



Weatherford

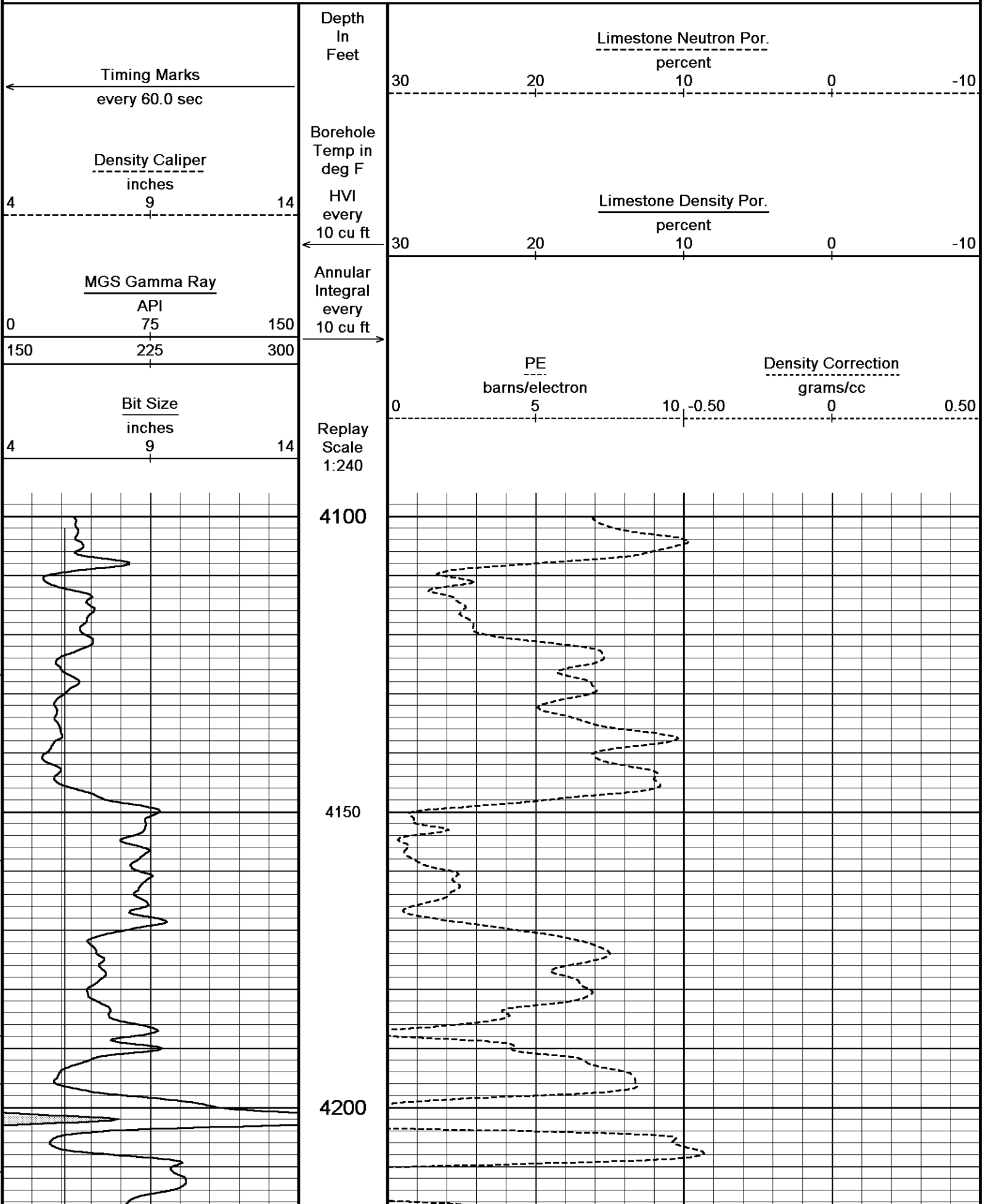
**CML MESSENGER SHUTTLE
COMPACT PHOTO DENSITY
DUAL SPACED NEUTRON**

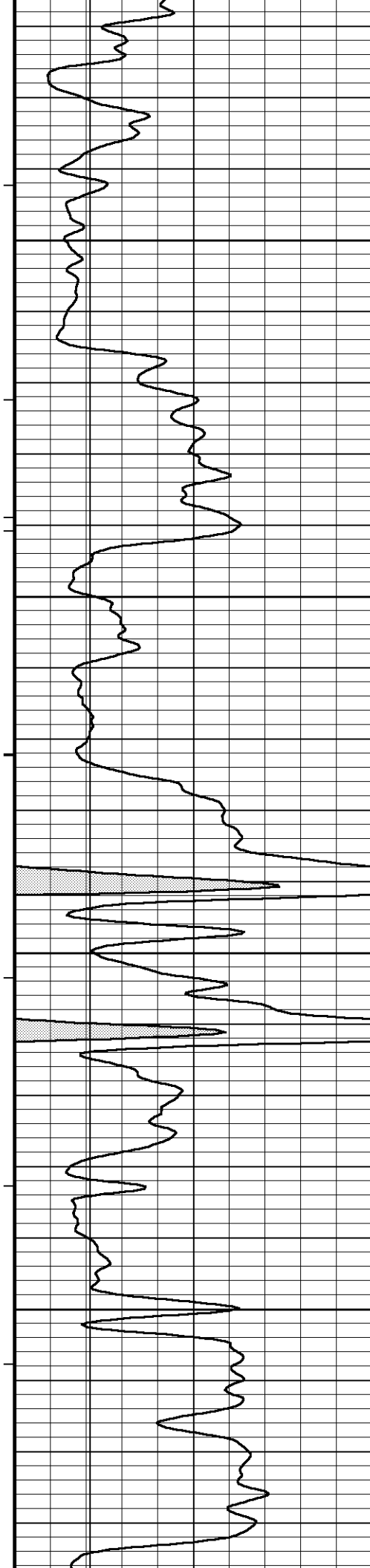
COMPANY				Sandridge Energy			
WELL				Elsey 3025 1-1H			
FIELD				Sabine Pass			
PROVINCE/COUNTY				Clark			
COUNTRY/STATE				U.S.A. / Kansas			
LOCATION				200' FNL & 660' FEL			
SEC	TWP	RGE	Other Services				
1	30s	25w	CMI				
API Number		15-025-21548		MAI			
Permit Number							
Permanent Datum G.L., Elevation 2567 feet					Elevations: feet		
Log Measured From KB					KB 2585.00		
Drilling Measured From K.B. @ 18 feet					DF 2585.00		
					GL 2567.00		
Date	23-NOV-2012						
Run Number	One						
Depth Driller	9350.00				feet		
Depth Logger	9350.00				feet		
First Reading	9264.00				feet		
Last Reading	4000.00				feet		
Casing Driller	5690.00				feet		
Casing Logger	5690.00				feet		
Bit Size	6.125				inches		
Hole Fluid Type	WBM						
Density / Viscosity	8.90 lb/USg		34.00 CP				
PH / Fluid Loss	10.00		7.80 ml/30Min				
Sample Source	Flowline						
Rm @ Measured Temp	1.31 @ 78.0				ohm-m		
Rmf @ Measured Temp	1.05 @ 78.0				ohm-m		
Rmc @ Measured Temp	1.57 @ 78.0				ohm-m		
Source Rmf / Rmc	Calc			Calc			
Rm @ BHT	0.81 @125.0		ohm-m				
Time Since Circulation	1 hour						
Max Recorded Temp	125.00		deg F				
Equipment Name	Compact						
Equipment / Base	18077		OKC				
Recorded By	Steven Tolley						
Witnessed By	Maggie Roden						
S.O. # / AFE #	3538589				DC12282		

BOREHOLE RECORD					Last Edited: 23-NOV-2012 15:42
Bit Size inches		Depth From feet		Depth To feet	
6.125		5690.00		9350.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
inter	7.000	0.00	5690.00	24.00	

REMARKS
ALL LOGS WERE SET TO DEPTH WITH MWD
DRILL PIPE DEPTH DURING DEPLOYMENT: 9229
LOGGING TOOL DEPTH AFTER DEPLOYMENT: 9331
4'5" PRODUCTION CASING USED TO CALCULATE AHV
OPERATORS: S. WORLEY _ R. CASPIAN
S.O: 3538589

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 interpretations, and we shall not, except in the case of gross or wilful 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 in our price schedule.



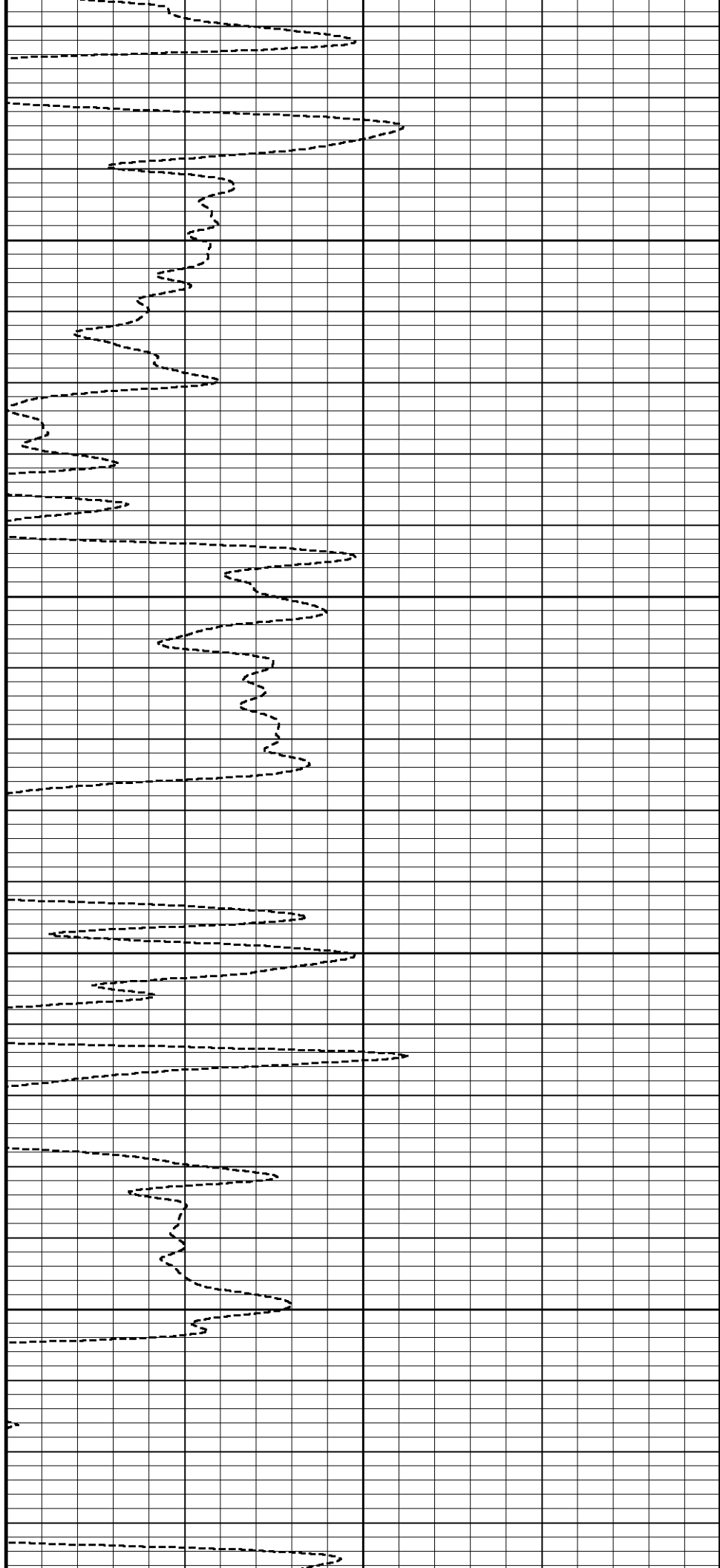


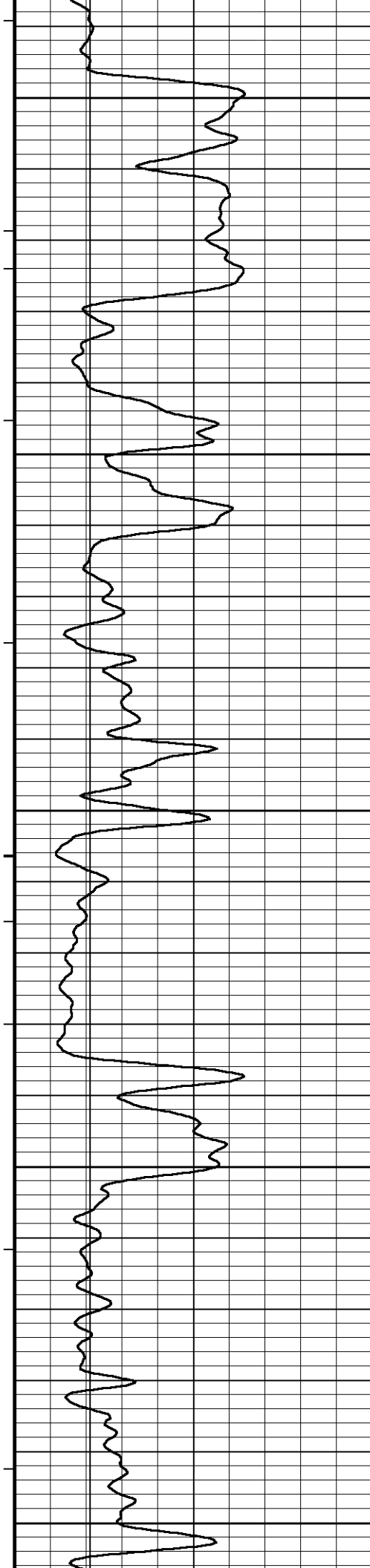
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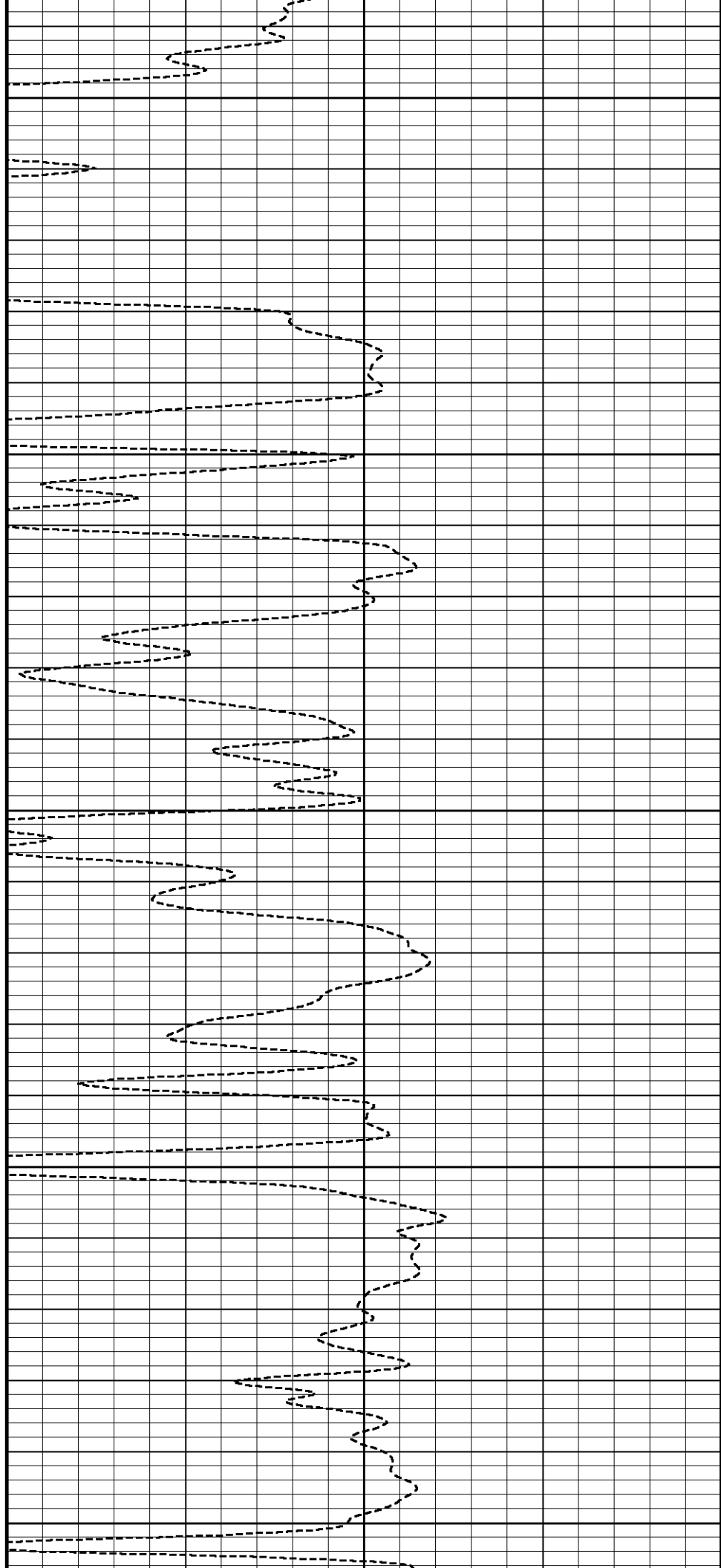
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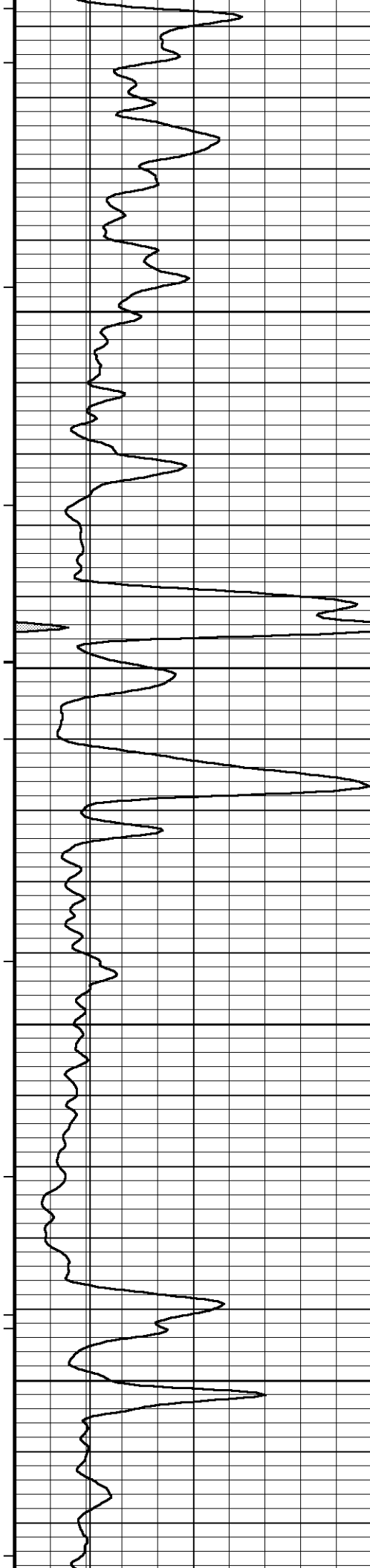
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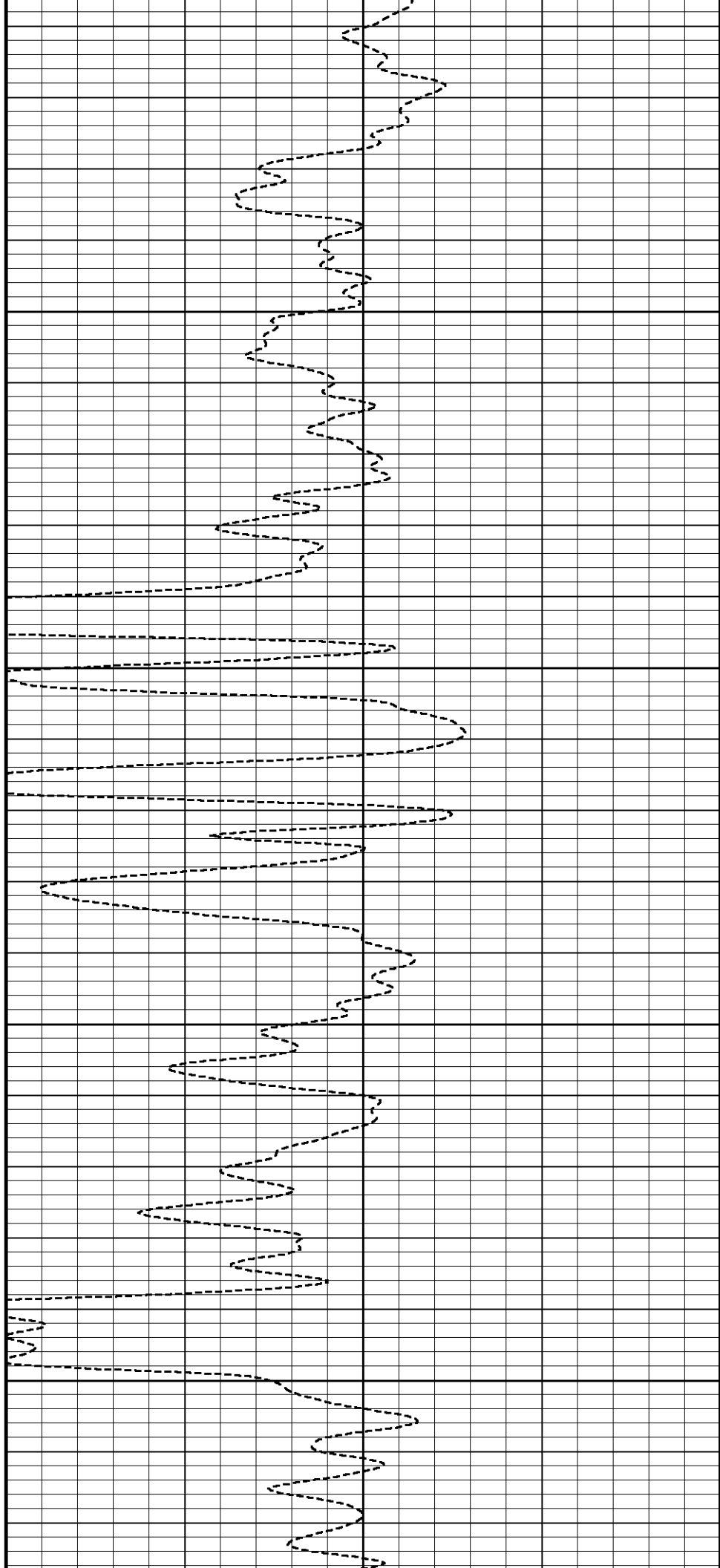


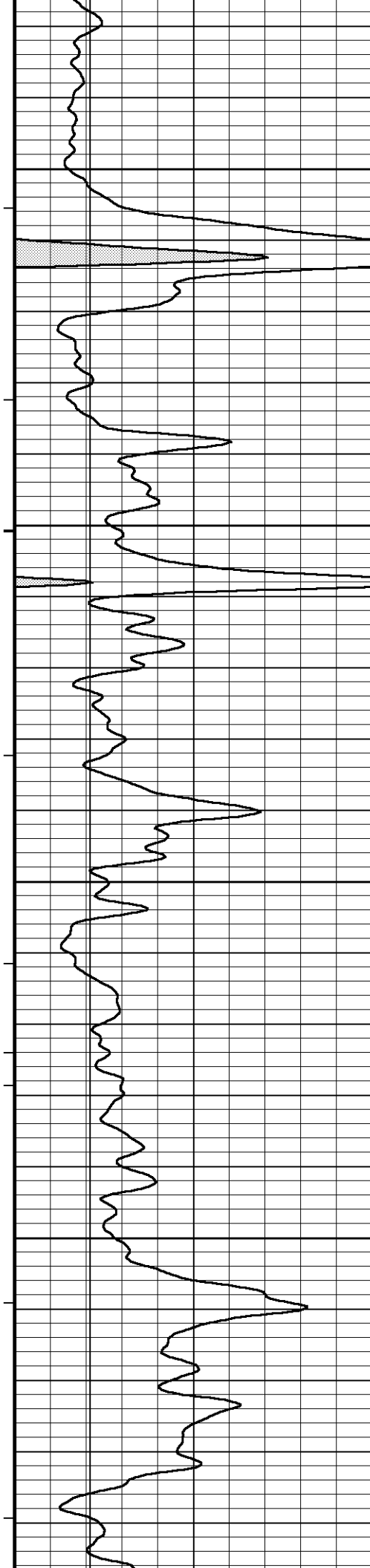
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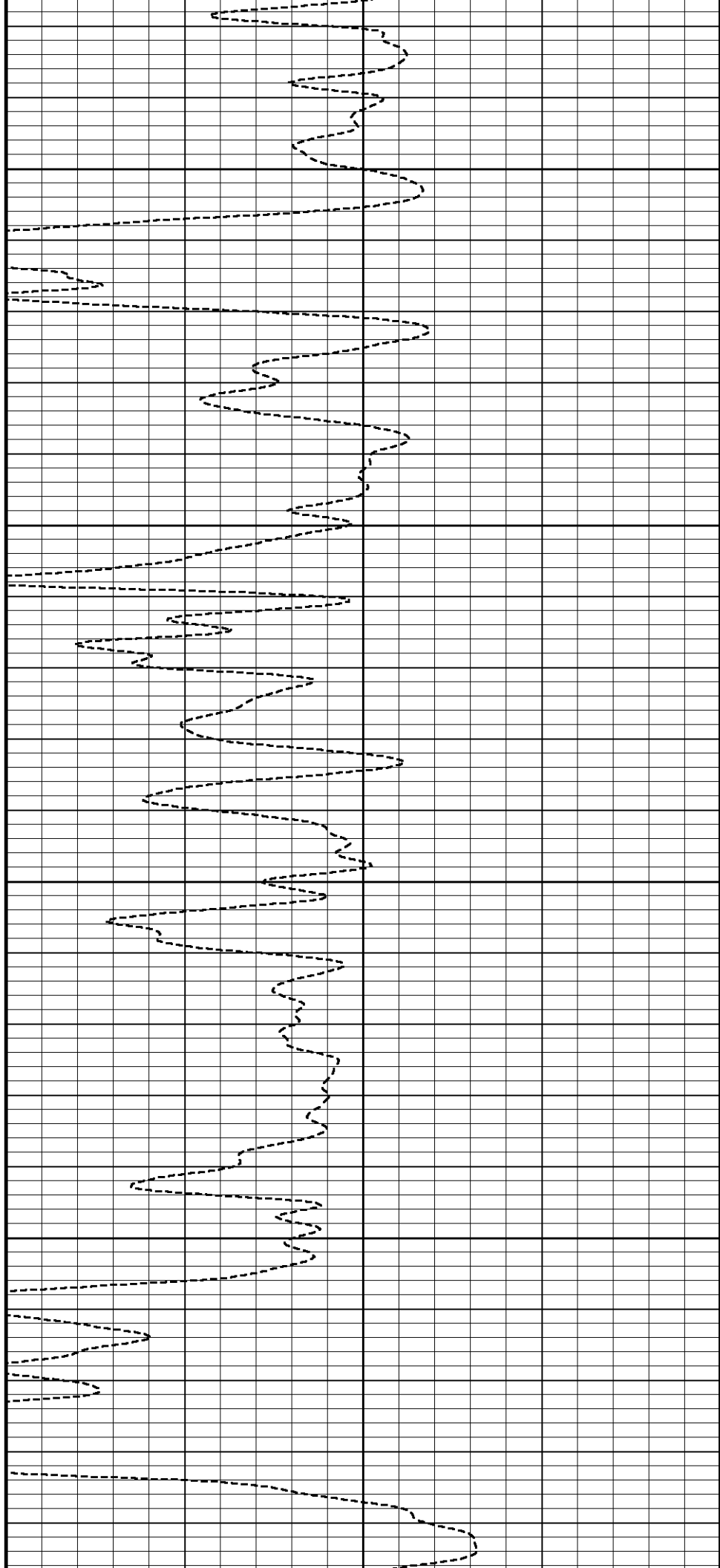


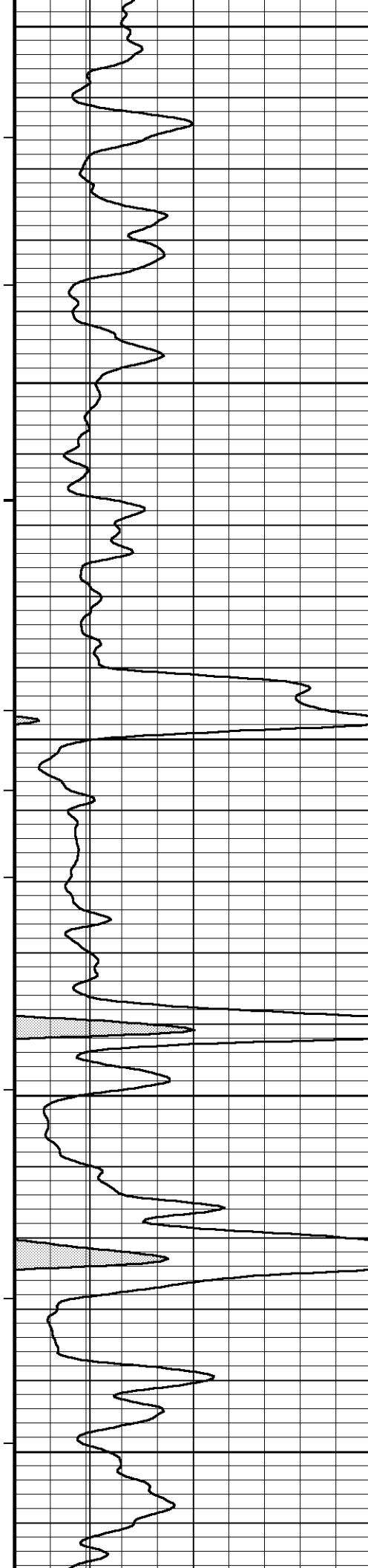
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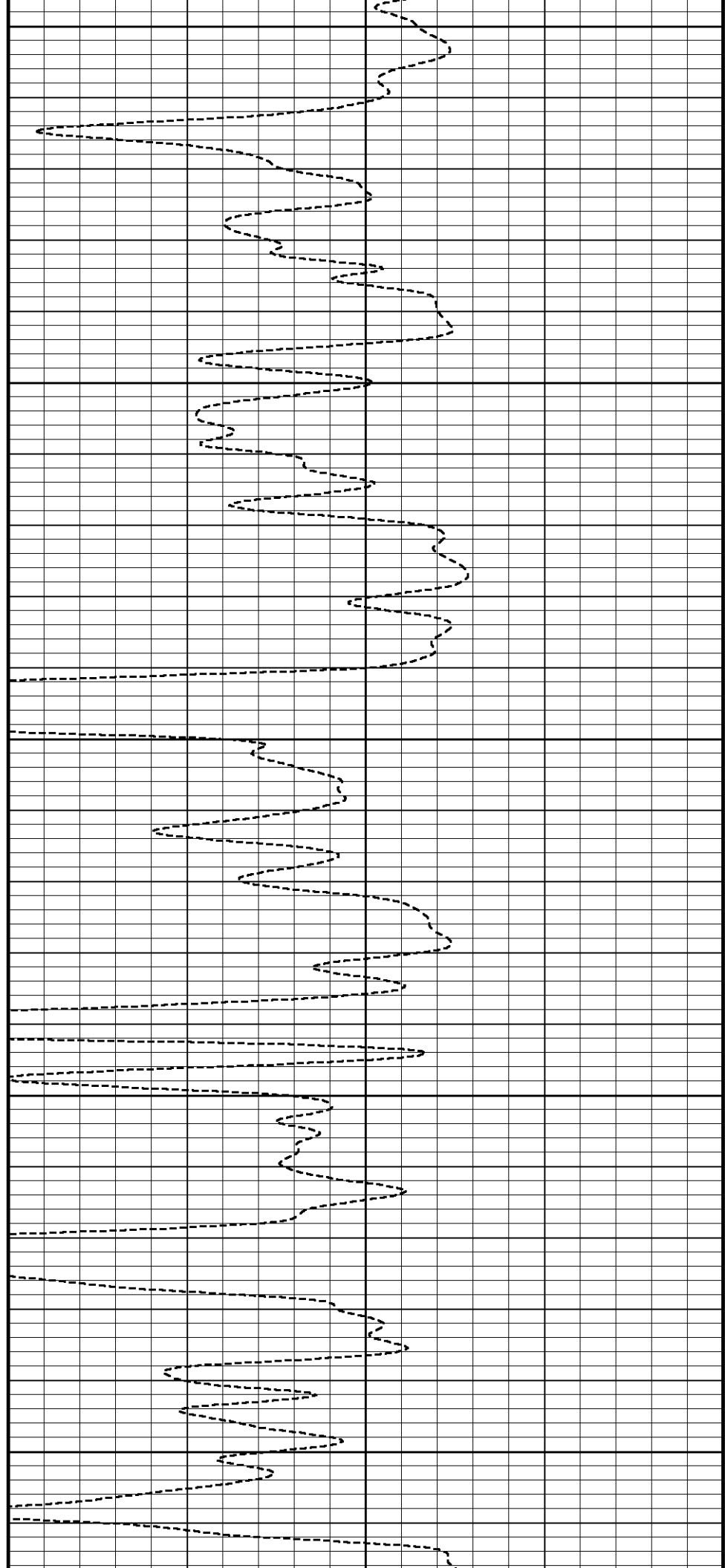
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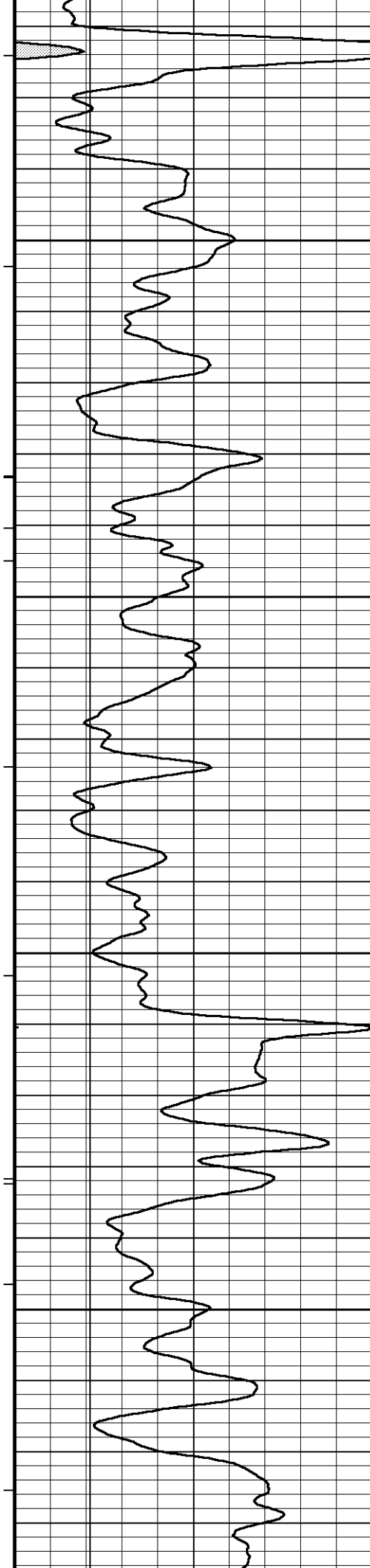
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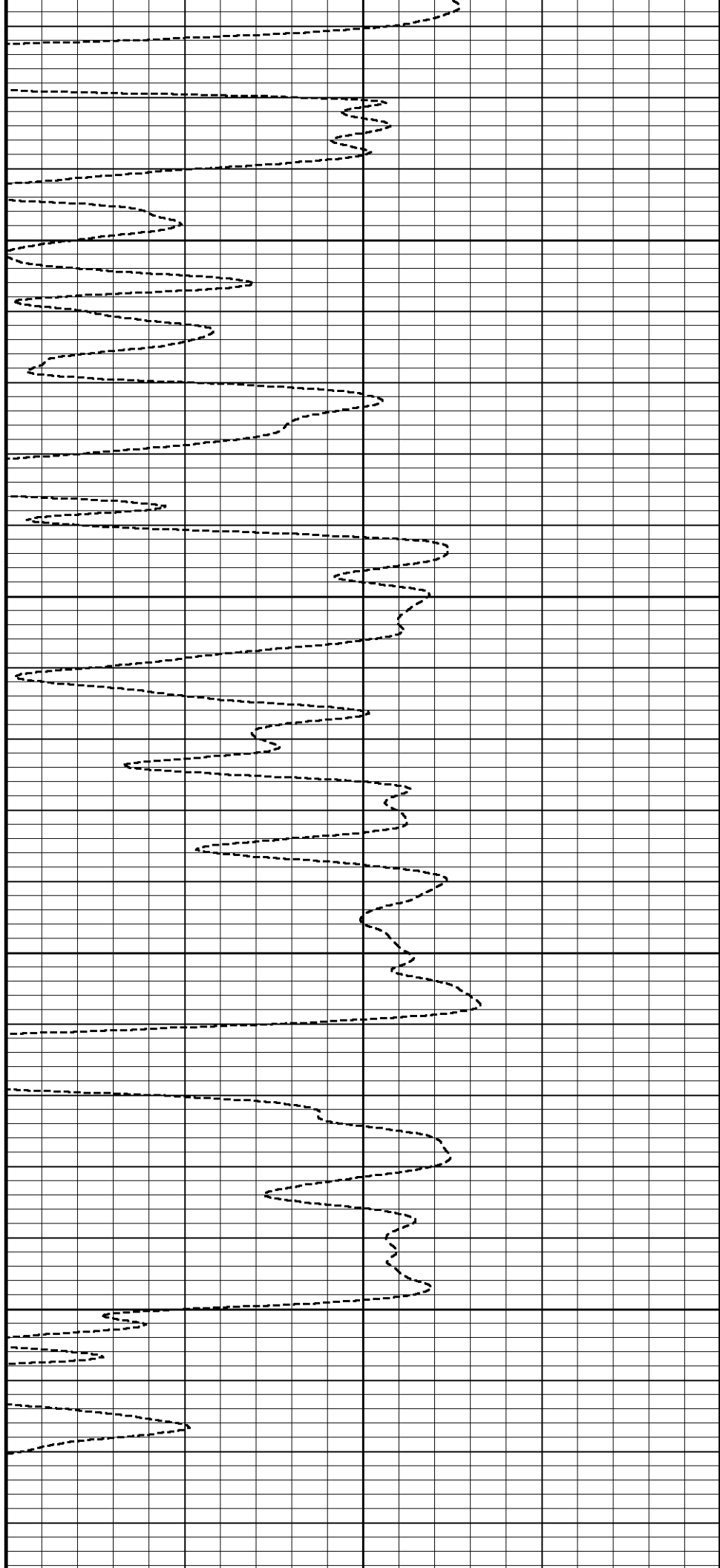


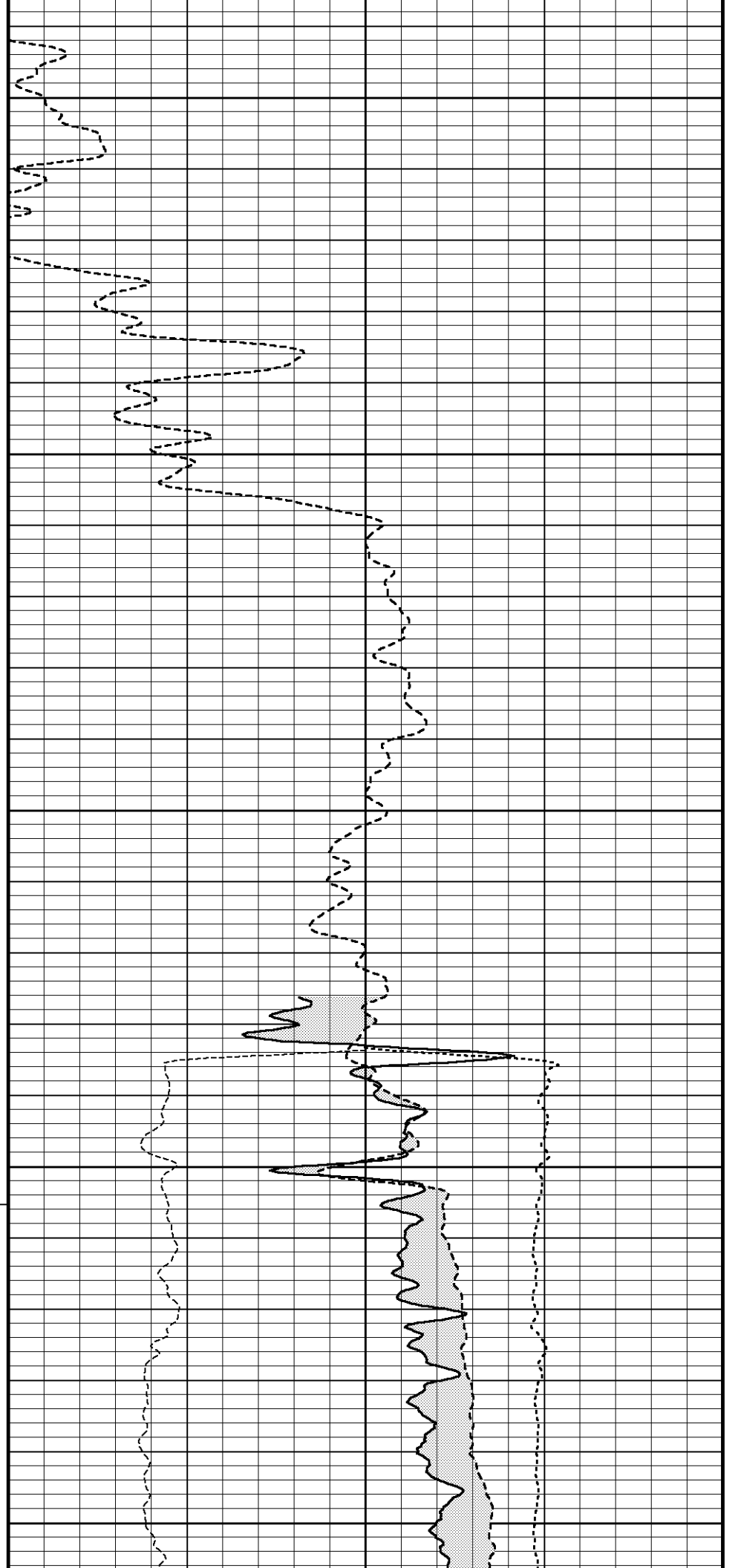
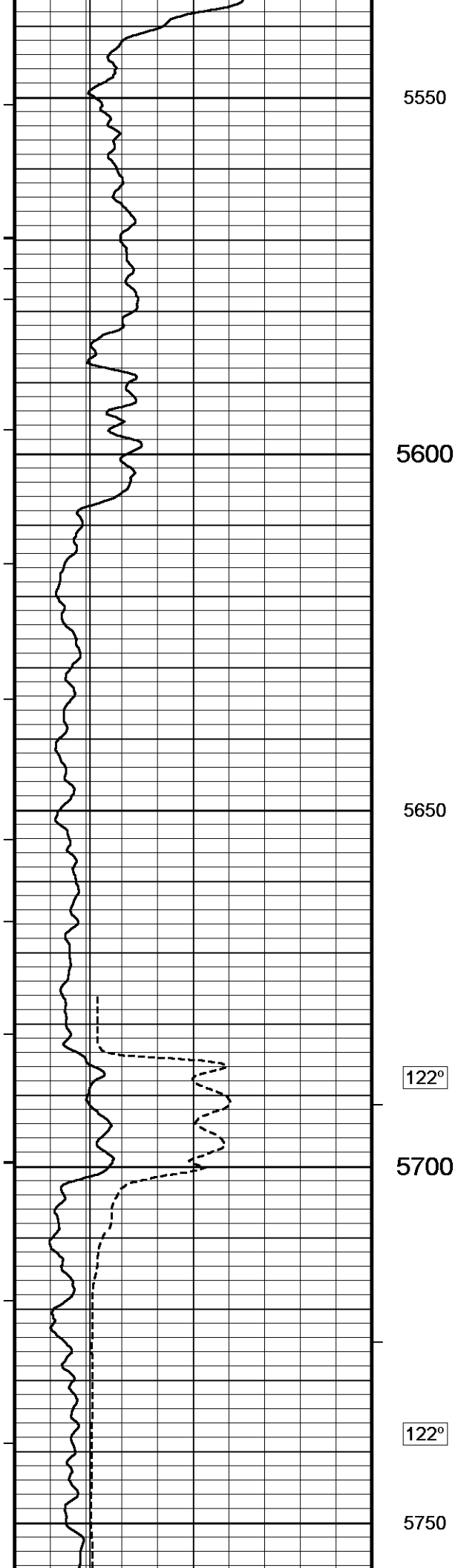
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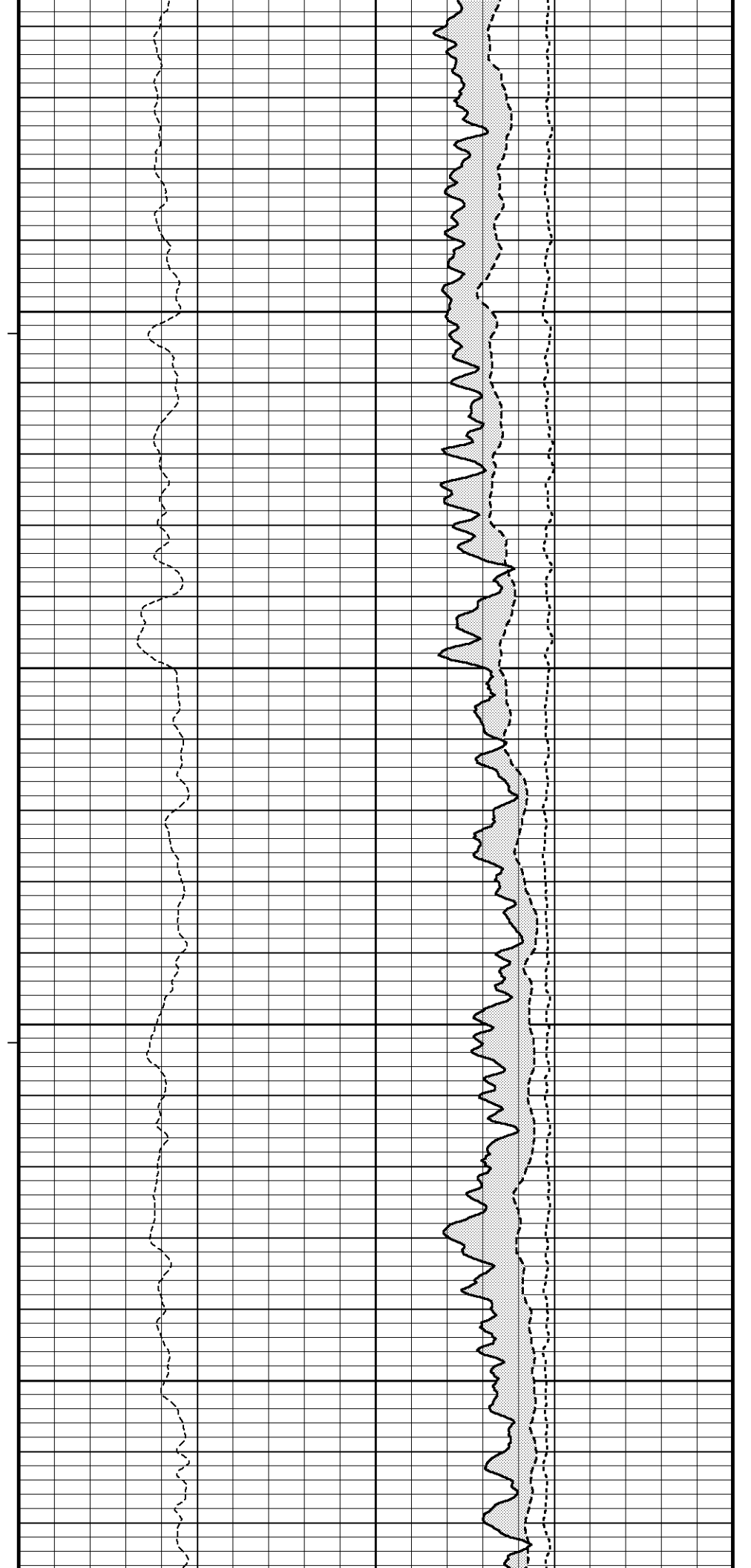
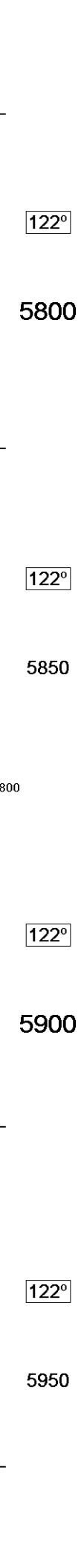
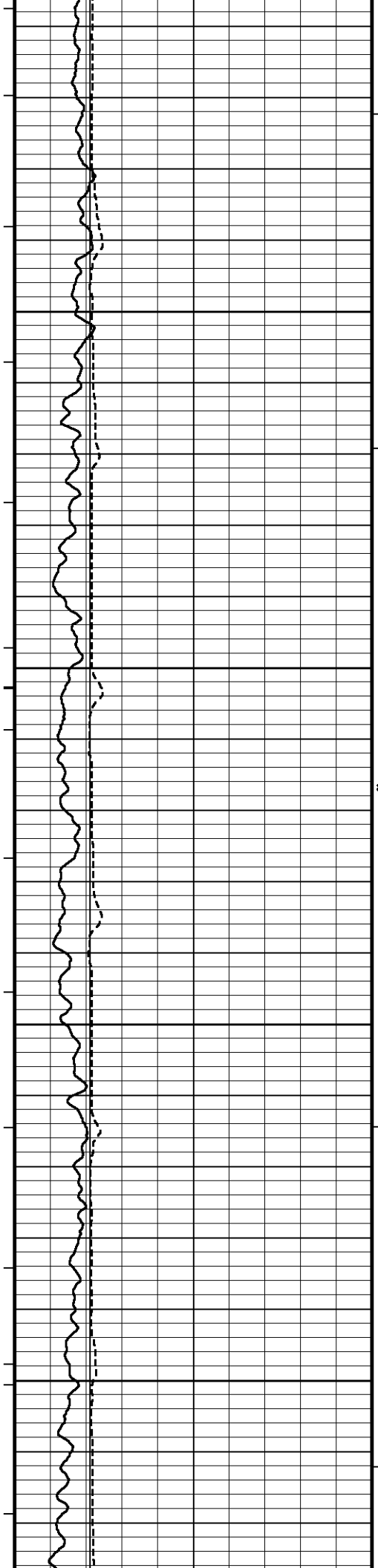
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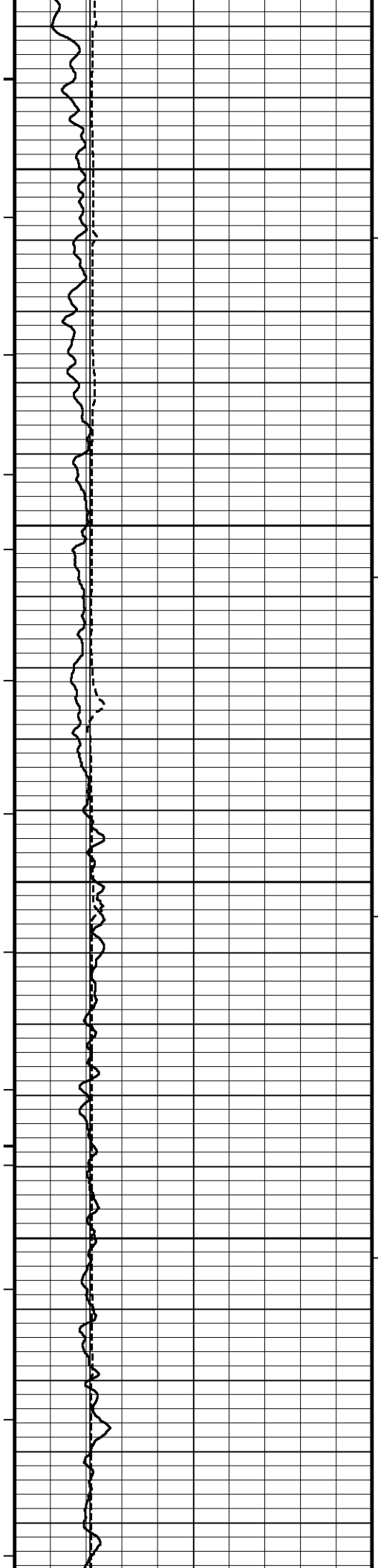
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122°

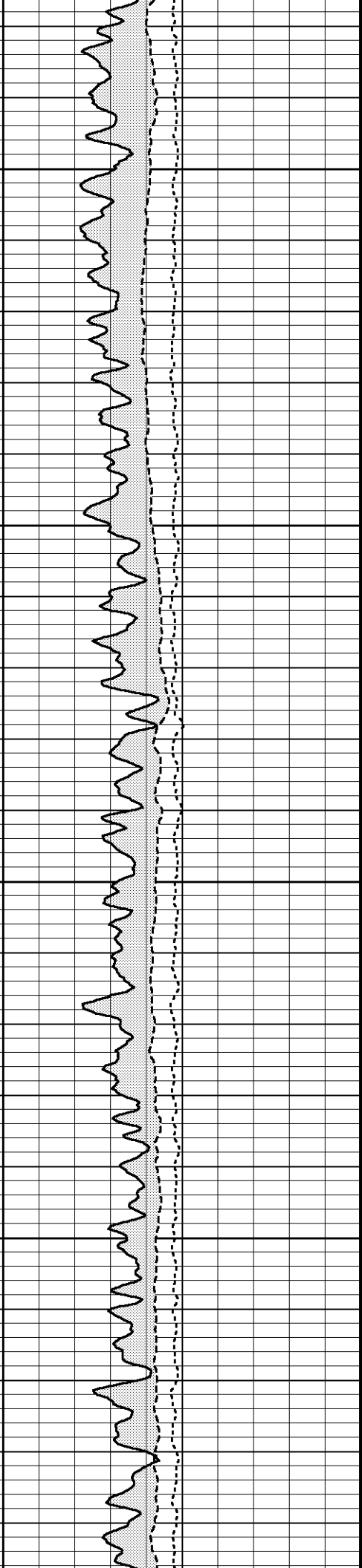
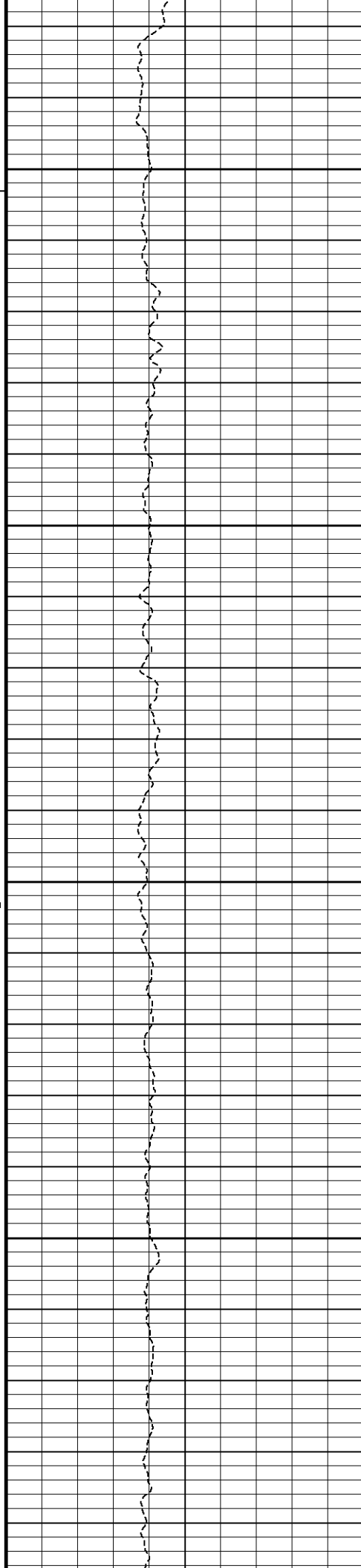
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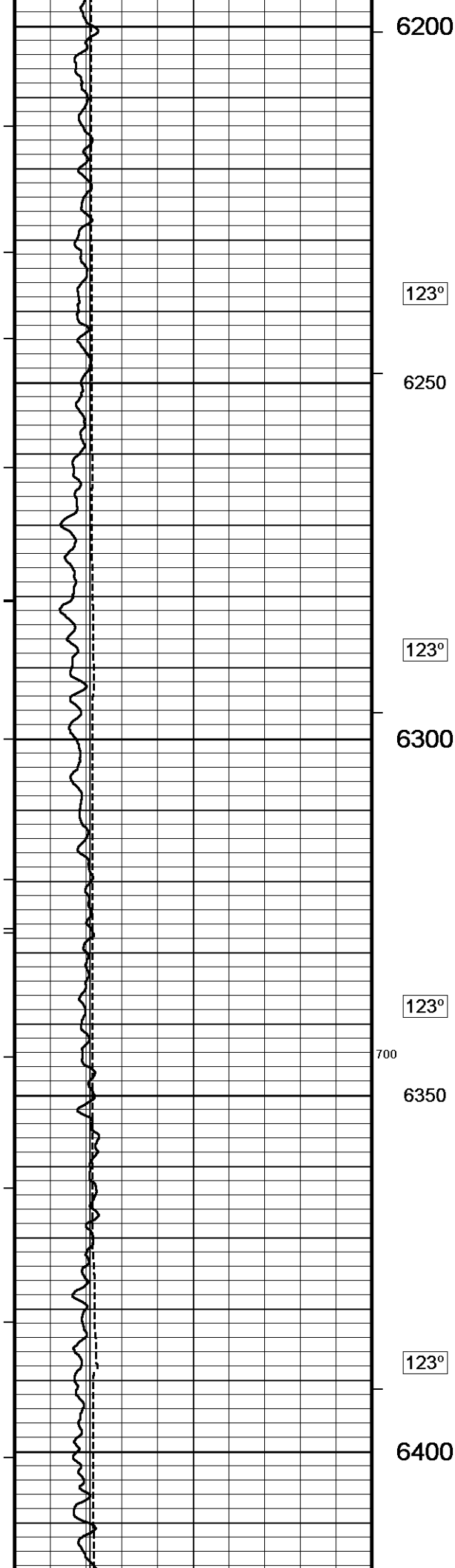
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6150

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6200

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6300

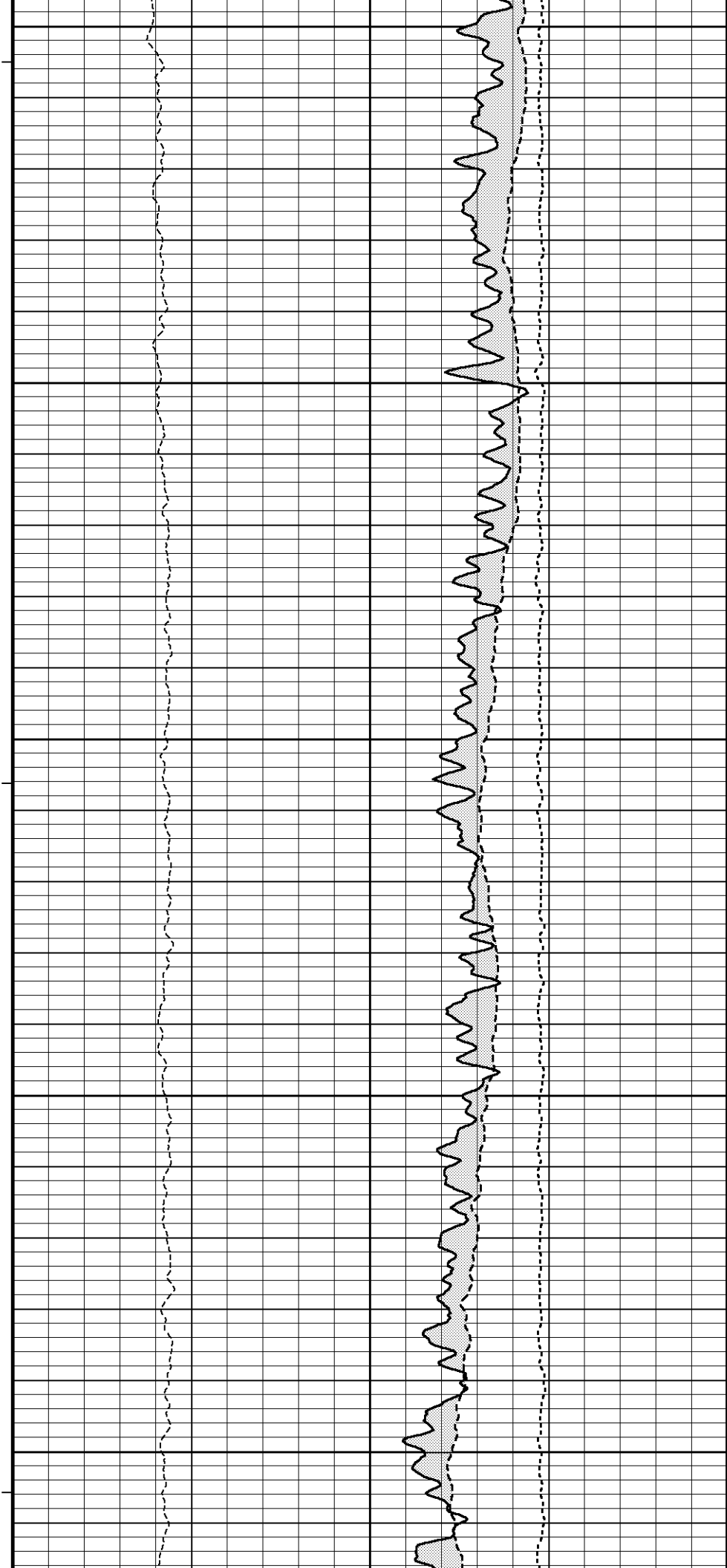
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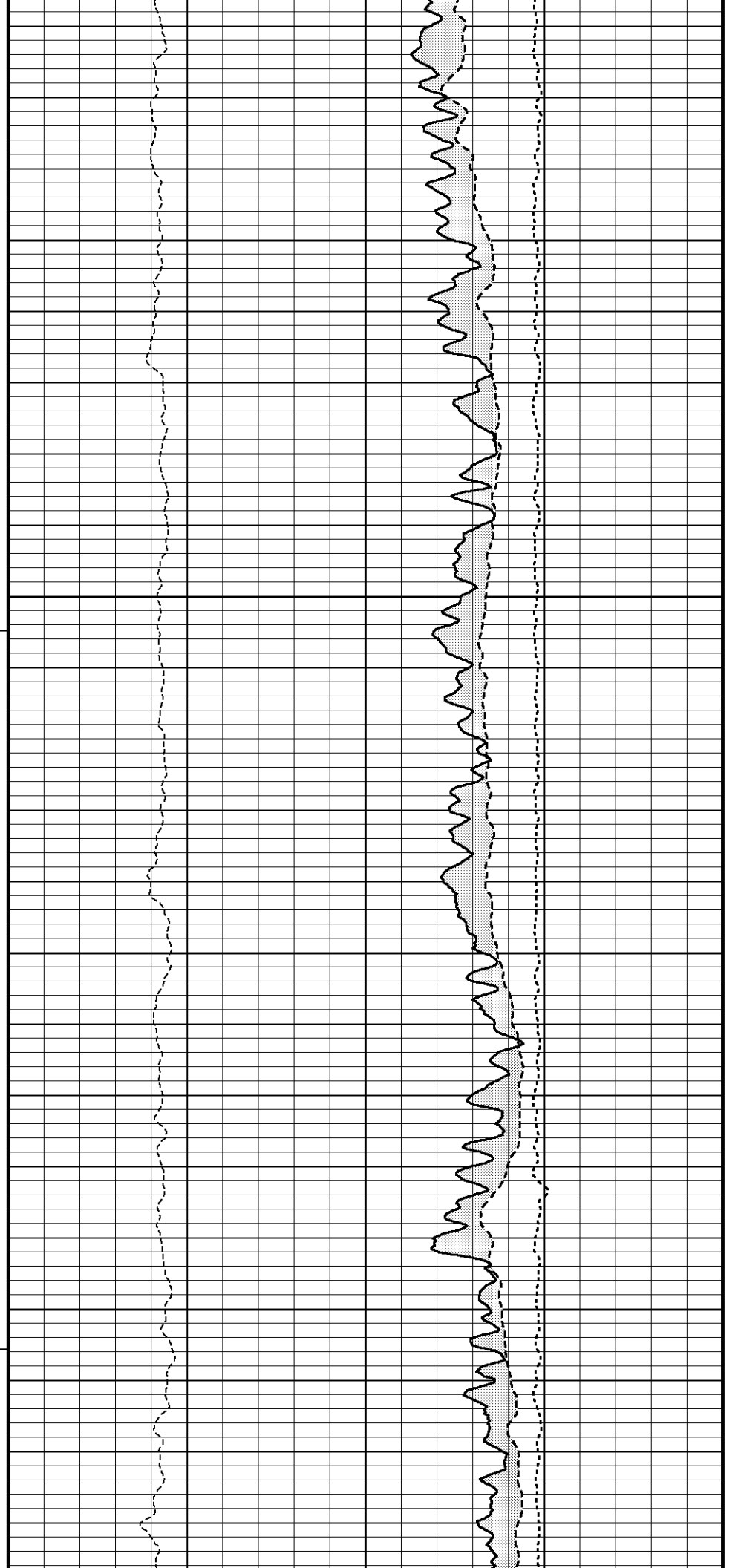
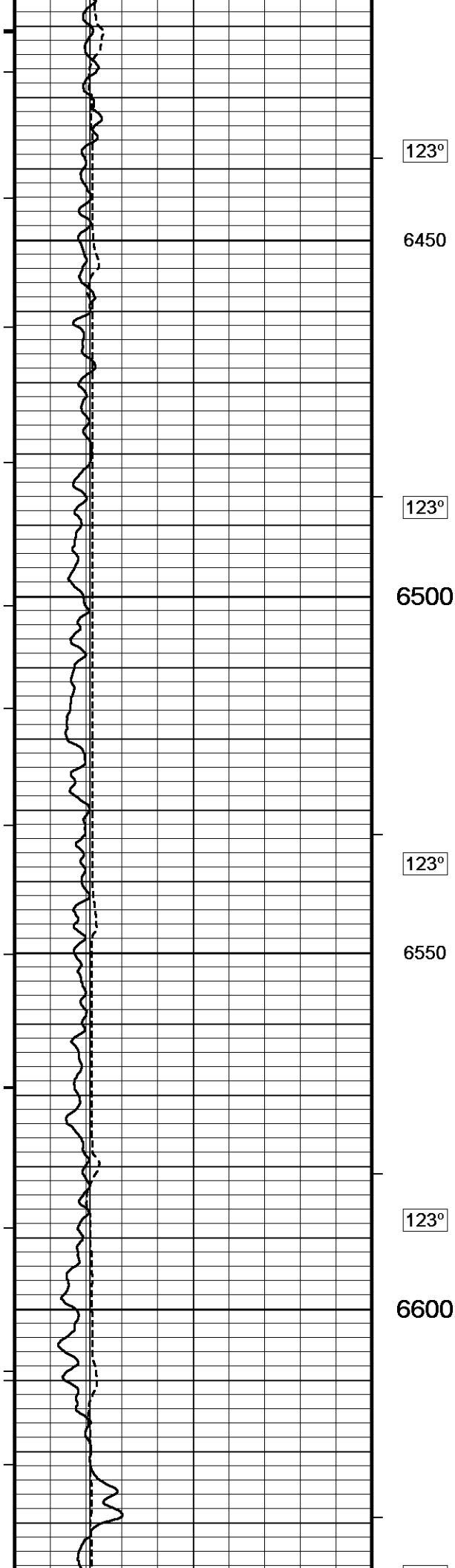
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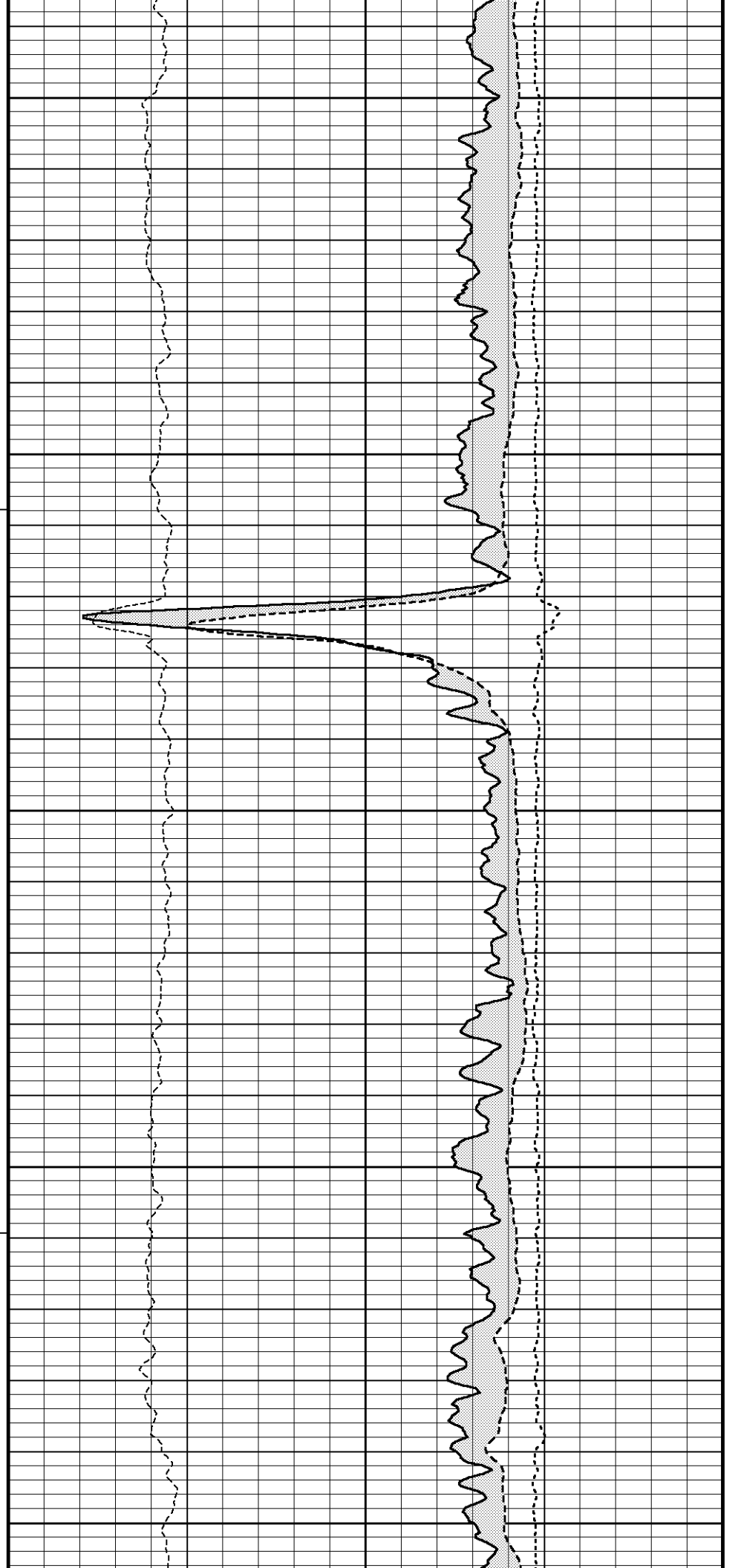
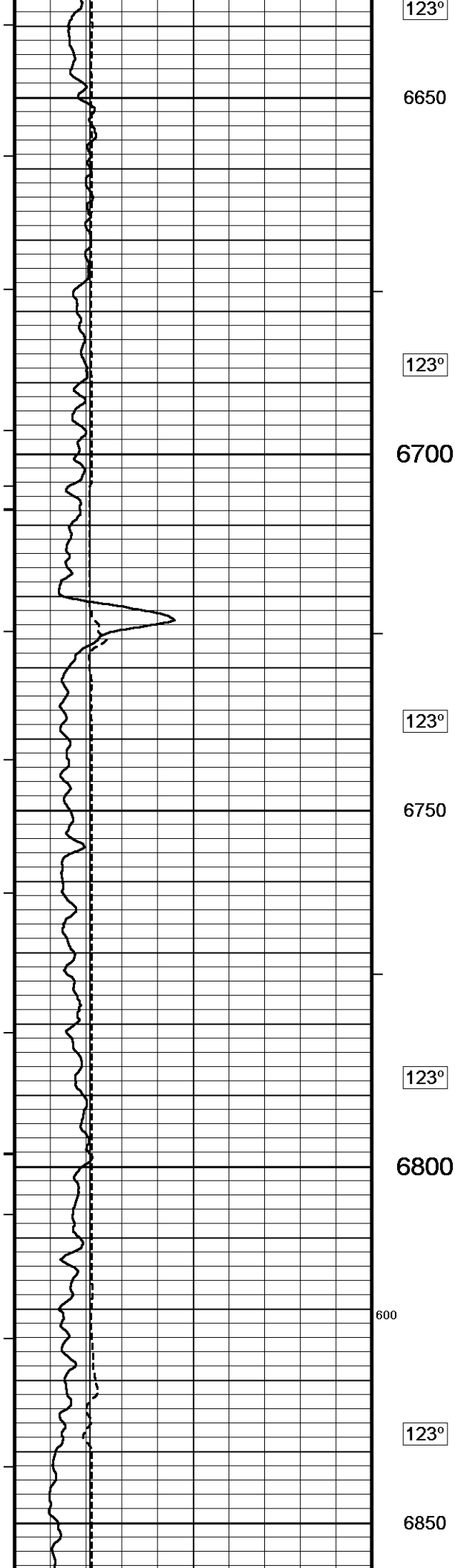
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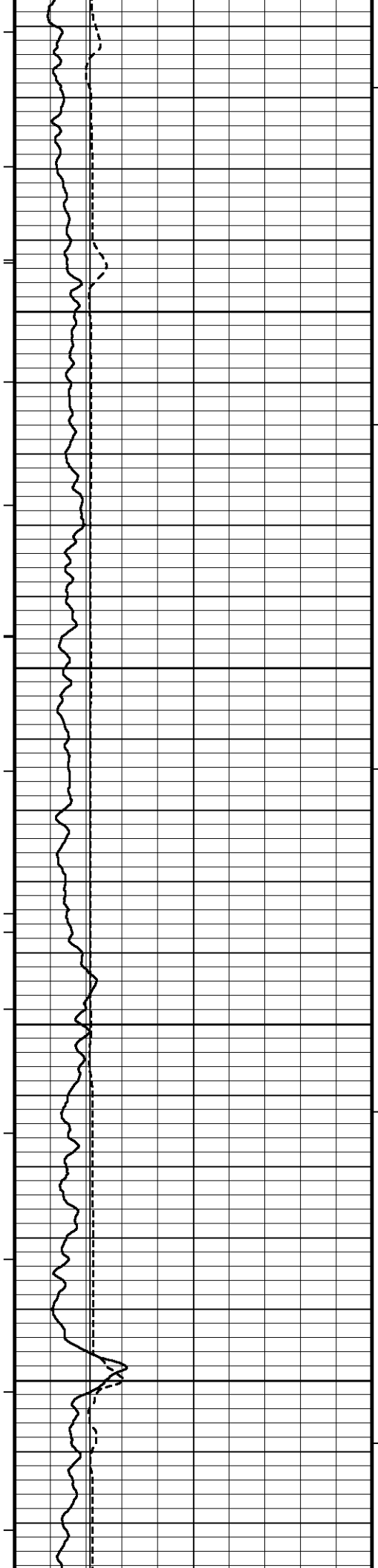
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123°

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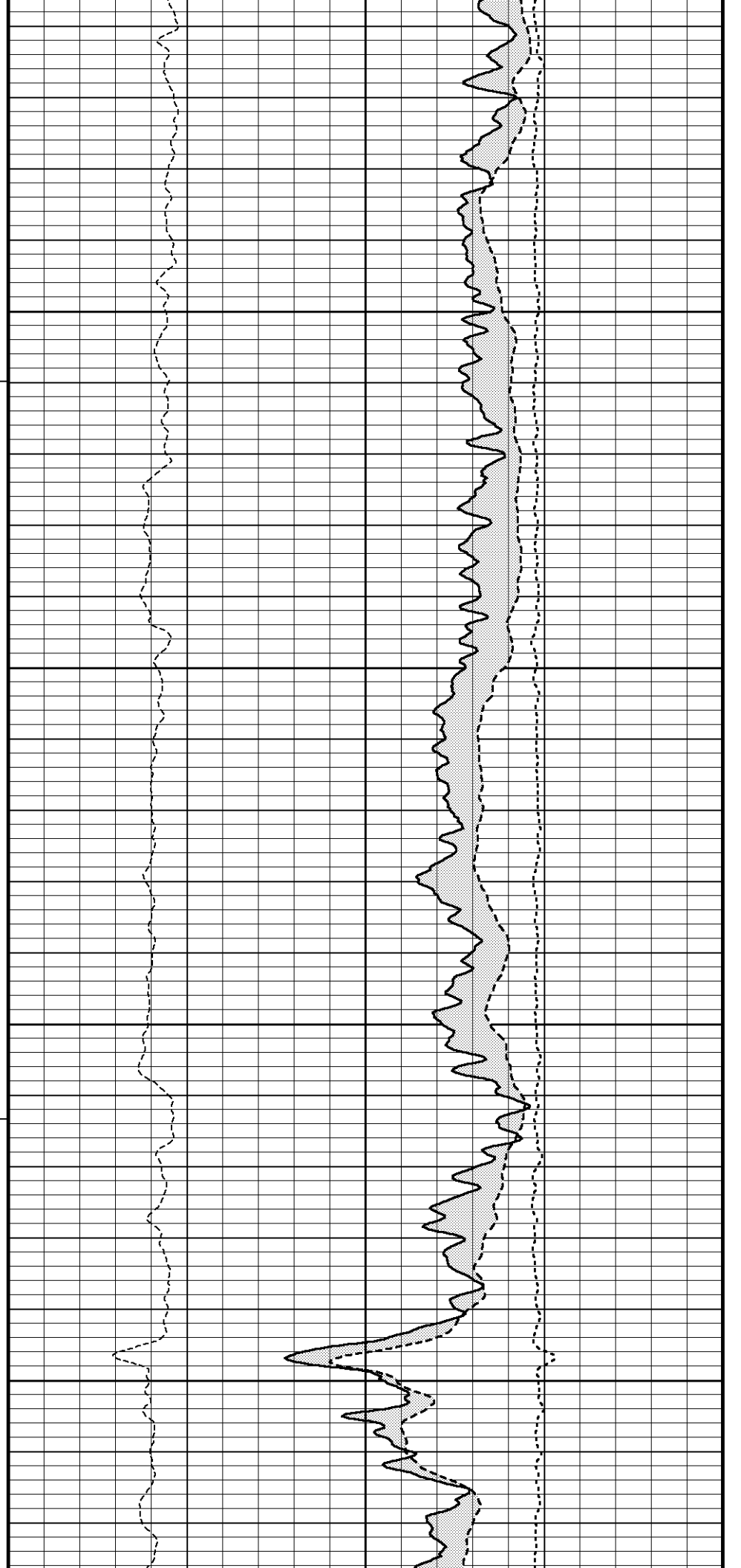
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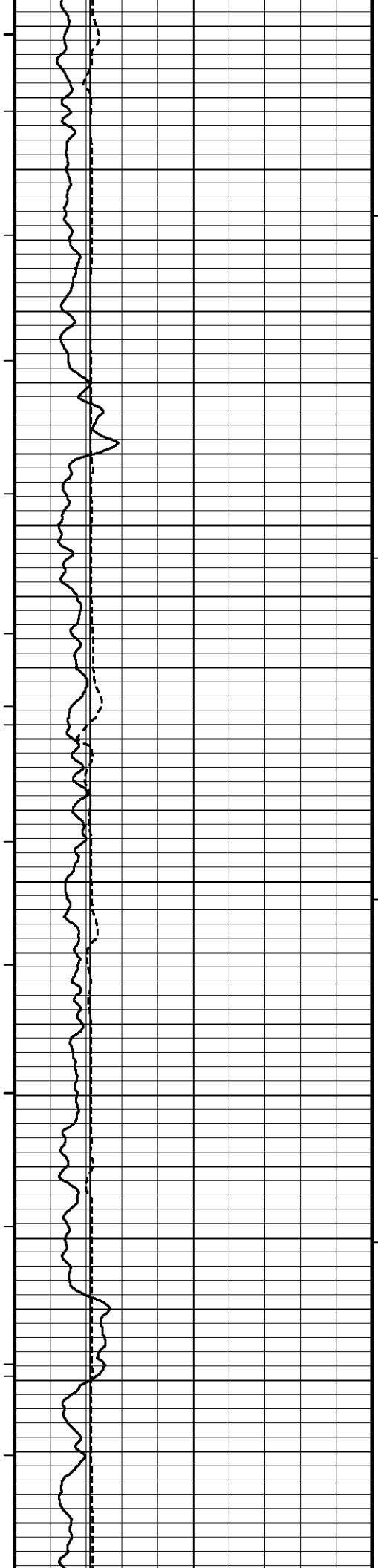
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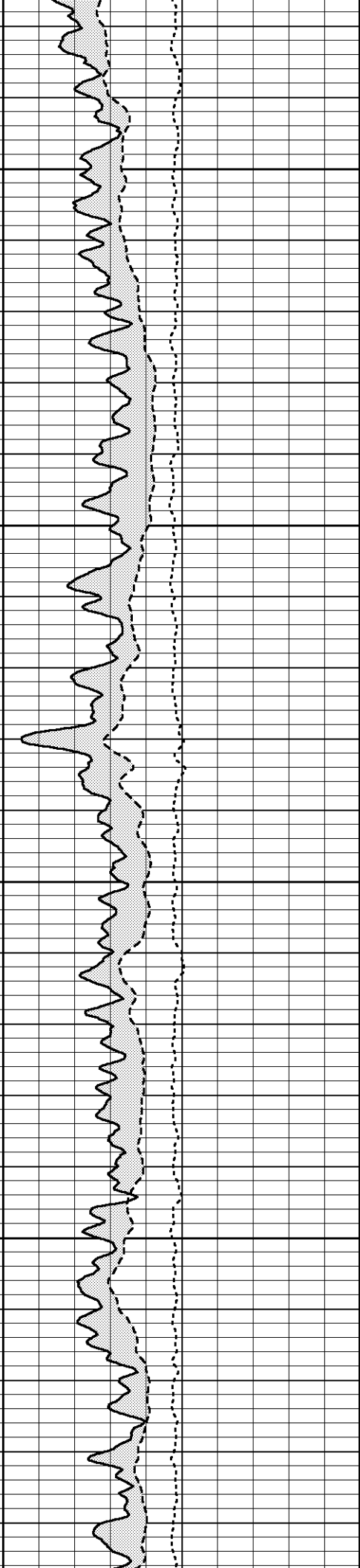
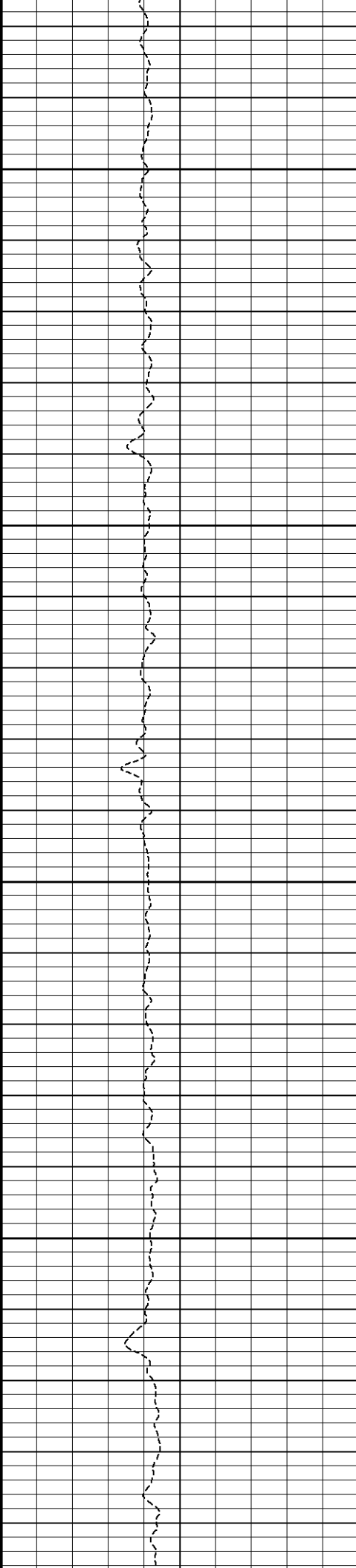
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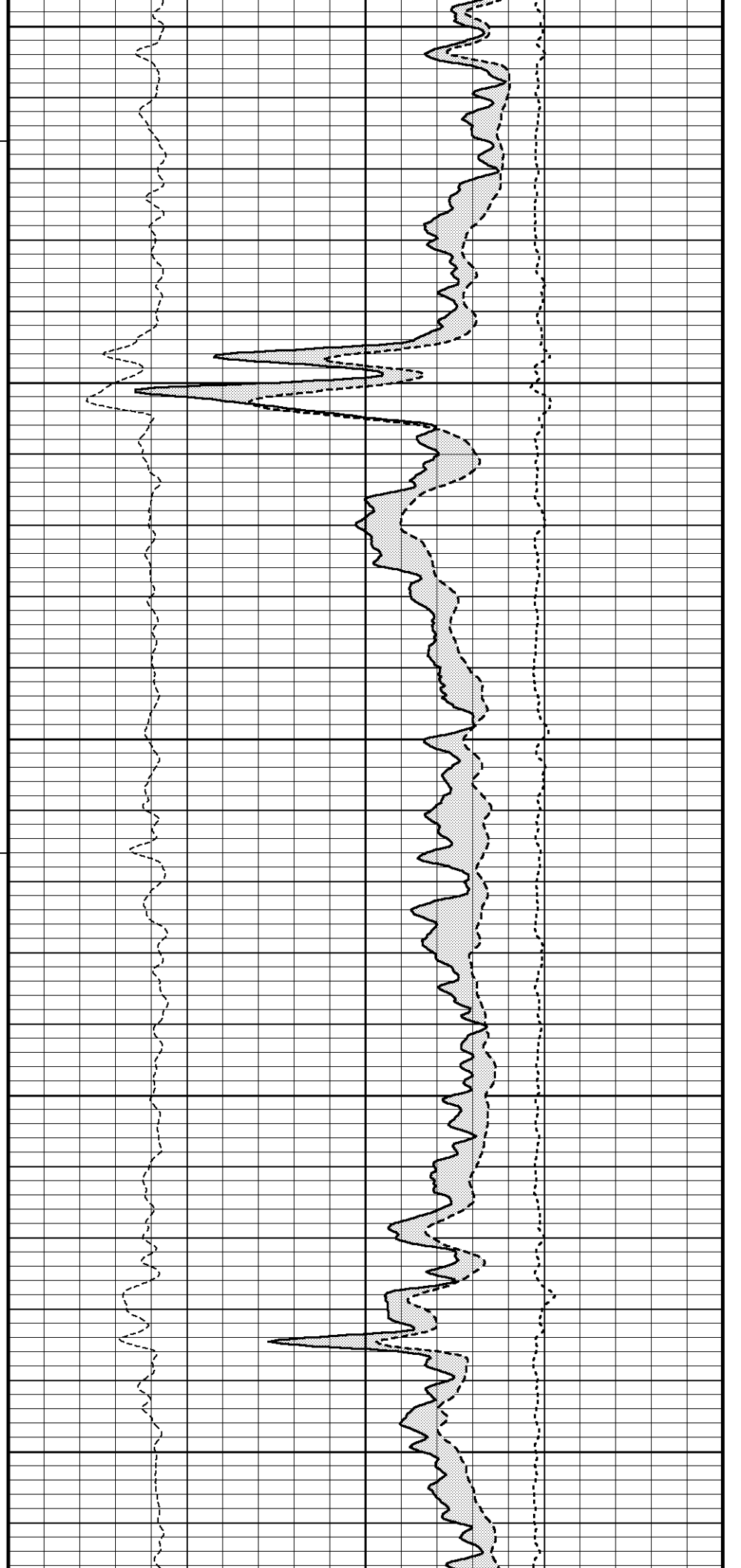
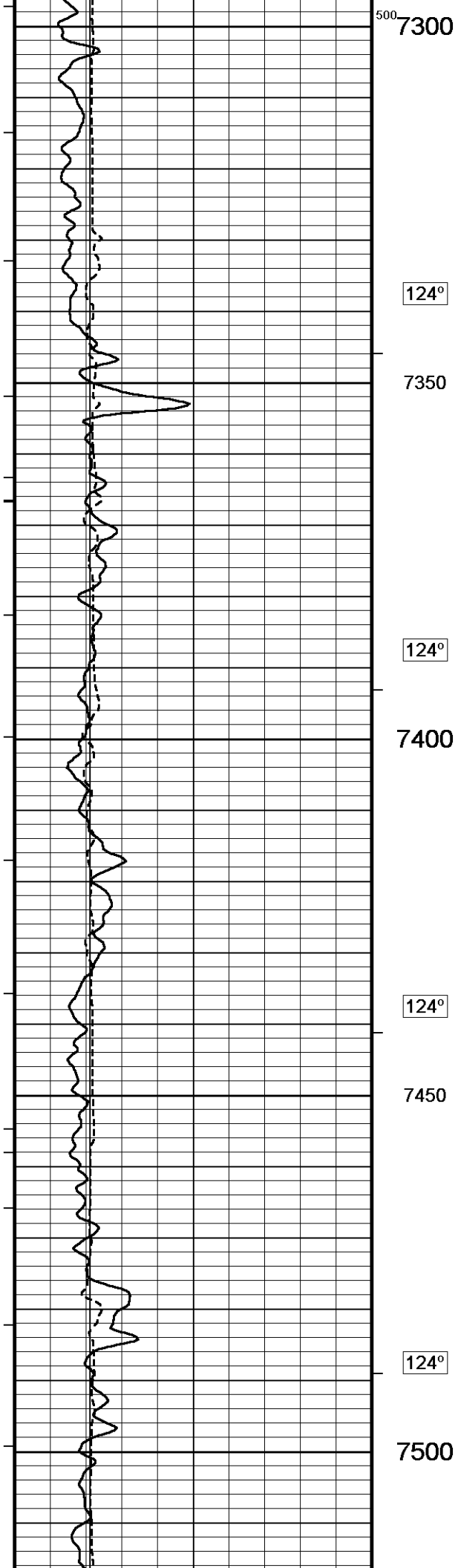
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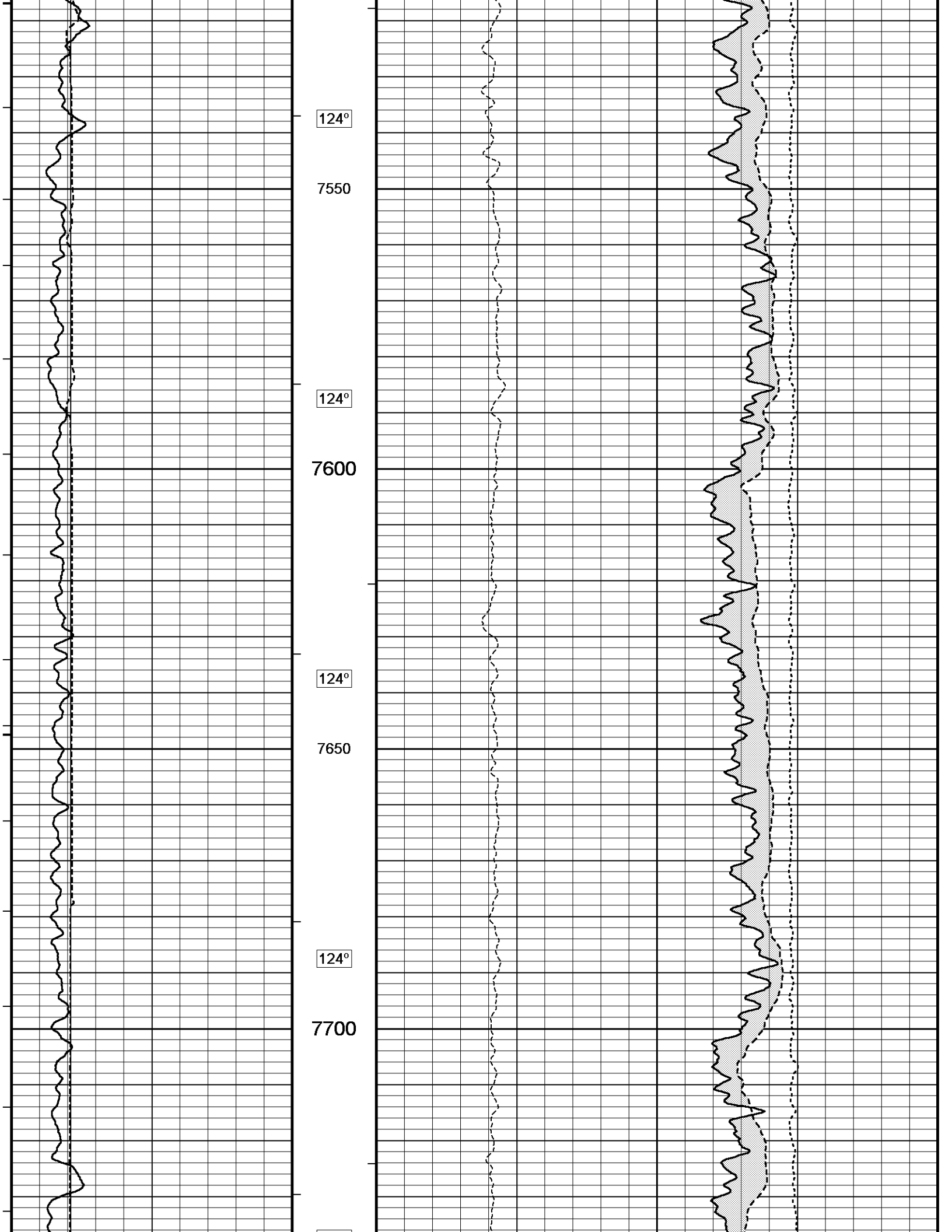


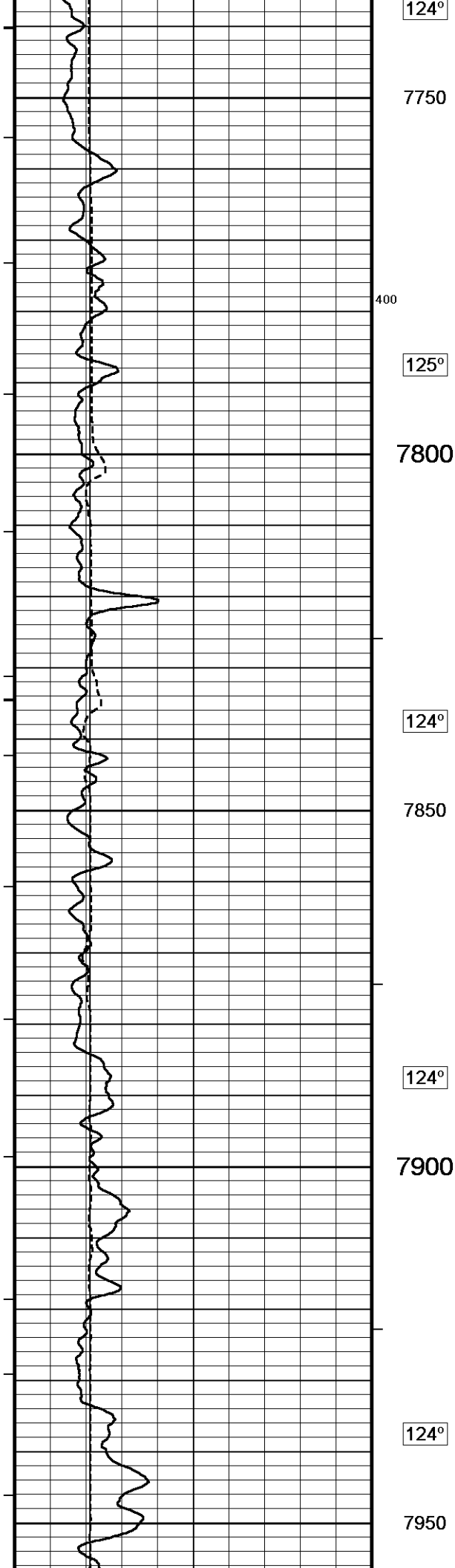


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124°

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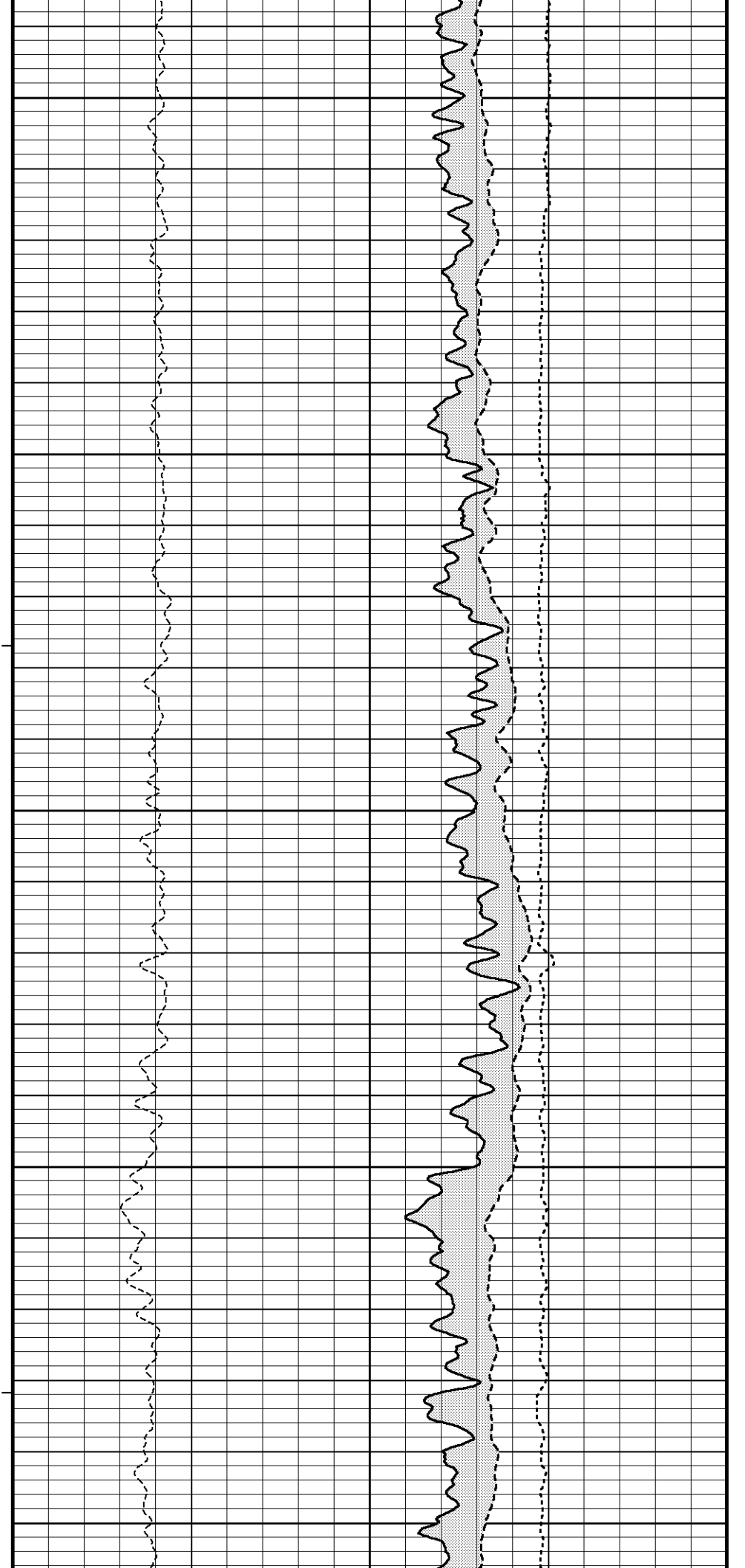
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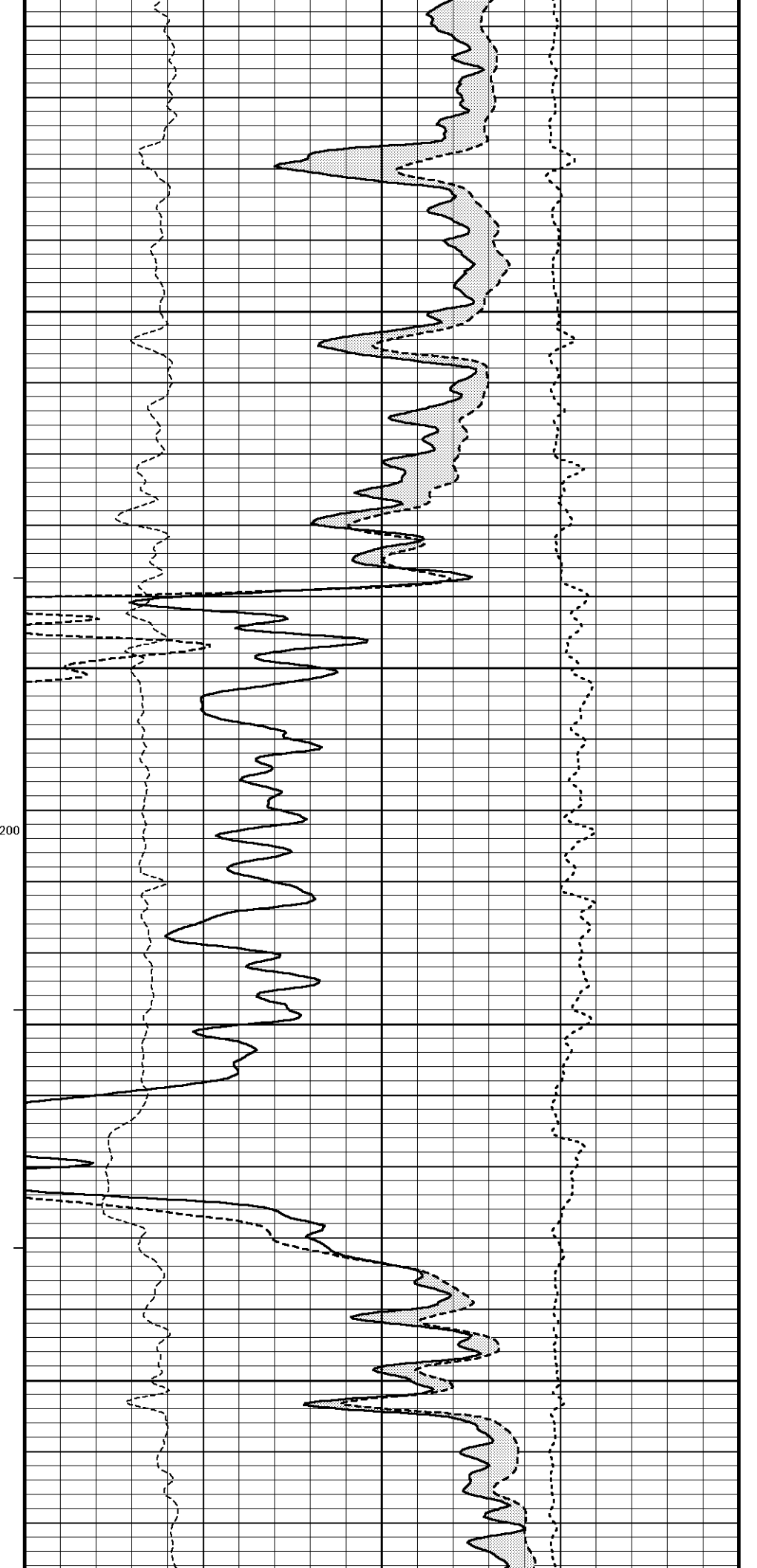
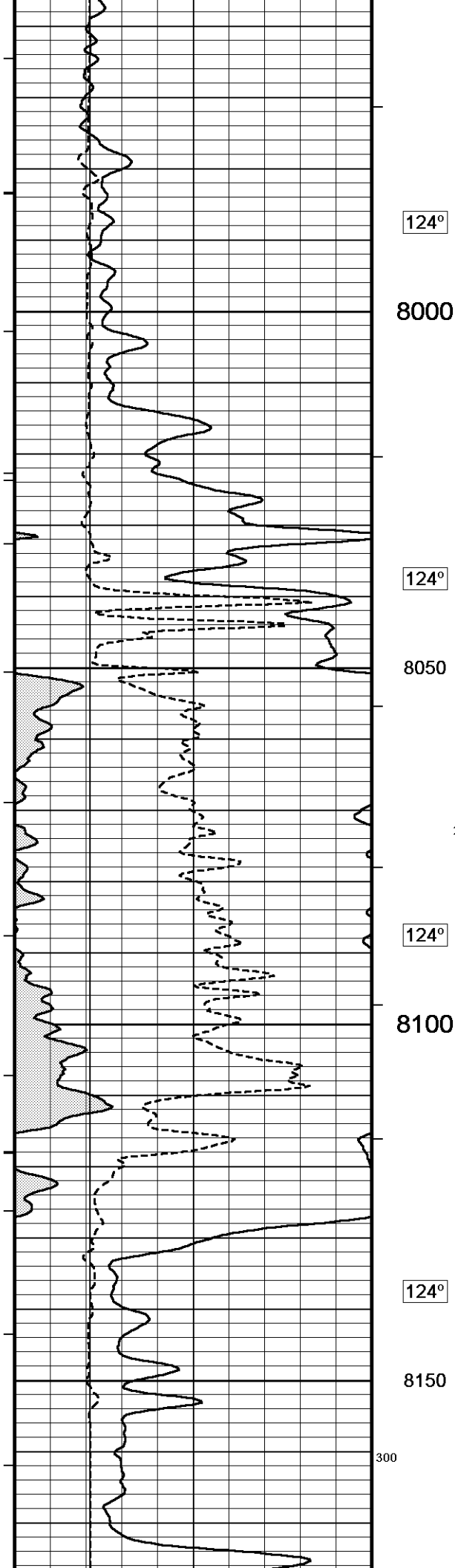
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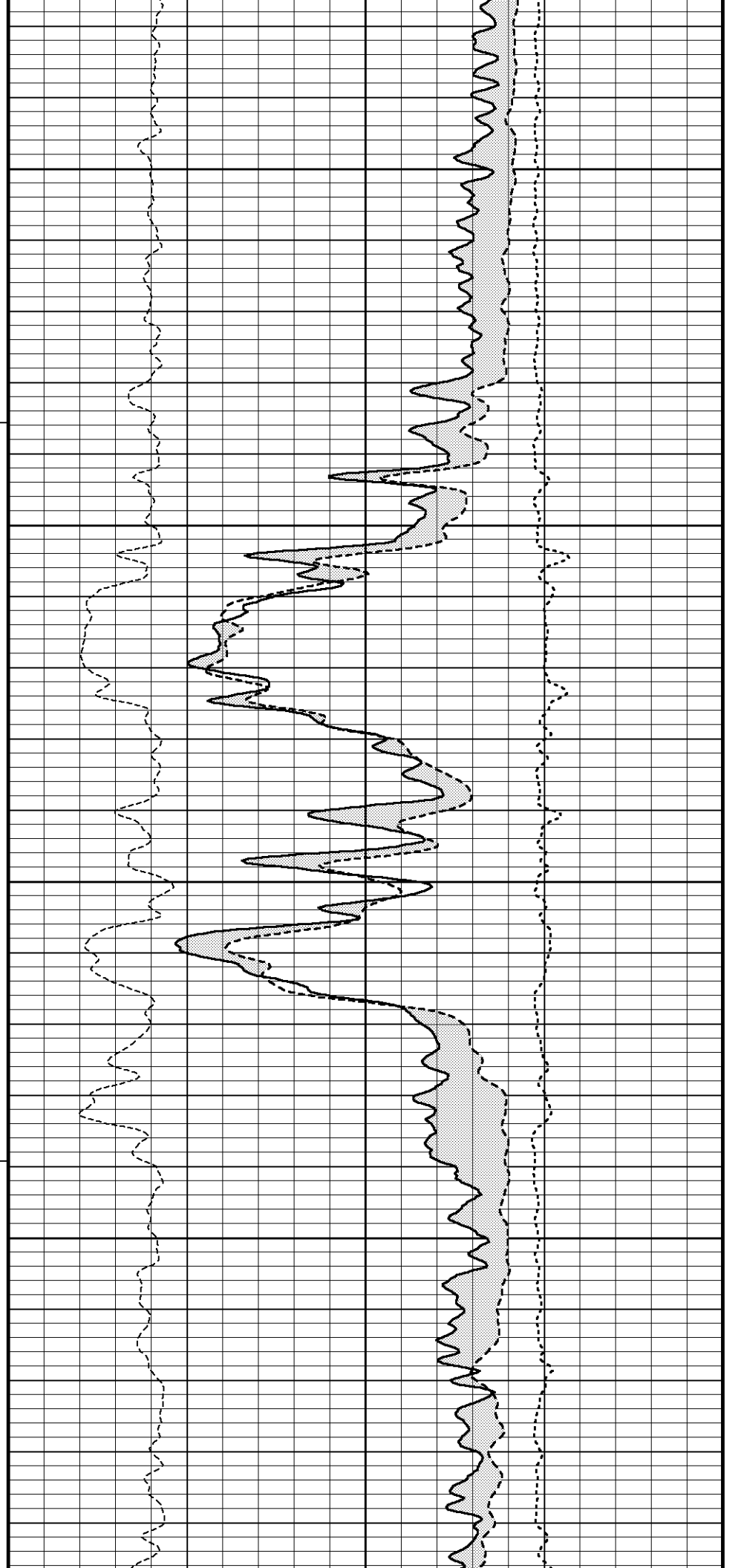
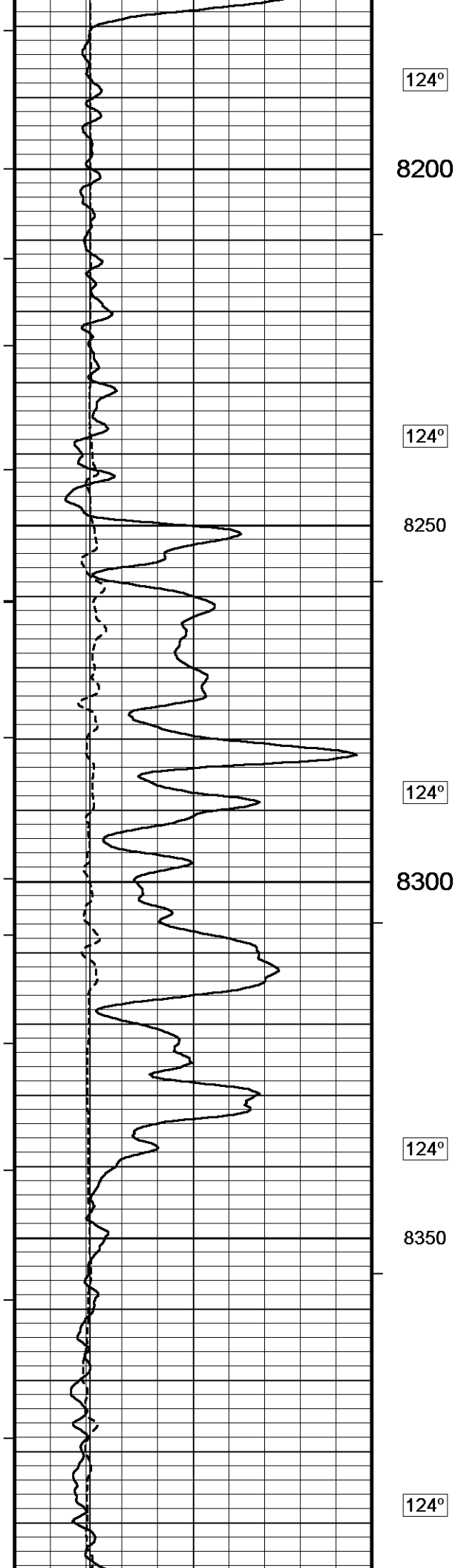
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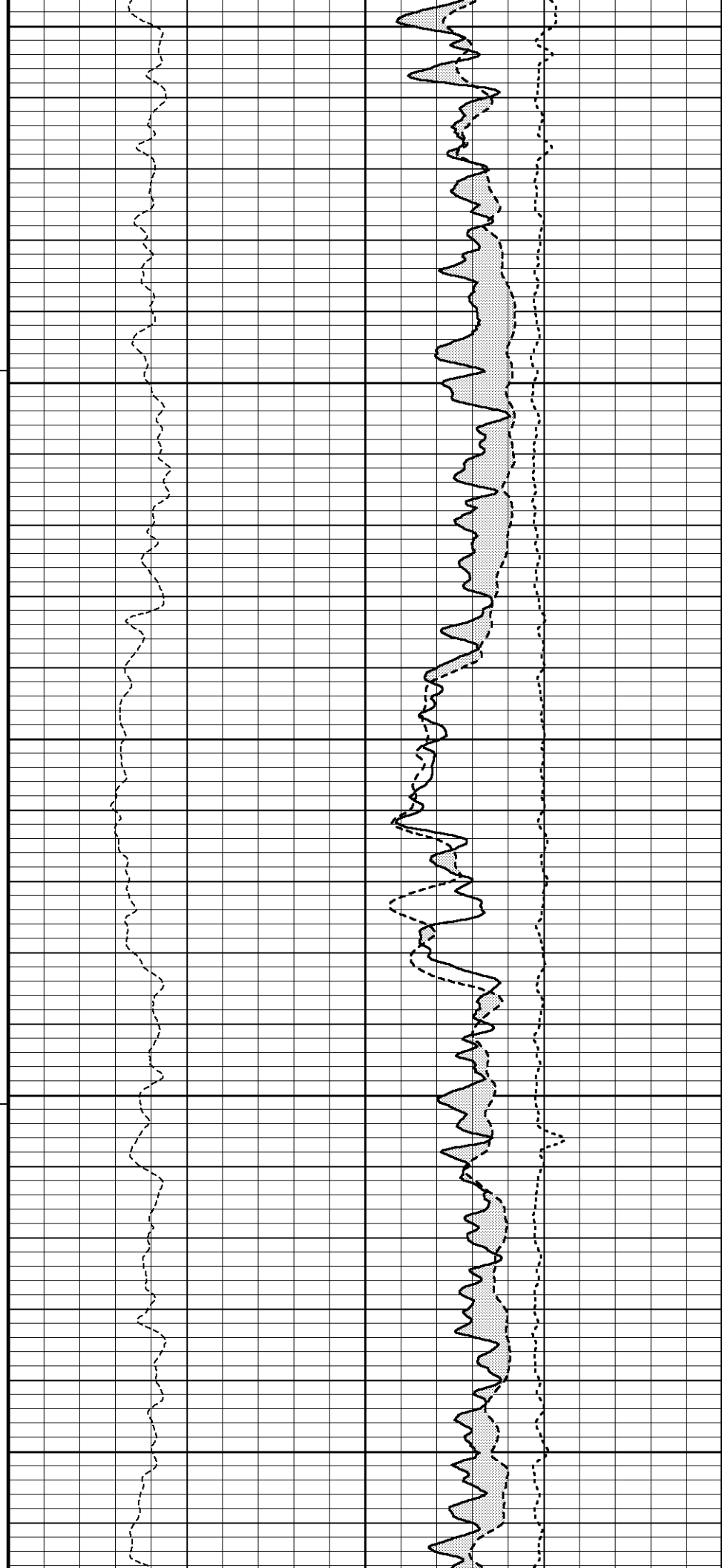
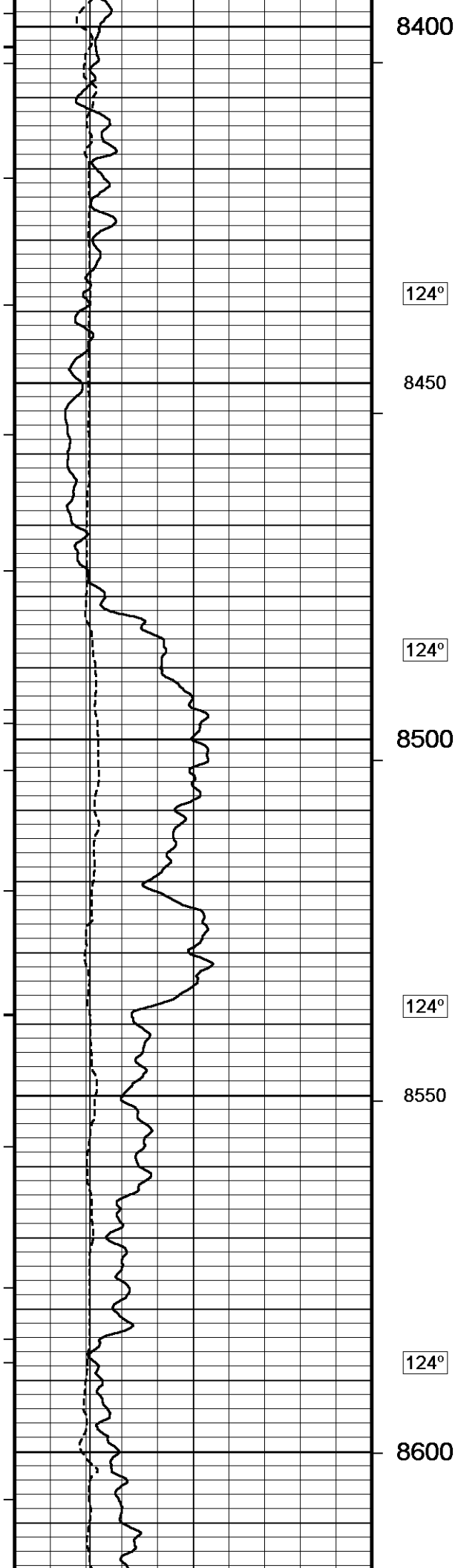
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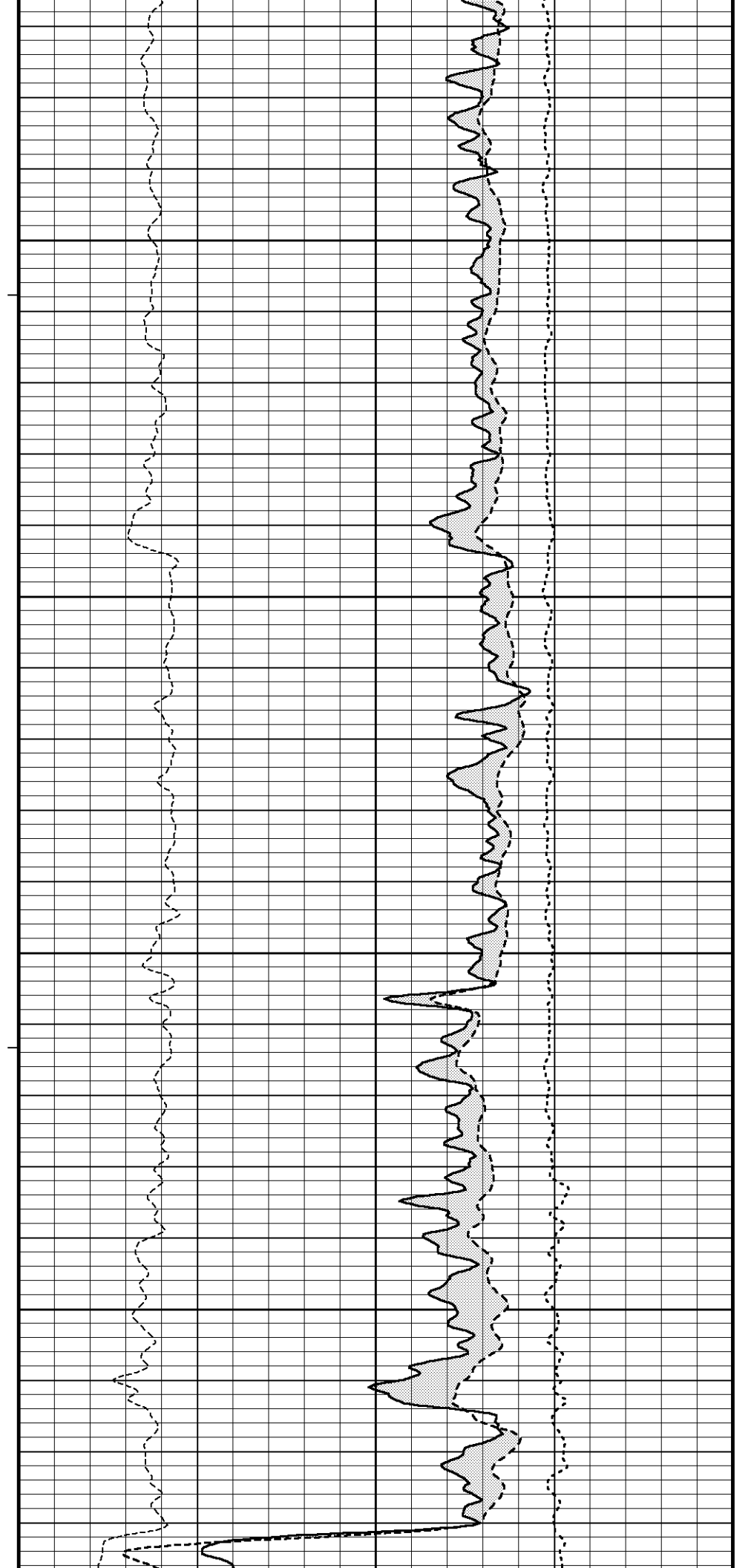
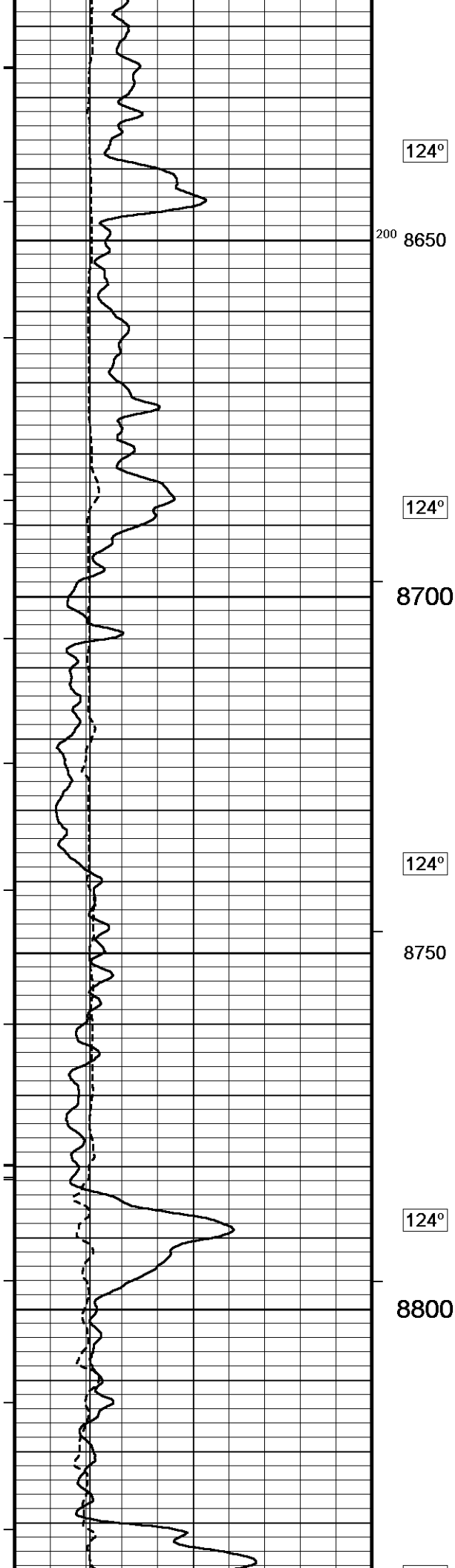
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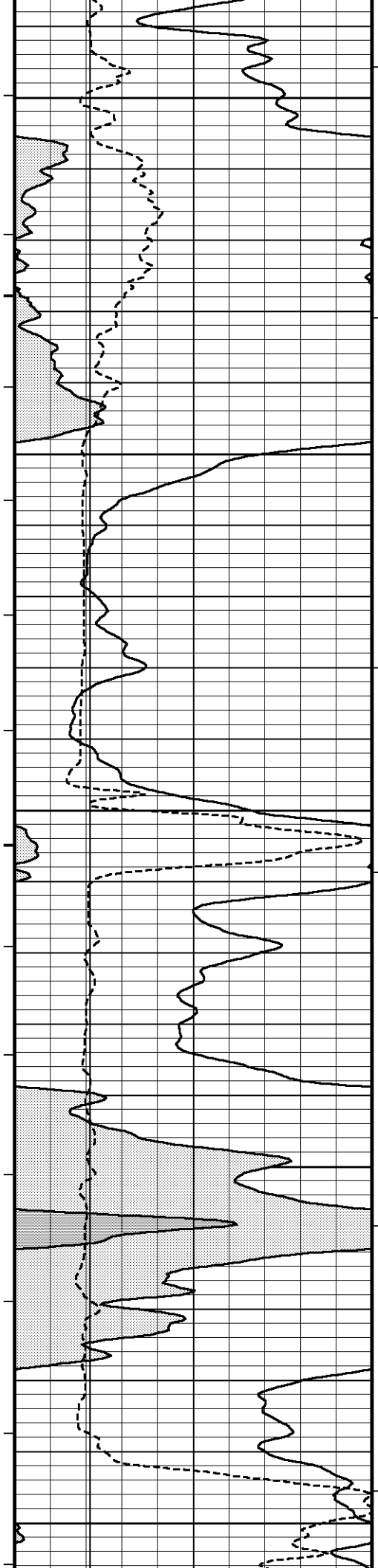












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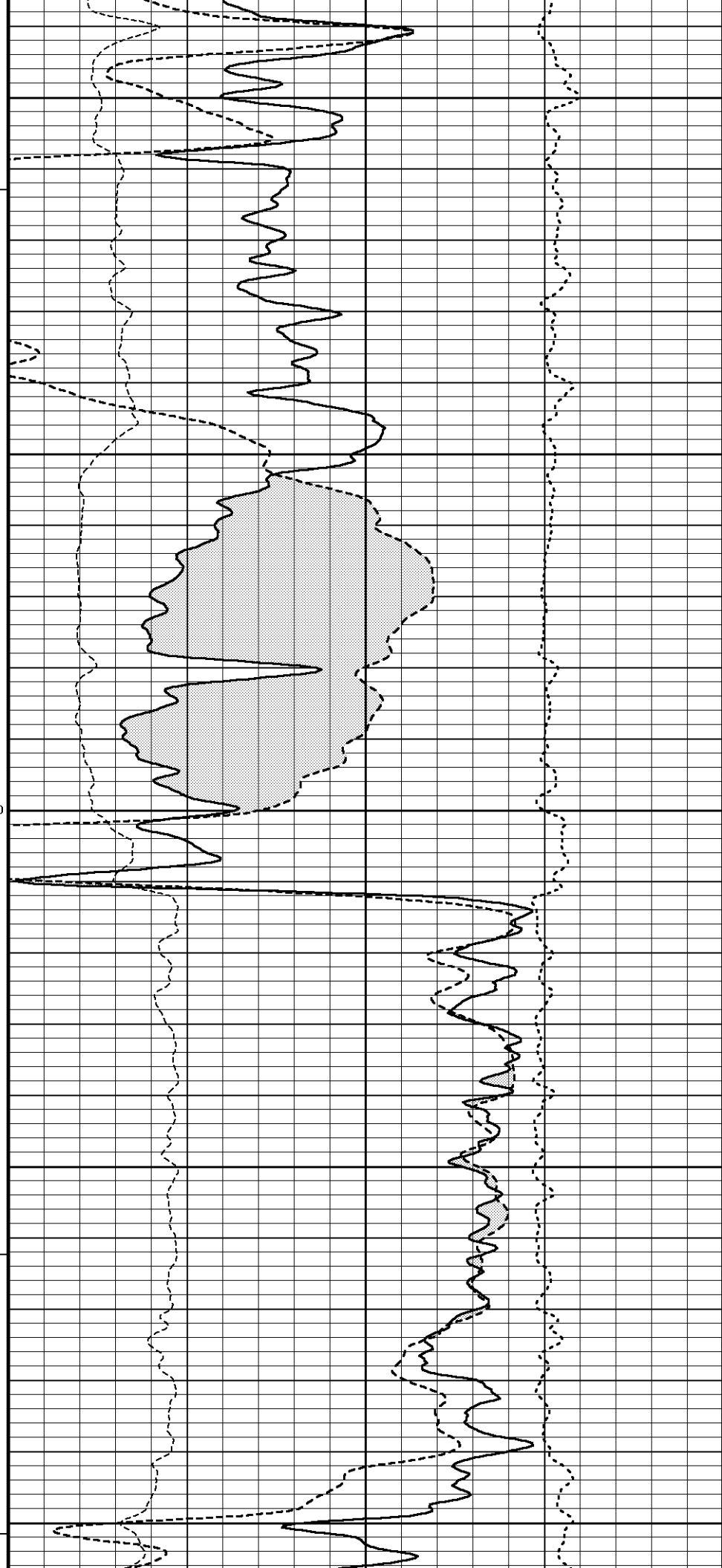
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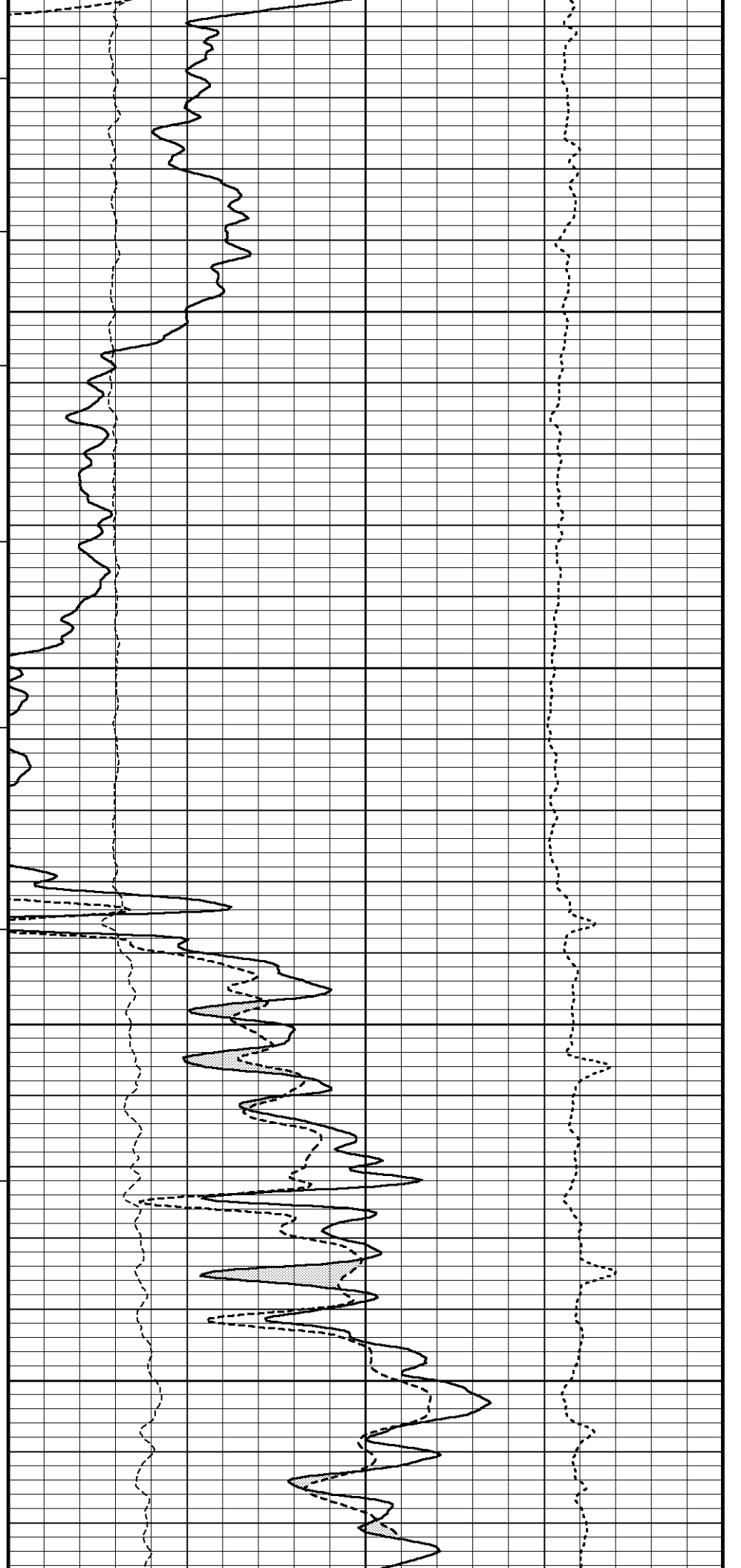
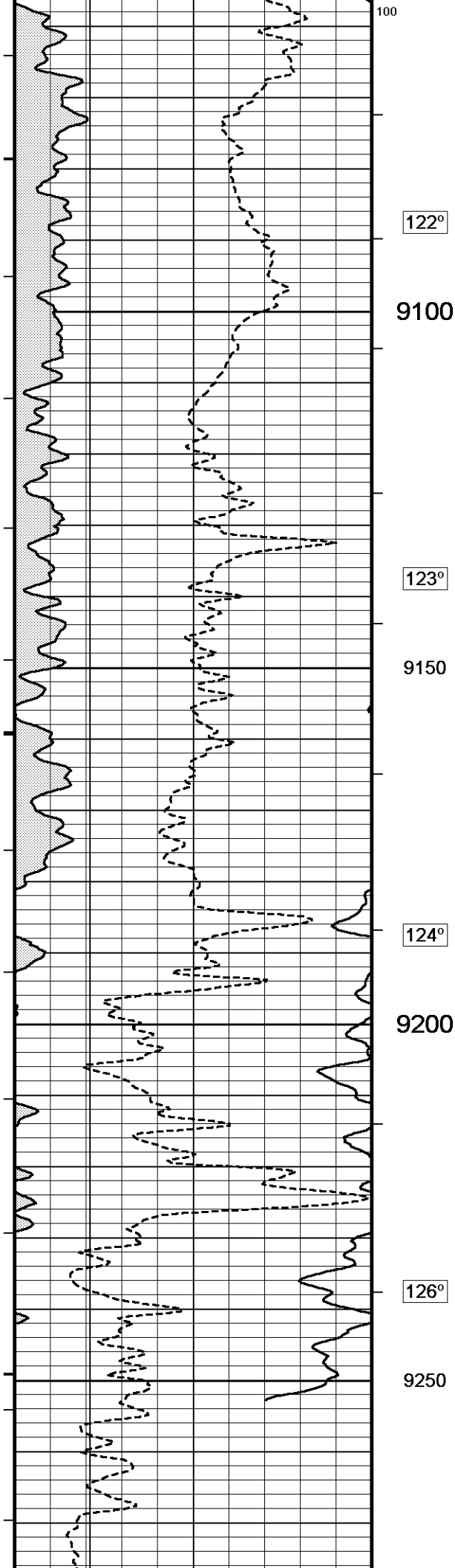
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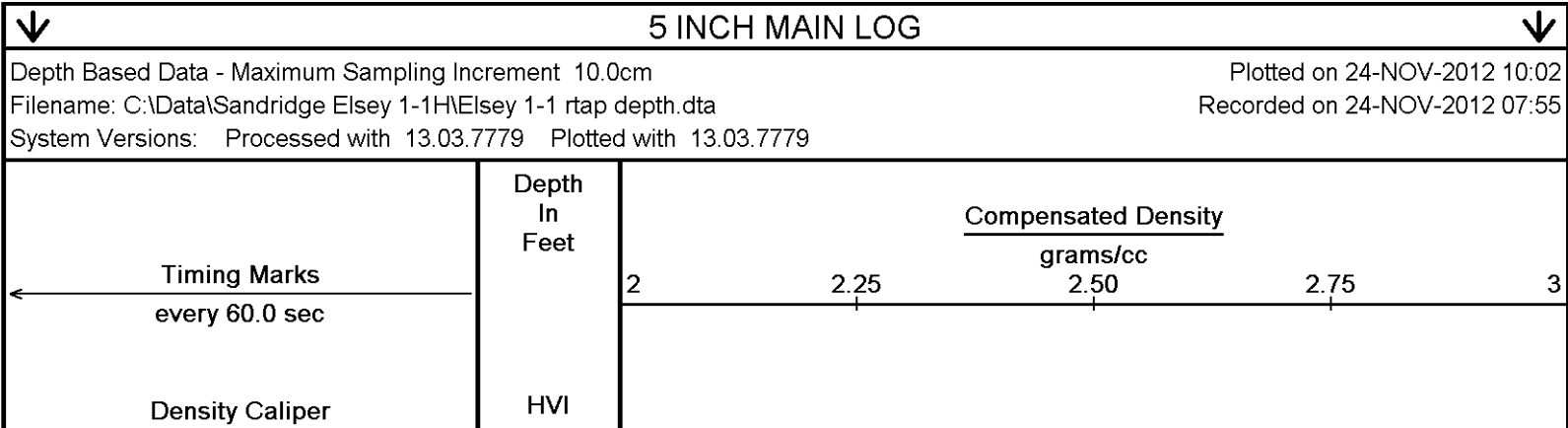
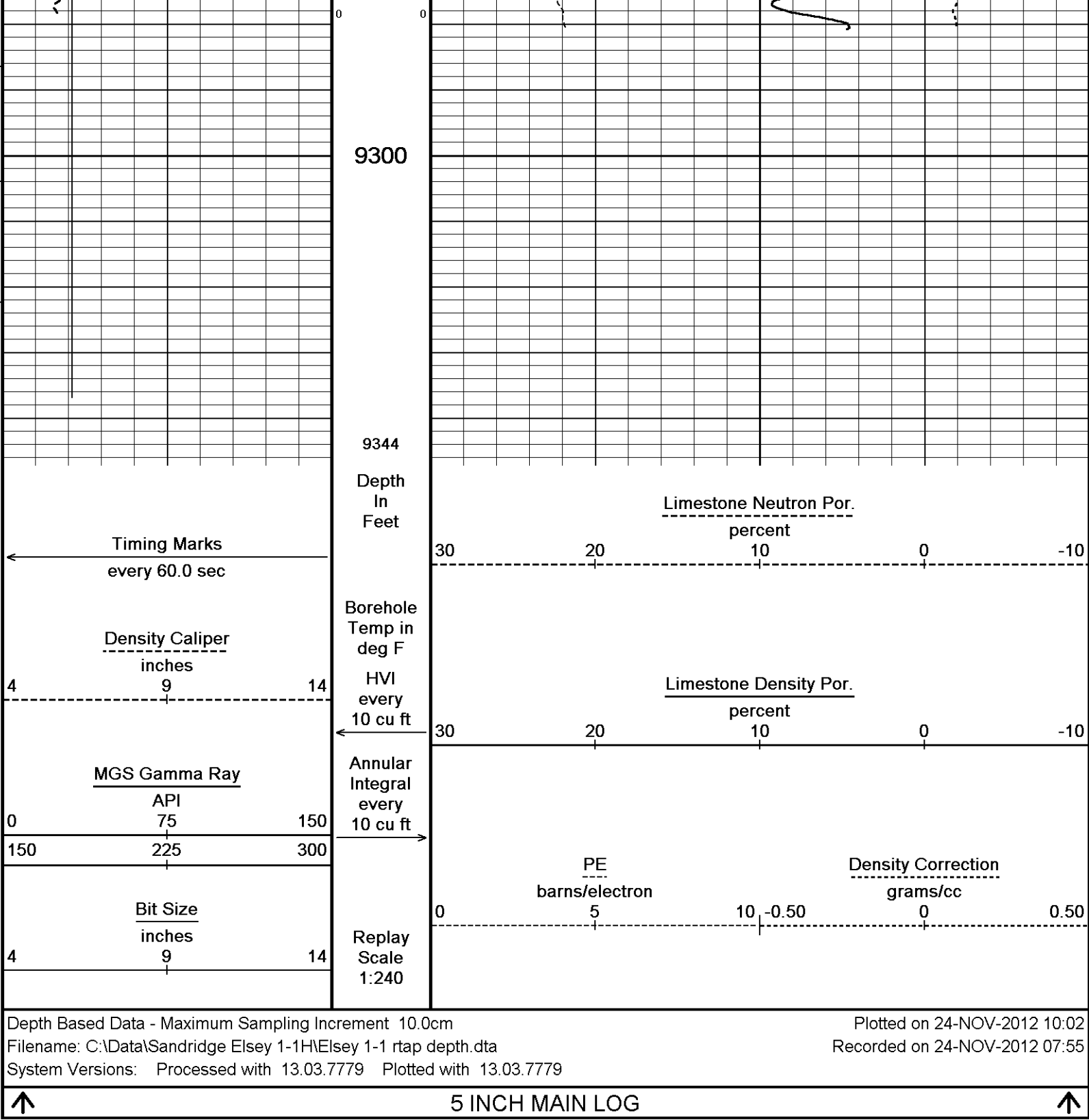
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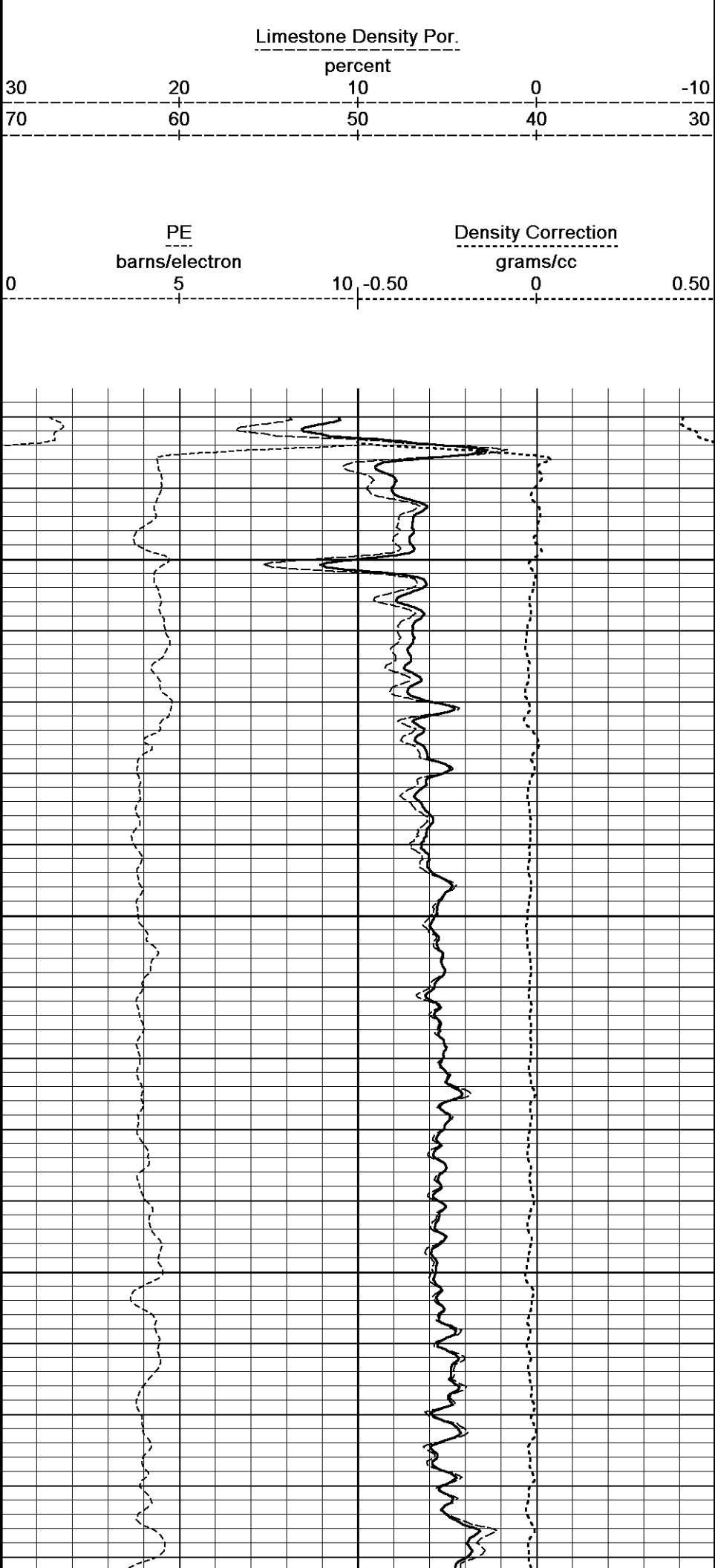
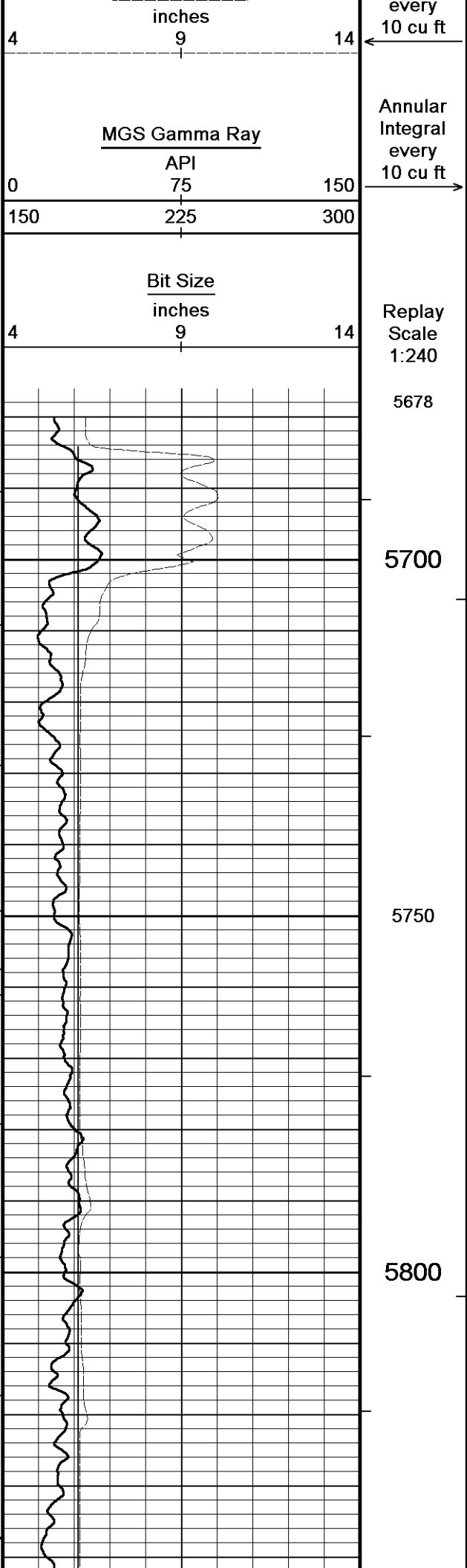
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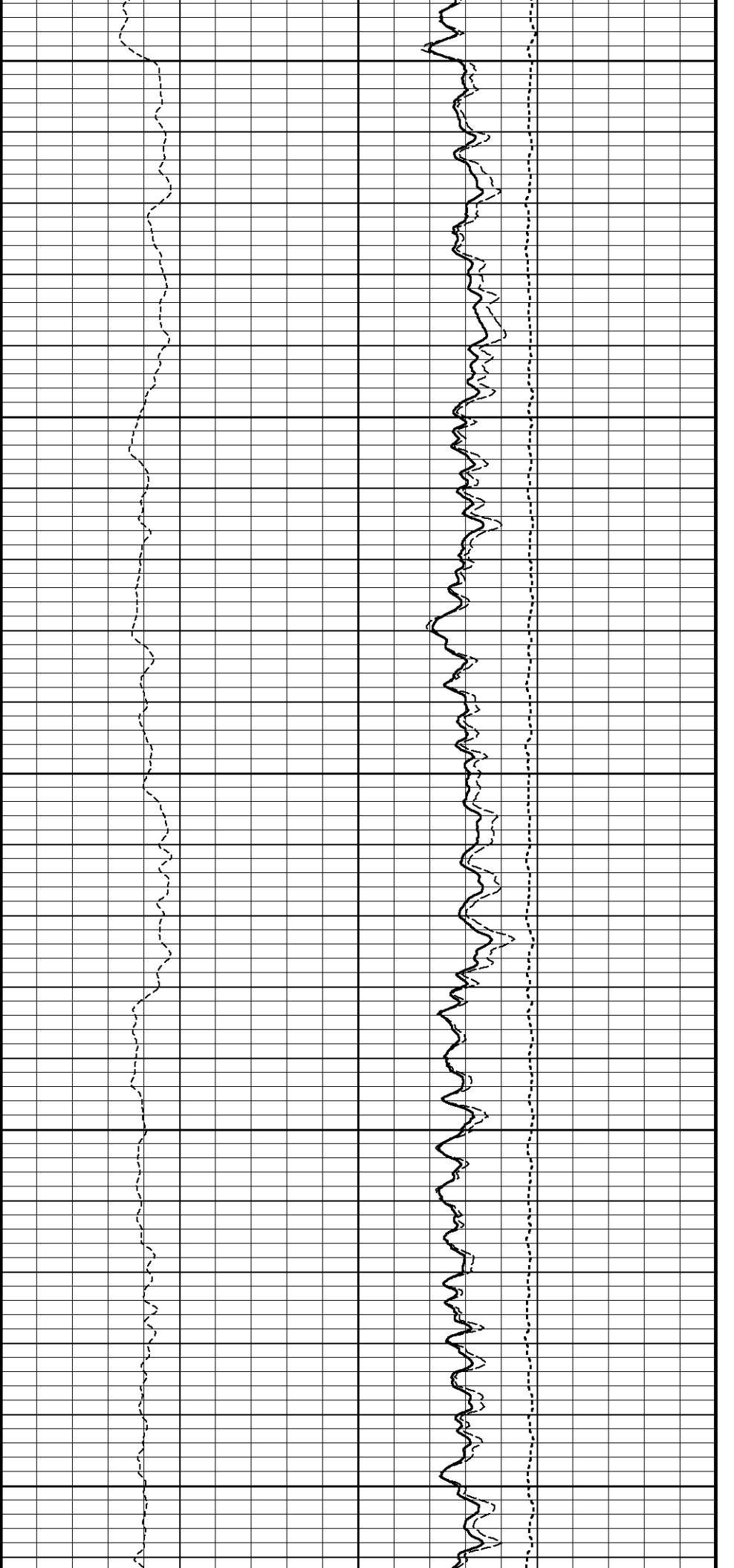
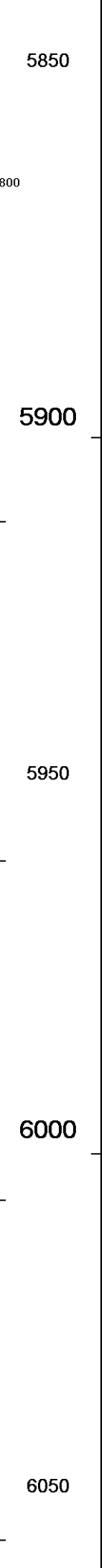
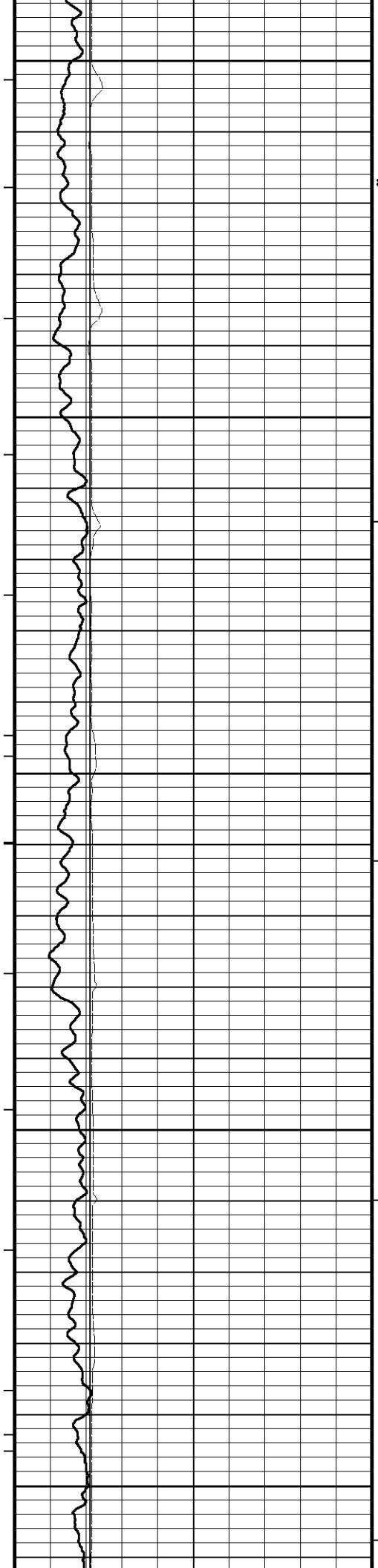
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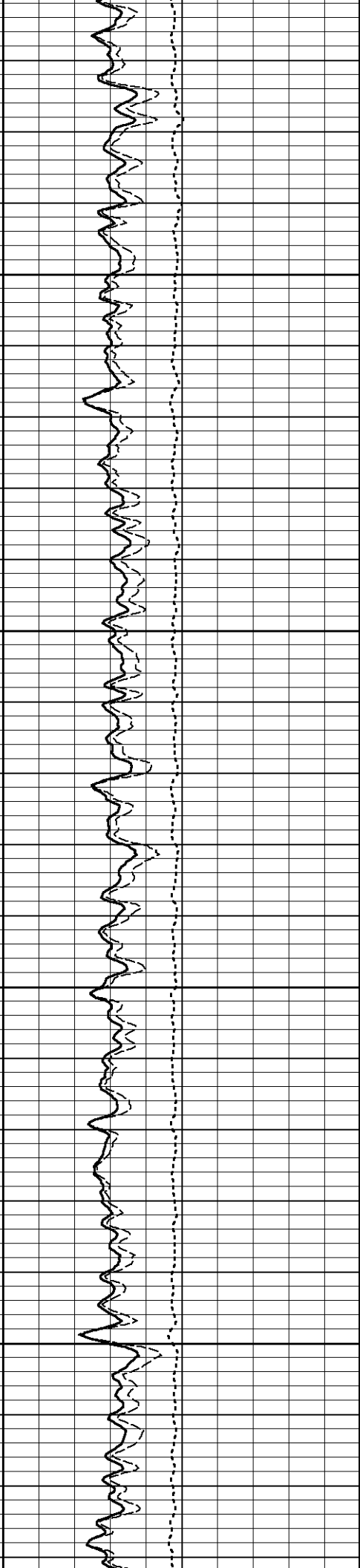
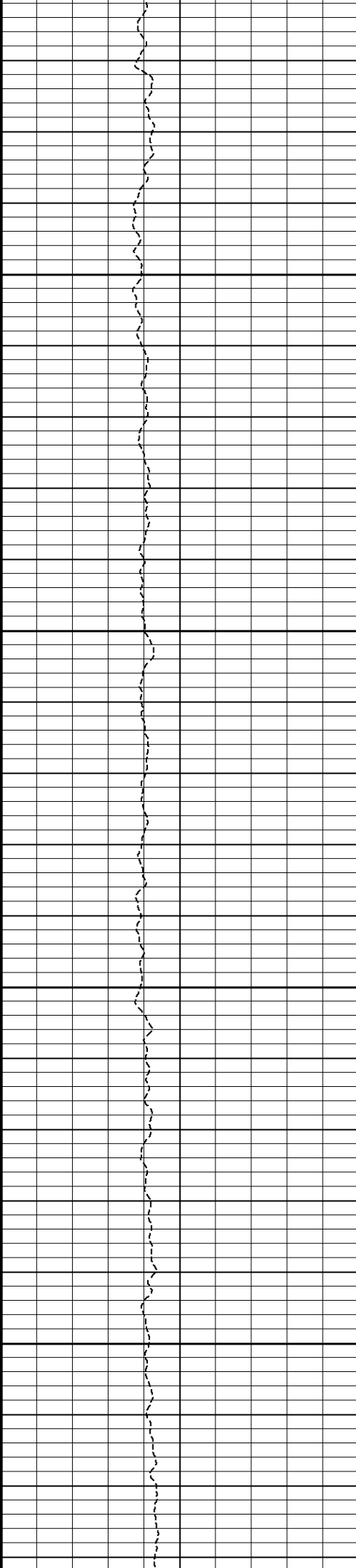
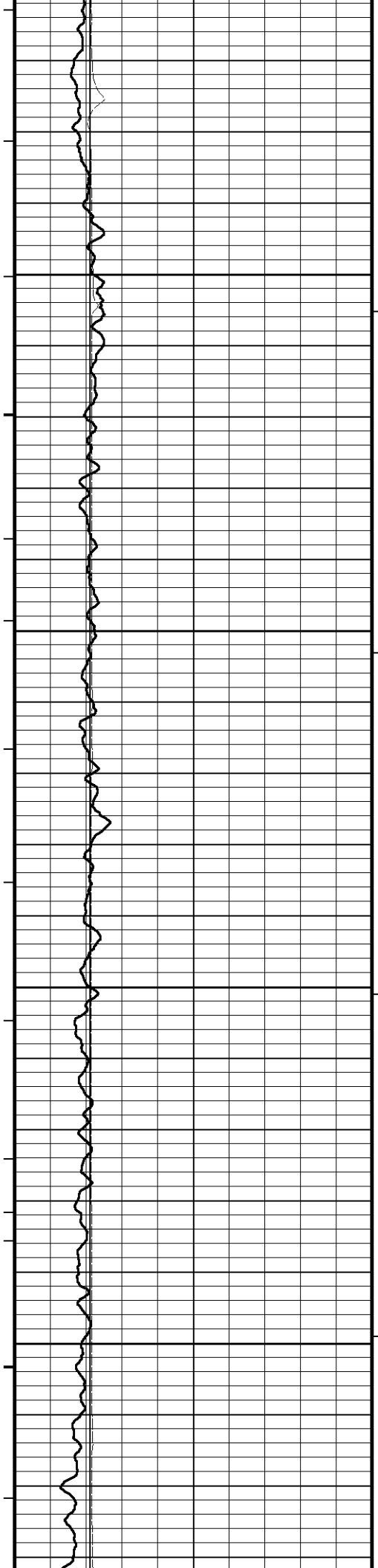


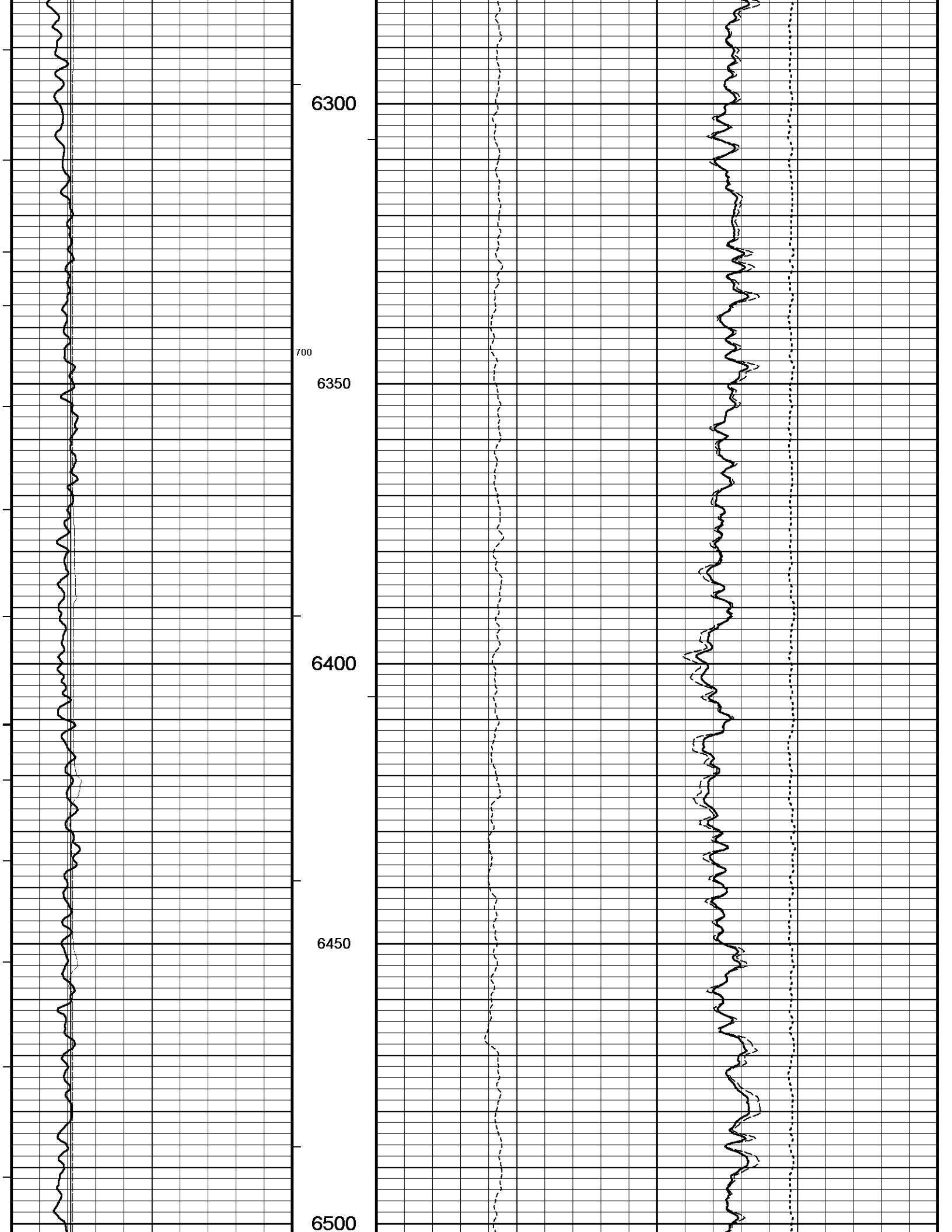


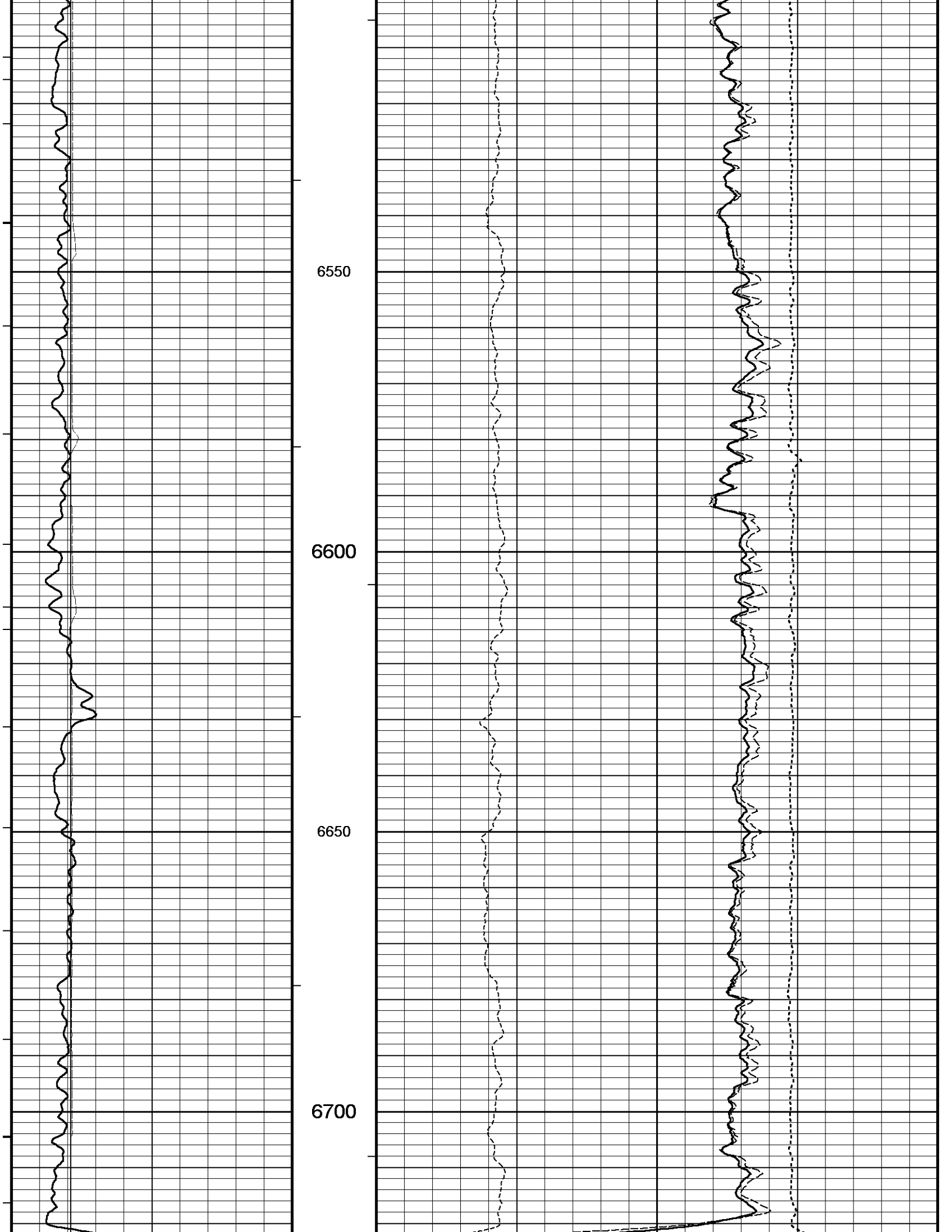


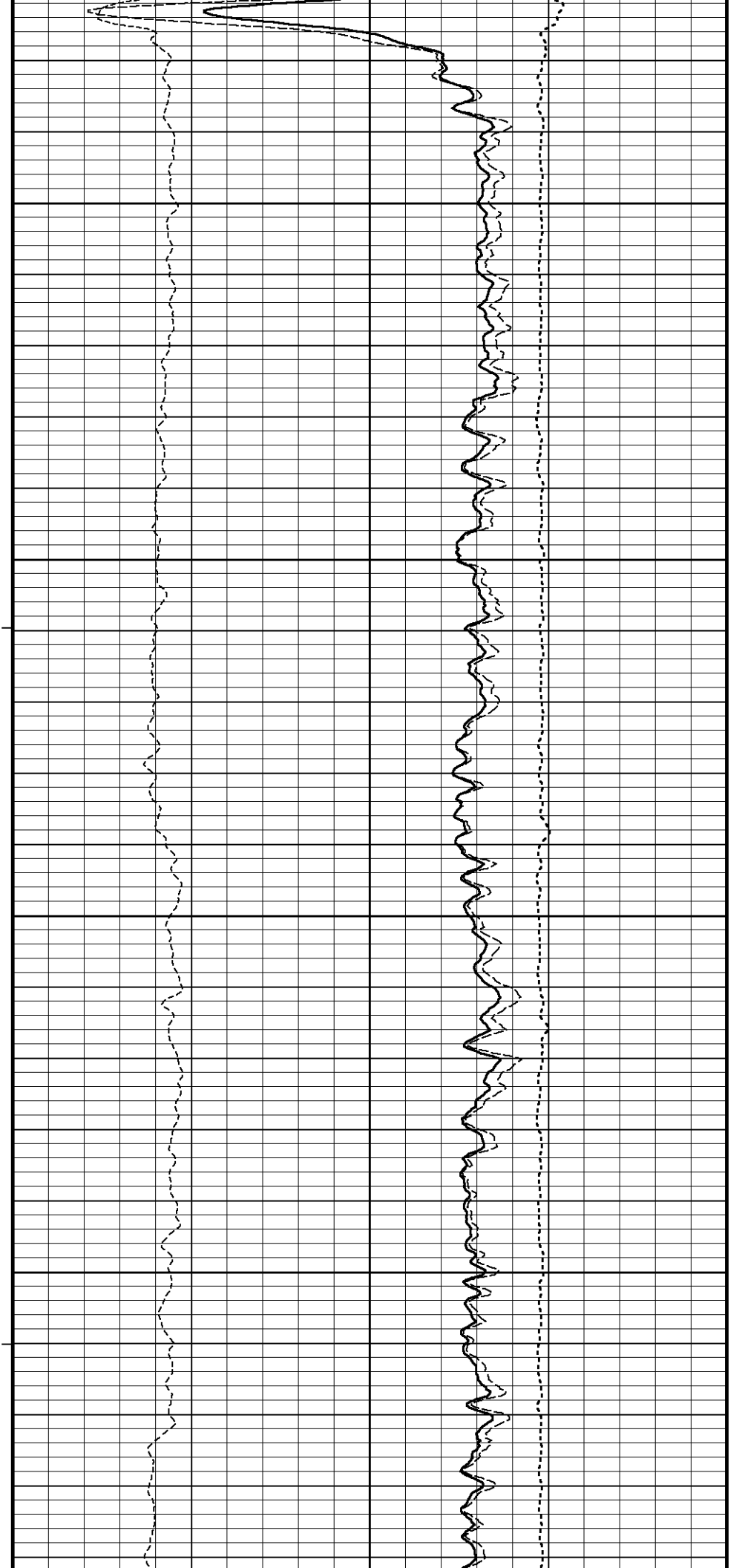
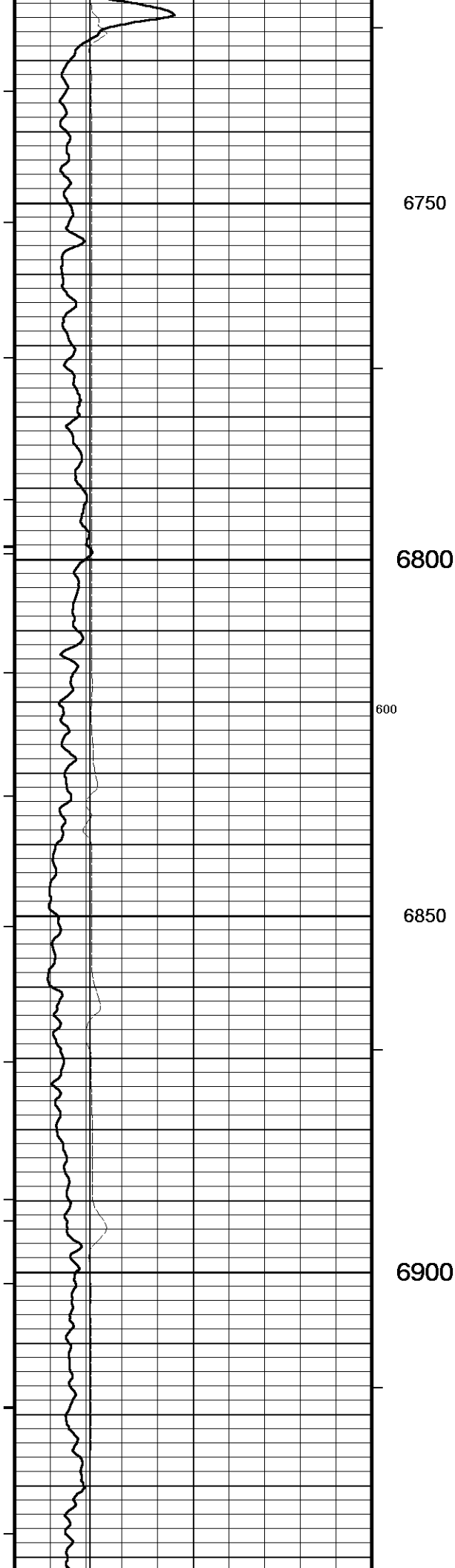


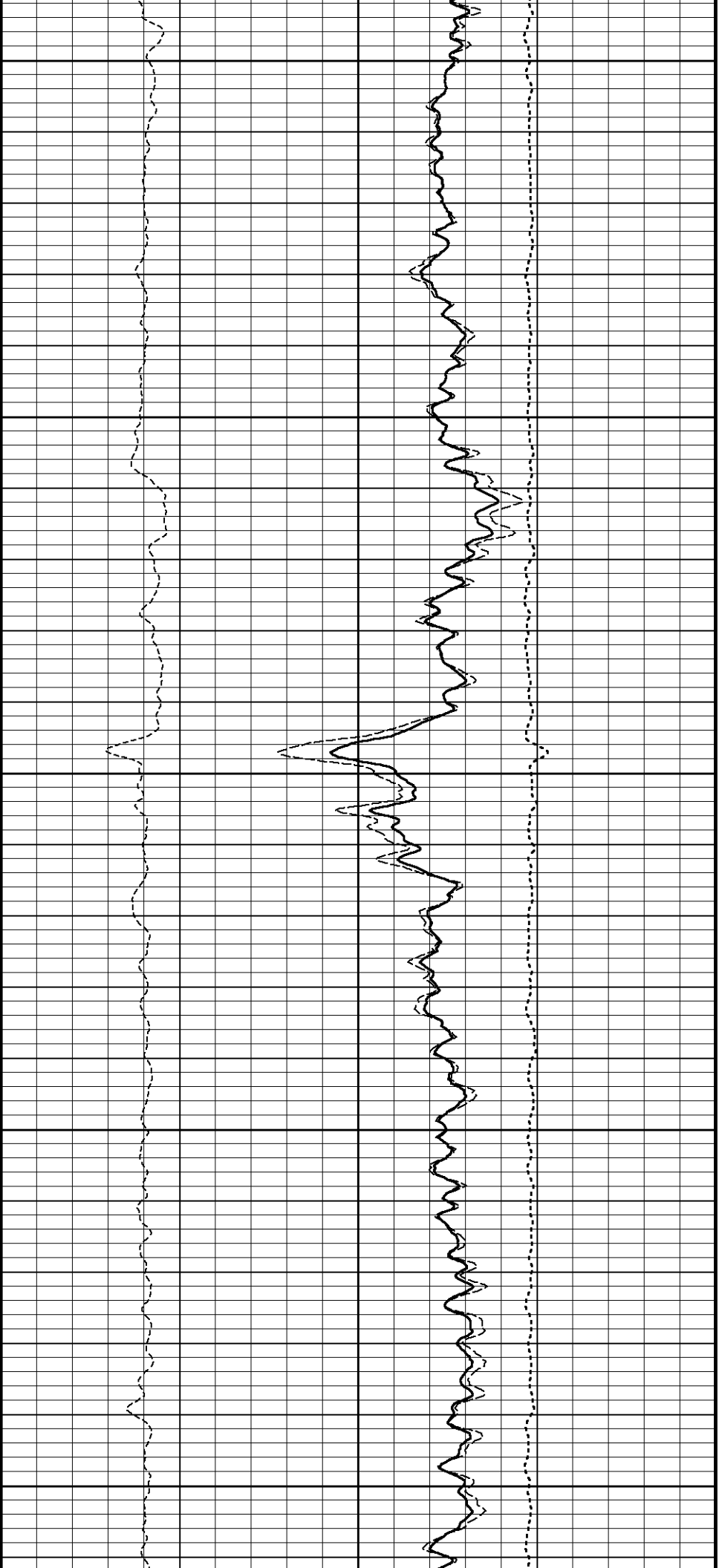
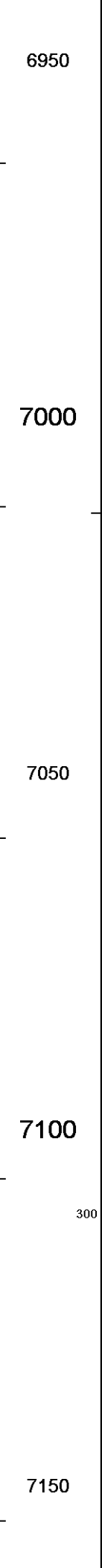
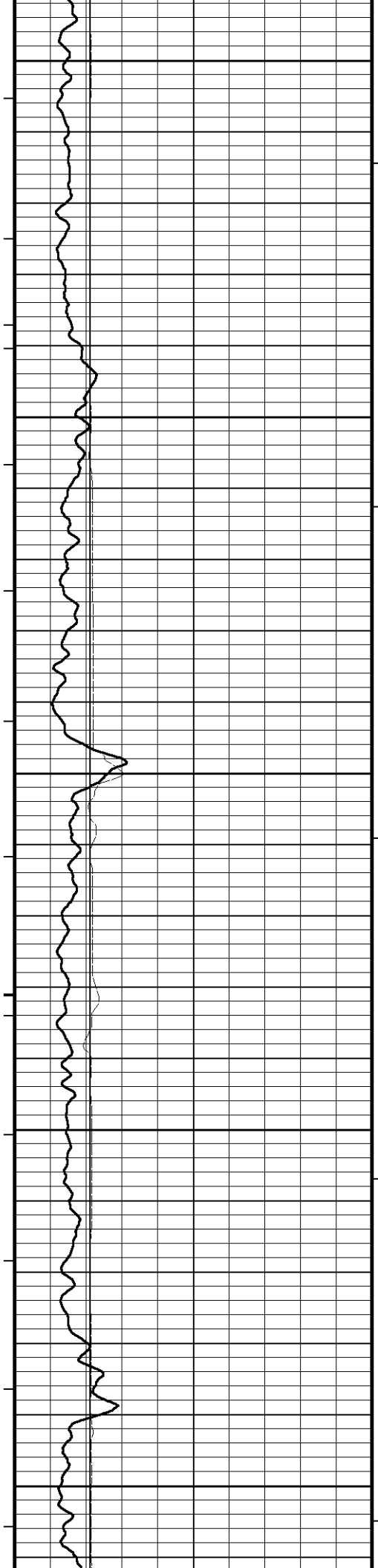


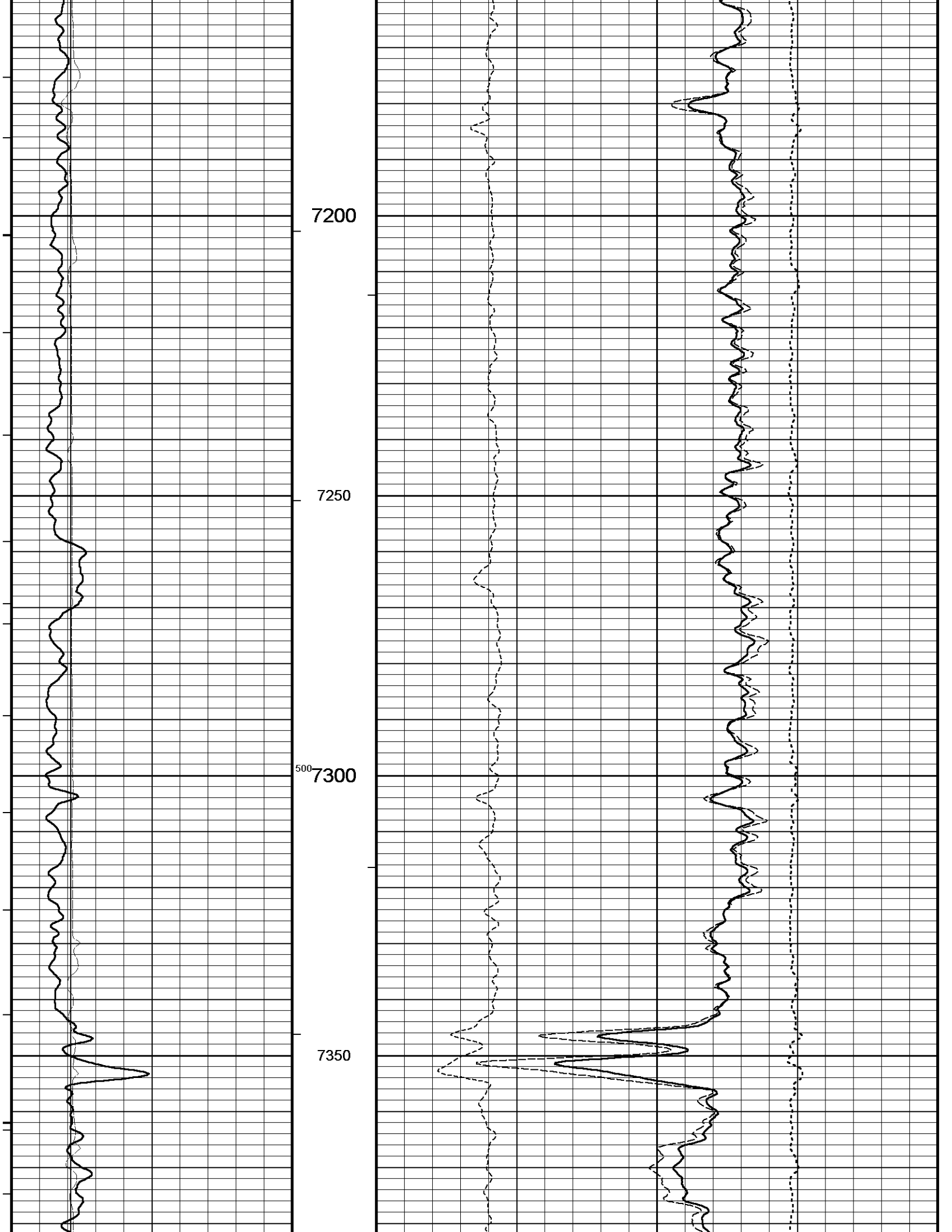


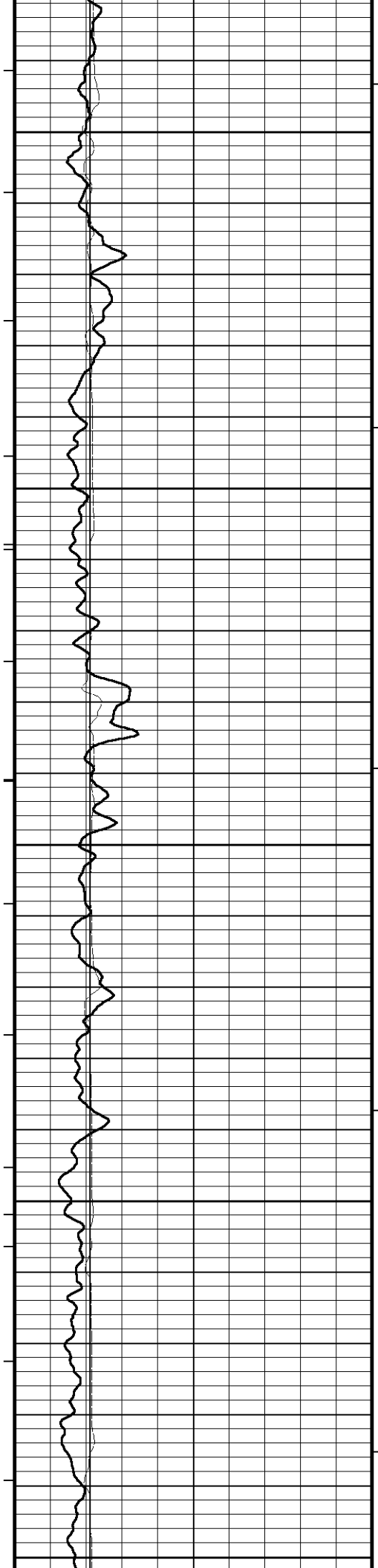












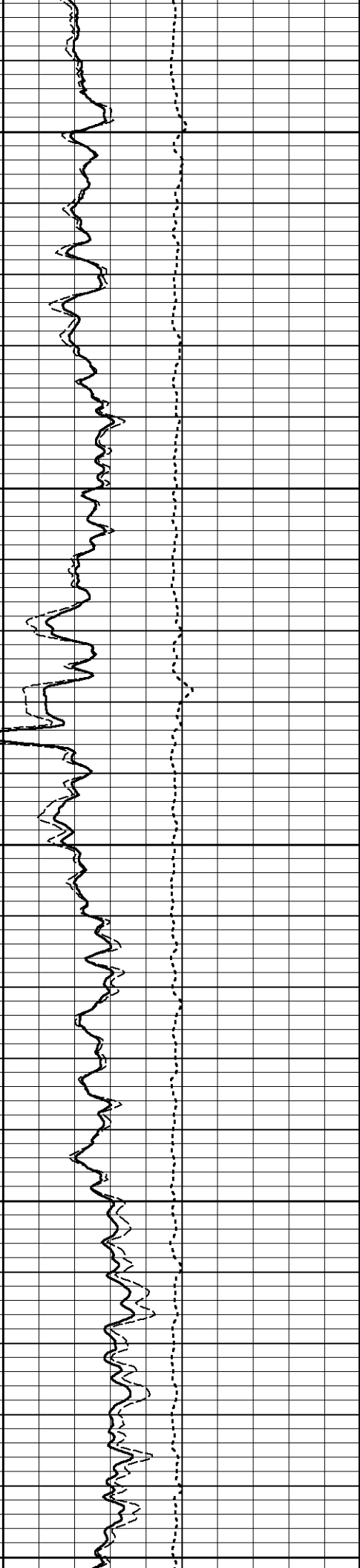
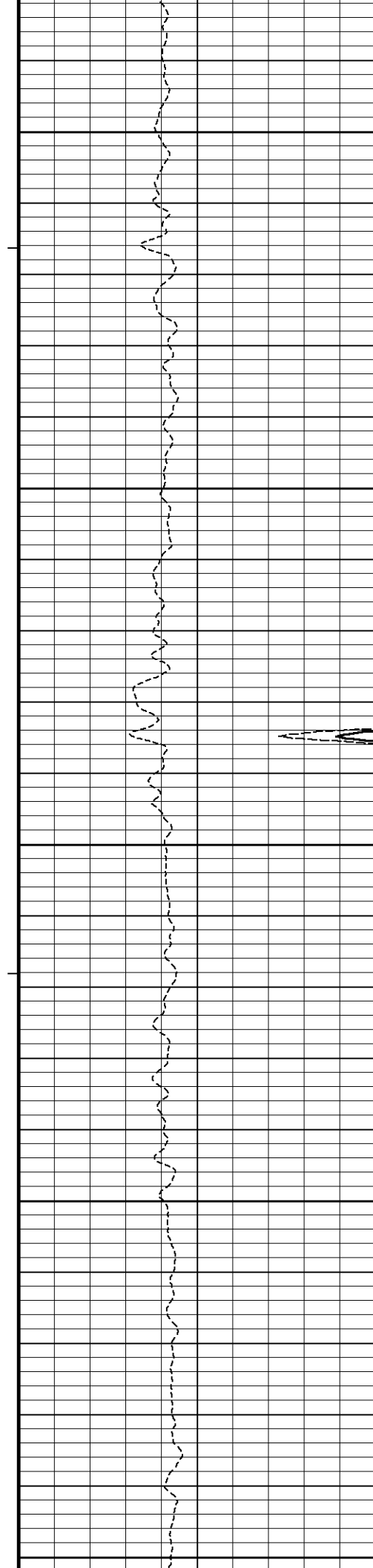
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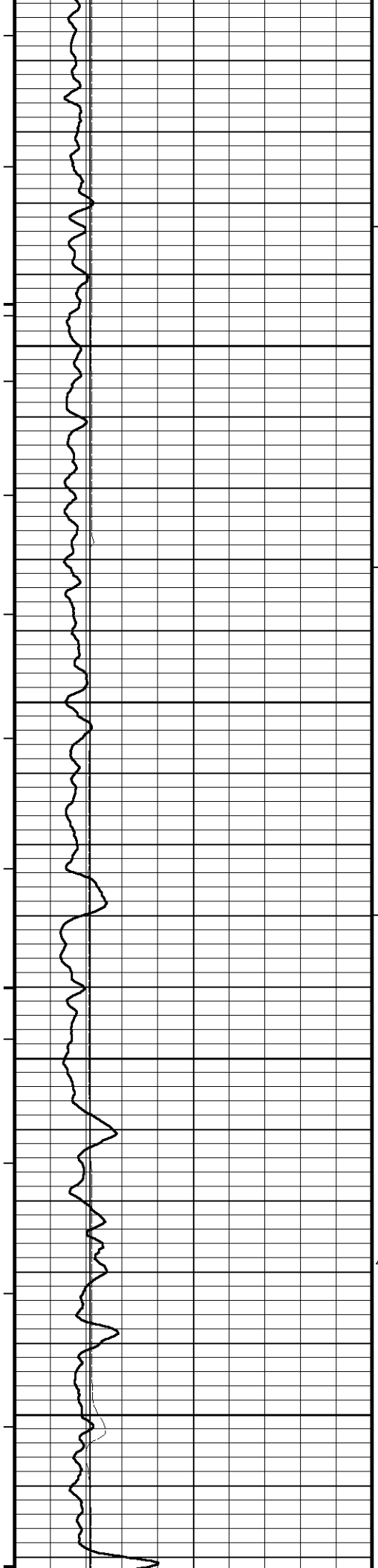
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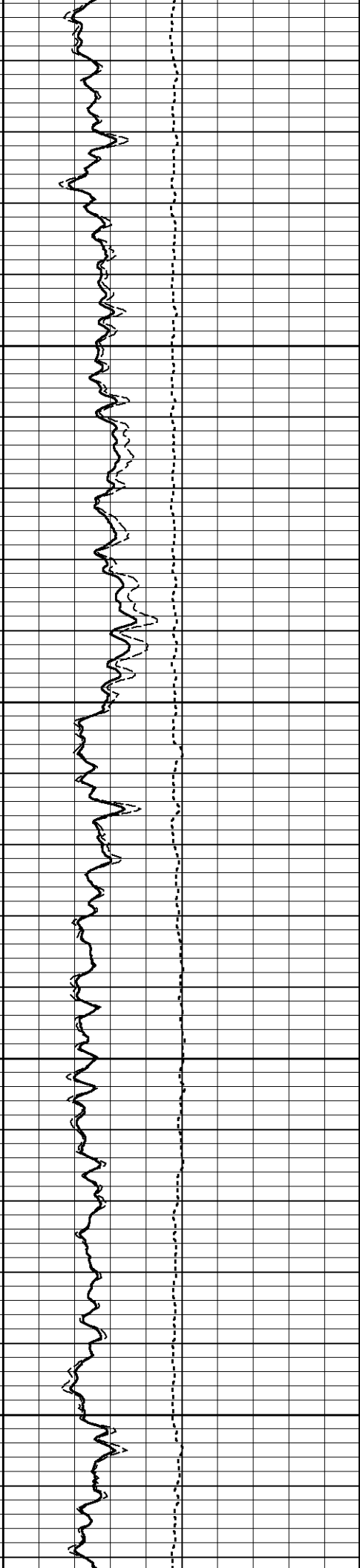
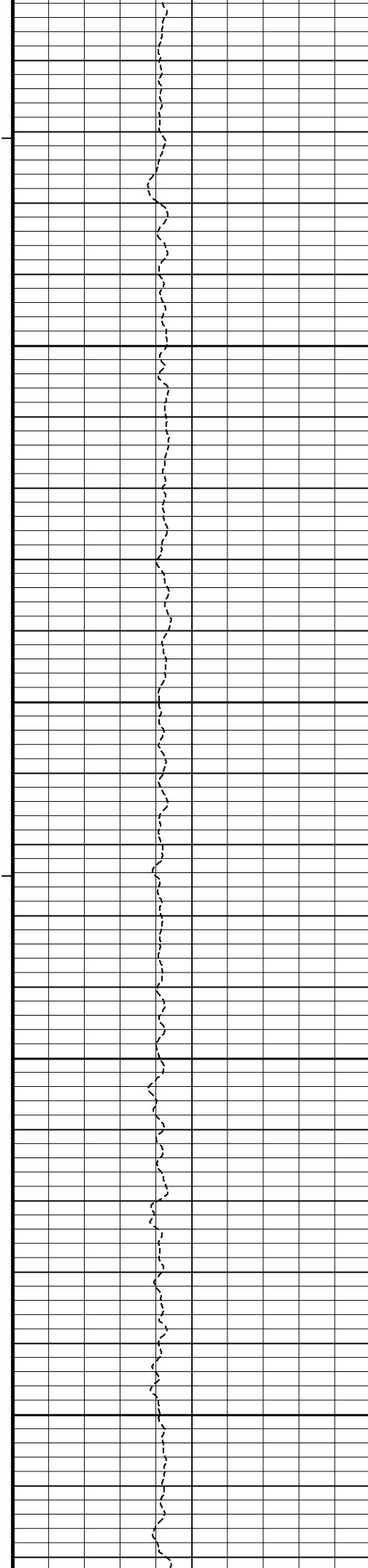
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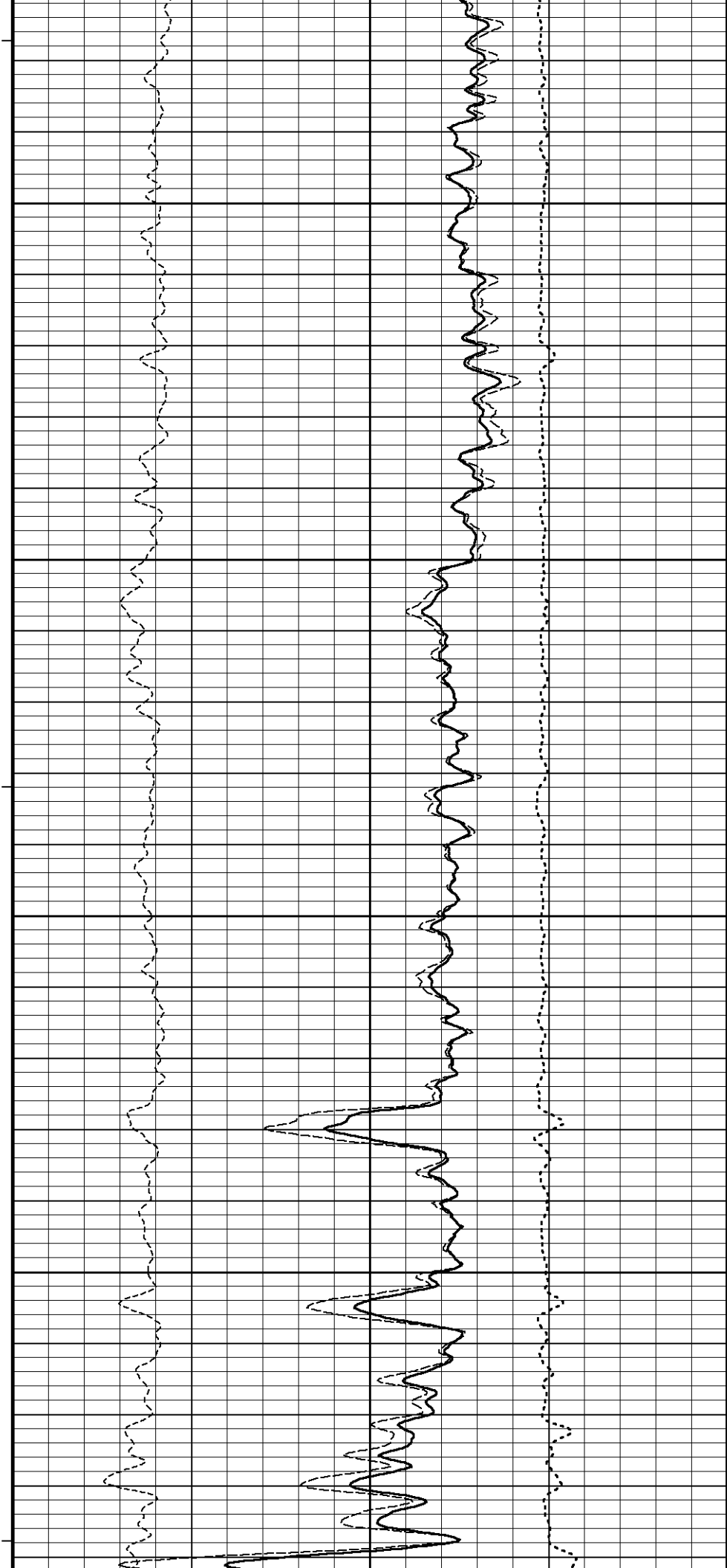
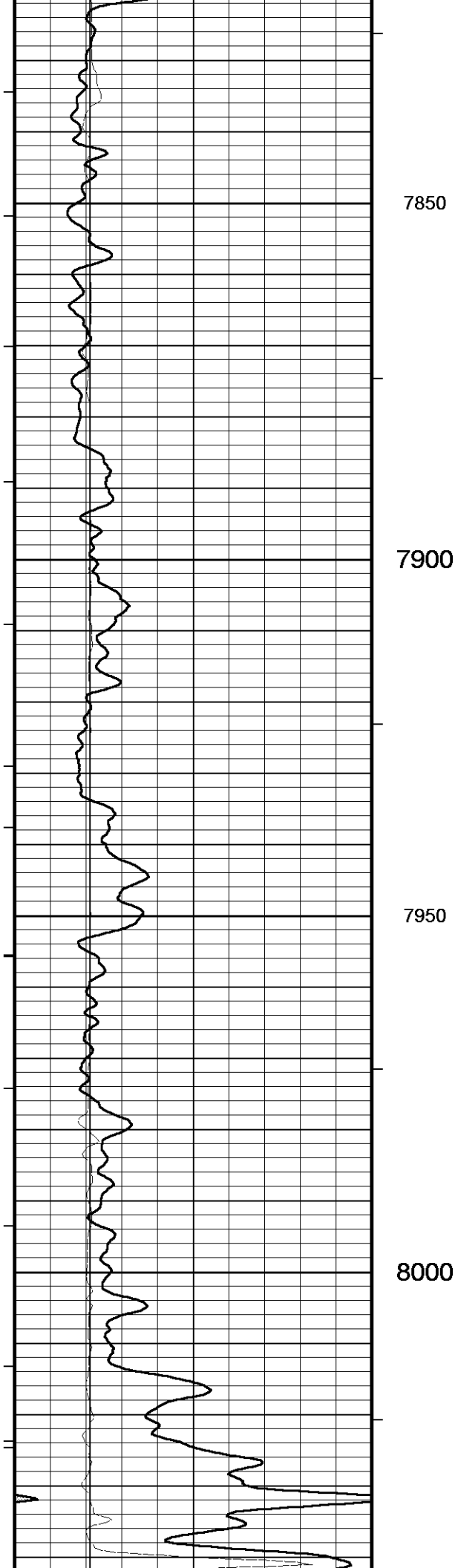
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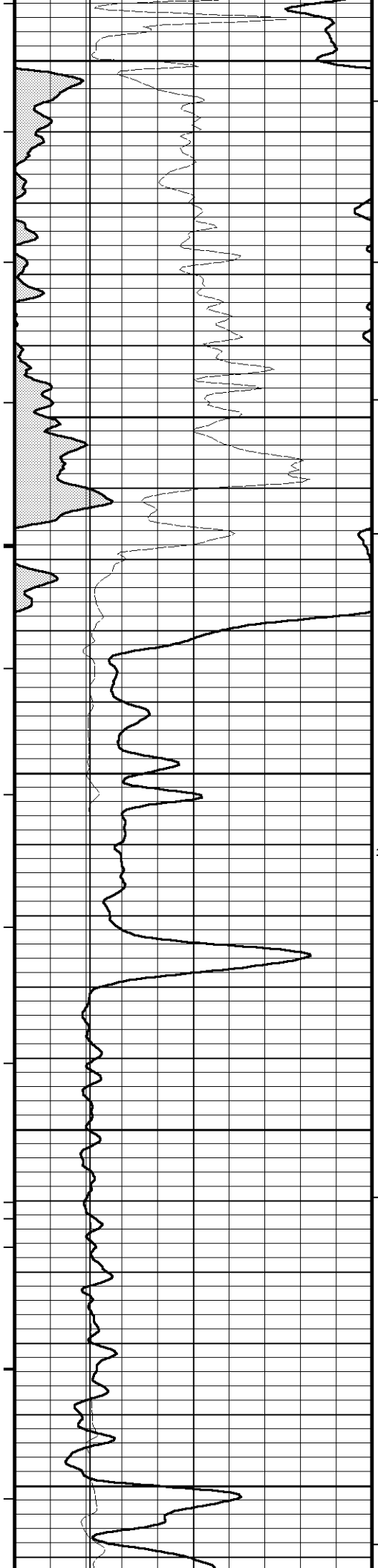




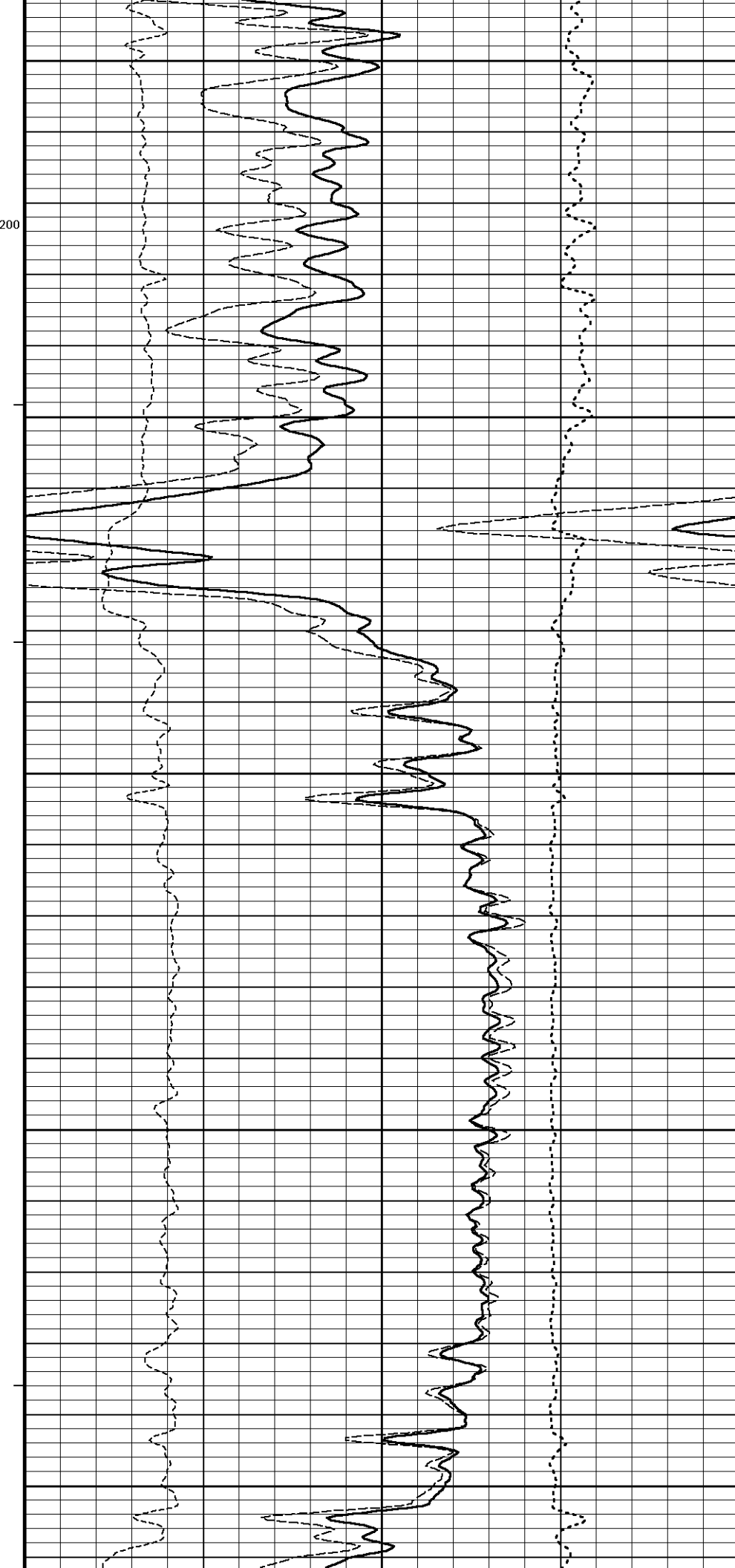
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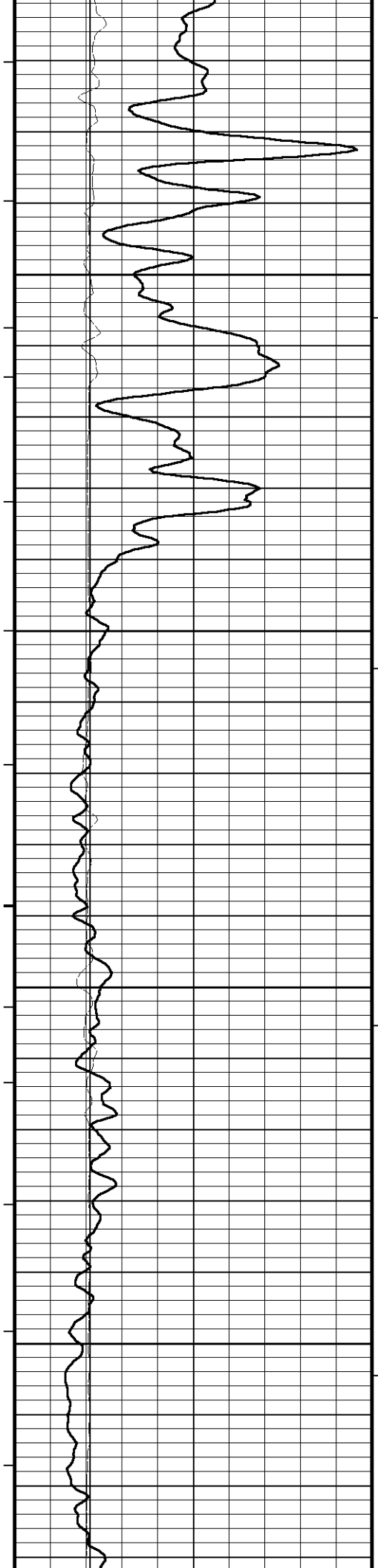






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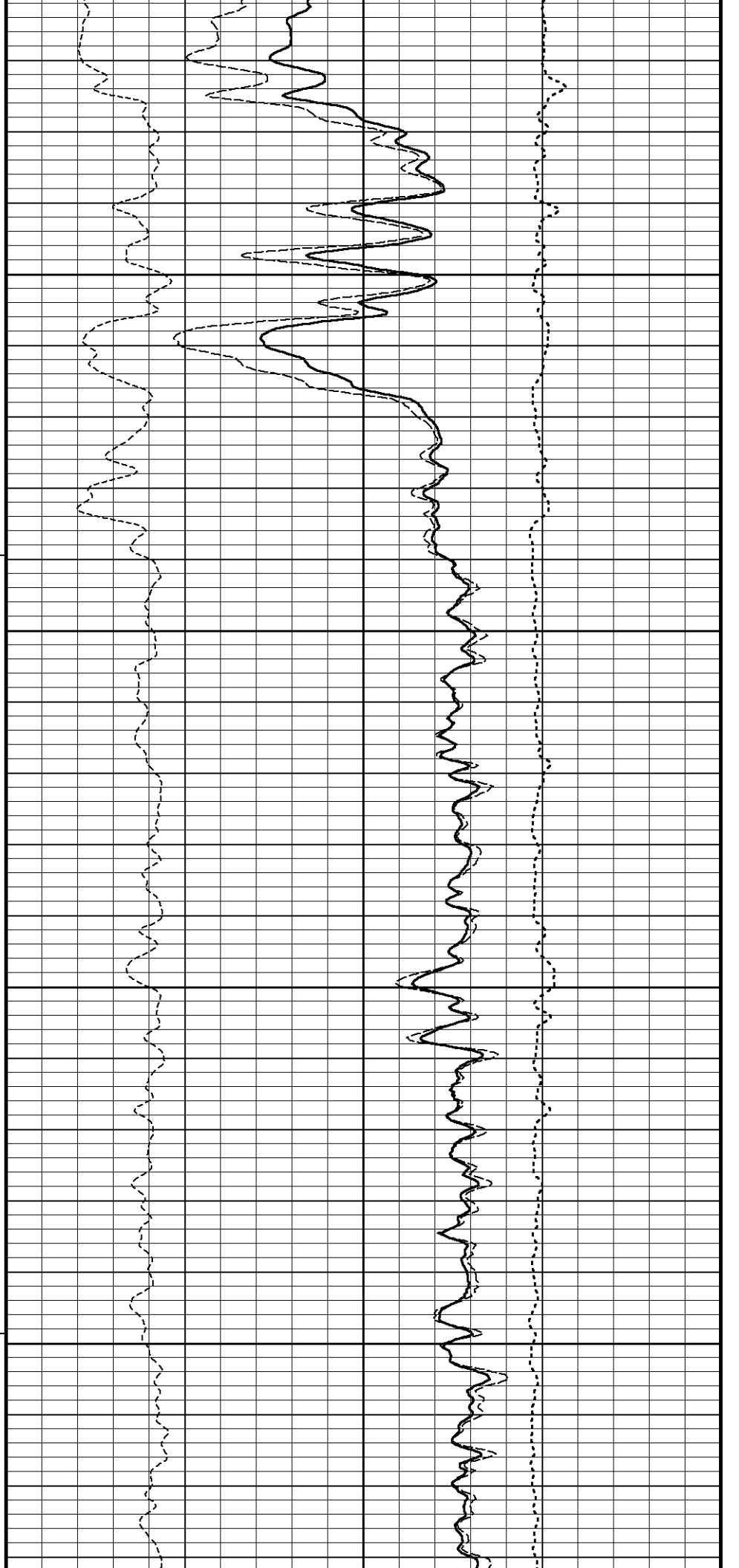


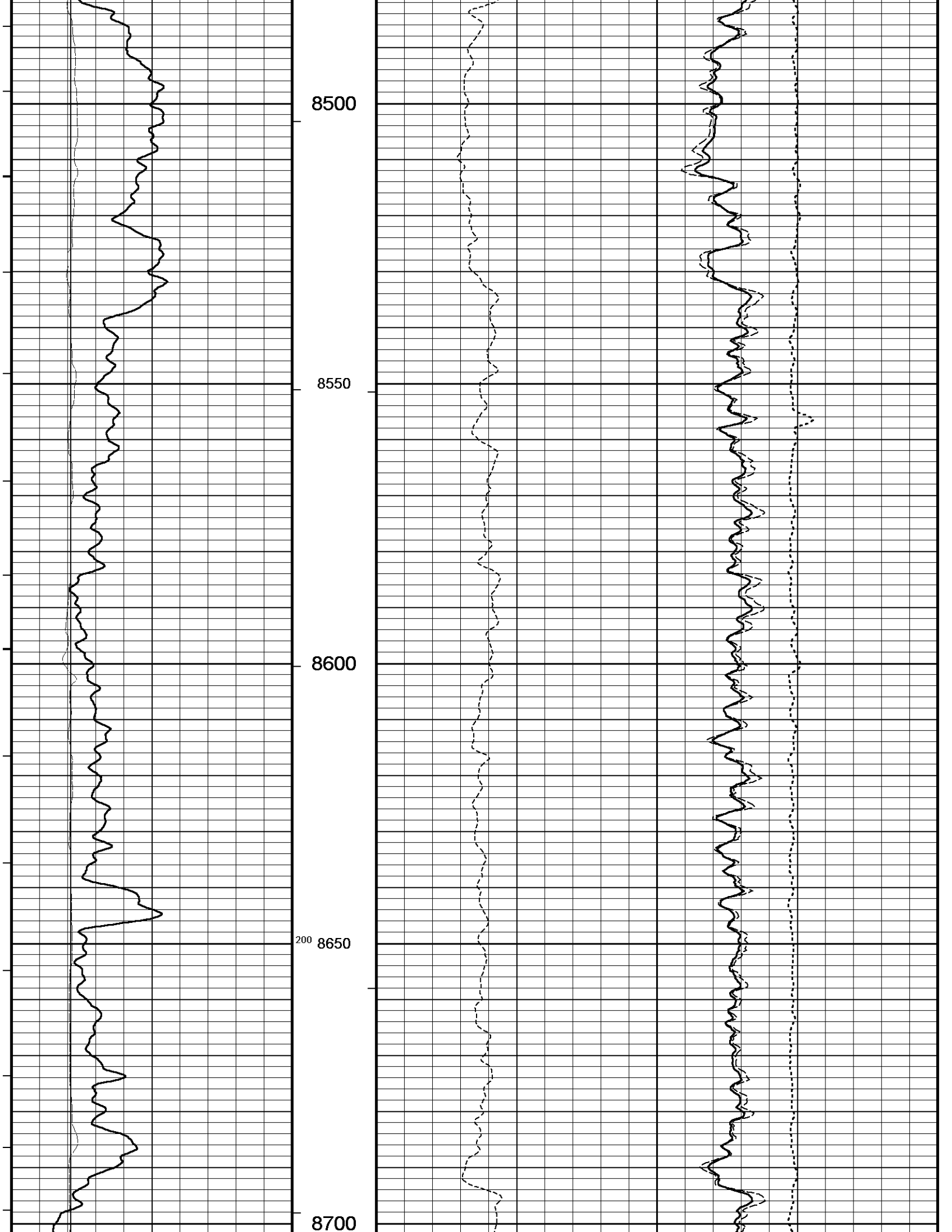
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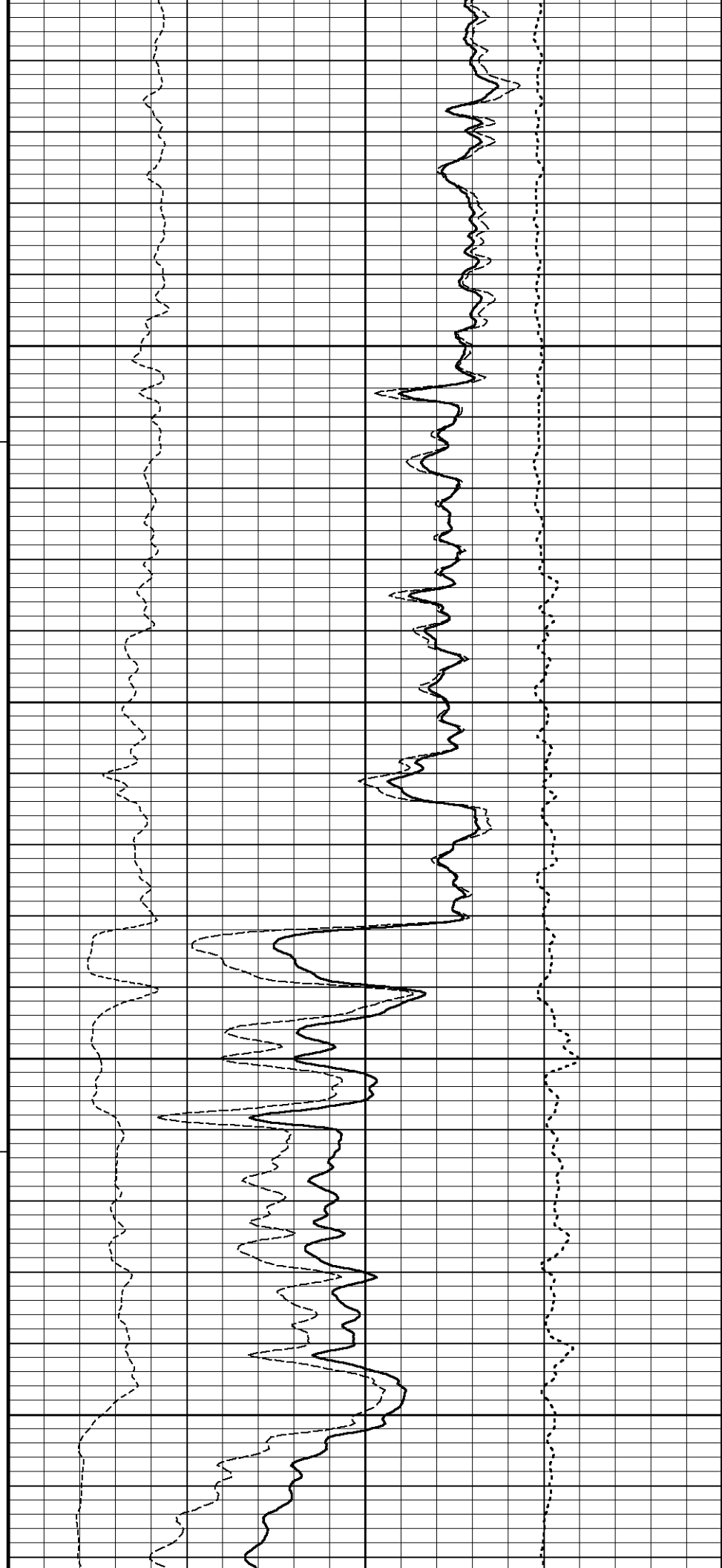
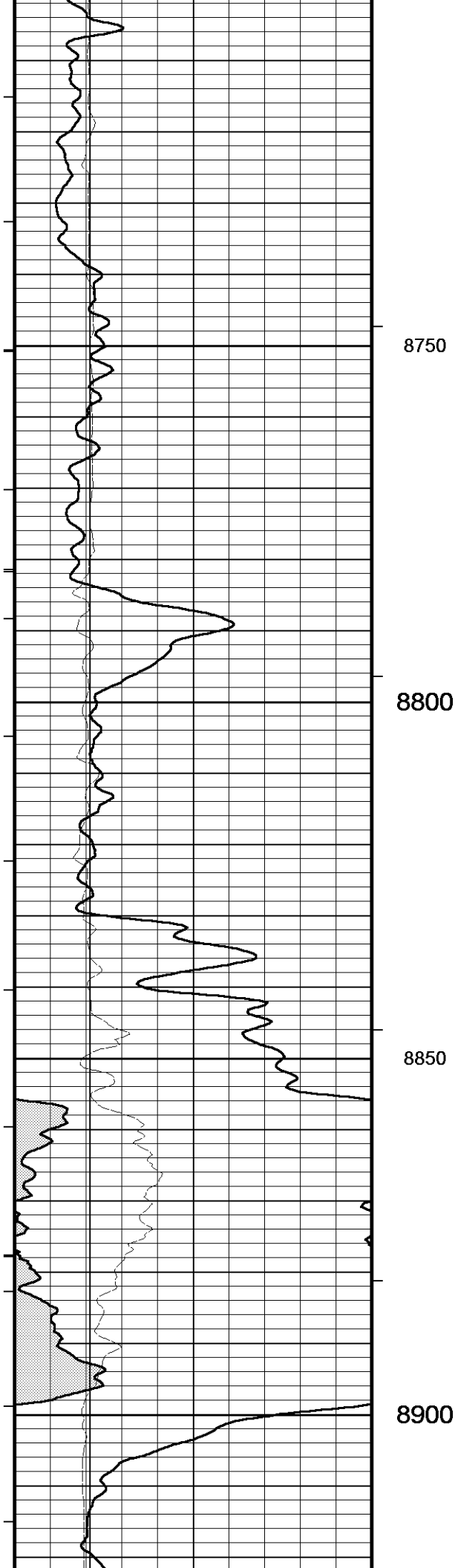
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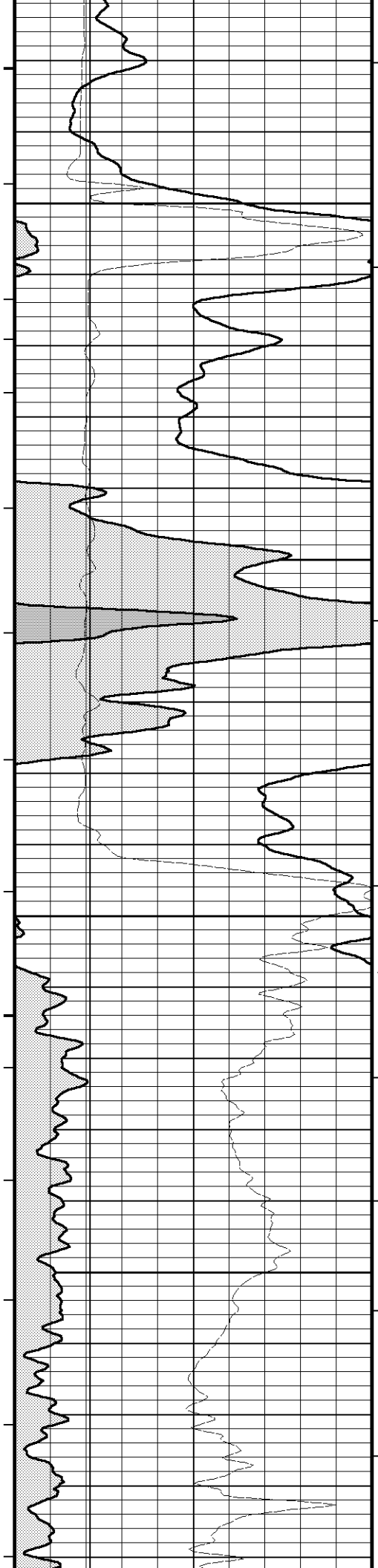
8400

8450









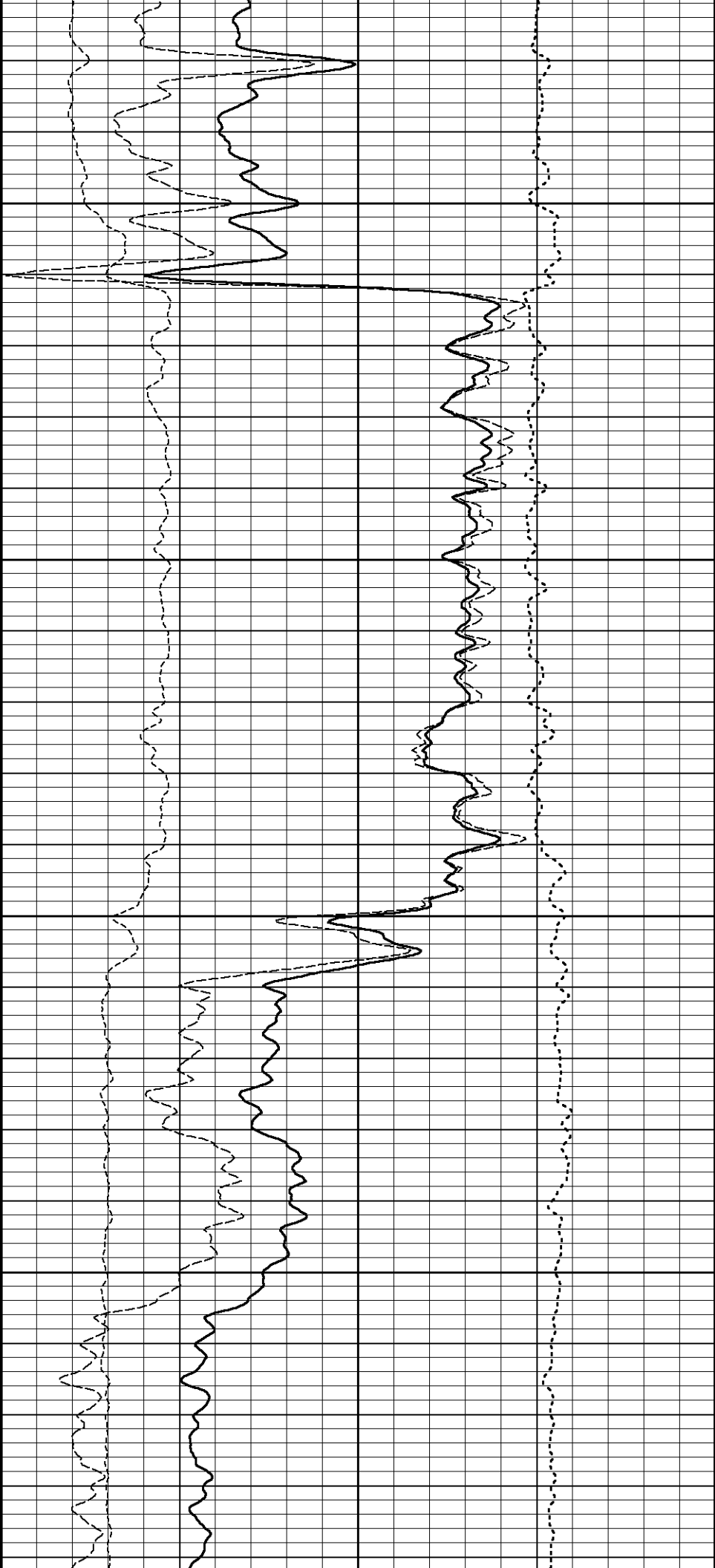
8950 100

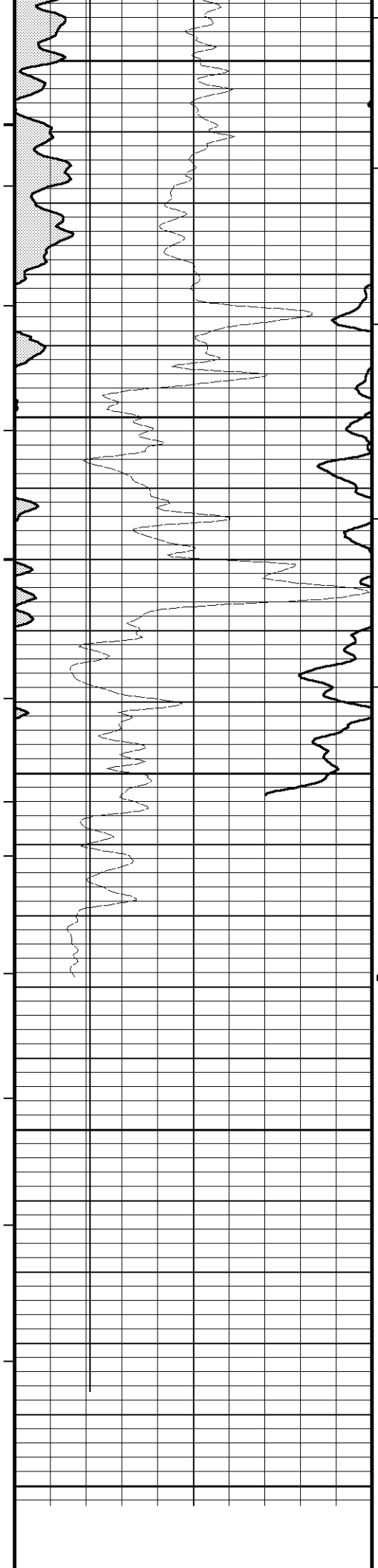
9000

9050

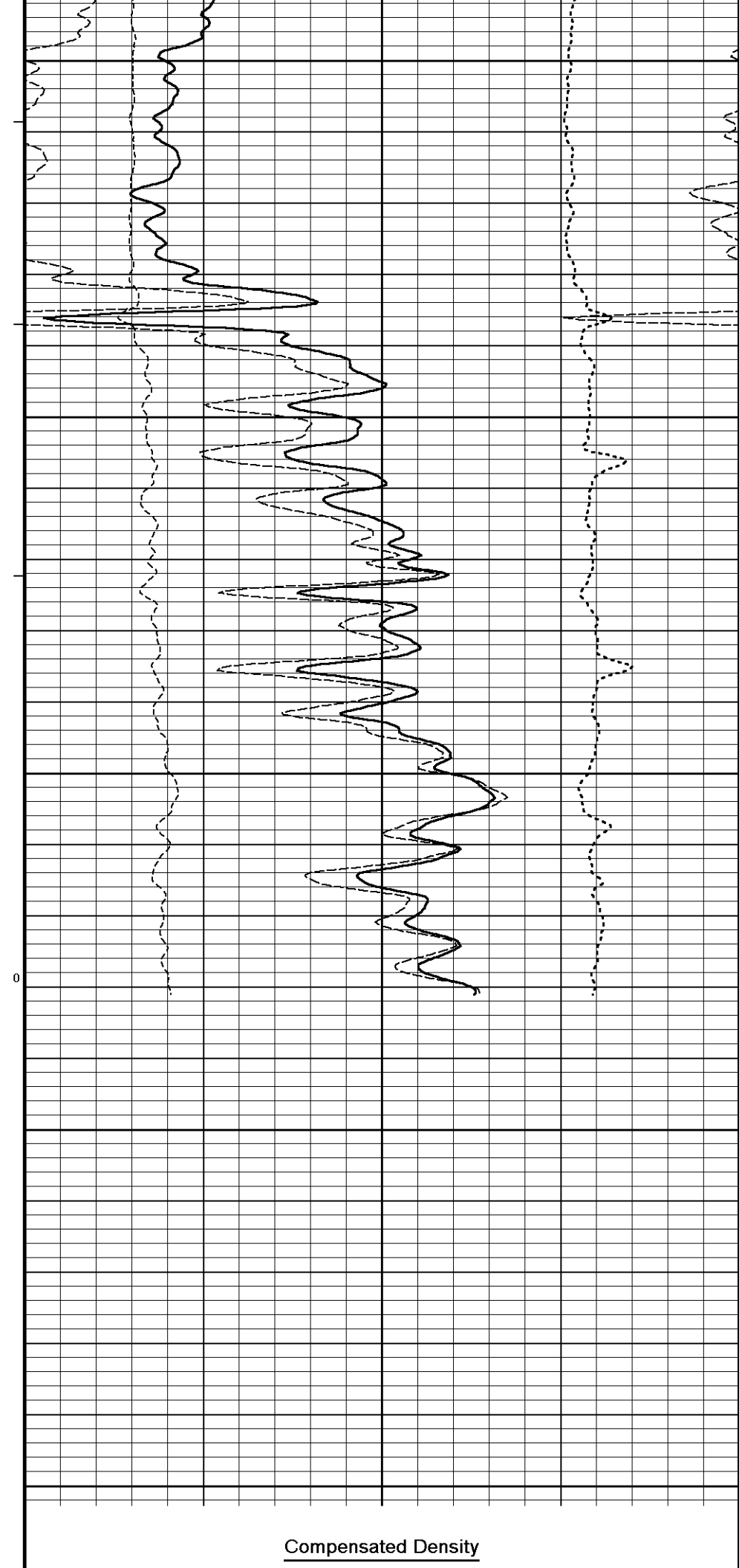
100

9100

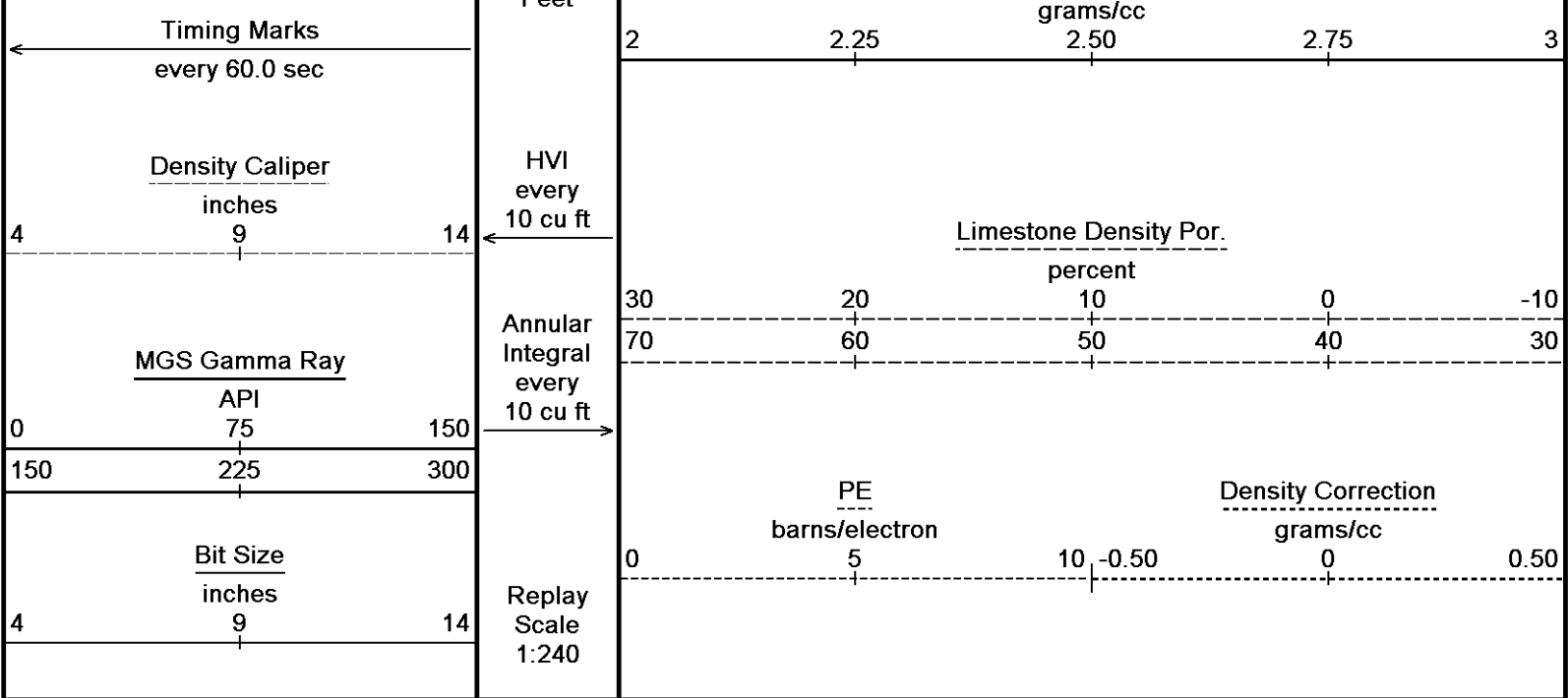




9150
9200
9250
0
9300
9350
Depth
In
Feet



Compensated Density



Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Data\Sandridge Elsey 1-1H\Elsey 1-1 rtap depth.dta
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779
 Plotted on 24-NOV-2012 10:02
 Recorded on 24-NOV-2012 07:55

5 INCH MAIN LOG

BEFORE SURVEY CALIBRATION

C:\Data\Sandridge Elsey 1-1H\Elsey 1-1 rtap depth.dta

General Constants All 000 Last Edited on 16-NOV-2012,12:24

General Parameters			
Mud Resistivity	0.140	ohm-metres	
Mud Resistivity Temperature	70.000	degrees F	
Water Level	0.000	feet	
Density/Neutron Processing	Wet Hole		
Hole/Annular Volume and Differential Caliper Parameters			
HVOL Method	Single Caliper		
HVOL Caliper 1	Density Caliper		
HVOL Caliper 2	N/A		
Annular Volume Diameter	4.500	inches	
Caliper for Differential Caliper	Density Caliper		
Rwa Parameters			
Porosity used	Base Density Porosity		
Resistivity used	Array Ind. One Res Rt		
RWA Constant A	0.610		
RWA Constant M	2.150		

Strain Gauge Constants MMS-E.B 157 Last Edited on 08-NOV-2012,09:49

Atmospheric Pressure	14.70	psi							
Serial Number	260625								
Calibration Date	17-Sep-2010								
Base Check Date									
Dead Weight Serial Number	0								
Dead Weight Gravitational Correction	1.0								
Temperature	75.0		150.0		250.0		350.0	degrees F	
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	
0.0	0.298	0.299	0.302	0.302	0.301	0.302	0.295	0.296	
3000.0	5.475	5.479	5.479	5.481	5.477	5.478	5.466	5.469	
6000.0	10.663	10.668	10.666	10.670	10.662	10.666	10.649	10.655	
9000.0	15.860	15.867	15.863	15.870	15.858	15.864	15.843	15.850	
12000.0	21.070	21.076	21.074	21.078	21.068	21.072	21.050	21.055	

15000.0	26.293	26.298	26.291	26.272
Gamma Calibration MGS-C.J 142				
		Measured	Calibrated (API)	Field Calibration on 15-NOV-2012 11:05
Background		141	104	
Calibrator (Gross)		1087	800	
Calibrator (Net)		946	696	

Gamma Constants MGS-C.J 142				
				Last Edited on 20-NOV-2012,09:37
Gamma Calibrator Number		036		
Mud Density		1.03	gm/cc	
Caliper Source for Processing		Bit Size		
Tool Position		Eccentred		
Concentration of KCl		0.00	kppm	

SP Calibration MGS-C.J 142				
		Measured	Calibrated (mV)	Field Calibration on 12-SEP-2012,21:30
Reference 1		100.0	100.0	
Reference 2		-100.0	-100.0	

High Resolution Temperature Calibration MGS-C.J 142				
		Measured	Calibrated(Deg F)	Field Calibration on 12-SEP-2012,21:30
Lower		0.00	0.00	
Upper		0.00	0.00	

High Resolution Temperature Constants MGS-C.J 142				
				Last Edited on 03-OCT-2012,15:14
Pre-filter Length		11		

Neutron Calibration MDN-B.J 391				
				Base Calibration on 16-OCT-2012 13:23
				Field Check on 20-NOV-2012,09:36
Base Calibration				
		Measured	Calibrated (cps)	
	Near	Far	Near	Far
	3208	97	3714	110
Ratio		33.073		33.764
Field Calibrator at Base				
			Calibrated (cps)	
			2191	3177
Ratio				0.690
Field Check				
			Calibrated (cps)	
			2240	3336
Ratio				

Neutron Constants MDN-B.J 391				
				Last Edited on 20-NOV-2012,09:36
Neutron Source Id		N1055		
Neutron Jig Number		N639		
Epithermal Neutron		No		
Caliper Source for Processing		Bit Size		
Stand-off		0.00	inches	
Mud Density		1.00	gm/cc	
Limestone Sigma		7.10	cu	
Sandstone Sigma		4.26	cu	
Dolomite Sigma		4.70	cu	
Formation Pressure Source		Constant Value		
Formation Pressure		0.00	kpsi	
Temperature Source		Constant Value		
Temperature		20.00	degrees F	
Mud Salinity		0.00	kppm	
Salinity Correction		Not Applied		
Formation Fluid Salinity Source		None		
Formation Fluid Salinity		N/A	kppm	
Barite Mud Correction		Not Applied		

Accelerometer Parameters MIE-A.J 233				
Date Of Last Accelerometer Calibration		22-NOV-2011,16:08		

	X Accelerometer	Y Accelerometer	Z Accelerometer
Slope	-1.106957	-1.101597	-1.096051
Offset	0.006667	0.007744	-0.005892

Accelerometer Constants MIE-A.J 233	Last Edited on 22-NOV-2011,16:08
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Accelerometer Calibrator Number		000			
Accelerometer Temperature Characterisation					
X Accelerometer					
Serial Number	1057				
Calibration Date	27-Apr-2011				
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	2.82020e-006	-3.02029e-008	1.94332e-010	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.77285e-004	1.89104e-007	1.67186e-009	
Y Accelerometer					
Serial Number	1073				
Calibration Date	02-May-2011				
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	-1.04005e-005	2.19294e-008	-1.31489e-010	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.69223e-004	2.39527e-007	9.12553e-010	
Z Accelerometer					
Serial Number	977				
Calibration Date	20-Jan-2011				
	B0	B1	B2	B3	
Bias(g)	0.00000e+000	1.86594e-005	1.00709e-008	3.83419e-011	
	SF0	SF1	SF2	SF3	
Scale Factor(mA/g)	3.00000e+000	2.74913e-004	2.75506e-007	1.29284e-009	

Imager Pad Check MIE-A.J 233	Field Check on
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Pad 1	Pad Not Tested	Pad 5	Pad Not Tested
Pad 2	Pad Not Tested	Pad 6	Pad Not Tested
Pad 3	Pad Not Tested	Pad 7	Pad Not Tested
Pad 4	Pad Not Tested	Pad 8	Pad Not Tested

Compact Micro Imager Constants MIE-A.J 233	Last Edited on 10-MAY-2012,08:37
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Sonde Configuration	Imager Mode	
Arm-Pad Kit	Normal Pads (12.25 in)	
Arm-Pad Kit Serial Number		
Centre Pad 1 Rotational Offset	0.00	degrees
Image/Borehole Ovality Reference	Azimuth of Pad 1	
Non Active Buttons	Omit	
Search Angle	30.00	degrees
Correlation Interval	3.28	feet
Correlation Step	1.64	feet
Current Offset	0.0000	mAmp
Squasher Start	N/A	mAmp
Image Processing	Enabled	

Caliper Calibration MIE-A.J 233	Base Calibration on 22-NOV-2011 16:05
	Field Calibration on 30-MAY-2012 14:18

Base Calibration					
Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)		
1	25479	25668	5.96		
2	36118	36010	7.97		
3	45775	45499	9.84		
4	57747	57059	11.91		
5	0	0	0.00		
Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	24613	24005	24629	24615	5.96
2	33696	32386	33383	33850	7.97
3	41885	40590	41925	42007	9.84
4	51911	50551	51787	51761	11.91
5	0	0	0	0	0.00

Field Calibration

Measured Pads 1-5 Caliper(in) 6.32		Measured Pads 3-7 Caliper(in) 6.07		Actual Caliper(in) 6.00	
Measured Pad 2 Caliper(in) 3.16		Measured Pad 4 Caliper(in) 2.92		Measured Pad 6 Caliper(in) 2.93	
				Measured Pad 8 Caliper(in) 3.13	
				Actual Caliper(in) 6.00	
Caliper Constants MIE-A.J 233				Last Edited on 22-NOV-2011,16:06	
Caliper Difference for BRKT		0.120		inches	
Magnetometer Parameters MIE-A.J 233					
Date Of Last Magnetometer Calibration		22-NOV-2011,16:09			
X Magnetometer		Y Magnetometer		Z Magnetometer	
Slope	-1.000000	-1.002341		-0.997182	
Offset	0.005318	-0.018938		0.000387	
Magnetometer Constants MIE-A.J 233				Last Edited on	
Magnetometer Calibrator Number		000			
Navigation Constants MIE-A.J 233				Last Edited on 30-MAY-2012,14:22	
Magnetic Declination		4.18		degrees East	
Induction Calibration MAI-A.A 170				Base Calibration on 02-FEB-2012 17:42 Field Check on 20-NOV-2012 09:27	
Base Calibration					
Test Loop Calibration		Measured		Calibrated (mmho/m)	
Channel	Low	High	Low	High	
1	17.7	487.1	9.3	966.2	
2	6.2	384.7	7.6	821.4	
3	3.7	266.1	5.2	566.0	
4	2.2	136.5	2.6	279.2	
Array Temperature		72.1		Deg F	
Channel		Base Check (mmho/m)		Field Check (mmho/m)	
	Low	High	Low	High	
1			10.9	3753.7	
2			29.4	3530.1	
3			27.1	2997.8	
4			18.4	2043.1	
Deep			15.4	1906.0	
Medium			40.7	3982.0	
Shallow			45.6	5291.7	
Array Temperature				57.9	Deg F
Induction Constants MAI-A.A 170				Last Edited on 24-NOV-2012,09:22	
Induction Model		RtAP-WBM			
Caliper for Borehole Corr.		Bit Size			
Hole Size for Borehole Correction		N/A		inches	
Tool Centred		No			
Stand-off Type		Fins			
Stand-off		0.50		inches	
Number of Fins on Stand-off		6.0000			
Stand-off Fin Angle		60.00		degrees	
Stand-off Fin Width		0.5000		inches	
Borehole Corr. Rm Source		Temperature Corr			
Temp. for Rm Corr.		MGS External Temperature			
Squasher Start		0.0060		mhos/metre	
Squasher Offset		N/A		mhos/metre	
Borehole Normalisation					
DRM1	0.0000	DRC1		0.0000	
DRM2	0.0000	DRC2		0.0000	
MRM1	0.0000	MRC1		0.0000	
MRM2	0.0000	MRC2		0.0000	
SRM1	0.0000	SRC1		0.0000	
SRM2	0.0000	SRC2		0.0000	

Calibration Site Corrections

Channel 1	0.00	mmhos/metre
Channel 2	0.00	mmhos/metre
Channel 3	0.00	mmhos/metre
Channel 4	0.00	mmhos/metre

Apparent Porosity and Water Saturation Constants

Archie Constant (A)	1.00	
Cementation Exponent (M)	2.00	
Saturation Exponent (N)	2.00	
Saturation of Water for Apor	100.00	percent
Resistivity of Water for Apor and Sw	0.05	ohm-m
Resistivity of Mud Filtrate for Sw	0.00	ohm-m
Source for Rt	0.00	
Source for Rxo	0.00	

High Resolution Temperature Calibration MAI-A.A 170

Field Calibration on 15-FEB-2012 01:37

	Measured	Calibrated(Deg F)
Lower	1.00	1.00
Upper	100.00	100.00

High Resolution Temperature Constants MAI-A.A 170

Last Edited on

Pre-filter Length	11
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Caliper Calibration MPD-C.J 394

Base Calibration on 30-OCT-2012 12:18

Field Calibration on 15-NOV-2012 10:50

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17118	4.02
2	25406	6.00
3	33827	8.03
4	42304	10.02
5	51184	12.01
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.96	6.00

Photo Density Calibration MPD-C.J 394

Base Calibration on 30-OCT-2012 12:42

Field Check on 20-NOV-2012 09:36

Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	51787	25714	59869	31110
Reference 2	21380	2493	24557	2522

Field Check at Base

1067.9 1311.0

Field Check

1066.1 1315.1

PE Calibration

Base Calibration	Measured			Calibrated
	WS	WH	Ratio	Ratio
Background	191	948		
Reference 1	21057	51608	0.412	0.369
Reference 2	5950	21256	0.284	0.271

Field Check at Base

191.2 947.9

Field Check

190.3 947.3

Density Constants MPD-C.J 394

Last Edited on 20-NOV-2012,09:29

Density Source Id	250	
Nylon Calibrator Number	633	
Aluminium Calibrator Number	633	
Density Shoe Profile	4 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.00	gm/cc
Mud Density Z/A Multiplier	1.11	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Matrix Density (gm/cc)	Depth (ft)	
2.71	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	
0.00	0.00	

DOWNHOLE EQUIPMENT

C:\Data\Sandridge Elsey 1-1H\Elsey 1-1 rtap depth.dta

Shuttle Running Tool 3.5")
SRT-A.A 69 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 479 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS -Empty Battery
MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in

MBS-Empty Battery
MLK-A 3 LG: 16.31 ft WT: 30.9 lb OD: 2.24 in



MBS-G.A 200v Compact Battery Sub
MBS-G.A 113 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B
MMS-E.B 157 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.
MTI-B.A 76 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
MGS-C.J 142 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

83.57 ft GRGM - MGS Gamma Ray
81.59 ft GSXT - MGS External Temperature

Compact Collar Locator
MCL-B.J 63 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 474 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.B Compact Swivel Head Adaptor
SHA-J.B 458 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 277 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

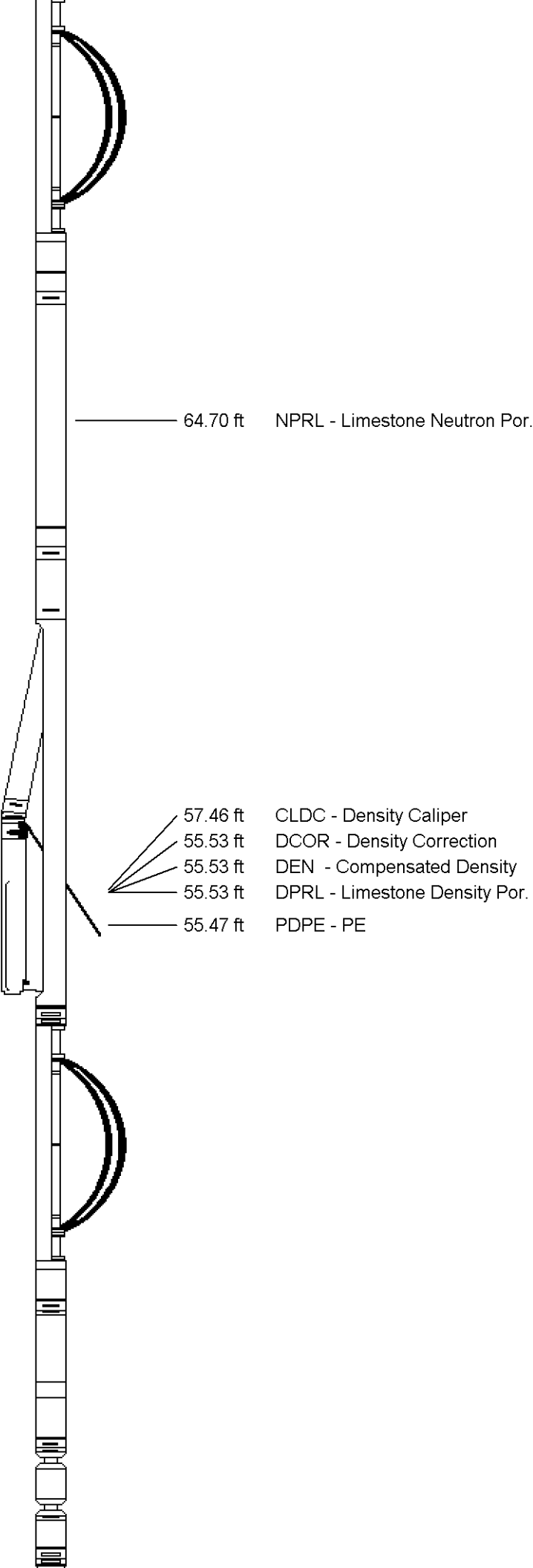
Compact Neutron
MDN-B.J 391 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
MPD-C.J 394 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
MIS-D.A 310 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
SHA-J.A 434 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
SKJ-E.B 472 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

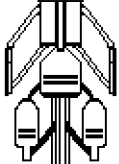


MIS-D.B Compact Inline Bowspring sub
MIS-D.B 606 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



Compact MMI Memory Section
MIM-B.A 251 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

Compact MMI Electrode Section
MIE-A.J 233 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in



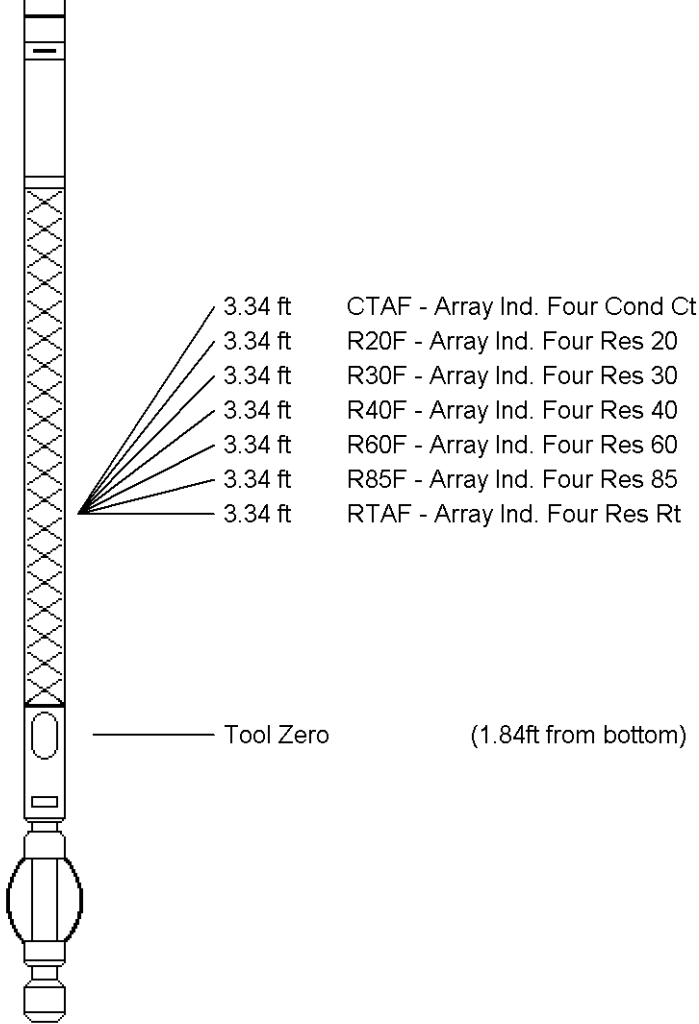
MIS-D.B Compact Inline Bowspring sub
MIS-D.B 608 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in



MIS-E.B Compact Inline Standoff sub
MIS-E.B 577 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in



Compact Induction
MAI-A.A 170 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in



Total Length: 149.33 ft Weight: 903.9 lb All measurements relative to tool zero.

COMPANY	Sandridge Energy
WELL	Elsey 3025 1-1H
FIELD	Sabine Pass
PROVINCE/COUNTY	Clark
COUNTRY/STATE	U.S.A. / Kansas

Elevation Kelly Bushing	2585.00	feet	First Reading	9264.00	feet
Elevation Drill Floor	2585.00	feet	Depth Driller	9350.00	feet
Elevation Ground Level	2567.00	feet	Depth Logger	9350.00	feet



CML MESSENGER SHUTTLE
COMPACT PHOTO DENSITY
DUAL SPACED NEUTRON