



## Crew

| Name     | Arrive<br>Wellsite | Depart<br>Wellsite | Name        | Arrive<br>Wellsite | Depart<br>Wellsite | Name | Arrive<br>Wellsite | Depart<br>Wellsite |
|----------|--------------------|--------------------|-------------|--------------------|--------------------|------|--------------------|--------------------|
| Tien Bui | 2019-05-09         | 2019-05-13         | James Himes | 2019-05-13         | 2019-05-13         |      |                    |                    |

## 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+ (%) |
|------------------|---------|------------|---------------|---------------|----------------|-----|------------------|-------------|------------|-----------------------|--------|
| 2019-05-09 15:10 | 1       | 1950.00    | Oil Based Mud | 9.3           | 16             | N/A | 21.0             | 77.7/22.3   | Active Pit | 28000                 | 0.00   |
| 2019-05-10 09:06 | 1       | 5101.00    | Oil Based Mud | 9.2           | 10             | N/A | 19.3             | 79.1/20.9   | Active Pit | 26500                 | 0.00   |
| 2019-05-11 07:50 | 1       | 10009.00   | Oil Based Mud | 9.4           | 11             | N/A | 19.4             | 78.4/21.6   | Active Pit | 29500                 | 0.00   |
| 2019-05-12 01:11 | 2       | 11406.00   | Oil Based Mud | 9.4           | 11             | N/A | 19.4             | 78.4/21.6   | Active Pit | 29500                 | 0.00   |
| 2019-05-12 09:17 | 2       | 11916.00   | Oil Based Mud | 9.6           | 13             | N/A | 19.0             | 79.2/20.8   | Active Pit | 28000                 | 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       | AutoTrak Curve Steering Unit | 14316021      | Near Bit Inclination | 5.93               | 6.78            | 7.000         | 4.330         |
| 1       | AutoTrak Curve Steering Unit | 14316021      | Near Bit VSS         | 5.93               | 6.78            | 7.000         | 4.330         |
| 1       | AutoTrak Curve MWD           | 14367858      | Gamma (single)       | 2.77               | 12.95           | 6.750         | 3.250         |
| 1       | AutoTrak Curve MWD           | 14367858      | Directional (mag)    | 12.27              | 22.45           | 6.750         | 3.250         |
| 2       | AutoTrak Curve Steering Unit | 12296375      | Near Bit VSS         | 5.93               | 6.78            | 7.000         | 4.330         |
| 2       | AutoTrak Curve Steering Unit | 12296375      | Near Bit Inclination | 5.93               | 6.78            | 7.000         | 4.330         |
| 2       | AutoTrak Curve MWD           | 12271546      | Gamma (single)       | 2.76               | 12.95           | 7.000         | 3.250         |
| 2       | AutoTrak Curve MWD           | 12271546      | Directional (mag)    | 12.27              | 22.46           | 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

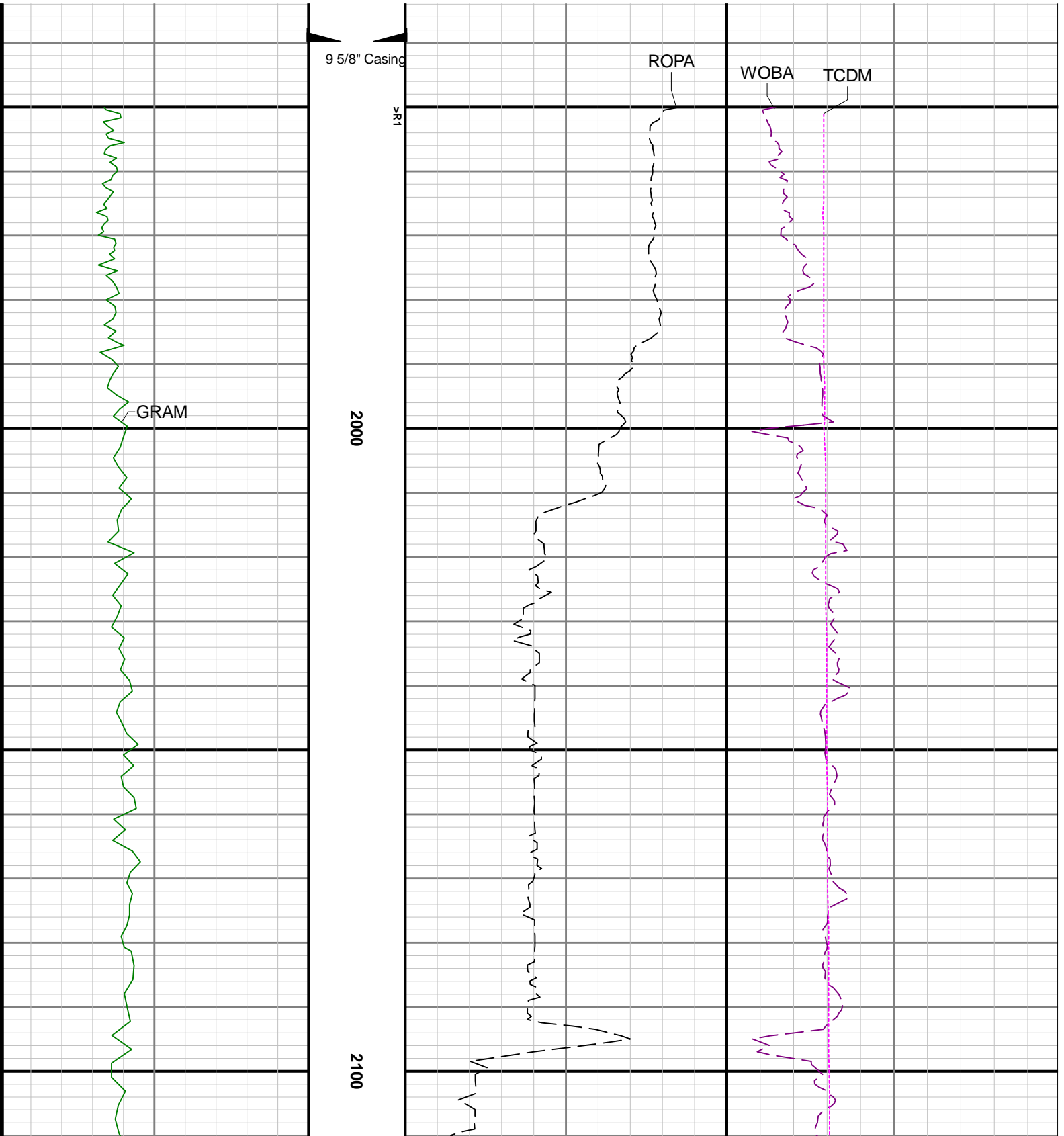
- |   |   |
|---|---|
| 1 | Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified. |
| 2 | Baker Hughes LWD Run 1 and 2 utilized 6 3/4 inch NaviGamma service (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1950 to 16905 feet MD (1950 to 6576 feet TVD).                                 |
| 3 | The Gamma Ray Apparent (GRAM) data is presented 0 to 300 API, per the customer's request.   |

## 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  |

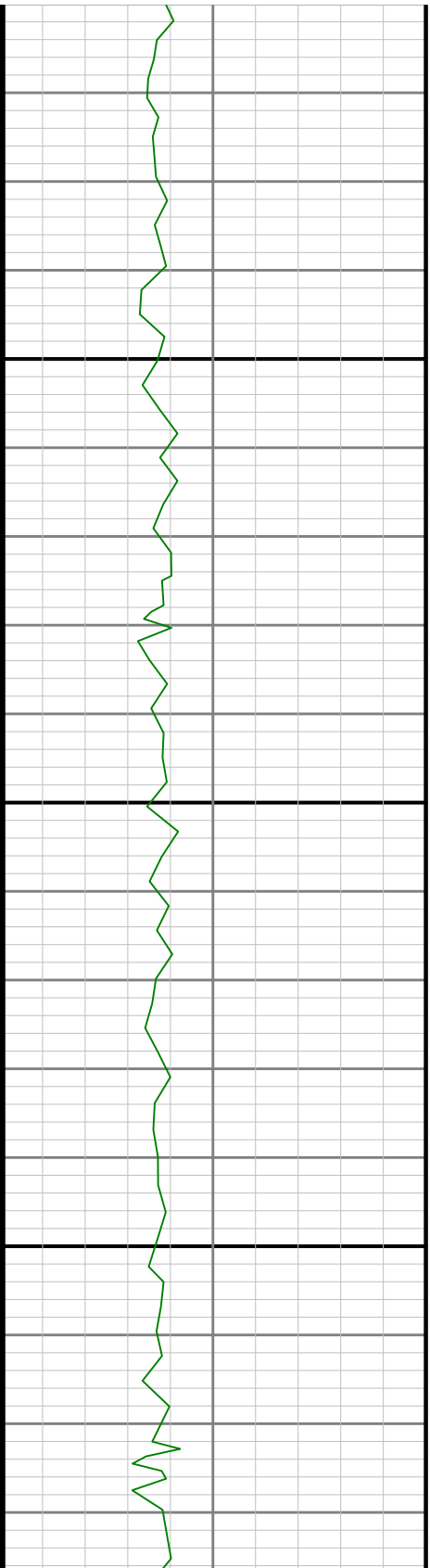
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|---|----------------|--|--|
| Gamma Ray - Apparent 0.5 ft Average GRAM<br>0 300 | TVD 1:240 feet | Depth Averaged ROP 3 ft Average ROPA<br>1000 0 | Weight On Bit, Average 1 ft Average WOBA<br>0 50 |
| API   |                | ft/h   | klb  |
|   |                |  | Downhole Temperature TCDM<br>0 300               |
|   |                |  | degF   |

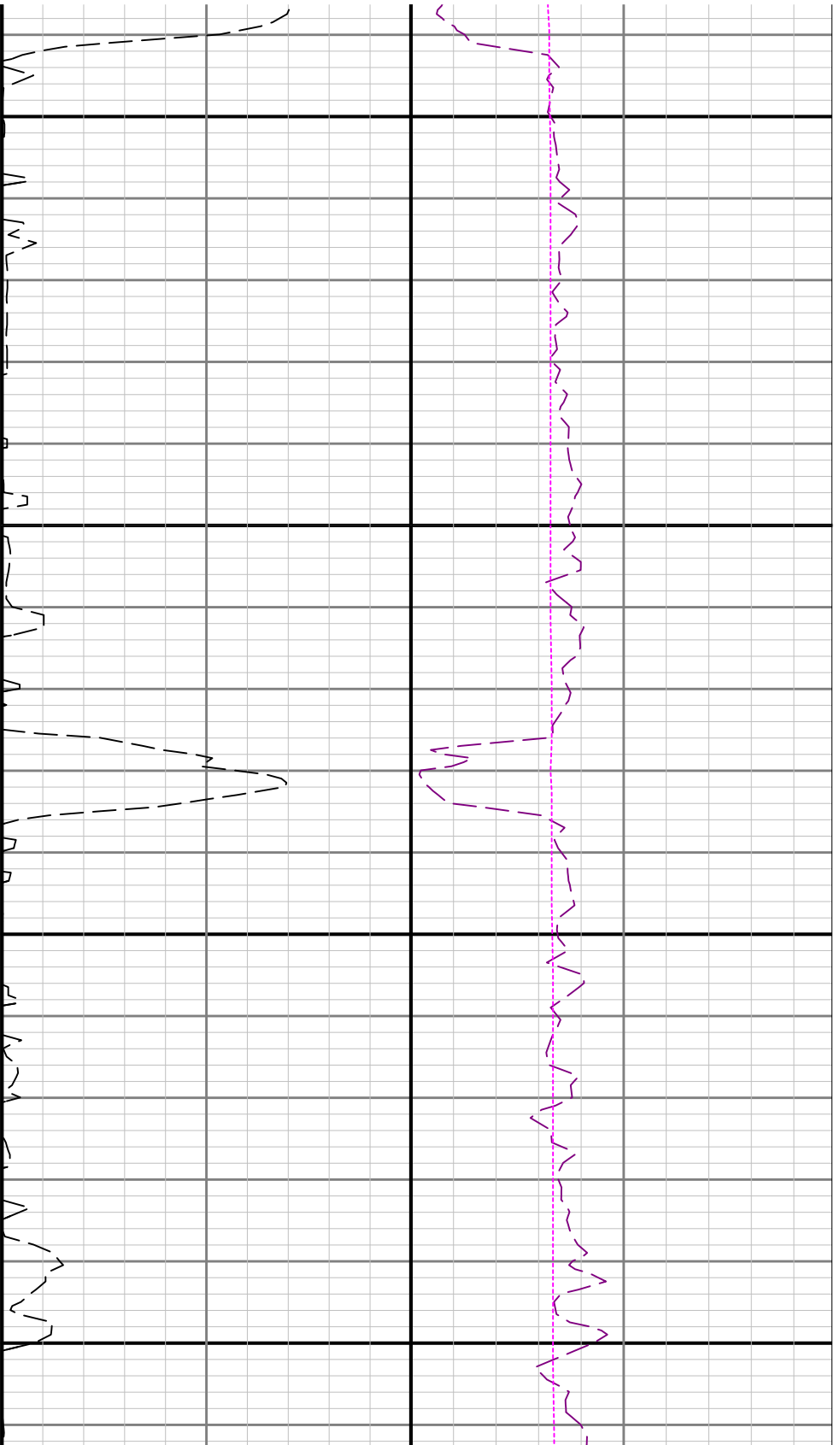
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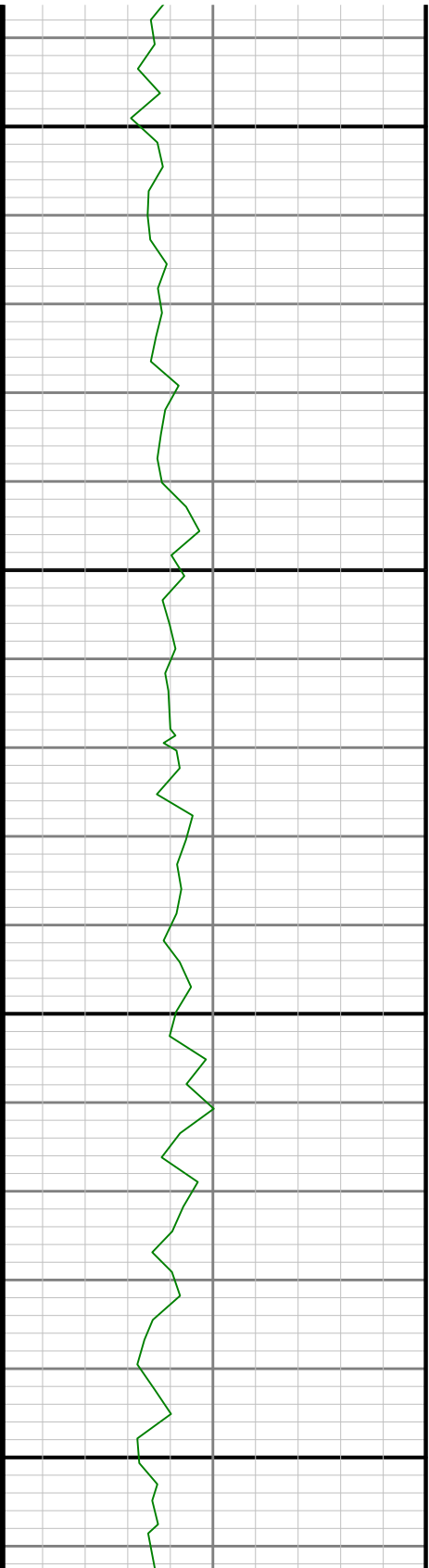
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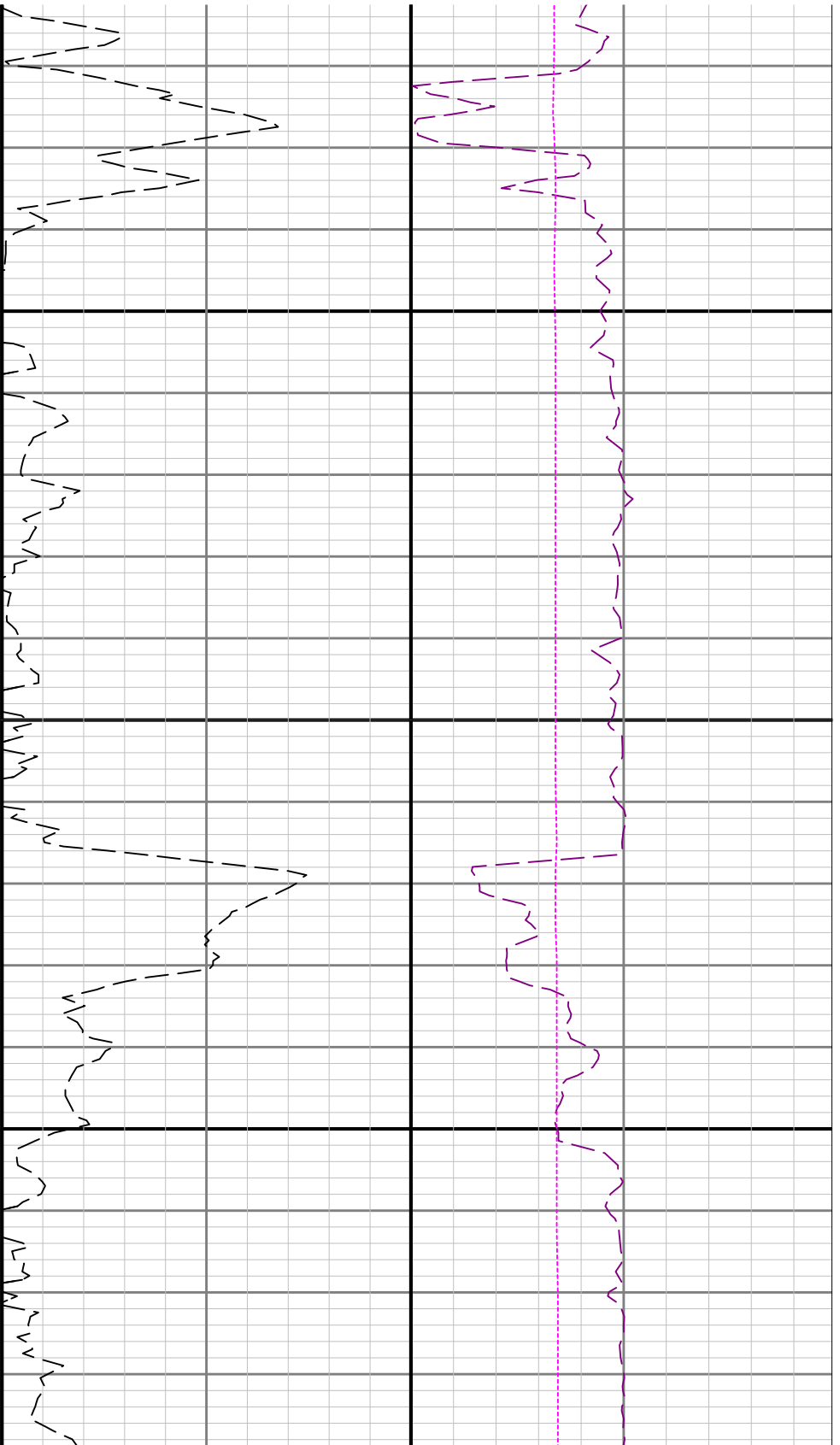




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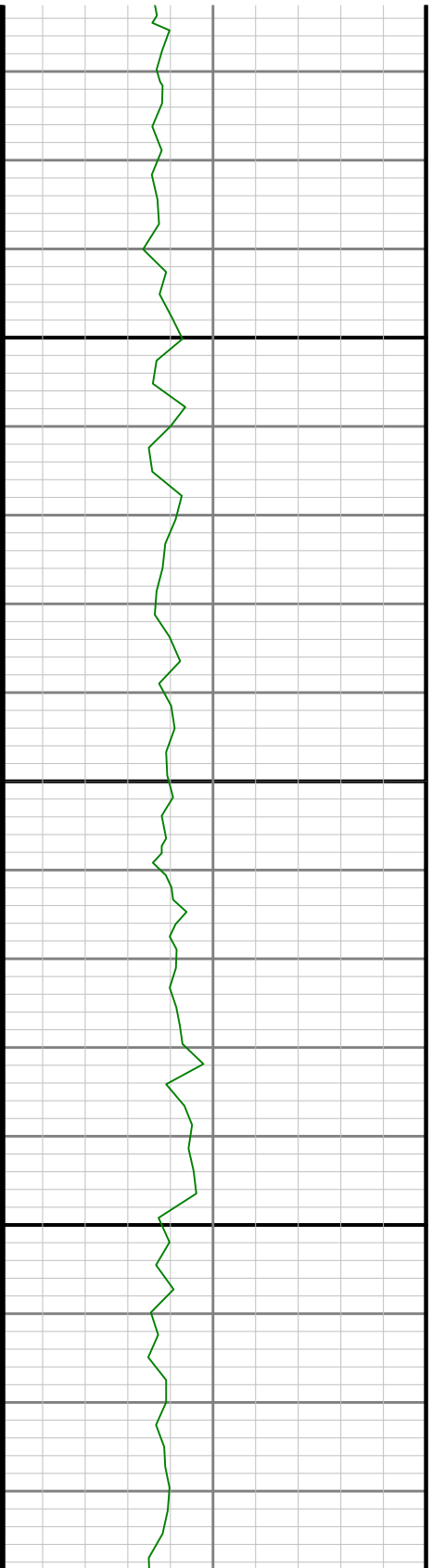
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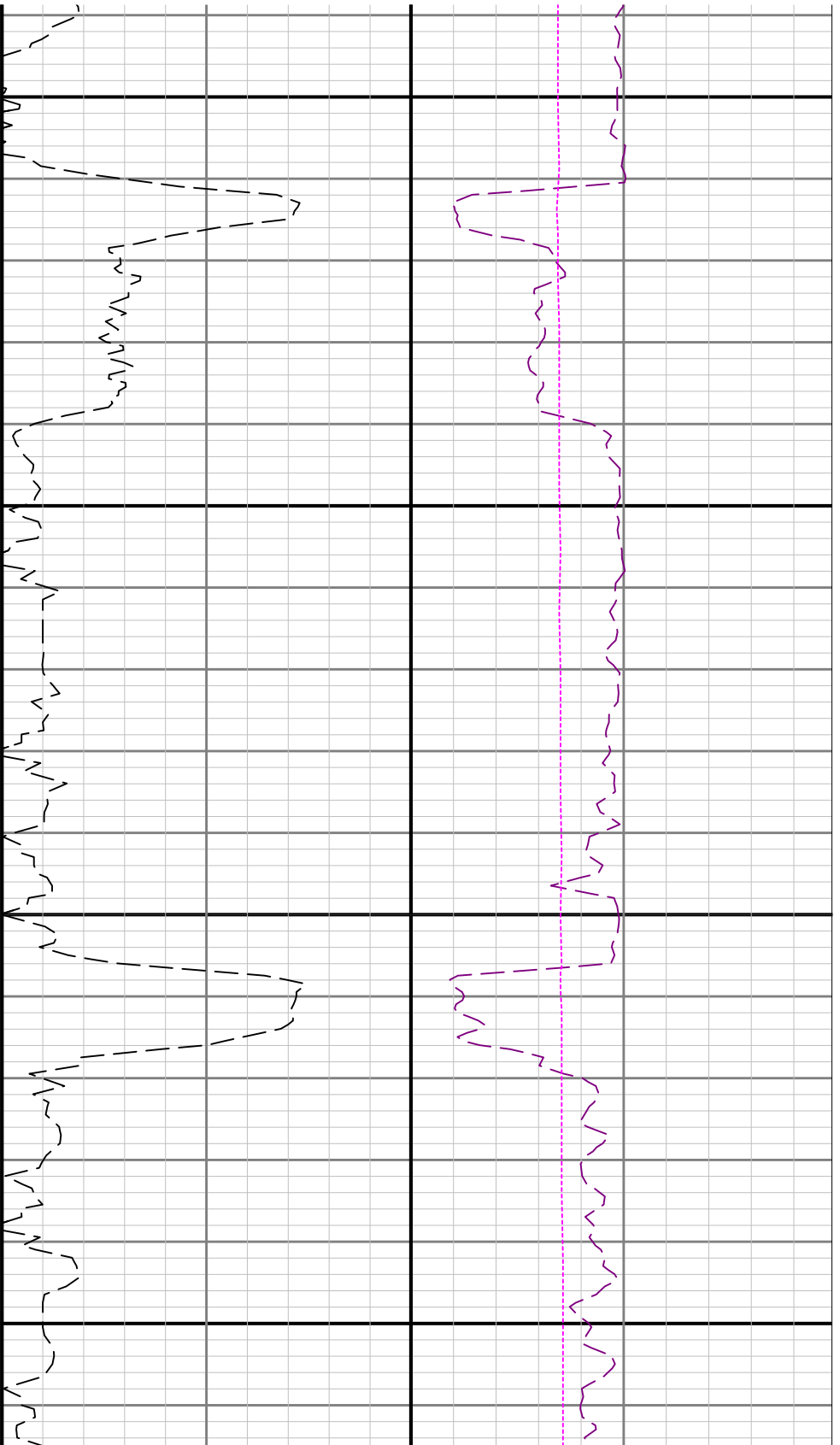




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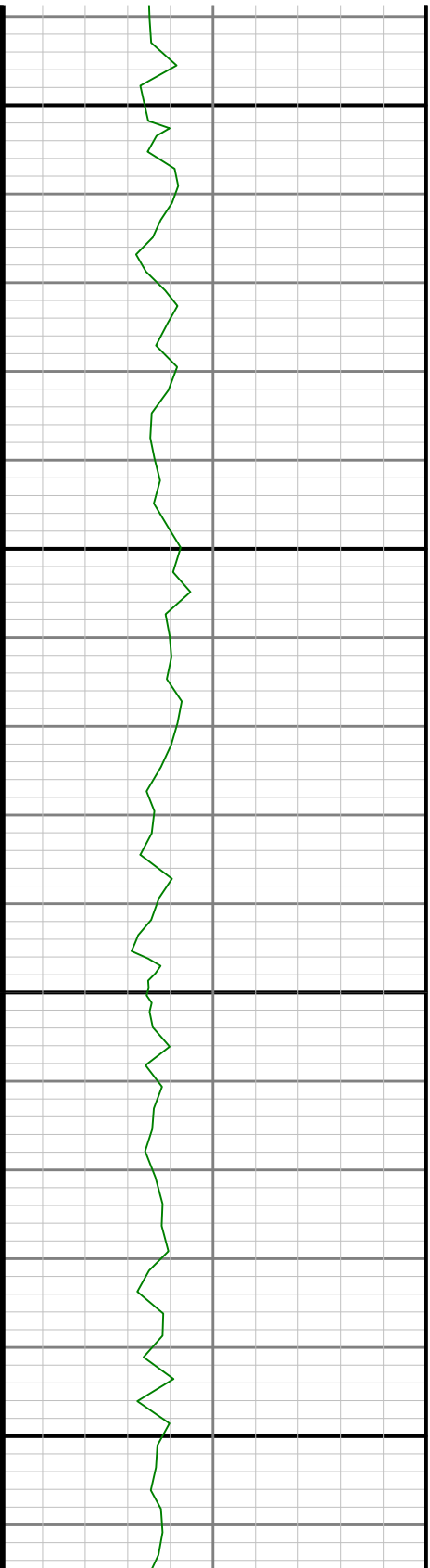
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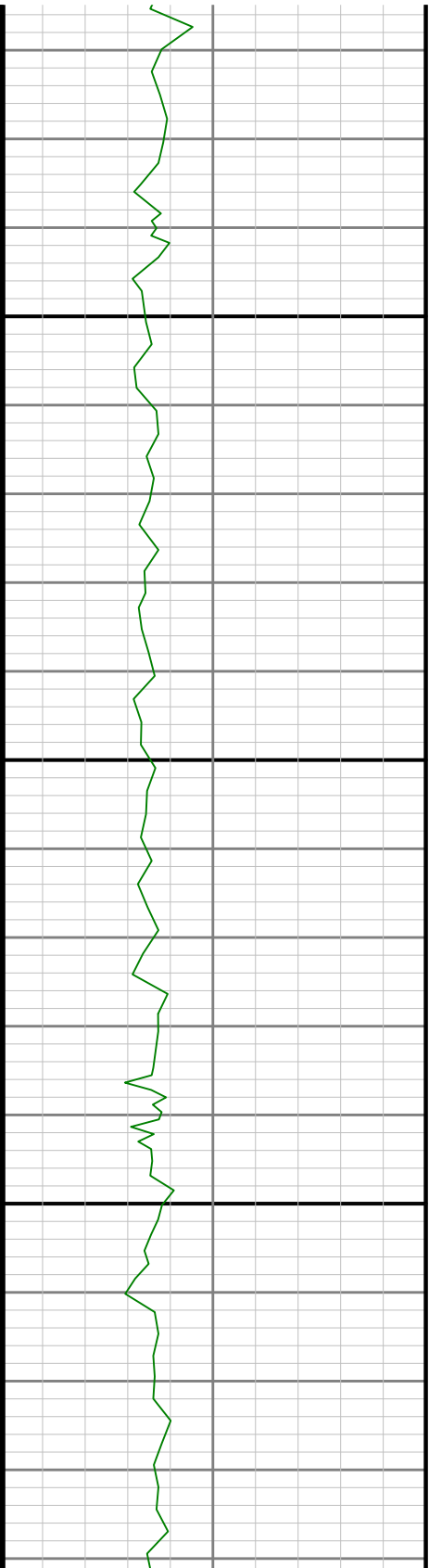




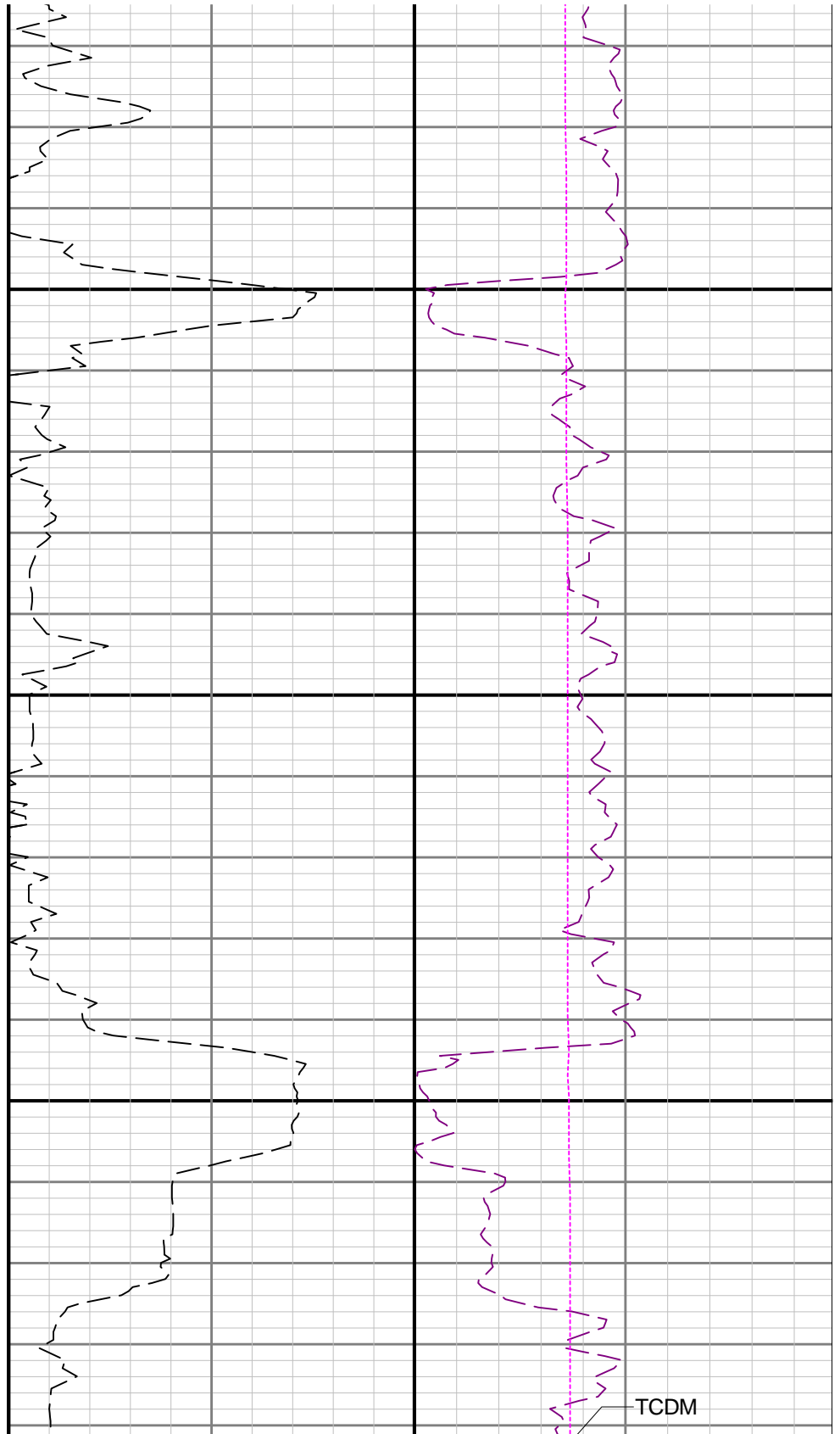
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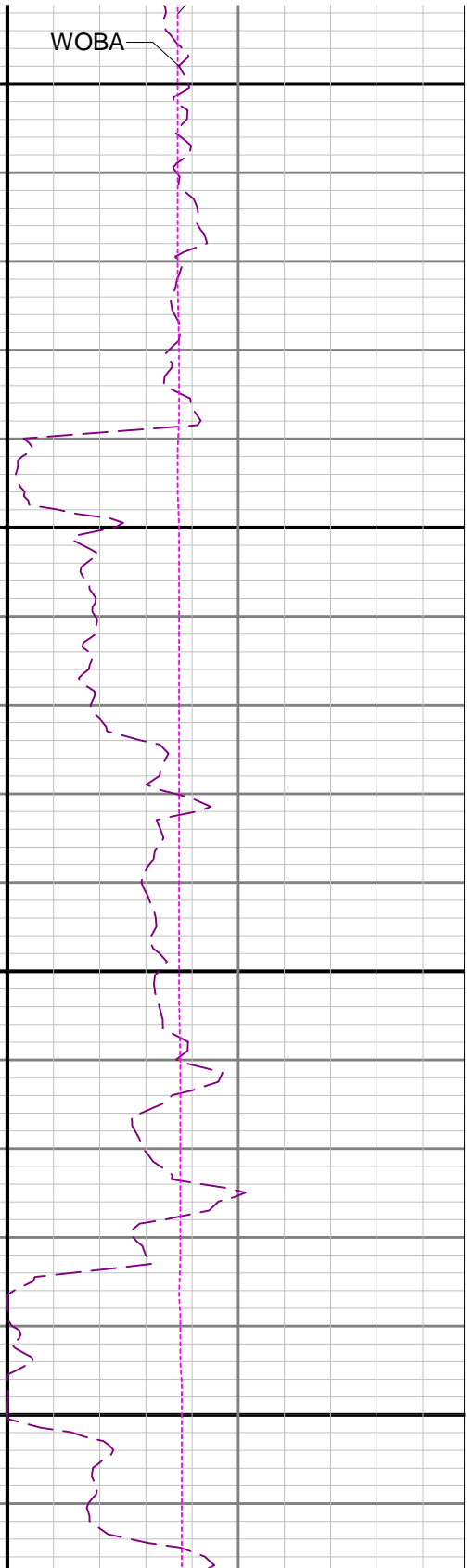
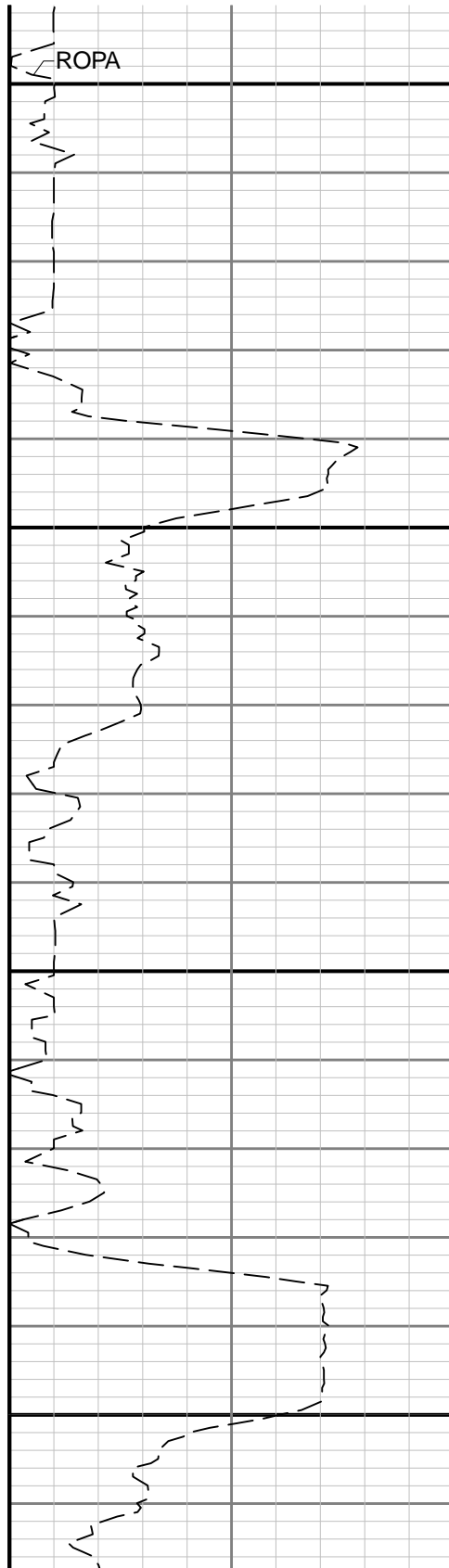
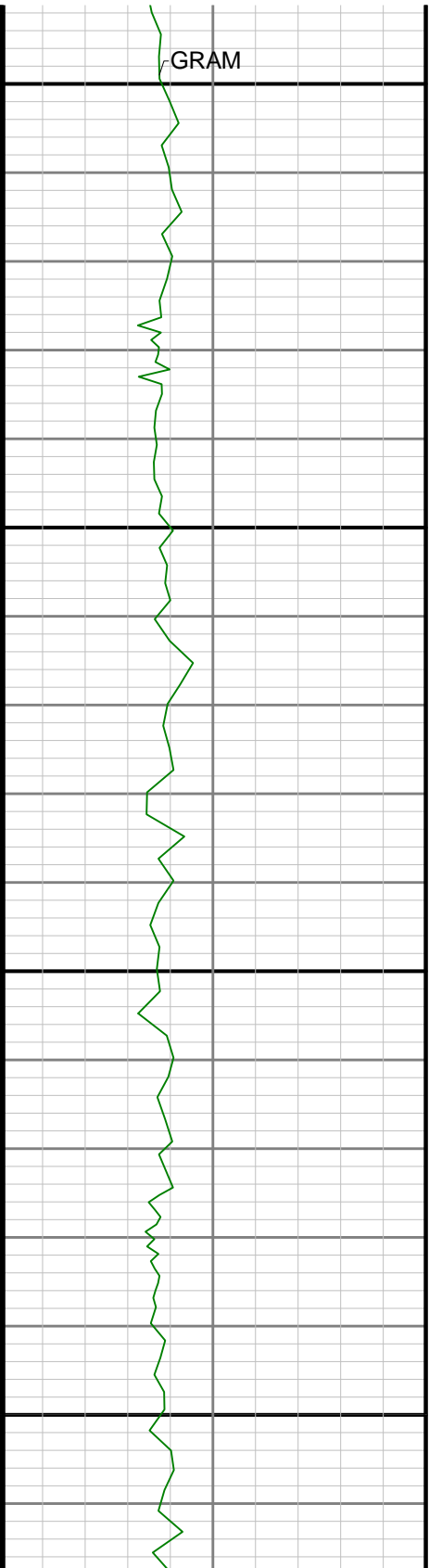


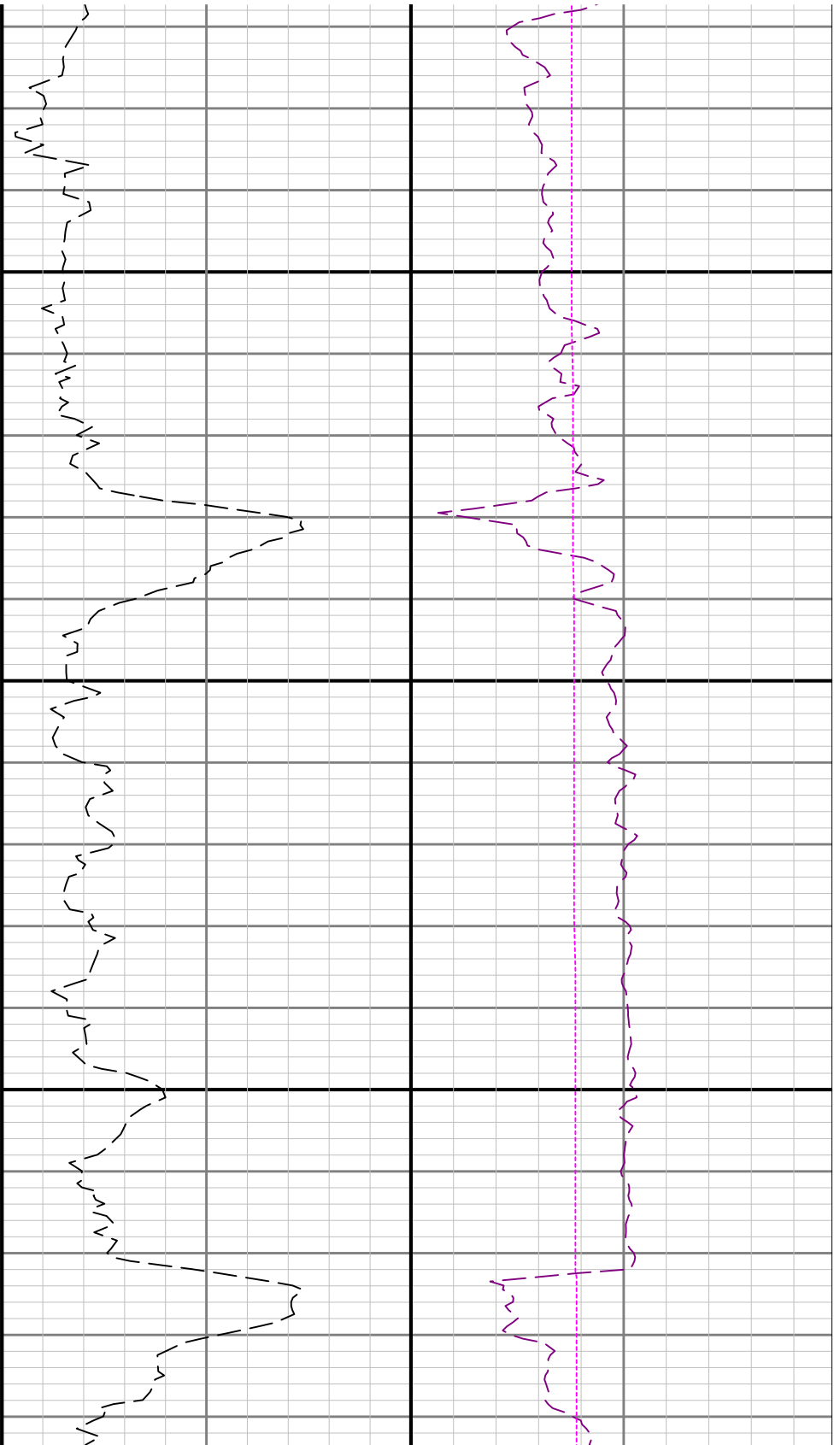


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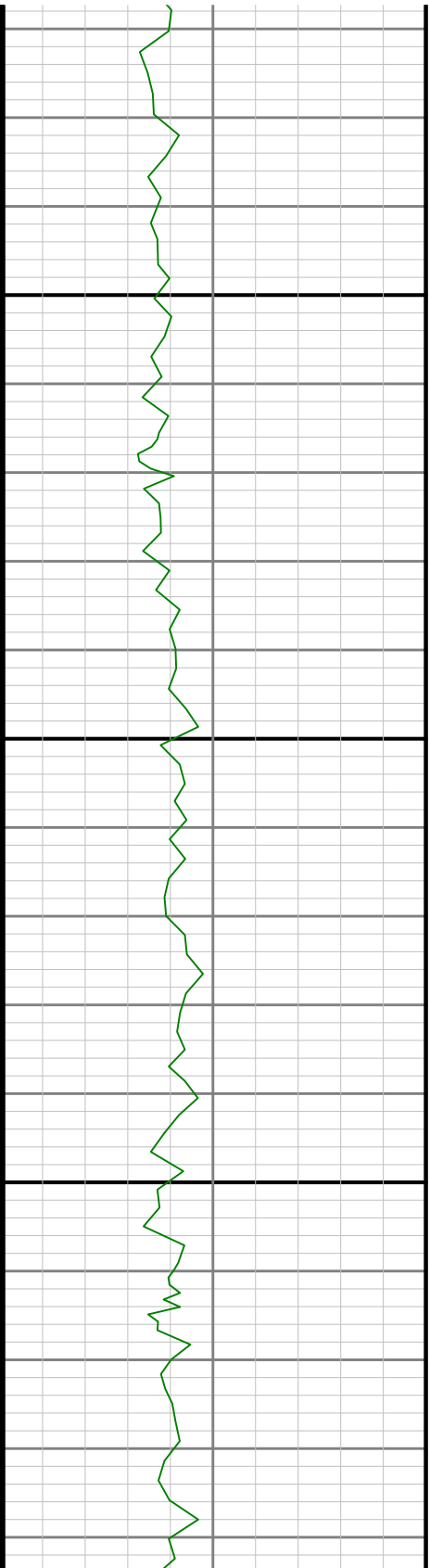


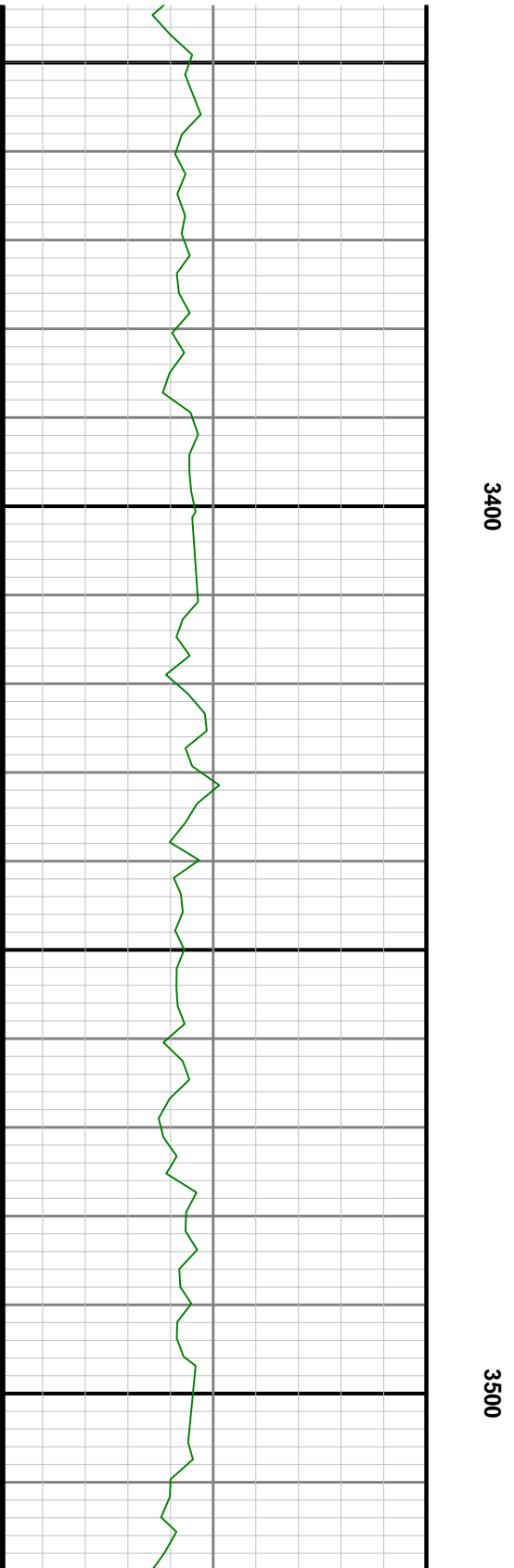
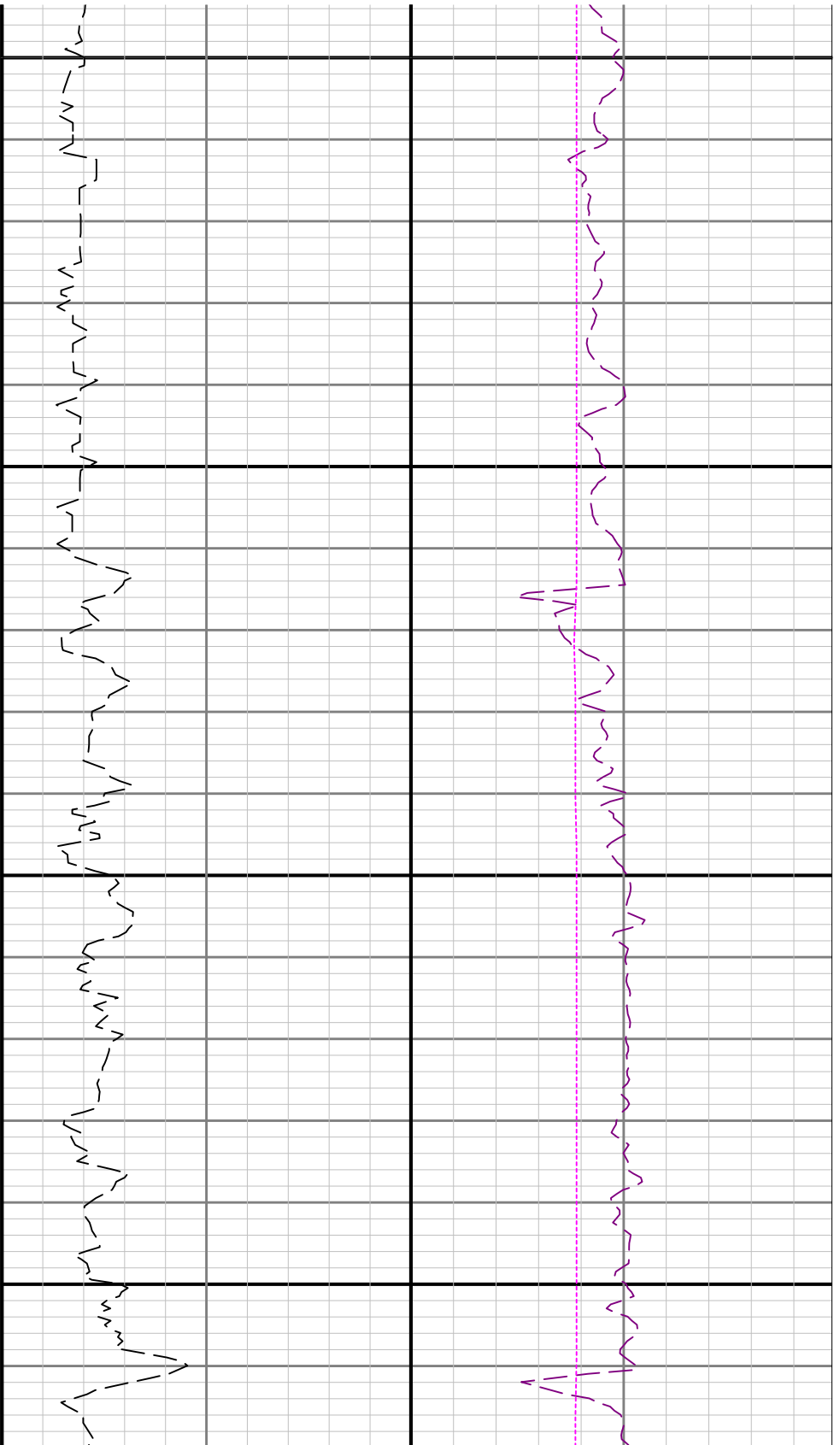


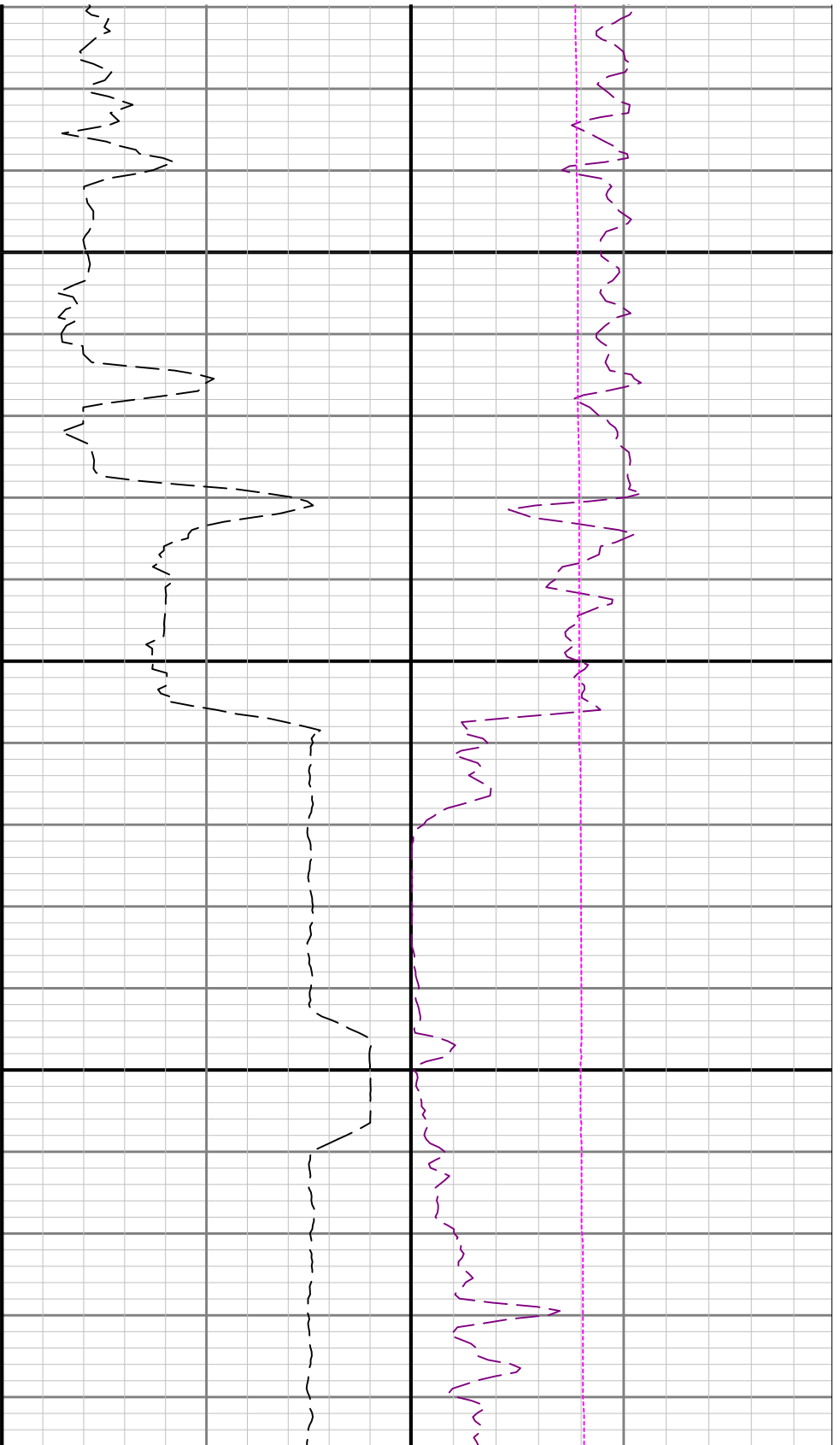


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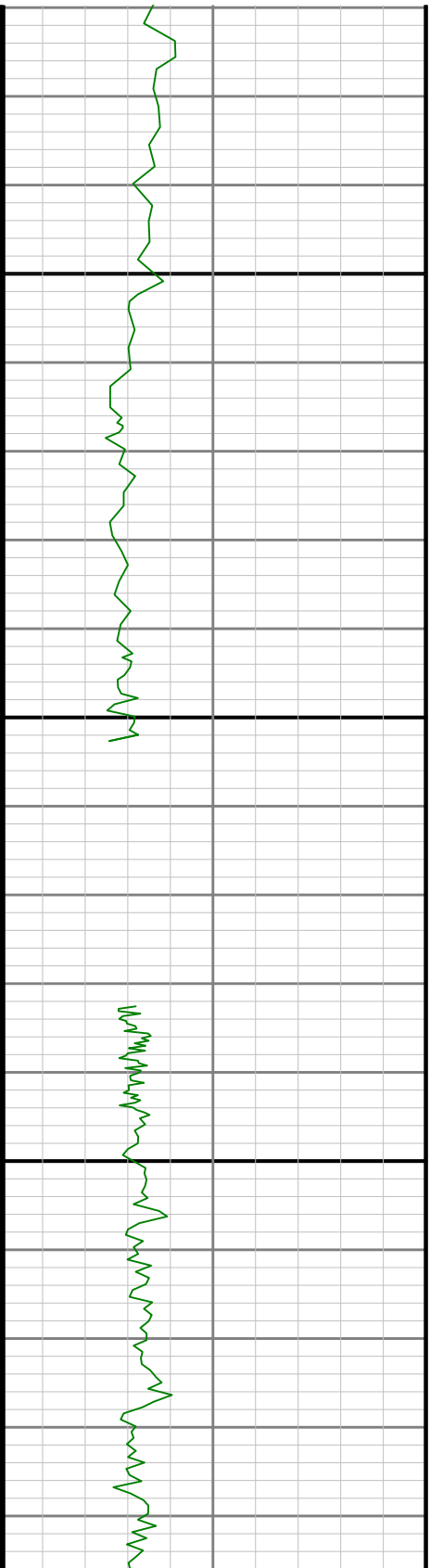
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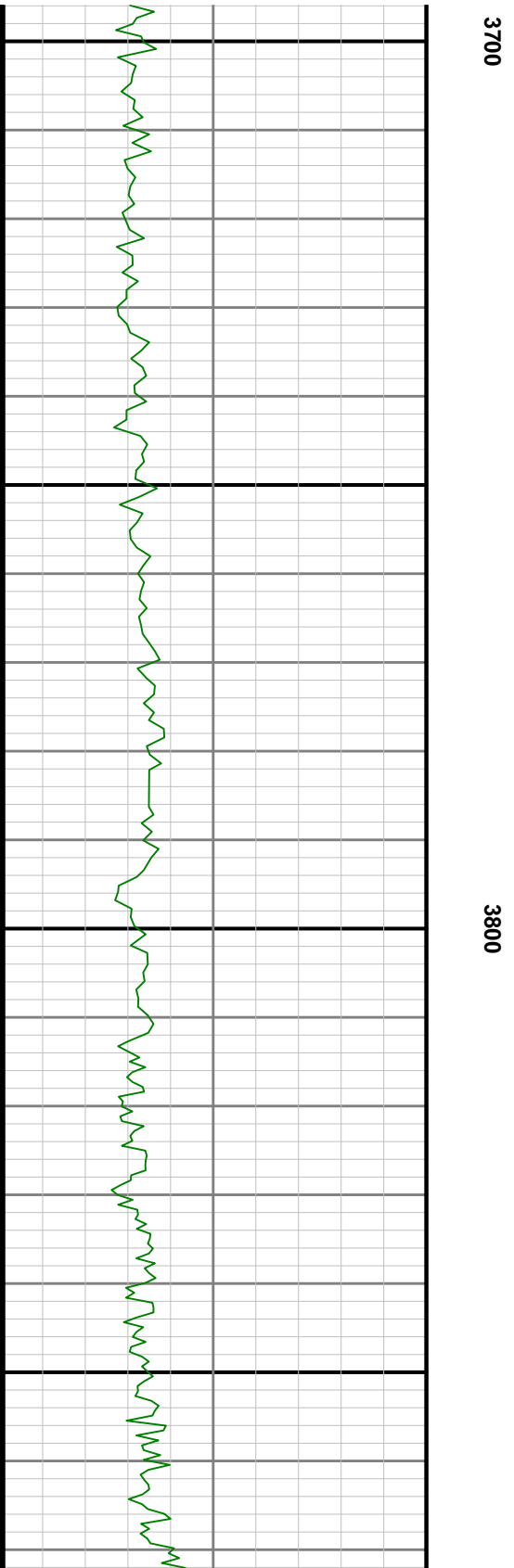
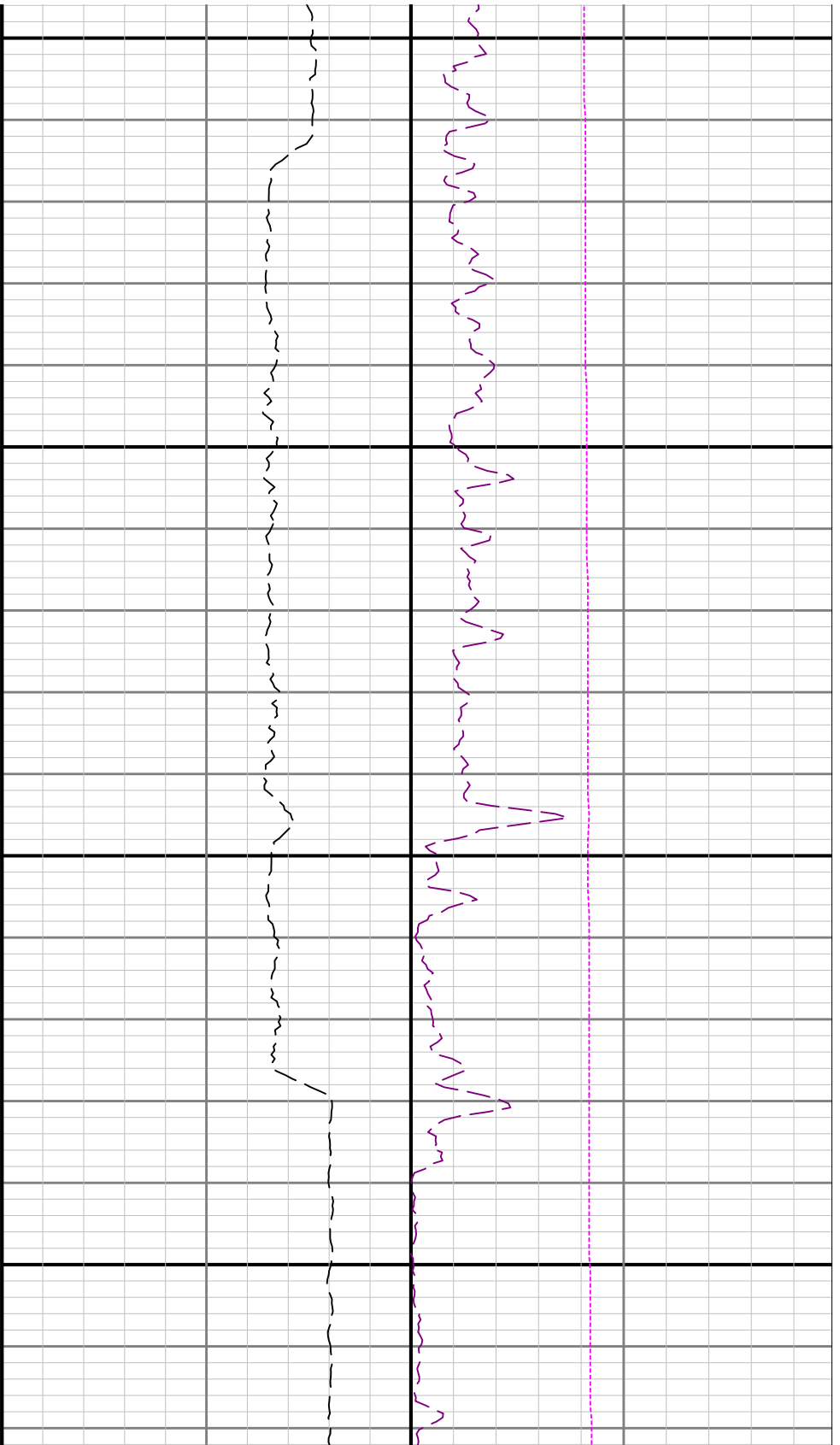


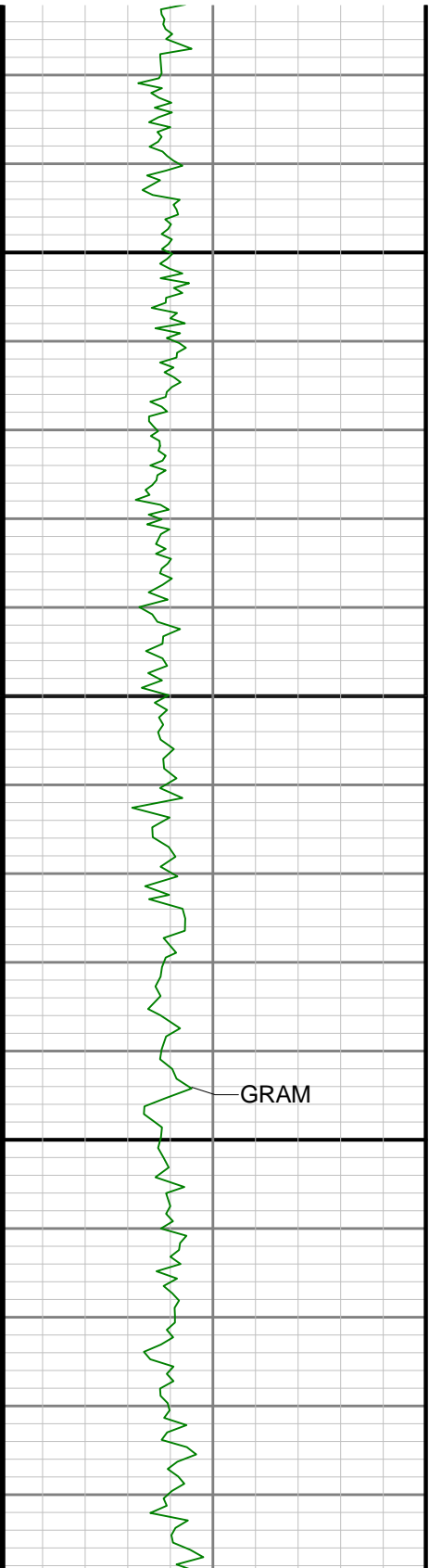




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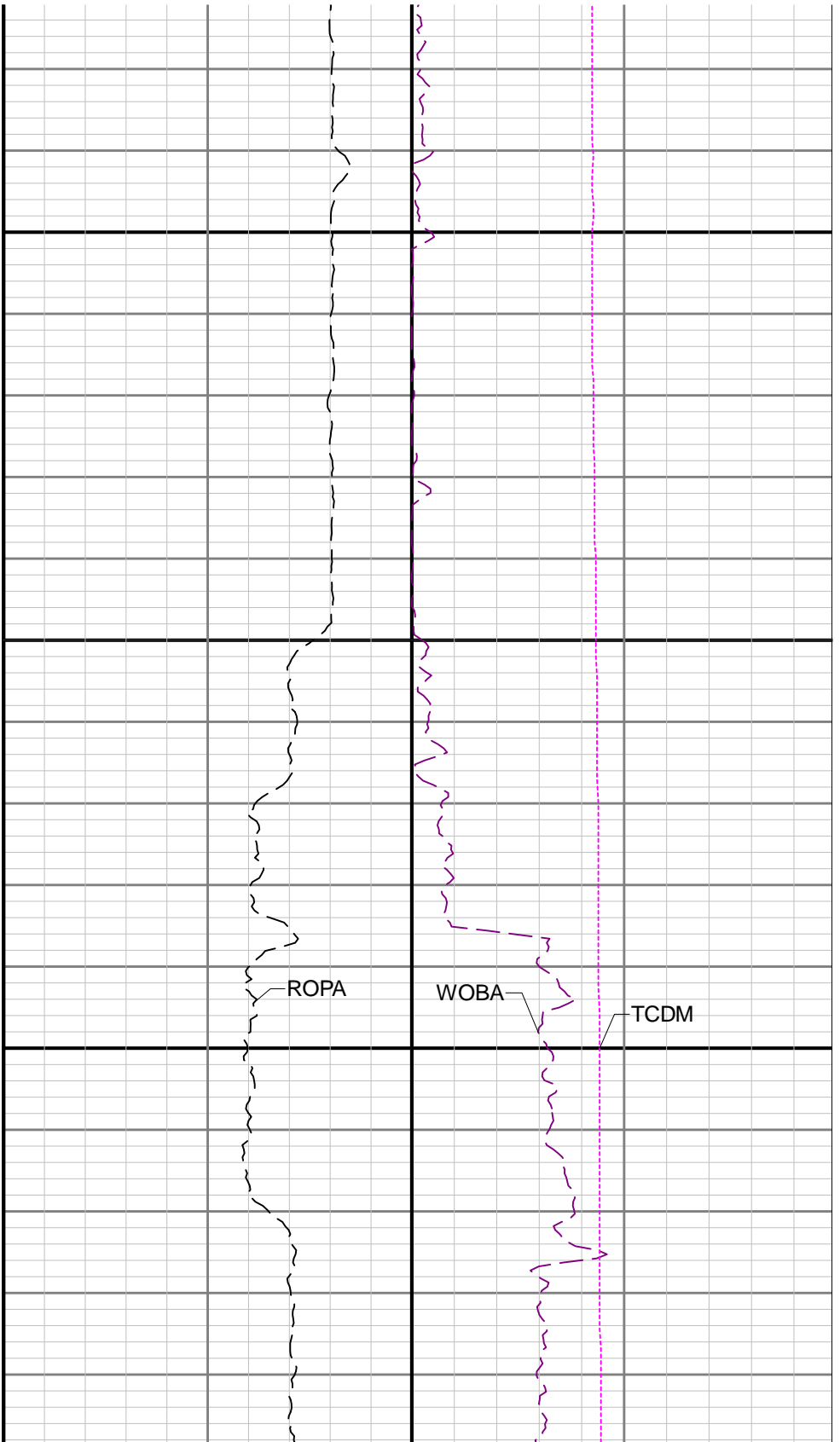




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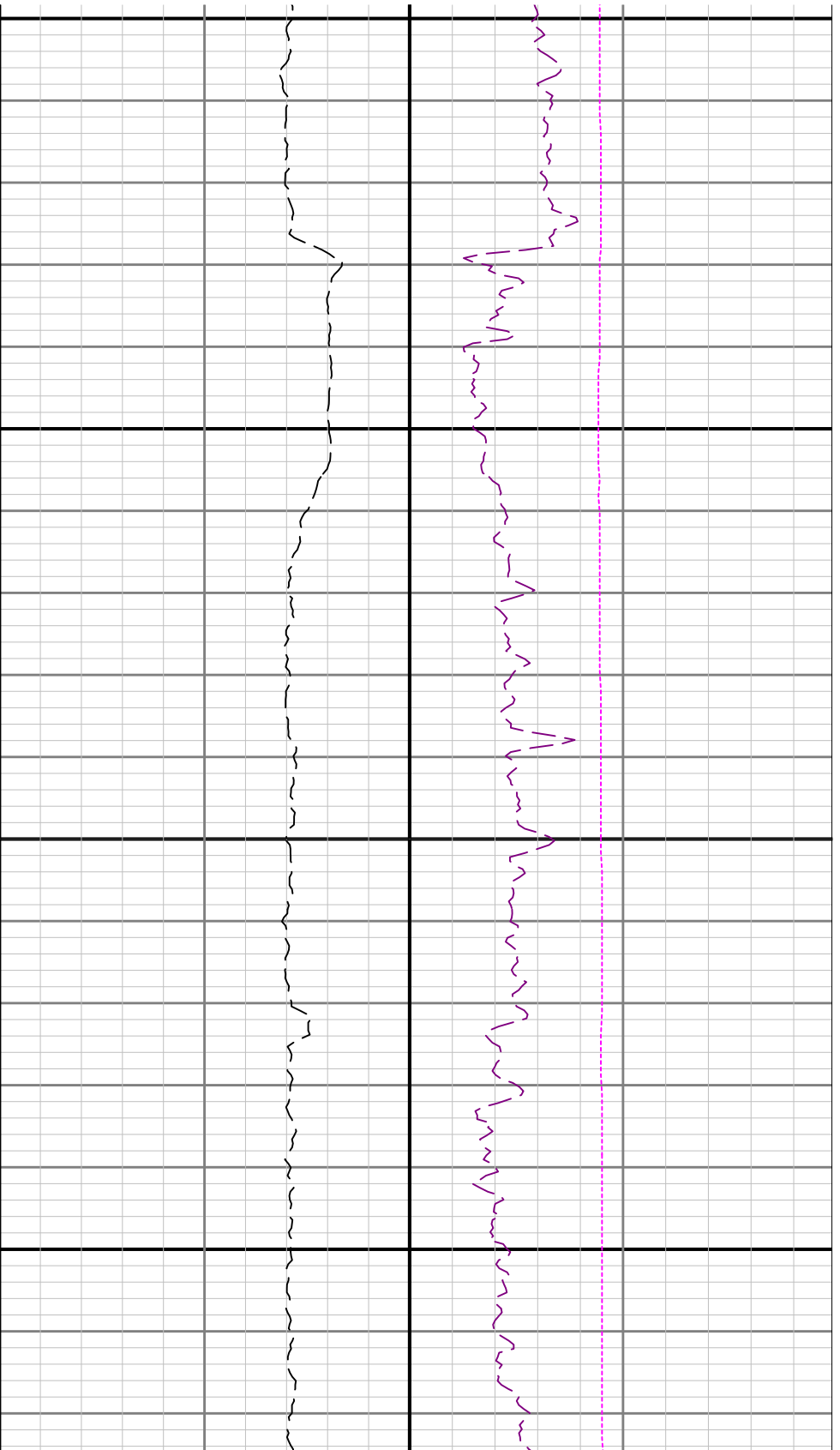
GRAM



TCDM

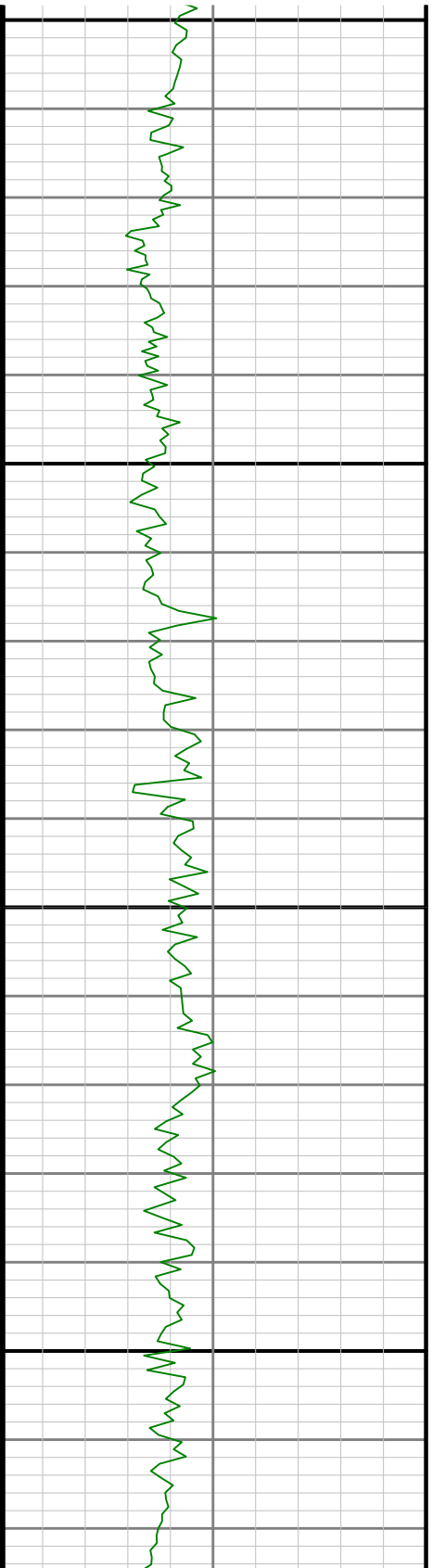
WOBA

ROPA



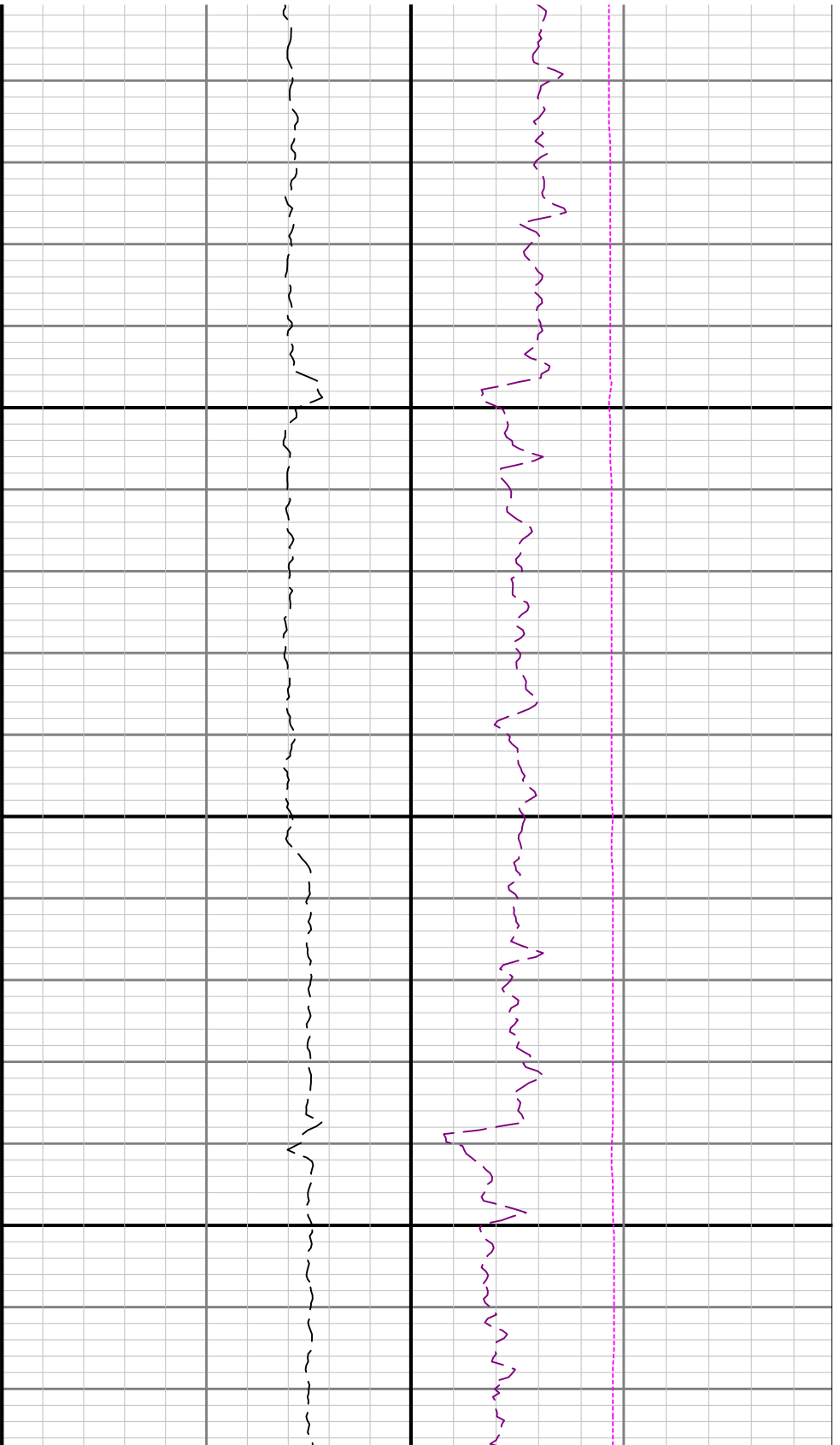
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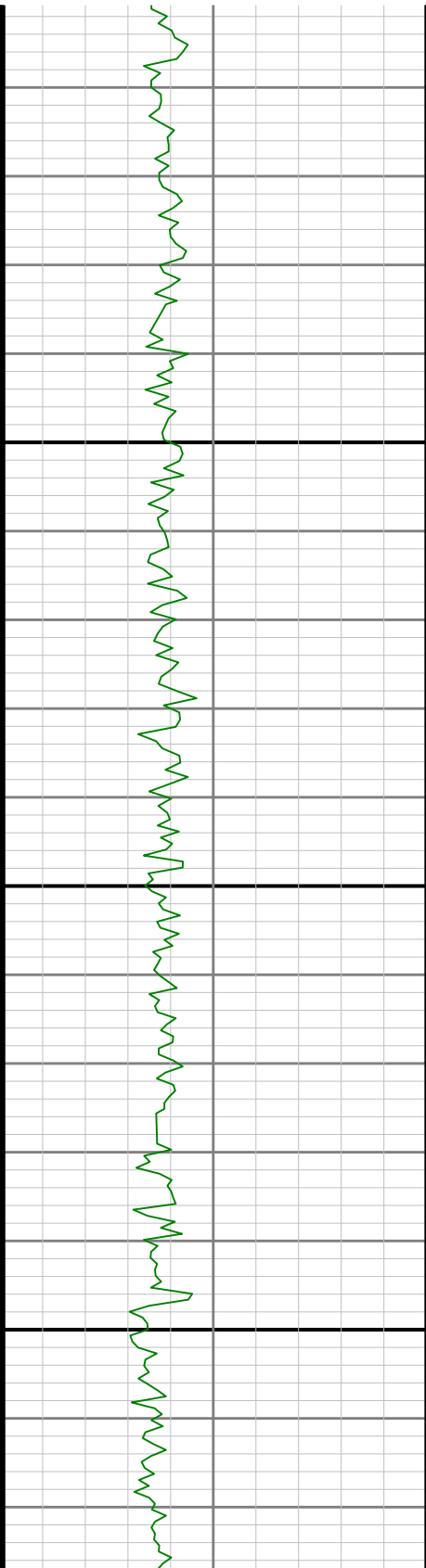


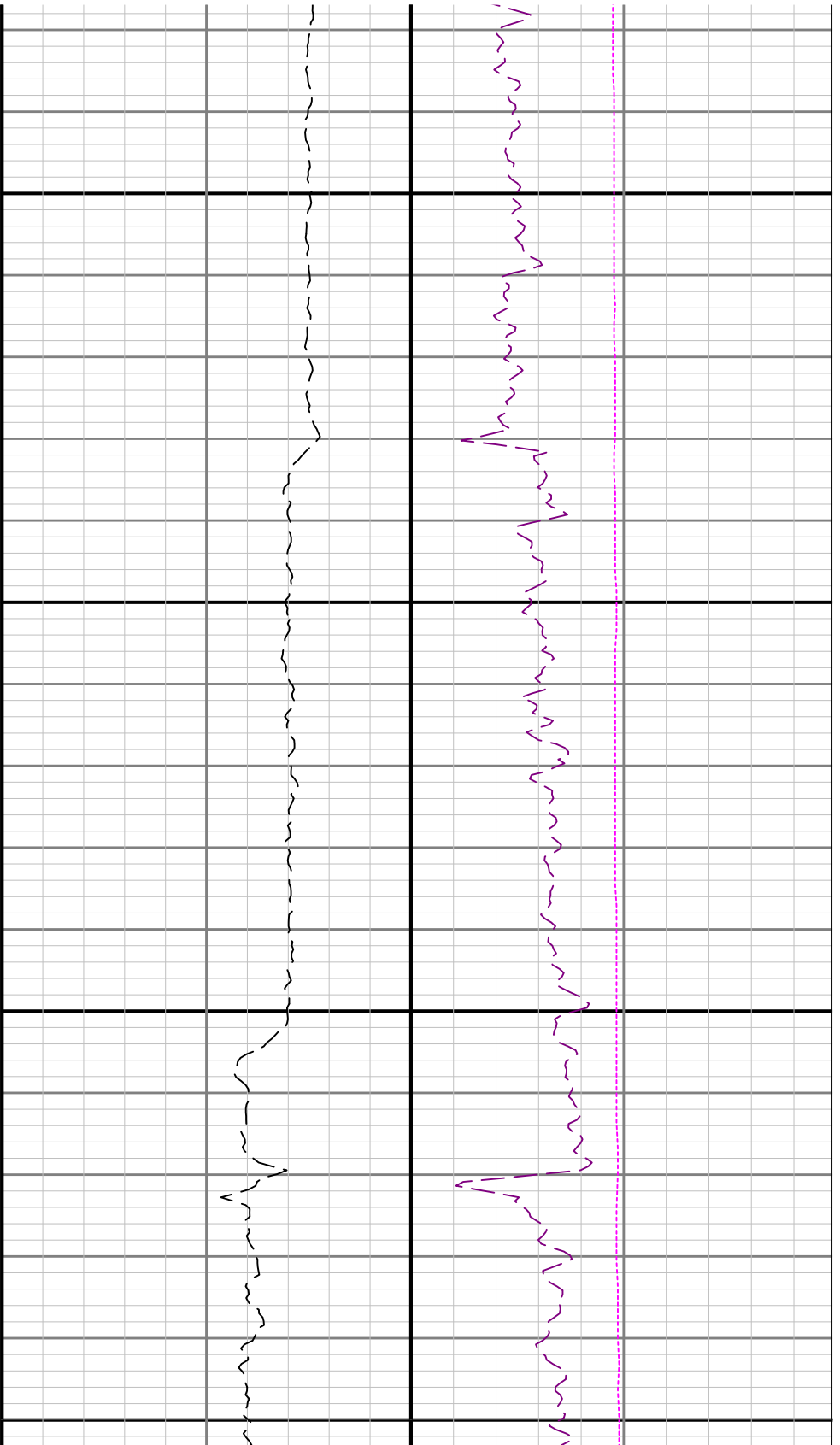




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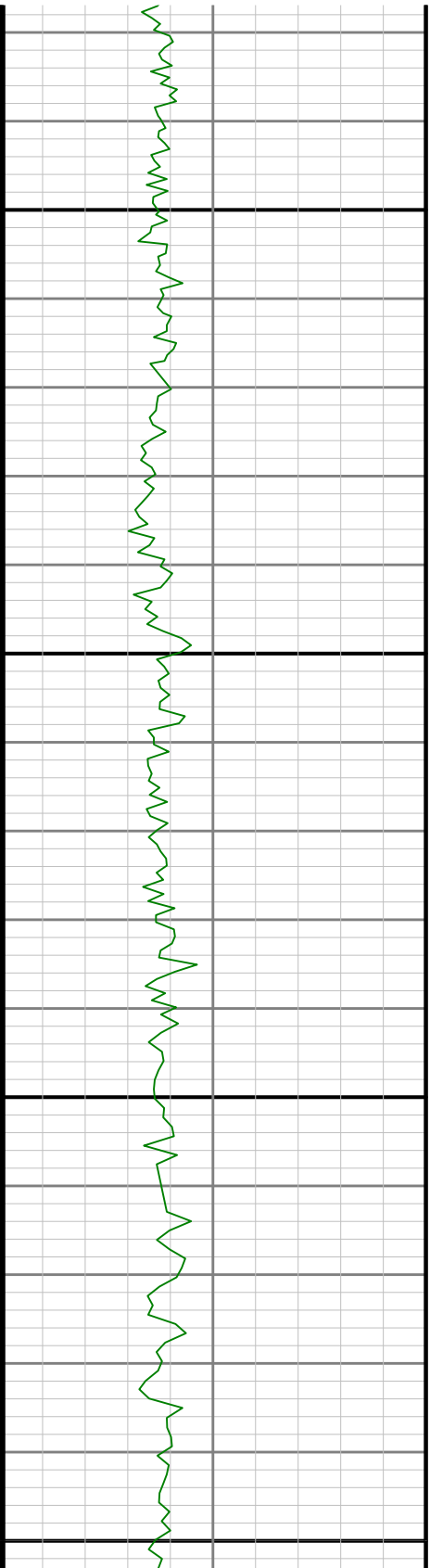
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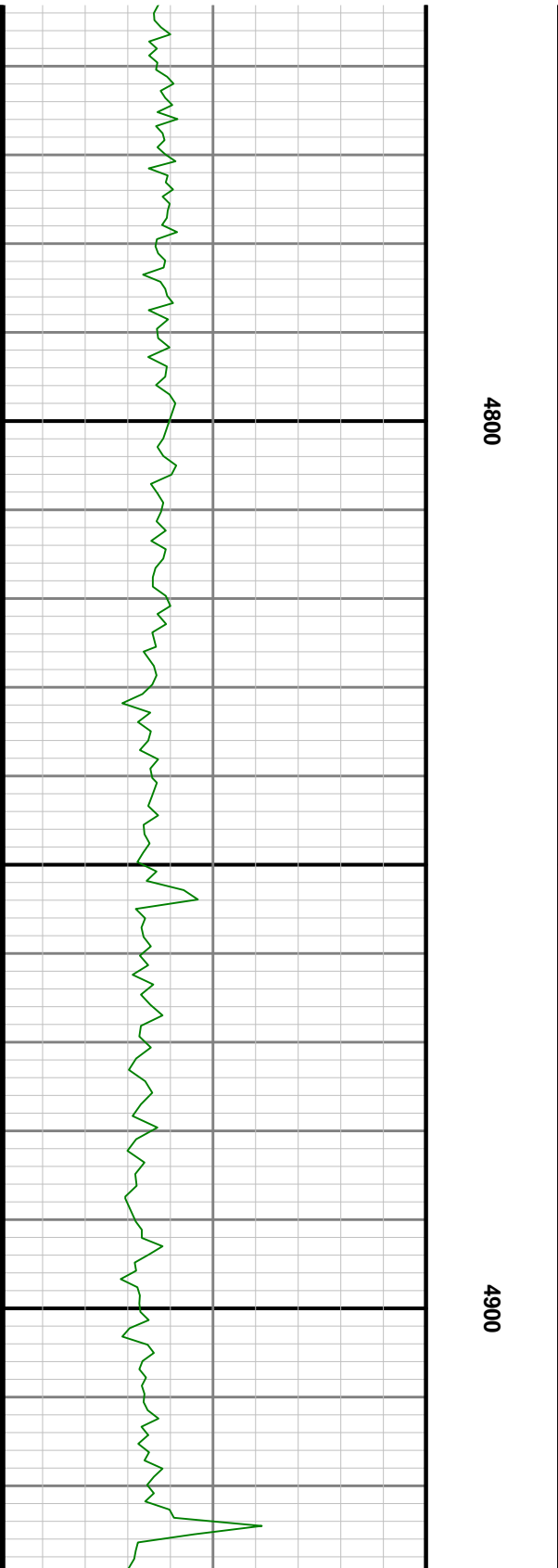


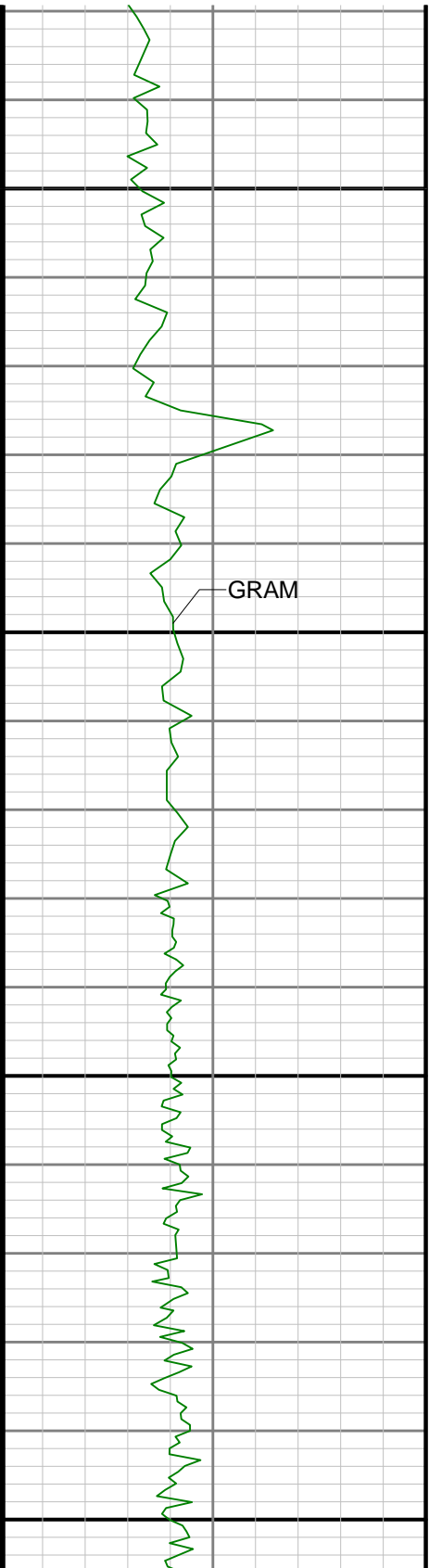


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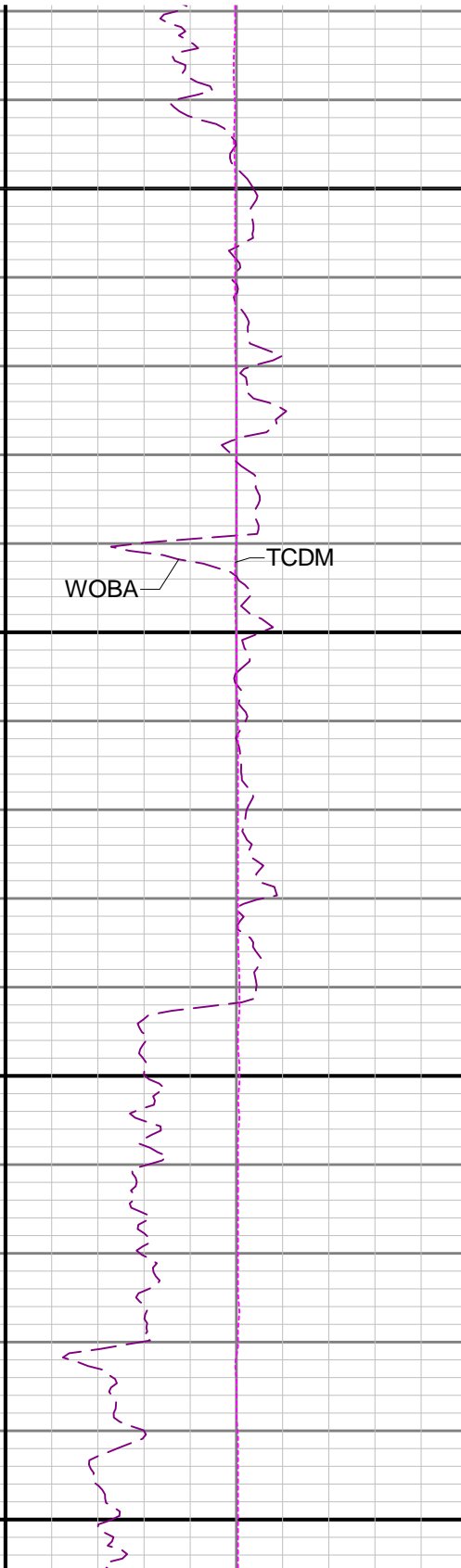
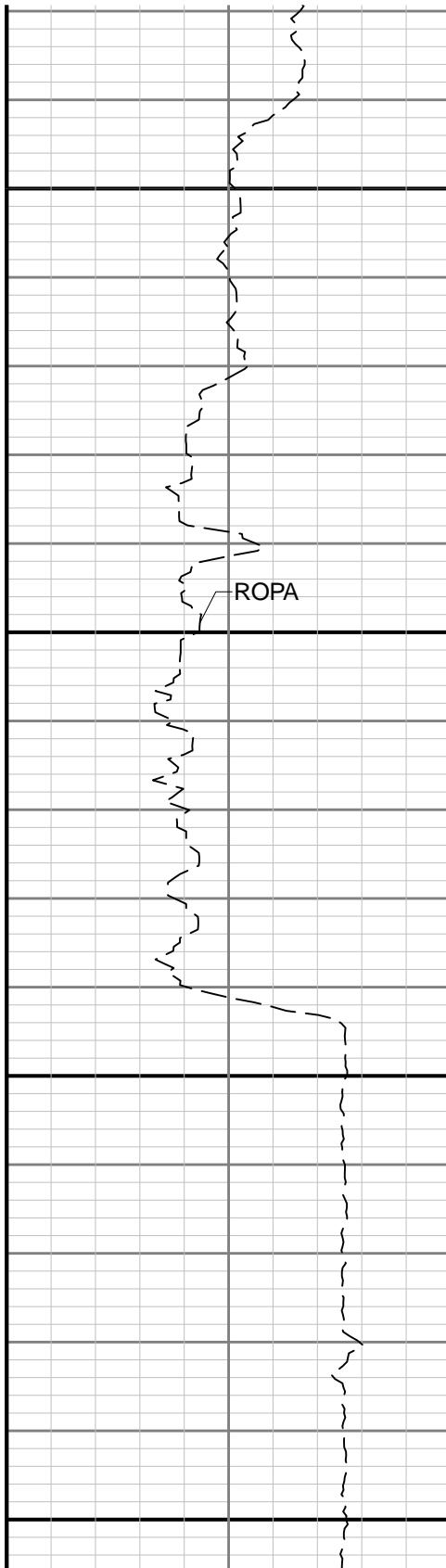


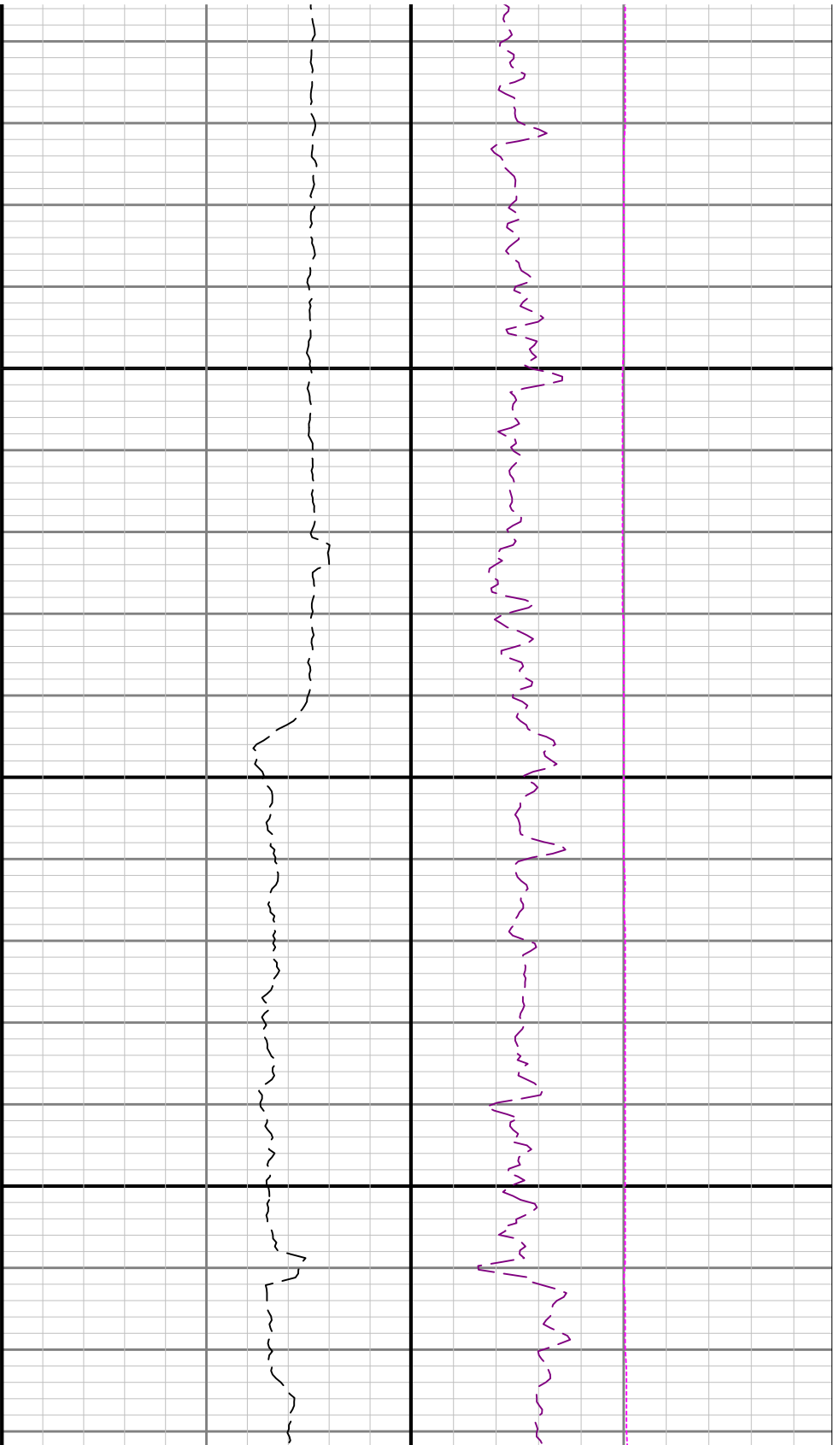




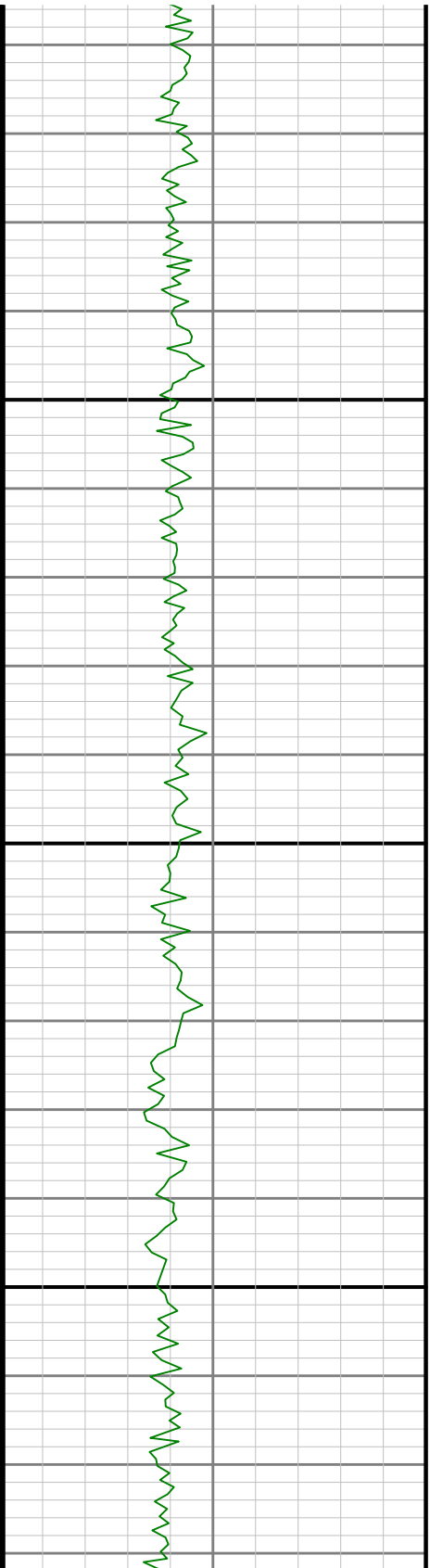
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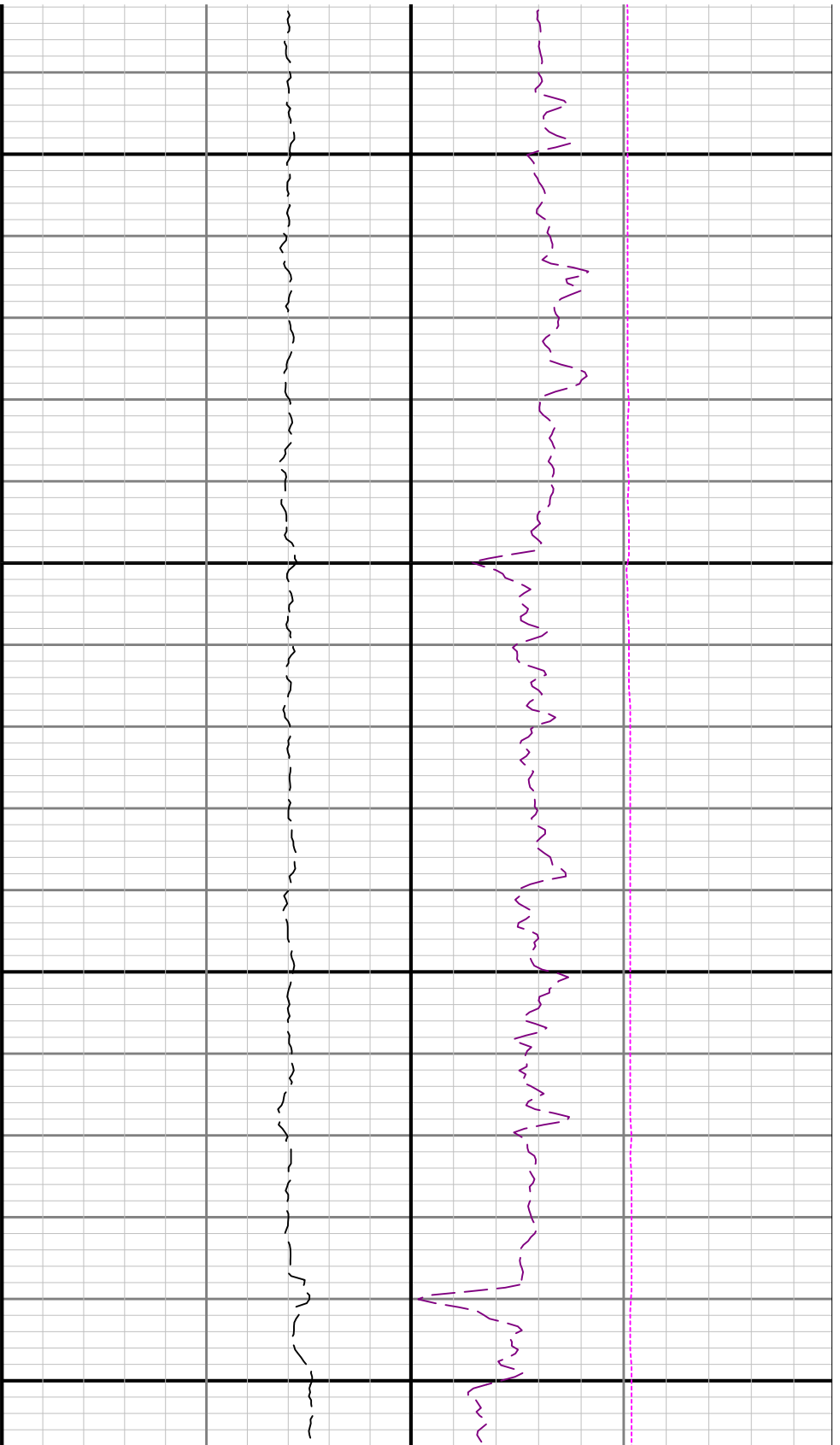
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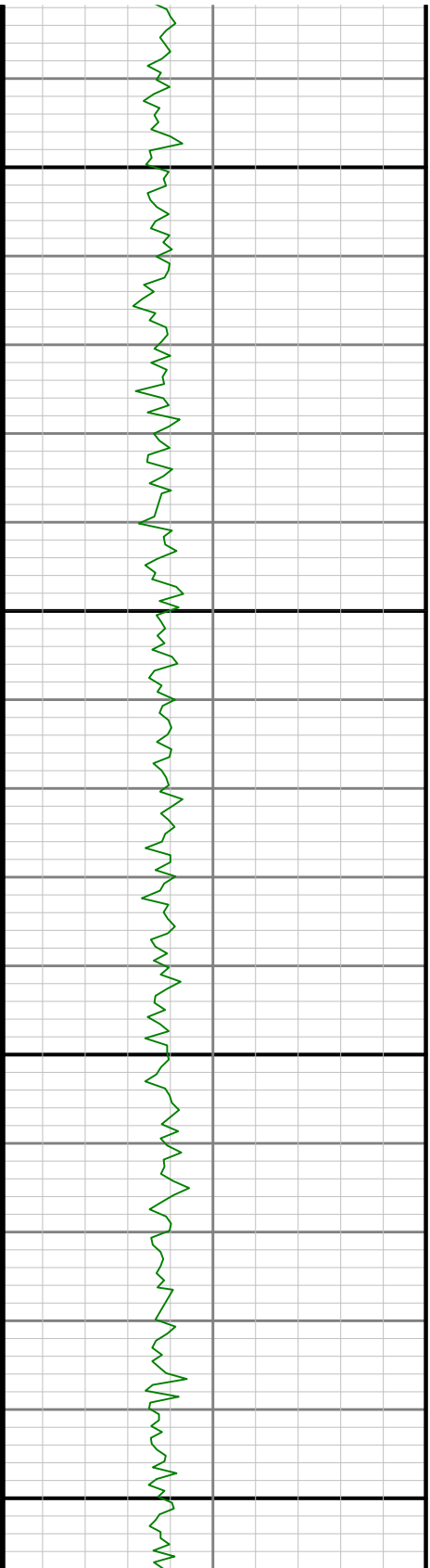
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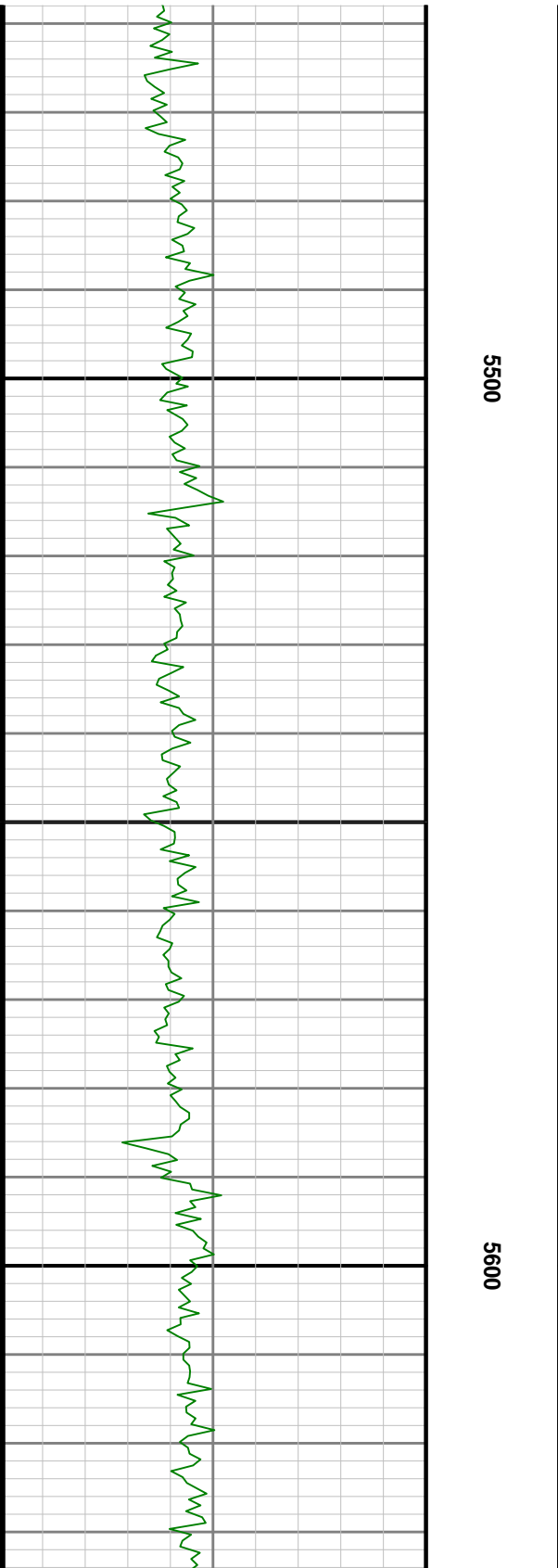
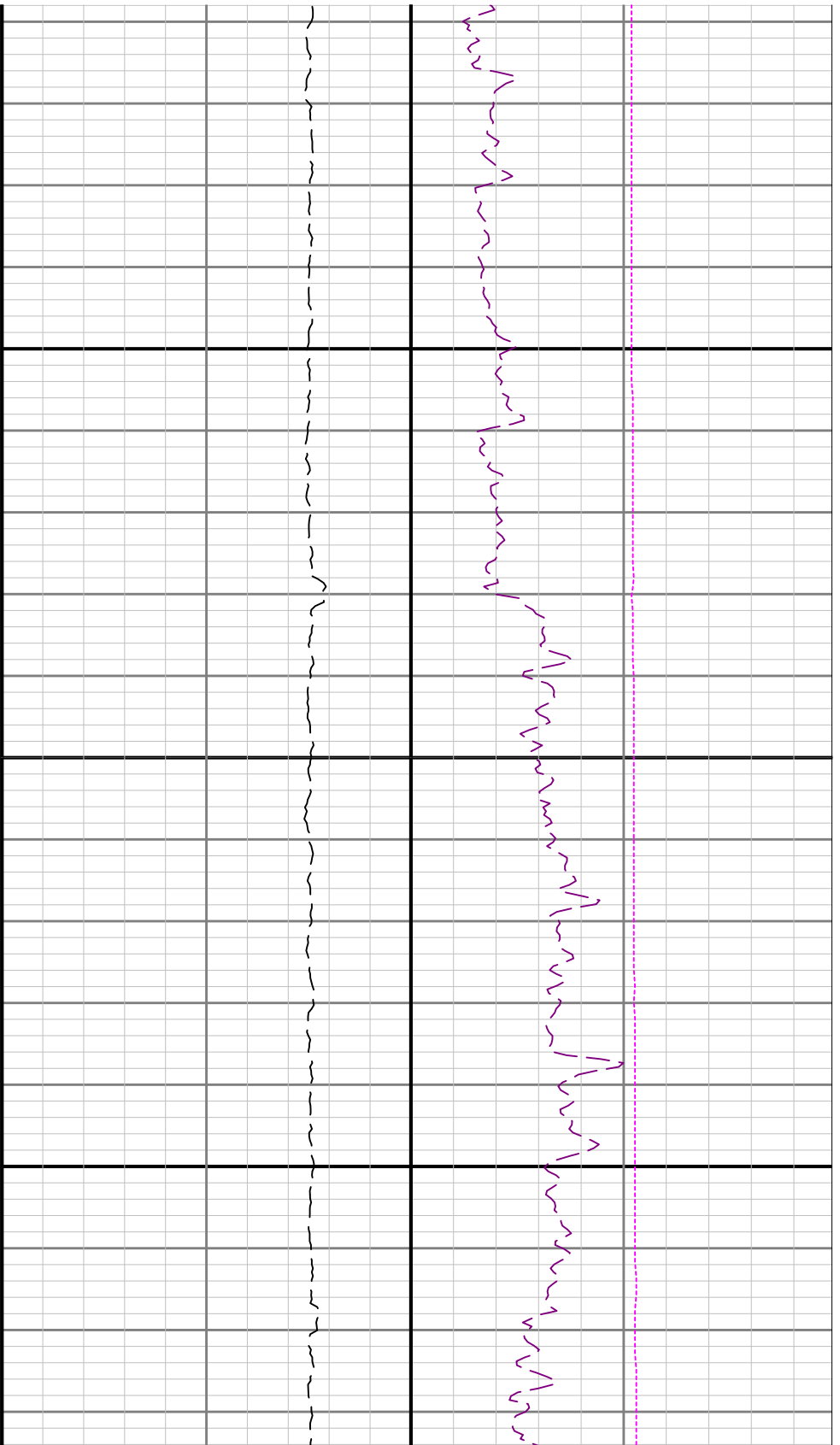


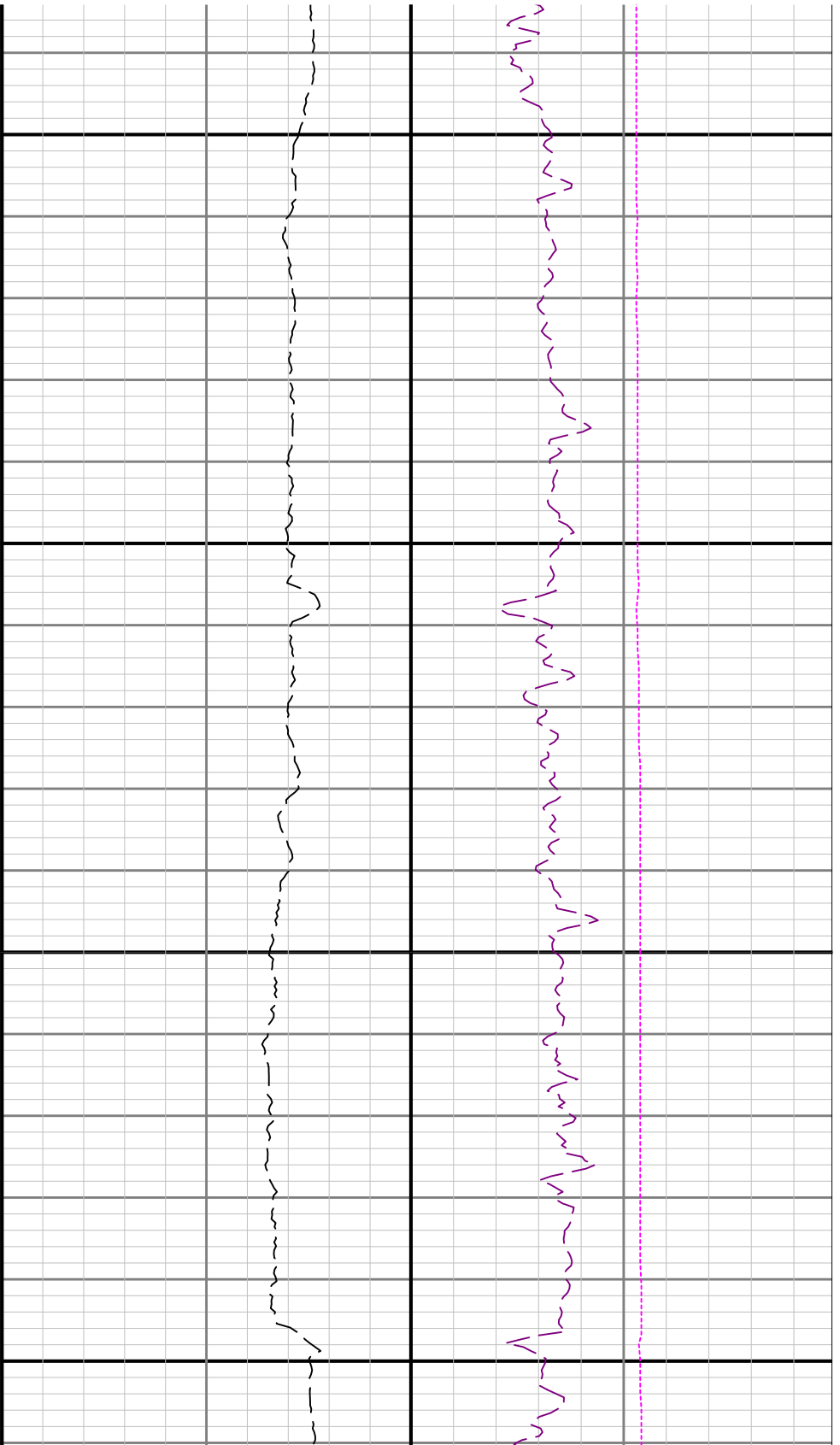


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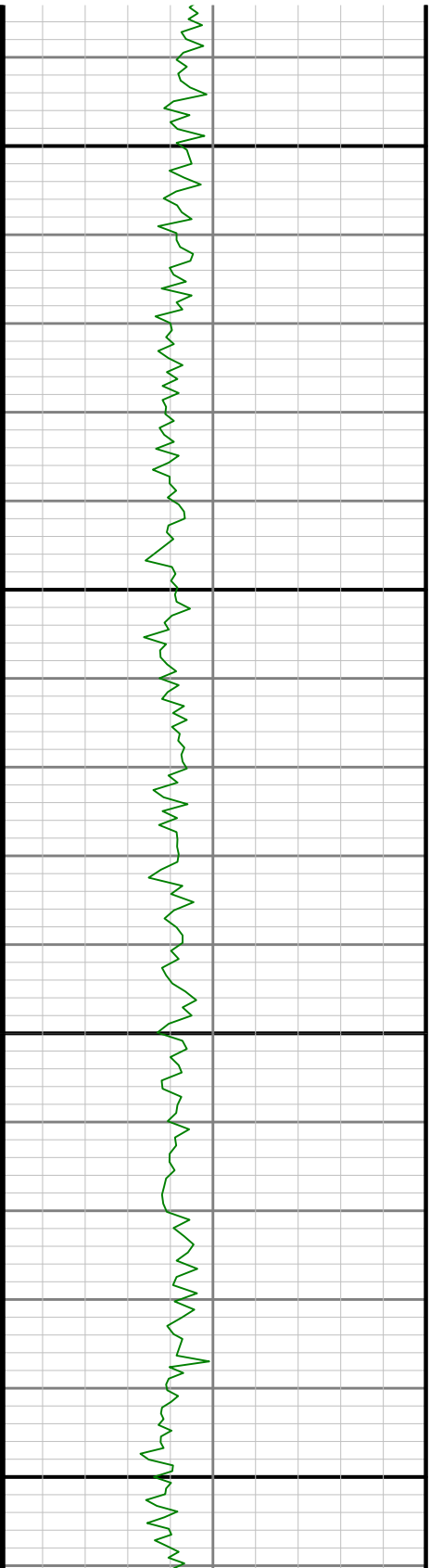






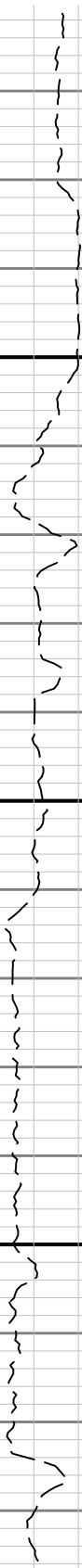
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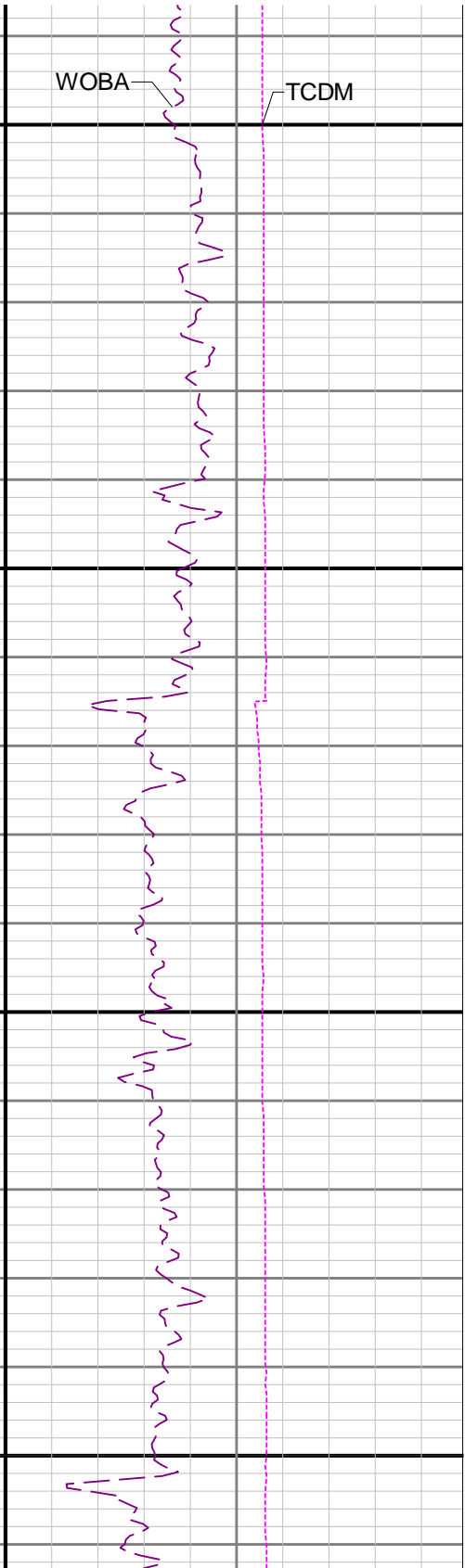
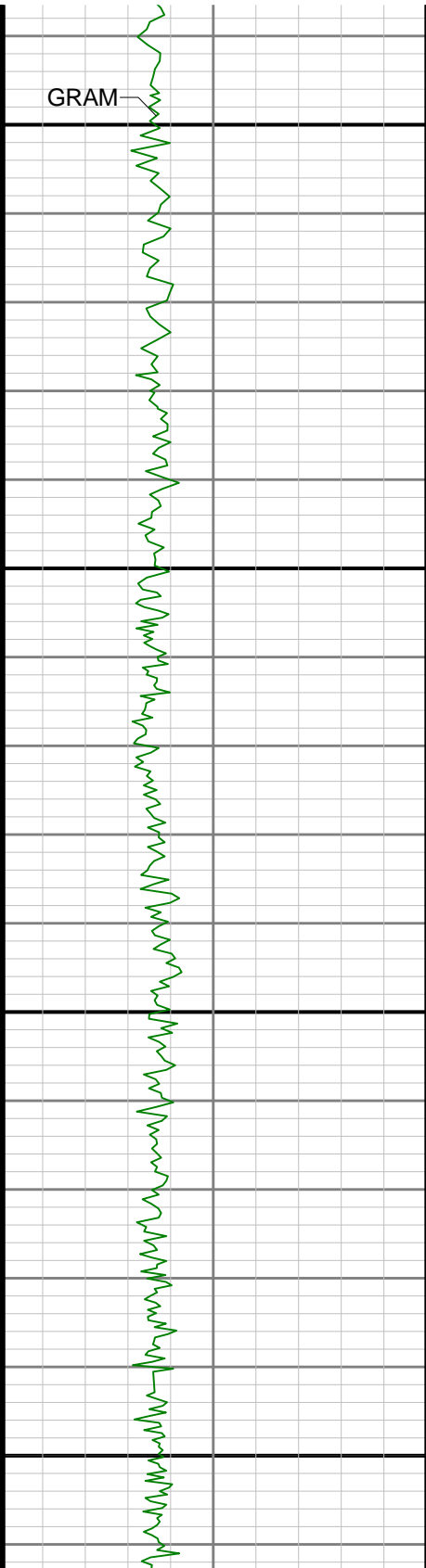
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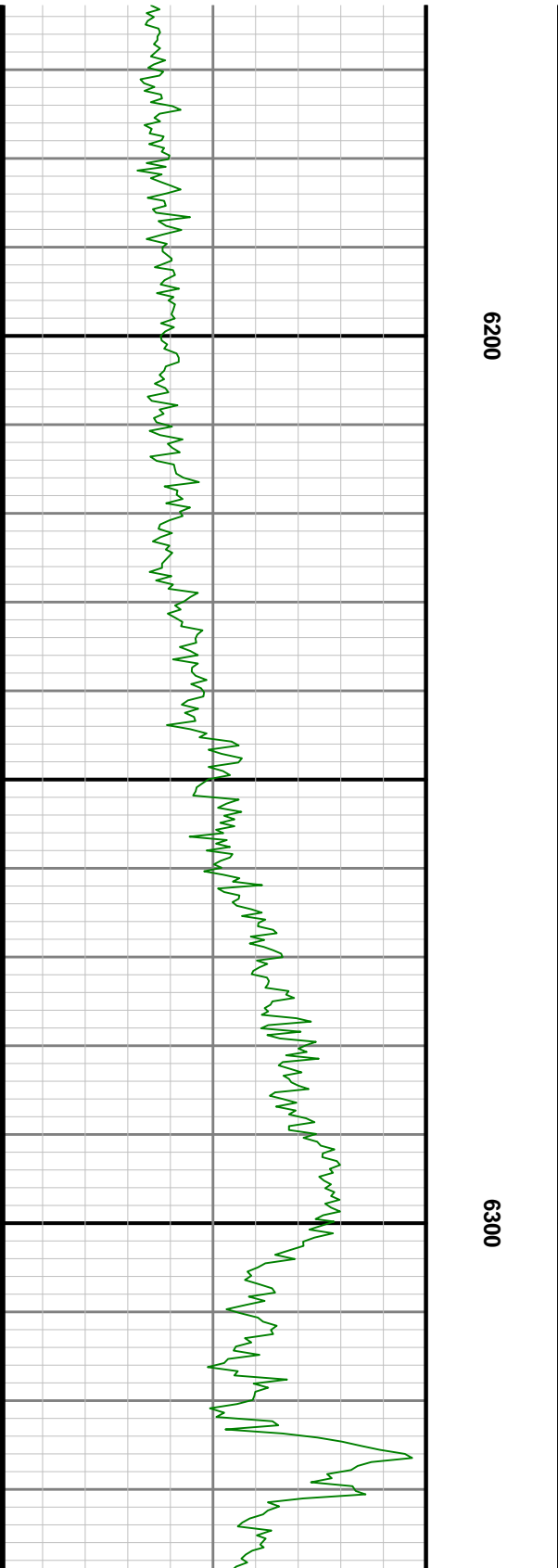
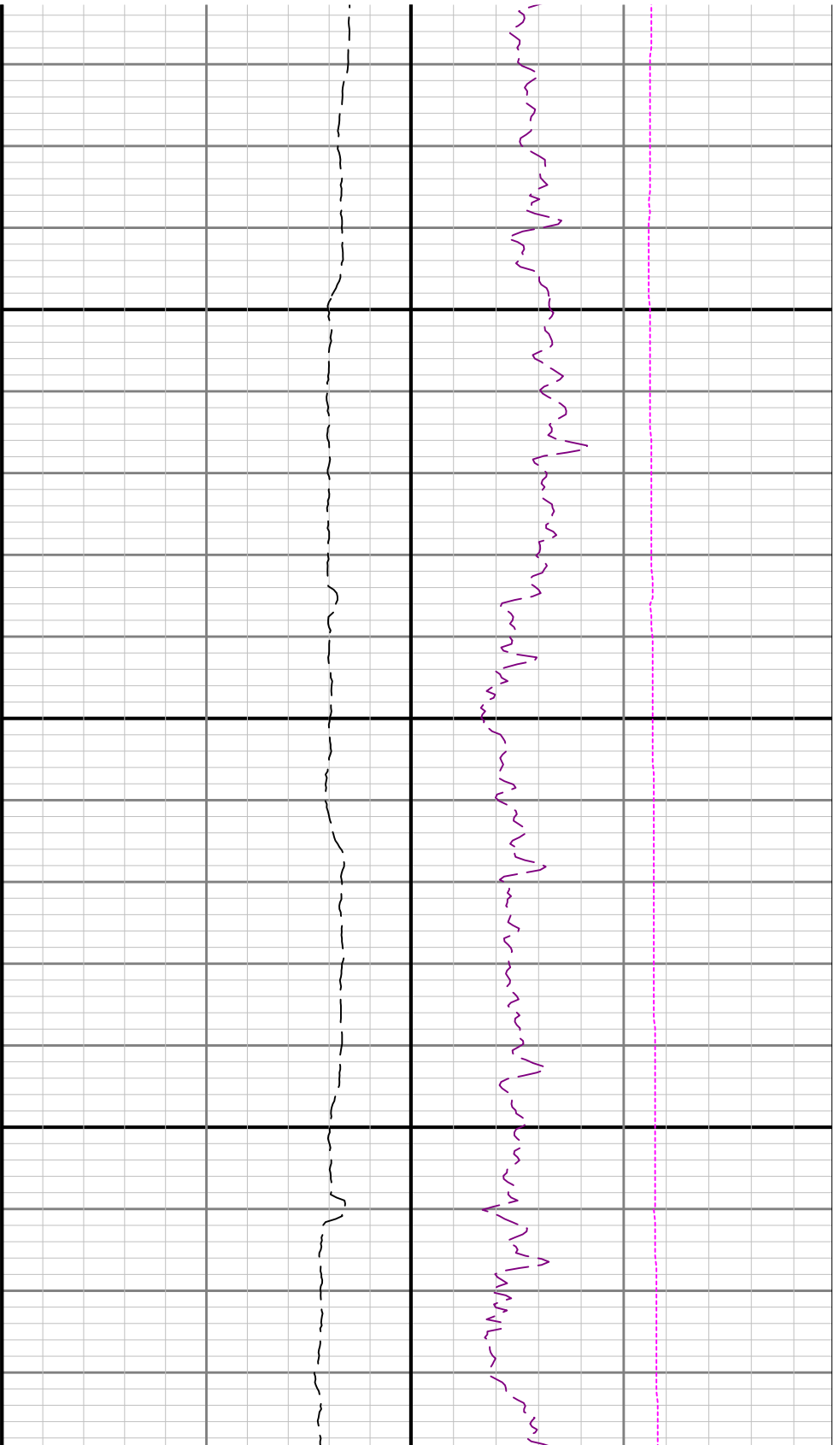


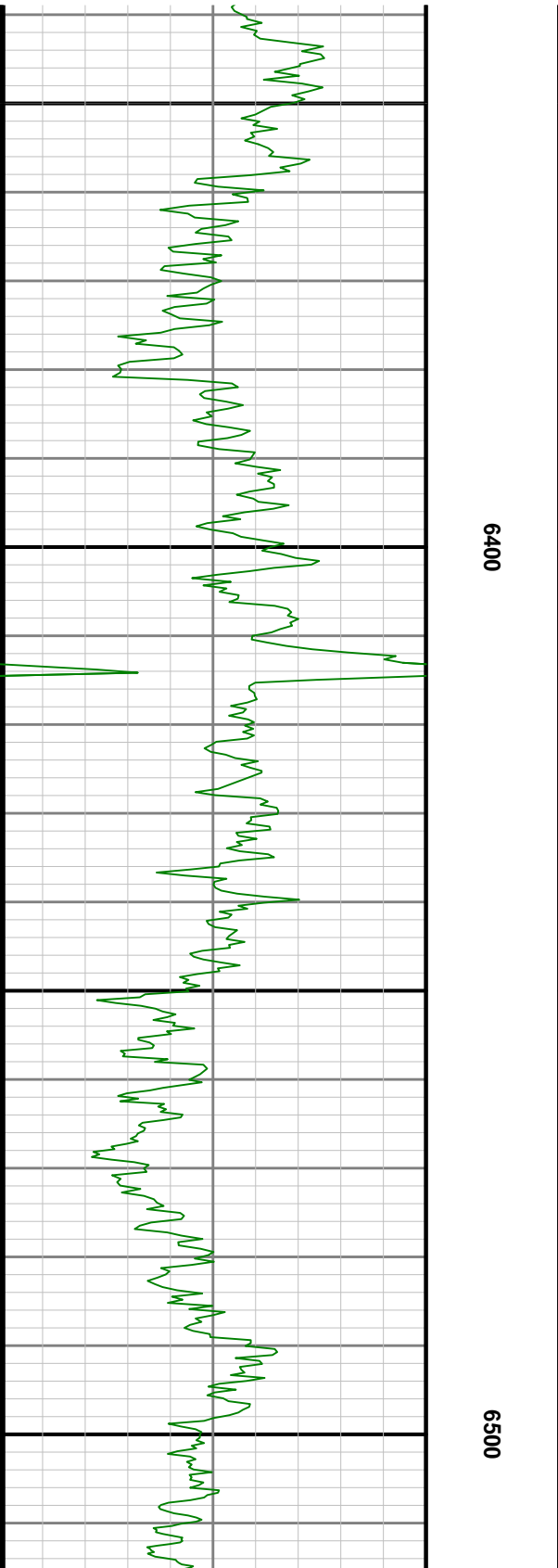
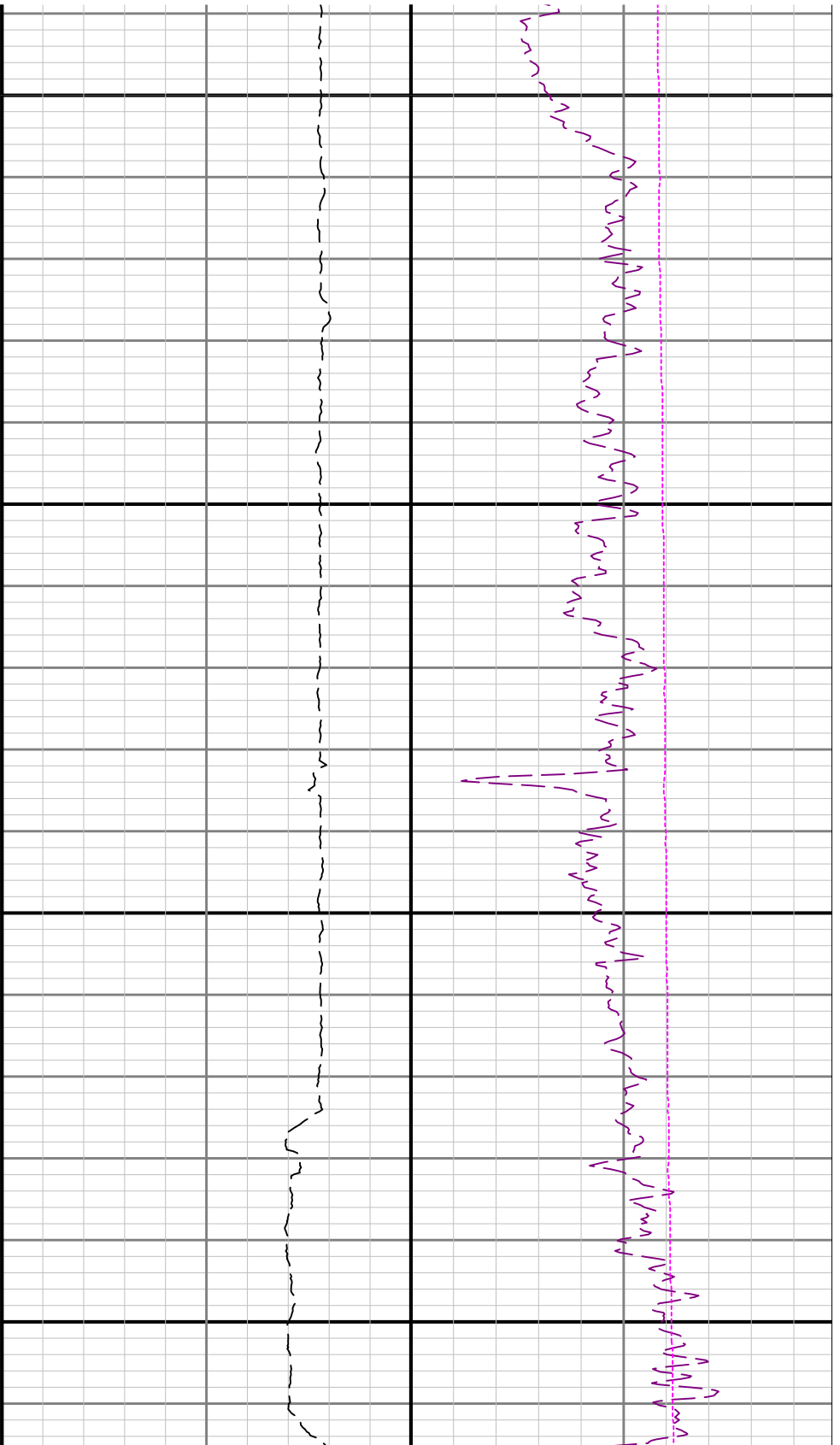


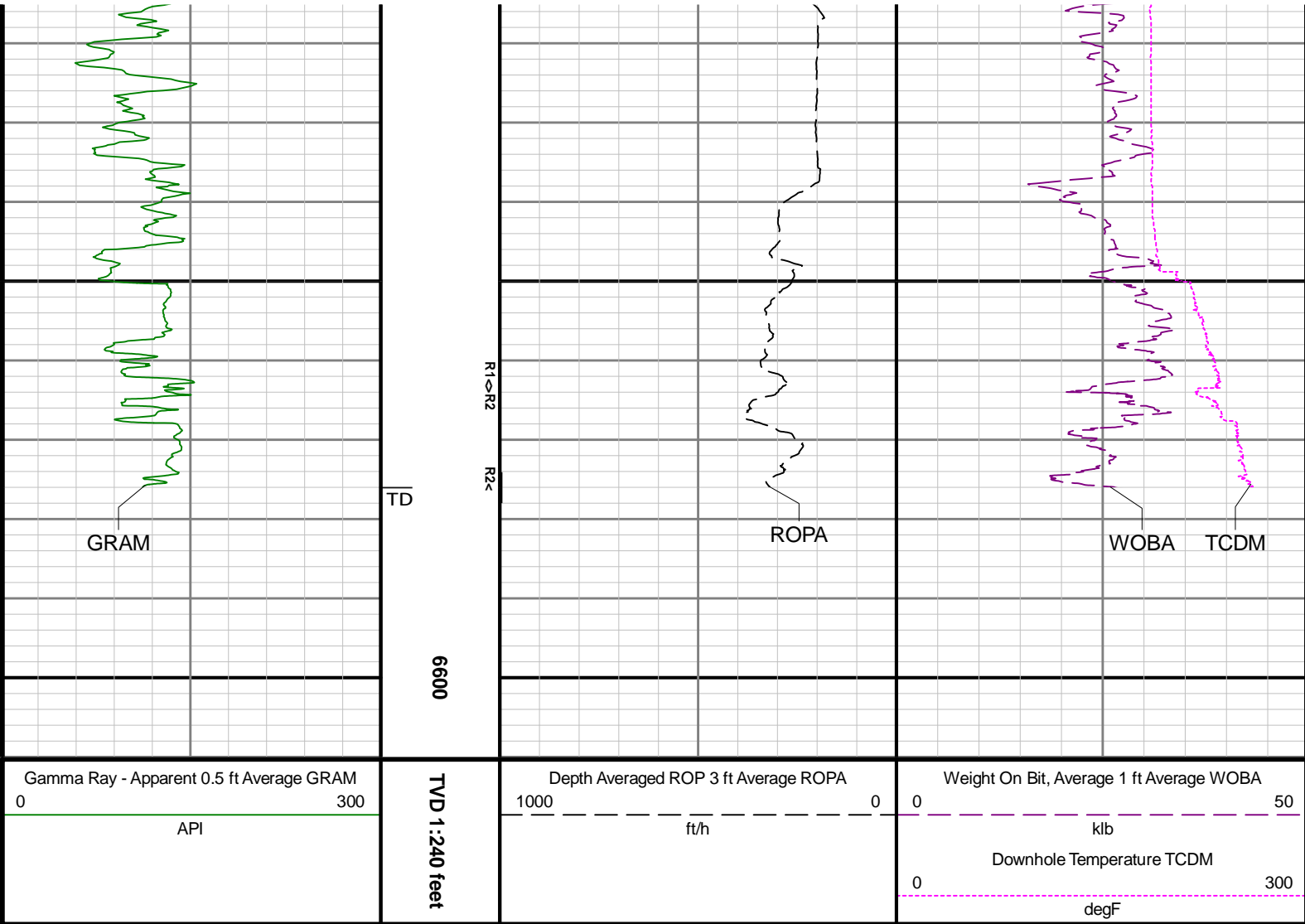
5900











Directional Survey Summary

|                                 |                    |                             |                    |
|---------------------------------|--------------------|-----------------------------|--------------------|
| Latitude:                       | 040° 26' 30.048" N | Longitude:                  | 104° 21' 13.680" W |
| North Reference:                | Grid               | Drill Depth Zero:           | Rig Floor          |
| Vertical Datum is:              | Ground Level       | Vertical Datum to DDZ: (ft) | 30.00              |
| Vertical Section North: (ft)    | 0.00               | Vertical Section East: (ft) | 0.00               |
| Vertical Section Azimuth: (deg) | 269.10             |                             |                    |
| Grid Convergence: (deg)         | -0.74              | Magnetic Declination: (deg) | 7.74               |
| Total Correction: (deg)         | 7.00               | TVD Calculation Method:     | Minimum Curvature  |
| Magnetic Correction:            | Off                | Local Magnetic Field: (nT)  | 52027              |
| Local Magnetic Dip Angle: (deg) | 67.00              | Local Gravity Field: (m/s2) | 9.800              |

| Tie-In / Projection | Measured Depth<br>(ft) | Inclination<br>(deg) | Azimuth<br>(deg) | Temperature<br>(degF) | North<br>(ft) | East<br>(ft) | True Vertical Depth<br>(ft) | TVD Subsea<br>(ft) | Vertical Section<br>(ft) | Course Length<br>(ft) | Dog Leg Severity<br>(deg/100ft) | Build Rate<br>(deg/100ft) | Turn Rate<br>(deg/100ft) |
|---------------------|------------------------|----------------------|------------------|-----------------------|---------------|--------------|-----------------------------|--------------------|--------------------------|-----------------------|---------------------------------|---------------------------|--------------------------|
| Tie-In              | 0.00                   | 0.00                 | 0.00             | N/A                   | 0.00          | 0.00         | 0.00                        | -4756.00           | 0.00                     | 0.00                  | 0.00                            | 0.00                      | 0.00                     |
|                     | 555.00                 | 0.05                 | 327.97           | N/A                   | 0.21          | -0.13        | 555.00                      | -4201.00           | 0.13                     | 555.00                | 0.01                            | 0.01                      | -5.77                    |
|                     | 650.00                 | 0.21                 | 87.92            | N/A                   | 0.25          | 0.02         | 650.00                      | -4106.00           | -0.03                    | 95.00                 | 0.25                            | 0.17                      | 126.26                   |
|                     | 744.00                 | 0.51                 | 163.60           | N/A                   | -0.15         | 0.31         | 744.00                      | -4012.00           | -0.31                    | 94.00                 | 0.53                            | 0.32                      | 80.51                    |
|                     | 839.00                 | 0.56                 | 214.48           | N/A                   | -0.94         | 0.17         | 838.99                      | -3917.01           | -0.16                    | 95.00                 | 0.49                            | 0.05                      | 53.56                    |

|  |         |       |        |       |       |         |         |          |        |       |      |       |         |
|--|---------|-------|--------|-------|-------|---------|---------|----------|--------|-------|------|-------|---------|
|  | 933.00  | 0.36  | 194.04 | N/A   | -1.60 | -0.16   | 932.99  | -3823.01 | 0.19   | 94.00 | 0.27 | -0.21 | -21.74  |
|  | 1028.00 | 0.34  | 145.61 | N/A   | -2.12 | -0.07   | 1027.99 | -3728.01 | 0.11   | 95.00 | 0.30 | -0.02 | -50.98  |
|  | 1122.00 | 0.02  | 315.82 | N/A   | -2.34 | 0.07    | 1121.99 | -3634.01 | -0.03  | 94.00 | 0.38 | -0.34 | 181.07  |
|  | 1217.00 | 0.17  | 49.00  | N/A   | -2.24 | 0.17    | 1216.99 | -3539.01 | -0.13  | 95.00 | 0.18 | 0.16  | 98.08   |
|  | 1311.00 | 0.14  | 89.84  | N/A   | -2.15 | 0.39    | 1310.99 | -3445.01 | -0.35  | 94.00 | 0.12 | -0.03 | 43.45   |
|  | 1405.00 | 0.25  | 138.57 | N/A   | -2.30 | 0.64    | 1404.99 | -3351.01 | -0.60  | 94.00 | 0.20 | 0.12  | 51.84   |
|  | 1500.00 | 0.22  | 166.38 | N/A   | -2.63 | 0.82    | 1499.99 | -3256.01 | -0.78  | 95.00 | 0.12 | -0.03 | 29.27   |
|  | 1594.00 | 0.15  | 63.85  | N/A   | -2.75 | 0.97    | 1593.99 | -3162.01 | -0.93  | 94.00 | 0.31 | -0.07 | -109.07 |
|  | 1688.00 | 0.17  | 67.81  | N/A   | -2.65 | 1.21    | 1687.99 | -3068.01 | -1.17  | 94.00 | 0.02 | 0.02  | 4.21    |
|  | 1783.00 | 0.60  | 341.89 | N/A   | -2.12 | 1.19    | 1782.99 | -2973.01 | -1.15  | 95.00 | 0.64 | 0.45  | -90.44  |
|  | 1878.00 | 0.94  | 332.48 | N/A   | -0.96 | 0.67    | 1877.98 | -2878.02 | -0.66  | 95.00 | 0.38 | 0.36  | -9.91   |
|  | 1936.00 | 0.71  | 319.82 | N/A   | -0.26 | 0.22    | 1935.97 | -2820.03 | -0.22  | 58.00 | 0.50 | -0.40 | -21.83  |
|  | 1977.00 | 0.28  | 333.04 | 87.8  | 0.02  | 0.01    | 1976.97 | -2779.03 | -0.01  | 41.00 | 1.08 | -1.05 | 32.24   |
|  | 2071.00 | 0.35  | 59.42  | 87.8  | 0.37  | 0.15    | 2070.97 | -2685.03 | -0.16  | 94.00 | 0.46 | 0.07  | 91.89   |
|  | 2166.00 | 0.48  | 257.66 | 93.2  | 0.44  | 0.01    | 2165.97 | -2590.03 | -0.02  | 95.00 | 0.86 | 0.14  | -170.27 |
|  | 2261.00 | 0.68  | 165.96 | 96.0  | -0.20 | -0.24   | 2260.96 | -2495.04 | 0.24   | 95.00 | 0.89 | 0.21  | -96.53  |
|  | 2355.00 | 0.03  | 173.76 | 98.7  | -0.76 | -0.10   | 2354.96 | -2401.04 | 0.11   | 94.00 | 0.69 | -0.69 | 8.30    |
|  | 2450.00 | 0.28  | 98.65  | 101.4 | -0.82 | 0.13    | 2449.96 | -2306.04 | -0.12  | 95.00 | 0.29 | 0.26  | -79.06  |
|  | 2544.00 | 0.31  | 188.29 | 101.4 | -1.11 | 0.32    | 2543.96 | -2212.04 | -0.31  | 94.00 | 0.44 | 0.03  | 95.36   |
|  | 2639.00 | 0.42  | 38.92  | 104.1 | -1.09 | 0.50    | 2638.96 | -2117.04 | -0.49  | 95.00 | 0.74 | 0.12  | -157.23 |
|  | 2733.00 | 0.32  | 179.92 | 106.8 | -1.08 | 0.72    | 2732.96 | -2023.04 | -0.70  | 94.00 | 0.74 | -0.11 | 150.00  |
|  | 2828.00 | 0.09  | 227.72 | 106.8 | -1.40 | 0.67    | 2827.96 | -1928.04 | -0.64  | 95.00 | 0.28 | -0.24 | 50.32   |
|  | 2922.00 | 0.03  | 303.76 | 109.5 | -1.44 | 0.59    | 2921.96 | -1834.04 | -0.57  | 94.00 | 0.09 | -0.06 | 80.89   |
|  | 3017.00 | 0.09  | 234.60 | 109.5 | -1.47 | 0.51    | 3016.96 | -1739.04 | -0.49  | 95.00 | 0.09 | 0.06  | -72.80  |
|  | 3112.00 | 0.03  | 8.95   | 112.2 | -1.48 | 0.45    | 3111.96 | -1644.04 | -0.43  | 95.00 | 0.12 | -0.06 | 141.42  |
|  | 3206.00 | 0.12  | 87.49  | 112.2 | -1.46 | 0.55    | 3205.96 | -1550.04 | -0.53  | 94.00 | 0.13 | 0.10  | 83.55   |
|  | 3301.00 | 0.42  | 0.14   | 114.9 | -1.10 | 0.66    | 3300.96 | -1455.04 | -0.64  | 95.00 | 0.45 | 0.32  | -91.95  |
|  | 3395.00 | 0.34  | 241.47 | 117.6 | -0.89 | 0.41    | 3394.96 | -1361.04 | -0.40  | 94.00 | 0.70 | -0.09 | -126.24 |
|  | 3490.00 | 0.04  | 339.96 | 117.6 | -1.00 | 0.15    | 3489.96 | -1266.04 | -0.14  | 95.00 | 0.37 | -0.32 | 103.67  |
|  | 3585.00 | 0.15  | 295.52 | 117.6 | -0.91 | 0.03    | 3584.95 | -1171.05 | -0.01  | 95.00 | 0.13 | 0.12  | -46.78  |
|  | 3679.00 | 0.81  | 270.62 | 120.3 | -0.85 | -0.75   | 3678.95 | -1077.05 | 0.76   | 94.00 | 0.72 | 0.70  | -26.49  |
|  | 3774.00 | 2.84  | 296.76 | 123.0 | 0.22  | -3.52   | 3773.90 | -982.10  | 3.52   | 95.00 | 2.26 | 2.14  | 27.52   |
|  | 3869.00 | 4.47  | 295.85 | 128.4 | 2.89  | -8.95   | 3868.70 | -887.30  | 8.91   | 95.00 | 1.72 | 1.72  | -0.96   |
|  | 3963.00 | 6.64  | 280.98 | 131.1 | 5.52  | -17.59  | 3962.26 | -793.74  | 17.50  | 94.00 | 2.75 | 2.31  | -15.82  |
|  | 4058.00 | 8.30  | 280.76 | 133.8 | 7.85  | -29.72  | 4056.45 | -699.55  | 29.59  | 95.00 | 1.75 | 1.75  | -0.23   |
|  | 4152.00 | 10.10 | 280.20 | 133.8 | 10.58 | -44.49  | 4149.24 | -606.76  | 44.32  | 94.00 | 1.92 | 1.91  | -0.60   |
|  | 4247.00 | 11.97 | 282.26 | 136.5 | 14.14 | -62.32  | 4242.48 | -513.52  | 62.09  | 95.00 | 2.01 | 1.97  | 2.17    |
|  | 4341.00 | 13.71 | 282.72 | 139.2 | 18.67 | -82.71  | 4334.12 | -421.88  | 82.41  | 94.00 | 1.85 | 1.85  | 0.49    |
|  | 4436.00 | 15.26 | 279.47 | 141.9 | 23.20 | -106.03 | 4426.10 | -329.90  | 105.65 | 95.00 | 1.84 | 1.63  | -3.42   |
|  | 4530.00 | 15.64 | 276.72 | 141.9 | 26.72 | -130.82 | 4516.71 | -239.29  | 130.38 | 94.00 | 0.88 | 0.40  | -2.93   |
|  | 4625.00 | 17.29 | 274.68 | 144.6 | 29.37 | -157.61 | 4607.81 | -148.19  | 157.12 | 95.00 | 1.84 | 1.74  | -2.15   |
|  | 4720.00 | 18.74 | 278.55 | 144.6 | 32.79 | -186.77 | 4698.15 | -57.85   | 186.23 | 95.00 | 1.98 | 1.53  | 4.07    |
|  | 4814.00 | 18.76 | 280.31 | 147.3 | 37.74 | -216.57 | 4787.16 | 31.16    | 215.95 | 94.00 | 0.60 | 0.02  | 1.87    |
|  | 4909.00 | 18.50 | 271.35 | 147.3 | 40.83 | -246.68 | 4877.21 | 121.21   | 246.00 | 95.00 | 3.02 | -0.27 | -9.43   |
|  | 5003.00 | 17.90 | 265.27 | 150.0 | 39.99 | -275.99 | 4966.51 | 210.51   | 275.32 | 94.00 | 2.12 | -0.64 | -6.47   |
|  | 5098.00 | 15.01 | 267.39 | 150.0 | 38.23 | -302.83 | 5057.61 | 301.61   | 302.19 | 95.00 | 3.11 | -3.04 | 2.23    |
|  | 5192.00 | 16.38 | 279.56 | 150.0 | 39.88 | -328.07 | 5148.13 | 392.13   | 327.40 | 94.00 | 3.78 | 1.46  | 12.95   |
|  | 5286.00 | 18.15 | 287.09 | 150.0 | 46.38 | -355.14 | 5237.90 | 481.90   | 354.37 | 94.00 | 3.03 | 1.88  | 8.01    |
|  | 5380.00 | 18.48 | 290.05 | 152.7 | 55.79 | -383.13 | 5327.14 | 571.14   | 382.20 | 94.00 | 1.05 | 0.35  | 3.15    |
|  | 5474.00 | 18.36 | 290.08 | 155.4 | 65.98 | -411.03 | 5416.32 | 660.32   | 409.94 | 94.00 | 0.13 | -0.13 | 0.03    |
|  | 5569.00 | 18.83 | 289.45 | 155.4 | 76.22 | -439.54 | 5506.37 | 750.37   | 438.28 | 95.00 | 0.54 | 0.49  | -0.66   |
|  | 5663.00 | 18.65 | 281.67 | 158.1 | 84.32 | -468.56 | 5595.40 | 839.40   | 467.18 | 94.00 | 2.66 | -0.19 | -8.28   |
|  | 5758.00 | 18.65 | 276.46 | 158.1 | 89.10 | -498.54 | 5685.41 | 929.41   | 497.07 | 95.00 | 1.75 | -0.01 | -5.48   |
|  | 5852.00 | 18.37 | 280.55 | 160.8 | 93.50 | -528.03 | 5774.55 | 1018.55  | 526.50 | 94.00 | 1.41 | -0.30 | 4.35    |
|  | 5947.00 | 18.74 | 274.20 | 163.5 | 97.36 | -557.97 | 5864.63 | 1108.63  | 556.37 | 95.00 | 2.16 | 0.39  | -6.68   |
|  | 6041.00 | 18.69 | 266.68 | 166.2 | 97.59 | -588.07 | 5953.67 | 1197.67  | 586.47 | 94.00 | 2.57 | -0.05 | -8.00   |
|  | 6136.00 | 18.64 | 259.99 | 166.2 | 94.07 | -618.22 | 6043.68 | 1287.68  | 616.67 | 95.00 | 2.25 | -0.05 | -7.04   |
|  | 6230.00 | 23.56 | 251.79 | 168.9 | 85.58 | -650.89 | 6131.37 | 1375.37  | 649.46 | 94.00 | 6.09 | 5.23  | -8.72   |
|  | 6325.00 | 32.03 | 260.13 | 168.9 | 75.31 | -693.84 | 6215.37 | 1459.37  | 692.57 | 95.00 | 9.79 | 8.92  | 8.78    |

|  |          |       |        |       |        |          |         |         |         |        |       |       |       |
|--|----------|-------|--------|-------|--------|----------|---------|---------|---------|--------|-------|-------|-------|
|  | 6419.00  | 39.23 | 268.32 | 171.6 | 70.16  | -748.21  | 6291.76 | 1535.76 | 747.02  | 94.00  | 9.17  | 7.66  | 8.71  |
|  | 6514.00  | 46.79 | 272.38 | 174.3 | 70.71  | -812.93  | 6361.19 | 1605.19 | 811.72  | 95.00  | 8.47  | 7.96  | 4.27  |
|  | 6608.00  | 54.19 | 265.37 | 179.7 | 69.06  | -885.31  | 6421.00 | 1665.00 | 884.11  | 94.00  | 9.74  | 7.87  | -7.46 |
|  | 6703.00  | 62.51 | 260.63 | 179.7 | 59.06  | -965.45  | 6470.83 | 1714.83 | 964.40  | 95.00  | 9.73  | 8.76  | -4.99 |
|  | 6797.00  | 70.18 | 262.95 | 182.5 | 46.83  | -1050.61 | 6508.52 | 1752.52 | 1049.74 | 94.00  | 8.47  | 8.16  | 2.47  |
|  | 6892.00  | 79.16 | 268.37 | 185.2 | 40.00  | -1141.84 | 6533.63 | 1777.63 | 1141.07 | 95.00  | 10.93 | 9.45  | 5.71  |
|  | 6987.00  | 86.67 | 274.43 | 187.9 | 42.34  | -1235.97 | 6545.35 | 1789.35 | 1235.15 | 95.00  | 10.12 | 7.91  | 6.38  |
|  | 7081.00  | 89.60 | 276.02 | 193.3 | 50.90  | -1329.52 | 6548.40 | 1792.40 | 1328.55 | 94.00  | 3.55  | 3.12  | 1.69  |
|  | 7176.00  | 89.91 | 275.69 | 193.3 | 60.59  | -1424.02 | 6548.81 | 1792.81 | 1422.89 | 95.00  | 0.48  | 0.33  | -0.35 |
|  | 7271.00  | 90.71 | 271.29 | 193.3 | 66.37  | -1518.82 | 6548.30 | 1792.30 | 1517.59 | 95.00  | 4.71  | 0.84  | -4.63 |
|  | 7365.00  | 89.94 | 265.82 | 196.0 | 64.00  | -1612.75 | 6547.76 | 1791.76 | 1611.55 | 94.00  | 5.88  | -0.82 | -5.82 |
|  | 7460.00  | 90.31 | 263.87 | 196.0 | 55.46  | -1707.36 | 6547.56 | 1791.56 | 1706.28 | 95.00  | 2.09  | 0.39  | -2.05 |
|  | 7555.00  | 89.72 | 263.55 | 196.0 | 45.06  | -1801.79 | 6547.53 | 1791.53 | 1800.86 | 95.00  | 0.71  | -0.62 | -0.34 |
|  | 7649.00  | 89.75 | 263.97 | 201.4 | 34.84  | -1895.23 | 6547.97 | 1791.97 | 1894.45 | 94.00  | 0.45  | 0.03  | 0.45  |
|  | 7838.00  | 89.85 | 263.63 | 201.4 | 14.43  | -2083.12 | 6548.63 | 1792.63 | 2082.64 | 189.00 | 0.19  | 0.05  | -0.18 |
|  | 7933.00  | 89.66 | 262.93 | 204.1 | 3.31   | -2177.47 | 6549.03 | 1793.03 | 2177.15 | 95.00  | 0.76  | -0.20 | -0.74 |
|  | 8027.00  | 89.75 | 266.93 | 204.1 | -4.99  | -2271.08 | 6549.52 | 1793.52 | 2270.88 | 94.00  | 4.26  | 0.10  | 4.26  |
|  | 8122.00  | 89.88 | 274.98 | 206.8 | -3.41  | -2365.99 | 6549.82 | 1793.82 | 2365.75 | 95.00  | 8.47  | 0.14  | 8.47  |
|  | 8312.00  | 89.97 | 274.88 | 277.1 | 12.92  | -2555.29 | 6550.07 | 1794.07 | 2554.77 | 190.00 | 0.07  | 0.05  | -0.05 |
|  | 8406.00  | 90.46 | 272.74 | 209.5 | 19.16  | -2649.07 | 6549.72 | 1793.72 | 2648.44 | 94.00  | 2.34  | 0.52  | -2.28 |
|  | 8501.00  | 89.82 | 270.58 | 212.2 | 21.91  | -2744.03 | 6549.49 | 1793.49 | 2743.34 | 95.00  | 2.37  | -0.67 | -2.27 |
|  | 8596.00  | 89.82 | 268.47 | 212.2 | 21.13  | -2838.02 | 6549.78 | 1793.78 | 2837.33 | 94.00  | 2.24  | 0.00  | -2.24 |
|  | 8690.00  | 89.85 | 267.97 | 214.9 | 18.18  | -2932.97 | 6550.06 | 1794.06 | 2932.32 | 95.00  | 0.53  | 0.03  | -0.53 |
|  | 8784.00  | 89.51 | 268.89 | 214.9 | 15.61  | -3026.93 | 6550.58 | 1794.58 | 3026.31 | 94.00  | 1.04  | -0.36 | 0.98  |
|  | 8879.00  | 89.66 | 270.29 | 214.9 | 14.93  | -3121.93 | 6551.27 | 1795.27 | 3121.31 | 95.00  | 1.48  | 0.16  | 1.47  |
|  | 8973.00  | 89.51 | 269.76 | 214.9 | 14.97  | -3215.92 | 6551.95 | 1795.95 | 3215.29 | 94.00  | 0.59  | -0.16 | -0.56 |
|  | 9068.00  | 89.54 | 270.08 | 217.6 | 14.84  | -3310.92 | 6552.74 | 1796.74 | 3310.28 | 95.00  | 0.34  | 0.03  | 0.34  |
|  | 9257.00  | 89.63 | 269.01 | 220.3 | 13.34  | -3499.91 | 6554.11 | 1798.11 | 3499.26 | 189.00 | 0.57  | 0.05  | -0.57 |
|  | 9351.00  | 89.85 | 268.13 | 220.3 | 10.99  | -3593.87 | 6554.53 | 1798.53 | 3593.26 | 94.00  | 0.96  | 0.23  | -0.94 |
|  | 9445.00  | 89.57 | 266.41 | 223.0 | 6.51   | -3687.76 | 6555.01 | 1799.01 | 3687.21 | 94.00  | 1.85  | -0.30 | -1.83 |
|  | 9540.00  | 89.54 | 267.44 | 223.0 | 1.42   | -3782.62 | 6555.75 | 1799.75 | 3782.13 | 95.00  | 1.08  | -0.03 | 1.08  |
|  | 9634.00  | 89.54 | 267.91 | 225.7 | -2.40  | -3876.54 | 6556.50 | 1800.50 | 3876.10 | 94.00  | 0.50  | -0.00 | 0.50  |
|  | 9729.00  | 89.54 | 268.47 | 225.7 | -5.40  | -3971.49 | 6557.26 | 1801.26 | 3971.08 | 95.00  | 0.59  | 0.00  | 0.59  |
|  | 9823.00  | 89.63 | 269.17 | 225.7 | -7.33  | -4065.47 | 6557.94 | 1801.94 | 4065.08 | 94.00  | 0.75  | 0.10  | 0.74  |
|  | 9918.00  | 89.72 | 270.37 | 225.7 | -7.71  | -4160.46 | 6558.48 | 1802.48 | 4160.07 | 95.00  | 1.27  | 0.09  | 1.26  |
|  | 10012.00 | 89.75 | 269.56 | 225.7 | -7.77  | -4254.46 | 6558.92 | 1802.92 | 4254.06 | 94.00  | 0.86  | 0.03  | -0.86 |
|  | 10106.00 | 89.85 | 268.99 | 228.4 | -8.96  | -4348.45 | 6559.25 | 1803.25 | 4348.06 | 94.00  | 0.62  | 0.11  | -0.61 |
|  | 10201.00 | 89.91 | 267.65 | 228.4 | -11.75 | -4443.41 | 6559.45 | 1803.45 | 4443.05 | 95.00  | 1.41  | 0.06  | -1.41 |
|  | 10295.00 | 89.75 | 267.83 | 231.1 | -15.45 | -4537.34 | 6559.72 | 1803.72 | 4537.02 | 94.00  | 0.26  | -0.17 | 0.19  |
|  | 10389.00 | 89.35 | 268.03 | 231.1 | -18.85 | -4631.27 | 6560.46 | 1804.46 | 4631.00 | 94.00  | 0.48  | -0.43 | 0.21  |
|  | 10484.00 | 89.78 | 268.83 | 231.1 | -21.45 | -4726.23 | 6561.18 | 1805.18 | 4725.99 | 95.00  | 0.96  | 0.45  | 0.84  |
|  | 10578.00 | 90.00 | 269.07 | 231.1 | -23.17 | -4820.22 | 6561.36 | 1805.36 | 4819.99 | 94.00  | 0.35  | 0.23  | 0.26  |
|  | 10672.00 | 89.63 | 268.22 | 233.8 | -25.40 | -4914.19 | 6561.67 | 1805.67 | 4913.98 | 94.00  | 0.99  | -0.39 | -0.90 |
|  | 10767.00 | 89.75 | 269.07 | 233.8 | -27.64 | -5009.16 | 6562.18 | 1806.18 | 5008.98 | 95.00  | 0.90  | 0.13  | 0.89  |
|  | 10862.00 | 89.91 | 270.57 | 236.5 | -27.94 | -5104.16 | 6562.46 | 1806.46 | 5103.96 | 95.00  | 1.59  | 0.17  | 1.58  |
|  | 10956.00 | 89.78 | 276.08 | 233.8 | -22.49 | -5197.96 | 6562.72 | 1806.72 | 5197.67 | 94.00  | 5.86  | -0.14 | 5.86  |
|  | 11051.00 | 89.82 | 277.52 | 233.8 | -11.24 | -5292.29 | 6563.05 | 1807.05 | 5291.81 | 95.00  | 1.52  | 0.04  | 1.52  |
|  | 11145.00 | 89.88 | 272.68 | 233.8 | -2.89  | -5385.89 | 6563.30 | 1807.30 | 5385.27 | 94.00  | 5.15  | 0.06  | -5.15 |
|  | 11240.00 | 89.91 | 272.18 | 233.8 | 1.14   | -5480.80 | 6563.47 | 1807.47 | 5480.11 | 95.00  | 0.53  | 0.03  | -0.53 |
|  | 11334.00 | 90.52 | 268.94 | 233.8 | 2.06   | -5574.79 | 6563.12 | 1807.12 | 5574.07 | 94.00  | 3.51  | 0.65  | -3.45 |
|  | 11430.00 | 88.92 | 265.12 | 217.6 | -2.91  | -5670.63 | 6563.59 | 1807.59 | 5669.98 | 96.00  | 4.31  | -1.67 | -3.98 |
|  | 11525.00 | 89.97 | 263.99 | 217.6 | -11.93 | -5765.20 | 6564.51 | 1808.51 | 5764.67 | 95.00  | 1.62  | 1.11  | -1.19 |
|  | 11620.00 | 89.94 | 262.59 | 223.0 | -23.03 | -5859.55 | 6564.58 | 1808.58 | 5859.18 | 95.00  | 1.47  | -0.03 | -1.47 |
|  | 11714.00 | 90.03 | 263.39 | 223.0 | -34.50 | -5952.84 | 6564.61 | 1808.61 | 5952.65 | 94.00  | 0.86  | 0.10  | 0.85  |
|  | 11809.00 | 89.94 | 265.34 | 223.0 | -43.83 | -6047.38 | 6564.63 | 1808.63 | 6047.32 | 95.00  | 2.05  | -0.09 | 2.05  |
|  | 11903.00 | 89.94 | 266.74 | 225.7 | -50.32 | -6141.15 | 6564.73 | 1808.73 | 6141.18 | 94.00  | 1.49  | 0.00  | 1.49  |
|  | 11998.00 | 89.82 | 267.34 | 228.4 | -55.23 | -6236.02 | 6564.93 | 1808.93 | 6236.12 | 95.00  | 0.64  | -0.13 | 0.63  |
|  | 12093.00 | 90.03 | 268.67 | 228.4 | -58.53 | -6330.96 | 6565.05 | 1809.05 | 6331.10 | 95.00  | 1.42  | 0.22  | 1.40  |
|  | 12187.00 | 89.85 | 270.26 | 231.1 | -59.41 | -6424.96 | 6565.15 | 1809.15 | 6425.10 | 94.00  | 1.70  | -0.19 | 1.69  |

|            |          |       |        |       |         |           |         |         |          |        |       |       |        |
|------------|----------|-------|--------|-------|---------|-----------|---------|---------|----------|--------|-------|-------|--------|
|            | 12187.00 | 89.85 | 270.26 | 231.1 | -59.41  | -6424.96  | 6566.15 | 1809.15 | 6425.10  | 94.00  | 1.70  | -0.19 | 1.89   |
|            | 12281.00 | 90.12 | 270.11 | 231.1 | -59.11  | -6518.96  | 6565.18 | 1809.18 | 6519.08  | 94.00  | 0.33  | 0.29  | -0.16  |
|            | 12376.00 | 89.45 | 269.10 | 231.1 | -59.76  | -6613.95  | 6565.53 | 1809.53 | 6614.07  | 95.00  | 1.28  | -0.71 | -1.06  |
|            | 12470.00 | 90.03 | 270.24 | 231.1 | -60.30  | -6707.95  | 6565.96 | 1809.96 | 6708.07  | 94.00  | 1.36  | 0.62  | 1.21   |
|            | 12565.00 | 89.82 | 270.22 | 233.8 | -59.92  | -6802.95  | 6566.08 | 1810.08 | 6803.05  | 95.00  | 0.22  | -0.22 | -0.02  |
|            | 12660.00 | 89.29 | 267.86 | 236.5 | -61.51  | -6897.92  | 6566.82 | 1810.82 | 6898.04  | 95.00  | 2.55  | -0.56 | -2.48  |
|            | 12754.00 | 89.91 | 267.93 | 236.5 | -64.97  | -6991.86  | 6567.48 | 1811.48 | 6992.01  | 94.00  | 0.66  | 0.66  | 0.07   |
|            | 12849.00 | 89.91 | 265.41 | 239.2 | -70.48  | -7086.69  | 6567.63 | 1811.63 | 7086.92  | 95.00  | 2.65  | 0.00  | -2.65  |
|            | 12943.00 | 90.40 | 266.24 | 239.2 | -77.33  | -7180.44  | 6567.37 | 1811.37 | 7180.77  | 94.00  | 1.03  | 0.52  | 0.88   |
|            | 13038.00 | 90.18 | 267.59 | 239.2 | -82.44  | -7275.30  | 6566.89 | 1810.89 | 7275.69  | 95.00  | 1.44  | -0.23 | 1.42   |
|            | 13132.00 | 90.49 | 269.45 | 239.2 | -84.87  | -7369.26  | 6566.34 | 1810.34 | 7369.68  | 94.00  | 2.01  | 0.33  | 1.98   |
|            | 13227.00 | 89.88 | 270.01 | 236.5 | -85.31  | -7464.26  | 6566.03 | 1810.03 | 7464.68  | 95.00  | 0.87  | -0.64 | 0.59   |
|            | 13321.00 | 90.18 | 269.94 | 239.2 | -85.36  | -7558.26  | 6565.99 | 1809.99 | 7558.67  | 94.00  | 0.33  | 0.32  | -0.07  |
|            | 13415.00 | 89.94 | 269.84 | 239.2 | -85.54  | -7652.26  | 6565.89 | 1809.89 | 7652.66  | 94.00  | 0.28  | -0.26 | -0.11  |
|            | 13510.00 | 89.75 | 268.68 | 239.2 | -86.76  | -7747.25  | 6566.14 | 1810.14 | 7747.65  | 95.00  | 1.24  | -0.20 | -1.22  |
|            | 13604.00 | 90.03 | 270.47 | 239.2 | -87.46  | -7841.24  | 6566.32 | 1810.32 | 7841.65  | 94.00  | 1.93  | 0.30  | 1.90   |
|            | 13699.00 | 89.88 | 269.86 | 239.2 | -87.19  | -7936.24  | 6566.40 | 1810.40 | 7936.63  | 95.00  | 0.66  | -0.16 | -0.64  |
|            | 13793.00 | 90.12 | 268.90 | 241.9 | -88.20  | -8030.23  | 6566.40 | 1810.40 | 8030.63  | 94.00  | 1.05  | 0.26  | -1.02  |
|            | 13888.00 | 89.82 | 268.81 | 241.9 | -90.10  | -8125.21  | 6566.45 | 1810.45 | 8125.63  | 95.00  | 0.33  | -0.32 | -0.09  |
|            | 13982.00 | 90.09 | 268.42 | 239.2 | -92.37  | -8219.19  | 6566.52 | 1810.52 | 8219.62  | 94.00  | 0.50  | 0.29  | -0.41  |
|            | 14077.00 | 89.82 | 266.71 | 241.9 | -96.41  | -8314.10  | 6566.60 | 1810.60 | 8314.58  | 95.00  | 1.82  | -0.28 | -1.80  |
|            | 14172.00 | 90.15 | 263.24 | 244.6 | -104.73 | -8408.72  | 6566.62 | 1810.62 | 8409.32  | 95.00  | 3.67  | 0.35  | -3.65  |
|            | 14266.00 | 90.22 | 269.85 | 244.6 | -110.39 | -8502.49  | 6566.32 | 1810.32 | 8503.18  | 94.00  | 7.03  | 0.07  | 7.03   |
|            | 14361.00 | 89.69 | 270.30 | 244.6 | -110.27 | -8597.49  | 6566.39 | 1810.39 | 8598.16  | 95.00  | 0.73  | -0.56 | 0.47   |
|            | 14456.00 | 89.85 | 270.19 | 244.6 | -109.86 | -8692.49  | 6566.77 | 1810.77 | 8693.14  | 95.00  | 0.20  | 0.17  | -0.12  |
|            | 14550.00 | 89.97 | 270.55 | 247.3 | -109.25 | -8786.49  | 6566.92 | 1810.92 | 8787.12  | 94.00  | 0.40  | 0.13  | 0.38   |
|            | 14644.00 | 89.54 | 271.08 | 247.3 | -107.92 | -8880.48  | 6567.32 | 1811.32 | 8881.08  | 94.00  | 0.73  | -0.46 | 0.56   |
|            | 14739.00 | 89.60 | 272.59 | 239.2 | -104.88 | -8975.42  | 6568.04 | 1812.04 | 8975.96  | 95.00  | 1.59  | 0.06  | 1.59   |
|            | 14833.00 | 89.63 | 267.07 | 247.3 | -105.15 | -9069.38  | 6568.67 | 1812.67 | 9069.92  | 94.00  | 5.87  | 0.03  | -5.87  |
|            | 14928.00 | 89.78 | 271.49 | 247.3 | -106.35 | -9164.35  | 6569.16 | 1813.16 | 9164.89  | 95.00  | 4.66  | 0.16  | 4.65   |
|            | 15022.00 | 90.09 | 277.54 | 247.3 | -98.95  | -9258.02  | 6569.27 | 1813.27 | 9258.43  | 94.00  | 6.44  | 0.33  | 6.44   |
|            | 15116.00 | 89.75 | 280.05 | 247.3 | -84.58  | -9350.90  | 6569.40 | 1813.40 | 9351.08  | 94.00  | 2.69  | -0.36 | 2.67   |
|            | 15211.00 | 89.69 | 278.61 | 247.3 | -69.18  | -9444.64  | 6569.86 | 1813.86 | 9444.56  | 95.00  | 1.52  | -0.06 | -1.52  |
|            | 15400.00 | 89.82 | 271.73 | 250.0 | -52.16  | -9632.76  | 6570.67 | 1814.67 | 9632.39  | 189.00 | 3.64  | 0.07  | -3.64  |
|            | 15494.00 | 89.48 | 262.02 | 250.0 | -57.28  | -9726.51  | 6571.25 | 1815.25 | 9726.21  | 94.00  | 10.34 | -0.36 | -10.33 |
|            | 15589.00 | 89.66 | 256.51 | 250.0 | -74.96  | -9819.80  | 6571.96 | 1815.96 | 9819.77  | 95.00  | 5.80  | 0.19  | -5.80  |
|            | 15683.00 | 89.69 | 256.15 | 252.7 | -97.18  | -9911.14  | 6572.49 | 1816.49 | 9911.44  | 94.00  | 0.38  | 0.03  | -0.38  |
|            | 15778.00 | 89.75 | 257.63 | 250.0 | -118.73 | -10003.66 | 6572.96 | 1816.96 | 10004.29 | 95.00  | 1.56  | 0.06  | 1.56   |
|            | 15872.00 | 89.72 | 261.56 | 252.7 | -135.70 | -10096.10 | 6573.39 | 1817.39 | 10096.98 | 94.00  | 4.18  | -0.03 | 4.18   |
|            | 15967.00 | 89.63 | 267.57 | 250.0 | -144.69 | -10190.62 | 6573.93 | 1817.93 | 10191.64 | 95.00  | 6.33  | -0.09 | 6.33   |
|            | 16061.00 | 89.69 | 273.86 | 250.0 | -143.52 | -10284.57 | 6574.49 | 1818.49 | 10285.55 | 94.00  | 6.69  | 0.06  | 6.69   |
|            | 16156.00 | 89.85 | 275.27 | 250.0 | -135.96 | -10379.26 | 6574.87 | 1818.87 | 10380.12 | 95.00  | 1.49  | 0.17  | 1.48   |
|            | 16250.00 | 89.82 | 272.46 | 252.7 | -129.62 | -10473.04 | 6575.14 | 1819.14 | 10473.78 | 94.00  | 2.99  | -0.03 | -2.99  |
|            | 16345.00 | 90.03 | 268.93 | 255.4 | -128.47 | -10568.02 | 6575.27 | 1819.27 | 10568.73 | 95.00  | 3.72  | 0.22  | -3.72  |
|            | 16439.00 | 89.72 | 269.66 | 255.4 | -129.63 | -10662.01 | 6575.47 | 1819.47 | 10662.73 | 94.00  | 0.84  | -0.33 | 0.78   |
|            | 16534.00 | 89.82 | 267.13 | 258.1 | -132.29 | -10756.96 | 6575.85 | 1819.85 | 10757.71 | 95.00  | 2.67  | 0.11  | -2.66  |
|            | 16628.00 | 89.78 | 266.48 | 258.1 | -137.53 | -10850.82 | 6576.18 | 1820.18 | 10851.64 | 94.00  | 0.69  | -0.04 | -0.69  |
|            | 16723.00 | 89.97 | 266.59 | 258.1 | -143.27 | -10945.64 | 6576.39 | 1820.39 | 10946.54 | 95.00  | 0.23  | 0.20  | 0.12   |
|            | 16817.00 | 90.00 | 267.41 | 260.8 | -148.19 | -11039.51 | 6576.41 | 1820.41 | 11040.48 | 94.00  | 0.87  | 0.03  | 0.87   |
| Projection | 16905.00 | 90.00 | 267.41 | N/A   | -152.17 | -11127.42 | 6576.41 | 1820.41 | 11128.44 | 88.00  | 0.00  | 0.00  | -0.00  |