



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	PHILLIPS EXPLORATION CO., LC.	Company	PHILLIPS EXPLORATION COMPANY, LC
Well	SCHOOT #1-7	Well	SCHOOT #1-7
Field		Field	
County	MORRIS	County	MORRIS
State	KANSAS	State	KANSAS
Location:	API # : 15-127-20585-0000 2310 FSL & 2970' FEL NE - NE - SW	Other Services CDL/CNL MEL	
Permanent Datum	GROUND LEVEL	Elevation	1383
Log Measured From	KELLY BUSHING 10' A.G.L.	Elevation	K.B. 1393 D.F. 1391 G.L. 1383
Drilling Measured From	KELLY BUSHING		
SEC 7	TWP 15S	RGE 8E	
Date	6-17-10		
Run Number	ONE		
Depth Driller	2750		
Depth Logger	2747		
Bottom Logged Interval	2745		
Top Log Interval	0		
Casing Driller	8 5/8" @ 229		
Casing Logger	227		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 250 PPM	
Density / Viscosity	9.3/42		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.36 @ 83F		
Rmf @ Meas. Temp	.27 @ 83F		
Rmc @ Meas. Temp	.43 @ 83F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.26 @ 114F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	680		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEMEG		
Witnessed By	BILL STOUT		

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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.

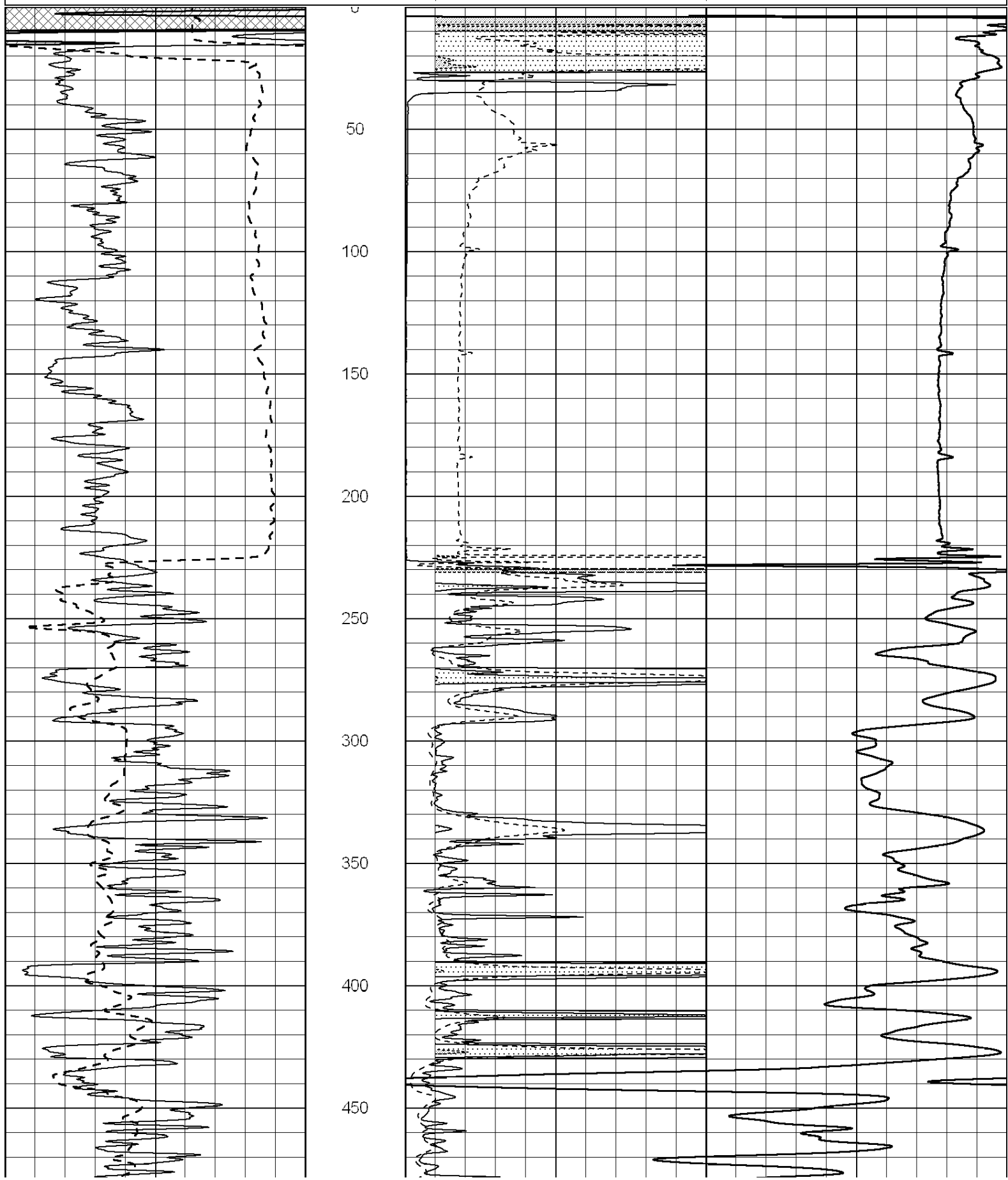
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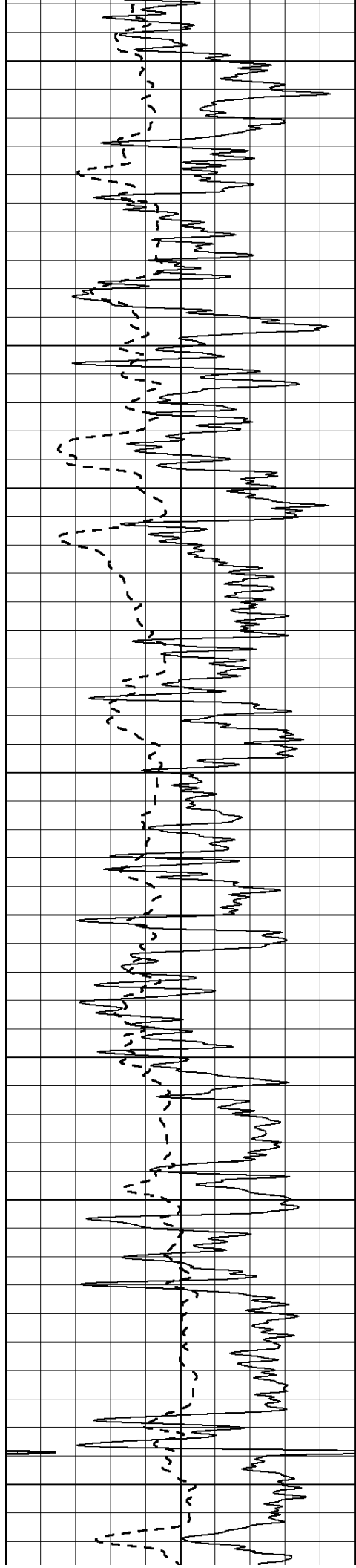
THANK YOU FOR USING SUPERIOR WELL SERVICES HAYS, KANSAS (785)628-6395
DIRECTIONS
INTERSECTION OF I-70 & EXIT 313 - SOUTH TO MORRIS COUNTY LINE - SOUTH TO RD K
4 MILES WEST - 1/2 MILE NORTH - EAST INTO

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

0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

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





500

550

600

650

700

750

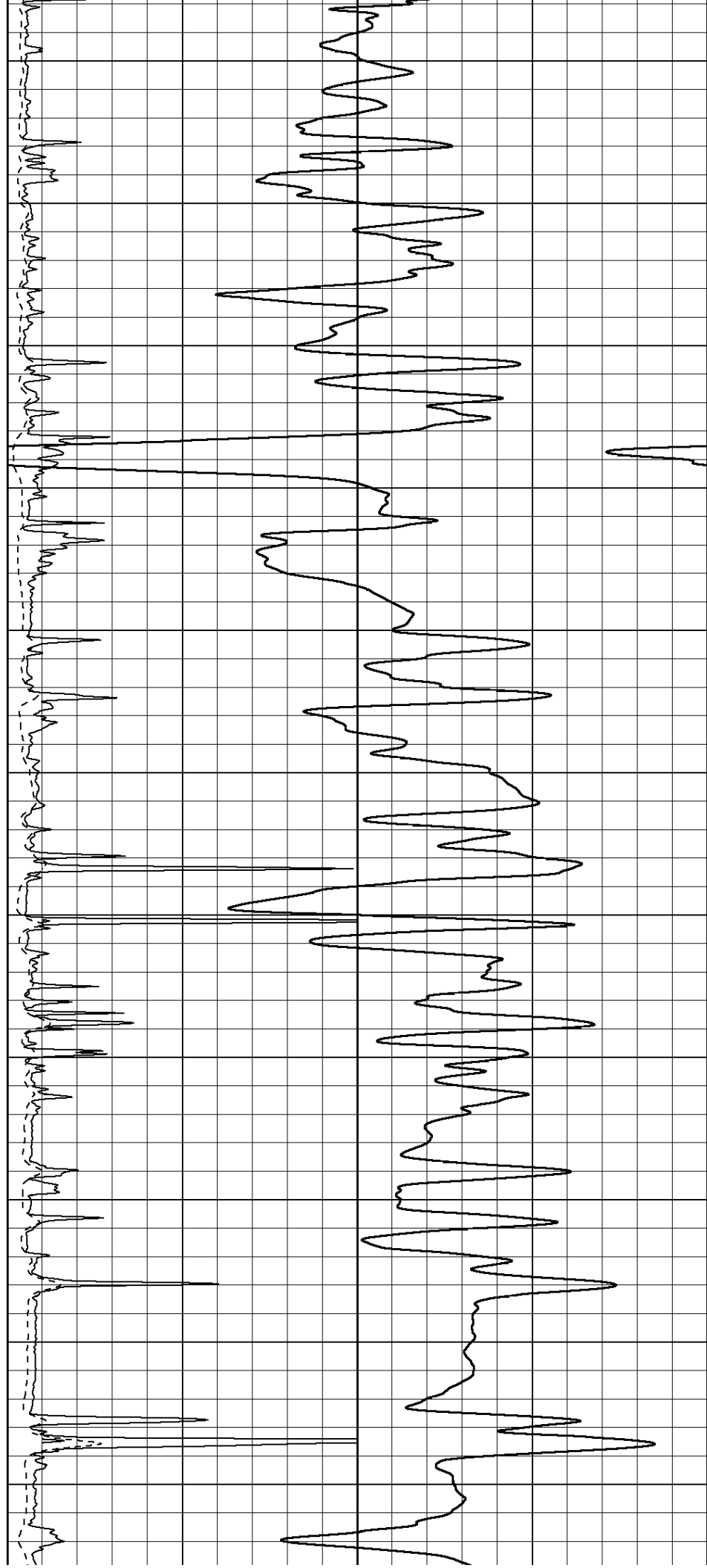
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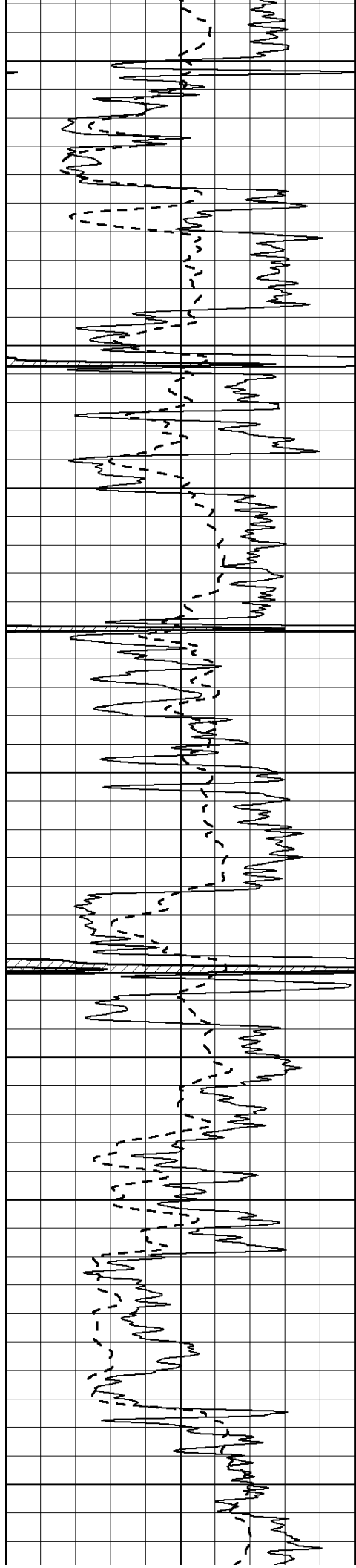
850

900

950

1000





1050

1100

1150

1200

1250

1300

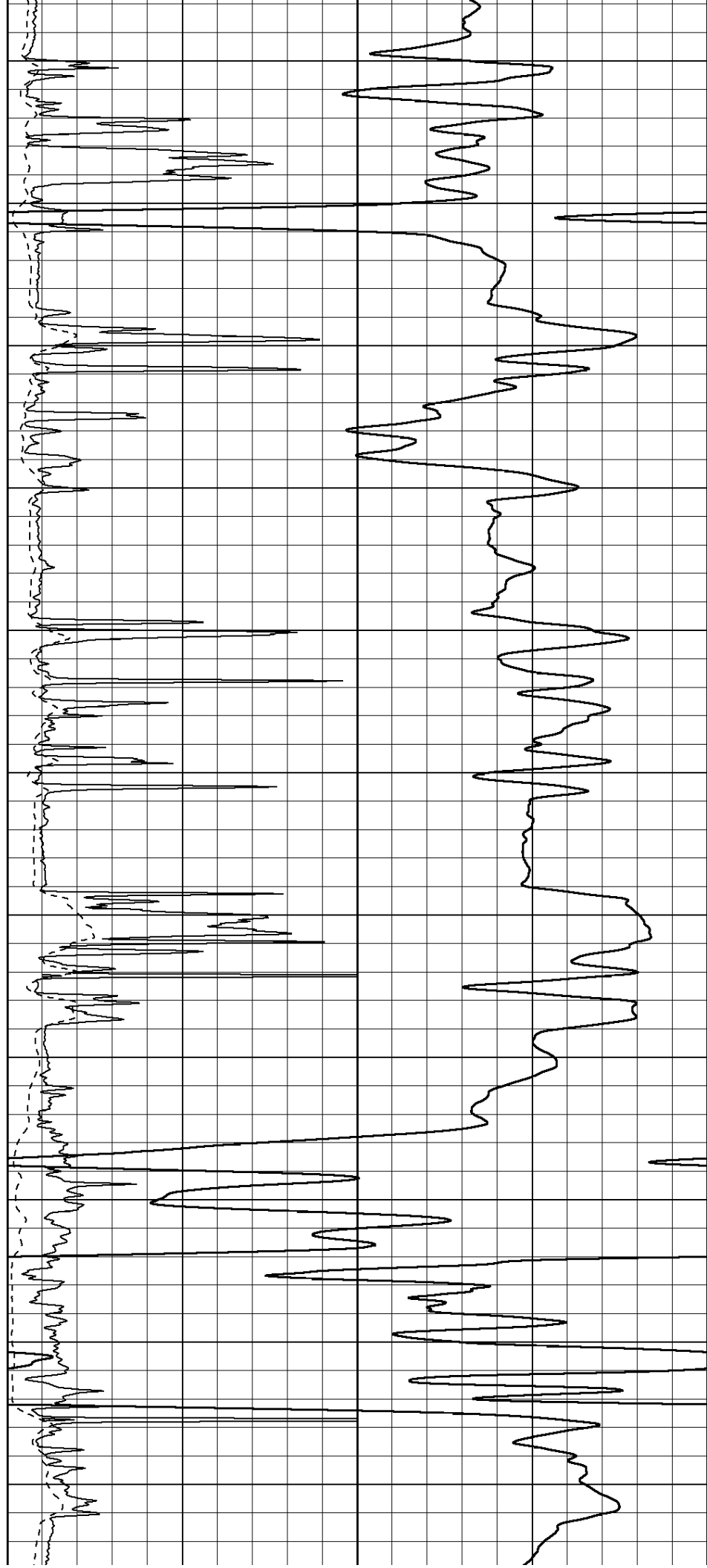
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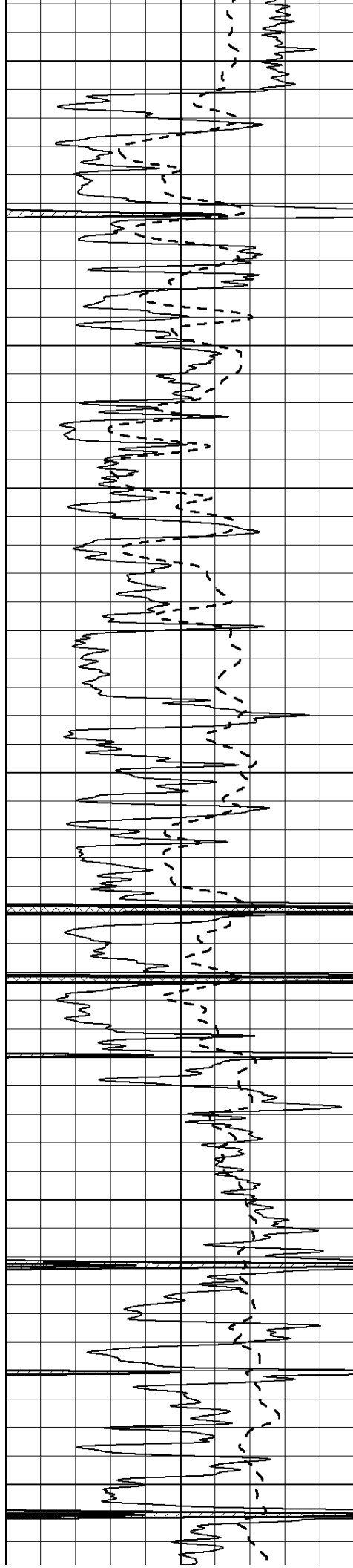
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1450

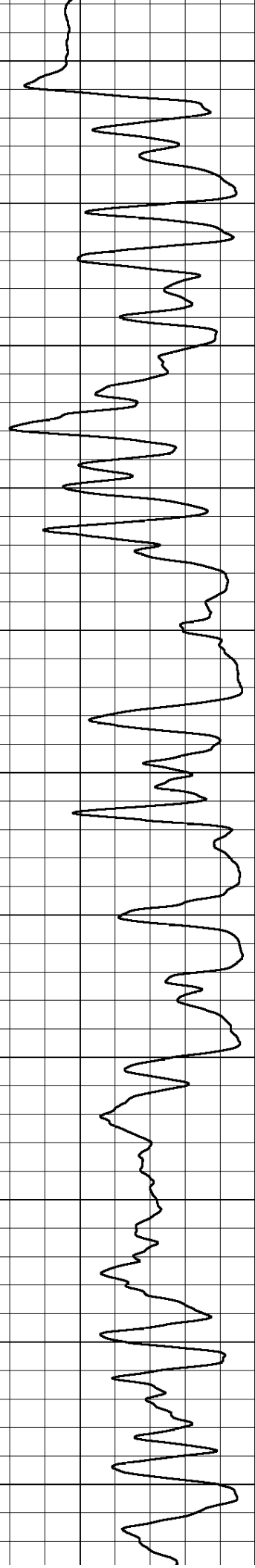
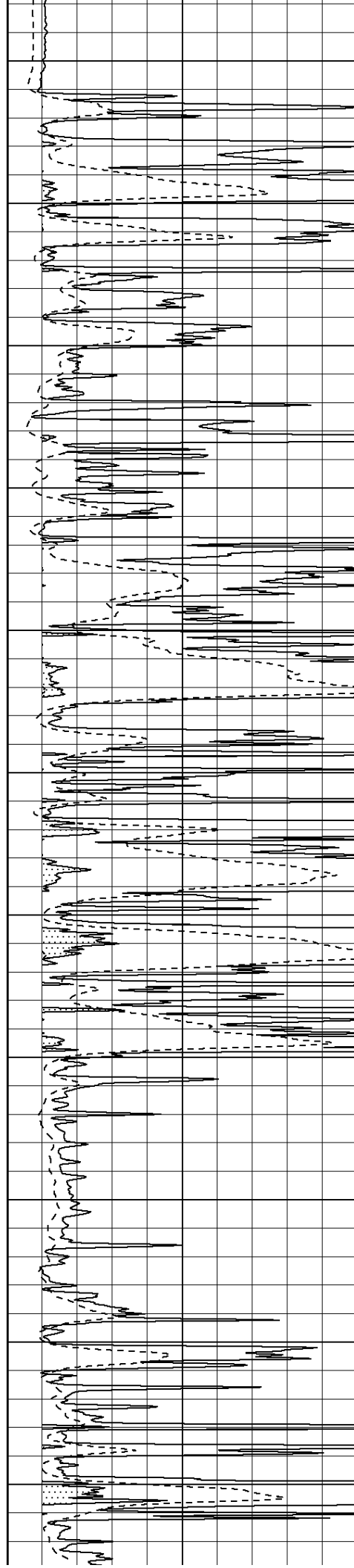
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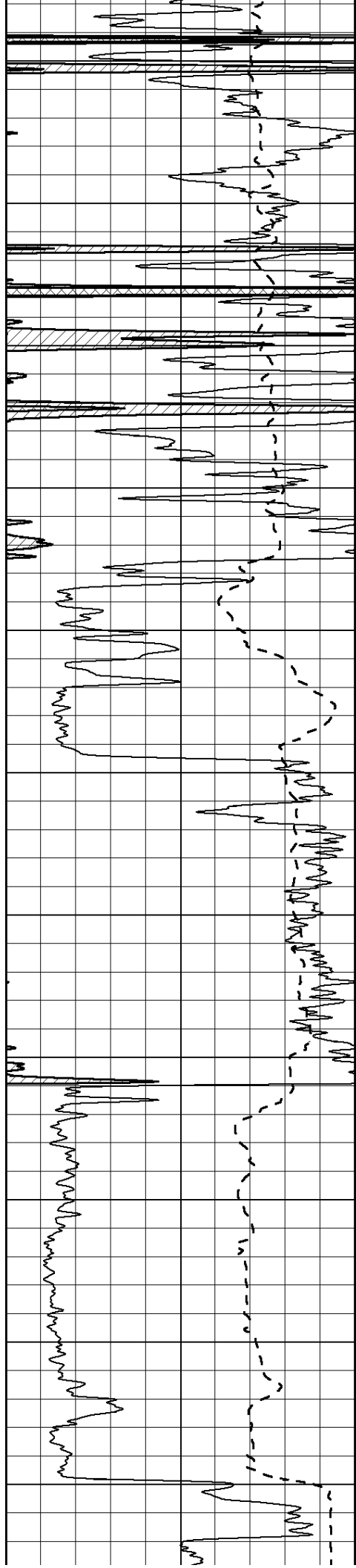
1550





1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100





2150

2200

2250

2300

2350

2400

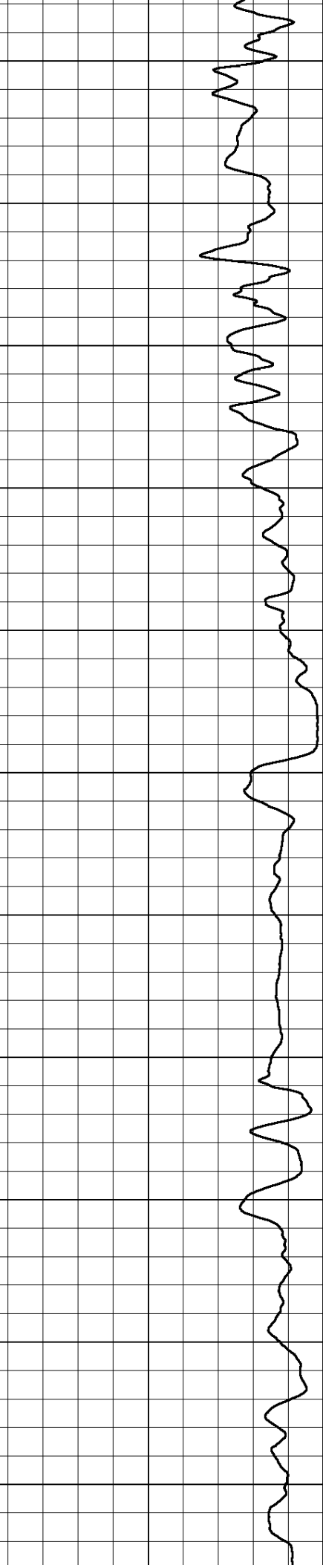
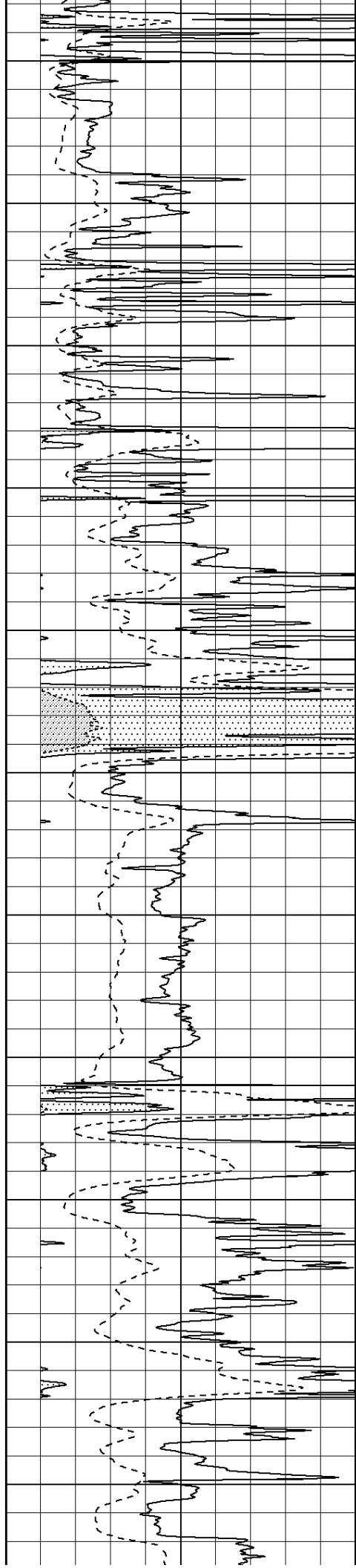
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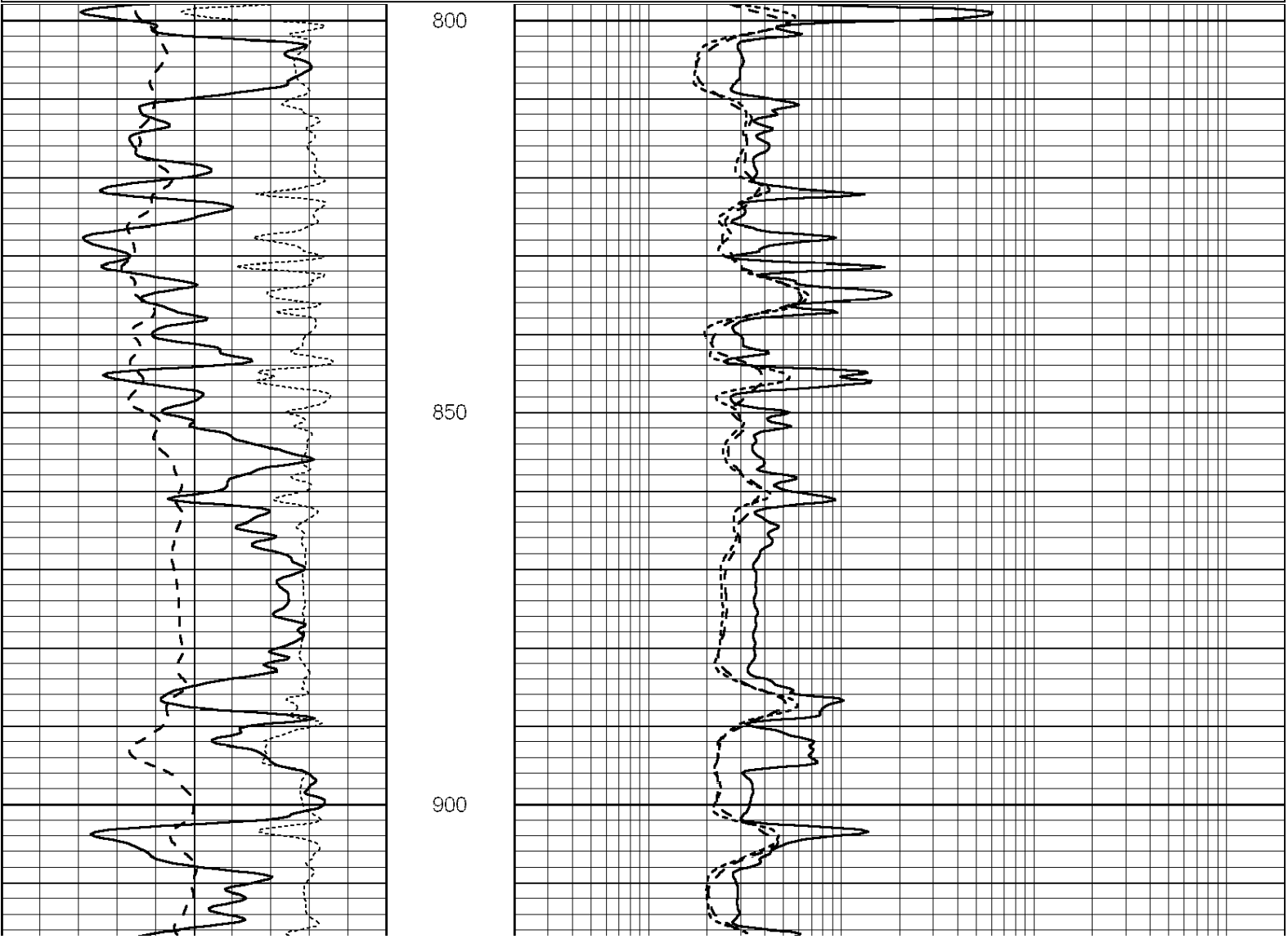
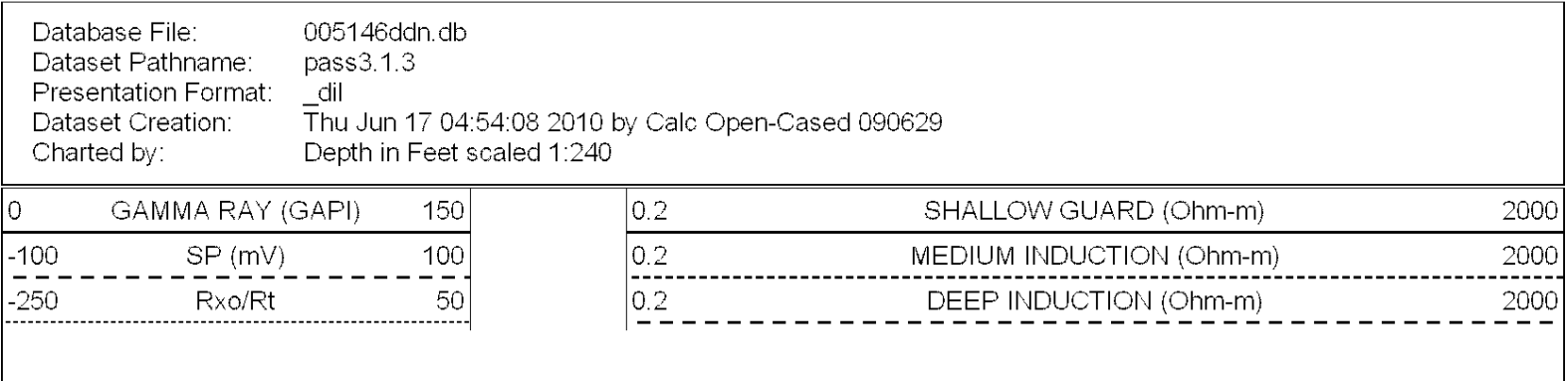
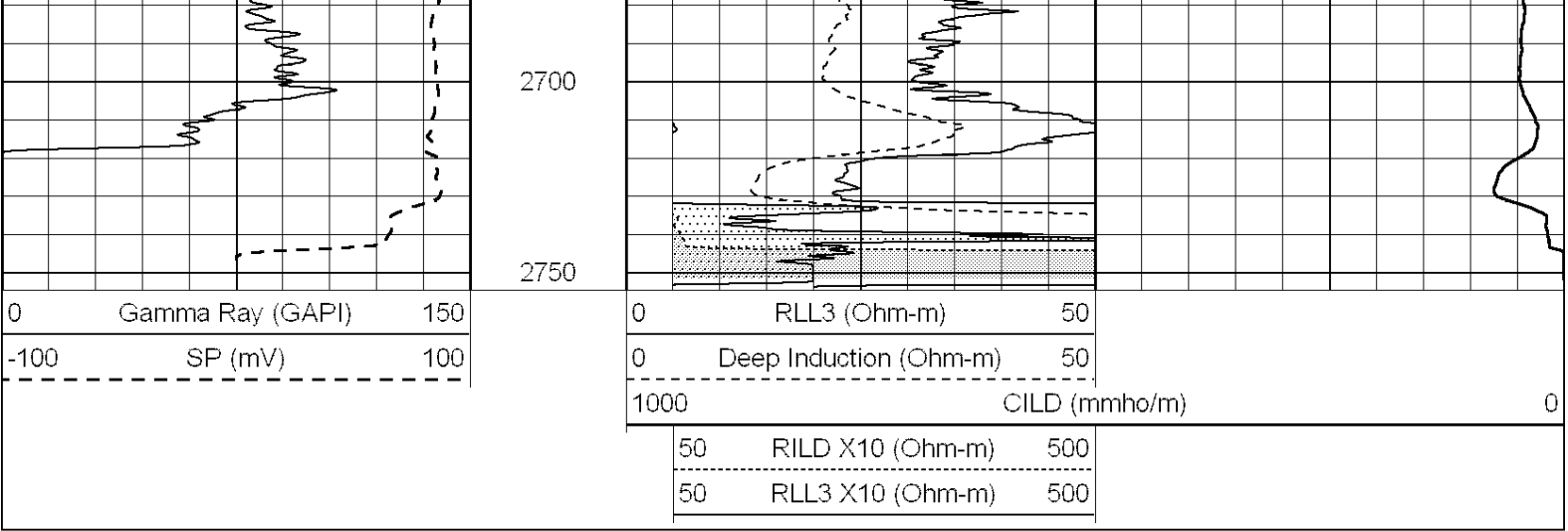
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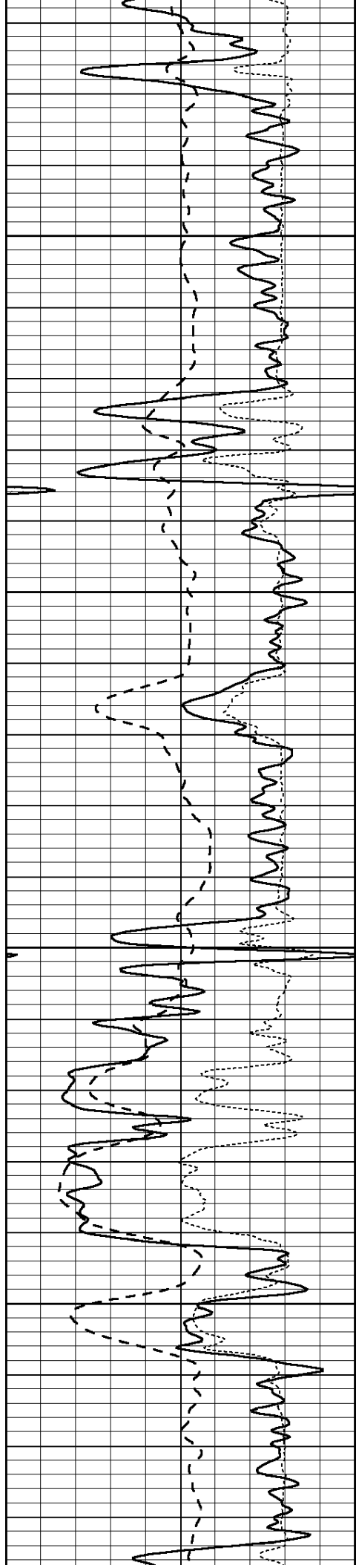
2550

2600

2650





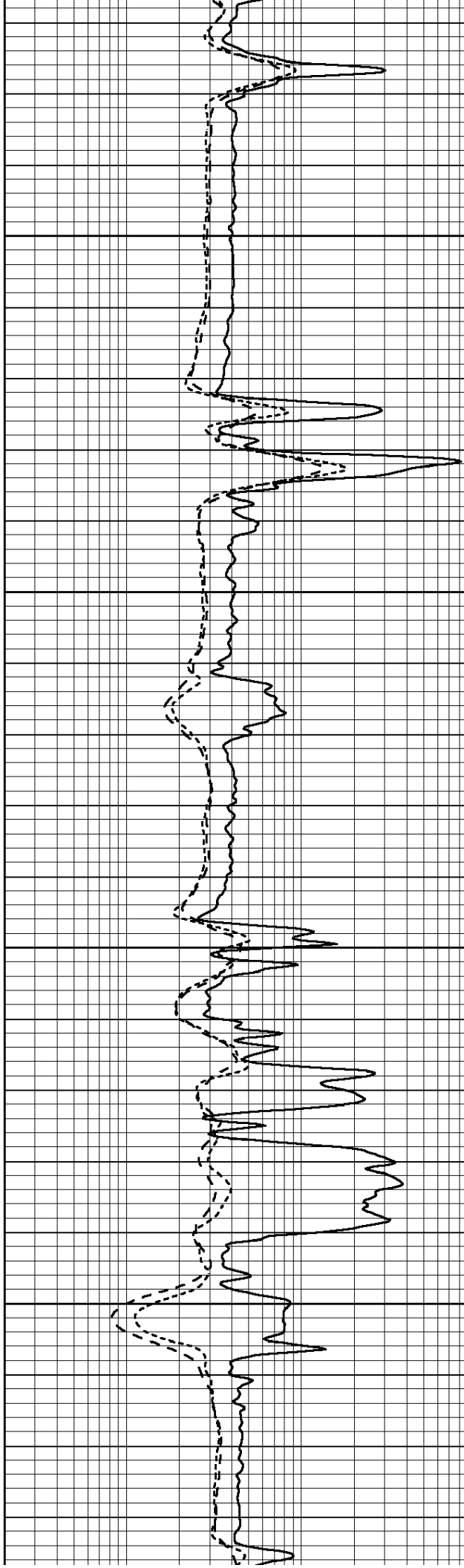


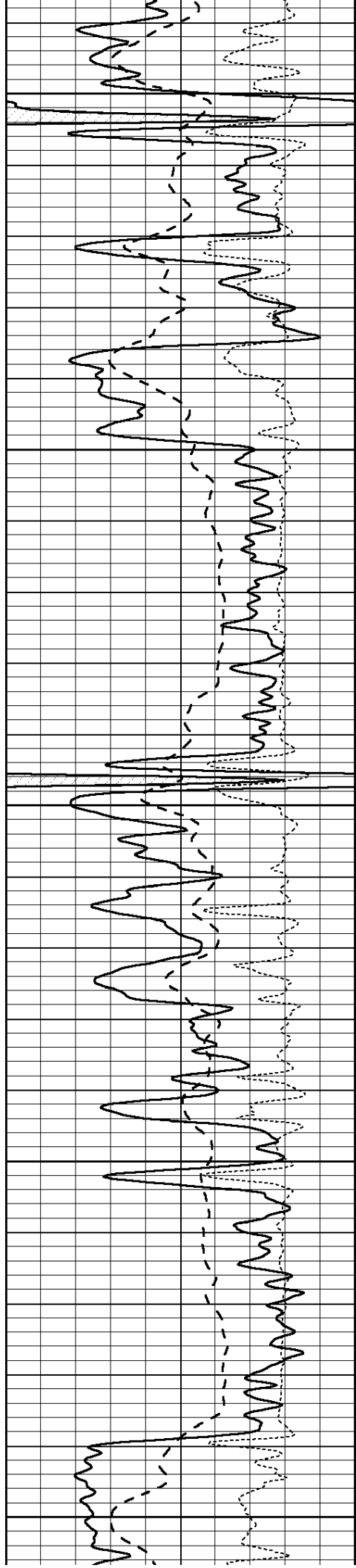
950

1000

1050

1100





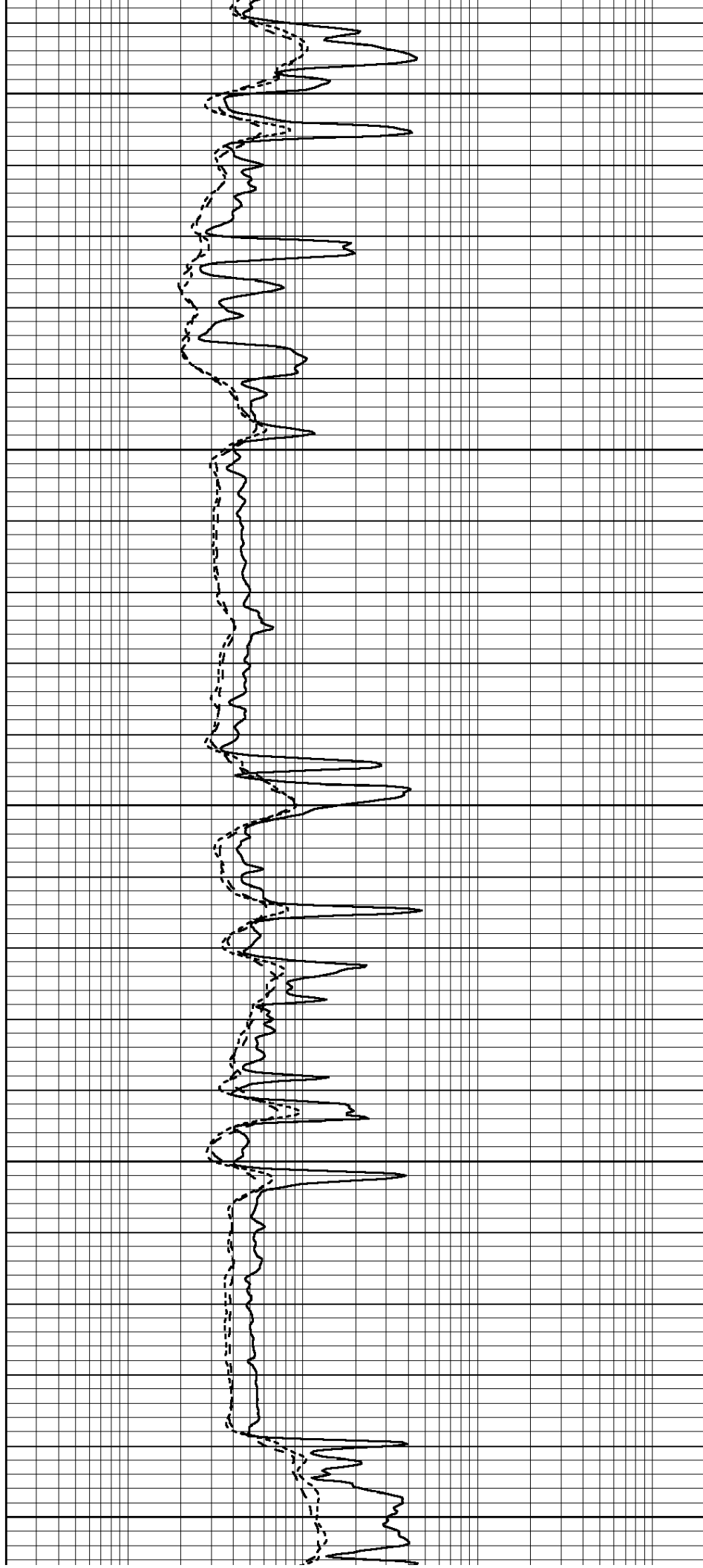
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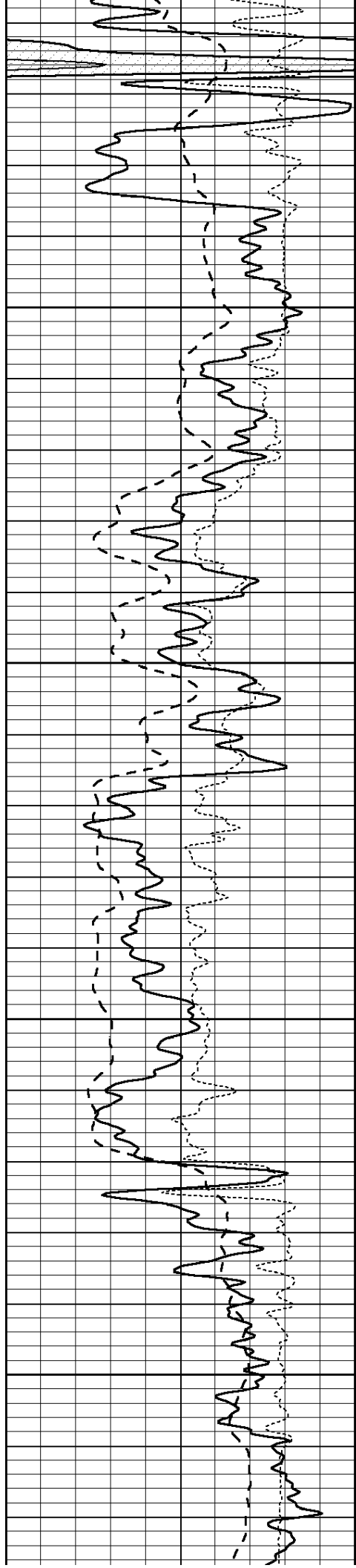
1200

1250

1300

1350



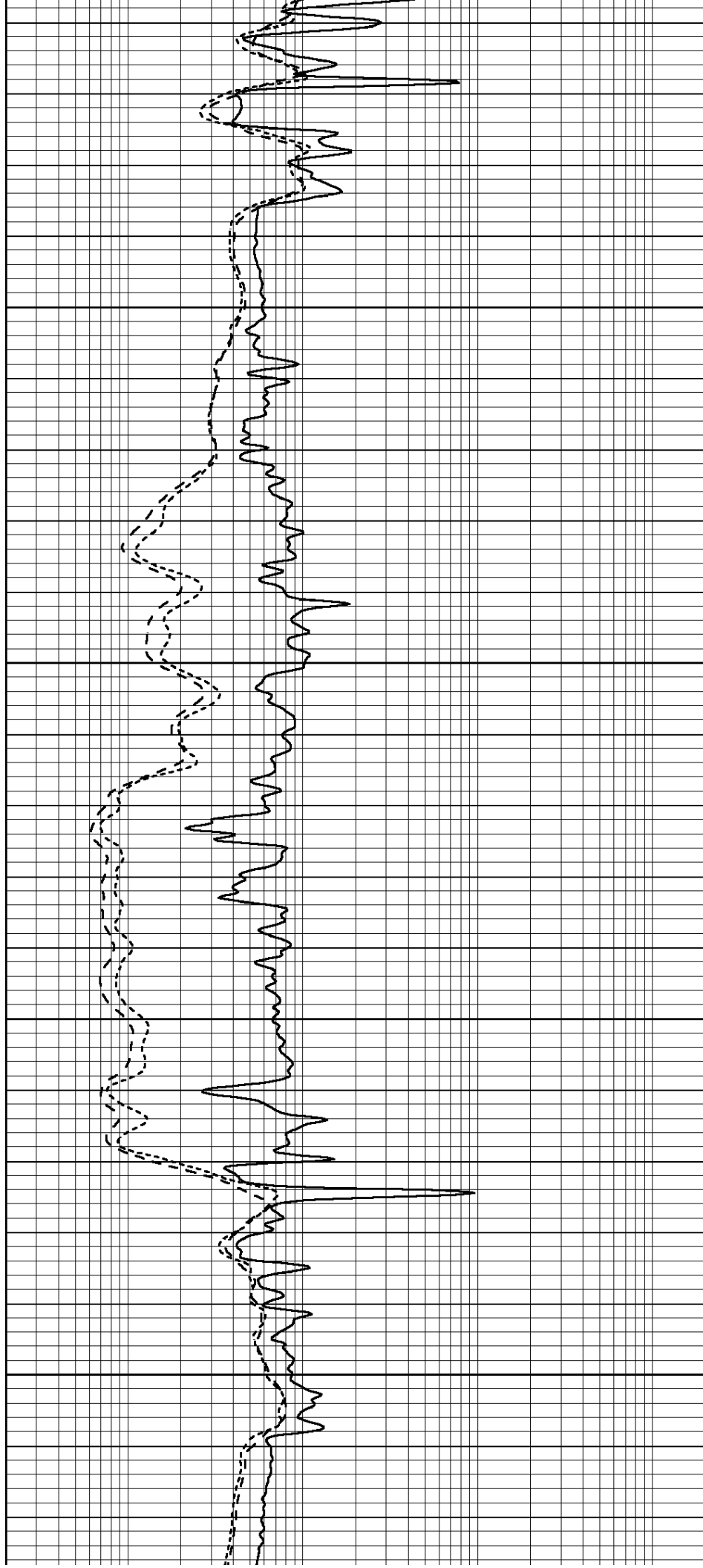


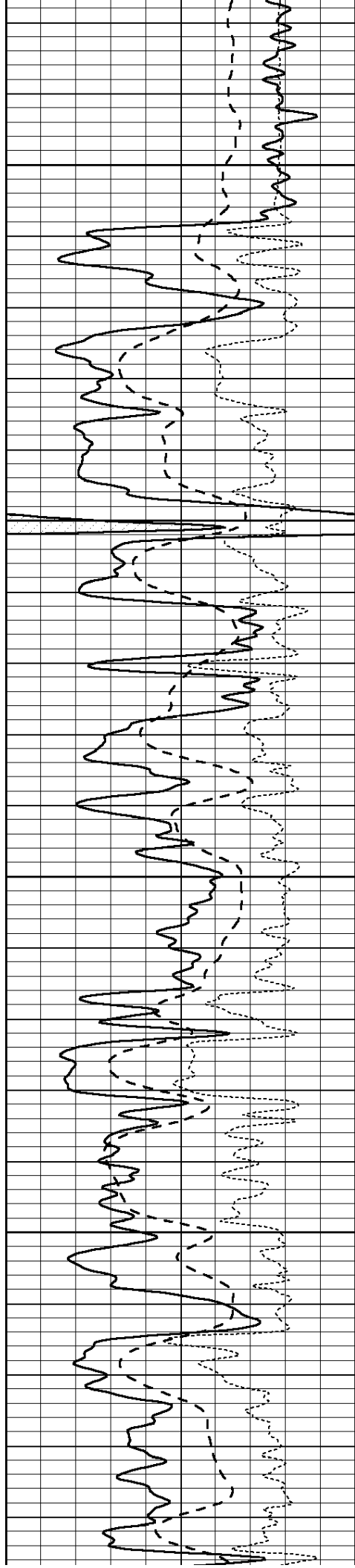
1400

1450

1500

1550



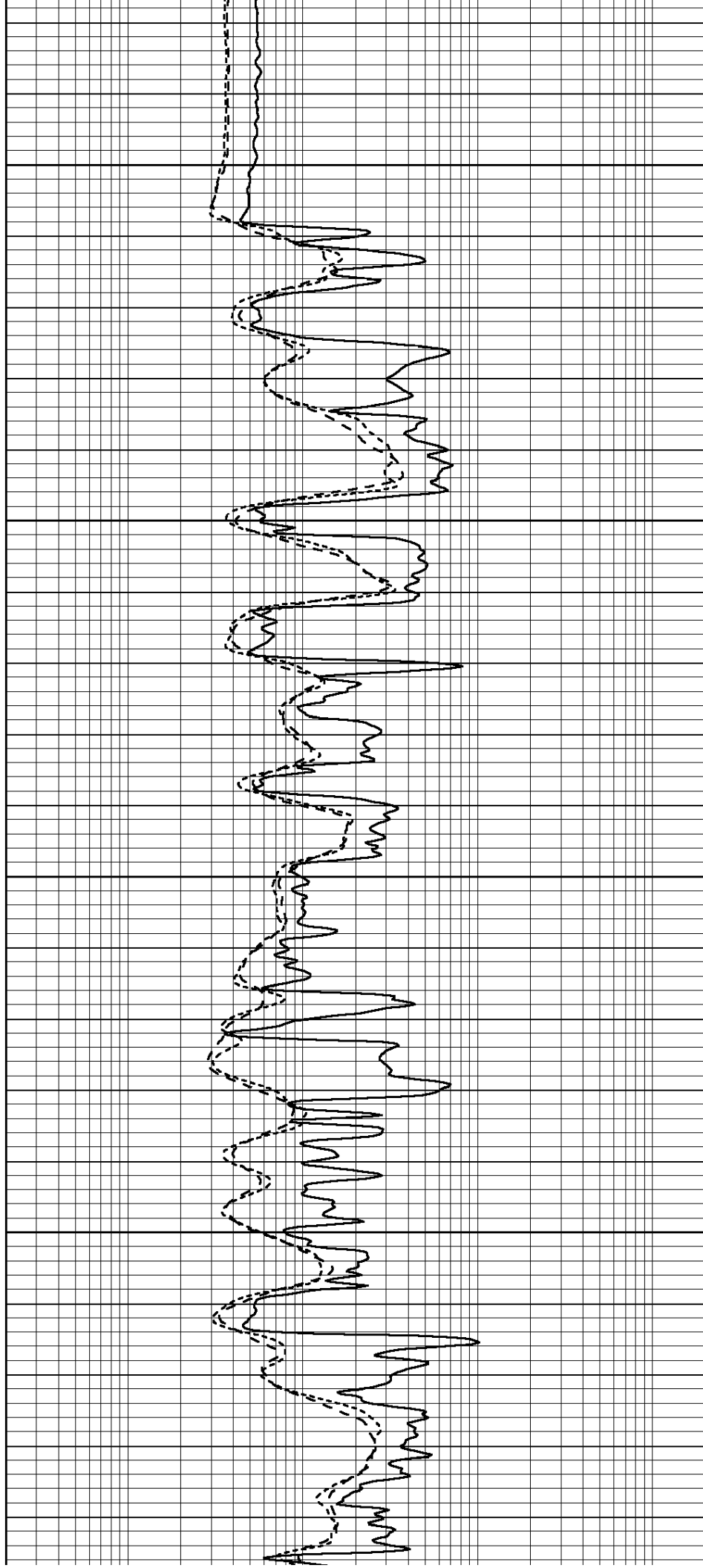


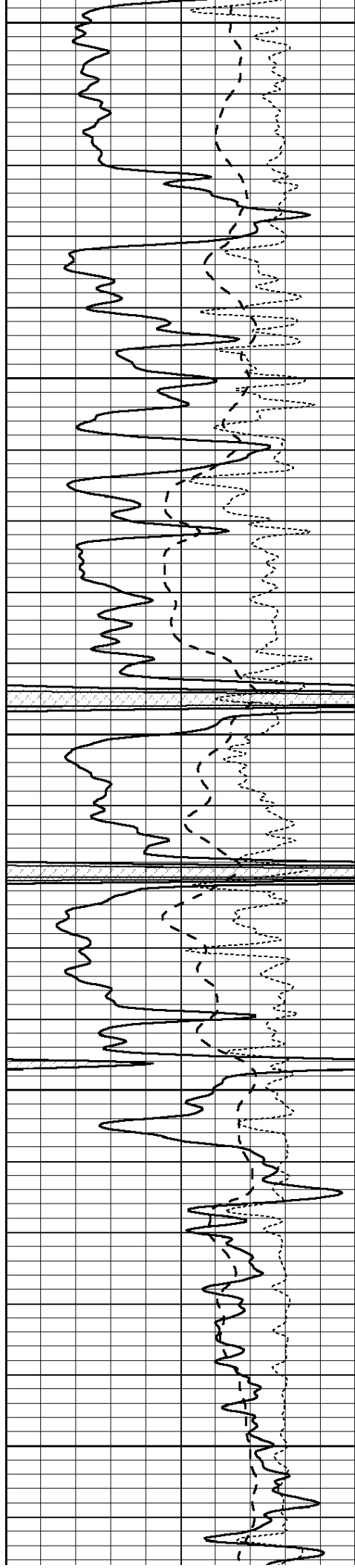
1600

1650

1700

1750





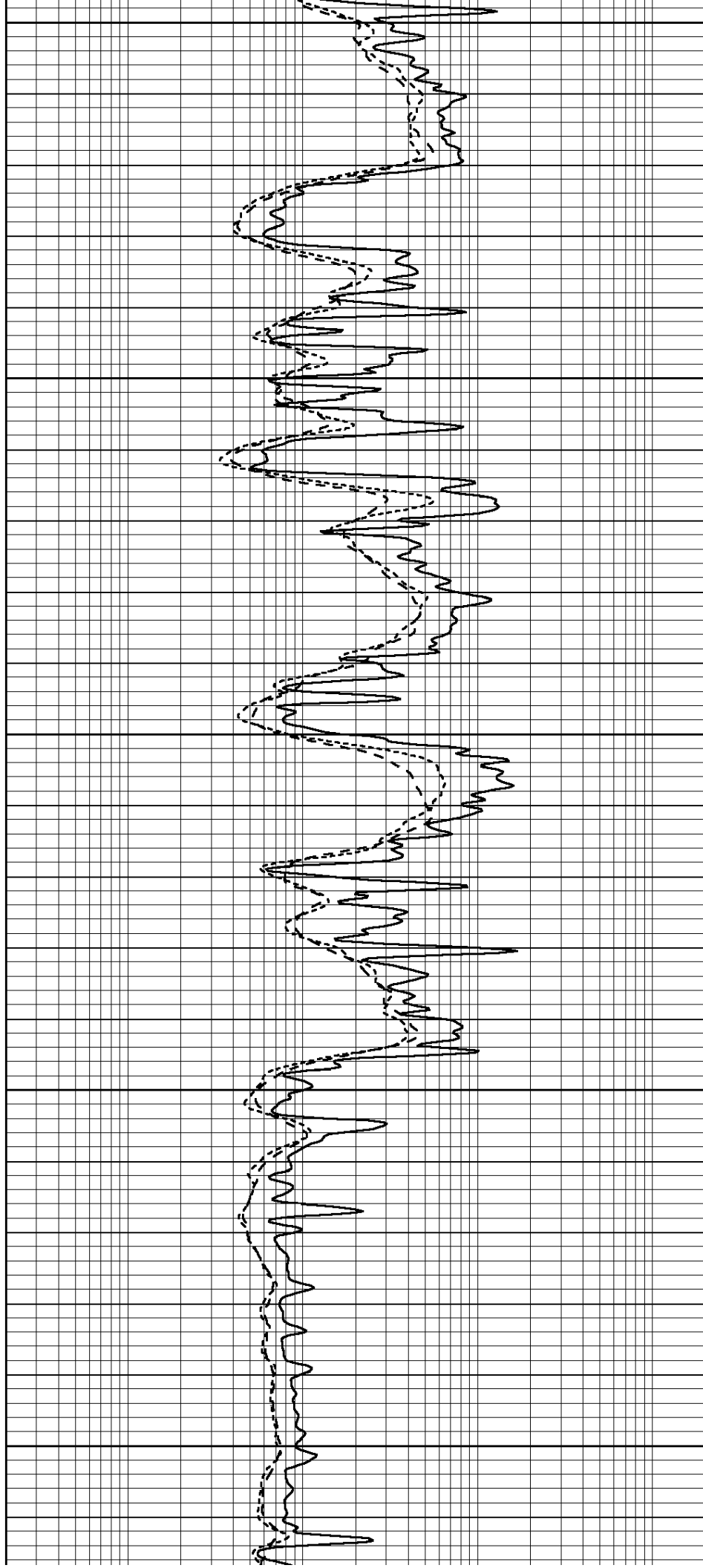
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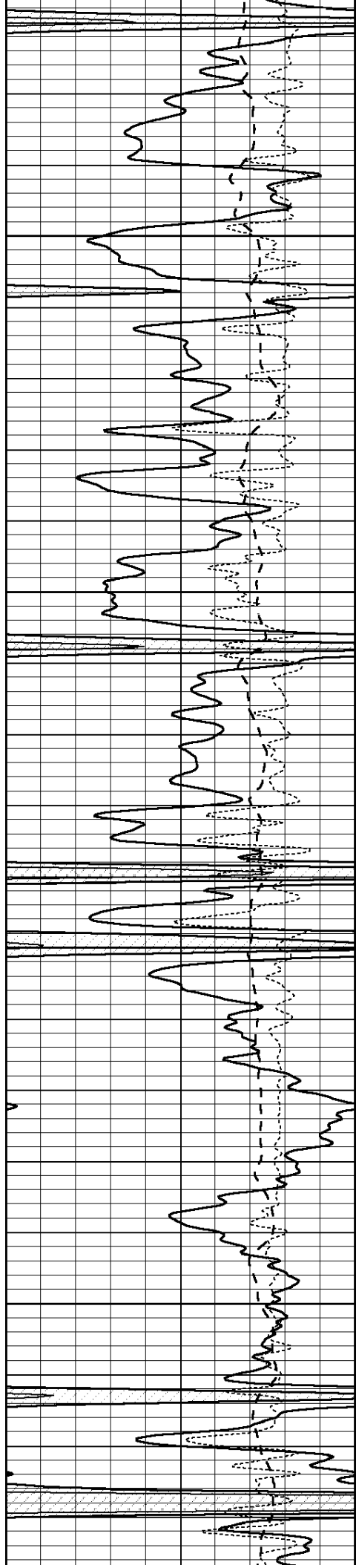
1850

1900

1950

2000



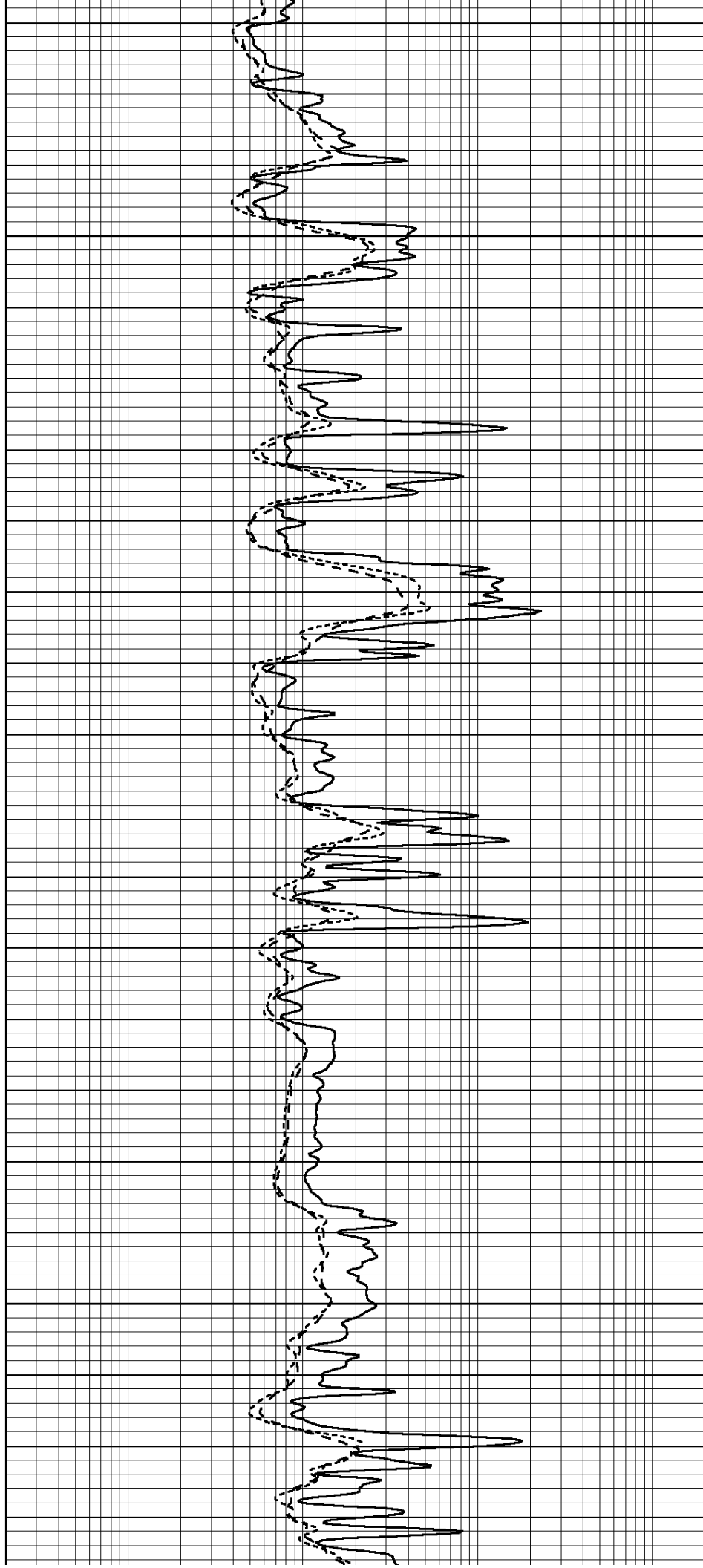


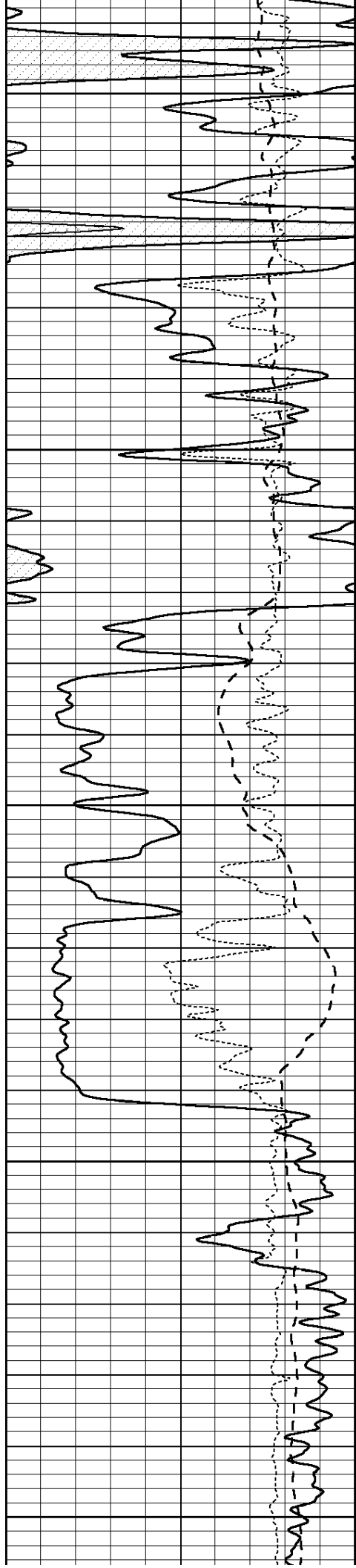
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2100

2150

2200





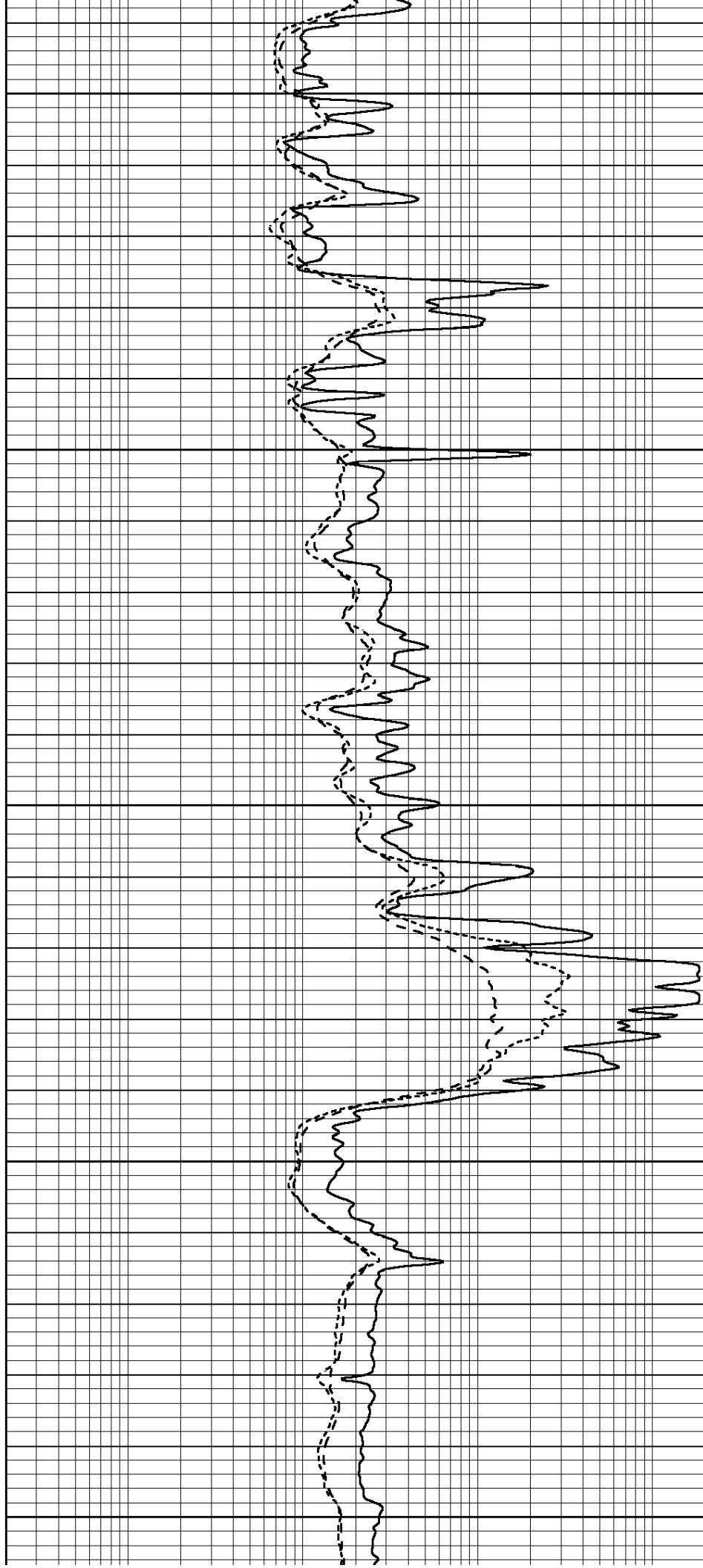
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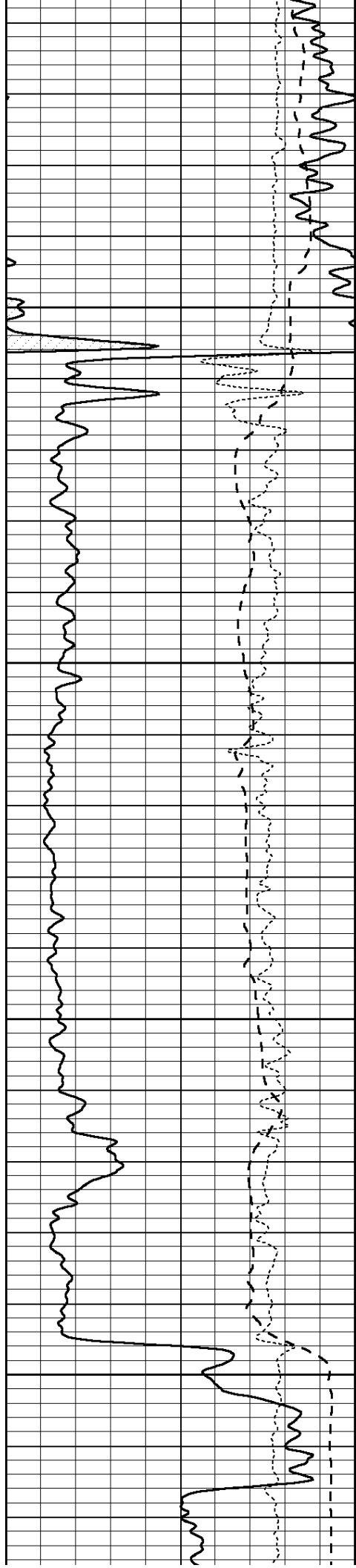
2300

2350

2400

2450



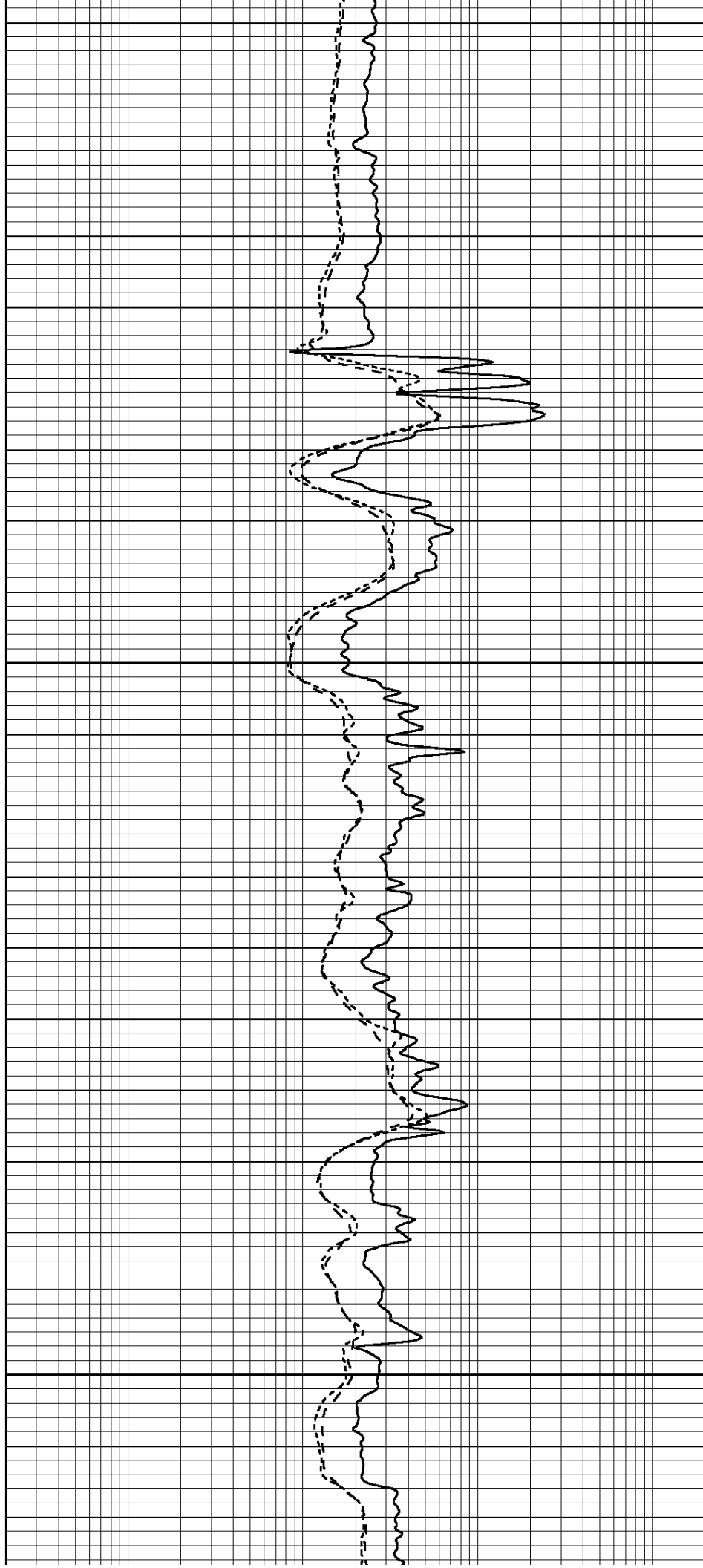


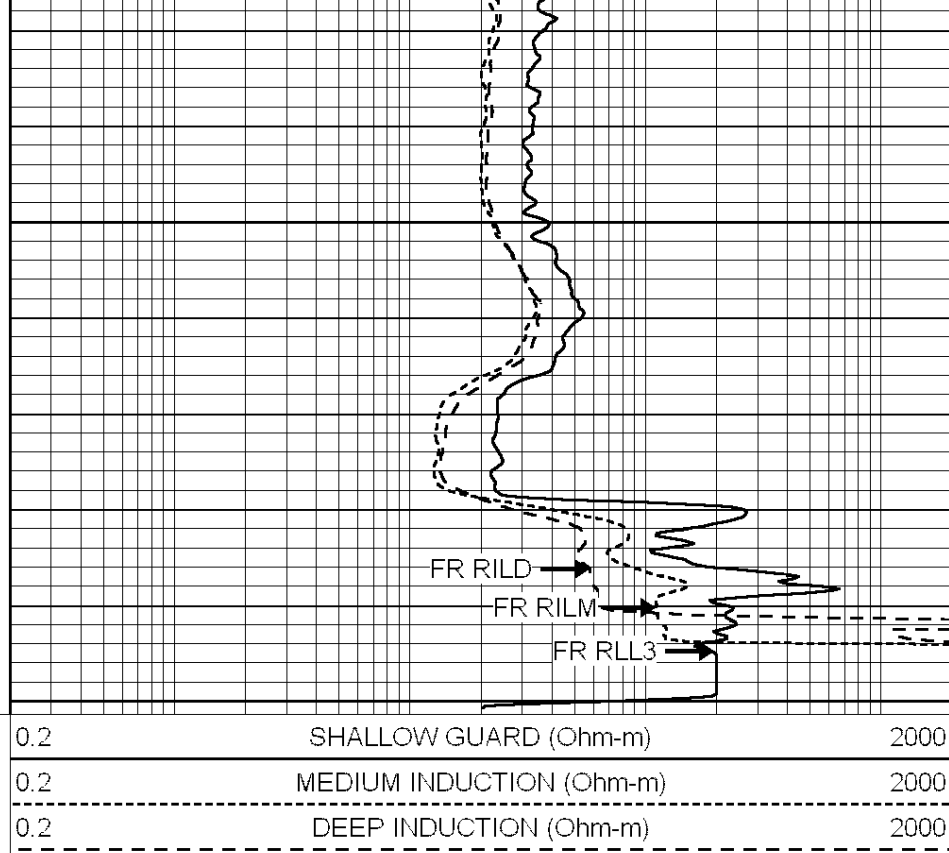
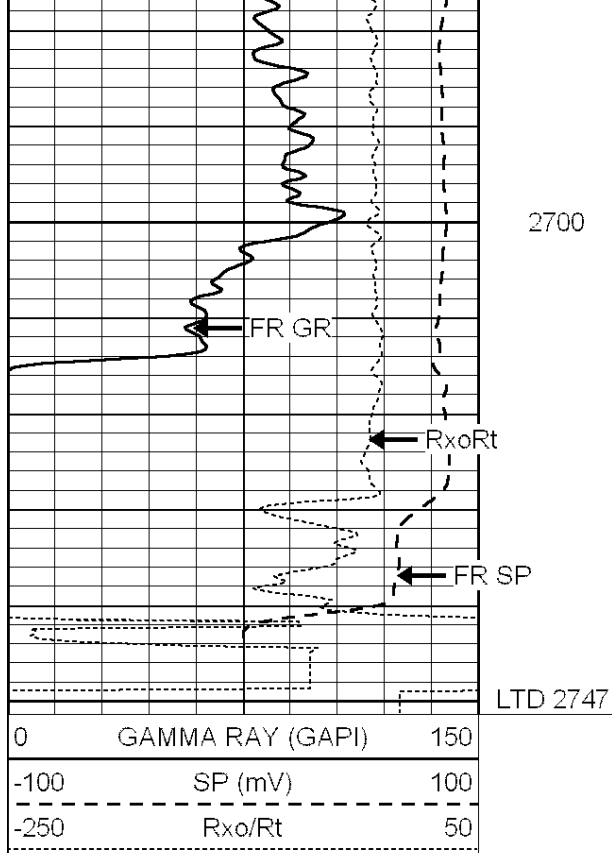
2500

2550

2600

2650

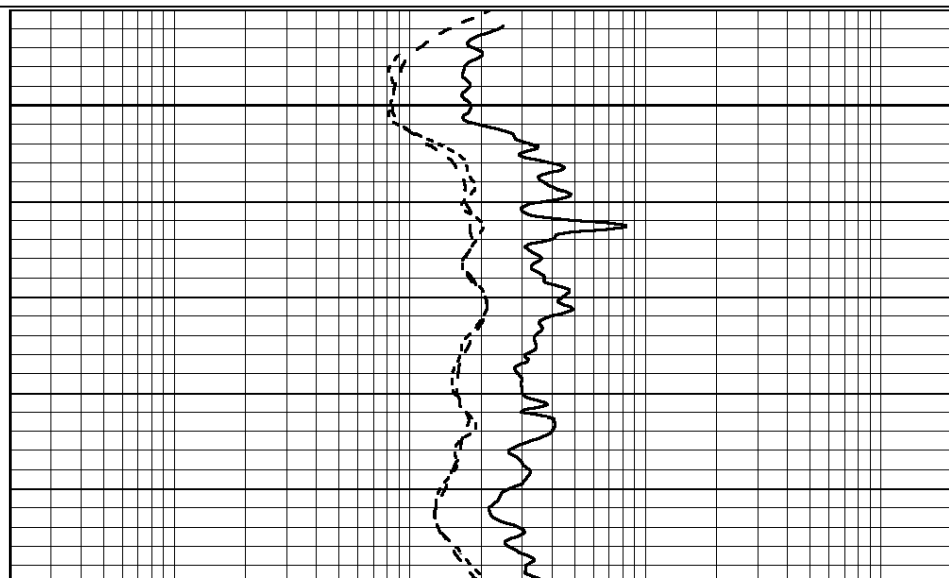
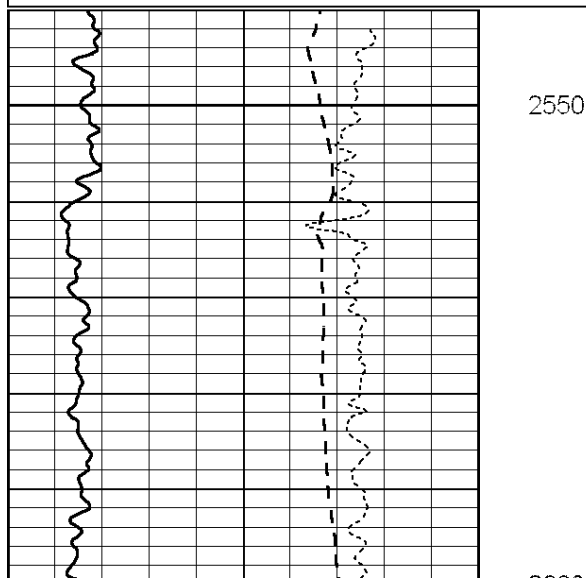
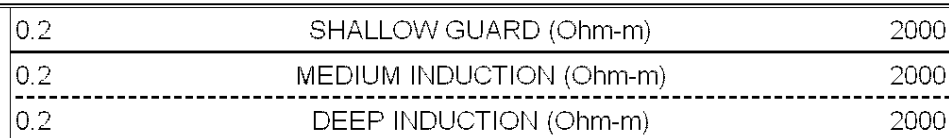
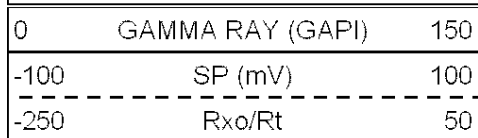


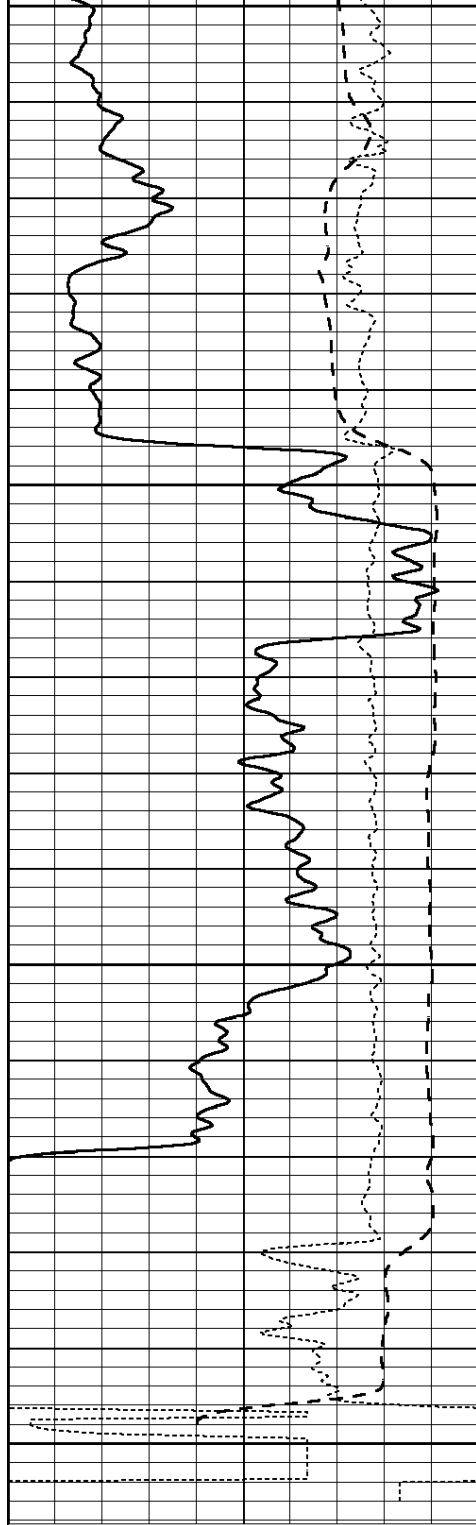


SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 005146ddn.db
 Dataset Pathname: pass2.2.1
 Presentation Format: _dil
 Dataset Creation: Thu Jun 17 04:57:11 2010
 Charted by: Depth in Feet scaled 1:240





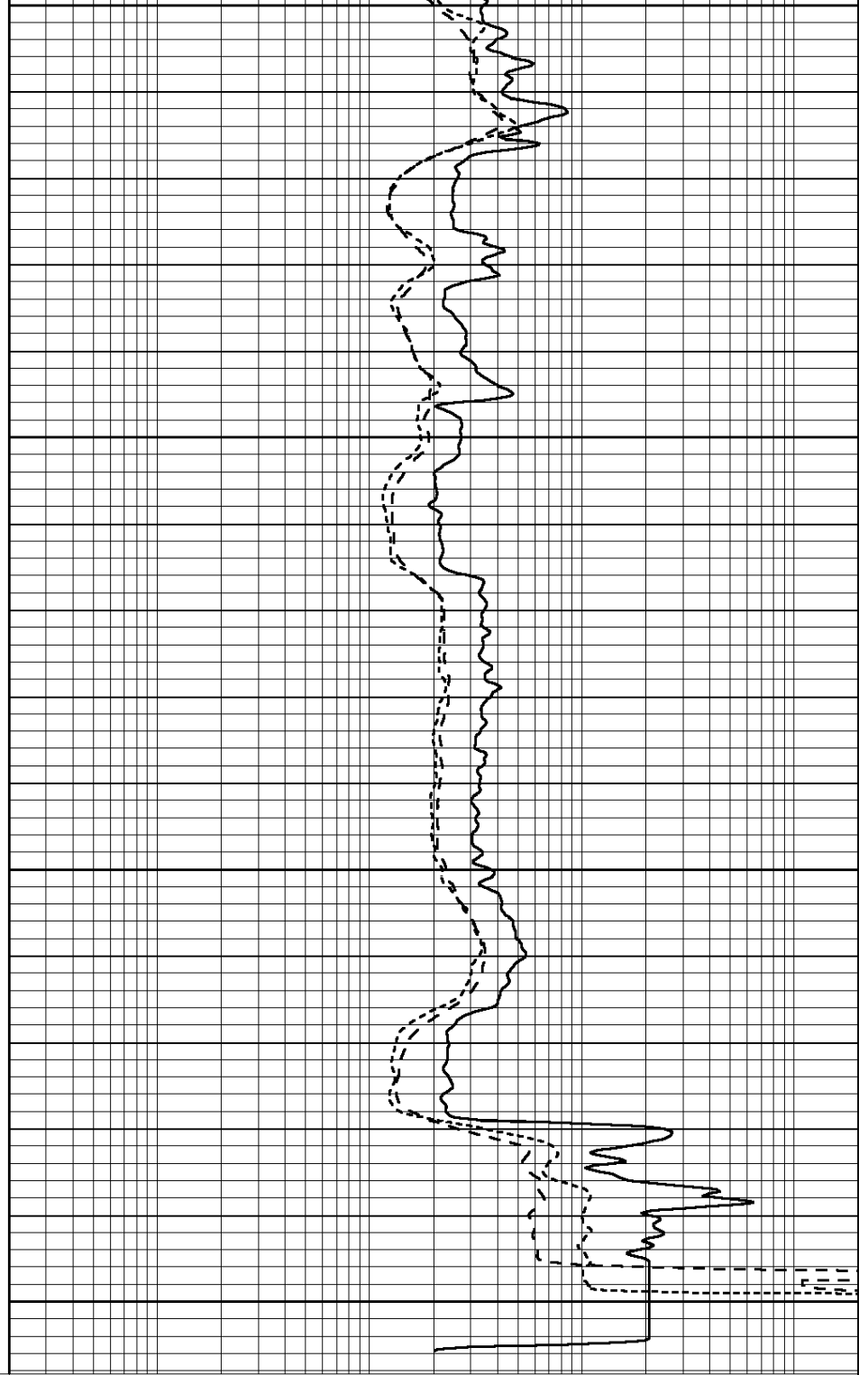
2600

2650

2700

2750

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

Calibration Report

Database File: 005146ddn.db
 Dataset Pathname: pass3.2
 Dataset Creation: Thu Jun 17 05:45:22 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
 Surface Cal Performed: Wed Jul 30 06:14:24 2008
 Downhole Cal Performed: Mon Jul 28 12:02:56 2008
 After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Serial Number:	GR6
Tool Model:	OPEN
Performed:	Tue Nov 10 08:32:36 2009

Calibrator Value:	150.0	GAPI
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Background Reading:	0.0	cps
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Calibrator Reading:	276.0	cps
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Sensitivity:	0.5535	GAPI/cps
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