



LITHO DENSITY NEUTRON LOG

Company C & G DRILLING, INC		Company C & G DRILLING, INC	
Well	HALL C # 1	Well HALL C # 1	
Field	HAZLETT	Field HAZLETT	
County	BUTLER	County BUTLER	
State	KANSAS	State KANSAS	
Location:		API # : 15-015-24200-00-00	
Permanent Datum		GL	
Log Measured From		KB 9	
Drilling Measured From		KB	
SEC 2 TWP 24S RGE 4E		Elevation 1418	
Other Services		DIL MICRO	
Elevation		K.B. 1427	
		D.F. 1426	
		G.L. 1418	
Date	3-12-2023		
Run Number	ONE		
Depth Driller	2700		
Depth Logger	2699		
Bottom Logged Interval	2697		
Top Log Interval	200		
Casing Driller	8.625" @ 202		
Casing Logger	8.625" @ 211		
Bit Size	7.875"		
Type Fluid in Hole	MUD		
Density / Viscosity			
pH / Fluid Loss			
Source of Sample			
Rm @ Meas. Temp			
Rmf @ Meas. Temp			
Rmc @ Meas. Temp			
Source of Rmf / Rmc			
Rm @ BHT			
Time Circulation Stopped			
Time Logger on Bottom	6:30 AM		
Maximum Recorded Temperature	102		
Equipment Number	OW2		
Location	HOMINY, OK		
Recorded By	SHELDON TYLER		
Witnessed By	MR. STOUT	MR. WOLFE	

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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

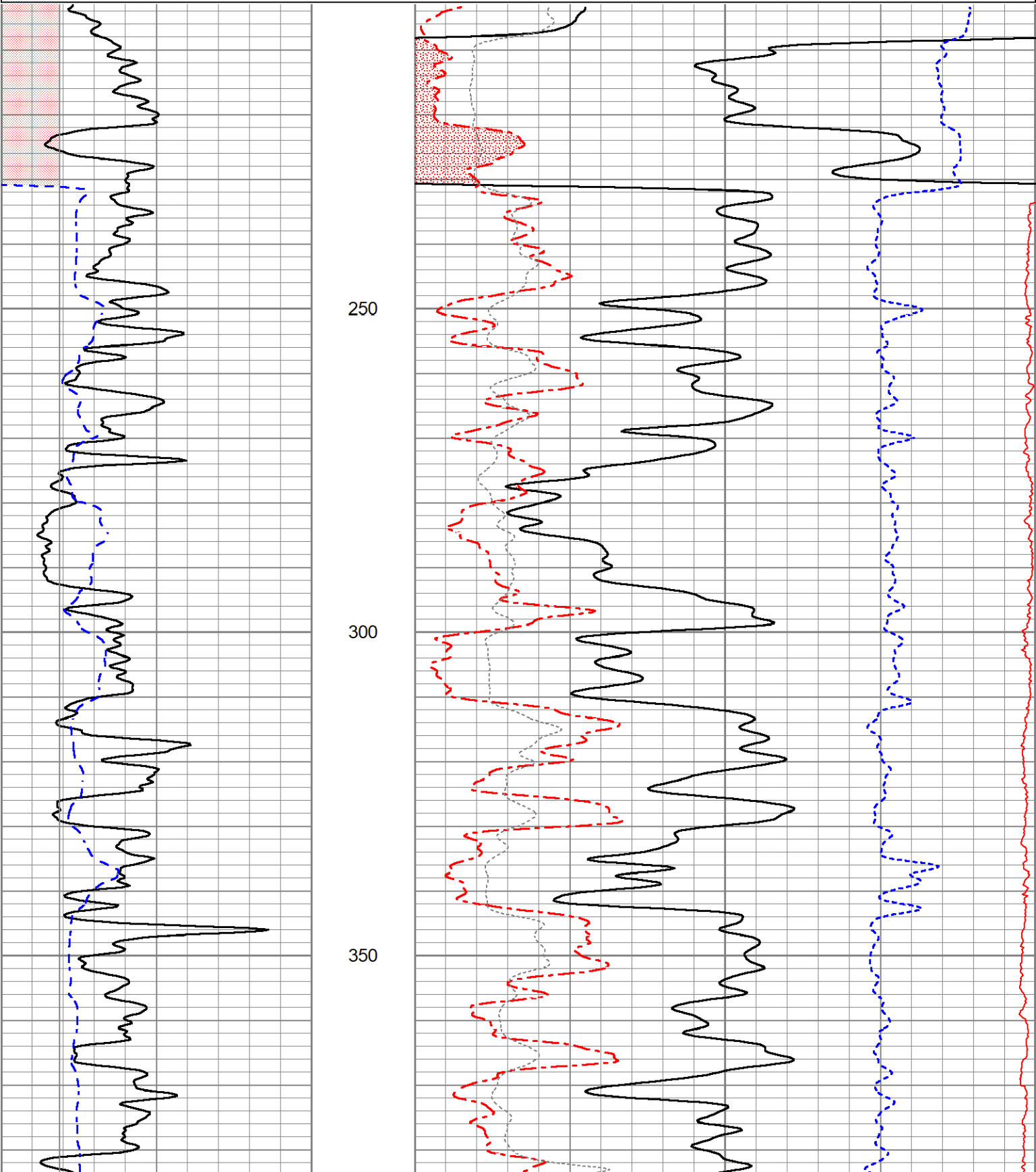
FILE # OW2-9178 C&G DRILLING
KIDD, LUKE
THANK YOU FOR USING OSAGE WIRELINE

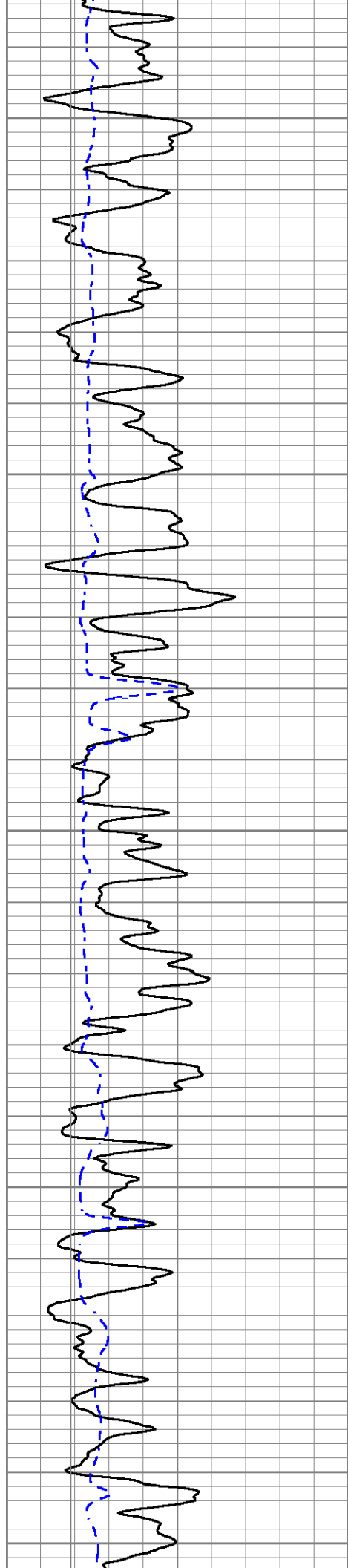


5" DENSITY NEUTRON LOG

Database File	ow2-9178 c g drilling.db
Dataset Pathname	pass4.5
Presentation Format	stdIn-6-16_5
Dataset Creation	Sun Mar 12 08:52:16 2023
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	30	Density Porosity (pu)	-10
6	Bit size (in)	16	30	Neutron Porosity (pu)	-10
6	Density Caliper (in)	16	0	PE (barn)	10
			-0.5	Correction (g/cc)	0.5
			3000	Line Tension (lb)	500





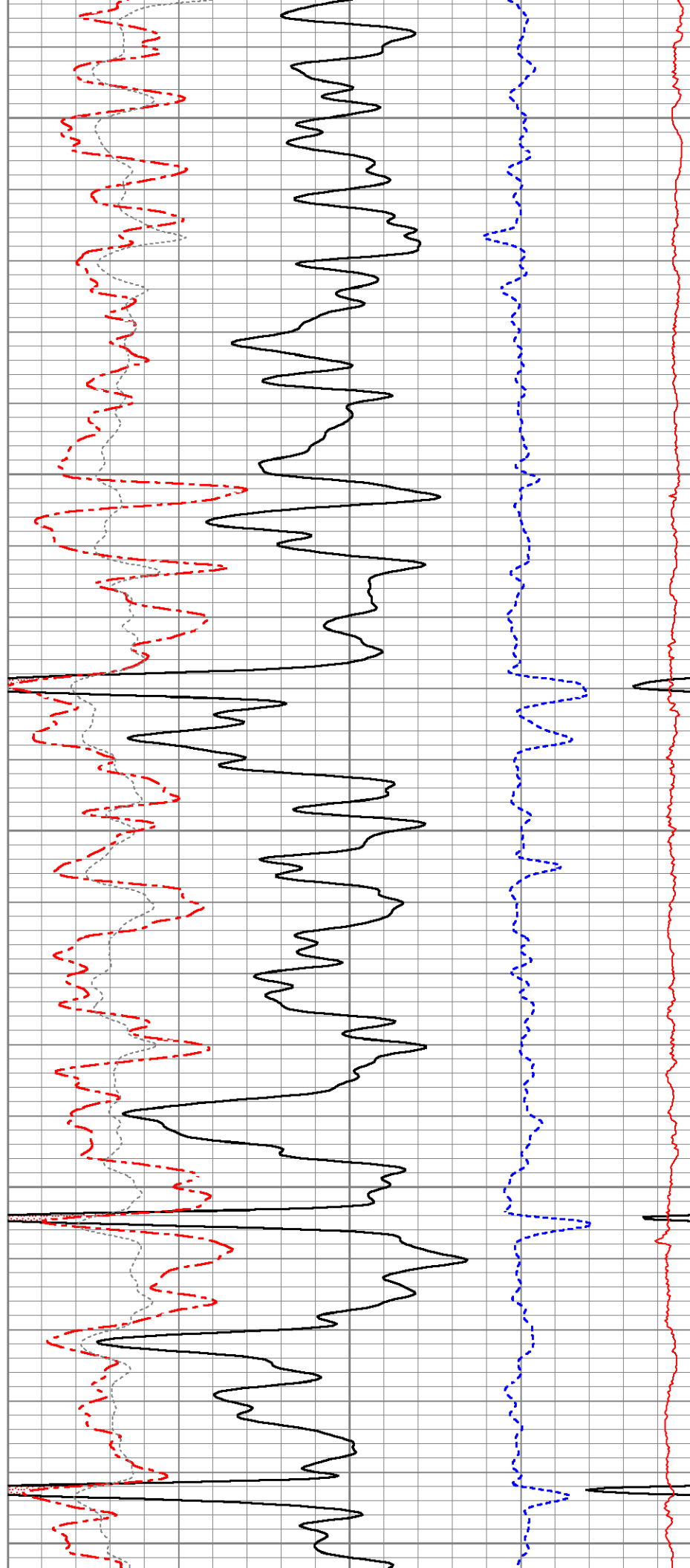
400

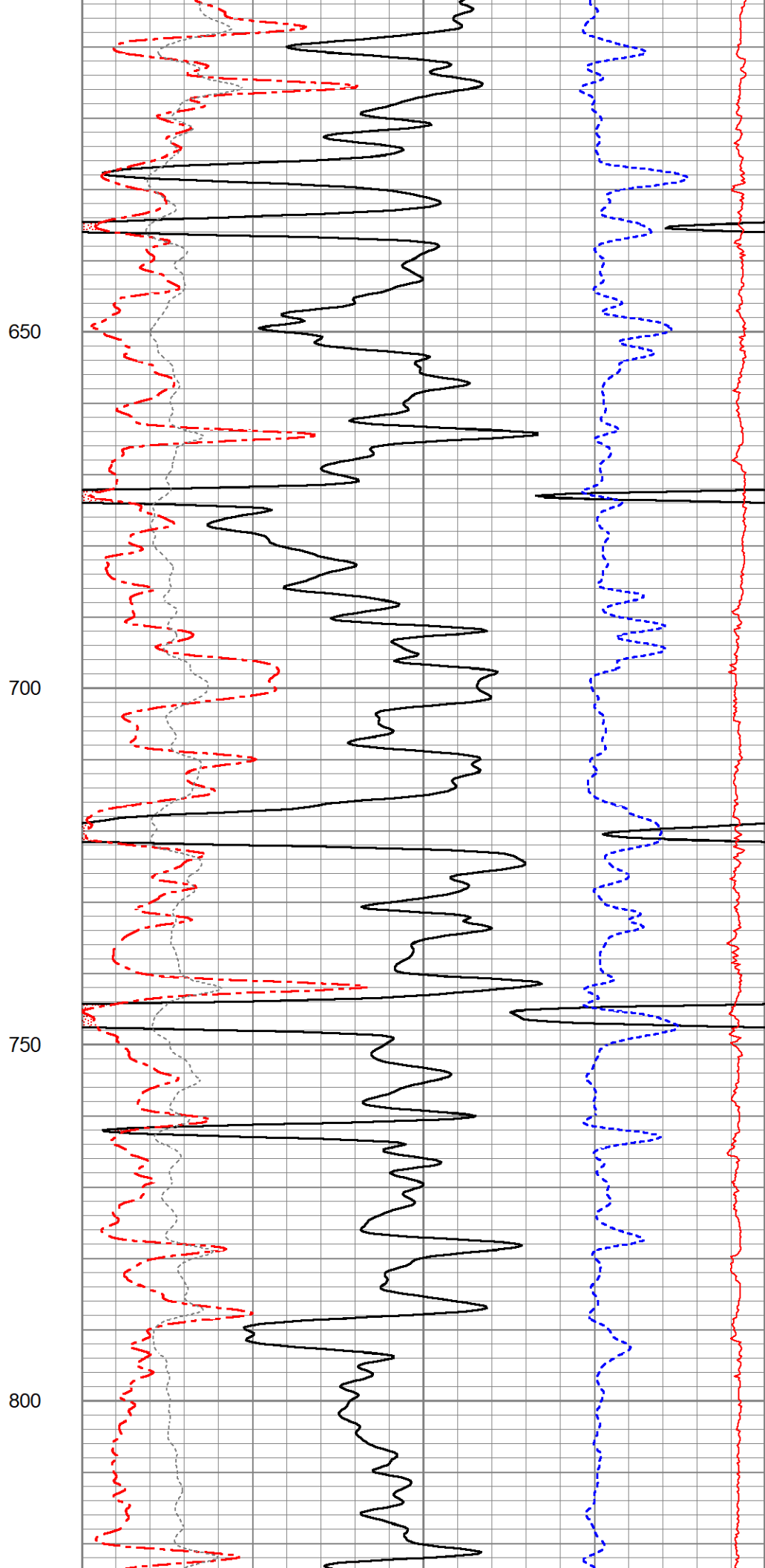
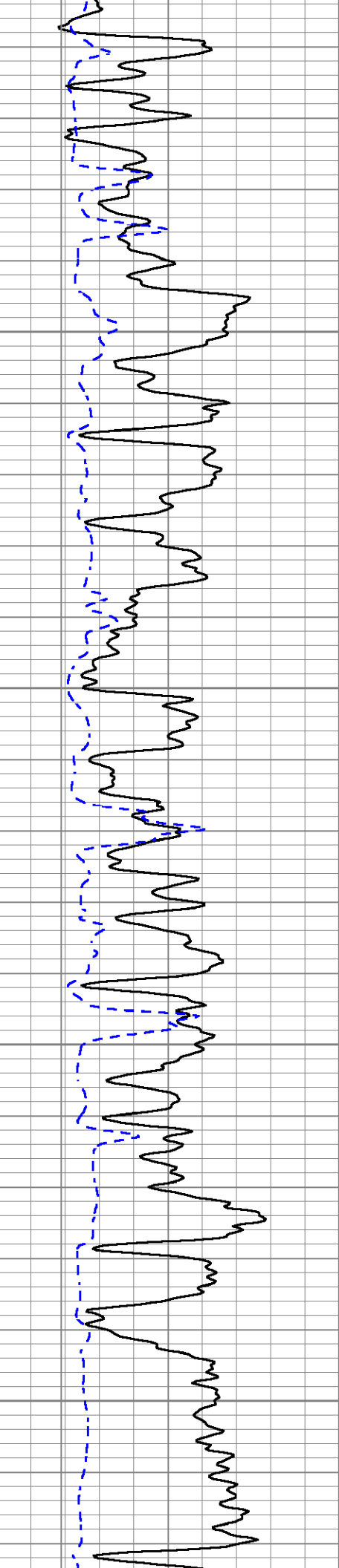
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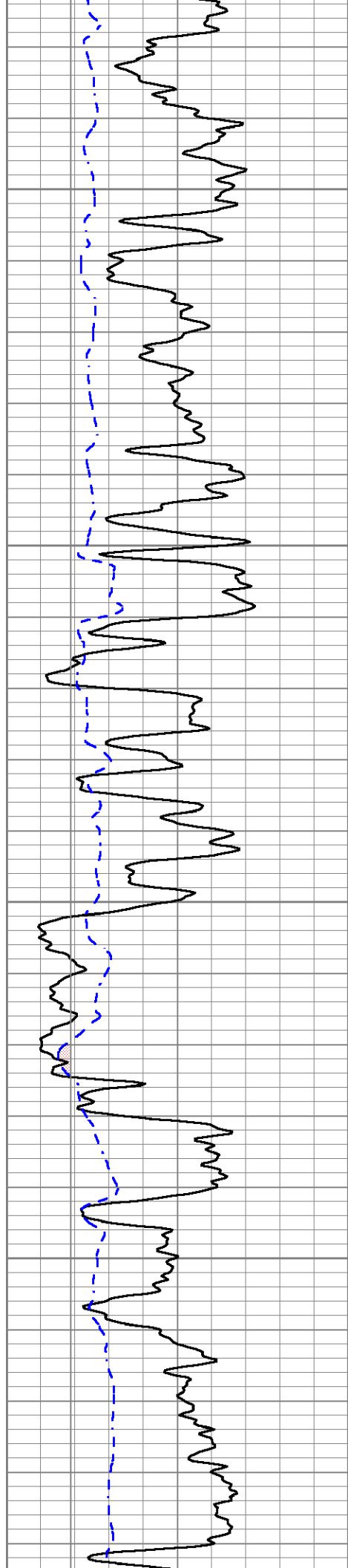
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550

600





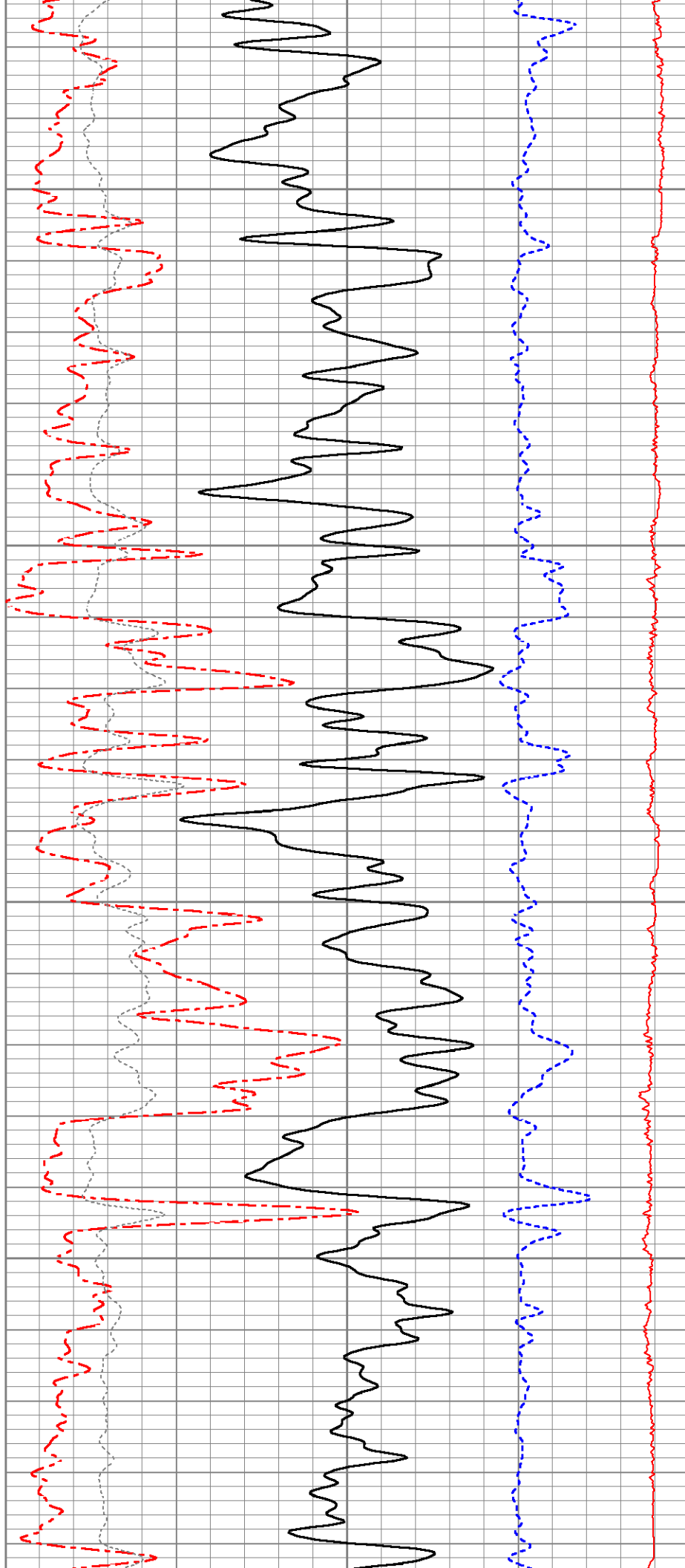


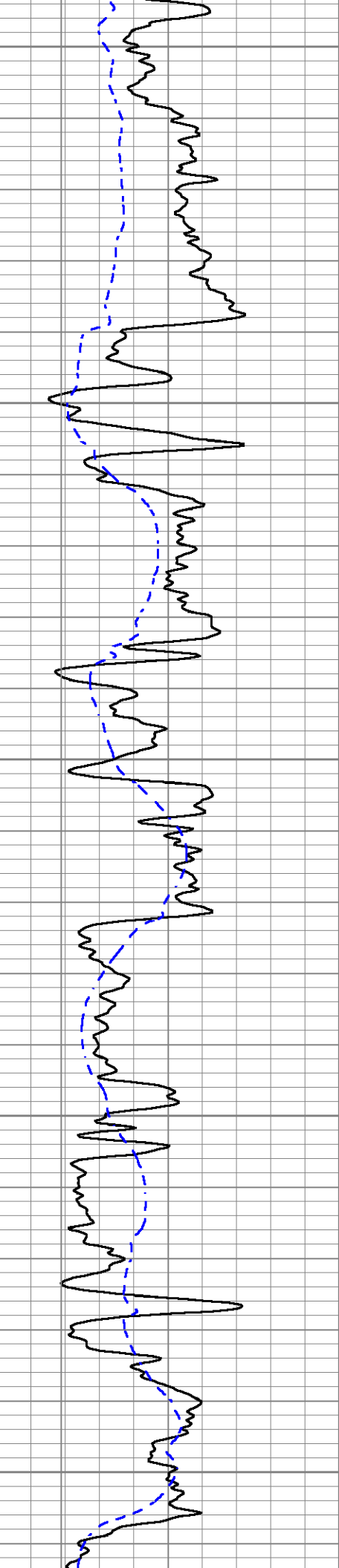
850

900

950

1000





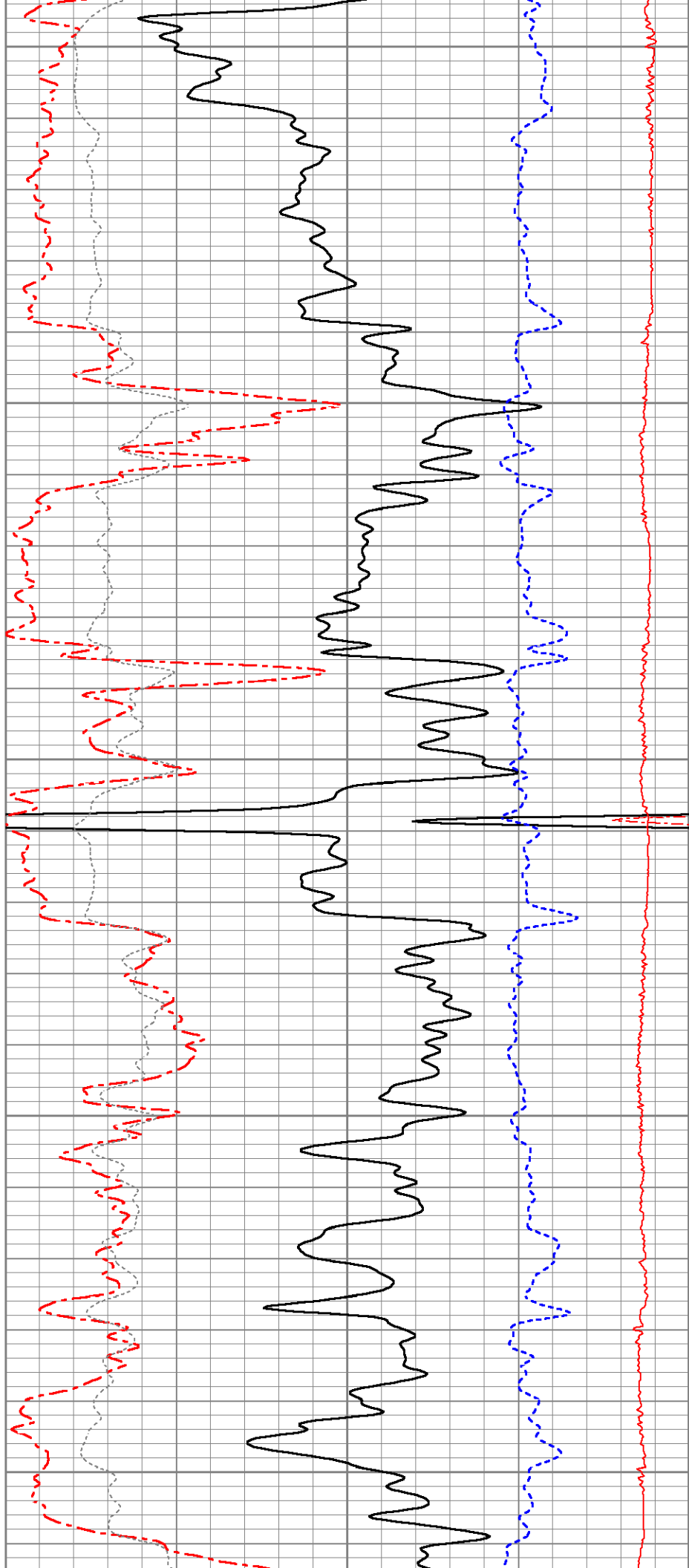
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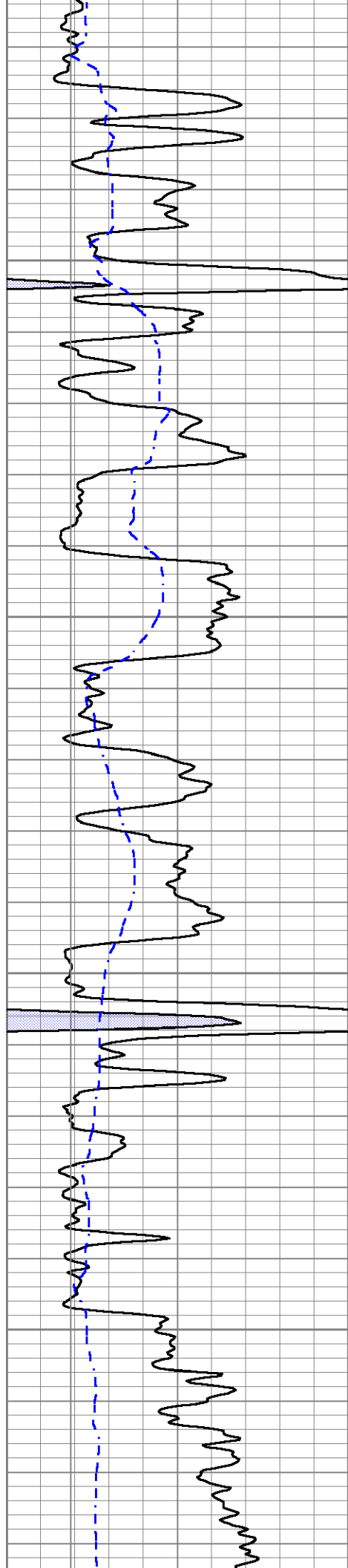
1100

1150

1200

1250



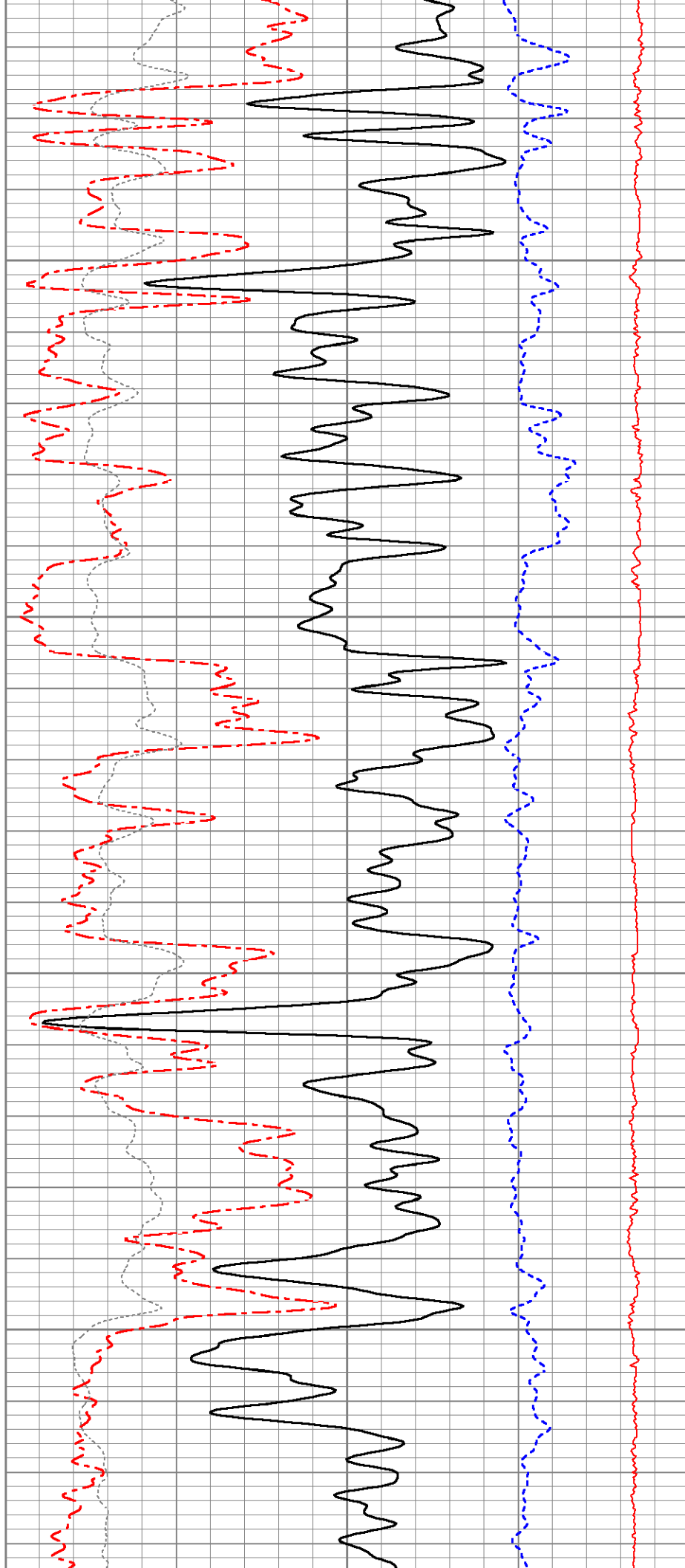


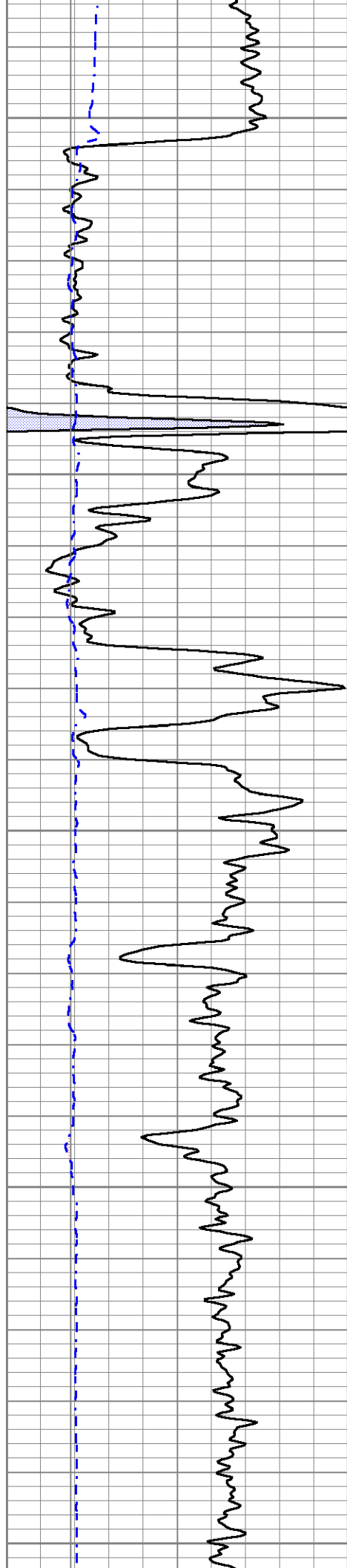
1300

1350

1400

1450





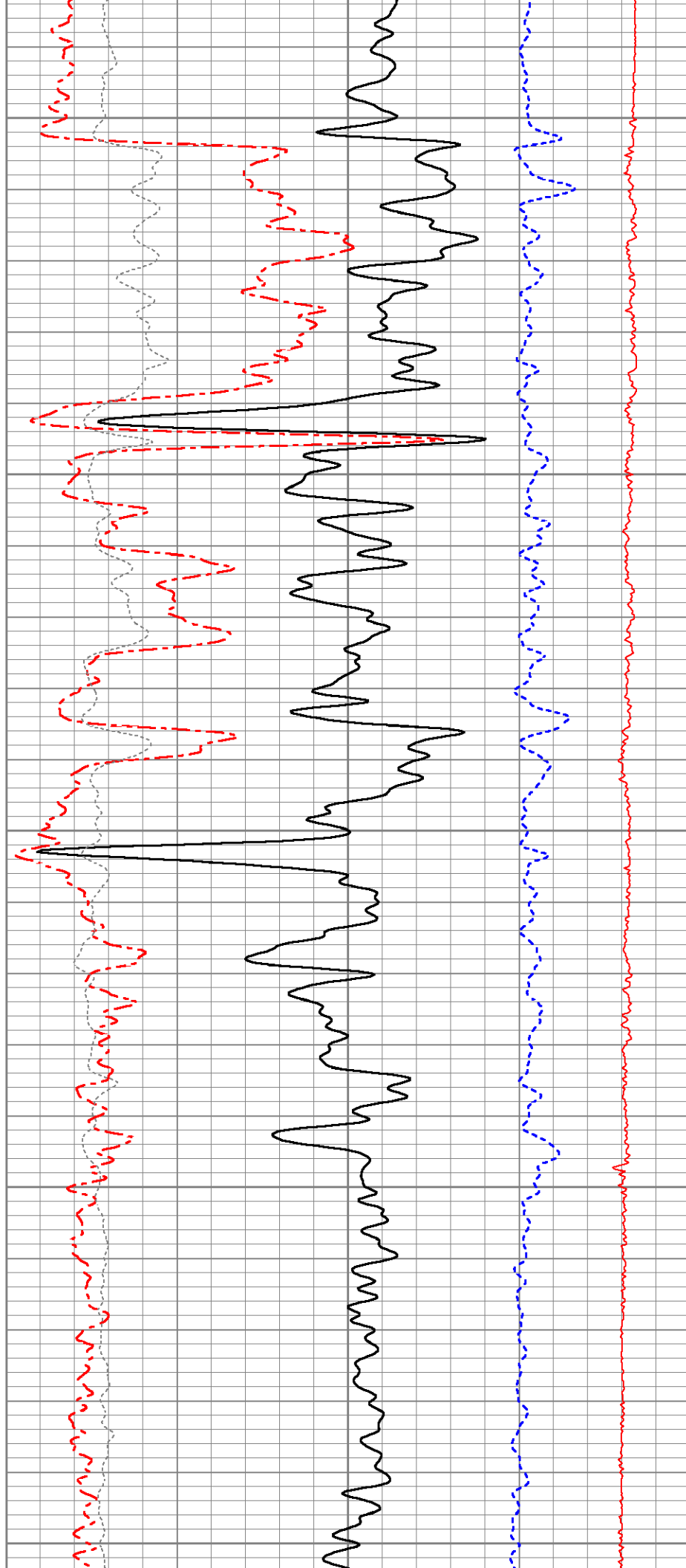
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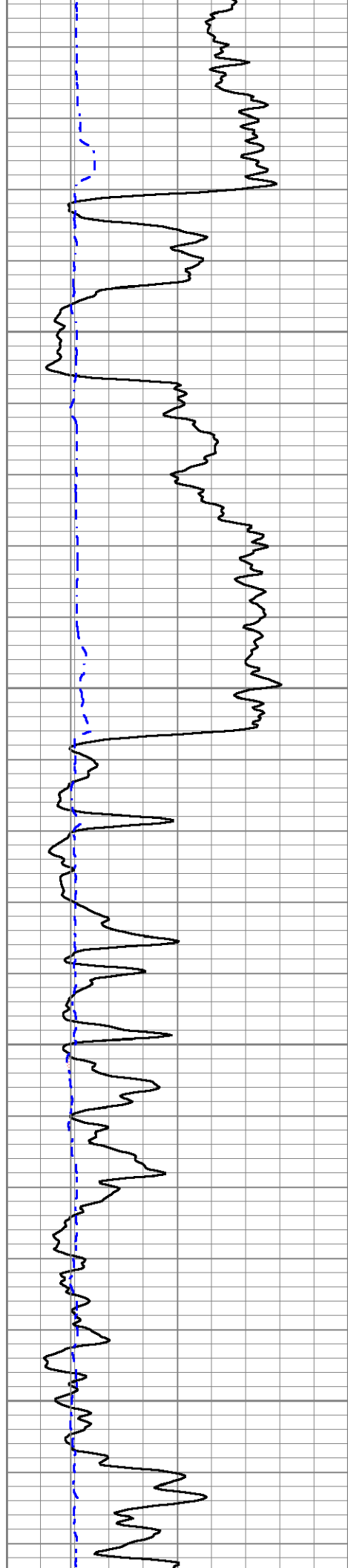
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1600

1650

1700



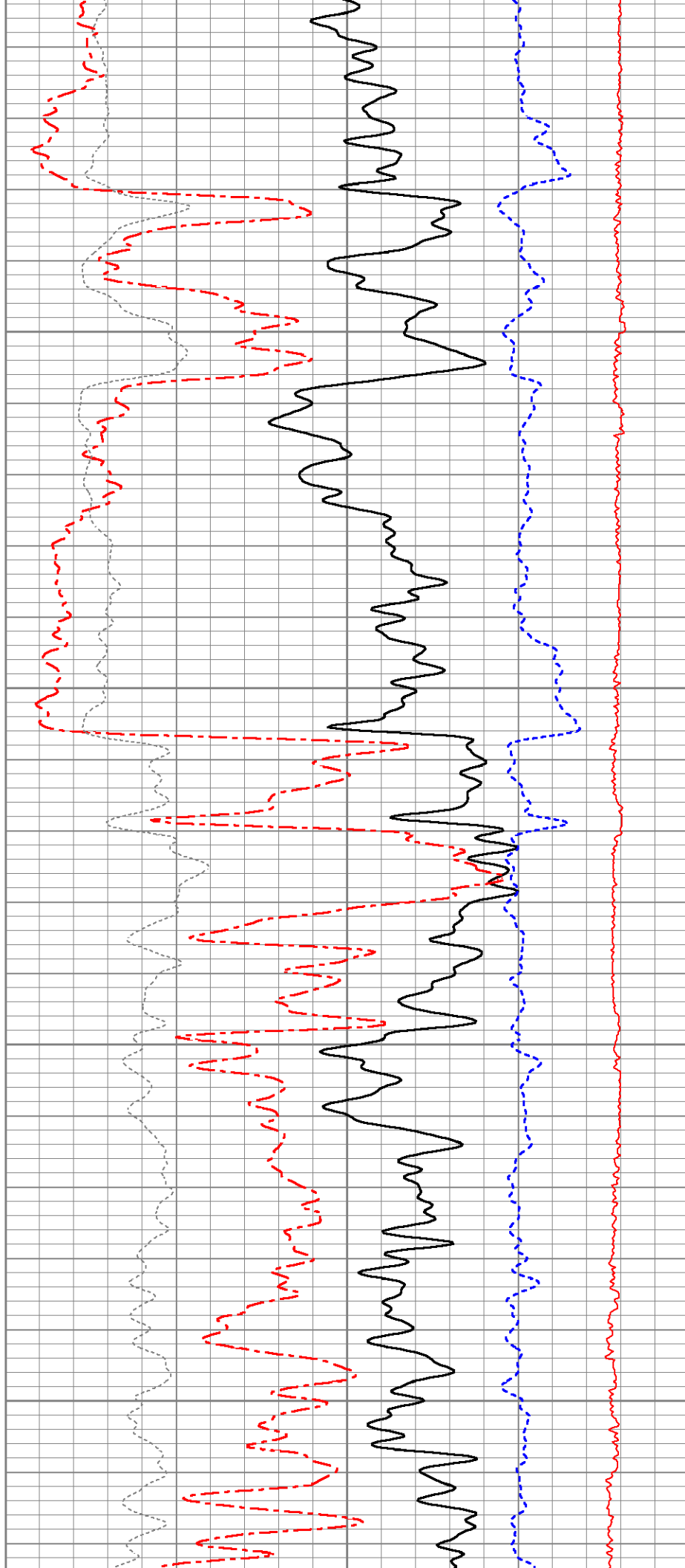


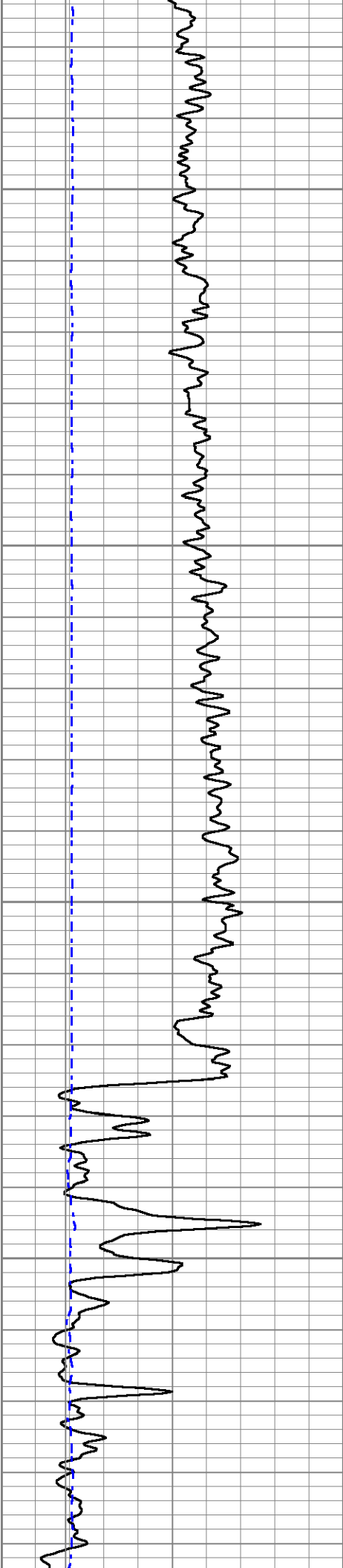
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1800

1850

1900



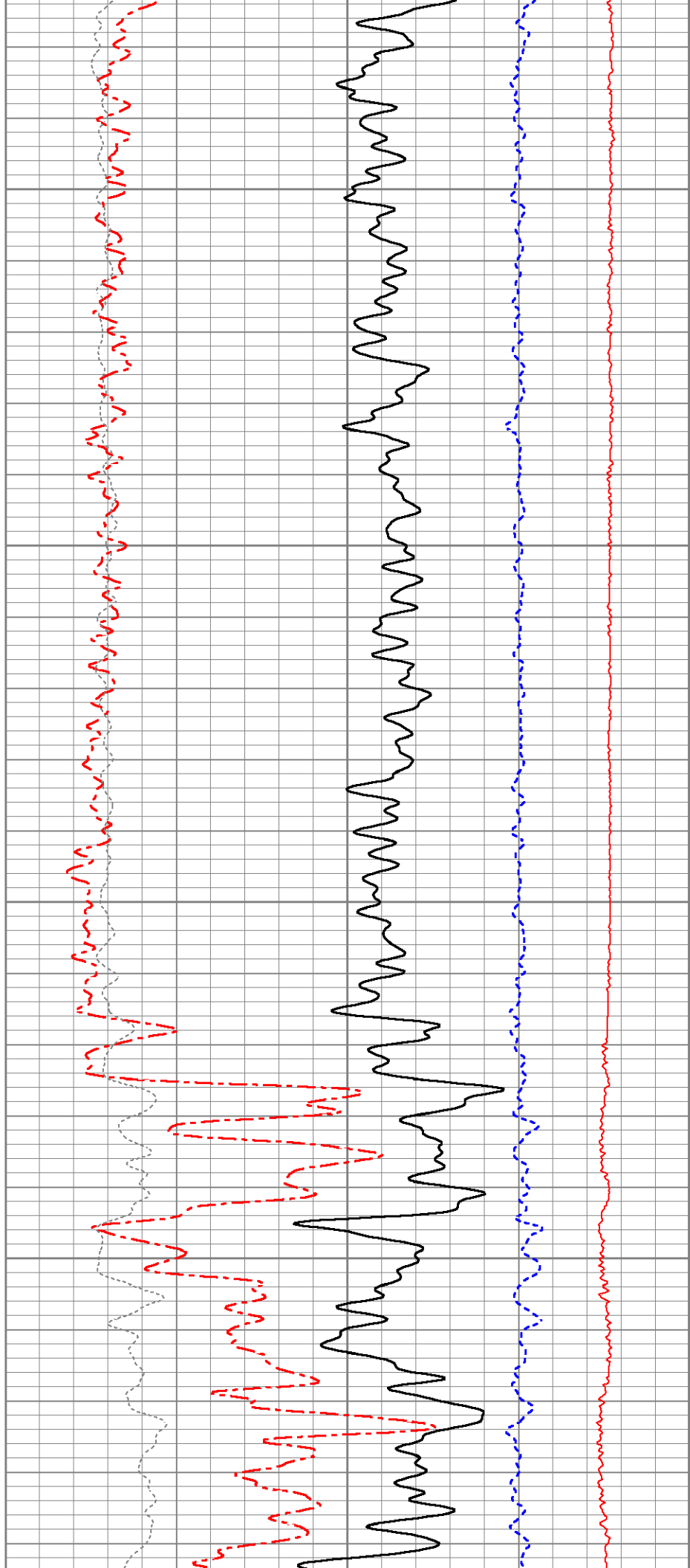


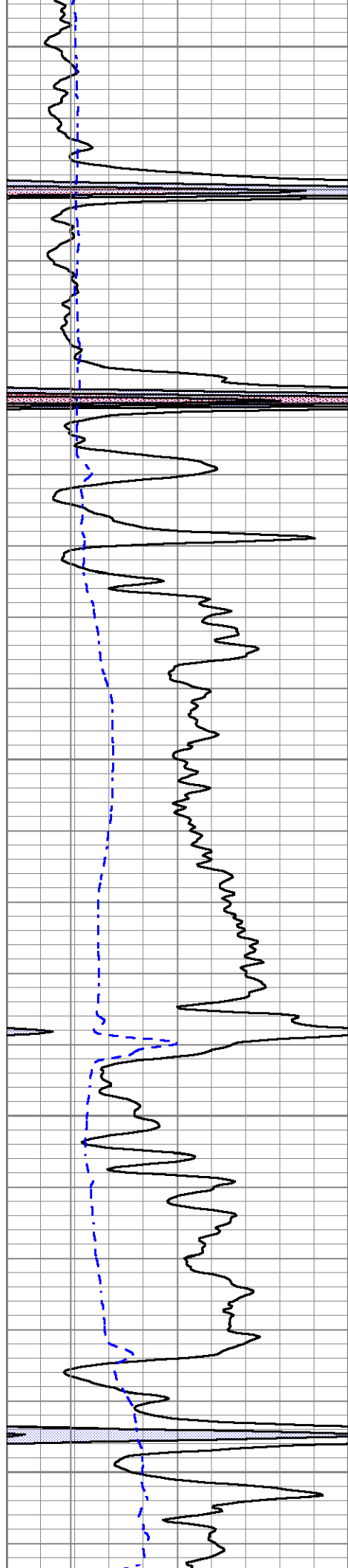
1950

2000

2050

2100





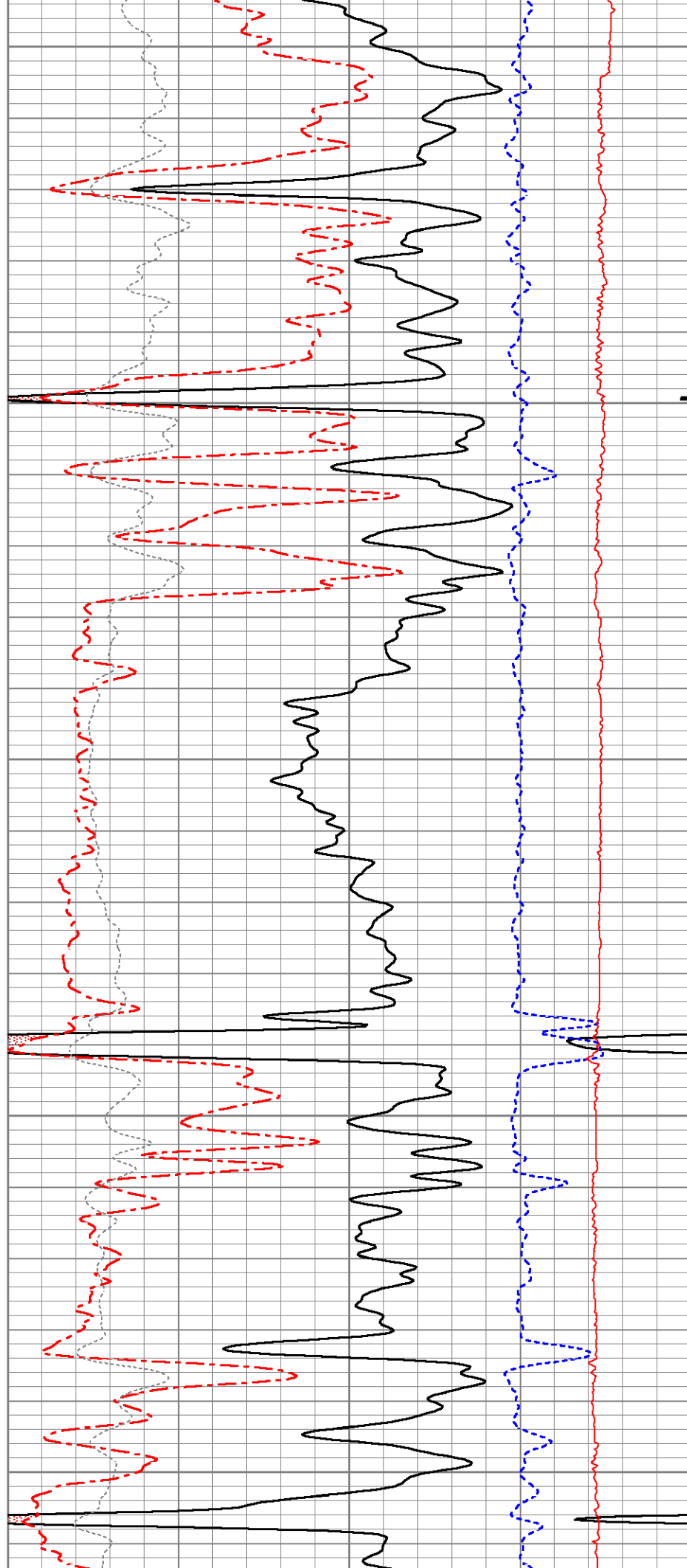
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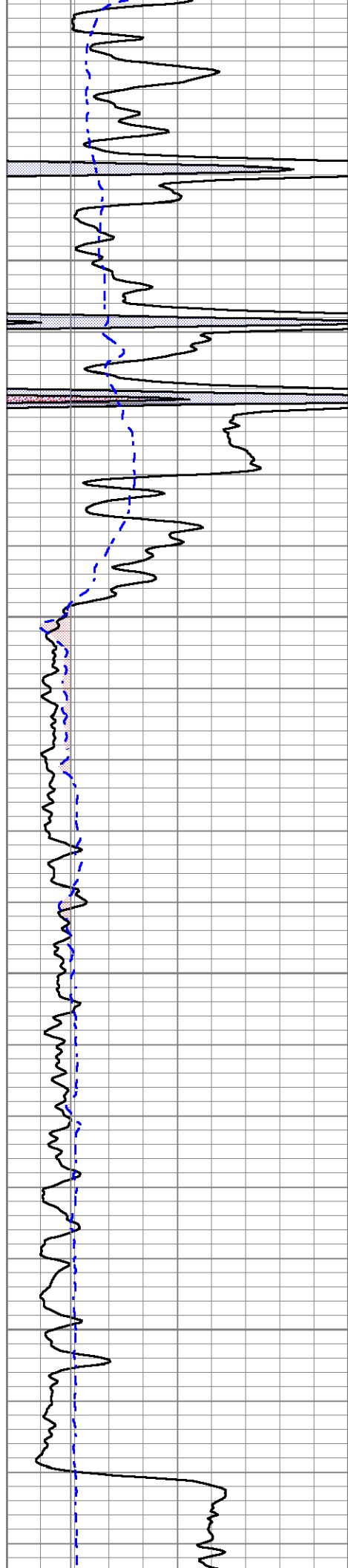
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2250

2300

2350



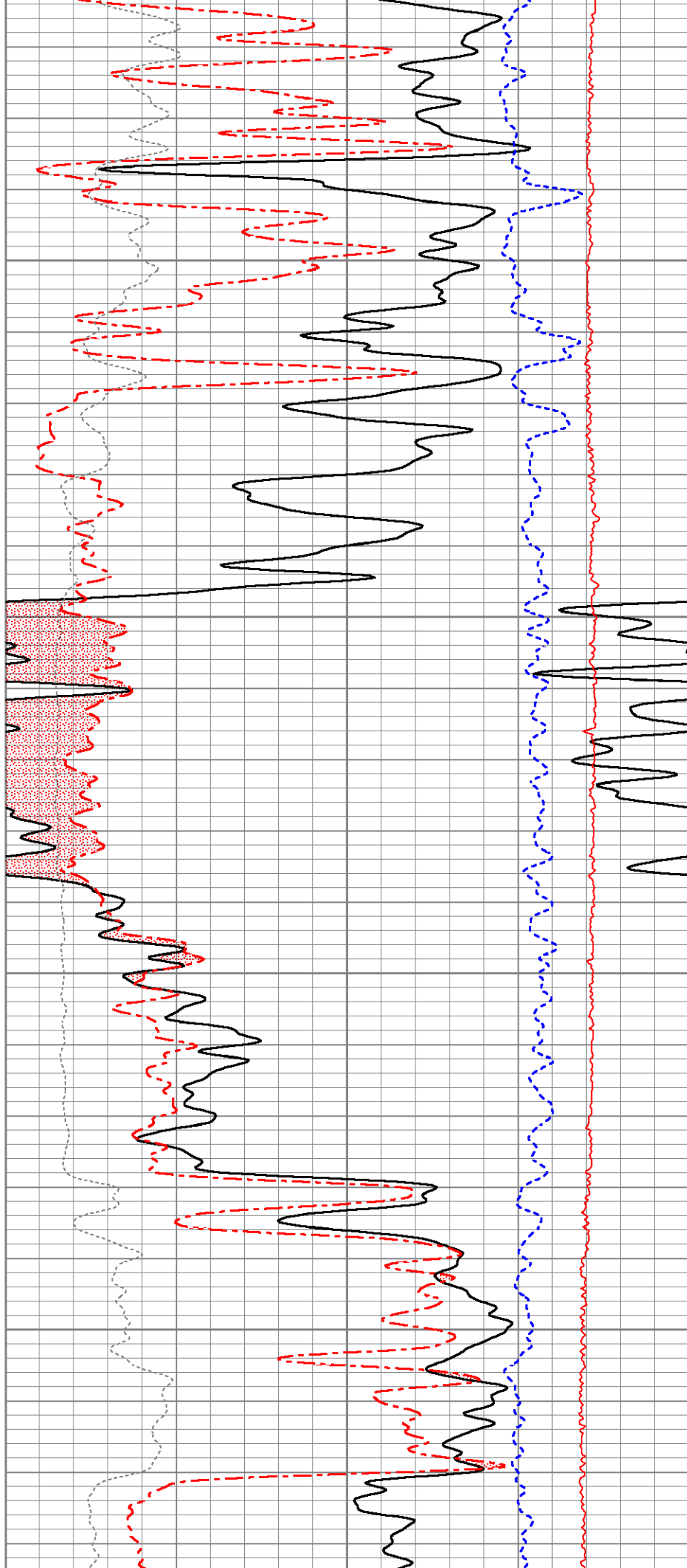


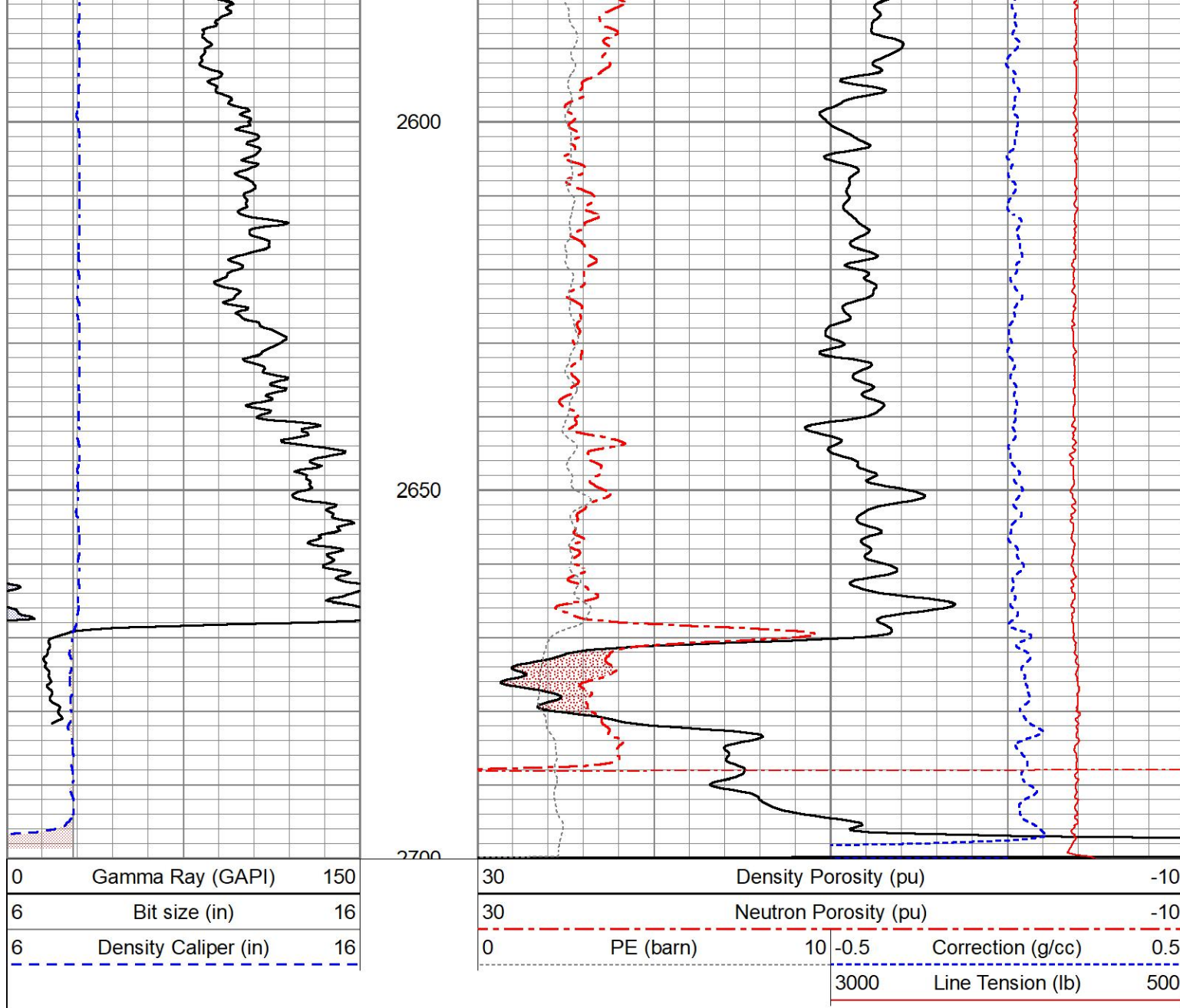
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2450

2500

2550

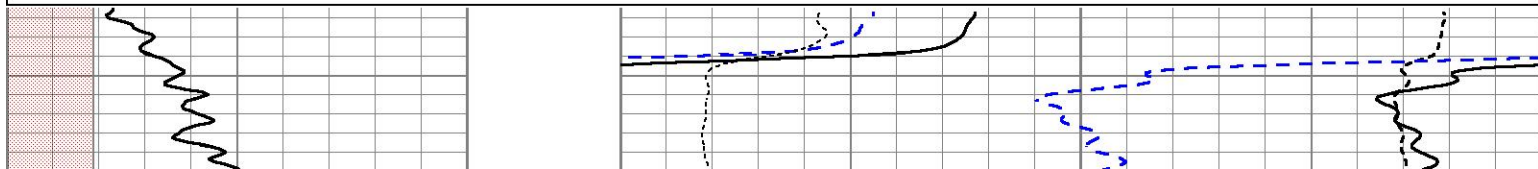


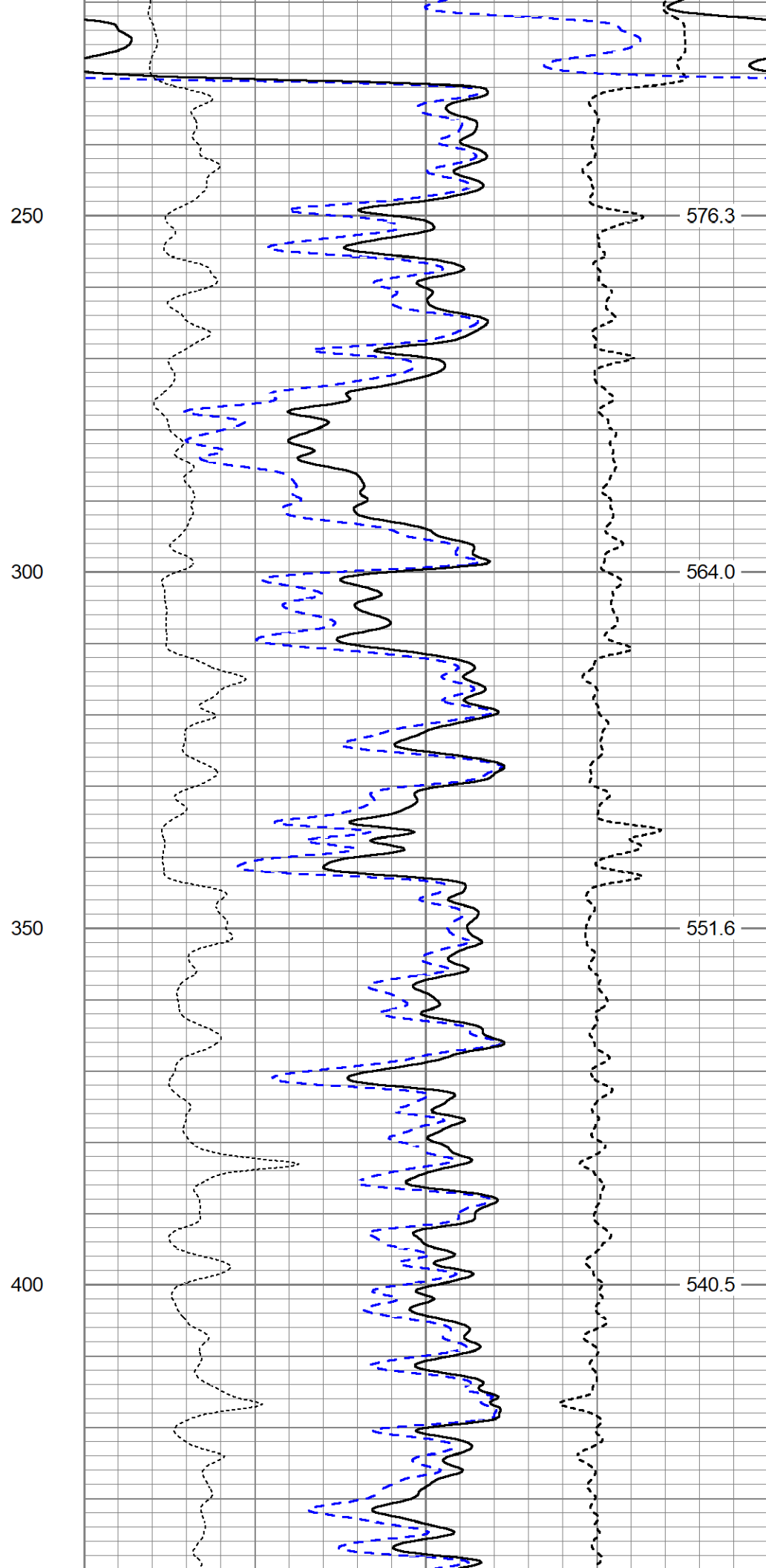
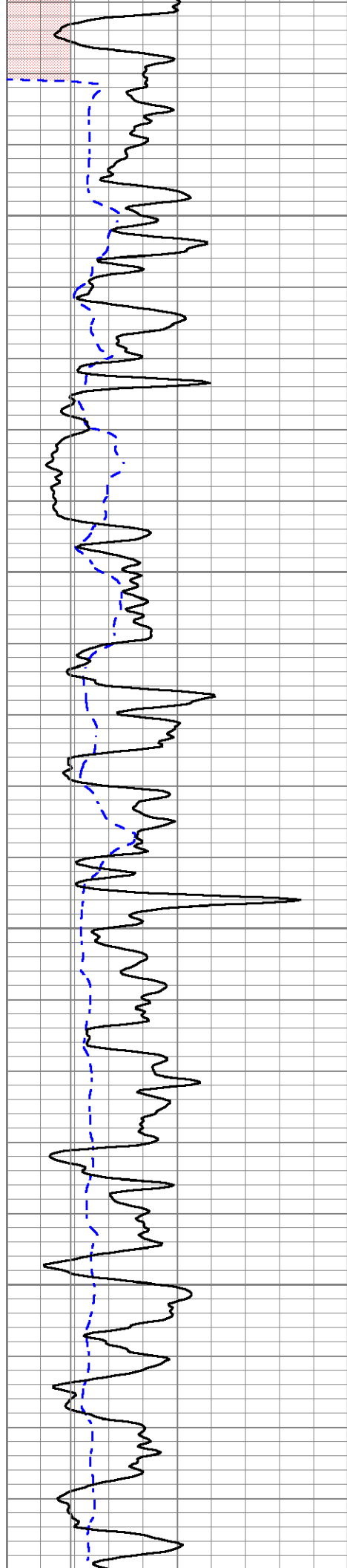


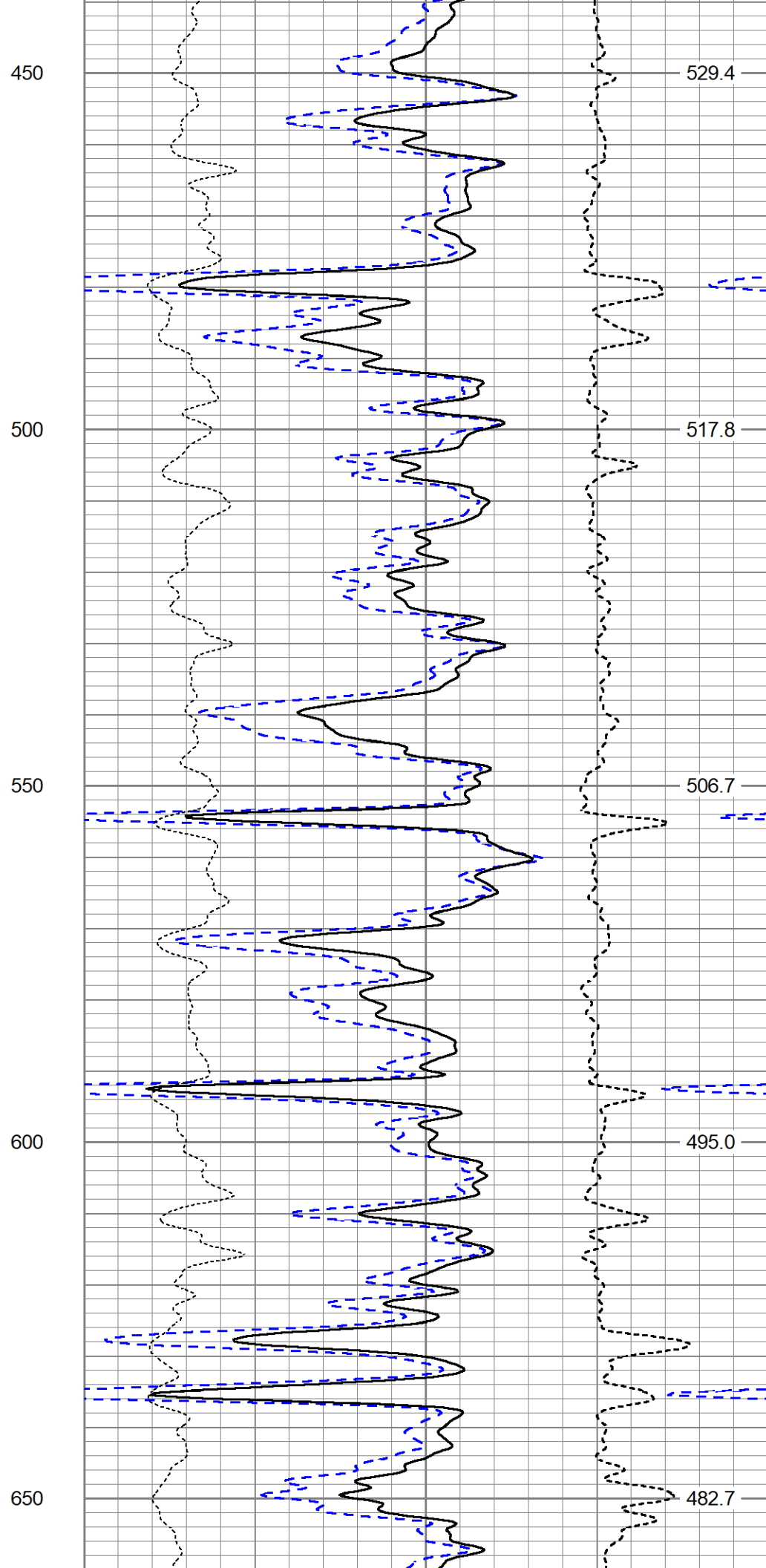
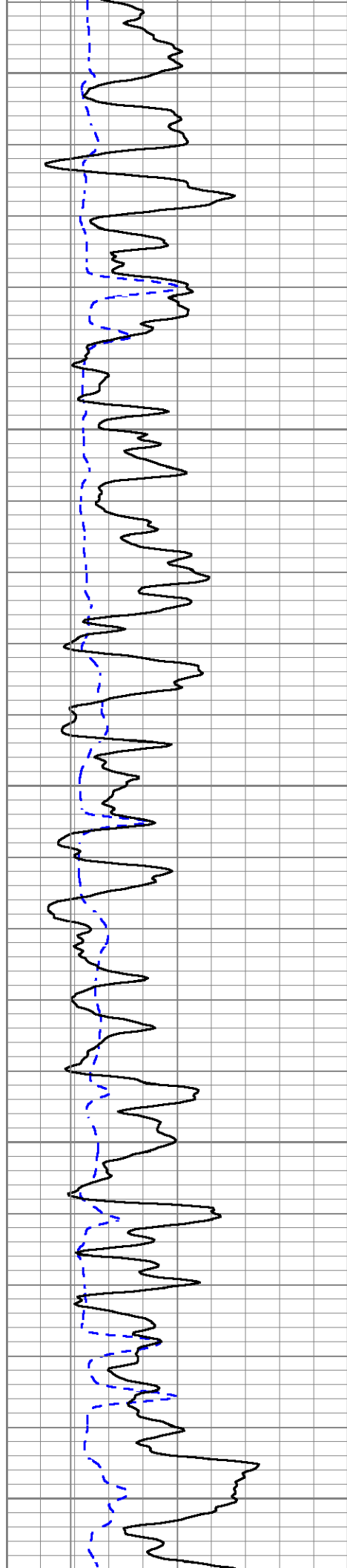
5" LITHO DENSITY LOG

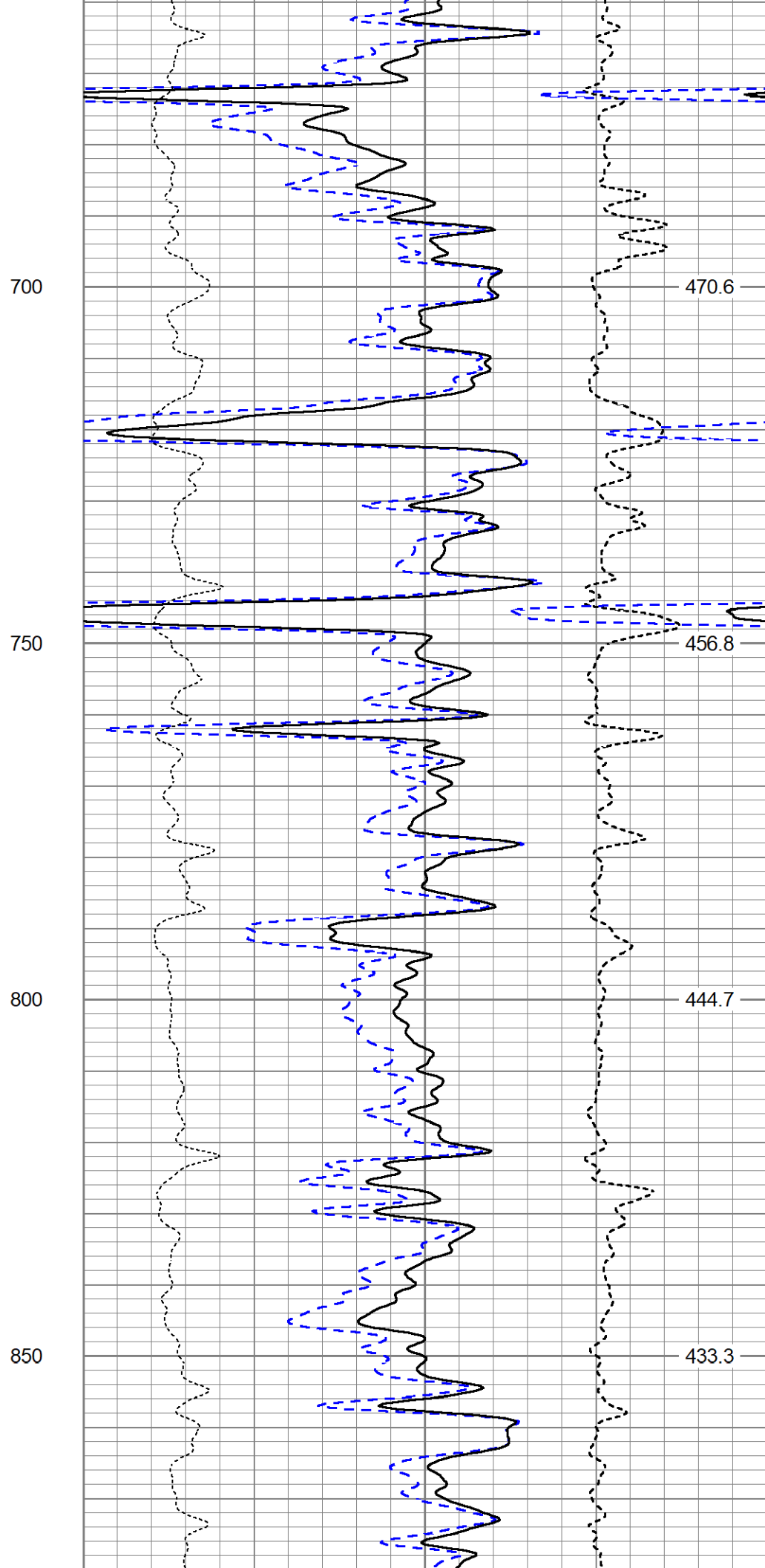
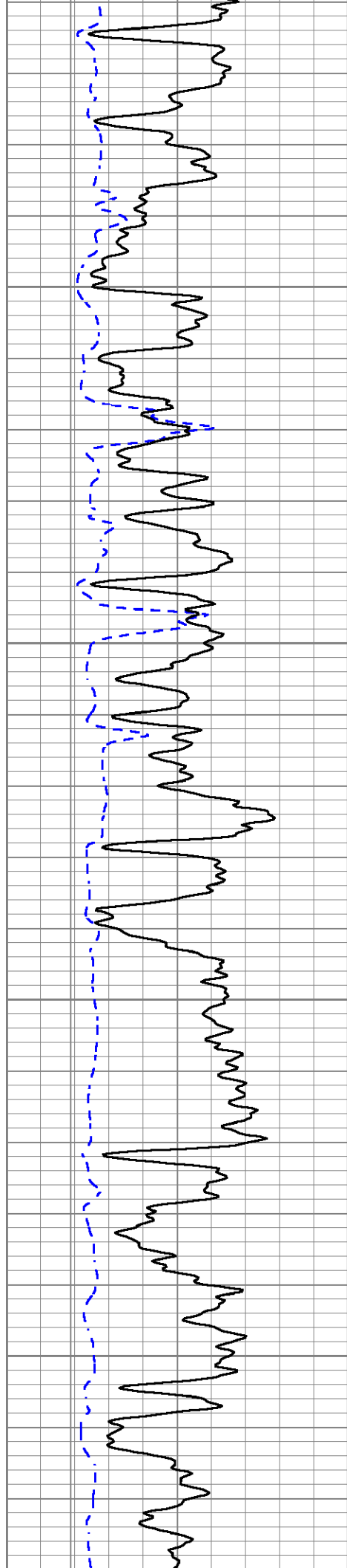
Database File ow2-9178 c g drilling.db
 Dataset Pathname pass4.4
 Presentation Format stcdl-6-16_5
 Dataset Creation Sun Mar 12 08:52:07 2023
 Charted by Depth in Feet scaled 1:240

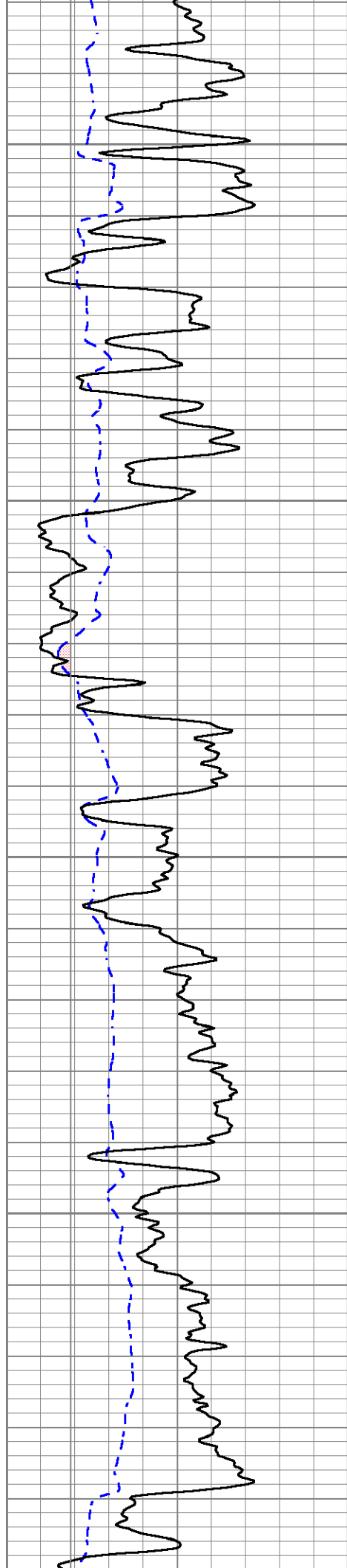
6	Density Caliper (in)	16	30	Density Porosity (pu)	-10
0	Gamma Ray (GAPI)	150	2	Bulk Density (g/cc)	3
6	Bit Size (in)	16	0	PE (barn)	10
			-0.5	Correction (g/cc)	0.5
				ABHV (ft3)	











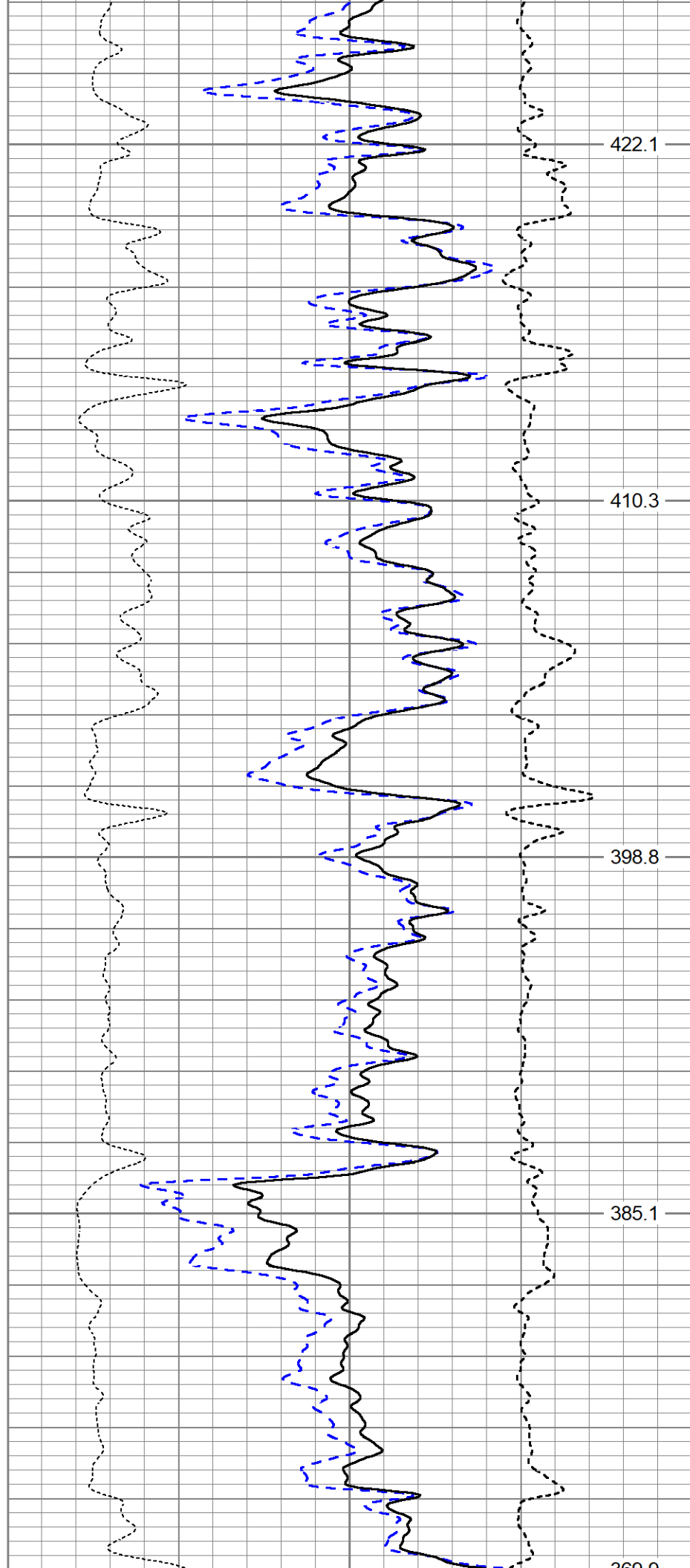
900

950

1000

1050

1100



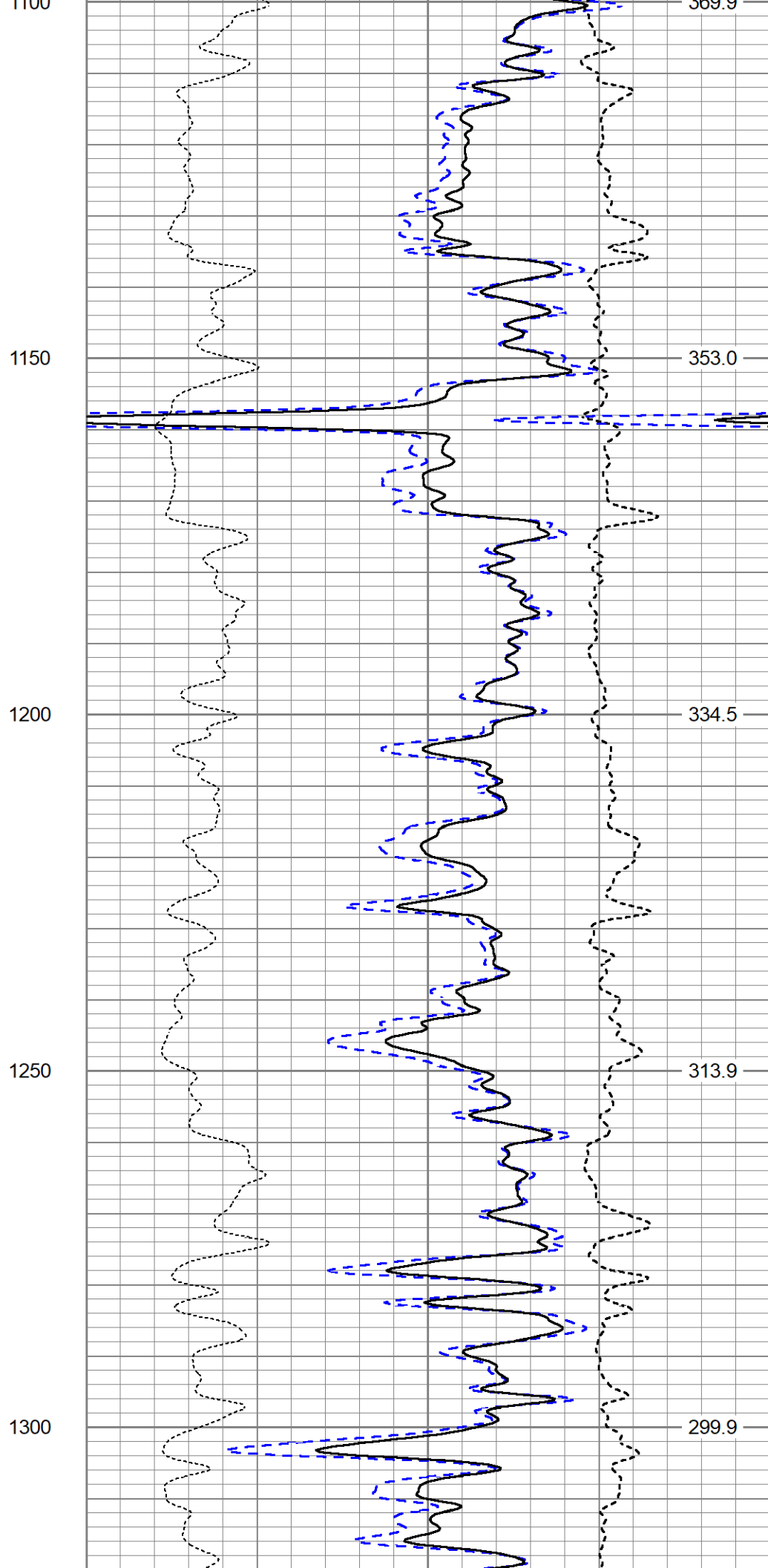
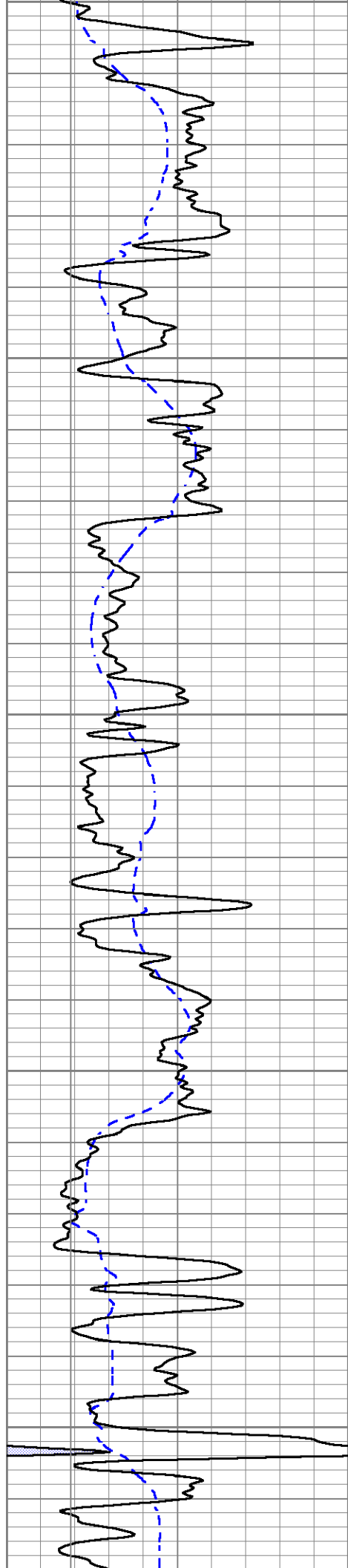
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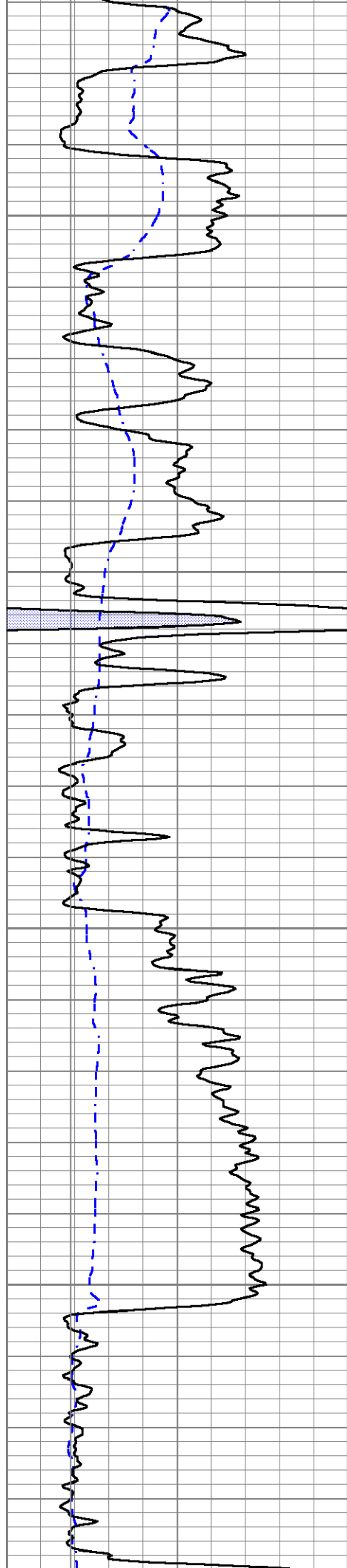
410.3

398.8

385.1

369.9



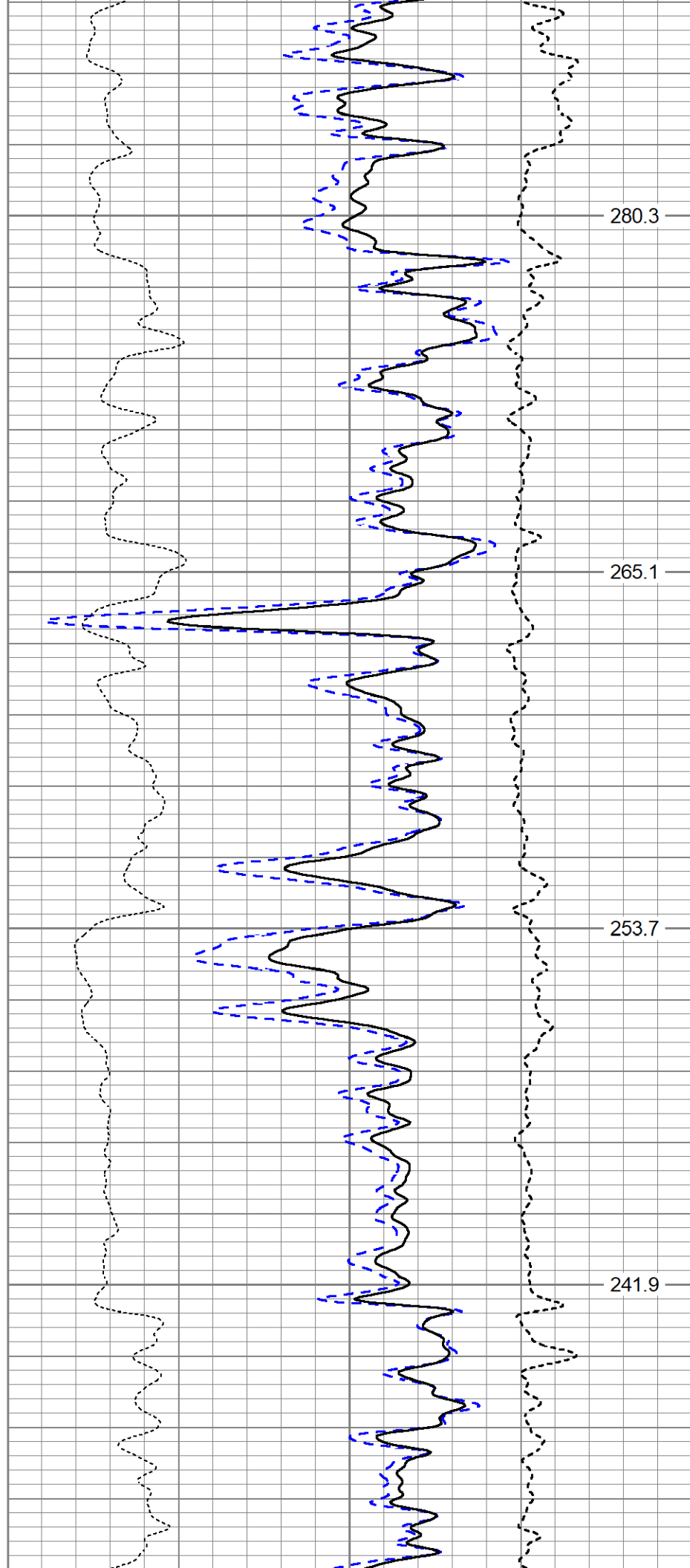


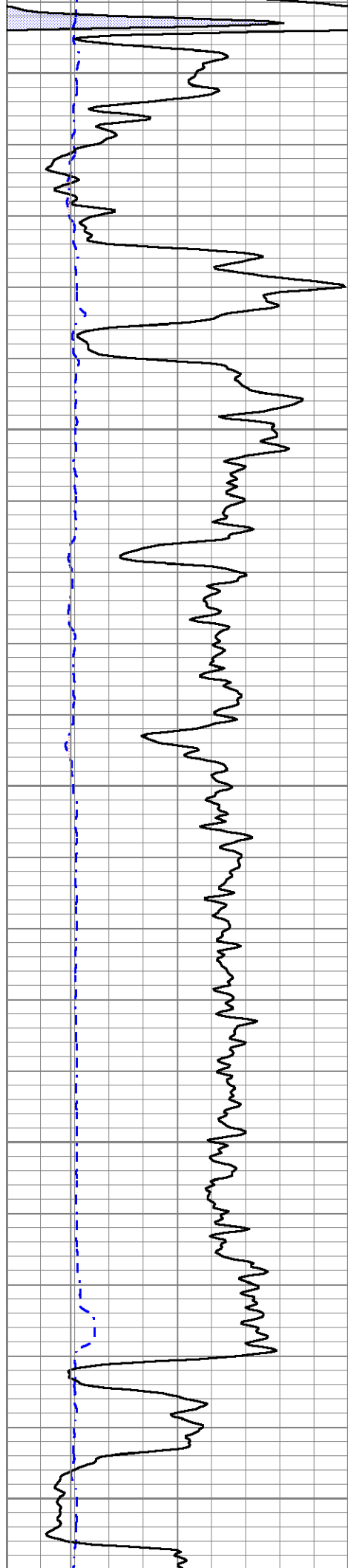
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1400

1450

1500





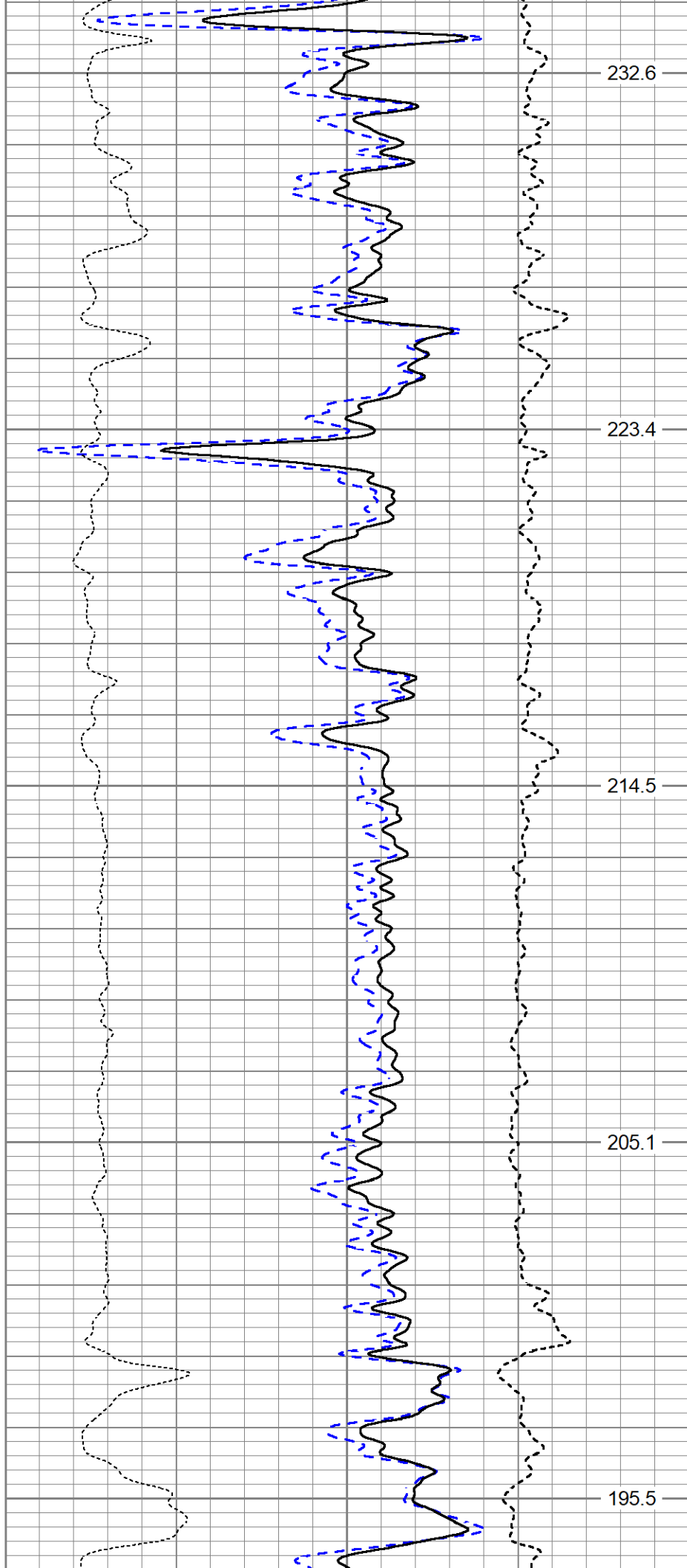
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1600

1650

1700

1750



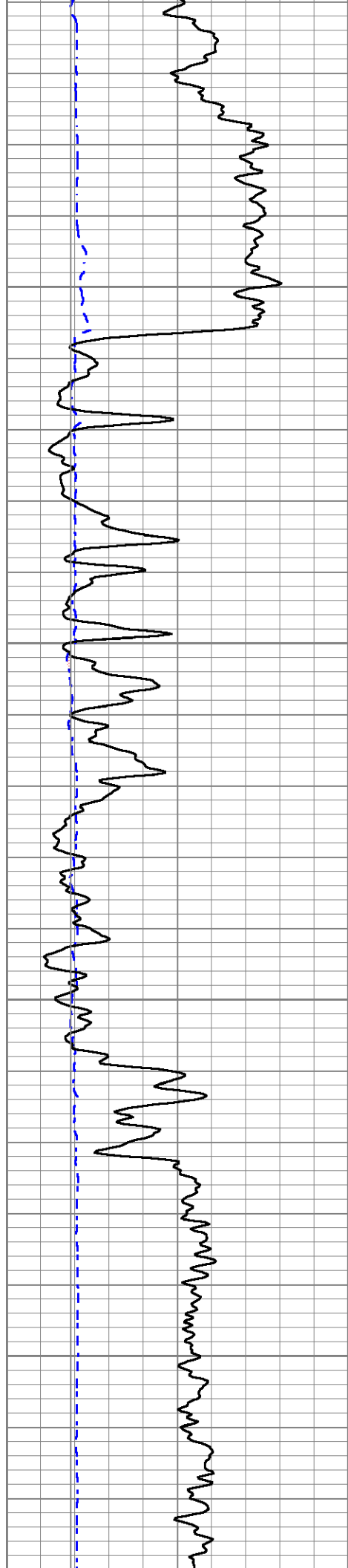
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223.4

214.5

205.1

195.5

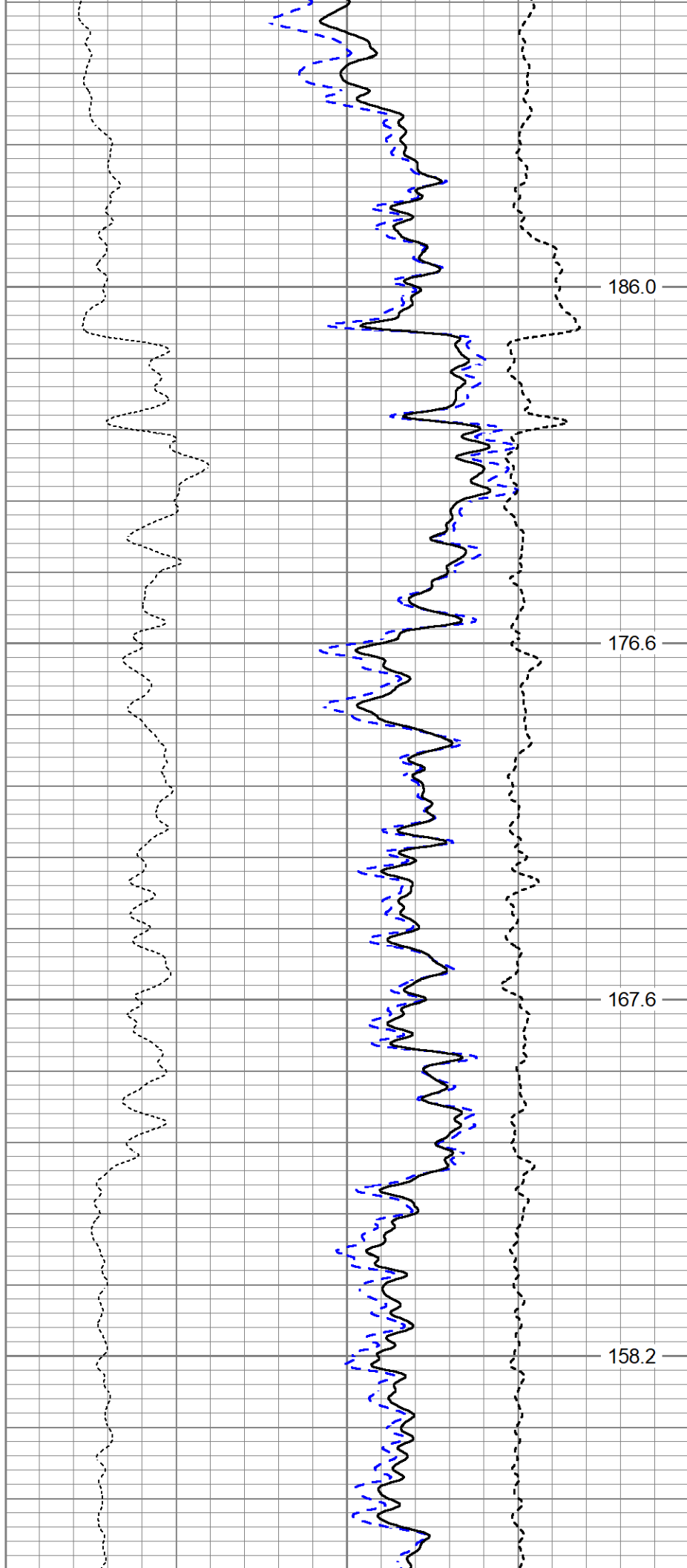


1800

1850

1900

1950

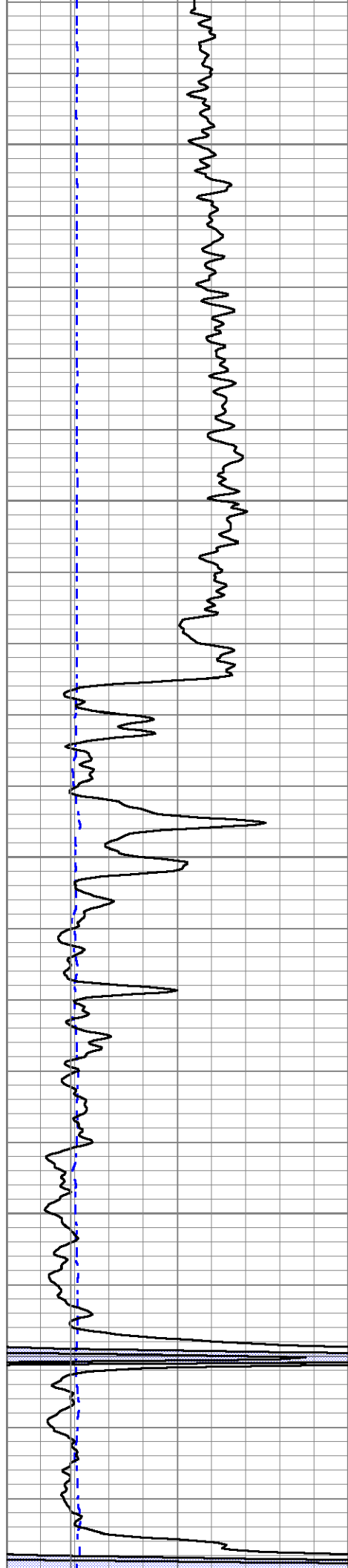


186.0

176.6

167.6

158.2



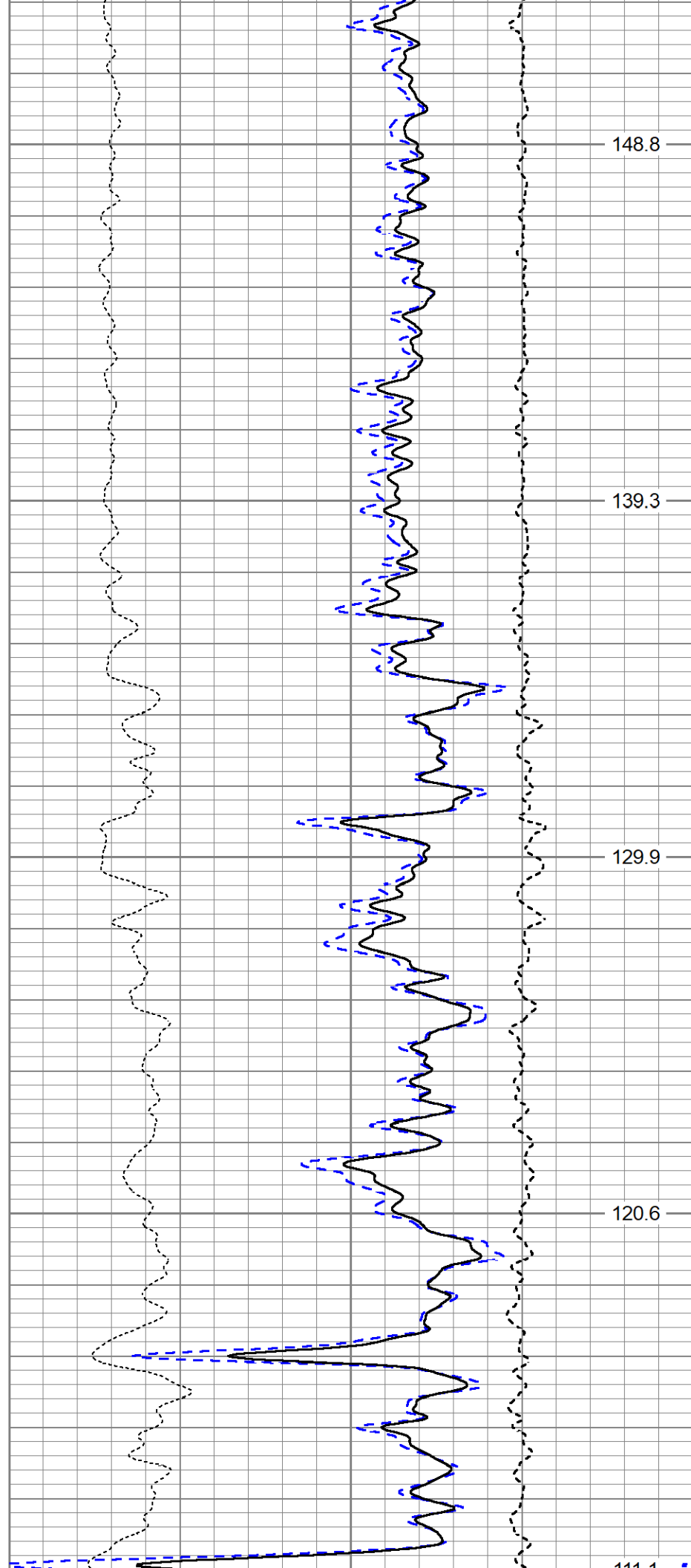
2000

2050

2100

2150

2200



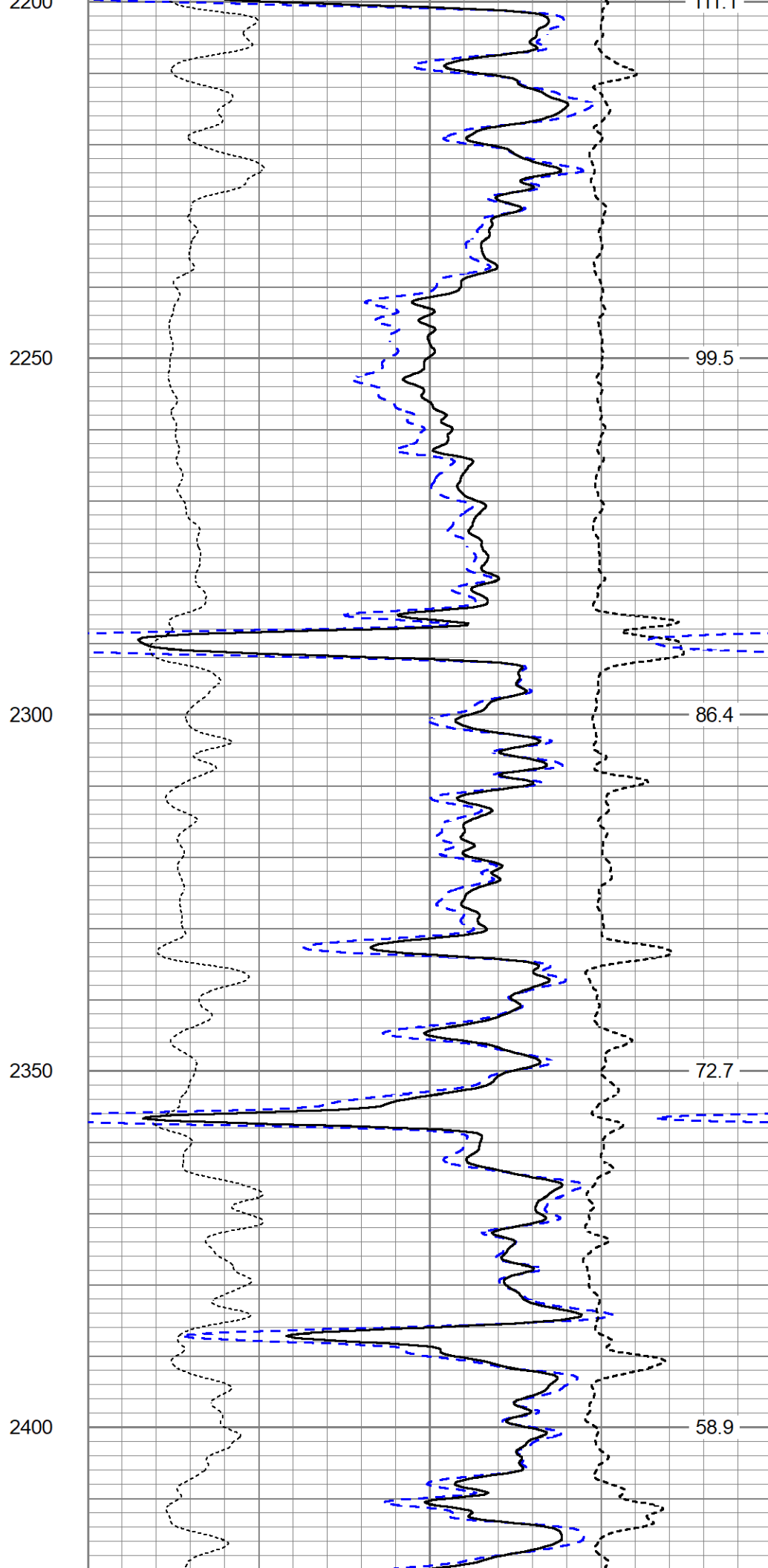
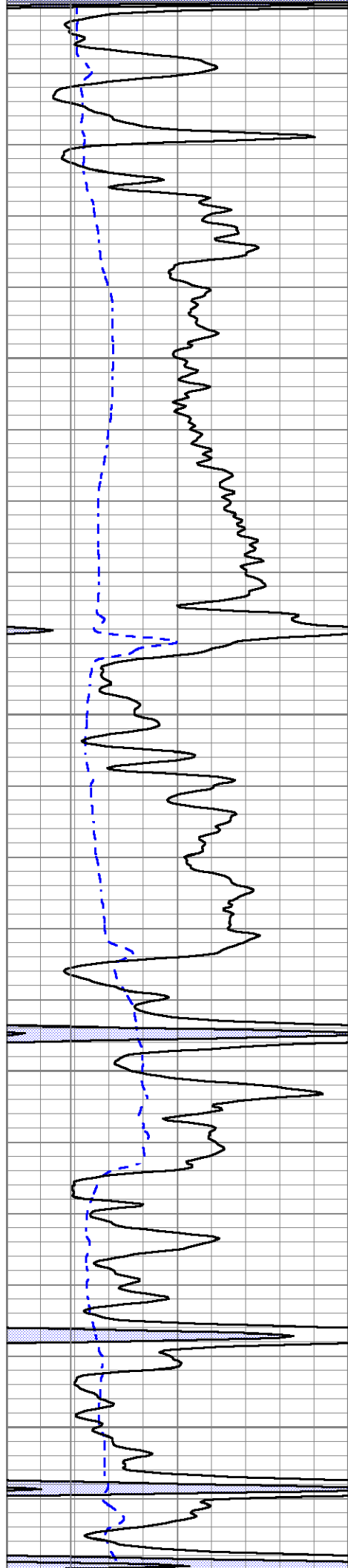
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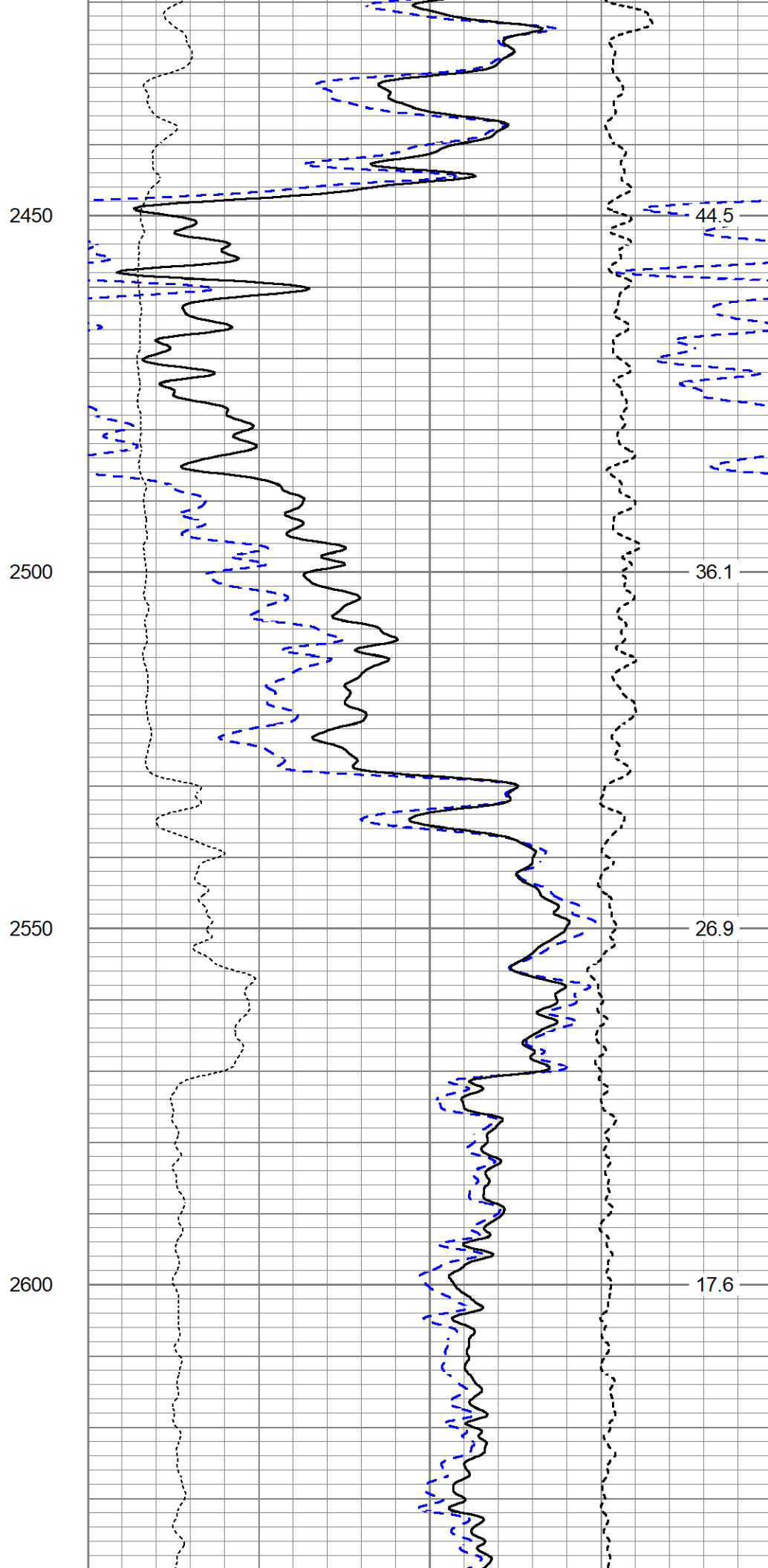
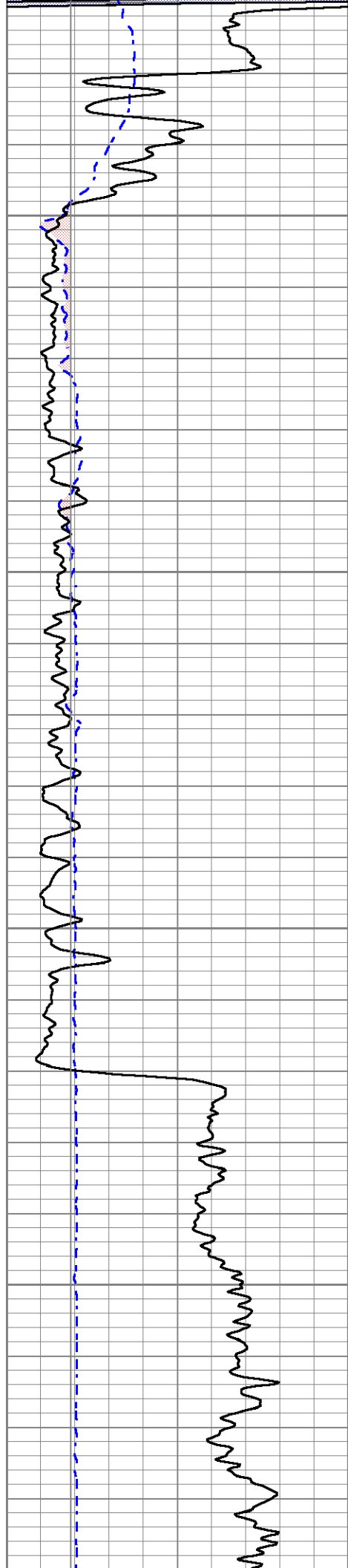
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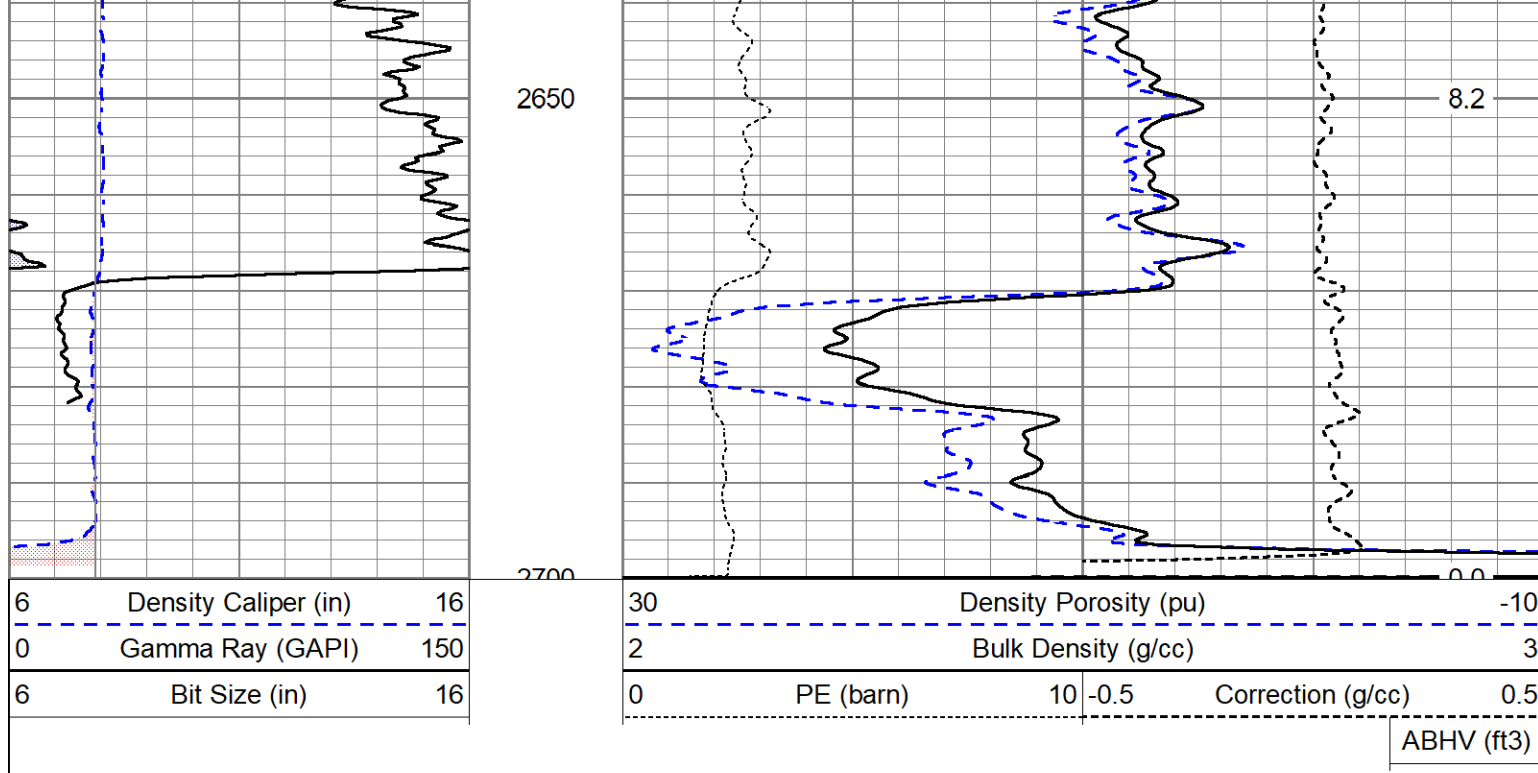
129.9

120.6

111.1







Calibration Report		
Database File	ow2-9178 c g drilling.db	
Dataset Pathname	pass4.5	
Dataset Creation	Sun Mar 12 08:52:16 2023	

Admyr Lithodensity Calibration Report

Serial-Model:	1D_GH-B
Source:	OW2 D-19
Master Calibration Performed:	Thu Feb 23 09:56:22 2023

Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	6158.57	5420.43	cps
Aluminium	2.600	g/cc	1825.15	3867.04	cps
Aluminium+Sleeve	2.575	g/cc	1726.48	3562.39	cps
Spine Angle = 74.48			Density/Spine Ratio = 0.705		
	PE		NLITH	NHARD	
Magnesium	1.970	barn	4904.15	4748.60	cps
Aluminium	2.530	barn	1381.23	1596.41	cps
Aluminium+Sleeve	3.832	barn	1129.27	1545.38	cps
M = 0.811			B = -0.322	R = 0.993	
	Size		Reading		
Small Ring	5.75	in	4.45	V	
Large Ring	11.25	in	6.36	V	

Neutron Calibration Report

Serial Number:	ADMYR1
Tool Model:	ADDON
Performed:	Sat Feb 11 13:29:01 2023

Calibrator Values:	0	30	
Calibrator Readings:	780	280	cps
Sensitivity:	-0.06	/cps	

Inclinometer Calibration Report

Performed:	Thu Oct 8 13:57:38 2020				
	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	Refurb01	
Tool Model:	OSAGE_01	
Performed:	Mon Jan 18 09:02:16 2021	
Calibrator Value:	150.0	GAPI
Background Reading:	125.0	cps
Calibrator Reading:	875.0	cps
Sensitivity:	0.2000	GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
ACCY	17.83		ADMYR_TELEMETRY-OSAGE_01 (Refurb01) Admyr Telemetry With Gr, Deviation, ADC board and Pulses Board in it.	3.69	3.25	53.00
ACCX	17.83					
GR	16.65					
FRAMES	15.33					
SSTAT	15.33					
PSTAT	15.33		NEU-ADDON (ADMYR1) Inline Neutron	5.65	3.38	84.00
ASTAT	15.33					
NEU	11.66					
DCAL	2.79					
LS_HV	2.63					
LS8	2.63					
LS7	2.63					
LS6	2.63					
LS5	2.63					
NHARD	2.63					
LSD	2.63					
LS2	2.63					
NLITH	2.63		ADT1LITH-B (1D_GH)	9.69	4.25	238.00
LSTAT	2.17					
LSV	2.17					
SS_HV	2.08					
SS8	2.08					
SS7	2.08					
SS6	2.08					
SS5	2.08					
SS4	2.08					

SS4	2.08				
SSD	2.08				
SS2	2.08	—	Dataset:	ow2-9178 c g drilling.db: field/well/run1/pass4.5	
SS1	2.08	—	Total length:	19.02 ft	
SSV	1.96	—	Total weight:	375.00 lb	
TD Man	0.00		O.D.:	4.25 in	