



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	RITCHIE EXPLORATION, INC.		
Well	#2 STUCKY 36D		
Field	LOGAN		
County	KANSAS		
State	KANSAS		
Company	RITCHIE EXPLORATION, INC.		
Well	#2 STUCKY 36D		
Field	LOGAN		
County	LOGAN		
State	KANSAS		
Location:	API # : 15-109-20889		Other Services
660' FSL & 330' FEL		CDL/CNL	
SEC 36 TWP 13S RGE 32W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2928
Log Measured From	KELLY BUSHING 10' A.G.L.	K.B. 2938	
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L. 2928	
Date	11-15-09		
Run Number	ONE		
Depth Driller	4655		
Depth Logger	4658		
Bottom Logged Interval	4656		
Top Log Interval	00		
Casing Driller	219		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 66		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 70F		
Rinf @ Meas. Temp	0.75 @ 70F		
Rmc @ Meas. Temp	1.20 @ 70F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.580 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TERRY McLEOD		

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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, 11S, 3E, 6S, 1W, N INTO.



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MAIN SECTION

Database File: 004308ddn.db
Dataset Pathname: pass3.1
Presentation Format: dil2
Dataset Creation: Sun Nov 15 21:05:26 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:600

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

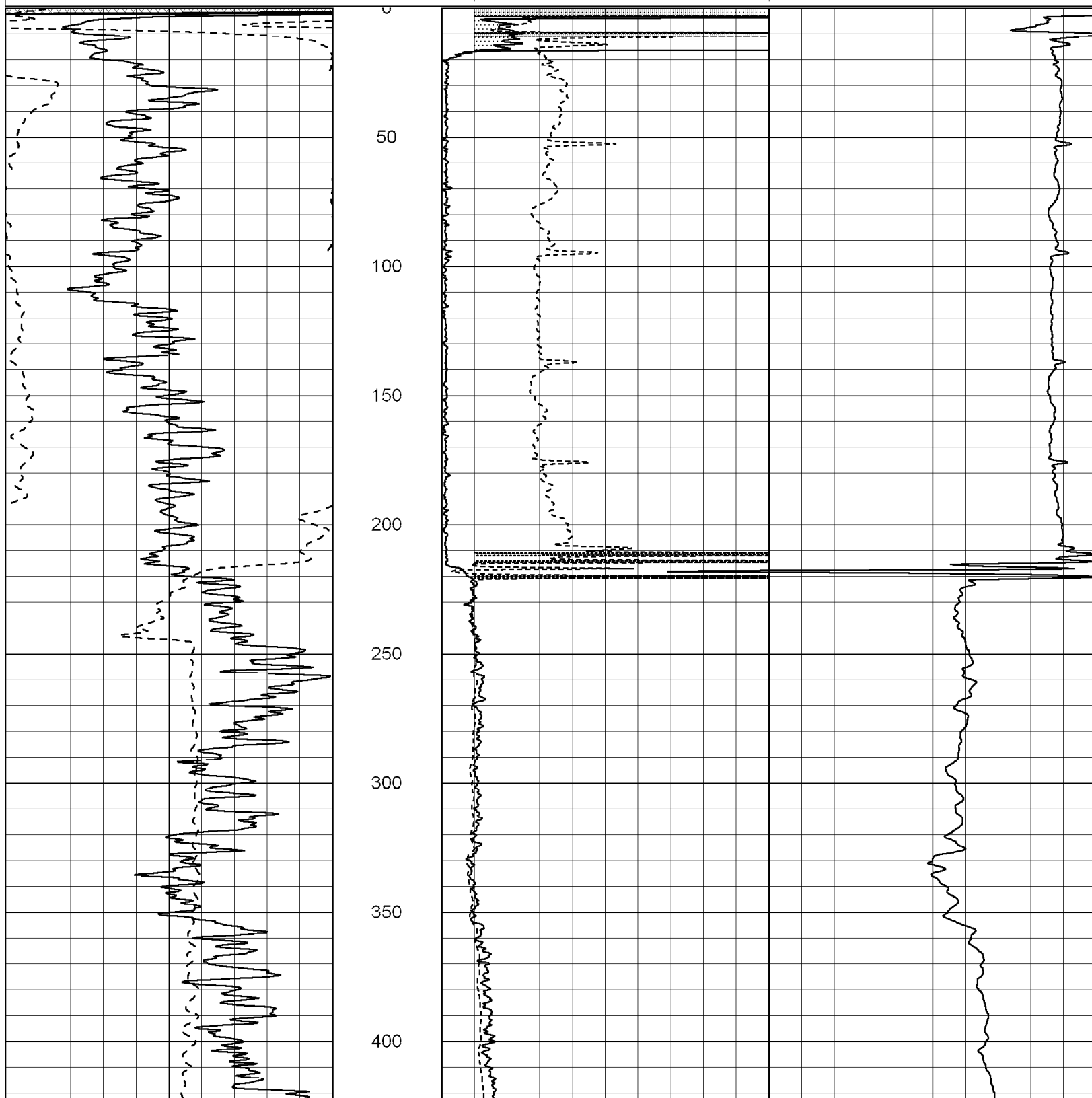
0	RLL3 (Ohm-m)	50
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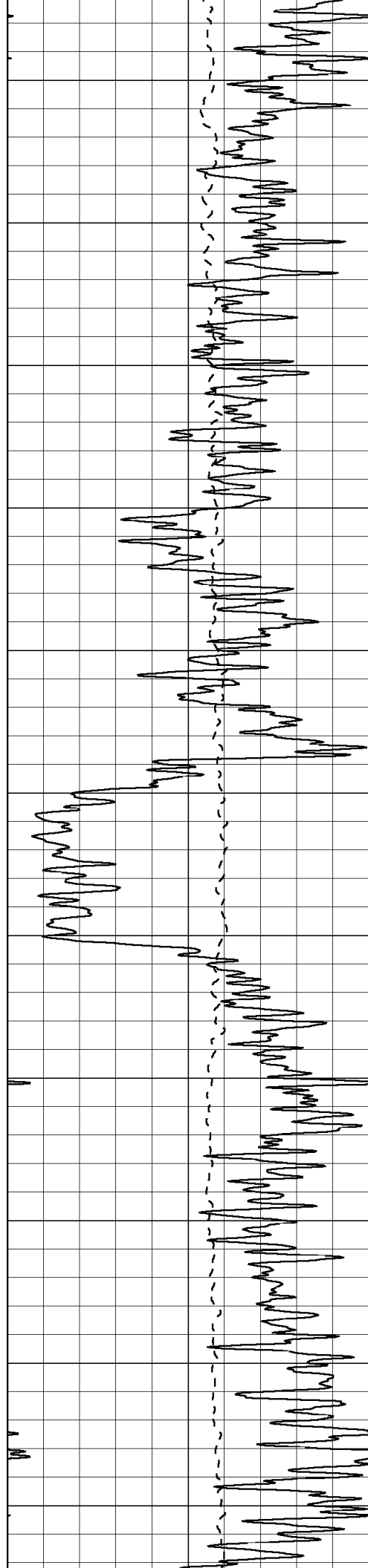
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1000	CILD (mmho-m)	0
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50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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450

500

550

600

650

700

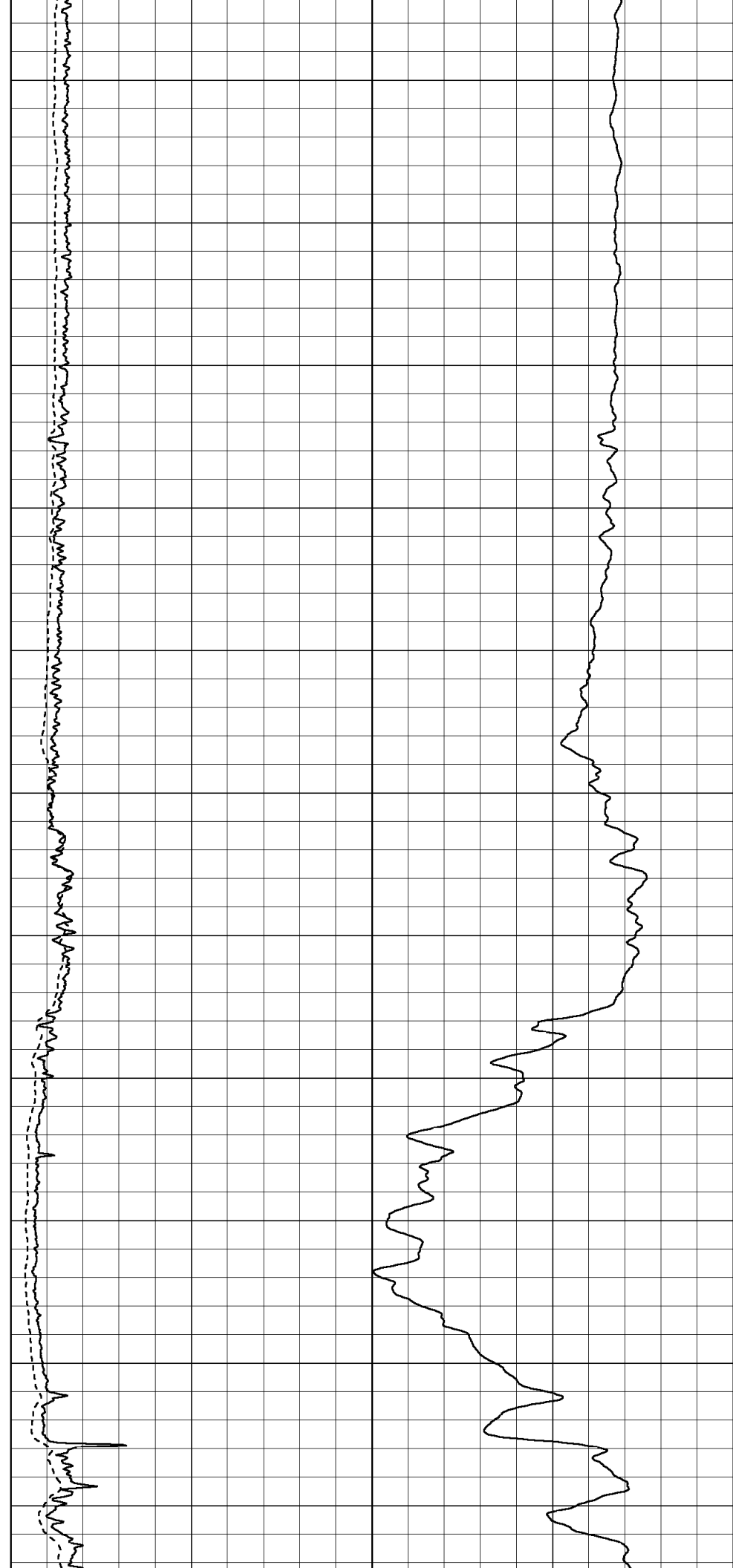
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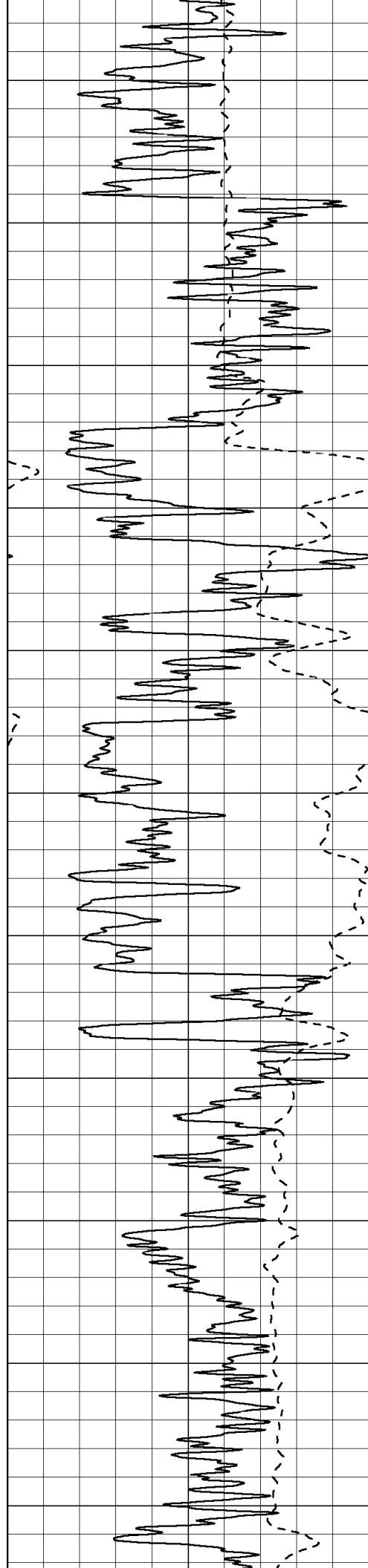
800

850

900

950





1000

1050

1100

1150

1200

1250

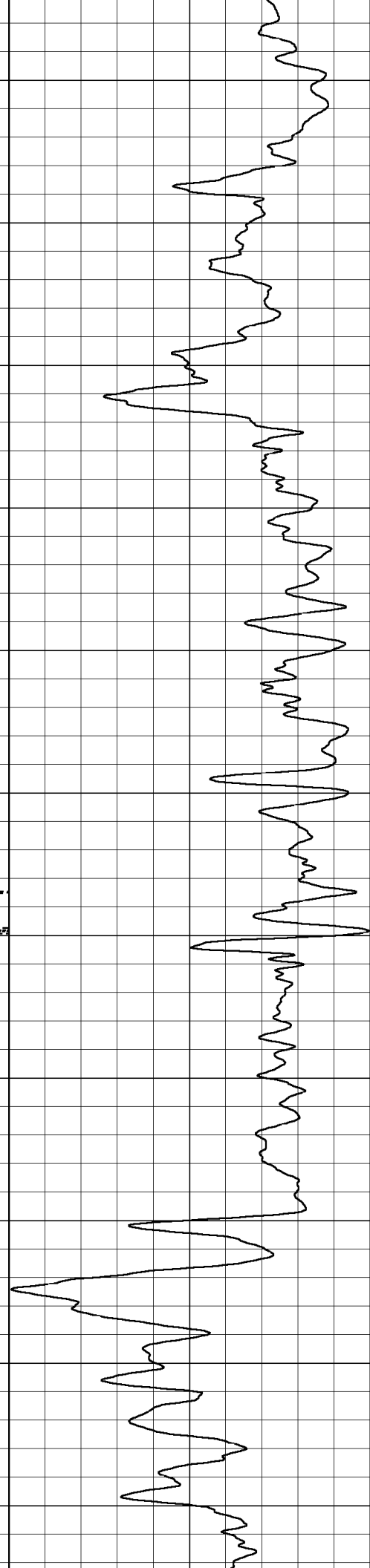
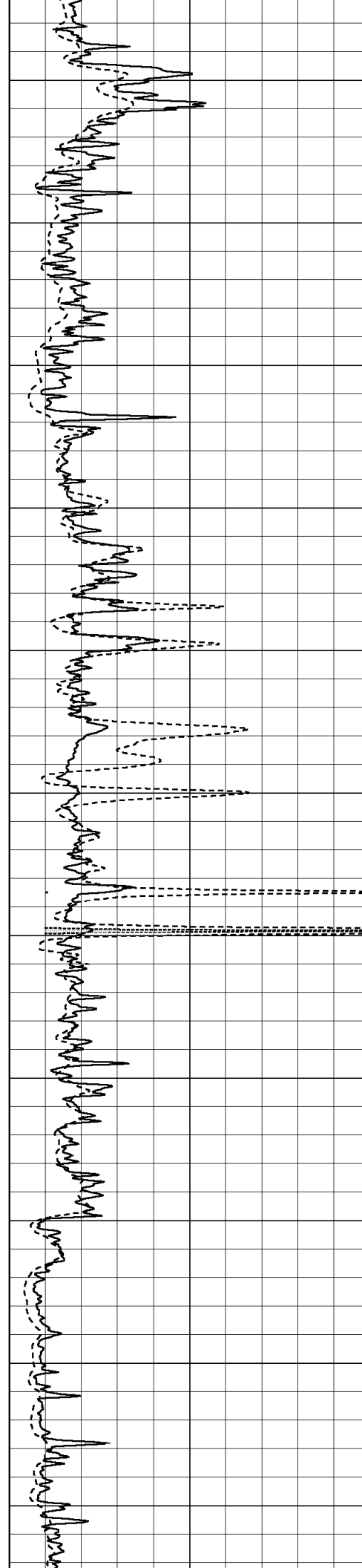
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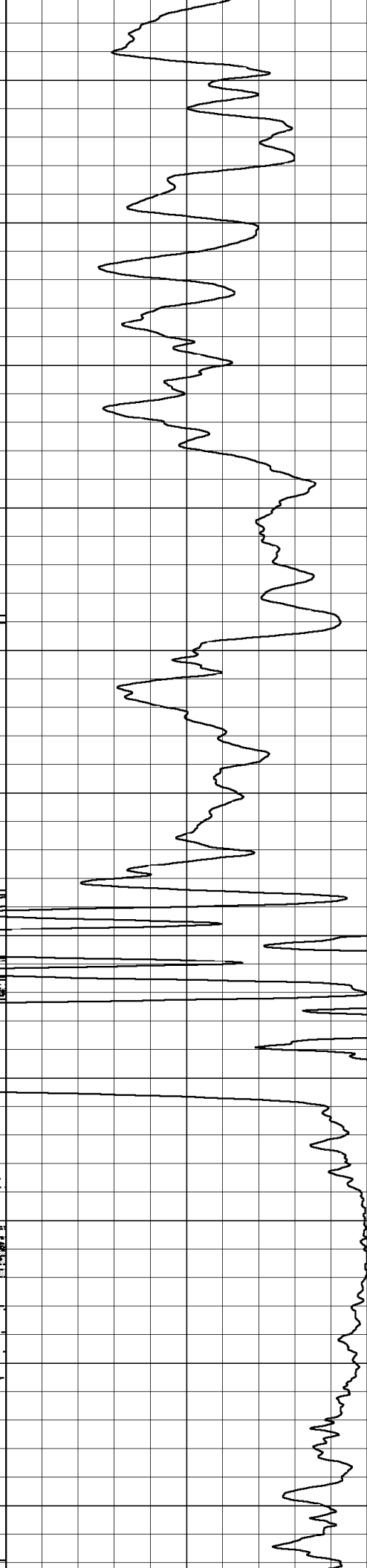
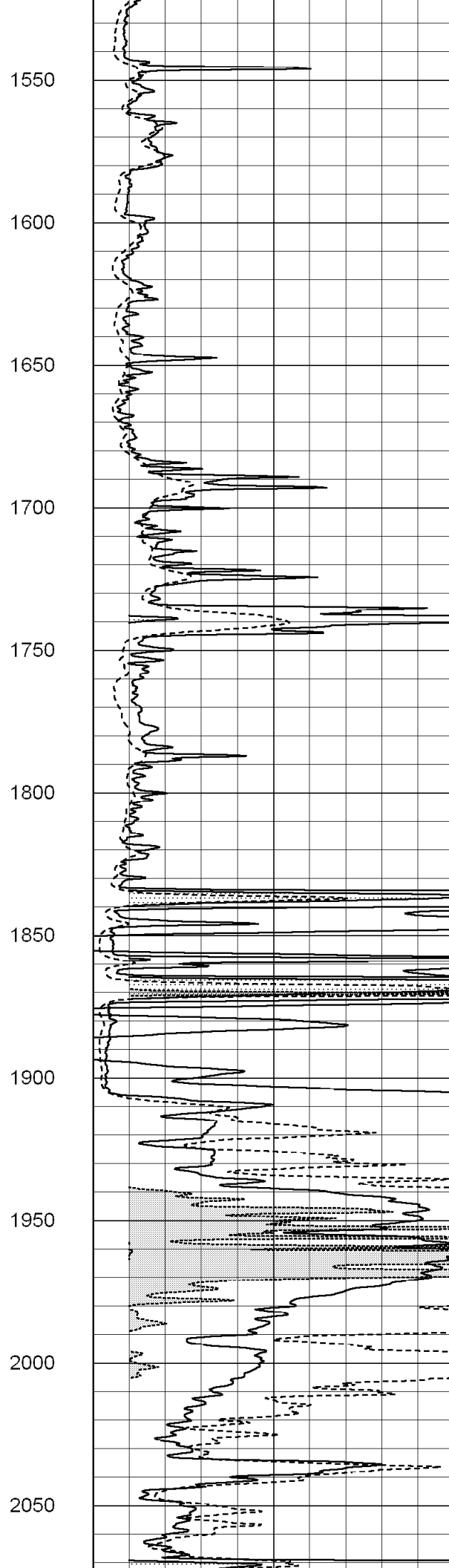
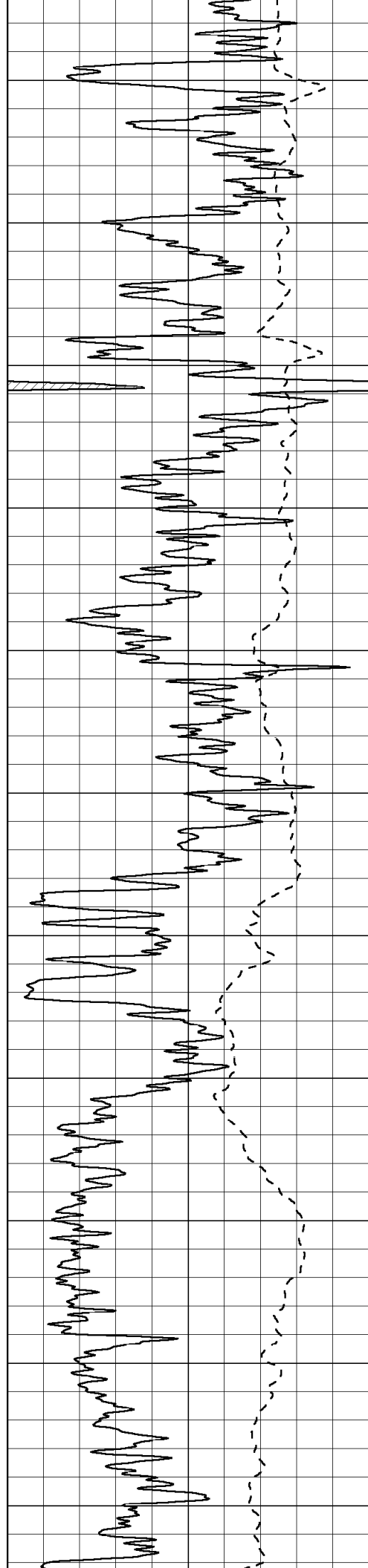
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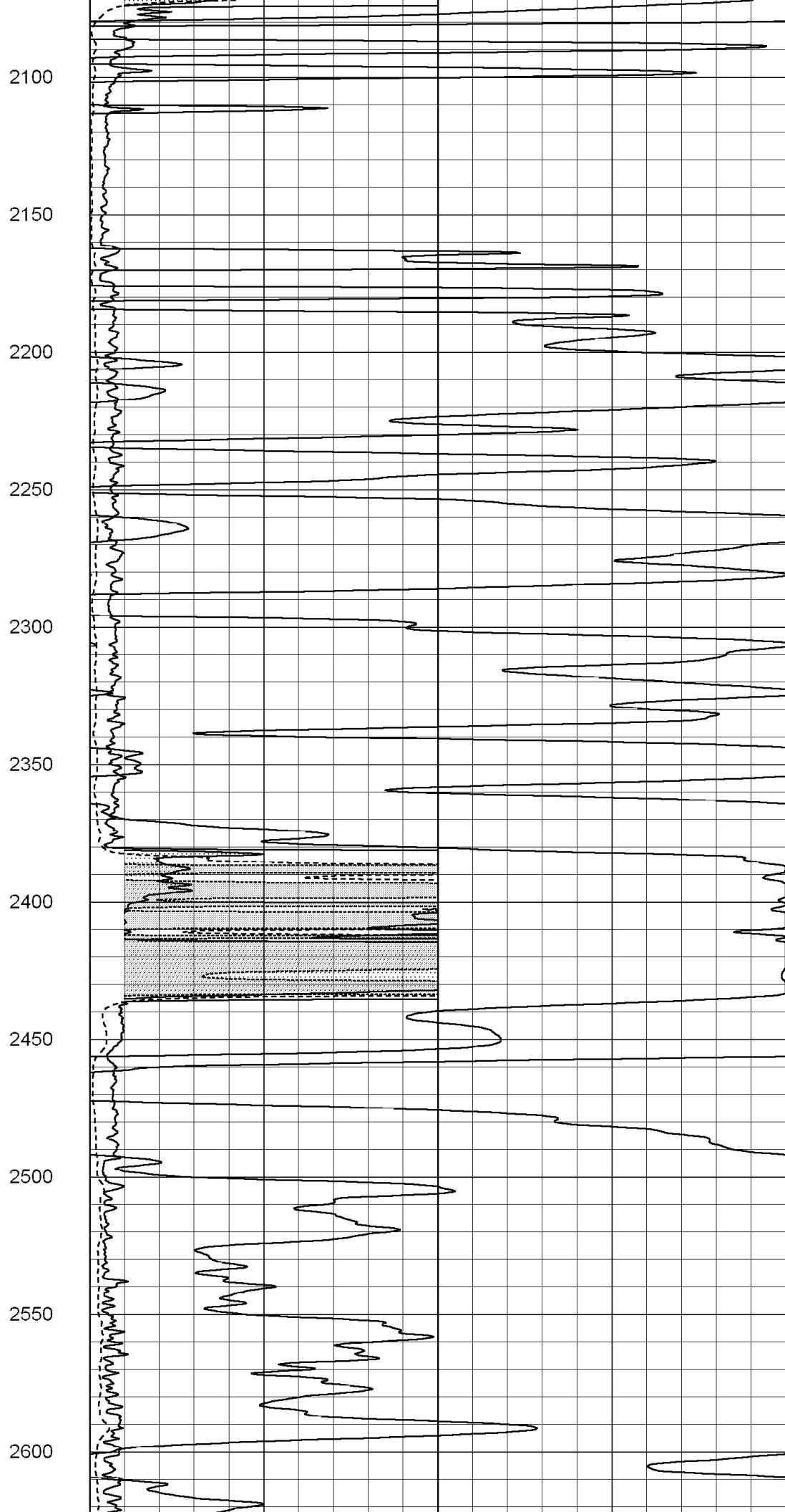
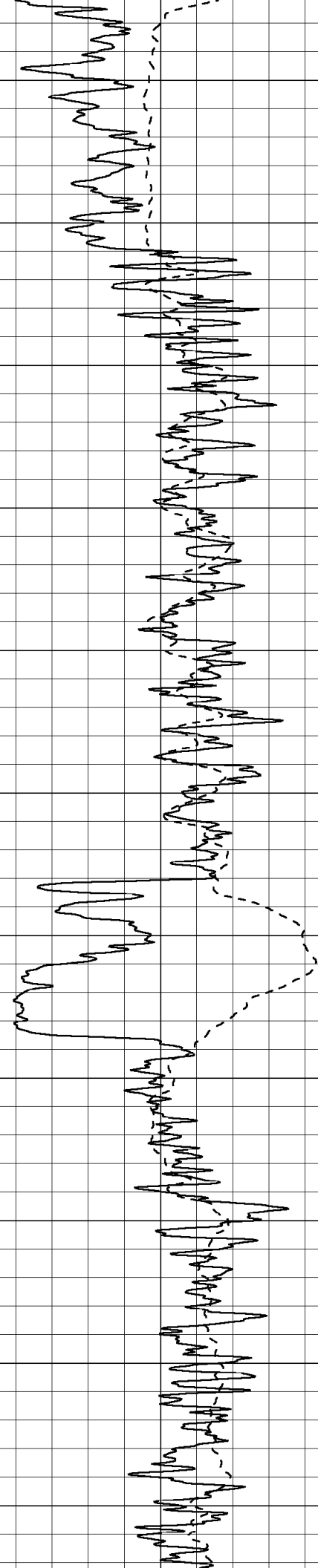
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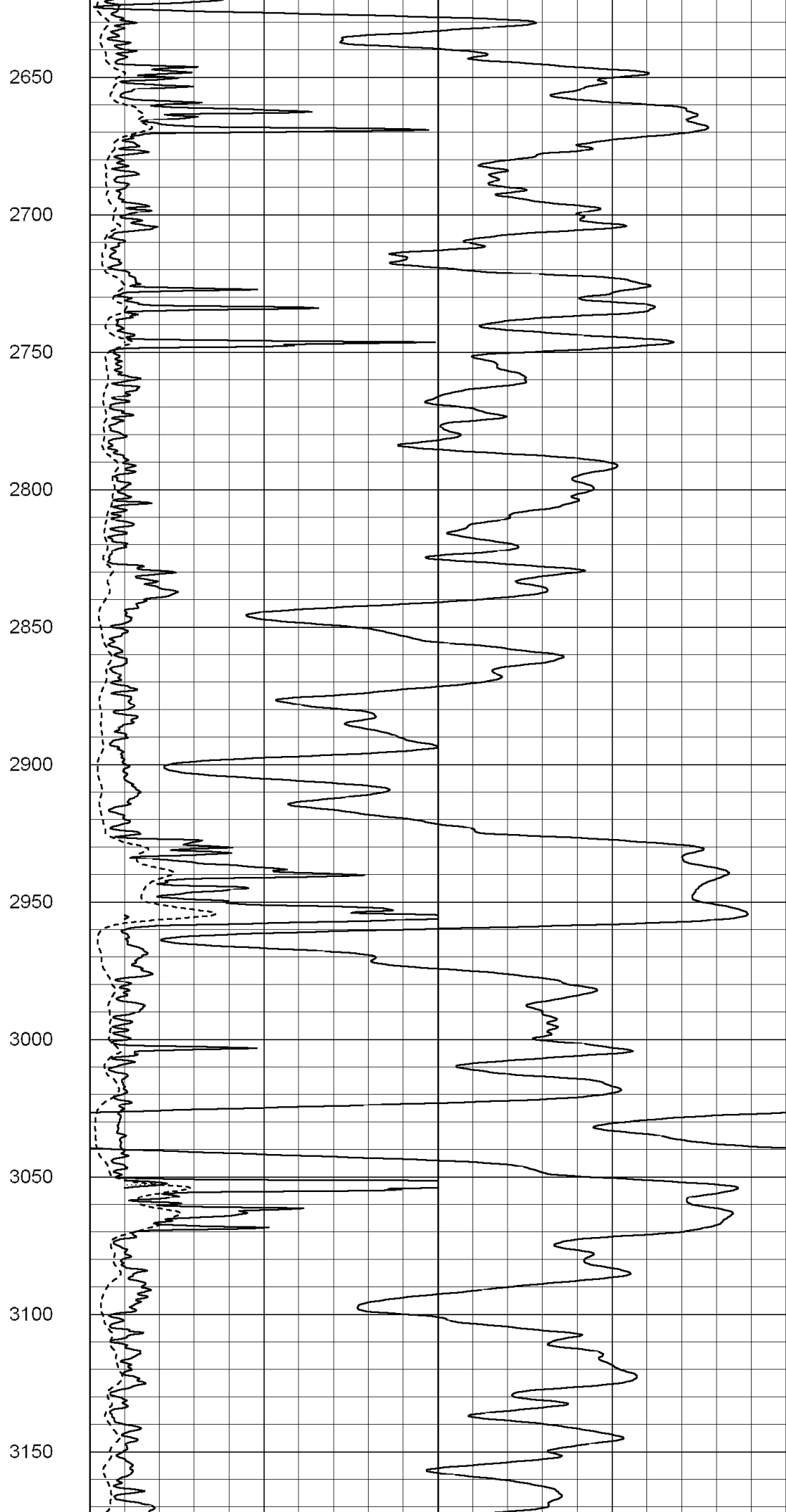
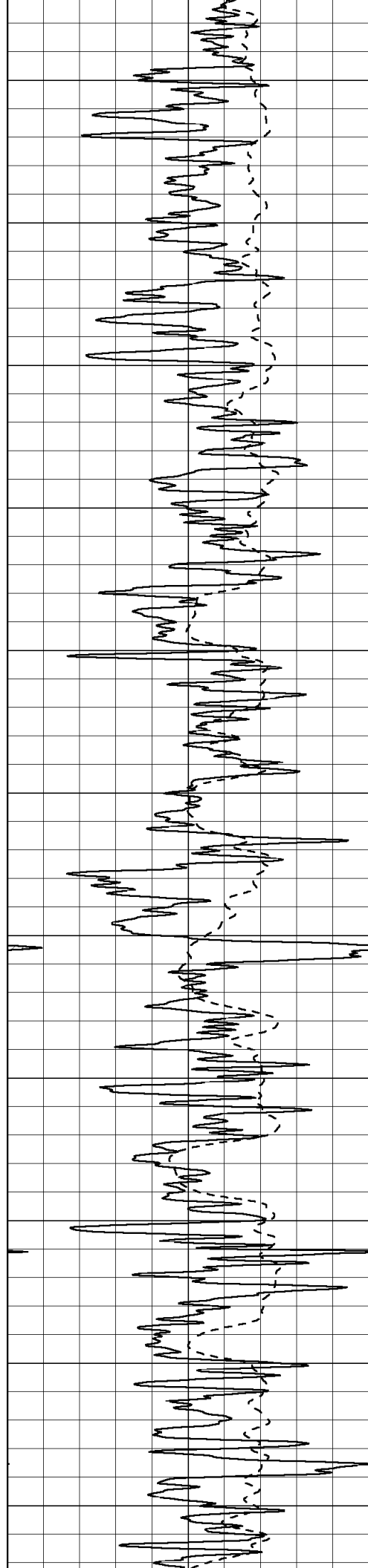
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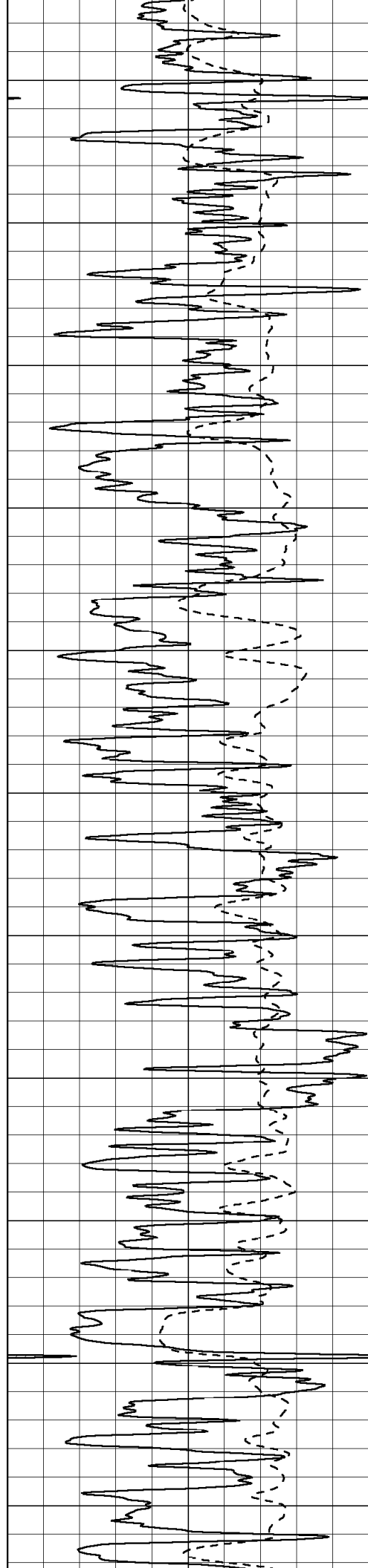
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3200

3250

3300

3350

3400

3450

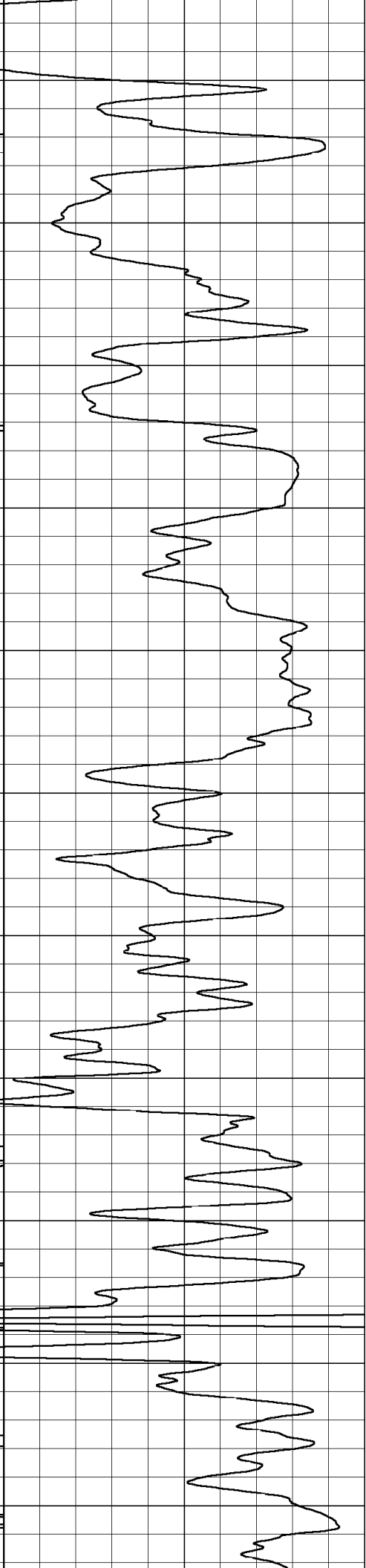
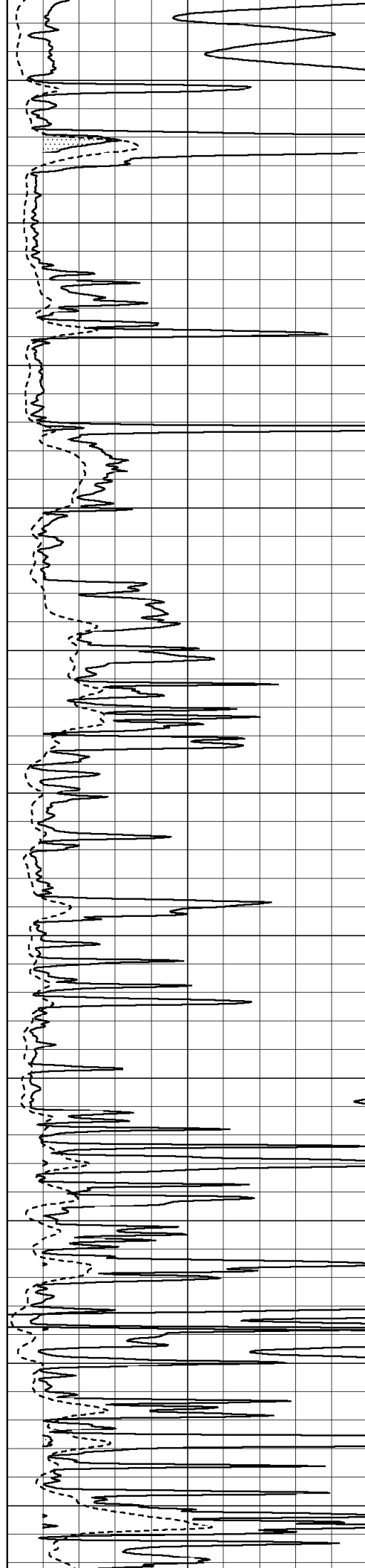
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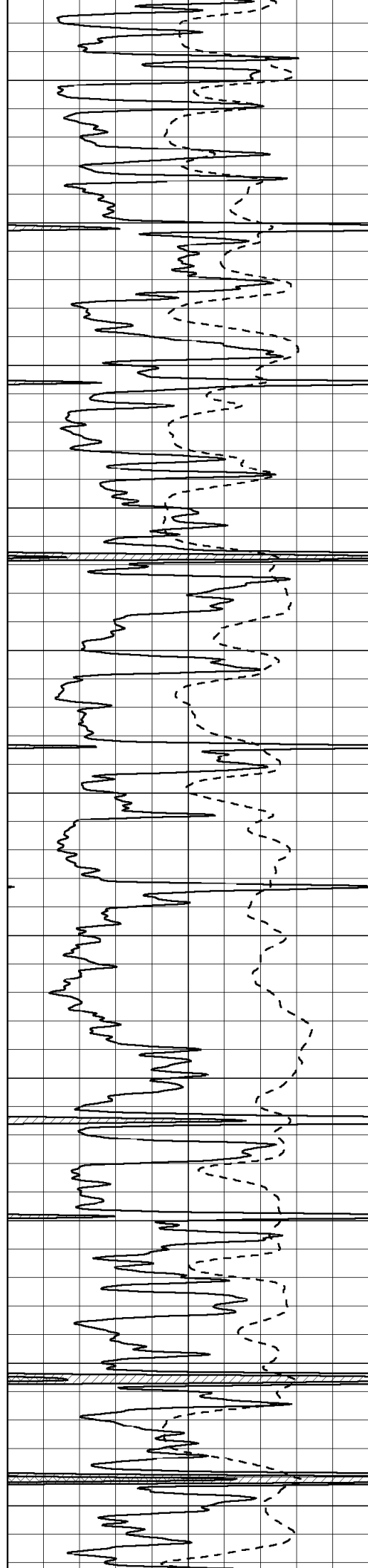
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3600

3650

3700





3750

3800

3850

3900

3950

4000

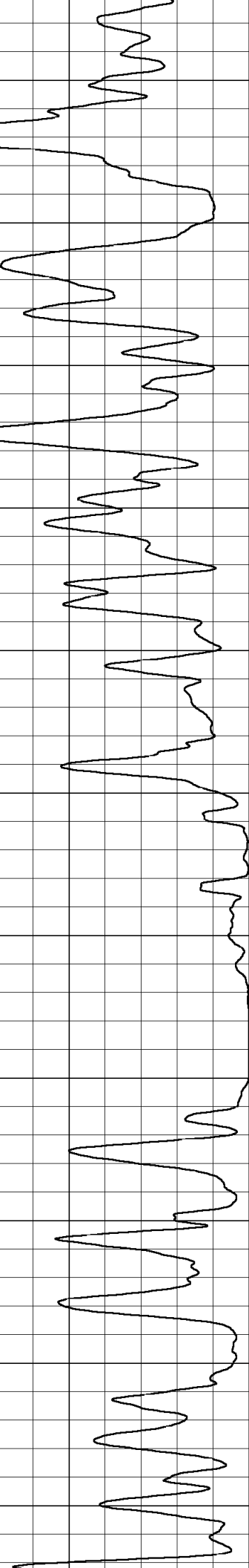
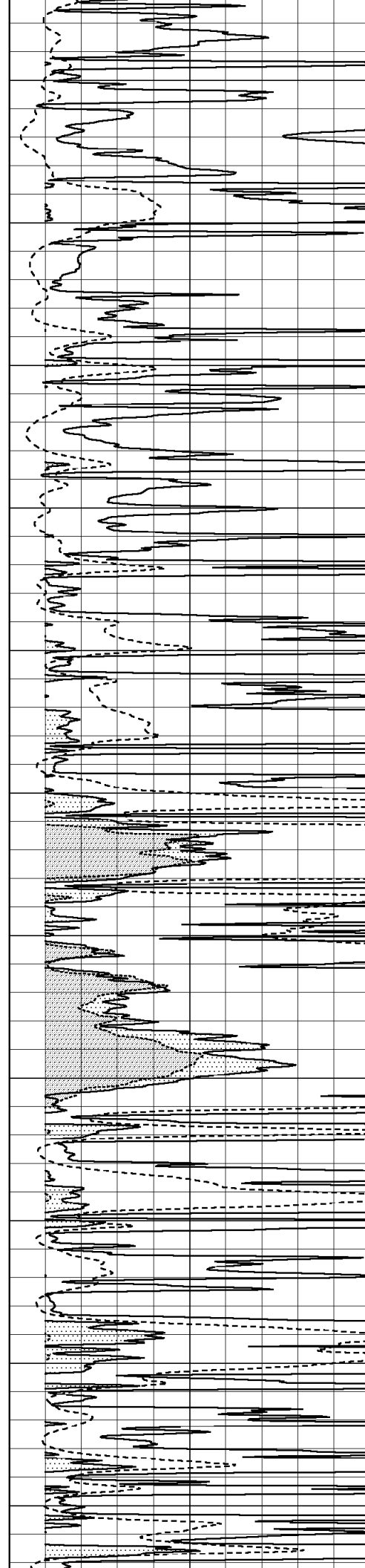
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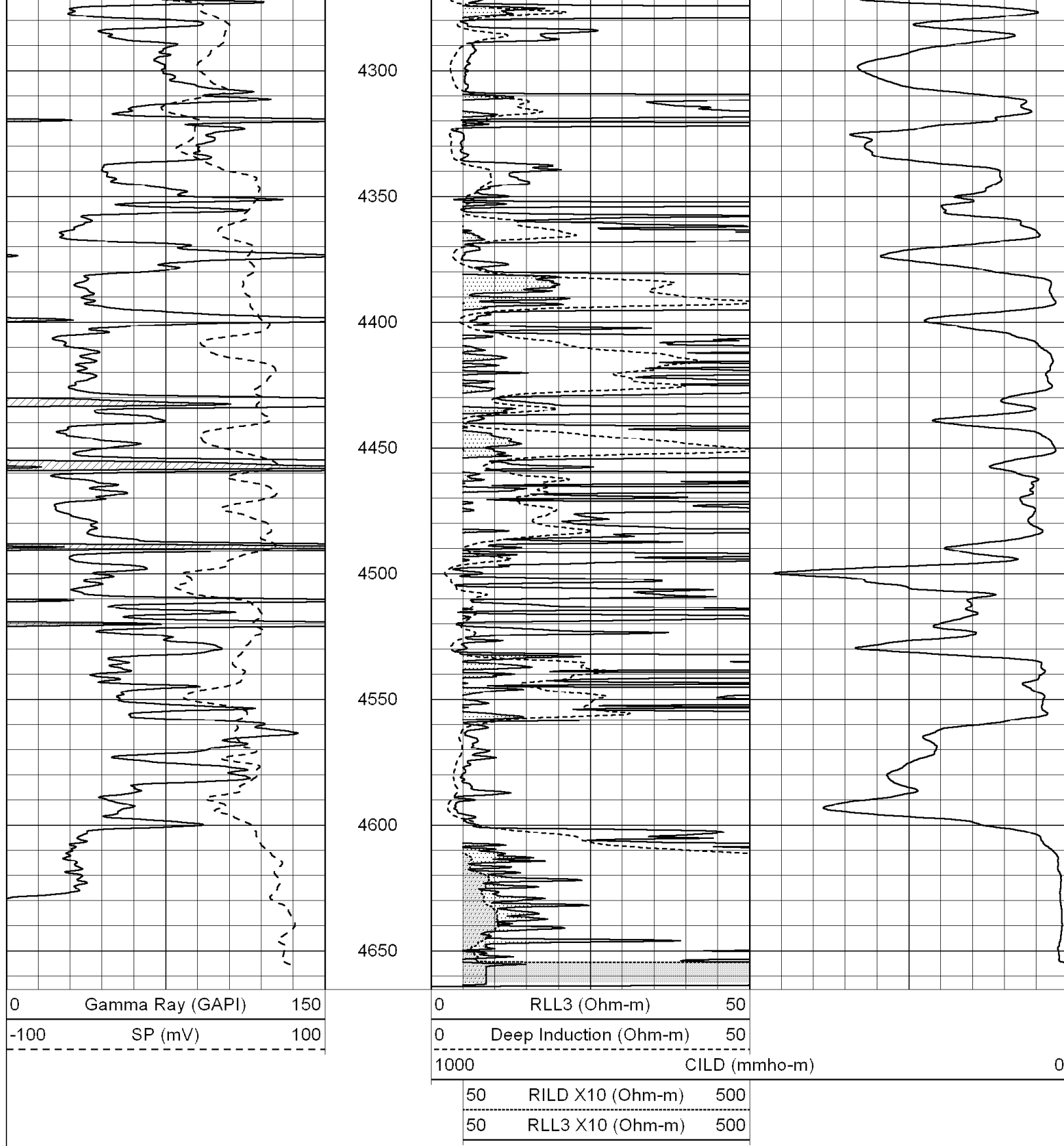
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4150

4200

4250



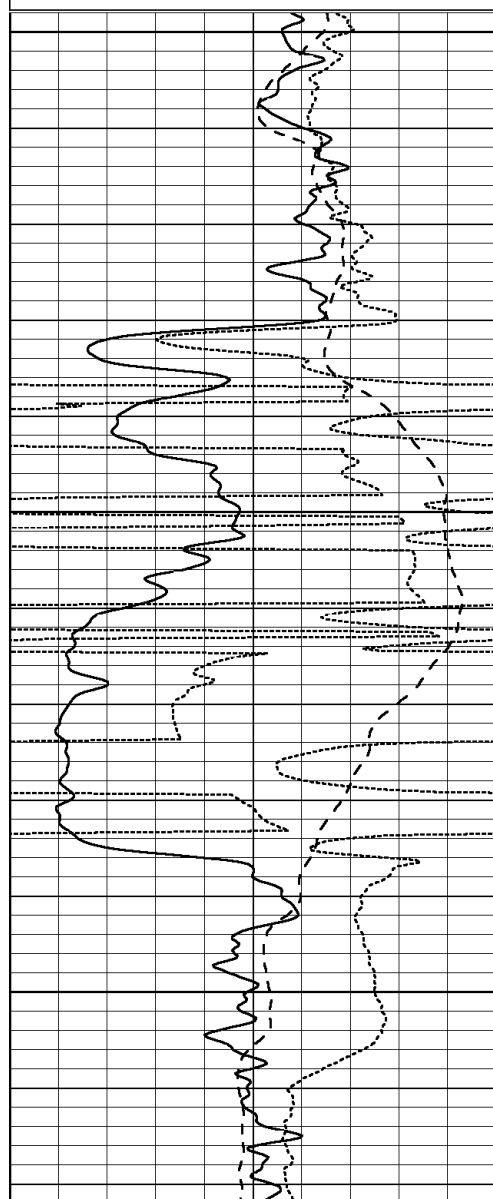


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MAIN SECTION

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

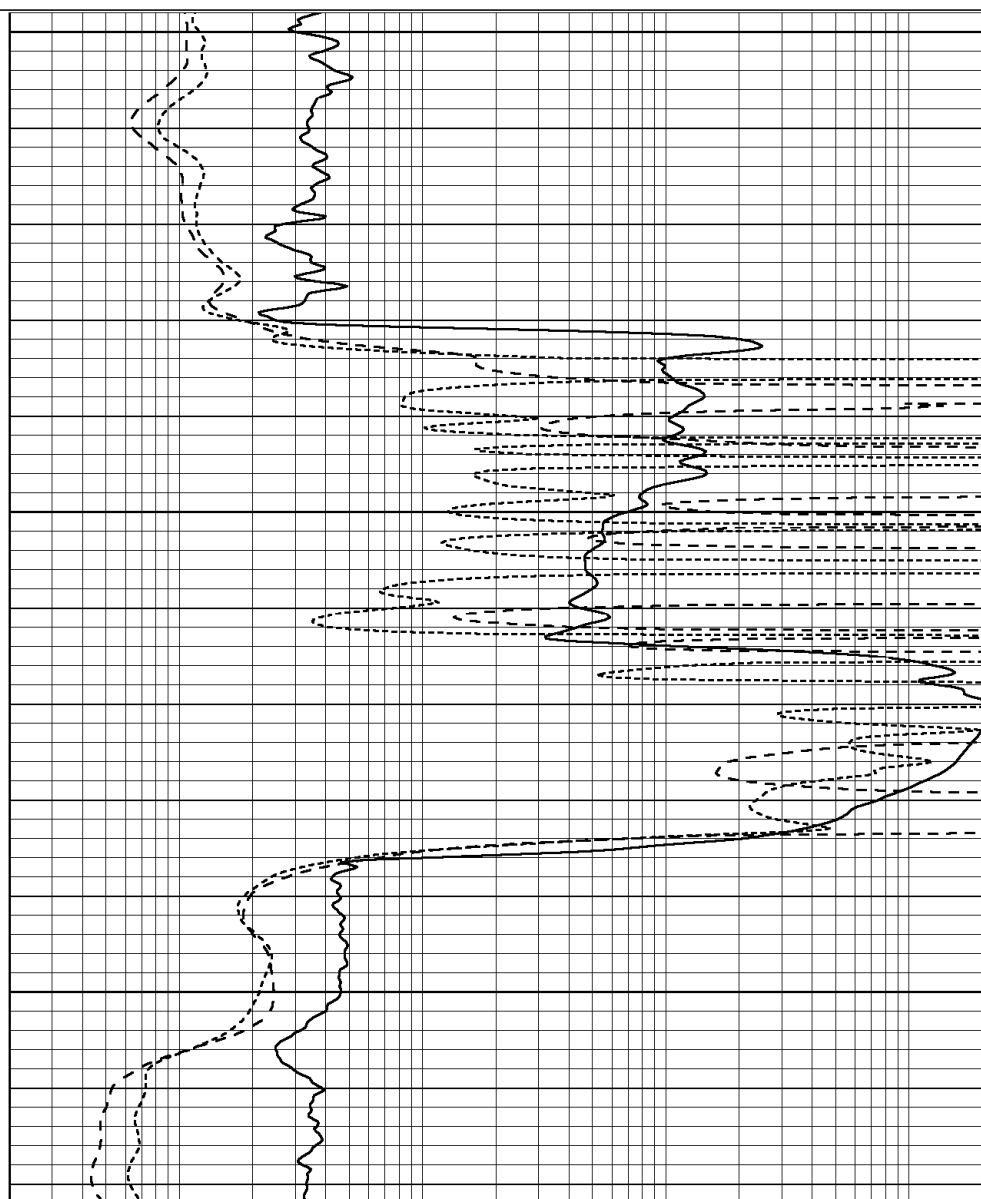
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



2350

2400

2450



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

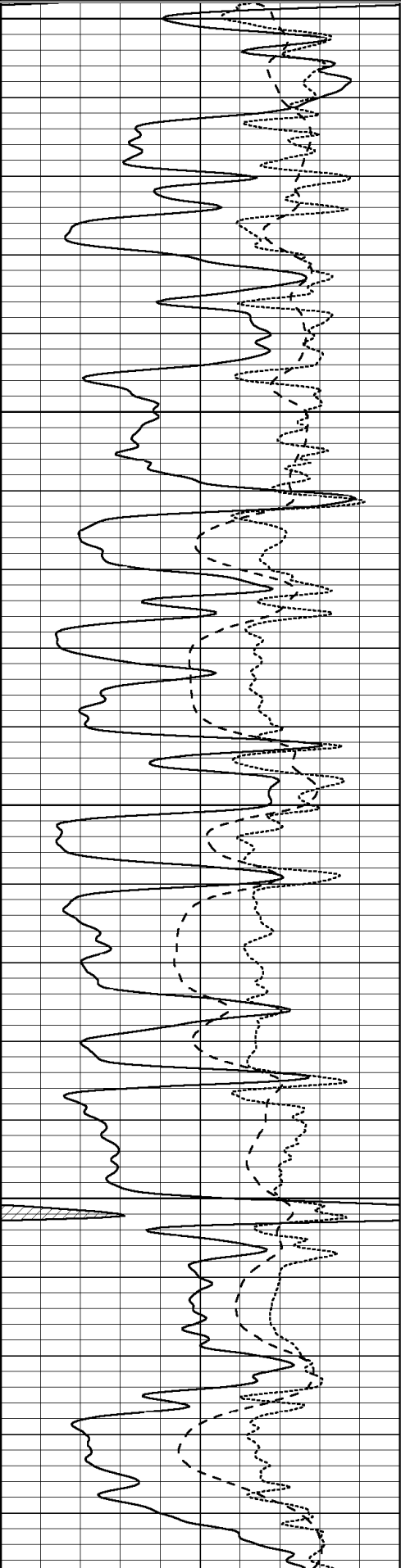
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



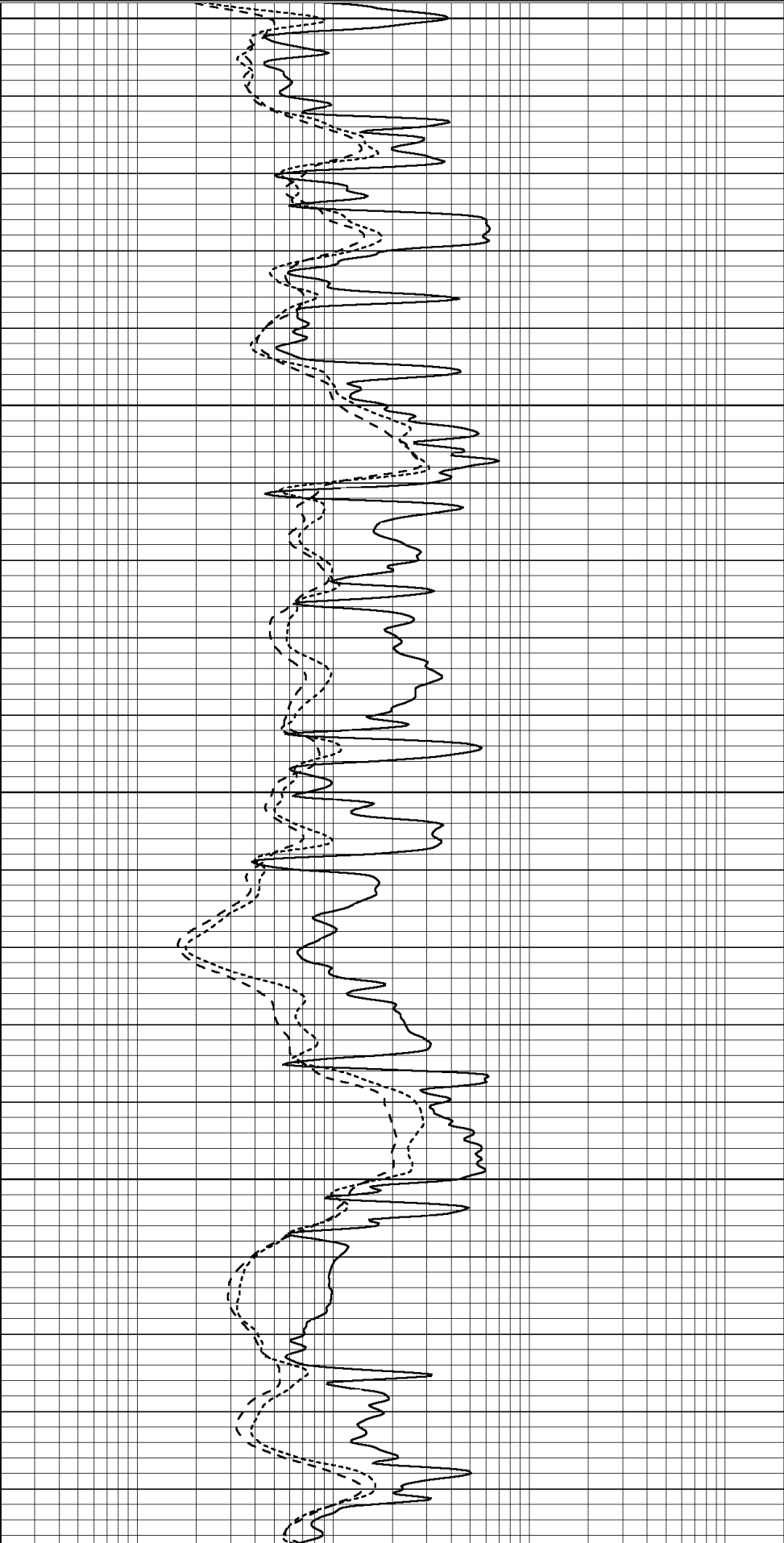
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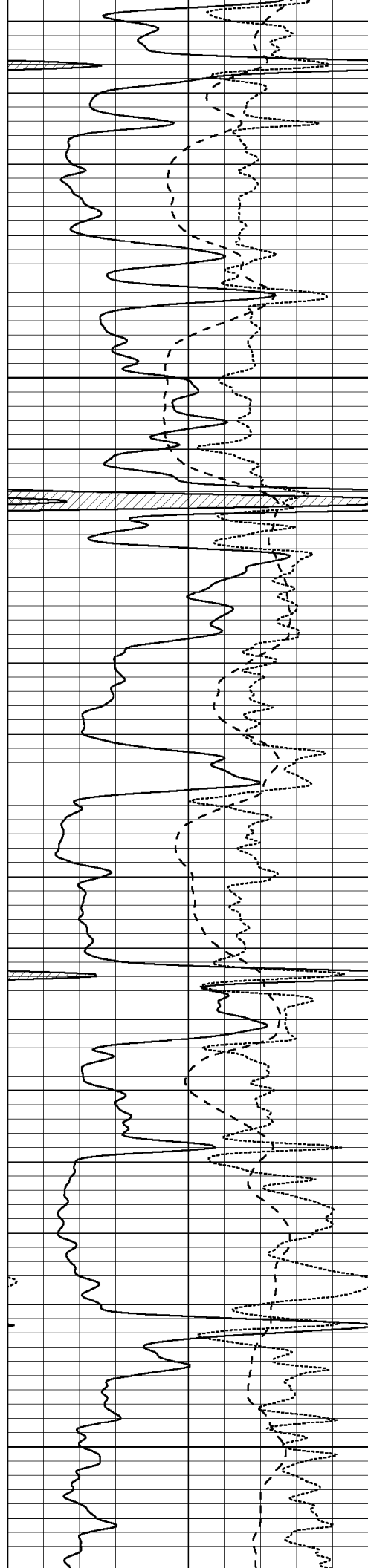
MAIN SECTION

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





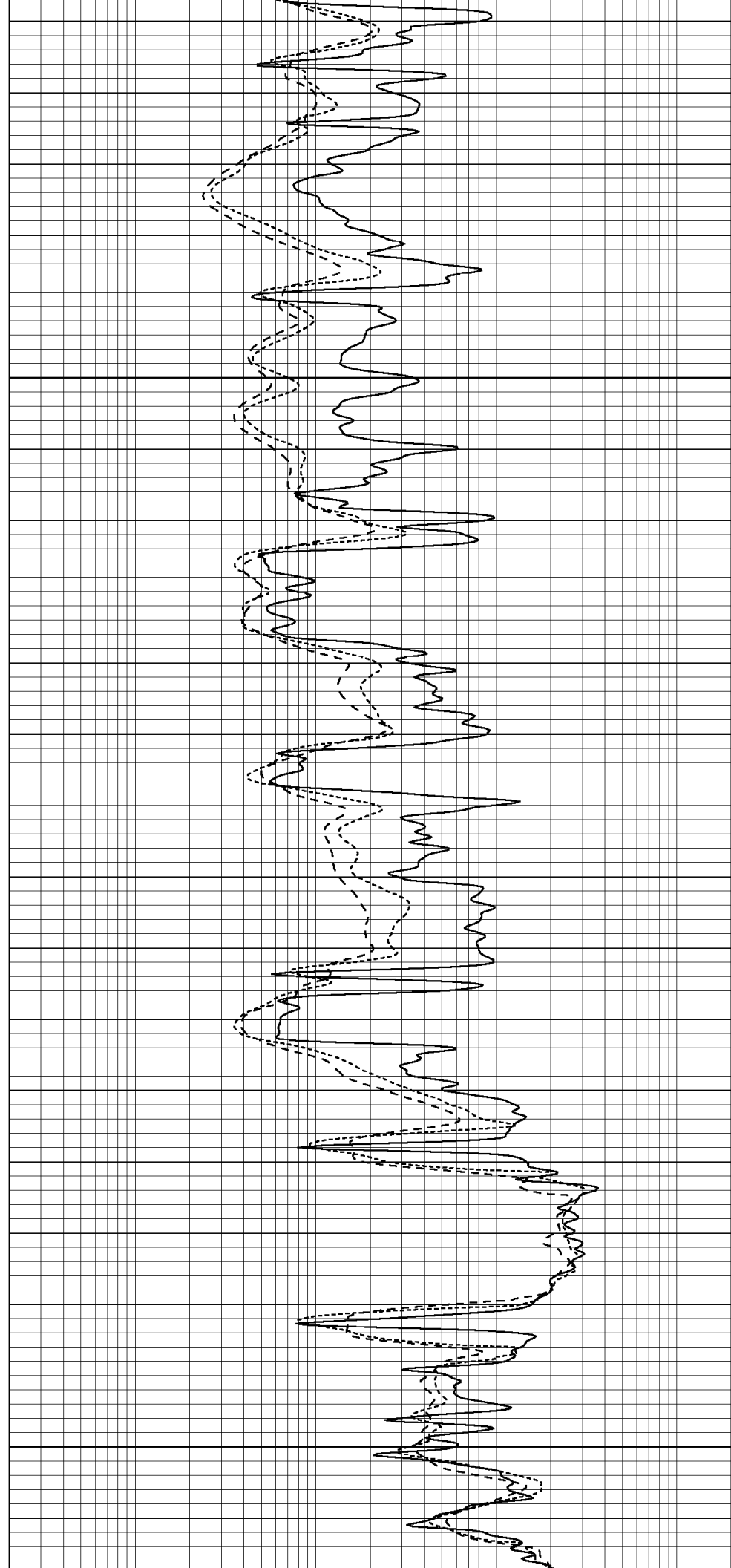
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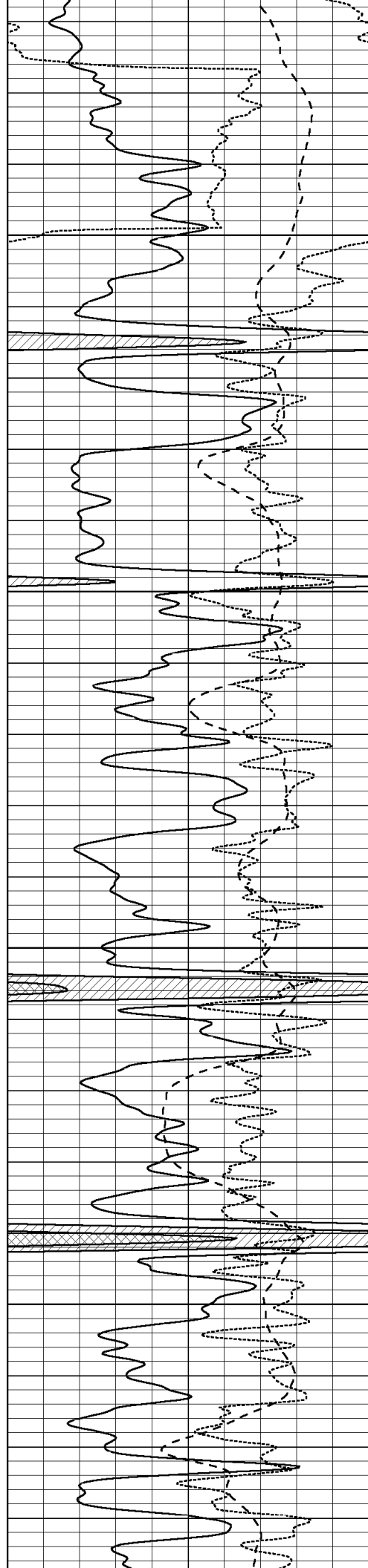
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3950

4000

4050



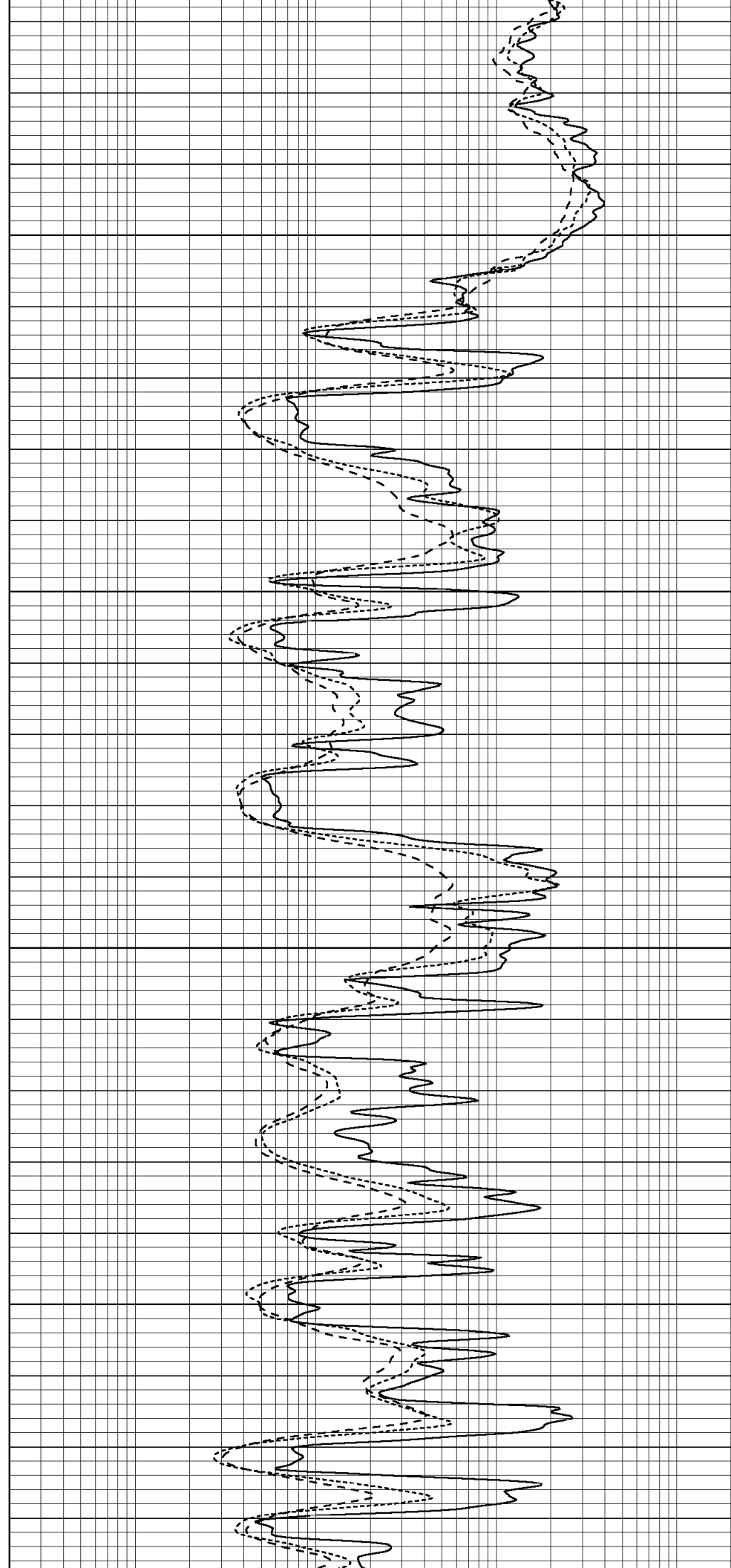


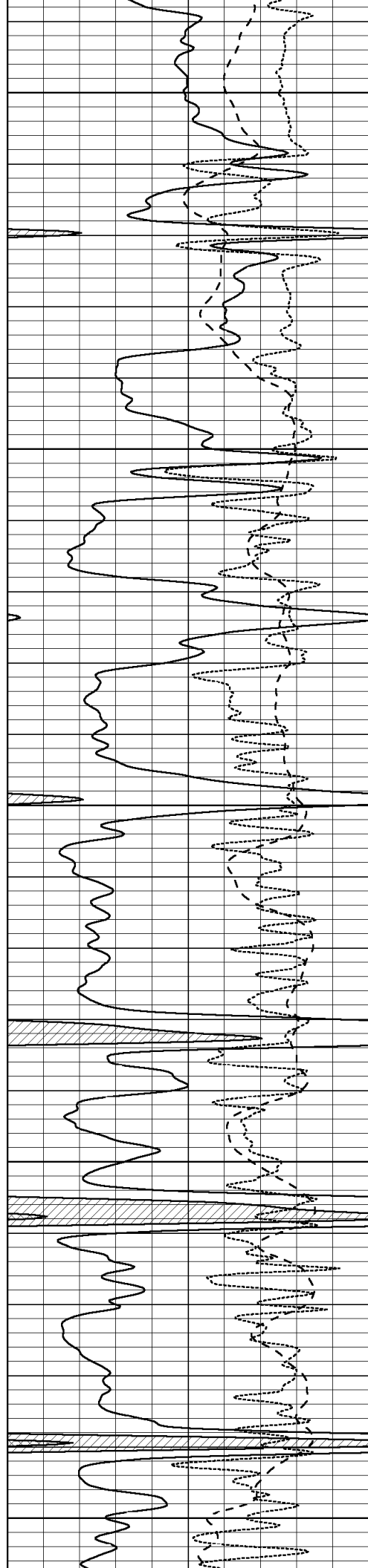
4100

4150

4200

4250





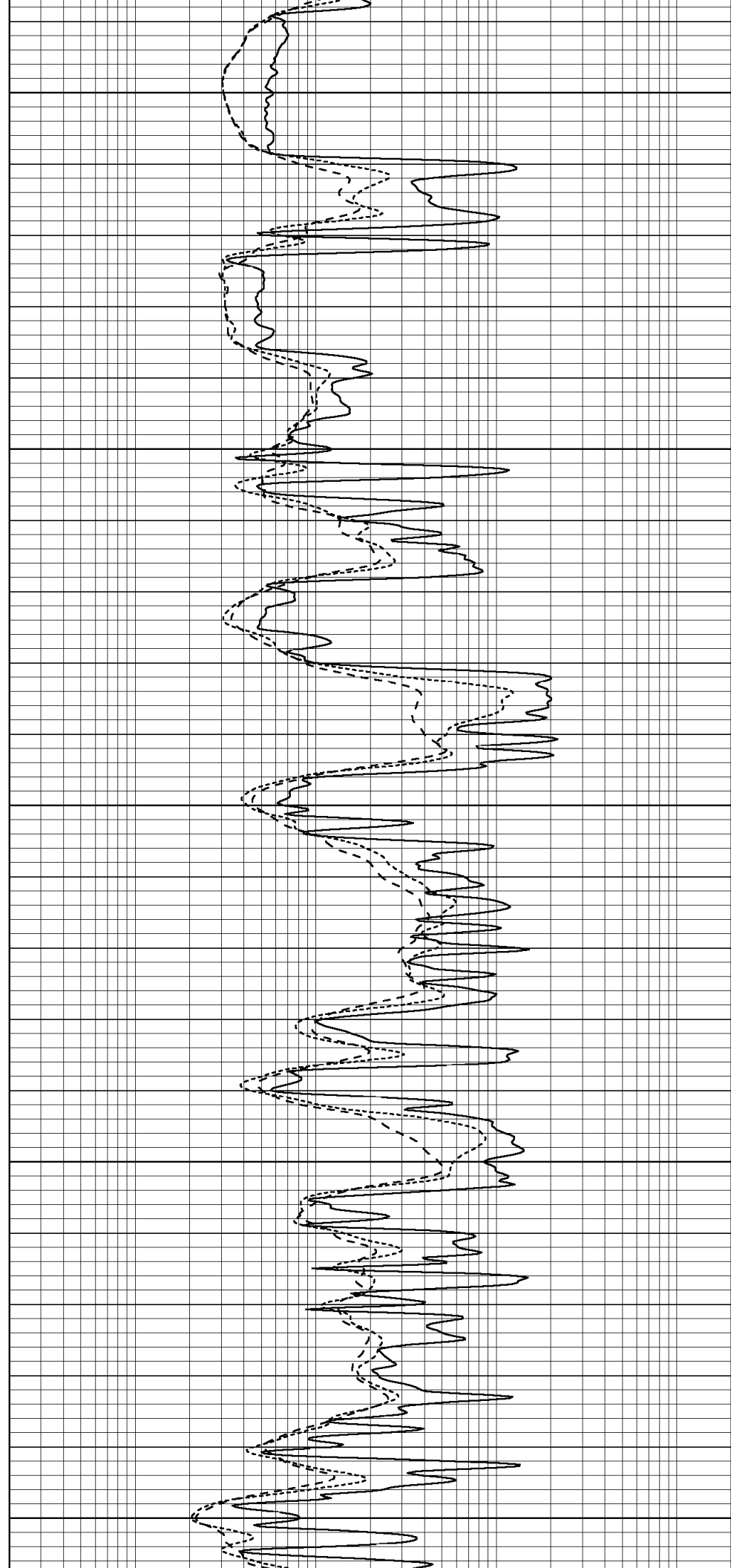
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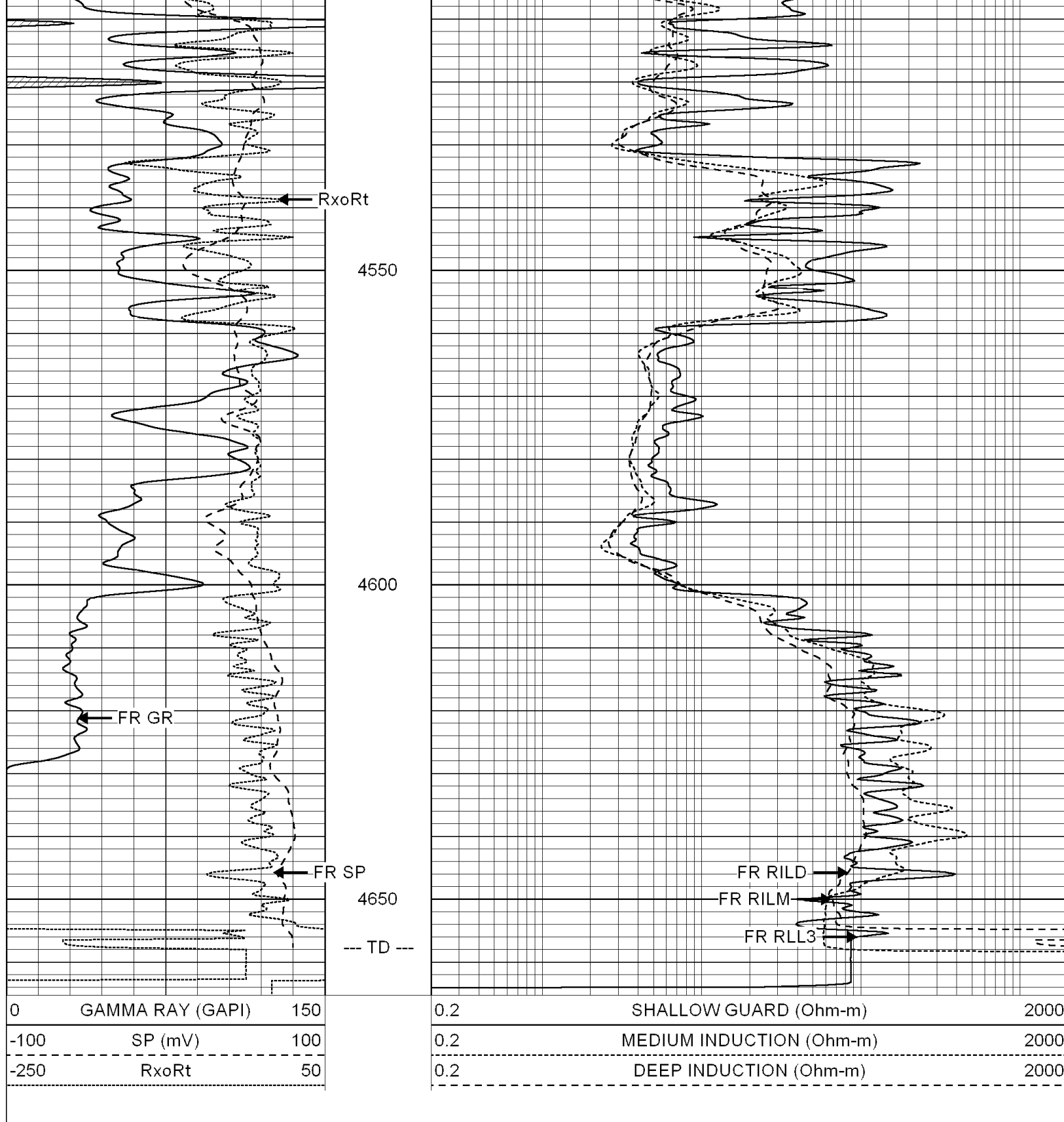
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4400

4450

4500





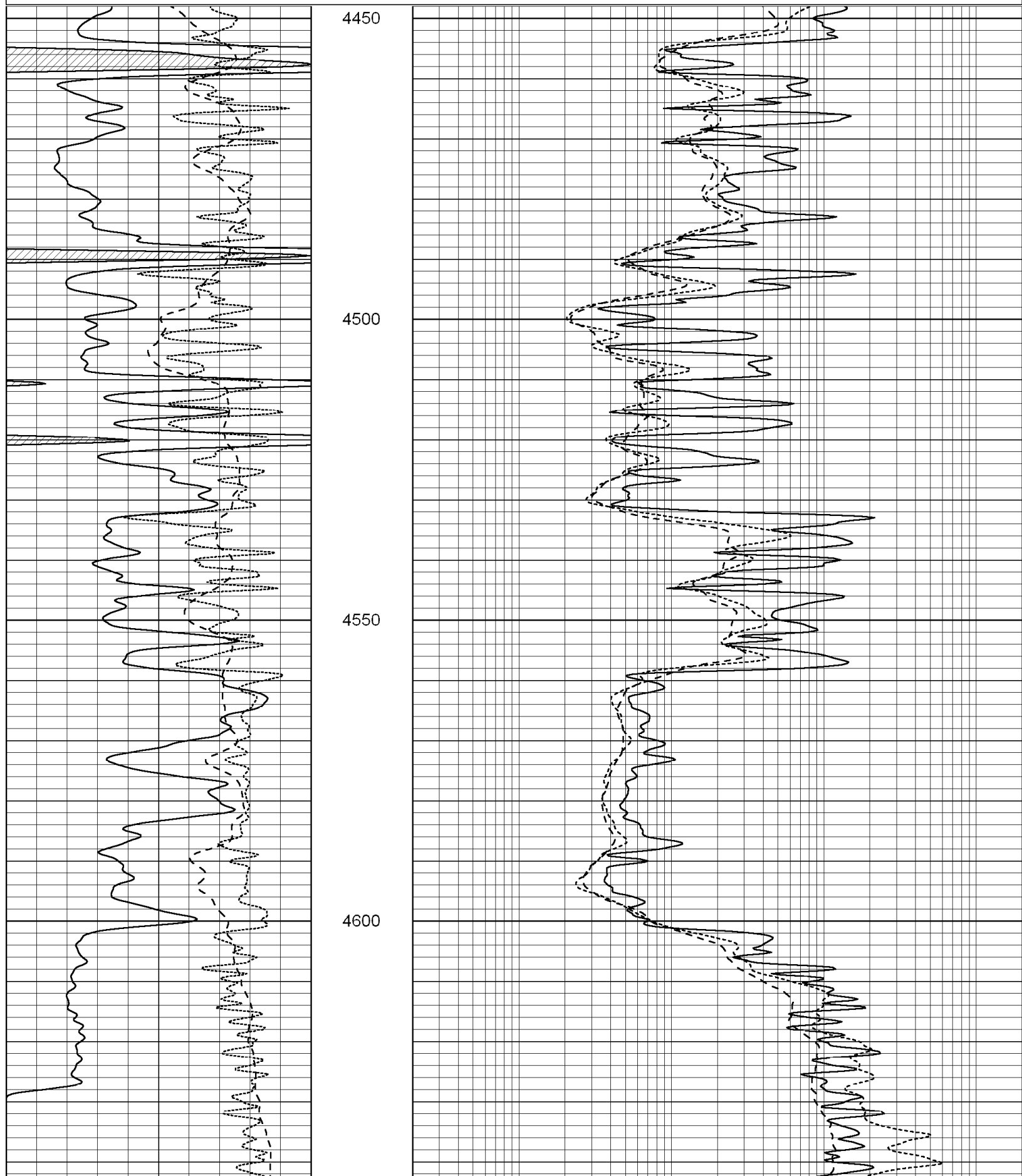
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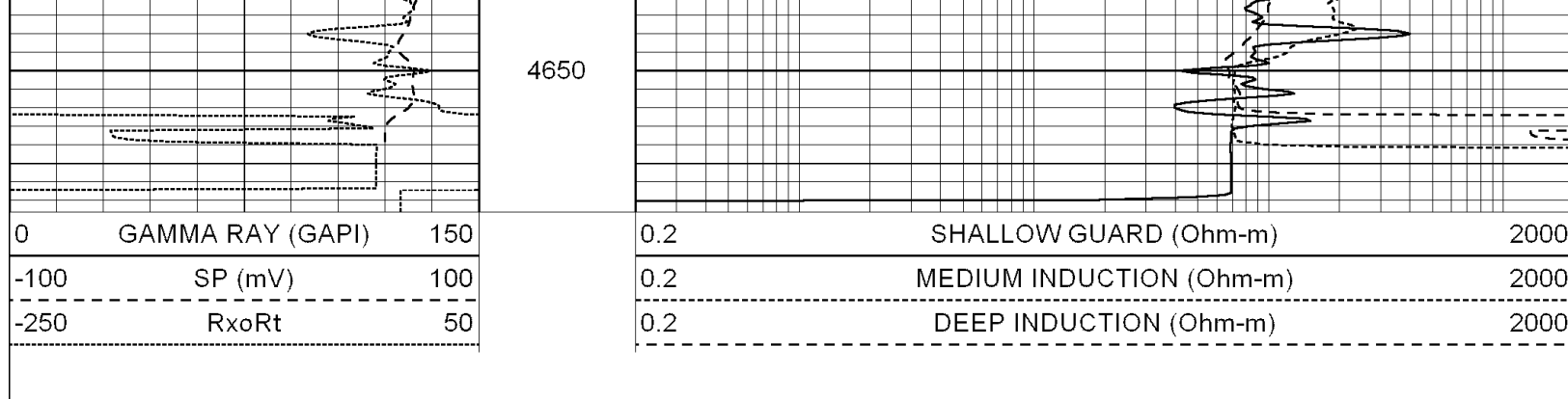
REPEAT SECTION

Database File: 004308ddn.db
 Dataset Pathname: pass2.1A
 Presentation Format: dil
 Dataset Creation: Sun Nov 15 21:45:36 2009 by Calc Open-Cased 051020

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





Calibration Report	
Database File:	004308ddn.db
Dataset Pathname:	pass3.1
Dataset Creation:	Sun Nov 15 21:05:26 2009 by Calc Open-Cased 051020

Dual Induction Calibration Report

Serial-Model:	DIL5-GEAR
Performed:	Sun Nov 15 20:08:52 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	-11.000
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
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Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Sun Nov 15 19:19:06 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
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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	

Long Spaul 1100 cps 1100 cps 110000

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