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|--|--|------------------------|--|
| <div></div> <div>PHOENIX TECHNOLOGY SERVICES</div> | | MD 1:240 Feet | |
| | | MWD Gamma / ROP (5") | |
| Client: Extraction Oil & Gas | | | |
| Well Name: Mickey 2 | | Field: Wattenberg | |
| API/UWID: 05-123-4567 | | | |
| County: Weld | | | |
| Permit #: 1234 | | | |
| State: Colorado | | Country: USA | |
| Longitude: 104° 54' 51.322 W | | Personnel | |
| Latitude: 40° 30' 59.051 N | | | |
| Rig Name: Patterson 346 | | Company Representative | |
| Job Number: 60551 | | Jose Torres | |
| Ground Level: 4881.00 ft | | Geologist | |
| Kelly Bushing: 4906.00 ft | | | |
| Permanent Datum: Mean Sea Level | | Directional Driller(s) | |
| Drilling Measured From: Kelly Bushing | | Scott Sanford | |
| Spud Date: - | | | |
| Bottom Hole Temp: 279.4 °F | | MWD Operator(s) | |
| Log Start Depth: 4400.00 ft | | Ben Hursh | |
| Log End Depth: 17730.00 ft | | Brian Murphy | |
| Comments: | | Main Leg | |
| - | | | |
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Operational Run Summary

60551

| | Run 1 | Run 2 | | | | |
|----------------------|------------|------------|--|--|--|--|
| Run Start Depth (ft) | 0.00 | 8666.90 | | | | |
| Run End Depth (ft) | 8666.90 | 17729.00 | | | | |
| Run Start Date | 11/21/2016 | 11/24/2016 | | | | |
| Run Start Time | 7:04 PM | 8:43 PM | | | | |
| Run End Date | 11/24/2016 | 11/26/2016 | | | | |
| Run End Time | 3:57 PM | 11:18 PM | | | | |

Tool Information Summary

60551

| | Run 1 | Run 2 | | | | |
|-------------------------------------|----------|----------|--|--|--|--|
| Gamma Probe Serial No | EGNF0178 | EGNF0178 | | | | |
| Probe Cal Ratio | 1 | 1 | | | | |
| Gamma Scale Factor | 2.875 | 2.875 | | | | |
| Tool Carrier ID (in) | 4.490 | 4.490 | | | | |
| Tool Carrier OD (in) | 6.630 | 6.630 | | | | |
| | | | | | | |
| Survey-to-Bit (PTB) (ft) | 64.59 | 64.59 | | | | |
| Gamma-to-Bit (GTB) (ft) | 63.40 | 63.40 | | | | |
| Annular Pressure-to-Bit (APTb) (ft) | 0.00 | 0.00 | | | | |

Borehole Fluids and Measurements Summary

60551

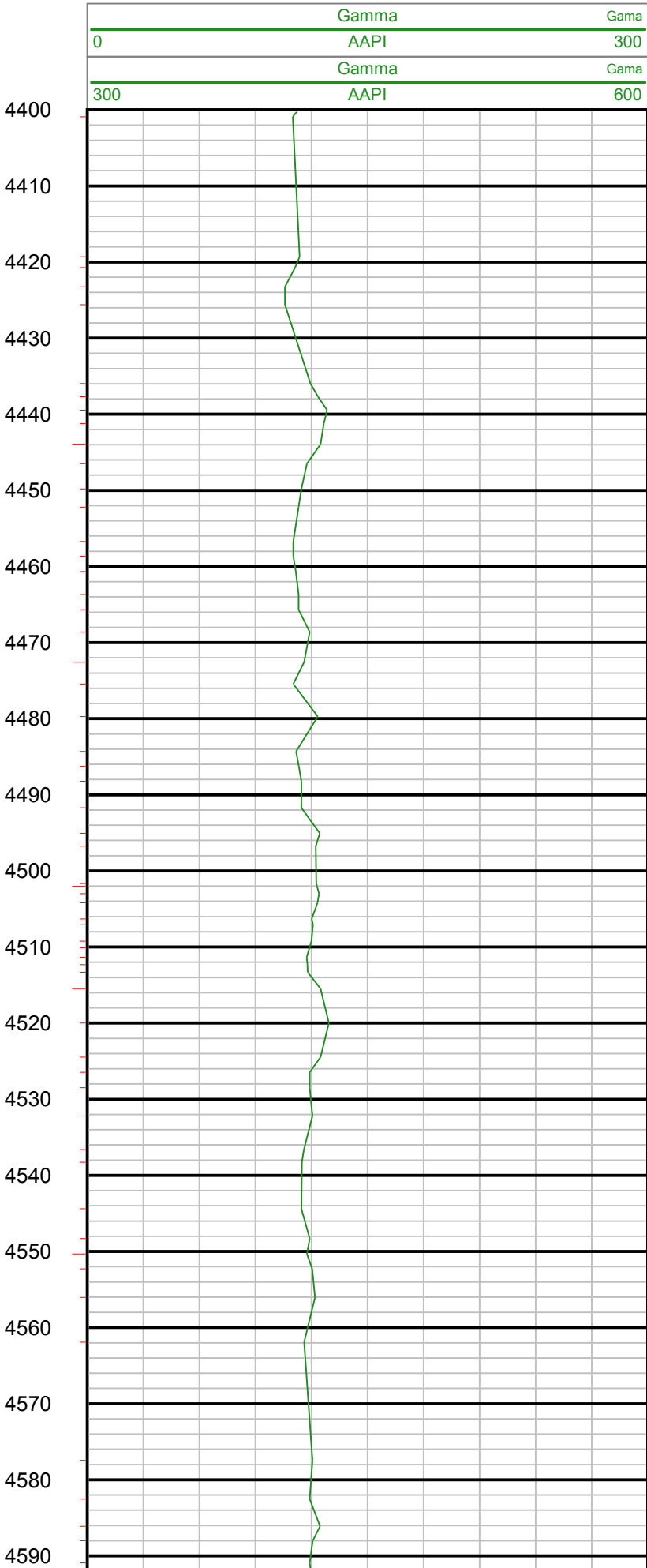
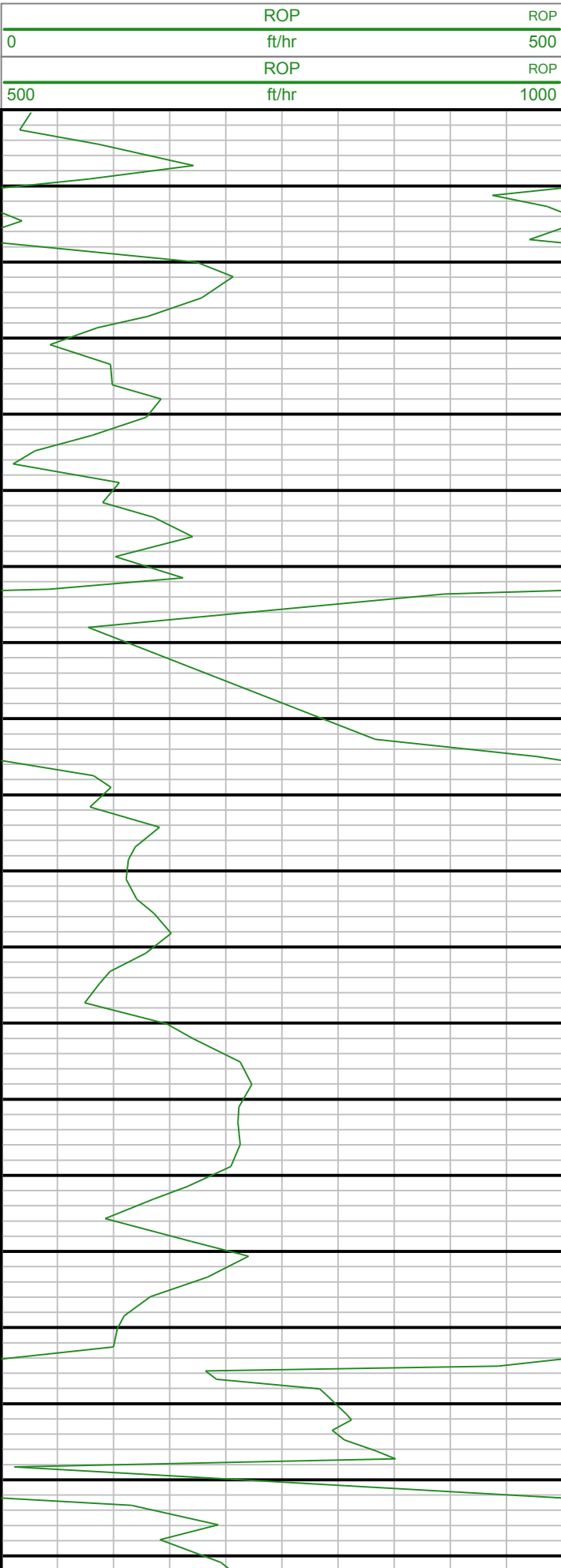
| | Run 1 | Run 2 | | | | |
|-------------------------|---------|---------|--|--|--|--|
| Hole Size (in) | 7.88 | 7.88 | | | | |
| Casing Start Depth (ft) | 0.00 | 0.00 | | | | |
| Casing End Depth (ft) | 1550.00 | 1500.00 | | | | |
| Casing ID Size (in) | 0.625 | 0.625 | | | | |

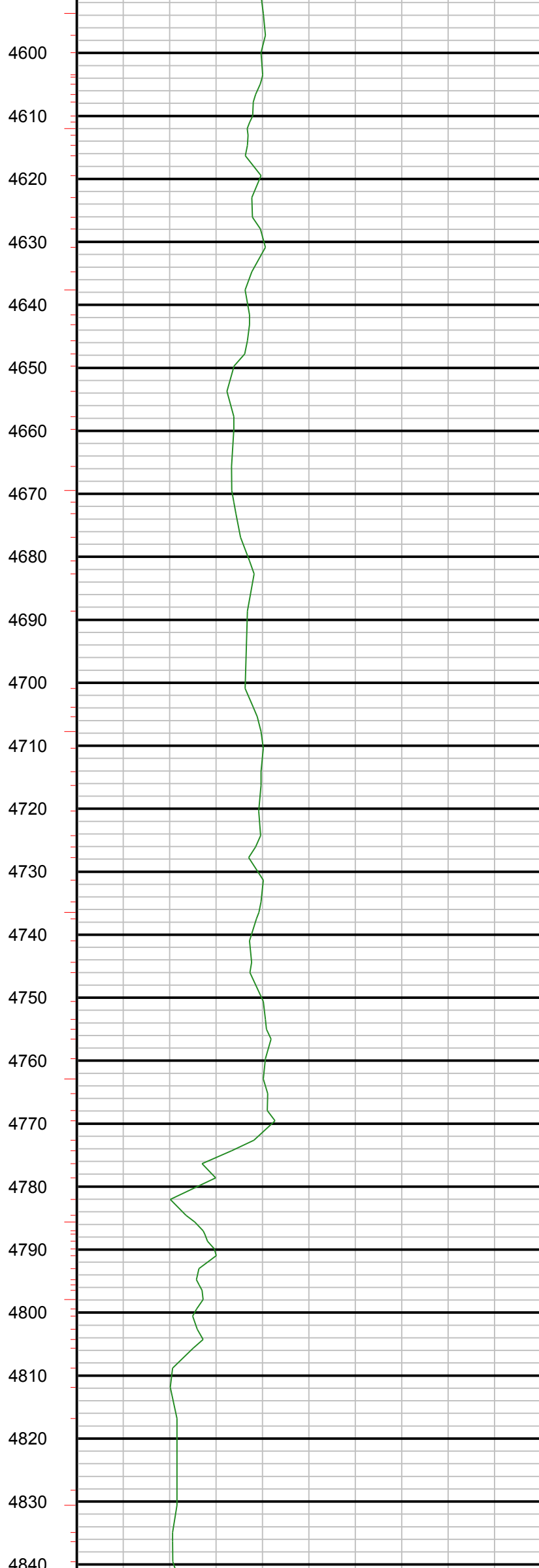
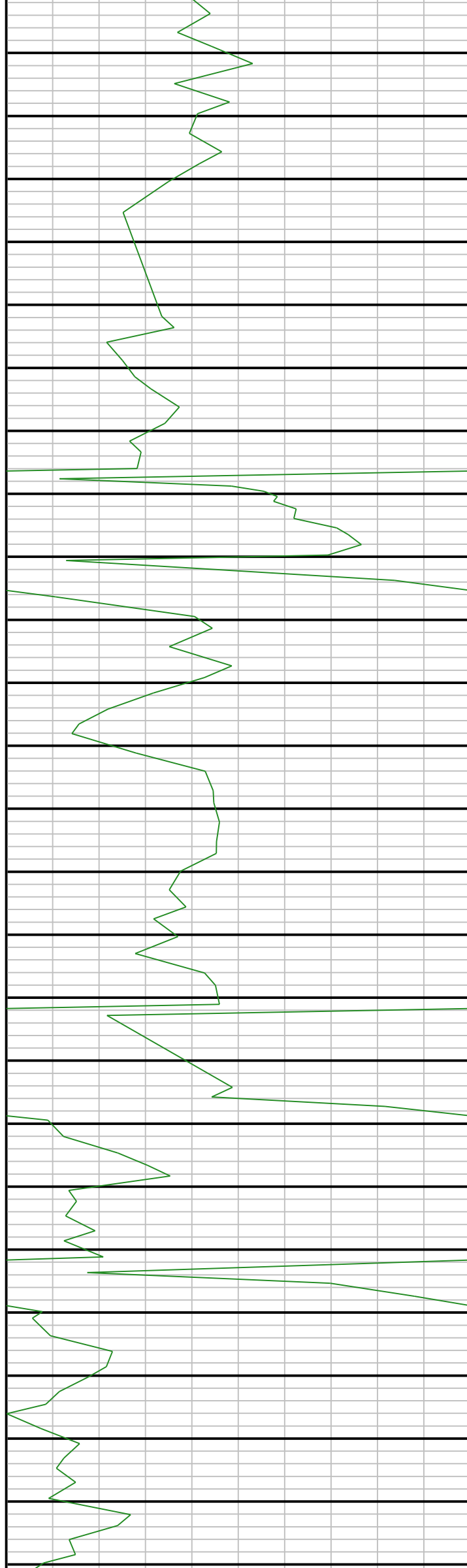
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|---------------------|---------------------|---------------------|--|--|--|--|
| Casing Size (in) | 9.625 | 9.625 | | | | |
| | | | | | | |
| Mud Type | Oil-Based Mud (OBM) | Oil-Based Mud (OBM) | | | | |
| Mud Weight (lb/gal) | 9.0 | 9.5 | | | | |
| Mud Viscosity (s) | 39 | 39 | | | | |
| Weighting Agent | Barite | Barite | | | | |
| Mud KCL Content (%) | 0.000 | 0.000 | | | | |

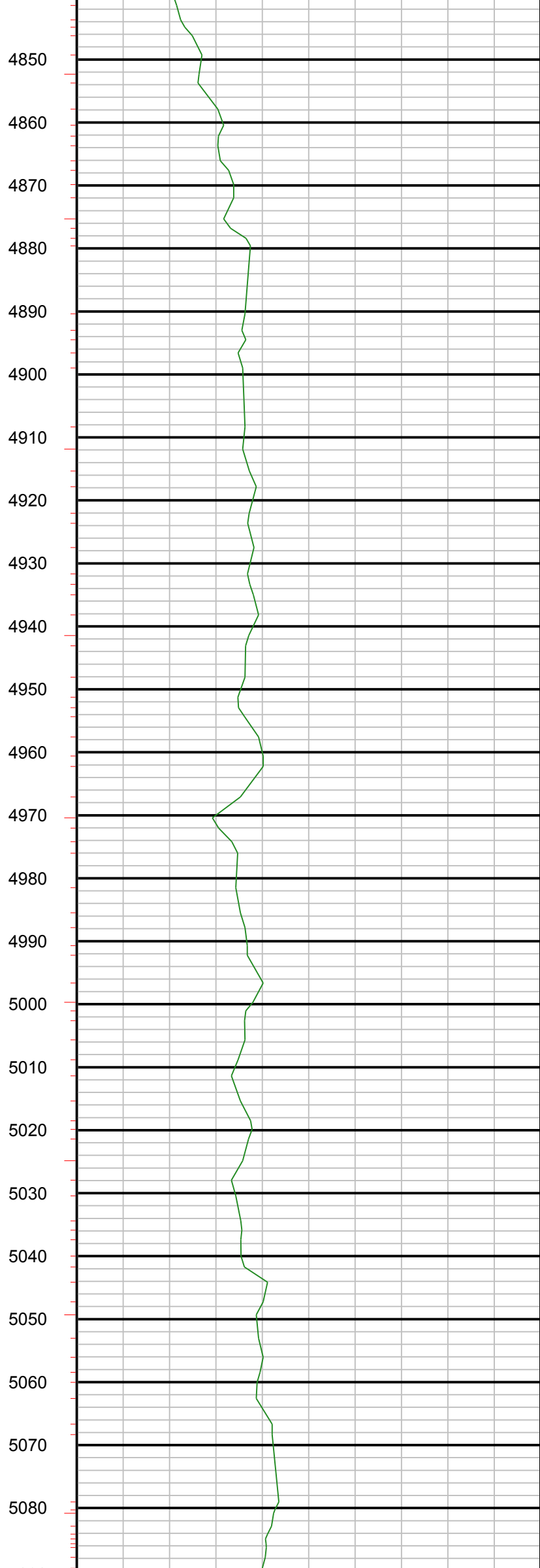
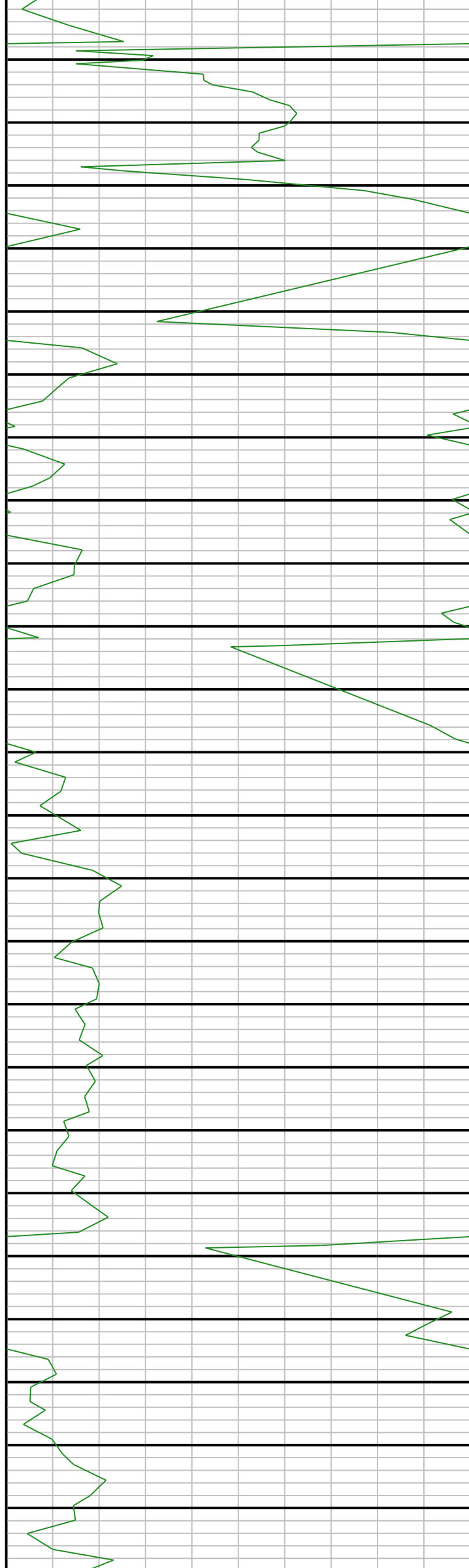
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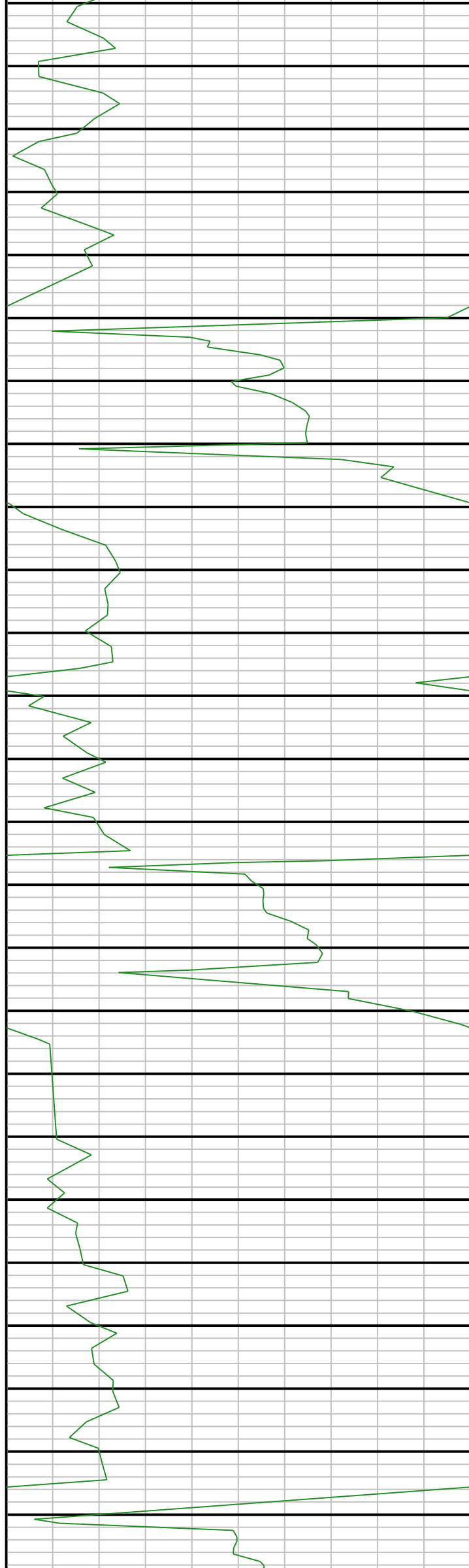
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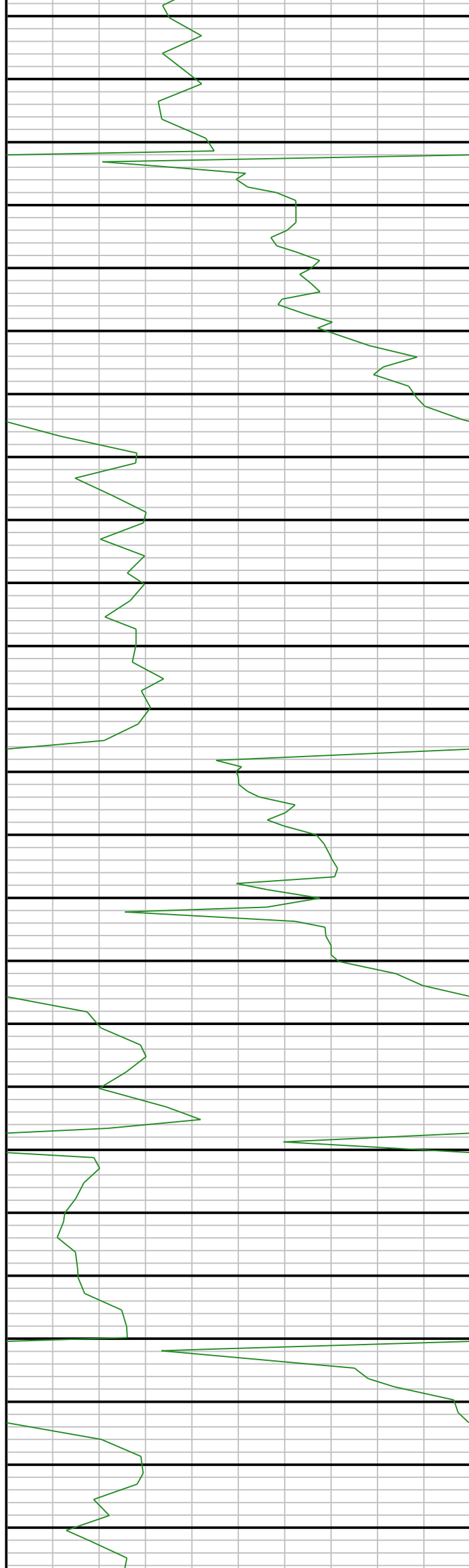
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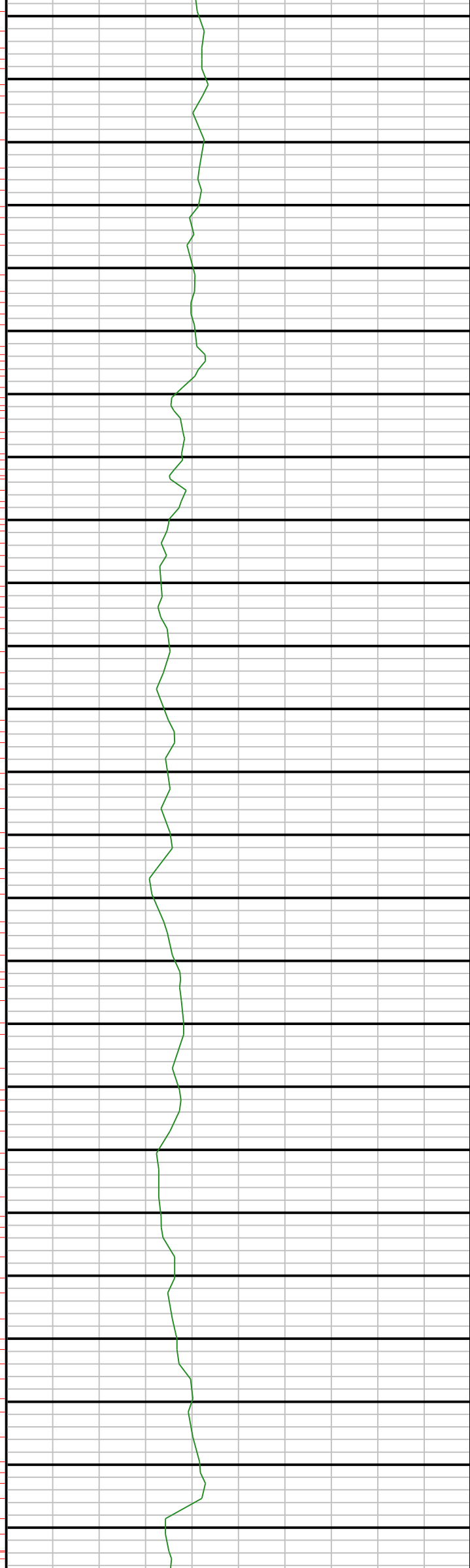


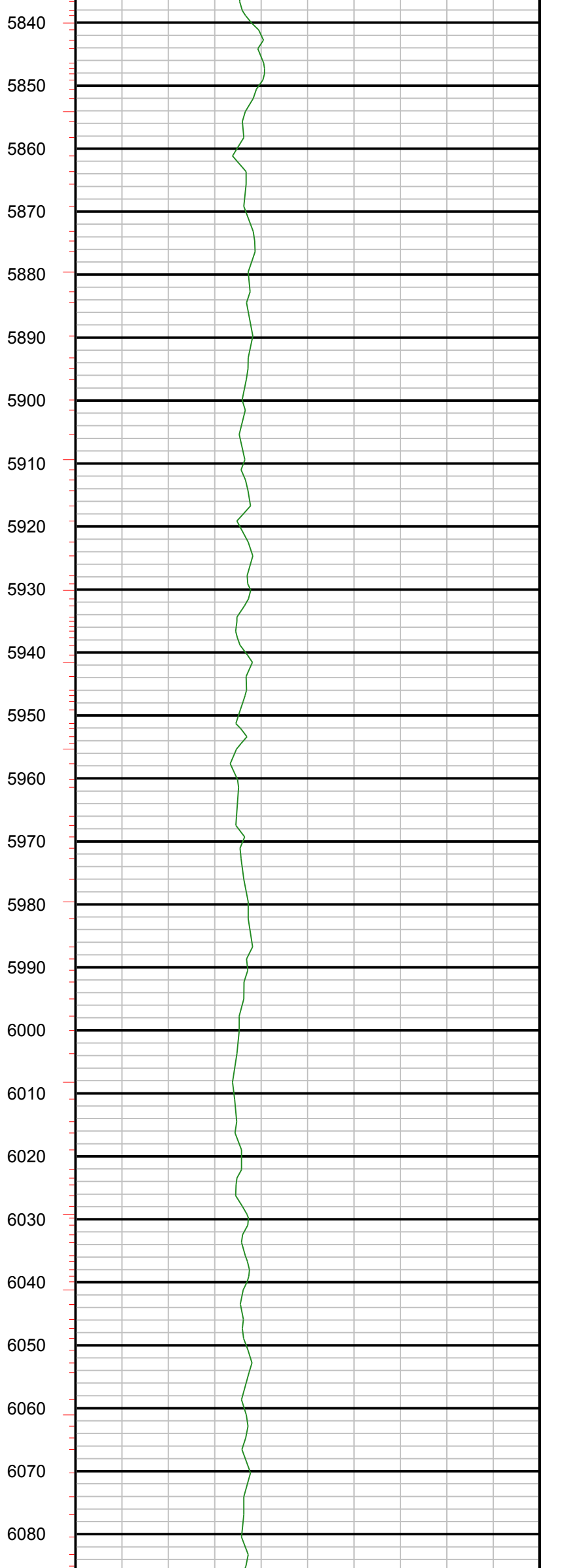
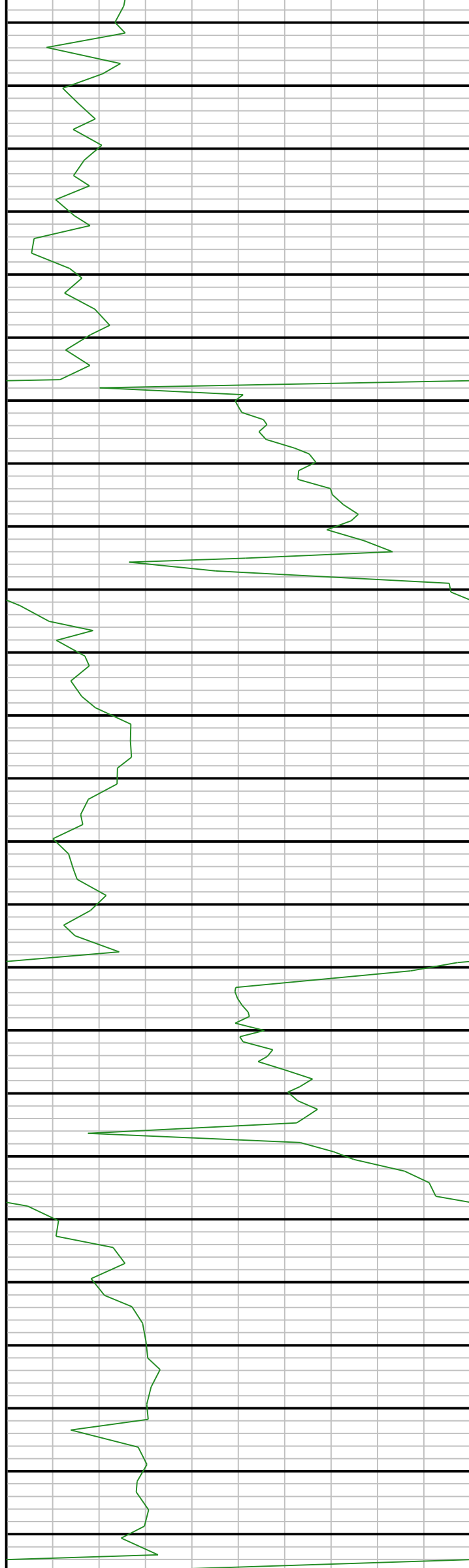


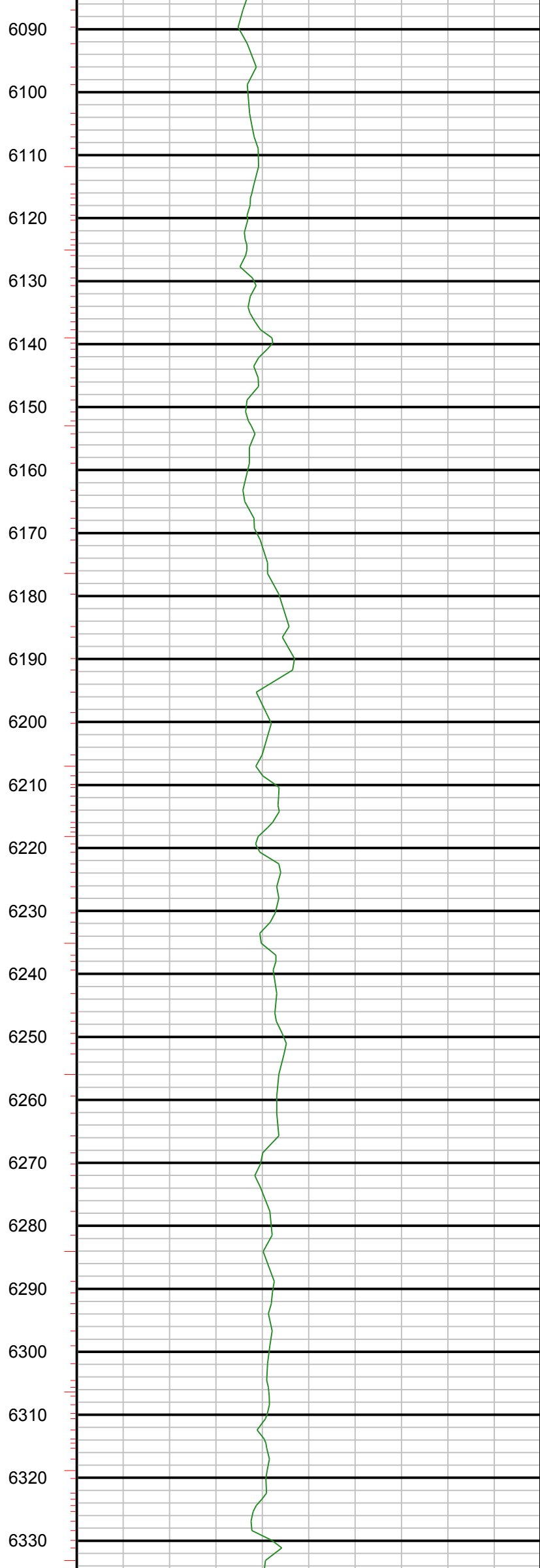
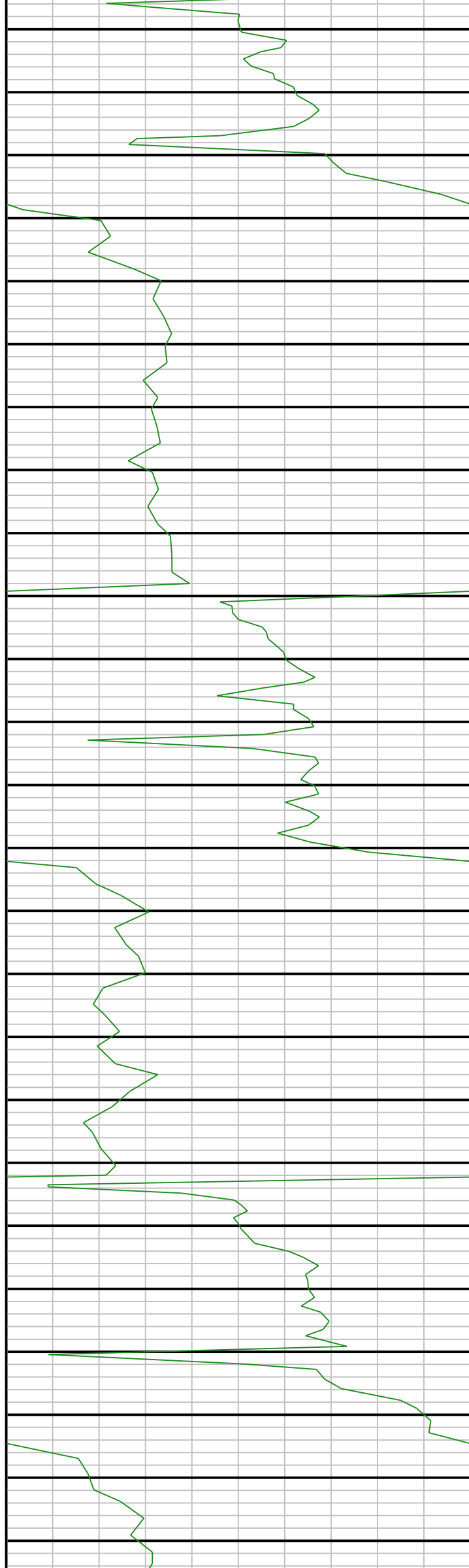


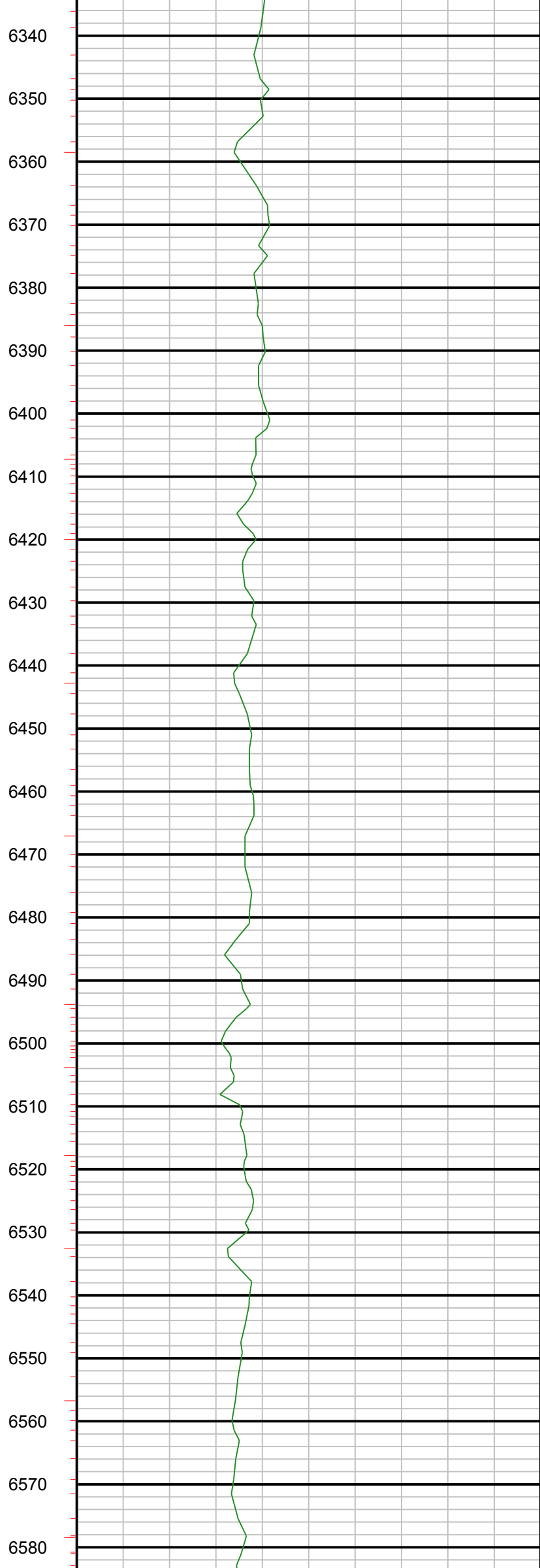
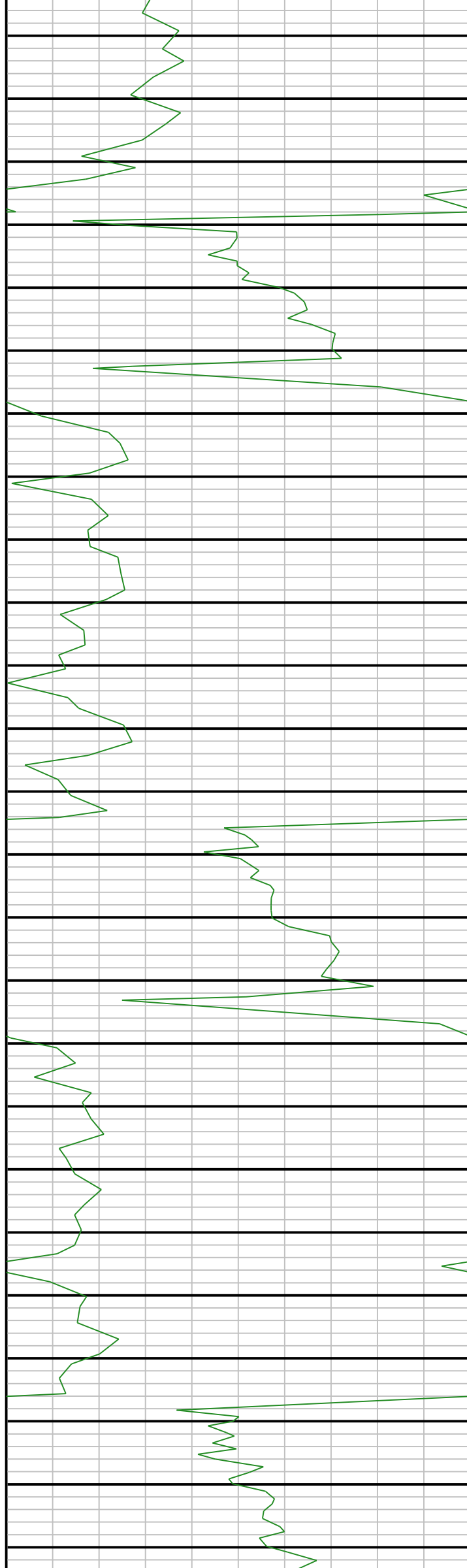


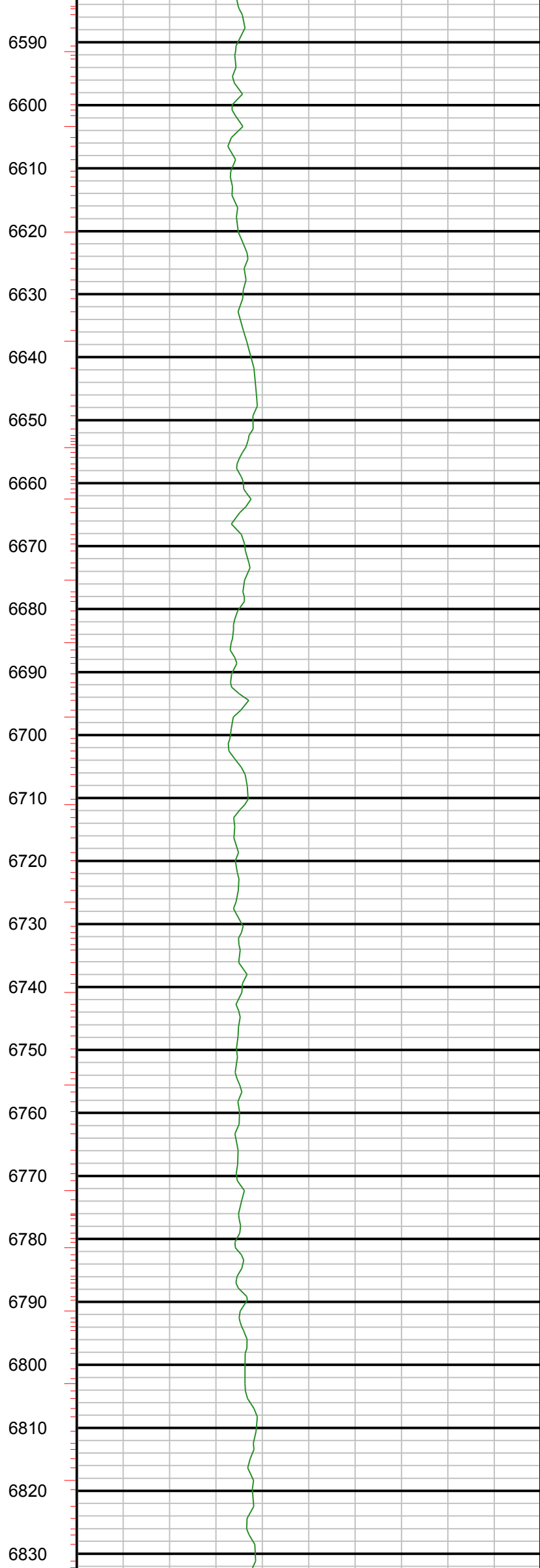
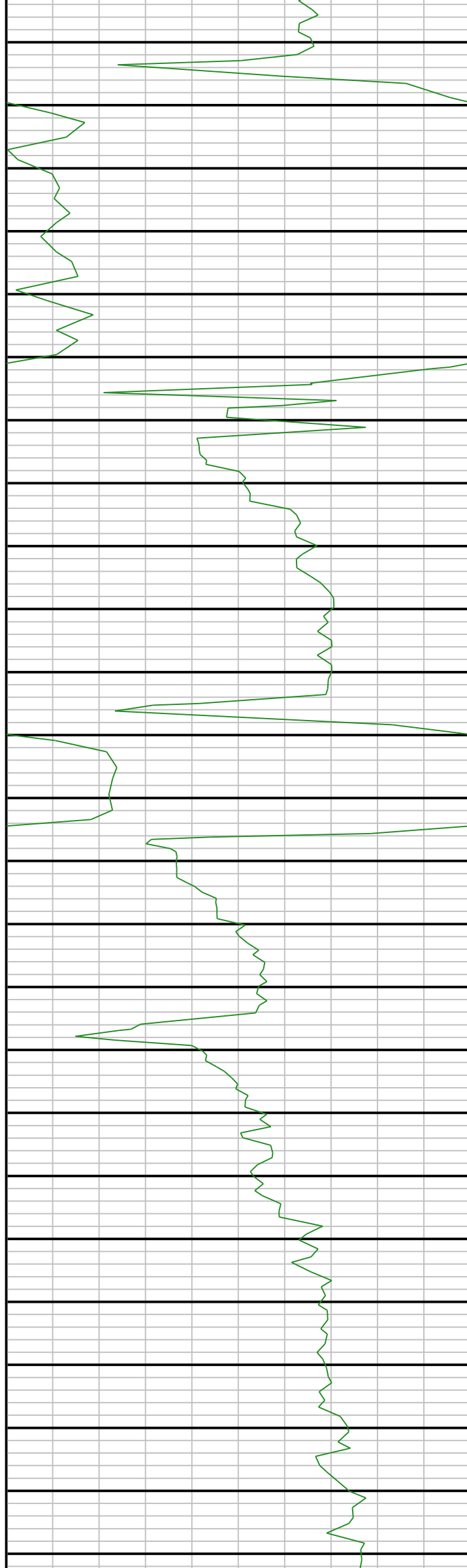
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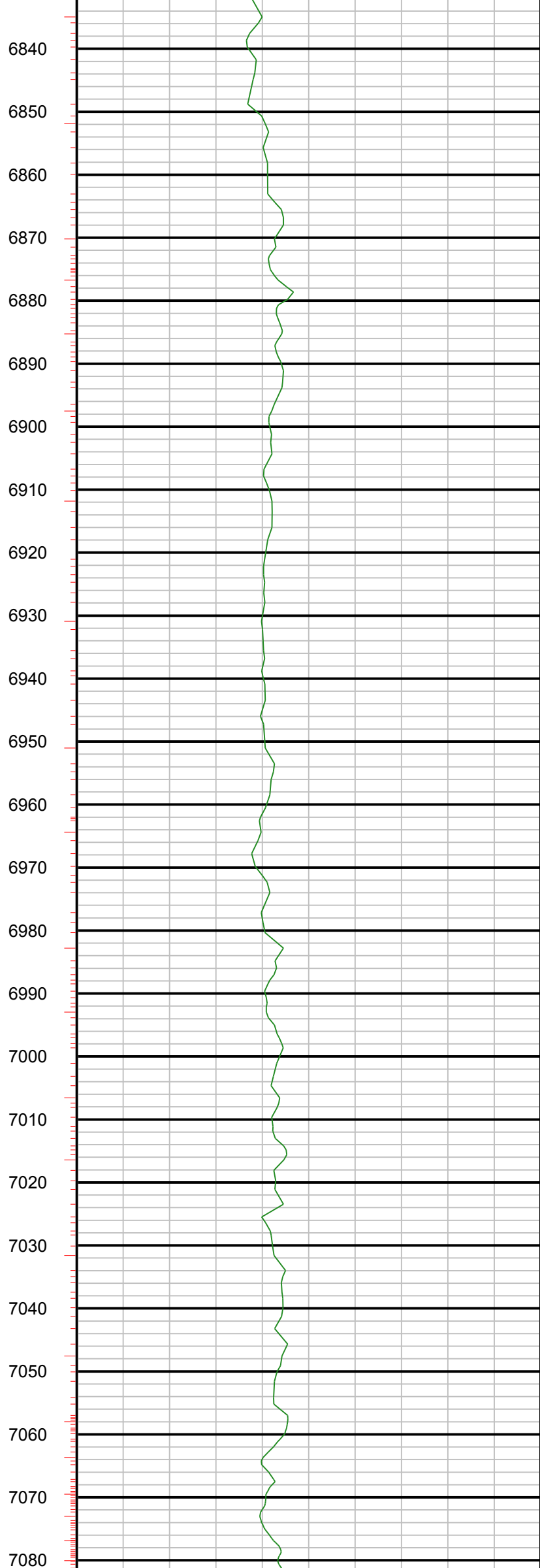
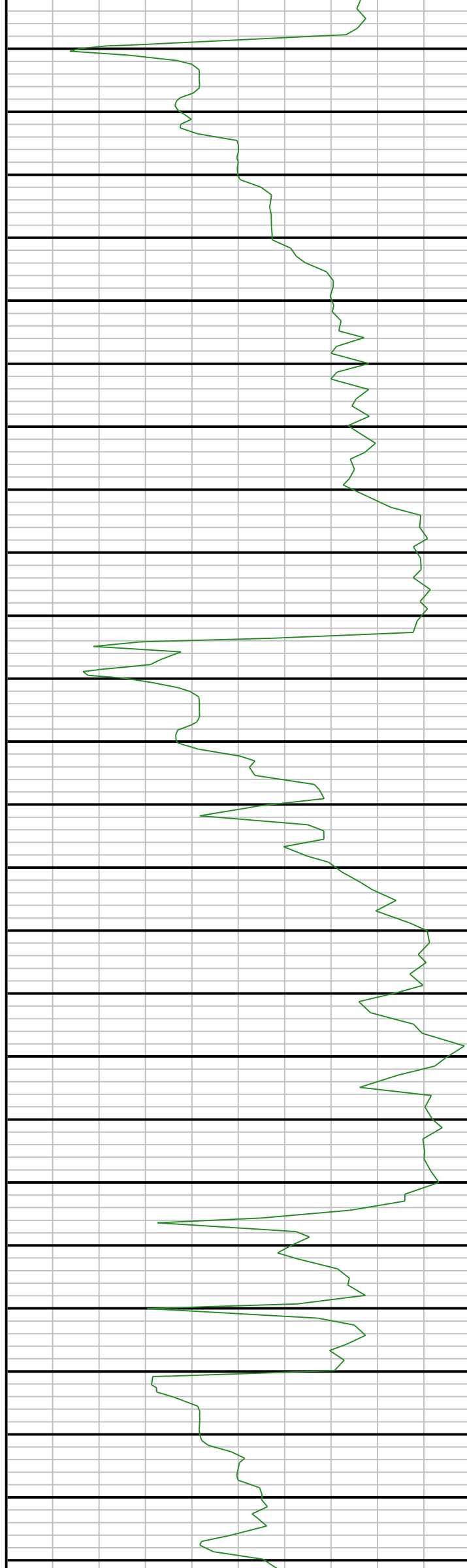


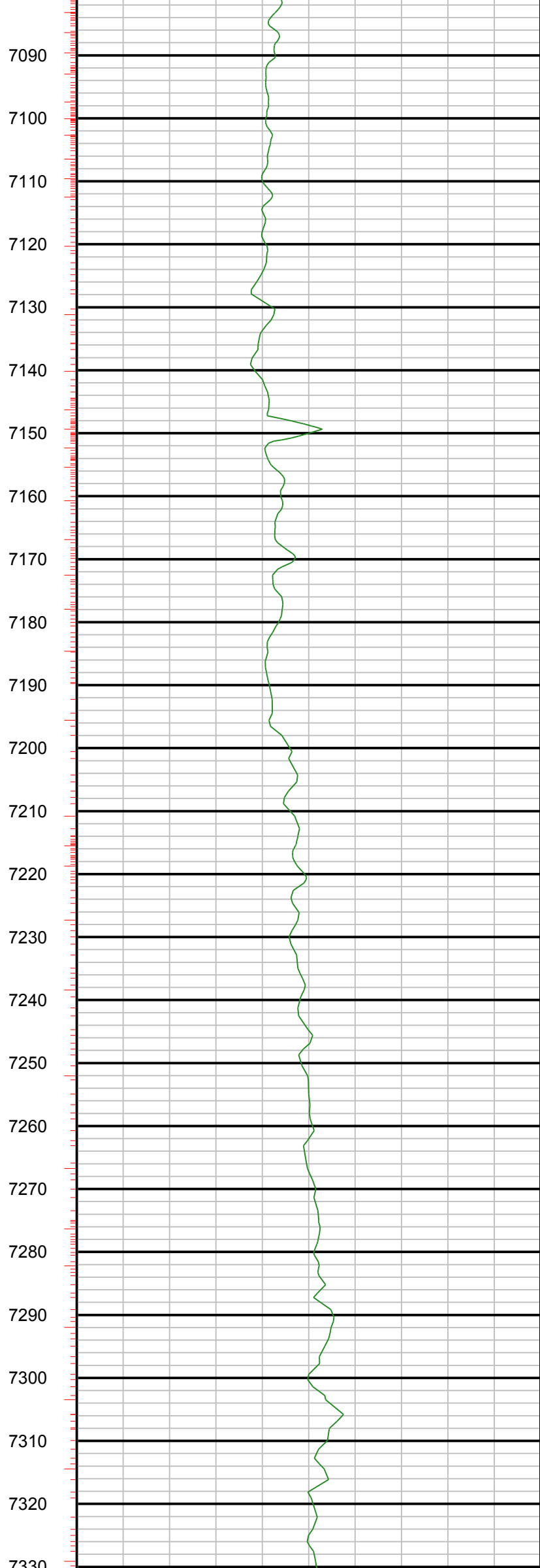
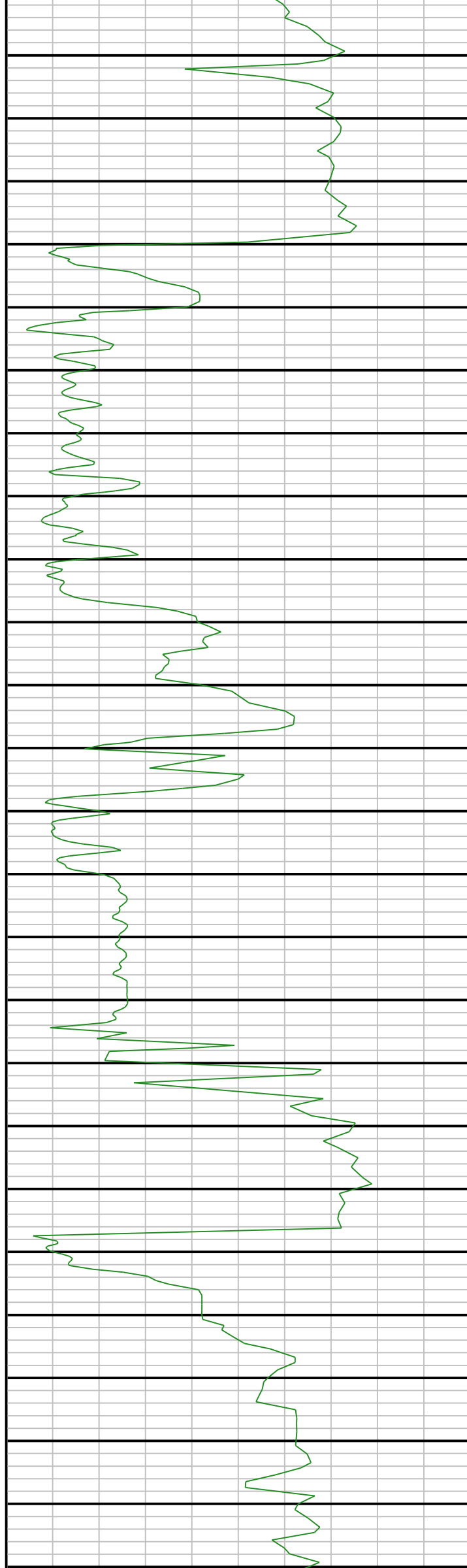


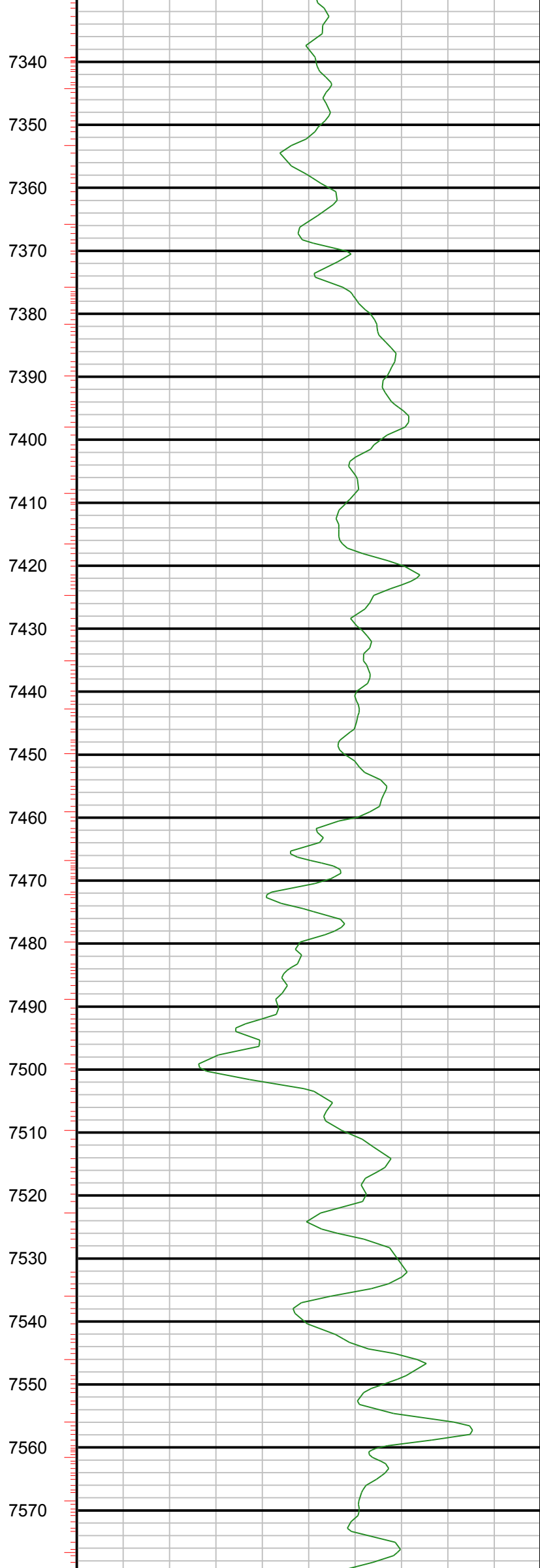
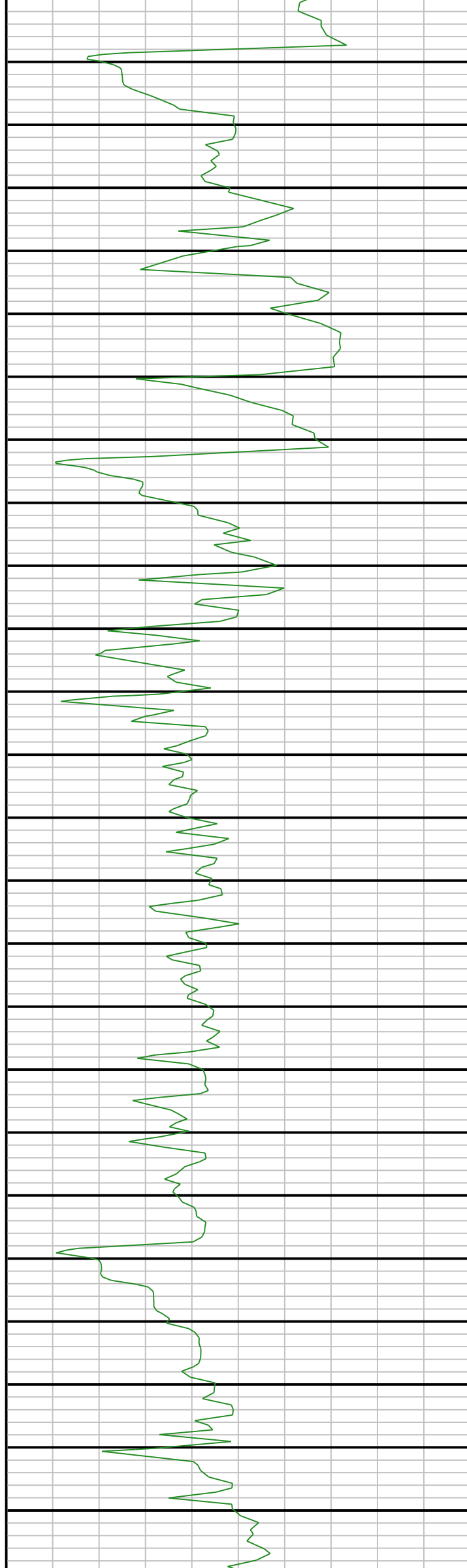


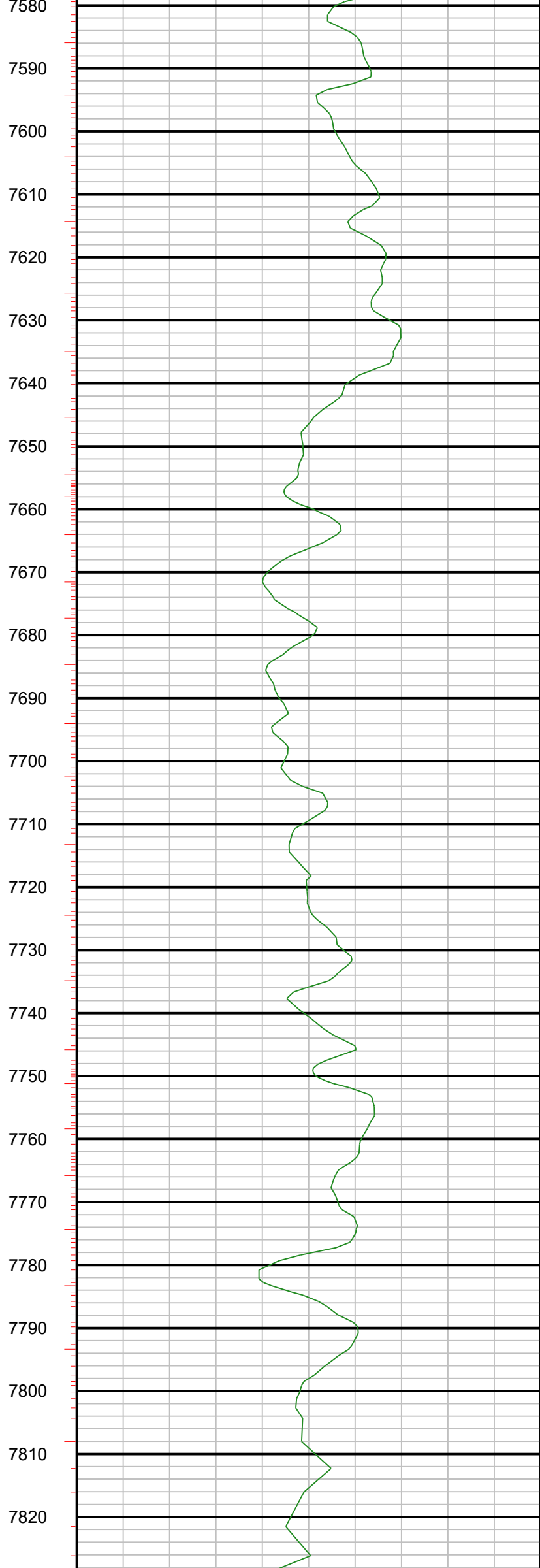
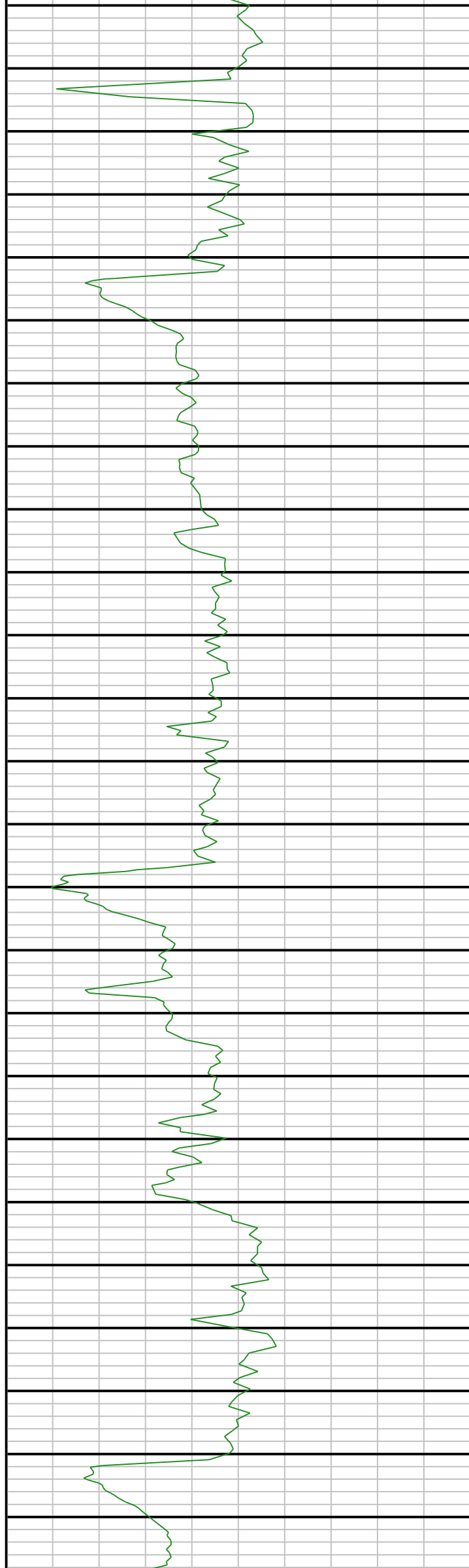


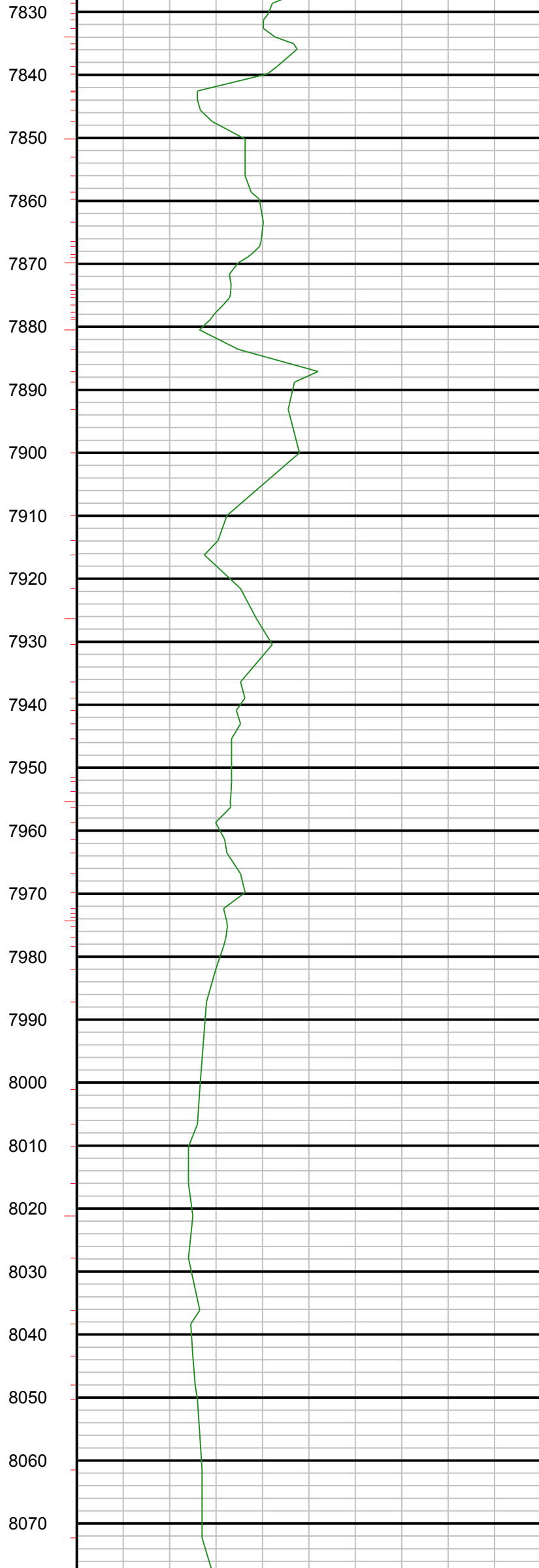
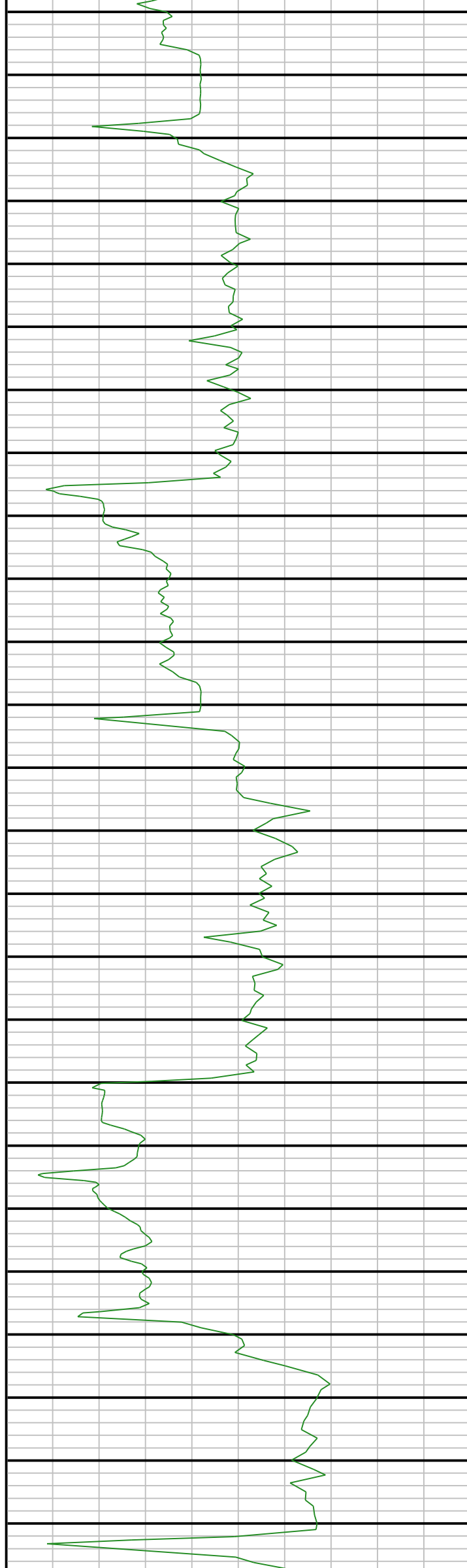


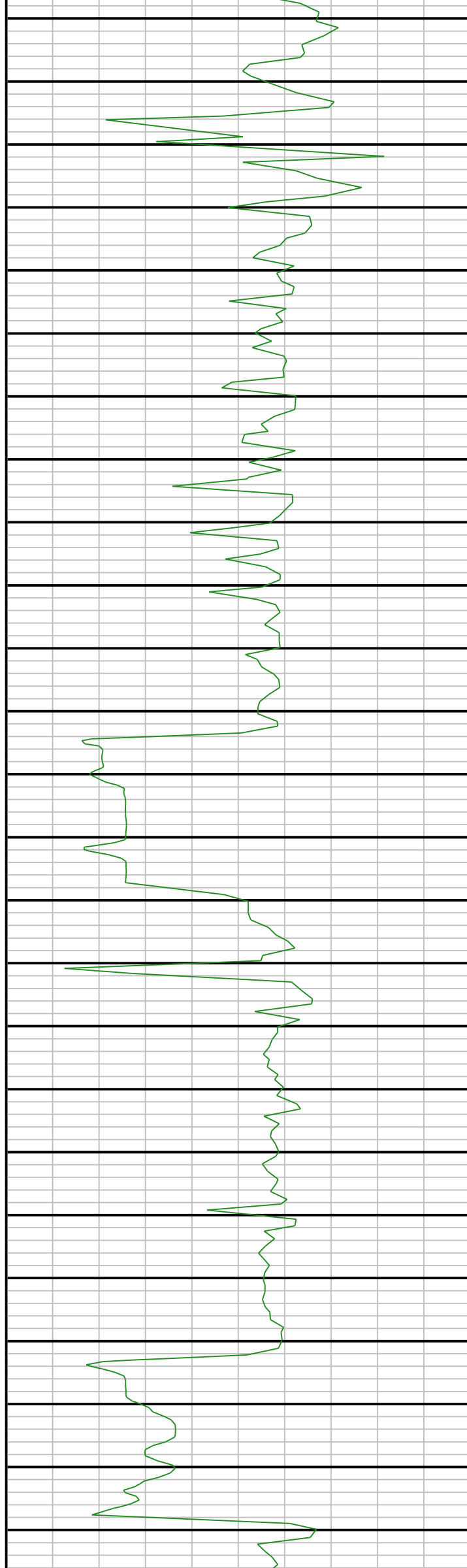


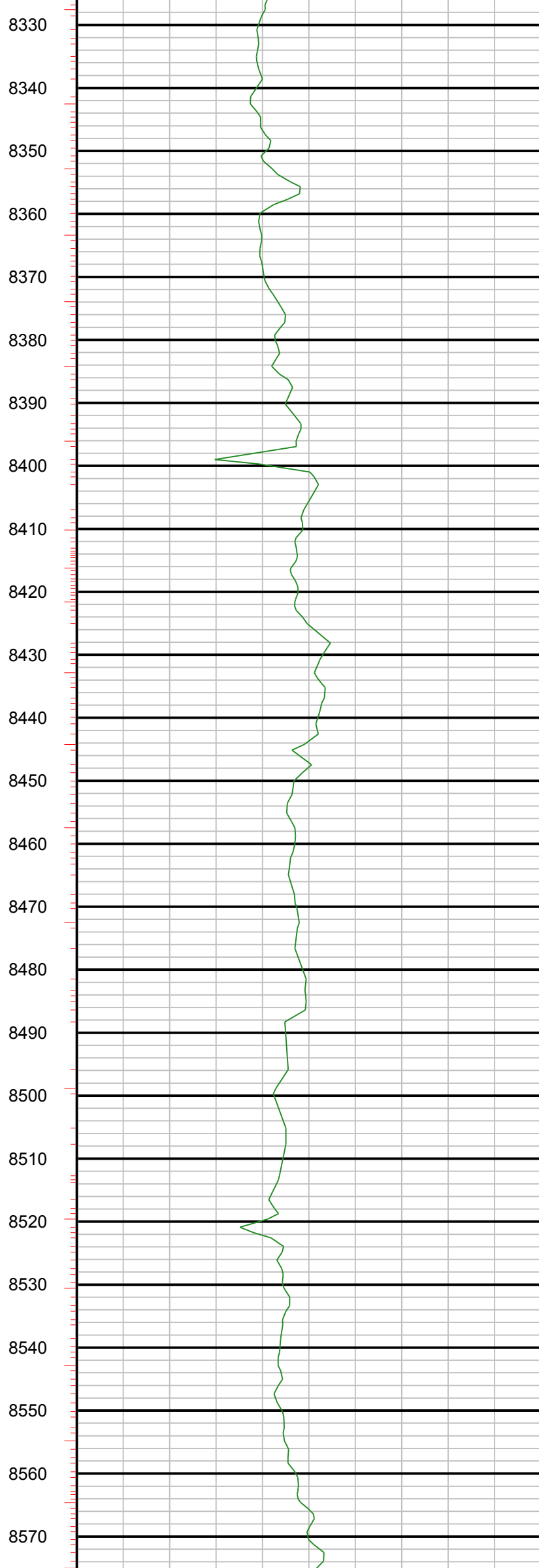
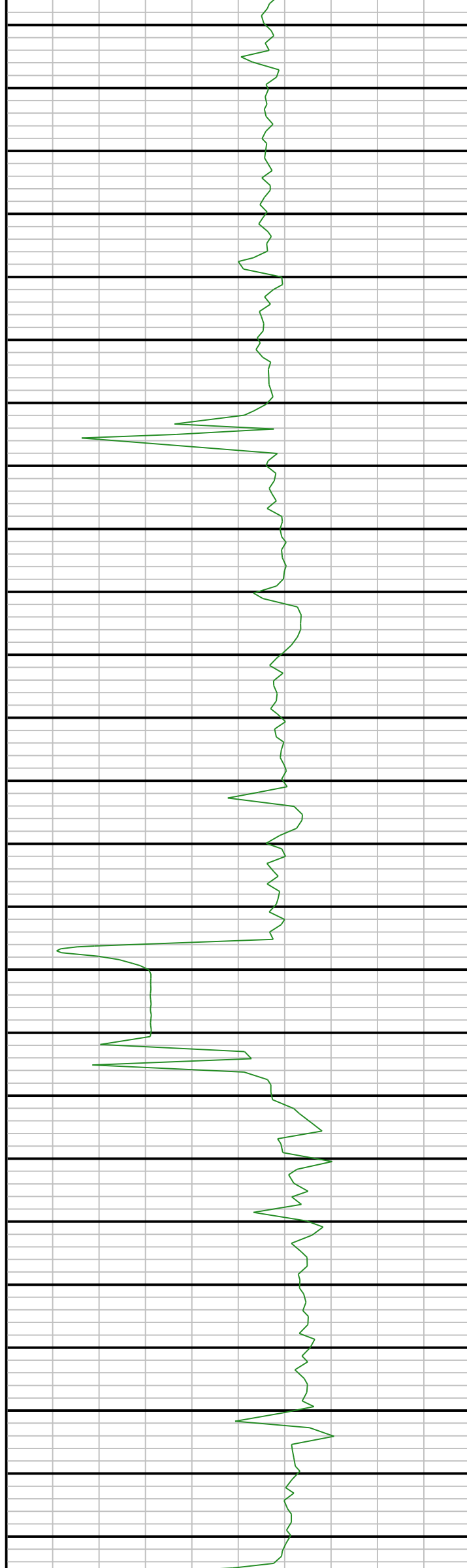


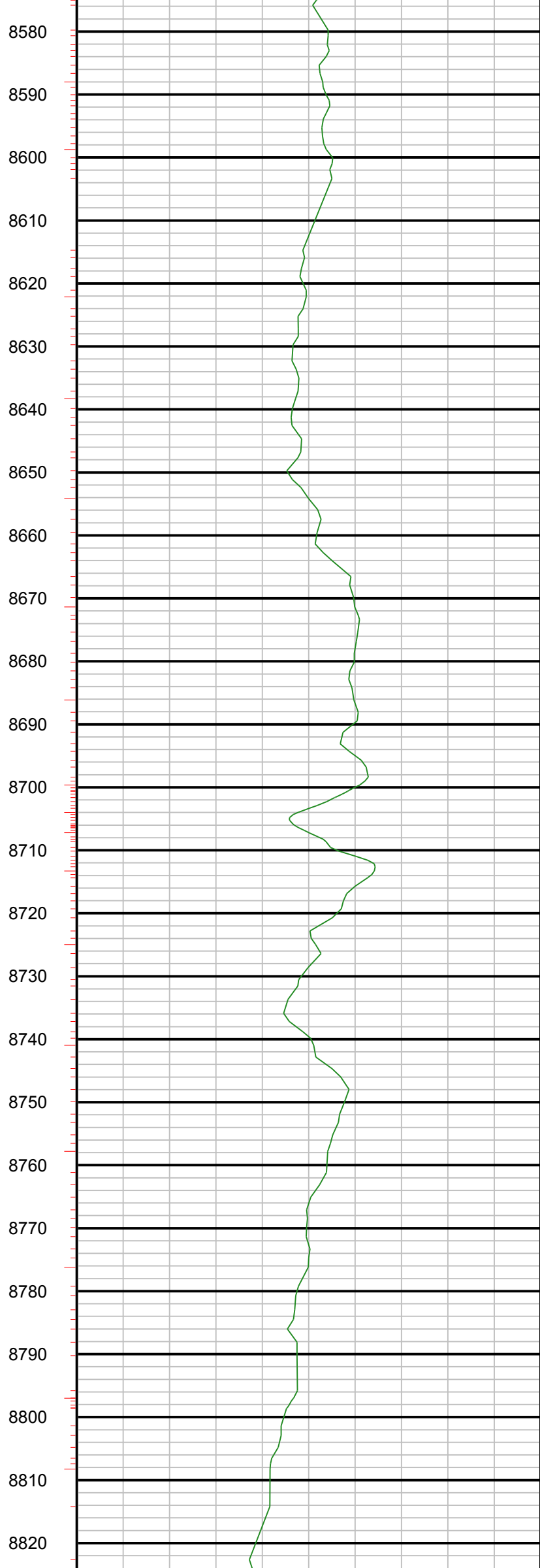
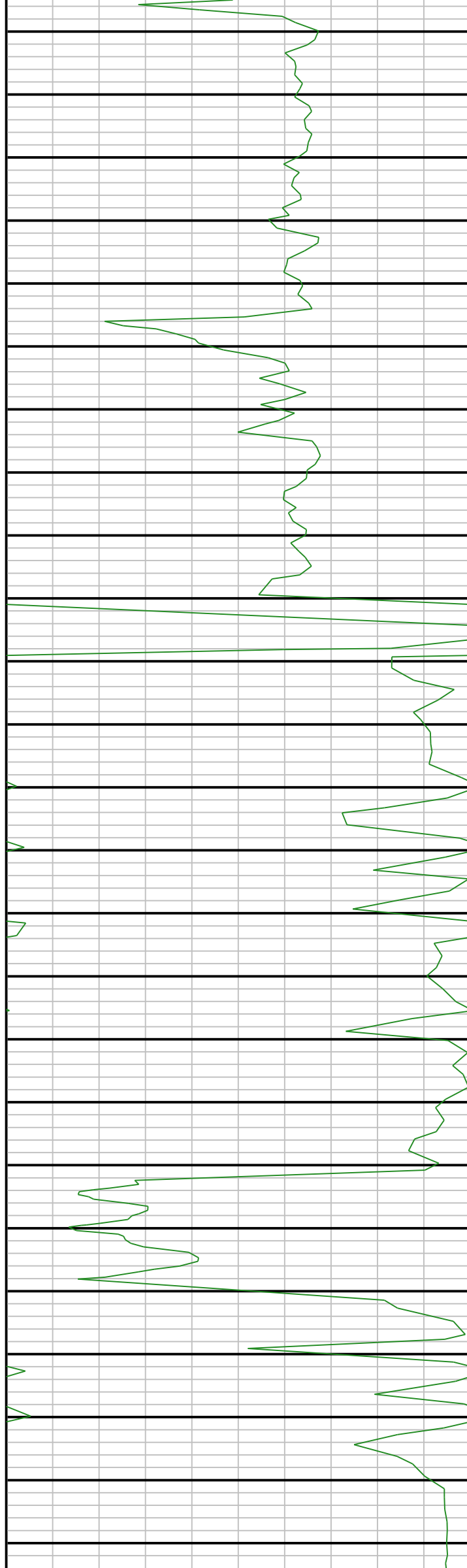


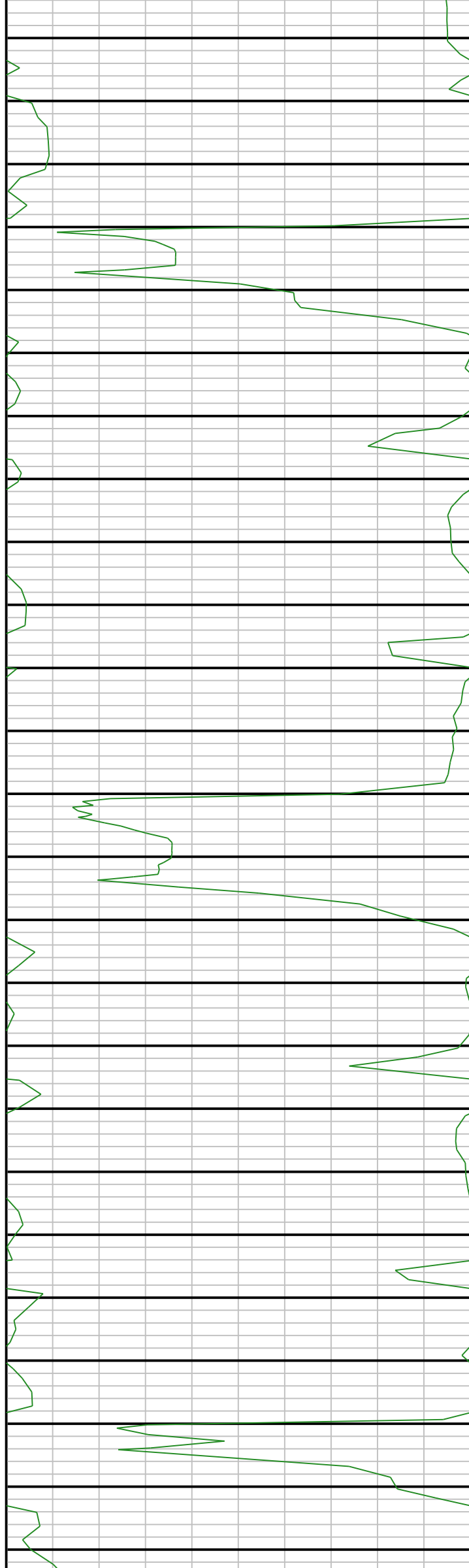




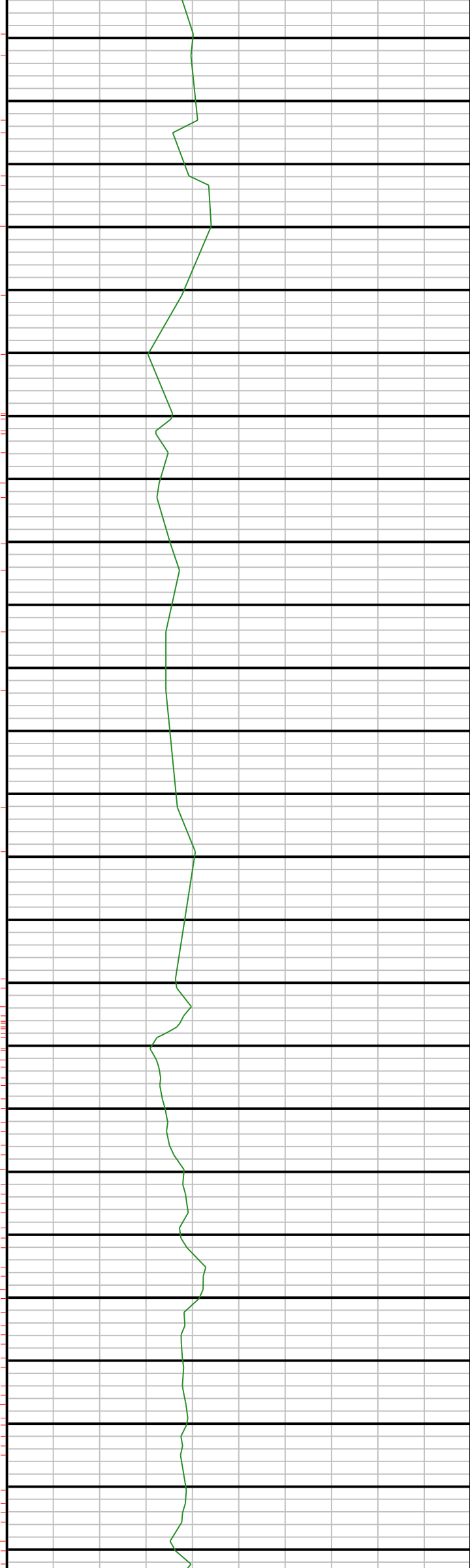






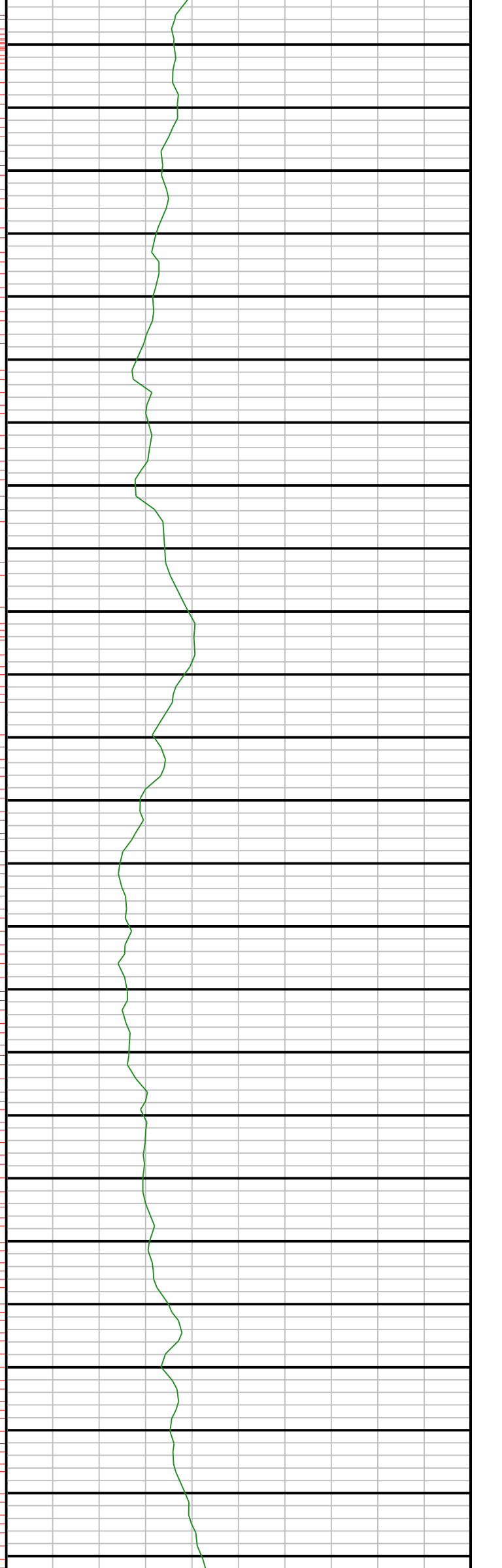


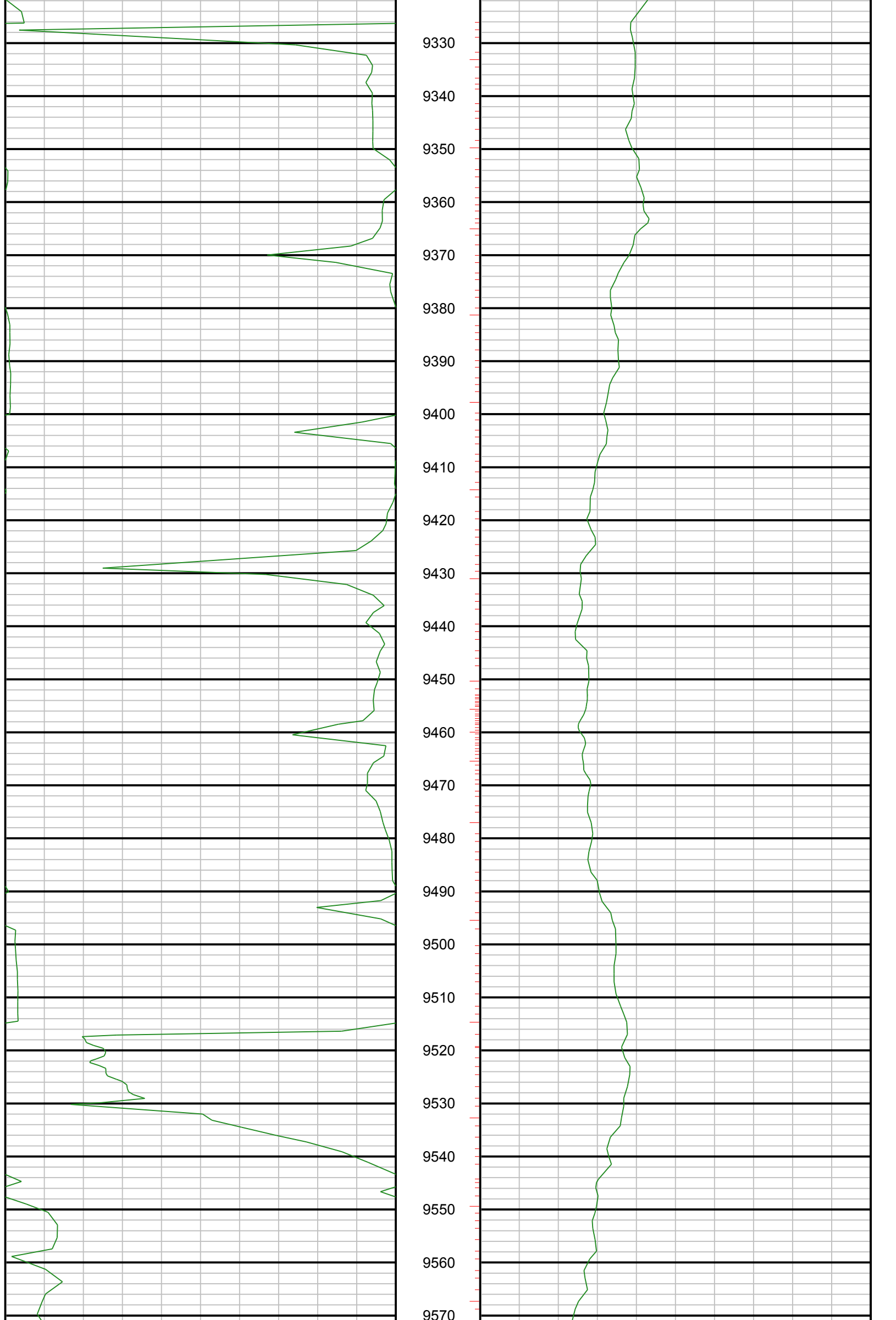
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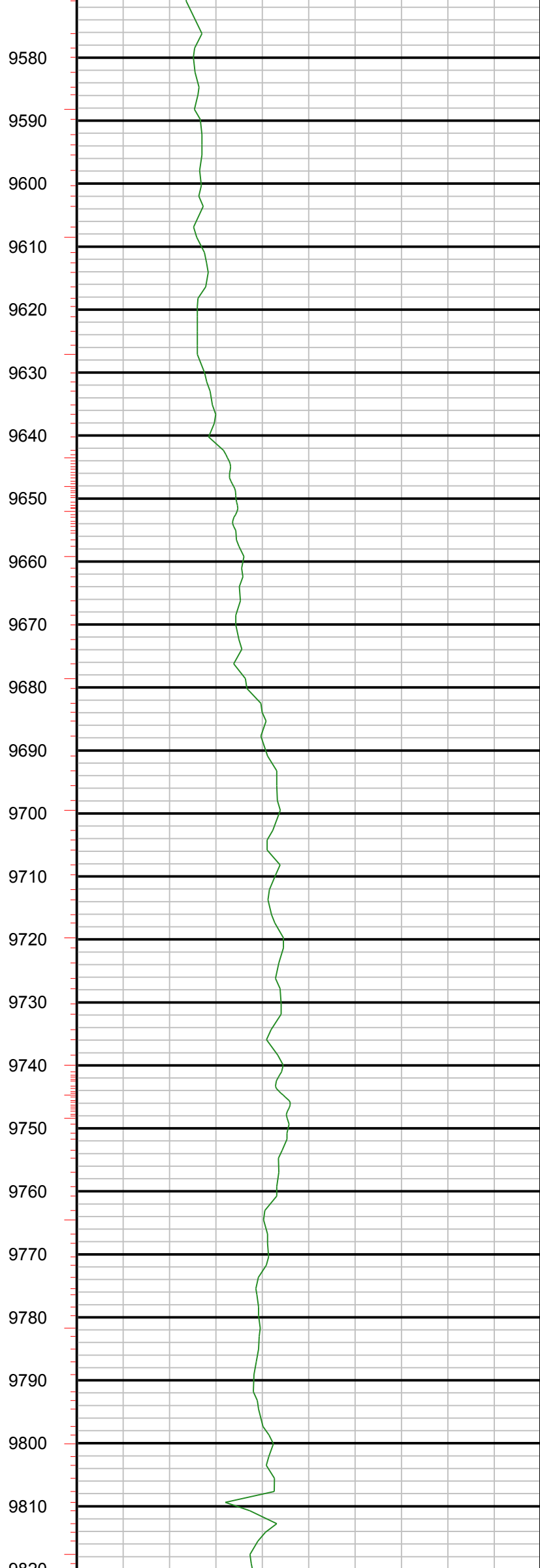
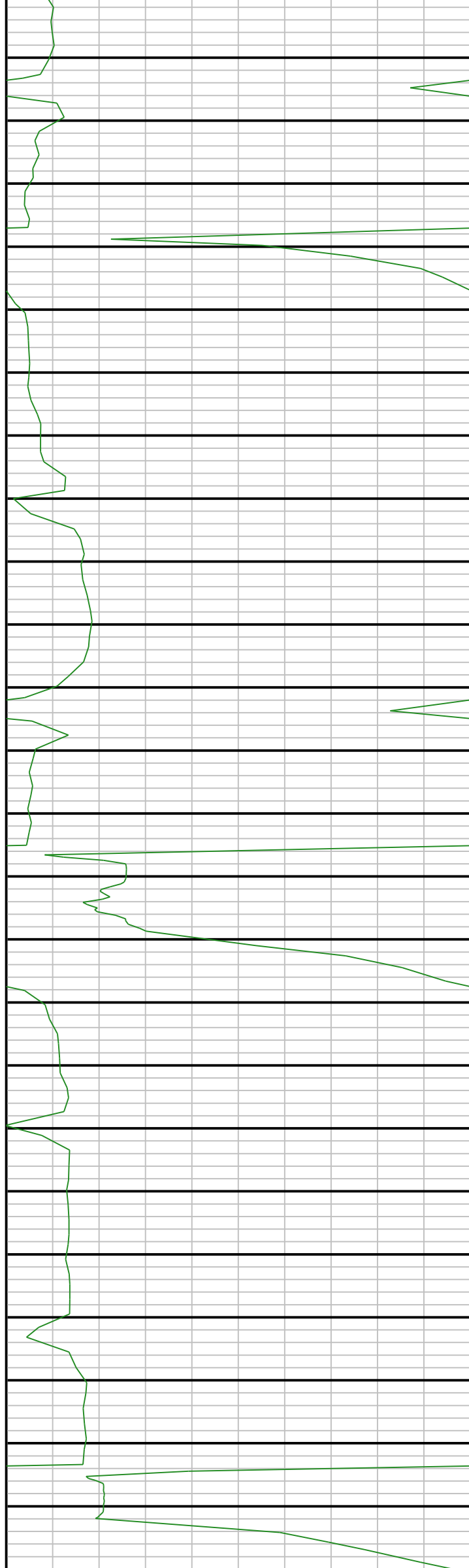


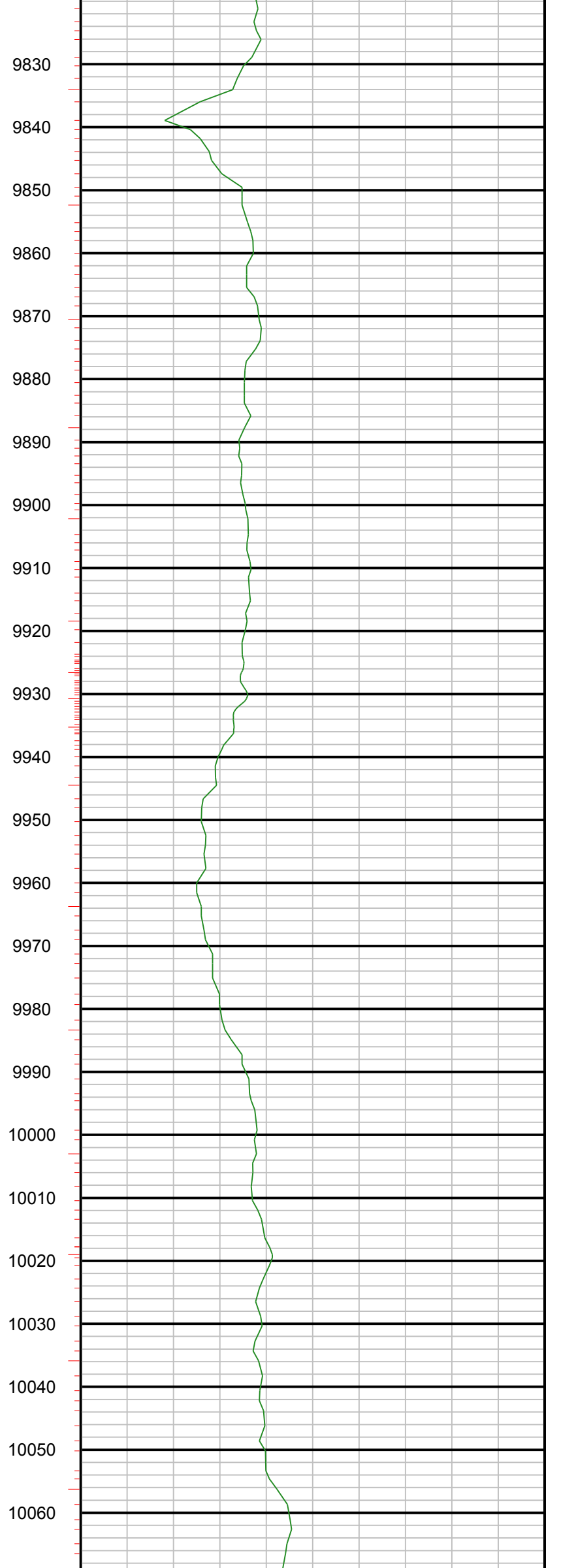
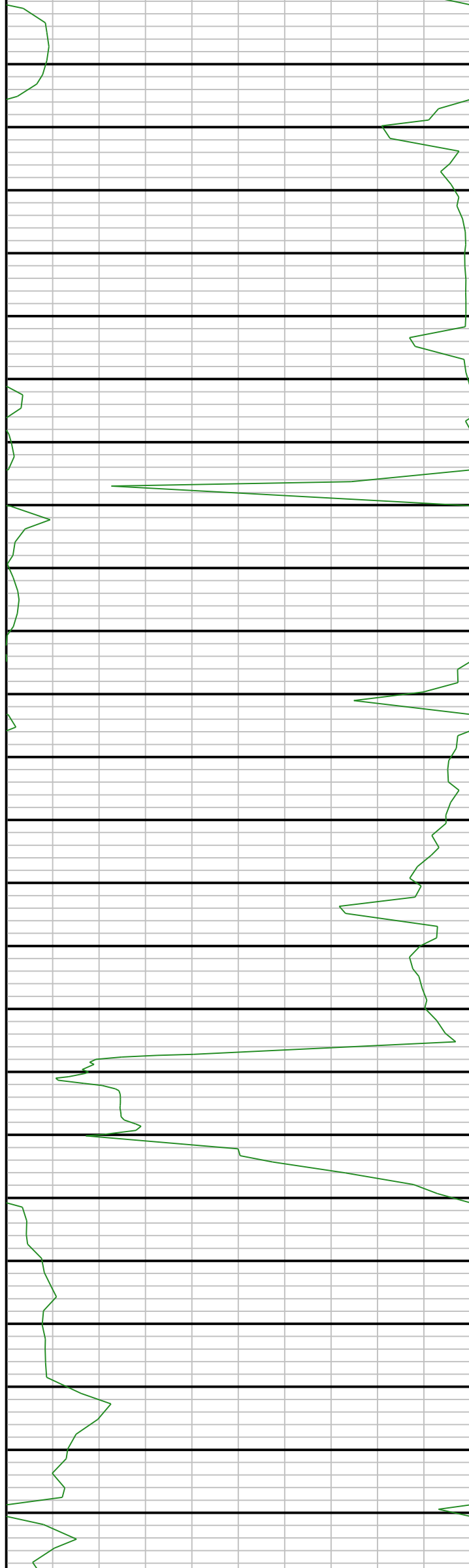


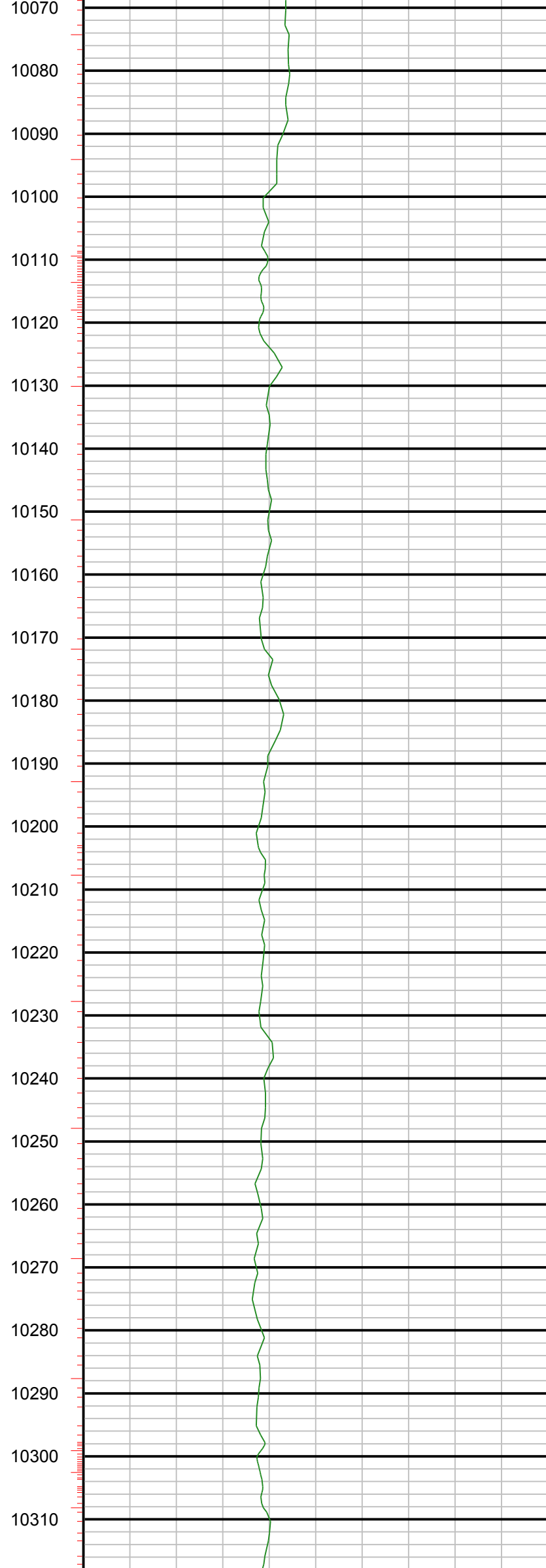
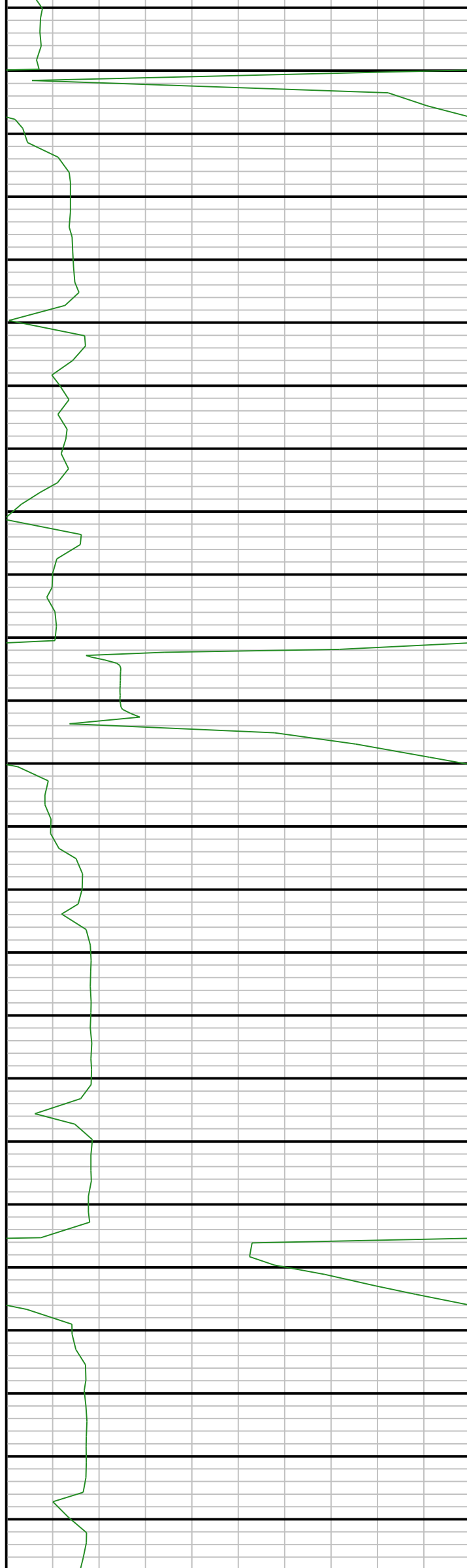
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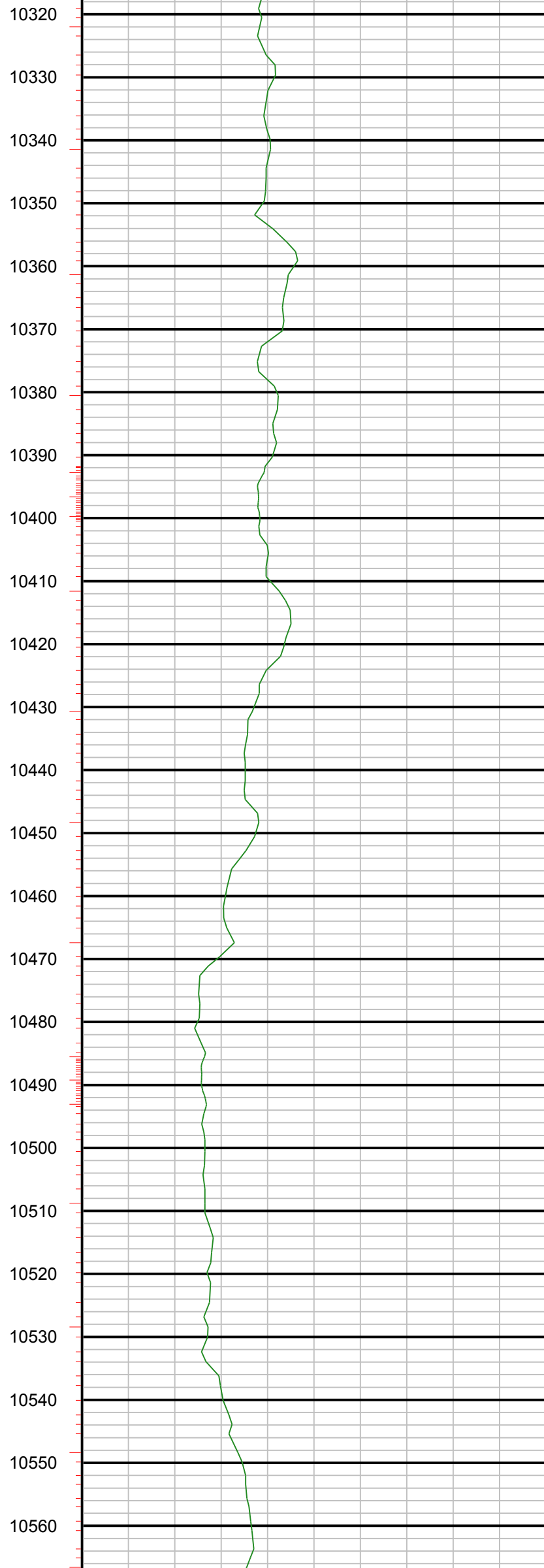
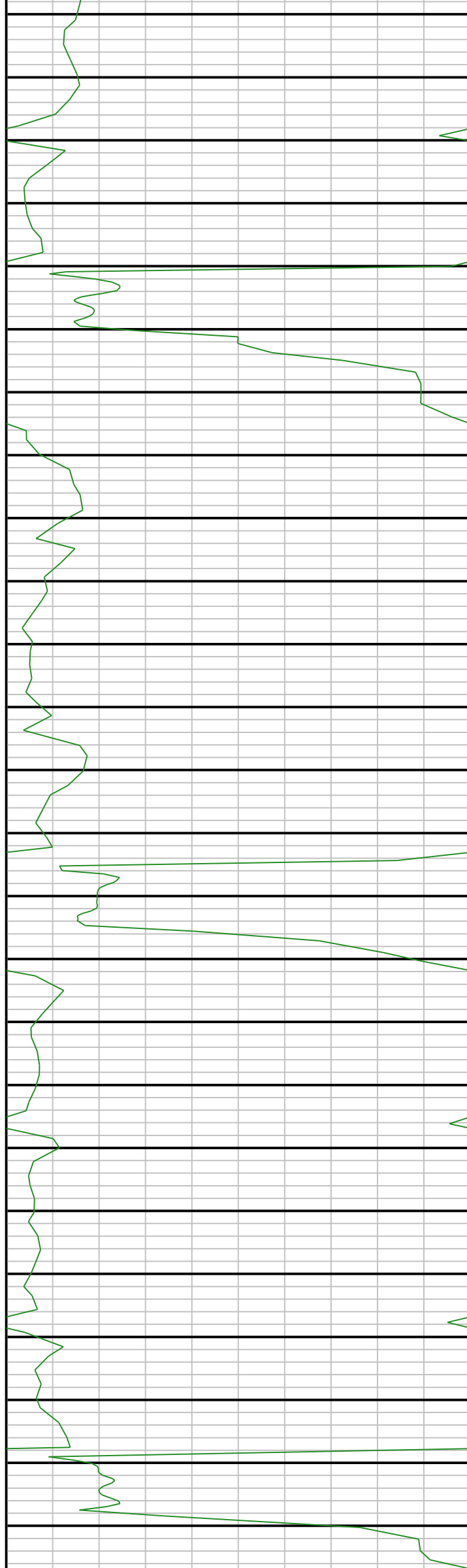


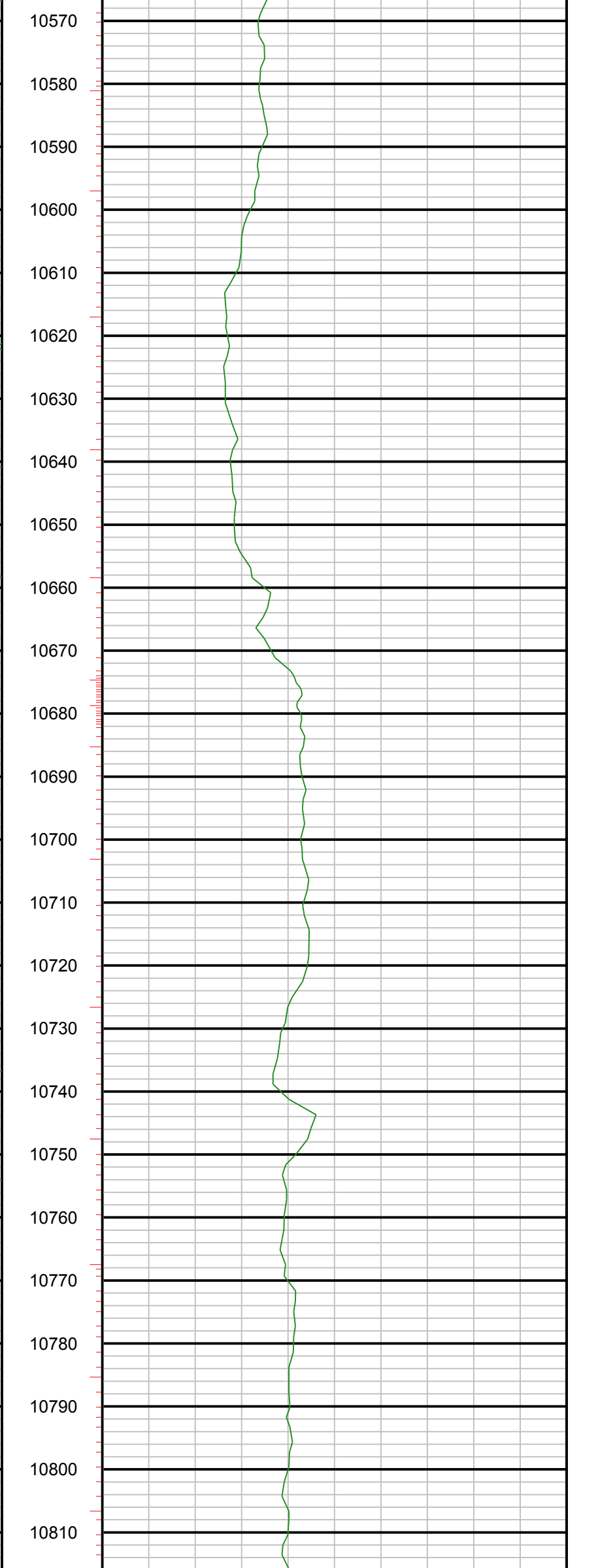
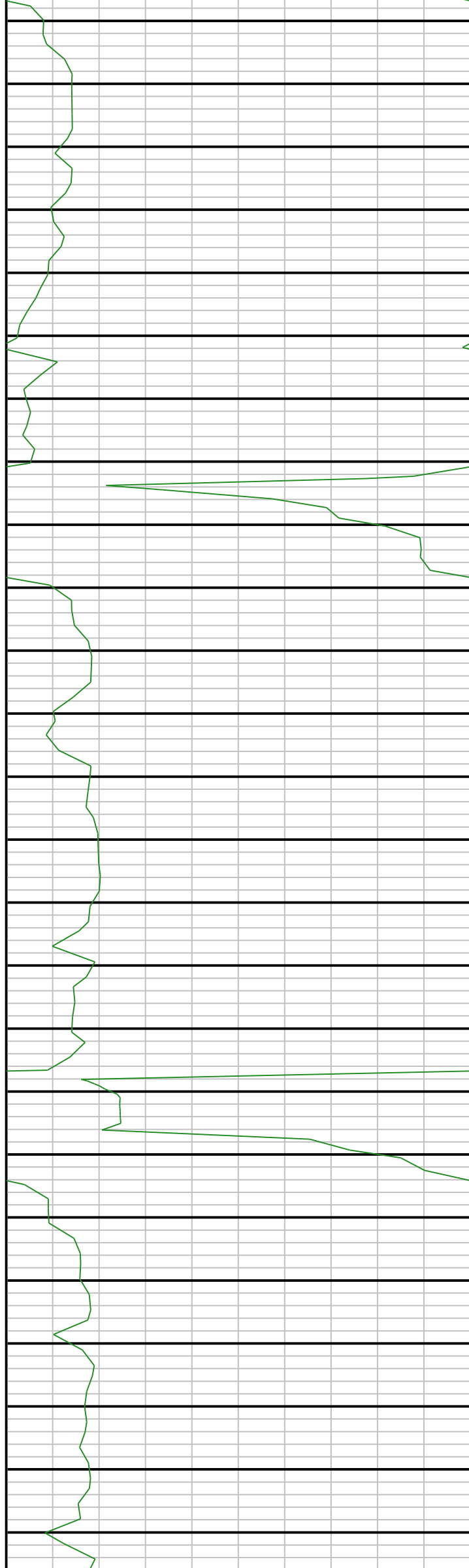


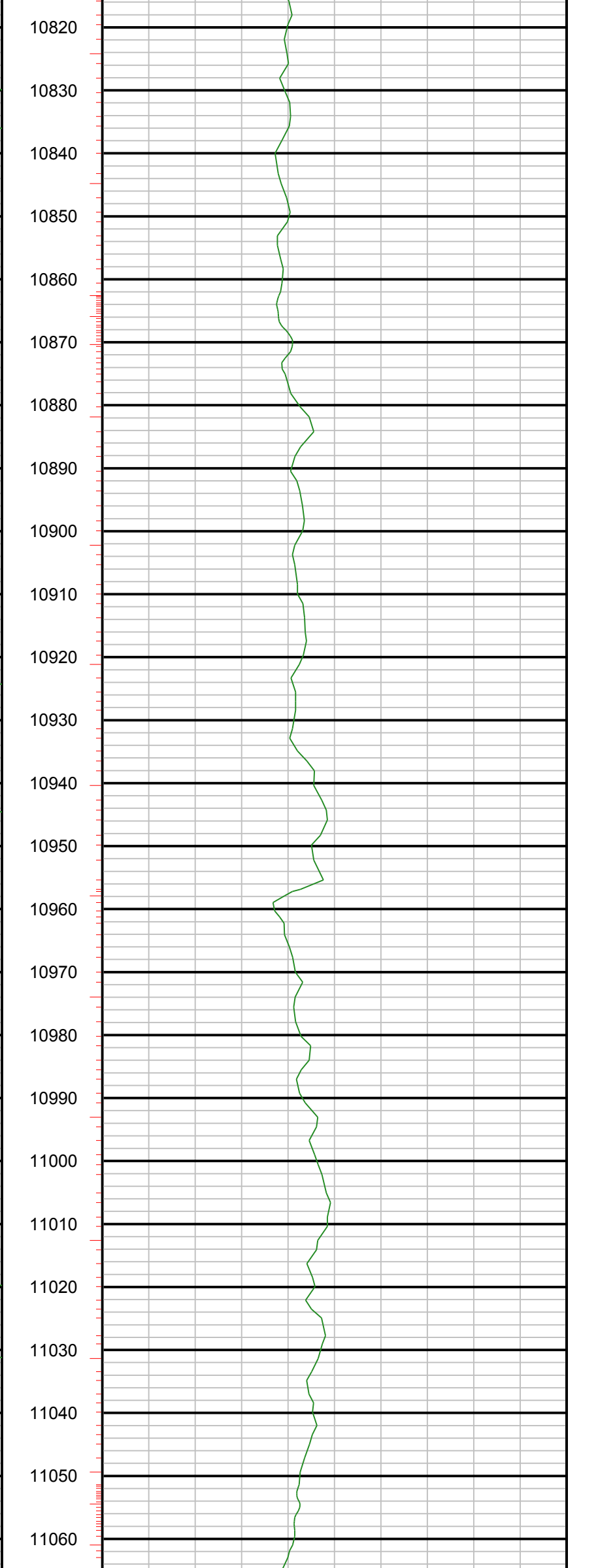
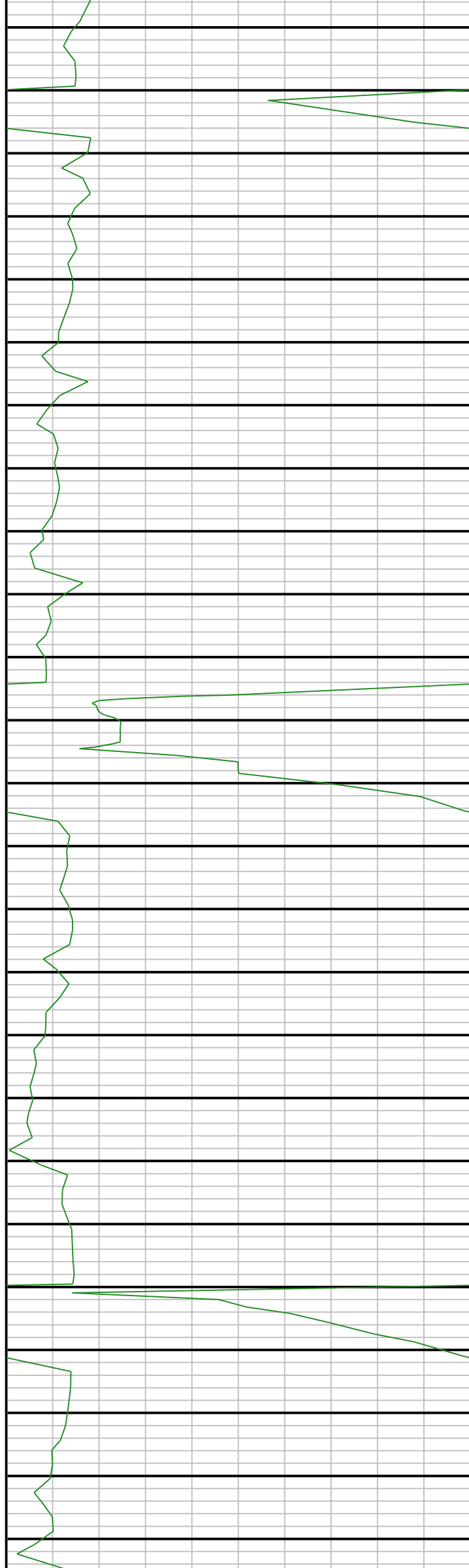


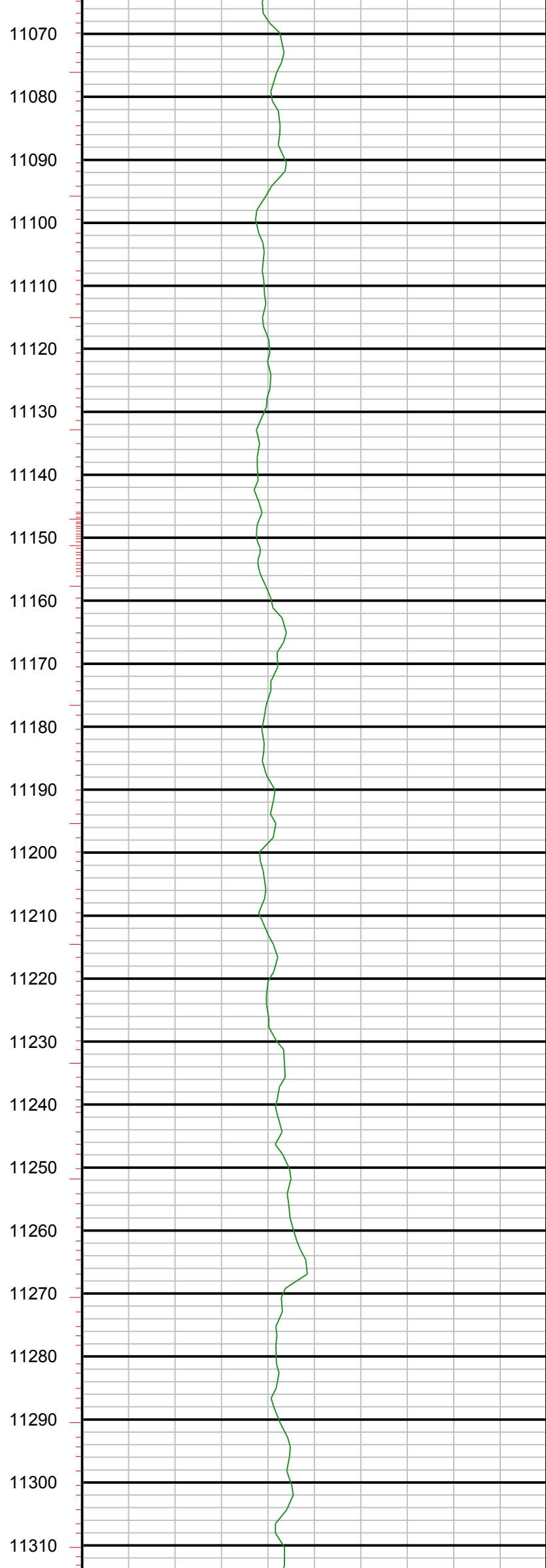
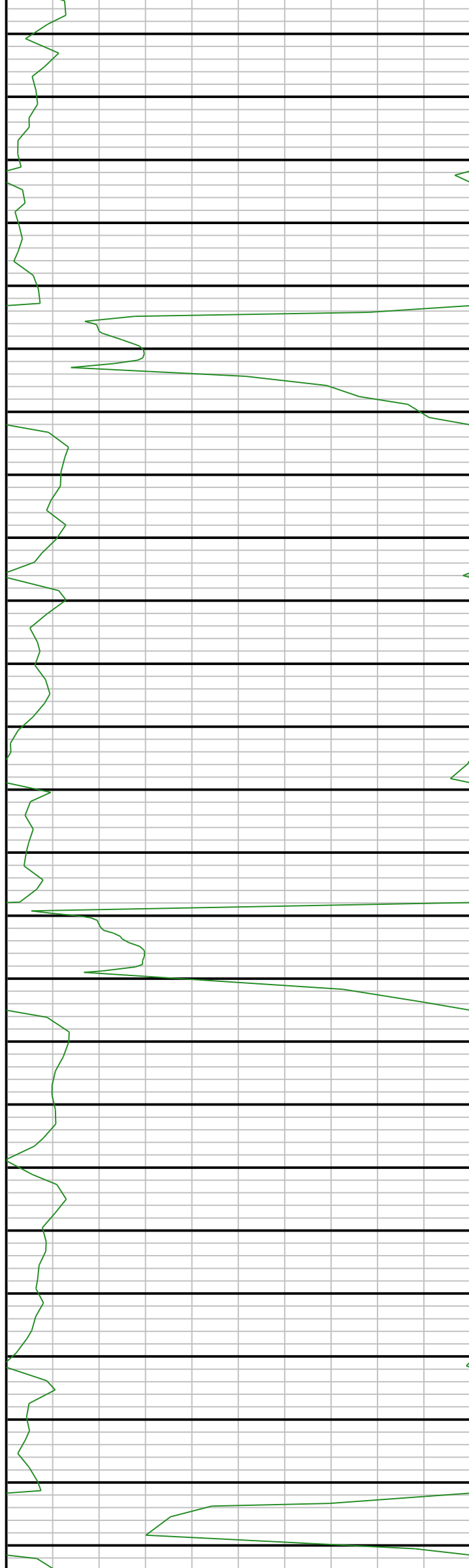


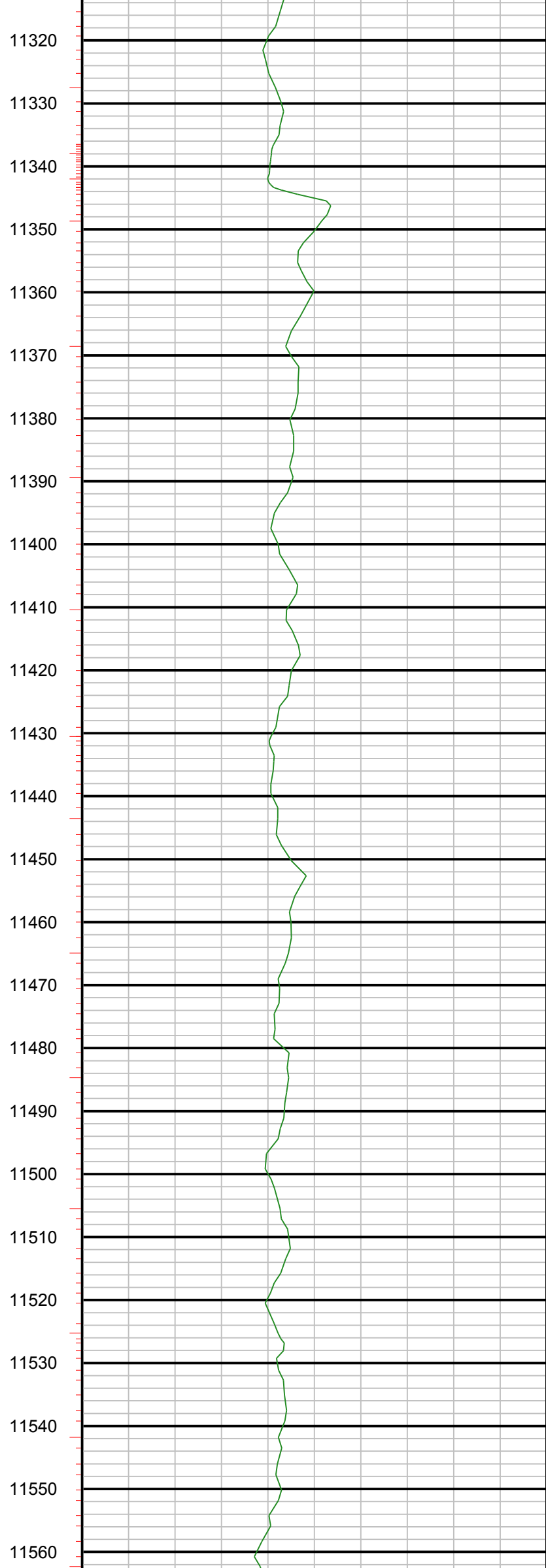


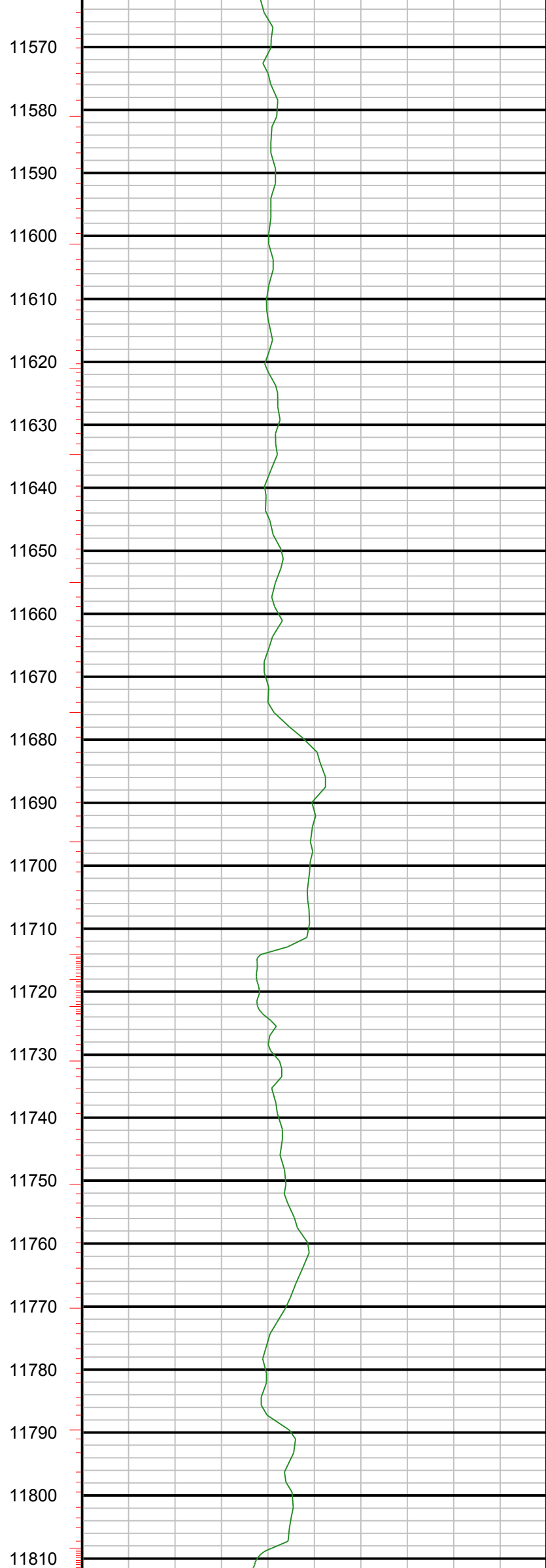
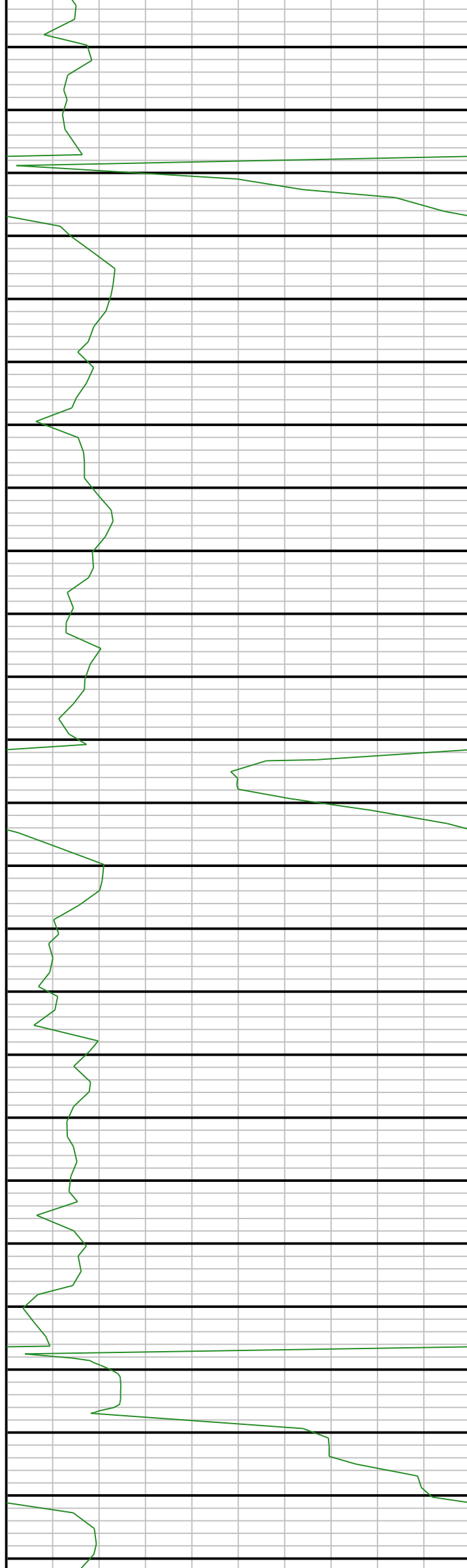


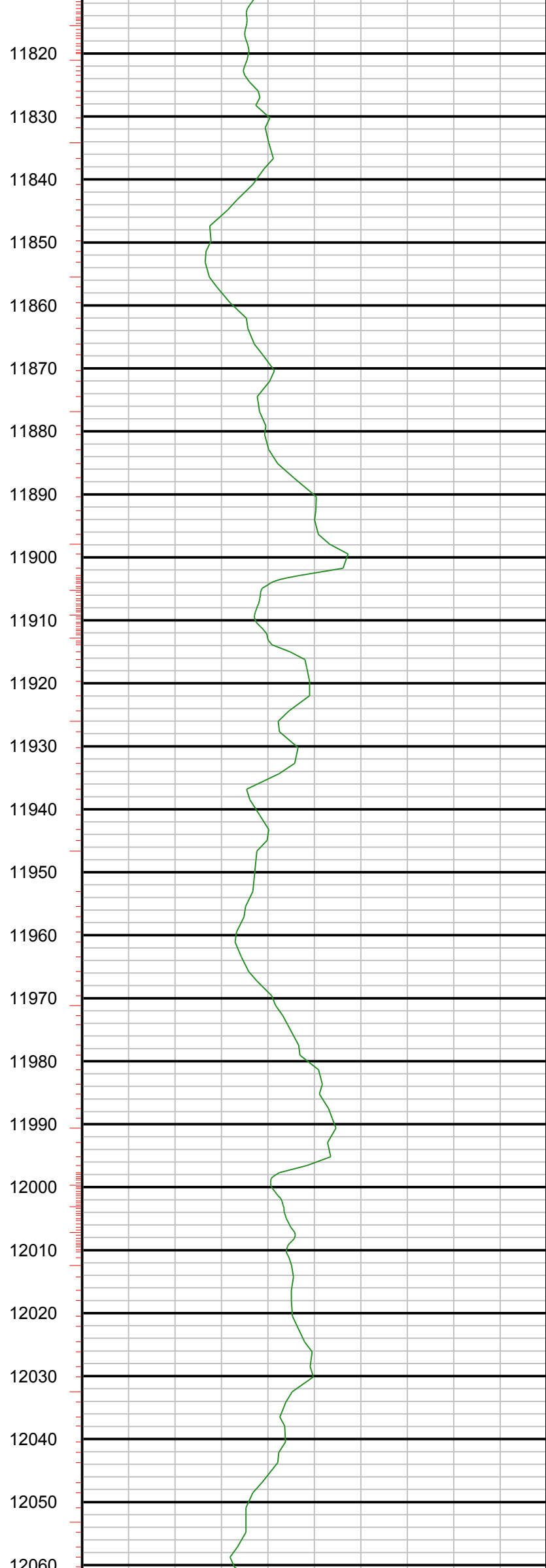
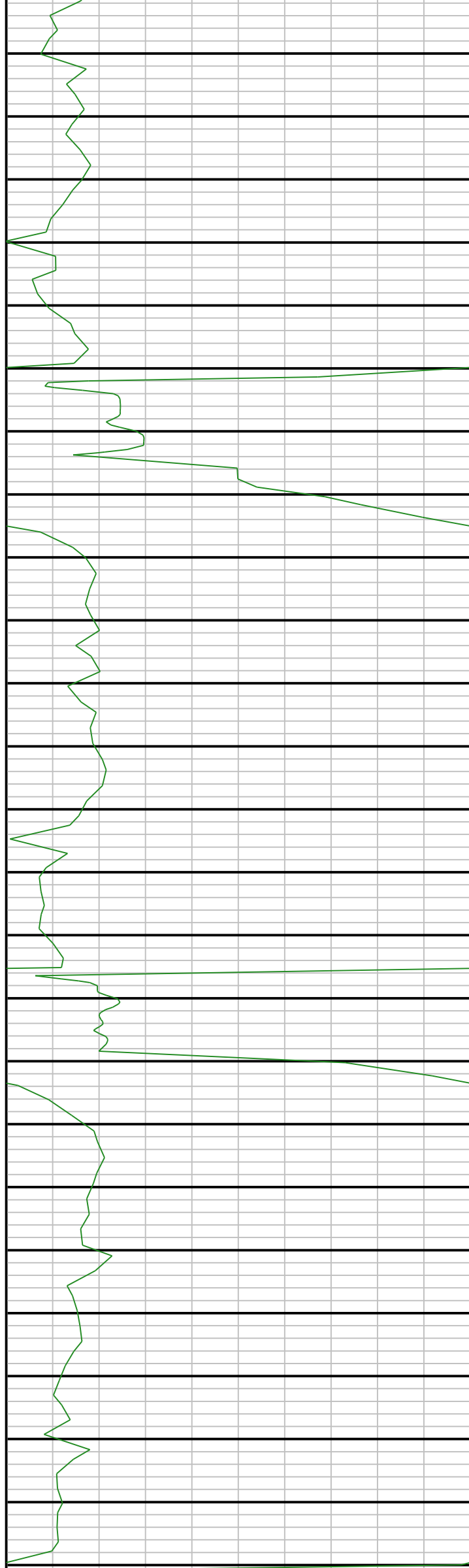


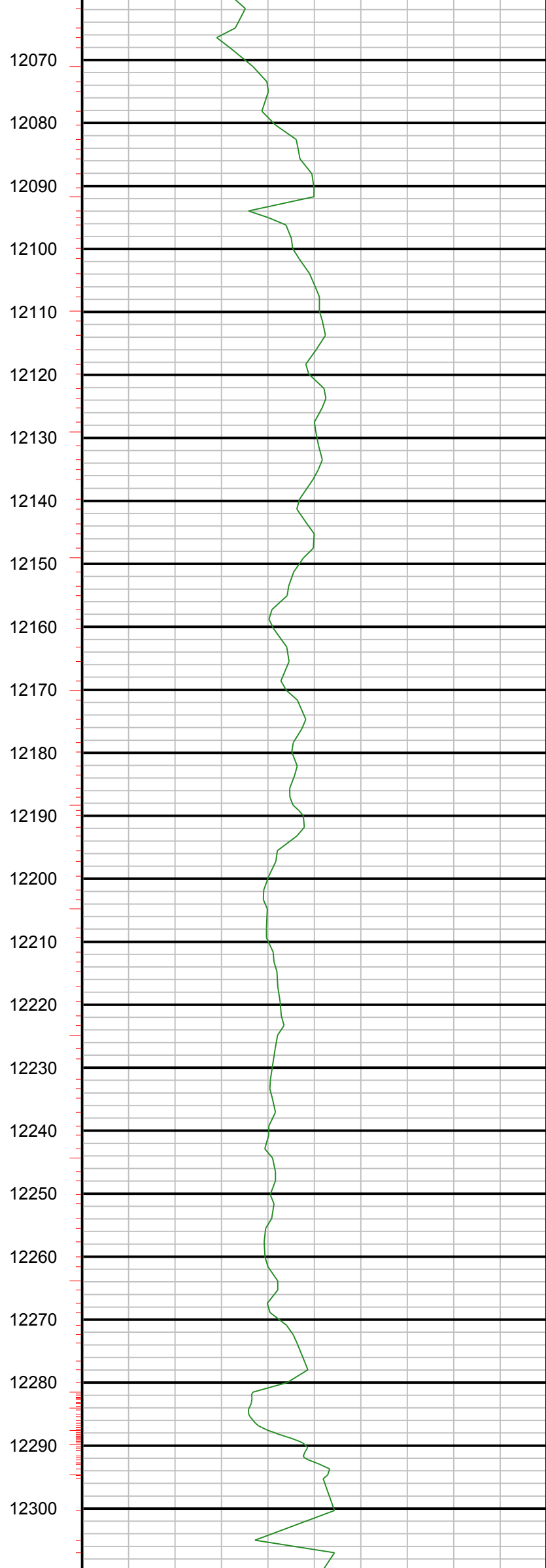
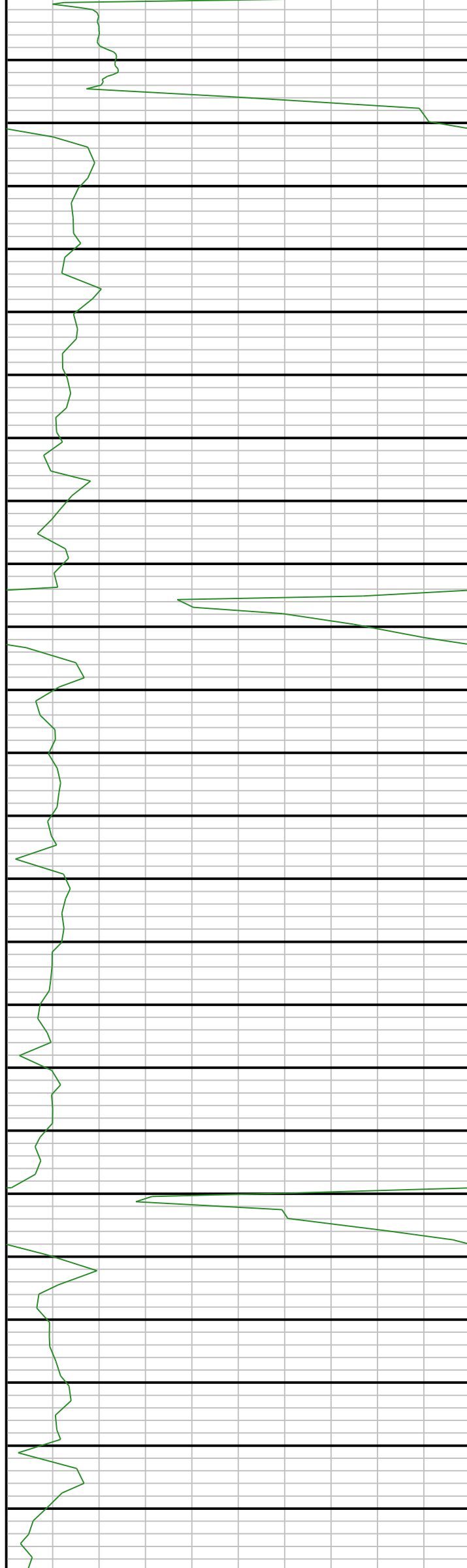


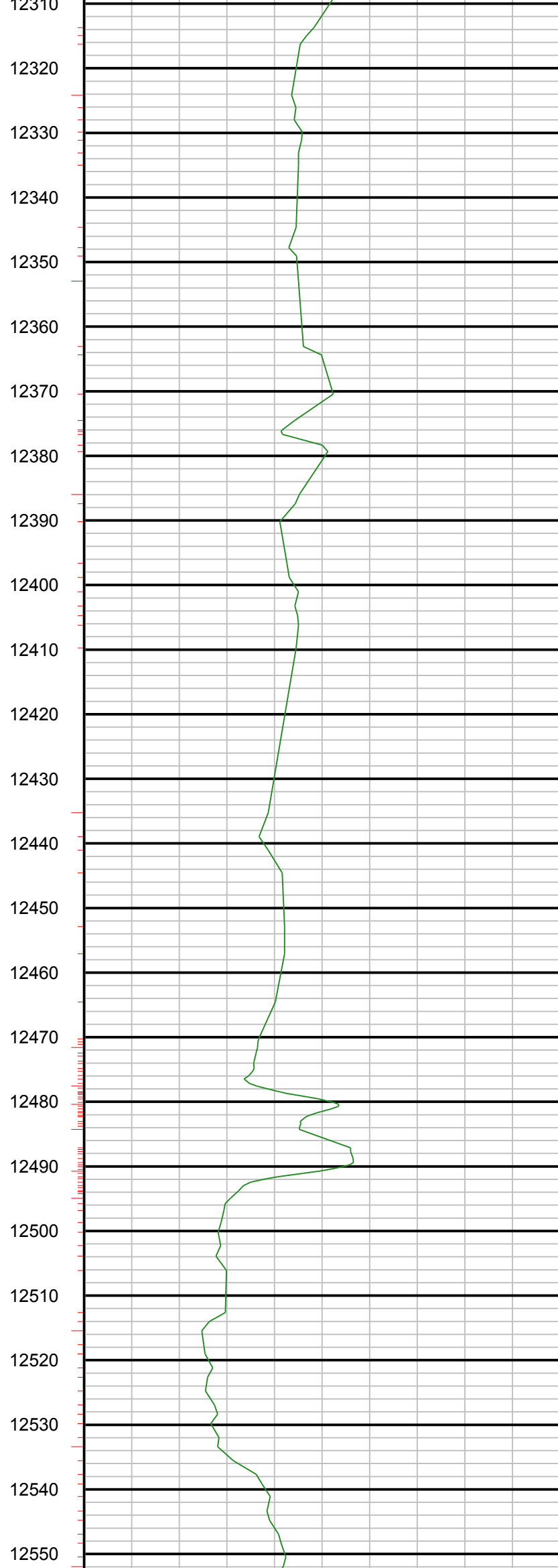
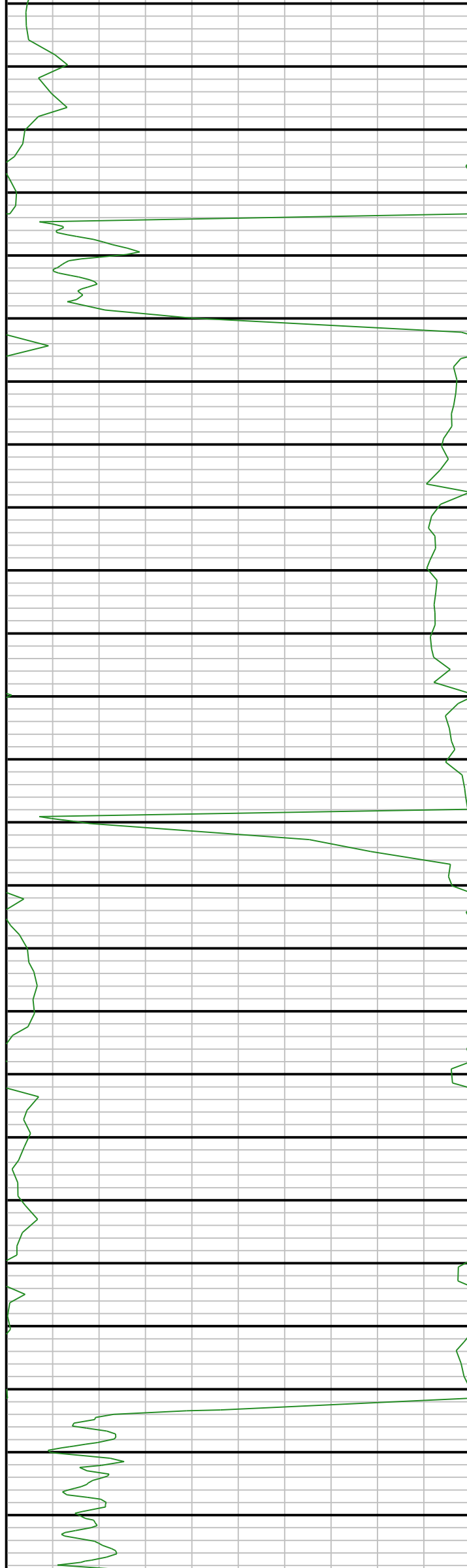


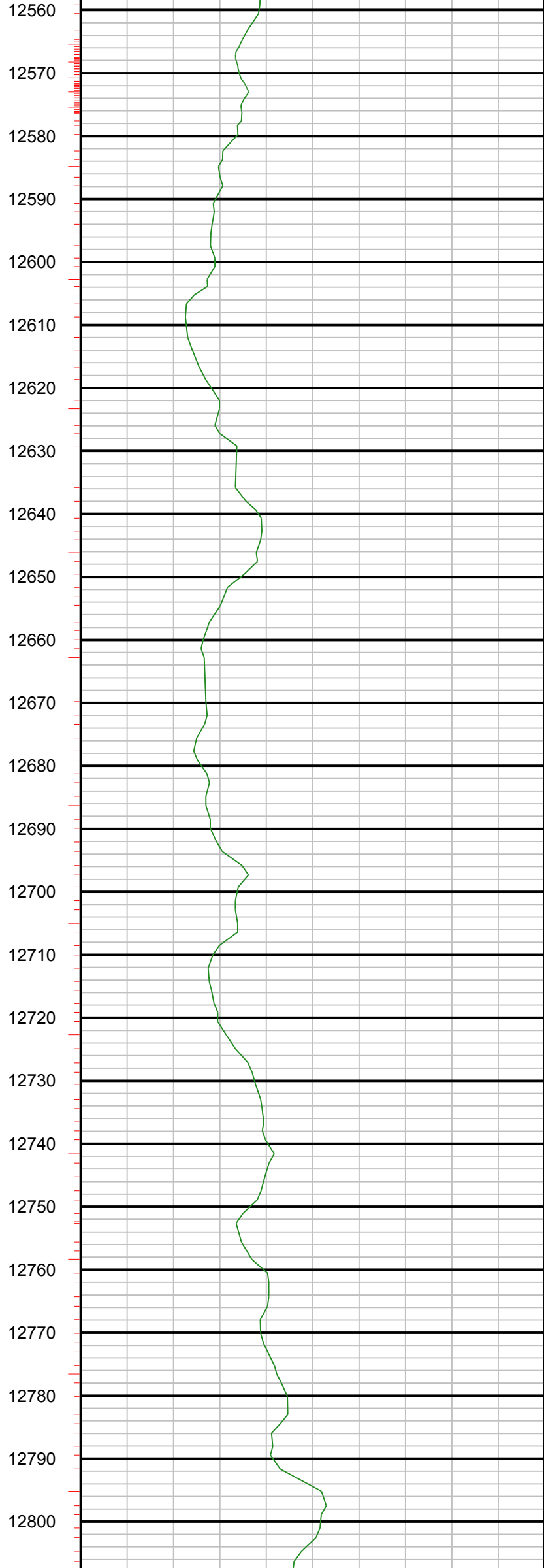
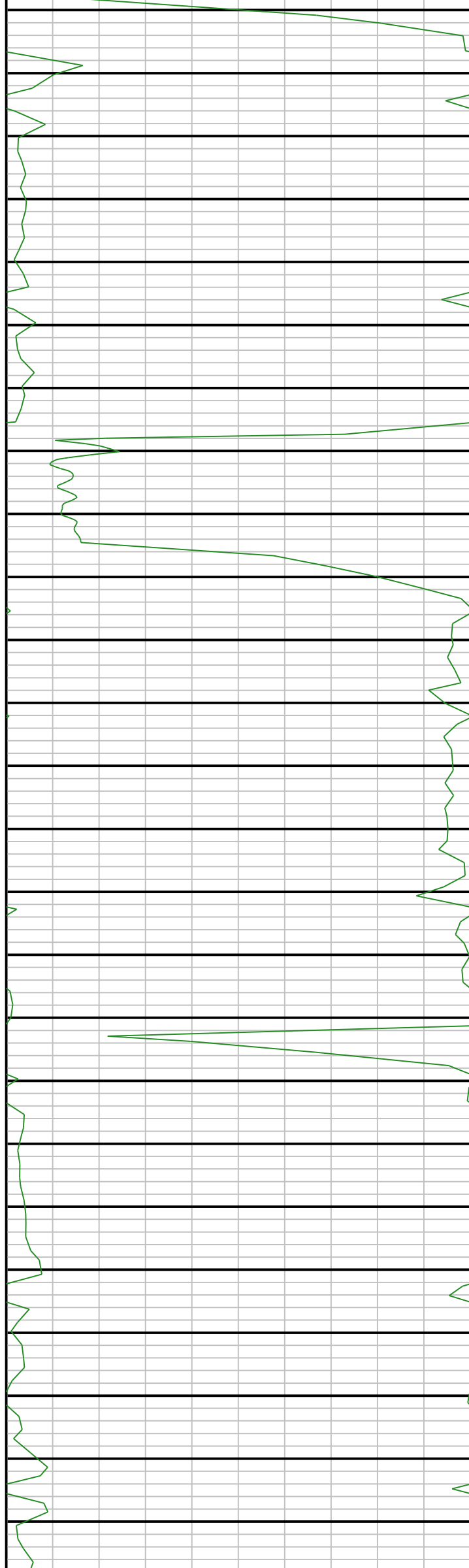


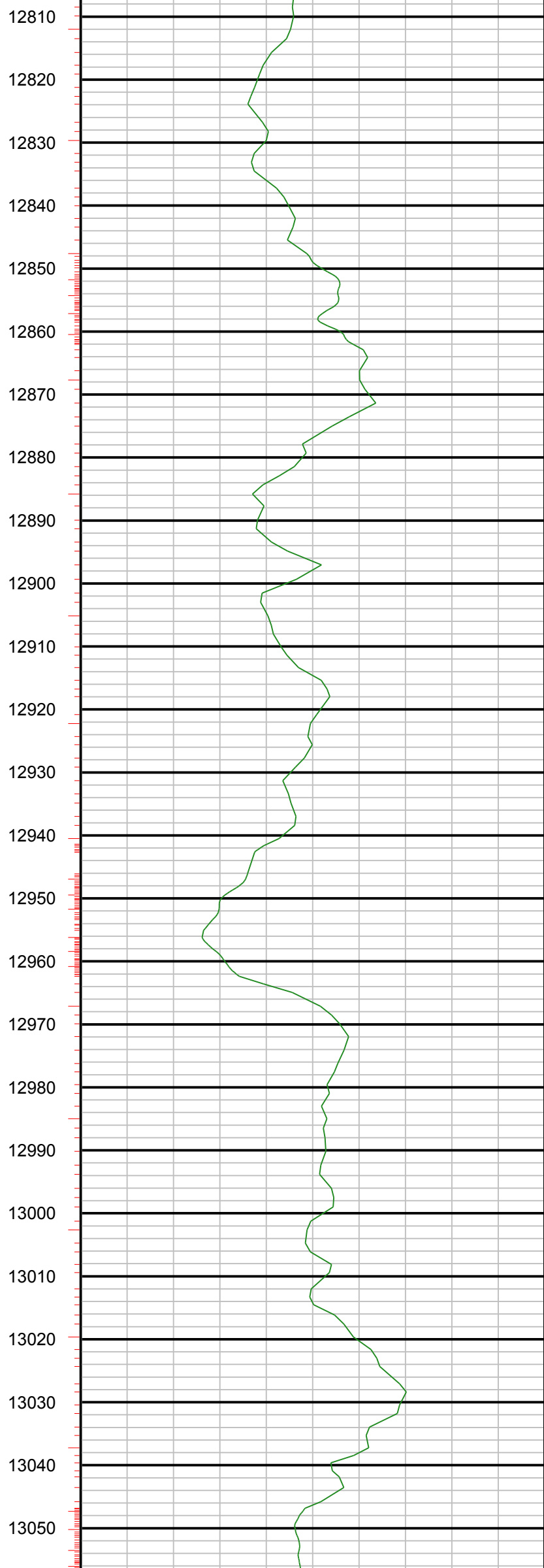
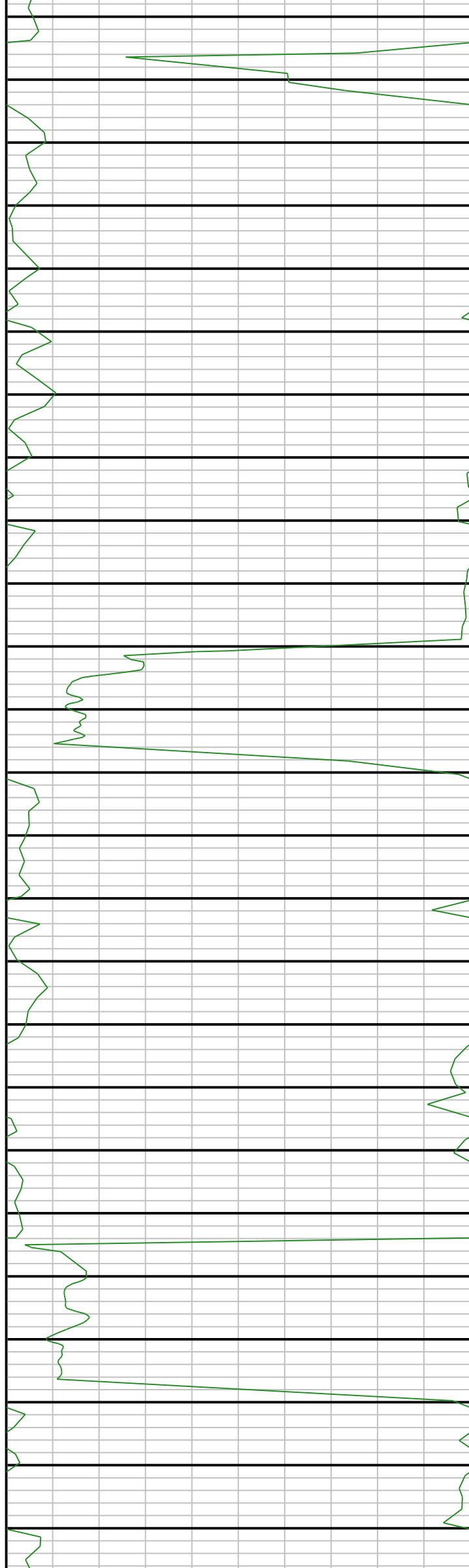


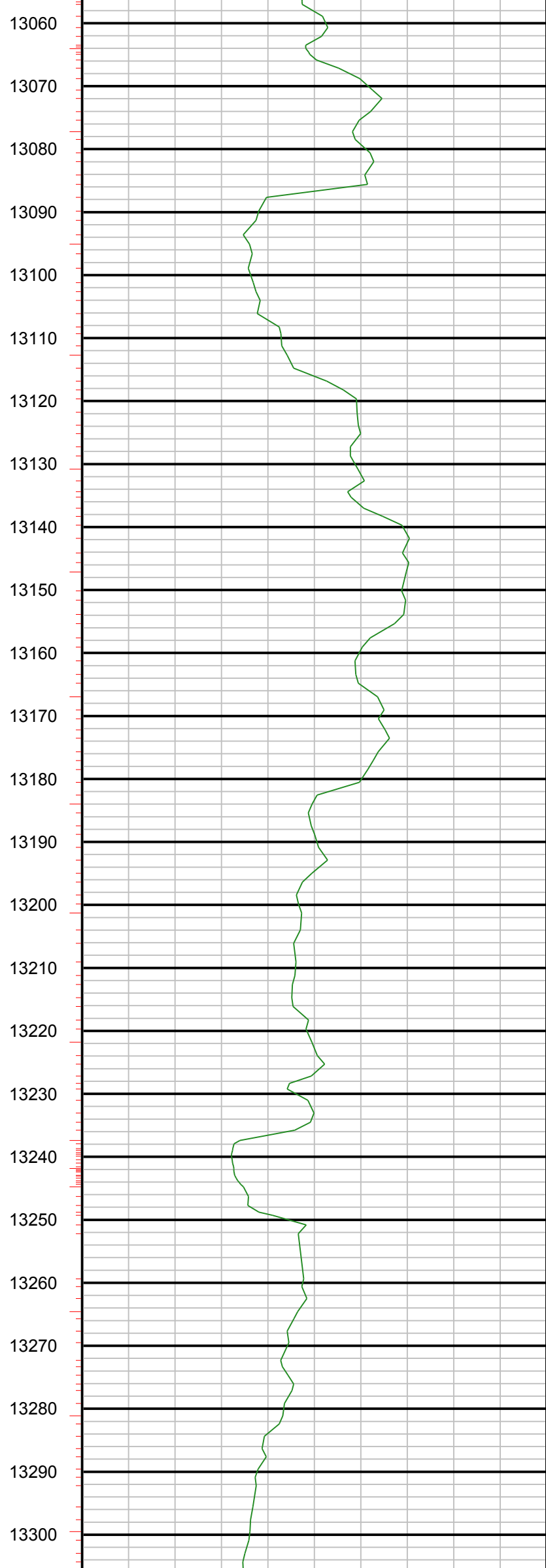
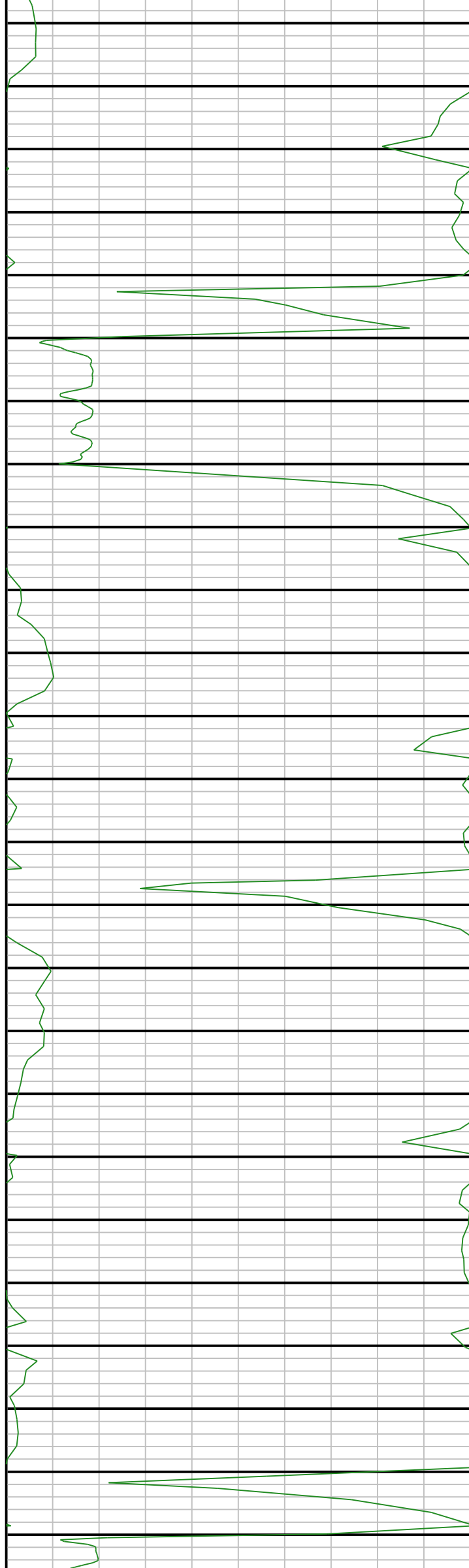


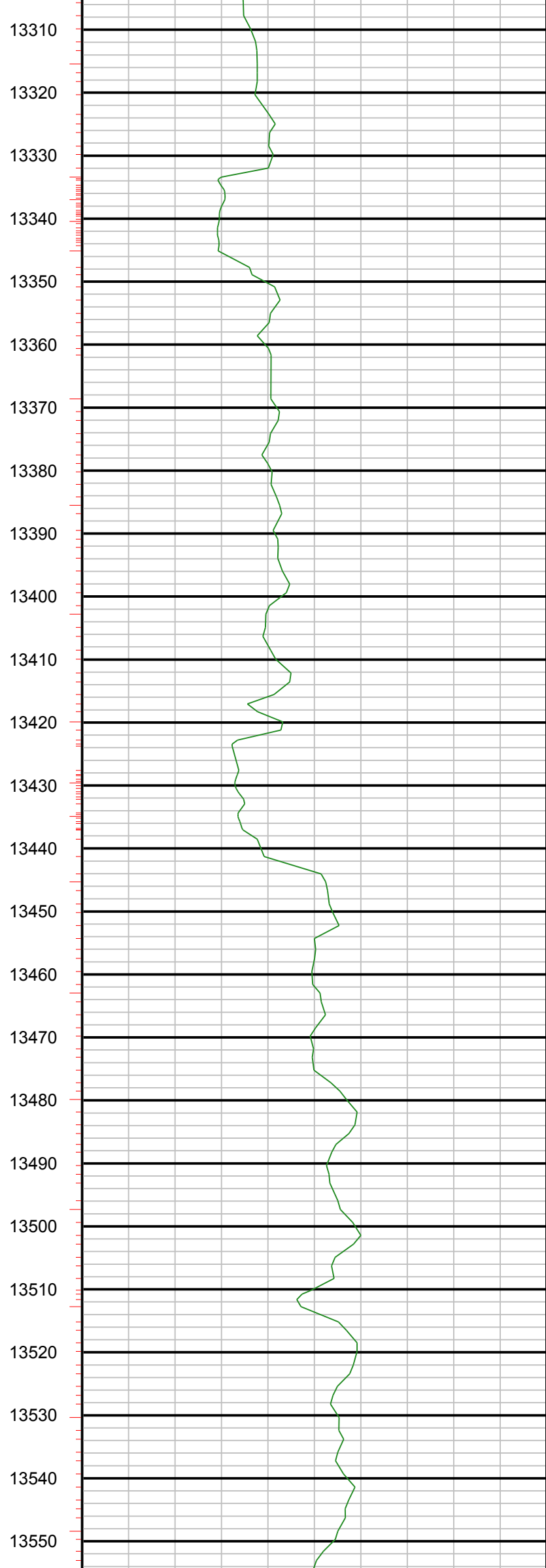
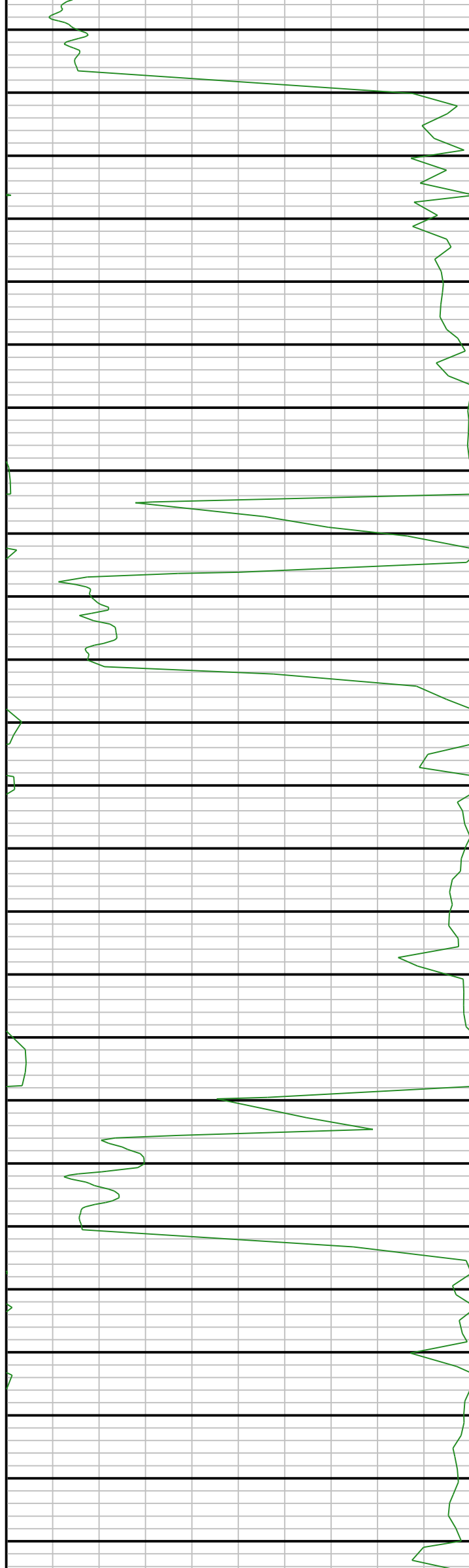


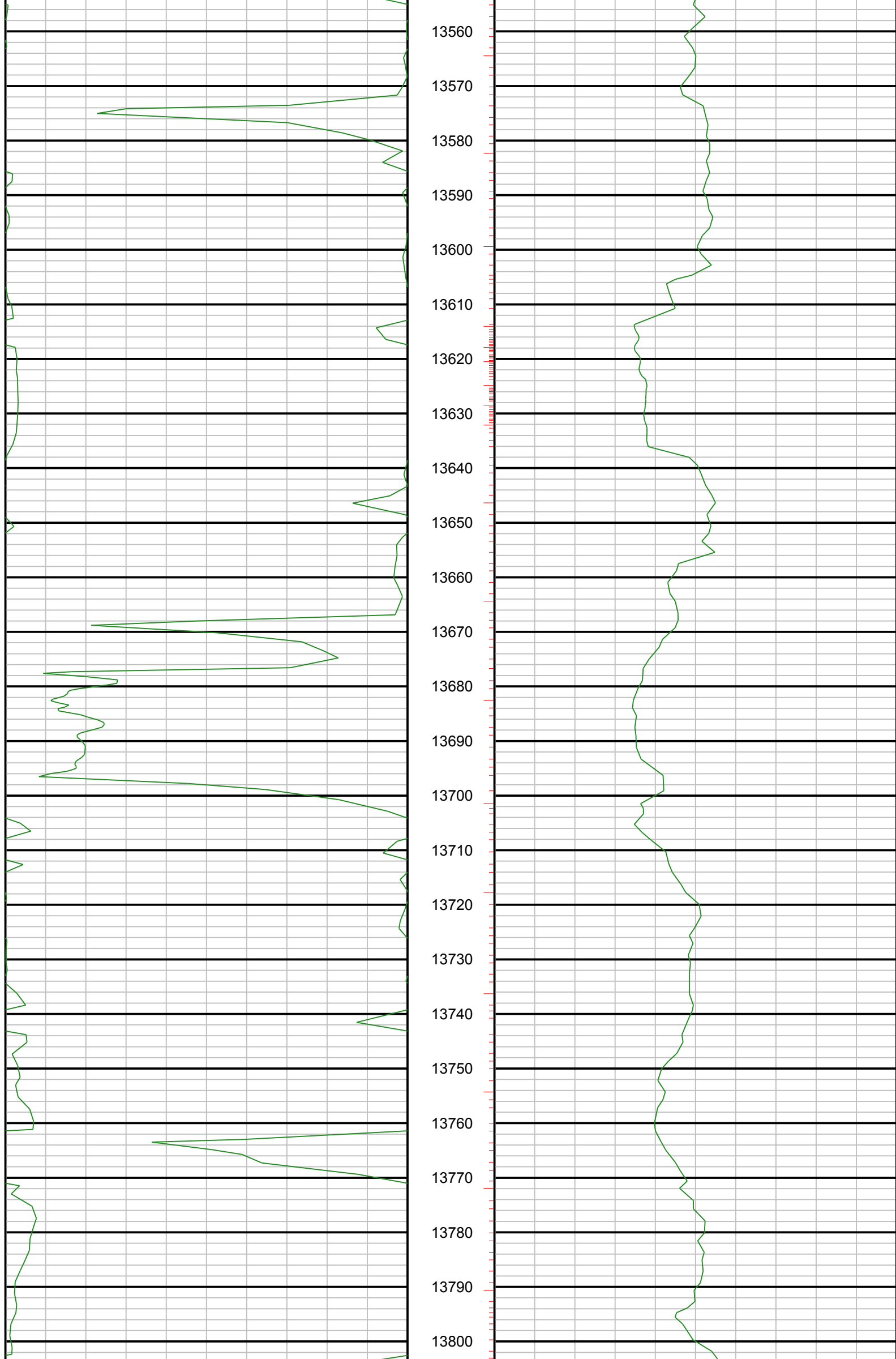


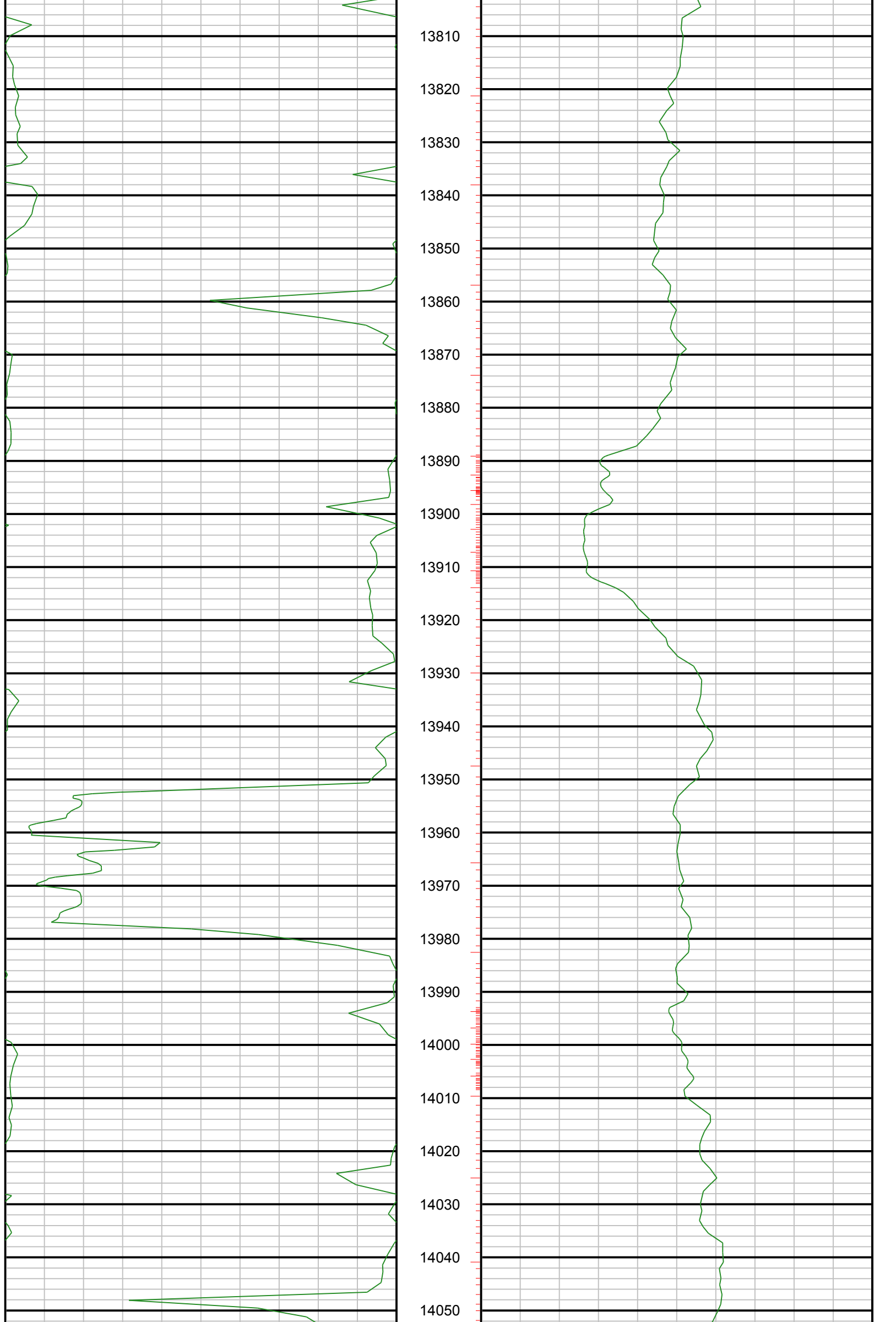


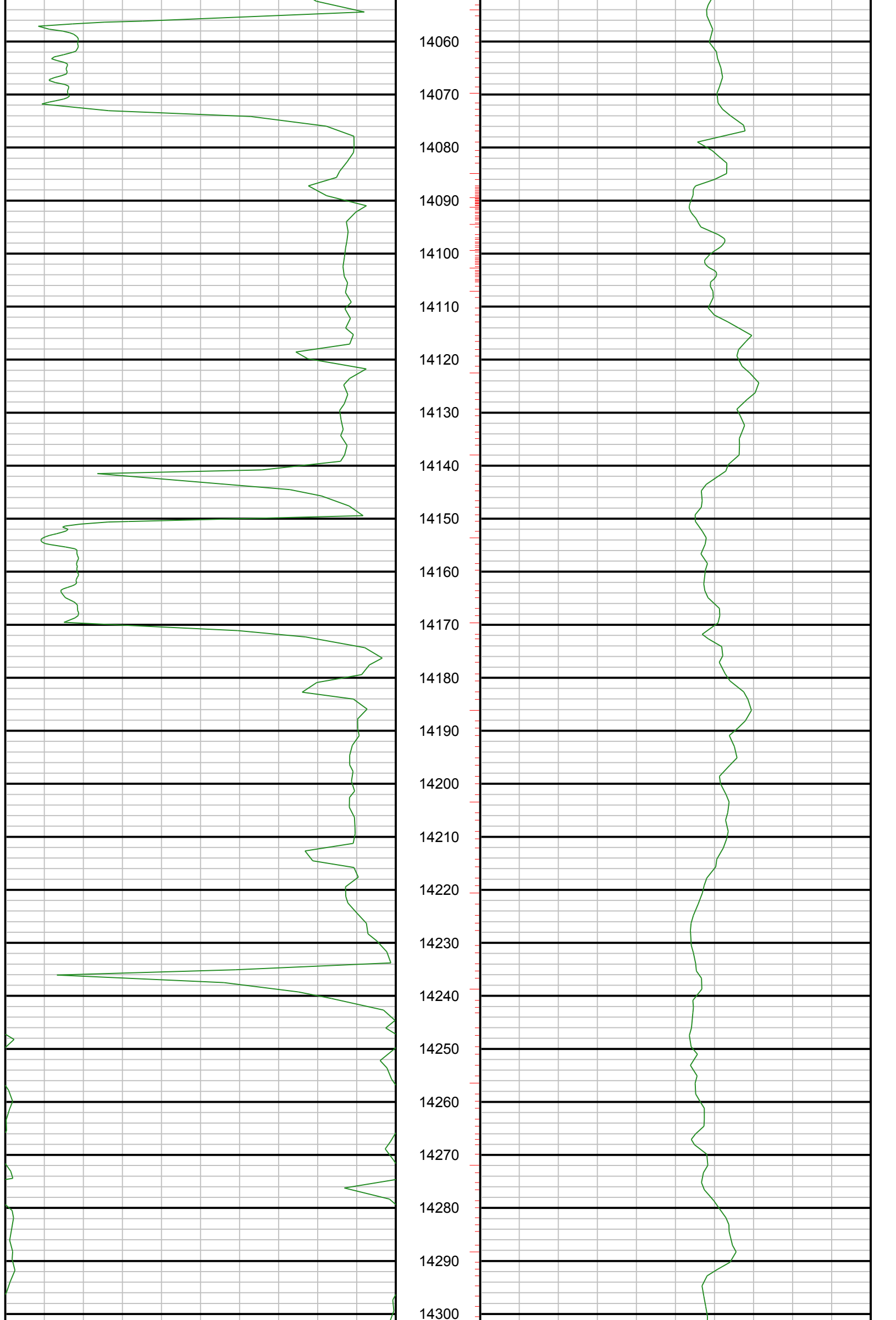


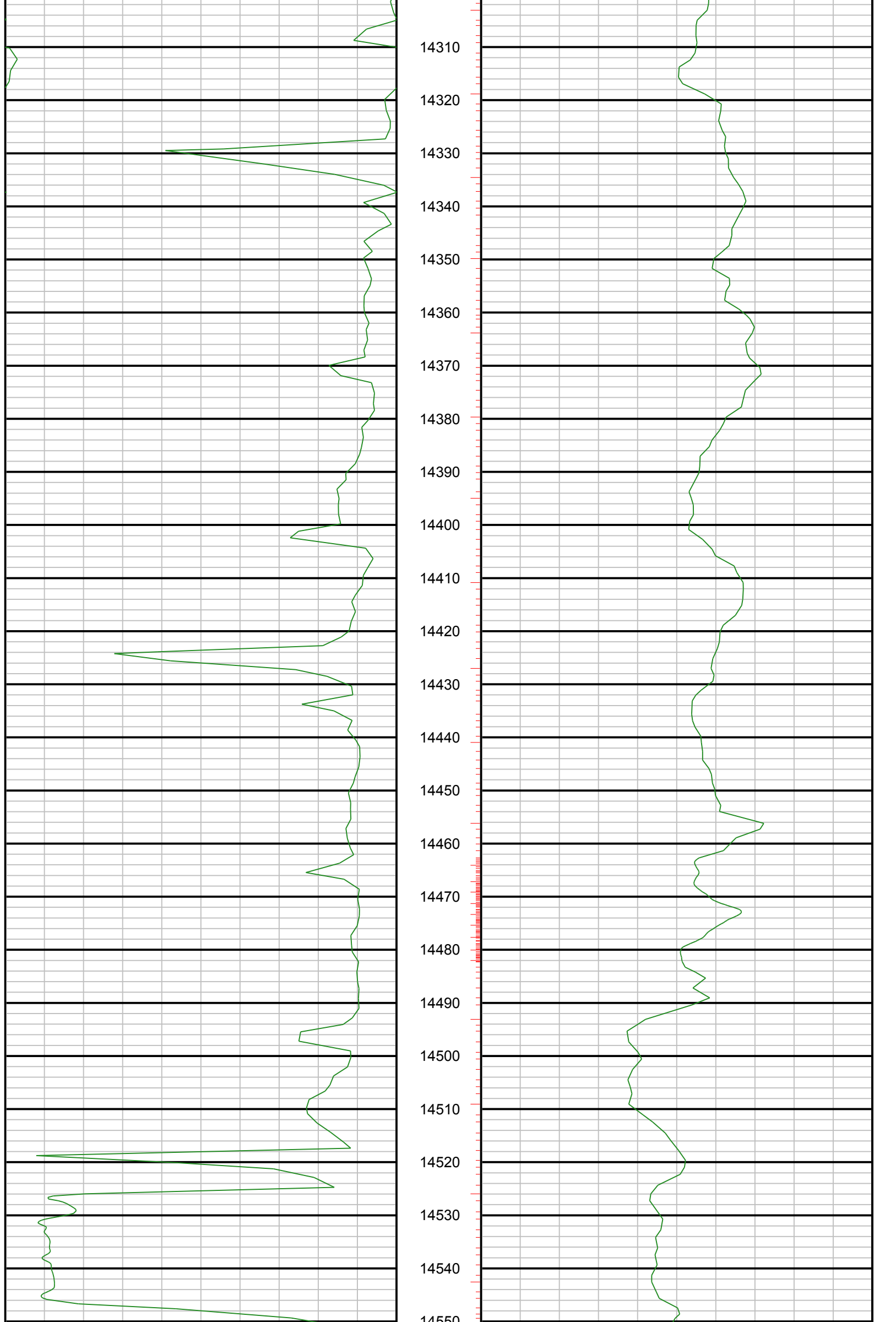


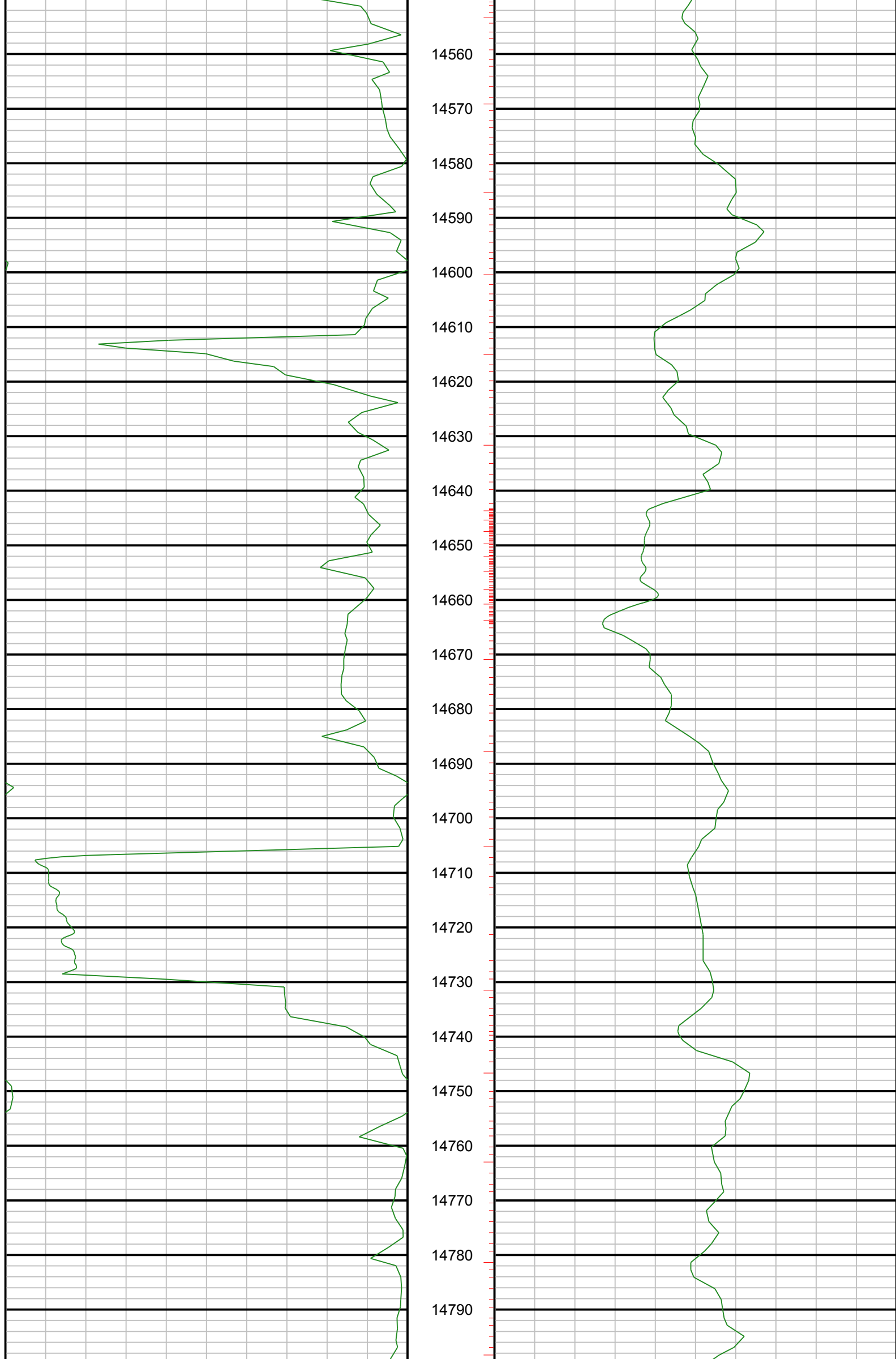


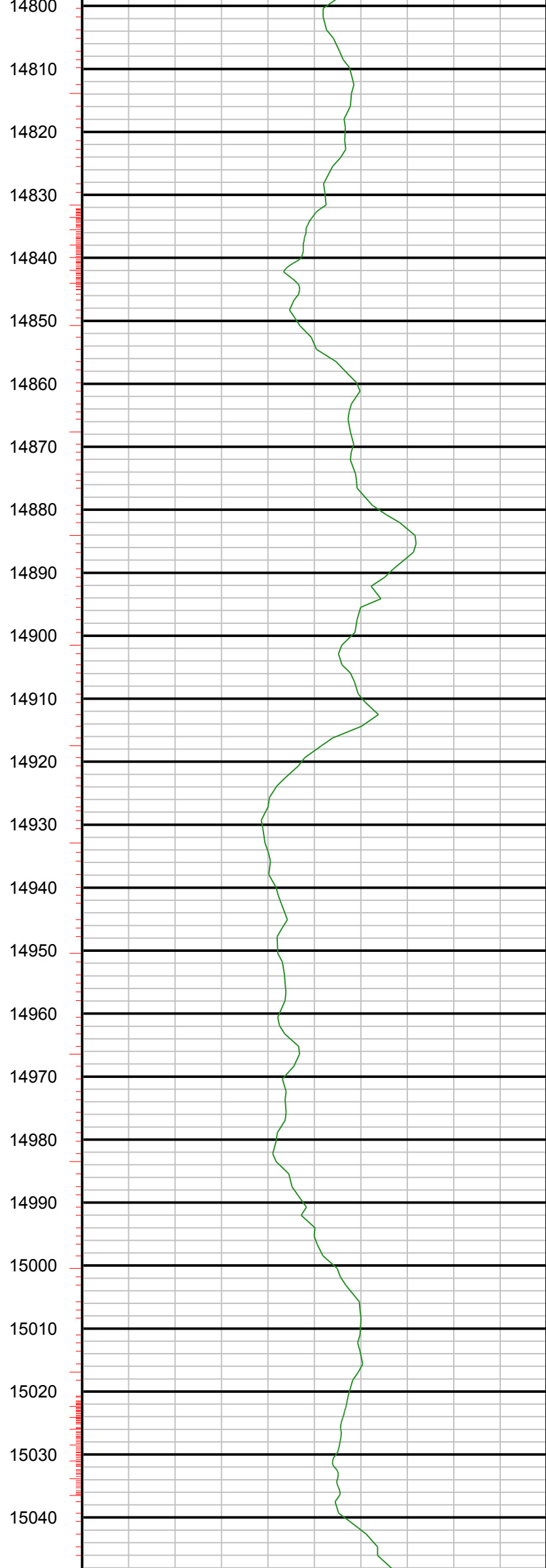
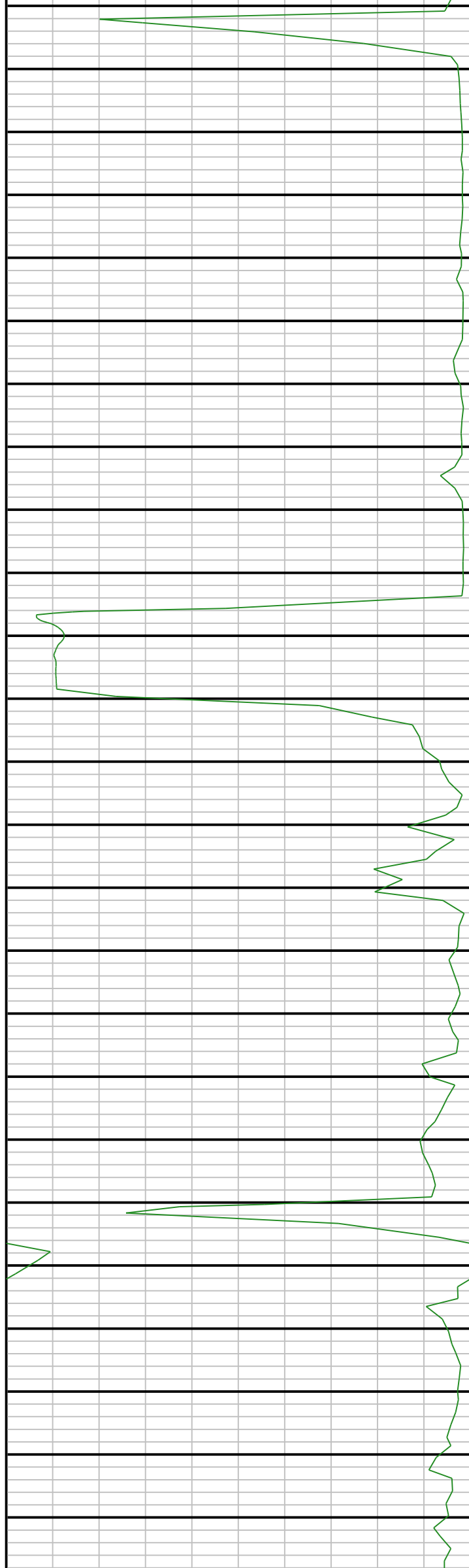






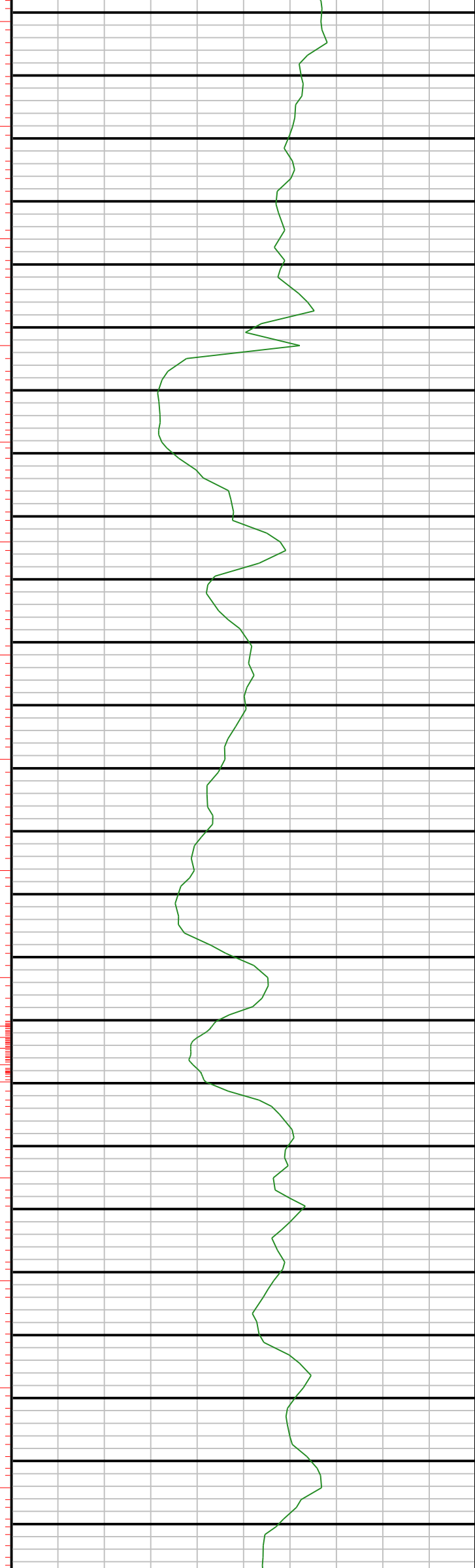


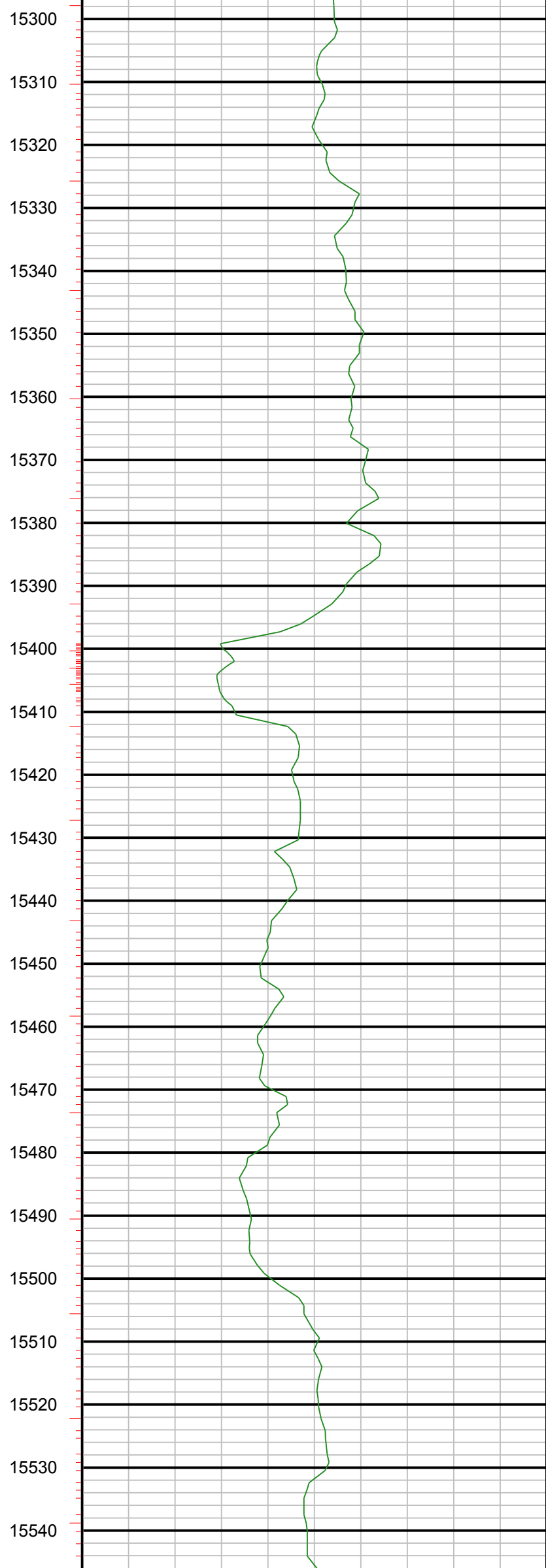
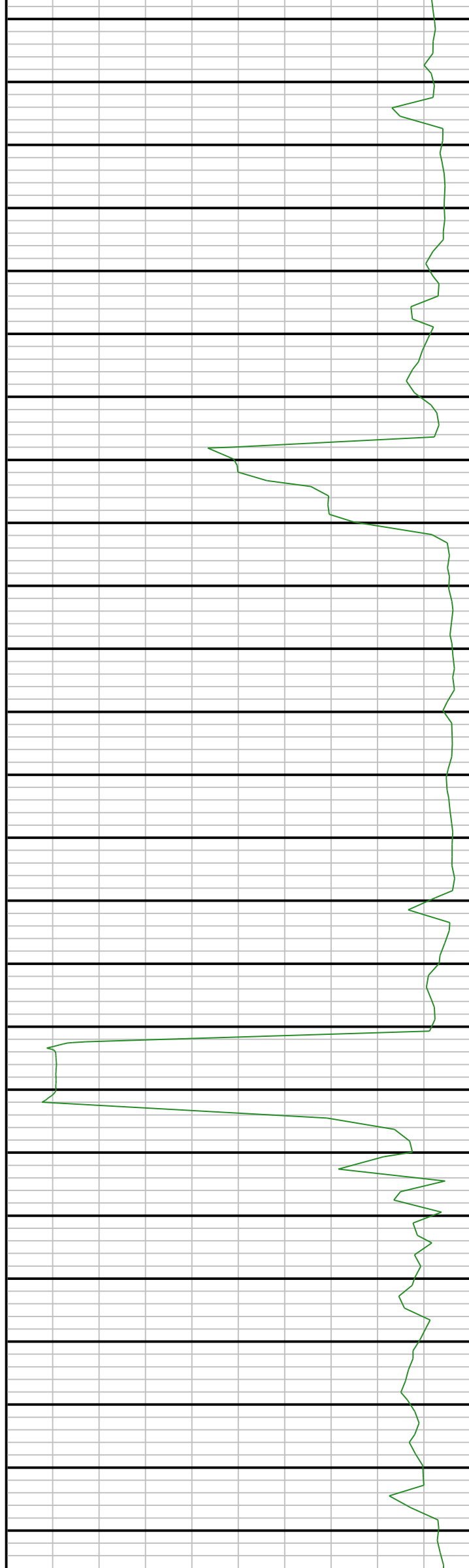


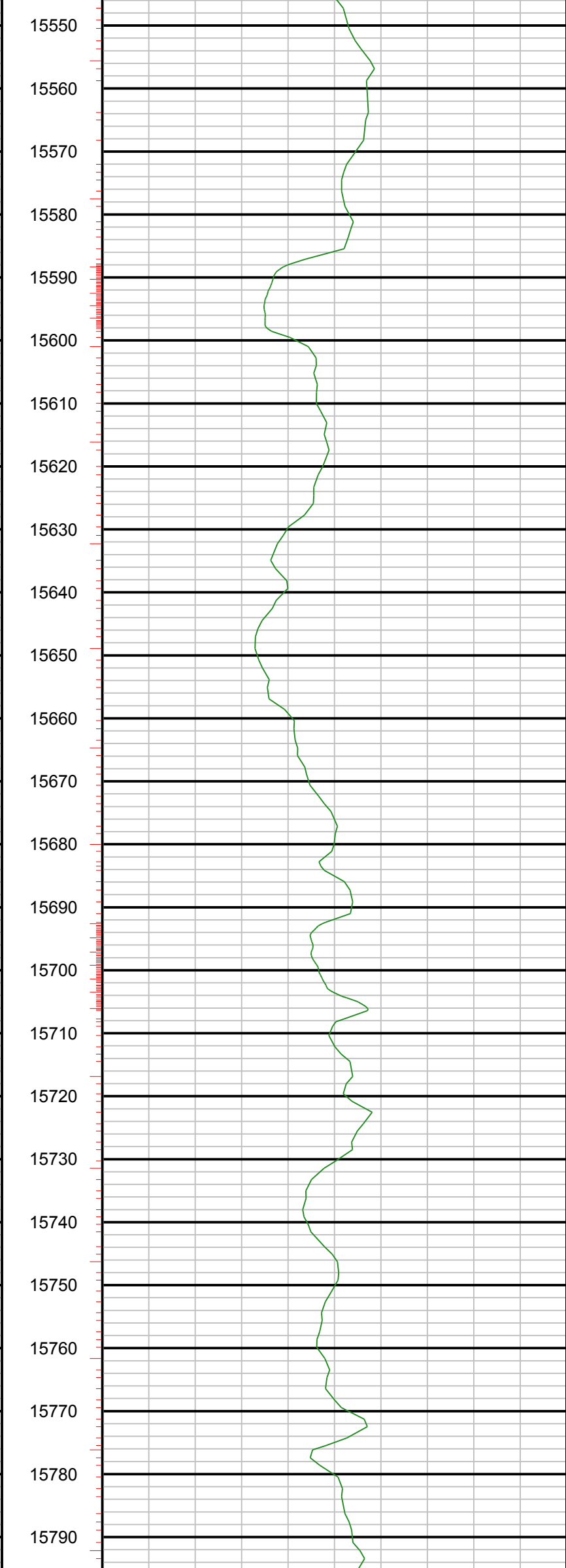
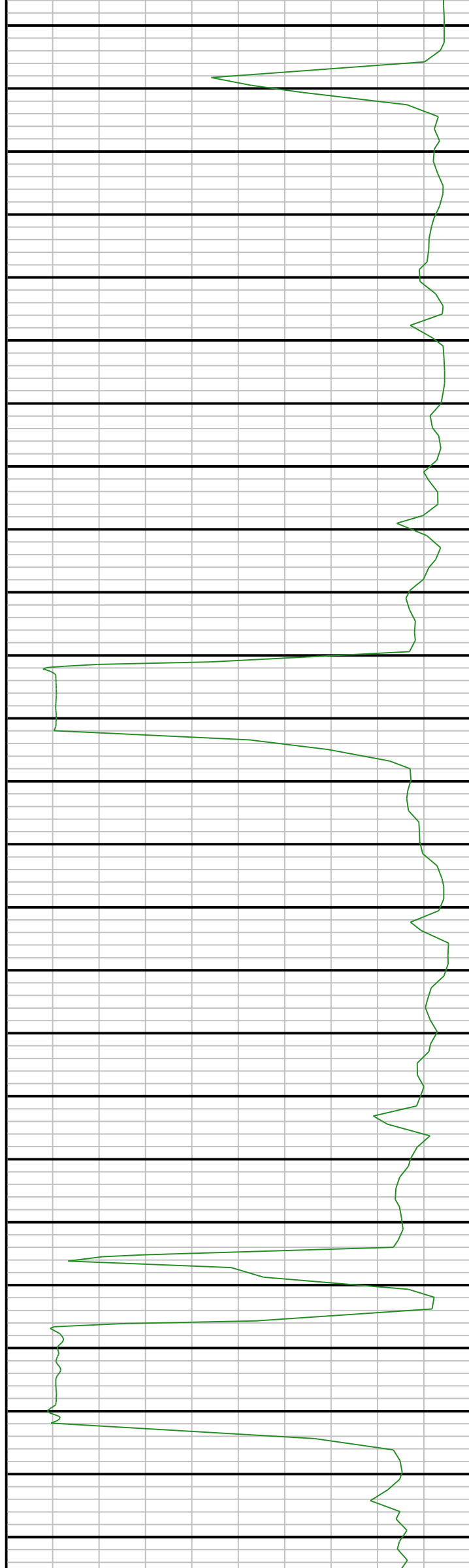


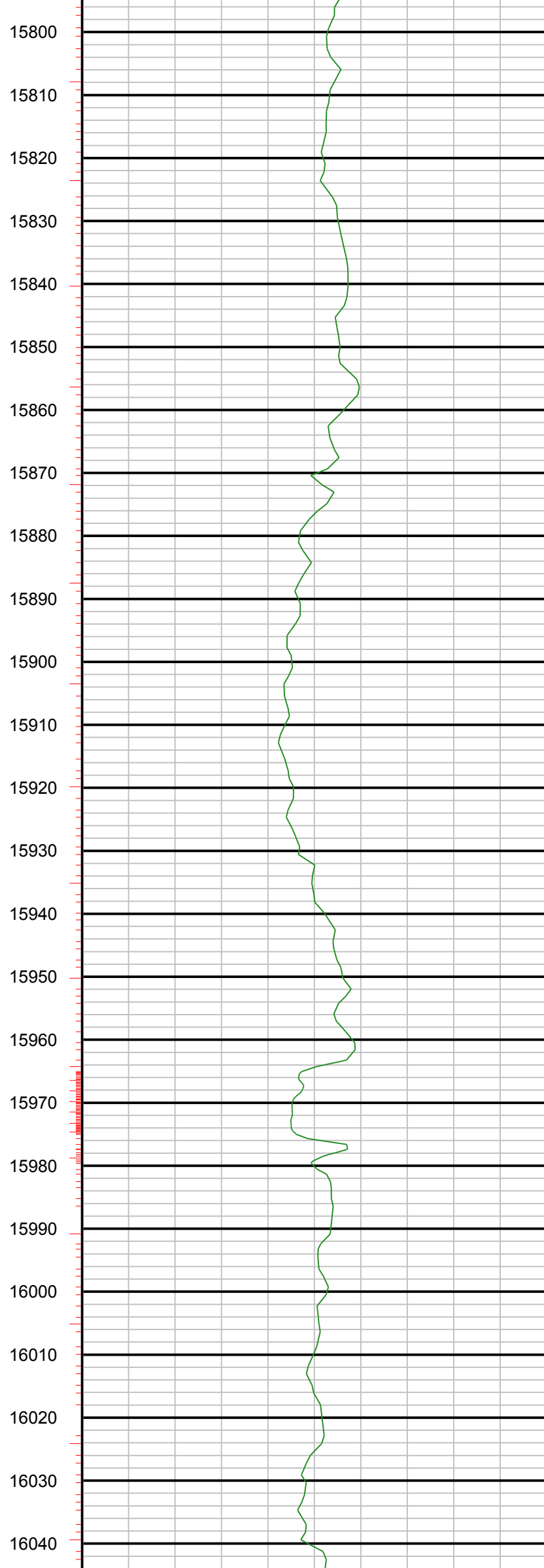
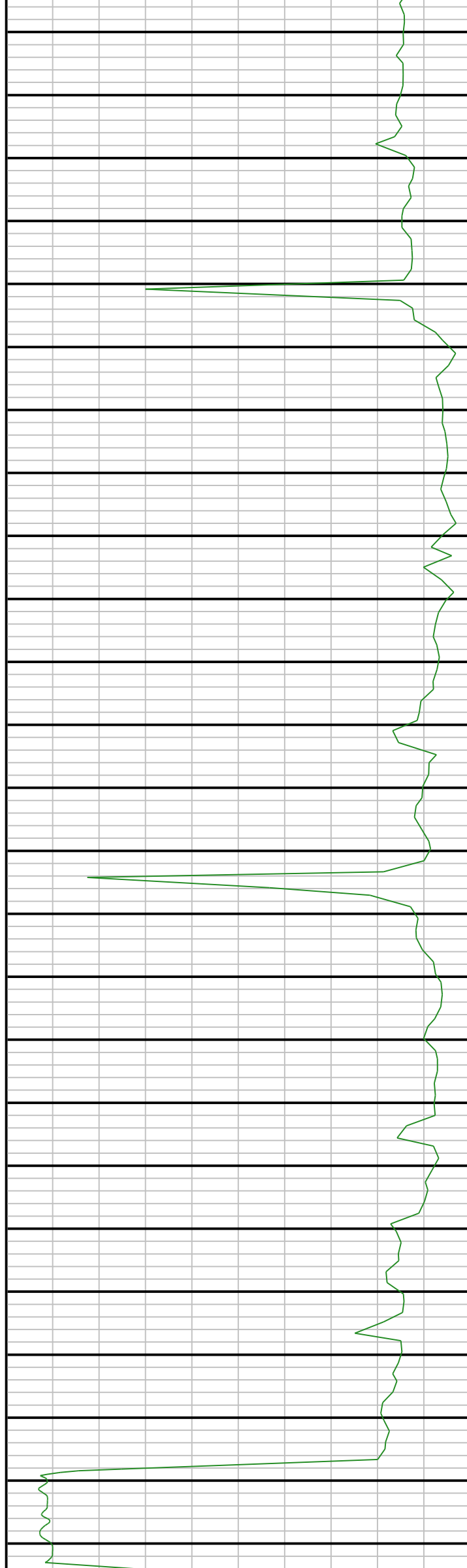


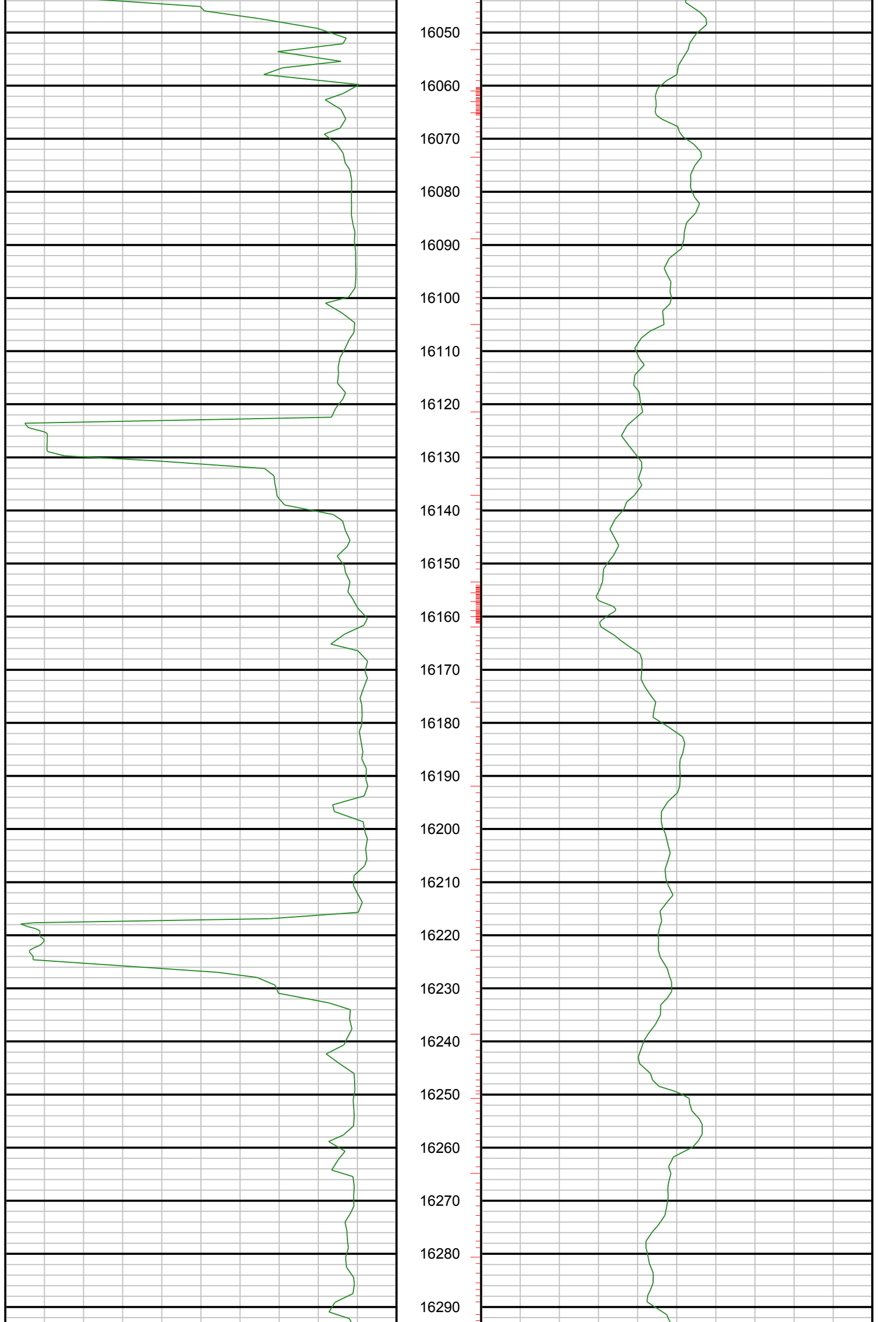
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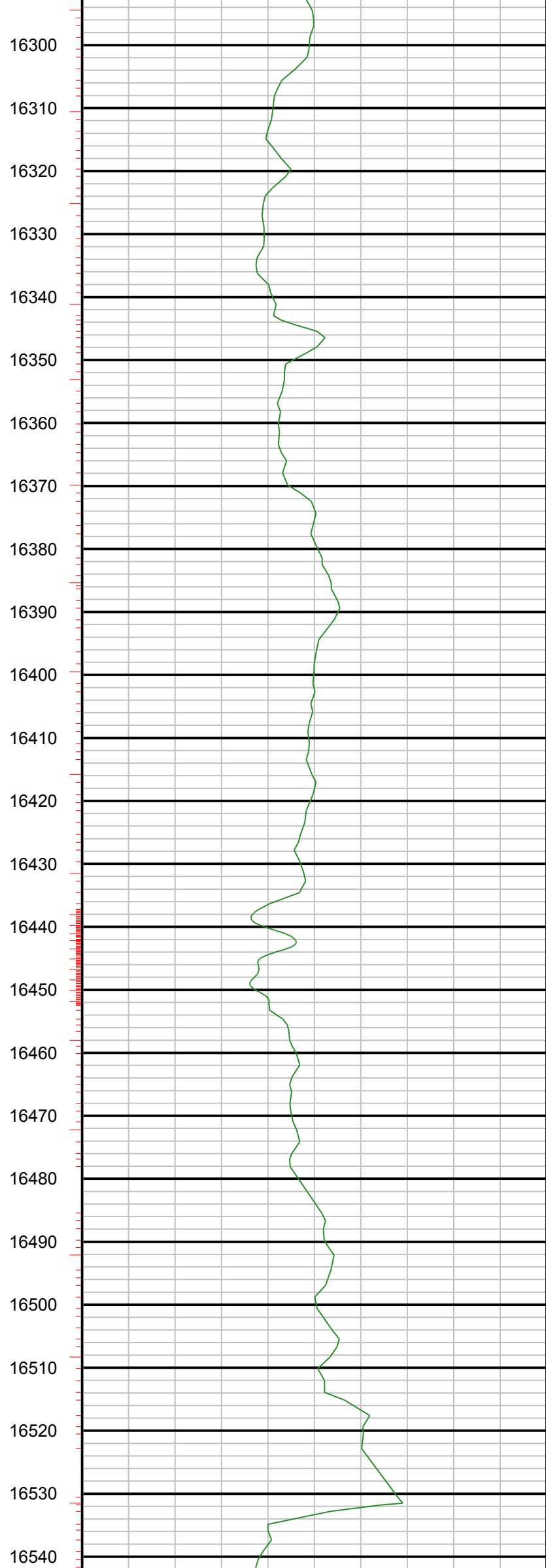
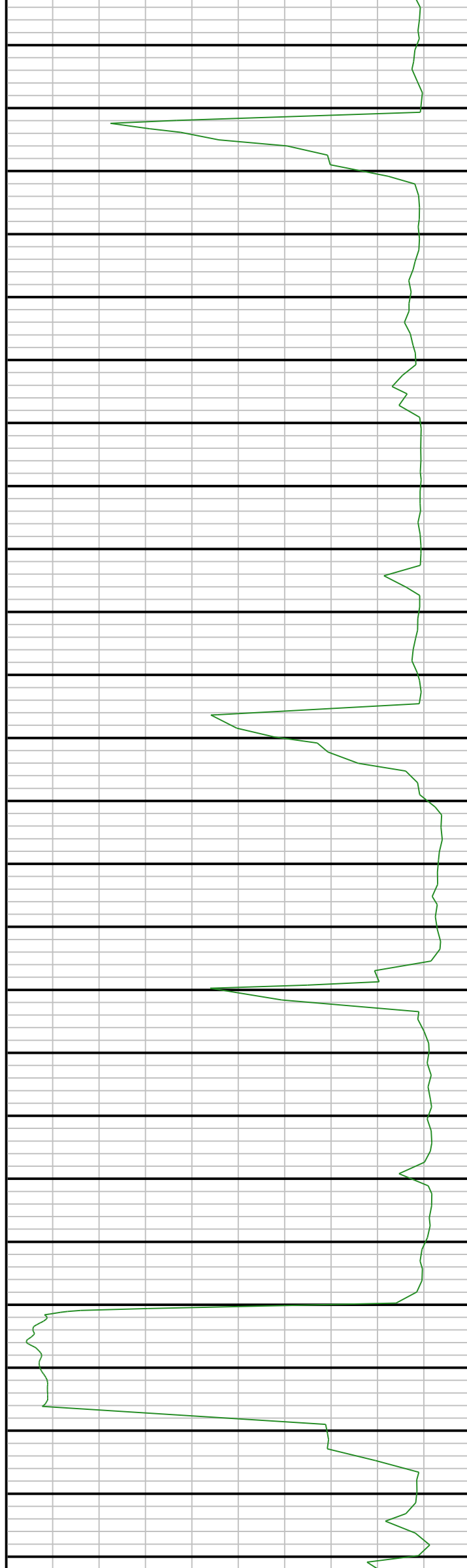


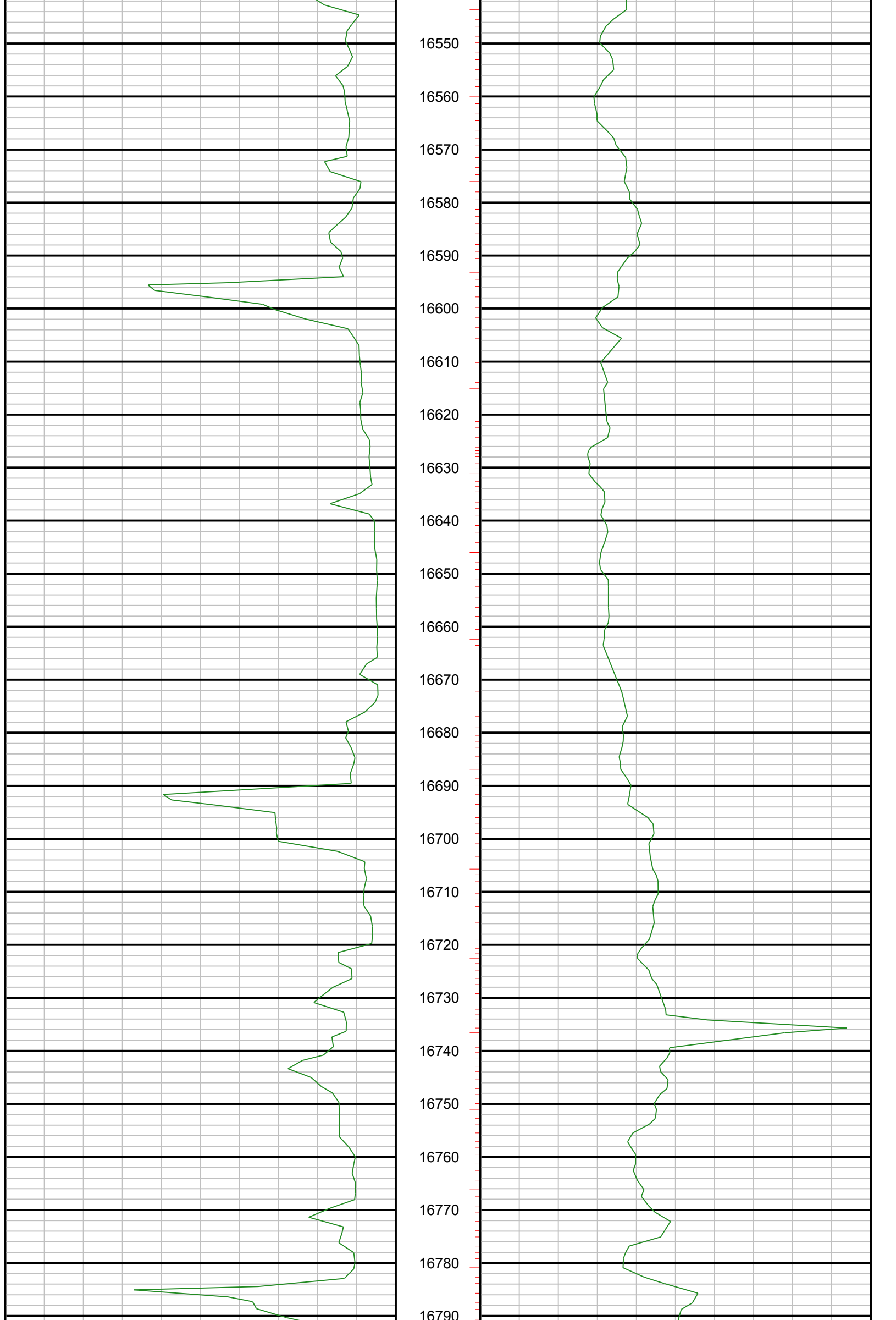


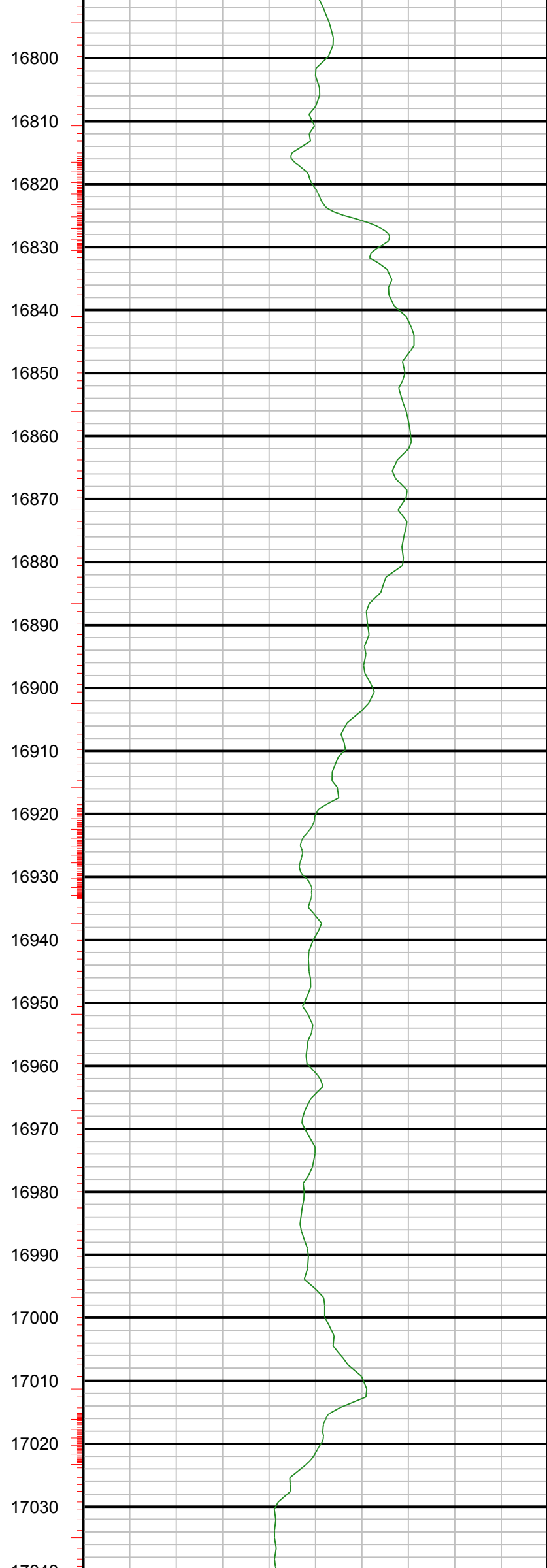
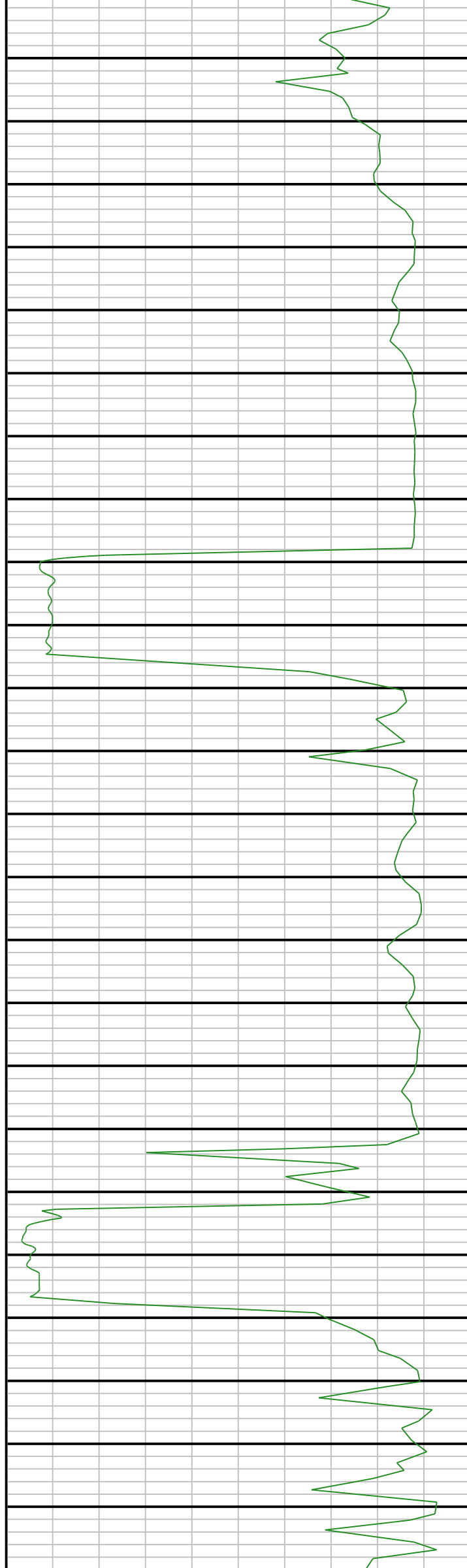


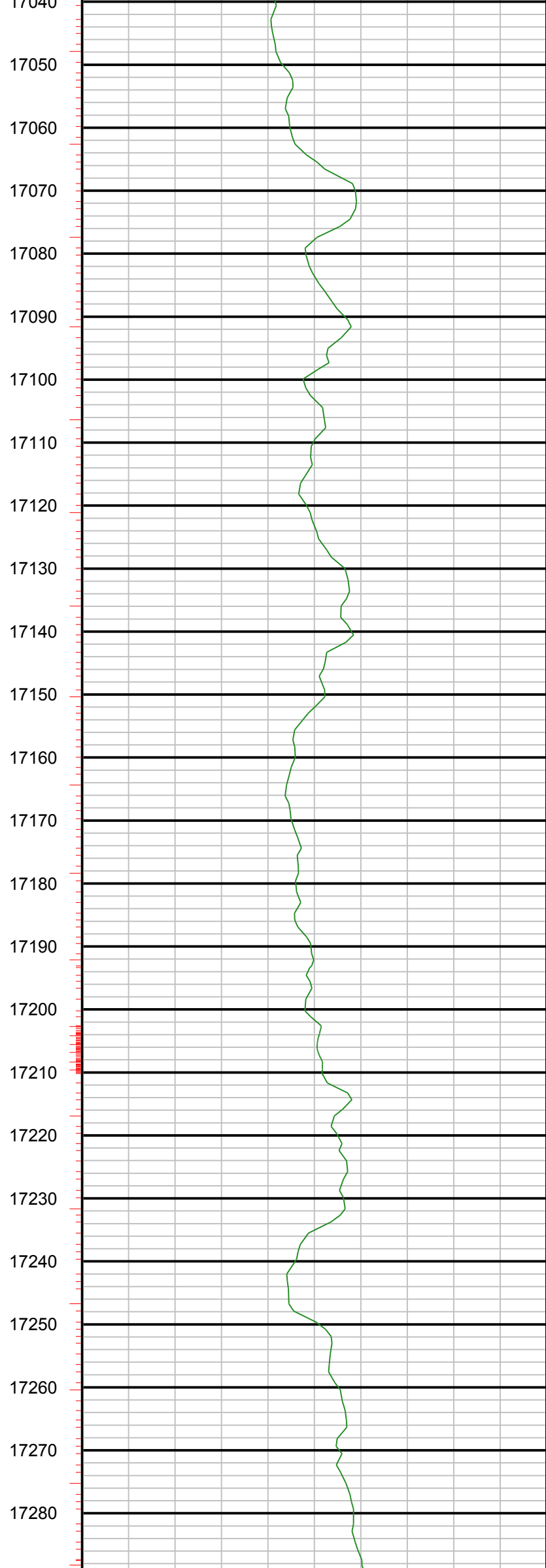
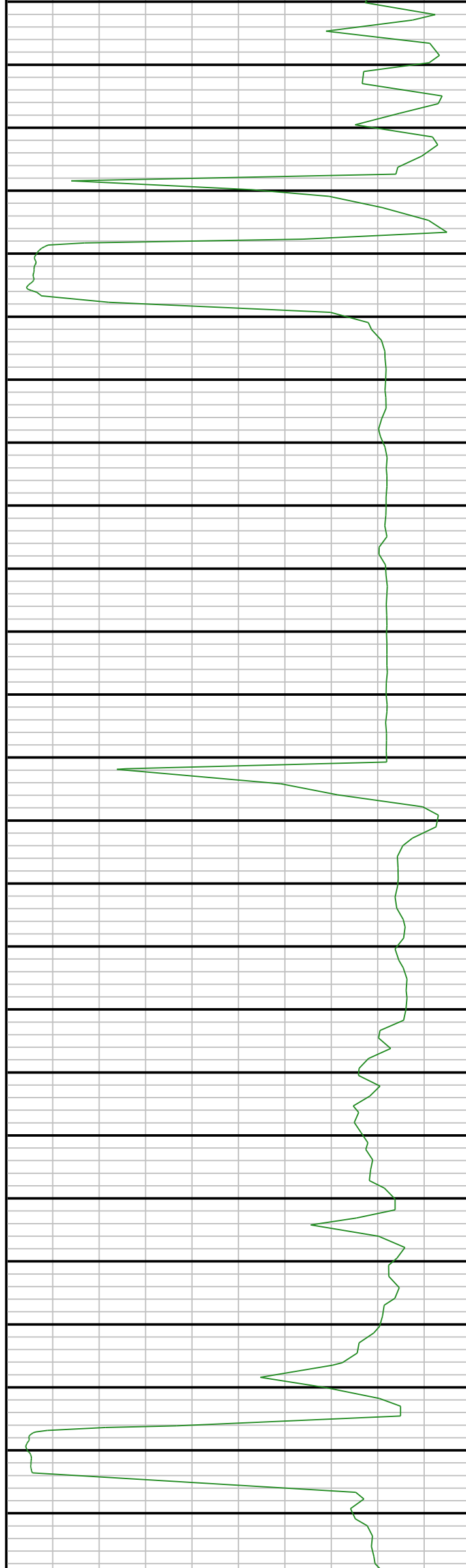


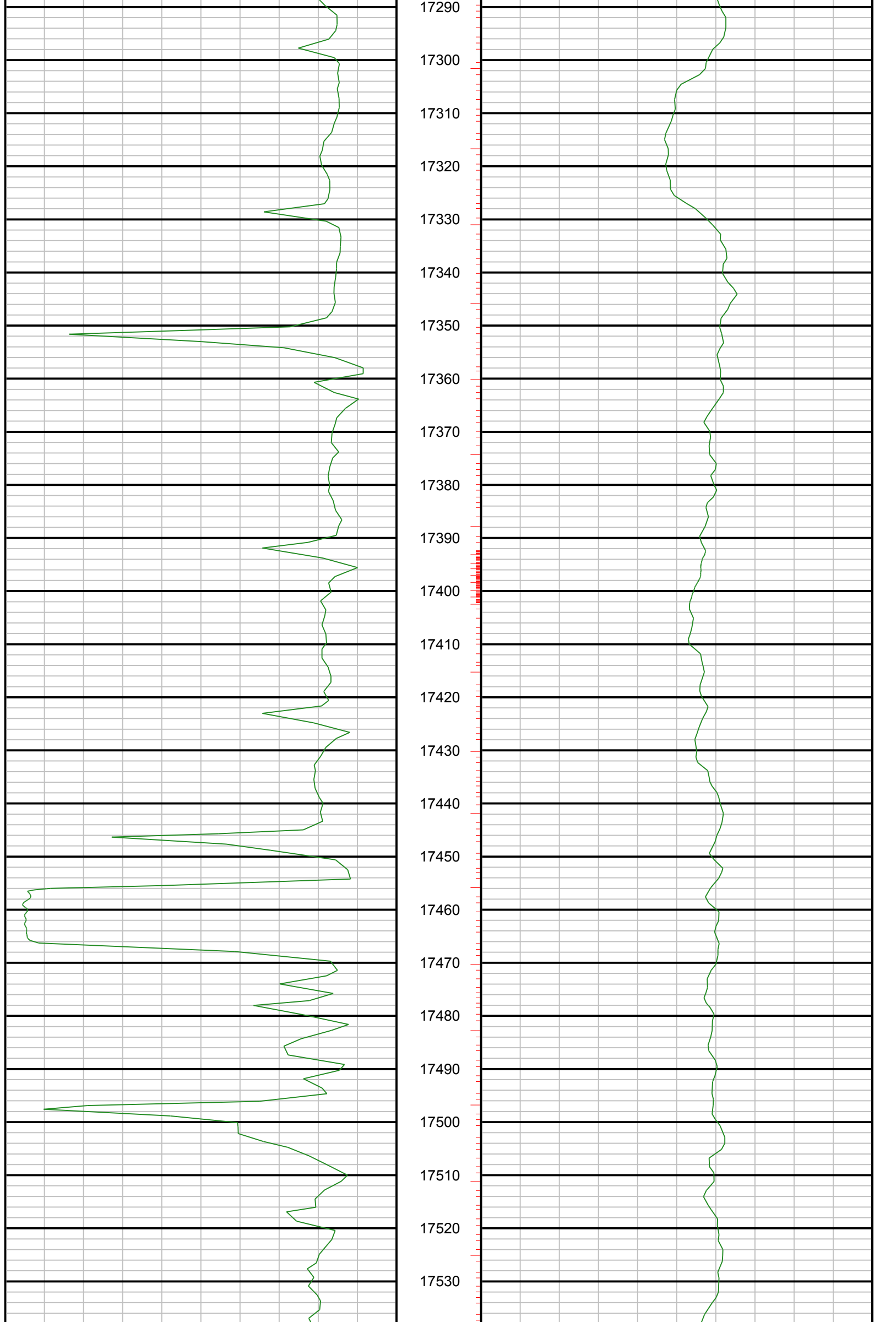


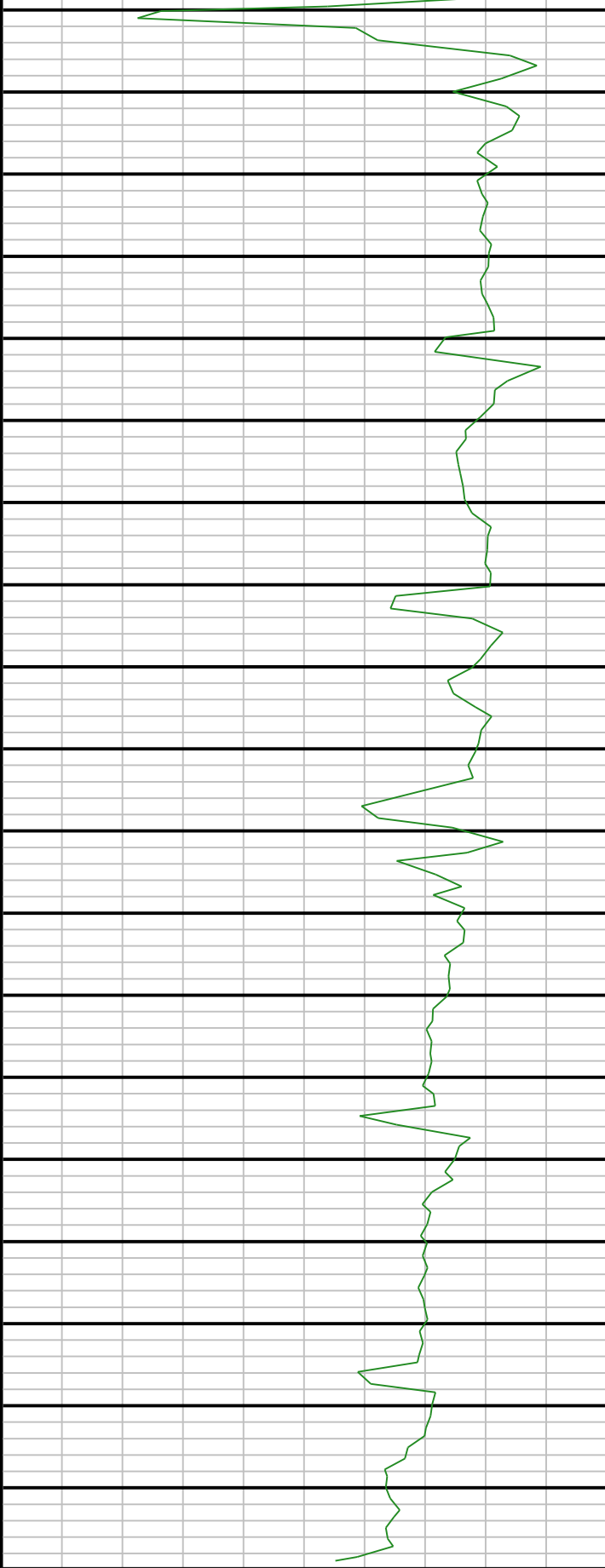




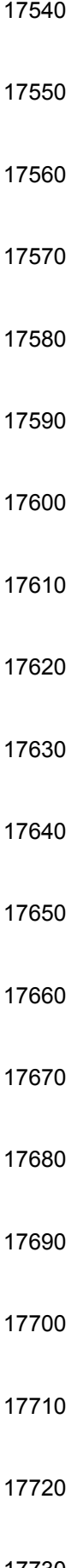








| ROP | | ROP |
|-----|-------|------|
| 0 | ft/hr | 500 |
| ROP | | ROP |
| 500 | ft/hr | 1000 |



| Gamma | | Gama |
|-------|------|------|
| 0 | AAP1 | 300 |
| Gamma | | Gama |
| 300 | AAP1 | 600 |