



**HIGH RESOLUTION INDUCTION  
COMPENSATED DENSITY  
COMPENSATED NEUTRON**

**PIONEER**  
Pioneer Energy Services

Company: Extration Oil & Gas, LLC  
Well: Winder 9-41  
Field: Wattenberg  
County: Weld State: Colorado

Location: SHL: 651' FNL & 685' FEL NENE  
SEC 9 TWP 6N RGE 67W  
BHL: 50' FSL & 50' FWL SWSW  
SEC 3 TWP 6N RGE 67W  
API #: 05123361640000  
Other Services: GR, CAL  
Permanent Datum: GL Elevation: 4868  
Log Measured From: KB  
Drilling Measured From: KB  
Elevation: K.B: 4880, D.F: 4879, G.L: 4868

Date	October 29, 2013
Run Number	1
Depth Driller	7542'
Depth Logger	7540'
Bottom Logged Interval	7540'
Top Log Interval	Casing
Casing Driller	8-5/8" @ 675'
Casing Logger	687'
Bit Size	7-7/8"
Type Fluid in Hole	Chem Gel
Density / Viscosity	9.6 / 57
pH / Fluid Loss	10.0 / 7.2
Source of Sample	Flowline
Rm @ Meas. Temp	2.53 @ 56 F
Rmf @ Meas. Temp	2.02 @ 56 F
Rmc @ Meas. Temp	3.04 @ 56 F
Source of Rmf / Rmc	Measure / Calc
Rm @ BHT	0.68 @ 209 F
Time Circulation Stopped	0700
Time Logger on Bottom	1700
Maximum Recorded Temperature	209 F
Equipment Number	49
Location	Brighton, CO
Recorded By	Kelly Keaver
Witnessed By	Dustin Dyk
	Jesse Silva

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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, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

**Comments**

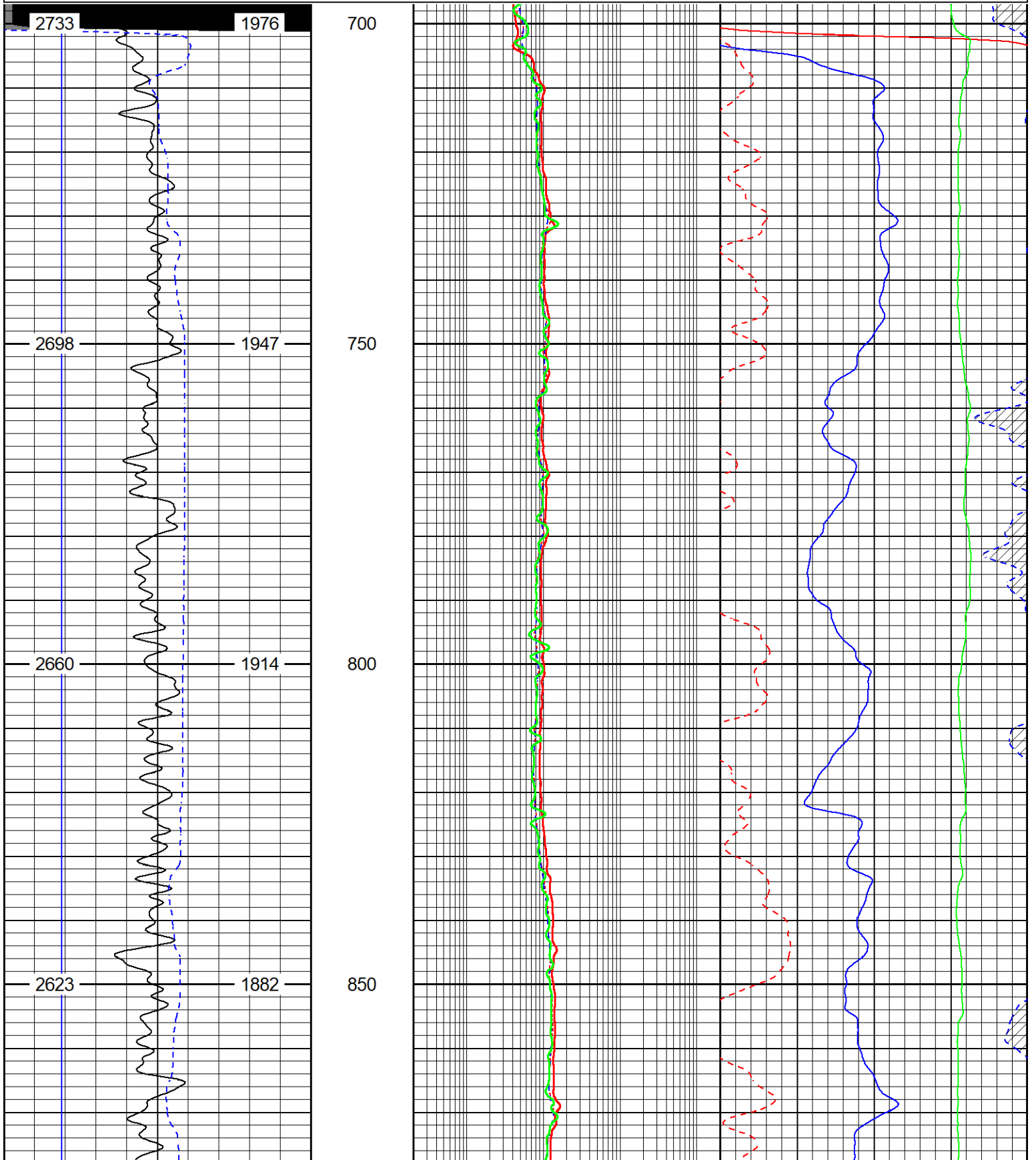
Annular volume calculated for 4.5" casing  
Fort Drilling Rig 5  
Thank you for using Pioneer Energy Services

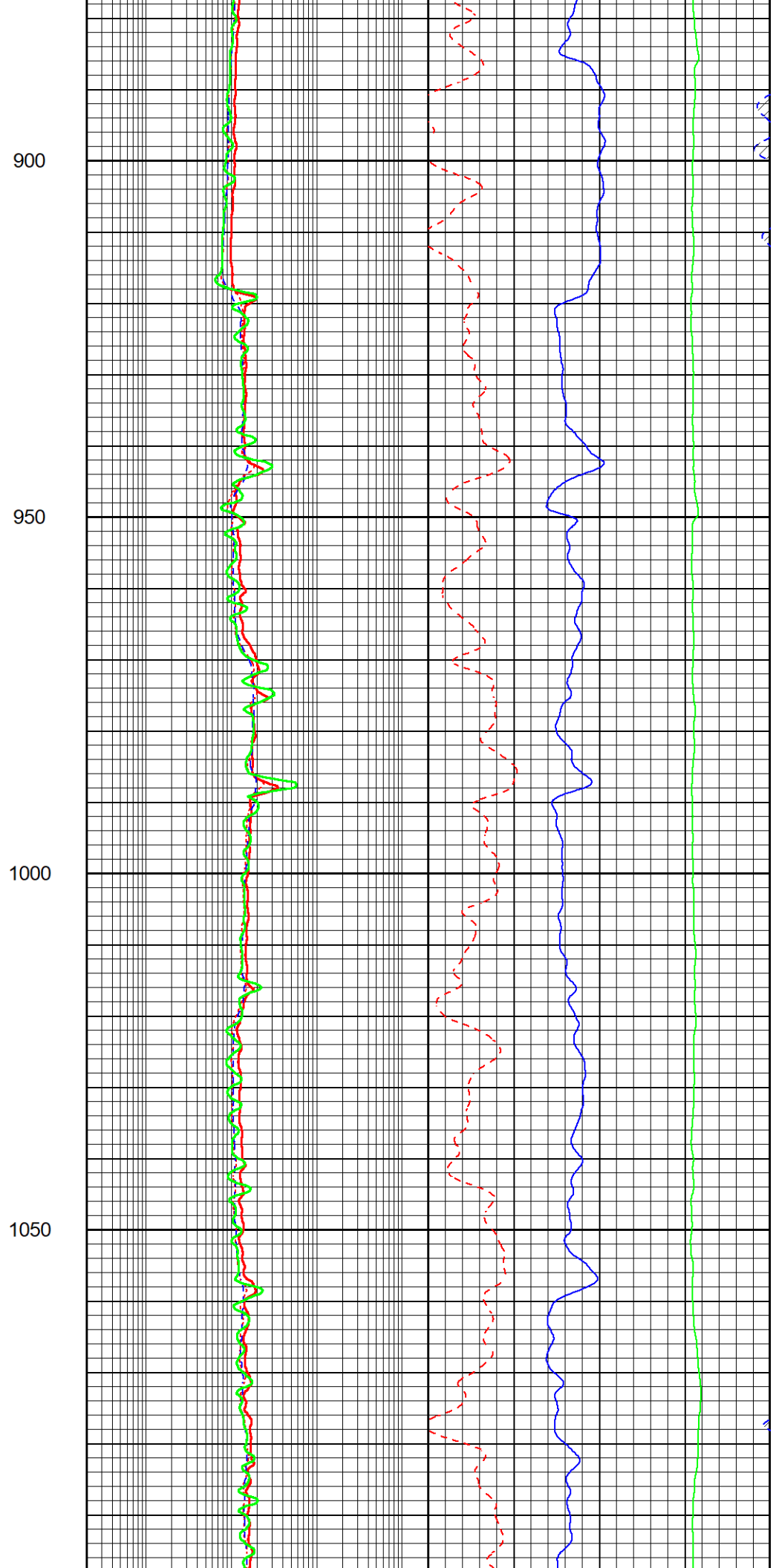
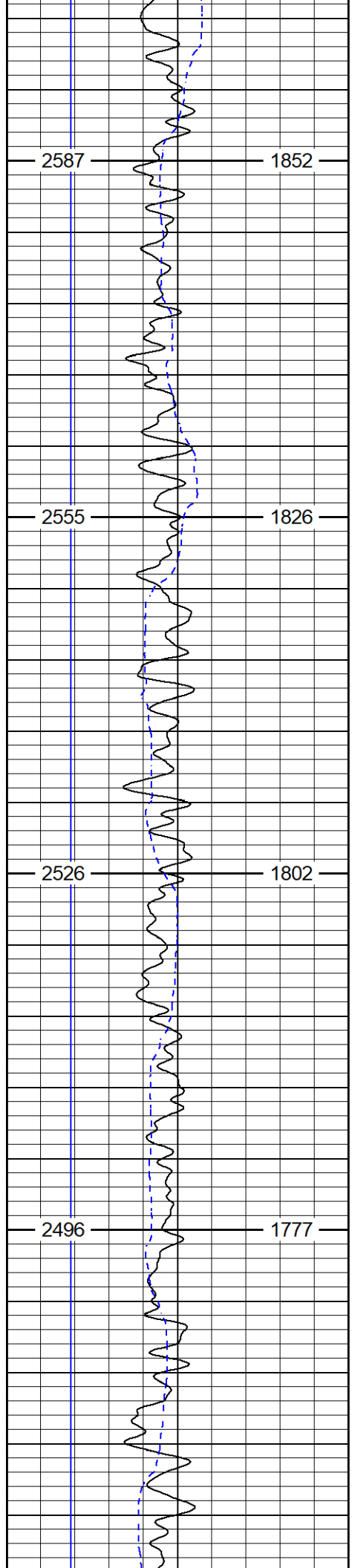


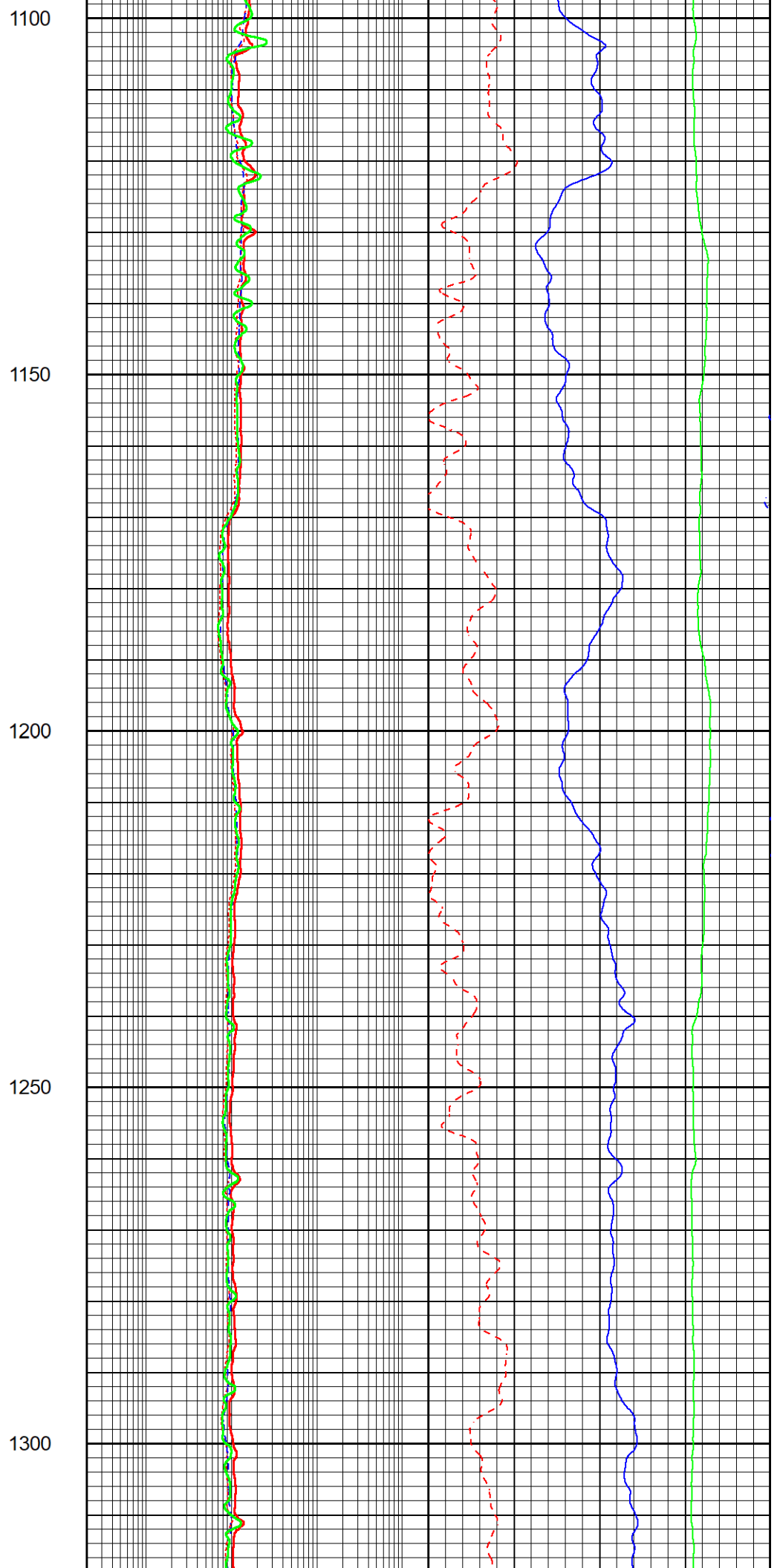
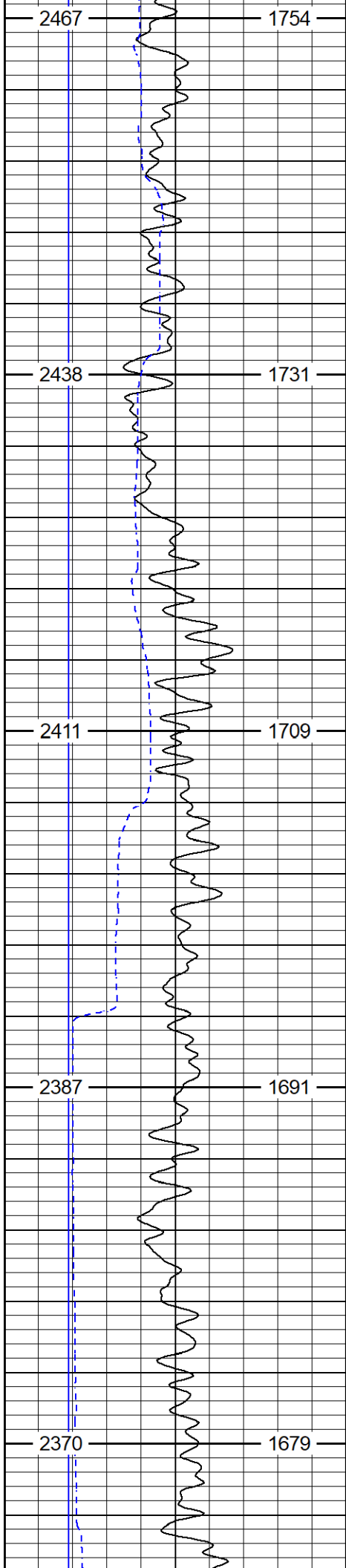
**MAIN PASS**

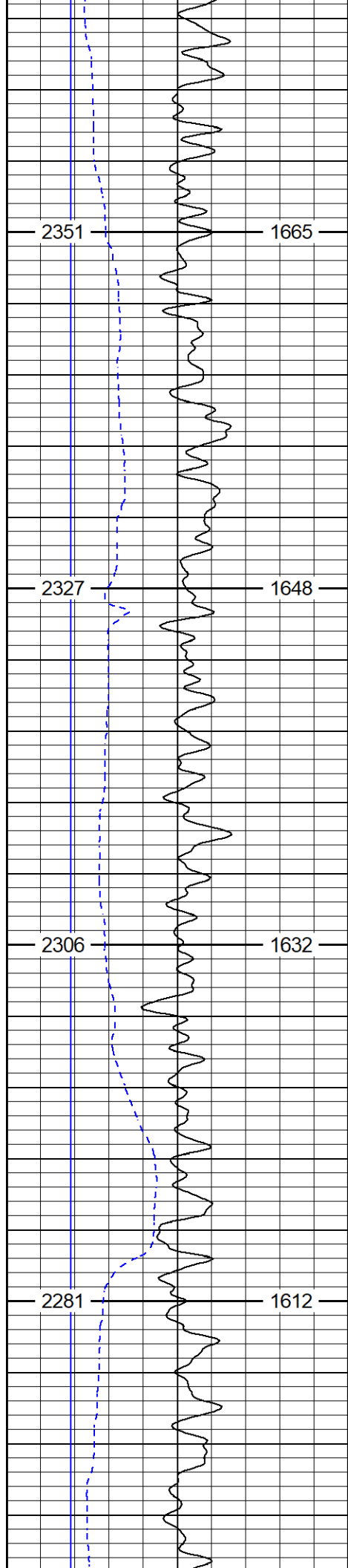
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 Dataset Pathname    main  
 Presentation Format   EXTRAC~1  
 Dataset Creation    Thu Sep 19 09:31:16 2019  
 Charted by         Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200	0.2	RLL3 (Ohm-m)	2000	40	Density Porosity (pu)	0
6	Caliper (in)	16	0.2	Medium Induction (Ohm-m)	2000	40	CNPOR (pu)	0
2.875	DCAL (in)	7.875	0.2	Deep Induction (Ohm-m)	2000		RHOC	
			0.2	RT (Ohm-m)	2000		-0.5 (g/cc)	0.5







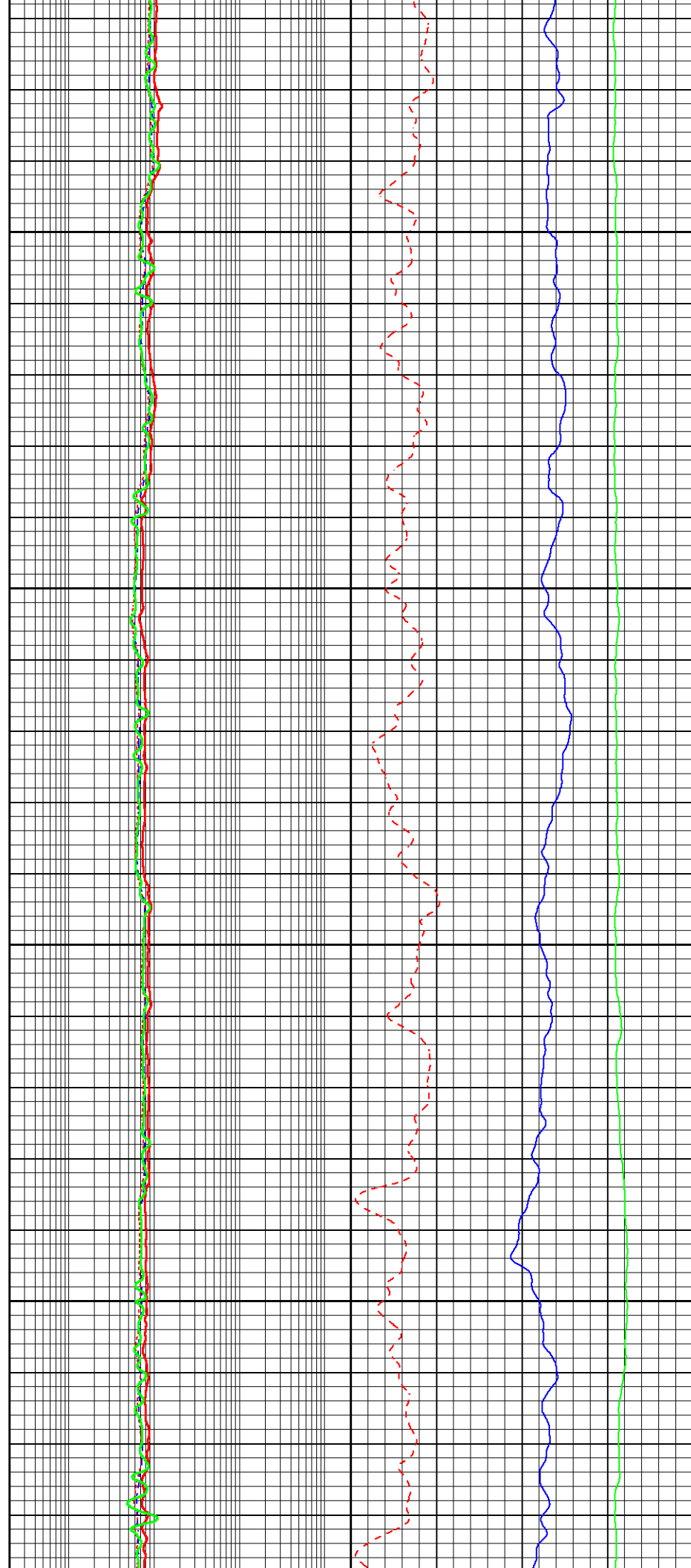


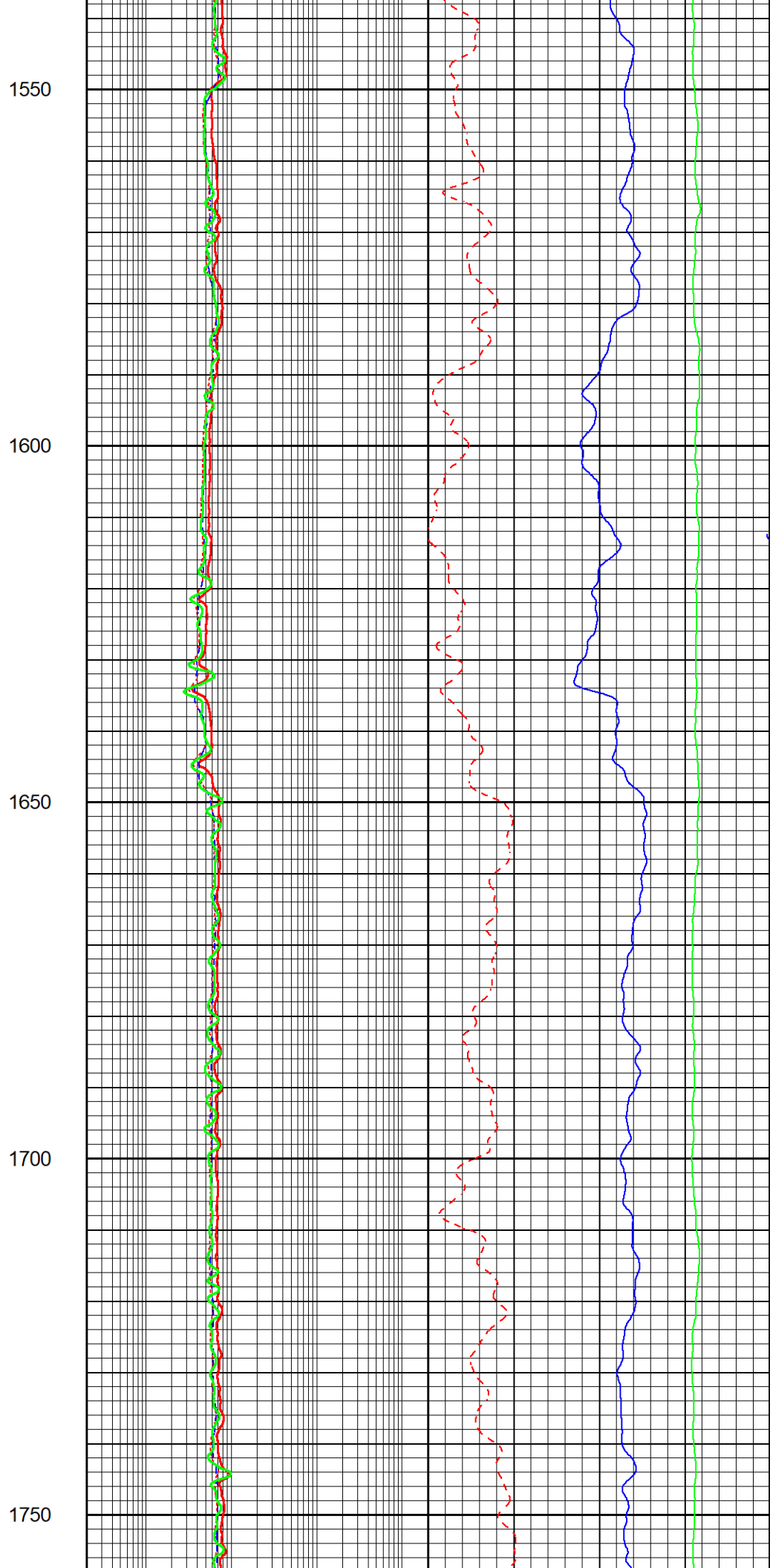
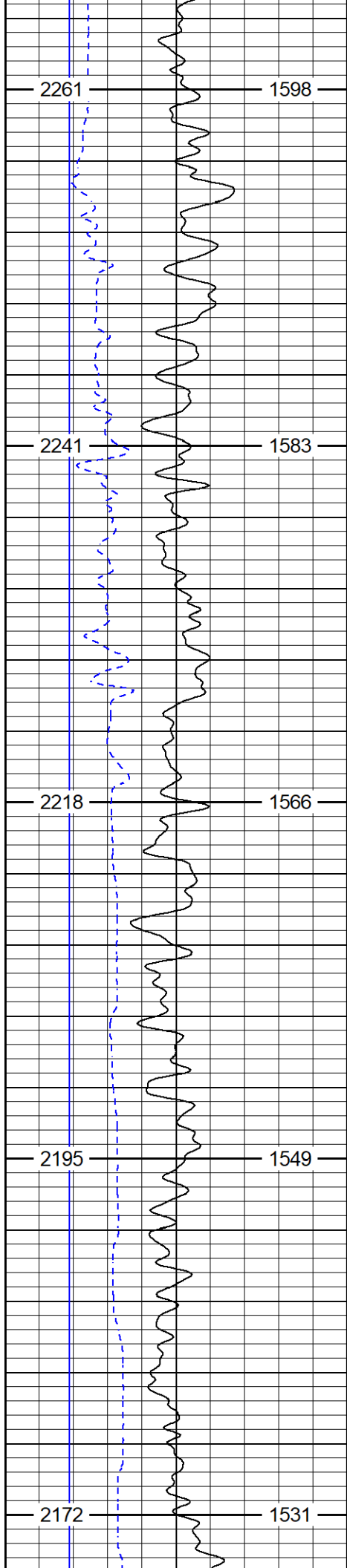
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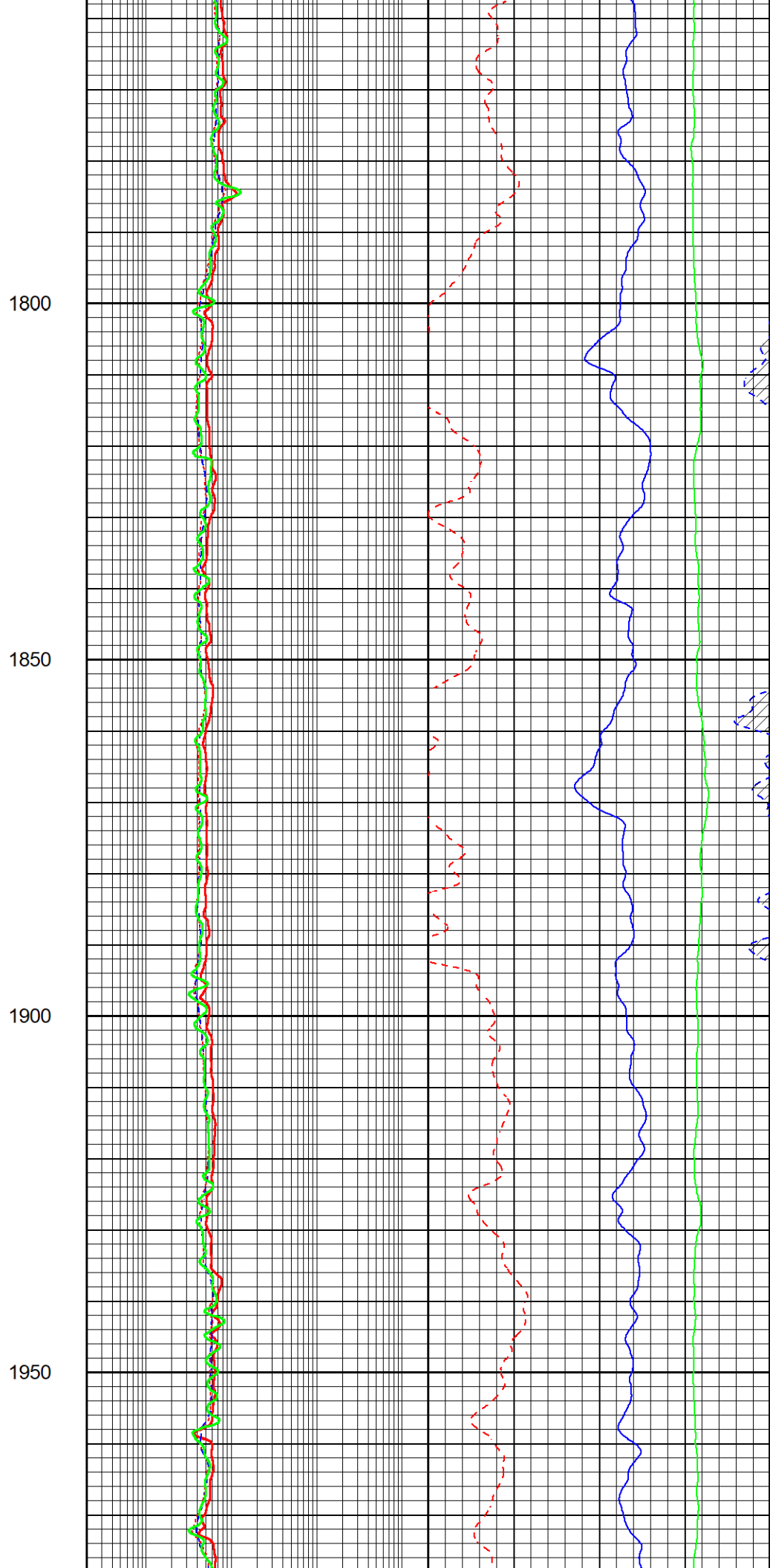
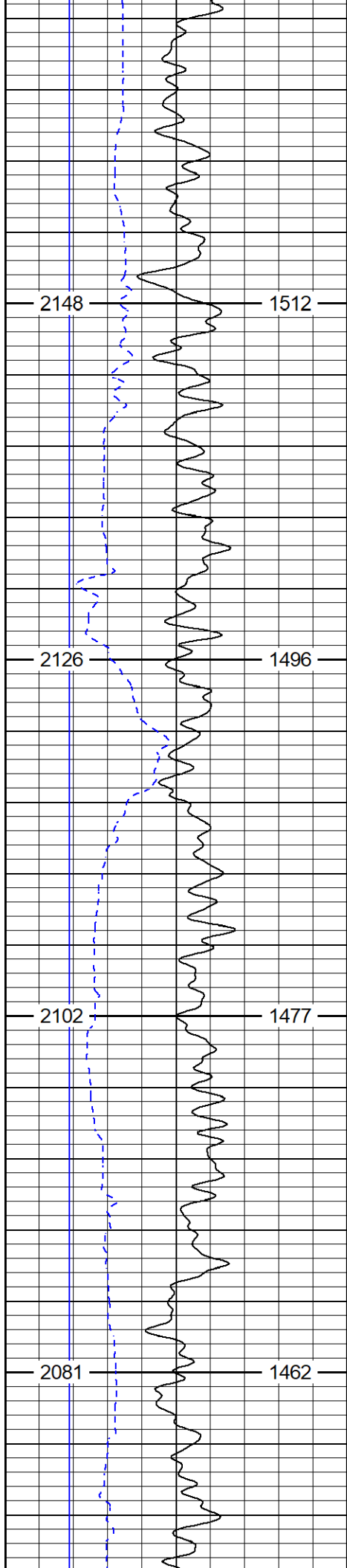
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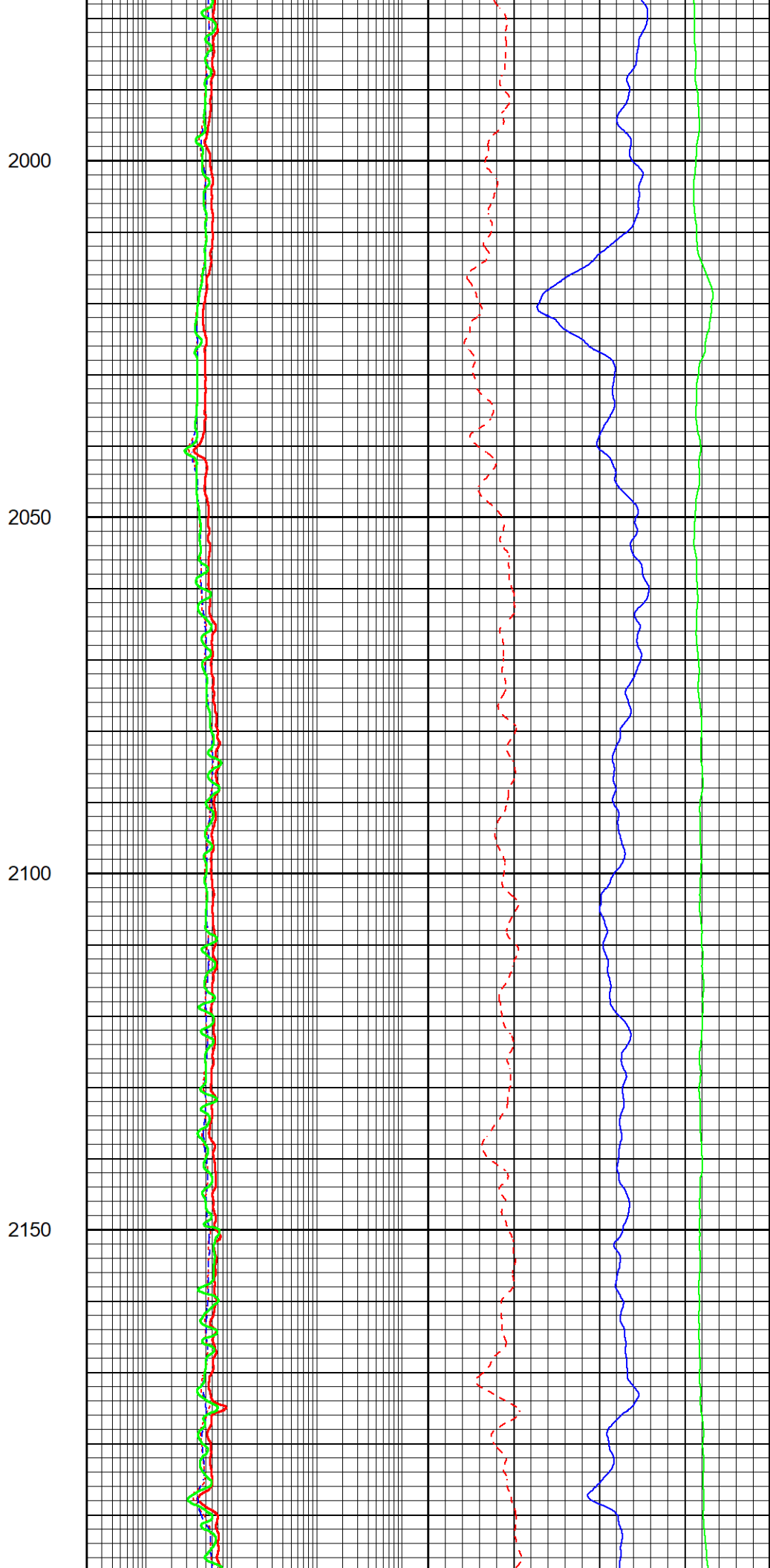
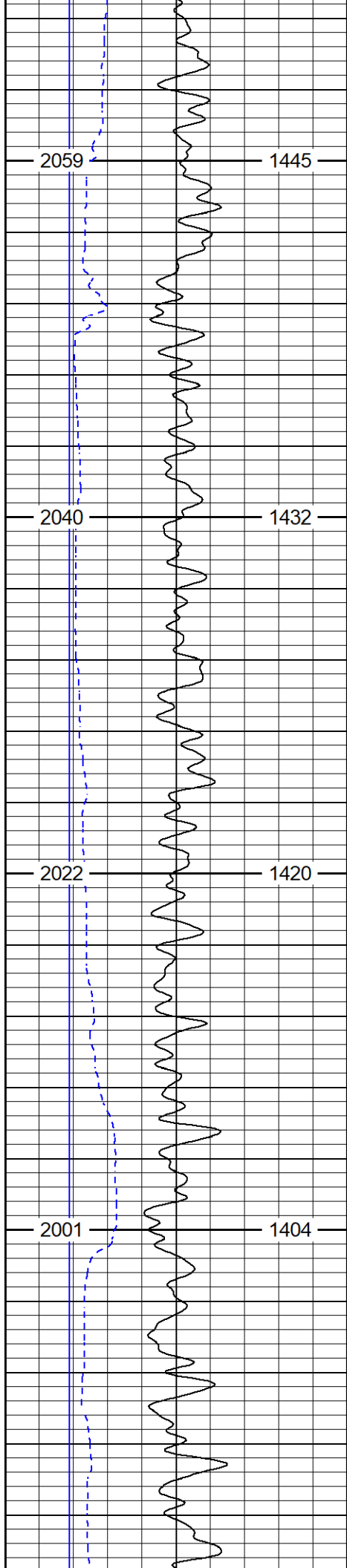
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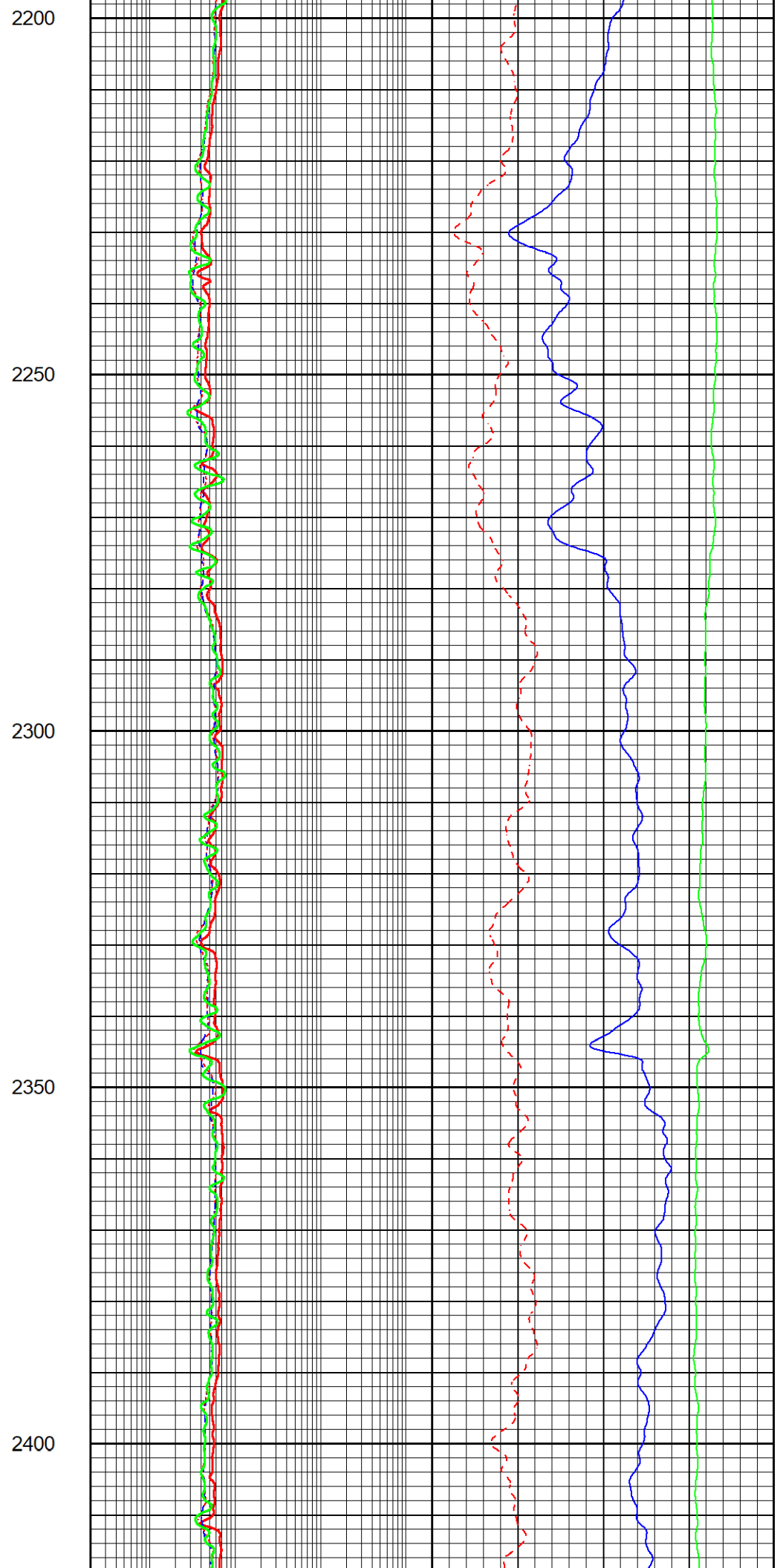
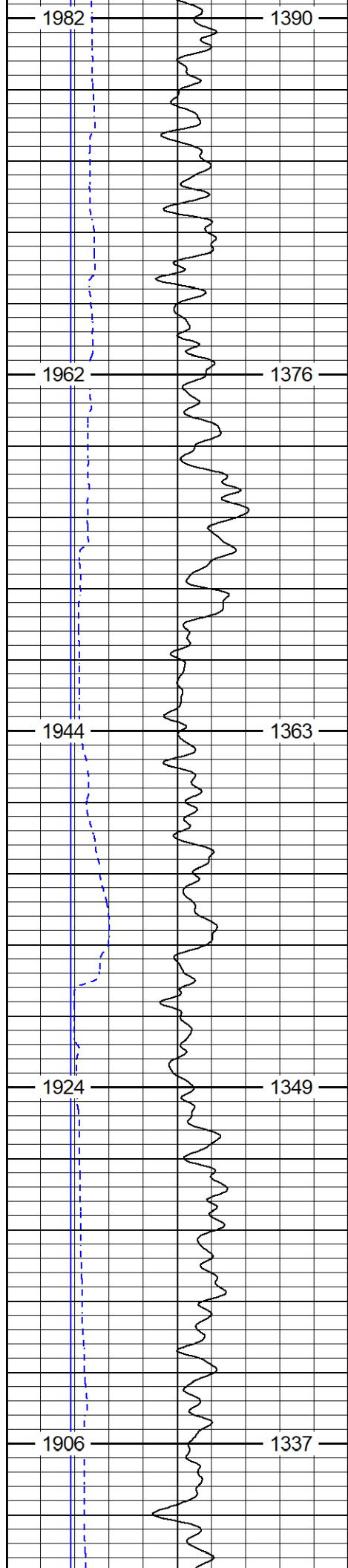
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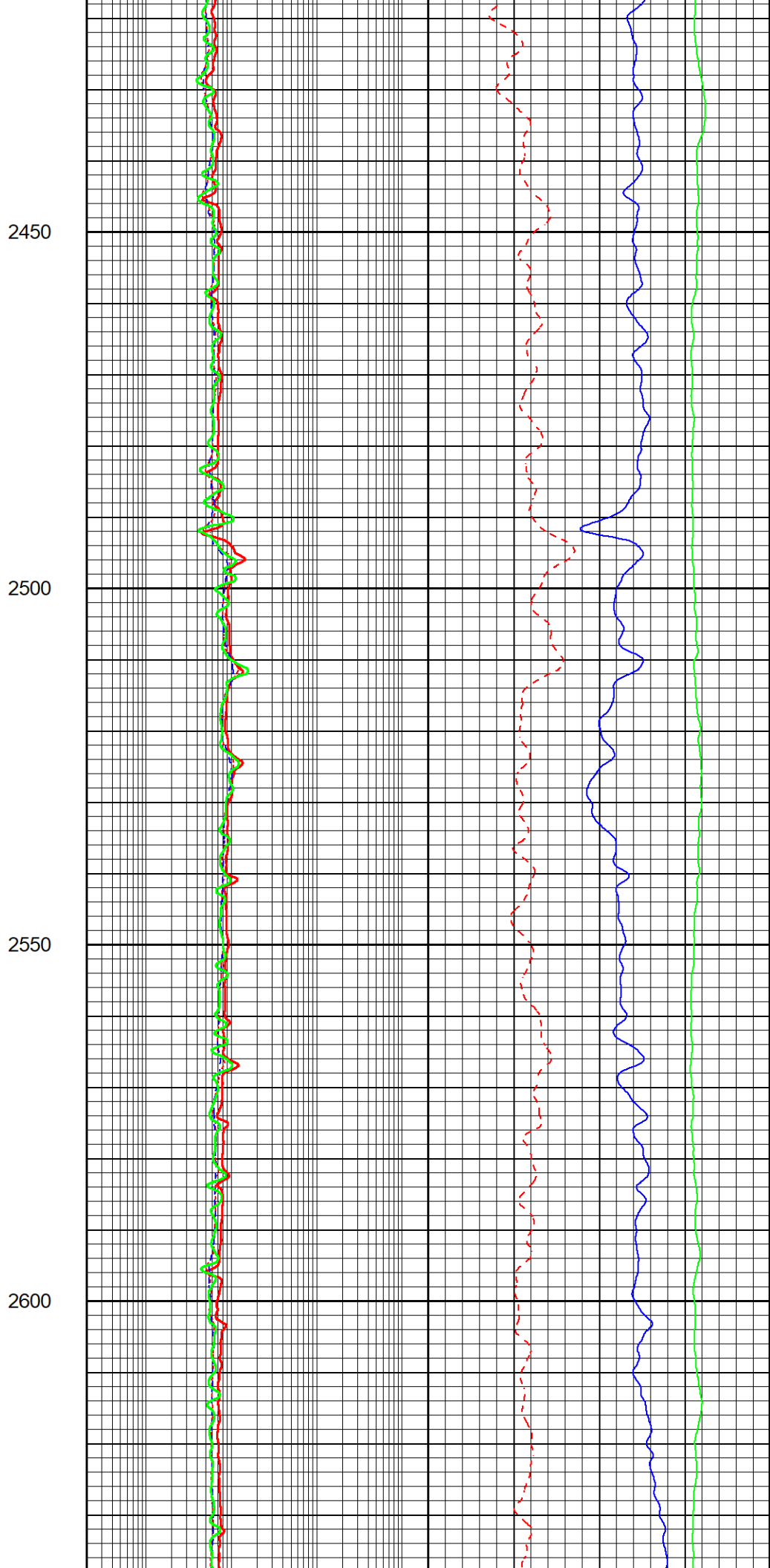
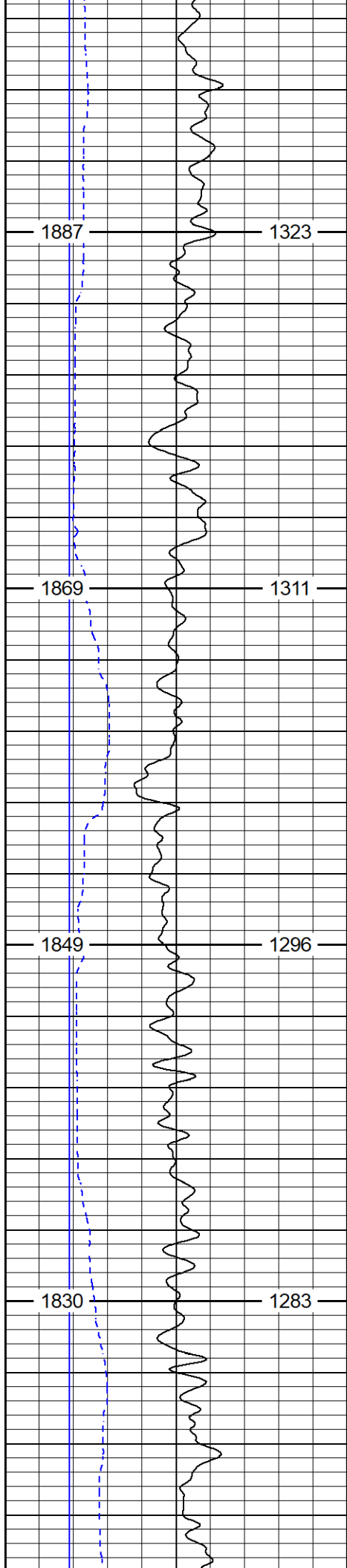


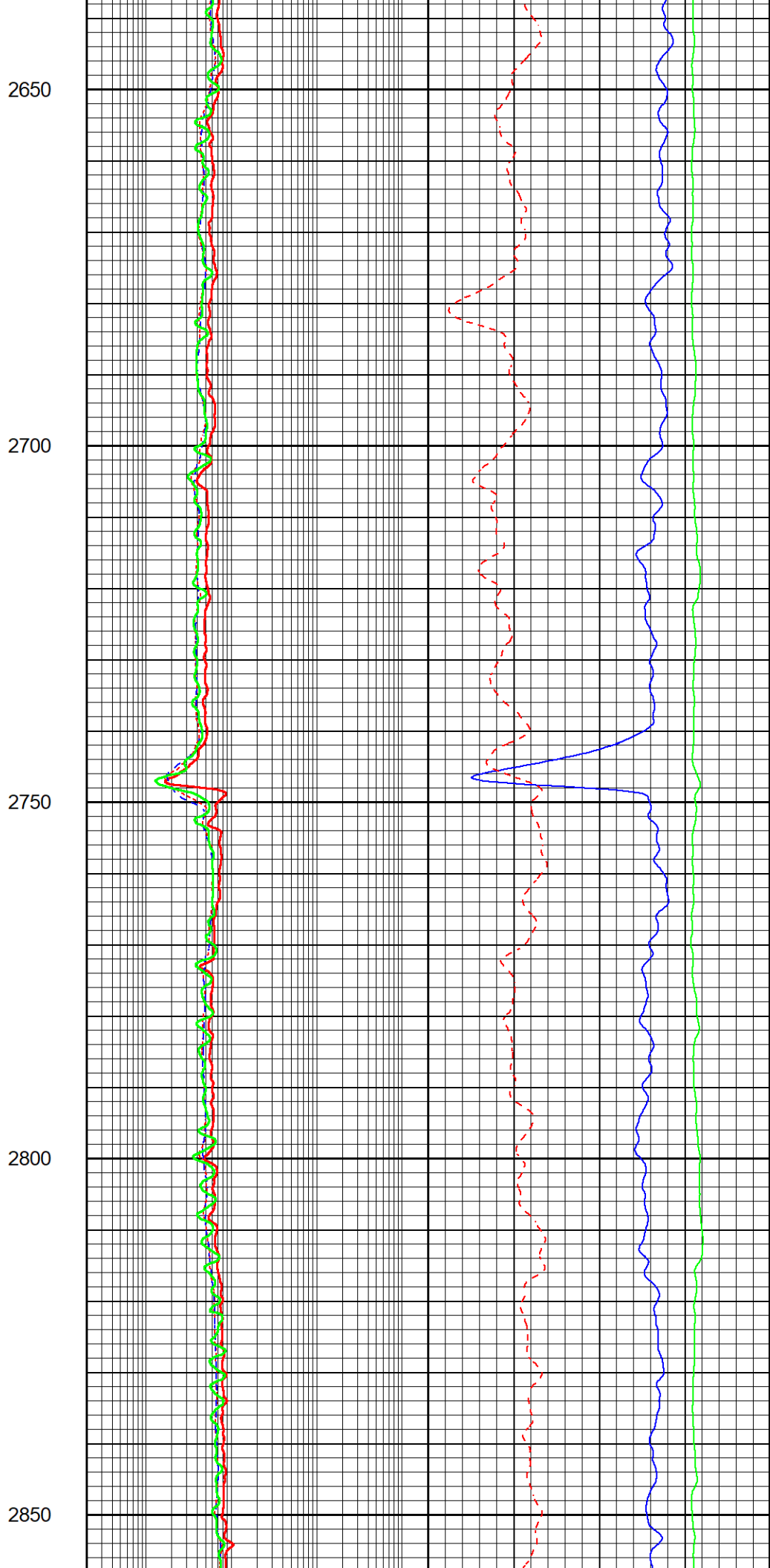
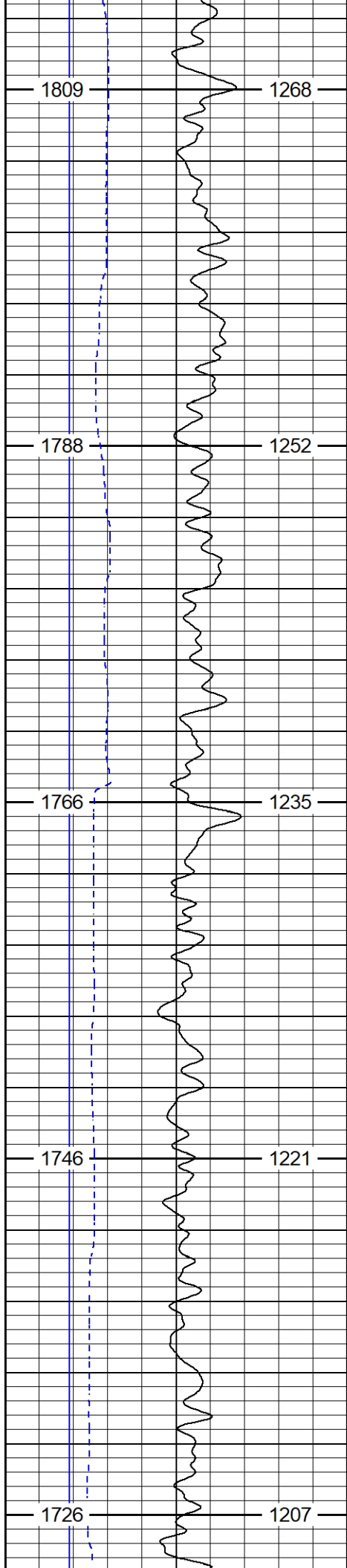


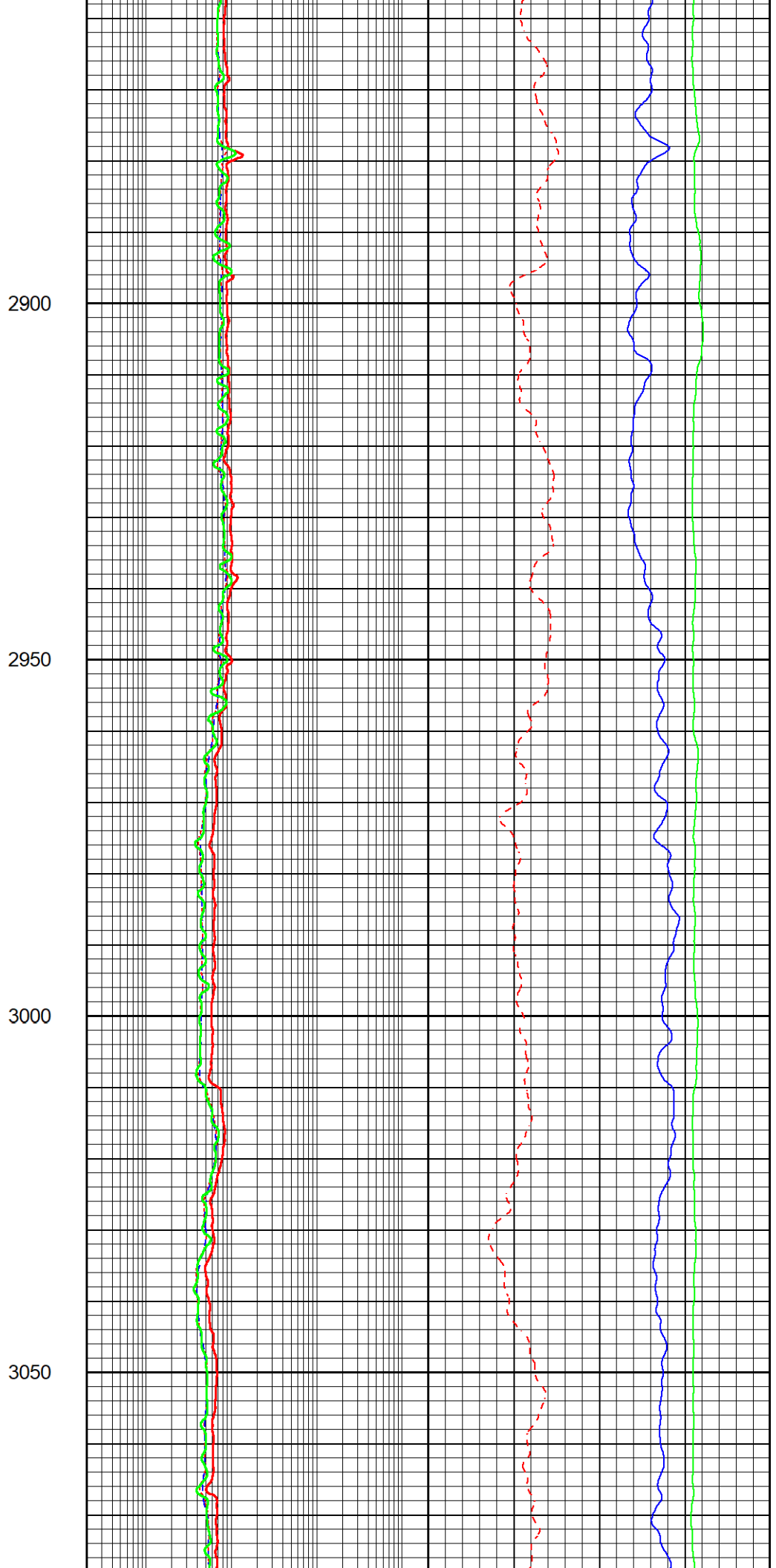
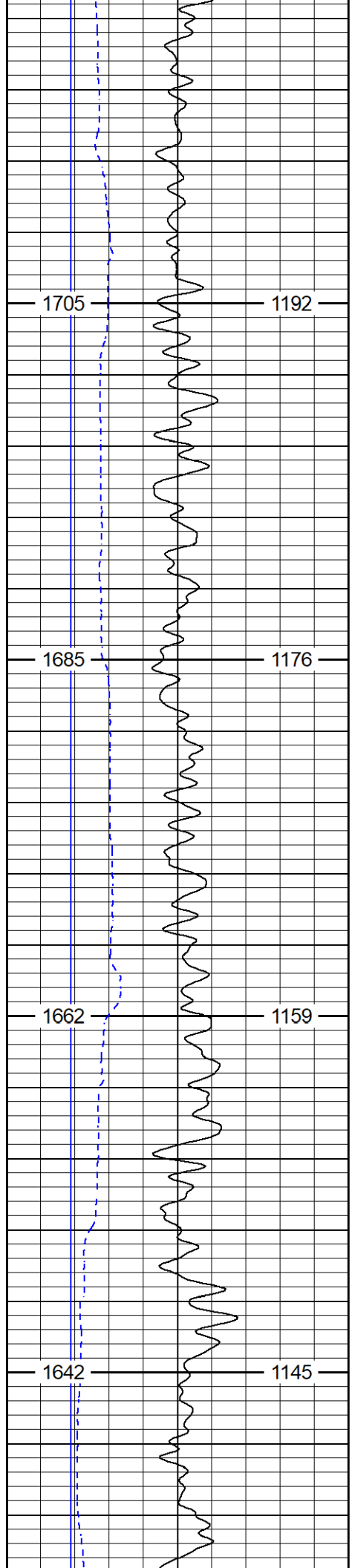


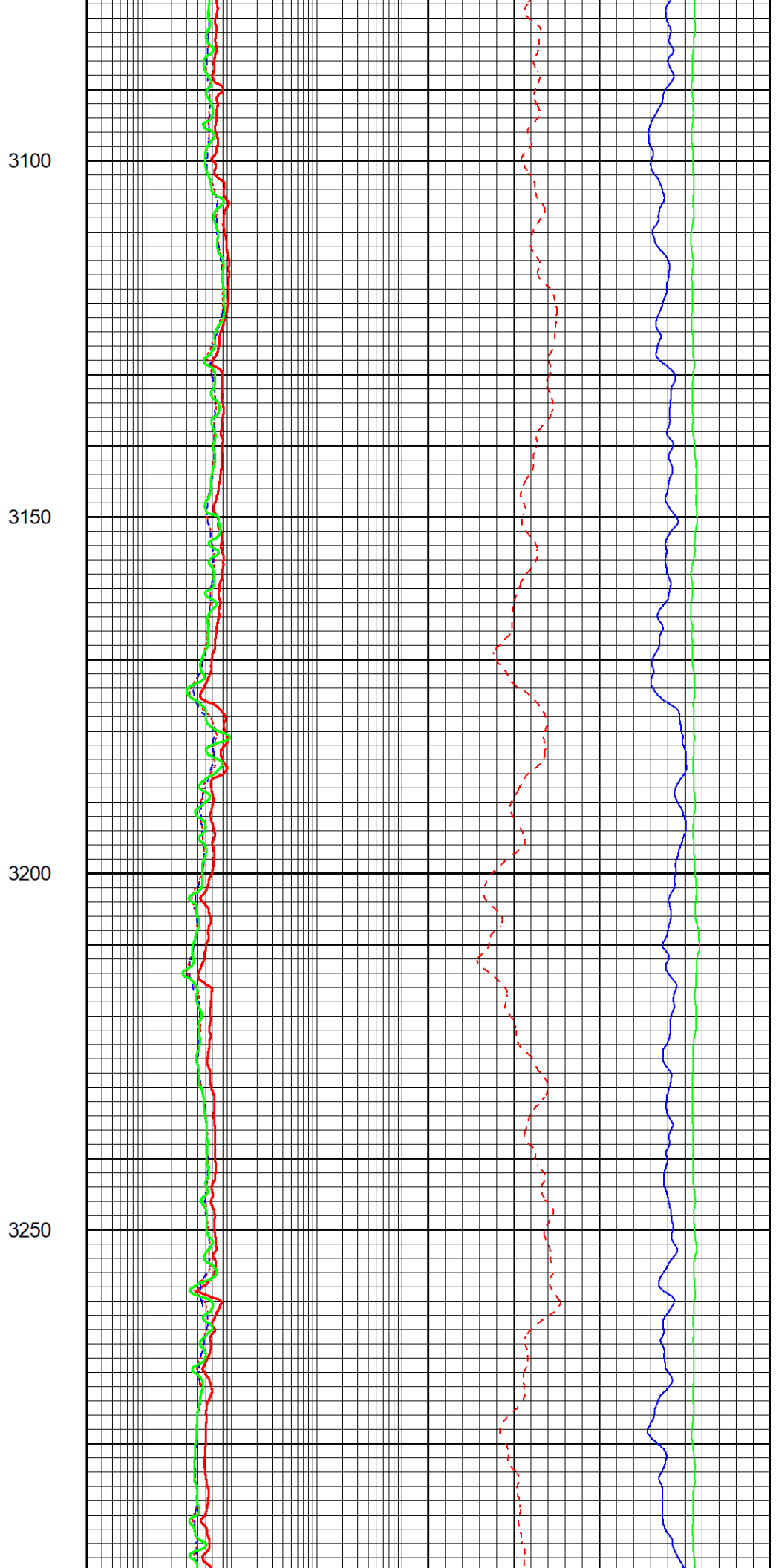
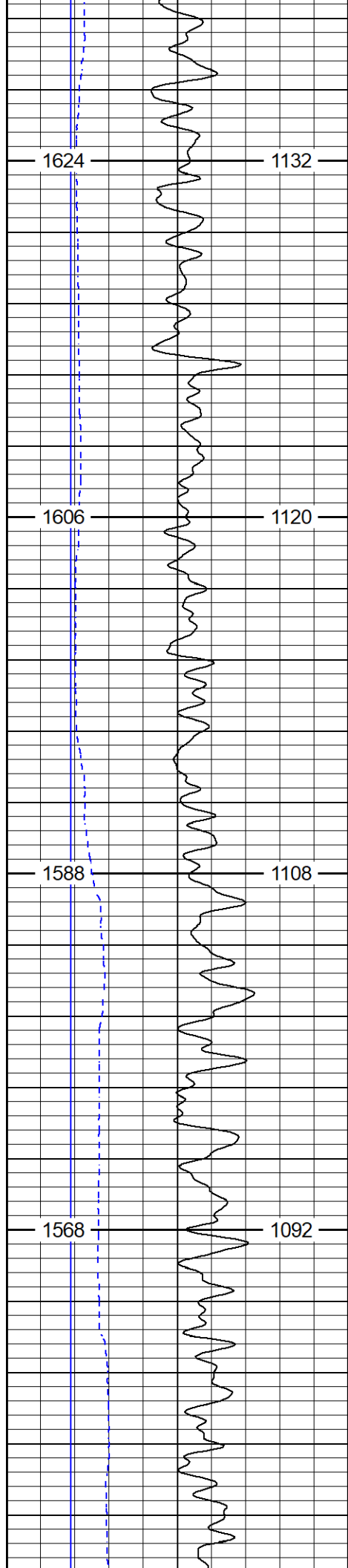


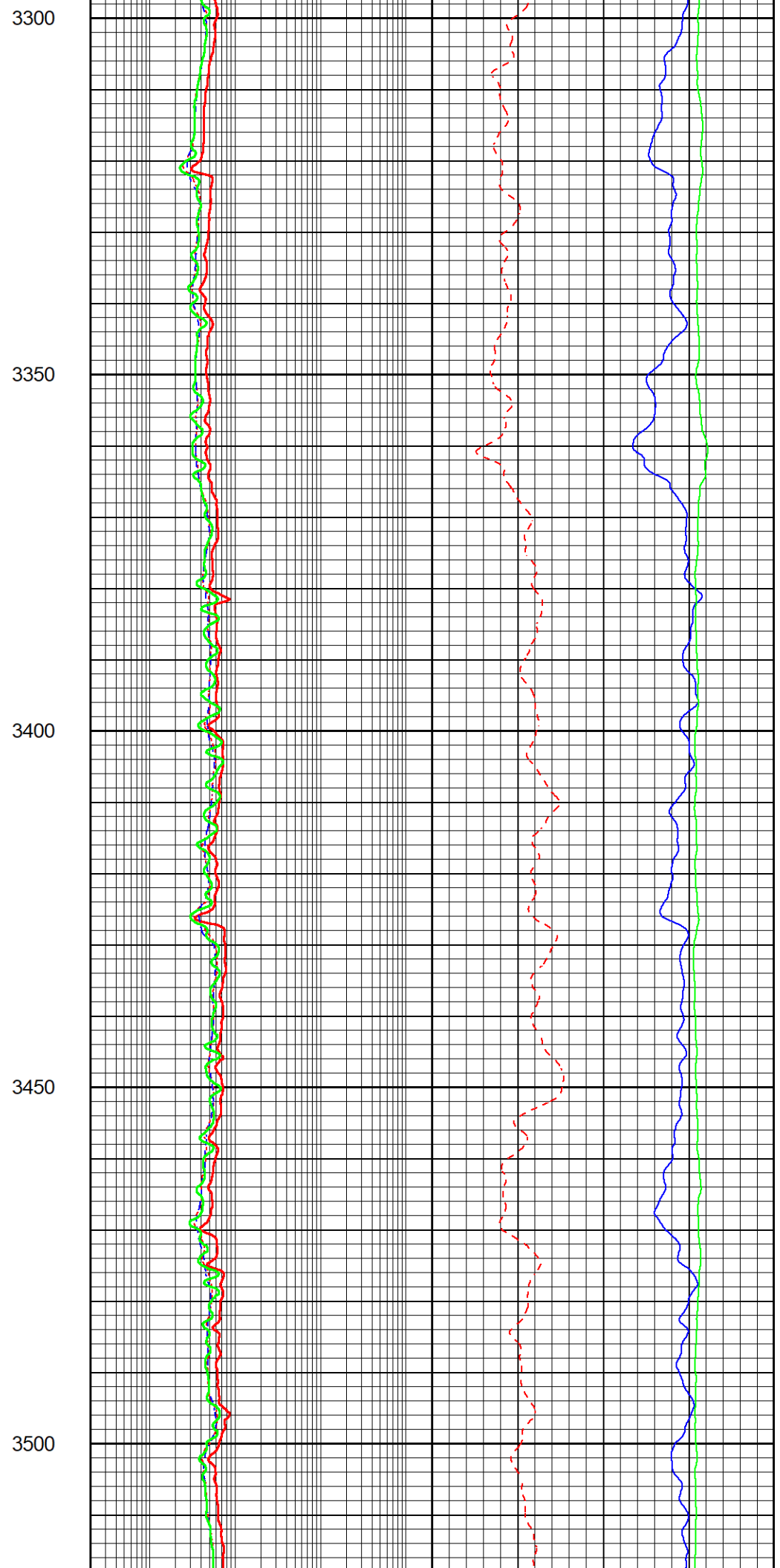
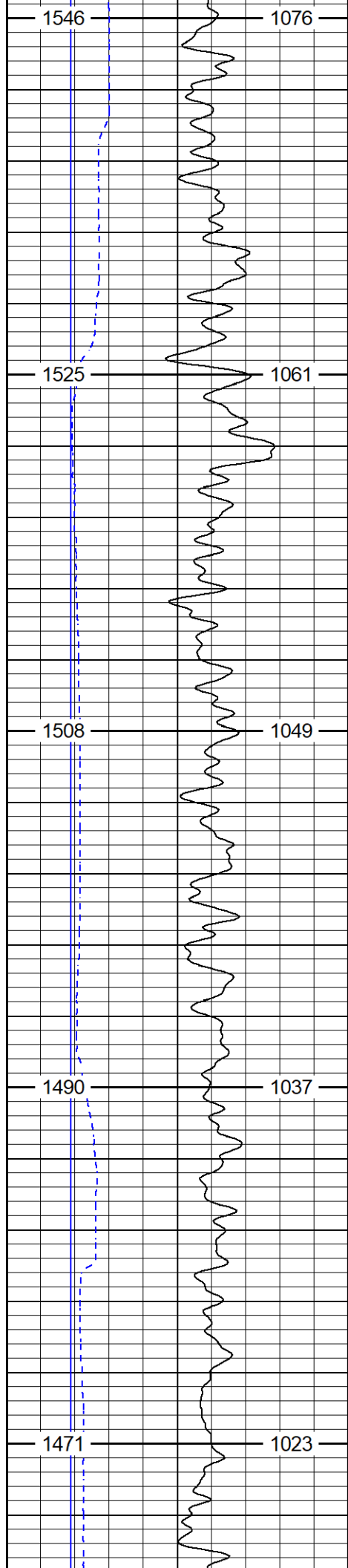


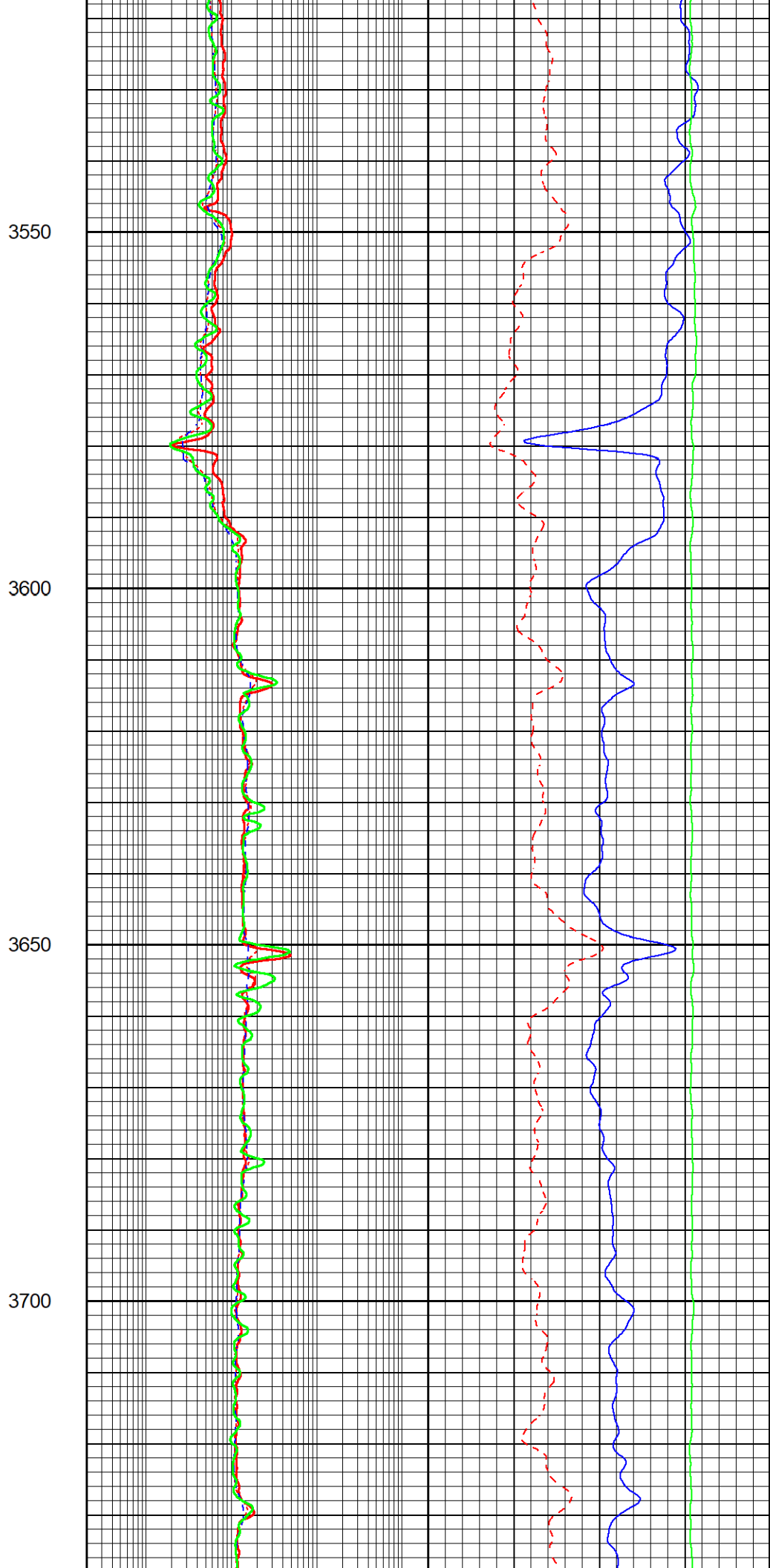
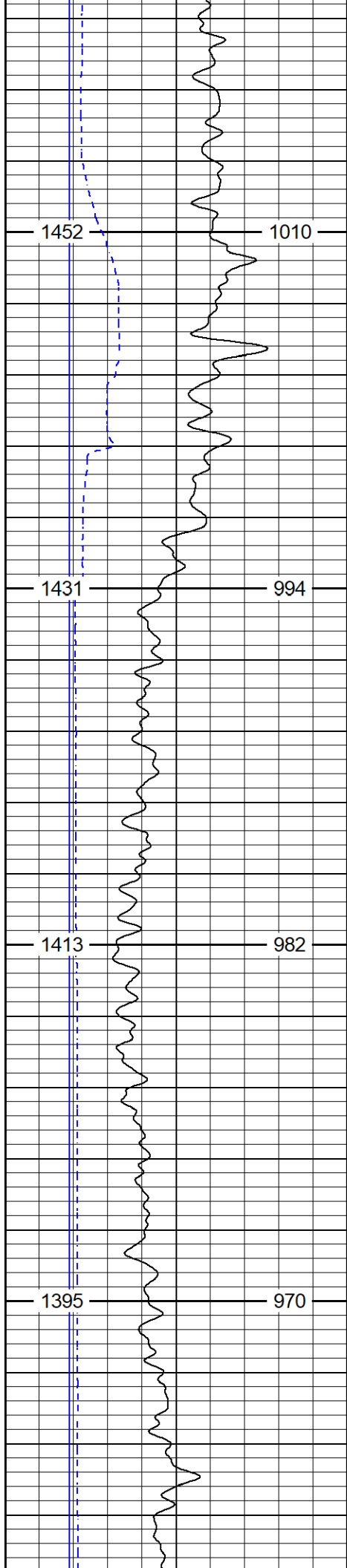


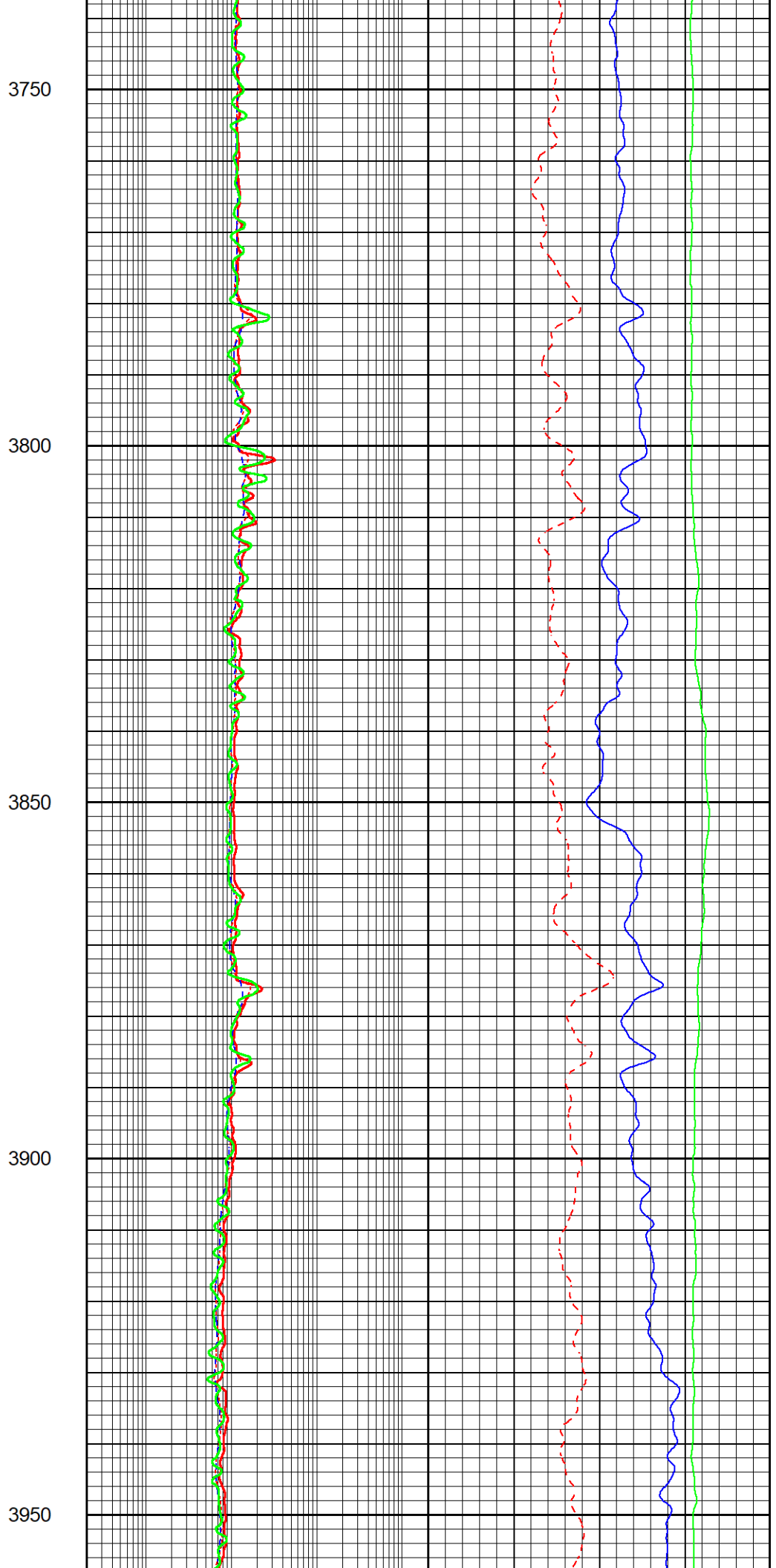
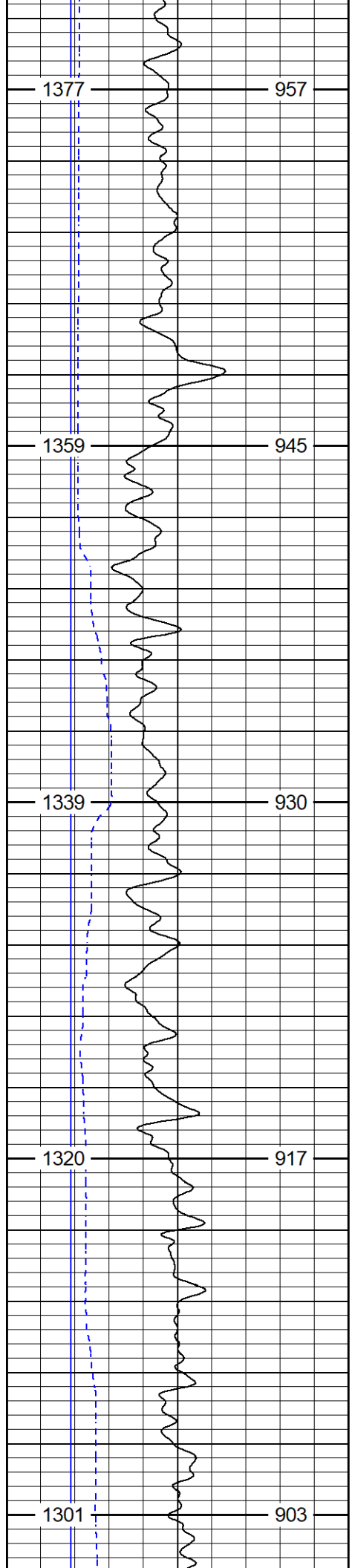


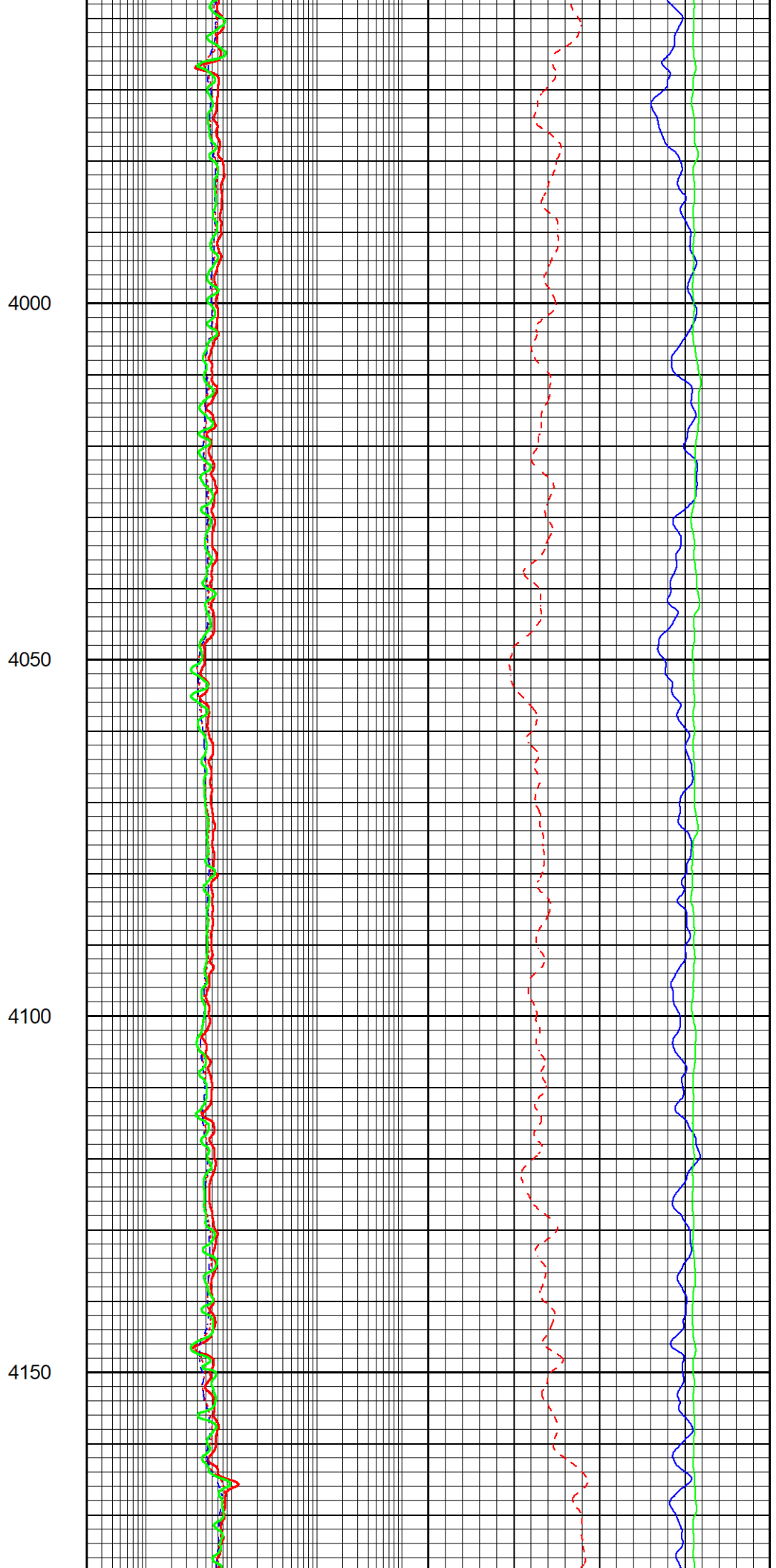
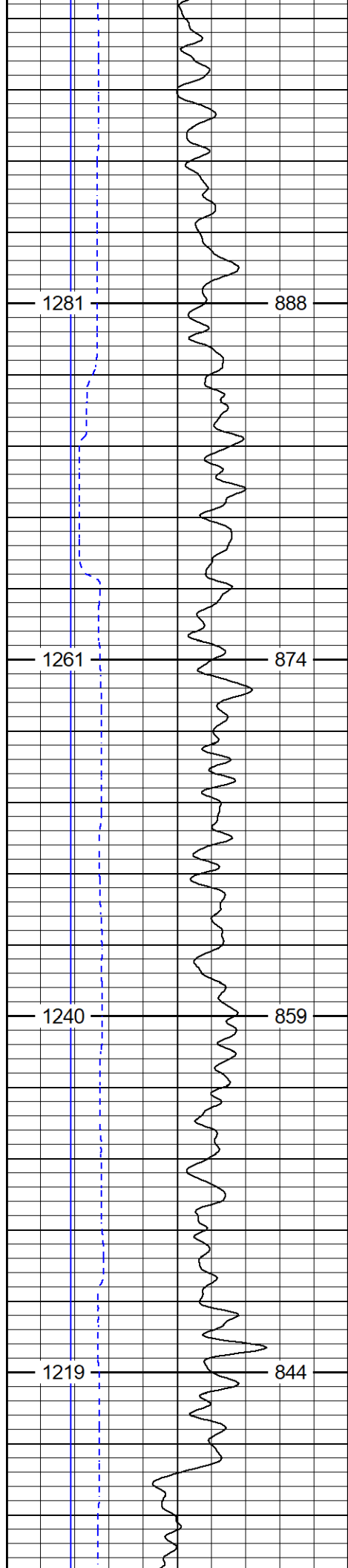


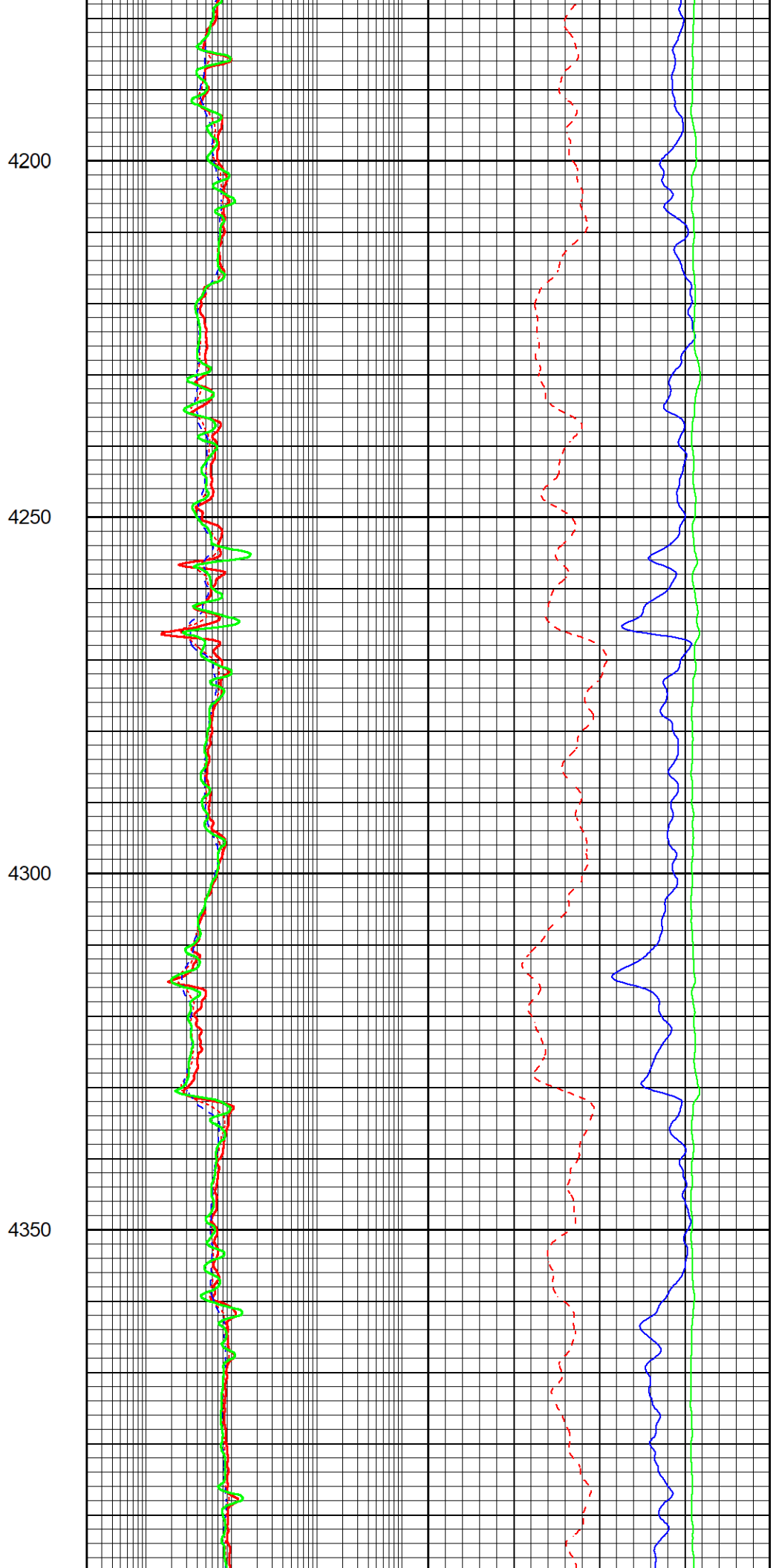
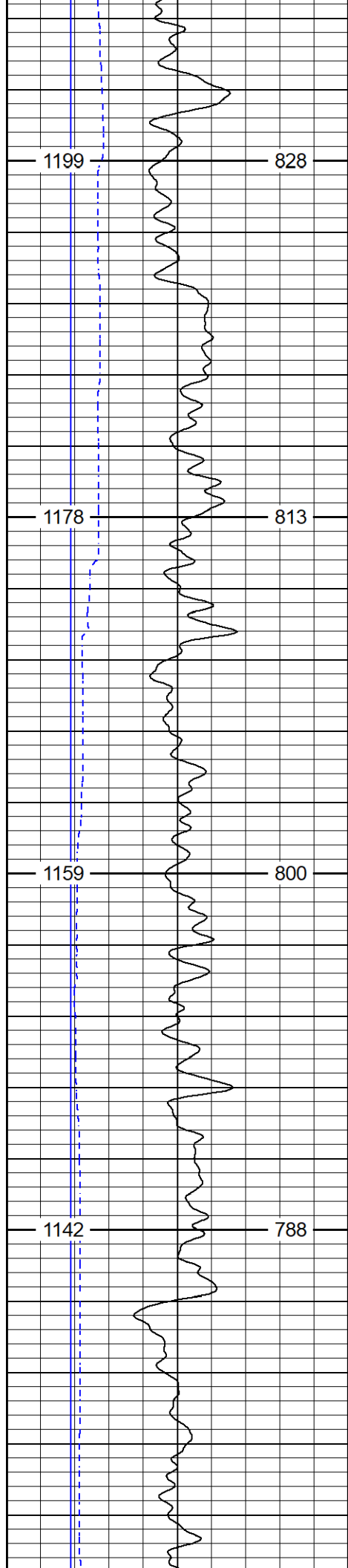


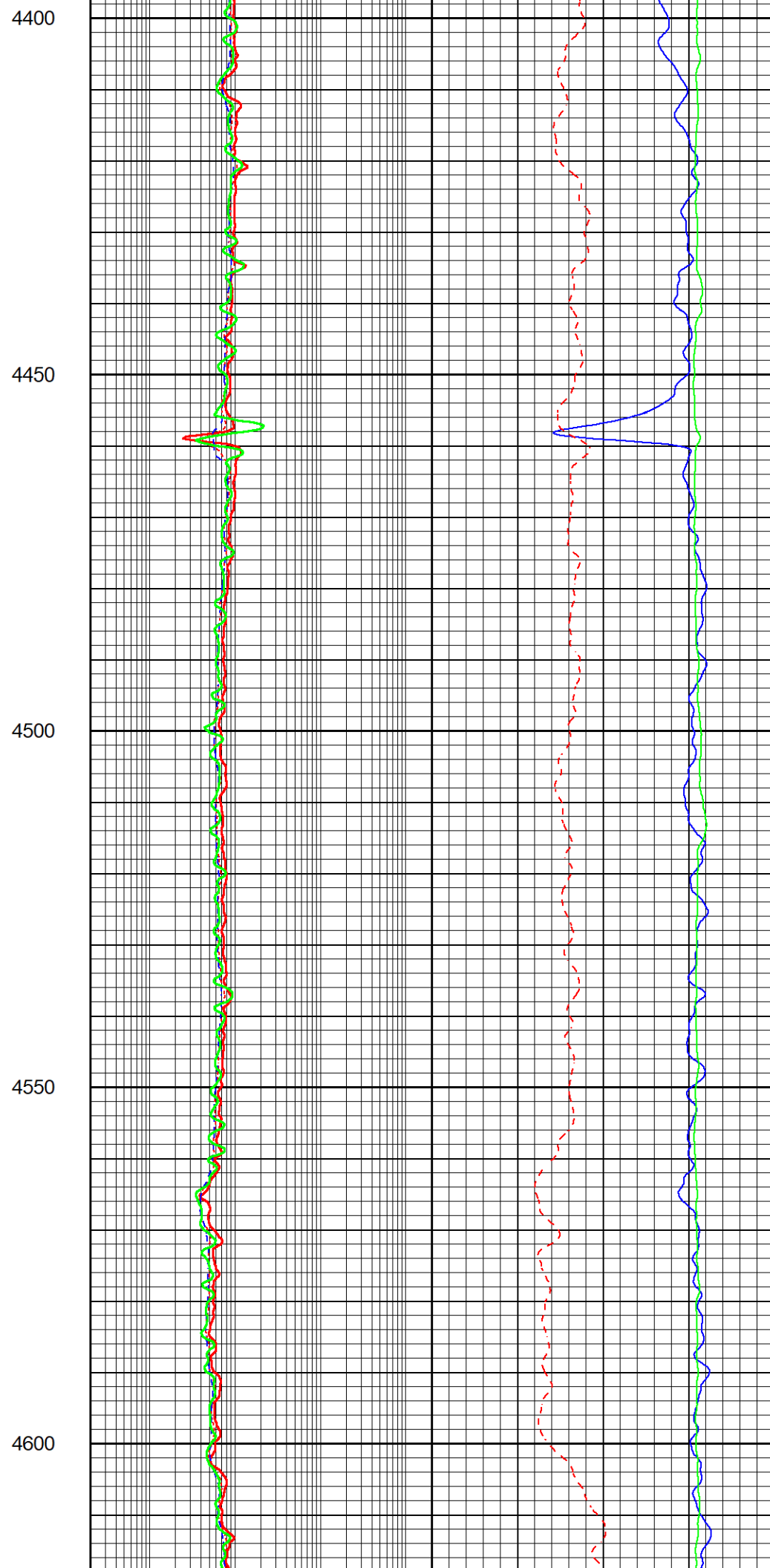
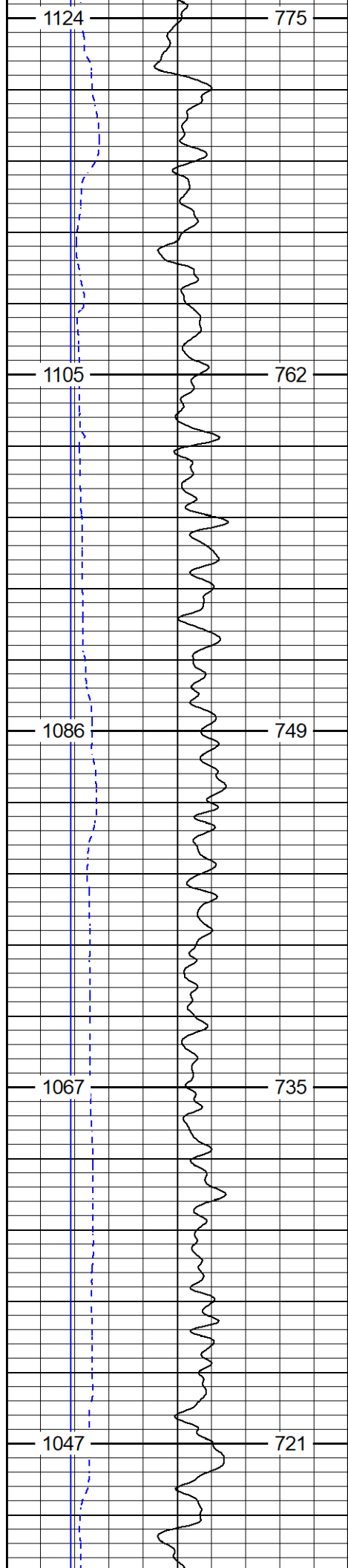


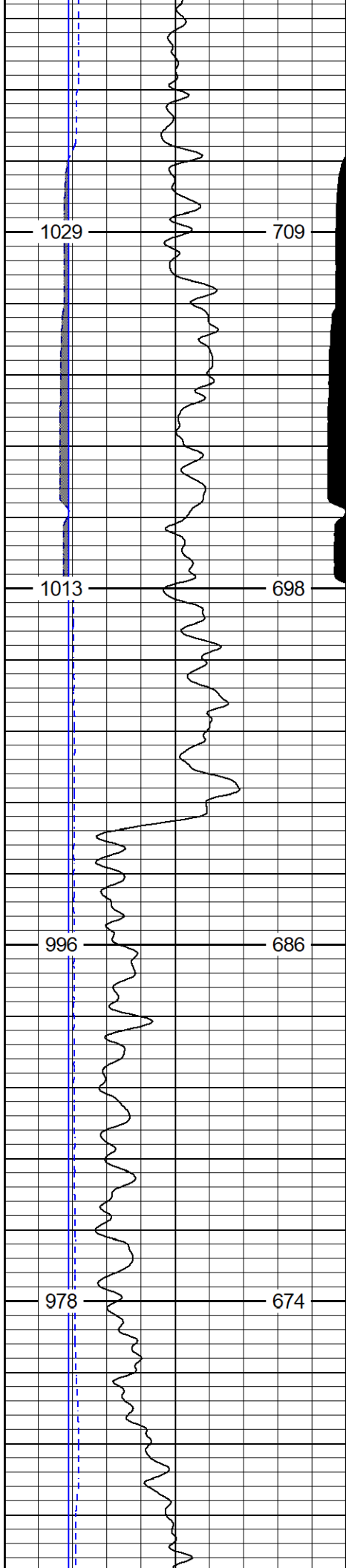










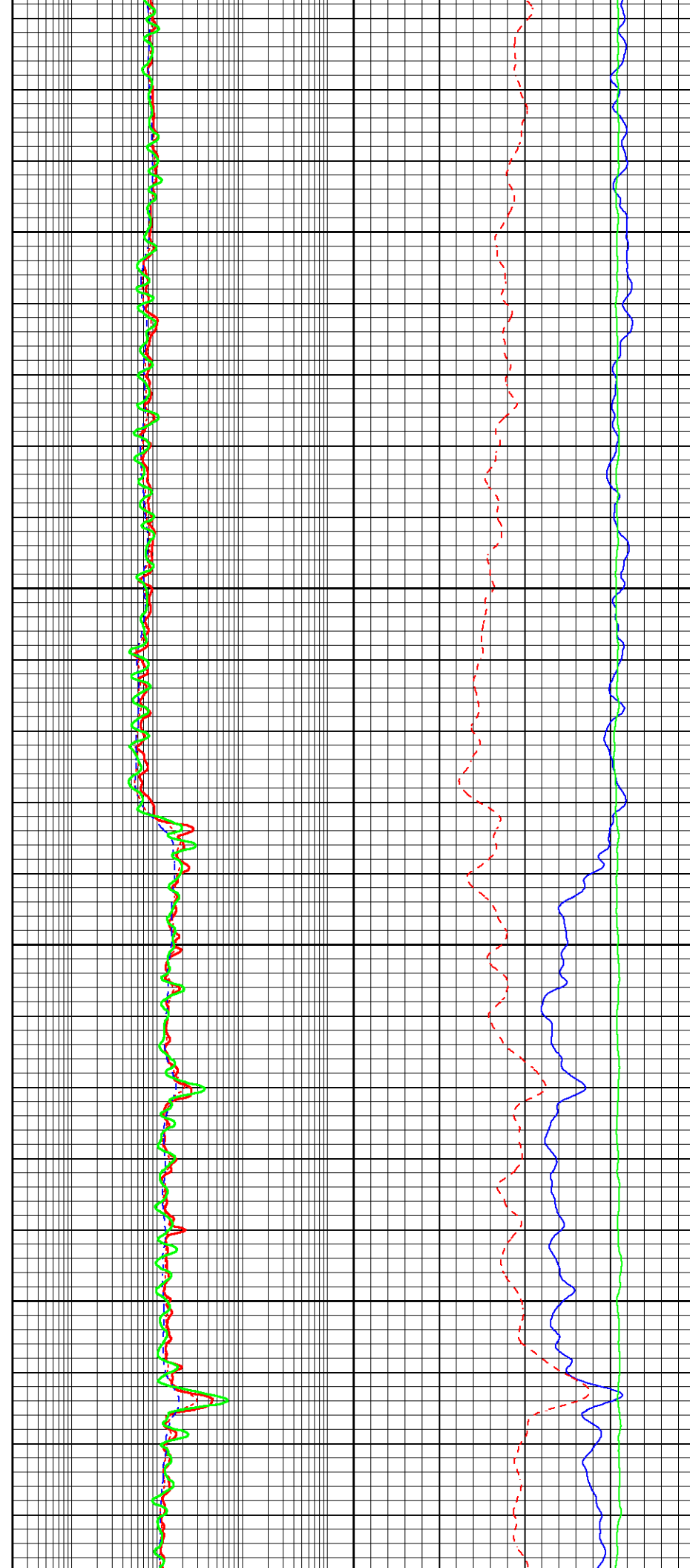


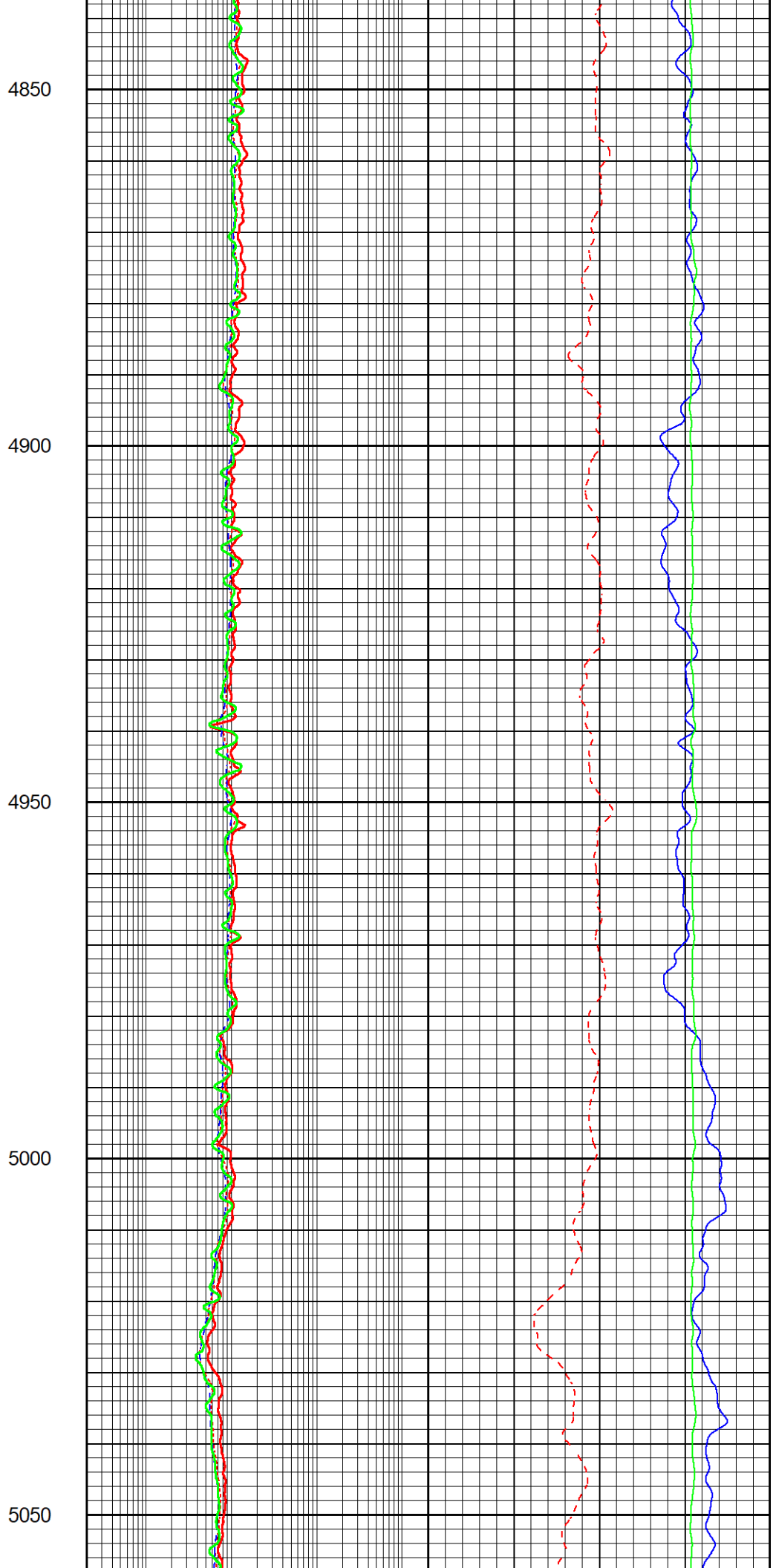
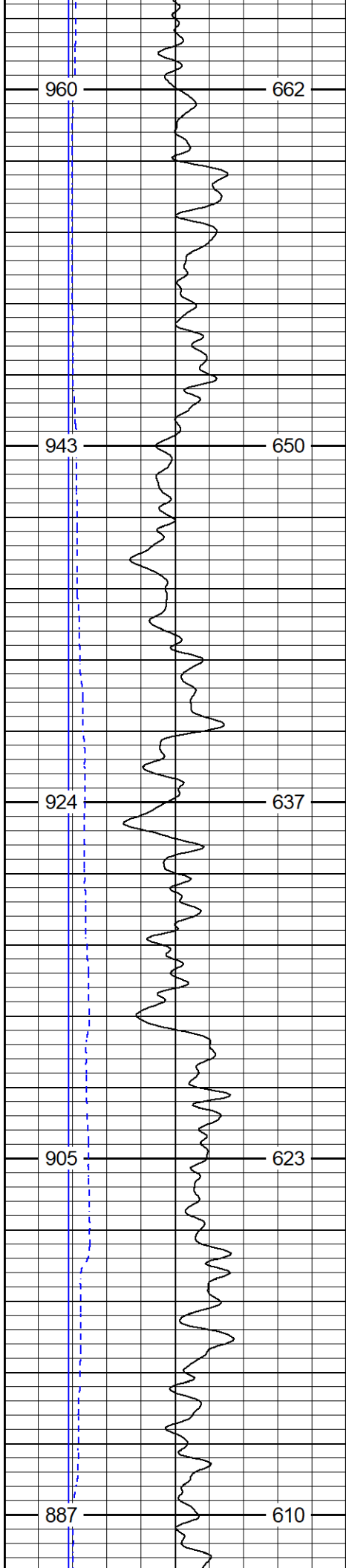
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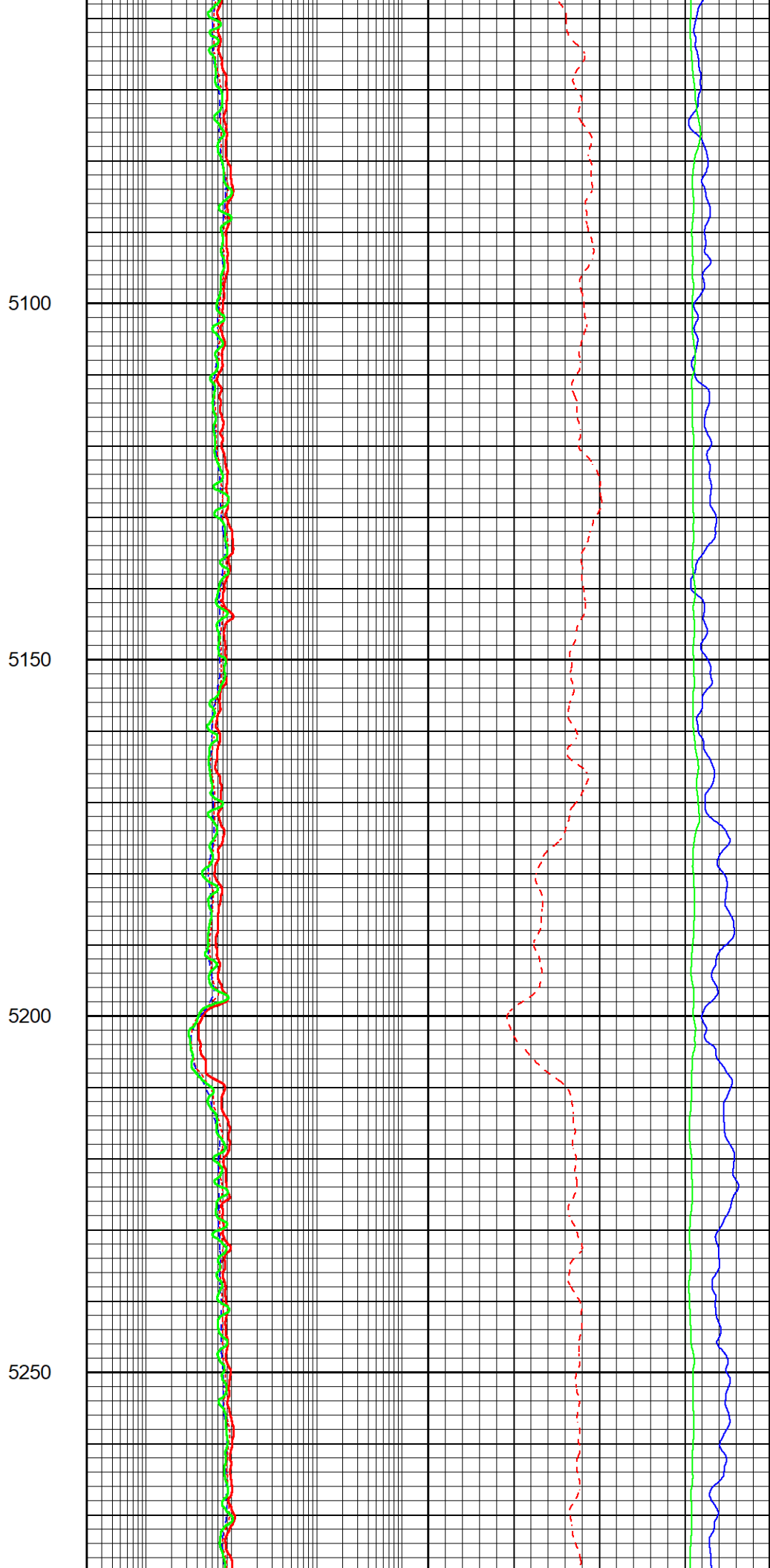
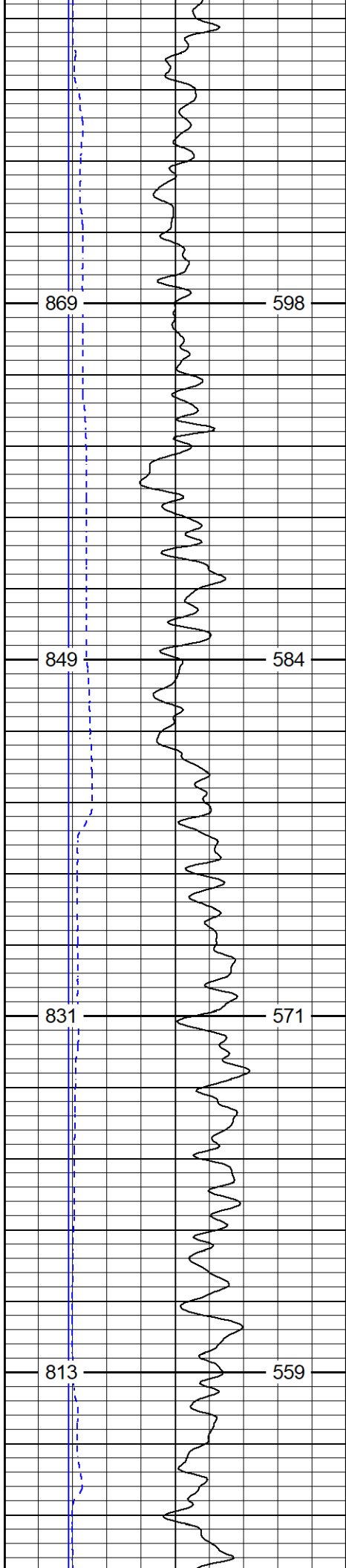
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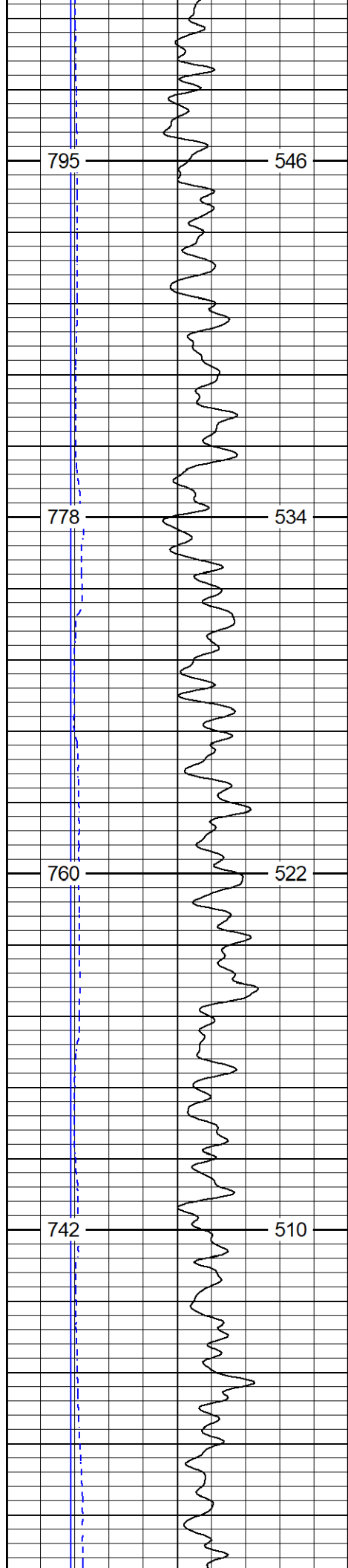
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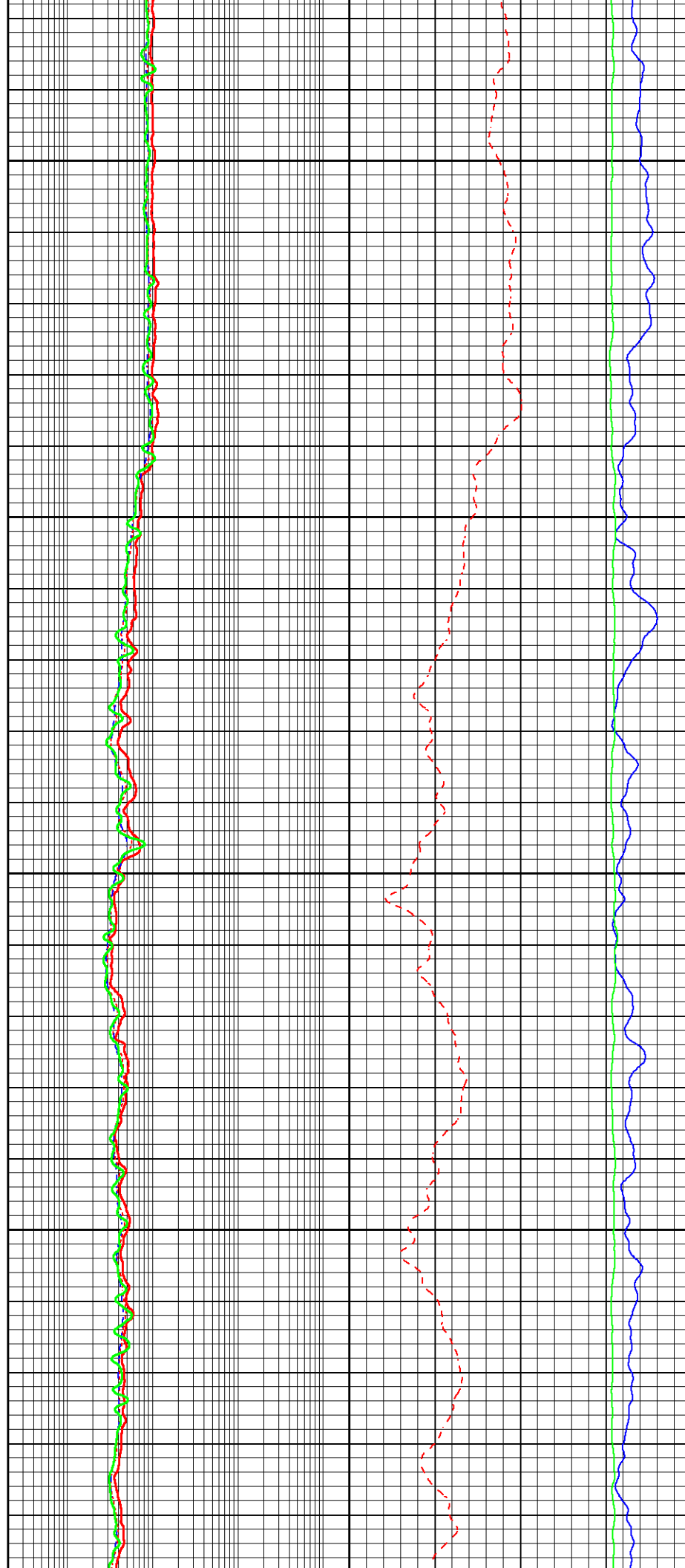


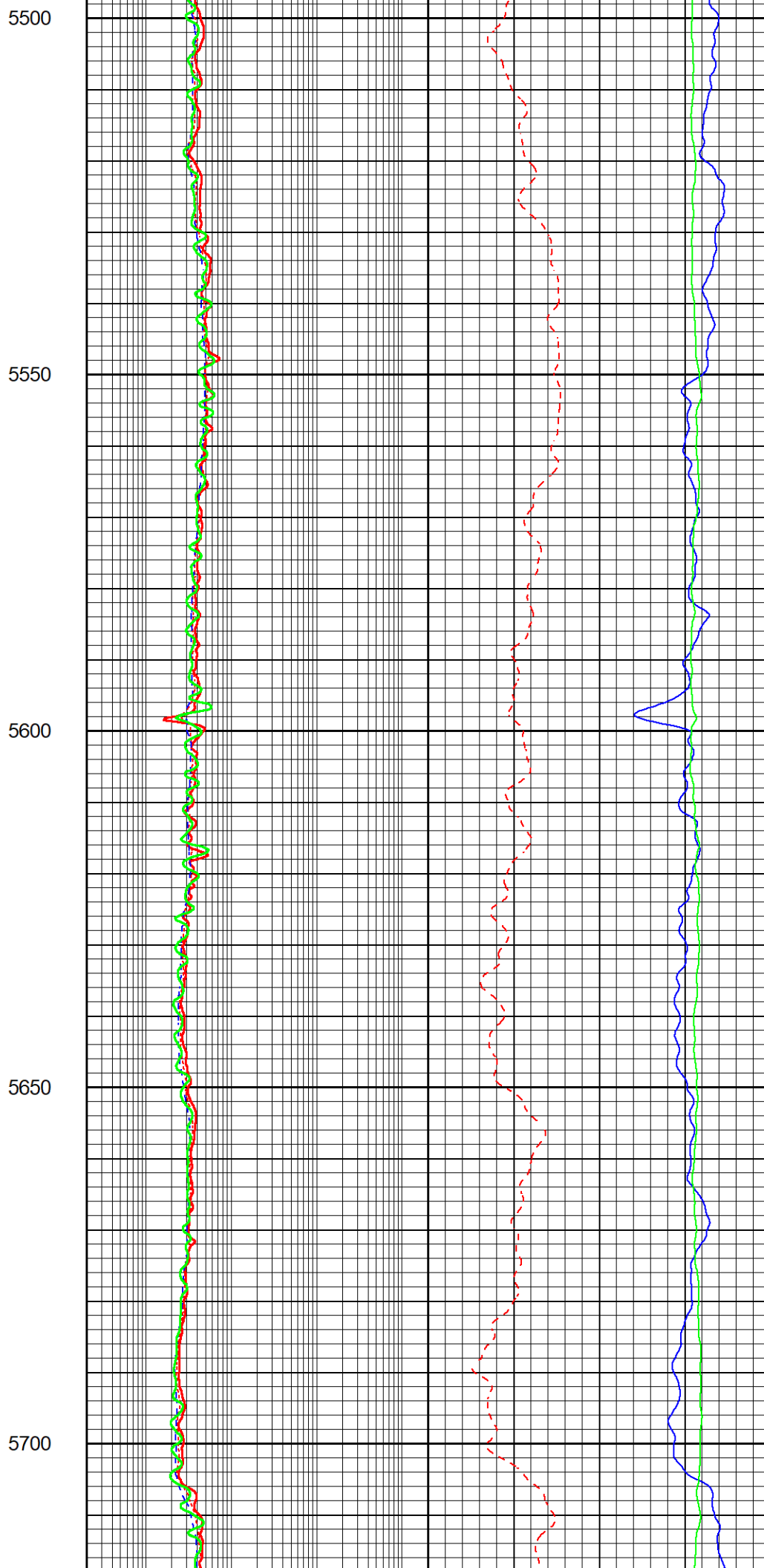
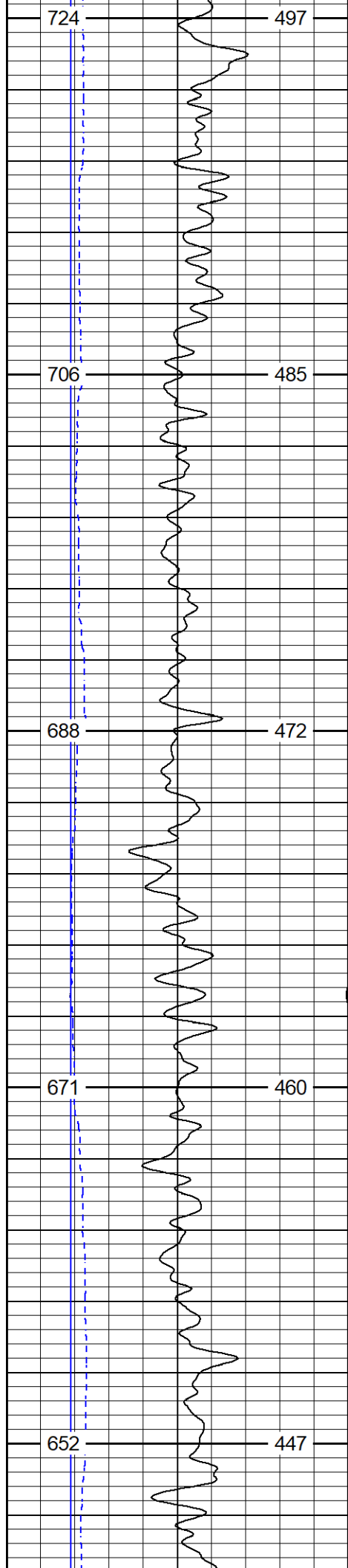
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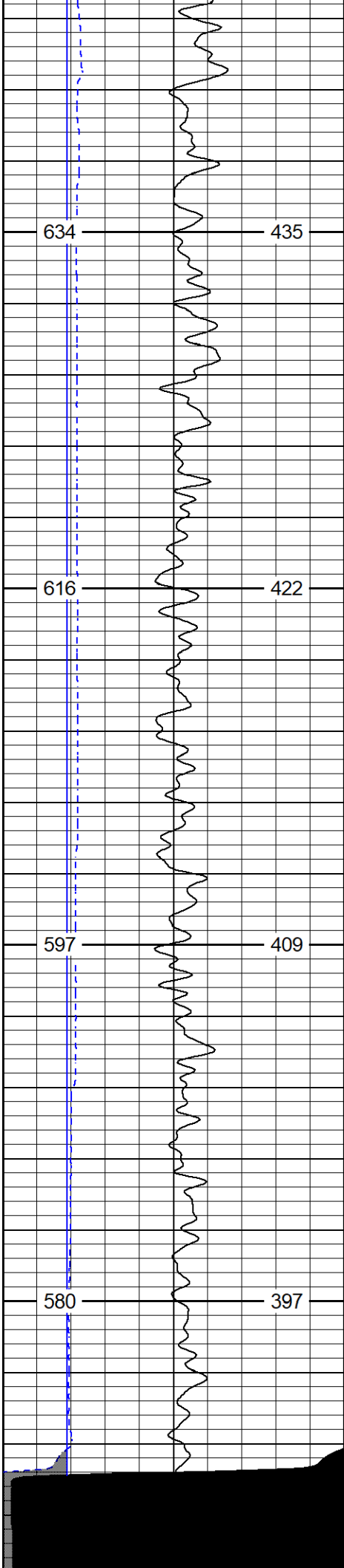
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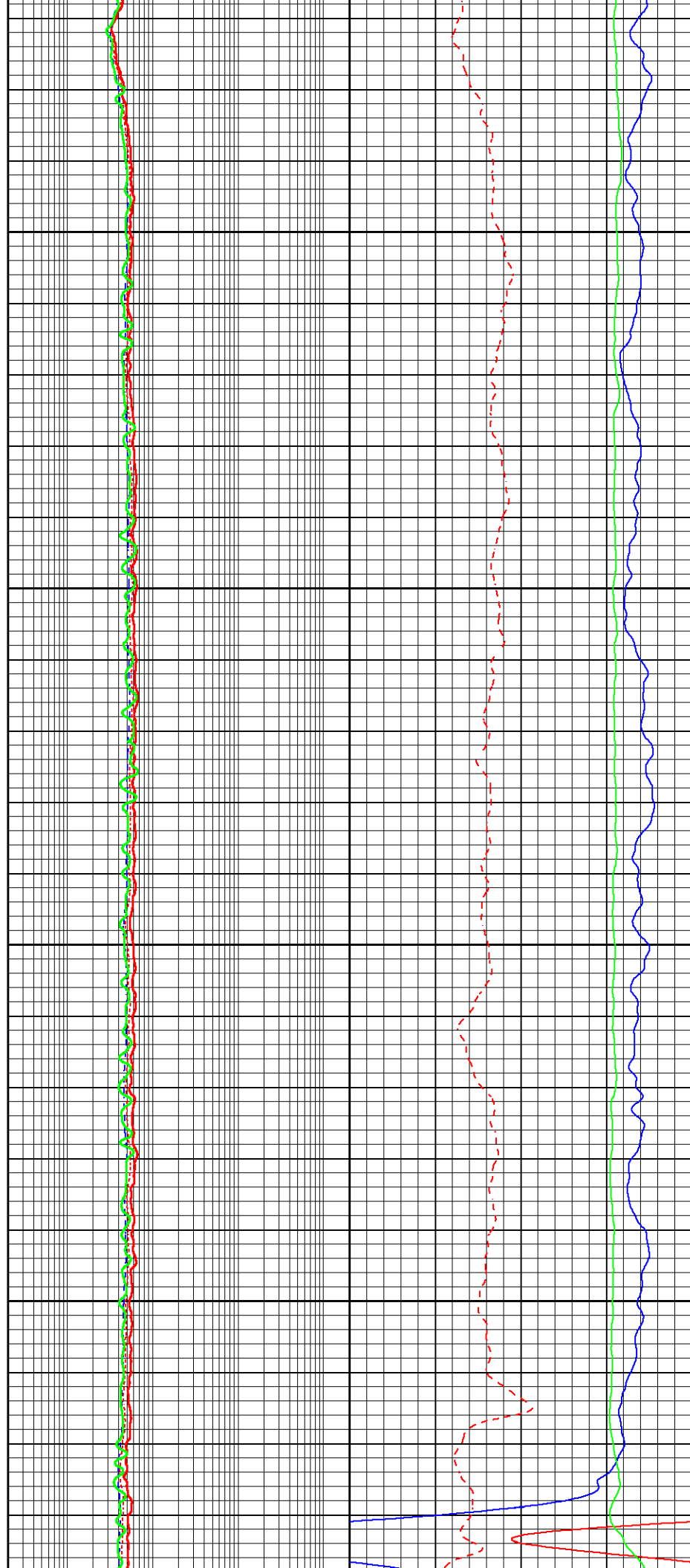


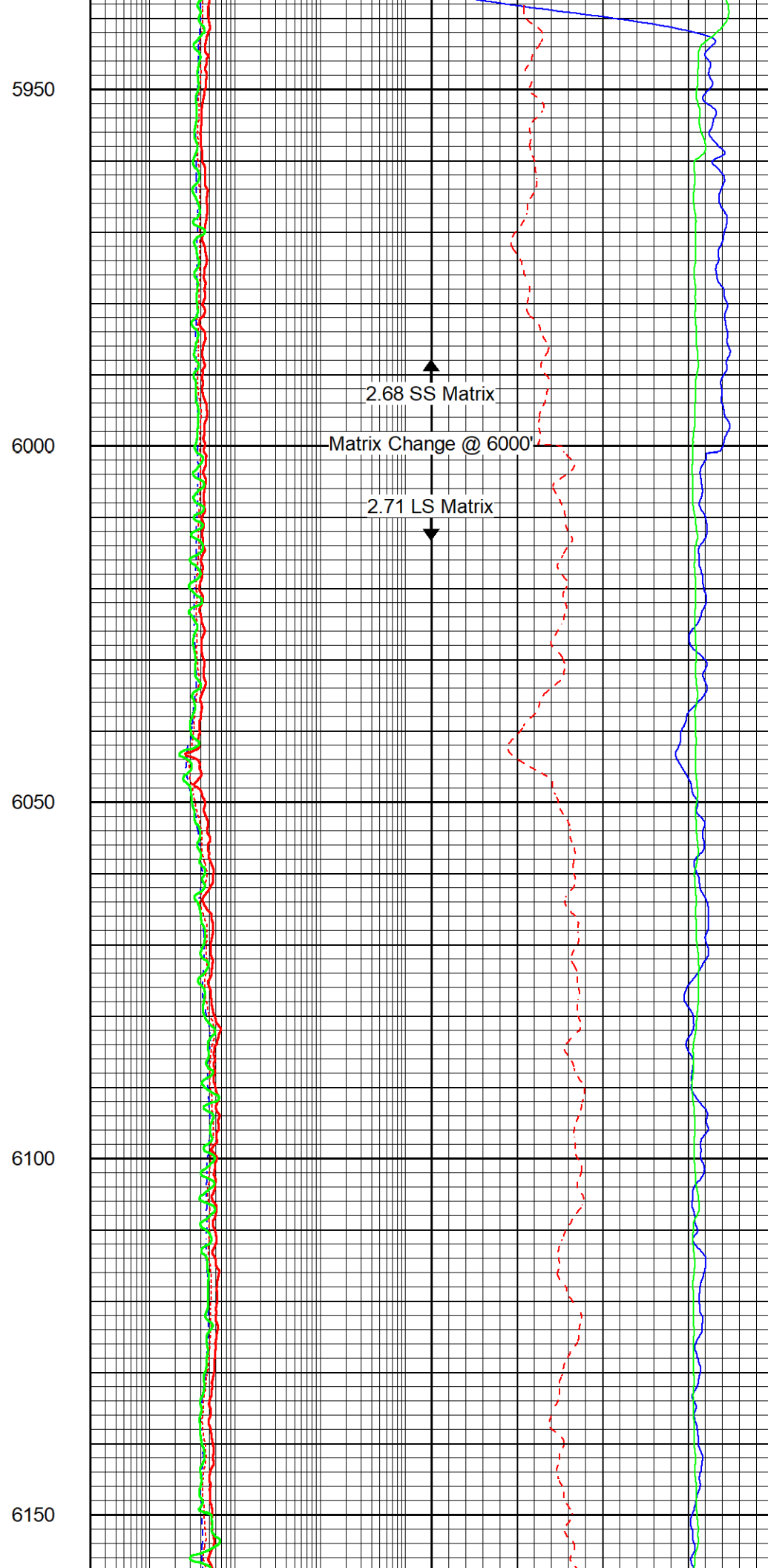
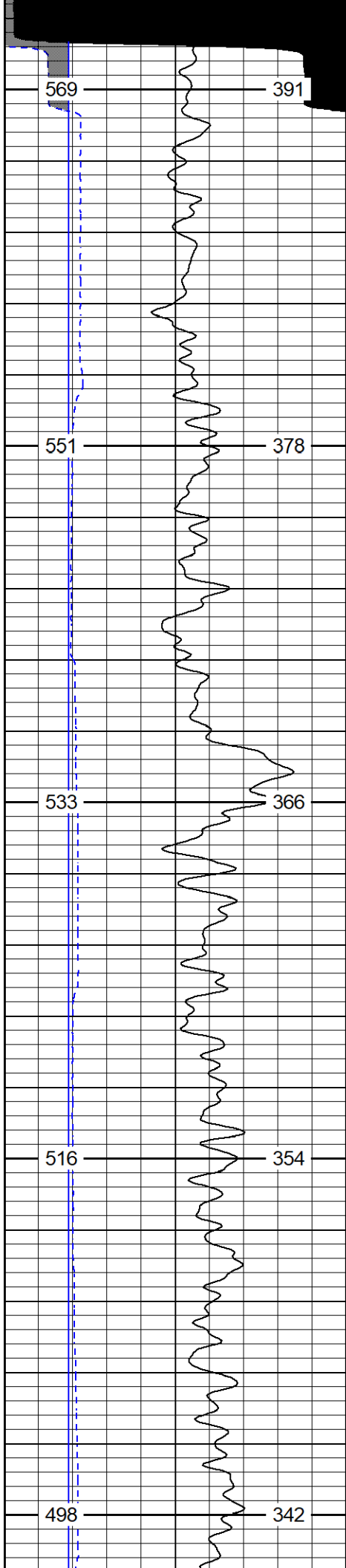
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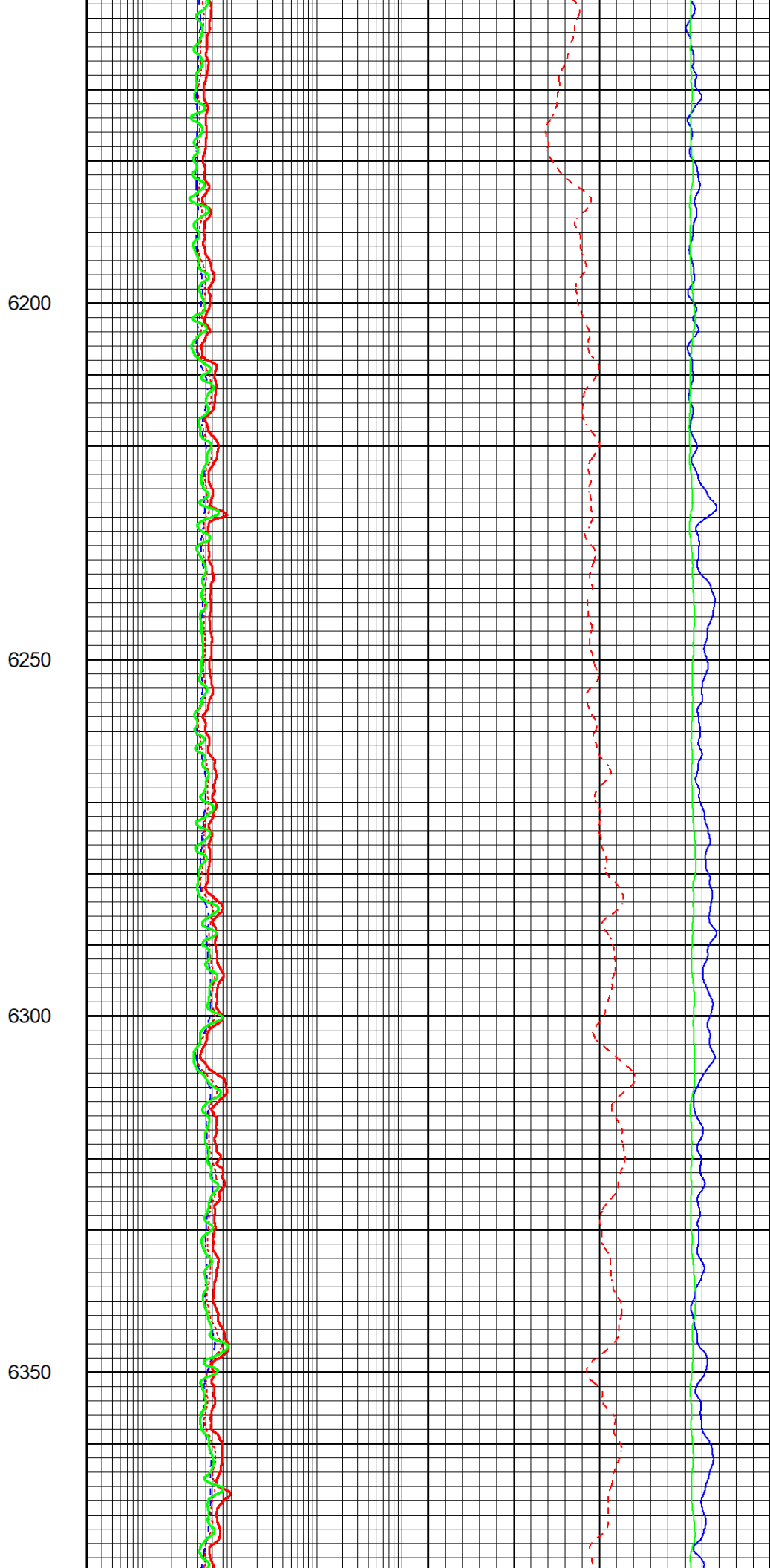
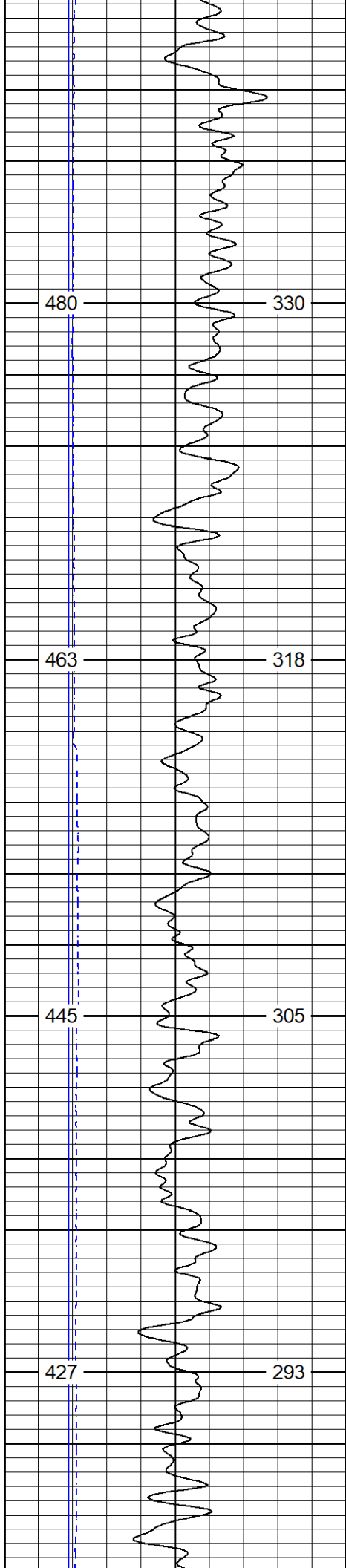
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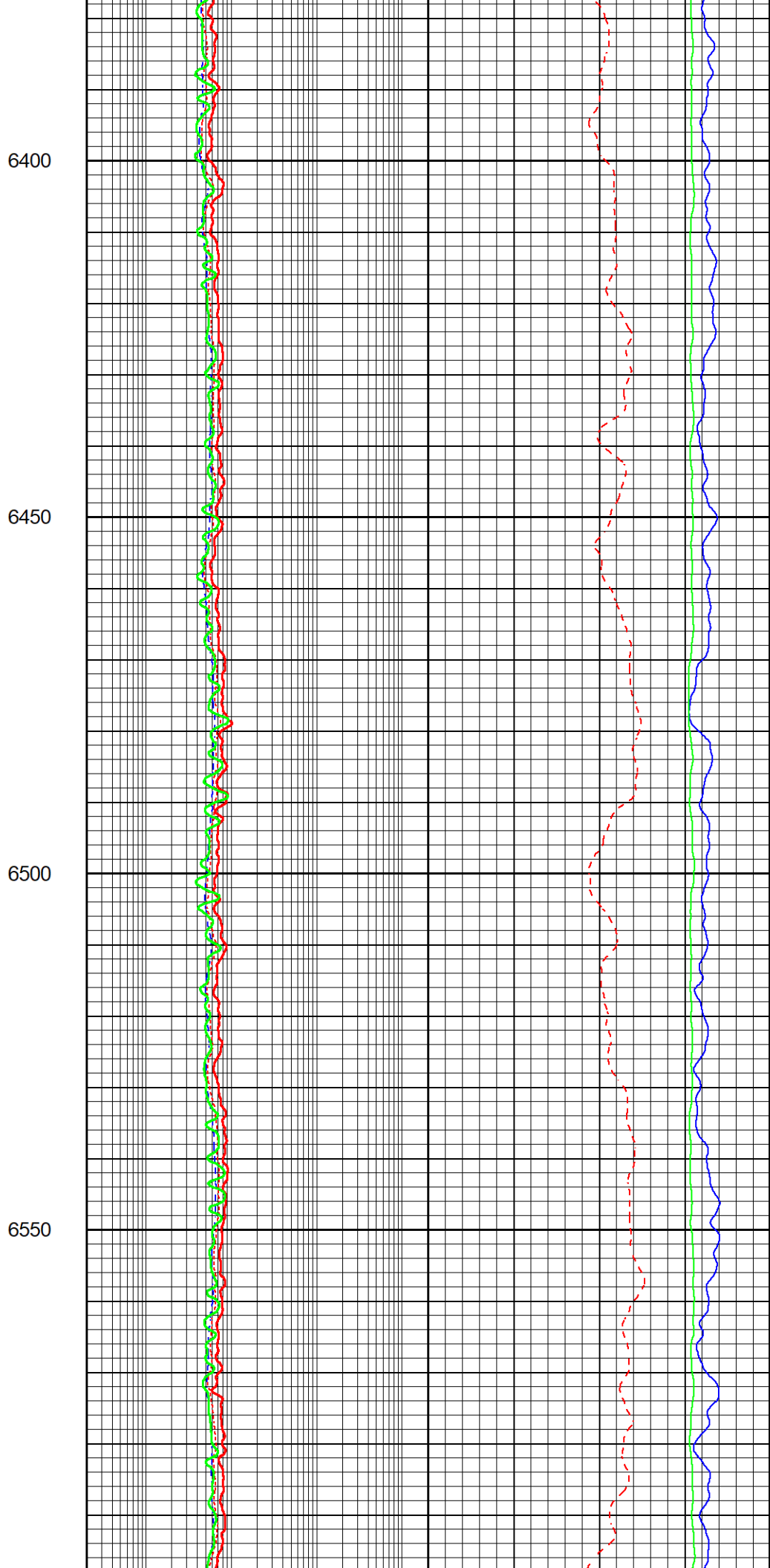
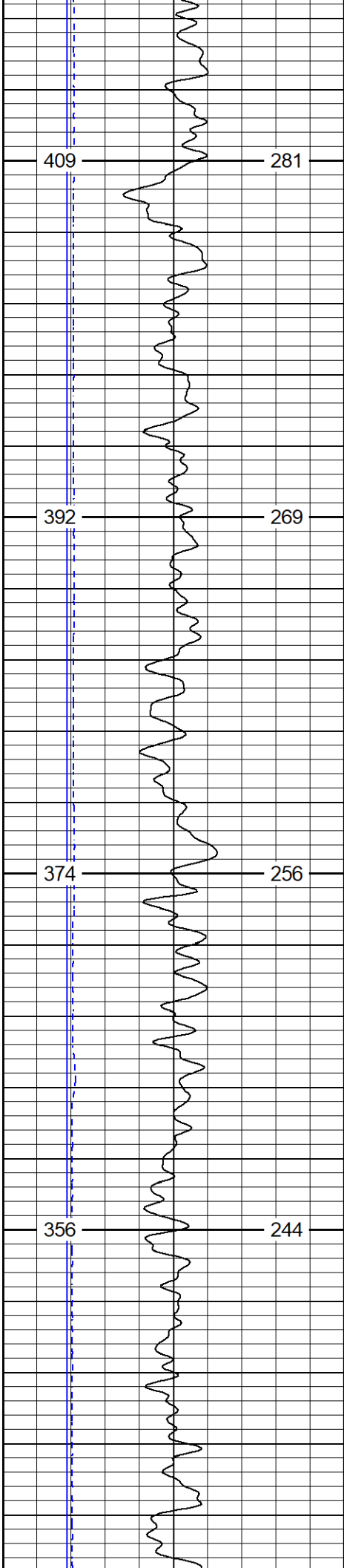
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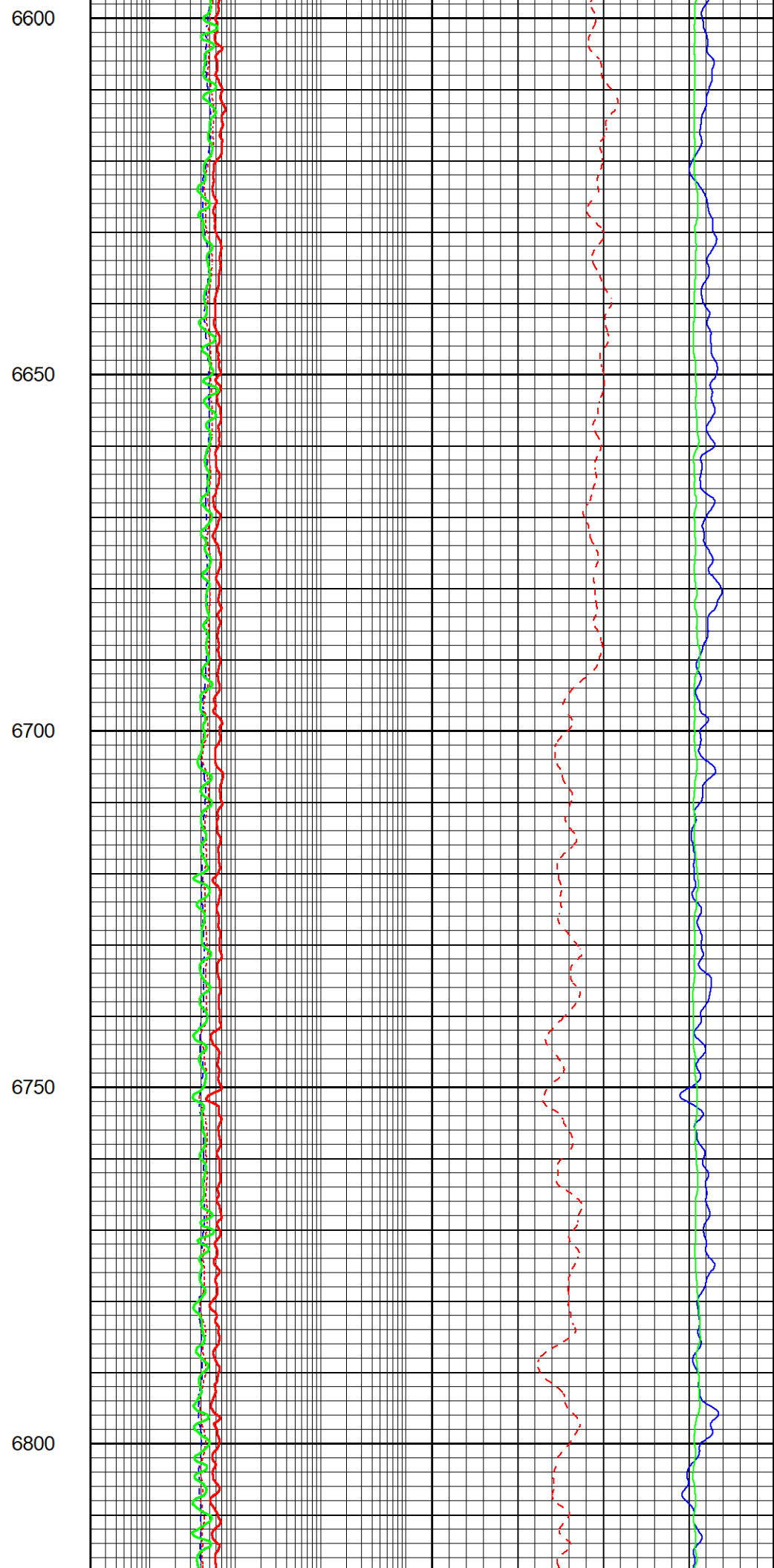
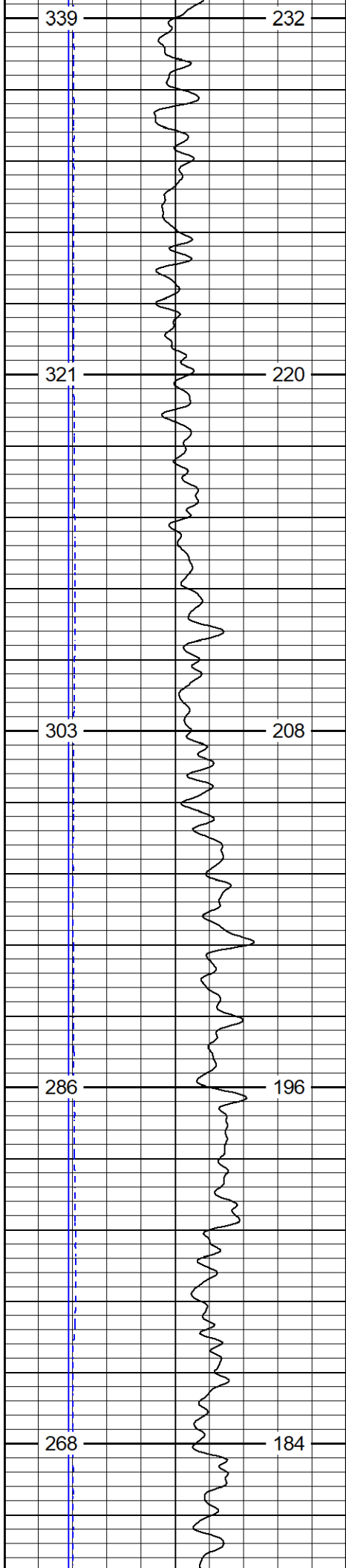
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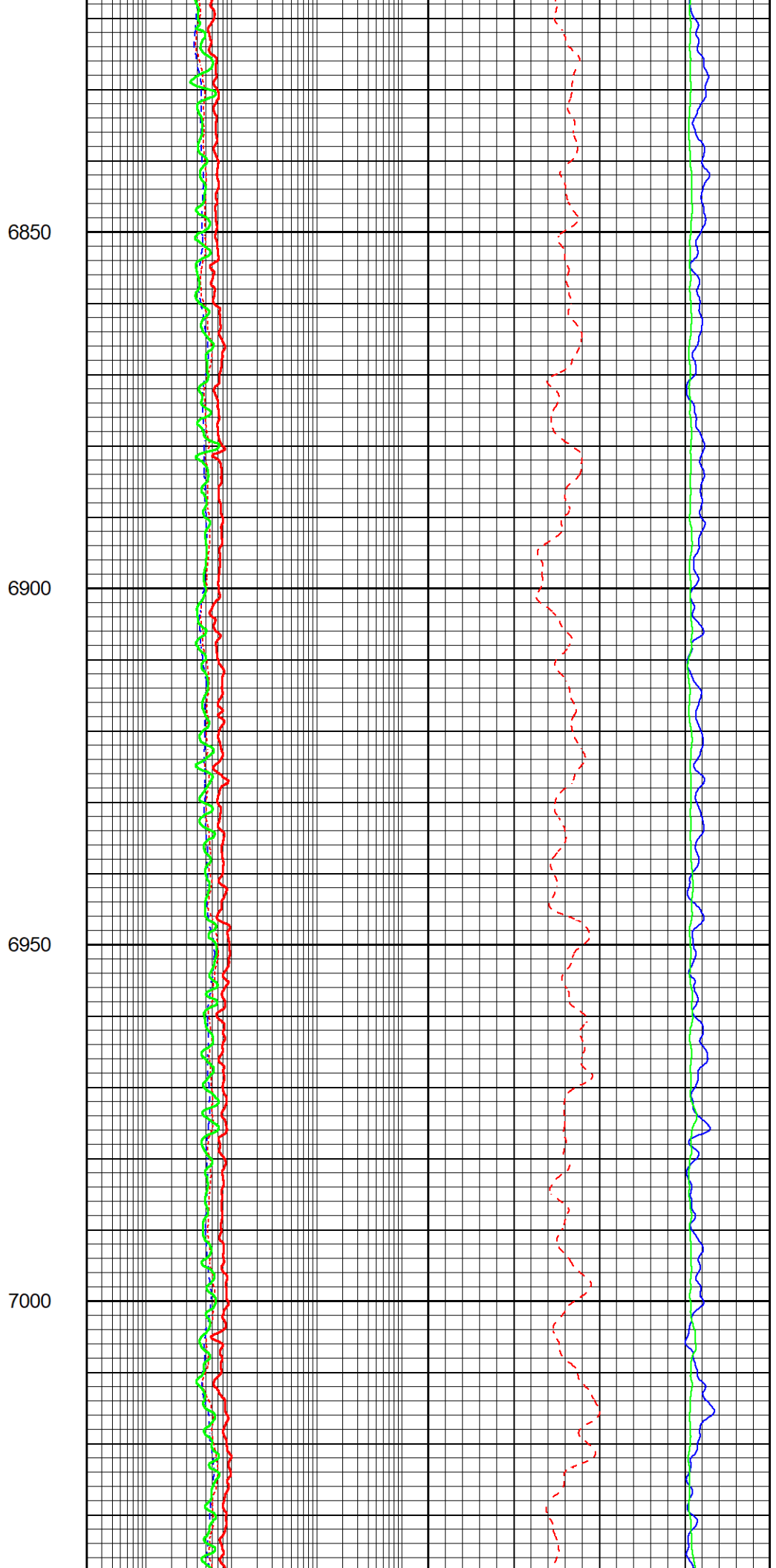
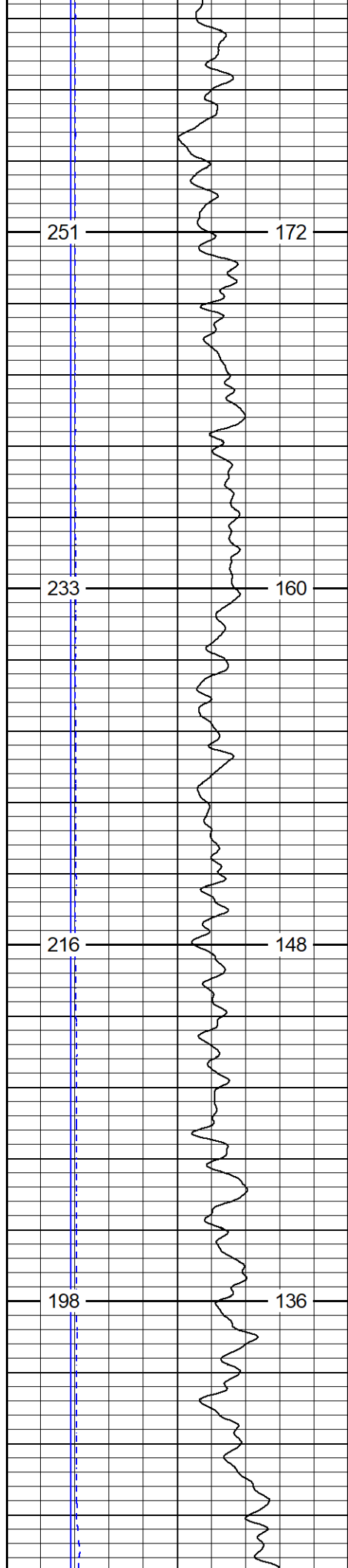


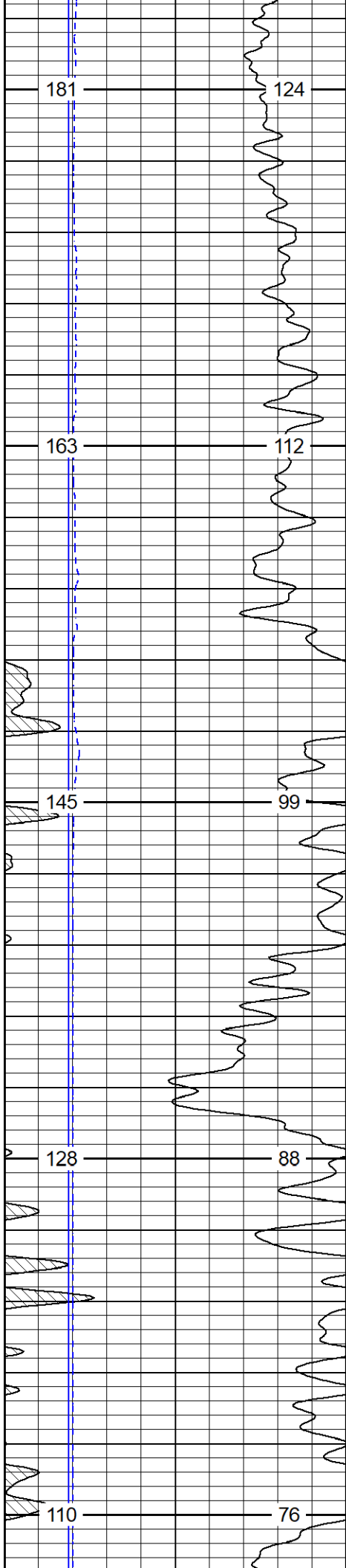












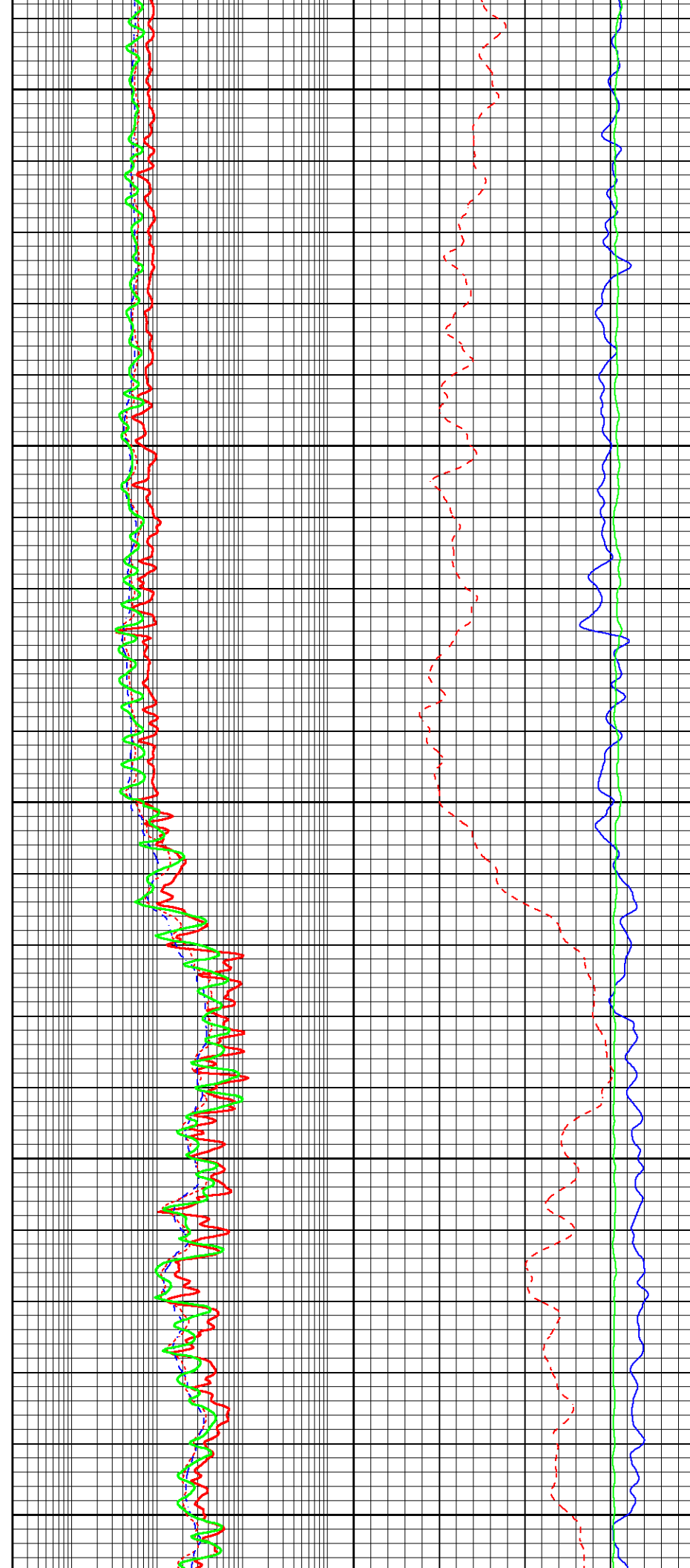
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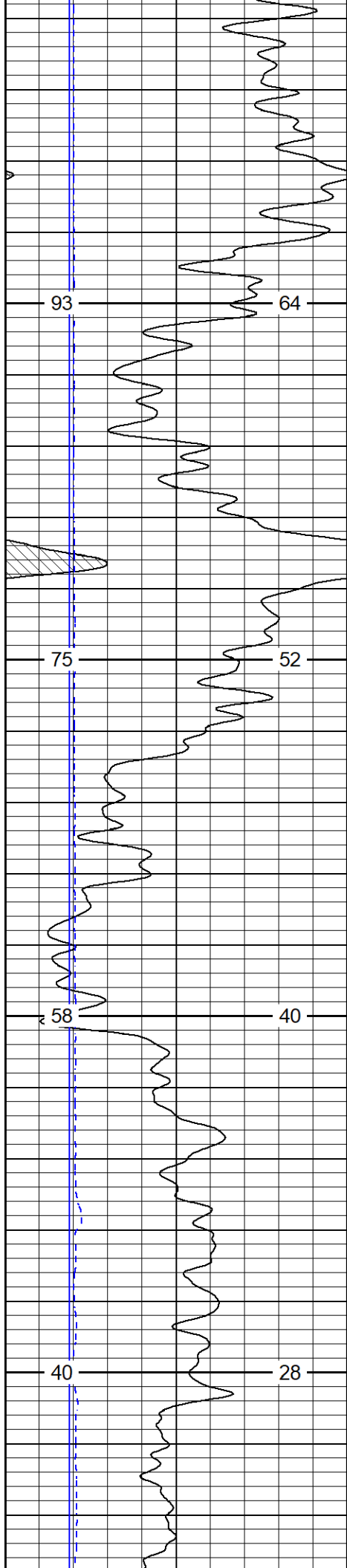
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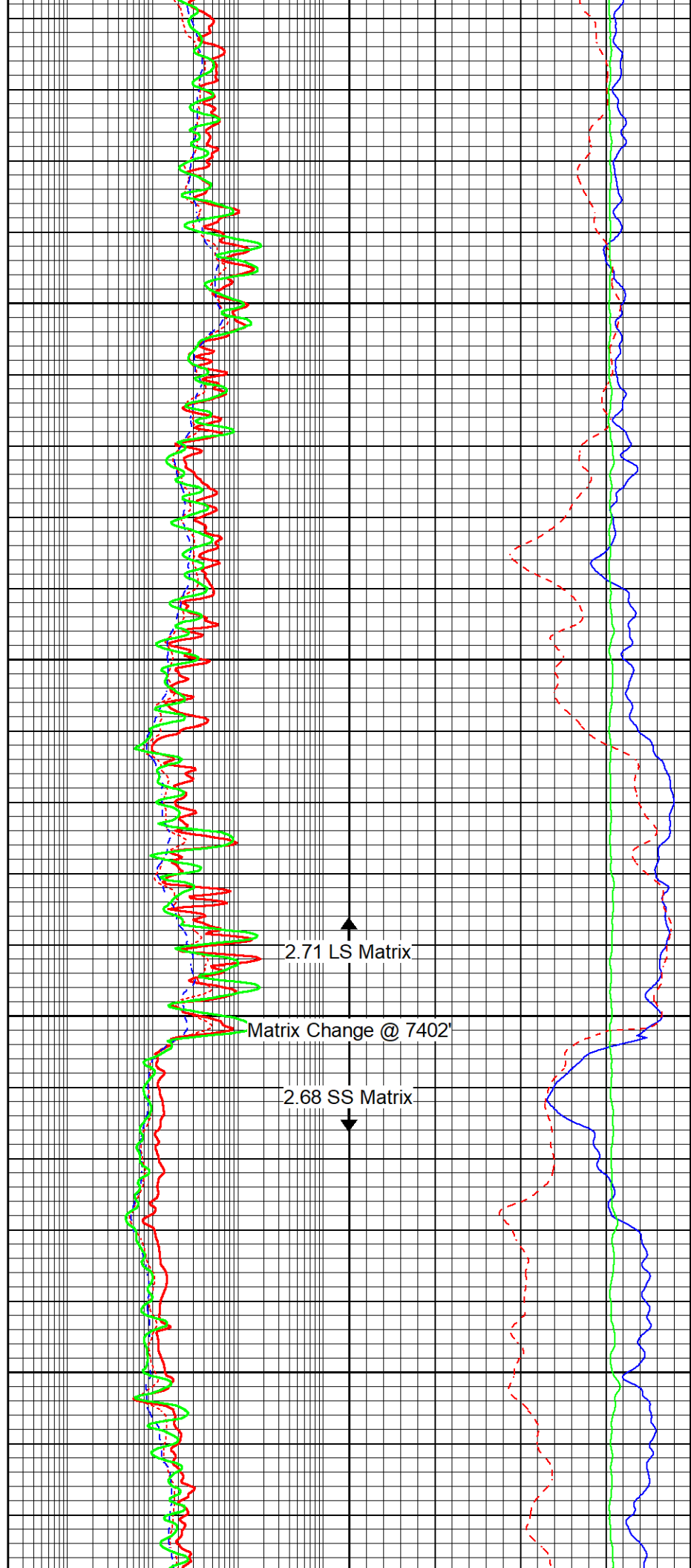


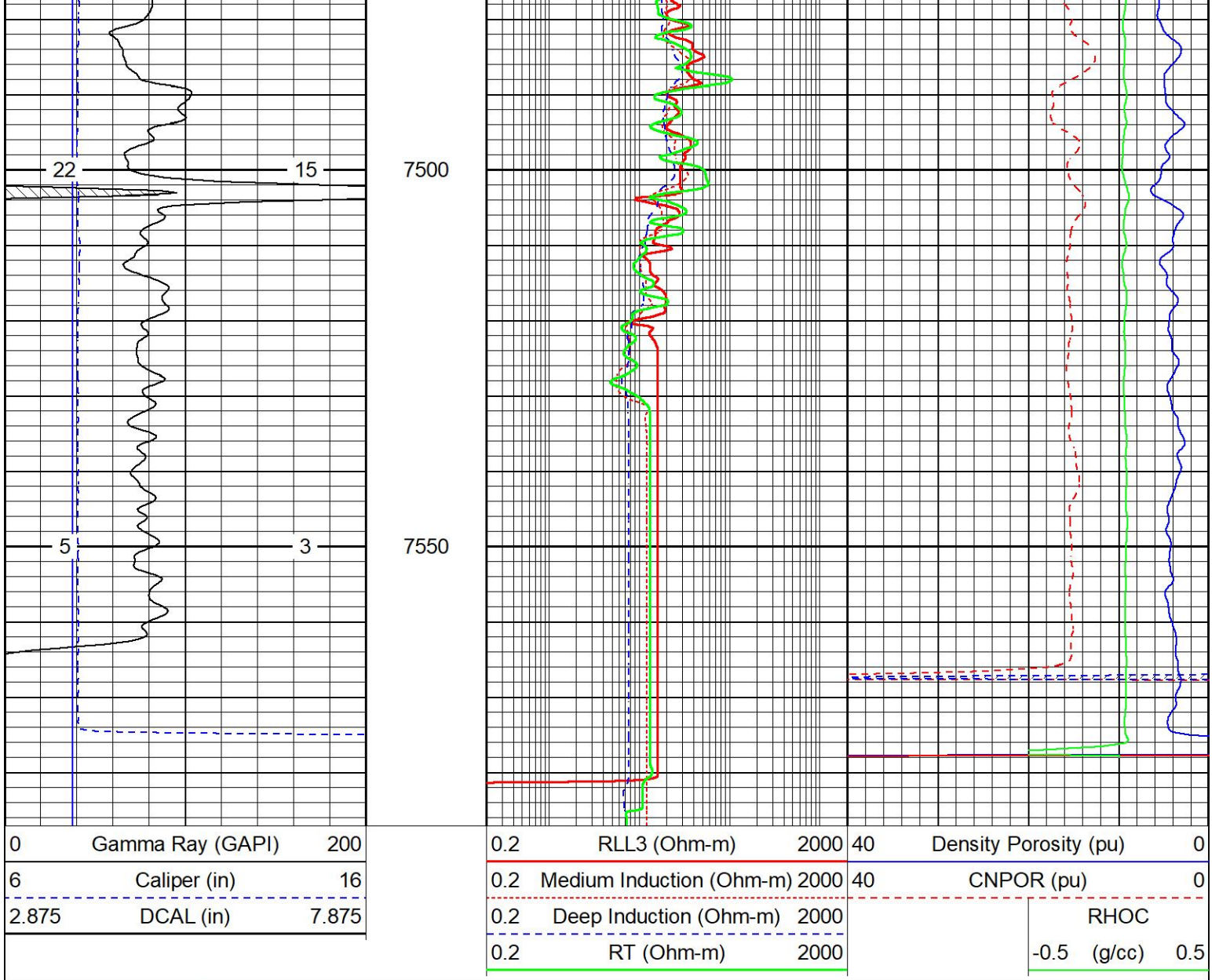
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# MAIN PASS