



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company		ATLAS OPERATING, LLC.	
Well		CYPRESS #3	
Field		GOETZ	
County		KINGMAN	
State		KANSAS	
Location:		APL # : 15-095-22247-0000 2600' FSL & 330' FEL	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 10' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 30 TWP 29S RGE 9W		Elevation K.B. 1669 D.F. 1667 G.L. 1659	
Date	3/2/12		
Run Number	ONE		
Depth Driller	4655		
Depth Logger	4658		
Bottom Logged Interval	4656		
Top Log Interval	00		
Casing Driller	8 5/8" @ 267		
Casing Logger	266		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.5/47		
pH / Fluid Loss	9.0/12.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.72 @ 70F		
Rmf @ Meas. Temp	.54 @ 70F		
Rmc @ Meas. Temp	.86 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.40 @ 123F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	PAT DEENIHAN		

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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 (785) 628-6395
DIRECTIONS
CUNNINGHAM, KS. - 8 E. TO ZENDA BLKTOP - 10 S. TO RD 110 - 3 W. TO RD 120
1/2 N. - W. INTO



SUPERIOR
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MAIN SECTION

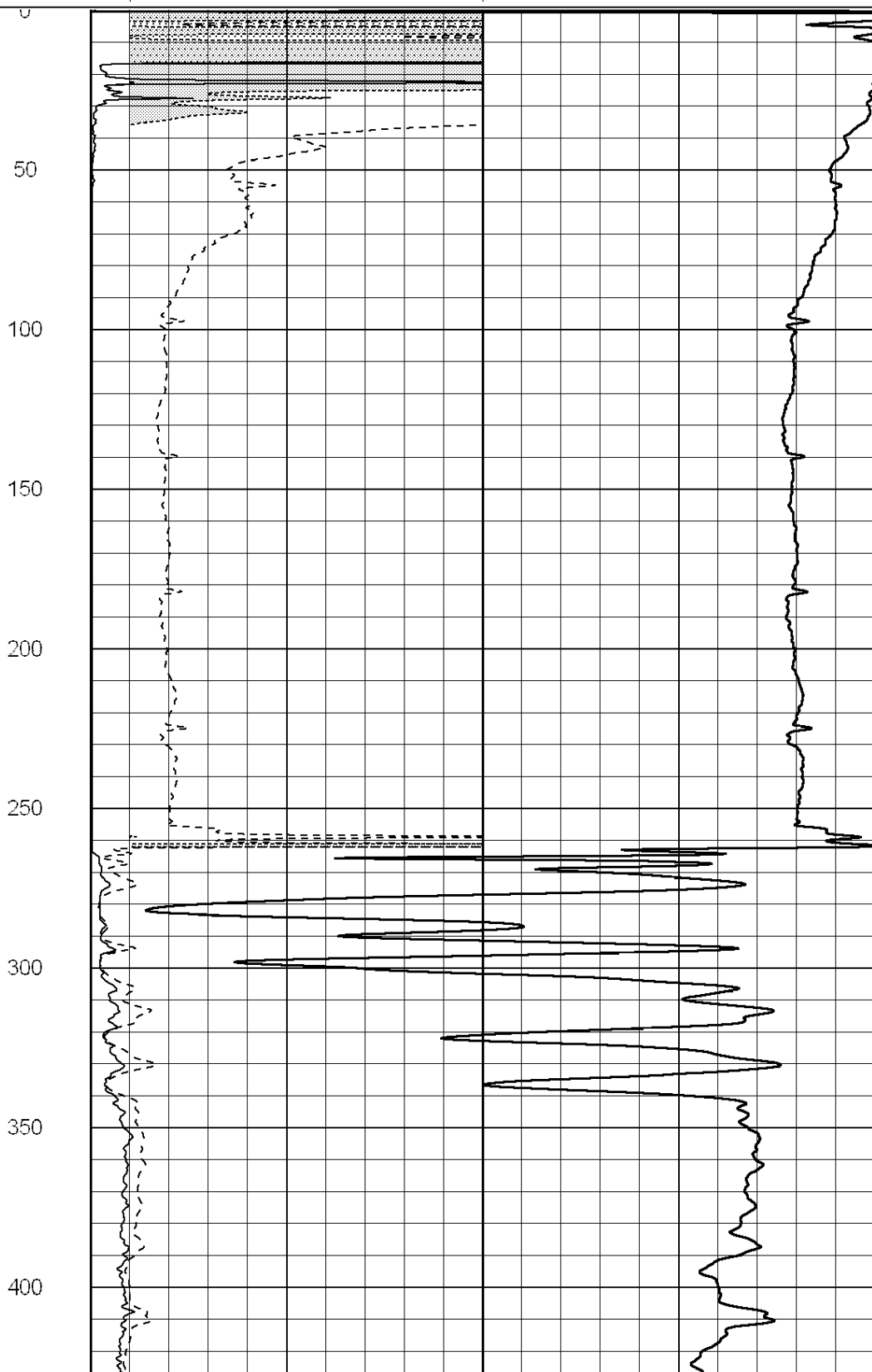
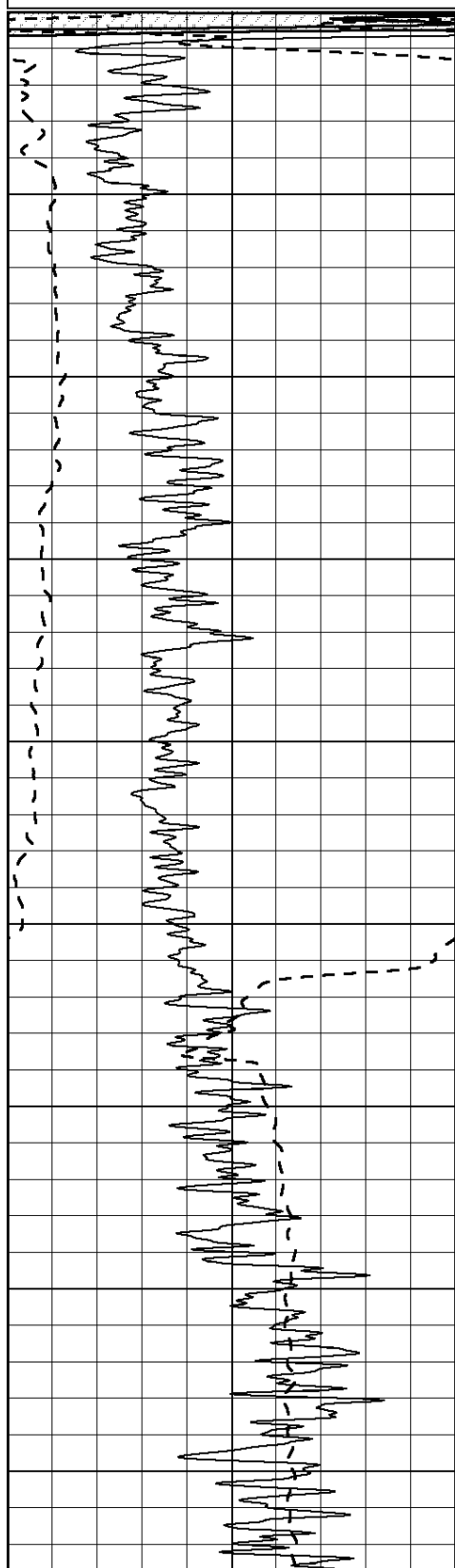
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 Dataset Pathname: pass3.2
 Presentation Format: _dil2
 Dataset Creation: Fri Mar 02 10:47:25 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

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

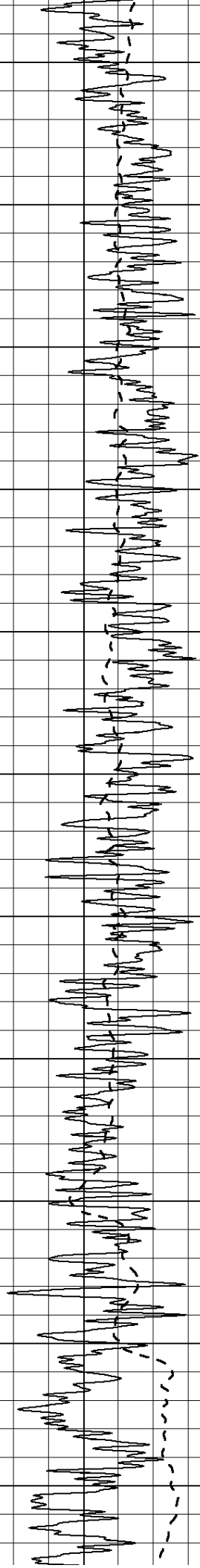
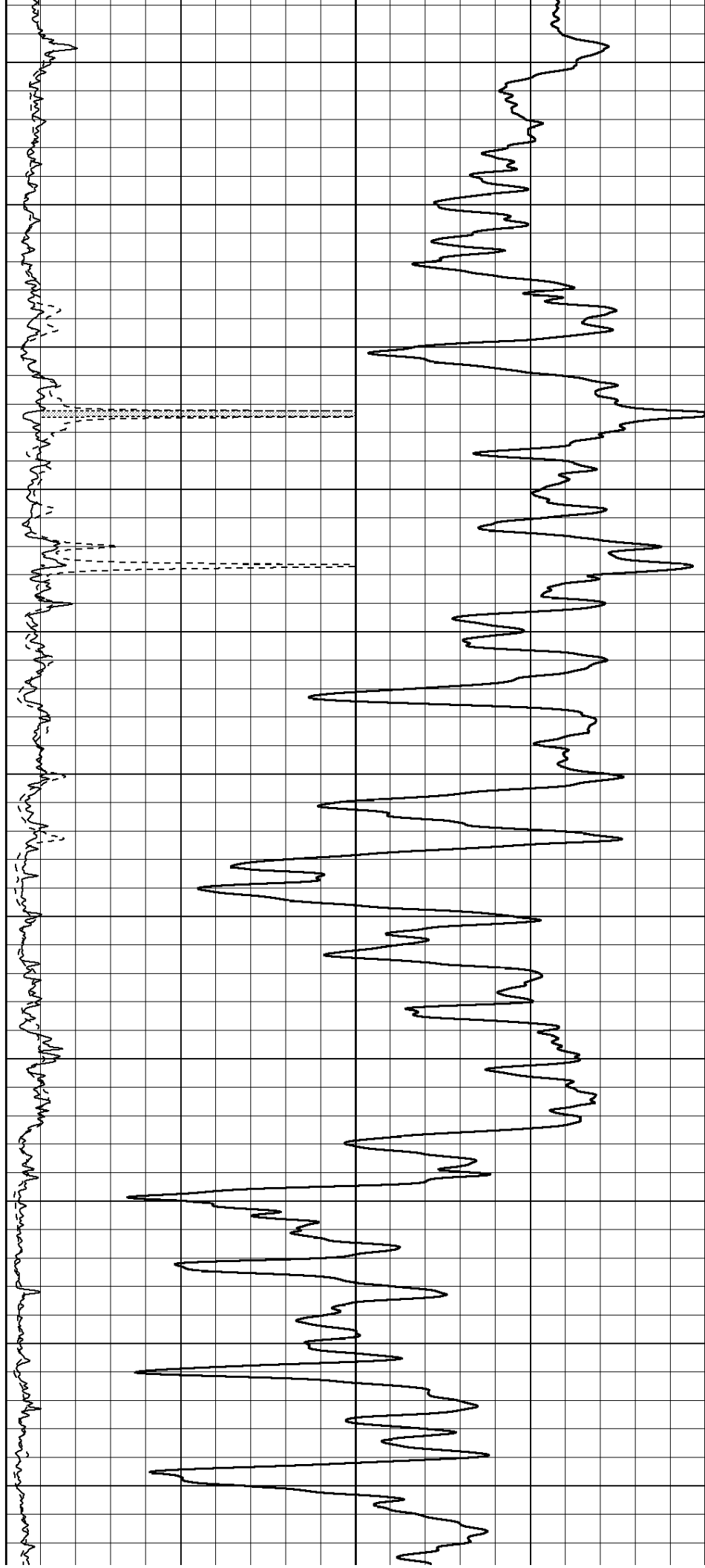
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0	Deep Induction (Ohm-m)	50

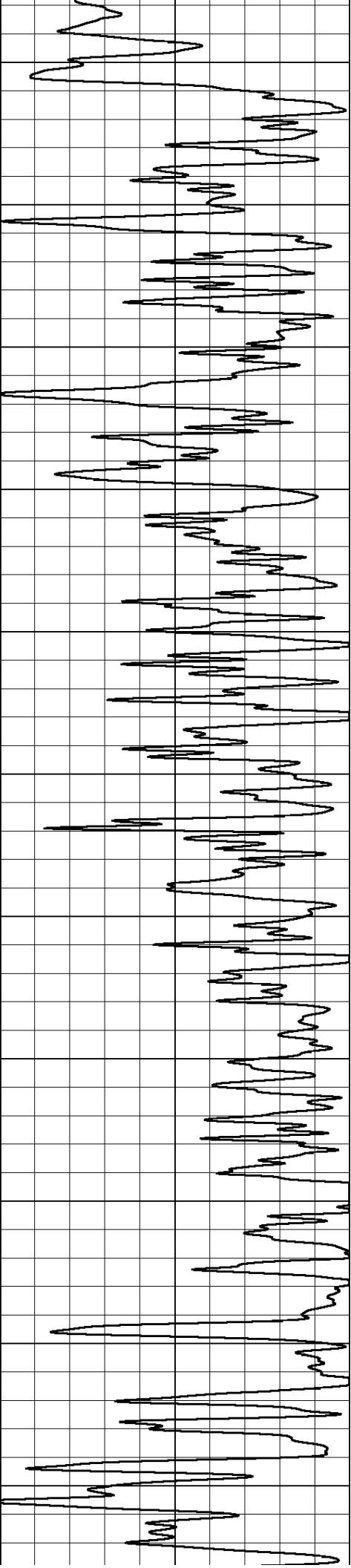
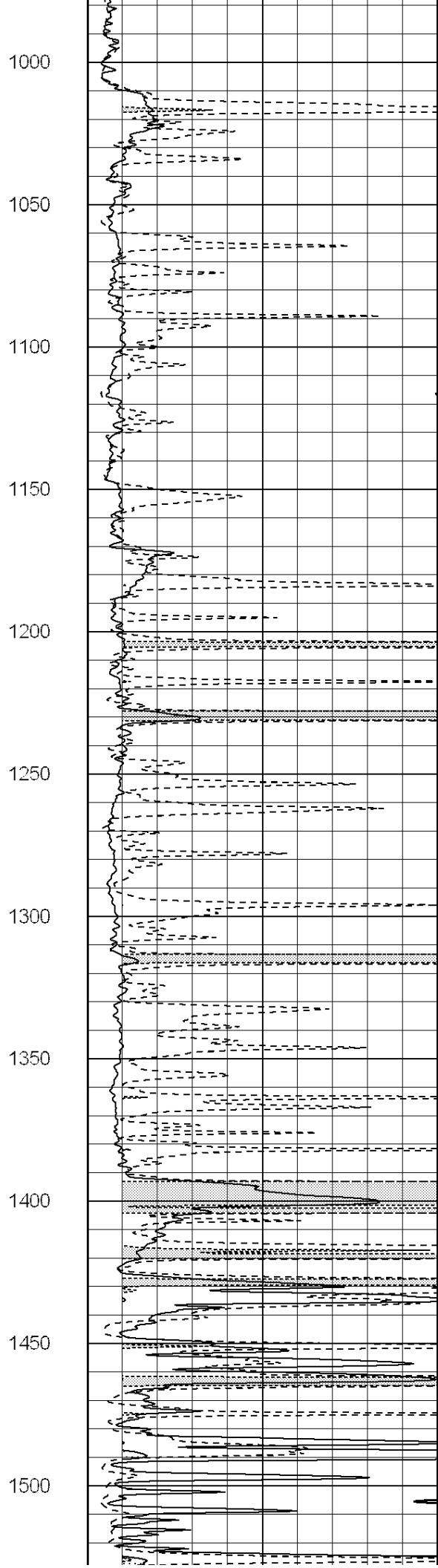
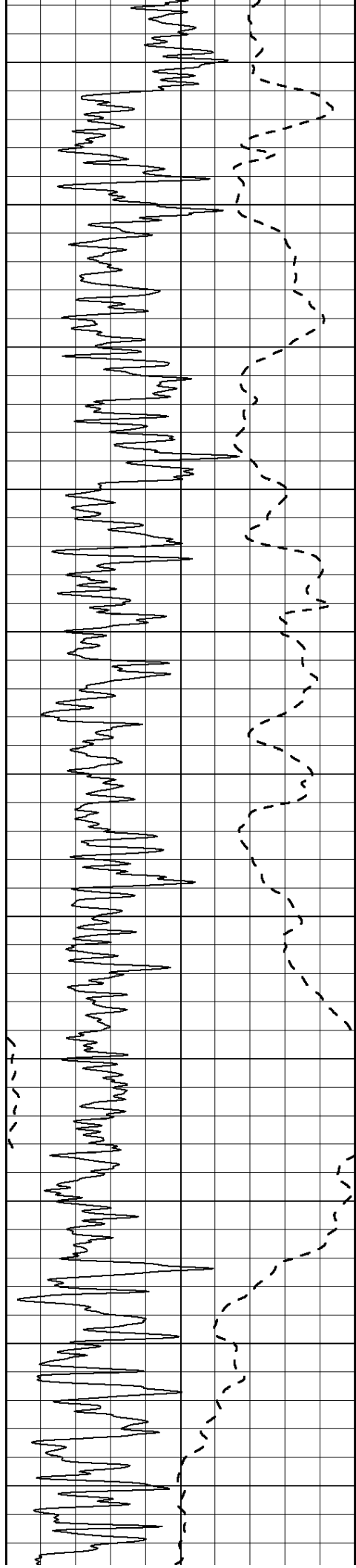
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



450
500
550
600
650
700
750
800
850
900
950





1550

1600

1650

1700

1750

1800

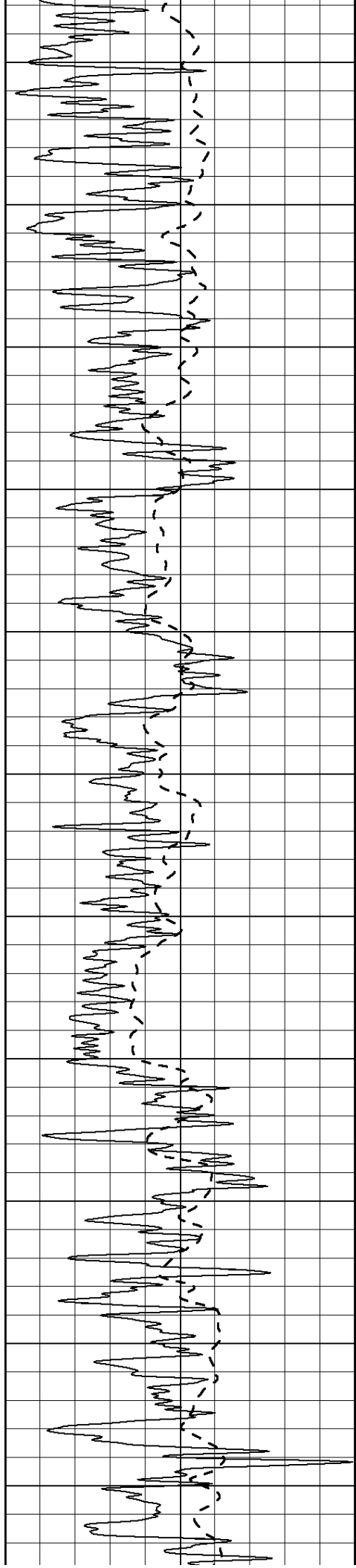
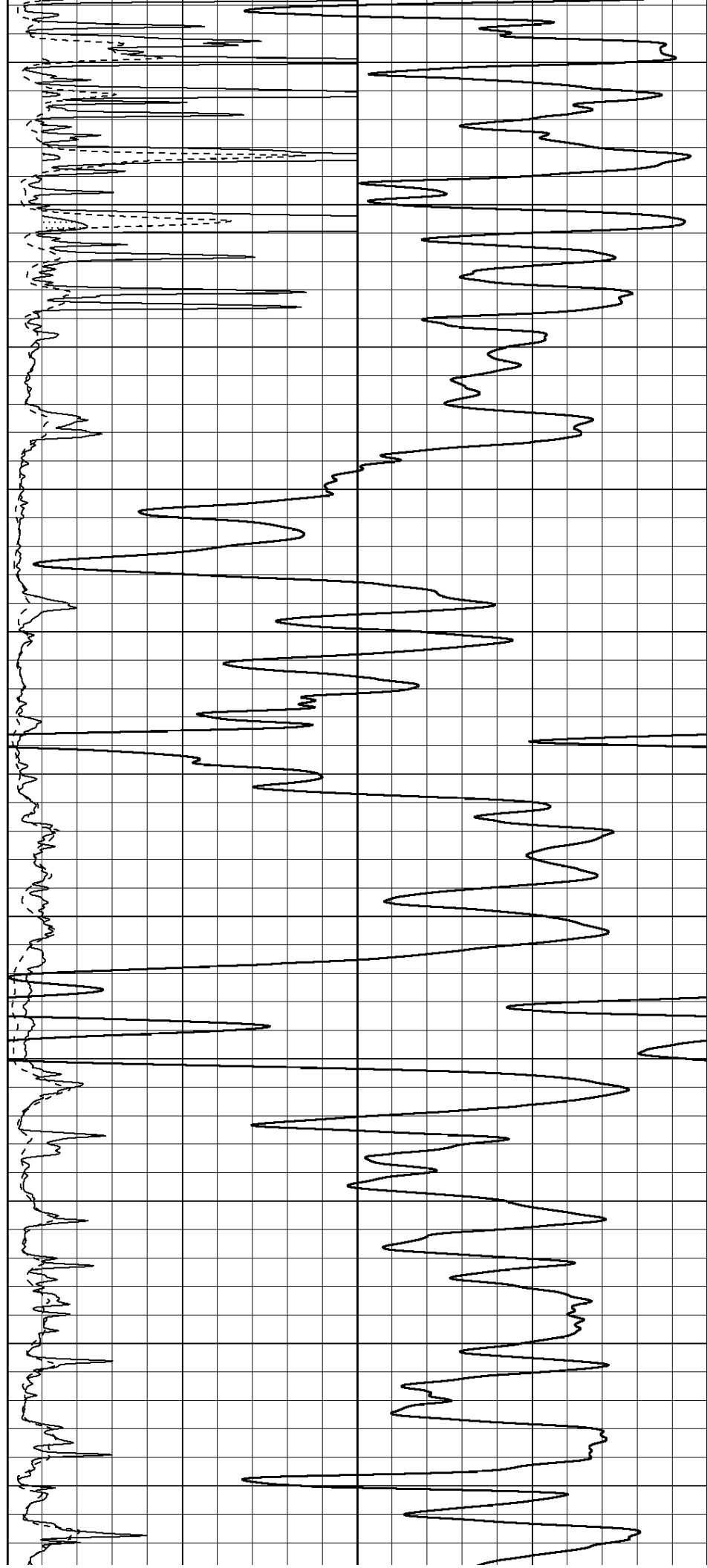
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1900

1950

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2050



2100

2150

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2350

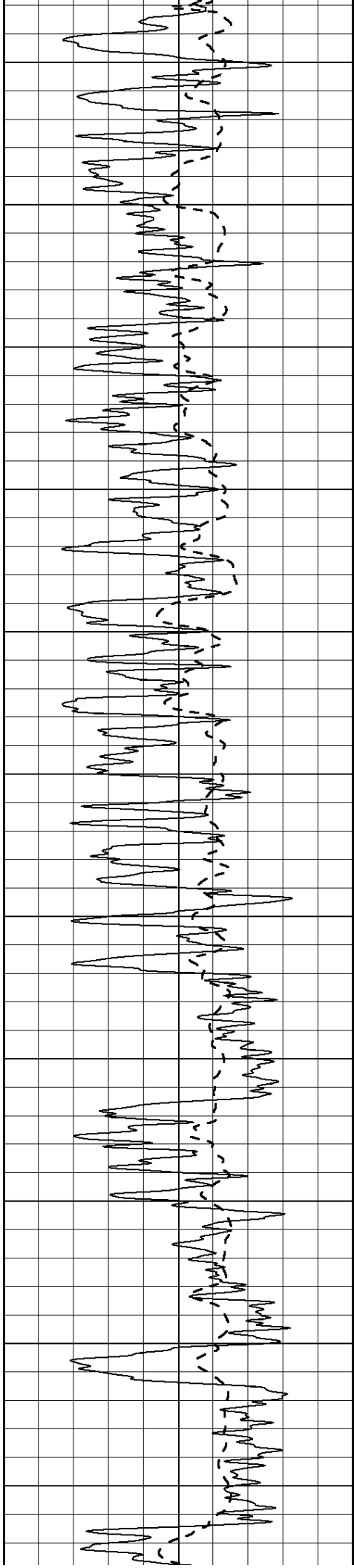
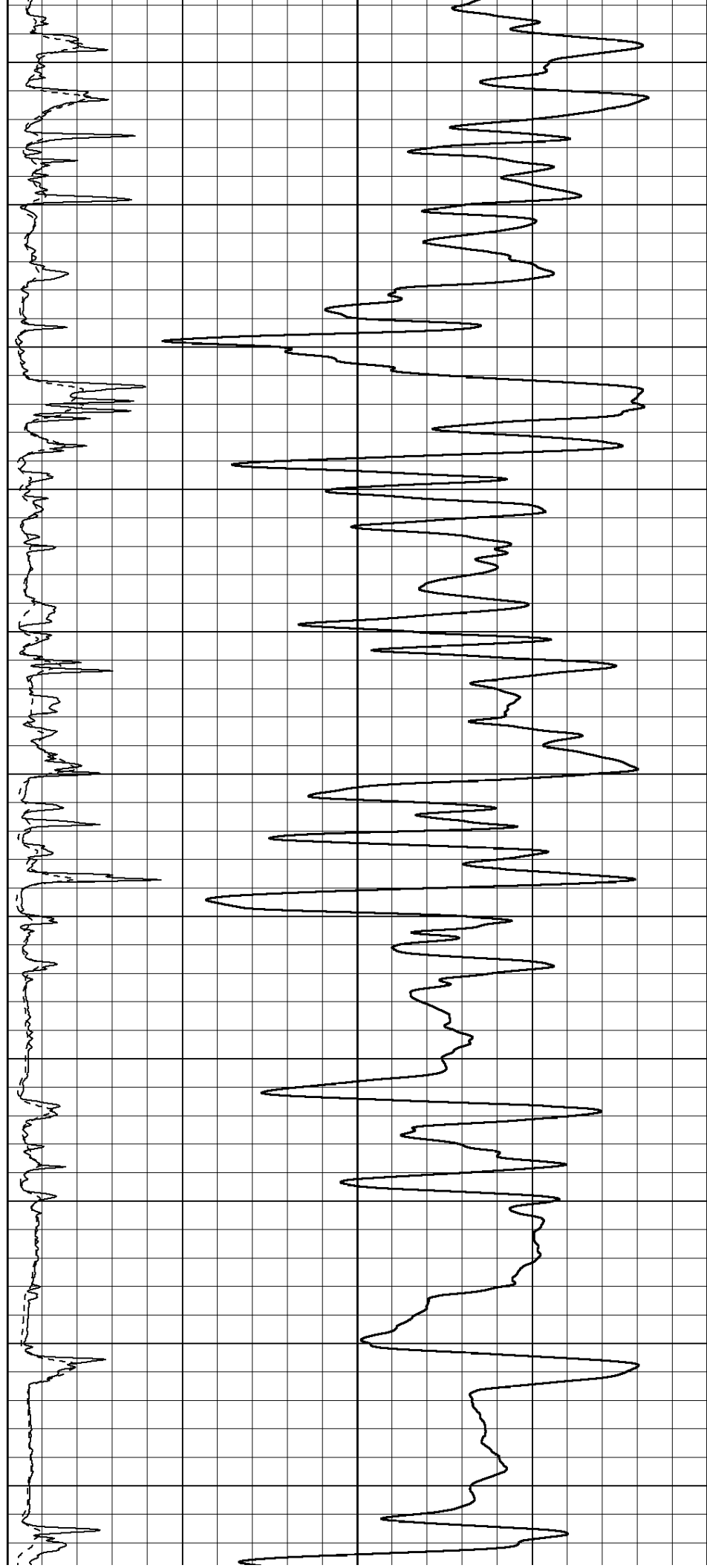
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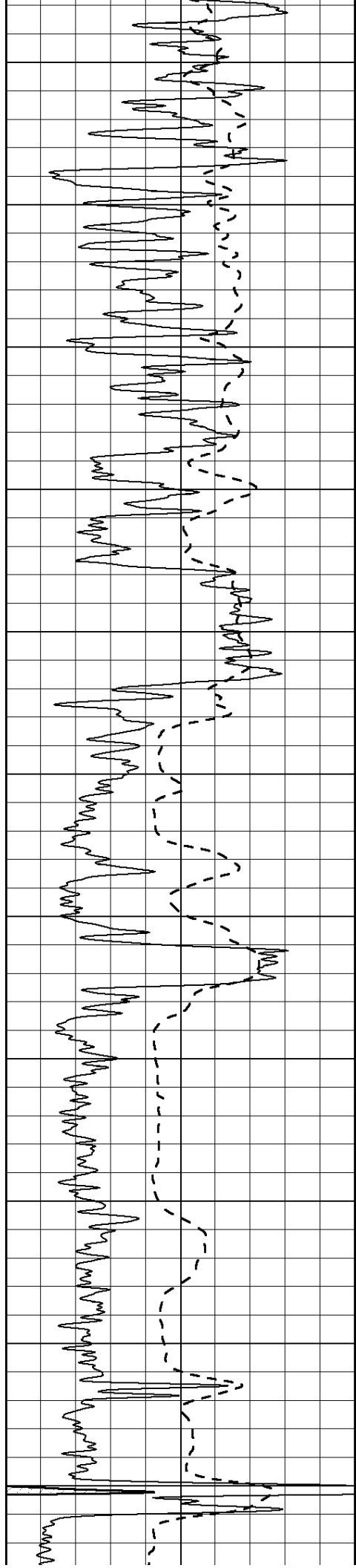
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2550

2600





2650

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2800

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2900

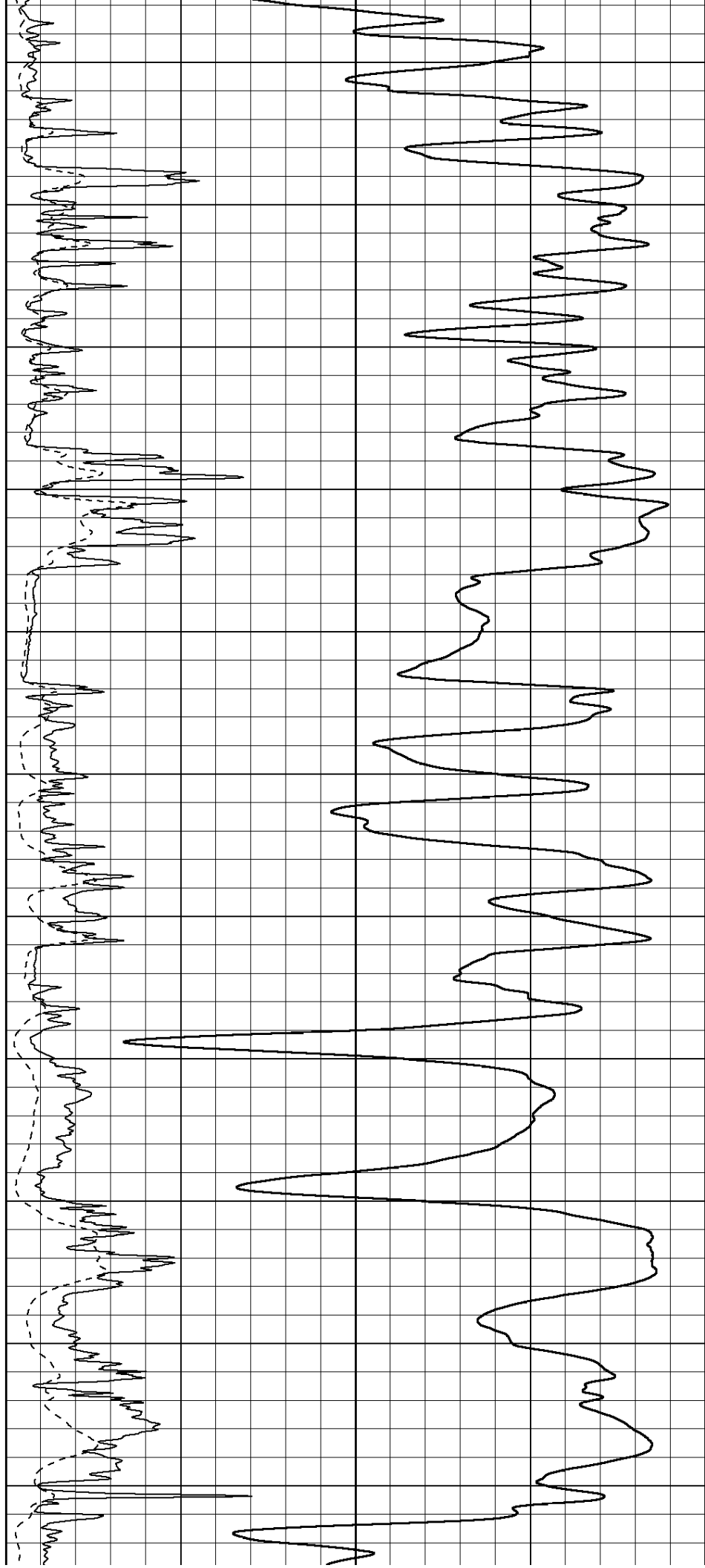
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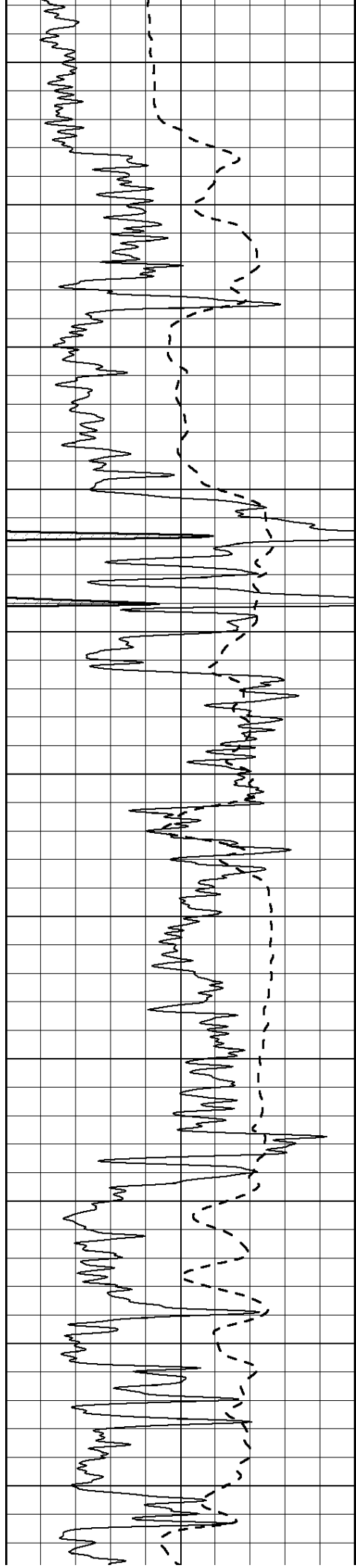
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3100

3150





3200

3250

3300

3350

3400

3450

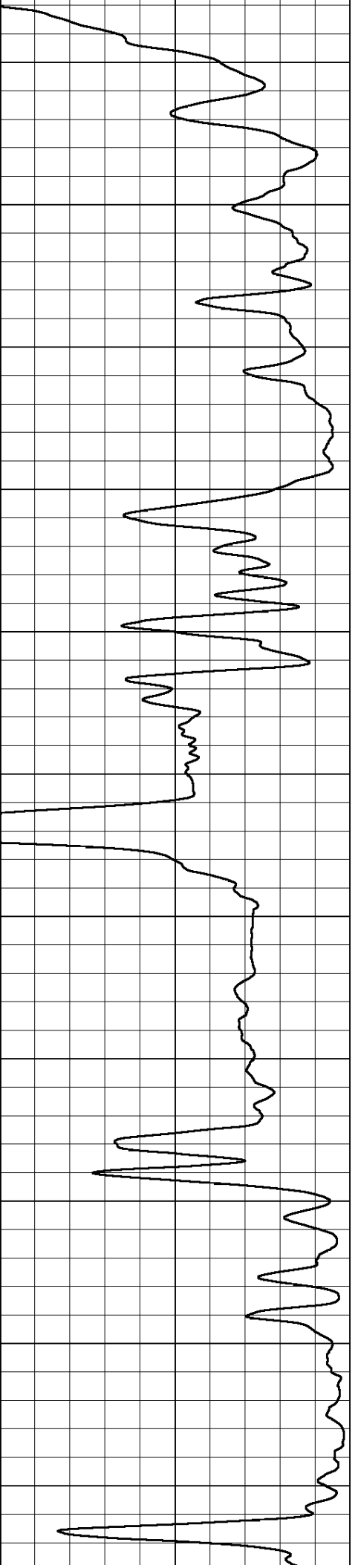
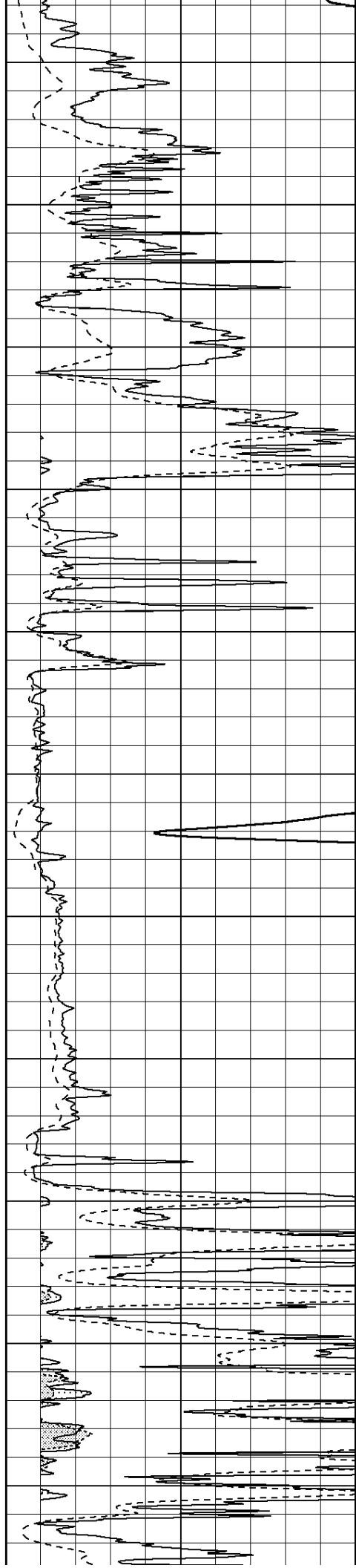
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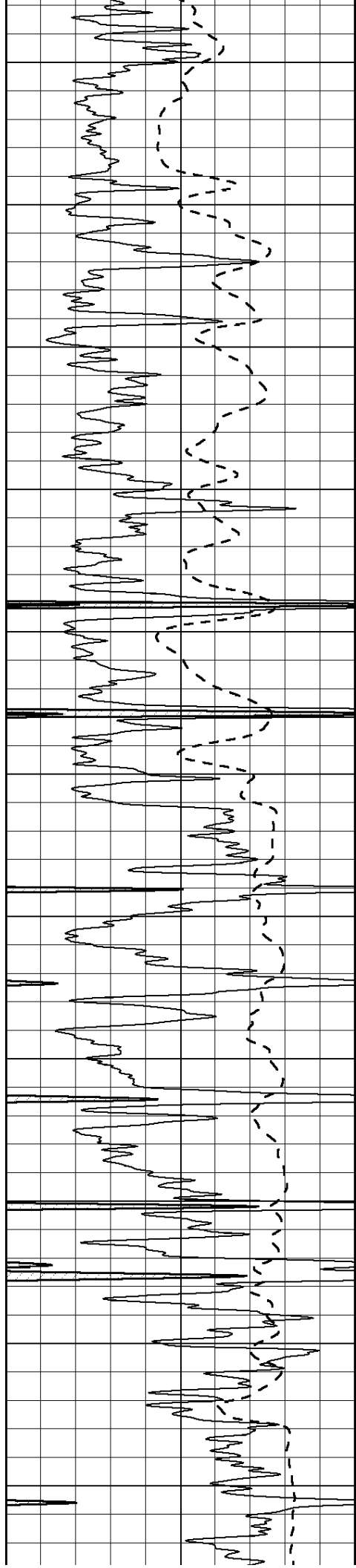
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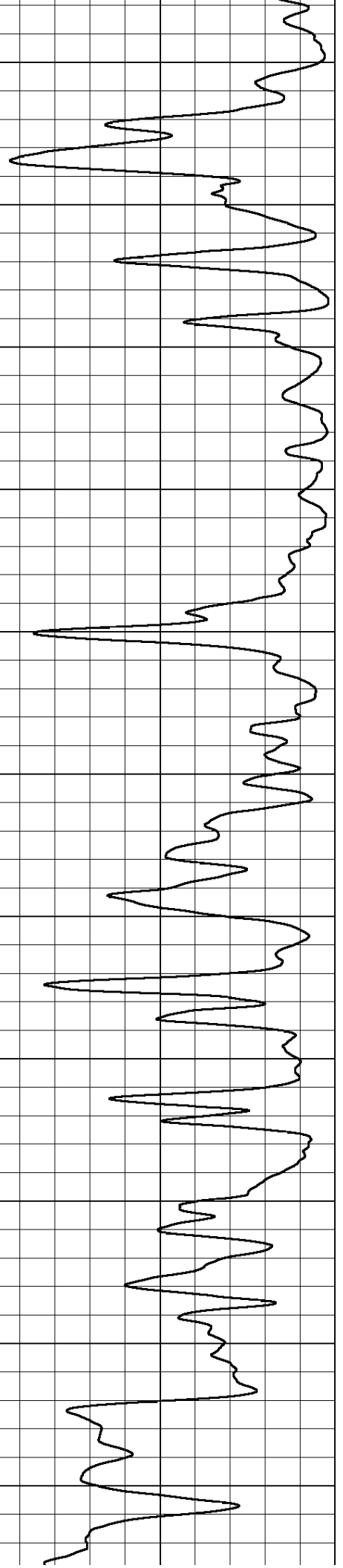
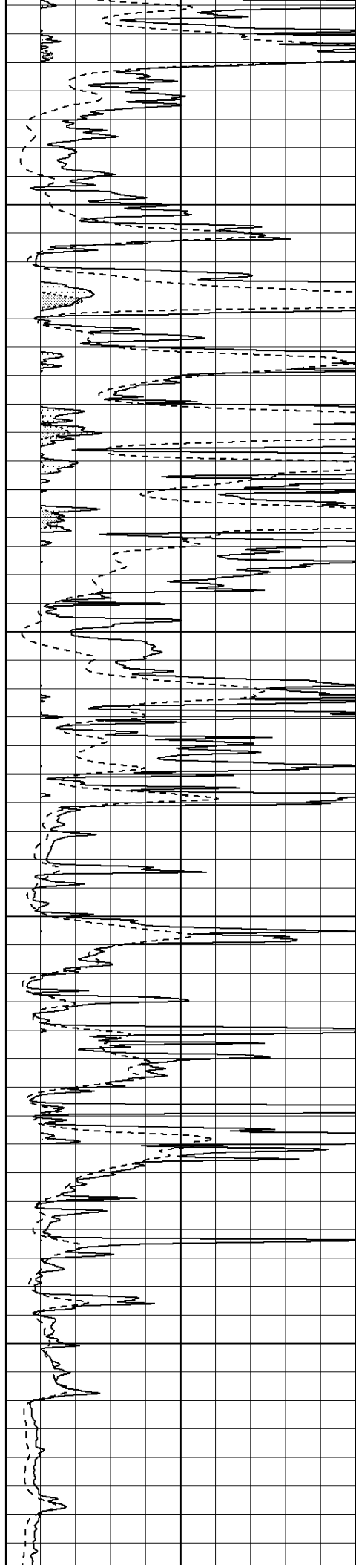
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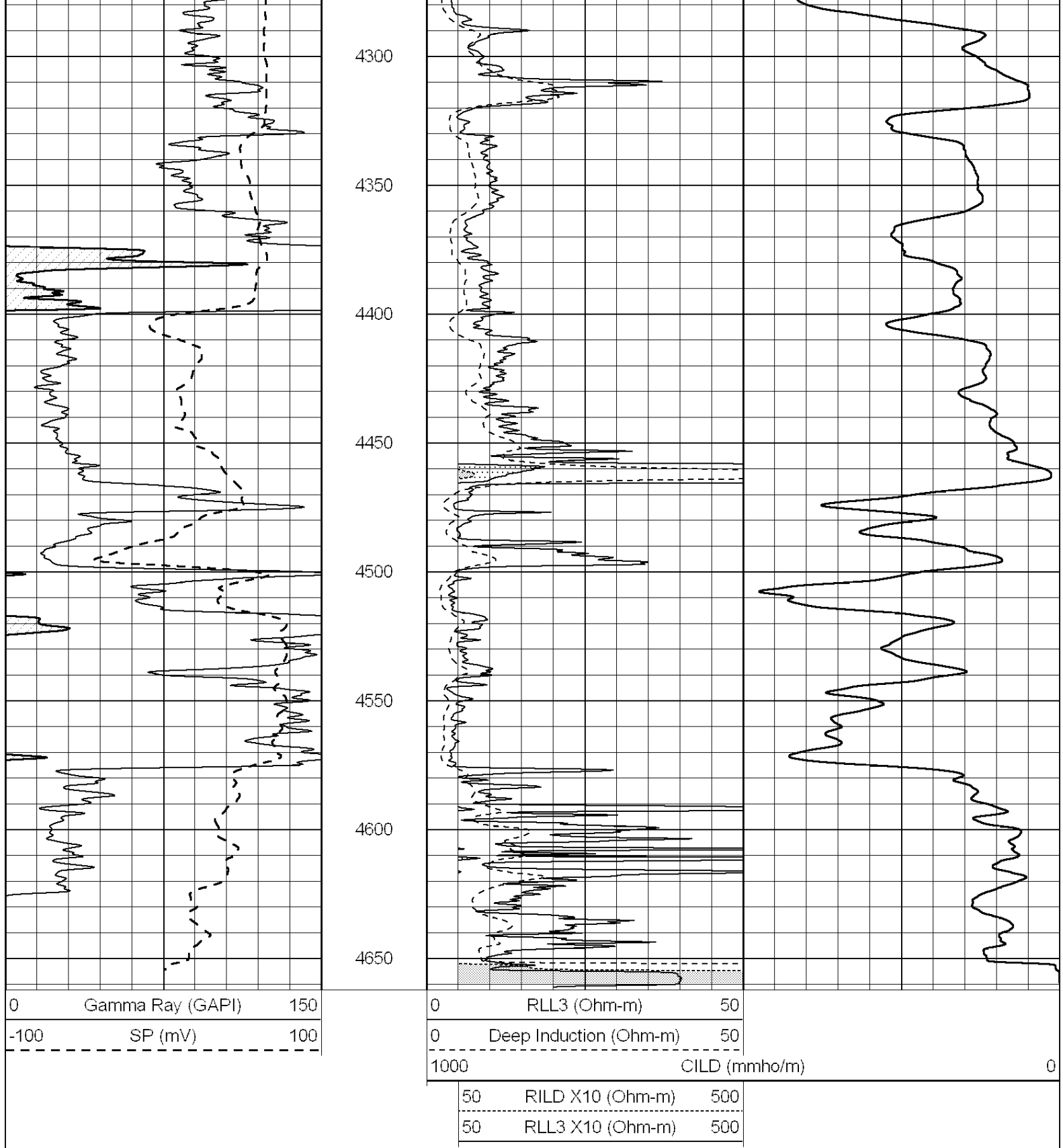
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4150

4200

4250





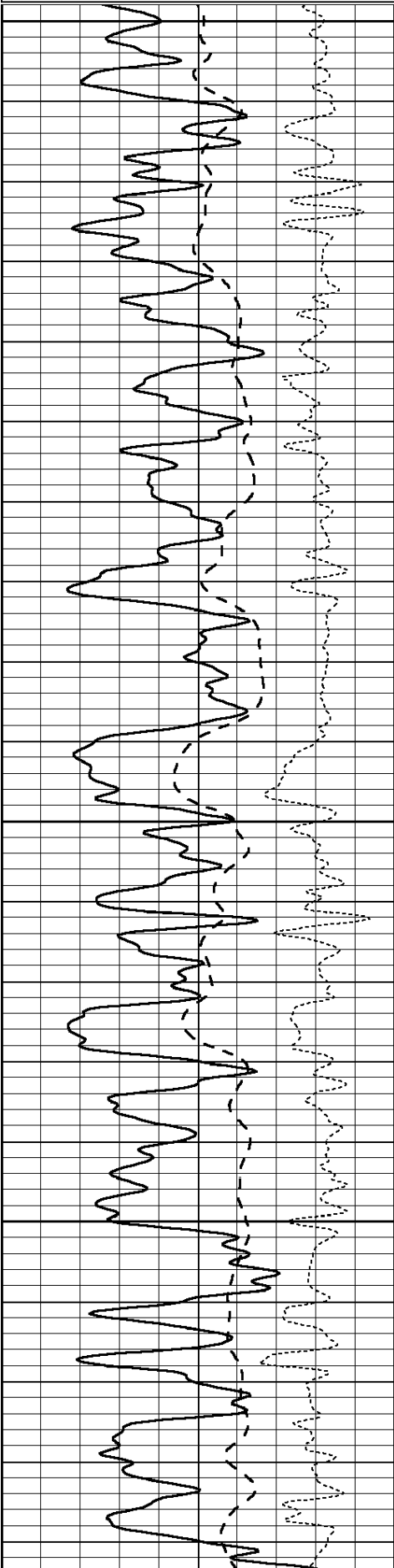
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 008057pe.db
Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Fri Mar 02 10:12:54 2012 by Calc Open-Cased 090629
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

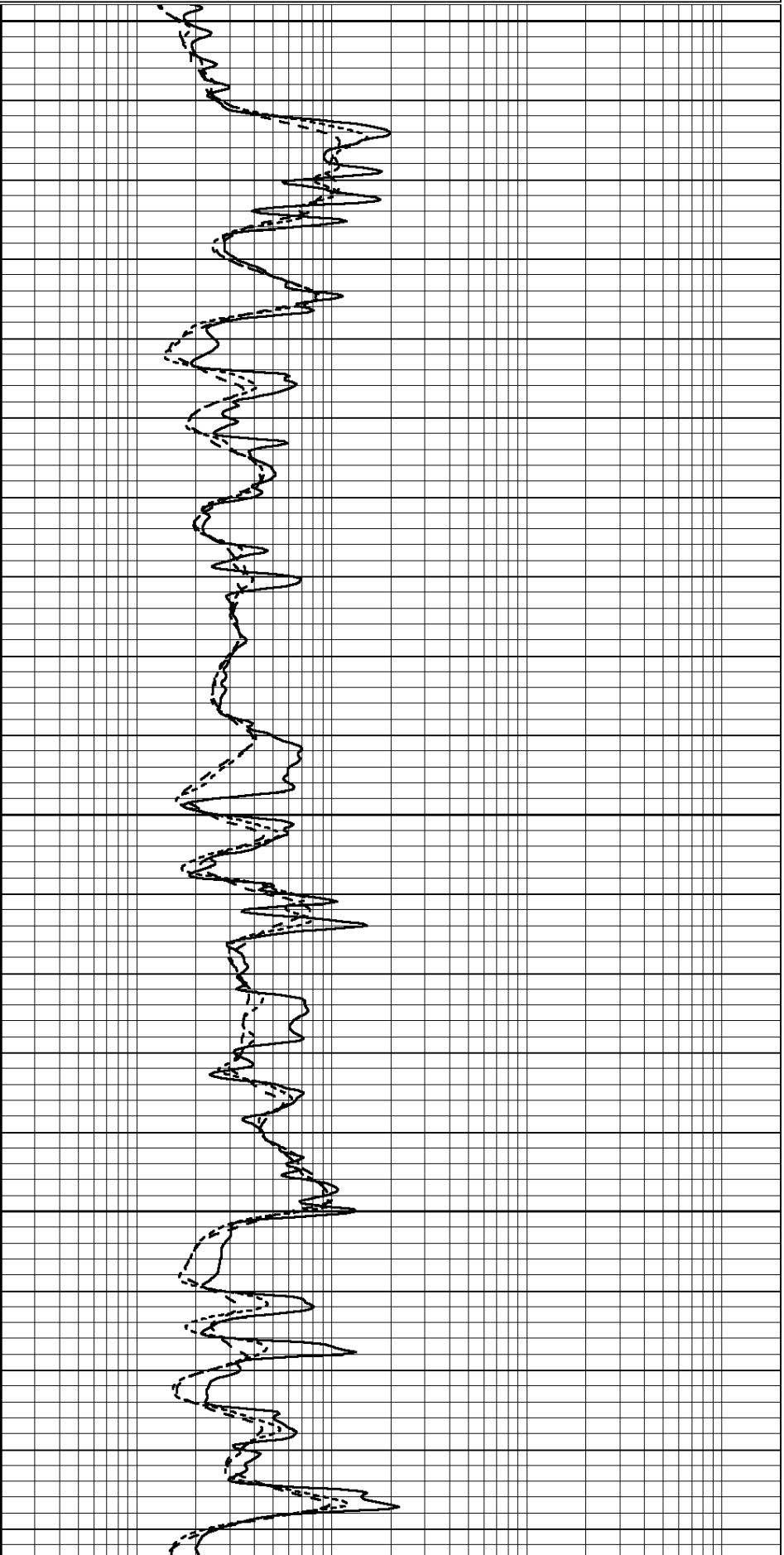


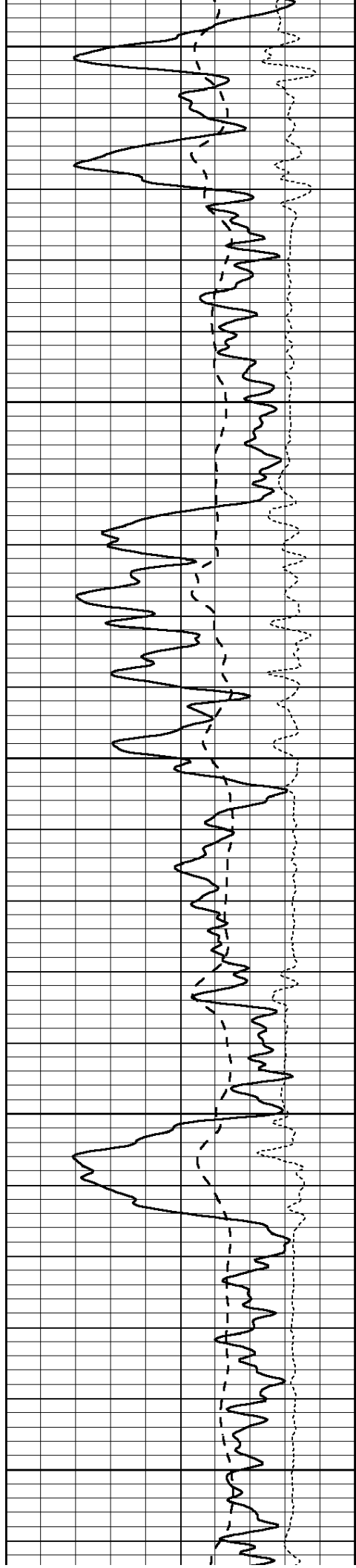
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2300

2350





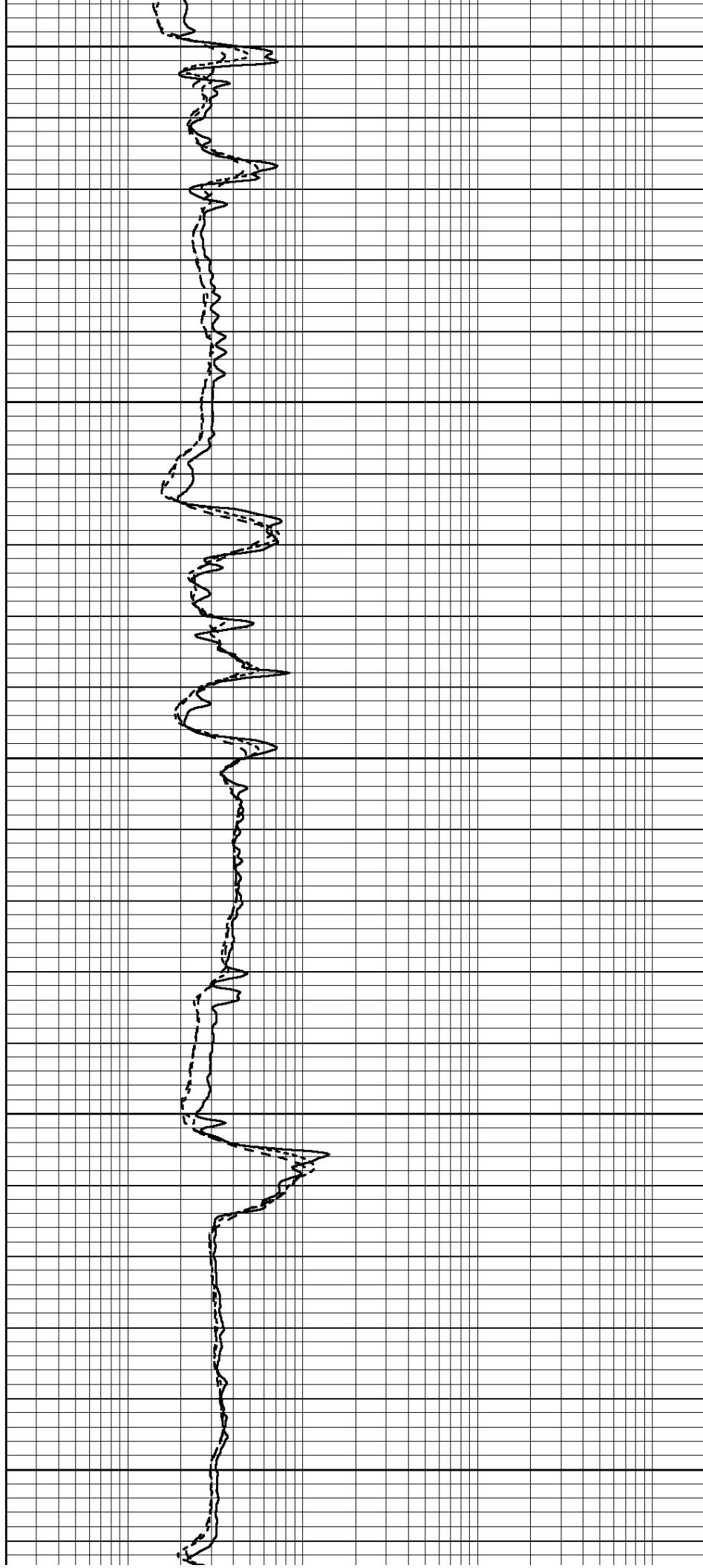
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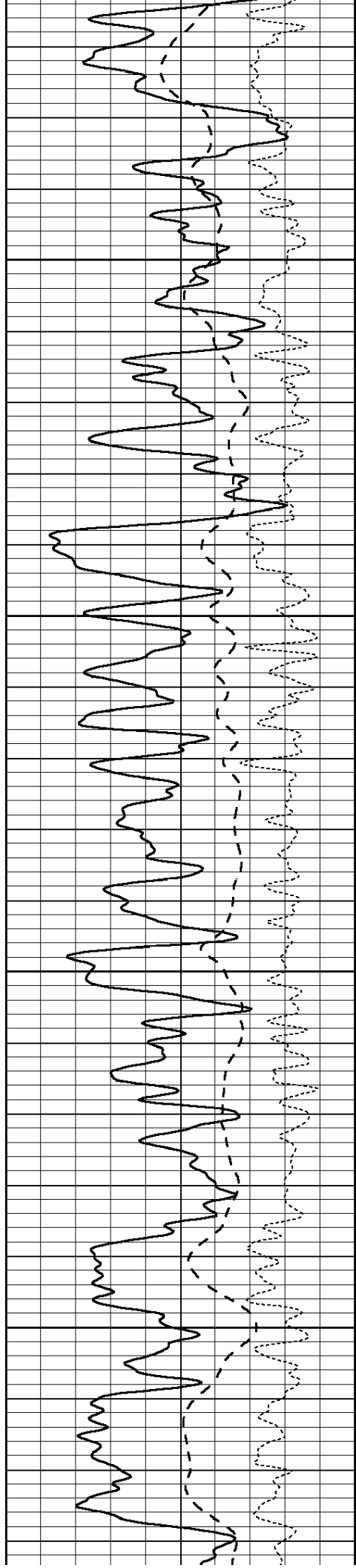
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2600



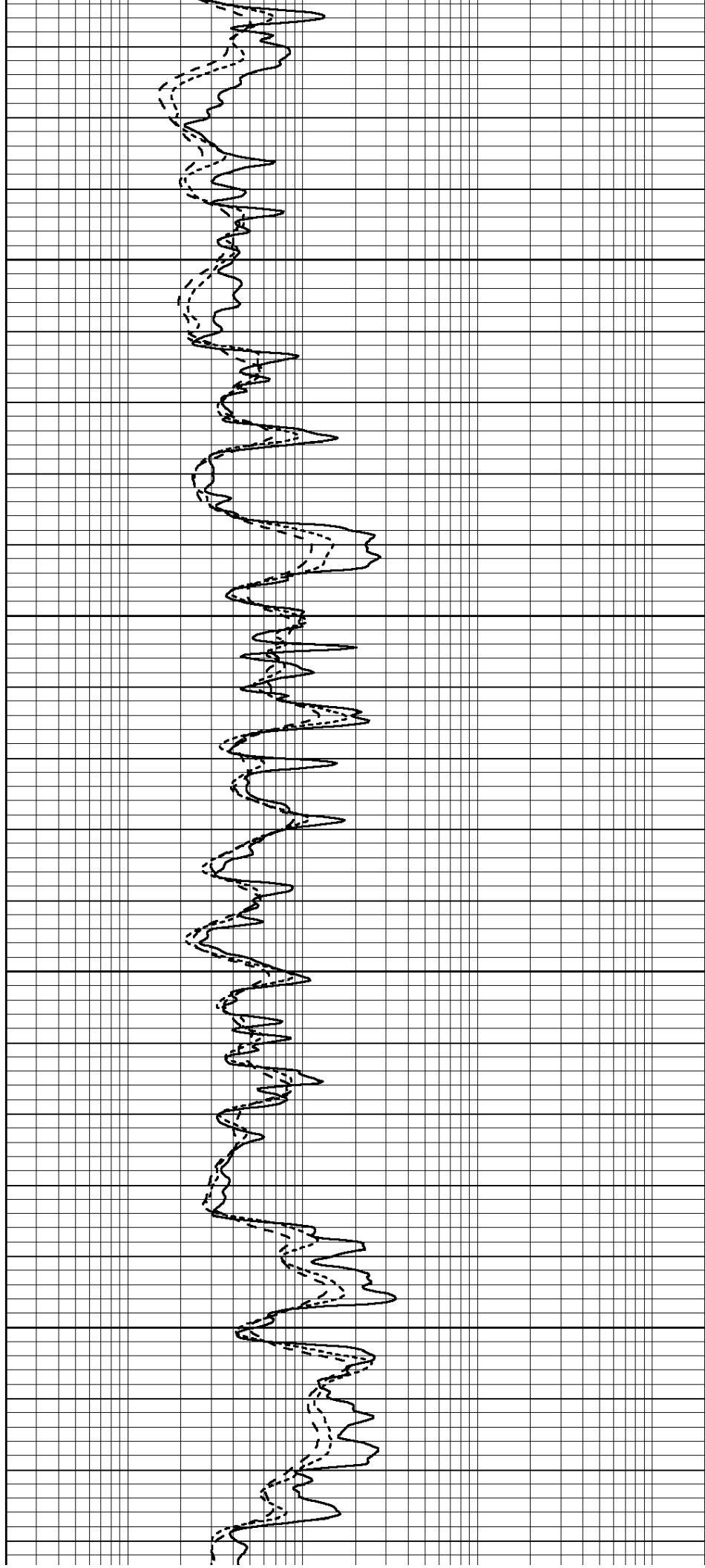


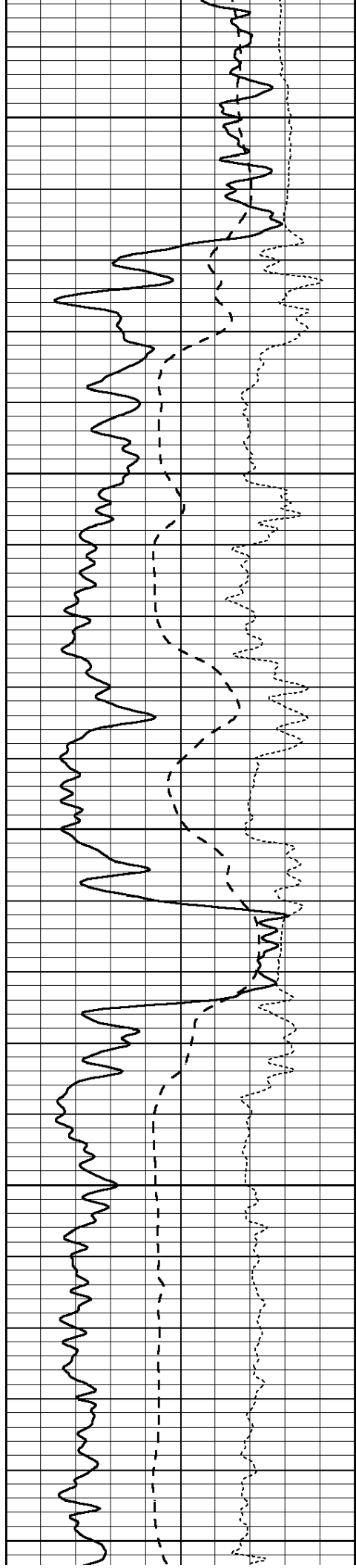
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2750

2800





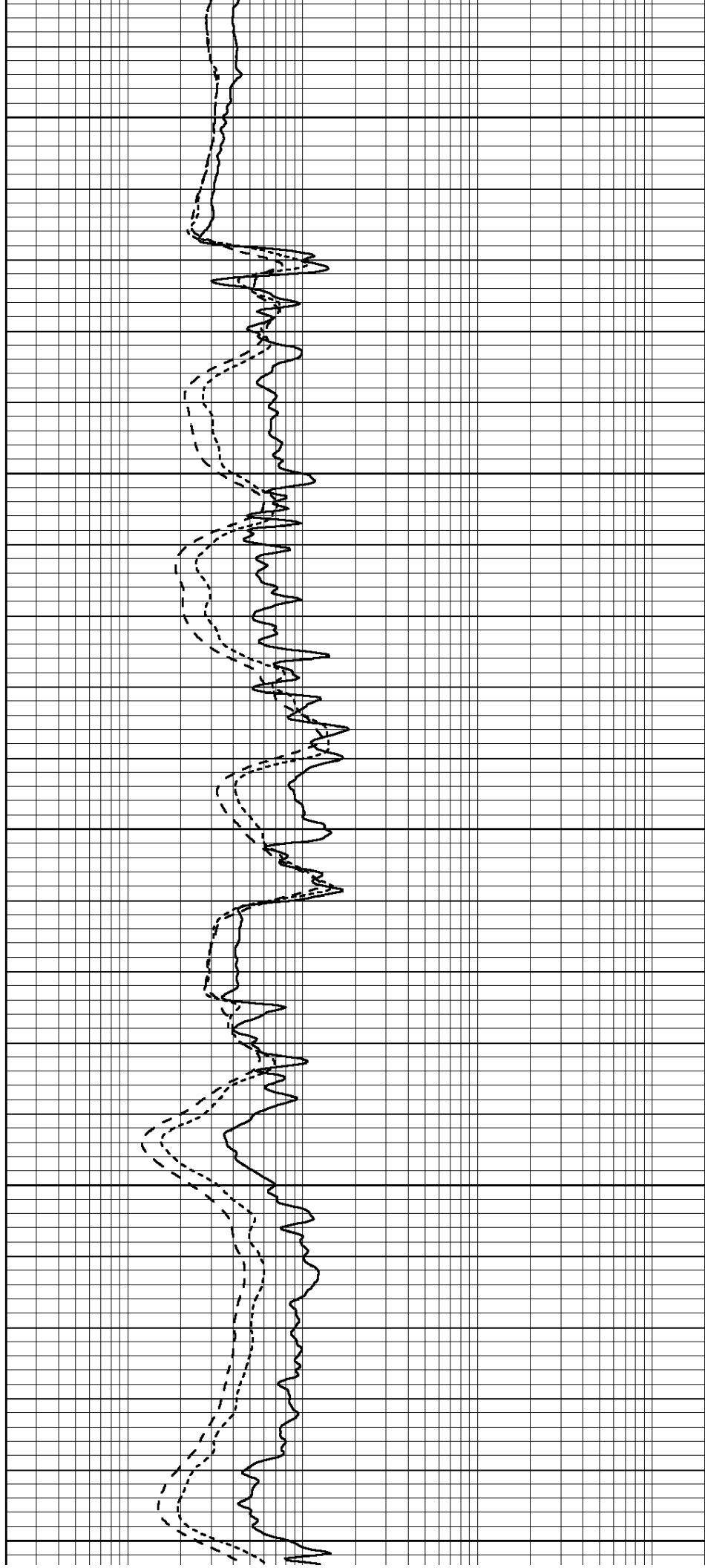
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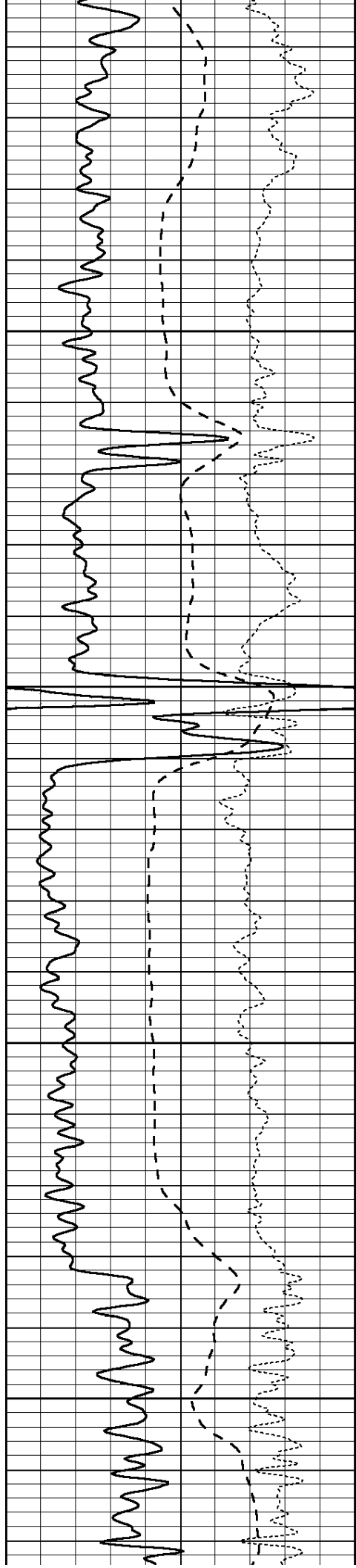
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2950

3000

3050



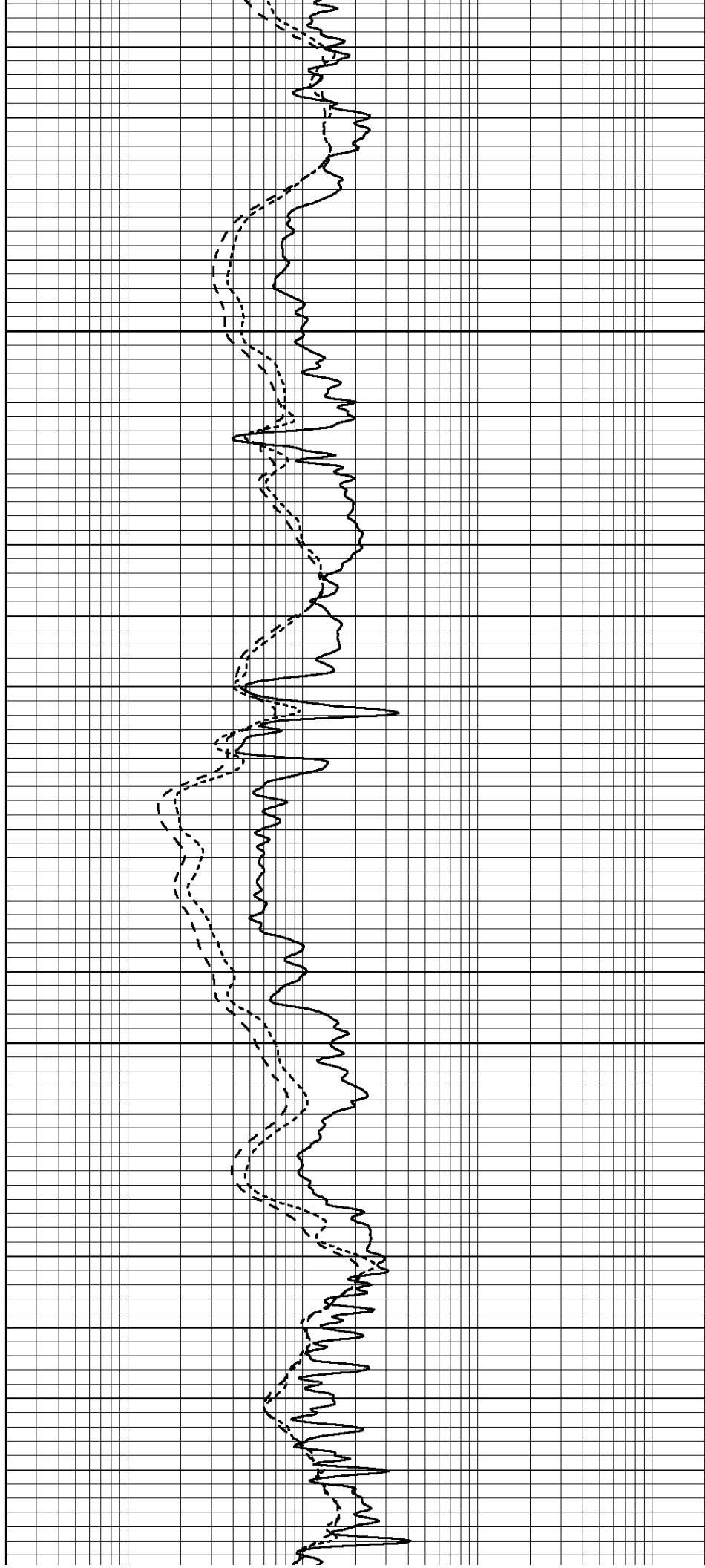


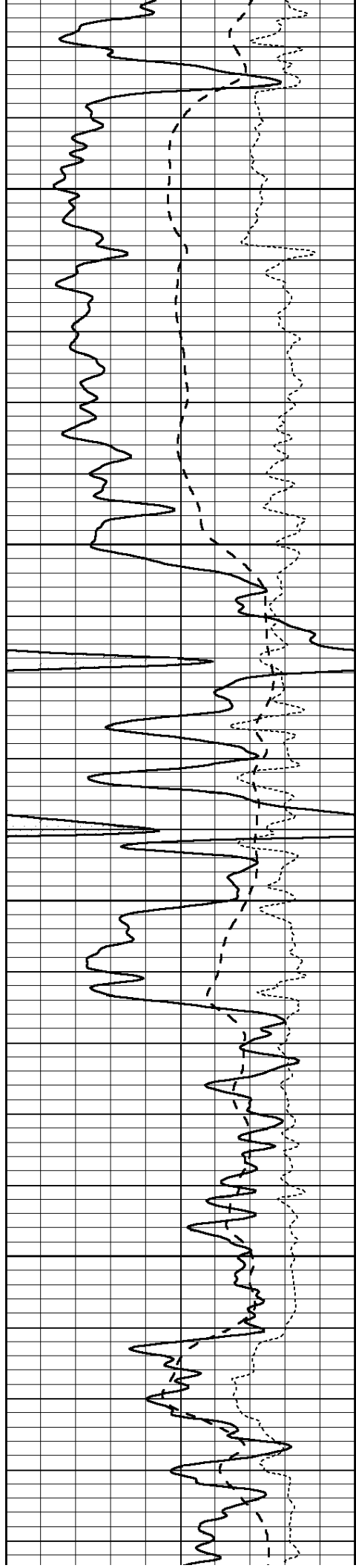
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3150

3200

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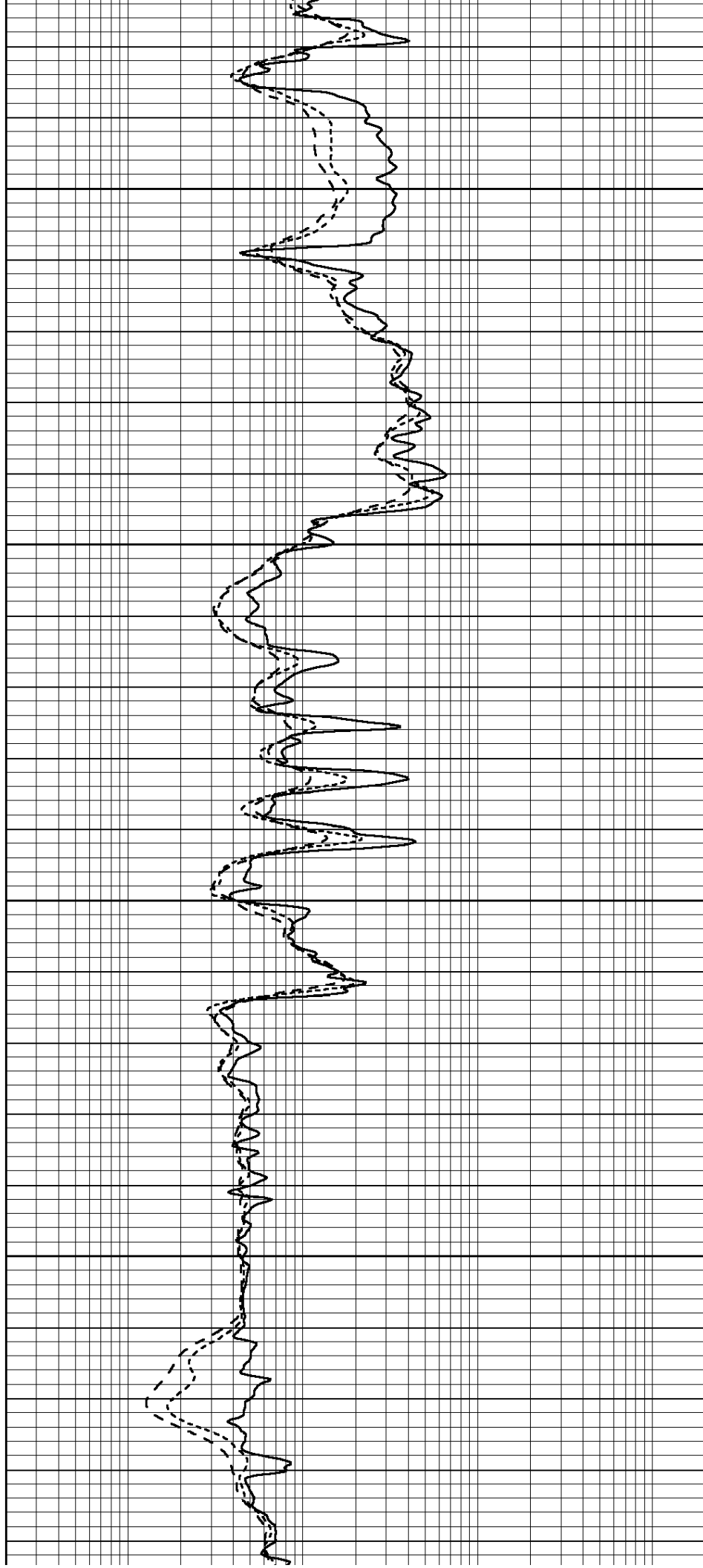


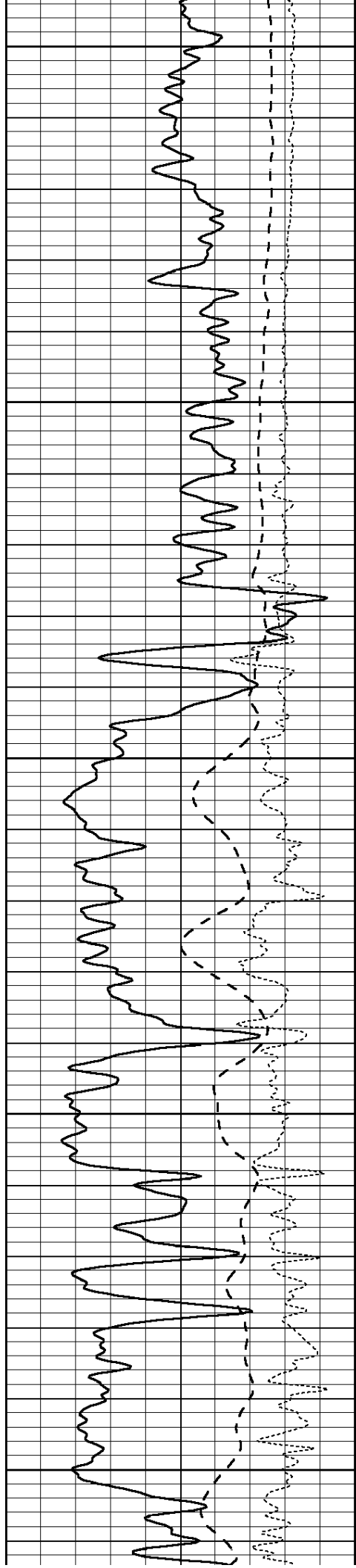
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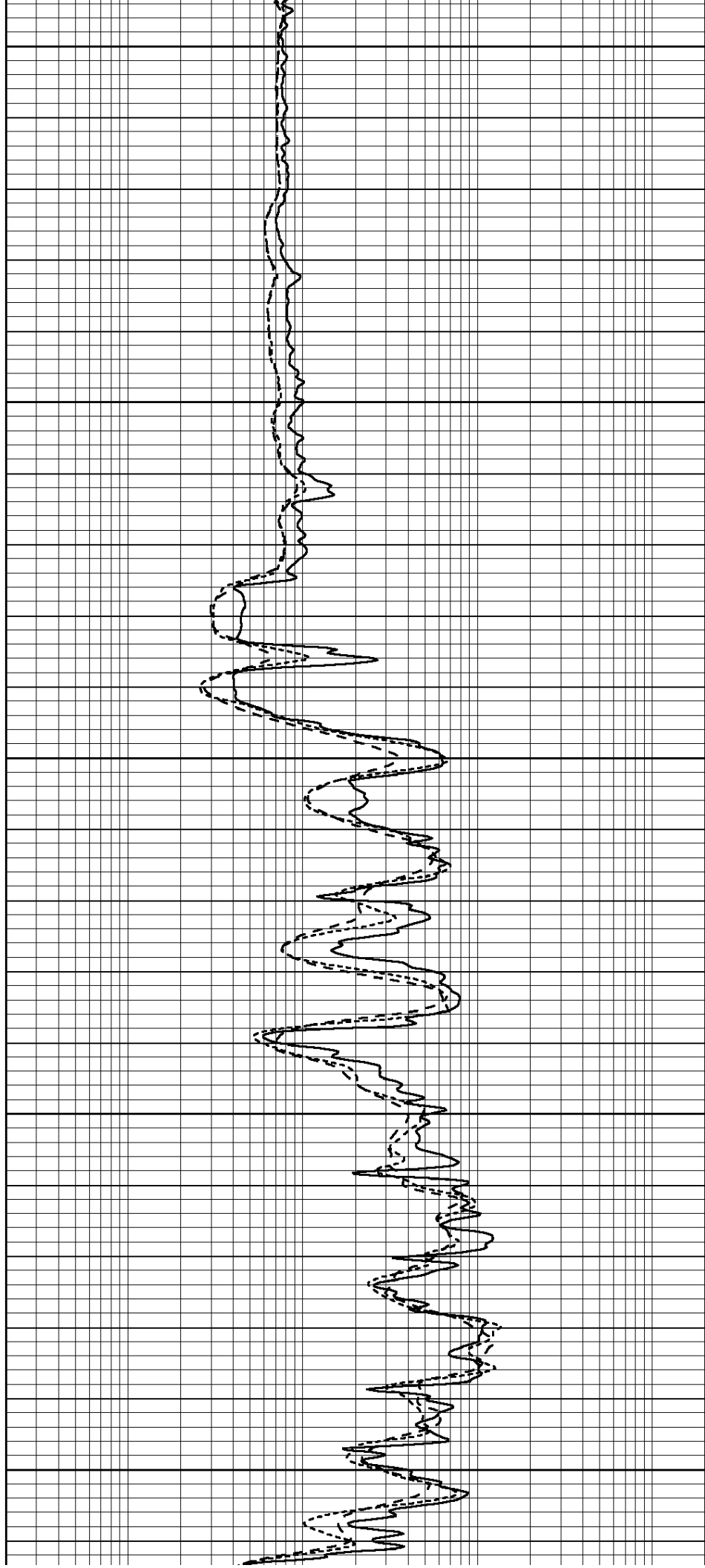
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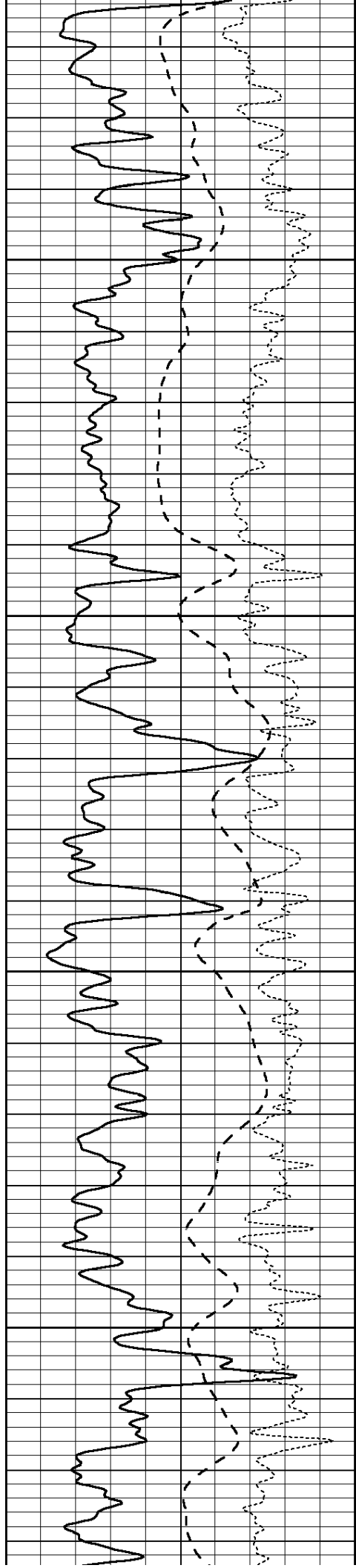
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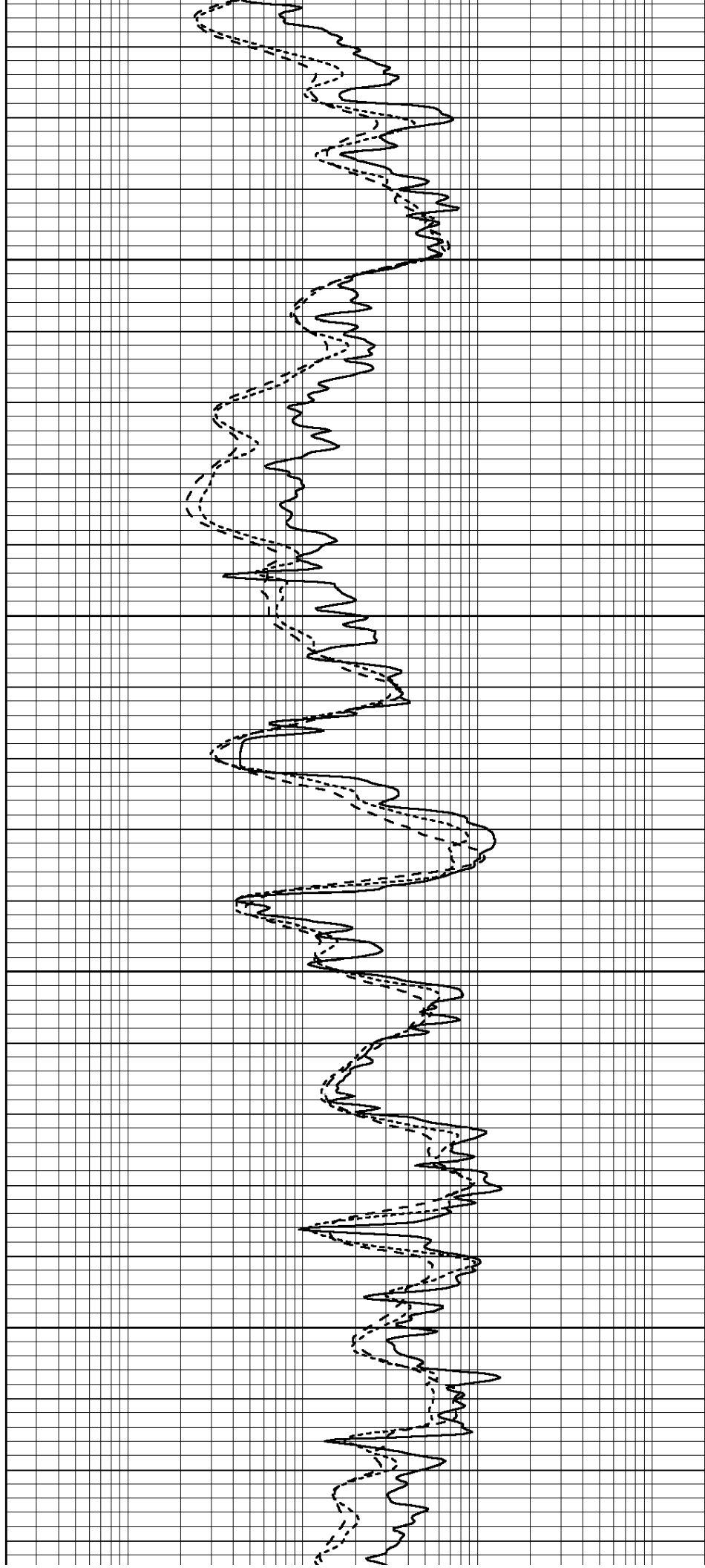


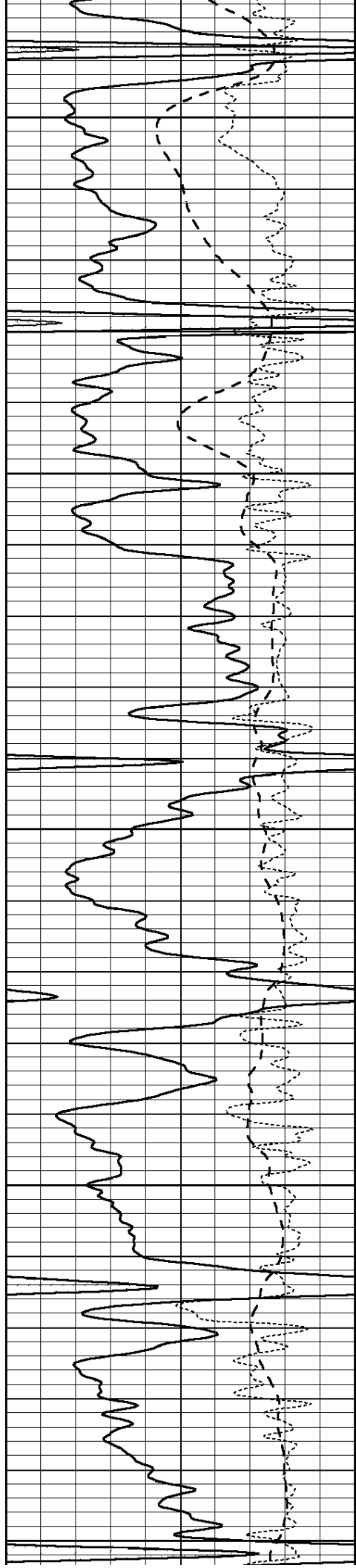
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3800

3850

3900





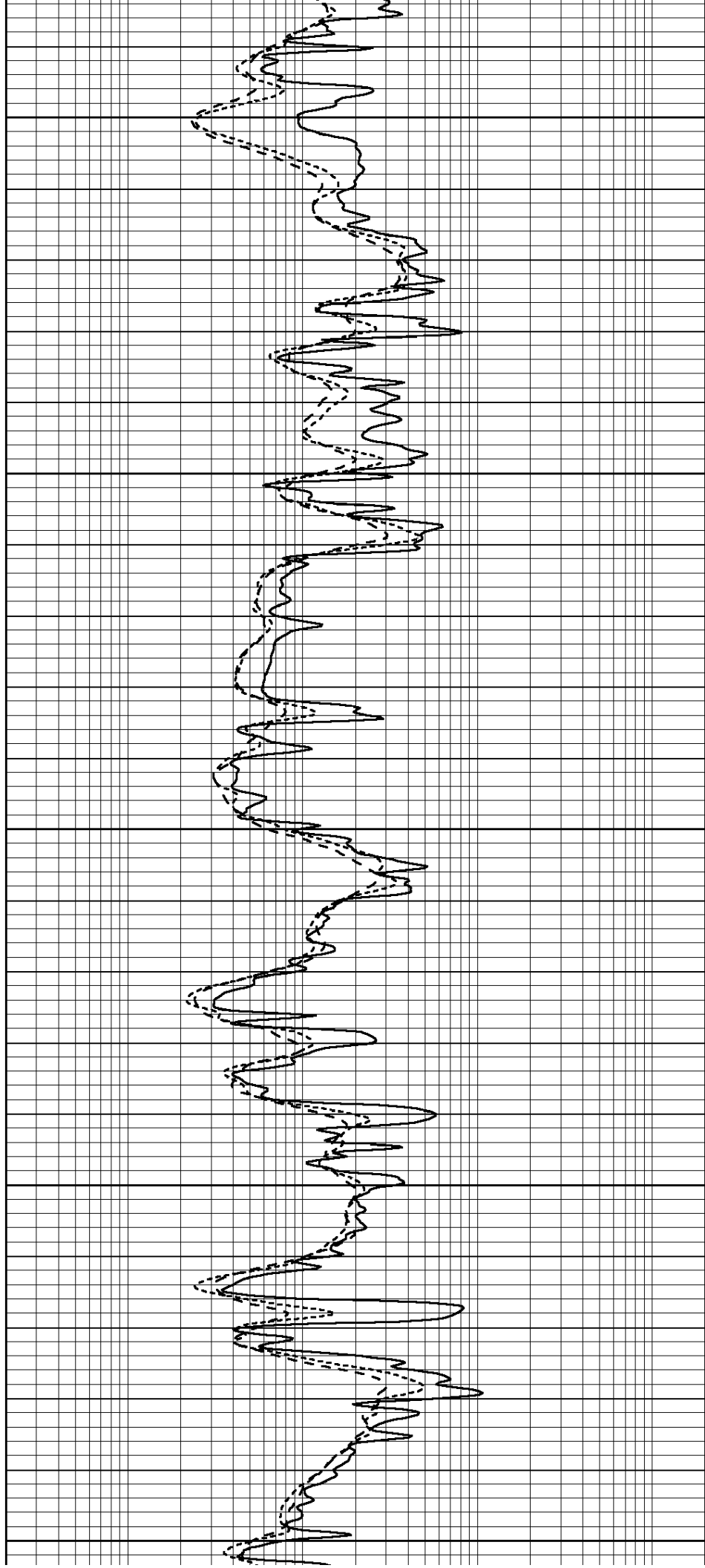
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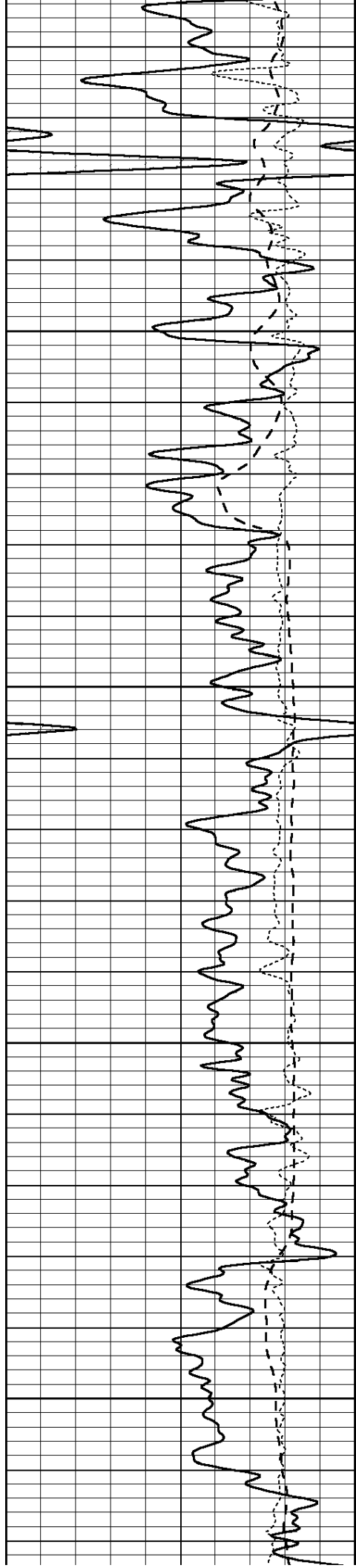
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4050

4100

4150



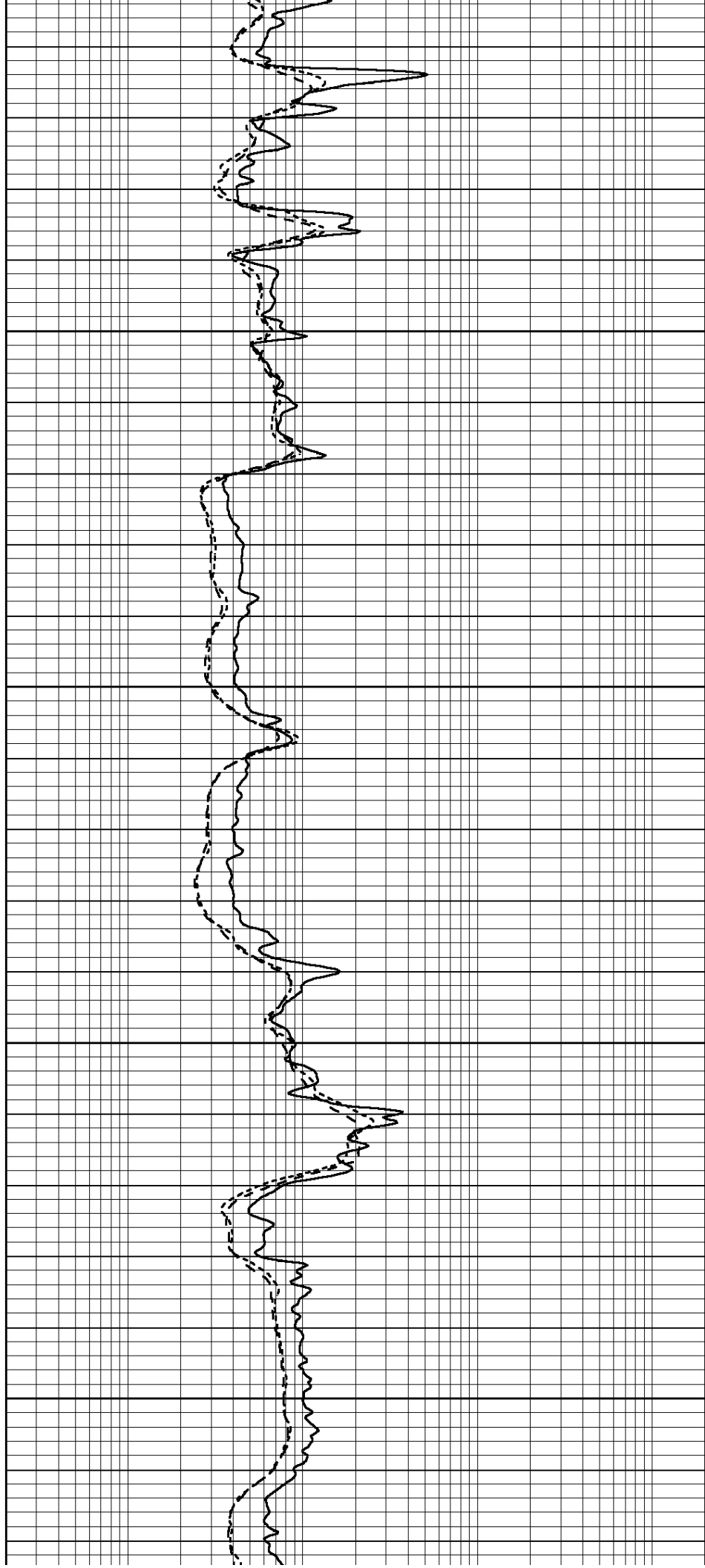


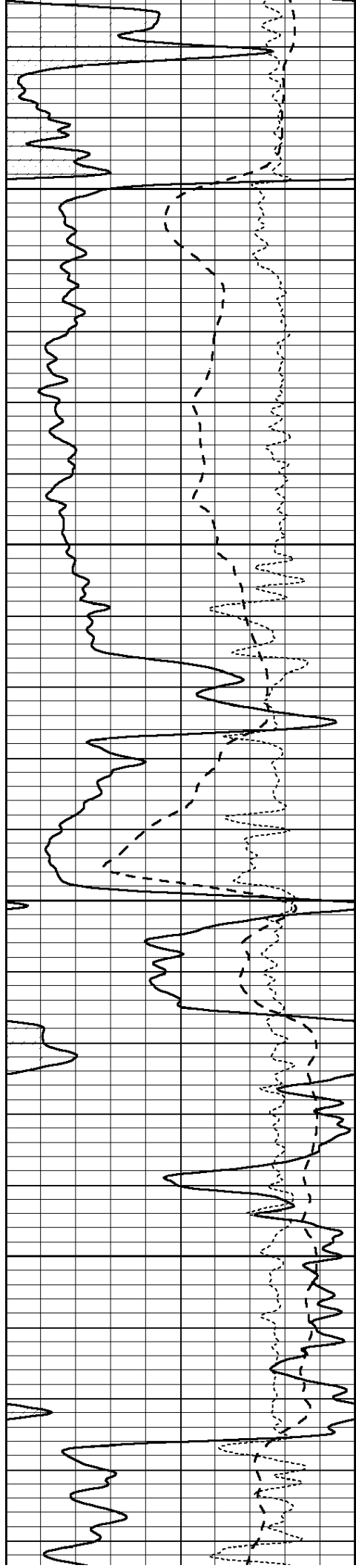
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4350



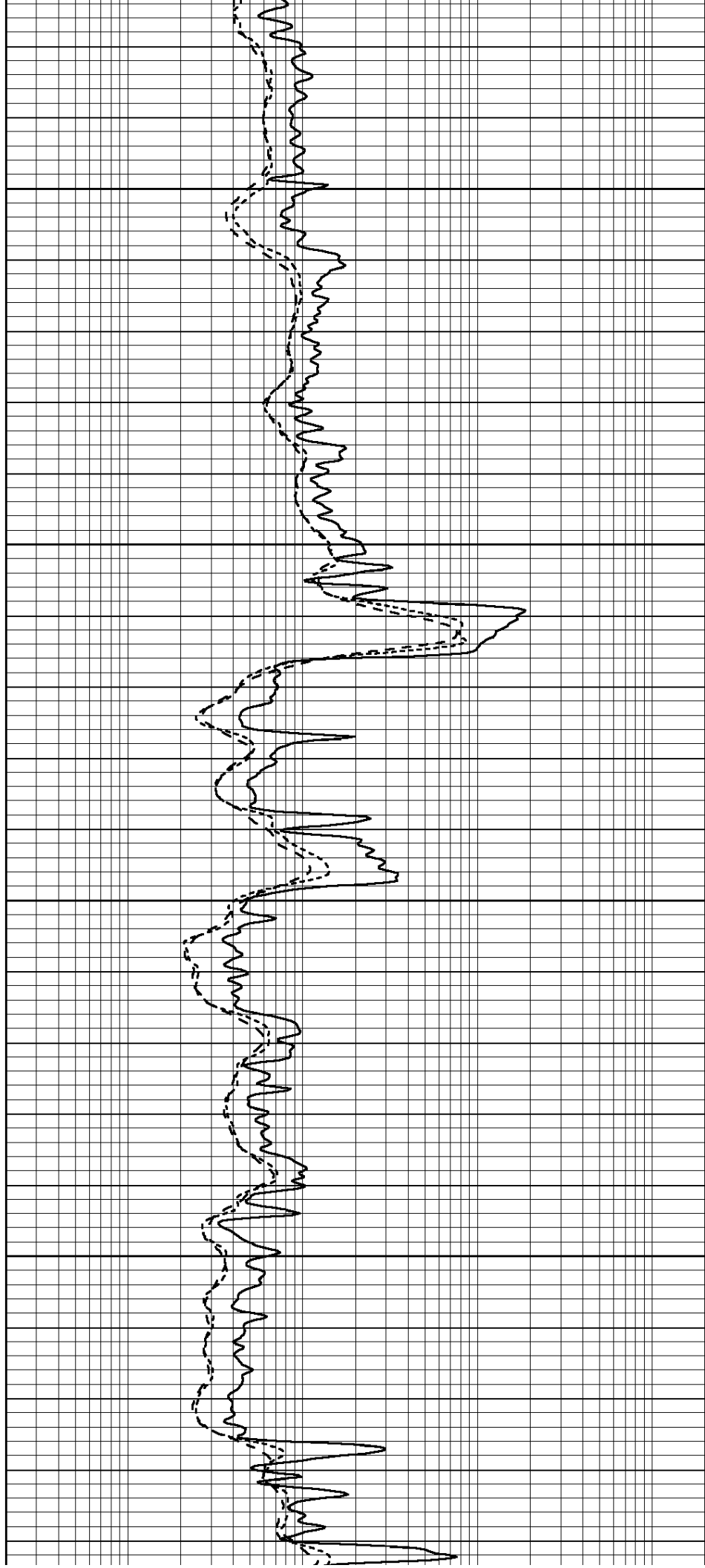


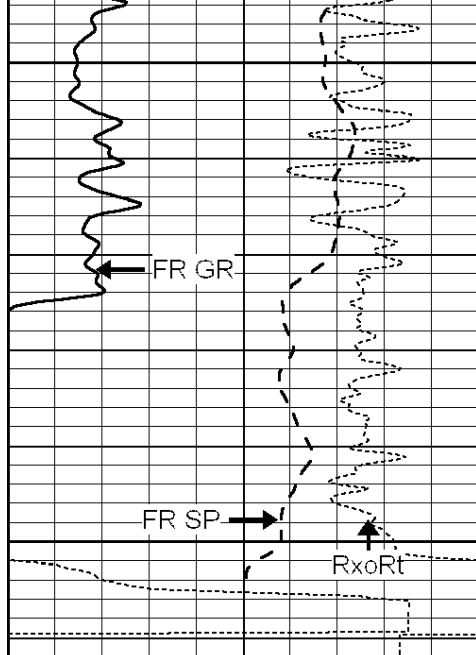
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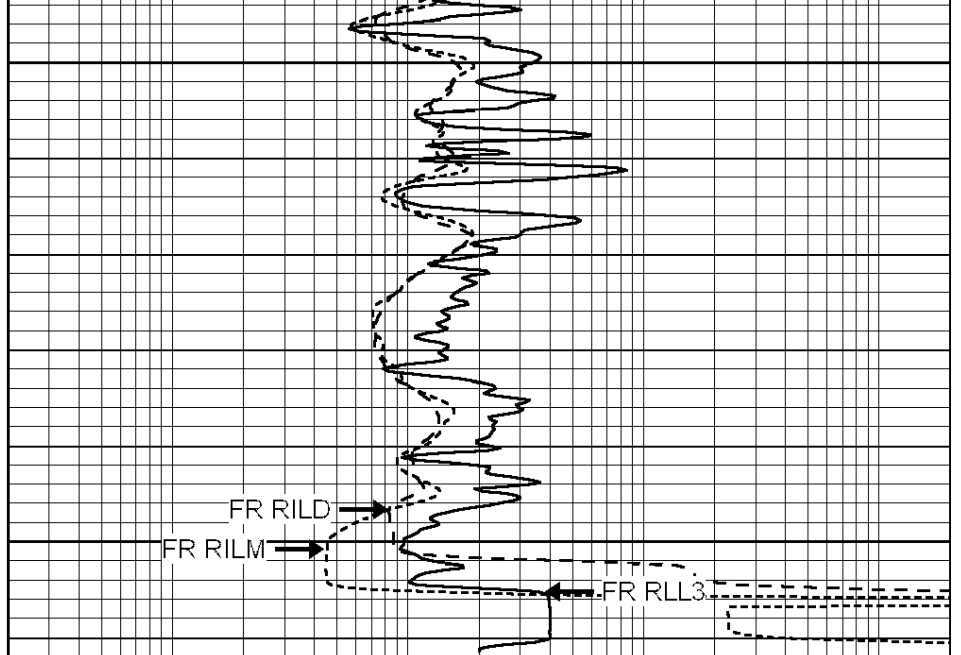


4600

4650

LTD 4658

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



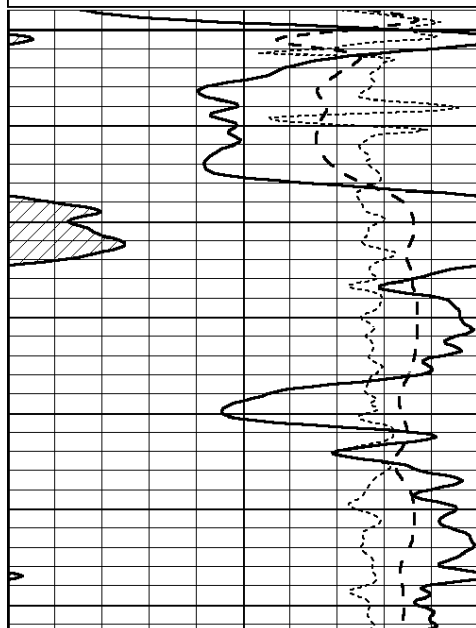
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 008057pe.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Fri Mar 02 10:12:02 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

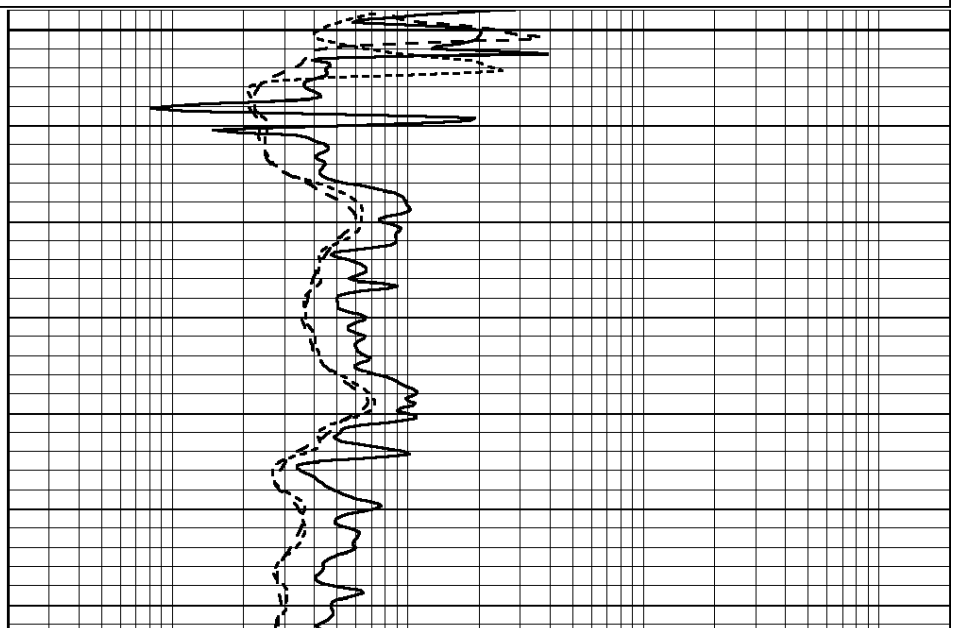
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-100	SP (mV)	100
-250	Rxo/Rt	50

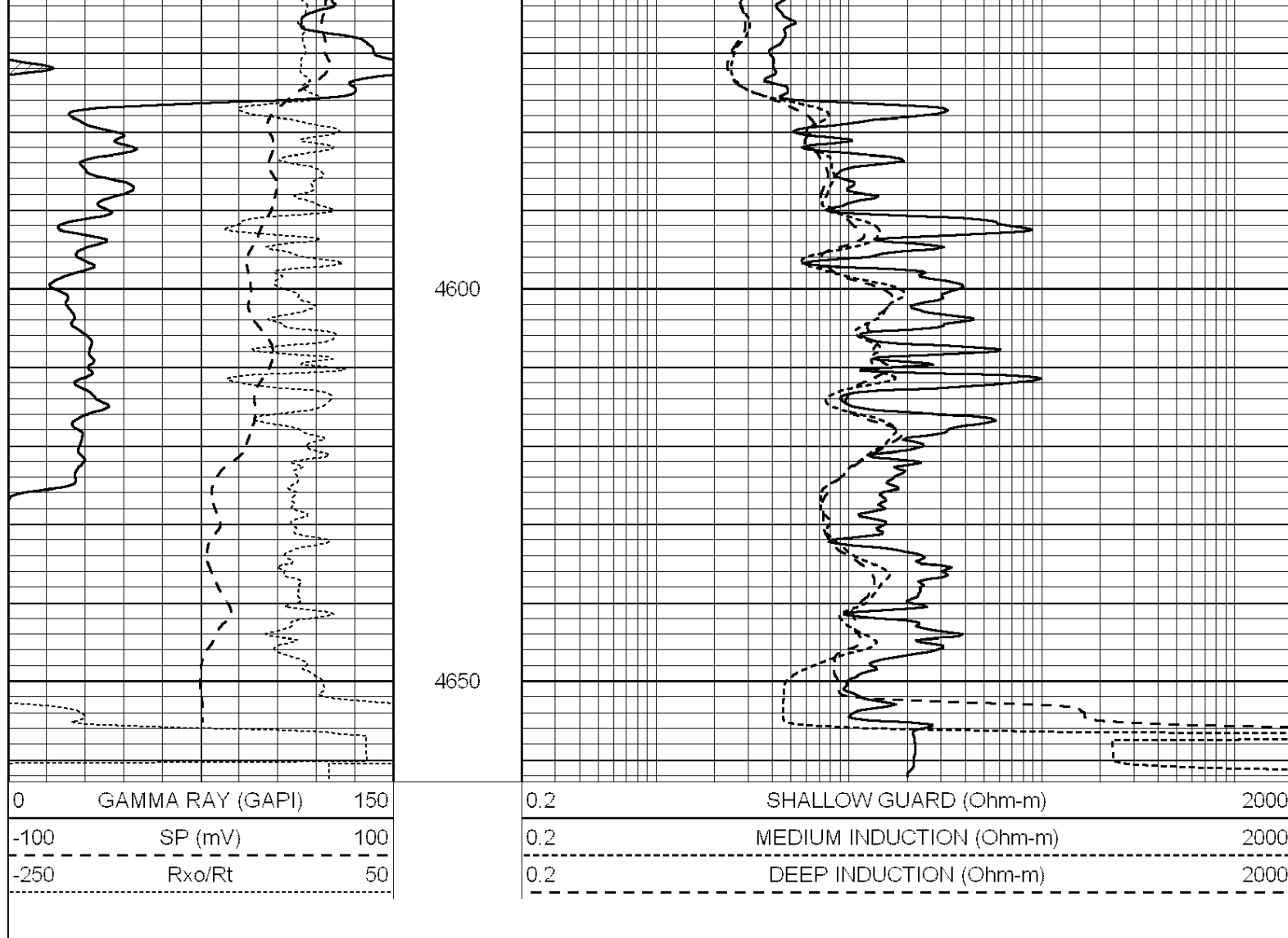
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



4500

4550





Calibration Report

Database File: 008057pe.db
 Dataset Pathname: pass3.1
 Dataset Creation: Fri Mar 02 10:12:54 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Fri Aug 01 06:33:19 2008
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

Readings				References			Results	
Zero	Cal			Zero	Cal		m'	b'

Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	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: 002 Model: PRB								
Performed Mon Oct 29 15:40:49 2007								
Litho Density Calibration								
	Background		Magnesium		Aluminum		Sandstone	
Window 1	1056.3		9118.0		2809.7		10378.4	cps
Window 2	969.9		7671.9		2431.6		8565.8	cps
Window 3	683.8		2939.8		1161.0		3161.8	cps
Window 4	231.4		231.6		226.7		230.8	cps
Long Space	0.0		6702.0		1461.7		7595.9	cps
Short Space	1.2		1433.6		959.4		1568.6	cps
Rho			1.7100		2.5900		1.3800	g/cc
Pe					2.5700		1.5500	
Rib Angle	: 45.2		Rib Slope	: 1.008		Density/Spine Ratio		: 0.559
Spine Angle	: 75.2		Spine Slope	: 3.791		Spine Intercept		: -18.7
Caliper								
Low Ref	Readings		Reference					
High Ref	3.7		8.0					
	6.1		14.0					
	Gain: 2.5				Offset: -1.3			
Compensated Neutron Calibration Report								
Serial Number:				6I				
Tool Model:				G				
CALIBRATION								
	Detector		Readings		Target		Normalization	
	Short Space		1.00 cps		1.00 cps		1.0000	
	Long Space		1.00 cps		1.00 cps		1.0000	
Gamma Ray Calibration Report								
Serial Number:			#8					
Tool Model:			OPEN					
Performed:			Mon Jun 13 16:56:43 2011					
Calibrator Value:			150.0			GAPI		
Background Reading:			0.0			cps		
Calibrator Reading:			175.0			cps		
Sensitivity:			0.8371			GAPI/cps		