



Gamma Ray

LWD MEMORY LOG

Scale:

1:240

True Vertical Depth

Depth Reference:

Driller's Depth

Status:

Final Print

API No: 05-123-49077-00

Job ID: 111272873

Permanent Datum (P.D.): Mean Sea Level

Log Measured From: Rlg Floor

Dates

From: 2022-05-04
To: 2022-05-08
Spud: 2022-04-18

Drilled (ft) 1950.00
Top: 1950.00
Bottom: 17374.00

Logged (ft) 1950.00
Top: 1950.00
Bottom: 17361.00

Azi Reference North: 66.58
Total Magnetic Field Strength: (nT) 51790
Mag to Reference North Correction: (deg) 7.27

Interval

Magnetic Field Reference

Borehole Record

Casing Record

| Hole Size (in) | From (ft) | To (ft) | Size (in) | Weight (lb/ft) | From (ft) | To (ft) |
|----------------|-----------|---------|-----------|----------------|-----------|---------|
|----------------|-----------|---------|-----------|----------------|-----------|---------|

| | | | | | | |
|--------|---------|----------|-------|-------|-------|---------|
| 13.500 | 30.00 | 1950.00 | 9.625 | 36.00 | 30.00 | 1940.00 |
| 8.500 | 1950.00 | 17374.00 | | | | |

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Mud Record

Deviation Record

| Type | From (ft) | To (ft) | Hole Size (in) | Interval (ft) | Inc Az (Start) | Inc Az (End) |
|---------------|-----------|----------|----------------|---------------|------------------|----------------|
| Oil Based Mud | 1950.00 | 17374.20 | 8.500 | 15424.20 | 0.49 339.08 | 89.60 179.96 |
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Acquisition System

Software Version

Other

Cadence
Plot Studio

RT 6.4
6.4.9541.2

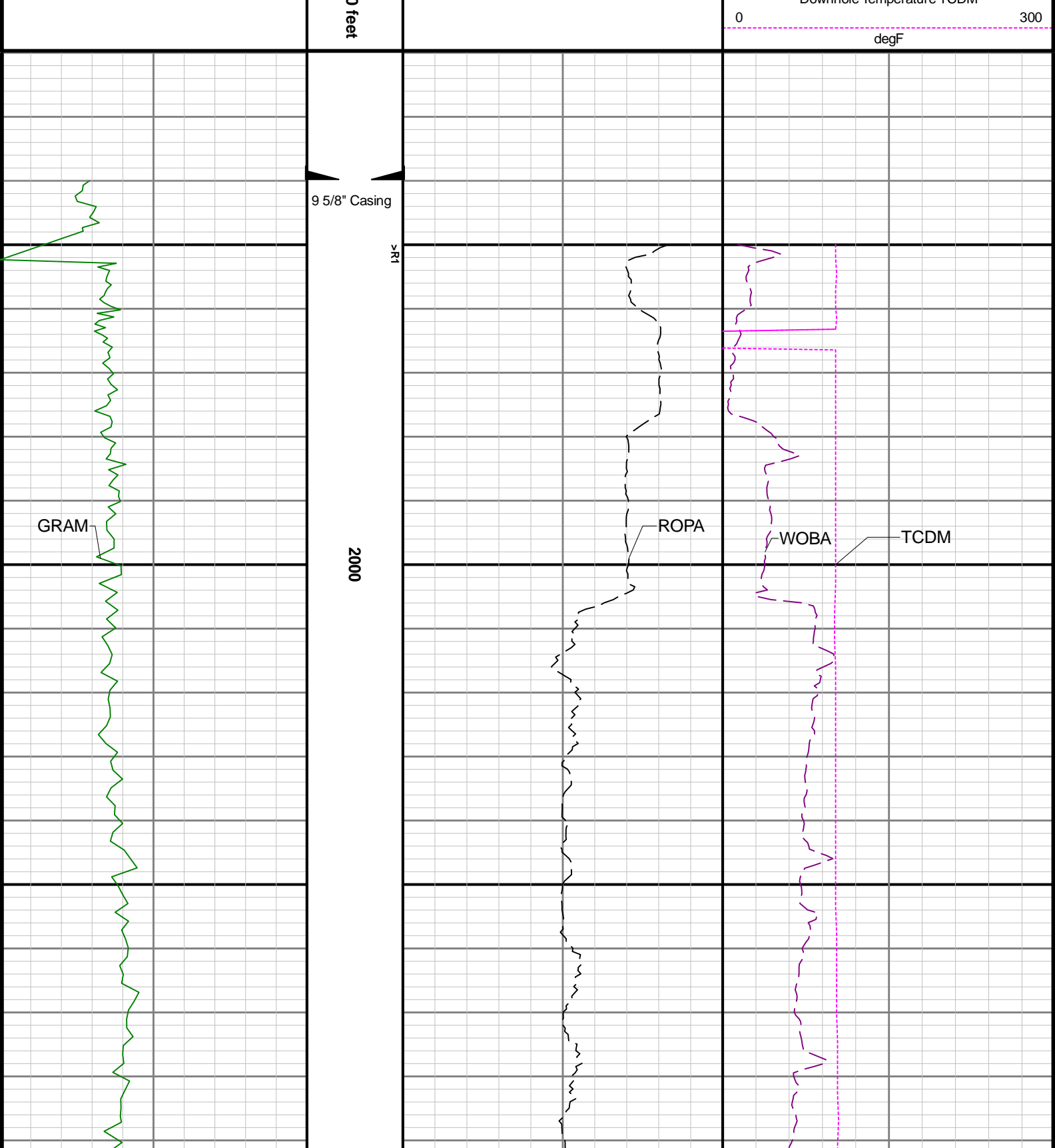
Rig: H&P 517
Contractor: Helmerich & Payne Drilling Co
District: RMA
Unit: D&E

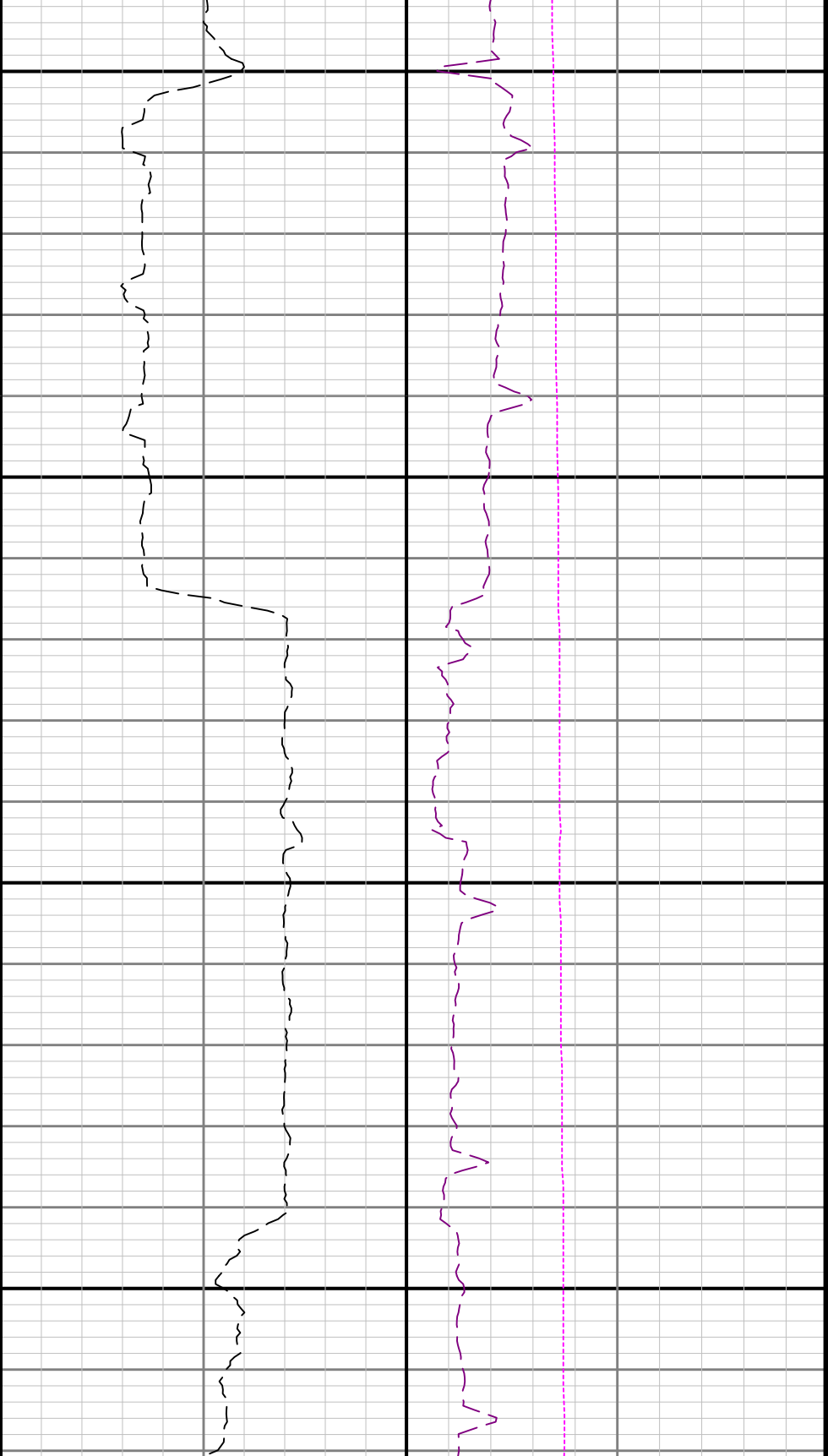
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Log Run Summary

| 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 | 1 | 8.500 | PDC | 3.00 | AutoTrak Curve | 1950.00 | 14823.00 | 1950.00 | 14835.00 | 2022-05-04 20:22 | 2022-05-07 02:26 | 46.41 |
| 2 | 2 | 8.500 | PDC | 3.00 | AutoTrak Curve | 14823.00 | 17361.00 | 14835.00 | 17374.00 | 2022-05-07 18:15 | 2022-05-08 14:09 | 19.20 |

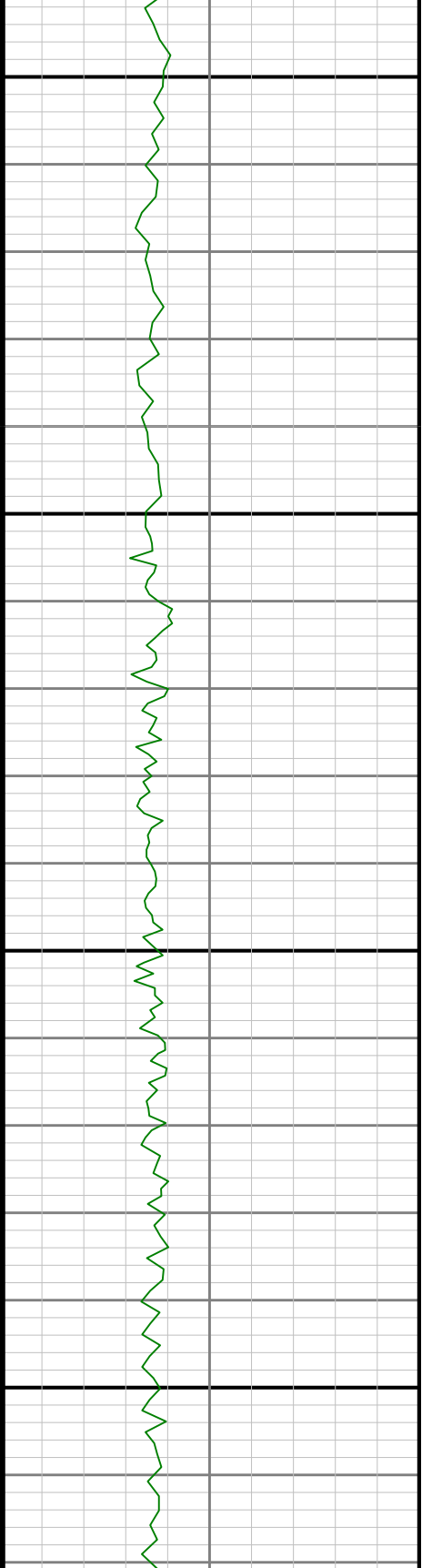
| Crew | | | | | | | | | | | | |
|--|------------------------------|-------------------|--|---------------|--|-----------------|------------------|--------------------|--|-----------------------|-----------------|--|
| Name | | Arrive Wellsite | Depart Wellsite | Name | | Arrive Wellsite | Depart Wellsite | Name | | Arrive Wellsite | Depart Wellsite | |
| Tien Bui | | 2022-05-03 | 2022-05-09 | | | | | | | | | |
| 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+ (%) | |
| 2022-05-03 20:03 | 1 | 1950.00 | Oil Based Mud | 9.3 | 10 | N/A | 18.5 | 79.5/20.5 | Active Pit | 25000 | N/A | |
| 2022-05-07 03:14 | 1 | 9565.00 | Oil Based Mud | 9.9 | 15 | N/A | 17.6 | 80.5/19.5 | Active Pit | 28500 | N/A | |
| 2022-05-07 05:17 | 1 | 14835.00 | Oil Based Mud | 9.9 | 15 | N/A | 16.8 | 80.8/19.2 | Active Pit | 28500 | N/A | |
| 2022-05-07 11:13 | 2 | 14835.00 | Oil Based Mud | 9.9 | 15 | N/A | 16.8 | 80.8/19.2 | Active Pit | 28500 | 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) | |
| 1 | AutoTrak Curve Steering Unit | | 12194649 | | Near Bit Inclination | | | 5.93 | 6.74 | 7.000 | 4.330 | |
| 1 | AutoTrak Curve Steering Unit | | 12194649 | | Near Bit VSS | | | 5.93 | 6.74 | 7.000 | 4.330 | |
| 1 | AutoTrak Curve MWD | | 14305965 | | Gamma (single) | | | 2.79 | 12.91 | 7.000 | 3.250 | |
| 1 | AutoTrak Curve MWD | | 14305965 | | Directional (mag) | | | 12.27 | 22.39 | 7.000 | 3.250 | |
| 2 | AutoTrak Curve Steering Unit | | 15082648 | | Near Bit Inclination | | | 5.93 | 6.78 | 7.000 | 4.330 | |
| 2 | AutoTrak Curve Steering Unit | | 15082648 | | Near Bit VSS | | | 5.93 | 6.78 | 7.000 | 4.330 | |
| 2 | AutoTrak Curve MWD | | 14275758 | | Gamma (single) | | | 2.84 | 12.95 | 7.000 | 3.250 | |
| 2 | AutoTrak Curve MWD | | 14275758 | | Directional (mag) | | | 12.27 | 22.38 | 7.000 | 3.250 | |
| Service and Tool Mnemonics | | | | | | | | | | | | |
| Mnemonic | Name | | Description | | | | | | | | | |
| 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 Baker Hughes Company runs 1 and 2 utilized 6 ¾ inch NaviGamma services (Gamma Ray and Directional) behind an 8 ½ inch PDC bit and rotary steerable assembly from 1949 to 17374 feet MD (1949 to 6645 feet TVD). | | | | | | | | | | | | |
| 2 The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request. | | | | | | | | | | | | |
| 3 Various gaps were not logged due to tool issue unable to power up. | | | | | | | | | | | | |
| 4 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 | | | | | | | | |
| Curve Mnemonics | | | | | | | | | | | | |
| Presented Curves | | | Description | | | | | | | | Units | |
| ROPA | | | Depth Averaged ROP 3 ft Average | | | | | | | | ft/h | |
| WOBA | | | Weight On Bit, Average 1 ft Average | | | | | | | | klb | |
| GRAM | | | Gamma Ray - Apparent - Memory 0.5 ft Average | | | | | | | | API | |
| TCDM | | | Directional Real-Time Survey Temperature | | | | | | | | degF | |
| Gamma Ray - Apparent 0.5 ft Average GRAM 0 300 | | | | TVD 1:24 | Depth Averaged ROP 3 ft Average ROPA 1000 0 | | | | Weight On Bit, Average 1 ft Average WOBA 0 50 | | | |
| API | | | | | ft/h | | | | klb | | | |
| | | | | | | | | | Downhole Temperature TCDM | | | |

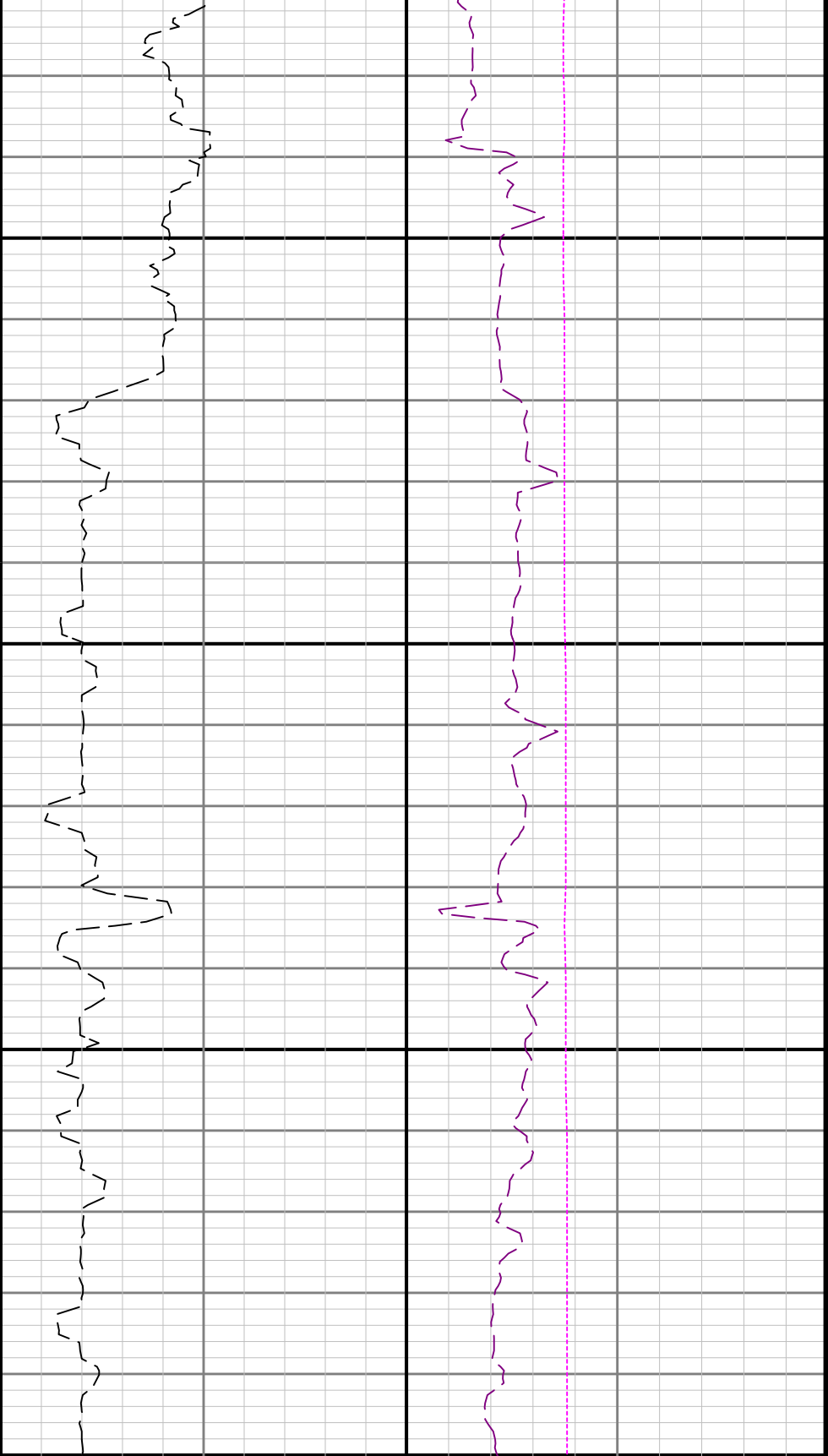




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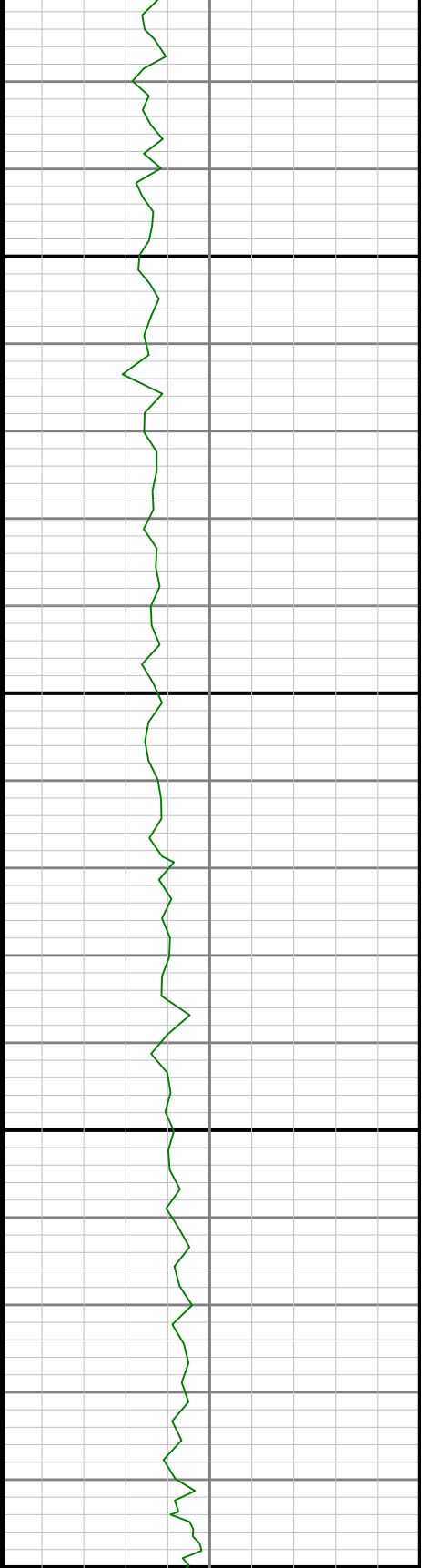
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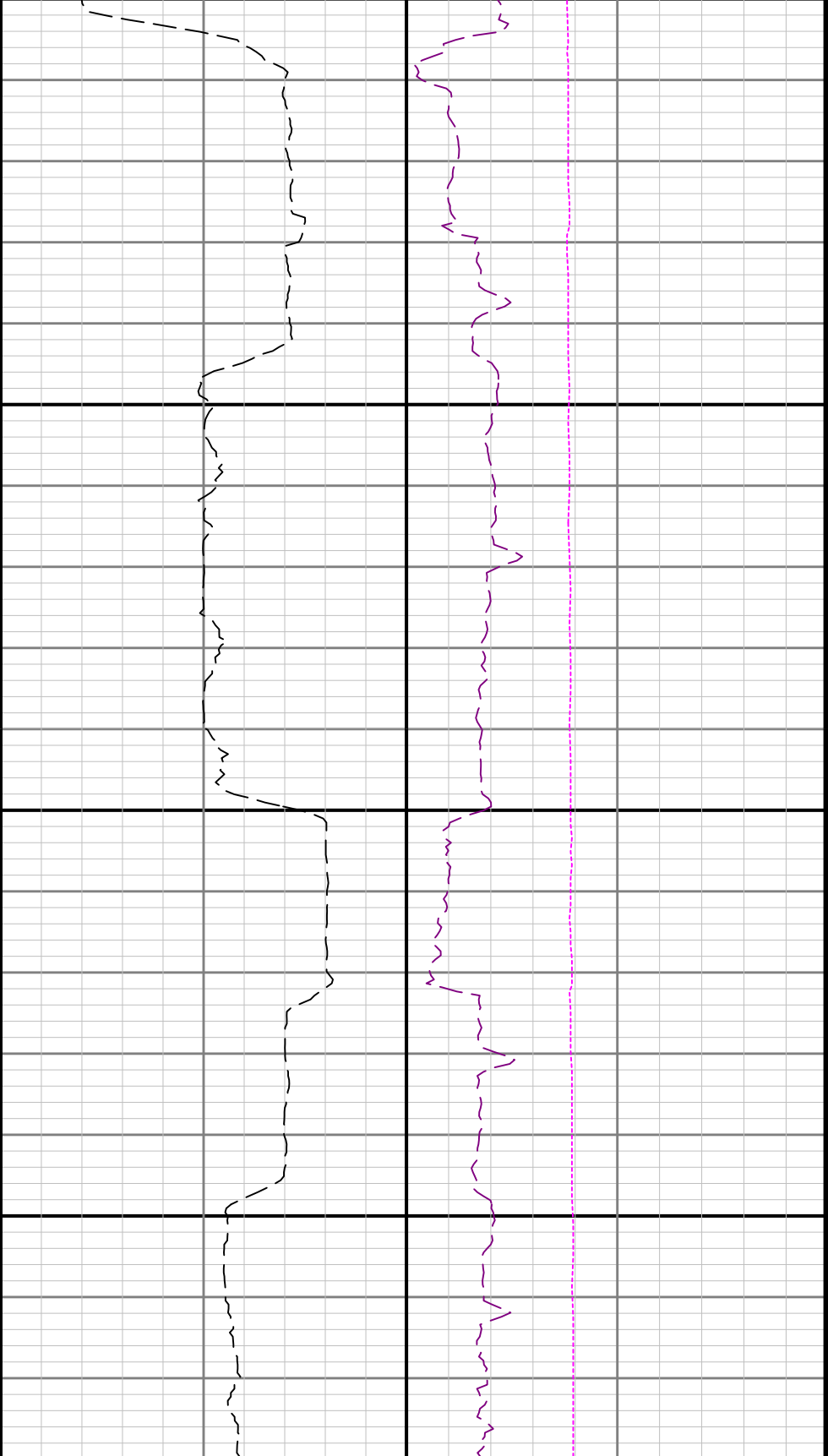




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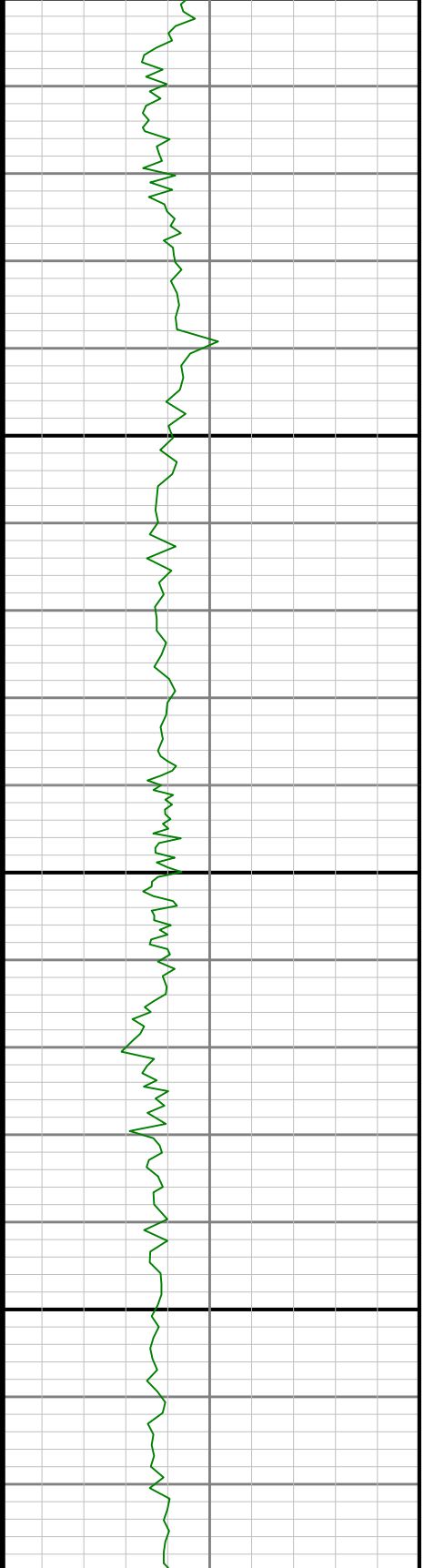
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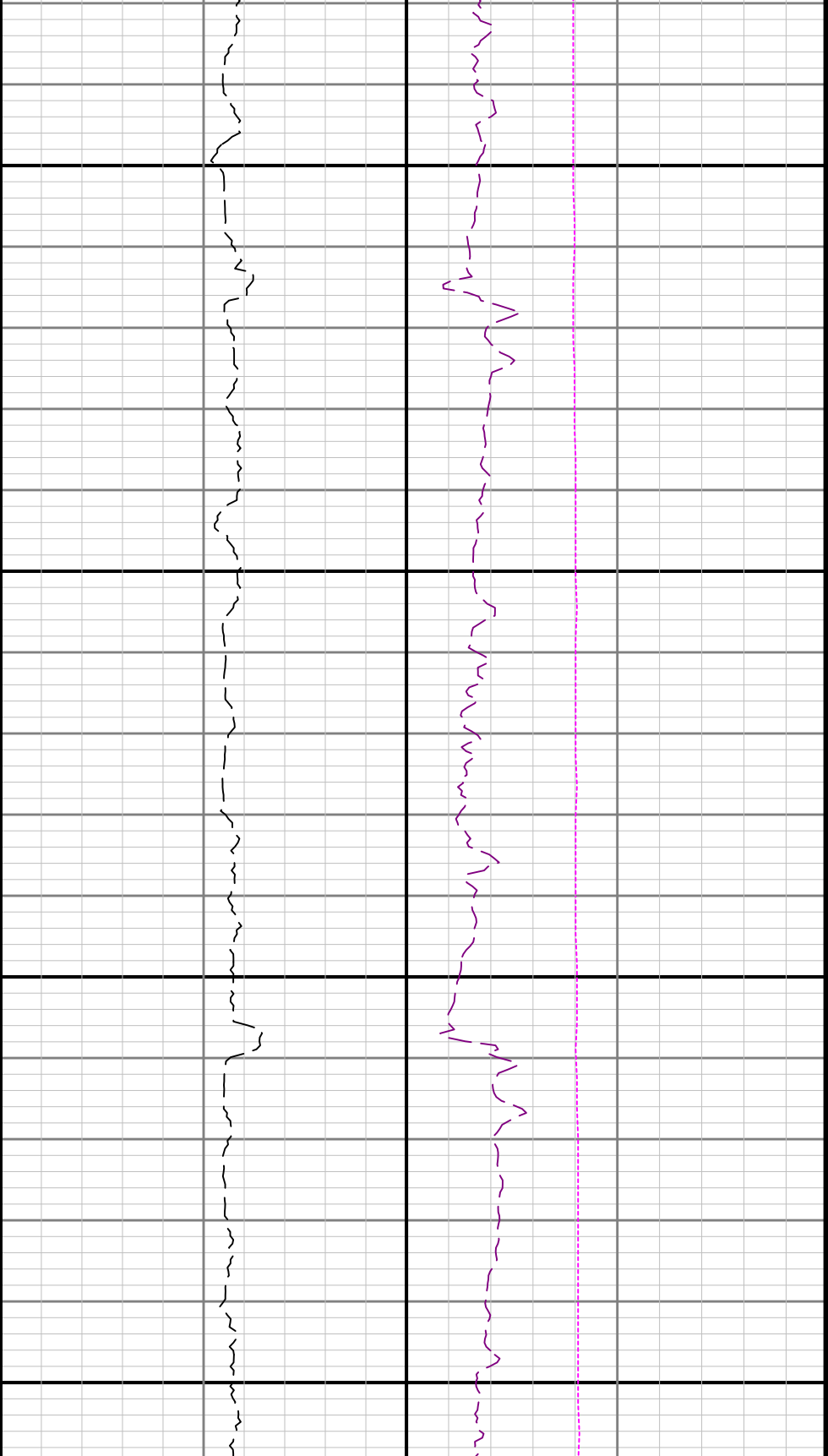




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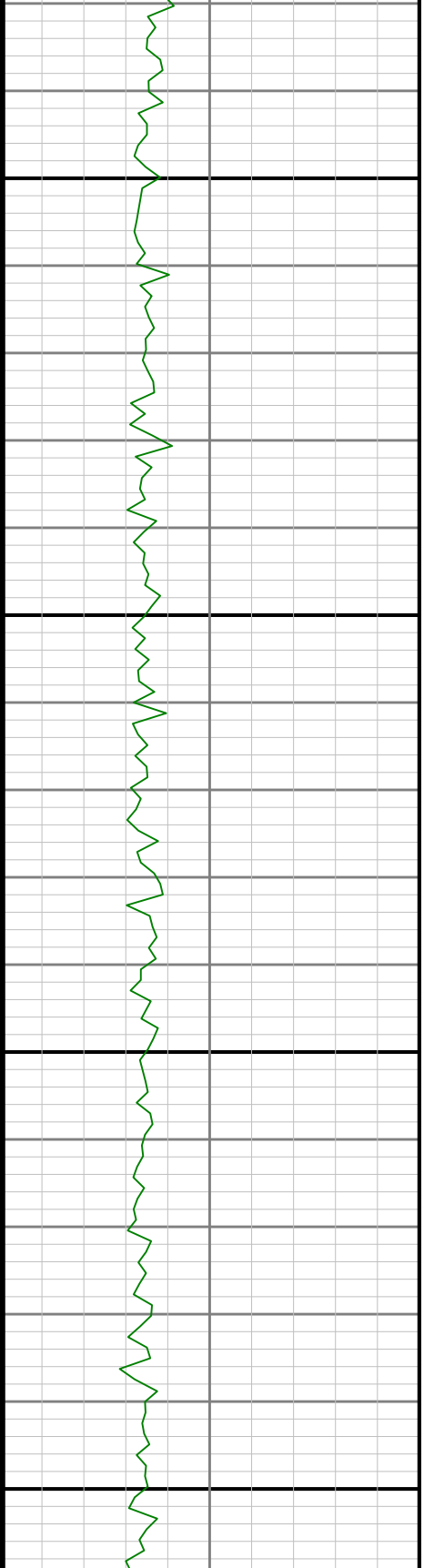
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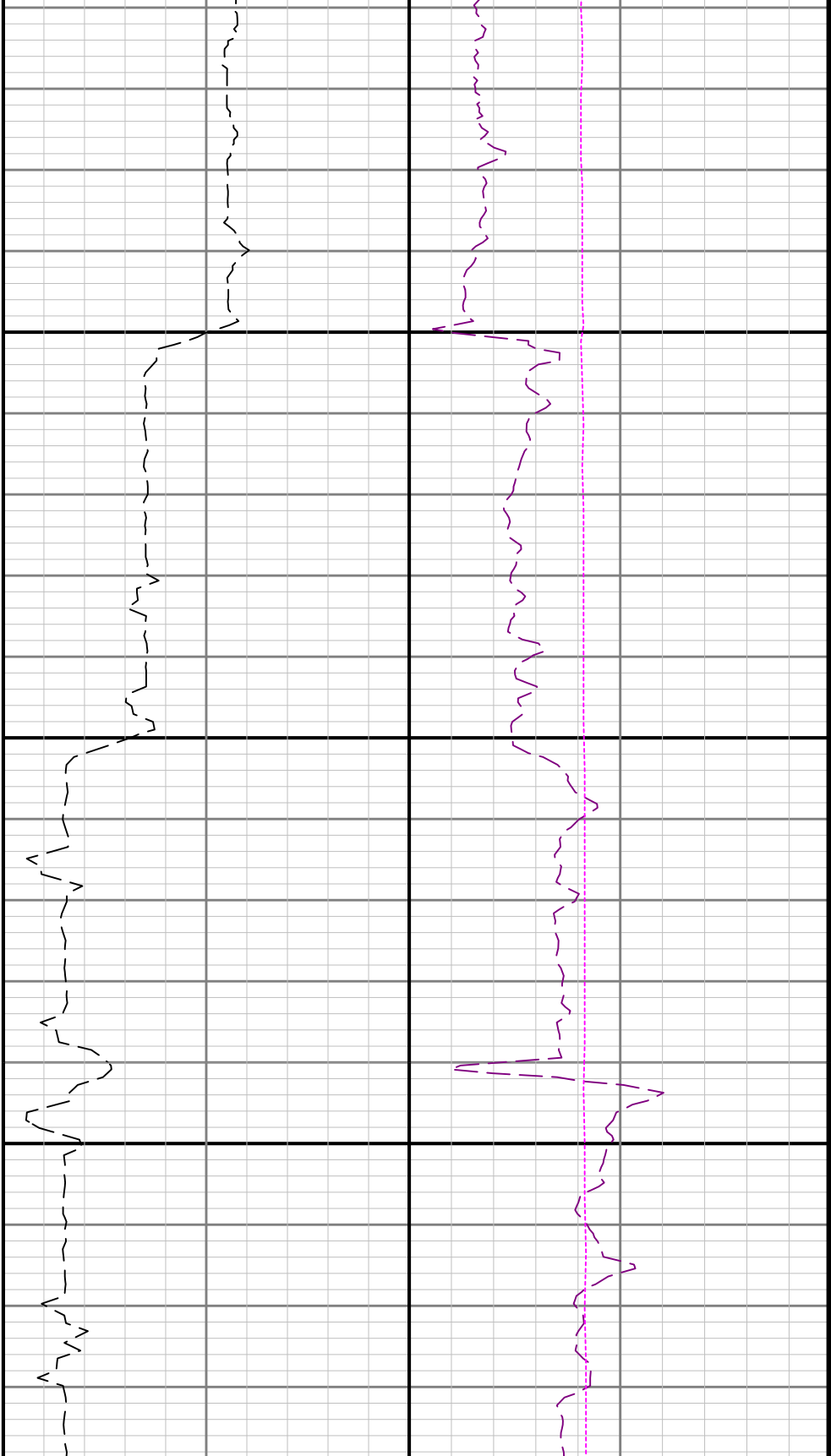




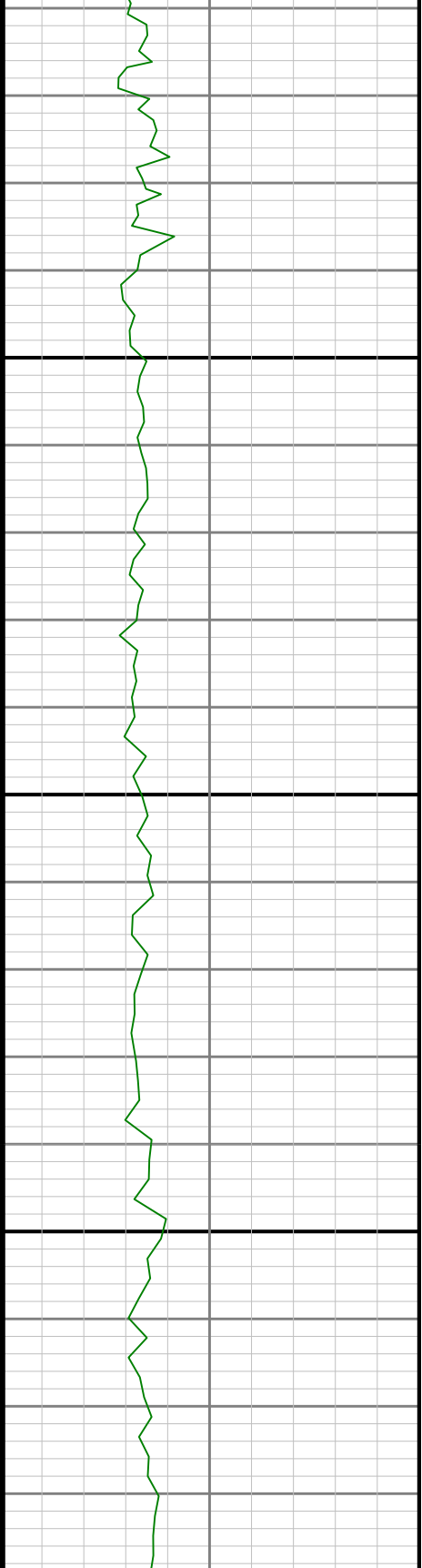
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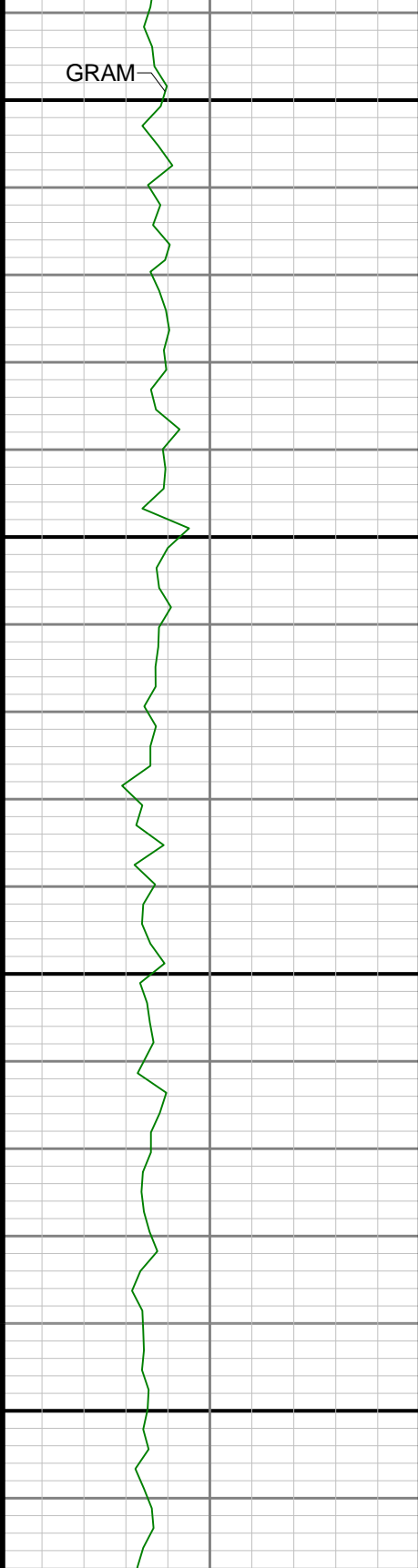
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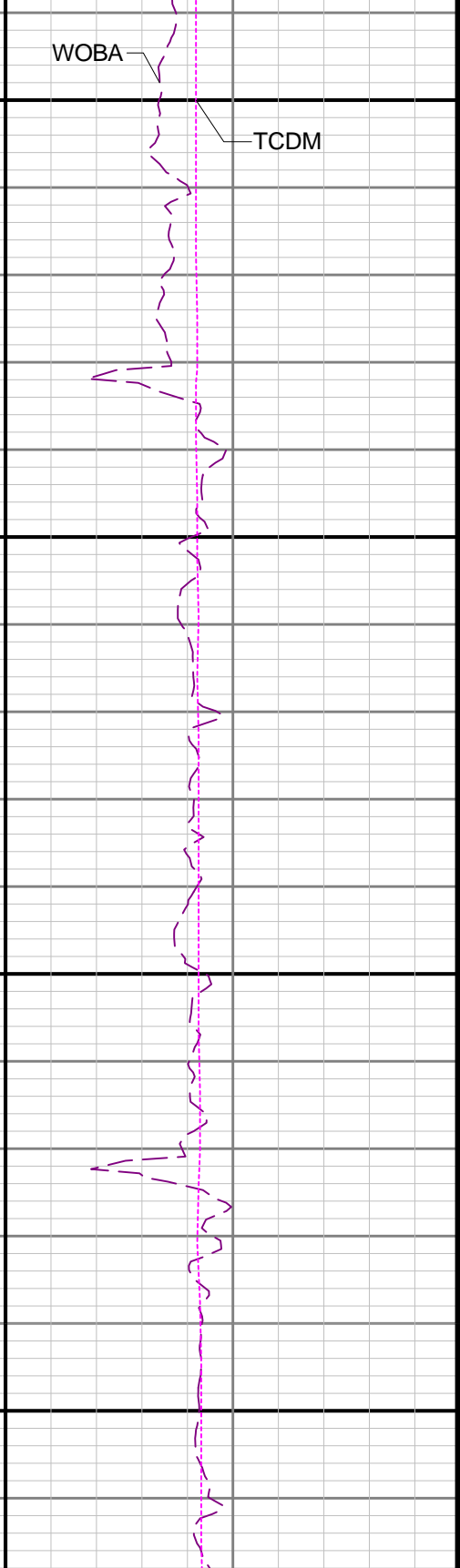
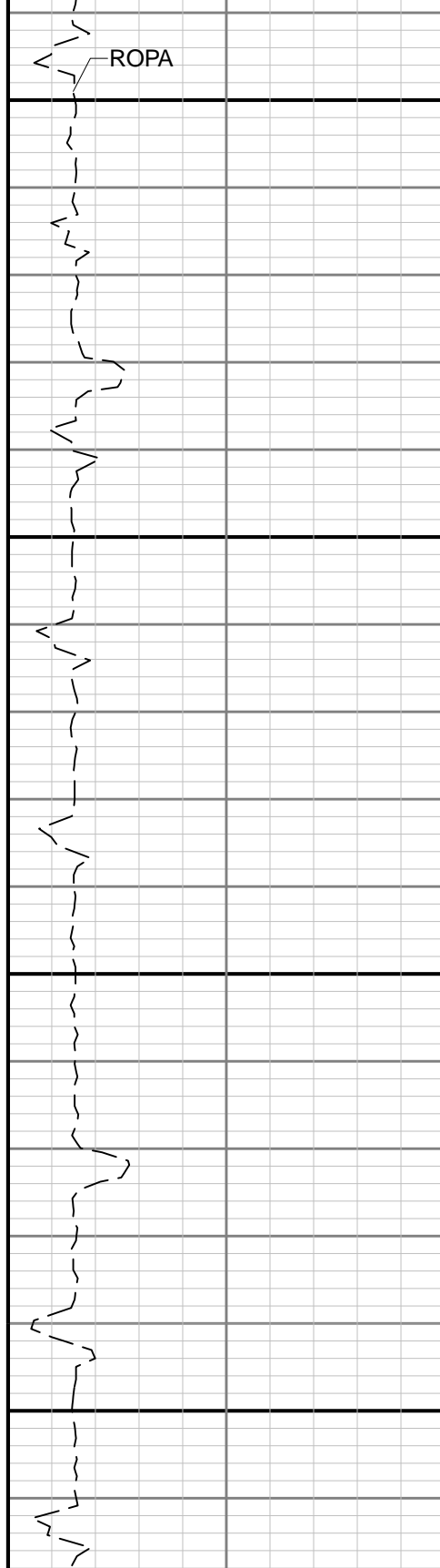
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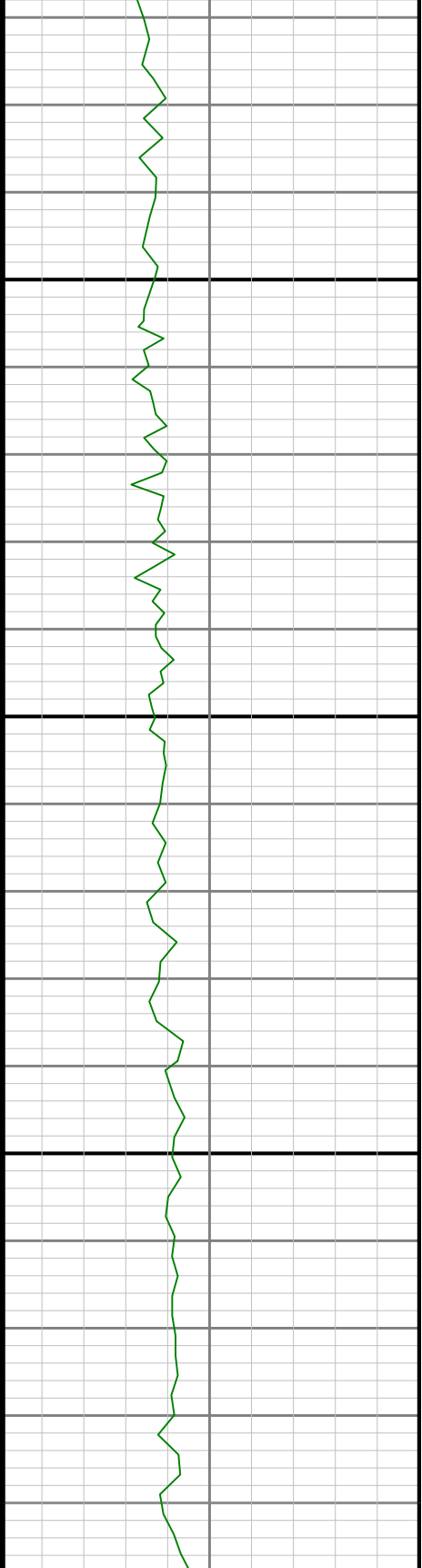
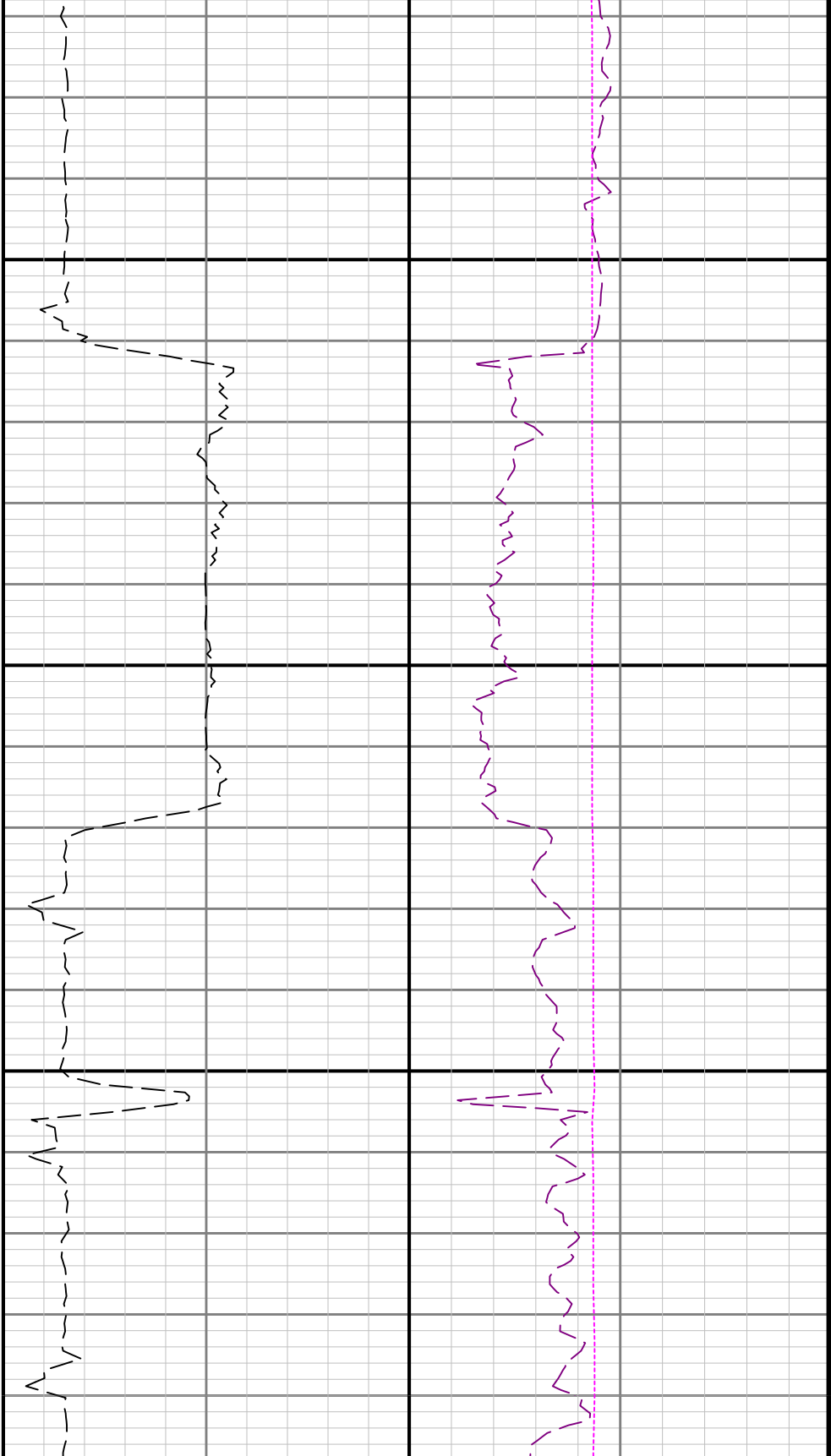


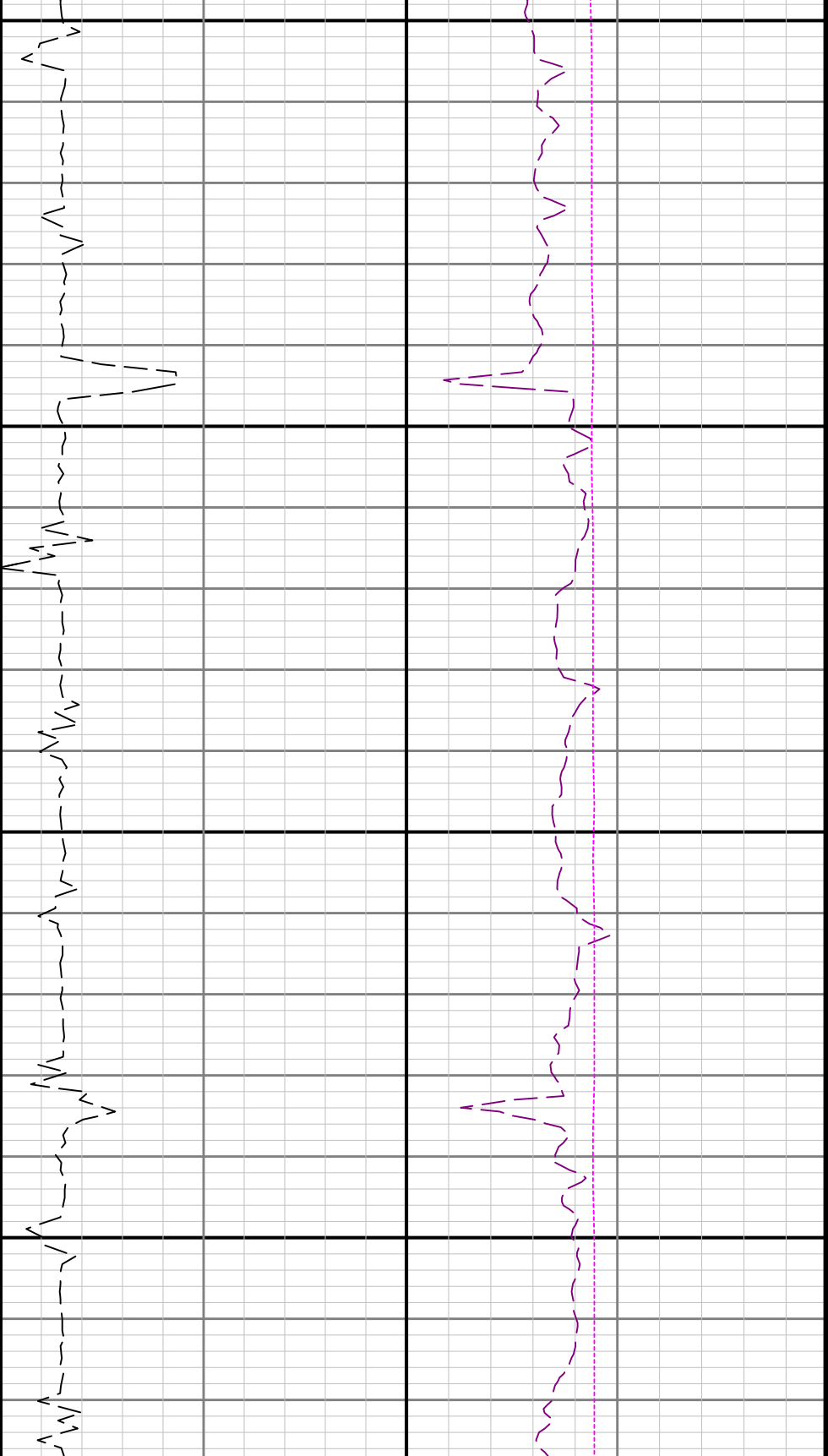


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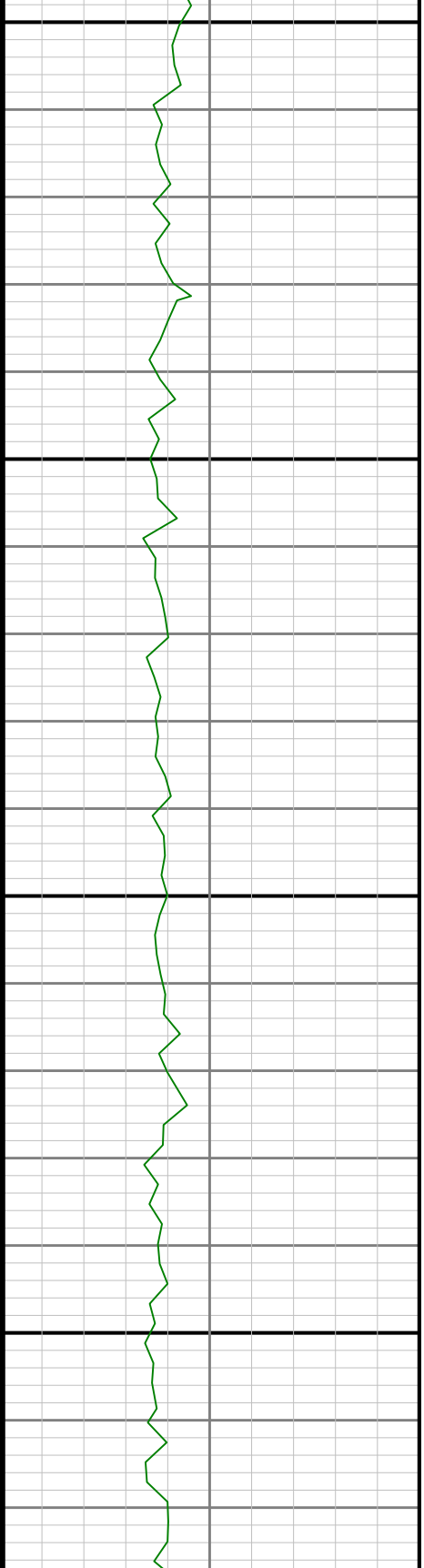


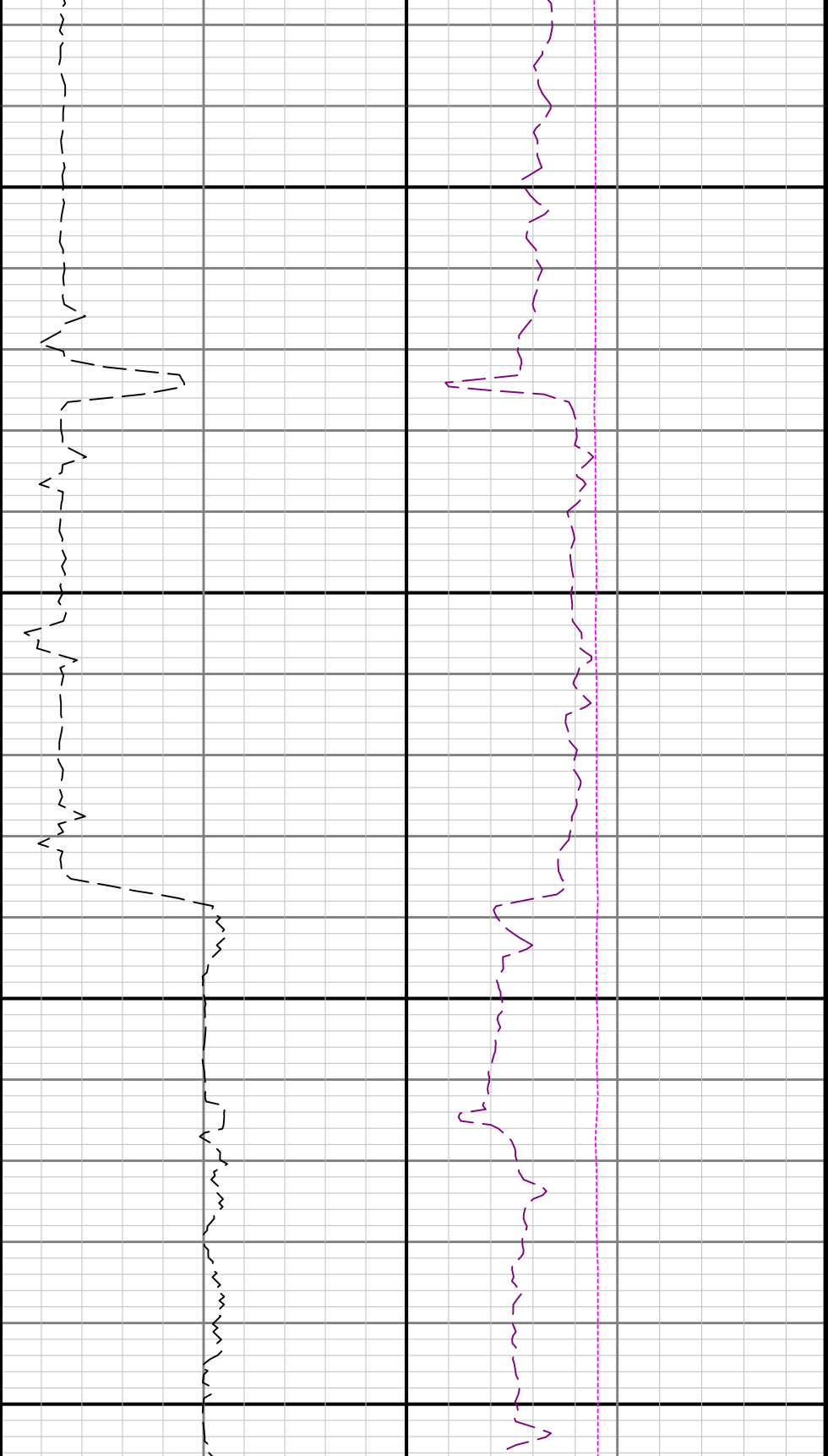




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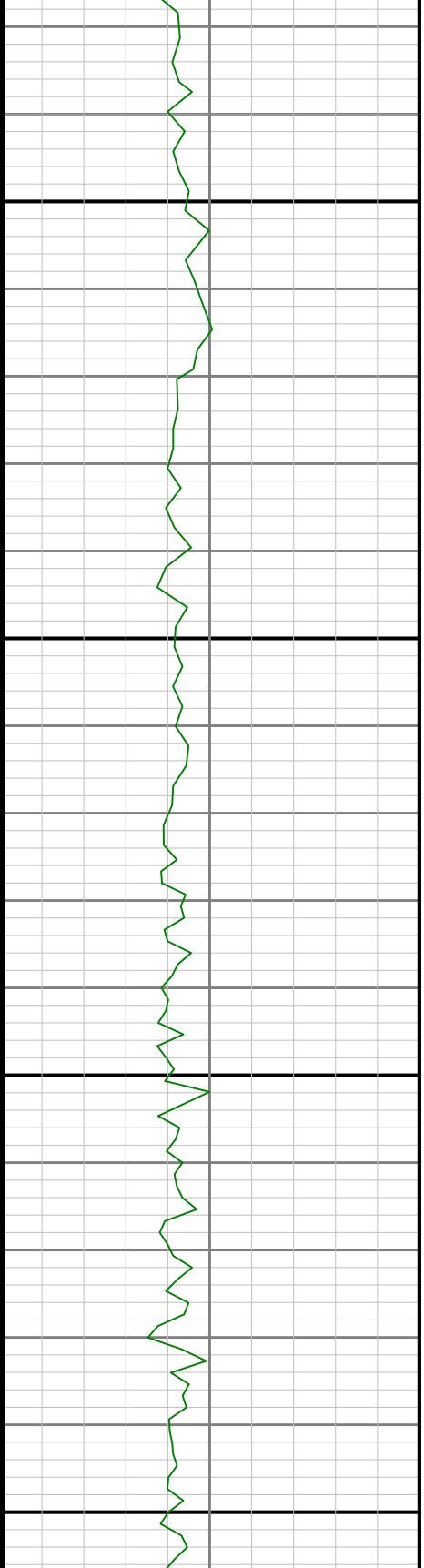
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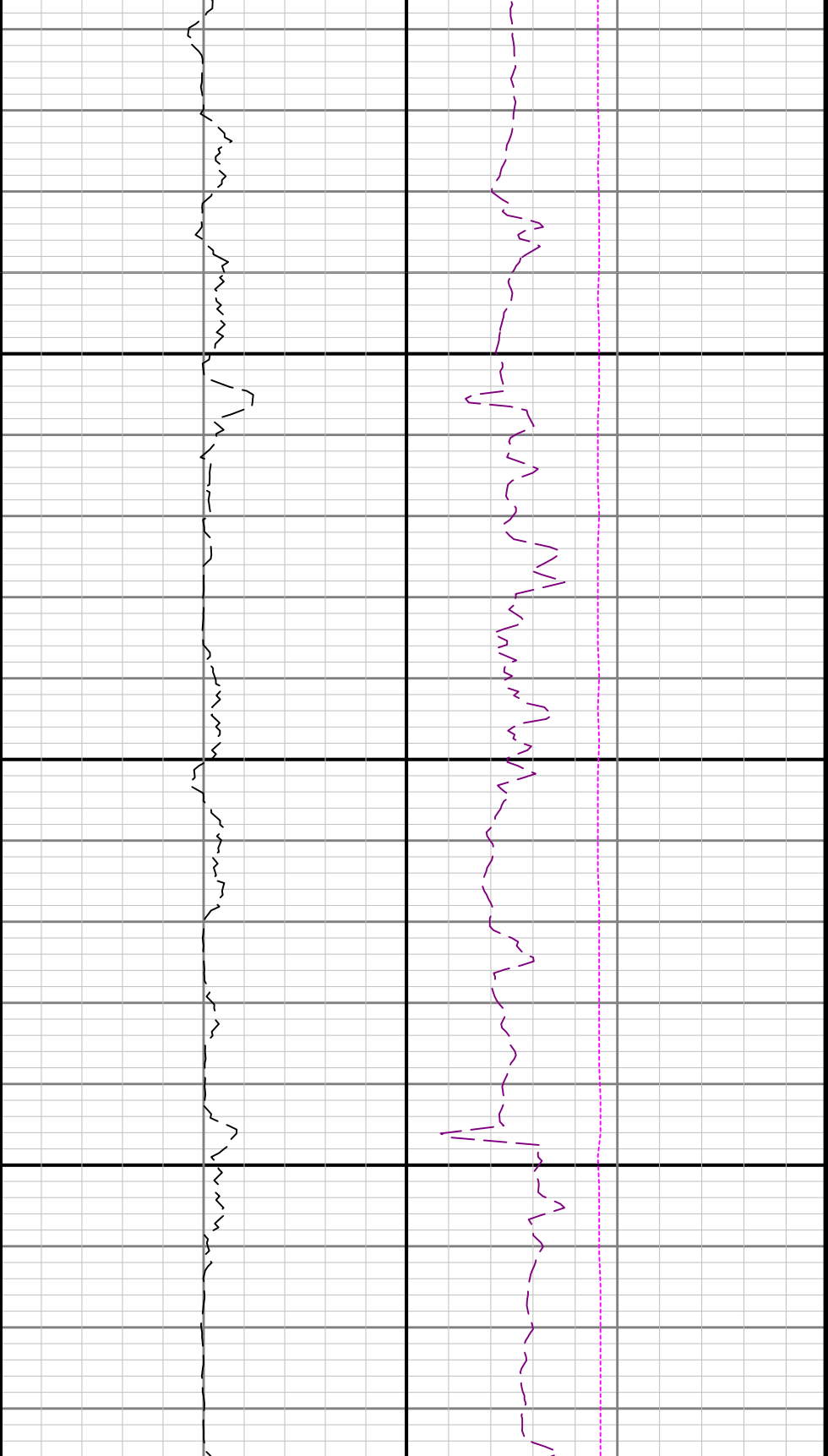




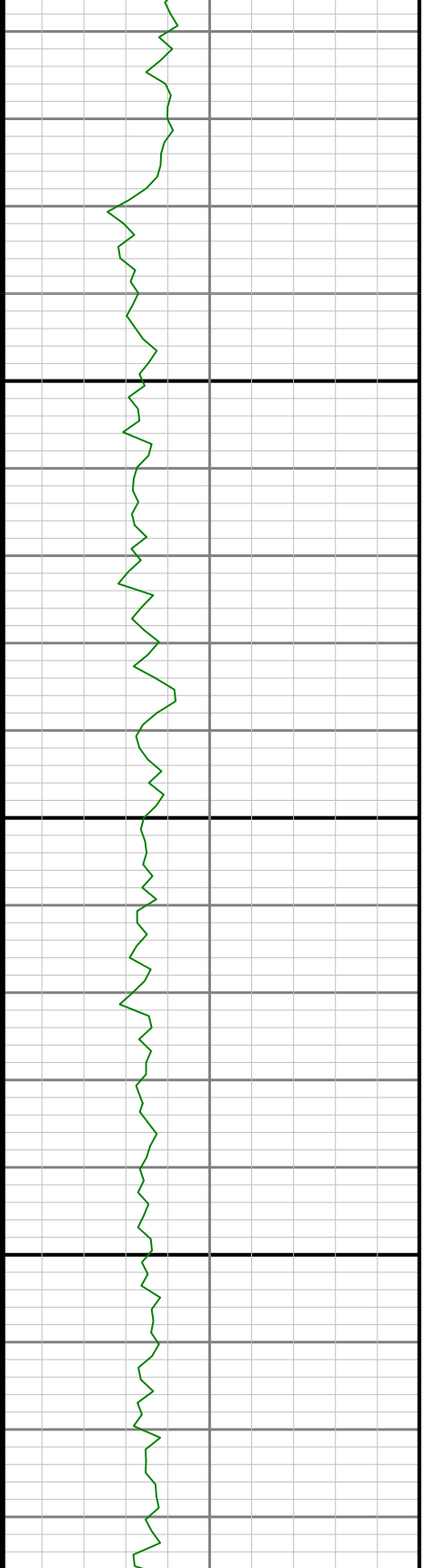
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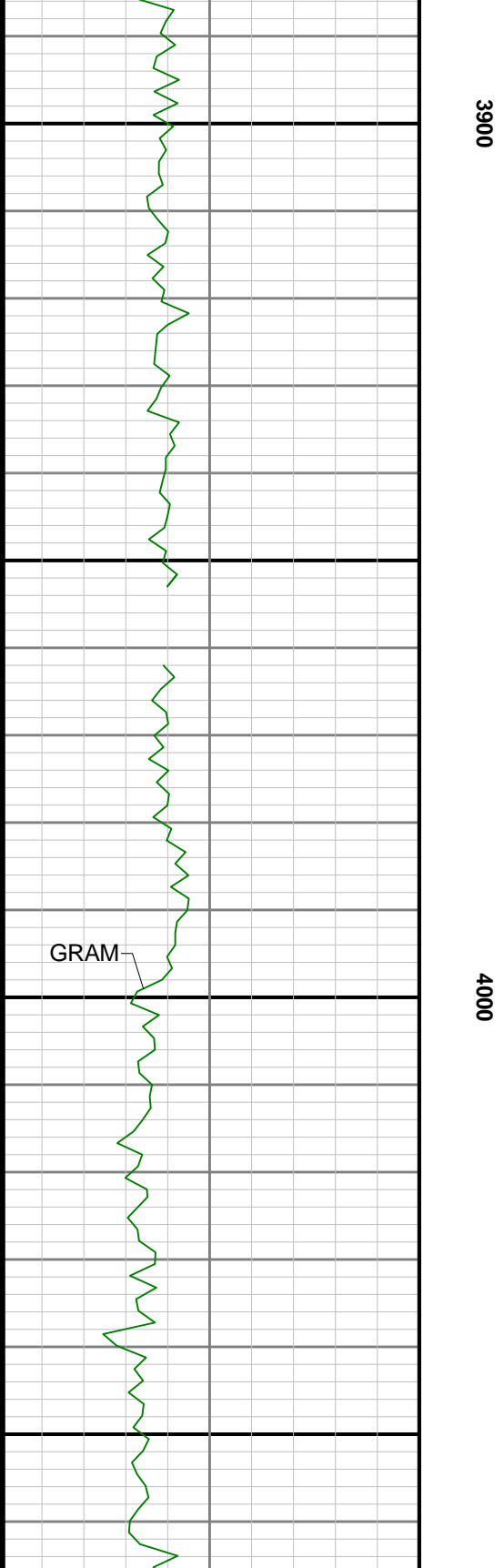
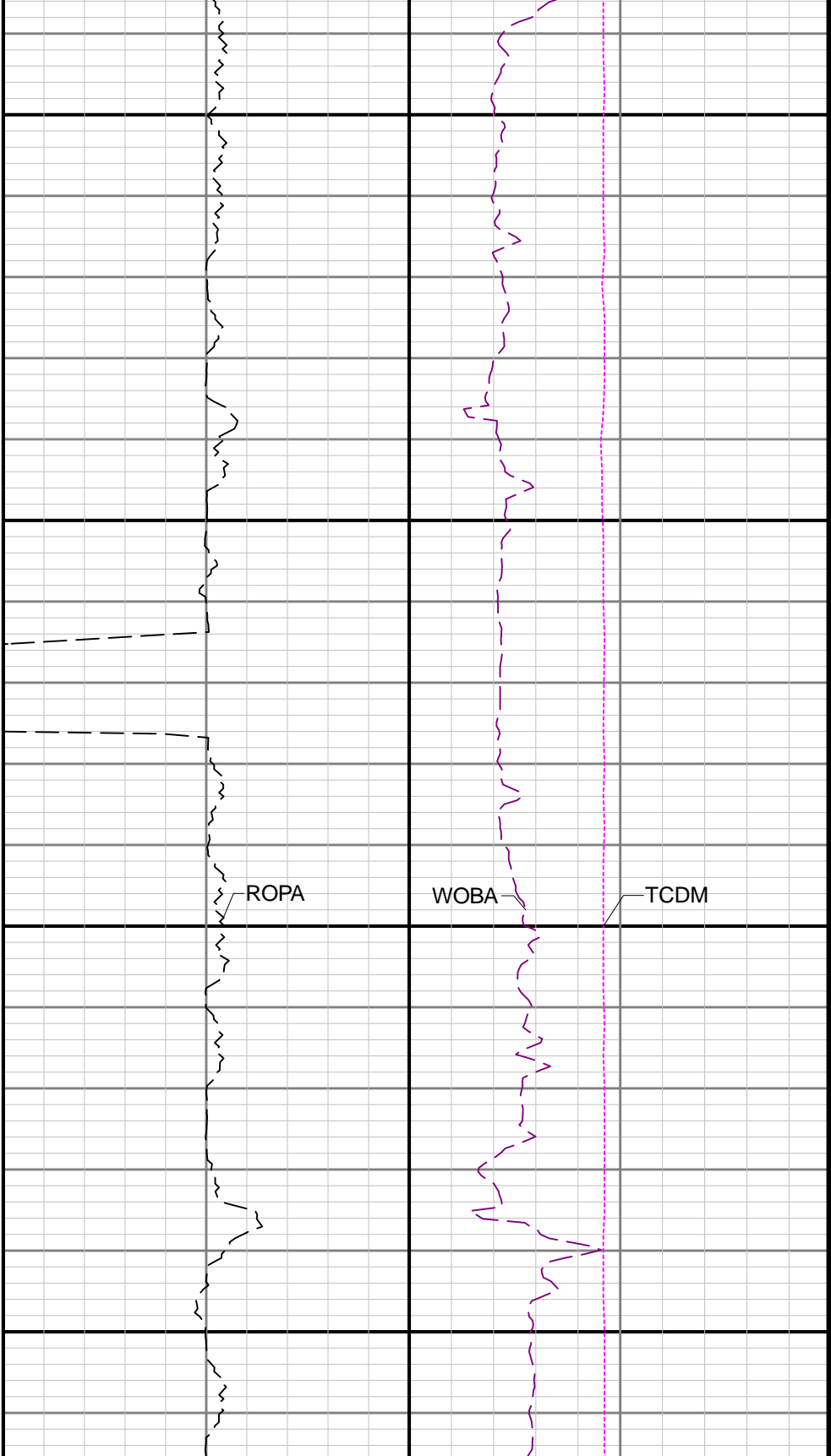
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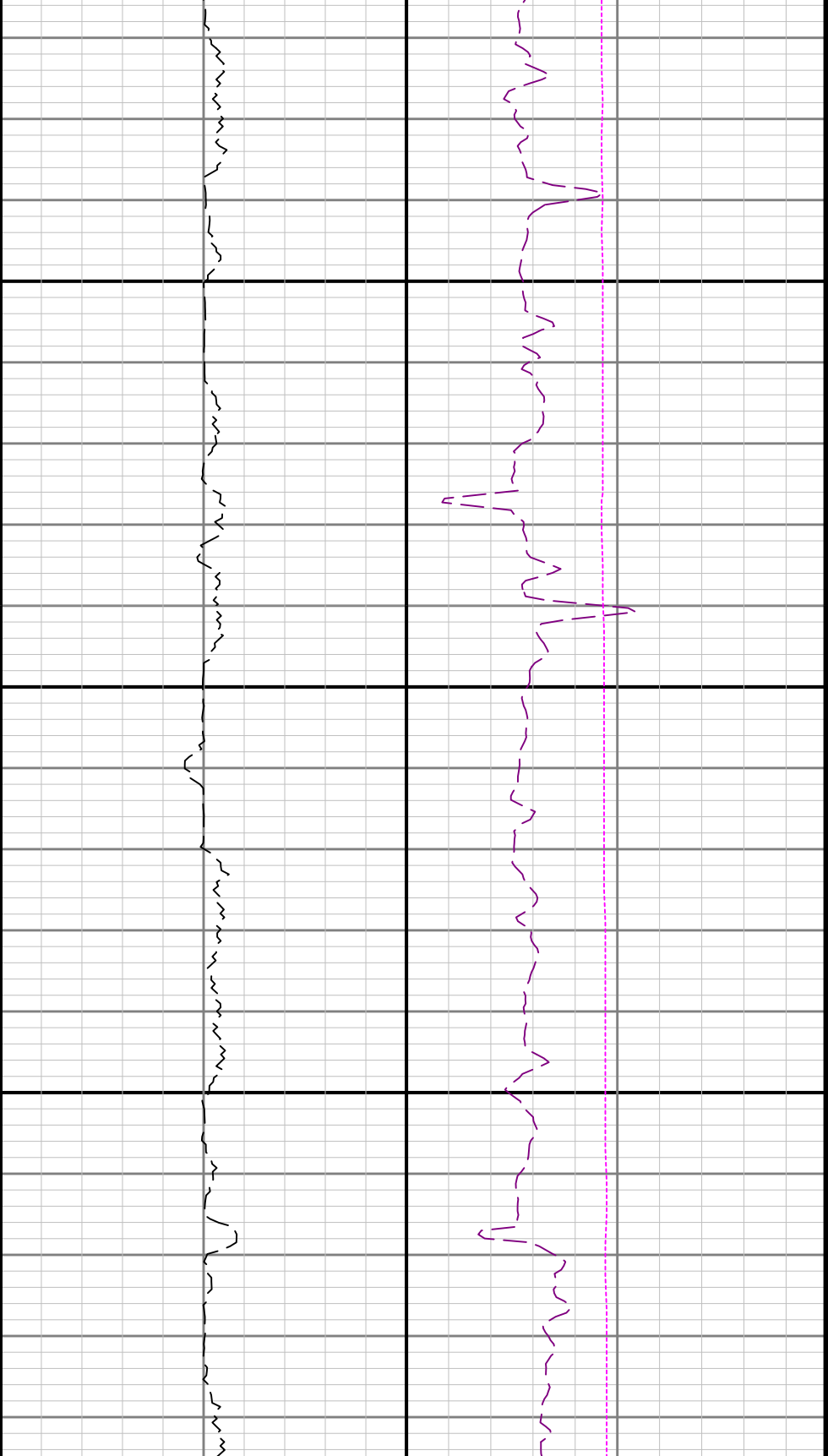




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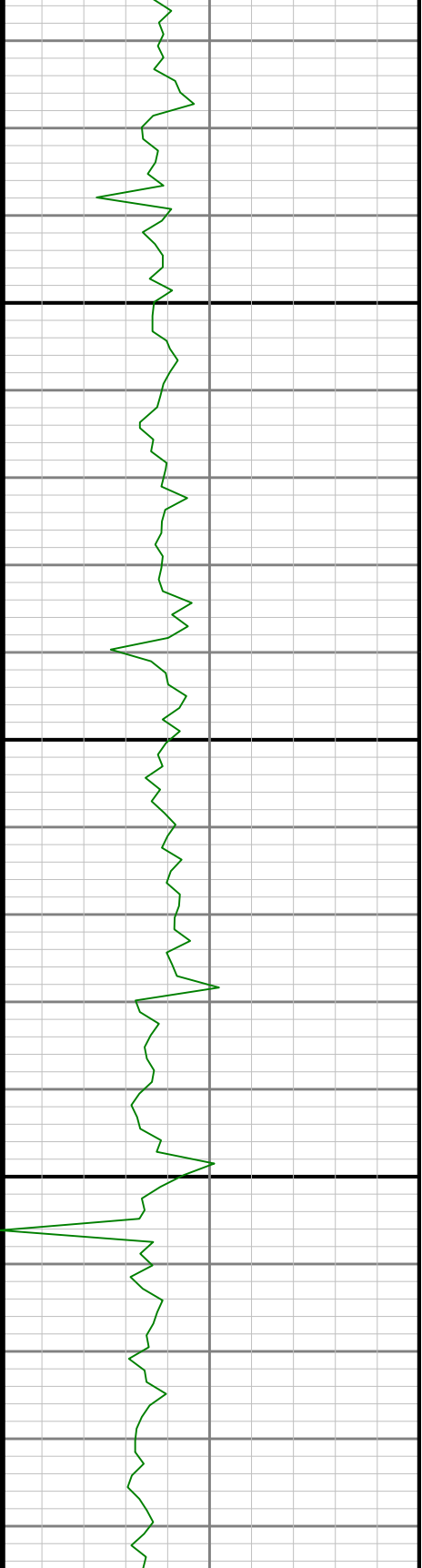


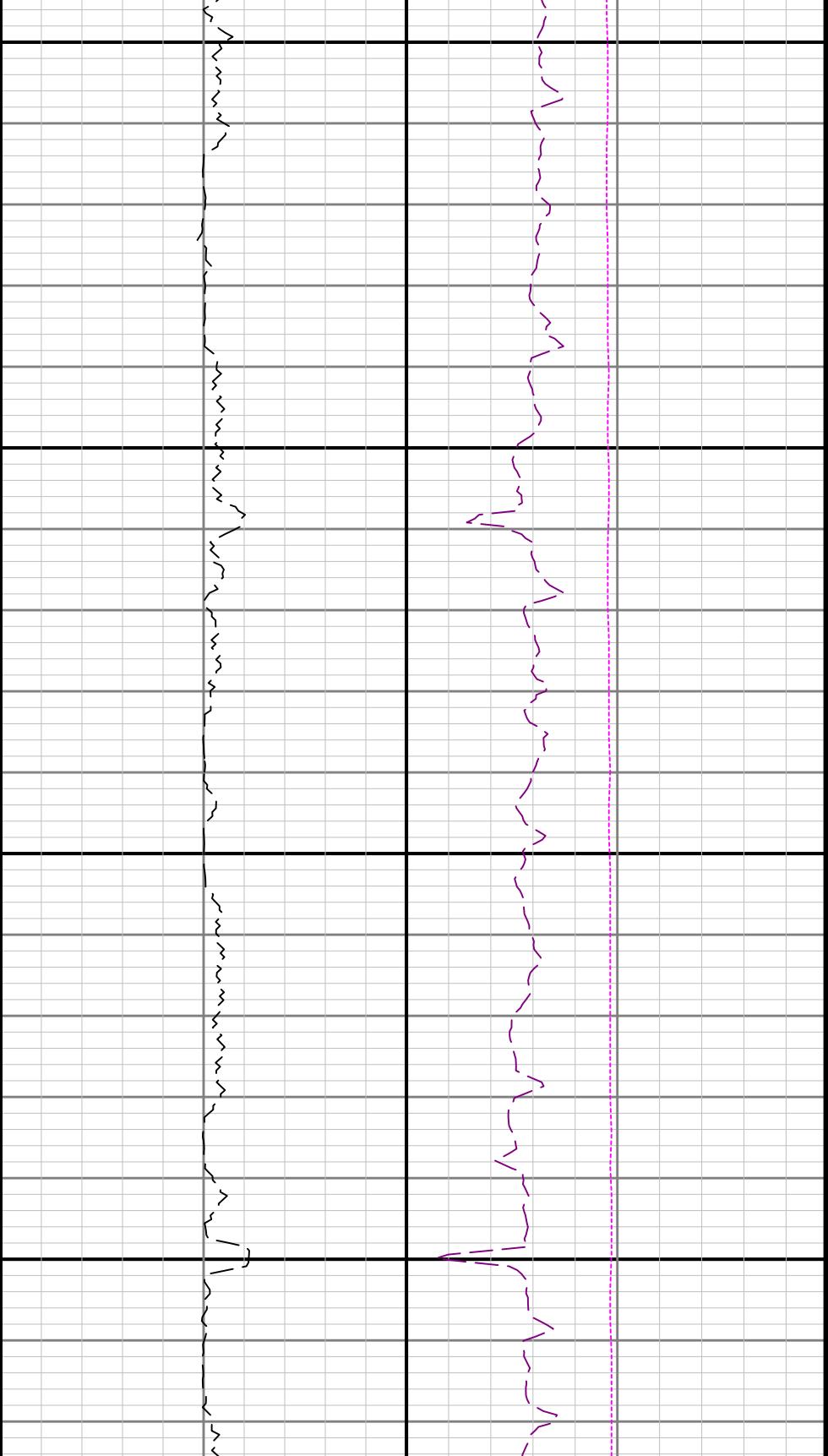




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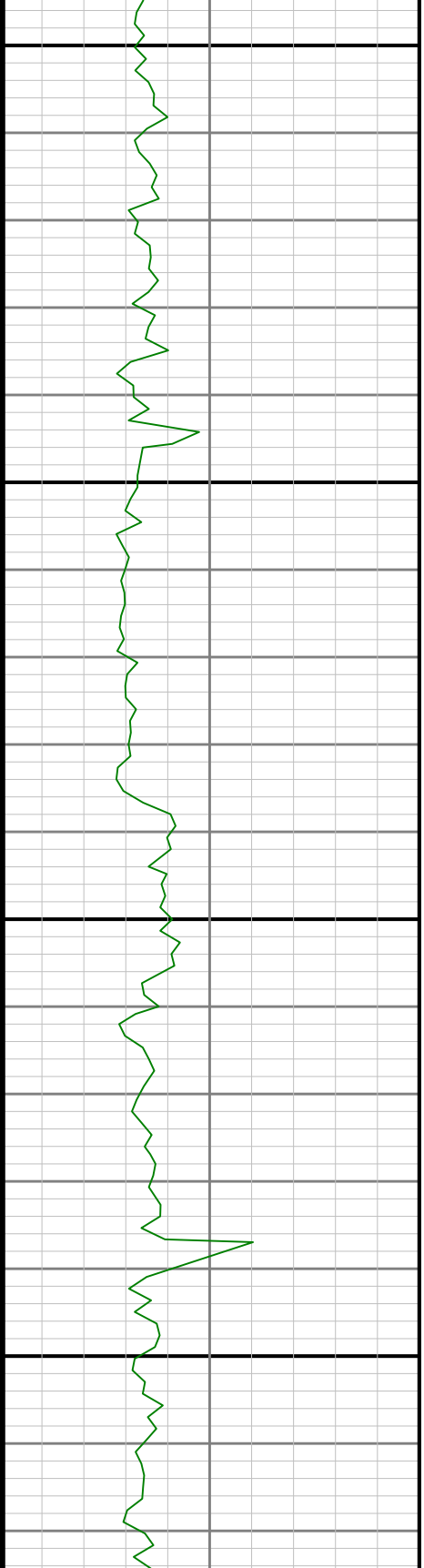
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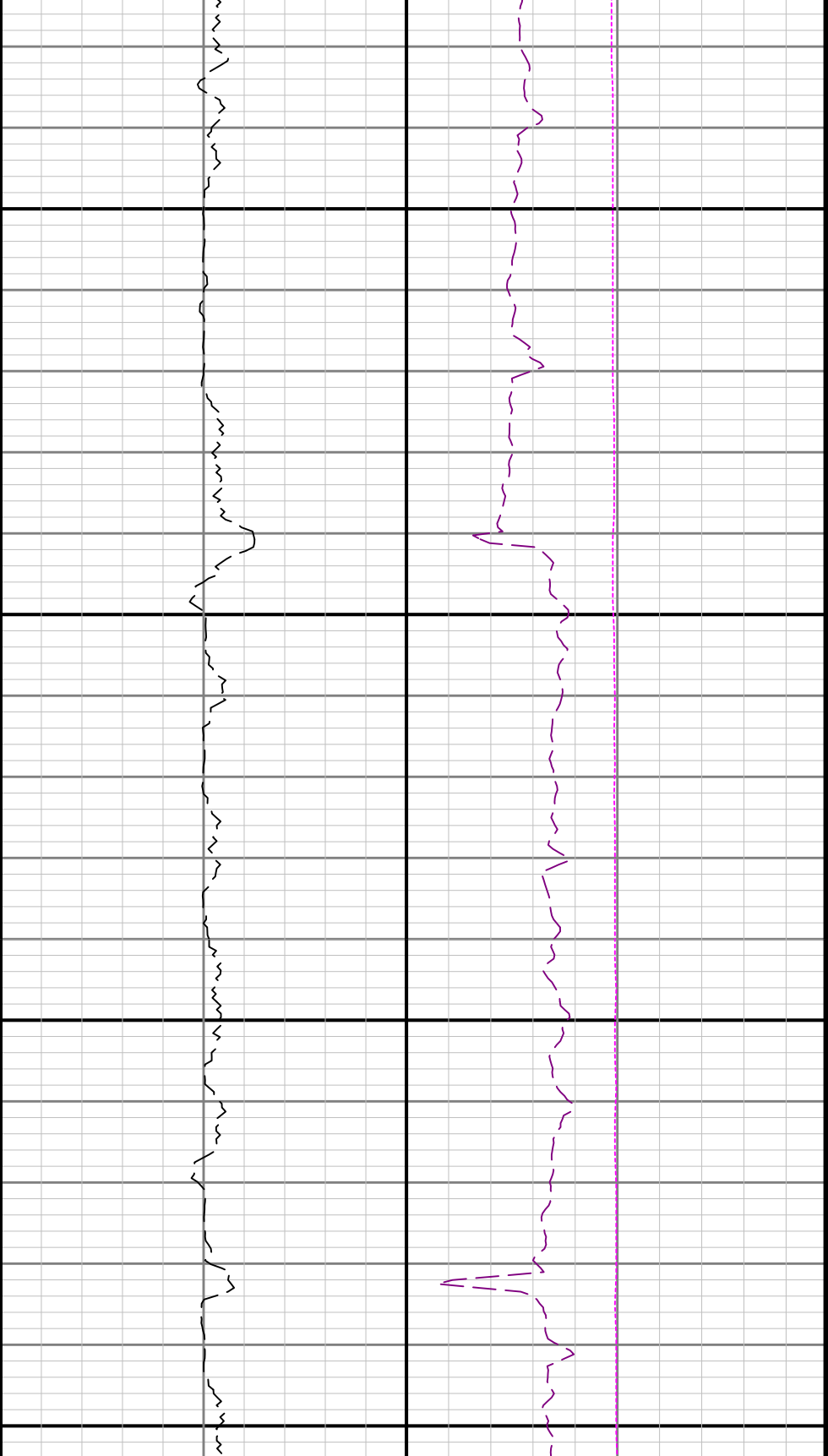




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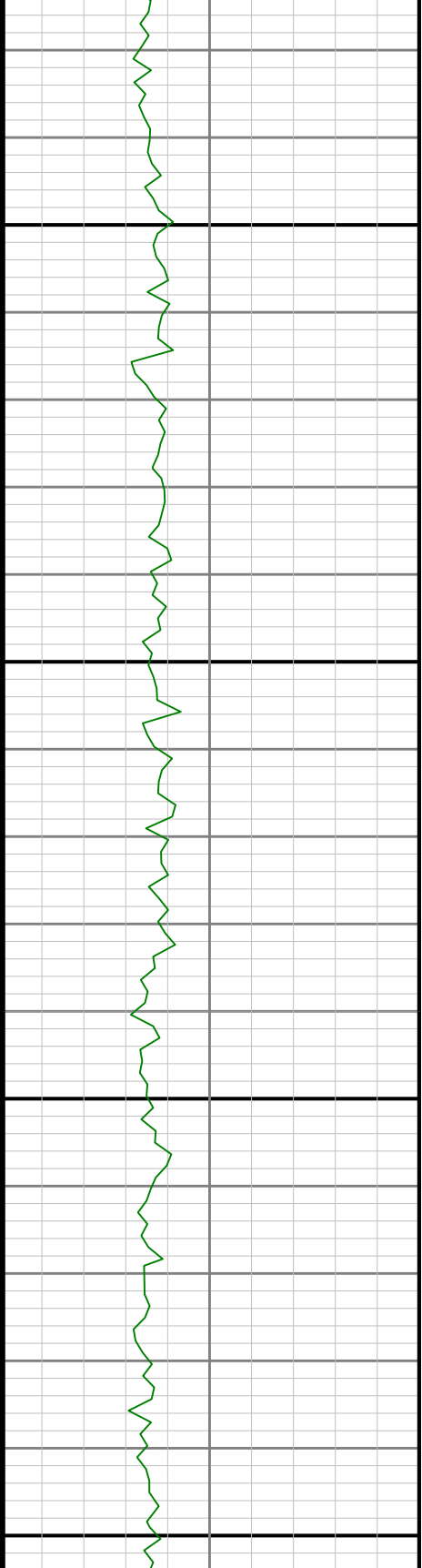
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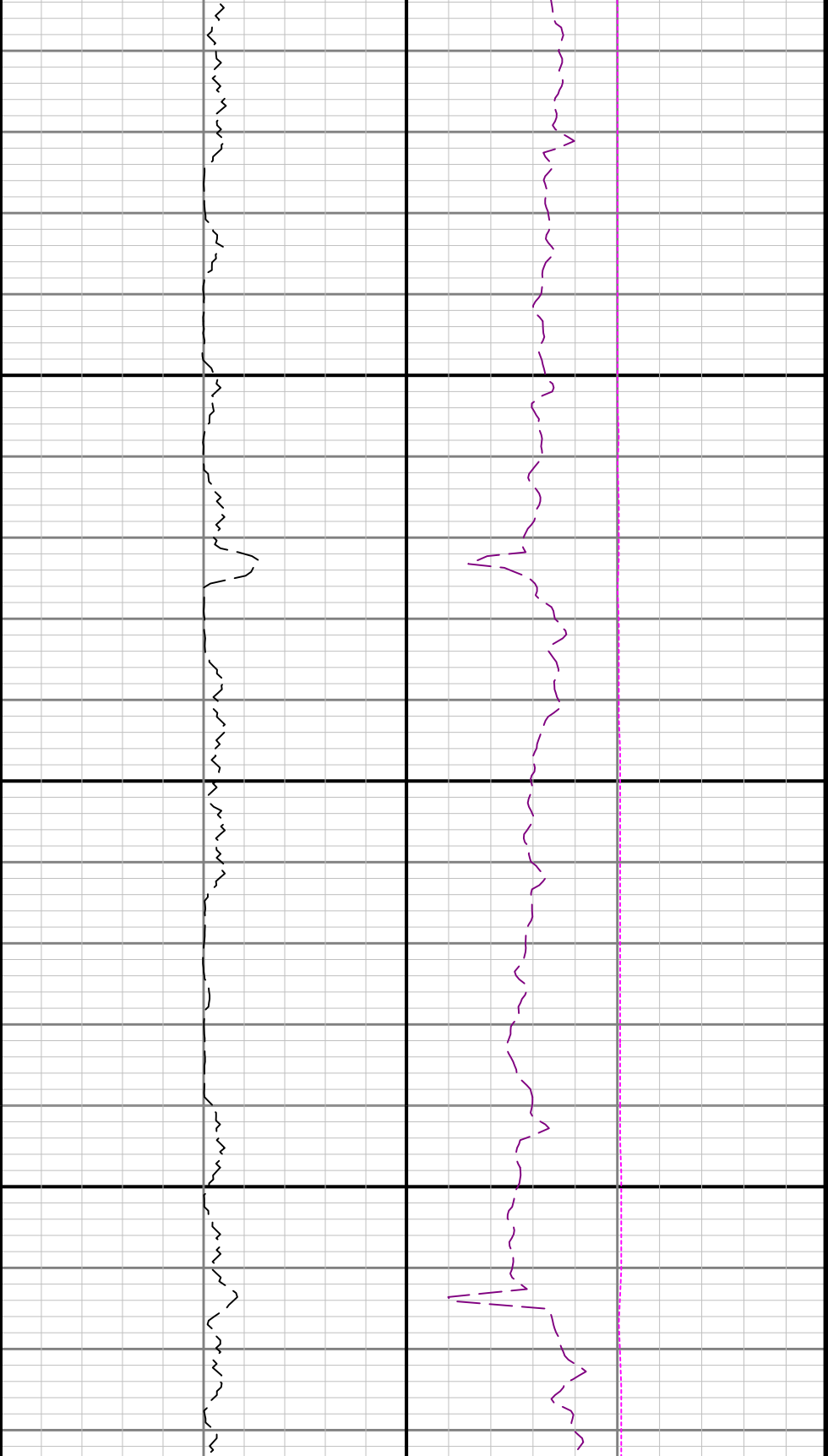




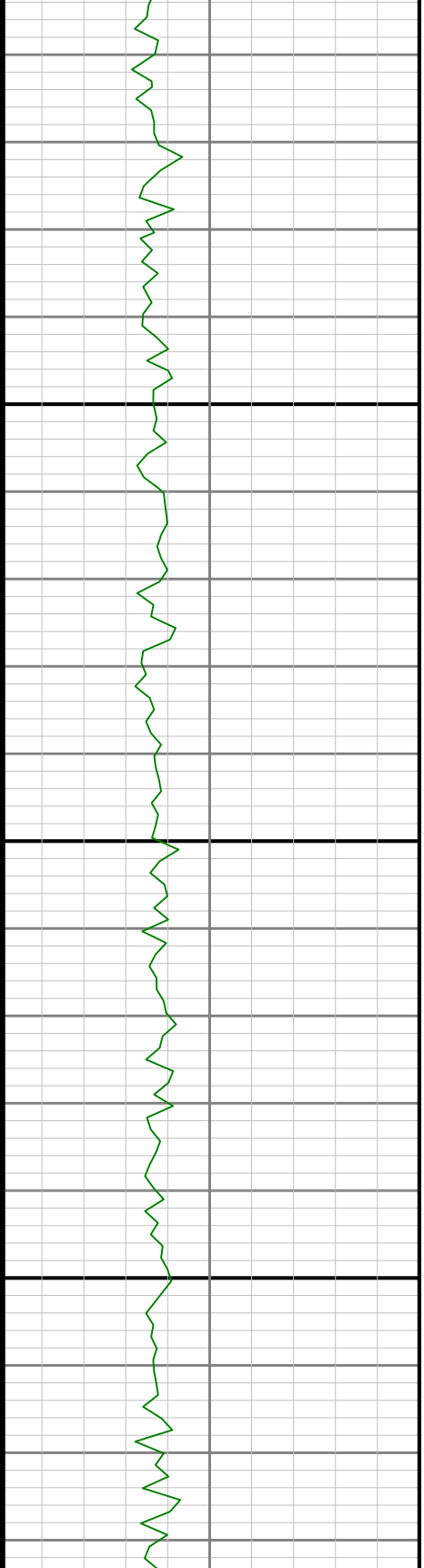
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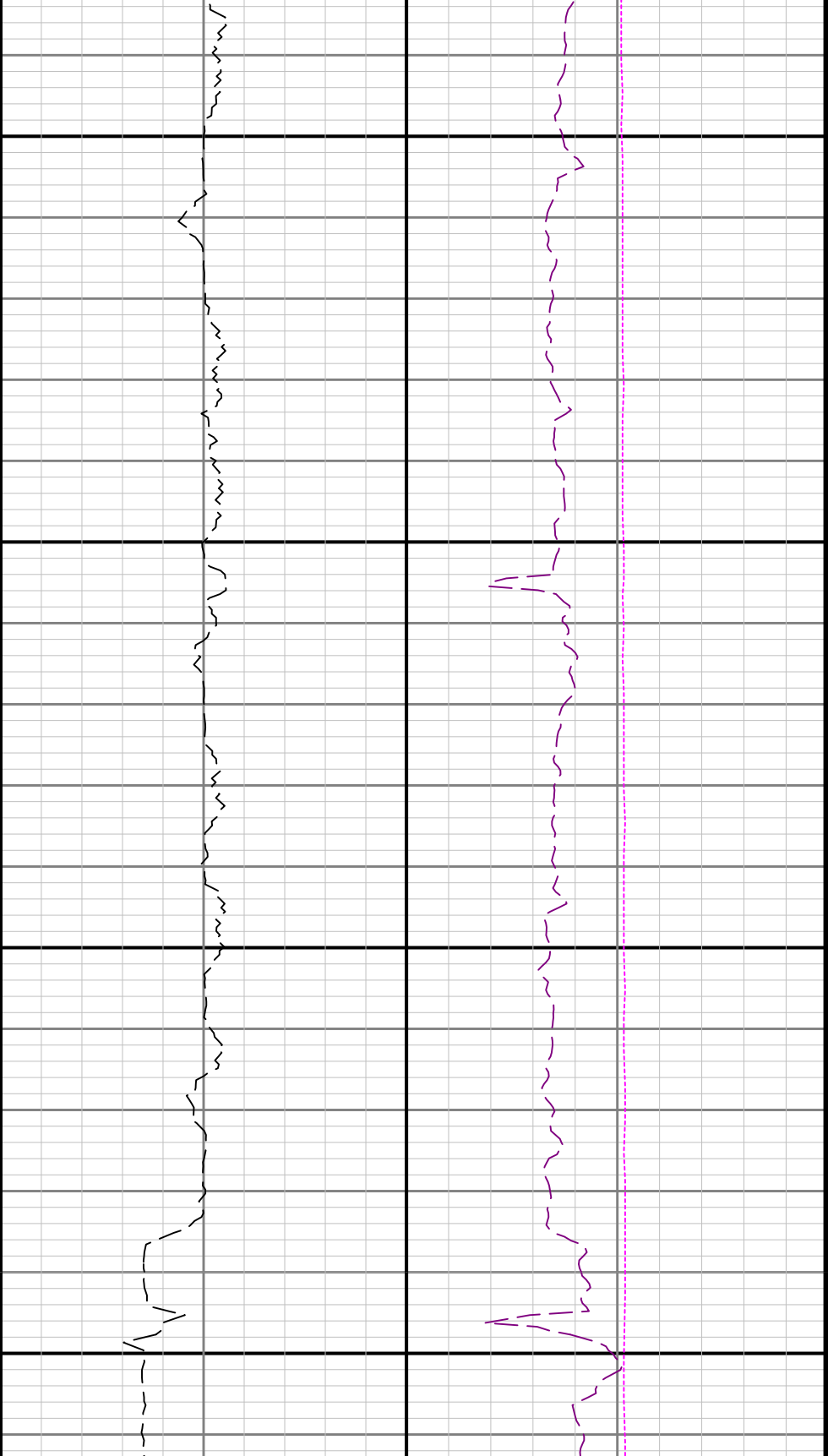
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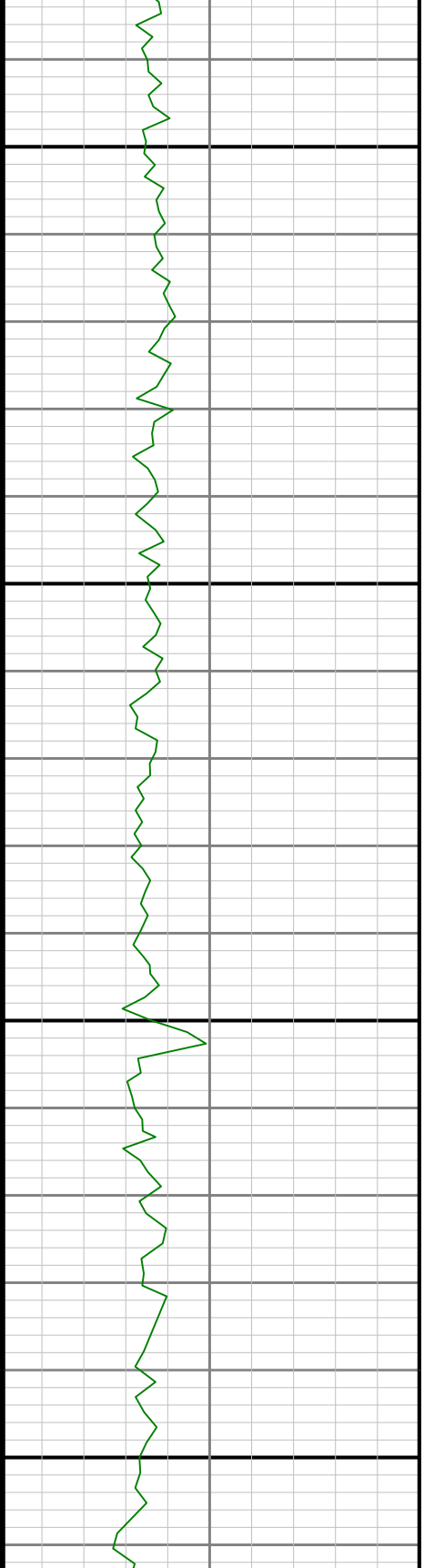
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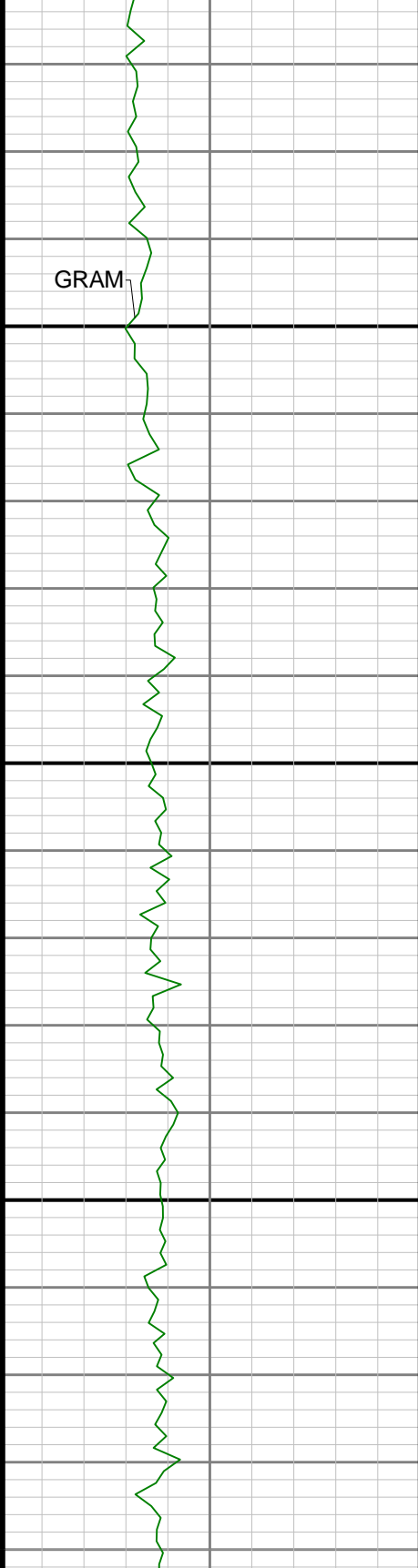




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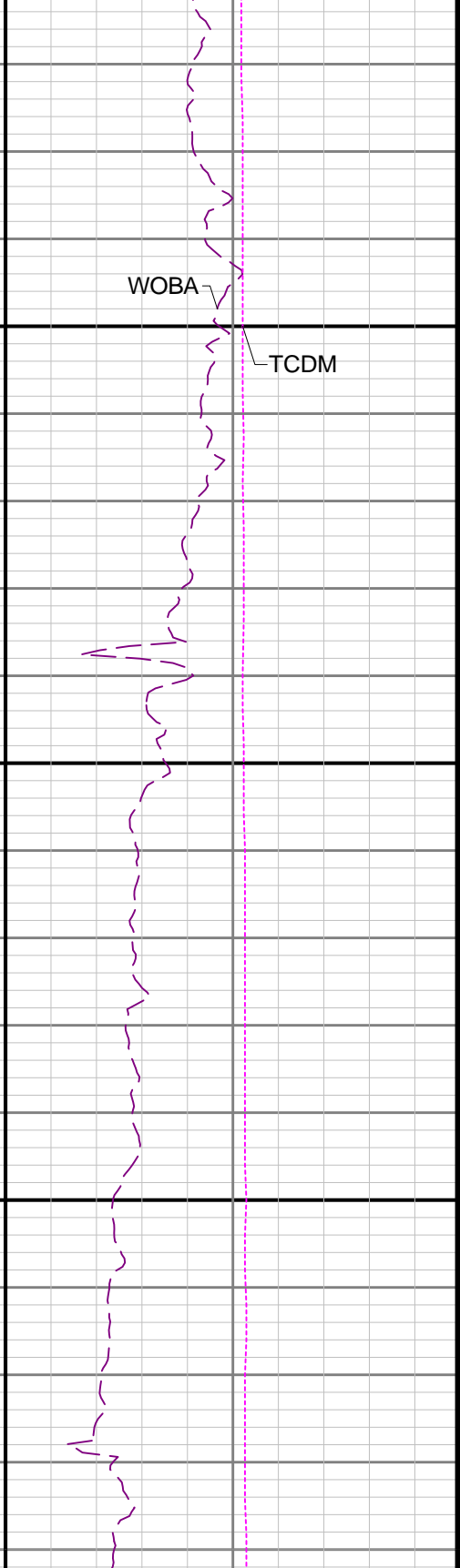
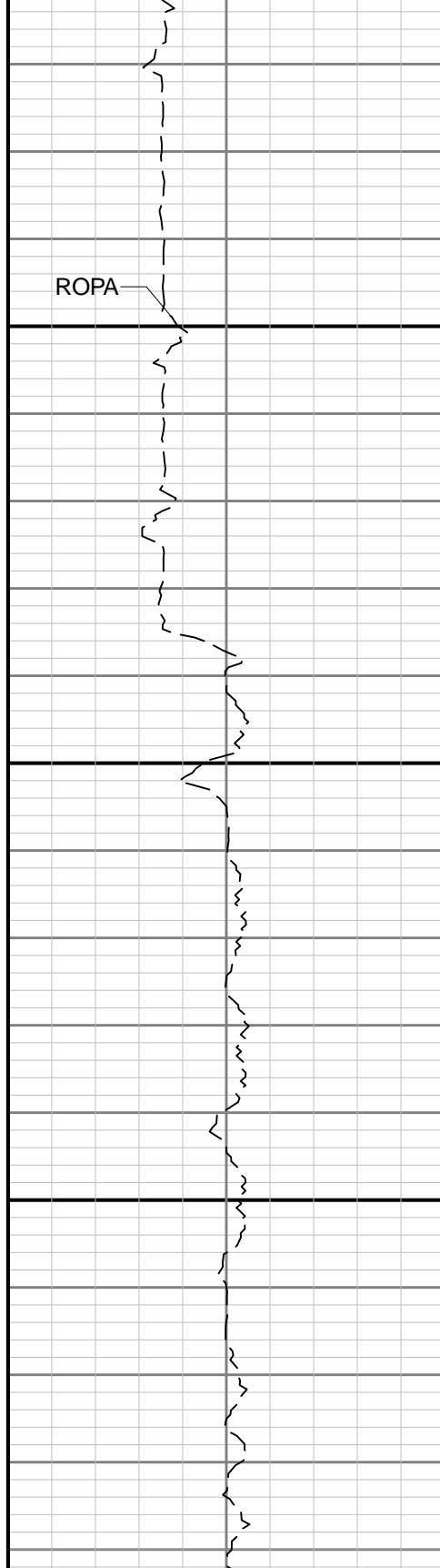
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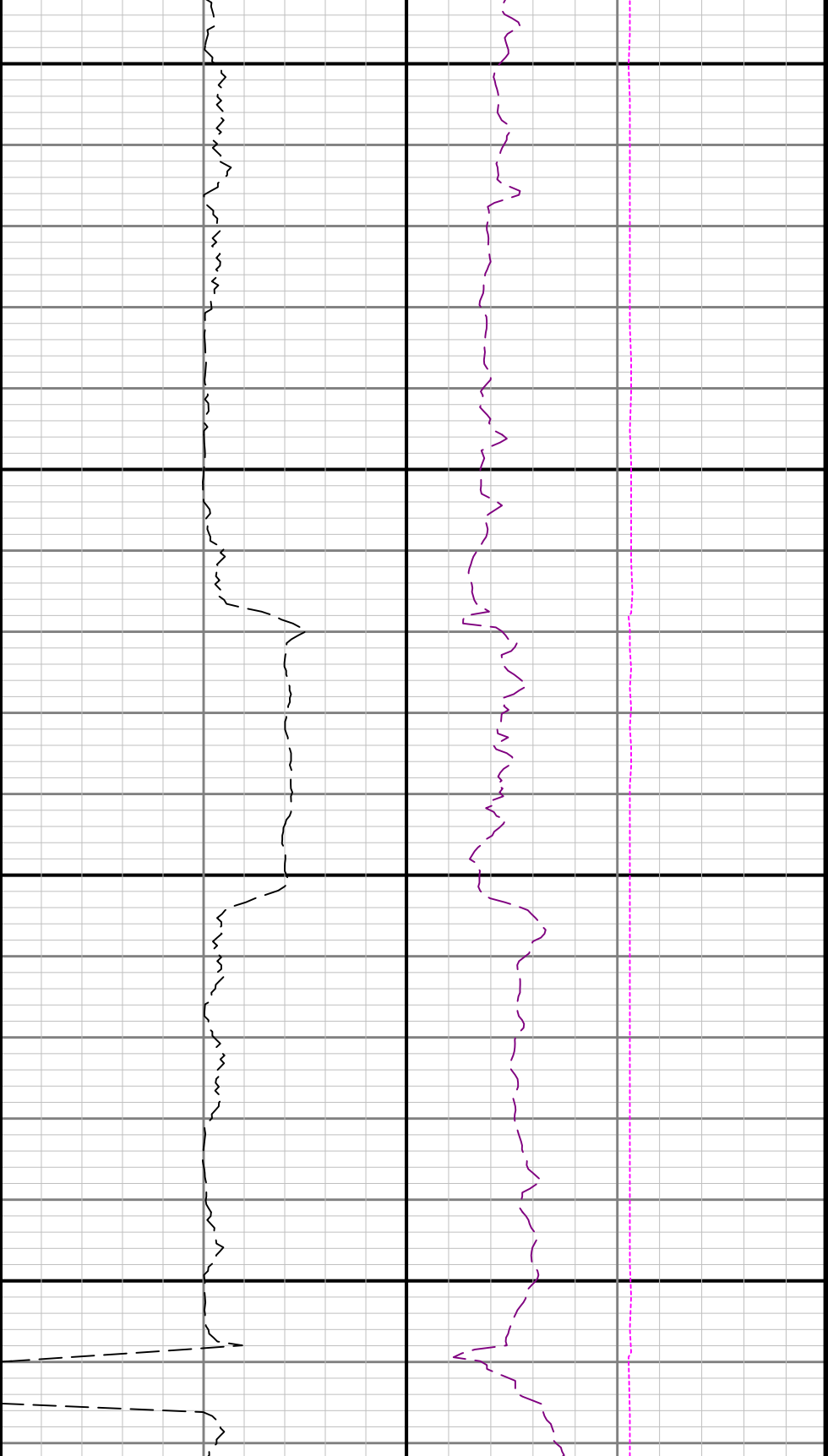




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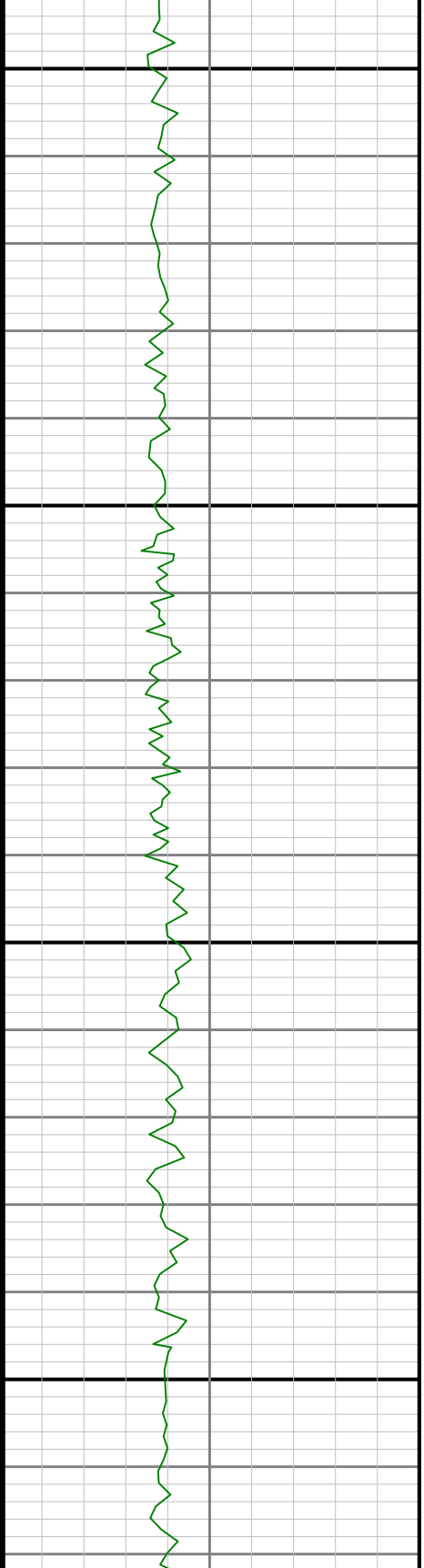
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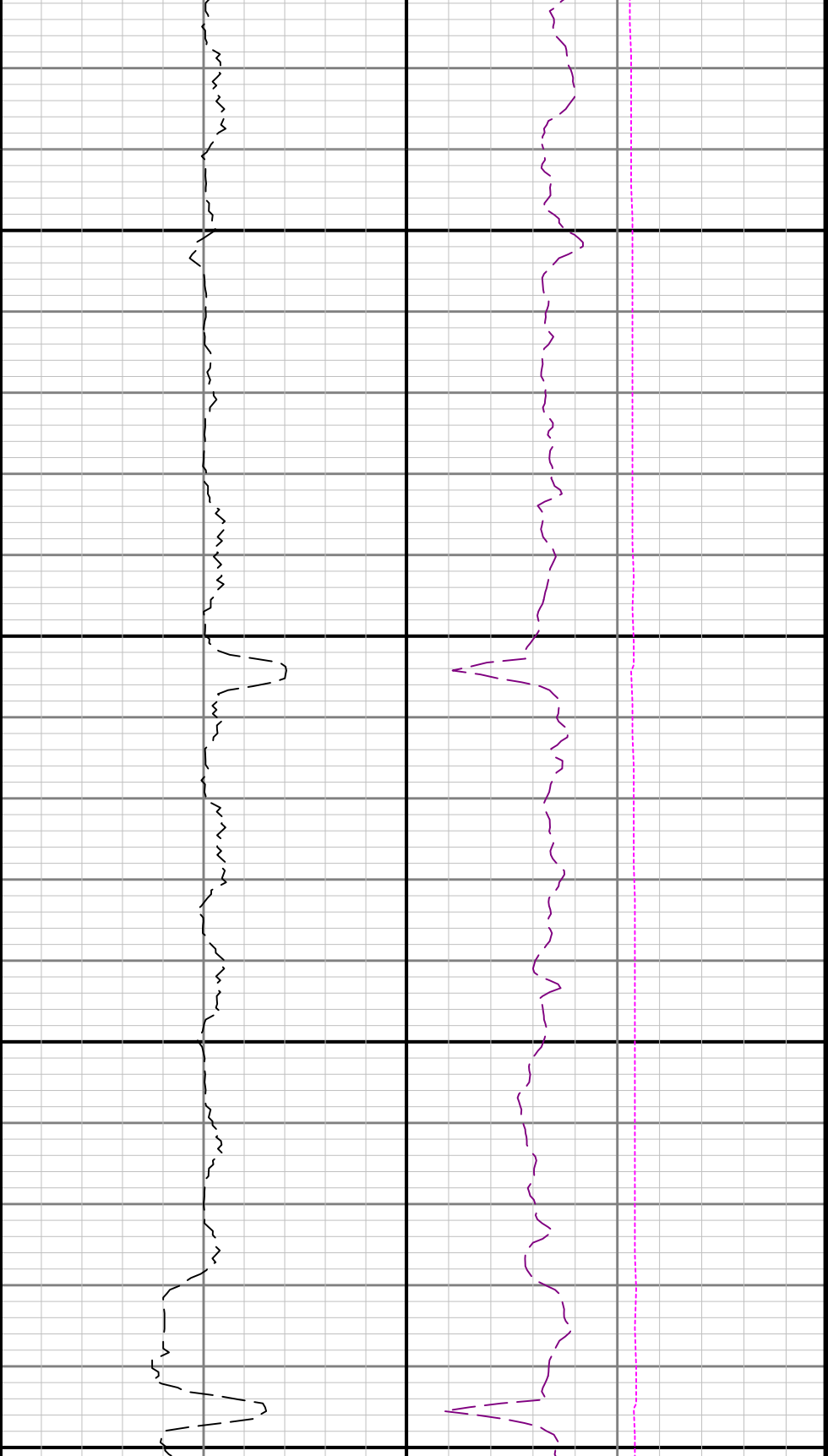




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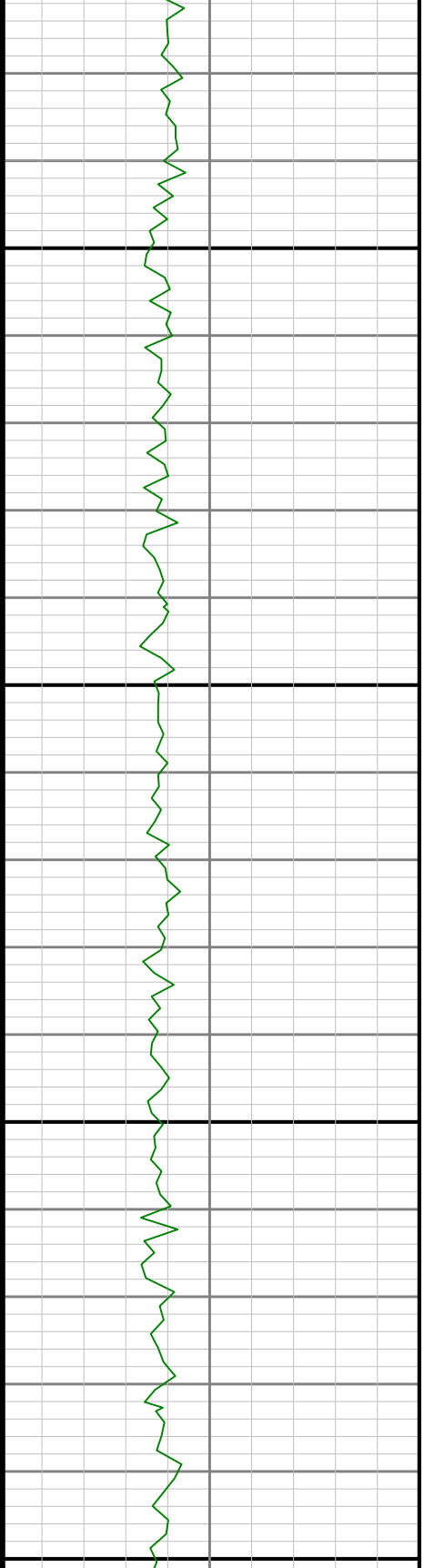
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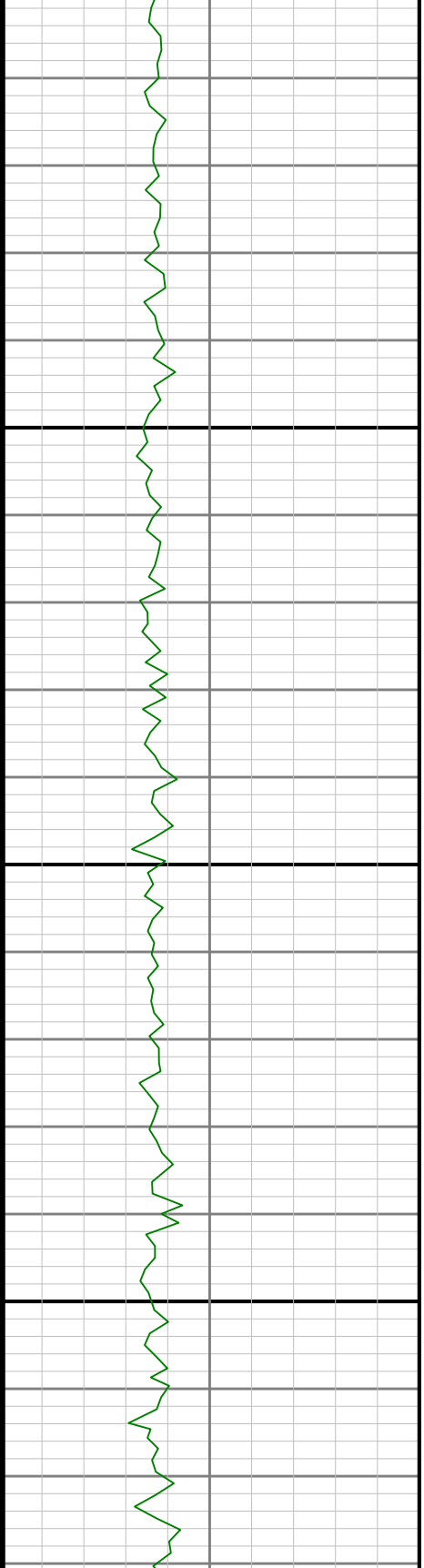
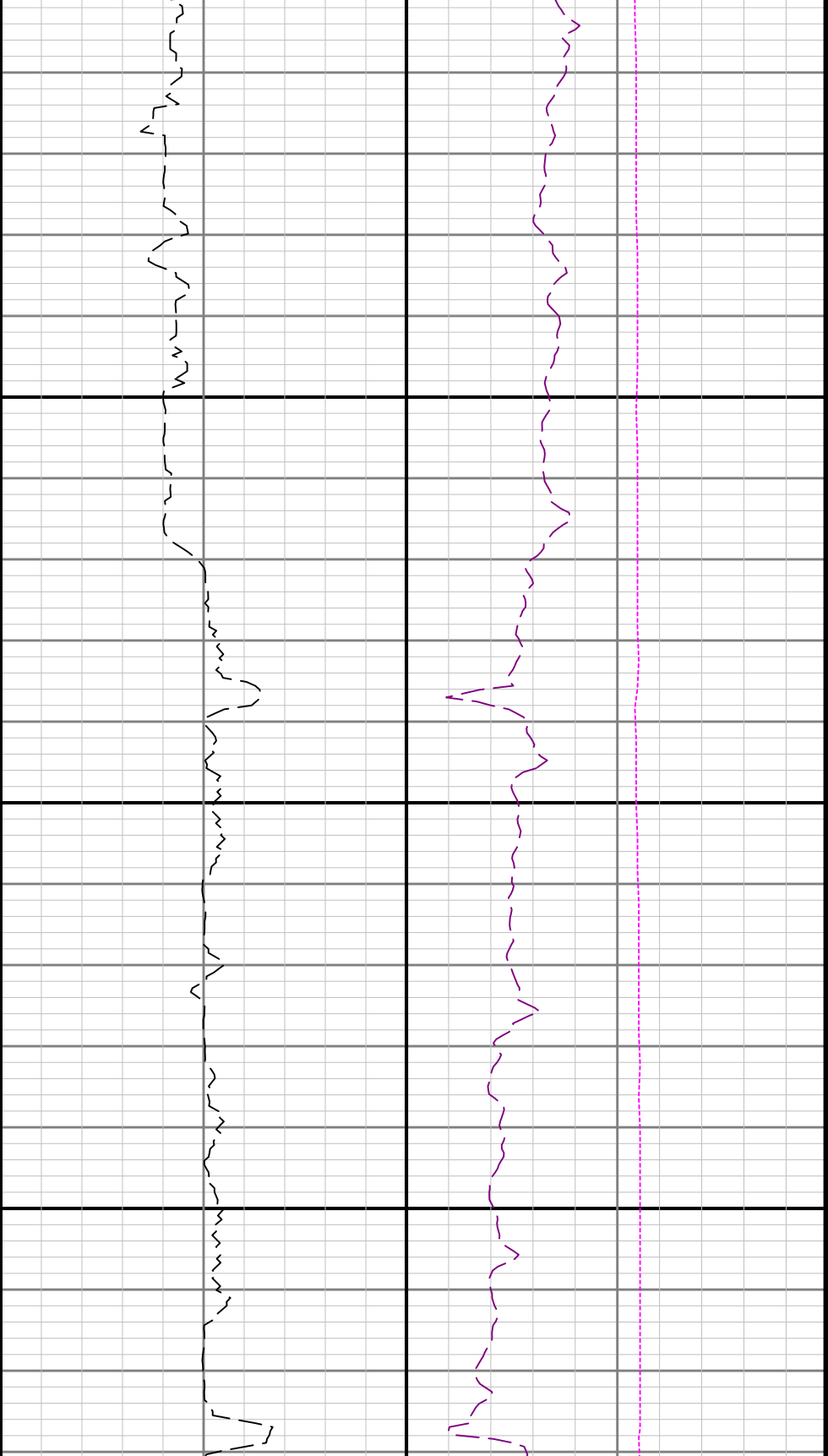


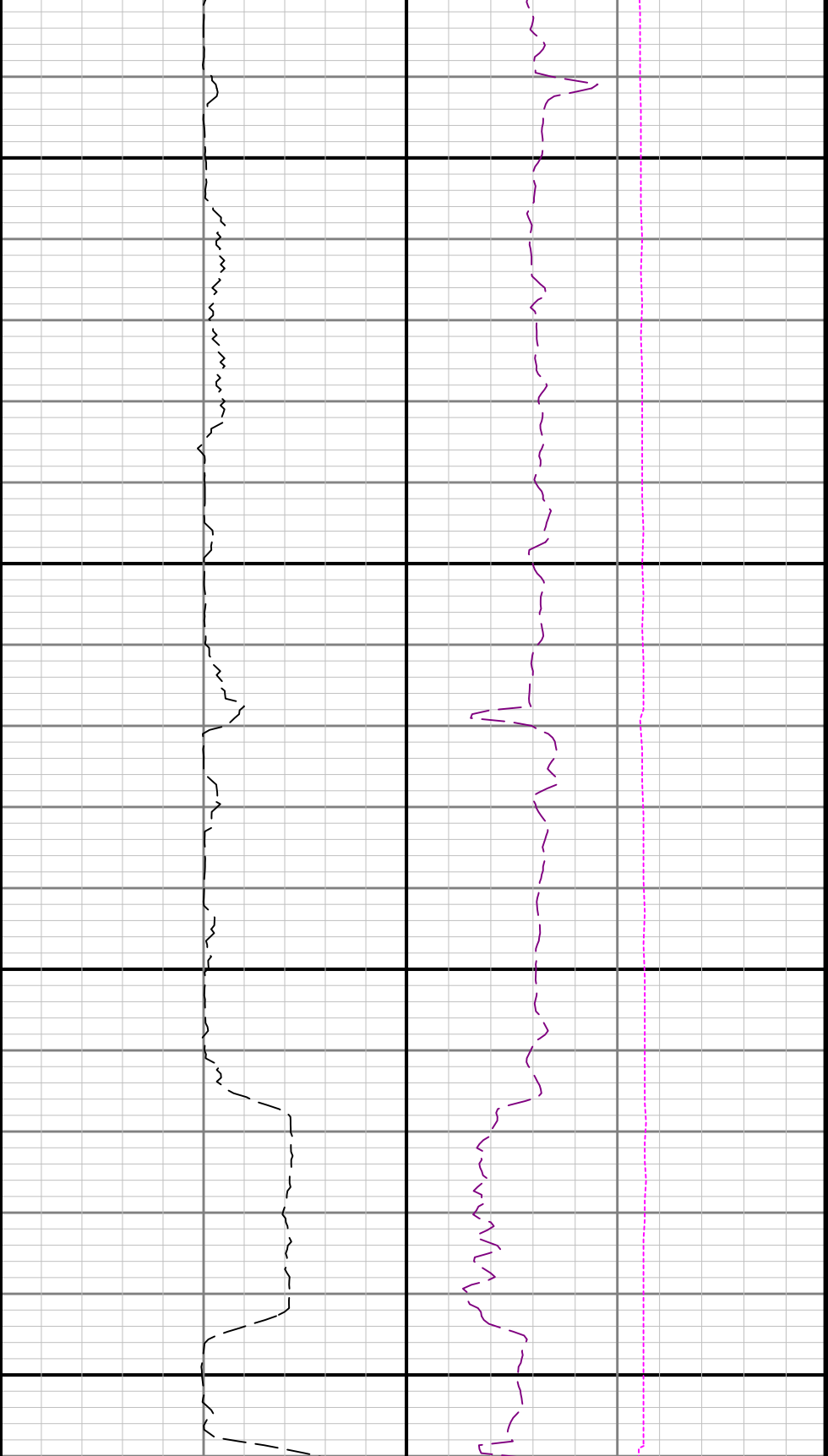


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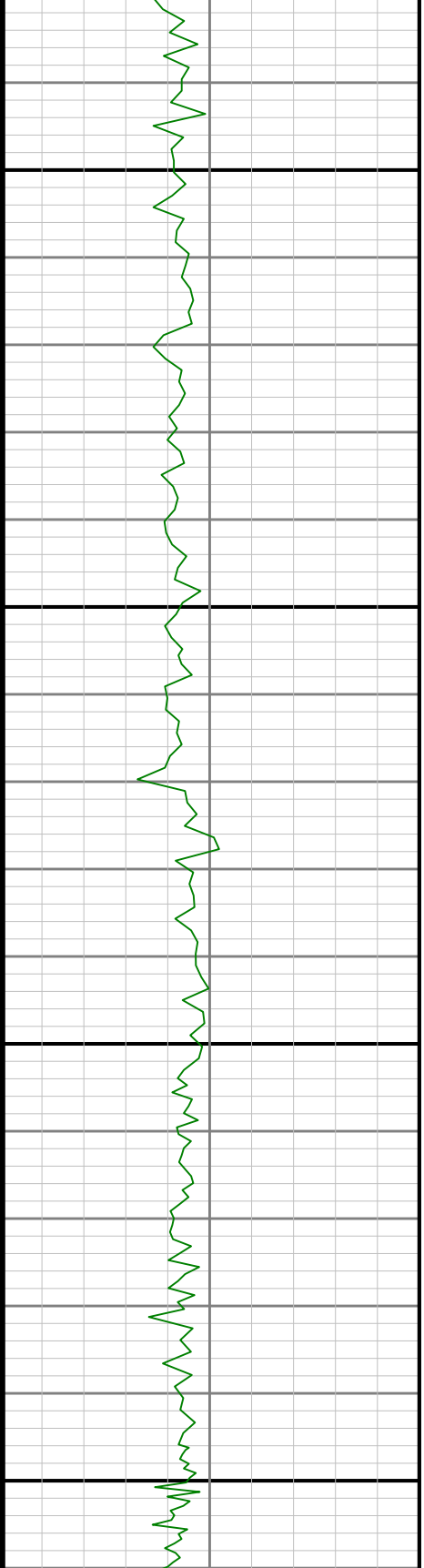


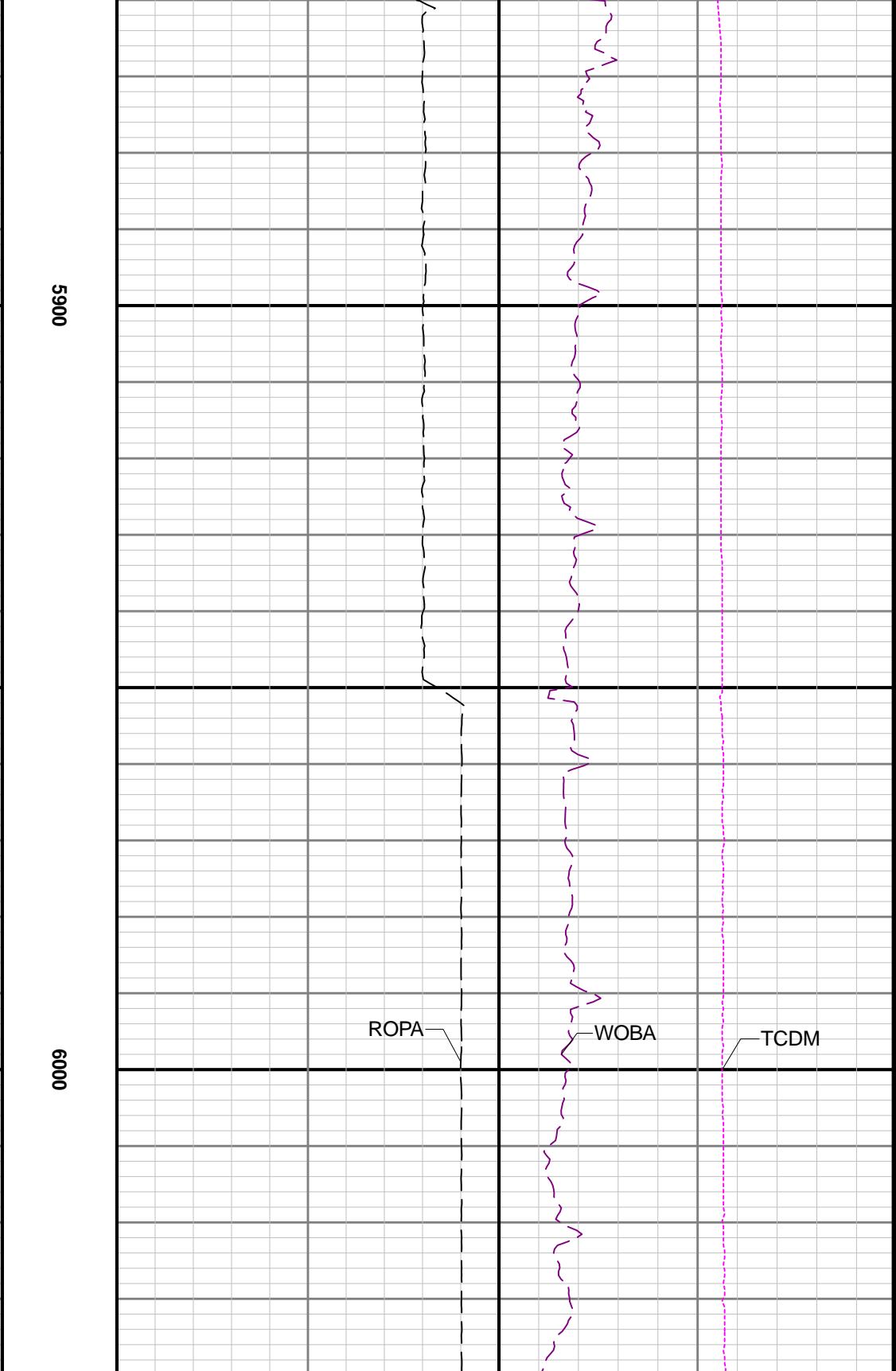
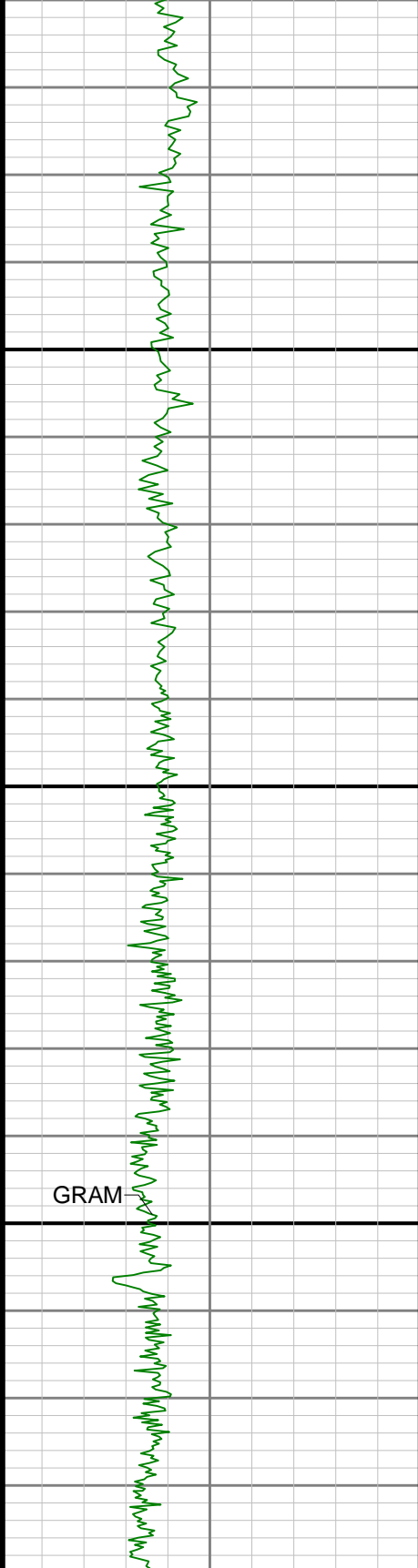


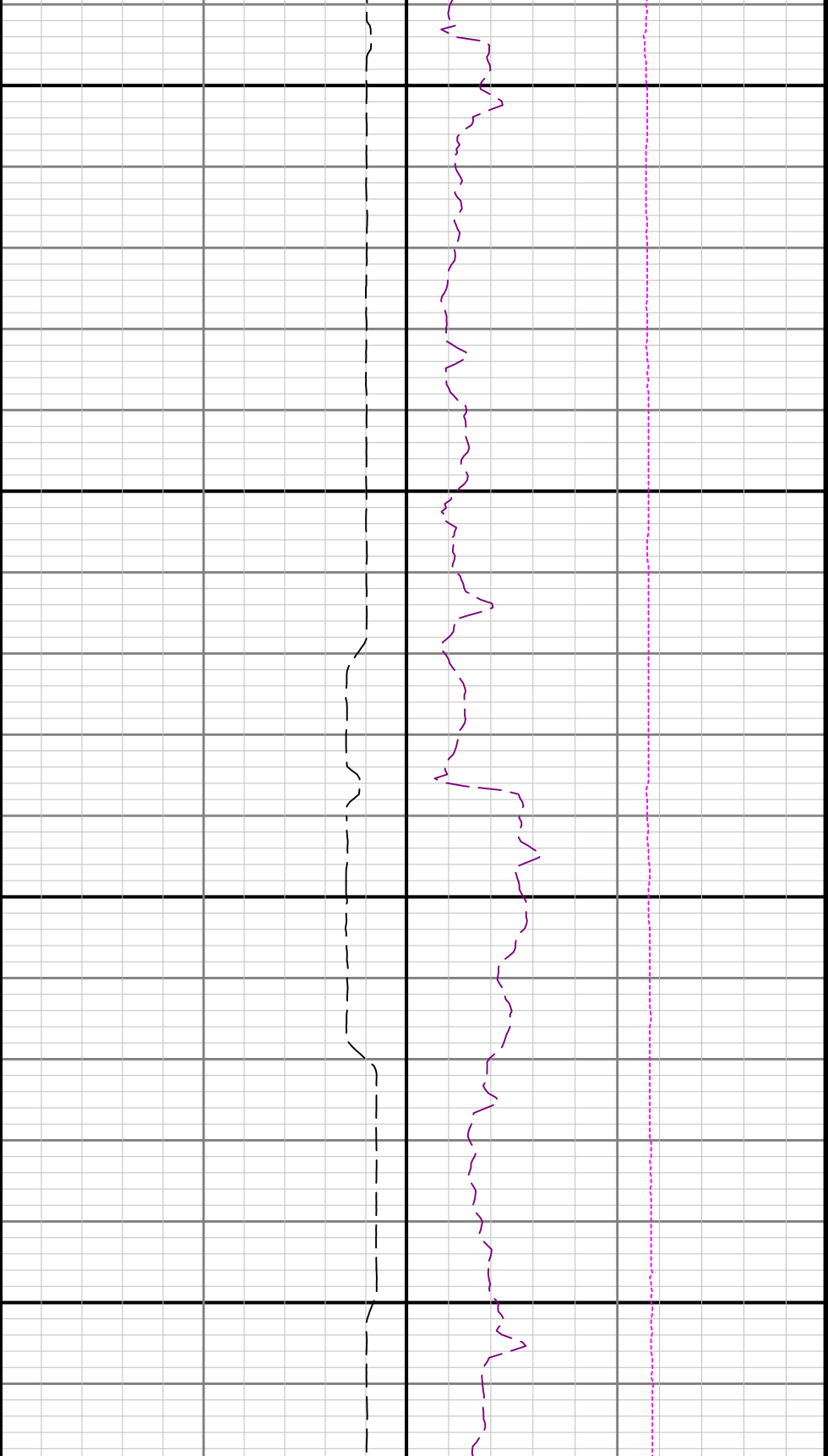


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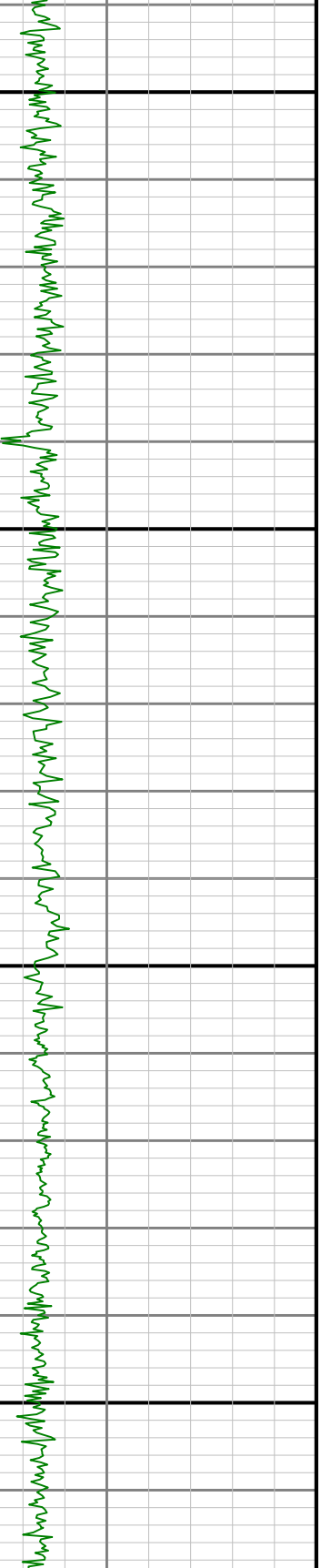


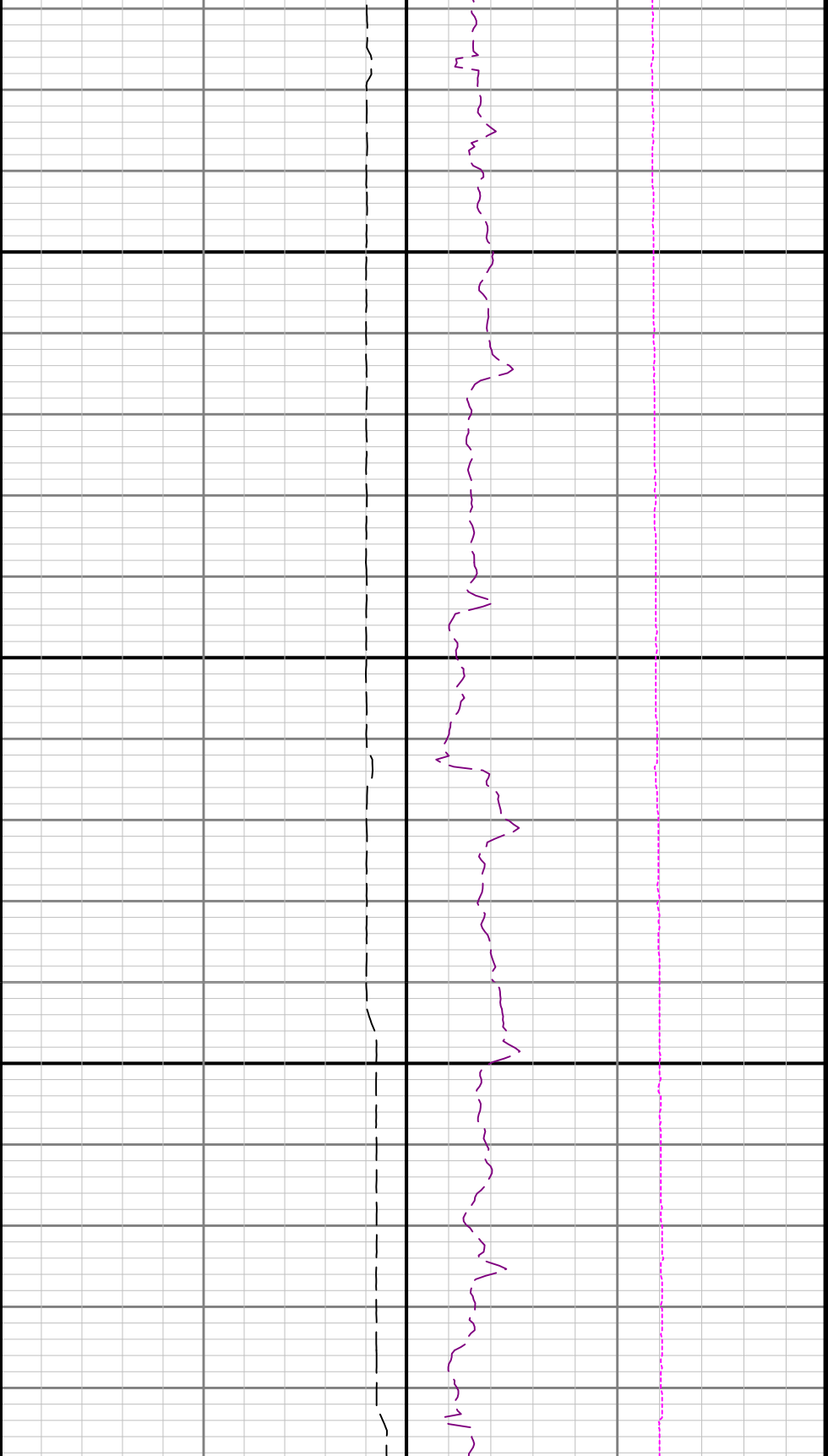




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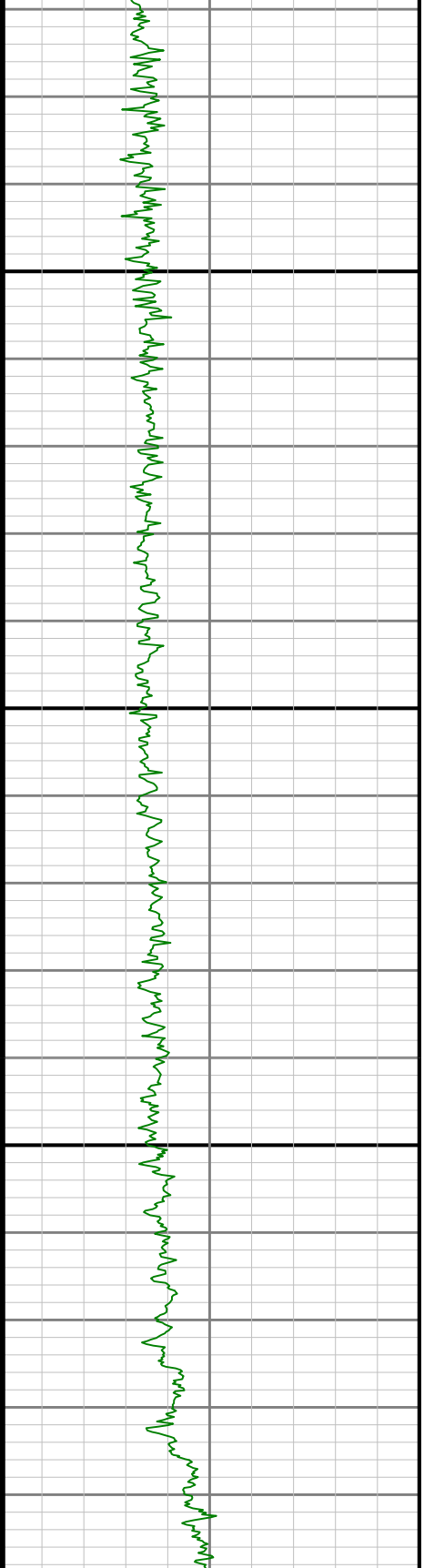
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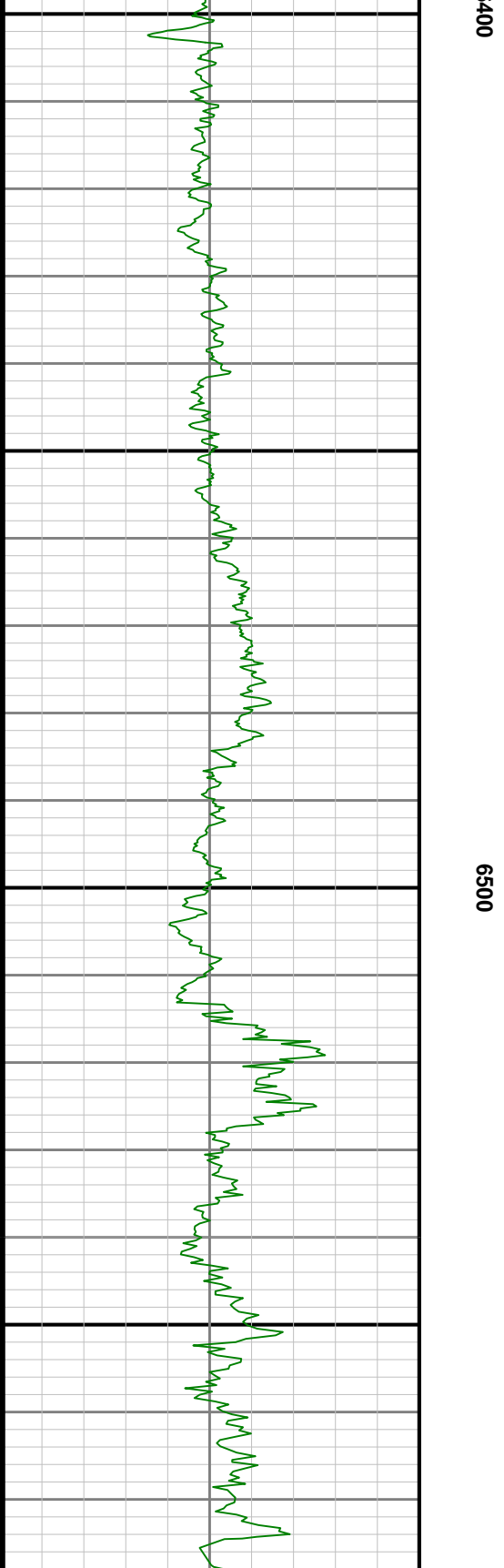
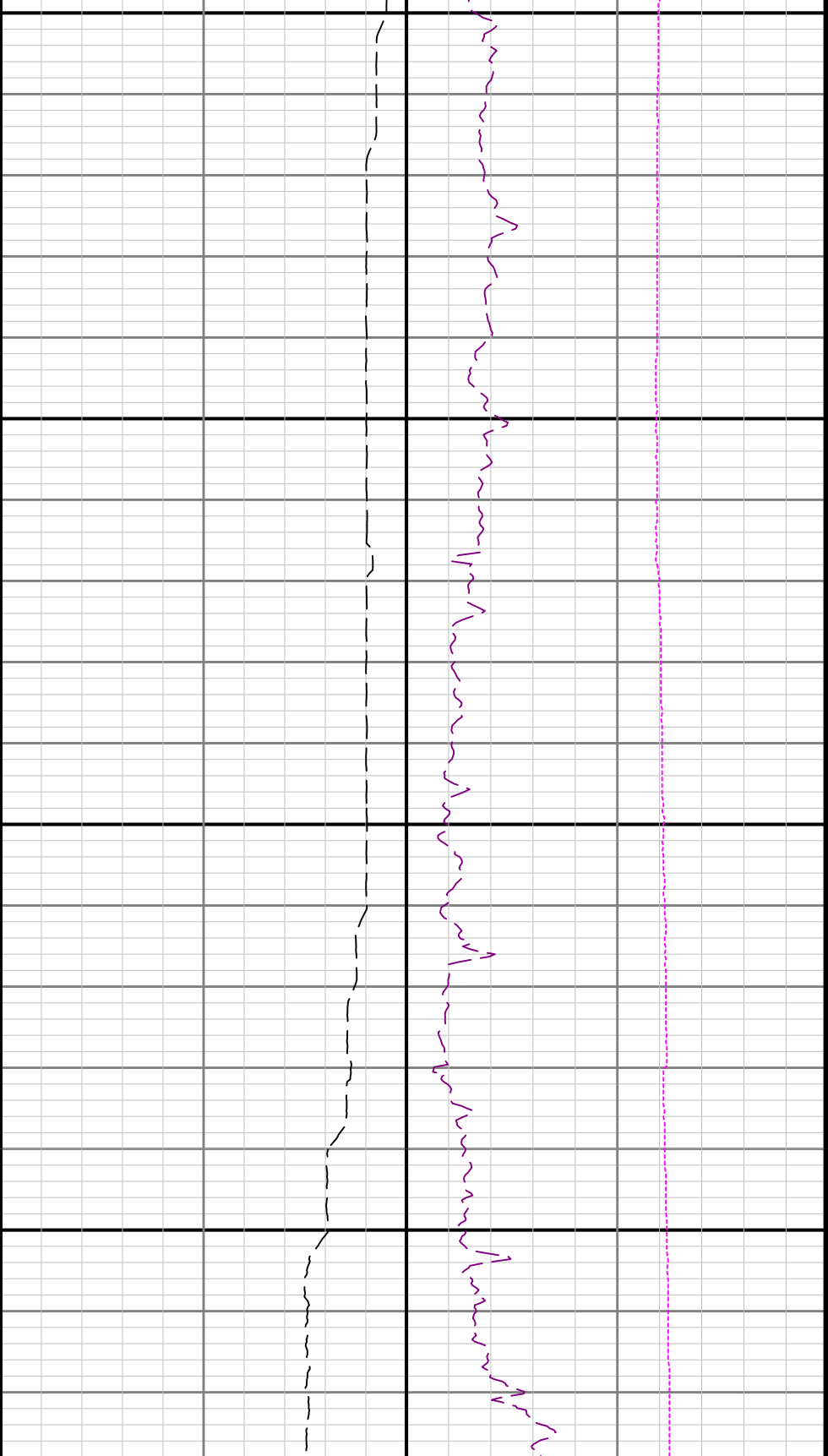


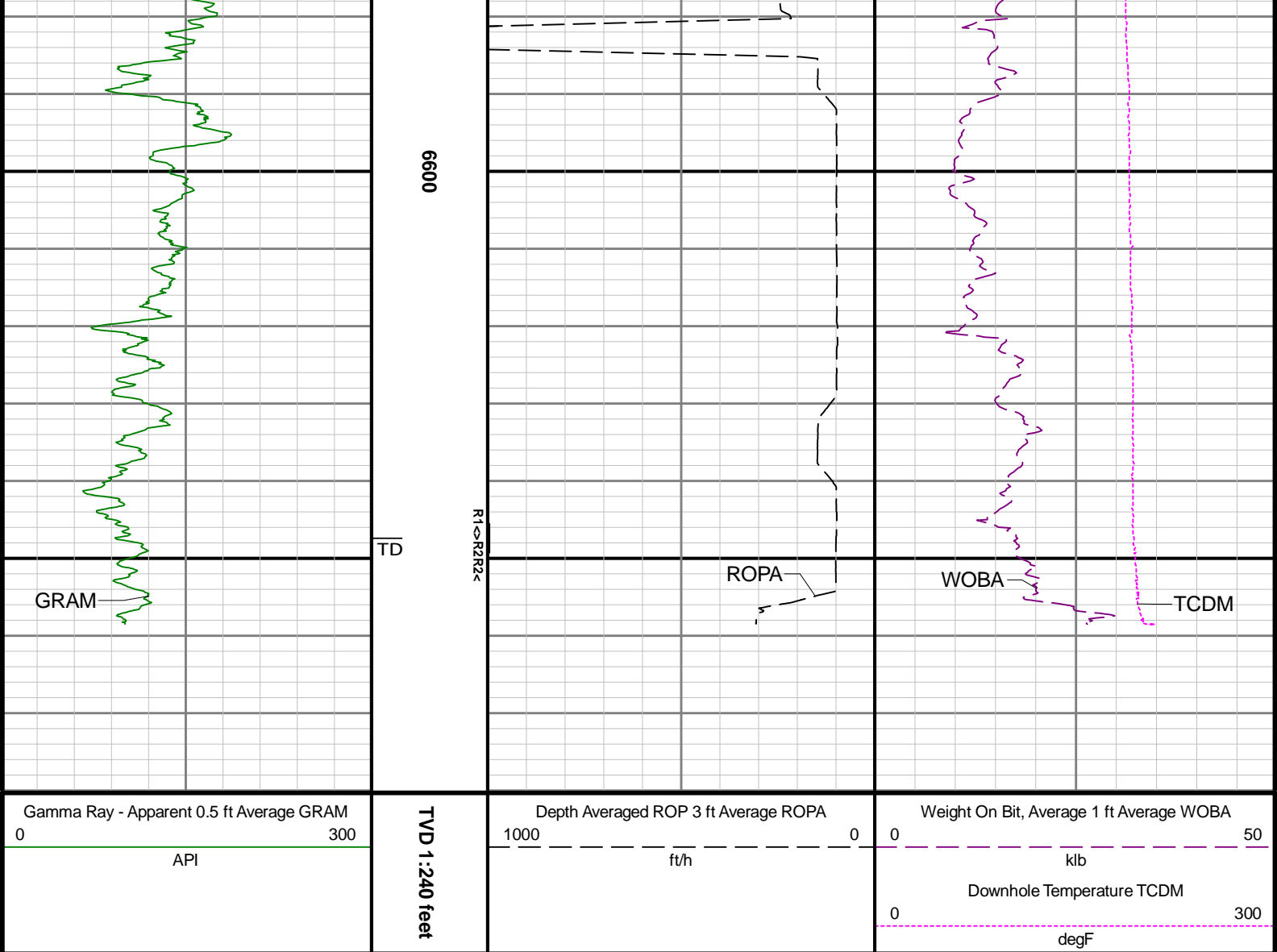


6300

6







Directional Survey Summary

| | | | |
|---------------------------------|-------------------|-----------------------------|--------------------|
| Latitude: | 40° 15' 39.096" N | Longitude: | 104° 30' 09.756" W |
| North Reference: | Grid | Drill Depth Zero: | Rig Floor |
| Vertical Datum is: | Mean Sea Level | Vertical Datum to DDZ: (ft) | 4775.00 |
| Vertical Section North: (ft) | 0.00 | Vertical Section East: (ft) | 0.00 |
| Vertical Section Azimuth: (deg) | 176.25 | | |
| Grid Convergence: (deg) | -0.64 | Magnetic Declination: (deg) | 7.91 |
| Total Correction: (deg) | 7.27 | TVD Calculation Method: | Minimum Curvature |
| Magnetic Correction: | Off | Local Magnetic Field: (nT) | 51790 |
| Local Magnetic Dip Angle: (deg) | 66.58 | Local Gravity Field: (m/s2) | 9.800 |

| 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 | -4775.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 80.00 | 0.33 | 300.37 | N/A | 0.12 | -0.20 | 80.00 | -4695.00 | -0.13 | 80.00 | 0.41 | 0.41 | -74.54 |
| | 173.00 | 0.52 | 329.70 | N/A | 0.62 | -0.64 | 173.00 | -4602.00 | -0.66 | 93.00 | 0.30 | 0.20 | 31.54 |
| | 263.00 | 0.19 | 164.34 | N/A | 0.83 | -0.81 | 263.00 | -4512.00 | -0.88 | 90.00 | 0.78 | -0.37 | -183.79 |

| | | | | | | | | | | | | | |
|--|---------|-------|--------|-------|--------|--------|---------|----------|---------|--------|------|-------|---------|
| | 358.00 | 0.41 | 275.51 | N/A | 0.71 | -1.10 | 358.00 | -4417.00 | -0.78 | 95.00 | 0.54 | 0.23 | 117.02 |
| | 452.00 | 0.34 | 151.39 | N/A | 0.49 | -1.31 | 451.99 | -4323.01 | -0.58 | 94.00 | 0.71 | -0.07 | -132.04 |
| | 547.00 | 0.28 | 73.45 | N/A | 0.31 | -0.95 | 546.99 | -4228.01 | -0.37 | 95.00 | 0.41 | -0.06 | -82.04 |
| | 641.00 | 0.30 | 15.71 | N/A | 0.61 | -0.66 | 640.99 | -4134.01 | -0.66 | 94.00 | 0.30 | 0.02 | -61.43 |
| | 735.00 | 0.18 | 21.34 | N/A | 0.99 | -0.54 | 734.99 | -4040.01 | -1.02 | 94.00 | 0.13 | -0.13 | 5.99 |
| | 830.00 | 0.50 | 246.54 | N/A | 0.96 | -0.87 | 829.99 | -3945.01 | -1.02 | 95.00 | 0.67 | 0.34 | -141.89 |
| | 924.00 | 0.33 | 315.90 | N/A | 0.99 | -1.43 | 923.99 | -3851.01 | -1.09 | 94.00 | 0.52 | -0.18 | 73.79 |
| | 1018.00 | 0.52 | 296.28 | N/A | 1.38 | -2.00 | 1017.99 | -3757.01 | -1.51 | 94.00 | 0.25 | 0.20 | -20.87 |
| | 1113.00 | 0.27 | 285.49 | N/A | 1.63 | -2.60 | 1112.98 | -3662.02 | -1.79 | 95.00 | 0.27 | -0.26 | -11.36 |
| | 1207.00 | 0.22 | 302.90 | N/A | 1.79 | -2.97 | 1206.98 | -3568.02 | -1.98 | 94.00 | 0.09 | -0.05 | 18.52 |
| | 1301.00 | 0.47 | 40.62 | N/A | 2.18 | -2.87 | 1300.98 | -3474.02 | -2.36 | 94.00 | 0.58 | 0.27 | 103.96 |
| | 1396.00 | 0.26 | 40.08 | N/A | 2.64 | -2.48 | 1395.98 | -3379.02 | -2.79 | 95.00 | 0.22 | -0.22 | -0.57 |
| | 1490.00 | 0.15 | 33.14 | N/A | 2.90 | -2.27 | 1489.98 | -3285.02 | -3.05 | 94.00 | 0.12 | -0.12 | -7.38 |
| | 1584.00 | 0.25 | 106.88 | N/A | 2.95 | -2.01 | 1583.98 | -3191.02 | -3.07 | 94.00 | 0.27 | 0.11 | 78.45 |
| | 1679.00 | 0.57 | 111.26 | N/A | 2.71 | -1.37 | 1678.98 | -3096.02 | -2.80 | 95.00 | 0.34 | 0.34 | 4.61 |
| | 1773.00 | 0.42 | 83.99 | N/A | 2.58 | -0.59 | 1772.97 | -3002.03 | -2.61 | 94.00 | 0.29 | -0.16 | -29.01 |
| | 1867.00 | 0.34 | 9.72 | N/A | 2.89 | -0.20 | 1866.97 | -2908.03 | -2.90 | 94.00 | 0.49 | -0.09 | -79.01 |
| | 1927.00 | 0.49 | 339.08 | N/A | 3.31 | -0.26 | 1926.97 | -2848.03 | -3.32 | 60.00 | 0.44 | 0.25 | -51.07 |
| | 1983.00 | 0.42 | 302.01 | 101.4 | 3.64 | -0.52 | 1982.97 | -2792.03 | -3.67 | 56.00 | 0.53 | -0.12 | -66.20 |
| | 2078.00 | 0.09 | 198.02 | 104.1 | 3.75 | -0.84 | 2077.97 | -2697.03 | -3.80 | 95.00 | 0.47 | -0.35 | -109.46 |
| | 2173.00 | 0.03 | 58.65 | 109.5 | 3.70 | -0.84 | 2172.97 | -2602.03 | -3.74 | 95.00 | 0.12 | -0.06 | -146.71 |
| | 2267.00 | 1.92 | 33.32 | 112.2 | 5.02 | 0.04 | 2266.95 | -2508.05 | -5.01 | 94.00 | 2.01 | 2.01 | -26.95 |
| | 2361.00 | 3.85 | 35.50 | 112.2 | 8.91 | 2.74 | 2360.83 | -2414.17 | -8.71 | 94.00 | 2.06 | 2.05 | 2.32 |
| | 2456.00 | 4.81 | 34.98 | 114.9 | 14.77 | 6.88 | 2455.55 | -2319.45 | -14.29 | 95.00 | 1.01 | 1.01 | -0.55 |
| | 2550.00 | 7.14 | 35.47 | 117.6 | 22.76 | 12.53 | 2549.04 | -2225.96 | -21.89 | 94.00 | 2.48 | 2.48 | 0.52 |
| | 2645.00 | 9.70 | 34.18 | 117.6 | 34.19 | 20.45 | 2643.00 | -2132.00 | -32.78 | 95.00 | 2.70 | 2.69 | -1.36 |
| | 2740.00 | 11.39 | 33.26 | 120.3 | 48.65 | 30.09 | 2736.40 | -2038.60 | -46.58 | 95.00 | 1.79 | 1.78 | -0.97 |
| | 2834.00 | 13.23 | 32.93 | 123.0 | 65.45 | 41.03 | 2828.23 | -1946.77 | -62.62 | 94.00 | 1.96 | 1.96 | -0.35 |
| | 2928.00 | 15.85 | 33.79 | 123.0 | 85.15 | 54.02 | 2919.21 | -1855.79 | -81.43 | 94.00 | 2.80 | 2.79 | 0.91 |
| | 3023.00 | 15.51 | 34.54 | 125.7 | 106.39 | 68.43 | 3010.68 | -1764.32 | -101.69 | 95.00 | 0.42 | -0.36 | 0.79 |
| | 3117.00 | 15.89 | 33.09 | 128.4 | 127.52 | 82.59 | 3101.17 | -1673.83 | -121.85 | 94.00 | 0.58 | 0.40 | -1.54 |
| | 3212.00 | 15.39 | 33.97 | 131.1 | 148.87 | 96.73 | 3192.65 | -1582.35 | -142.23 | 95.00 | 0.58 | -0.53 | 0.93 |
| | 3306.00 | 15.13 | 34.58 | 266.2 | 169.32 | 110.66 | 3283.34 | -1491.66 | -161.72 | 94.00 | 0.33 | -0.28 | 0.65 |
| | 3400.00 | 15.32 | 36.34 | 131.1 | 189.42 | 124.98 | 3374.04 | -1400.96 | -180.84 | 94.00 | 0.53 | 0.20 | 1.87 |
| | 3495.00 | 15.33 | 35.32 | 120.3 | 209.78 | 139.68 | 3465.66 | -1309.34 | -200.19 | 95.00 | 0.28 | 0.01 | -1.07 |
| | 3684.00 | 15.71 | 35.23 | 136.5 | 251.06 | 168.89 | 3647.77 | -1127.23 | -239.48 | 189.00 | 0.20 | 0.20 | -0.05 |
| | 3778.00 | 15.88 | 34.73 | 136.5 | 272.03 | 183.55 | 3738.22 | -1036.78 | -259.44 | 94.00 | 0.23 | 0.18 | -0.53 |
| | 3872.00 | 15.38 | 34.90 | 139.2 | 292.82 | 198.01 | 3828.75 | -946.25 | -279.24 | 94.00 | 0.53 | -0.53 | 0.18 |
| | 3967.00 | 15.28 | 35.70 | 136.5 | 313.32 | 212.52 | 3920.36 | -854.64 | -298.75 | 95.00 | 0.25 | -0.11 | 0.84 |
| | 4062.00 | 15.45 | 35.76 | 139.2 | 333.75 | 227.22 | 4011.97 | -763.03 | -318.18 | 95.00 | 0.18 | 0.18 | 0.06 |
| | 4156.00 | 15.14 | 36.21 | 139.2 | 353.82 | 241.79 | 4102.64 | -672.36 | -337.25 | 94.00 | 0.35 | -0.33 | 0.48 |
| | 4251.00 | 15.21 | 34.32 | 141.9 | 374.12 | 256.15 | 4194.33 | -580.67 | -356.57 | 95.00 | 0.53 | 0.07 | -1.99 |
| | 4345.00 | 15.08 | 36.07 | 144.6 | 394.19 | 270.30 | 4285.06 | -489.94 | -375.67 | 94.00 | 0.51 | -0.14 | 1.86 |
| | 4440.00 | 15.31 | 36.13 | 144.6 | 414.31 | 284.97 | 4376.74 | -398.26 | -394.78 | 95.00 | 0.24 | 0.24 | 0.06 |
| | 4534.00 | 14.80 | 34.80 | 147.3 | 434.19 | 299.14 | 4467.52 | -307.48 | -413.70 | 94.00 | 0.66 | -0.54 | -1.41 |
| | 4629.00 | 15.01 | 34.09 | 150.0 | 454.34 | 312.96 | 4559.32 | -215.68 | -432.90 | 95.00 | 0.29 | 0.22 | -0.75 |
| | 4723.00 | 15.17 | 35.67 | 152.7 | 474.41 | 326.95 | 4650.08 | -124.92 | -452.01 | 94.00 | 0.47 | 0.17 | 1.68 |
| | 4818.00 | 14.83 | 35.42 | 152.7 | 494.42 | 341.25 | 4741.84 | -33.16 | -471.04 | 95.00 | 0.36 | -0.36 | -0.26 |
| | 4913.00 | 14.72 | 35.57 | 152.7 | 514.14 | 355.32 | 4833.70 | 58.70 | -489.81 | 95.00 | 0.12 | -0.12 | 0.16 |
| | 5007.00 | 15.18 | 36.72 | 155.4 | 533.72 | 369.62 | 4924.52 | 149.52 | -508.41 | 94.00 | 0.58 | 0.49 | 1.22 |
| | 5102.00 | 14.77 | 36.07 | 155.4 | 553.48 | 384.19 | 5016.29 | 241.29 | -527.17 | 95.00 | 0.47 | -0.43 | -0.68 |
| | 5196.00 | 14.92 | 40.50 | 158.1 | 572.37 | 399.10 | 5107.16 | 332.16 | -545.04 | 94.00 | 1.22 | 0.16 | 4.71 |
| | 5291.00 | 14.19 | 34.79 | 158.1 | 591.23 | 413.69 | 5199.11 | 424.11 | -562.91 | 95.00 | 1.69 | -0.77 | -6.01 |
| | 5386.00 | 14.95 | 35.50 | 158.1 | 610.77 | 427.45 | 5291.06 | 516.06 | -581.51 | 95.00 | 0.82 | 0.80 | 0.75 |
| | 5480.00 | 14.47 | 35.49 | 160.8 | 630.21 | 441.31 | 5381.98 | 606.98 | -599.99 | 94.00 | 0.51 | -0.51 | -0.01 |
| | 5575.00 | 15.24 | 35.91 | 160.8 | 649.98 | 455.52 | 5473.80 | 698.80 | -618.80 | 95.00 | 0.82 | 0.81 | 0.44 |
| | 5669.00 | 14.10 | 35.47 | 163.5 | 669.31 | 469.41 | 5564.73 | 789.73 | -637.18 | 94.00 | 1.22 | -1.21 | -0.47 |
| | 5764.00 | 15.06 | 36.67 | 166.2 | 688.64 | 483.50 | 5656.67 | 881.67 | -655.54 | 95.00 | 1.06 | 1.01 | 1.26 |
| | 5858.00 | 15.45 | 36.35 | 168.9 | 708.52 | 498.21 | 5747.36 | 972.36 | -674.42 | 94.00 | 0.42 | 0.41 | -0.34 |
| | 5953.00 | 15.68 | 35.82 | 166.2 | 729.12 | 513.23 | 5838.88 | 1063.88 | -693.99 | 95.00 | 0.28 | 0.24 | -0.56 |

| | | | | | | | | | | | | | | |
|--|--|----------|-------|--------|-------|----------|--------|---------|---------|---------|--------|-------|-------|-------|
| | | 6047.00 | 11.37 | 55.46 | 166.2 | 744.69 | 528.31 | 5930.30 | 1155.30 | -708.54 | 94.00 | 6.64 | -4.59 | 20.89 |
| | | 6142.00 | 11.91 | 95.19 | 168.9 | 749.12 | 545.81 | 6023.49 | 1248.49 | -711.82 | 95.00 | 8.29 | 0.57 | 41.82 |
| | | 6236.00 | 10.93 | 140.44 | 171.6 | 741.35 | 561.18 | 6115.81 | 1340.81 | -703.06 | 94.00 | 9.34 | -1.04 | 48.14 |
| | | 6331.00 | 18.00 | 148.62 | 174.3 | 721.85 | 574.58 | 6207.74 | 1432.74 | -682.73 | 95.00 | 7.73 | 7.44 | 8.61 |
| | | 6426.00 | 25.45 | 156.21 | 177.0 | 690.59 | 590.48 | 6295.95 | 1520.95 | -650.50 | 95.00 | 8.37 | 7.84 | 7.99 |
| | | 6520.00 | 33.17 | 160.25 | 179.7 | 647.84 | 607.34 | 6377.86 | 1602.86 | -606.73 | 94.00 | 8.47 | 8.21 | 4.30 |
| | | 6614.00 | 41.15 | 166.24 | 177.0 | 593.49 | 623.42 | 6452.74 | 1677.74 | -551.45 | 94.00 | 9.31 | 8.49 | 6.37 |
| | | 6709.00 | 51.11 | 170.65 | 182.5 | 526.47 | 636.90 | 6518.51 | 1743.51 | -483.69 | 95.00 | 11.00 | 10.48 | 4.64 |
| | | 6803.00 | 59.94 | 175.86 | 187.9 | 449.61 | 645.80 | 6571.69 | 1796.69 | -406.41 | 94.00 | 10.44 | 9.39 | 5.54 |
| | | 6898.00 | 68.28 | 181.37 | 190.6 | 364.29 | 647.72 | 6613.16 | 1838.16 | -321.15 | 95.00 | 10.21 | 8.78 | 5.80 |
| | | 6992.00 | 77.31 | 181.58 | 190.6 | 274.62 | 645.40 | 6640.94 | 1865.94 | -231.82 | 94.00 | 9.61 | 9.61 | 0.23 |
| | | 7087.00 | 86.77 | 181.94 | 196.0 | 180.68 | 642.51 | 6654.08 | 1879.08 | -138.27 | 95.00 | 9.96 | 9.96 | 0.38 |
| | | 7182.00 | 88.98 | 180.80 | 198.7 | 85.78 | 640.25 | 6657.60 | 1882.60 | -43.73 | 95.00 | 2.62 | 2.33 | -1.20 |
| | | 7276.00 | 89.94 | 180.53 | 201.4 | -8.20 | 639.15 | 6658.49 | 1883.49 | 49.99 | 94.00 | 1.06 | 1.02 | -0.29 |
| | | 7371.00 | 90.09 | 180.23 | 206.8 | -103.20 | 638.52 | 6658.46 | 1883.46 | 144.74 | 95.00 | 0.35 | 0.16 | -0.32 |
| | | 7465.00 | 89.88 | 180.29 | 204.1 | -197.20 | 638.10 | 6658.49 | 1883.49 | 238.51 | 94.00 | 0.23 | -0.22 | 0.06 |
| | | 7560.00 | 90.25 | 180.01 | 209.5 | -292.20 | 637.85 | 6658.38 | 1883.38 | 333.29 | 95.00 | 0.49 | 0.39 | -0.29 |
| | | 7654.00 | 90.86 | 180.11 | 212.2 | -386.20 | 637.75 | 6657.47 | 1882.47 | 427.08 | 94.00 | 0.66 | 0.65 | 0.11 |
| | | 7749.00 | 90.09 | 179.82 | 212.2 | -481.19 | 637.81 | 6656.68 | 1881.68 | 521.88 | 95.00 | 0.87 | -0.81 | -0.31 |
| | | 7843.00 | 90.08 | 180.58 | 212.2 | -575.19 | 637.48 | 6656.54 | 1881.54 | 615.65 | 94.00 | 0.81 | -0.01 | 0.81 |
| | | 7937.00 | 90.14 | 180.38 | 212.2 | -669.19 | 636.69 | 6656.36 | 1881.36 | 709.40 | 94.00 | 0.22 | 0.06 | -0.21 |
| | | 8032.00 | 90.66 | 180.55 | 212.2 | -764.18 | 635.92 | 6655.70 | 1880.70 | 804.14 | 95.00 | 0.58 | 0.55 | 0.18 |
| | | 8126.00 | 90.63 | 180.29 | 214.9 | -858.17 | 635.23 | 6654.64 | 1879.64 | 897.88 | 94.00 | 0.28 | -0.03 | -0.28 |
| | | 8221.00 | 89.92 | 180.06 | 214.9 | -953.17 | 634.94 | 6654.19 | 1879.19 | 992.66 | 95.00 | 0.79 | -0.75 | -0.24 |
| | | 8315.00 | 89.95 | 180.54 | 217.6 | -1047.17 | 634.45 | 6654.29 | 1879.29 | 1086.42 | 94.00 | 0.51 | 0.03 | 0.51 |
| | | 8410.00 | 89.46 | 180.18 | 217.6 | -1142.16 | 633.85 | 6654.78 | 1879.78 | 1181.18 | 95.00 | 0.64 | -0.52 | -0.38 |
| | | 8504.00 | 89.86 | 180.44 | 217.6 | -1236.16 | 633.35 | 6655.34 | 1880.34 | 1274.94 | 94.00 | 0.51 | 0.43 | 0.28 |
| | | 8599.00 | 89.71 | 180.64 | 220.3 | -1331.16 | 632.45 | 6655.70 | 1880.70 | 1369.67 | 95.00 | 0.26 | -0.16 | 0.21 |
| | | 8693.00 | 89.86 | 180.14 | 220.3 | -1425.15 | 631.81 | 6656.05 | 1881.05 | 1463.42 | 94.00 | 0.56 | 0.16 | -0.53 |
| | | 8882.00 | 89.65 | 179.27 | 225.7 | -1614.15 | 632.78 | 6656.86 | 1881.86 | 1652.08 | 189.00 | 0.47 | -0.11 | -0.46 |
| | | 8977.00 | 89.34 | 179.16 | 217.6 | -1709.13 | 634.08 | 6657.69 | 1882.69 | 1746.95 | 95.00 | 0.35 | -0.33 | -0.12 |
| | | 9071.00 | 90.51 | 180.72 | 220.3 | -1803.13 | 634.18 | 6657.82 | 1882.82 | 1840.75 | 94.00 | 2.07 | 1.24 | 1.66 |
| | | 9166.00 | 90.39 | 180.40 | 223.0 | -1898.12 | 633.25 | 6657.07 | 1882.07 | 1935.47 | 95.00 | 0.36 | -0.13 | -0.34 |
| | | 9260.00 | 89.89 | 180.09 | 225.7 | -1992.12 | 632.85 | 6656.84 | 1881.84 | 2029.25 | 94.00 | 0.63 | -0.53 | -0.33 |
| | | 9355.00 | 90.20 | 180.22 | 225.7 | -2087.12 | 632.60 | 6656.77 | 1881.77 | 2124.03 | 95.00 | 0.35 | 0.33 | 0.14 |
| | | 9449.00 | 90.20 | 179.91 | 228.4 | -2181.12 | 632.49 | 6656.44 | 1881.44 | 2217.82 | 94.00 | 0.33 | -0.00 | -0.33 |
| | | 9544.00 | 89.89 | 180.07 | 231.1 | -2276.12 | 632.51 | 6656.36 | 1881.36 | 2312.61 | 95.00 | 0.37 | -0.33 | 0.17 |
| | | 9638.00 | 89.89 | 180.06 | 231.1 | -2370.12 | 632.40 | 6656.54 | 1881.54 | 2406.41 | 94.00 | 0.01 | -0.00 | -0.01 |
| | | 9733.00 | 89.86 | 180.52 | 231.1 | -2465.12 | 631.92 | 6656.75 | 1881.75 | 2501.17 | 95.00 | 0.49 | -0.03 | 0.48 |
| | | 9827.00 | 90.08 | 180.46 | 233.8 | -2559.11 | 631.11 | 6656.80 | 1881.80 | 2594.91 | 94.00 | 0.24 | 0.23 | -0.06 |
| | | 9922.00 | 90.02 | 180.35 | 233.8 | -2654.11 | 630.44 | 6656.72 | 1881.72 | 2689.66 | 95.00 | 0.13 | -0.06 | -0.12 |
| | | 10016.00 | 89.86 | 180.39 | 233.8 | -2748.11 | 629.84 | 6656.82 | 1881.82 | 2783.42 | 94.00 | 0.18 | -0.17 | 0.04 |
| | | 10111.00 | 90.39 | 180.72 | 236.5 | -2843.10 | 628.92 | 6656.61 | 1881.61 | 2878.15 | 95.00 | 0.66 | 0.56 | 0.35 |
| | | 10205.00 | 90.11 | 180.76 | 236.5 | -2937.10 | 627.70 | 6656.20 | 1881.20 | 2971.86 | 94.00 | 0.30 | -0.30 | 0.04 |
| | | 10299.00 | 90.54 | 179.34 | 236.5 | -3031.09 | 627.62 | 6655.67 | 1880.67 | 3065.65 | 94.00 | 1.58 | 0.46 | -1.51 |
| | | 10394.00 | 90.32 | 179.44 | 236.5 | -3126.08 | 628.63 | 6654.95 | 1879.95 | 3160.50 | 95.00 | 0.25 | -0.23 | 0.11 |
| | | 10489.00 | 90.29 | 179.38 | 236.5 | -3221.08 | 629.61 | 6654.45 | 1879.45 | 3255.36 | 95.00 | 0.07 | -0.03 | -0.06 |
| | | 10583.00 | 90.11 | 179.39 | 236.5 | -3315.07 | 630.62 | 6654.12 | 1879.12 | 3349.22 | 94.00 | 0.19 | -0.19 | 0.01 |
| | | 10677.00 | 90.51 | 179.64 | 239.2 | -3409.07 | 631.41 | 6653.61 | 1878.61 | 3443.06 | 94.00 | 0.50 | 0.43 | 0.27 |
| | | 10772.00 | 90.42 | 179.75 | 239.2 | -3504.06 | 631.92 | 6652.84 | 1877.84 | 3537.89 | 95.00 | 0.15 | -0.09 | 0.12 |
| | | 10866.00 | 90.29 | 179.52 | 241.9 | -3598.06 | 632.52 | 6652.26 | 1877.26 | 3631.72 | 94.00 | 0.28 | -0.14 | -0.24 |
| | | 10961.00 | 90.29 | 180.14 | 241.9 | -3693.06 | 632.80 | 6651.78 | 1876.78 | 3726.54 | 95.00 | 0.65 | -0.00 | 0.65 |
| | | 11056.00 | 90.32 | 178.76 | 241.9 | -3788.05 | 633.71 | 6651.27 | 1876.27 | 3821.38 | 95.00 | 1.45 | 0.03 | -1.45 |
| | | 11150.00 | 90.02 | 178.60 | 241.9 | -3882.02 | 635.88 | 6650.99 | 1875.99 | 3915.30 | 94.00 | 0.36 | -0.32 | -0.17 |
| | | 11245.00 | 90.23 | 178.09 | 244.6 | -3976.98 | 638.62 | 6650.78 | 1875.78 | 4010.23 | 95.00 | 0.58 | 0.22 | -0.54 |
| | | 11339.00 | 89.65 | 178.37 | 244.6 | -4070.94 | 641.52 | 6650.88 | 1875.88 | 4104.18 | 94.00 | 0.69 | -0.62 | 0.30 |
| | | 11434.00 | 89.46 | 178.59 | 244.6 | -4165.90 | 644.04 | 6651.62 | 1876.62 | 4199.10 | 95.00 | 0.31 | -0.20 | 0.23 |
| | | 11529.00 | 90.42 | 178.89 | 247.3 | -4260.88 | 646.13 | 6651.72 | 1876.72 | 4294.01 | 95.00 | 1.06 | 1.01 | 0.32 |
| | | 11623.00 | 90.63 | 178.28 | 247.3 | -4354.84 | 648.45 | 6650.86 | 1875.86 | 4387.93 | 94.00 | 0.69 | 0.22 | -0.65 |
| | | 11718.00 | 90.75 | 178.54 | 247.3 | -4448.80 | 651.44 | 6649.74 | 1874.74 | 4482.86 | 95.00 | 0.27 | 0.13 | 0.23 |

| | | | | | | | | | | | | | |
|------------|----------|-------|--------|-------|-----------|--------|---------|---------|----------|--------|------|-------|-------|
| | 11778.00 | 90.73 | 178.31 | 247.3 | -4449.80 | 651.11 | 6649.71 | 1874.71 | 4462.86 | 93.00 | 0.27 | 0.13 | 0.24 |
| | 11813.00 | 90.35 | 178.69 | 247.3 | -4544.77 | 653.44 | 6648.80 | 1873.80 | 4577.77 | 95.00 | 0.46 | -0.42 | 0.19 |
| | 11907.00 | 90.48 | 178.64 | 244.6 | -4638.74 | 655.63 | 6648.12 | 1873.12 | 4671.69 | 94.00 | 0.15 | 0.14 | -0.05 |
| | 12001.00 | 90.35 | 179.41 | 247.3 | -4732.72 | 657.23 | 6647.44 | 1872.44 | 4765.57 | 94.00 | 0.83 | -0.14 | 0.82 |
| | 12096.00 | 90.72 | 179.21 | 250.0 | -4827.71 | 658.37 | 6646.55 | 1871.55 | 4860.43 | 95.00 | 0.44 | 0.39 | -0.21 |
| | 12190.00 | 90.35 | 179.10 | 250.0 | -4921.69 | 659.76 | 6645.68 | 1870.68 | 4954.31 | 94.00 | 0.41 | -0.39 | -0.12 |
| | 12285.00 | 90.38 | 178.74 | 250.0 | -5016.68 | 661.55 | 6645.07 | 1870.07 | 5049.20 | 95.00 | 0.38 | 0.03 | -0.38 |
| | 12379.00 | 90.38 | 179.51 | 250.0 | -5110.66 | 662.98 | 6644.45 | 1869.45 | 5143.08 | 94.00 | 0.82 | 0.00 | 0.82 |
| | 12474.00 | 90.42 | 179.37 | 252.7 | -5205.65 | 663.91 | 6643.78 | 1868.78 | 5237.93 | 95.00 | 0.15 | 0.04 | -0.15 |
| | 12568.00 | 89.71 | 179.51 | 252.7 | -5299.65 | 664.83 | 6643.68 | 1868.68 | 5331.78 | 94.00 | 0.77 | -0.76 | 0.15 |
| | 12663.00 | 89.86 | 179.15 | 252.7 | -5394.64 | 665.94 | 6644.03 | 1869.03 | 5426.65 | 95.00 | 0.41 | 0.16 | -0.38 |
| | 12757.00 | 89.98 | 178.94 | 252.7 | -5488.63 | 667.51 | 6644.17 | 1869.17 | 5520.53 | 94.00 | 0.26 | 0.13 | -0.22 |
| | 12851.00 | 89.74 | 178.85 | 252.7 | -5582.61 | 669.32 | 6644.40 | 1869.40 | 5614.43 | 94.00 | 0.27 | -0.26 | -0.10 |
| | 12946.00 | 89.77 | 179.22 | 252.7 | -5677.60 | 670.92 | 6644.80 | 1869.80 | 5709.32 | 95.00 | 0.39 | 0.03 | 0.39 |
| | 13040.00 | 89.86 | 180.64 | 247.3 | -5771.59 | 671.03 | 6645.11 | 1870.11 | 5803.12 | 94.00 | 1.51 | 0.10 | 1.51 |
| | 13135.00 | 89.89 | 180.58 | 250.0 | -5866.59 | 670.02 | 6645.31 | 1870.31 | 5897.85 | 95.00 | 0.07 | 0.03 | -0.06 |
| | 13229.00 | 89.95 | 180.38 | 252.7 | -5960.58 | 669.23 | 6645.44 | 1870.44 | 5991.59 | 94.00 | 0.22 | 0.06 | -0.21 |
| | 13324.00 | 90.20 | 180.24 | 252.7 | -6055.58 | 668.72 | 6645.32 | 1870.32 | 6086.35 | 95.00 | 0.30 | 0.26 | -0.15 |
| | 13418.00 | 89.86 | 180.11 | 255.4 | -6149.58 | 668.43 | 6645.27 | 1870.27 | 6180.13 | 94.00 | 0.39 | -0.36 | -0.14 |
| | 13513.00 | 89.86 | 180.35 | 255.4 | -6244.58 | 668.05 | 6645.50 | 1870.50 | 6274.90 | 95.00 | 0.25 | -0.00 | 0.25 |
| | 13608.00 | 89.86 | 179.93 | 258.1 | -6339.58 | 667.82 | 6645.73 | 1870.73 | 6369.68 | 95.00 | 0.44 | -0.00 | -0.44 |
| | 13702.00 | 90.02 | 179.42 | 258.1 | -6433.58 | 668.35 | 6645.83 | 1870.83 | 6463.52 | 94.00 | 0.57 | 0.17 | -0.54 |
| | 13796.00 | 89.62 | 179.33 | 258.1 | -6527.57 | 669.38 | 6646.13 | 1871.13 | 6557.38 | 94.00 | 0.44 | -0.43 | -0.10 |
| | 13891.00 | 90.02 | 180.19 | 258.1 | -6622.57 | 669.78 | 6646.43 | 1871.43 | 6652.20 | 95.00 | 1.00 | 0.42 | 0.91 |
| | 13986.00 | 89.62 | 179.70 | 260.8 | -6717.57 | 669.87 | 6646.72 | 1871.72 | 6747.00 | 95.00 | 0.67 | -0.42 | -0.52 |
| | 14080.00 | 89.86 | 179.33 | 260.8 | -6811.56 | 670.66 | 6647.15 | 1872.15 | 6840.84 | 94.00 | 0.47 | 0.26 | -0.39 |
| | 14174.00 | 89.89 | 179.92 | 258.1 | -6905.56 | 671.28 | 6647.36 | 1872.36 | 6934.68 | 94.00 | 0.63 | 0.03 | 0.63 |
| | 14269.00 | 89.86 | 179.94 | 260.8 | -7000.56 | 671.39 | 6647.56 | 1872.56 | 7029.48 | 95.00 | 0.04 | -0.03 | 0.02 |
| | 14364.00 | 89.92 | 179.64 | 258.1 | -7095.56 | 671.74 | 6647.75 | 1872.75 | 7124.30 | 95.00 | 0.32 | 0.06 | -0.32 |
| | 14458.00 | 89.83 | 180.58 | 250.0 | -7189.56 | 671.56 | 6647.95 | 1872.95 | 7218.09 | 94.00 | 1.00 | -0.10 | 1.00 |
| | 14553.00 | 90.20 | 180.60 | 252.7 | -7284.55 | 670.58 | 6647.93 | 1872.93 | 7312.82 | 95.00 | 0.39 | 0.39 | 0.02 |
| | 14647.00 | 90.63 | 180.68 | 255.4 | -7378.55 | 669.53 | 6647.25 | 1872.25 | 7406.54 | 94.00 | 0.47 | 0.46 | 0.09 |
| | 14741.00 | 90.08 | 180.76 | 255.4 | -7472.54 | 668.35 | 6646.66 | 1871.66 | 7500.25 | 94.00 | 0.59 | -0.59 | 0.09 |
| | 14930.00 | 89.66 | 180.08 | 250.0 | -7661.53 | 666.97 | 6647.09 | 1872.09 | 7688.75 | 189.00 | 0.42 | -0.22 | -0.36 |
| | 15025.00 | 89.88 | 179.85 | 252.7 | -7756.53 | 667.03 | 6647.47 | 1872.47 | 7783.55 | 95.00 | 0.34 | 0.23 | -0.24 |
| | 15120.00 | 90.65 | 180.13 | 252.7 | -7851.53 | 667.04 | 6647.03 | 1872.03 | 7878.34 | 95.00 | 0.86 | 0.81 | 0.29 |
| | 15309.00 | 90.68 | 179.74 | 255.4 | -8040.51 | 667.26 | 6644.84 | 1869.84 | 8066.94 | 189.00 | 0.21 | 0.02 | -0.21 |
| | 15404.00 | 90.55 | 179.95 | 255.4 | -8135.51 | 667.51 | 6643.82 | 1868.82 | 8161.75 | 95.00 | 0.26 | -0.14 | 0.22 |
| | 15498.00 | 90.40 | 180.00 | 258.1 | -8229.50 | 667.55 | 6643.04 | 1868.04 | 8255.54 | 94.00 | 0.17 | -0.16 | 0.05 |
| | 15592.00 | 90.37 | 180.24 | 252.7 | -8323.50 | 667.36 | 6642.41 | 1867.41 | 8349.33 | 94.00 | 0.26 | -0.03 | 0.26 |
| | 15687.00 | 90.65 | 180.25 | 252.7 | -8418.50 | 666.95 | 6641.56 | 1866.56 | 8444.09 | 95.00 | 0.29 | 0.29 | 0.01 |
| | 15776.00 | 90.49 | 178.54 | 255.4 | -8607.47 | 668.95 | 6639.68 | 1864.68 | 8632.79 | 189.00 | 0.91 | -0.08 | -0.90 |
| | 15970.00 | 90.37 | 177.75 | 255.4 | -8701.42 | 671.99 | 6638.98 | 1863.98 | 8726.74 | 94.00 | 0.85 | -0.13 | -0.84 |
| | 16159.00 | 90.28 | 180.17 | 255.4 | -8890.37 | 675.42 | 6637.91 | 1862.91 | 8915.51 | 189.00 | 1.28 | -0.05 | 1.28 |
| | 16254.00 | 89.66 | 179.05 | 196.0 | -8985.36 | 676.07 | 6637.96 | 1862.96 | 9010.34 | 95.00 | 1.35 | -0.65 | -1.18 |
| | 16443.00 | 89.23 | 180.01 | 258.1 | -9174.35 | 677.62 | 6639.79 | 1864.79 | 9199.02 | 189.00 | 0.56 | -0.23 | 0.51 |
| | 16538.00 | 89.48 | 179.92 | 255.4 | -9269.34 | 677.68 | 6640.86 | 1865.86 | 9293.82 | 95.00 | 0.28 | 0.26 | -0.09 |
| | 16632.00 | 89.38 | 179.48 | 255.4 | -9363.33 | 678.17 | 6641.79 | 1866.79 | 9387.64 | 94.00 | 0.48 | -0.11 | -0.47 |
| | 16727.00 | 89.35 | 179.91 | 252.7 | -9458.33 | 678.67 | 6642.84 | 1867.84 | 9482.46 | 95.00 | 0.45 | -0.03 | 0.45 |
| | 16916.00 | 89.60 | 179.96 | 255.4 | -9647.32 | 678.89 | 6644.58 | 1869.58 | 9671.06 | 189.00 | 0.13 | 0.13 | 0.03 |
| Projection | 17374.00 | 89.60 | 179.96 | N/A | -10105.31 | 679.21 | 6647.77 | 1872.77 | 10128.09 | 458.00 | 0.00 | 0.00 | 0.00 |