



SUPERIOR
Hays,
Kansas

**COMPENSATED
DENSITY
NEUTRON LOG**

Company	RAYMOND OIL COMPANY, INC.		
Well	ROSE "B" #2		
Field			
County	LOGAN	State	KANSAS
Location:	API # : 15-109-20870 2041' FSL & 1615' FWL		Other Services DIL MICRO
SEC 11 TWP 14S RGE 32W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2758
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		
		K.B. 2763	
		D.F.	
		G.L. 2758	

Date	11-14-09		
Run Number	ONE		
Depth Driller	4520		
Depth Logger	4520		
Bottom Logged Interval	4496		
Top Log Interval	3300		
Casing Driller	261		
Casing Logger	NA		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4 / 54		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.10 @ 65F		
Rinf @ Meas. Temp	0.83 @ 65F		
Rmc @ Meas. Temp	1.32 @ 65F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.600 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	4:30 P.M.		
Maximum Recorded Temperature	120F		
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, 1/2E.



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MAIN SECTION

Database File: 004307ddn.db
Dataset Pathname: pass4.A
Presentation Format: dil2
Dataset Creation: Sat Nov 14 18:34:20 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:600

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

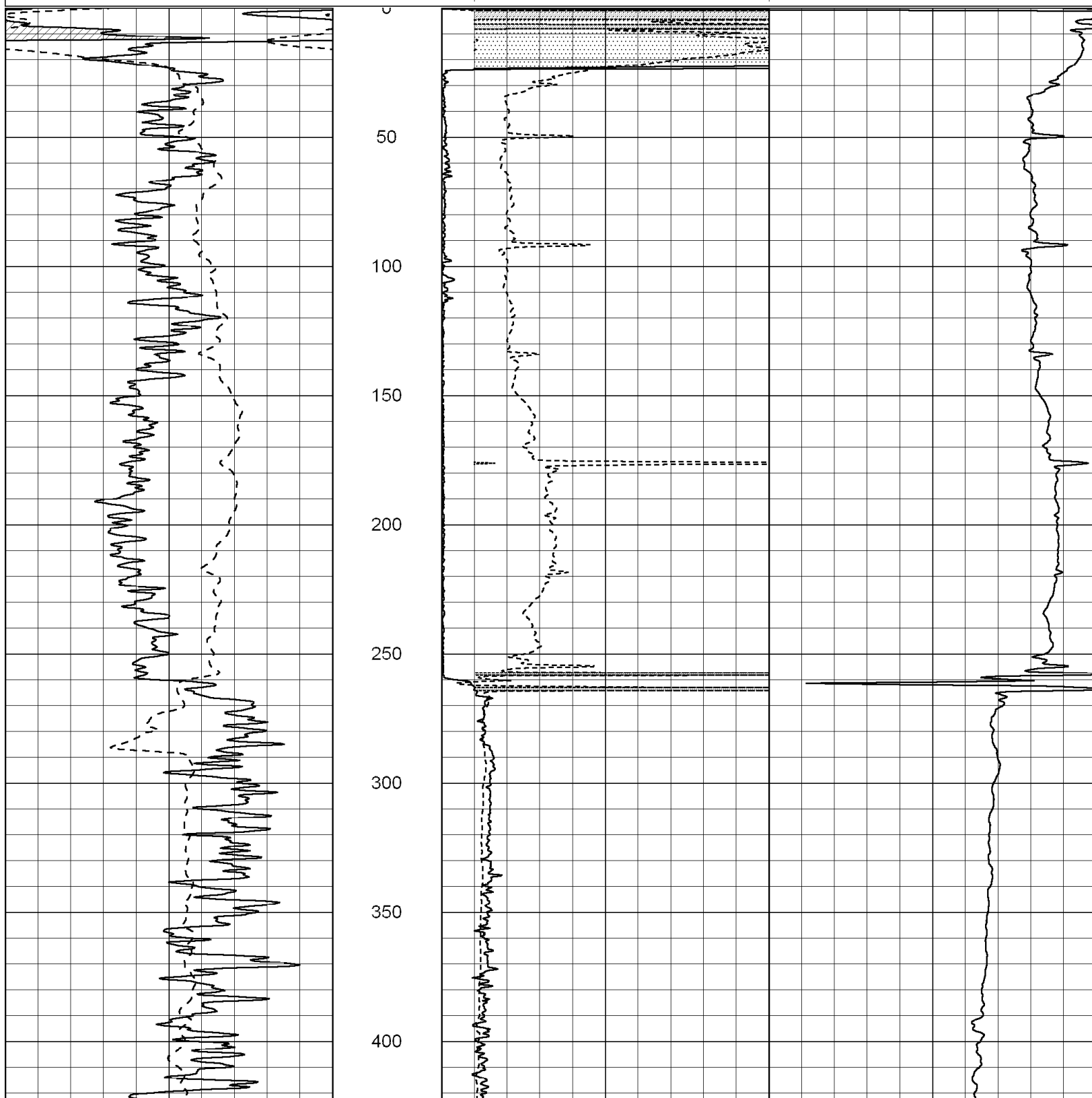
0	RLL3 (Ohm-m)	50
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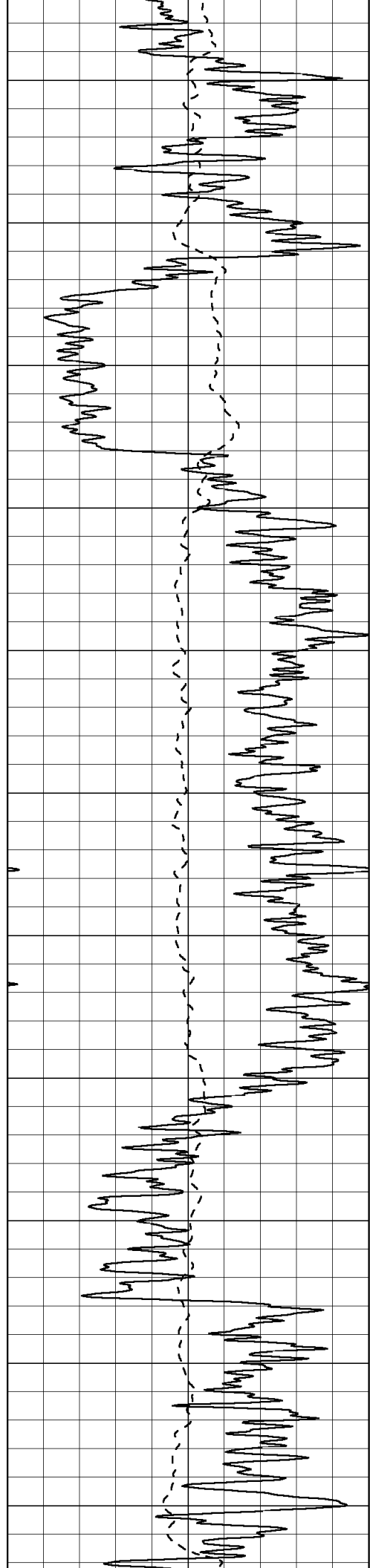
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1000	CILD (mmho-m)	0
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50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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450

500

550

600

650

700

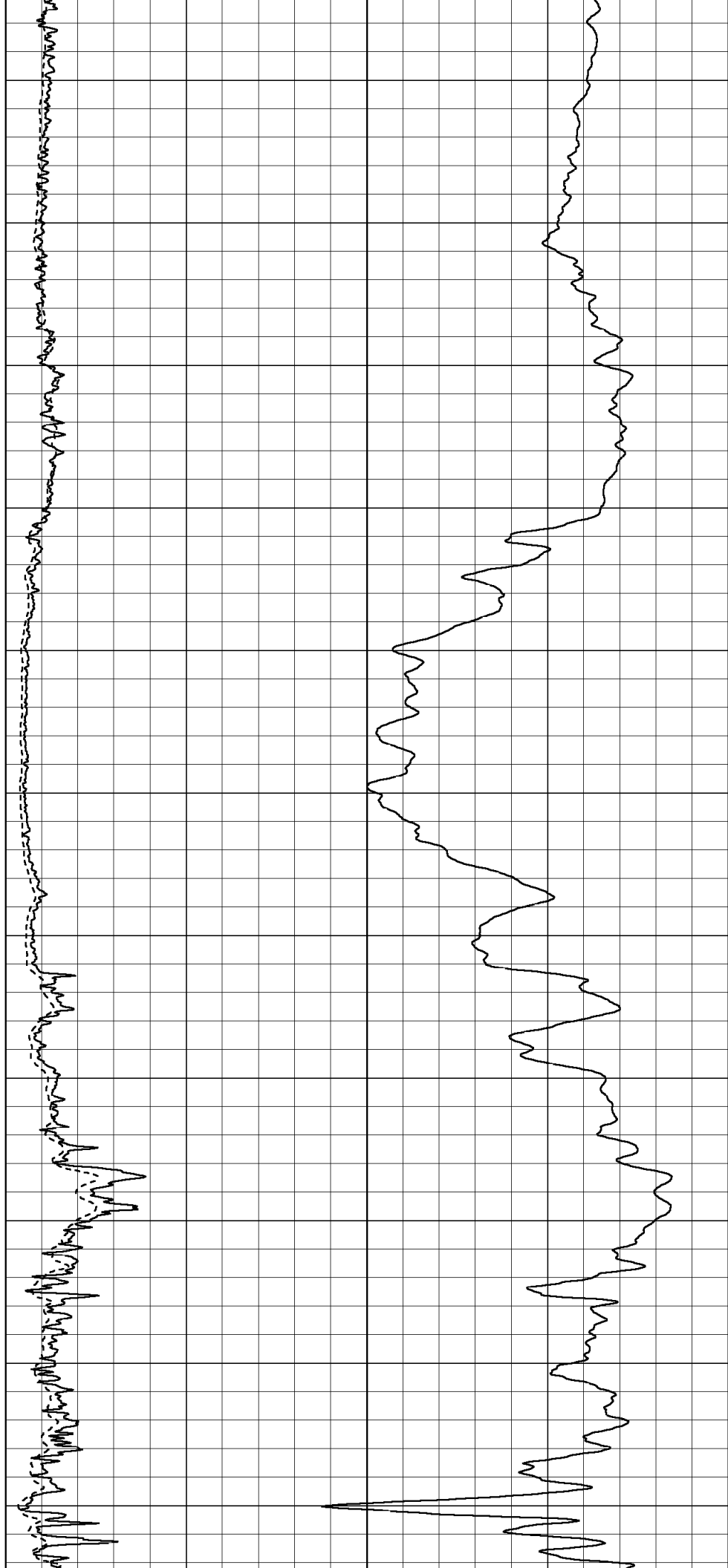
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800

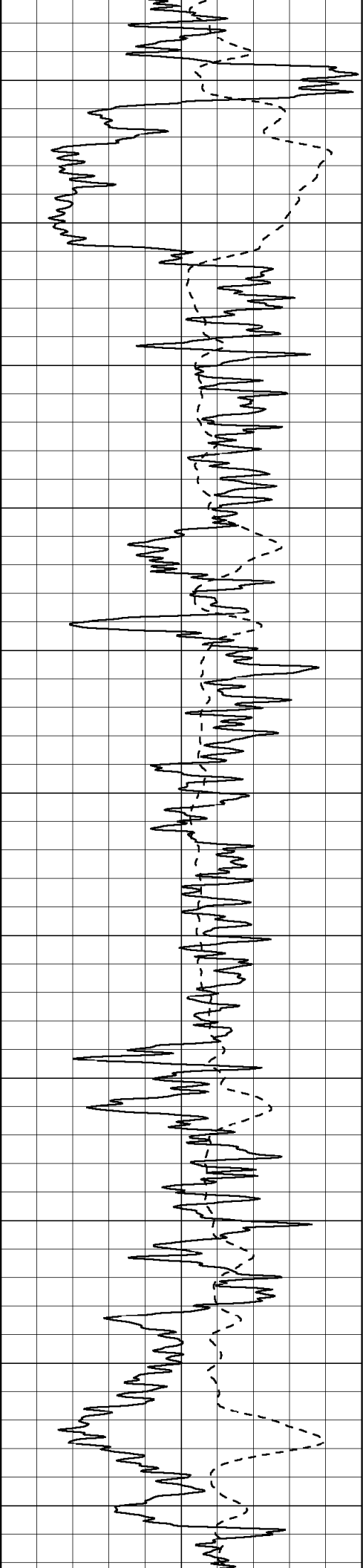
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900

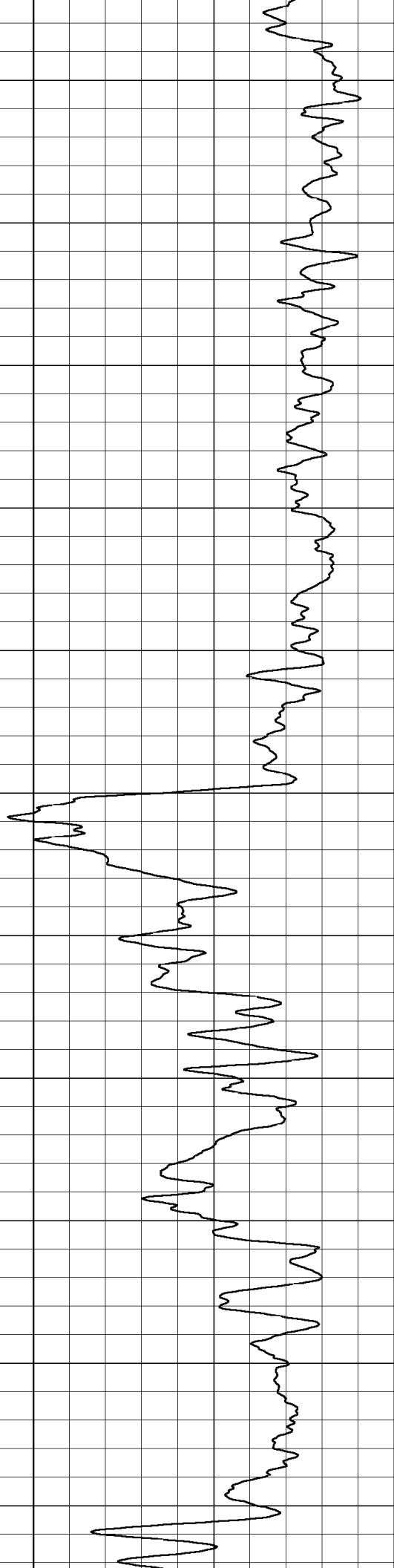
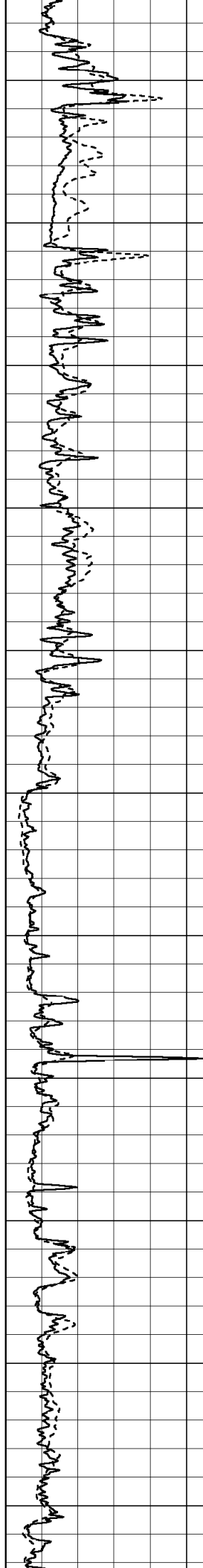
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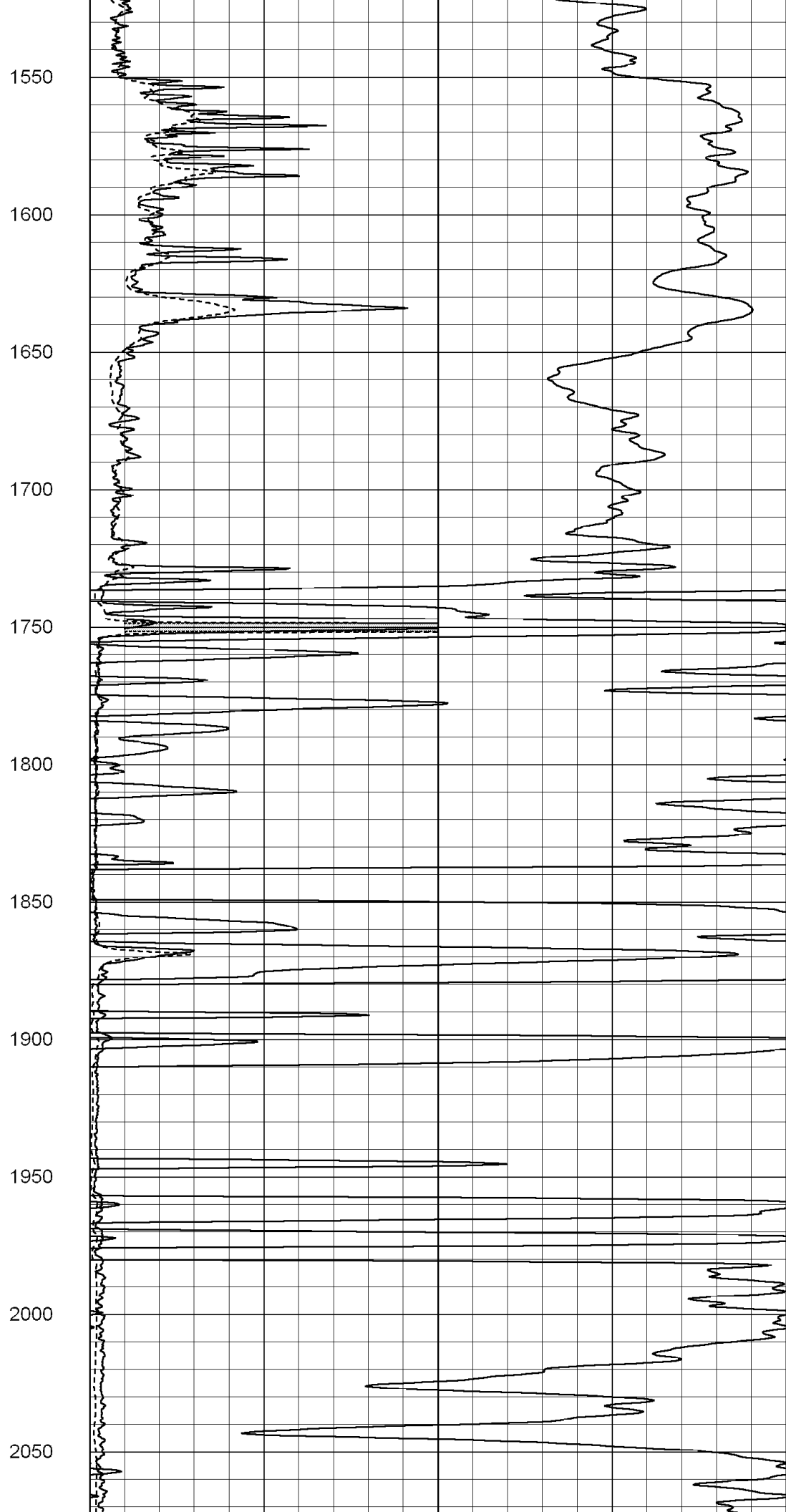
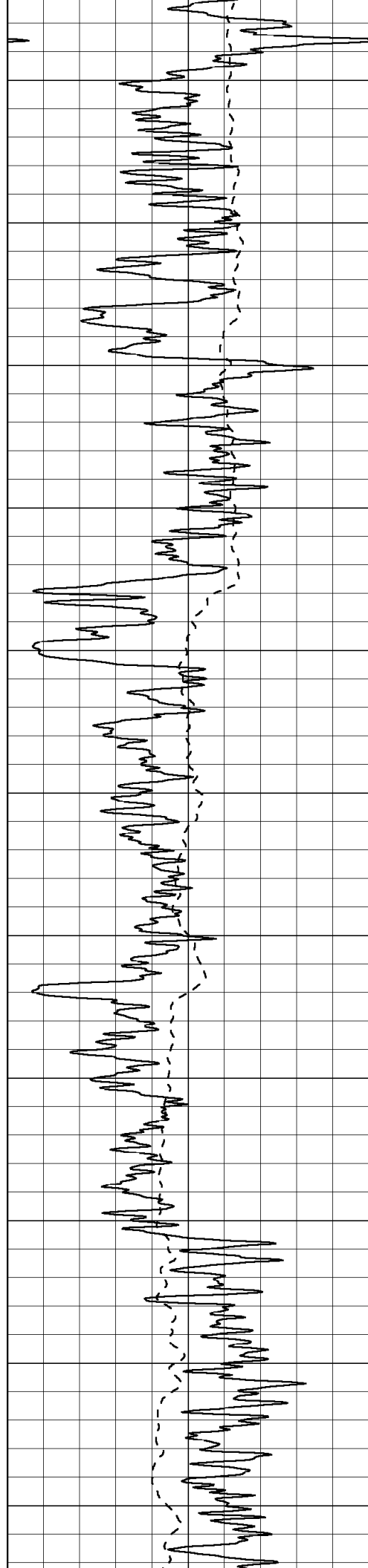


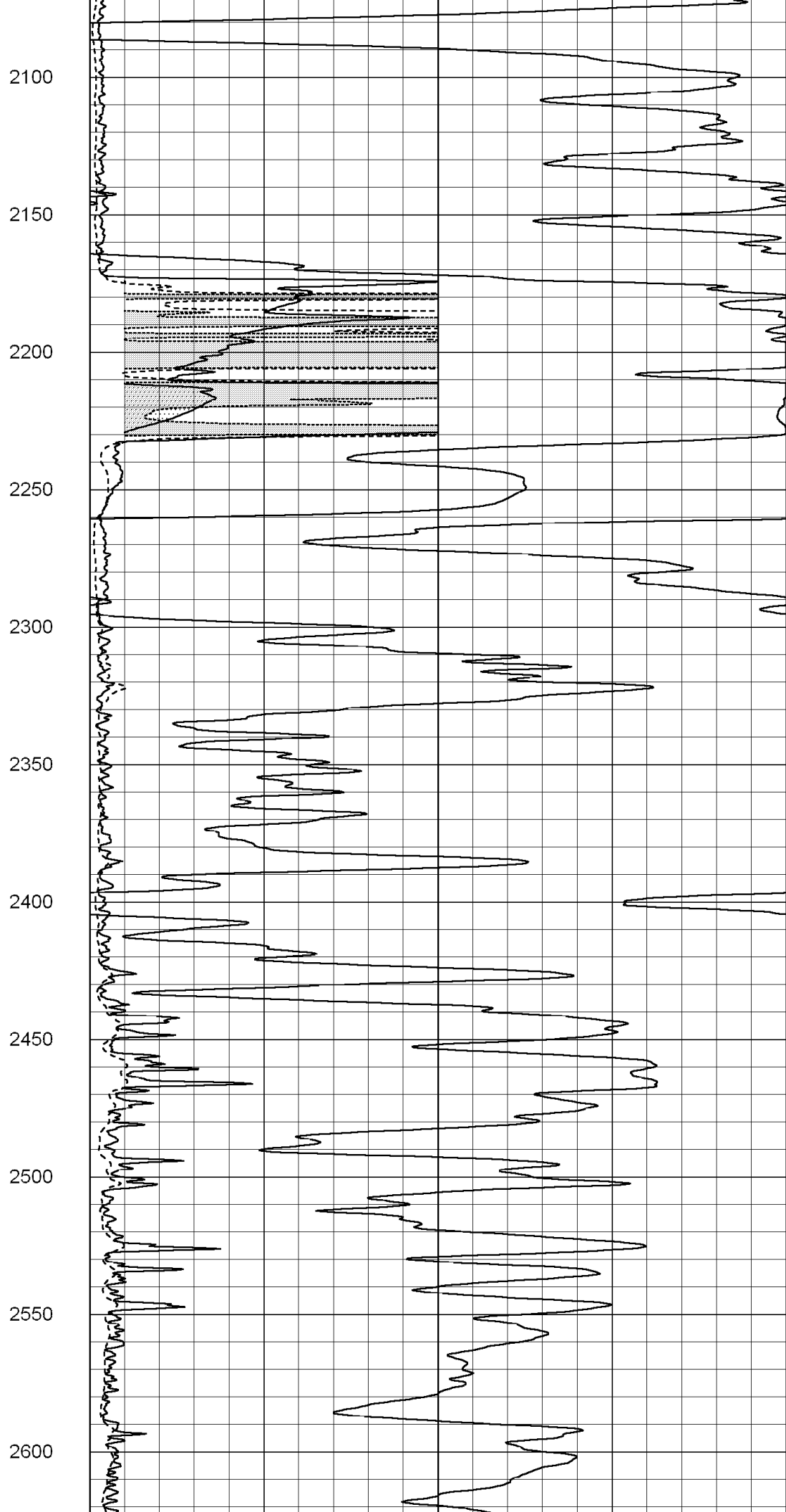
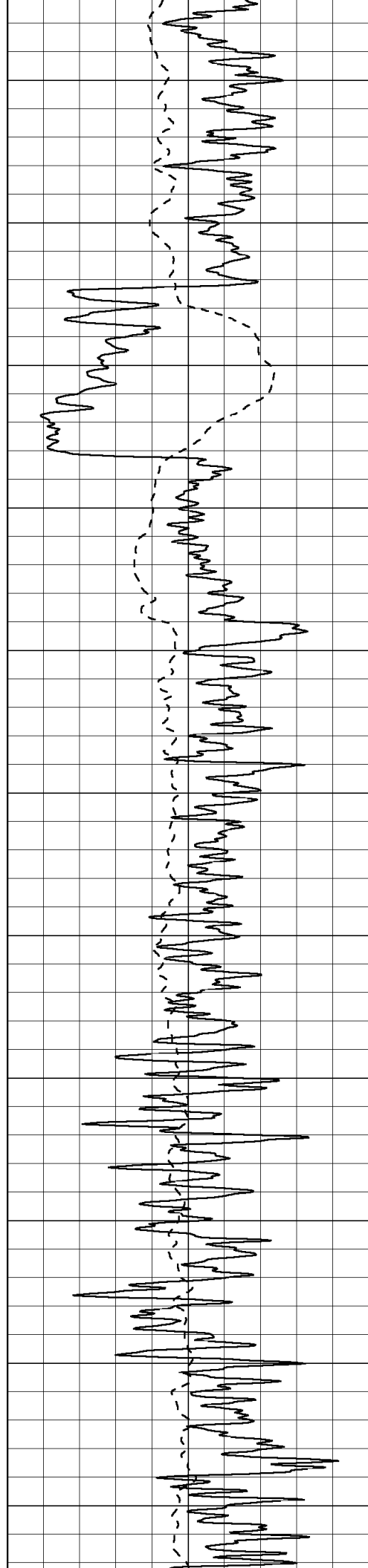
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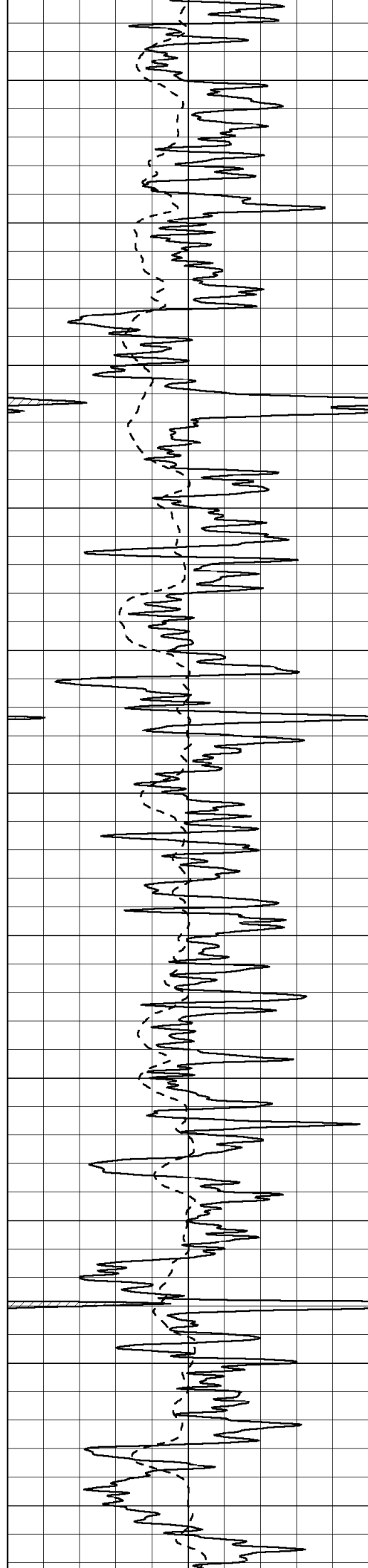


1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500









2650

2700

2750

2800

2850

2900

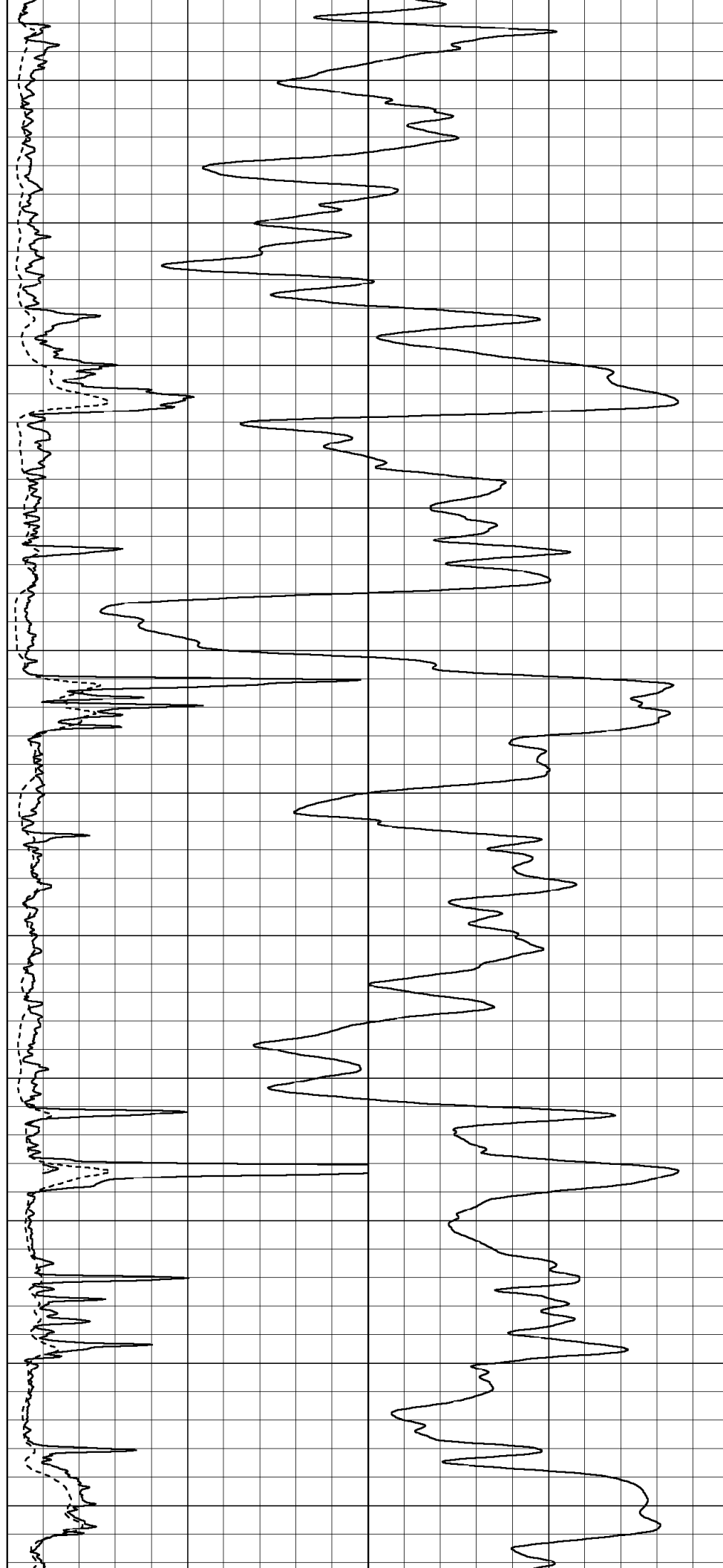
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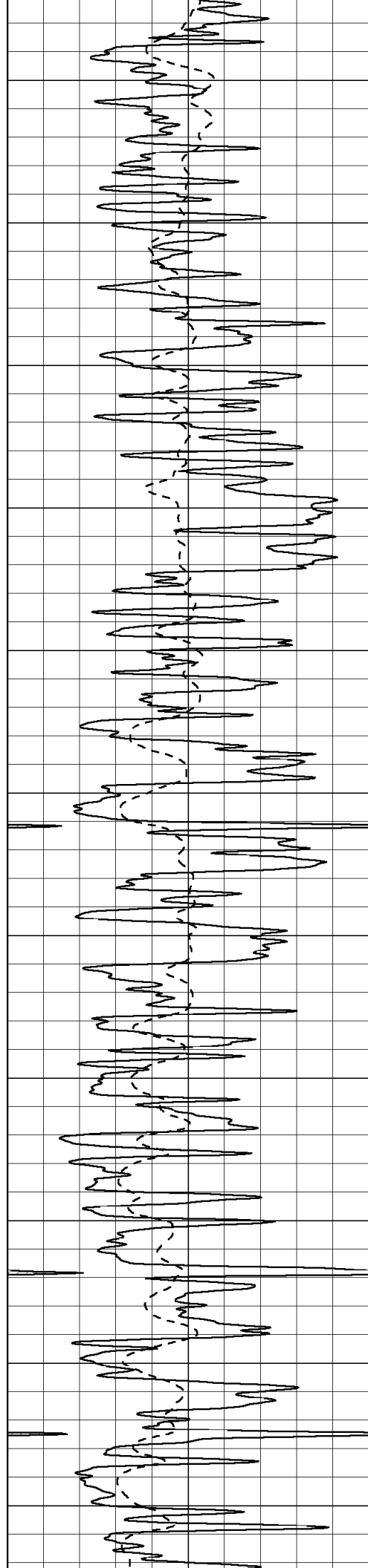
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3050

3100

3150





3200

3250

3300

3350

3400

3450

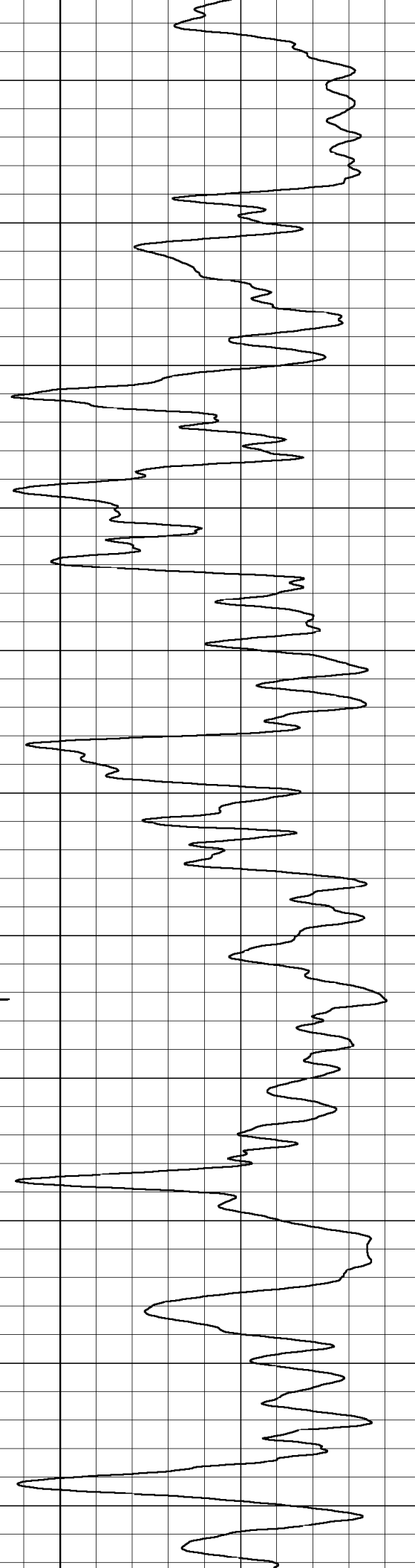
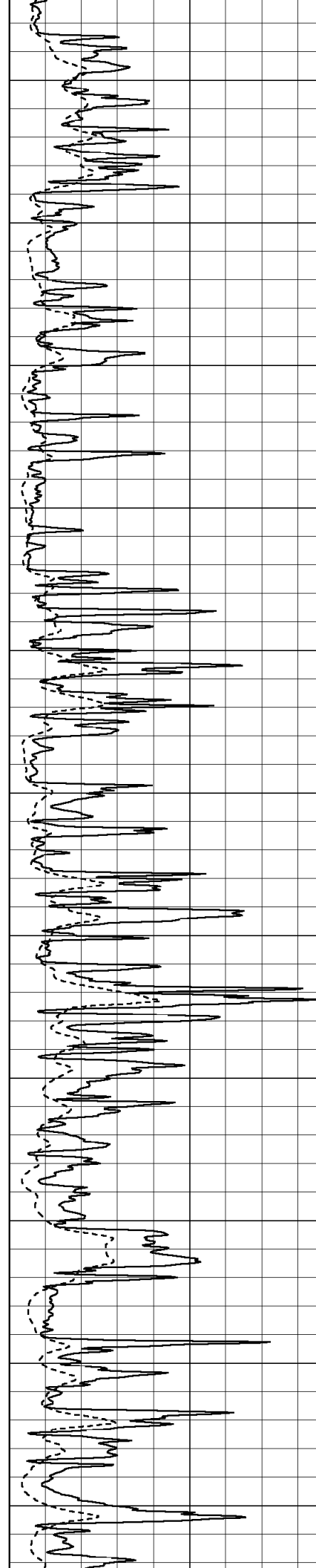
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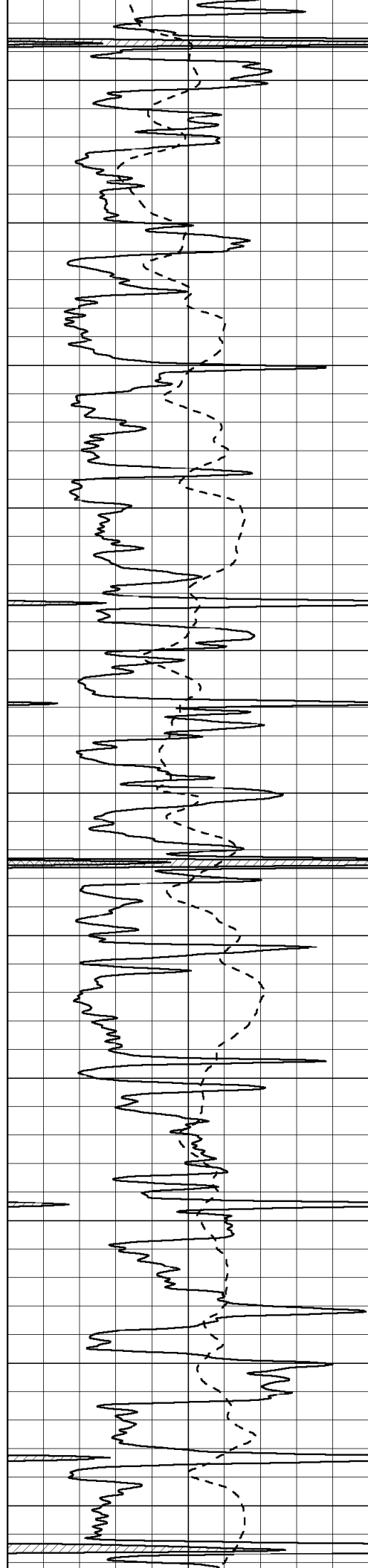
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3600

3650

3700





3750

3800

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3900

3950

4000

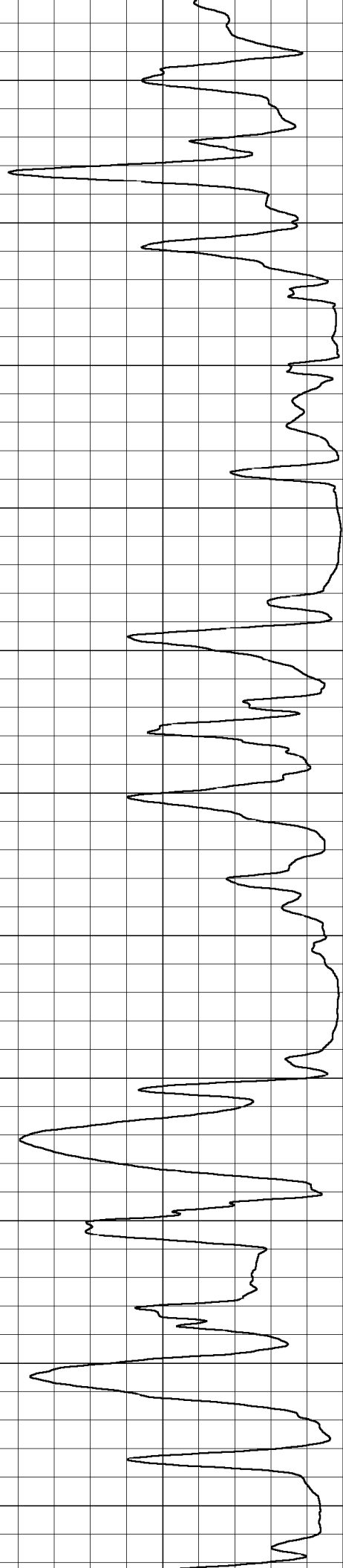
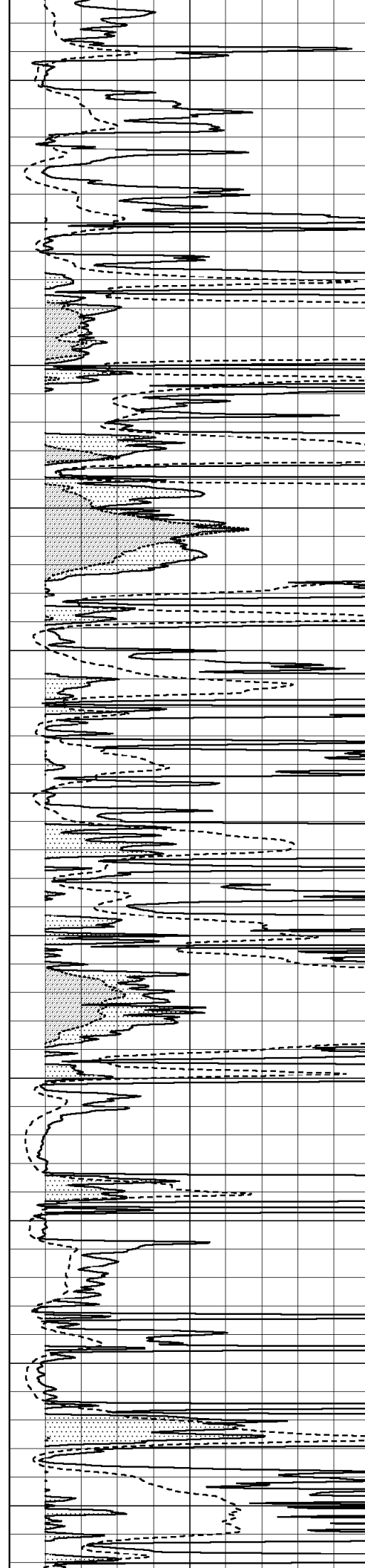
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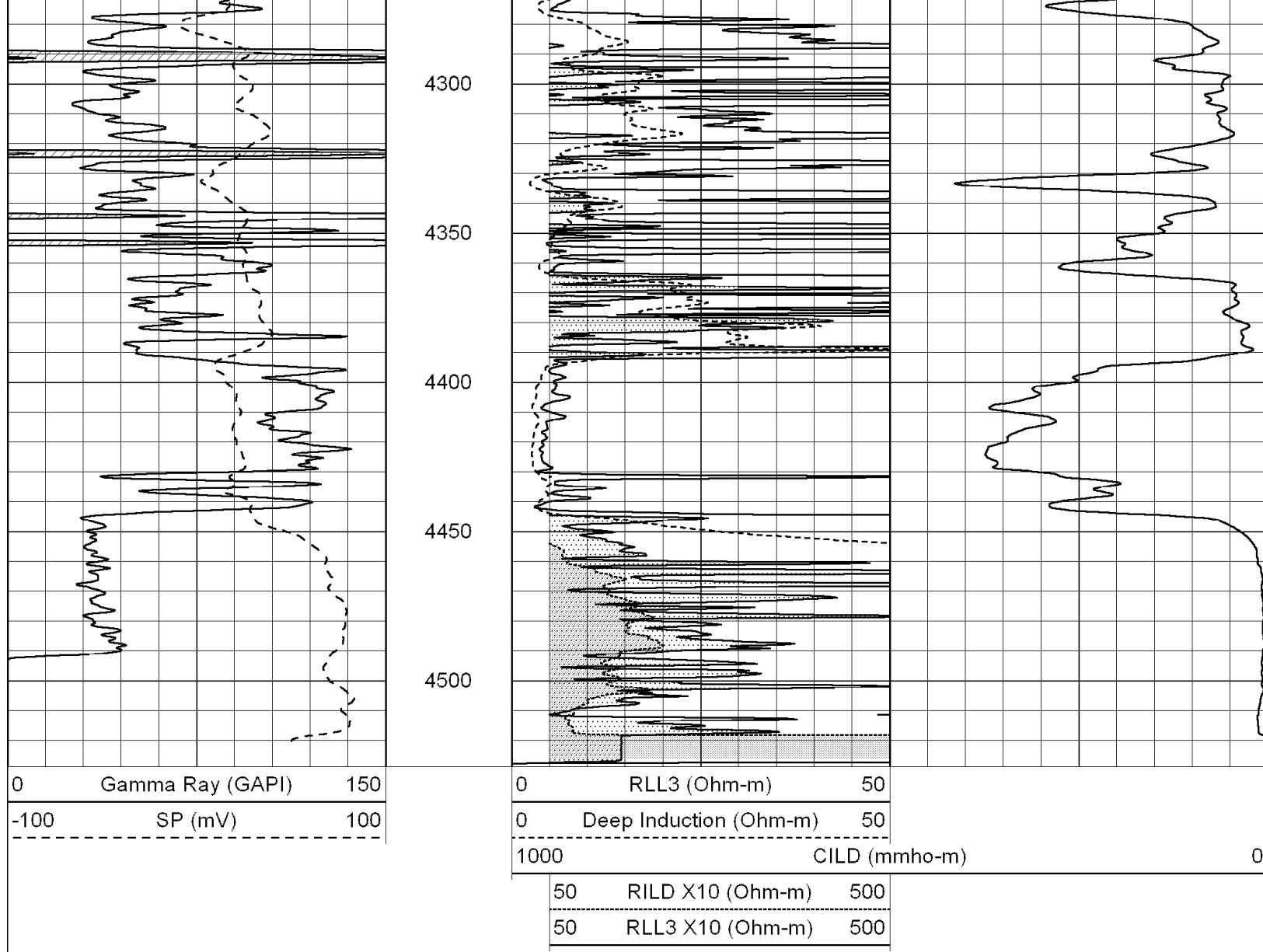
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4150

4200

4250



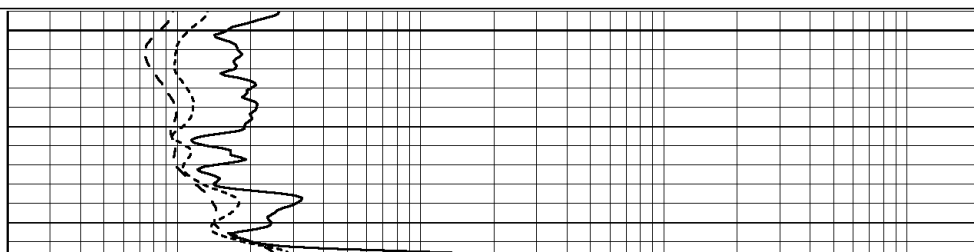
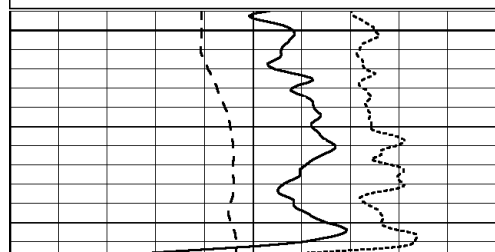


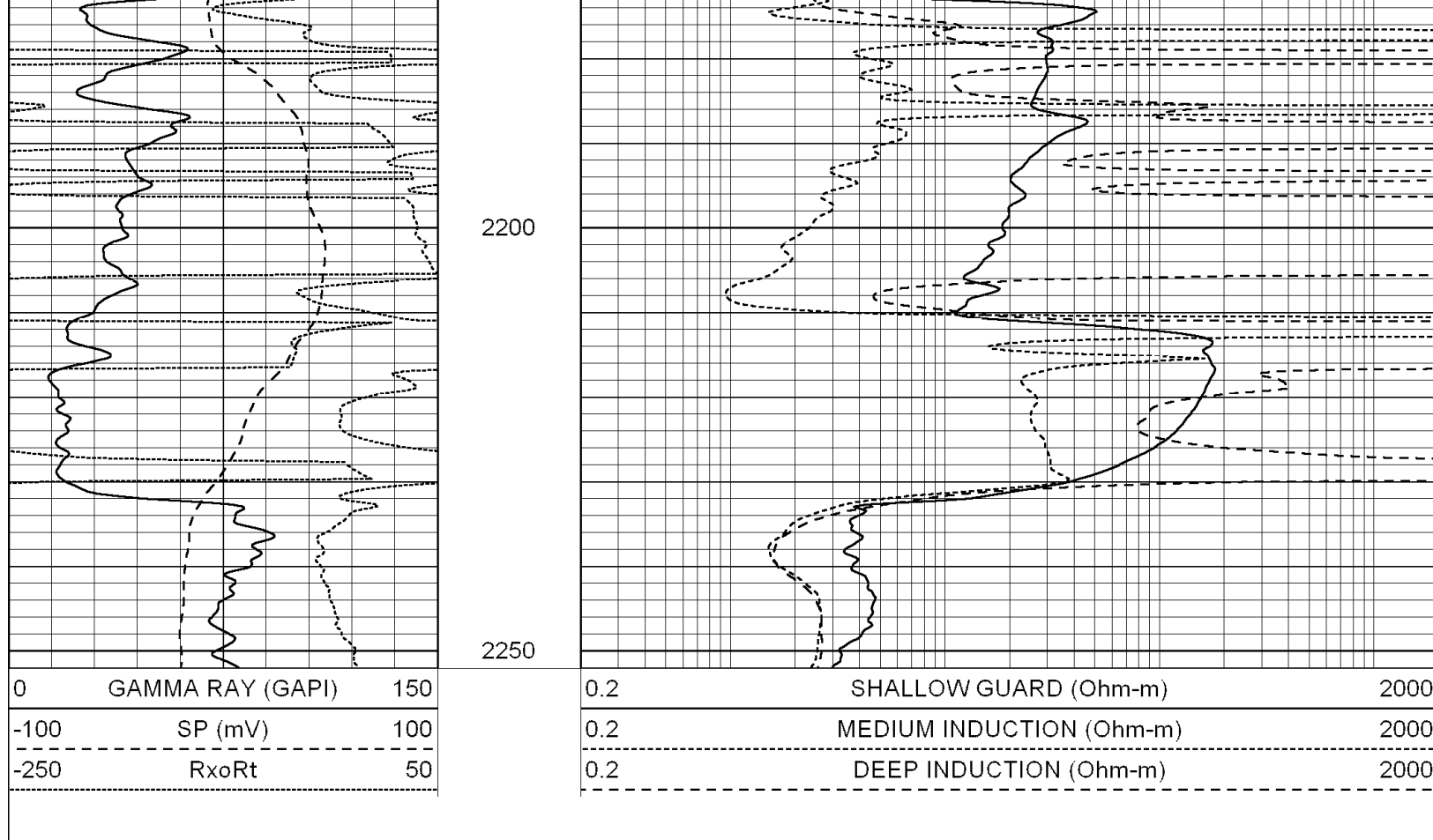
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MAIN SECTION

Database File: 004307ddn.db
 Dataset Pathname: pass4.A
 Presentation Format: dil
 Dataset Creation: Sat Nov 14 18:34:20 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

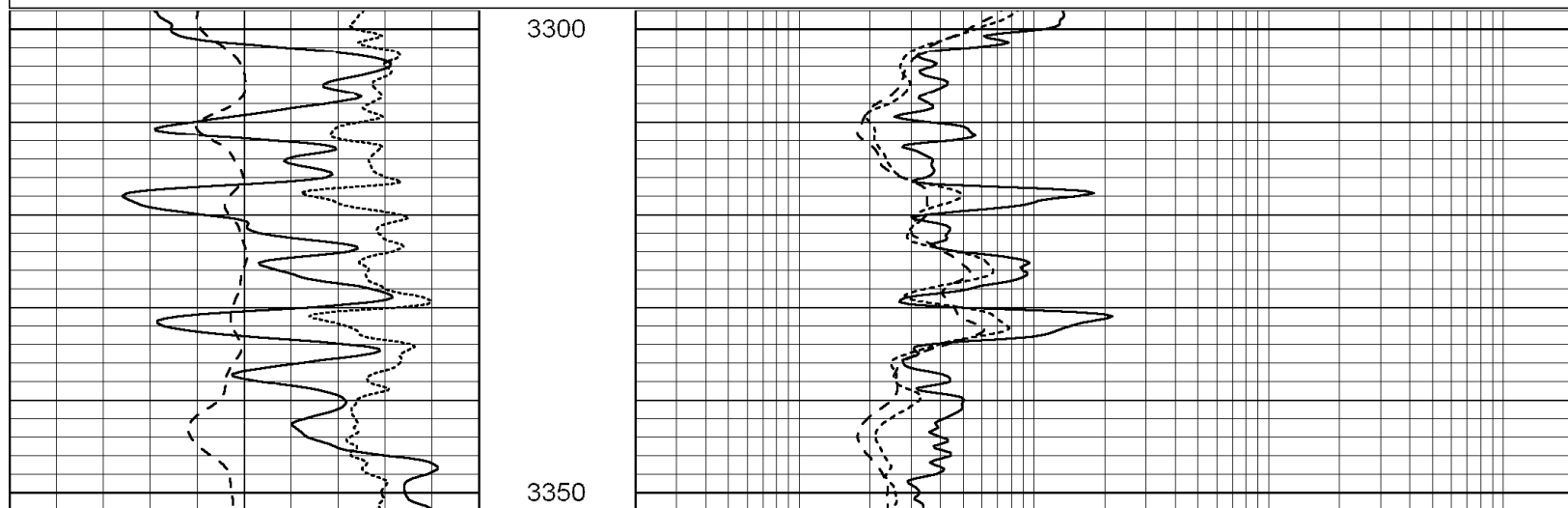
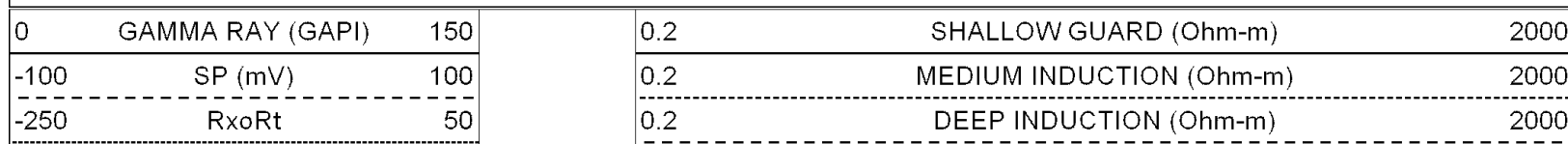


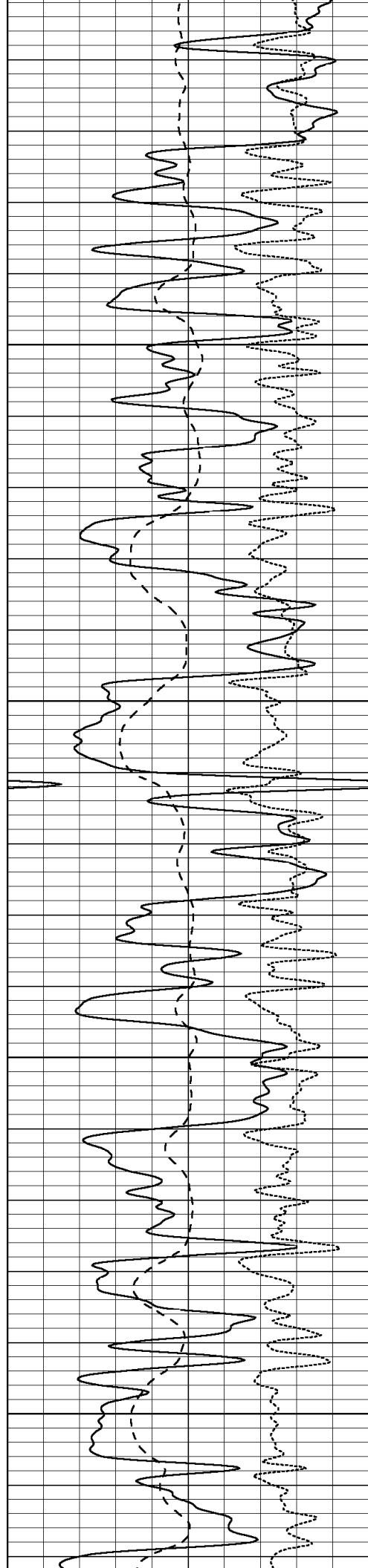


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 Dataset Pathname: pass4.A
 Presentation Format: dil
 Dataset Creation: Sat Nov 14 18:34:20 2009 by Calc Open-Cased 051020
 Charted by: Depth in Feet scaled 1:240



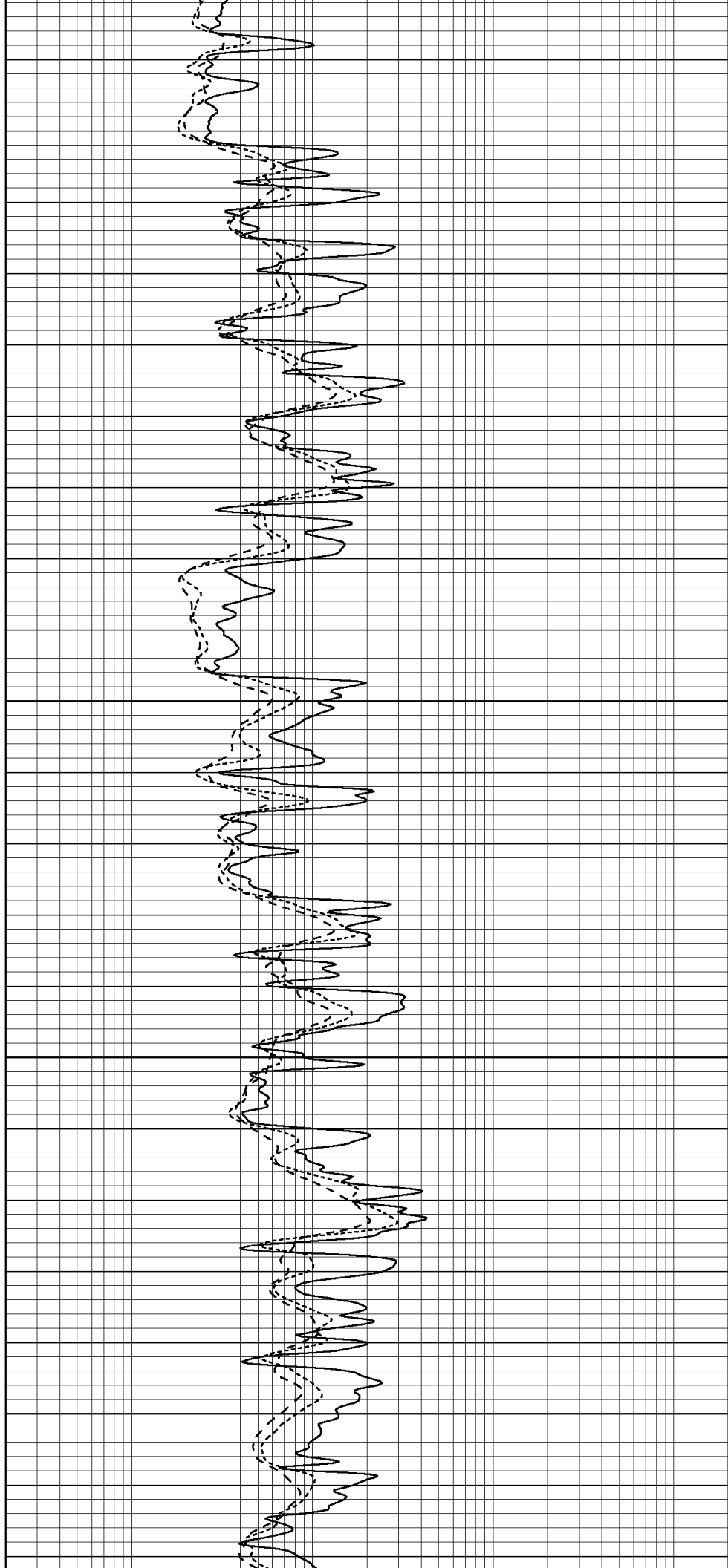


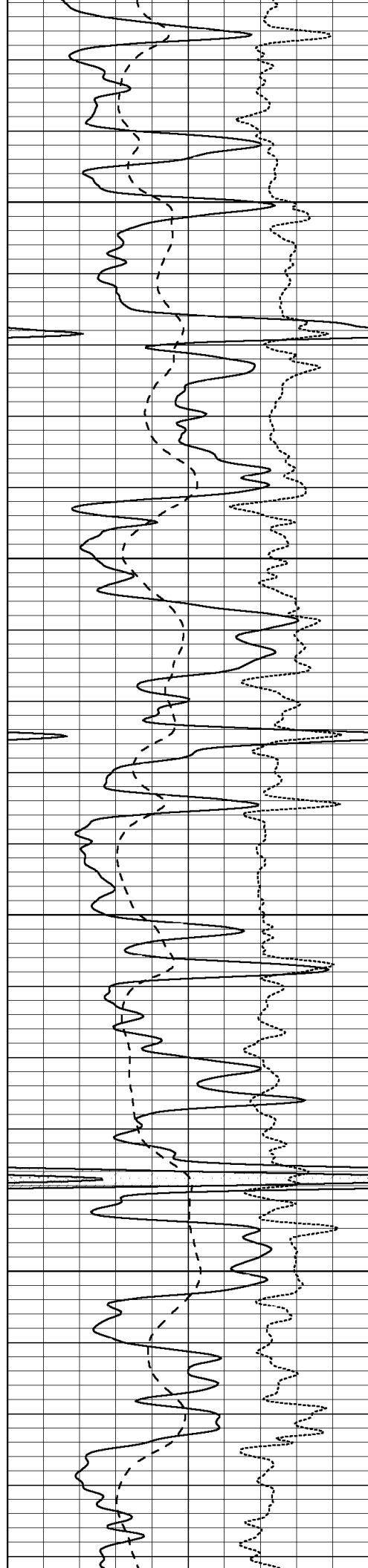
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3450

3500

3550



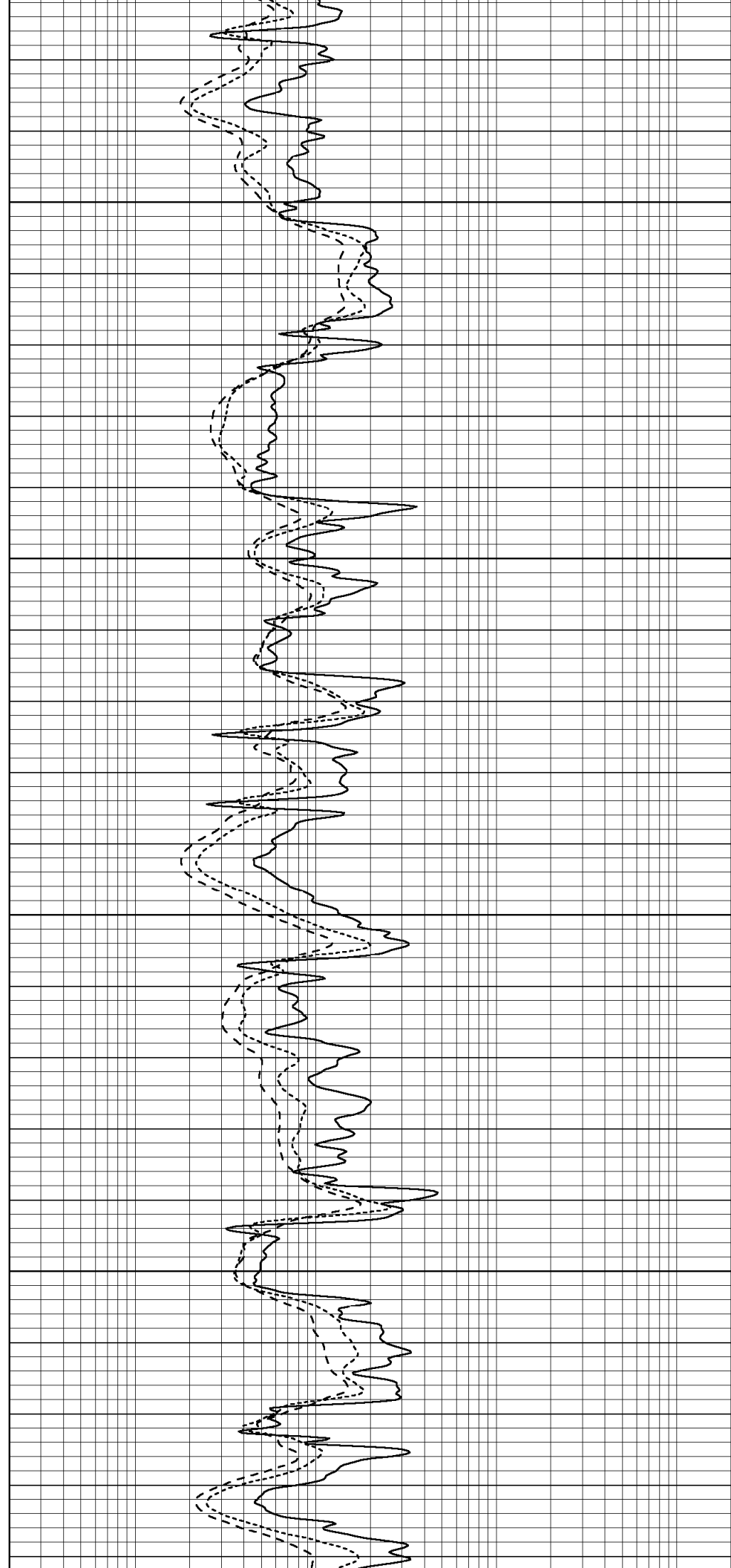


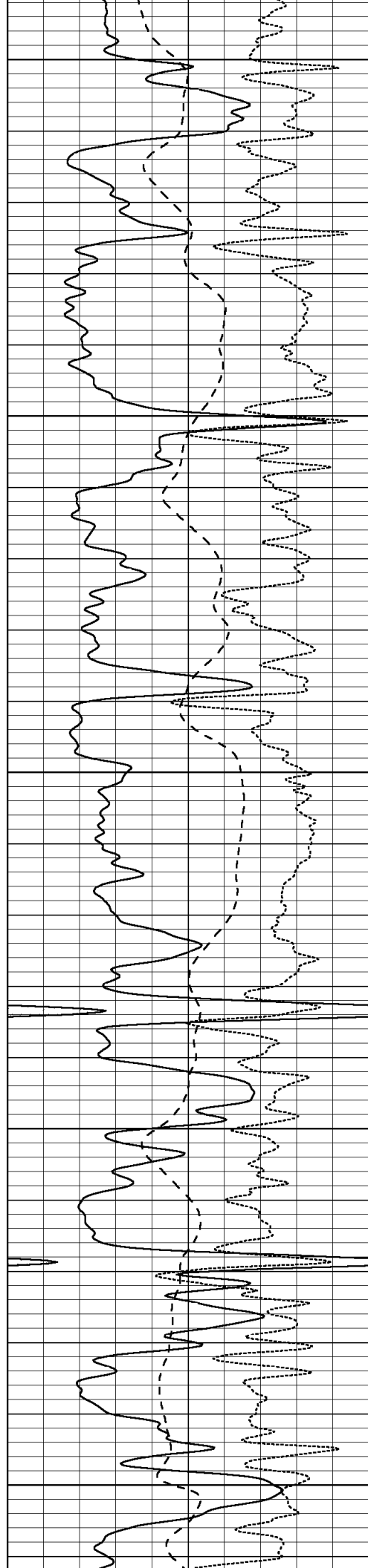
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3700

3750





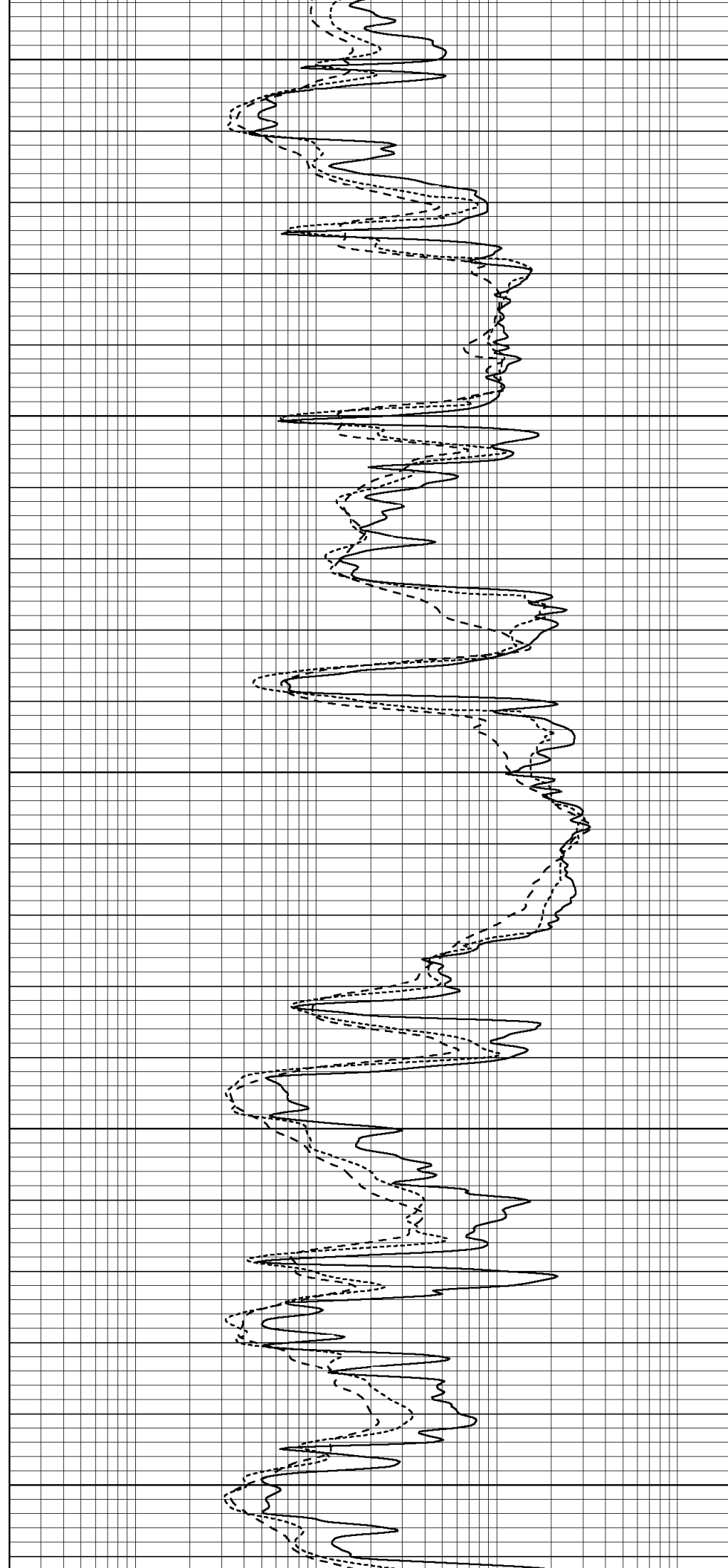
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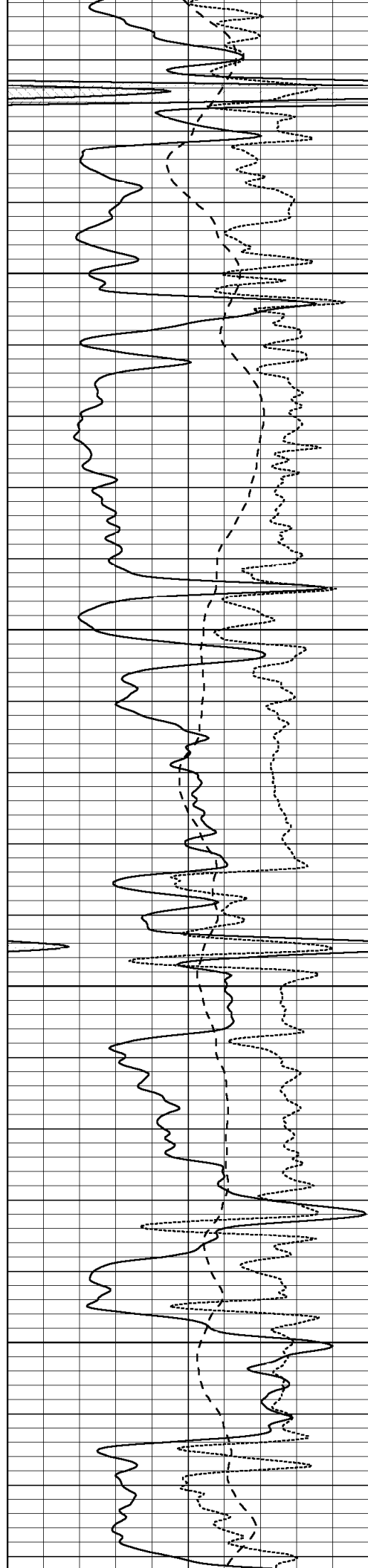
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3900

3950

4000



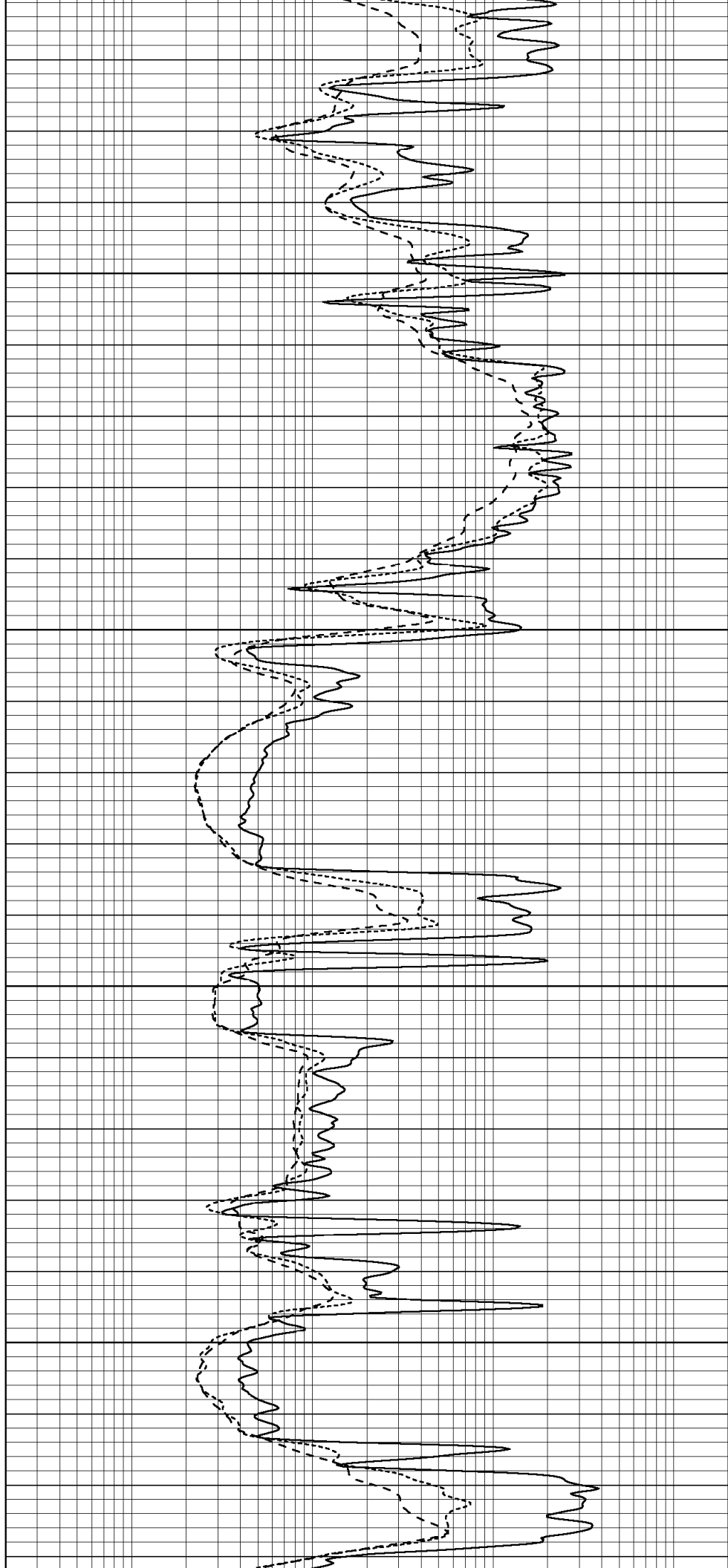


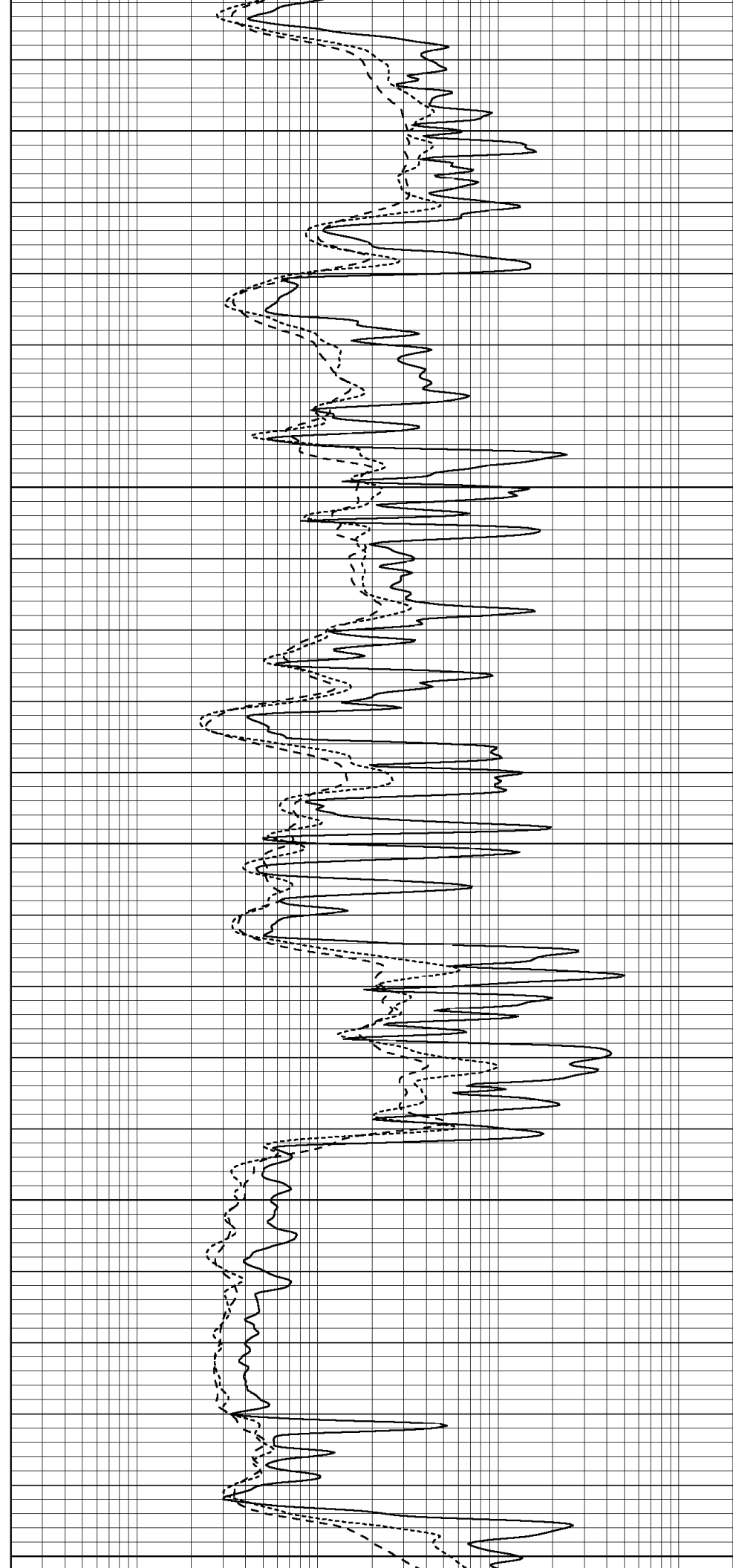
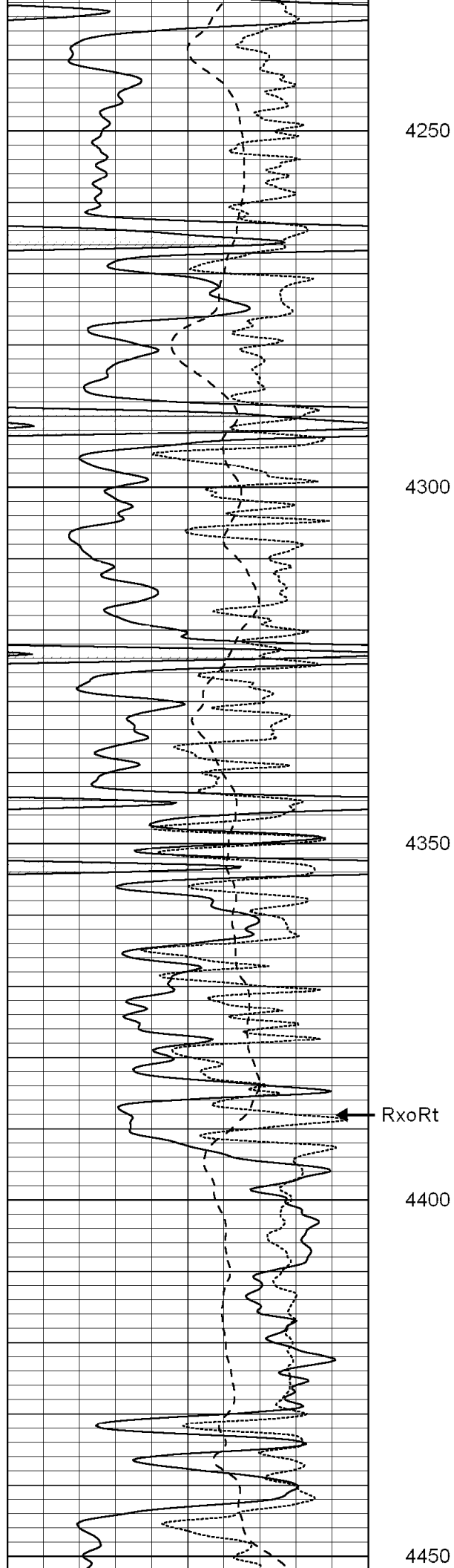
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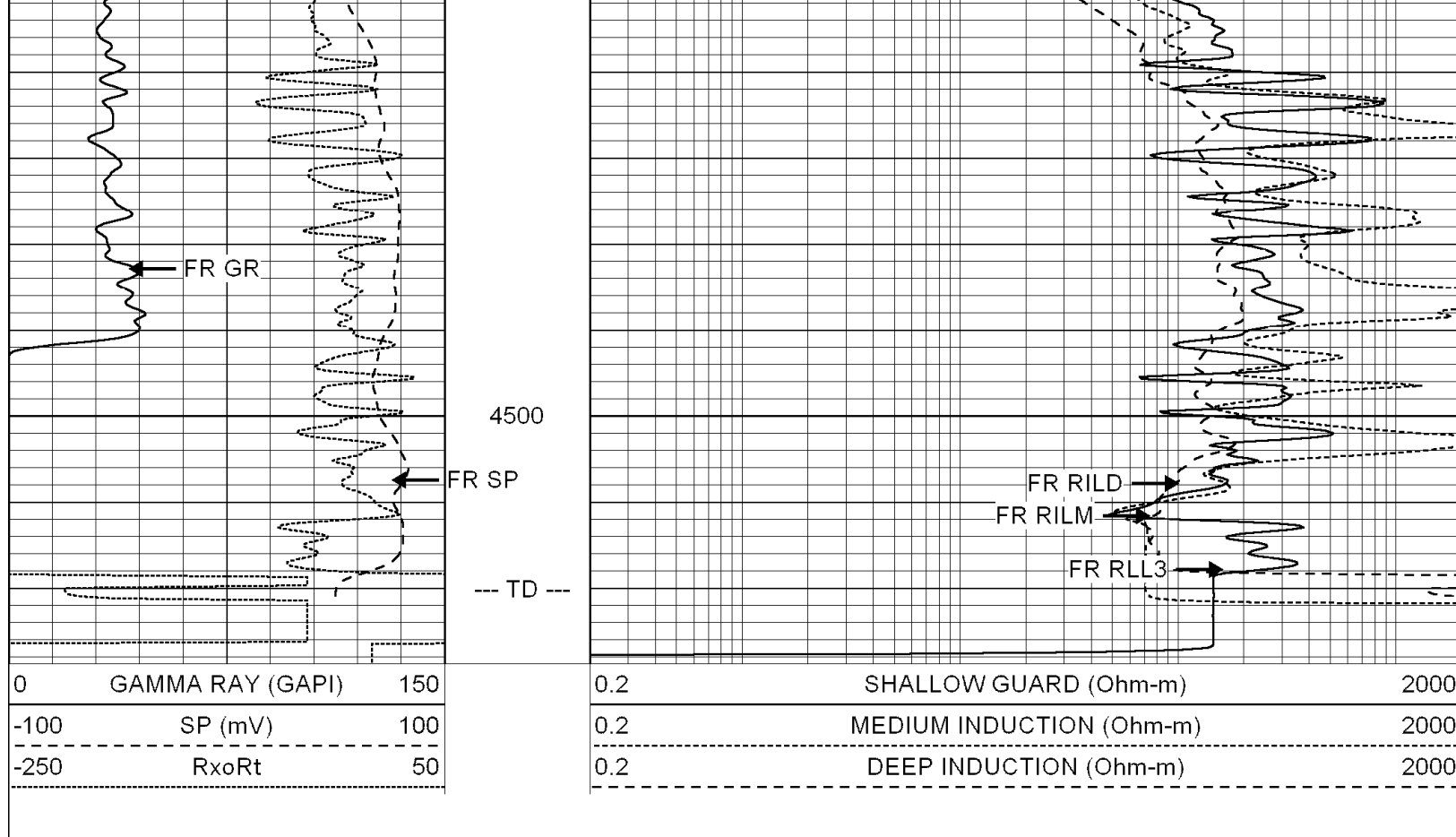
4100

4150

4200





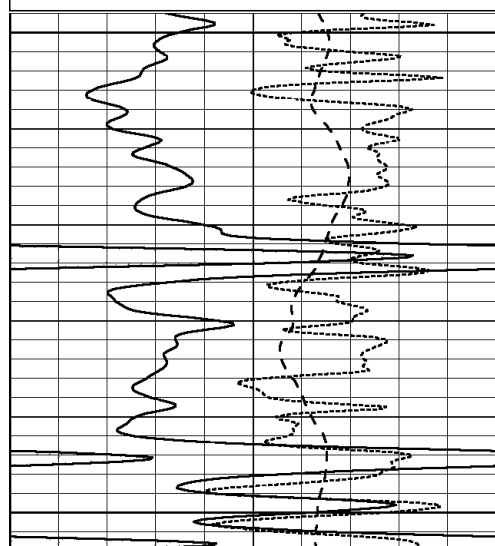


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REPEAT SECTION

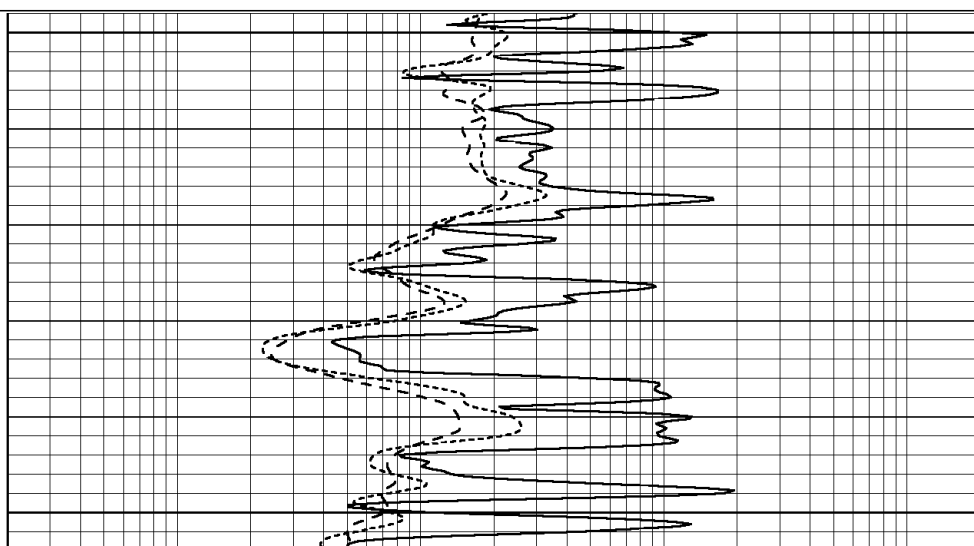
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 Dataset Pathname: pass3.A
 Presentation Format: dil
 Dataset Creation: Sat Nov 14 18:45:54 2009
 Charted by: Depth in Feet scaled 1:240

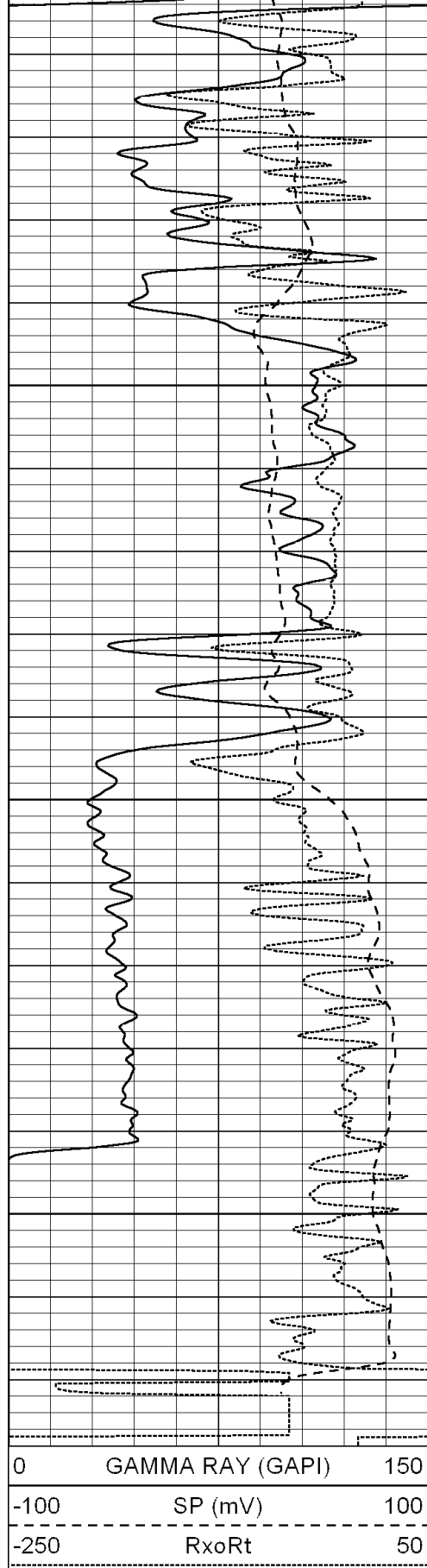
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



4300

4350

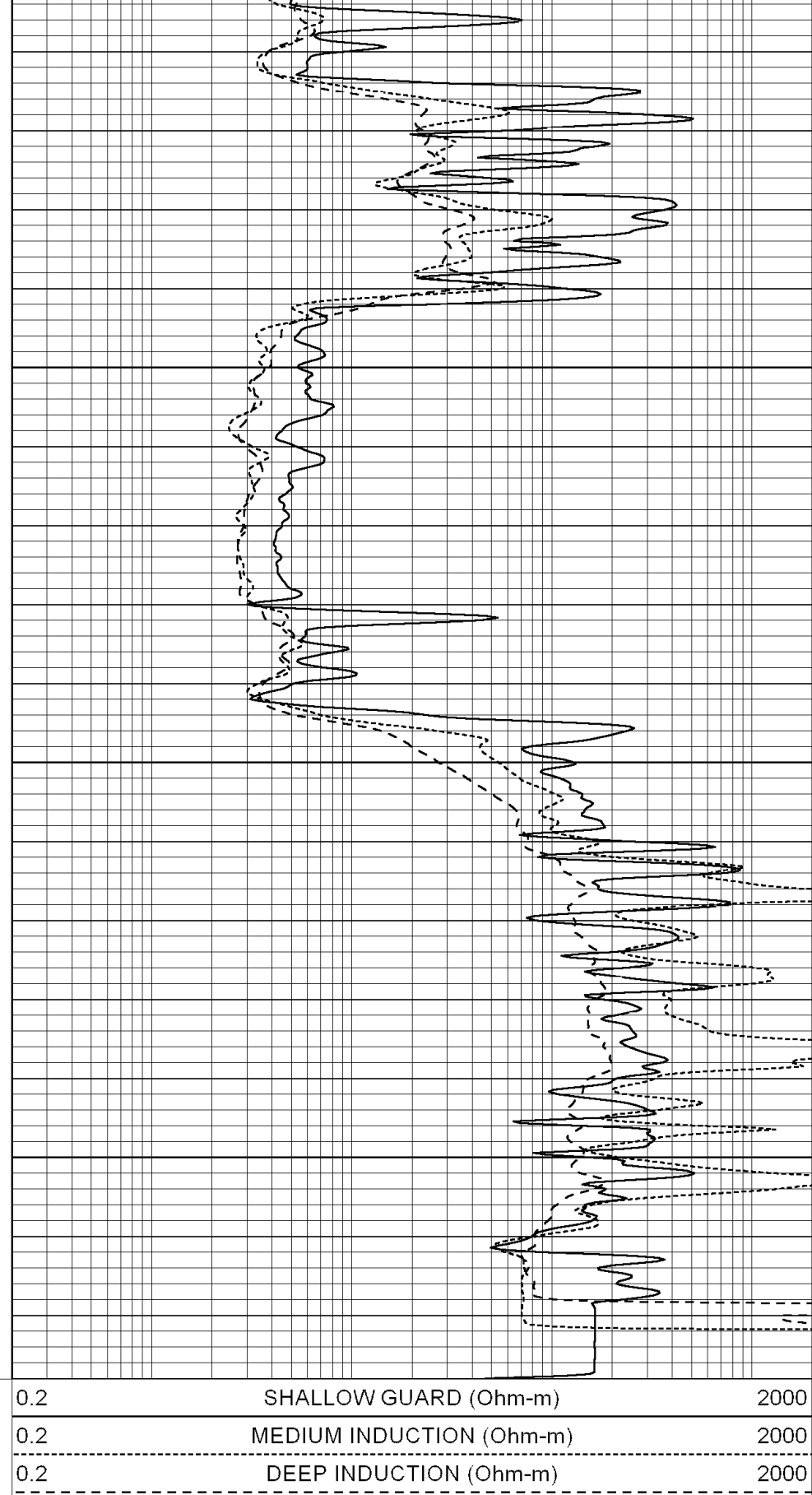




4400

4450

4500



Calibration Report

Database File: 004307ddn.db
Dataset Pathname: pass4.A
Dataset Creation: Sat Nov 14 18:34:20 2009 by Calc Open-Cased 051020

Dual Induction Calibration Report

Serial-Model:
Performed:DIL5-GEAR
Sat Nov 14 17:15:36 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	580.000	-7.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	570.000	-14.000
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:
Source / Verifier:
Master Calibration Performed:GEAR1-GEARHART
147 / 147
Sat Nov 14 11:33:54 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	8.00	in	3.68	V		
Large Ring	14.00	in	6.06	V		

Compensated Neutron Calibration Report

Serial Number:
Tool Model:NEU_1I
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: Sat Nov 14 16:52:22 2009

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps