



PIONEER
Pioneer Energy Services

**COMPENSATED DENSITY
COMPENSATED NEUTRON
HIGH RESOLUTION INDUCTION**

Company Bayswater Exploration & Prod. LLC
Well Gilbert 17-22
Field Wattenberg
County Weld State Colorado

Location: API #: 05123396840000

SHL: 207' FSL & 1011' FWL SMSW Sec. 15

BHL: 1039' FNL & 1639' FEL NWNE

SEC 22 TWP 7N RGE 67W

Permanent Datum GL Elevation 5053
Log Measured From KB
Drilling Measured From KB

Other Services

None

Elevation

K.B. 5065
D.F. 5064
G.L. 5053

Date July 15, 2014

Run Number 1

Depth Driller 8280

Bottom Logged Interval

Top Log Interval

Casing Driller Casing

Casing Logger 815

Bit Size 7-7/8"

Type Fluid in Hole Chem Gel

Density / Viscosity 9.8 / 66

pH / Fluid Loss 8.5 / 6.8

Source of Sample Flowline

Rm @ Meas. Temp 3.10 @ 70° F

Rmf @ Meas. Temp 2.48 @ 70° F

Rmc @ Meas. Temp 3.72 @ 70° F

Source of Rmf / Rmc Measure / Calc

Rm @ BHT 1.04 @ 207° F

Time Circulation Stopped 0430

Time Logger on Bottom 1700

Maximum Recorded Temperature 207° F

Equipment Number 50

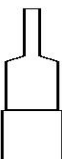
Location Brighton, CO

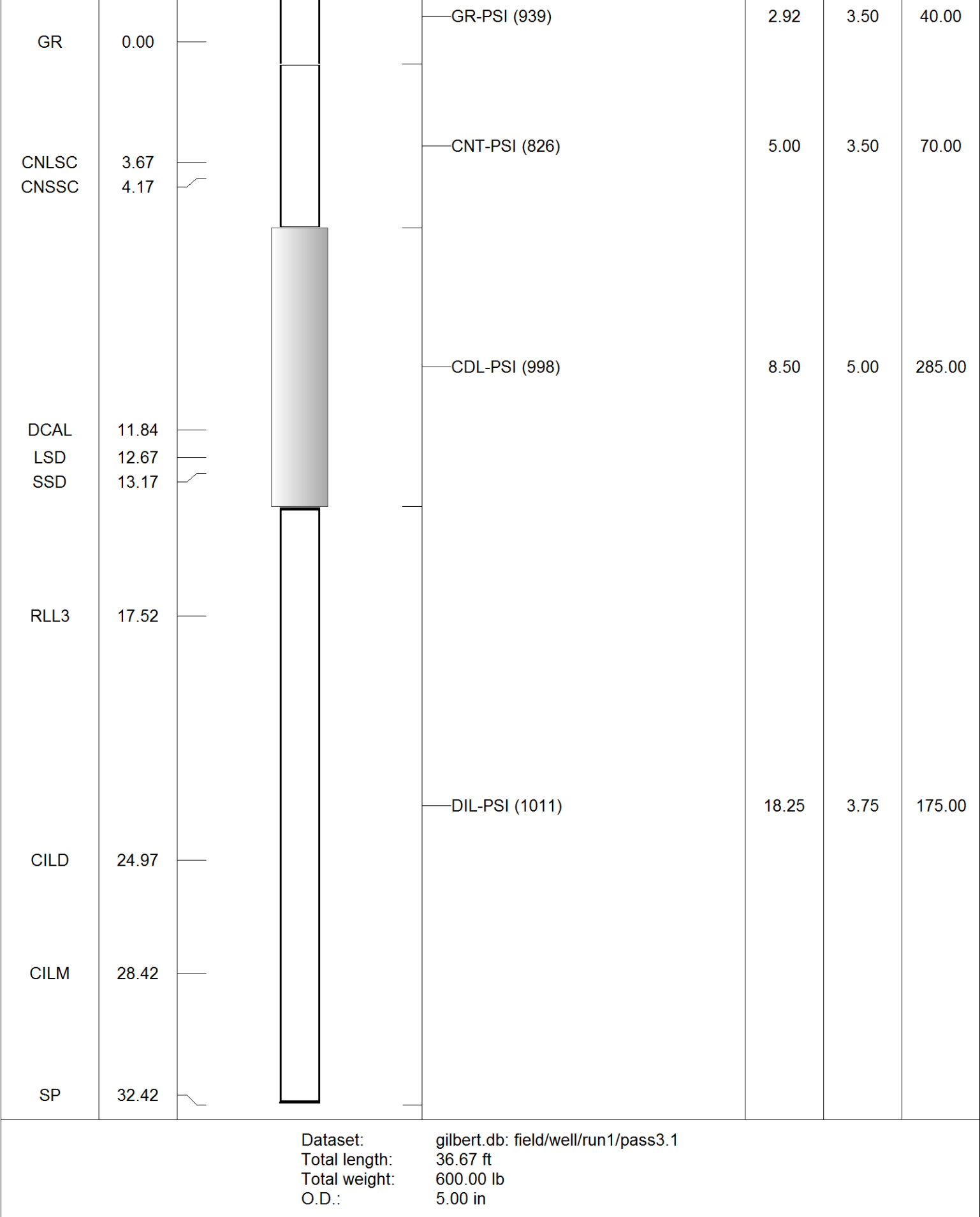
Recorded By Matt Gill

Witnessed By Red Bengte

Comments

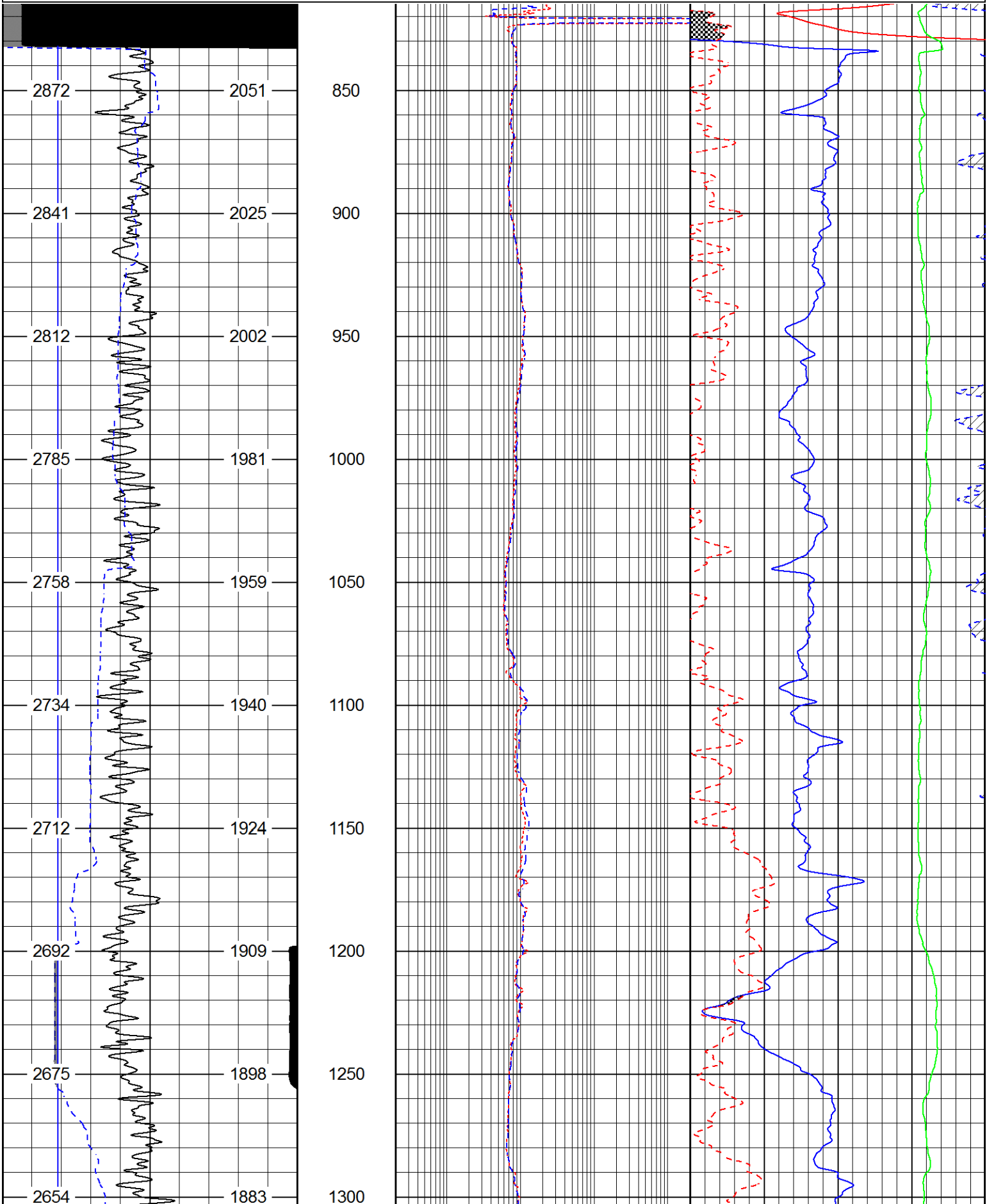
Annular volume calculated for 4-1/2" casing
Fort Drilling Rig 5
Thank you for using Pioneer Energy Services!!

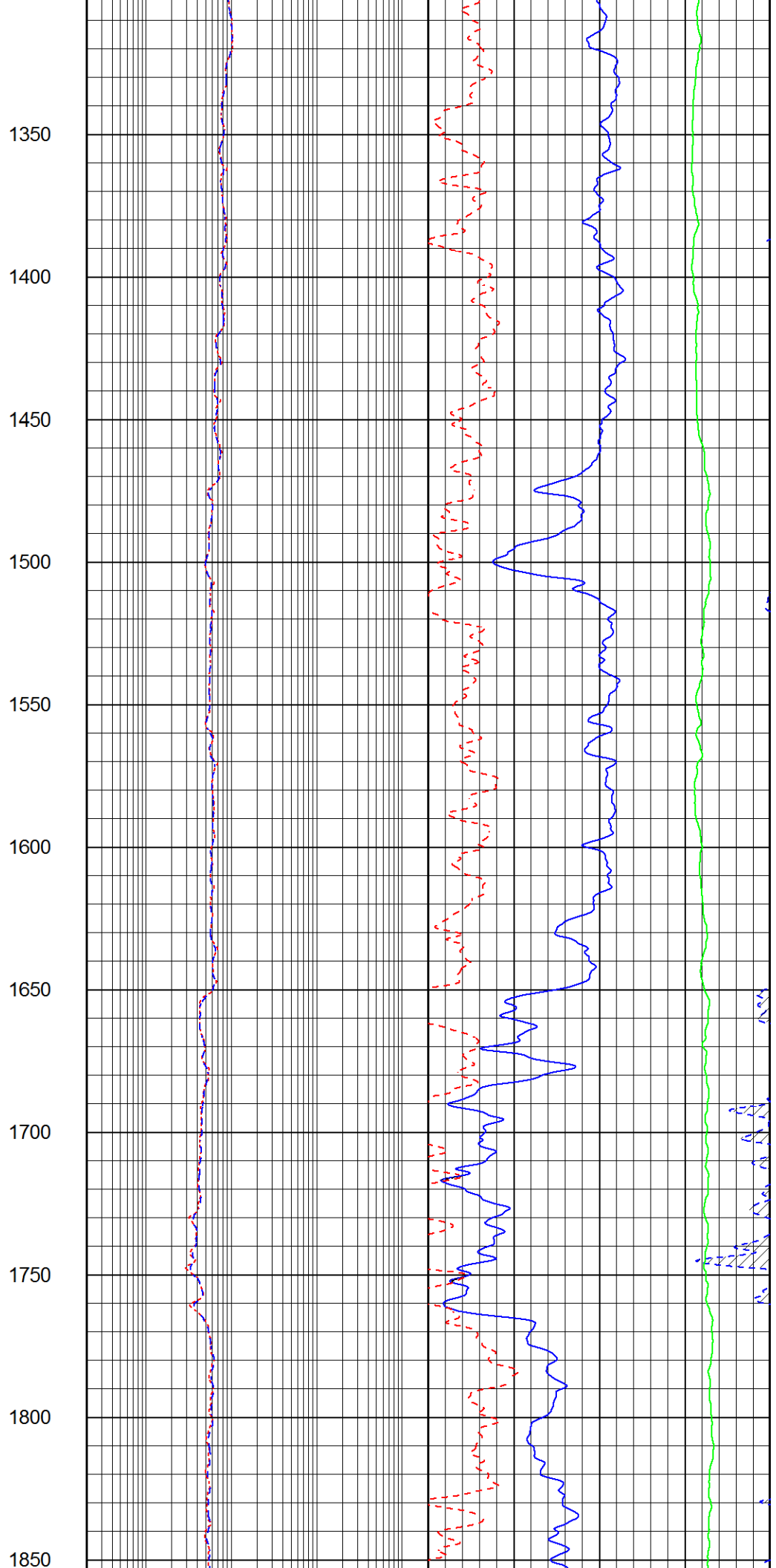
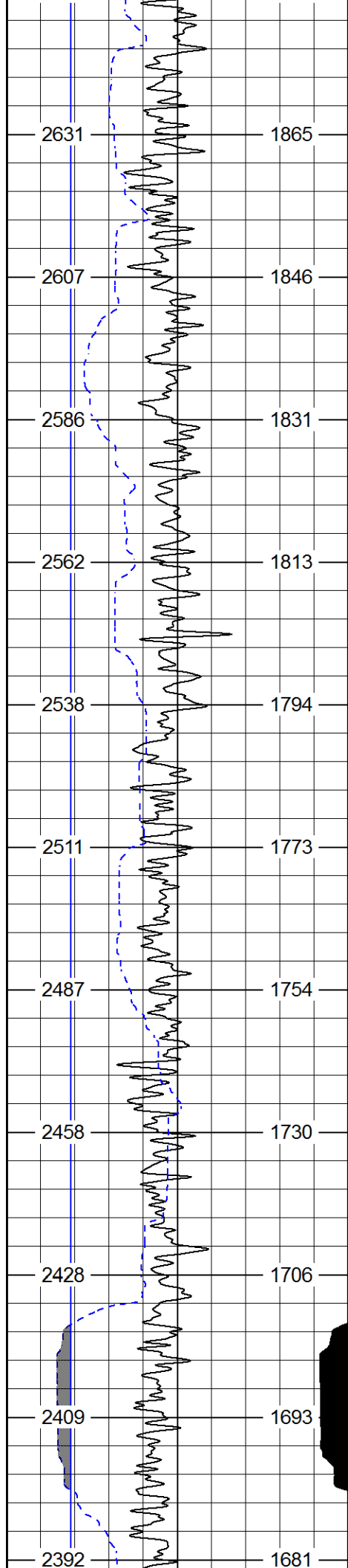
Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
			CHD (~0)	2.00	3.50	30.00

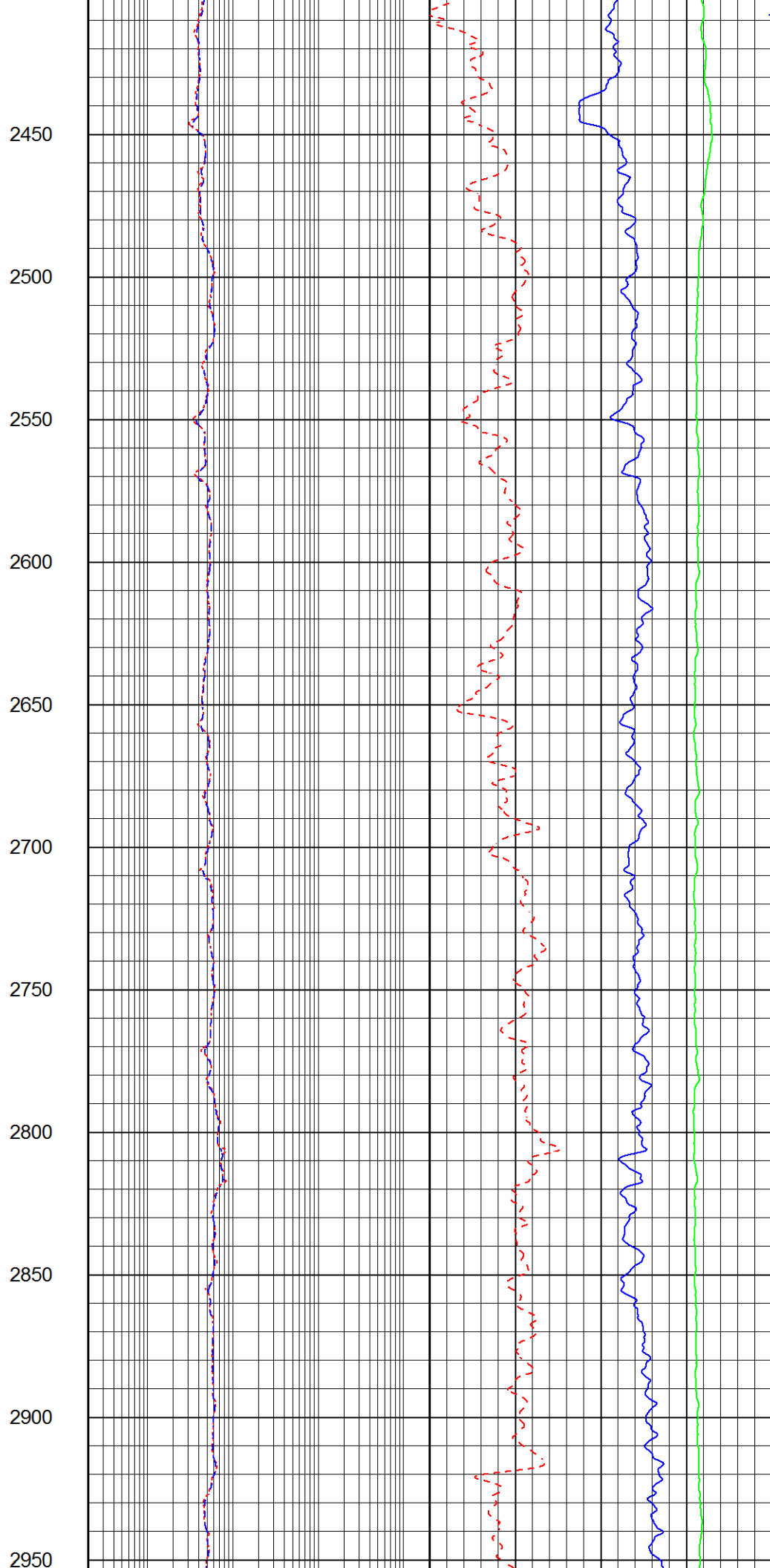
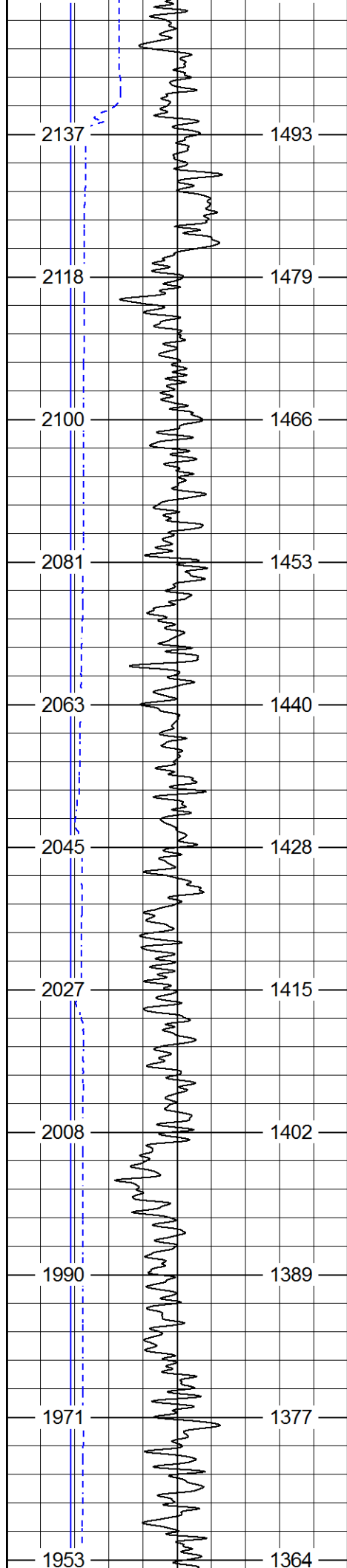


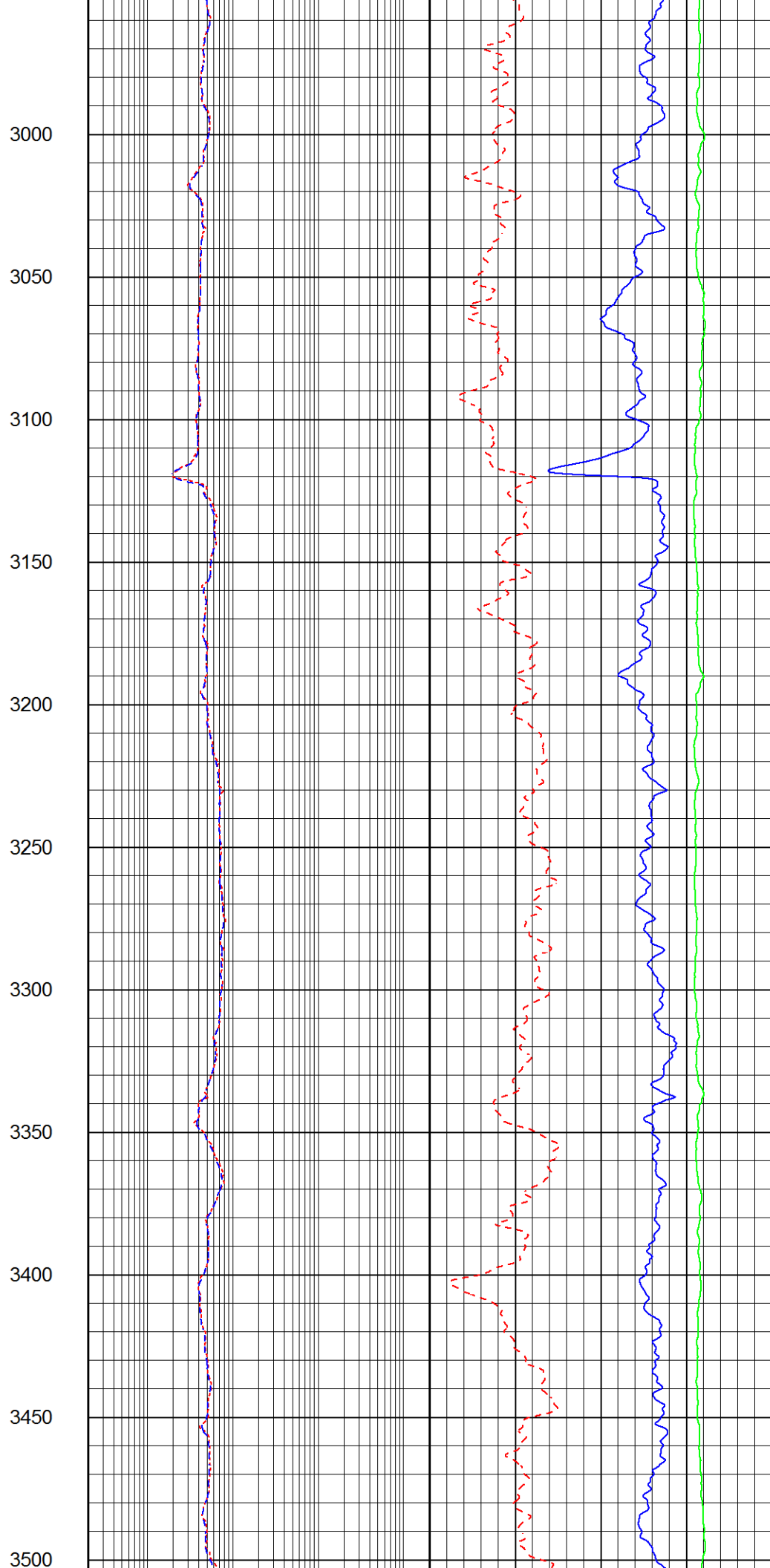
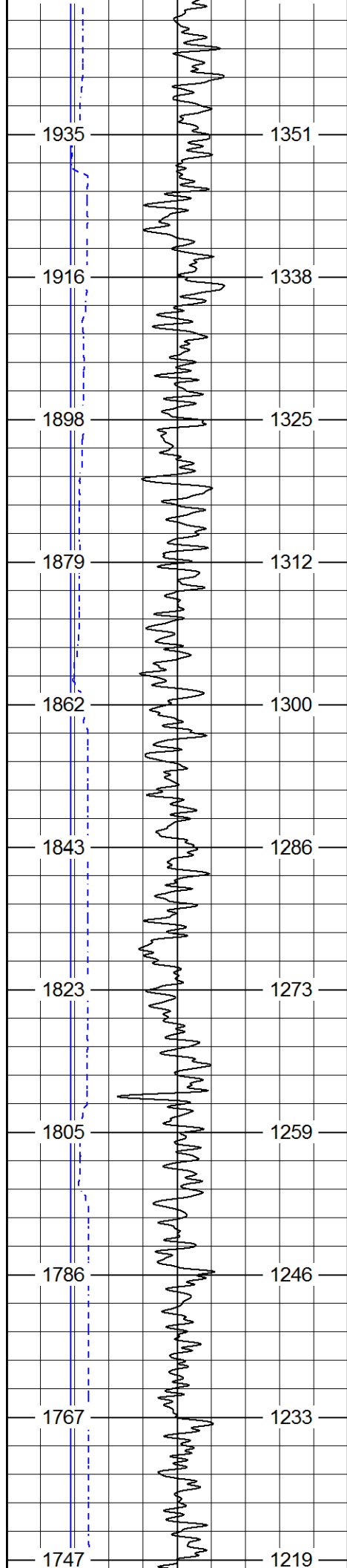
0	Gamma Ray (GAPI)	200
6	Caliper (in)	16
2.875	DCAL (in)	7.875

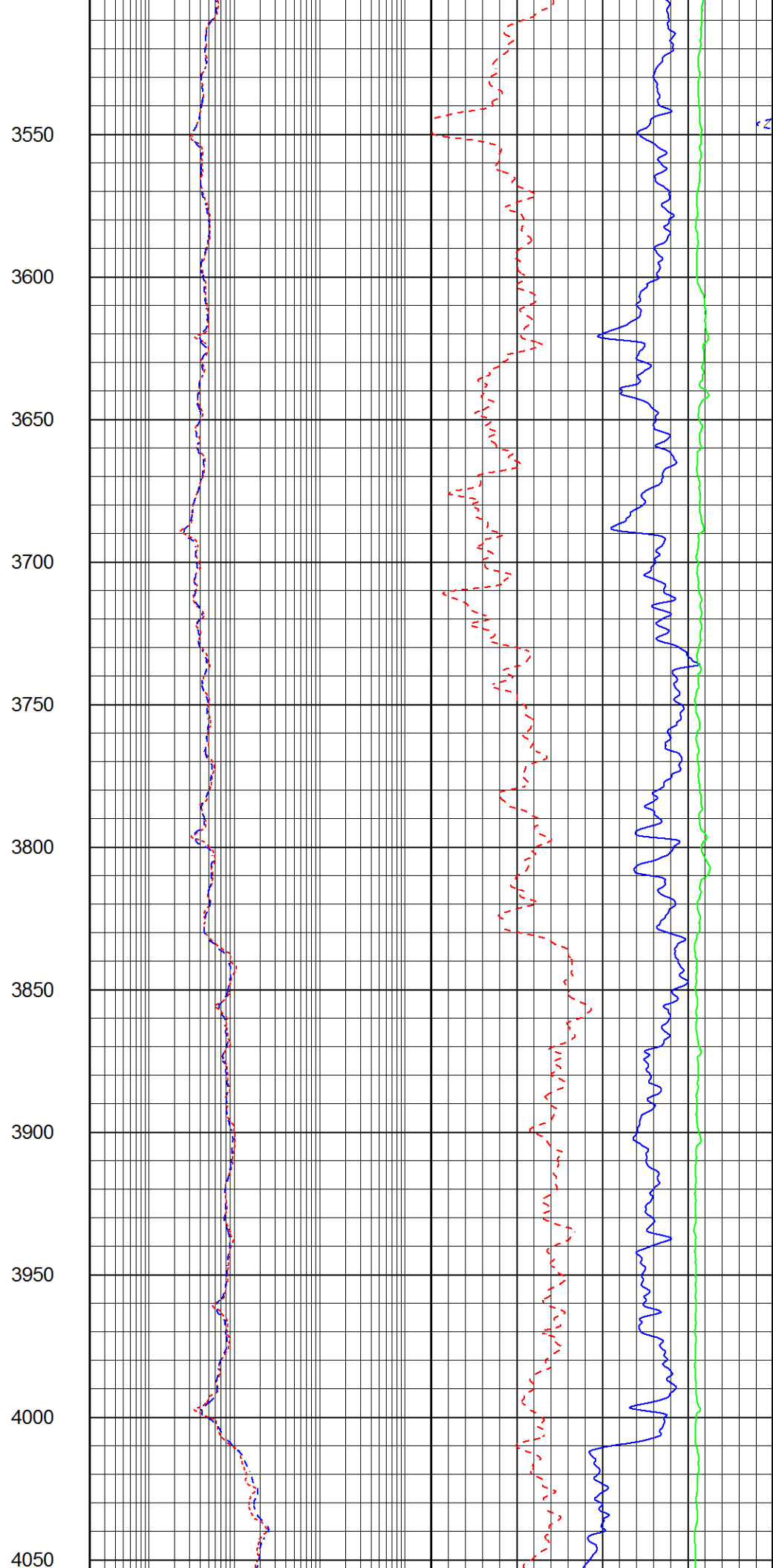
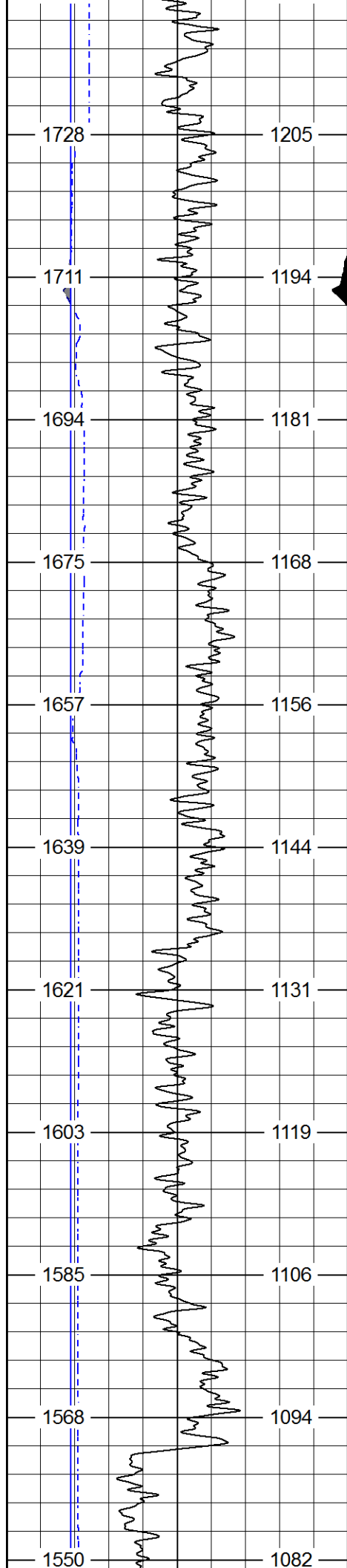
0.2	Medium Induction (Ohm-m) 2000	40	Density Porosity (pu)	0
0.2	Deep Induction (Ohm-m) 2000	40	Neutron Porosity (pu)	0
RHOC				
-0.5 (g/cc)				0.5

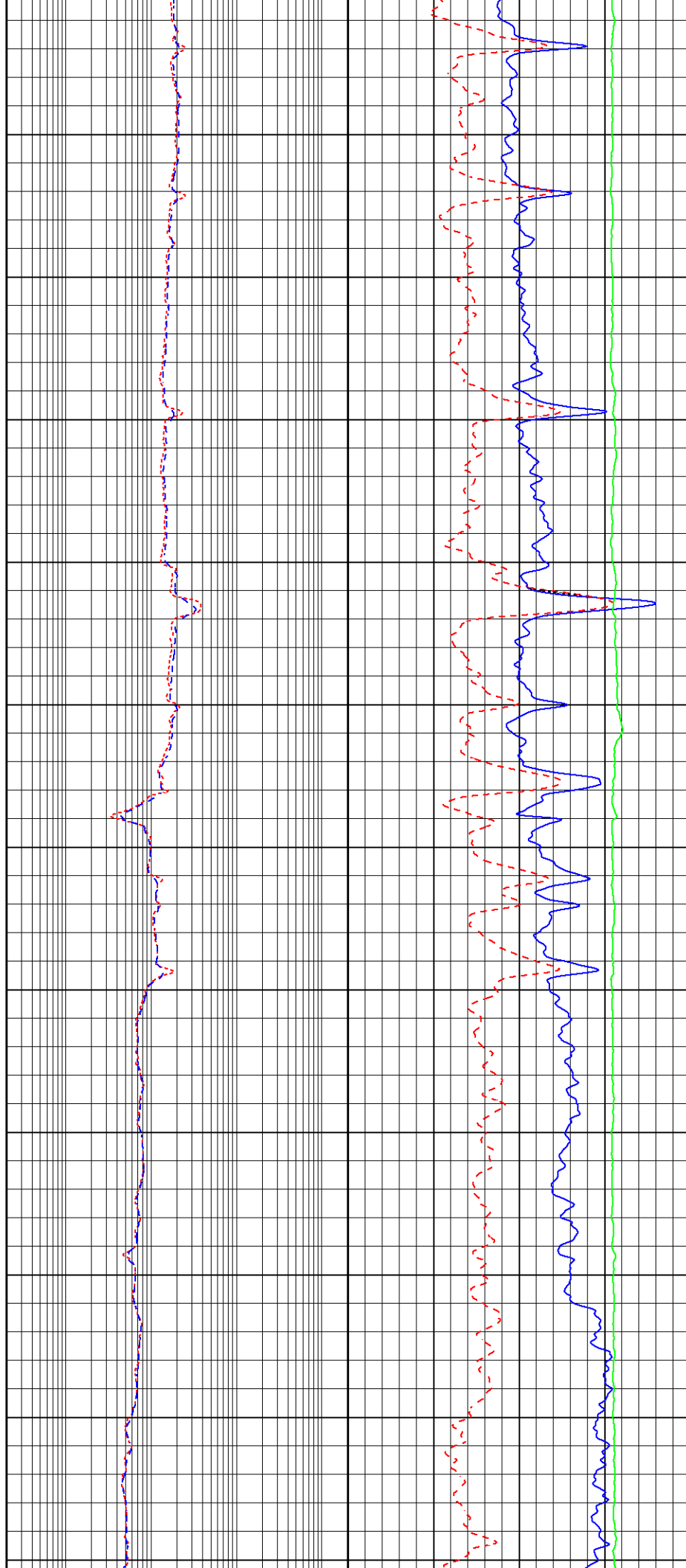
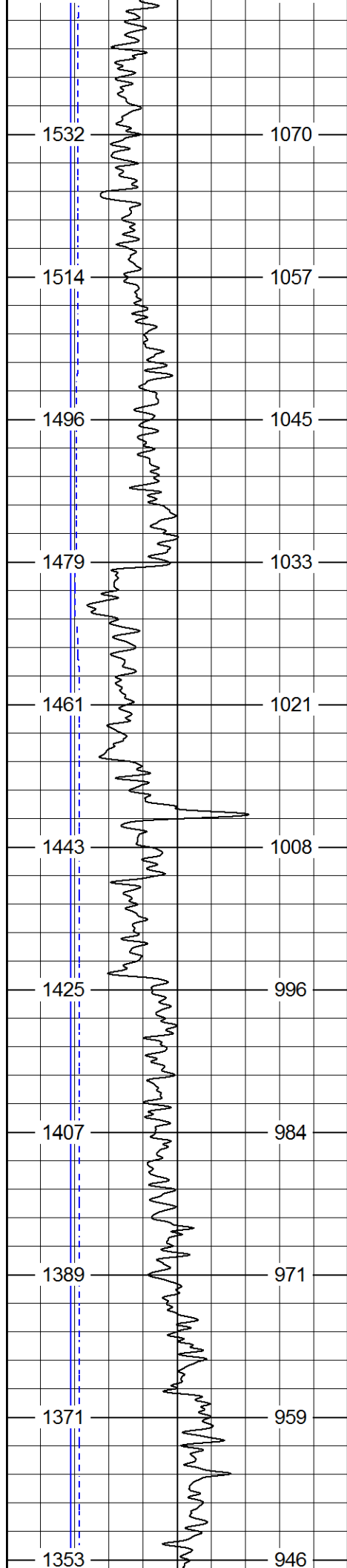


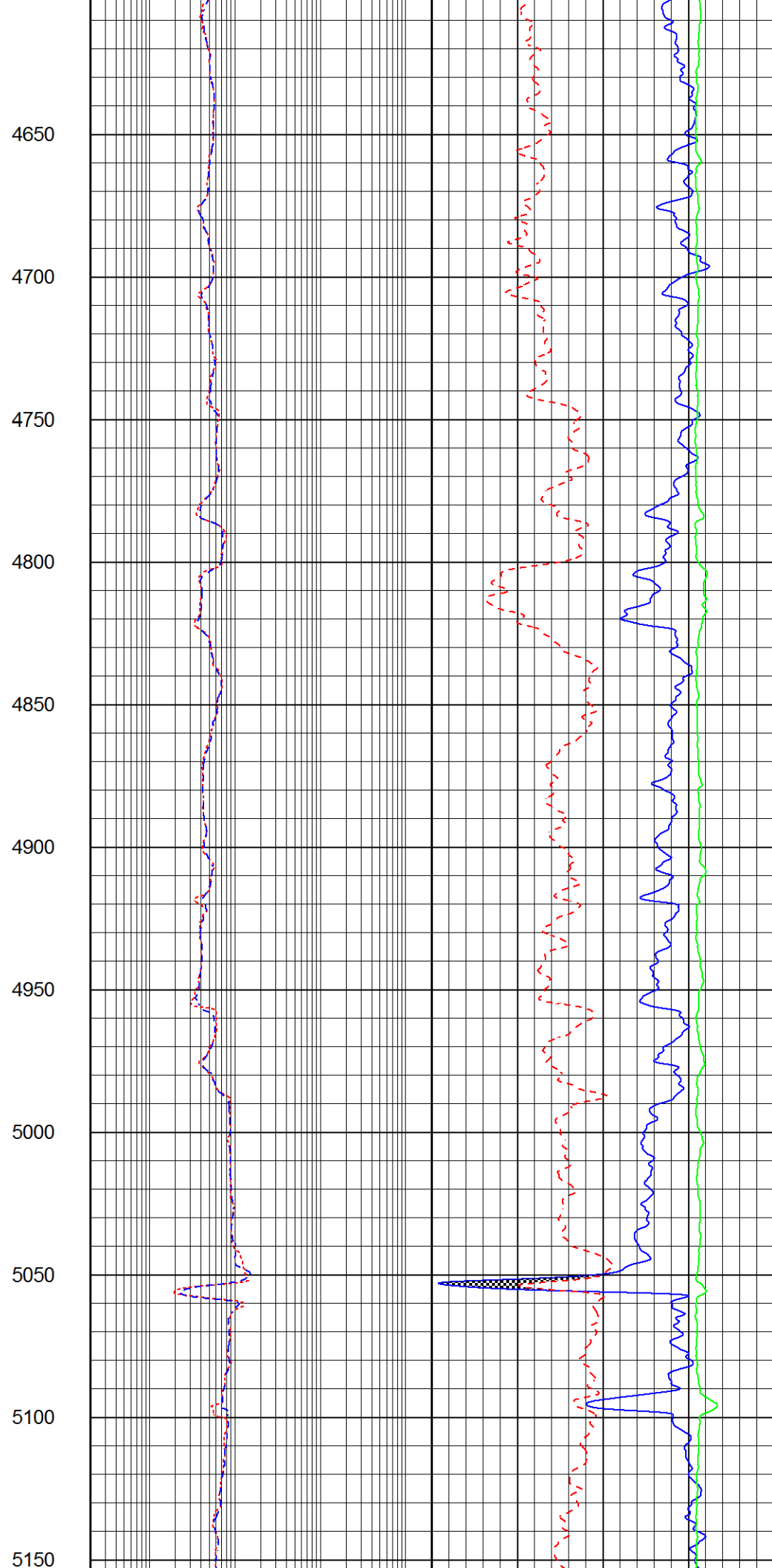
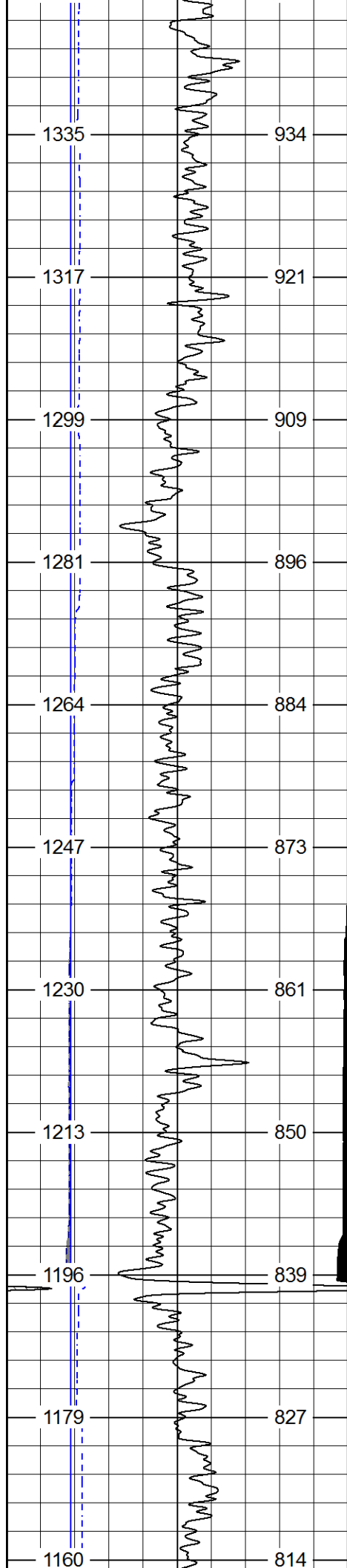


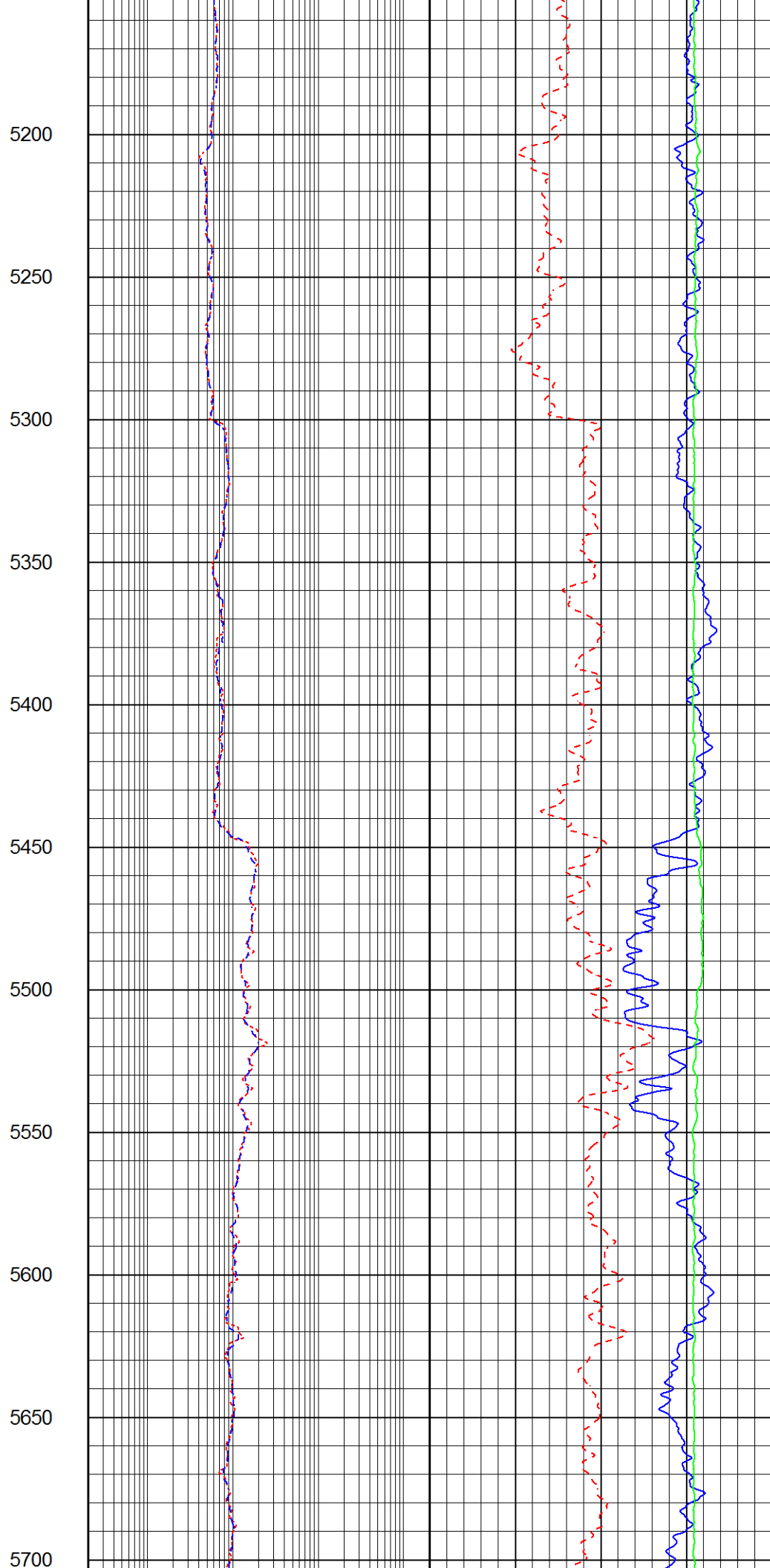
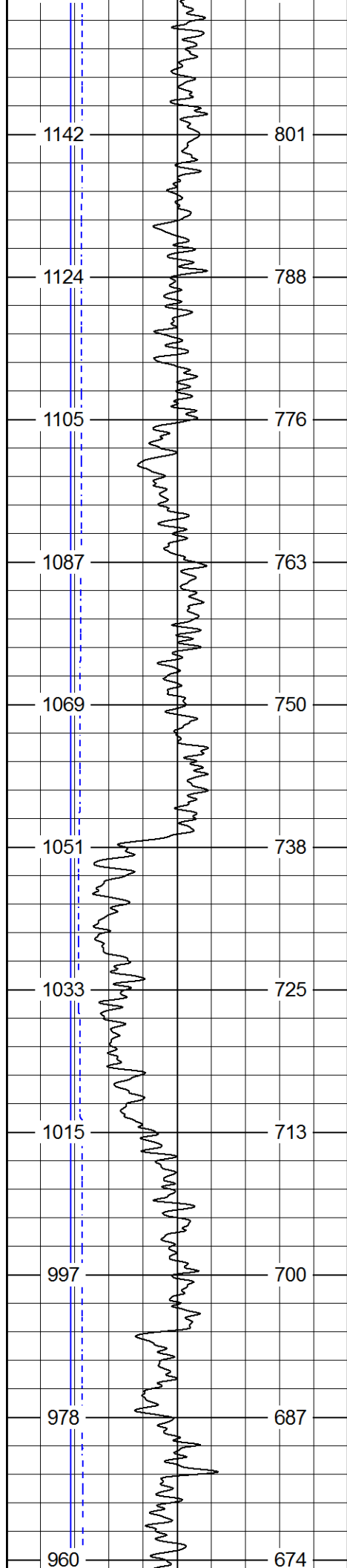


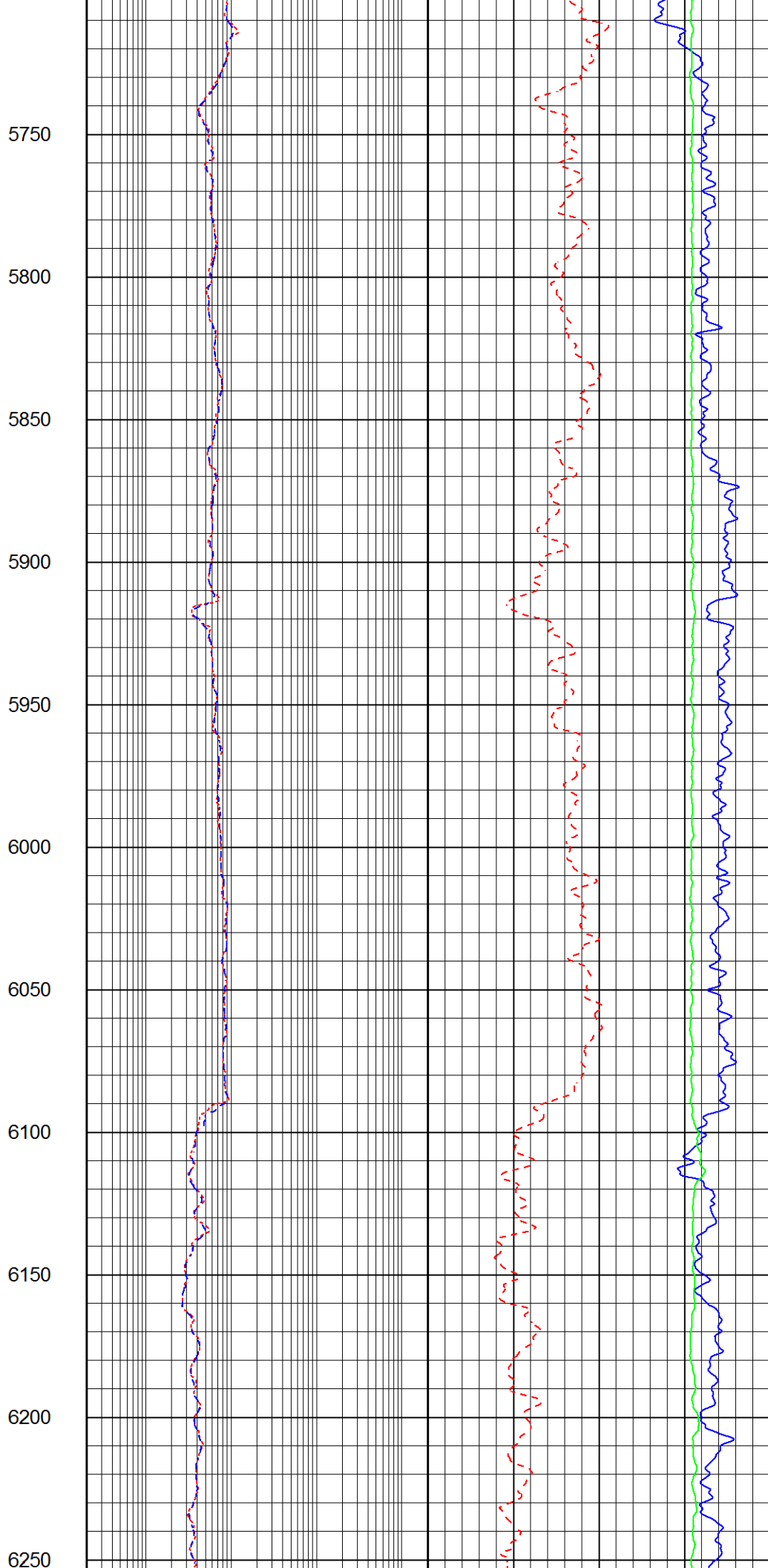
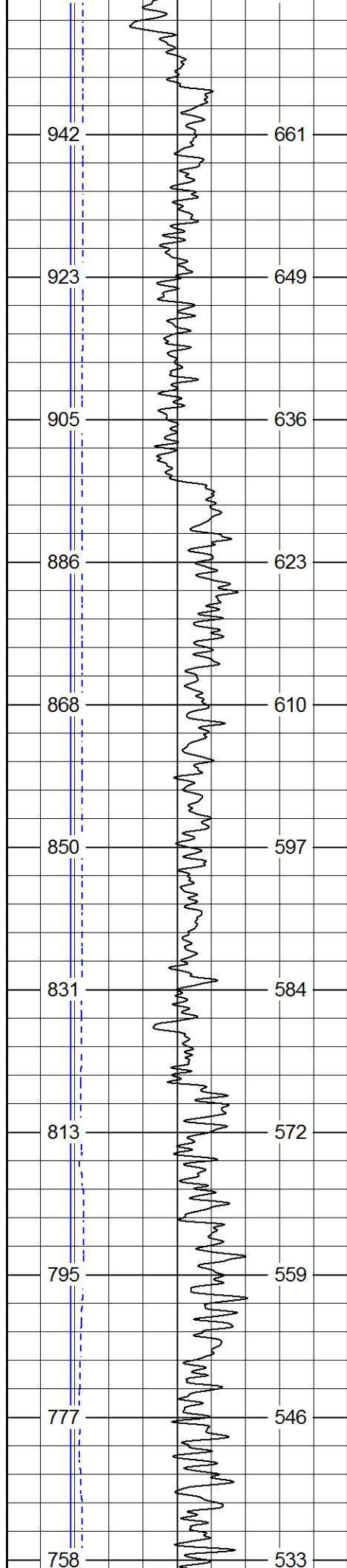


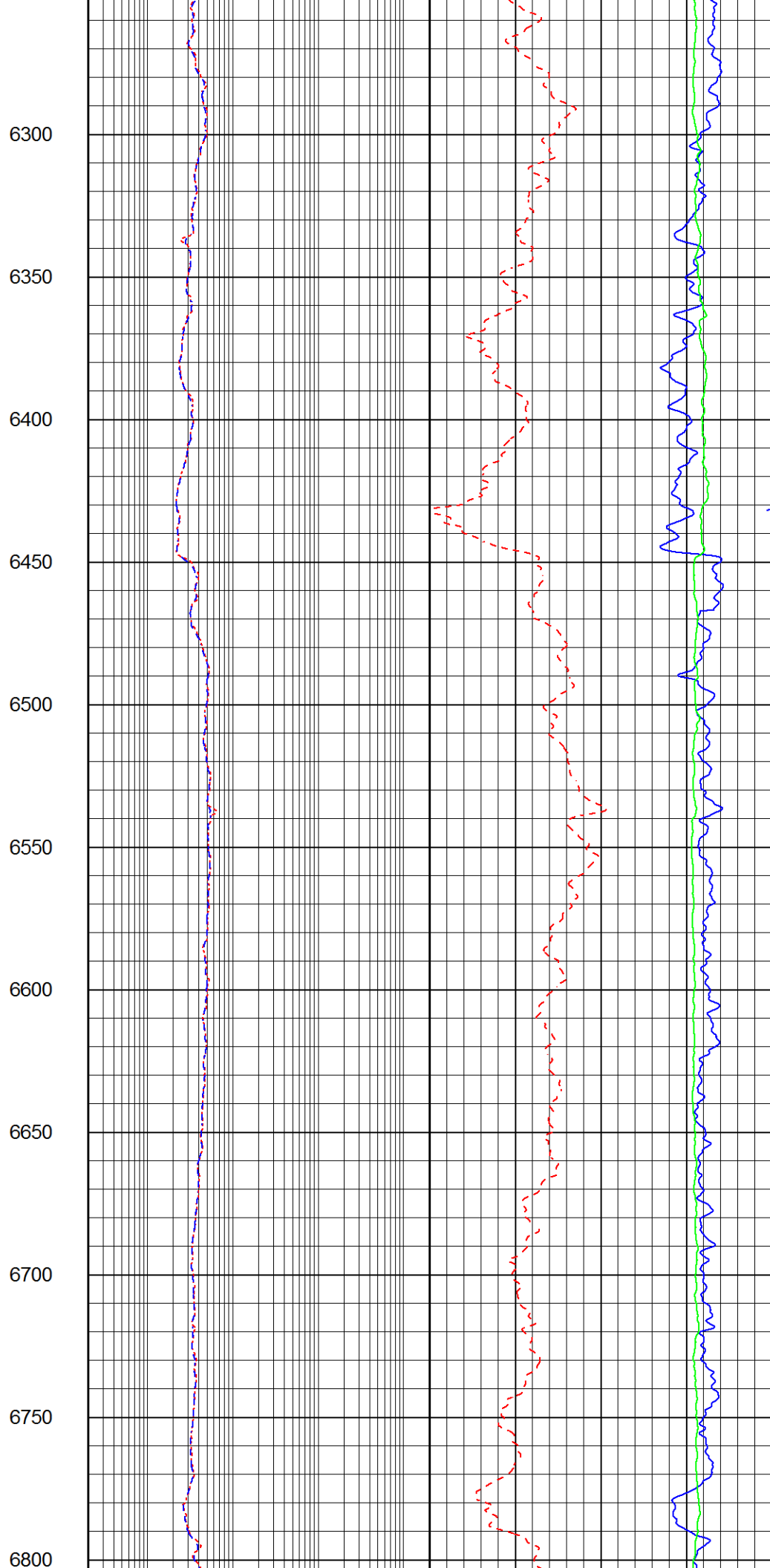
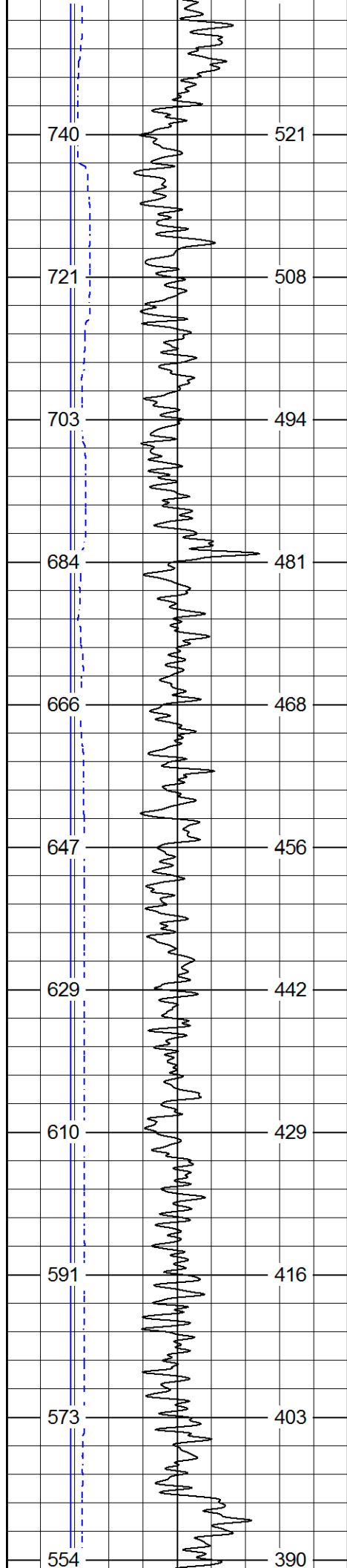


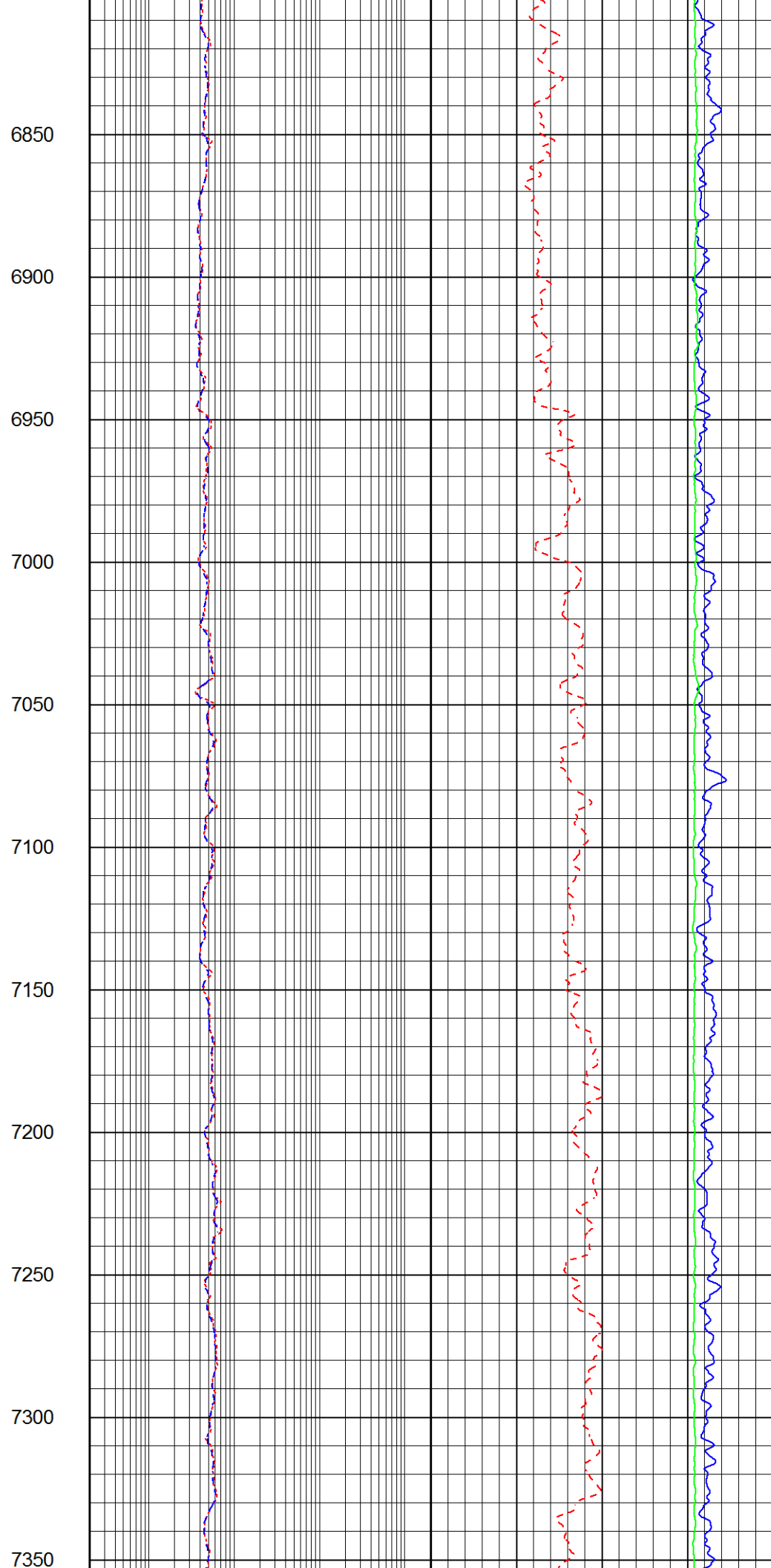
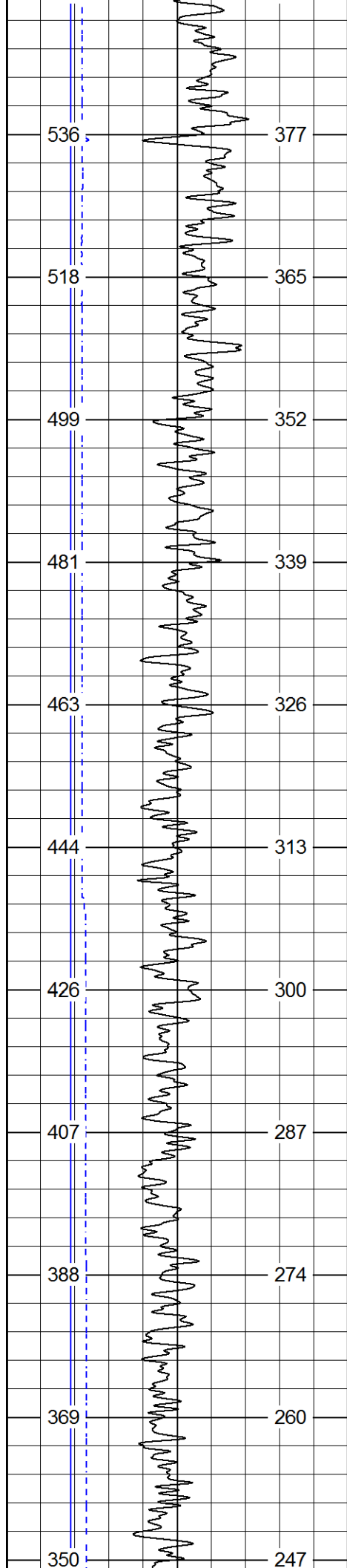


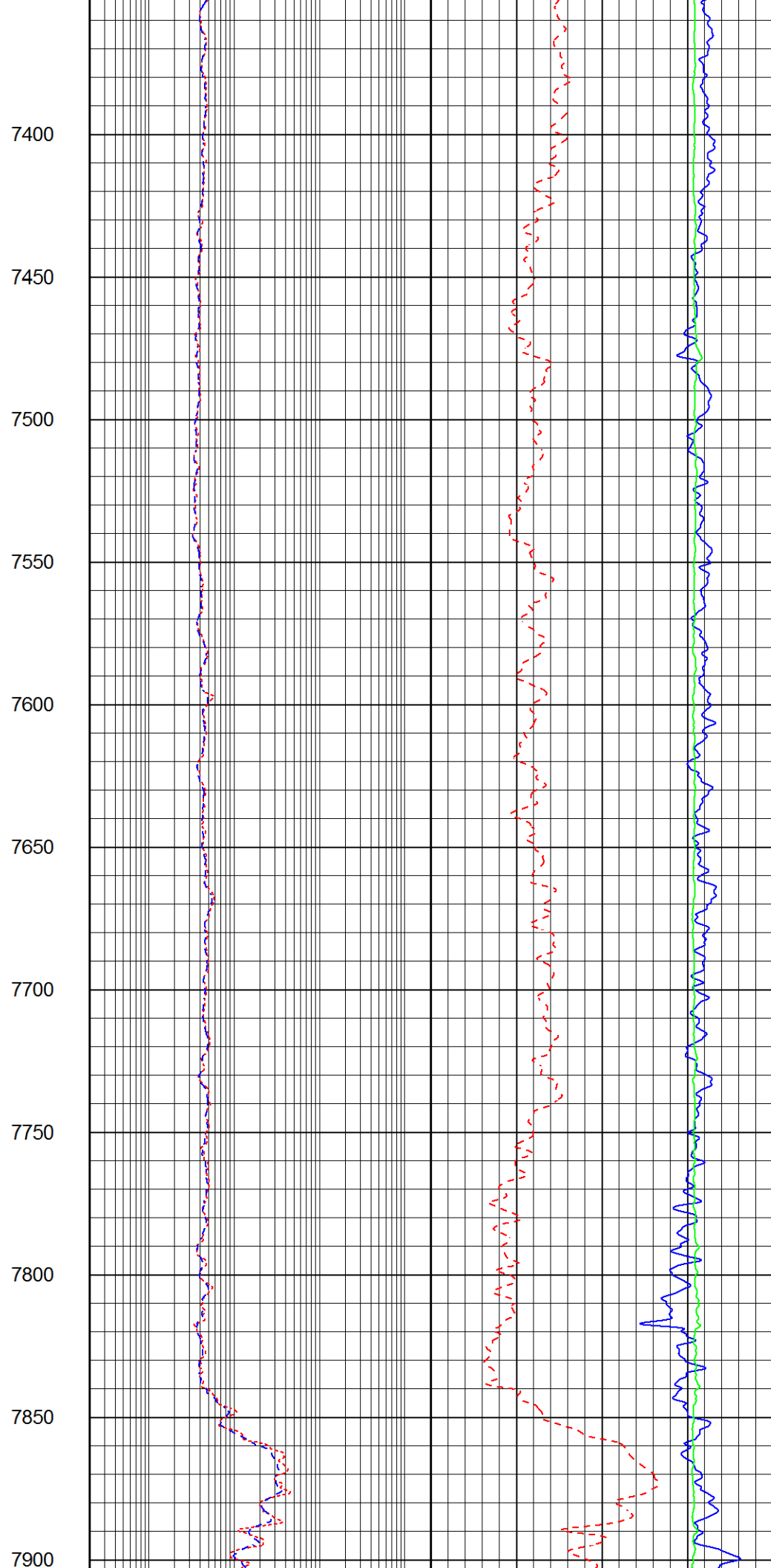
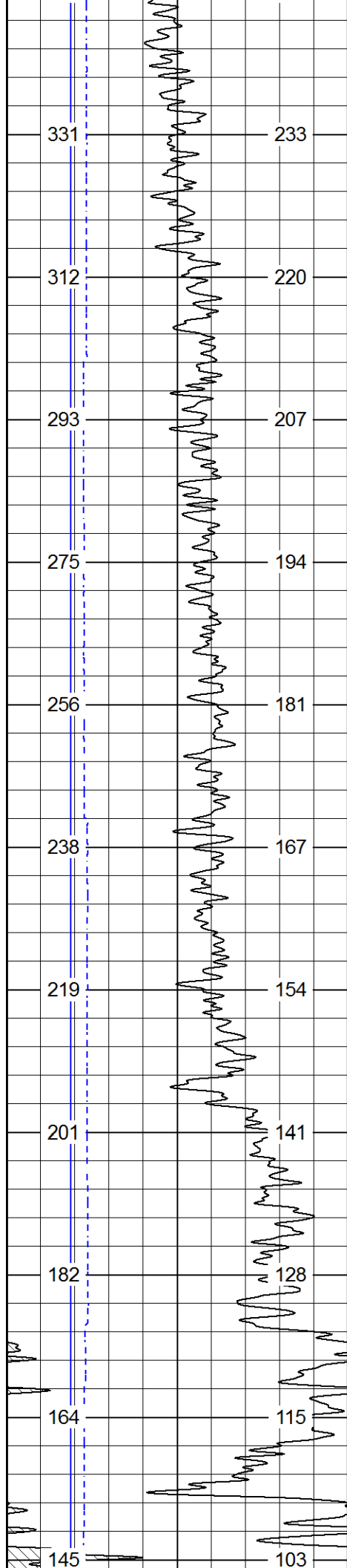


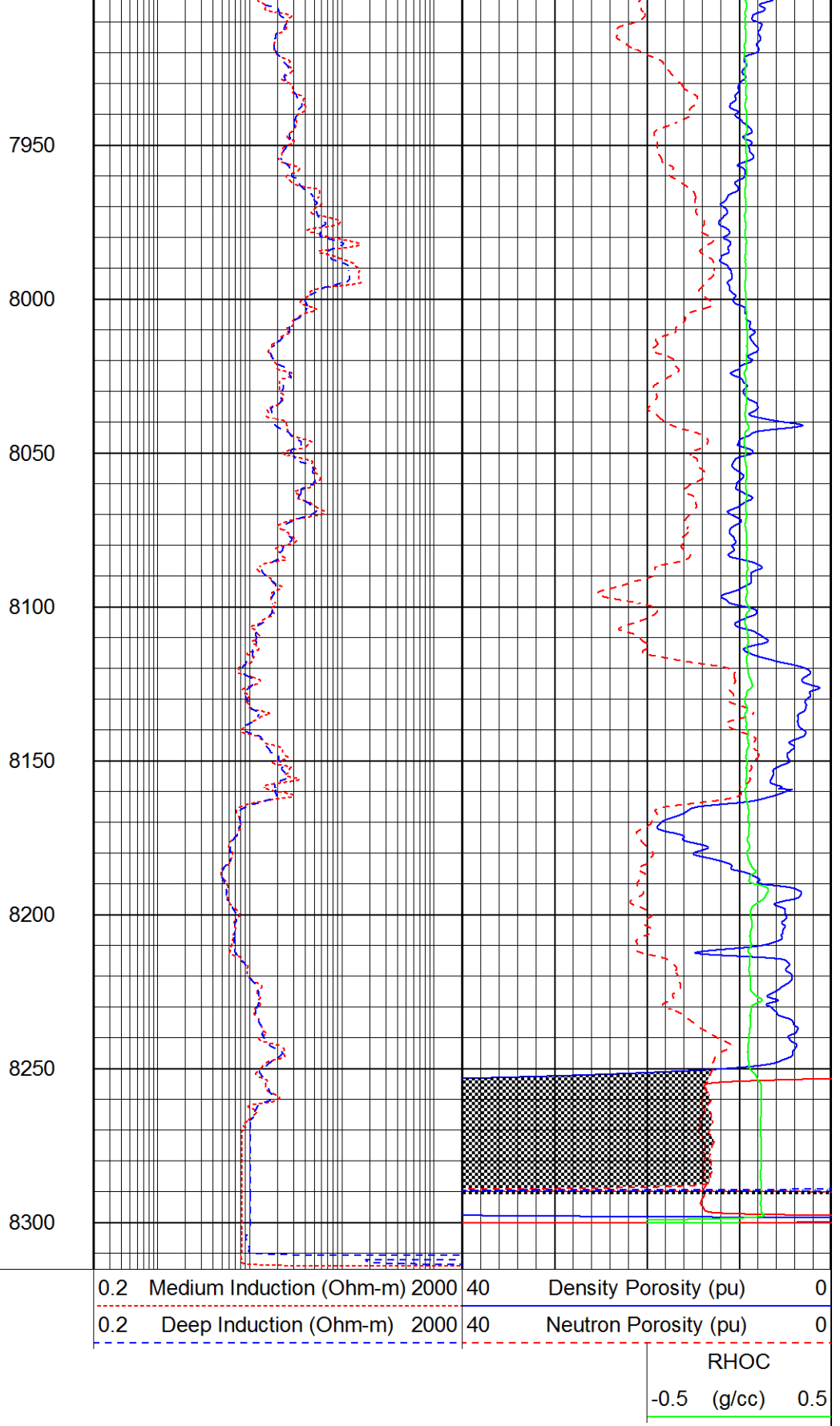
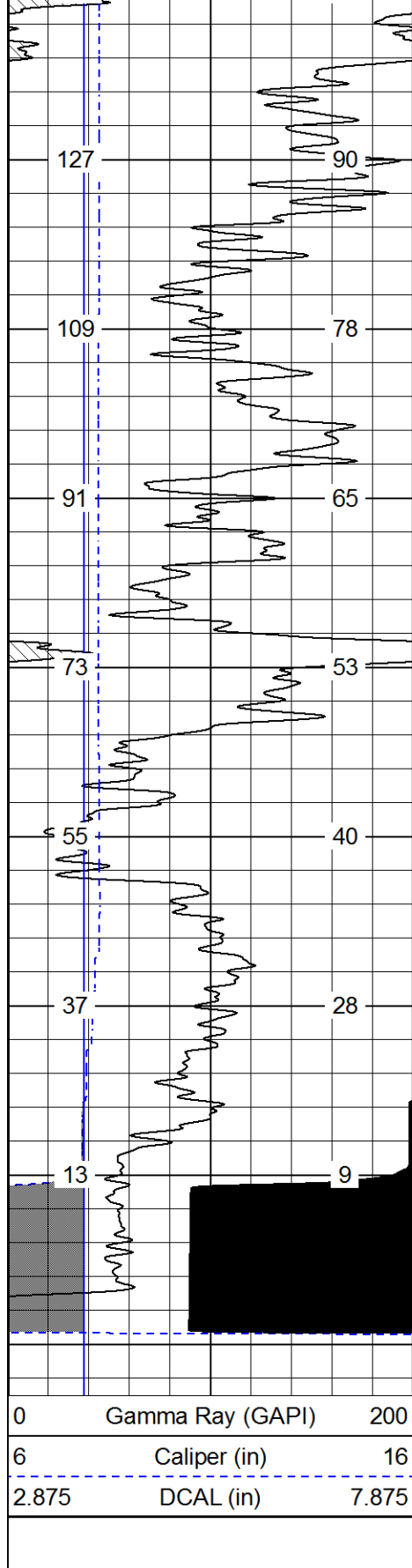




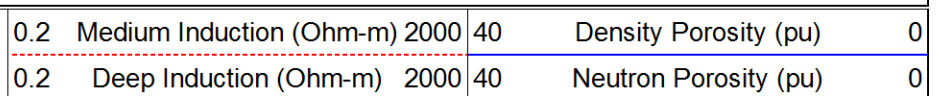
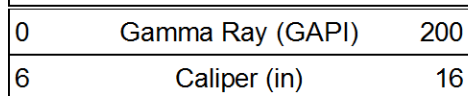








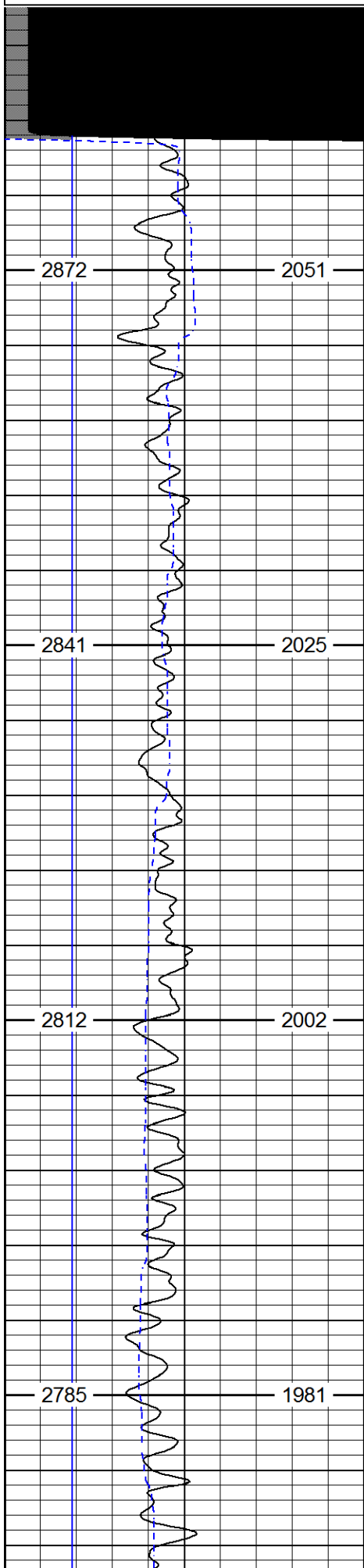
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 Dataset Pathname final
 Presentation Format EXTRAC~1
 Dataset Creation Tue Apr 26 10:08:10 2016
 Charted by Depth in Feet scaled 1:240



2.875 DCAL (in) 7.875

RHOC

-0.5 (g/cc) 0.5

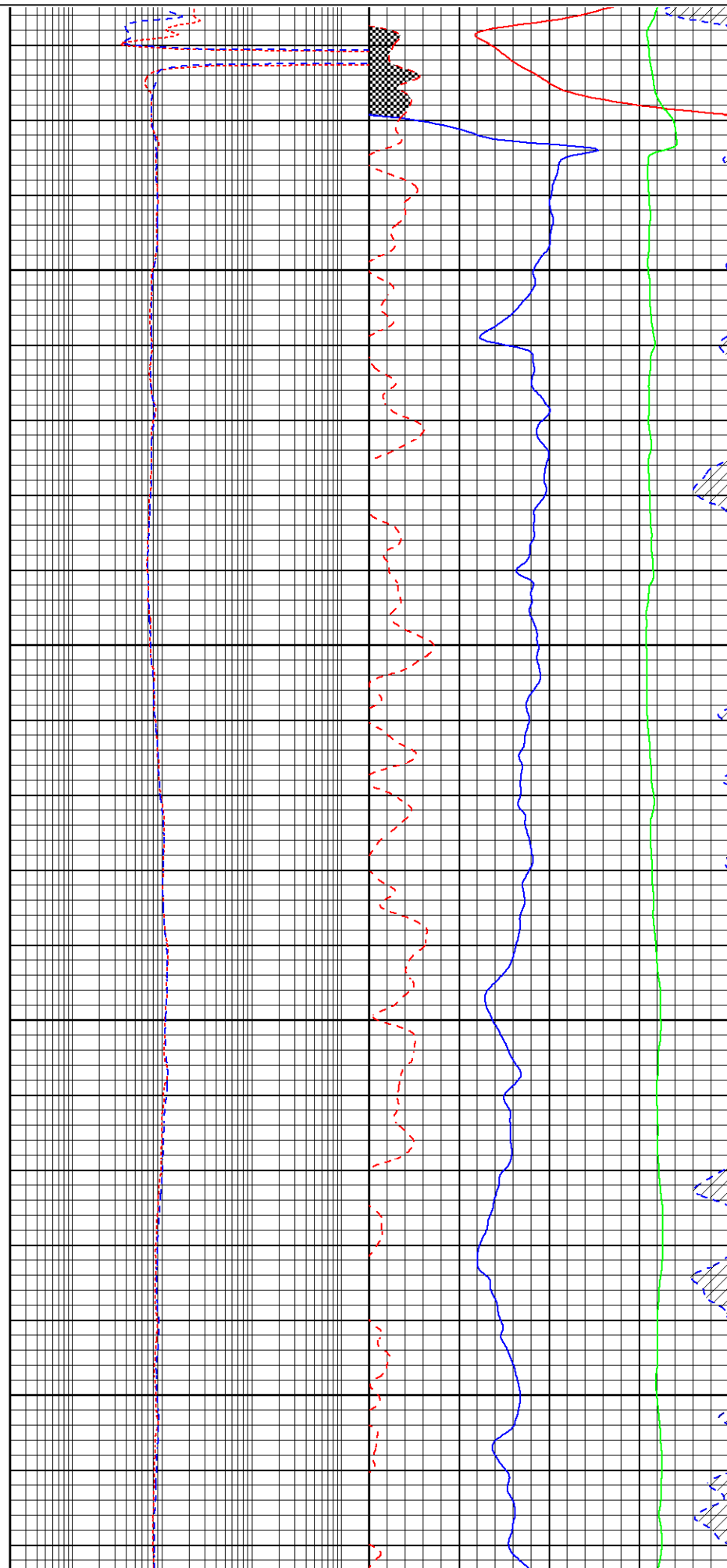


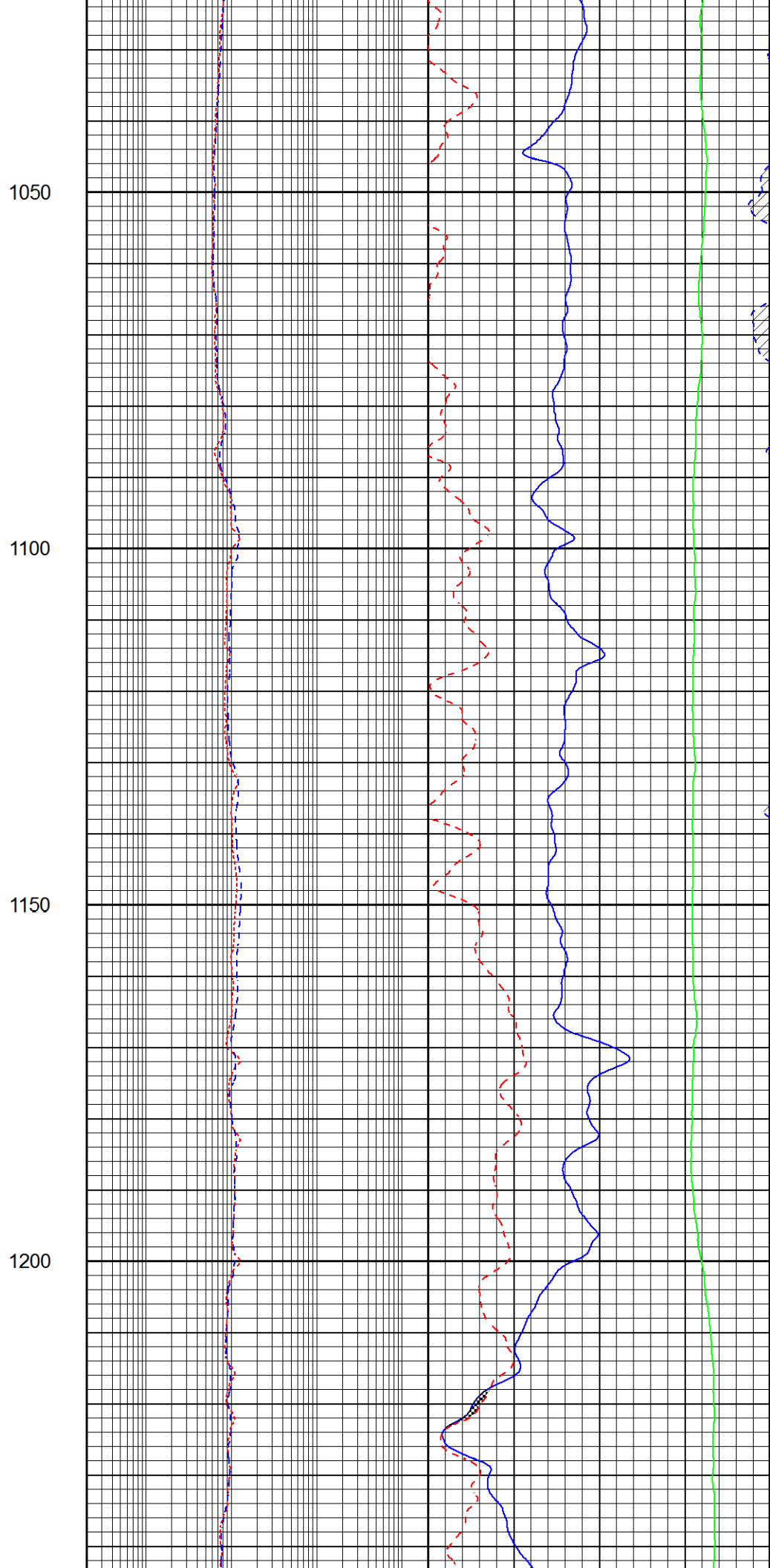
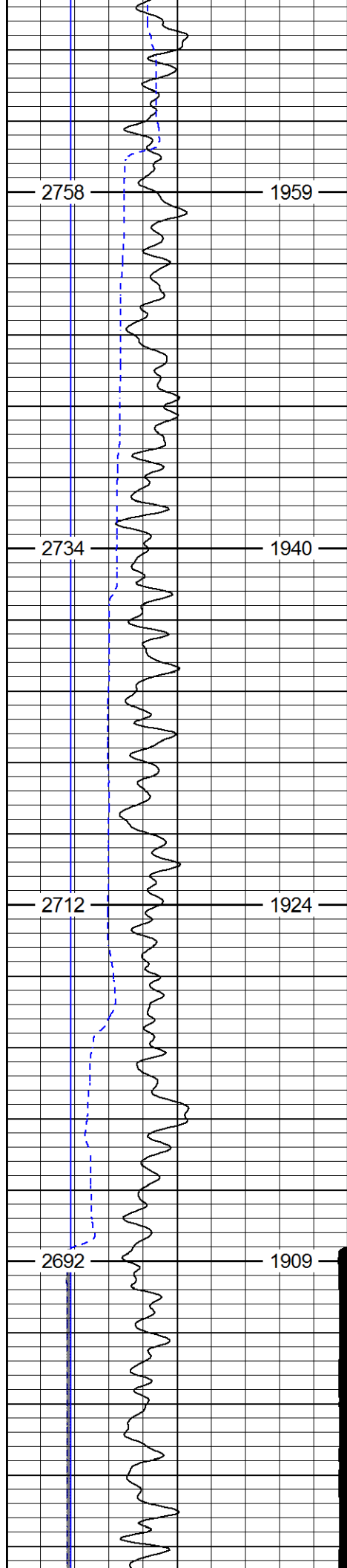
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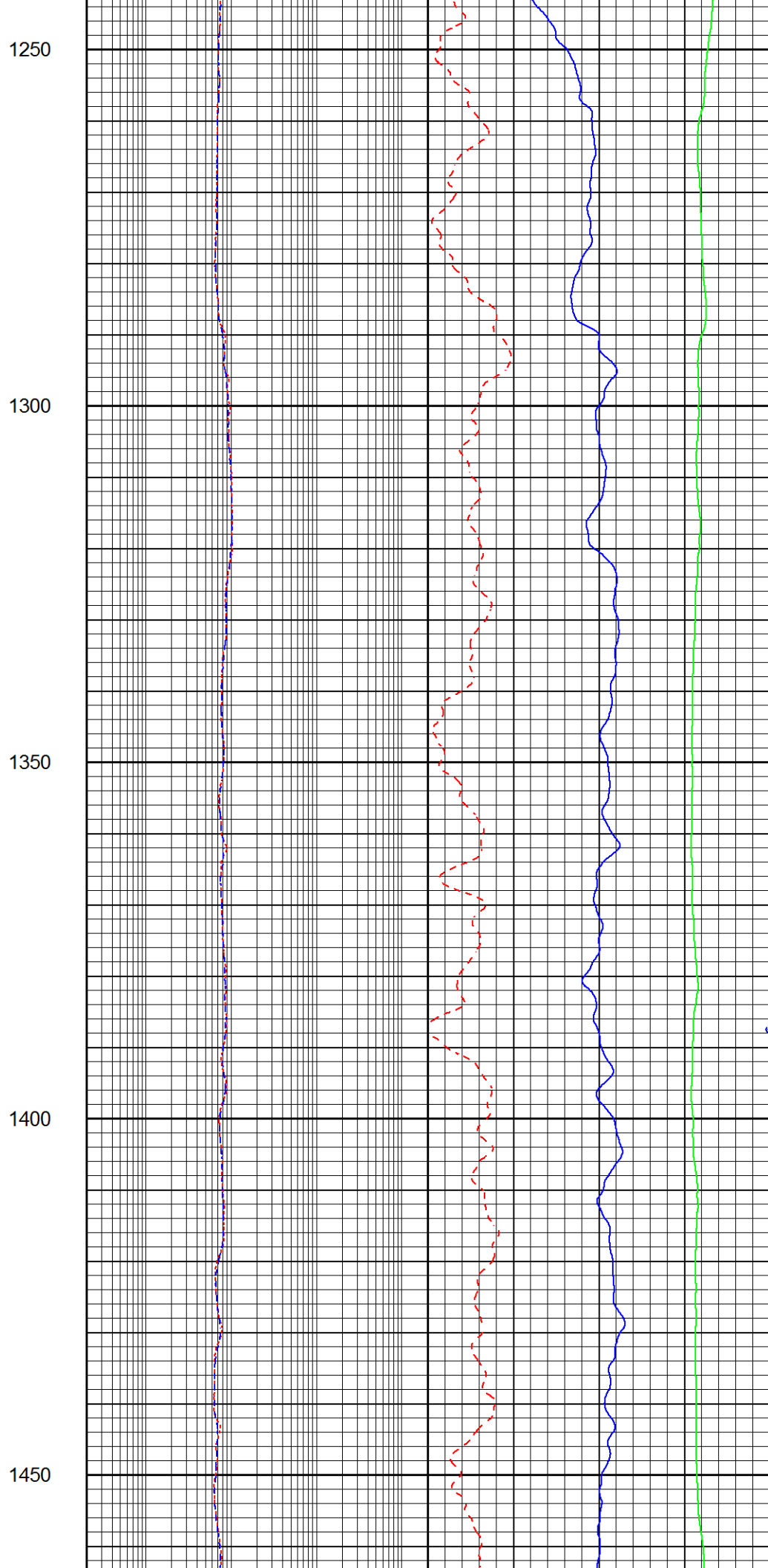
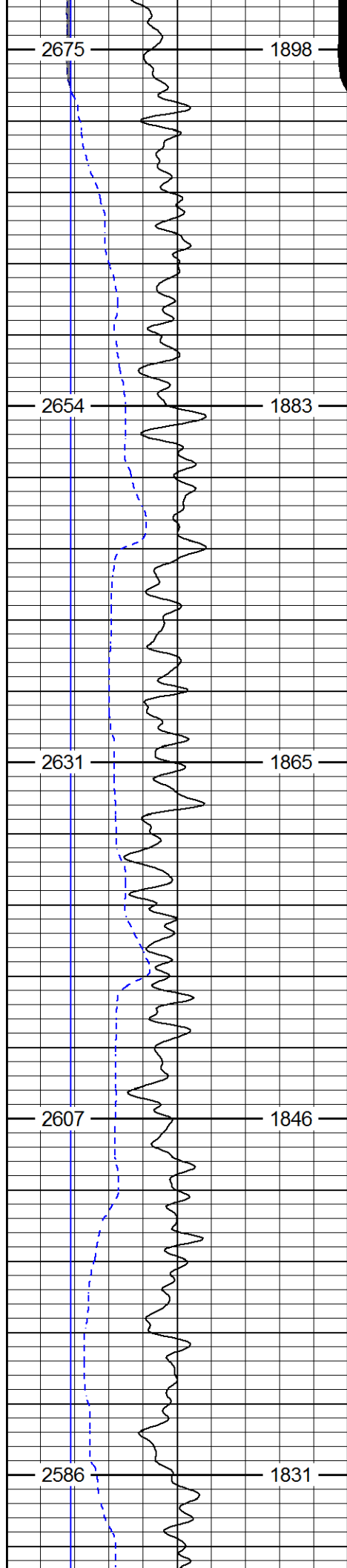
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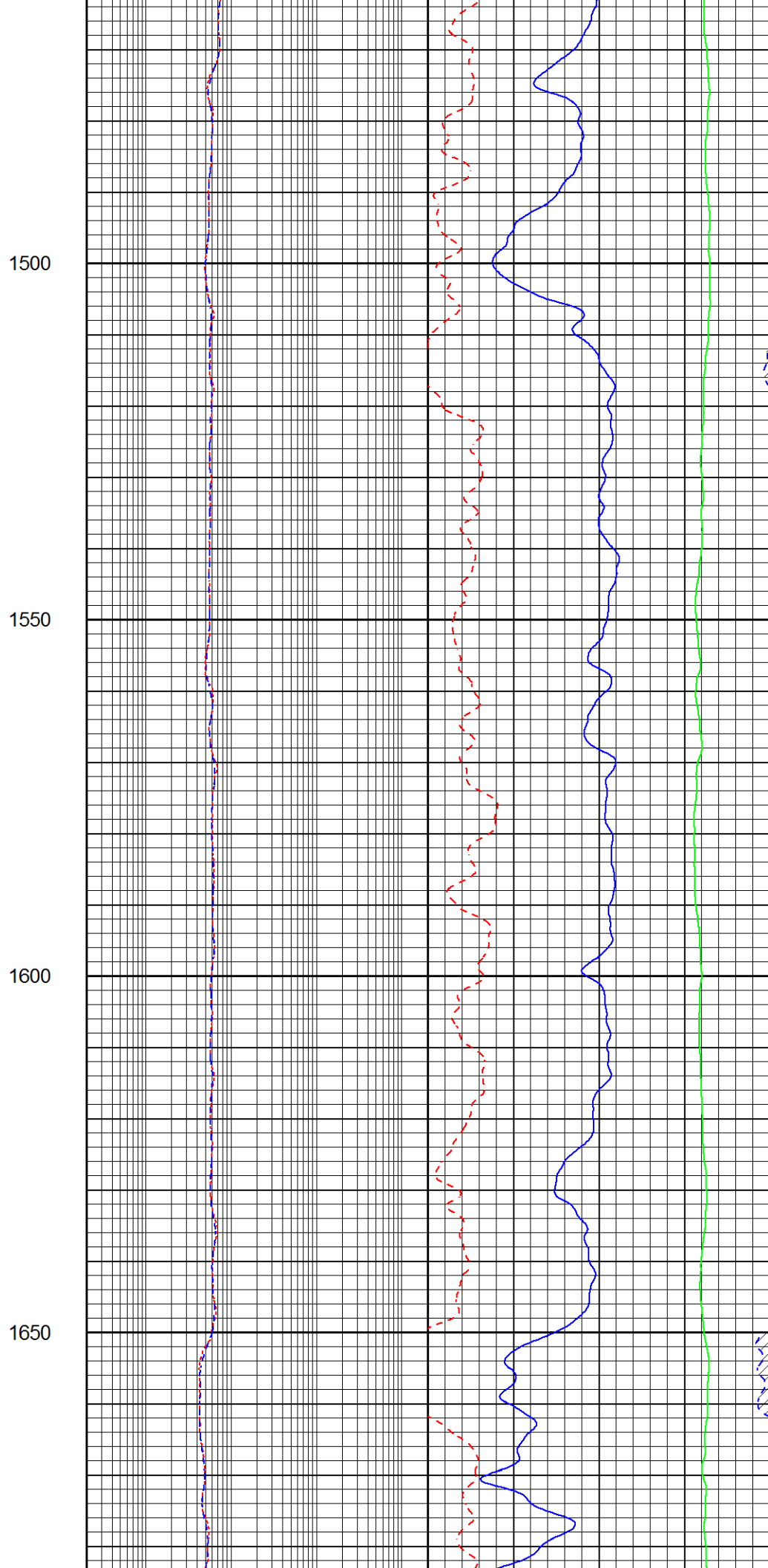
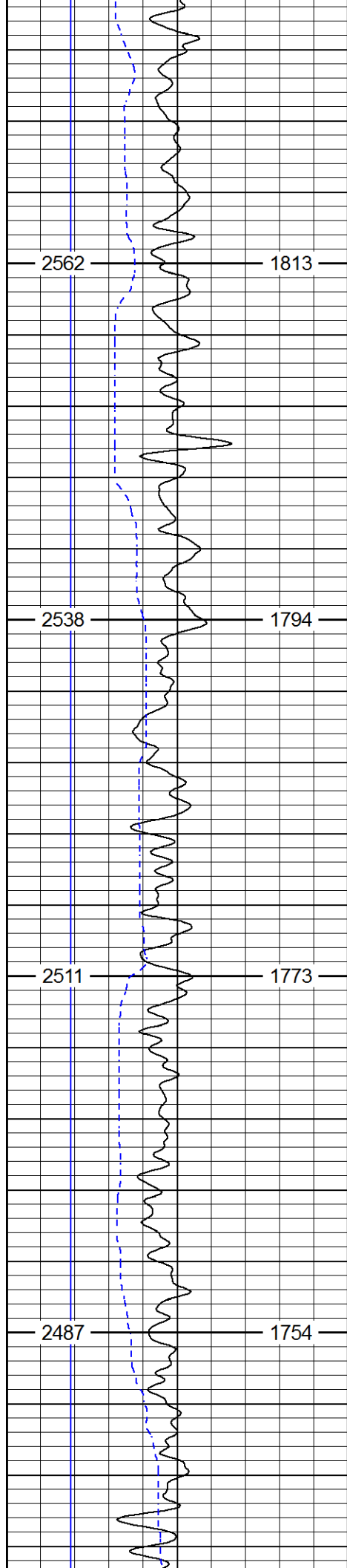
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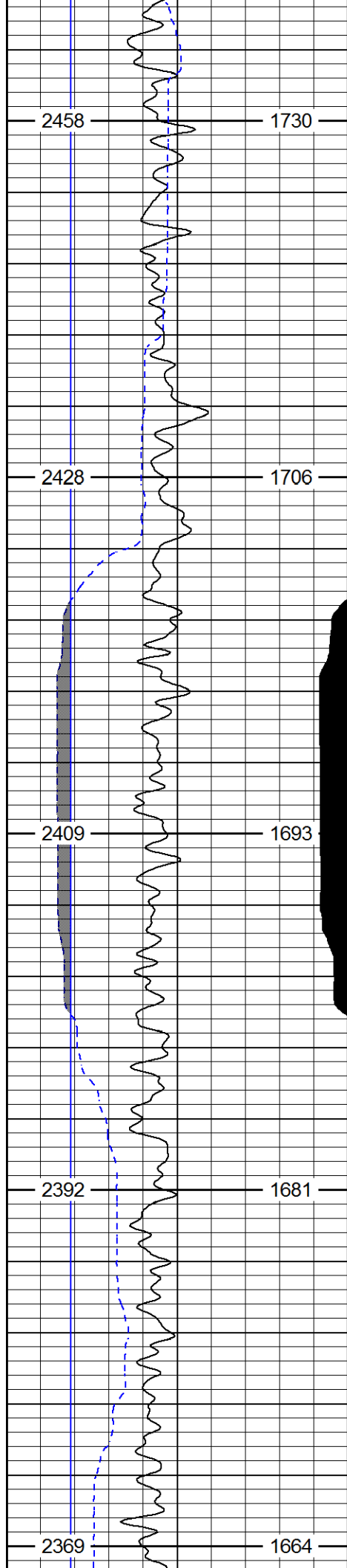
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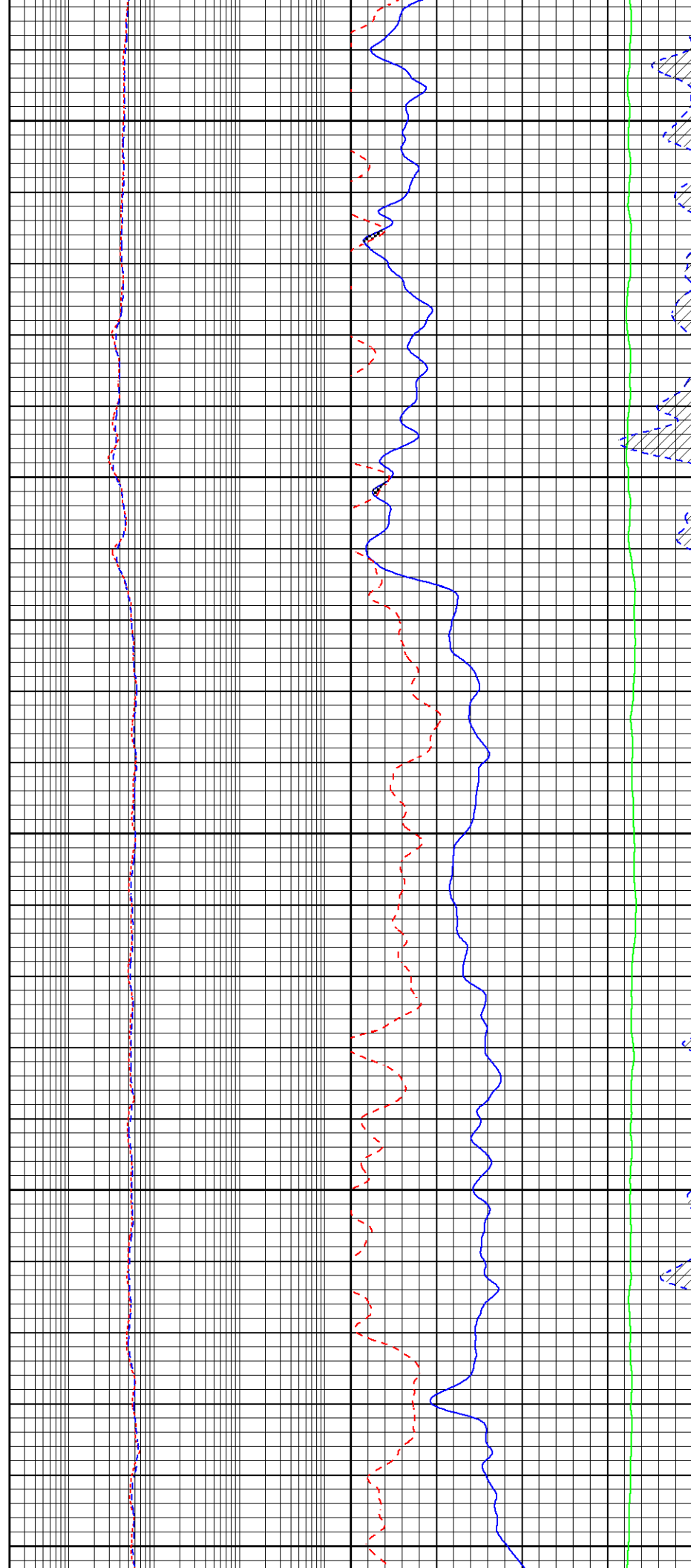
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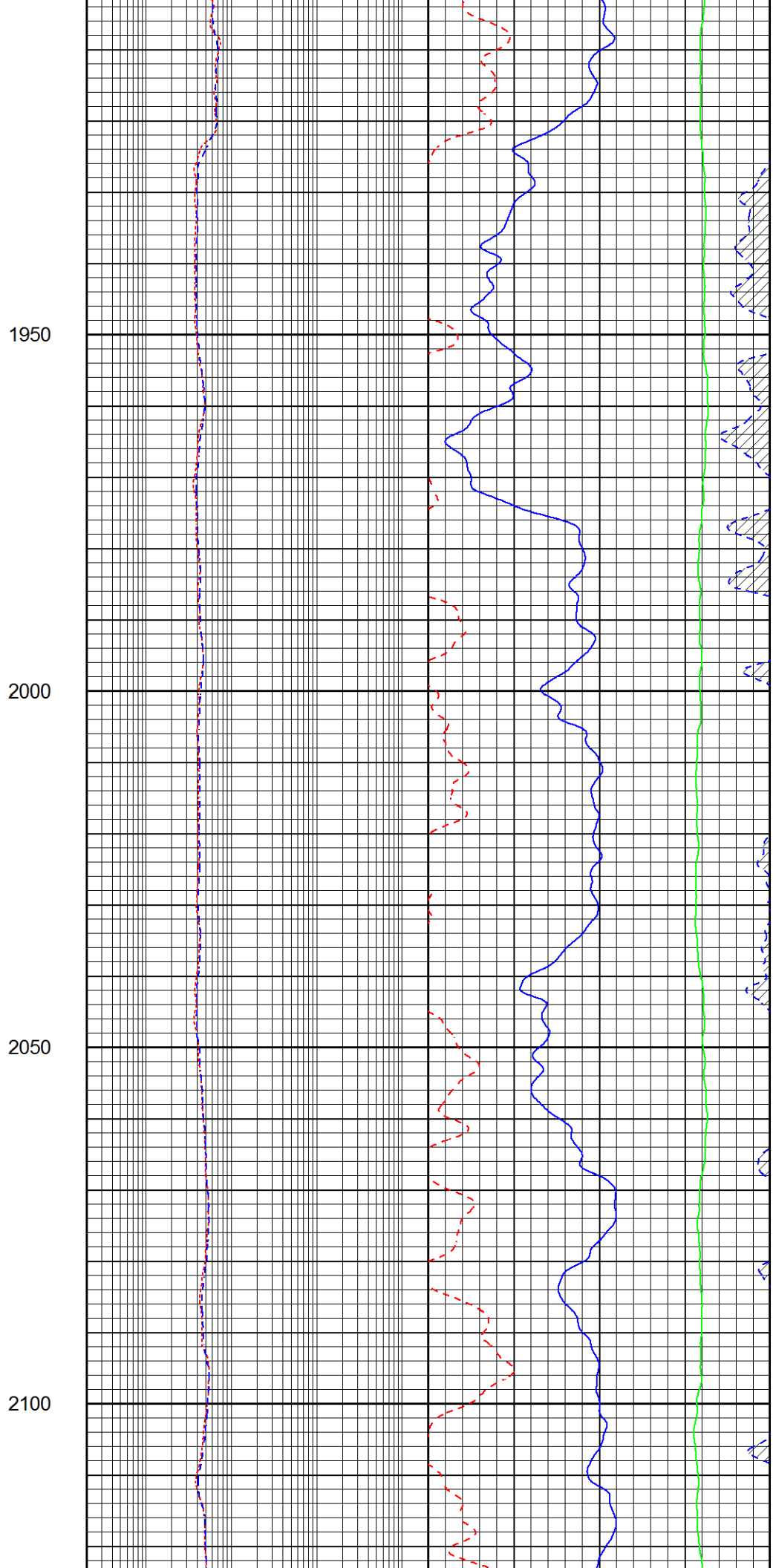
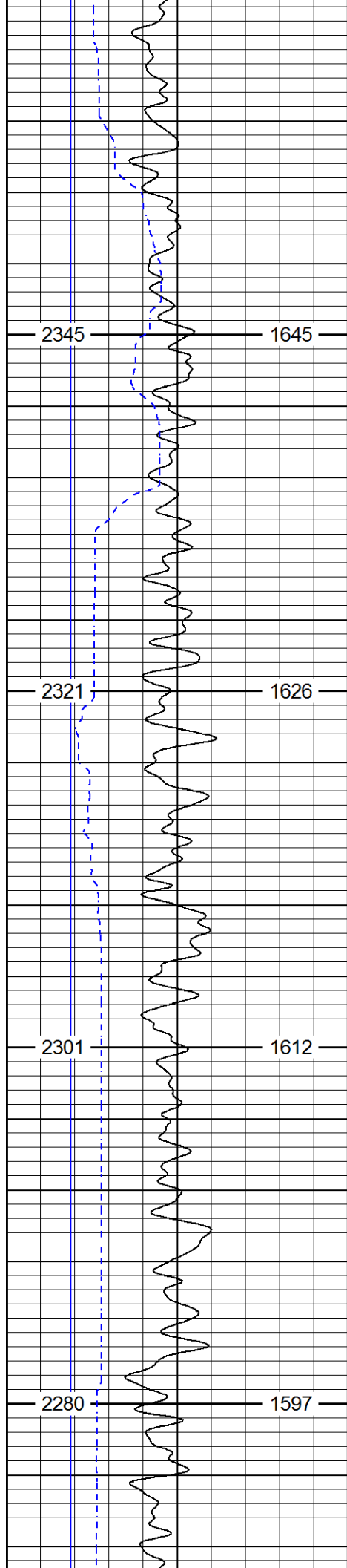
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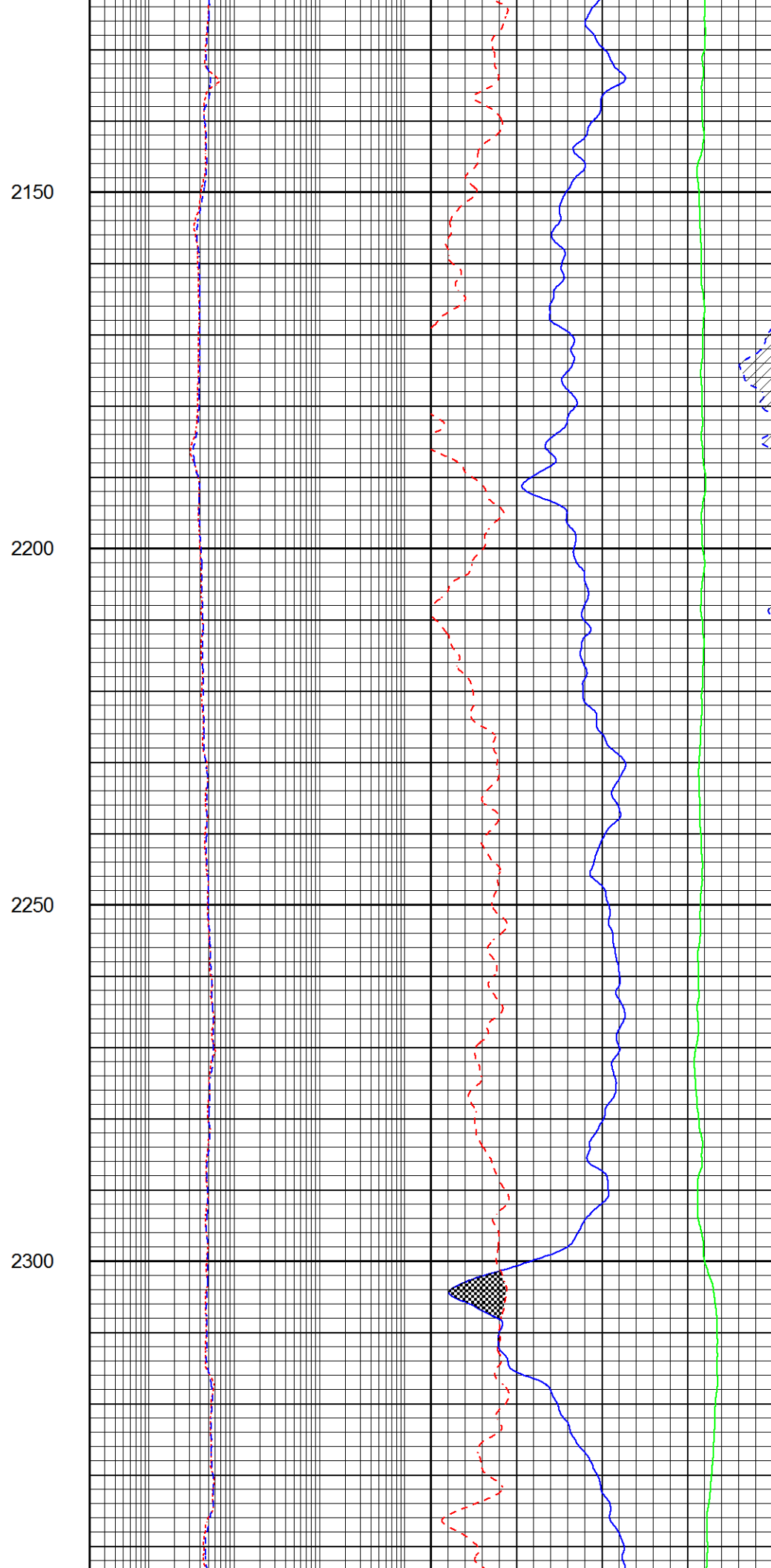
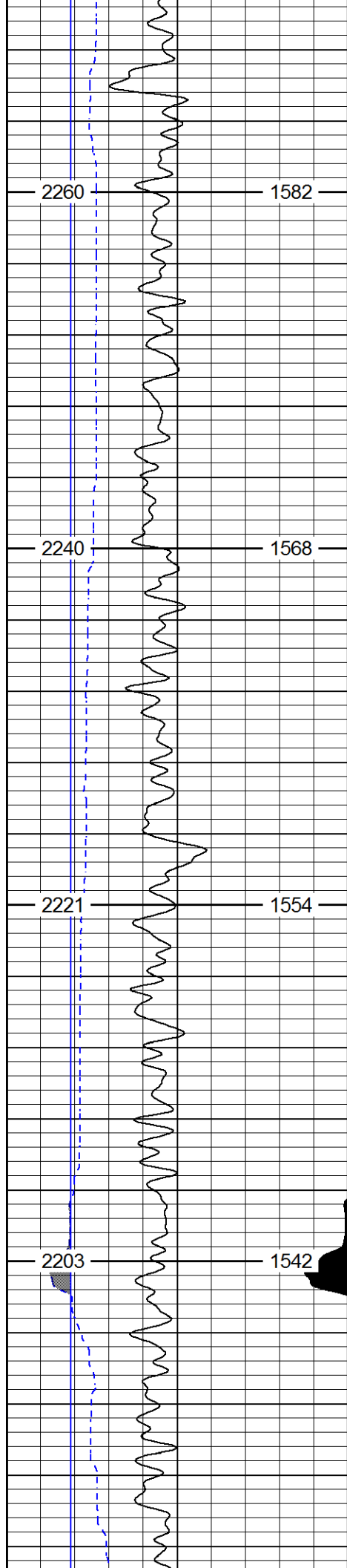
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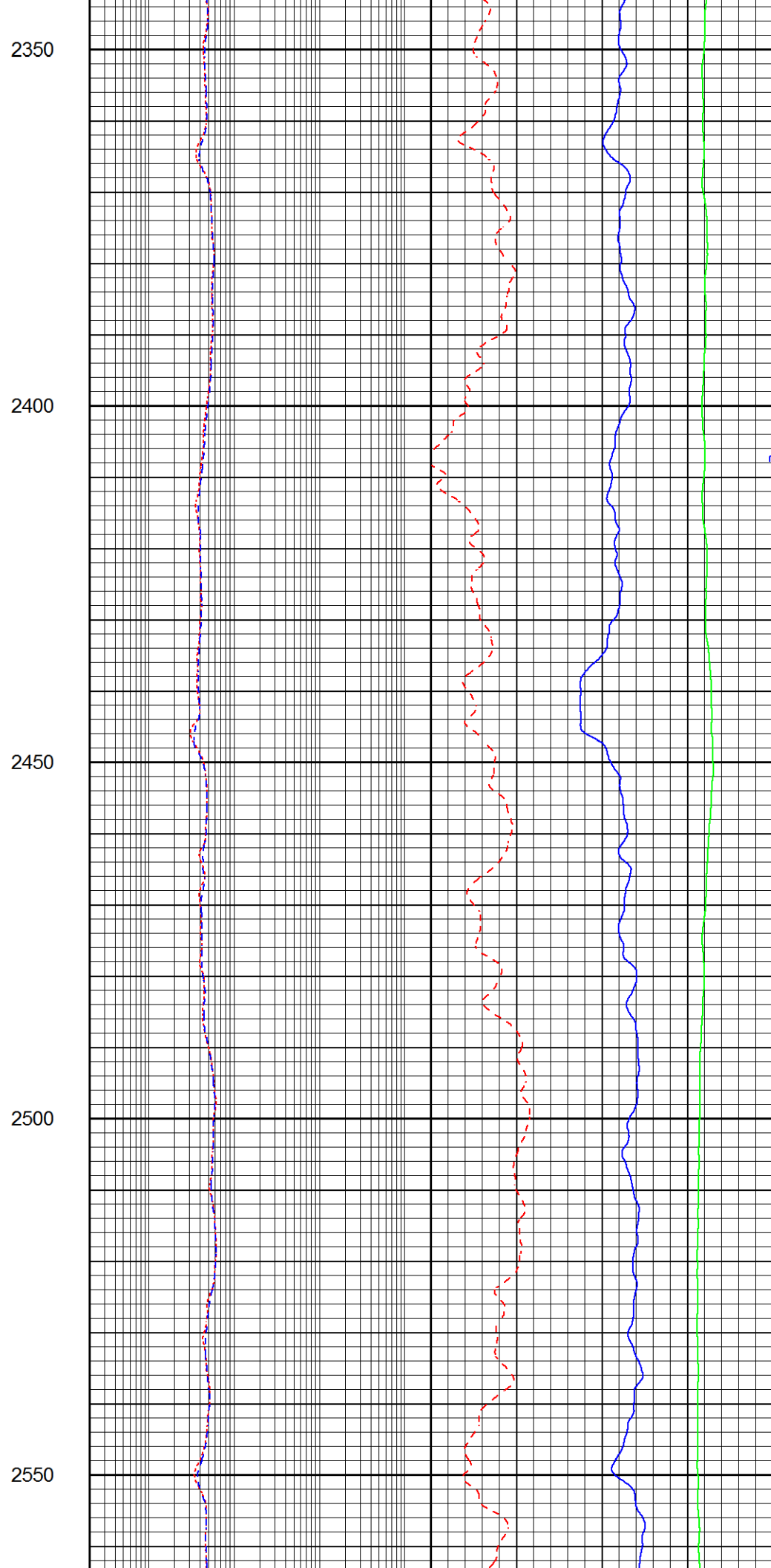
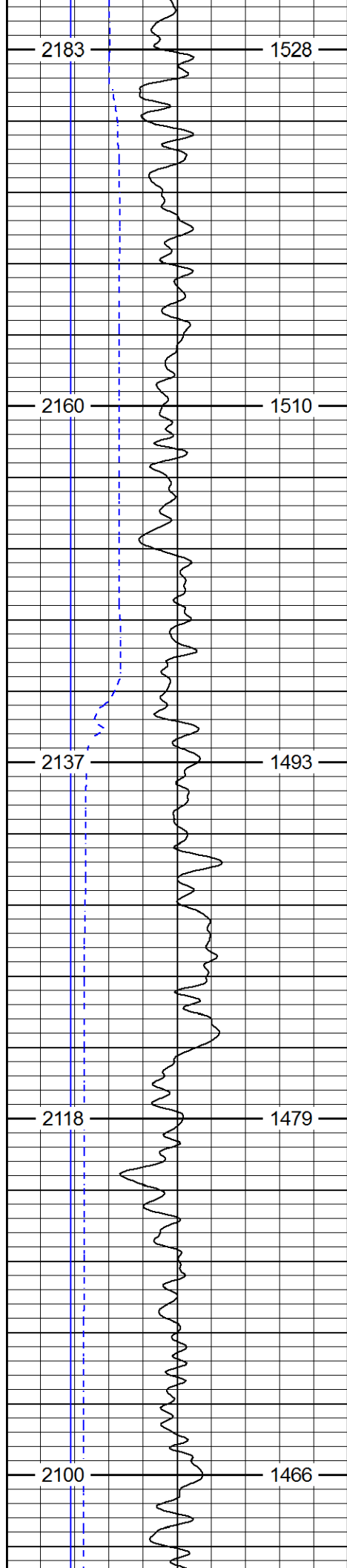
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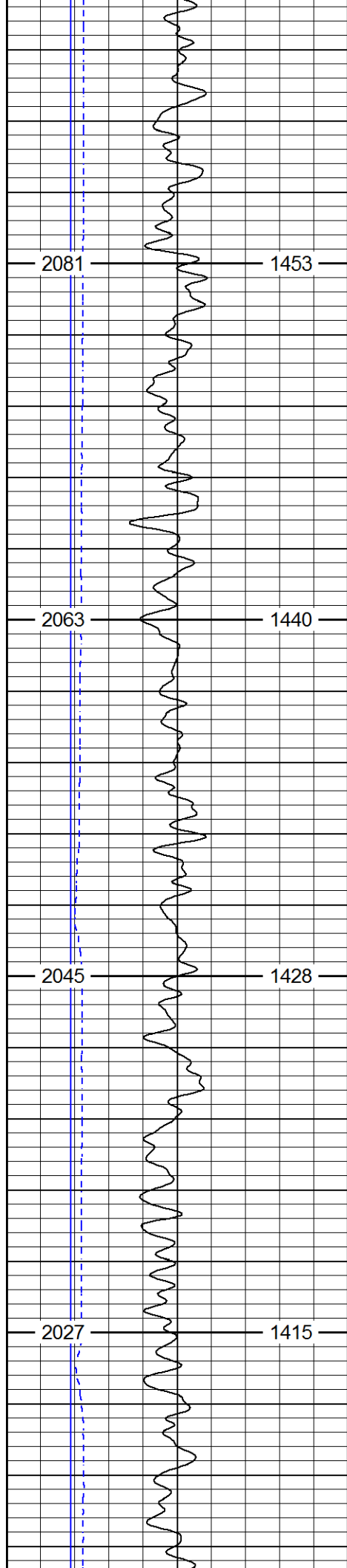
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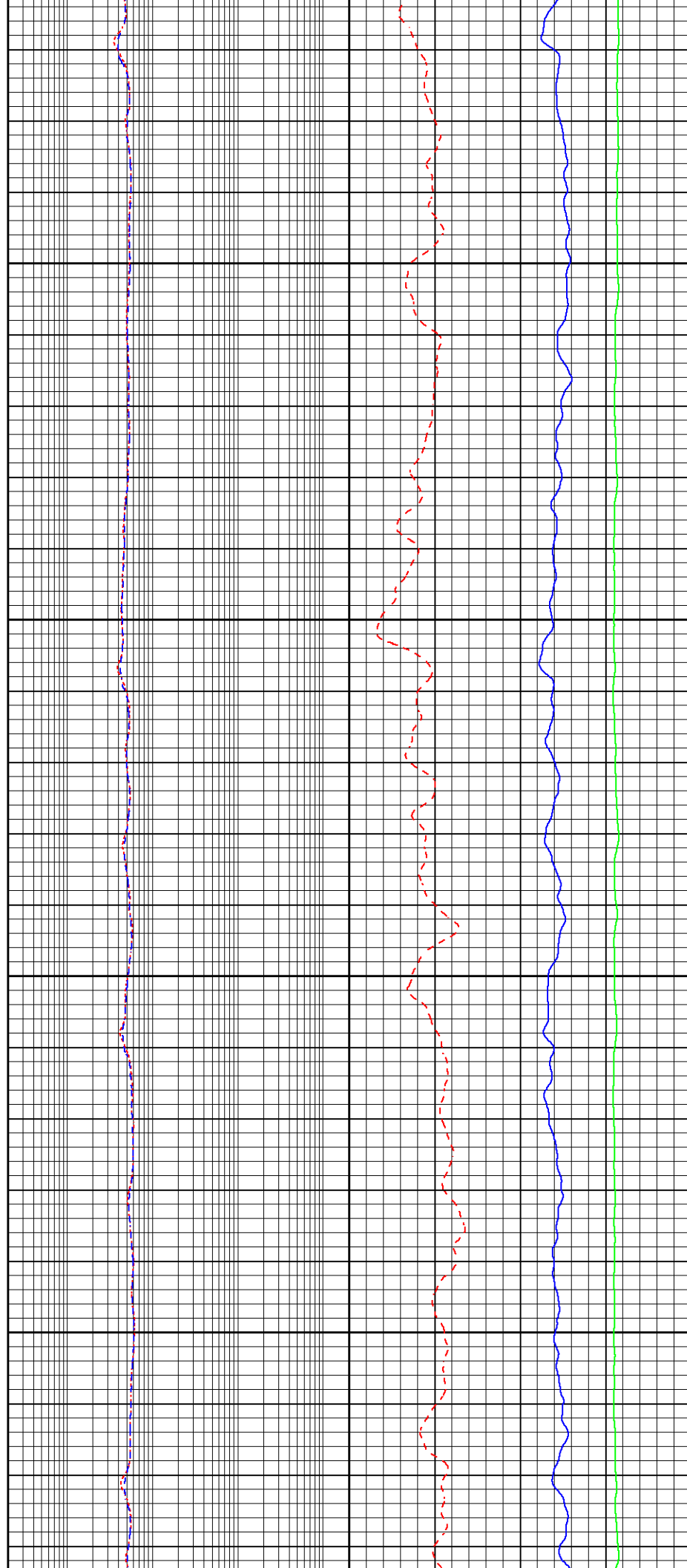


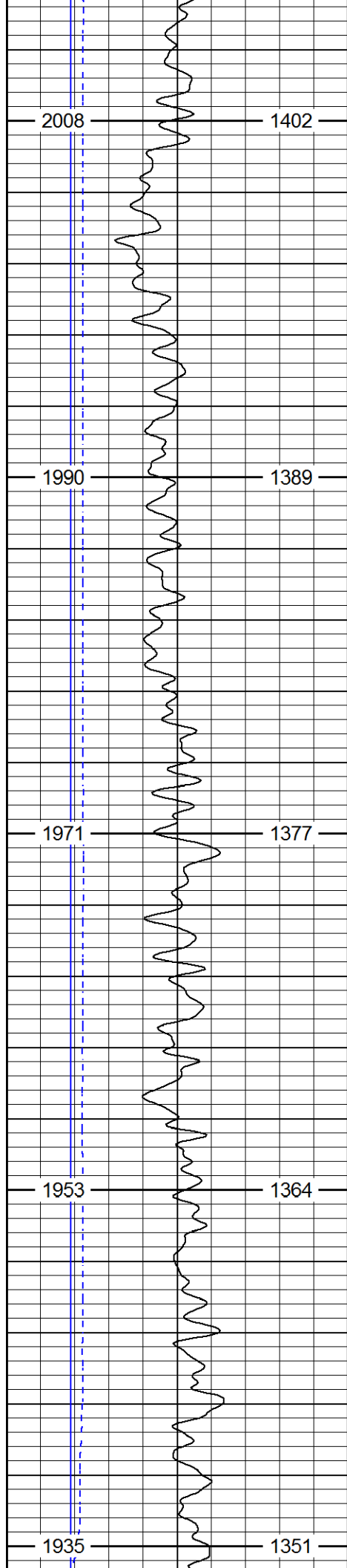
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2750





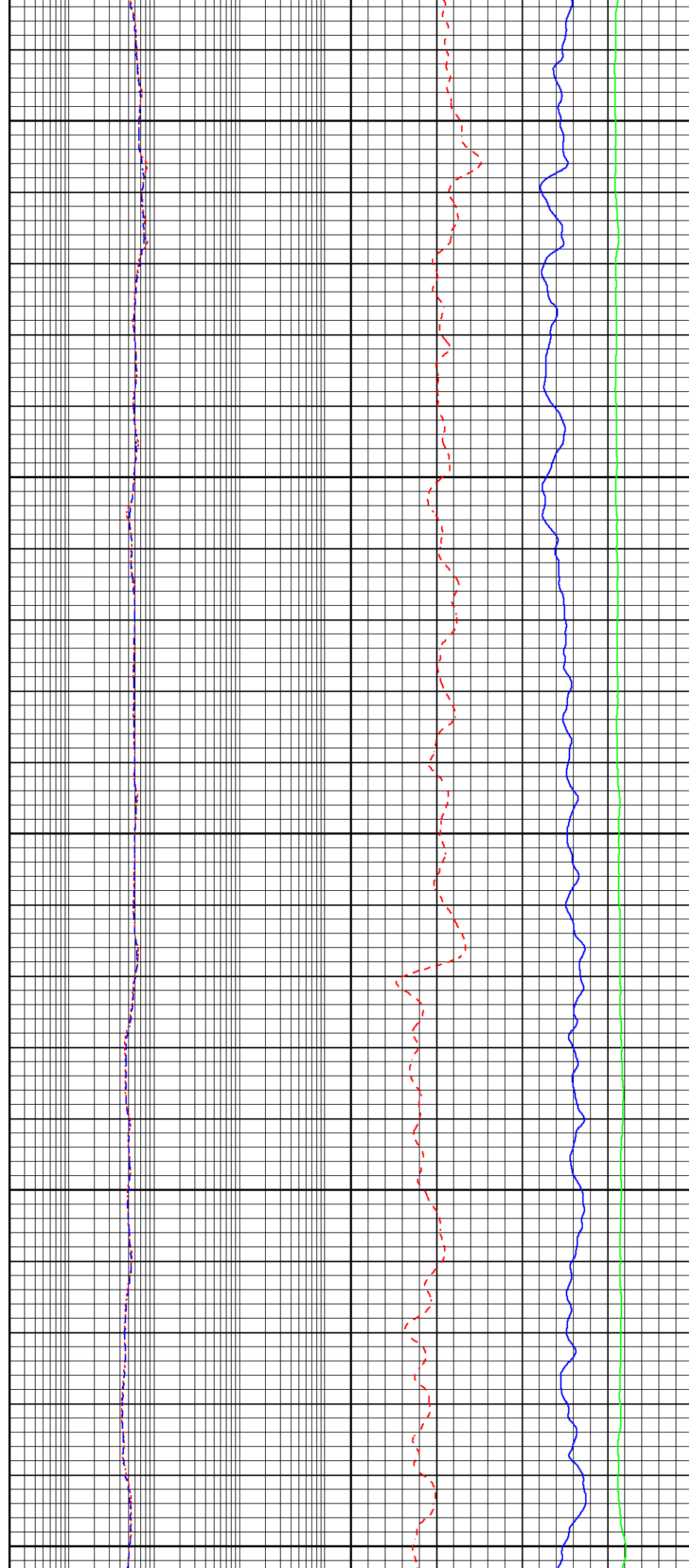
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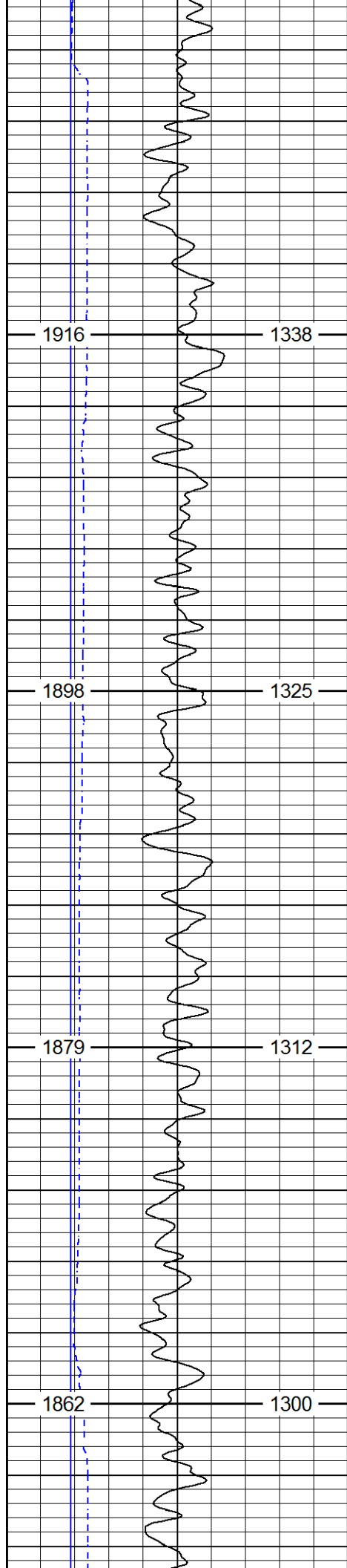
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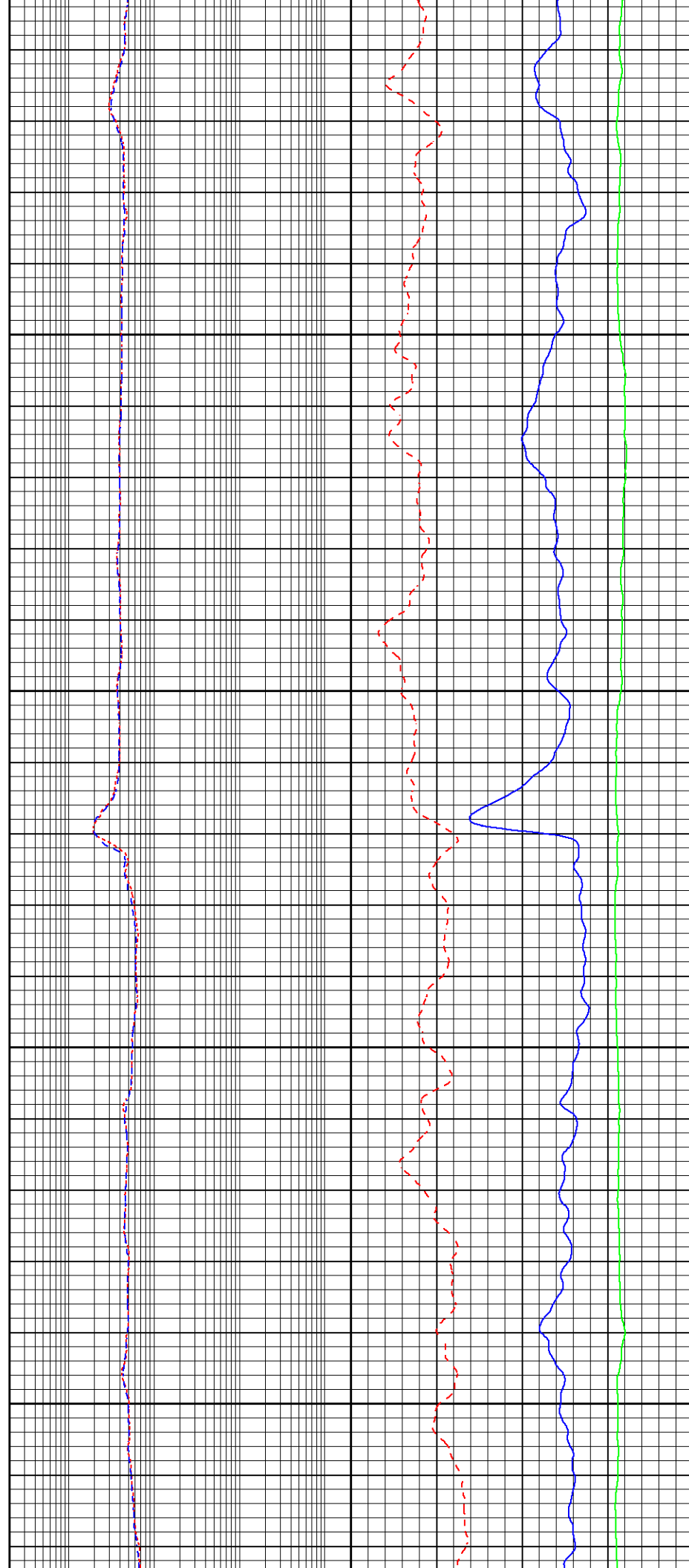


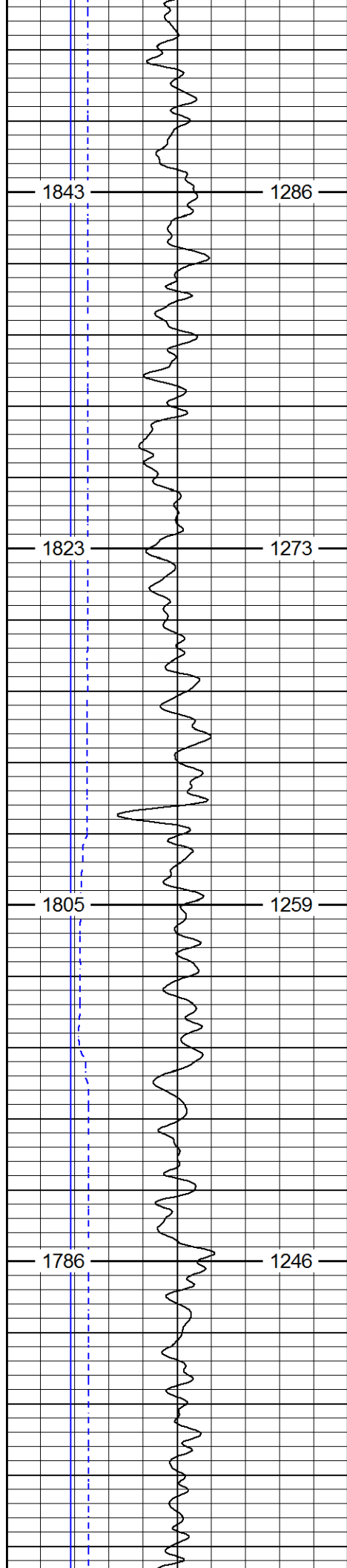
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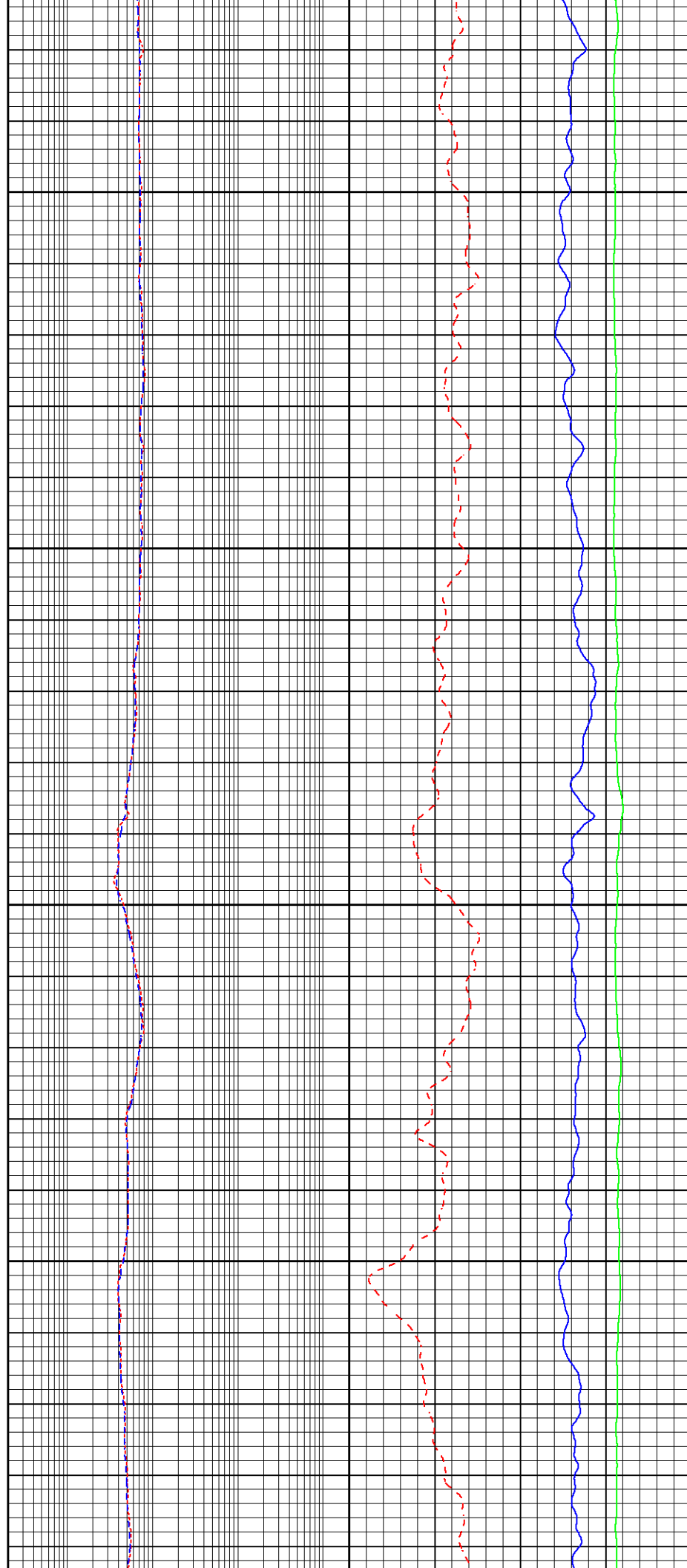


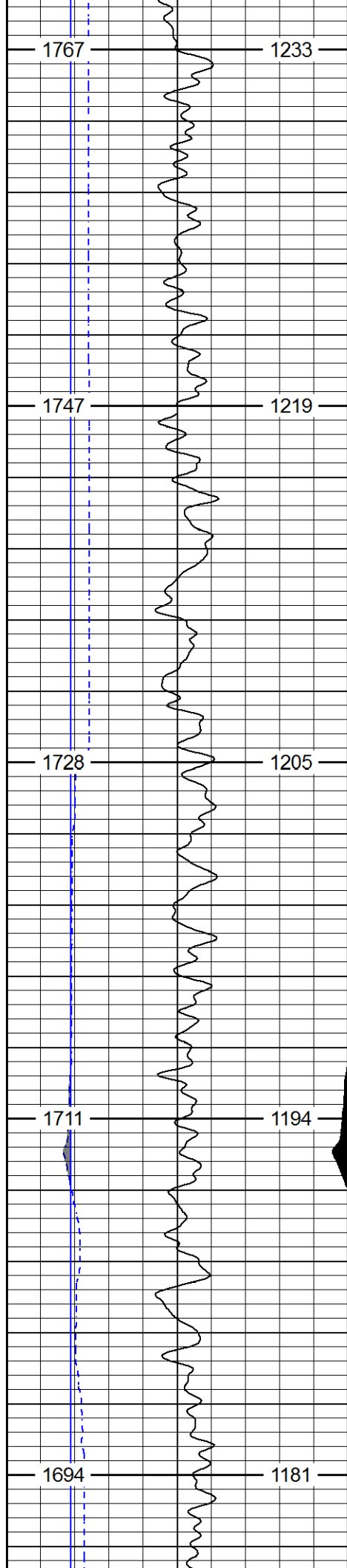
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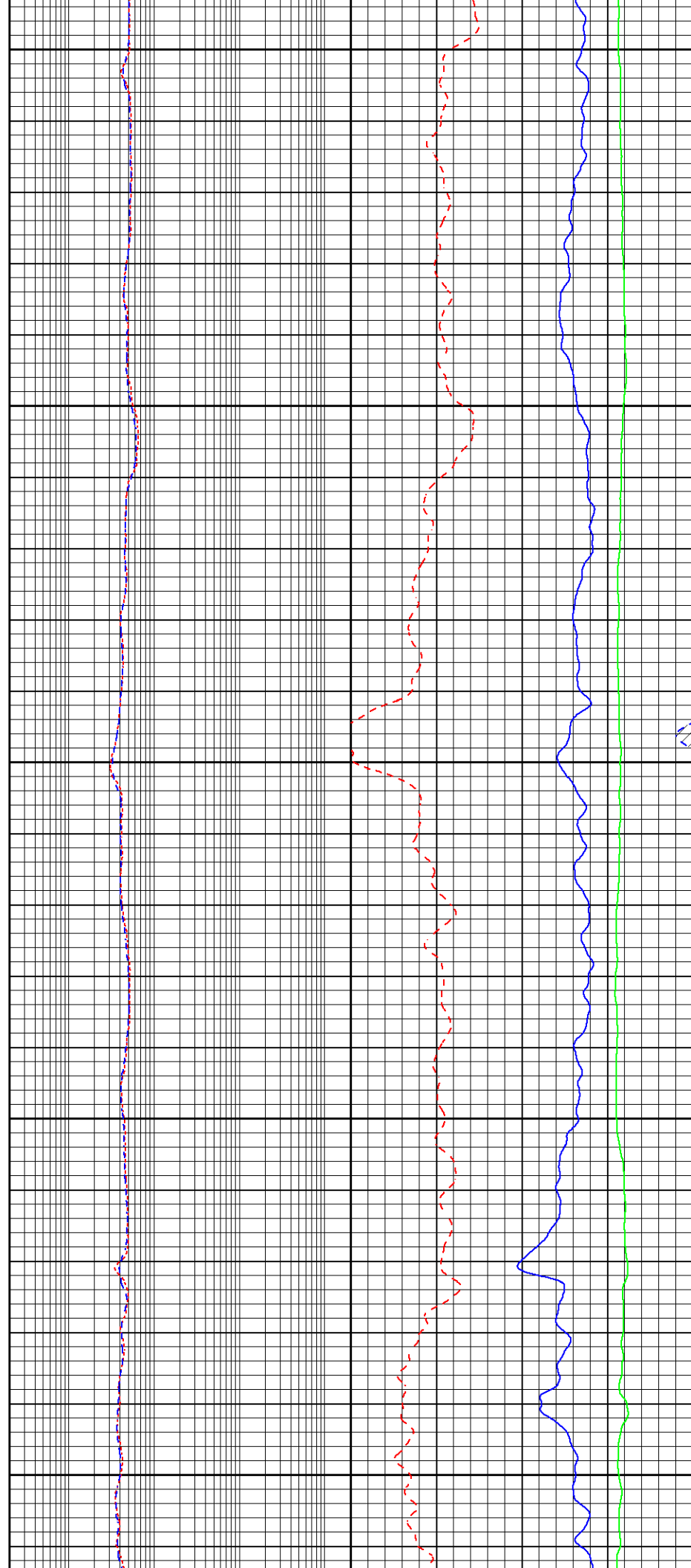
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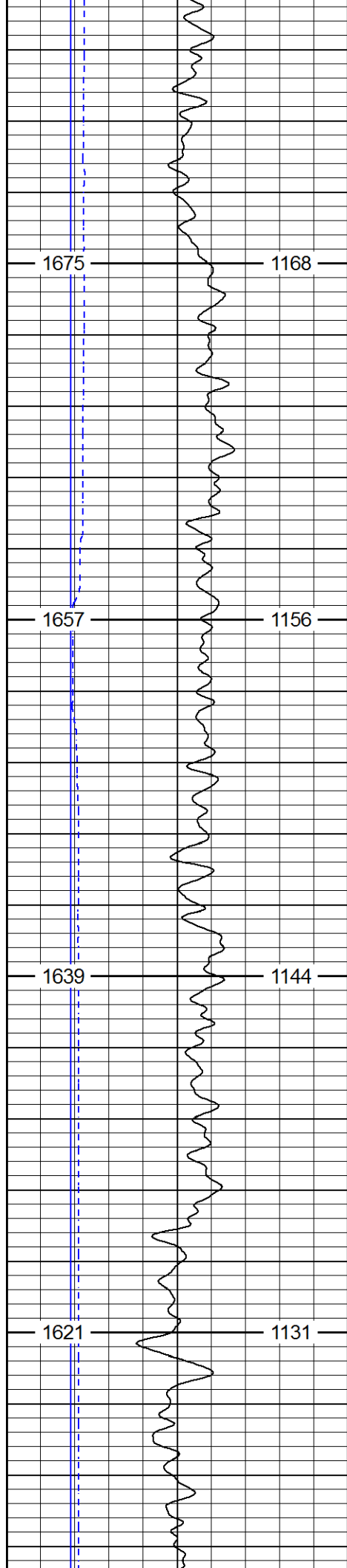
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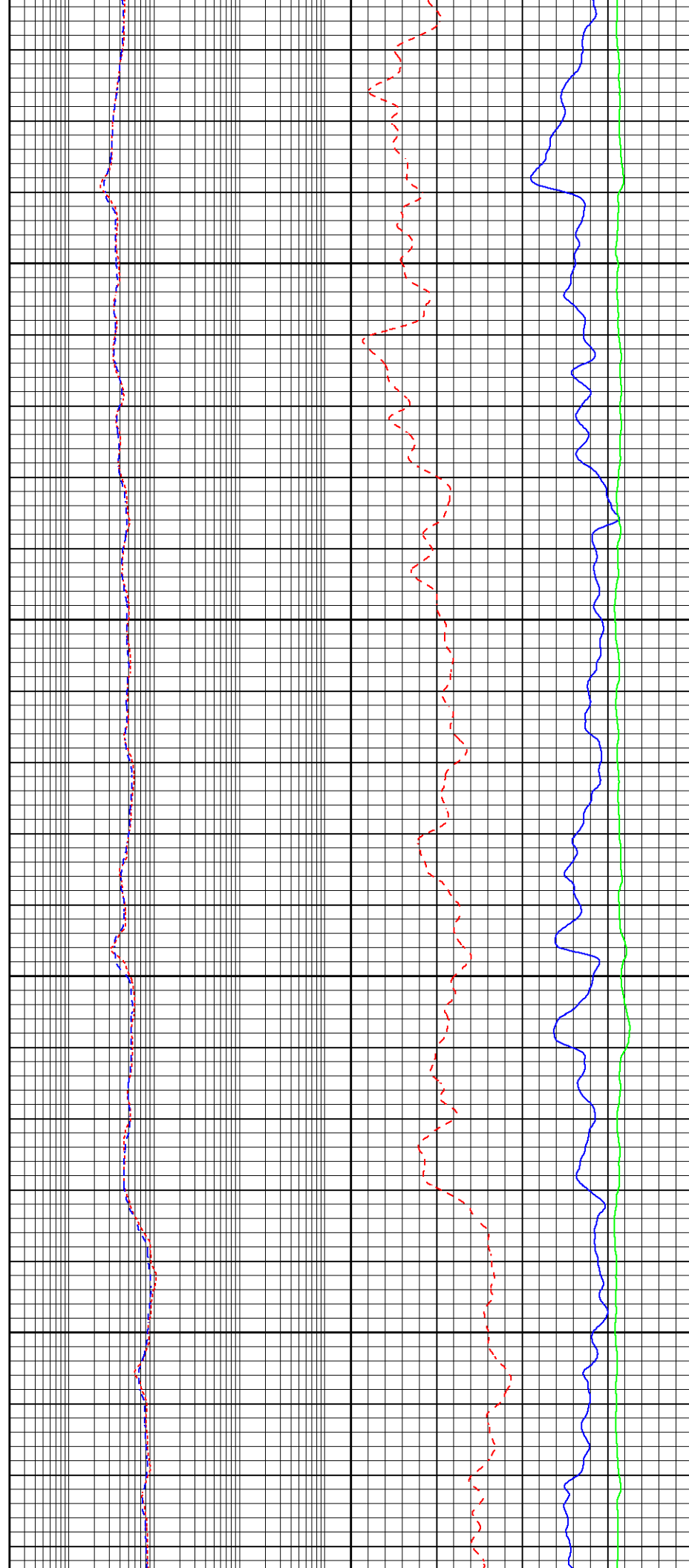


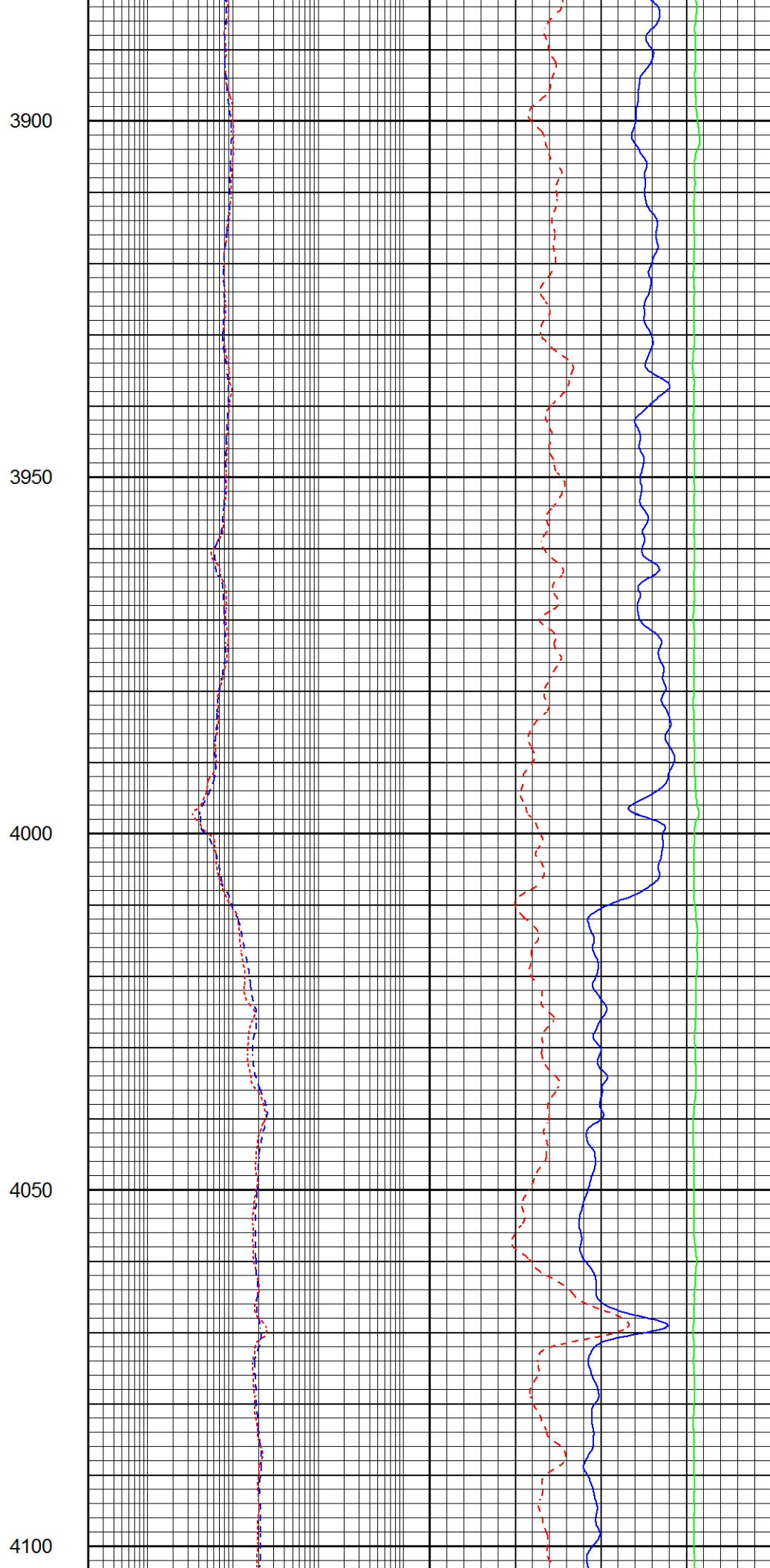
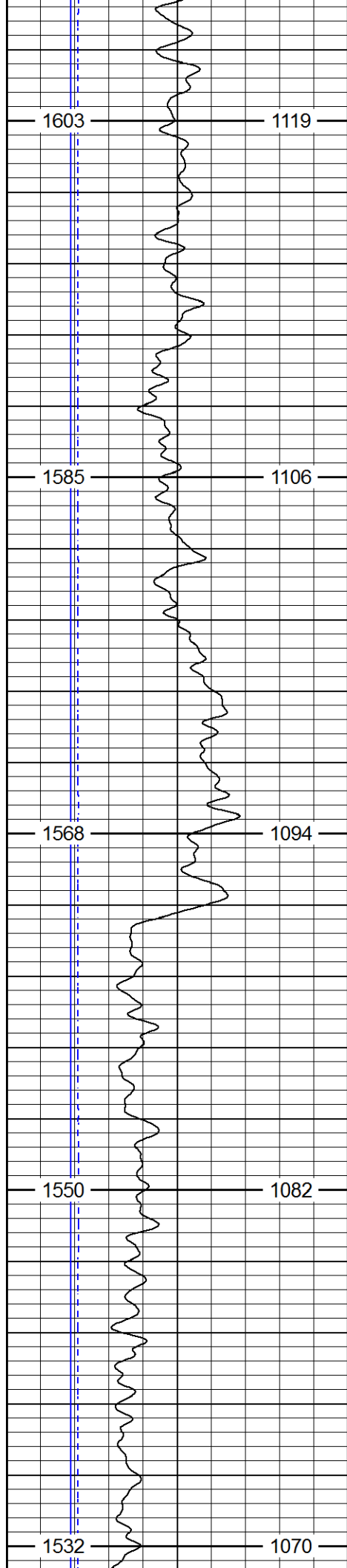
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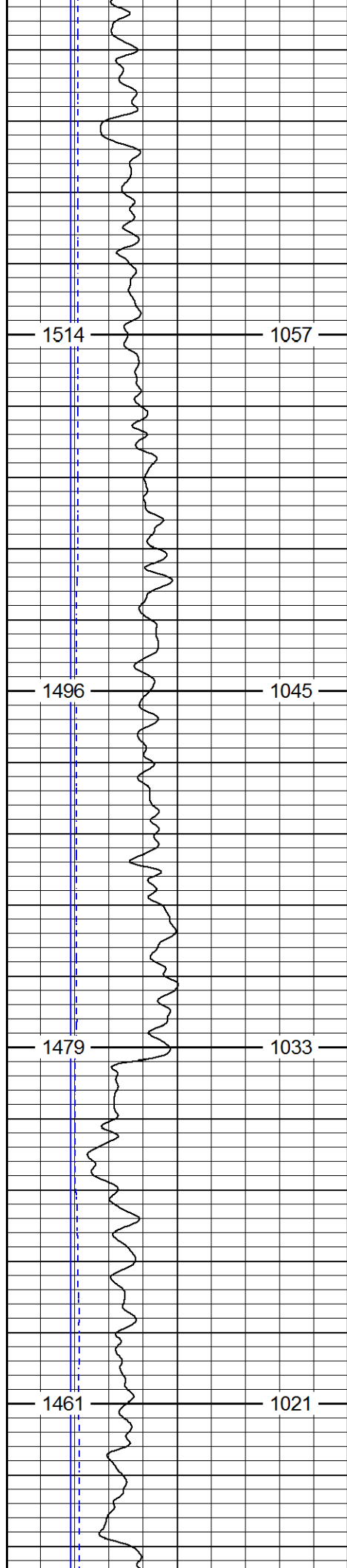
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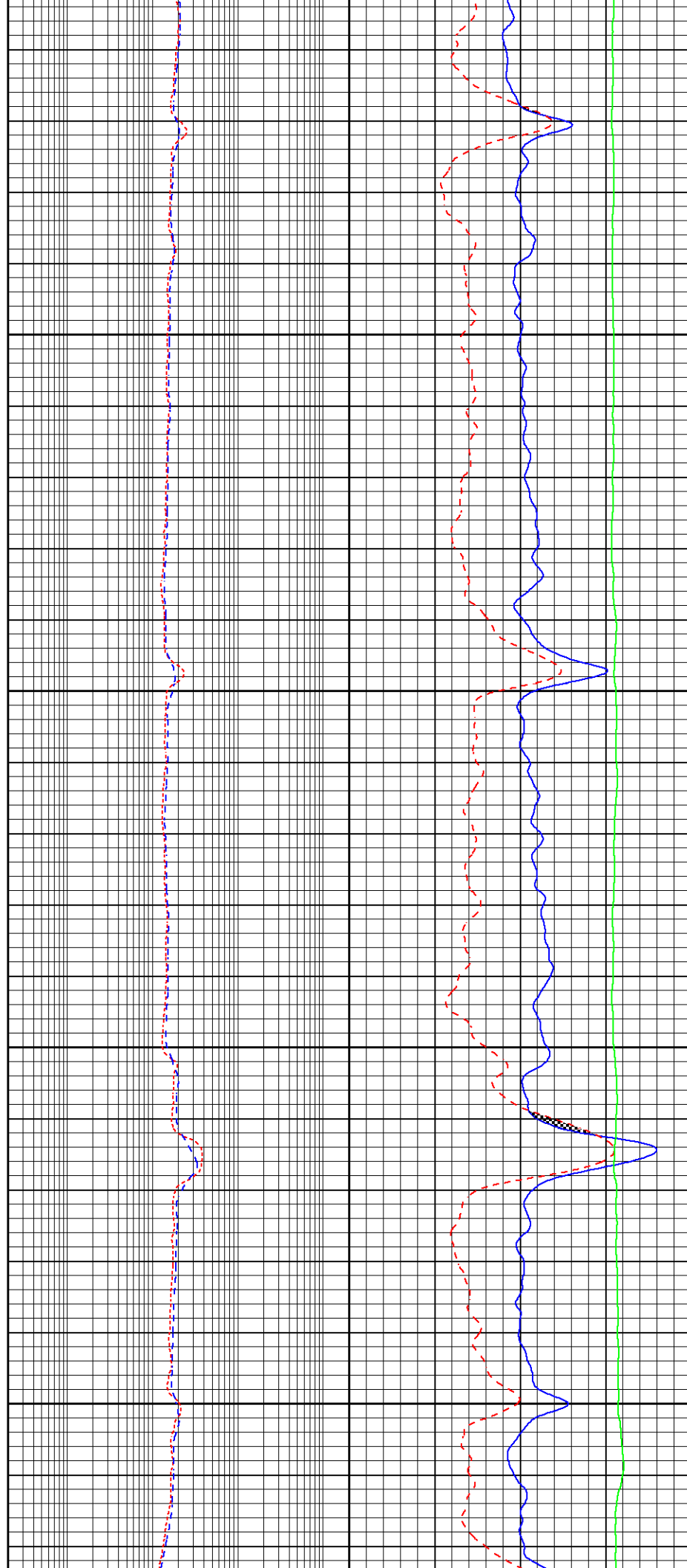


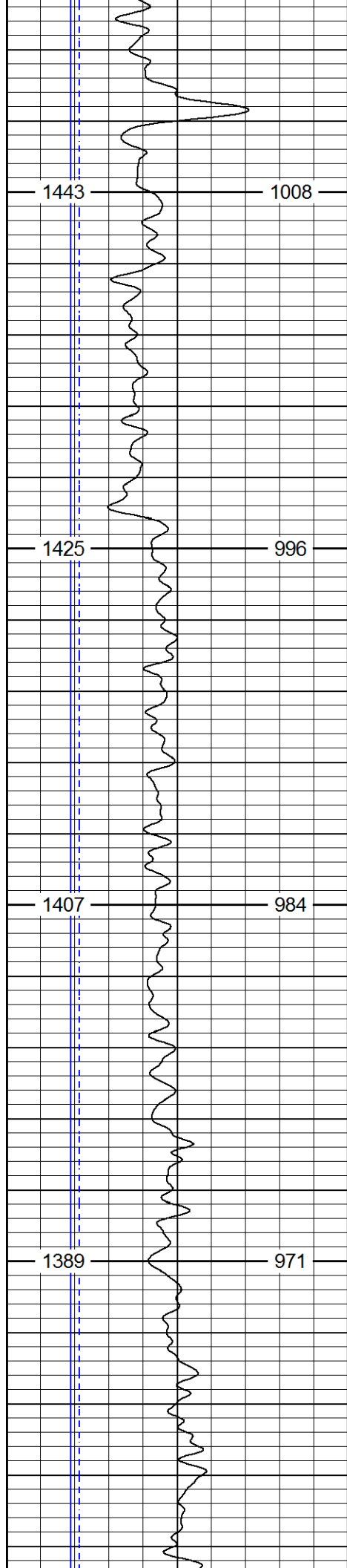
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4300



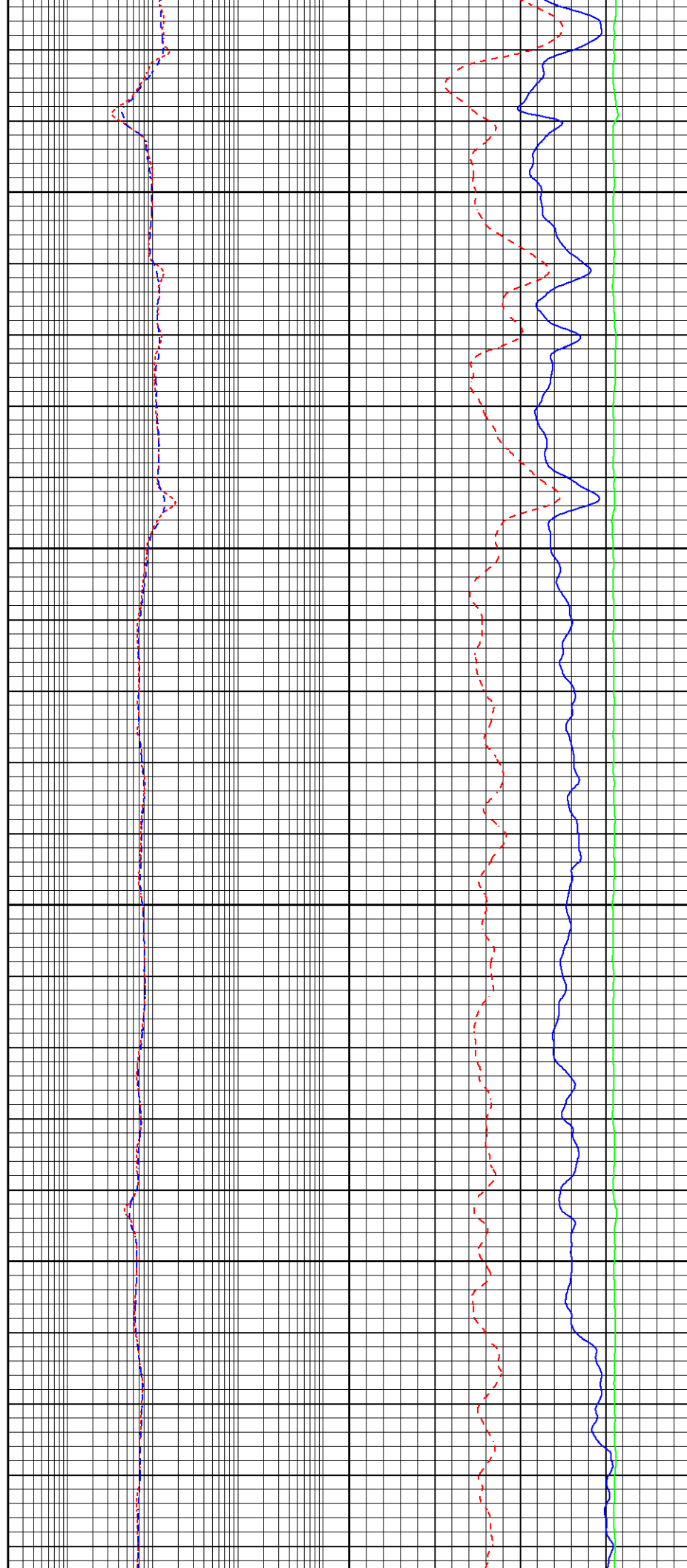


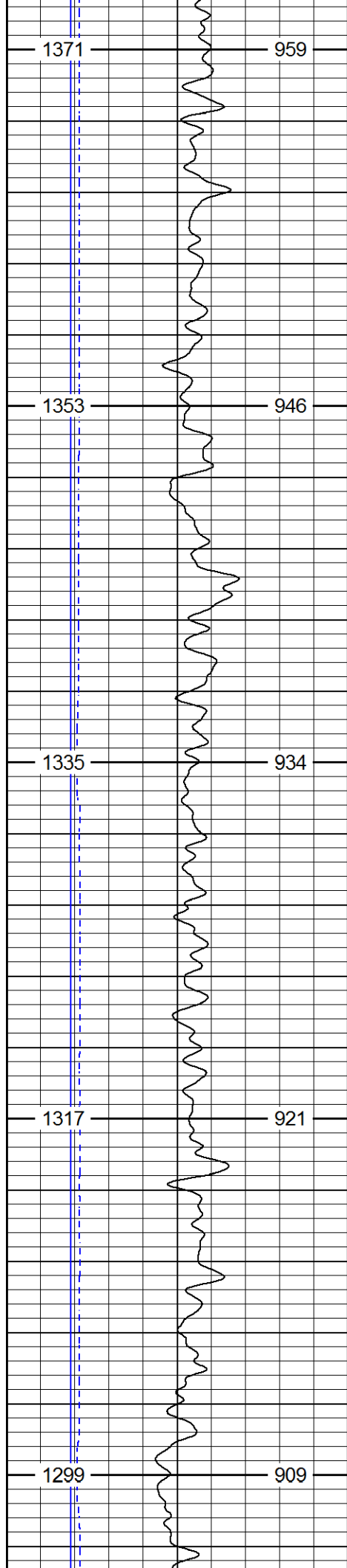
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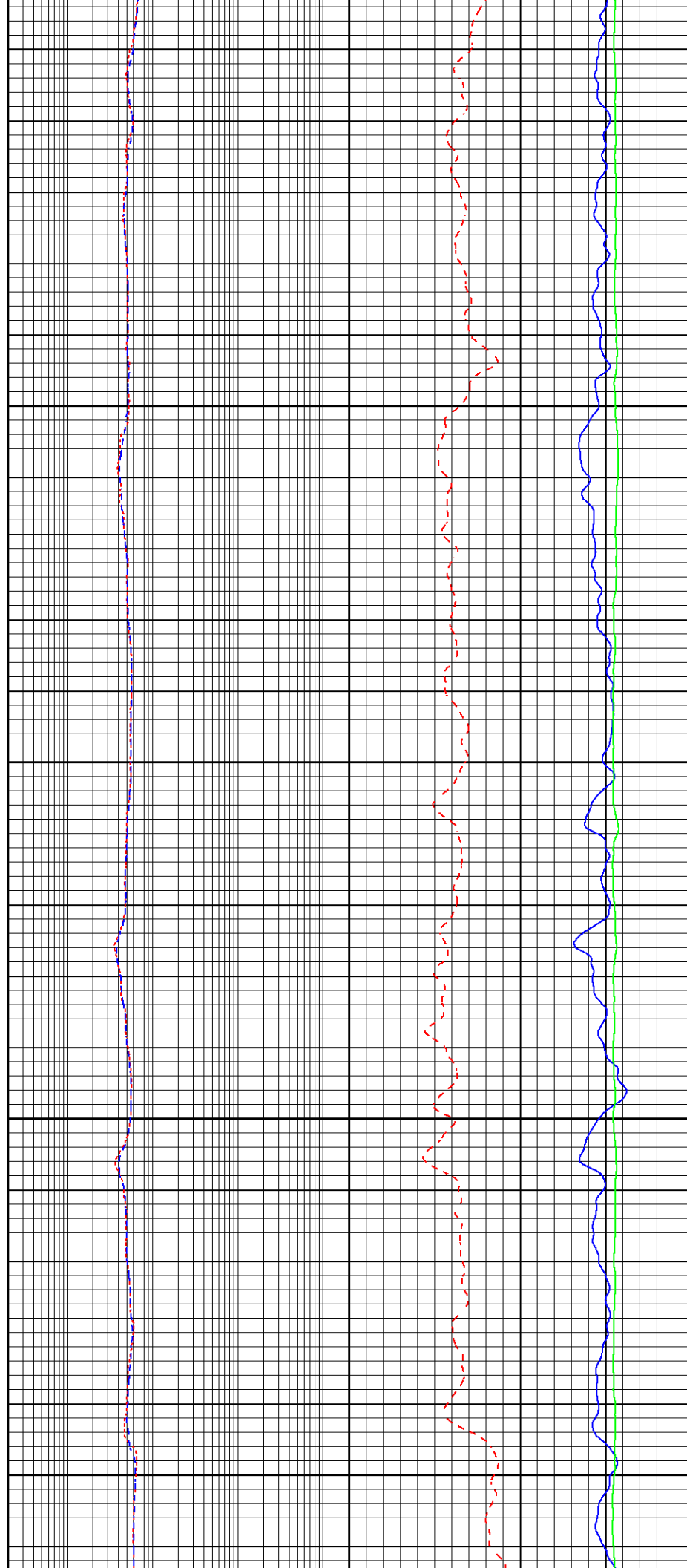
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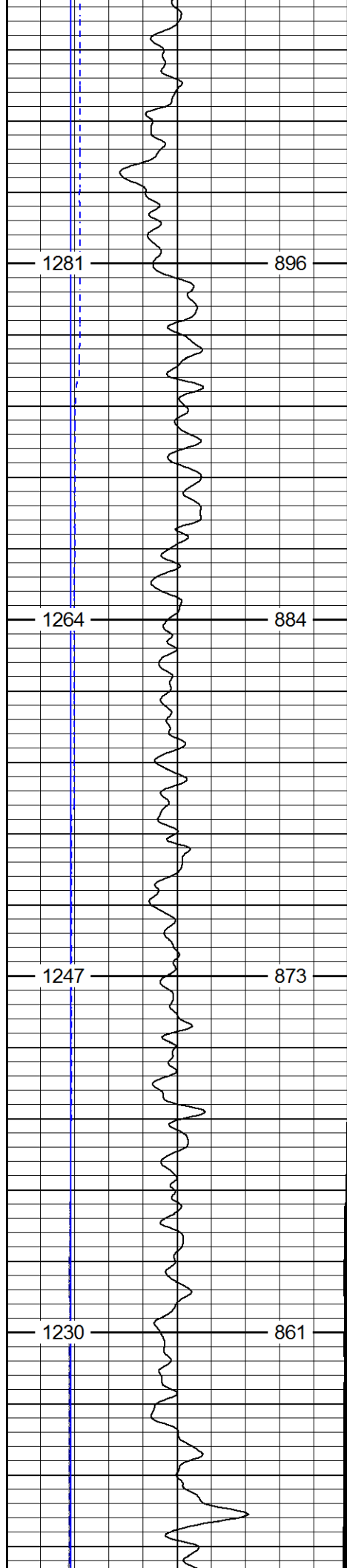
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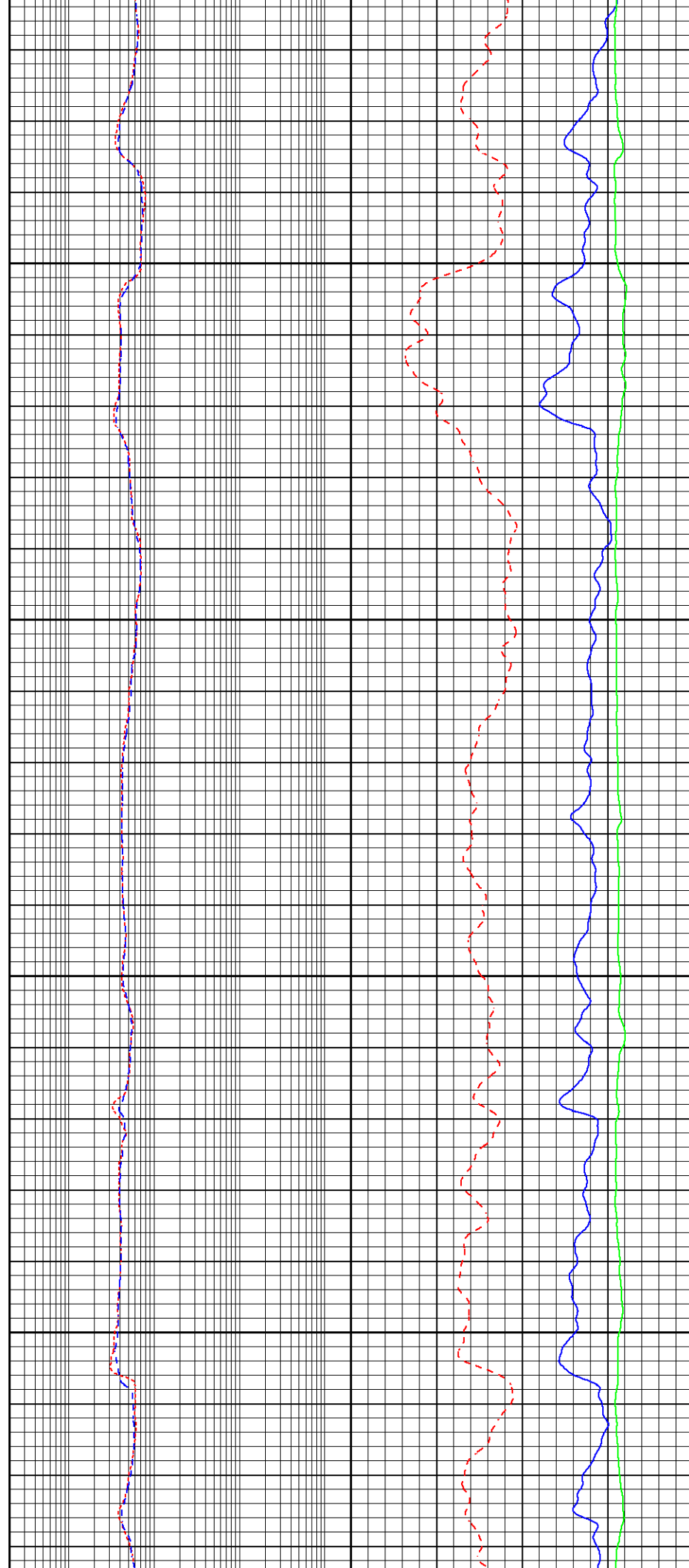


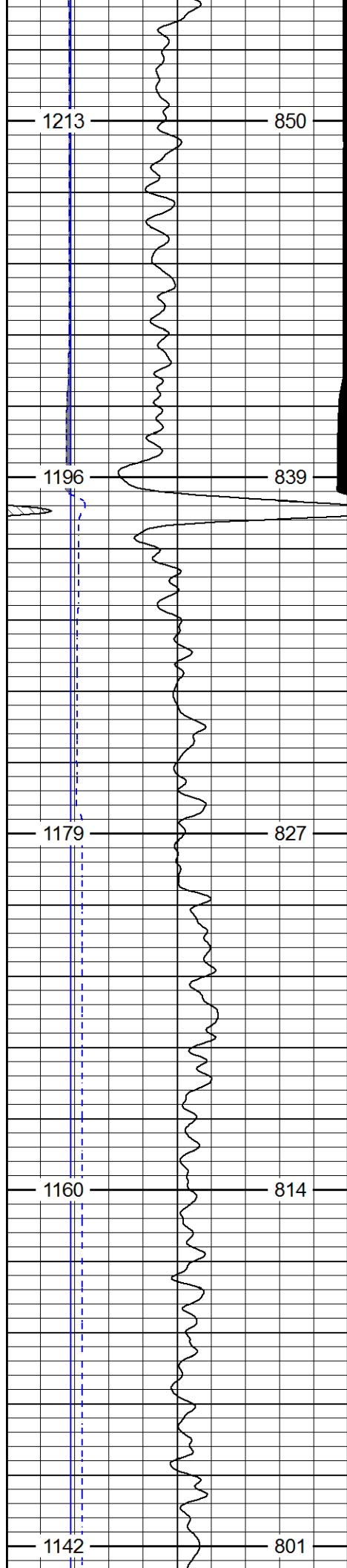
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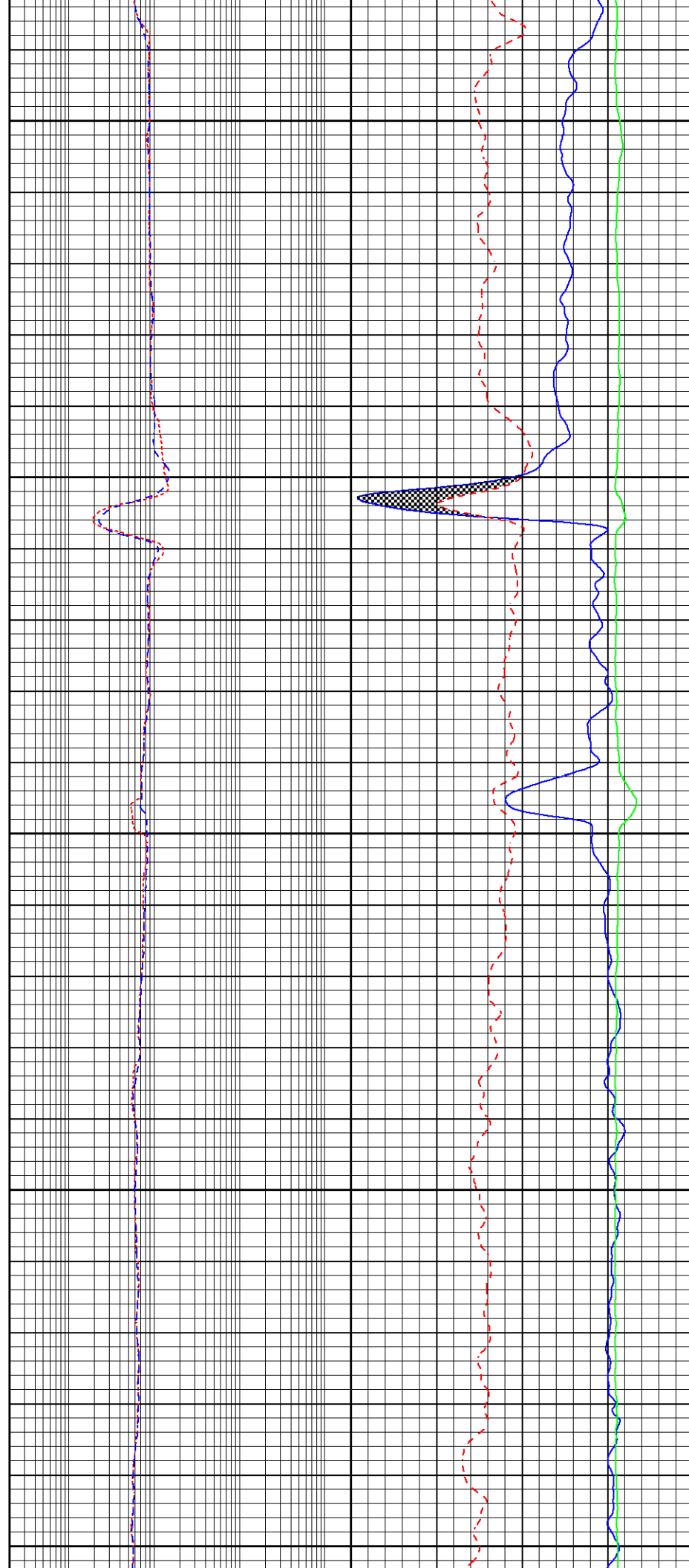
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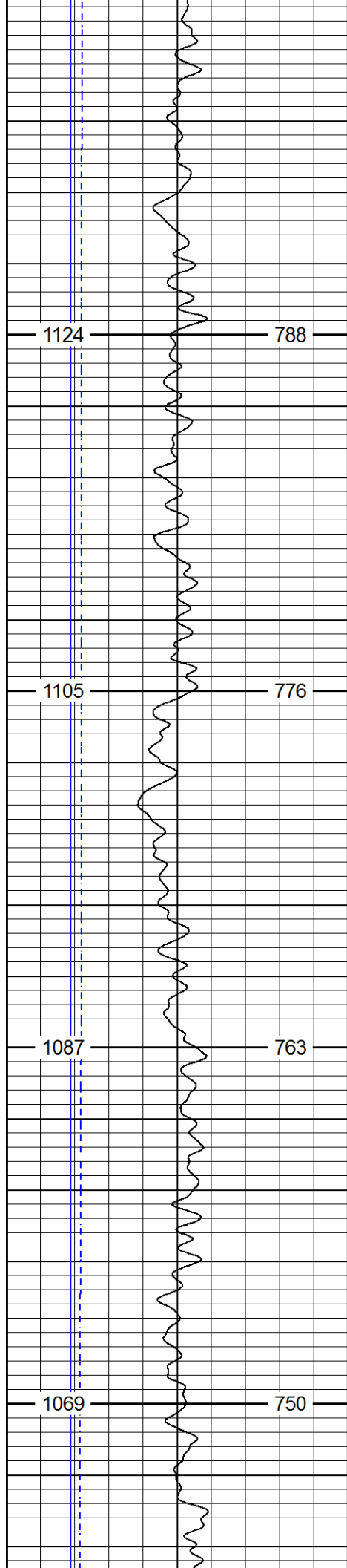
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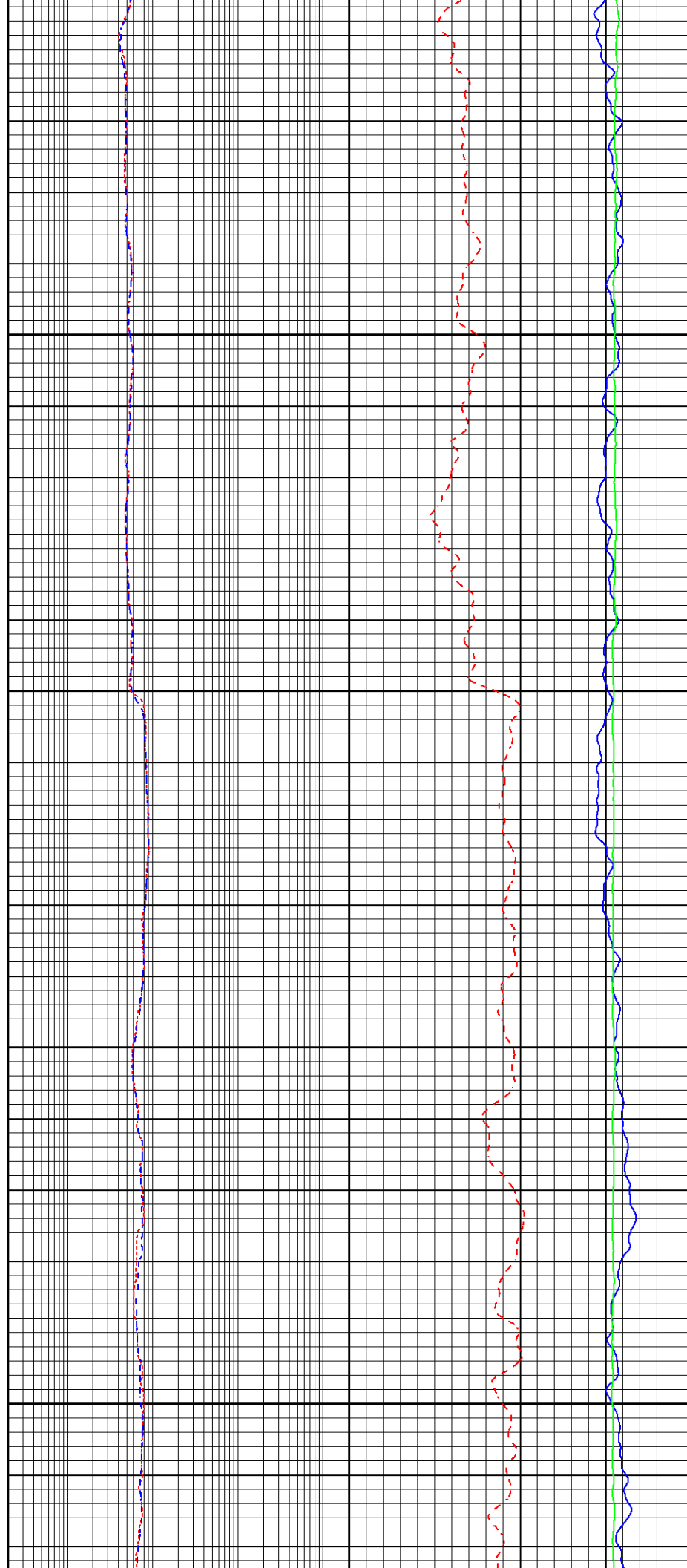


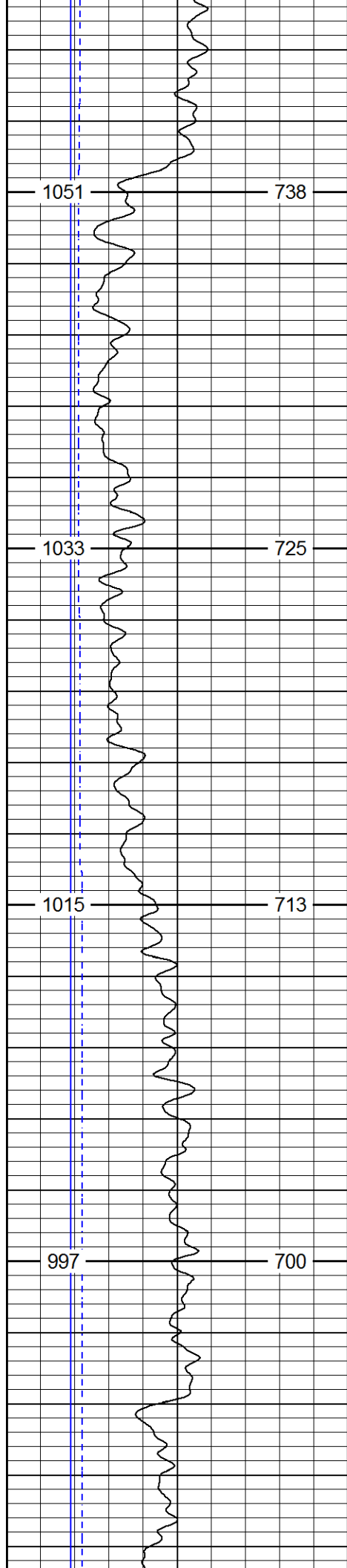
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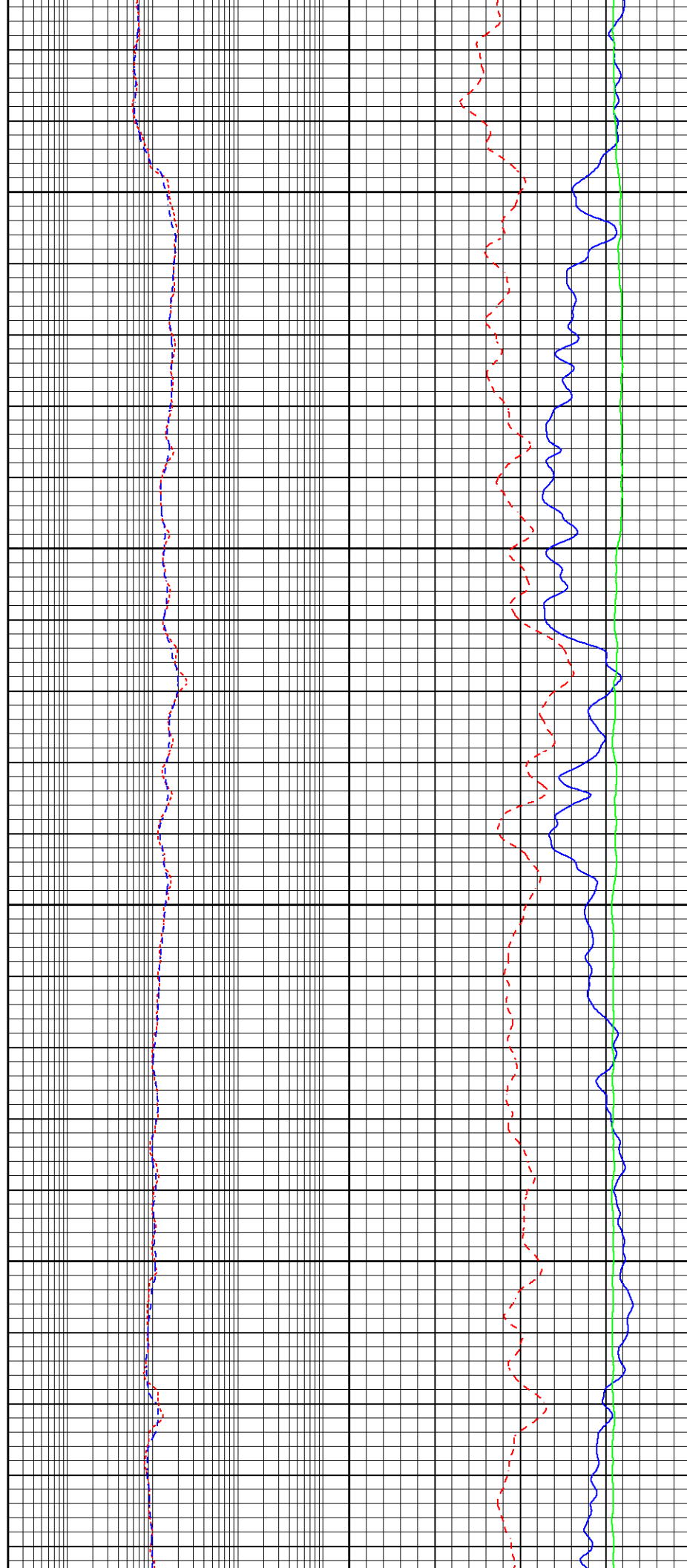


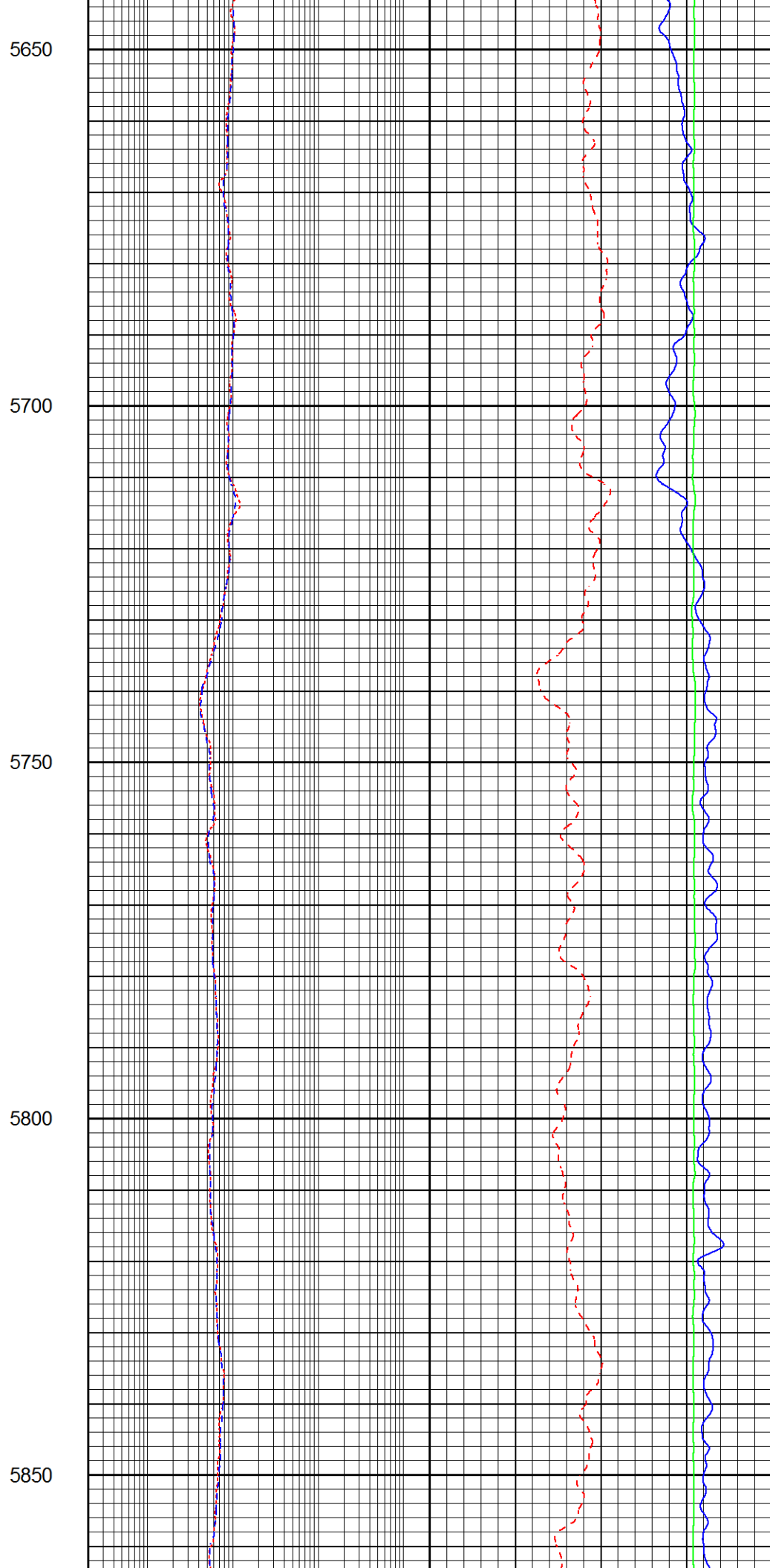
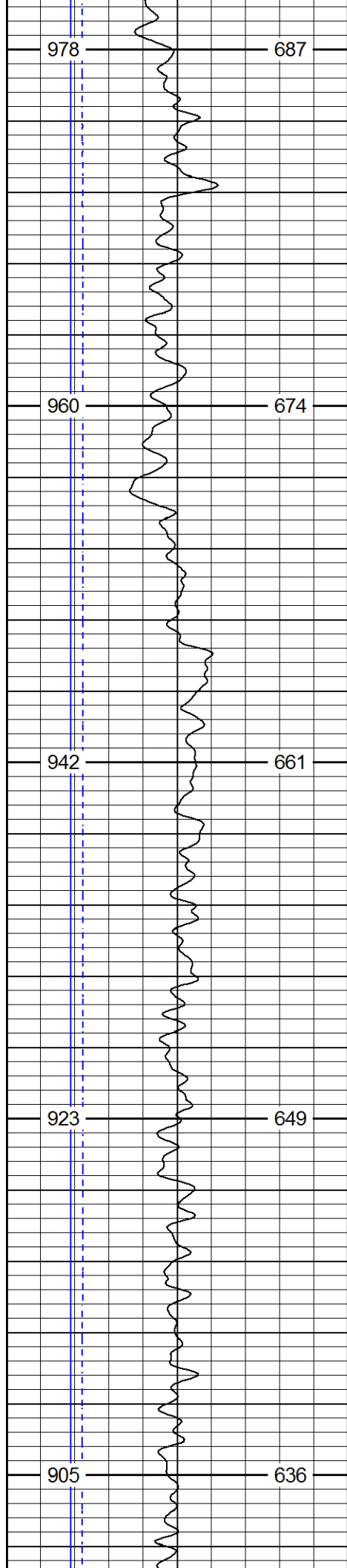
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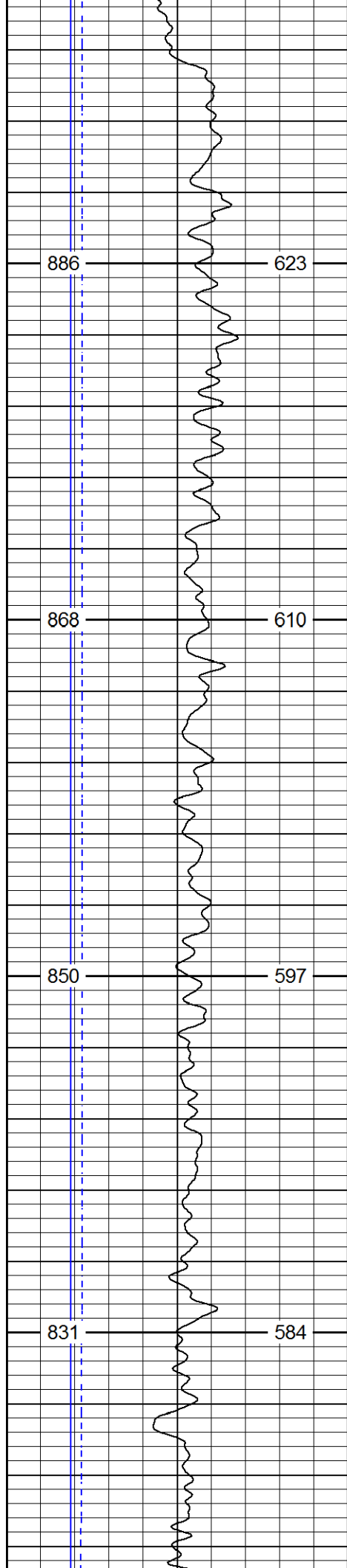
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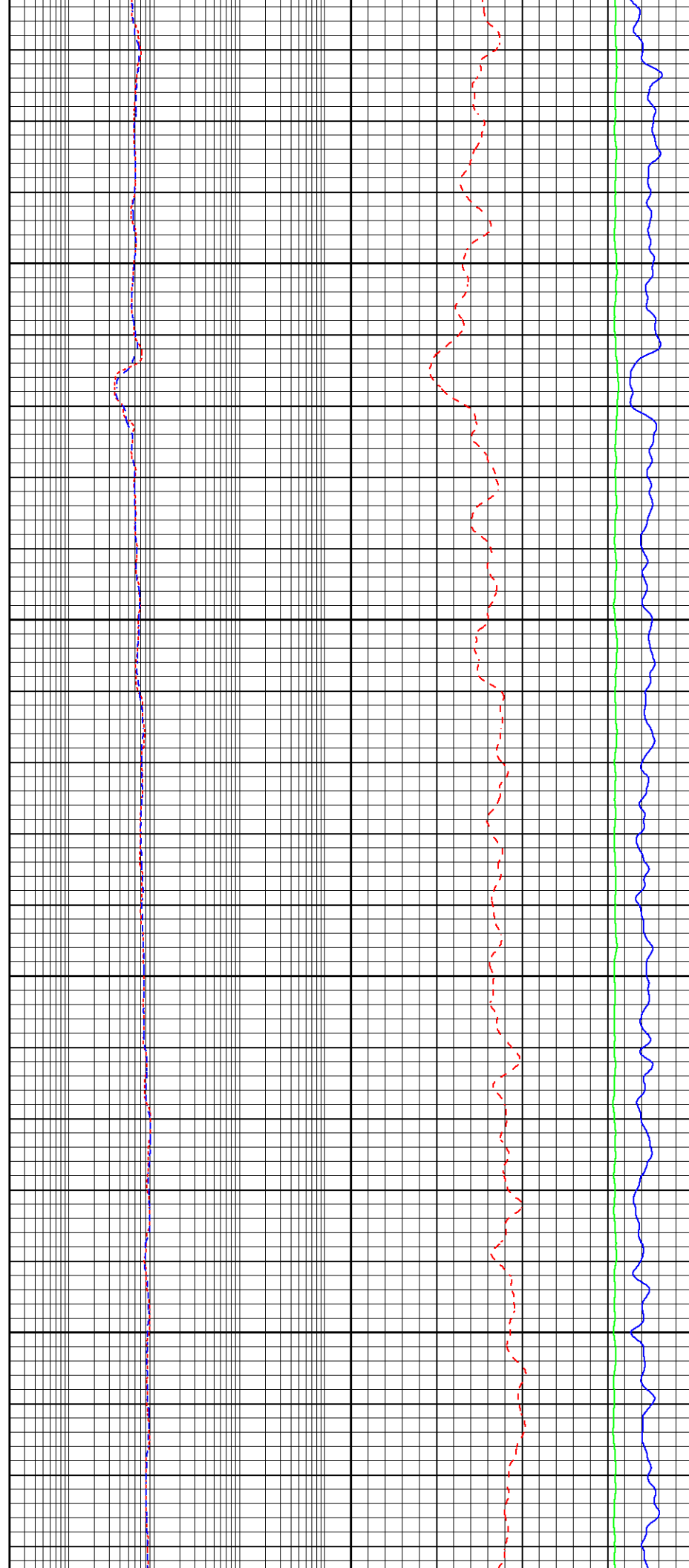


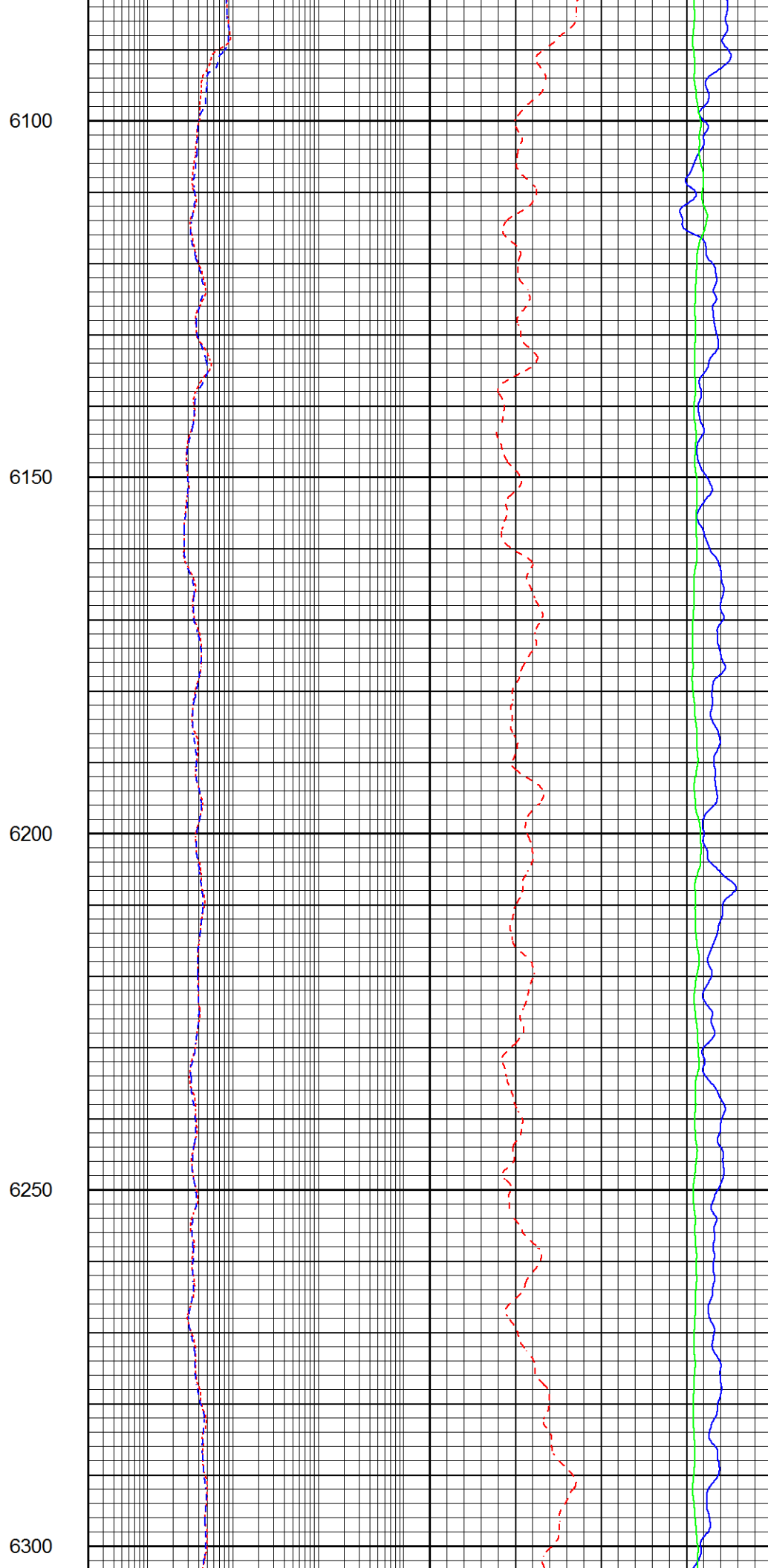
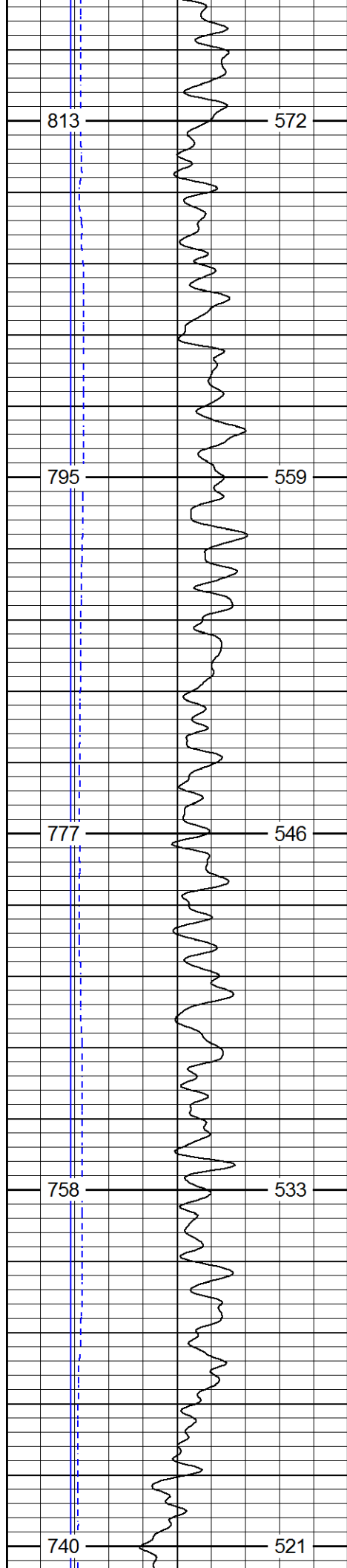
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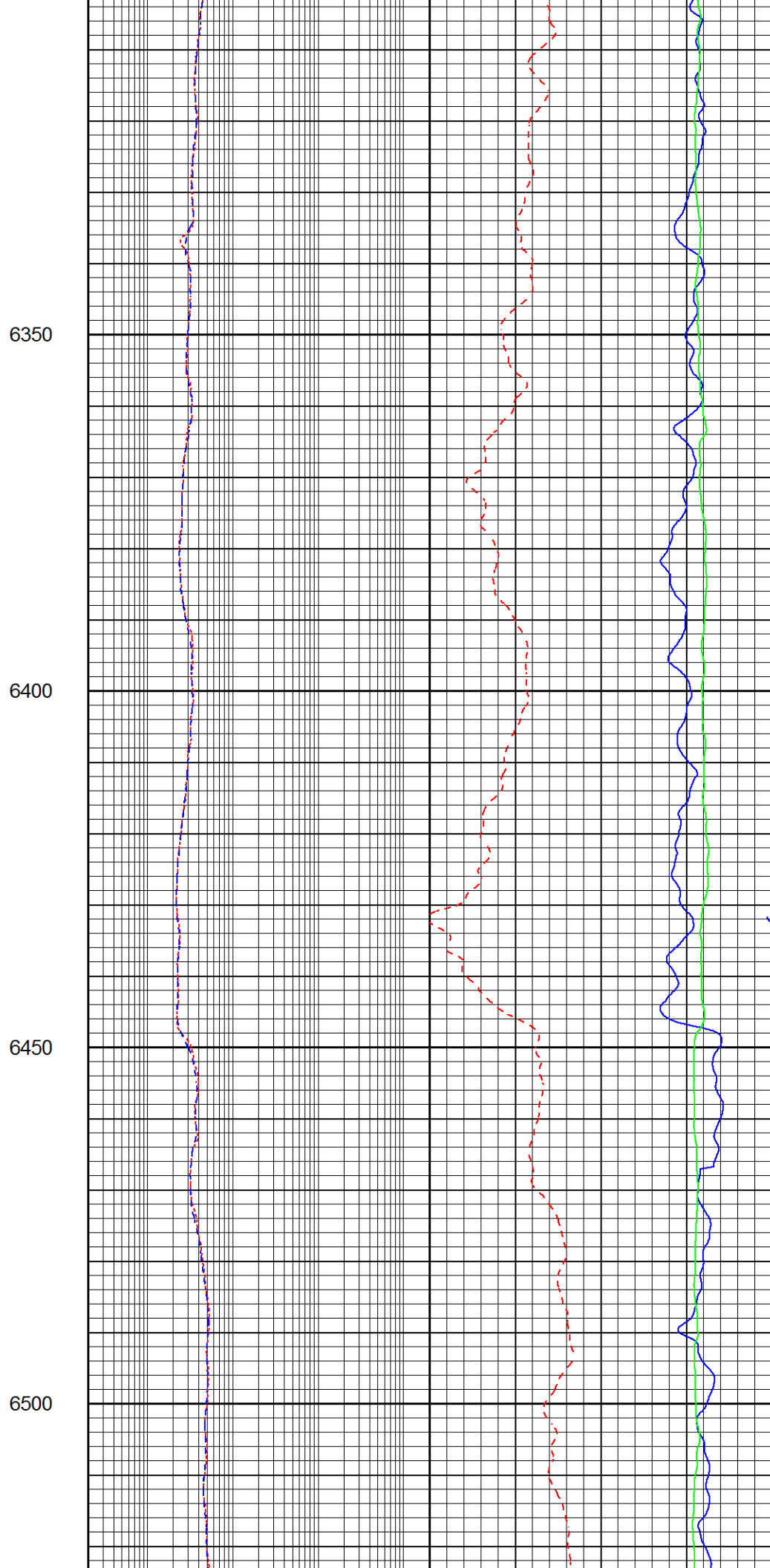
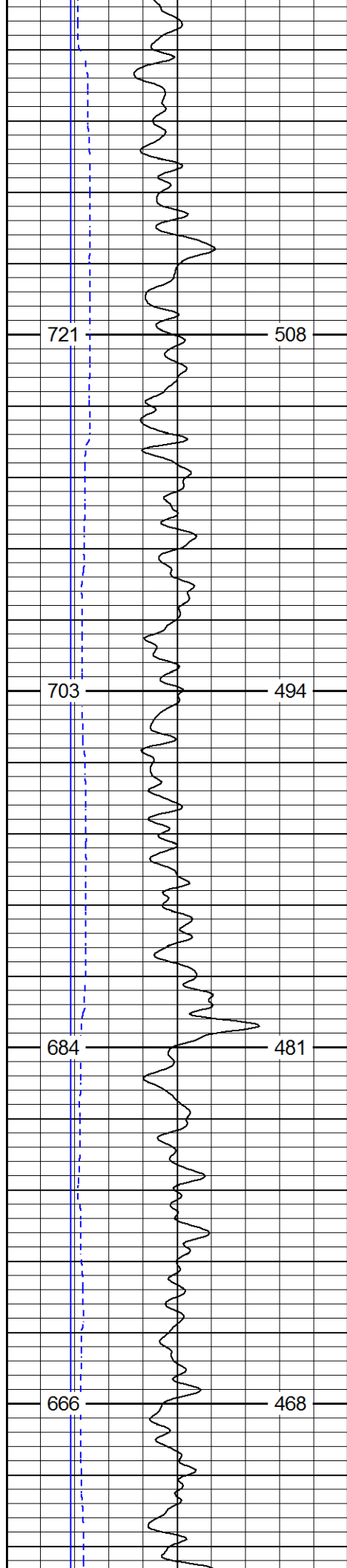
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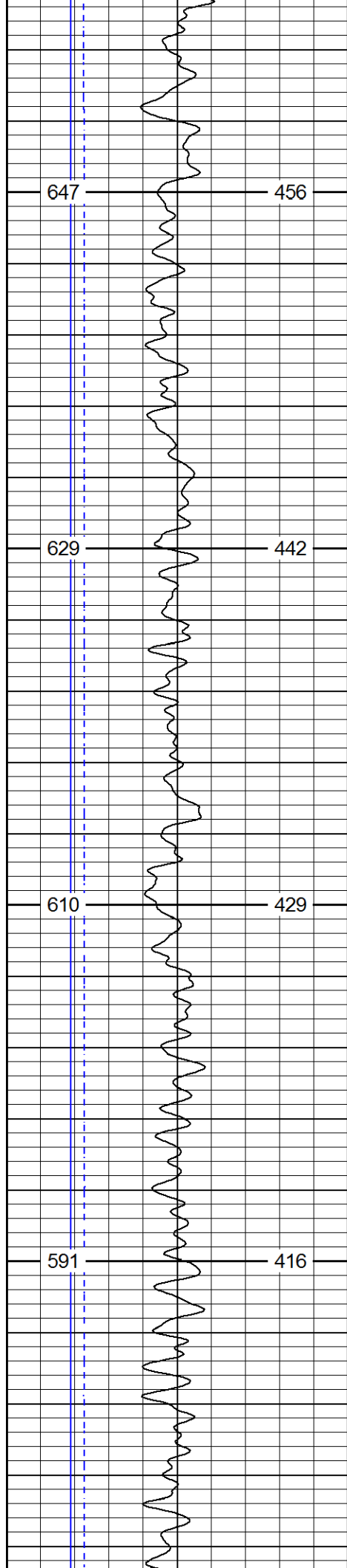
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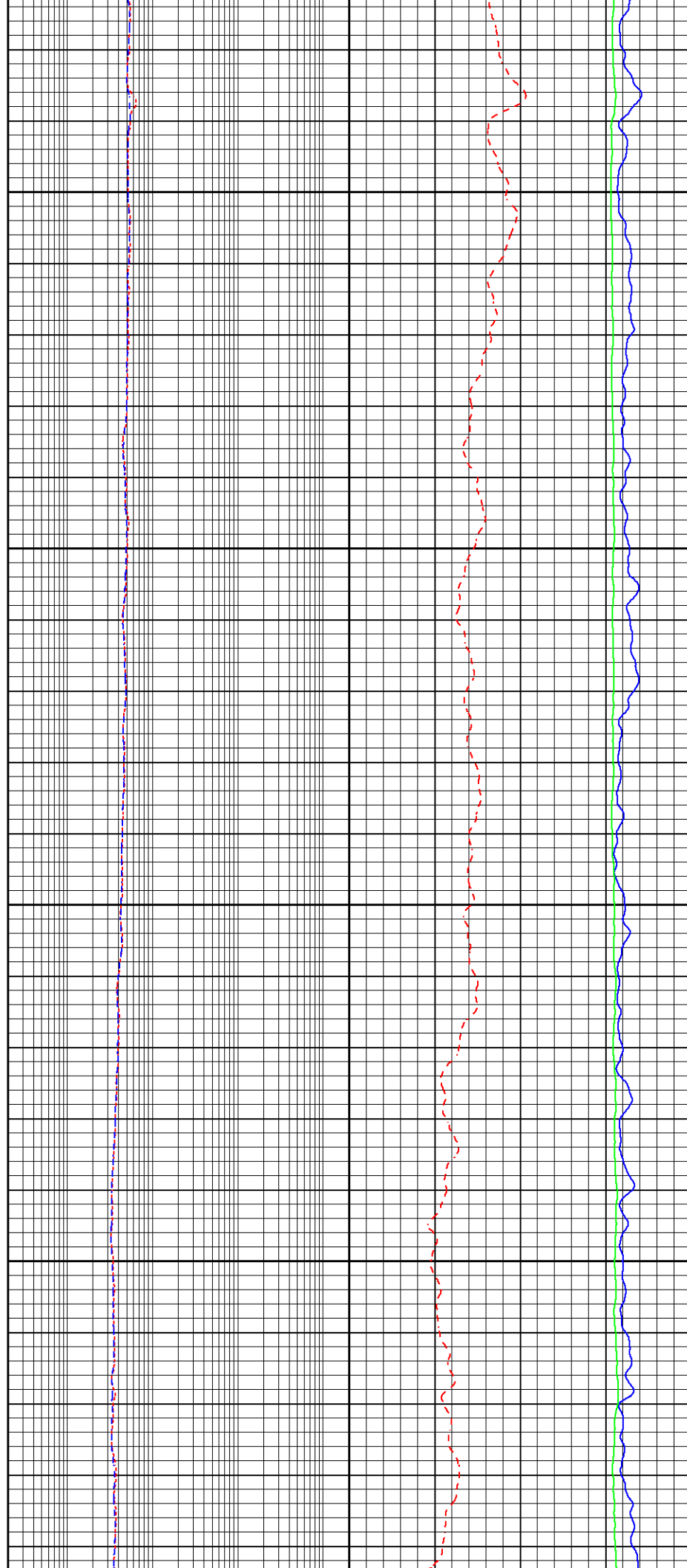


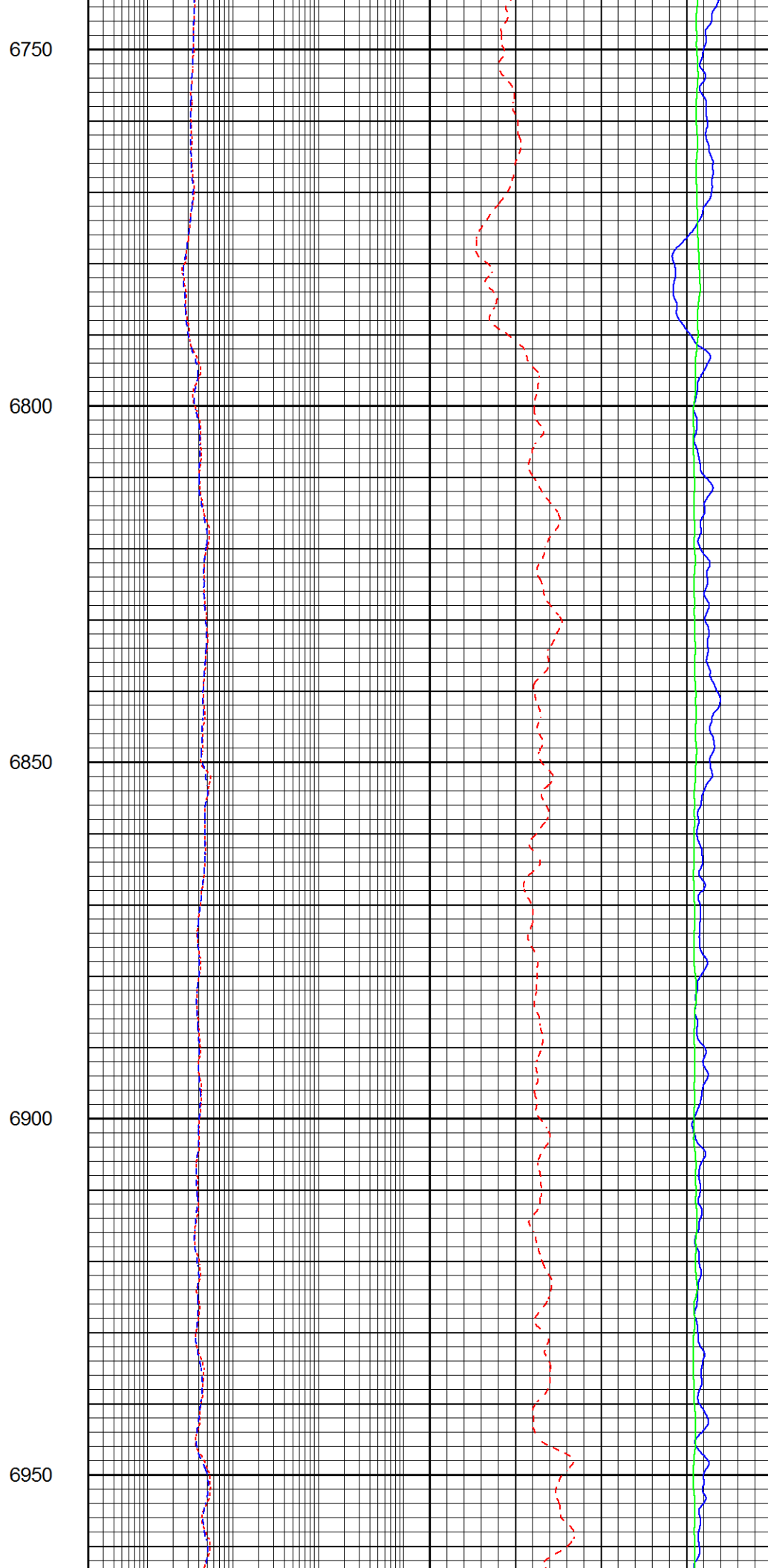
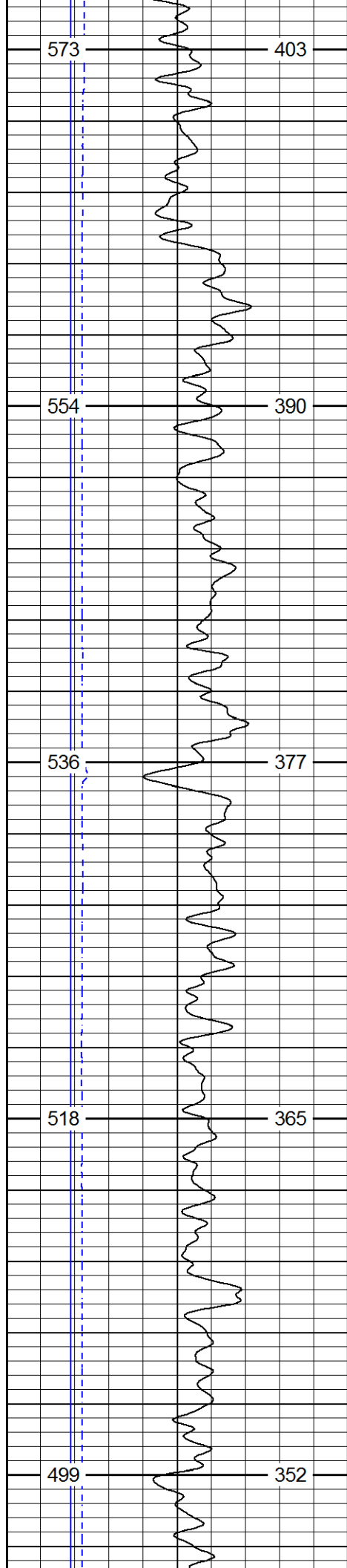
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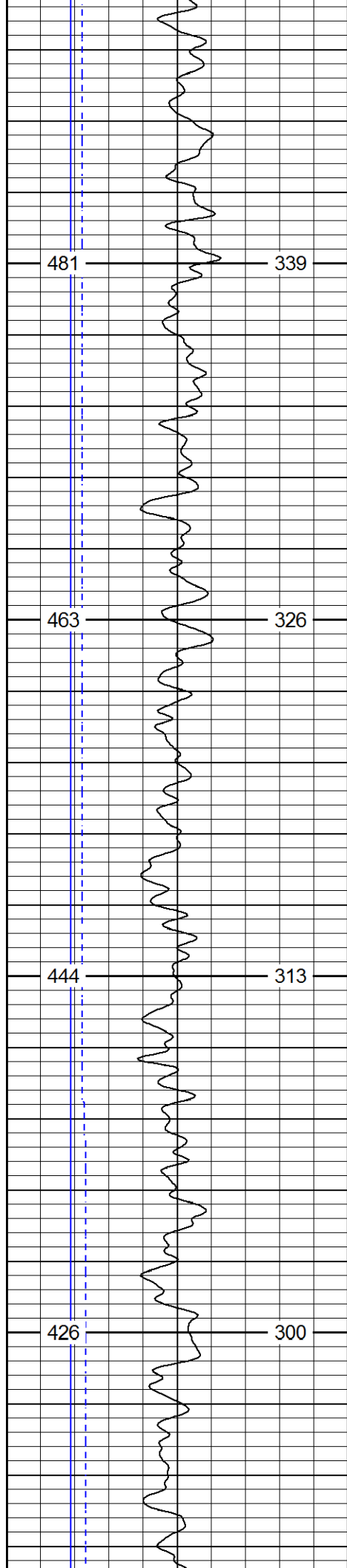
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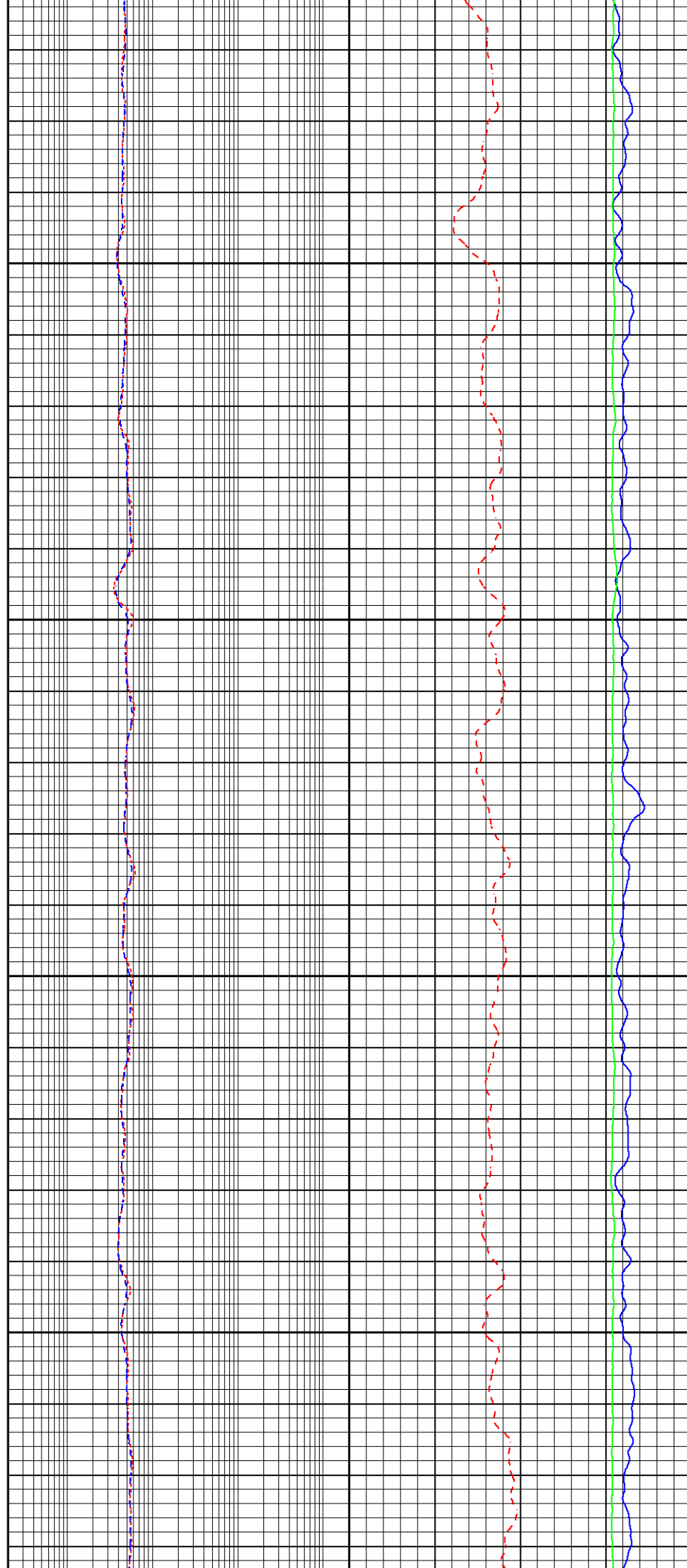


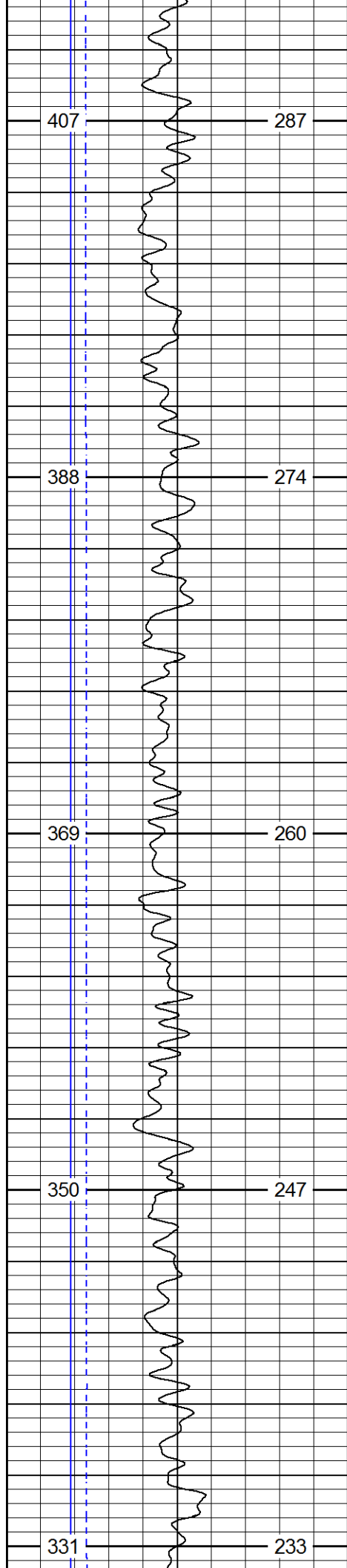
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7050

7100

7150





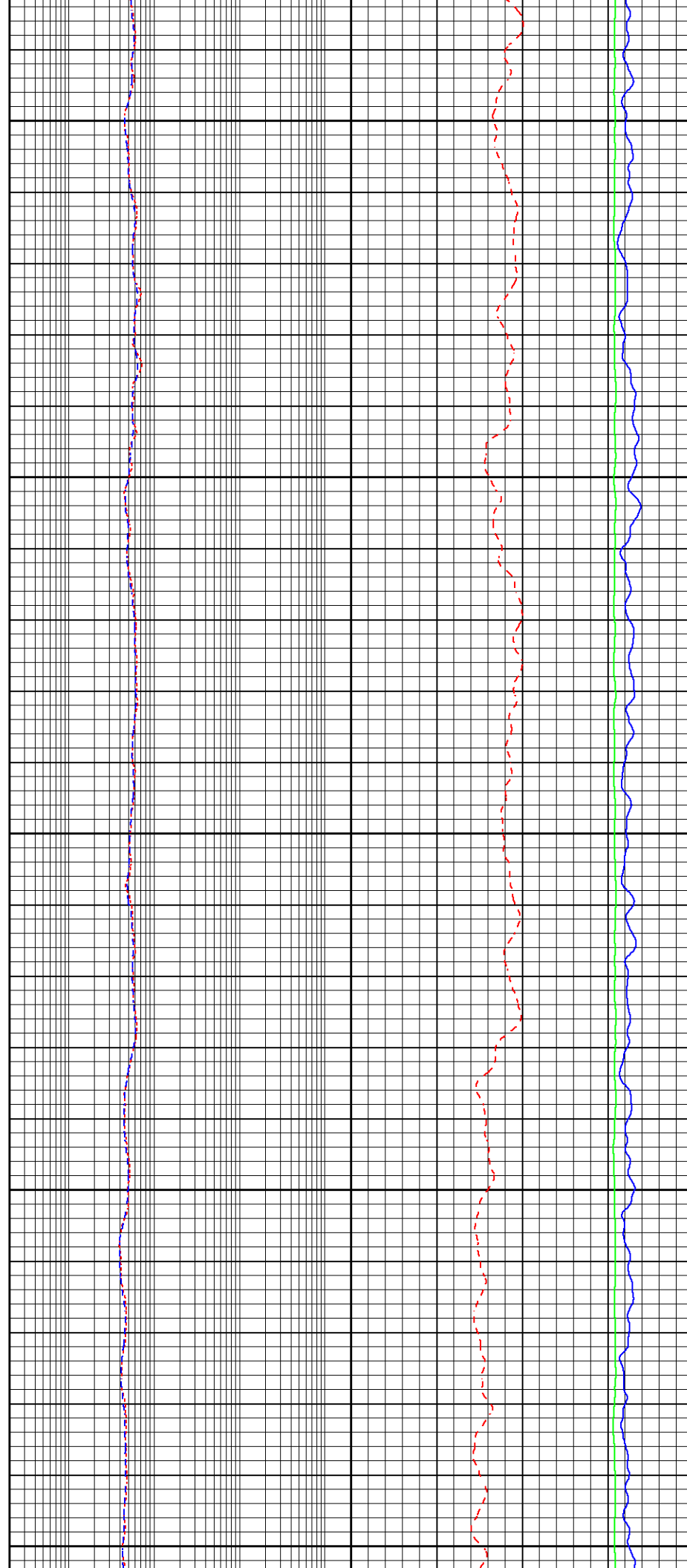
7200

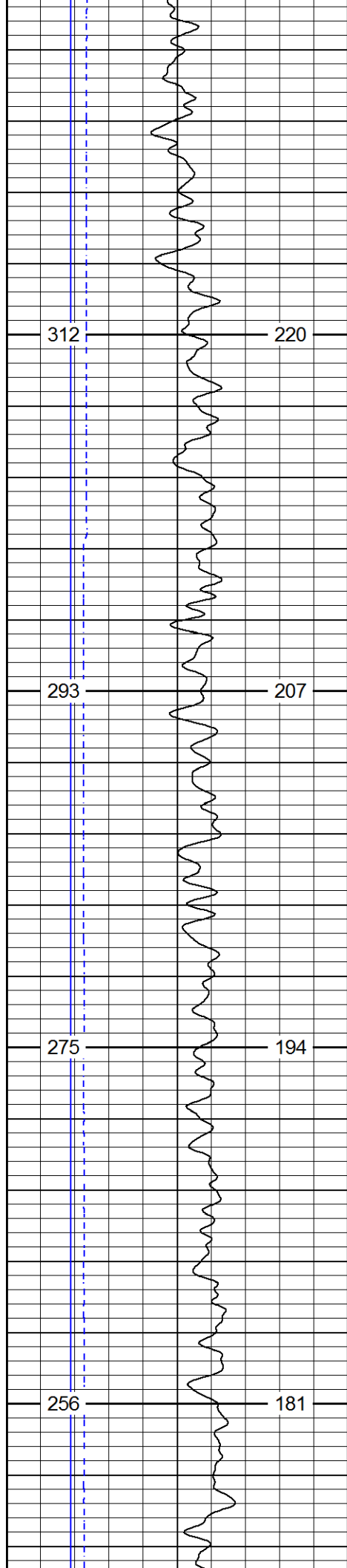
7250

7300

7350

7400



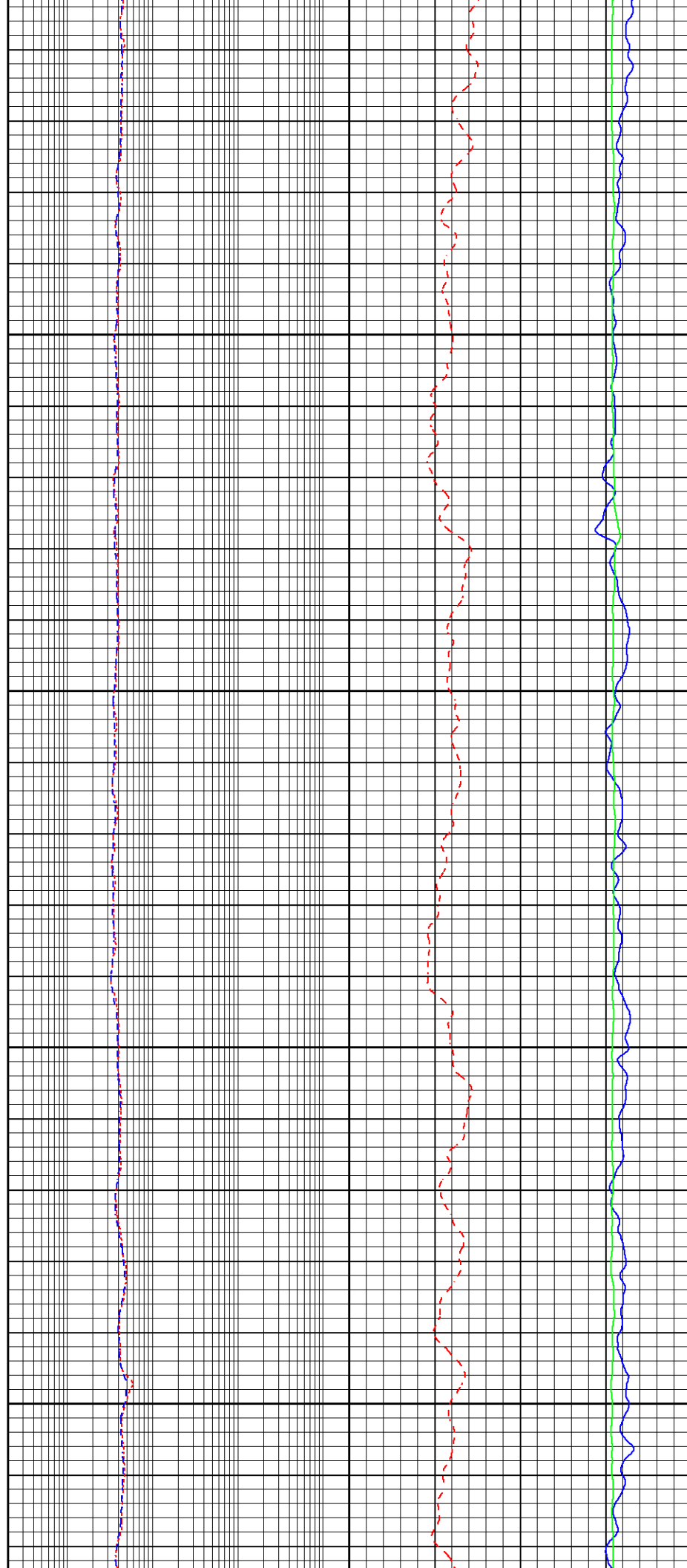


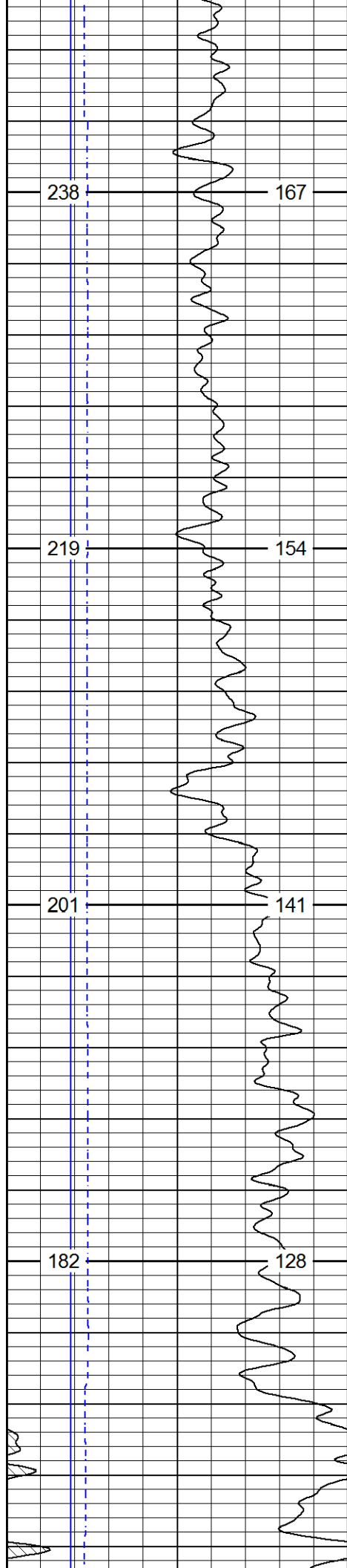
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7500

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7600



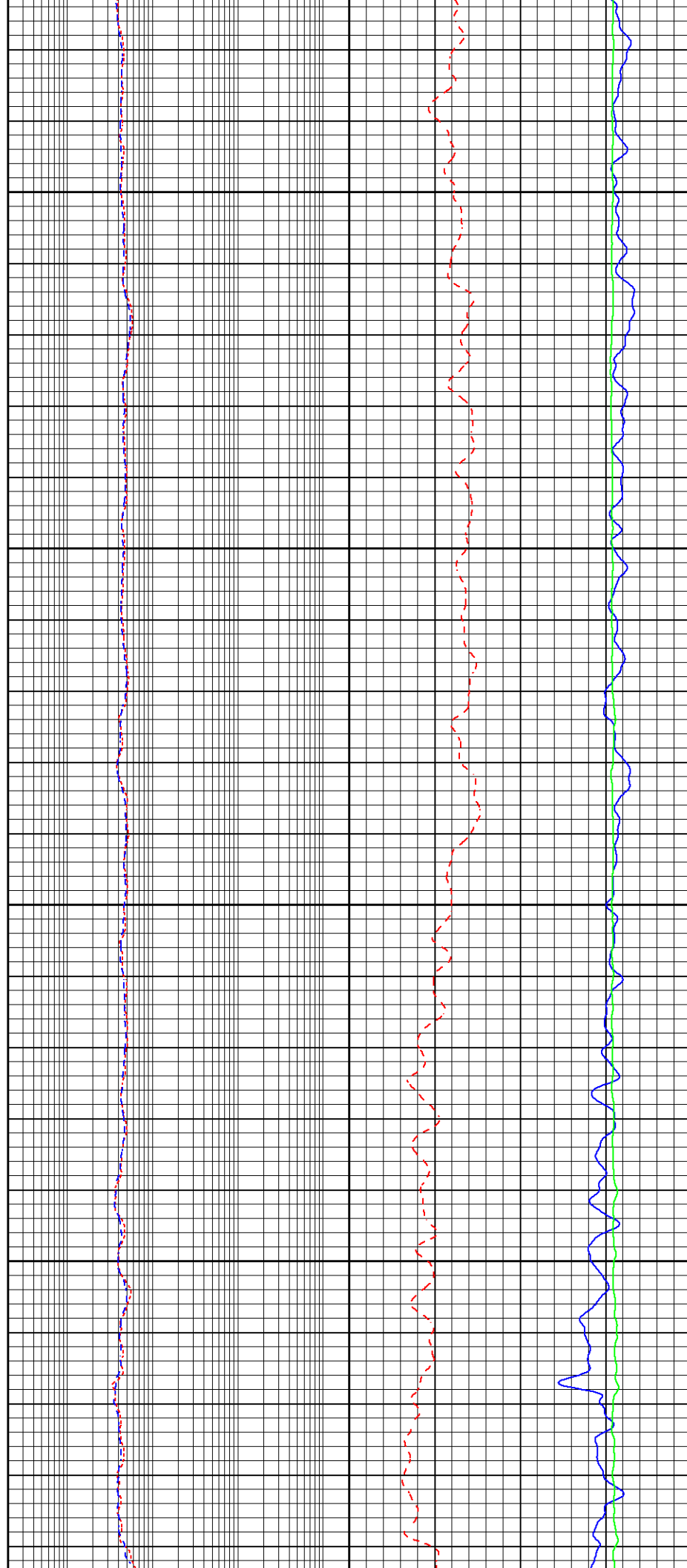


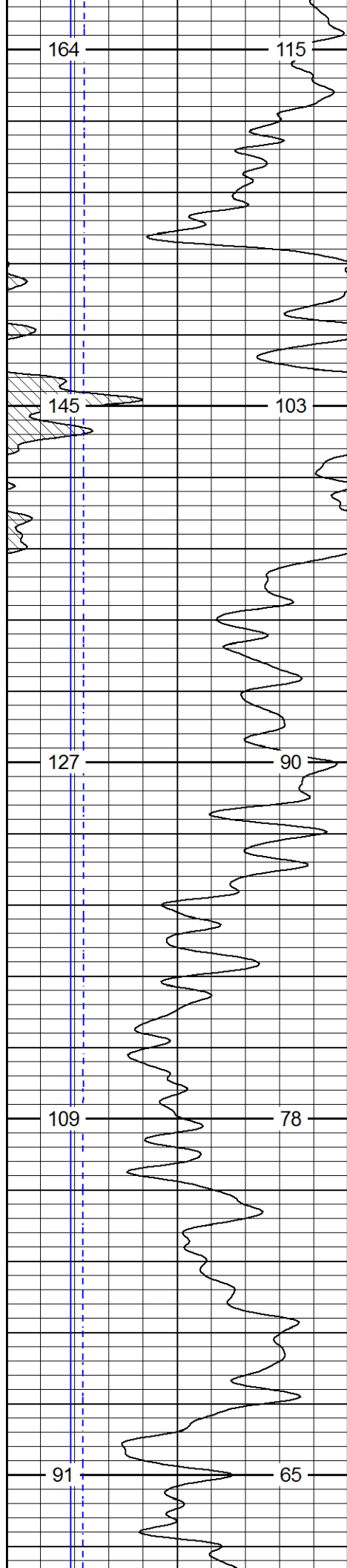
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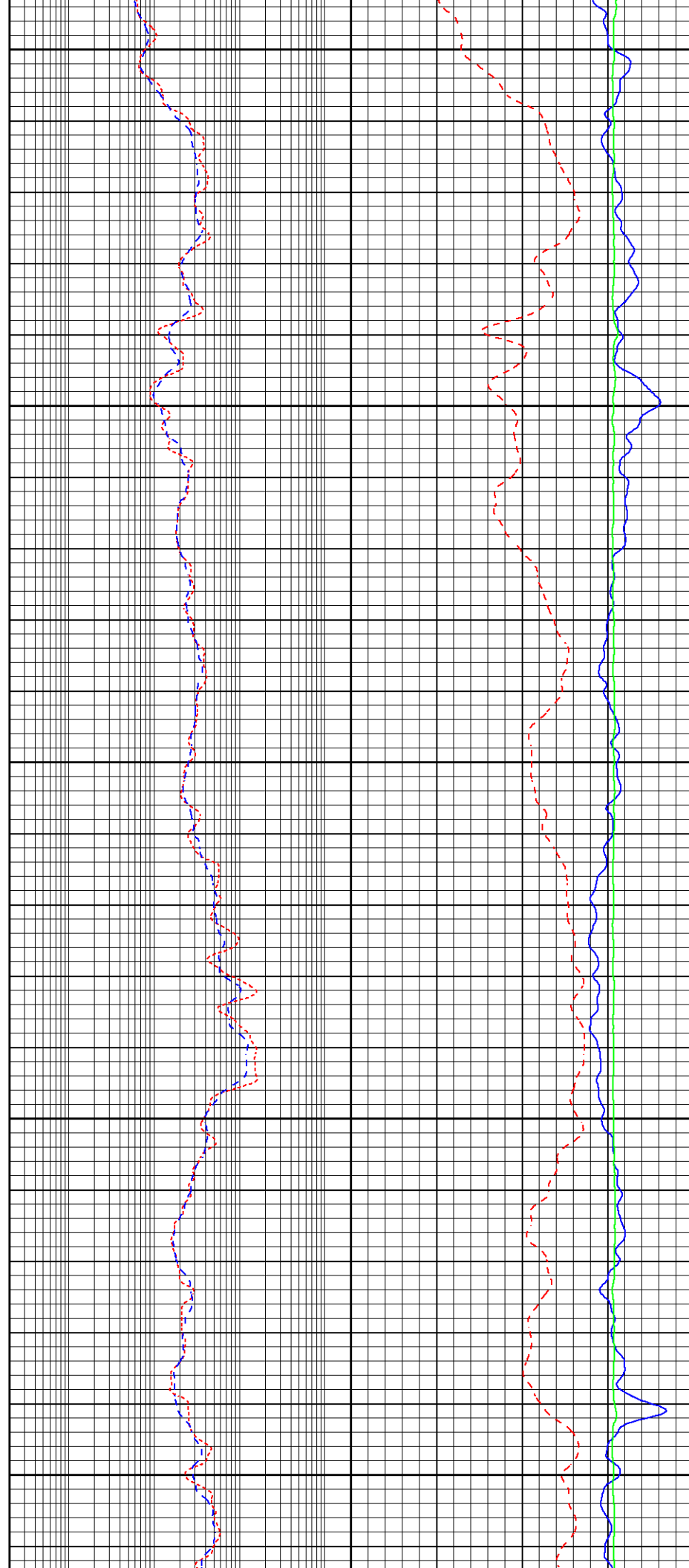
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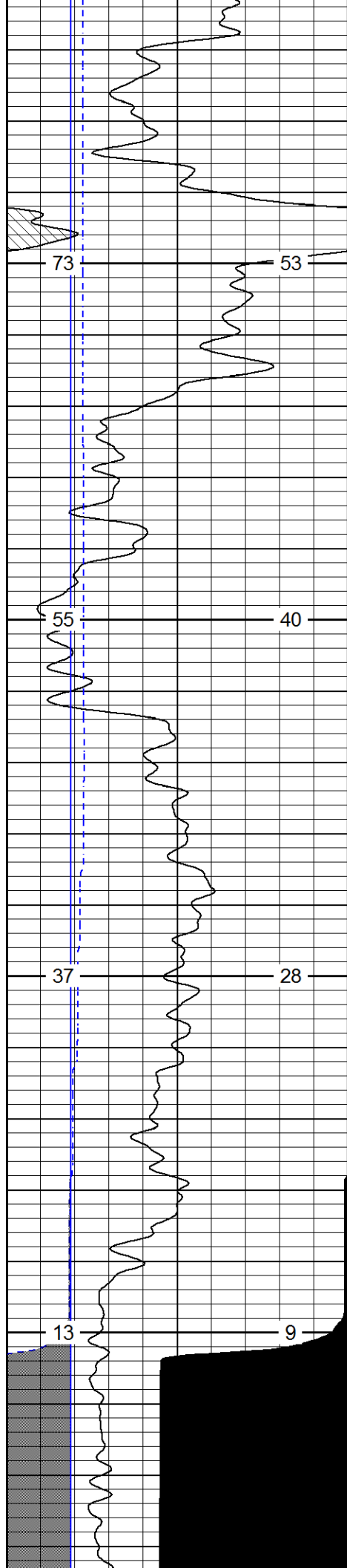
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7950

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8050



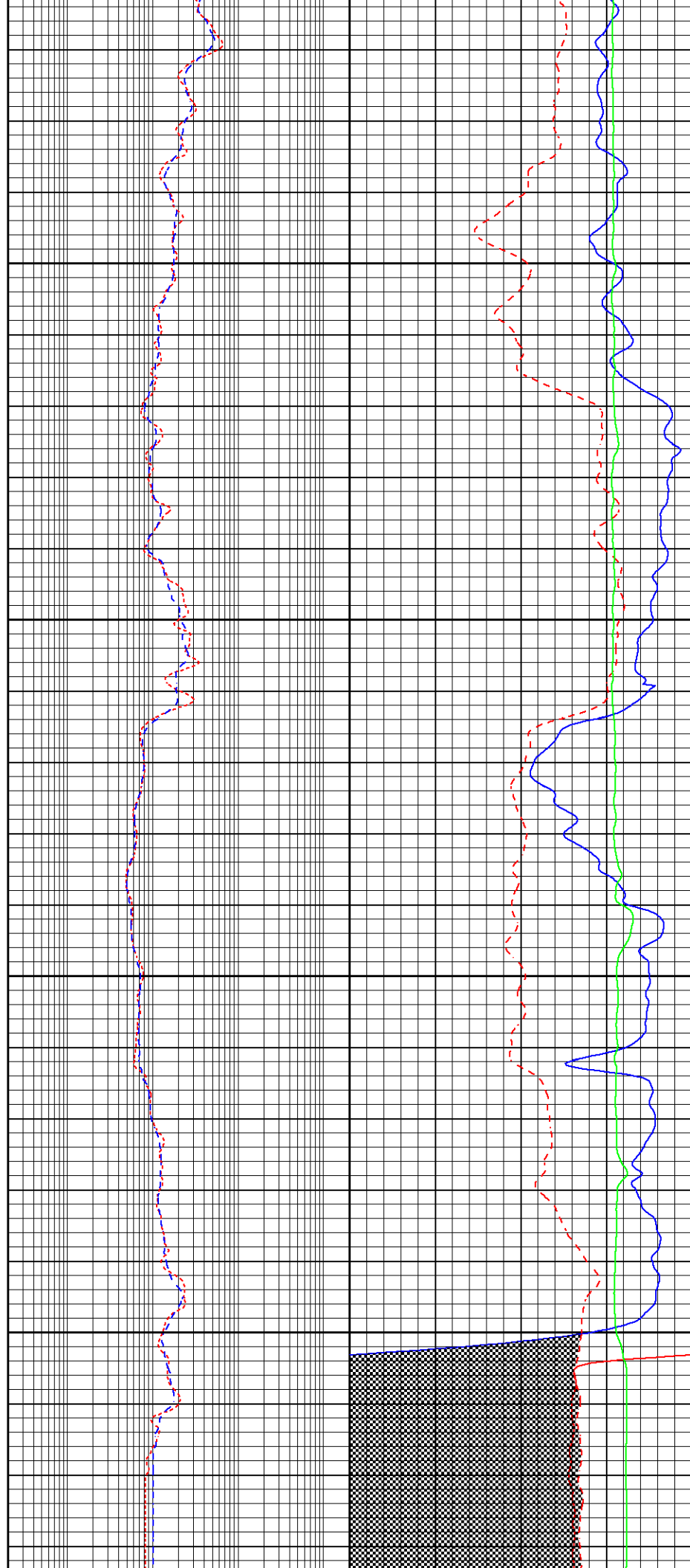


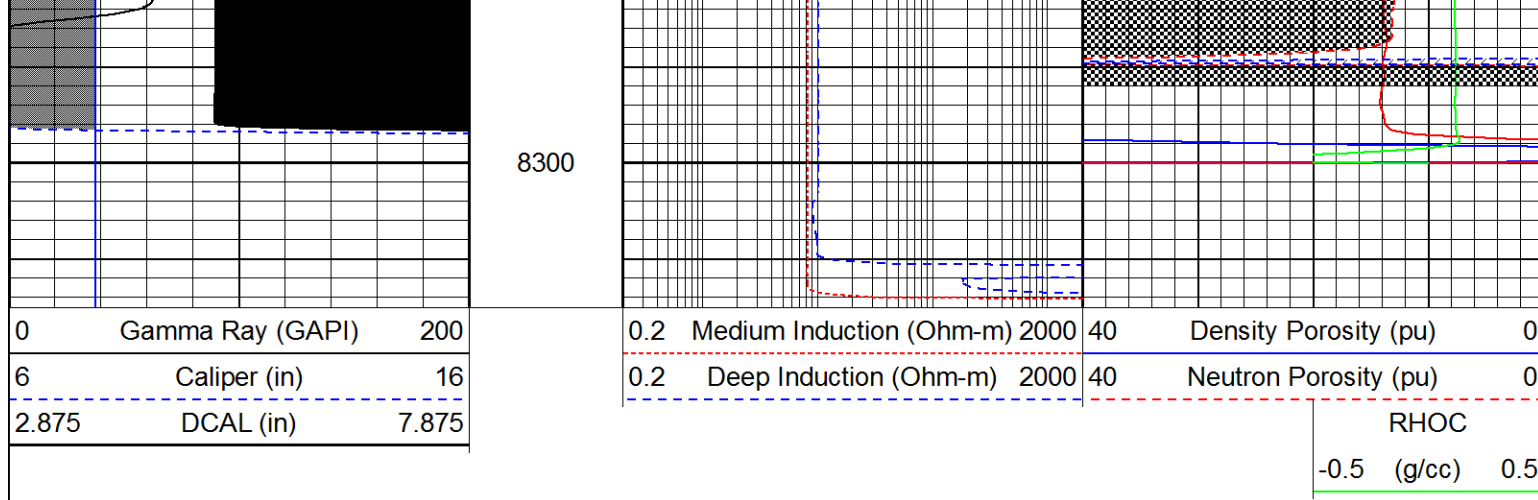
8100

8150

8200

8250





Calibration Report	
Database File	c:\programdata\warrior\data\gilbert_#17-22\gilbert.db
Dataset Pathname	pass3.1
Dataset Creation	Tue Apr 26 10:08:13 2016

Dual Induction Calibration Report

Serial-Model:	1011-PSI
Surface Cal Performed:	

Readings		References		Results	
Loop:	Air	Loop	Air	Loop	m b
Deep	0.000	1.000	0.000	1.000	mmho/m 0.510 -28.000
Medium	0.000	1.000	0.000	1.000	mmho/m 0.460 -27.000

Compensated Density Calibration Report

Serial-Model:	998-PSI
Source / Verifier:	/
Master Calibration Performed:	Mon Apr 21 14:34:15 2014
Before Survey Verification Performed:	
After Survey Verification Performed:	

Master Calibration					
Density			Far Detector	Near Detector	
Magnesium	1.750	g/cc	7210.00	9816.00	cps
Aluminum	2.690	g/cc	1326.00	6231.00	cps
Spine Angle = 74.98			Density/Spine Ratio = 0.536		
Size			Reading		
Small Ring	6.20	in	1.67		
Large Ring	19.85	in	1.38		

Before Survey Verification					
Target			Measured		
		g/cc			g/cc
		g/cc			g/cc
		g/cc			g/cc

After Survey Verification

Target		Measured			
g/cc g/cc g/cc		g/cc g/cc g/cc			
Compensated Neutron Calibration Report					
Serial Number:		826			
Tool Model:		PSI			
CALIBRATION					
Detector		Readings		Target	
Short Space		1.00	cps	1.00	cps
Long Space		1.00	cps	1.00	cps
		Normalization			
		1.9000			
		2.0900			
PRE-SURVEY VERIFICATION					
Detector		Readings		Measured	
				Target	
1)	Short Space	cps			
	Long Space	cps		pu	pu
2)	Short Space	cps			
	Long Space	cps		pu	
3)	Short Space	cps			
	Long Space	cps		pu	
POST-SURVEY VERIFICATION					
Detector		Readings		Measured	
				Target	
1)	Short Space	cps			
	Long Space	cps		pu	pu
2)	Short Space	cps			
	Long Space	cps		pu	pu
3)	Short Space	cps			
	Long Space	cps		pu	pu
Gamma Ray Calibration Report					
Serial Number:		939			
Tool Model:		PSI			
Performed:		Sat May 17 22:07:40 2014			
Calibrator Value:		1.0		GAPI	
Background Reading:		0.0		cps	
Calibrator Reading:		1.0		cps	
Sensitivity:		0.6000		GAPI/cps	