



Gamma Ray

LWD Memory Logs

Scale:

1:240

True Vertical Depth

Company: **Confluence Resources**

Well: **Willow 22-5-4L**

Field: **Wattenberg**

Country: **Weld** Country: **United States**

Driller's Depth **Colorado**

Status: **Final Print** Surface Location: **40° 01' 48.612" N** Other Services:

API No: **05123509420000** Longitude: **104° 39' 19.476" W** Azimuthal Gamma Ray

Job ID: **110892255** SEC: **22** TWN: **1N** RGE: **65W**

Permanent Datum (P.D.): **Mean Sea Level** Elevation: **0.00 ft** Elev. KB: **N/A**

Log Measured From: **Rig Floor** Above P.D.: **5118.00 ft** Elev. DF: **5118.00 ft**

Dates Interval **Magnetic Field Reference**

| | | | | | | |
|------------------|------------------|------------------|--|------|------------------|-------|
| From: 2021-05-20 | Drilled (ft) | Logged (ft) | Azi Reference North: | True | Dip Angle: (deg) | 66.28 |
| To: 2021-06-21 | Top: 105.00 | Top: 105.00 | Total Magnetic Field Strength: (nT) | | | 51760 |
| Spud: 2021-05-20 | Bottom: 20206.00 | Bottom: 20192.96 | Mag to Reference North Correction: (deg) | | | 7.96 |

Borehole Record

Casing Record

| Hole Size (in) | From (ft) | To (ft) | Size (in) | Weight (lb/ft) | From (ft) | To (ft) |
|----------------|-----------|---------|-----------|----------------|-----------|---------|
| 26.000 | 23.00 | 103.00 | 16.000 | 36.00 | 23.00 | 103.00 |
| 13.500 | 103.00 | 1574.00 | 9.625 | 36.00 | 23.00 | 1564.00 |
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Mud Record

Deviation Record

| Type | From (ft) | To (ft) | Hole Size (in) | Interval (ft) | Inc Az (Start) | Inc Az (End) |
|-----------------|-----------|----------|----------------|---------------|------------------|----------------|
| Water Based Mud | 103.00 | 1574.18 | 13.500 | 1471.18 | 0.51 157.56 | 3.10 211.84 |
| Oil Based Mud | 1574.00 | 20205.00 | 8.500 | 18631.00 | 3.10 211.84 | 90.74 0.22 |
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Software Version

Other

| | | |
|--------------------|------------|-----------------------------|
| Acquisition System | RT 5.9 | Rig: Ensign 161 |
| Plot Studio | 5.9.9111.3 | Contractor: Ensign Drilling |
| | | District: RMA |
| | | Unit: D&E |

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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 | |
| 1 | 1RR | 13.500 | PDC | 3.00 | Steerable | 105.00 | 1574.00 | 105.00 | 1574.00 | 2021-05-20 16:56 | 2021-05-20 23:38 | 9.21 |
| 2 | 2 | 8.500 | PDC | 3.00 | AutoTrak Curve | 1562.00 | 20193.00 | 1575.00 | 20206.00 | 2021-06-16 12:04 | 2021-06-21 09:25 | 106.40 |

Crew

| Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite | Name | Arrive Wellsite | Depart Wellsite |
|--------------|-----------------|-----------------|----------------|-----------------|-----------------|------|-----------------|-----------------|
| Adam Schlenz | 2021-05-20 | 2021-05-21 | David Browning | 2021-06-16 | 2021-06-22 | | | |

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+ (%) |
|------------------|---------|------------|-----------------|---------------|----------------|-----|------------------|-------------|------------|-----------------------|--------|
| 2021-05-21 02:00 | 1 | 1574.00 | Water Based Mud | 9.2 | N/A | 7.5 | N/A | 99/1 | Active Pit | 695 | 0.00 |
| 2021-06-16 06:22 | 2 | 1564.00 | Oil Based Mud | 9.8 | 24 | N/A | 9.0 | 68.5/18.5 | Active Pit | 35000 | 0.00 |
| 2021-06-16 14:00 | 2 | 1905.00 | Oil Based Mud | 9.7 | 21 | N/A | N/A | 67/18 | Active Pit | 33000 | 0.00 |
| 2021-06-17 04:00 | 2 | 5929.00 | Oil Based Mud | 9.7 | 21 | N/A | N/A | 65/20 | Active Pit | 37000 | 0.00 |
| 2021-06-17 15:00 | 2 | 7450.00 | Oil Based Mud | 9.7 | 25 | N/A | N/A | 67/18.5 | Active Pit | 35000 | 0.00 |
| 2021-06-18 02:30 | 2 | 8685.00 | Oil Based Mud | 9.7 | 23 | N/A | N/A | 68/17.5 | Active Pit | 35000 | 0.00 |

| | | | | | | | | | | | |
|------------------|---|----------|---------------|------|----|-----|-----|---------|------------|-------|------|
| 2021-06-19 02:00 | 2 | 13092.00 | Oil Based Mud | 10.0 | 22 | N/A | N/A | 68/15.5 | Active Pit | 36000 | 0.00 |
| 2021-06-19 14:00 | 2 | 14632.00 | Oil Based Mud | 10.0 | 23 | N/A | N/A | 67/16 | Active Pit | 33000 | 0.00 |
| 2021-06-20 02:30 | 2 | 16453.00 | Oil Based Mud | 10.1 | 21 | N/A | N/A | 68/15.5 | Active Pit | 35000 | 0.00 |
| 2021-06-20 15:00 | 2 | 18405.00 | Oil Based Mud | 10.1 | 23 | N/A | N/A | 67/16 | Active Pit | 34000 | 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 | DHP 815 | VSS | 16.12 | 52.25 | 8.000 | 3.125 |
| 1 | NaviTrak | DHP 815 | Directional (mag) | 16.12 | 52.25 | 8.000 | 3.125 |
| 2 | AutoTrak Curve Steering Unit | 13867779 | Near Bit VSS | 5.93 | 6.90 | 7.000 | 4.330 |
| 2 | AutoTrak Curve Steering Unit | 13867779 | Near Bit Inclination | 5.93 | 6.90 | 7.000 | 4.330 |
| 2 | AutoTrak Curve MWD | 12398256 | Gamma (single) | 2.75 | 13.04 | 7.000 | 3.250 |
| 2 | AutoTrak Curve MWD | 12398256 | Directional (mag) | 12.30 | 22.59 | 7.000 | 3.250 |

Service and Tool Mnemonics

| Mnemonic | Name | Description |
|----------|---------------------|---|
| NTK | NaviTrak | Probe Based Directional Module, NaviTrak Platform |
| ATC SU | AutoTrak Curve SU | Auto Trak Curve Steering Unit |
| ATC MWD | AutoTrak Curve MWD | Auto Trak Curve MWD |
| ATC LCPM | AutoTrak Curve LCPM | Auto Trak Curve LCPM |

Comments

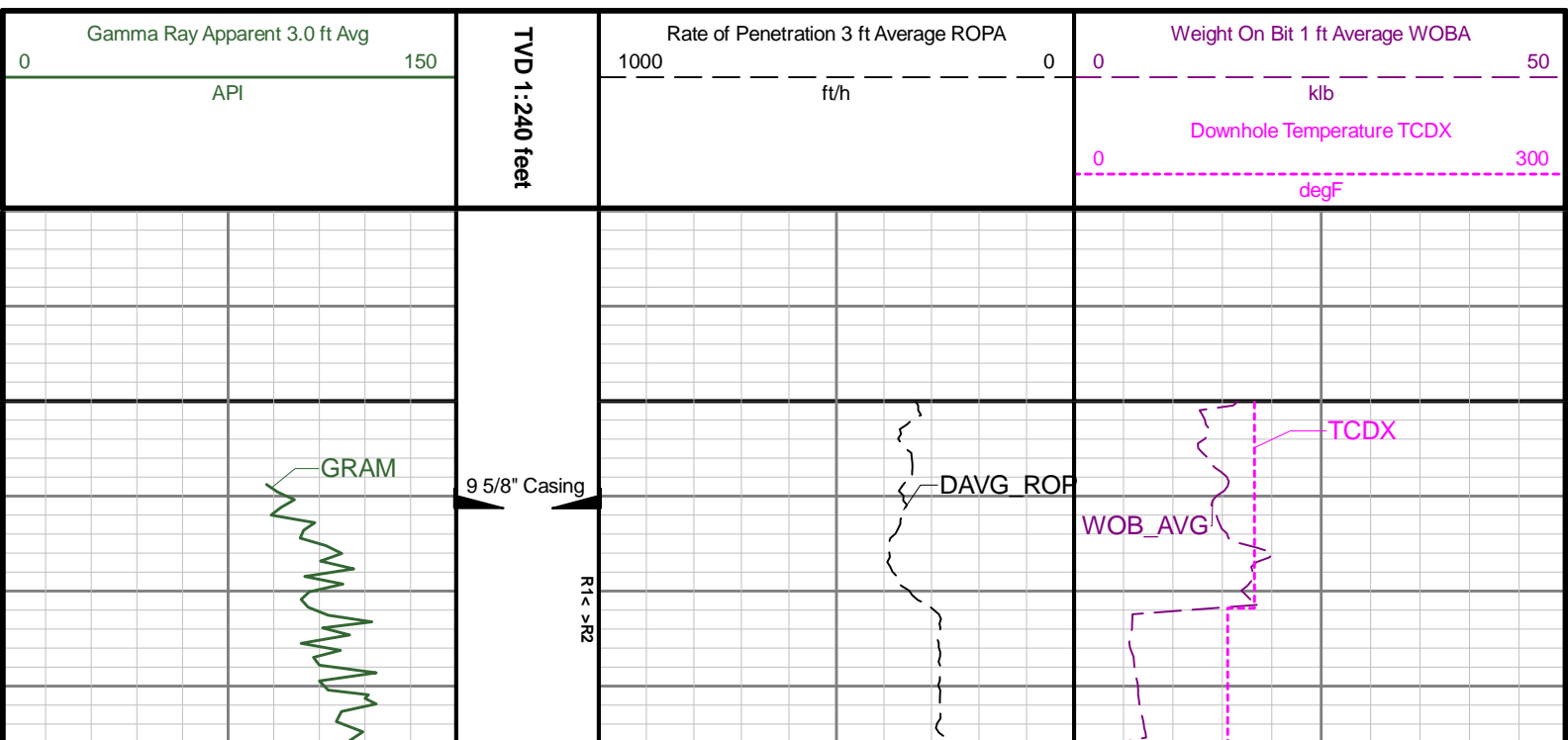
- 1 Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes Company. Due to a lack of control by Baker Hughes Company logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes Company are being used to present logging data.
- 2 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 steerable assembly from 1574 to 20205 feet MD (1571 to 7435 feet TVD).

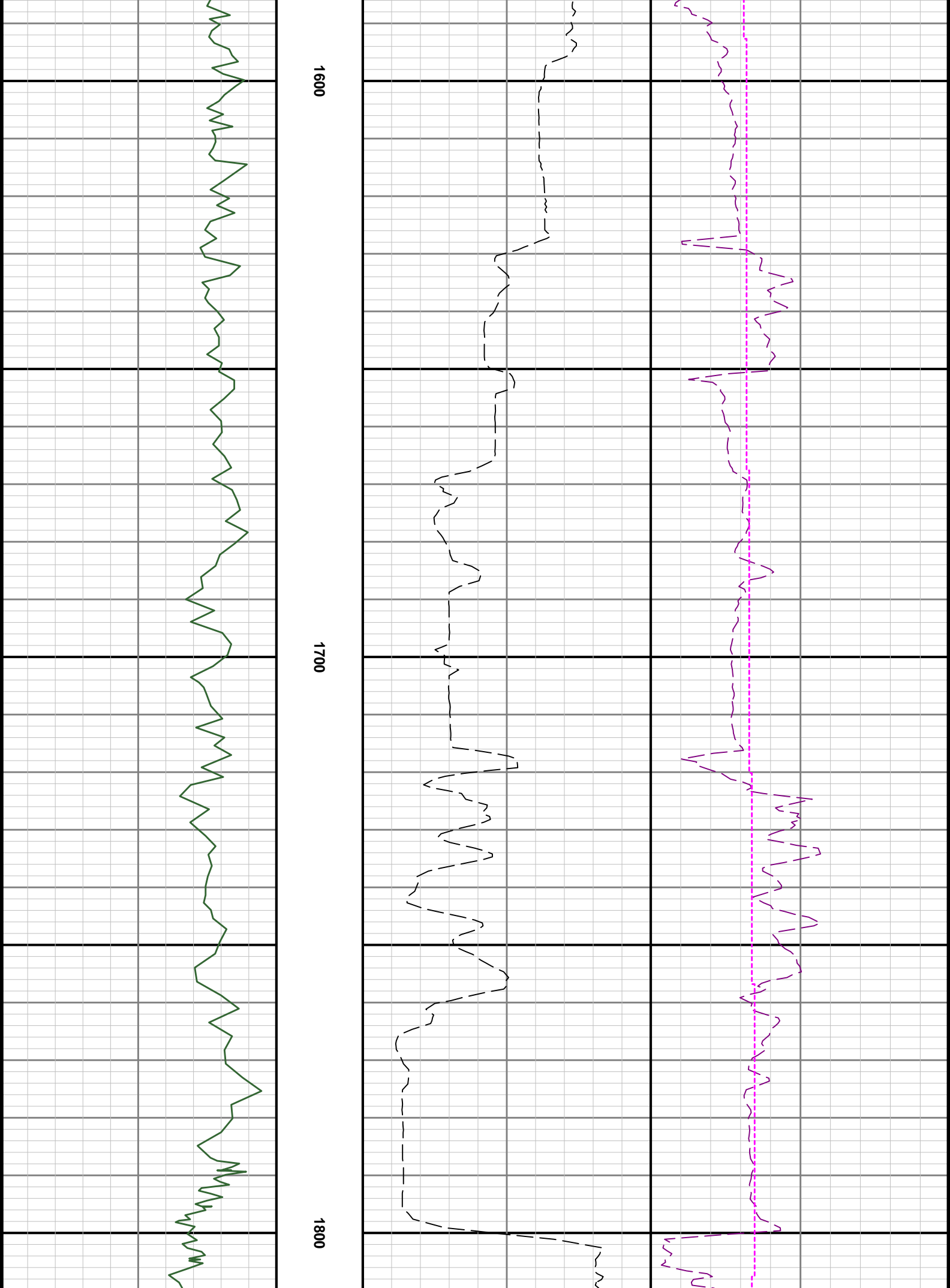
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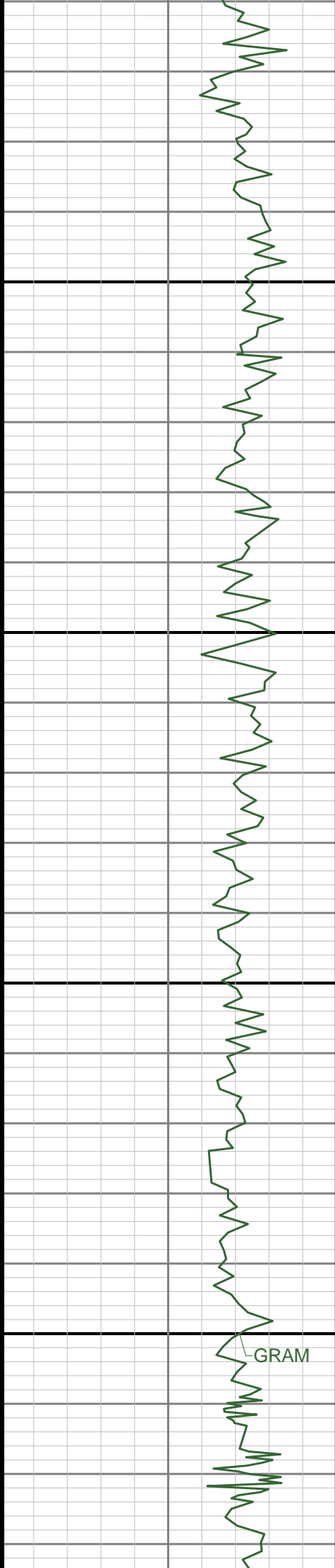
| Number | Depth (ft) | Hole Section (in) | Run No. | Remark |
|--------|------------|-------------------|---------|--|
| 1 | 5700.00 | 8.500 | 2 | The gap in gamma ray data from 5690 to 5738 feet MD (5681 to 5729 feet TVD) is due to the AutoTrak Curve tool turning off during a downlink and not turning back on until pumps were recycled at the connection. |
| 2 | 20205.00 | 8.500 | 2 | The interval from 20193to 20205 feet MD 7436 feet TVD) was not logged due to sensor to bit offset at well TD. |

Curve Mnemonics

| Presented Curves | Description | Units |
|------------------|--------------------------------------|-------|
| TCDX | Downhole Temperature | degF |
| ROPA | Depth Averaged ROP 3 ft Average | ft/h |
| WOBA | Weight on Bit - Average 1 ft Average | klb |
| GRAM | Gamma Ray - Apparent - Memory | API |

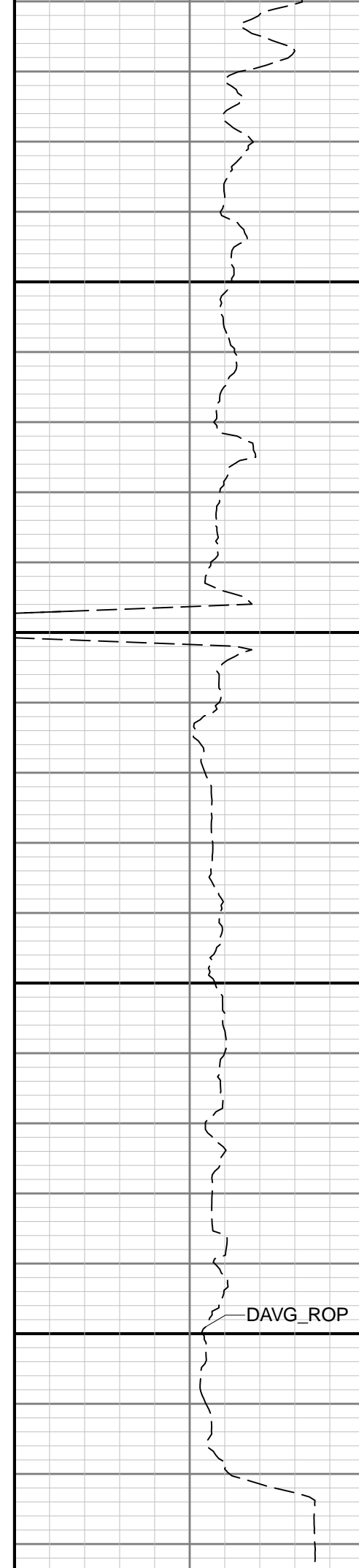




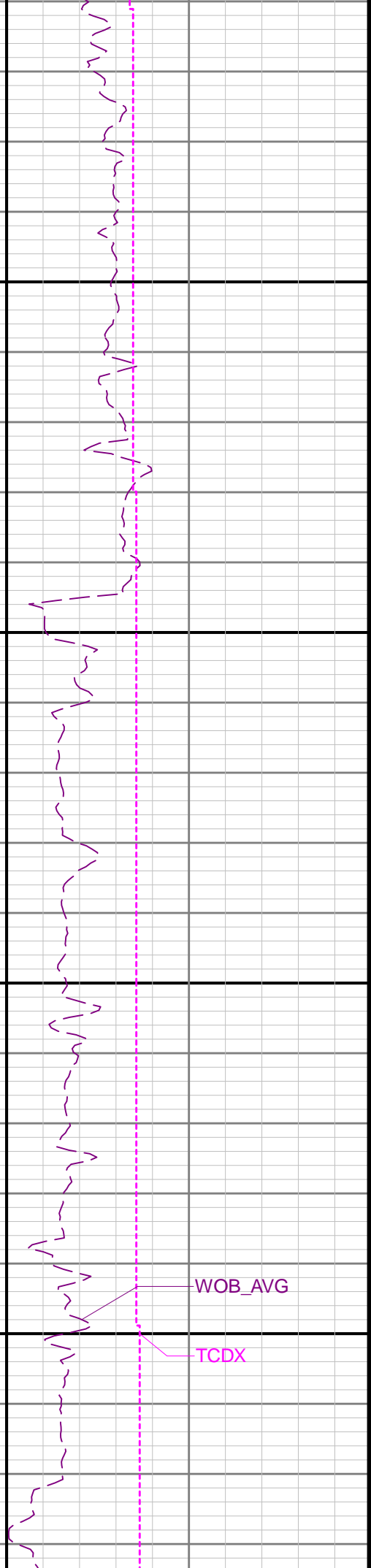


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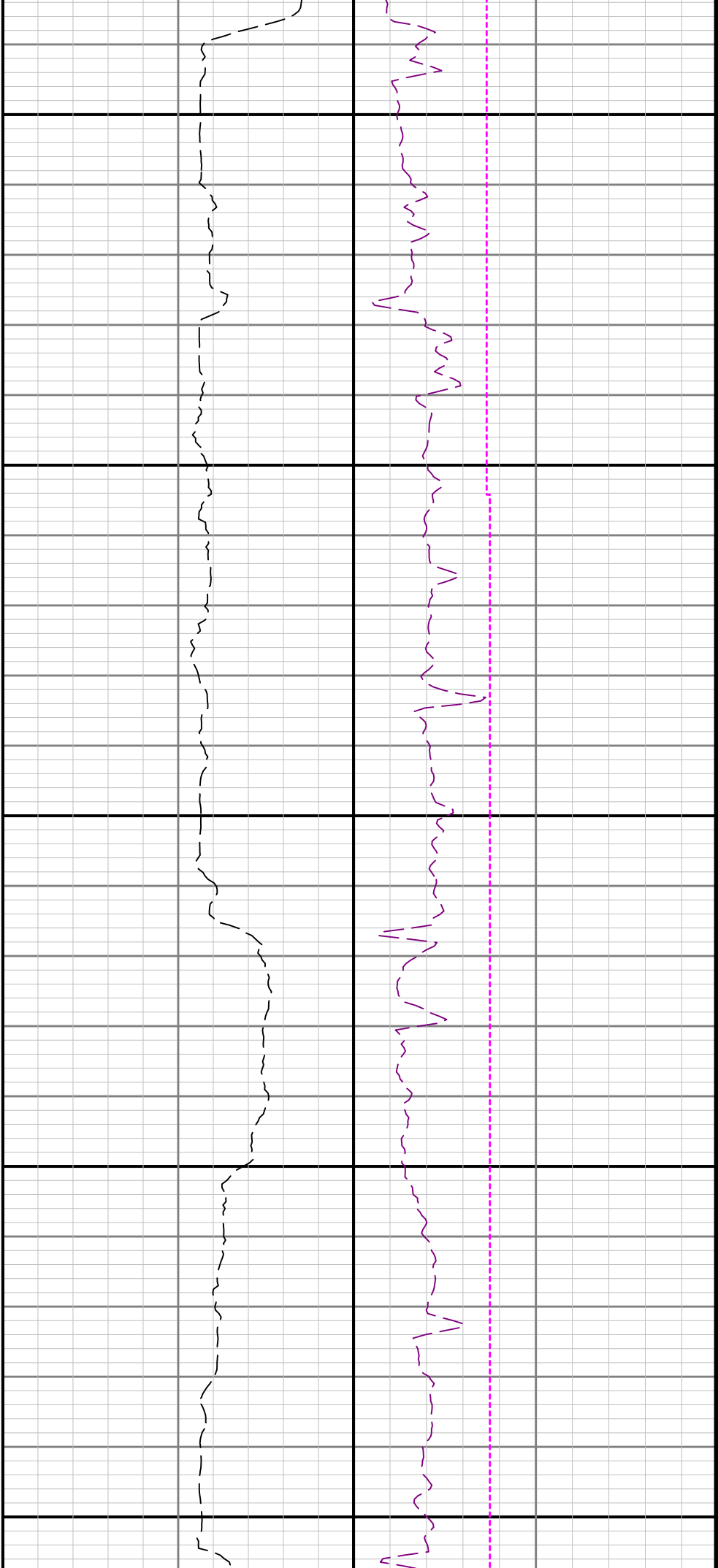


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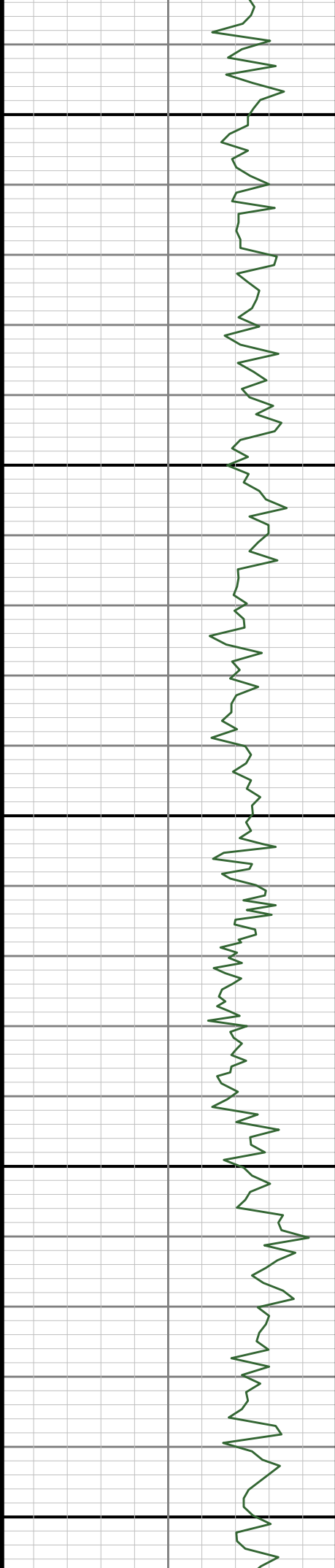
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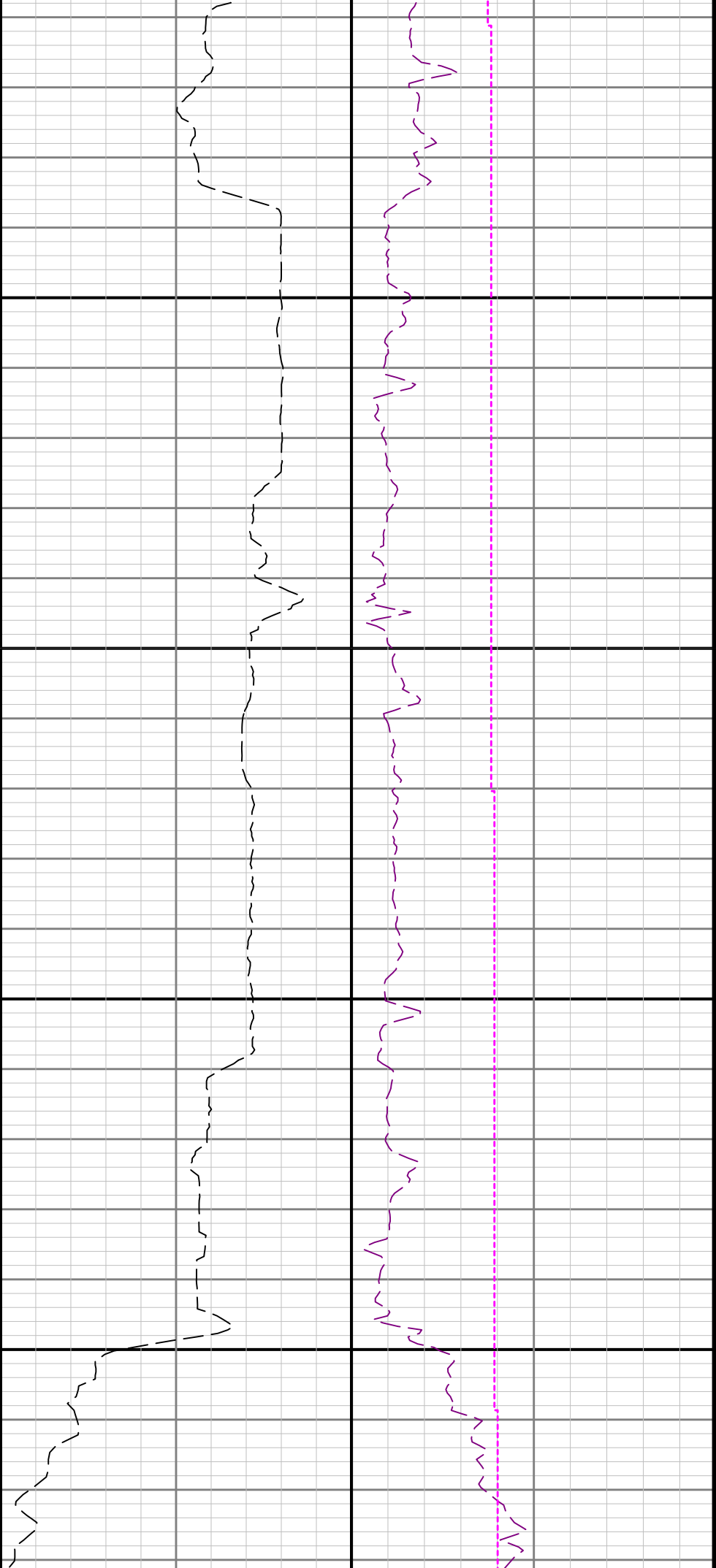
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2200

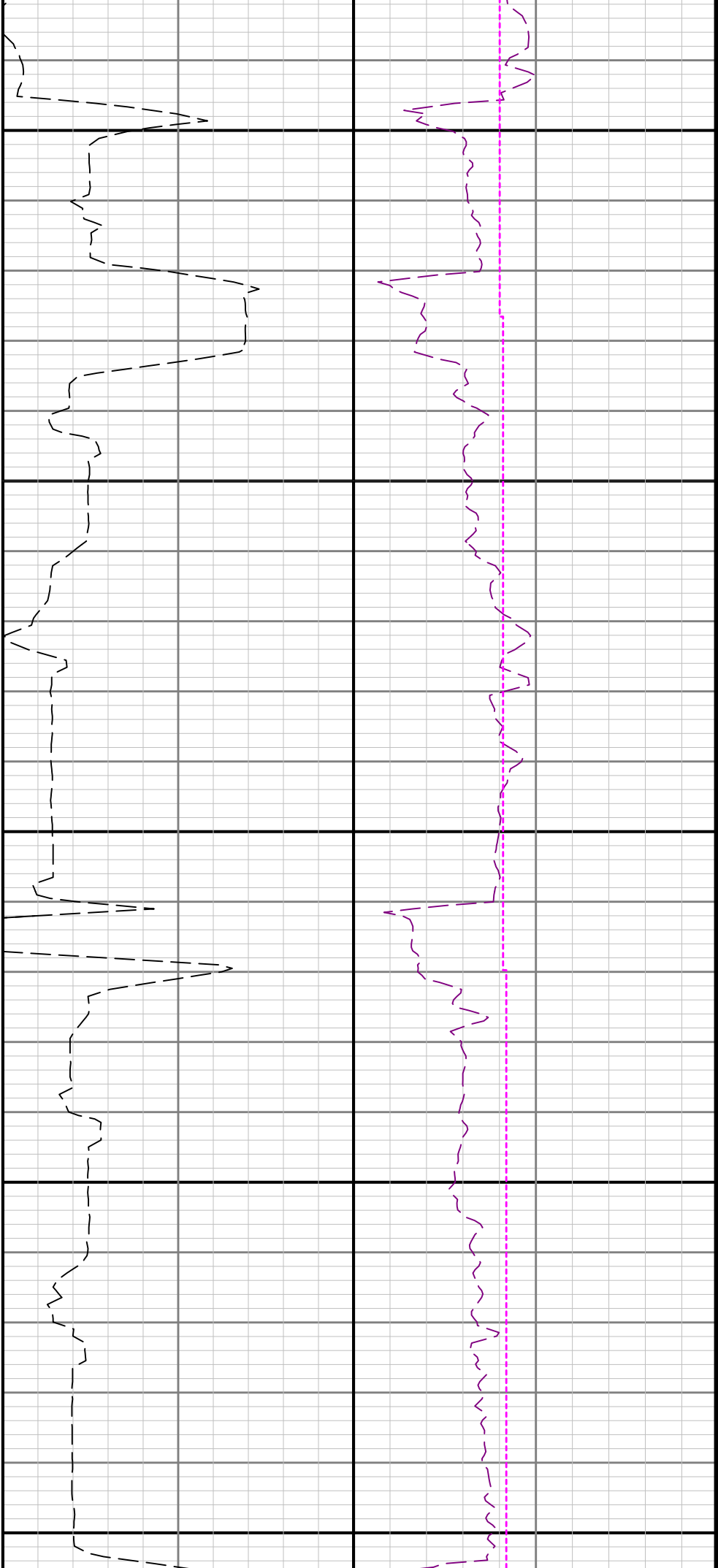




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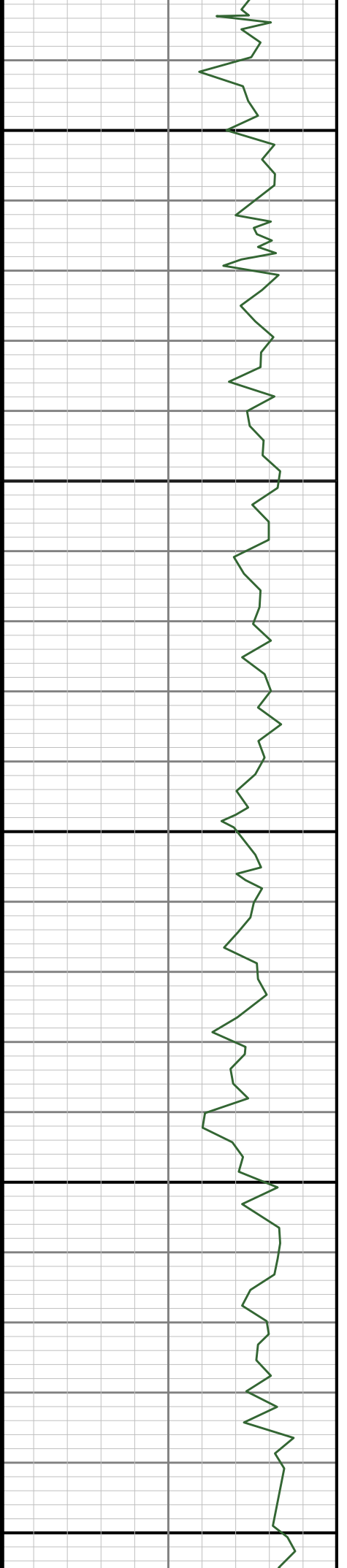


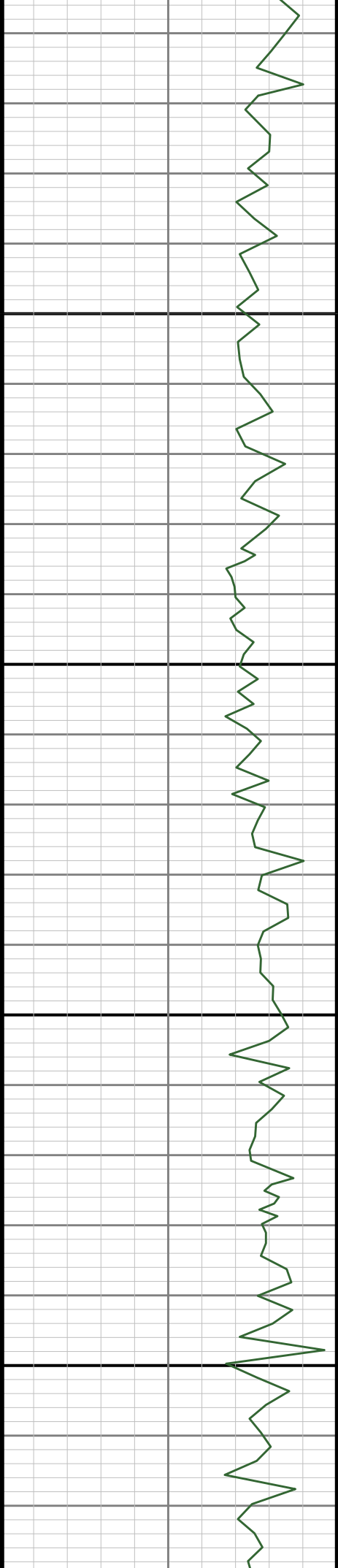


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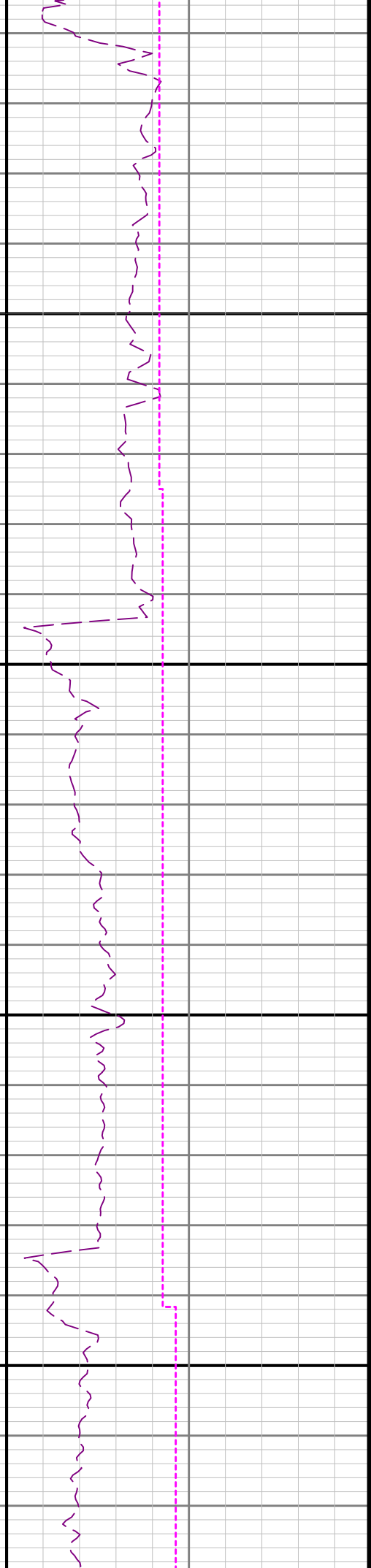
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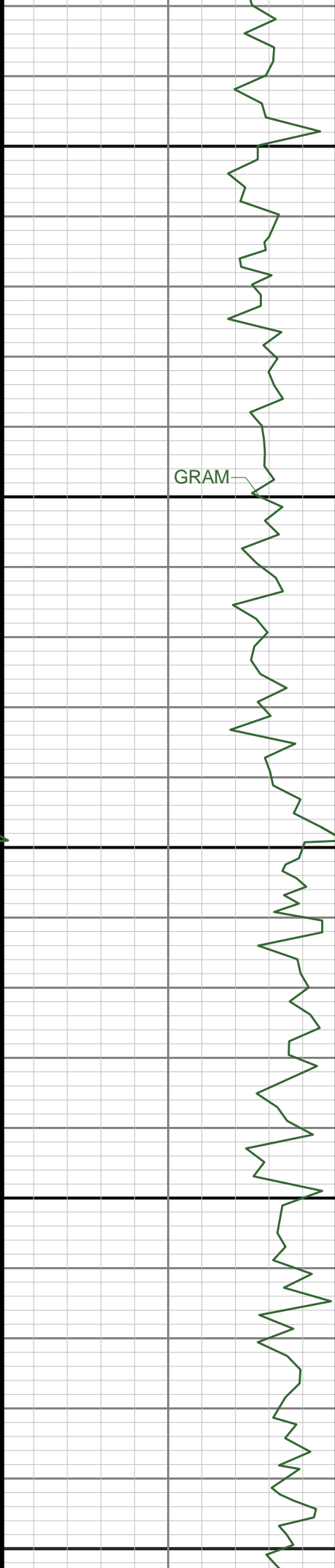




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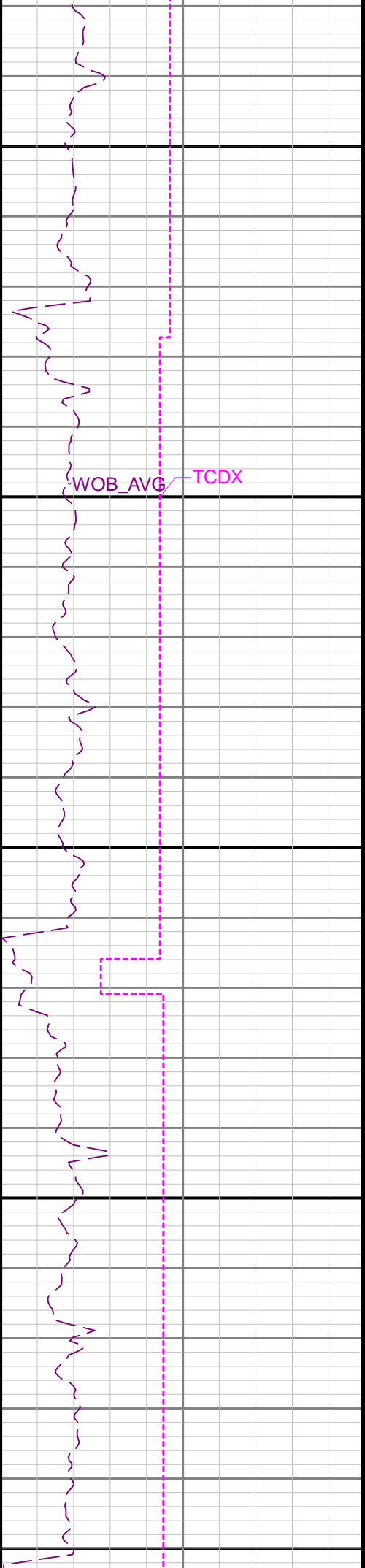
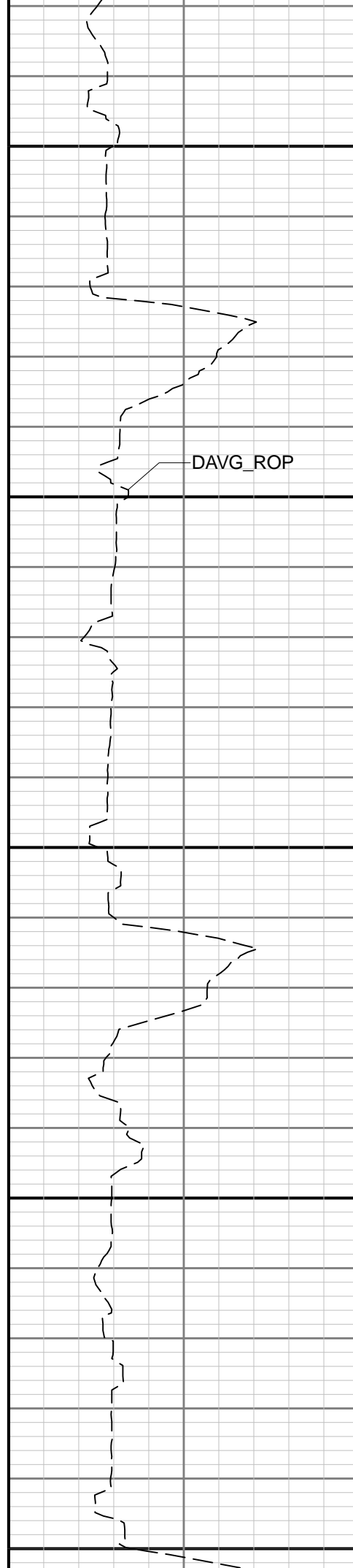
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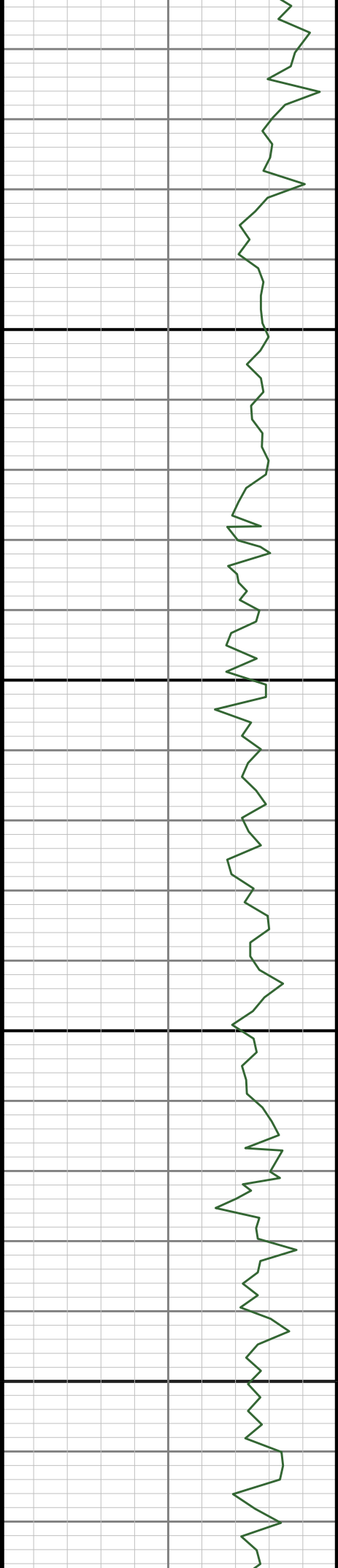




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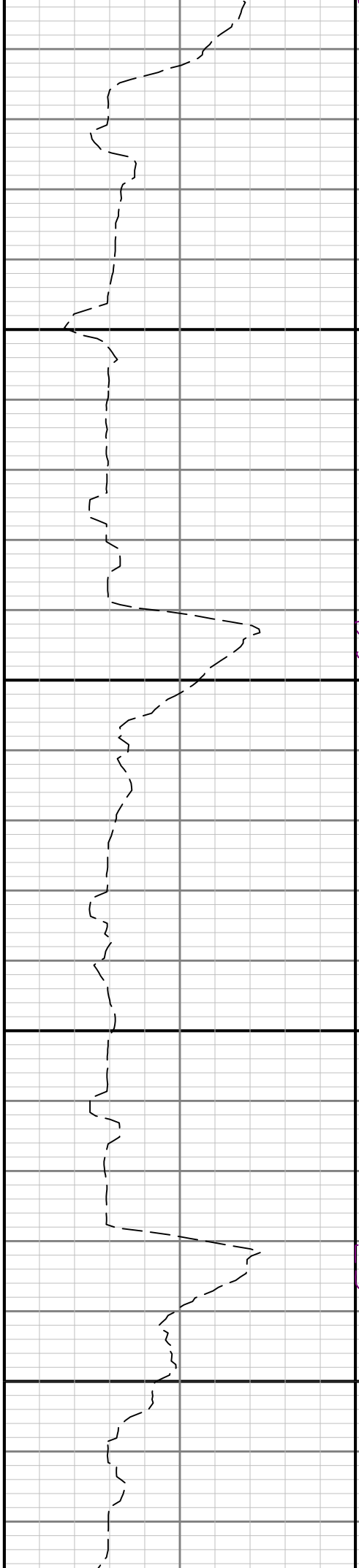
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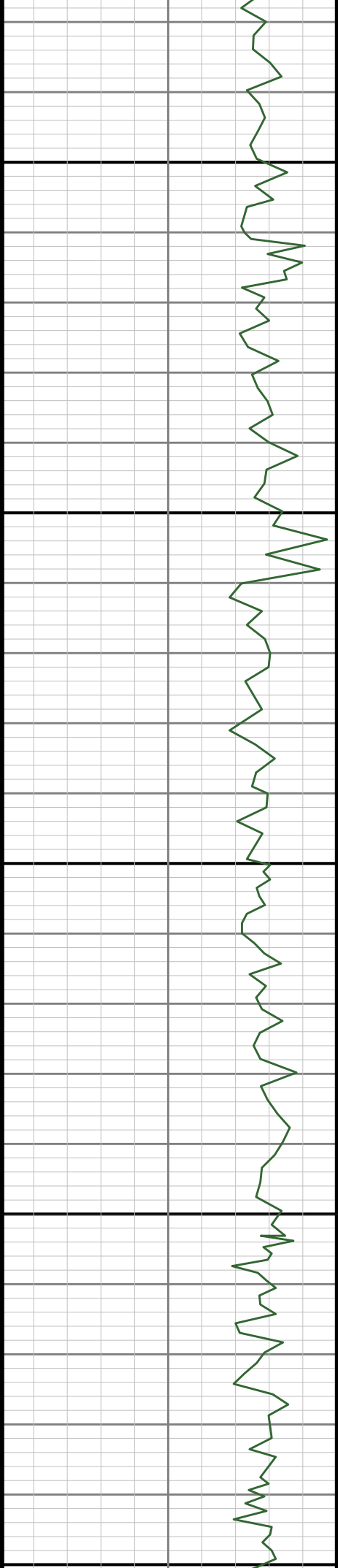




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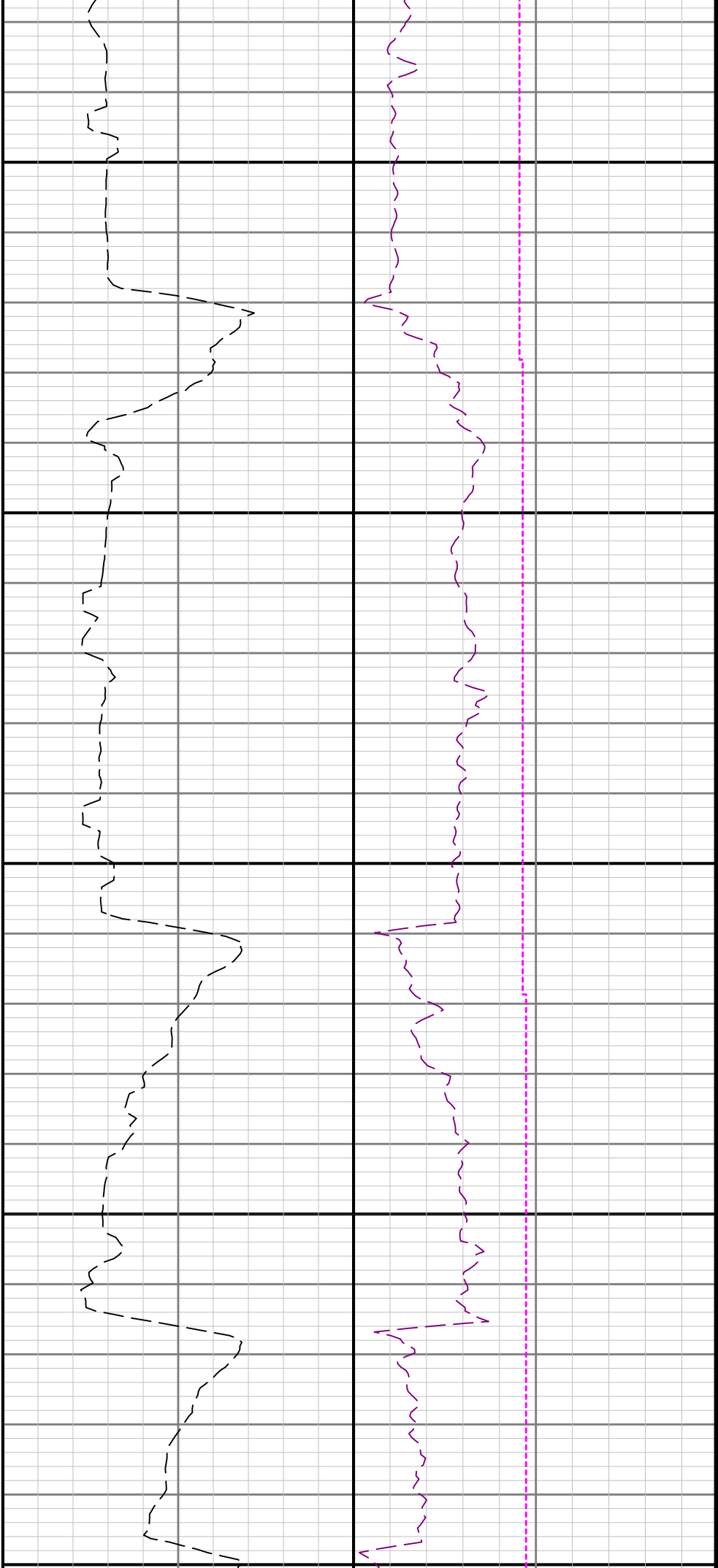


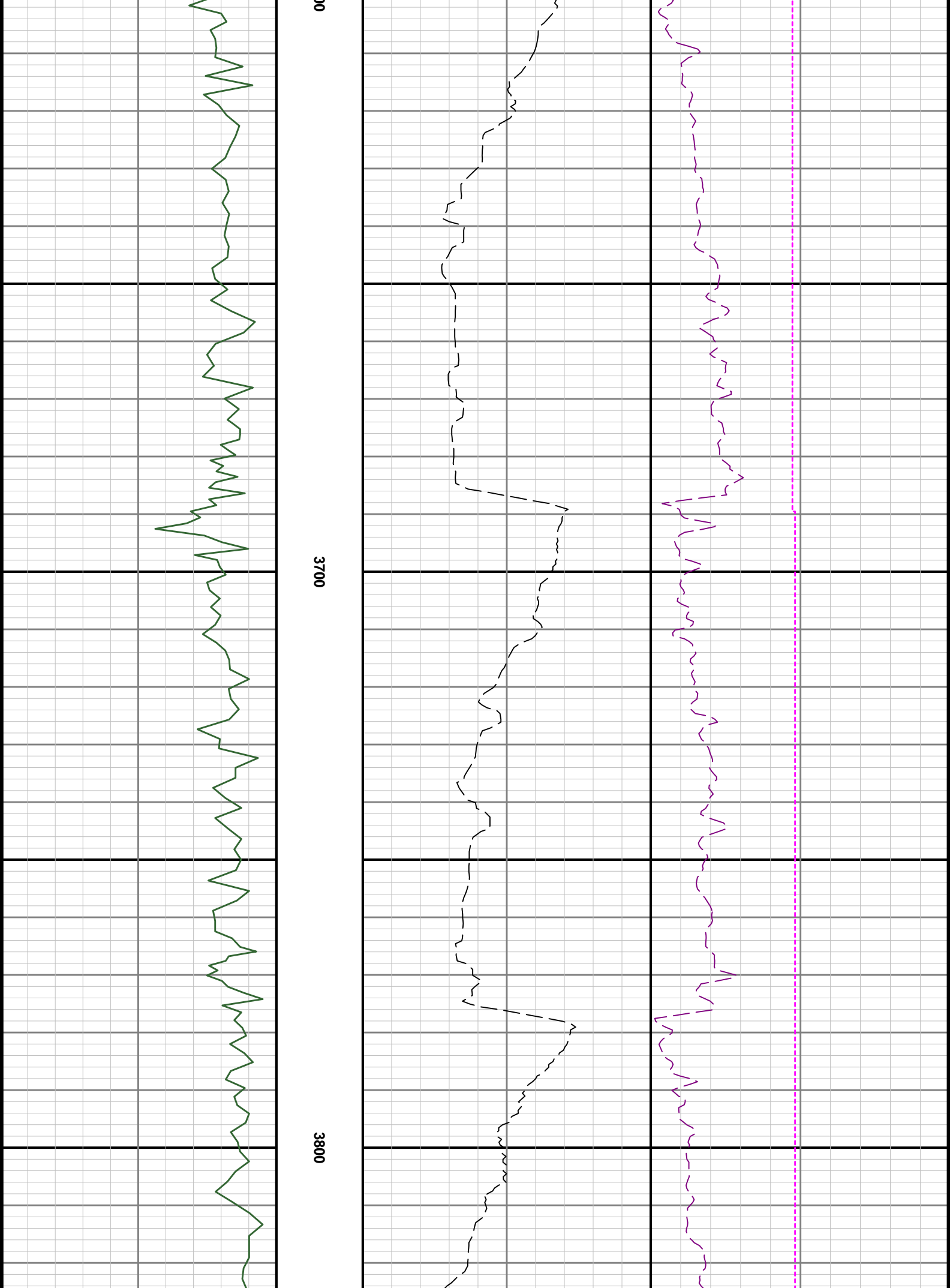


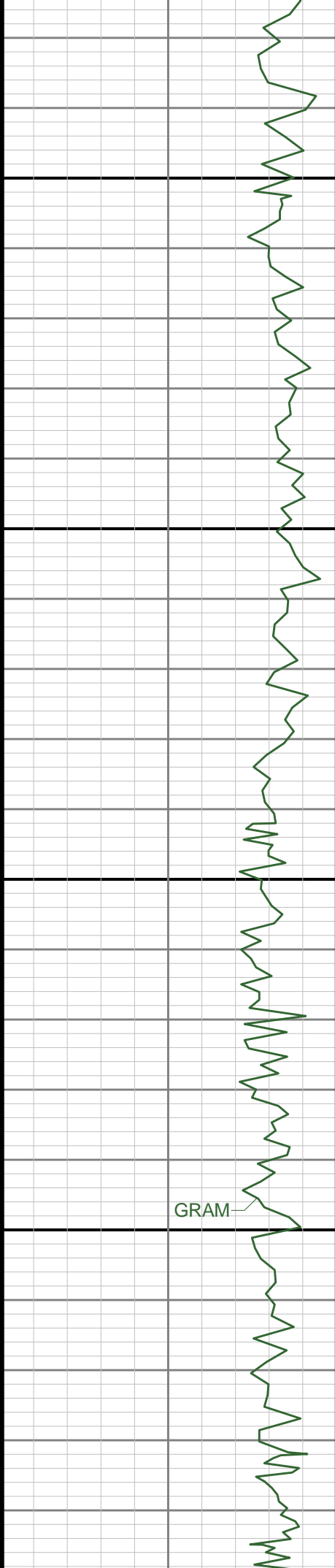
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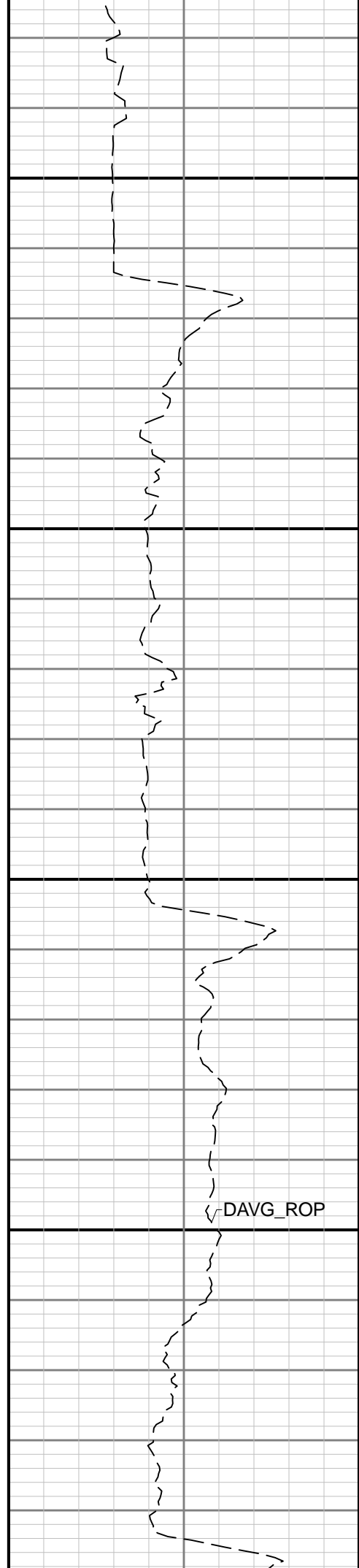




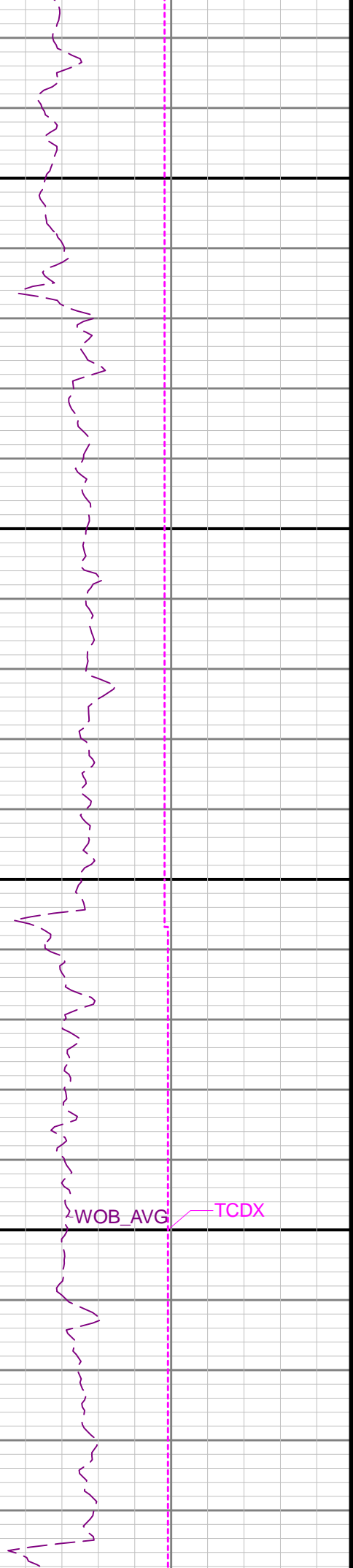
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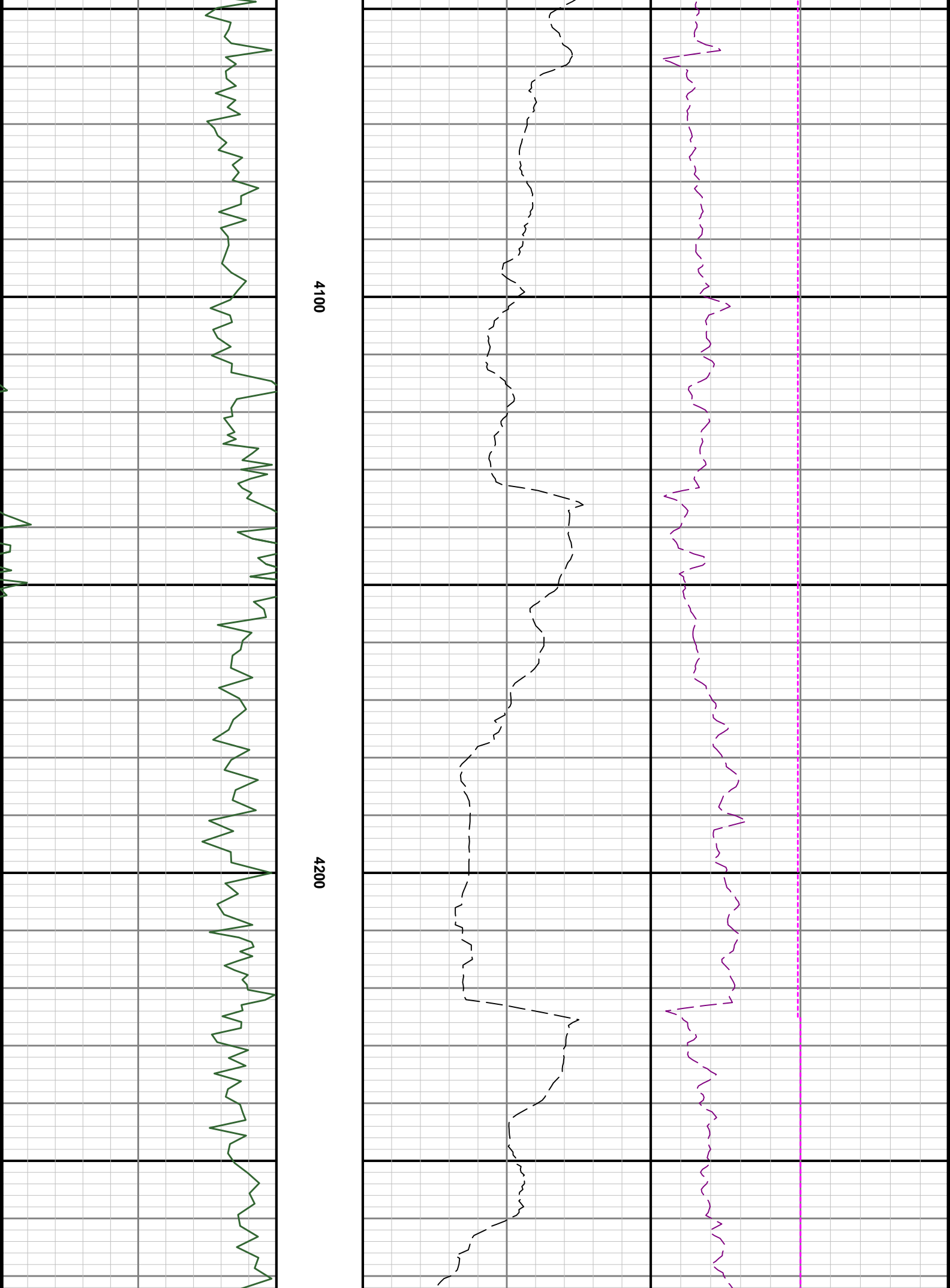


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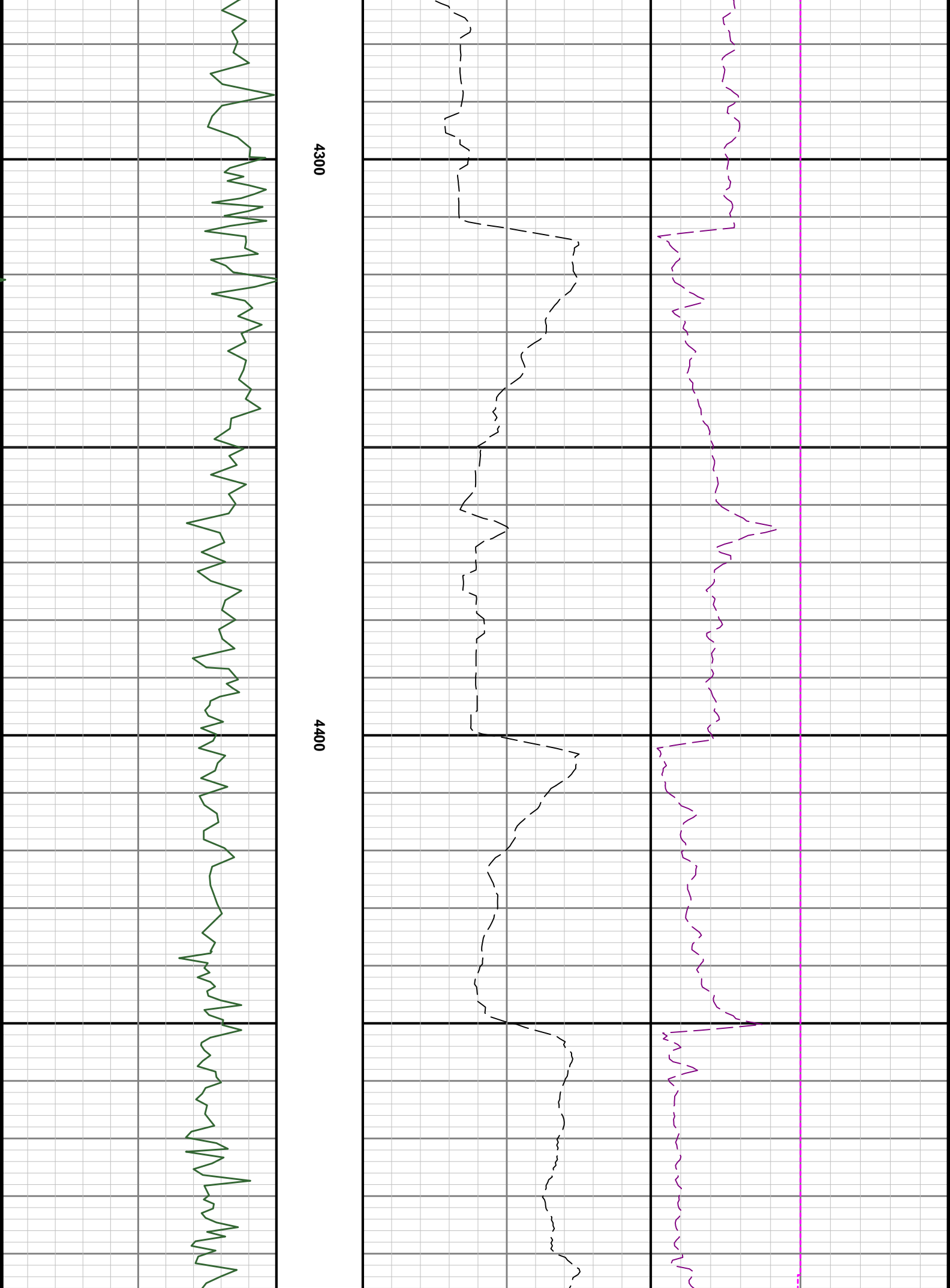
WOB_AVG

TCDX



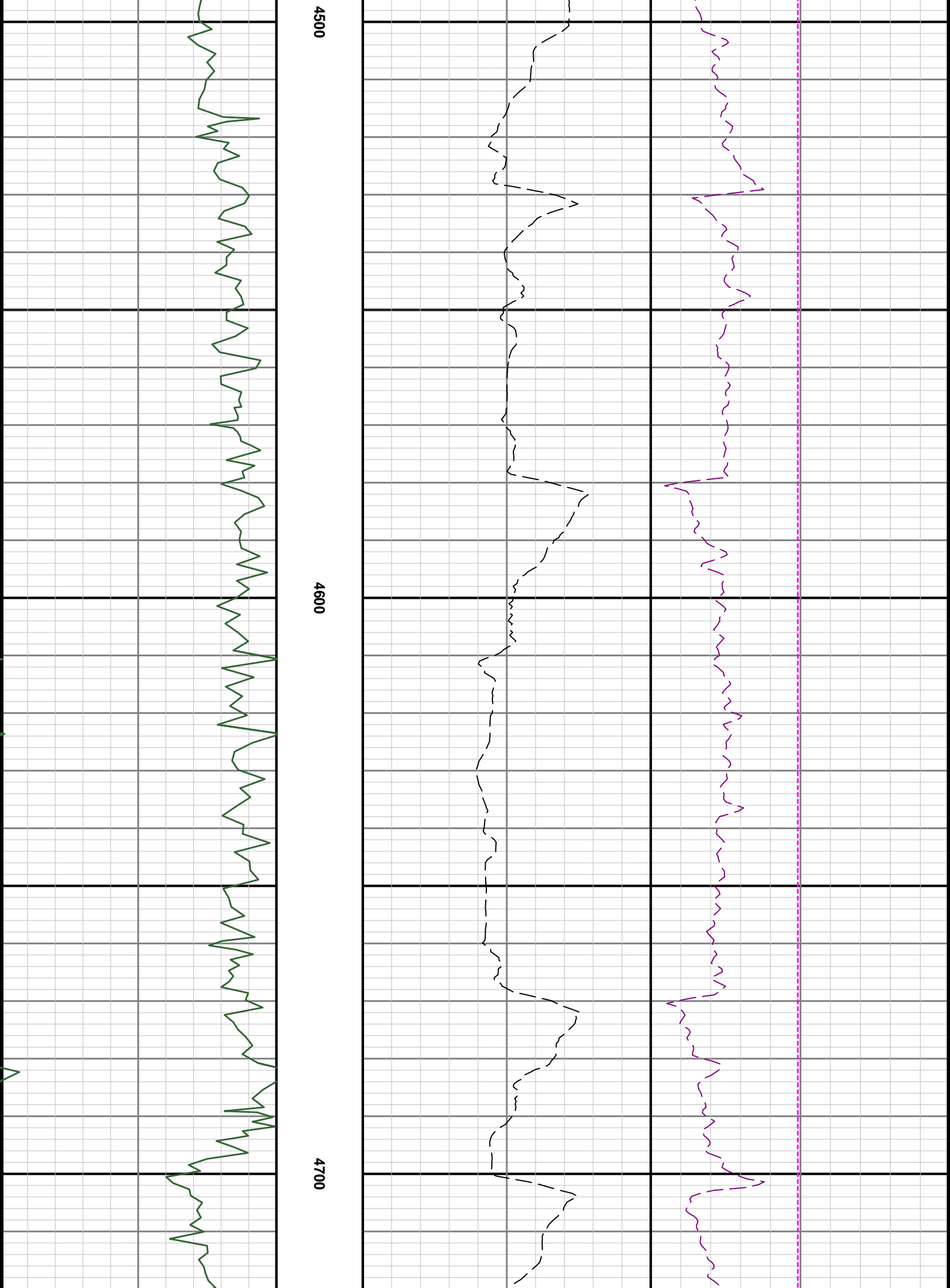
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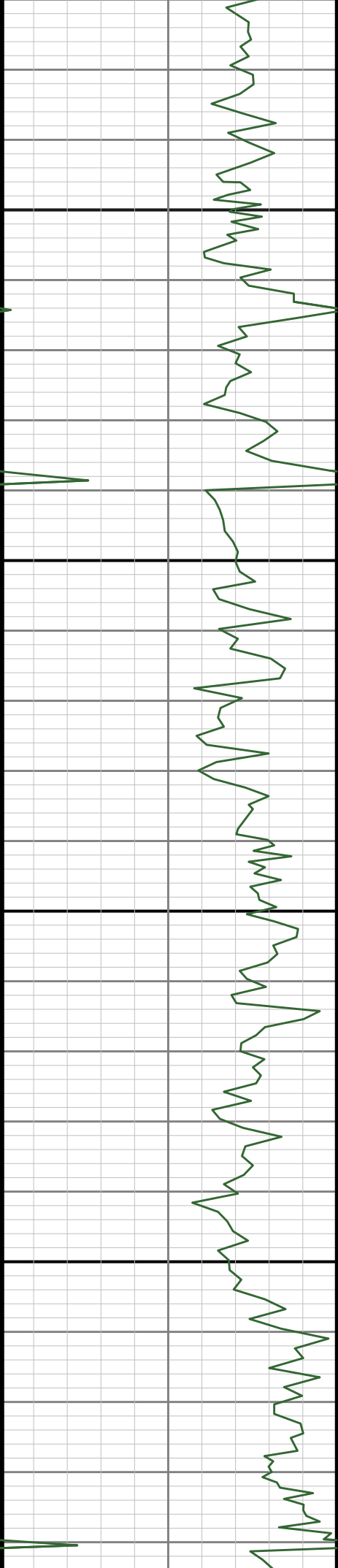
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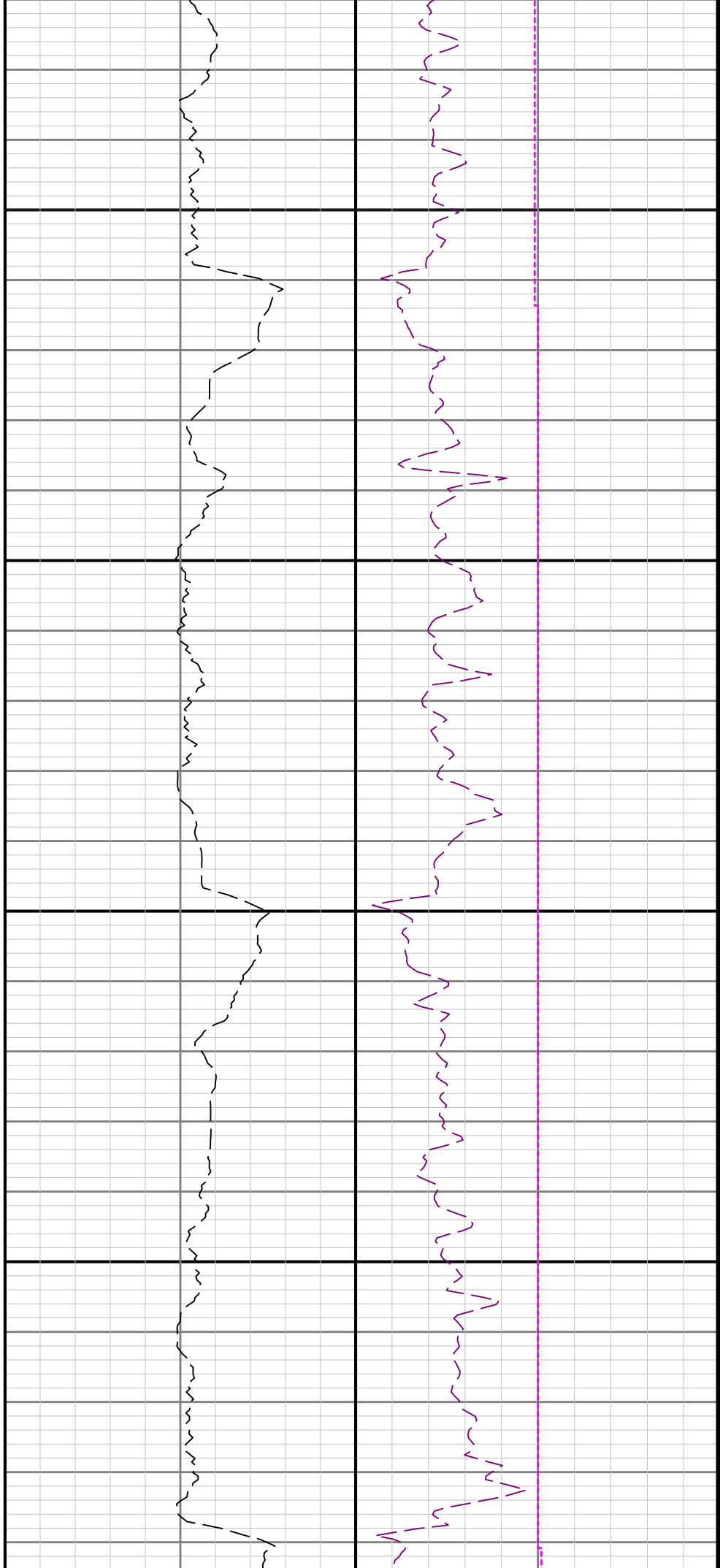
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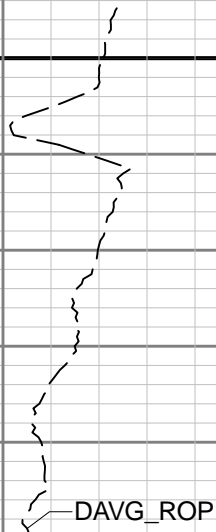
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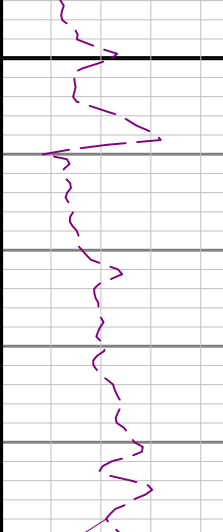


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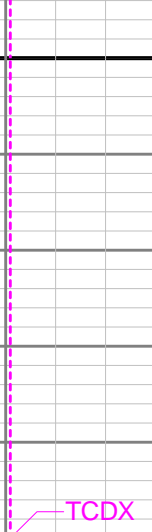
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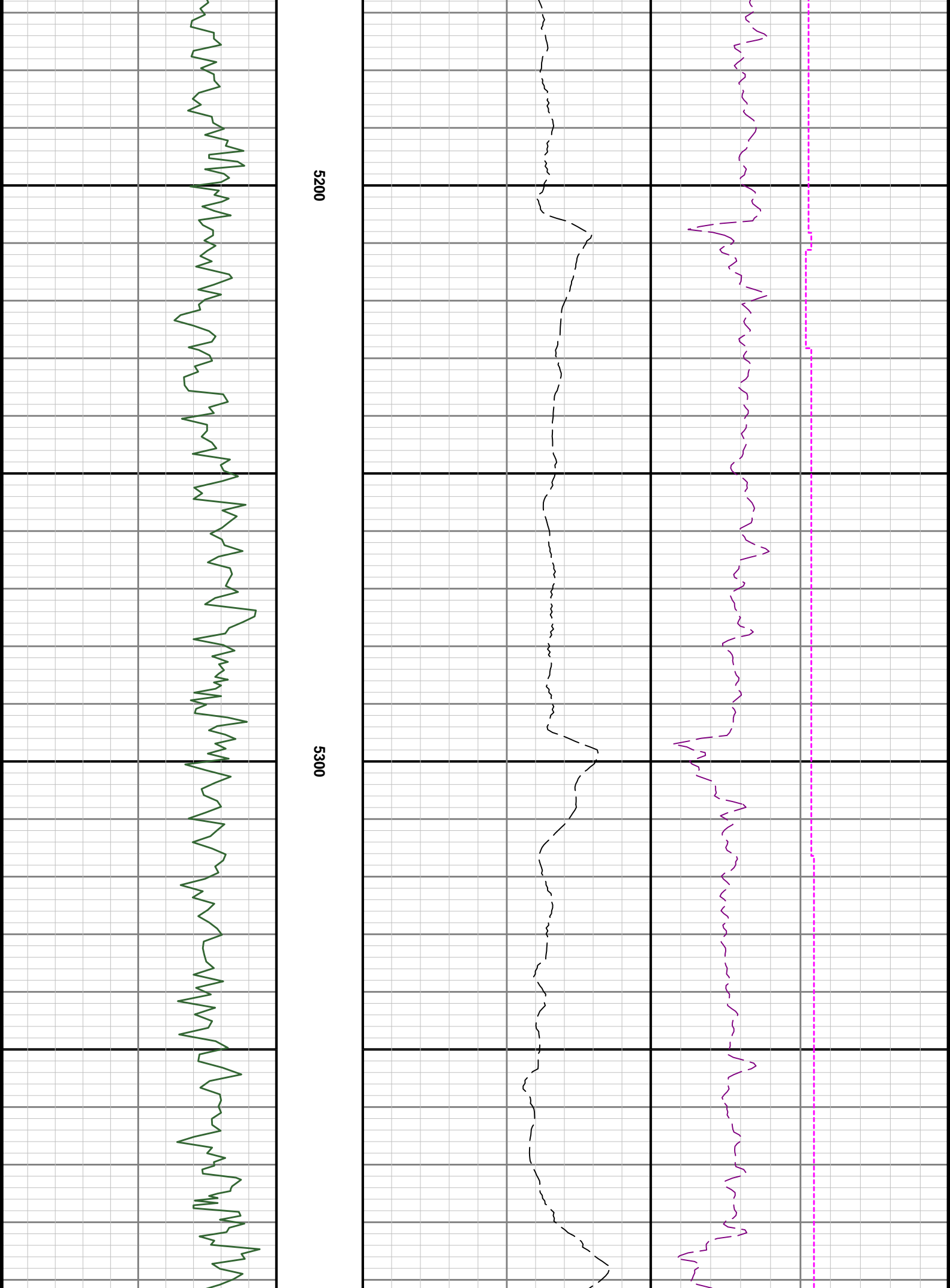
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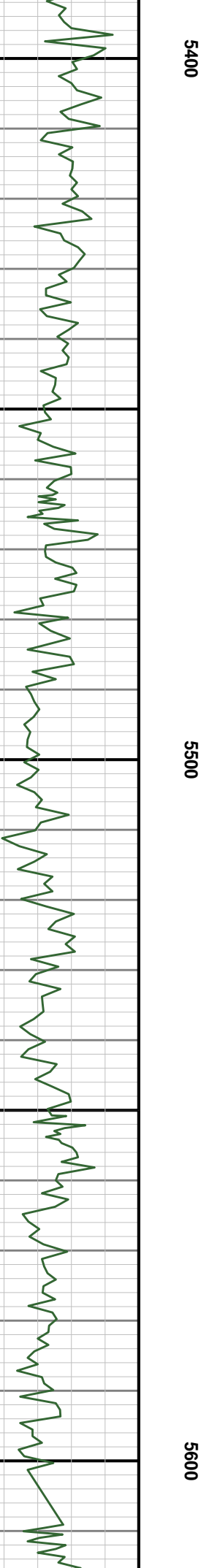
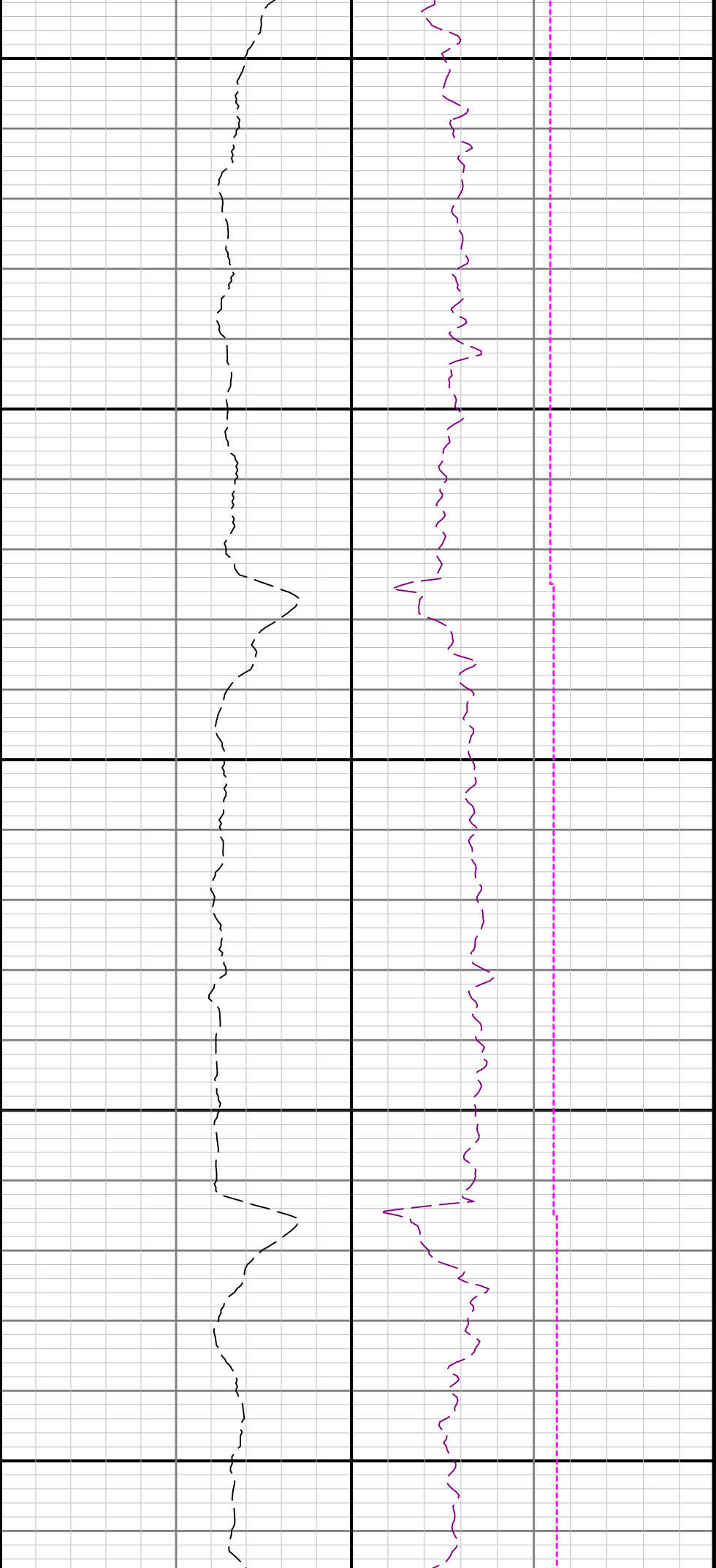


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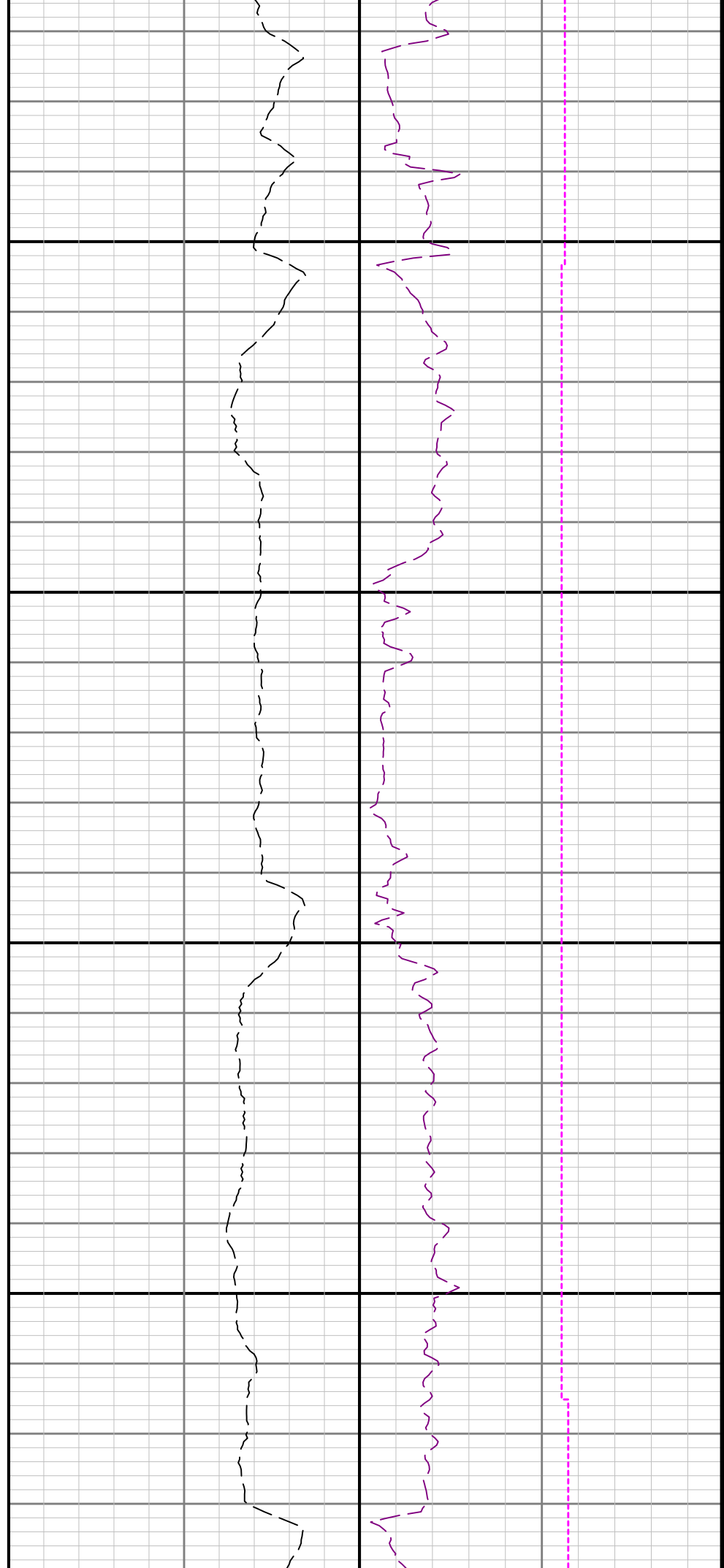






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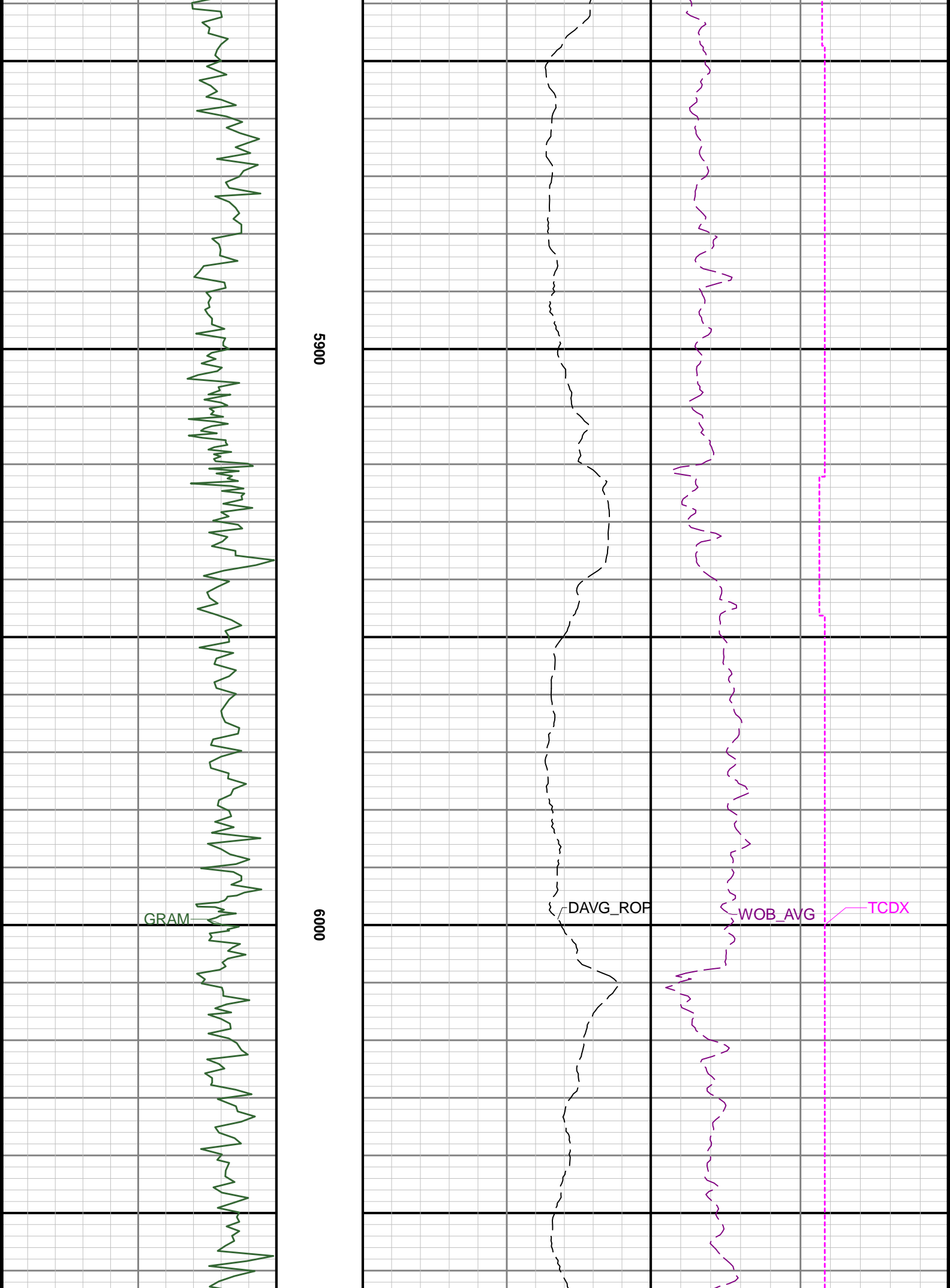
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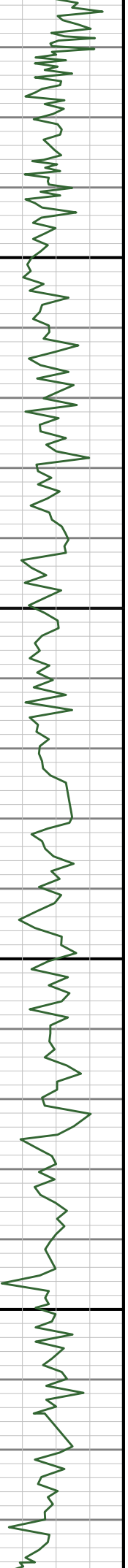
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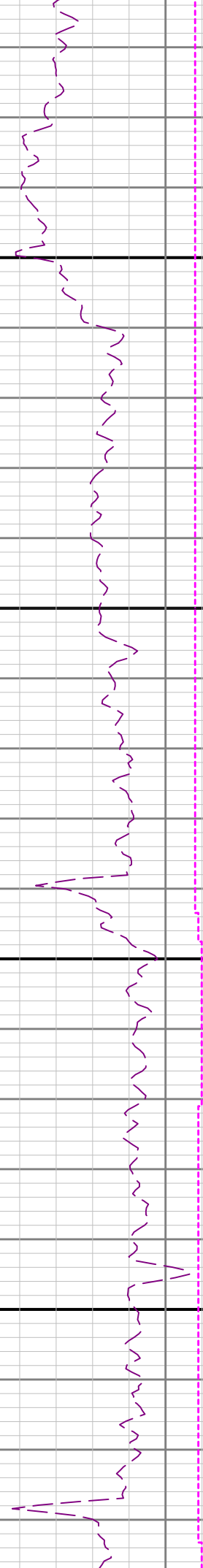
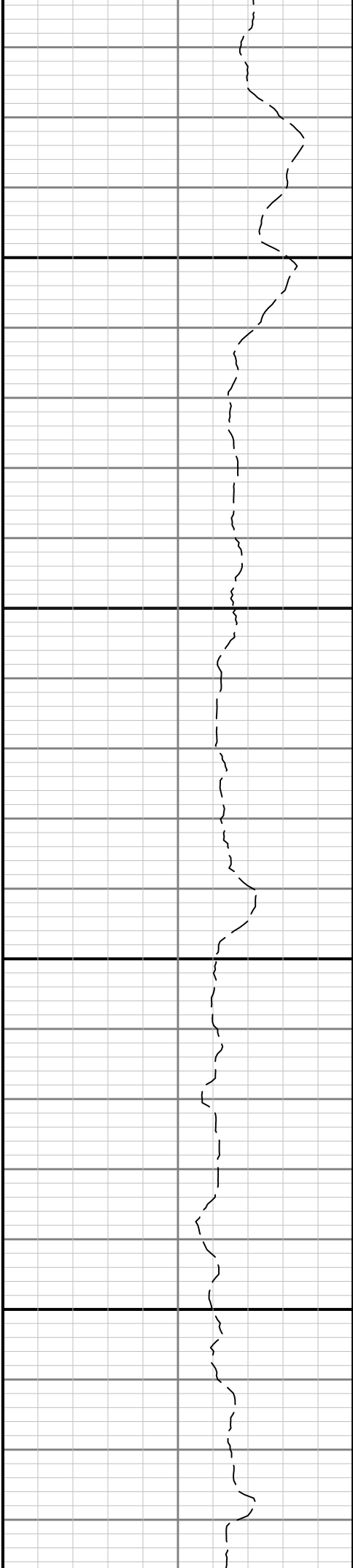
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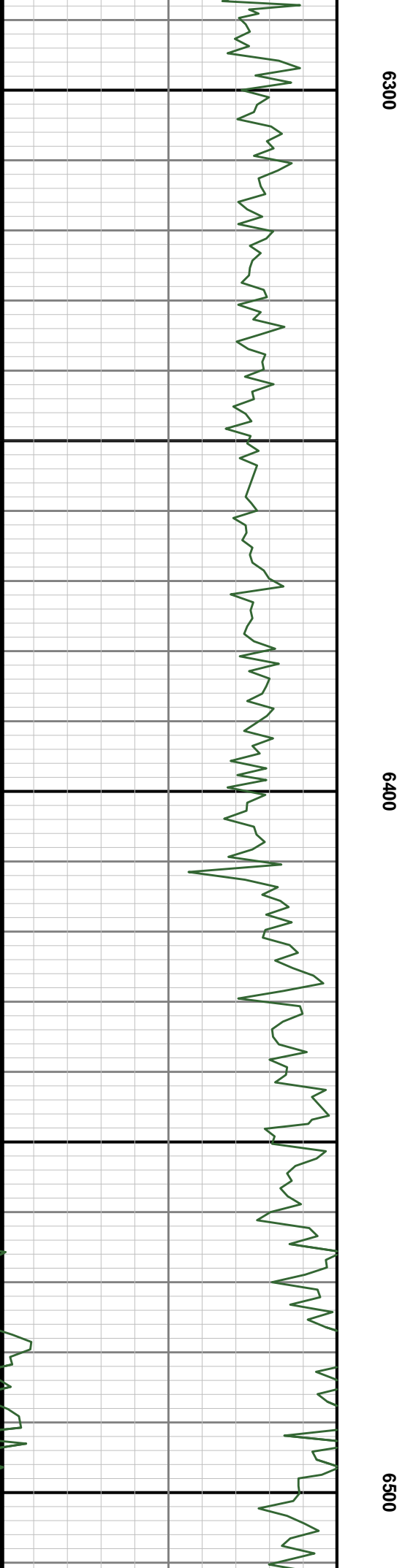
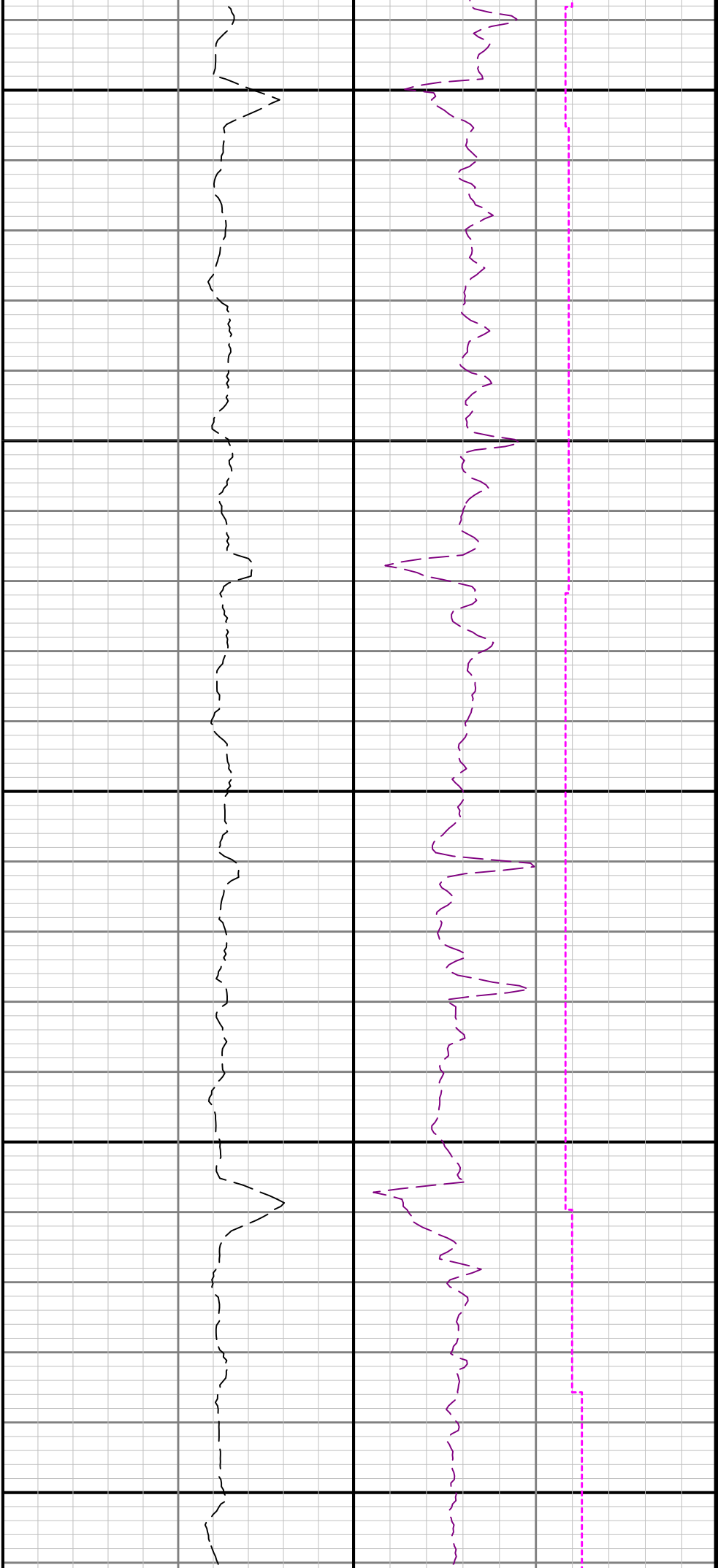


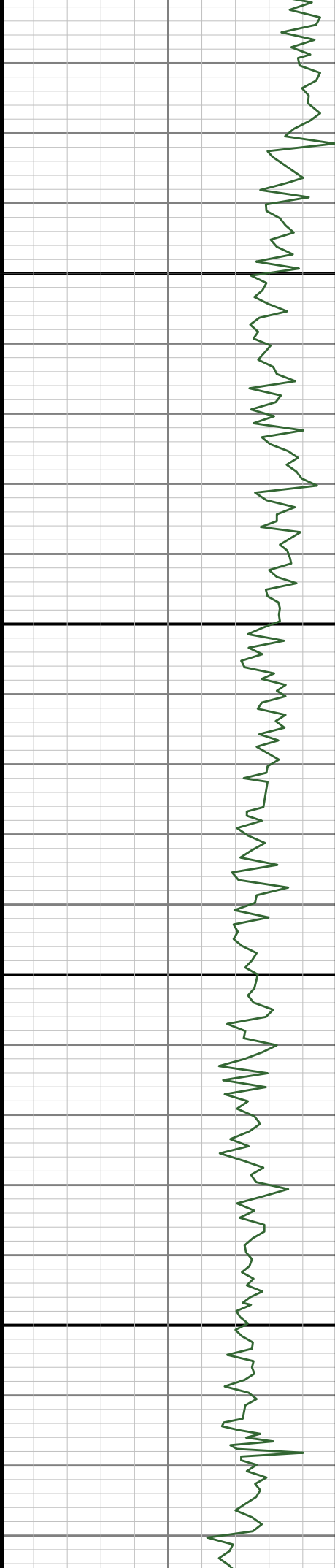


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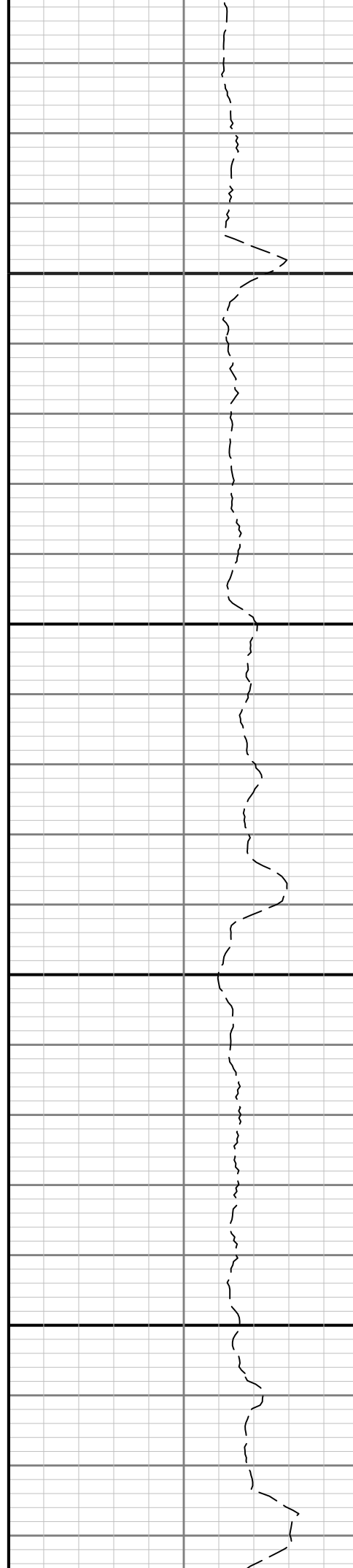


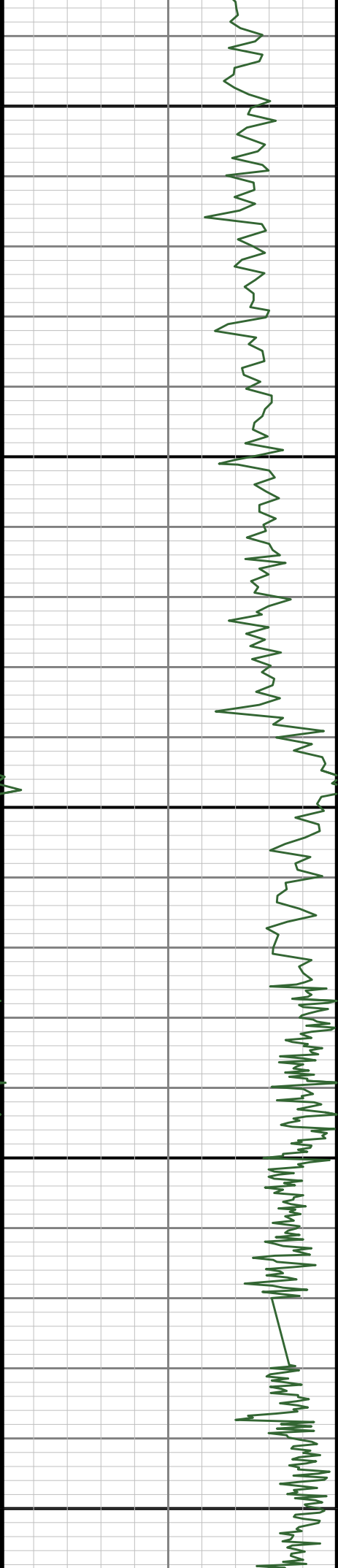




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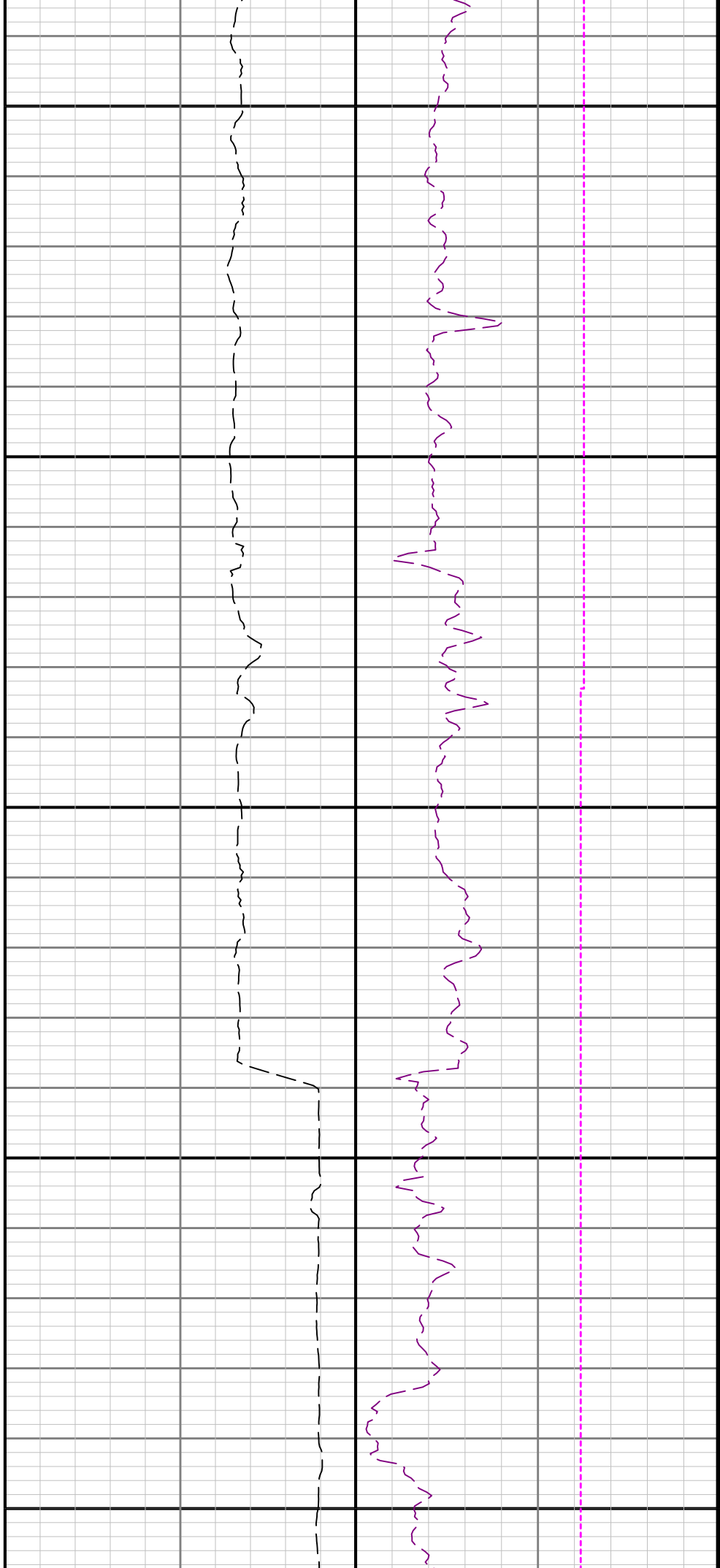
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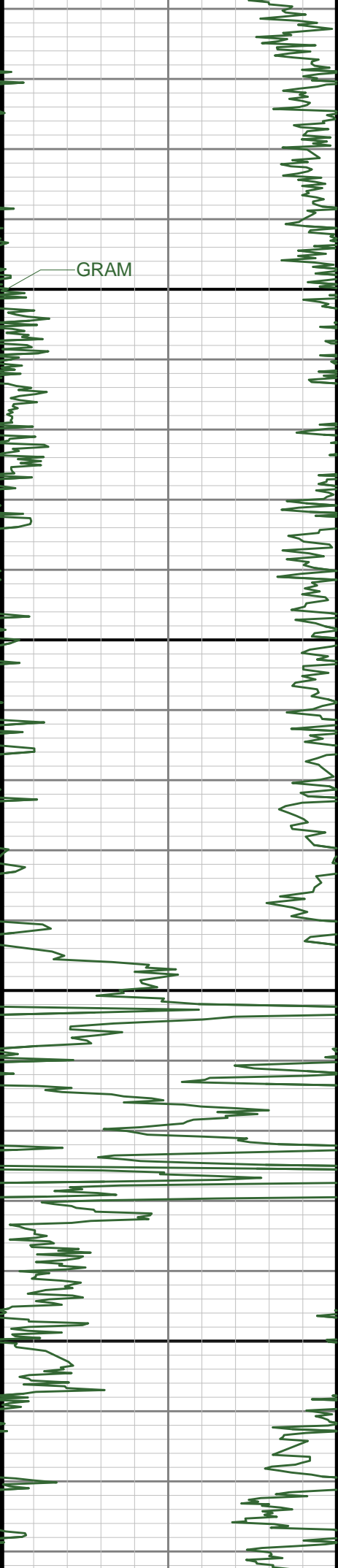




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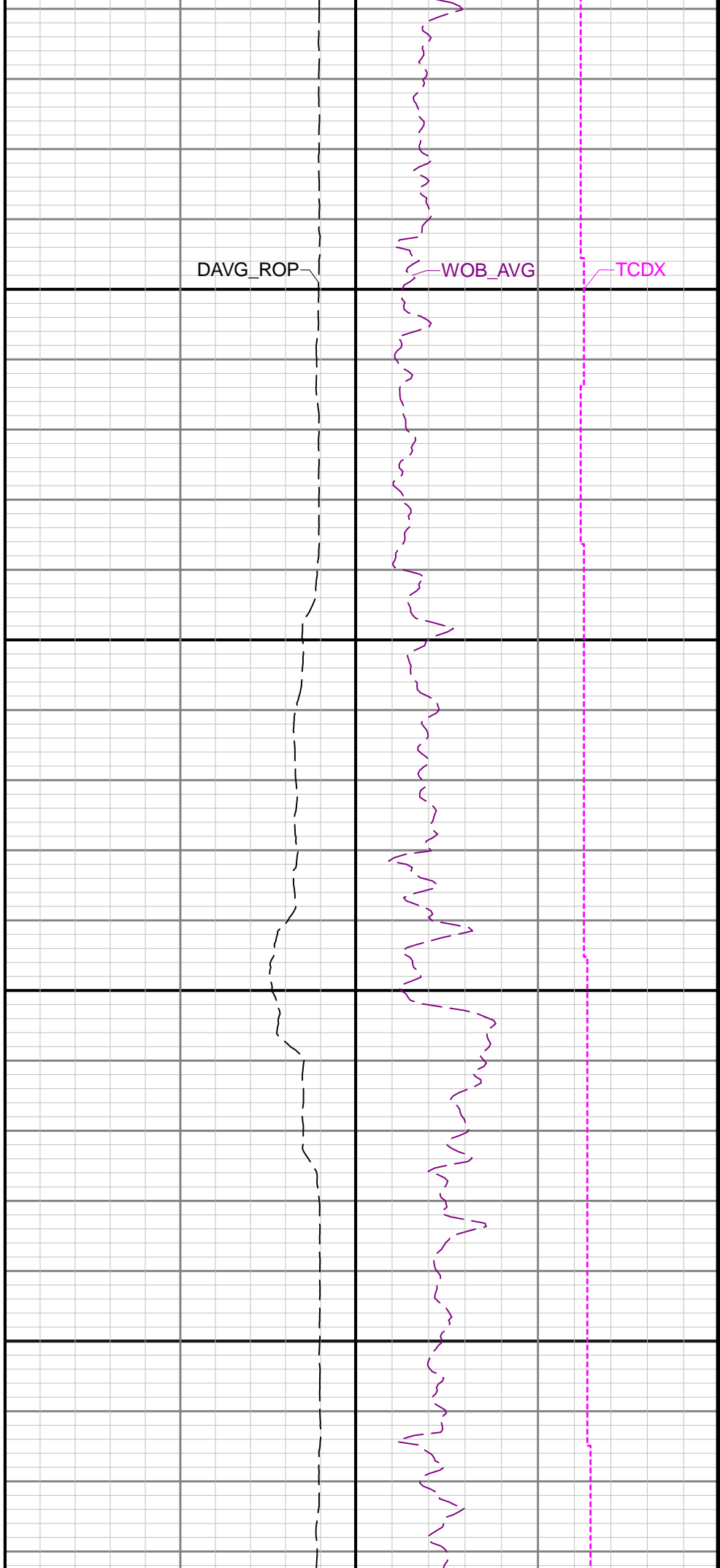
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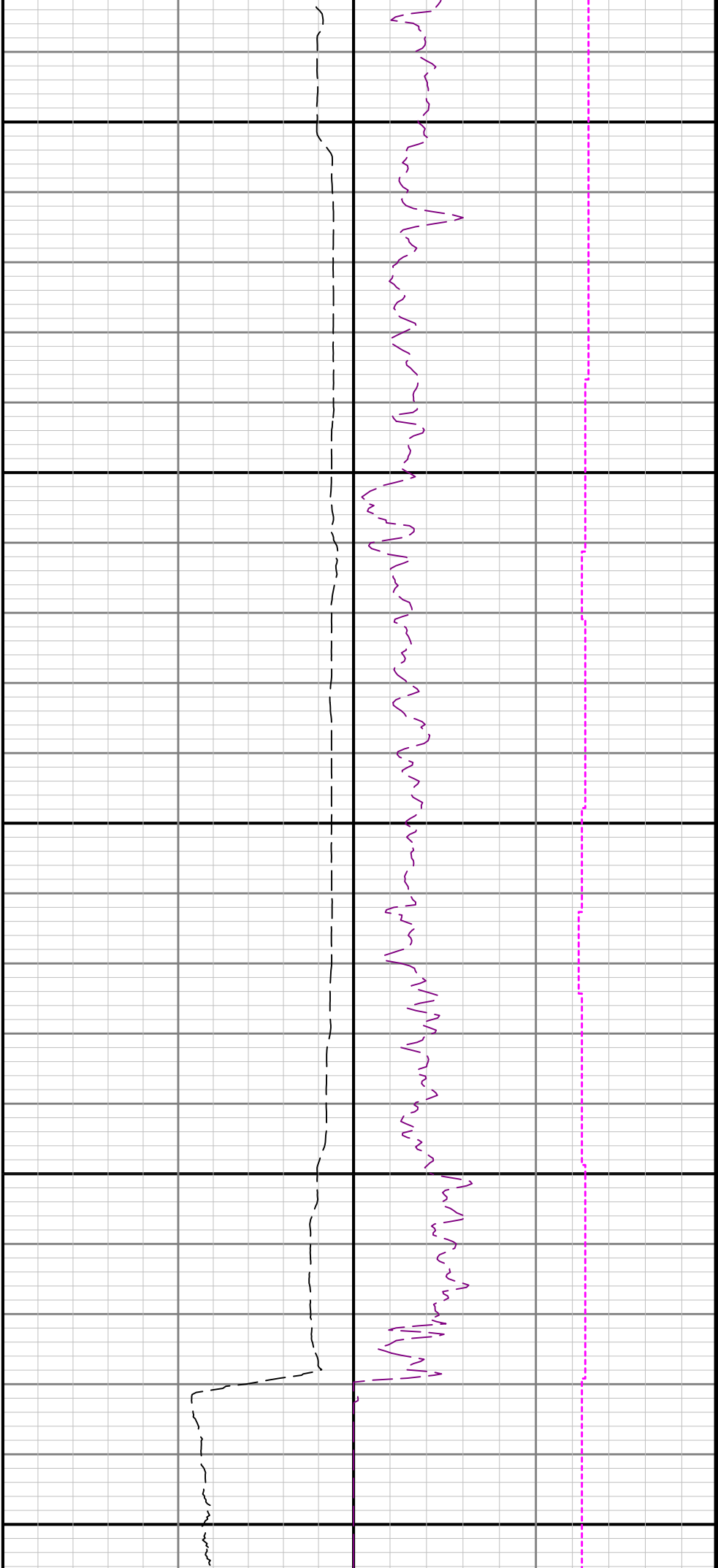




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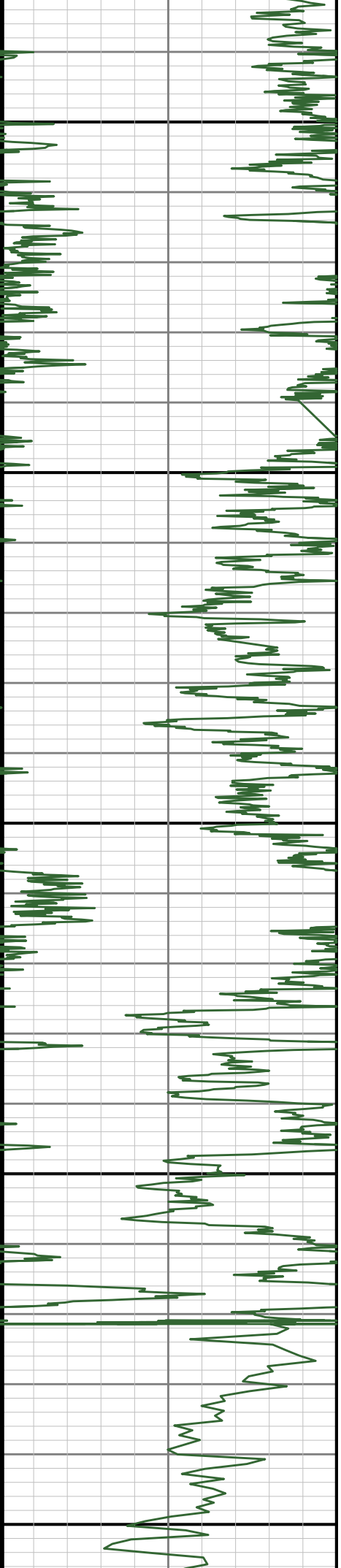


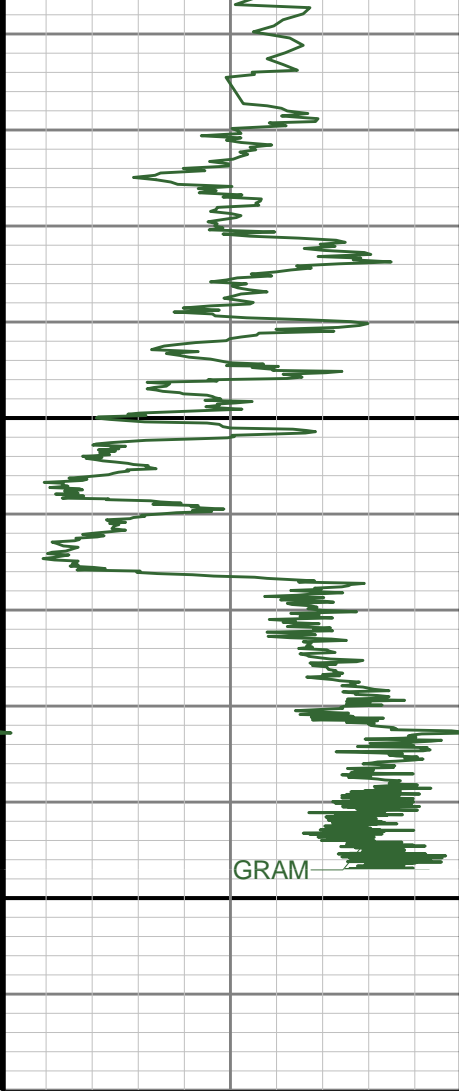


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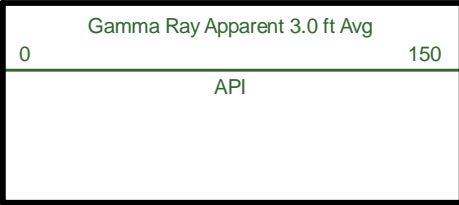
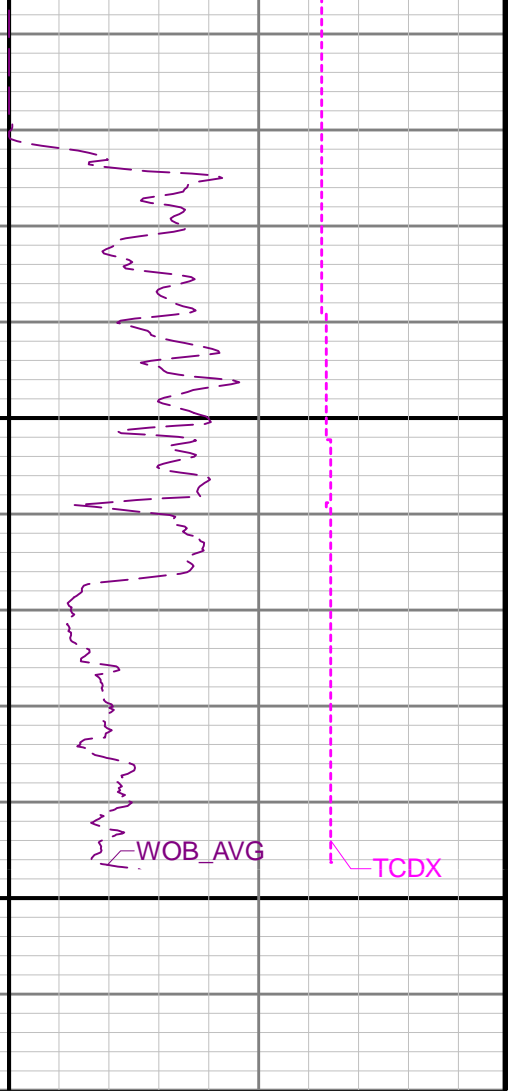
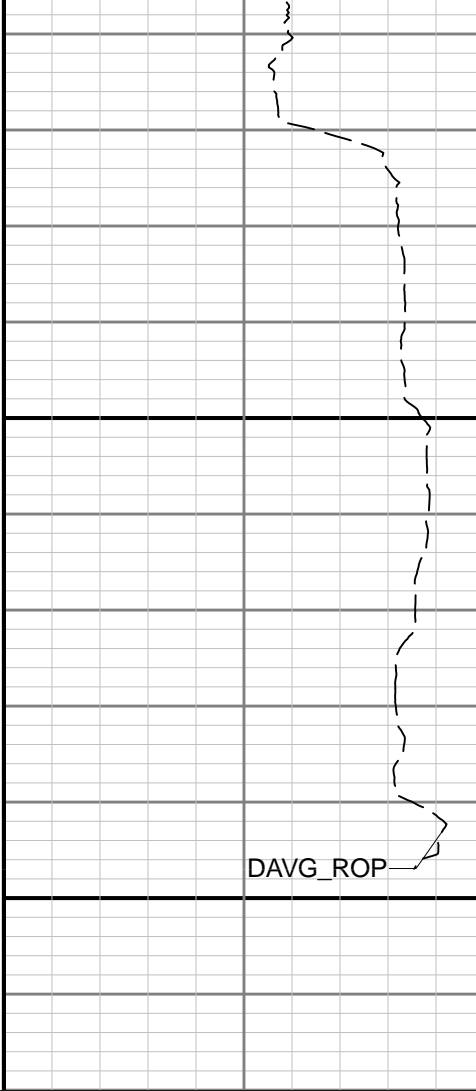
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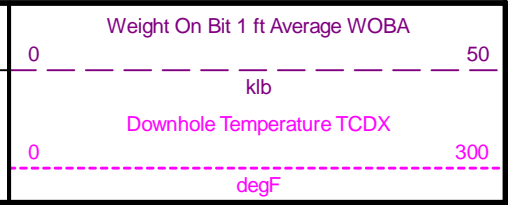
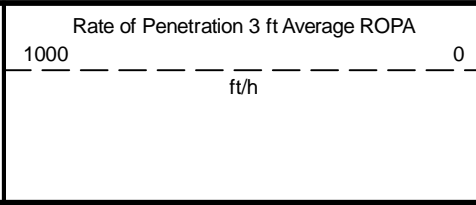




7500



TVD 1:240 feet



Directional Survey Summary

| | | | |
|---------------------------------|-------------------|--|--------------------|
| Latitude: | 40° 01' 48.612" N | Longitude: | 104° 39' 19.476" W |
| North Reference: | True | Drill Depth Zero: | Rig Floor |
| Vertical Datum is: | Mean Sea Level | Vertical Datum to DDZ: (ft) | 5118.00 |
| Vertical Section North: (ft) | 0.00 | Vertical Section East: (ft) | 0.00 |
| Vertical Section Azimuth: (deg) | 359.11 | Magnetic Declination: (deg) | 7.96 |
| Grid Convergence: (deg) | N/A | TVD Calculation Method: | Minimum Curvature |
| Total Correction: (deg) | 7.96 | Local Magnetic Field: (nT) | 51760 |
| Magnetic Correction: | Off | Local Gravity Field: (m/s ²) | 9.801 |
| Local Magnetic Dip Angle: (deg) | 66.28 | | |

| Tie-In / Projection | Measured Depth (ft) | Inclination (deg) | Azimuth (deg) | Temperature (degF) | North (ft) | East (ft) | True Vertical Depth (ft) | TVD Subsea (ft) | Vertical Section (ft) | Course Length (ft) | Dog Leg Severity (deg/100ft) | Build Rate (deg/100ft) | Turn Rate (deg/100ft) |
|---------------------|---------------------|-------------------|---------------|--------------------|------------|-----------|--------------------------|-----------------|-----------------------|--------------------|------------------------------|------------------------|-----------------------|
| Tie-In | 0.00 | 0.00 | 0.00 | N/A | 0.00 | 0.00 | 0.00 | -5118.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 23.00 | 0.00 | 157.56 | N/A | 0.00 | 0.00 | 23.00 | -5095.00 | 0.00 | 23.00 | 0.00 | 0.00 | 685.04 |
| | 137.00 | 0.51 | 157.56 | 98.7 | -0.47 | 0.19 | 137.00 | -4981.00 | -0.47 | 114.00 | 0.45 | 0.45 | -0.00 |
| | 227.00 | 0.74 | 154.34 | 98.7 | -1.36 | 0.60 | 226.99 | -4891.01 | -1.37 | 90.00 | 0.26 | 0.26 | -3.58 |
| | 318.00 | 0.74 | 167.47 | 271.7 | -2.47 | 0.98 | 317.99 | -4800.01 | -2.48 | 91.00 | 0.19 | 0.00 | 14.43 |
| | 407.00 | 0.50 | 127.79 | 98.7 | -3.27 | 1.41 | 406.98 | -4711.02 | -3.29 | 89.00 | 0.54 | -0.27 | -44.58 |
| | 497.00 | 1.42 | 208.77 | 104.1 | -4.48 | 1.19 | 496.97 | -4621.03 | -4.50 | 90.00 | 1.59 | 1.02 | 89.98 |
| | 587.00 | 3.21 | 218.07 | 104.1 | -7.45 | -0.91 | 586.89 | -4531.11 | -7.43 | 90.00 | 2.03 | 1.99 | 10.33 |
| | 676.00 | 4.61 | 215.74 | 104.1 | -12.31 | -4.53 | 675.68 | -4442.32 | -12.24 | 89.00 | 1.58 | 1.57 | -2.62 |
| | 765.00 | 4.44 | 217.32 | 104.1 | -17.95 | -8.71 | 764.41 | -4353.59 | -17.82 | 89.00 | 0.24 | -0.19 | 1.78 |
| | 855.00 | 4.01 | 213.76 | 106.8 | -23.34 | -12.57 | 854.16 | -4263.84 | -23.14 | 90.00 | 0.56 | -0.48 | -3.96 |
| | 944.00 | 4.61 | 210.80 | 52.7 | -29.00 | -16.13 | 942.91 | -4175.09 | -28.74 | 89.00 | 0.72 | 0.67 | -3.33 |
| | 1034.00 | 4.72 | 211.49 | 106.8 | -35.26 | -19.92 | 1032.61 | -4085.39 | -34.95 | 90.00 | 0.14 | 0.12 | 0.77 |
| | 1124.00 | 4.52 | 213.11 | 109.5 | -41.39 | -23.79 | 1122.32 | -3995.68 | -41.02 | 90.00 | 0.27 | -0.22 | 1.80 |
| | 1214.00 | 3.85 | 212.60 | 109.5 | -46.91 | -27.35 | 1212.08 | -3905.92 | -46.48 | 90.00 | 0.75 | -0.74 | -0.57 |

| | | | | | | | | | | | | | |
|--|---------|-------|--------|-------|---------|---------|---------|----------|---------|-------|-------|-------|--------|
| | 1303.00 | 3.54 | 210.74 | 109.5 | -51.79 | -30.37 | 1300.89 | -3817.11 | -51.31 | 89.00 | 0.37 | -0.35 | -2.09 |
| | 1393.00 | 3.25 | 214.55 | 109.5 | -56.28 | -33.23 | 1390.74 | -3727.26 | -55.75 | 90.00 | 0.41 | -0.32 | 4.23 |
| | 1483.00 | 3.28 | 214.04 | 166.2 | -60.51 | -36.12 | 1480.59 | -3637.41 | -59.94 | 90.00 | 0.05 | 0.03 | -0.57 |
| | 1520.00 | 3.47 | 216.55 | 109.5 | -62.29 | -37.38 | 1517.53 | -3600.47 | -61.70 | 37.00 | 0.65 | 0.51 | 6.78 |
| | 1611.00 | 3.10 | 211.84 | 98.7 | -66.59 | -40.32 | 1608.38 | -3509.62 | -65.96 | 91.00 | 0.50 | -0.41 | -5.18 |
| | 1701.00 | 3.10 | 208.79 | 101.4 | -70.79 | -42.78 | 1698.24 | -3419.76 | -70.12 | 90.00 | 0.18 | -0.00 | -3.39 |
| | 1790.00 | 3.05 | 211.72 | 104.1 | -74.91 | -45.18 | 1787.12 | -3330.88 | -74.20 | 89.00 | 0.19 | -0.06 | 3.29 |
| | 1880.00 | 3.07 | 210.60 | 106.8 | -79.02 | -47.67 | 1876.99 | -3241.01 | -78.27 | 90.00 | 0.07 | 0.02 | -1.24 |
| | 1970.00 | 3.06 | 210.85 | 109.5 | -83.16 | -50.12 | 1966.86 | -3151.14 | -82.37 | 90.00 | 0.02 | -0.01 | 0.28 |
| | 2060.00 | 3.07 | 214.79 | 109.5 | -87.20 | -52.73 | 2056.73 | -3061.27 | -86.37 | 90.00 | 0.23 | 0.01 | 4.38 |
| | 2149.00 | 3.03 | 215.20 | 112.2 | -91.08 | -55.45 | 2145.60 | -2972.40 | -90.21 | 89.00 | 0.05 | -0.04 | 0.46 |
| | 2239.00 | 3.04 | 215.63 | 114.9 | -94.96 | -58.21 | 2235.48 | -2882.52 | -94.05 | 90.00 | 0.03 | 0.01 | 0.48 |
| | 2328.00 | 2.93 | 214.38 | 117.6 | -98.76 | -60.87 | 2324.36 | -2793.64 | -97.80 | 89.00 | 0.14 | -0.12 | -1.40 |
| | 2418.00 | 2.85 | 214.16 | 117.6 | -102.51 | -63.42 | 2414.24 | -2703.76 | -101.51 | 90.00 | 0.09 | -0.09 | -0.24 |
| | 2508.00 | 2.71 | 217.03 | 123.0 | -106.06 | -65.96 | 2504.14 | -2613.86 | -105.02 | 90.00 | 0.22 | -0.16 | 3.19 |
| | 2598.00 | 2.73 | 215.97 | 123.0 | -109.49 | -68.50 | 2594.04 | -2523.96 | -108.42 | 90.00 | 0.06 | 0.02 | -1.18 |
| | 2688.00 | 2.92 | 214.47 | 128.4 | -113.12 | -71.06 | 2683.93 | -2434.07 | -112.00 | 90.00 | 0.23 | 0.21 | -1.67 |
| | 2777.00 | 2.84 | 215.82 | 128.4 | -116.77 | -73.63 | 2772.81 | -2345.19 | -115.62 | 89.00 | 0.12 | -0.09 | 1.52 |
| | 2867.00 | 2.92 | 218.22 | 128.4 | -120.38 | -76.35 | 2862.70 | -2255.30 | -119.18 | 90.00 | 0.16 | 0.09 | 2.67 |
| | 2957.00 | 2.91 | 215.47 | 131.1 | -124.04 | -79.10 | 2952.58 | -2165.42 | -122.80 | 90.00 | 0.16 | -0.01 | -3.06 |
| | 3046.00 | 2.80 | 216.97 | 82.4 | -127.62 | -81.72 | 3041.47 | -2076.53 | -126.34 | 89.00 | 0.15 | -0.12 | 1.69 |
| | 3135.00 | 2.81 | 216.38 | 55.4 | -131.11 | -84.32 | 3130.37 | -1987.63 | -129.79 | 89.00 | 0.03 | 0.01 | -0.66 |
| | 3225.00 | 2.86 | 215.12 | 136.5 | -134.73 | -86.92 | 3220.26 | -1897.74 | -133.36 | 90.00 | 0.09 | 0.06 | -1.40 |
| | 3314.00 | 2.94 | 216.52 | 136.5 | -138.38 | -89.55 | 3309.14 | -1808.86 | -136.97 | 89.00 | 0.12 | 0.09 | 1.57 |
| | 3404.00 | 2.78 | 216.29 | 136.5 | -141.99 | -92.22 | 3399.03 | -1718.97 | -140.54 | 90.00 | 0.18 | -0.18 | -0.26 |
| | 3493.00 | 2.93 | 216.23 | 139.2 | -145.57 | -94.84 | 3487.92 | -1630.08 | -144.08 | 89.00 | 0.17 | 0.17 | -0.07 |
| | 3583.00 | 2.84 | 217.96 | 141.9 | -149.18 | -97.57 | 3577.81 | -1540.19 | -147.65 | 90.00 | 0.14 | -0.10 | 1.92 |
| | 3672.00 | 2.92 | 216.88 | 144.6 | -152.73 | -100.29 | 3666.69 | -1451.31 | -151.16 | 89.00 | 0.11 | 0.09 | -1.21 |
| | 3761.00 | 2.79 | 214.17 | 144.6 | -156.34 | -102.86 | 3755.58 | -1362.42 | -154.72 | 89.00 | 0.21 | -0.15 | -3.04 |
| | 3851.00 | 2.90 | 222.44 | 144.6 | -159.83 | -105.63 | 3845.47 | -1272.53 | -158.17 | 90.00 | 0.47 | 0.12 | 9.19 |
| | 3941.00 | 2.69 | 216.88 | 147.3 | -163.20 | -108.43 | 3935.37 | -1182.63 | -161.49 | 90.00 | 0.38 | -0.23 | -6.18 |
| | 4030.00 | 2.82 | 217.49 | 147.3 | -166.61 | -111.02 | 4024.26 | -1093.74 | -164.86 | 89.00 | 0.15 | 0.15 | 0.69 |
| | 4120.00 | 2.89 | 217.27 | 147.3 | -170.17 | -113.74 | 4114.15 | -1003.85 | -168.38 | 90.00 | 0.08 | 0.08 | -0.24 |
| | 4209.00 | 2.90 | 215.62 | 150.0 | -173.78 | -116.41 | 4203.04 | -914.96 | -171.96 | 89.00 | 0.09 | 0.01 | -1.85 |
| | 4298.00 | 3.17 | 217.34 | 150.0 | -177.57 | -119.22 | 4291.91 | -826.09 | -175.70 | 89.00 | 0.32 | 0.30 | 1.93 |
| | 4388.00 | 2.94 | 217.26 | 150.0 | -181.39 | -122.12 | 4381.78 | -736.22 | -179.47 | 90.00 | 0.26 | -0.26 | -0.09 |
| | 4477.00 | 2.90 | 213.97 | 147.3 | -185.07 | -124.76 | 4470.67 | -647.33 | -183.11 | 89.00 | 0.19 | -0.04 | -3.70 |
| | 4566.00 | 2.90 | 215.06 | 147.3 | -188.78 | -127.31 | 4559.55 | -558.45 | -186.78 | 89.00 | 0.06 | 0.00 | 1.22 |
| | 4656.00 | 2.88 | 215.17 | 147.3 | -192.49 | -129.92 | 4649.44 | -468.56 | -190.45 | 90.00 | 0.02 | -0.02 | 0.12 |
| | 4746.00 | 2.86 | 213.42 | 150.0 | -196.21 | -132.46 | 4739.33 | -378.67 | -194.13 | 90.00 | 0.10 | -0.02 | -1.94 |
| | 4836.00 | 2.99 | 214.74 | 150.0 | -200.02 | -135.04 | 4829.21 | -288.79 | -197.90 | 90.00 | 0.16 | 0.14 | 1.47 |
| | 4925.00 | 3.14 | 215.76 | 152.7 | -203.90 | -137.78 | 4918.08 | -199.92 | -201.74 | 89.00 | 0.18 | 0.17 | 1.15 |
| | 5015.00 | 3.07 | 215.12 | 152.7 | -207.87 | -140.61 | 5007.95 | -110.05 | -205.66 | 90.00 | 0.09 | -0.08 | -0.71 |
| | 5105.00 | 3.03 | 214.30 | 158.1 | -211.81 | -143.34 | 5097.82 | -20.18 | -209.56 | 90.00 | 0.07 | -0.04 | -0.91 |
| | 5194.00 | 3.38 | 216.14 | 160.8 | -215.87 | -146.21 | 5186.68 | 68.68 | -213.57 | 89.00 | 0.41 | 0.39 | 2.07 |
| | 5284.00 | 3.67 | 214.03 | 160.8 | -220.40 | -149.39 | 5276.51 | 158.51 | -218.05 | 90.00 | 0.35 | 0.32 | -2.34 |
| | 5373.00 | 3.33 | 214.95 | 163.5 | -224.88 | -152.46 | 5365.35 | 247.35 | -222.49 | 89.00 | 0.39 | -0.38 | 1.03 |
| | 5463.00 | 3.33 | 217.12 | 166.2 | -229.11 | -155.54 | 5455.20 | 337.20 | -226.66 | 90.00 | 0.14 | -0.00 | 2.41 |
| | 5552.00 | 3.68 | 204.60 | 168.9 | -233.77 | -158.29 | 5544.03 | 426.03 | -231.28 | 89.00 | 0.94 | 0.39 | -14.07 |
| | 5641.00 | 3.15 | 213.22 | 166.2 | -238.41 | -160.81 | 5632.87 | 514.87 | -235.88 | 89.00 | 0.83 | -0.60 | 9.69 |
| | 5730.00 | 2.56 | 220.60 | 168.9 | -241.96 | -163.45 | 5721.76 | 603.76 | -239.40 | 89.00 | 0.78 | -0.66 | 8.29 |
| | 5819.00 | 2.98 | 214.51 | 171.6 | -245.38 | -166.05 | 5810.66 | 692.66 | -242.77 | 89.00 | 0.58 | 0.47 | -6.84 |
| | 5909.00 | 3.12 | 214.70 | 168.9 | -249.32 | -168.77 | 5900.53 | 782.53 | -246.67 | 90.00 | 0.16 | 0.16 | 0.21 |
| | 5998.00 | 3.35 | 218.92 | 174.3 | -253.33 | -171.78 | 5989.39 | 871.39 | -250.64 | 89.00 | 0.37 | 0.26 | 4.74 |
| | 6088.00 | 3.44 | 217.31 | 174.3 | -257.53 | -175.07 | 6079.23 | 961.23 | -254.78 | 90.00 | 0.15 | 0.10 | -1.79 |
| | 6177.00 | 2.98 | 216.25 | 177.0 | -261.52 | -178.06 | 6168.09 | 1050.09 | -258.72 | 89.00 | 0.52 | -0.52 | -1.19 |
| | 6266.00 | 3.32 | 215.69 | 179.7 | -265.48 | -180.93 | 6256.96 | 1138.96 | -262.63 | 89.00 | 0.38 | 0.38 | -0.63 |
| | 6356.00 | 2.98 | 216.22 | 174.3 | -269.48 | -183.83 | 6346.82 | 1228.82 | -266.59 | 90.00 | 0.38 | -0.38 | 0.59 |
| | 6445.00 | 2.80 | 207.56 | 179.7 | -273.27 | -186.21 | 6435.71 | 1317.71 | -270.35 | 89.00 | 0.53 | -0.20 | -9.73 |
| | 6535.00 | 2.69 | 212.69 | 185.2 | -277.00 | -188.36 | 6525.60 | 1407.60 | -274.04 | 90.00 | 0.30 | -0.12 | 5.70 |
| | 6624.00 | 2.77 | 207.81 | 185.2 | -280.66 | -190.50 | 6614.50 | 1496.50 | -277.67 | 89.00 | 0.28 | 0.09 | -5.48 |
| | 6713.00 | 2.78 | 202.71 | 187.9 | -284.55 | -192.33 | 6703.40 | 1585.40 | -281.53 | 89.00 | 0.28 | 0.01 | -5.73 |
| | 6803.00 | 2.69 | 207.41 | 187.9 | -288.44 | -194.15 | 6793.30 | 1675.30 | -285.39 | 90.00 | 0.27 | -0.10 | 5.22 |
| | 6892.00 | 2.76 | 210.65 | 185.2 | -292.14 | -196.20 | 6882.20 | 1764.20 | -289.06 | 89.00 | 0.19 | 0.08 | 3.64 |
| | 6982.00 | 5.19 | 351.54 | 185.2 | -289.97 | -197.91 | 6972.09 | 1854.09 | -286.86 | 90.00 | 8.37 | 2.70 | 156.54 |
| | 7071.00 | 15.74 | 357.97 | 187.9 | -273.88 | -198.93 | 7059.49 | 1941.49 | -270.76 | 89.00 | 11.91 | 11.85 | 7.22 |
| | 7160.00 | 23.16 | 1.58 | 193.3 | -244.28 | -198.87 | 7143.35 | 2025.35 | -241.16 | 89.00 | 8.44 | 8.34 | 4.06 |
| | 7250.00 | 30.71 | 12.04 | 190.6 | -204.03 | -193.58 | 7223.58 | 2105.58 | -201.00 | 90.00 | 9.88 | 8.39 | 11.62 |
| | 7339.00 | 40.37 | 7.38 | 185.2 | -153.09 | -185.12 | 7295.92 | 2177.92 | -150.20 | 89.00 | 11.27 | 10.85 | -5.24 |
| | 7428.00 | 50.94 | 359.10 | 190.6 | -89.72 | -181.95 | 7358.10 | 2240.10 | -86.88 | 89.00 | 13.59 | 11.88 | -9.30 |
| | 7518.00 | 58.78 | 358.02 | 190.6 | -16.21 | -183.83 | 7409.86 | 2291.86 | -13.35 | 90.00 | 8.77 | 8.71 | -1.20 |
| | 7608.00 | 67.32 | 358.59 | 190.6 | 63.91 | -186.18 | 7450.61 | 2332.61 | 66.79 | 90.00 | 9.51 | 9.49 | 0.63 |
| | 7697.00 | 75.95 | 358.93 | 193.3 | 148.28 | -188.00 | 7478.63 | 2360.63 | 151.18 | 89.00 | 9.70 | 9.70 | 0.38 |
| | 7788.00 | 84.45 | 359.42 | 193.3 | 236.76 | -189.29 | 7494.10 | 2376.10 | 240.77 | 91.00 | 9.36 | 9.34 | 0.54 |

| | | | | | | | | | | | | | |
|--|----------|-------|--------|-------|---------|---------|---------|---------|---------|-------|------|-------|-------|
| | 7877.00 | 91.03 | 359.77 | 198.0 | 526.74 | -189.92 | 7497.13 | 2379.13 | 529.66 | 89.00 | 0.08 | 0.07 | 0.39 |
| | 7967.00 | 91.35 | 359.73 | 198.7 | 416.71 | -190.31 | 7494.81 | 2376.81 | 419.62 | 90.00 | 0.31 | -0.31 | -0.04 |
| | 8057.00 | 91.42 | 359.69 | 201.4 | 506.69 | -190.76 | 7492.63 | 2374.63 | 509.59 | 90.00 | 0.09 | 0.08 | -0.04 |
| | 8146.00 | 91.32 | 359.79 | 201.4 | 595.66 | -191.17 | 7490.50 | 2372.50 | 598.56 | 89.00 | 0.16 | -0.11 | 0.11 |
| | 8236.00 | 91.32 | 359.80 | 204.1 | 685.64 | -191.49 | 7488.43 | 2370.43 | 688.53 | 90.00 | 0.01 | -0.00 | 0.01 |
| | 8326.00 | 91.45 | 359.88 | 204.1 | 775.61 | -191.74 | 7486.25 | 2368.25 | 778.49 | 90.00 | 0.17 | 0.14 | 0.09 |
| | 8416.00 | 90.31 | 359.34 | 204.1 | 865.59 | -192.35 | 7484.87 | 2366.87 | 868.48 | 90.00 | 1.40 | -1.27 | -0.60 |
| | 8506.00 | 90.43 | 359.57 | 206.8 | 955.59 | -193.21 | 7484.29 | 2366.29 | 958.47 | 90.00 | 0.29 | 0.13 | 0.26 |
| | 8596.00 | 90.12 | 359.71 | 206.8 | 1045.58 | -193.77 | 7483.86 | 2365.86 | 1048.47 | 90.00 | 0.38 | -0.34 | 0.16 |
| | 8685.00 | 88.98 | 359.75 | 204.1 | 1134.58 | -194.19 | 7484.56 | 2366.56 | 1137.46 | 89.00 | 1.28 | -1.28 | 0.04 |
| | 8775.00 | 88.83 | 359.77 | 206.8 | 1224.56 | -194.57 | 7486.28 | 2368.28 | 1227.44 | 90.00 | 0.17 | -0.17 | 0.02 |
| | 8865.00 | 88.83 | 359.36 | 198.7 | 1314.54 | -195.25 | 7488.11 | 2370.11 | 1317.42 | 90.00 | 0.46 | -0.00 | -0.46 |
| | 8954.00 | 90.52 | 359.87 | 206.8 | 1403.53 | -195.85 | 7488.62 | 2370.62 | 1406.41 | 89.00 | 1.98 | 1.90 | 0.57 |
| | 9044.00 | 90.98 | 359.92 | 209.5 | 1493.53 | -196.02 | 7487.44 | 2369.44 | 1496.39 | 90.00 | 0.51 | 0.51 | 0.06 |
| | 9134.00 | 91.02 | 359.91 | 212.2 | 1583.51 | -196.15 | 7485.87 | 2367.87 | 1586.37 | 90.00 | 0.05 | 0.04 | -0.01 |
| | 9223.00 | 90.86 | 359.78 | 214.9 | 1672.50 | -196.39 | 7484.41 | 2366.41 | 1675.35 | 89.00 | 0.23 | -0.18 | -0.15 |
| | 9313.00 | 89.78 | 359.99 | 214.9 | 1762.50 | -196.57 | 7483.91 | 2365.91 | 1765.34 | 90.00 | 1.22 | -1.20 | 0.23 |
| | 9402.00 | 89.97 | 359.74 | 217.6 | 1851.50 | -196.78 | 7484.10 | 2366.10 | 1854.33 | 89.00 | 0.35 | 0.21 | -0.28 |
| | 9492.00 | 90.09 | 359.16 | 220.3 | 1941.49 | -197.65 | 7484.06 | 2366.06 | 1944.33 | 90.00 | 0.66 | 0.13 | -0.64 |
| | 9582.00 | 91.05 | 359.79 | 220.3 | 2031.48 | -198.47 | 7483.16 | 2365.16 | 2034.32 | 90.00 | 1.28 | 1.07 | 0.70 |
| | 9671.00 | 91.17 | 359.54 | 223.0 | 2120.46 | -198.99 | 7481.44 | 2363.44 | 2123.30 | 89.00 | 0.31 | 0.13 | -0.28 |
| | 9761.00 | 91.17 | 359.69 | 225.7 | 2210.44 | -199.60 | 7479.60 | 2361.60 | 2213.28 | 90.00 | 0.17 | 0.00 | 0.17 |
| | 9851.00 | 91.11 | 359.69 | 225.7 | 2300.42 | -200.08 | 7477.81 | 2359.81 | 2303.25 | 90.00 | 0.07 | -0.07 | 0.00 |
| | 9940.00 | 90.18 | 359.65 | 225.7 | 2389.42 | -200.59 | 7476.81 | 2358.81 | 2392.24 | 89.00 | 1.05 | -1.04 | -0.04 |
| | 10030.00 | 90.00 | 359.50 | 225.7 | 2479.41 | -201.26 | 7476.66 | 2358.66 | 2482.24 | 90.00 | 0.26 | -0.20 | -0.17 |
| | 10119.00 | 89.78 | 359.48 | 228.4 | 2568.41 | -202.05 | 7476.84 | 2358.84 | 2571.24 | 89.00 | 0.25 | -0.25 | -0.02 |
| | 10209.00 | 89.97 | 359.97 | 231.1 | 2658.41 | -202.49 | 7477.03 | 2359.03 | 2661.23 | 90.00 | 0.58 | 0.21 | 0.54 |
| | 10299.00 | 90.00 | 359.95 | 231.1 | 2748.41 | -202.55 | 7477.05 | 2359.05 | 2751.22 | 90.00 | 0.04 | 0.03 | -0.02 |
| | 10388.00 | 89.69 | 359.01 | 231.1 | 2837.40 | -203.36 | 7477.30 | 2359.30 | 2840.22 | 89.00 | 1.11 | -0.35 | -1.06 |
| | 10478.00 | 90.00 | 359.53 | 233.8 | 2927.39 | -204.50 | 7477.54 | 2359.54 | 2930.22 | 90.00 | 0.67 | 0.34 | 0.58 |
| | 10567.00 | 89.85 | 359.45 | 233.8 | 3016.39 | -205.30 | 7477.66 | 2359.66 | 3019.22 | 89.00 | 0.19 | -0.17 | -0.09 |
| | 10657.00 | 90.25 | 0.00 | 236.5 | 3106.39 | -205.73 | 7477.58 | 2359.58 | 3109.21 | 90.00 | 0.76 | 0.44 | 0.61 |
| | 10746.00 | 90.22 | 359.32 | 236.5 | 3195.39 | -206.26 | 7477.21 | 2359.21 | 3198.20 | 89.00 | 0.76 | -0.03 | -0.76 |
| | 10837.00 | 90.43 | 359.92 | 239.2 | 3286.38 | -206.86 | 7476.70 | 2358.70 | 3289.20 | 91.00 | 0.70 | 0.23 | 0.66 |
| | 10927.00 | 90.40 | 359.46 | 239.2 | 3376.38 | -207.35 | 7476.04 | 2358.04 | 3379.19 | 90.00 | 0.51 | -0.03 | -0.51 |
| | 11016.00 | 90.22 | 359.69 | 236.5 | 3465.37 | -208.01 | 7475.56 | 2357.56 | 3468.19 | 89.00 | 0.33 | -0.20 | 0.26 |
| | 11106.00 | 90.31 | 359.42 | 239.2 | 3555.37 | -208.71 | 7475.15 | 2357.15 | 3558.18 | 90.00 | 0.32 | 0.10 | -0.30 |
| | 11196.00 | 90.65 | 359.91 | 241.9 | 3645.37 | -209.23 | 7474.39 | 2356.39 | 3648.18 | 90.00 | 0.66 | 0.38 | 0.54 |
| | 11286.00 | 90.71 | 359.54 | 239.2 | 3735.36 | -209.66 | 7473.32 | 2355.32 | 3738.16 | 90.00 | 0.42 | 0.07 | -0.41 |
| | 11375.00 | 90.95 | 359.58 | 241.9 | 3824.35 | -210.35 | 7472.03 | 2354.03 | 3827.15 | 89.00 | 0.27 | 0.27 | 0.04 |
| | 11465.00 | 90.99 | 359.52 | 241.9 | 3914.33 | -211.05 | 7470.51 | 2352.51 | 3917.14 | 90.00 | 0.08 | 0.04 | -0.07 |
| | 11554.00 | 90.92 | 359.55 | 239.2 | 4003.32 | -211.78 | 7469.03 | 2351.03 | 4006.12 | 89.00 | 0.09 | -0.08 | 0.03 |
| | 11643.00 | 90.77 | 359.41 | 239.2 | 4092.30 | -212.58 | 7467.72 | 2349.72 | 4095.11 | 89.00 | 0.23 | -0.17 | -0.16 |
| | 11733.00 | 91.45 | 0.65 | 239.2 | 4182.28 | -212.54 | 7465.97 | 2347.97 | 4185.08 | 90.00 | 1.57 | 0.76 | 1.38 |
| | 11823.00 | 91.35 | 0.25 | 241.9 | 4272.25 | -211.83 | 7463.77 | 2345.77 | 4275.03 | 90.00 | 0.46 | -0.11 | -0.44 |
| | 11912.00 | 90.25 | 0.41 | 241.9 | 4361.24 | -211.32 | 7462.53 | 2344.53 | 4364.00 | 89.00 | 1.25 | -1.24 | 0.18 |
| | 12002.00 | 90.25 | 0.08 | 244.6 | 4451.24 | -210.93 | 7462.14 | 2344.14 | 4453.98 | 90.00 | 0.37 | 0.00 | -0.37 |
| | 12091.00 | 90.43 | 0.71 | 244.6 | 4540.24 | -210.32 | 7461.61 | 2343.61 | 4542.95 | 89.00 | 0.74 | 0.20 | 0.71 |
| | 12181.00 | 90.28 | 0.04 | 247.3 | 4630.23 | -209.73 | 7461.05 | 2343.05 | 4632.93 | 90.00 | 0.76 | -0.17 | -0.74 |
| | 12270.00 | 90.49 | 0.17 | 247.3 | 4719.23 | -209.57 | 7460.45 | 2342.45 | 4721.91 | 89.00 | 0.28 | 0.24 | 0.15 |
| | 12360.00 | 90.46 | 0.31 | 247.3 | 4809.22 | -209.19 | 7459.71 | 2341.71 | 4811.89 | 90.00 | 0.16 | -0.03 | 0.16 |
| | 12449.00 | 90.37 | 359.99 | 250.0 | 4898.22 | -208.96 | 7459.06 | 2341.06 | 4900.88 | 89.00 | 0.37 | -0.10 | -0.36 |
| | 12539.00 | 90.65 | 0.48 | 250.0 | 4988.22 | -208.59 | 7458.26 | 2340.26 | 4990.86 | 90.00 | 0.63 | 0.31 | 0.54 |
| | 12629.00 | 90.22 | 0.39 | 250.0 | 5078.21 | -207.90 | 7457.58 | 2339.58 | 5080.83 | 90.00 | 0.49 | -0.48 | -0.10 |
| | 12718.00 | 90.83 | 0.23 | 250.0 | 5167.21 | -207.42 | 7456.76 | 2338.76 | 5169.81 | 89.00 | 0.71 | 0.69 | -0.18 |
| | 12808.00 | 90.83 | 0.22 | 252.7 | 5257.20 | -207.07 | 7455.46 | 2337.46 | 5259.78 | 90.00 | 0.01 | 0.00 | -0.01 |
| | 12898.00 | 90.43 | 0.38 | 250.0 | 5347.19 | -206.60 | 7454.47 | 2336.47 | 5349.75 | 90.00 | 0.48 | -0.44 | 0.18 |
| | 12988.00 | 90.55 | 0.38 | 252.7 | 5437.18 | -206.00 | 7453.70 | 2335.70 | 5439.73 | 90.00 | 0.13 | 0.13 | 0.01 |
| | 13077.00 | 90.68 | 0.82 | 255.4 | 5526.17 | -205.07 | 7452.75 | 2334.75 | 5528.69 | 89.00 | 0.52 | 0.15 | 0.49 |
| | 13168.00 | 90.62 | 0.62 | 252.7 | 5617.16 | -203.93 | 7451.71 | 2333.71 | 5619.65 | 91.00 | 0.23 | -0.07 | -0.22 |
| | 13205.00 | 90.34 | 0.14 | 255.4 | 5654.16 | -203.68 | 7451.40 | 2333.40 | 5656.64 | 37.00 | 1.50 | -0.76 | -1.30 |
| | 13294.00 | 89.69 | 0.24 | 247.3 | 5743.16 | -203.39 | 7451.38 | 2333.38 | 5745.62 | 89.00 | 0.74 | -0.73 | 0.11 |
| | 13383.00 | 90.00 | 0.29 | 252.7 | 5832.16 | -202.97 | 7451.62 | 2333.62 | 5834.61 | 89.00 | 0.35 | 0.35 | 0.06 |
| | 13472.00 | 89.88 | 0.25 | 252.7 | 5921.16 | -202.55 | 7451.71 | 2333.71 | 5923.59 | 89.00 | 0.14 | -0.13 | -0.04 |
| | 13562.00 | 90.03 | 1.74 | 252.7 | 6011.14 | -200.99 | 7451.78 | 2333.78 | 6013.54 | 90.00 | 1.66 | 0.17 | 1.66 |
| | 13651.00 | 89.82 | 0.22 | 255.4 | 6100.12 | -199.47 | 7451.90 | 2333.90 | 6102.49 | 89.00 | 1.72 | -0.24 | -1.71 |
| | 13741.00 | 89.69 | 0.10 | 258.1 | 6190.12 | -199.22 | 7452.29 | 2334.29 | 6192.47 | 90.00 | 0.20 | -0.14 | -0.13 |
| | 13831.00 | 87.94 | 0.68 | 255.4 | 6280.10 | -198.61 | 7454.15 | 2336.15 | 6282.42 | 90.00 | 2.05 | -1.94 | 0.64 |
| | 13920.00 | 88.06 | 0.66 | 252.7 | 6369.04 | -197.57 | 7457.25 | 2339.25 | 6371.34 | 89.00 | 0.14 | 0.13 | -0.02 |
| | 14010.00 | 90.49 | 1.96 | 255.4 | 6459.00 | -195.51 | 7458.39 | 2340.39 | 6461.25 | 90.00 | 3.06 | 2.70 | 1.44 |
| | 14099.00 | 90.12 | 359.65 | 255.4 | 6547.98 | -194.26 | 7457.92 | 2339.92 | 6550.21 | 89.00 | 2.63 | -0.42 | -2.60 |
| | 14189.00 | 90.03 | 359.44 | 255.4 | 6637.98 | -194.97 | 7457.80 | 2339.80 | 6640.21 | 90.00 | 0.25 | -0.10 | -0.23 |
| | 14278.00 | 90.03 | 359.50 | 255.4 | 6726.97 | -195.80 | 7457.75 | 2339.75 | 6729.20 | 89.00 | 0.07 | 0.00 | 0.07 |
| | 14368.00 | 90.09 | 359.66 | 258.1 | 6816.97 | -196.46 | 7457.66 | 2339.66 | 6819.20 | 90.00 | 0.19 | 0.07 | 0.18 |
| | 14458.00 | 90.15 | 359.61 | 255.4 | 6906.97 | -197.03 | 7457.47 | 2339.47 | 6909.20 | 90.00 | 0.09 | 0.07 | -0.06 |

| | | | | | | | | | | | | | |
|------------|----------|-------|--------|-------|----------|---------|---------|---------|----------|-------|------|-------|-------|
| | 14548.00 | 90.46 | 359.62 | 255.4 | 6996.97 | -197.63 | 7456.99 | 2338.99 | 6999.19 | 90.00 | 0.34 | 0.34 | 0.01 |
| | 14637.00 | 91.05 | 359.61 | 255.4 | 7085.96 | -198.23 | 7455.82 | 2337.82 | 7088.18 | 89.00 | 0.66 | 0.66 | -0.01 |
| | 14726.00 | 91.51 | 359.65 | 255.4 | 7174.93 | -198.81 | 7453.83 | 2335.83 | 7177.15 | 89.00 | 0.52 | 0.52 | 0.04 |
| | 14815.00 | 91.51 | 359.97 | 252.7 | 7263.90 | -199.10 | 7451.49 | 2333.49 | 7266.12 | 89.00 | 0.36 | 0.00 | 0.36 |
| | 14905.00 | 91.72 | 359.48 | 255.4 | 7353.86 | -199.53 | 7448.95 | 2330.95 | 7356.08 | 90.00 | 0.59 | 0.23 | -0.54 |
| | 14994.00 | 91.94 | 359.79 | 255.4 | 7442.82 | -200.10 | 7446.11 | 2328.11 | 7445.03 | 89.00 | 0.43 | 0.25 | 0.35 |
| | 15084.00 | 91.85 | 358.95 | 258.1 | 7532.76 | -201.09 | 7443.13 | 2325.13 | 7534.98 | 90.00 | 0.94 | -0.10 | -0.93 |
| | 15173.00 | 90.06 | 359.94 | 255.4 | 7621.74 | -201.95 | 7441.65 | 2323.65 | 7623.96 | 89.00 | 2.30 | -2.01 | 1.11 |
| | 15263.00 | 90.25 | 359.32 | 258.1 | 7711.74 | -202.53 | 7441.40 | 2323.40 | 7713.95 | 90.00 | 0.72 | 0.21 | -0.69 |
| | 15352.00 | 90.31 | 359.63 | 260.8 | 7800.73 | -203.35 | 7440.97 | 2322.97 | 7802.95 | 89.00 | 0.35 | 0.07 | 0.35 |
| | 15442.00 | 90.37 | 359.89 | 260.8 | 7890.73 | -203.72 | 7440.43 | 2322.43 | 7892.94 | 90.00 | 0.30 | 0.07 | 0.29 |
| | 15531.00 | 90.31 | 359.88 | 260.8 | 7979.73 | -203.90 | 7439.91 | 2321.91 | 7981.93 | 89.00 | 0.07 | -0.07 | -0.01 |
| | 15620.00 | 90.25 | 0.22 | 260.8 | 8068.73 | -203.83 | 7439.47 | 2321.47 | 8070.92 | 89.00 | 0.39 | -0.07 | 0.38 |
| | 15709.00 | 89.91 | 359.92 | 263.5 | 8157.73 | -203.72 | 7439.35 | 2321.35 | 8159.91 | 89.00 | 0.51 | -0.38 | -0.34 |
| | 15798.00 | 90.09 | 0.21 | 260.8 | 8246.73 | -203.62 | 7439.35 | 2321.35 | 8248.89 | 89.00 | 0.38 | 0.20 | 0.33 |
| | 15889.00 | 90.68 | 0.08 | 263.5 | 8337.72 | -203.39 | 7438.74 | 2320.74 | 8339.88 | 91.00 | 0.66 | 0.65 | -0.14 |
| | 15978.00 | 91.02 | 0.49 | 263.5 | 8426.71 | -202.94 | 7437.42 | 2319.42 | 8428.85 | 89.00 | 0.60 | 0.38 | 0.46 |
| | 16067.00 | 90.43 | 0.02 | 266.2 | 8515.70 | -202.55 | 7436.29 | 2318.29 | 8517.82 | 89.00 | 0.85 | -0.66 | -0.53 |
| | 16157.00 | 91.08 | 0.64 | 266.2 | 8605.69 | -202.03 | 7435.10 | 2317.10 | 8607.79 | 90.00 | 1.00 | 0.72 | 0.69 |
| | 16246.00 | 90.92 | 0.42 | 266.2 | 8694.68 | -201.21 | 7433.55 | 2315.55 | 8696.75 | 89.00 | 0.31 | -0.18 | -0.25 |
| | 16336.00 | 90.58 | 0.47 | 266.2 | 8784.66 | -200.51 | 7432.37 | 2314.37 | 8786.72 | 90.00 | 0.38 | -0.38 | 0.06 |
| | 16426.00 | 90.25 | 0.11 | 266.2 | 8874.66 | -200.05 | 7431.72 | 2313.72 | 8876.70 | 90.00 | 0.54 | -0.37 | -0.40 |
| | 16515.00 | 90.34 | 0.56 | 266.2 | 8963.66 | -199.53 | 7431.26 | 2313.26 | 8965.68 | 89.00 | 0.52 | 0.10 | 0.51 |
| | 16604.00 | 89.14 | 359.56 | 266.2 | 9052.65 | -199.44 | 7431.67 | 2313.67 | 9054.66 | 89.00 | 1.76 | -1.35 | -1.12 |
| | 16693.00 | 90.65 | 1.14 | 260.8 | 9141.65 | -198.89 | 7431.83 | 2313.83 | 9143.63 | 89.00 | 2.46 | 1.70 | 1.78 |
| | 16783.00 | 89.88 | 359.98 | 266.2 | 9231.64 | -198.01 | 7431.41 | 2313.41 | 9233.60 | 90.00 | 1.55 | -0.86 | -1.29 |
| | 16873.00 | 89.66 | 0.00 | 231.1 | 9321.64 | -198.03 | 7431.77 | 2313.77 | 9323.59 | 90.00 | 0.25 | -0.24 | 0.02 |
| | 16962.00 | 89.91 | 1.10 | 269.0 | 9410.63 | -197.18 | 7432.11 | 2314.11 | 9412.56 | 89.00 | 1.27 | 0.28 | 1.24 |
| | 17052.00 | 89.42 | 0.35 | 271.7 | 9500.62 | -196.04 | 7432.63 | 2314.63 | 9502.52 | 90.00 | 1.00 | -0.54 | -0.83 |
| | 17141.00 | 89.60 | 0.22 | 271.7 | 9589.62 | -195.59 | 7433.40 | 2315.40 | 9591.50 | 89.00 | 0.25 | 0.20 | -0.15 |
| | 17231.00 | 89.88 | 0.65 | 271.7 | 9679.61 | -194.91 | 7433.80 | 2315.80 | 9681.47 | 90.00 | 0.57 | 0.31 | 0.48 |
| | 17320.00 | 90.00 | 0.63 | 271.7 | 9768.61 | -193.92 | 7433.90 | 2315.90 | 9770.44 | 89.00 | 0.14 | 0.13 | -0.02 |
| | 17410.00 | 90.74 | 0.78 | 358.2 | 9858.60 | -192.81 | 7433.32 | 2315.32 | 9860.41 | 90.00 | 0.84 | 0.82 | 0.17 |
| | 17499.00 | 90.77 | 0.70 | 274.4 | 9947.58 | -191.66 | 7432.14 | 2314.14 | 9949.36 | 89.00 | 0.10 | 0.03 | -0.09 |
| | 17589.00 | 87.23 | 357.79 | 271.7 | 10037.54 | -192.84 | 7433.71 | 2315.71 | 10039.32 | 90.00 | 5.09 | -3.93 | -3.23 |
| | 17678.00 | 89.14 | 359.67 | 271.7 | 10126.46 | -194.81 | 7436.53 | 2318.53 | 10128.27 | 89.00 | 3.01 | 2.15 | 2.11 |
| | 17768.00 | 90.18 | 0.17 | 269.0 | 10216.46 | -194.94 | 7437.07 | 2319.07 | 10218.26 | 90.00 | 1.28 | 1.16 | 0.56 |
| | 17858.00 | 90.22 | 359.68 | 271.7 | 10306.46 | -195.06 | 7436.75 | 2318.75 | 10308.25 | 90.00 | 0.55 | 0.04 | -0.54 |
| | 17947.00 | 90.18 | 359.49 | 274.4 | 10395.46 | -195.70 | 7436.44 | 2318.44 | 10397.24 | 89.00 | 0.22 | -0.04 | -0.21 |
| | 18038.00 | 89.63 | 358.65 | 360.9 | 10486.44 | -197.18 | 7436.59 | 2318.59 | 10488.24 | 91.00 | 1.10 | -0.60 | -0.92 |
| | 18127.00 | 90.06 | 359.45 | 271.7 | 10575.43 | -198.66 | 7436.83 | 2318.83 | 10577.24 | 89.00 | 1.02 | 0.48 | 0.90 |
| | 18216.00 | 90.18 | 359.76 | 274.4 | 10664.43 | -199.27 | 7436.65 | 2318.65 | 10666.24 | 89.00 | 0.37 | 0.13 | 0.35 |
| | 18306.00 | 89.78 | 359.73 | 274.4 | 10754.43 | -199.67 | 7436.68 | 2318.68 | 10756.23 | 90.00 | 0.45 | -0.44 | -0.03 |
| | 18396.00 | 90.83 | 0.94 | 360.9 | 10844.42 | -199.14 | 7436.20 | 2318.20 | 10846.21 | 90.00 | 1.78 | 1.17 | 1.34 |
| | 18486.00 | 89.85 | 358.99 | 360.9 | 10934.41 | -199.20 | 7435.67 | 2317.67 | 10936.19 | 90.00 | 2.42 | -1.09 | -2.17 |
| | 18575.00 | 90.12 | 359.17 | 271.7 | 11023.40 | -200.63 | 7435.69 | 2317.69 | 11025.19 | 89.00 | 0.36 | 0.30 | 0.20 |
| | 18665.00 | 90.43 | 359.63 | 274.4 | 11113.40 | -201.57 | 7435.26 | 2317.26 | 11115.19 | 90.00 | 0.62 | 0.34 | 0.51 |
| | 18754.00 | 90.65 | 360.00 | 274.4 | 11202.39 | -201.86 | 7434.42 | 2316.42 | 11204.18 | 89.00 | 0.48 | 0.25 | 0.42 |
| | 18843.00 | 90.74 | 359.87 | 271.7 | 11291.39 | -201.96 | 7433.34 | 2315.34 | 11293.16 | 89.00 | 0.18 | 0.10 | -0.15 |
| | 18933.00 | 89.38 | 359.55 | 109.5 | 11381.38 | -202.41 | 7433.24 | 2315.24 | 11383.15 | 90.00 | 1.55 | -1.51 | -0.36 |
| | 19022.00 | 88.74 | 0.01 | 274.4 | 11470.37 | -202.76 | 7434.70 | 2316.70 | 11472.13 | 89.00 | 0.89 | -0.72 | 0.52 |
| | 19112.00 | 88.86 | 0.35 | 269.0 | 11560.35 | -202.47 | 7436.59 | 2318.59 | 11562.10 | 90.00 | 0.40 | 0.13 | 0.38 |
| | 19200.00 | 88.71 | 359.92 | 271.7 | 11648.33 | -202.27 | 7438.46 | 2320.46 | 11650.06 | 88.00 | 0.52 | -0.17 | -0.49 |
| | 19289.00 | 90.40 | 0.86 | 274.4 | 11737.32 | -201.66 | 7439.15 | 2321.15 | 11739.04 | 89.00 | 2.17 | 1.90 | 1.06 |
| | 19379.00 | 88.61 | 0.20 | 271.7 | 11827.31 | -200.83 | 7439.92 | 2321.92 | 11829.00 | 90.00 | 2.12 | -1.99 | -0.73 |
| | 19469.00 | 88.62 | 0.62 | 271.7 | 11917.28 | -200.18 | 7442.10 | 2324.10 | 11918.95 | 90.00 | 0.47 | 0.01 | 0.47 |
| | 19558.00 | 90.46 | 359.83 | 271.7 | 12006.27 | -199.83 | 7442.81 | 2324.81 | 12007.93 | 89.00 | 2.25 | 2.07 | -0.89 |
| | 19648.00 | 90.68 | 0.06 | 274.4 | 12096.27 | -199.92 | 7441.92 | 2323.92 | 12097.91 | 90.00 | 0.35 | 0.24 | 0.26 |
| | 19737.00 | 90.52 | 0.26 | 274.4 | 12185.26 | -199.67 | 7440.99 | 2322.99 | 12186.89 | 89.00 | 0.29 | -0.18 | 0.22 |
| | 19826.00 | 90.68 | 0.14 | 271.7 | 12274.26 | -199.36 | 7440.05 | 2322.05 | 12275.87 | 89.00 | 0.22 | 0.18 | -0.13 |
| | 19916.00 | 90.65 | 0.25 | 274.4 | 12364.25 | -199.05 | 7439.01 | 2321.01 | 12365.85 | 90.00 | 0.13 | -0.03 | 0.12 |
| | 20005.00 | 90.58 | 0.09 | 274.4 | 12453.24 | -198.79 | 7438.05 | 2320.05 | 12454.83 | 89.00 | 0.20 | -0.08 | -0.18 |
| | 20095.00 | 90.58 | 0.30 | 274.4 | 12543.24 | -198.48 | 7437.14 | 2319.14 | 12544.81 | 90.00 | 0.23 | -0.00 | 0.23 |
| | 20181.00 | 90.74 | 0.22 | 209.5 | 12629.23 | -198.09 | 7436.15 | 2318.15 | 12630.78 | 86.00 | 0.21 | 0.19 | -0.09 |
| Projection | 20205.00 | 90.74 | 0.22 | N/A | 12653.23 | -198.00 | 7435.84 | 2317.84 | 12654.78 | 24.00 | 0.00 | 0.01 | 0.00 |