



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company		MULL DRILLING COMPANY, INC.	
Well		REINERT #1-11	
Field		WILDCAT	
County		NESS	
State		KANSAS	
Location:		APL # : 15-135-25185-0000 1617' FSL & 1996' FWL NE/4 - SW/4	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 11 TWP 20S RGE 23W		Elevation K.B. 2268 D.F. 2266 G.L. 2259	
Date	12-22-10		
Run Number	ONE		
Depth Driller	4451		
Depth Logger	4451		
Bottom Logged Interval	4449		
Top Log Interval	0		
Casing Driller	8 7/8" @ 229		
Casing Logger	226		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6900 PPM	
Density / Viscosity	9.2/52		
pH / Fluid Loss	9.5/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.95 @ 69F		
Rmf @ Meas. Temp	0.71 @ 69F		
Rmc @ Meas. Temp	1.14 @ 69F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.55 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	120F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	KEVIN KESSLER		

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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
NESS CITY, KS - 9 MILES SOUTH TO COUNTY RD 40 - 3 MILES EAST
NORTH INTO

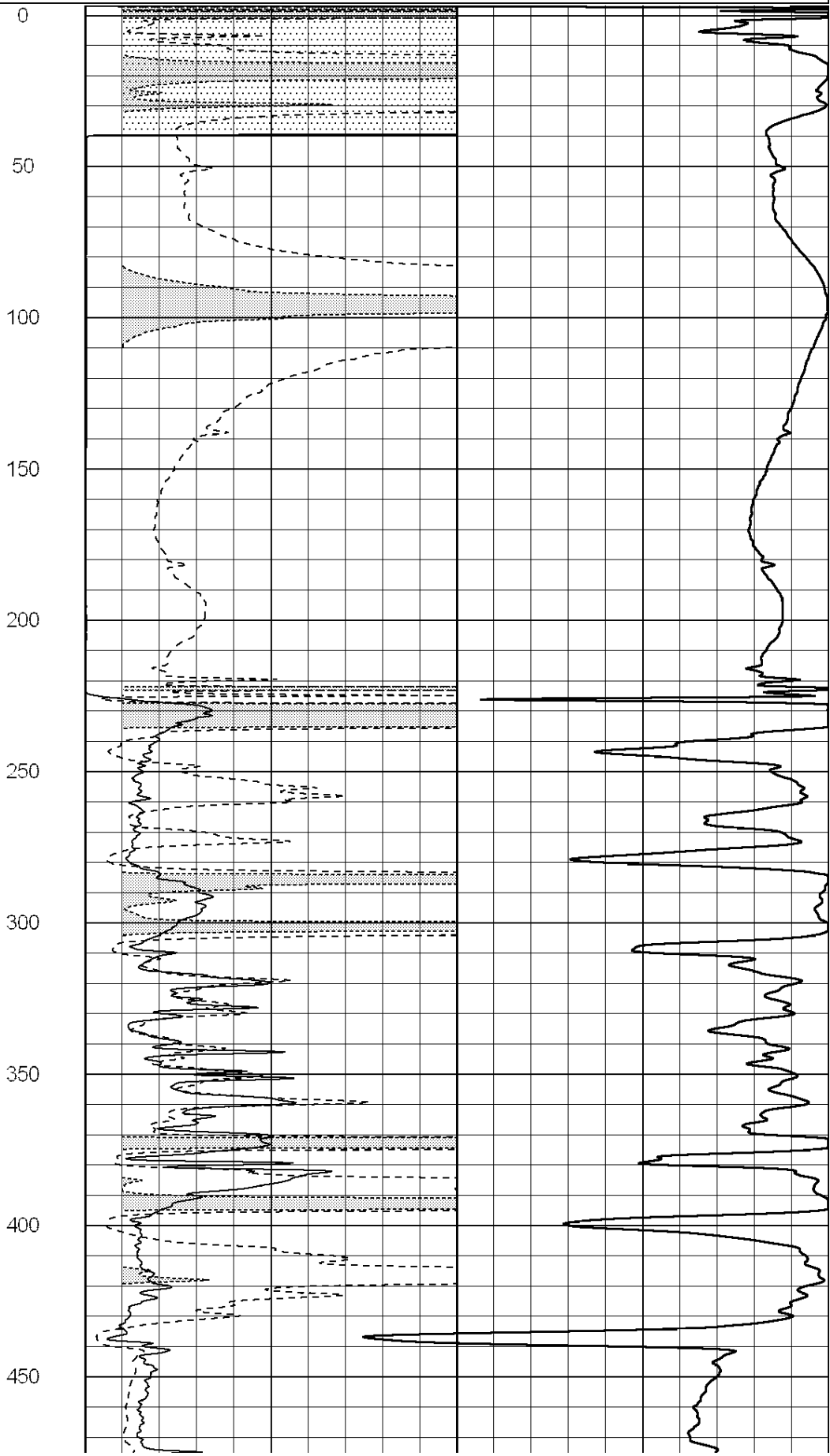
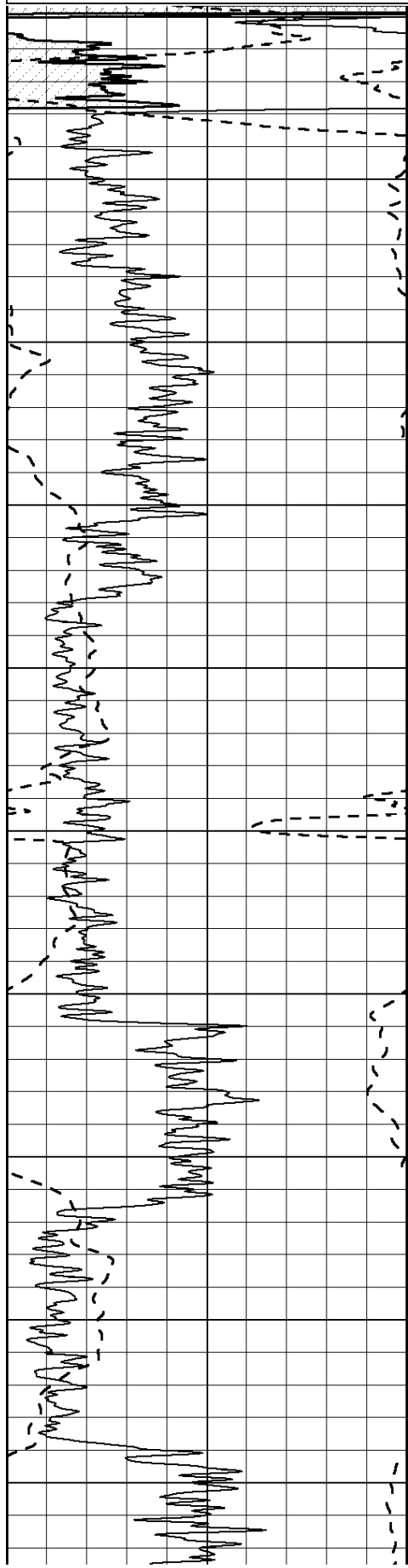
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Charted by: Depth in Feet scaled 1:600

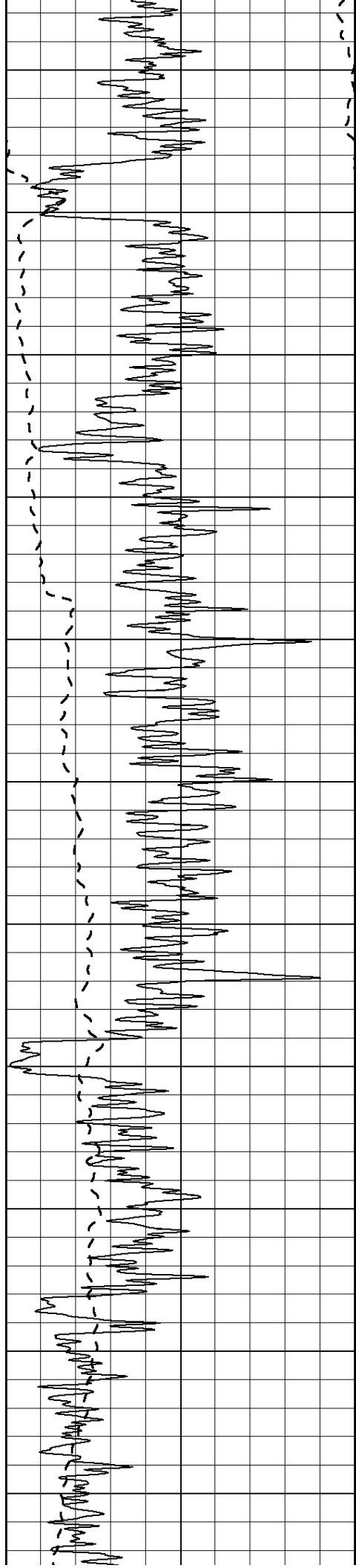
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0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

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

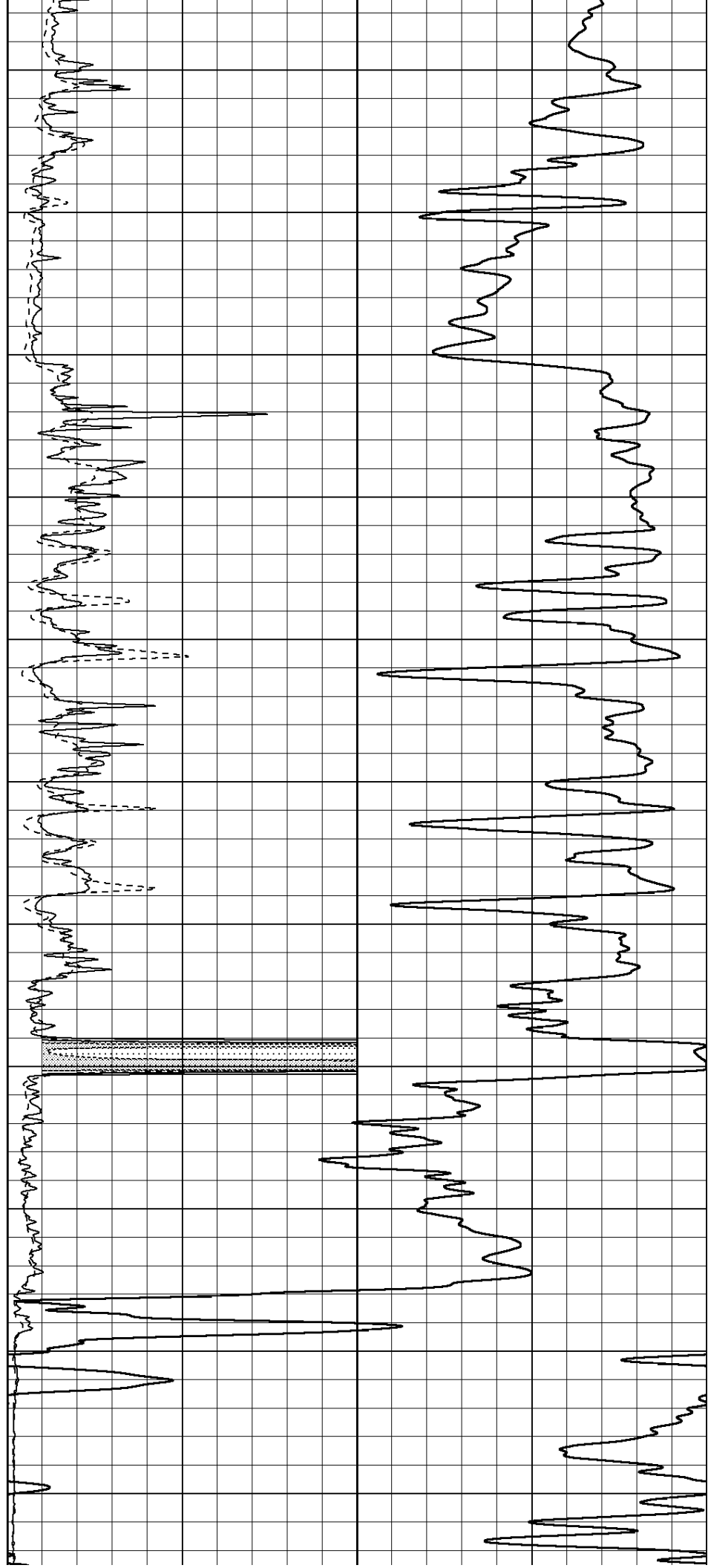
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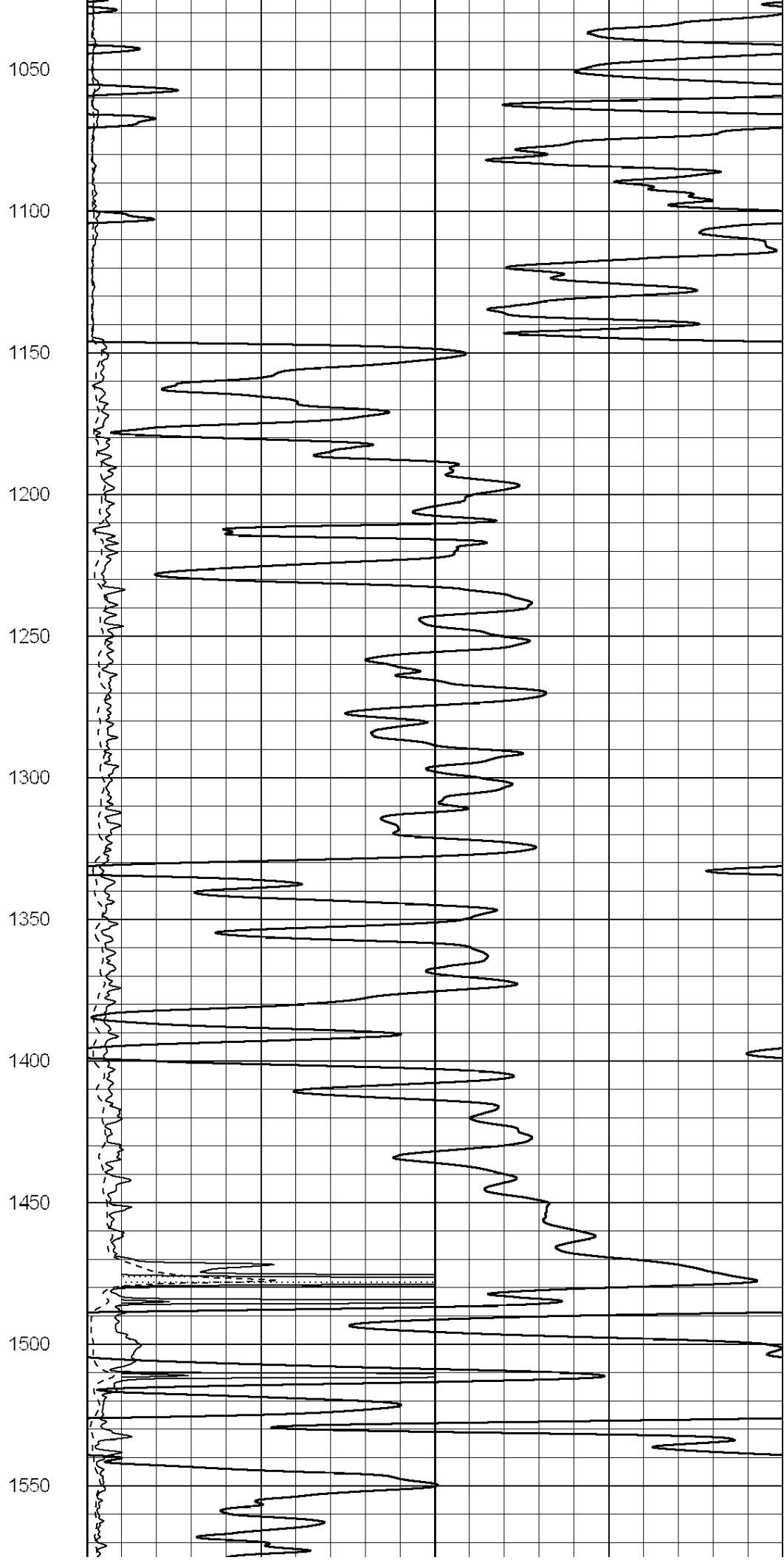
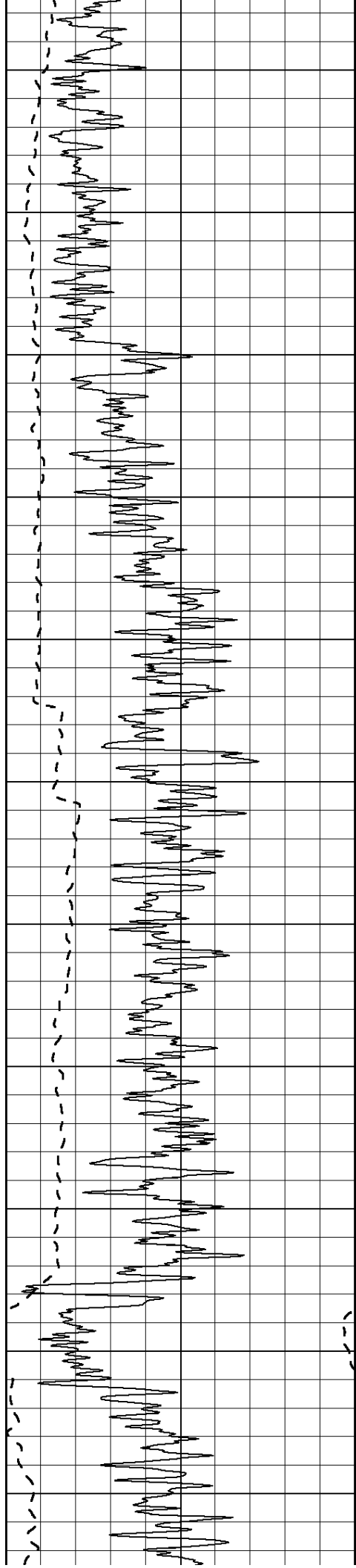
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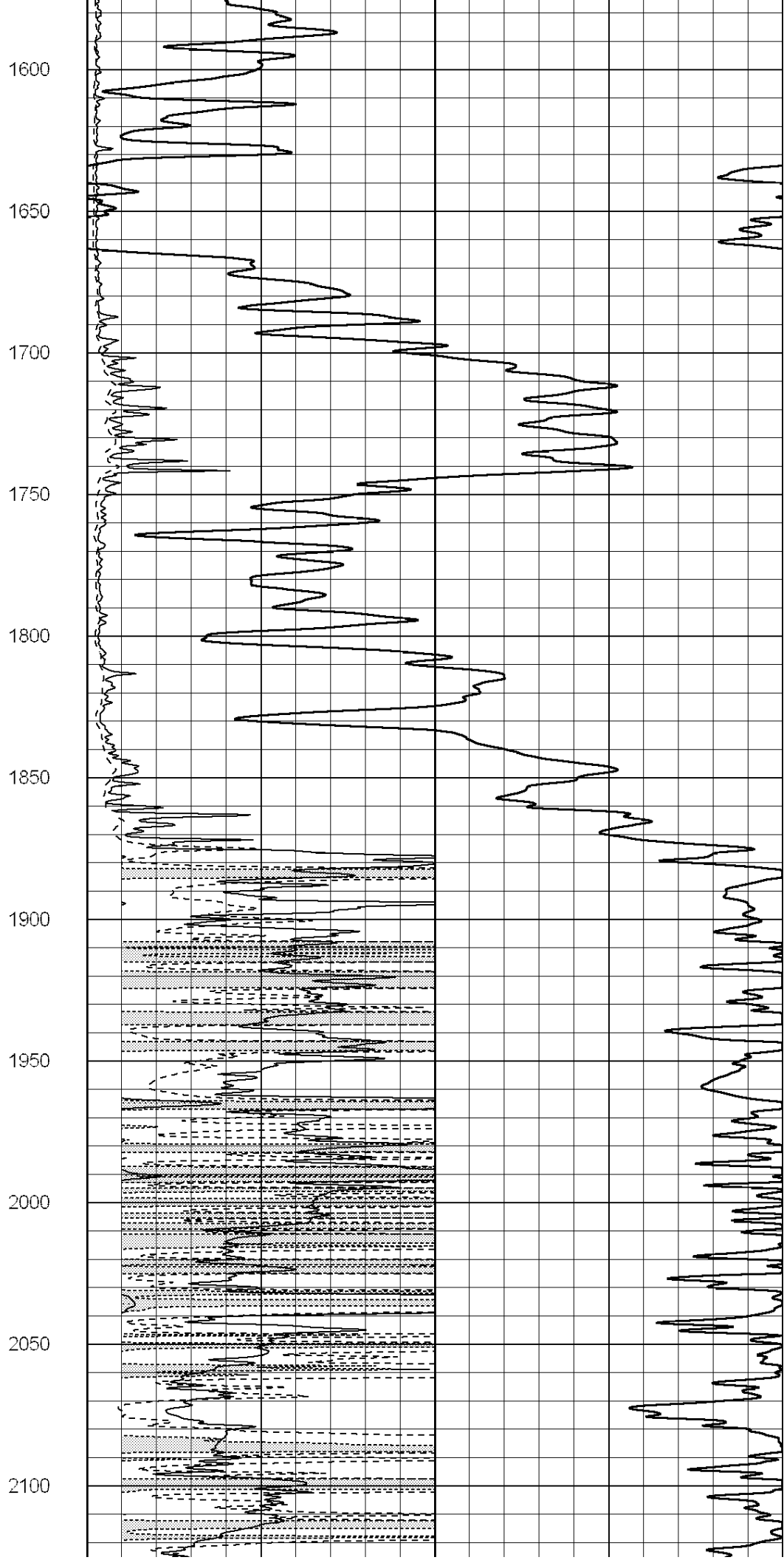
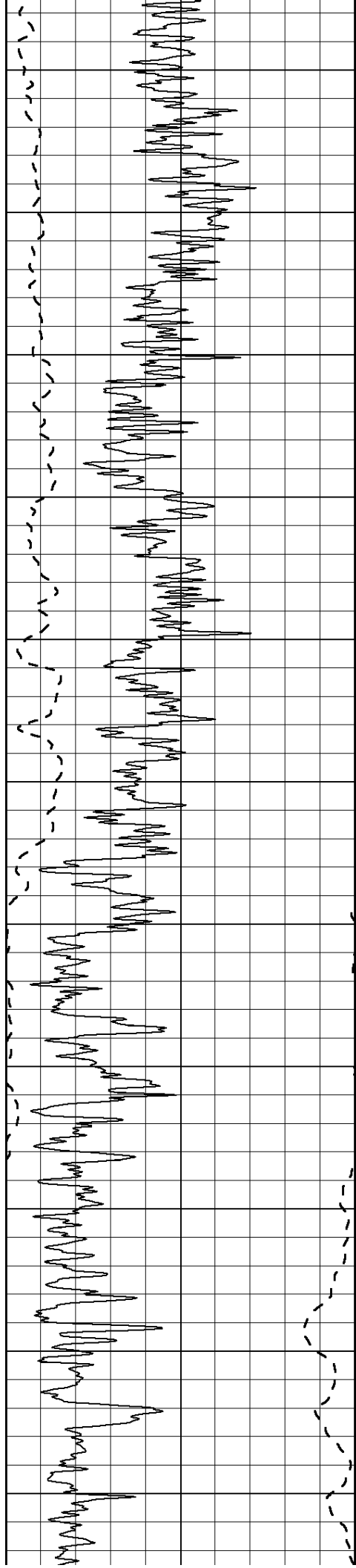
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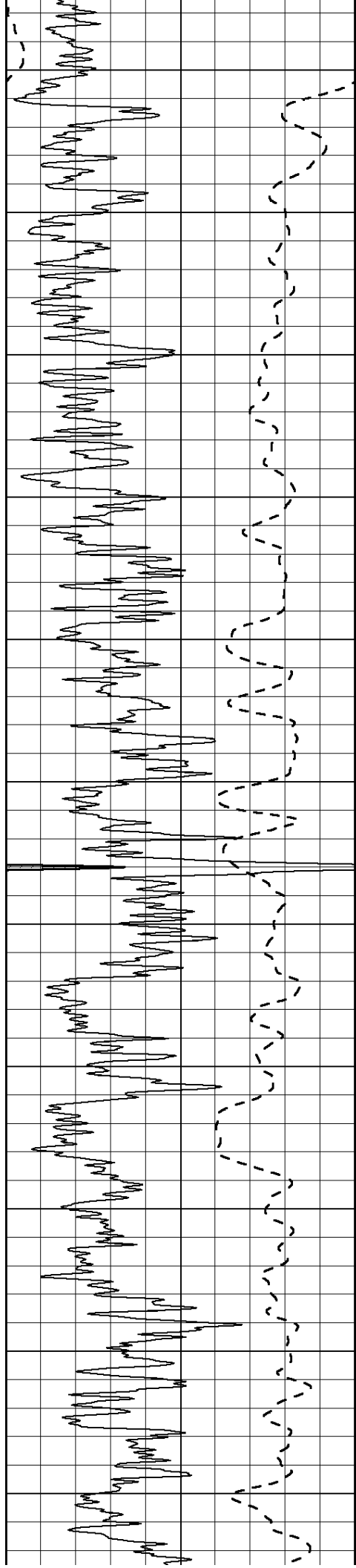
950

1000









2150

2200

2250

2300

2350

2400

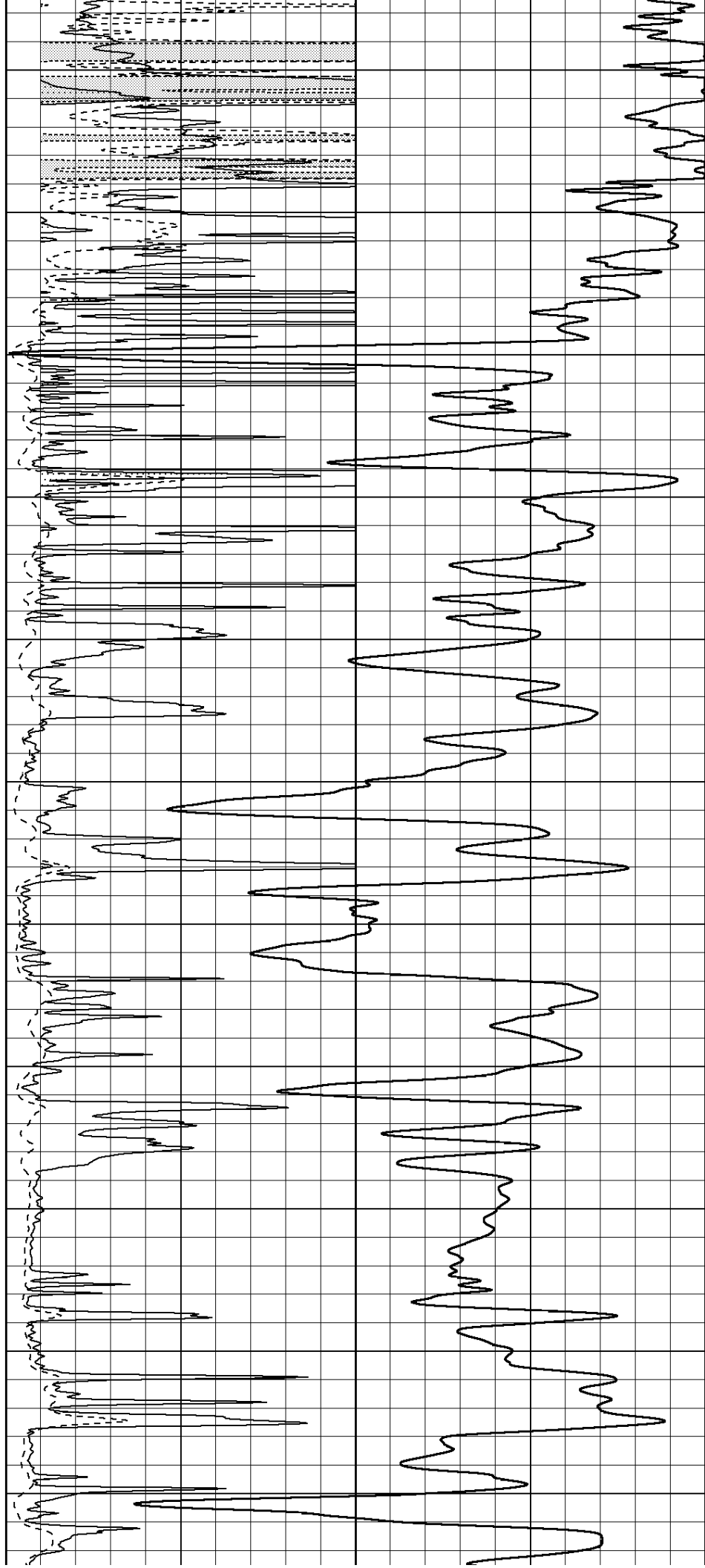
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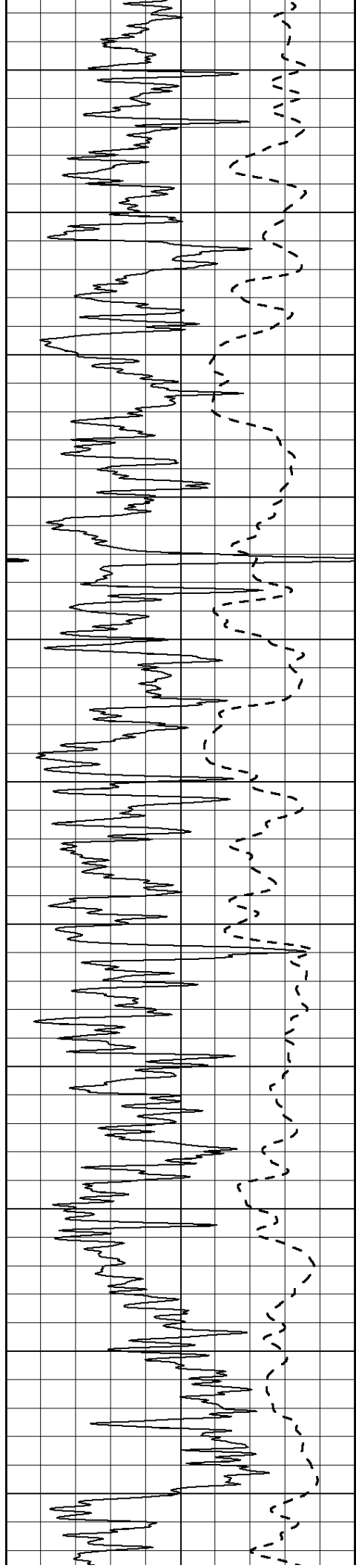
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2550

2600

2650





2700

2750

2800

2850

2900

2950

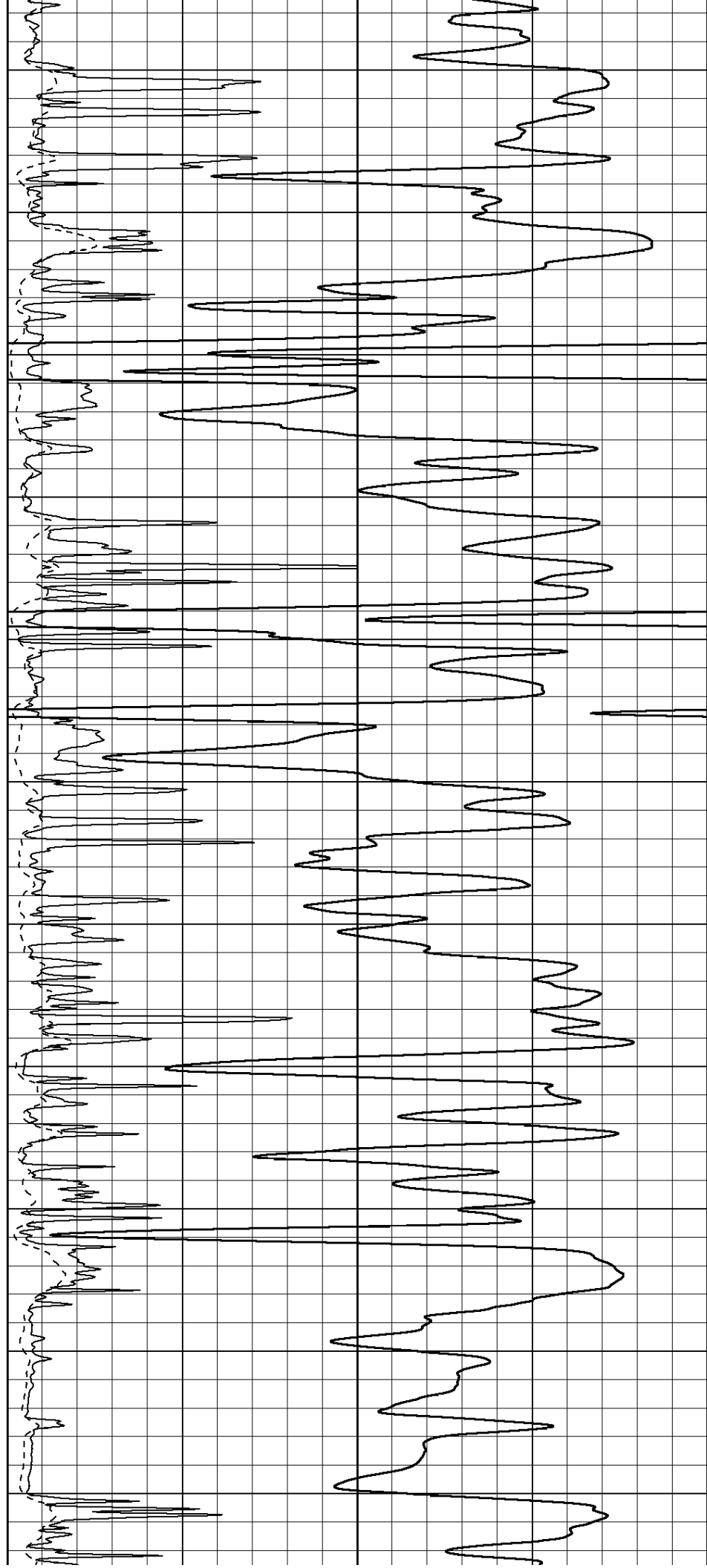
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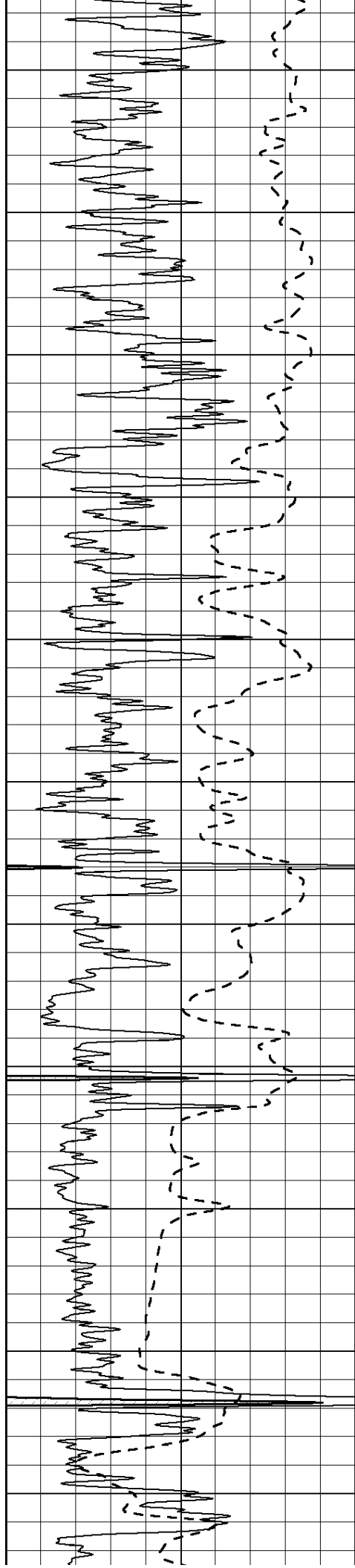
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3100

3150

3200





3250

3300

3350

3400

3450

3500

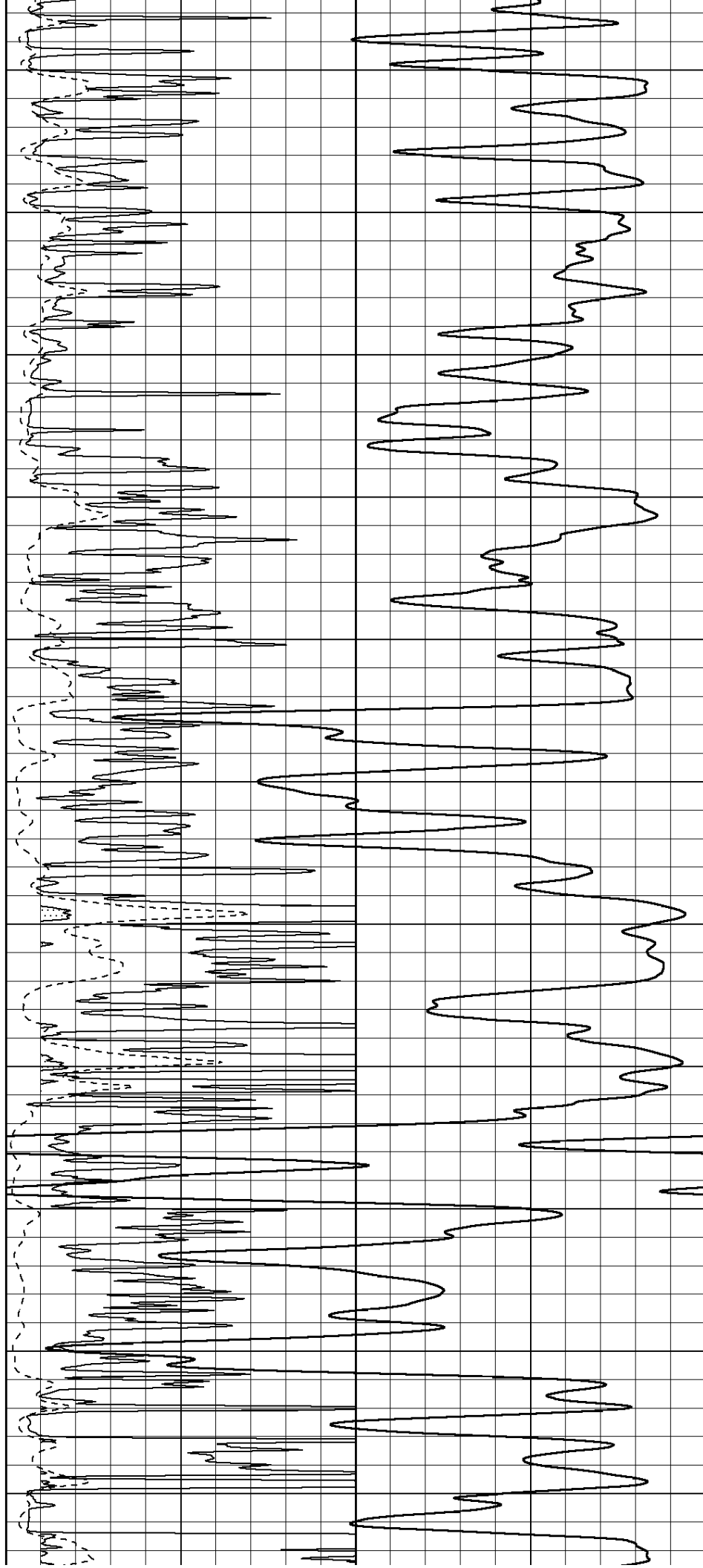
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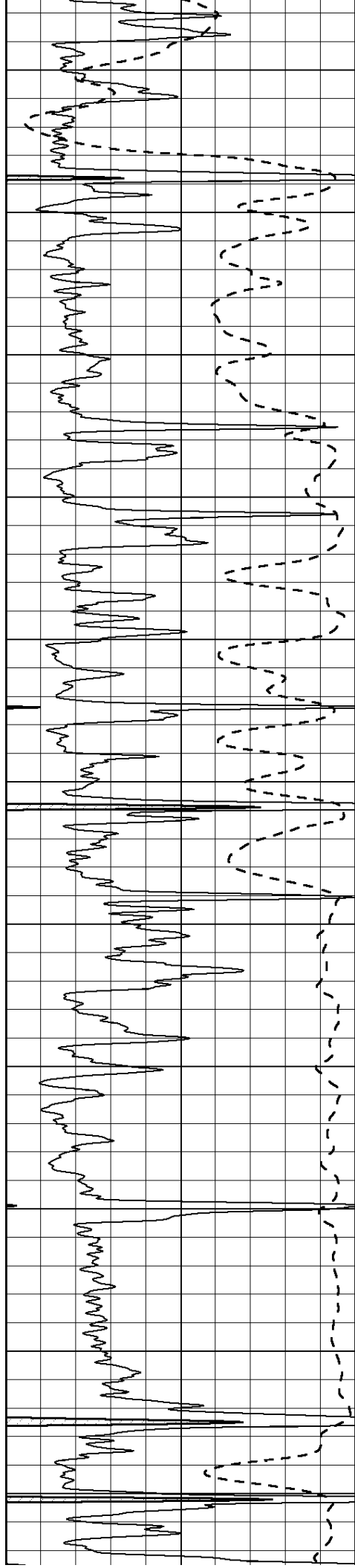
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3650

3700

3750





3800

3850

3900

3950

4000

4050

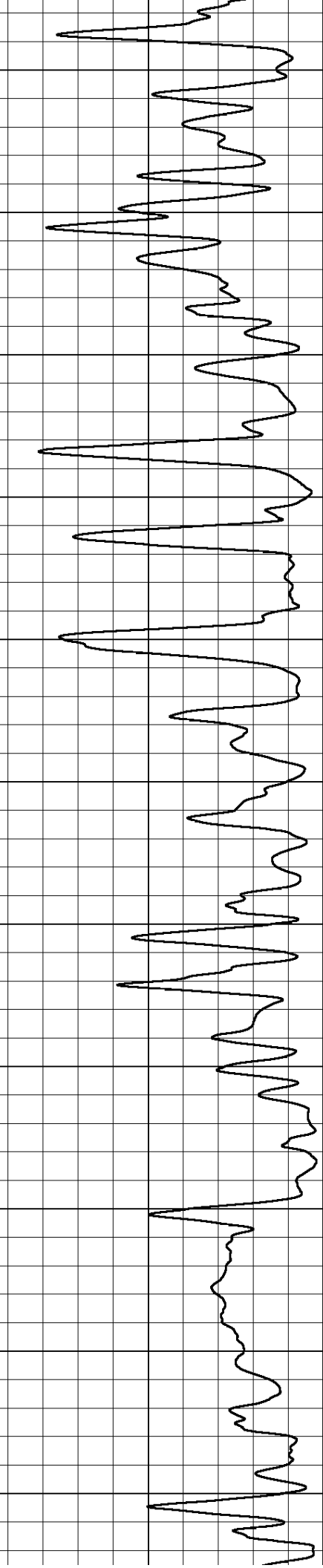
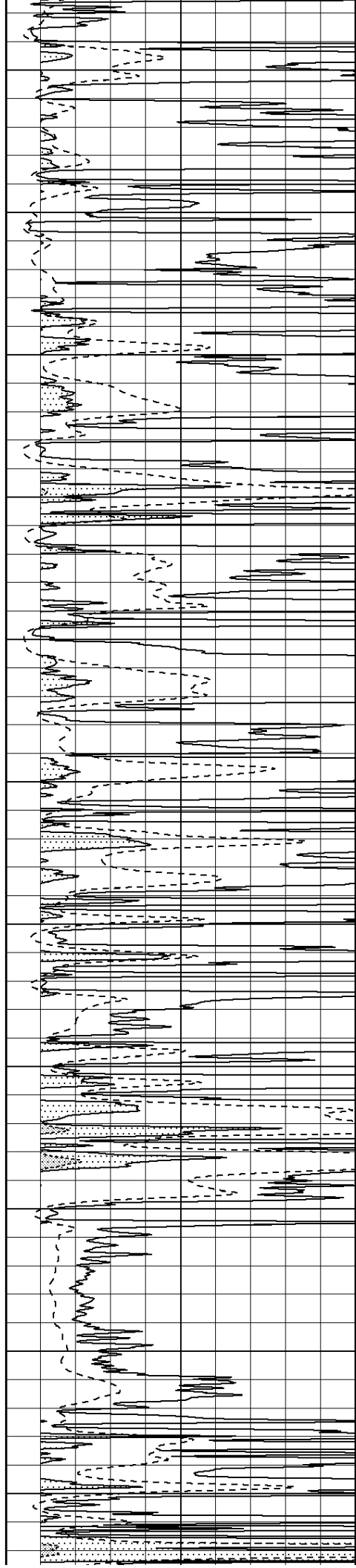
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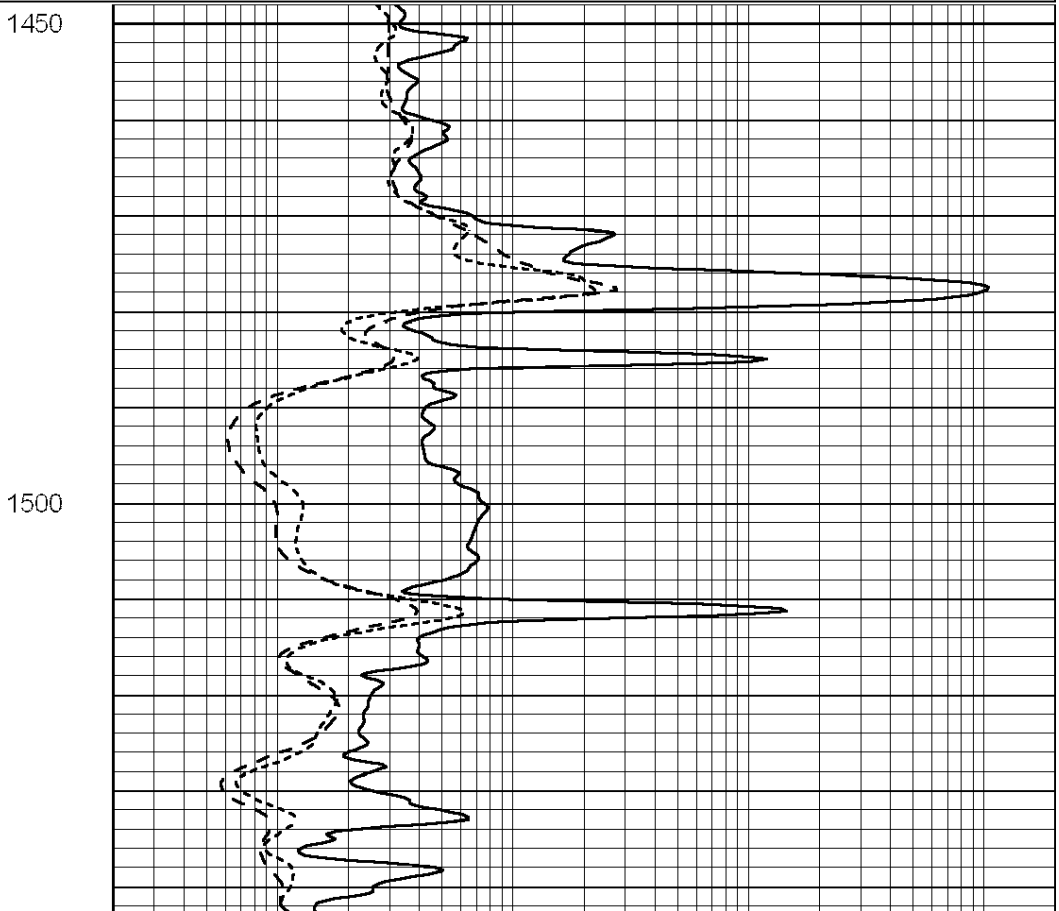
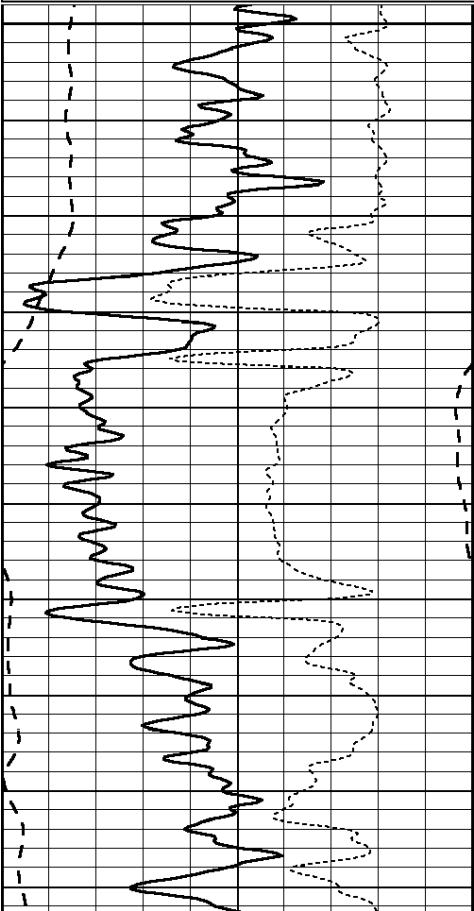
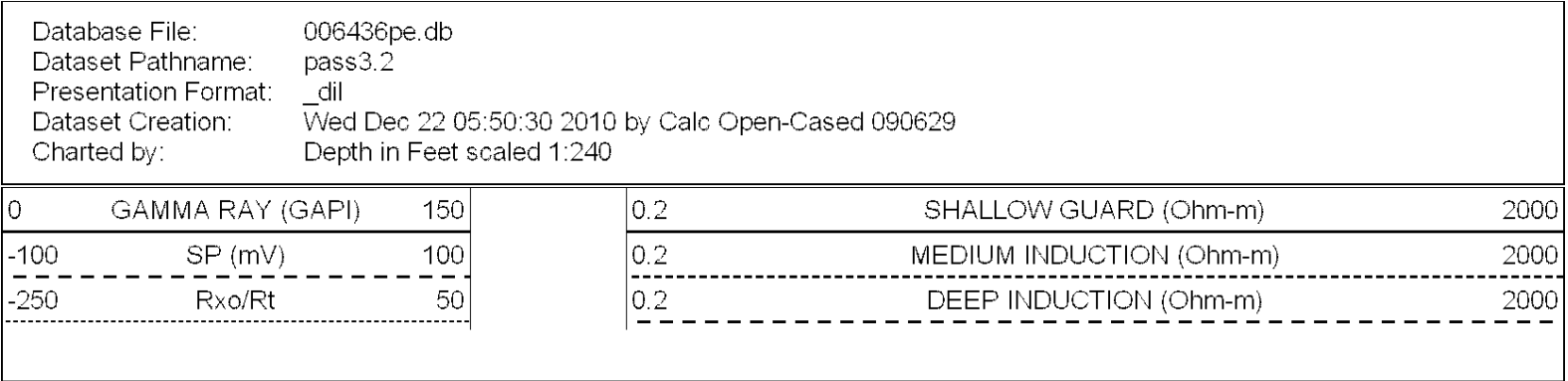
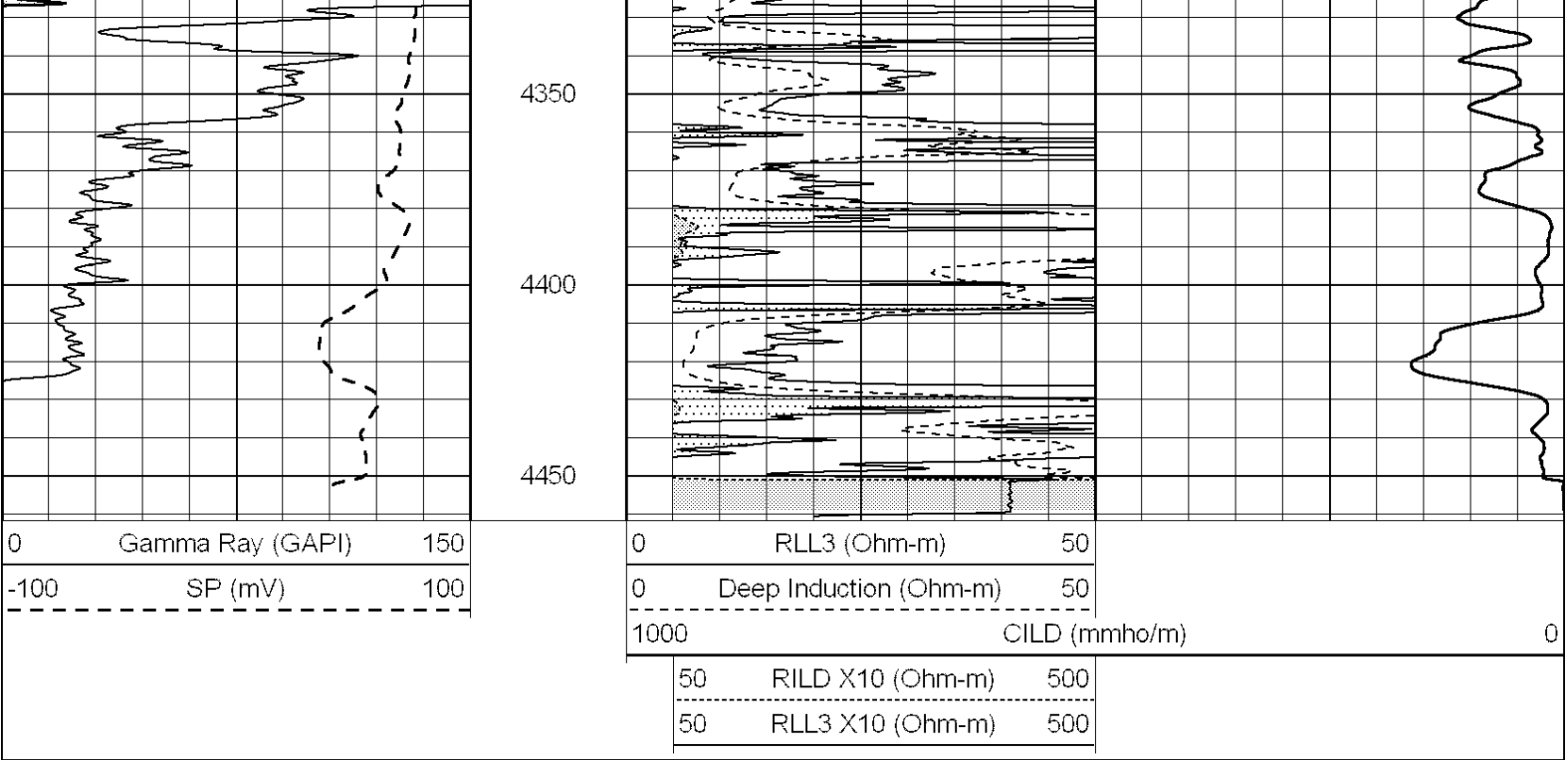
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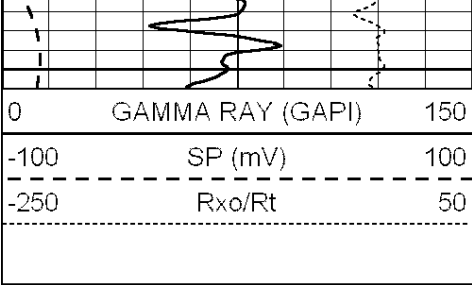
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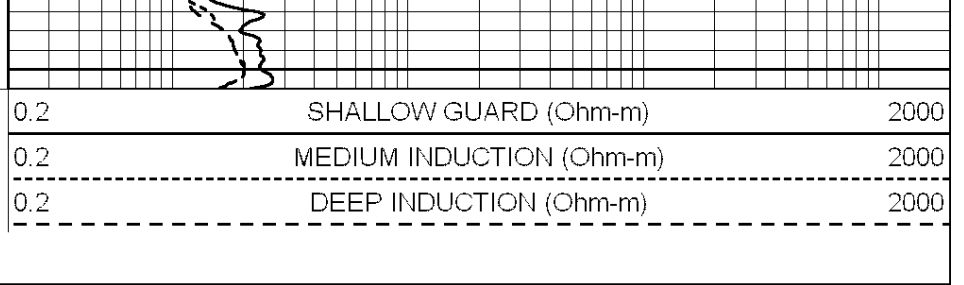
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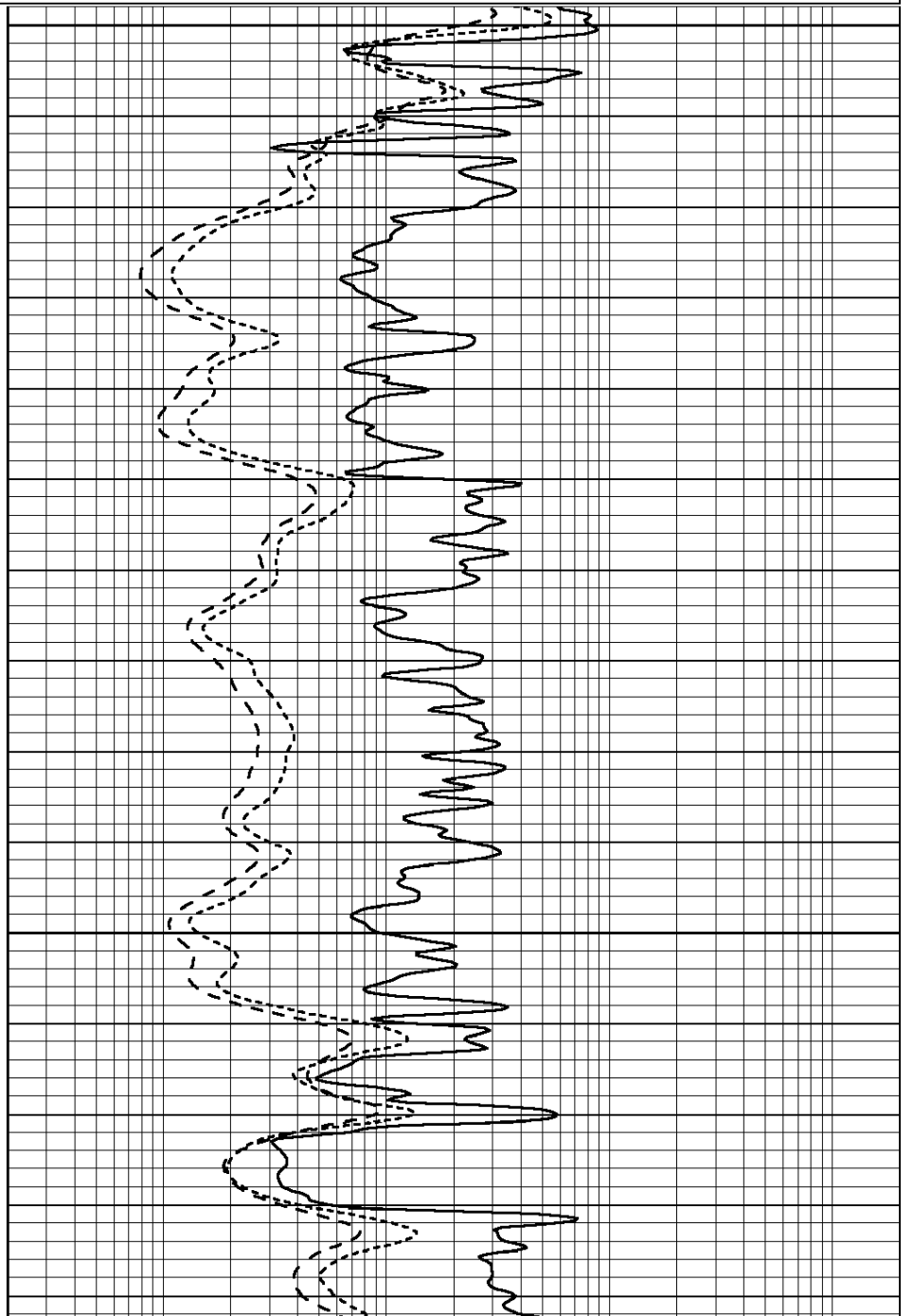
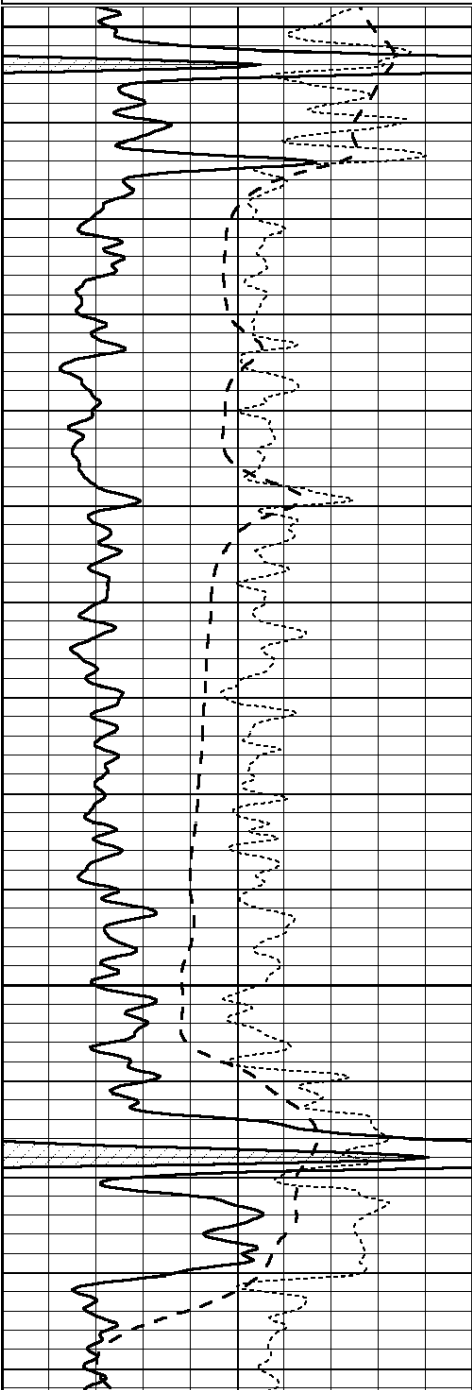
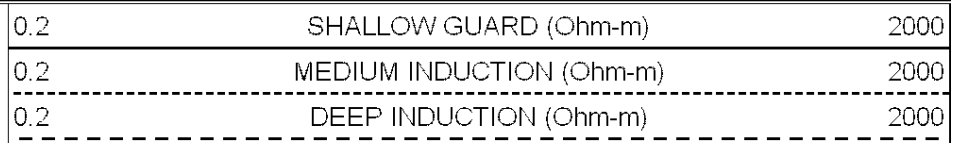
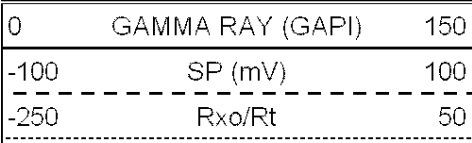


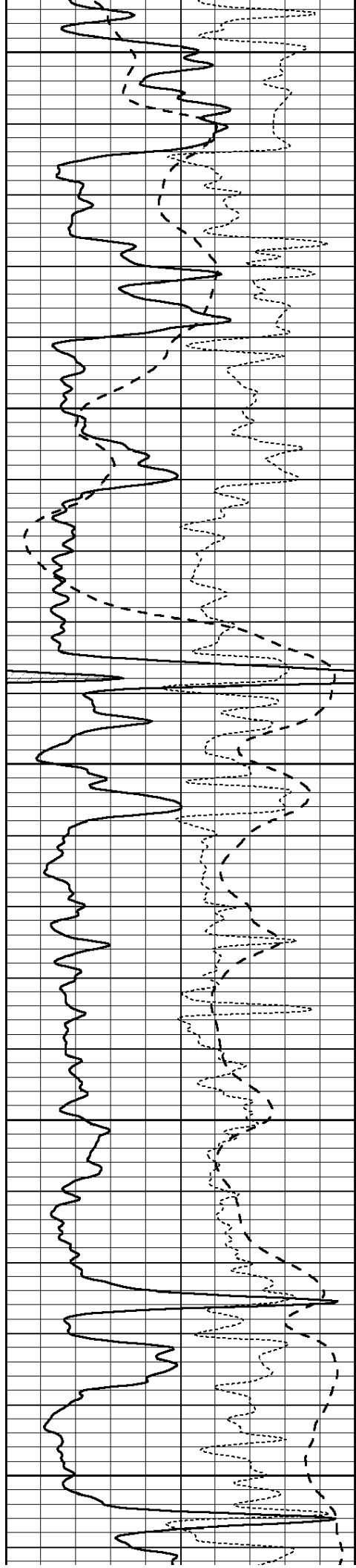


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Charted by: Depth in Feet scaled 1:240





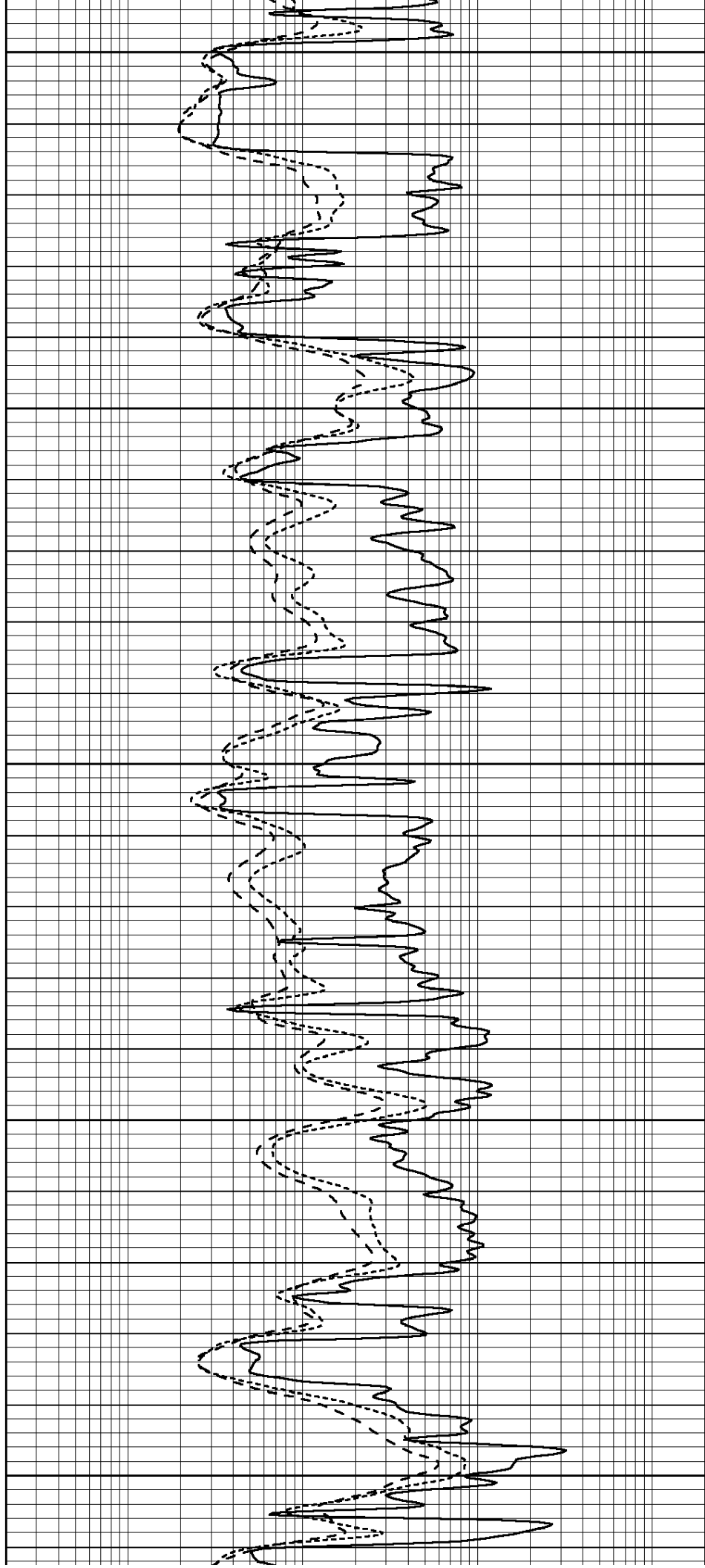
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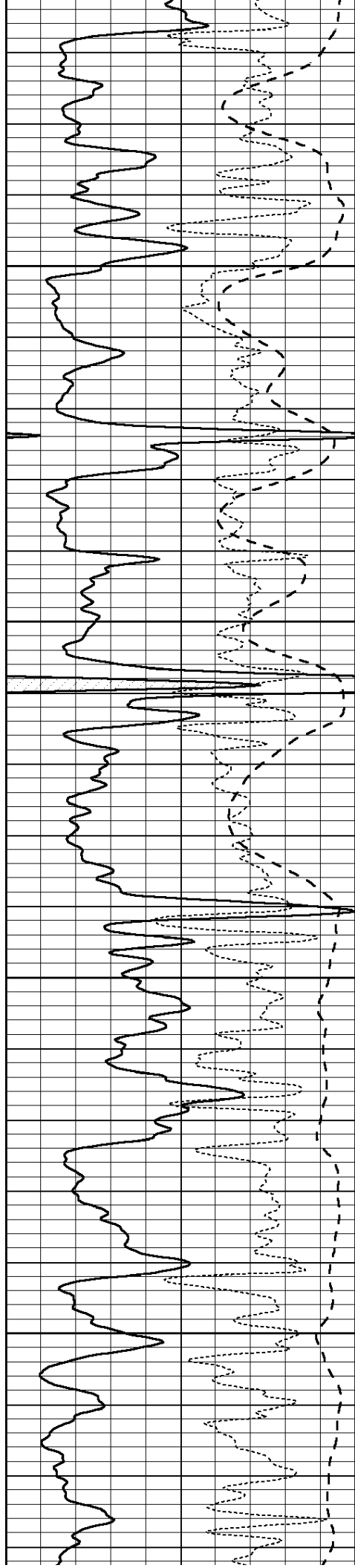
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3900

3950



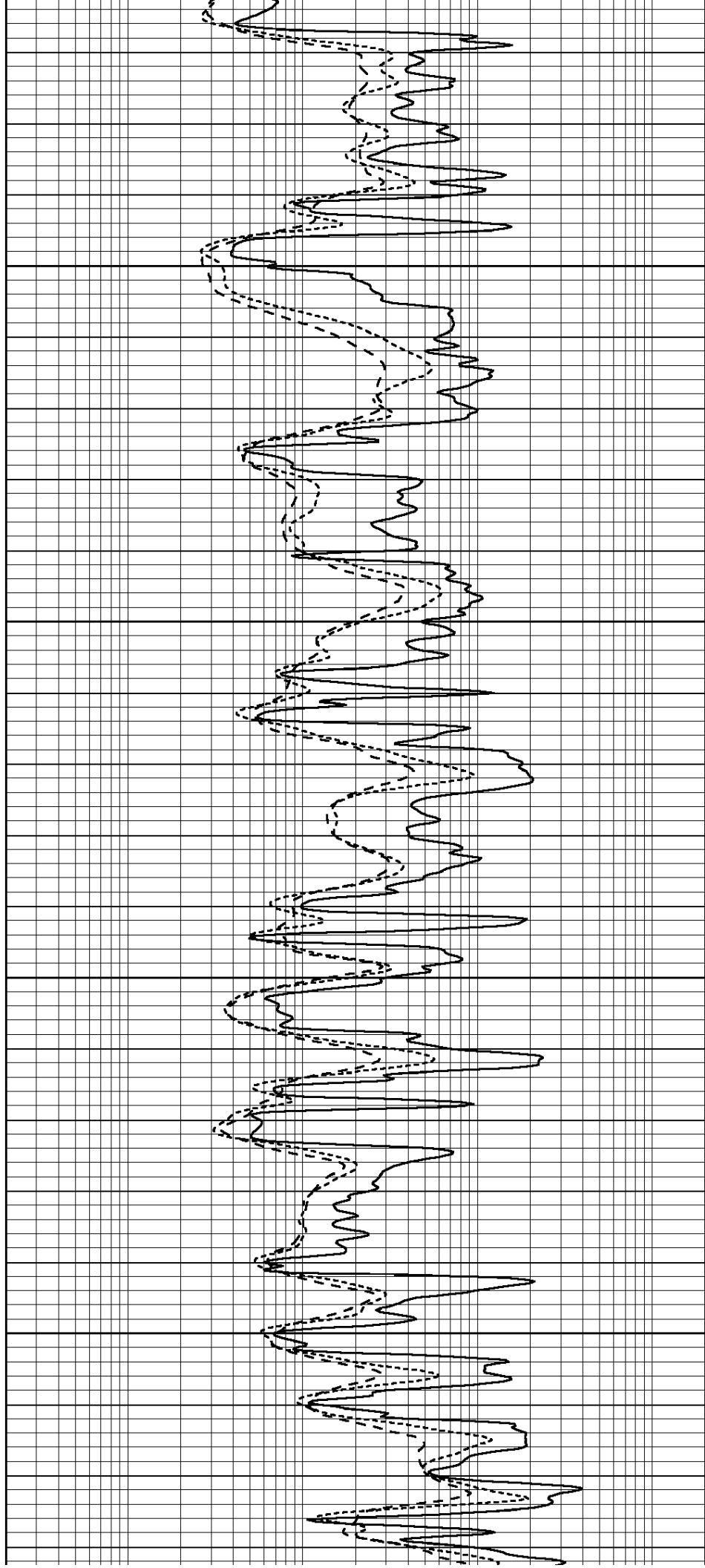


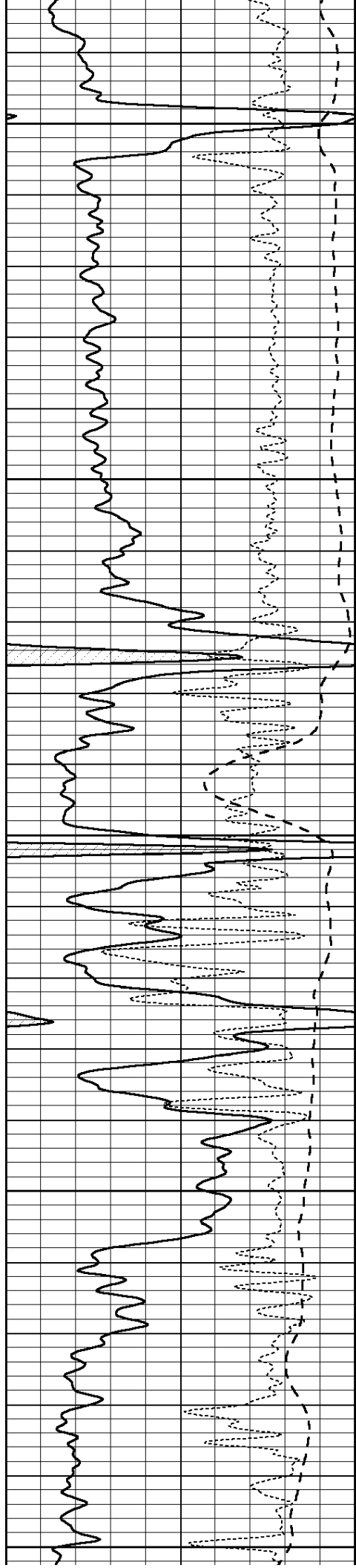
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4050

4100

4150





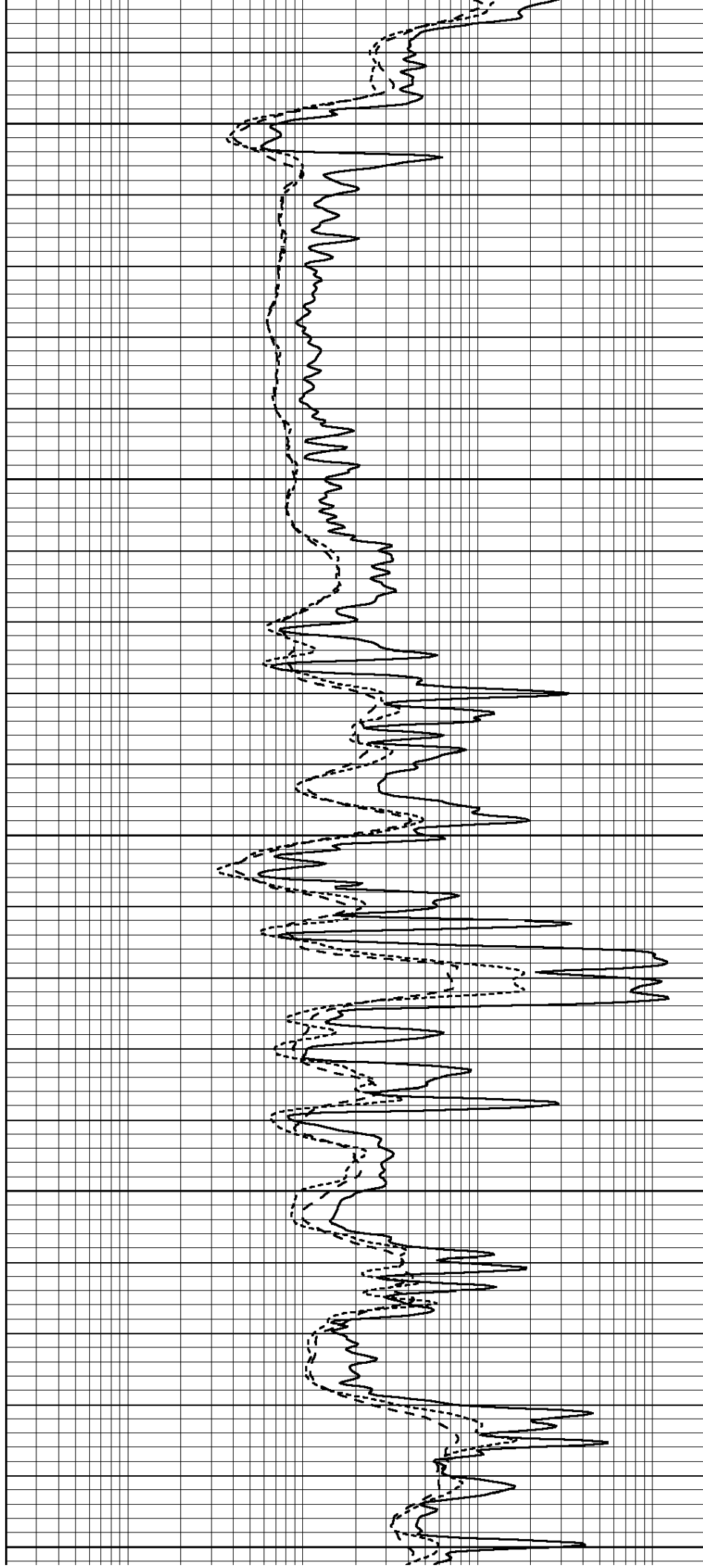
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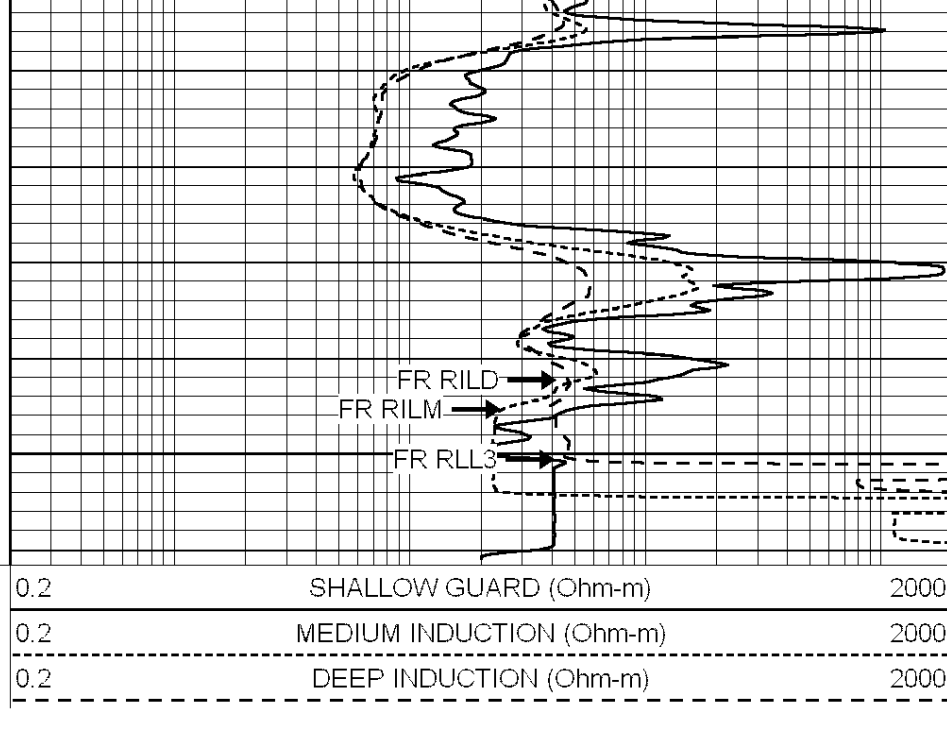
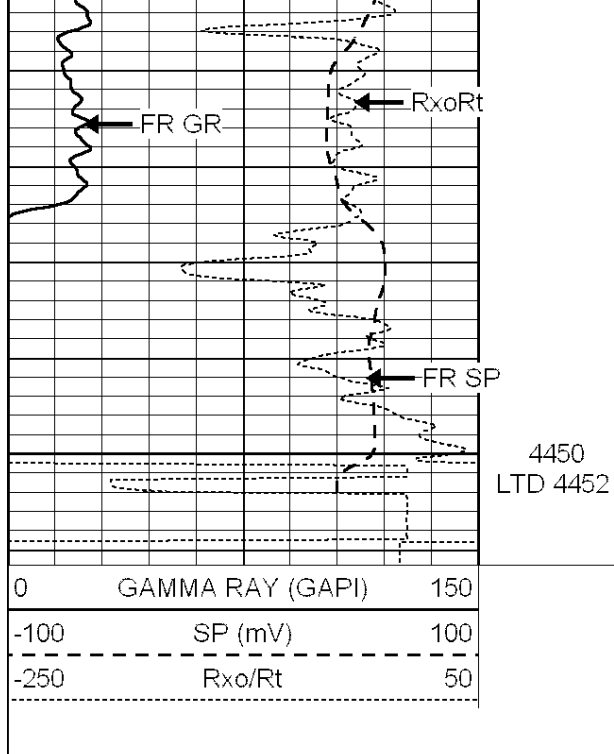
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4300

4350

4400

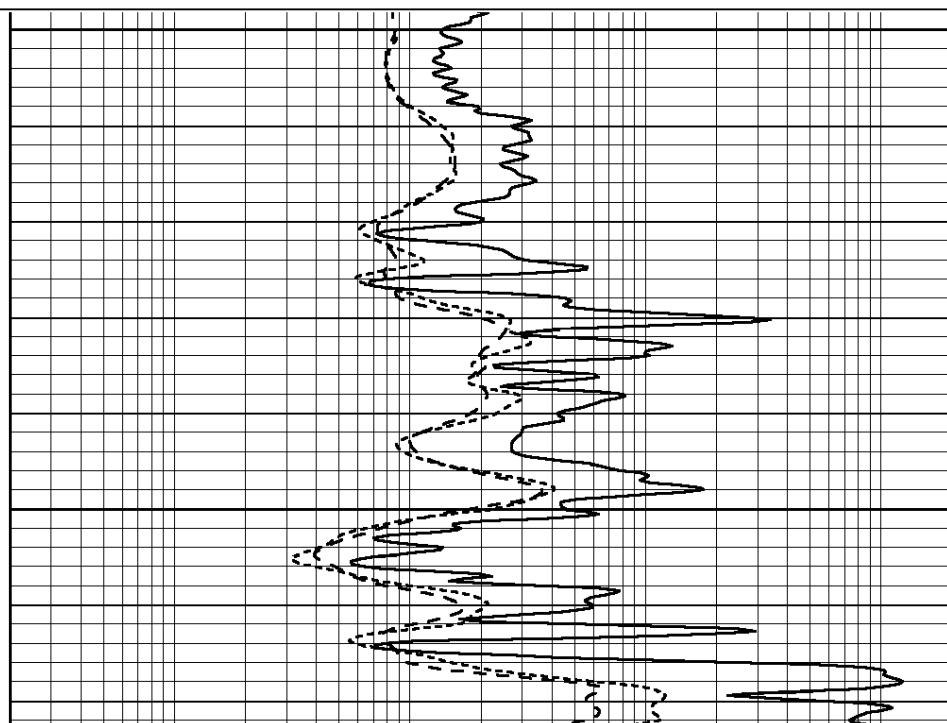
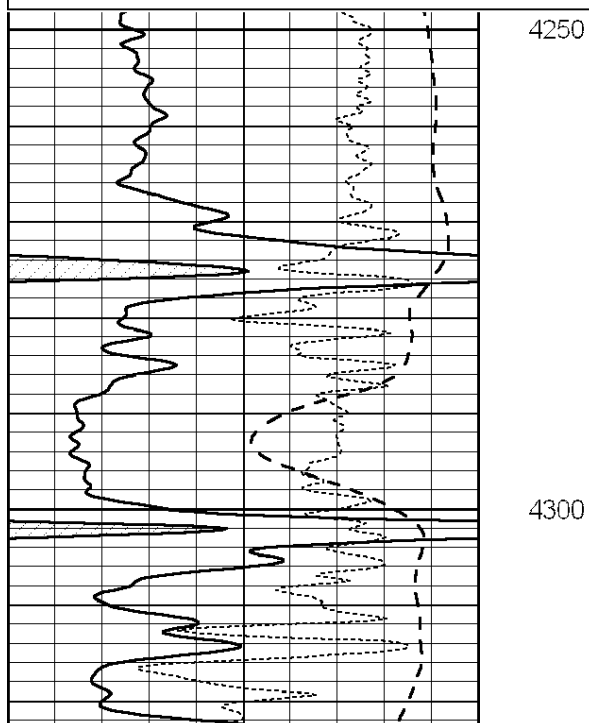
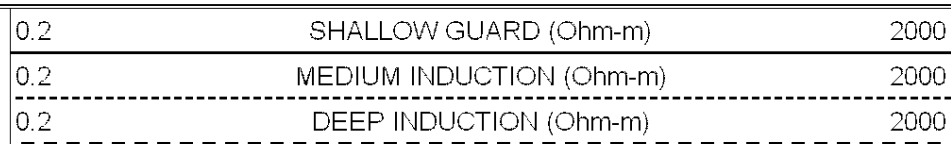
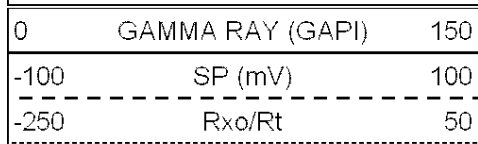


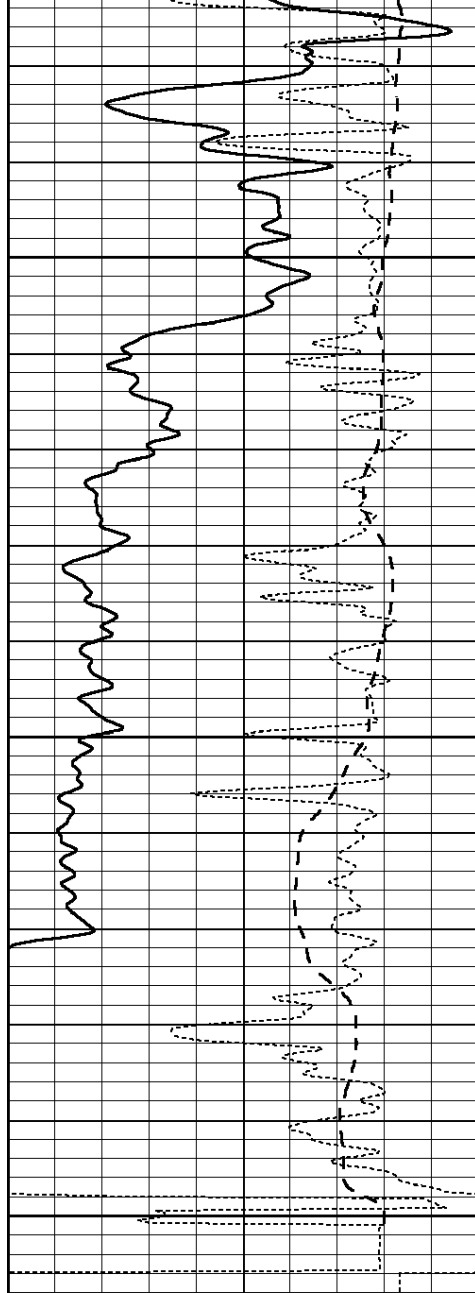


SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 006436pe.db
 Dataset Pathname: pass2.2
 Presentation Format: _dil
 Dataset Creation: Wed Dec 22 04:40:58 2010 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



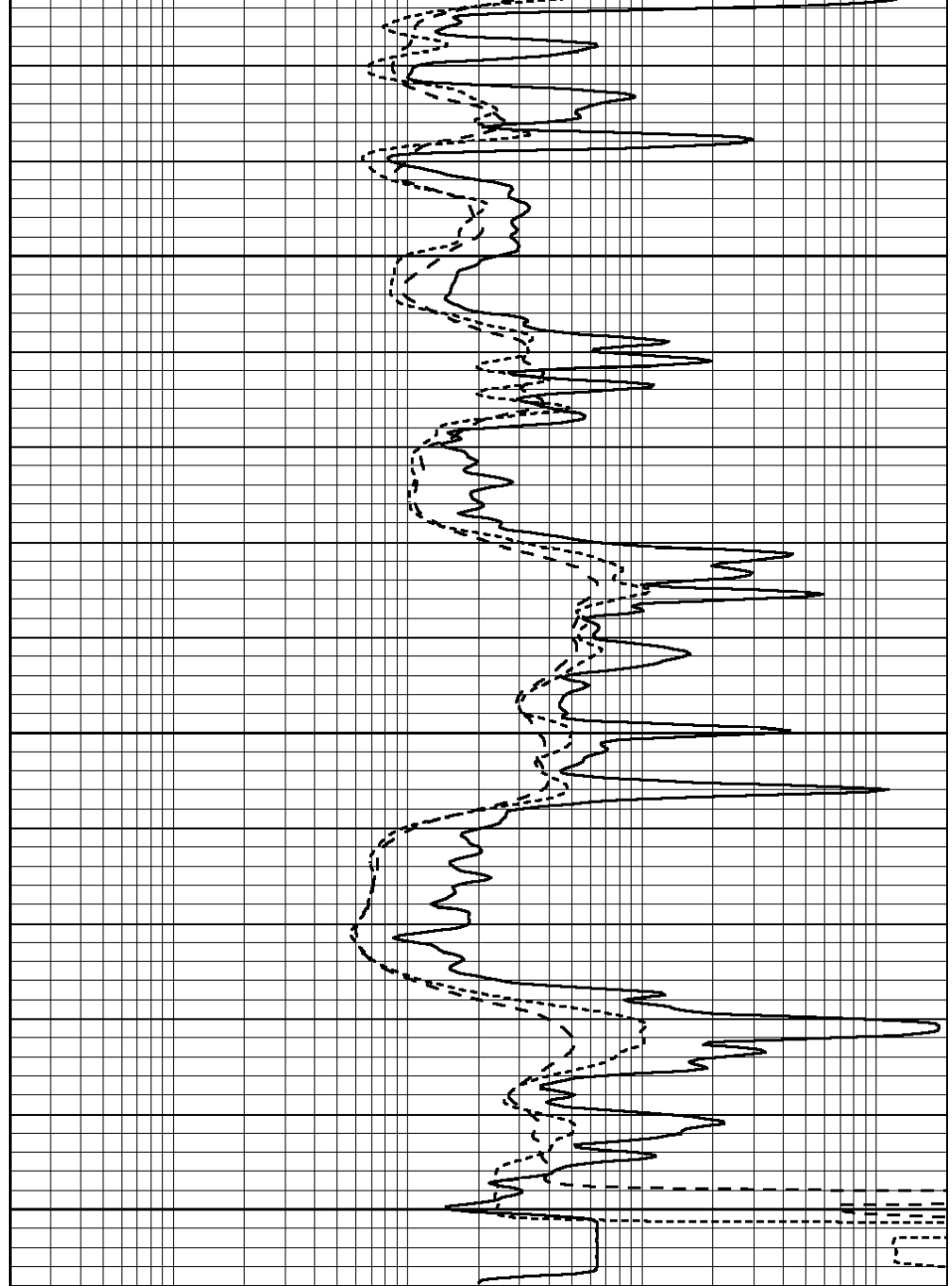


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

4350

4400

4450



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: 006436pe.db
 Dataset Pathname: pass3.2
 Dataset Creation: Wed Dec 22 05:50:30 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

Surface Calibration

Readings		References		Results	
Loop:	Air	Loop	Air	Loop	b
Deep	-0.014	0.629	0.000	400.000	8.759

mmho/m

621.923

Serial Number:	GR6
Tool Model:	OPEN
Performed:	Wed Jul 14 14:14:30 2010

Calibrator Value:	150.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	276.0	cps

Sensitivity:	0.6535	GAPI/cps
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