



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	VINCENT OIL CORPORATION	Company	VINCENT OIL CORPORATION
Well	RIEGEL #1-9	Well	RIEGEL #1-9
Field	WILDCAT	Field	WILDCAT
County	FORD	County	FORD
State	KANSAS	State	KANSAS
Location:	AP1 # : 15-057-20786-0000	Other Services	CDL/CNL/PE MEL/SONIC
Permanent Datum	GROUND LEVEL	Elevation	2481
Log Measured From	KELLY BUSHING 13' A.G.L.	Elevation	K.B. 2494 D.F. 2492 G.L. 2481
Drilling Measured From	KELLY BUSHING		
SEC 9 TWP 28S RGE 23W			
350' FNL & 230" FWL SW - NW - NW - NW			
3/3/12			
Run Number	ONE		
Depth Driller	5400		
Depth Logger	5402		
Bottom Logged Interval	5400		
Top Log Interval	00		
Casing Driller	8 5/8"@608'		
Casing Logger	608		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10,800 PPM	
Density / Viscosity	9.1/52		
pH / Fluid Loss	10.5/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50@70F		
Rmt @ Meas. Temp	1.13@70F		
Rmc @ Meas. Temp	1.80@70F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.814@129F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	129F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM HALL	TOM DUDGEON	

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
FORD, KS. 5W. ON "SADDLE RD." TO "RD. 120", 1S., E. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 408422pe.db
Dataset Pathname: pass3.8
Presentation Format: dil2
Dataset Creation: Sat Mar 03 21:34:25 2012
Charted by: Depth in Feet scaled 1:600

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

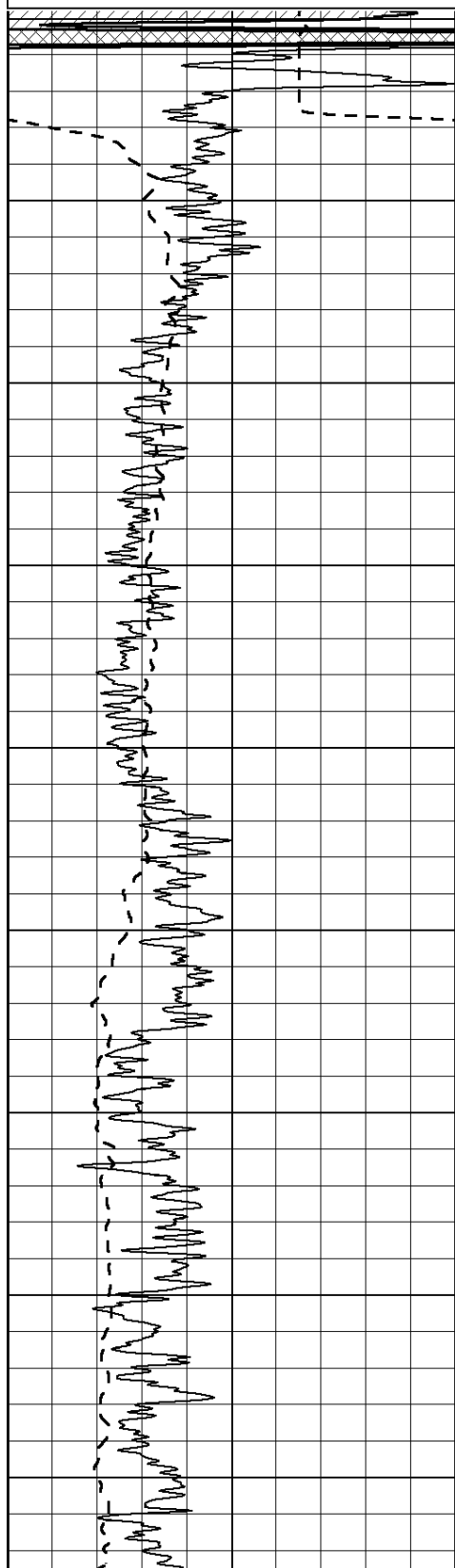
0	RLL3 (Ohm-m)	50
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0	RILD (Ohm-m)	50
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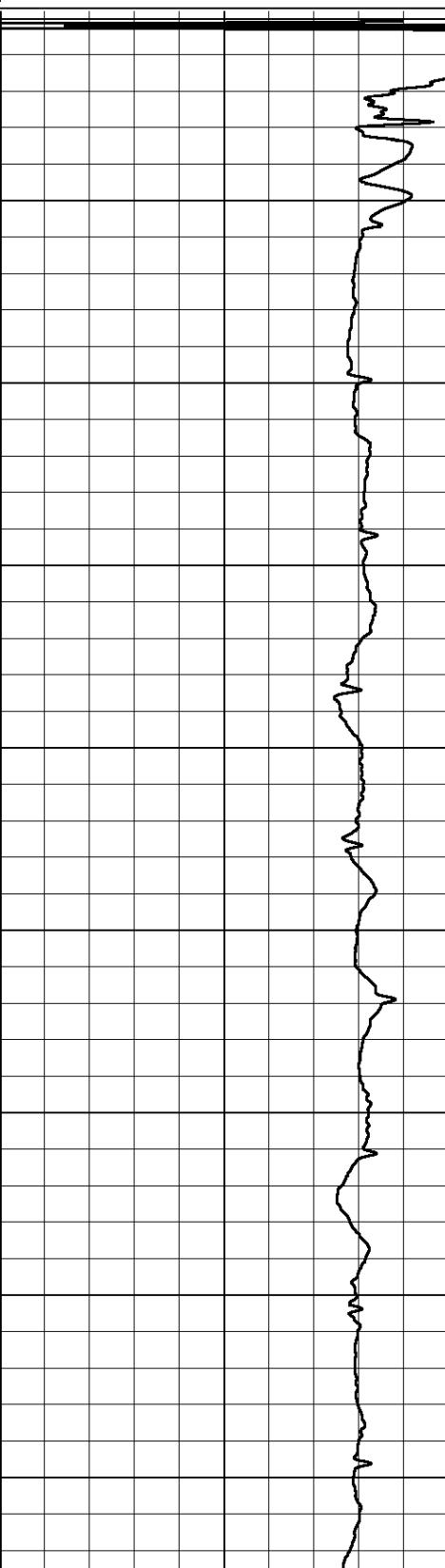
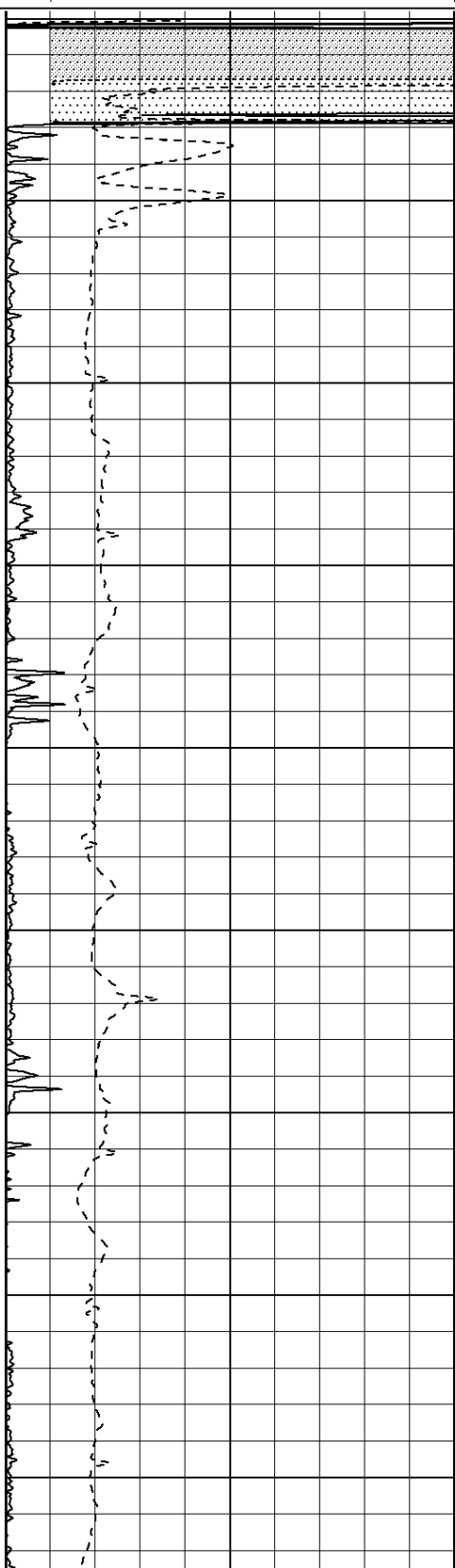
1000	CILD (mmho/m)	0
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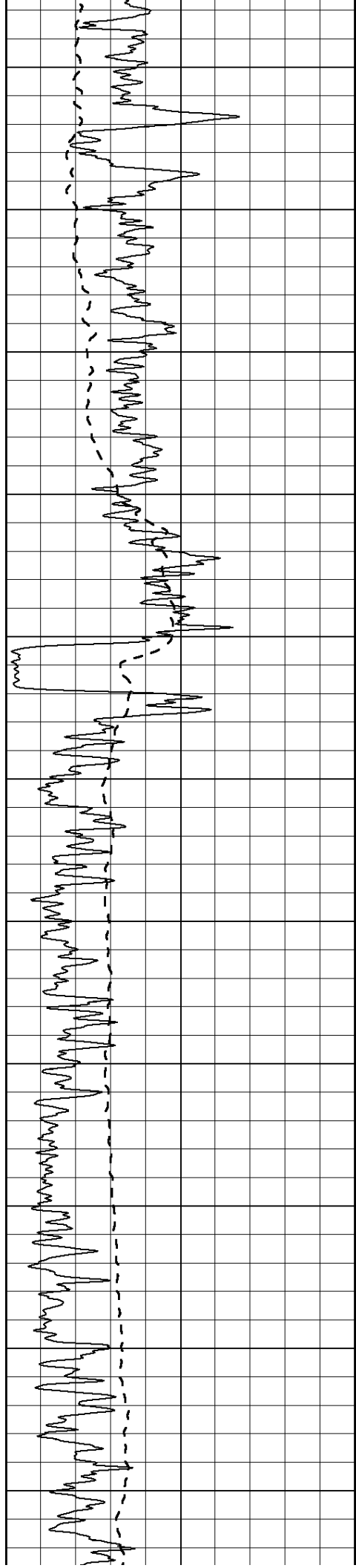
50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

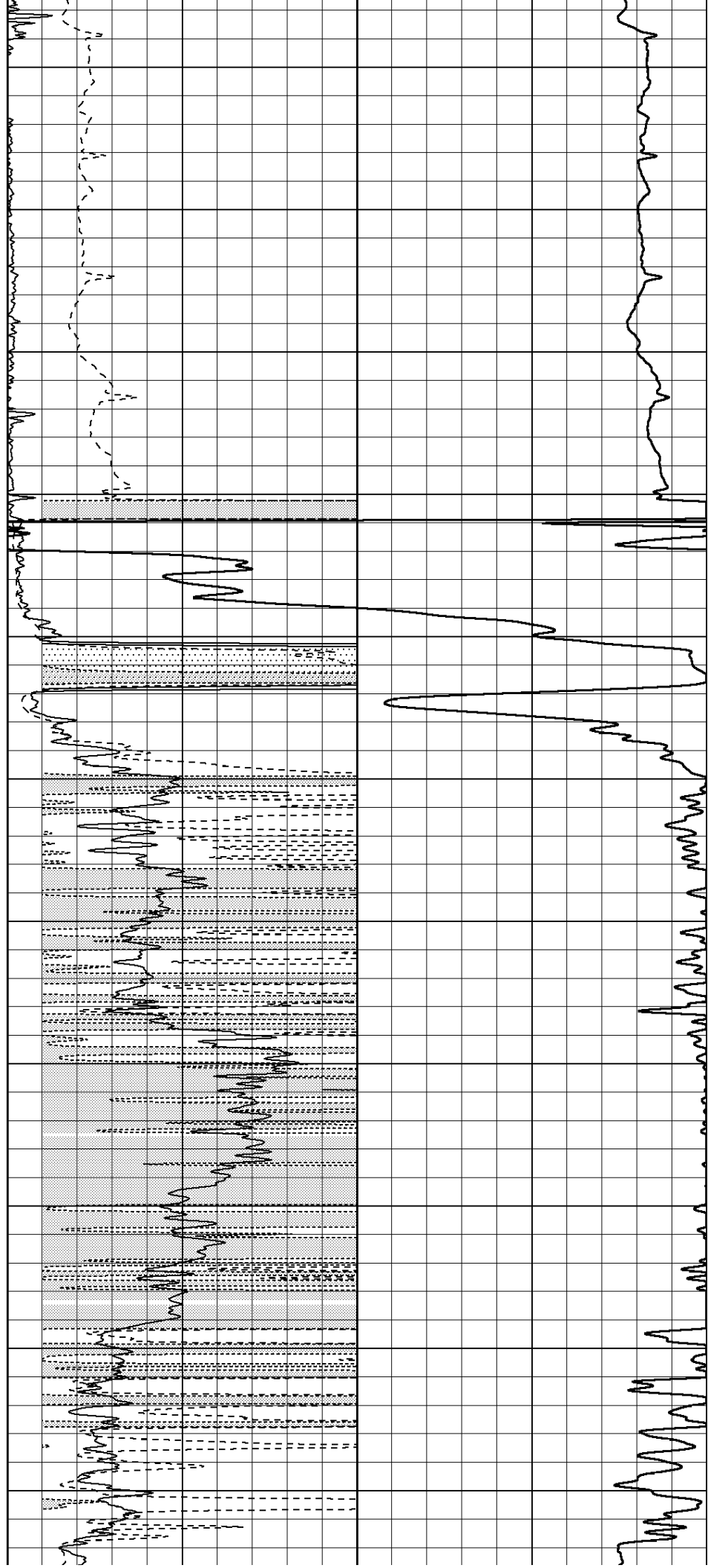
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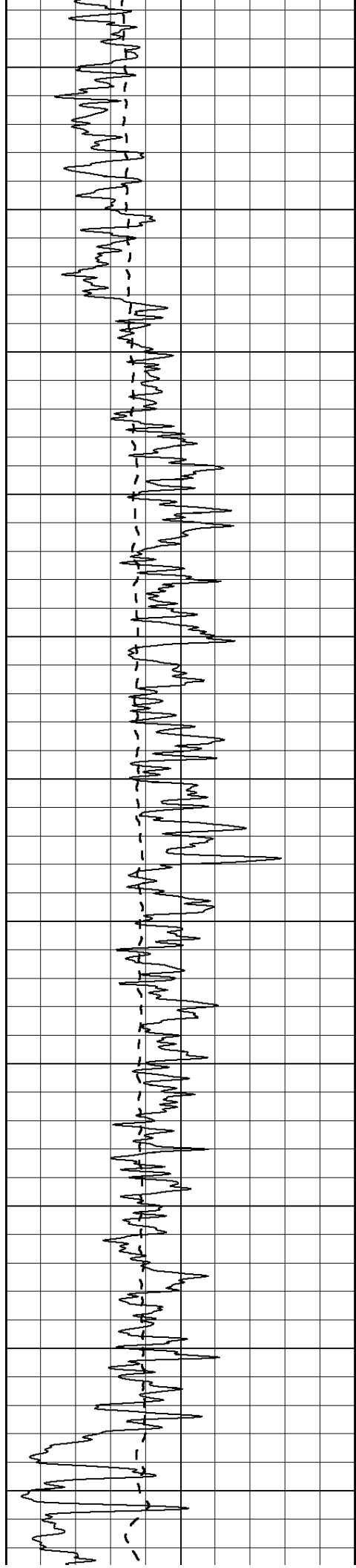
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850

900

950





1000

1050

1100

1150

1200

1250

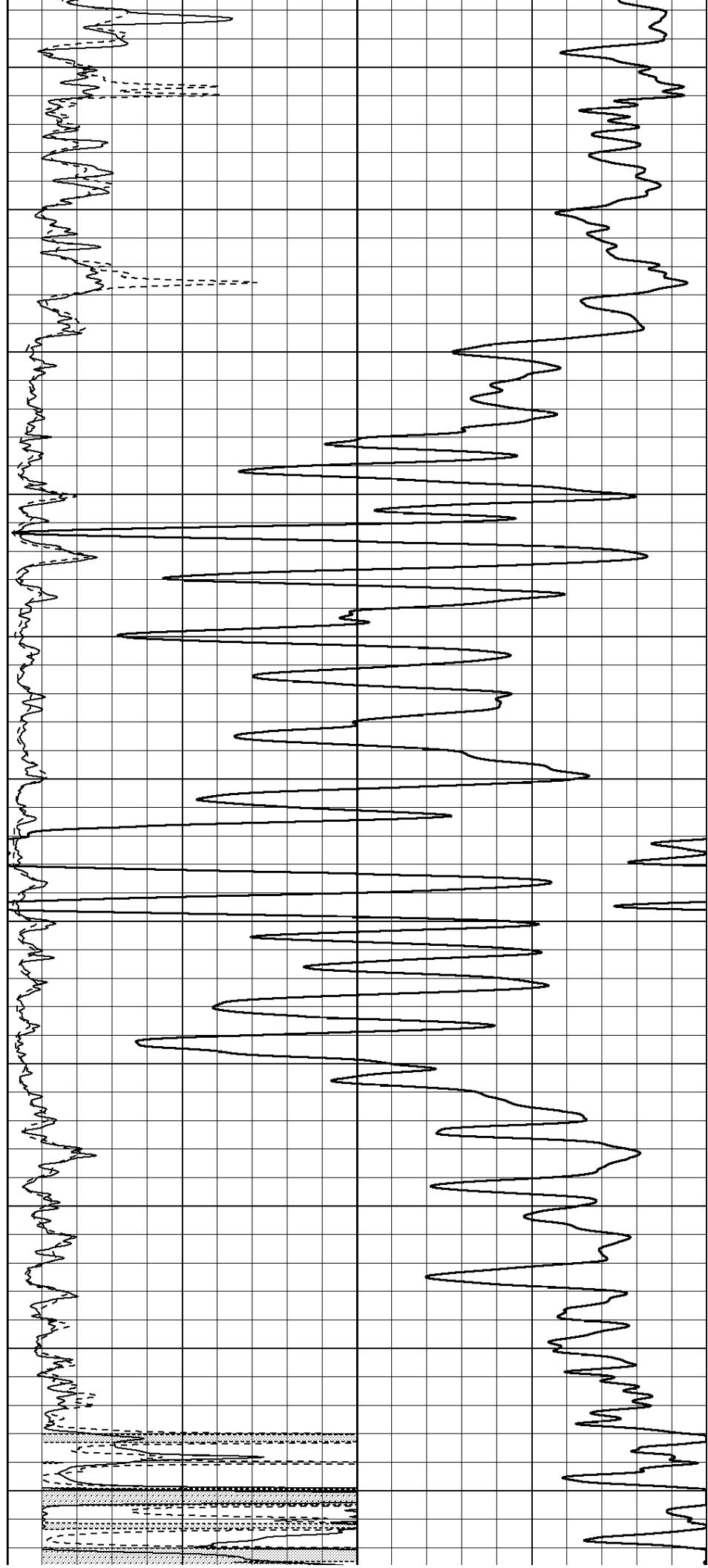
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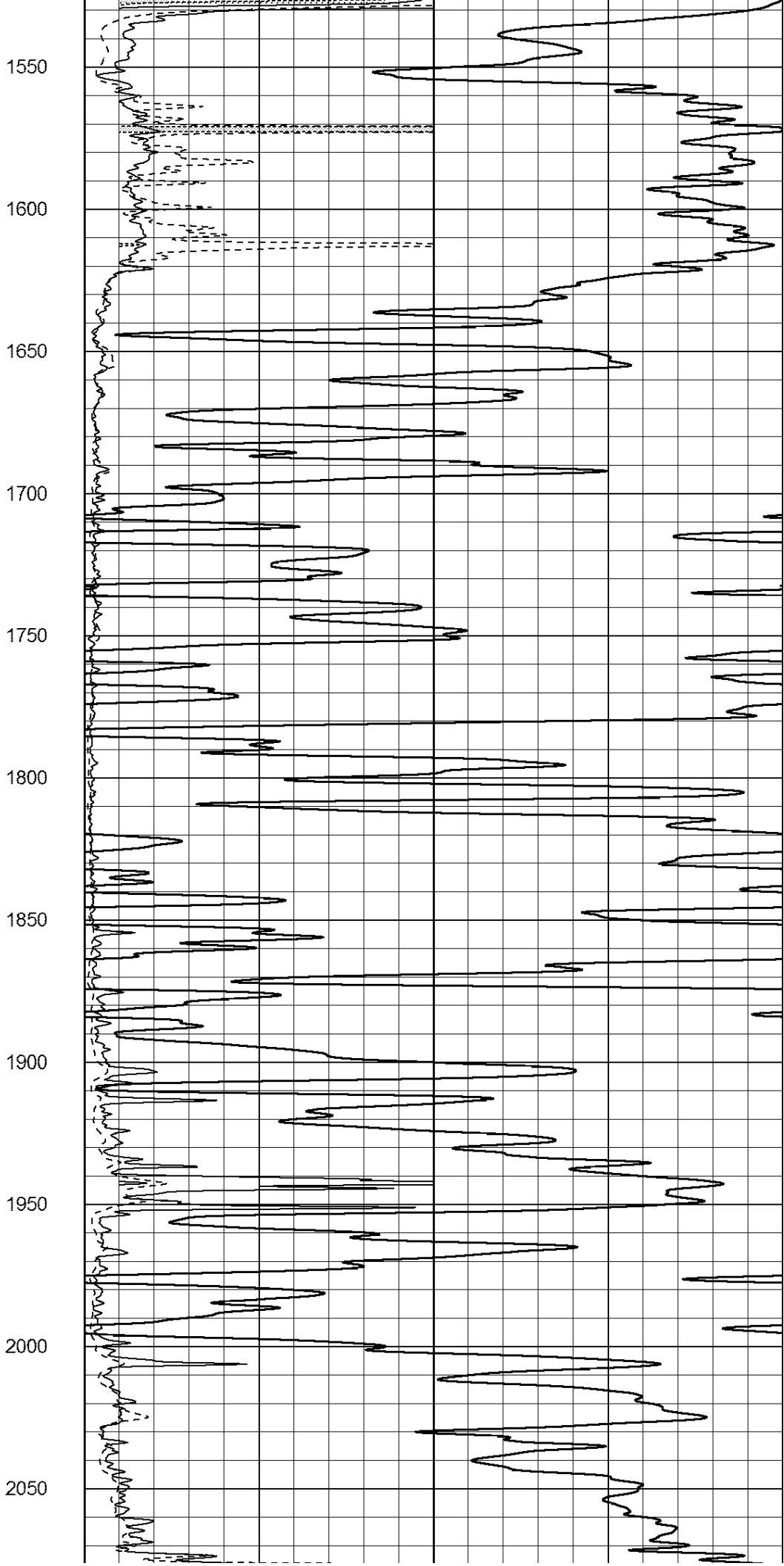
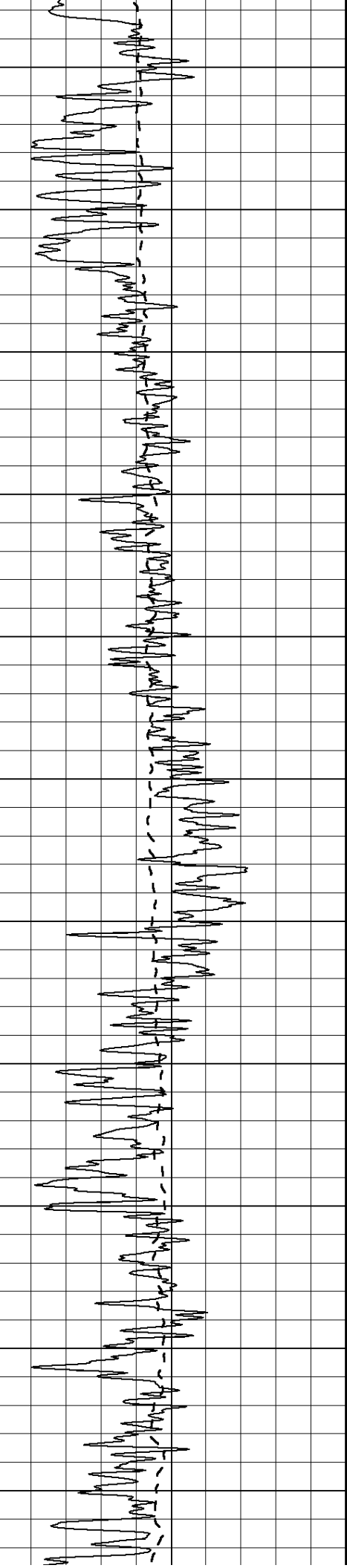
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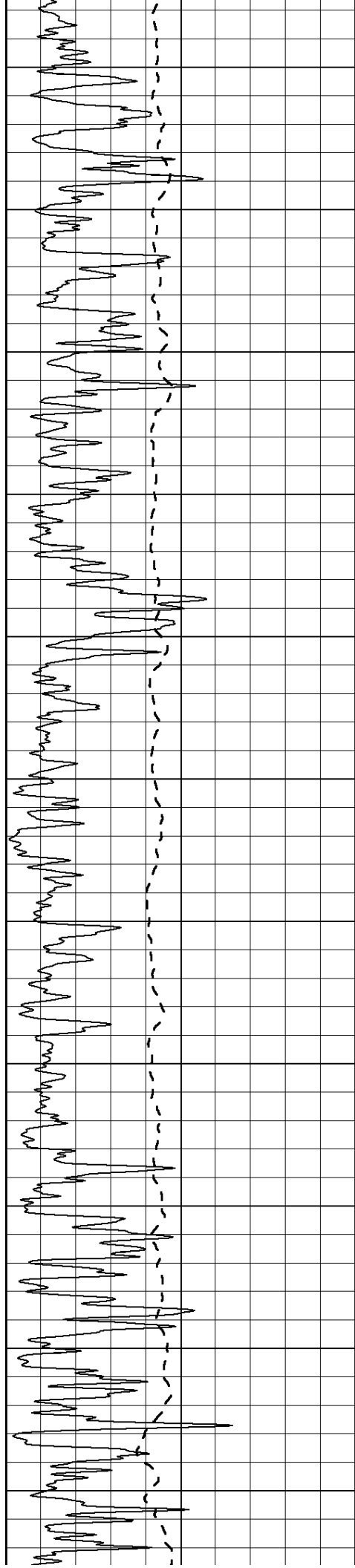
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1450

1500







2100

2150

2200

2250

2300

2350

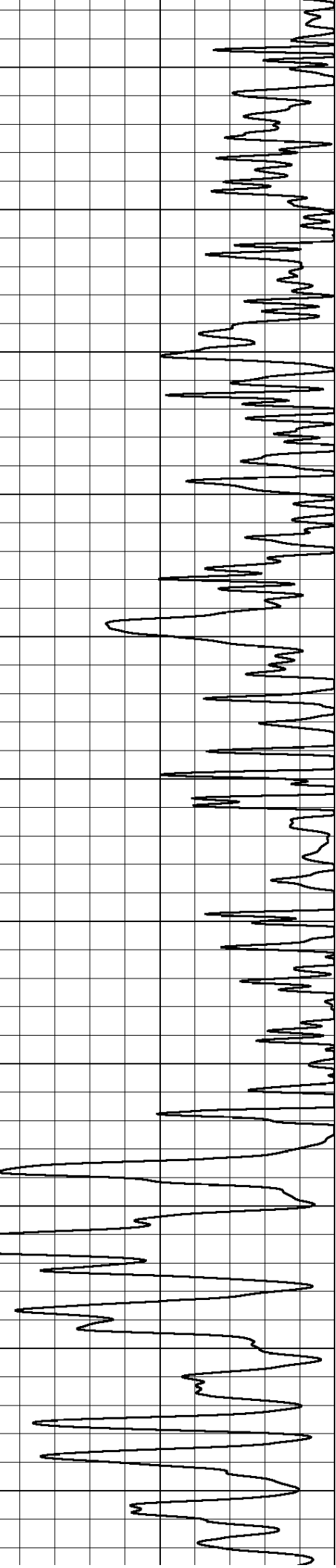
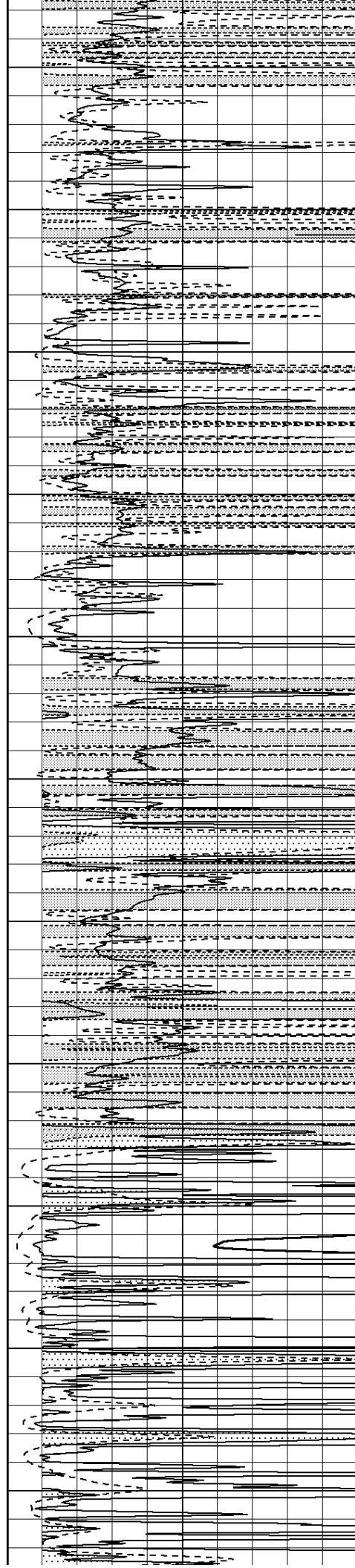
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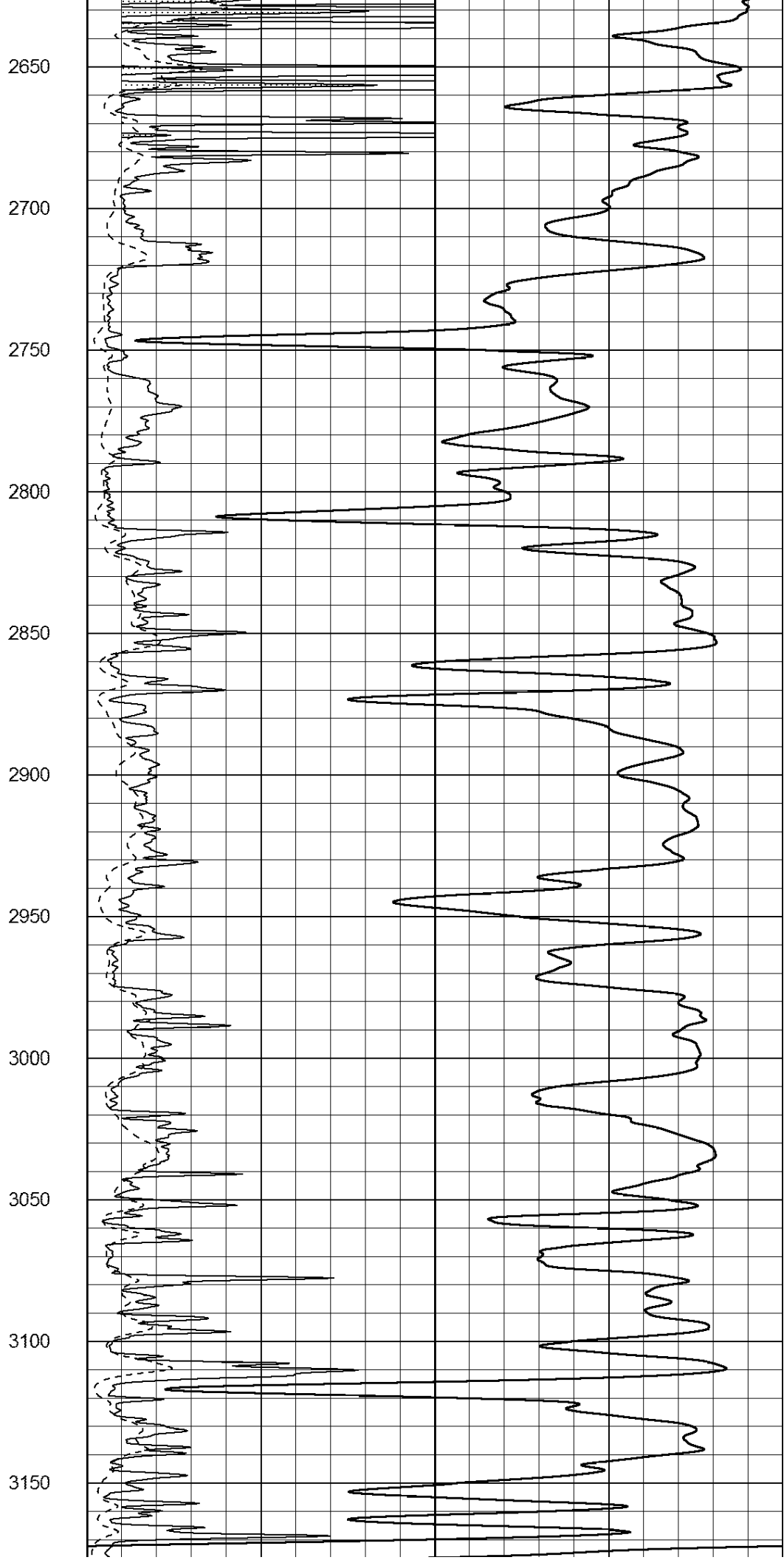
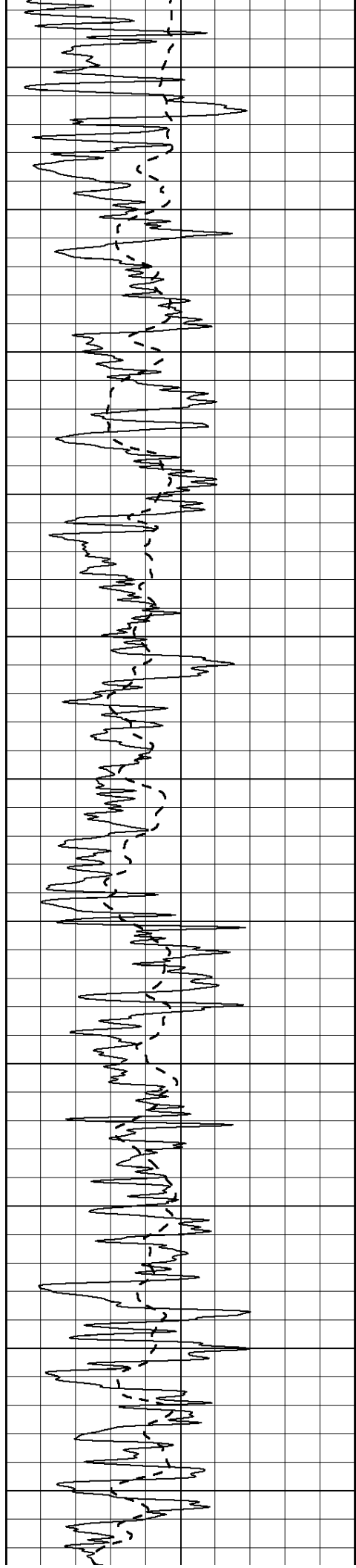
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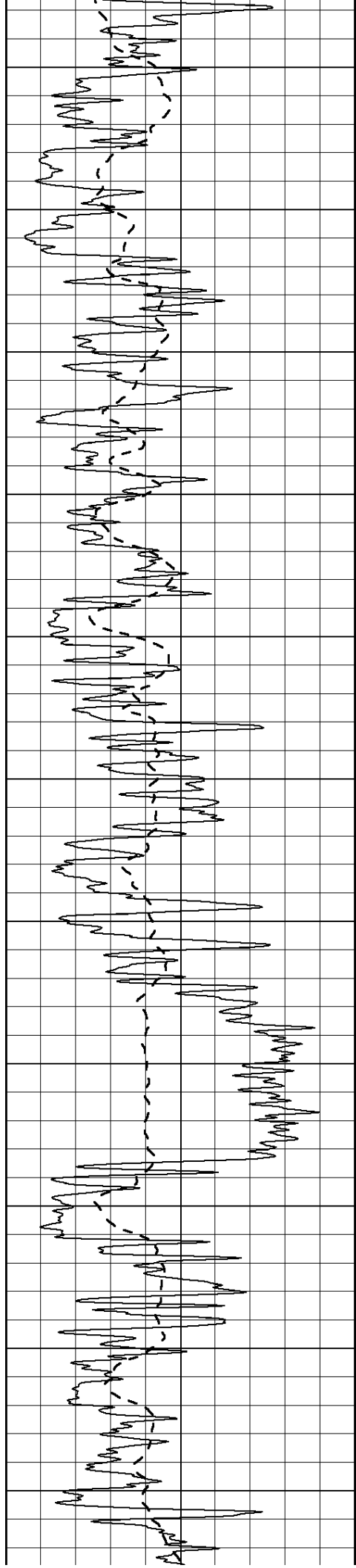
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2600







3200

3250

3300

3350

3400

3450

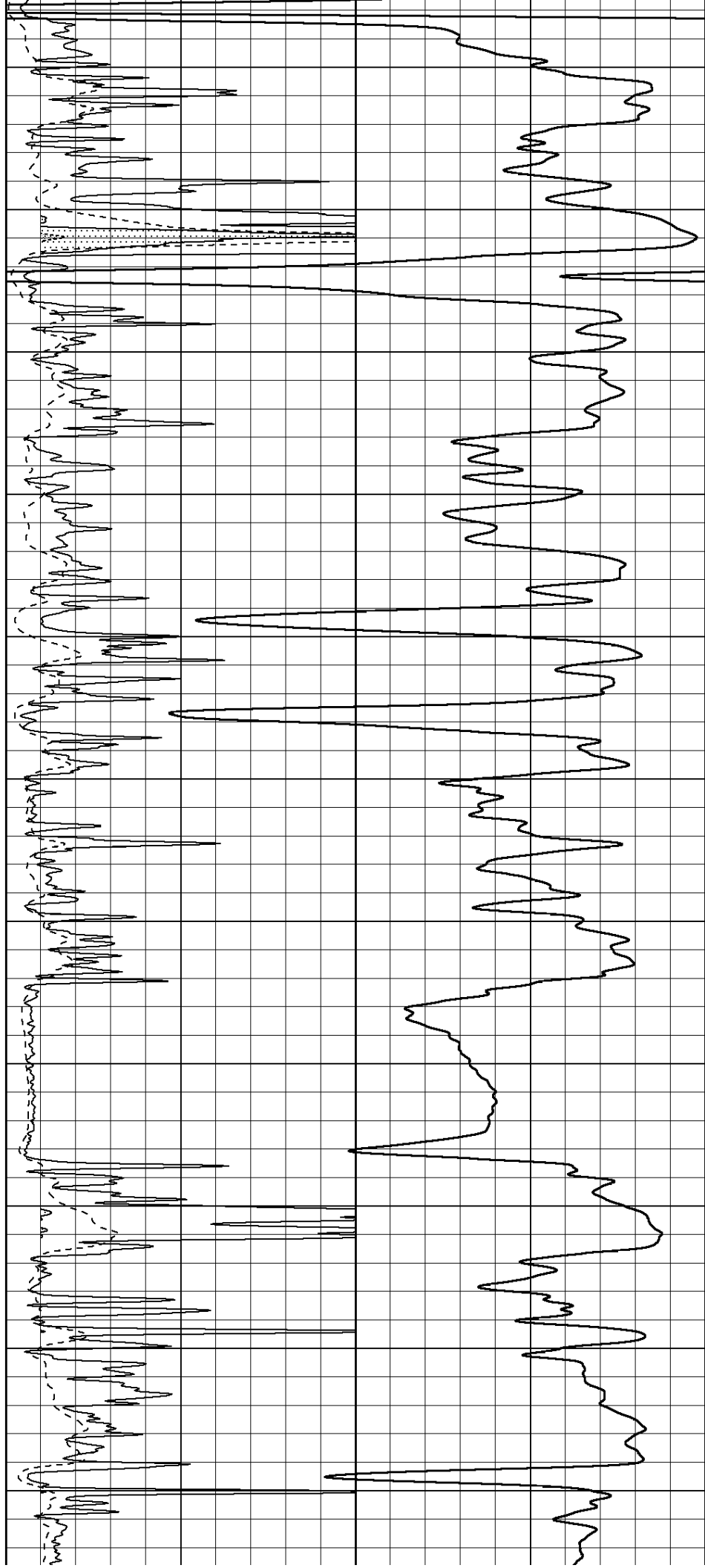
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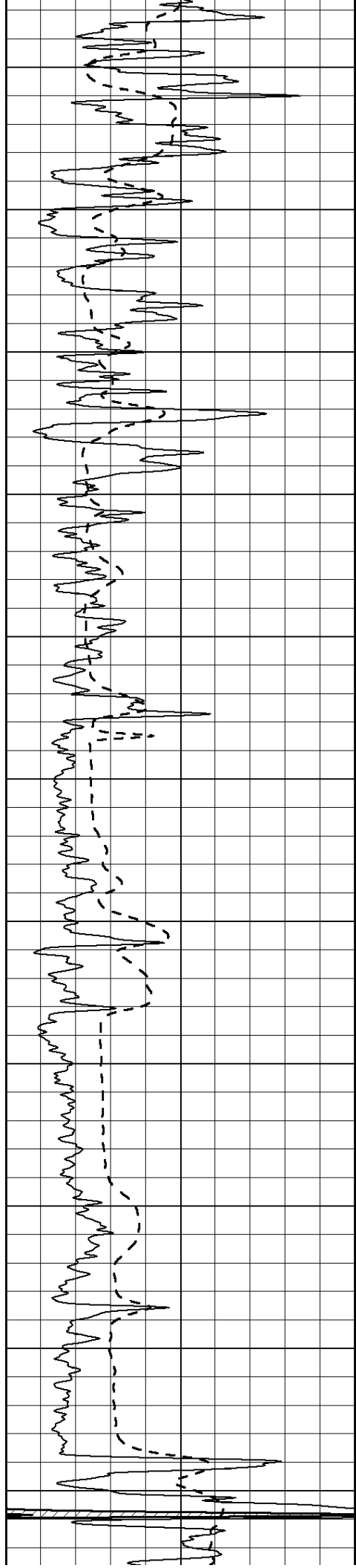
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3600

3650

3700





3750

3800

3850

3900

3950

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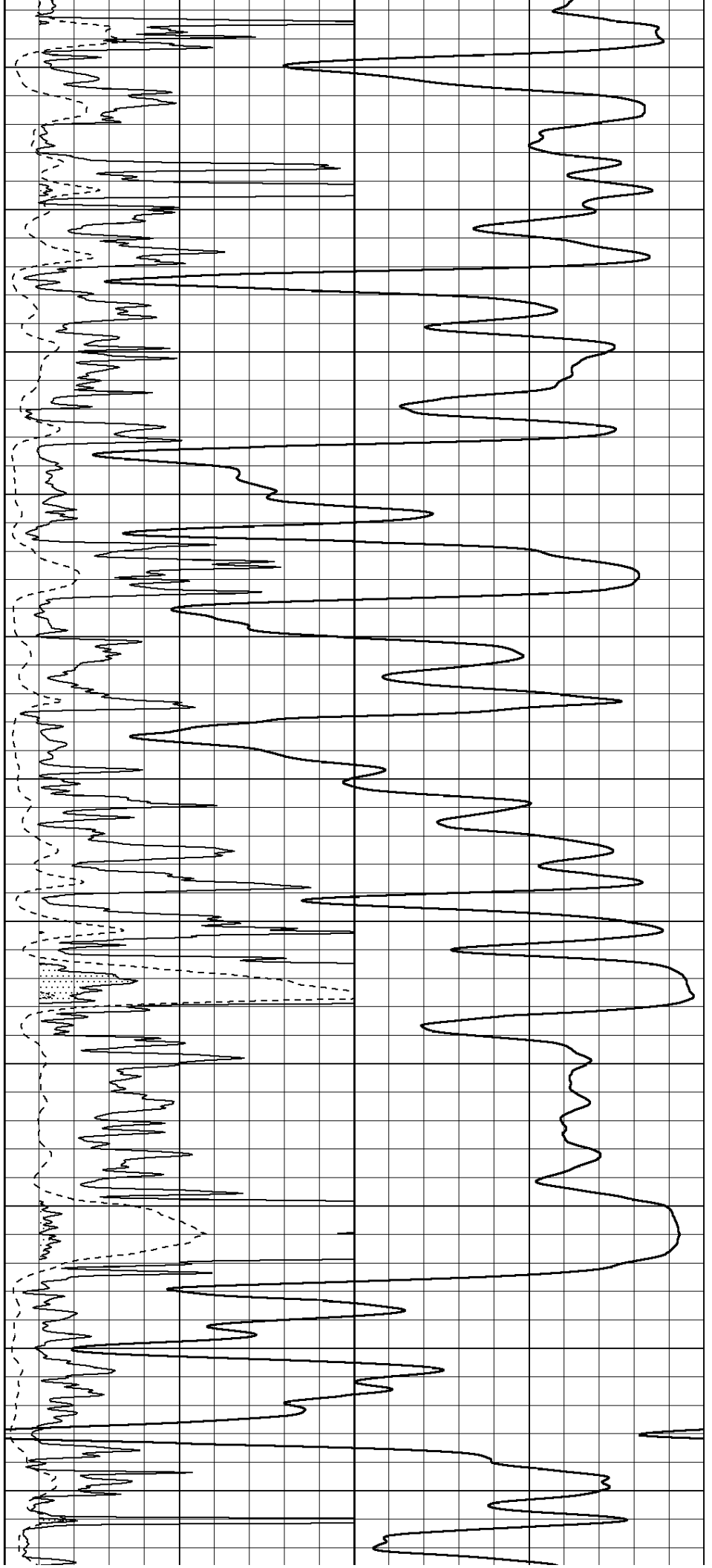
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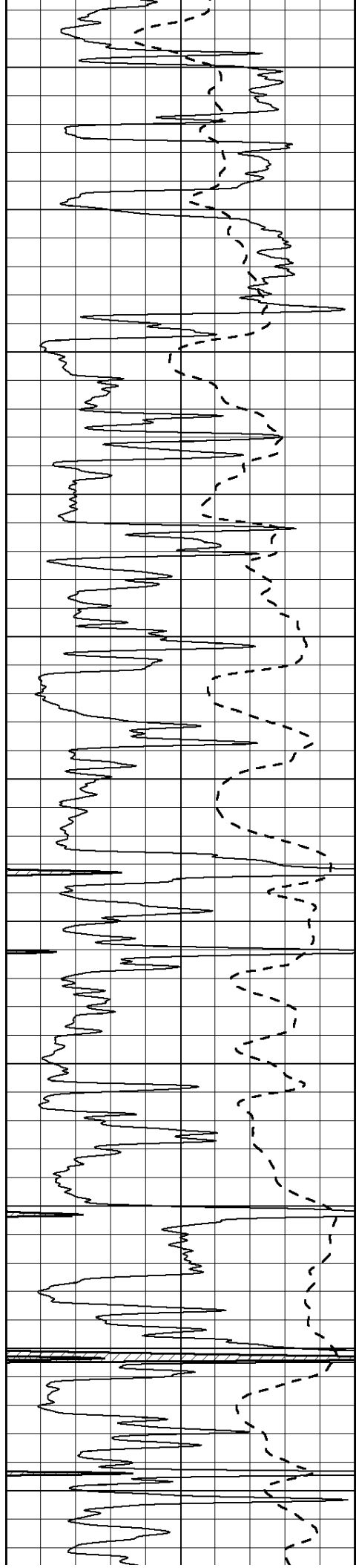
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4150

4200

4250





4300

4350

4400

4450

4500

4550

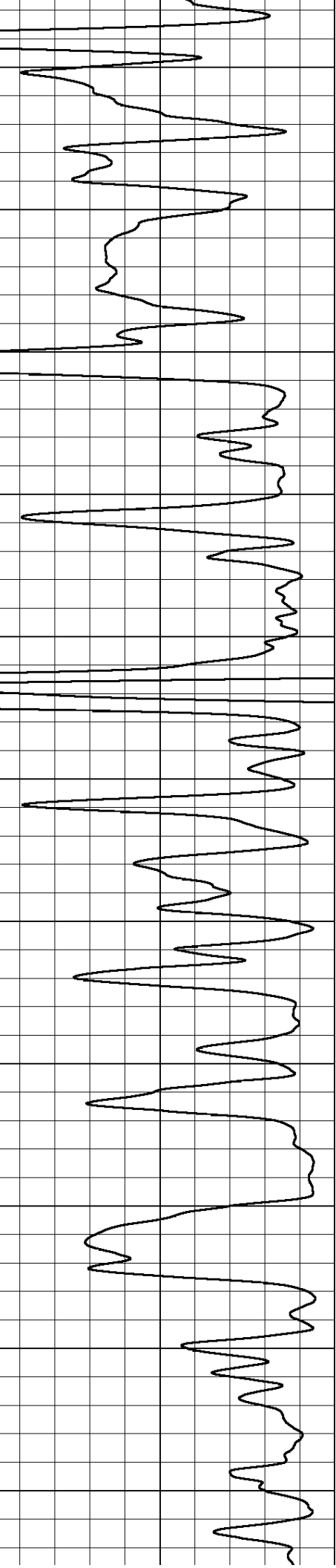
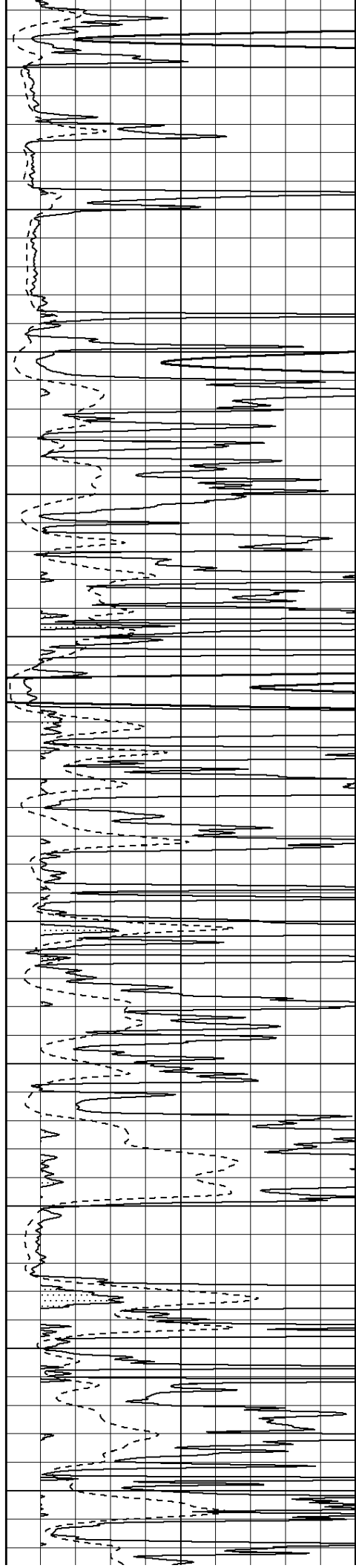
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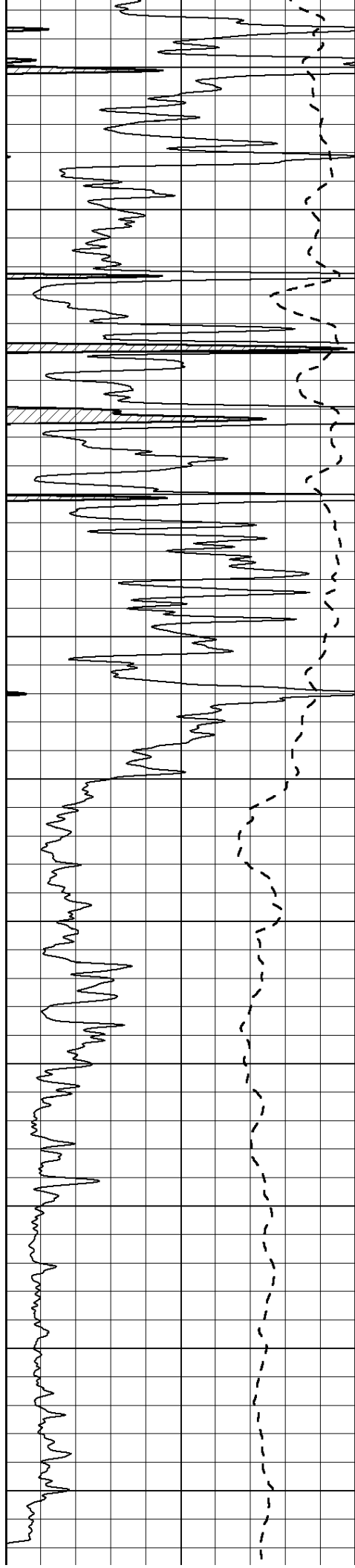
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4700

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4800





4850

4900

4950

5000

5050

5100

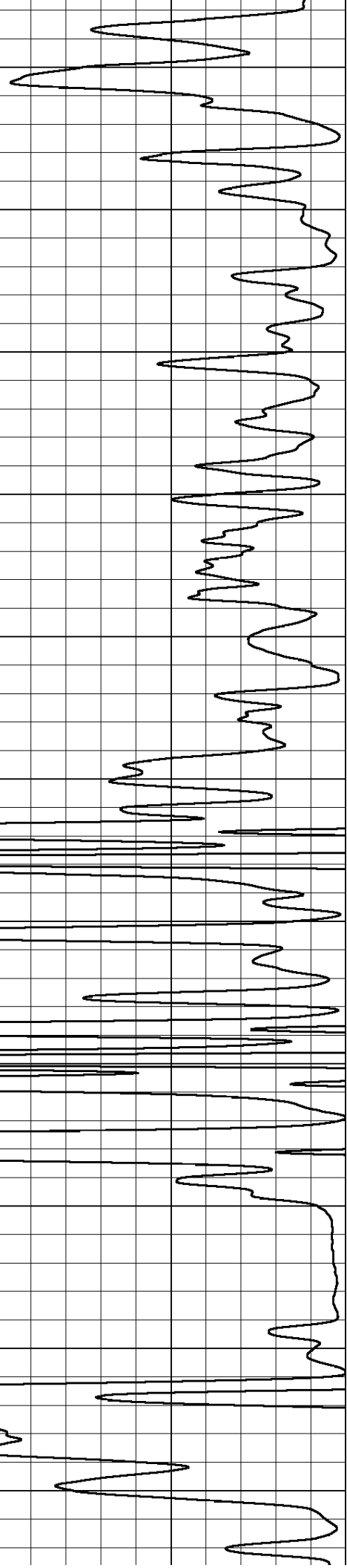
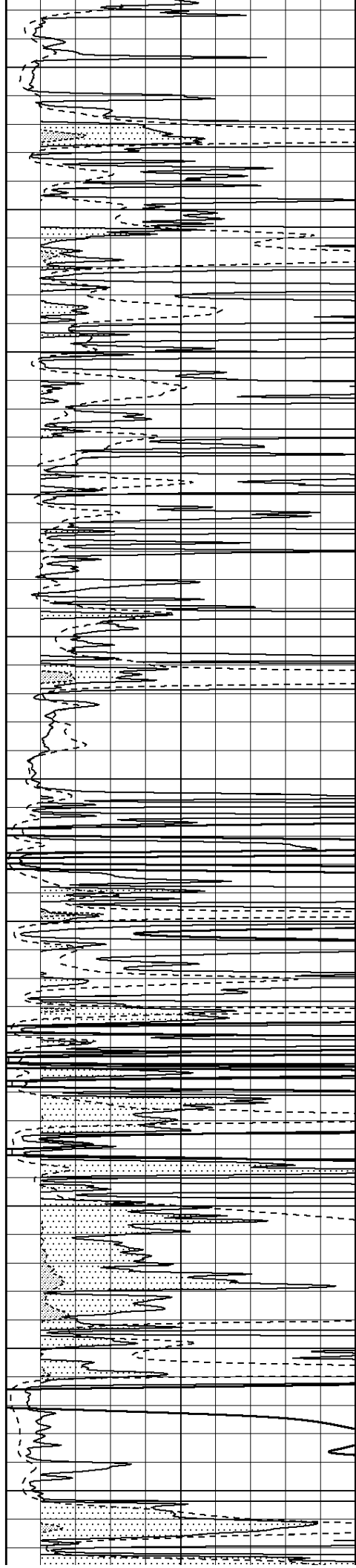
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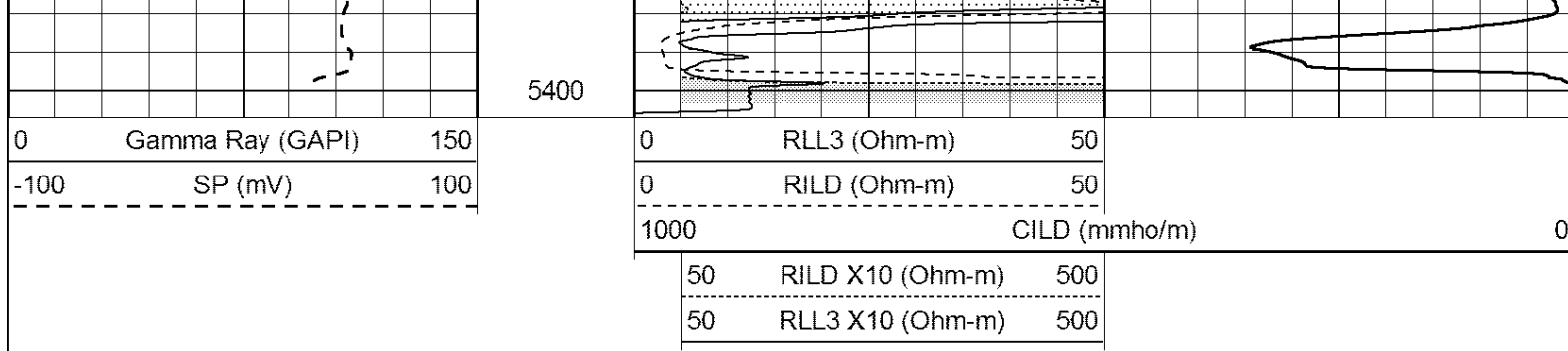
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5300

5350





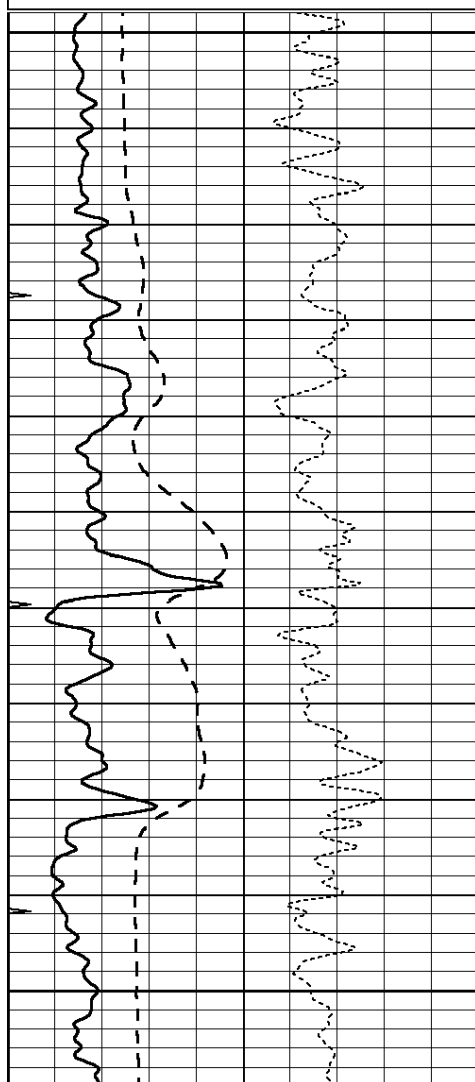
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 408422pe.db
Dataset Pathname: pass3.8
Presentation Format: dil
Dataset Creation: Sat Mar 03 21:34:25 2012
Charted by: Depth in Feet scaled 1:240

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

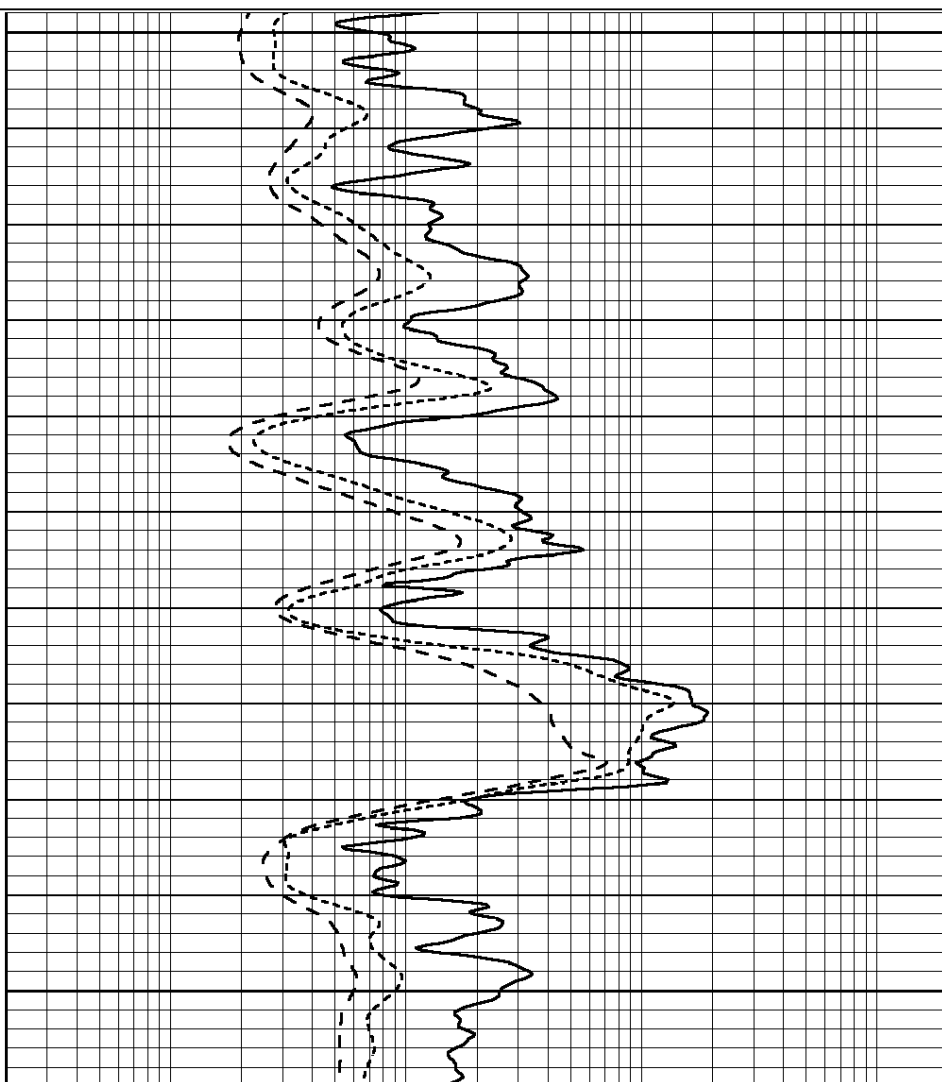
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

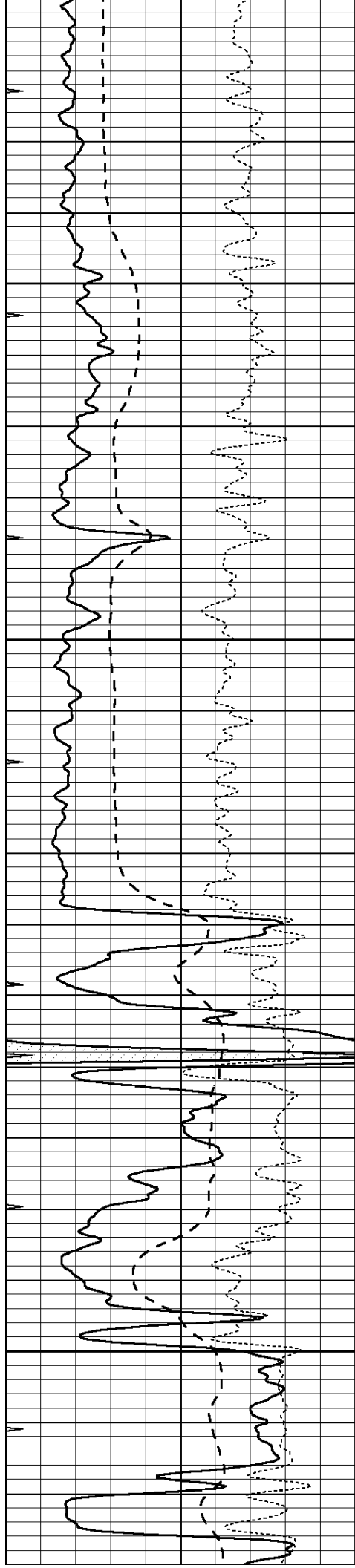


4000

4050

4100



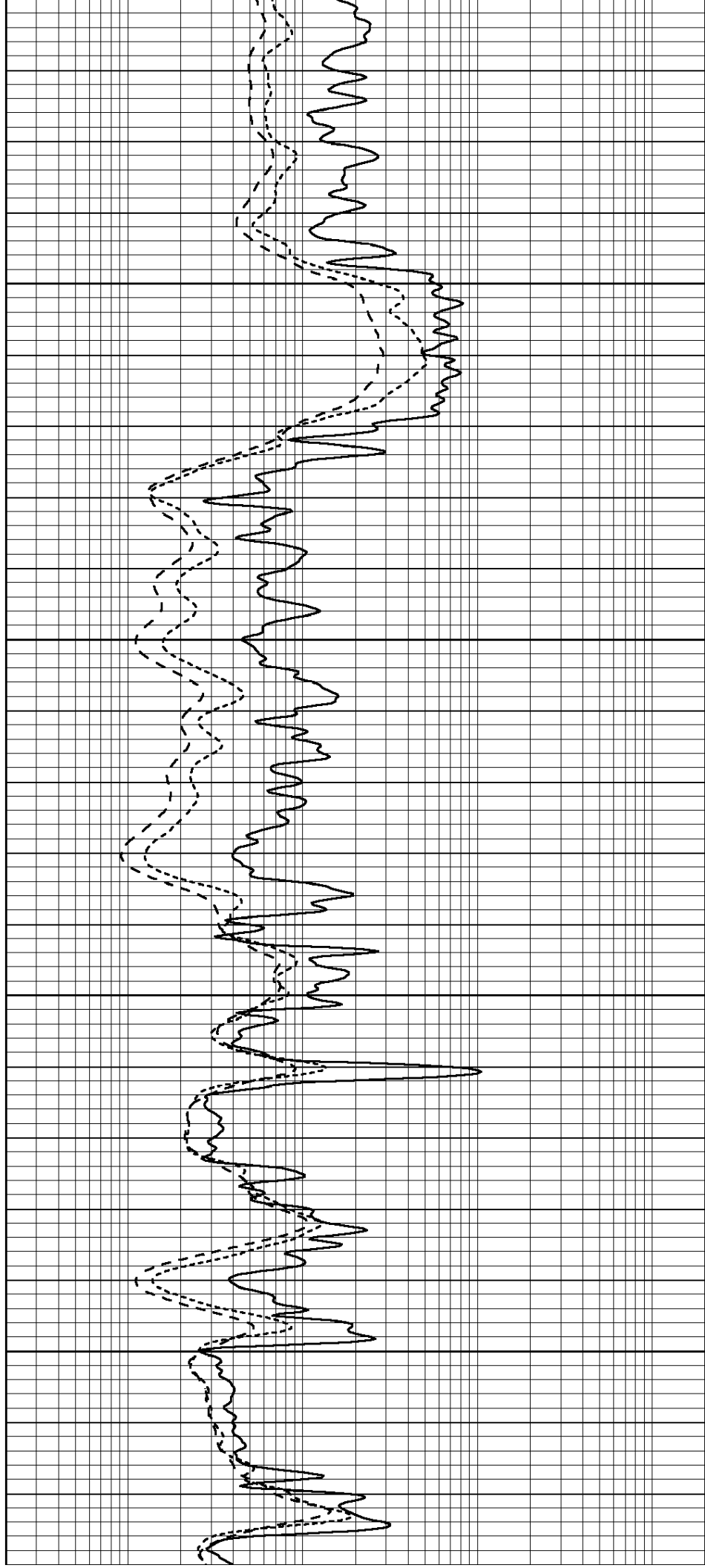


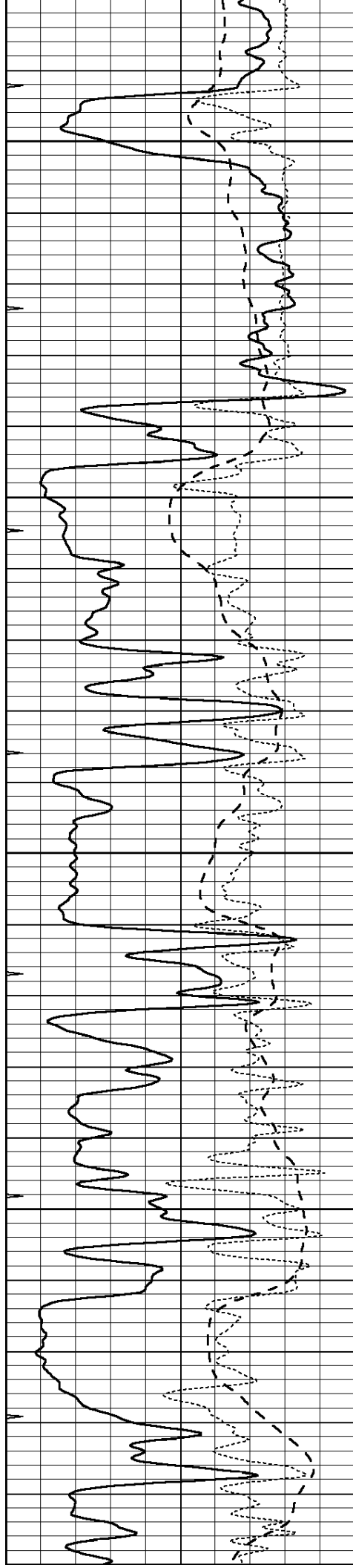
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4200

4250

4300





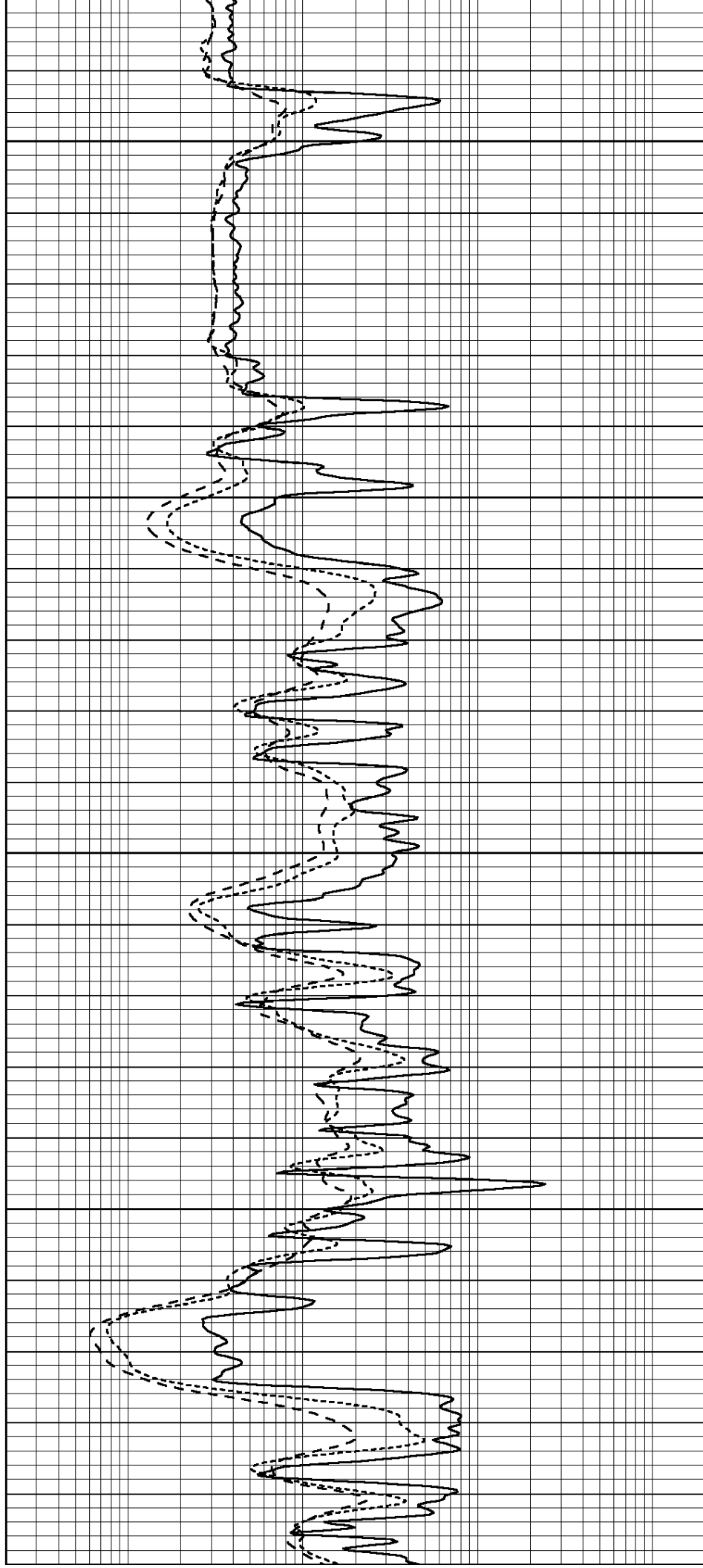
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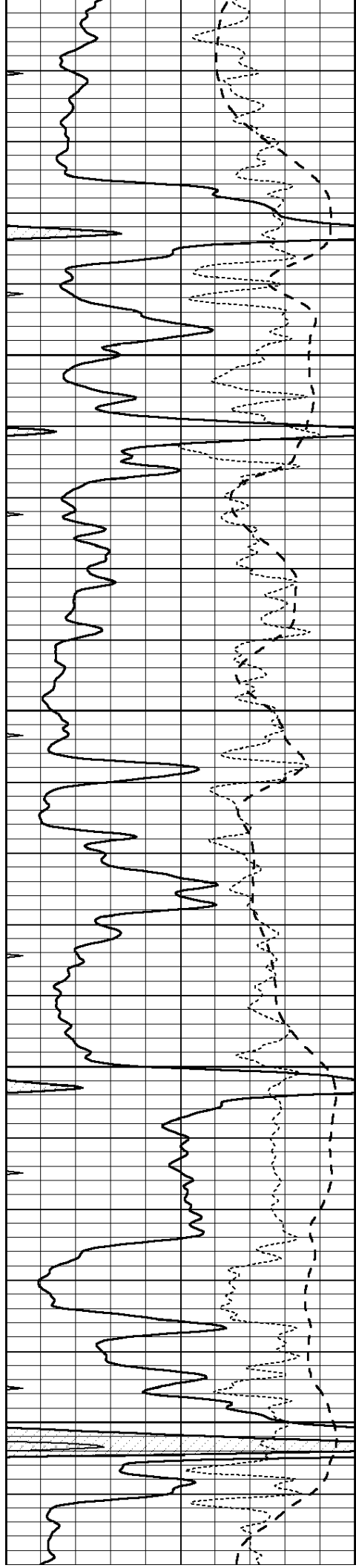
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4500

4550





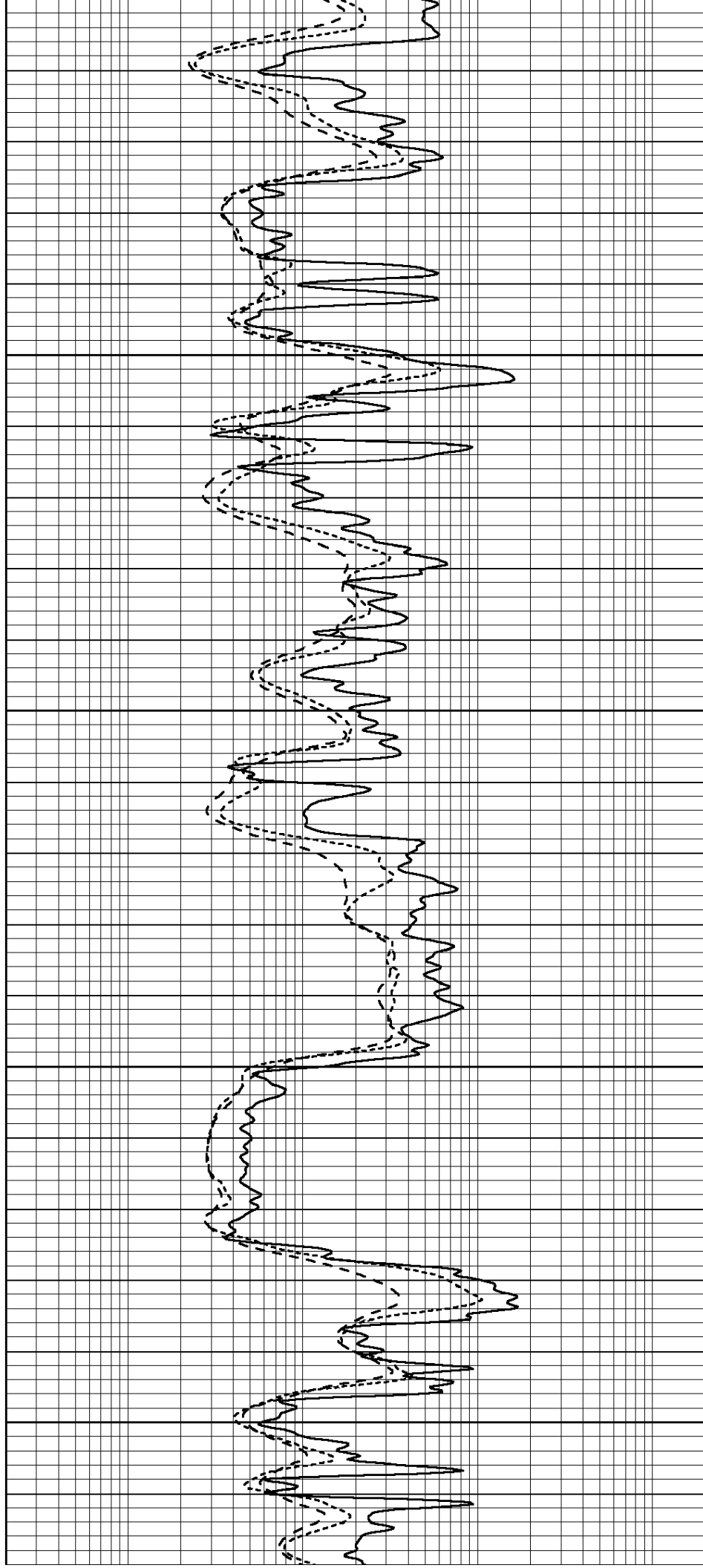
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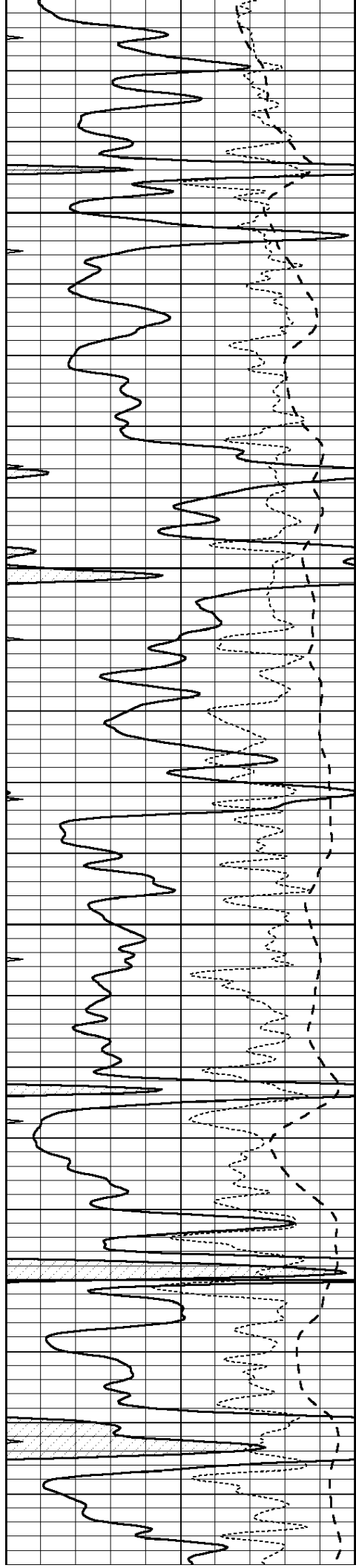
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4750



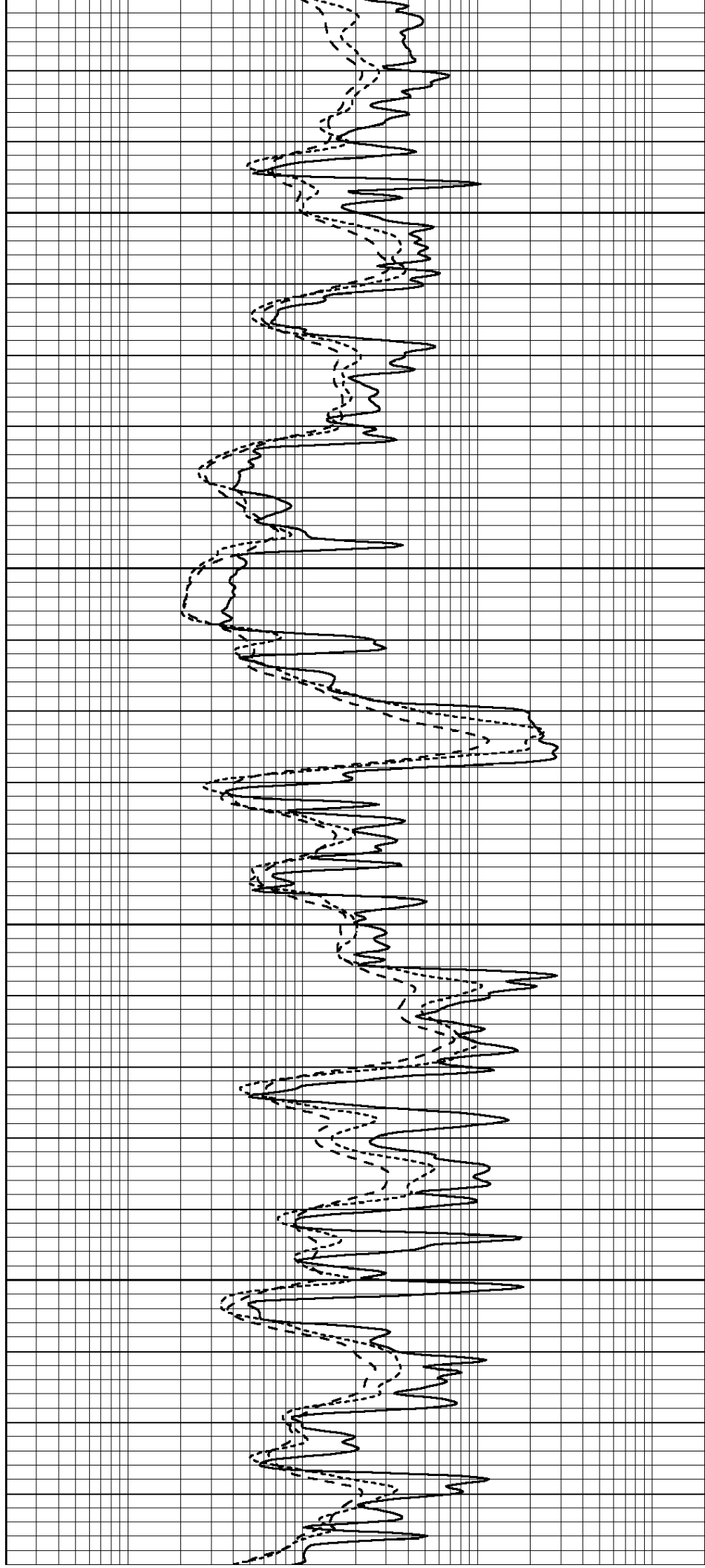


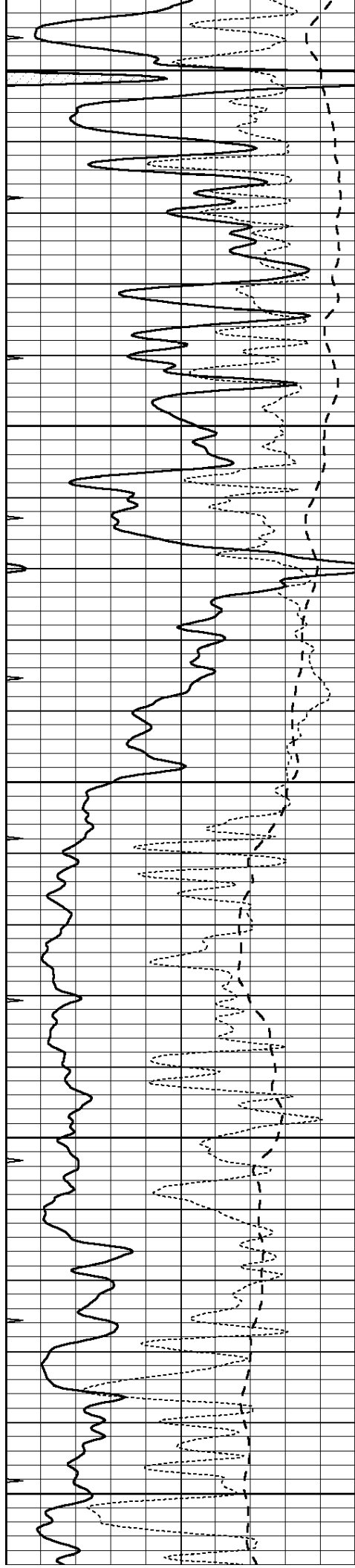
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4900

4950





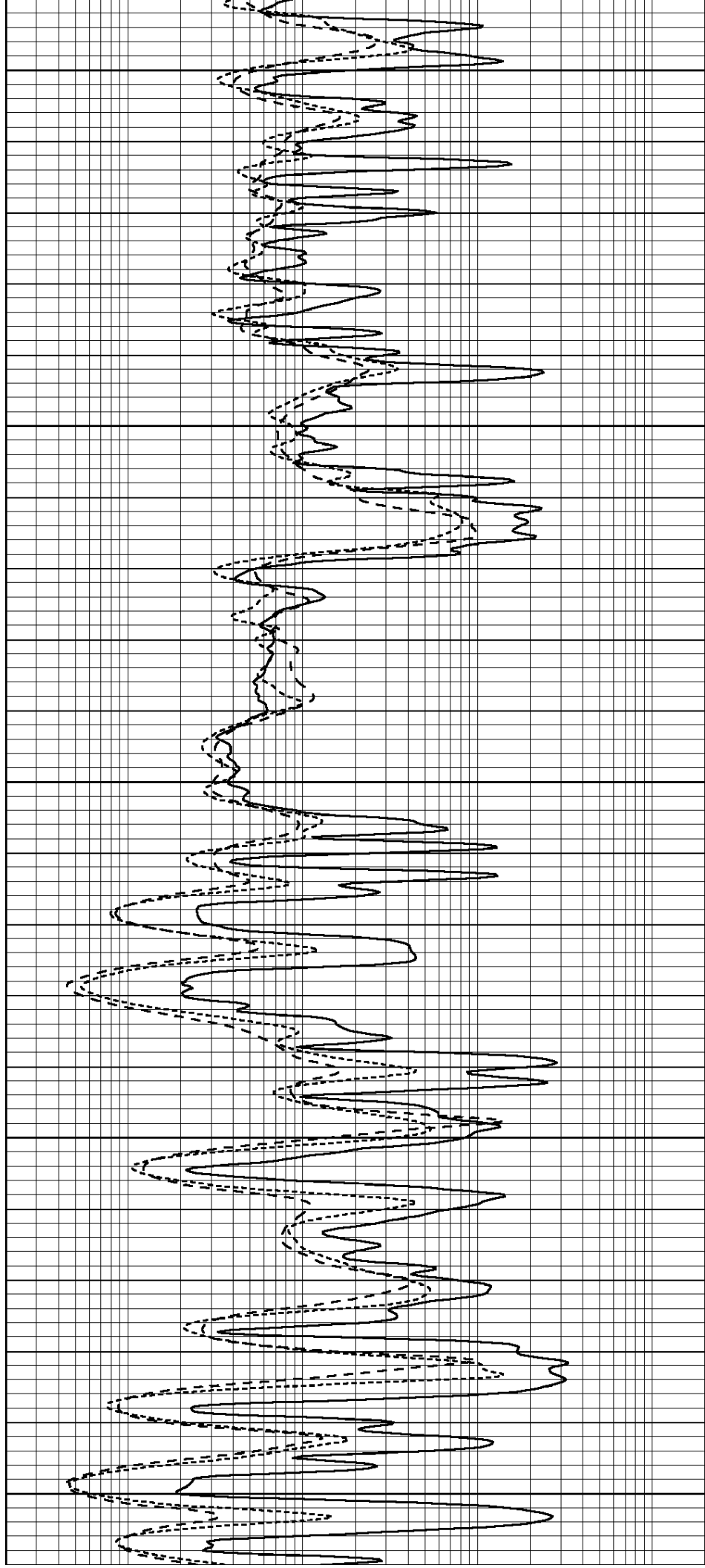
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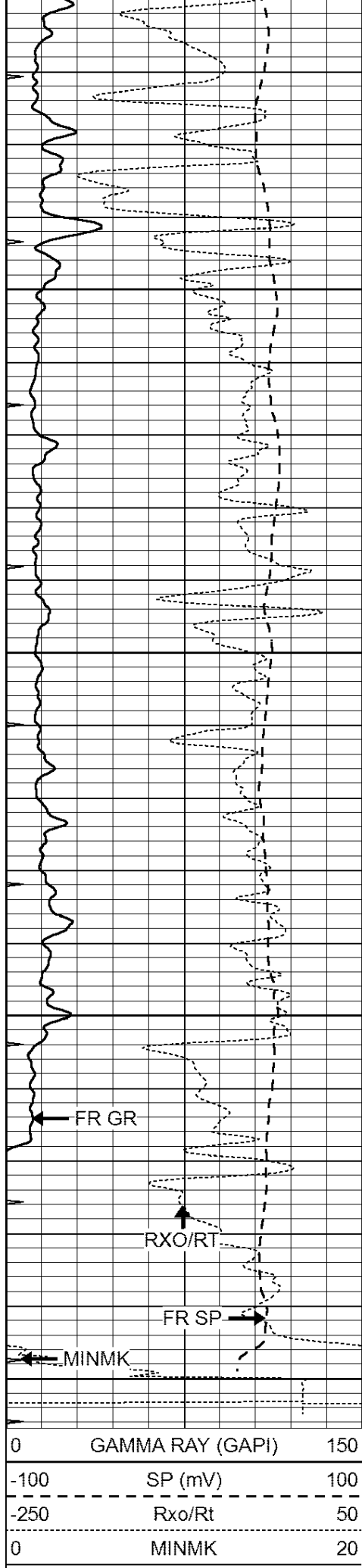
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5100

5150

5200



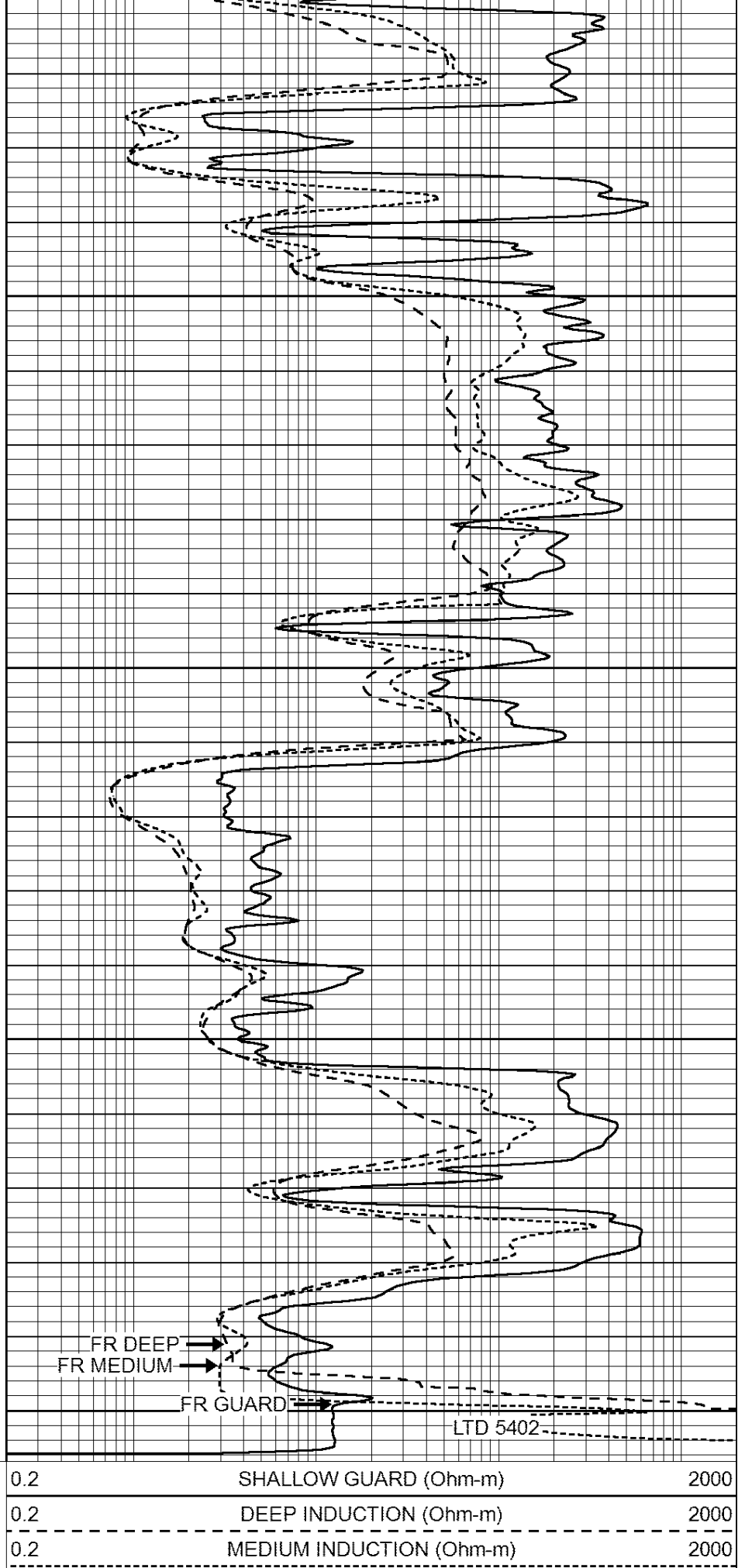


5250

5300

5350

5400



FR DEEP
FR MEDIUM

FR GUARD

LTD 5402



SUPERIOR

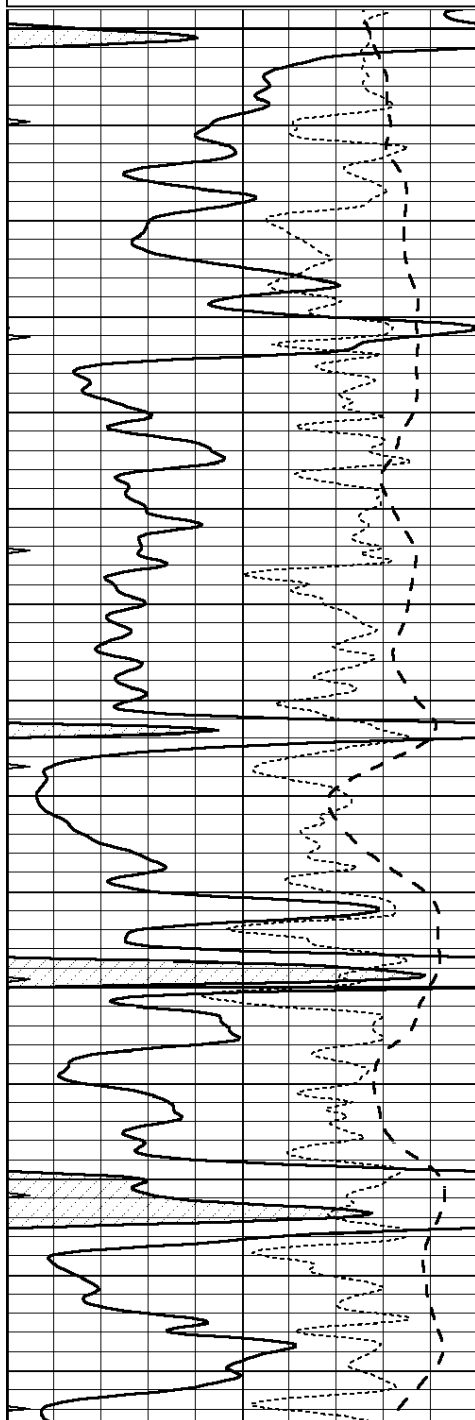
Hays,
Kansas

REPEAT SECTION

Database File: 408422pe.db
Dataset Pathname: pass2.5
Presentation Format: dil
Dataset Creation: Sat Mar 03 20:47:23 2012
Charted by: Depth in Feet scaled 1:240

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

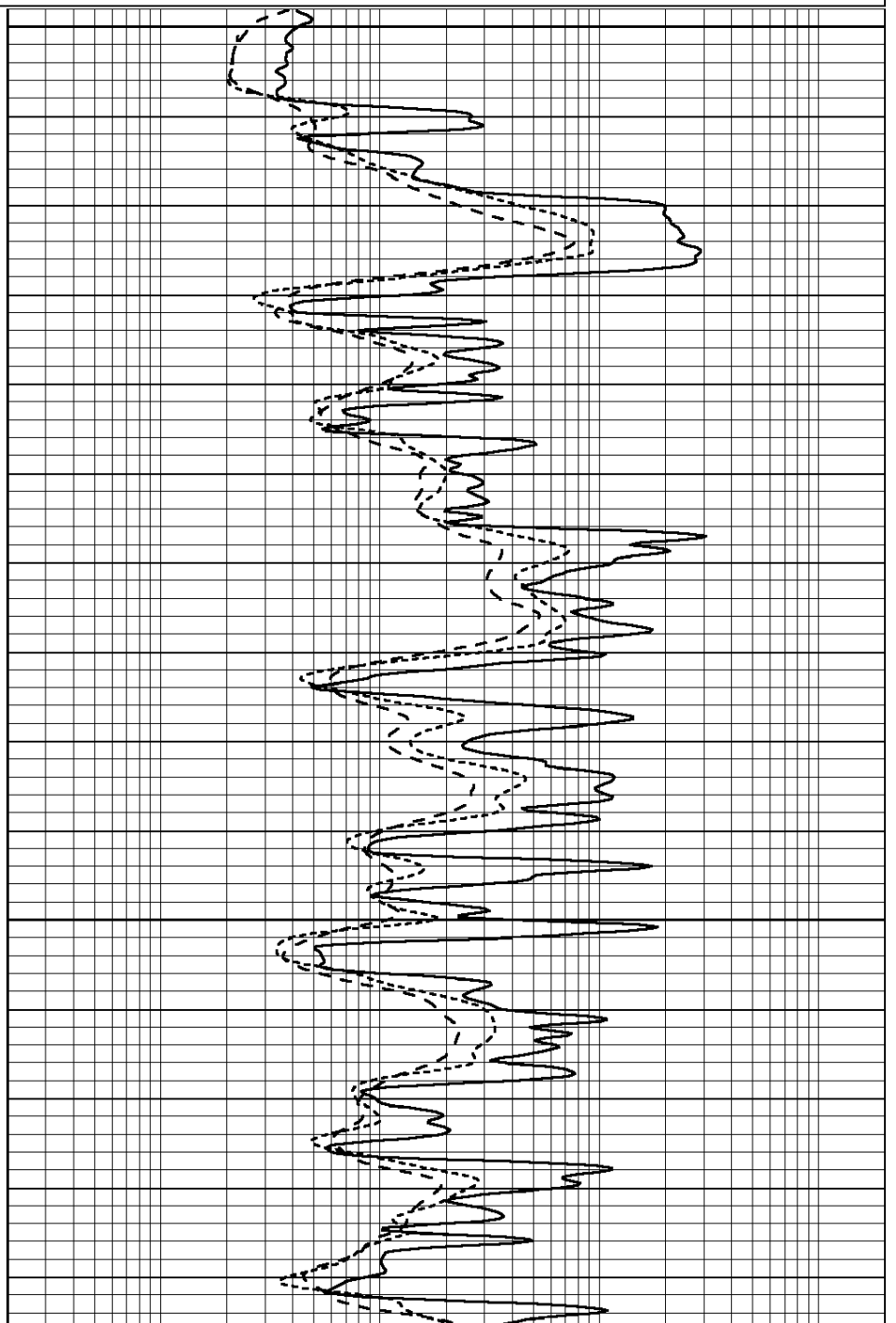
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

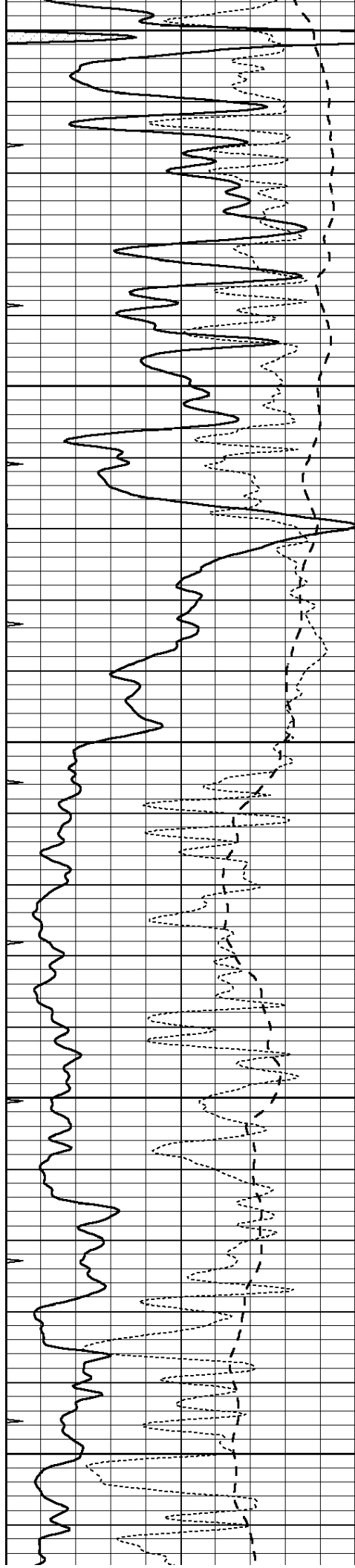


4850

4900

4950





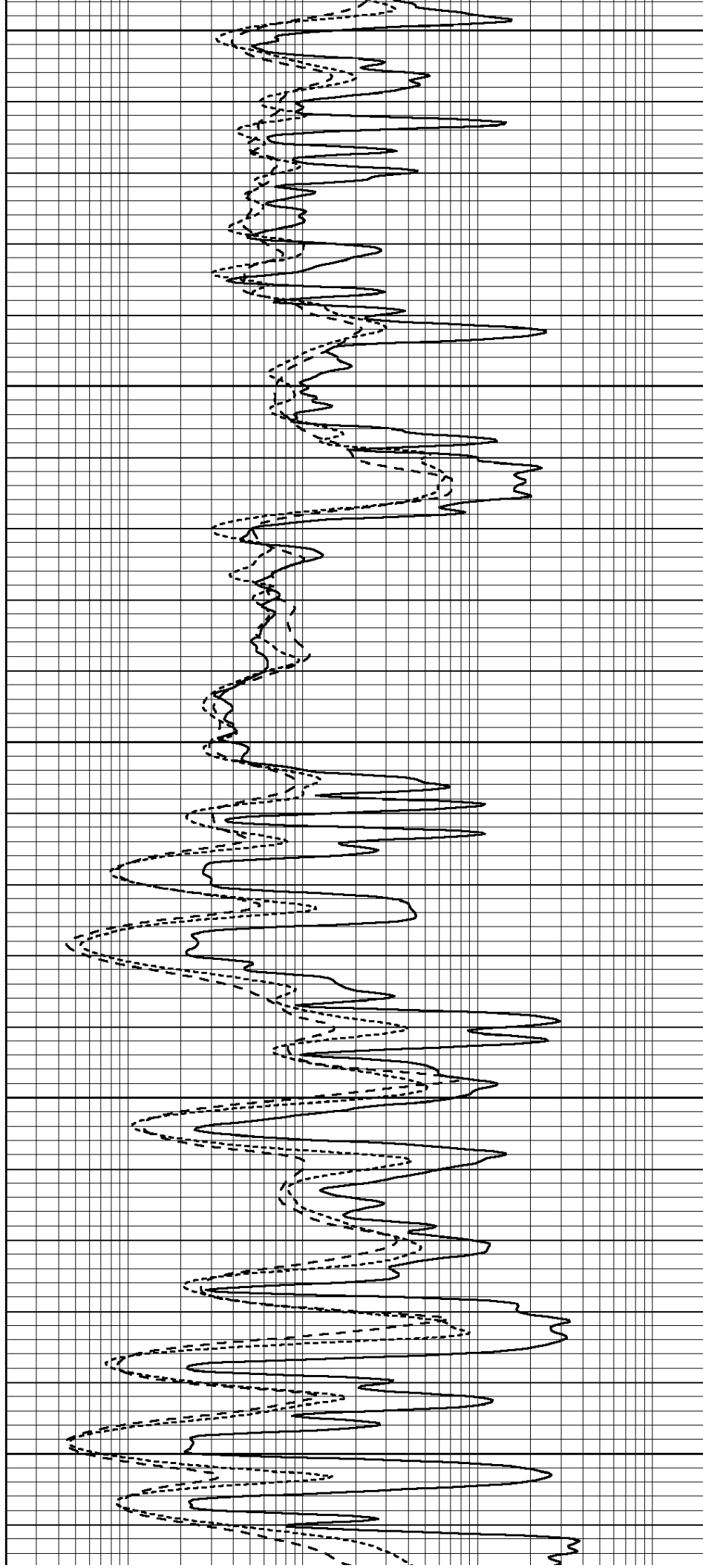
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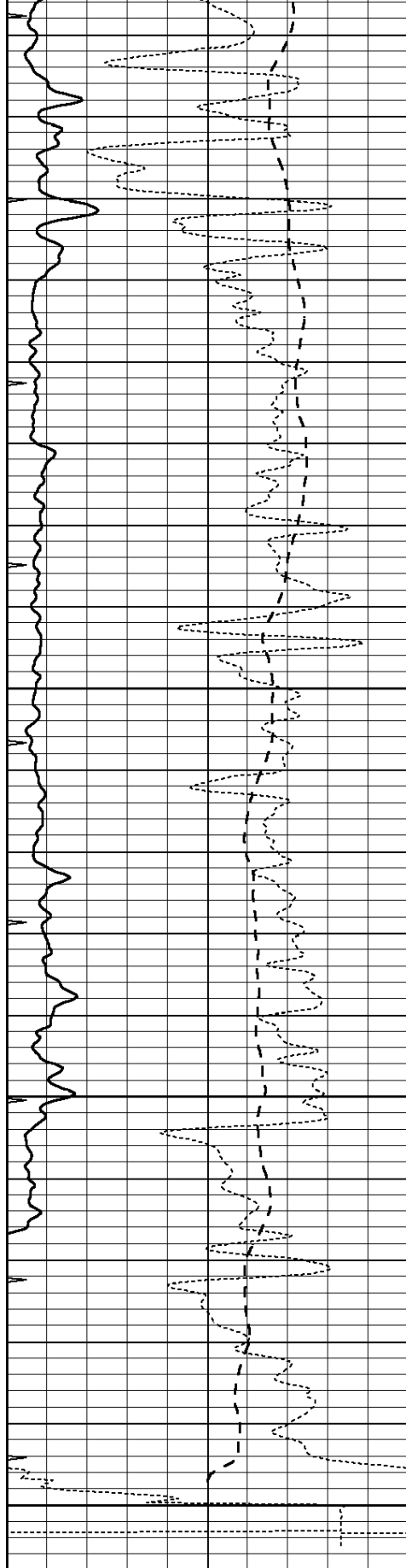
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5100

5150

5200





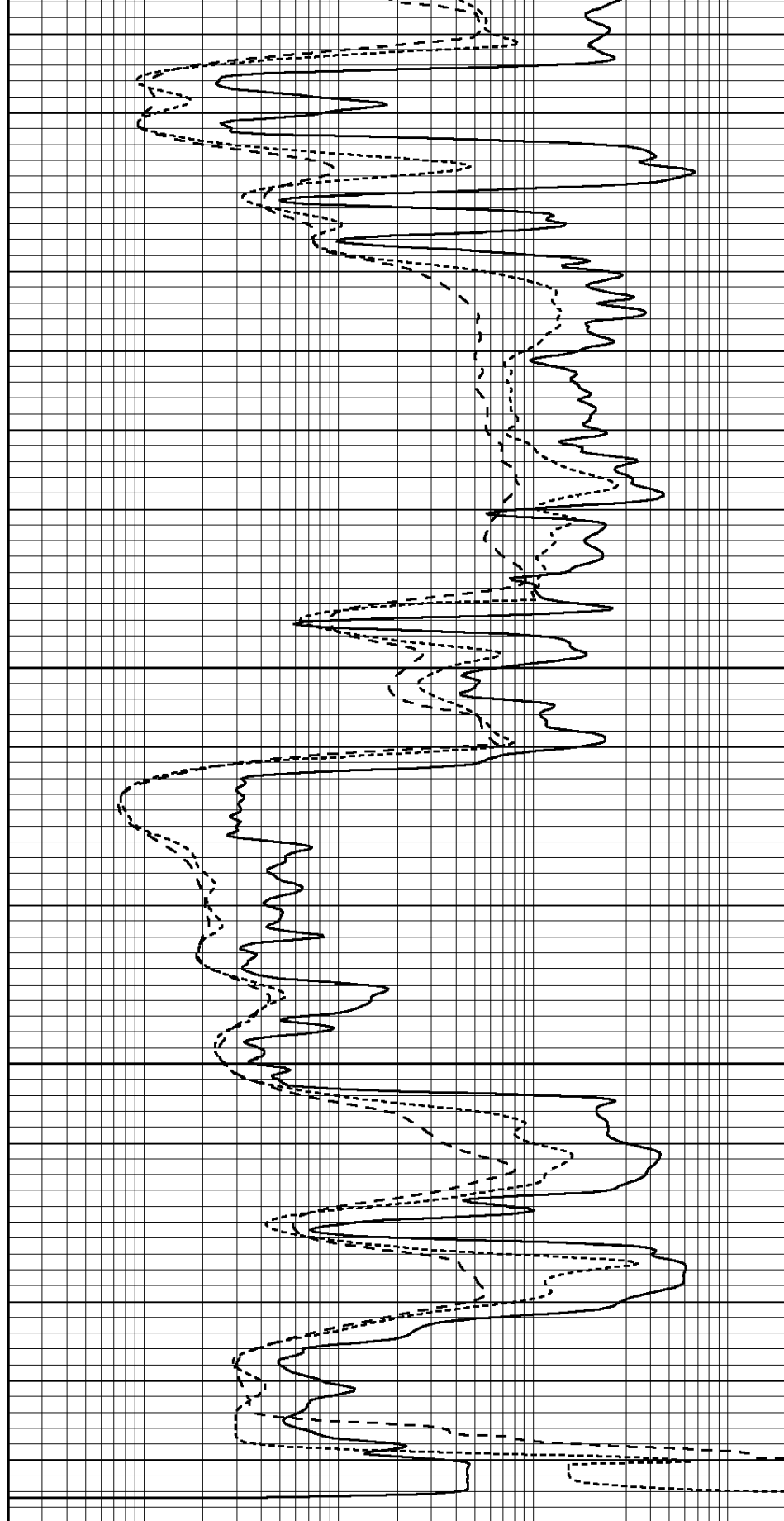
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

5250

5300

5350

5400



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

Database File: 408422pe.db

Dataset Pathname: pass3.8

Dataset Creation: Sat Mar 03 21:34:25 2012

Calibration Report

Dual Induction Calibration Report

Serial-Model:

Performed:

DIL3-GEAR

Sat Mar 03 18:17:23 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	8.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-7.500
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

Litho Density Calibration Report

Serial: 006 Model: PRB

Performed Sun Aug 15 09:48:41 2010

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1686.6	11612.8	3932.0	12718.8	cps
Window 2	1531.4	9204.7	3267.8	9851.9	cps
Window 3	1198.3	4733.6	1952.5	4920.6	cps
Window 4	317.3	321.2	325.9	303.6	cps
Long Space	0.0	7673.3	1736.4	8320.4	cps
Short Space	1.7	2548.5	1657.2	2628.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle : 43.8

Spine Angle : 73.8

Rib Slope : 0.961

Spine Slope : 3.453

Density/Spine Ratio : 0.569

Spine Intercept : -18.1

Caliper

	Readings	Reference
Low Ref	4.0	8.2
High Ref	5.9	15.0

Gain: 3.5 Offset: -5.8

Compensated Neutron Calibration Report

Serial Number:

Tool Model:

070808

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: Fri Mar 02 09:11:18 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps