



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL INDUCTION
LOG**

Company CASTELLI EXPLORATION, INC.
Well DUNN #1-25
Field SHIMER
County COMANCHE
State KANSAS

Company CASTELLI EXPLORATION, INC.
Well DUNN #1-25
Field SHIMER
County COMANCHE State KANSAS

Location: API # : 15-033-21746-0000
480' FNL & 425' FEL
SW - NE - NE - NE
Permanent Datum GROUND LEVEL Elevation 1832
Log Measured From KELLY BUSHING 12' A.G.L.
Drilling Measured From KELLY BUSHING
SEC 25 TWP 33S RGE 17W
Other Services
CDL/CNL/PE
MEL
Elevation
K.B. 1844
D.F. 1842
G.L. 1832

Date	2/8/14		
Run Number	ONE		
Depth Driller	5750		
Depth Logger	5730		
Bottom Logged Interval	5728		
Top Log Interval	00		
Casing Driller	13 3/8" @ 308'		
Casing Logger	308		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.1/55		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.40 @ 50F		
Rmf @ Meas. Temp	1.05 @ 50F		
Rmc @ Meas. Temp	1.68 @ 50F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.530 @ 132F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	132F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TOM CASTELLI	RICK POPP	

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
COLDWATER, KS. 9E. ON HWY 160 TO (MM #193)"RD.22", 4S. TO STOP SIGN, 1E. TO "RD.23", 5S. TO CURVE, 1 1/2E. TO FENCE, FOLLOW TRAIL 1 MILE, N. & E. & S. AROUND OLD FARMSTEAD TO LOCATI



MAIN SECTION

Database File: 22248pe.db
 Dataset Pathname: pass3.5
 Presentation Format: dil2
 Dataset Creation: Sat Feb 08 21:30:05 2014
 Charted by: Depth in Feet scaled 1:600

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

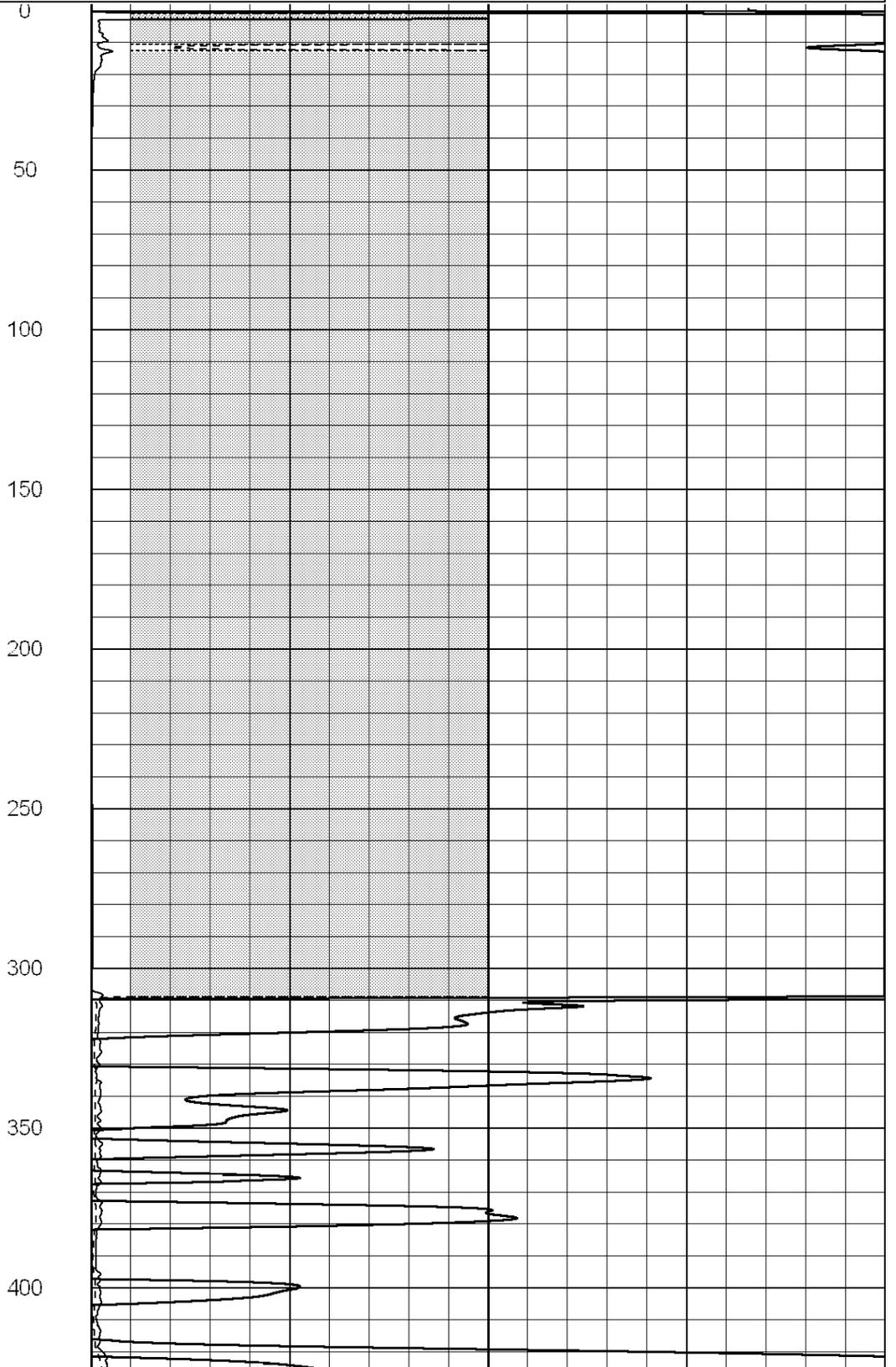
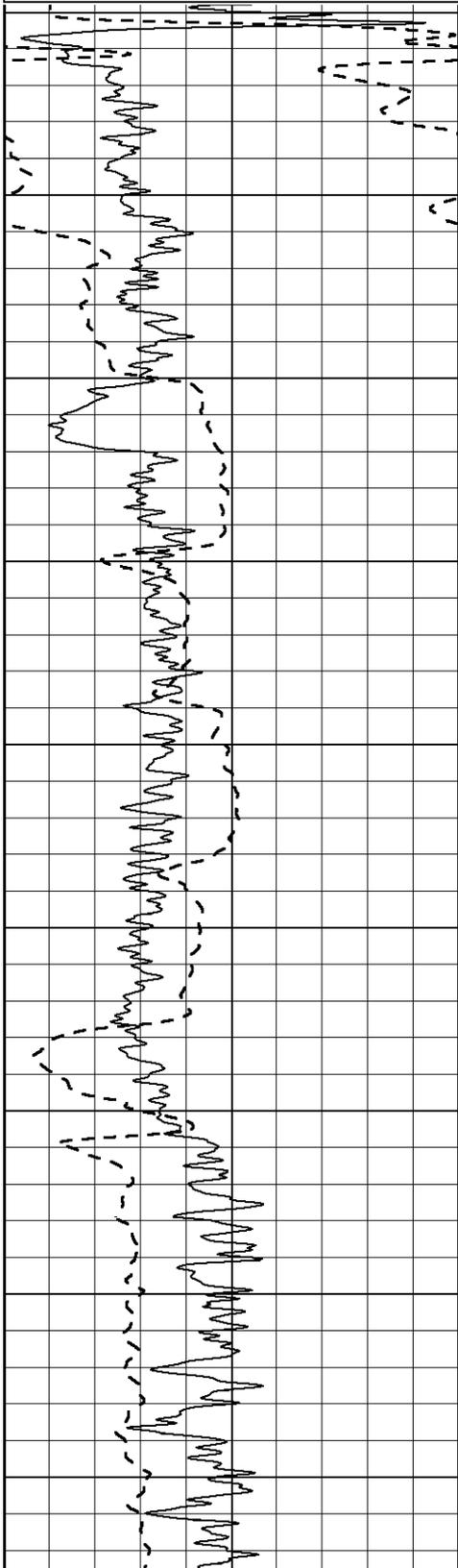
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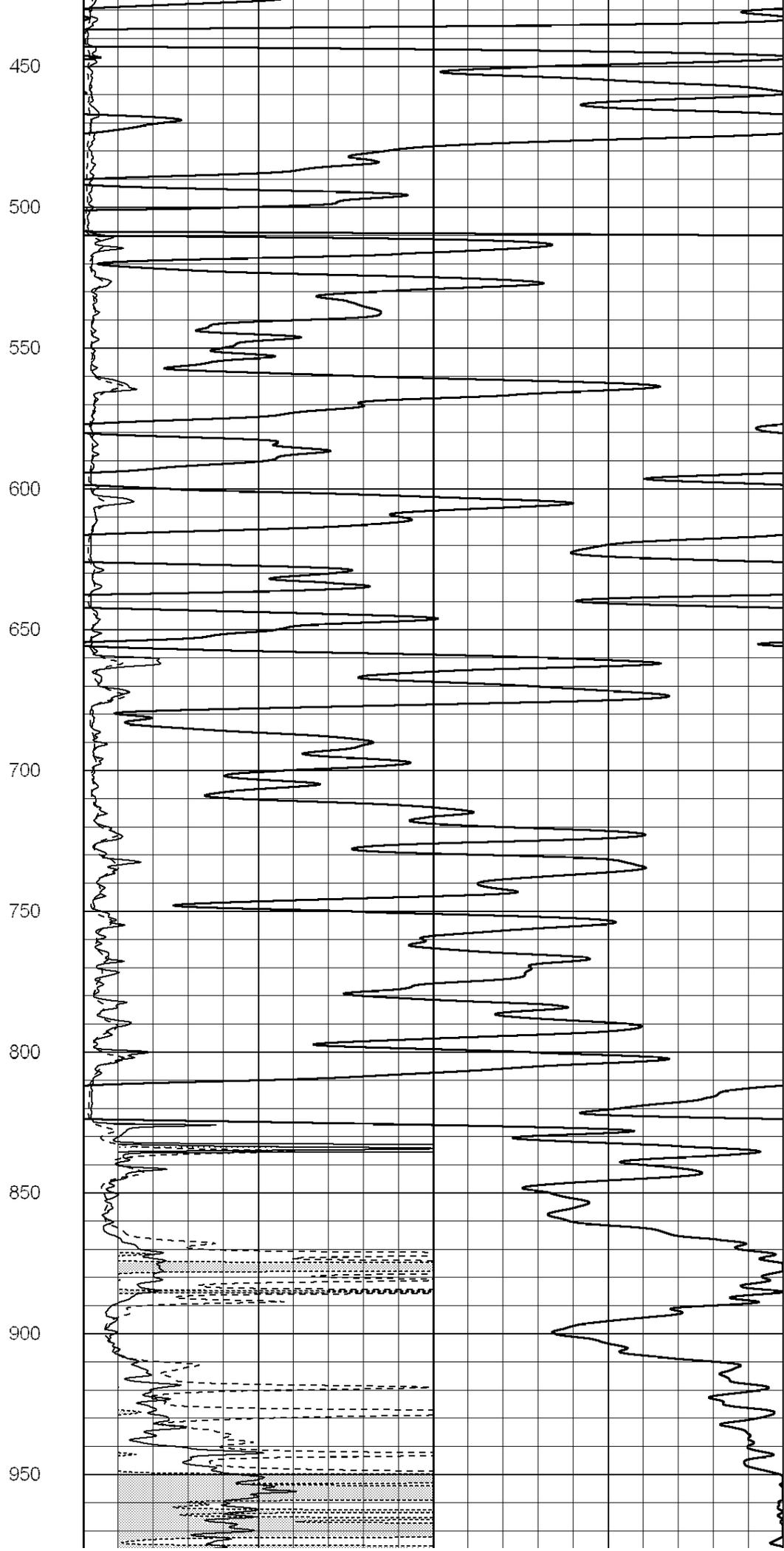
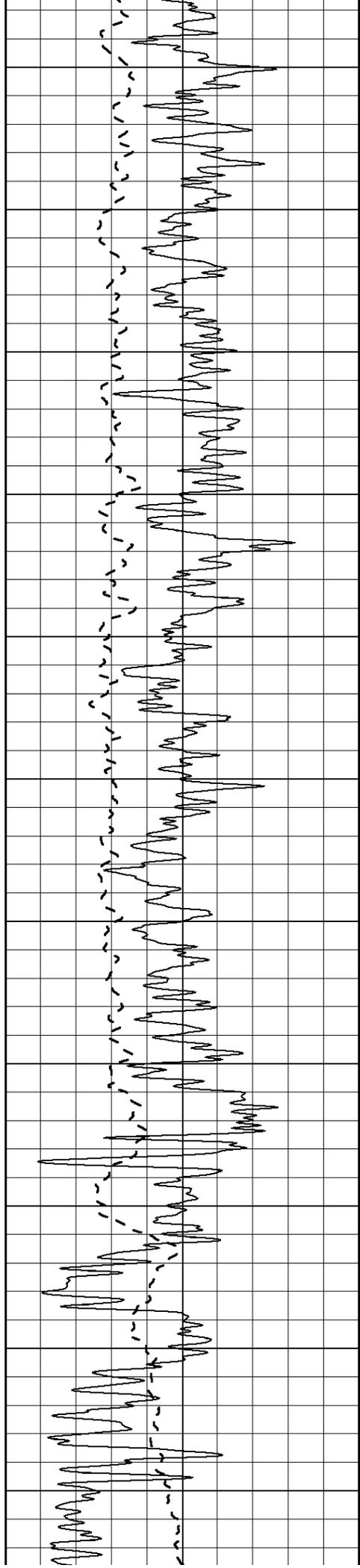
0	RILD (Ohm-m)	50
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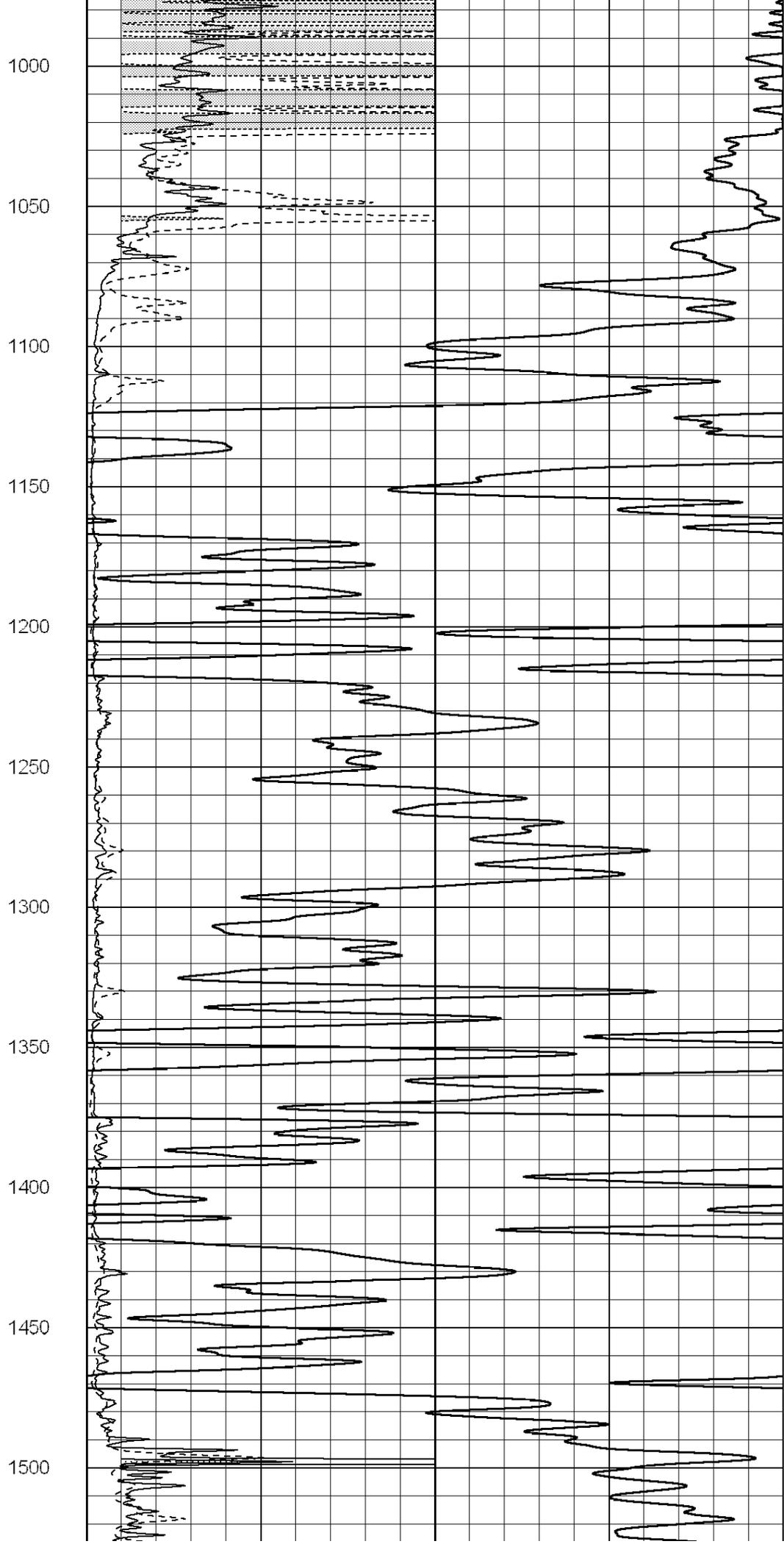
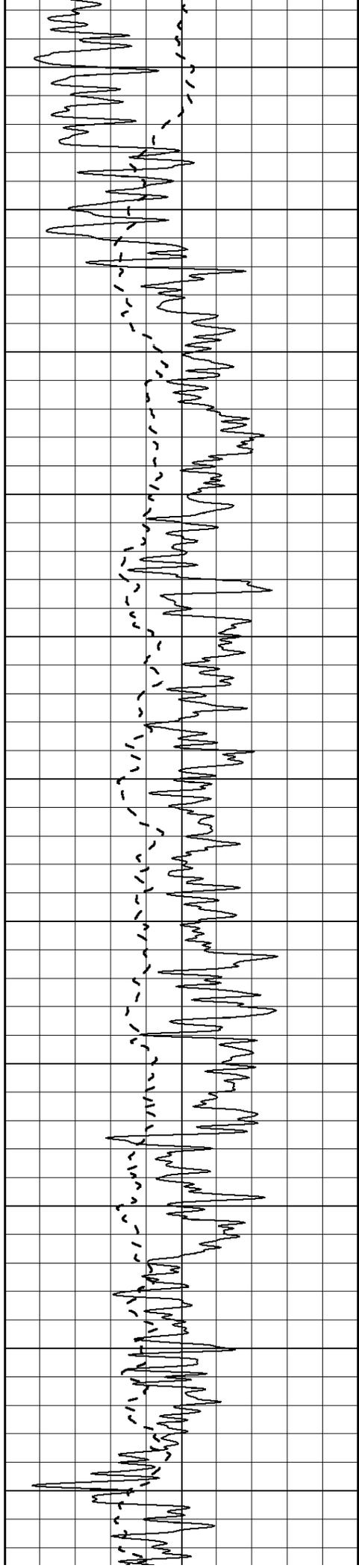
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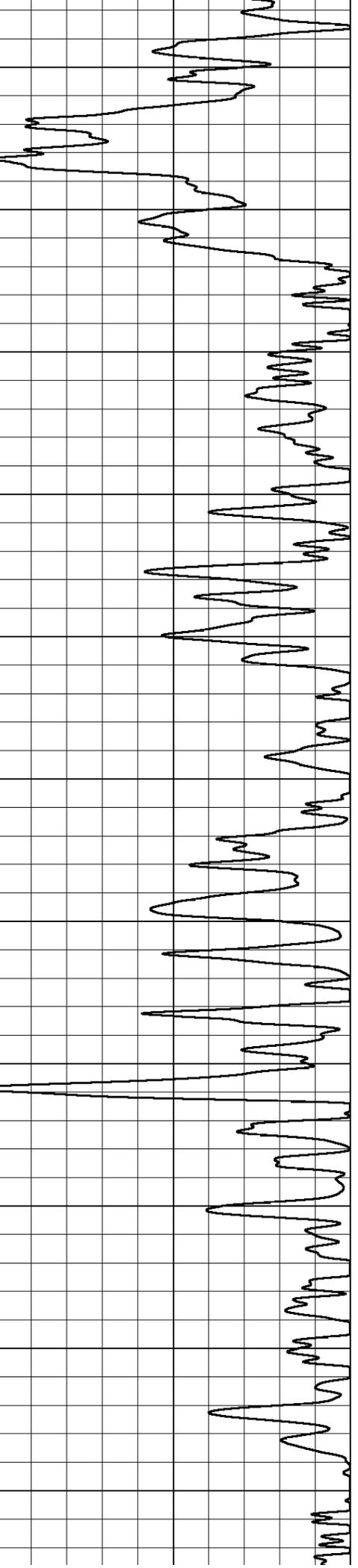
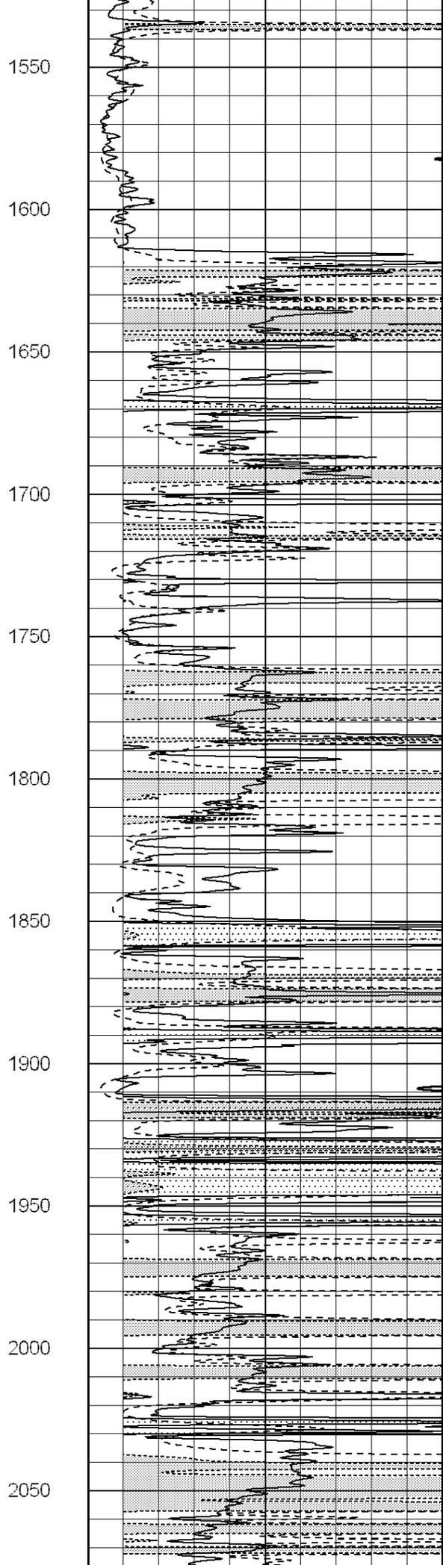
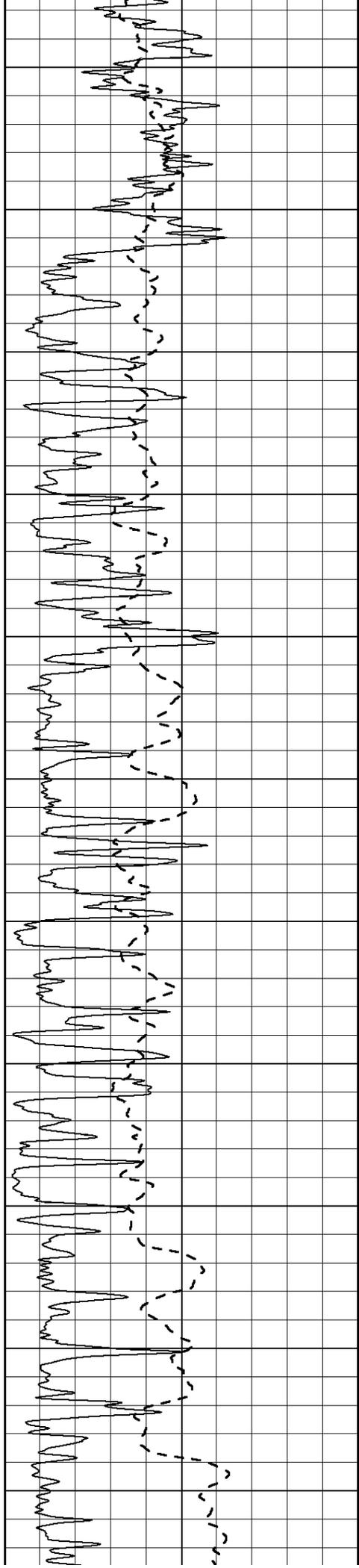
50	RILD X10 (Ohm-m)	500
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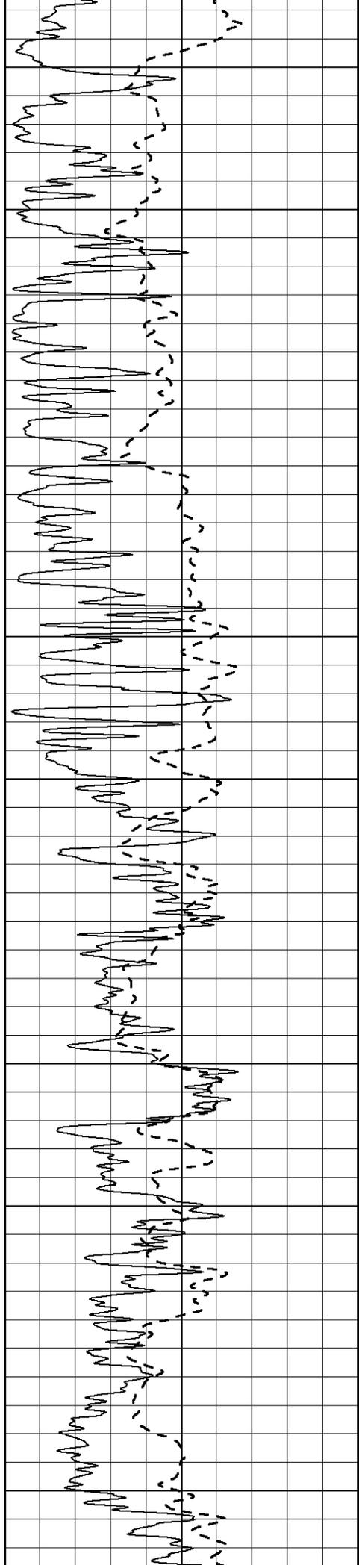
50	RLL3 X10 (Ohm-m)	500
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2100

2150

2200

2250

2300

2350

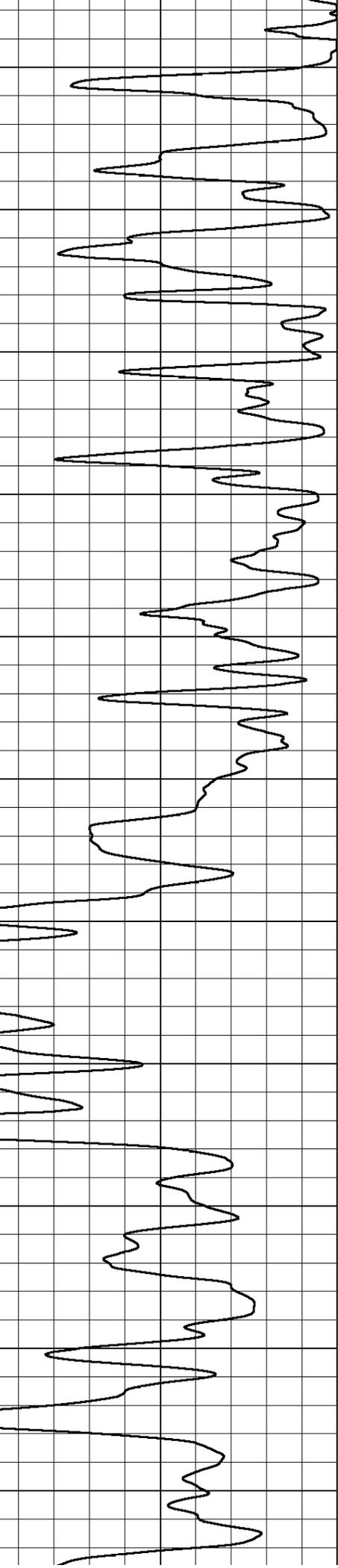
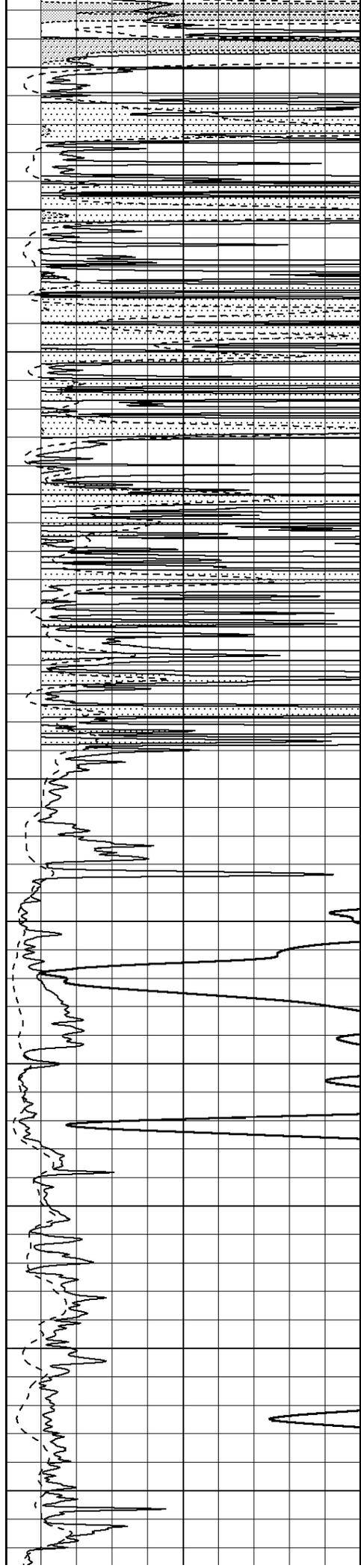
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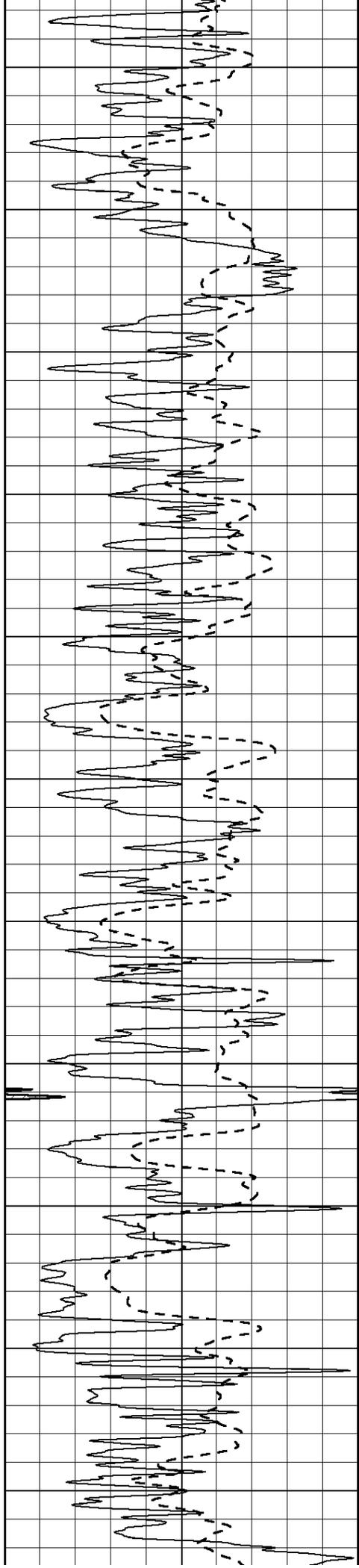
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2500

2550

2600





2650

2700

2750

2800

2850

2900

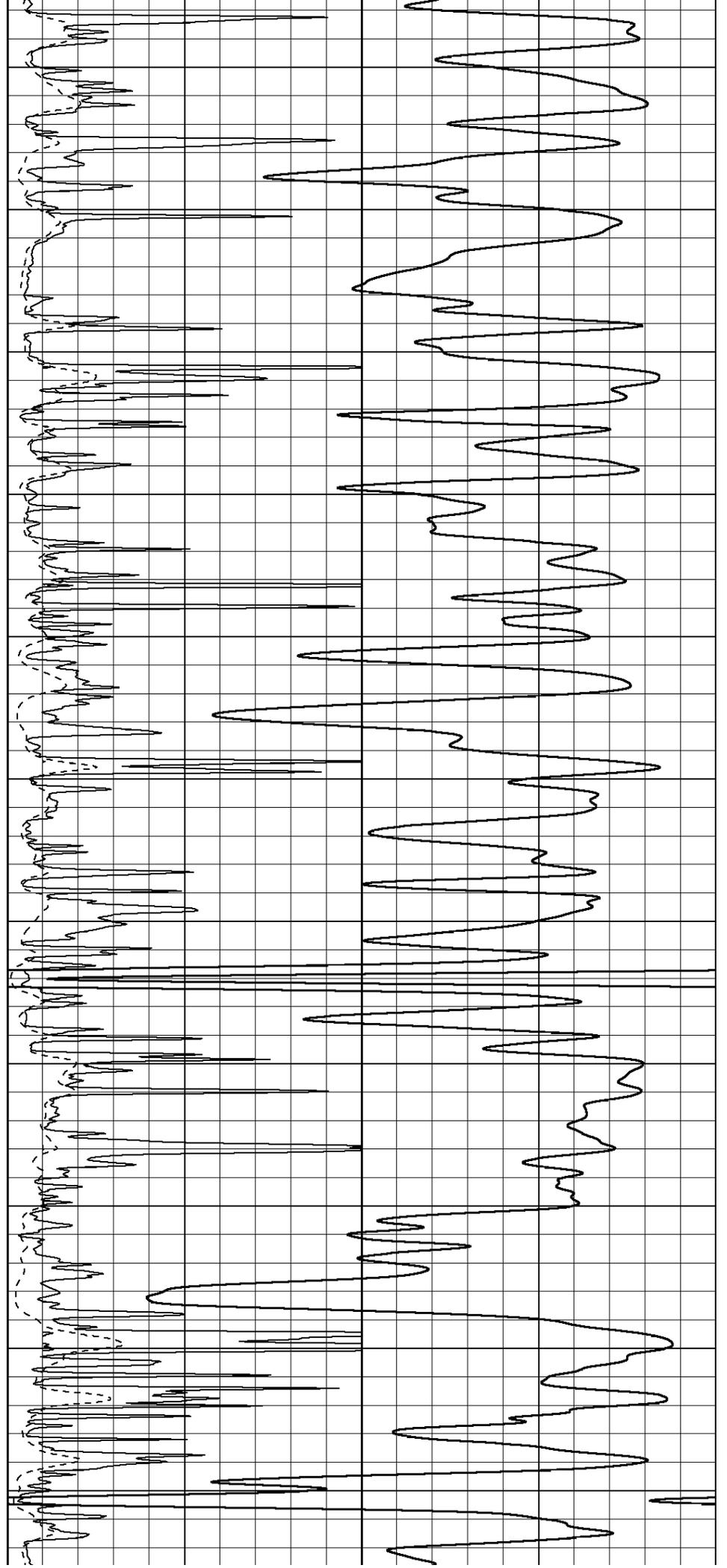
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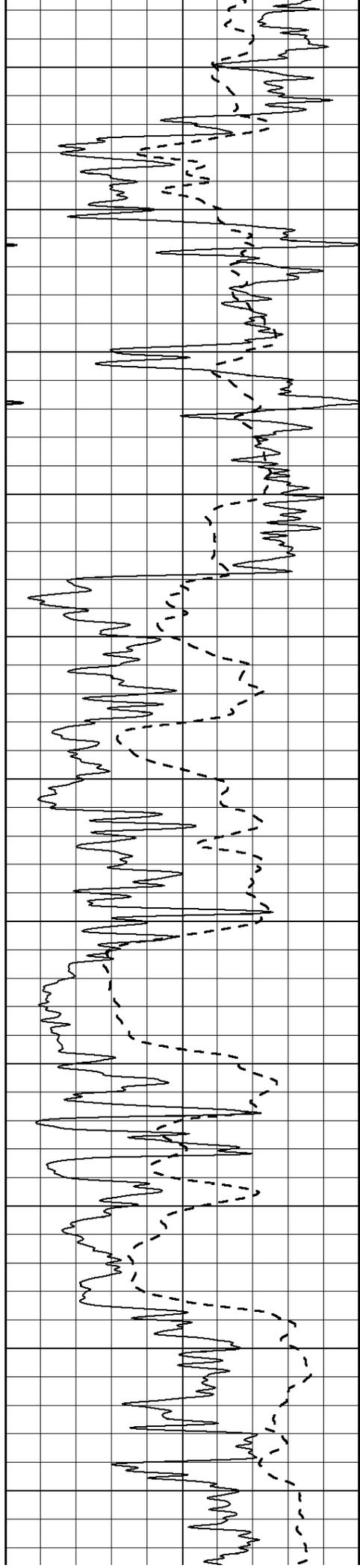
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3050

3100

3150





3200

3250

3300

3350

3400

3450

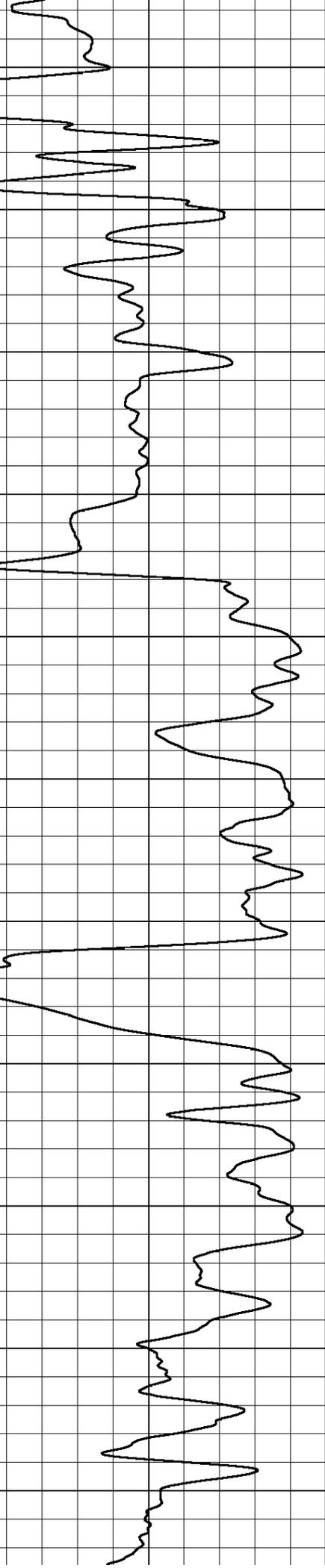
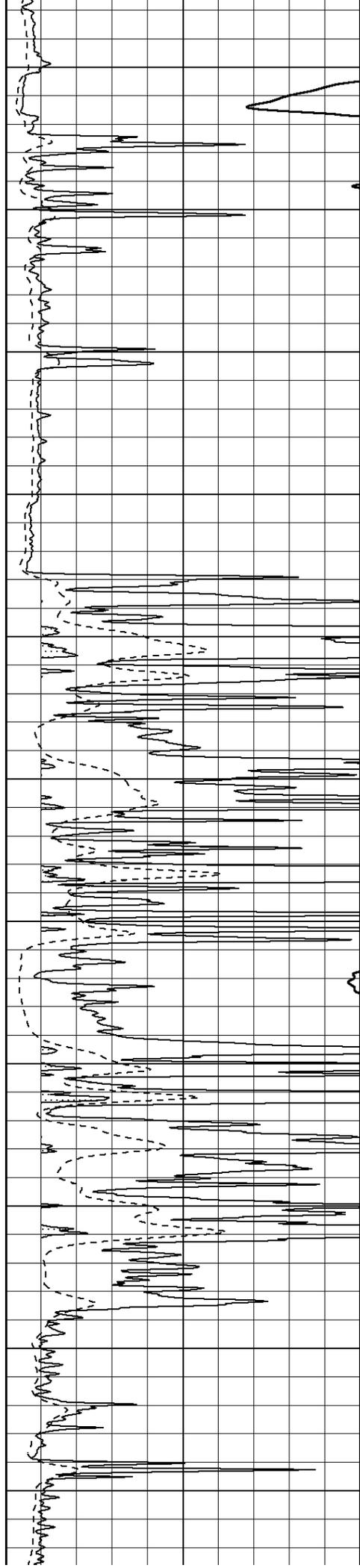
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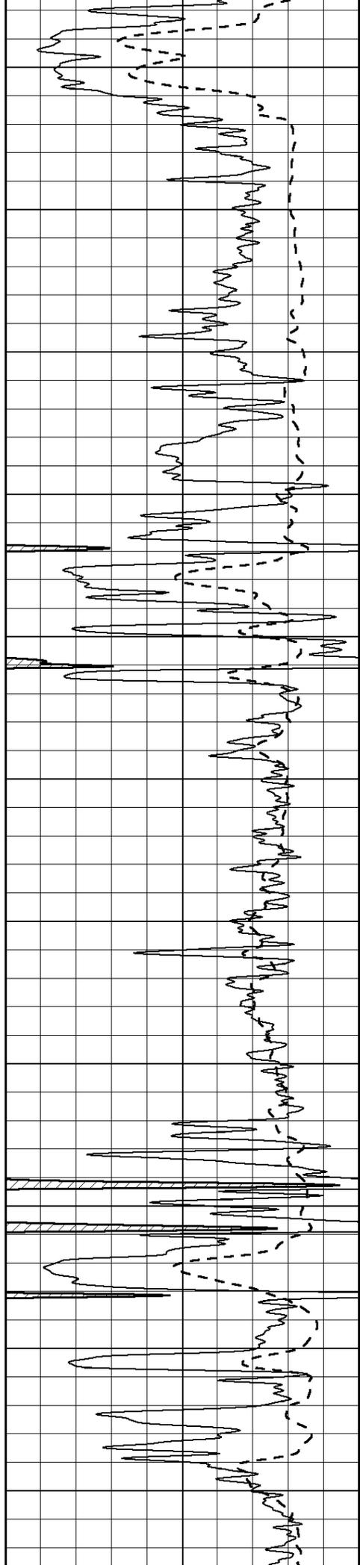
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3600

3650

3700





3750

3800

3850

3900

3950

4000

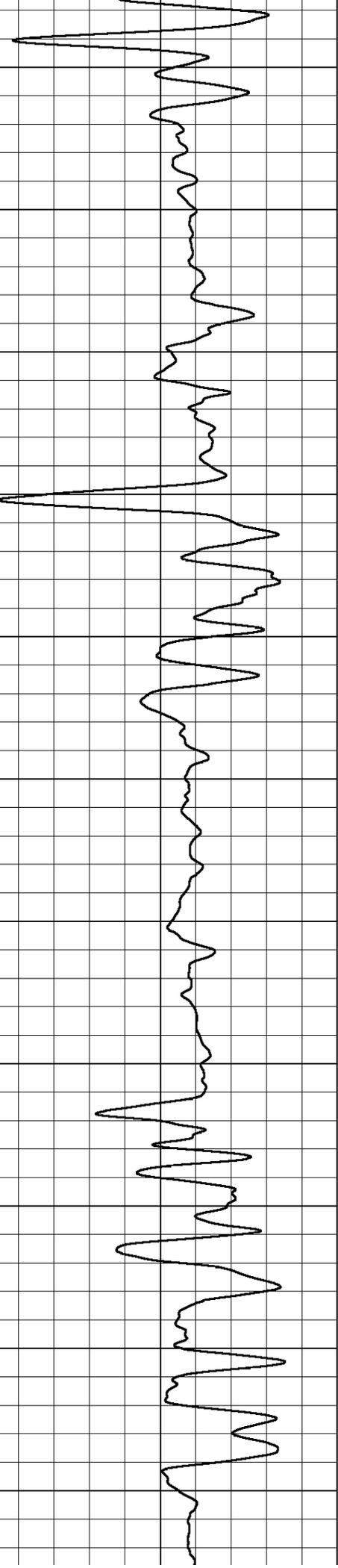
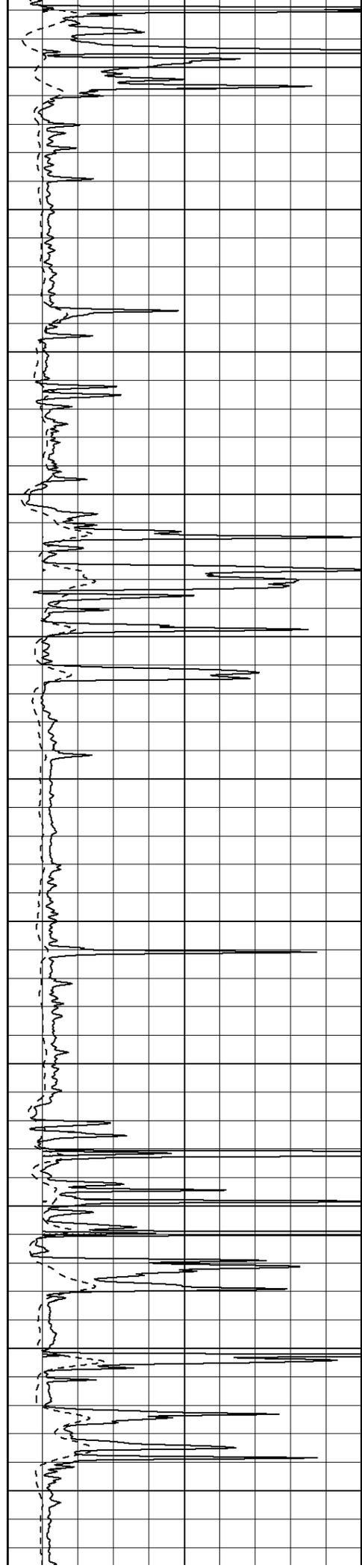
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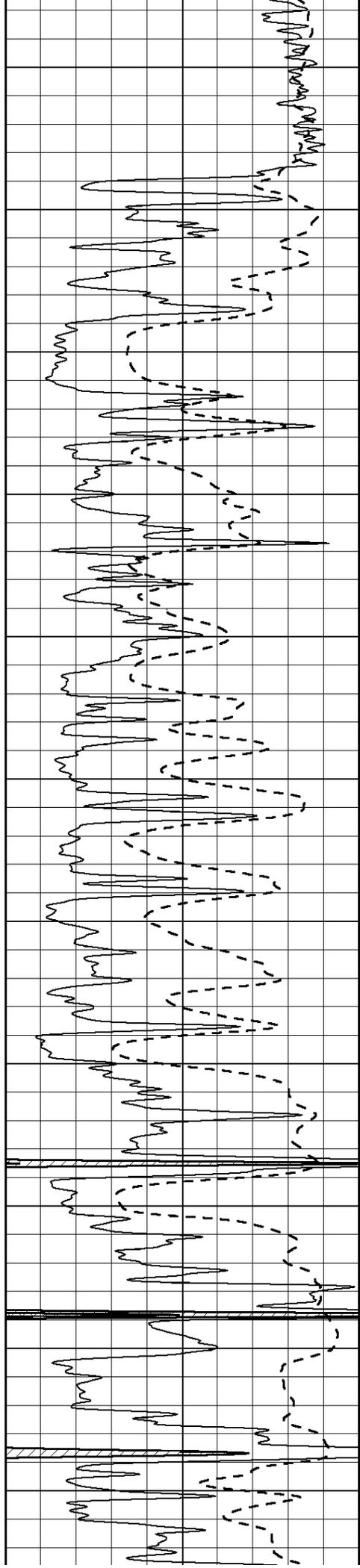
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4150

4200

4250





4300

4350

4400

4450

4500

4550

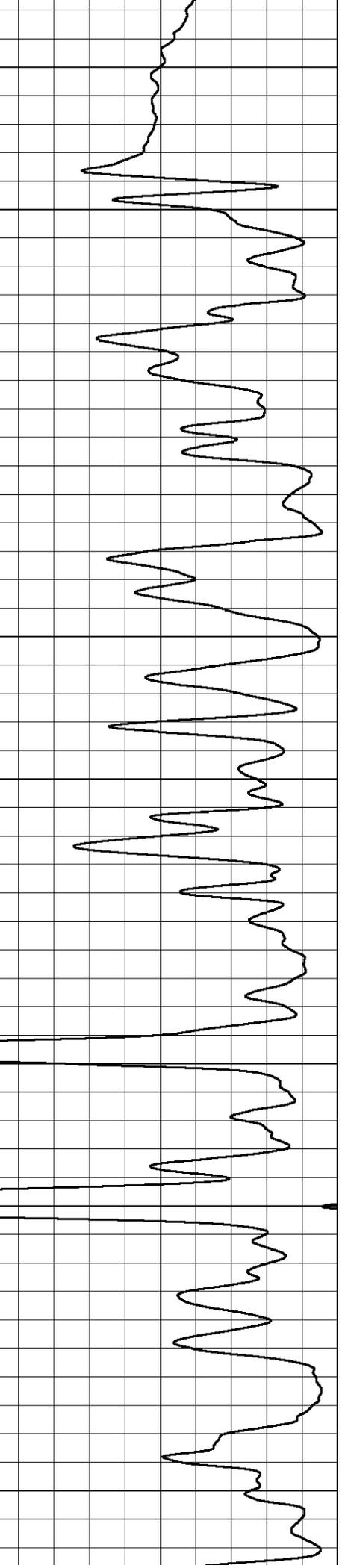
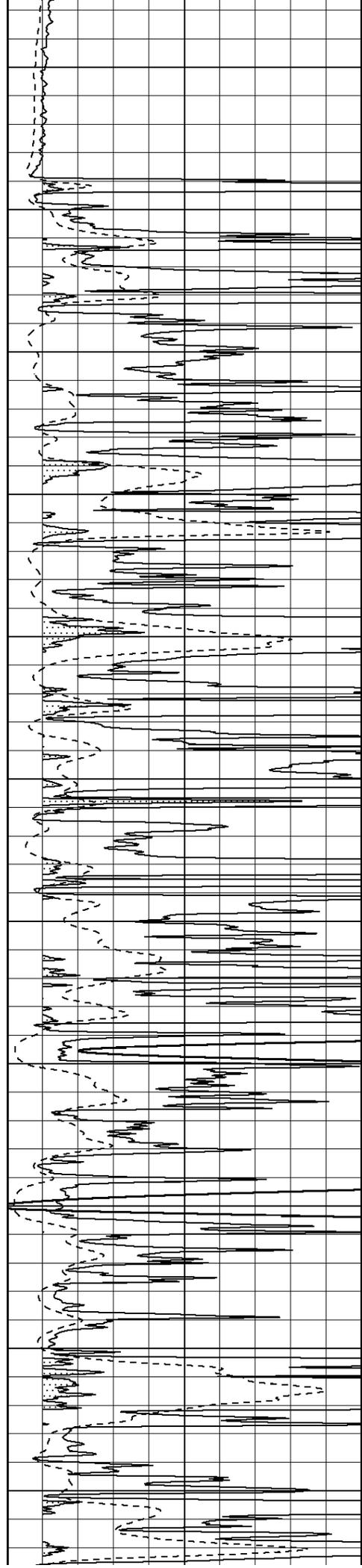
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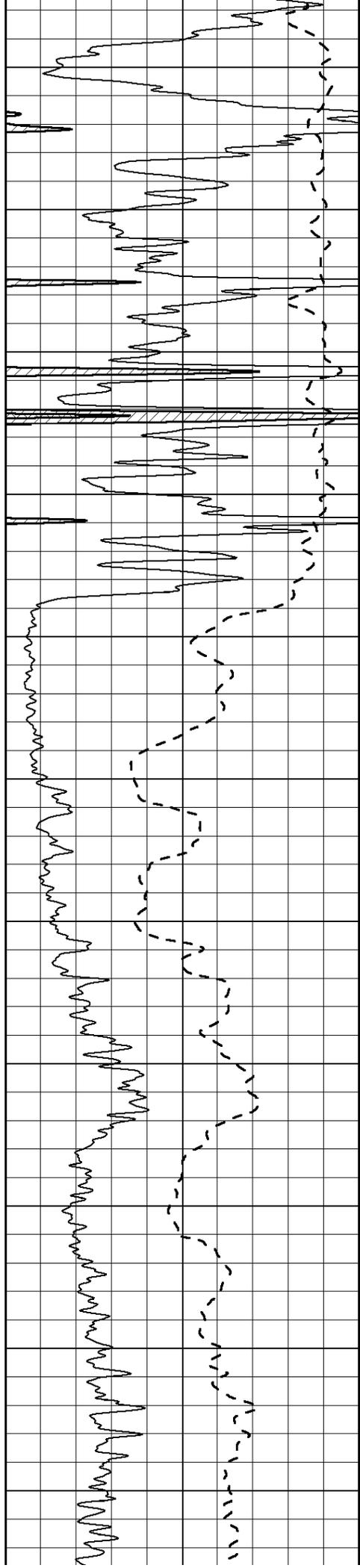
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4700

4750

4800





4850

4900

4950

5000

5050

5100

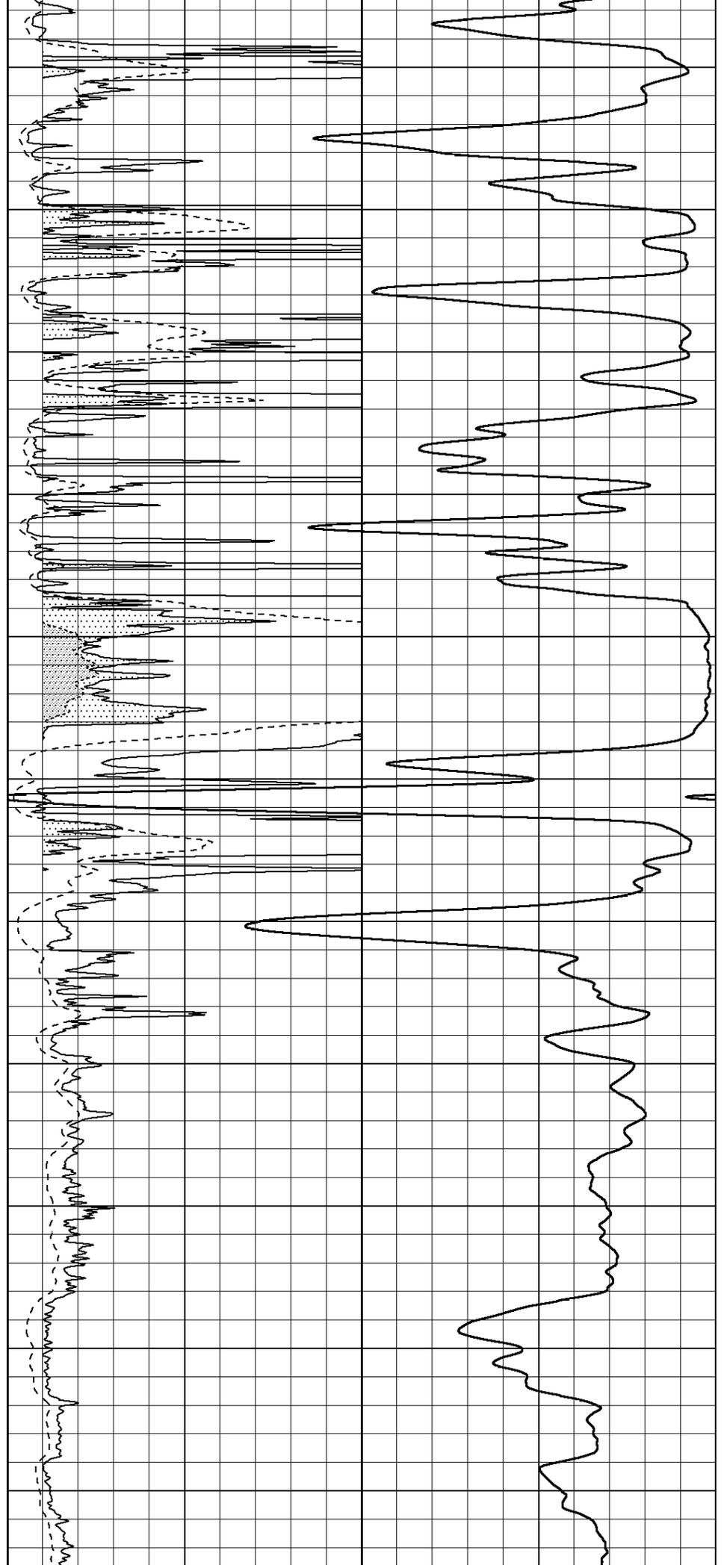
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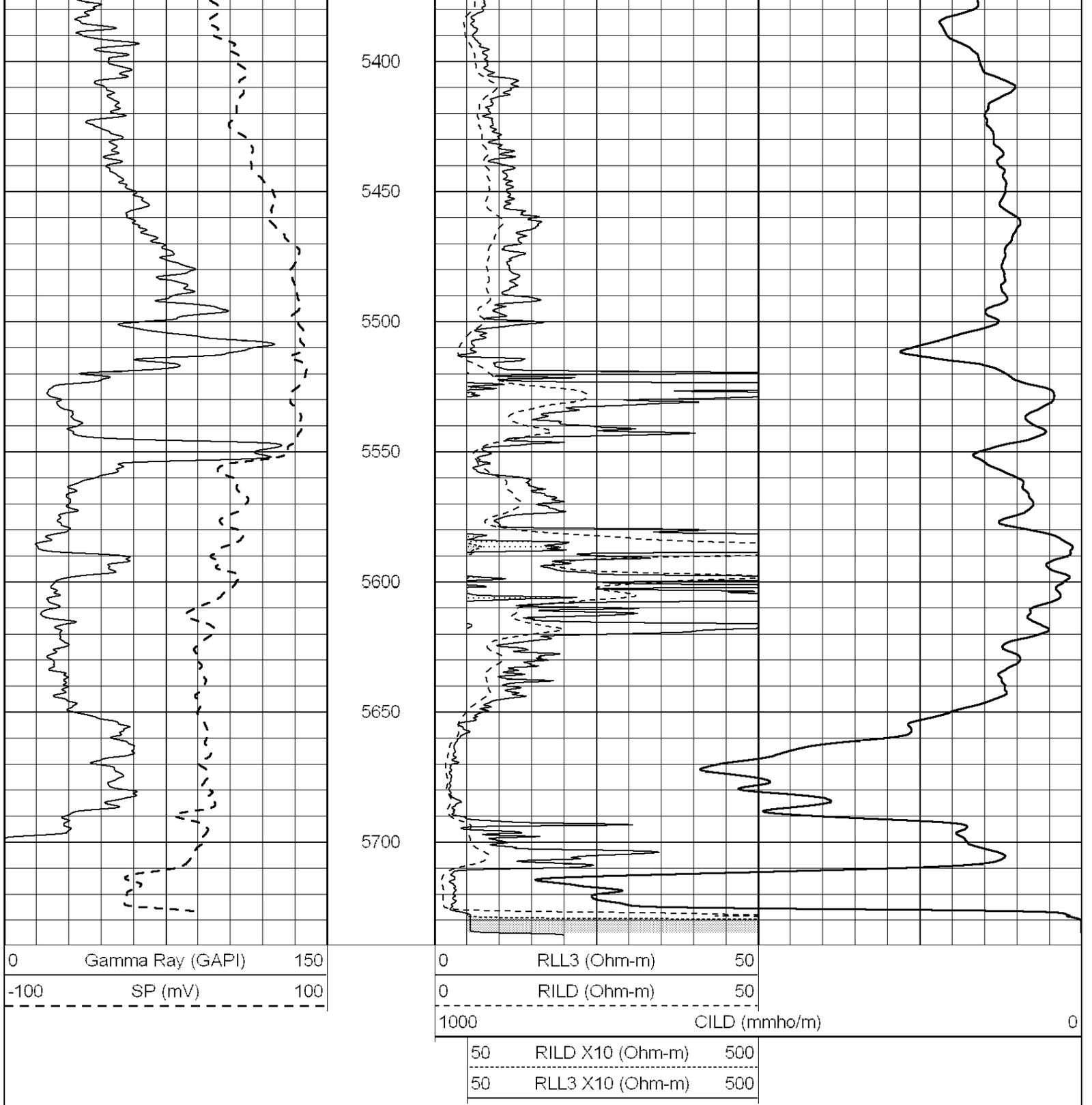
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5300

5350



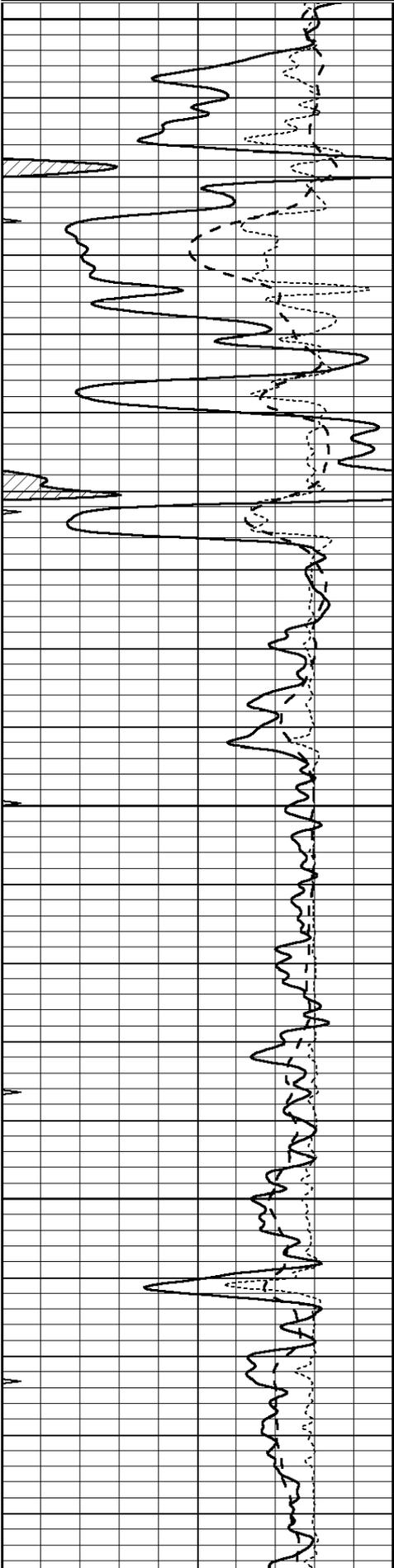


MAIN SECTION

Database File: 22248pe.db
 Dataset Pathname: pass3.5
 Presentation Format: dil
 Dataset Creation: Sat Feb 08 21:30:05 2014
 Charted by: Depth in Feet scaled 1:240

-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

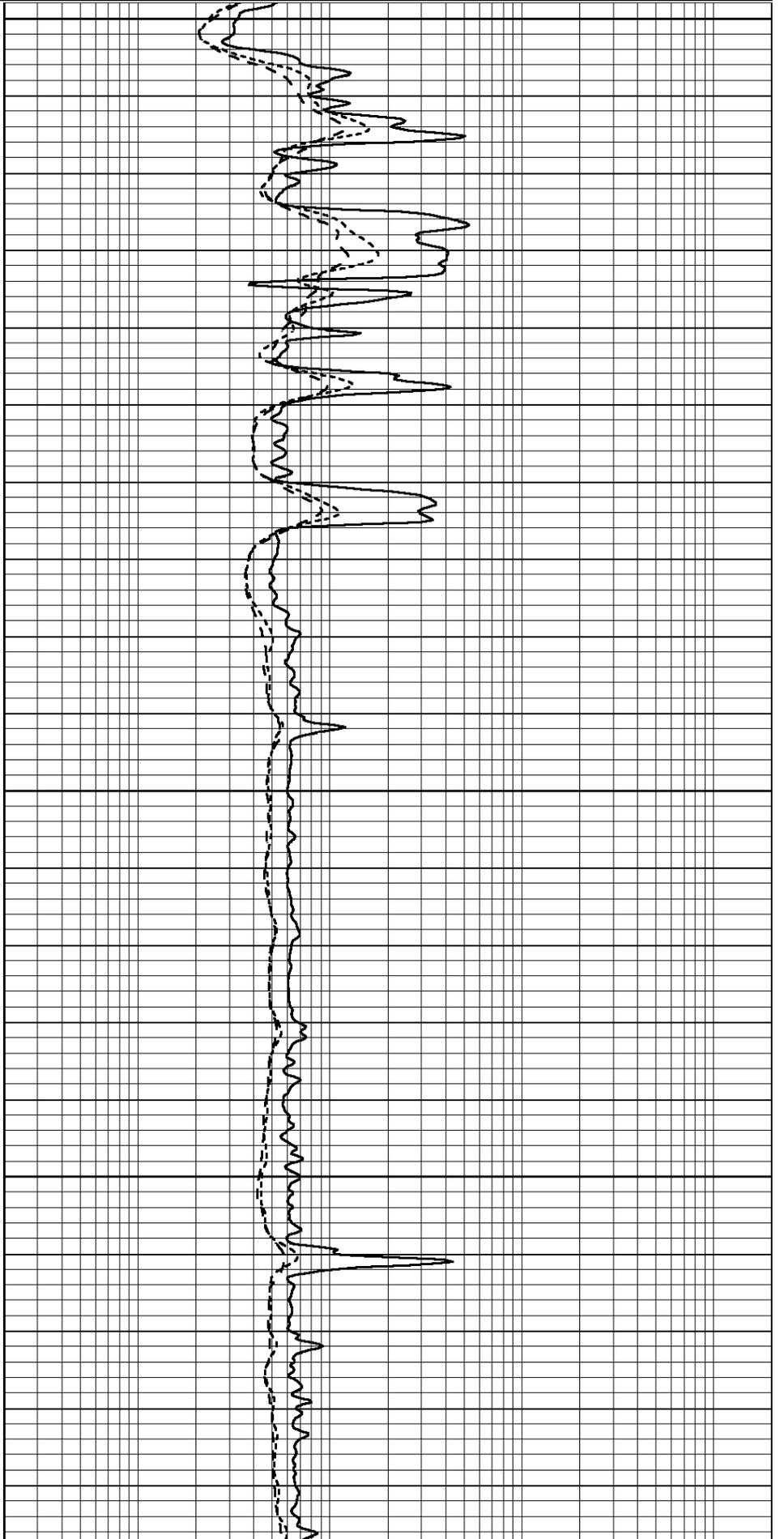


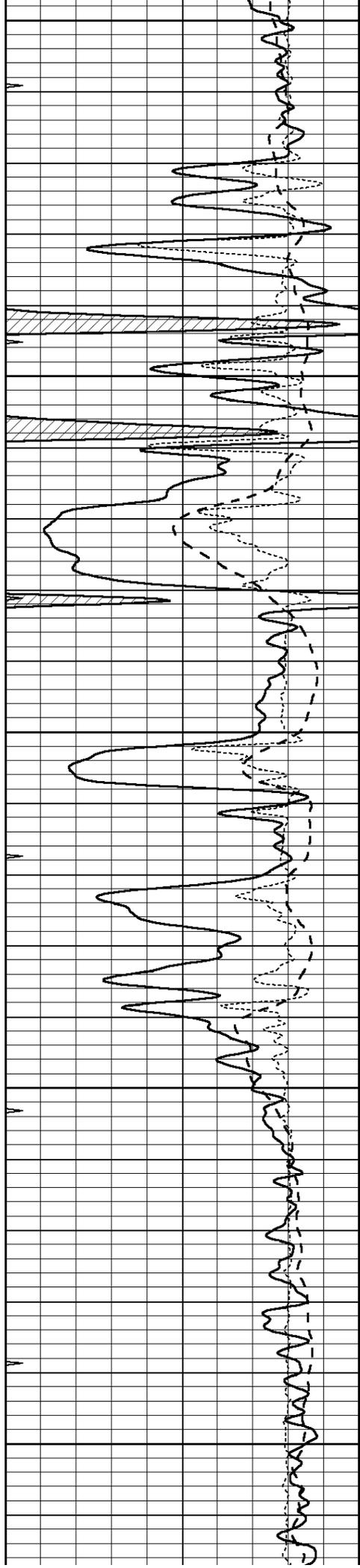
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3950

4000

4050





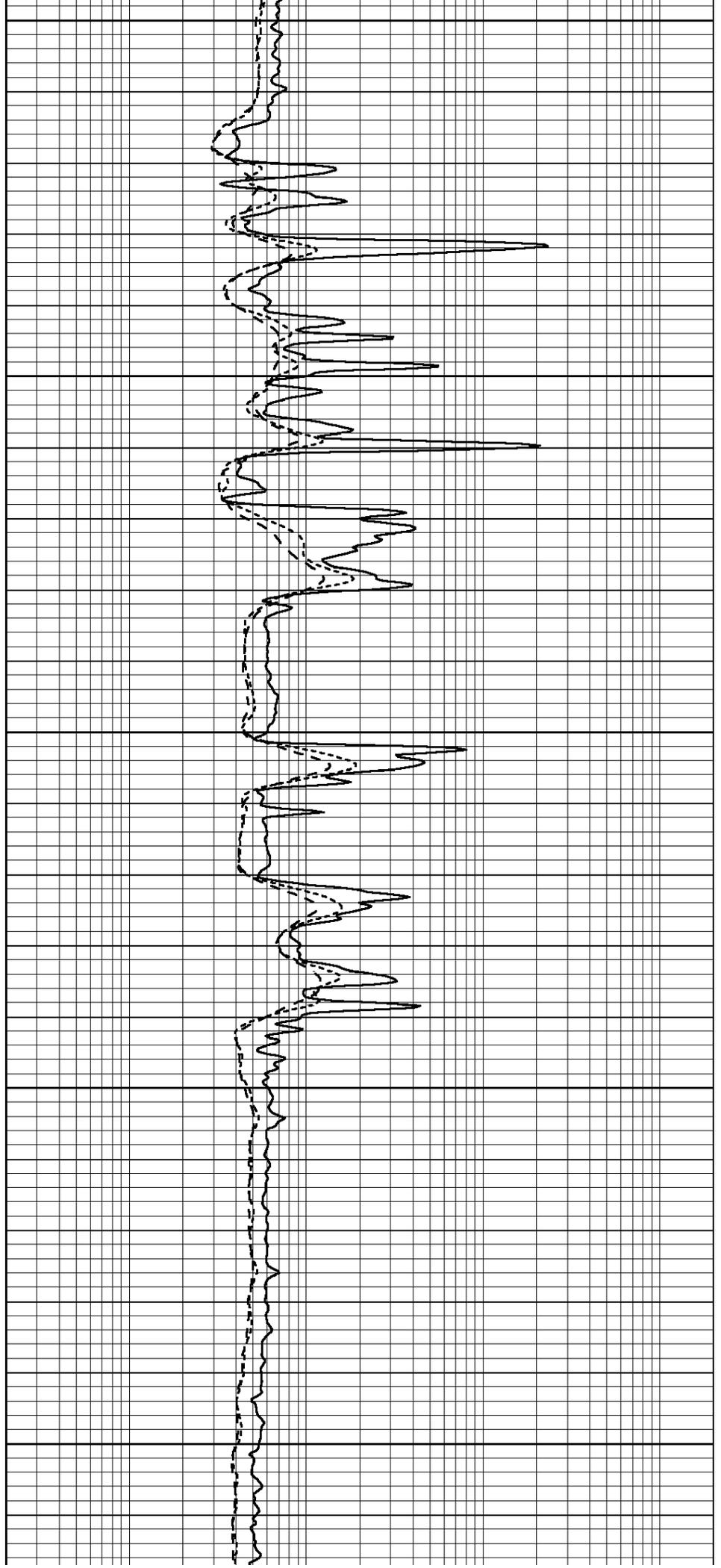
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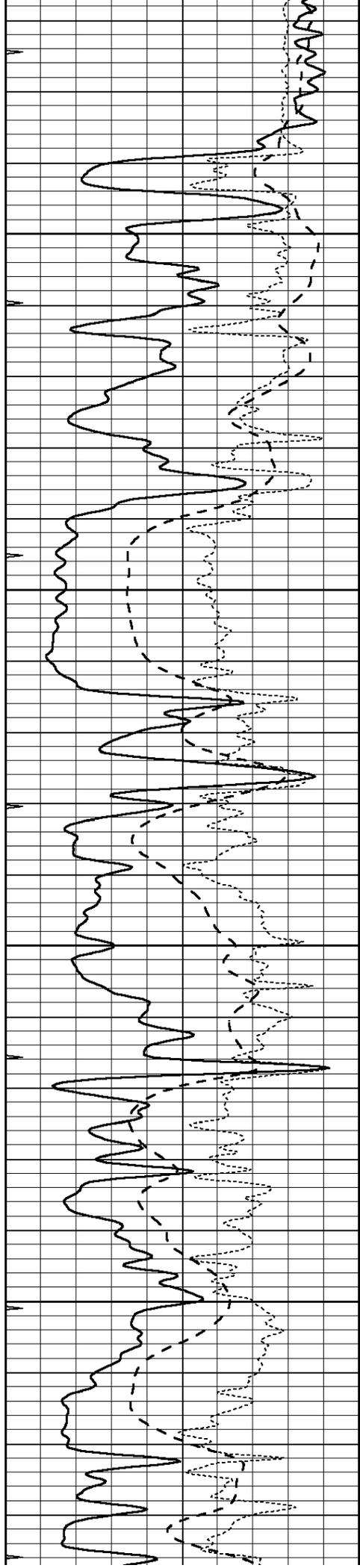
4150

4200

4250

4300



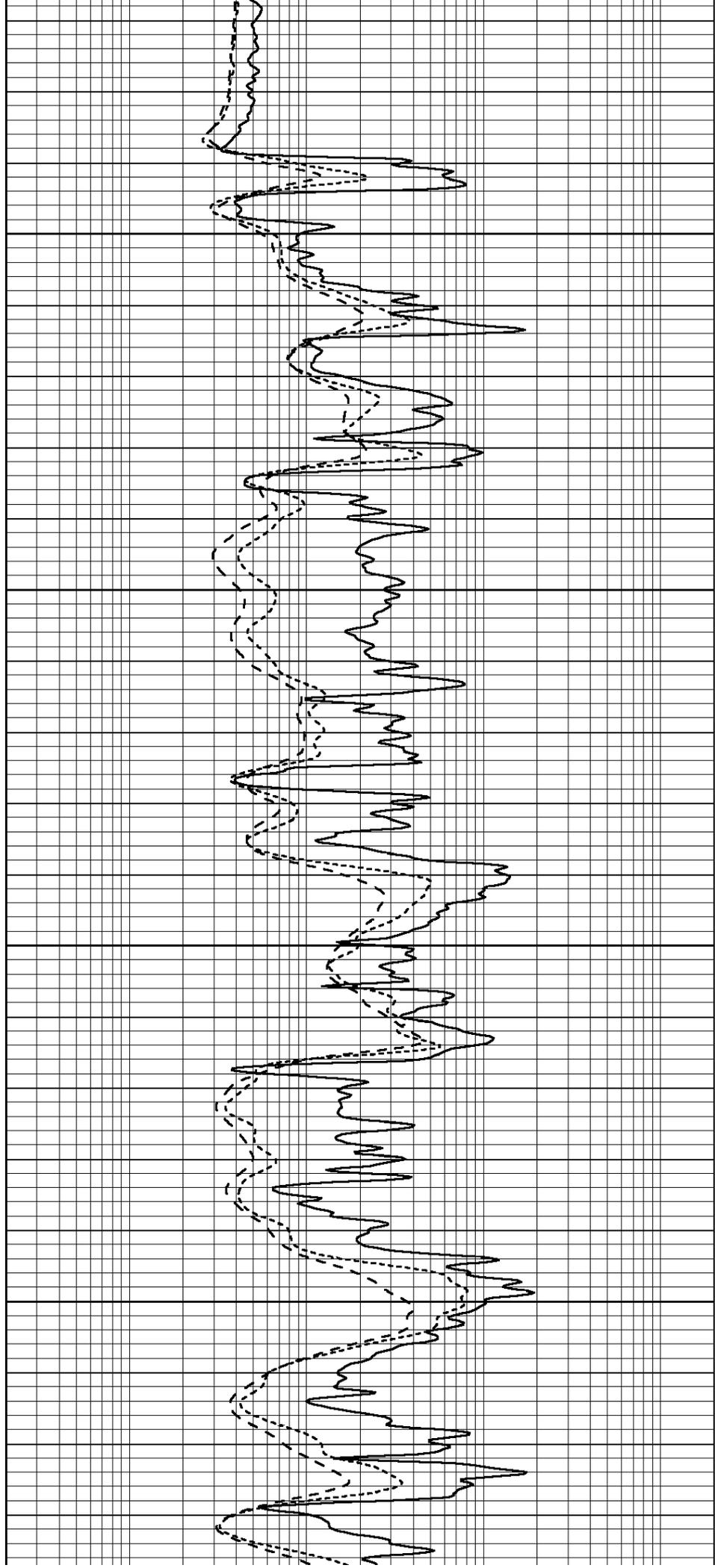


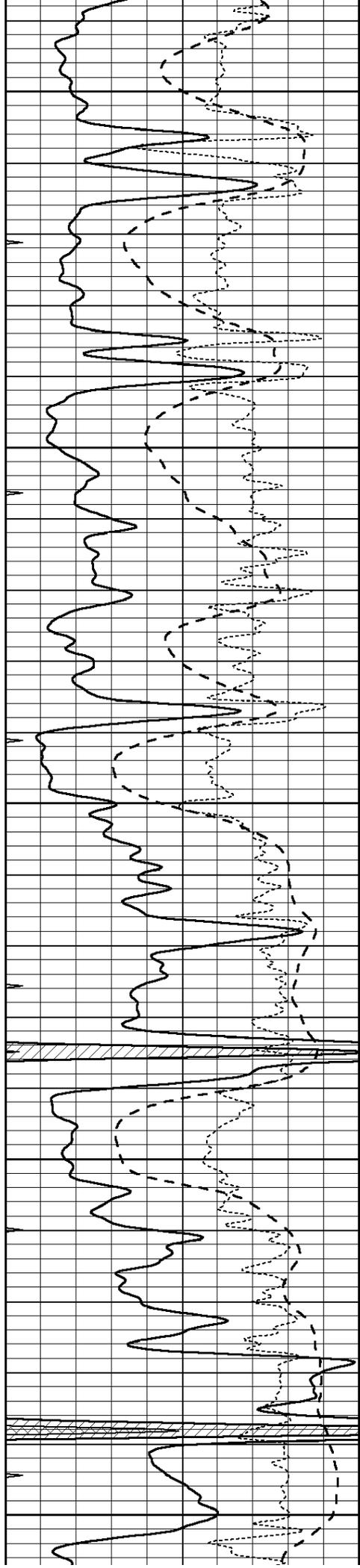
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4400

4450

4500





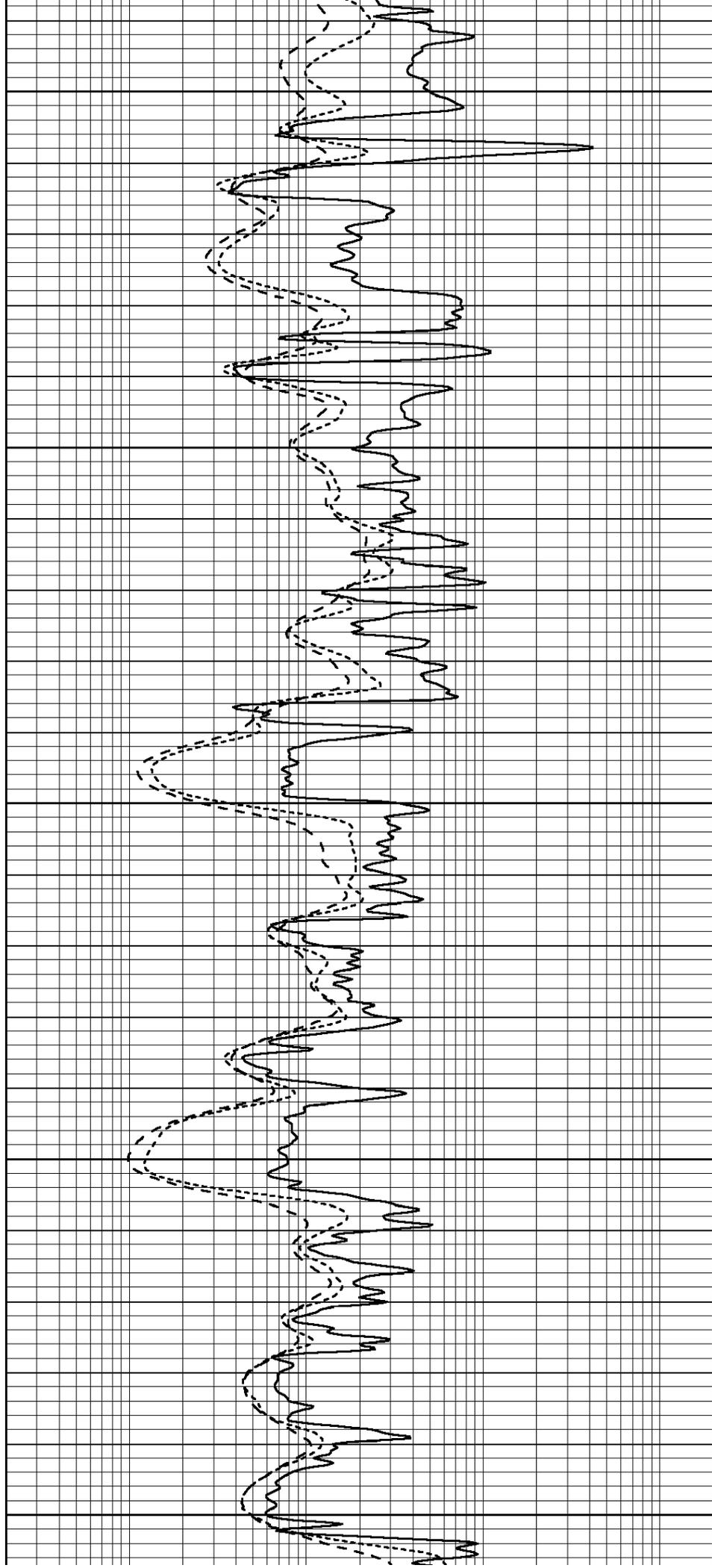
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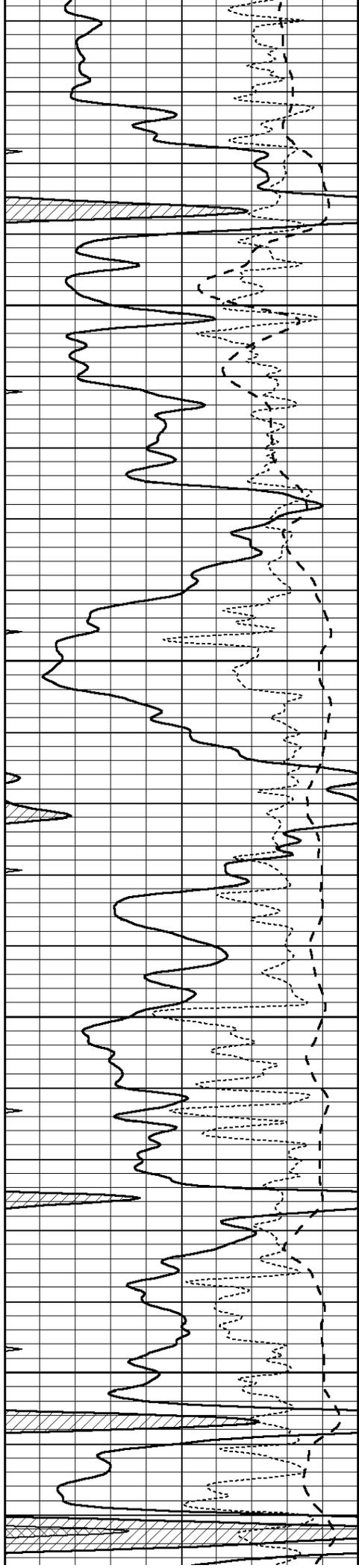
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4650

4700

4750



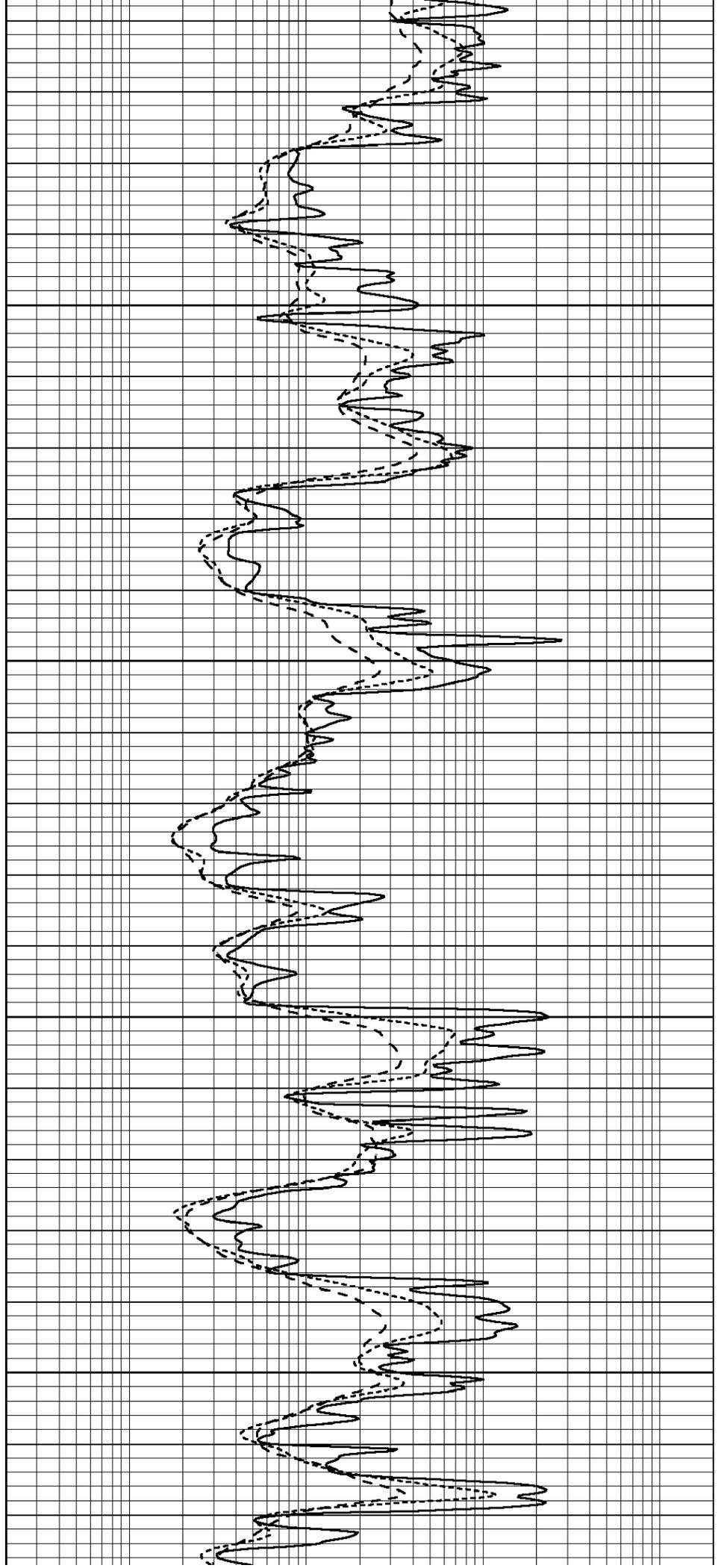


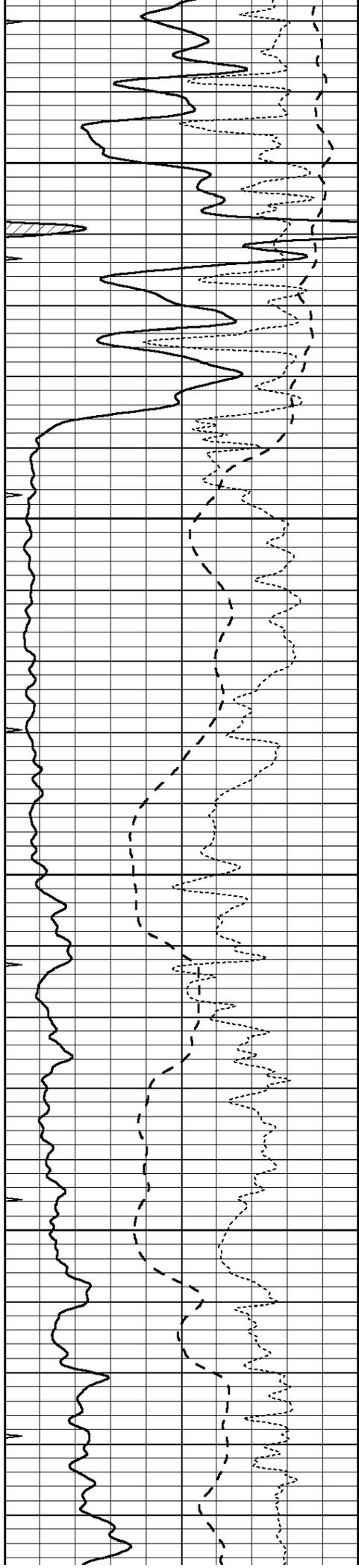
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4850

4900

4950



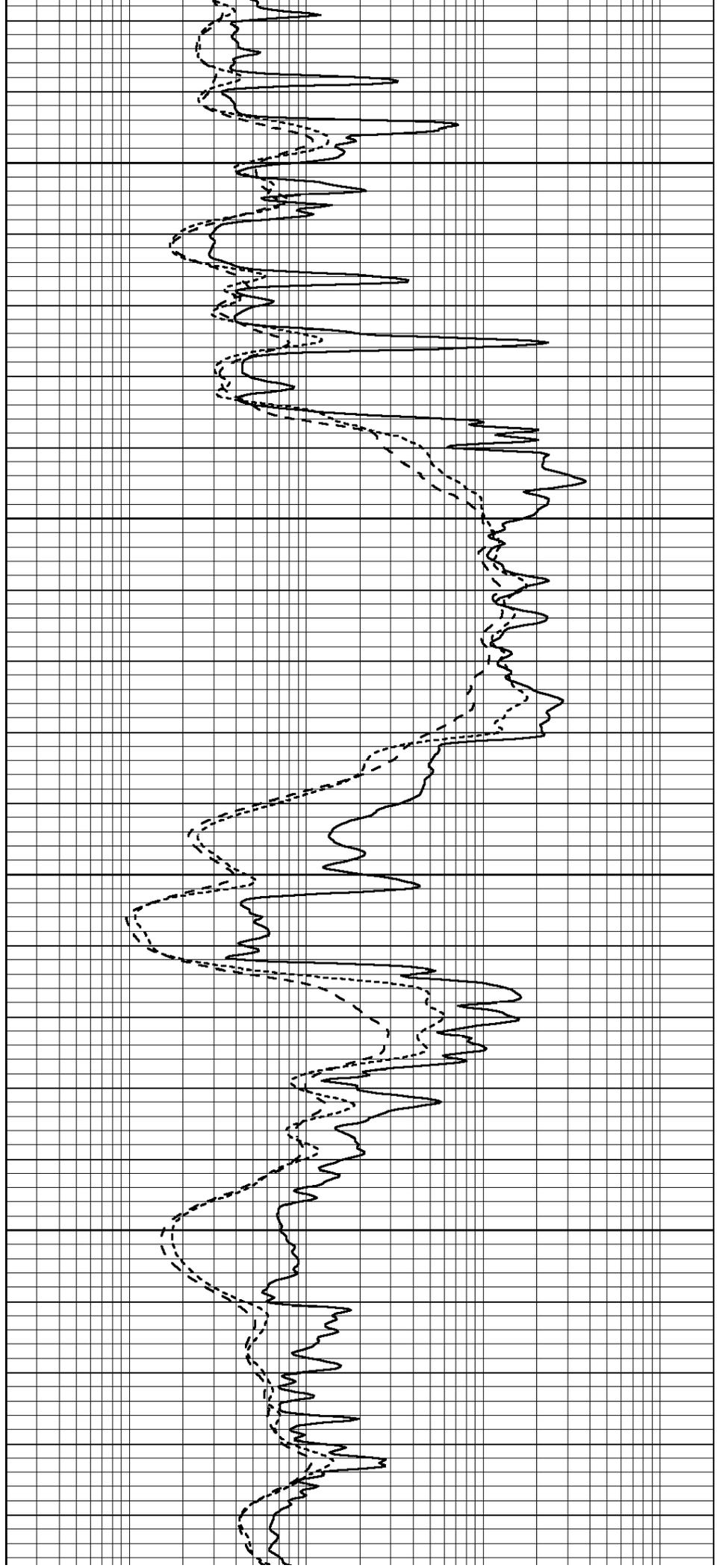


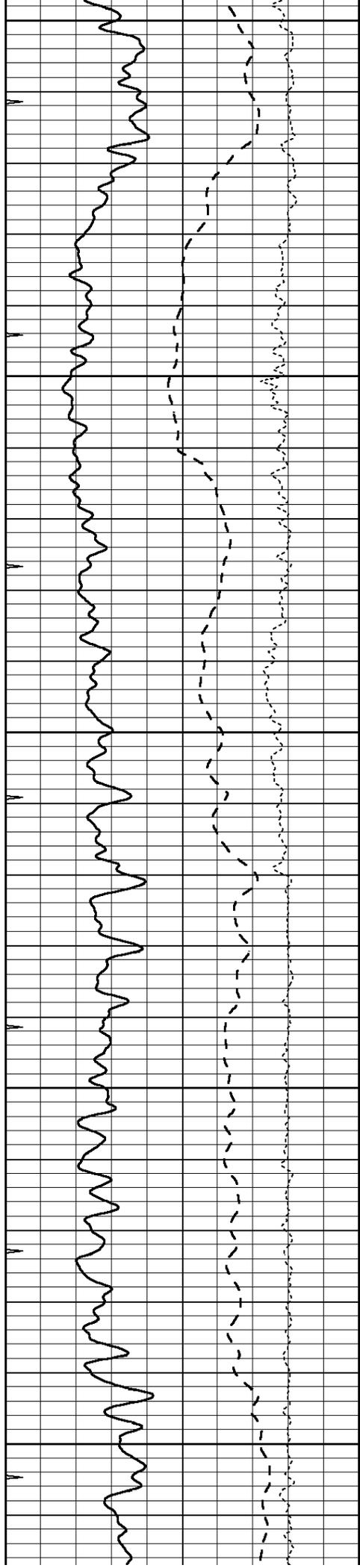
5000

5050

5100

5150





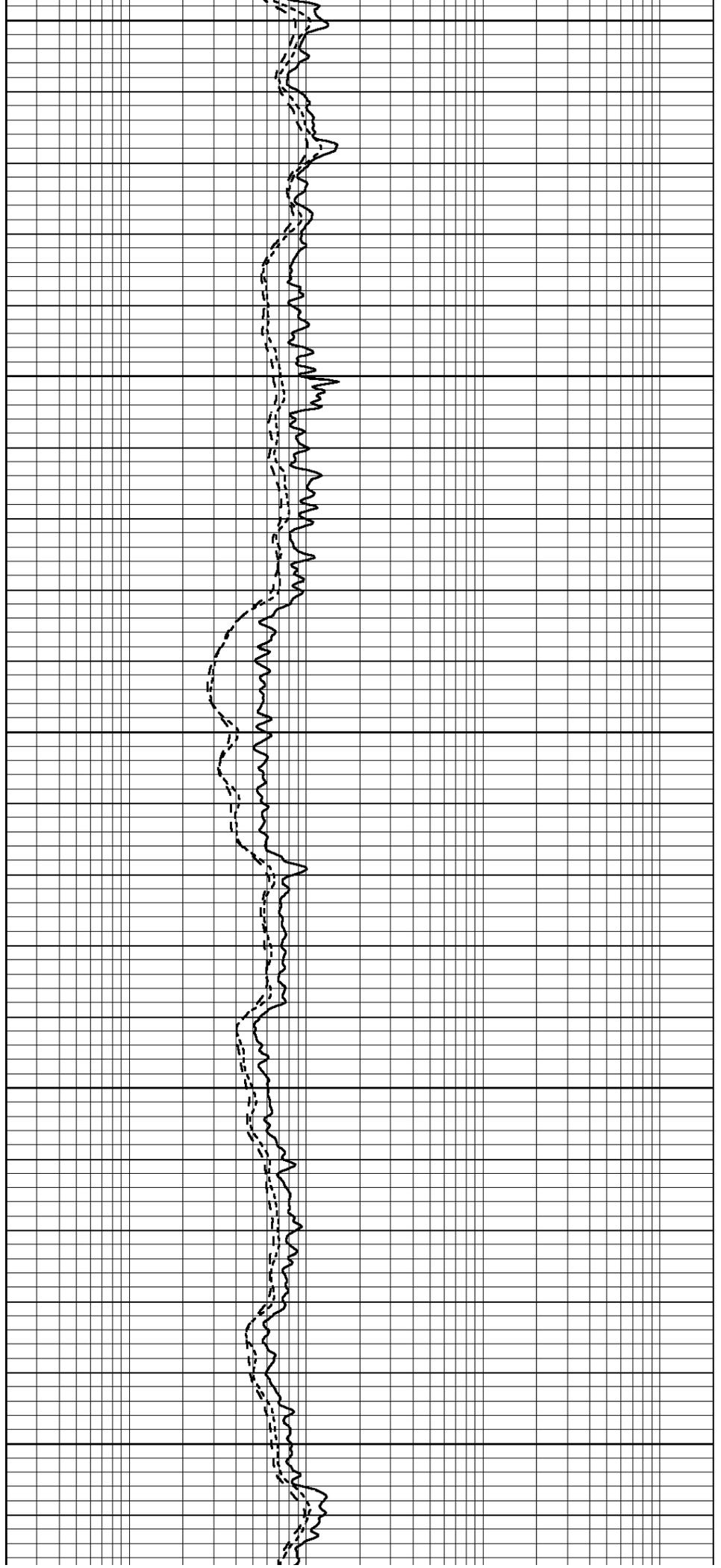
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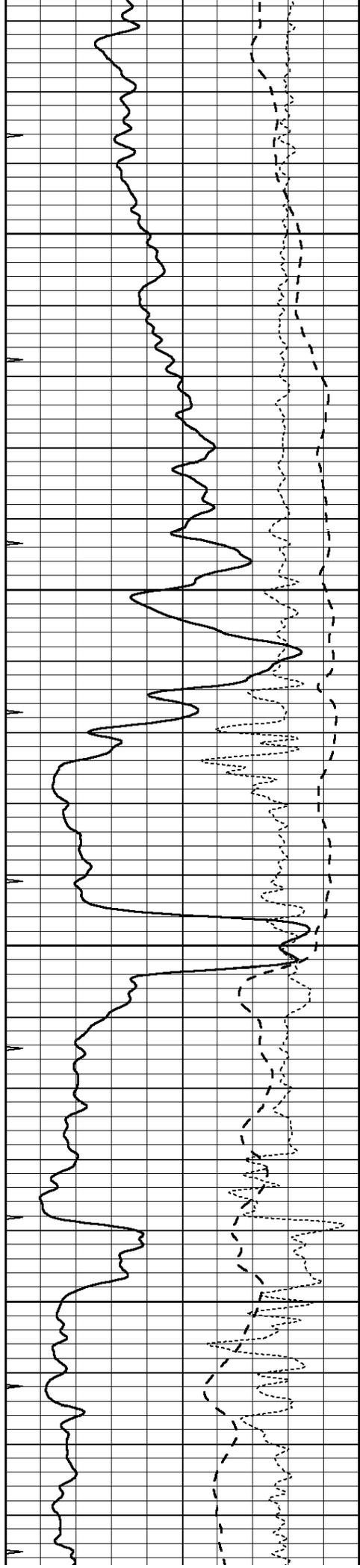
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5300

5350

5400



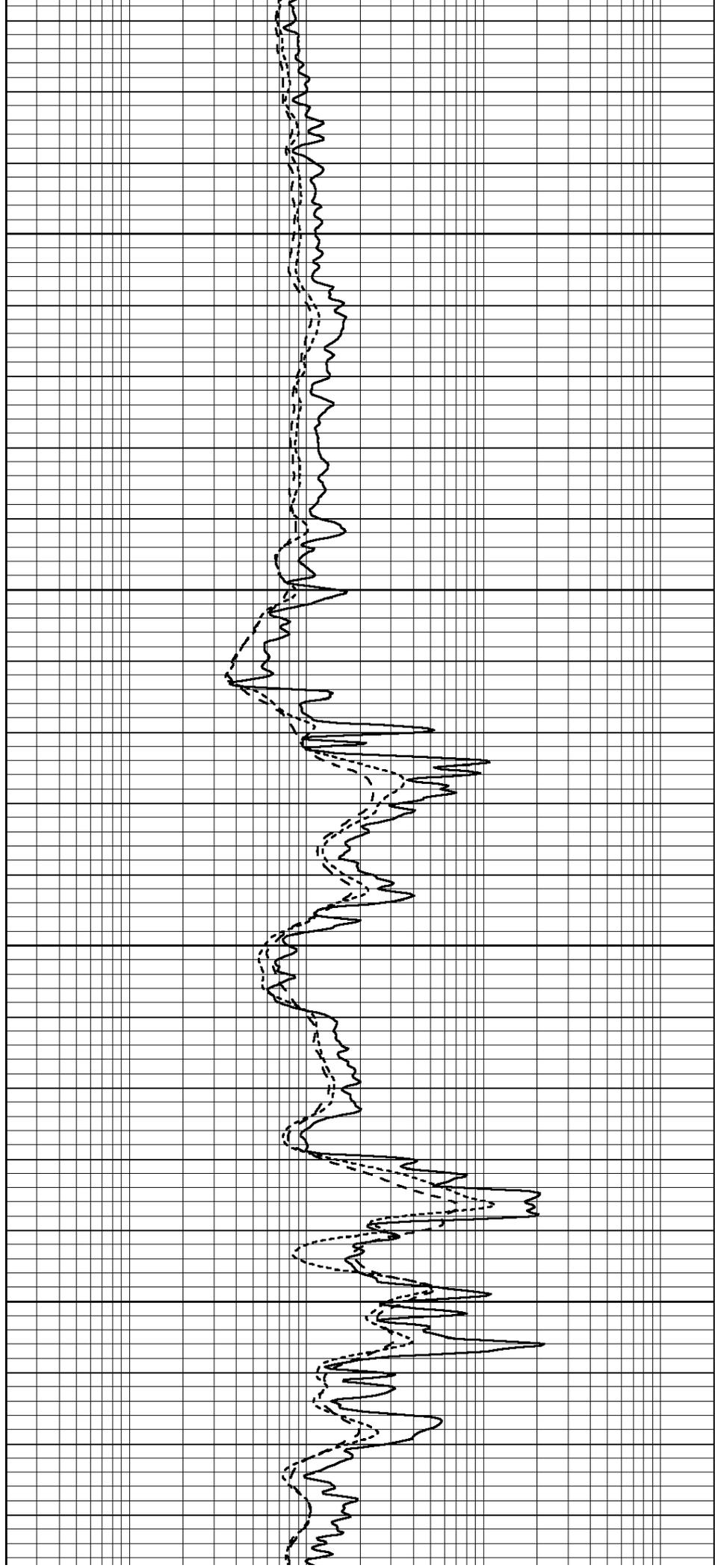


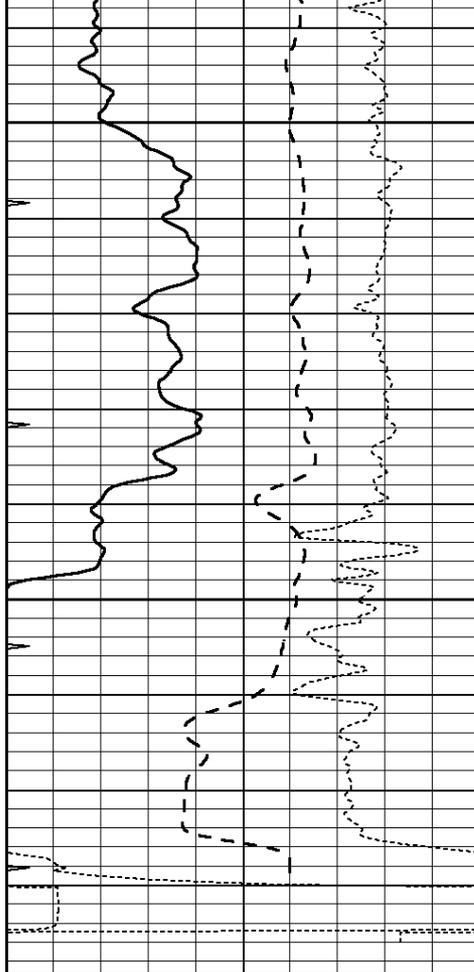
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5500

5550

5600

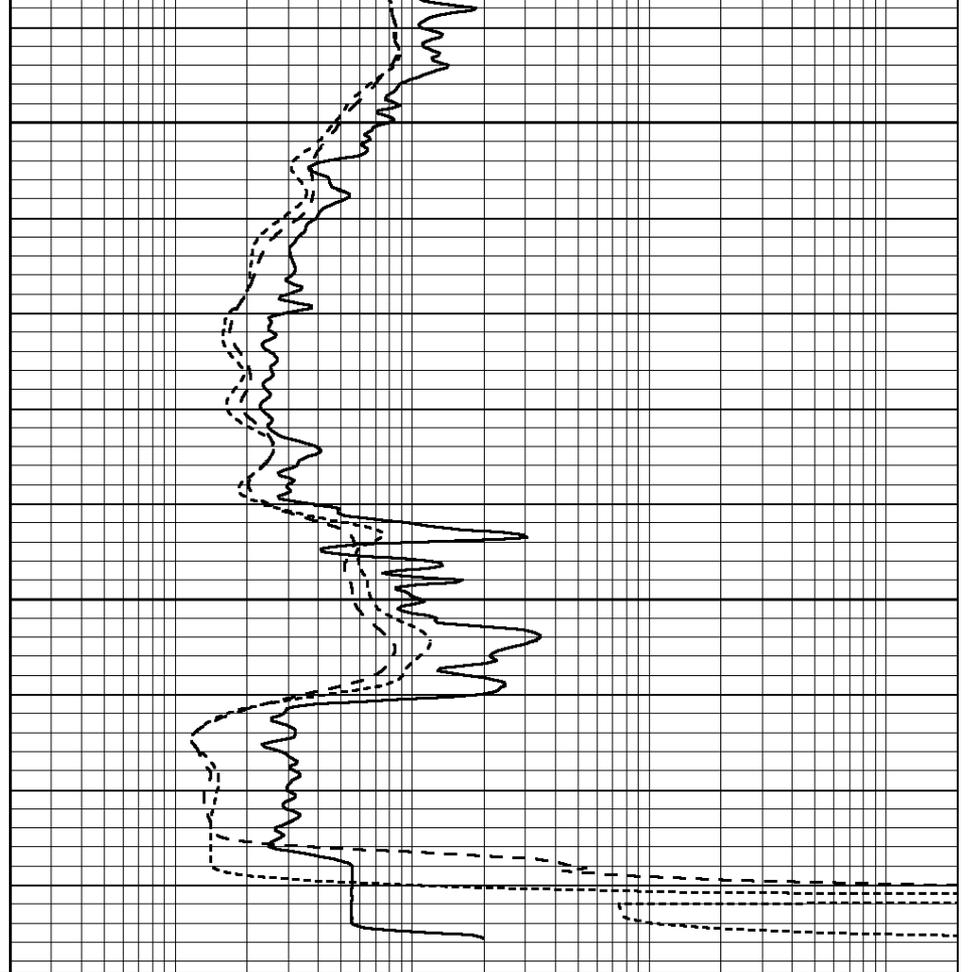




5650

5700

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



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

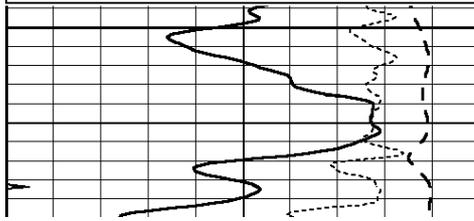


REPEAT SECTION

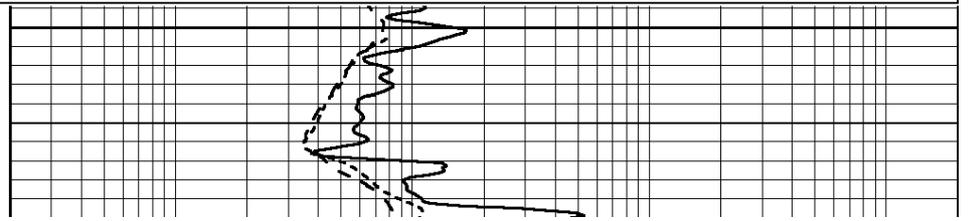
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 Charted by: Depth in Feet scaled 1:240

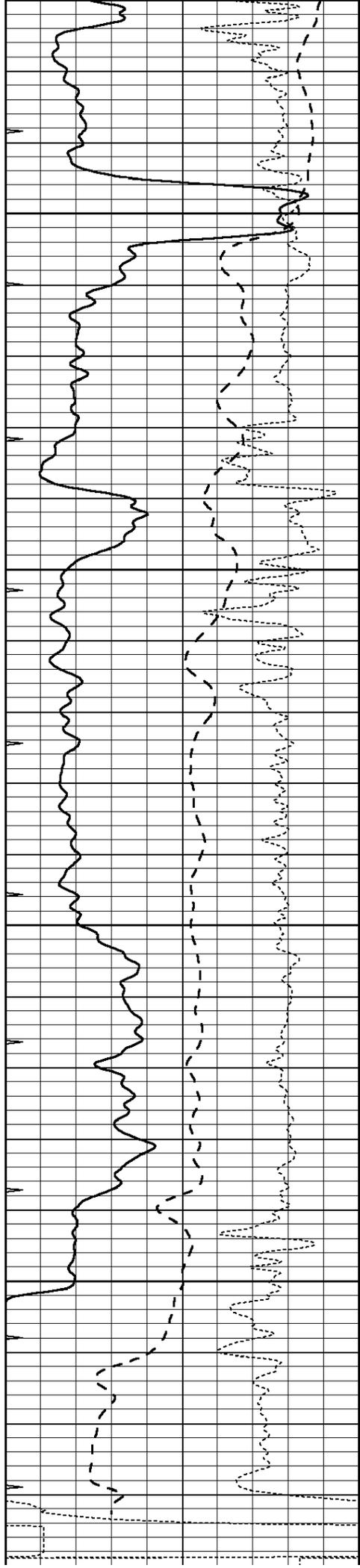
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



5500



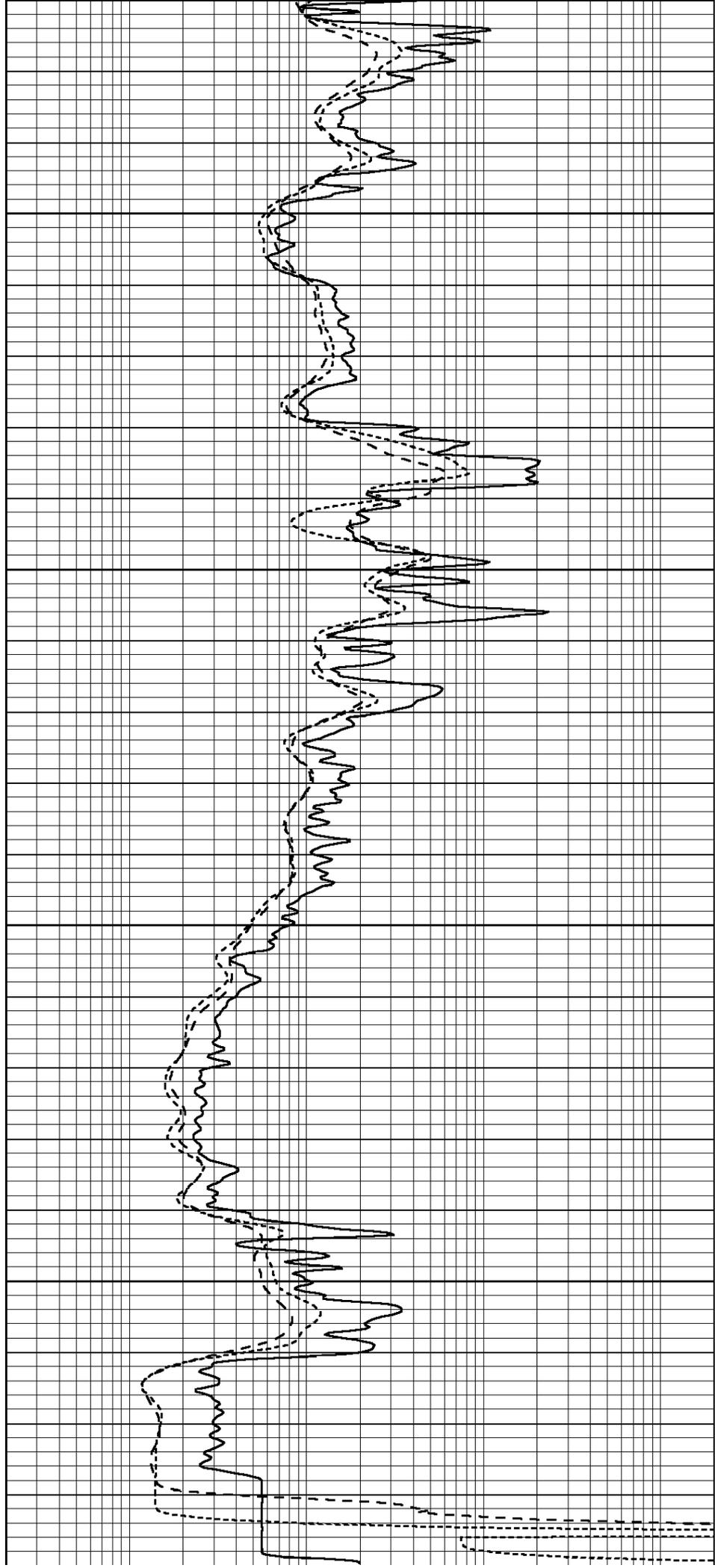


5550

5600

5650

5700



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

Calibration Report

Database File: 22248pe.db
Dataset Pathname: pass3.5
Dataset Creation: Sat Feb 08 21:30:05 2014

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
Surface Cal Performed: Wed Feb 05 09:18:43 2014
Downhole Cal Performed: Mon Jul 28 12:02:56 2008
After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	650.000	-8.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	660.000	-16.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256	
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102	

Downhole Calibration		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000	
LL3		7.500	V		1400.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		-7.200	V		4000.000	mmho-m			

After Survey Verification		Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000	
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000	
LL3		1.000	Ohm-m		1.000	Ohm-m			
		0.000	Ohm-m		0.000	Ohm-m			
		1.000	mmho-m		1.000	mmho-m			

Litho Density Calibration Report
Serial: 004N Model: PRB

Master Calibration		Performed Mon Jun 03 09:36:56 2013			
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1417.6	10391.4	3464.6	11537.5	cps
Window 2	1295.0	8959.7	3050.1	9816.4	cps
Window 3	1105.1	5464.2	2051.0	5838.8	cps
Window 4	315.0	317.7	312.9	319.8	cps
Long Space	0.0	7664.6	1755.0	8521.3	cps

Short Space	1.8	1582.4	1040.8	1699.4	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 44.1	Rib Slope	: 0.970	Density/Spine Ratio	: 0.574
Spine Angle	: 74.1	Spine Slope	: 3.519	Spine Intercept	: -17.0

Before Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

Compensated Neutron Calibration Report

Serial Number: 070808
Tool Model: Probe

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: 070559
Tool Model: OPEN_GR
Performed: Thu Dec 19 09:01:02 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.2800 GAPI/cps

