



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	RITCHIE EXPLORATION, INC.		
Well	NUSS FARMS 36B #1		
Field	WILDCAT		
County	LOGAN		
State	KANSAS		
Company	RITCHIE EXPLORATION, INC.		
Well	NUSS FARMS 36B #1		
Field	WILDCAT		
County	LOGAN		
State	KANSAS		
Location:	API # : 15-109-20880		Other Services
2069' FNL & 1067' FWL		CDL/CNL	
SEC 36 TWP 13S RGE 32W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2898
Log Measured From	KELLY BUSHING 10' A.G.L.	D.F.	
Drilling Measured From	KELLY BUSHING	G.L.	2898
Date	2-3-10		
Run Number	ONE		
Depth Driller	4660		
Depth Logger	4657		
Bottom Logged Interval	4655		
Top Log Interval	00		
Casing Driller	212		
Casing Logger	212		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 56		
pH / Fluid Loss	11.0 / 7.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.80 @ 75F		
Rinf @ Meas. Temp	0.60 @ 75F		
Rmc @ Meas. Temp	0.96 @ 75F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.490 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	10:30 P.M.		
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	WES HANSEN		

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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, S TO NAVAHOE RD., 1 1/2E, S INTO.



SUPERIOR
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MAIN SECTION

Database File: 004792ddn.db
Dataset Pathname: pass3.A
Presentation Format: dil2
Dataset Creation: Wed Feb 03 00:50:48 2010
Charted by: Depth in Feet scaled 1:600

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

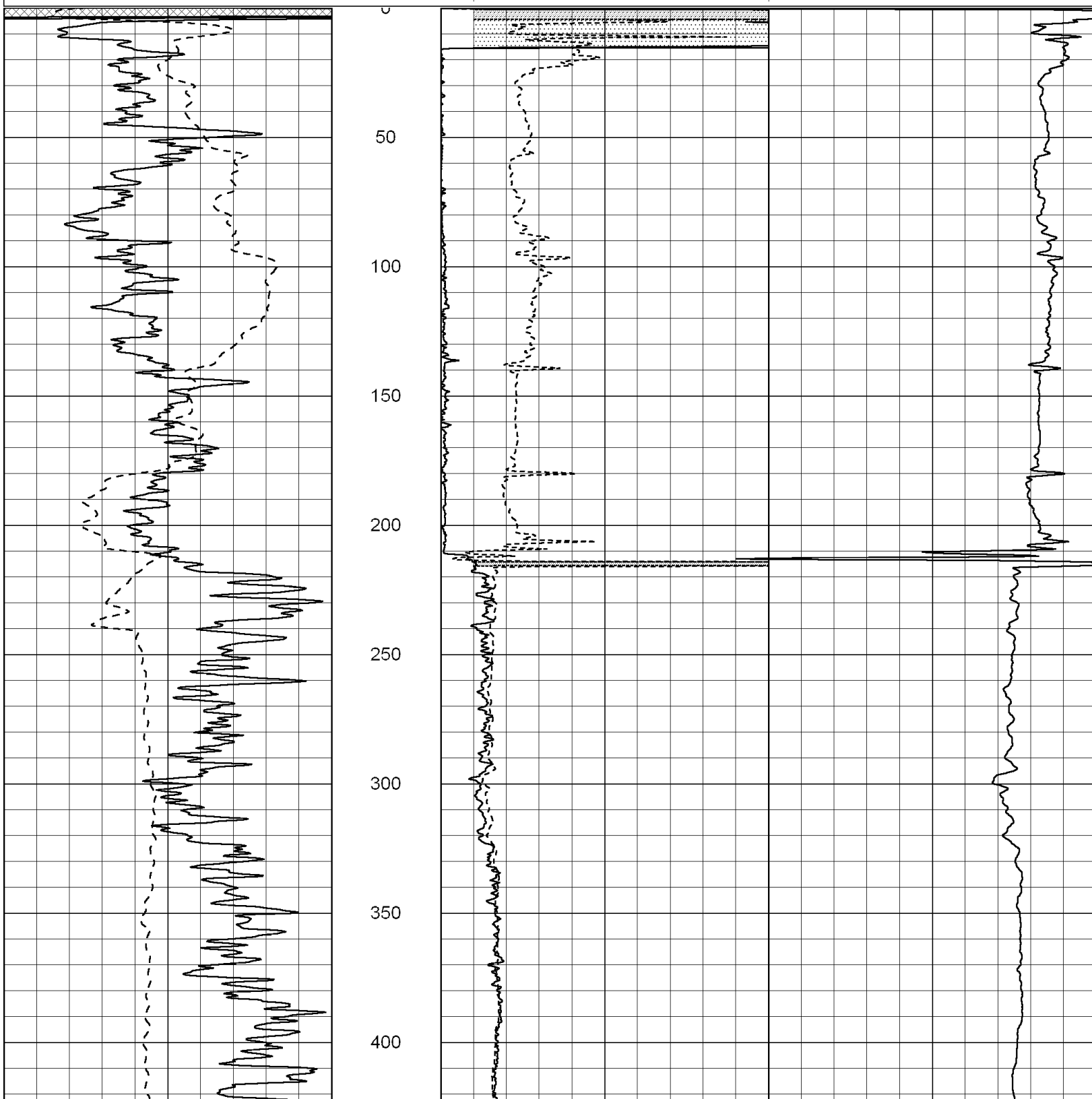
0	RLL3 (Ohm-m)	50
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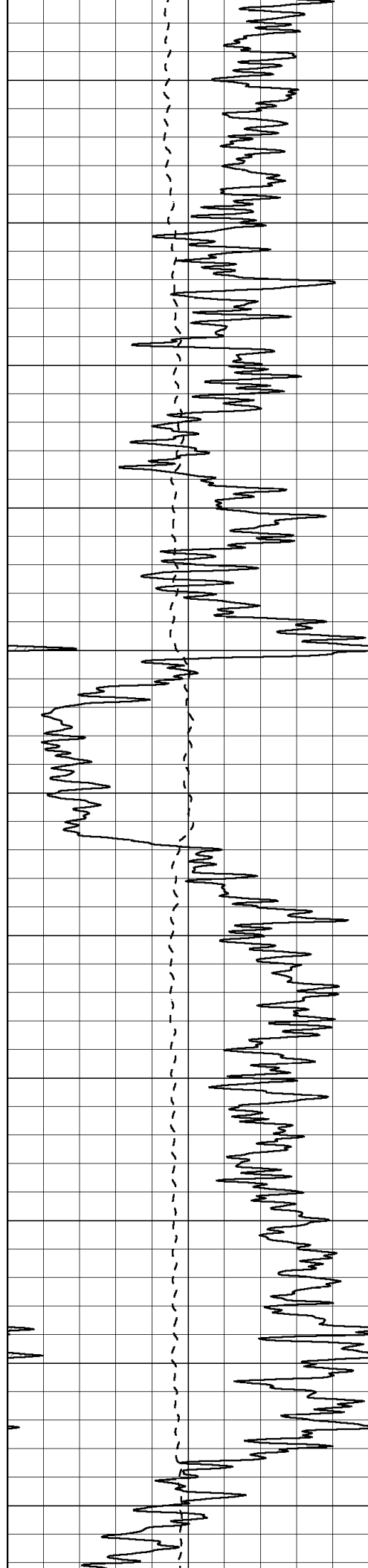
0	Deep Induction (Ohm-m)	50
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1000	CILD (mmho/m)	0
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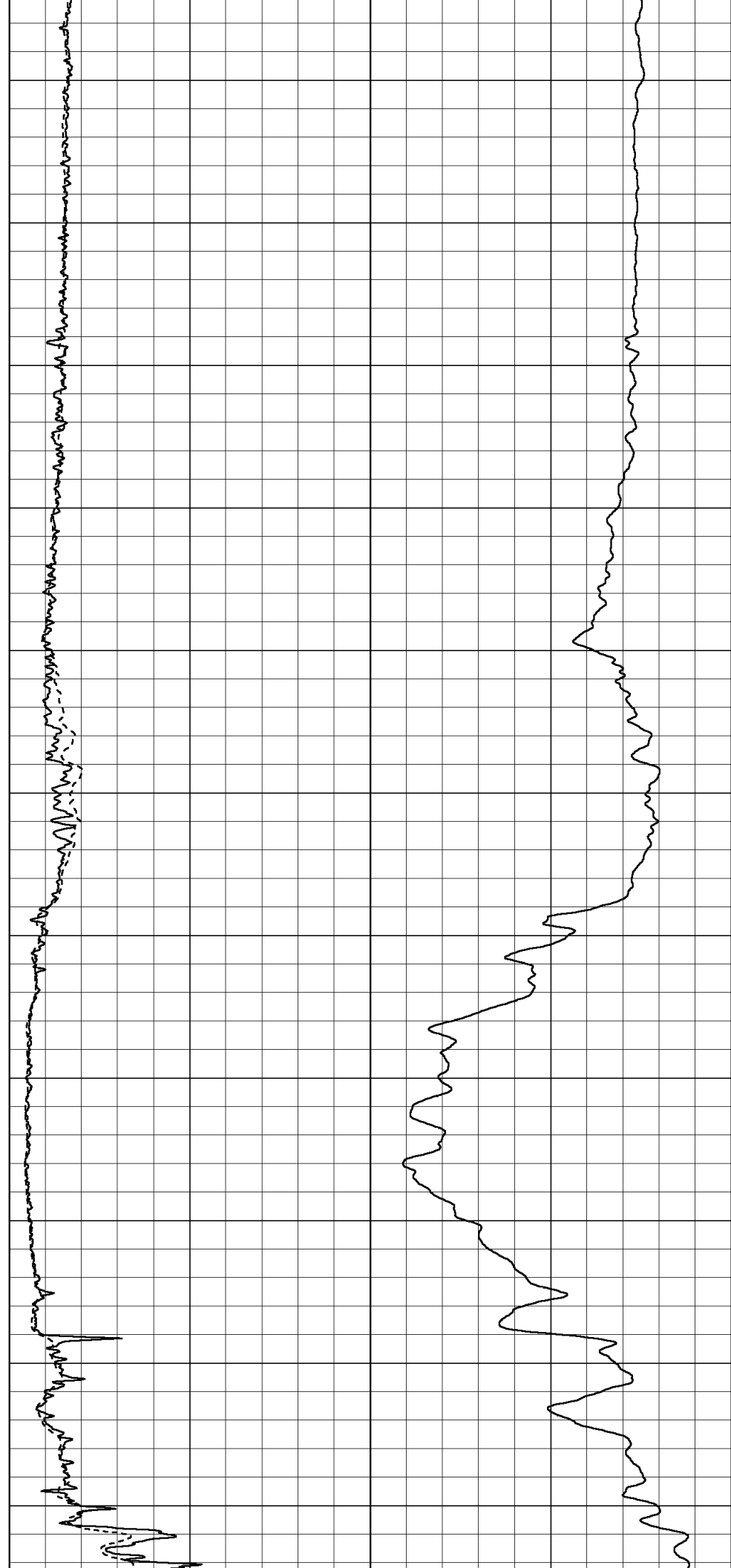
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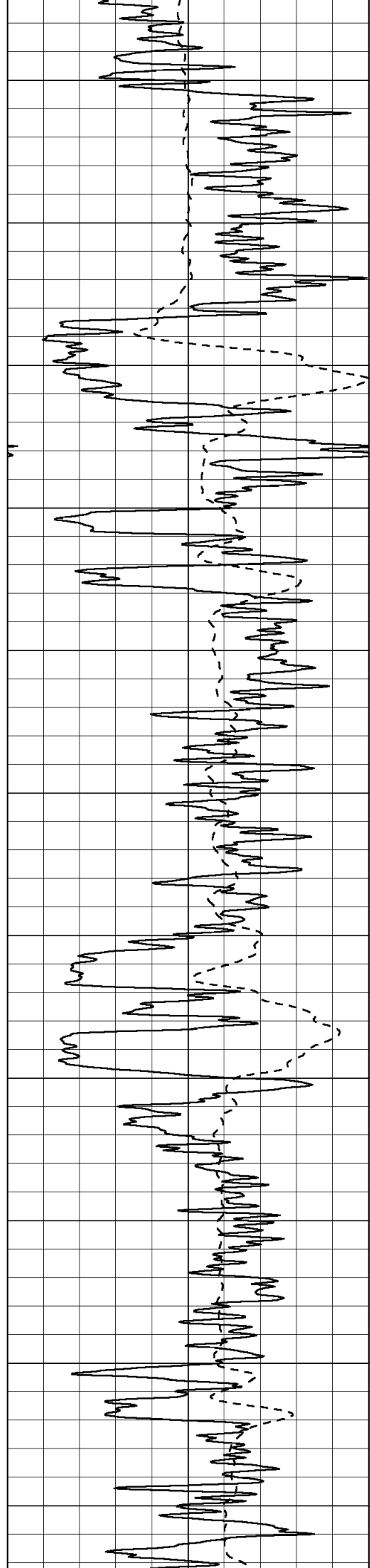
50	RLL3 X10 (Ohm-m)	500
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450
500
550
600
650
700
750
800
850
900
950





1000

1050

1100

1150

1200

1250

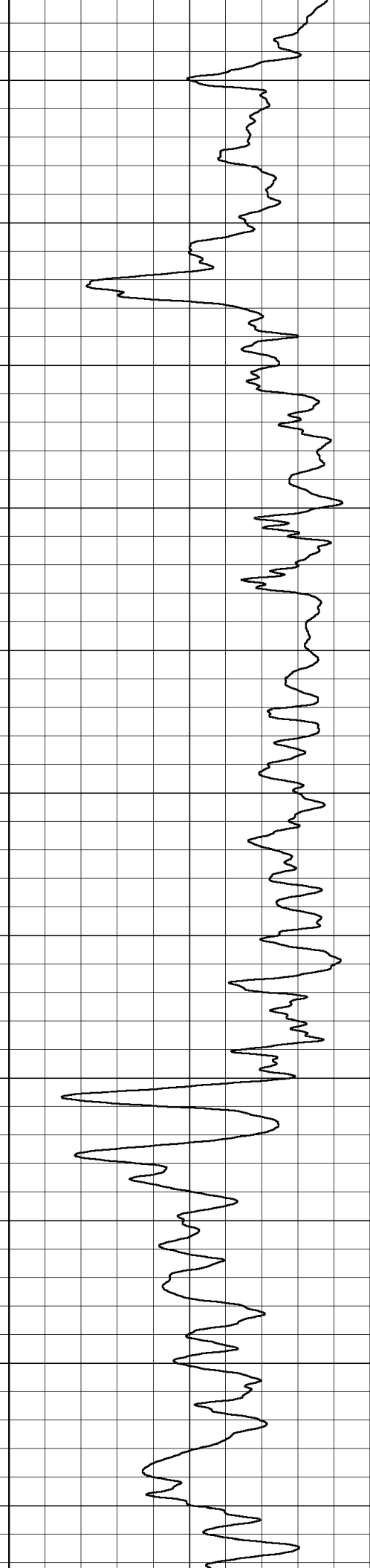
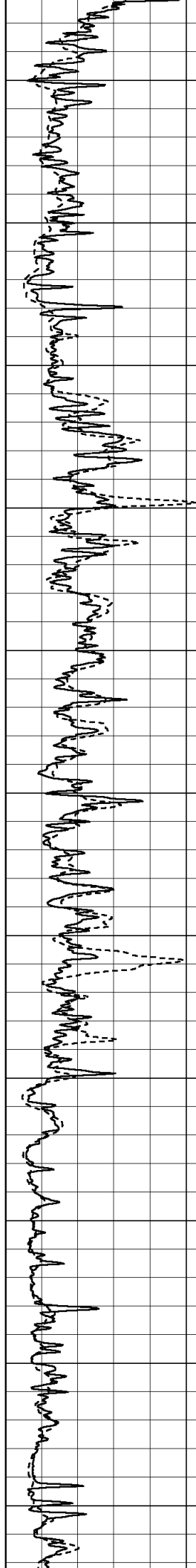
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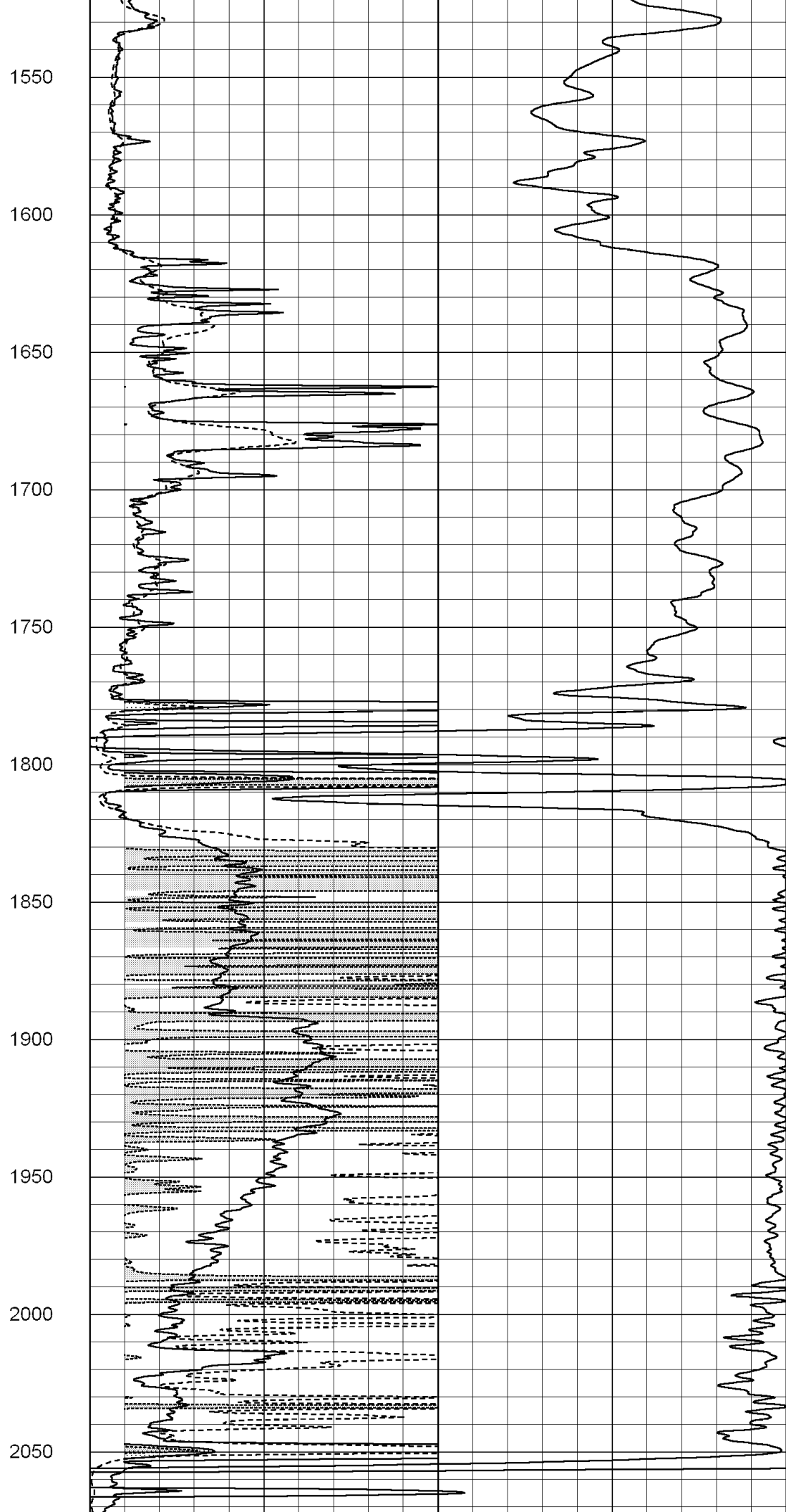
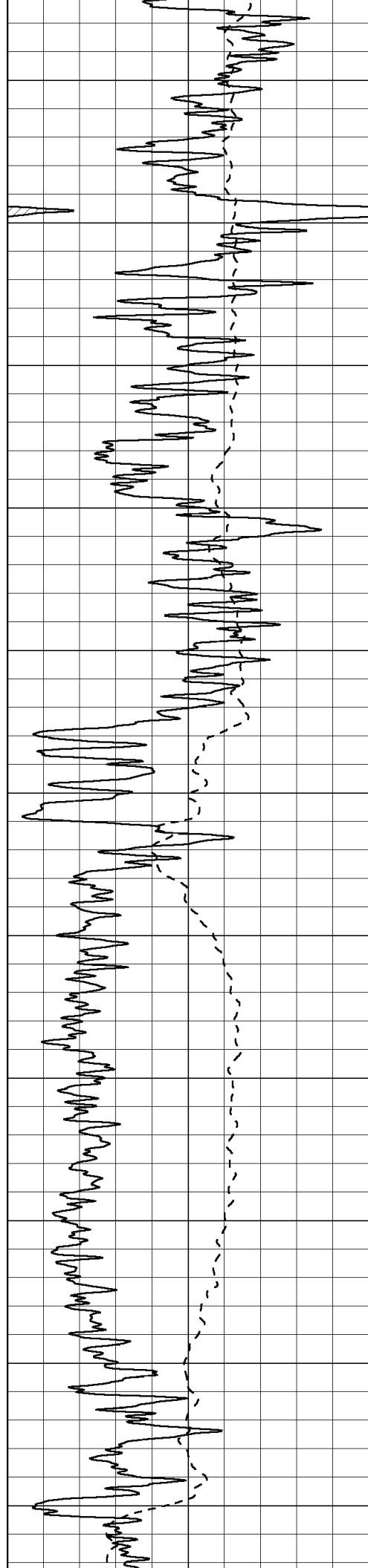
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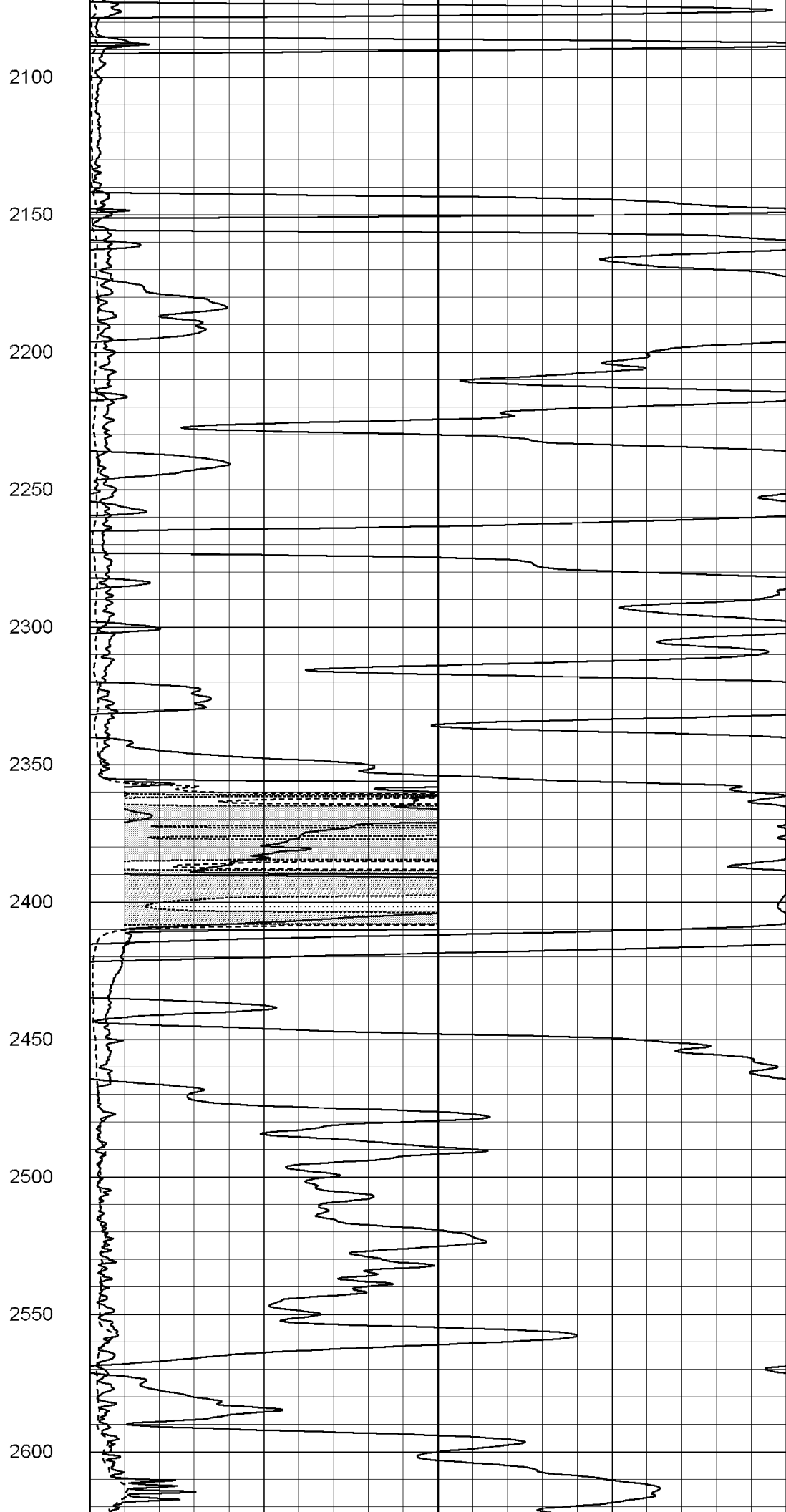
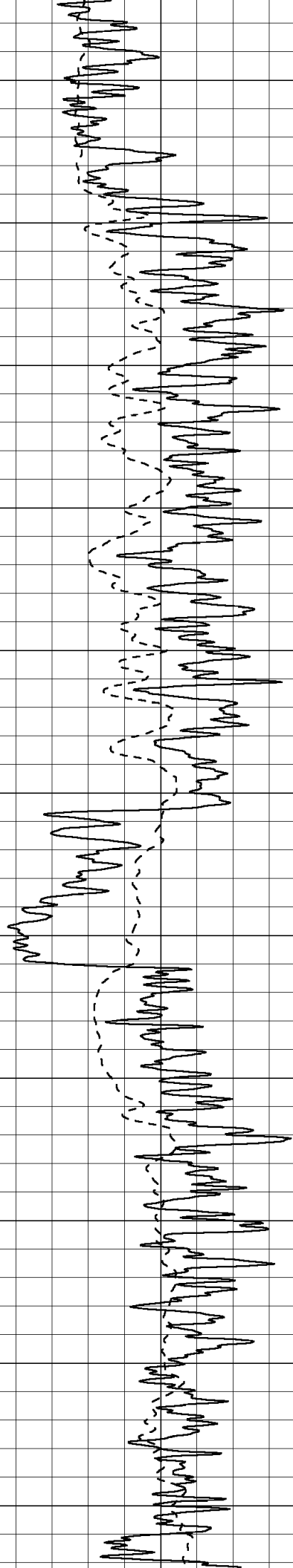
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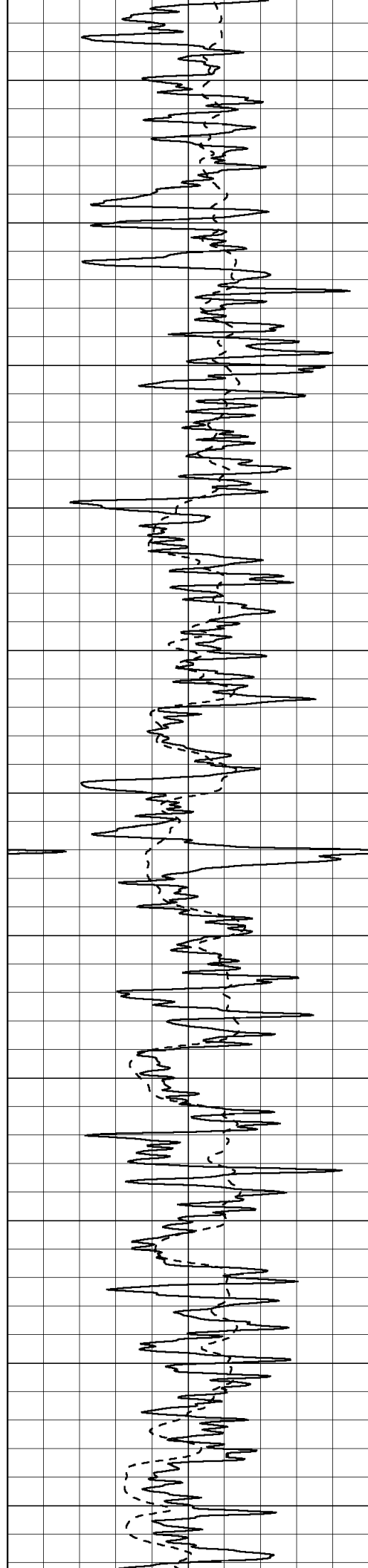
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1500









2650

2700

2750

2800

2850

2900

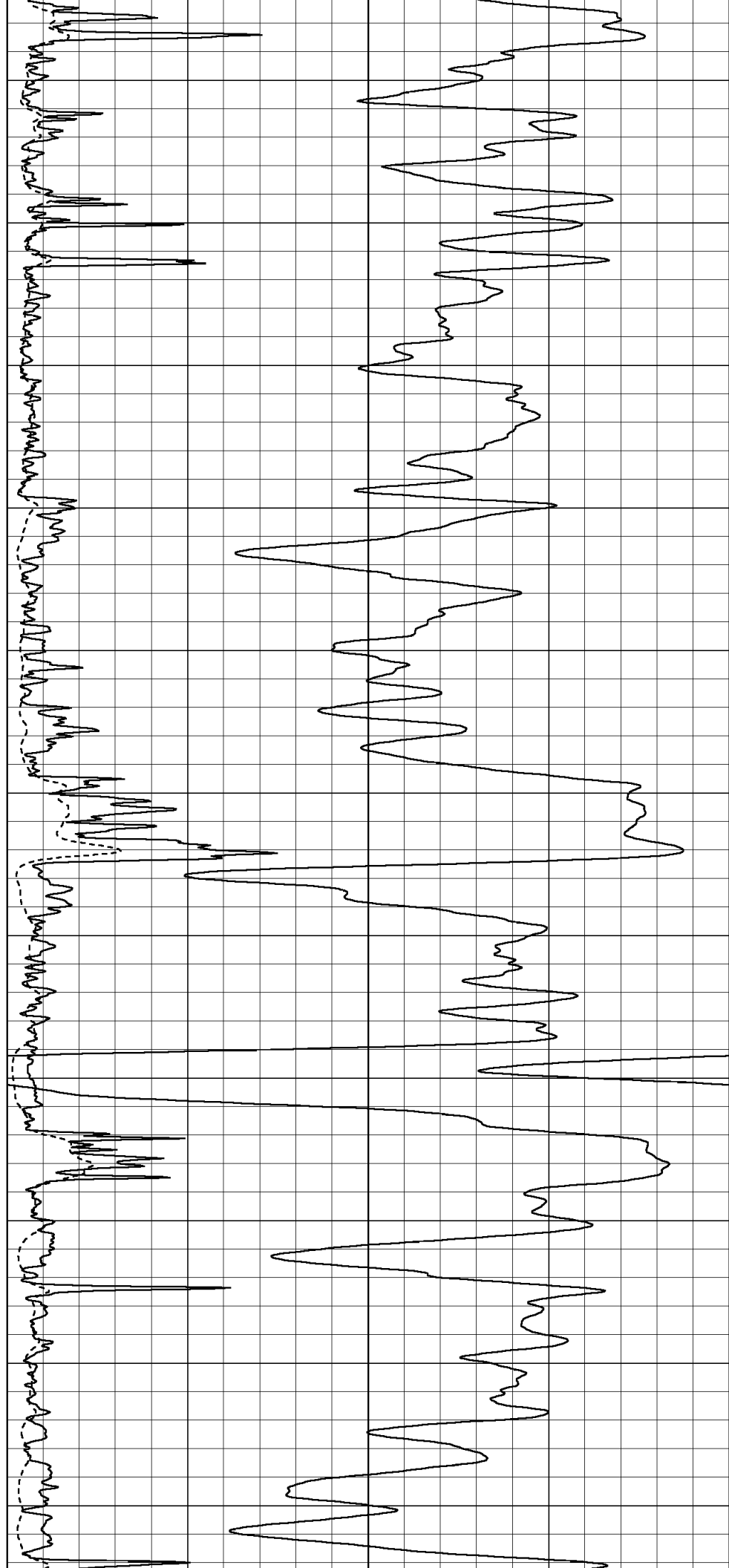
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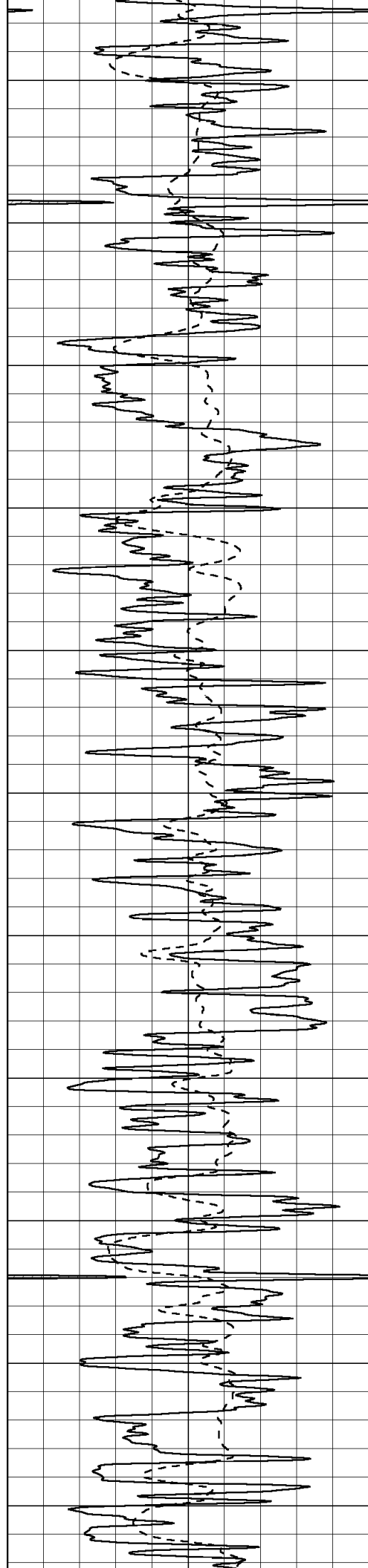
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3050

3100

3150





3200

3250

3300

3350

3400

3450

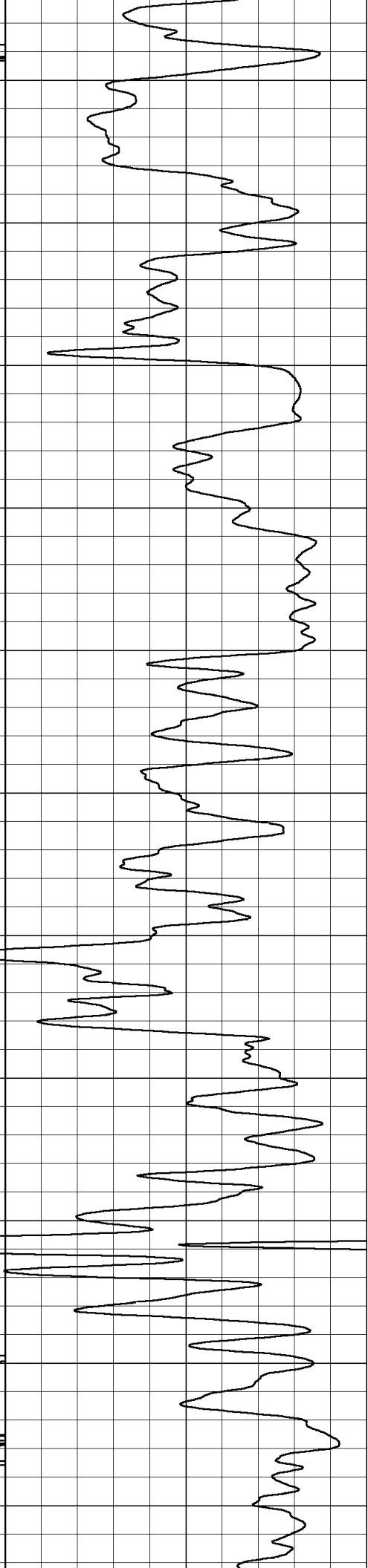
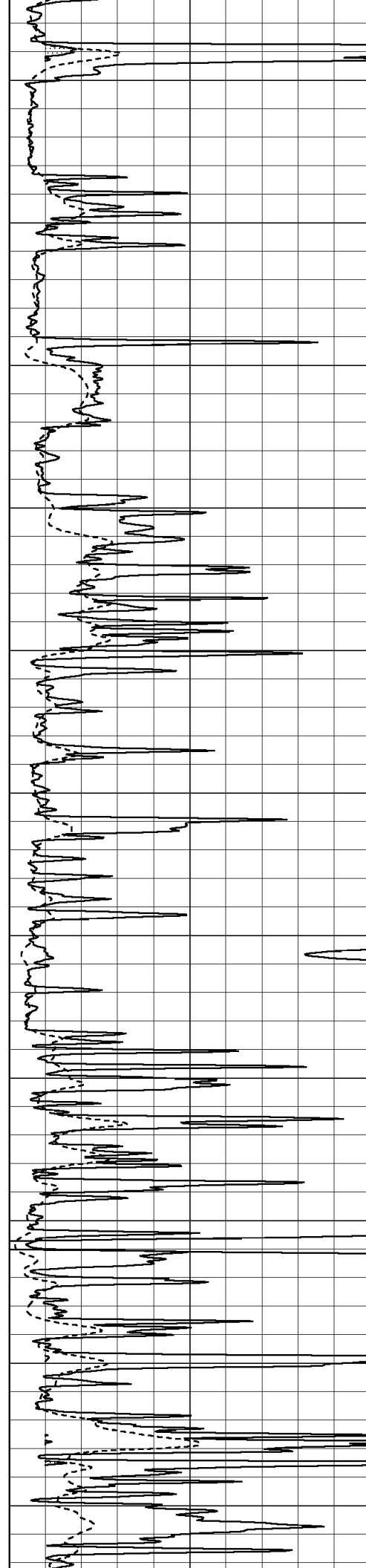
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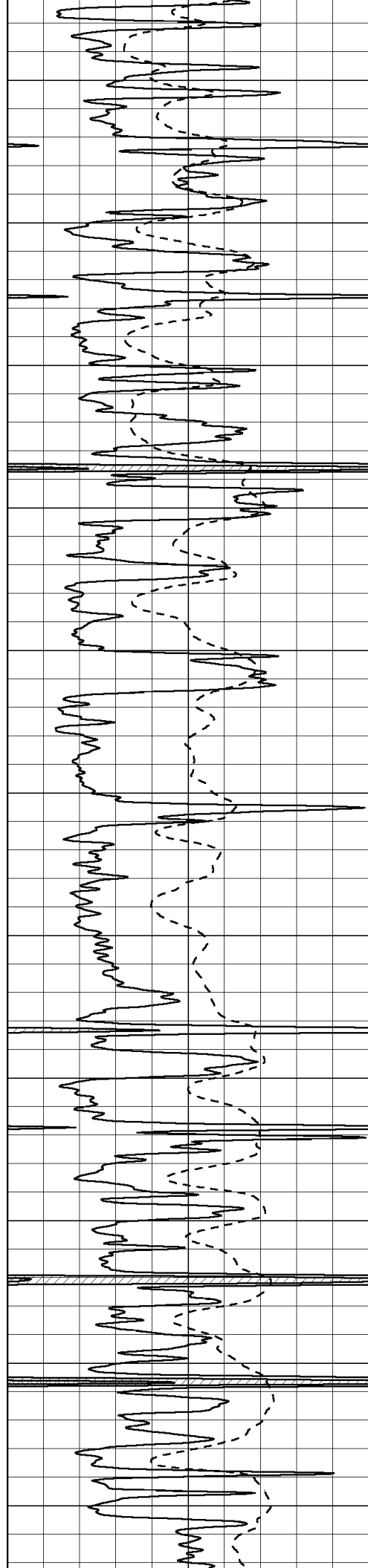
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3600

3650

3700





3750

3800

3850

3900

3950

4000

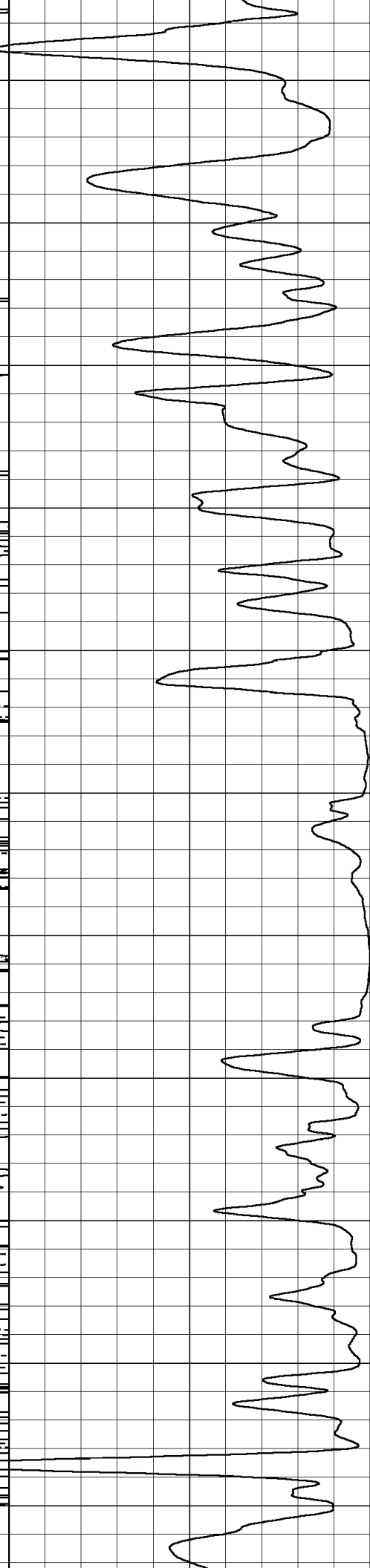
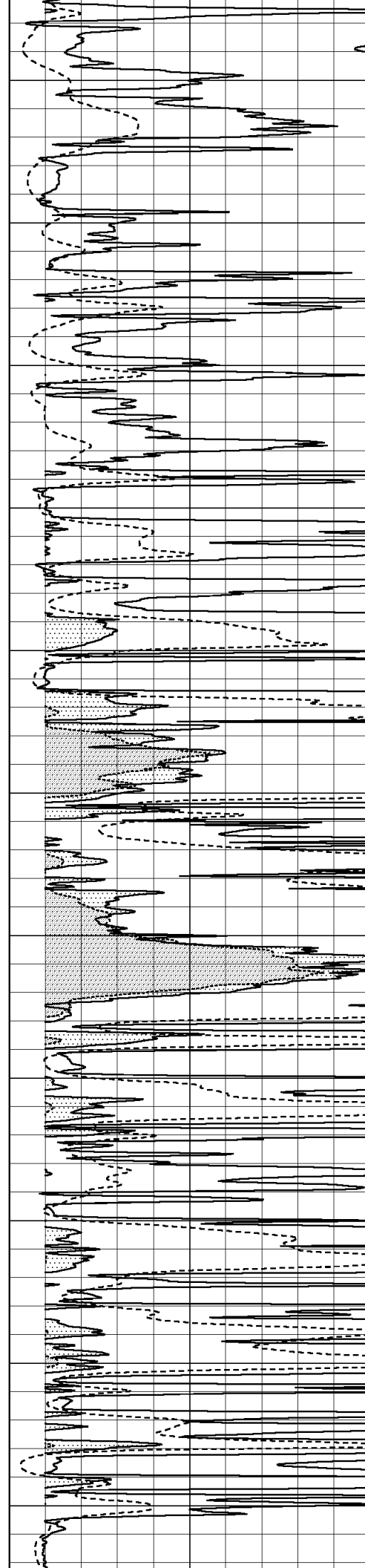
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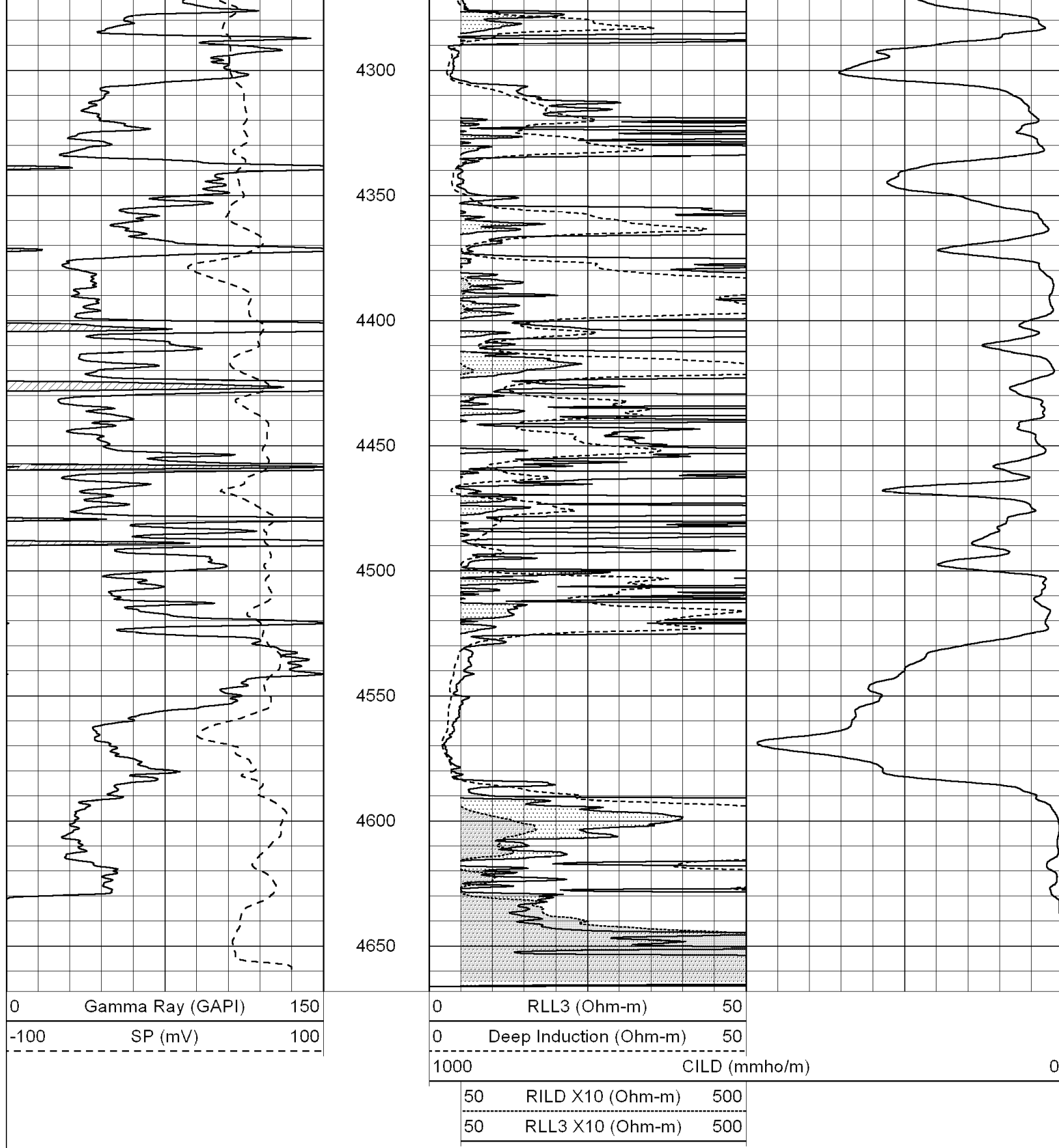
4100

4150

4200

4250



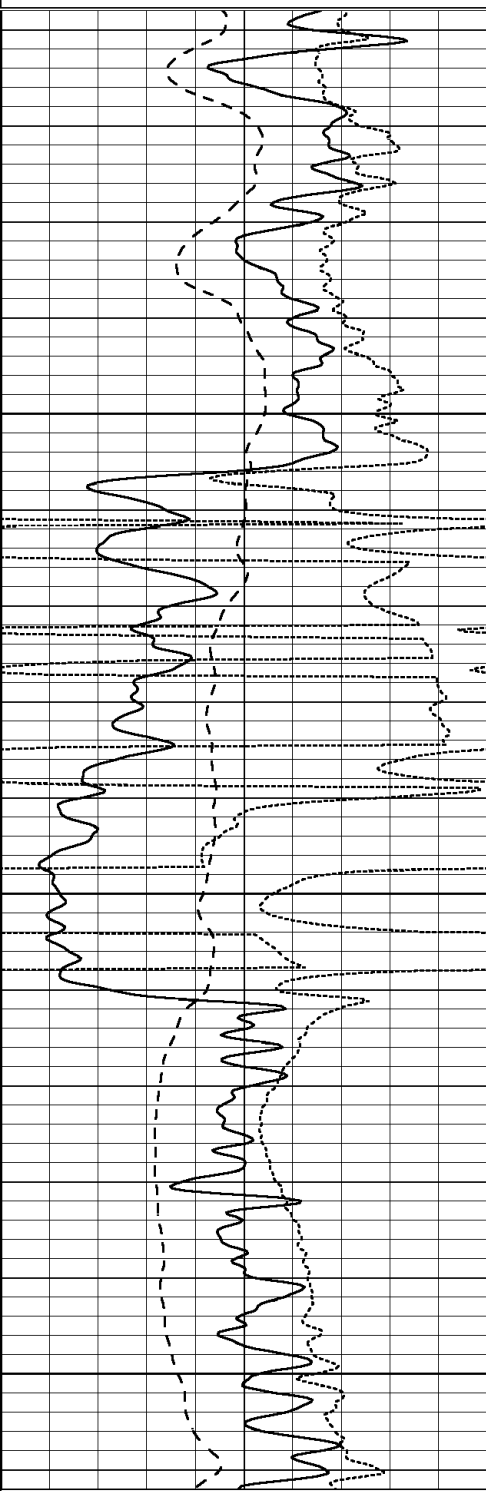


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MAIN SECTION

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

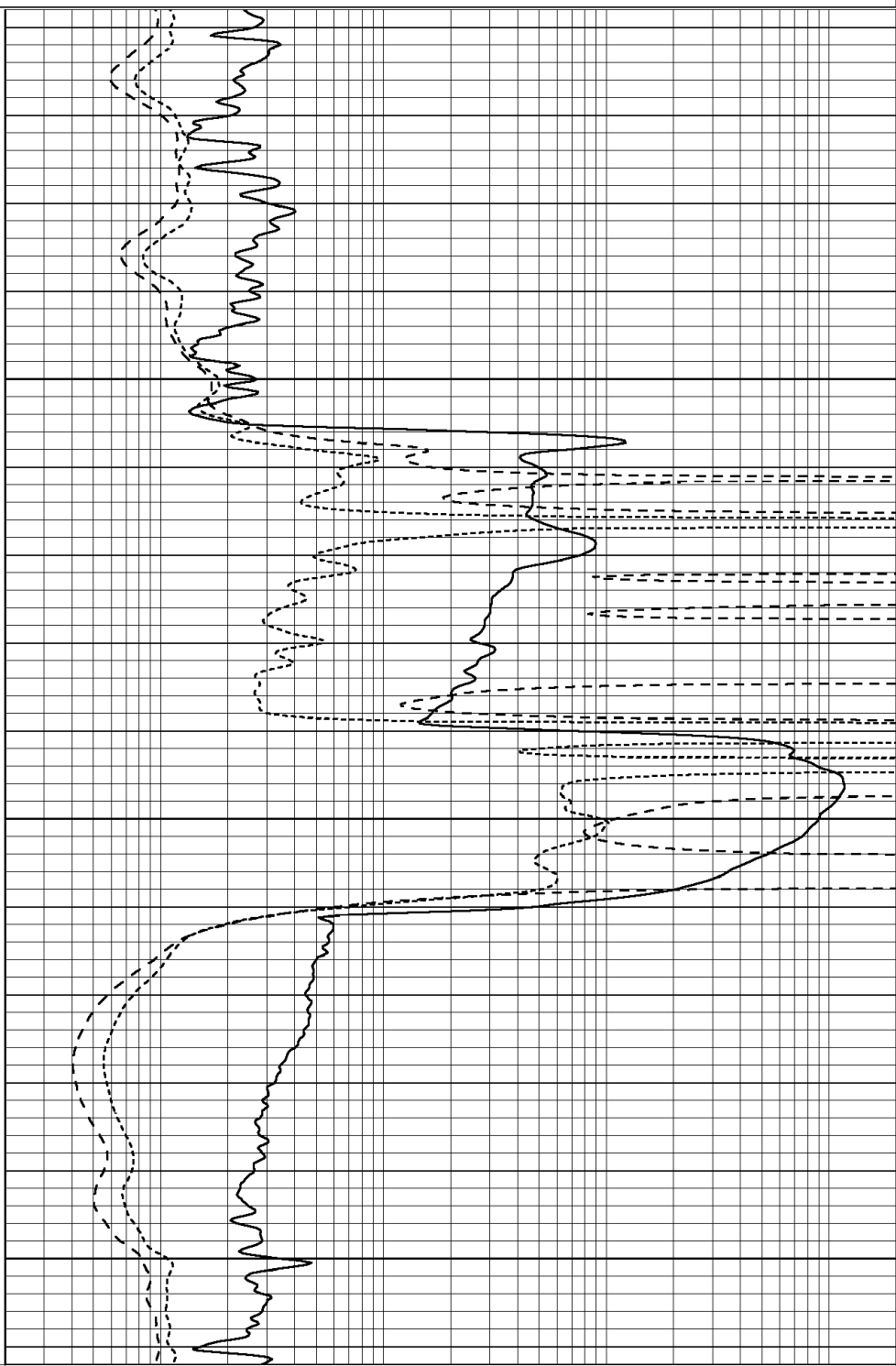
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



2350

2400

2450



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

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





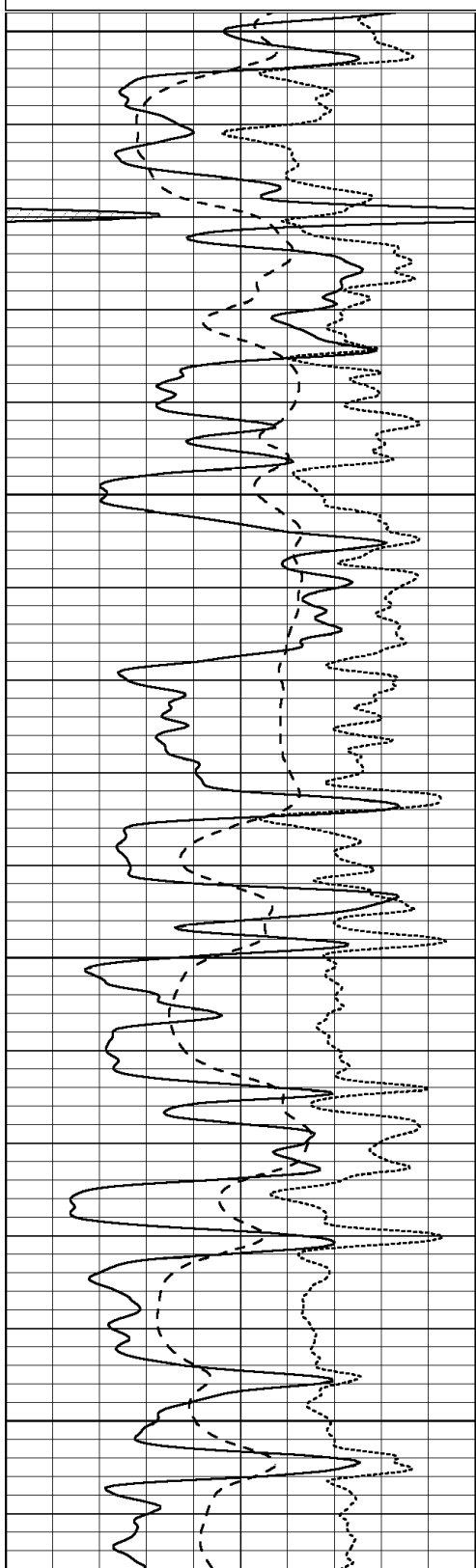
Hays,
Kansas

MAIN SECTION

Database File: 004792ddn.db
Dataset Pathname: pass3.A
Presentation Format: dil
Dataset Creation: Wed Feb 03 00:50:48 2010
Charted by: Depth in Feet scaled 1:240

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

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

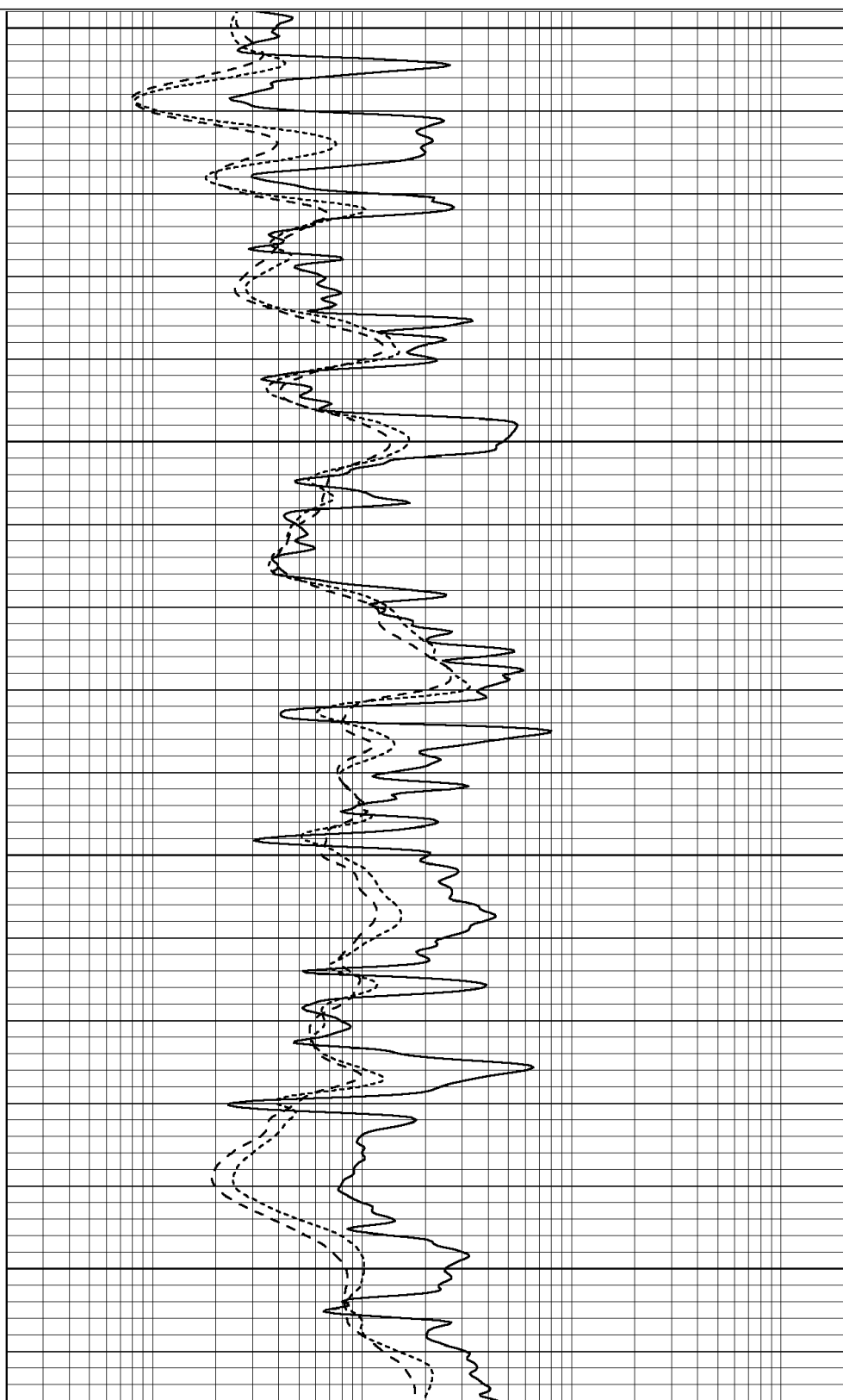


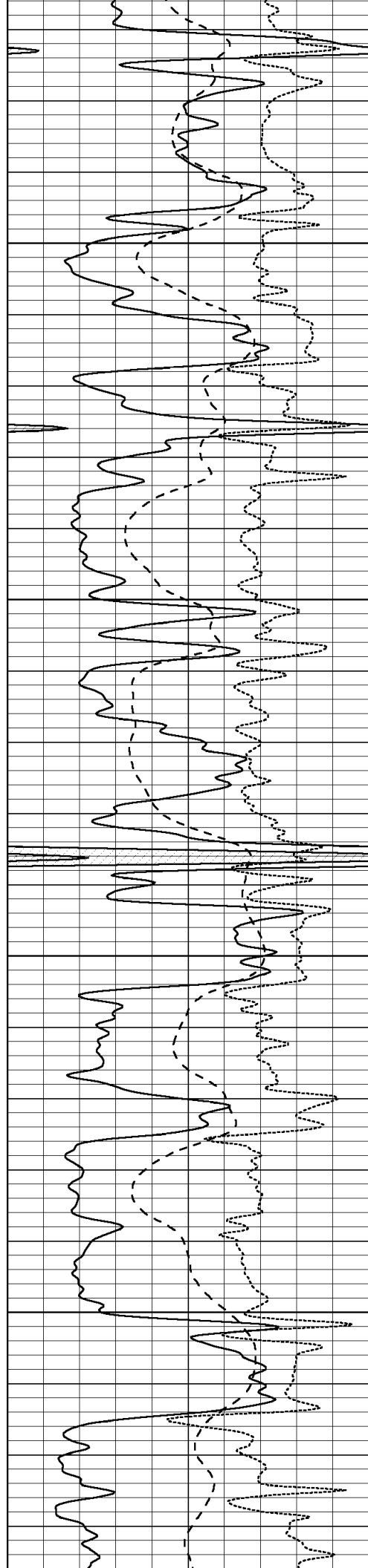
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3650

3700

3750



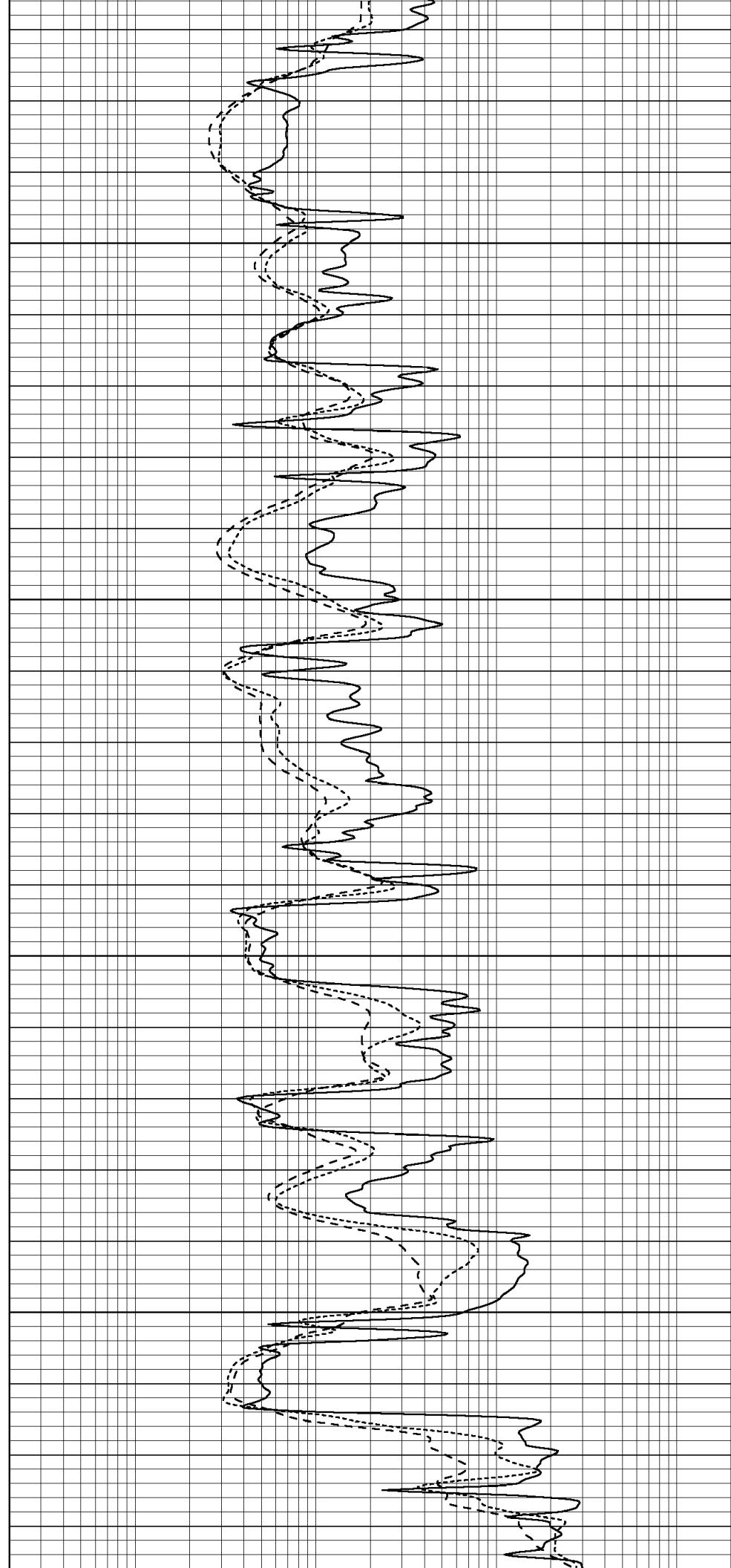


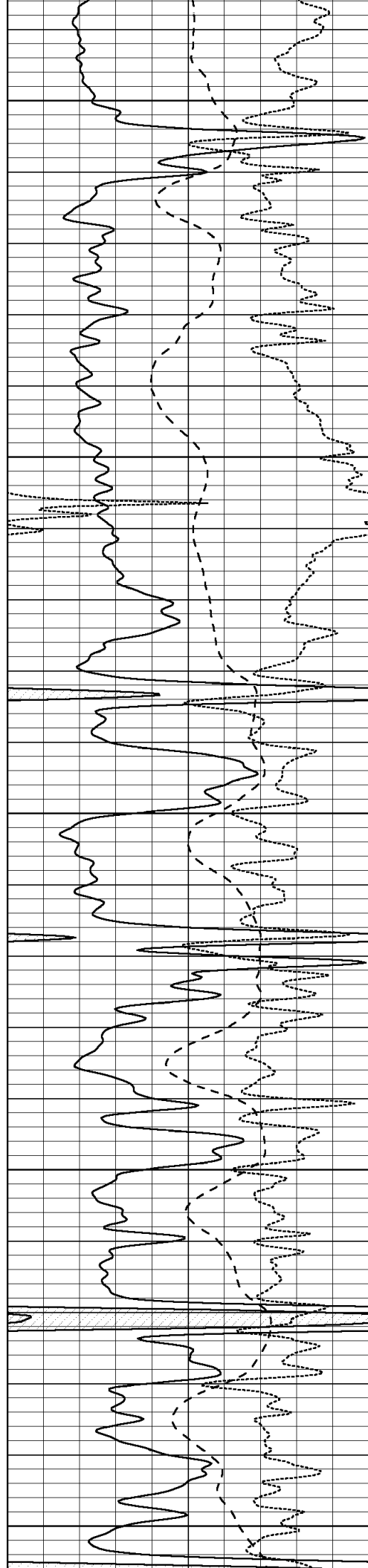
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3850

3900

3950





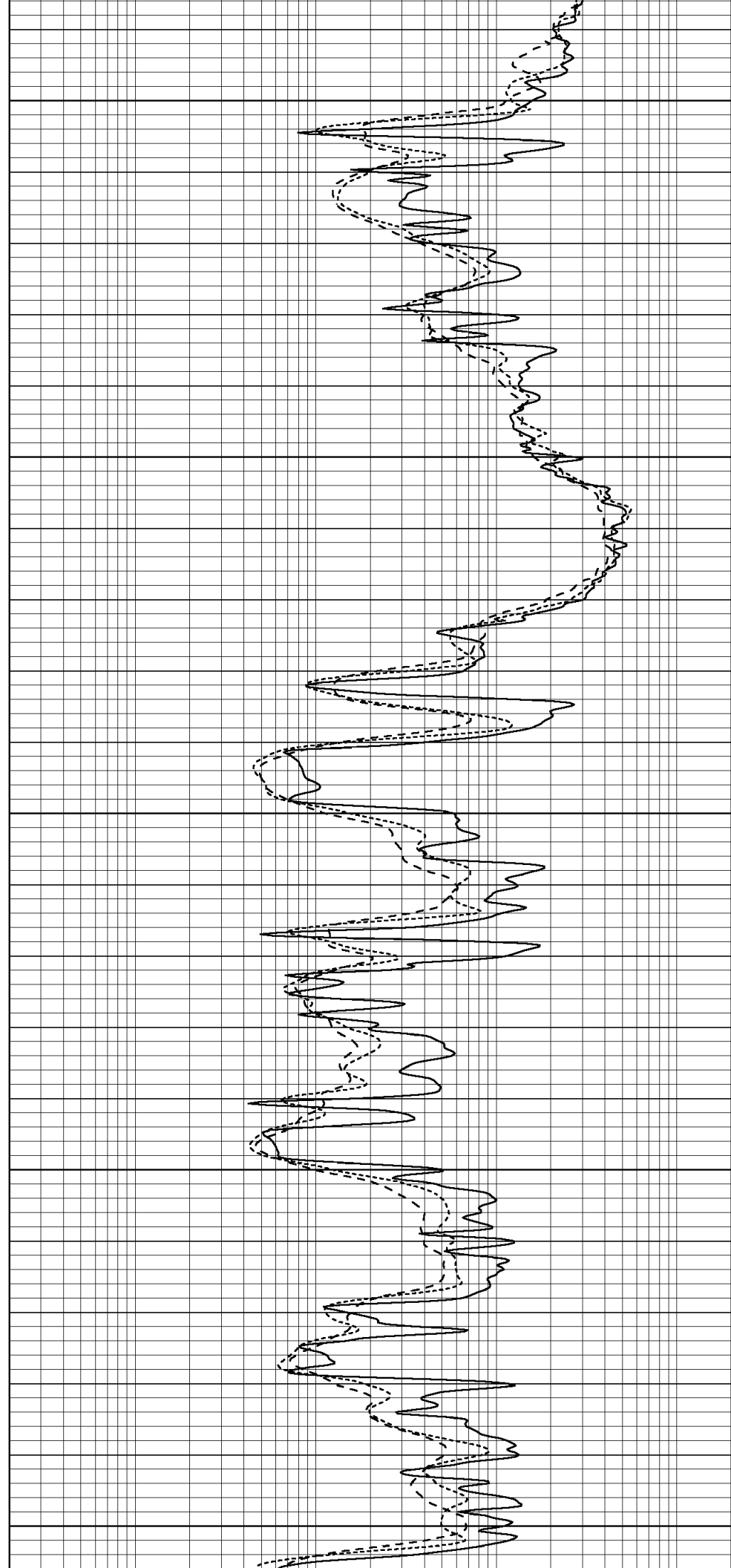
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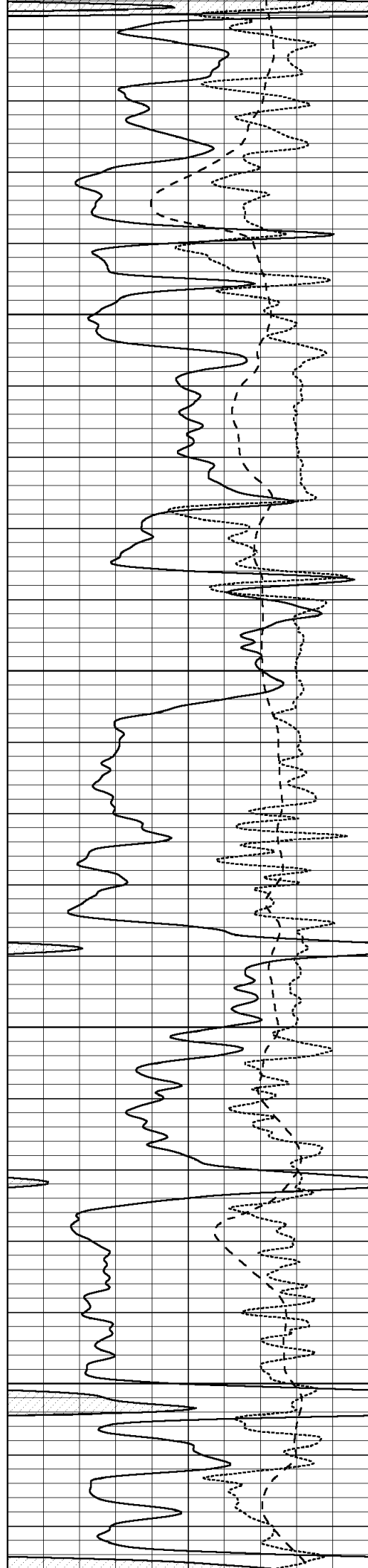
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4100

4150

4200



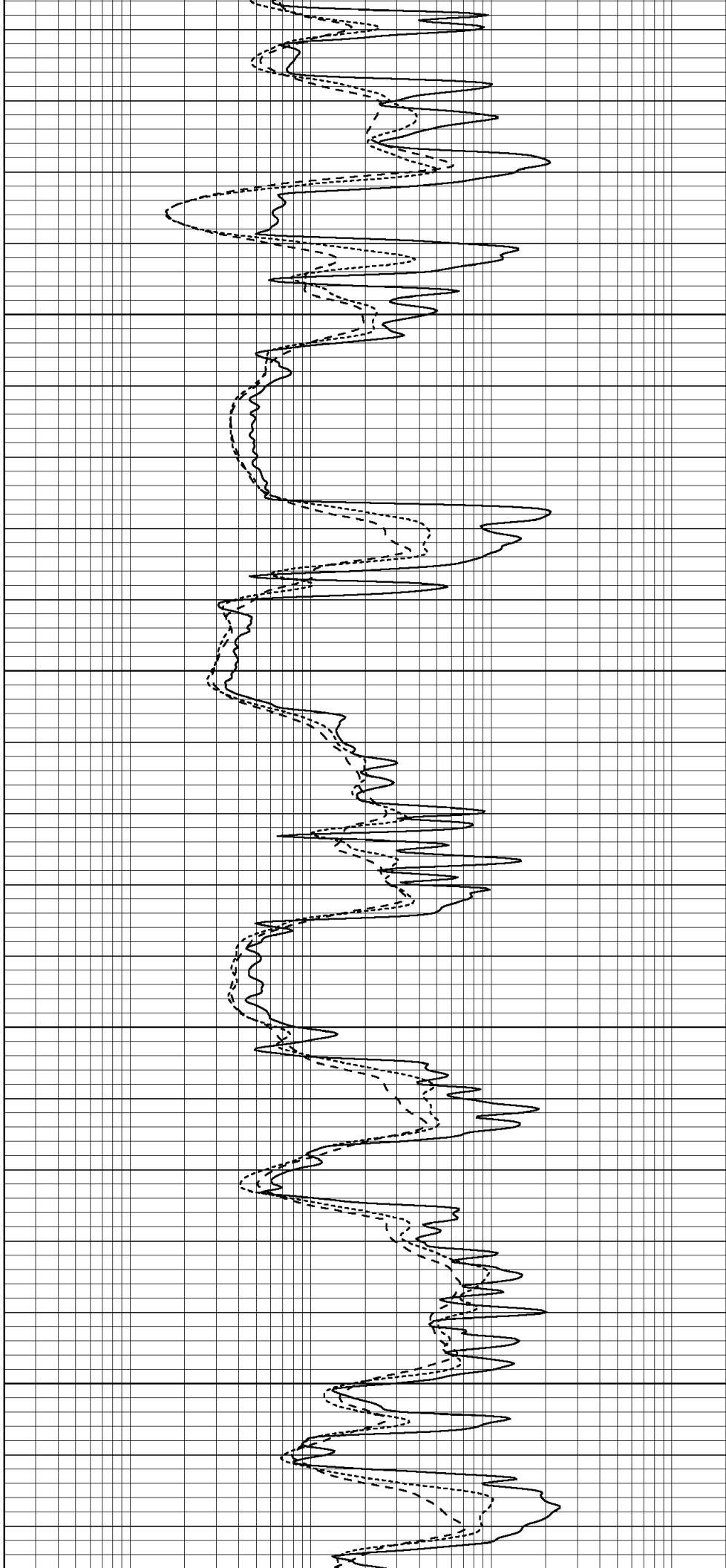


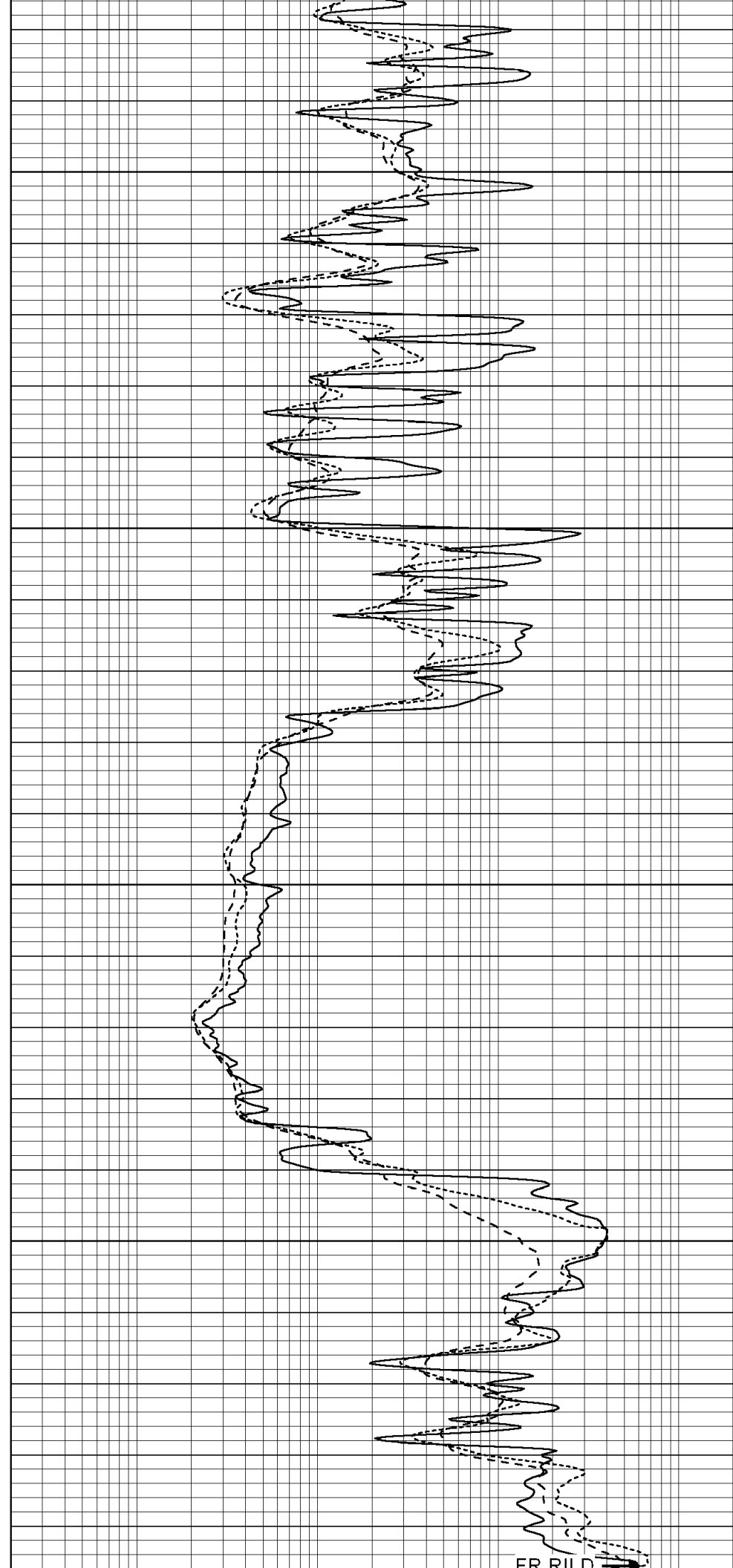
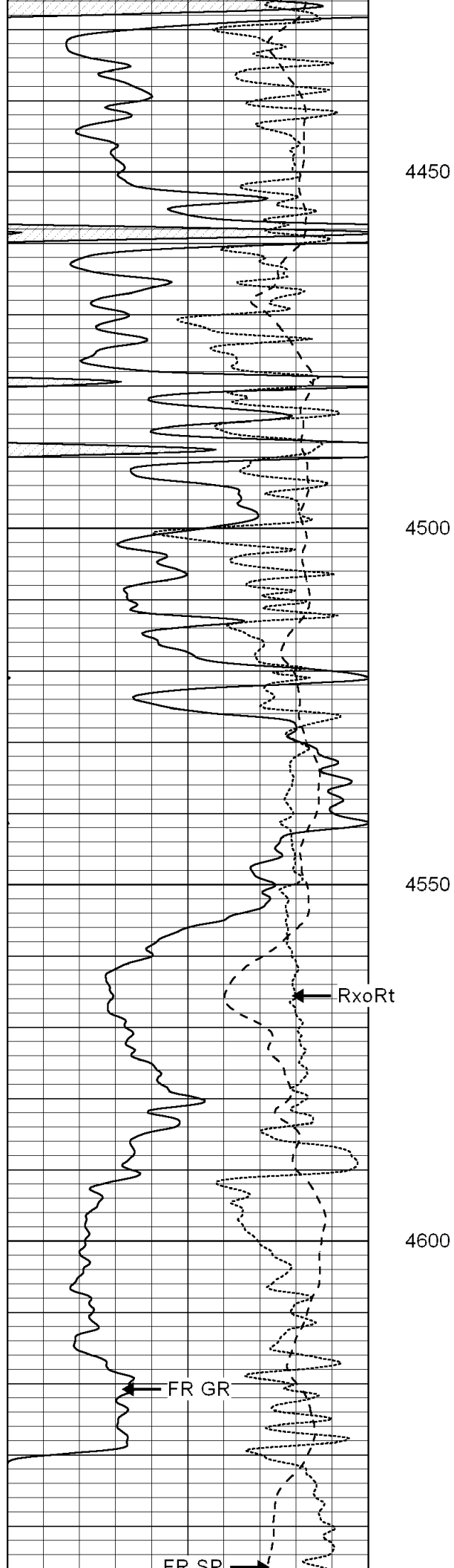
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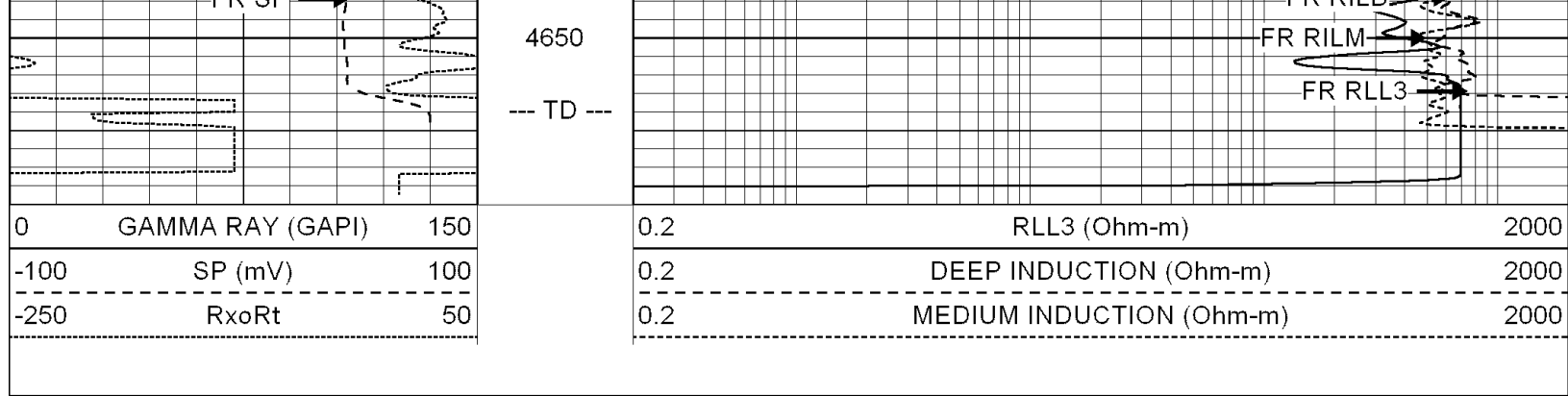
4300

4350

4400







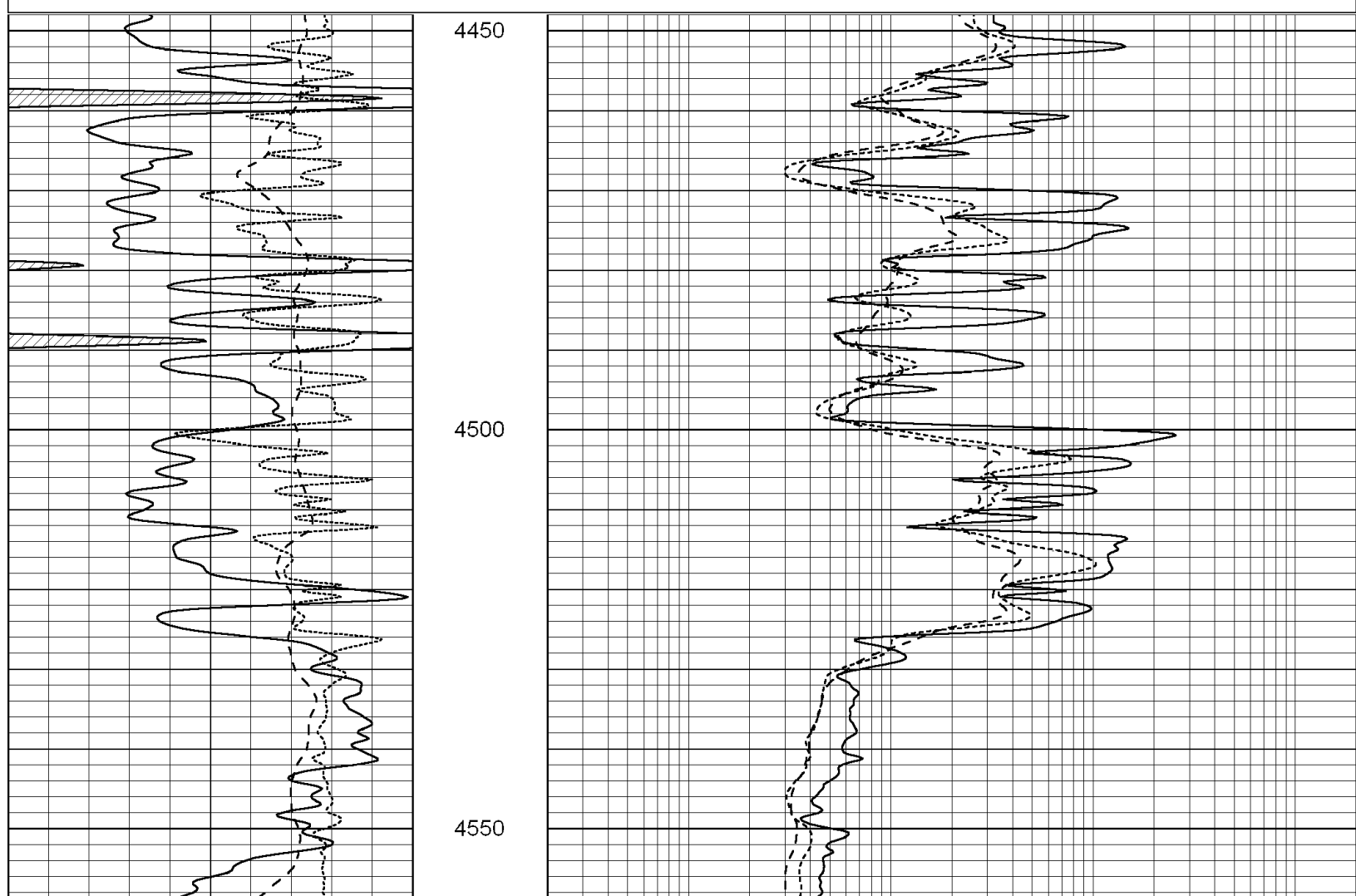


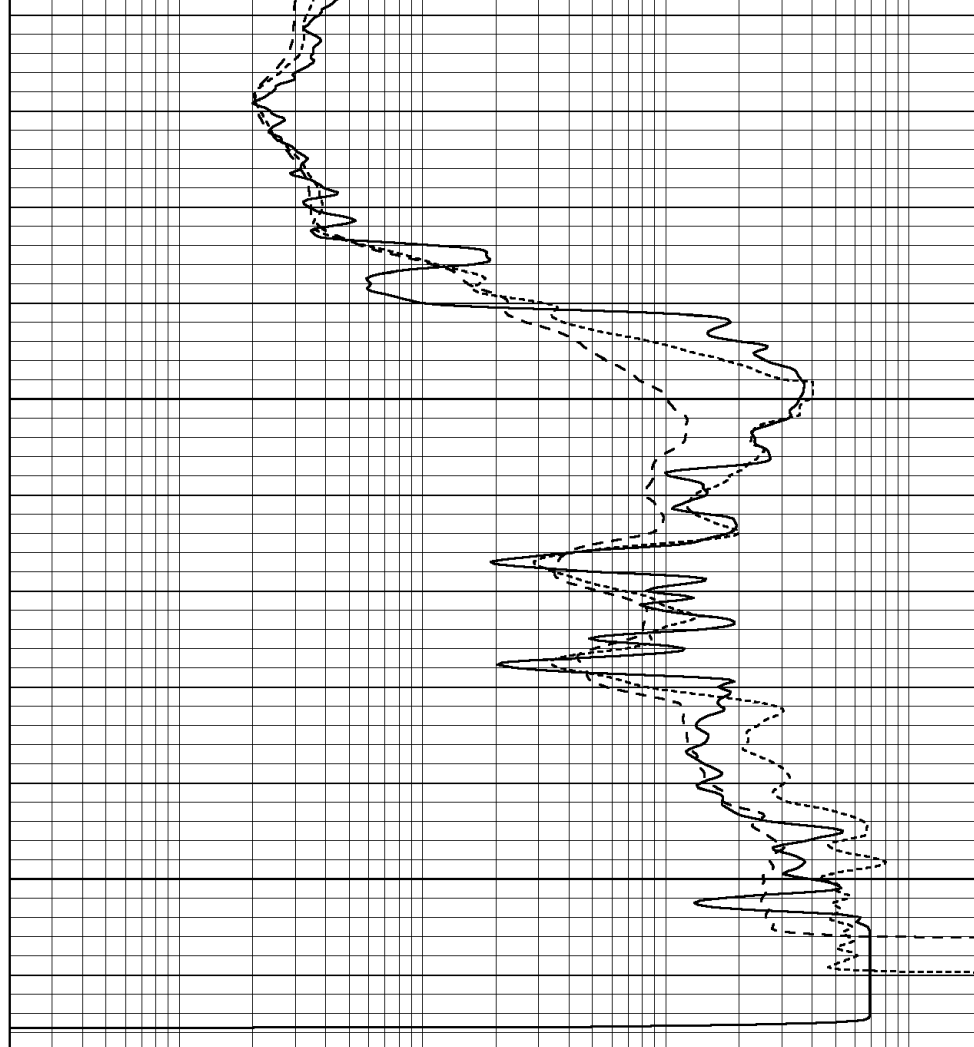
SUPERIOR
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REPEAT SECTION

Database File: 004792ddn.db
 Dataset Pathname: pass2.1A
 Presentation Format: dil
 Dataset Creation: Wed Feb 03 00:47:55 2010
 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





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

```
Database File:      004792ddn.db
Dataset Pathname:  pass3.A
Dataset Creation:   Wed Feb 03 00:50:48 2010
```

Serial-Model:
Performed:

DIL5-GEAR
Tue Feb 02 22:50:08 2010

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	550.000	-2.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	540.000	-6.000
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

Serial: 002 Model: PRB
Performed Tue Jul 03 11:12:28 2007

Litho Density Calibration						
	Background		Magnesium		Aluminum	
						Sandstone
Window 1	1059.5		9172.0		2859.6	10210.6
Window 2	976.0		7793.2		2486.1	8515.6
Window 3	689.8		2930.5		1159.0	3096.2
Window 4	231.9		237.2		231.1	234.0
Long Space	0.0		6817.1		1510.1	7539.6
Short Space	1.6		1758.1		1188.6	1898.8
Rho			1.7100		2.5960	1.3800
Pe					2.5700	1.5500
Rib Angle	: 45.4		Rib Slope	: 1.015	Density/Spine Ratio	: 0.569
Spine Angle	: 75.4		Spine Slope	: 3.850	Spine Intercept	: -19.9
Caliper						
	Readings		Reference			
Low Ref	2.8		8.3			
High Ref	4.8		14.0			
	Gain: 2.8				Offset: 0.5	
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:		Tue Feb 02 10:33:27 2010				
Calibrator Value:		1.0		GAPI		
Background Reading:		0.0		cps		
Calibrator Reading:		1.0		cps		
Sensitivity:		0.6000		GAPI/cps		