



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company LOTUS OPERATING COMPANY, LLC.	
Well ALBERDING #1	
Field STRANATHAN	
County BARBER	
State KANSAS	
Location: API # : 15-007-23830-0000 1815' FNL & 495' FEL SW-NE-SE-NE	
SEC 34 TWP 34S RGE 12W	
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL Elevation 1426 KELLY BUSHING 13' A.G.L. KELLY BUSHING
Other Services CDL/CNL/PE MEL/SON	
Elevation K.B. 1439 D.F. 1437 G.L. 1426	
Date 1/17/12	
Run Number ONE	
Depth Driller 5520	
Depth Logger 5526	
Bottom Logged Interval 5524	
Top Log Interval 00	
Casing Driller 8 5/8" @ 275	
Casing Logger 272	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 6400 PPM
Density / Viscosity 9.3/56	
pH / Fluid Loss 10.5/6.4	
Source of Sample FLOWLINE	
Rin @ Meas. Temp 1.30 @ 63F	
Rinf @ Meas. Temp .97 @ 63F	
Rinc @ Meas. Temp 1.56 @ 63F	
Source of Rinf / Rinc MEASURED	
Rin @ BHT .63 @ 129F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 129F	
Equipment Number 680	
Location HAYS, KS.	
Recorded By JASON CAPPELLUCCI	
Witnessed By TIM PRIEST	

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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
MEDICINE LODGE, KS. - 16 S. TO RATTLESNAKE TRAIL - 2 W. - S. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 008675ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil2
Dataset Creation: Wed Jan 18 02:04:24 2012 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:600

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

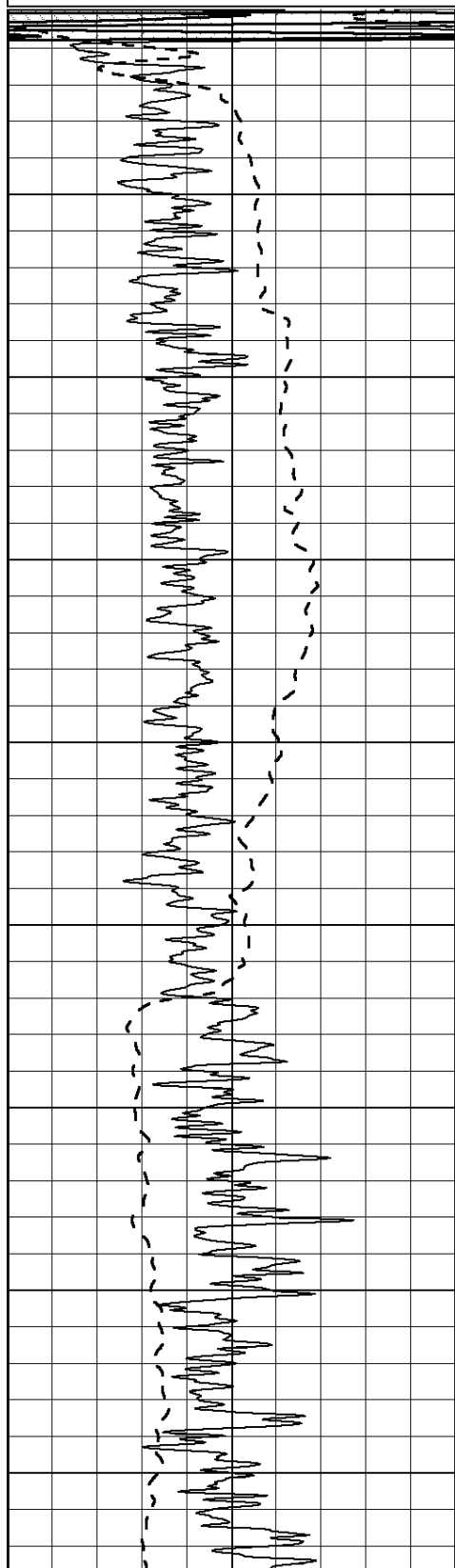
0 RLL3 (Ohm-m) 50

0 Deep Induction (Ohm-m) 50

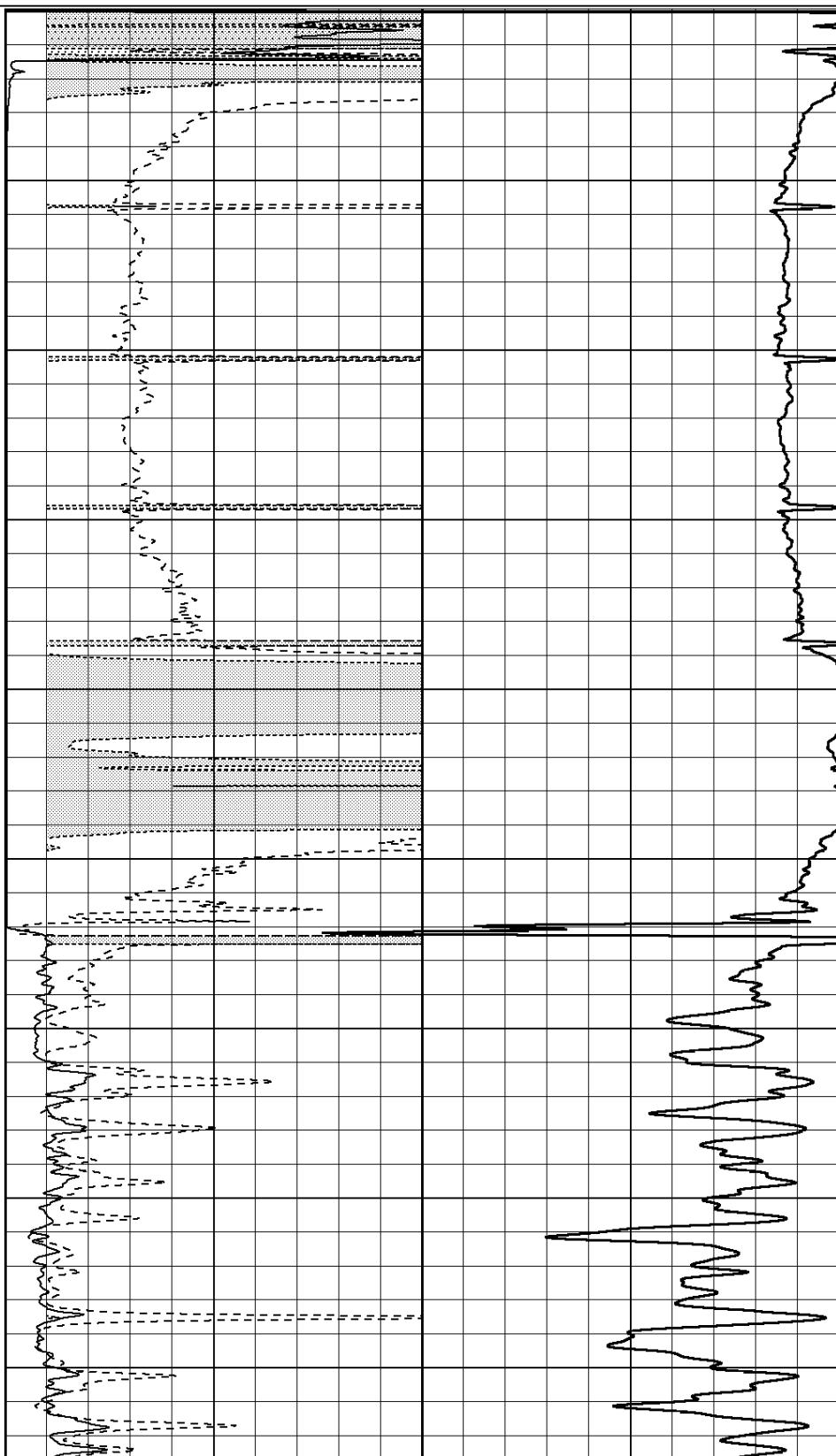
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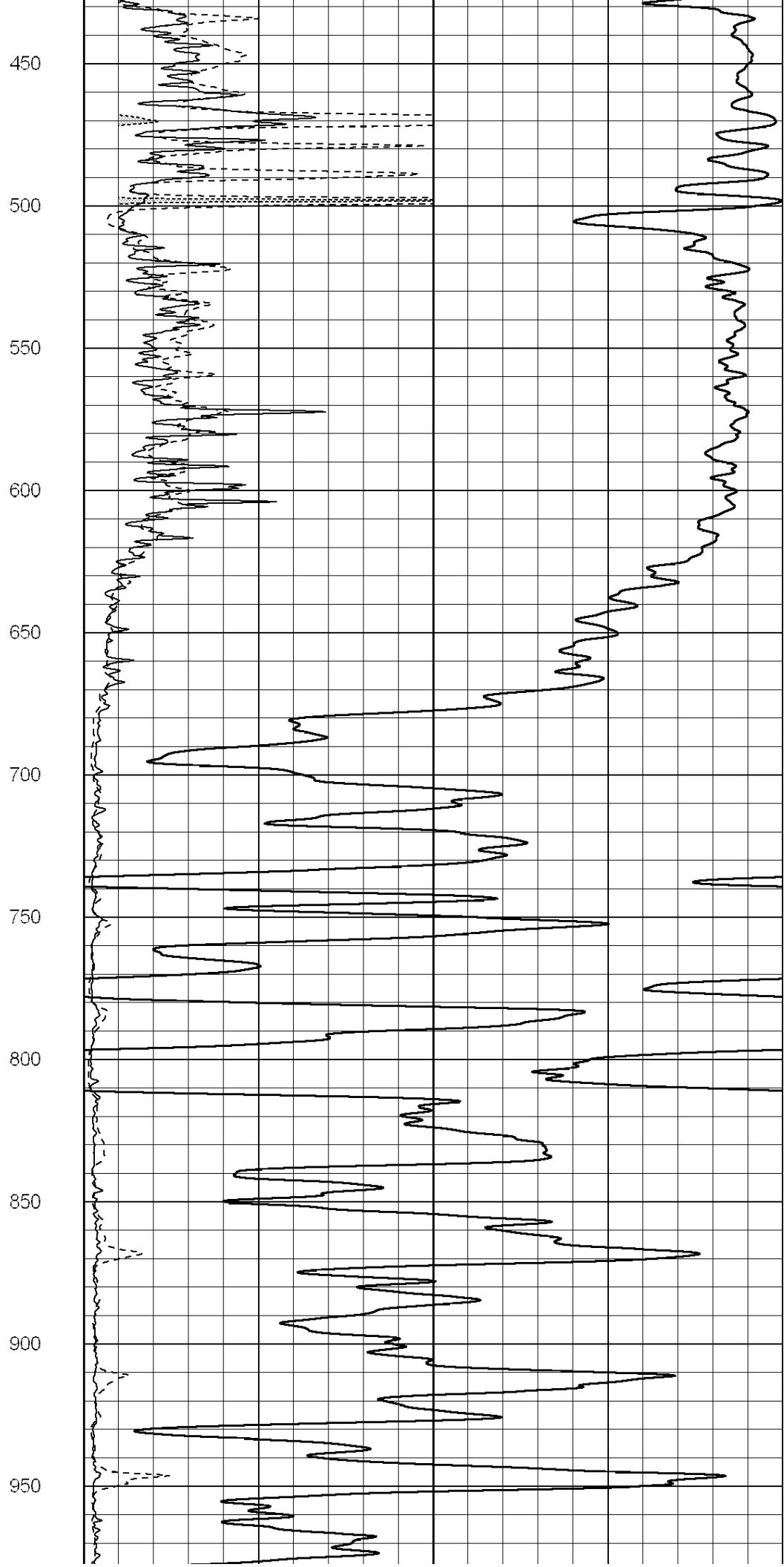
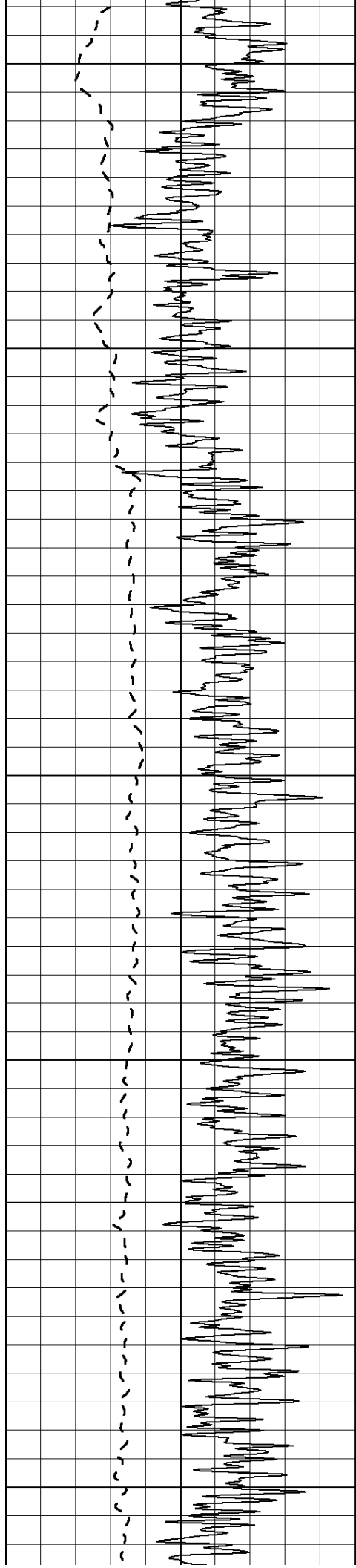
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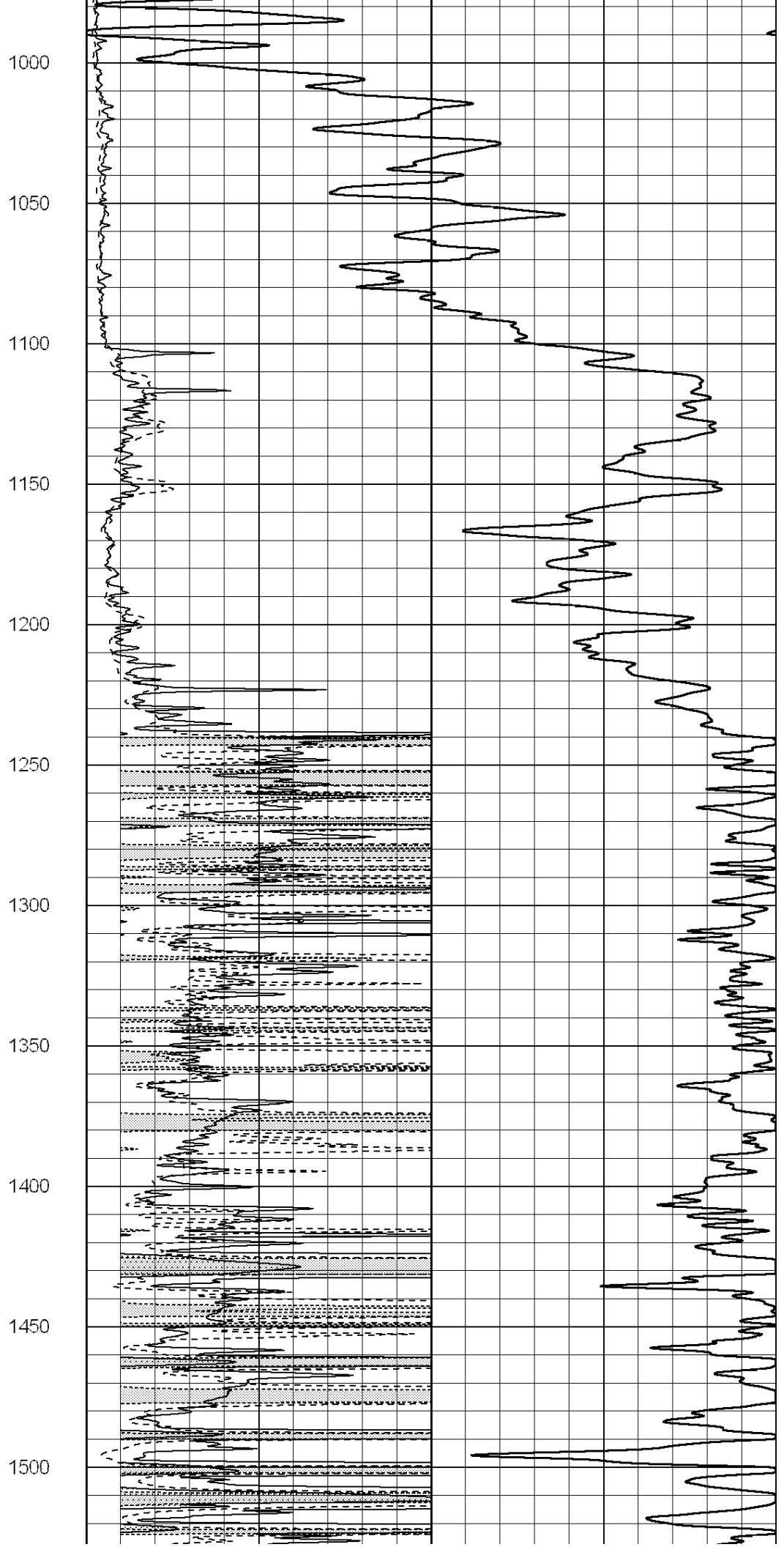
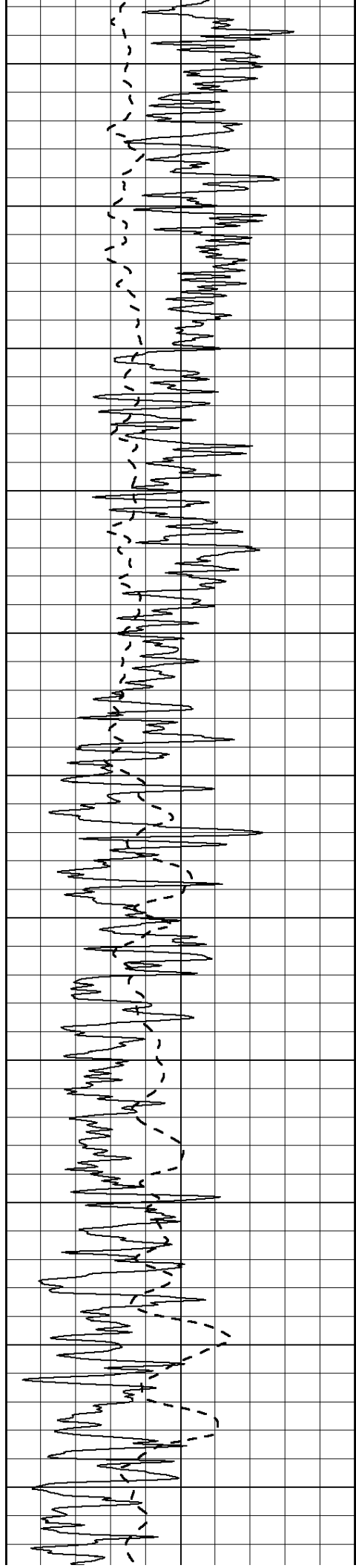
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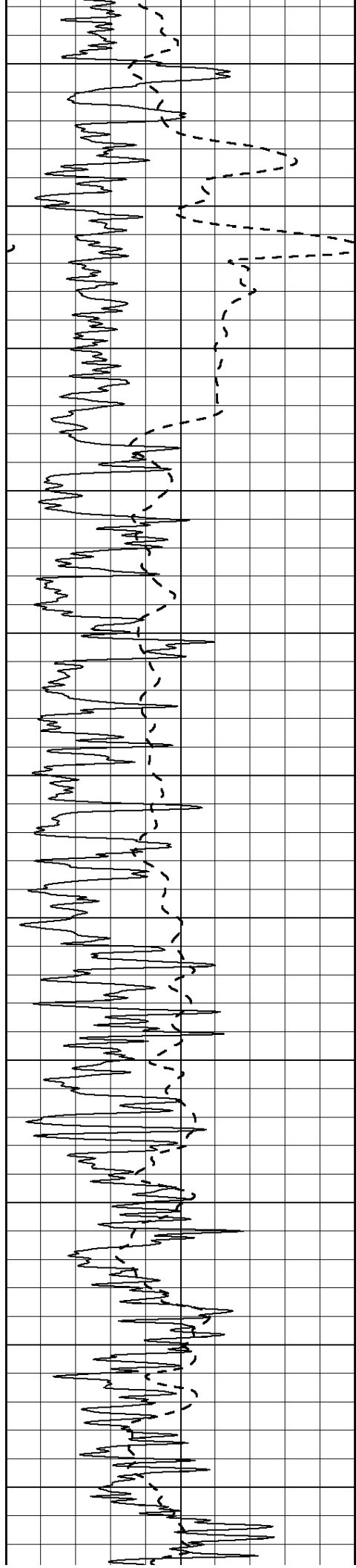


0
50
100
150
200
250
300
350
400









1550

1600

1650

1700

1750

1800

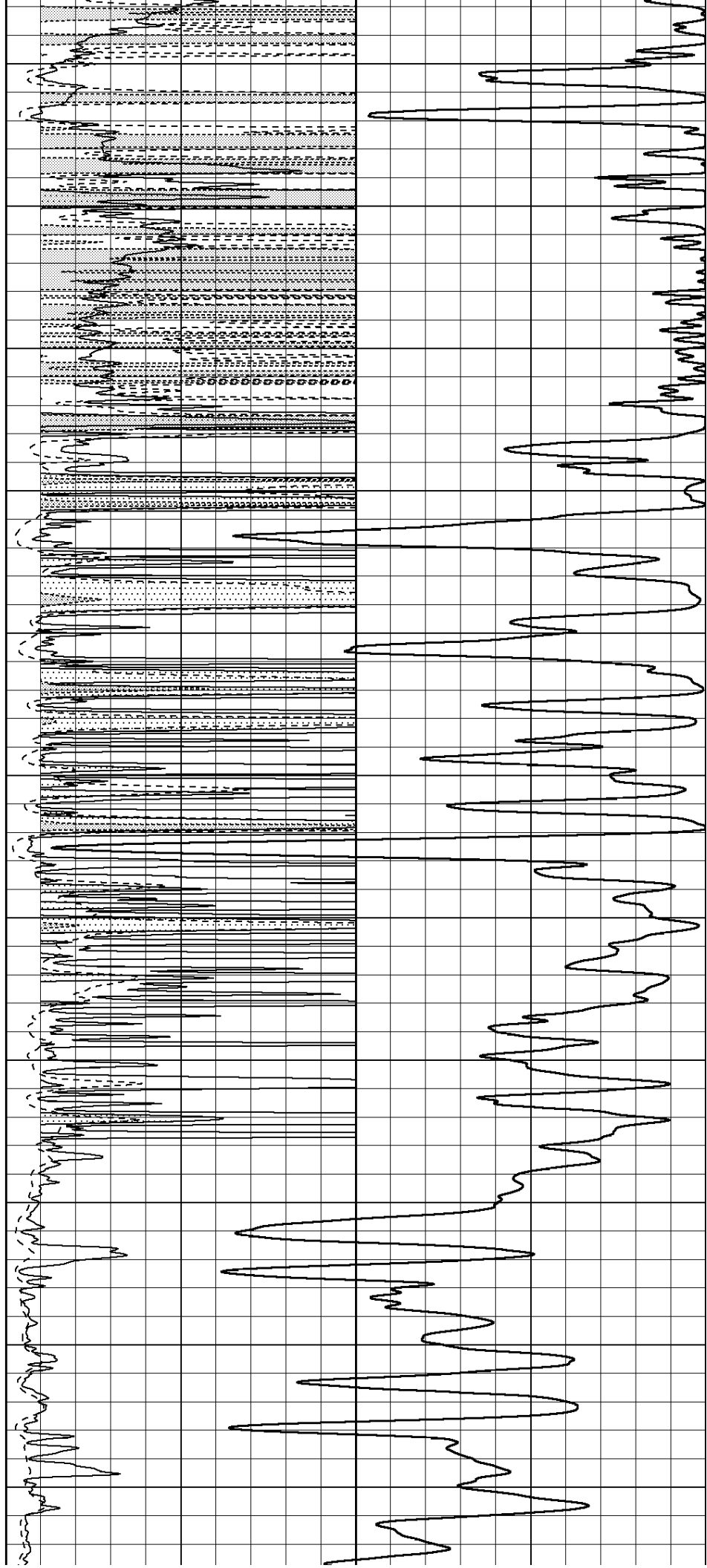
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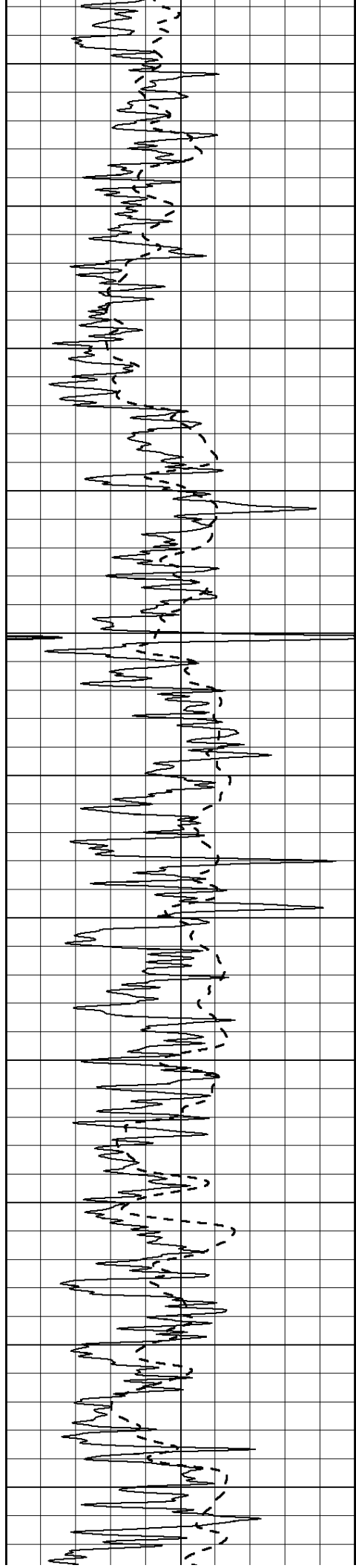
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2150

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2250

2300

2350

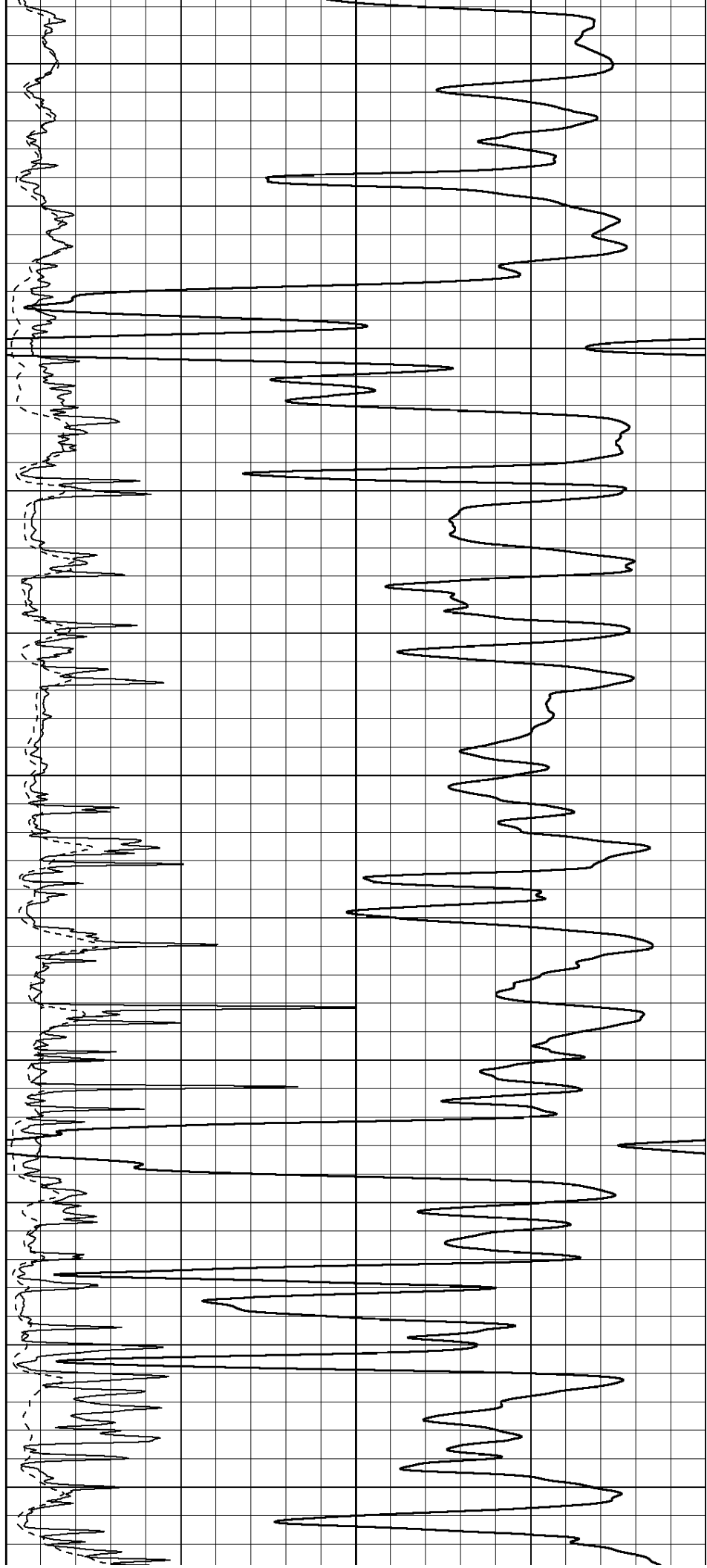
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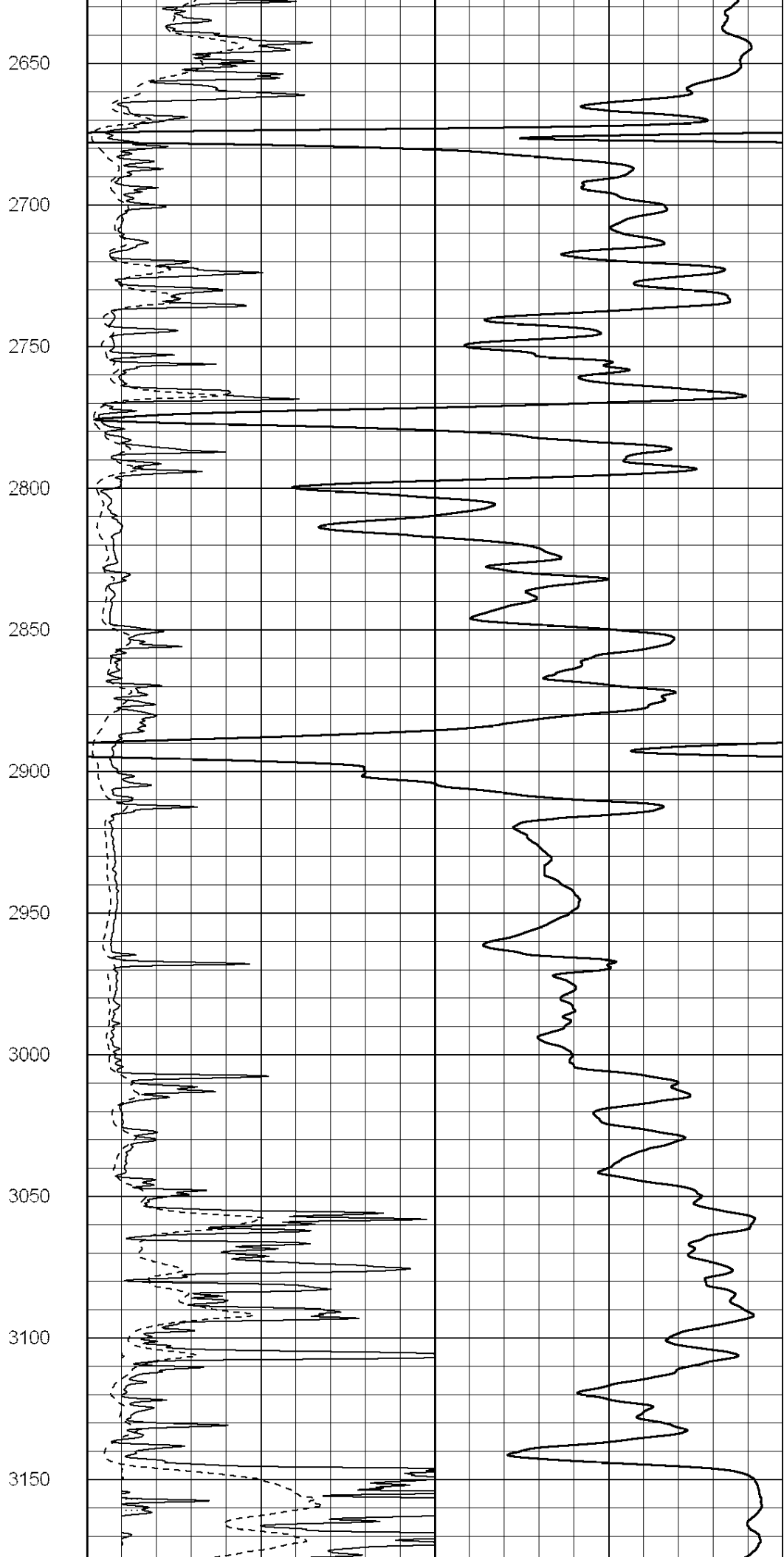
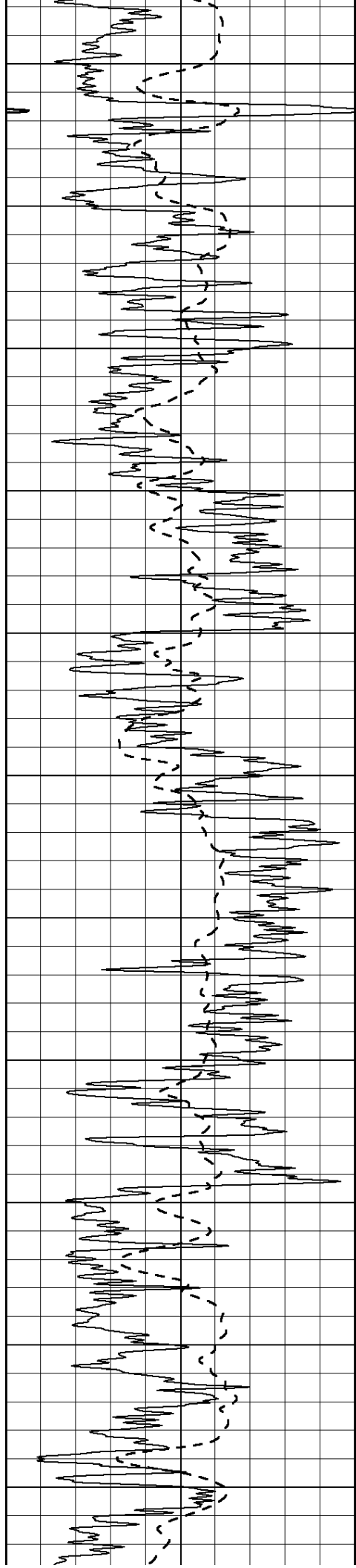
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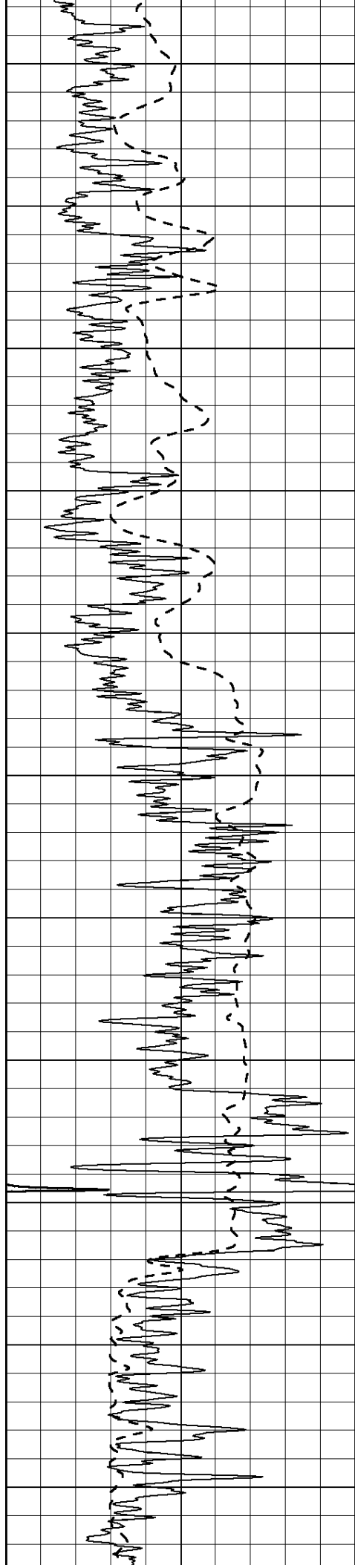
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3300

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3400

3450

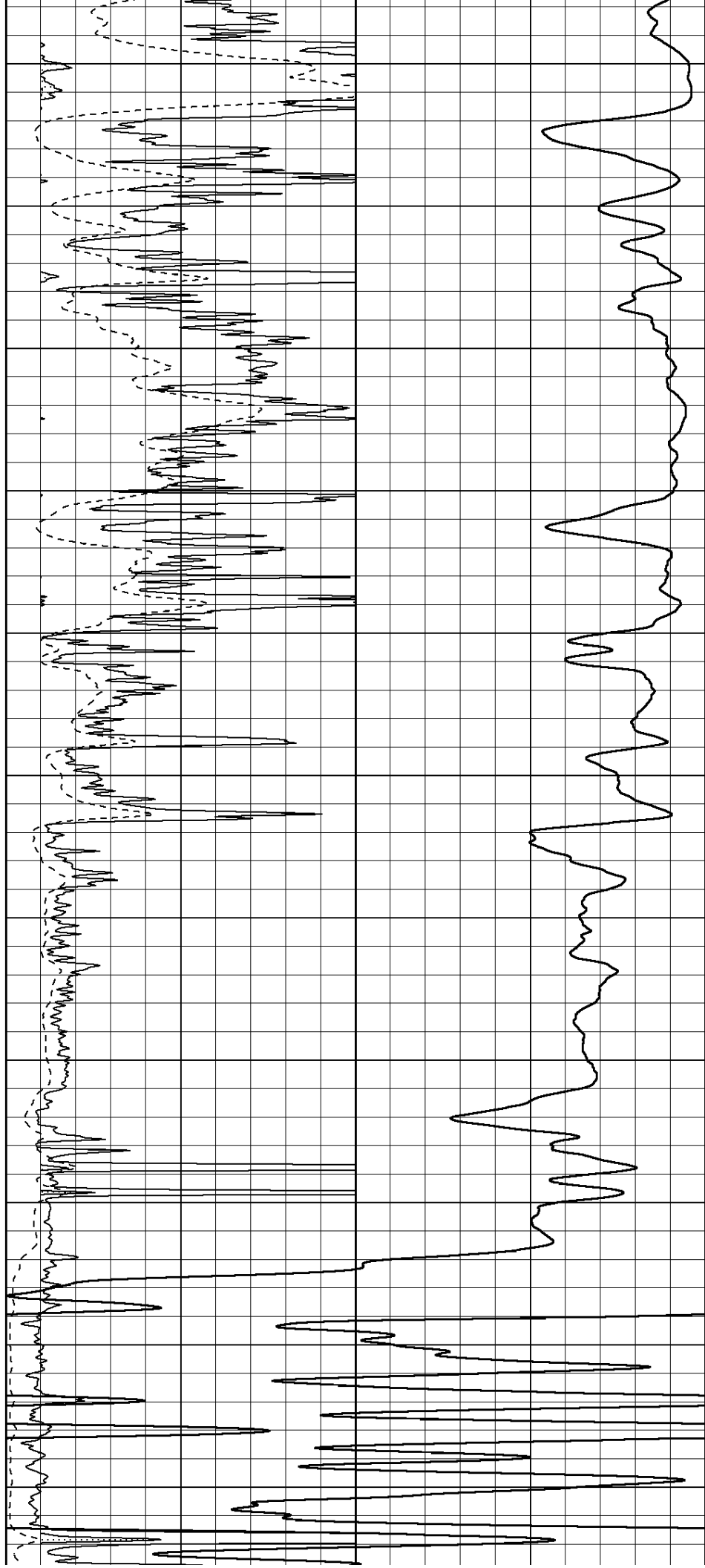
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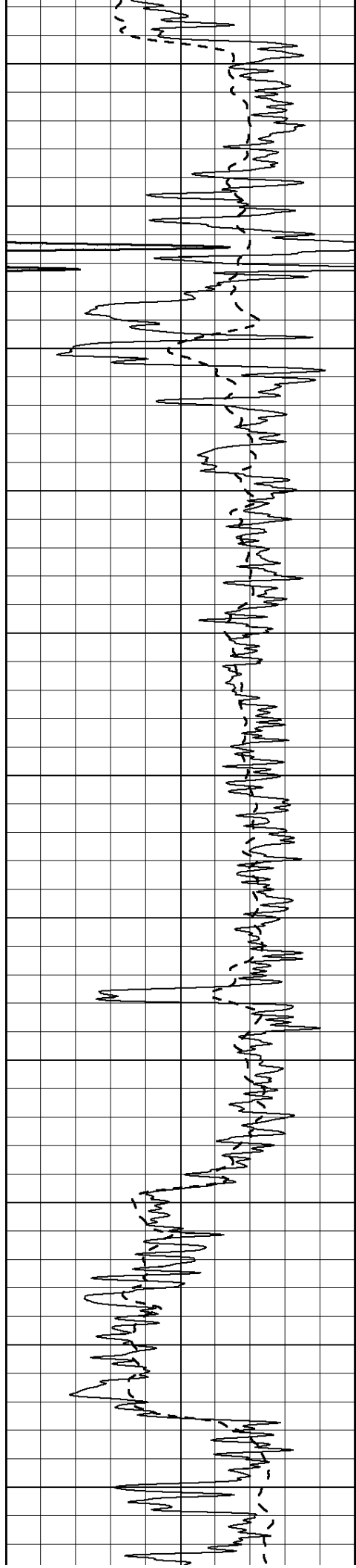
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3750

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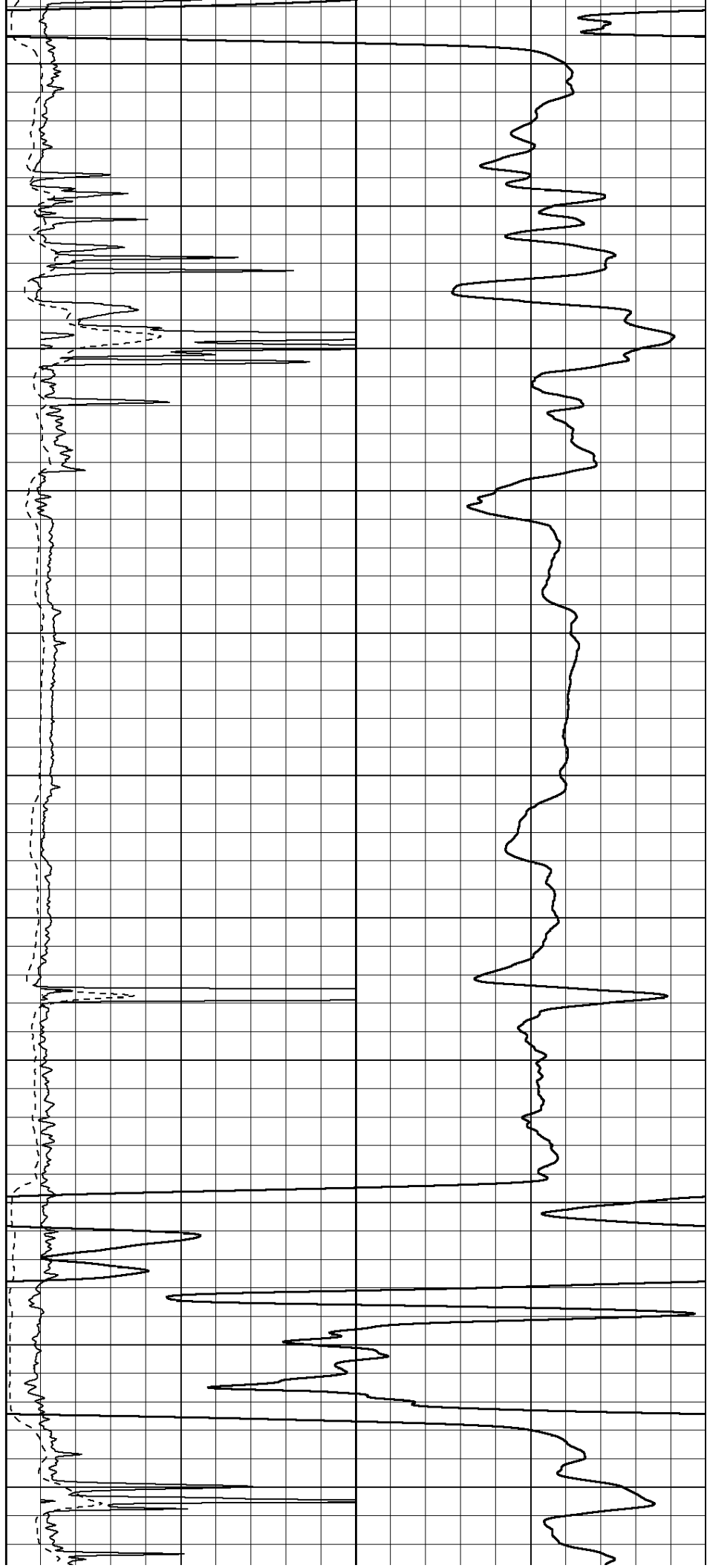
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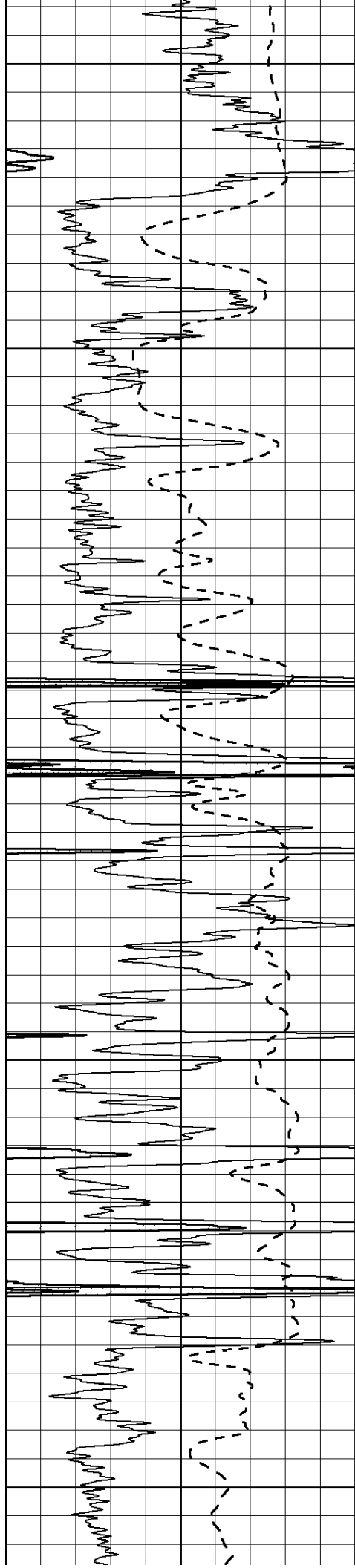
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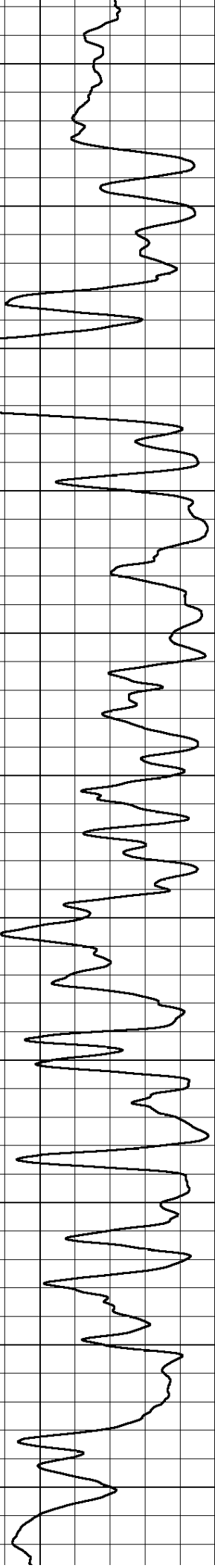
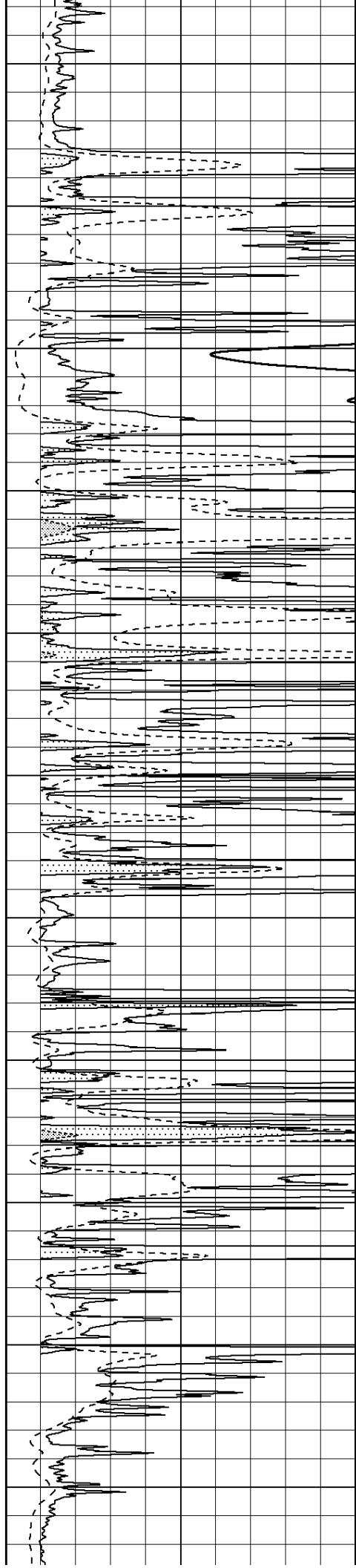
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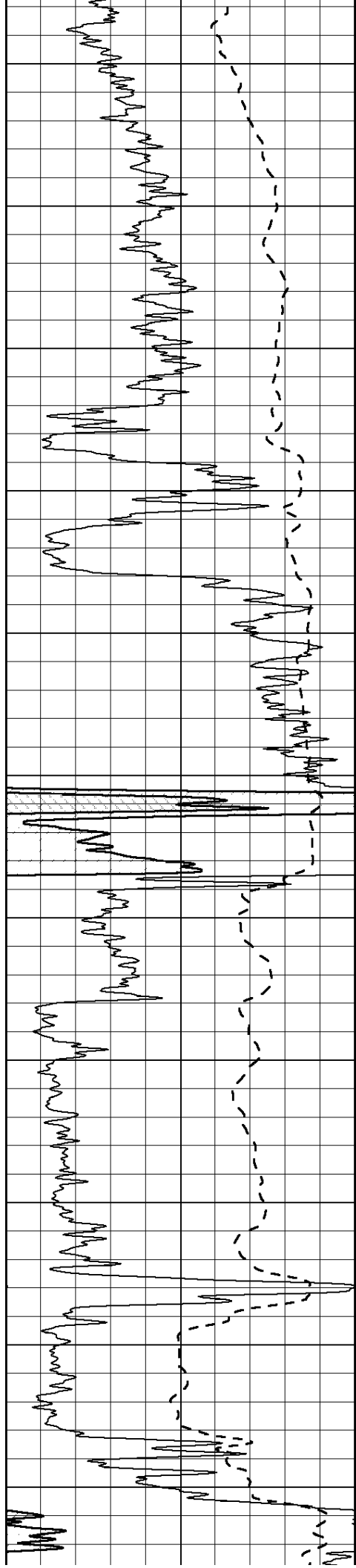
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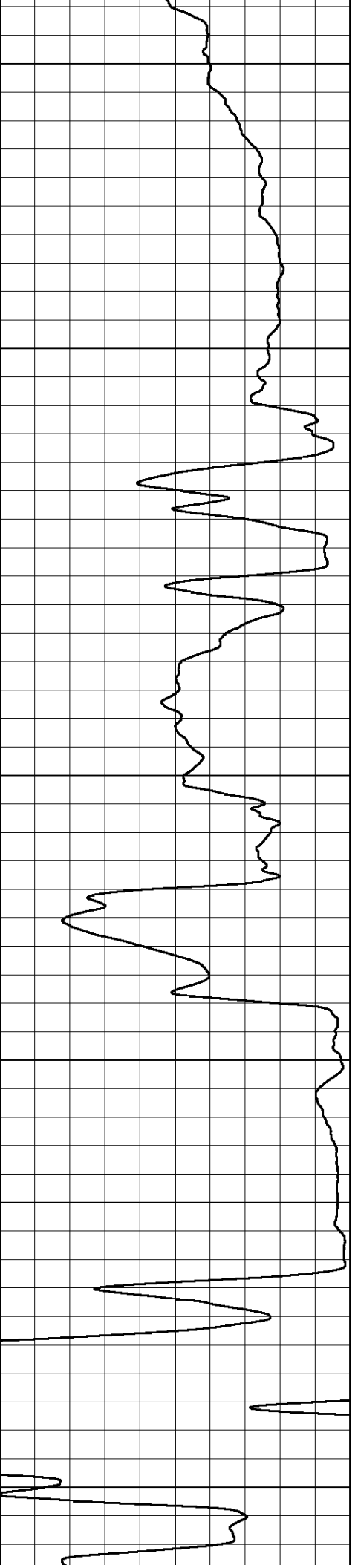
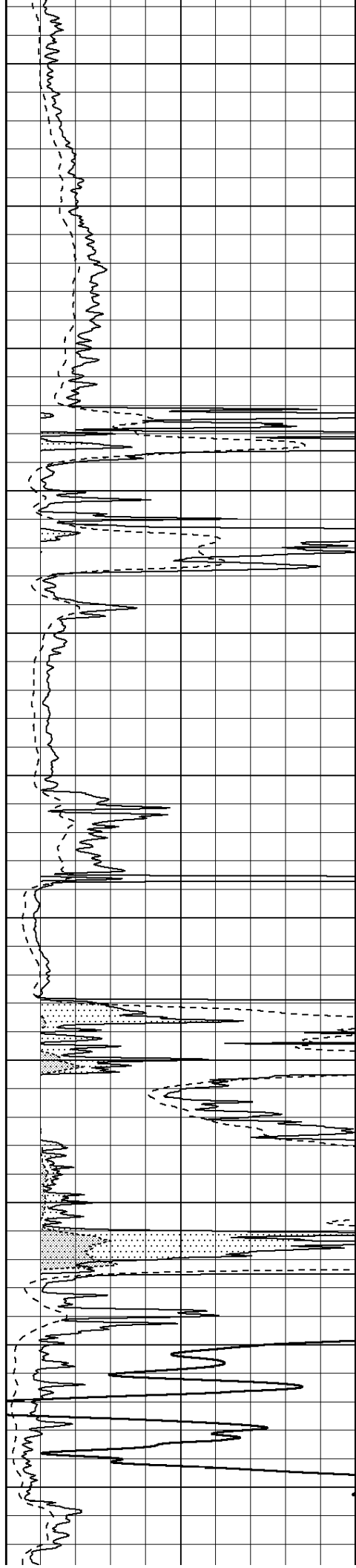


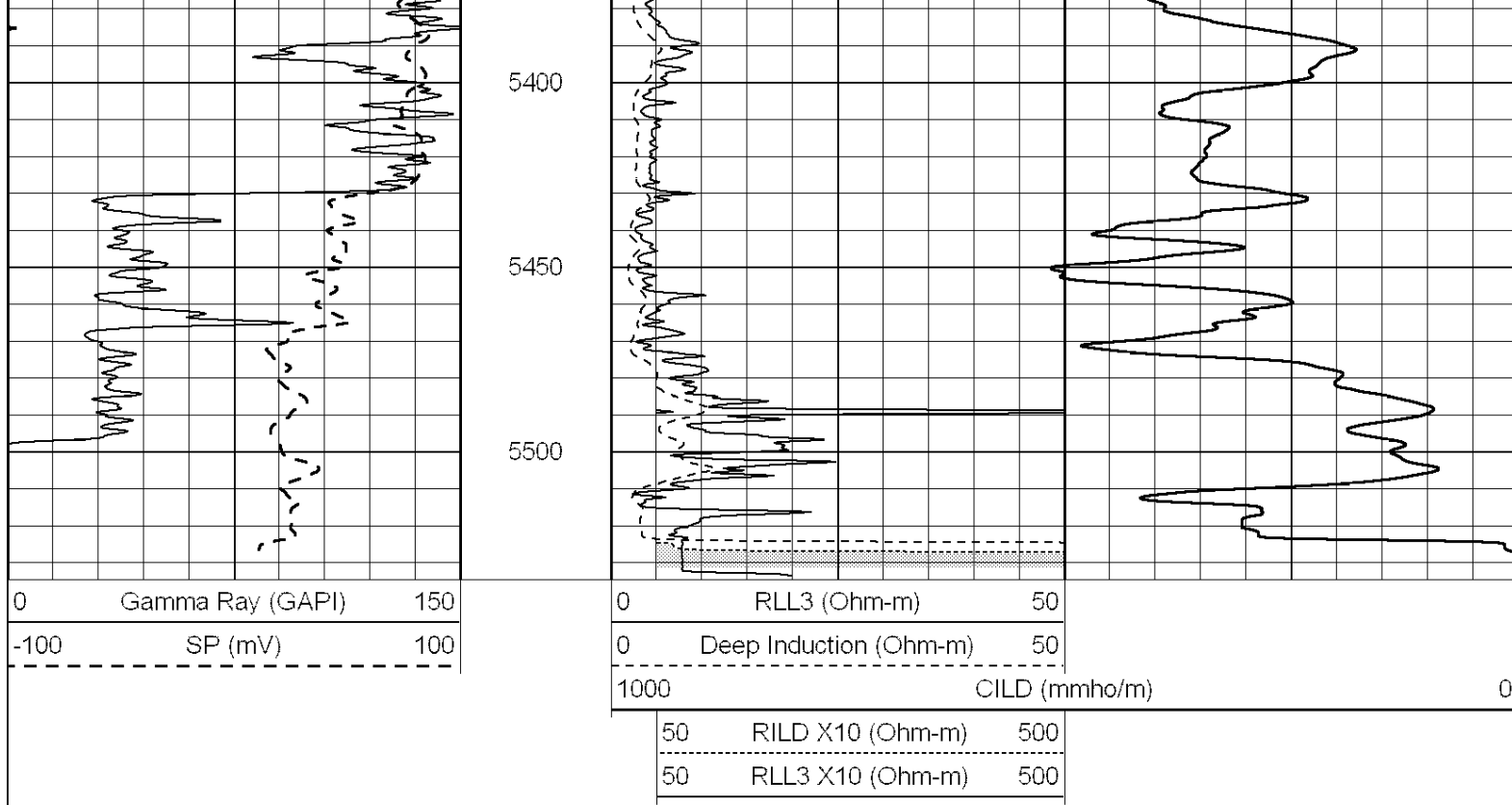
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4800





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5350



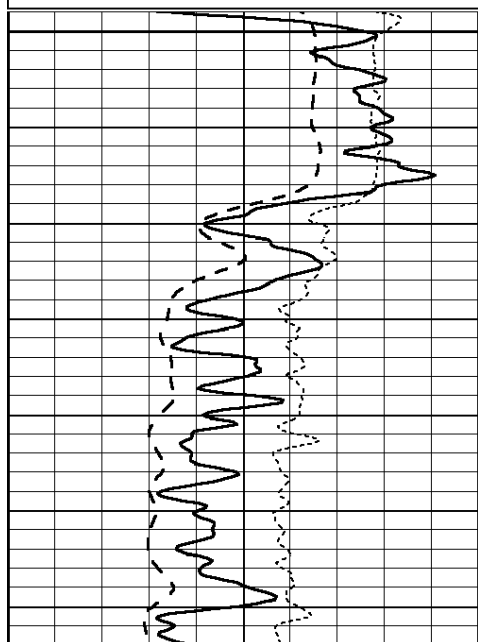


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MAIN SECTION

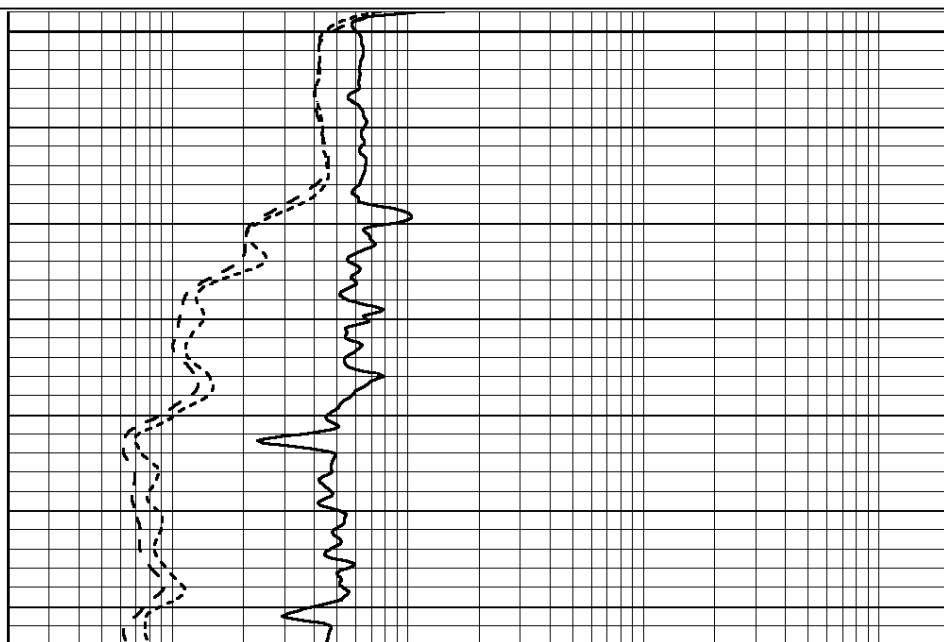
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 Dataset Pathname: pass3.1
 Presentation Format: _dil
 Dataset Creation: Wed Jan 18 01:12:51 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

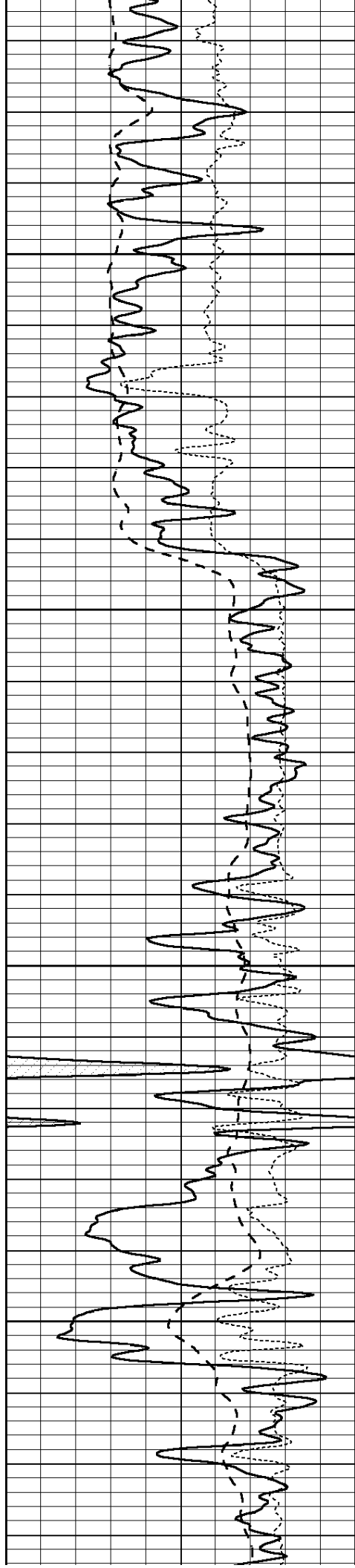
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



3600

3650



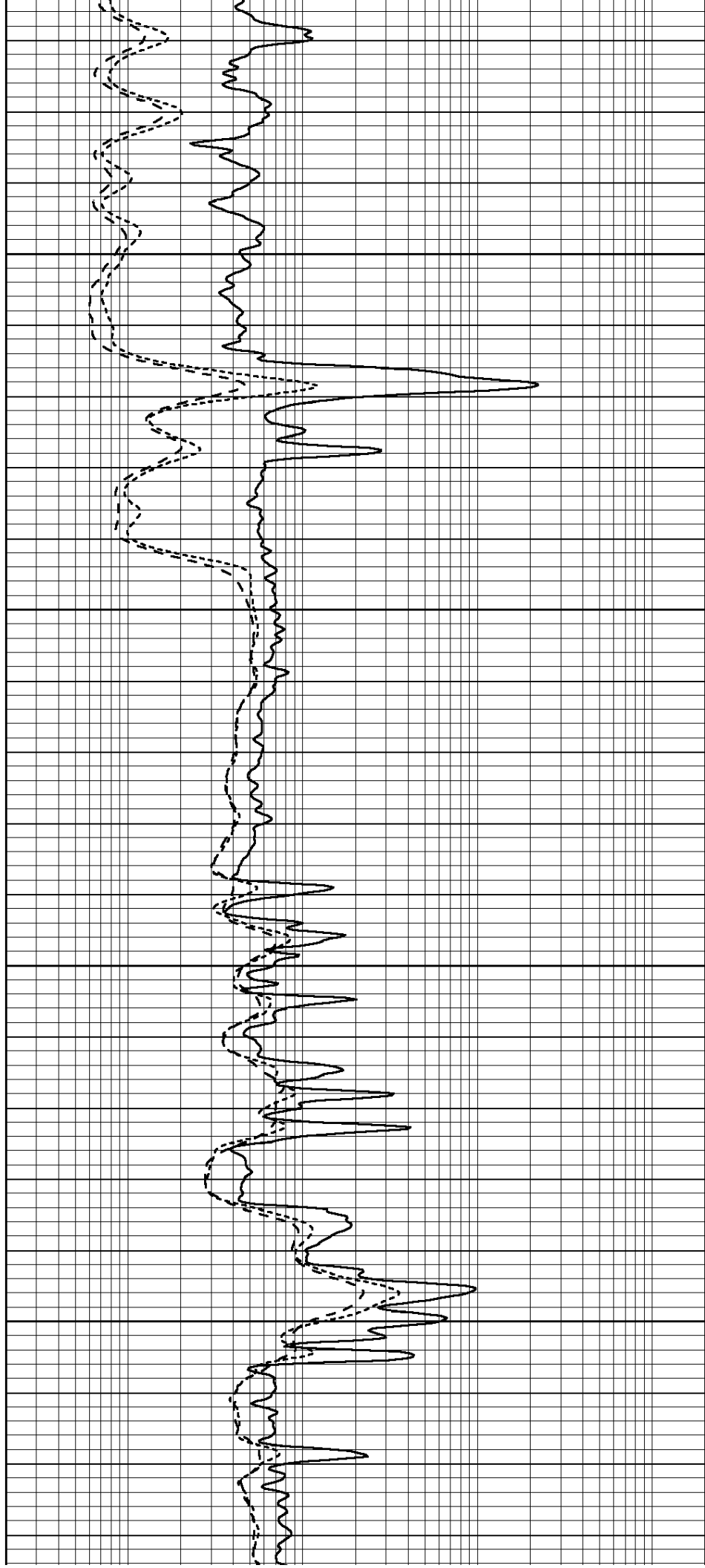


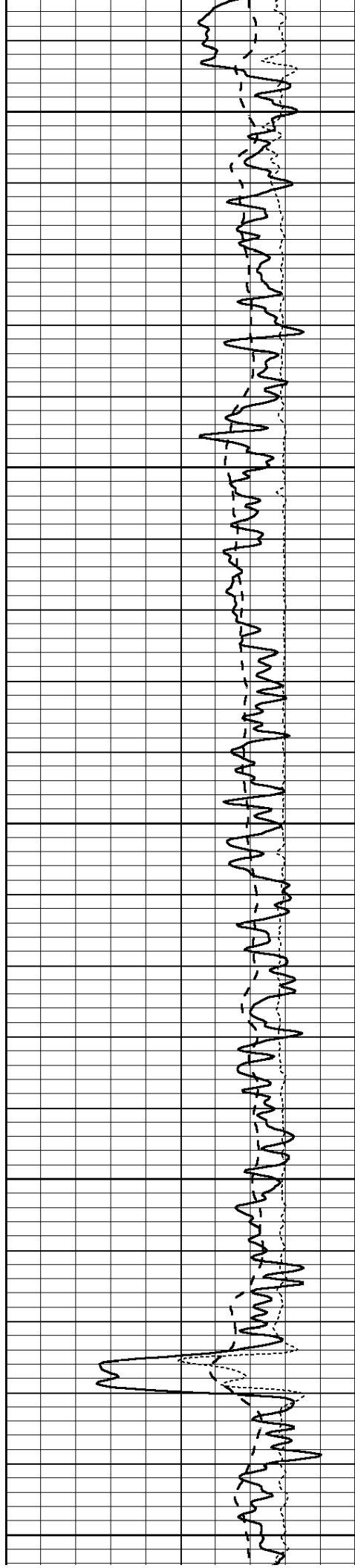
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3850





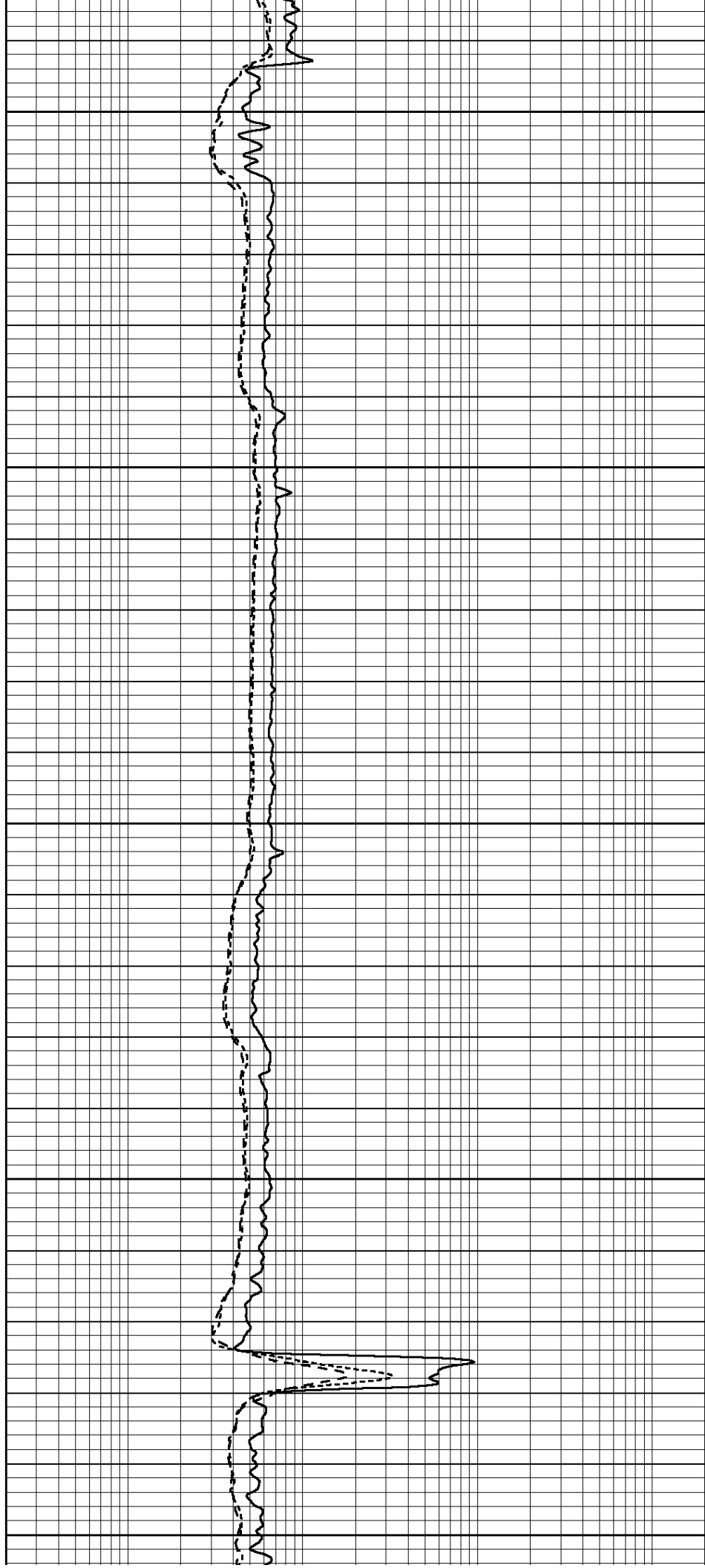
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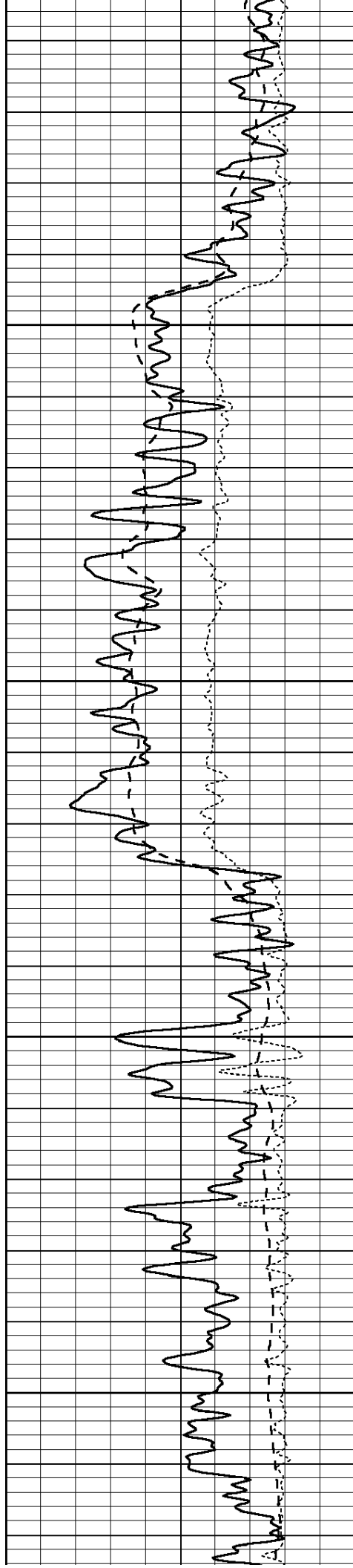
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4000

4050

4100



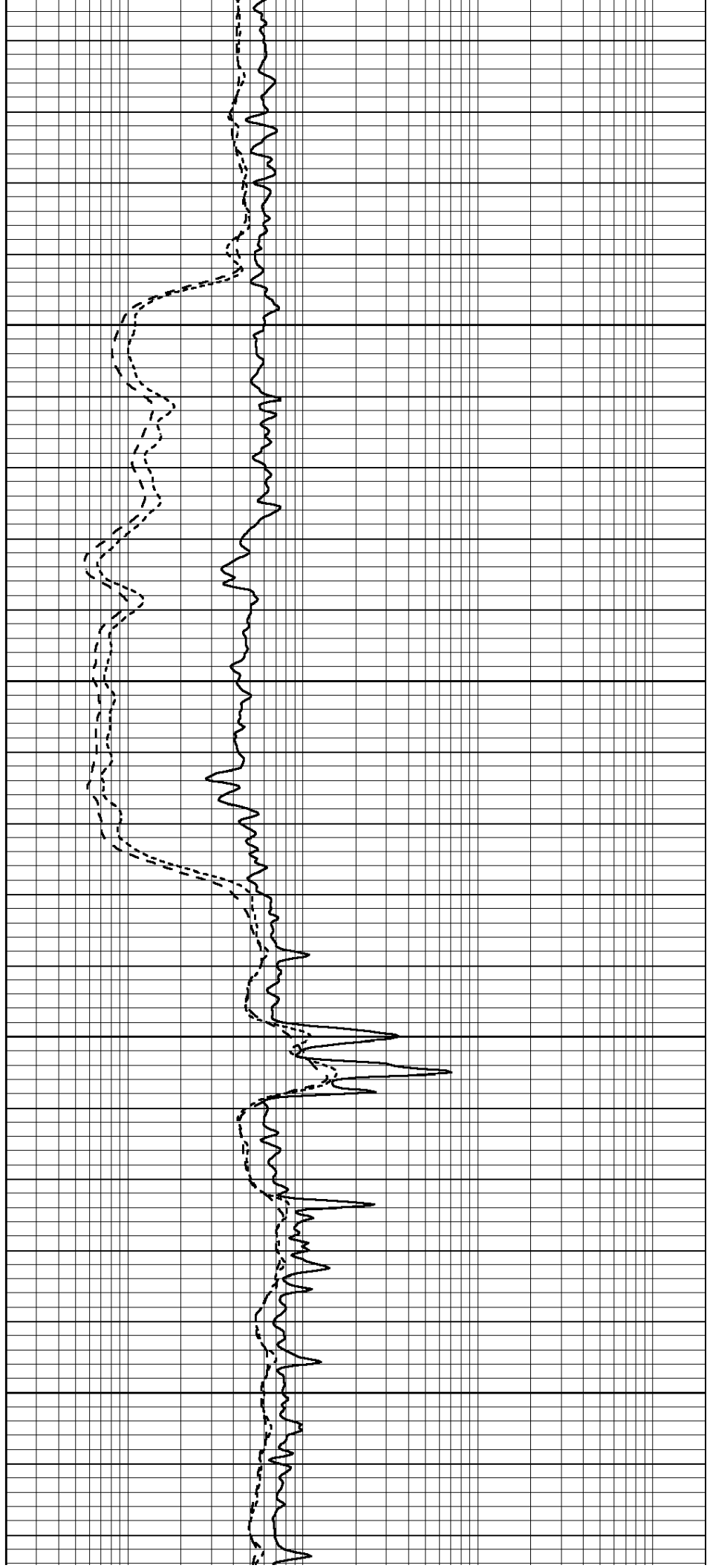


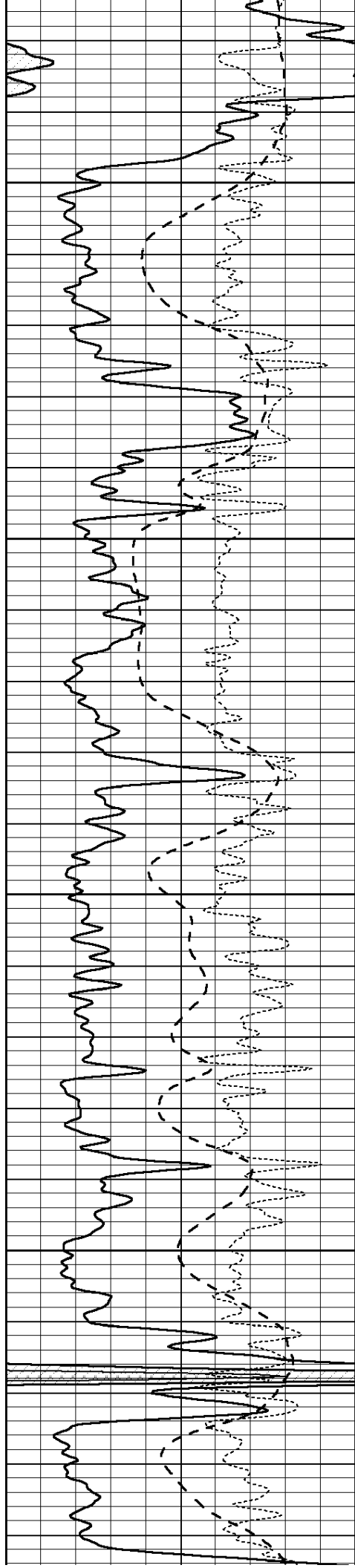
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4200

4250

4300



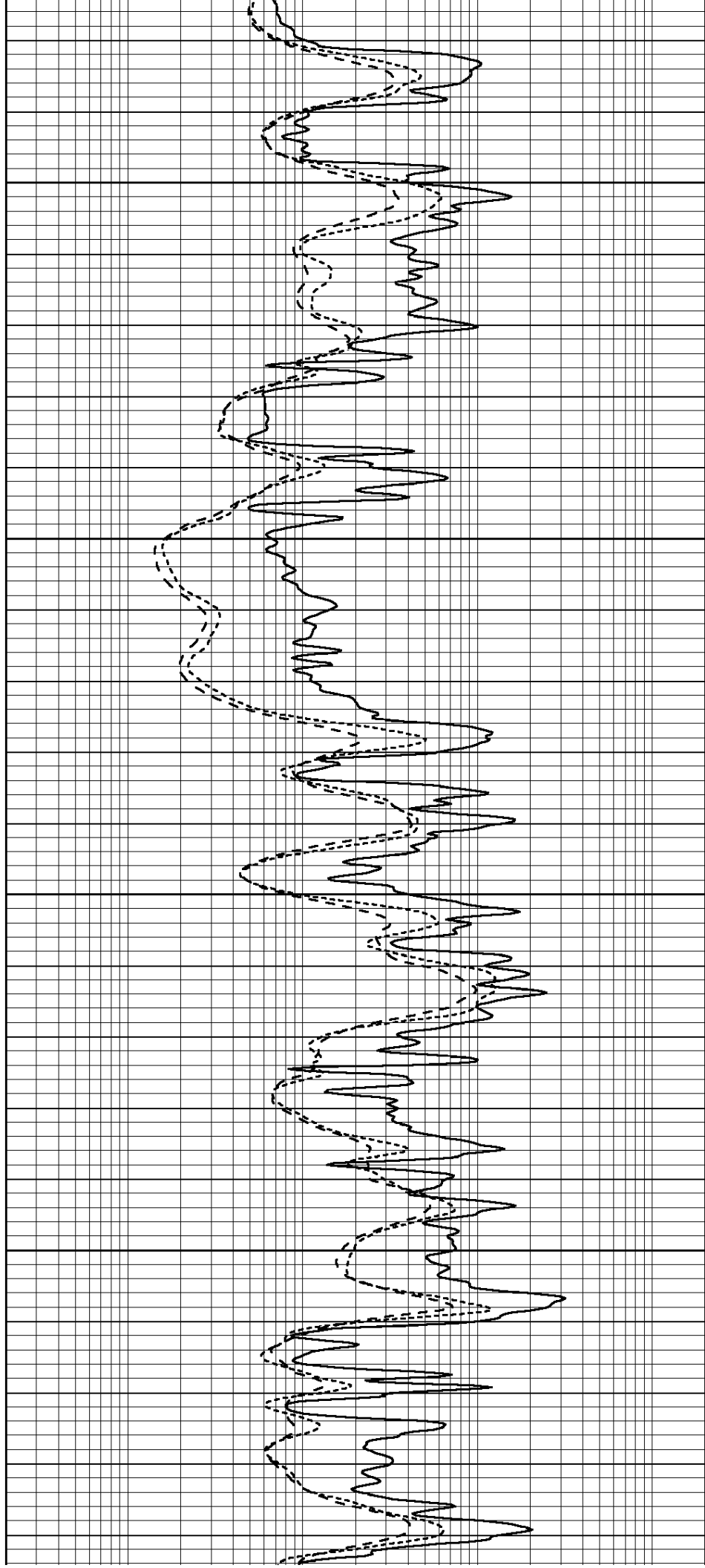


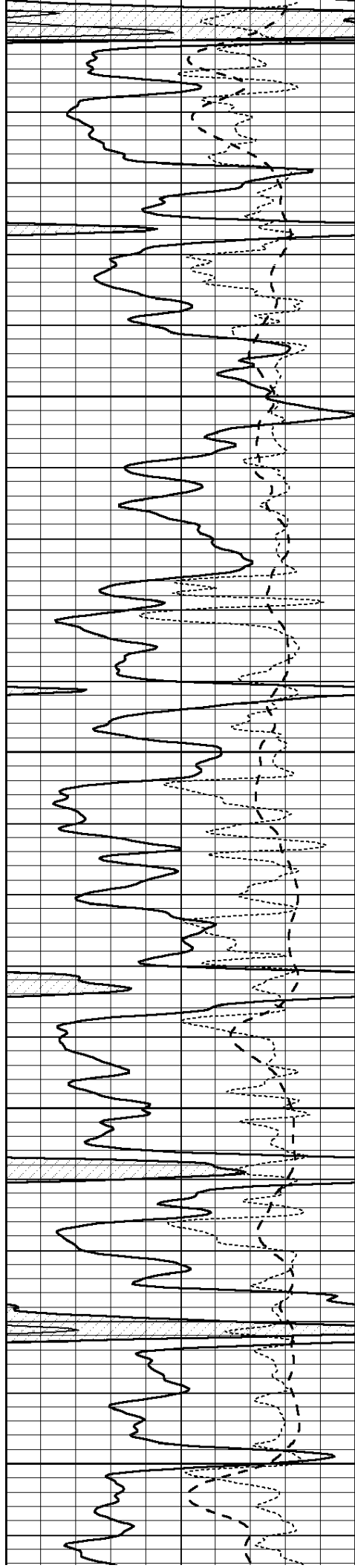
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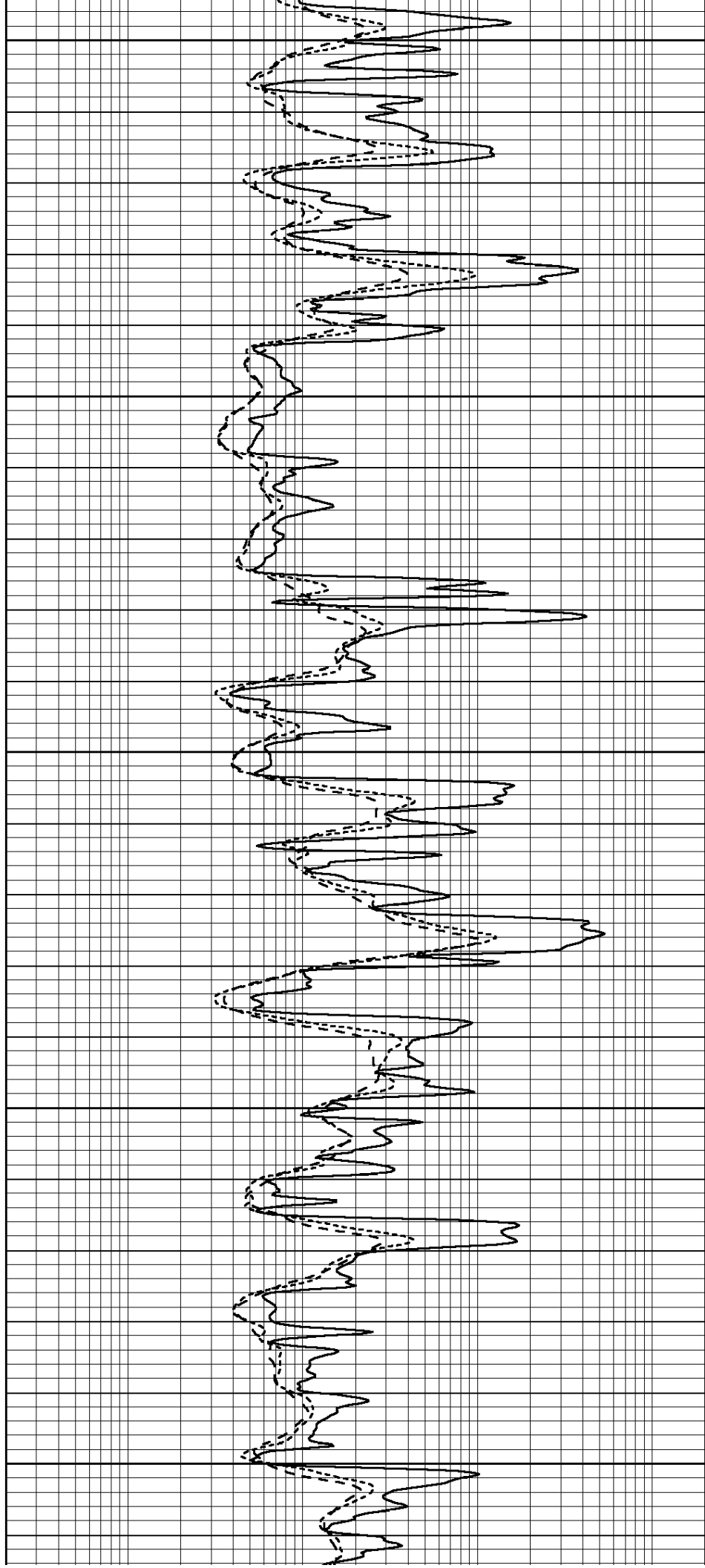
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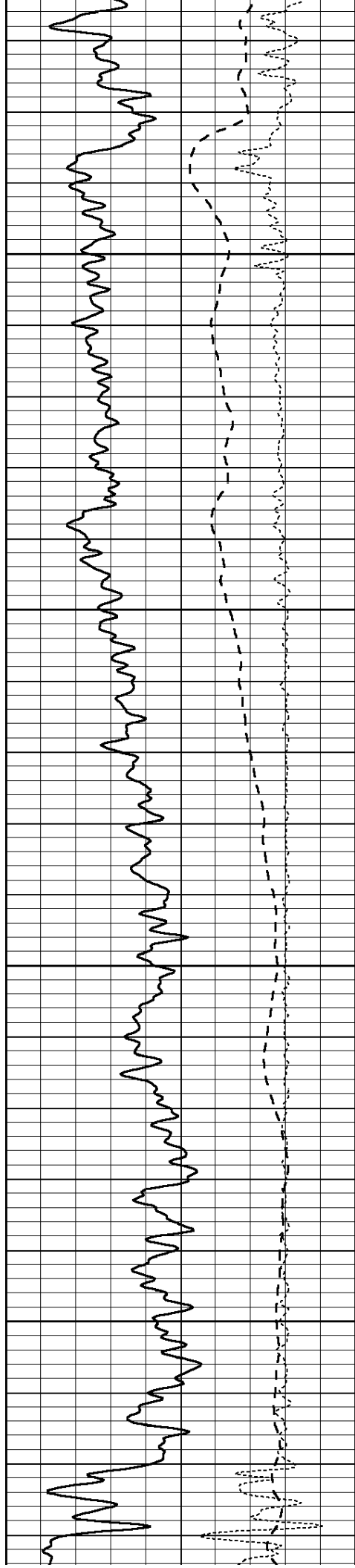
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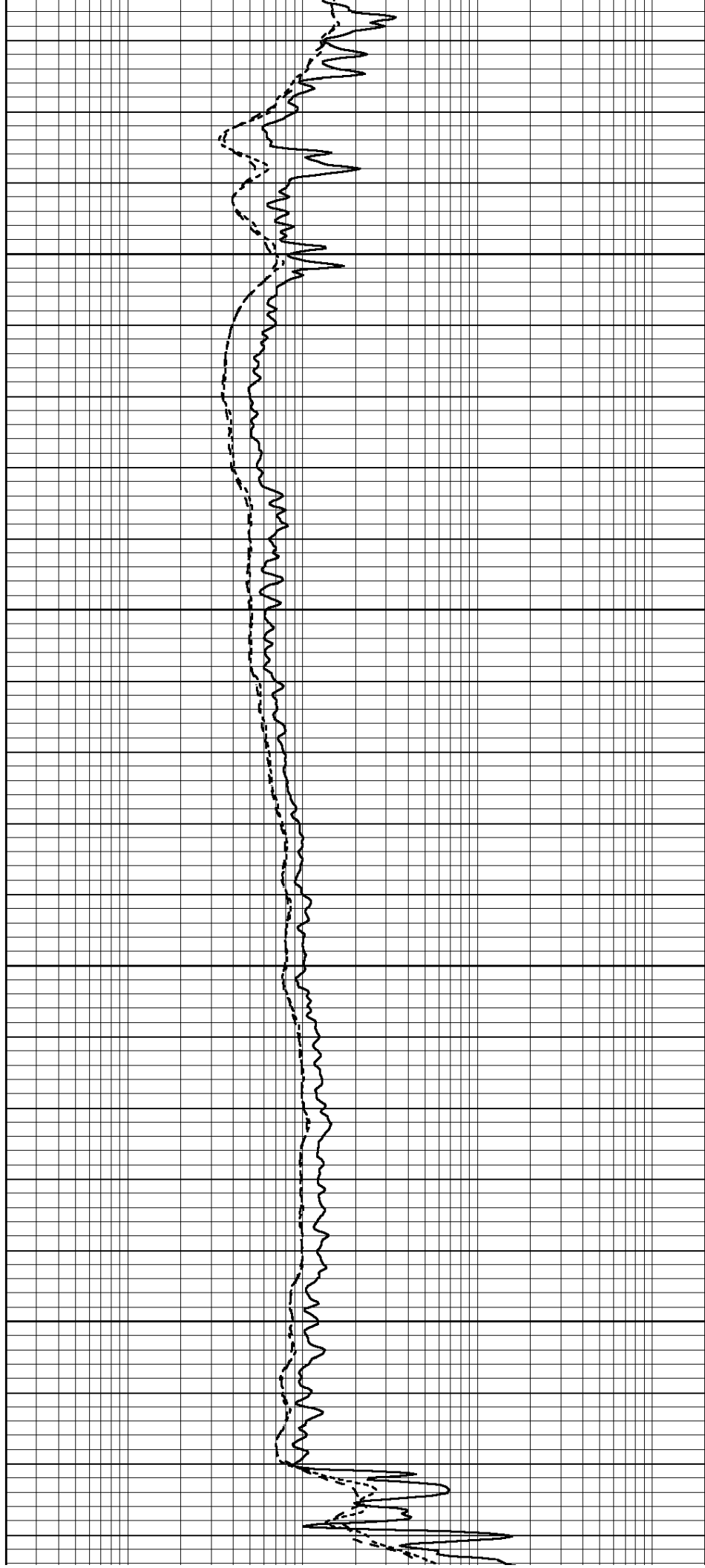


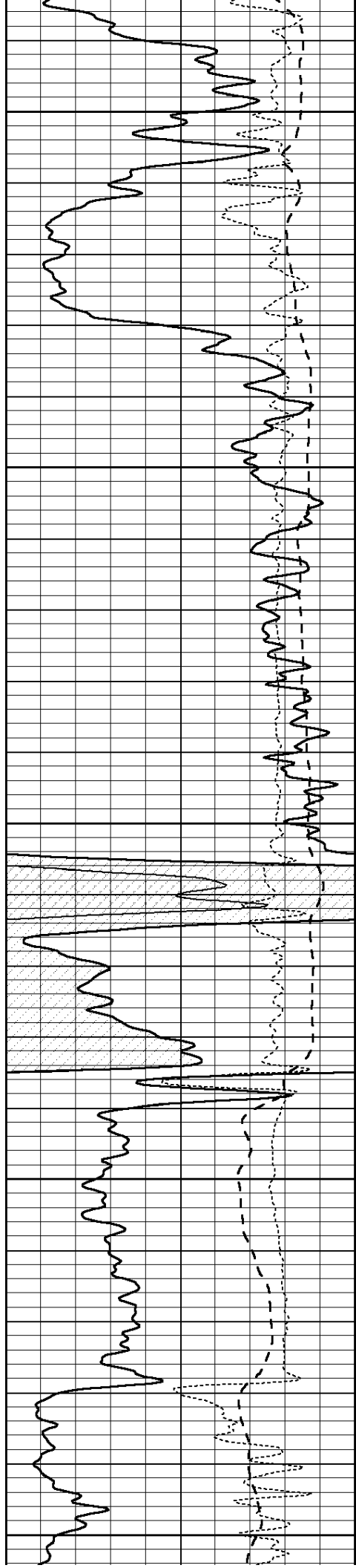
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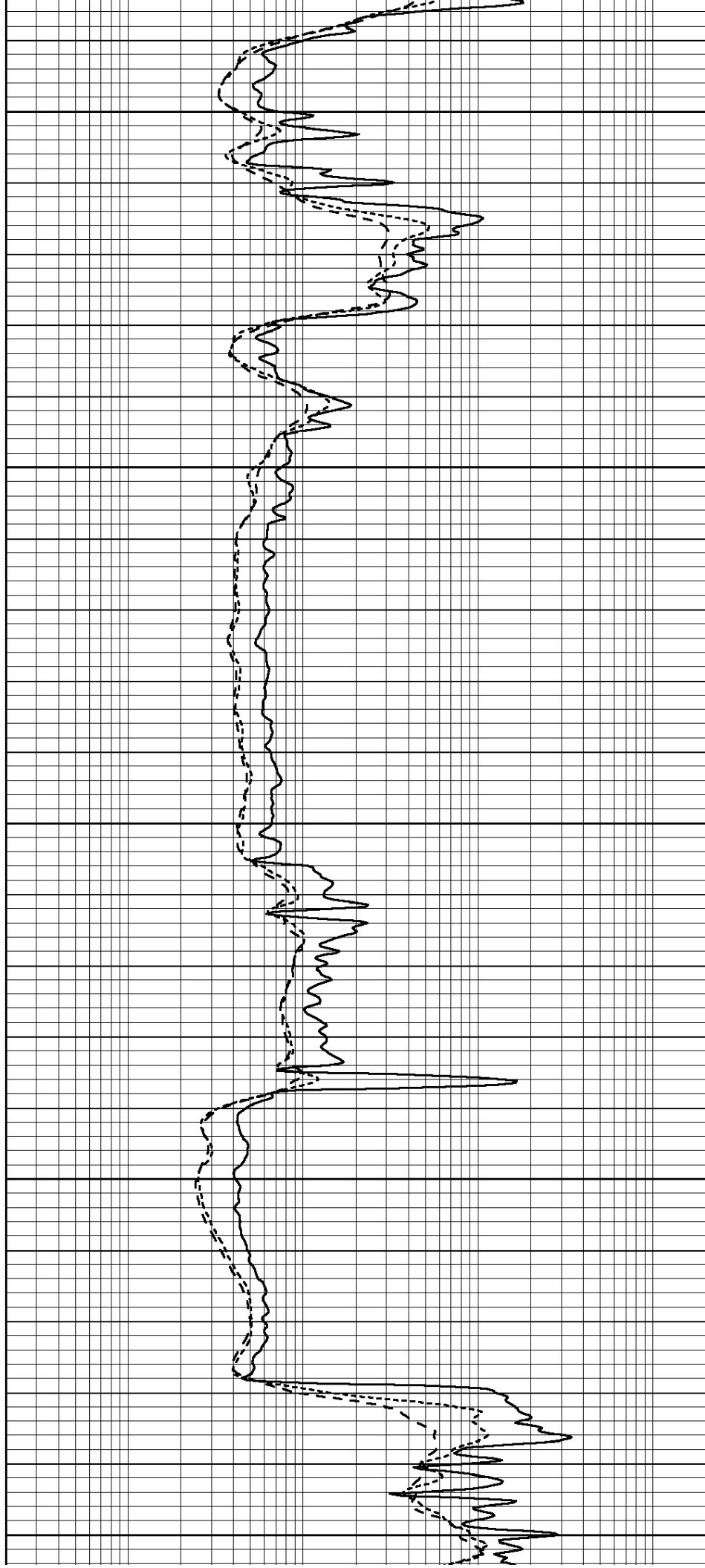
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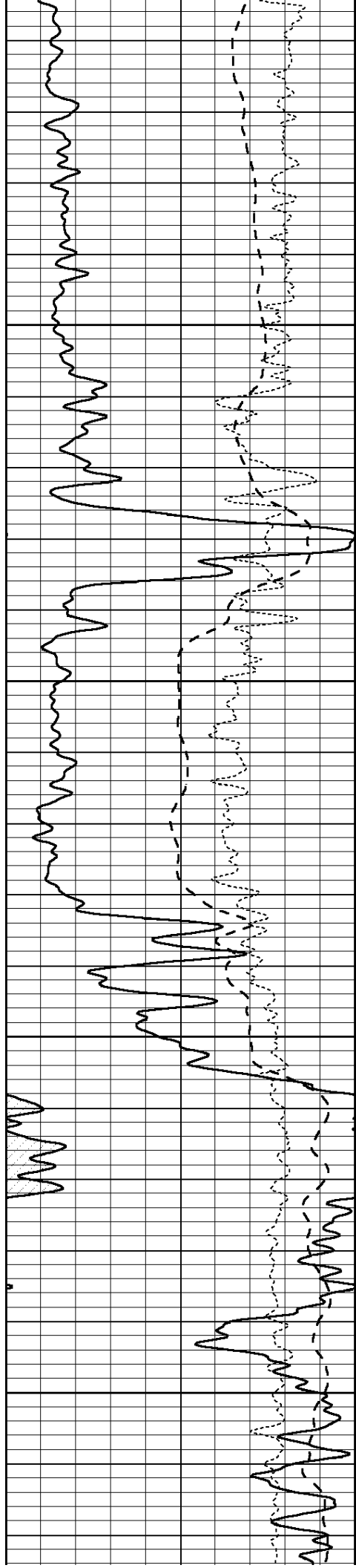
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5150

5200



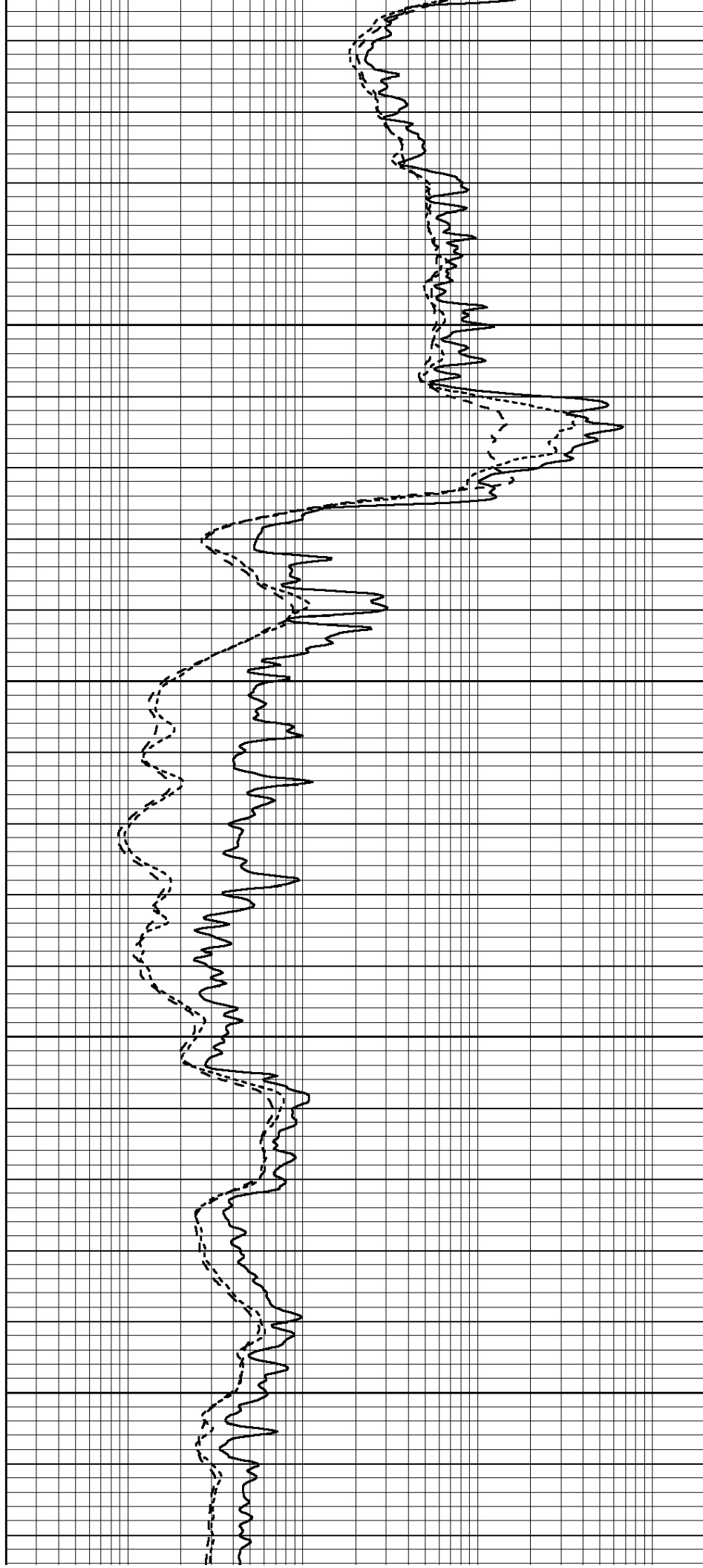


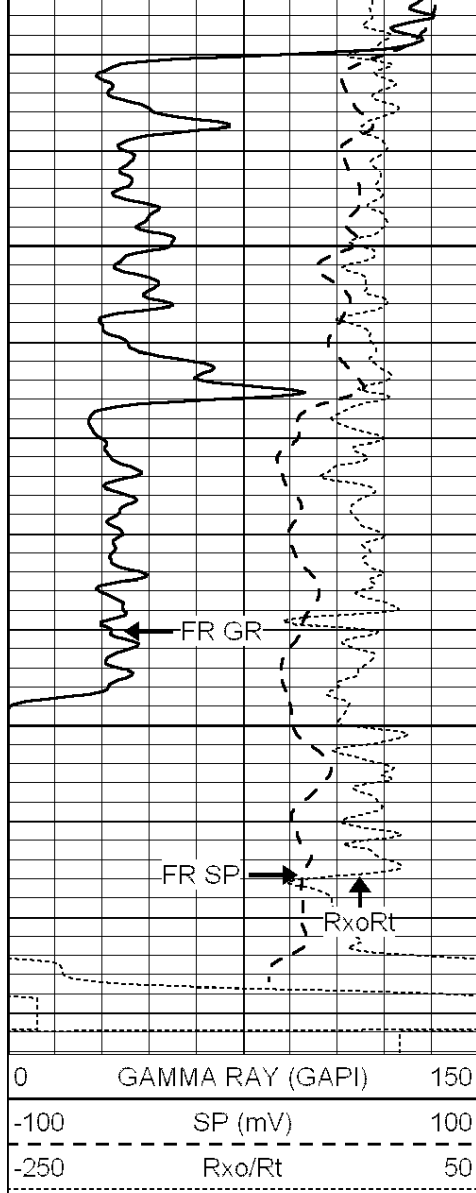
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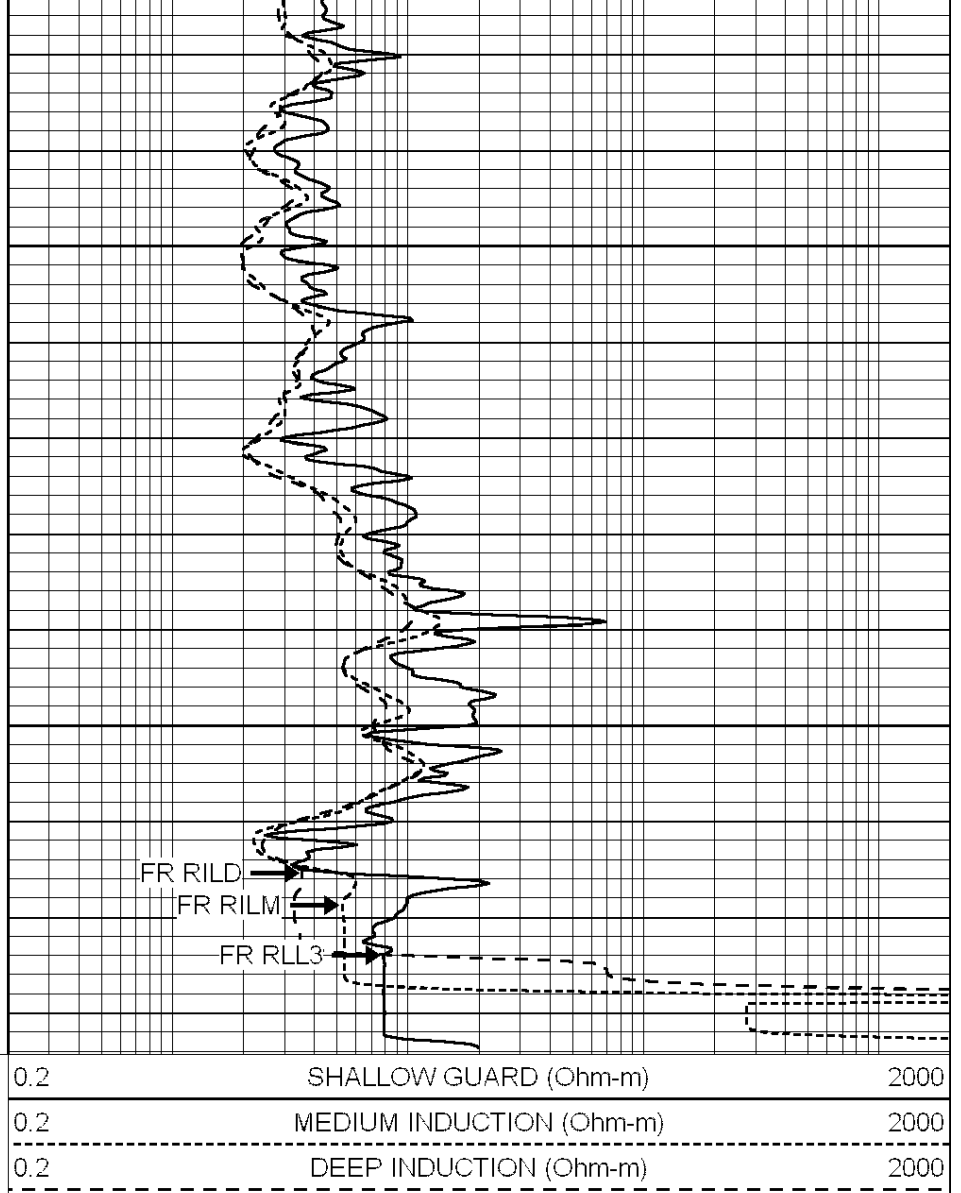




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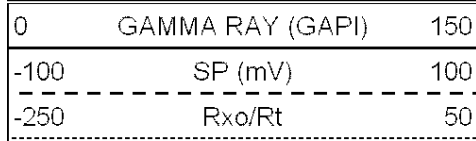
LTD 5526



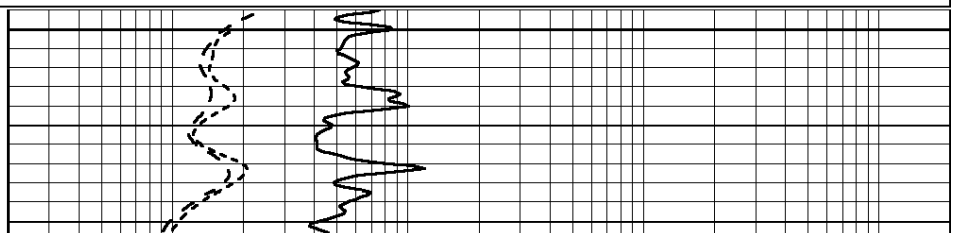
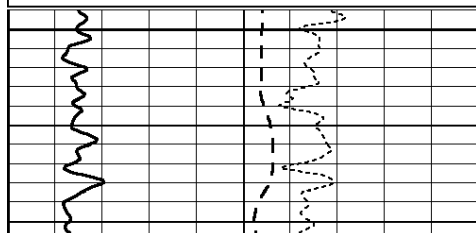
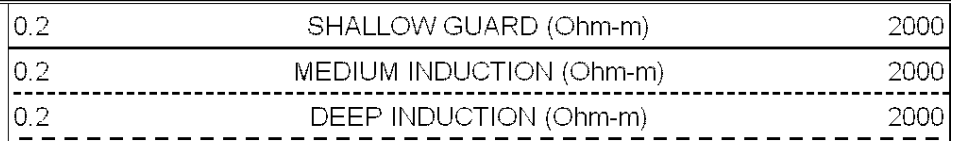
SUPERIOR
Hays,
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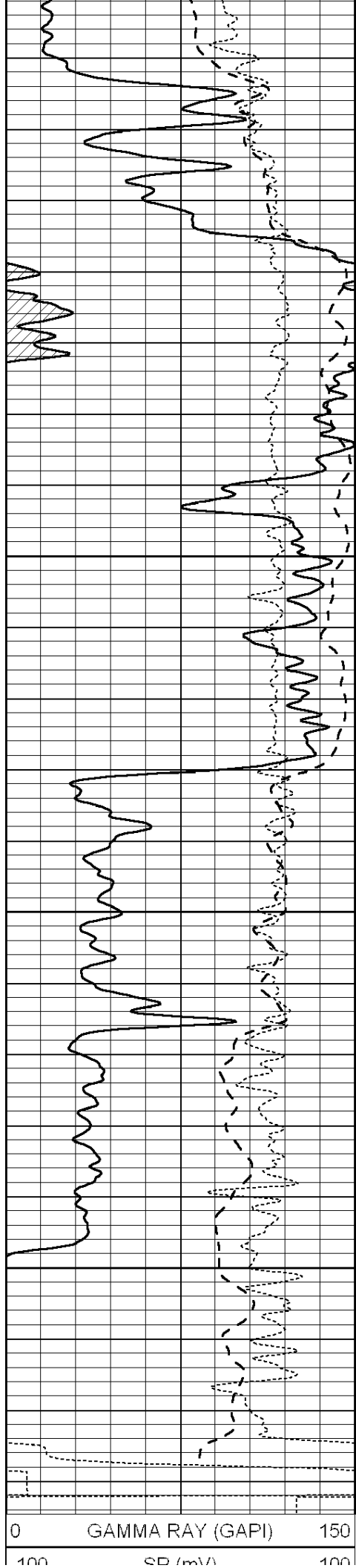
REPEAT SECTION

Database File: 008675ddn.db
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 Presentation Format: _dil
 Dataset Creation: Wed Jan 18 01:07:25 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



5300



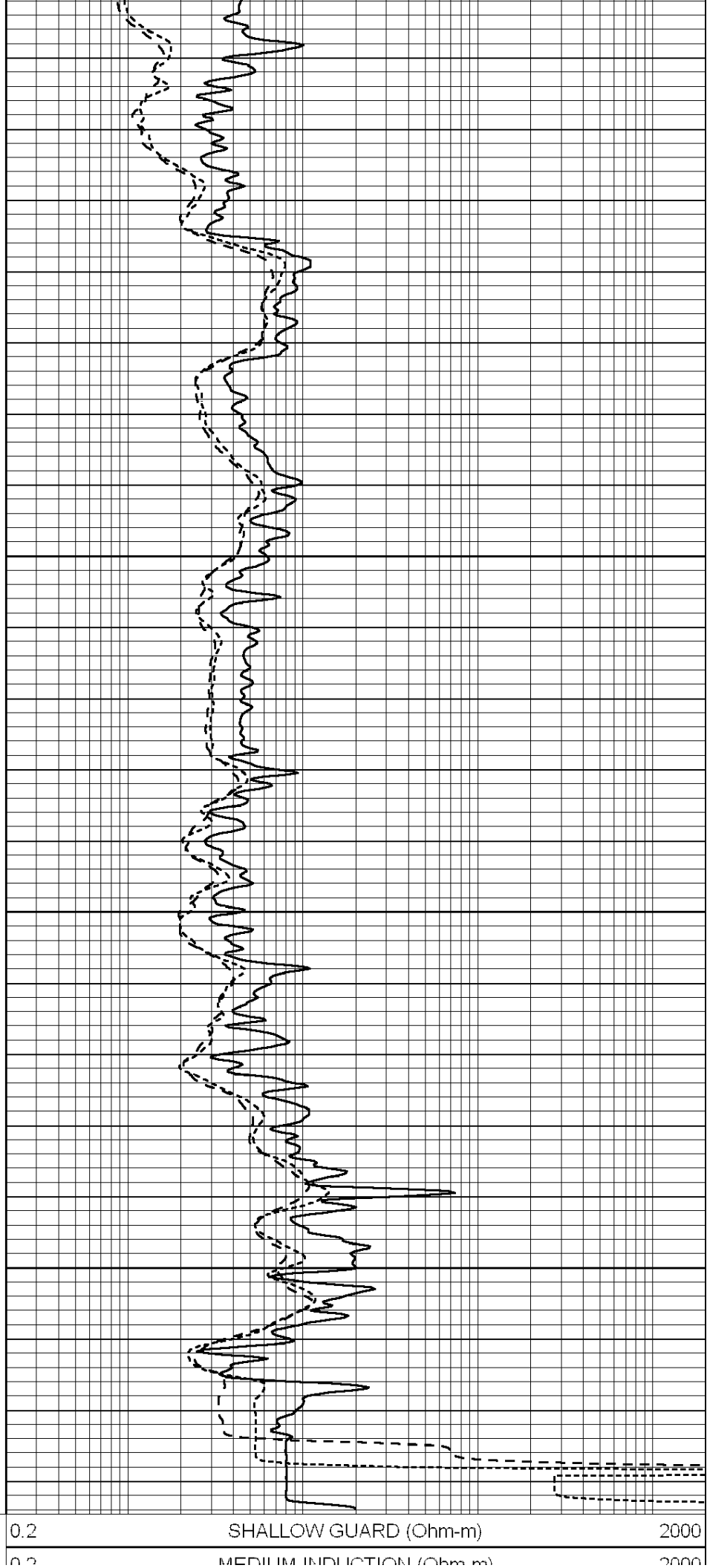


5350

5400

5450

5500



100	SI (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

Calibration Report	
Database File:	008675ddn.db
Dataset Pathname:	pass2.1
Dataset Creation:	Wed Jan 18 01:07:25 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 3.7	Reference 8.0			
High Ref	6.1	14.0			
	Gain: 2.5			Offset: -1.2	
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		