



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	RED OAK ENERGY, INC.	Company	RED OAK ENERGY, INC.
Well	S/PW UNIT #1-35	Well	S/PW UNIT #1-35
Field	LADDER CREEK	Field	LADDER CREEK
County	WALLACE	County	WALLACE
State	KANSAS	State	KANSAS
Location:	API # : 15-199-20408-00-00	Other Services	CNL/CDL
Permanent Datum	418' FSL & 95' FWL	Elevation	
Log Measured From	NW - SW - SW - SW	K.B. 3790.5	
Drilling Measured From	SEC 35 TWP 14S RGE 41W	D.F. 3788.5	
	GROUND LEVEL	G.L. 3774	
	Elevation 3774		
	KELLY BUSHING 16.5' A.G.L.		
	KELLY BUSHING		
Date	4-28-14		
Run Number	ONE		
Depth Driller	5200		
Depth Logger	5197		
Bottom Logged Interval	5195		
Top Log Interval	00		
Casing Driller	8 5/8 @ 388'		
Casing Logger	388'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM	
Density / Viscosity	9.3 / 54		
pH / Fluid Loss	10.0 / 6.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 73F		
Rmf @ Meas. Temp	0.75 @ 73F		
Rmc @ Meas. Temp	1.20 @ 73F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.57 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	127F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	KEVIN DAVIS		

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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

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: SHARON SPRING, KS. - 9 SOUTH ON HWY 27 TO RD G - 6 WEST - NORTH INTO

0 Gamma Ray (GAPI) 150

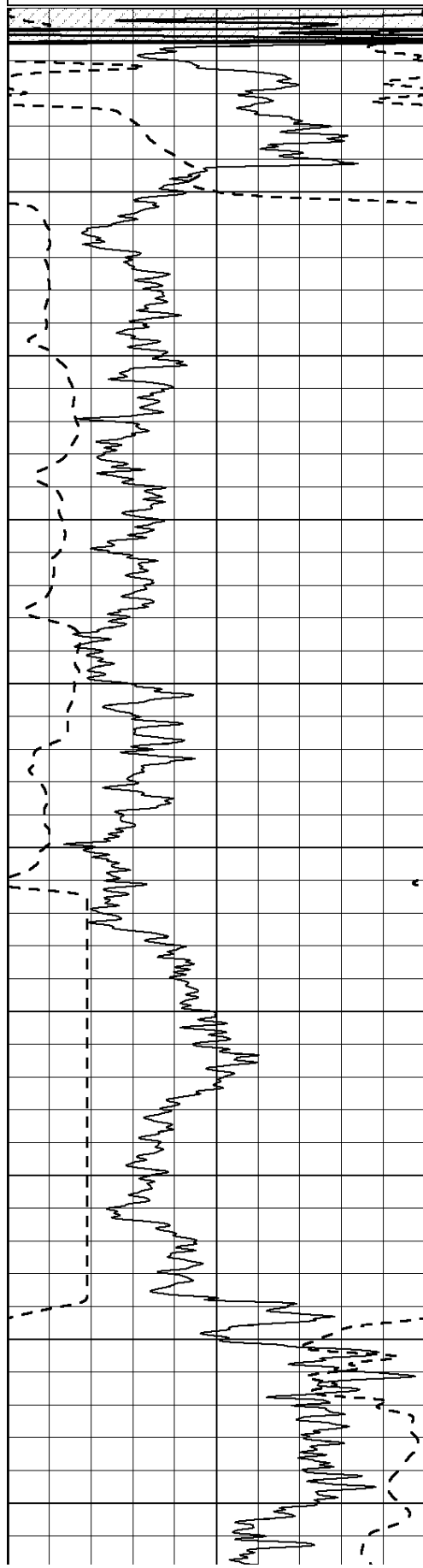
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0 Deep Induction (Ohm-m) 50

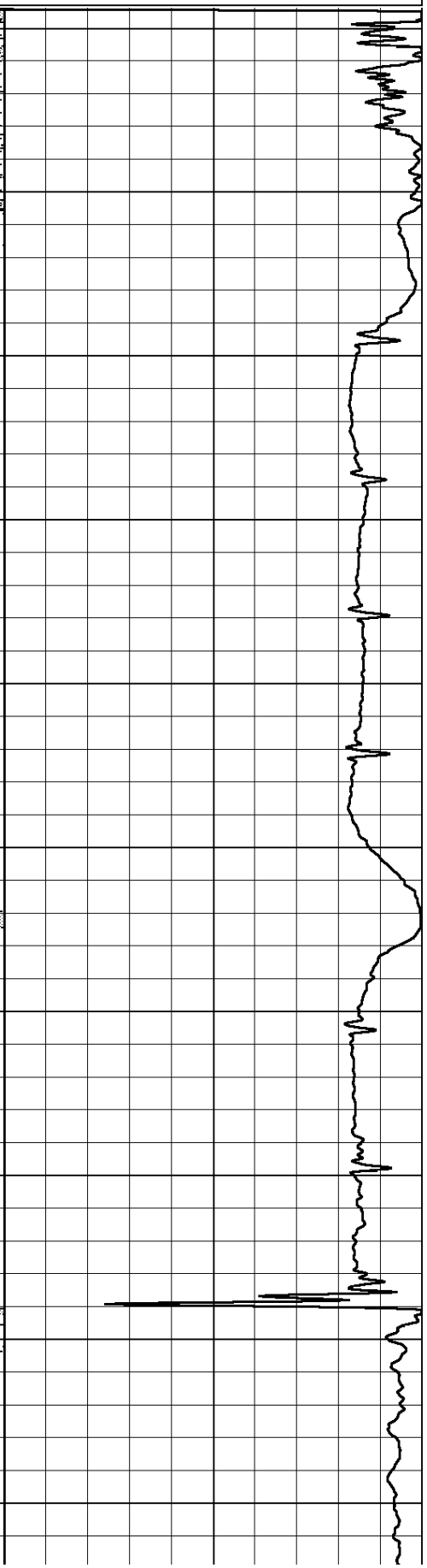
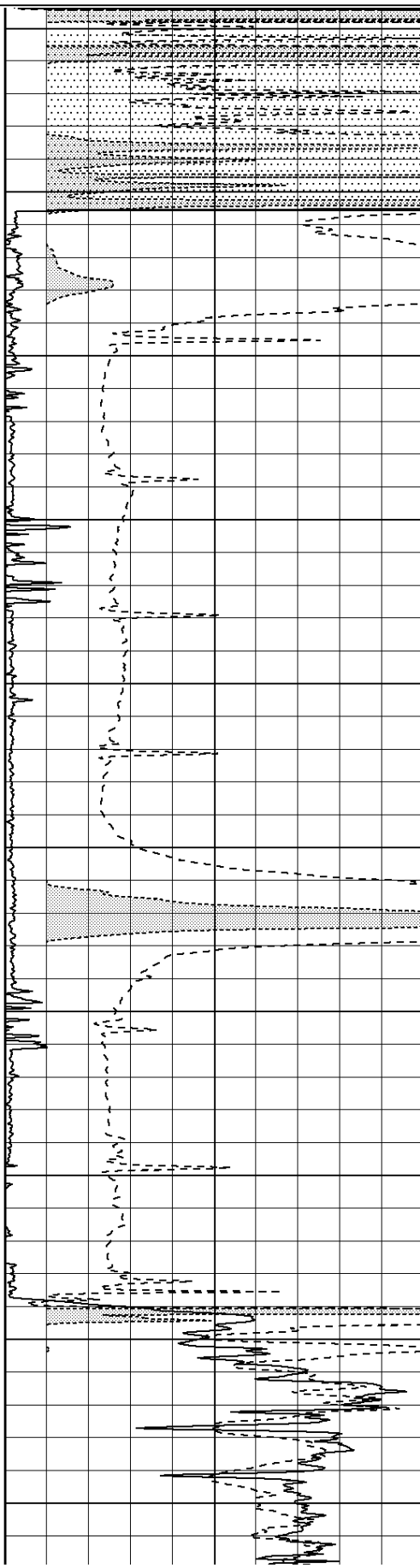
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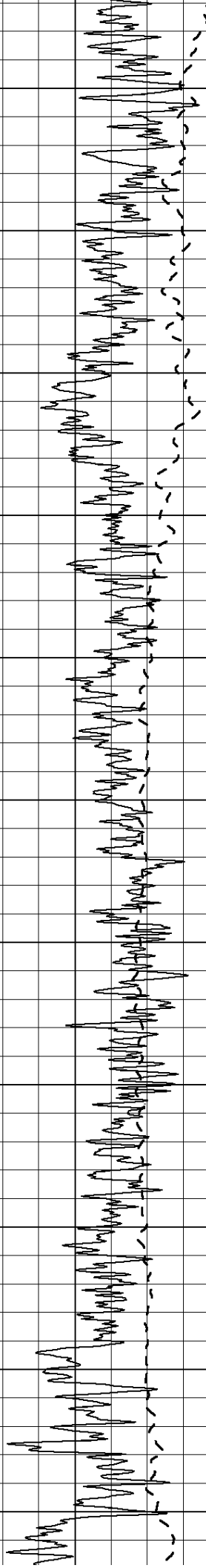
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50 RLL3 X10 (Ohm-m) 500

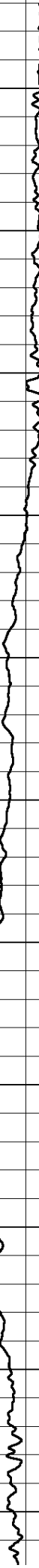
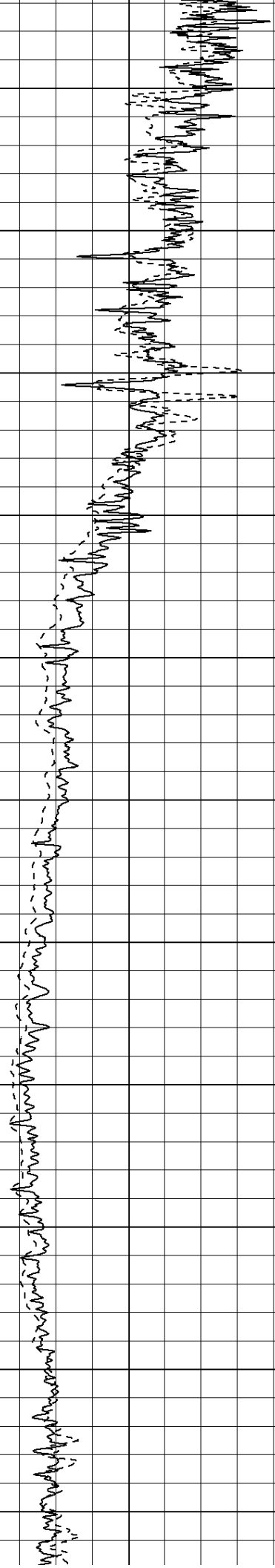


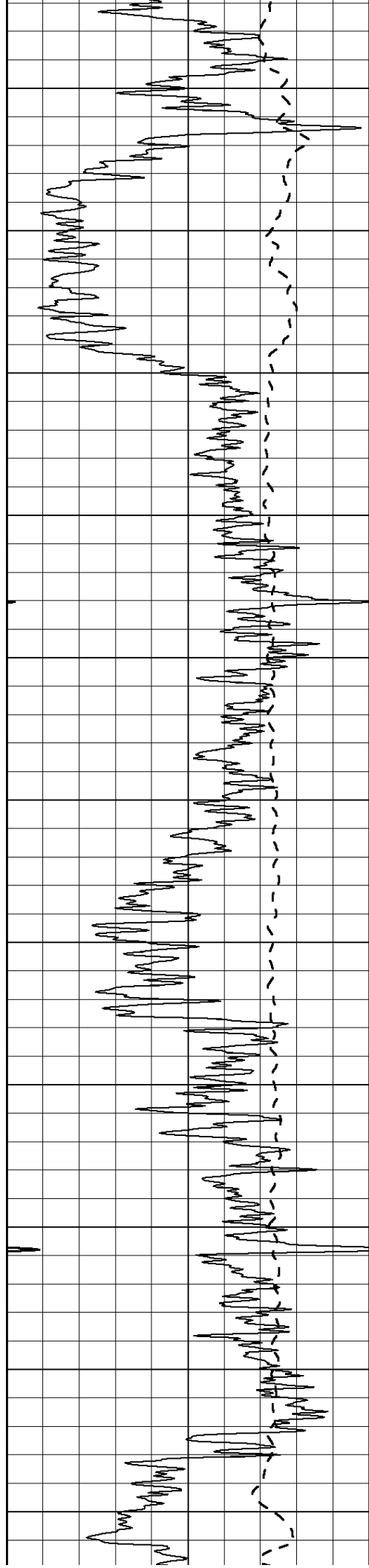
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1000





1050

1100

1150

1200

1250

1300

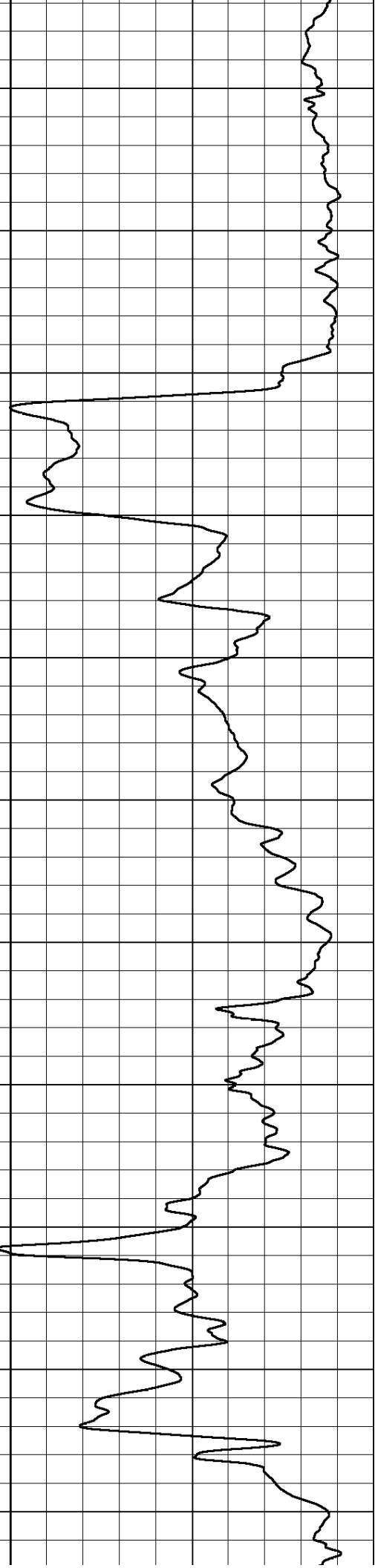
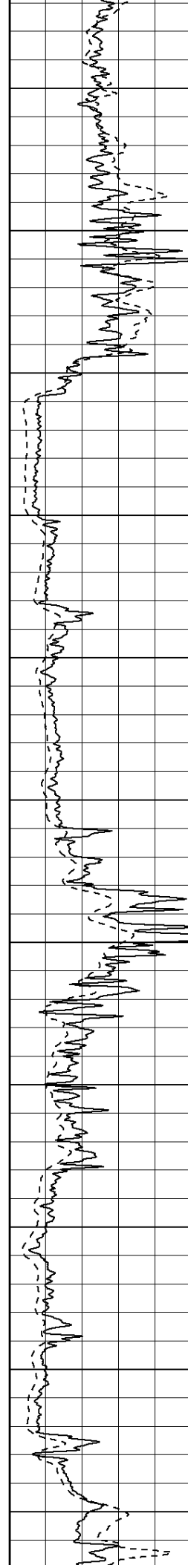
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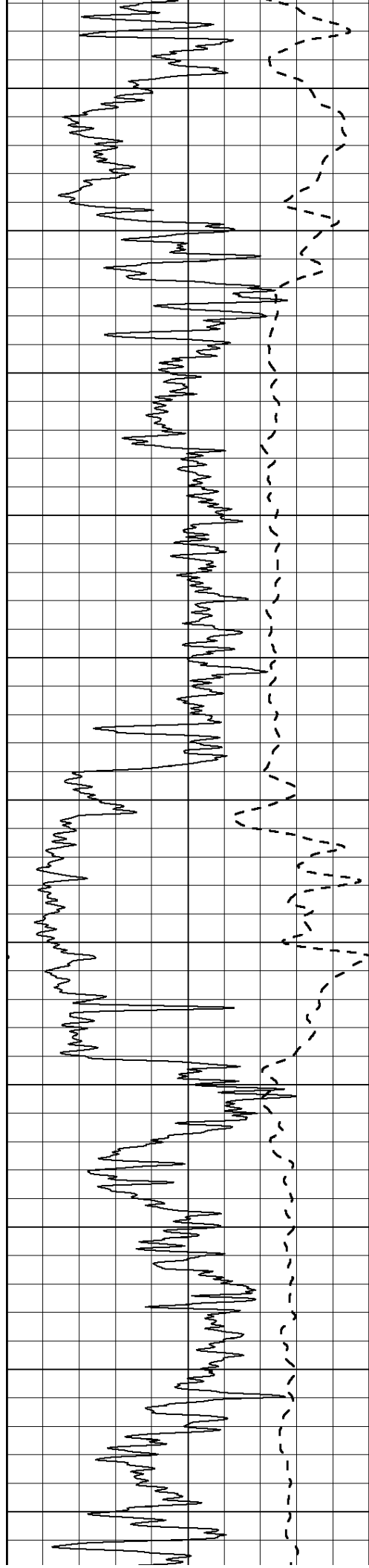
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1550





1600

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1800

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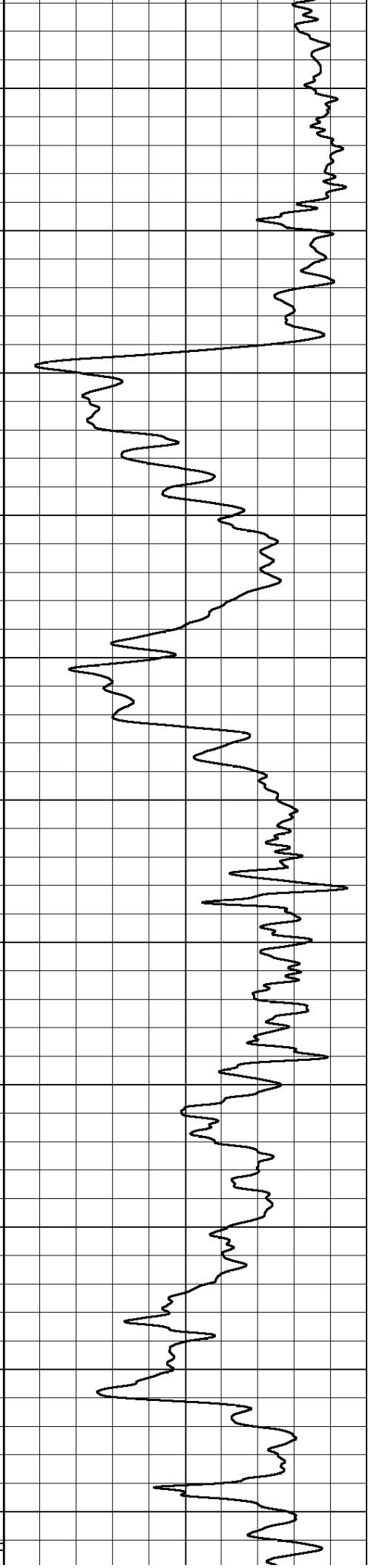
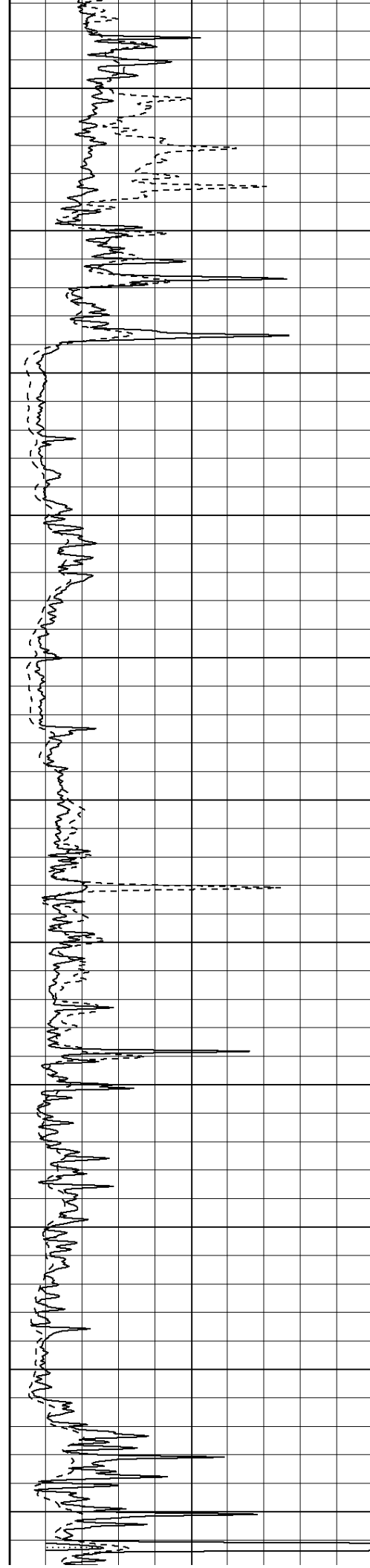
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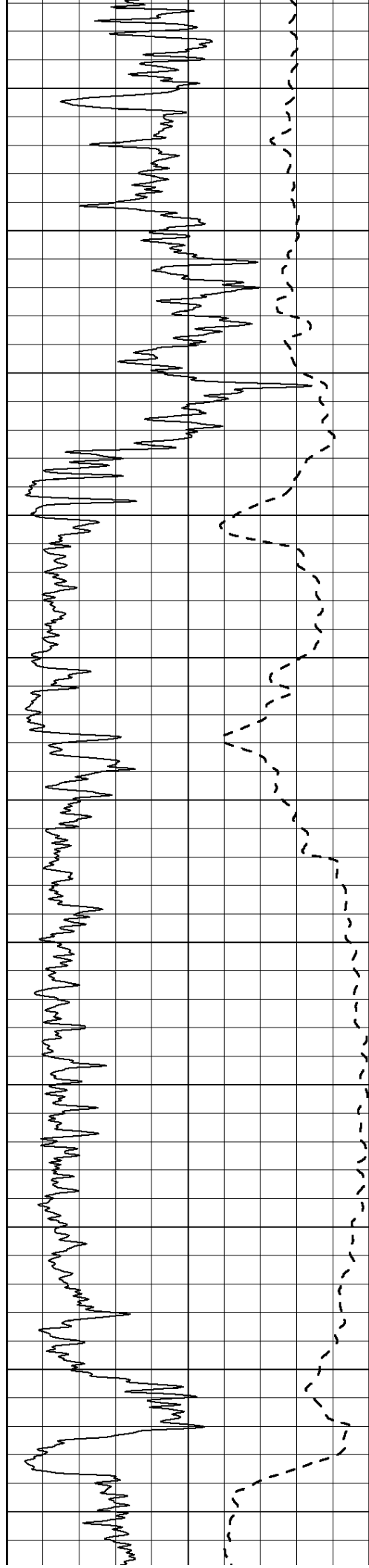
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2200

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2300

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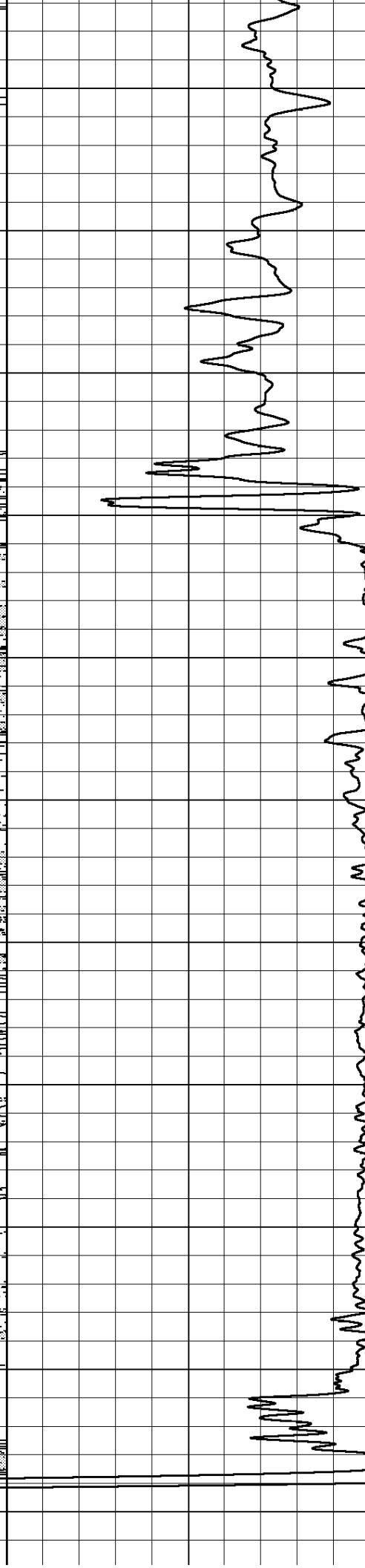
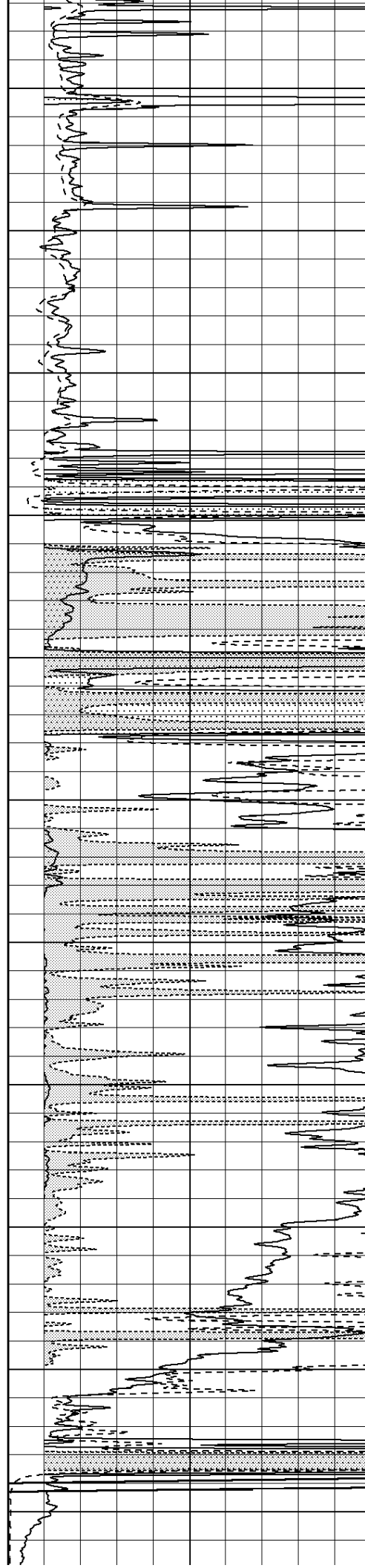
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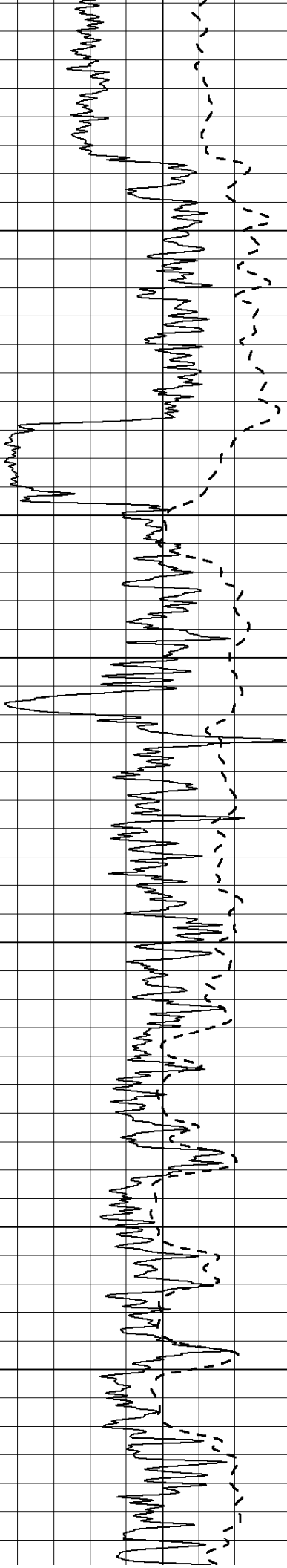
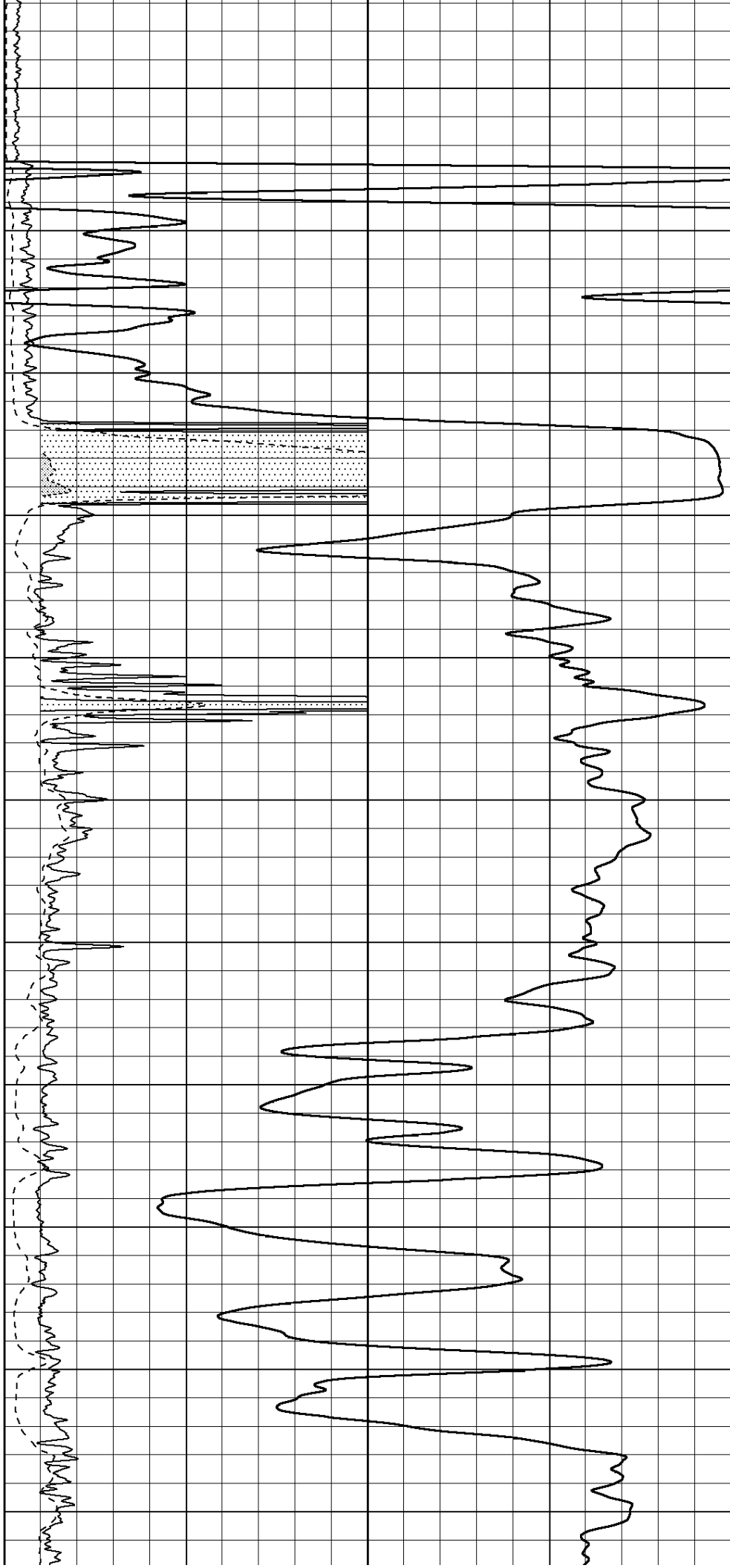
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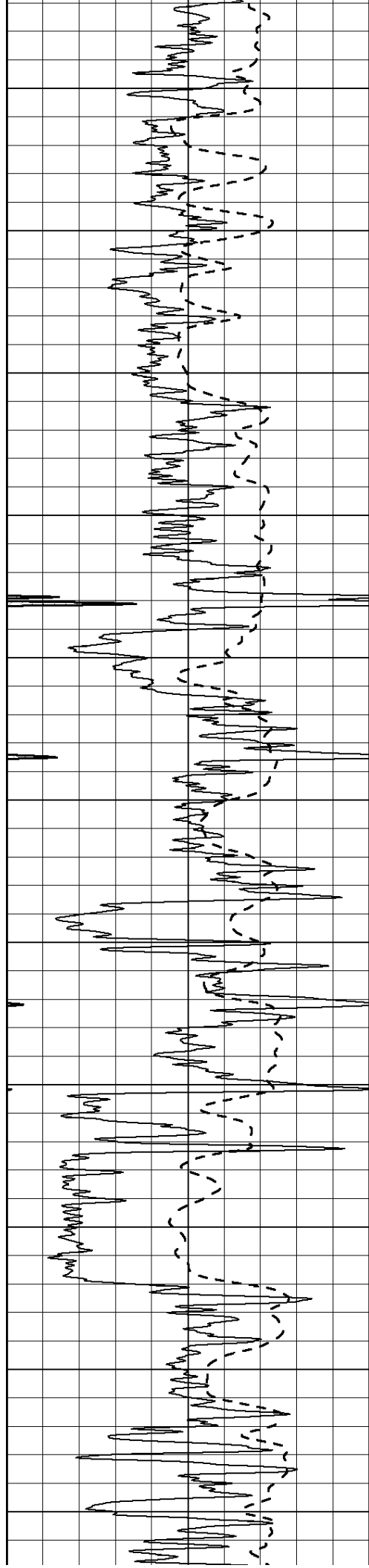
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2650



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3000
3050
3100
3150
3200





3250

3300

3350

3400

3450

3500

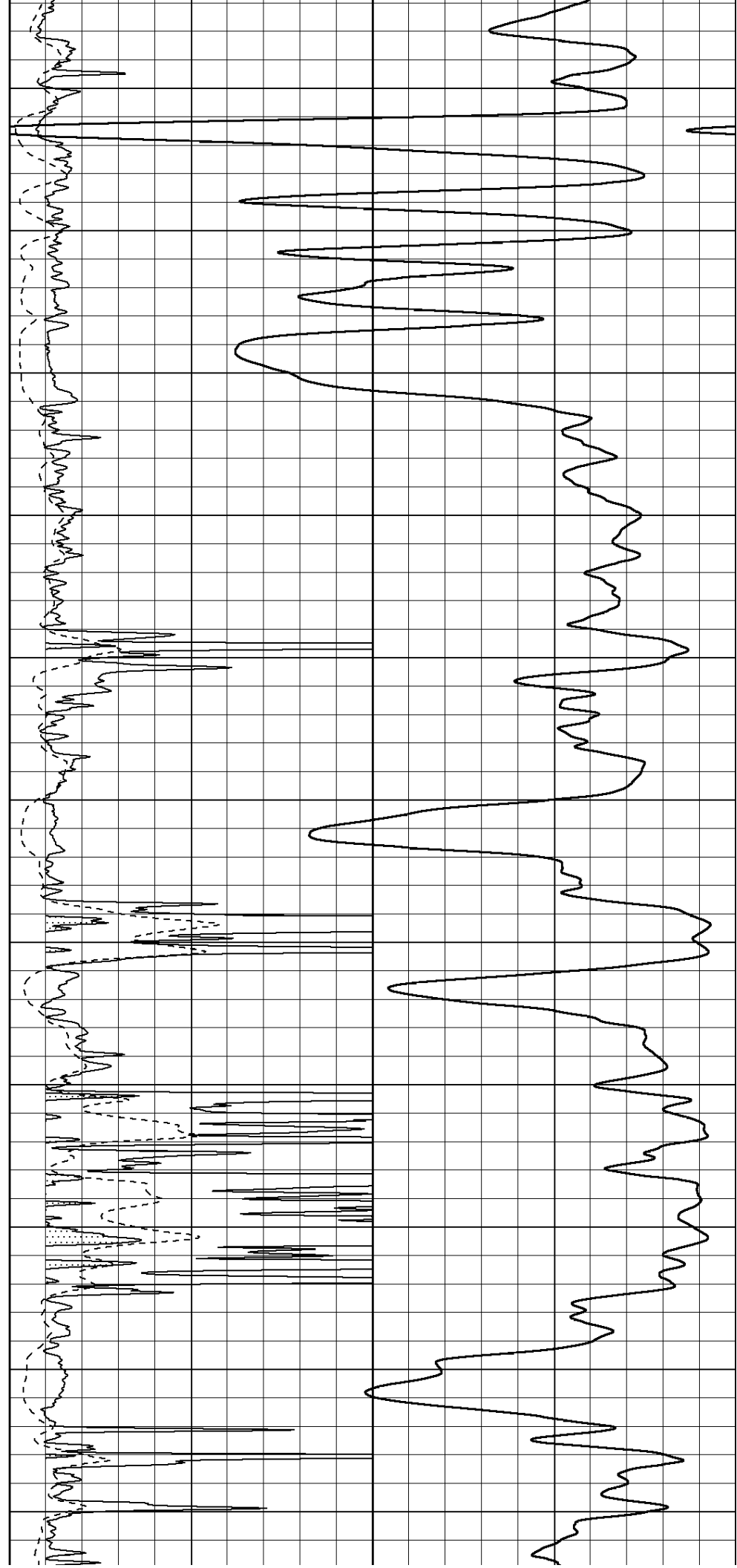
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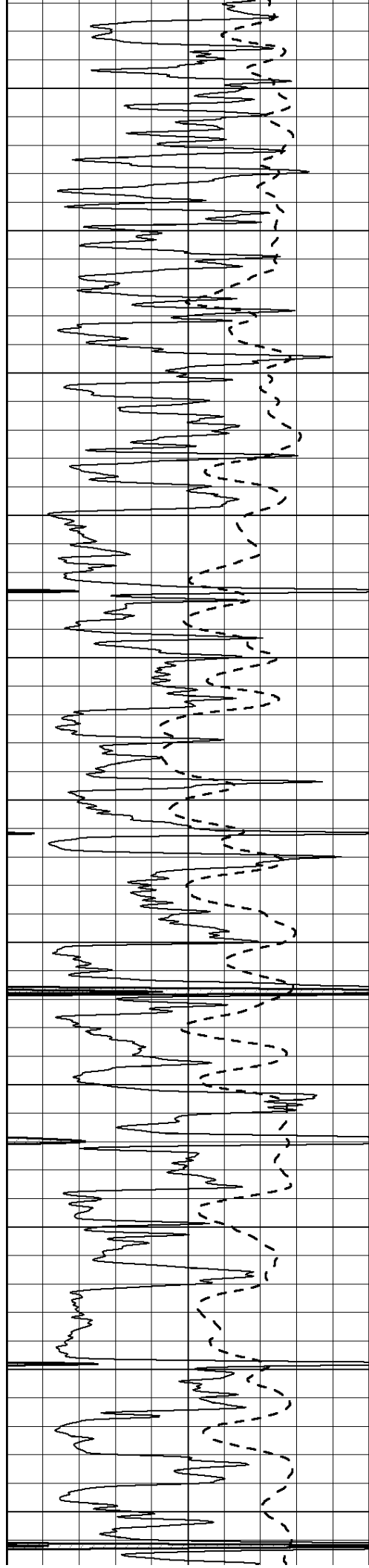
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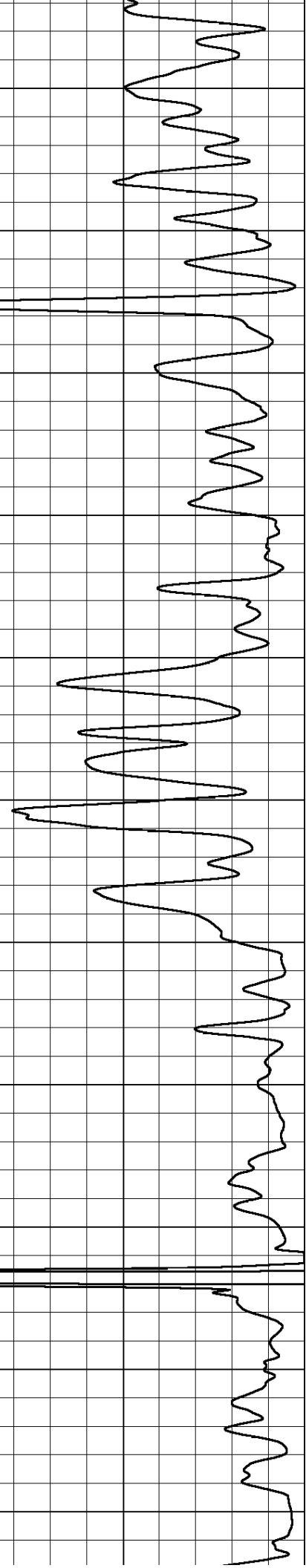
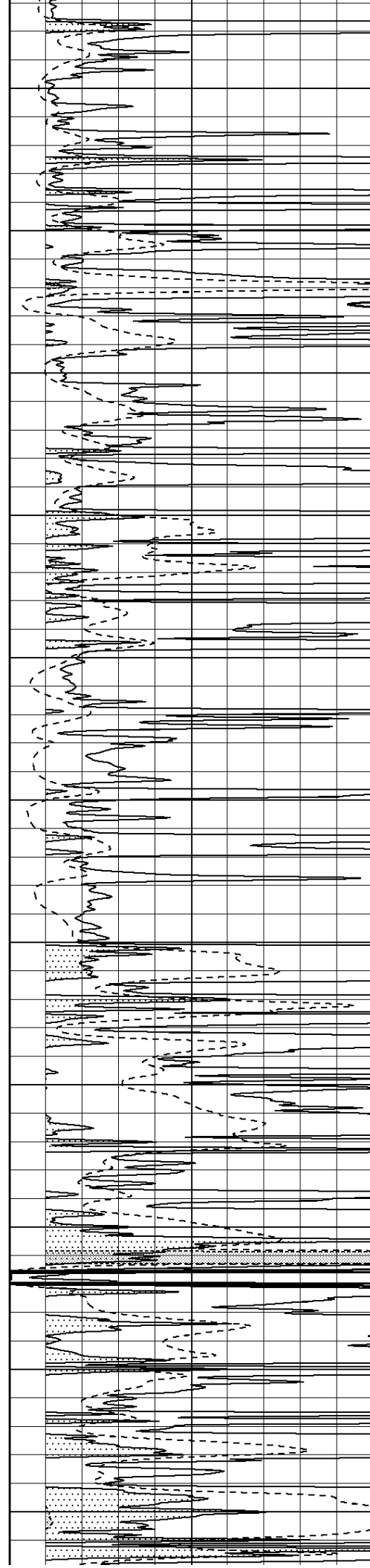
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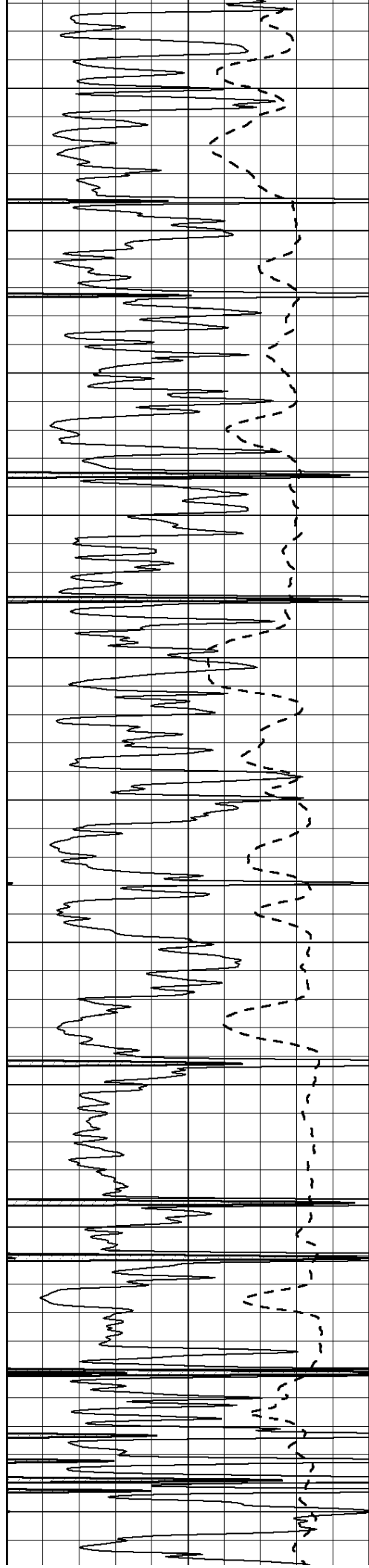
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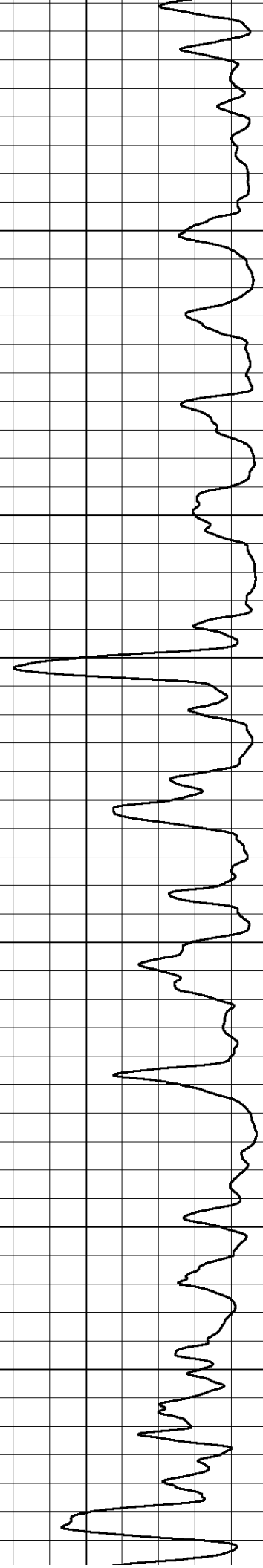
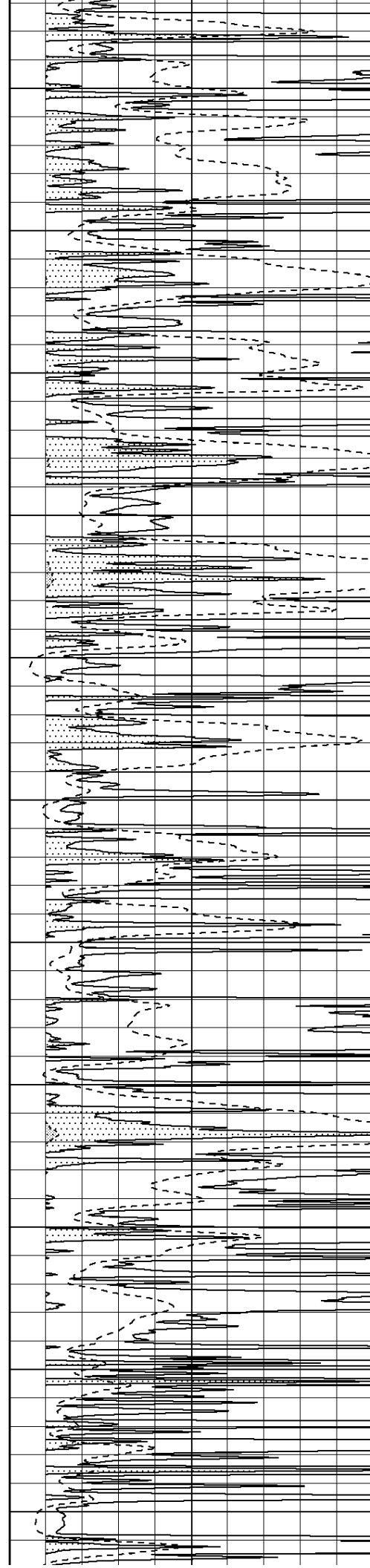


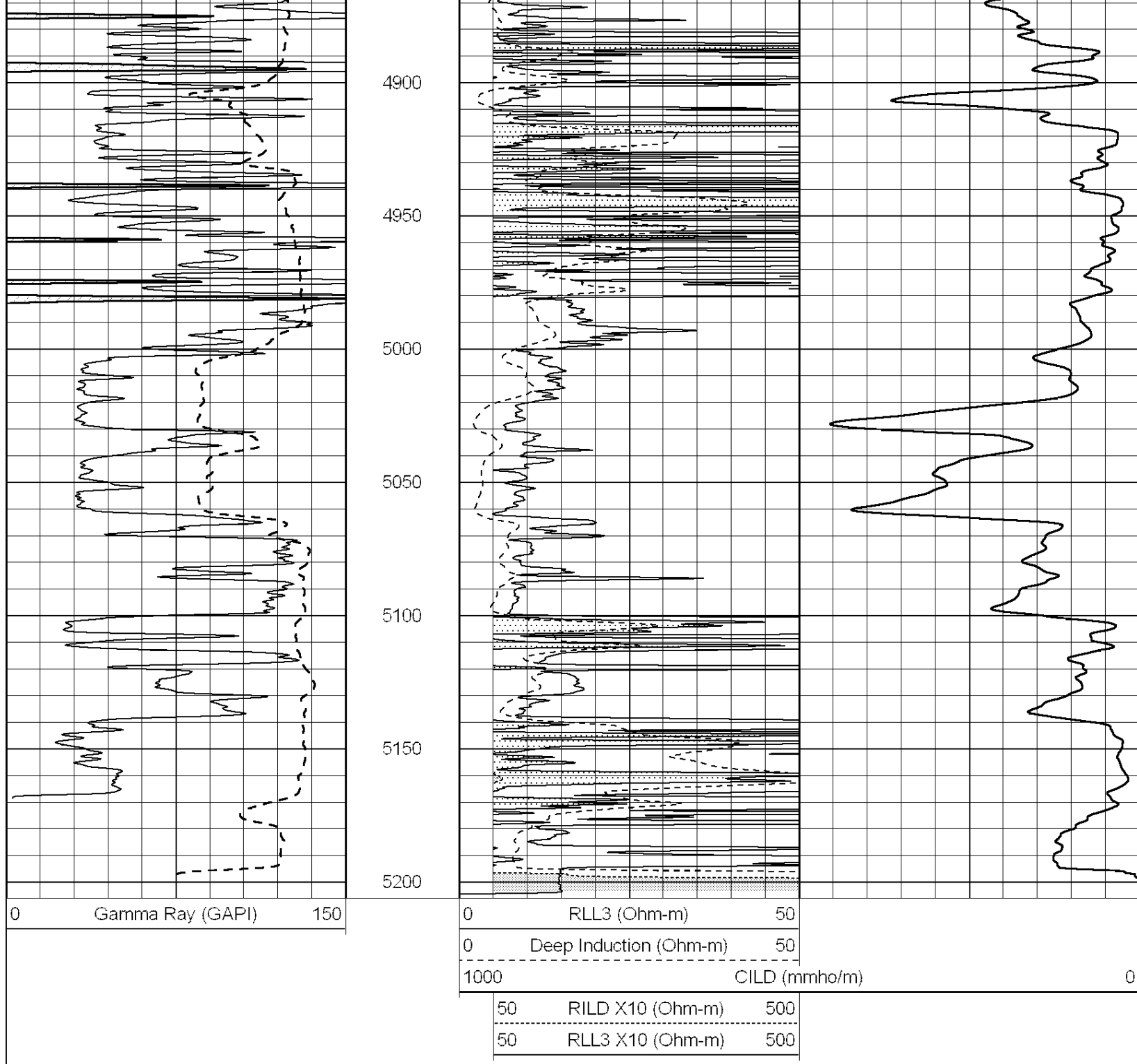
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4300





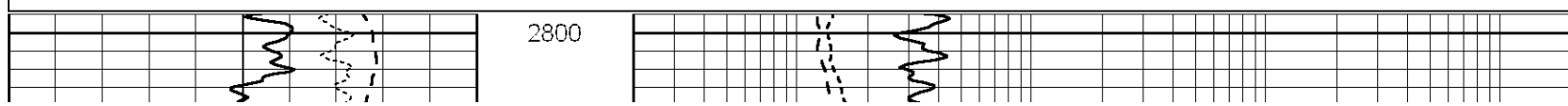
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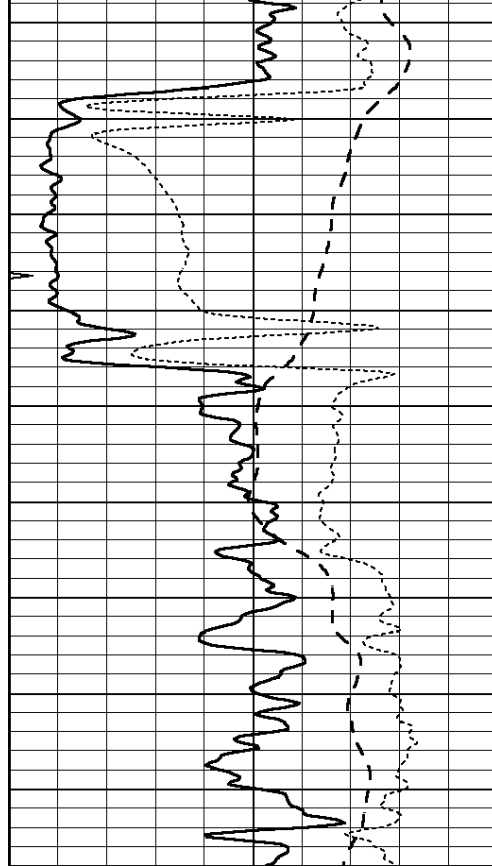




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 Charted by: Depth in Feet scaled 1:240

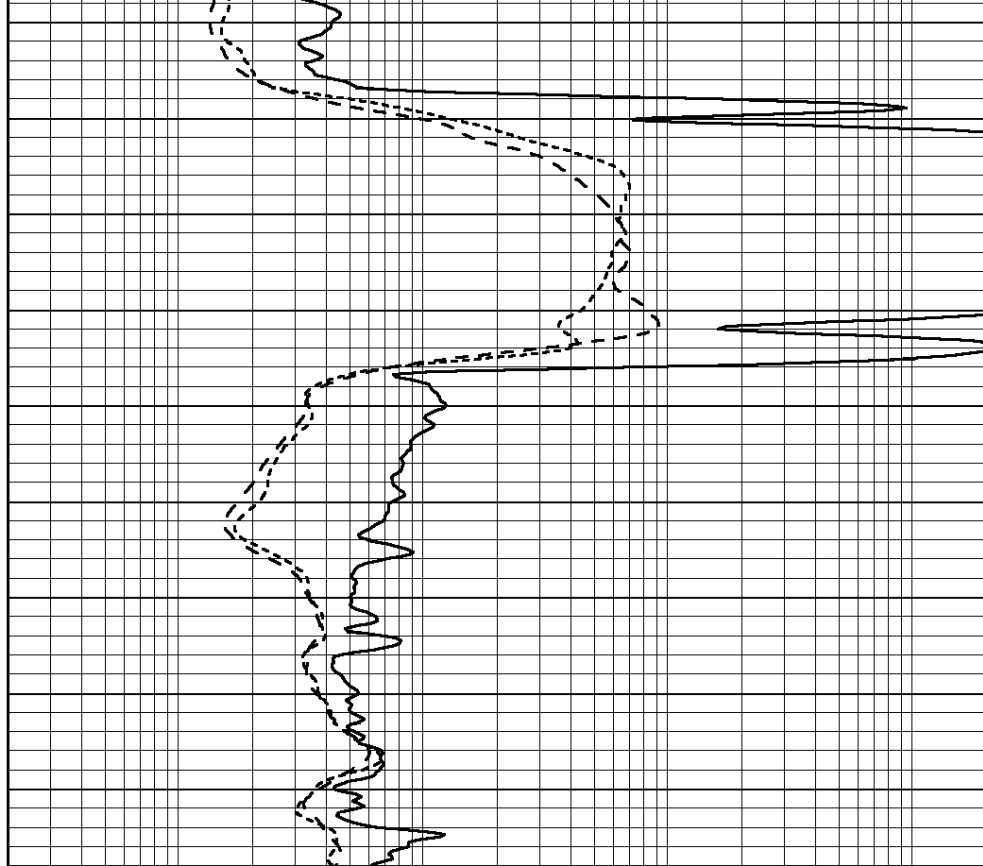
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-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





2850

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

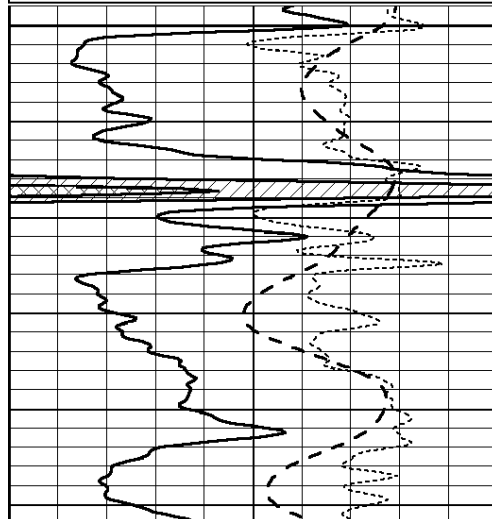


0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

Database File: 24145ddn.db
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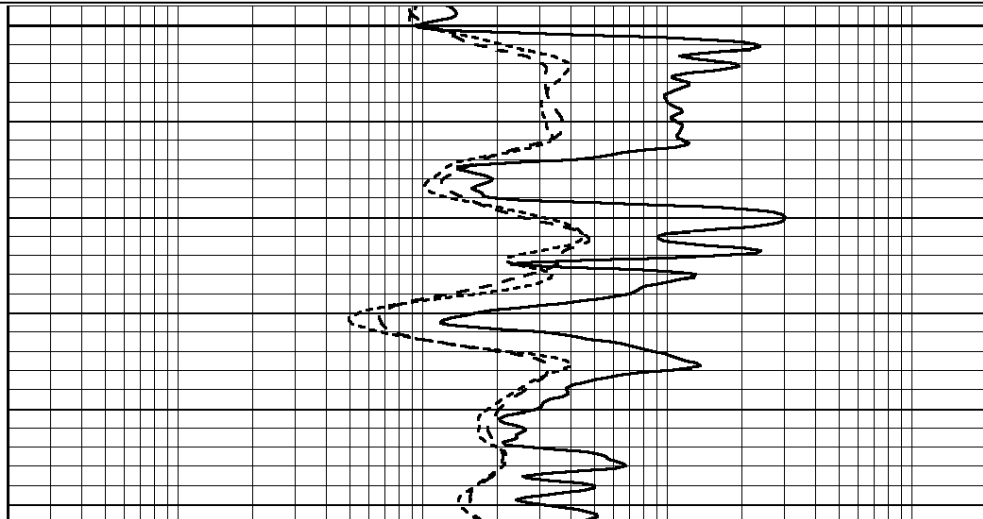
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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

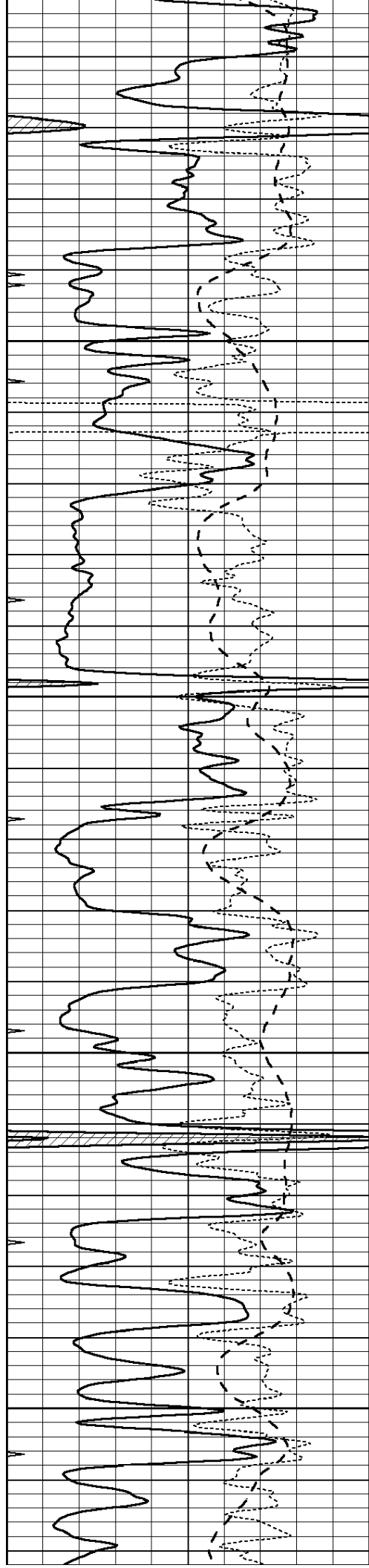
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



4100

4150



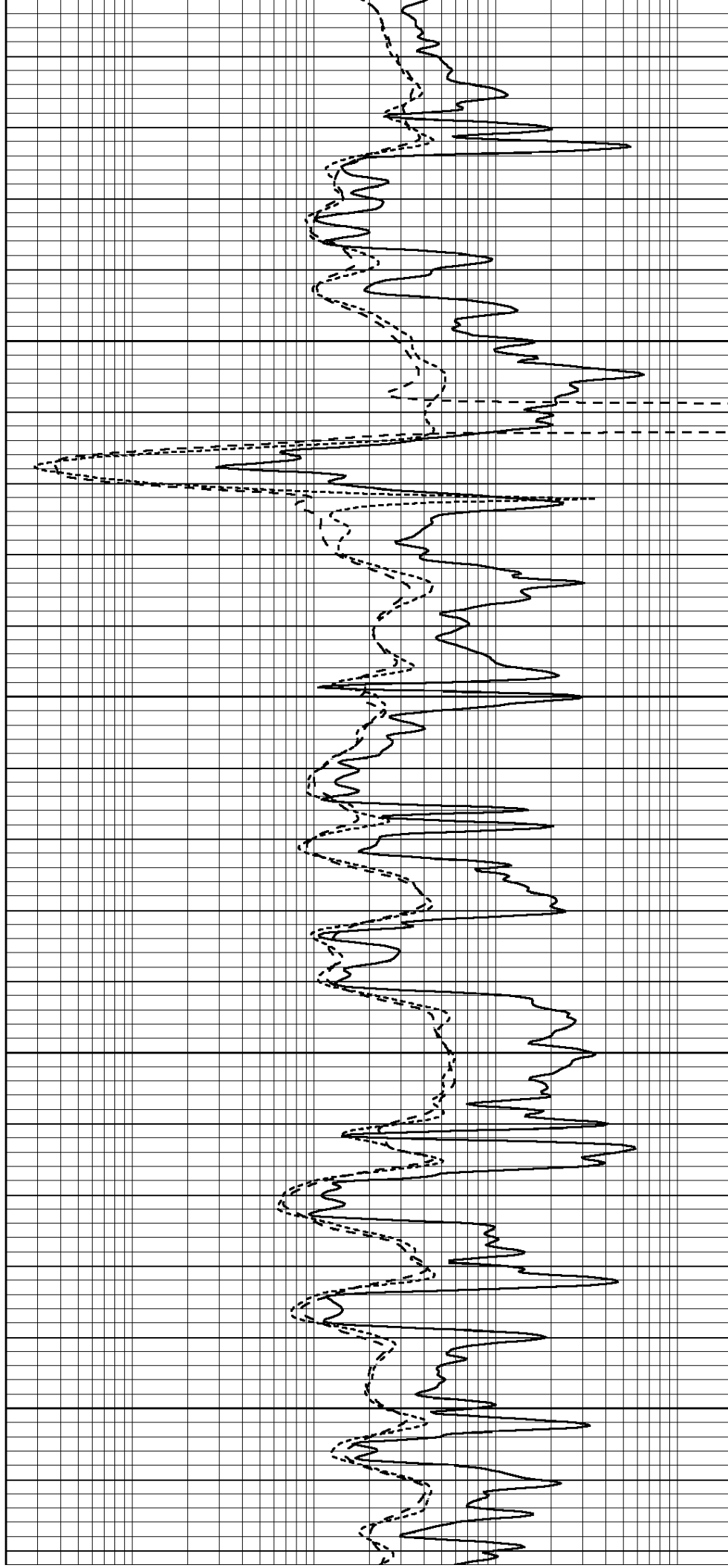


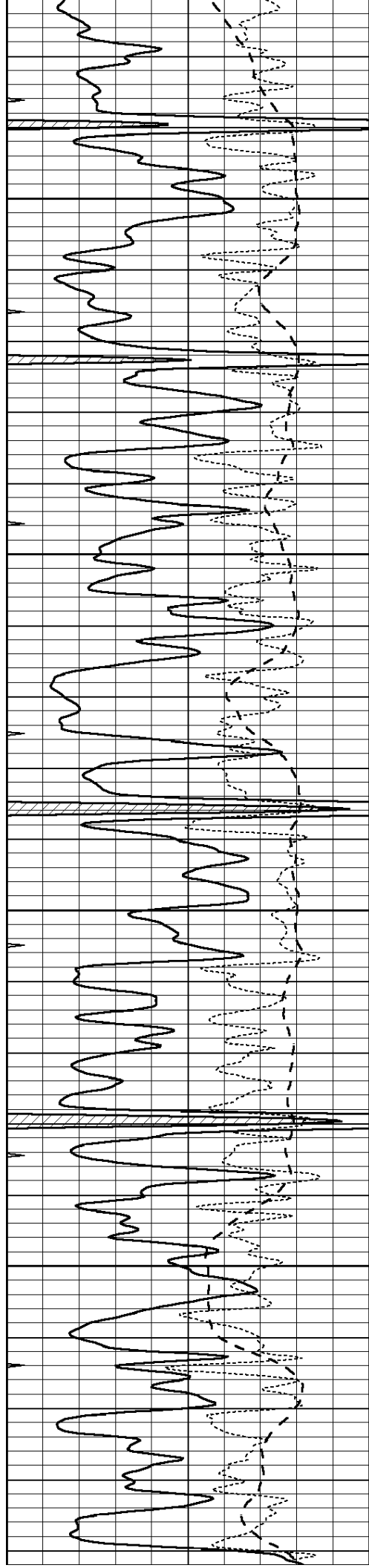
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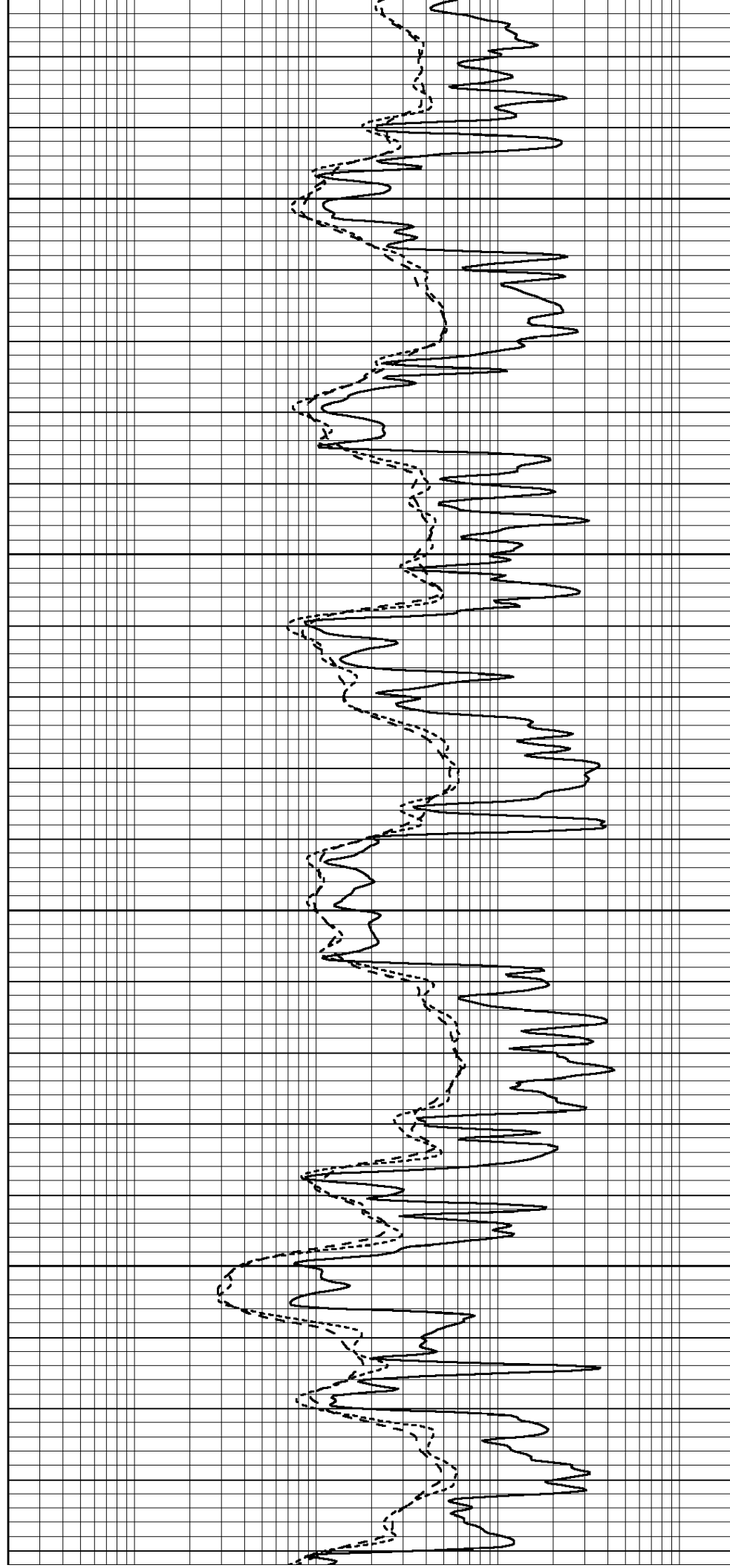


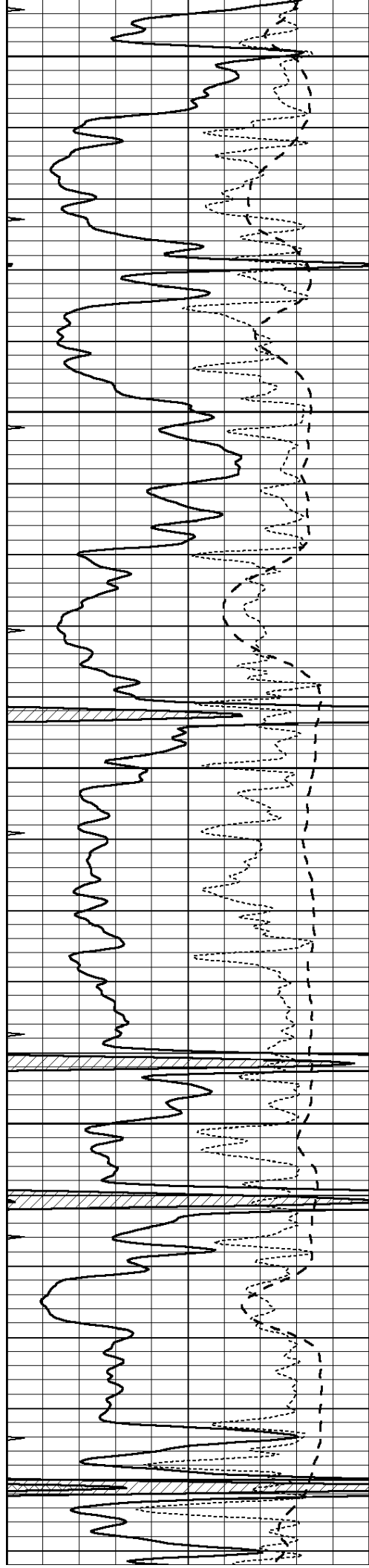
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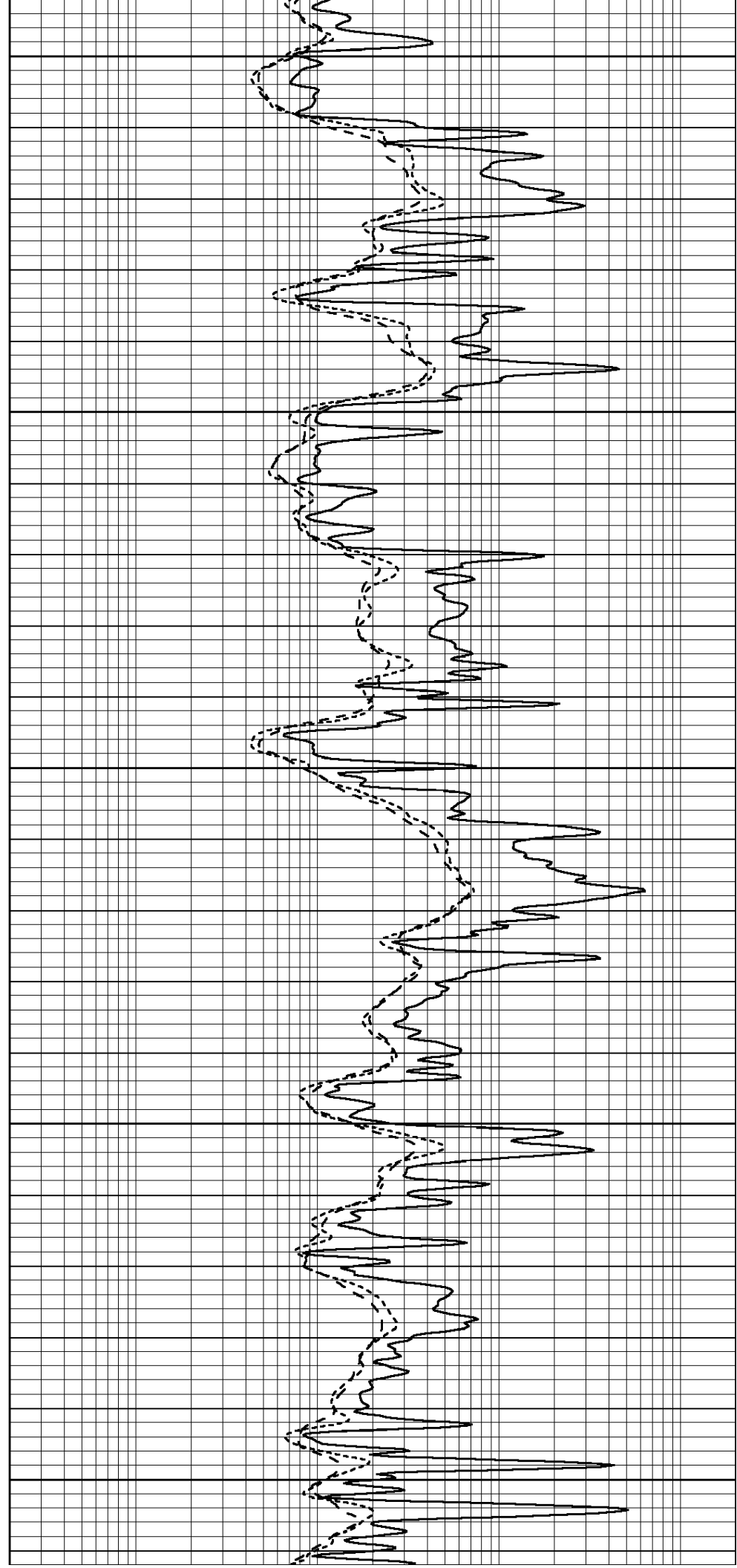
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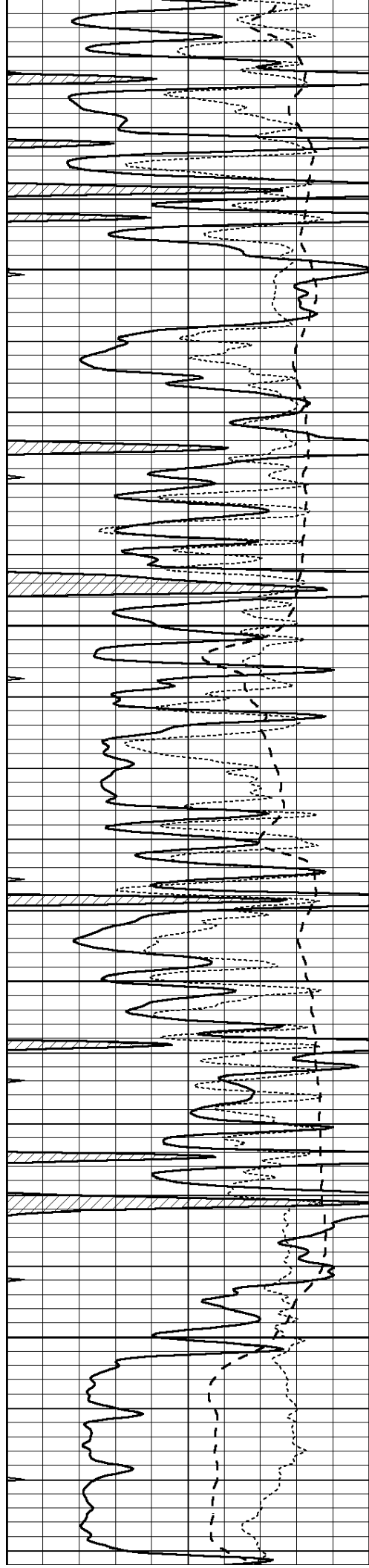
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4750

4800



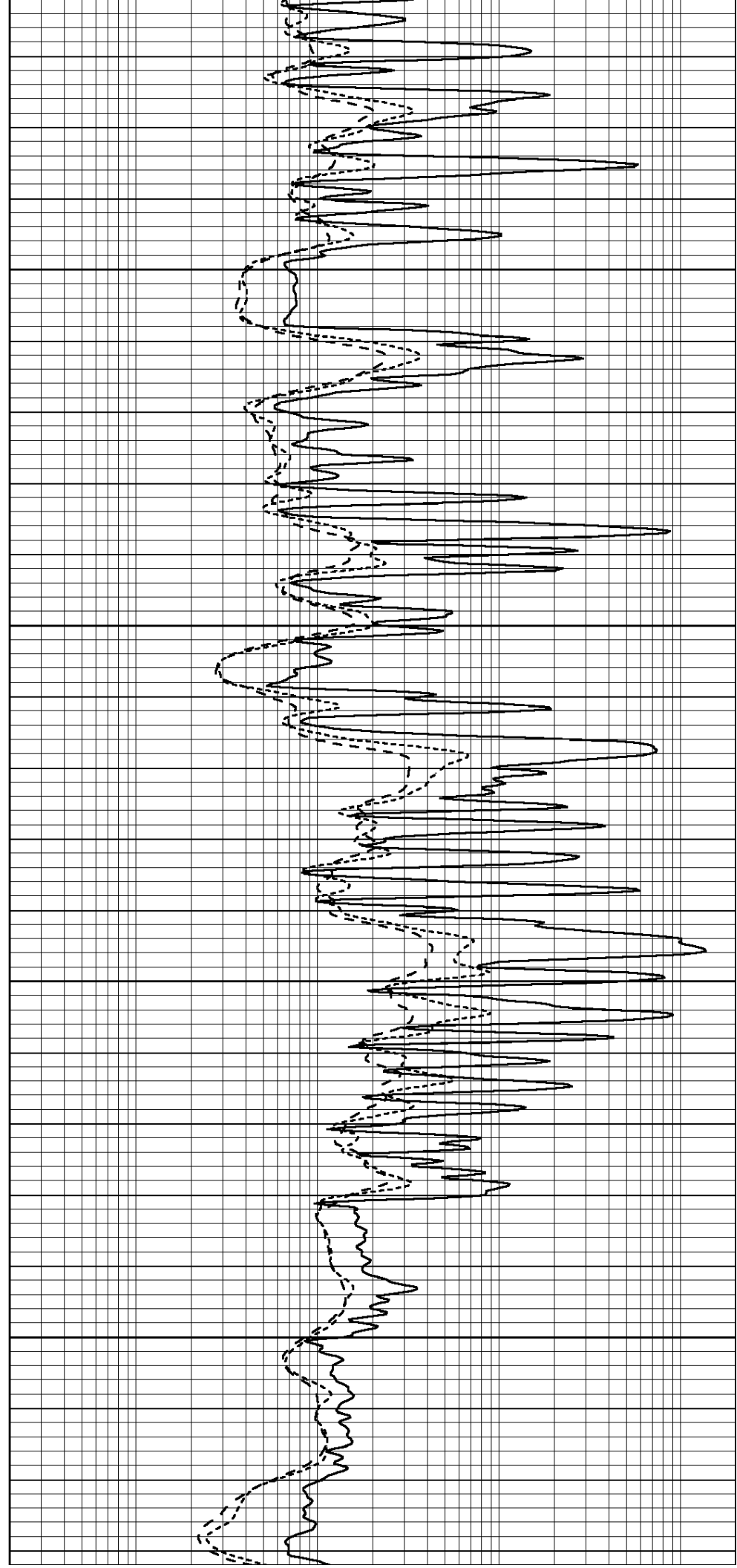


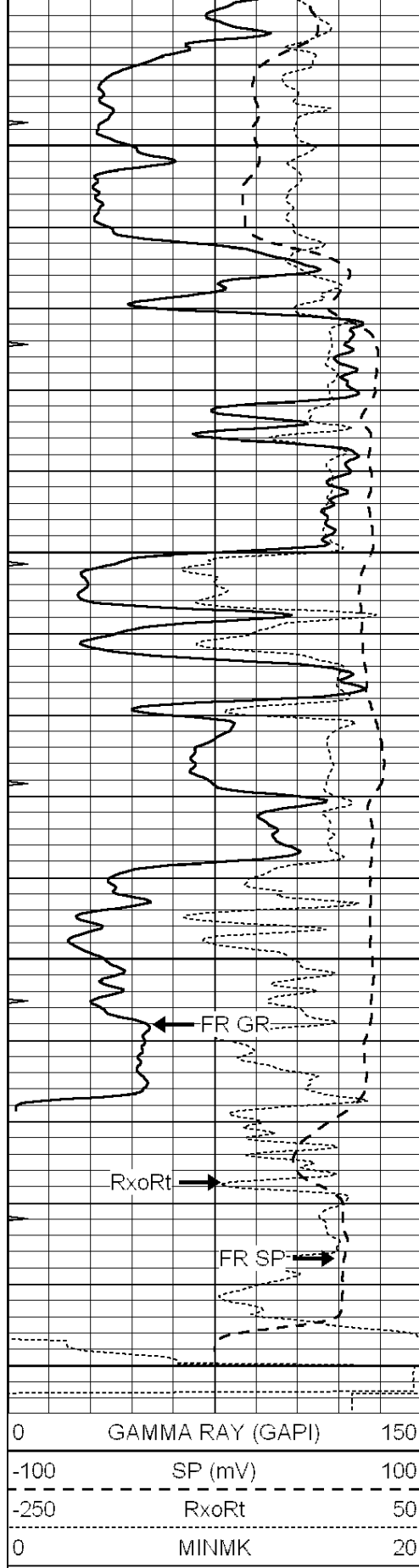
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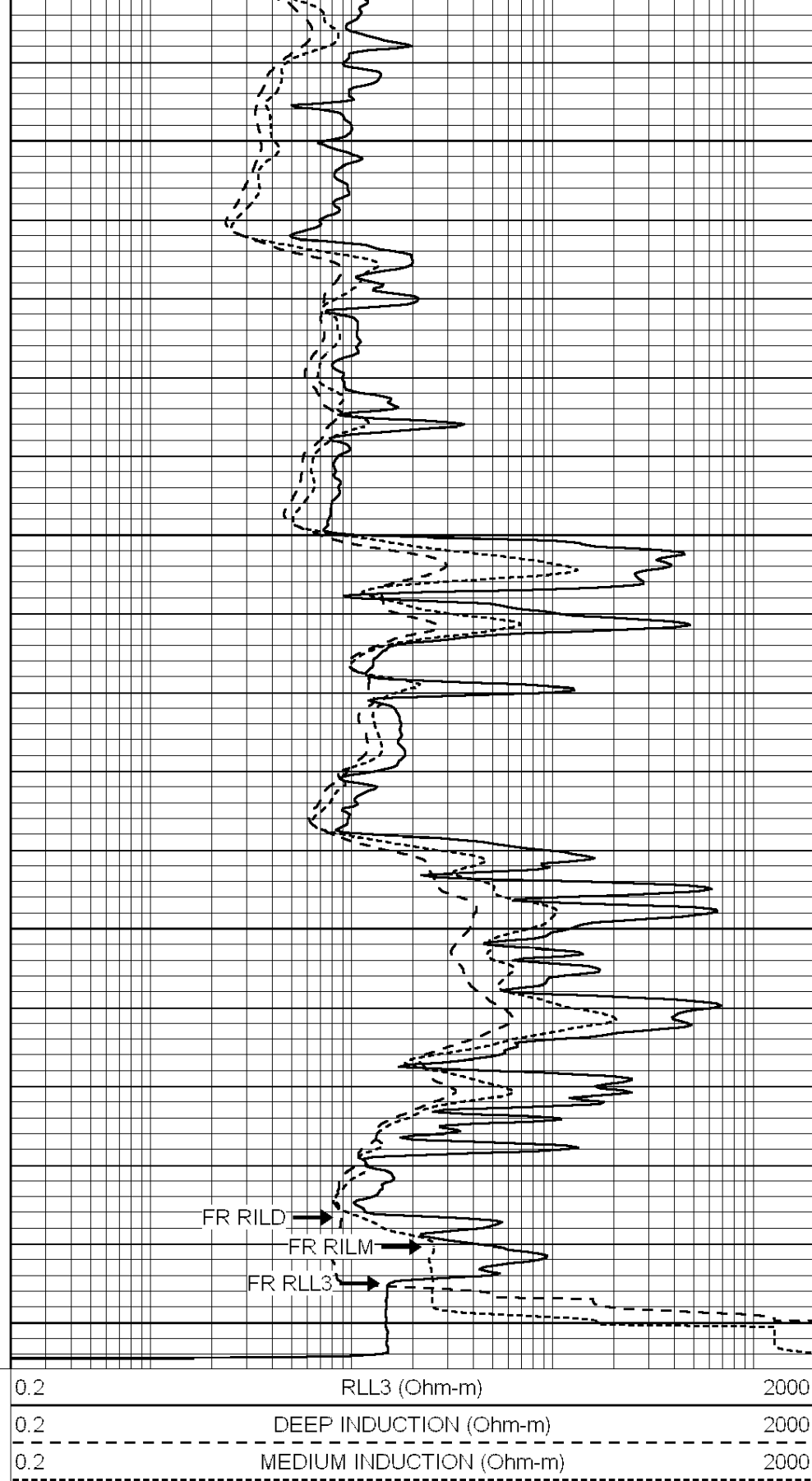
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5150

LTD 5197

5200

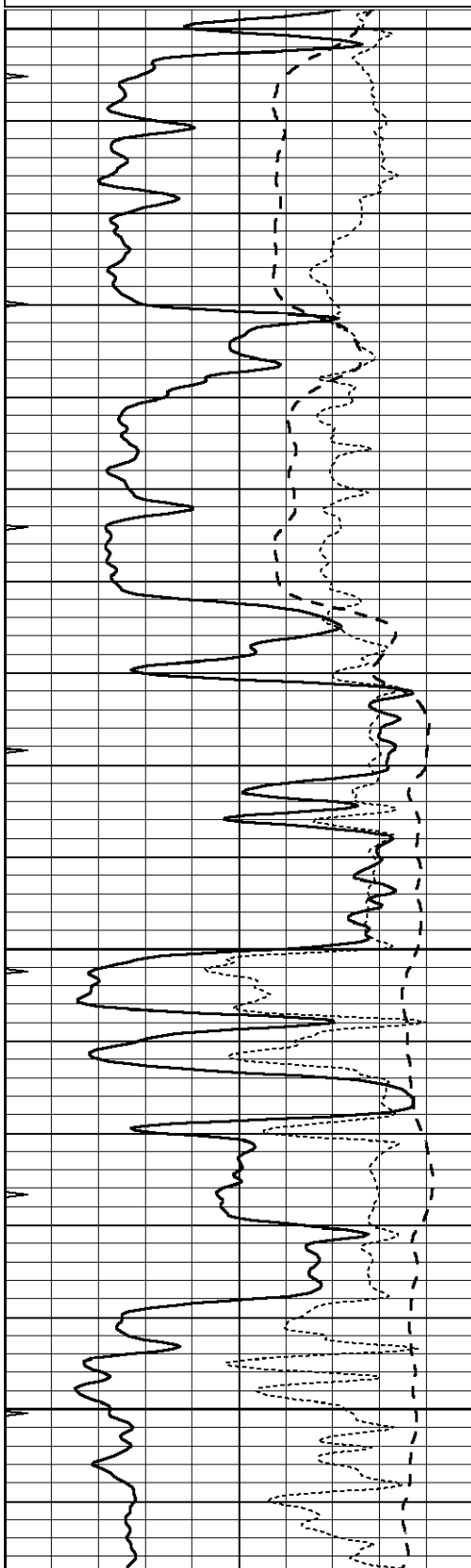


SERVICES CO.

Database File: 24145ddn.db
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 Presentation Format: _dil
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 Charted by: Depth in Feet scaled 1:240

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-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

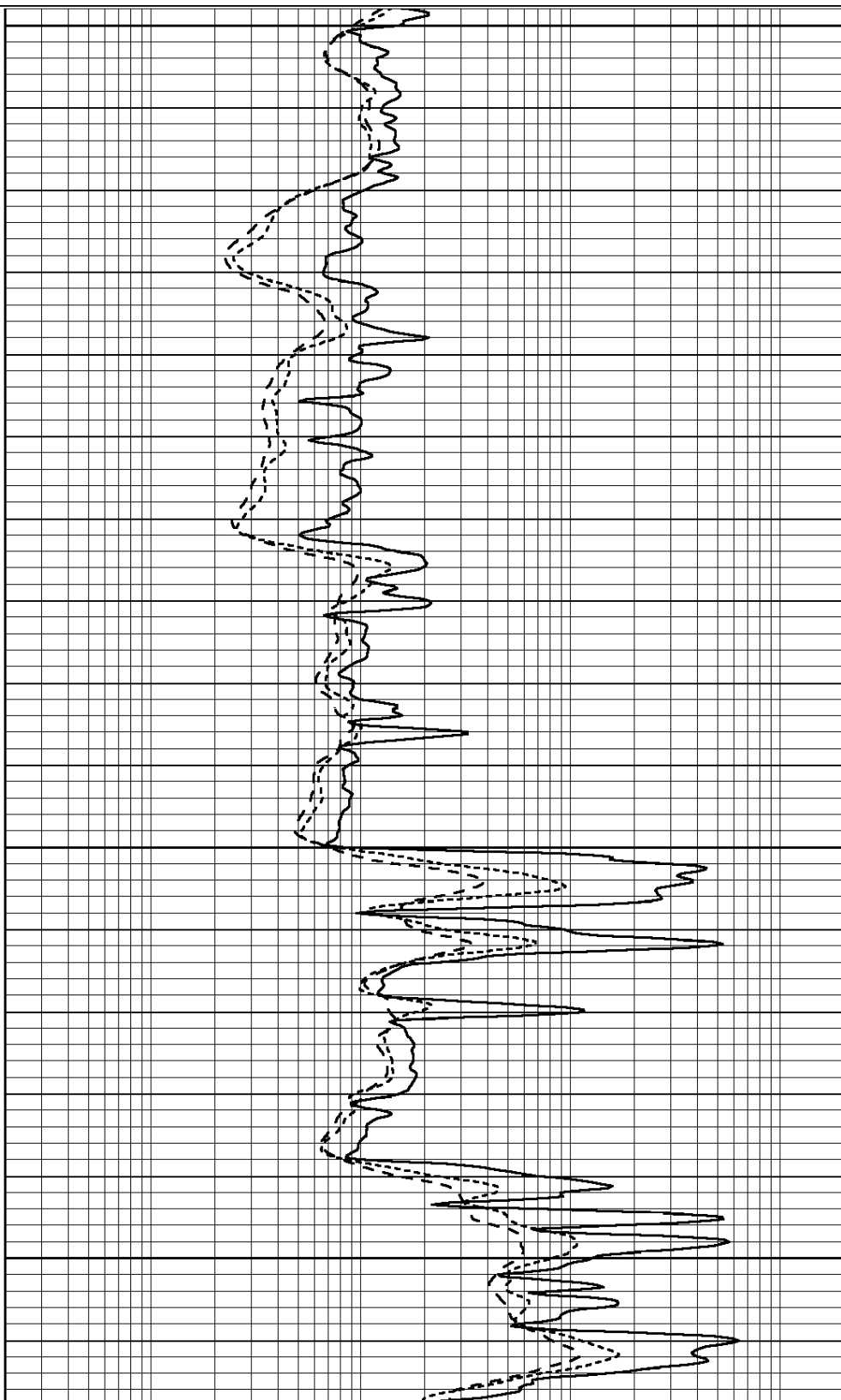


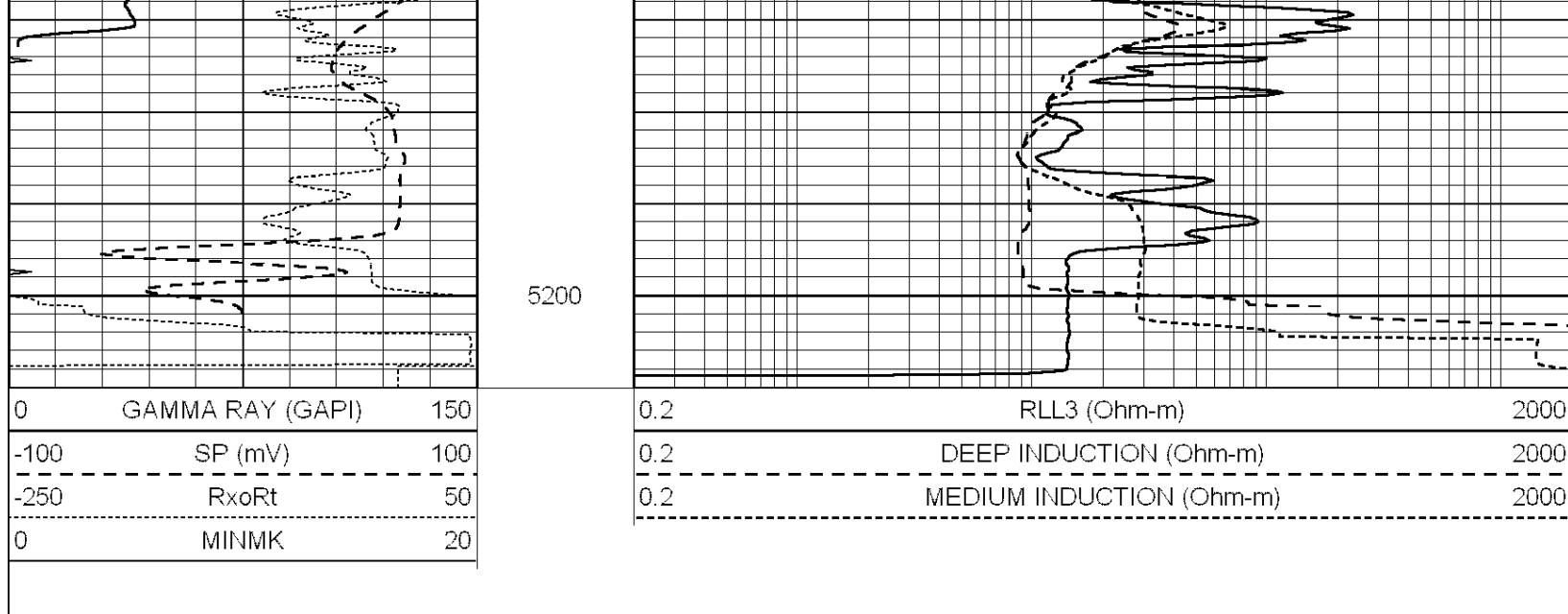
5000

5050

5100

5150





Calibration Report

Database File: 24145ddn.db
 Dataset Pathname: pass3.3
 Dataset Creation: Tue Apr 29 01:56:32 2014 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Fri Apr 18 20:58:05 2014

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	6.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	540.000	5.000
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

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Fri Apr 18 18:53:26 2014

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1211.27		625.92	cps
Aluminum	2.590	g/cc		267.11		413.26	cps
Spine Angle = 74.64				Density/Spine Ratio = 0.561			
	Size			Reading			
Small Ring	8.20	in		5.18	V		
Large Ring	14.00	in		8.18	V		

Compensated Neutron Calibration Report

Serial Number: 080620
 Tool Model: Probe

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
POST-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	7		
Tool Model:	Probe1		
Performed:	Fri Apr 18 20:57:05 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4500	GAPI/cps	