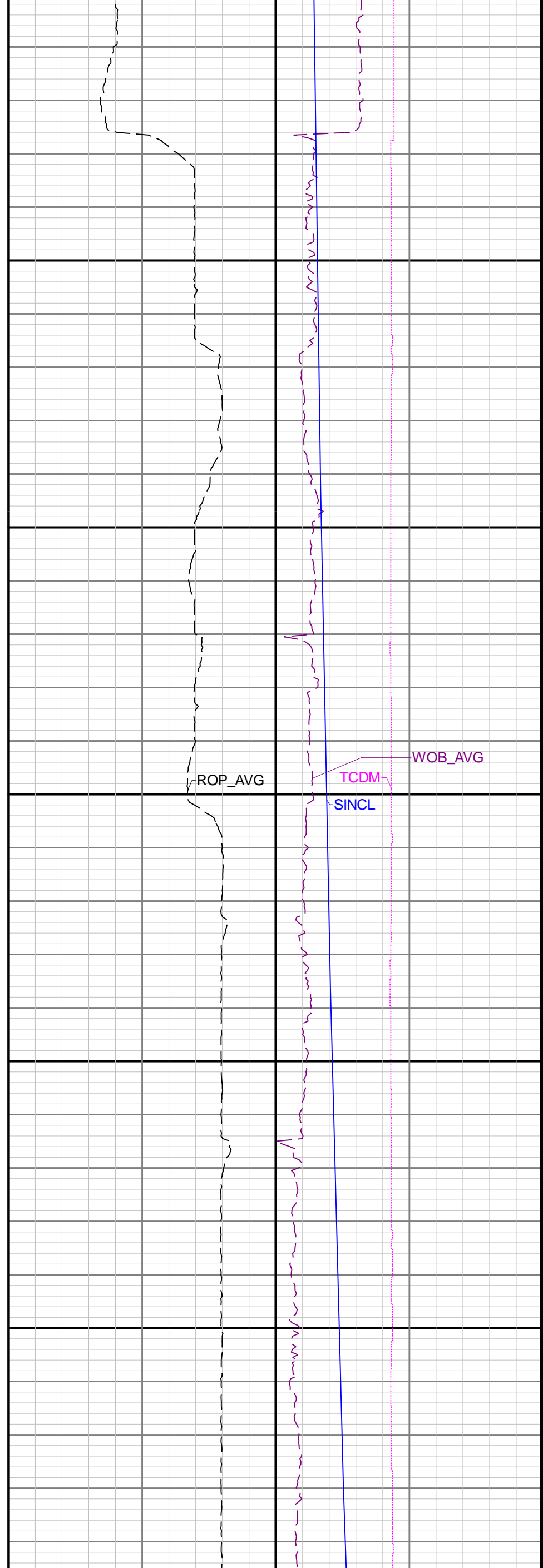
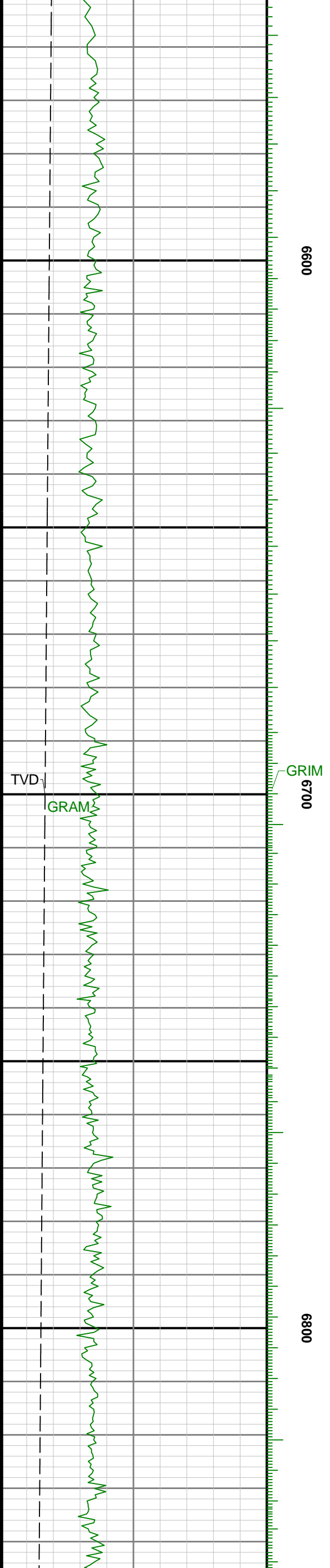


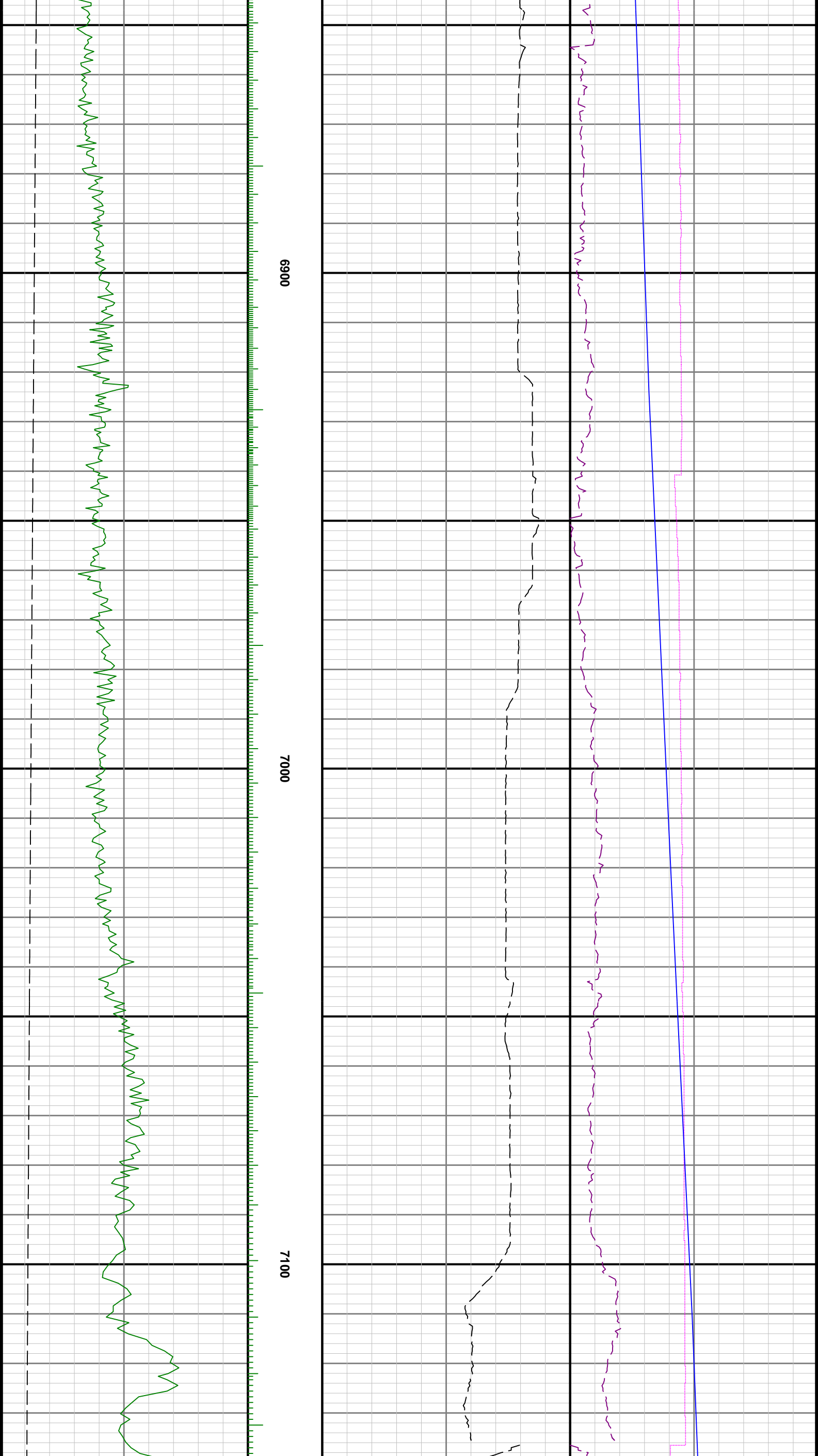
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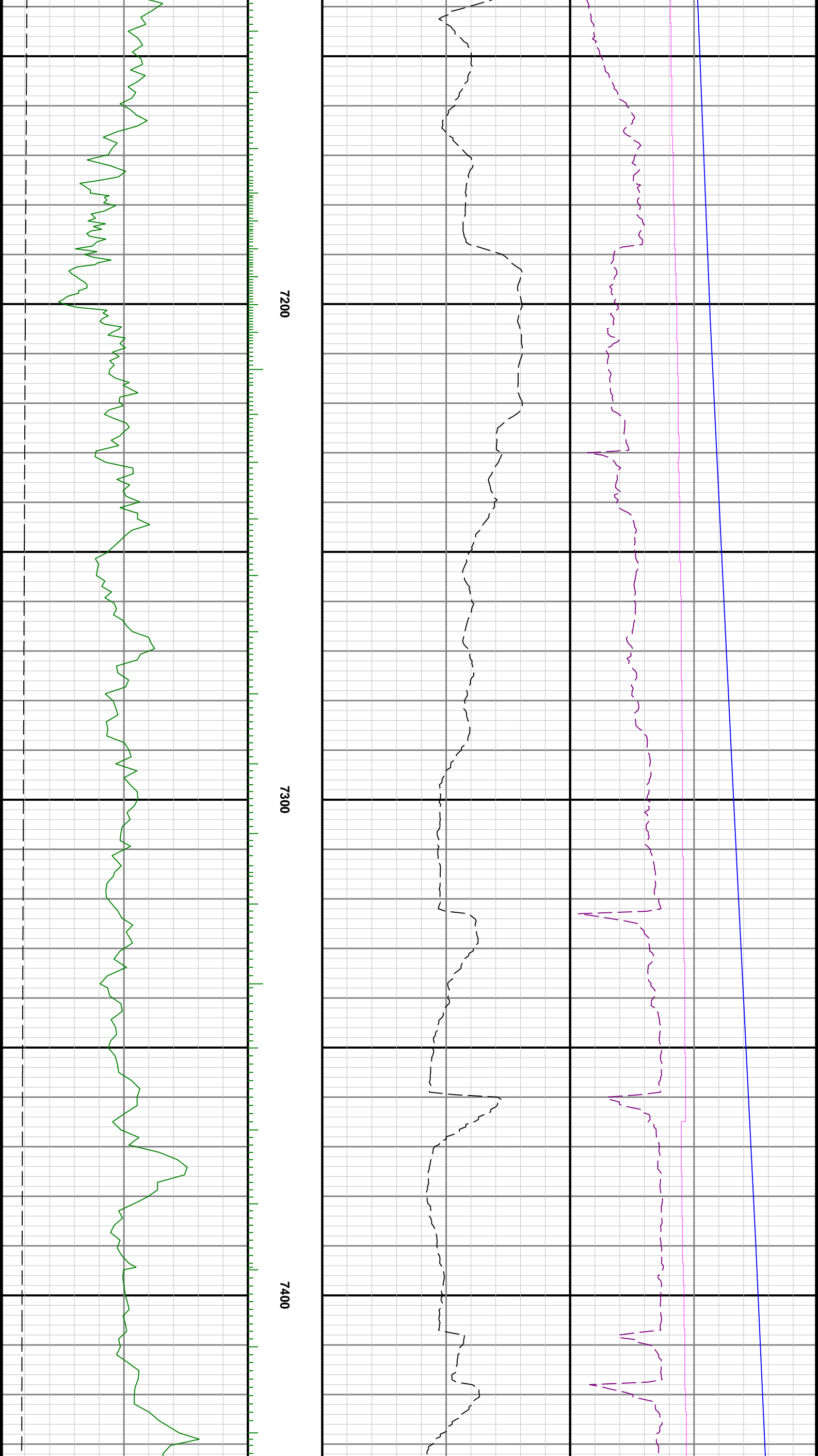
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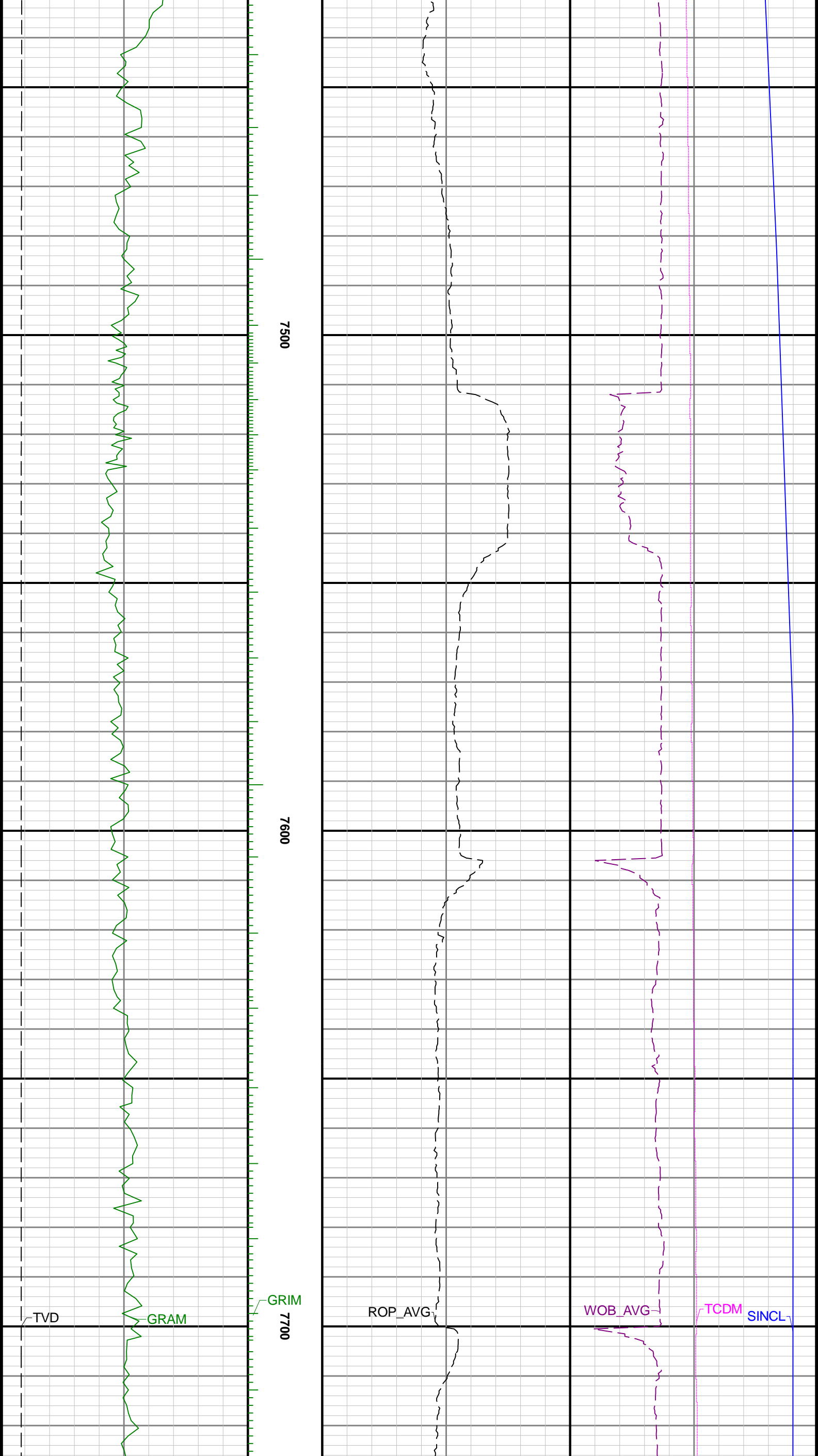
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7500

7600

7700

TVD

GRAM

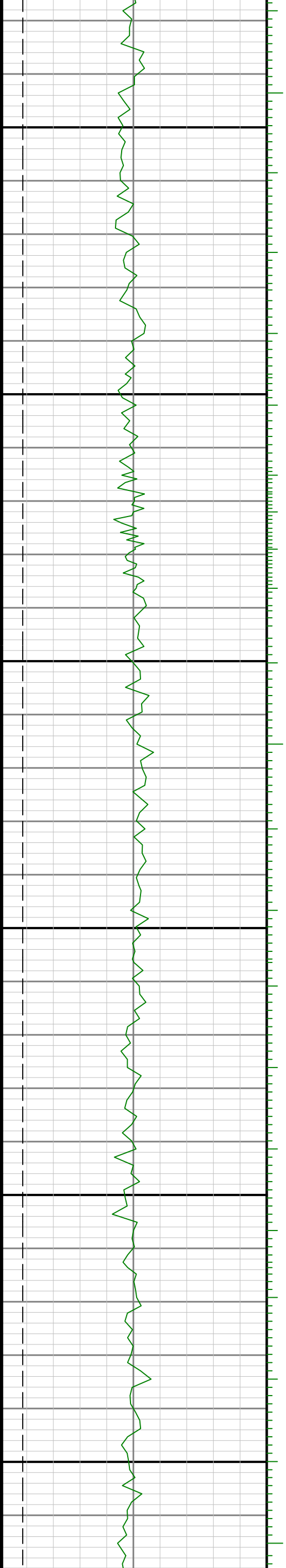
GRAM

ROP_AVG

WOB_AVG

TCDM

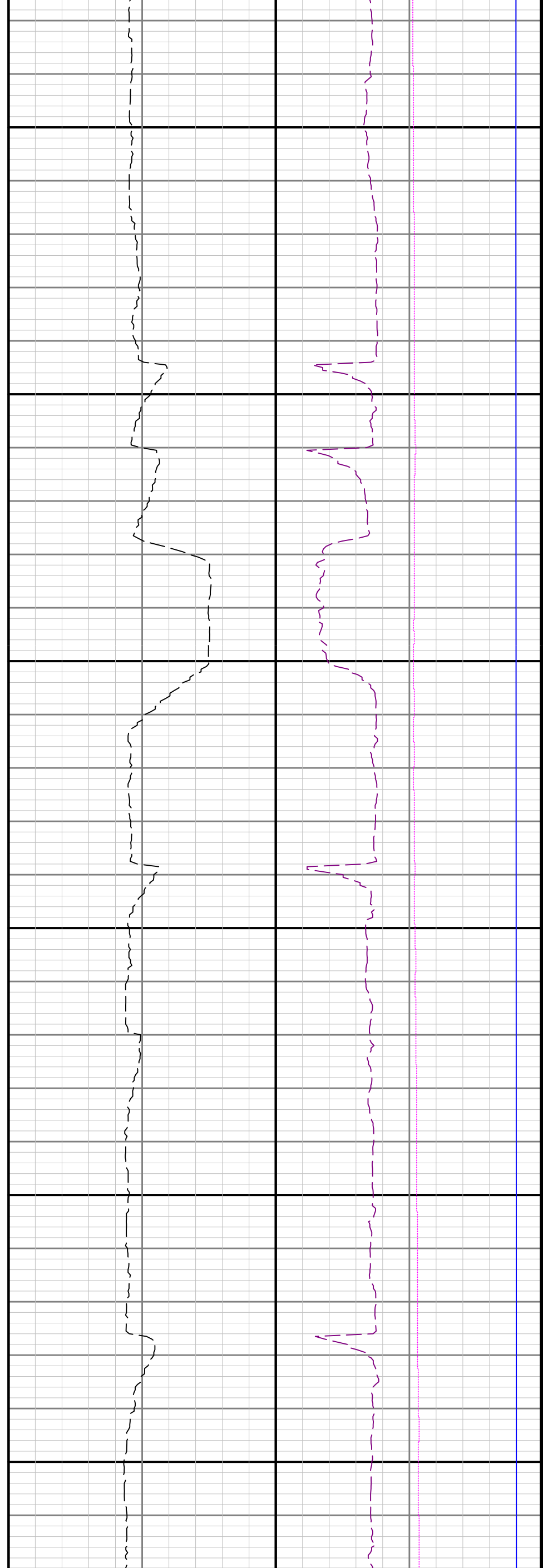
SINCL

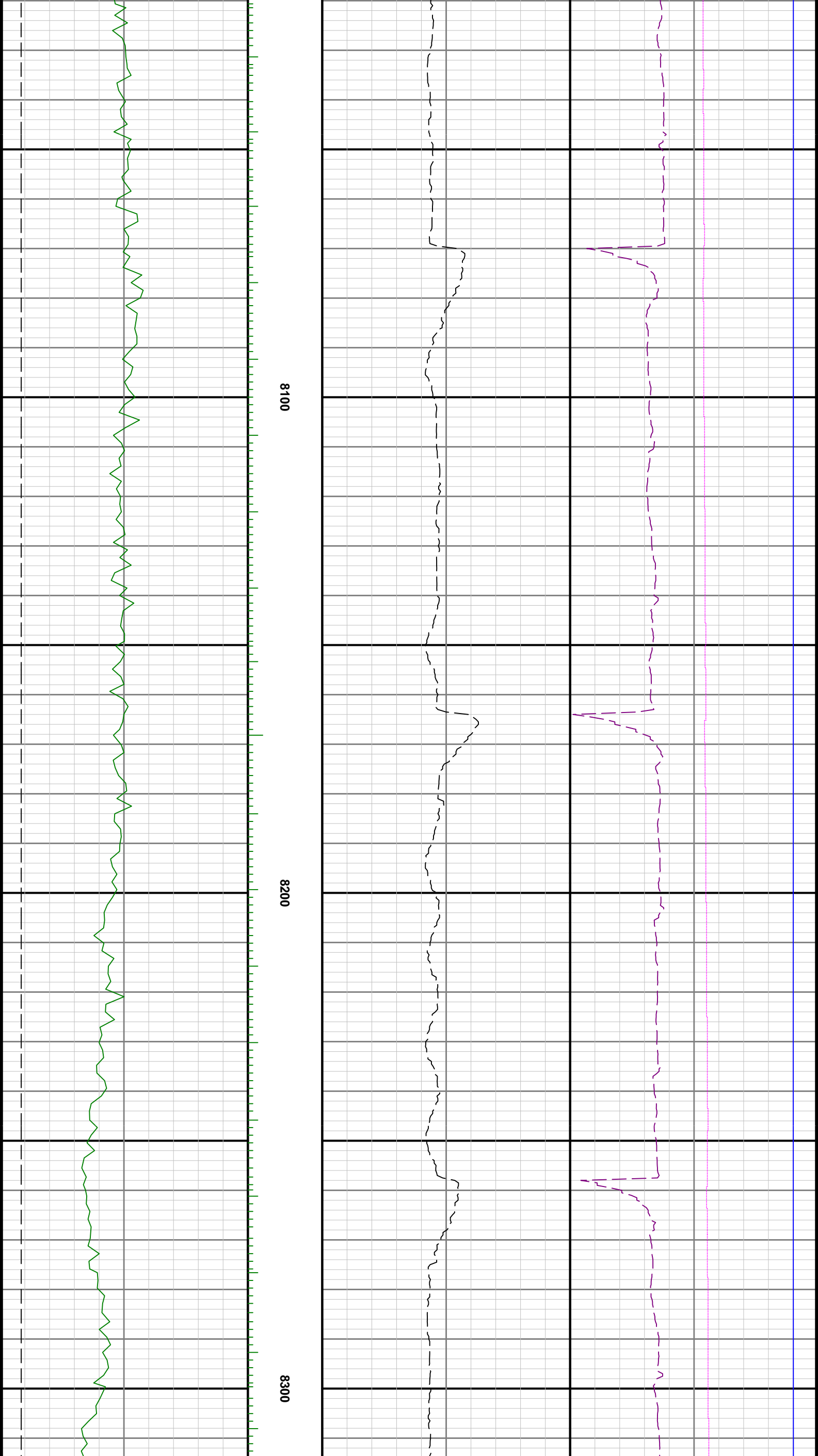


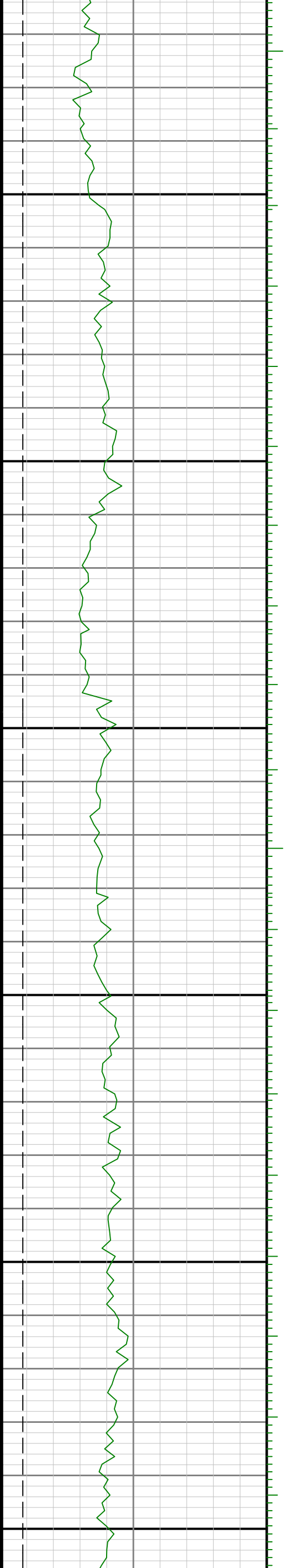
7800

7900

8000



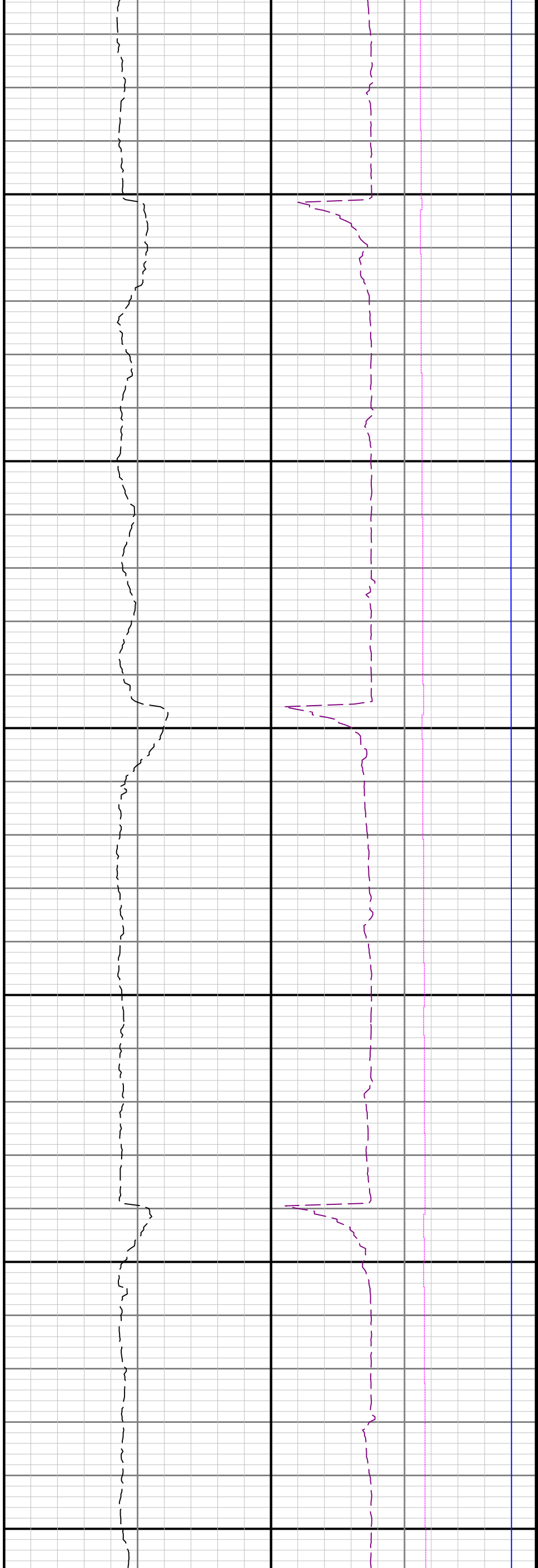


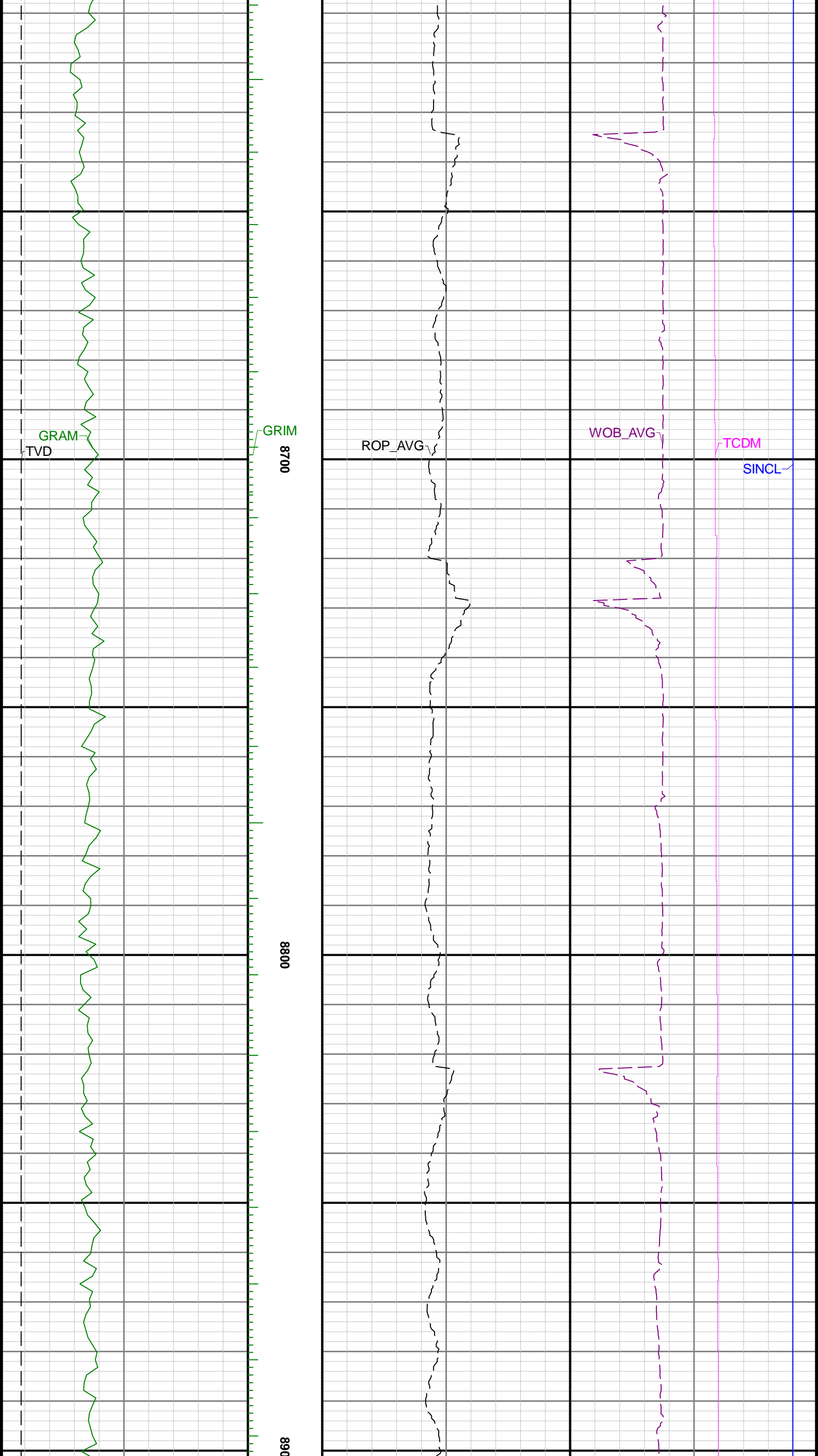


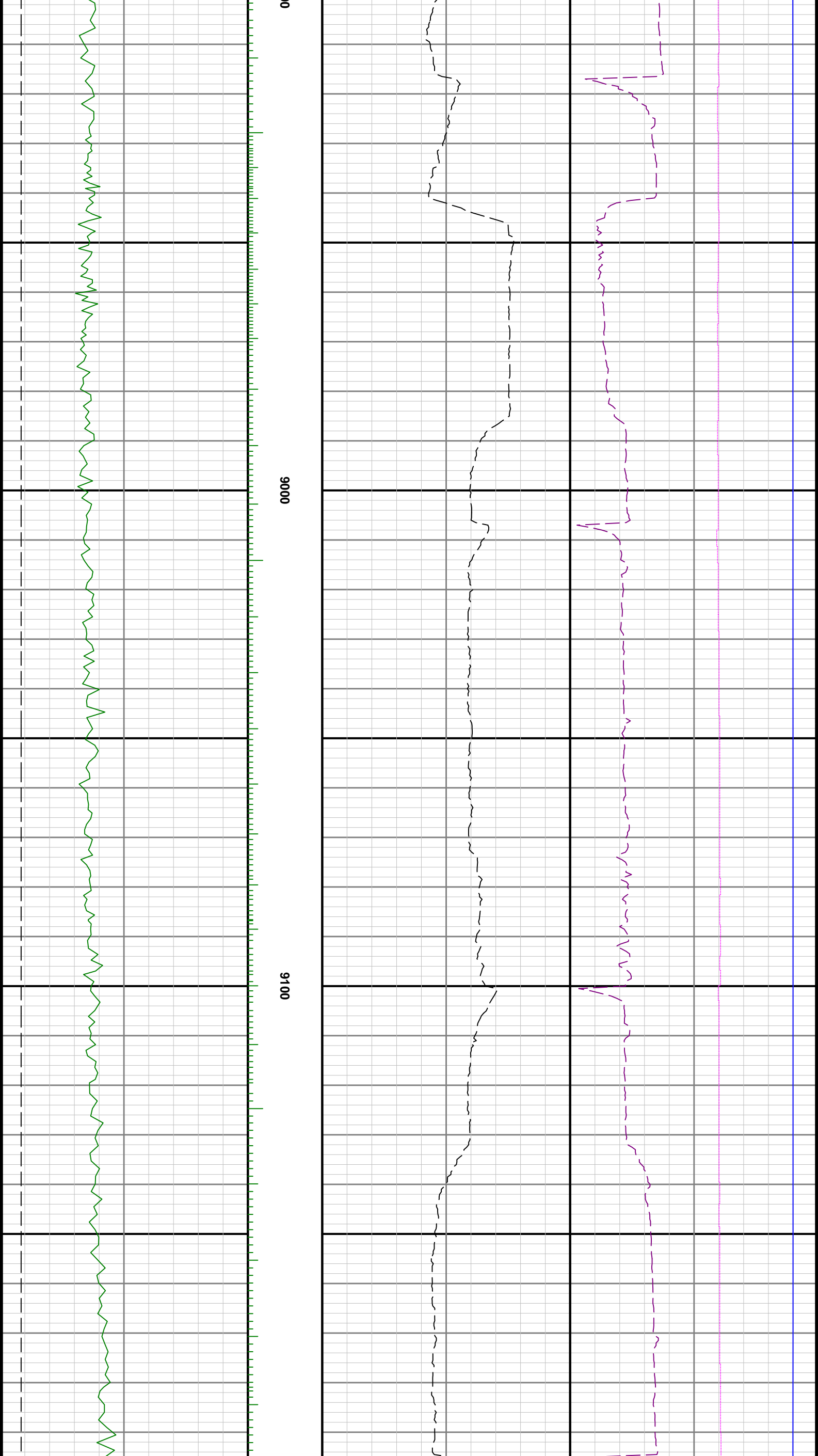
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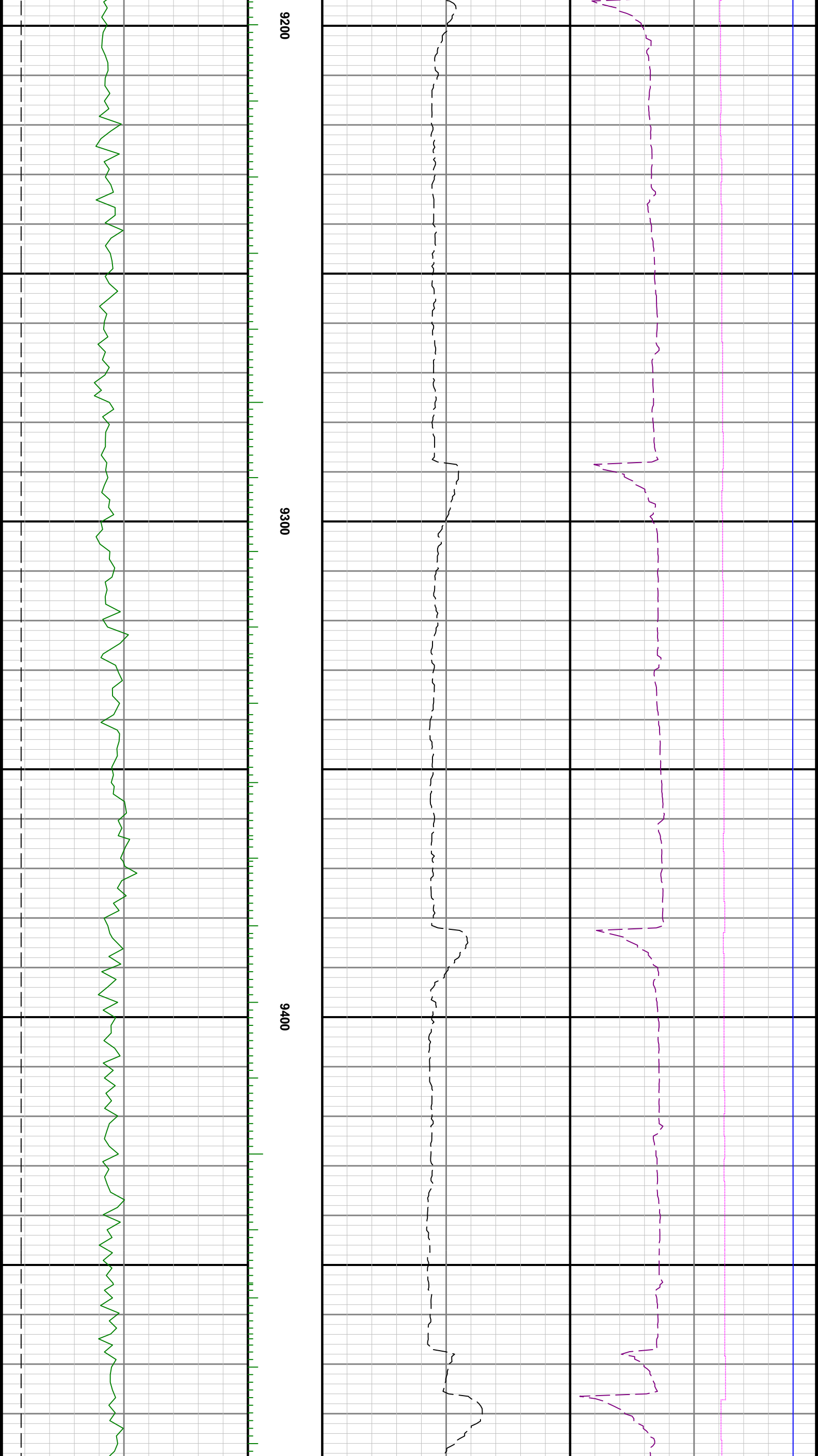
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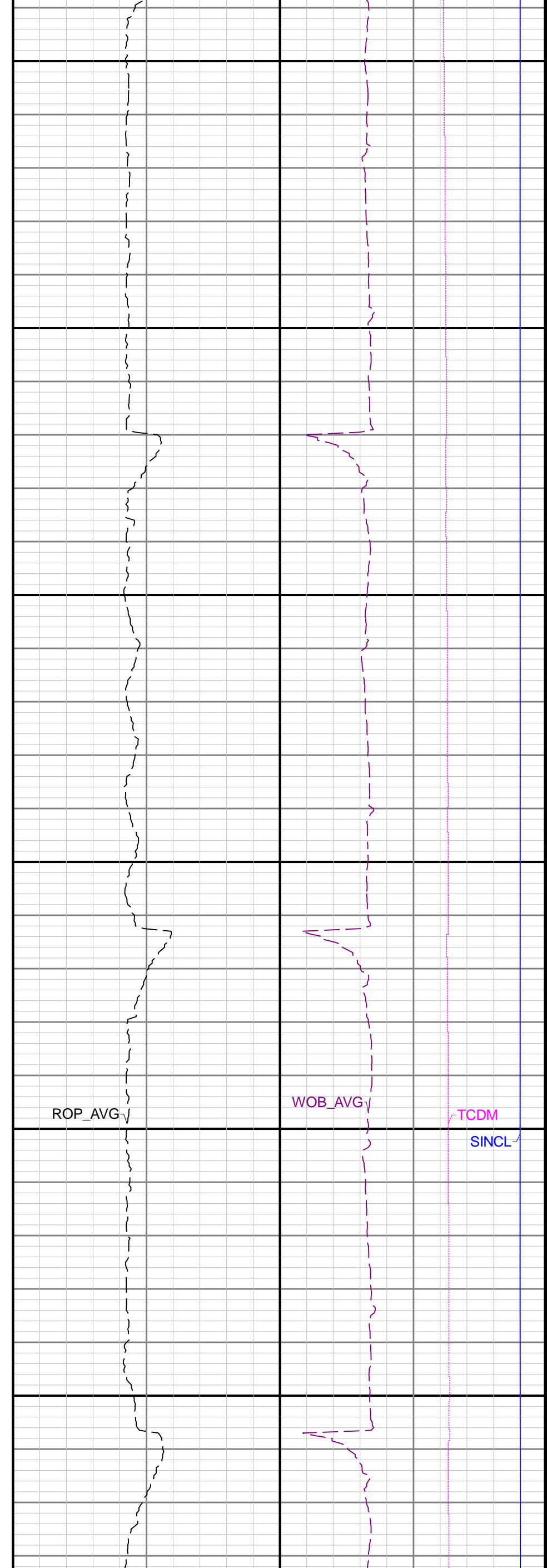
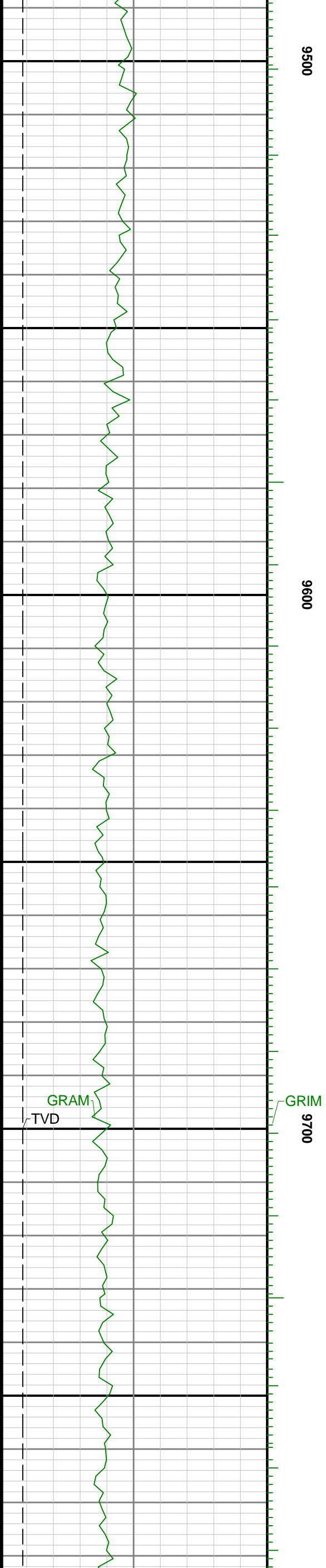
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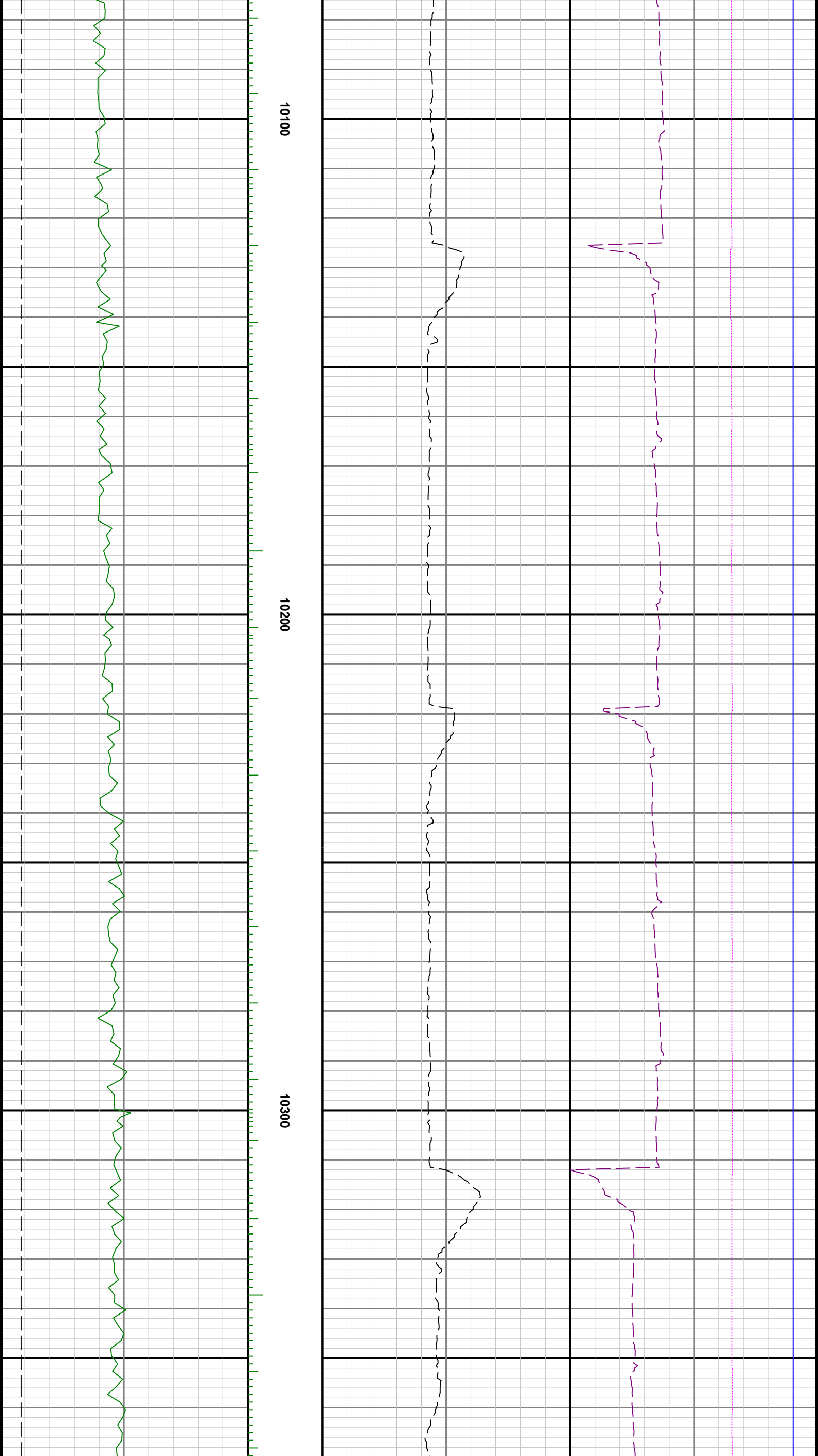


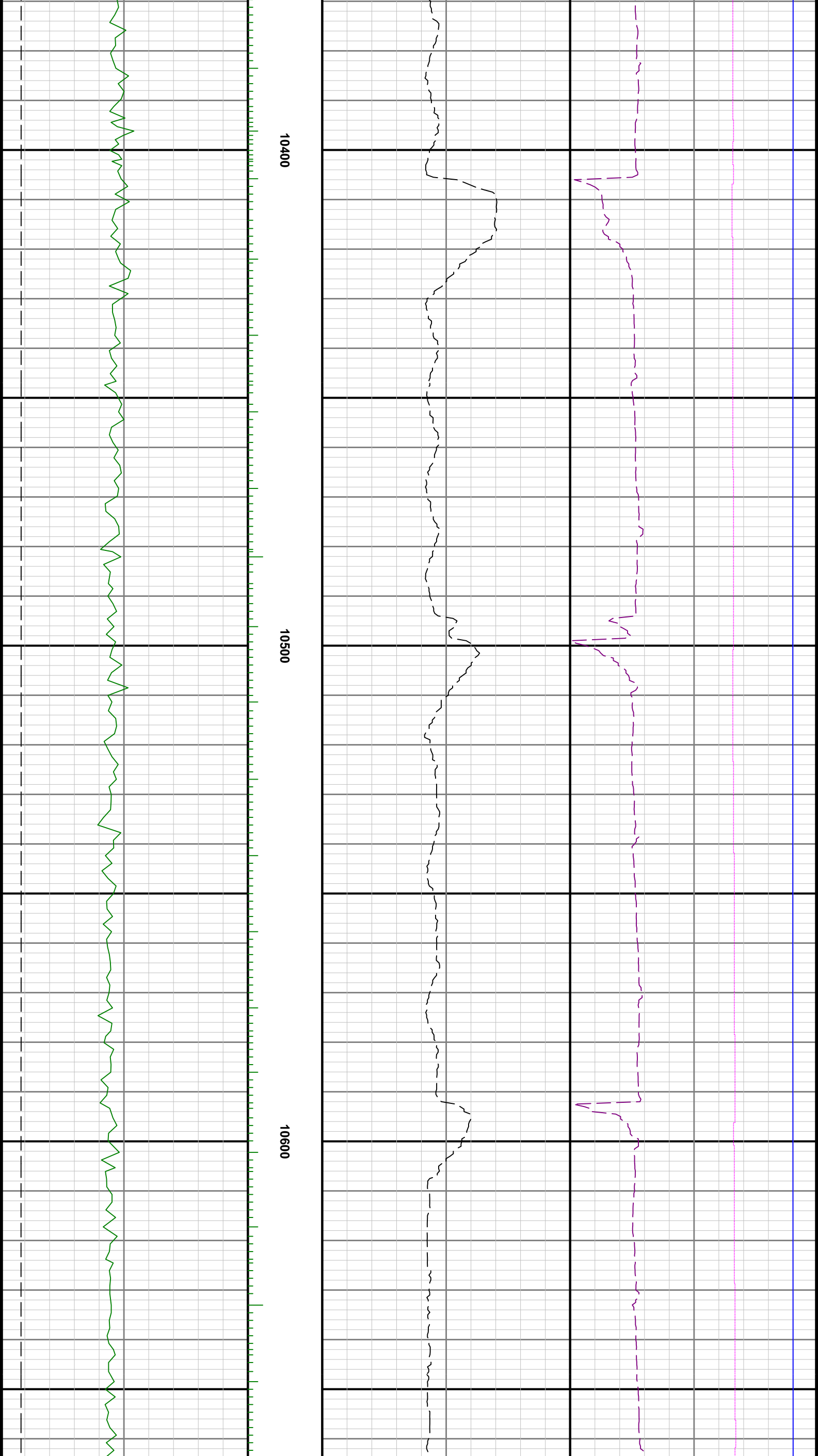


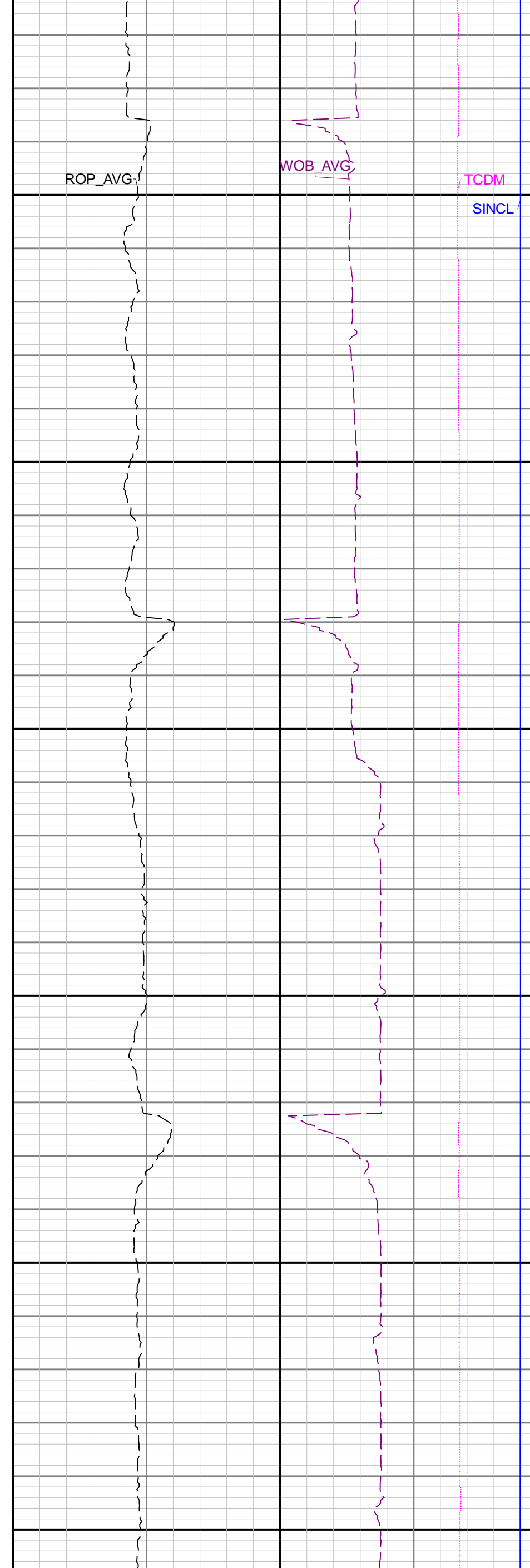
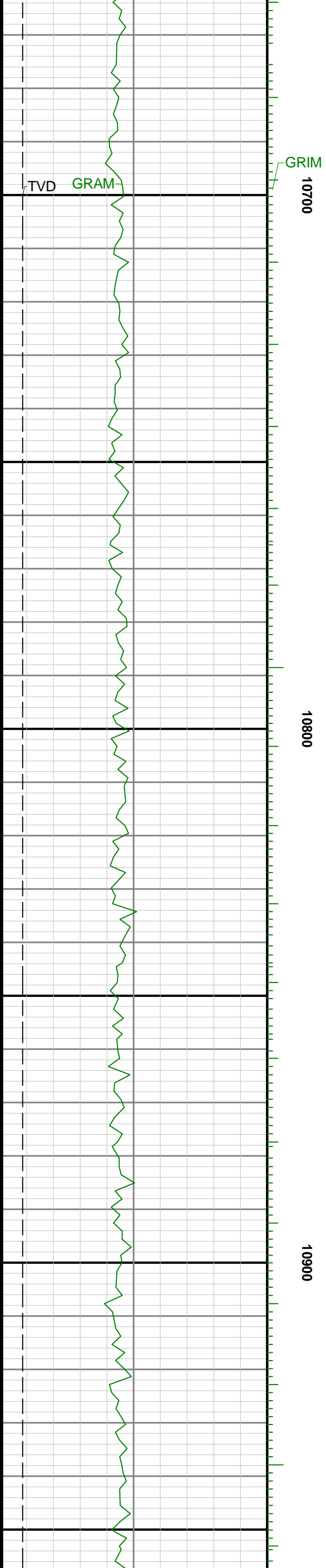


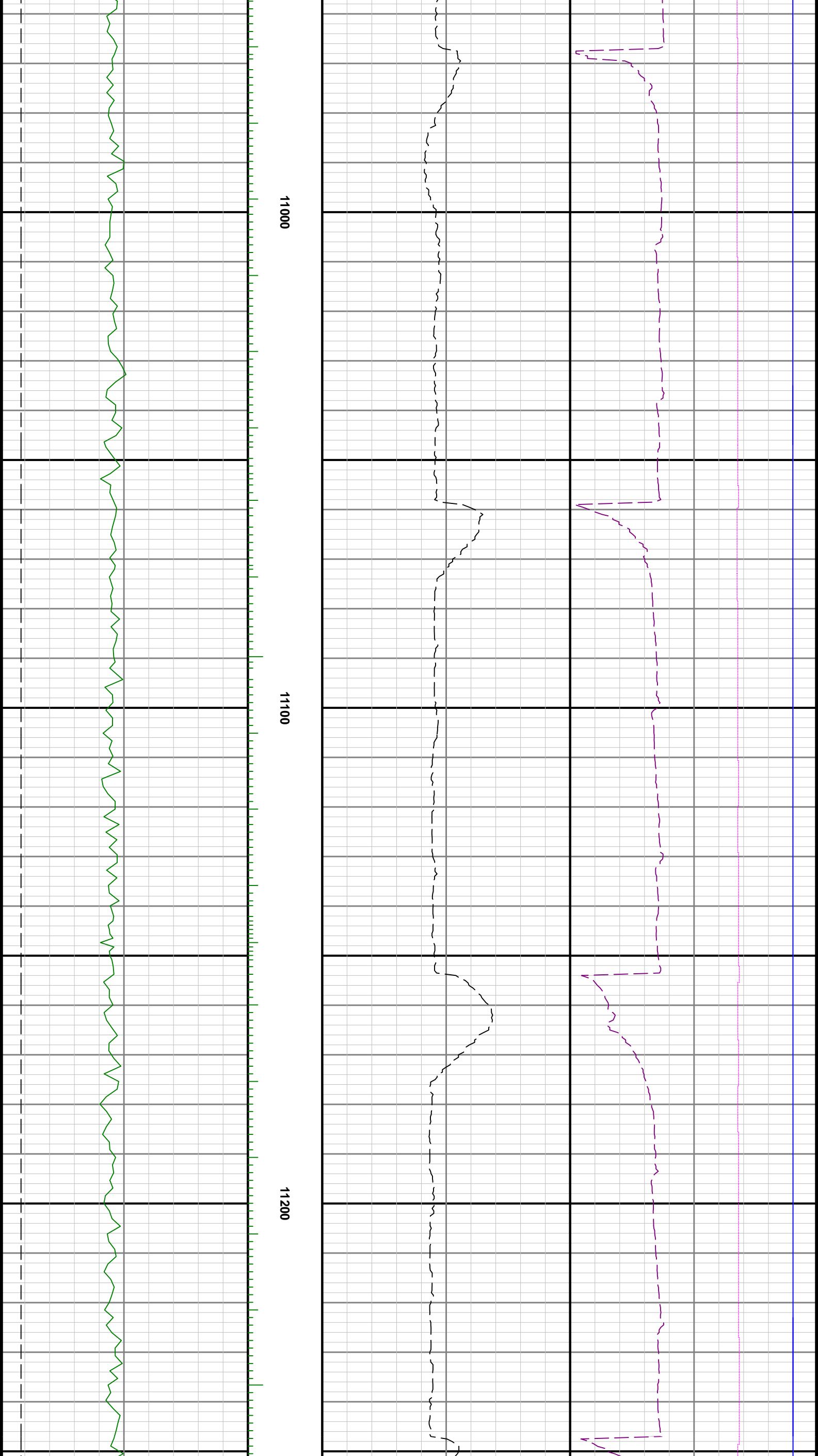


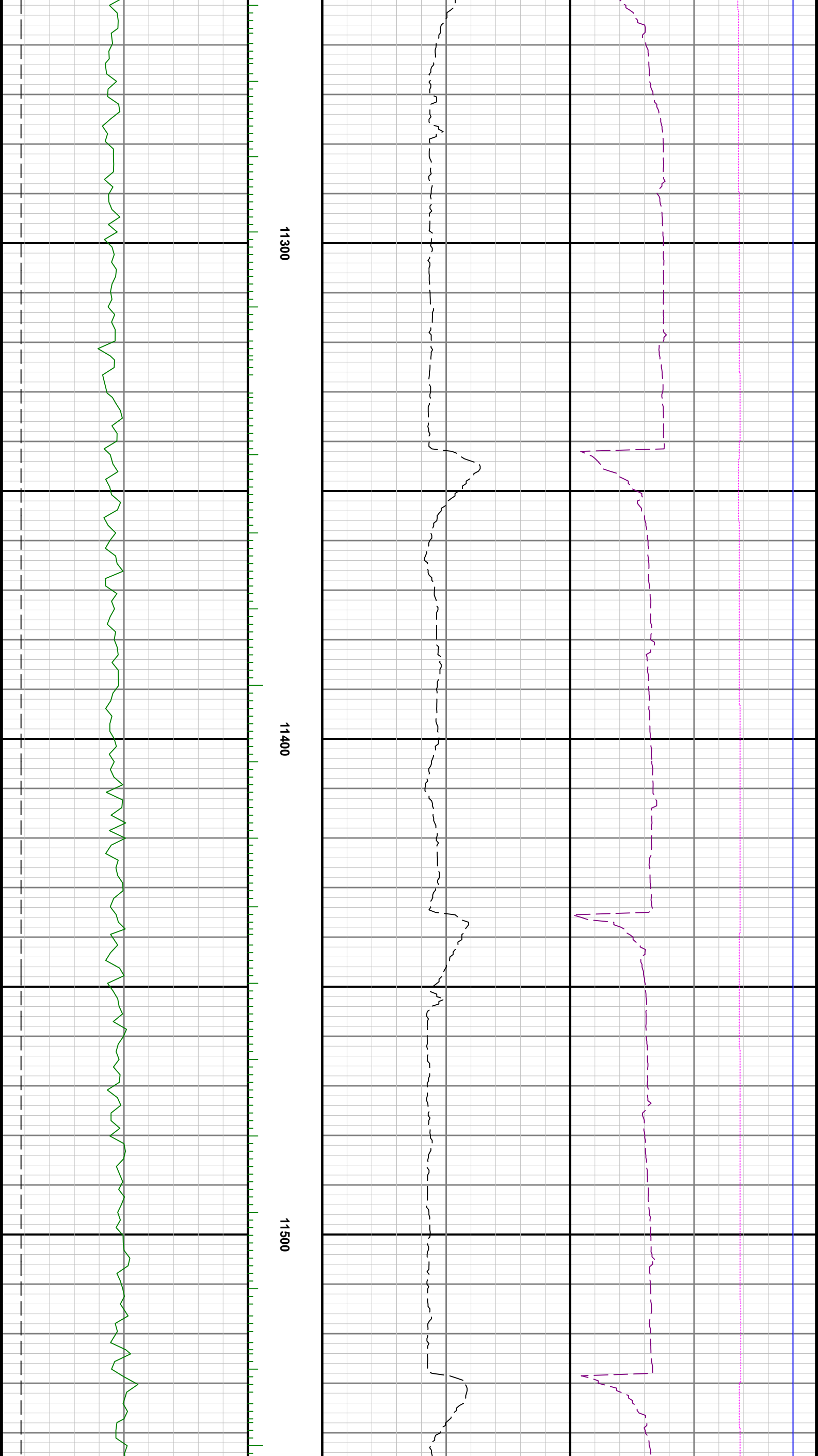


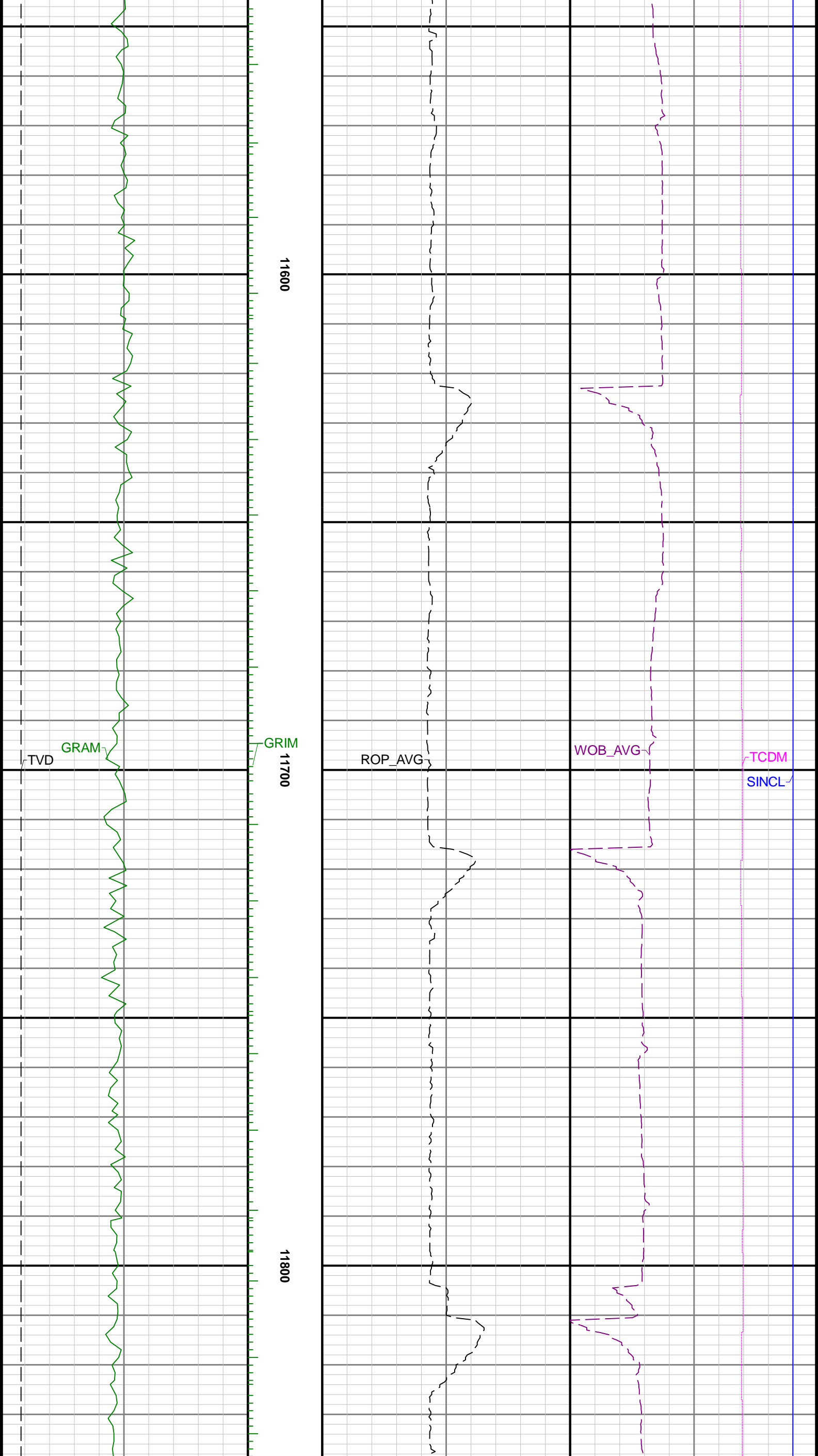


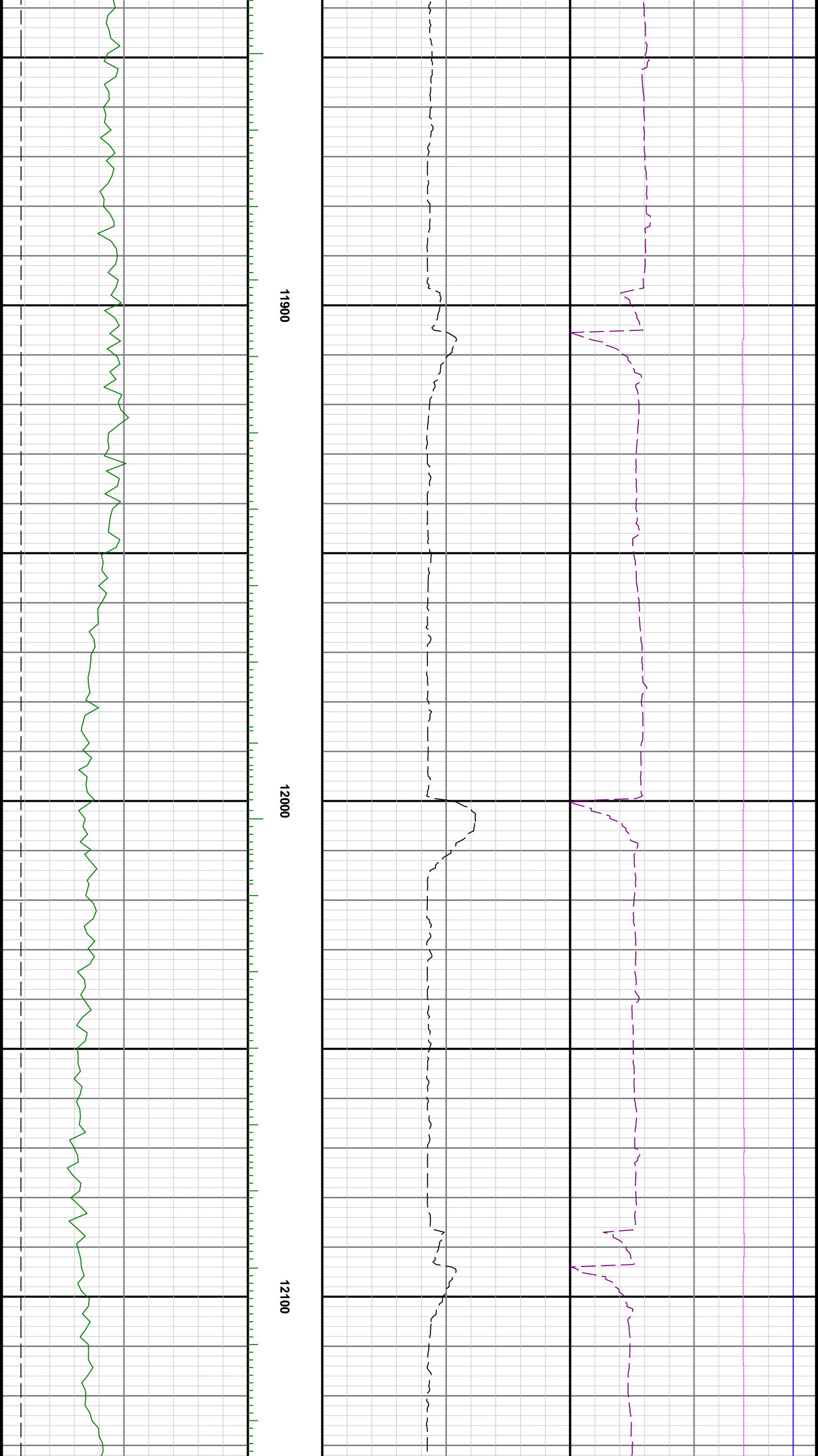


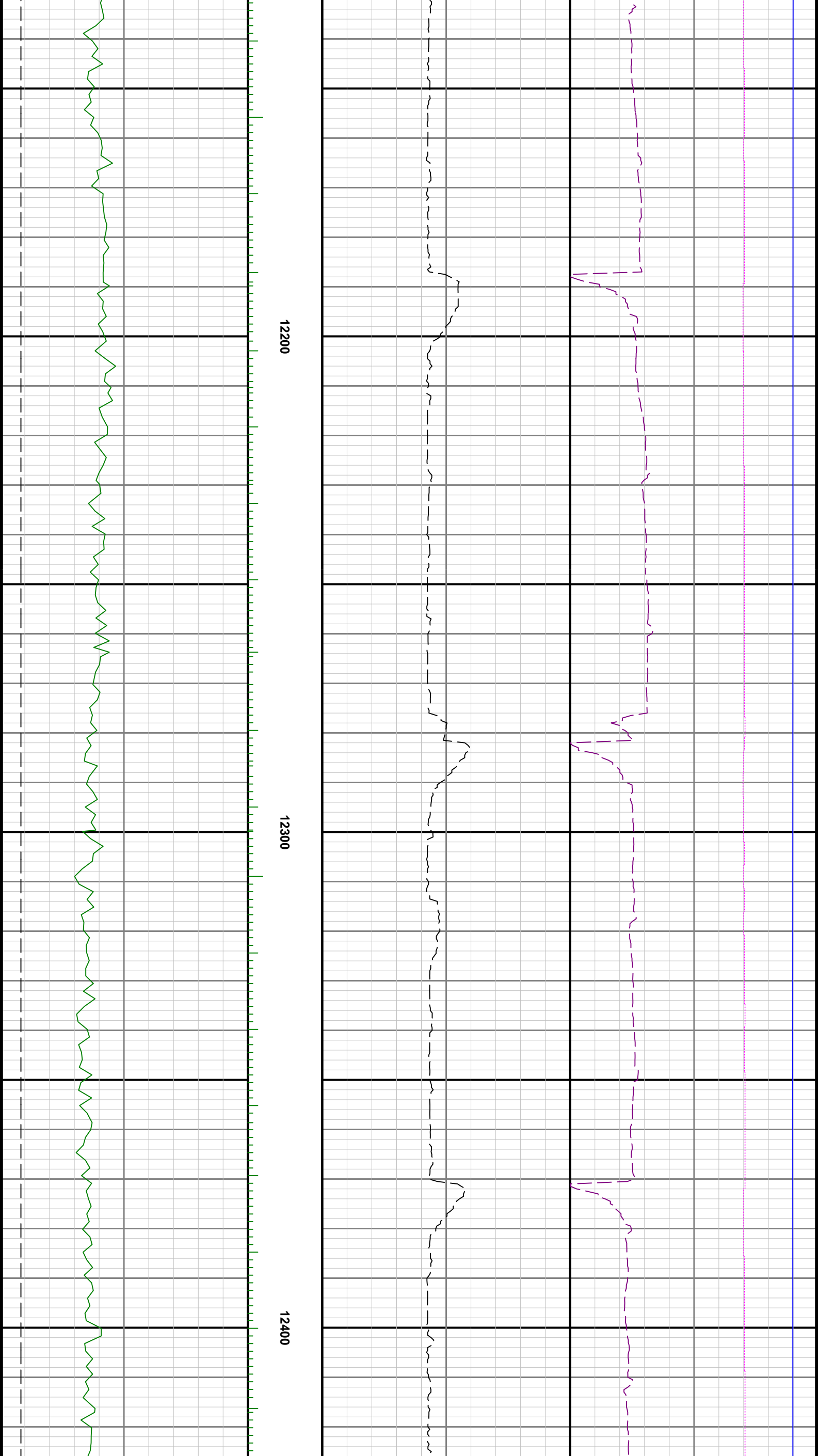


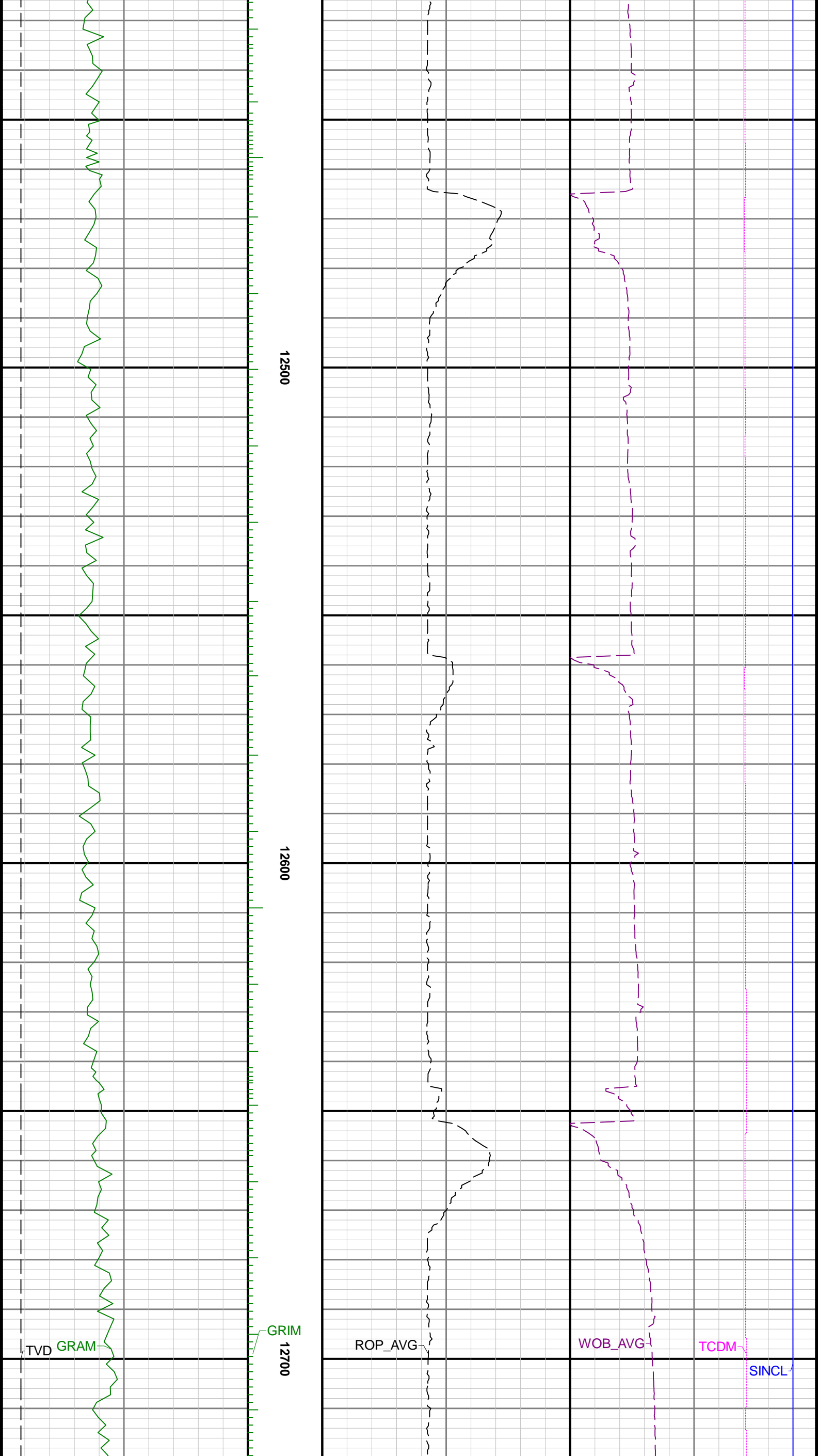


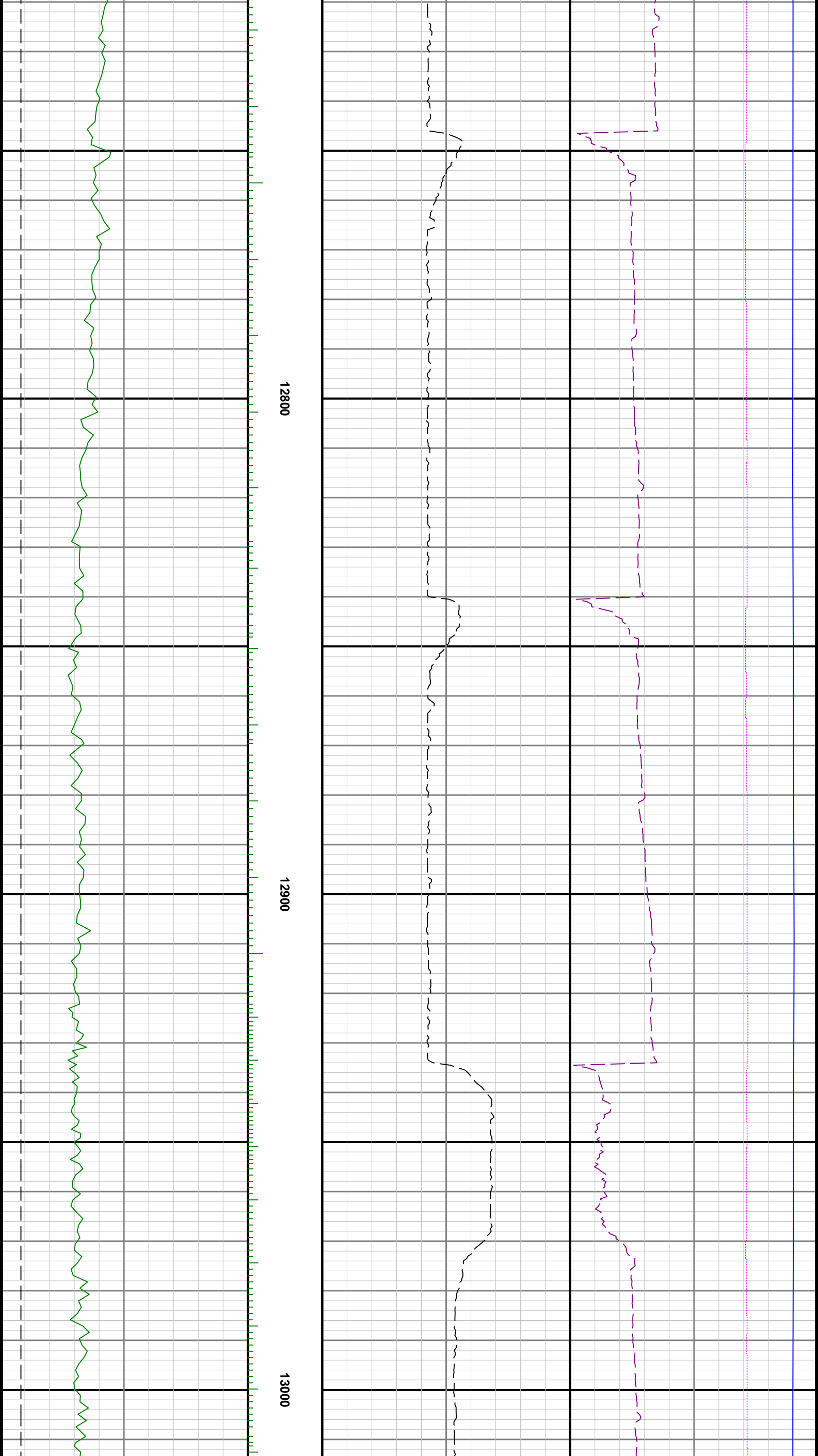


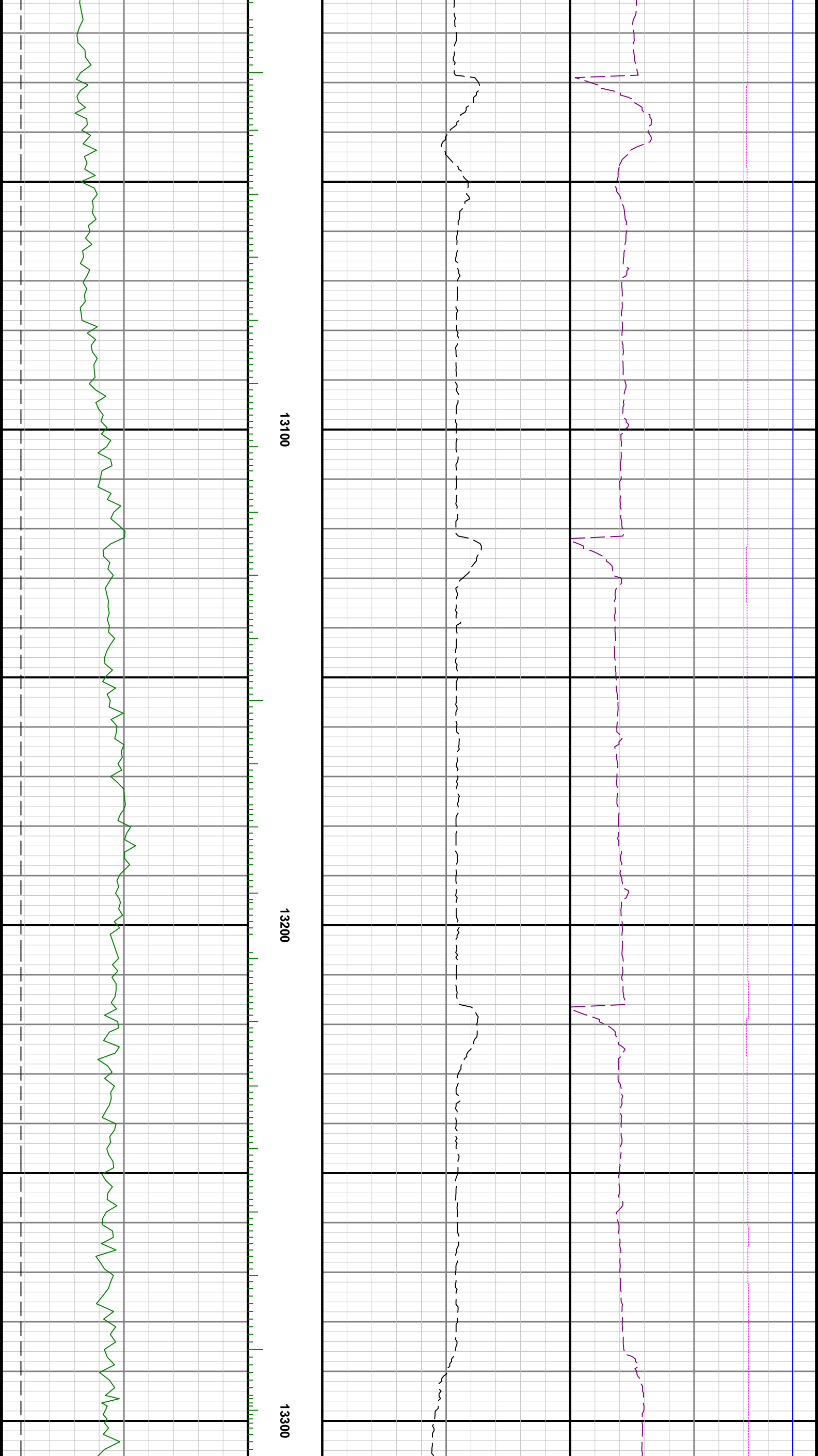


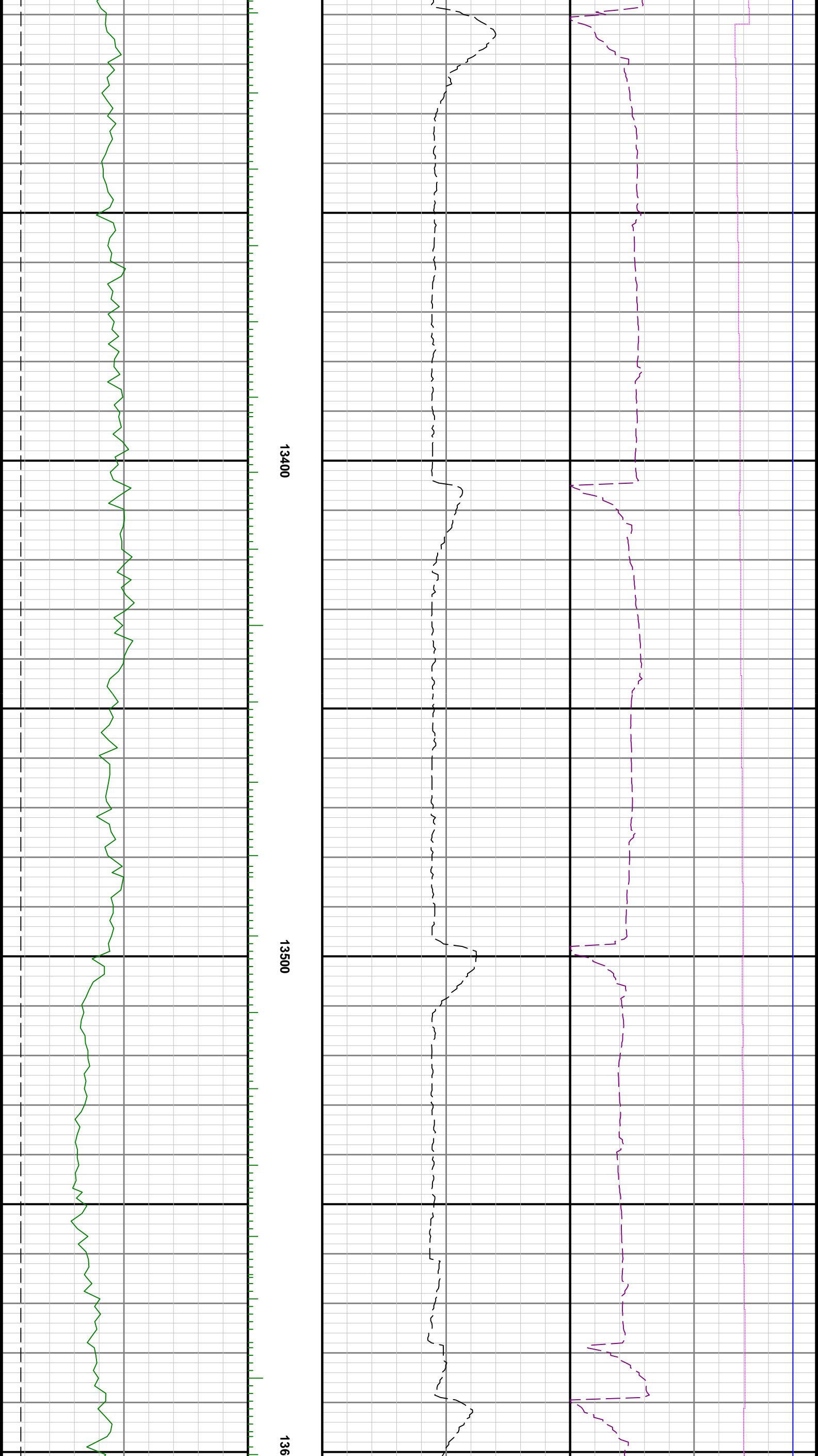


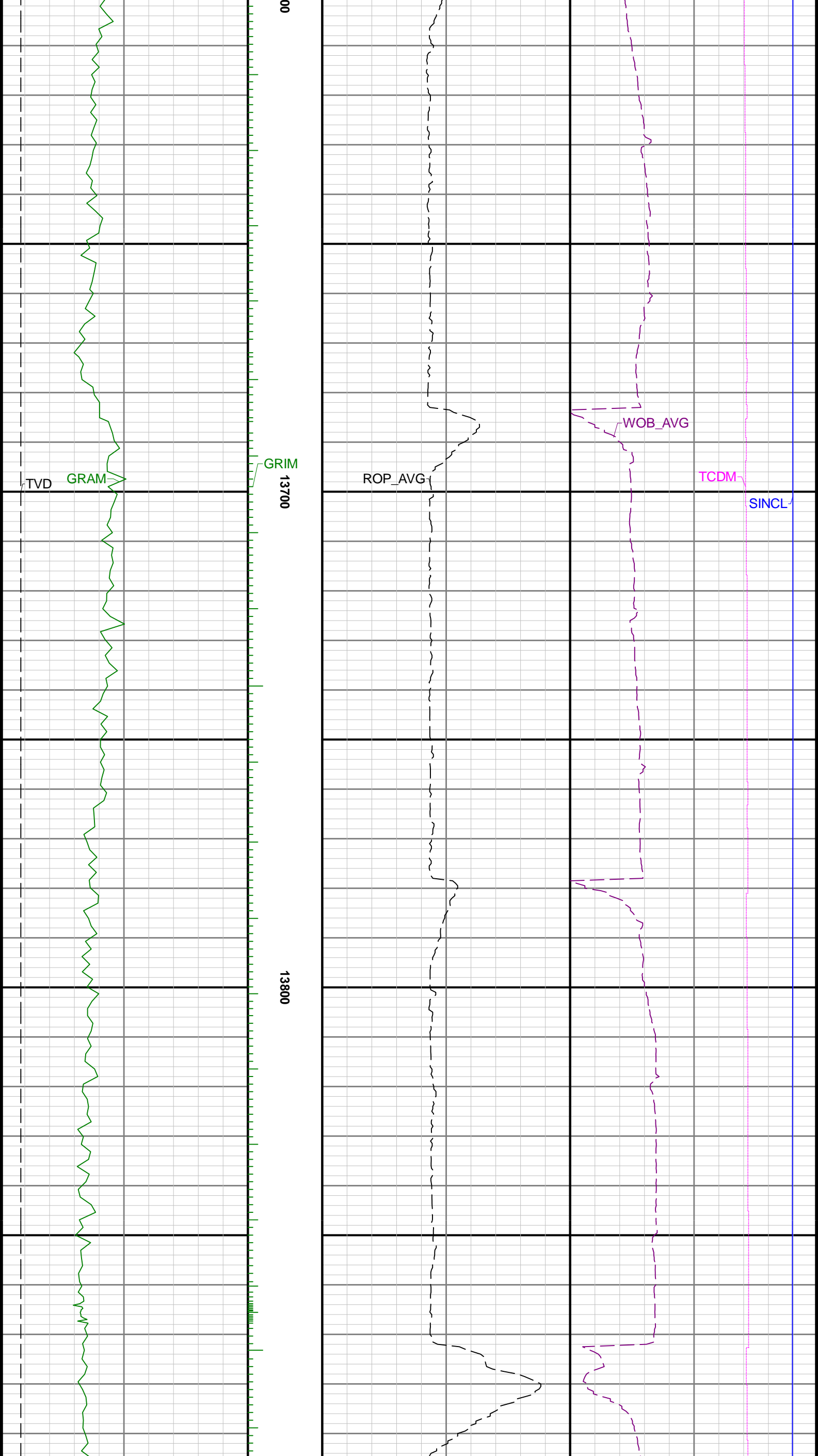


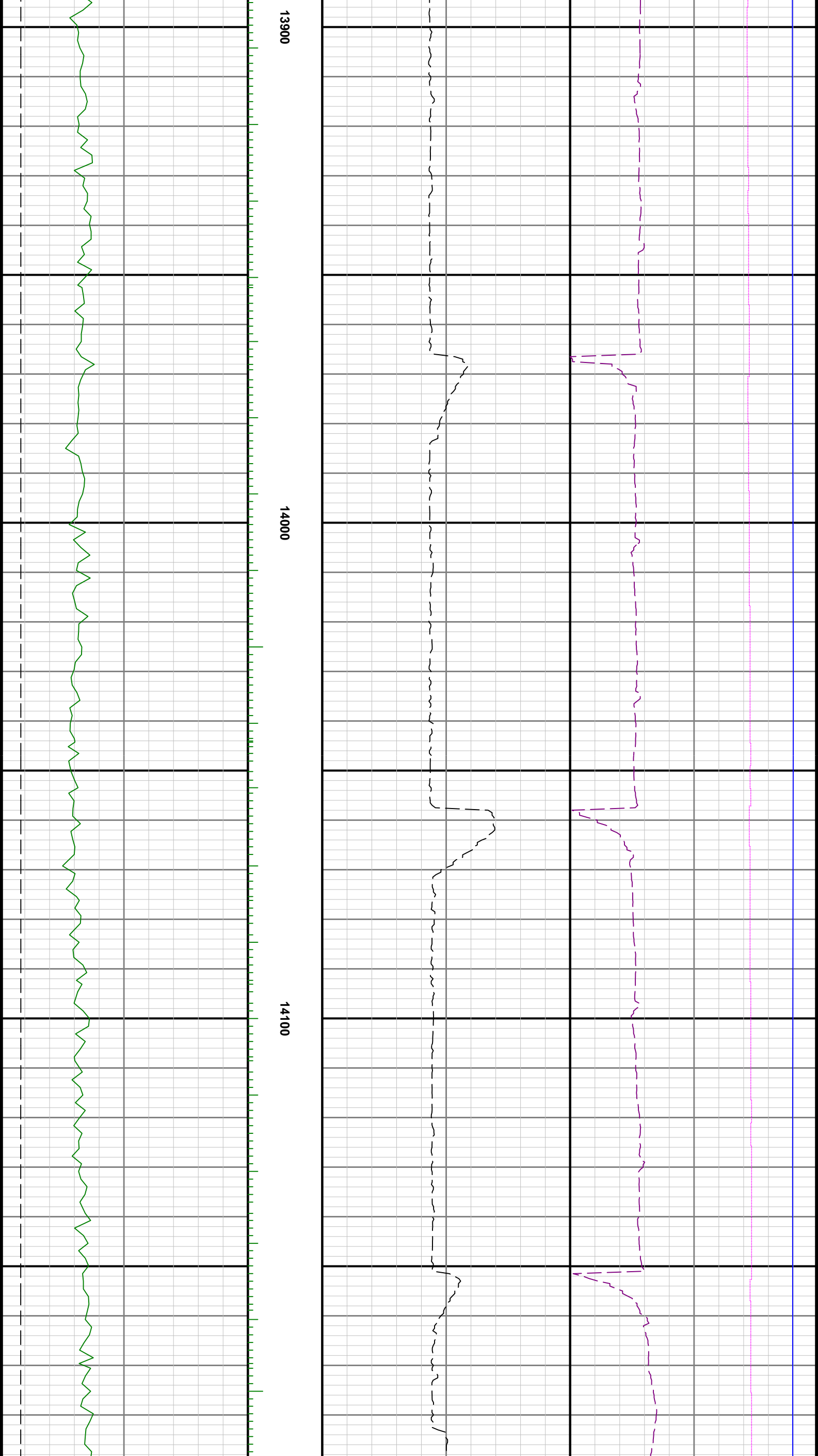


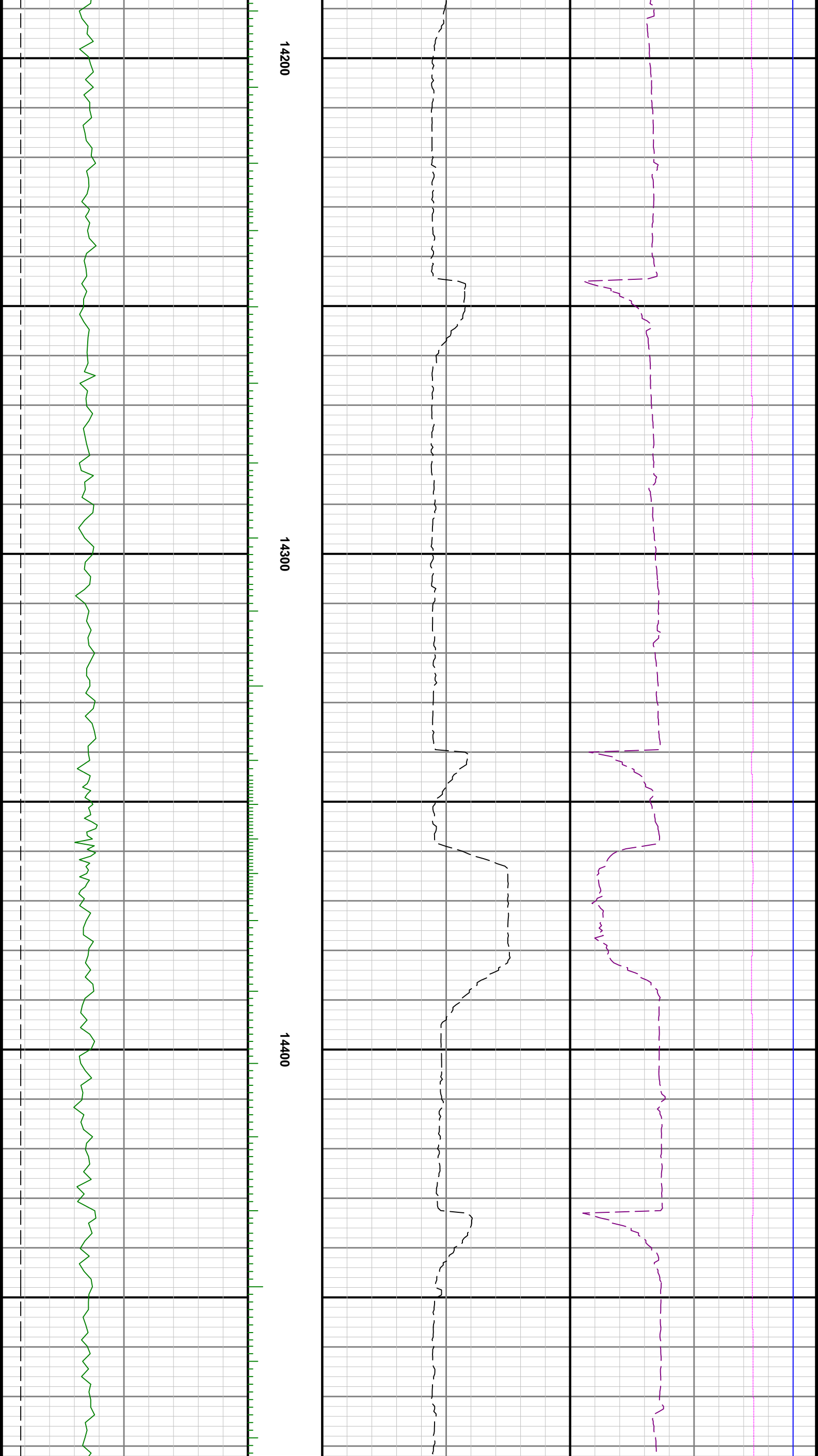


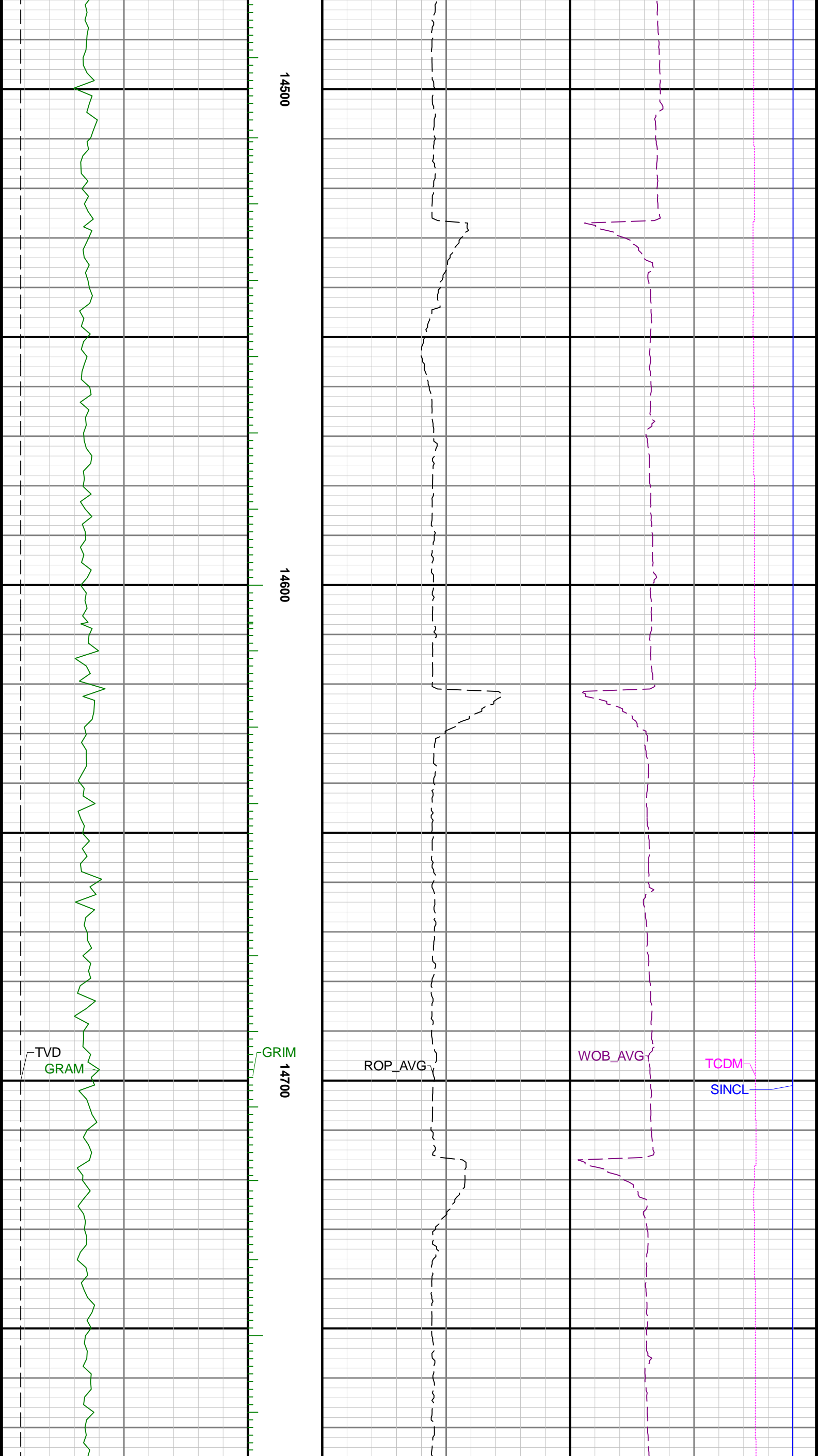


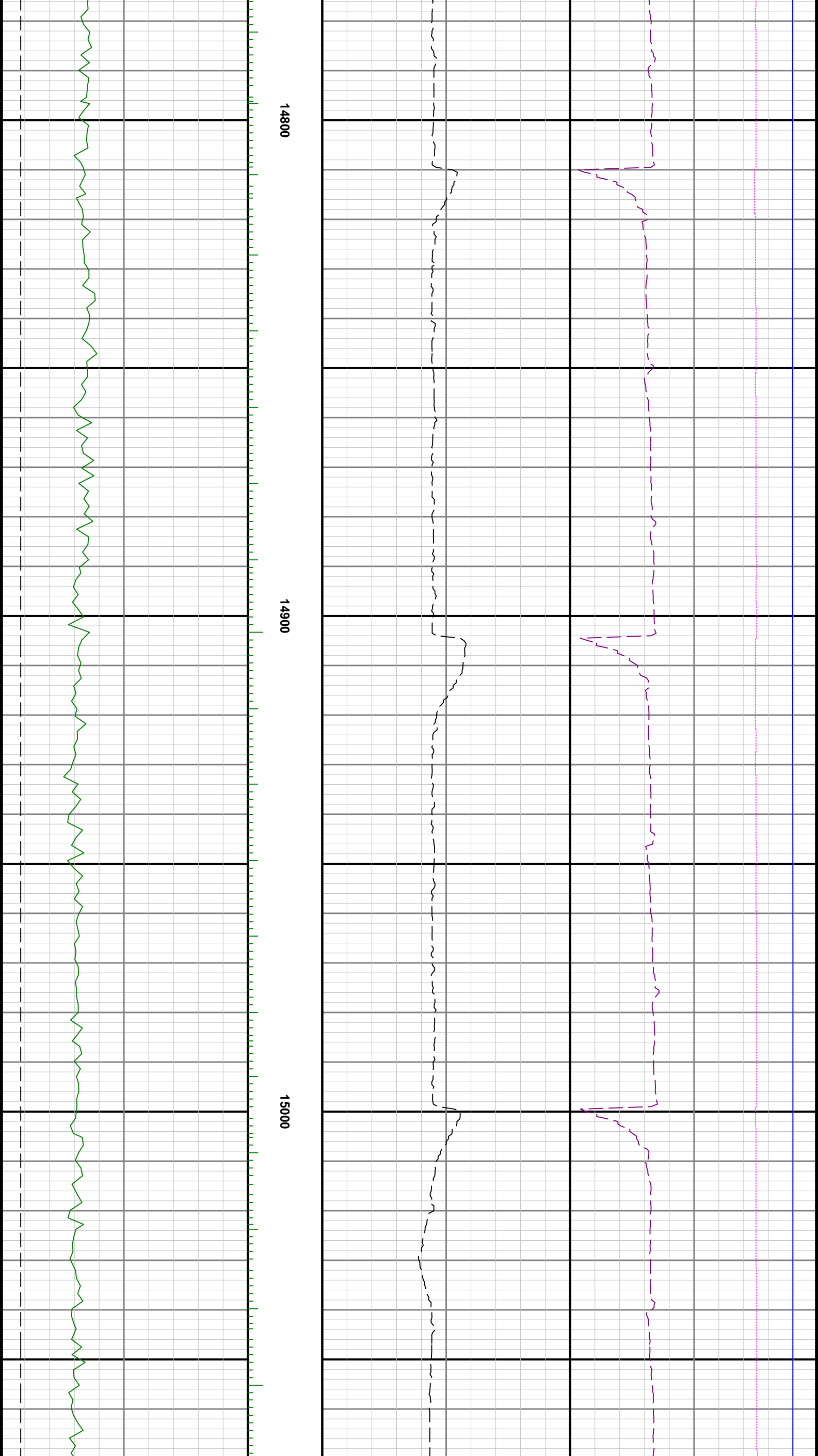




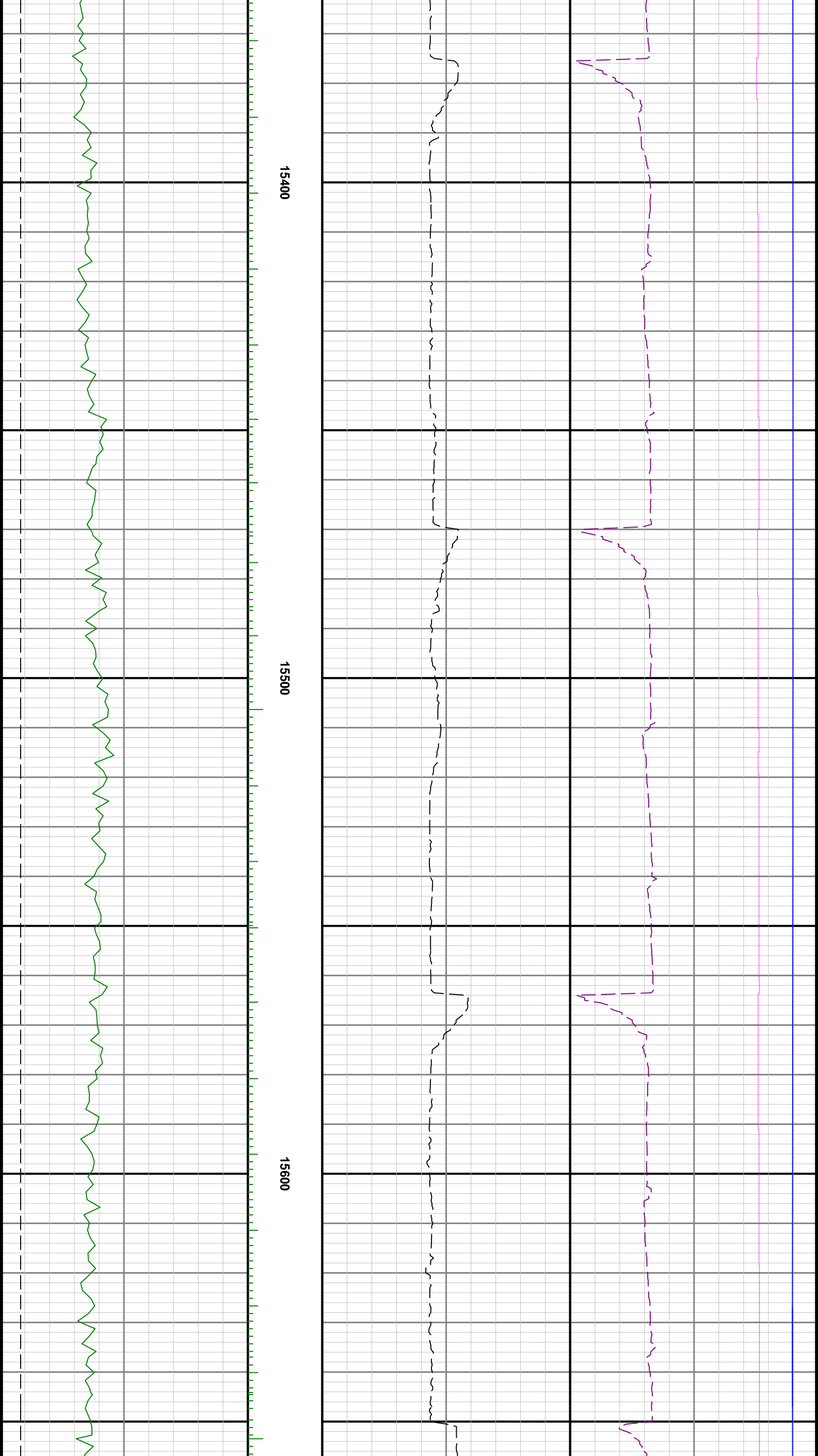




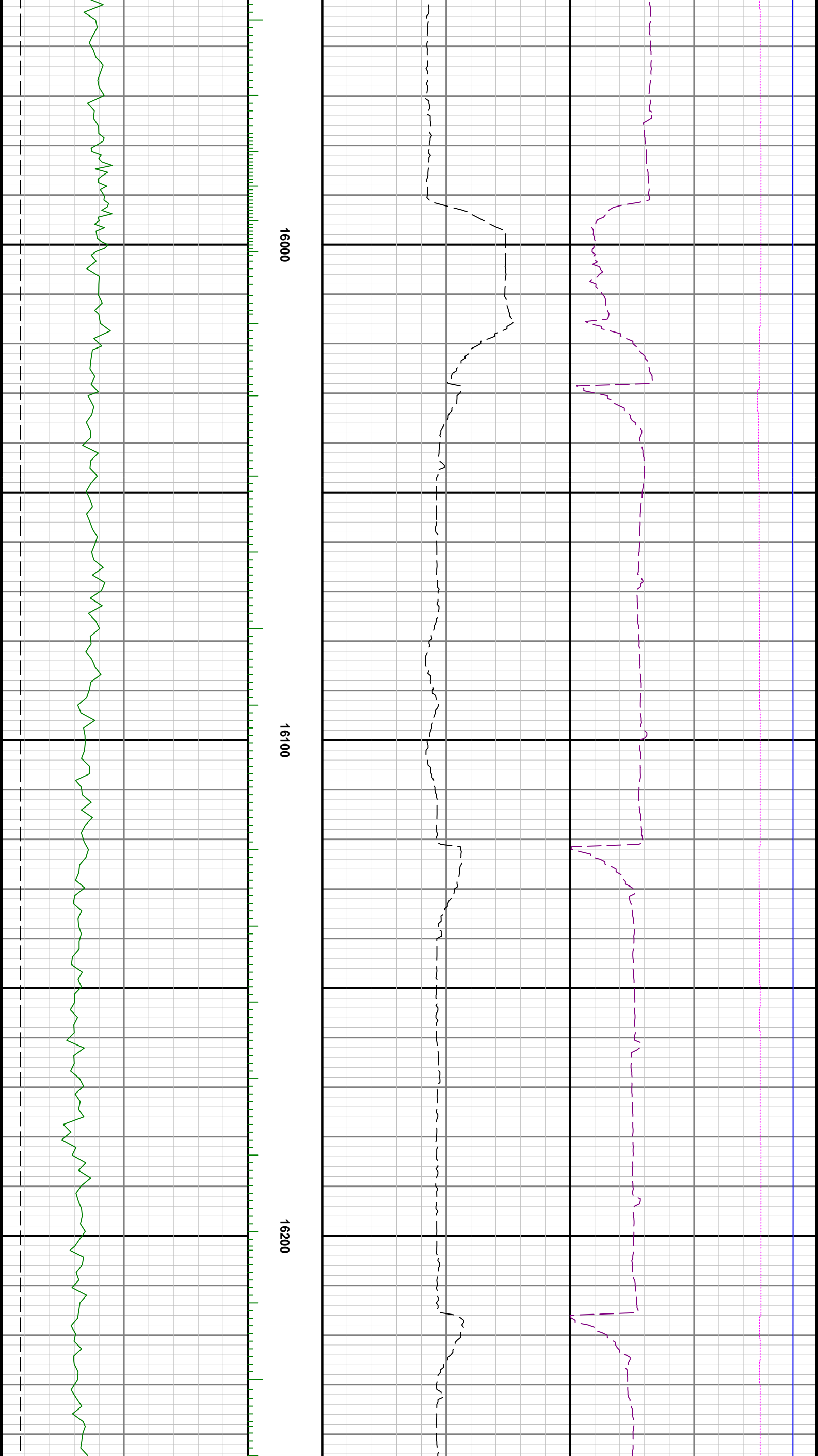


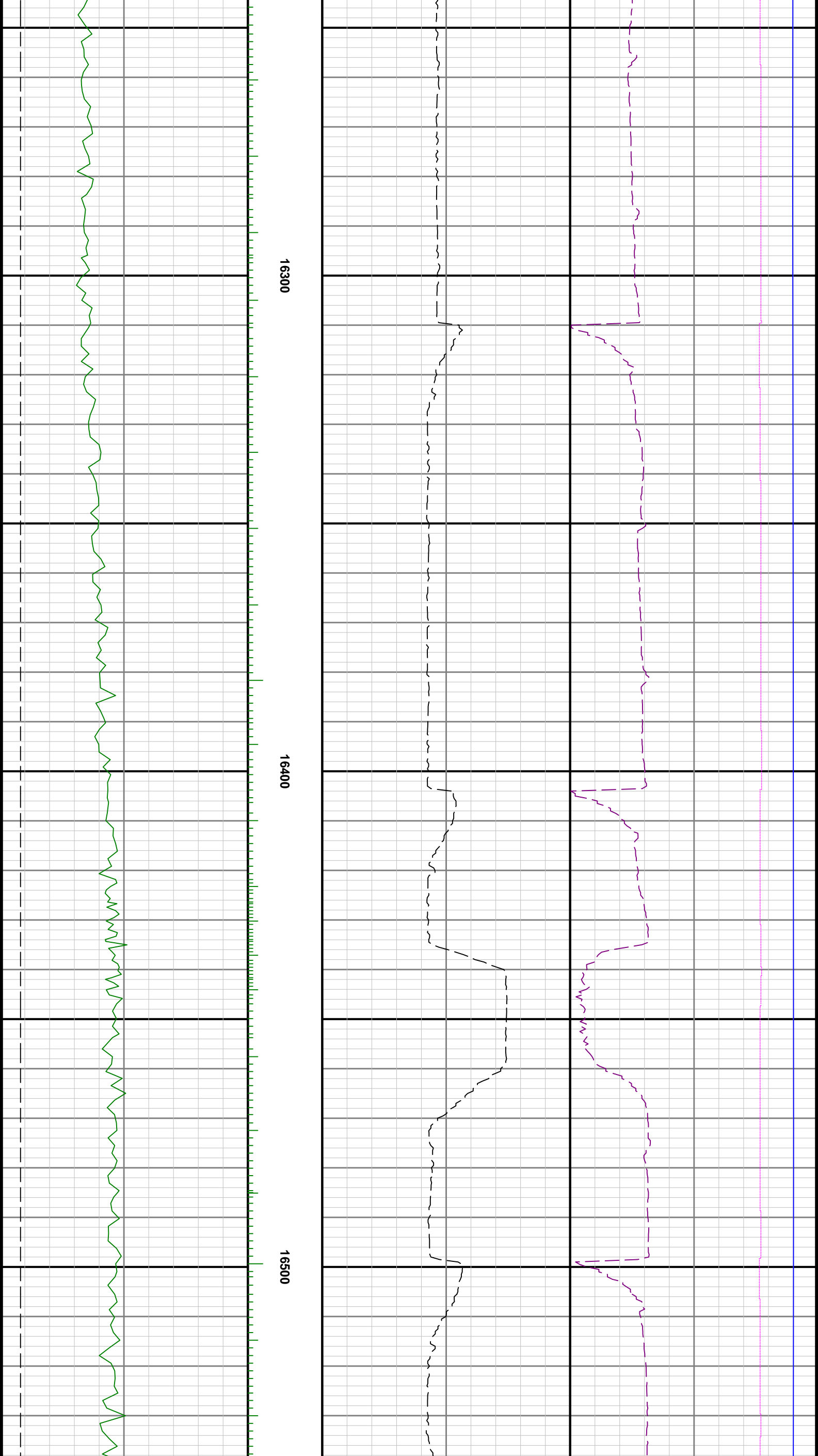


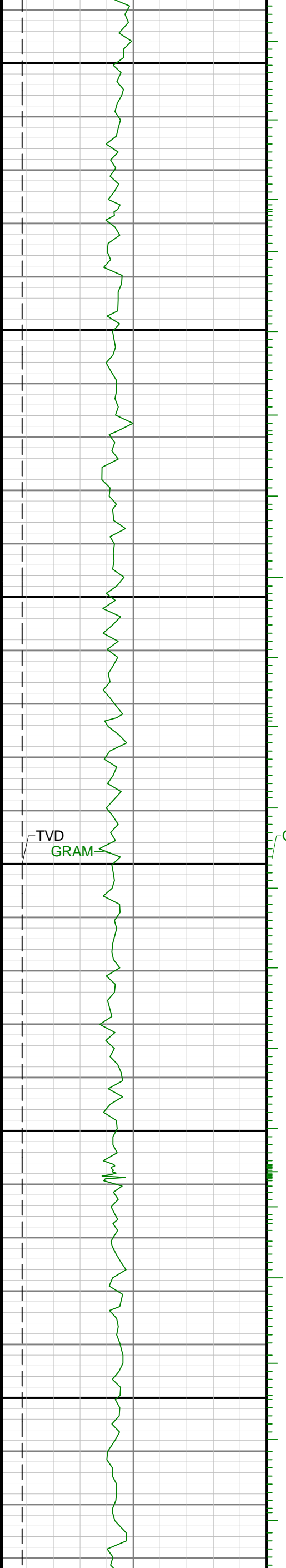








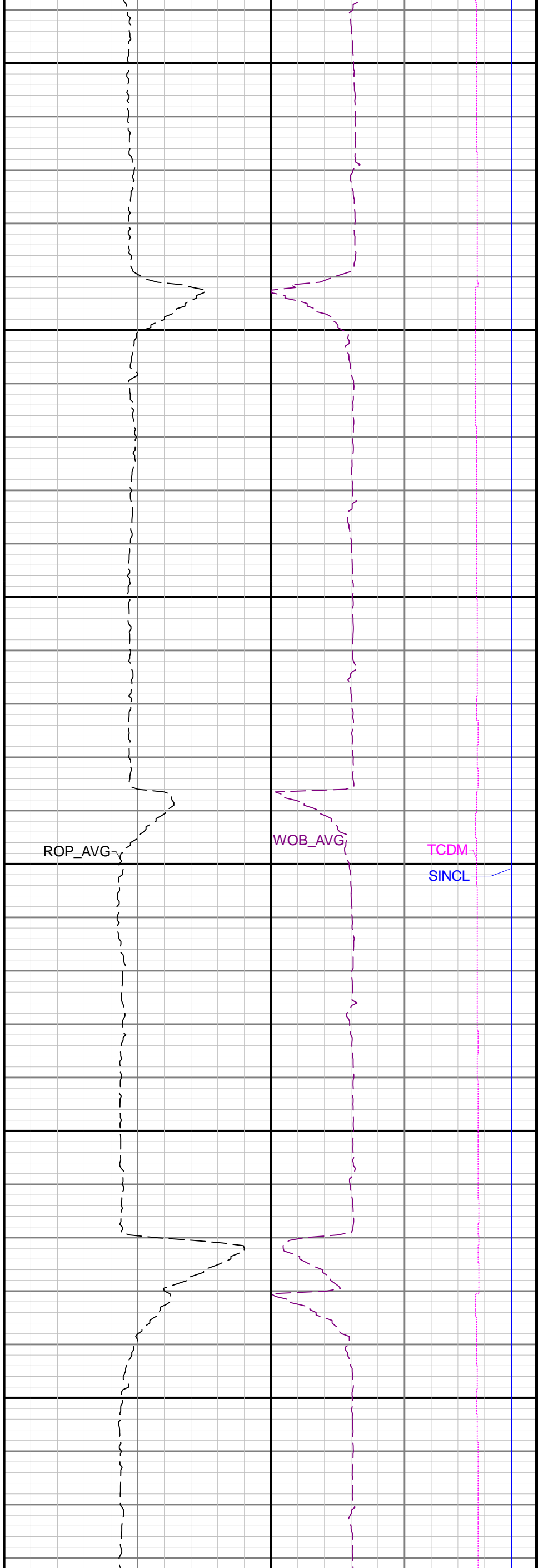




16600

16700

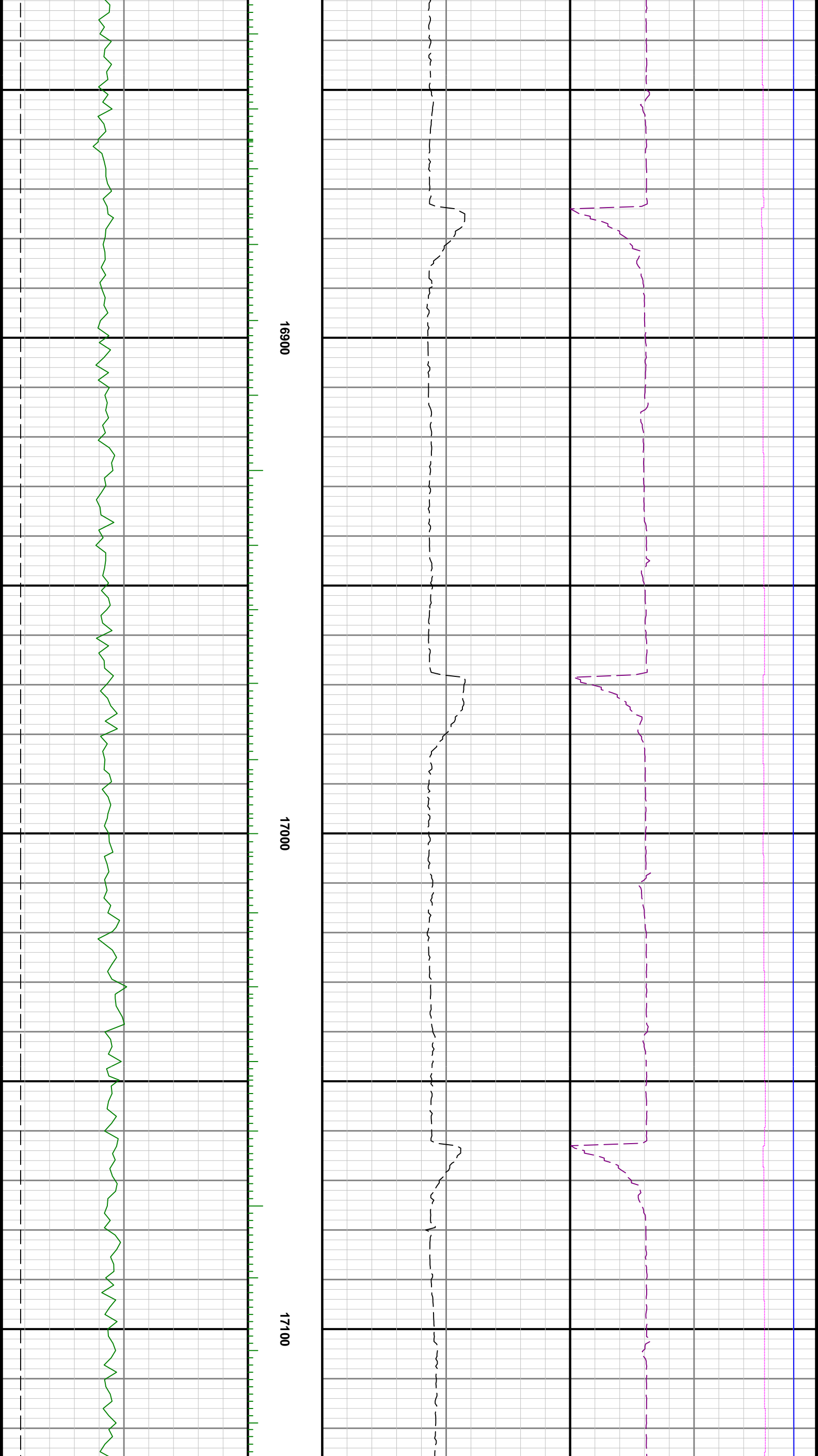
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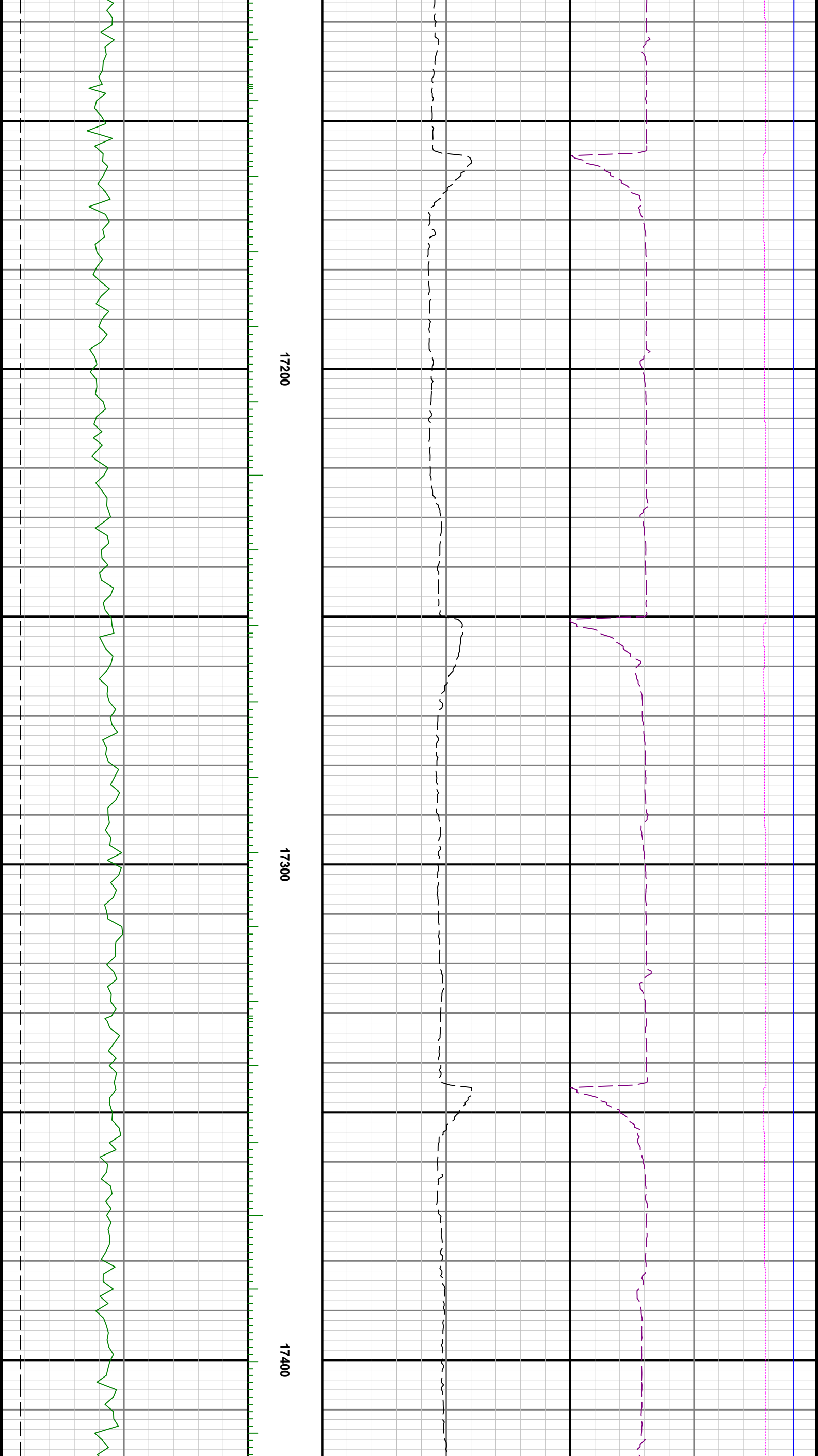


ROP_AVG

WOB_AVG

TCDM
SINCL

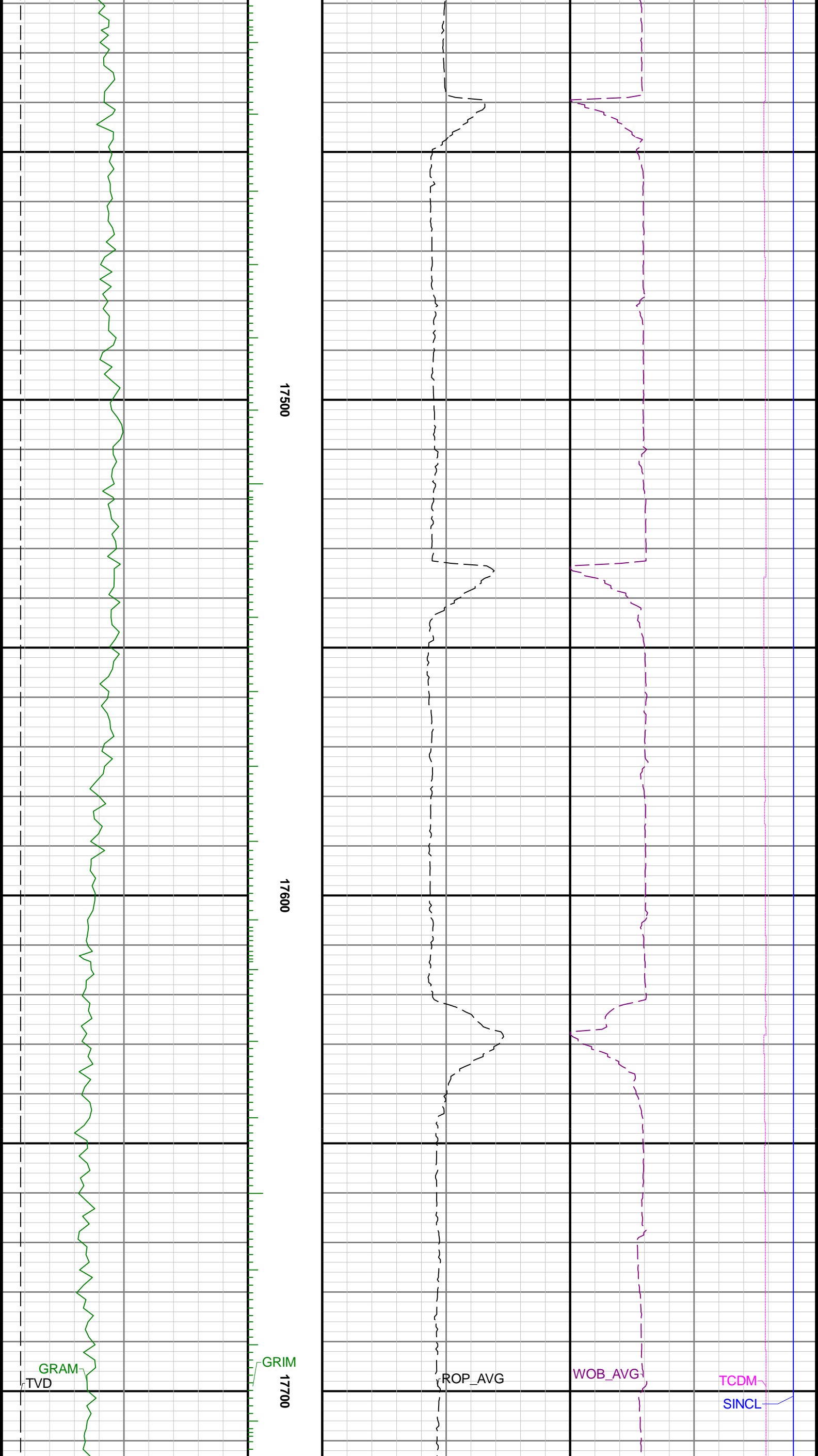




17200

17300

17400



17500

17600

17700

GRAM
TVD

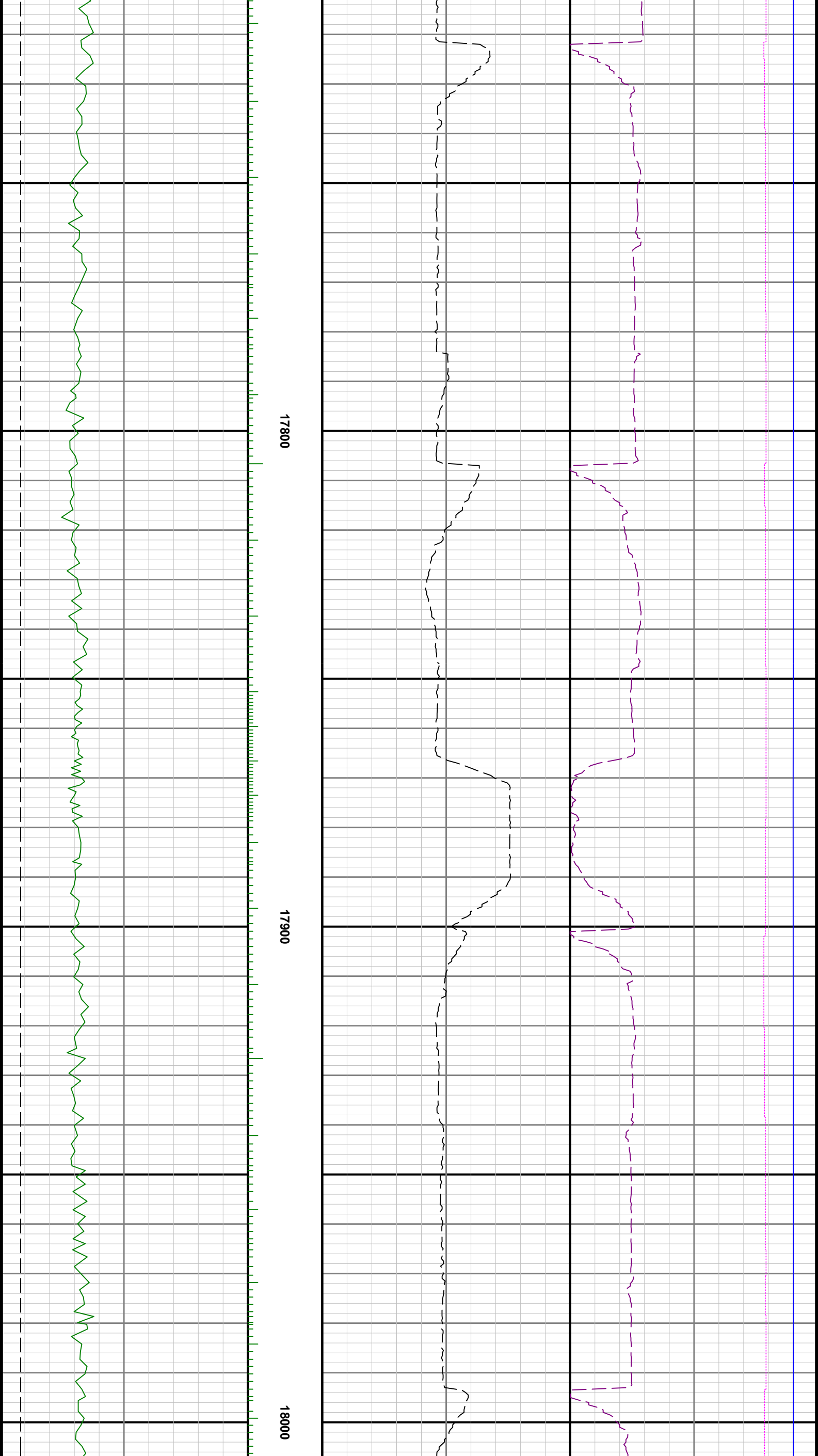
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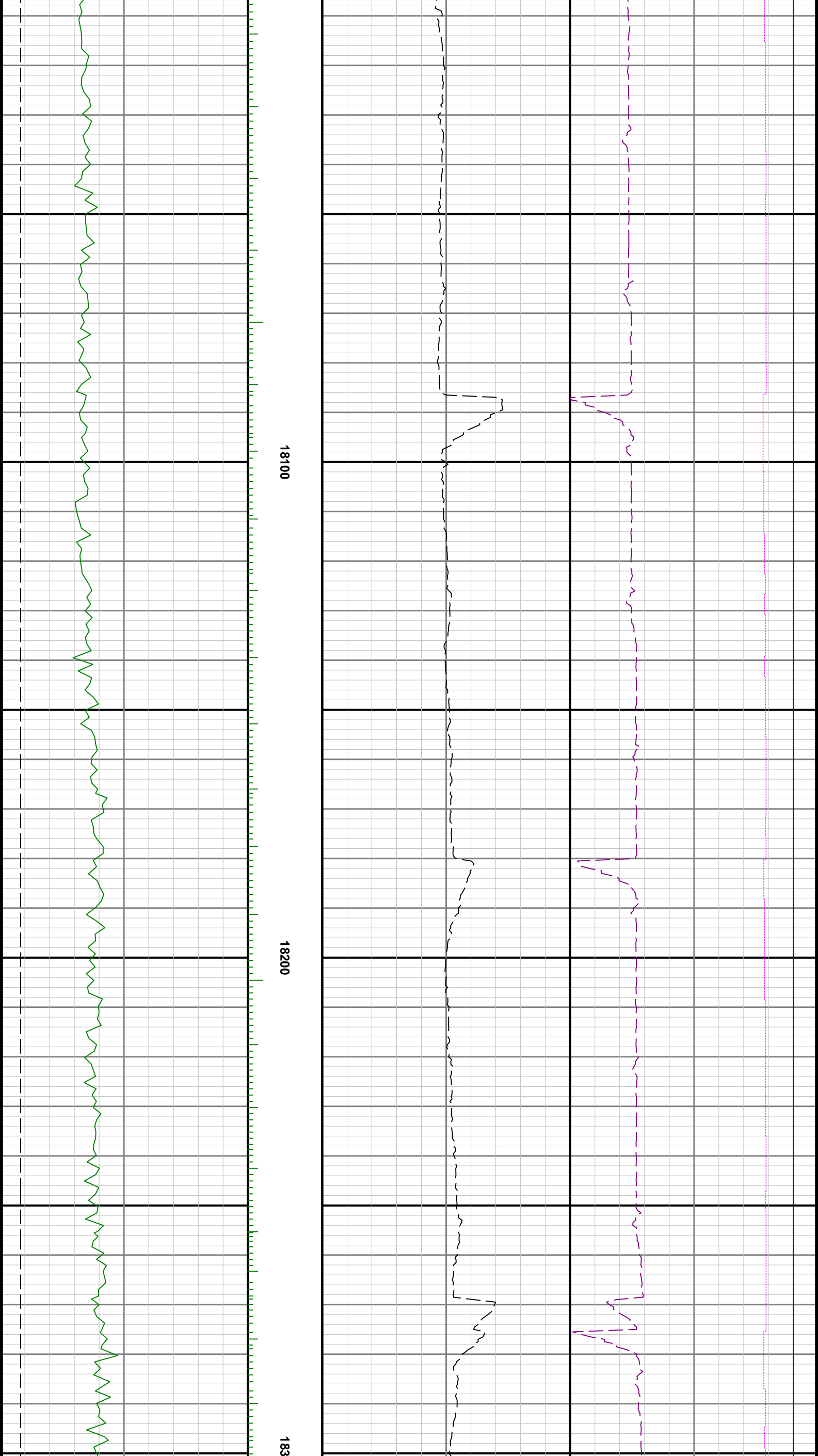
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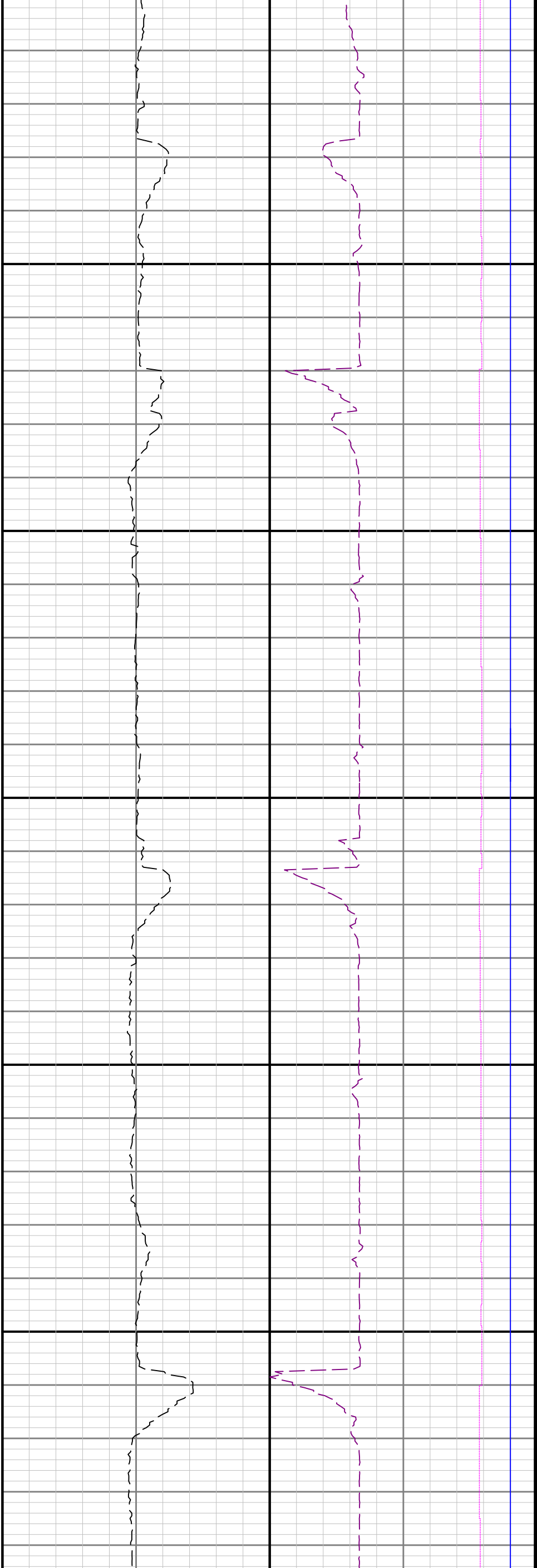
WOB_AVG

TCDM

SINCL



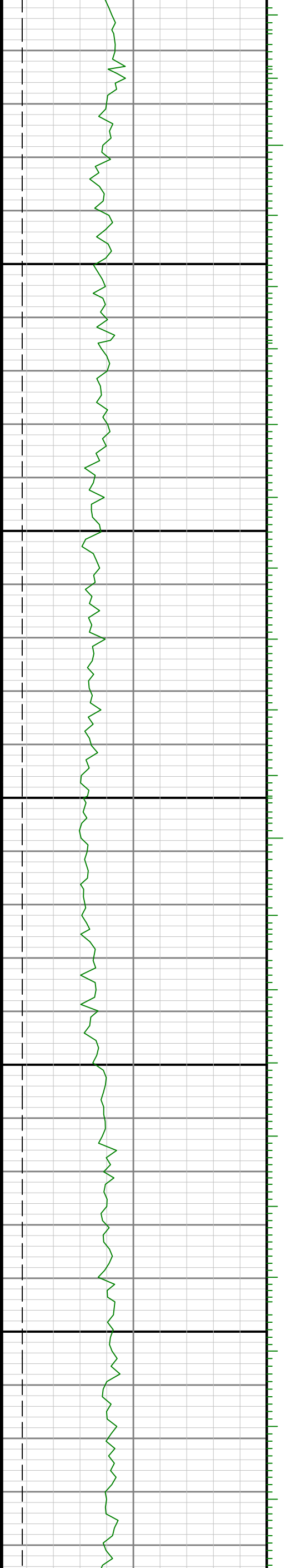


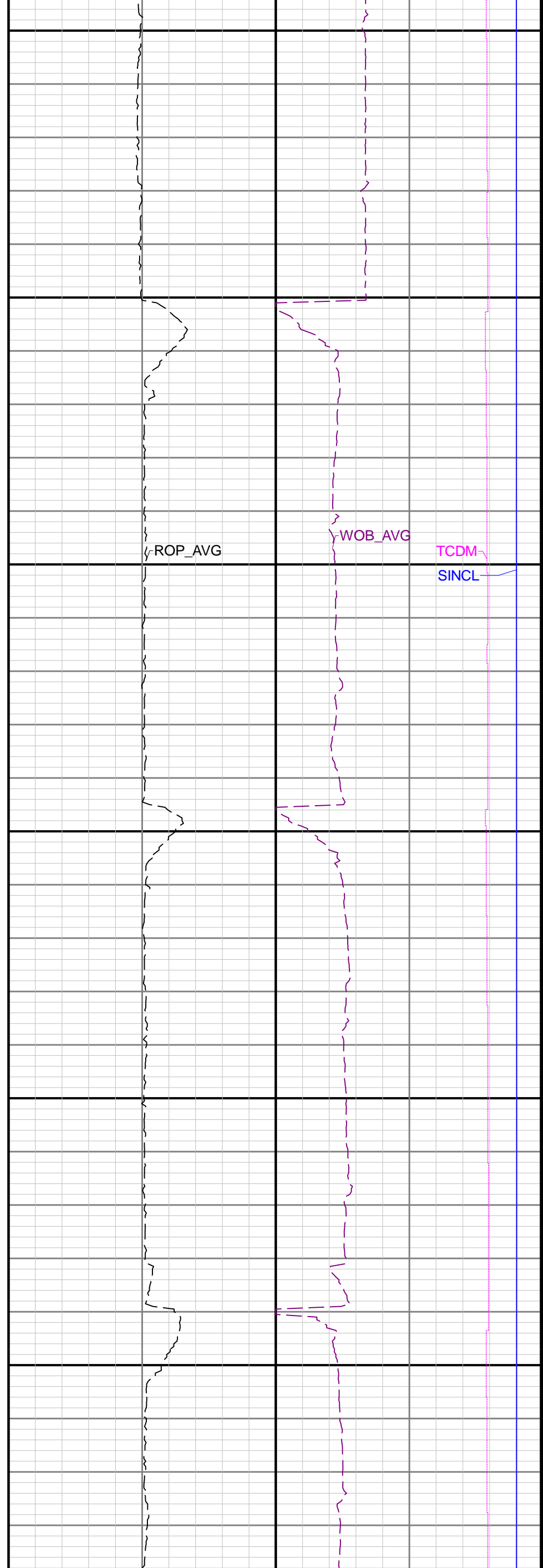
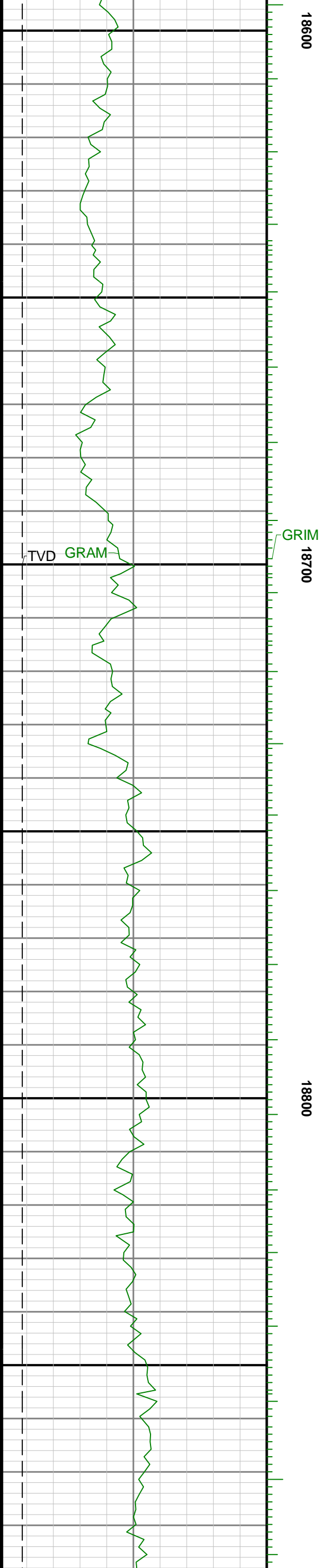


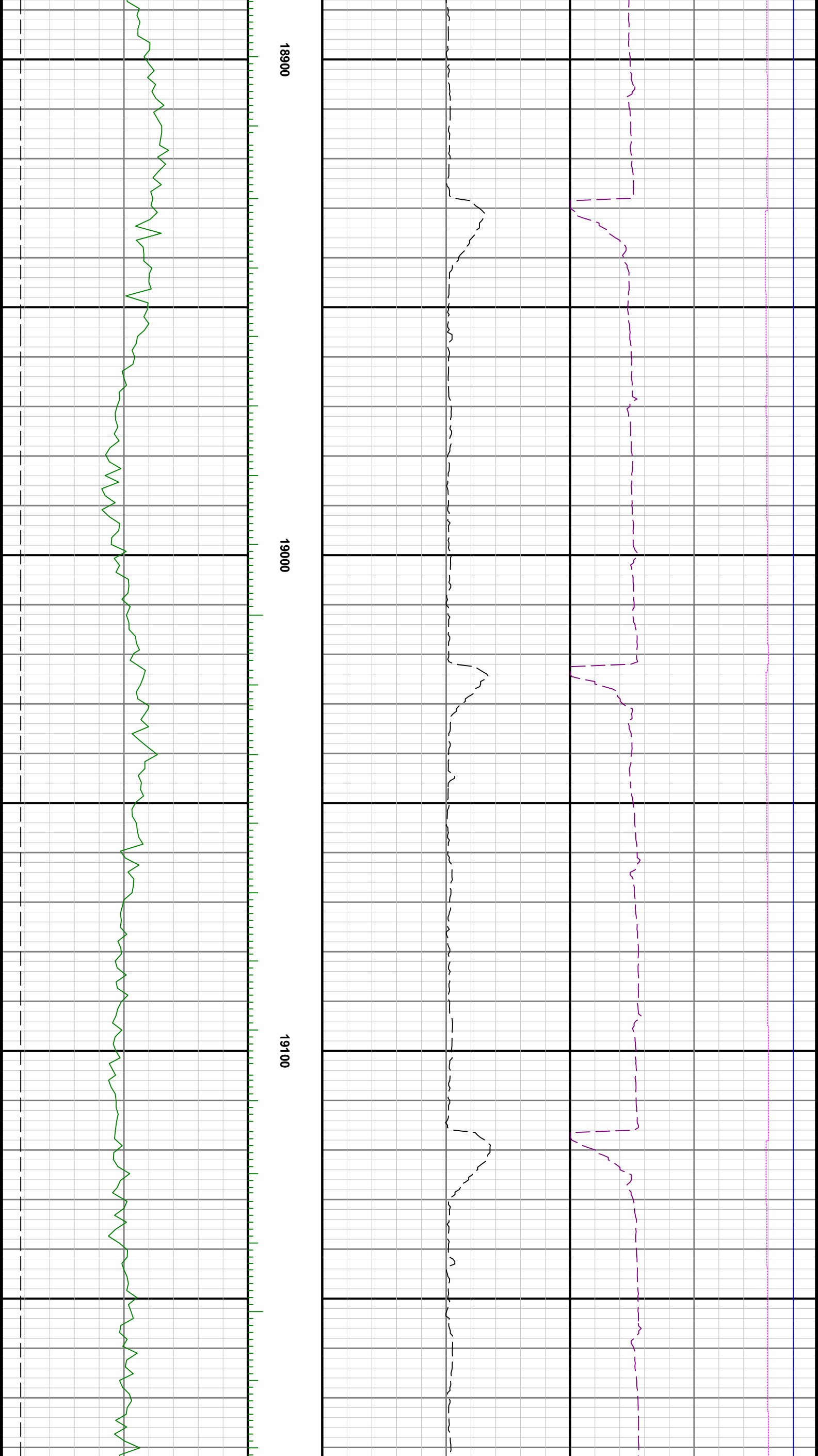
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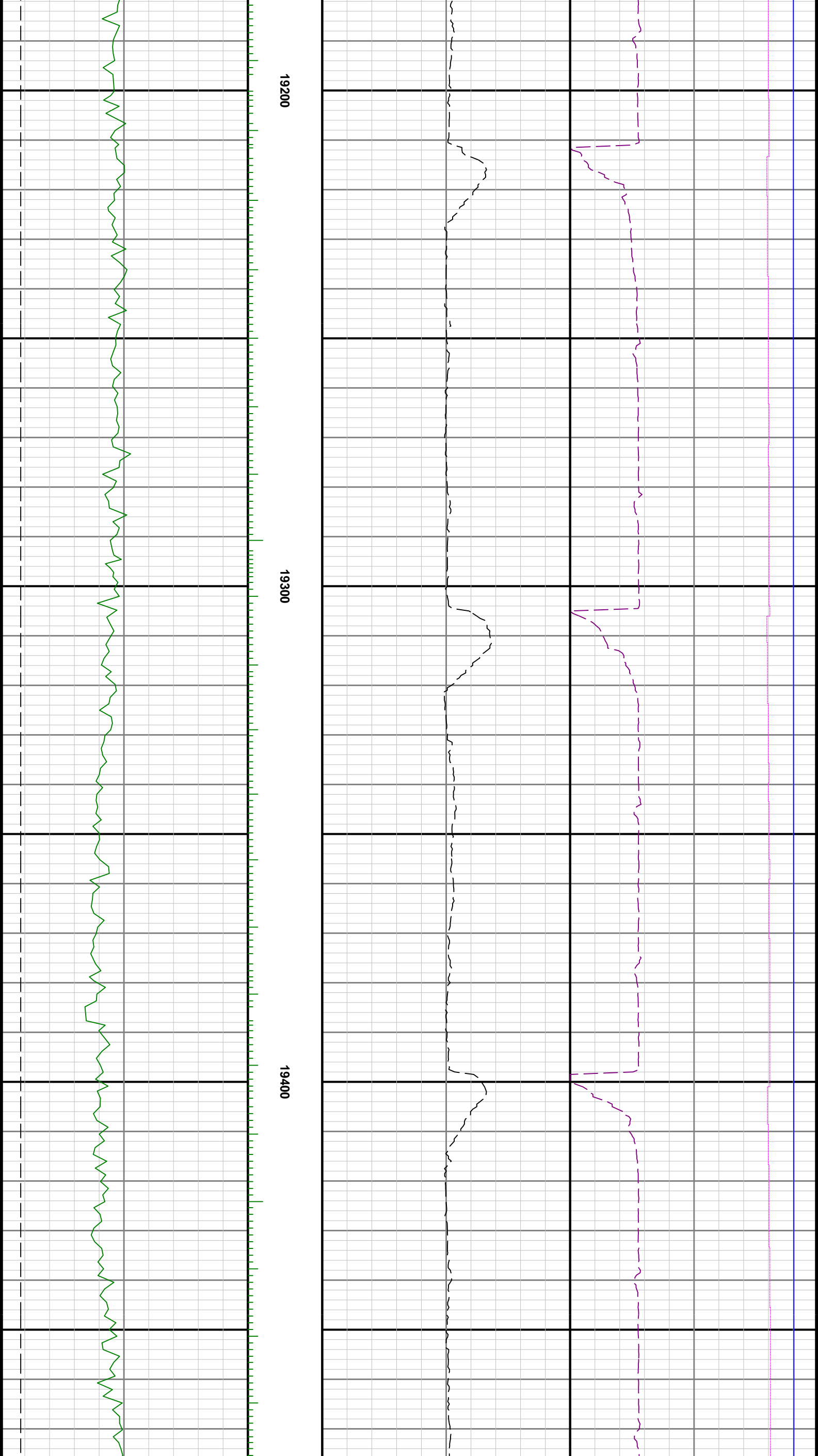
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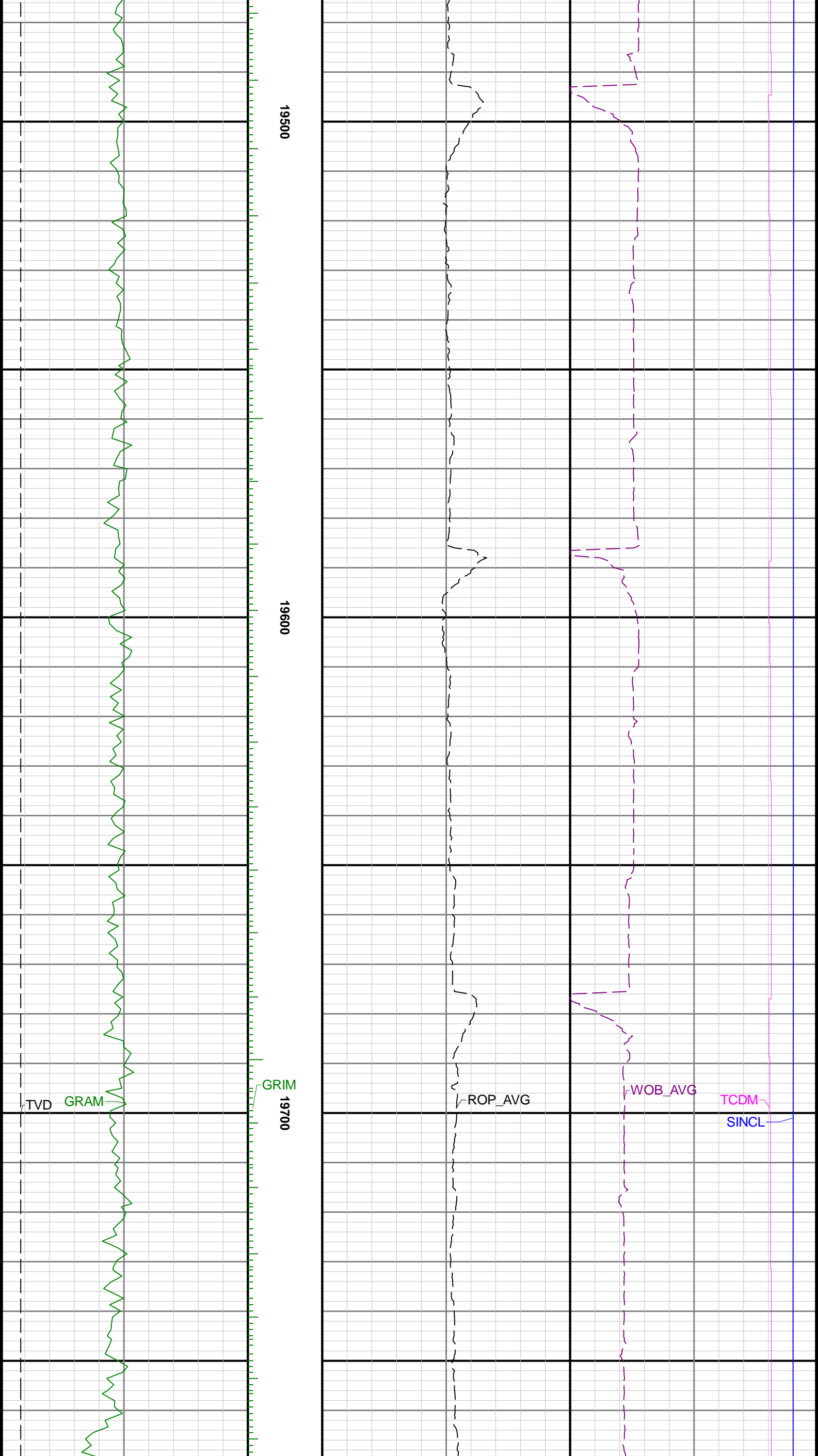
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19500

19600

19700

TVD GRAM

GRIM

ROP_AVG

WOB_AVG

TCDM

SINCL

