



DUAL INDUCTION
LOG

Company		WHITE EXPLORATION, INC.	
Well	LAWRENCE #2		
Field	WHELAN WEST		
County	BARBER	State	KANSAS
Location:		API # : 15-007-24445-0000	
Permanent Datum		GROUND LEVEL Elevation 1514	
Log Measured From		KELLY BUSHING 13' A.G.L	
Drilling Measured From		KELLY BUSHING	
SEC 25 TWP 31S RGE 12W		Elevation K.B. 1527 D.F. 1525 G.L. 1514	
660' FSL & 660' FEL SE - SE		CDL/CNL/PE MEL/SON	
Date	10/17/22		
Run Number	ONE		
Depth Driller	4580		
Depth Logger	4582		
Bottom Logged Interval	4580		
Top Log Interval	00		
Casing Driller	8 5/8" @ 394		
Casing Logger	394		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4.950 PPM	
Density / Viscosity	9.2/53		
pH / Fluid Loss	11.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10 @ 60F		
Rmf @ Meas. Temp	.825 @ 60F		
Rmc @ Meas. Temp	1.32 @ 60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.545 @ 121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:00 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	ANDY WHITE		

<<< Fold Here >>>

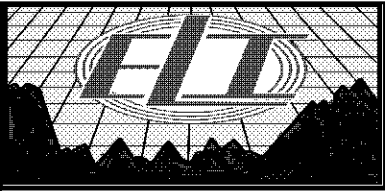
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:

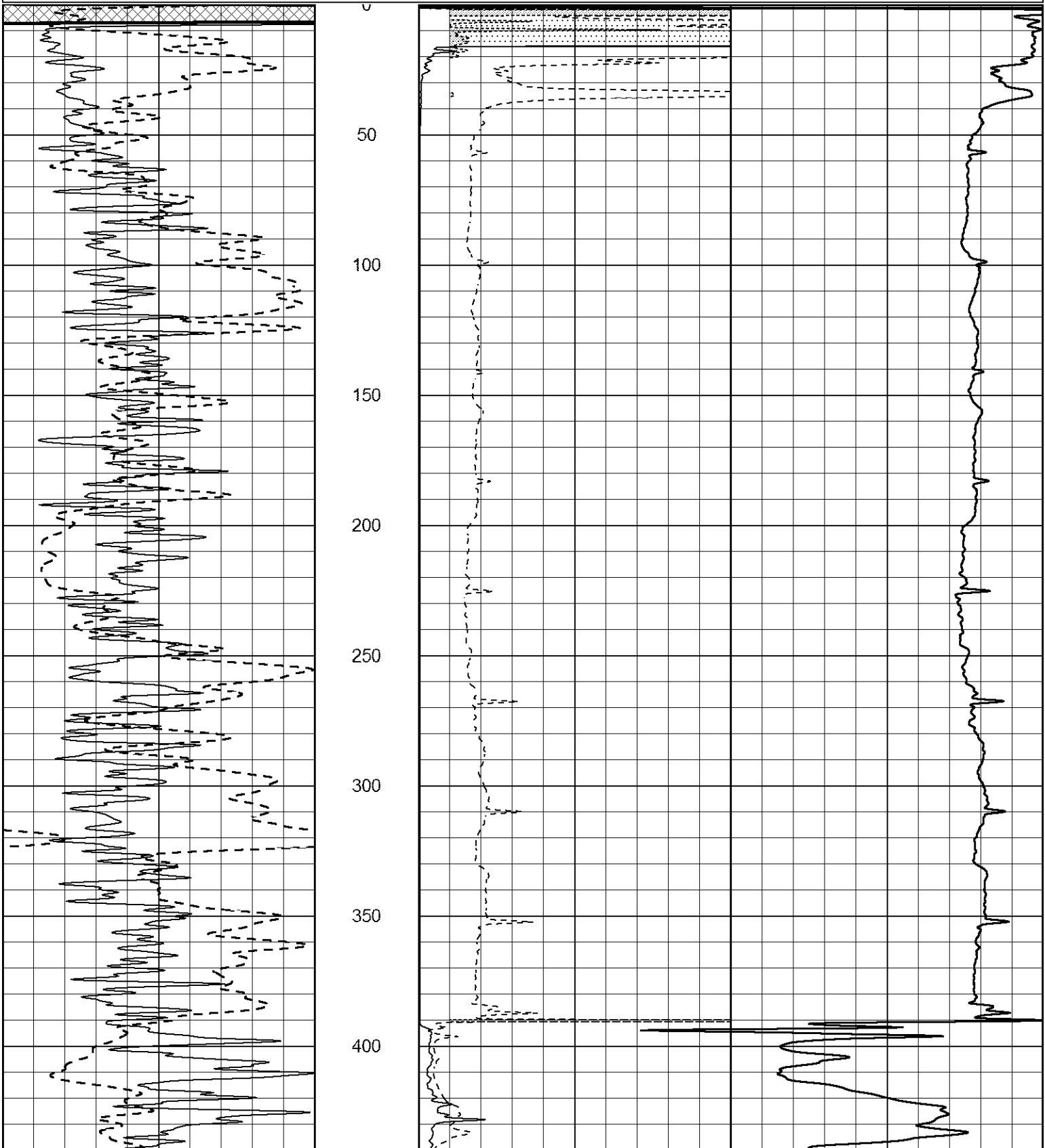
TWO MILES NORTH OF MEDICINE LODGE ON HIGHWAY 281, EAST ON WELL ROAD FOR 1/2 MILE,
ONE MILE SOUTH, EAST INTO

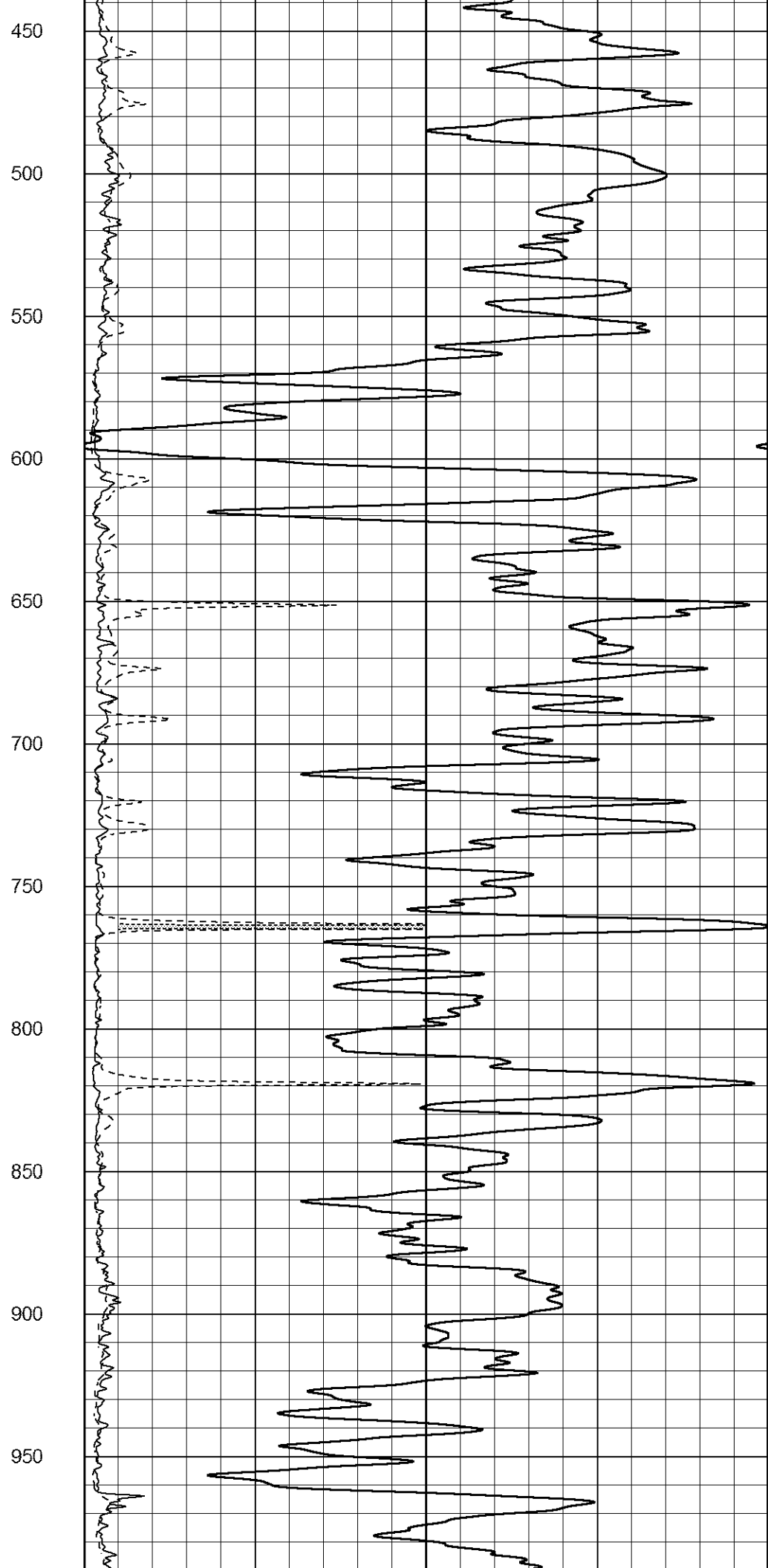
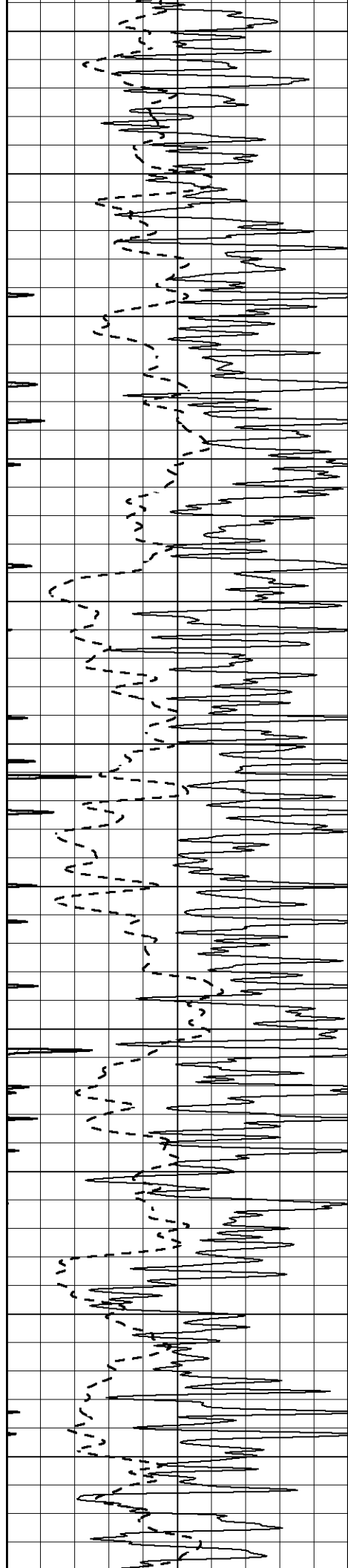


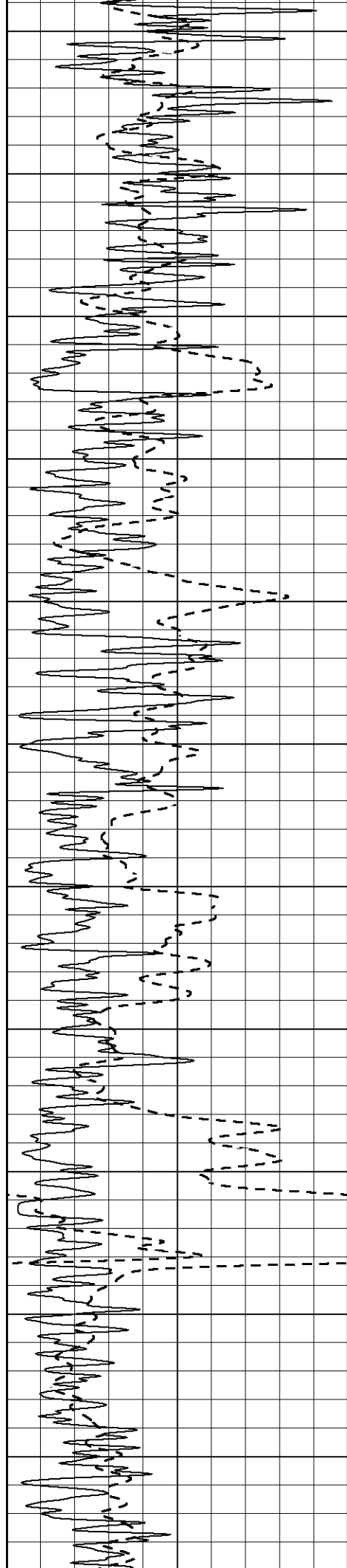
MAIN SECTION

Database File	7236pe.db
Dataset Pathname	pass4M
Presentation Format	_dil2
Dataset Creation	Tue Oct 18 01:10:41 2022
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500







1000

1050

1100

1150

1200

1250

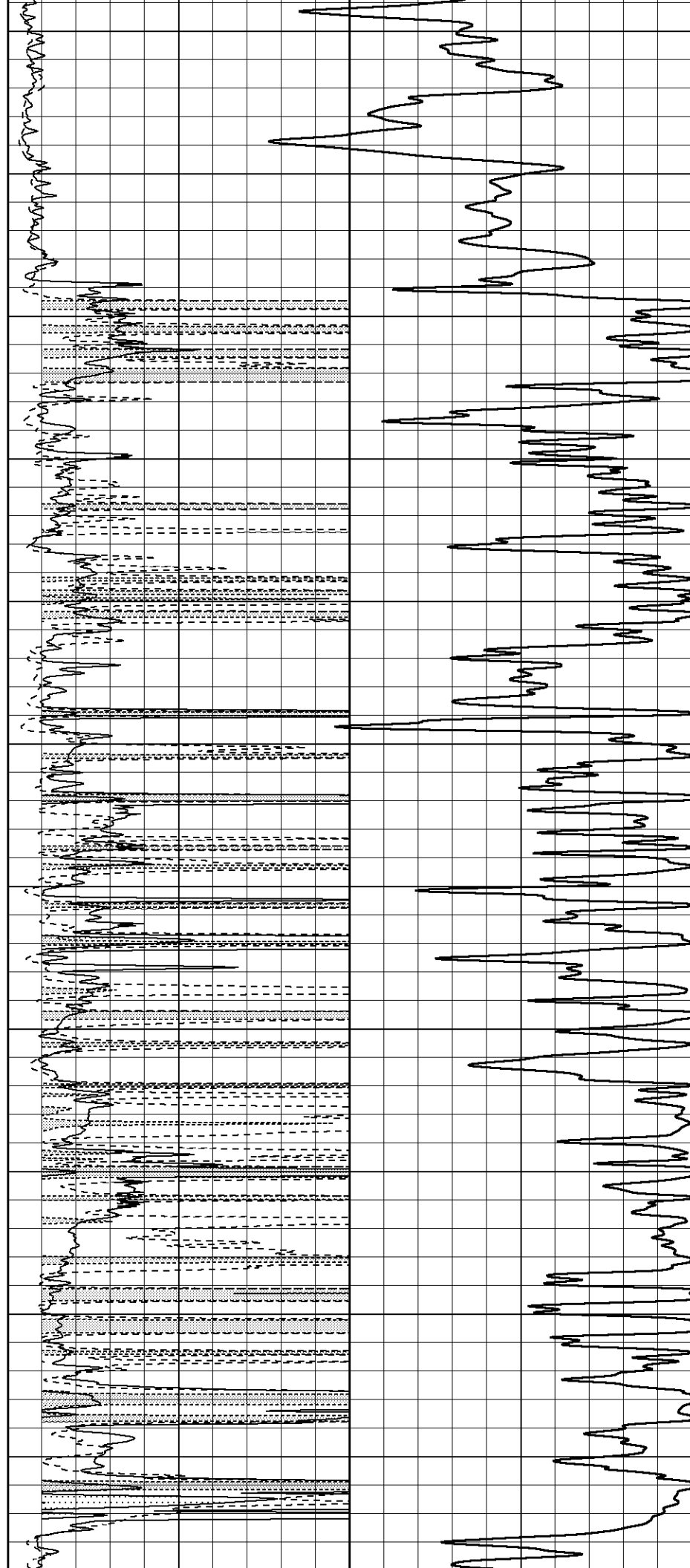
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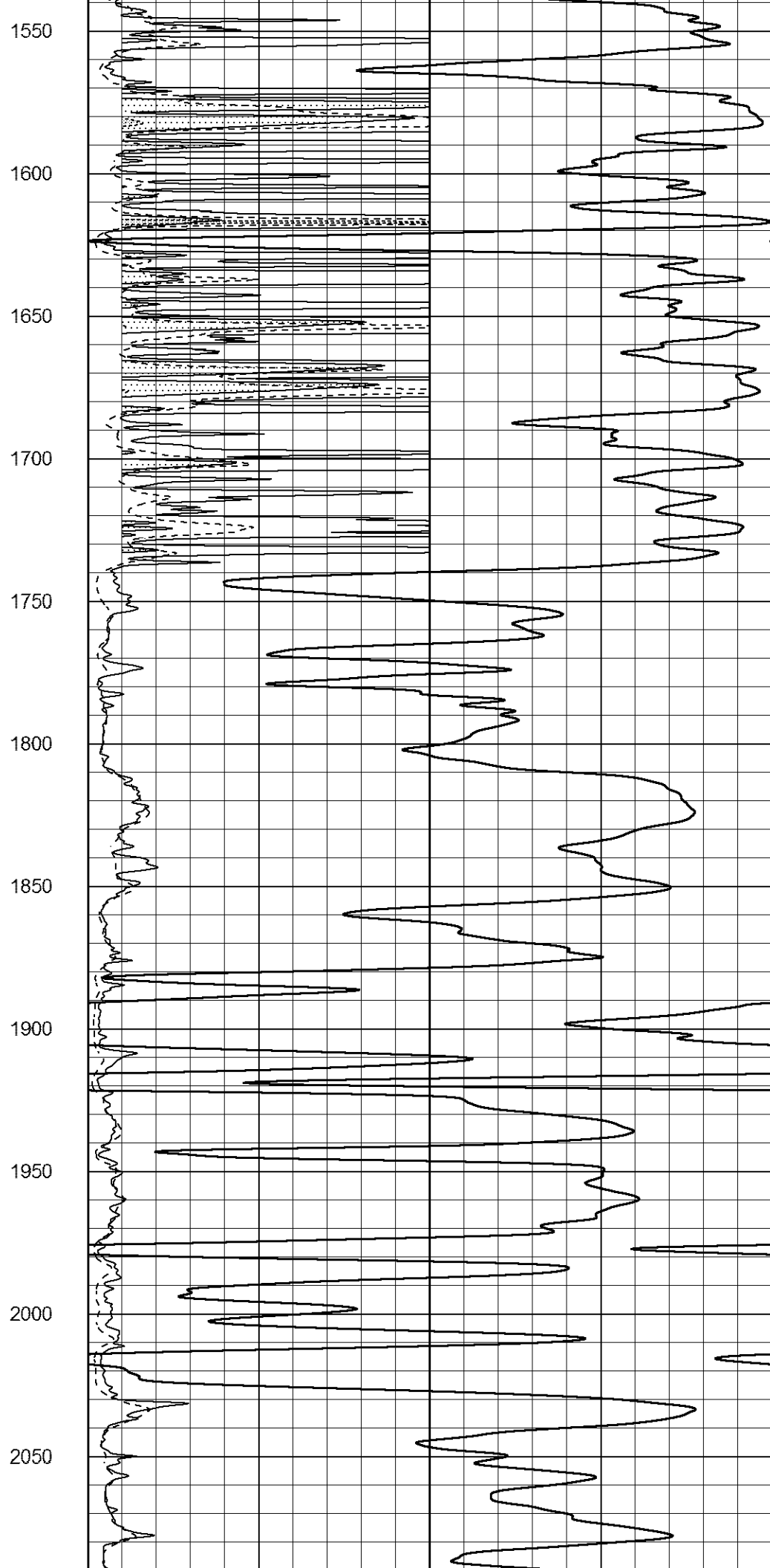
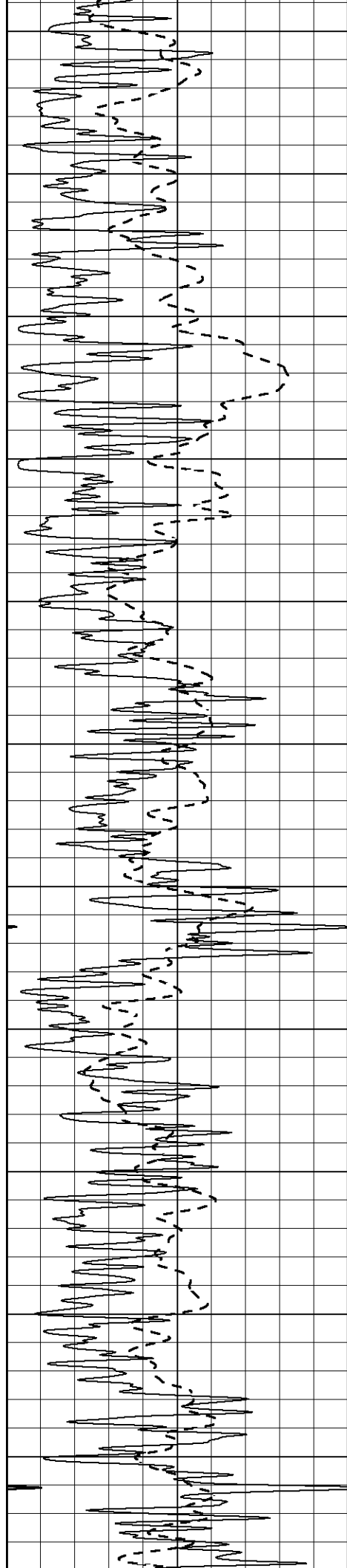
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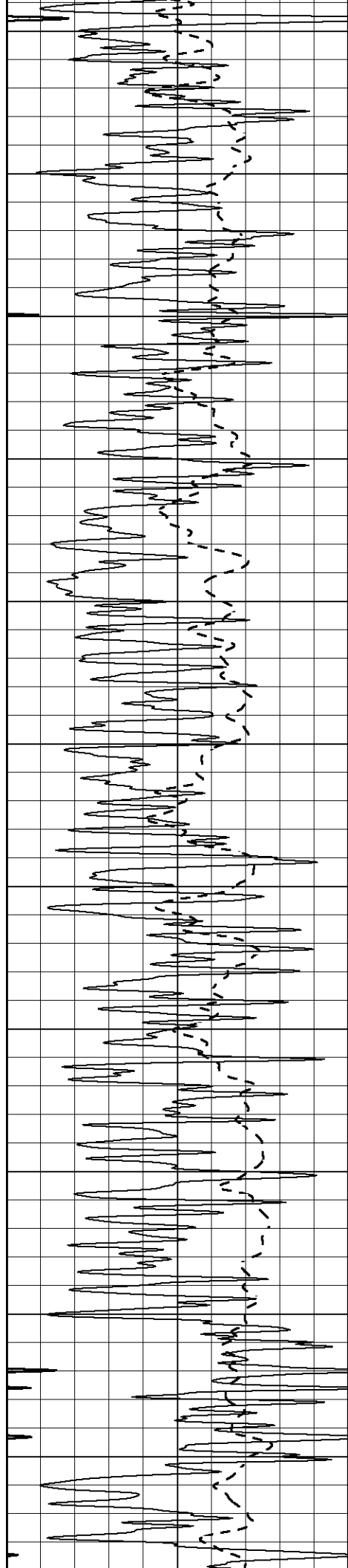
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1450

1500







2100

2150

2200

2250

2300

2350

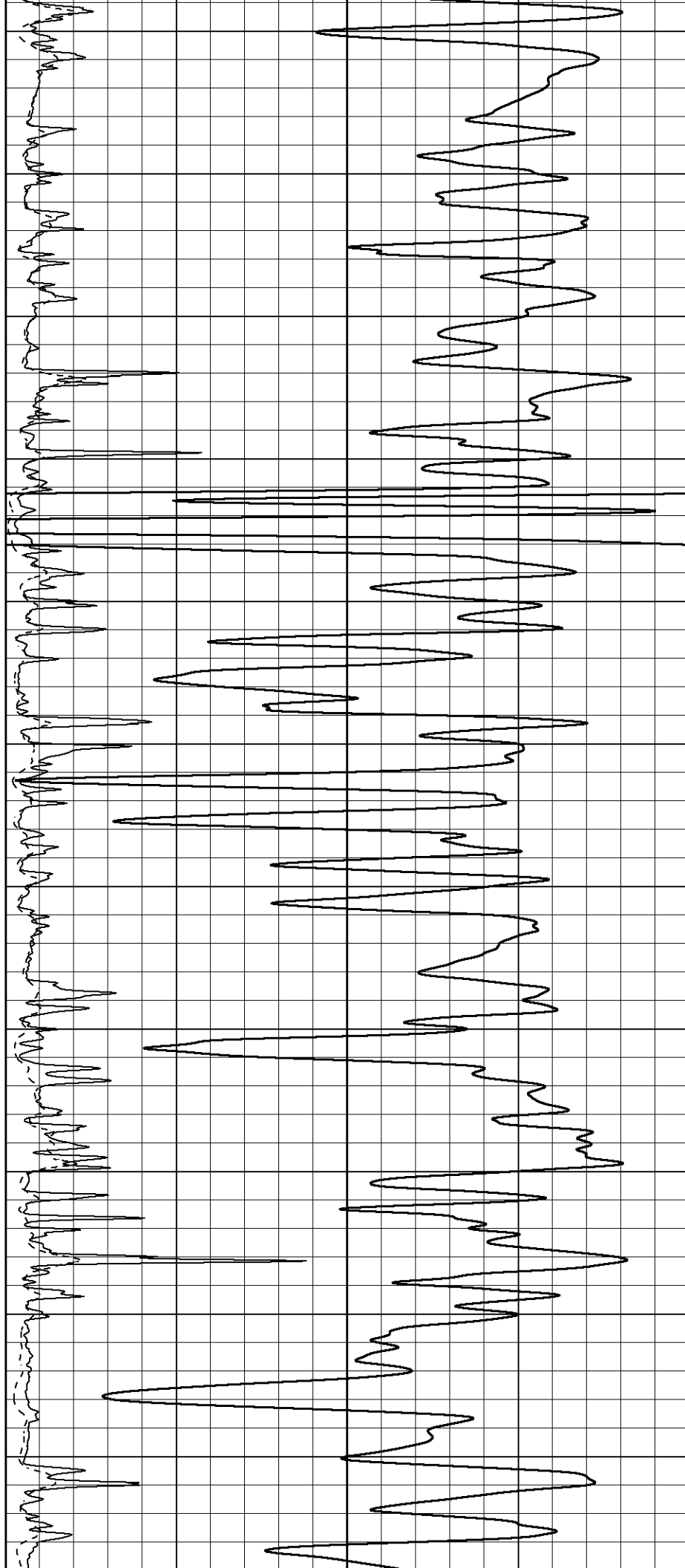
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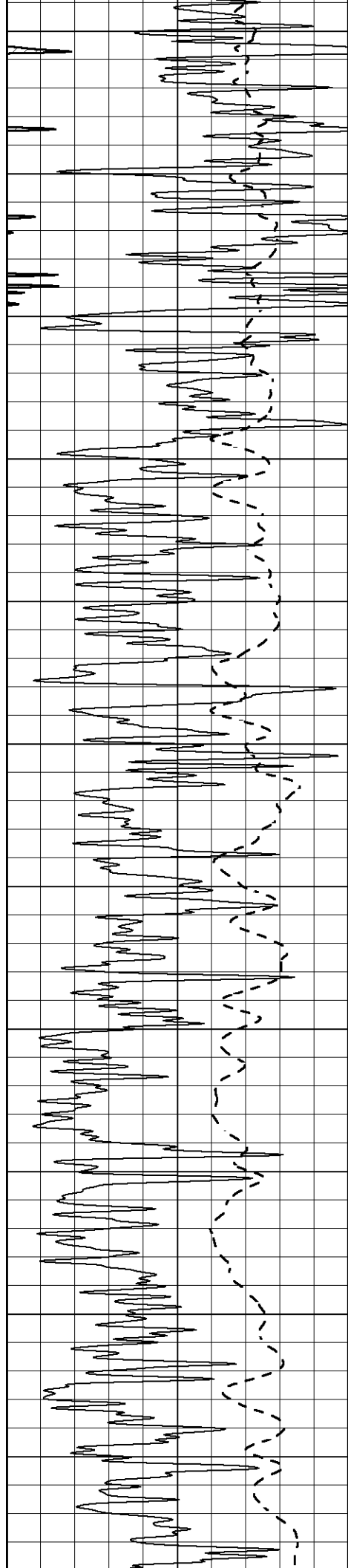
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2500

2550

2600





2650

2700

2750

2800

2850

2900

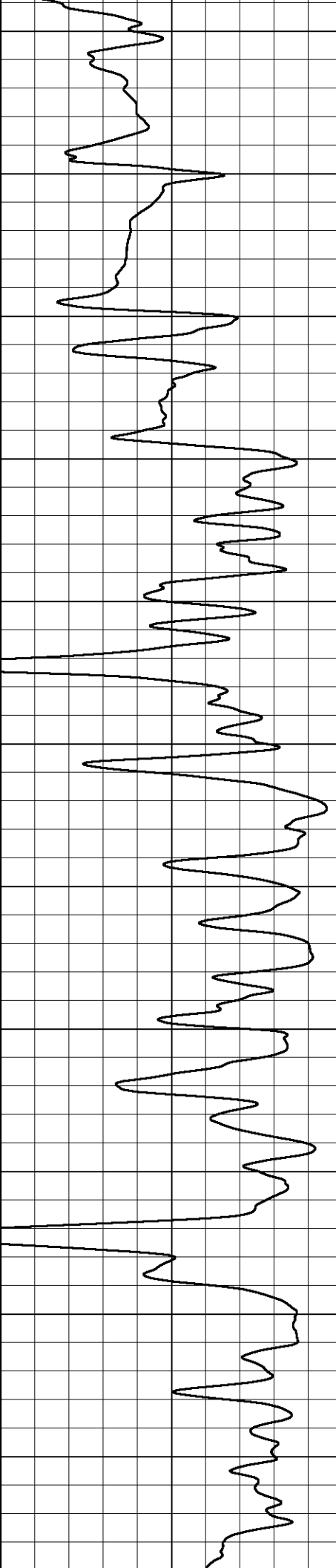
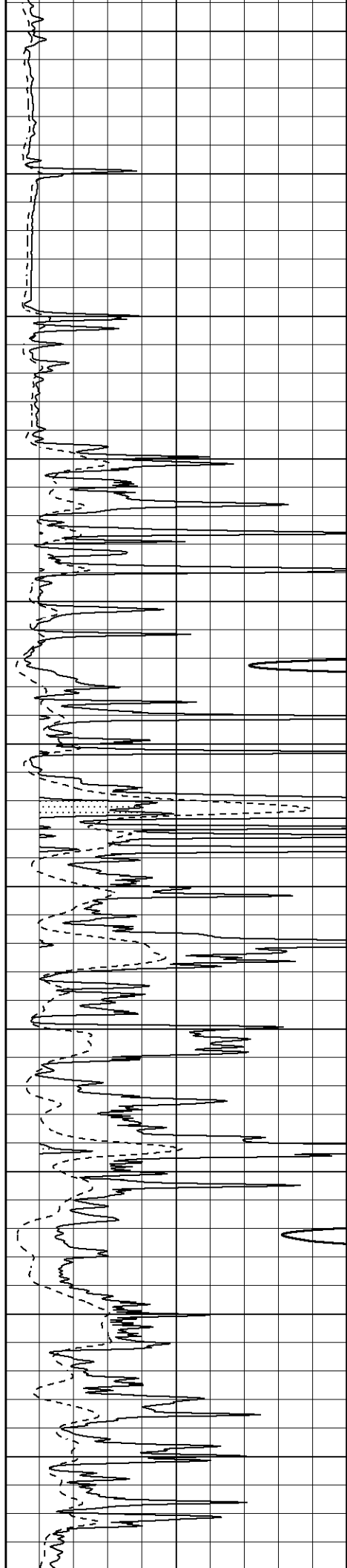
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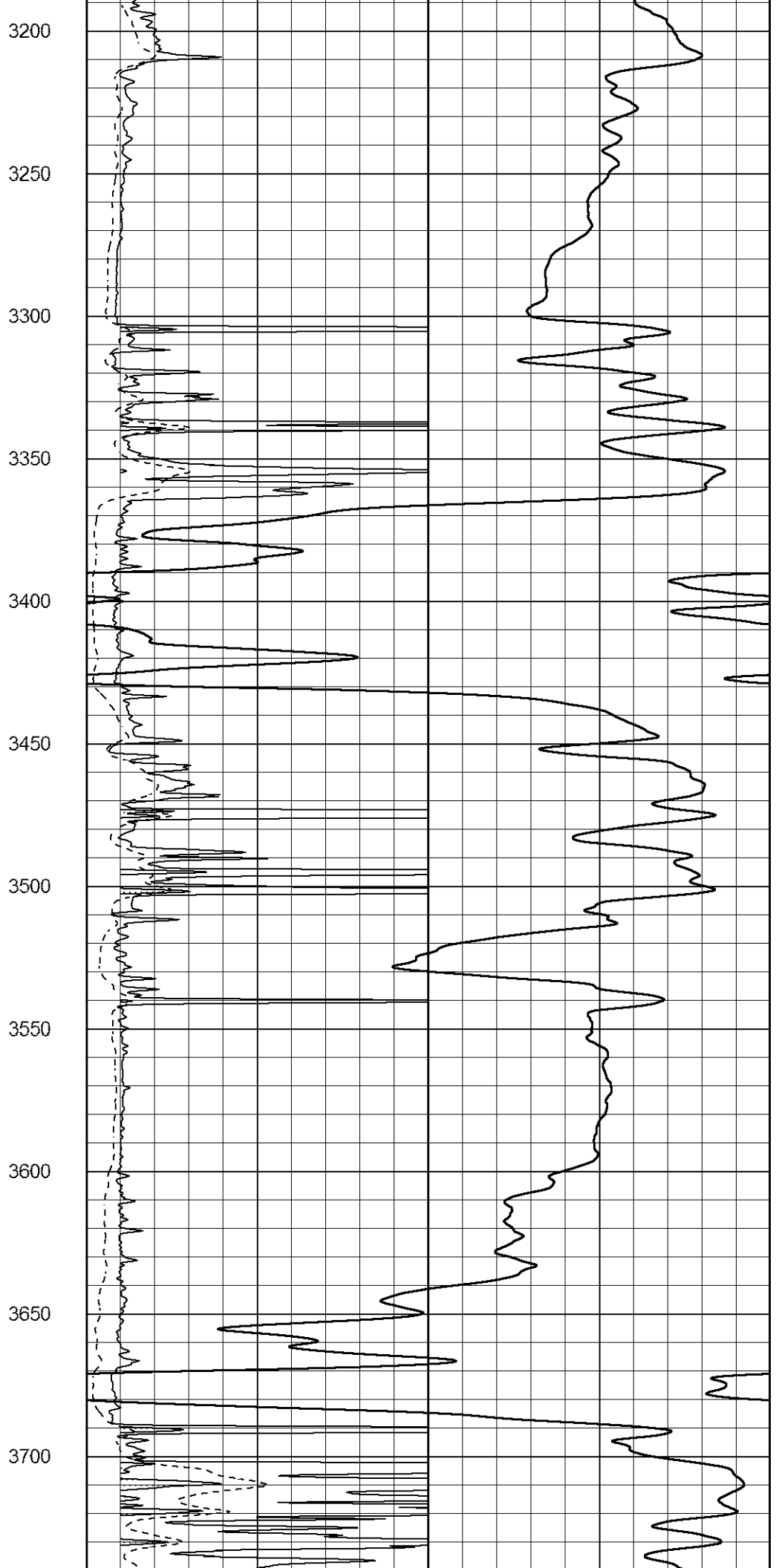
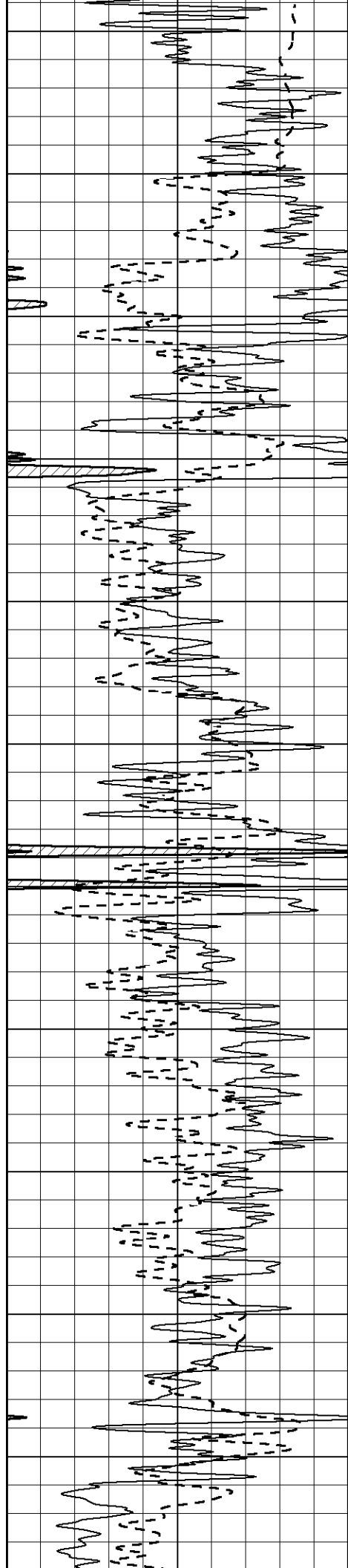
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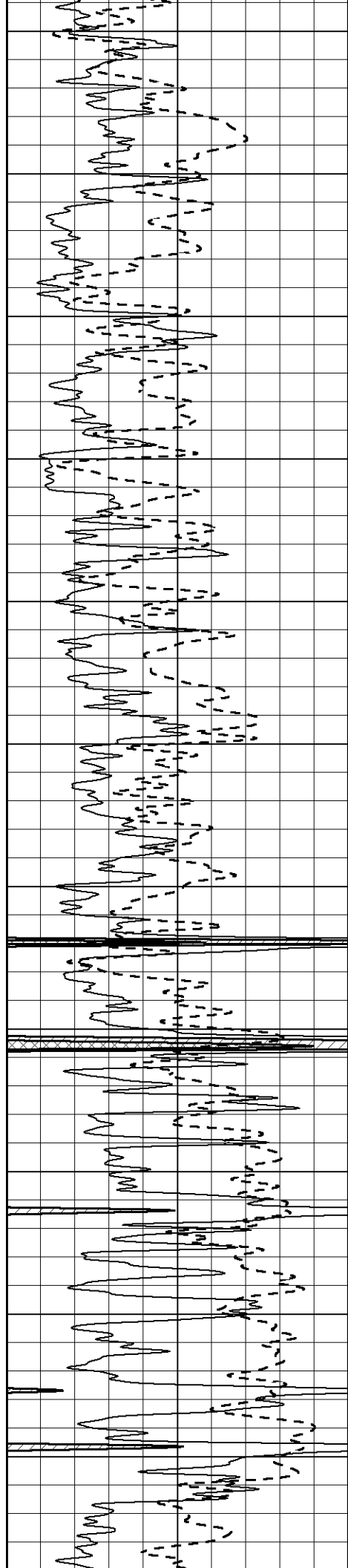
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3100

3150







3750

3800

3850

3900

3950

4000

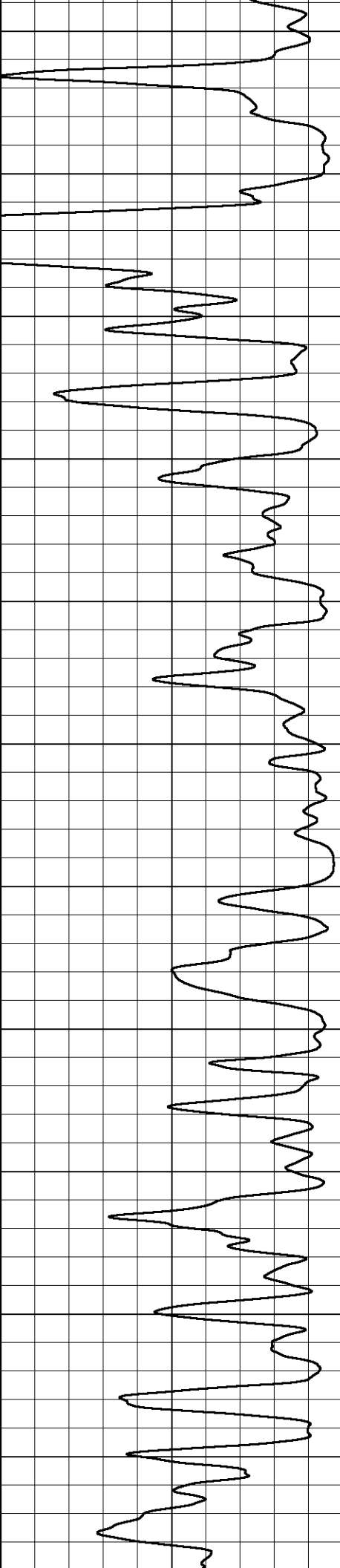
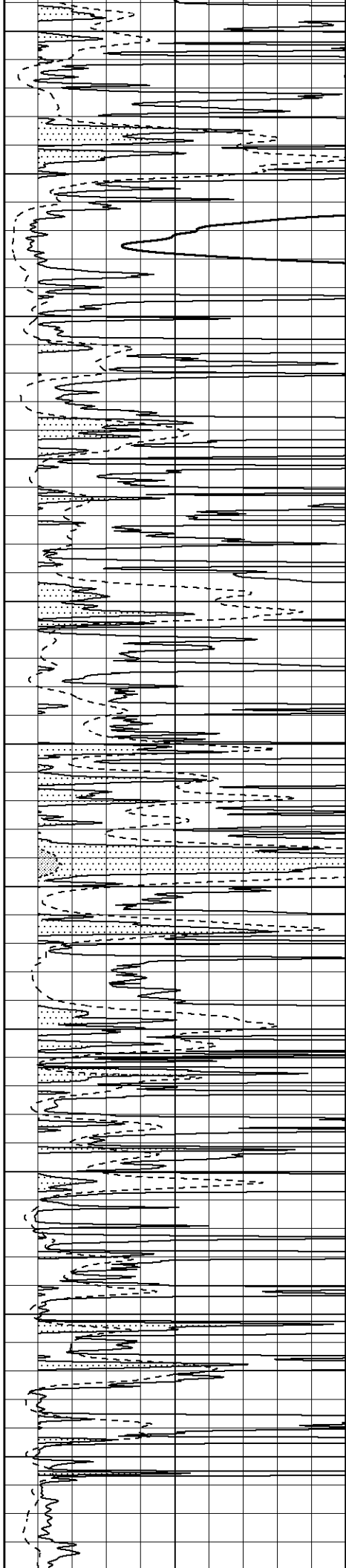
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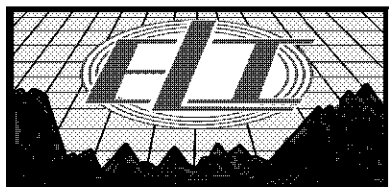
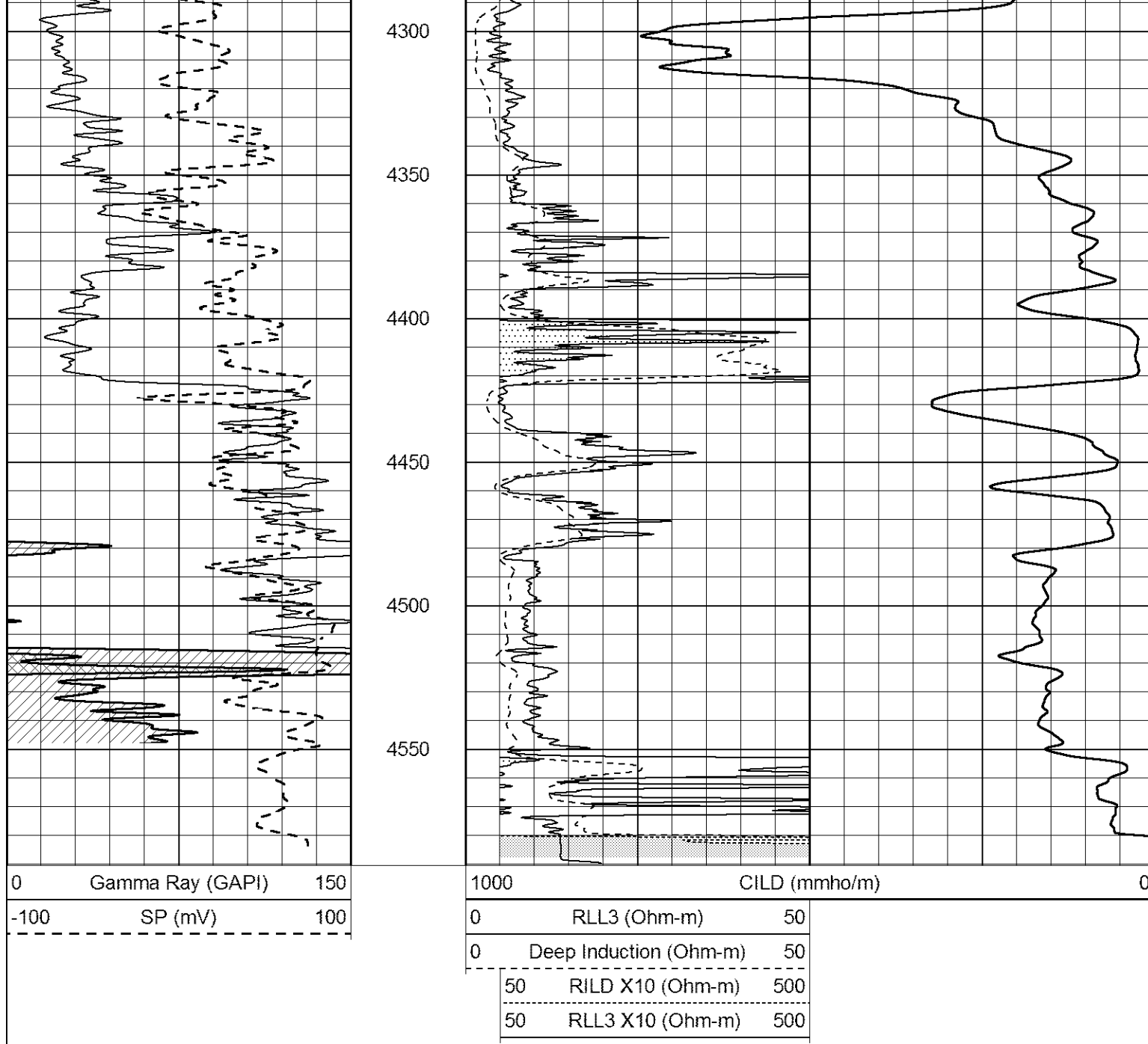
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4150

4200

4250

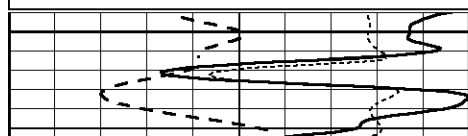




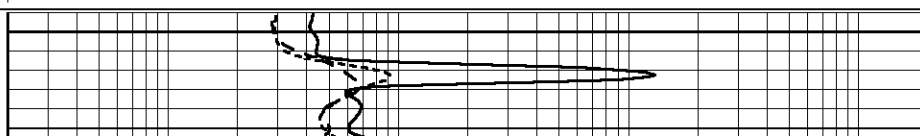
MAIN SECTION

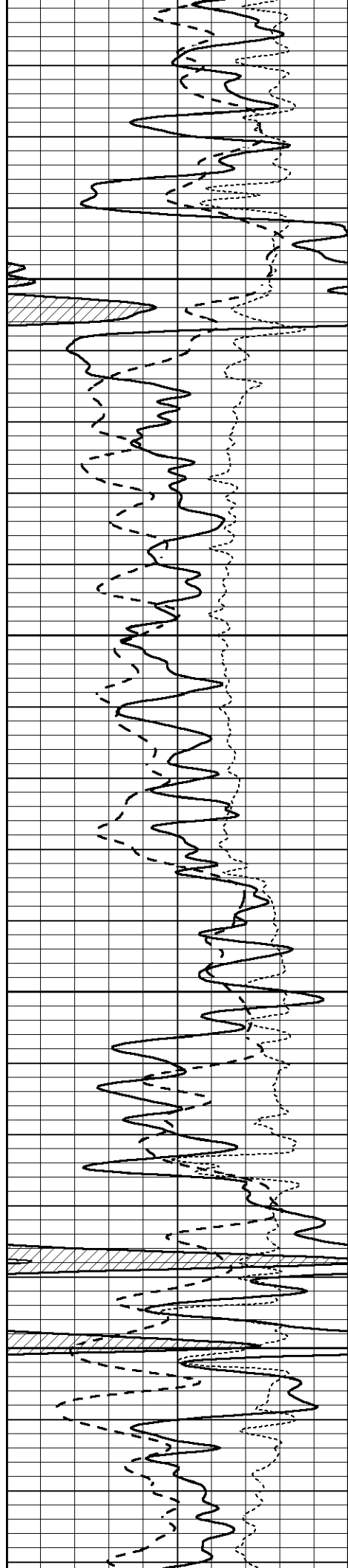
Database File 7236pe.db
 Dataset Pathname pass4DT
 Presentation Format _dil
 Dataset Creation Tue Oct 18 00:51:36 2022
 Charted by Depth in Feet scaled 1:240

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



3300



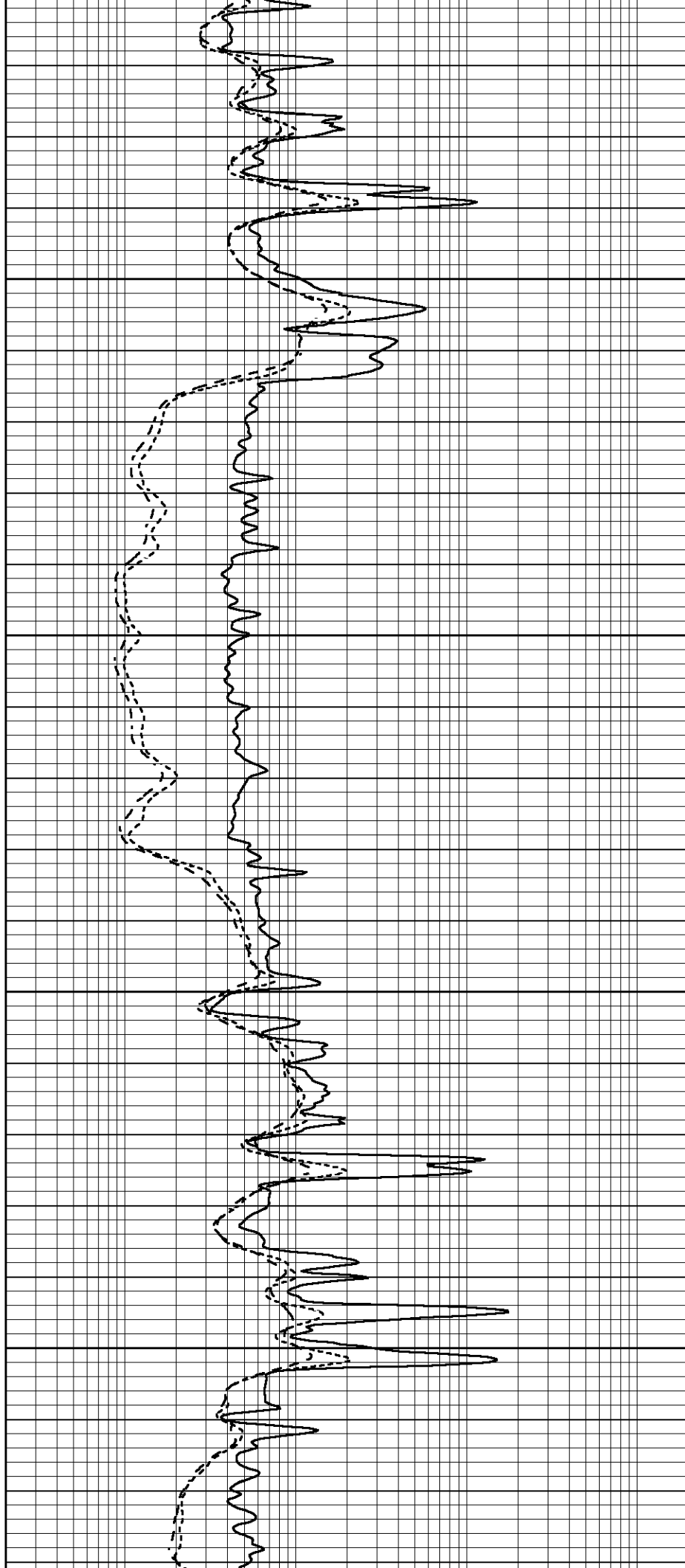


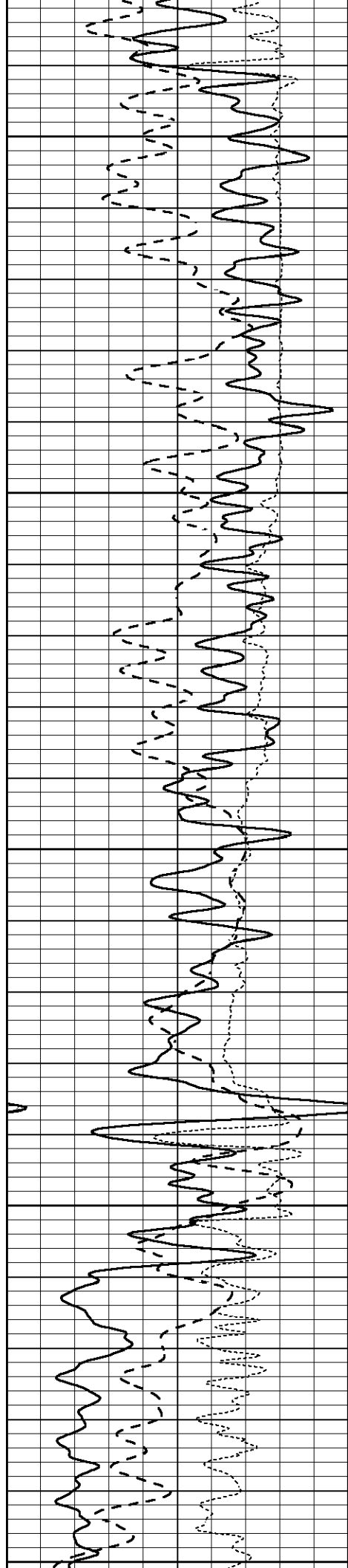
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3400

3450

3500





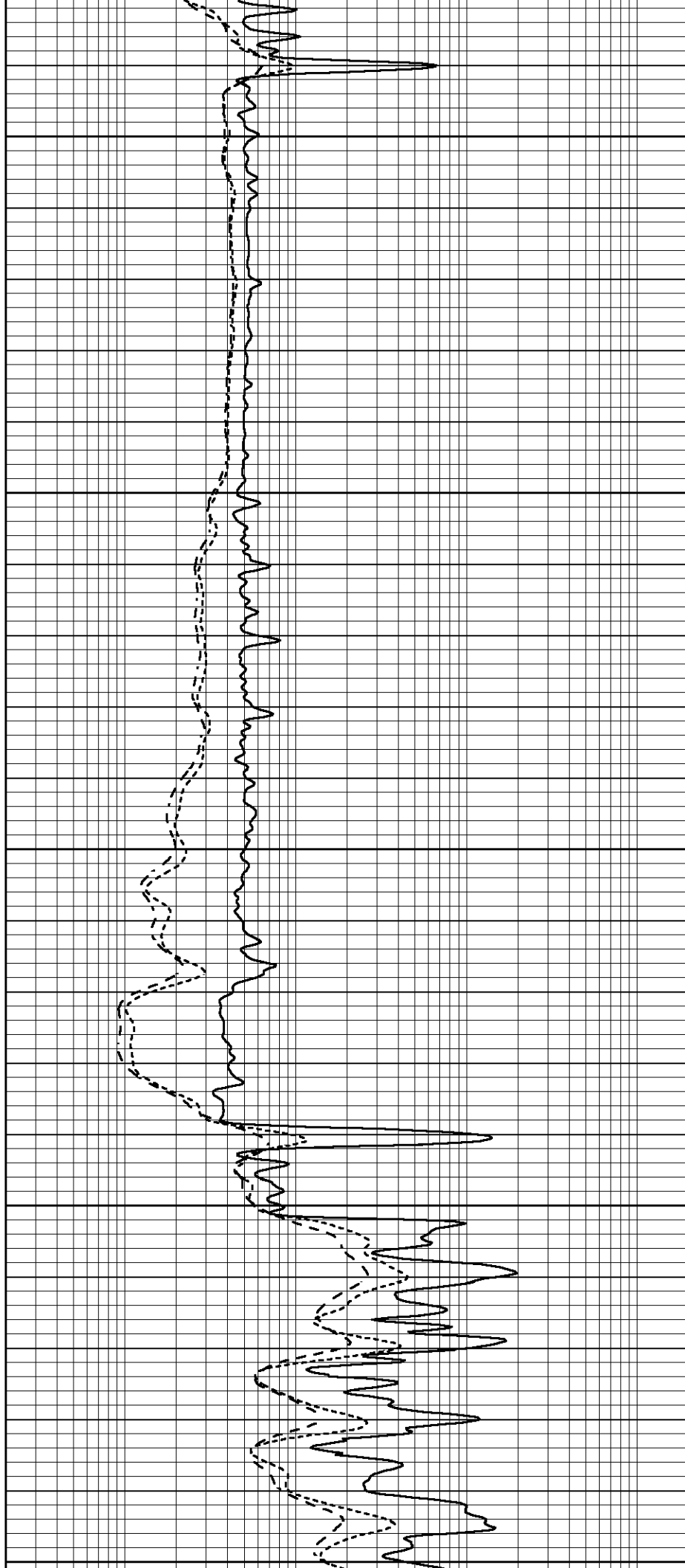
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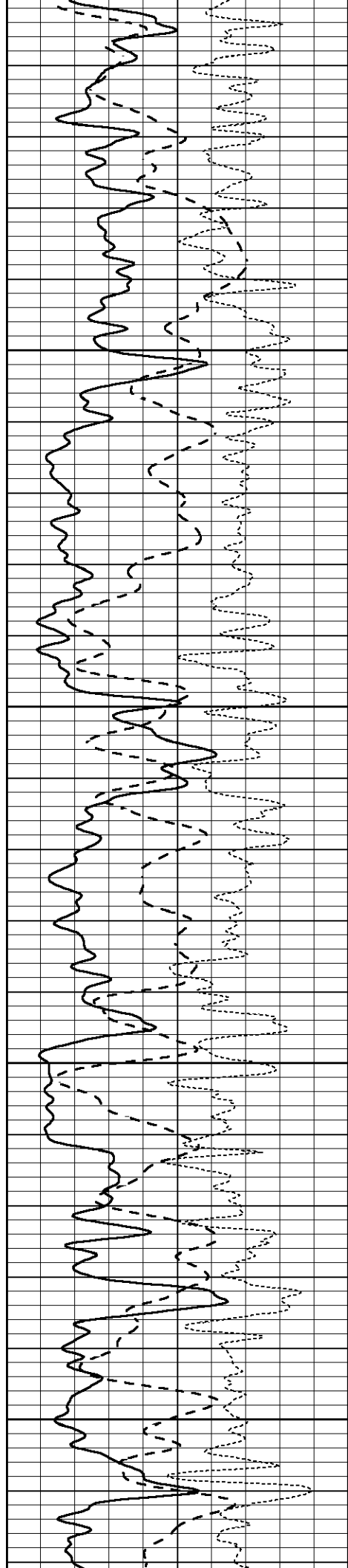
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3650

3700

3750



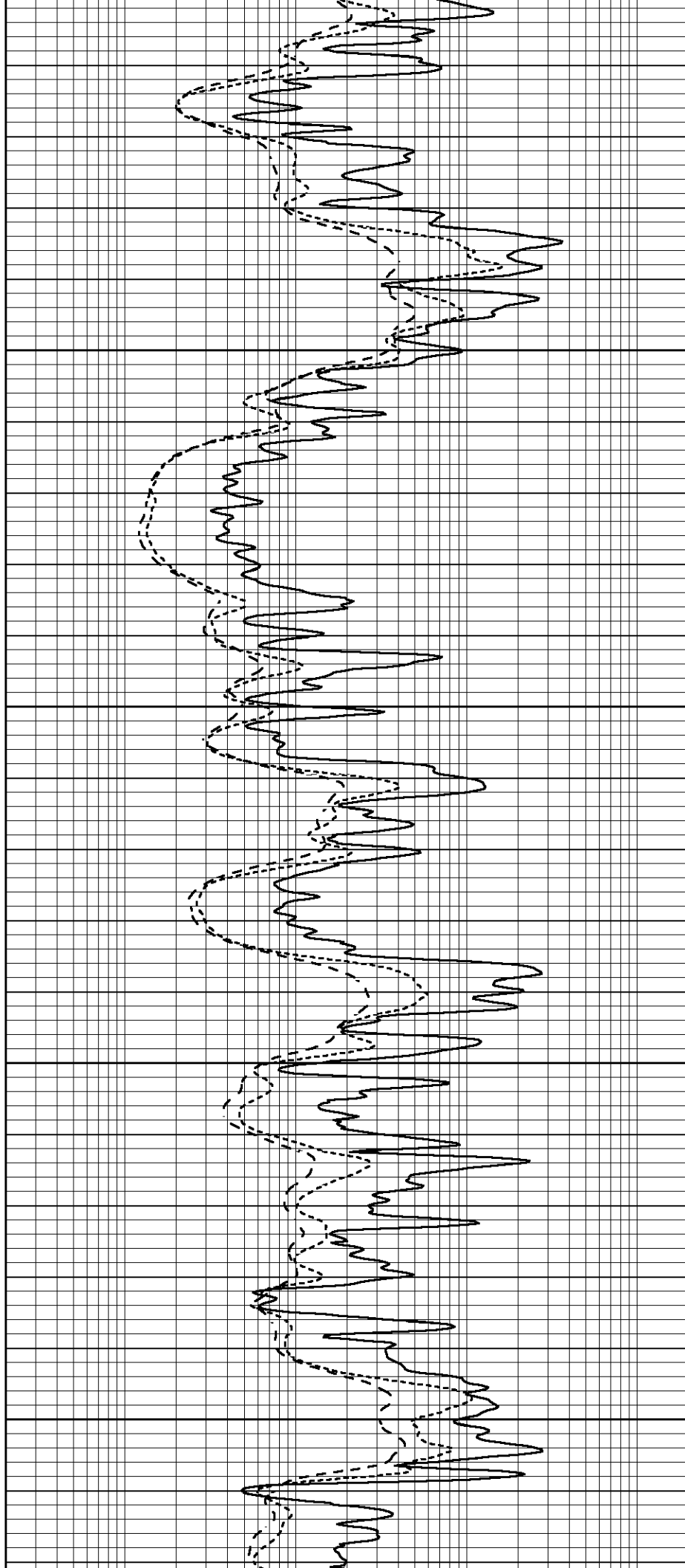


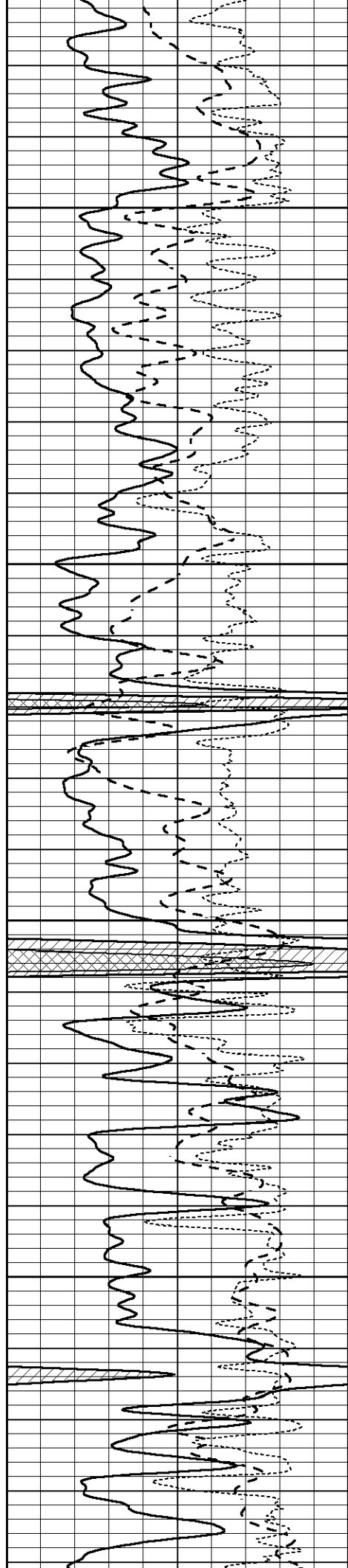
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3850

3900

3950



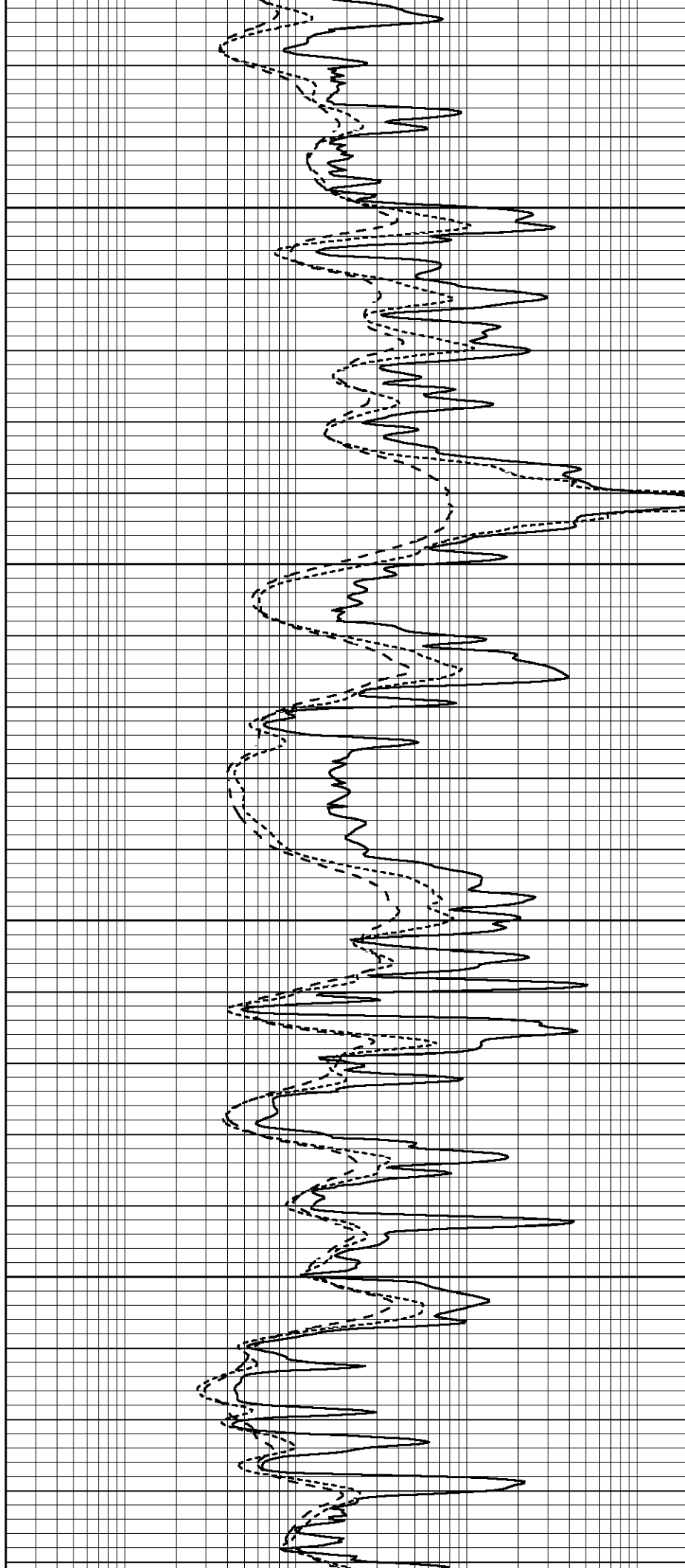


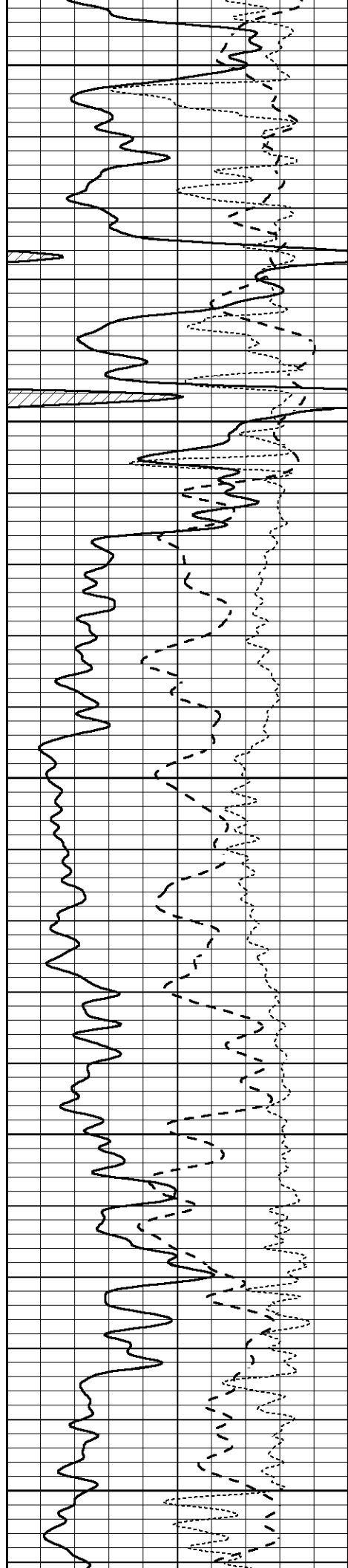
4000

4050

4100

4150





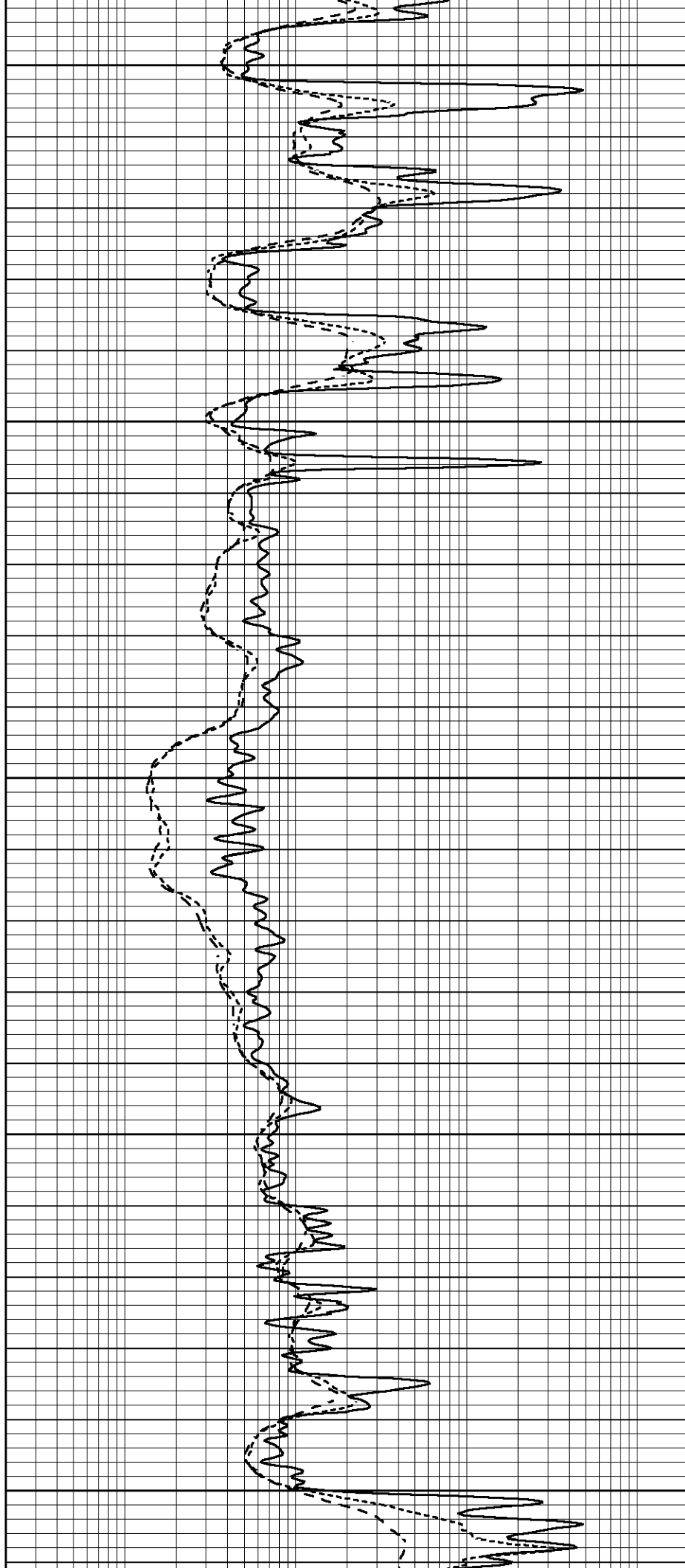
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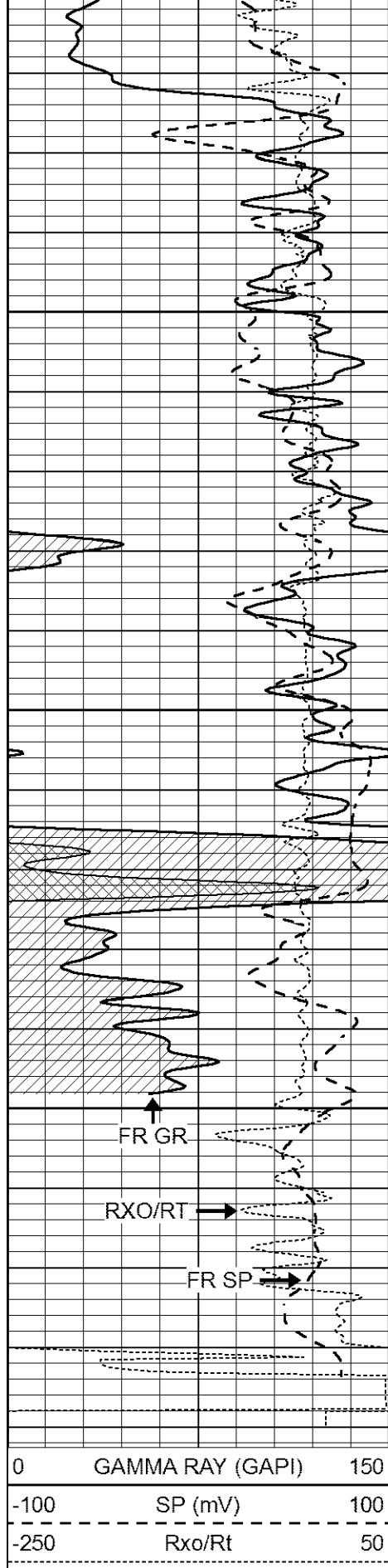
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4300

4350

4400



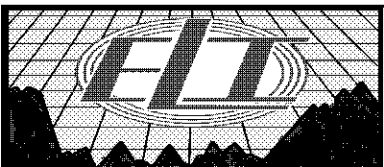
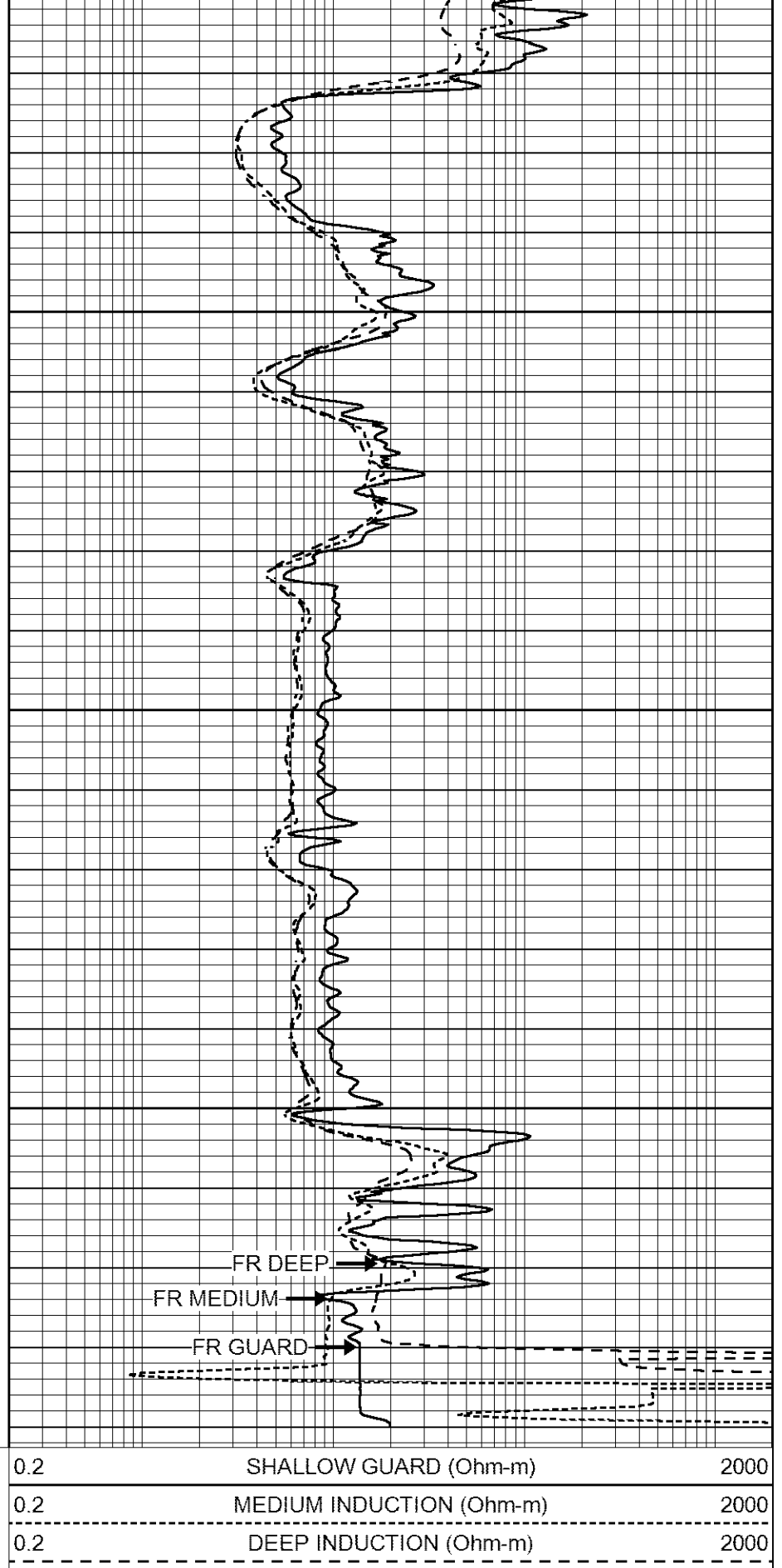


4450

4500

4550

LTD 4582

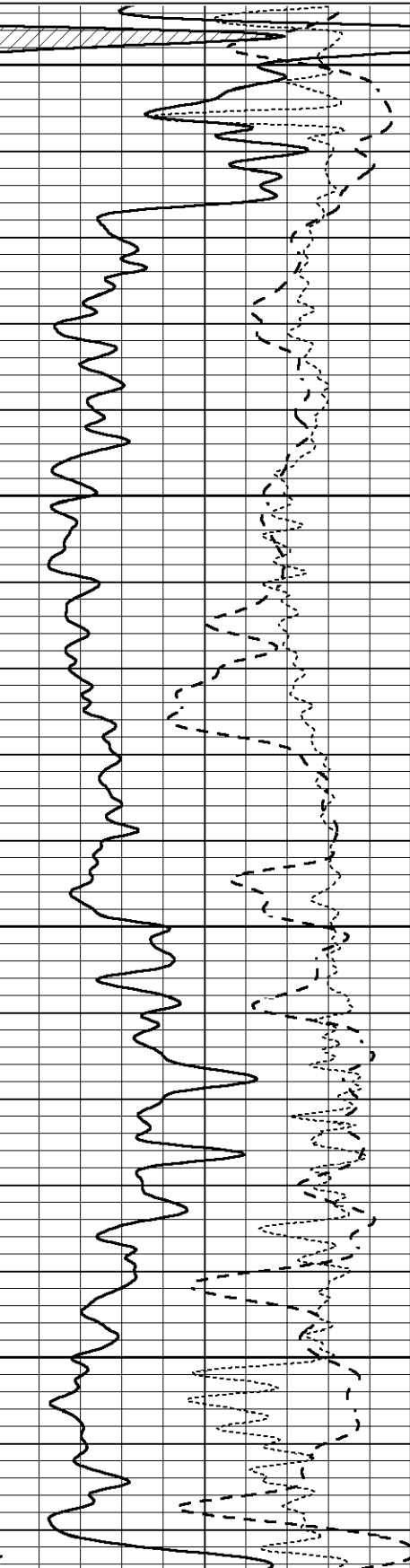


REPEAT SECTION

Database File 7236pe.db
Dataset Pathname pass3R
Presentation Format _dil
Dataset Creation Tue Oct 18 00:58:02 2022
Charted by Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
-250 Rxo/Rt 50

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

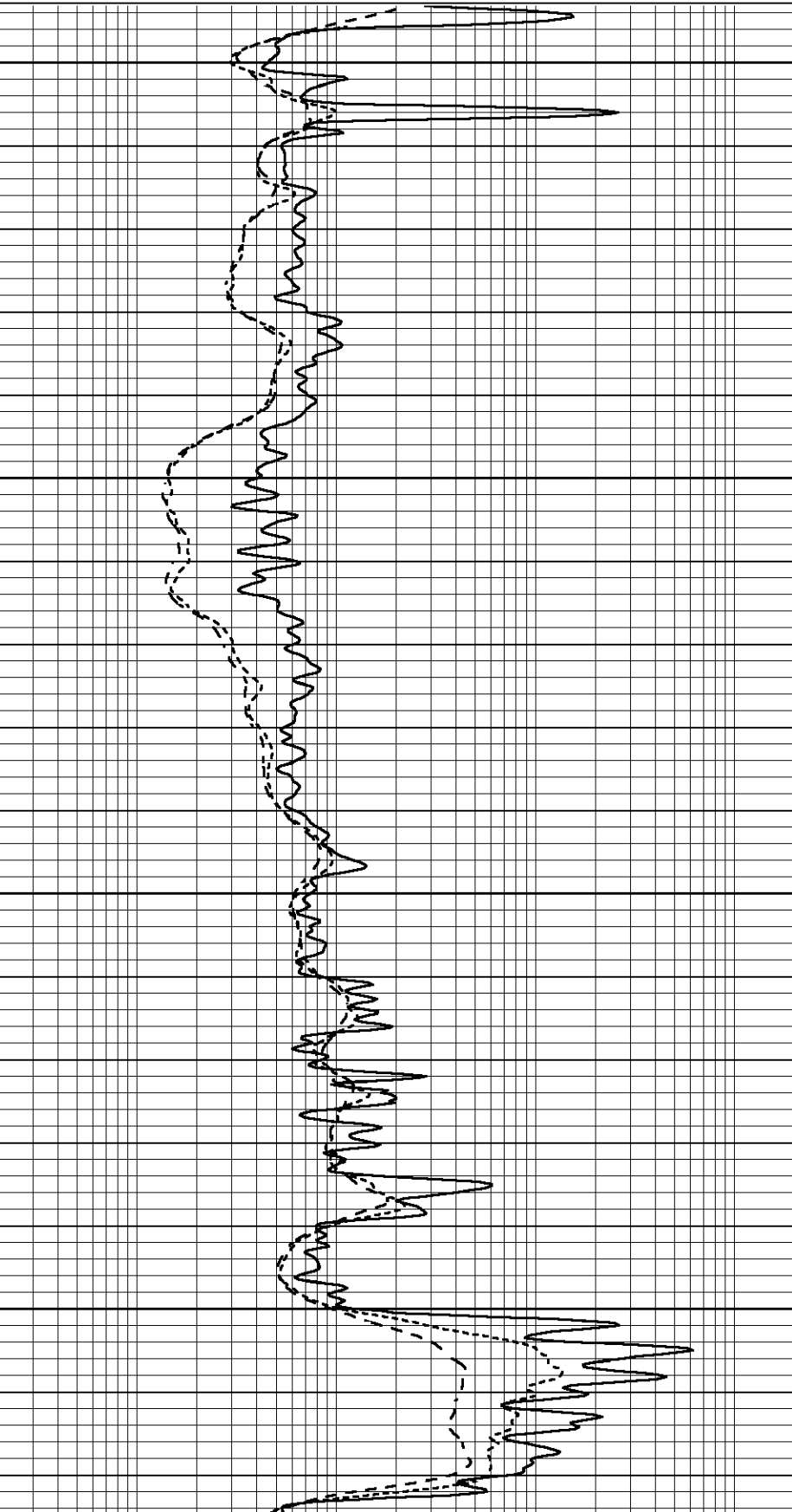


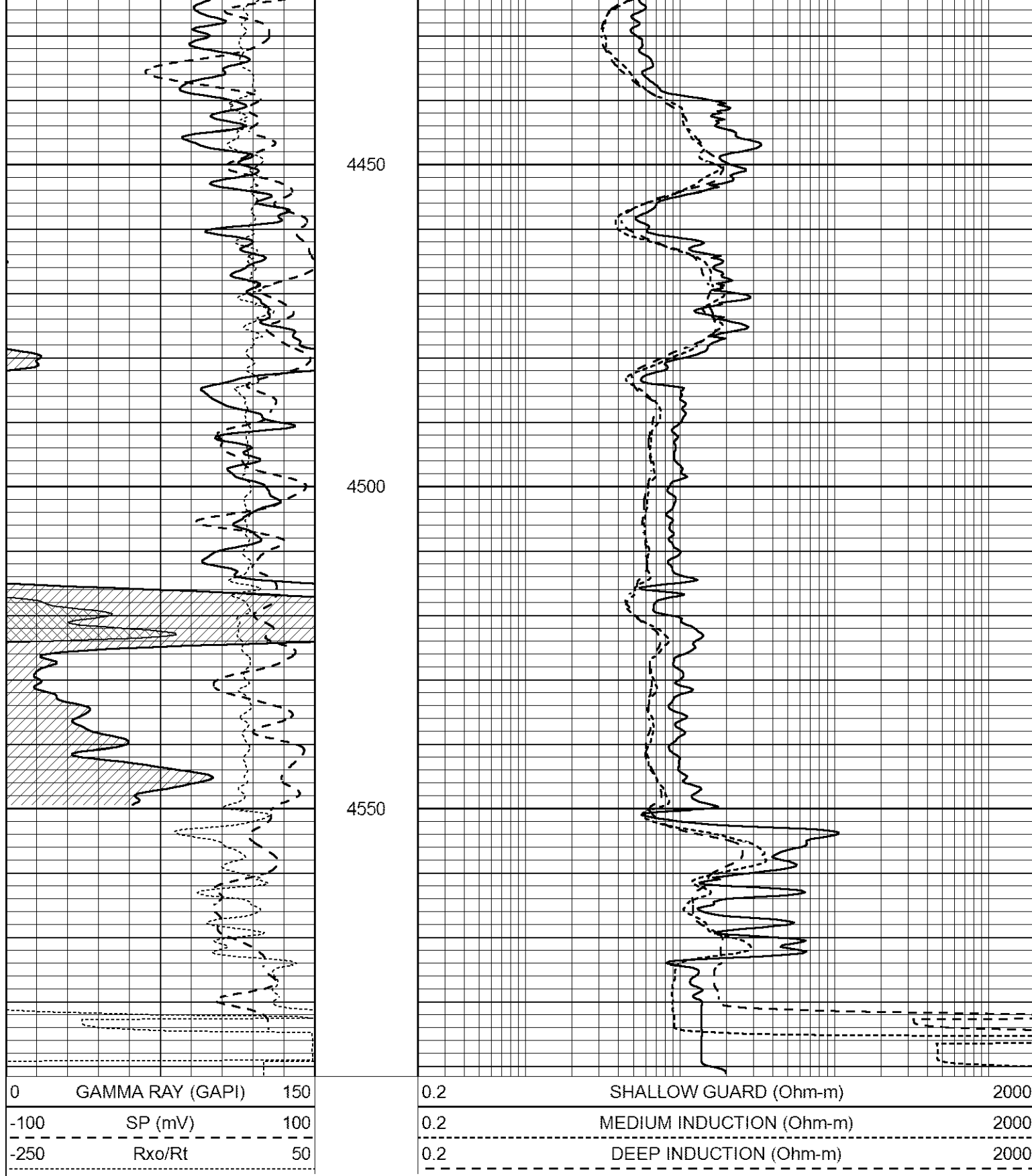
4250

4300

4350

4400





Calibration Report

Database File 7236pe.db
Dataset Pathname pass4M
Dataset Creation Tue Oct 18 01:10:41 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Thu Jun 30 01:48:00 2022

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	650.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-10.500
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report

Serial: 005

Model: Litho_Ver3

Master Calibration					Performed Fri May 13 13:54:58 2022			
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1363.1	46477.8	11515.9	9589.9				cps
Window 2	1239.4	36488.4	9270.1	7998.9				cps
Window 3	1044.3	20488.1	5500.7	4913.3				cps
Window 4	315.7	358.7	321.5	319.5				cps
Long Space	0.0	35249.0	8030.7	6759.4				cps
Short Space	1.4	9675.7	6523.4	5391.9				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 45.1	Rib Slope	: 1.003	Density/Spine Ratio			: 0.575	
Spine Angle	: 75.1	Spine Slope	: 3.752	Spine Intercept			: -24.0	

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0				cps
Window 2	0.0	0.0	0.0	0.0				cps
Window 3	0.0	0.0	0.0	0.0				cps
Window 4	0.0	0.0	0.0	0.0				cps
Long Space	0.0	0.0	0.0	0.0				cps
Short Space	0.0	0.0	0.0	0.0				cps
Measured Rho		0.0000	0.0000	0.0000				g/cc

Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	
After Survey Verification					
Performed Wed Dec 31 18:00:00 1969					
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	
Compensated Neutron Calibration Report					
		Serial Number:	080621PMC		
		Tool Model:	NABORS		
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:		Thu May 26 08:56:46 2022			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.5500	GAPI/cps		