

DUAL INDUCTION LOG

Company	GRAND MESA OPERATING COMPANY	Company	GRAND MESA OPERATING COMPANY
Well	BIRKET TRUST #1-15	Well	BIRKET TRUST #1-15
Field	UNNAMED	Field	UNNAMED
County	RENO	County	RENO
State	KANSAS	State	KANSAS
Location:	API # : 15-155-21790-0000 1270' FNL & 2310' FEL S2 - SW - NW - NE	Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL Elevation 1640 KELLY BUSHING 5' A.G.L KELLY BUSHING
	SEC 15 TWP 24S RGE 8W		Elevation K.B. 1645 D.F. 1643 G.L. 1640
Date	8/17/22		
Run Number	ONE		
Depth Driller	4210		
Depth Logger	4211		
Bottom Logged Interval	4209		
Top Log Interval	00		
Casing Driller	8 5/8" @ 134		
Casing Logger	134		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.1/66		
pH / Fluid Loss	10.0/9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950 @ 75F		
Rmf @ Meas. Temp	.713 @ 75F		
Rmc @ Meas. Temp	1.14 @ 75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.604 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	10:00 A.M.		
Maximum Recorded Temperature	118F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	KEITH REAVIS		

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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

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:

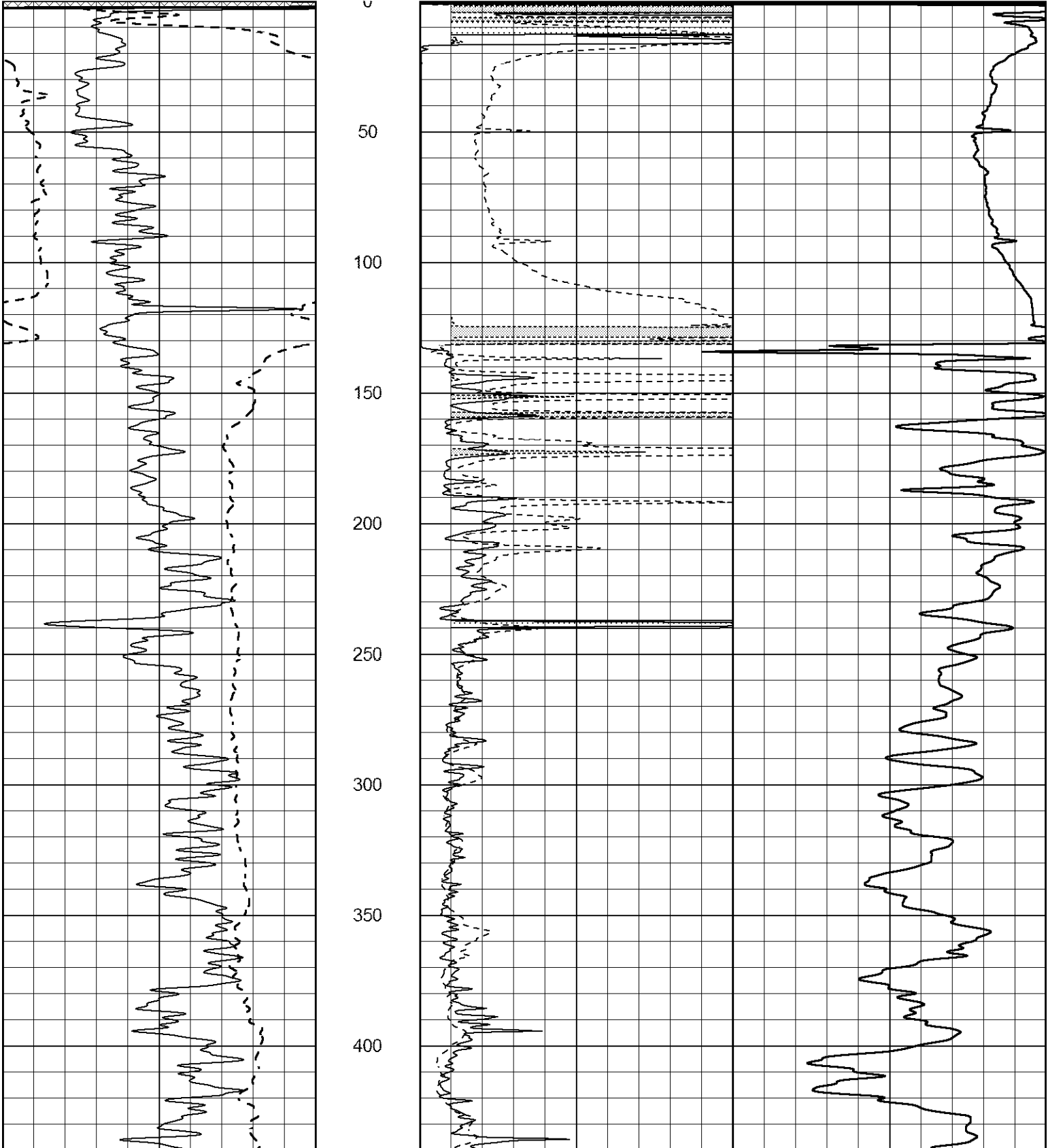
ABBYVILE, KANSAS SOUTH TO TRAIL WEST ROAD, EAST TO SEGO ROAD, 1/4 SOUTH WEST INTO

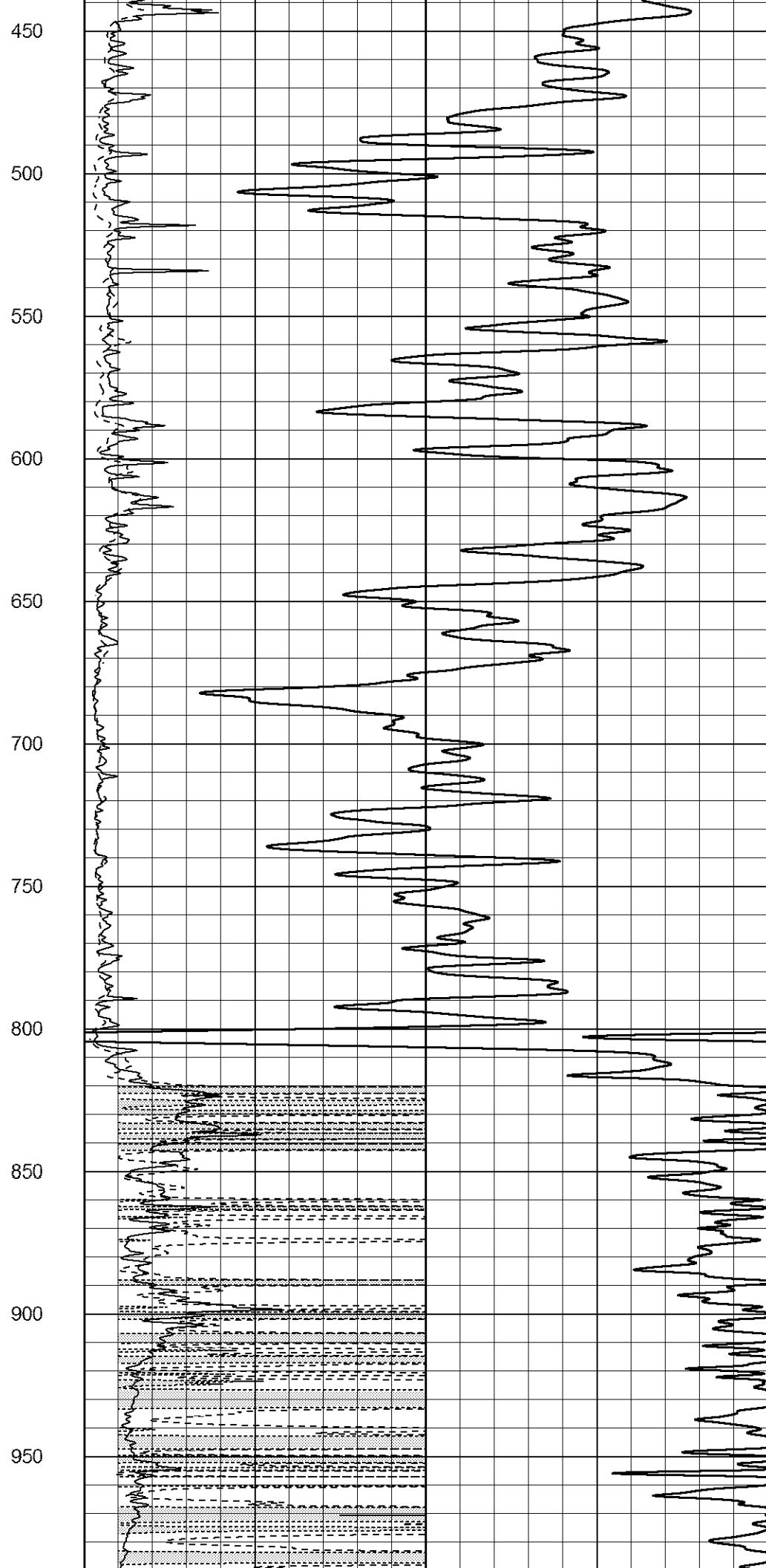
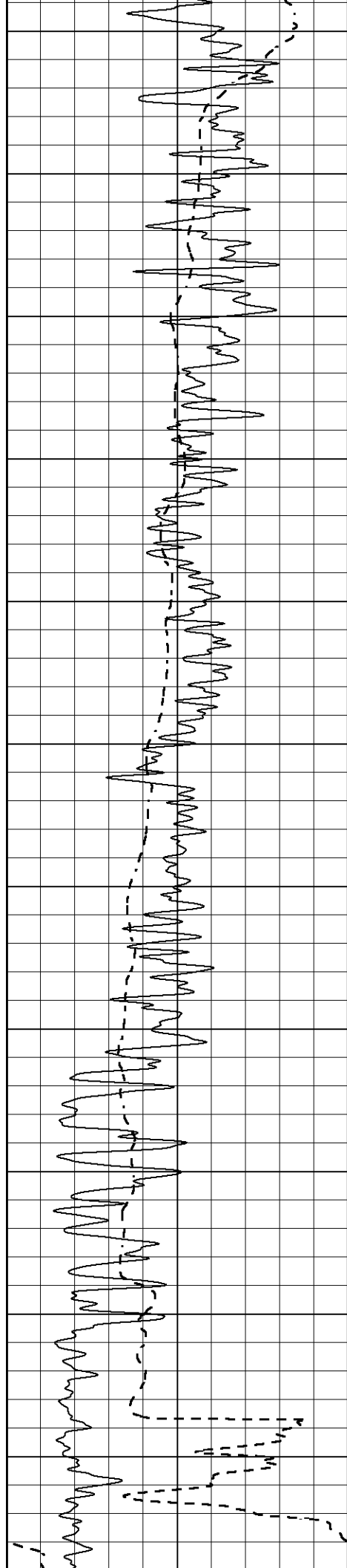


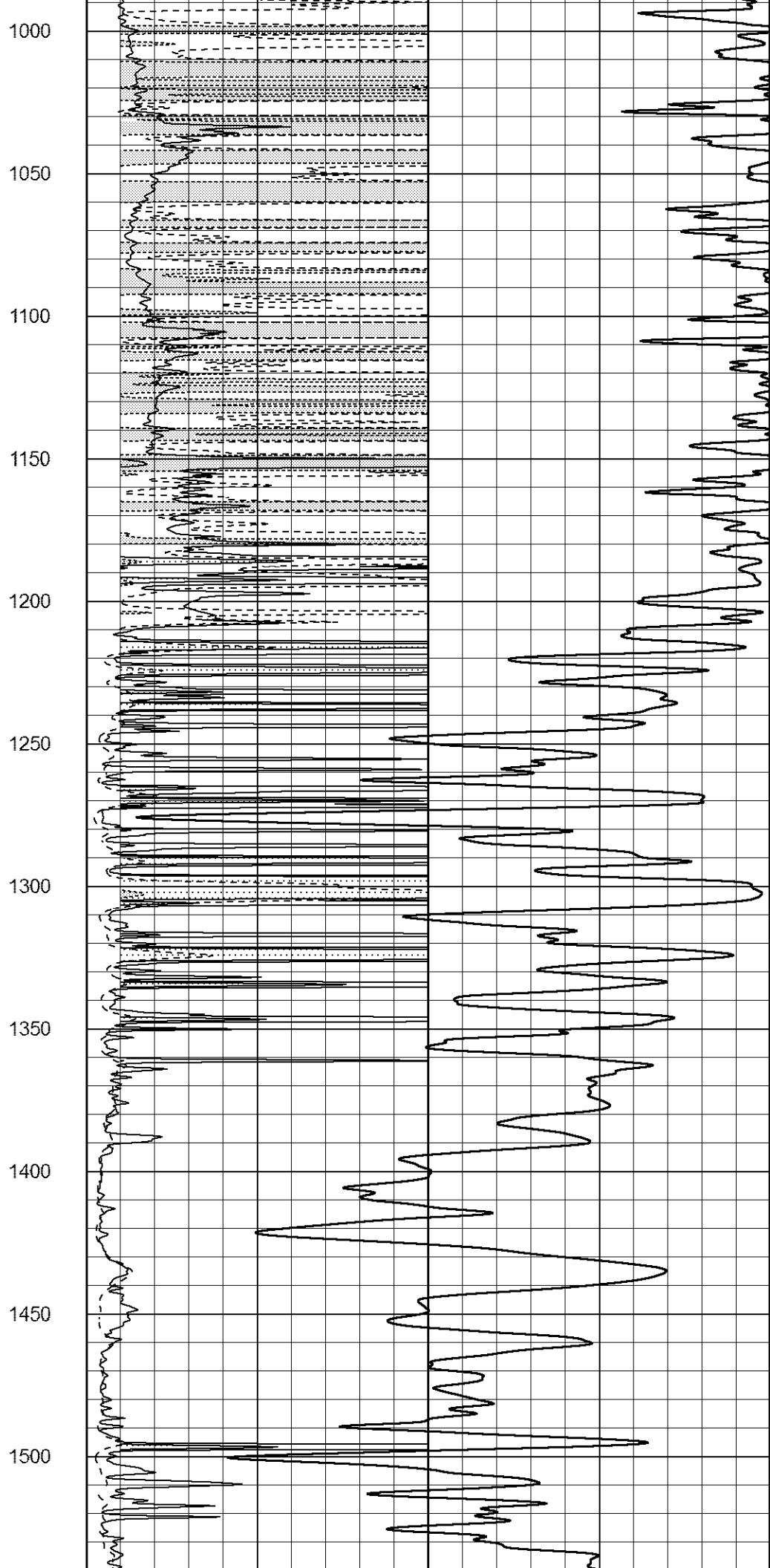
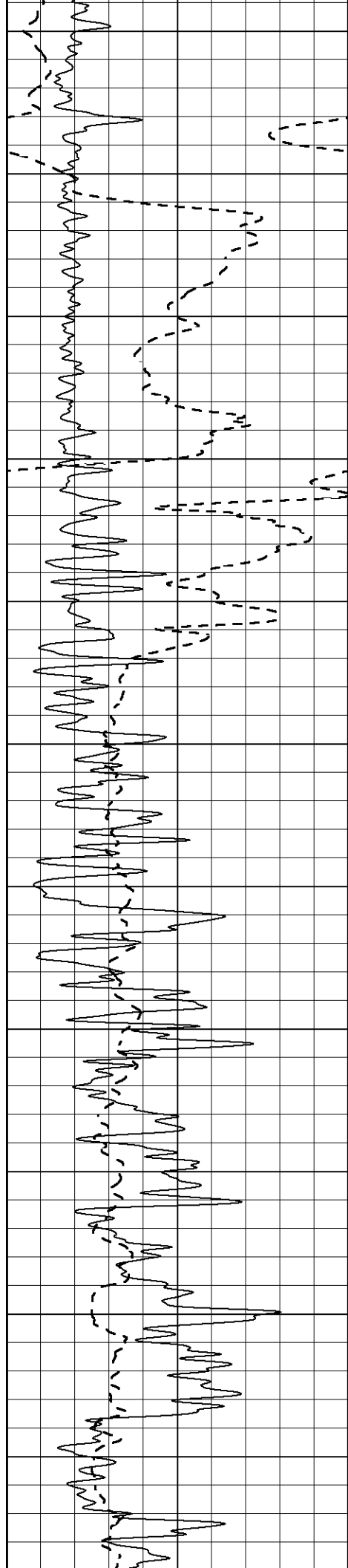
MAIN SECTION

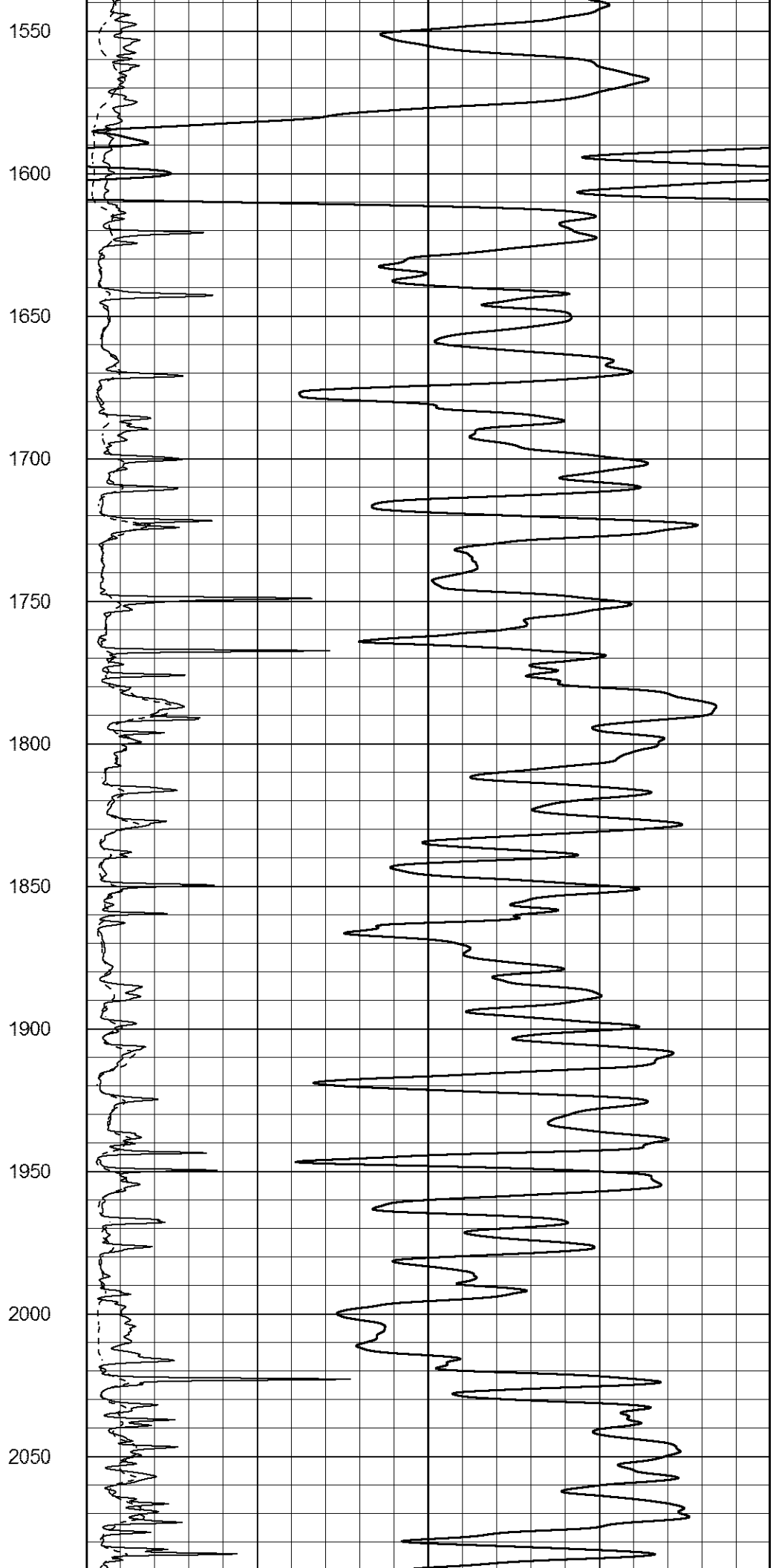
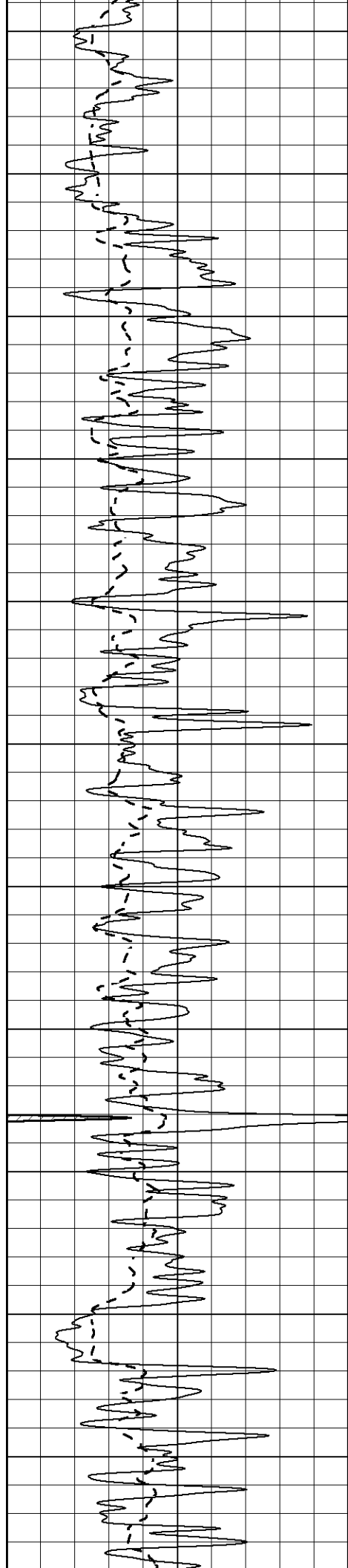
Database File	6772pe.db
Dataset Pathname	pass3M
Presentation Format	_dil2
Dataset Creation	Wed Aug 17 12:44:05 2022
Charted by	Depth in Feet scaled 1:600

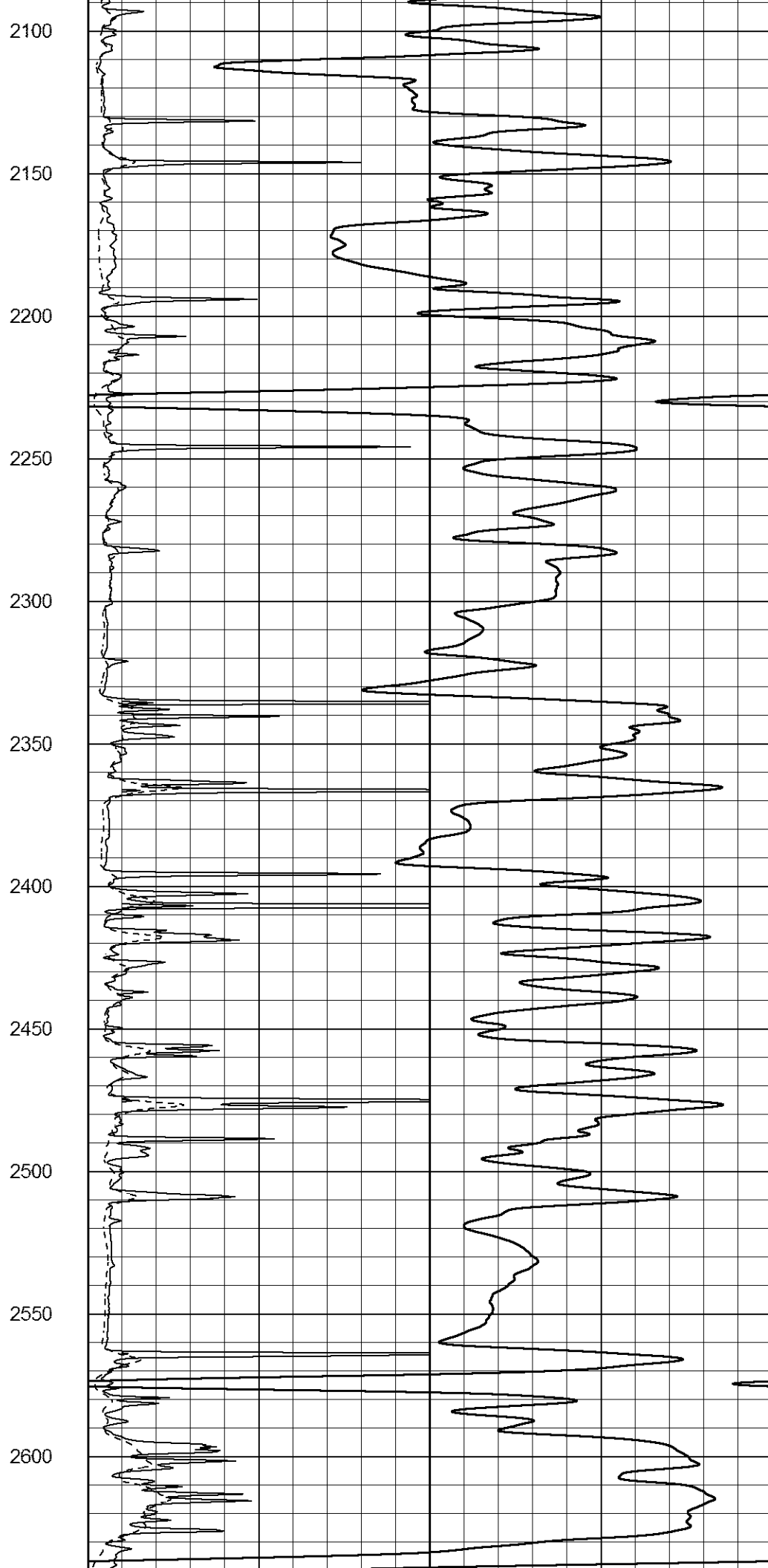
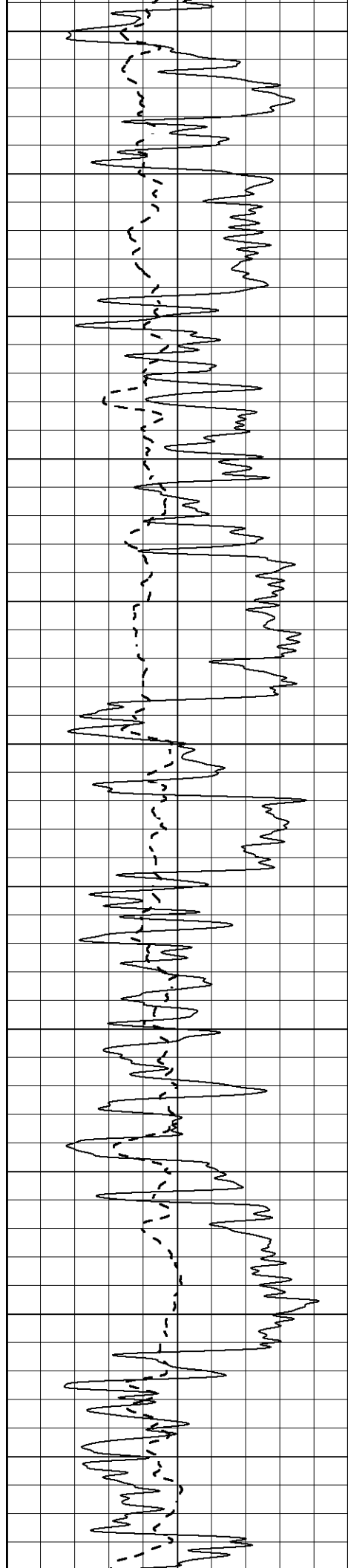
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

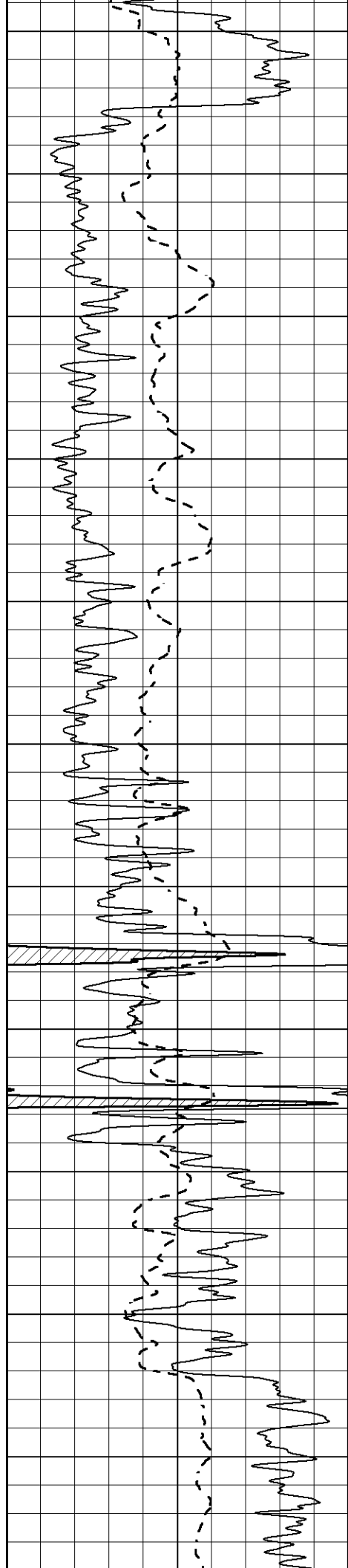












2650

2700

2750

2800

2850

2900

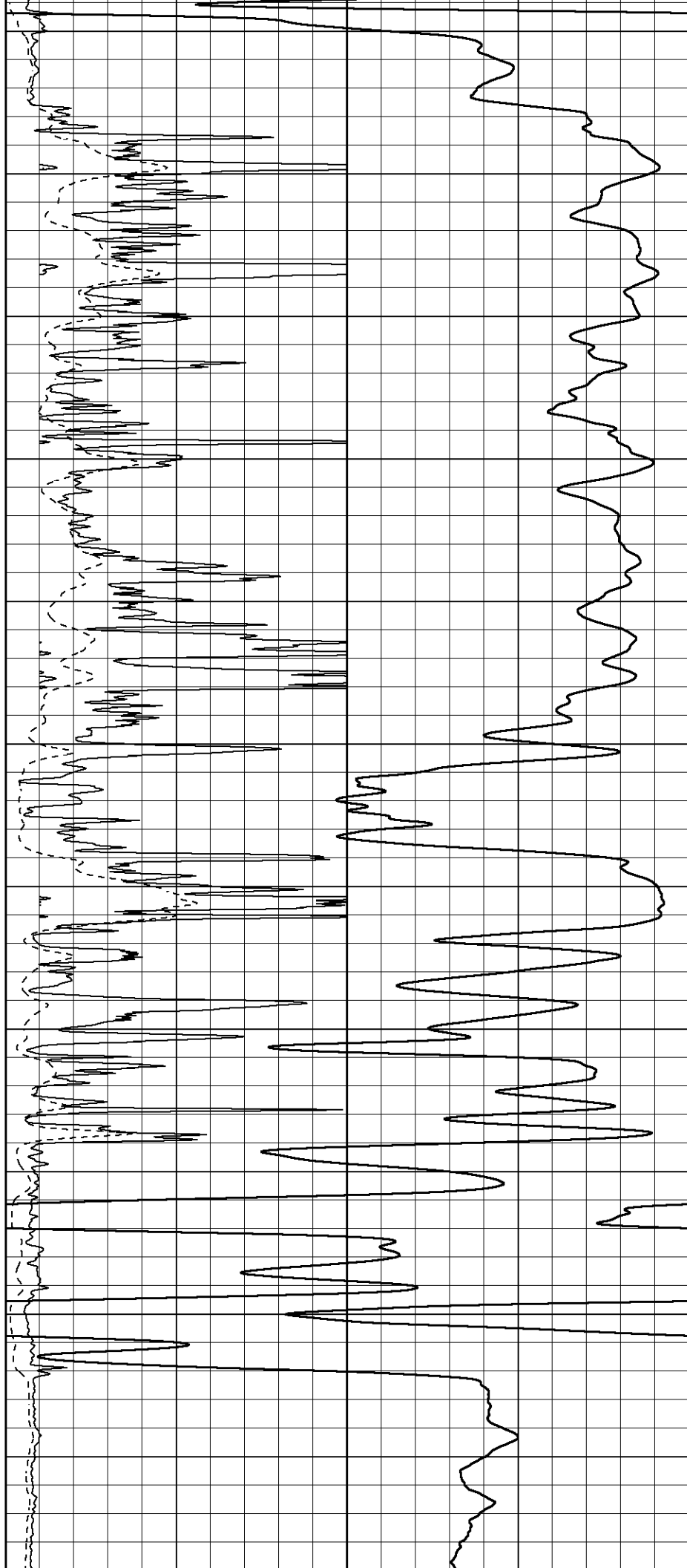
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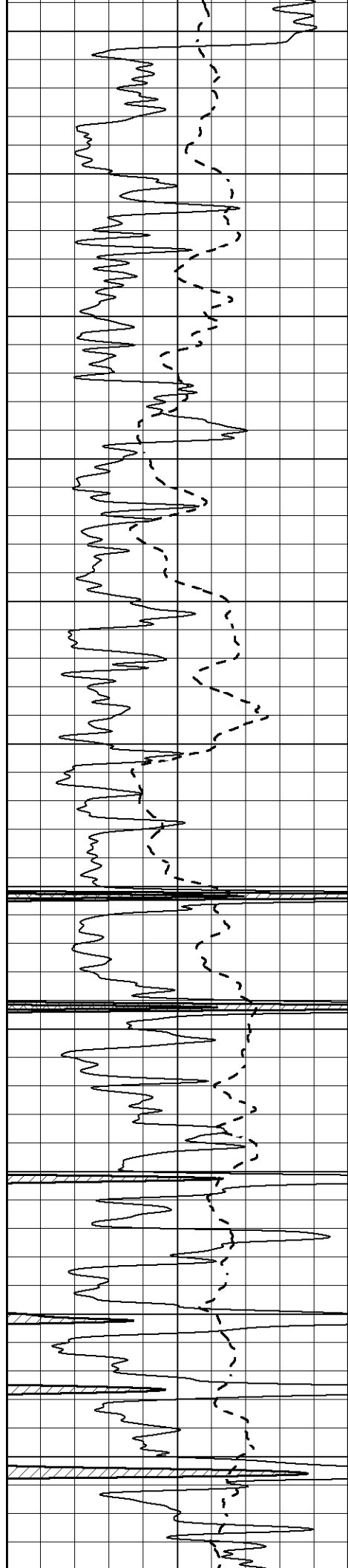
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3050

3100

3150





3200

3250

3300

3350

3400

3450

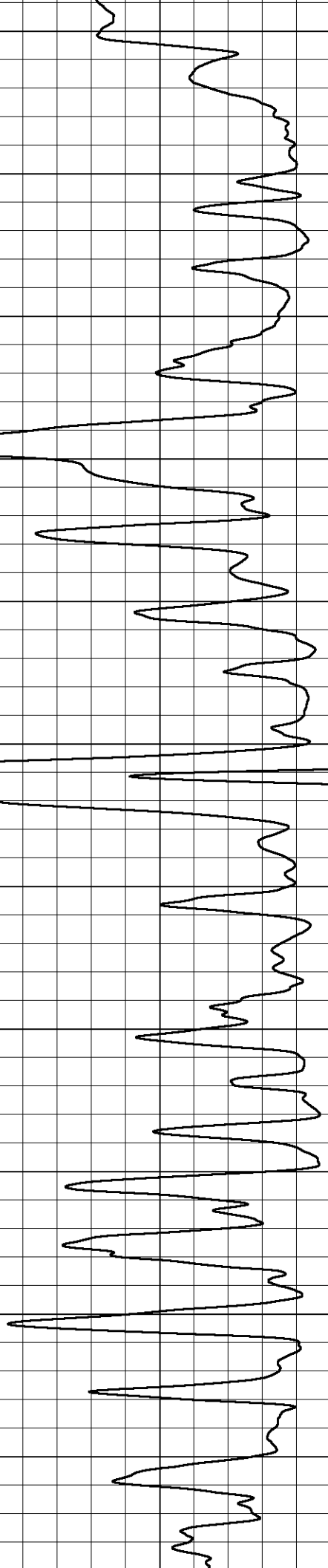
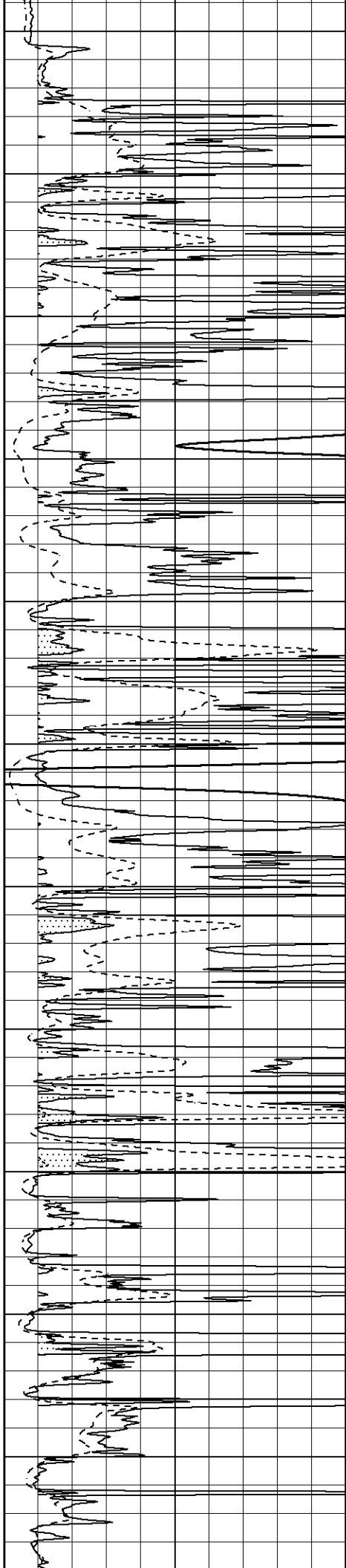
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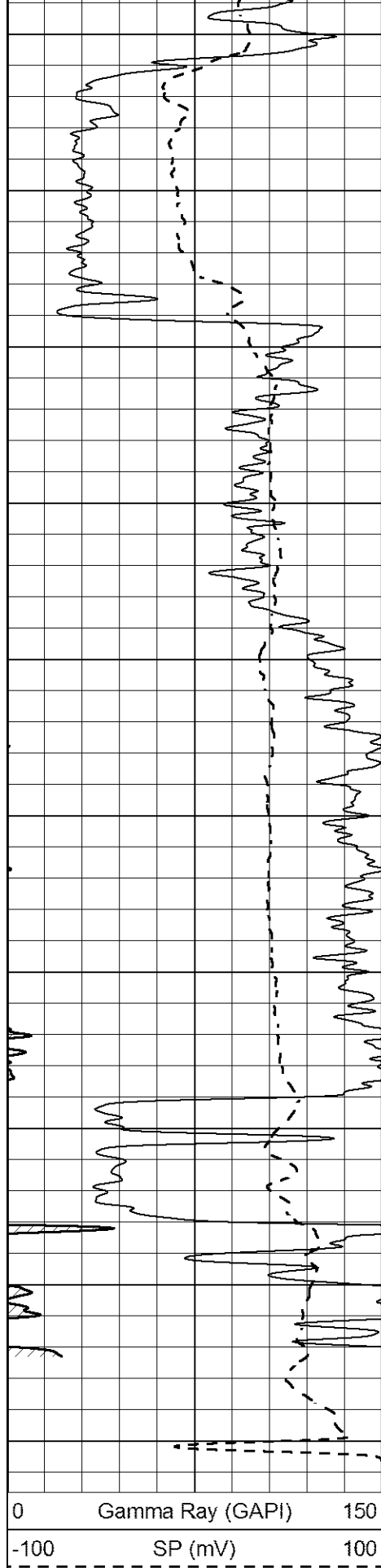
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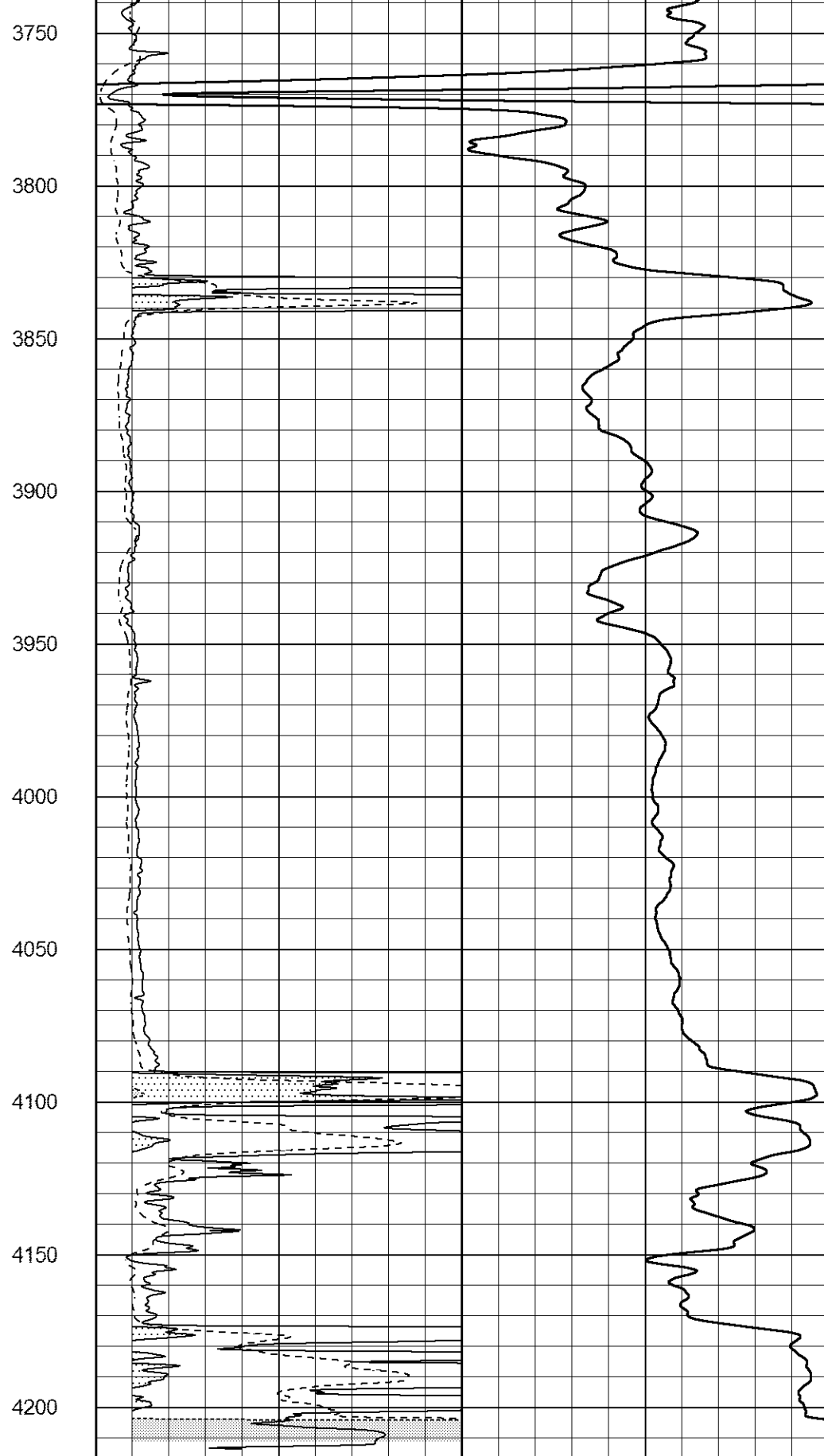
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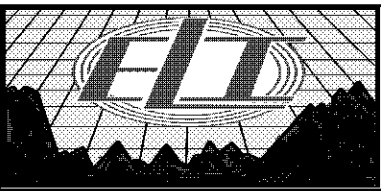




0	Gamma Ray (GAPI)	150
-100	SP (mV)	100



1000	CILD (mmho/m)	0
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

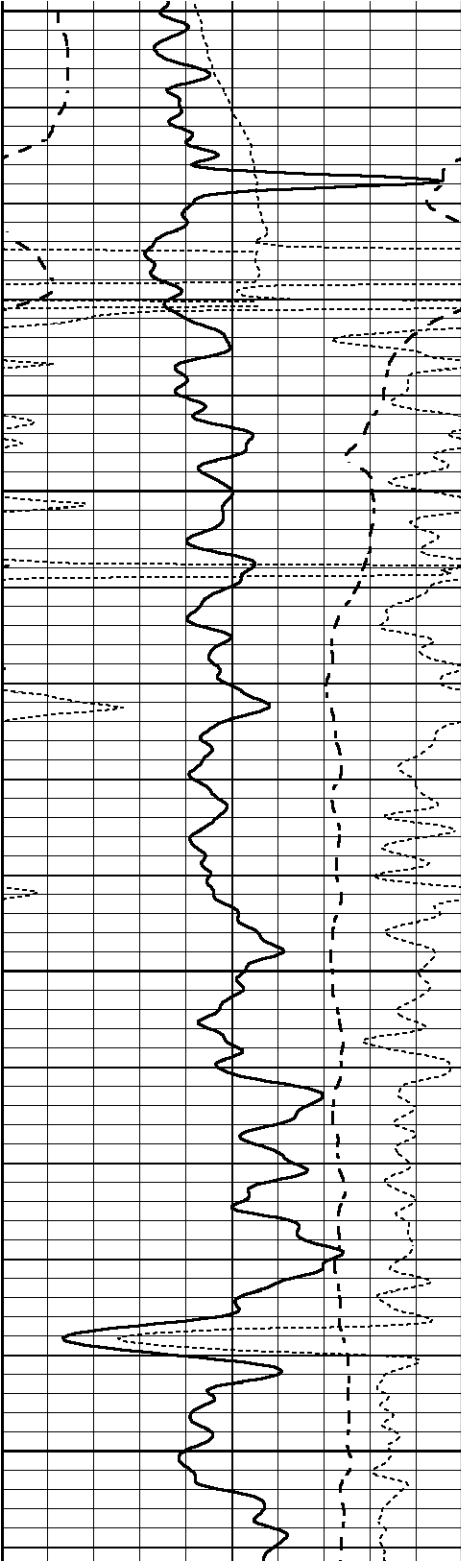


MAIN SECTION

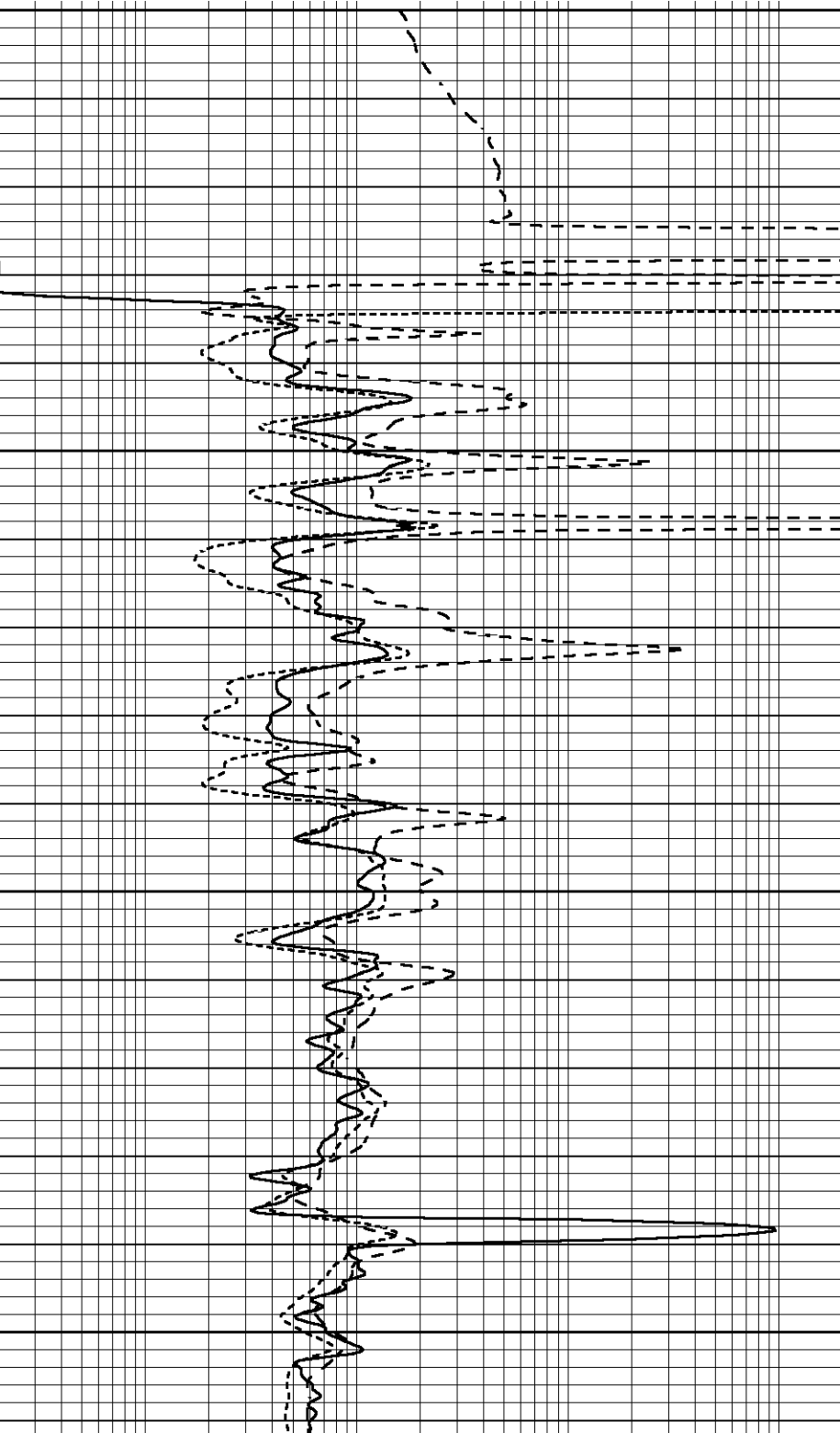
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Dataset Pathname pass3M
Presentation Format _dil
Dataset Creation Wed Aug 17 12:44:05 2022
Charted by Depth in Feet scaled 1:240

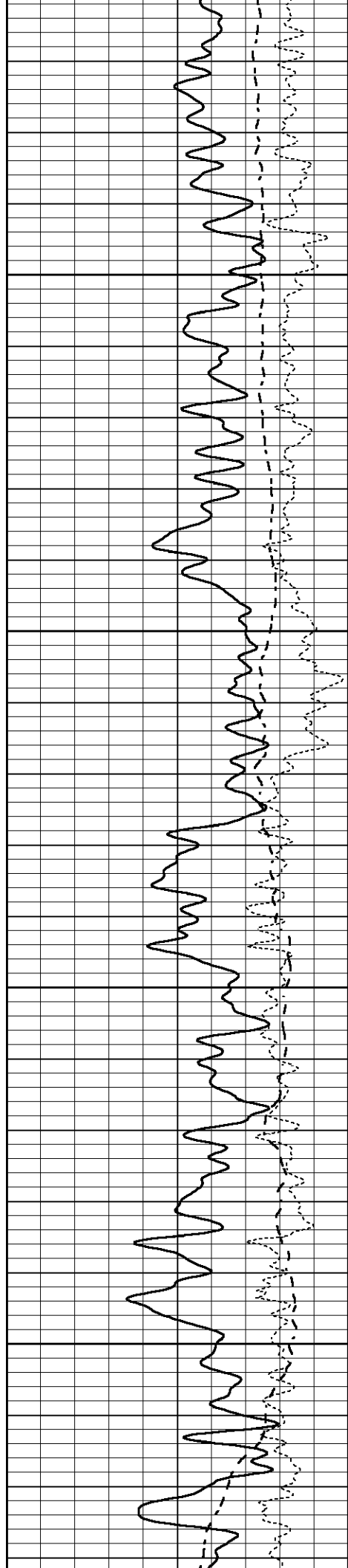
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



100
150
200
250



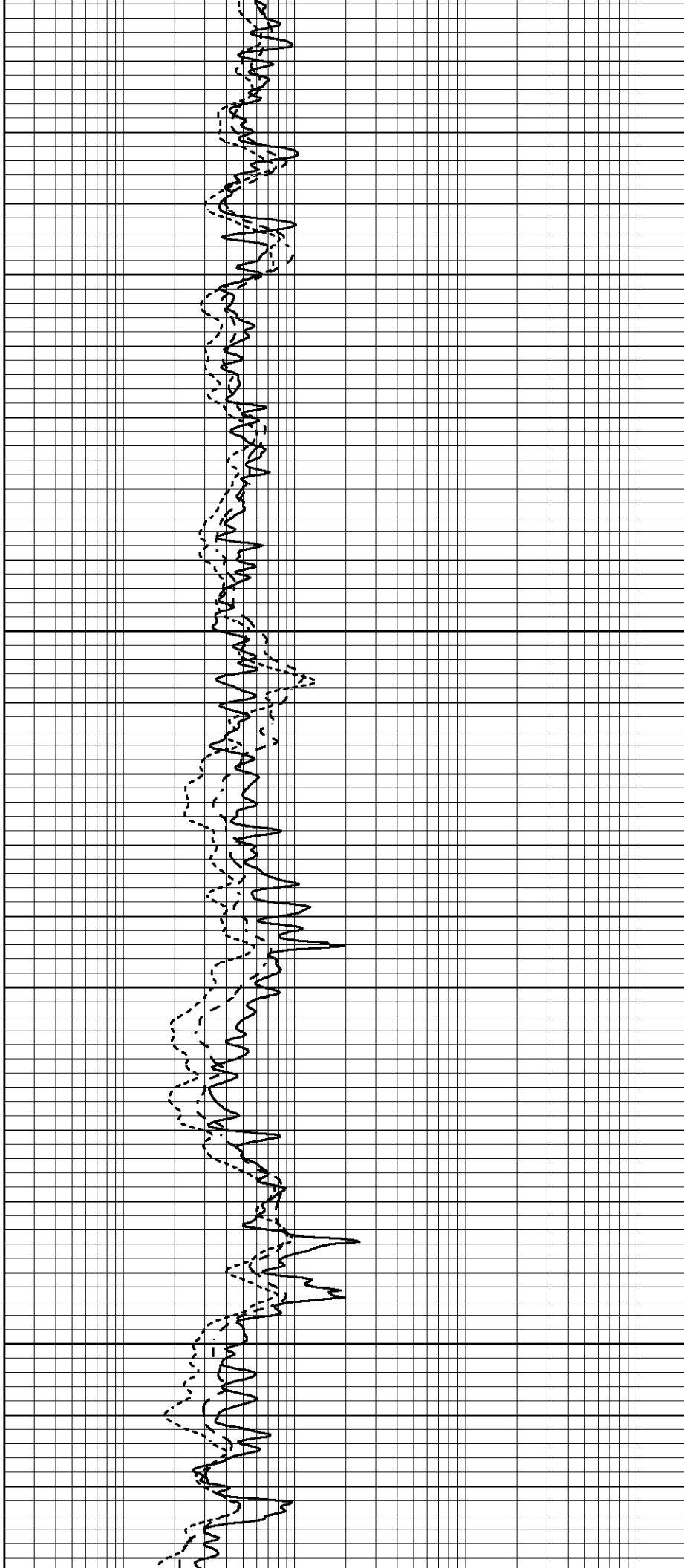


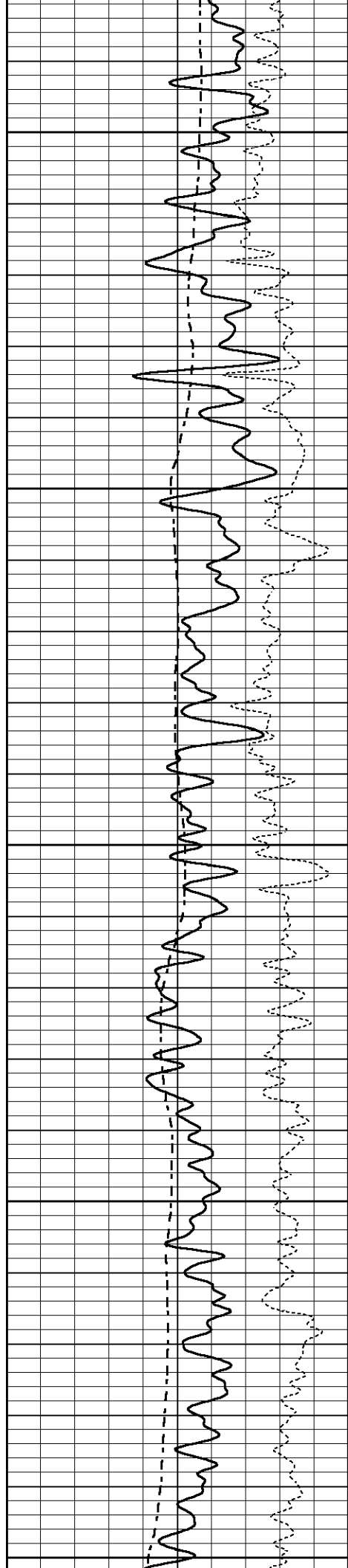
300

350

400

450





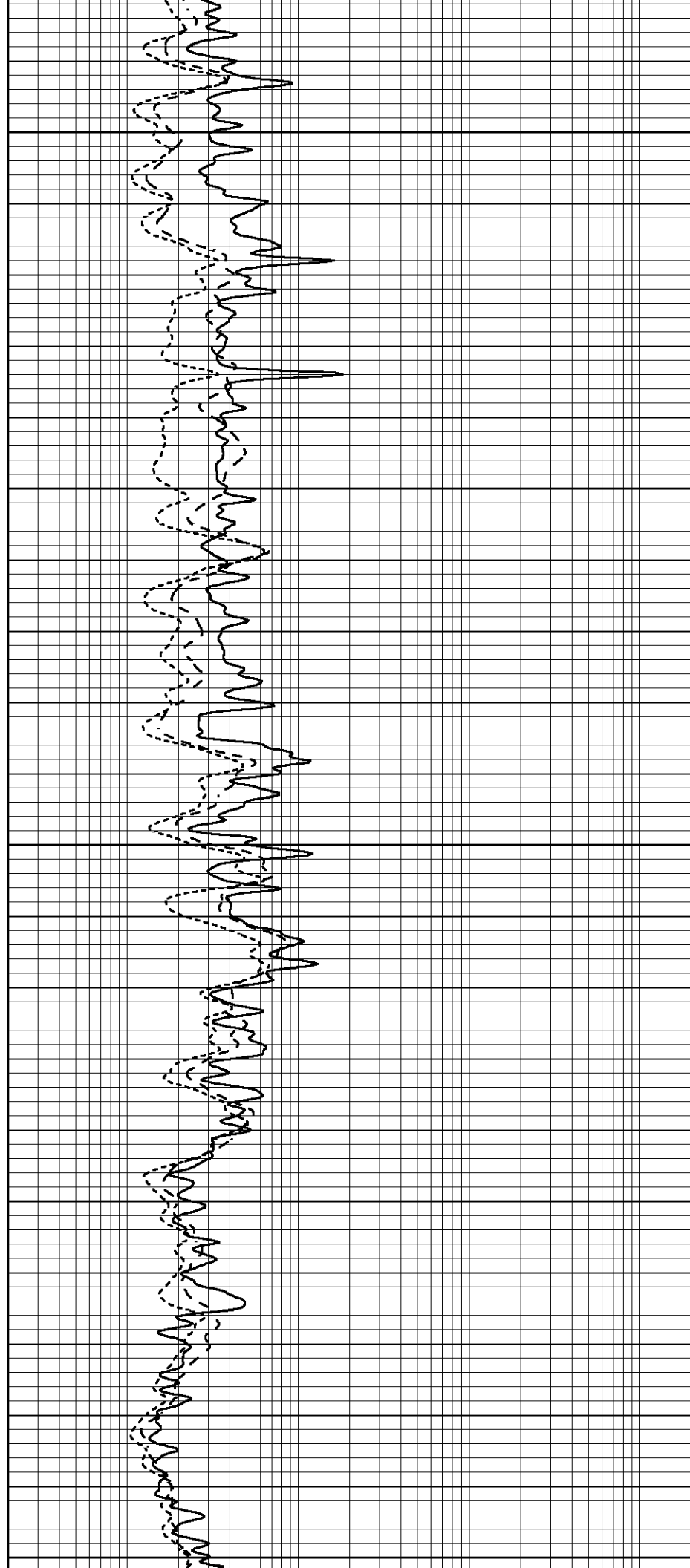
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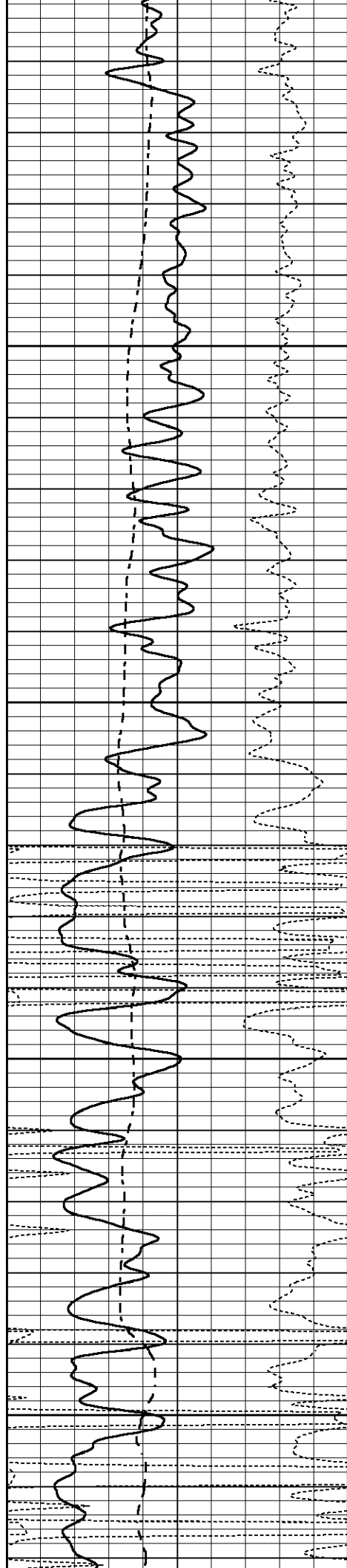
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600

650

700



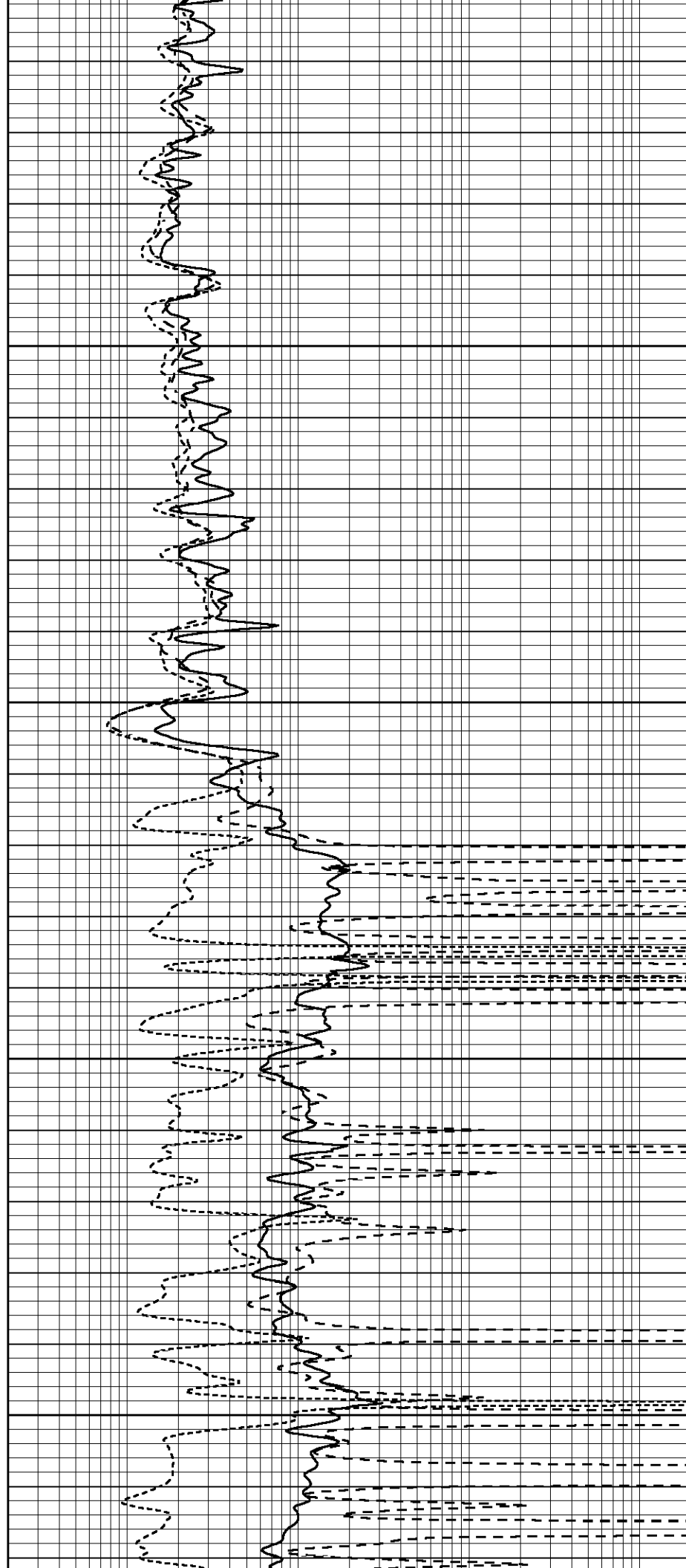


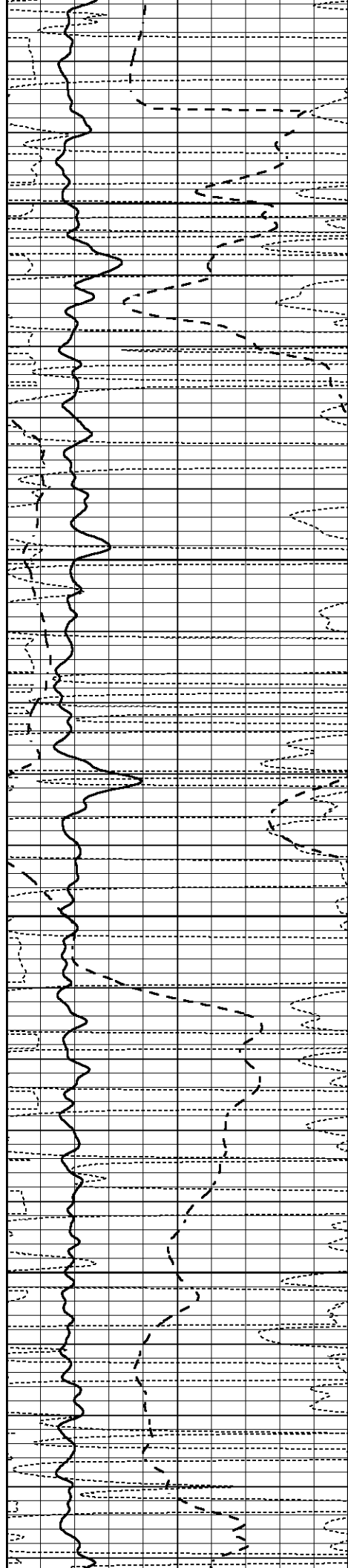
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800

850

900



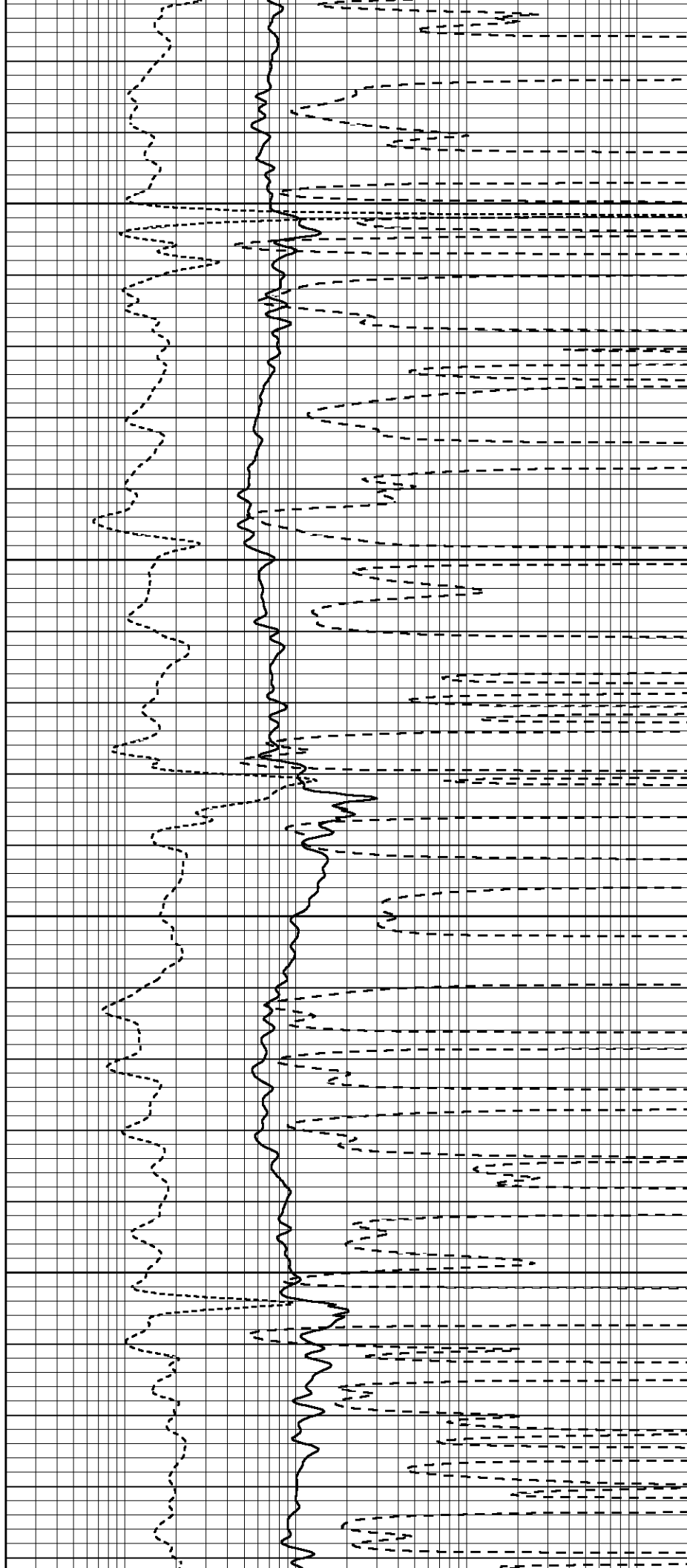


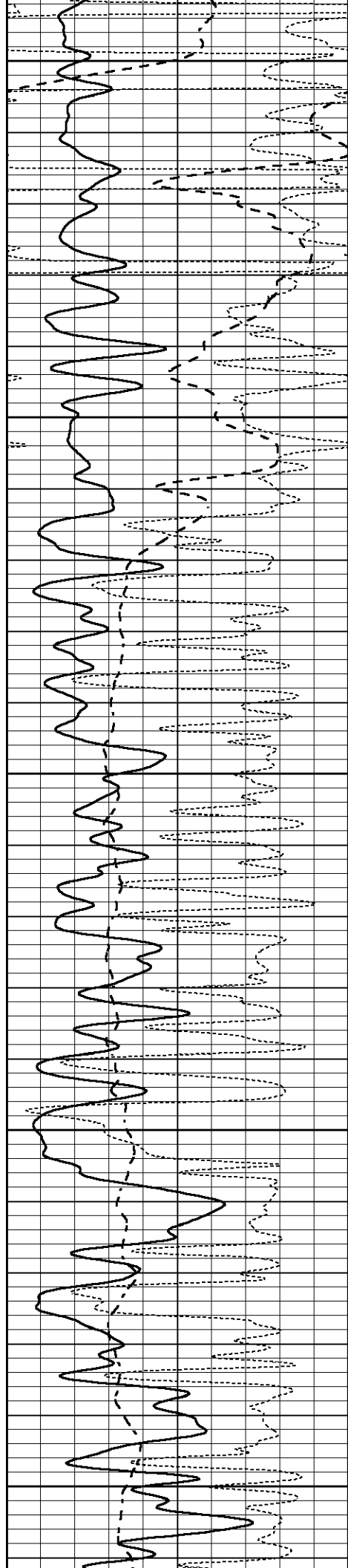
950

1000

1050

1100





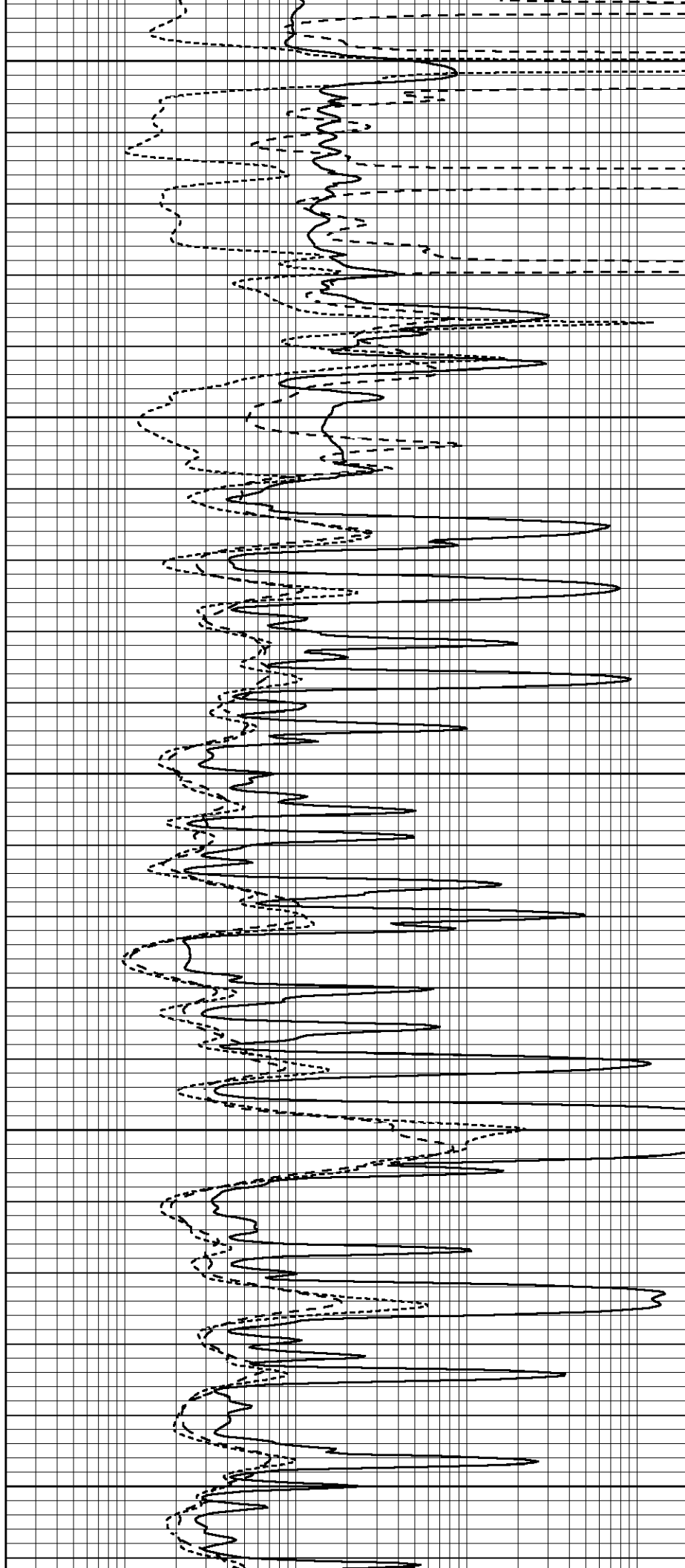
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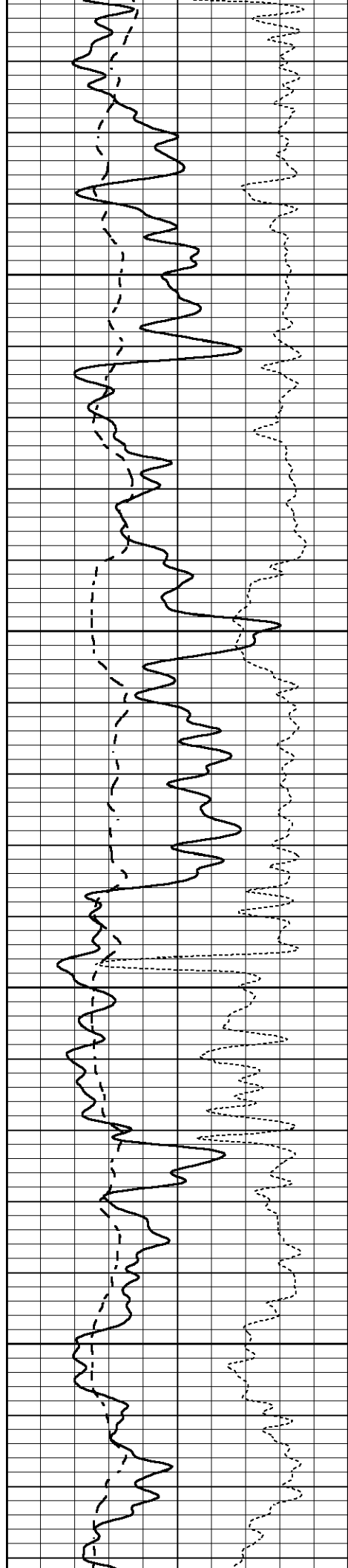
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1250

1300

1350



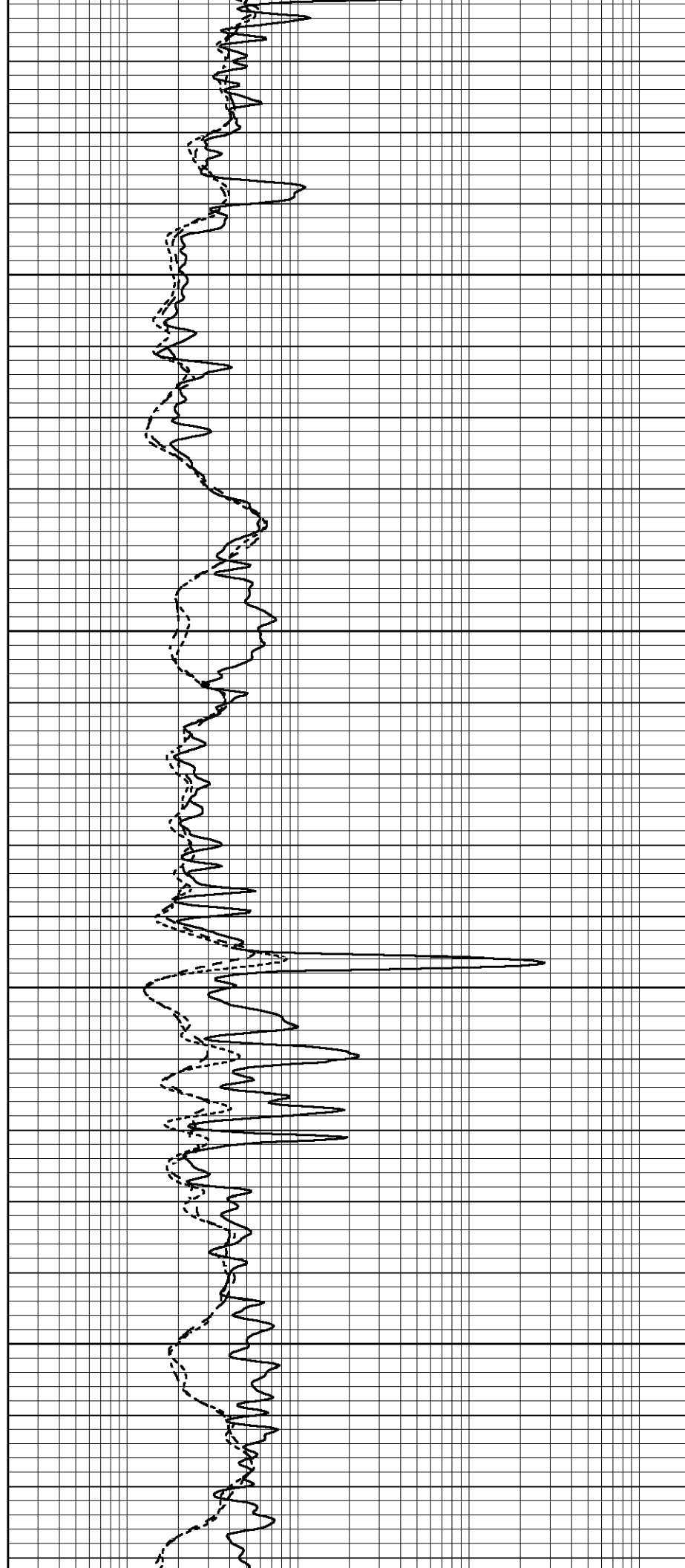


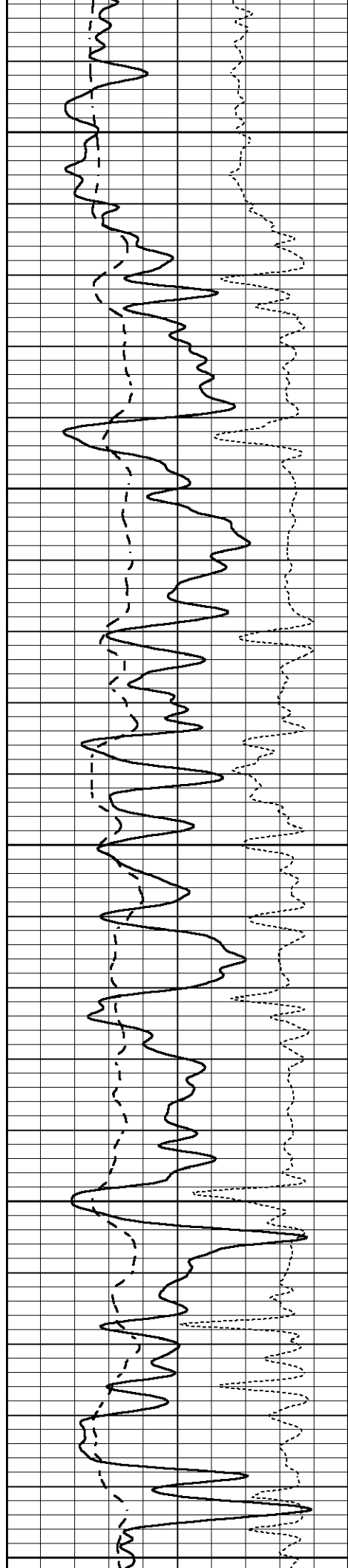
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1450

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1550





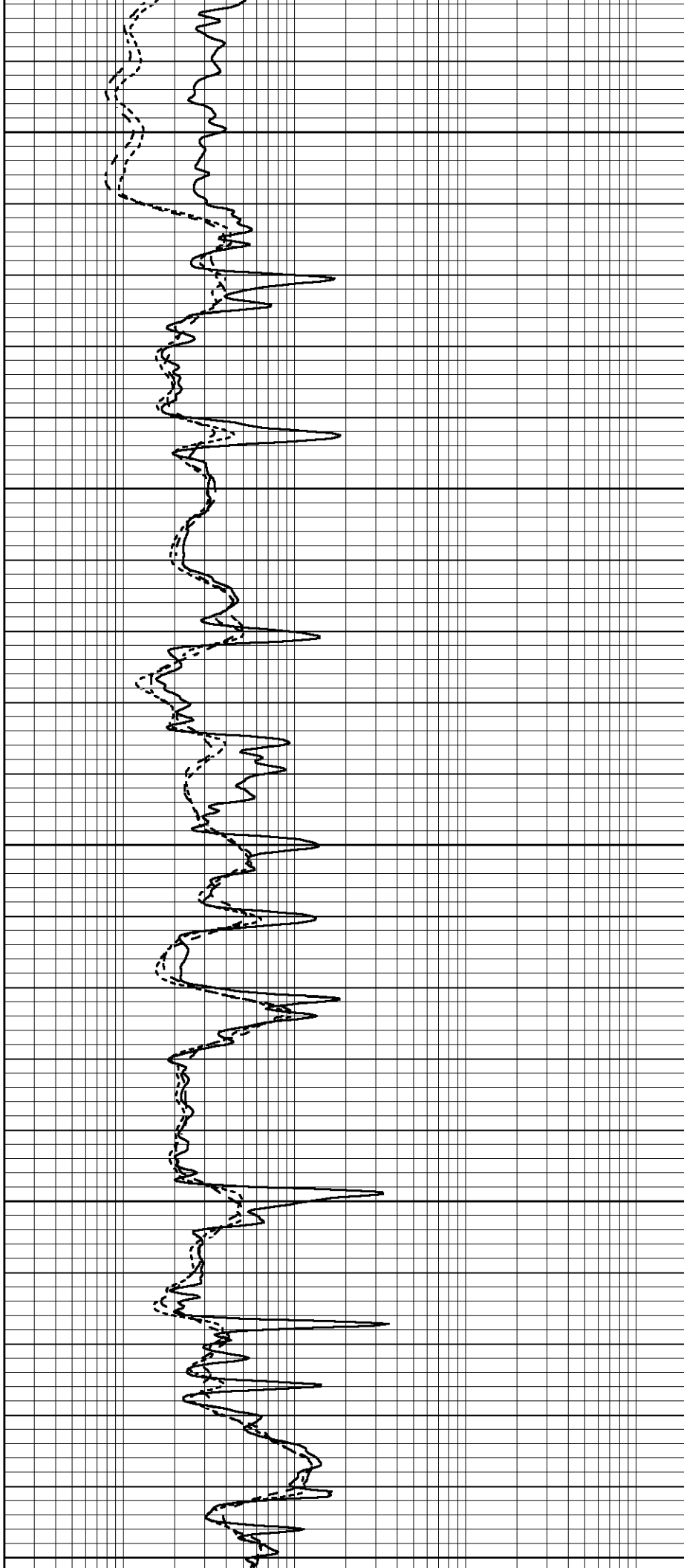
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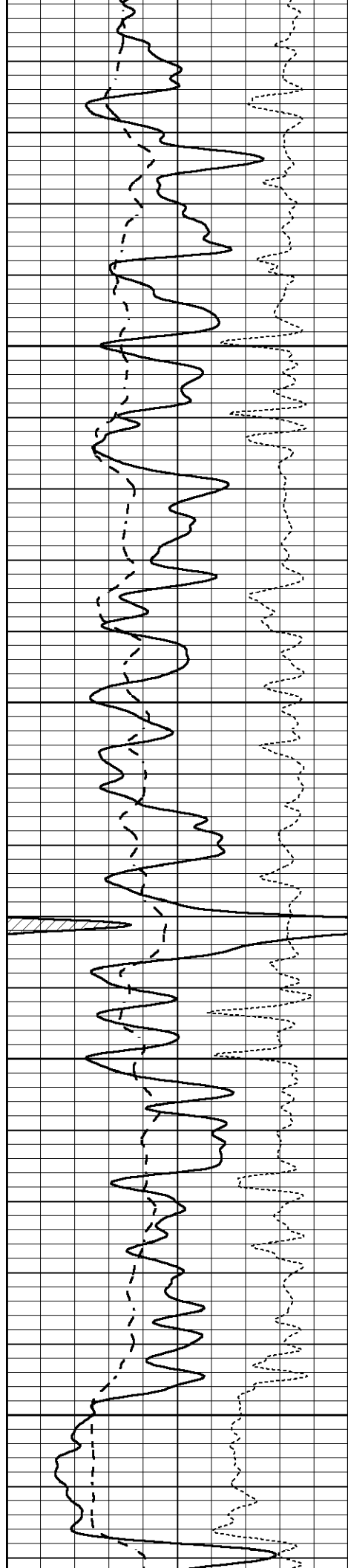
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1700

1750

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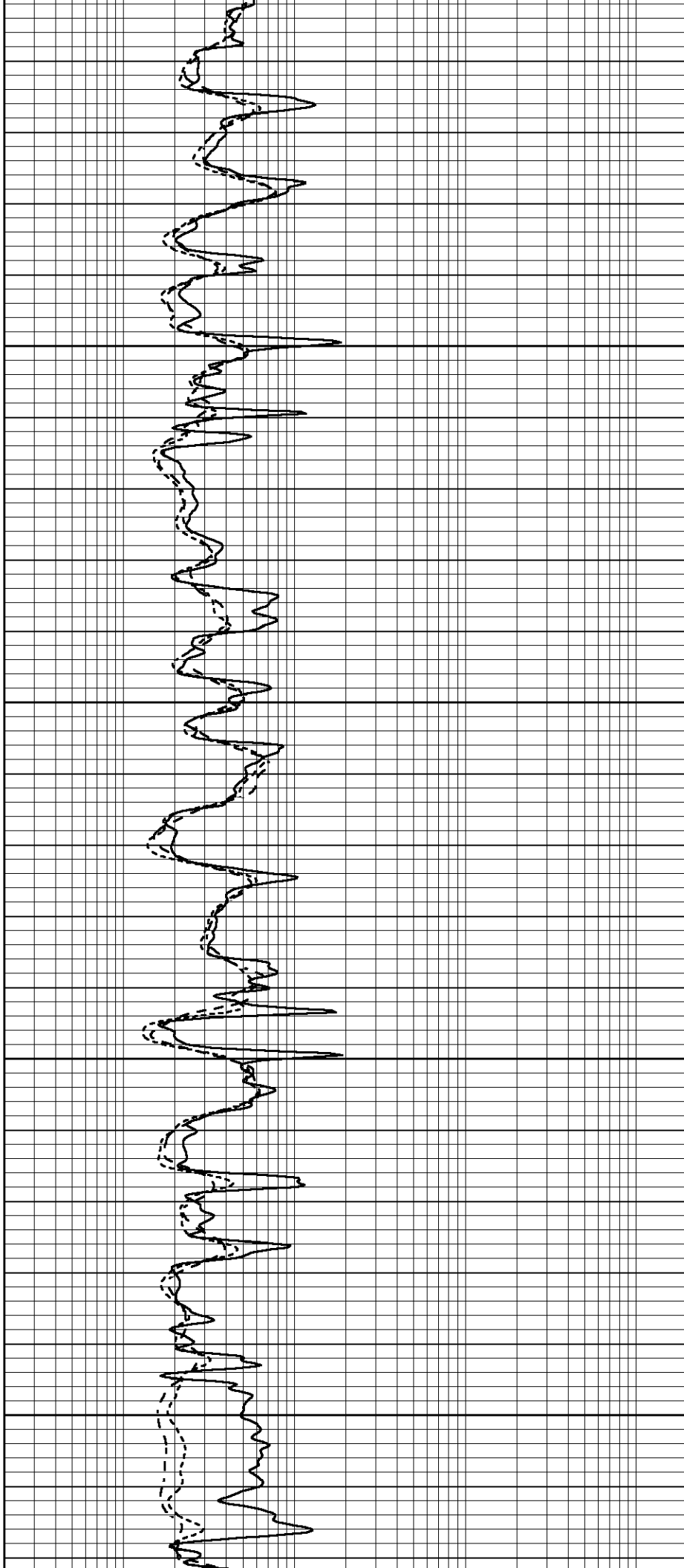


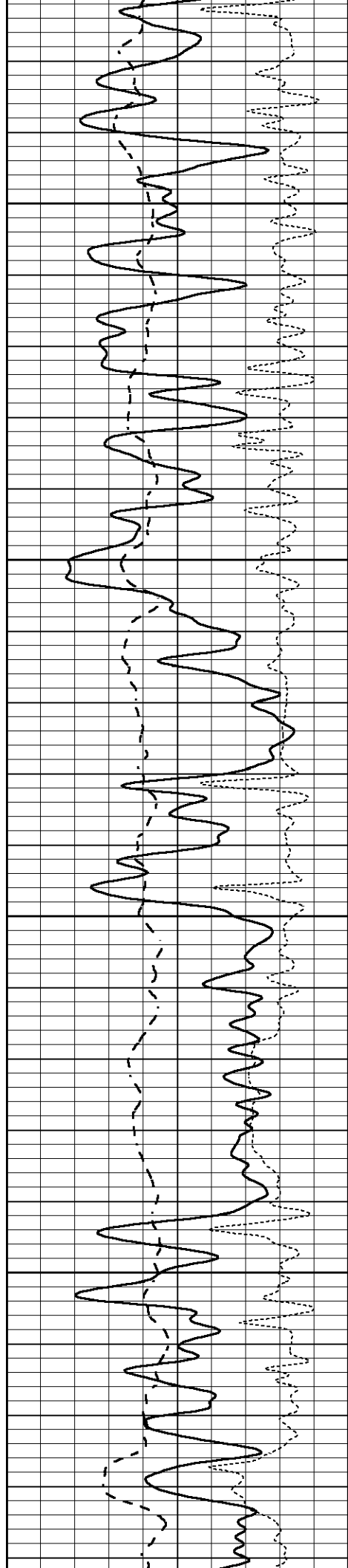
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1900

1950

2000



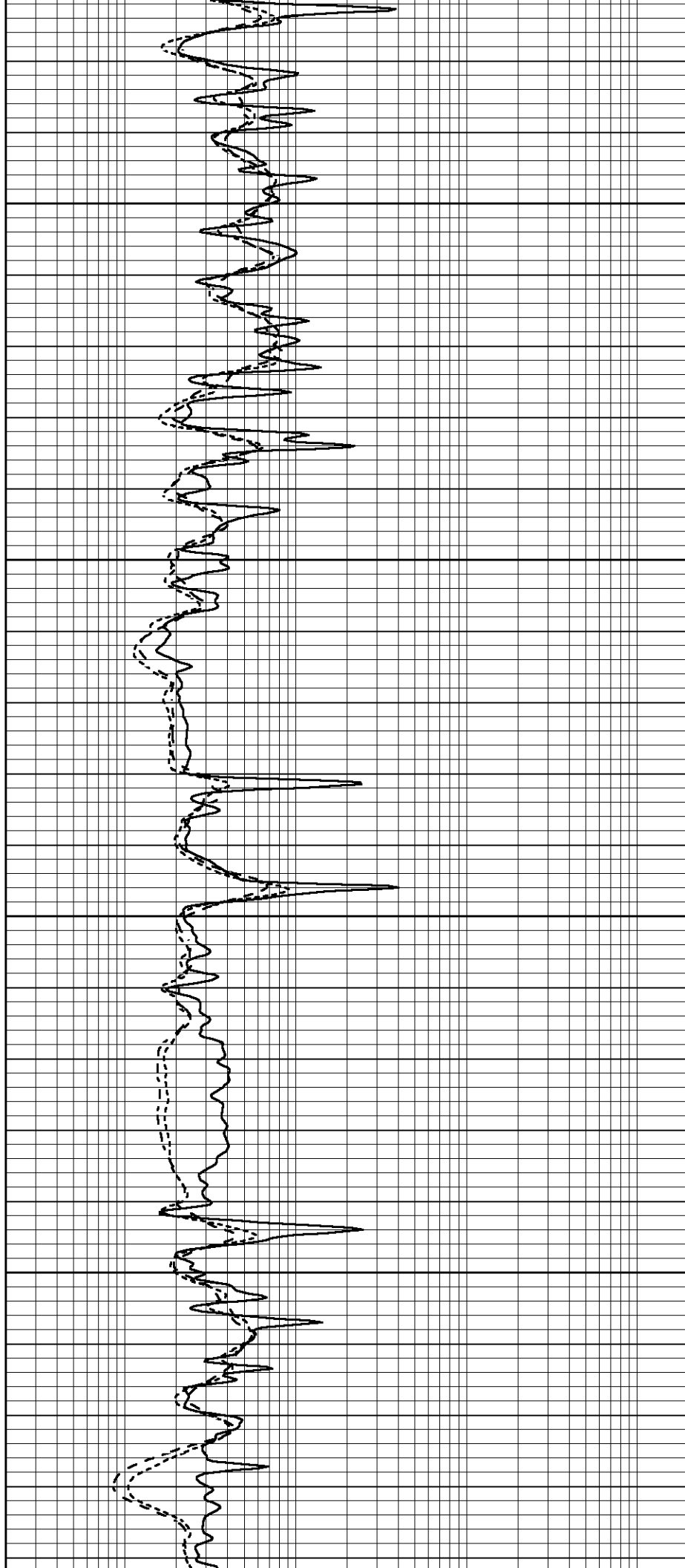


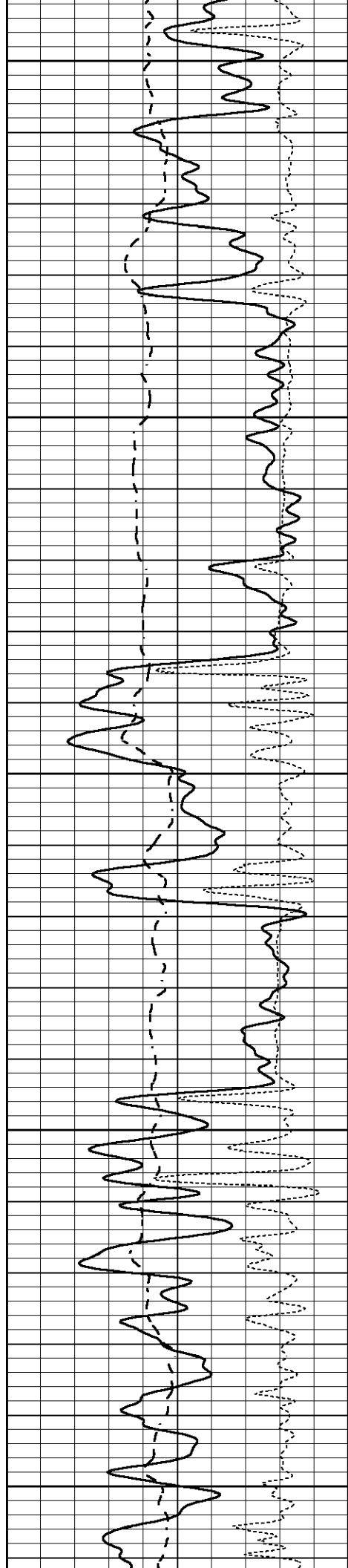
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2100

2150

2200





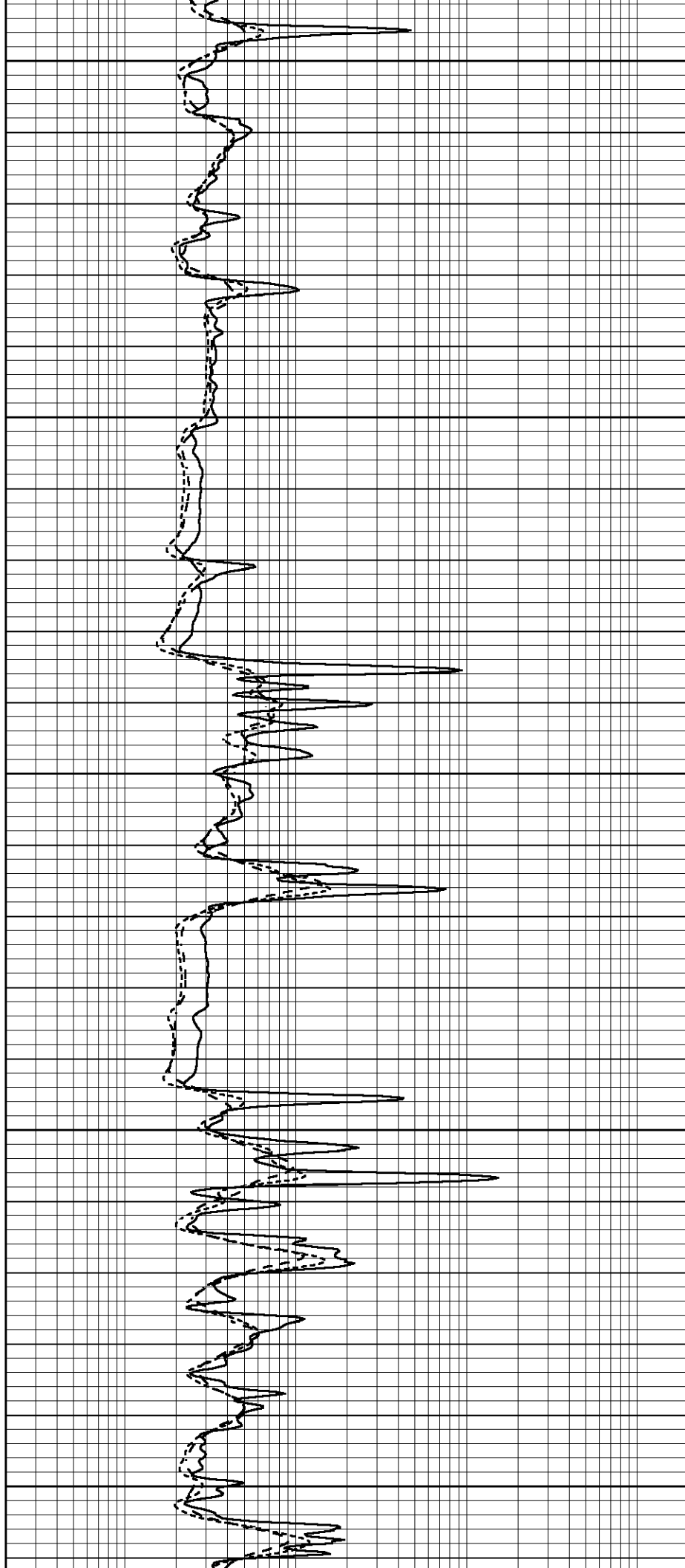
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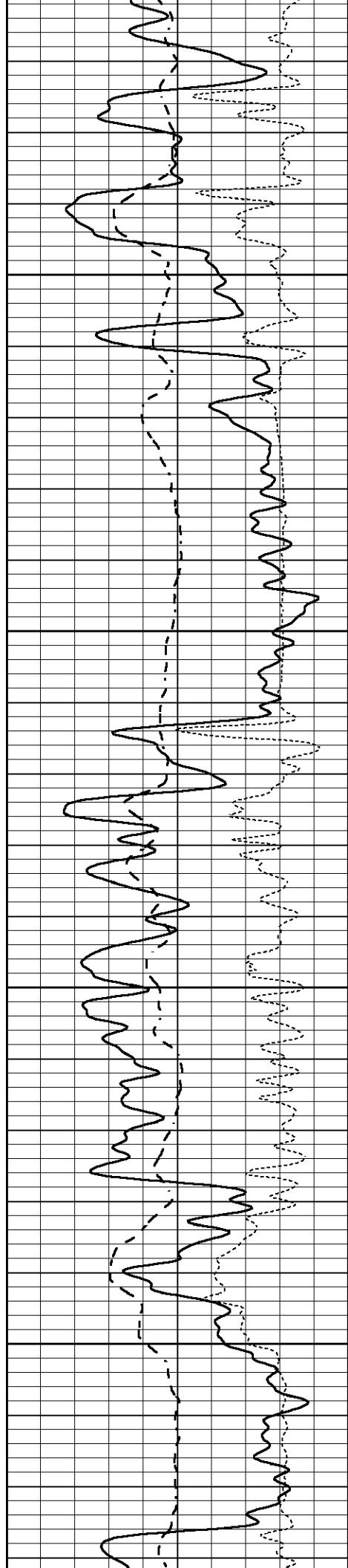
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2350

2400

2450



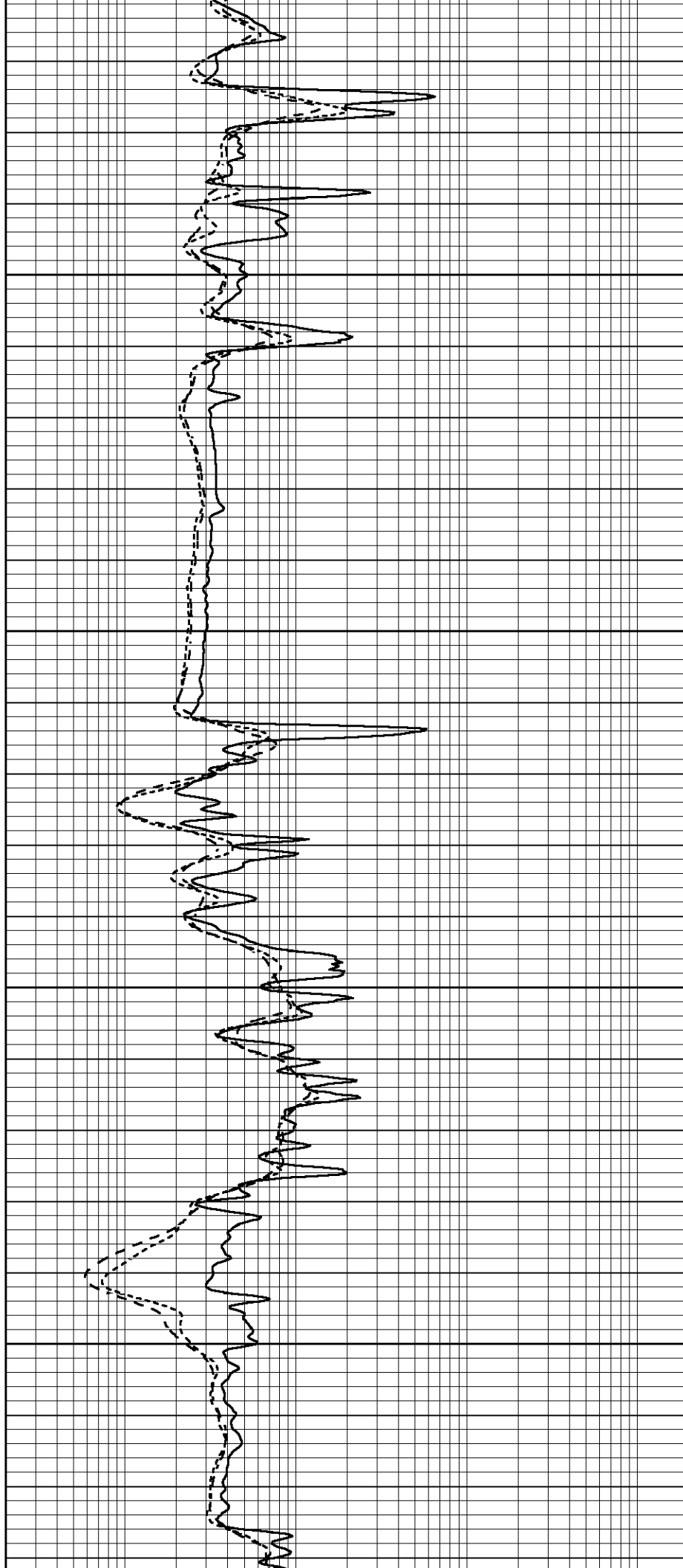


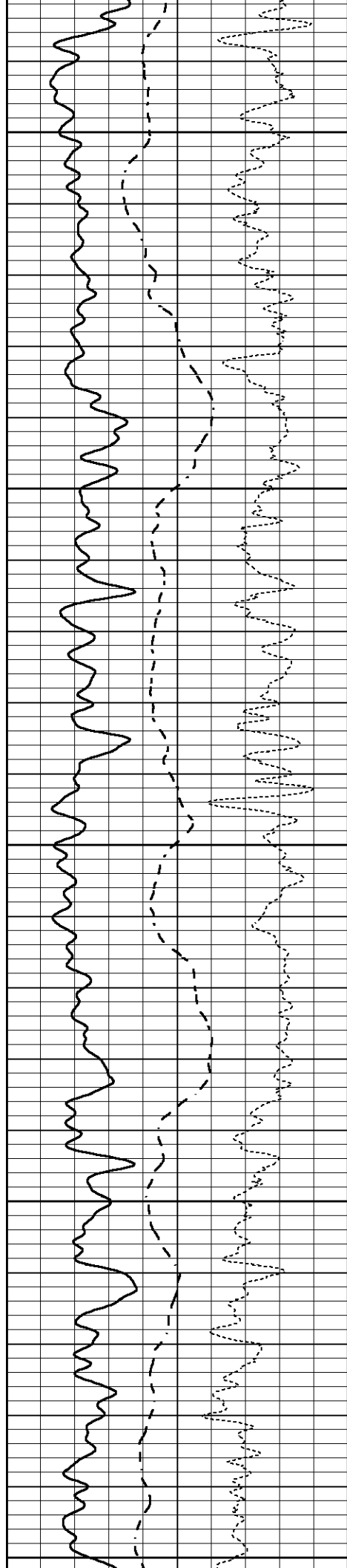
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2550

2600

2650





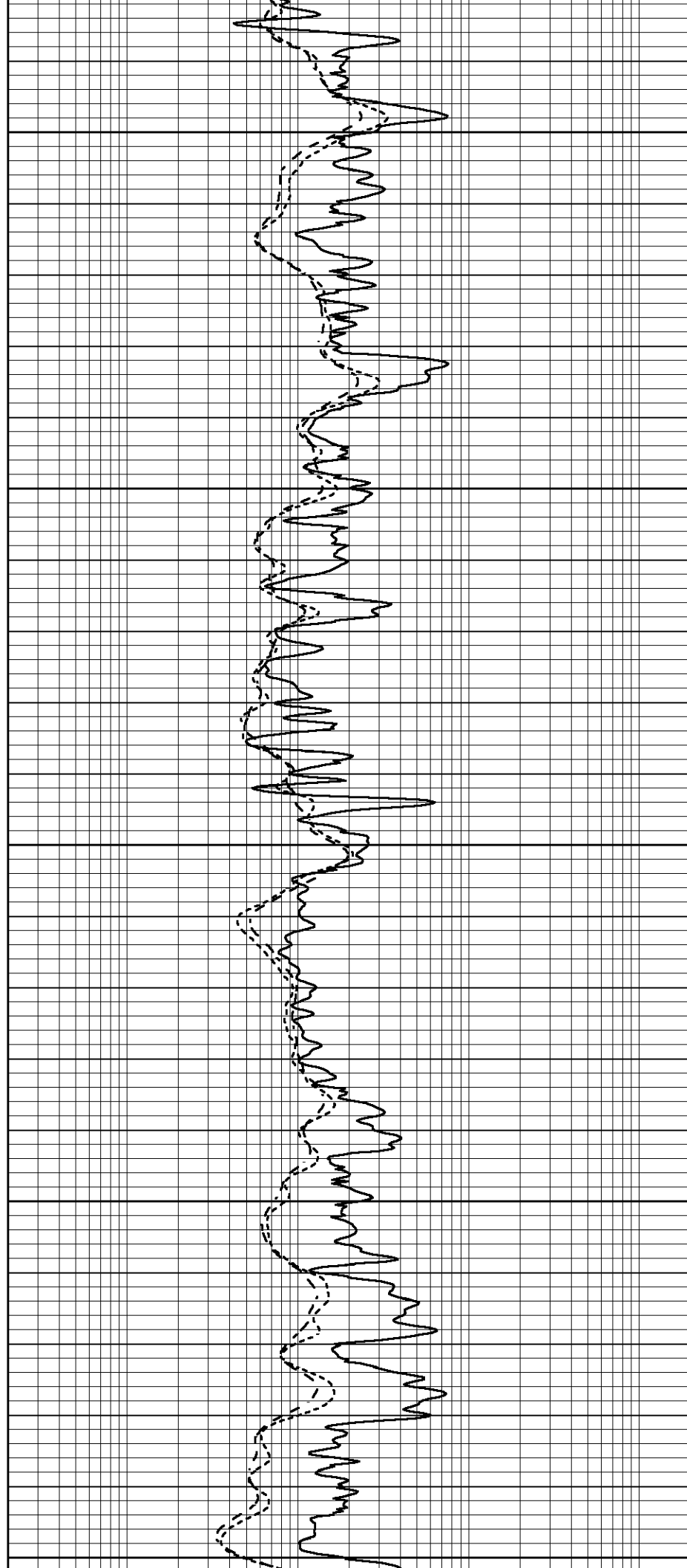
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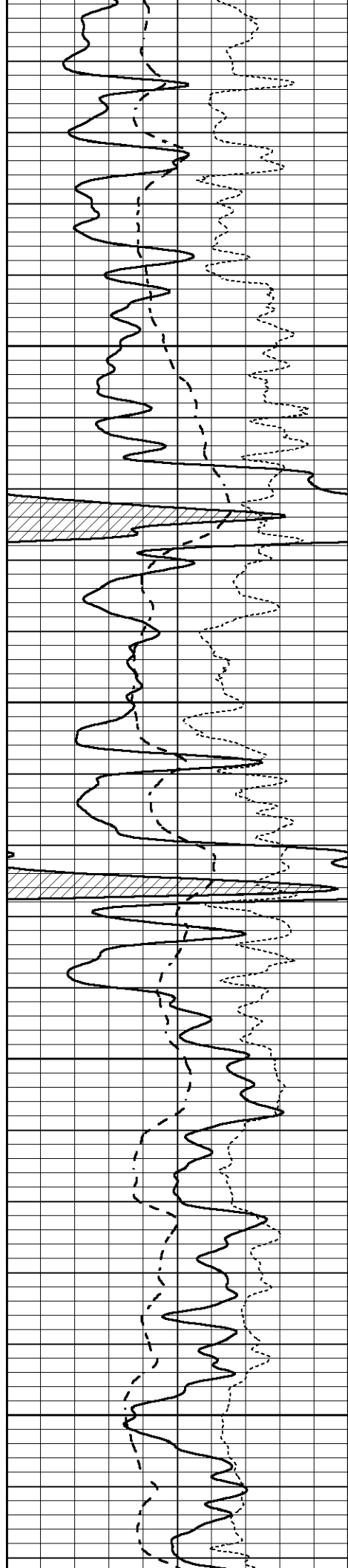
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2800

2850

2900



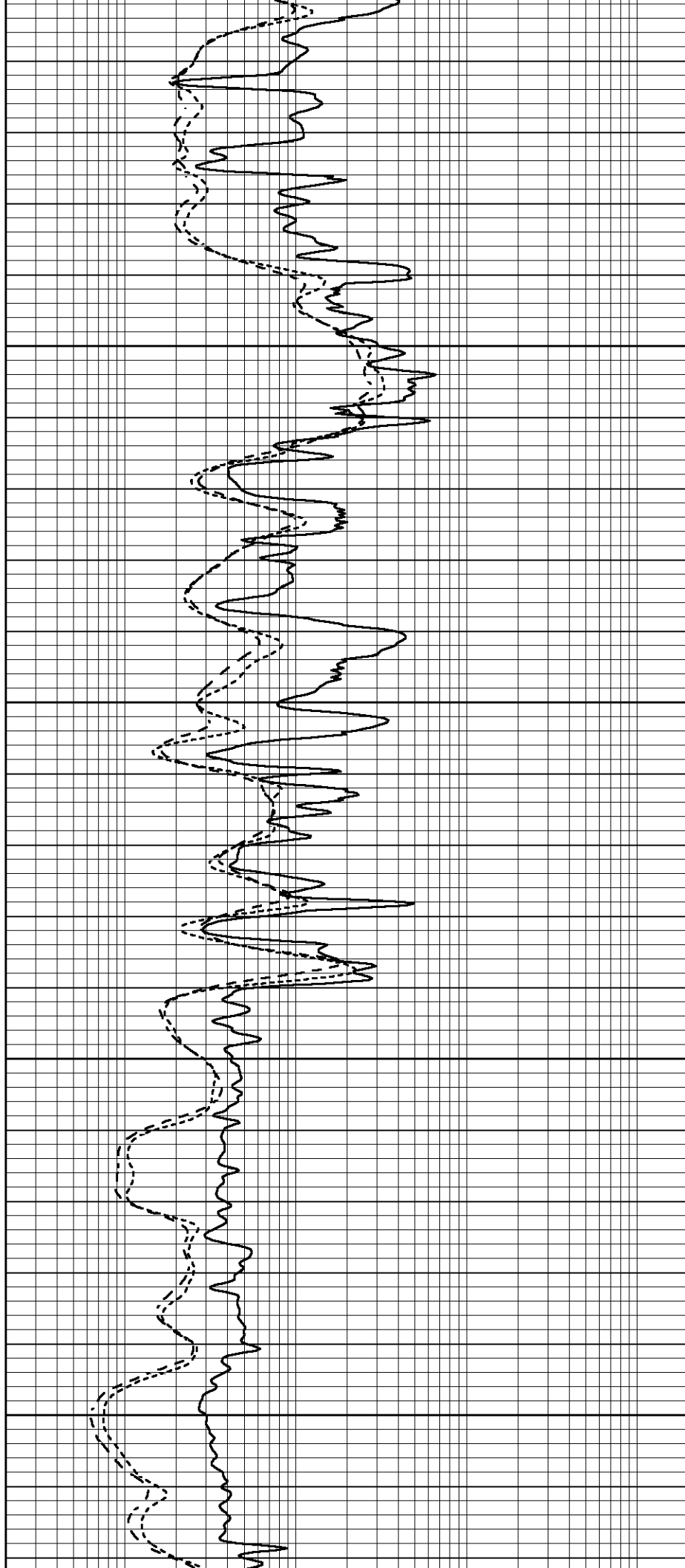


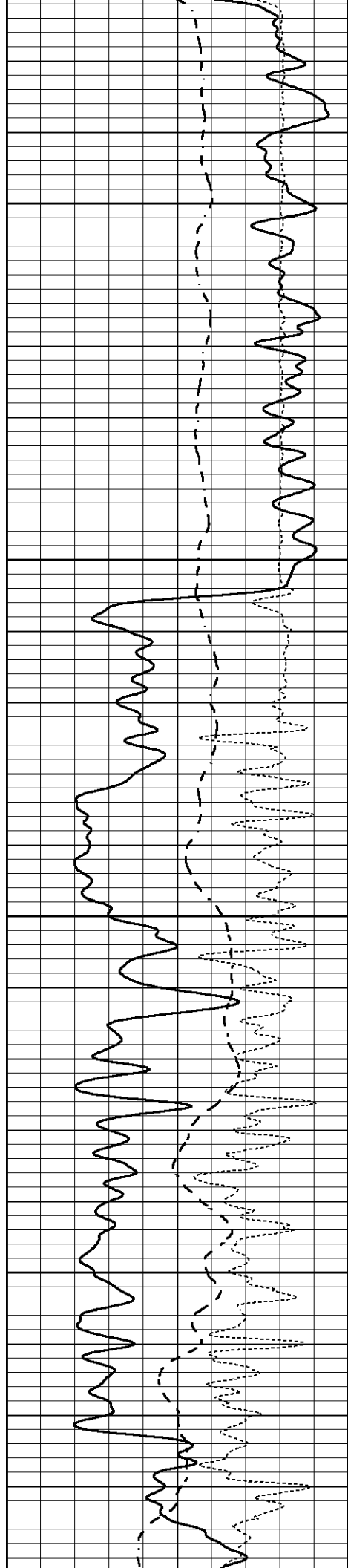
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3000

3050

3100



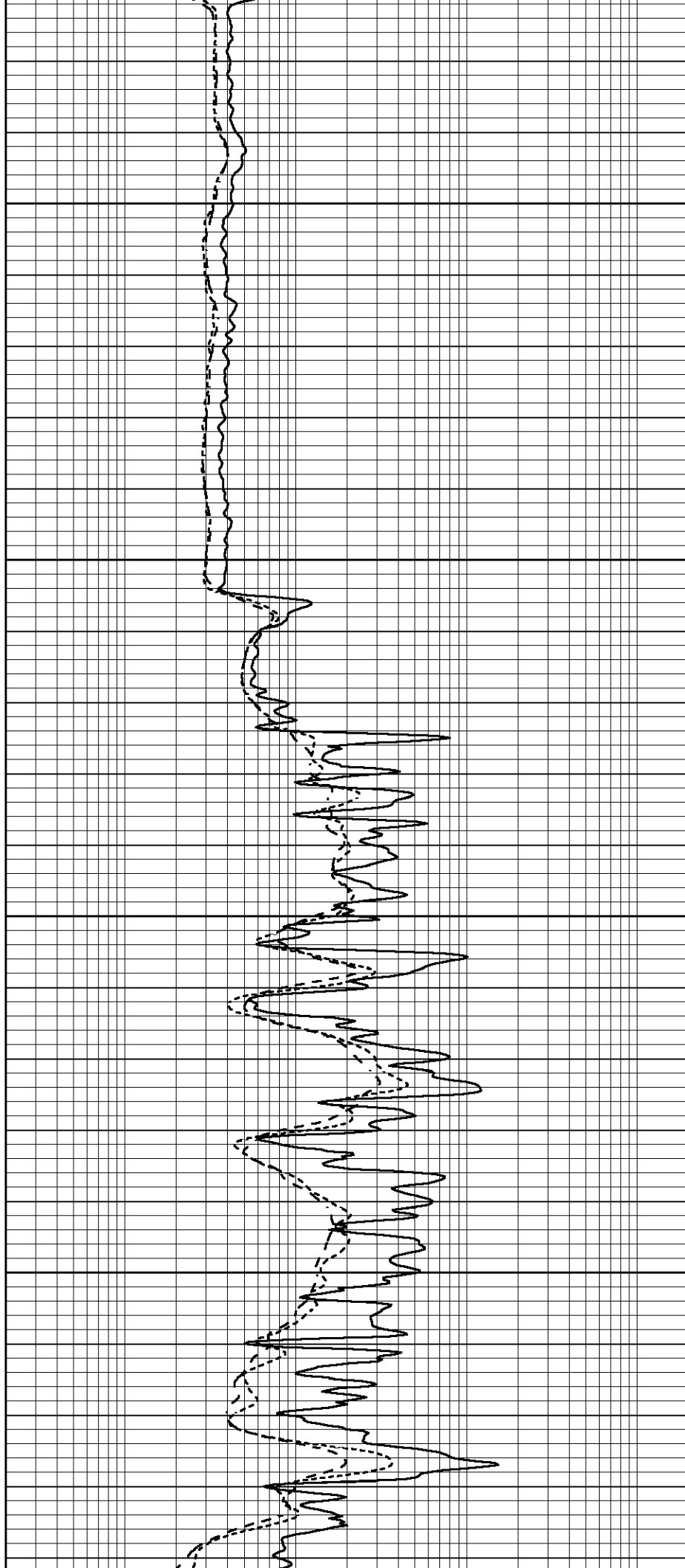


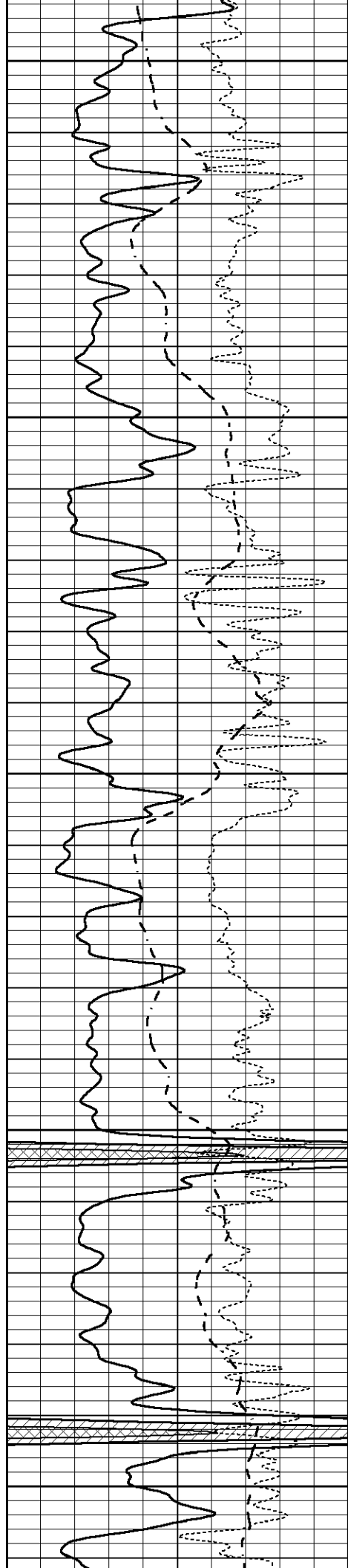
3150

3200

3250

3300





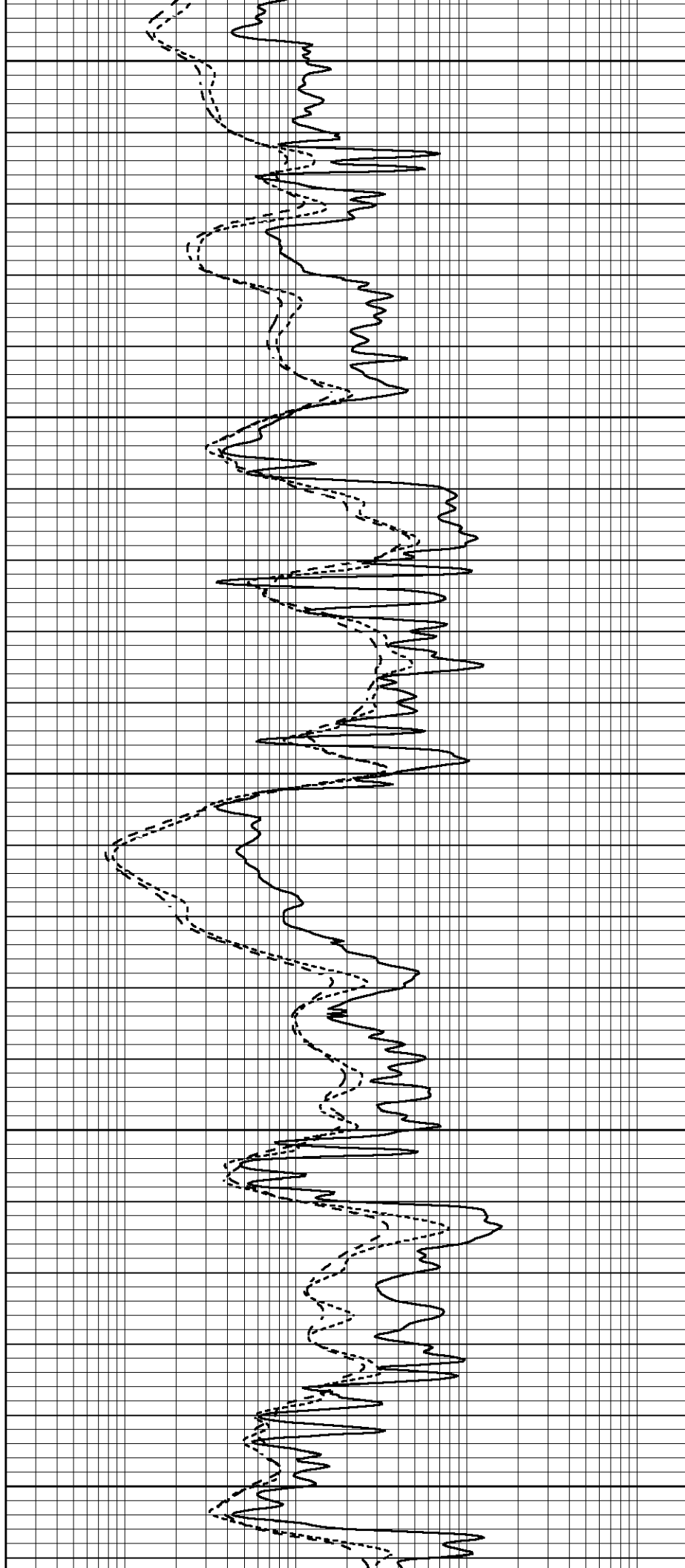
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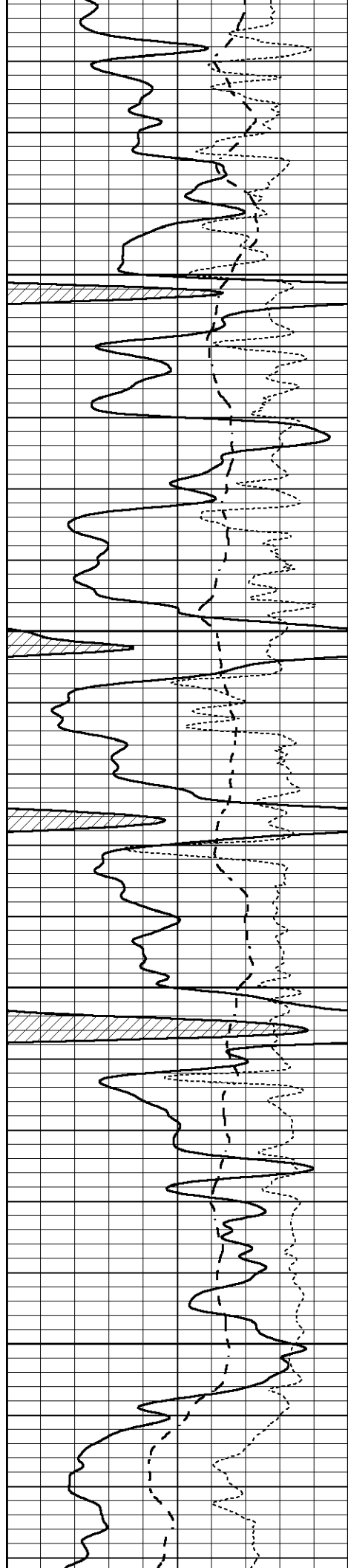
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3450

3500

3550



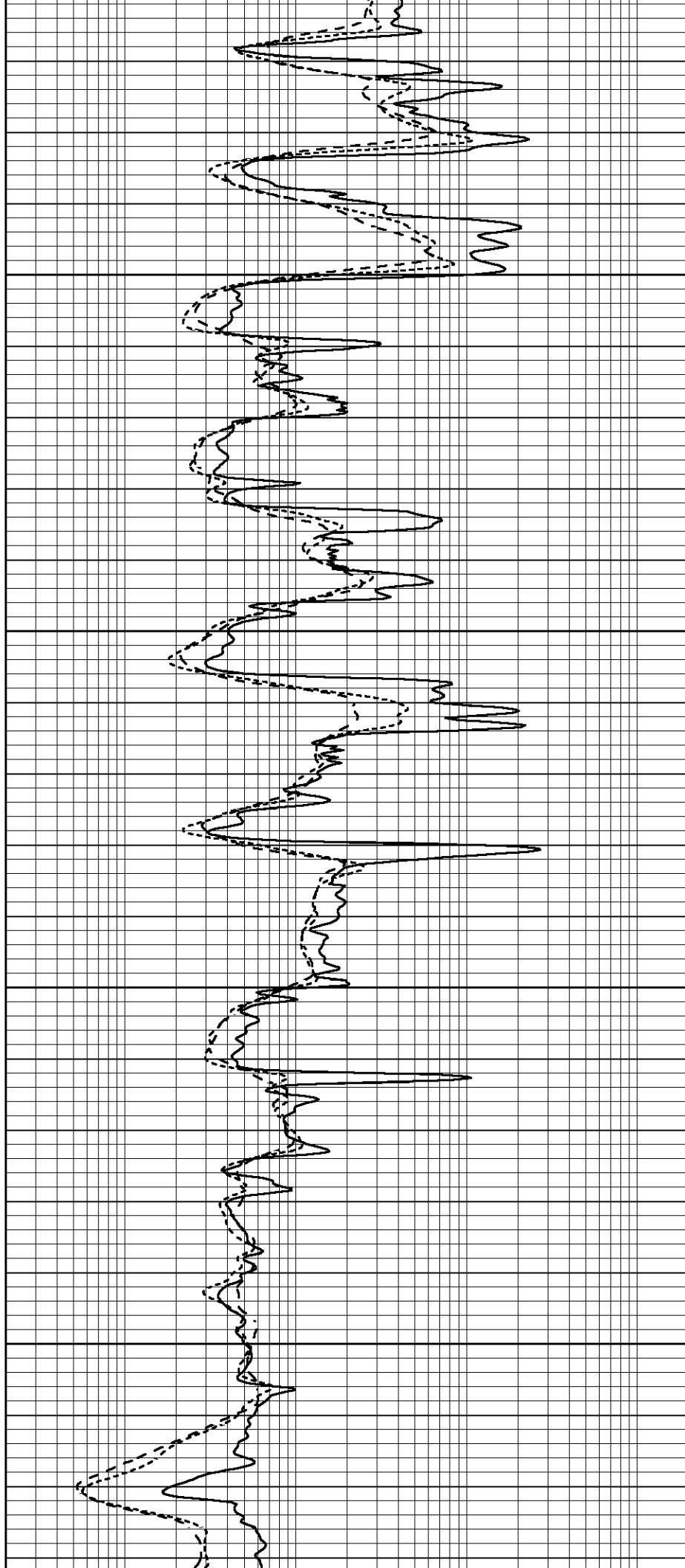


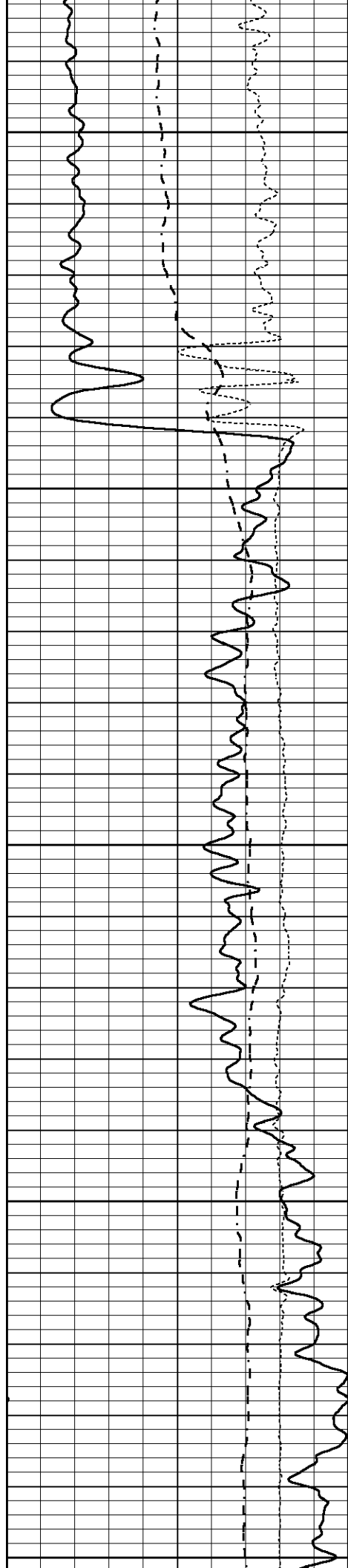
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3650

3700

3750





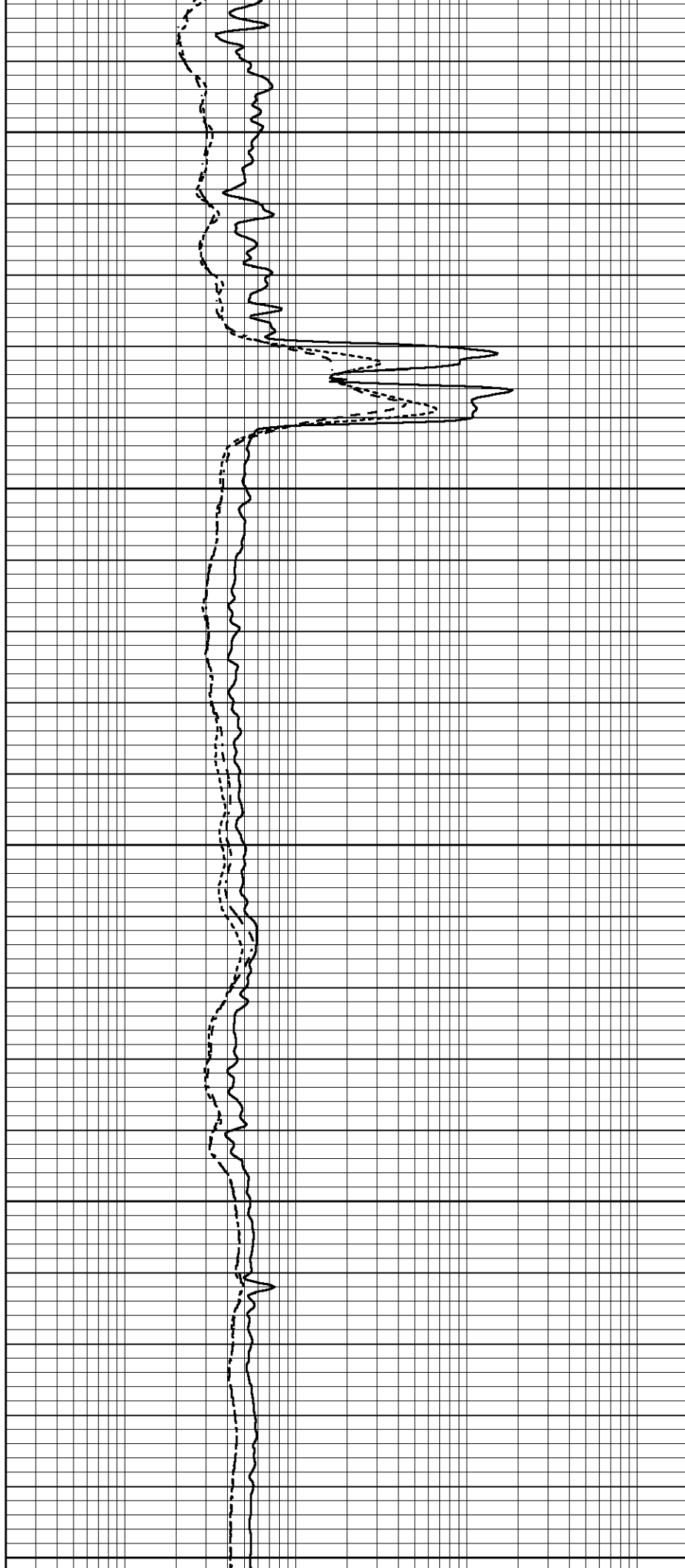
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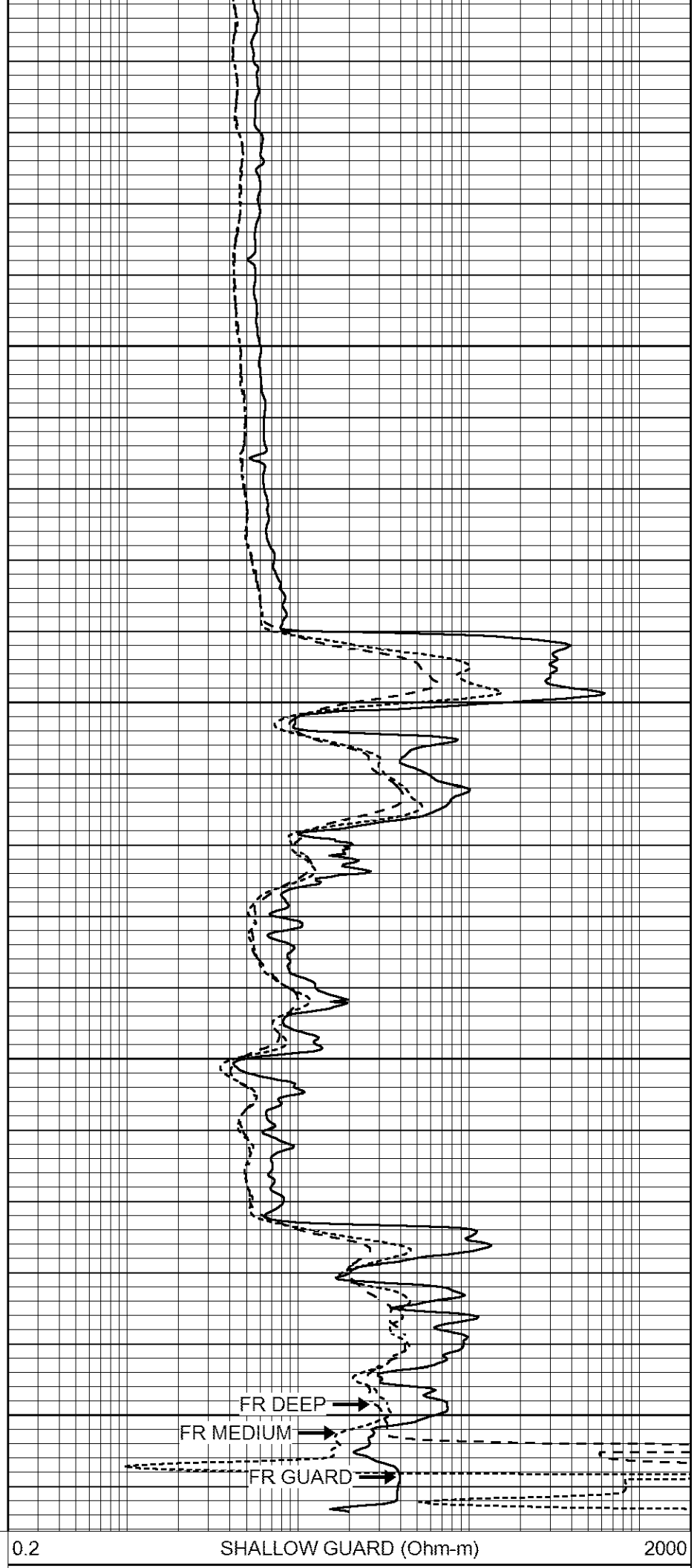
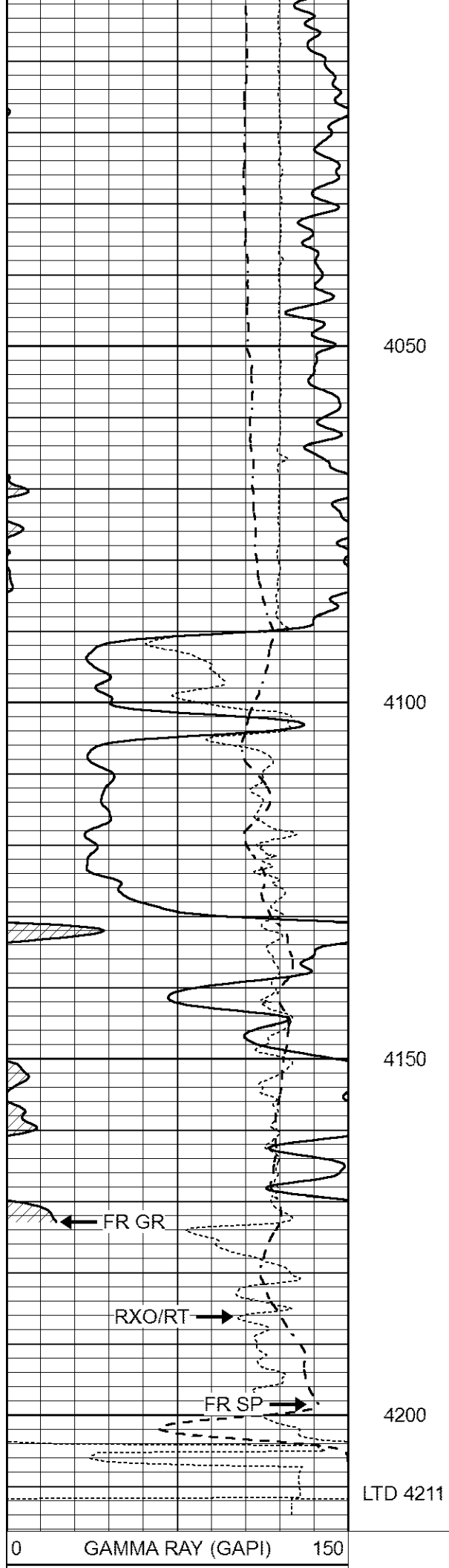
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3900

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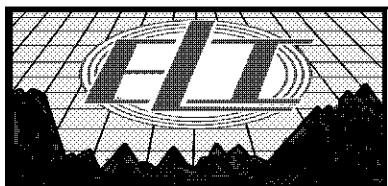
4000





-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

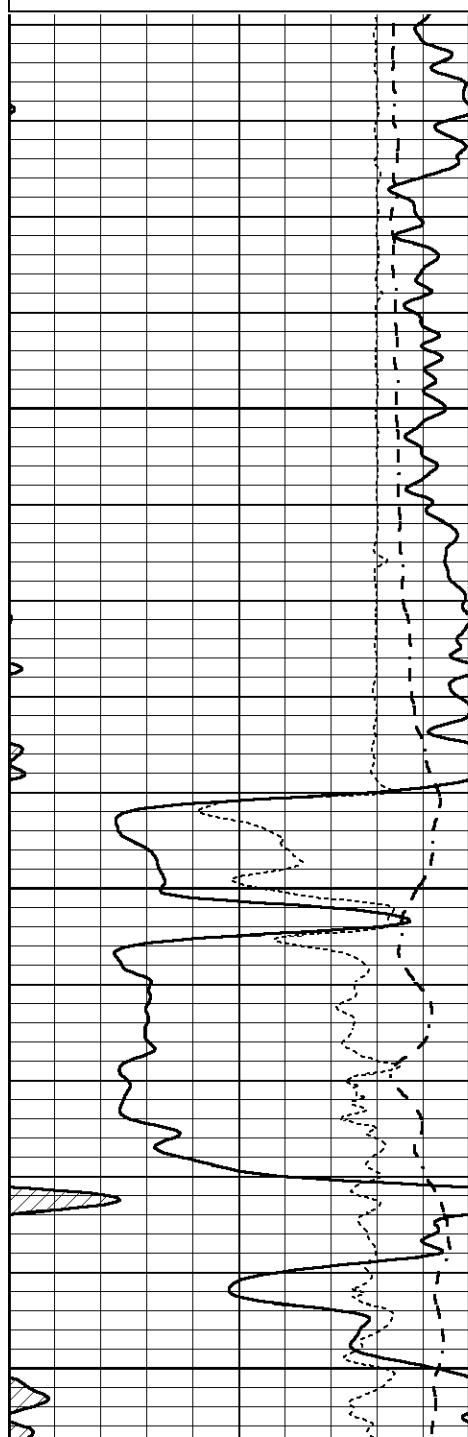


REPEAT SECTION

Database File 6772pe.db
 Dataset Pathname pass2R
 Presentation Format _dil
 Dataset Creation Wed Aug 17 13:00:42 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

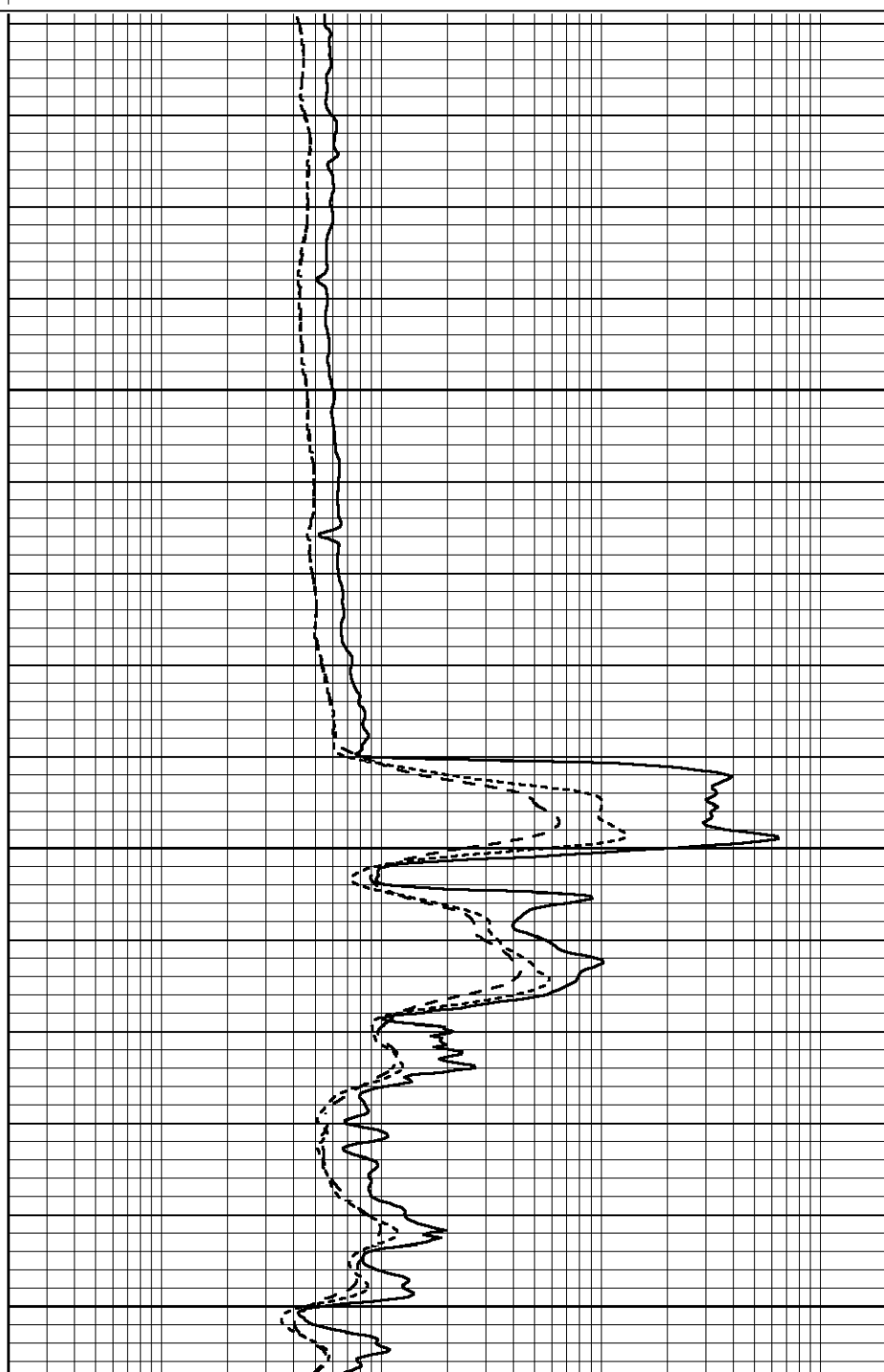
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

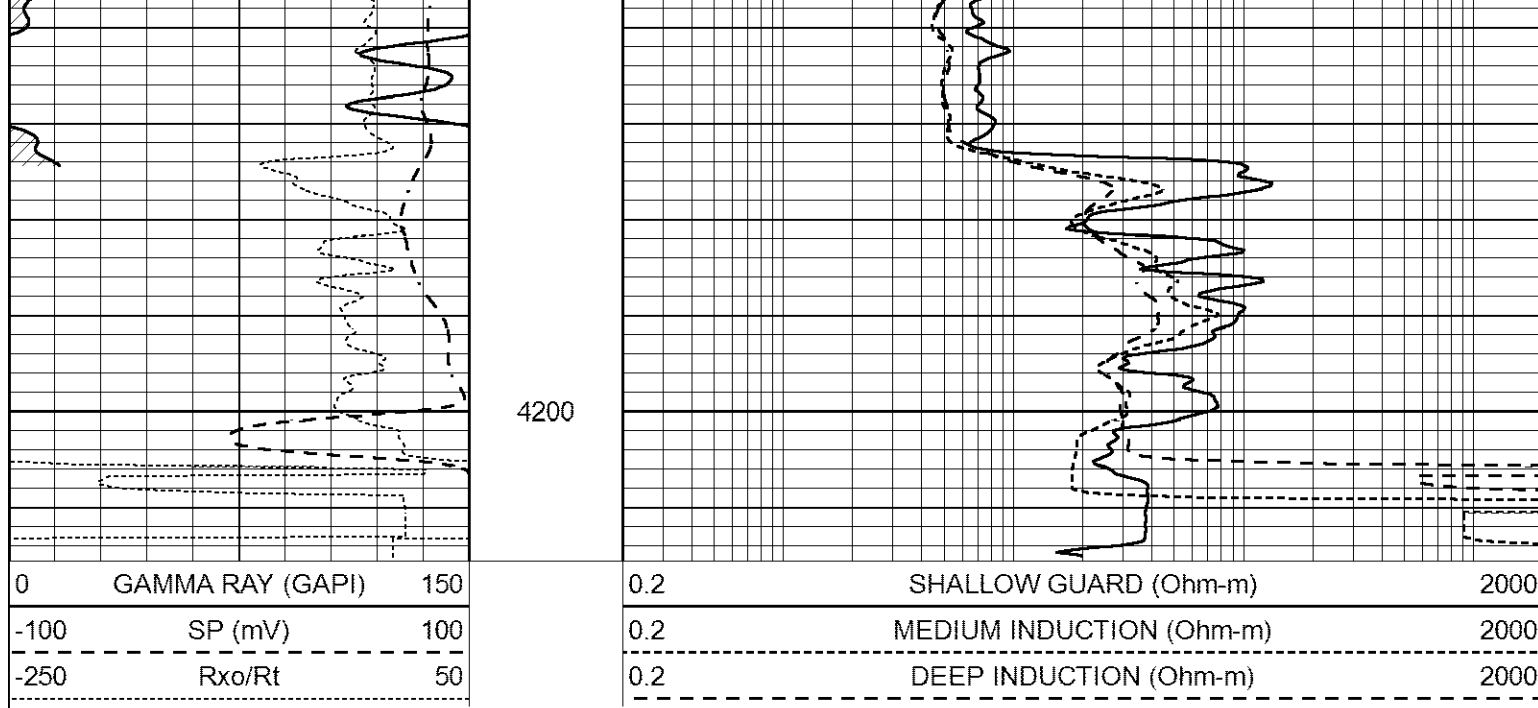


4050

4100

4150





Calibration Report									
Database File		6772pe.db							
Dataset Pathname		pass3M							
Dataset Creation		Wed Aug 17 12:44:05 2022							
Dual Induction Calibration Report									
Serial-Model:					FW1410-55-Probe				
Surface Cal Performed:					Thu Jun 30 01:48:00 2022				
Downhole Cal Performed:					Tue Feb 19 11:44:24 2019				
After Survey Verification Performed:					Tue Feb 19 11:44:27 2019				
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	600.000	-3.000	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	600.000	-10.500	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595	
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099	
LL3		7.503	V		1500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3745.000	mmho-m			
After Survey Verification									
		Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000	

LL3	0.000	Ohm-m	1500.000	Ohm-m
	0.000	Ohm-m	20.000	Ohm-m
	0.000	mmho-m	3745.000	mmho-m

Litho Density Calibration Report Serial: 140704 Model: V4_10P Source Number: 74GBq-19				
--	--	--	--	--

Master Calibration			Performed: Wed Jul 20 12:36:34 2022		
	Background	Aluminum	Magnesium		
Window 1	503.67	5439.20	23645.11	cps	
Window 2	40.11	1218.66	5702.60	cps	
Window 4	221.18	1240.69	5295.43	cps	
Window 5	542.56	7631.48	14305.13	cps	
Window 6	41.67	1209.53	2345.40	cps	
Window 8	256.91	2493.92	4591.85	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8302	SS Alpha:	: -0.7503	LS CPE:	: 1.1699
LS Beta:	: 122464.5983	SS Beta:	: 16307.0478	SS CPE:	: 1.6095

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps		
Window 2	0.00	cps		
Window 4	0.00	cps		
Window 5	0.00	cps		
Window 6	0.00	cps		
Window 8	0.00	cps		

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps		
Window 2	0.00	cps		
Window 4	0.00	cps		
Window 5	0.00	cps		
Window 6	0.00	cps		
Window 8	0.00	cps		

Lithodensity Caliper Calibration				Performed: Wed Jul 20 12:36:34 2022	
Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
11331.0	15645.5	8.0	14.0	0.0	-7.6

Before Survey Caliper Verification			Performed:	
	Reference	Reading		
Caliper (in)				

After Survey Caliper Verification			Performed:	
	Reference	Reading		

Caliper (in)

Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	7	
Tool Model:	Probe1	
Performed:	Thu May 26 08:56:46 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps