



DUAL INDUCTION LOG

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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 "NABORS" HAYS, KANSAS (785) 628-6395 DIRECTIONS CROFT, KS. - JUST NORTH OF GRAIN ELAVATORS 2 WEST SOUTH INTO

0 Gamma Ray (GAPI) 150

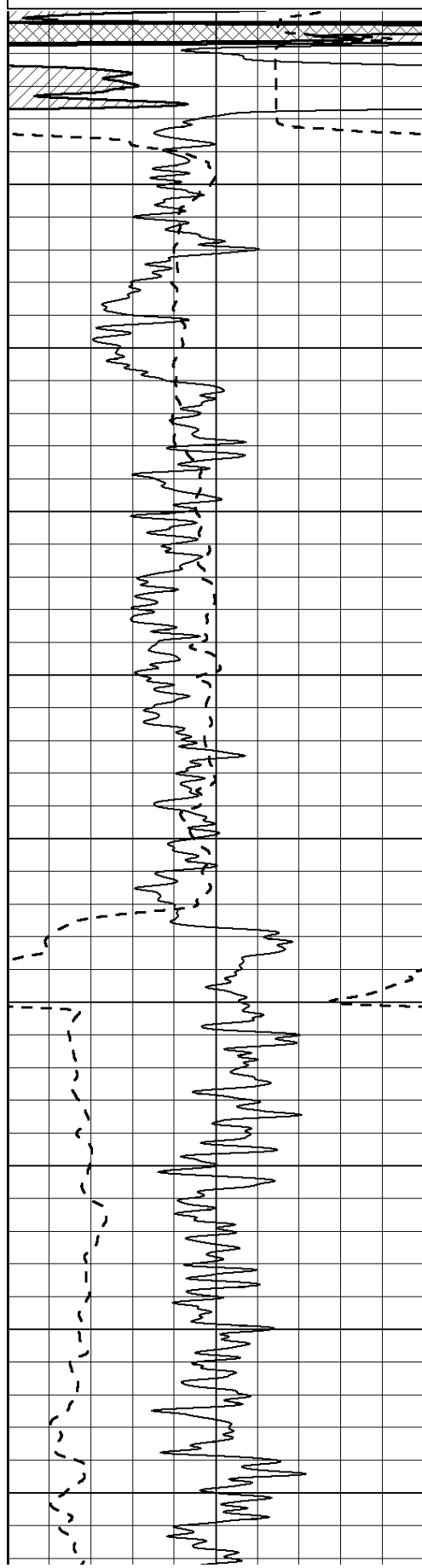
0 RLL3 (Ohm-m) 50

0 Deep Induction (Ohm-m) 50

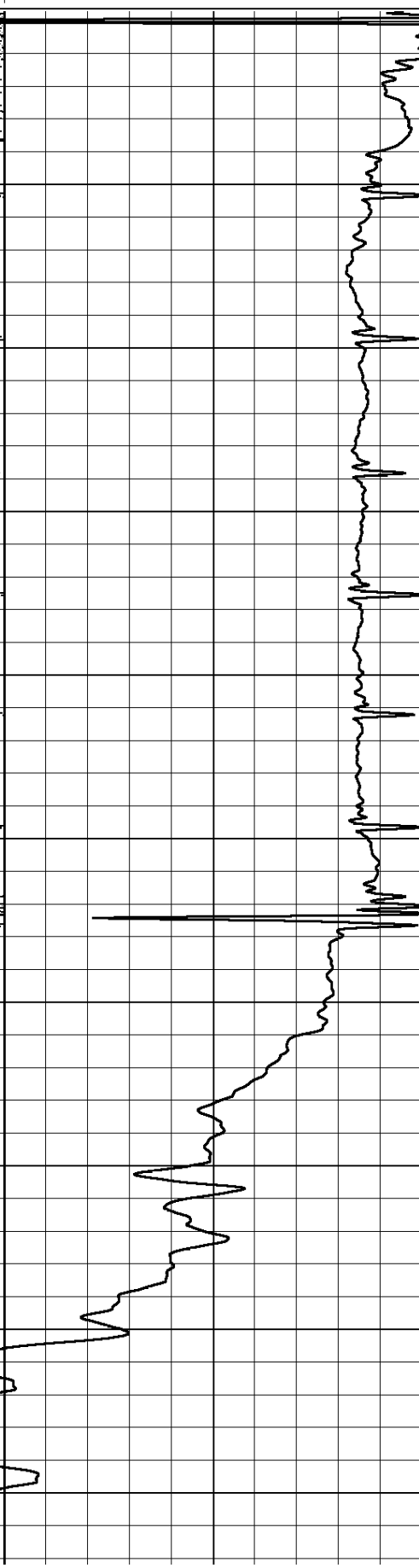
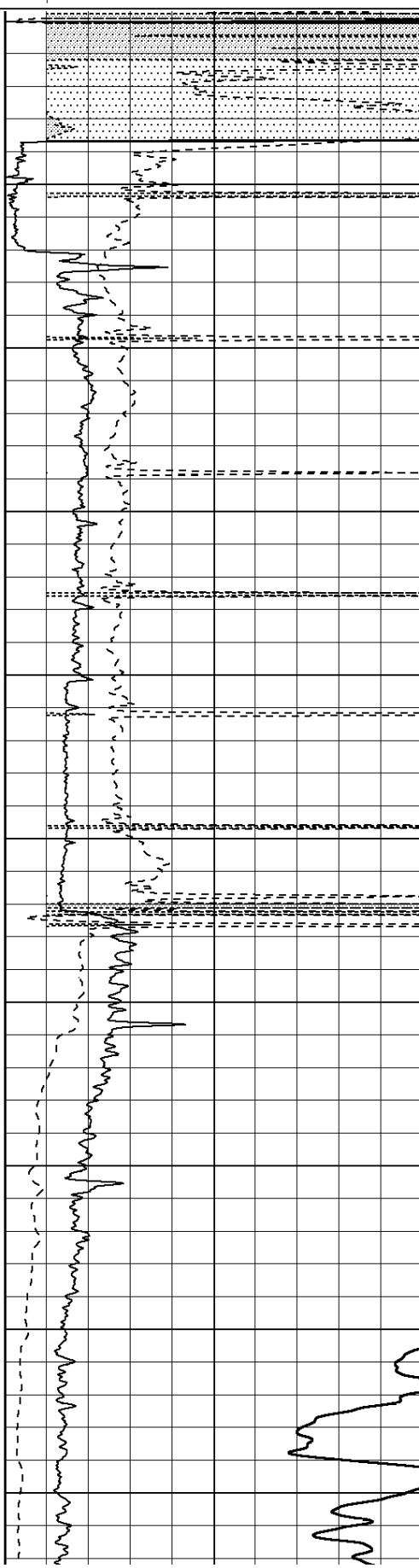
1000 CILD (mmho/m) 0

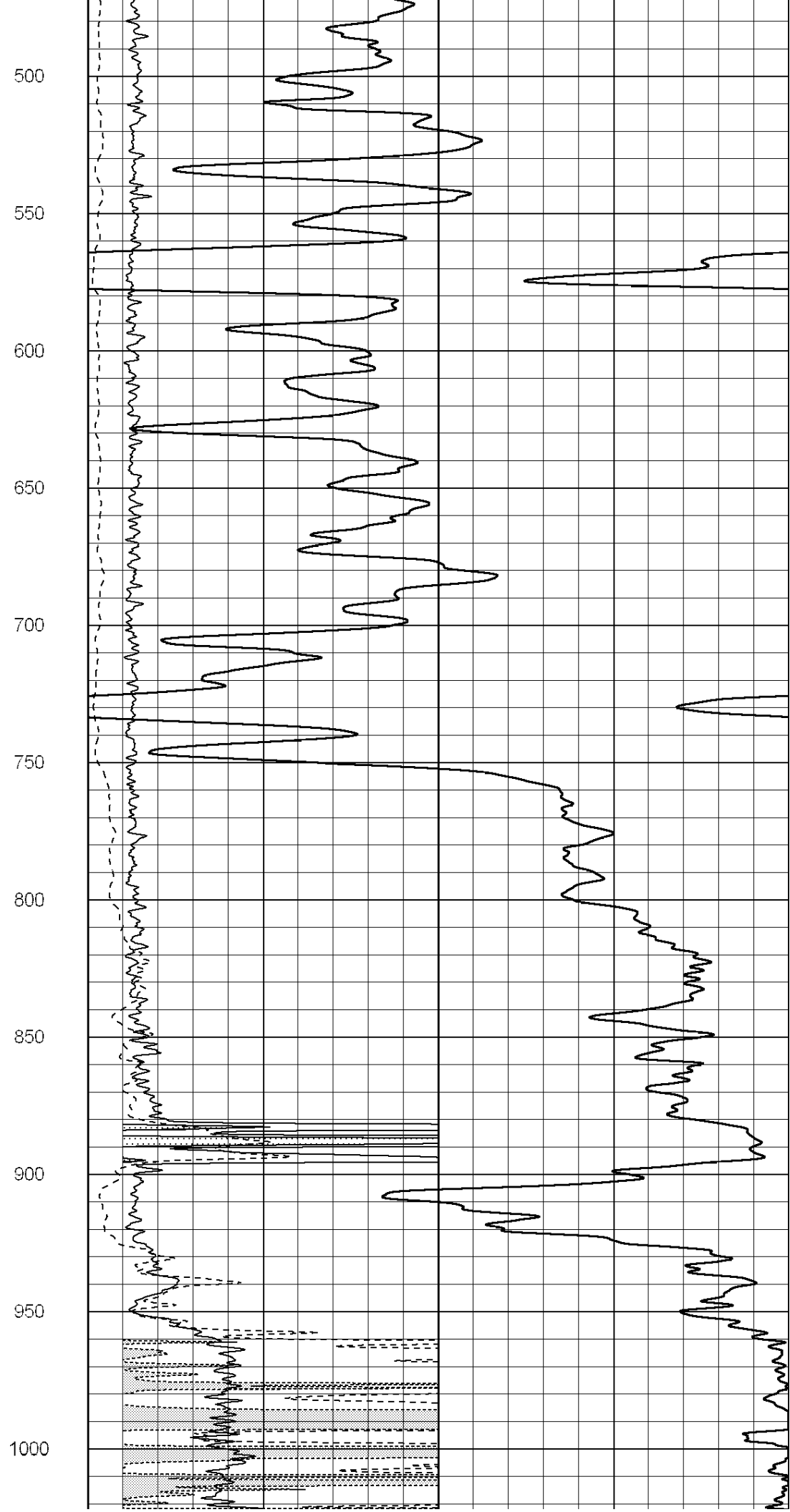
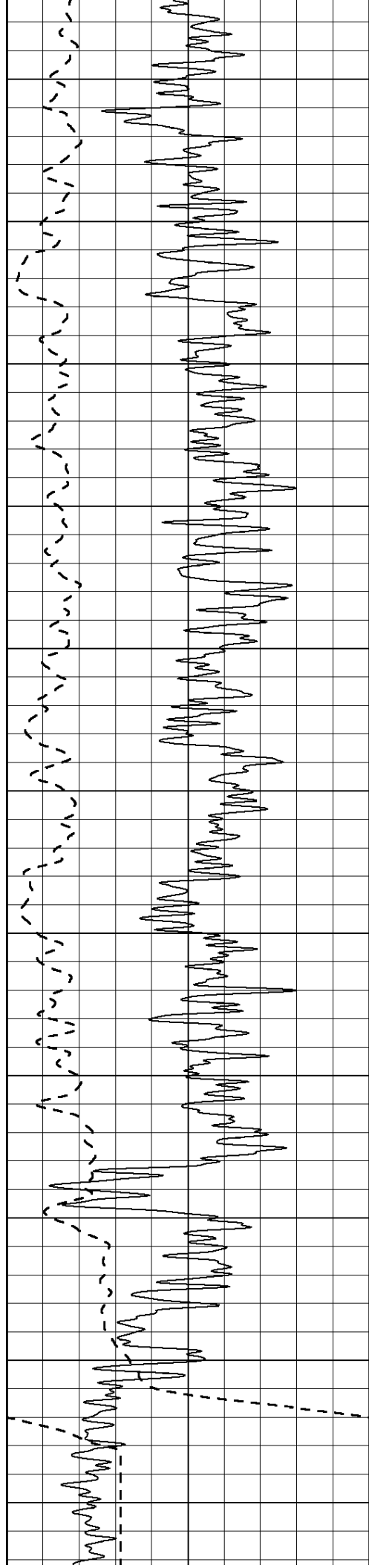
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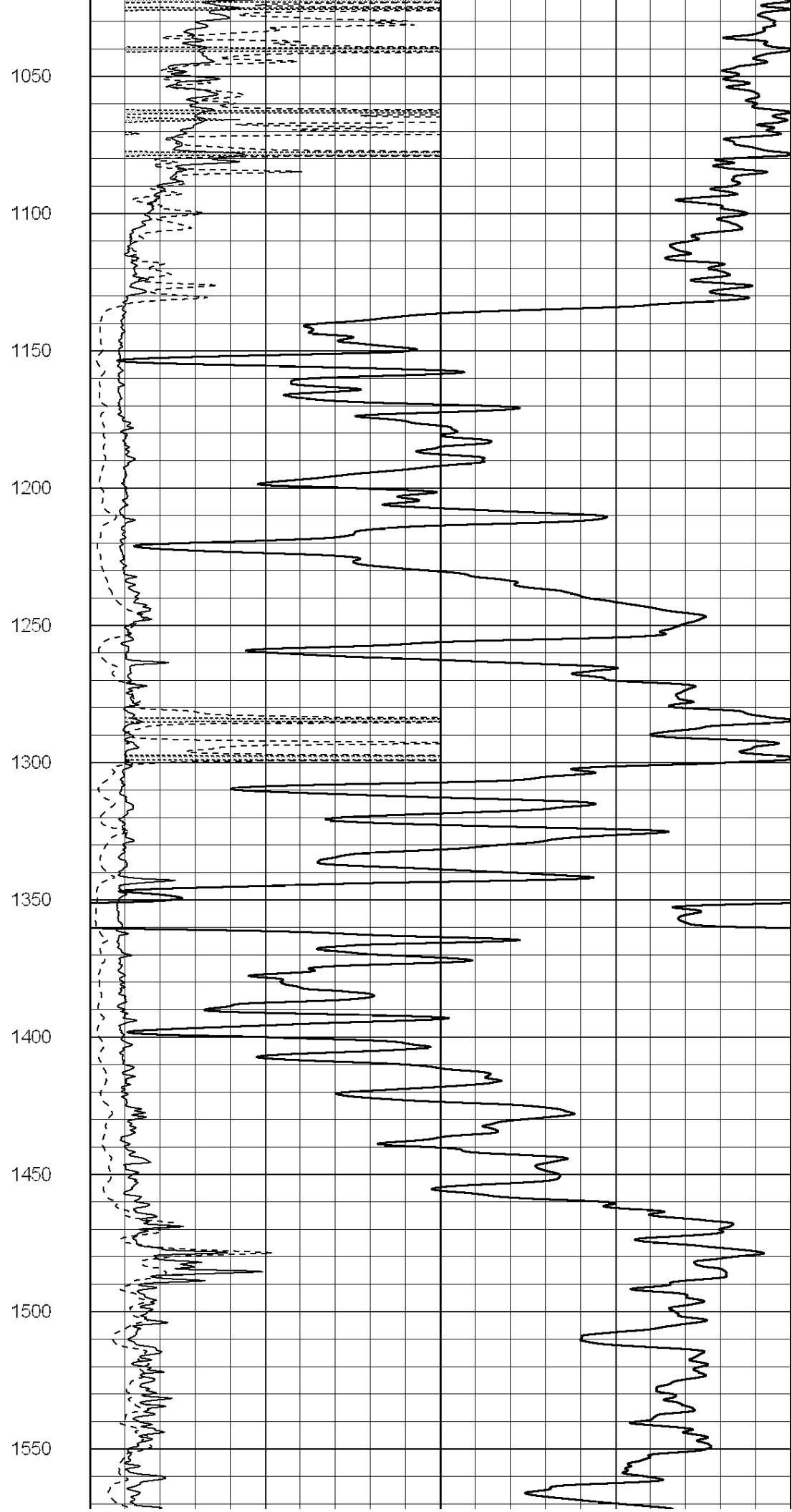
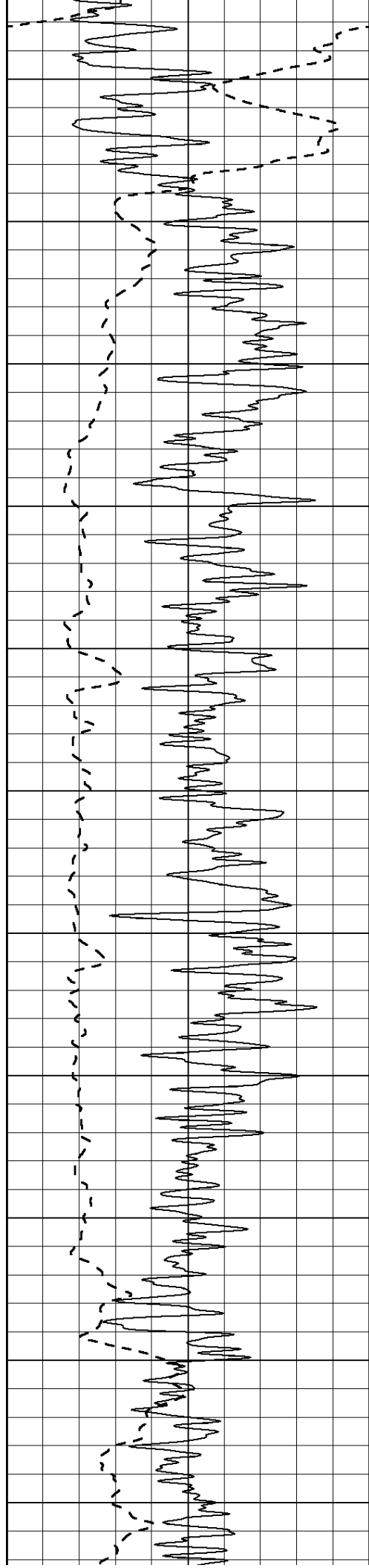
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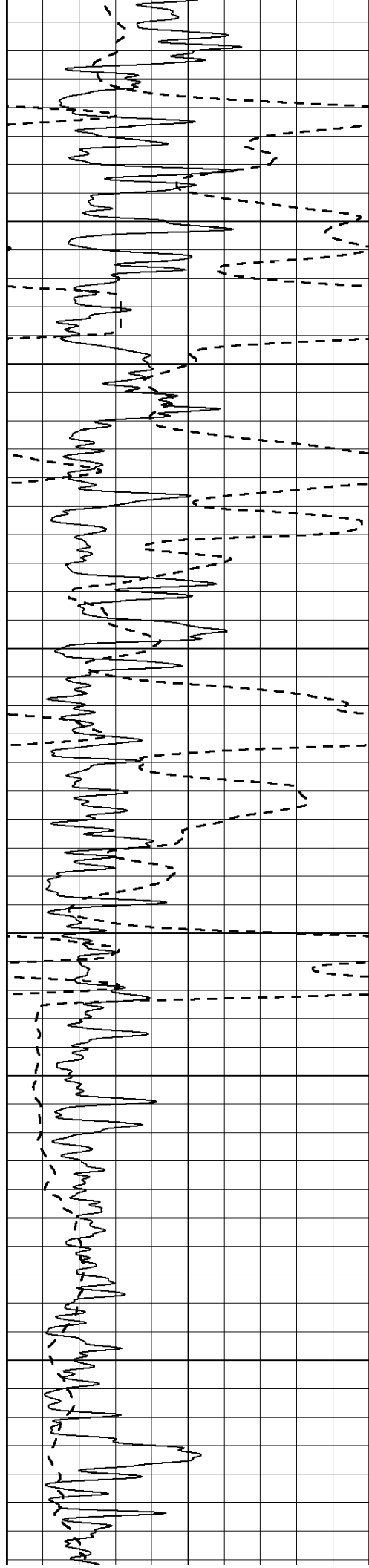


0
50
100
150
200
250
300
350
400
450









1600

1650

1700

1750

1800

1850

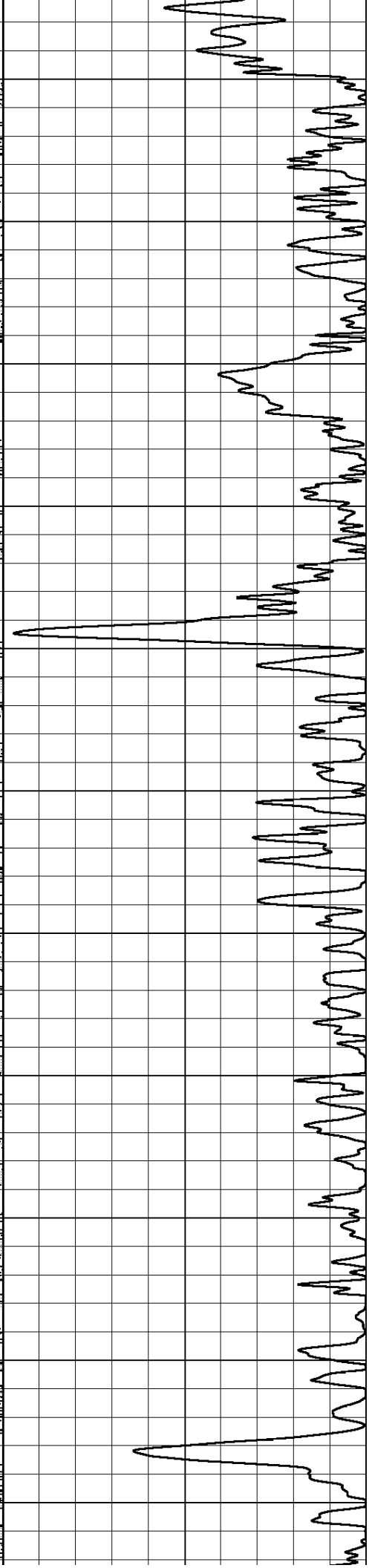
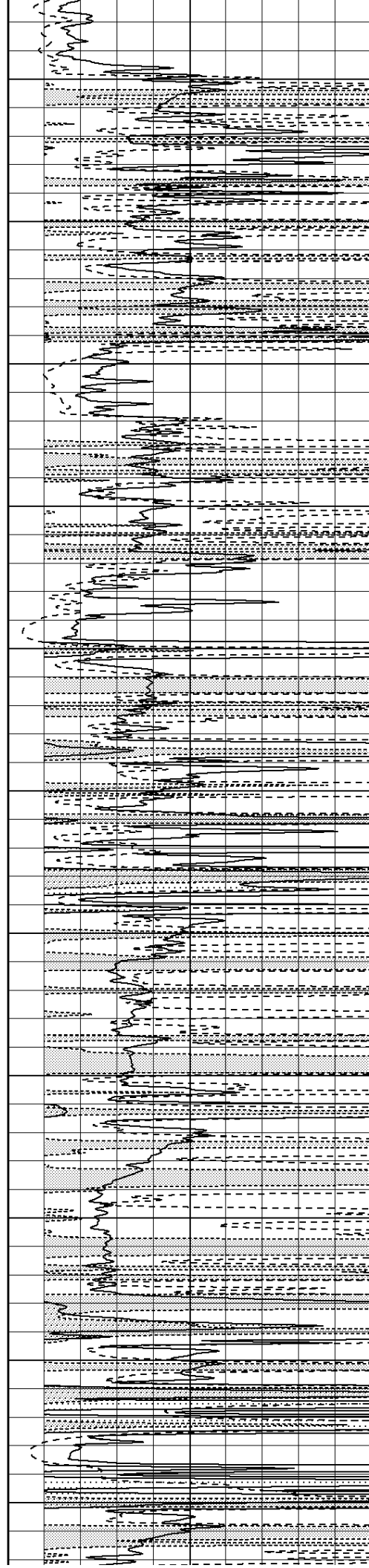
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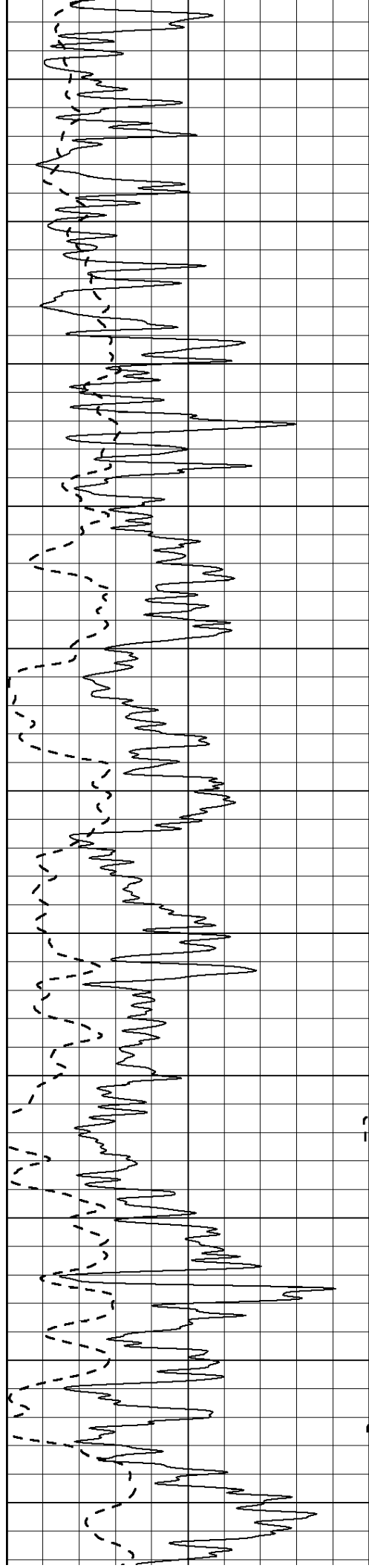
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2000

2050

2100





2150

2200

2250

2300

2350

2400

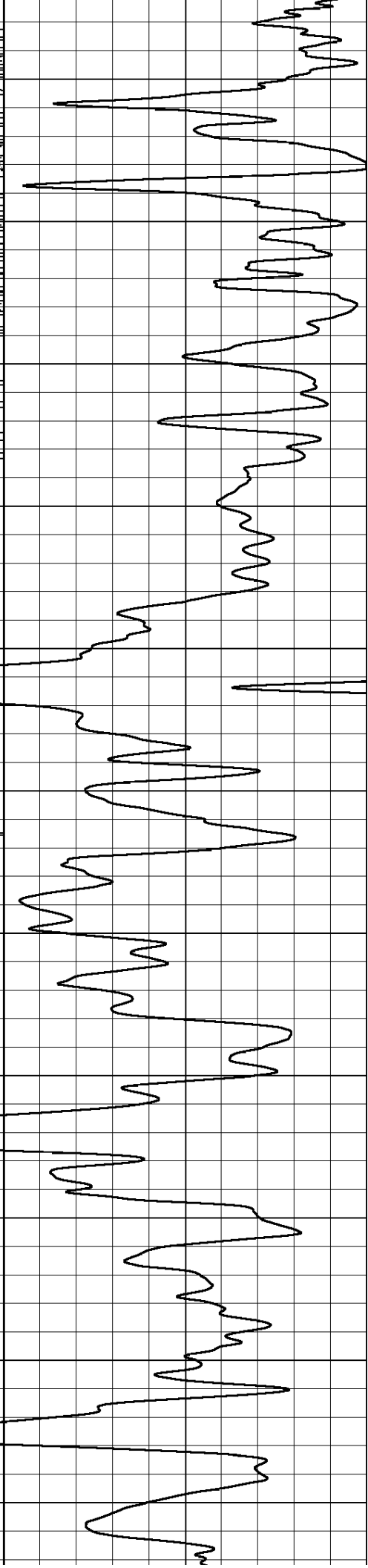
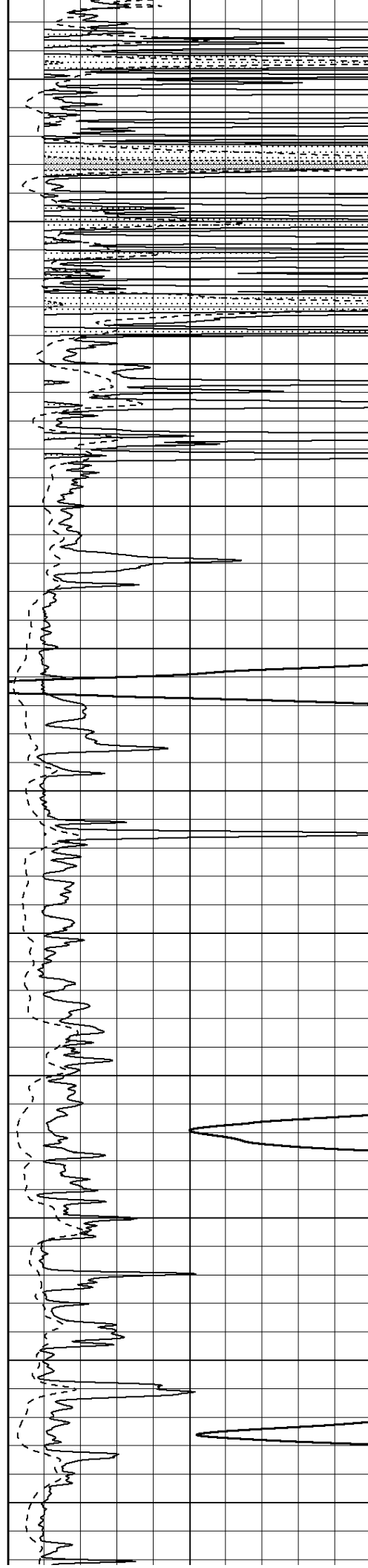
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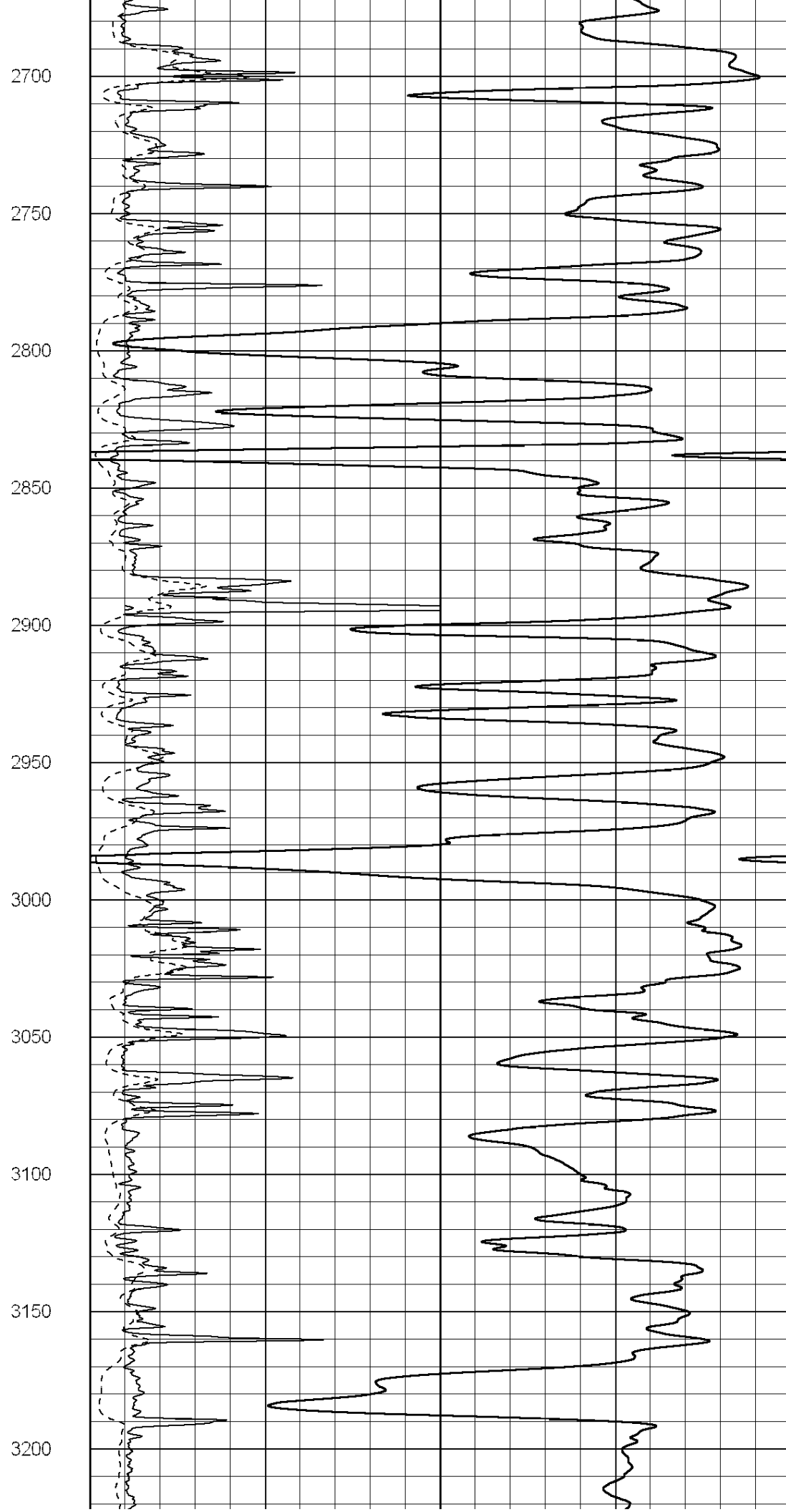
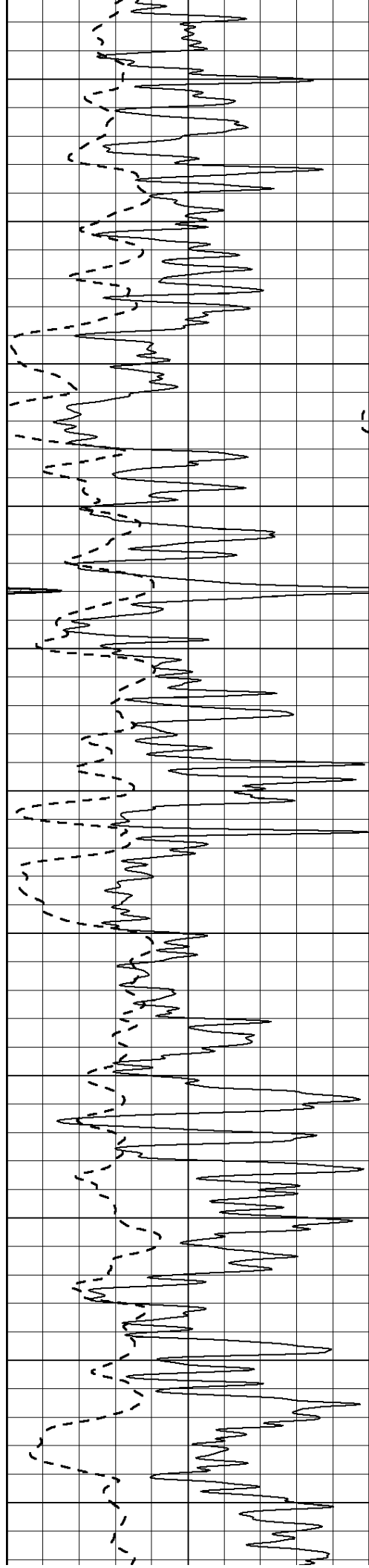
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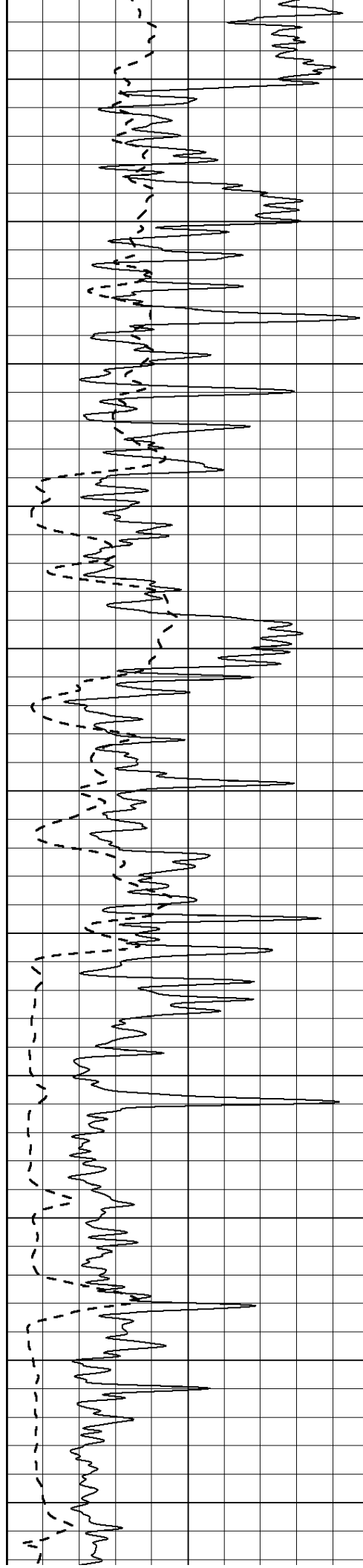
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2650







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3300

3350

3400

3450

3500

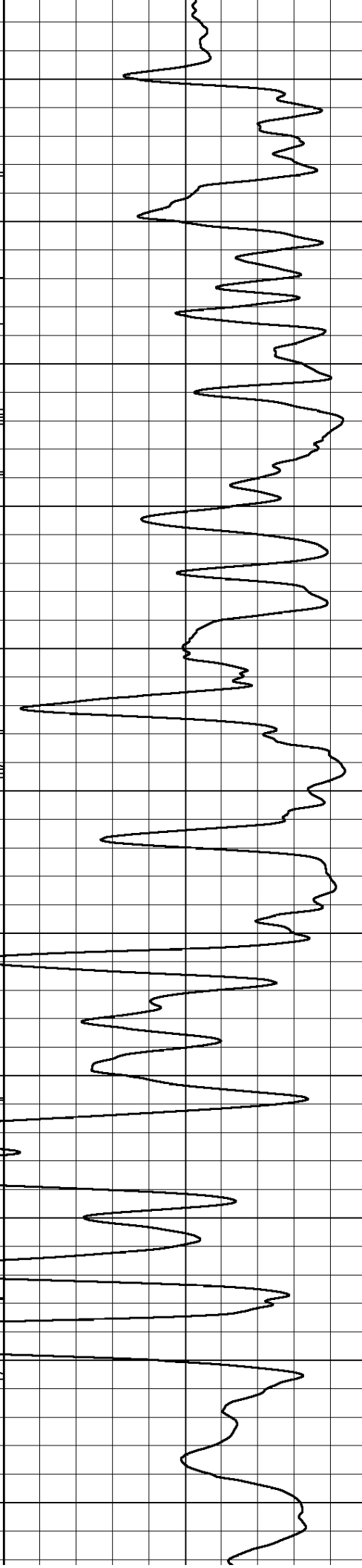
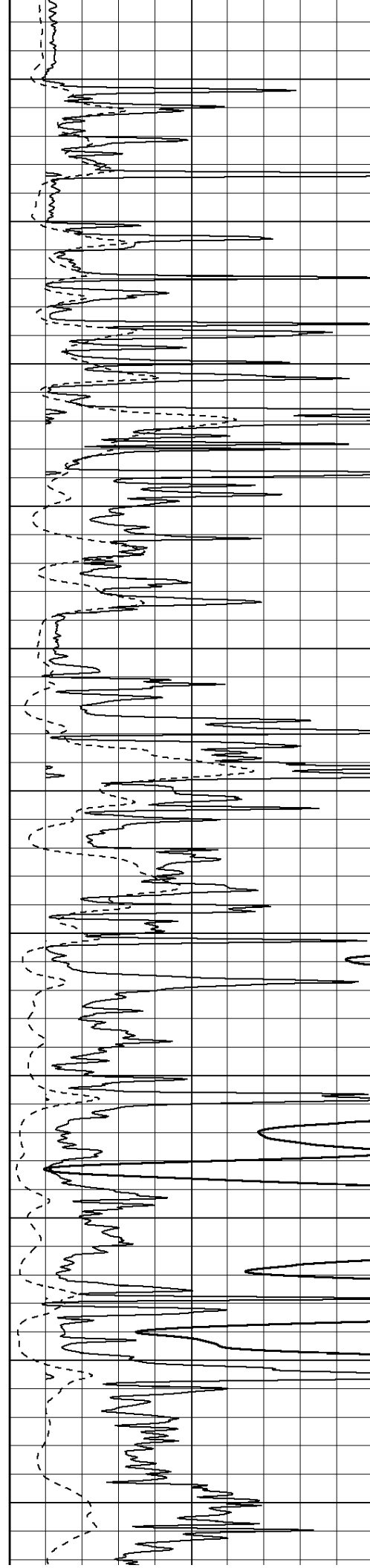
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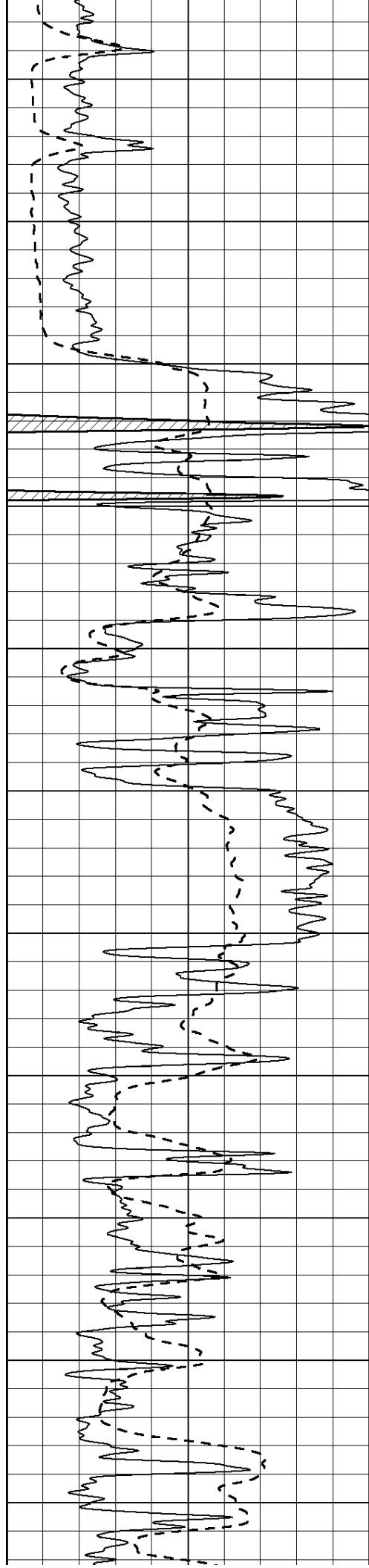
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3700

3750





3800

3850

3900

3950

4000

4050

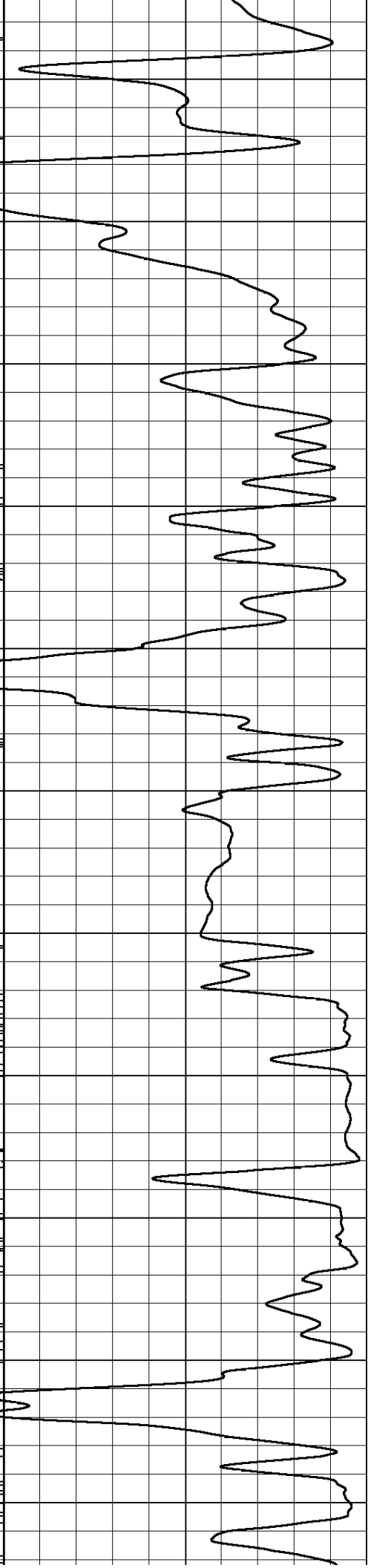
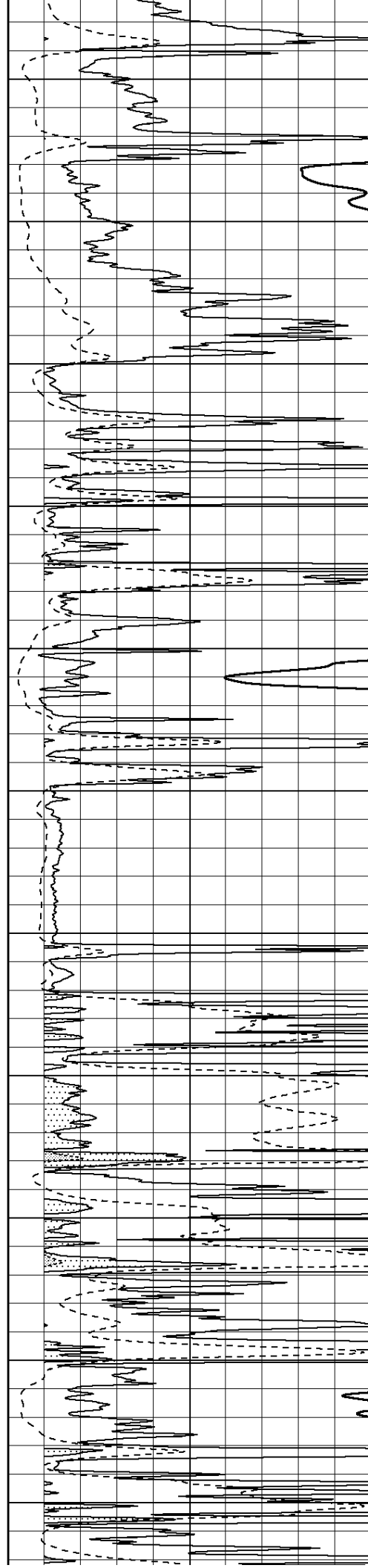
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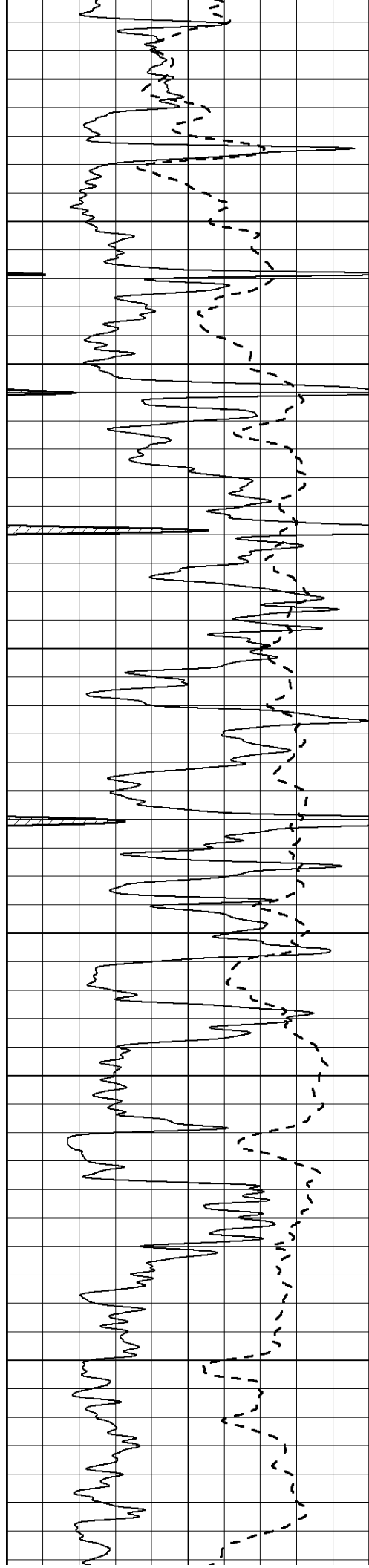
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4200

4250

4300





4350

4400

4450

4500

4550

4600

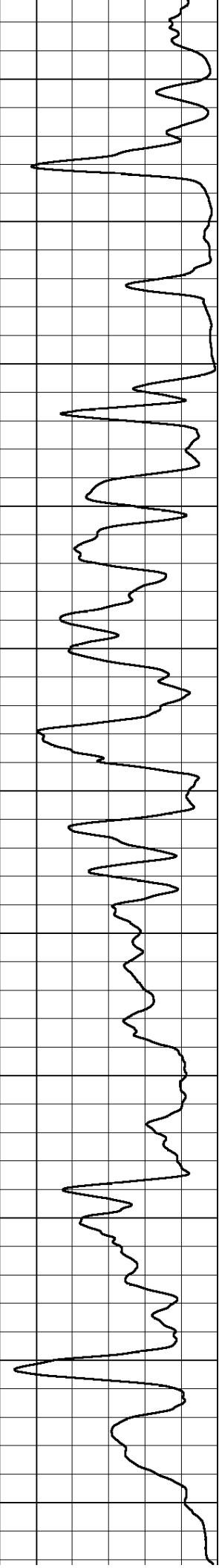
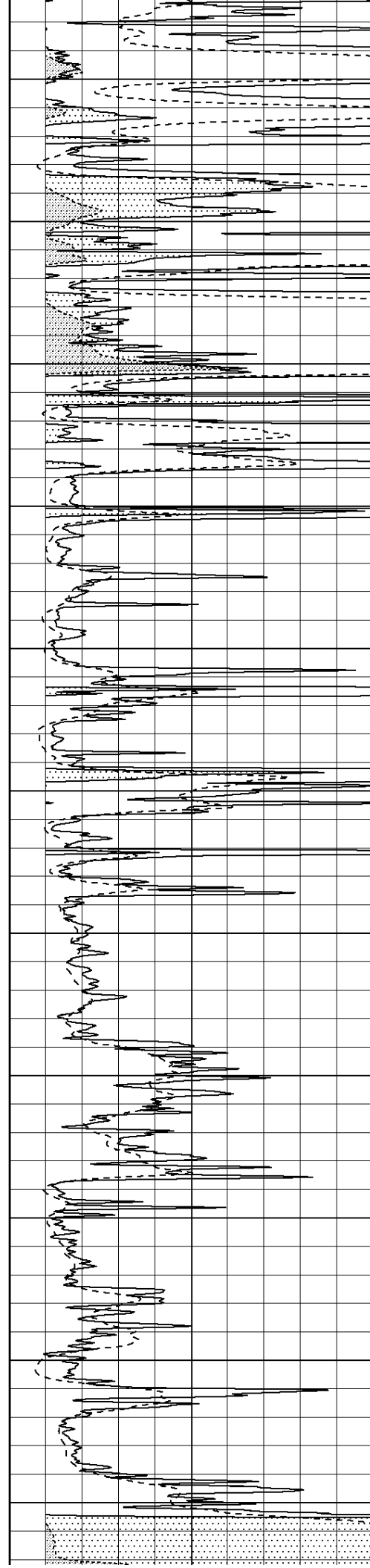
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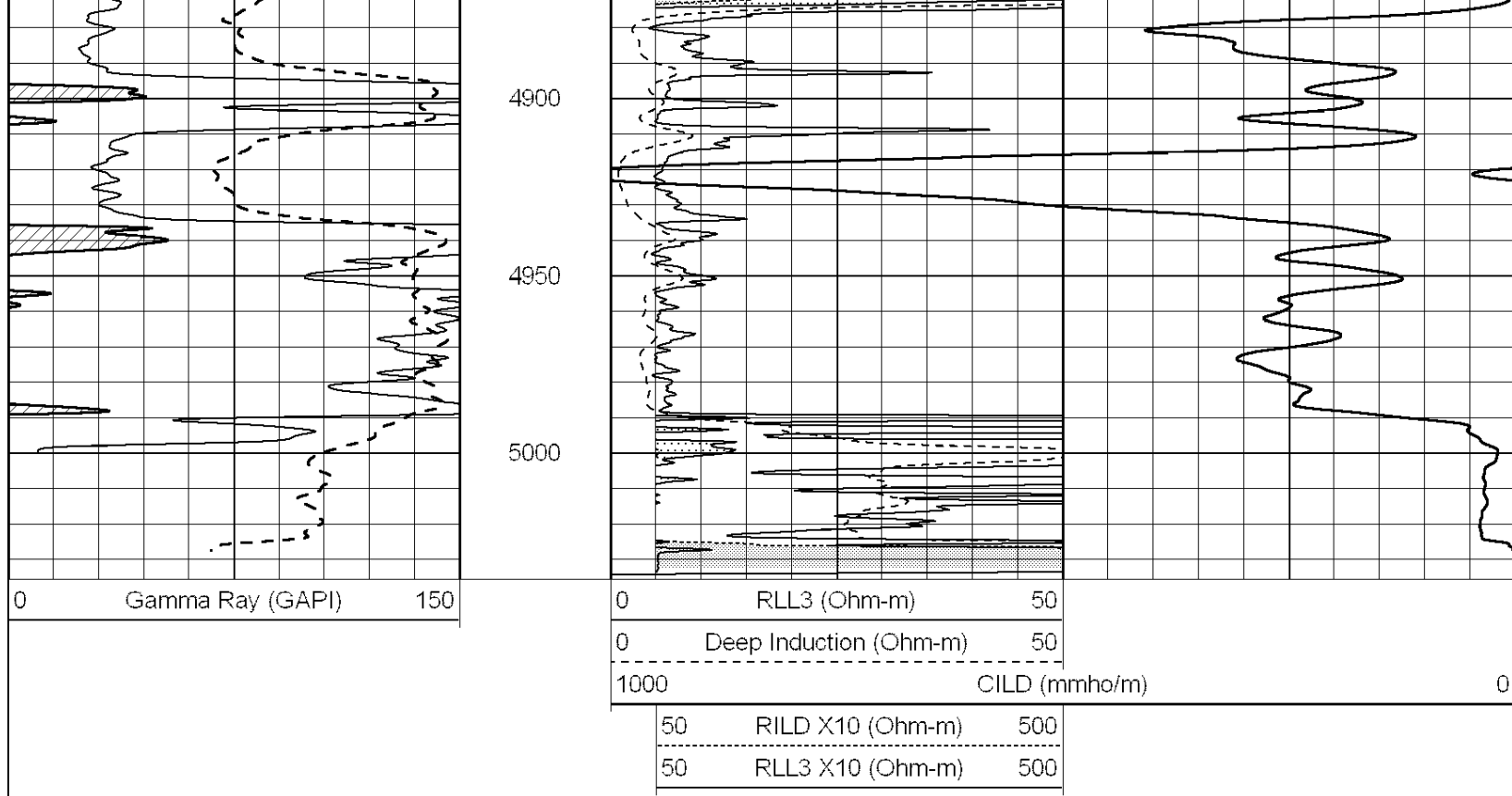
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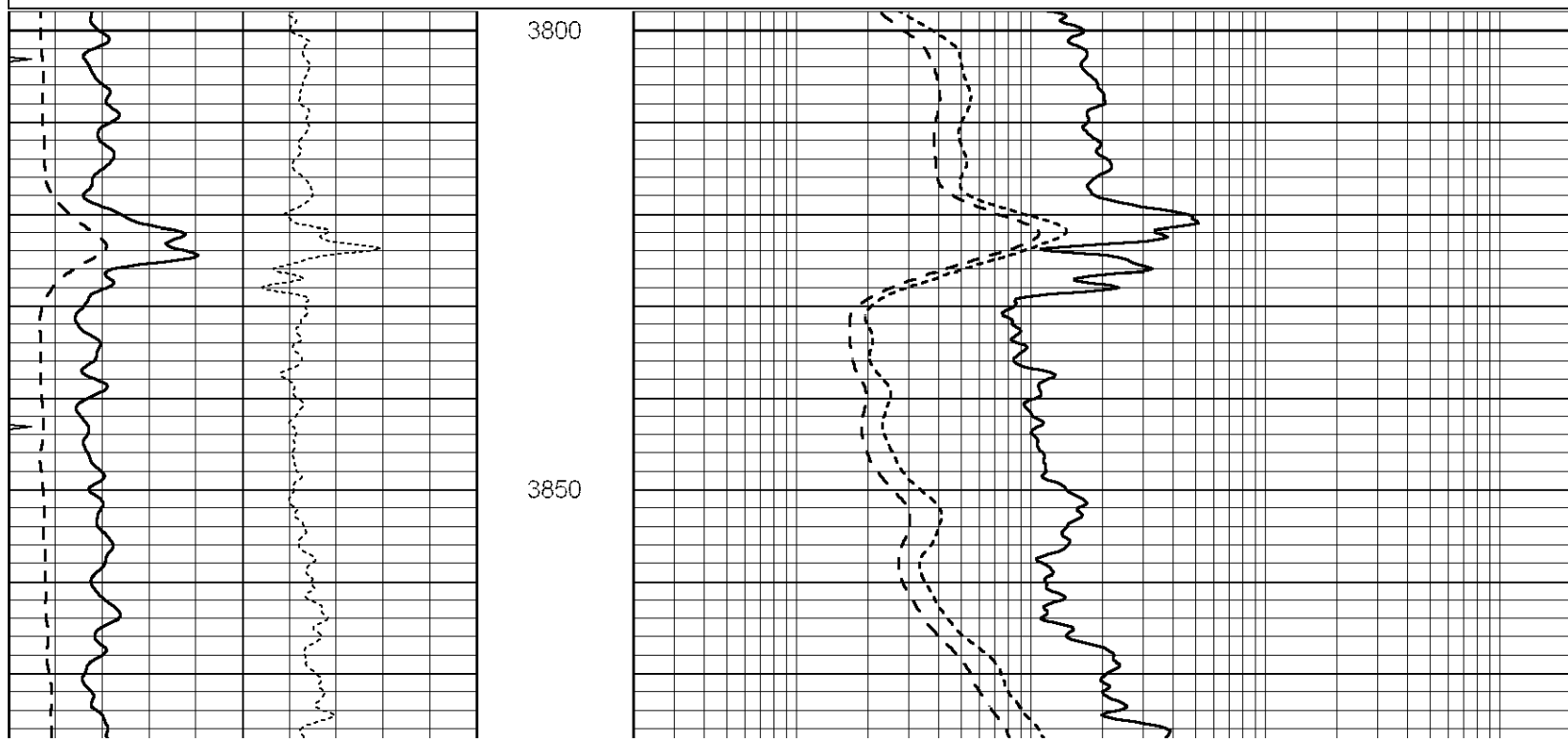
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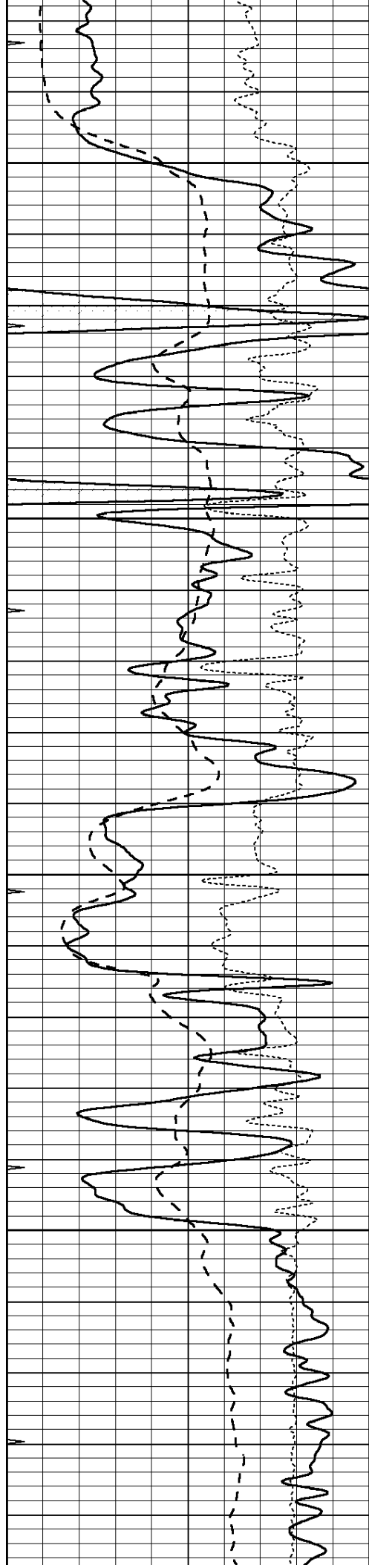




Database File: 012038pe.db
Dataset Pathname: pass4.5
Presentation Format: _dil
Dataset Creation: Sat Nov 16 07:25:54 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



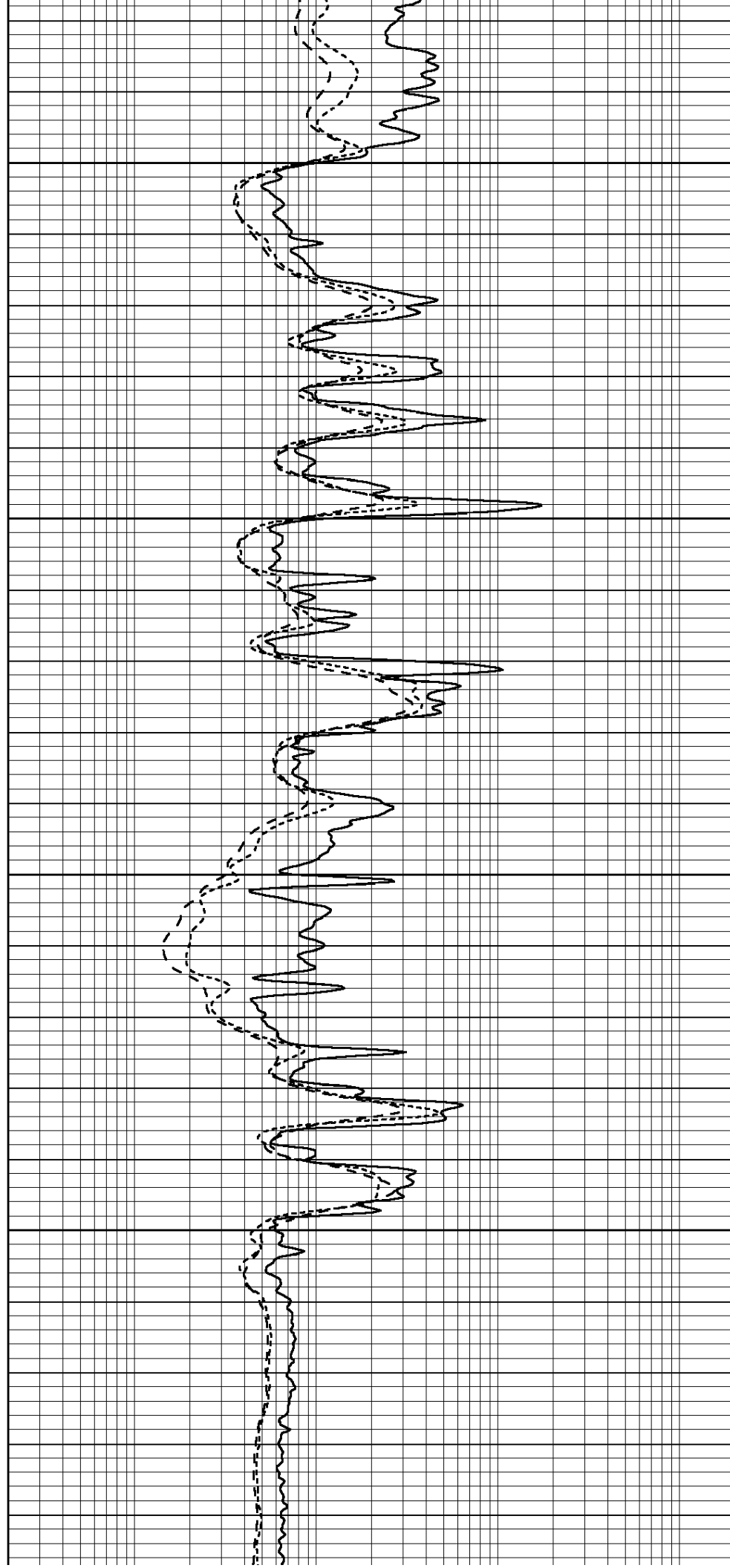


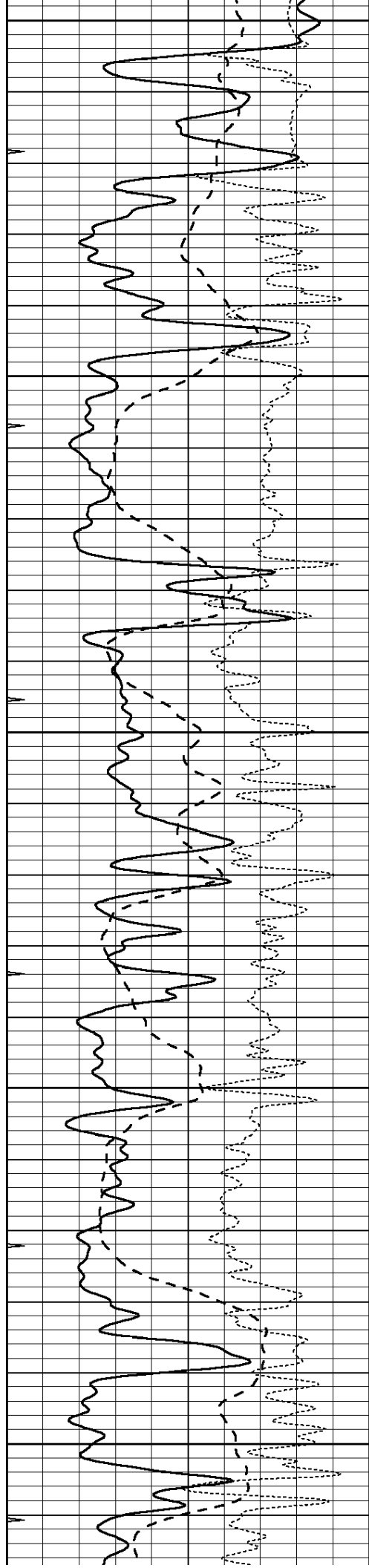
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3950

4000

4050





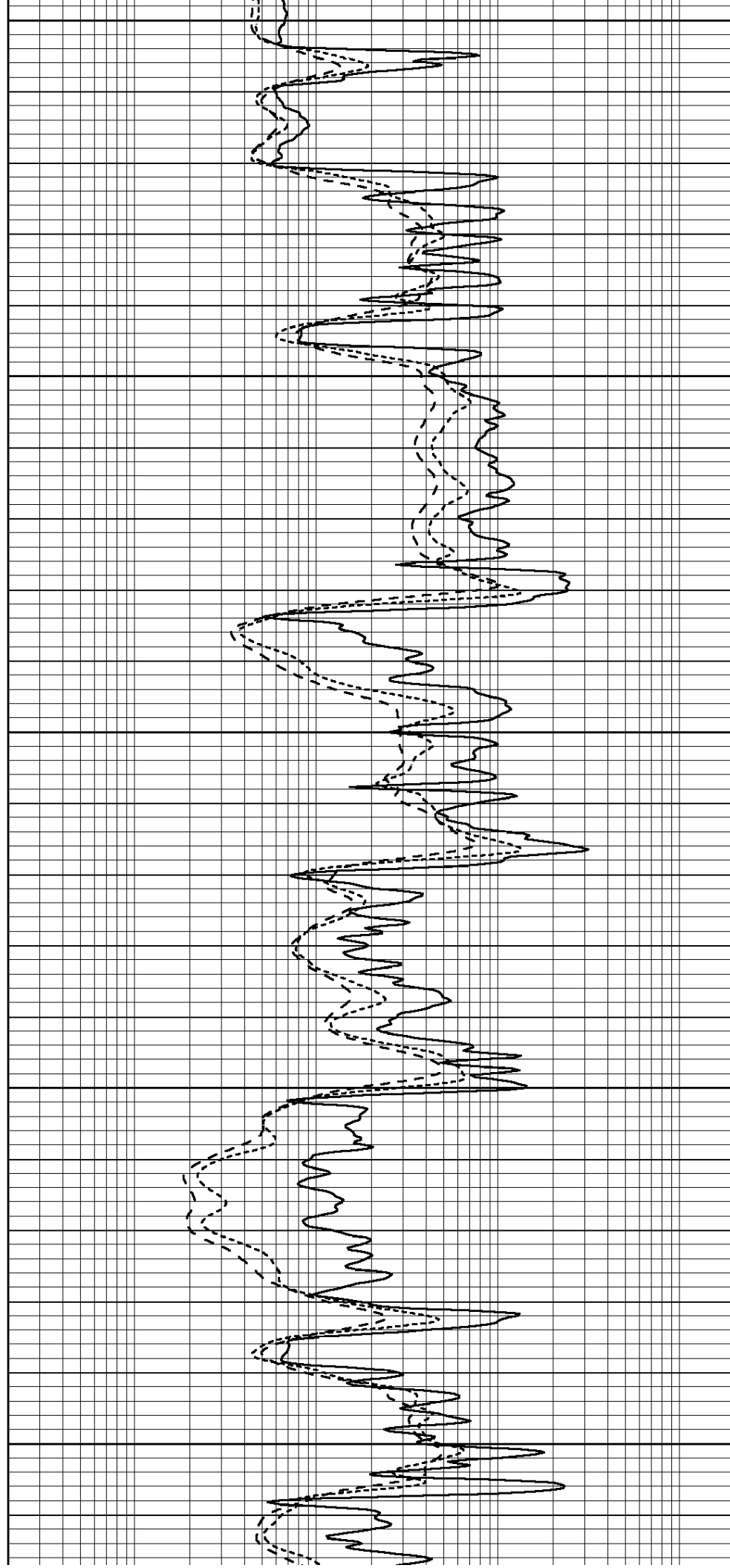
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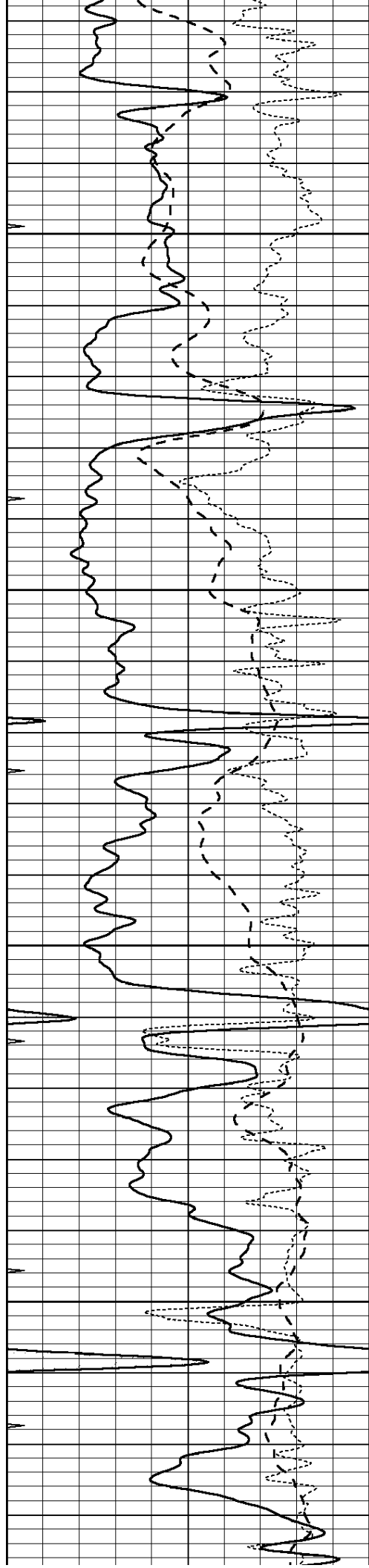
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4200

4250

4300



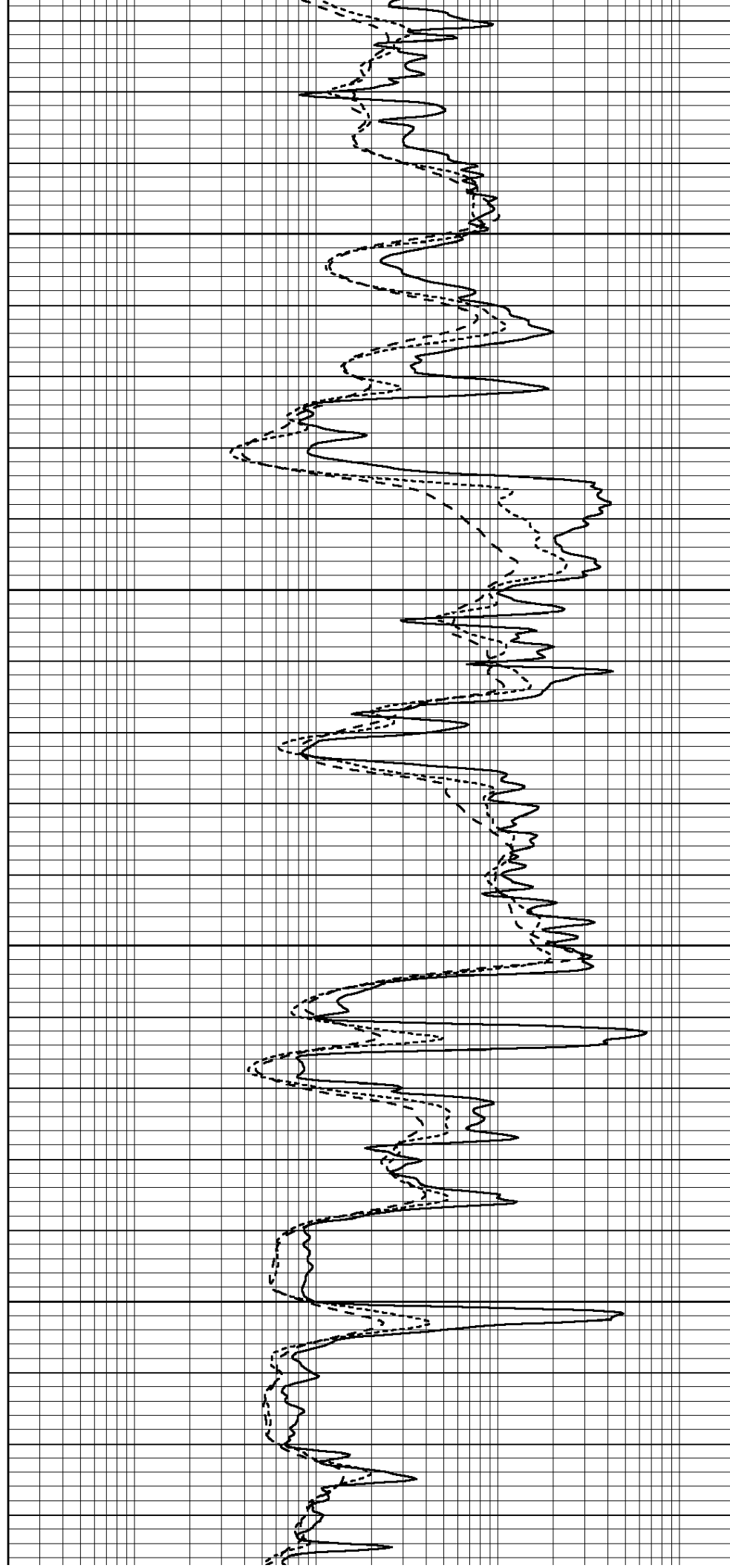


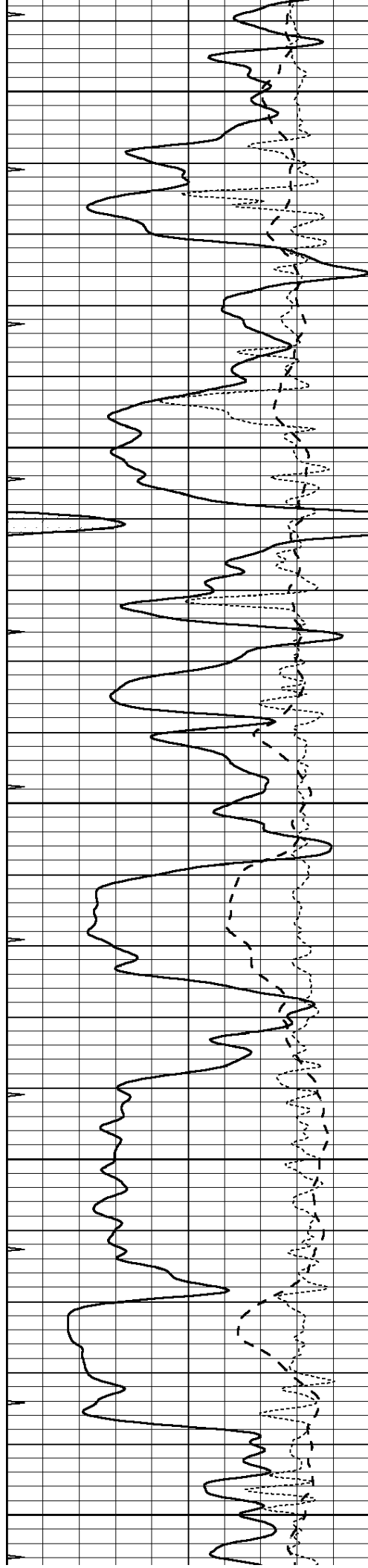
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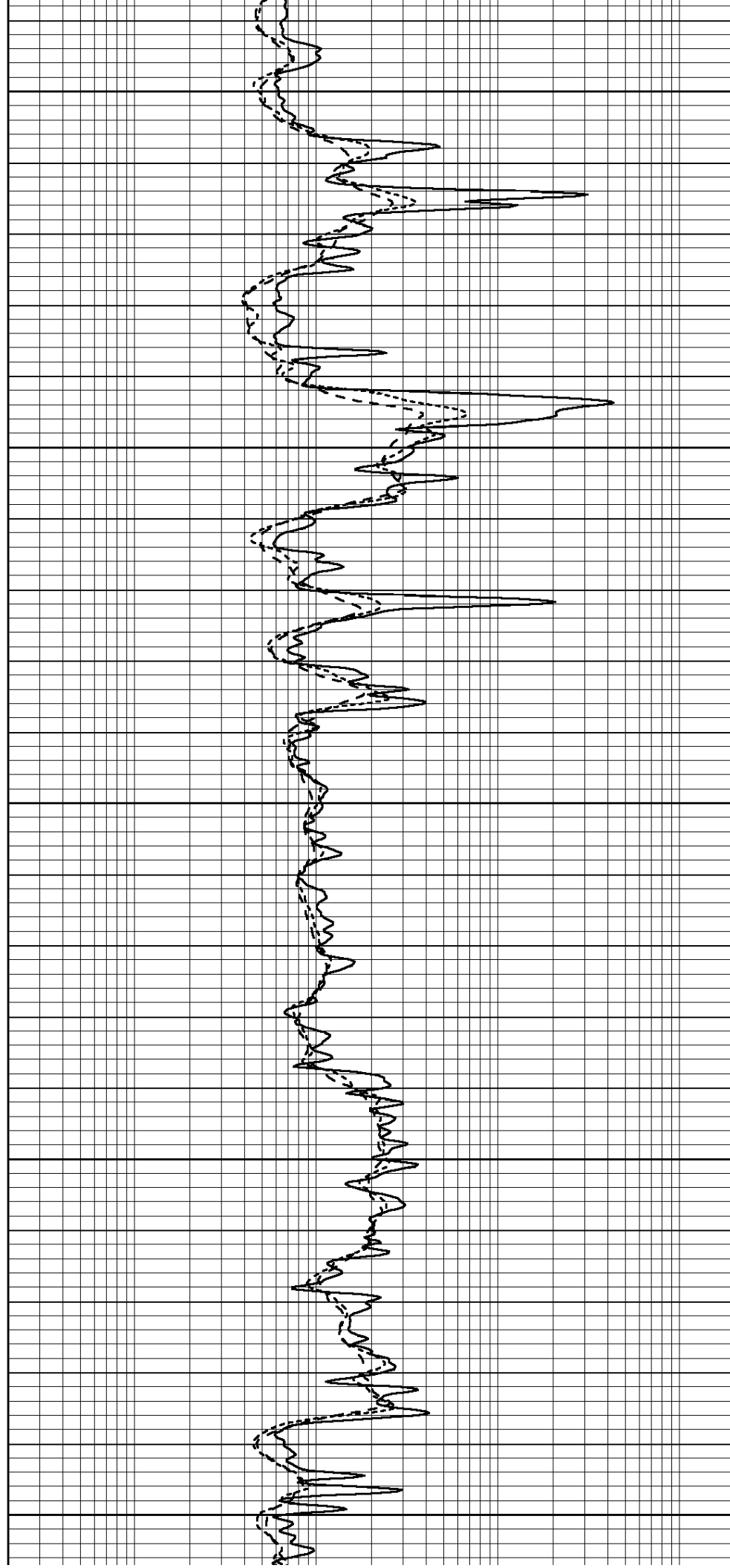
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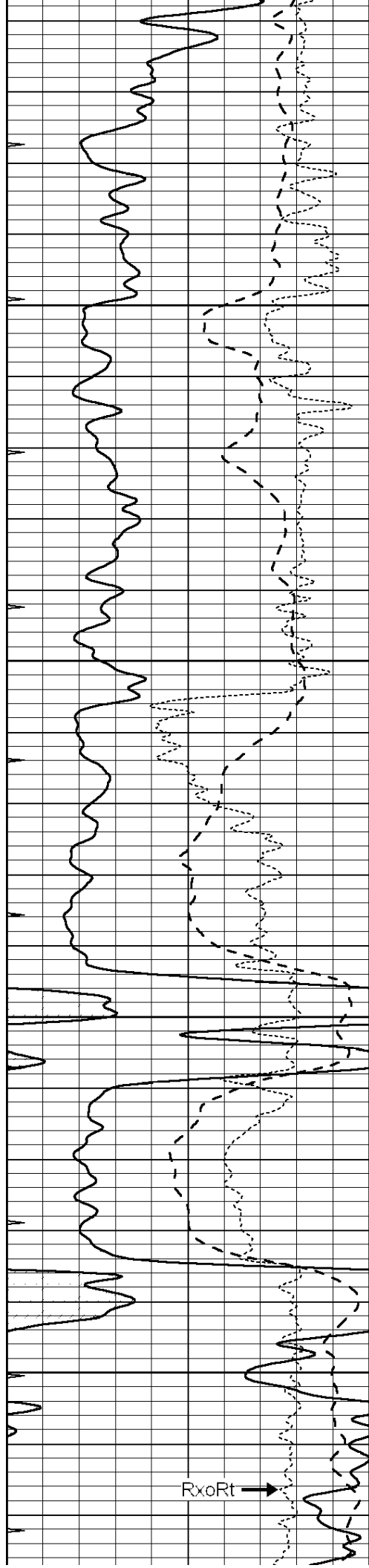
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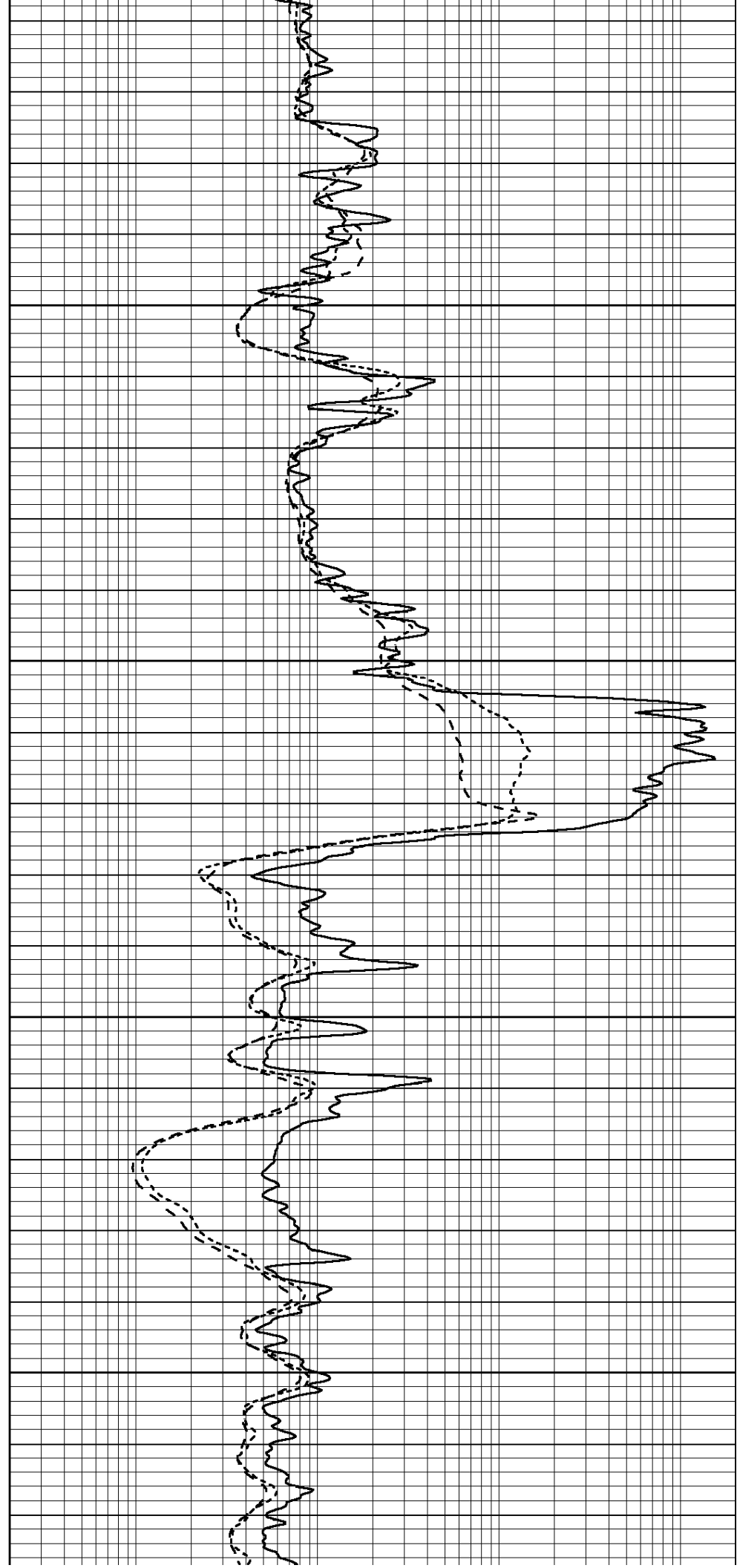
RxoRt →

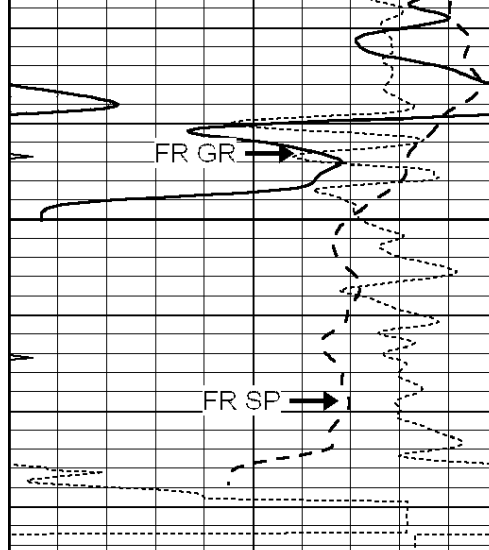
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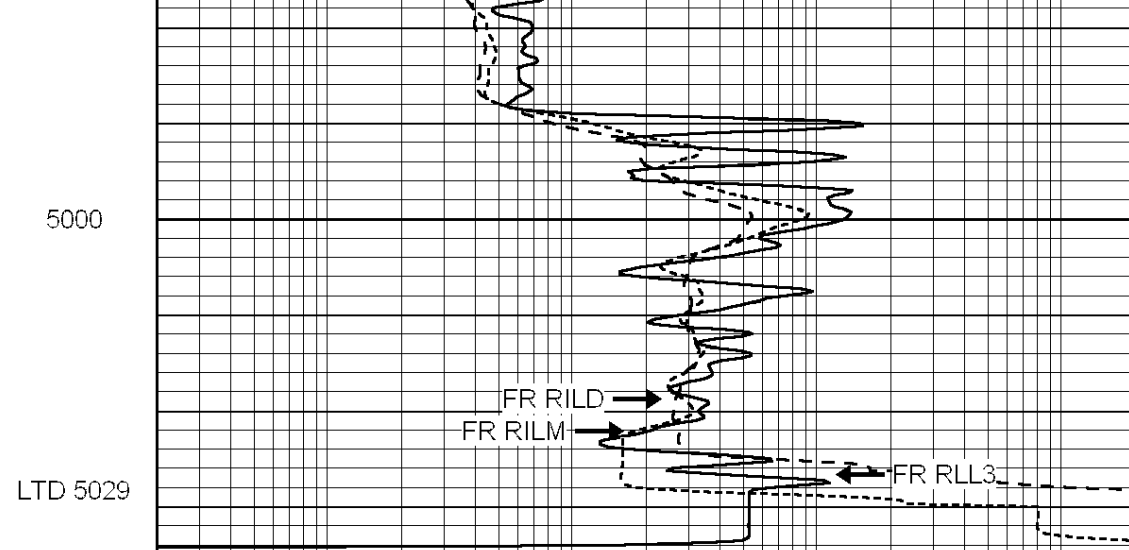
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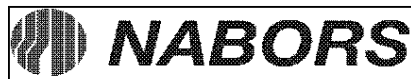




0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



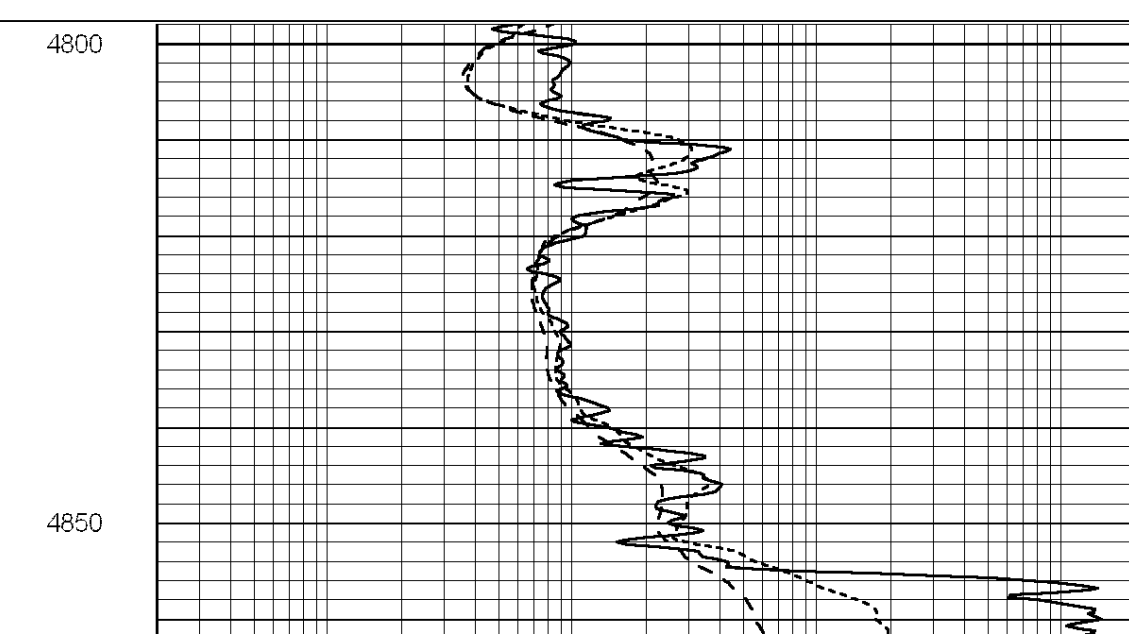
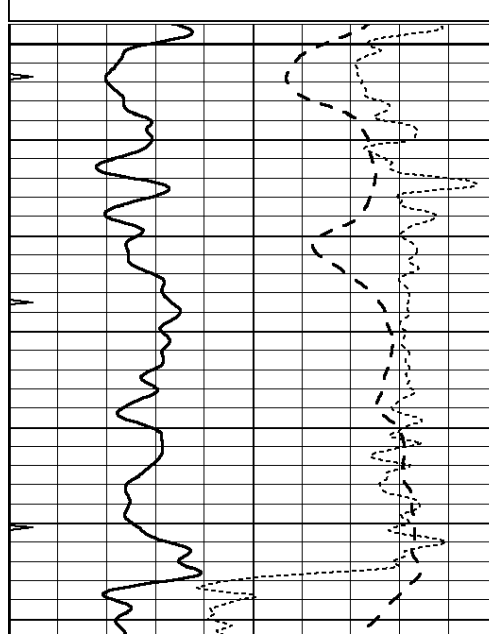
**COMPLETION
& PRODUCTION
SERVICES CO.**

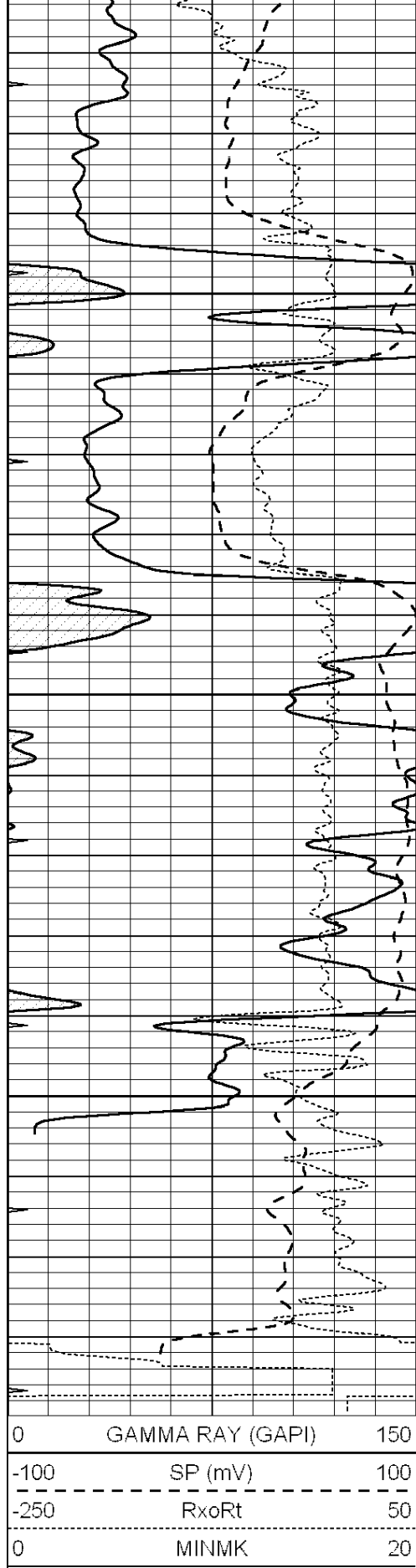
REPEAT SECTION

Database File: 012038pe.db
 Dataset Pathname: pass2.4
 Presentation Format: _dil
 Dataset Creation: Sat Nov 16 07:45:27 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

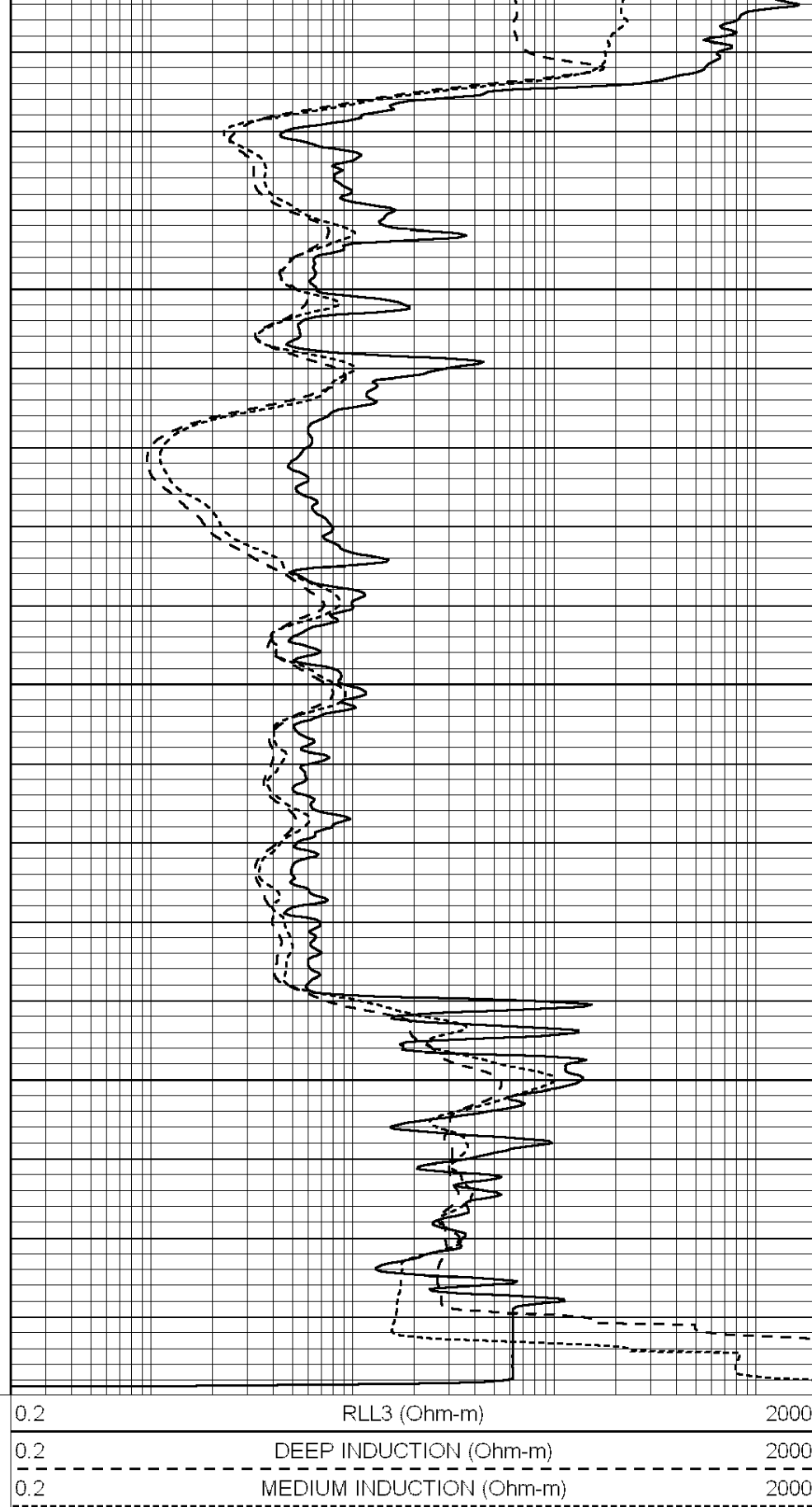




4900

4950

5000



Calibration Report

Database File: 012038pe.db

Dataset Pathname: pass4.5

Dataset Creation: Sat Nov 16 07:25:54 2013 by Calc Open-Case 090629

Dual Induction Calibration Report								
Serial-Model: Performed:			DIL3-GEAR Fri Nov 08 14:48:45 2013					
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	480.000	4.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	540.000	3.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000

Litho Density Calibration Report					
Serial: 002		Model: PRB			
Performed Mon Sep 30 15:01:00 2013					
Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	876.5	8010.5	2393.7	8609.0	cps
Window 2	806.8	6214.4	1941.6	6517.9	cps
Window 3	654.0	3305.8	1186.3	3410.3	cps
Window 4	194.3	192.1	189.1	195.2	cps
Long Space	0.0	5407.6	1134.8	5711.1	cps
Short Space	1.1	1161.8	742.8	1186.8	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.0	Rib Slope	: 0.966	Density/Spine Ratio	: 0.546
Spine Angle	: 74.0	Spine Slope	: 3.491	Spine Intercept	: -16.0

Caliper		
Low Ref	Readings	Reference
High Ref	1.8	8.4
	6.1	14.0
	Gain: 1.3	Offset: 2.9

Compensated Neutron Calibration Report						
		Serial Number:		NEU_4I		
		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:	Sat Nov 09 00:52:29 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9000	GAPI/cps

