



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	RAYMOND OIL COMPANY, INC.		
Well	#1 ROSE "A"		
Field	WILDCAT		
County	LOGAN		
State	KANSAS		
Location:	API #: 15-109-20852		
1143' SL & 1834' FEL			
SEC 2 TWP 14S RGE 32W			
Permanent Datum	GROUND LEVEL	Elevation	2843
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		
			Other Services CDL/CNL SONIC/MEL
Elevation			K.B. 2848 D.F. G.L. 2843

Date	8-8-09		
Run Number	ONE		
Depth Driller	4599		
Depth Logger	4598		
Bottom Logged Interval	4596		
Top Log Interval	00		
Casing Driller	260		
Casing Logger	260		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 49		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.50 @ 92F		
Rinf @ Meas. Temp	0.38 @ 92F		
Rmc @ Meas. Temp	0.60 @ 92F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.380 @ 121F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	KIM SHOEMAKER		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: OAKLEY, 18S TO MM#133, E INTO.



SUPERIOR
Hays,
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MAIN SECTION

Database File: 000715ddn.db
Dataset Pathname: pass3.1
Presentation Format: dil2
Dataset Creation: Sat Aug 08 04:11:08 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:600

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

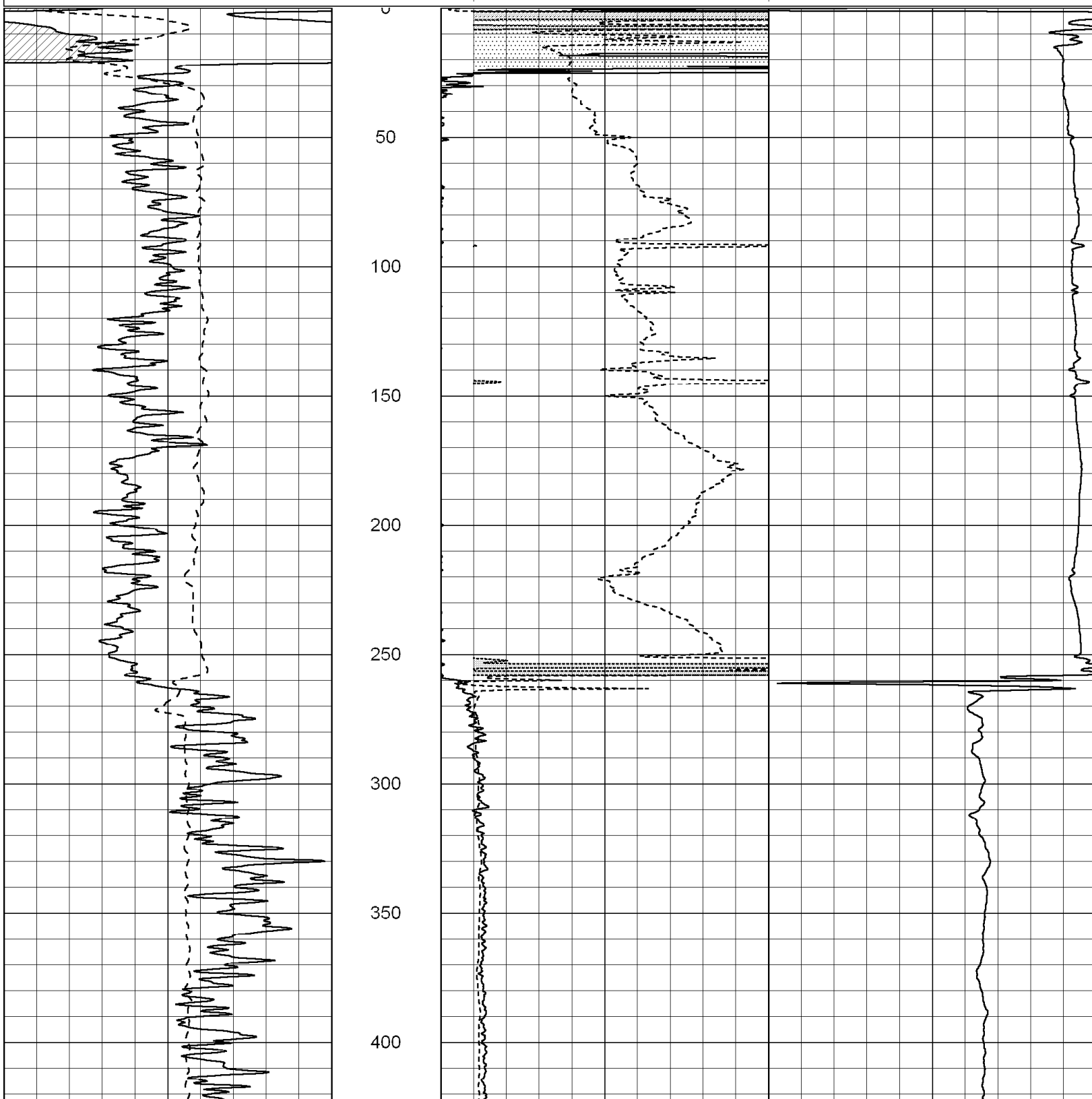
0	RLL3 (Ohm-m)	50
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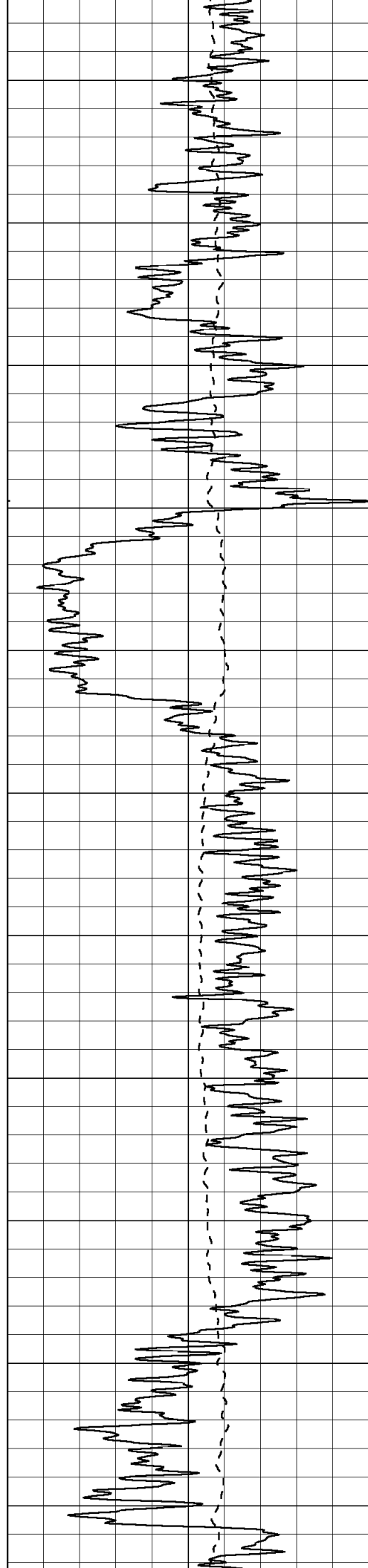
0	Deep Induction (Ohm-m)	50
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1000	CILD (mmho-m)	0
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50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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450

500

550

600

650

700

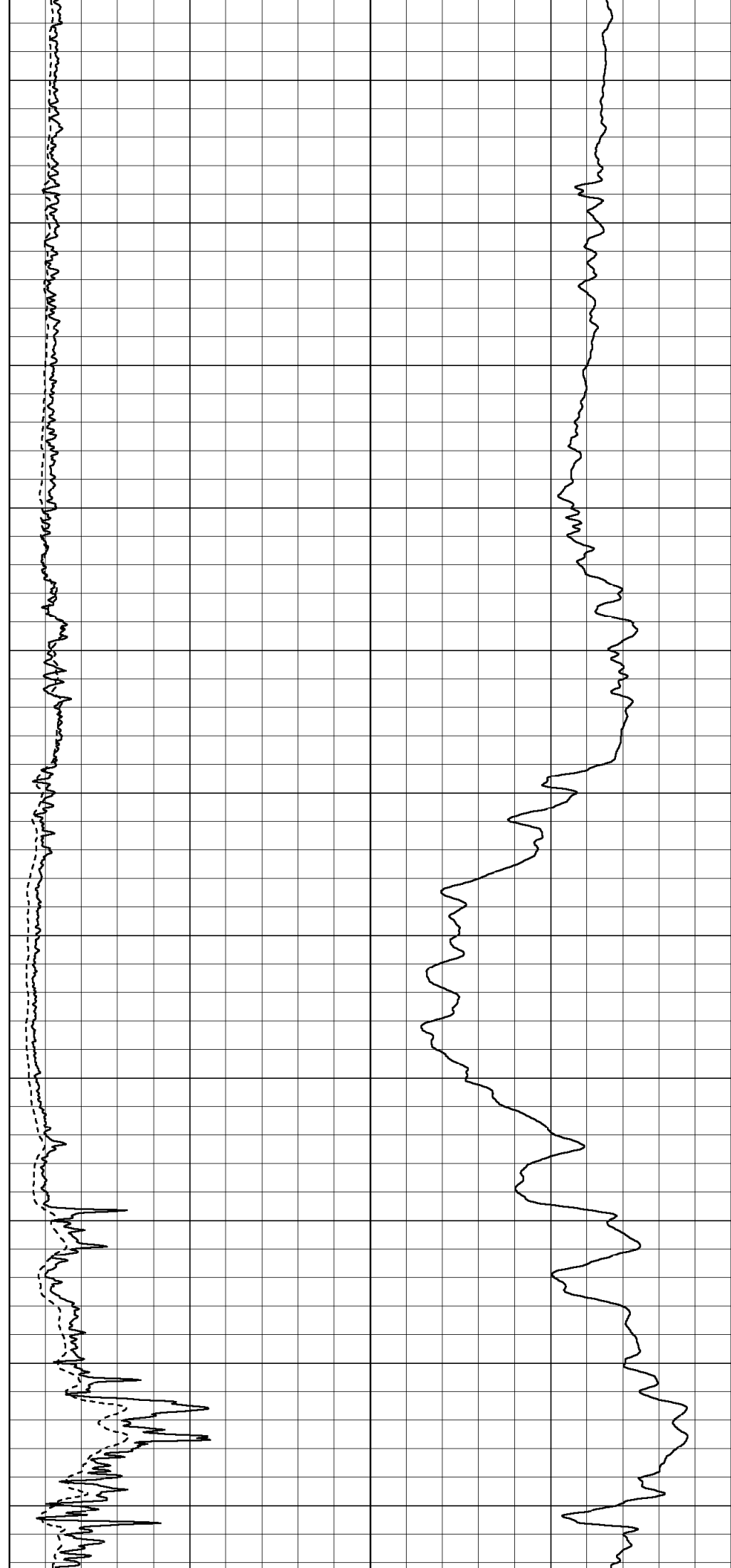
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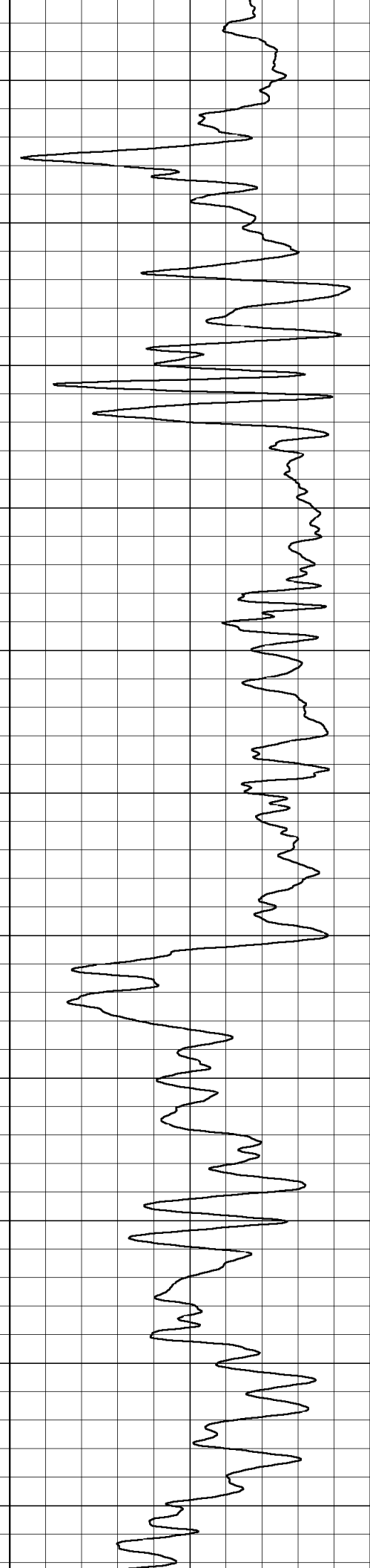
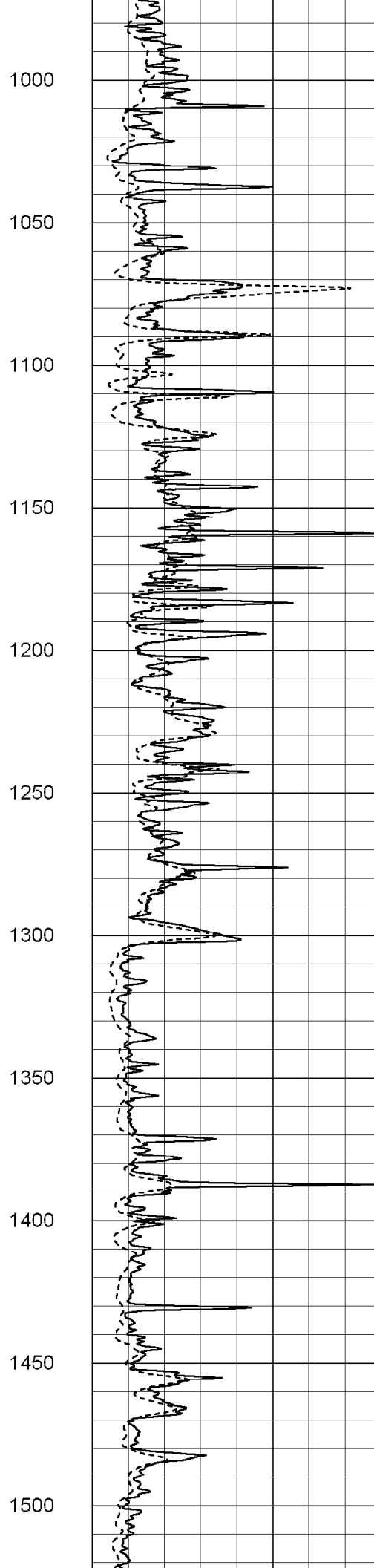
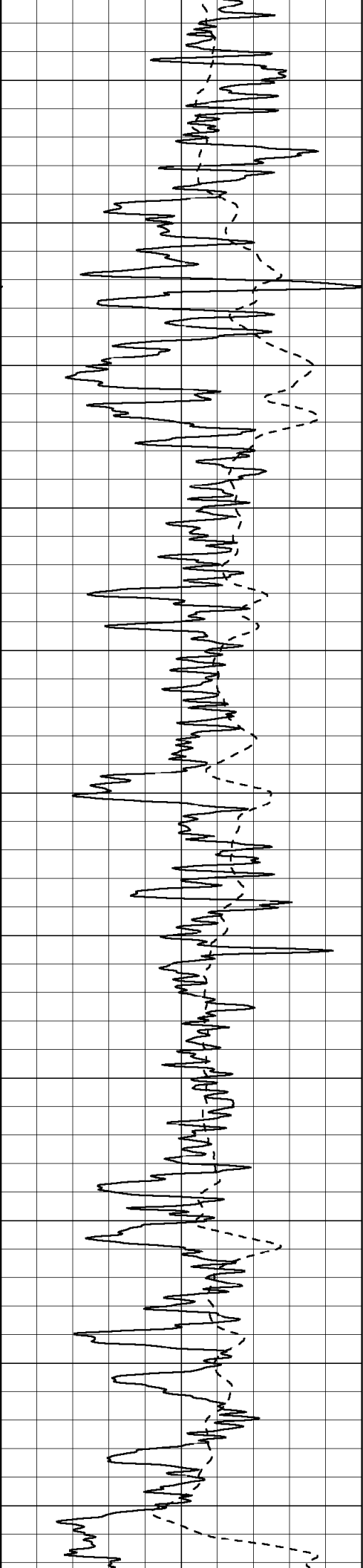
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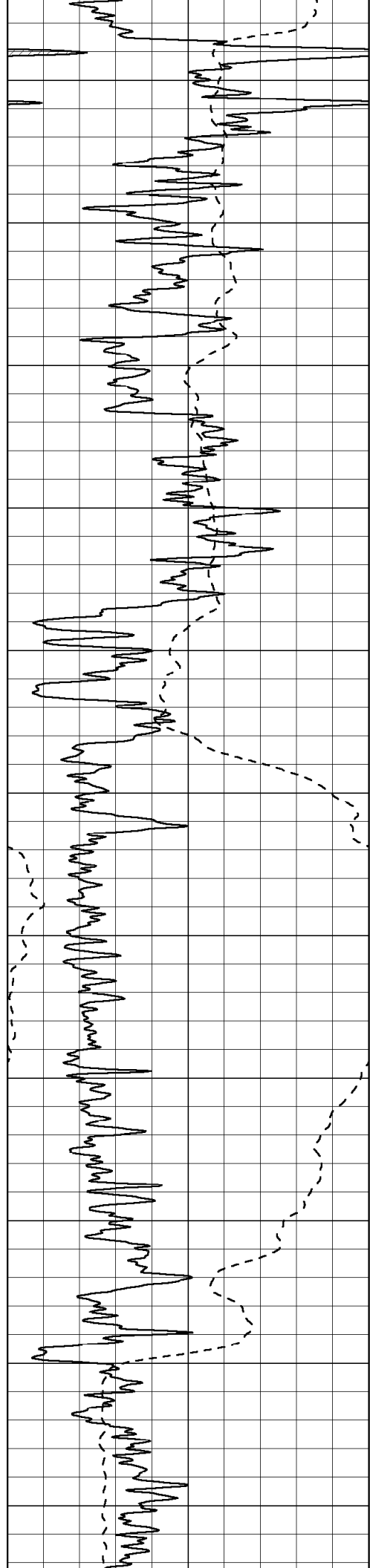
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900

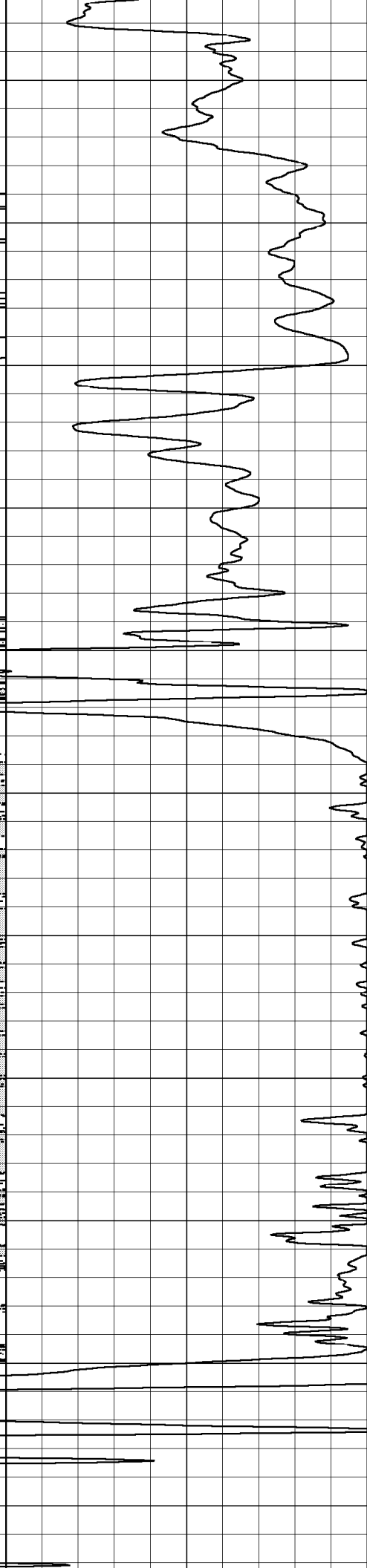
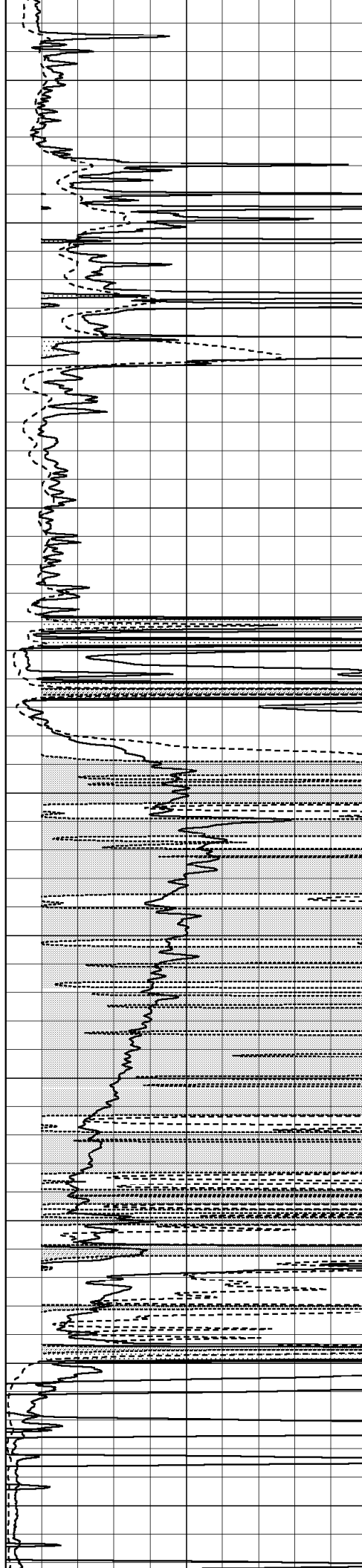
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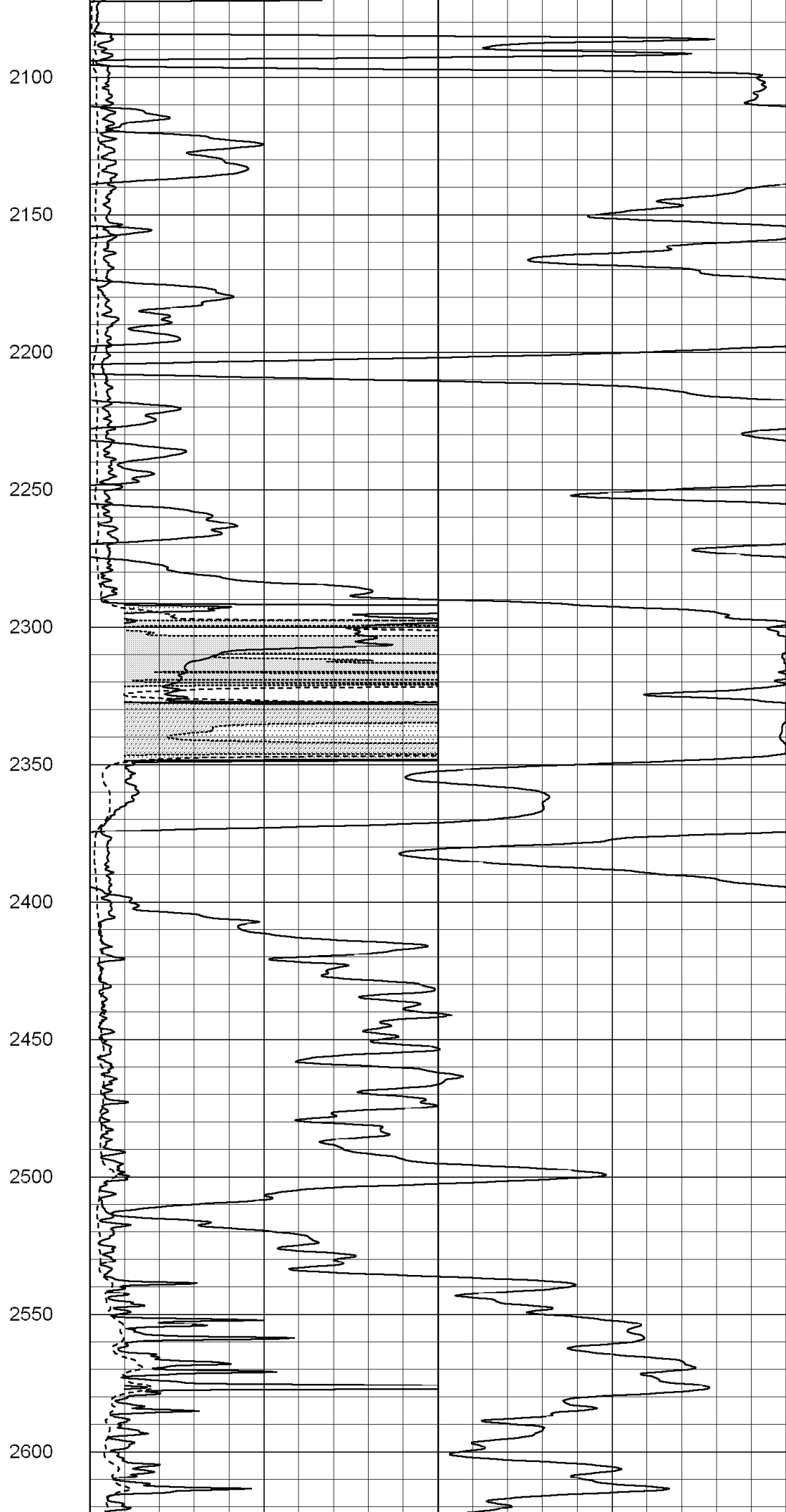
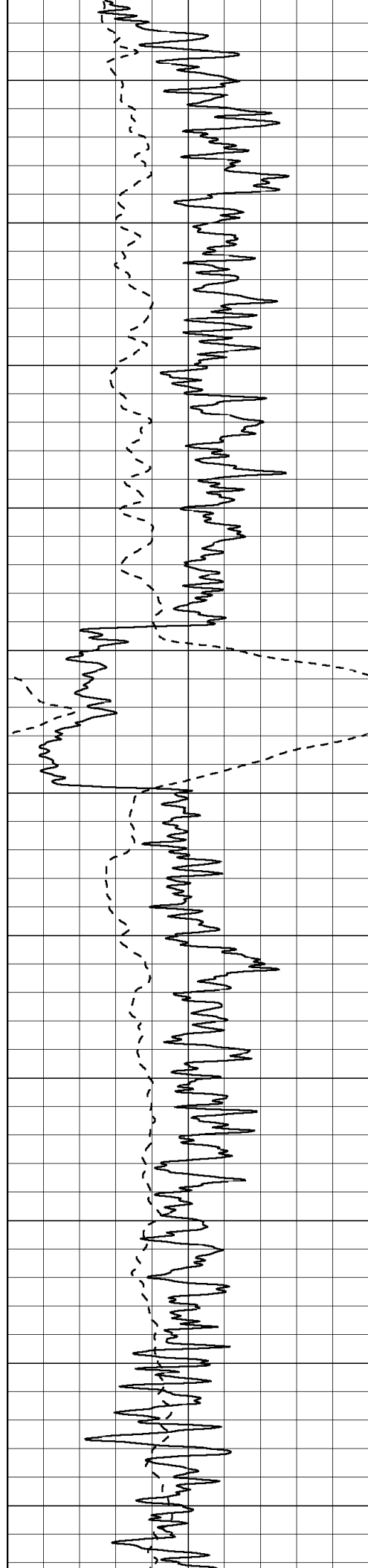


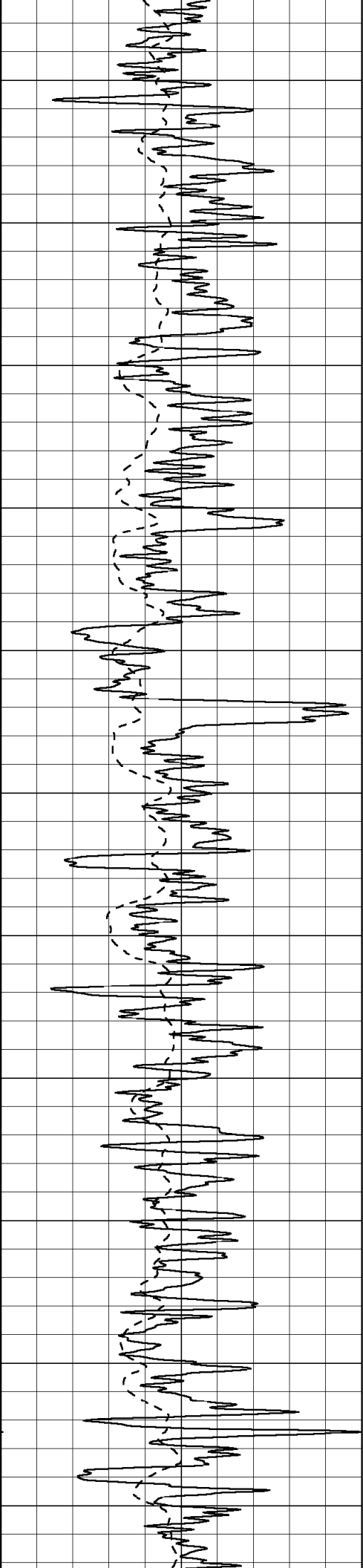




1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050







2650

2700

2750

2800

2850

2900

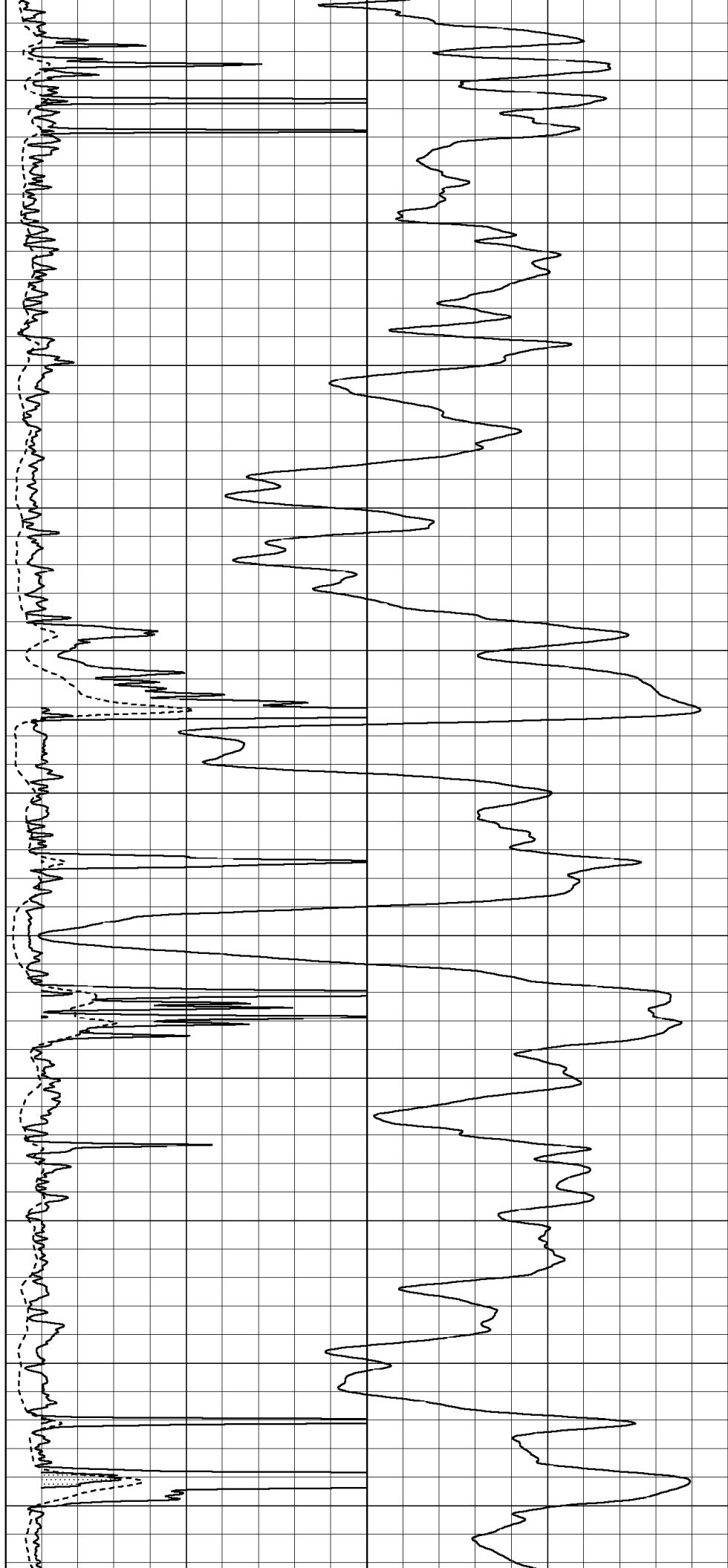
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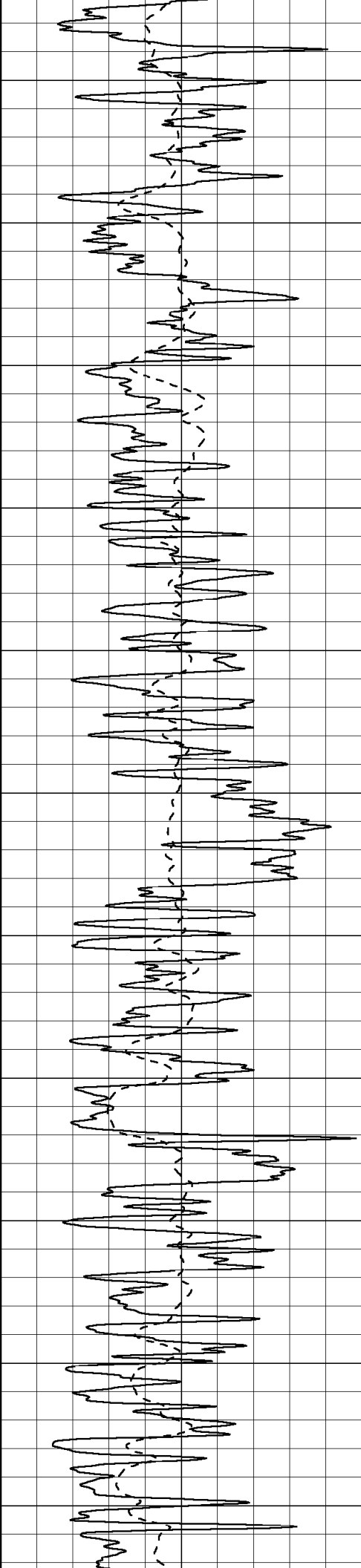
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3050

3100

3150





3200

3250

3300

3350

3400

3450

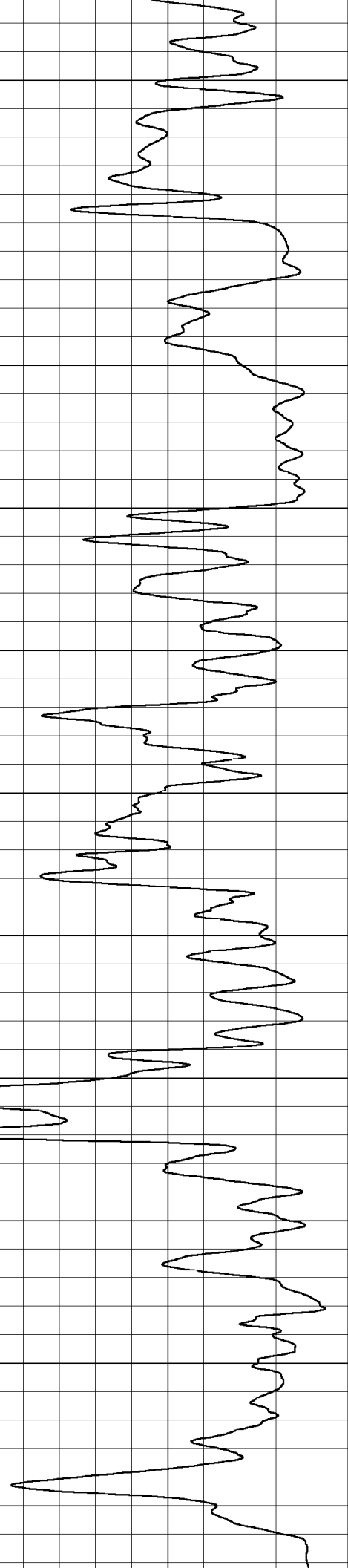
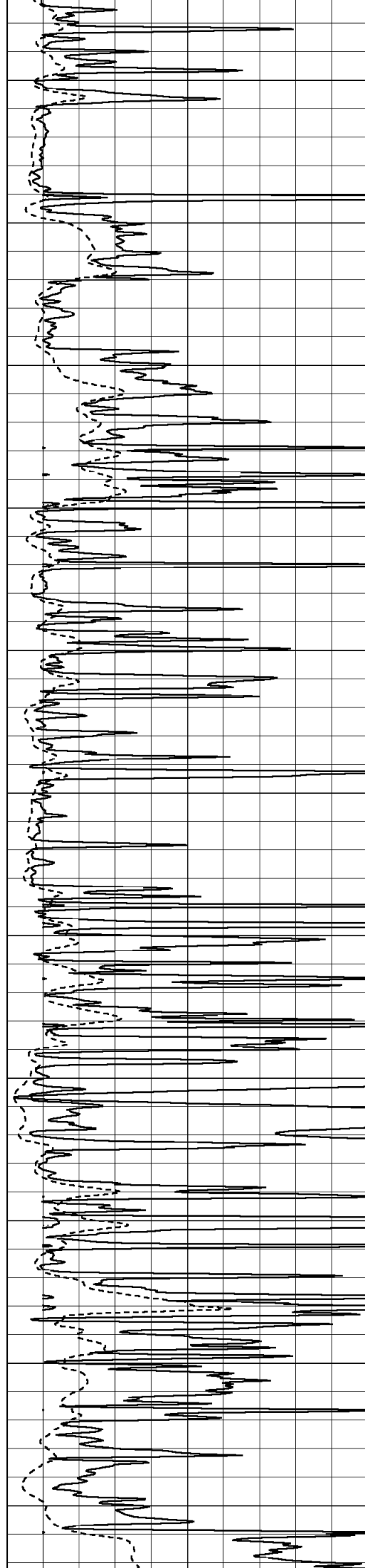
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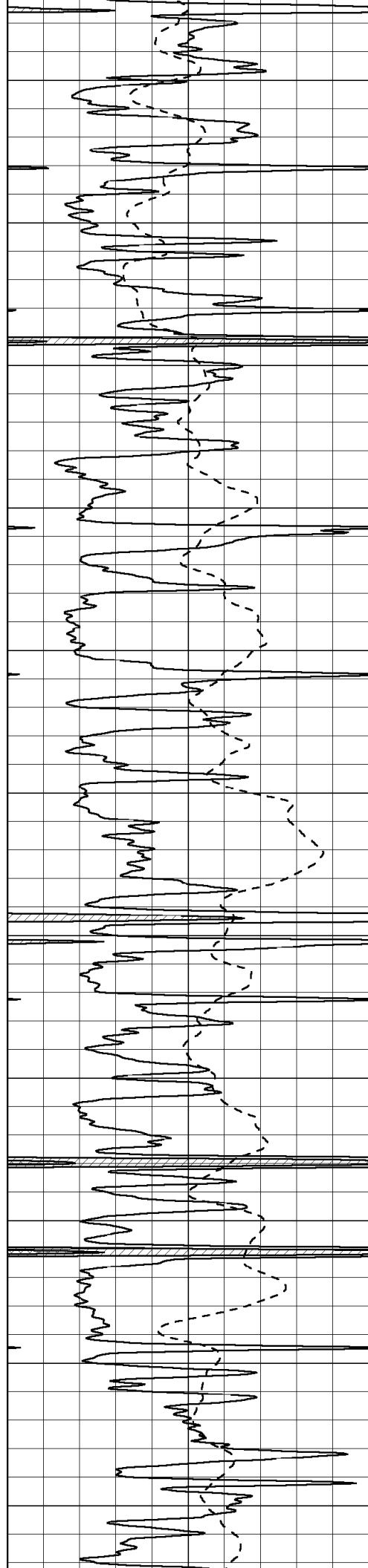
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3650

3700





3750

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3850

3900

3950

4000

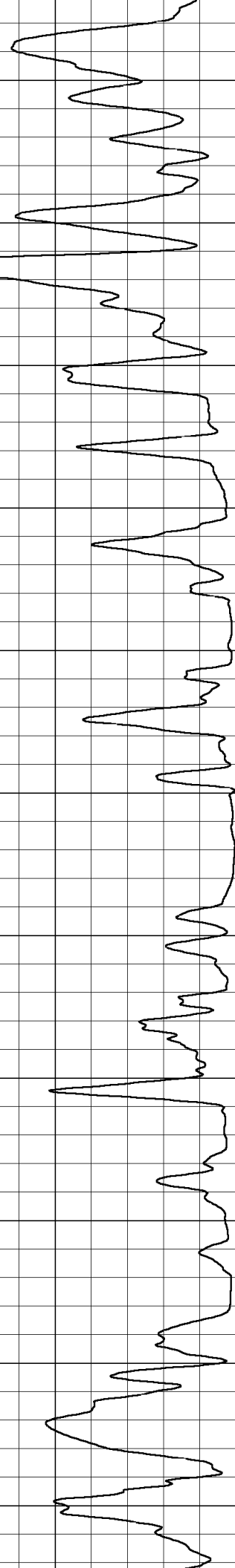
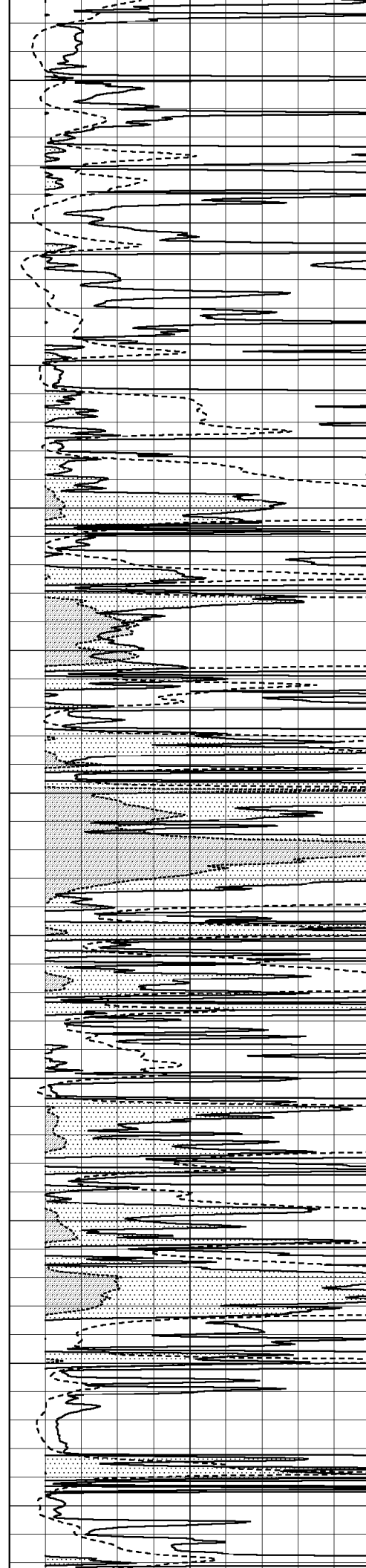
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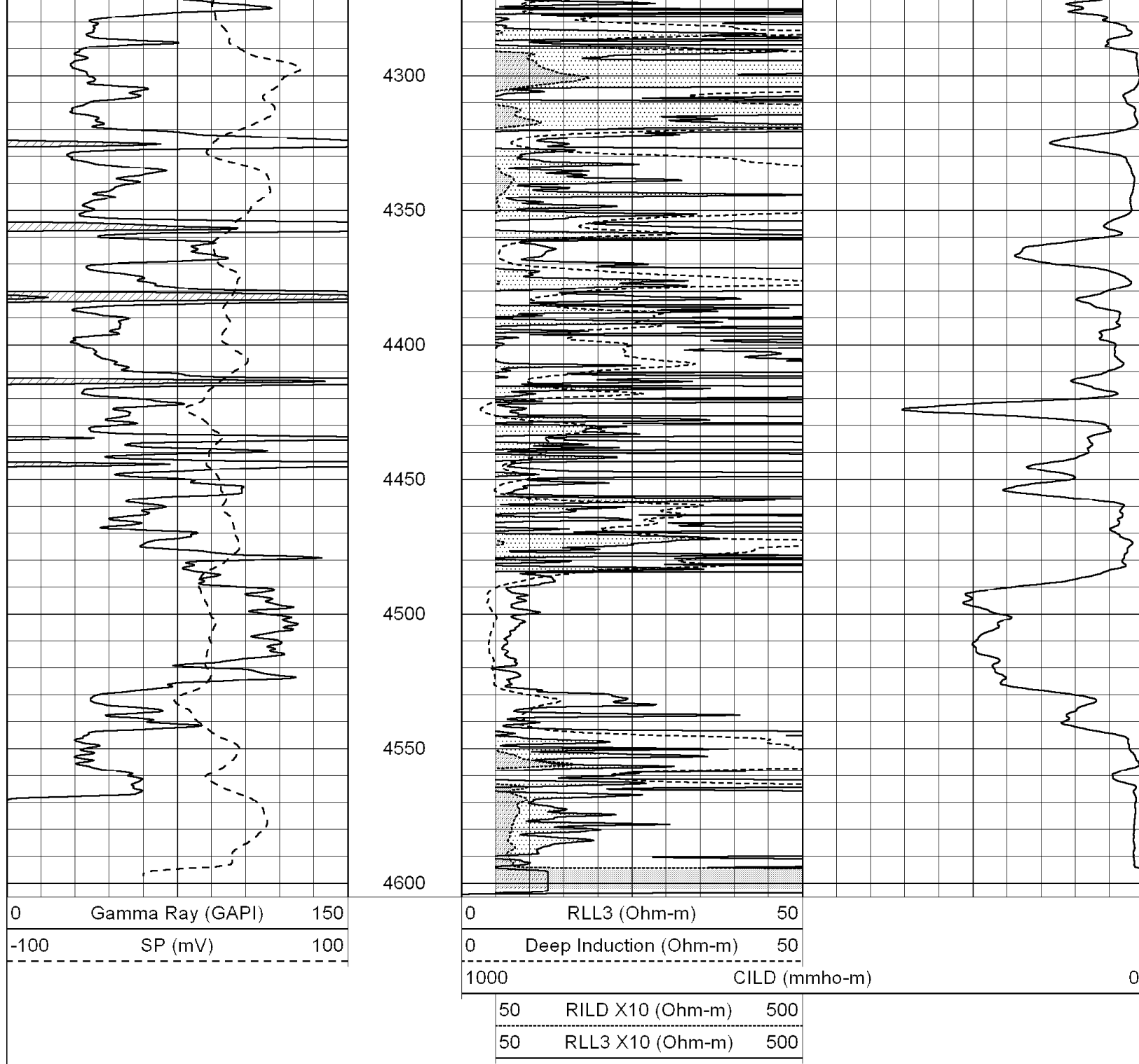
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4150

4200

4250



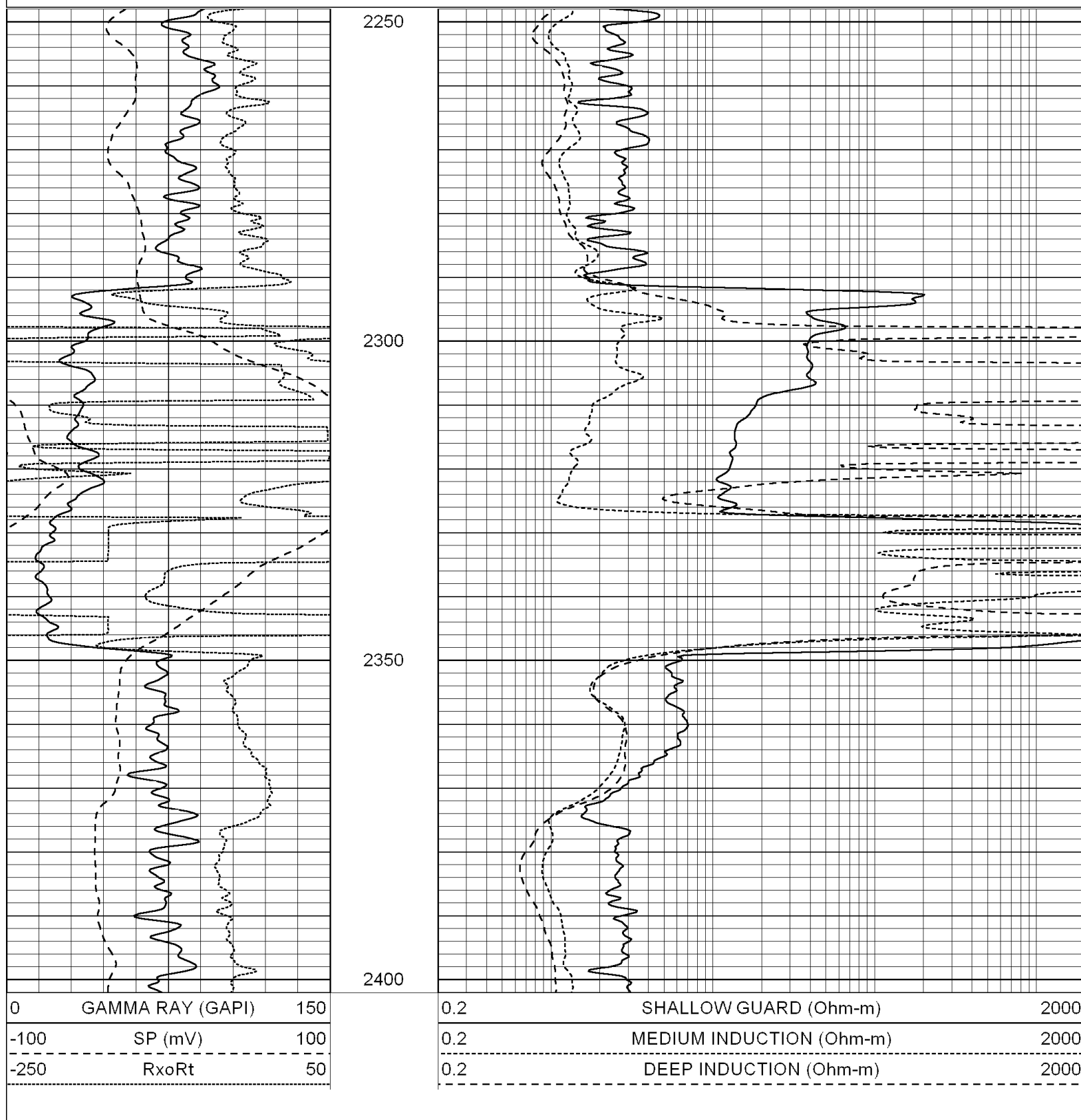


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MAIN SECTION

Database File: 000715ddn.db
 Dataset Pathname: pass3.1
 Presentation Format: dil
 Dataset Creation: Sat Aug 08 04:11:08 2009 by Calc Open-Cased 051020
 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	RxoRt	50	0.2	DEEP INDUCTION (Ohm-m)	2000

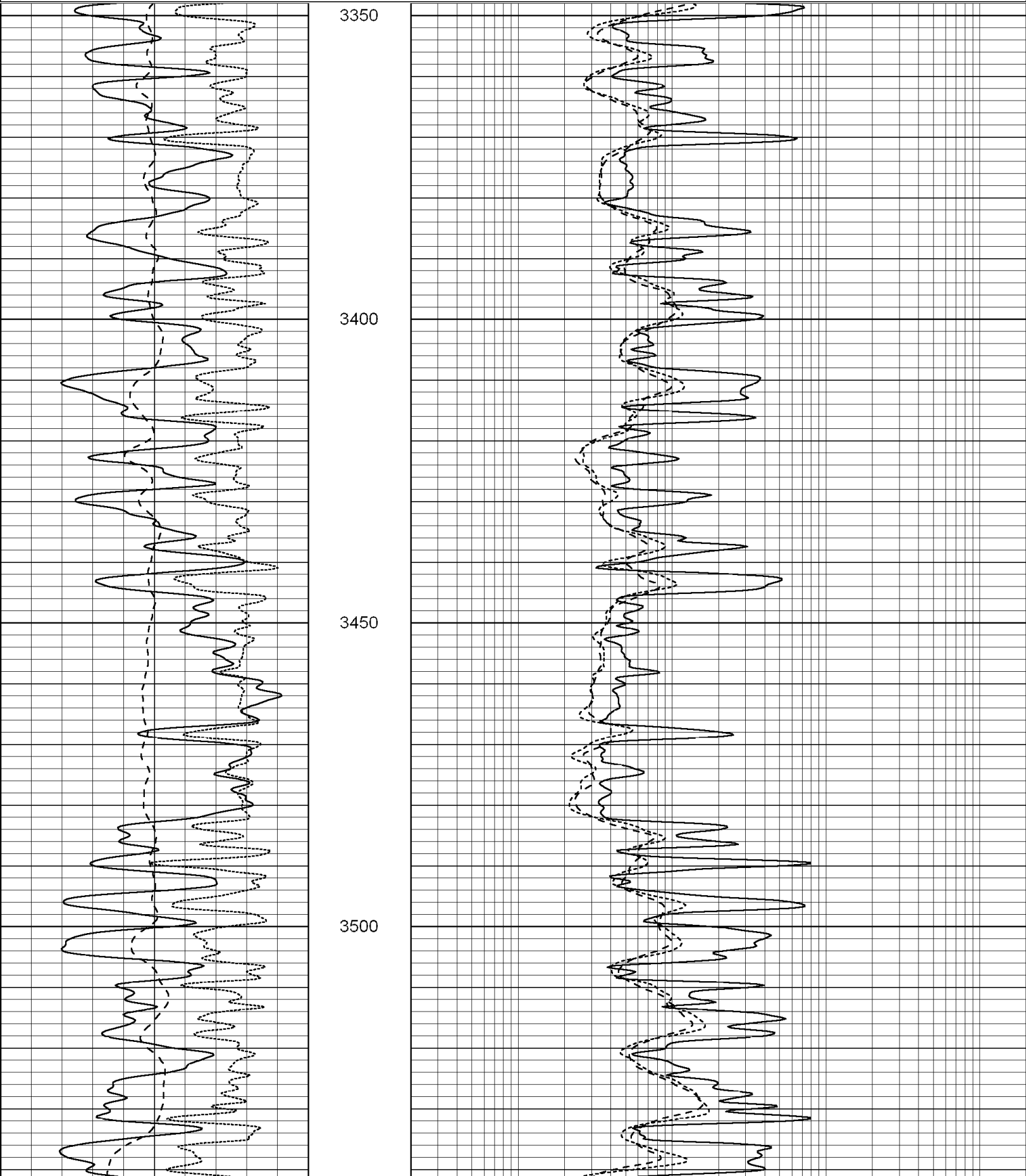


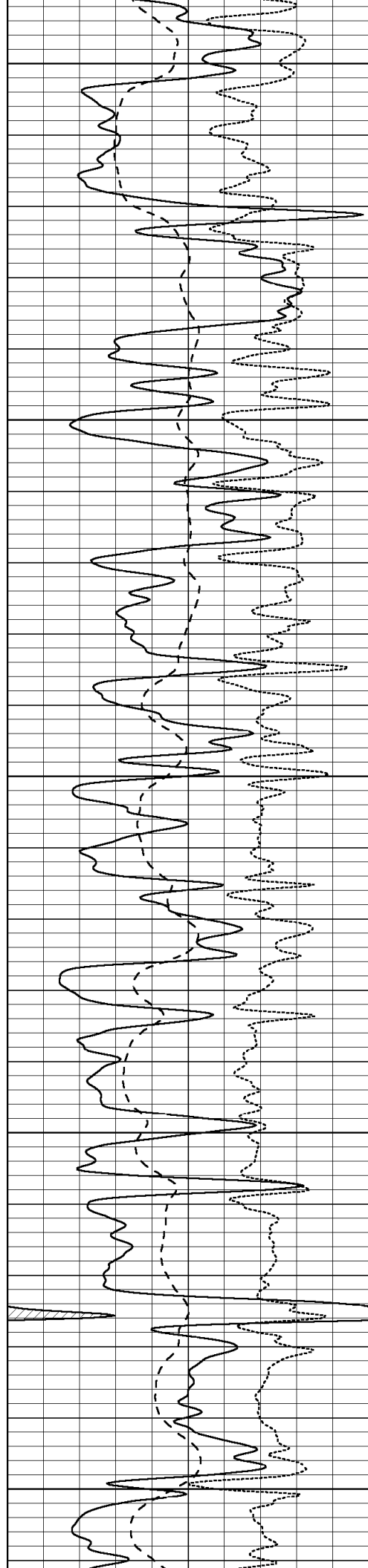
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MAIN SECTION

Database File: 000715ddn.db
Dataset Pathname: pass3.1
Presentation Format: dil
Dataset Creation: Sat Aug 08 04:11:08 2009 by Calc Open-Cased 051020

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	RxoRt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





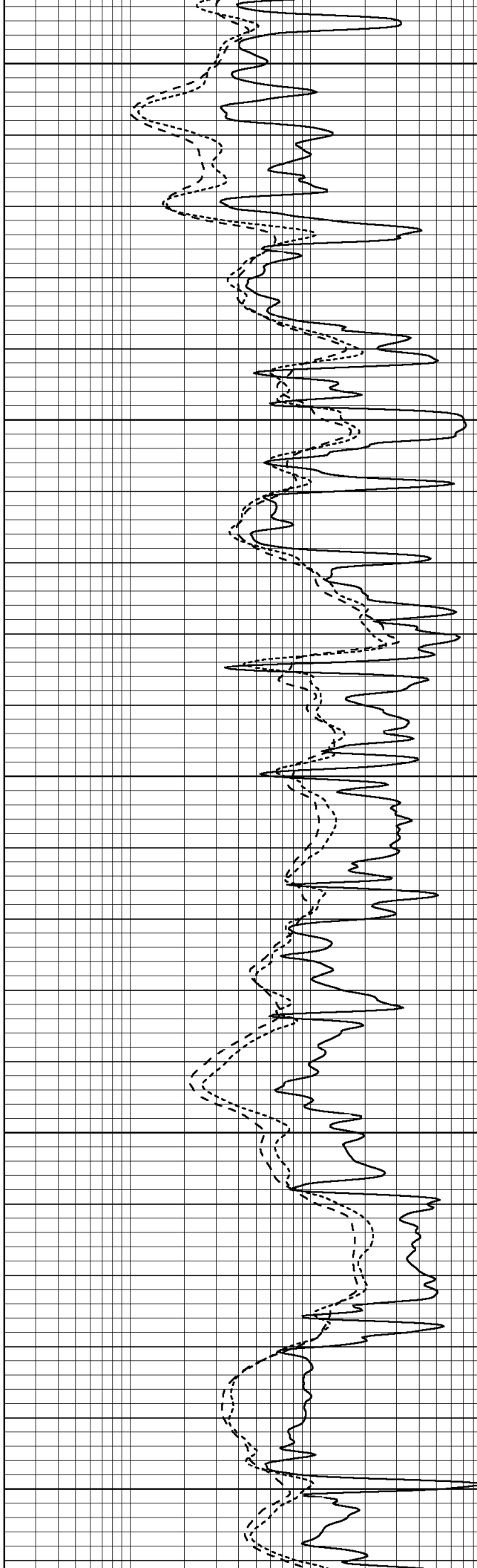
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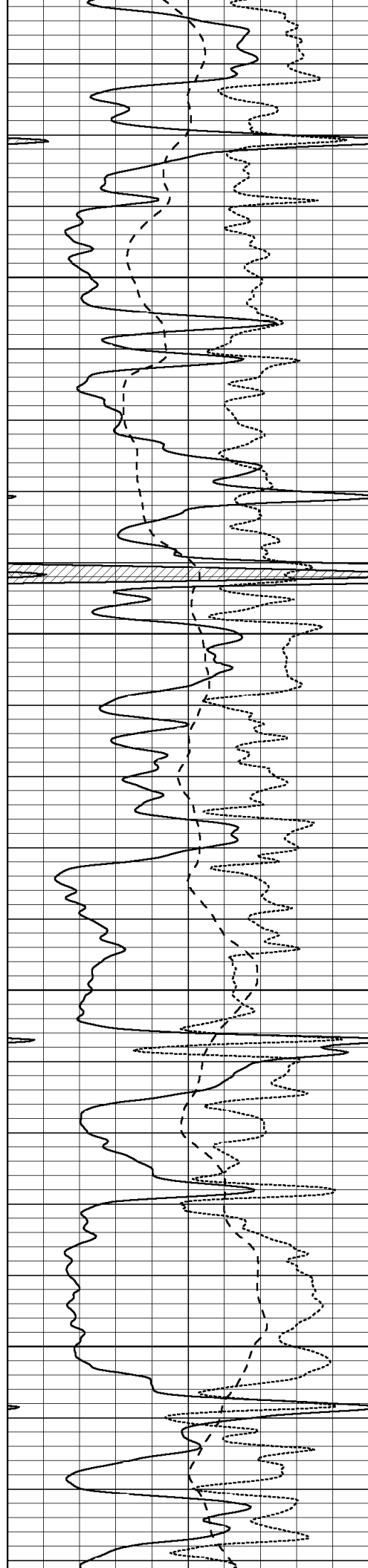
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3700

3750



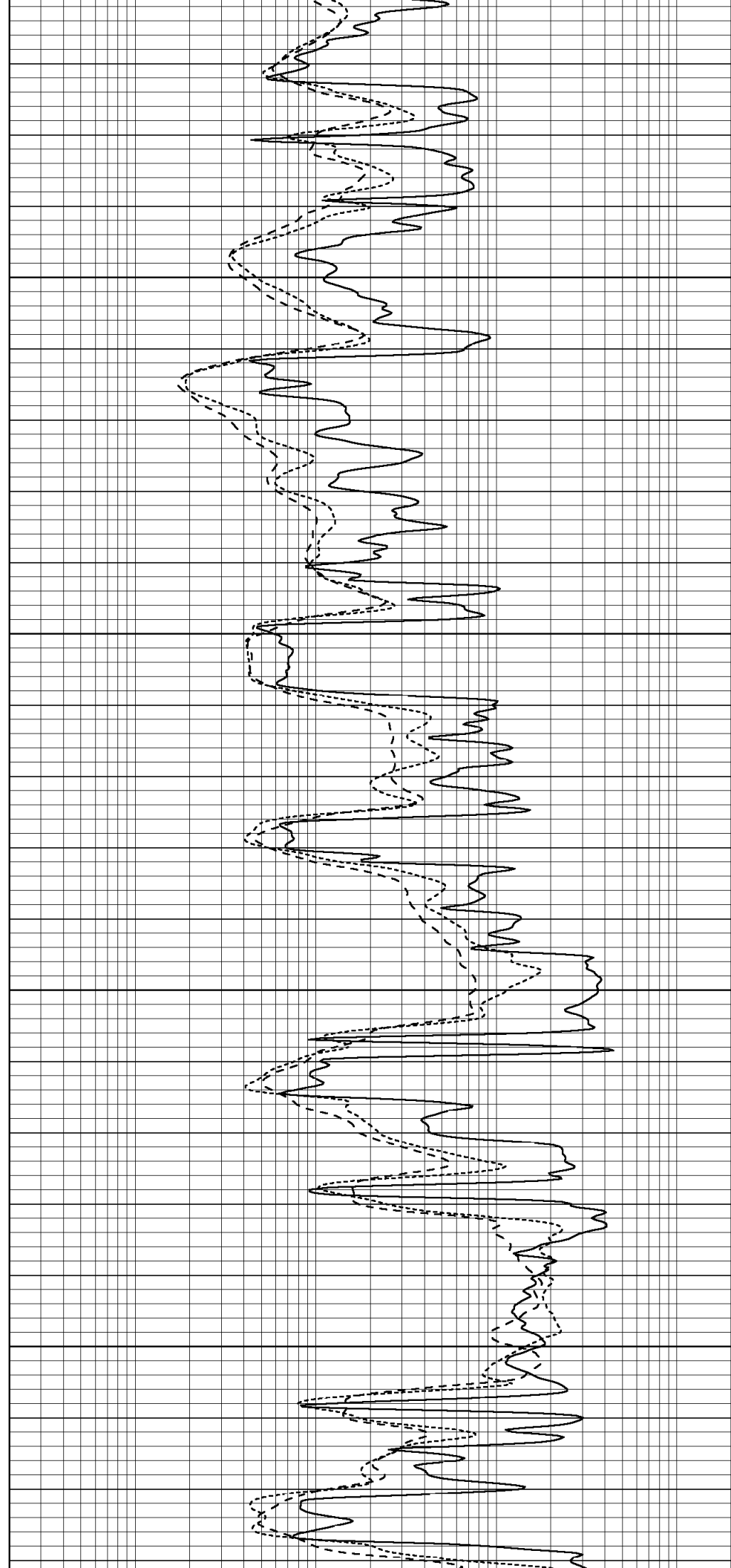


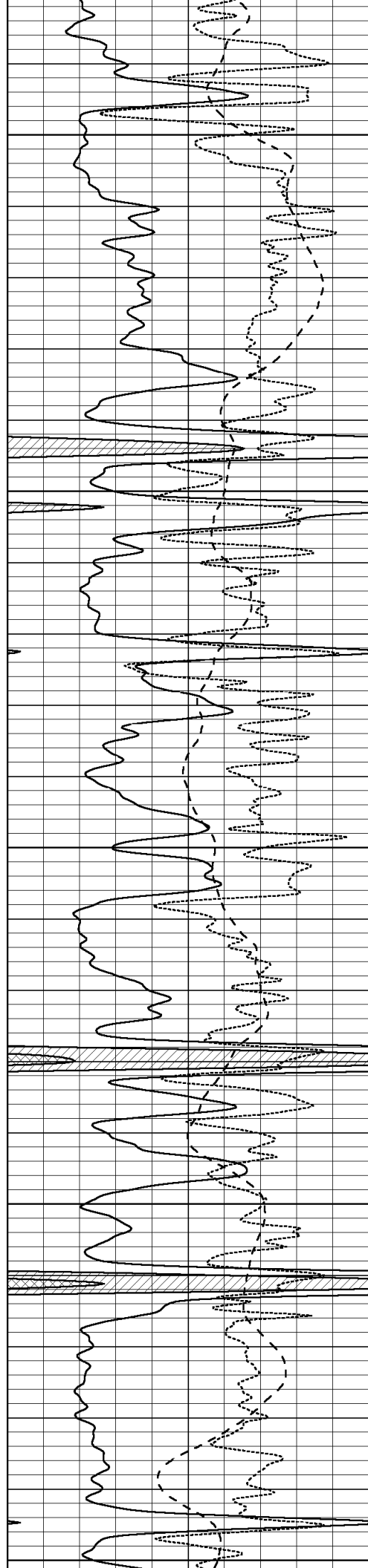
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3900

3950





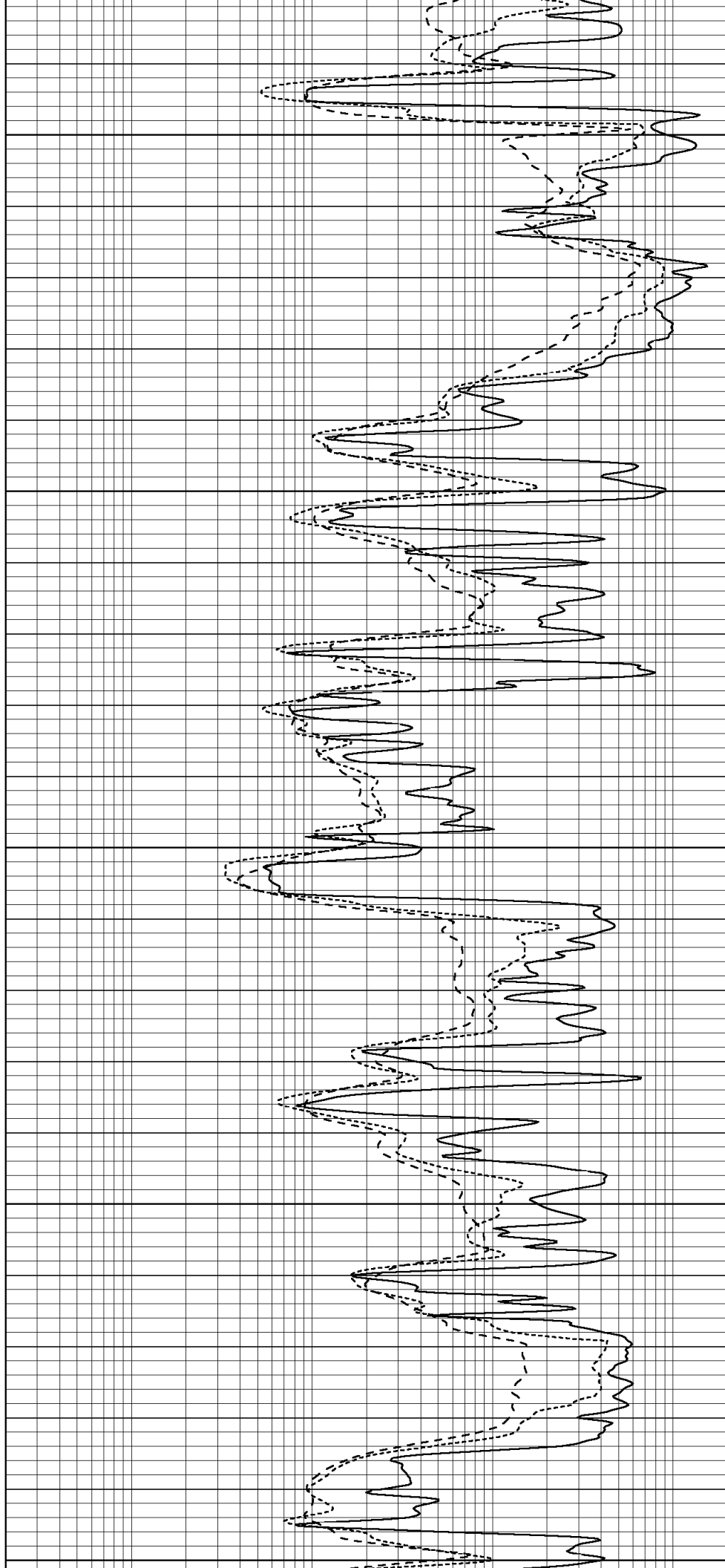
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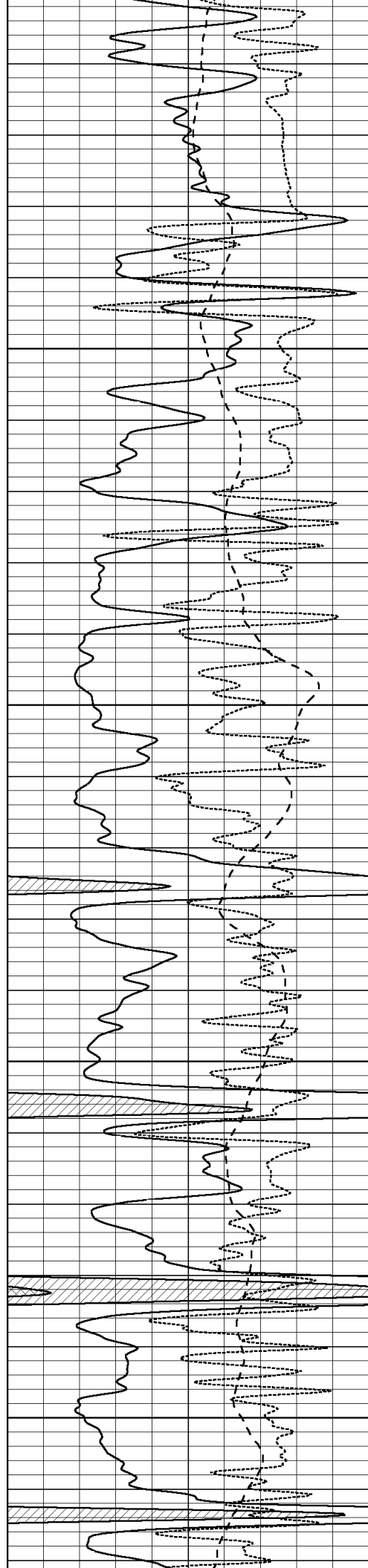
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4100

4150

4200



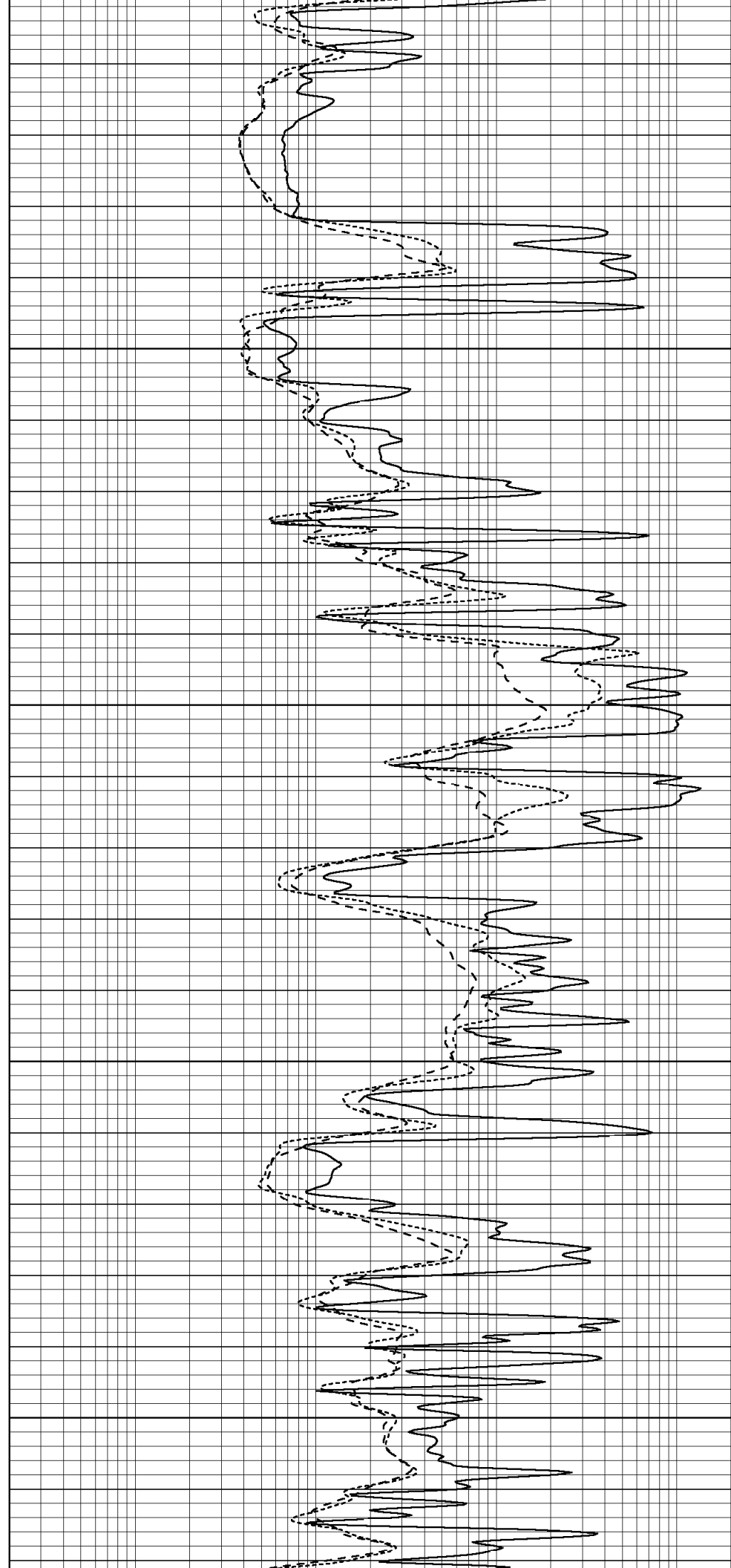


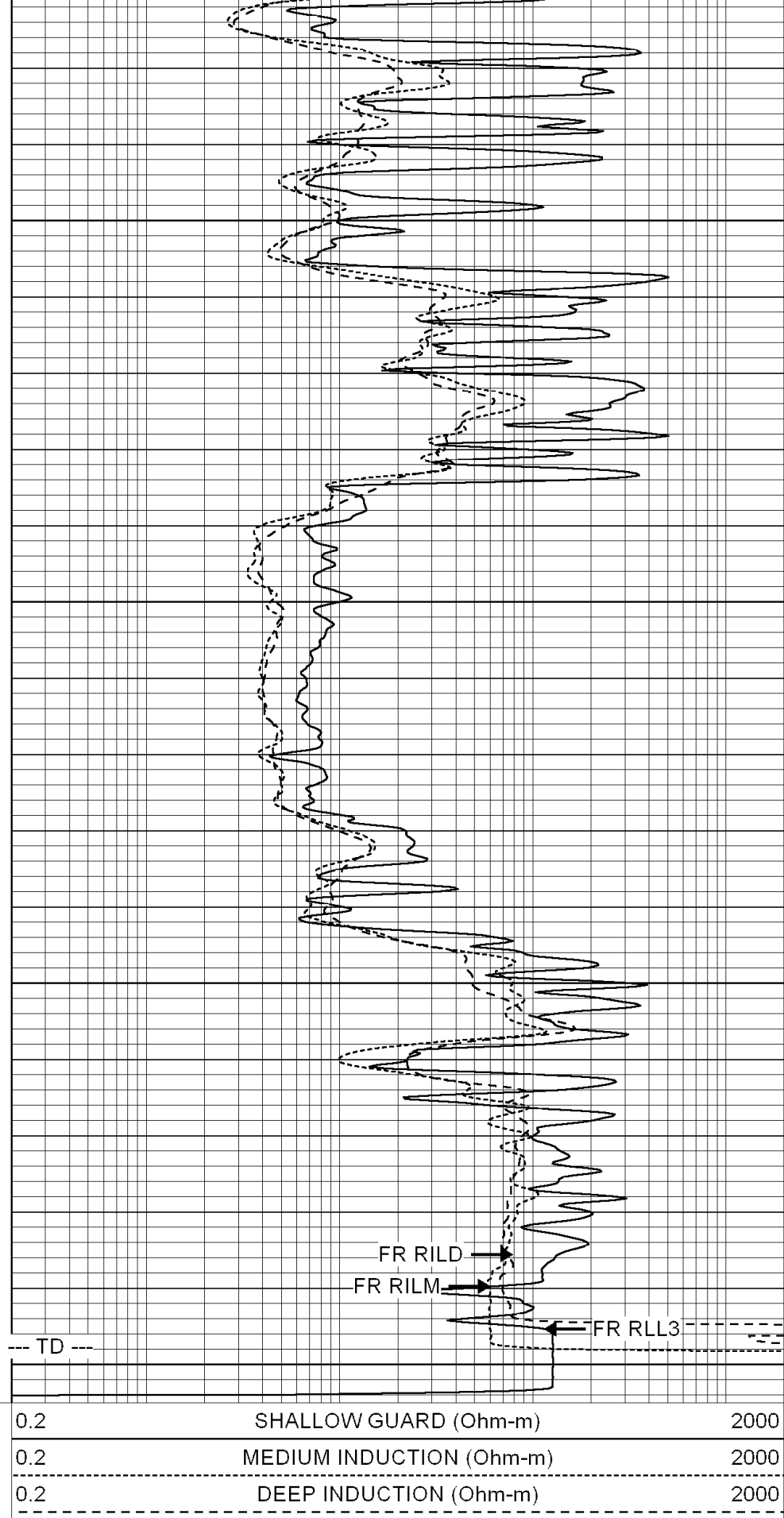
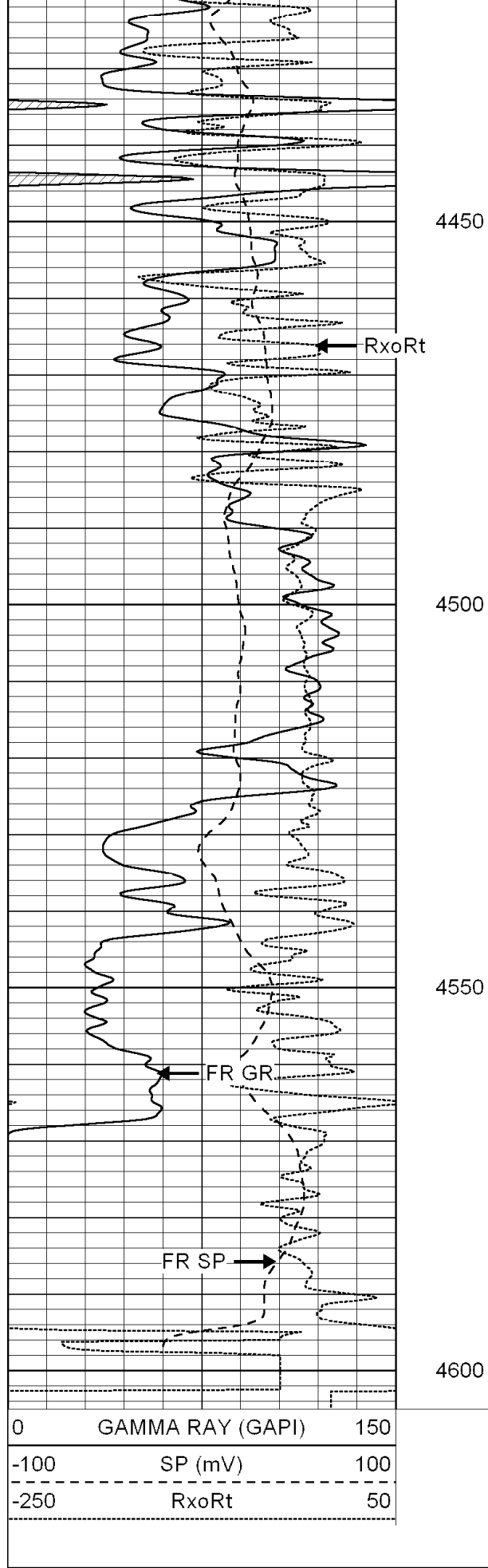
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4300

4350

4400



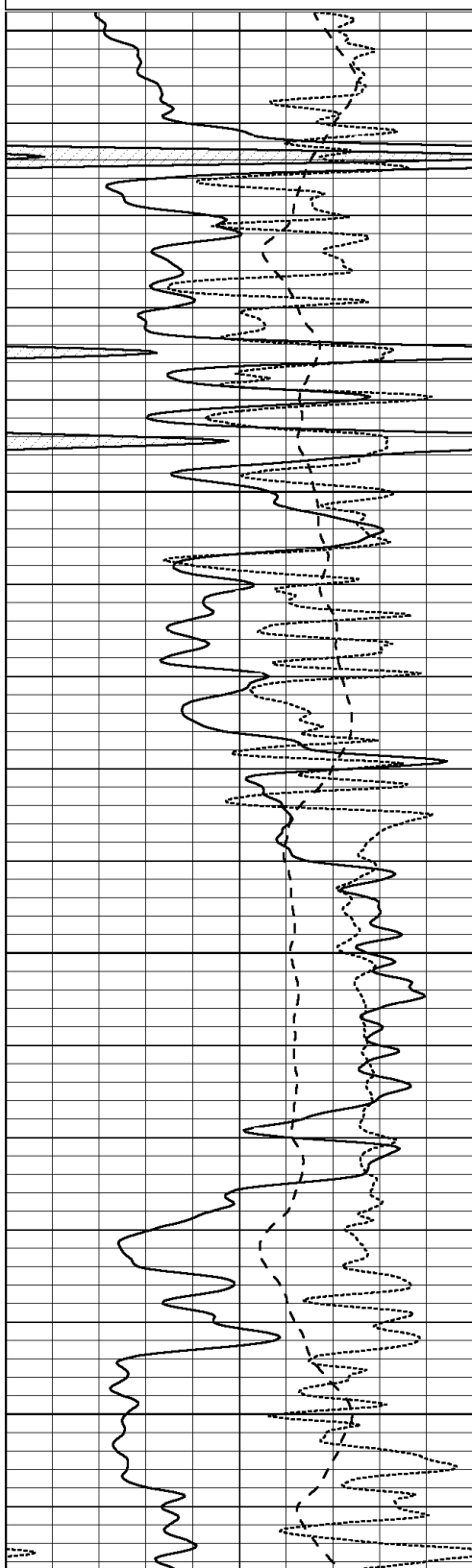




Database File: 000715ddn.db
Dataset Pathname: pass2.A
Presentation Format: dil
Dataset Creation: Sat Aug 08 04:34:54 2009
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50

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

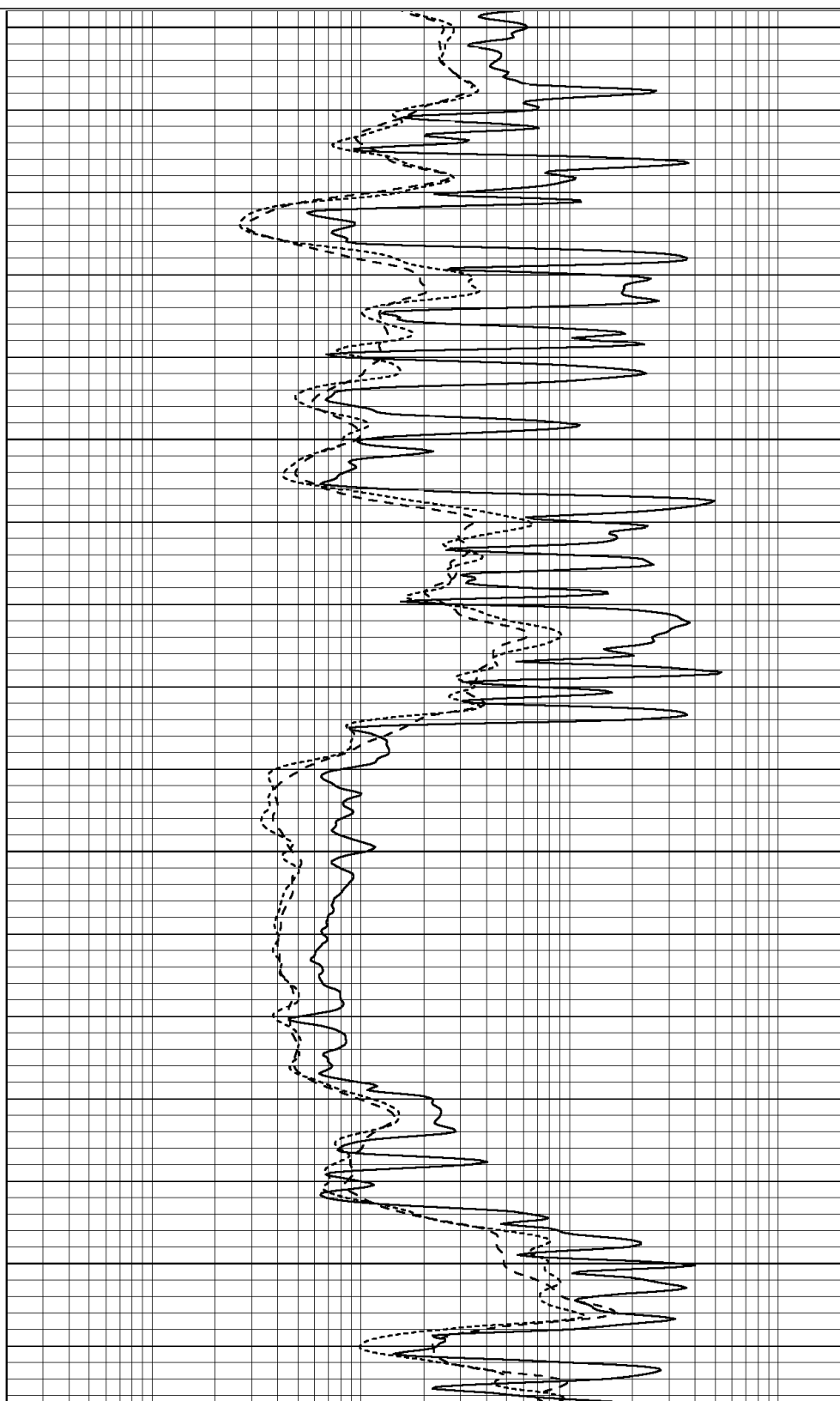


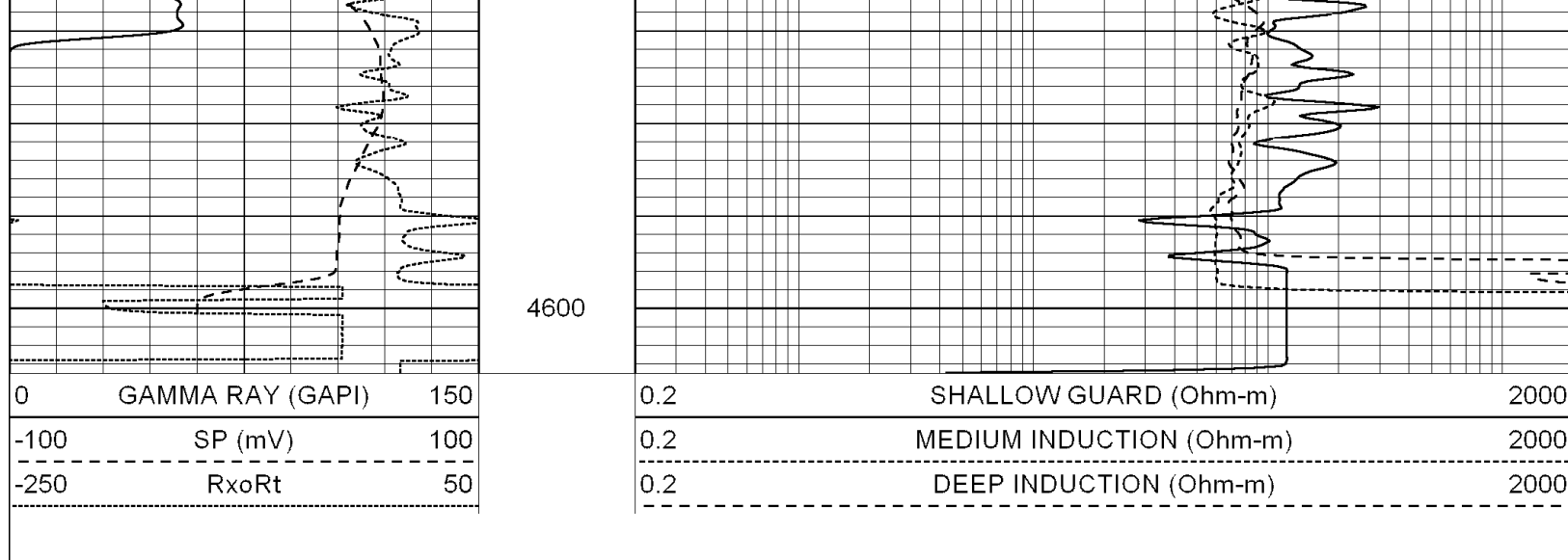
4400

4450

4500

4550





Calibration Report

Database File: 000715ddn.db
 Dataset Pathname: pass3
 Dataset Creation: Sat Aug 08 02:53:11 2009 by Log Open-Cased 051020

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Sat Aug 08 03:41:37 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	510.000	-6.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	490.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho-m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho-m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Sat Aug 08 03:10:51 2009

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		1006.91	528.07	cps
Aluminum	2.610	g/cc		233.49	355.80	cps
Spine Angle = 74.88				Density/Spine Ratio = 0.594		
	Size			Reading		
Small Ring	8.20	in		3.68	V	
Large Ring	14.00	in		6.06	V	

Compensated Neutron Calibration Report

Serial Number: NEU_11
 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:

GR5

Tool Model:

OPEN

Performed:

Fri Jul 31 06:50:30 2009

Calibrator Value:

1.0

GAPI

Background Reading:

0.0

cps

Calibrator Reading:

1.0

cps

Sensitivity:

0.5300

GAPI/cps