



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	RED OAK ENERGY, INC.	Company	RED OAK ENERGY, INC.
Well	SCHUSTER #1	Well	SCHUSTER #1
Field	WILDCAT	Field	WILDCAT
County	SEDGWICK	County	SEDGWICK
State	KANSAS	State	KANSAS
Location:	API # : 15-173-21006-0000 990' FSL & 1980' FEL N/2 - SW - SE	Other Services CDL/CNL/PE MEL/SONIC	
Permanent Datum	GROUND LEVEL	Elevation	1320
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 8	TWP 29S	RGE 3W	
Date	10/20/11		
Run Number	ONE		
Depth Driller	4360		
Depth Logger	4360		
Bottom Logged Interval	4358		
Top Log Interval	00		
Casing Driller	8 5/8"@289'		
Casing Logger	284		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.1/45		
pH / Fluid Loss	10.5/10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@84F		
Rmt @ Meas. Temp	.450@84F		
Rmc @ Meas. Temp	.720@84F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.424@119F		
Time Circulation Stopped	4 HOURS		
Time Logger on Bottom	6:45 P.M.		
Maximum Recorded Temperature	119F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TIM PRIEST	NATHAN CALDWELL	

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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
VIOLA, KS. 3N. OF HWY 42, 1 1/2W., N. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 007466pe.db
Dataset Pathname: pass4.8
Presentation Format: dil2
Dataset Creation: Thu Oct 20 20:35:31 2011
Charted by: Depth in Feet scaled 1:600

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

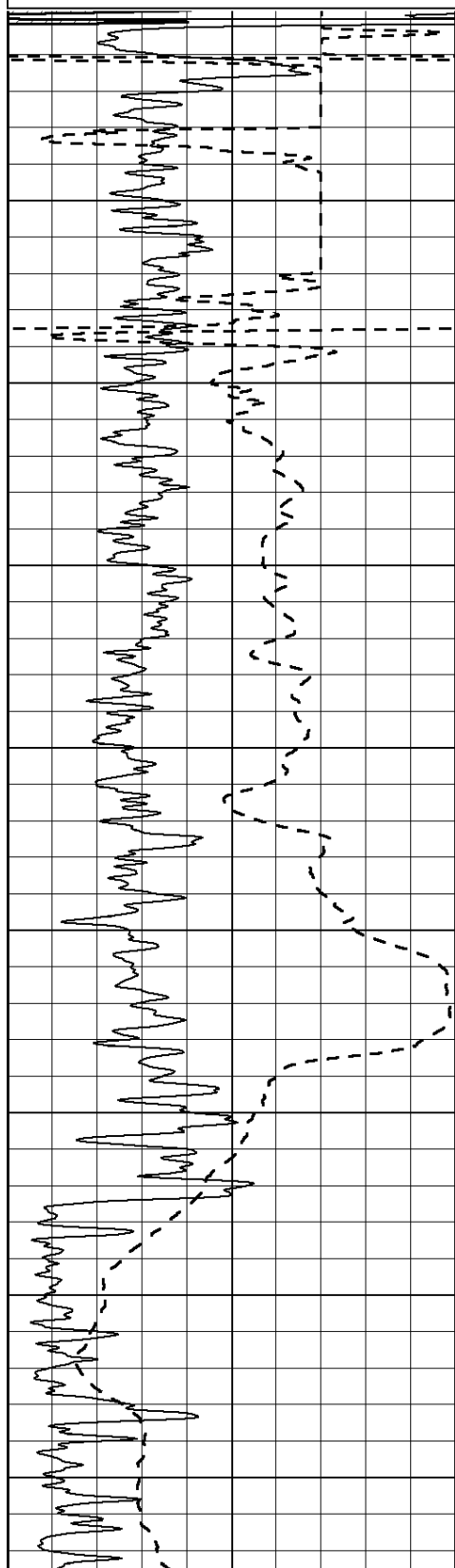
0	RLL3 (Ohm-m)	50
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0	RILD (Ohm-m)	50
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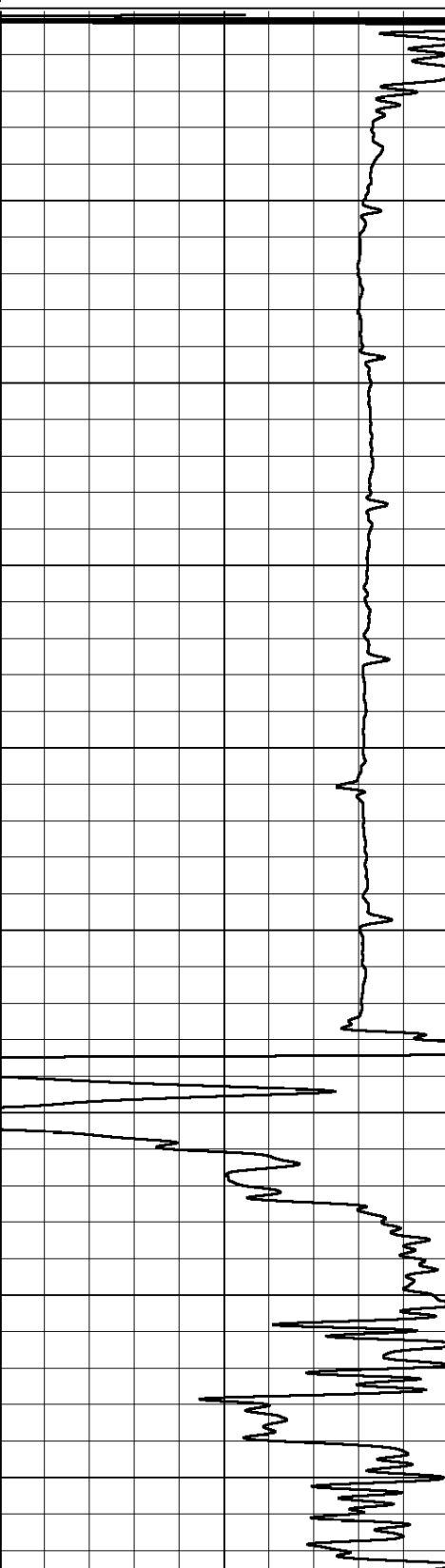
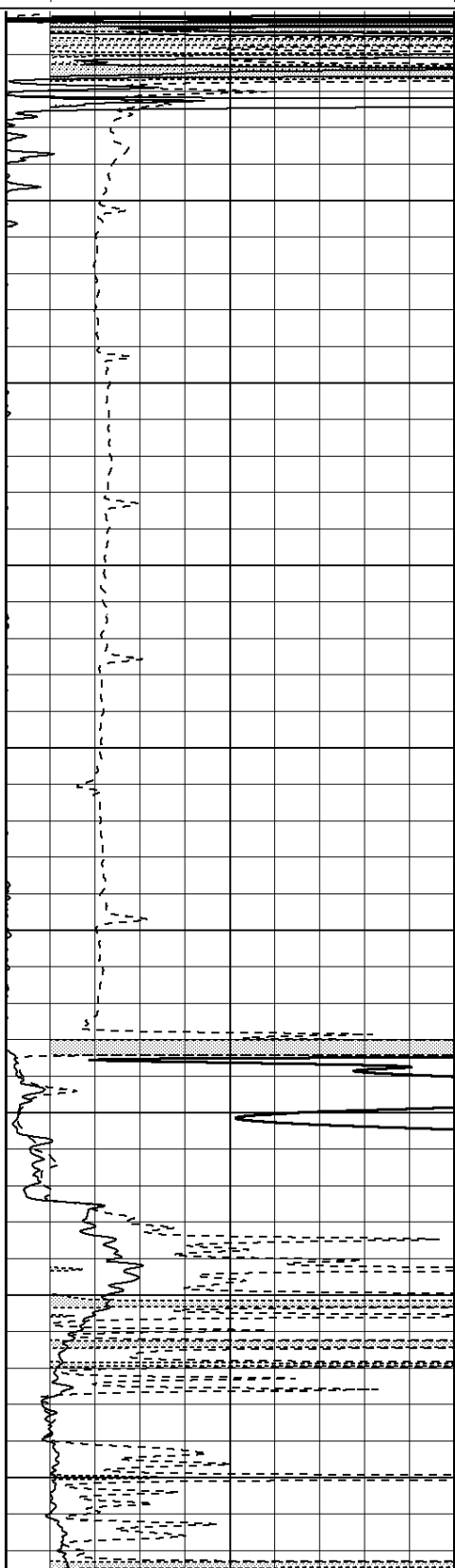
1000	CILD (mmho/m)	0
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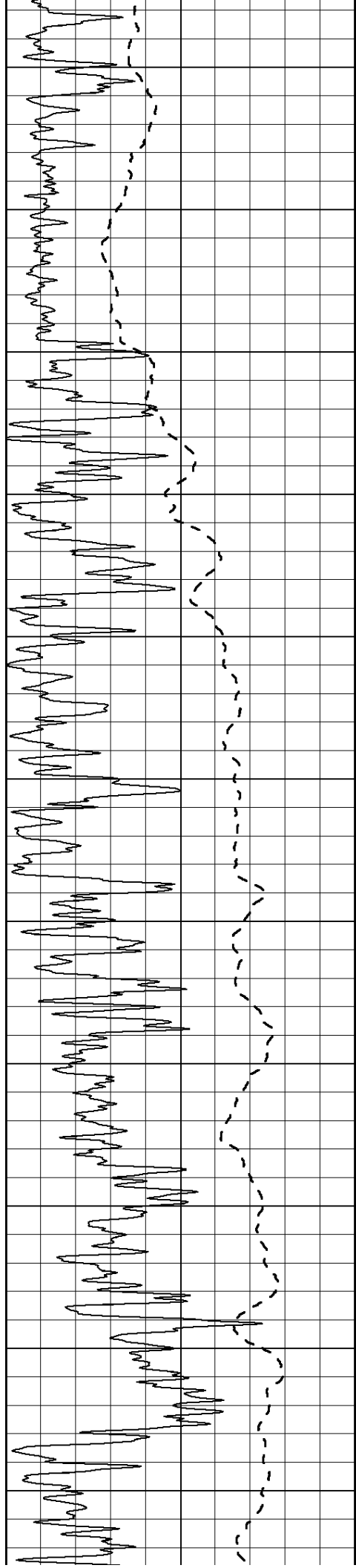
50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

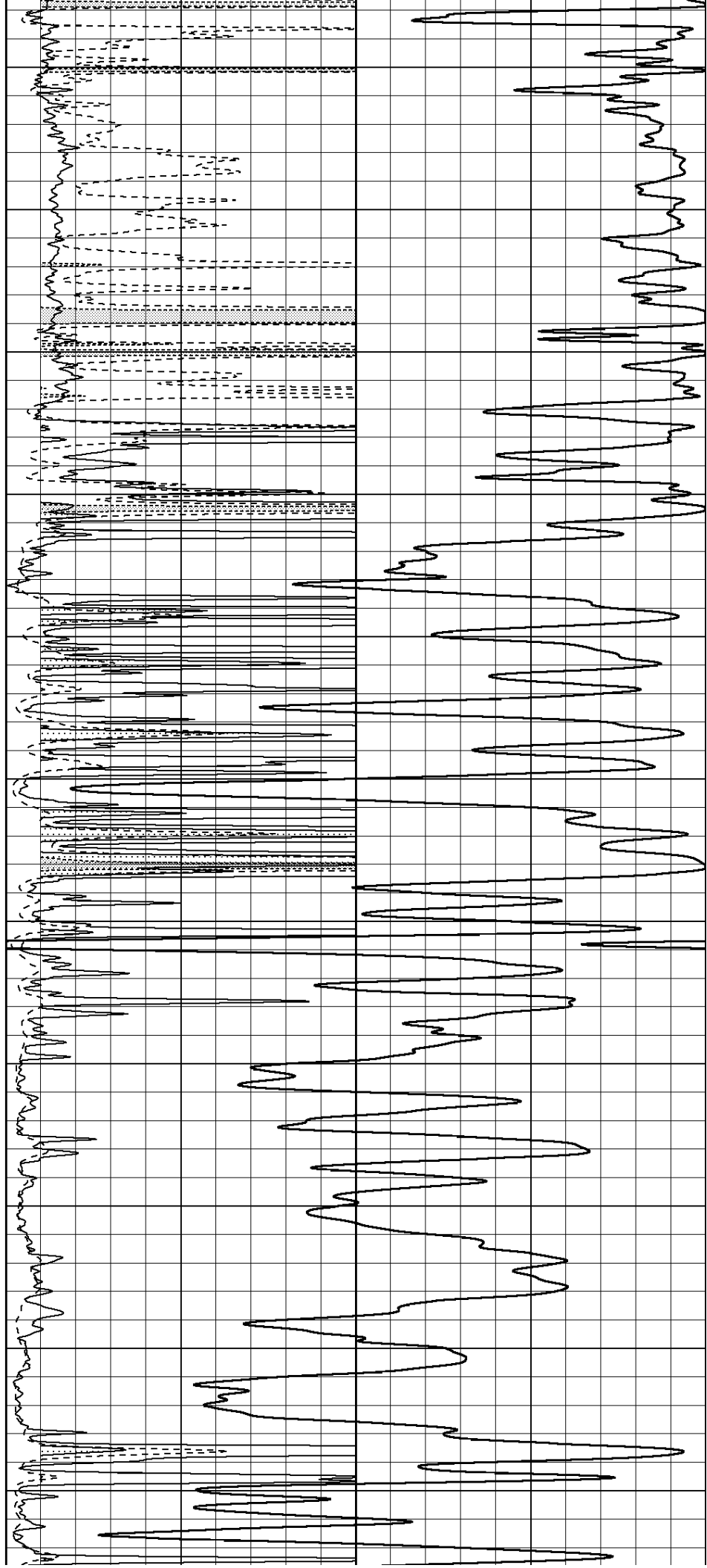
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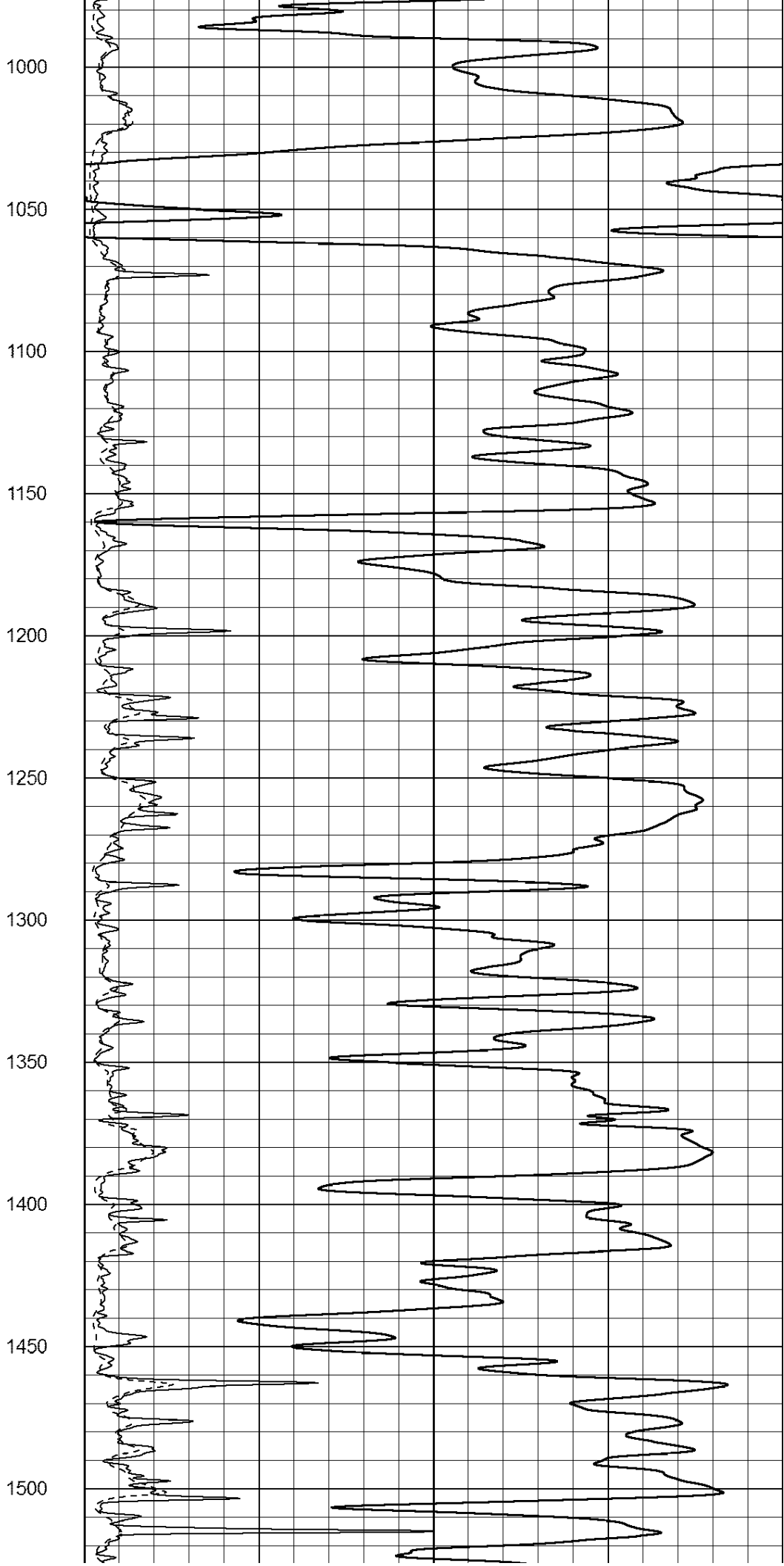
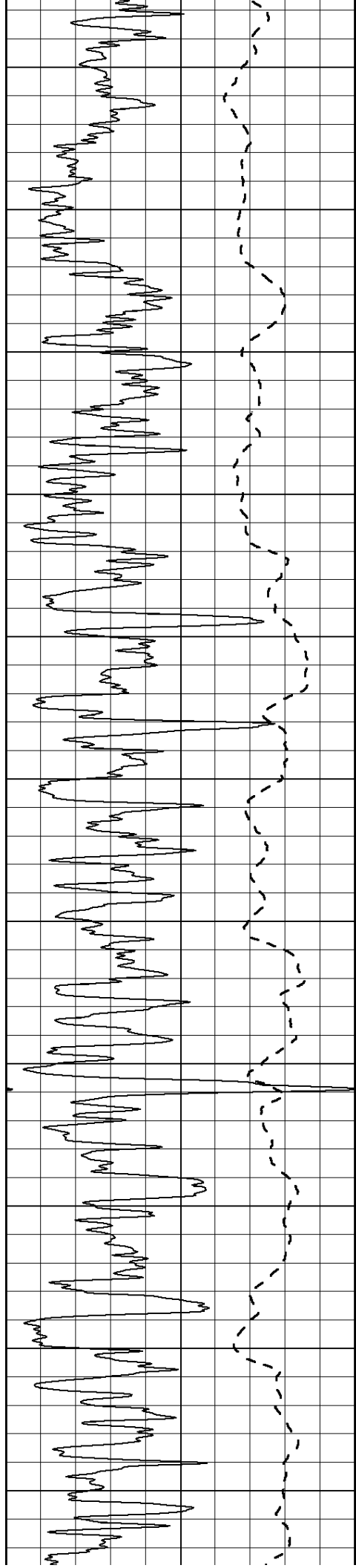
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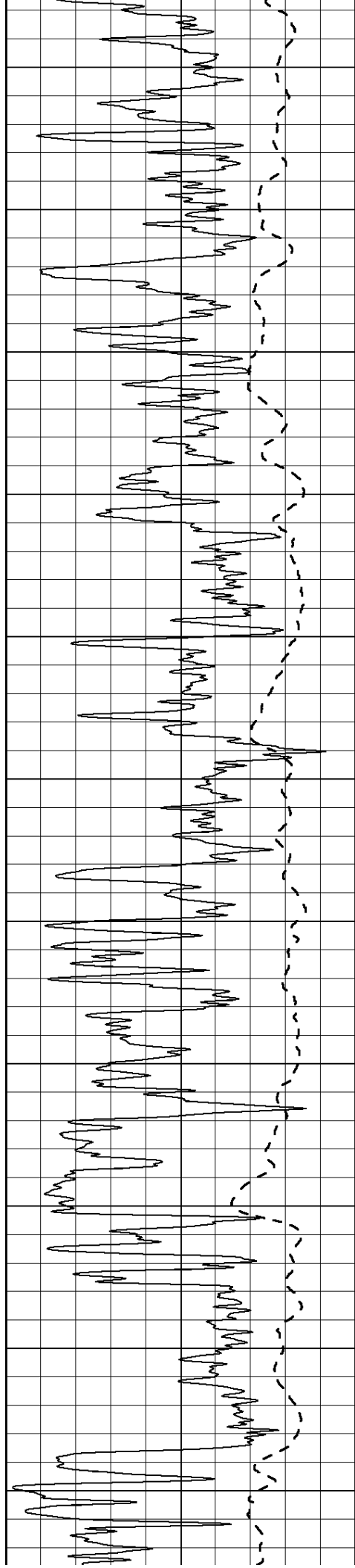
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900

950







1550

1600

1650

1700

1750

1800

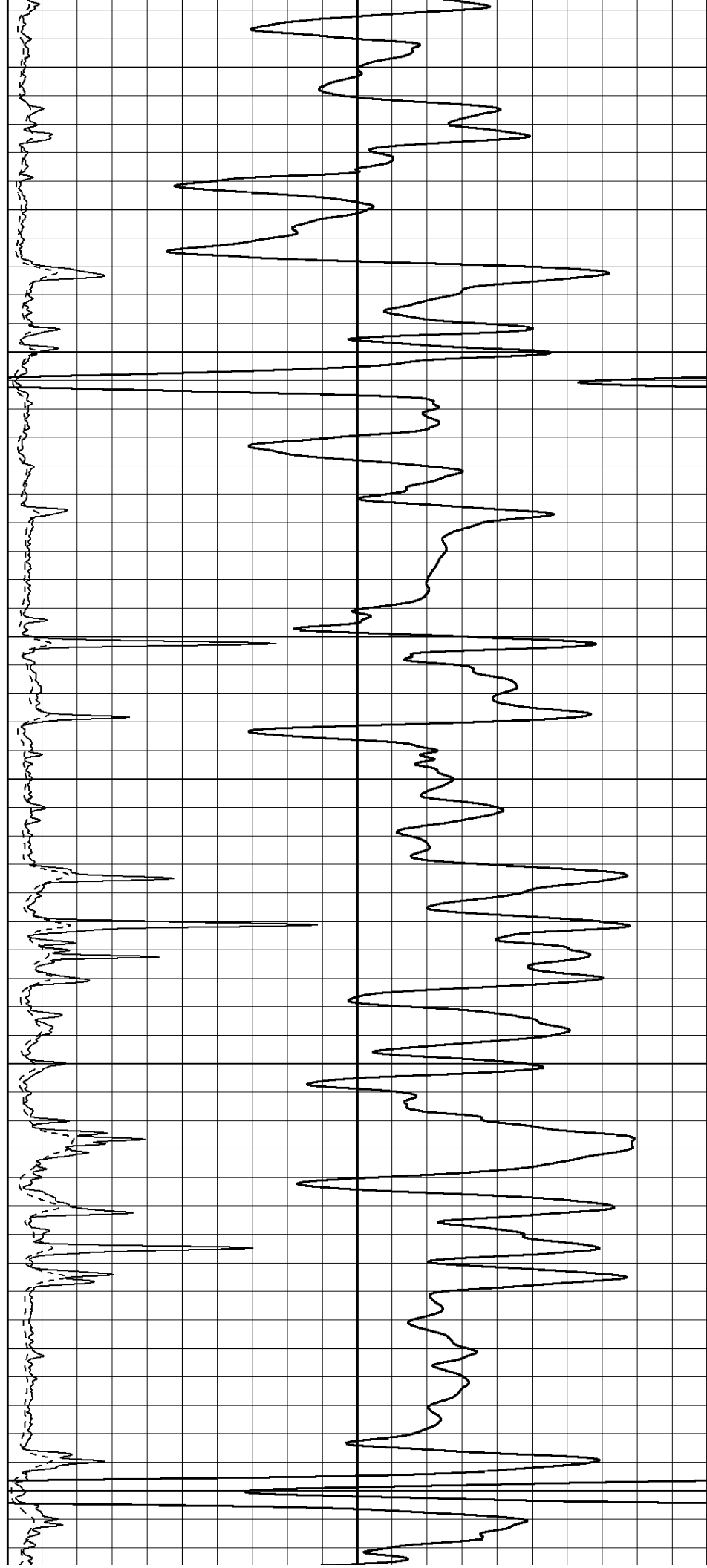
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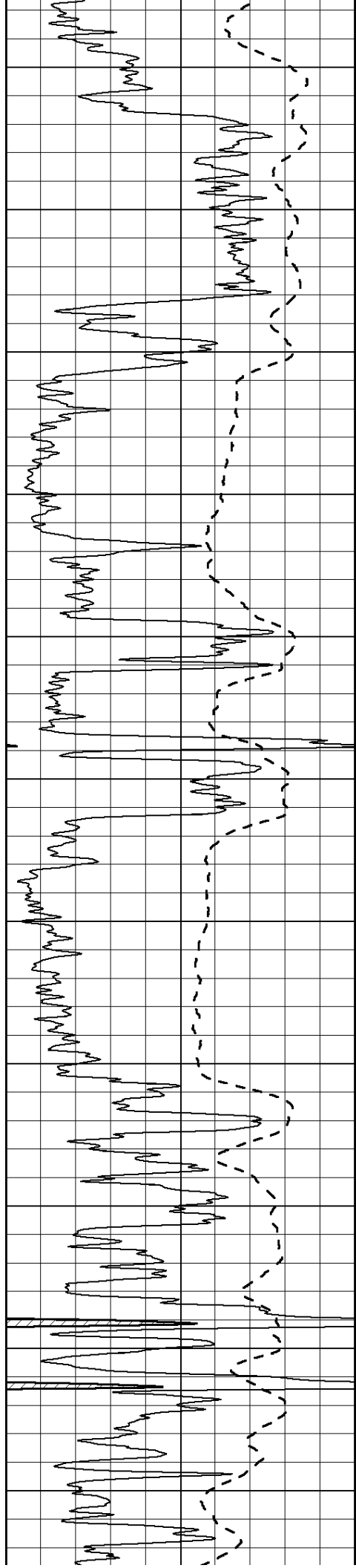
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1950

2000

2050





2100

2150

2200

2250

2300

2350

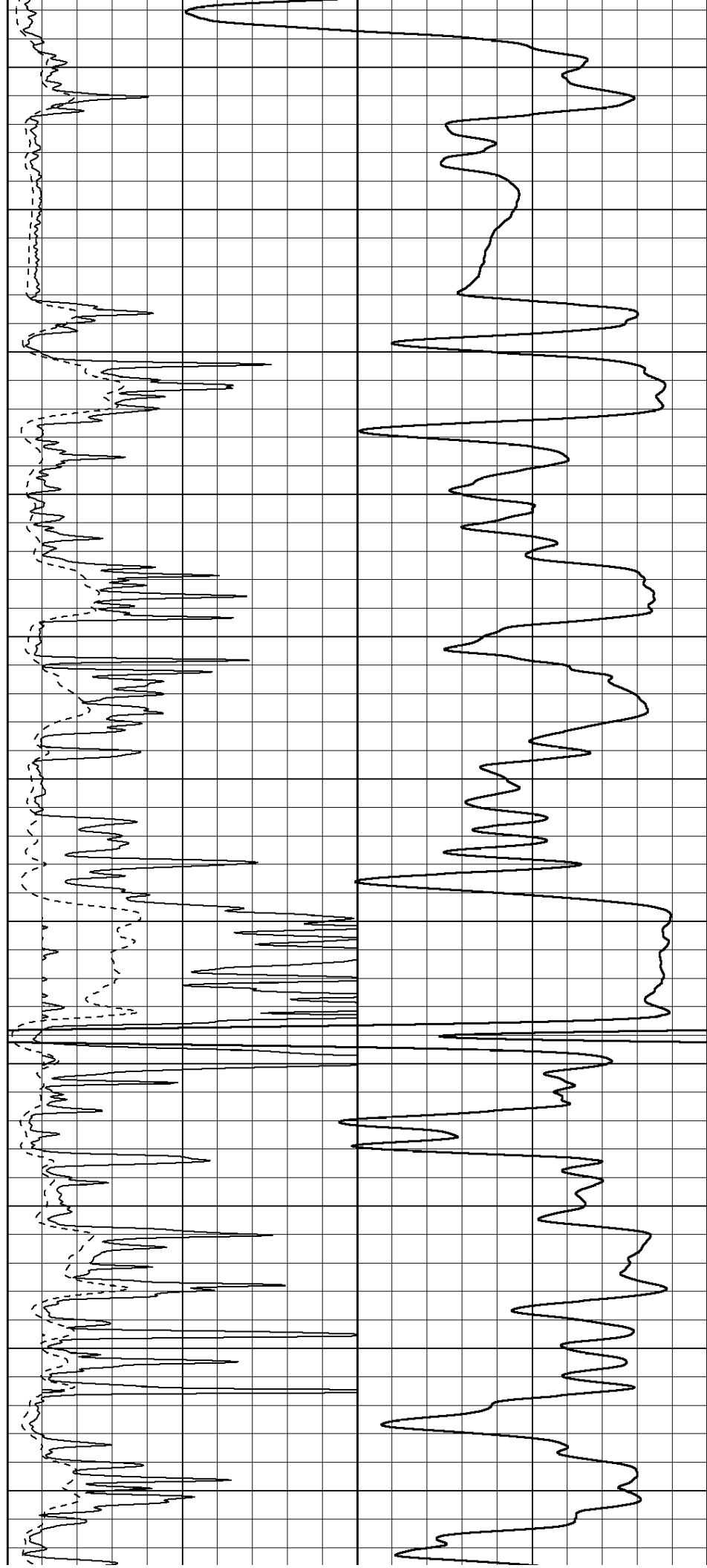
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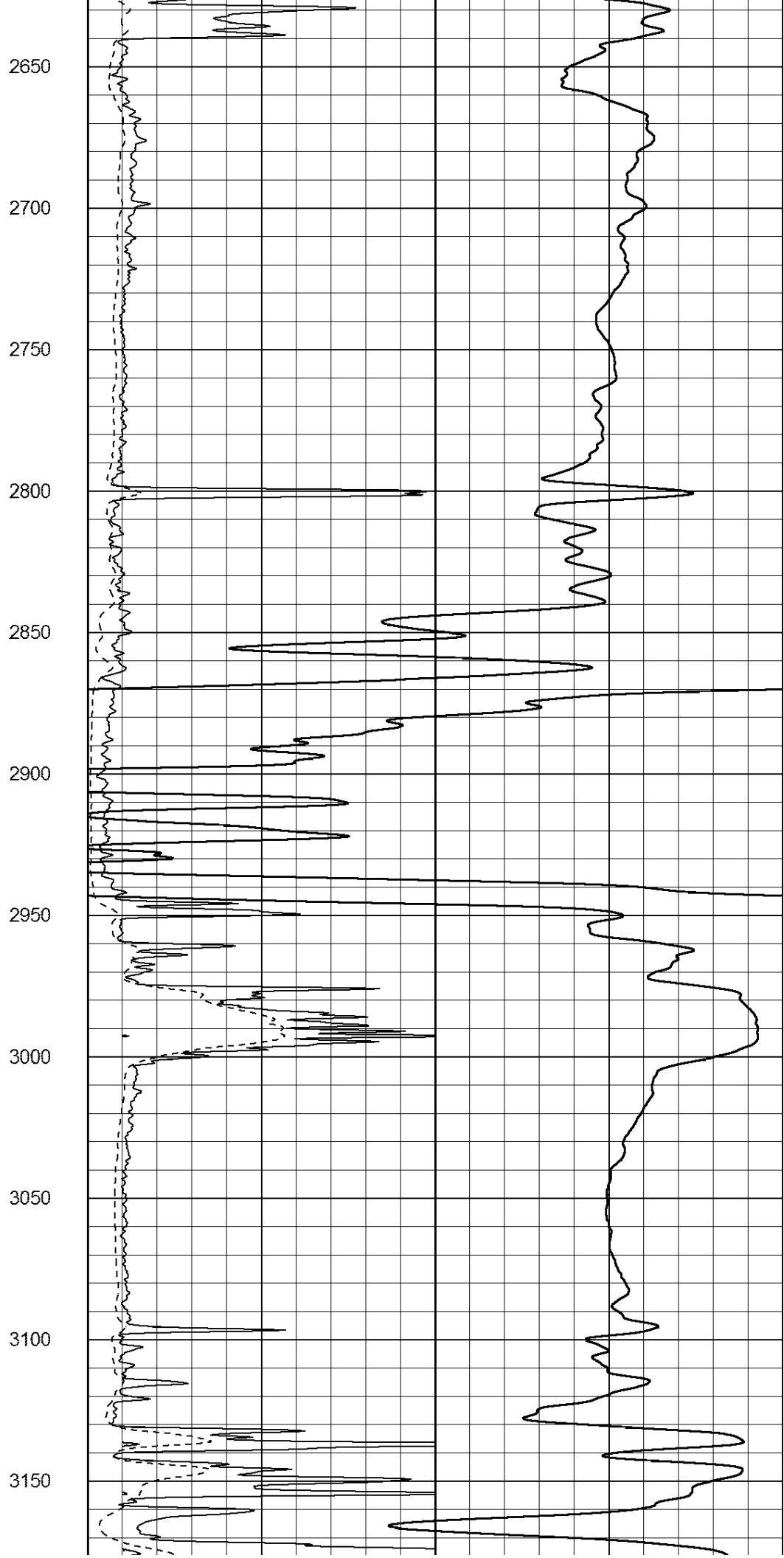
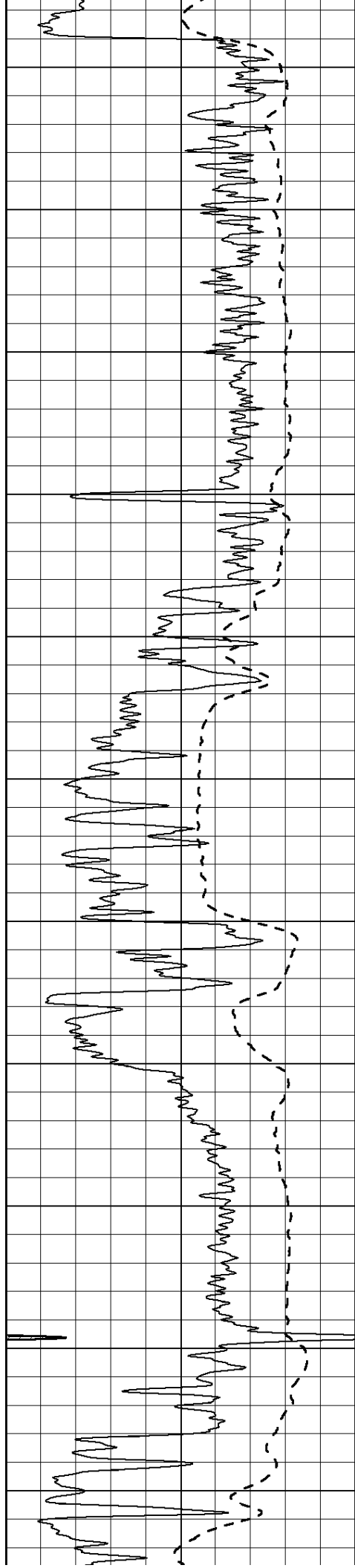
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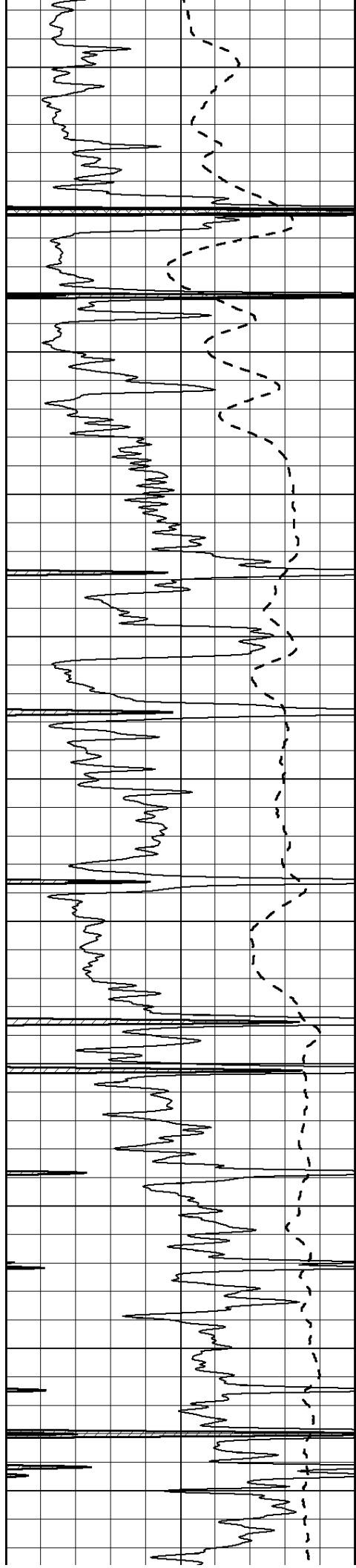
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2550

2600







3200

3250

3300

3350

3400

3450

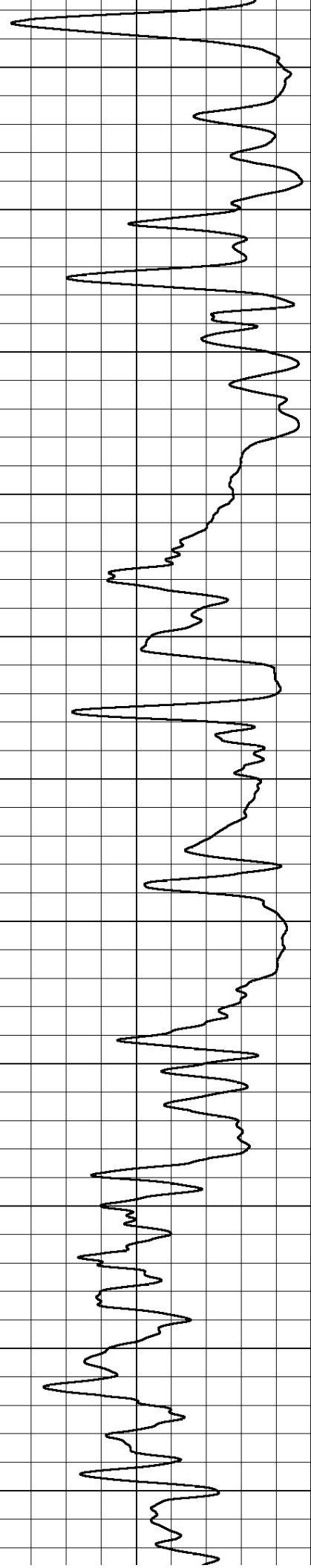
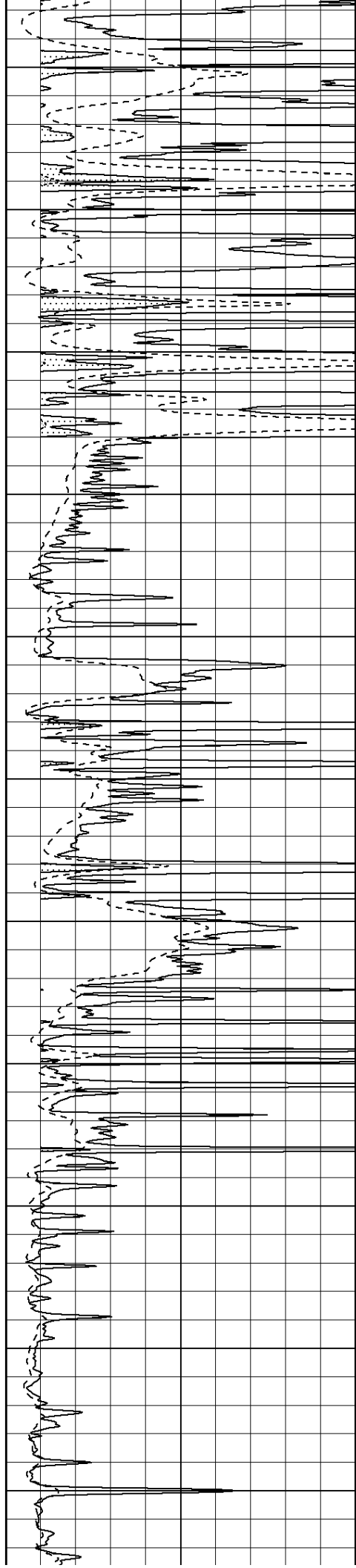
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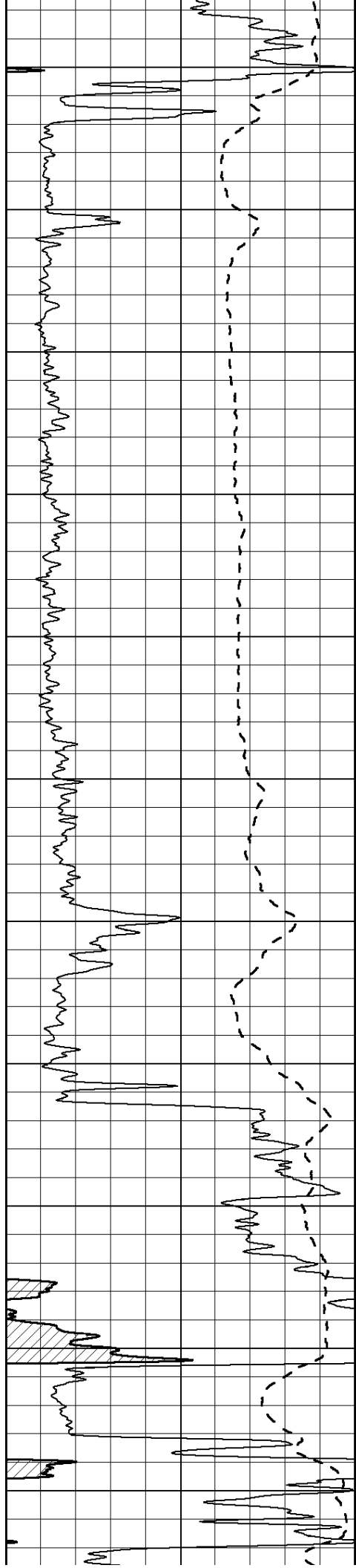
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3650

3700





3750

3800

3850

3900

3950

4000

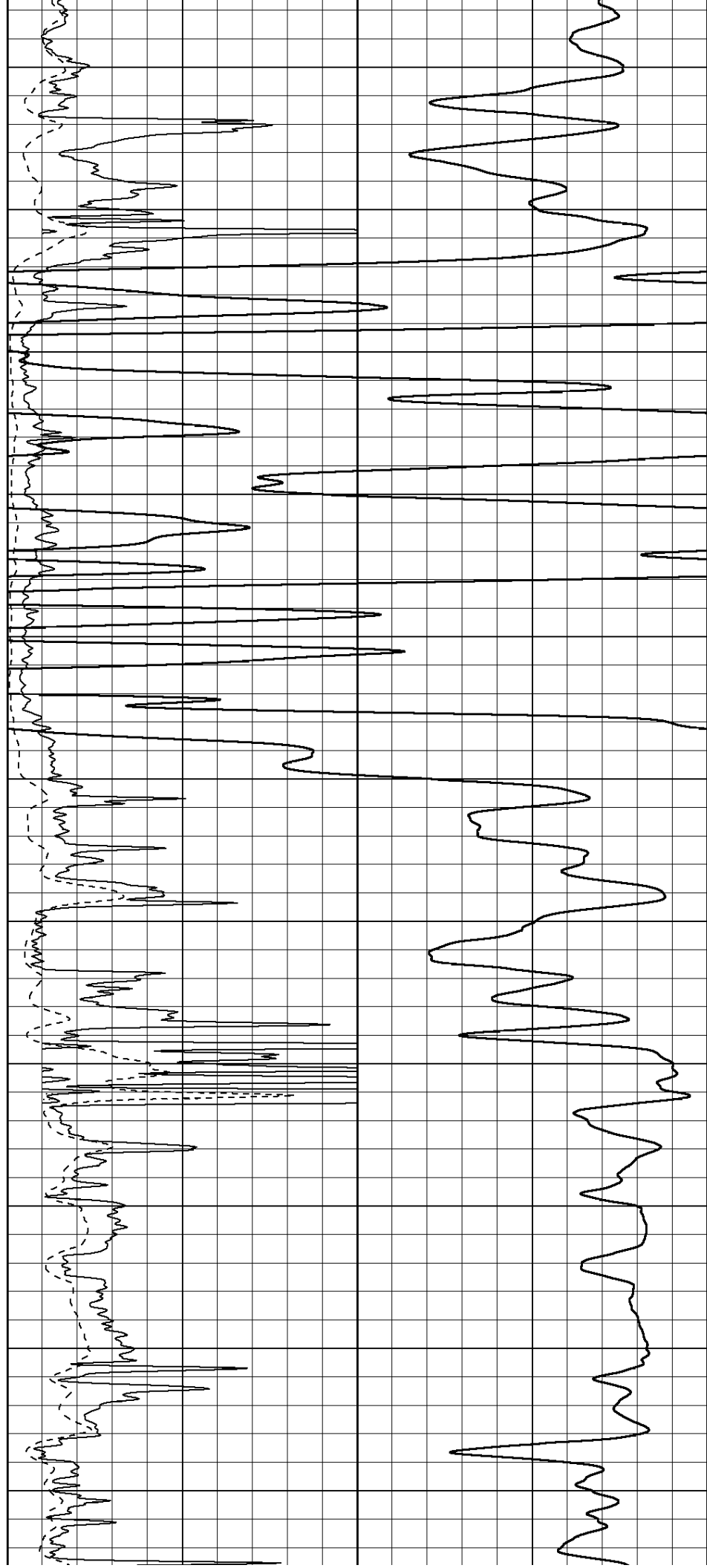
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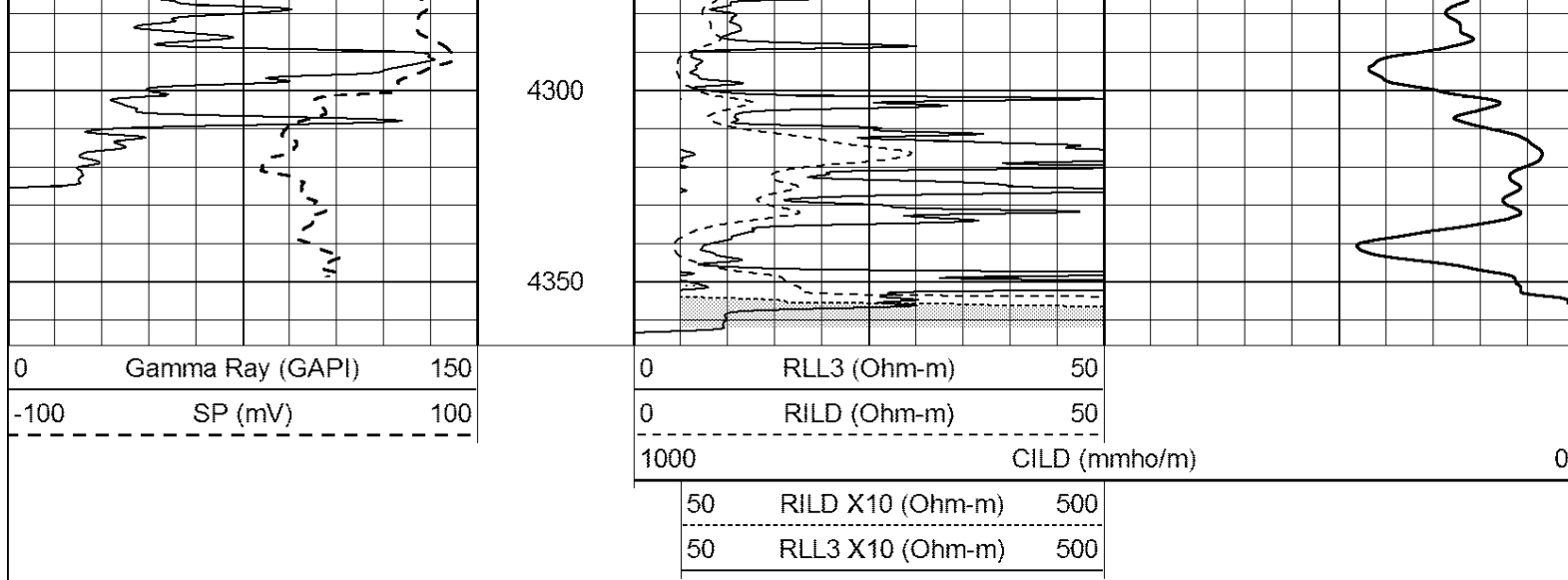
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4150

4200

4250



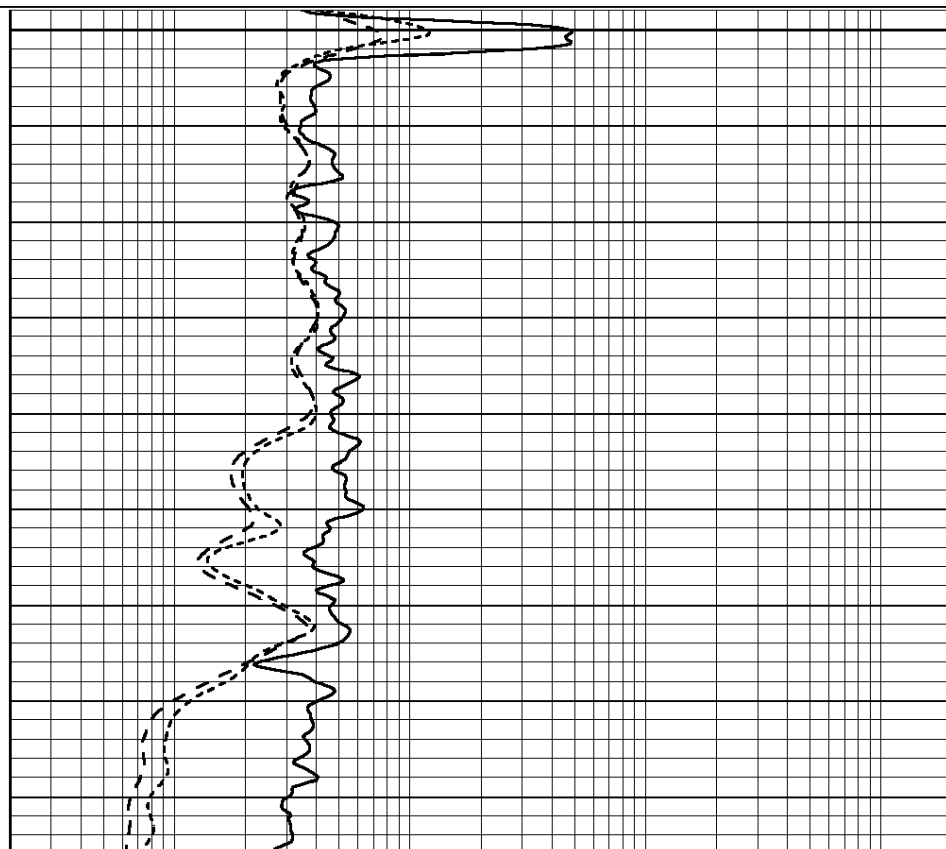
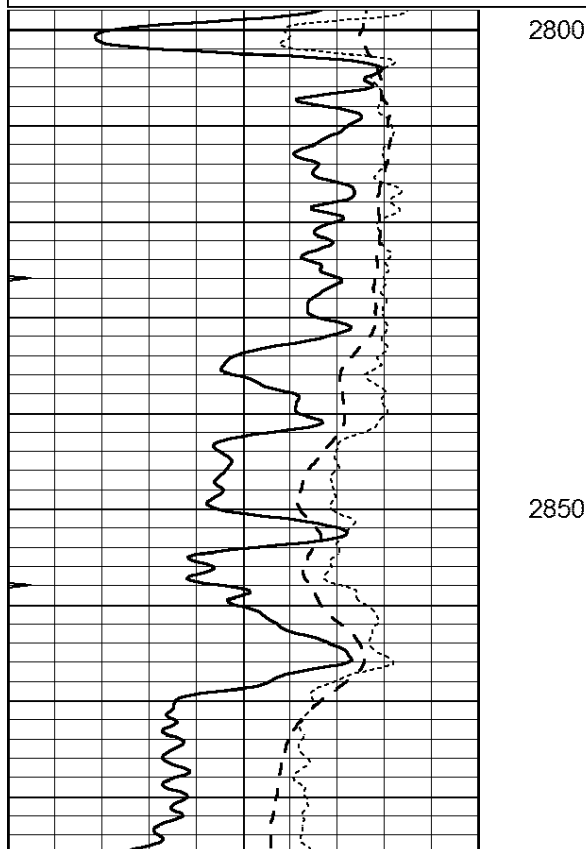


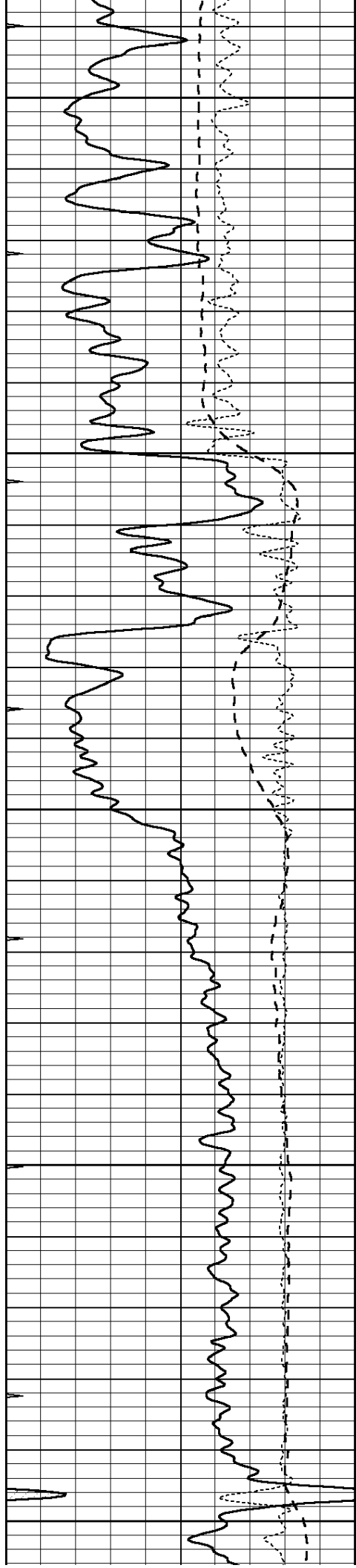
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 007466pe.db
Dataset Pathname: pass4.8
Presentation Format: dil
Dataset Creation: Thu Oct 20 20:35:31 2011
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





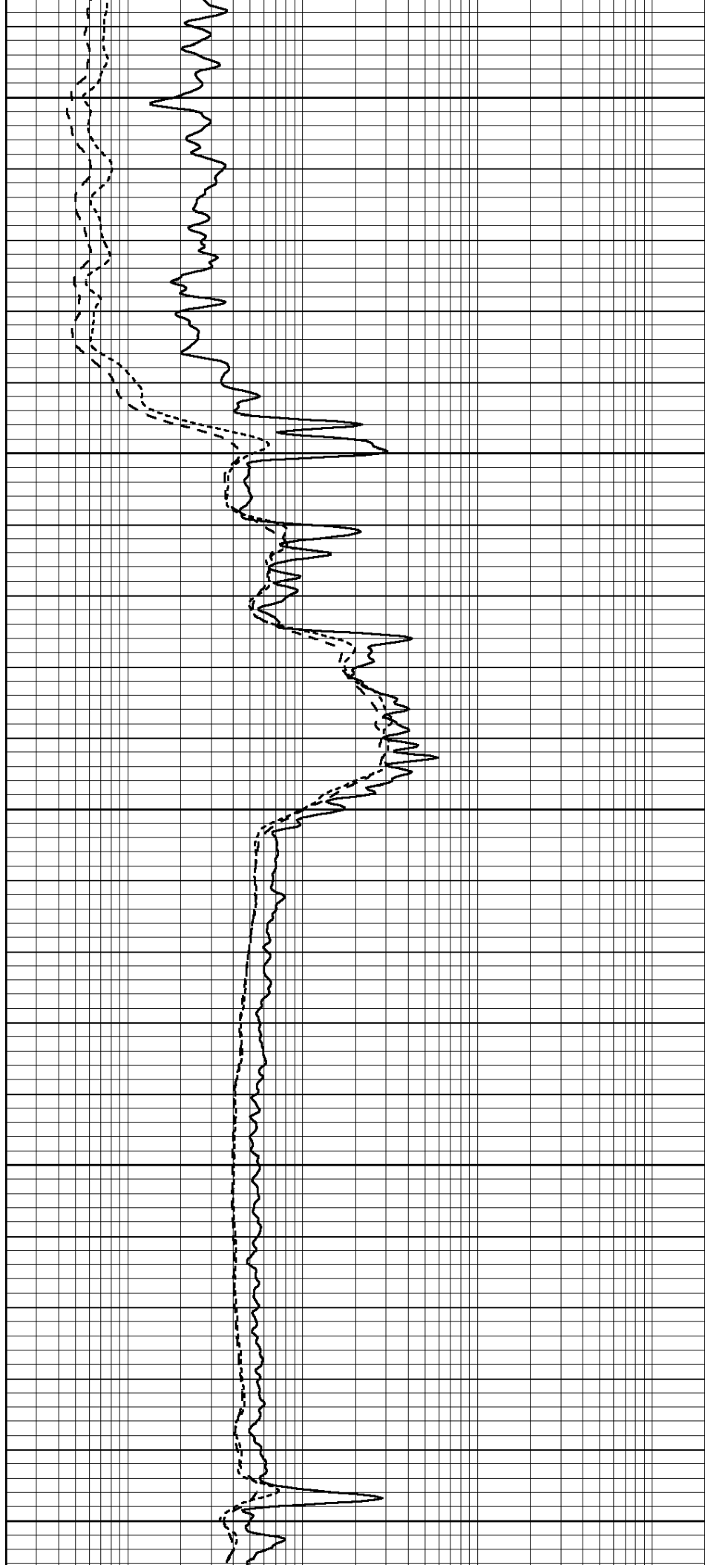
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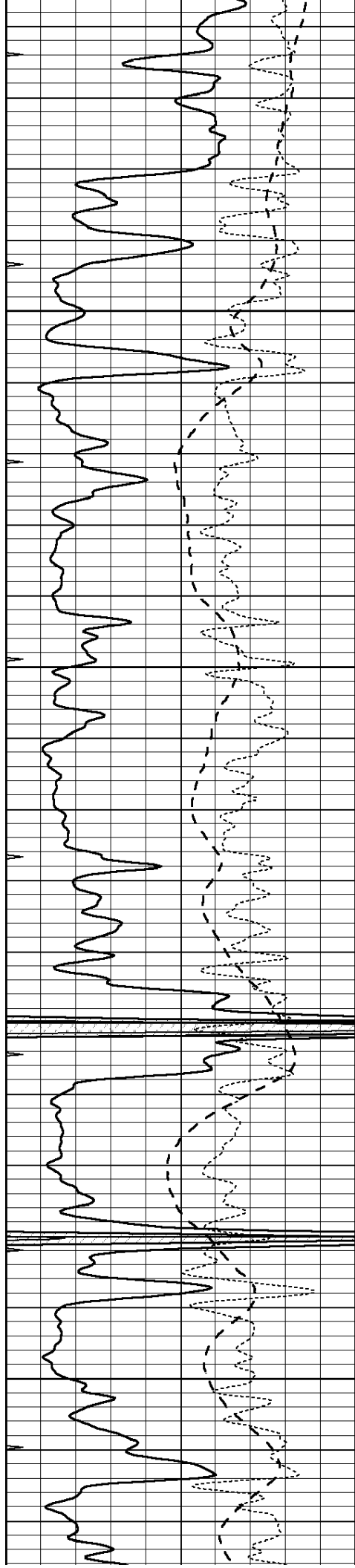
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3000

3050

3100



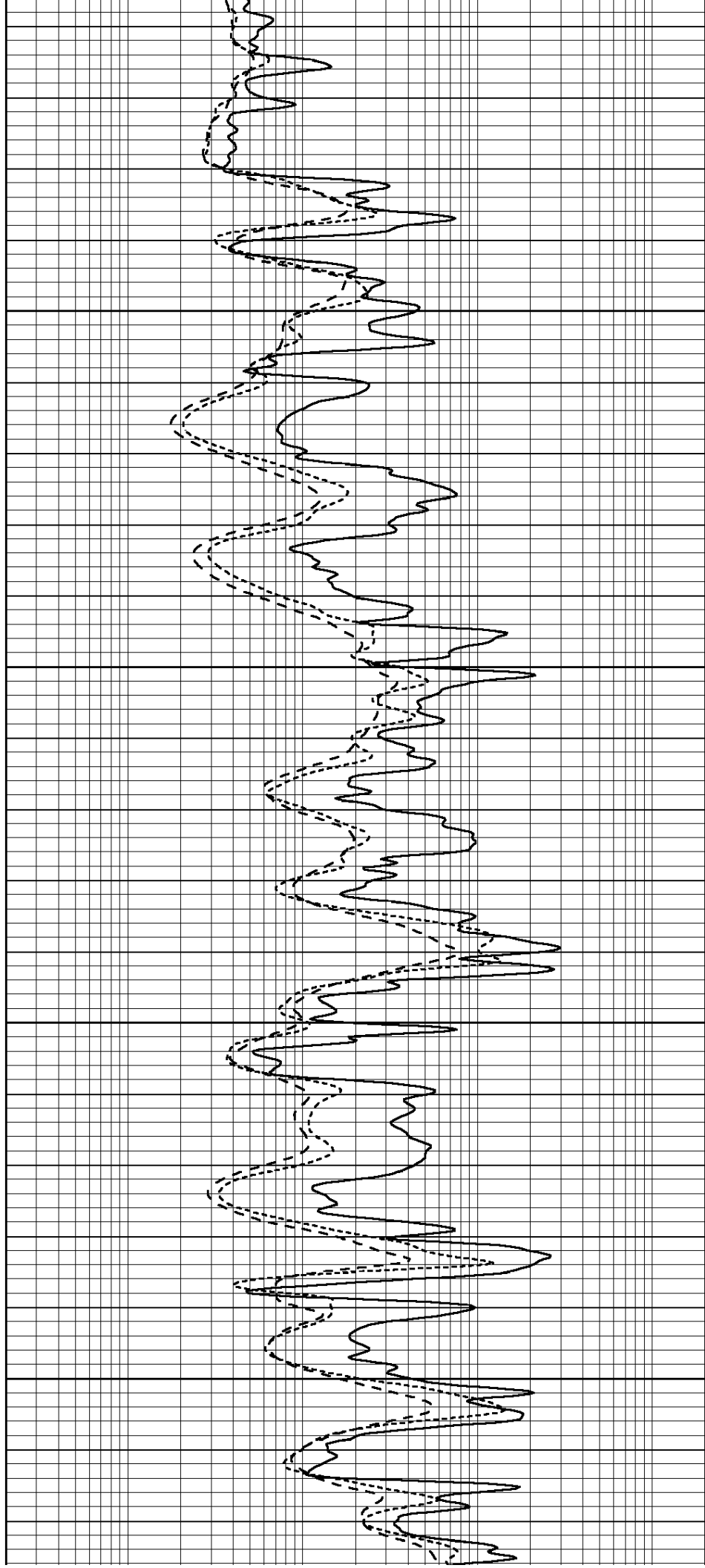


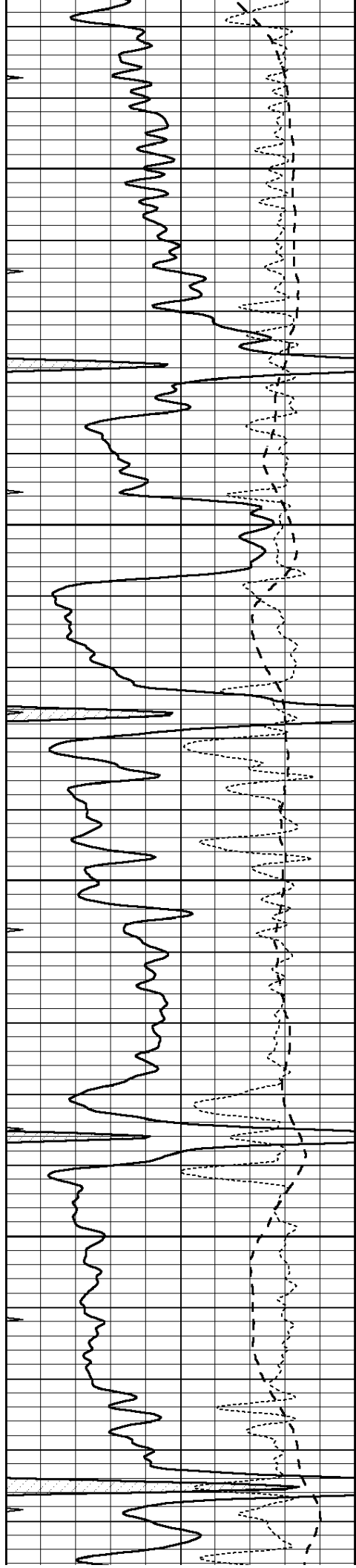
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3200

3250

3300



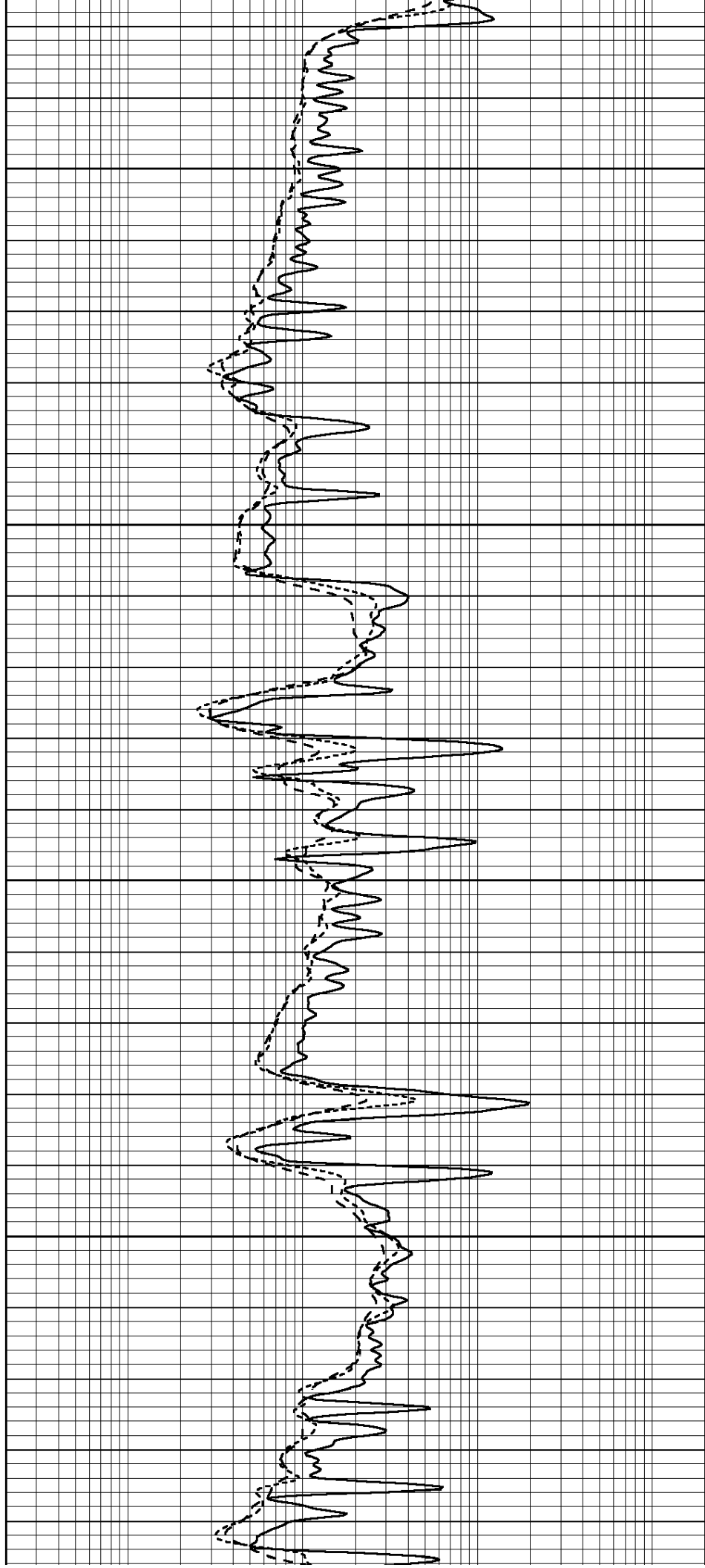


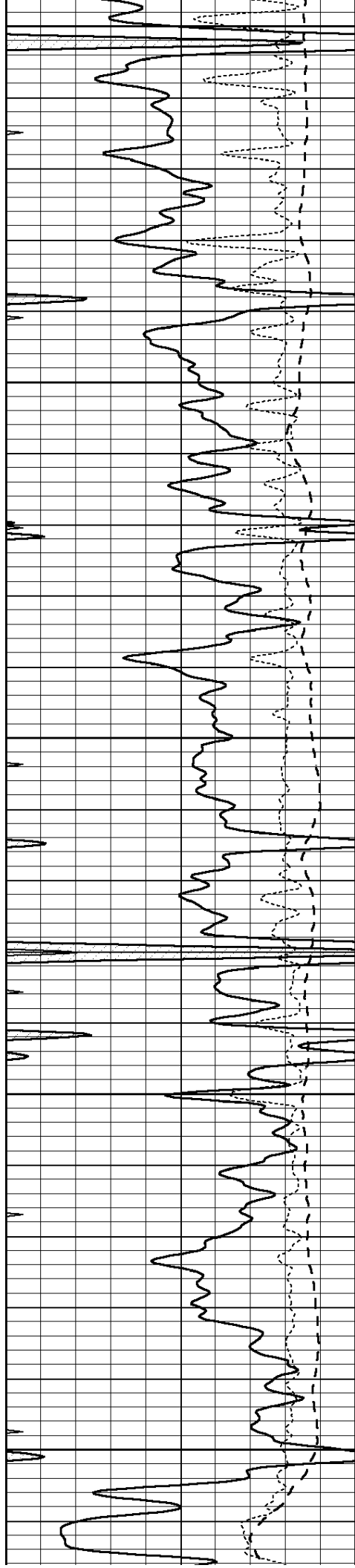
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3450

3500





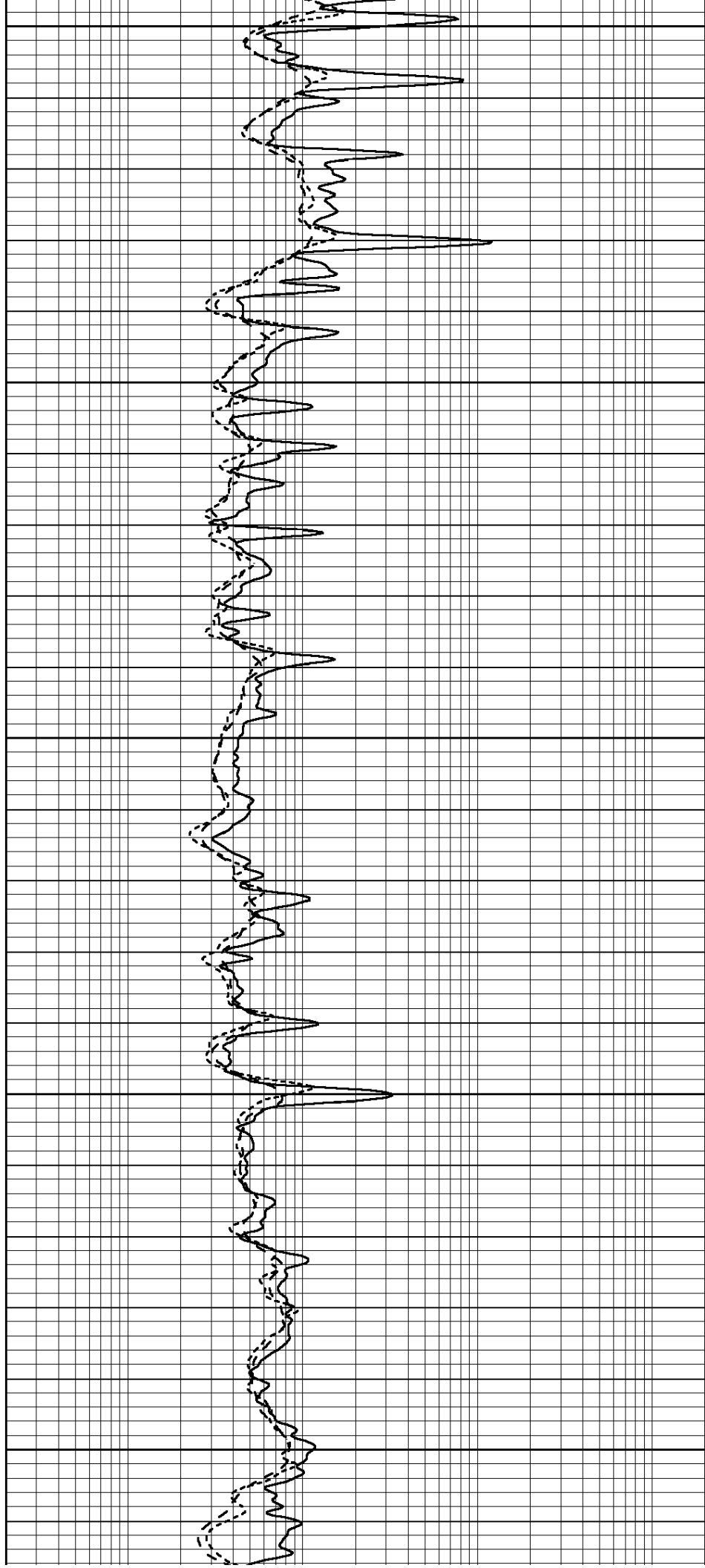
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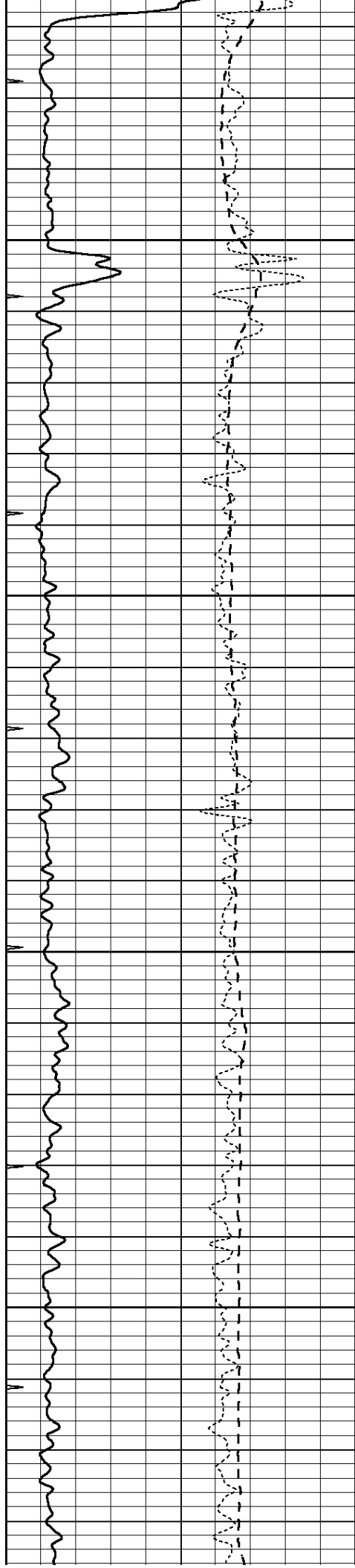
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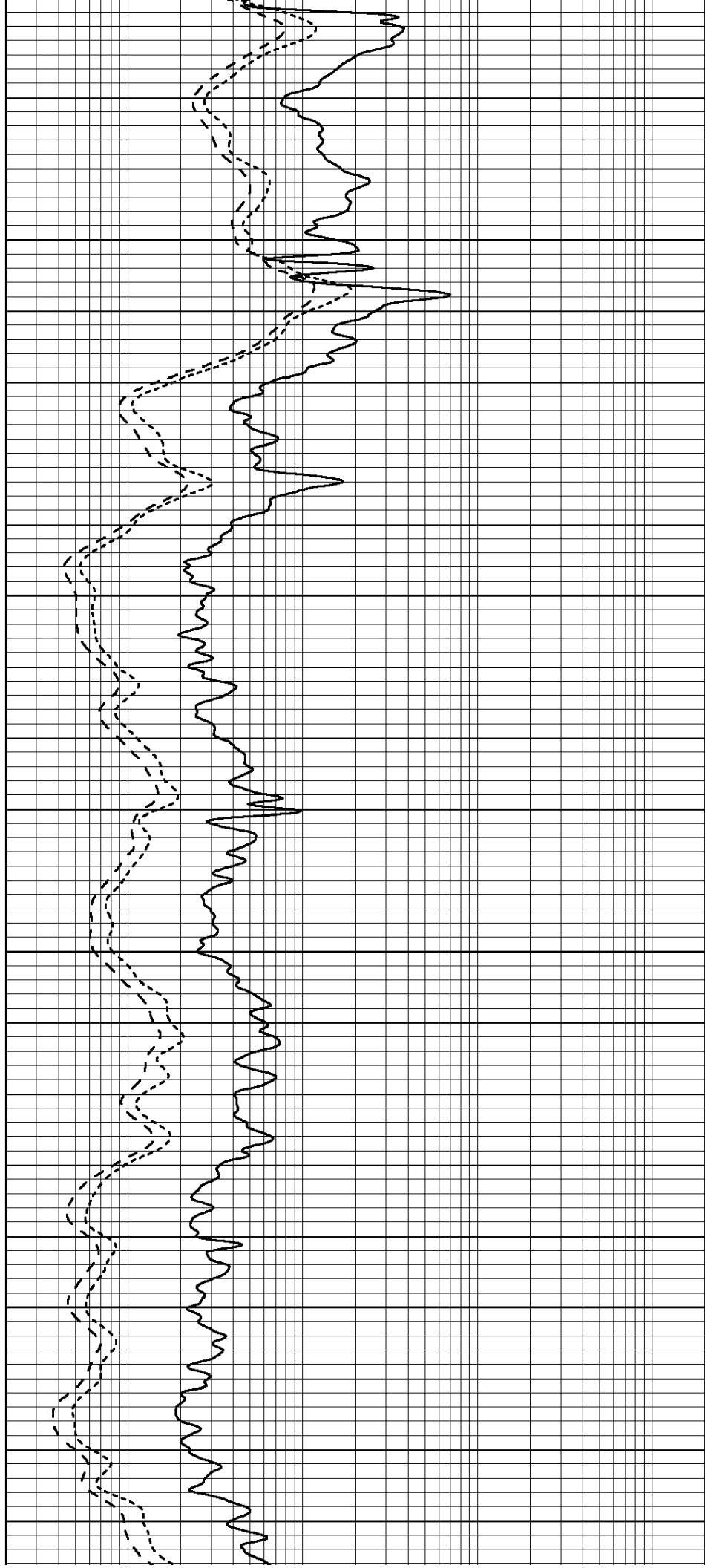


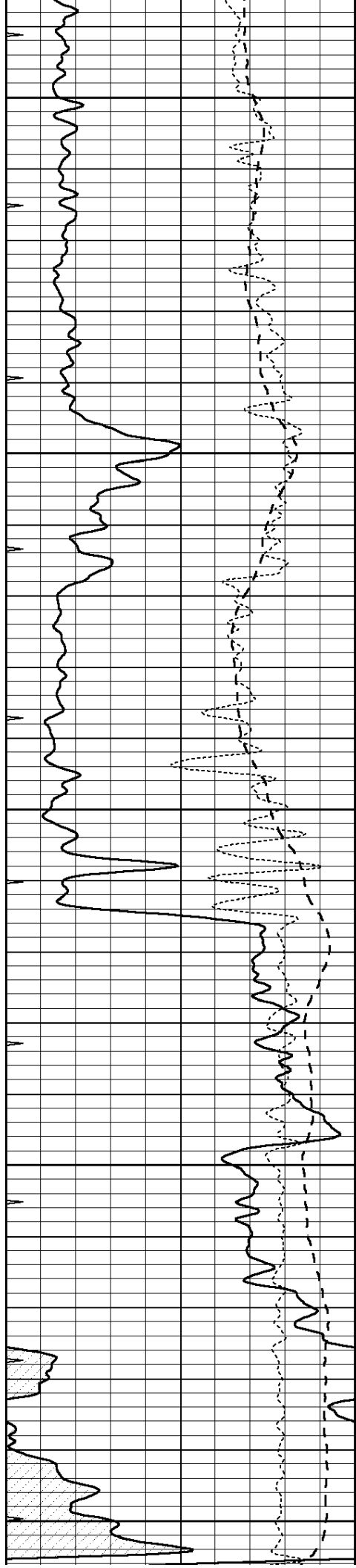
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3900

3950





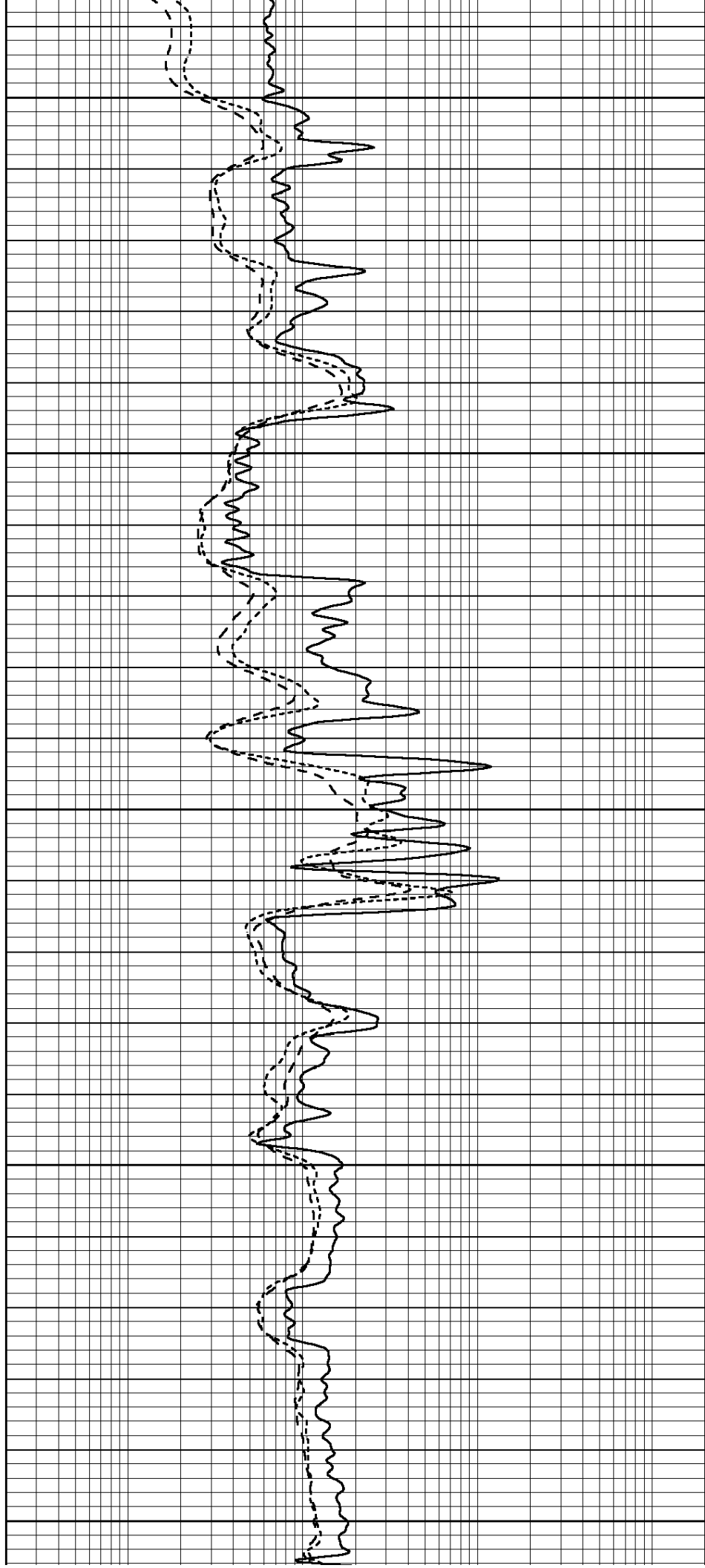
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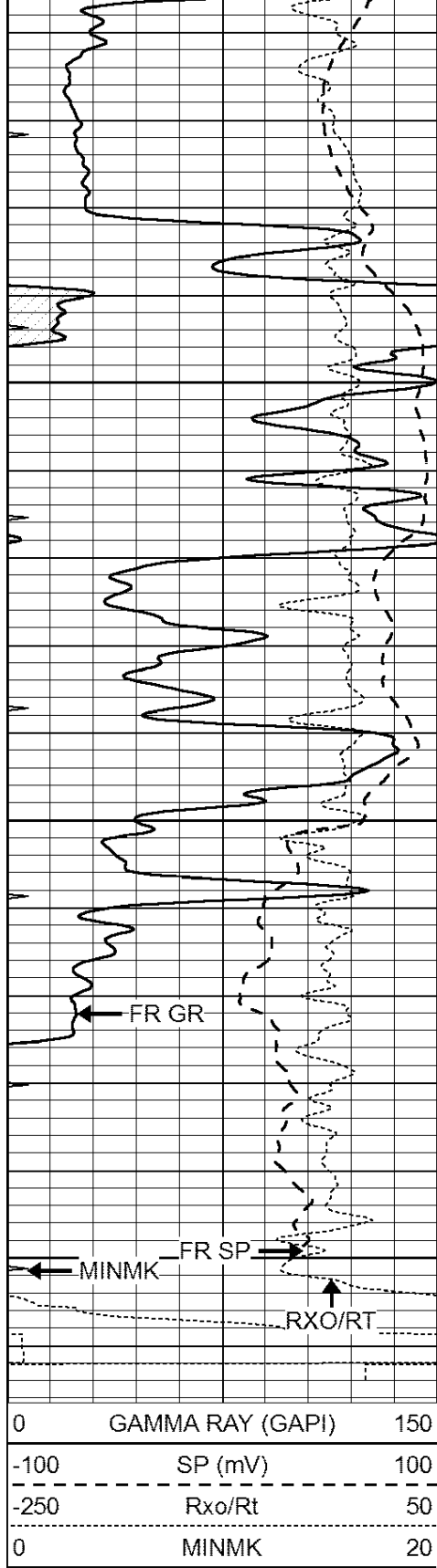
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4100

4150

4200



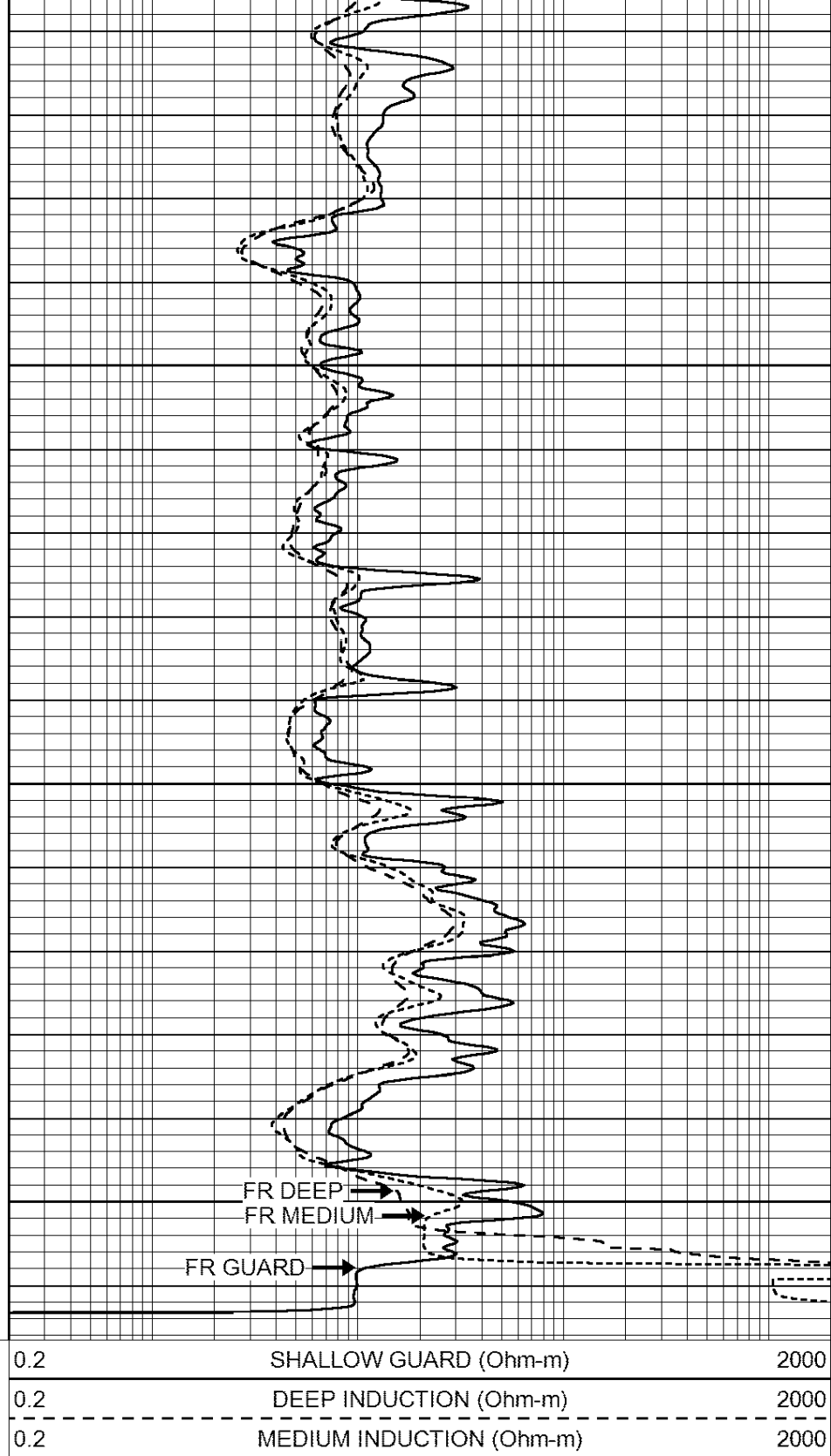


4250

4300

4350

LTD 4360



SUPERIOR
Hays,
Kansas

REPEAT SECTION

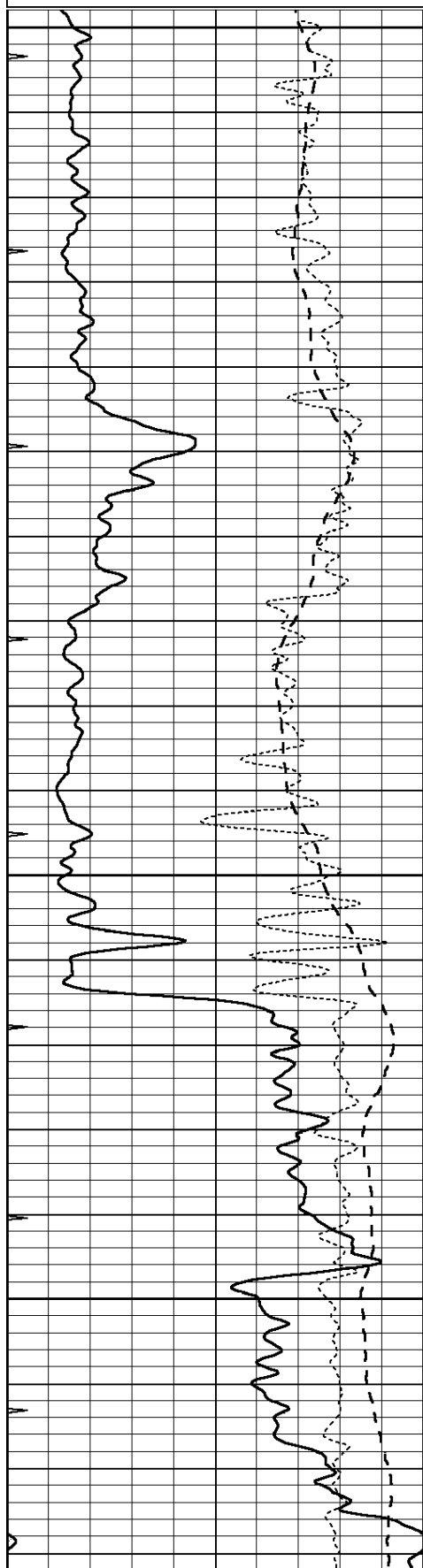
Database File: 007466pe.db

Dataset Pathname: pass3.11

Representation: Default

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

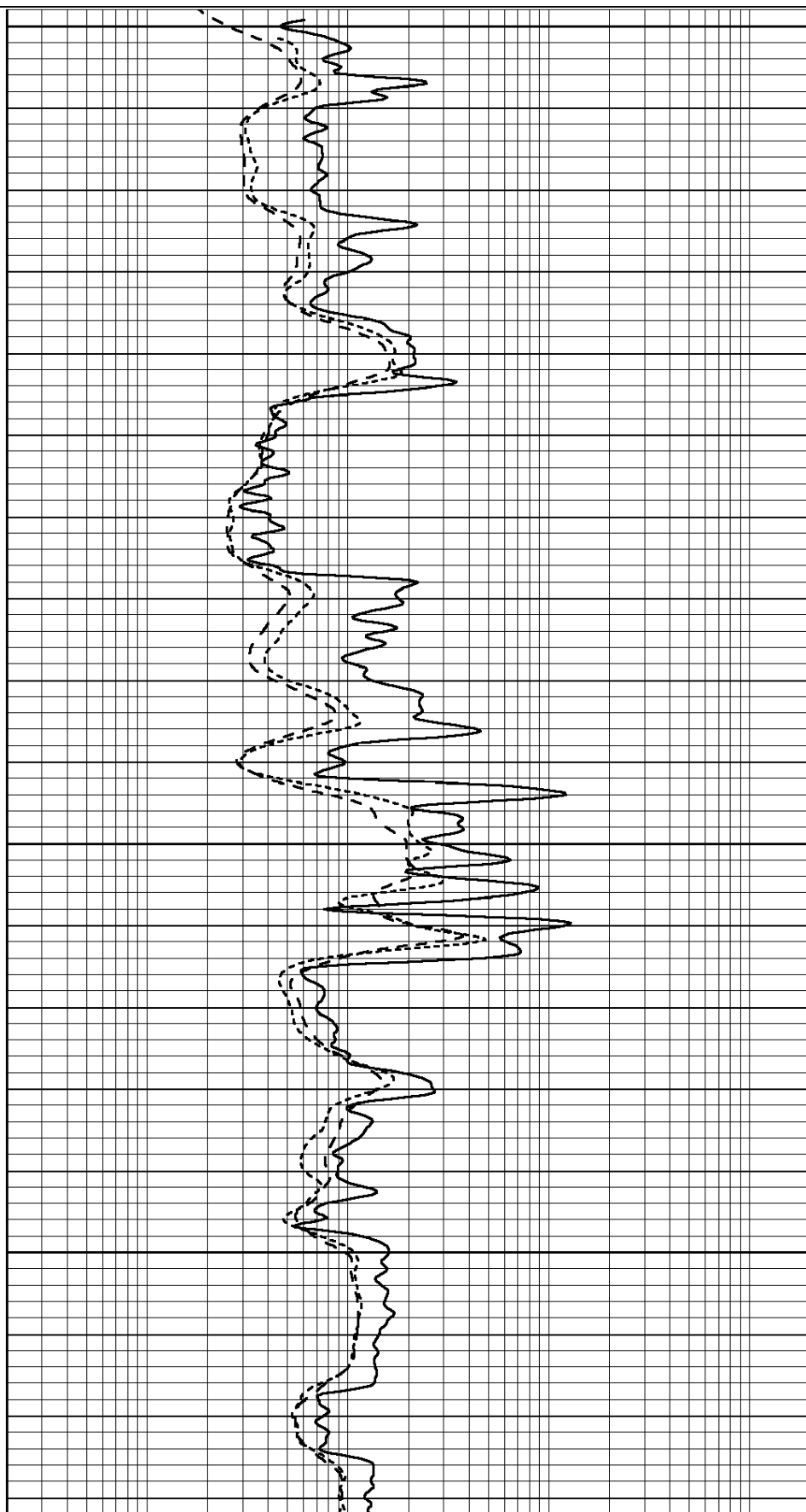


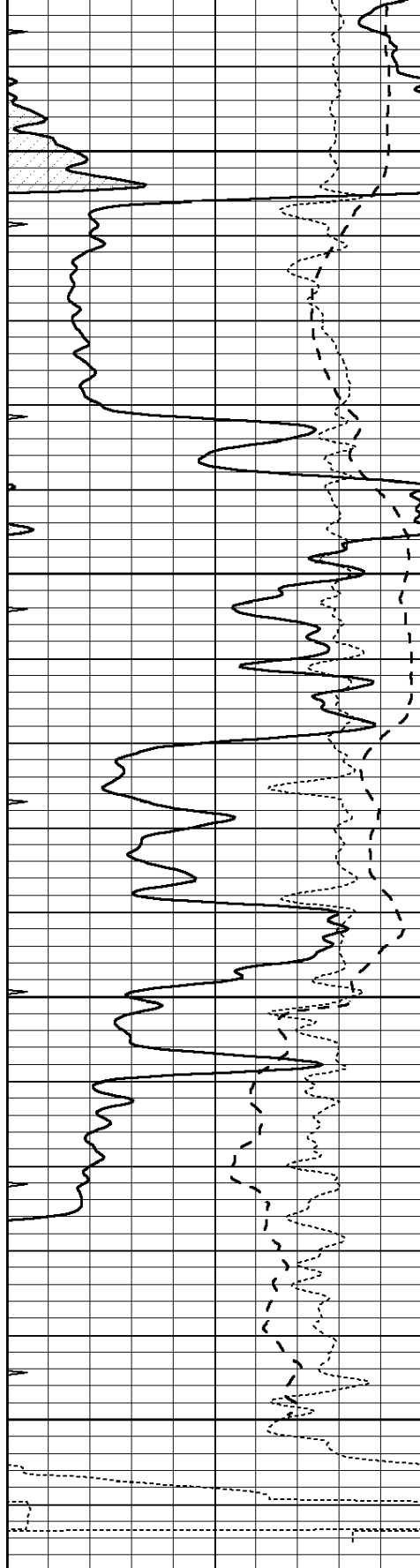
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4050

4100

4150





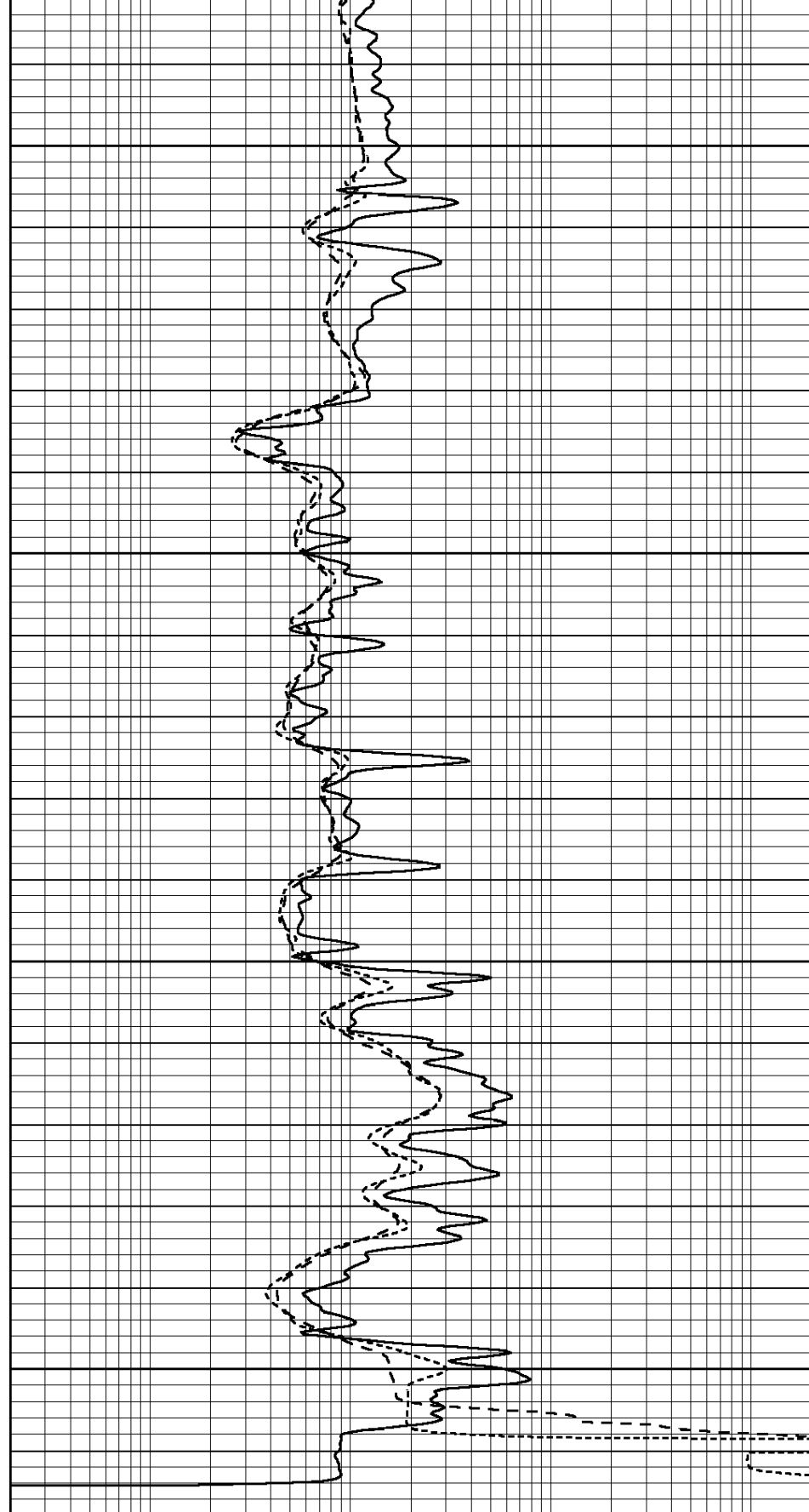
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

4200

4250

4300

4350



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

Database File: 007466pe.db
Dataset Pathname: pass4.8
Dataset Creation: Thu Oct 20 20:35:31 2011

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
Performed: Thu Oct 20 19:07:54 2011

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	3.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-12.000
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: 004N Model: PRB
Performed Tue Sep 08 13:49:55 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1535.8	11161.3	3721.6	12498.8	cps
Window 2	1402.6	9435.7	3219.7	10417.7	cps
Window 3	1077.6	4422.0	1779.2	4753.4	cps
Window 4	337.3	342.8	337.4	343.7	cps
Long Space	0.0	8033.1	1817.0	9015.1	cps
Short Space	1.2	1671.8	1138.1	1813.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.5	Rib Slope	: 1.017	Density/Spine Ratio	: 0.573
Spine Angle	: 75.5	Spine Slope	: 3.865	Spine Intercept	: -19.7

Caliper

	Readings	Reference
Low Ref	2.6	6.8
High Ref	4.8	15.0
Gain:	3.9	Offset: -3.4

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 Oct 20 20:00:13 2011

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.2300	GAPI/cps
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