



Cathedral Energy Services
1949 North Pyrite Road
Casper, Wyoming 82604

15566

5":100' - MD

5/11/2015 3:59:29 AM

Oper. Company: Whiting Petroleum

Country: U.S.A

State / Province: Colorado

County / Parish:

Started: 03/30/2014 12:00 AM

API/UWI:

Field: DJ Basin

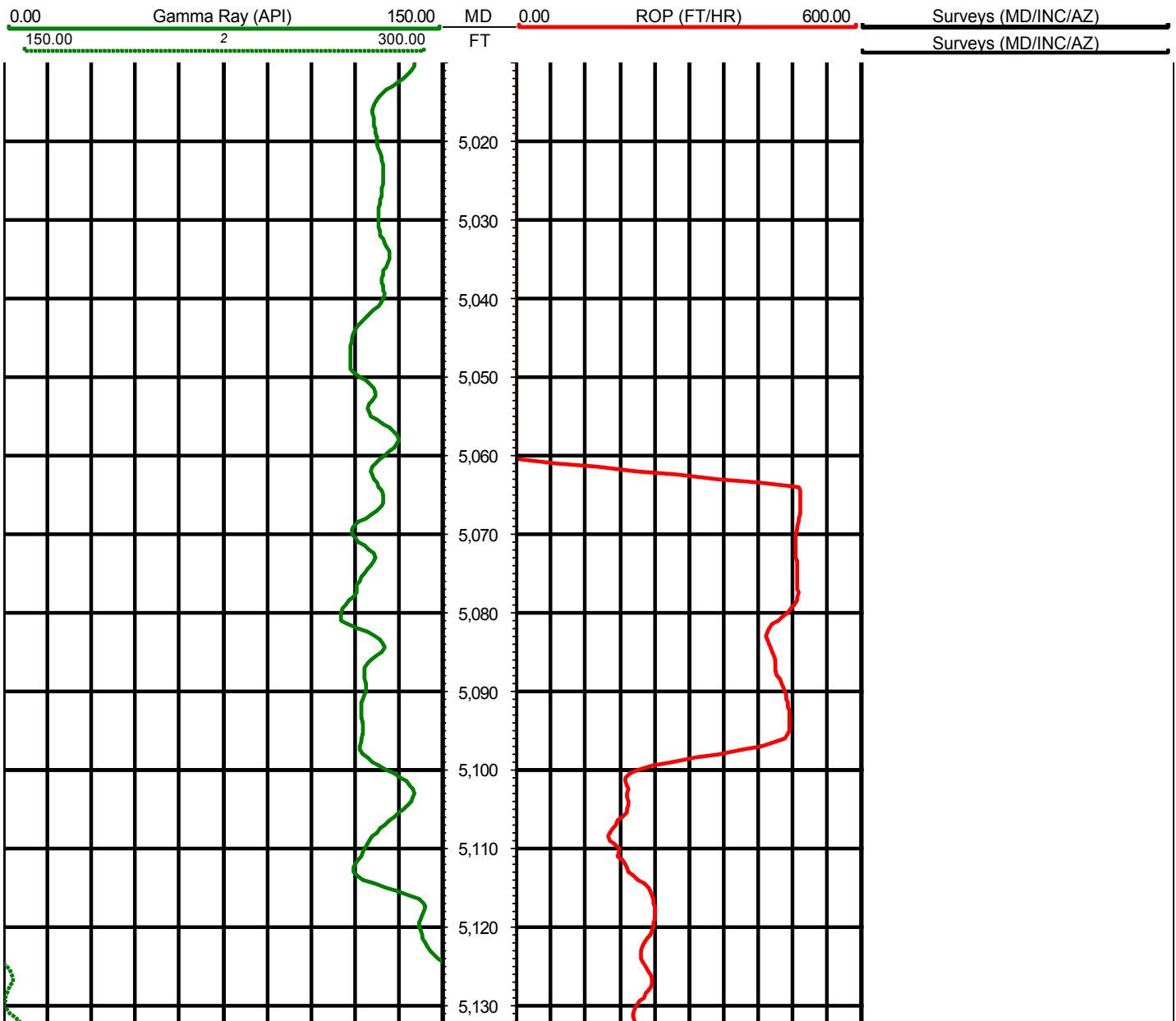
Well: Horsetail 08D-1703

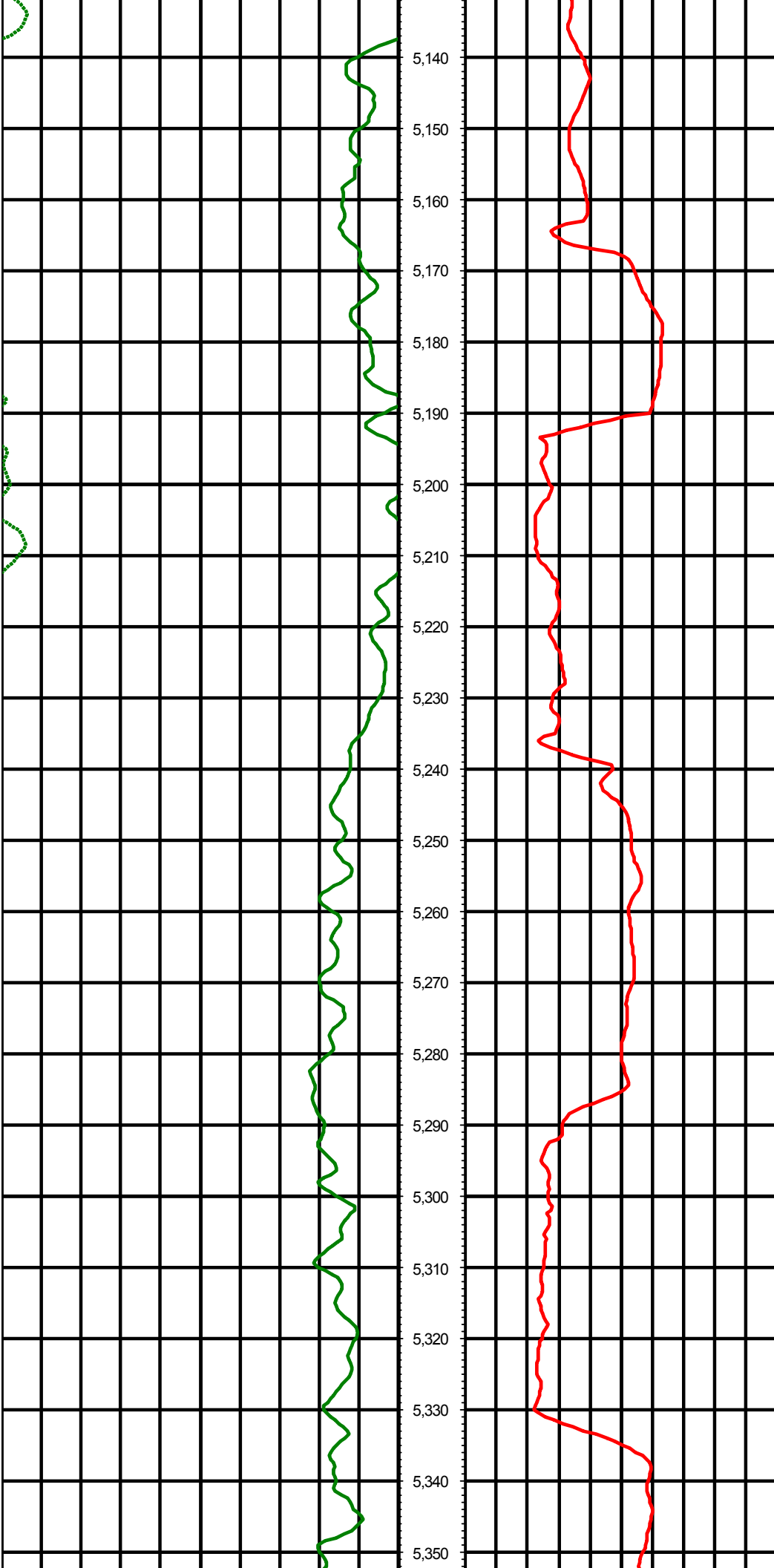
Rig: Unit 406

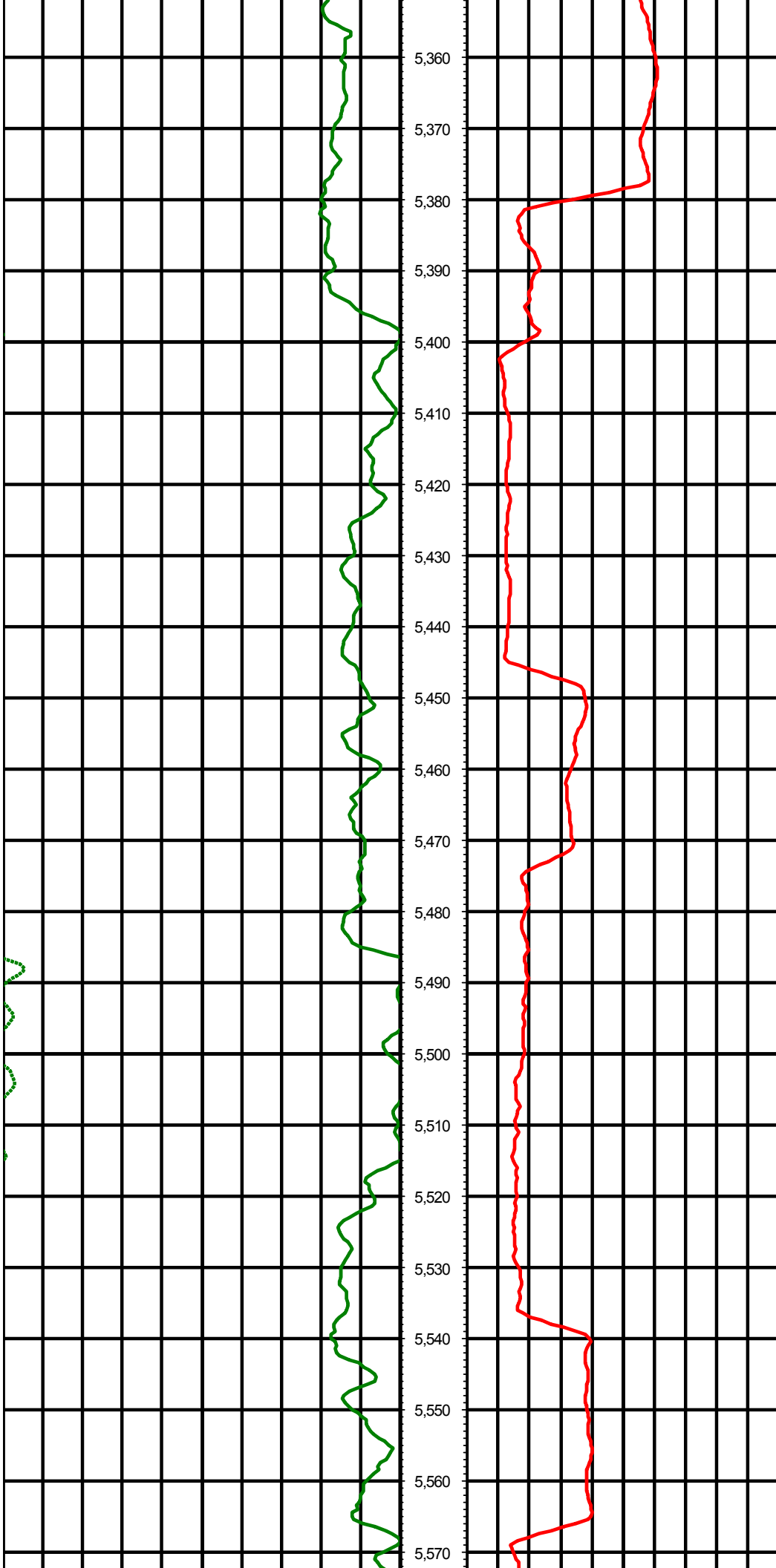
Ended: 04/12/2014 12:00 AM

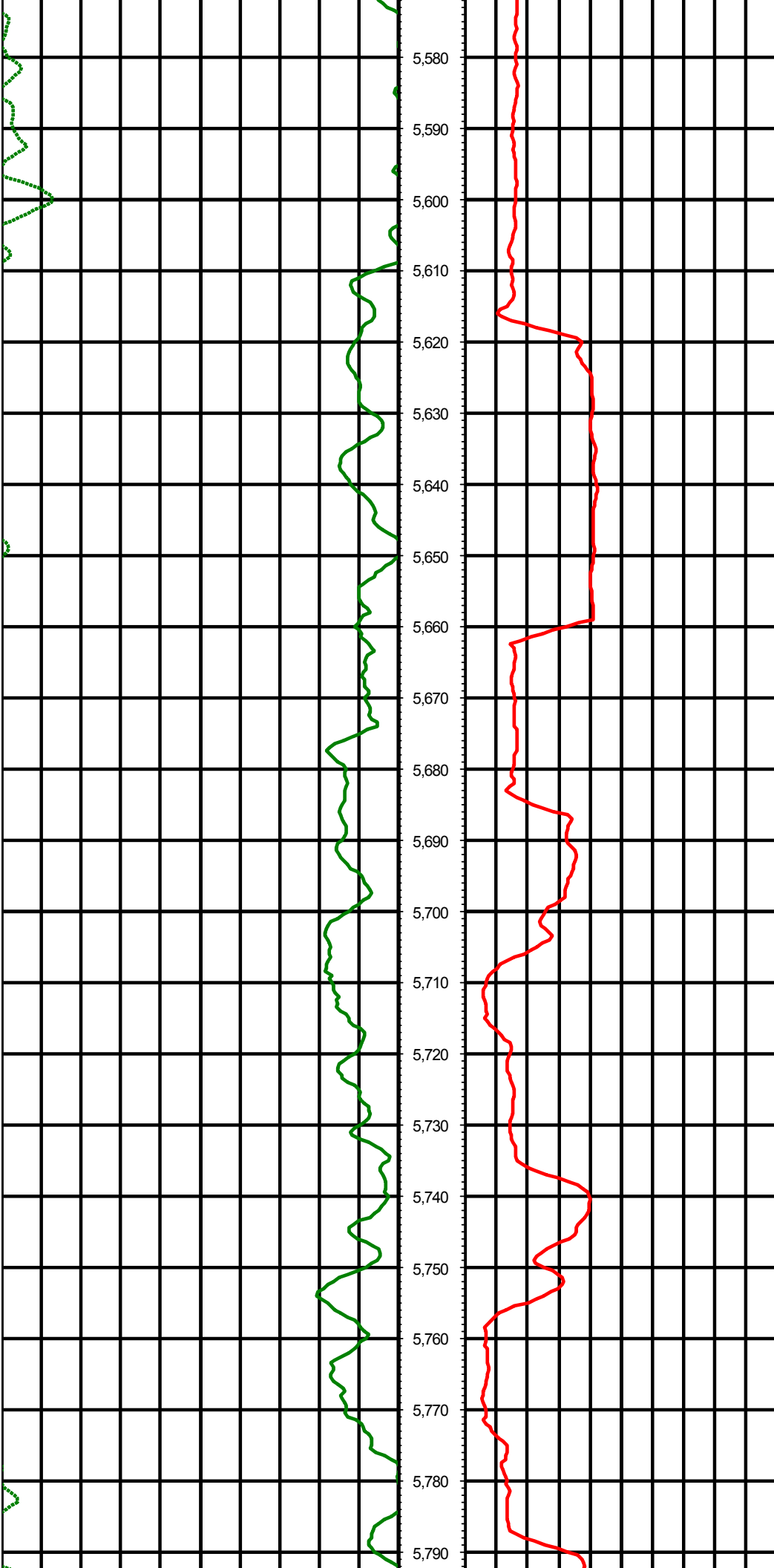
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Section Plane: 0.00
Magnetic North: 7.55
Gamma Attenuation Factor: 1.9
Gamma Averaging

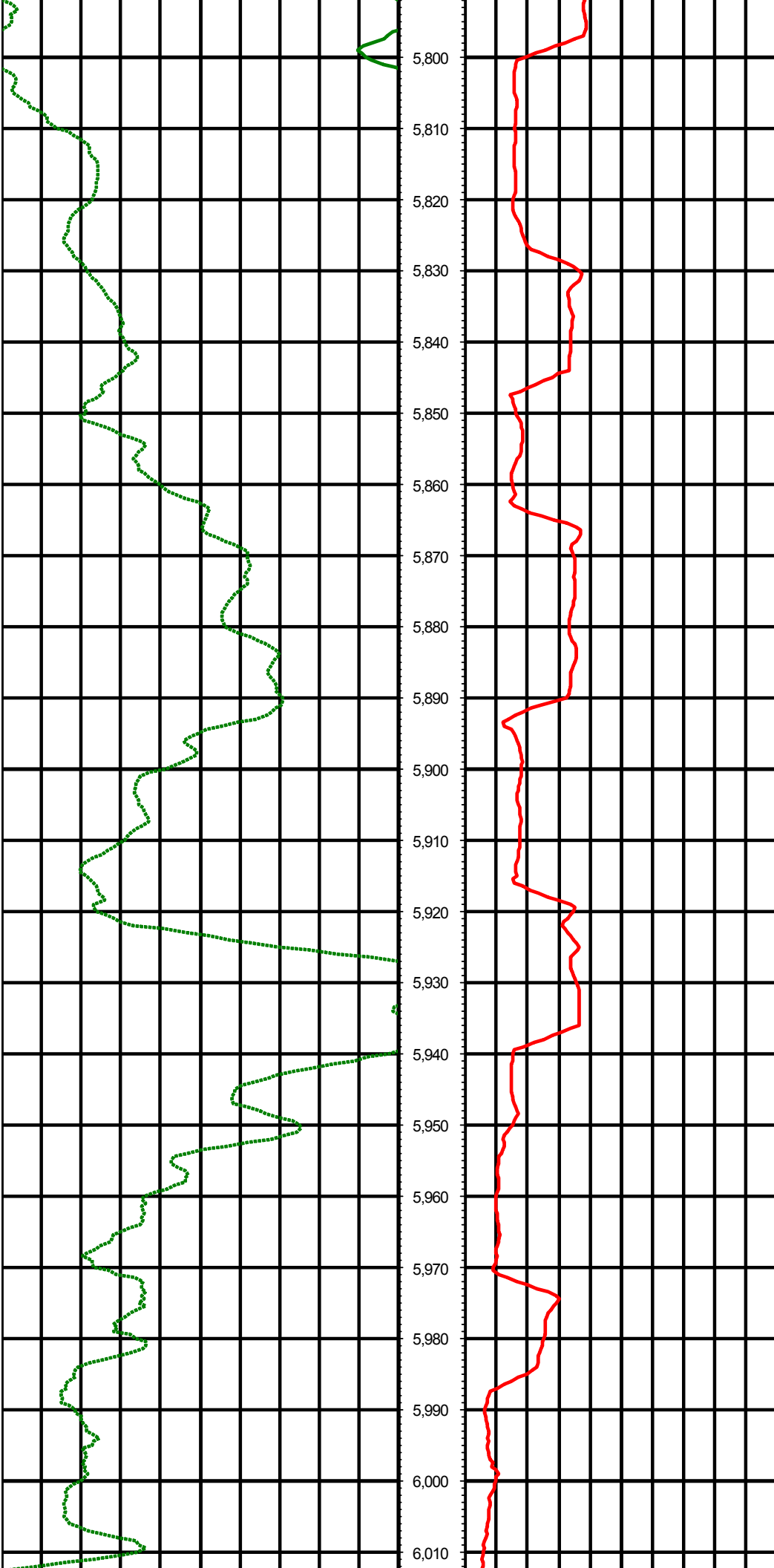
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

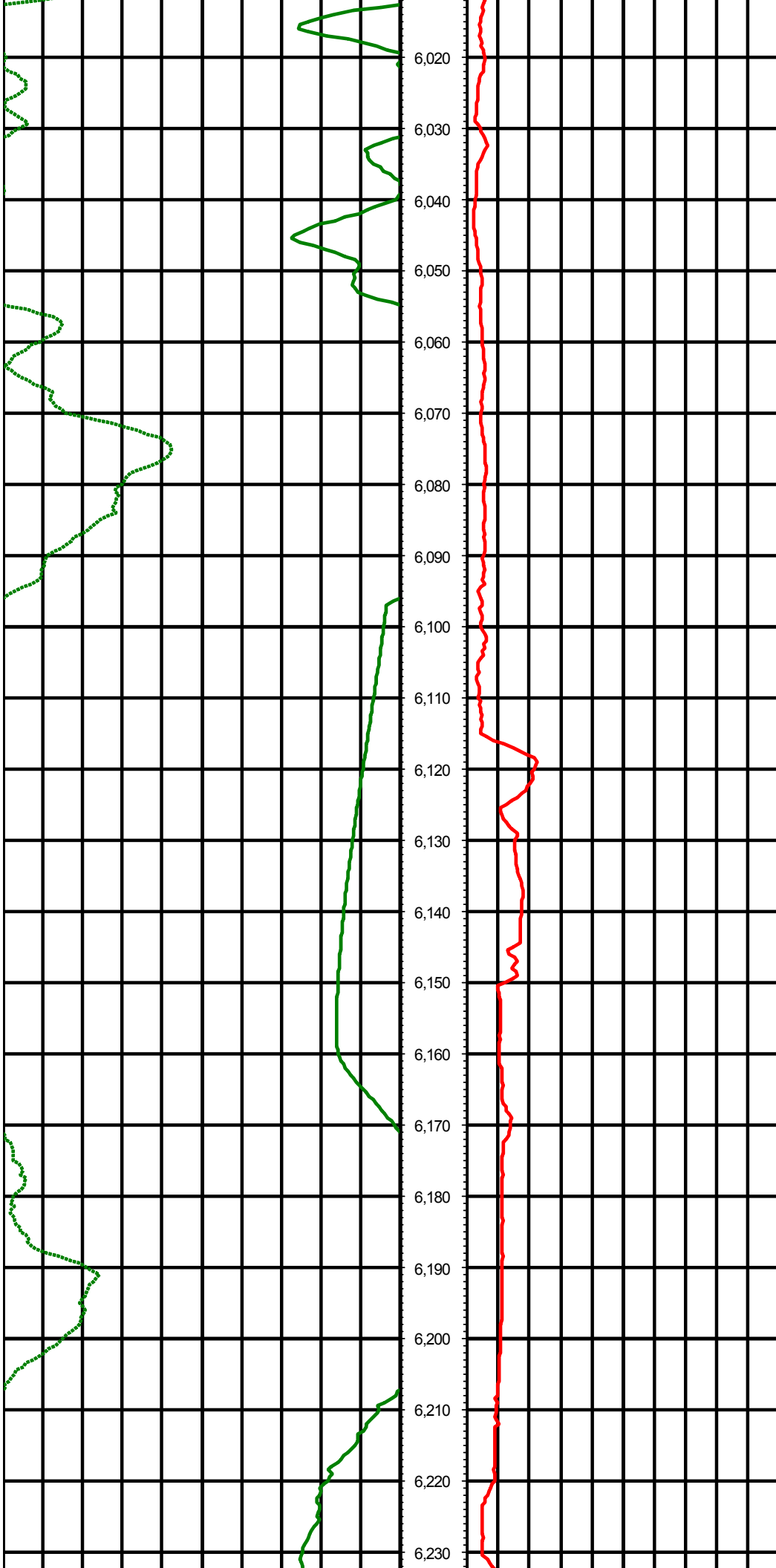


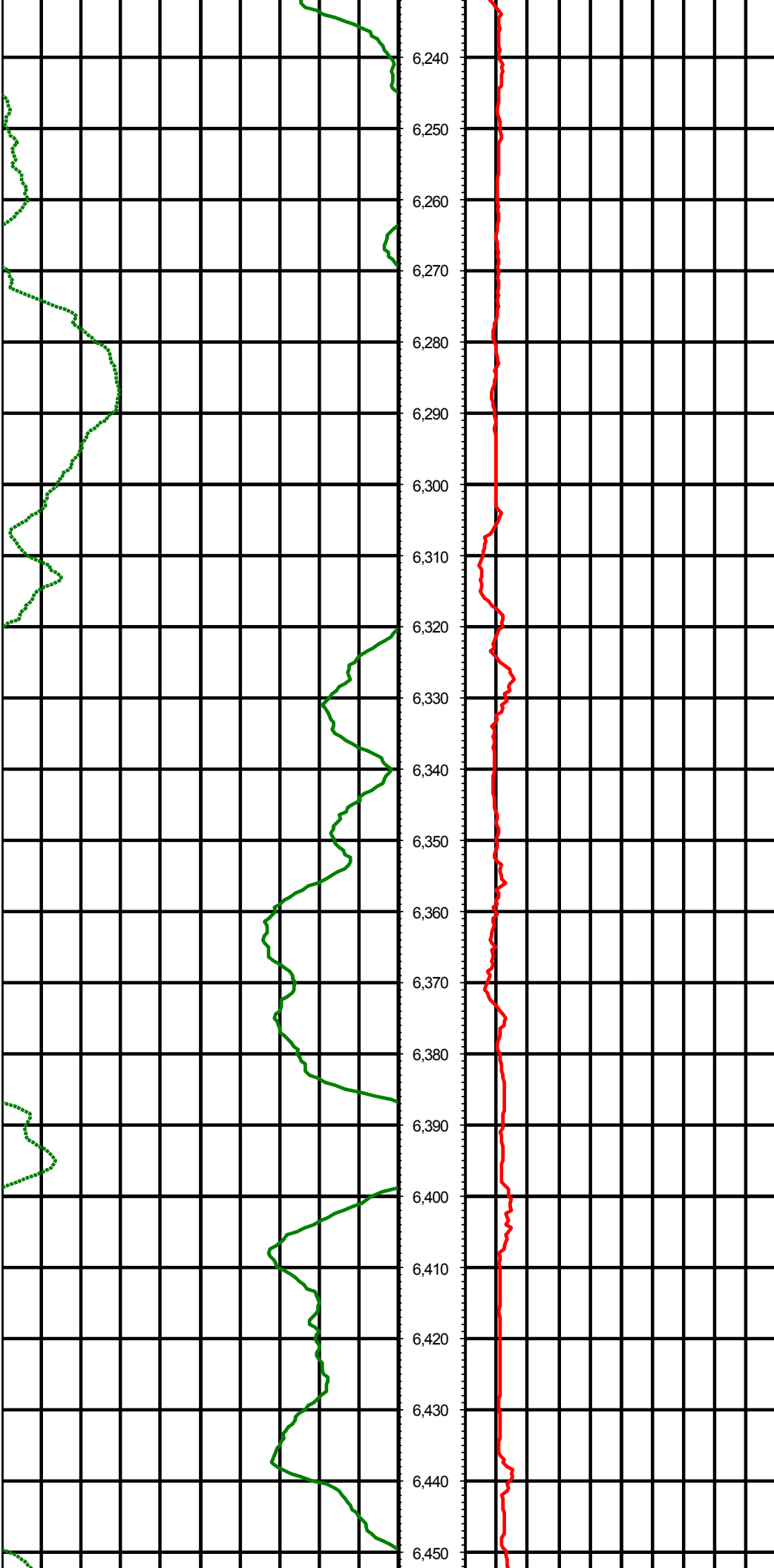


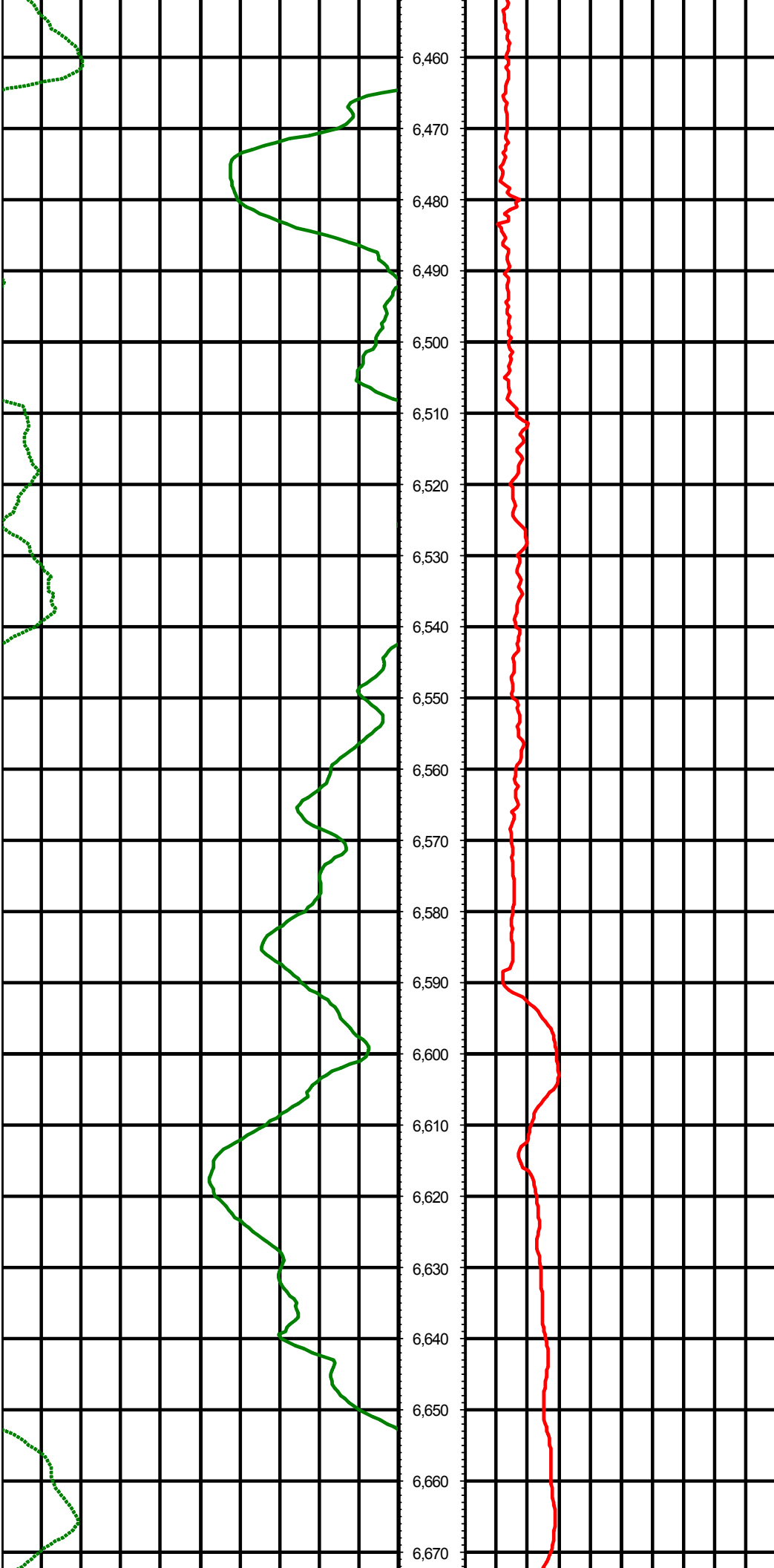


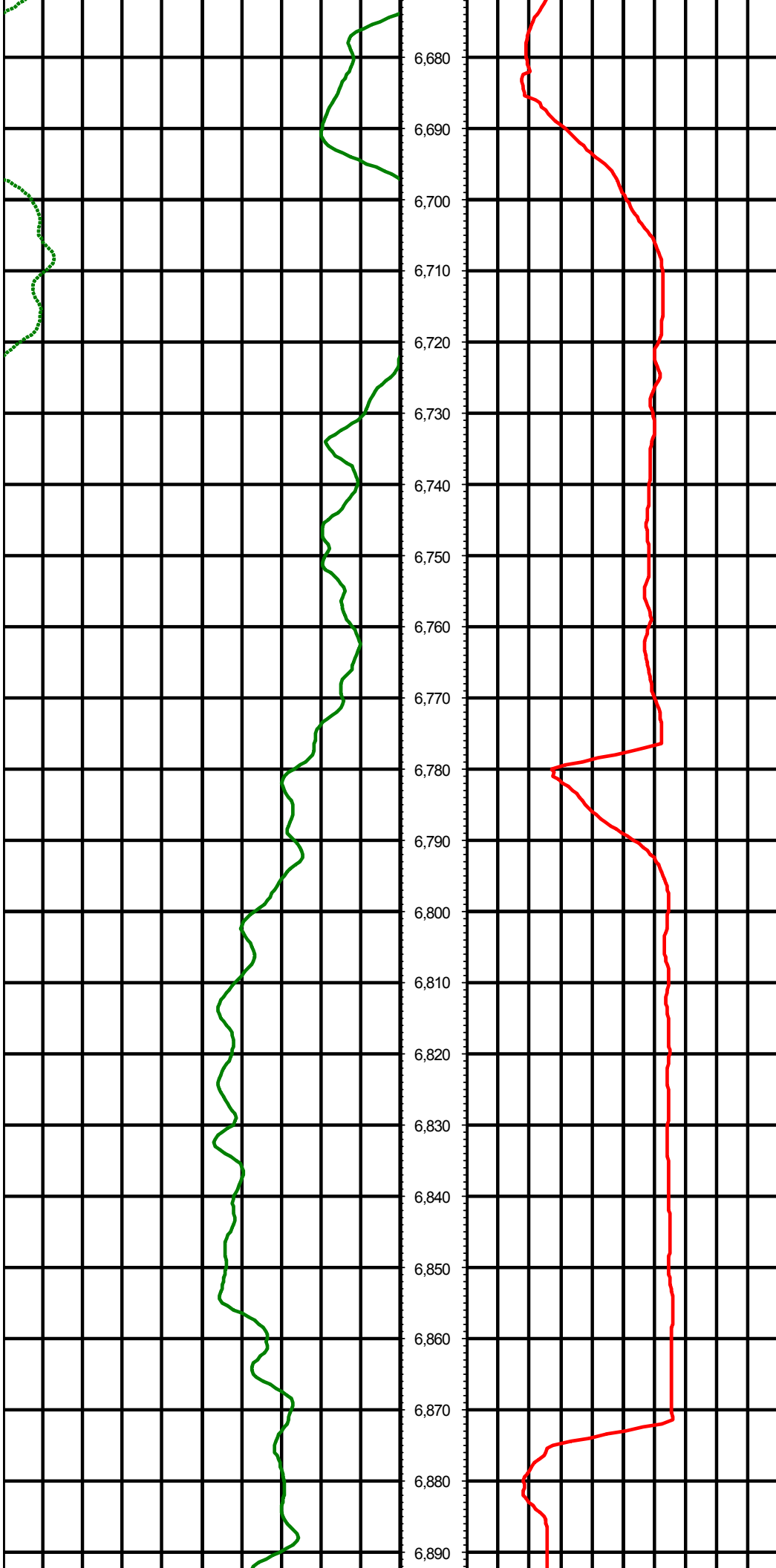


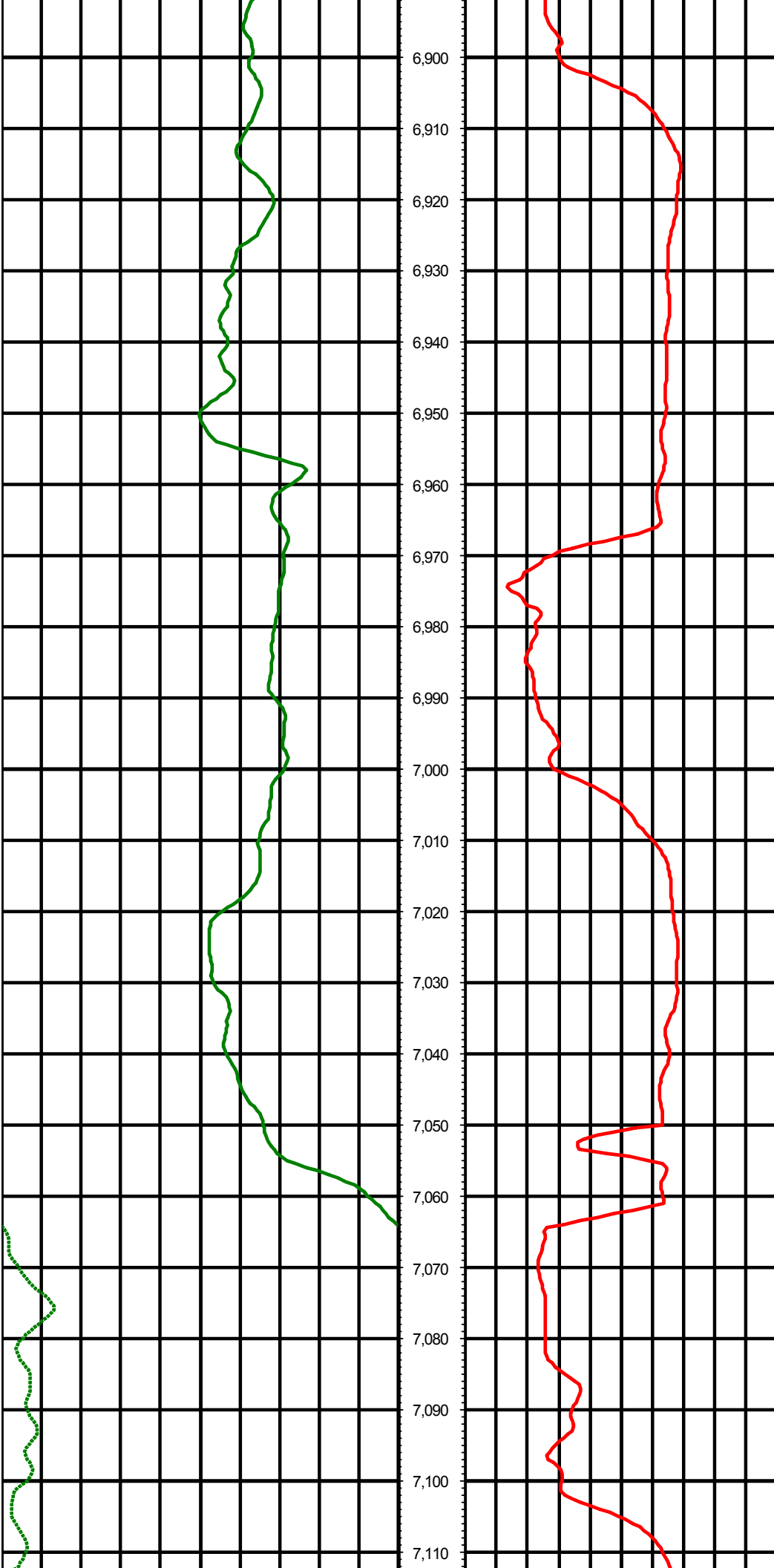




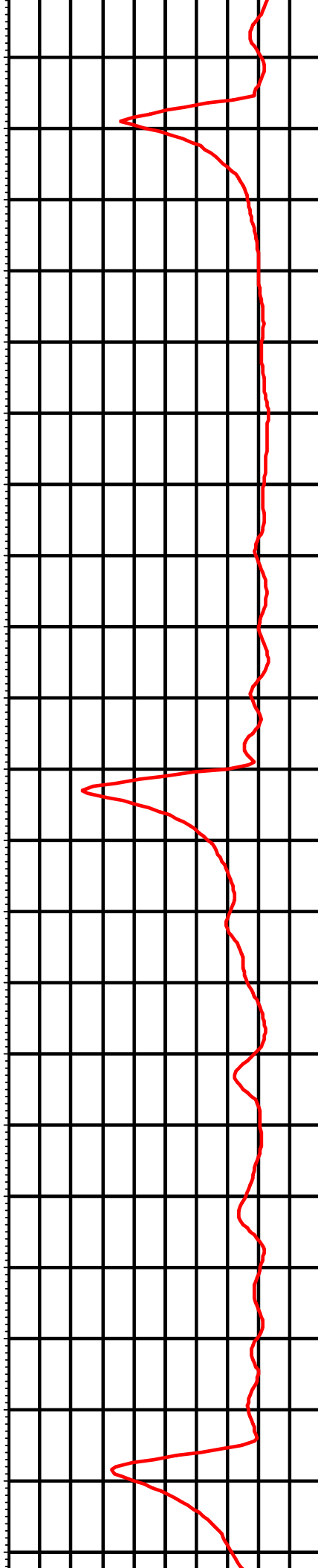
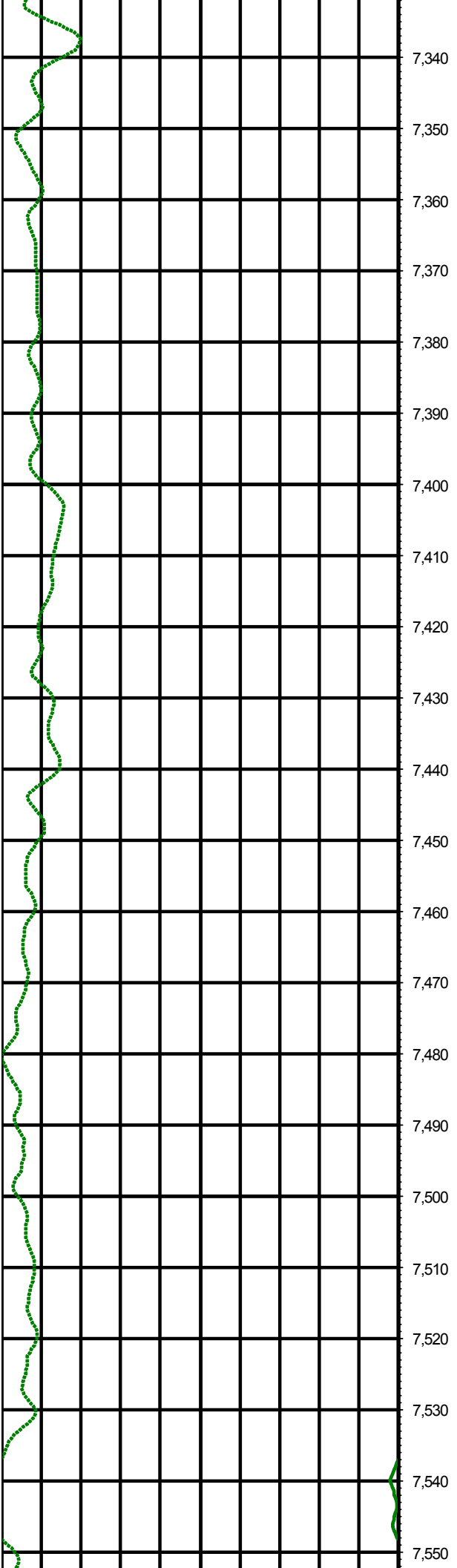


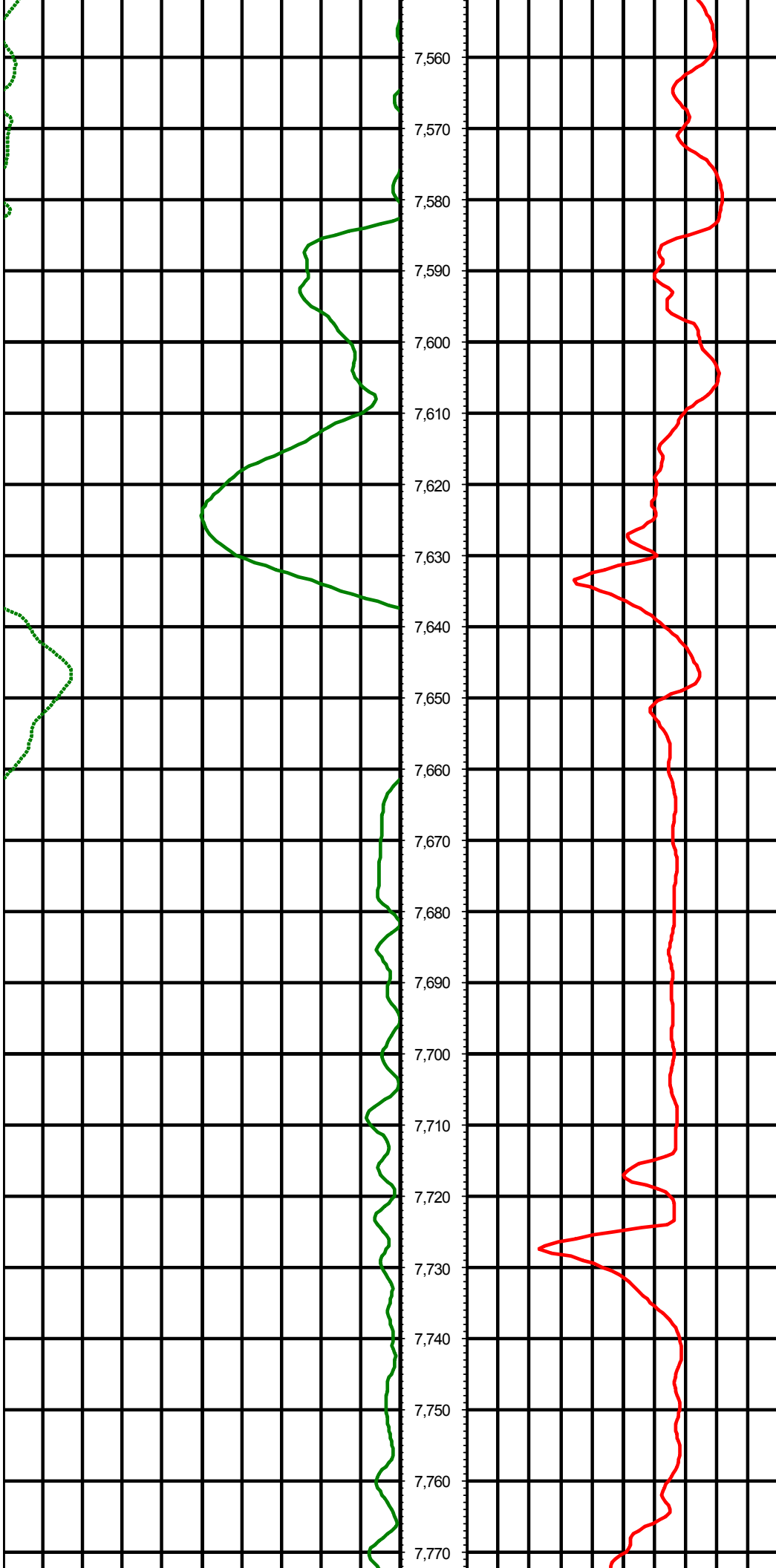


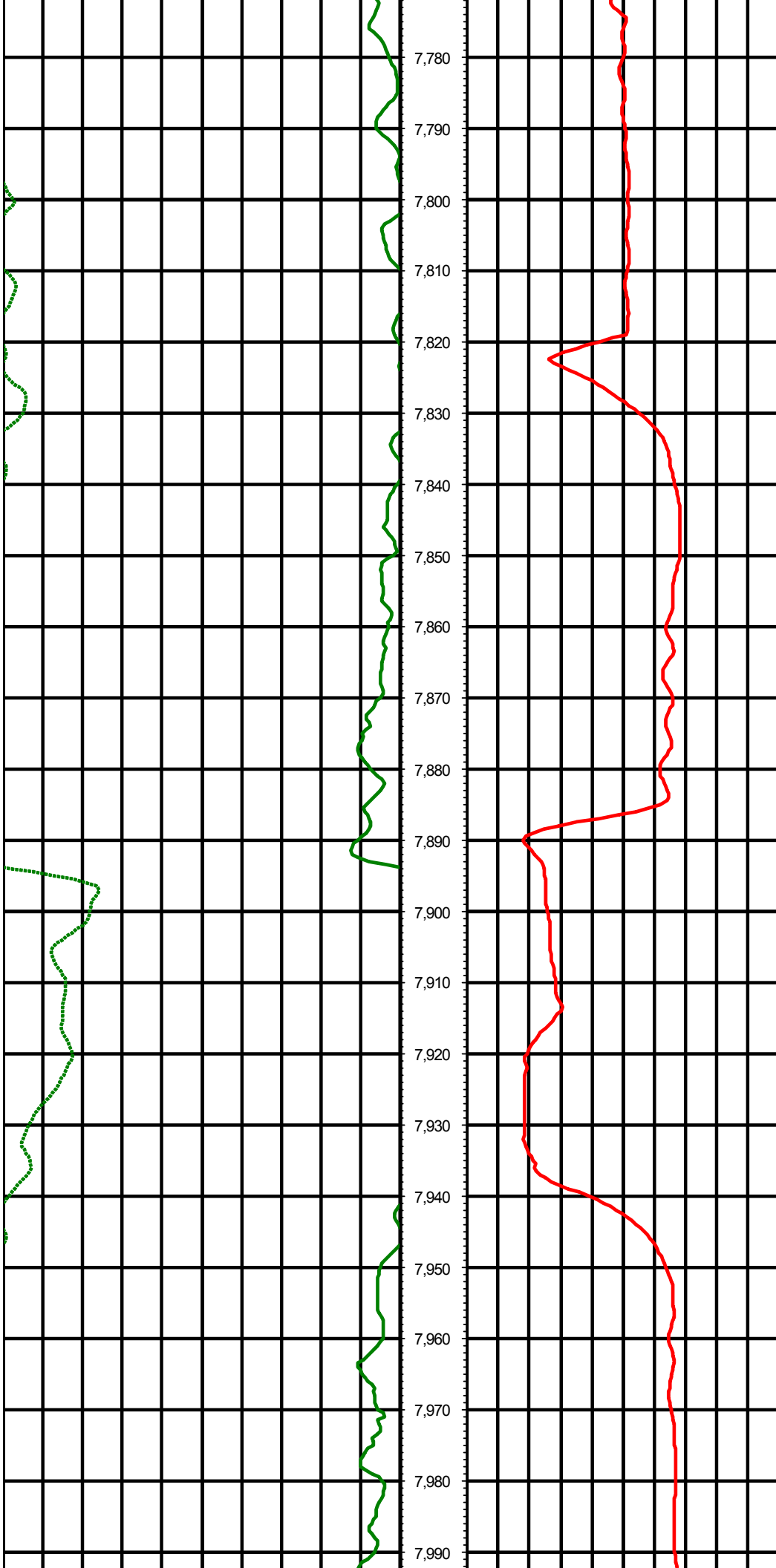


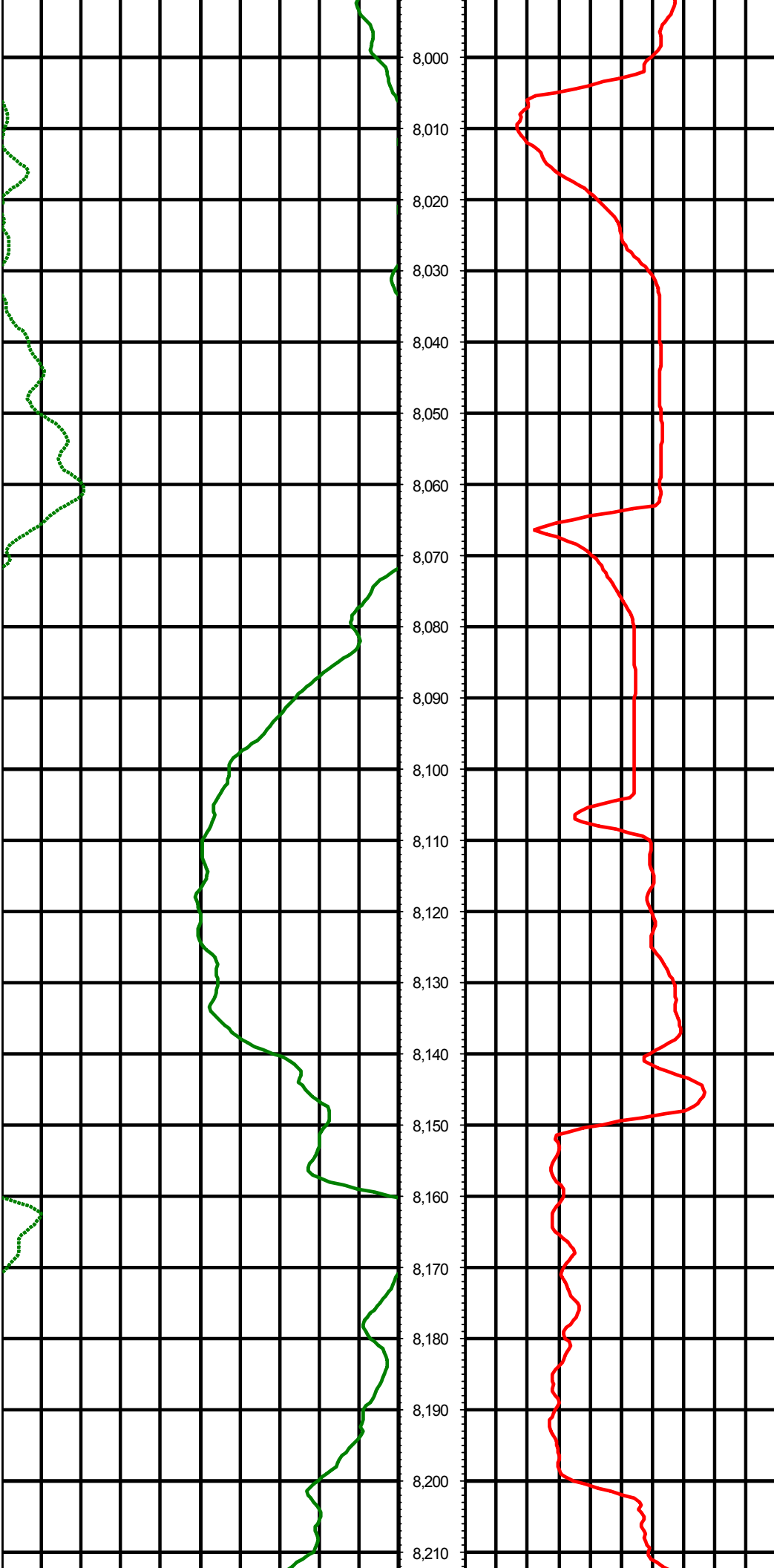


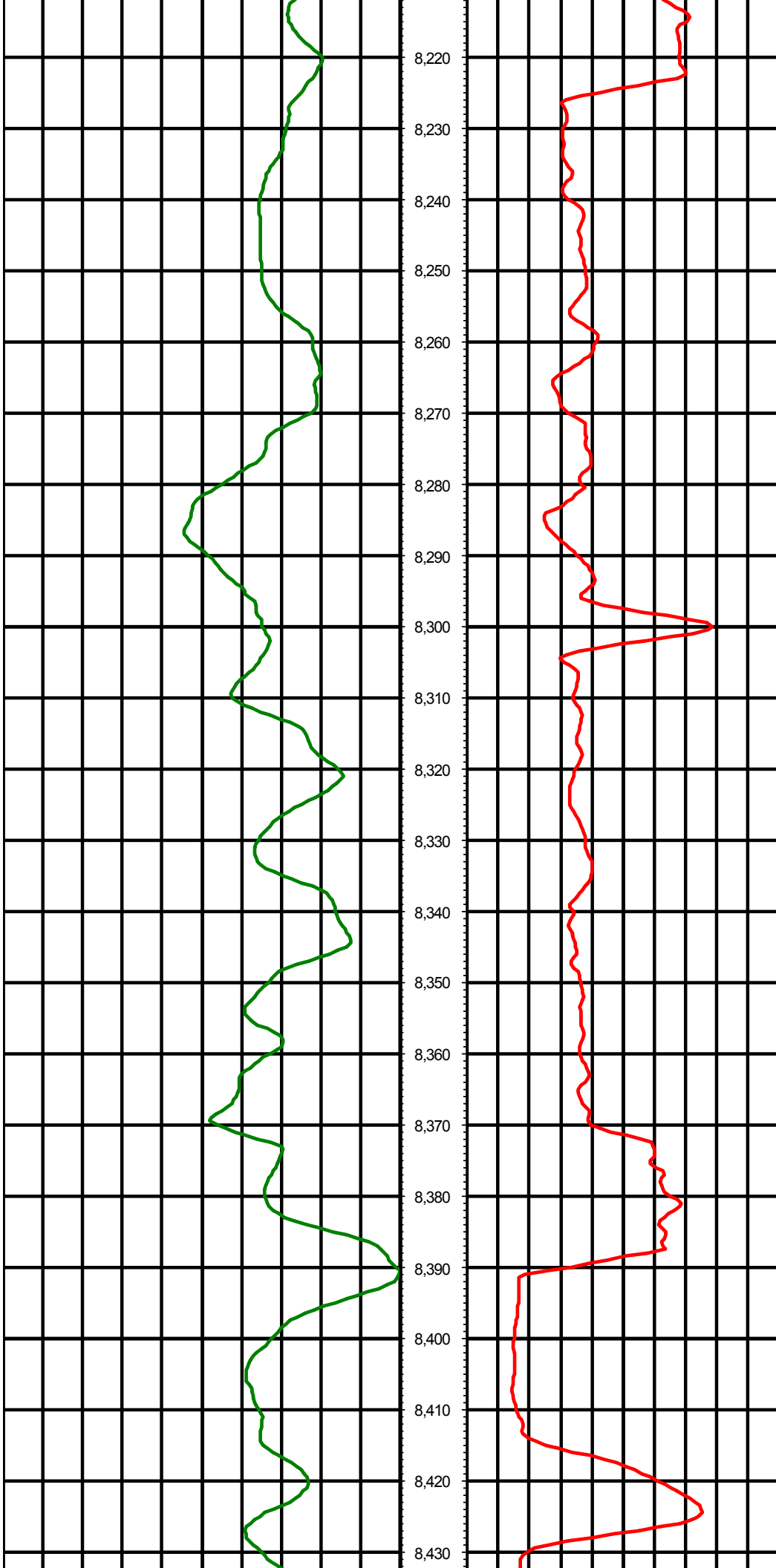


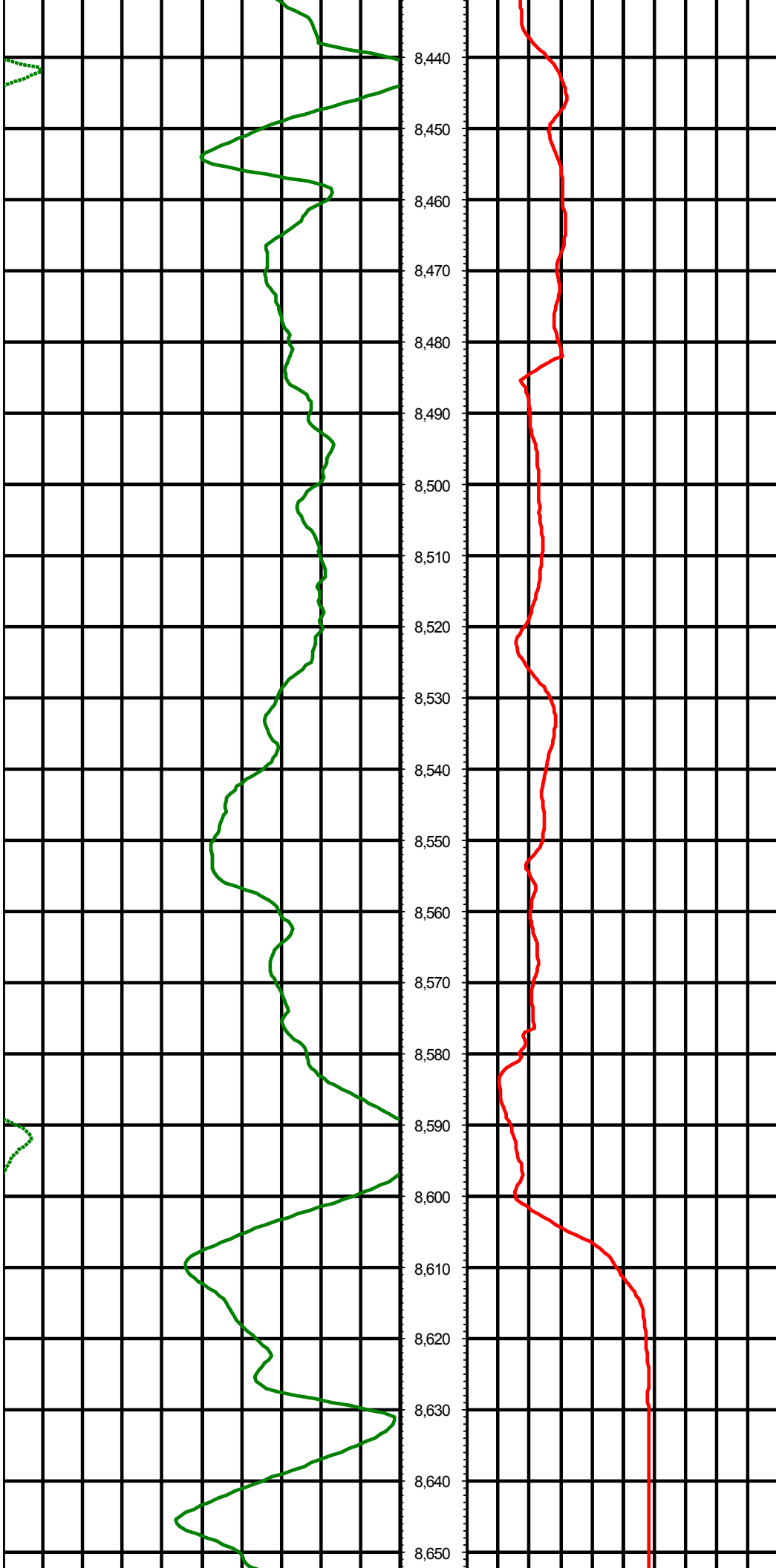


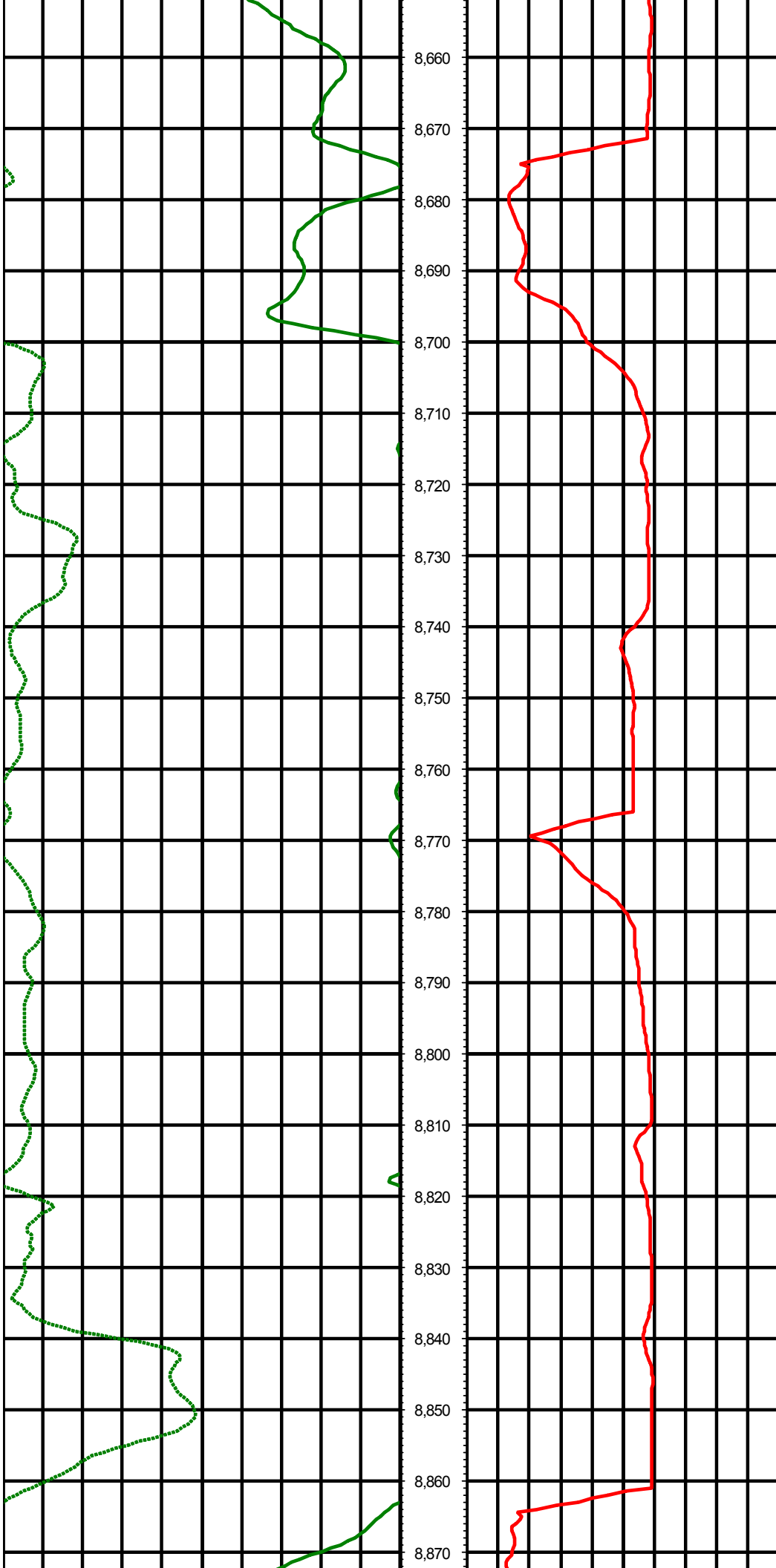


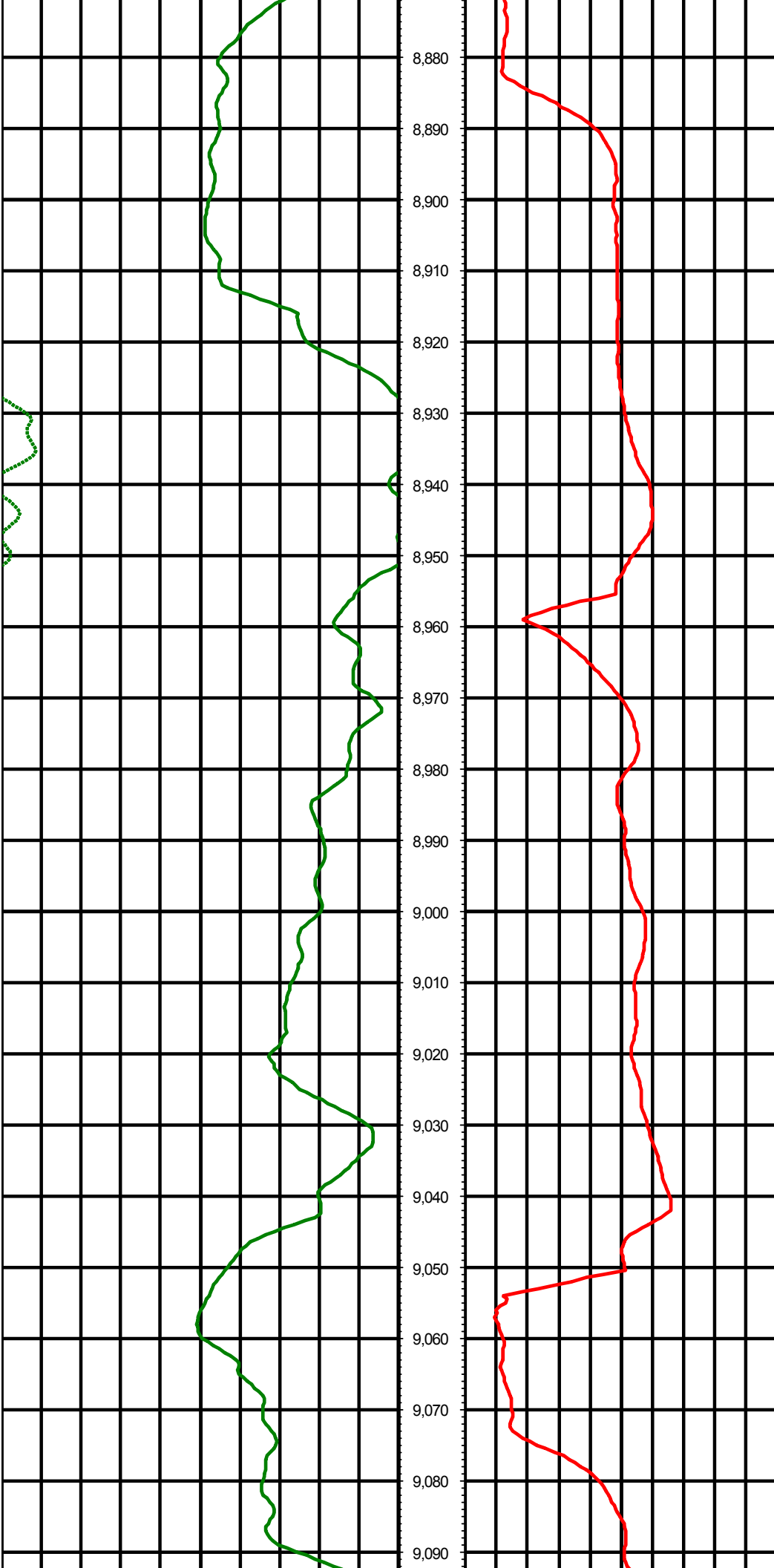


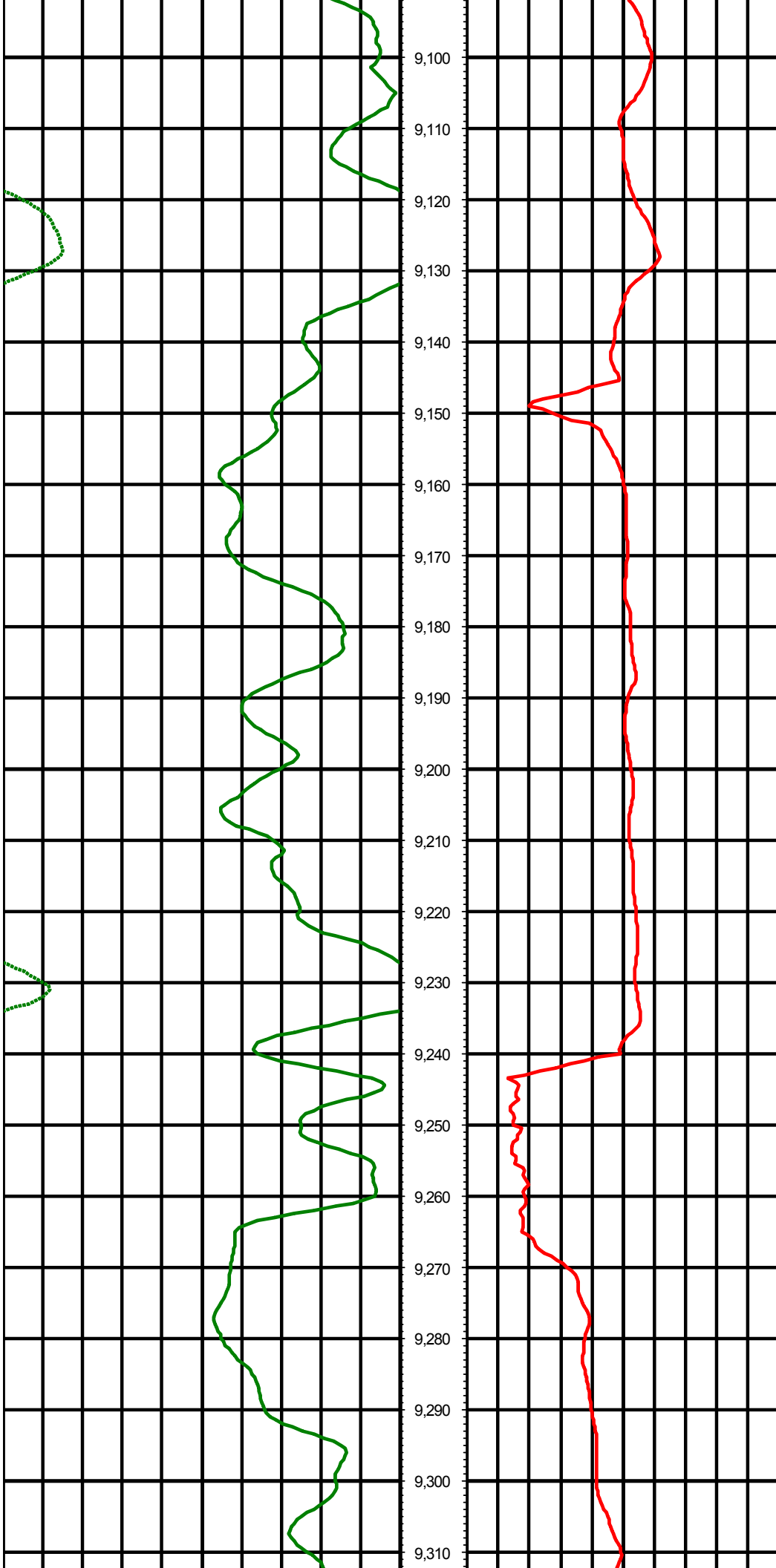


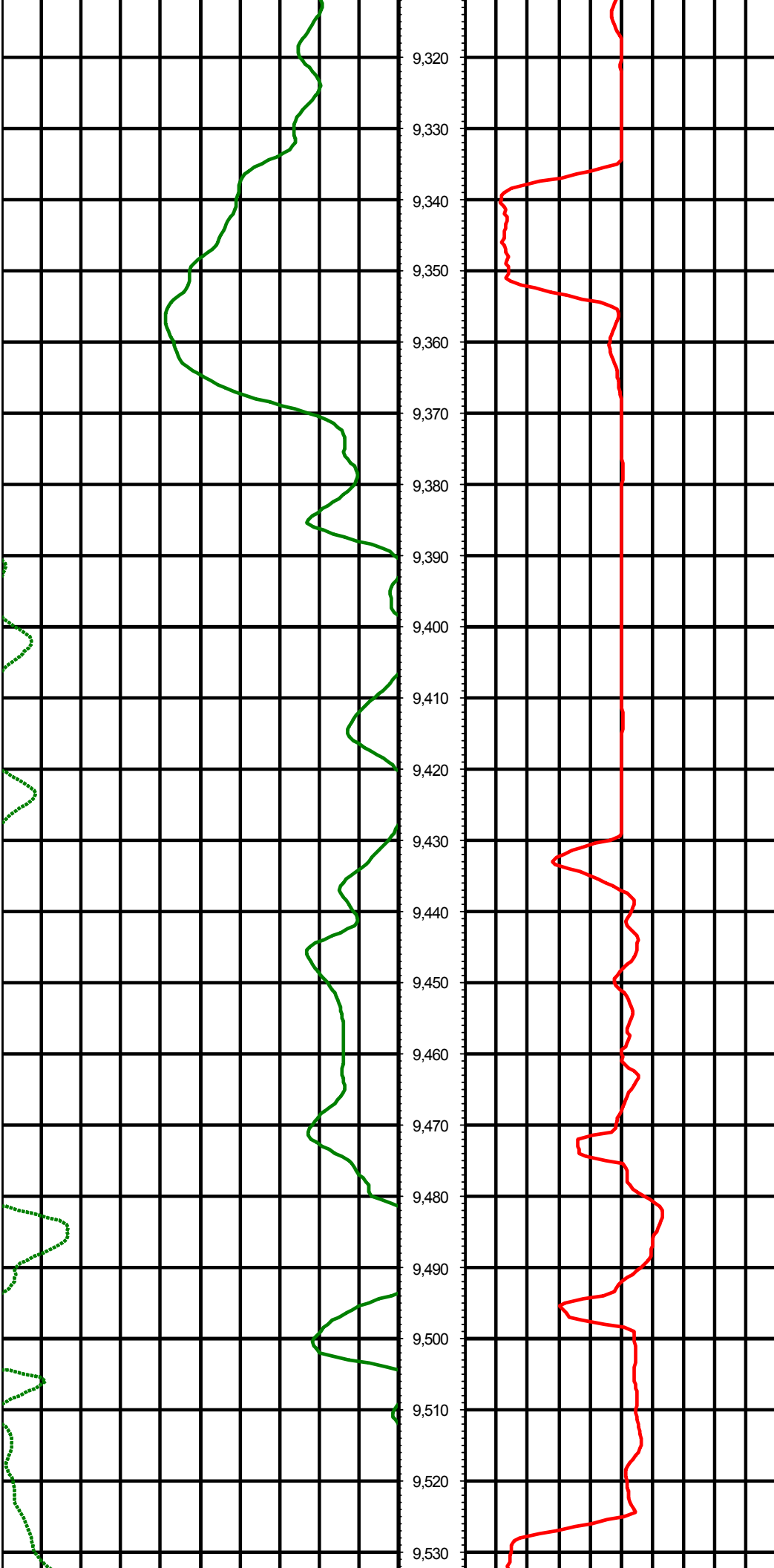


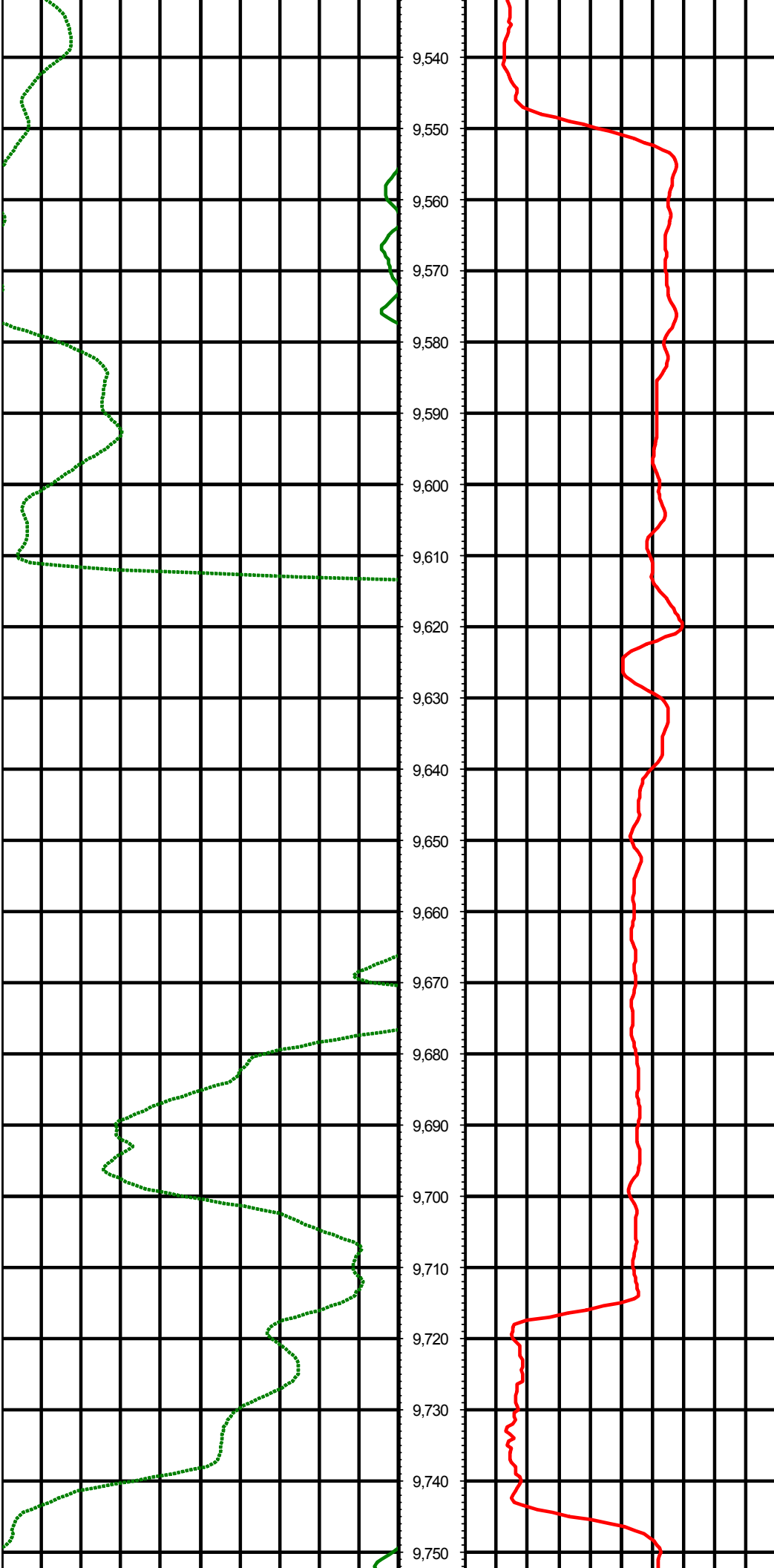


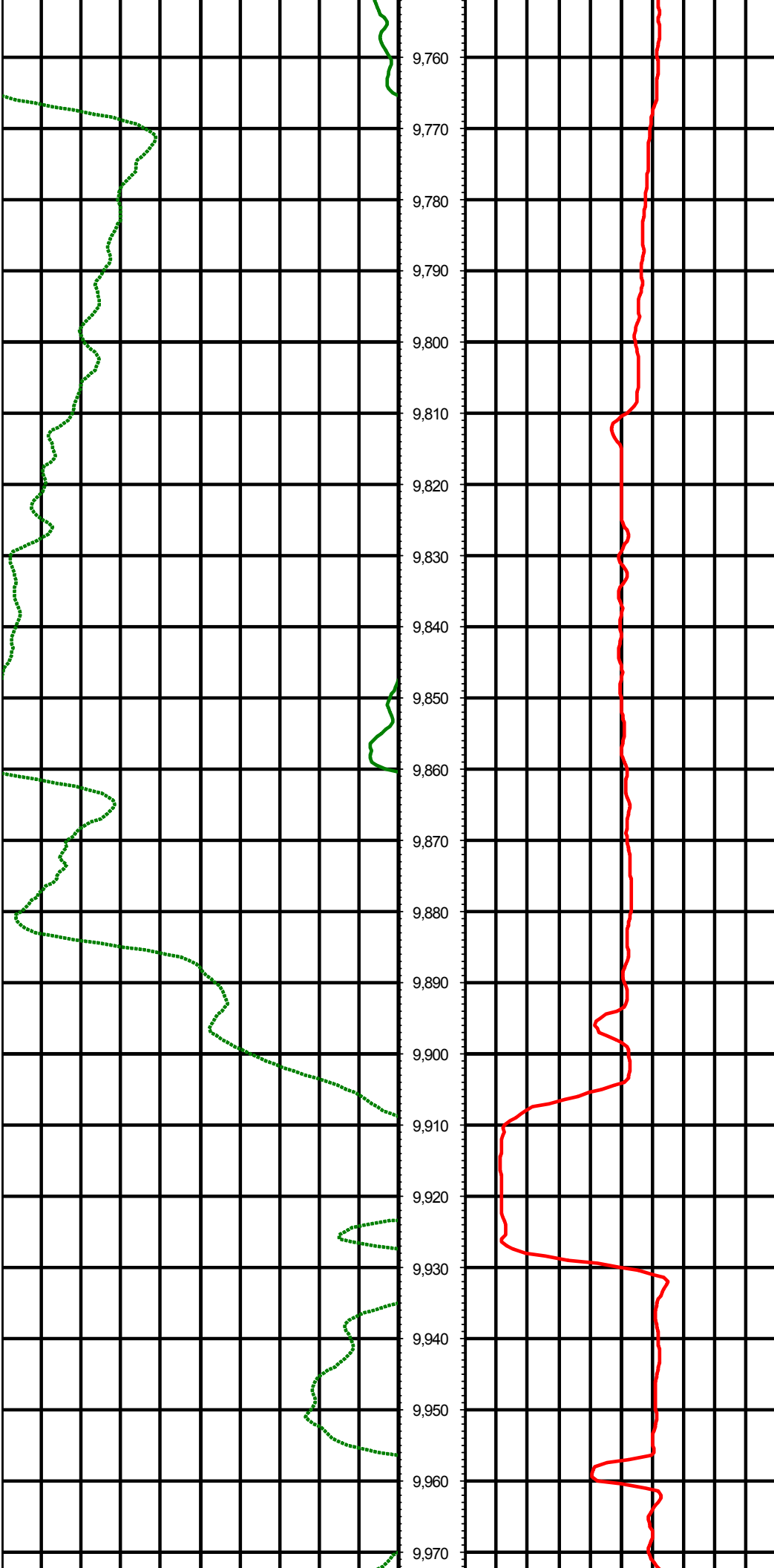


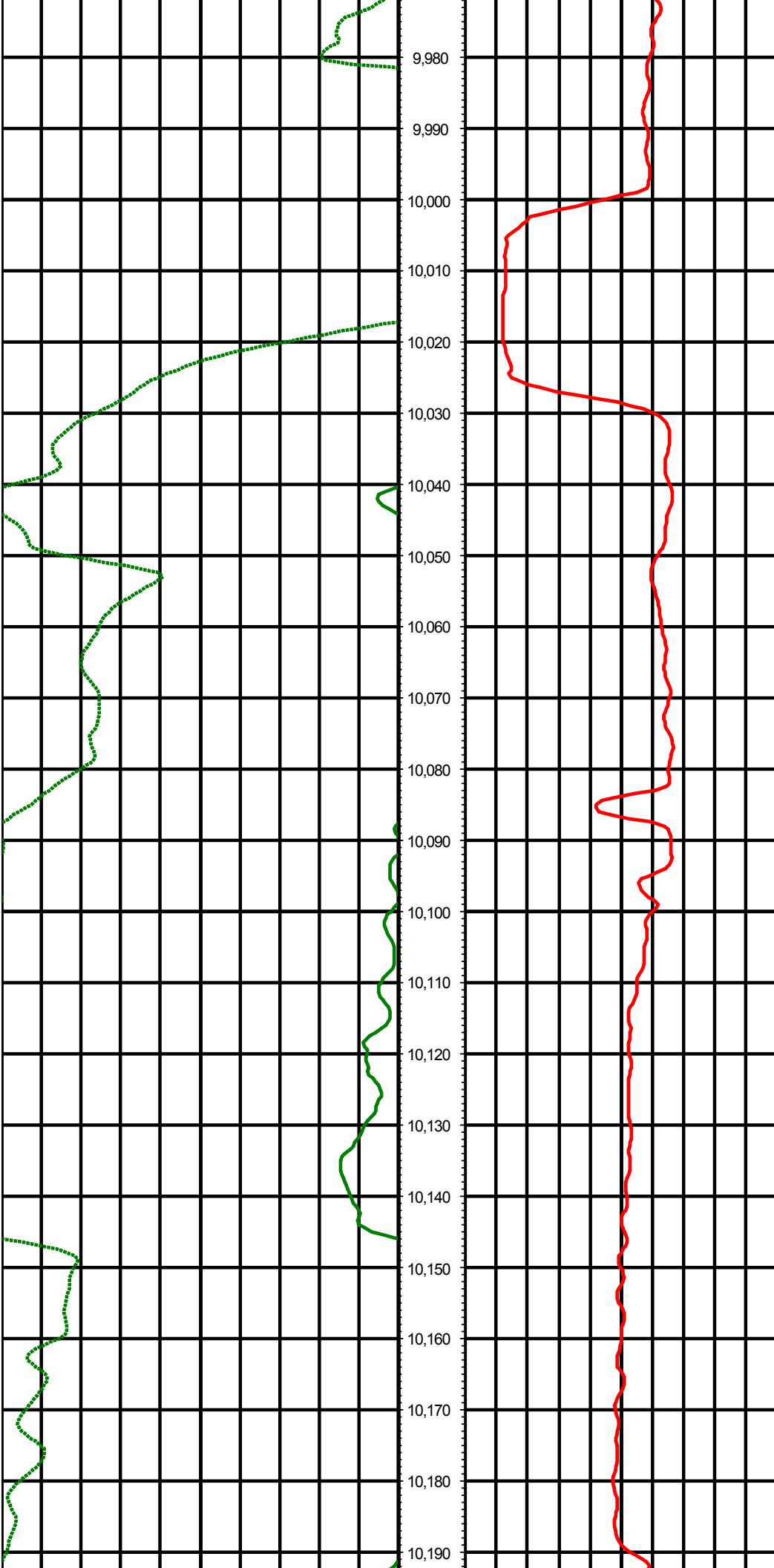


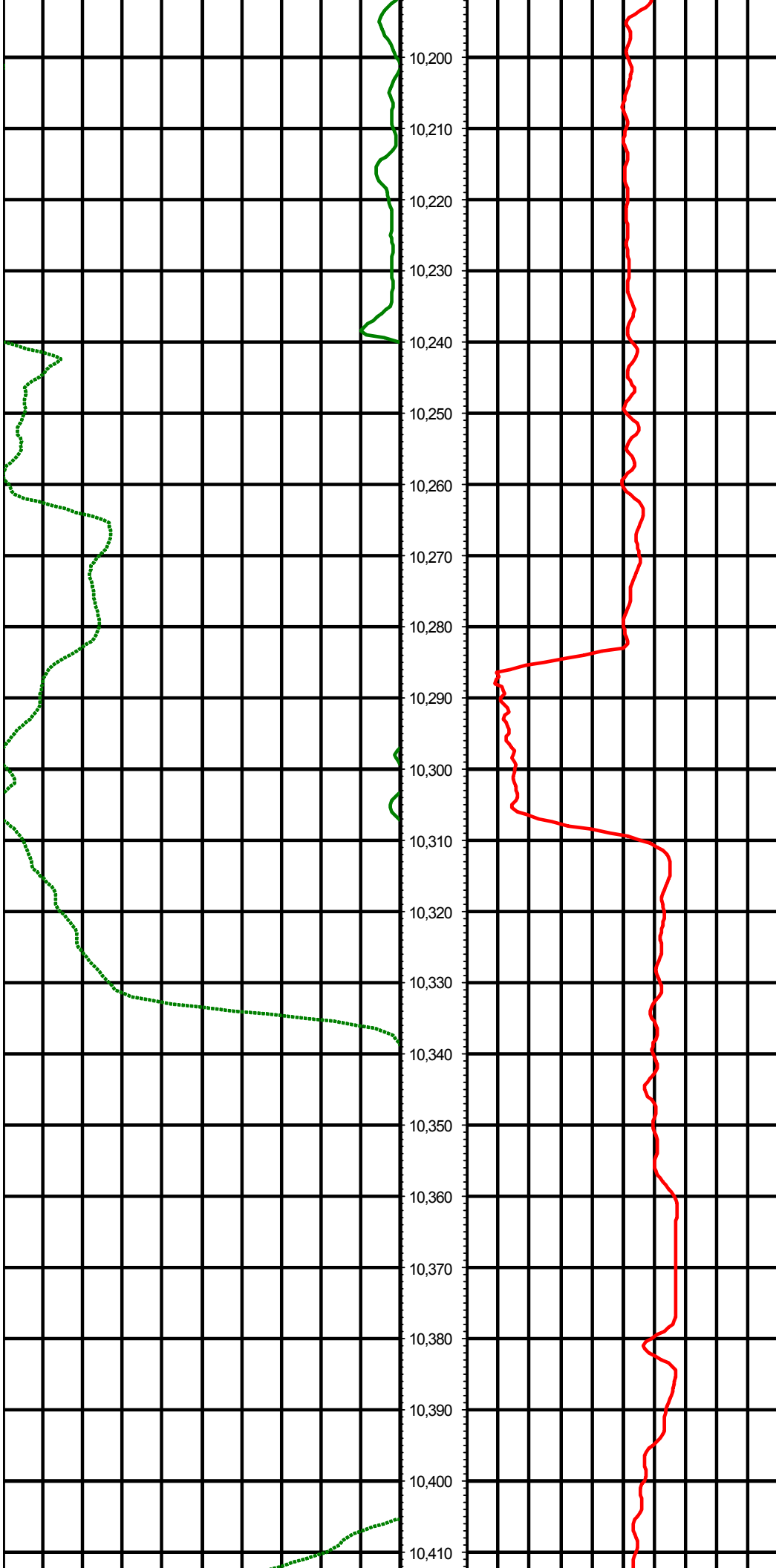


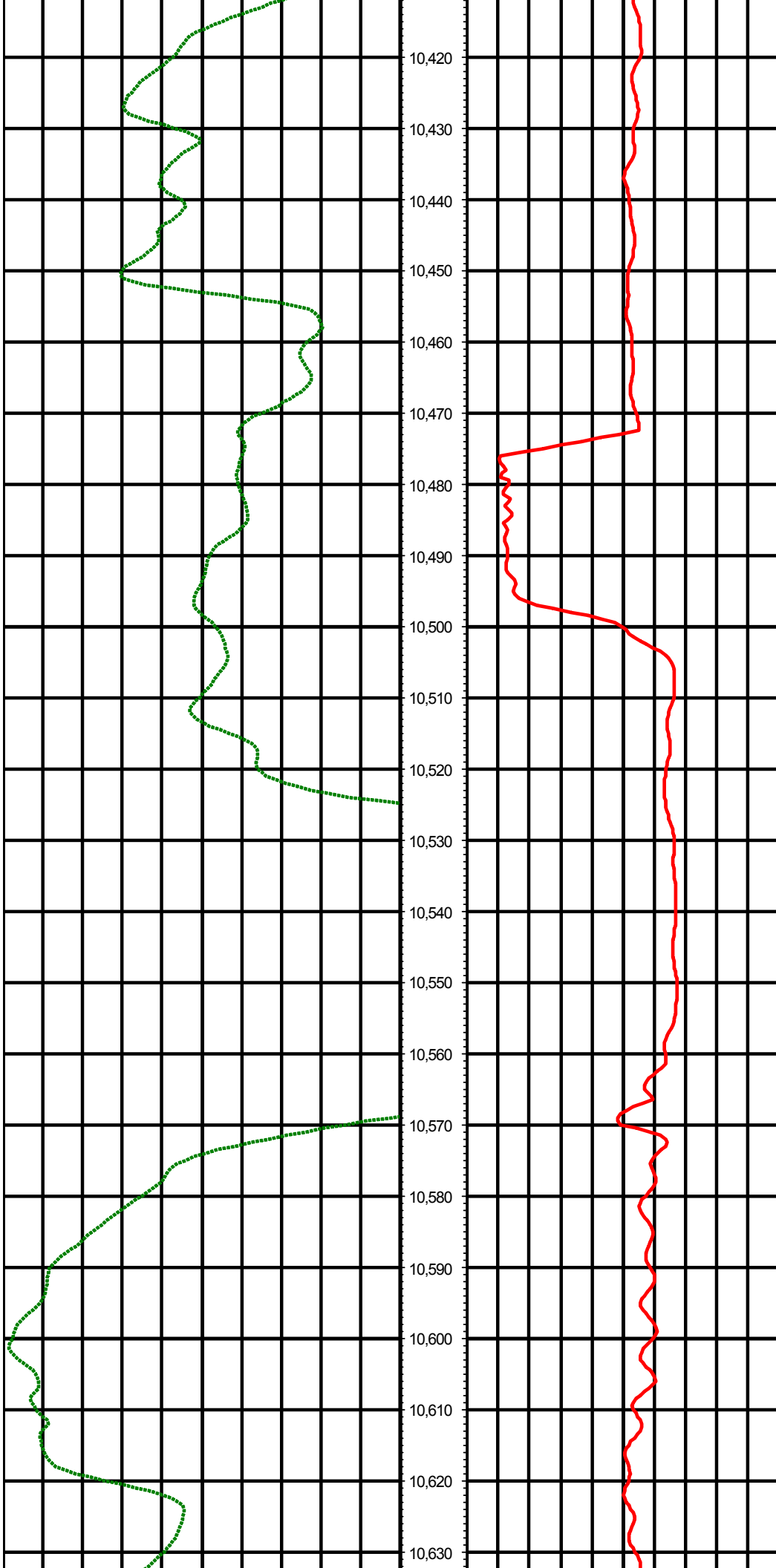


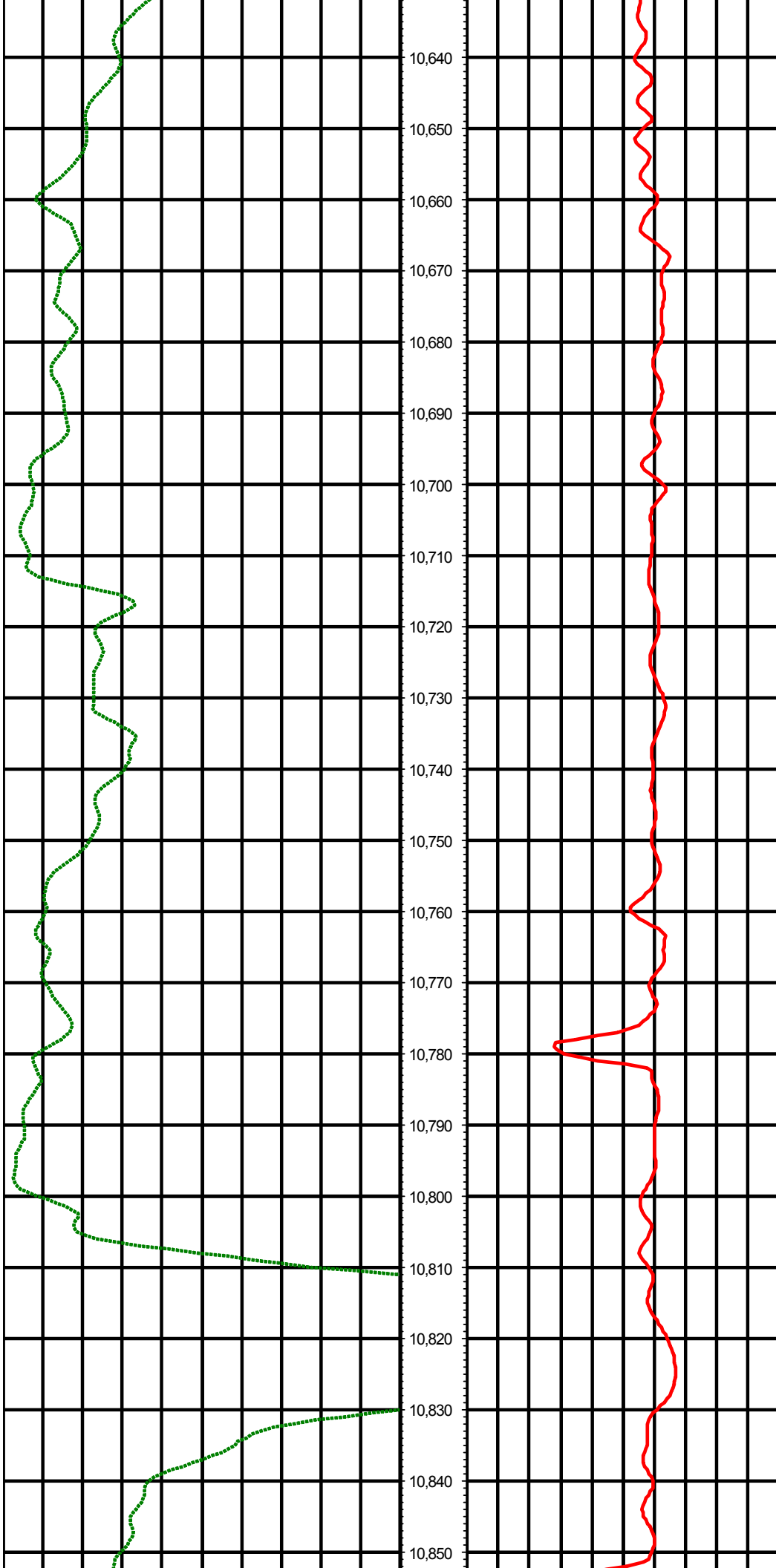


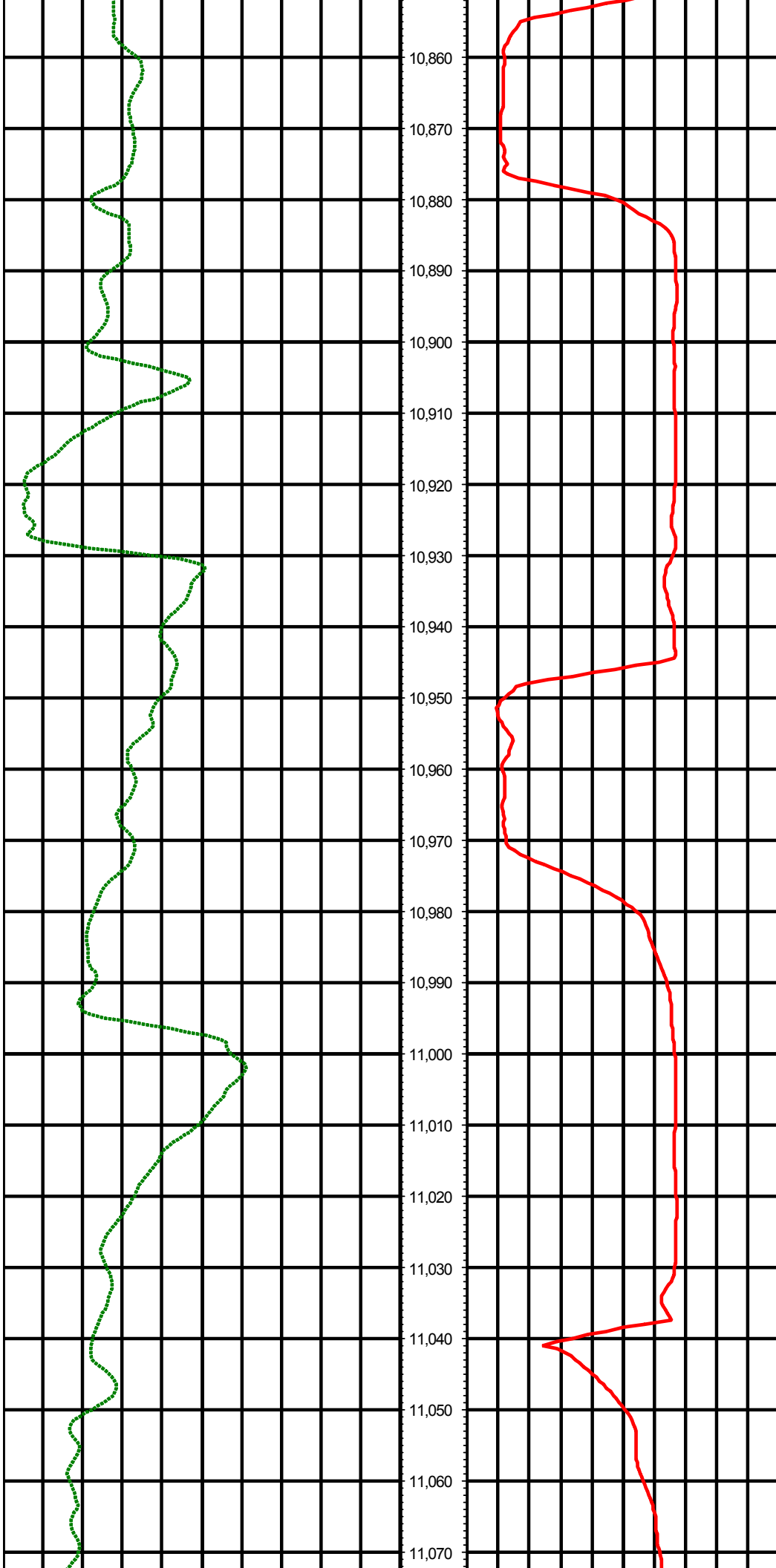


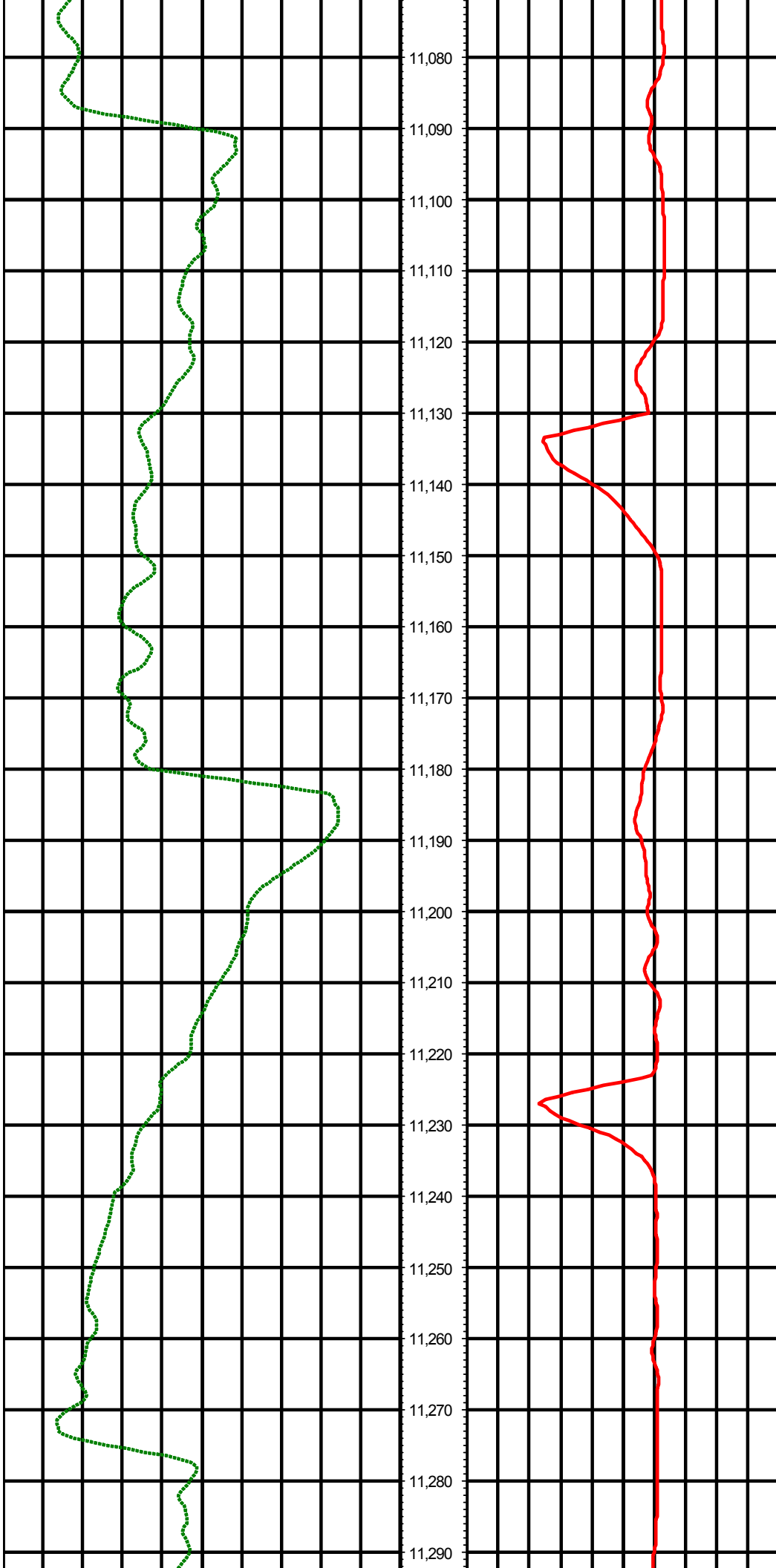


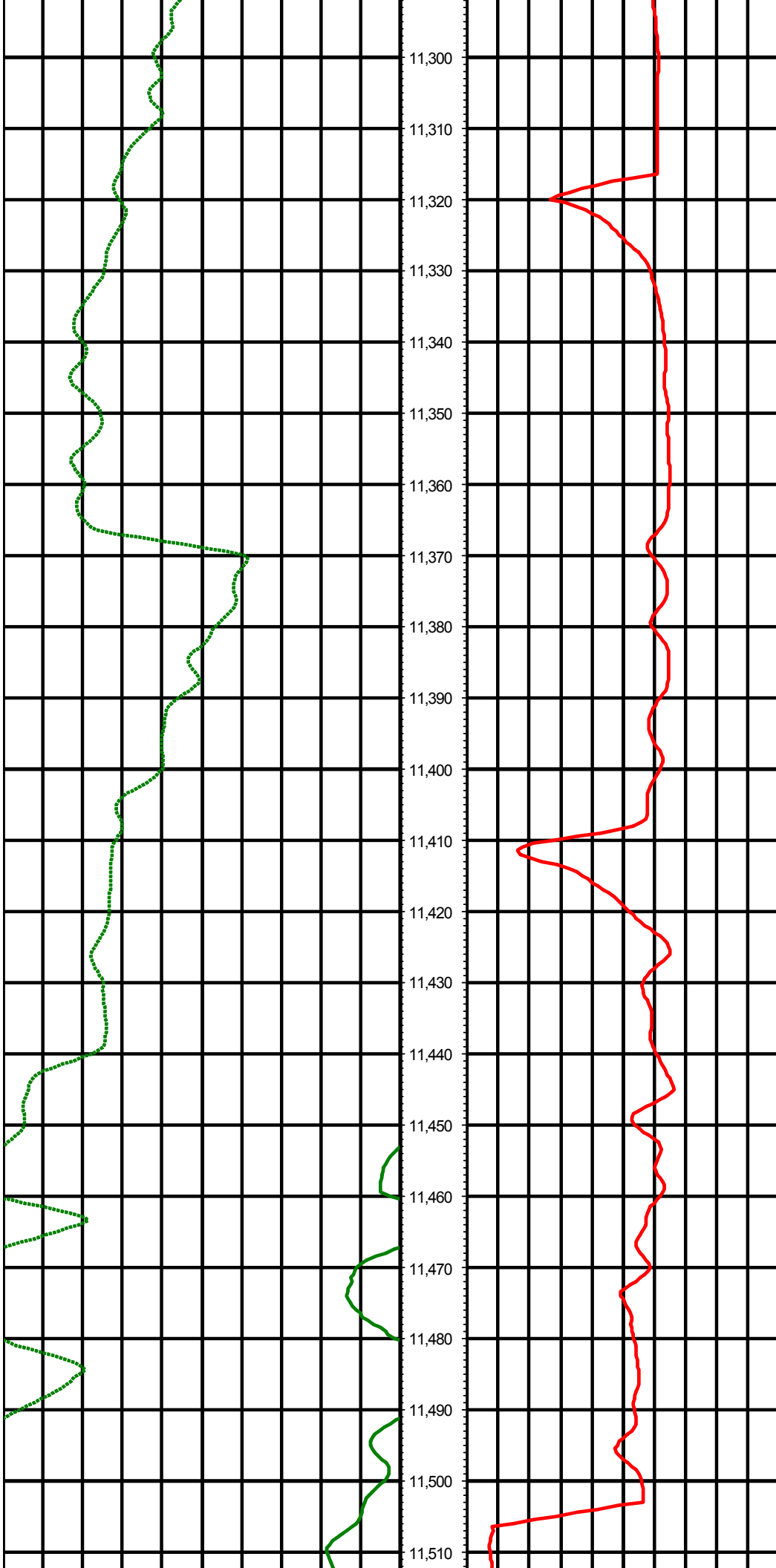






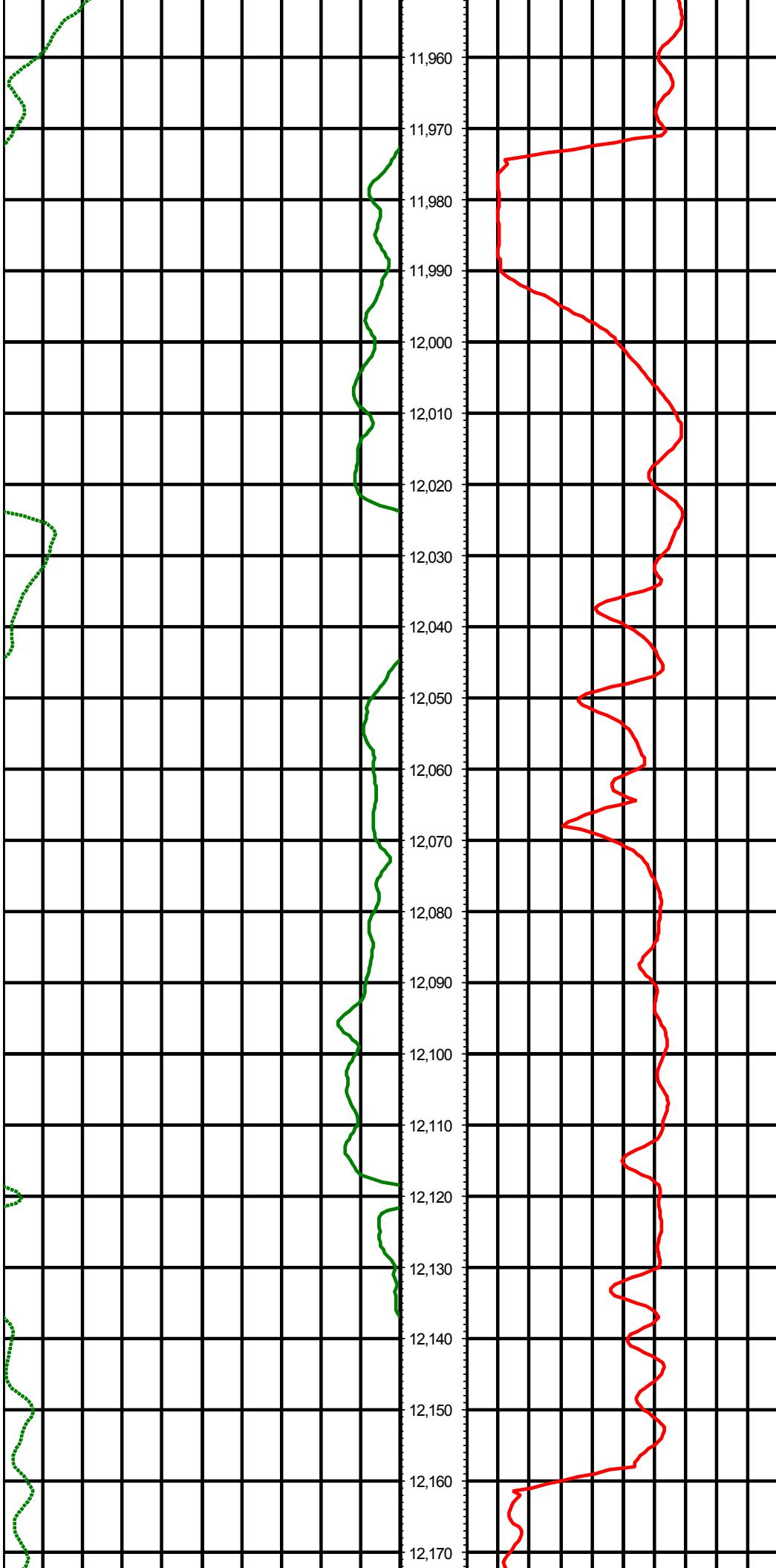




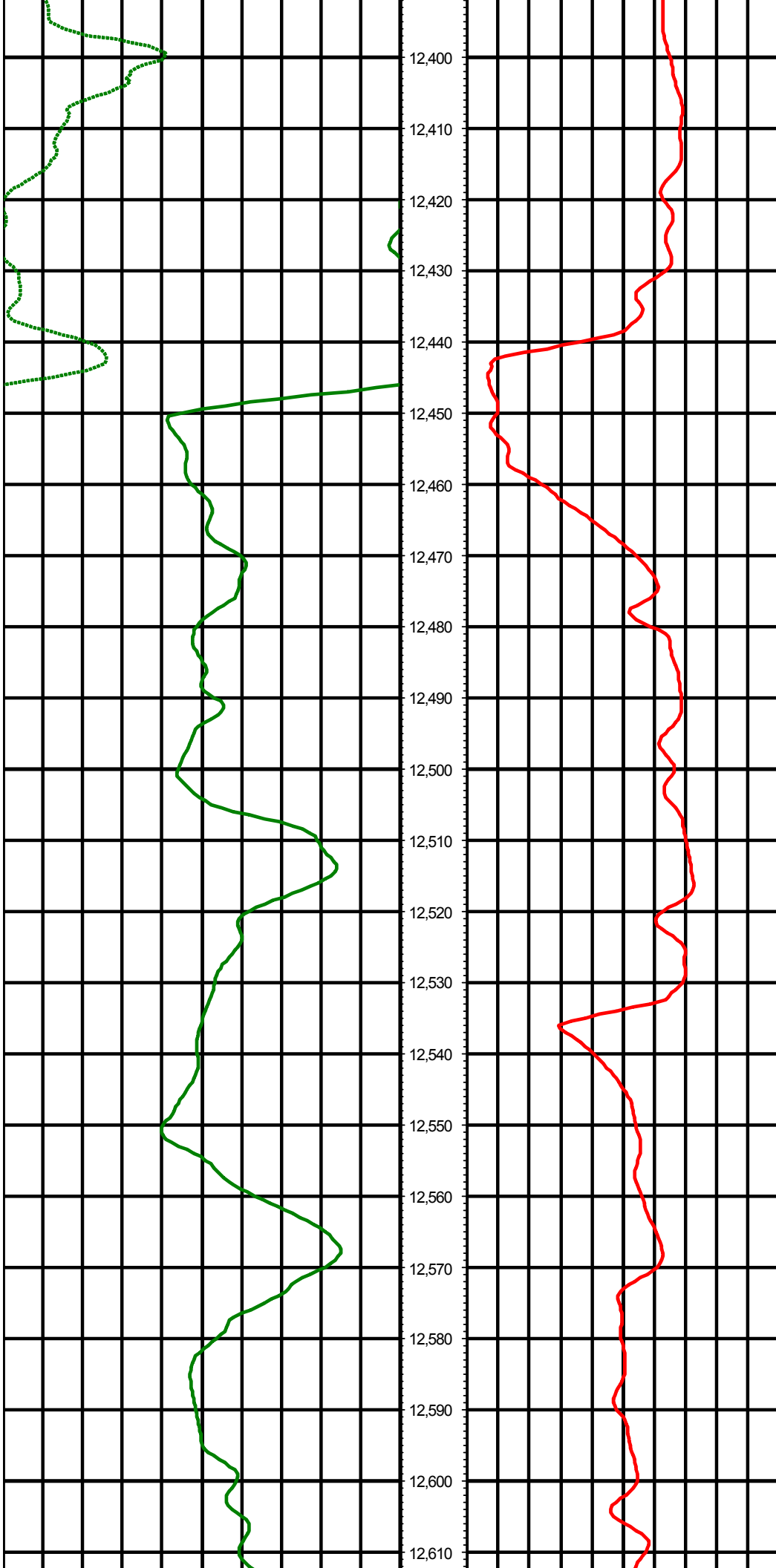


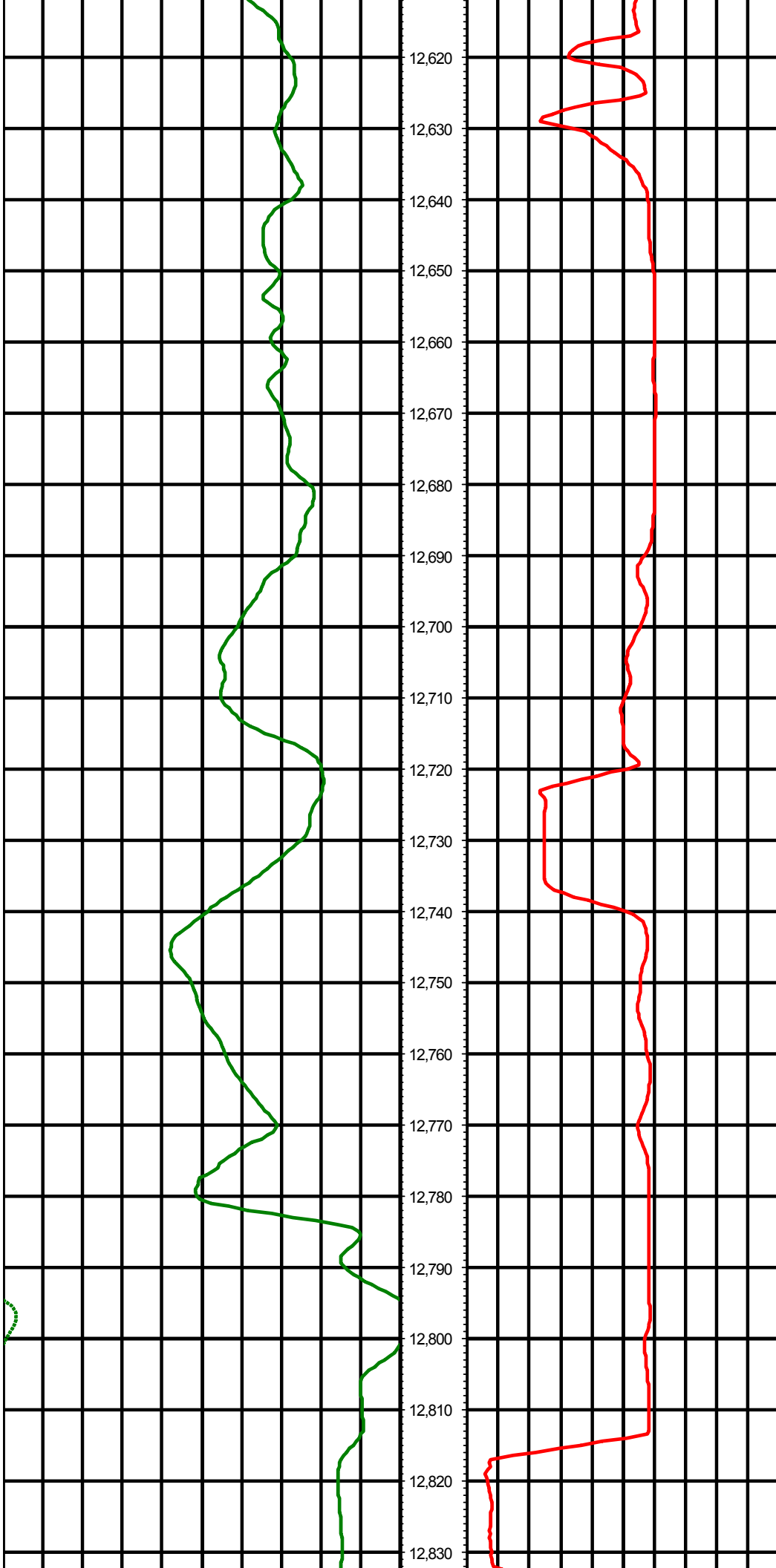


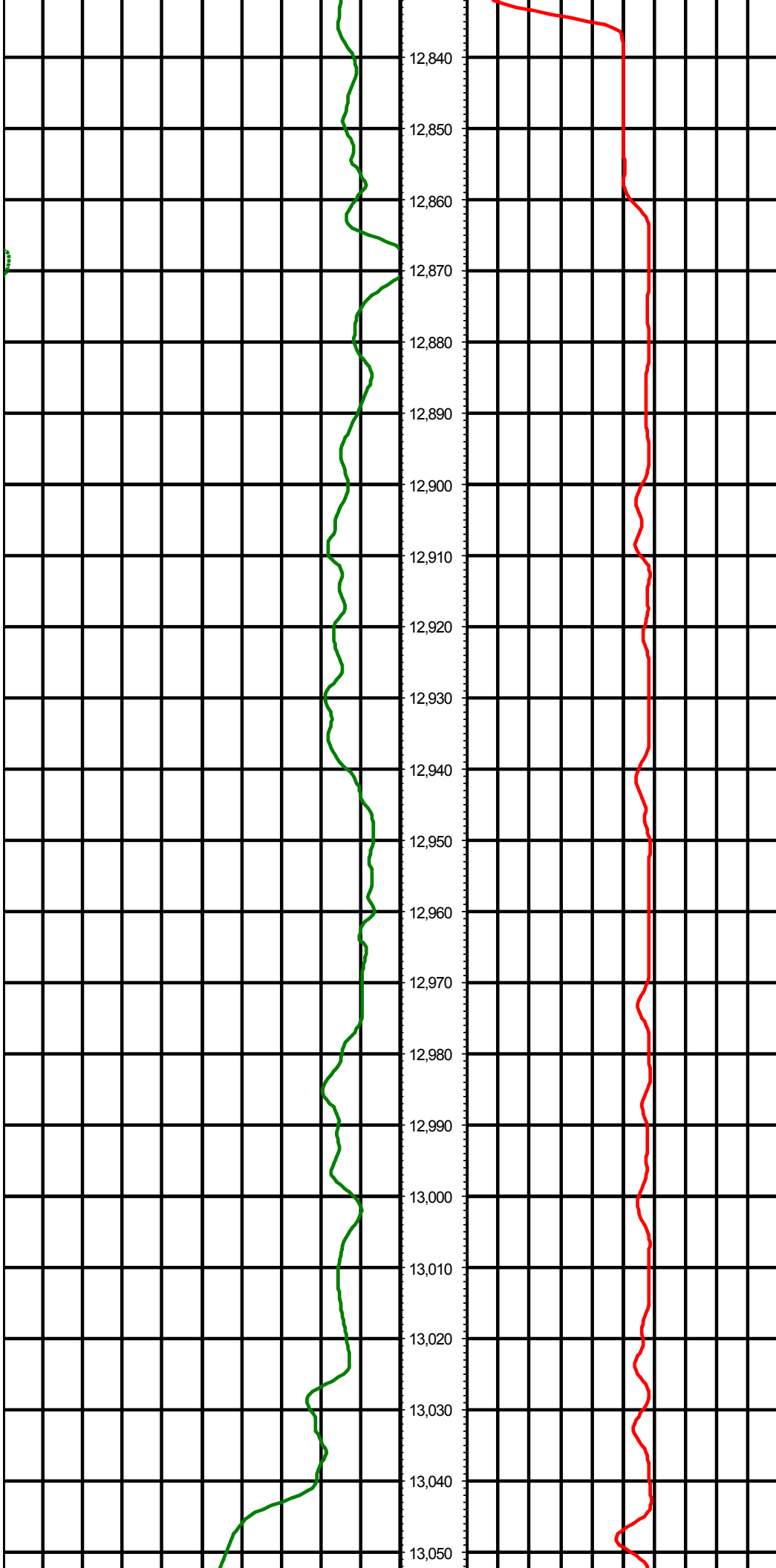


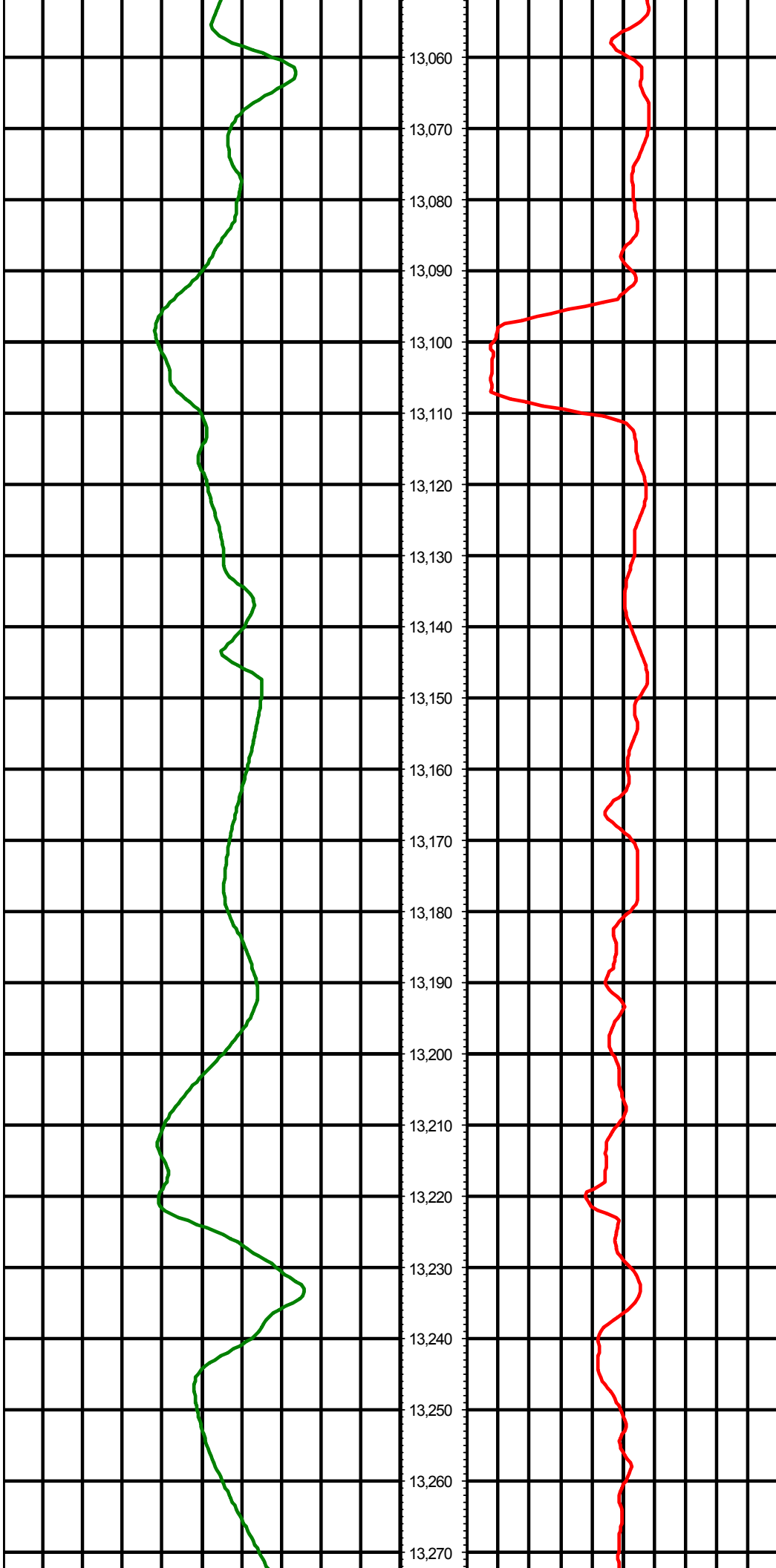


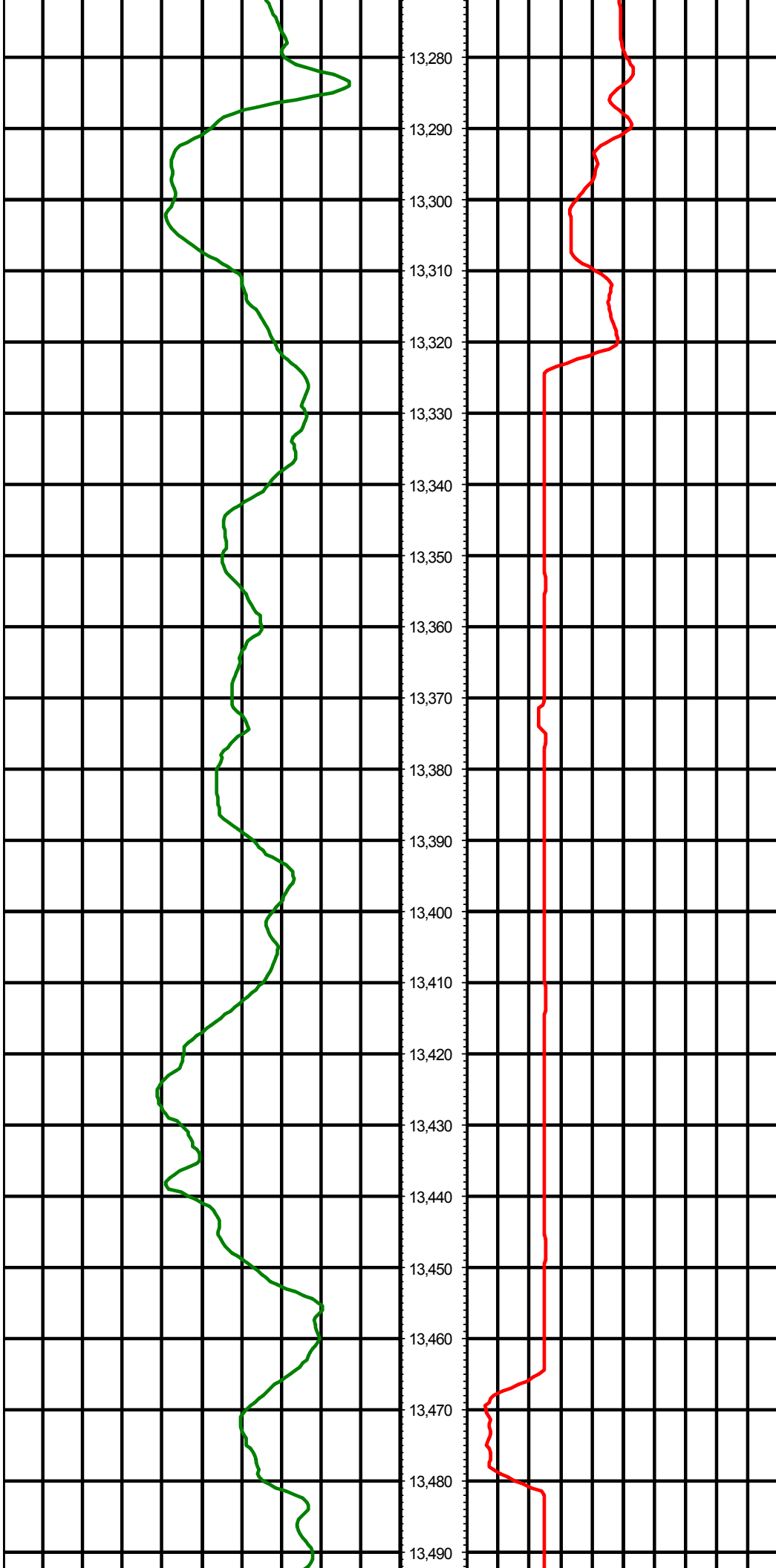


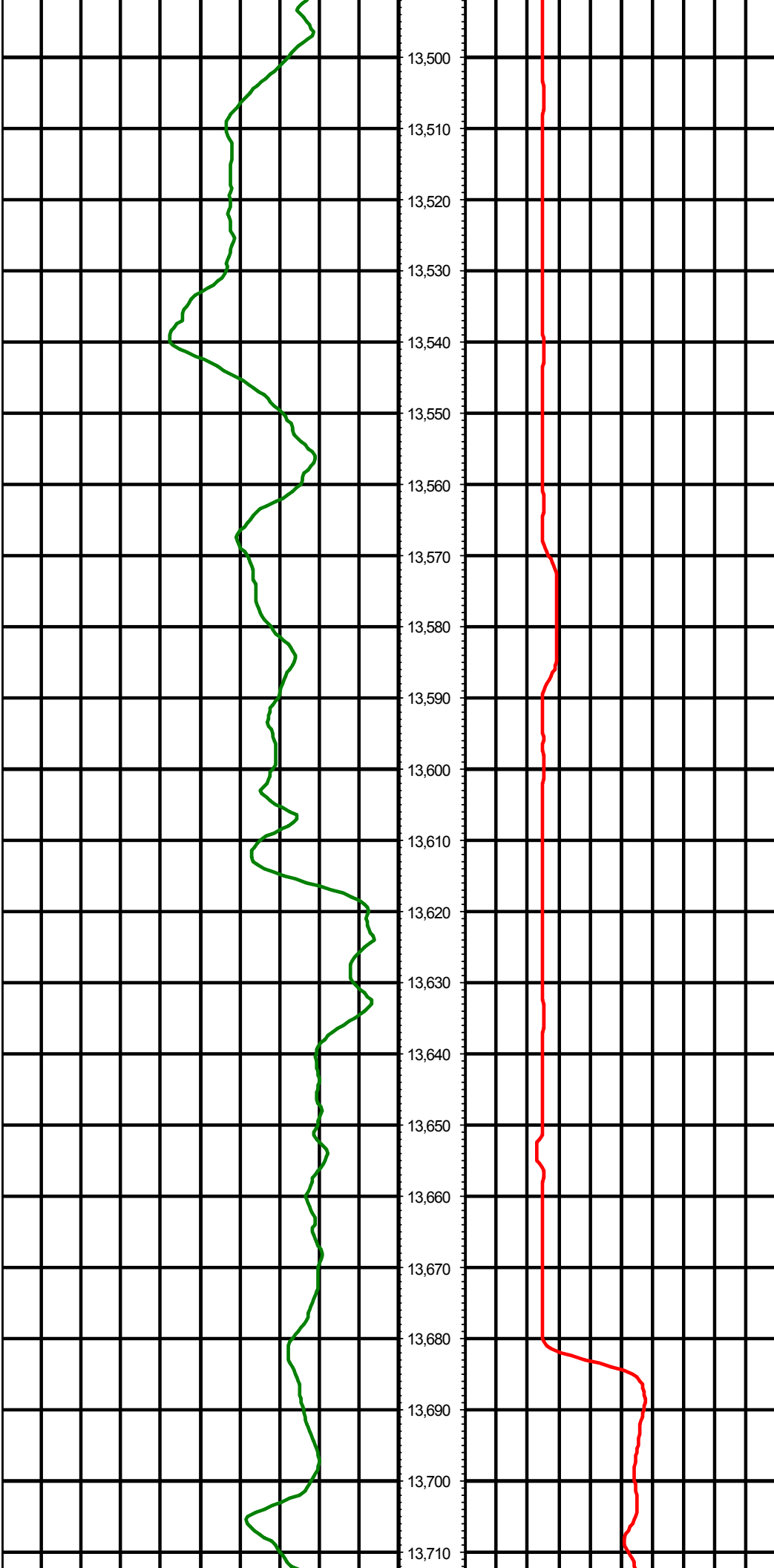


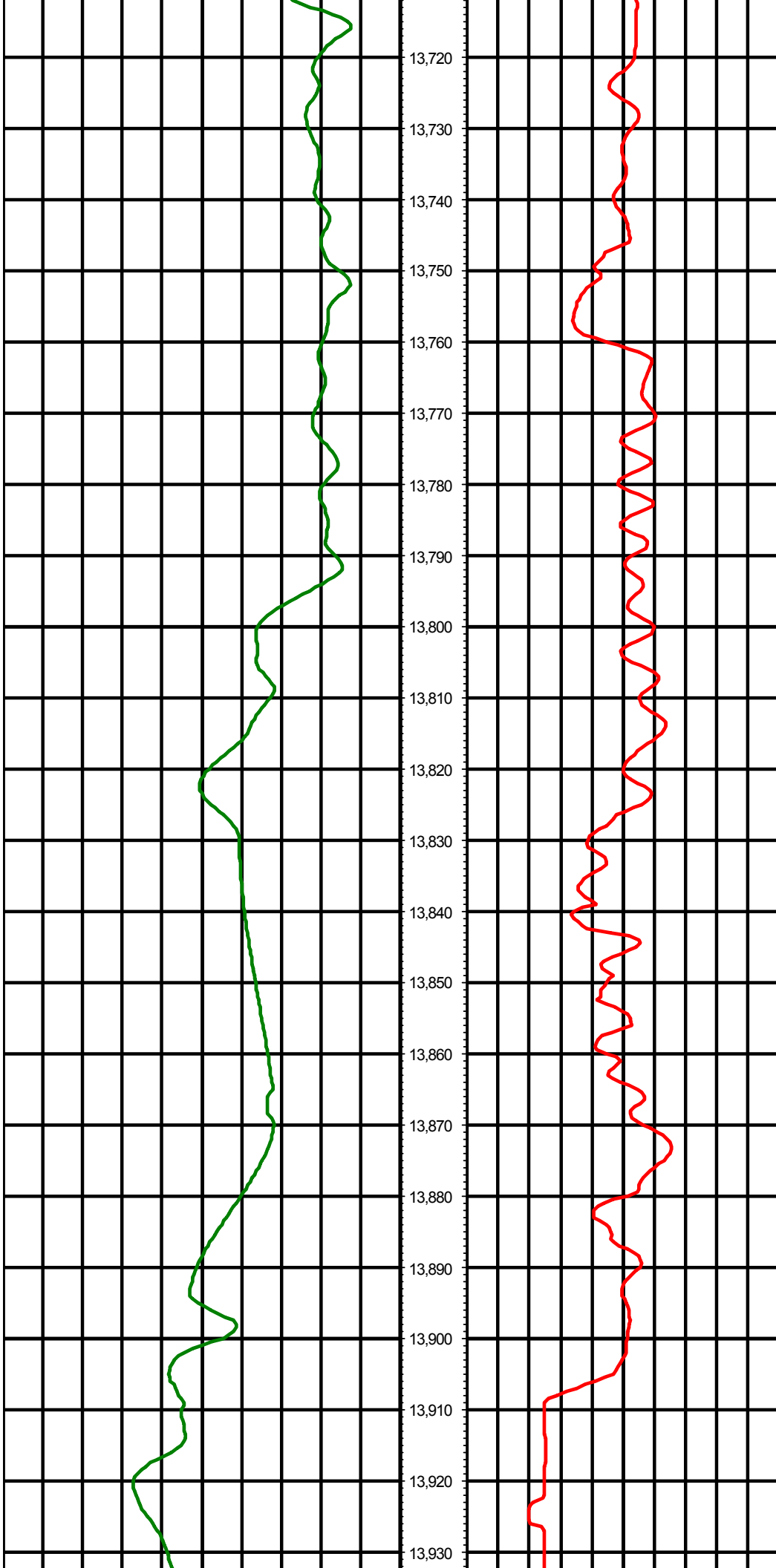




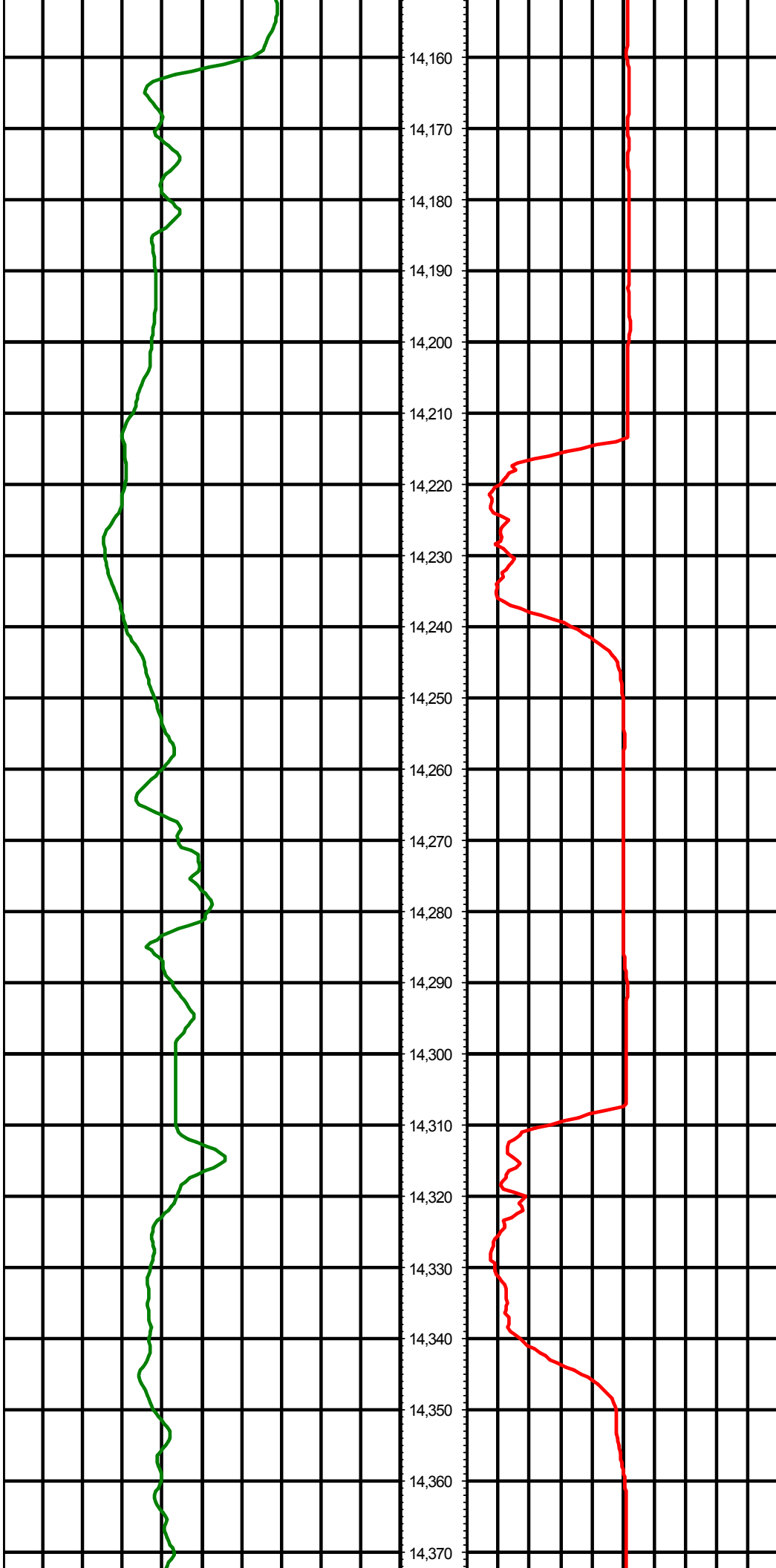


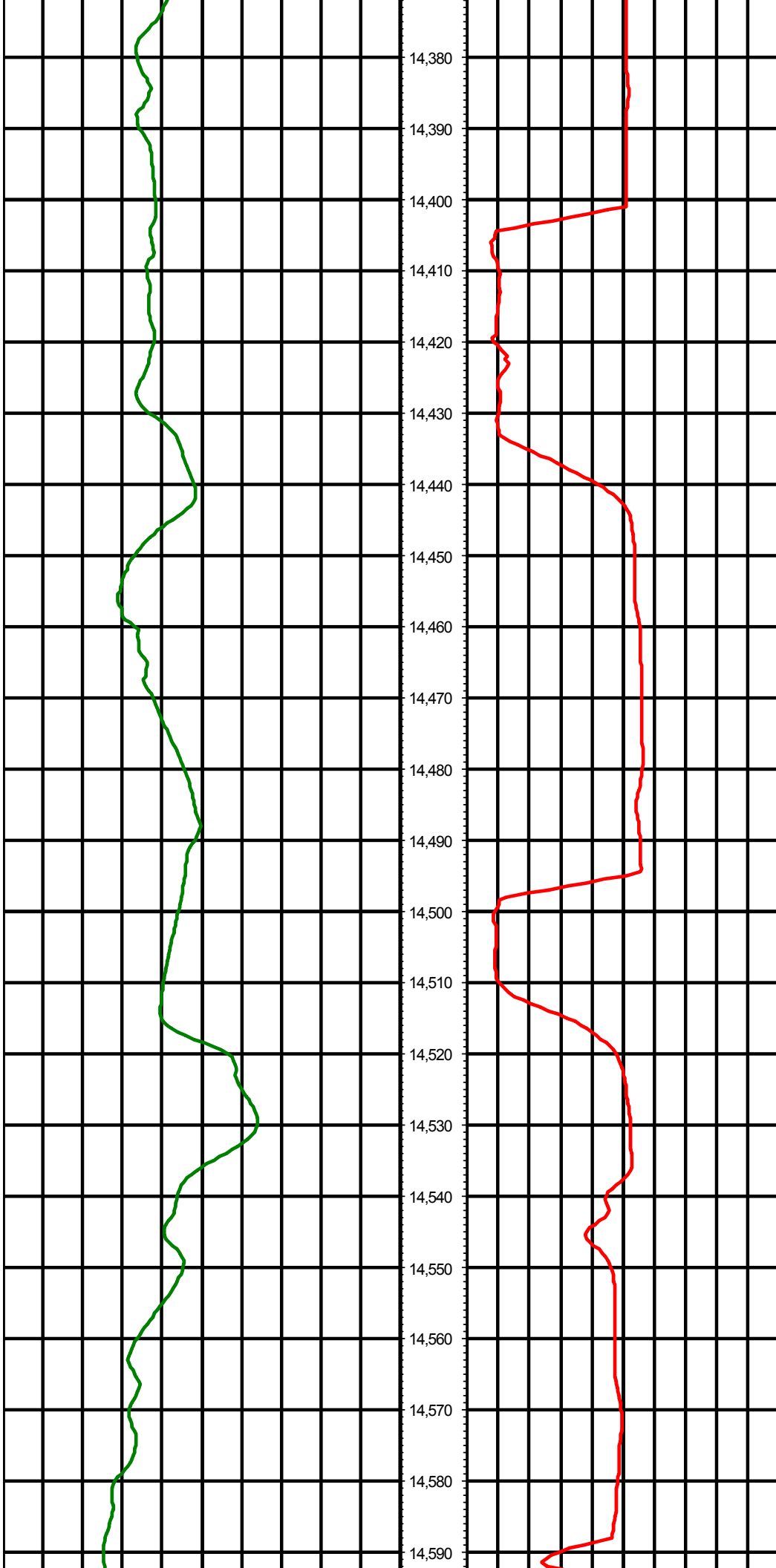


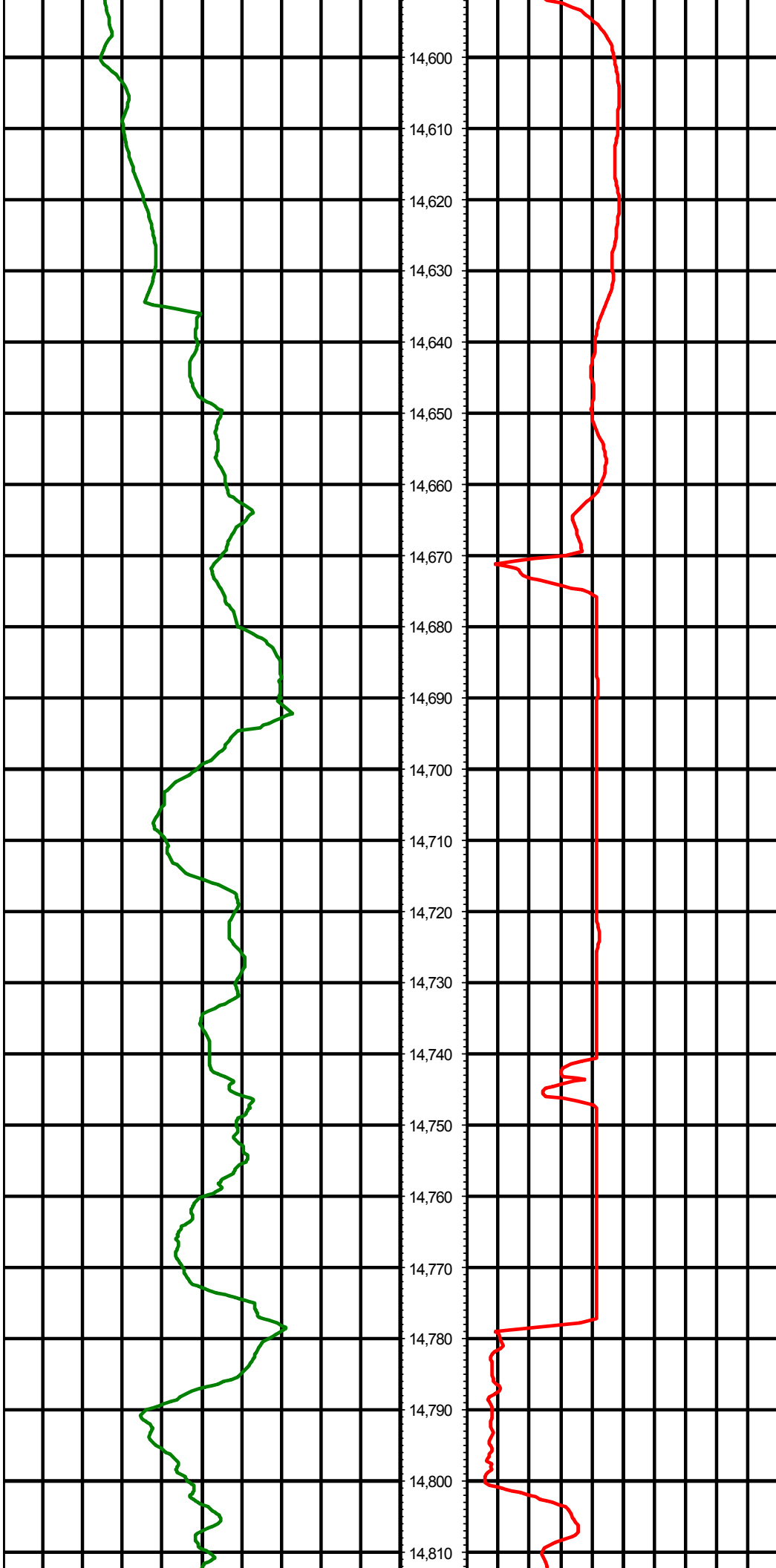








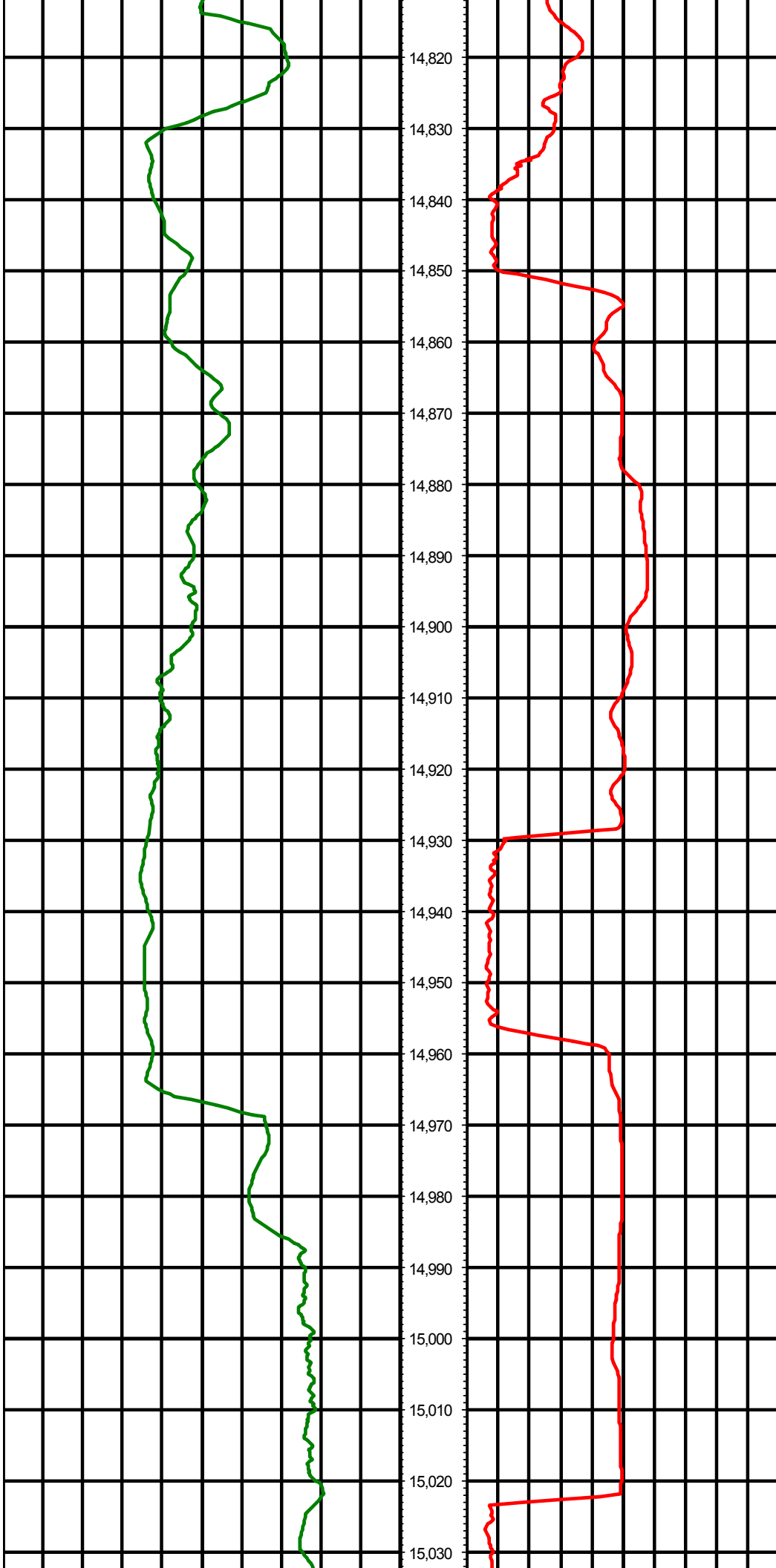




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MD: 14692.00 INC: 88.09 AZ: 176.39
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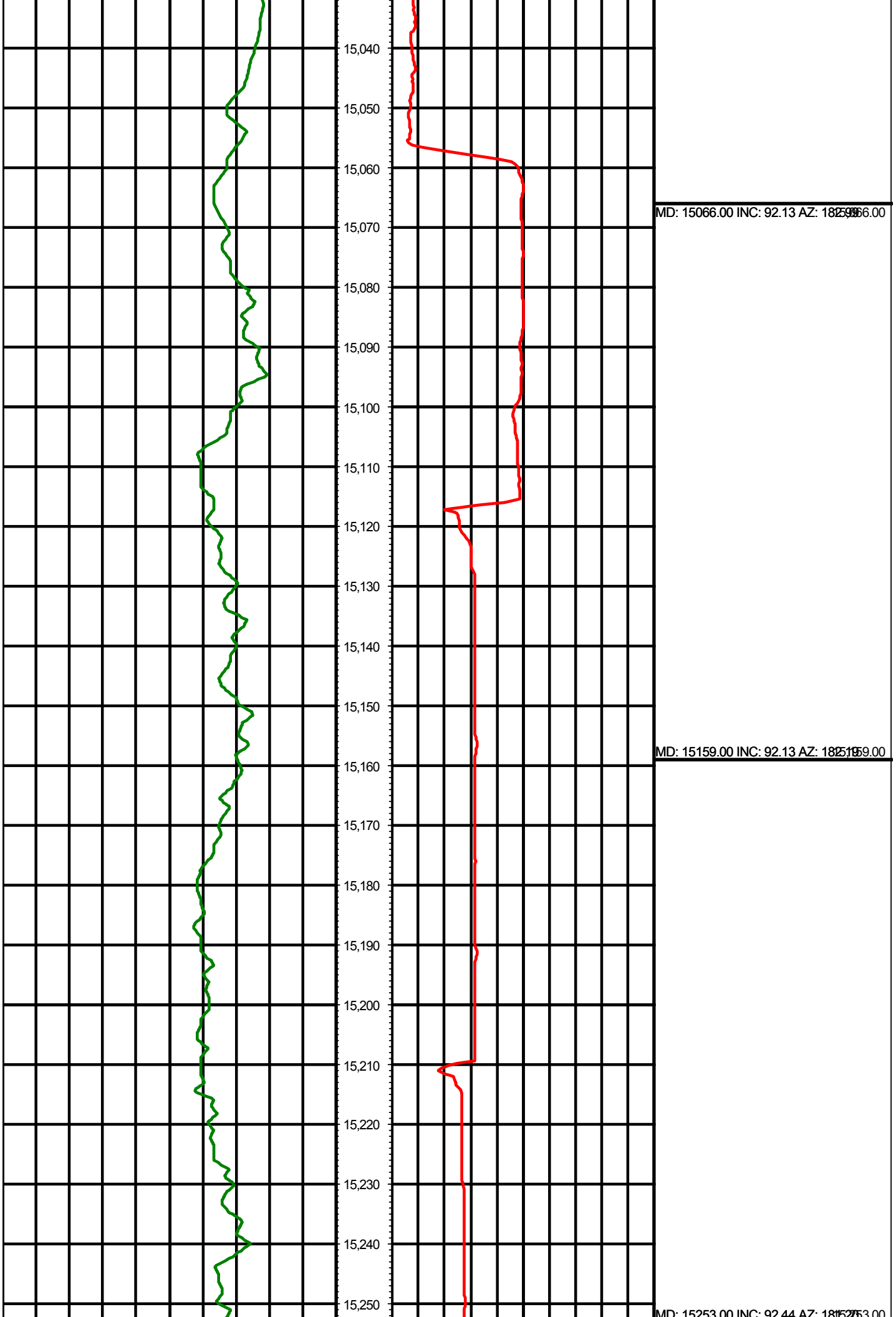
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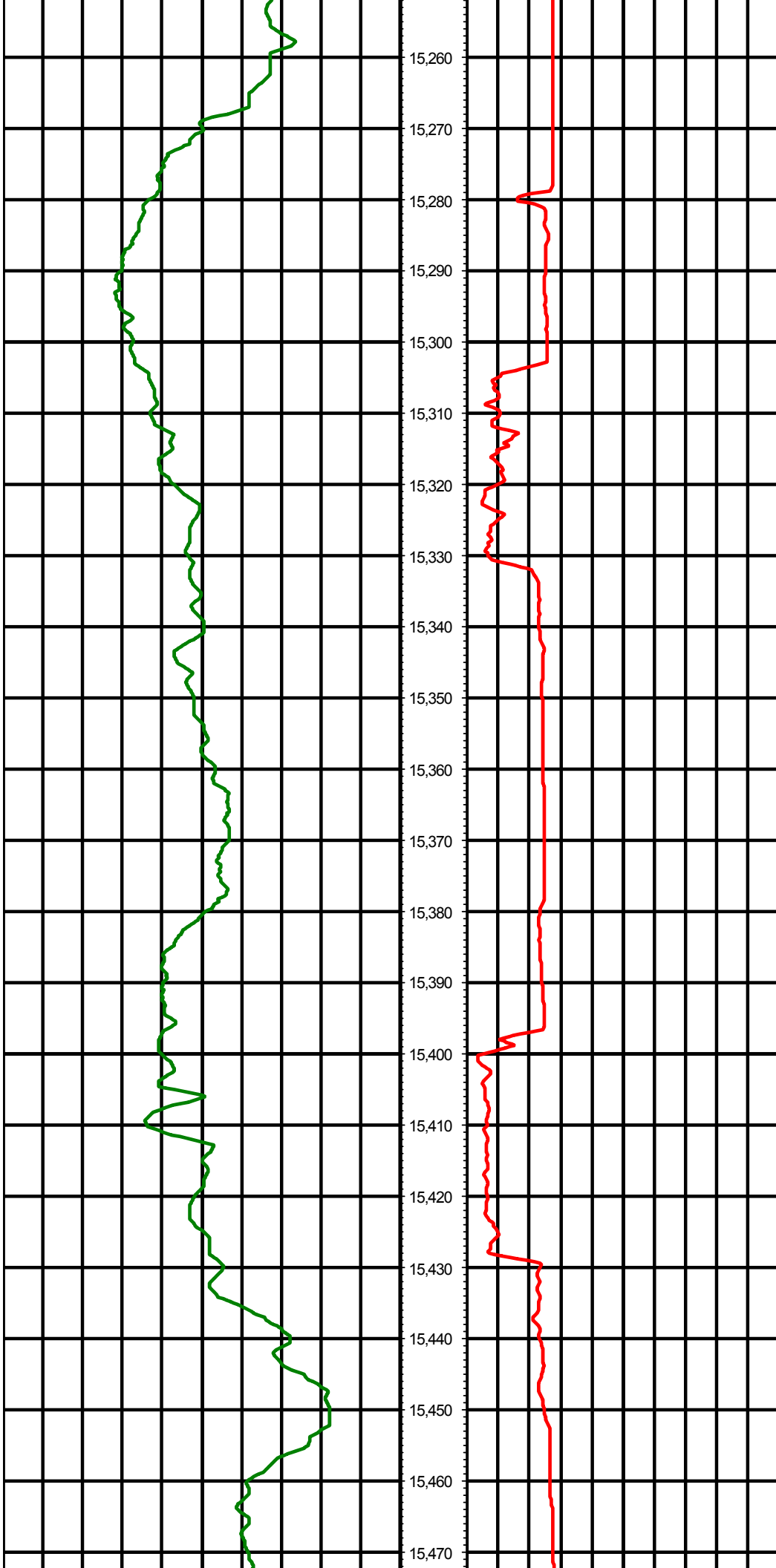
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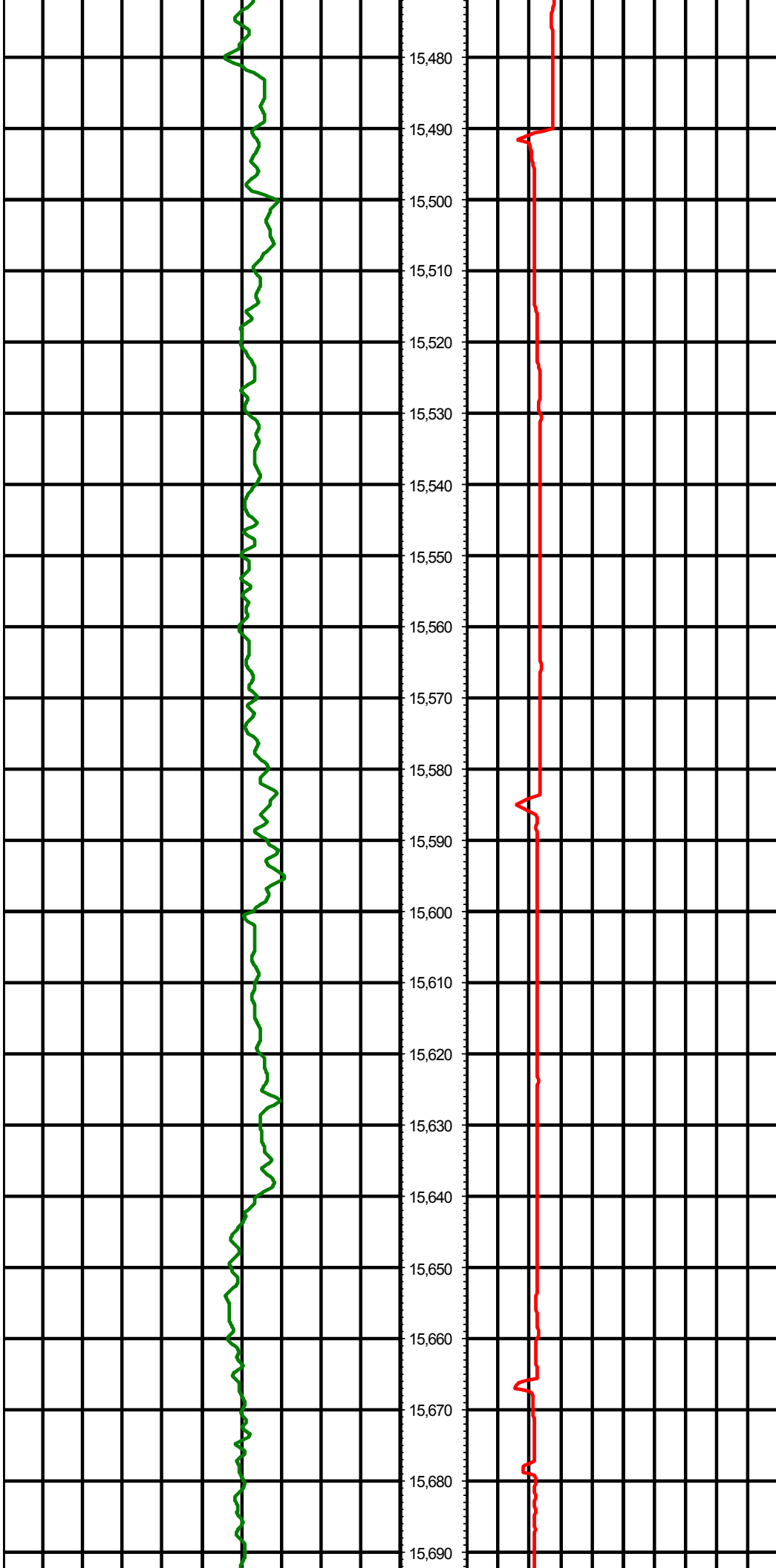
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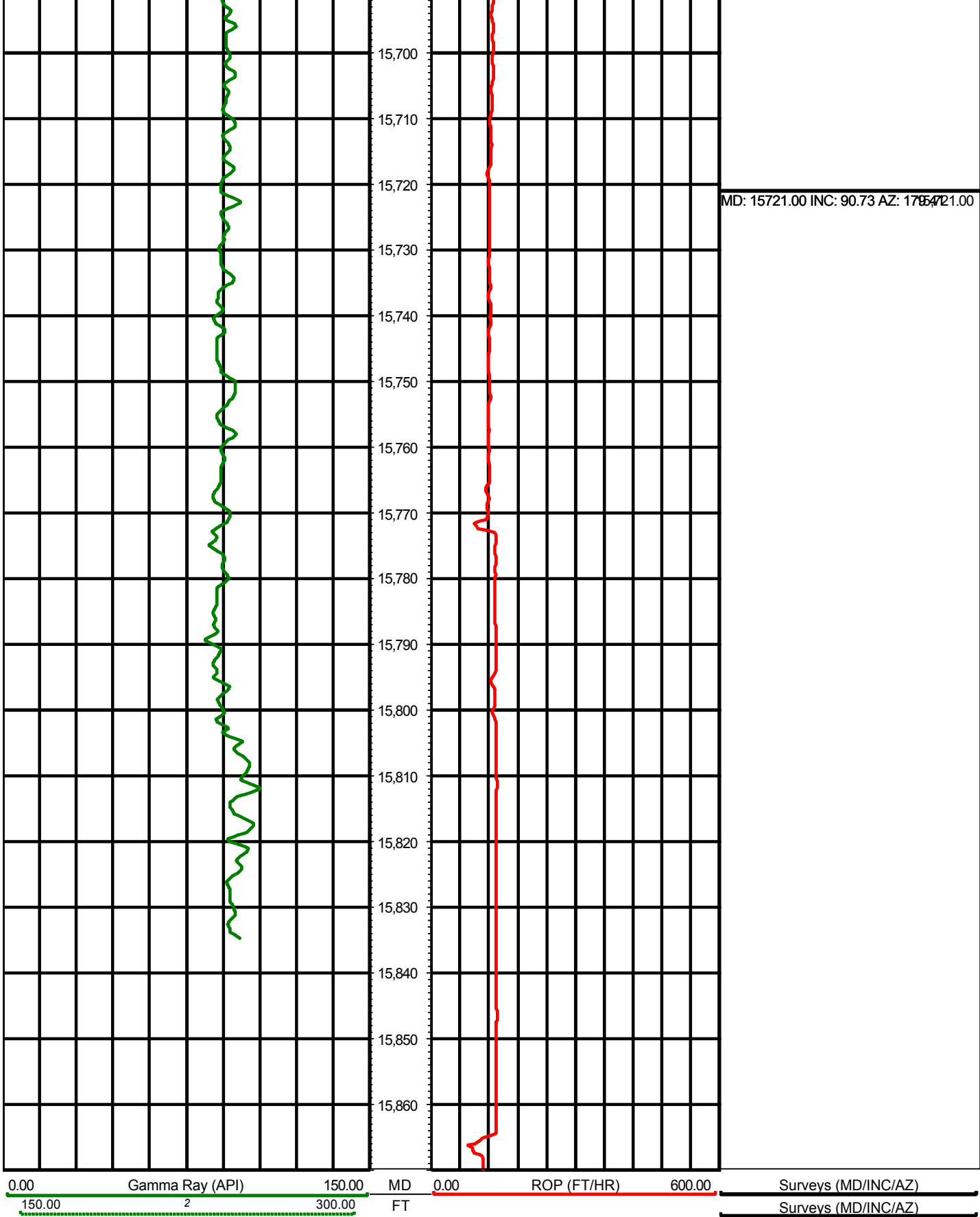
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MD: 15534.00 INC: 89.89 AZ: 179.534.00

MD: 15627.00 INC: 90.11 AZ: 179.527.00



0.00 Gamma Ray (API) 150.00
150.00 2 300.00

MD 0.00 ROP (FT/HR) 600.00
FT

Surveys (MD/INC/AZ)
Surveys (MD/INC/AZ)