

DUAL INDUCTION LOG

Company STELBAR OIL CORPORATION
Well HELL CREEK RANCH #3-18
Field BECKLEY
County SCOTT State KANSAS

Location: API #: 15-171-21274-0000

Other Services
CDL/CNL/PE
MEL/SONIC

400' FNL & 1657' FEL
SW - NE - NW - NE
SEC 18 TWP 18S RGE 31W

Elevation

Permanent Datum GROUND LEVEL Elevation 2956
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

K.B. 2961
D.F. 2959
G.L. 2956

Date	9/3/21		
Run Number	ONE		
Depth Driller	4640		
Depth Logger	4640		
Bottom Logged Interval	4638		
Top Log Interval	00		
Casing Driller	8 5/8"@302'		
Casing Logger	300		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,300 PPM	
Density / Viscosity	8.9/64		
pH / Fluid Loss	11.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950@90F		
Rmf @ Meas. Temp	.713@90F		
Rmc @ Meas. Temp	1.14@90F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.700@122F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	3.45 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	DAVE GOLDAK		

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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.

15-171-21274-0000

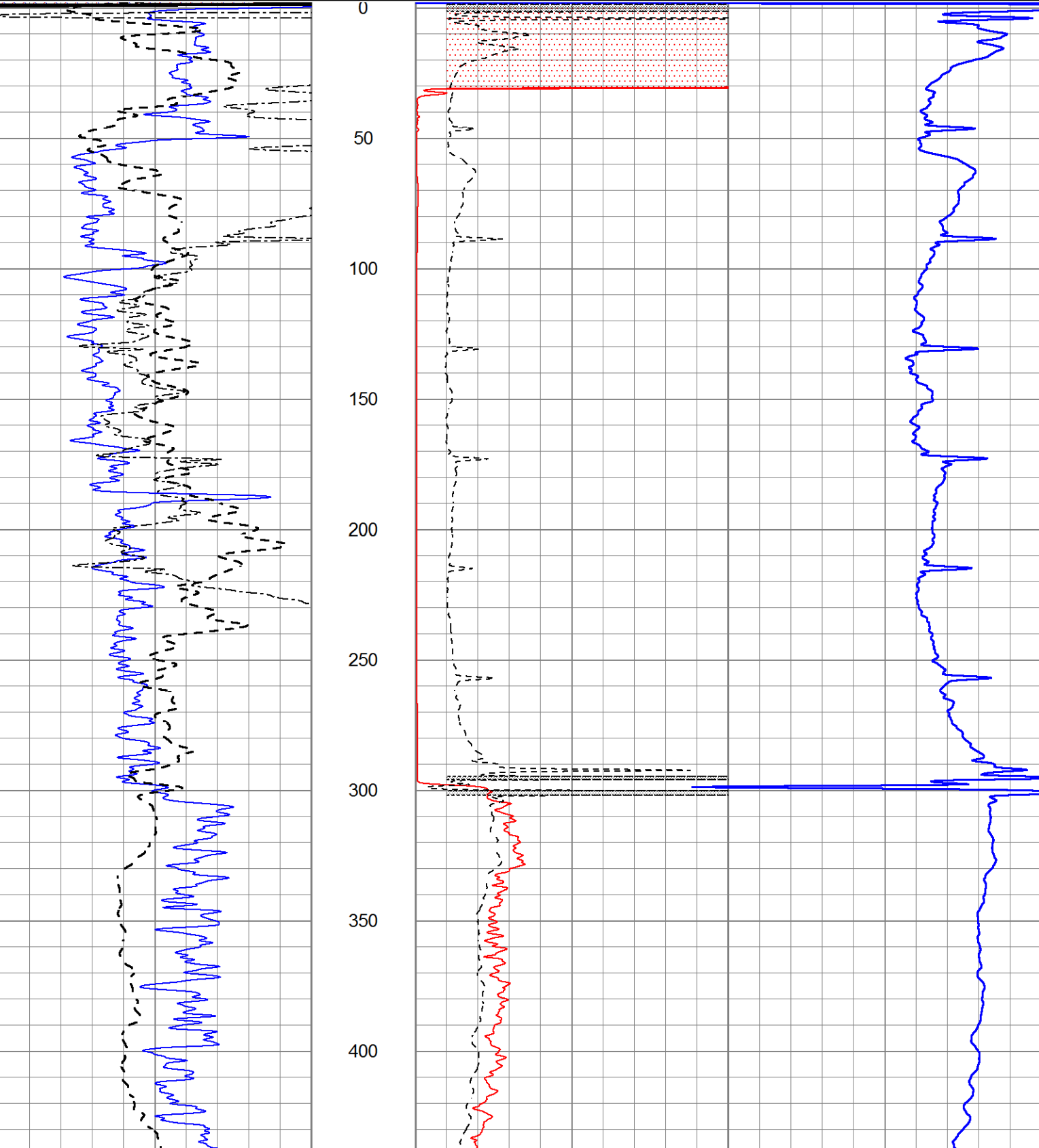
Comments

THANK YOU FOR USING E.L.I. WIRELINE SERVICES HAYS, KANSAS (785)628-6395
DIRECTIONS
DIGHTON, KS., (4 WAY STOP) 16W. ON HWY 96 TO "TAOS RD.", 1N., 1.3W., S. INTO

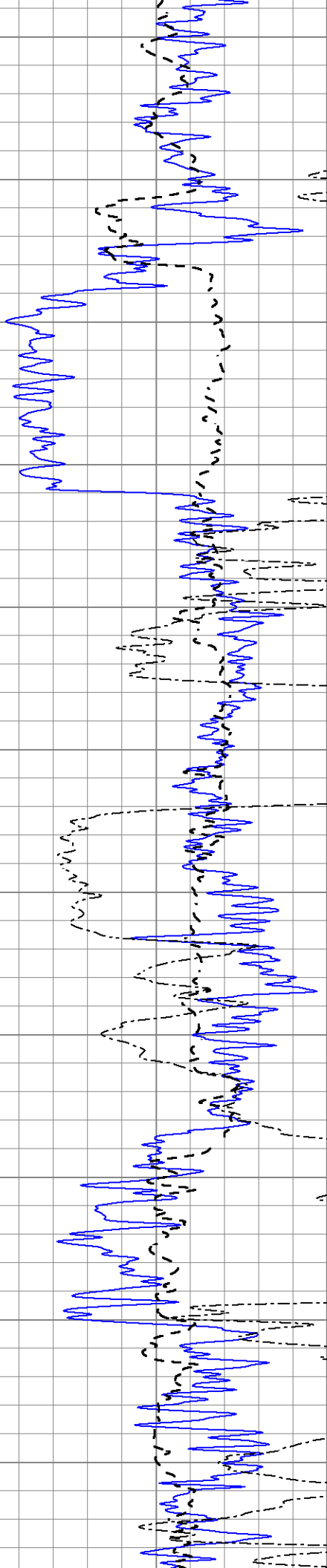
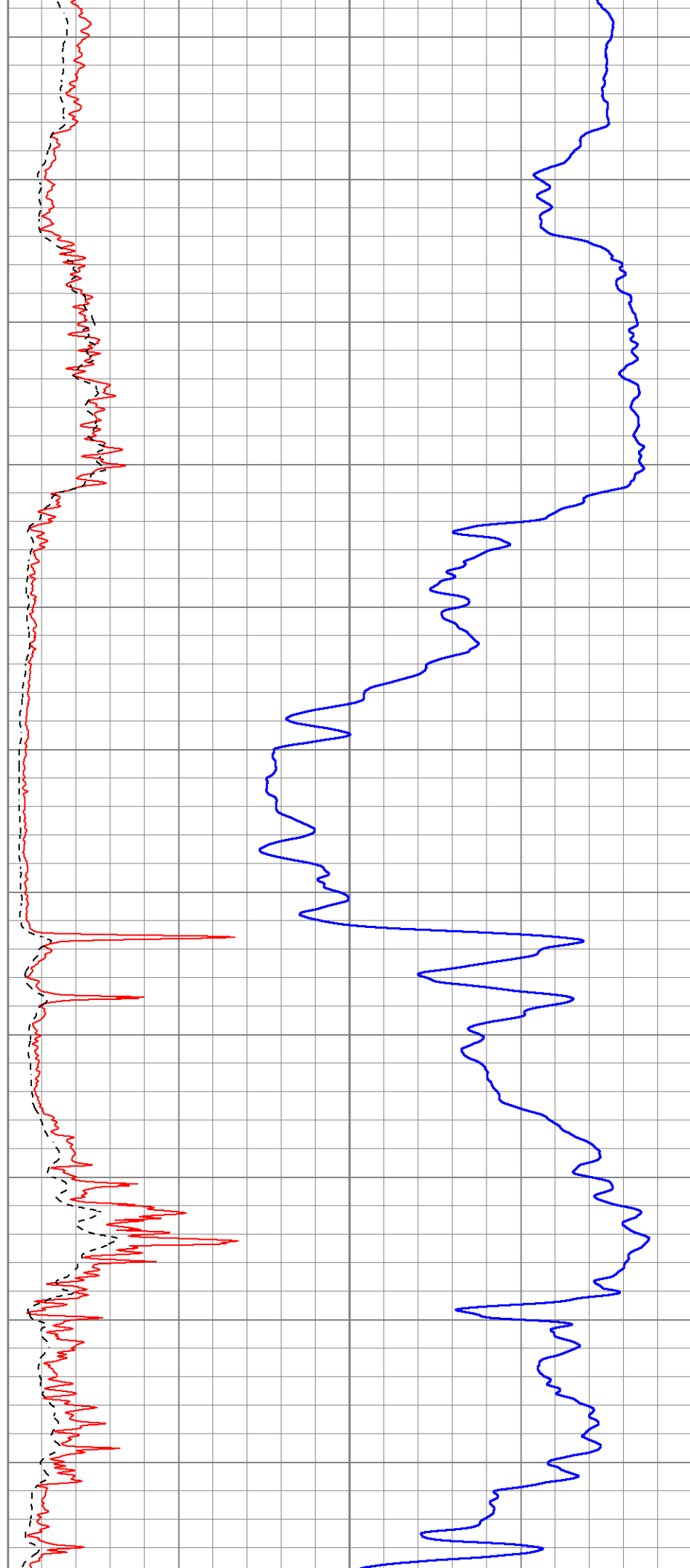


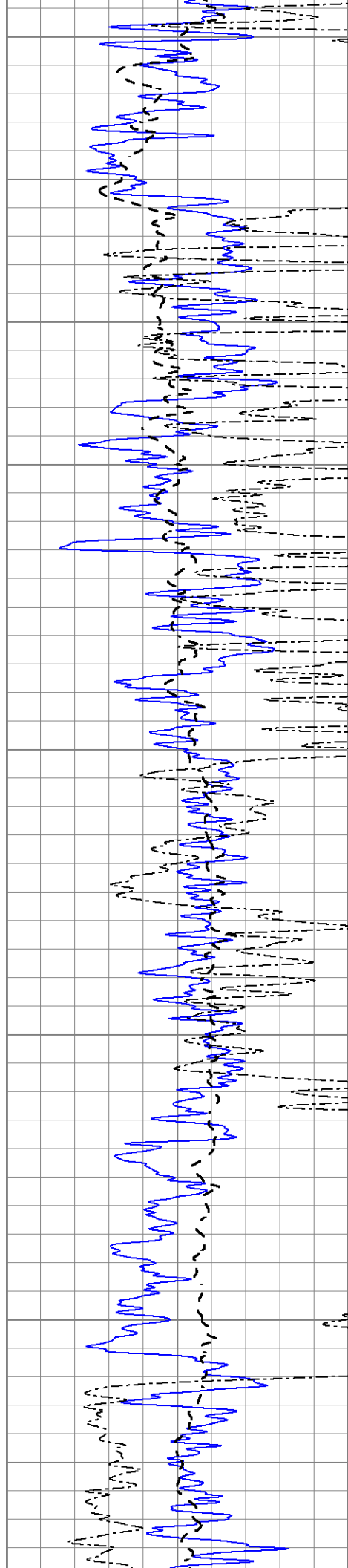
MAIN SECTION

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



450
500
550
600
650
700
750
800
850
900
950





1000

1050

1100

1150

1200

1250

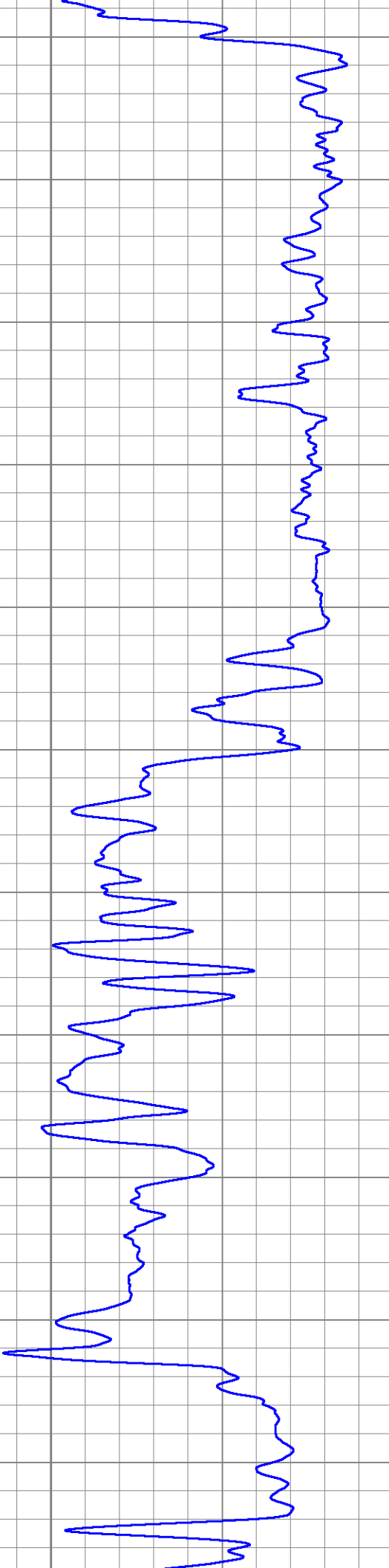
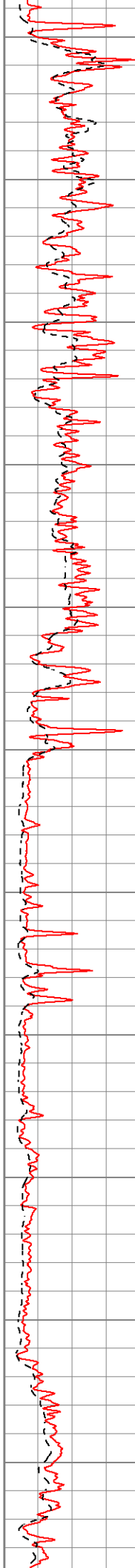
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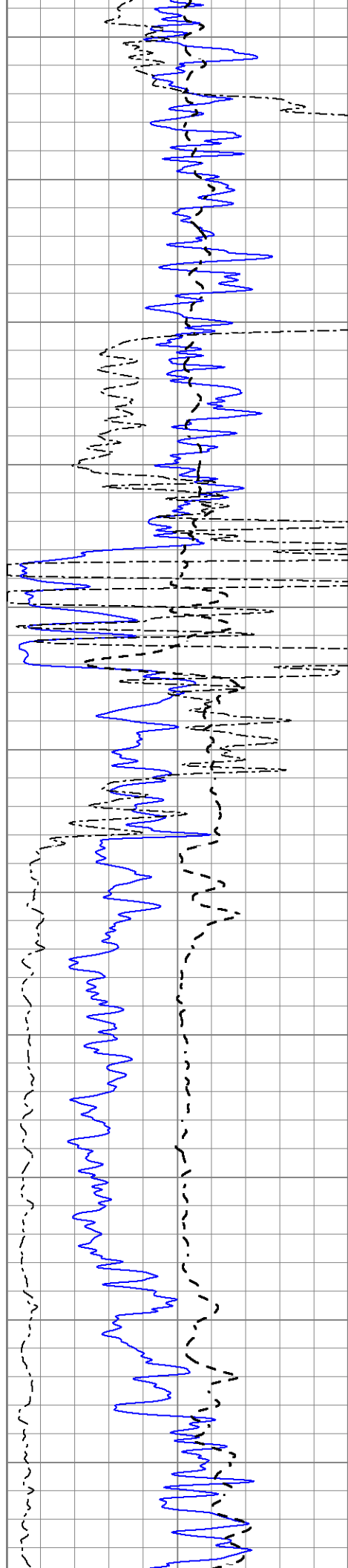
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1400

1450

1500





1550

1600

1650

1700

1750

1800

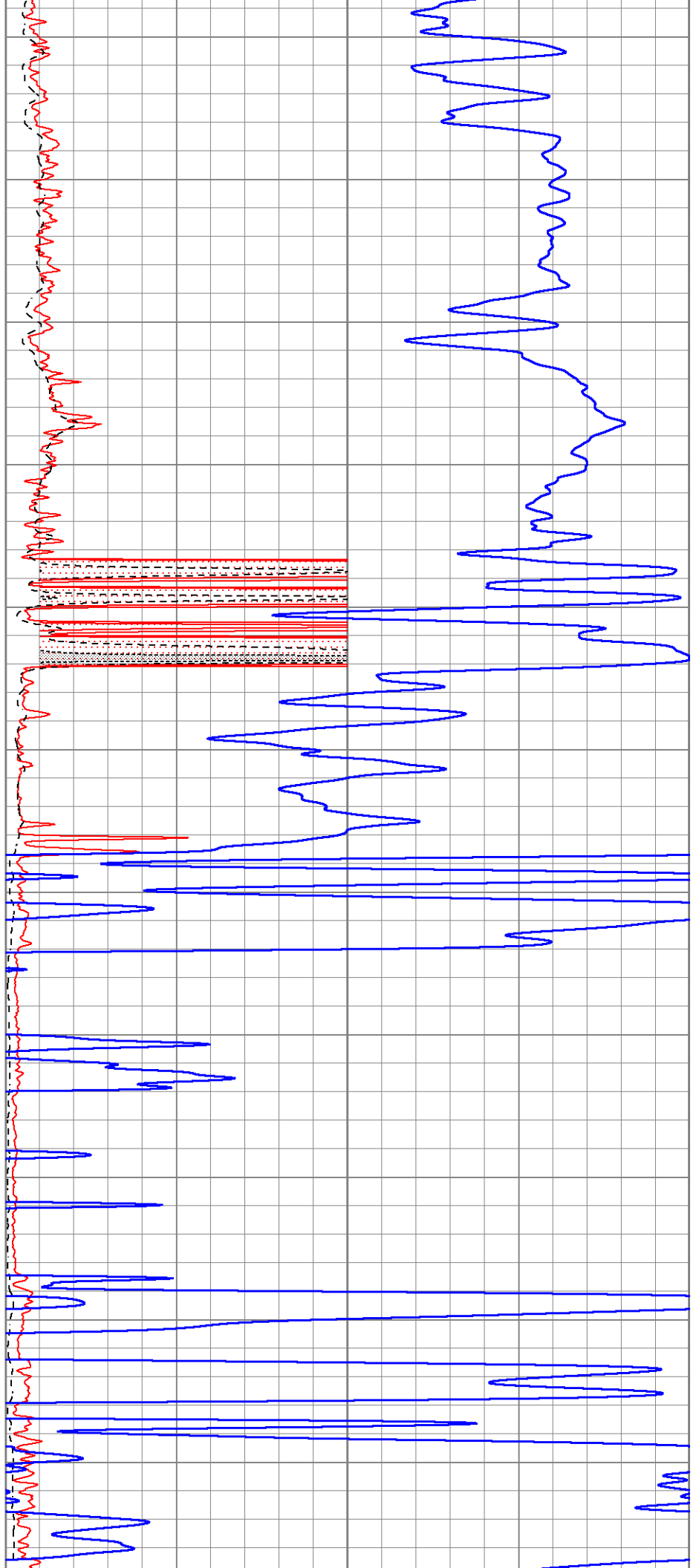
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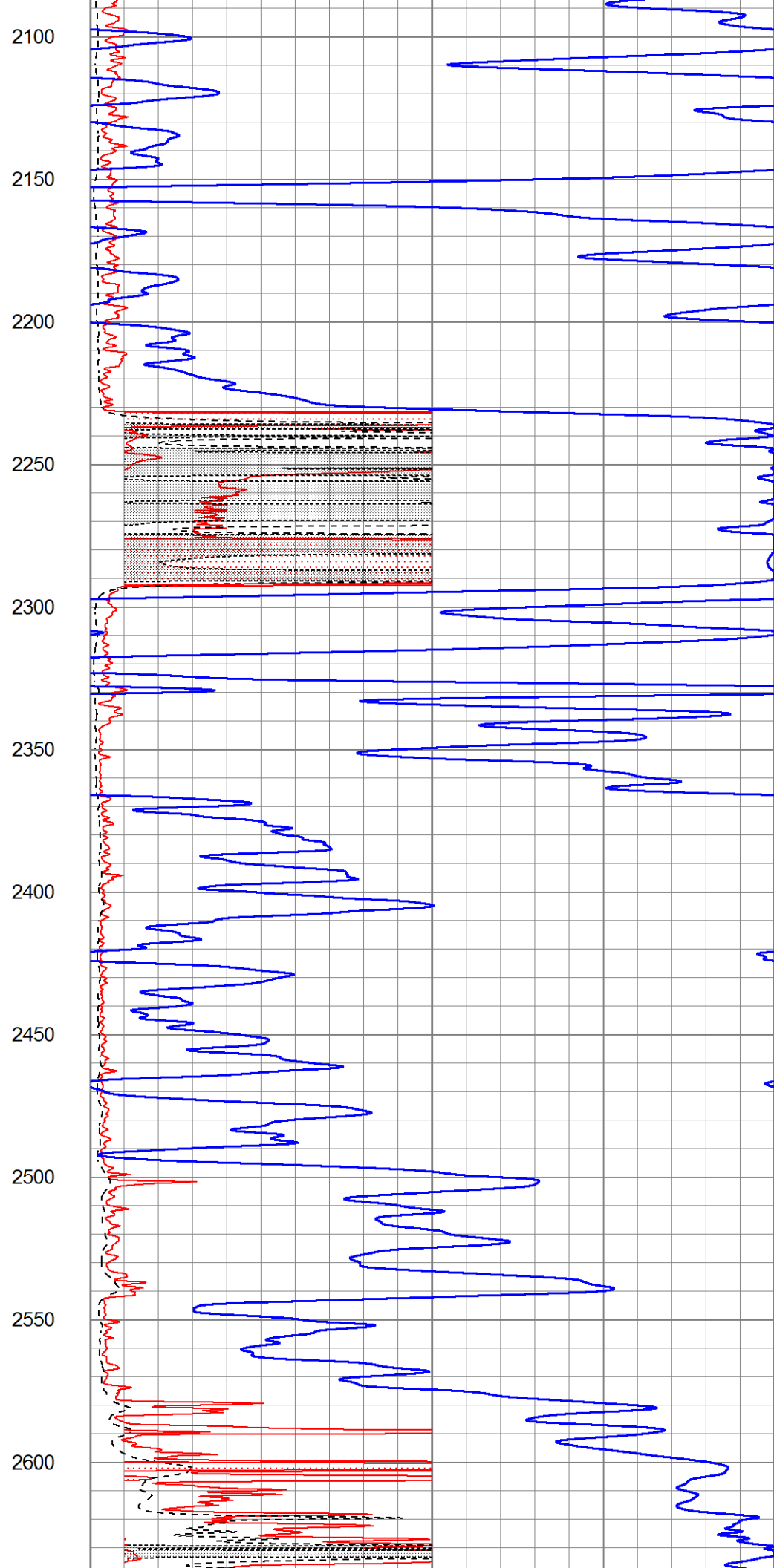
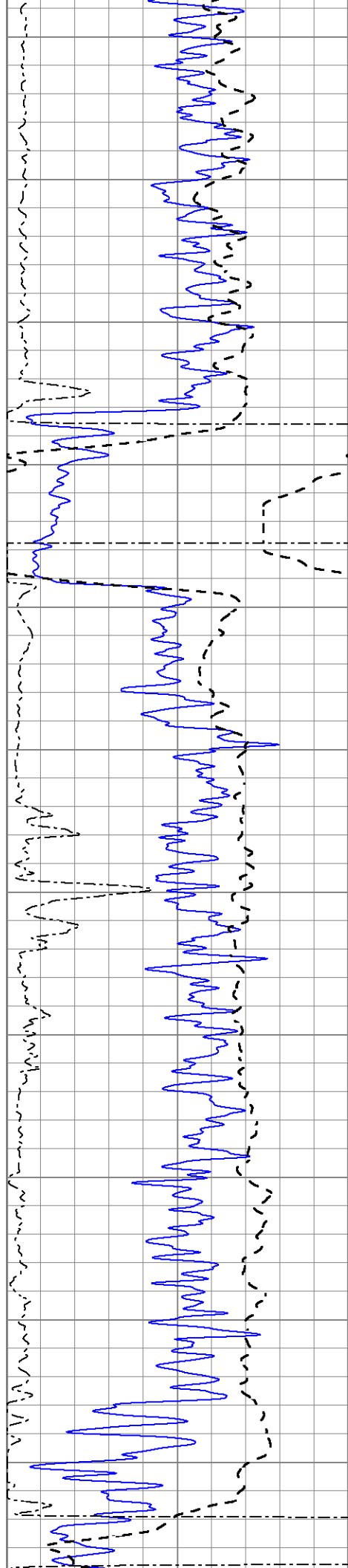
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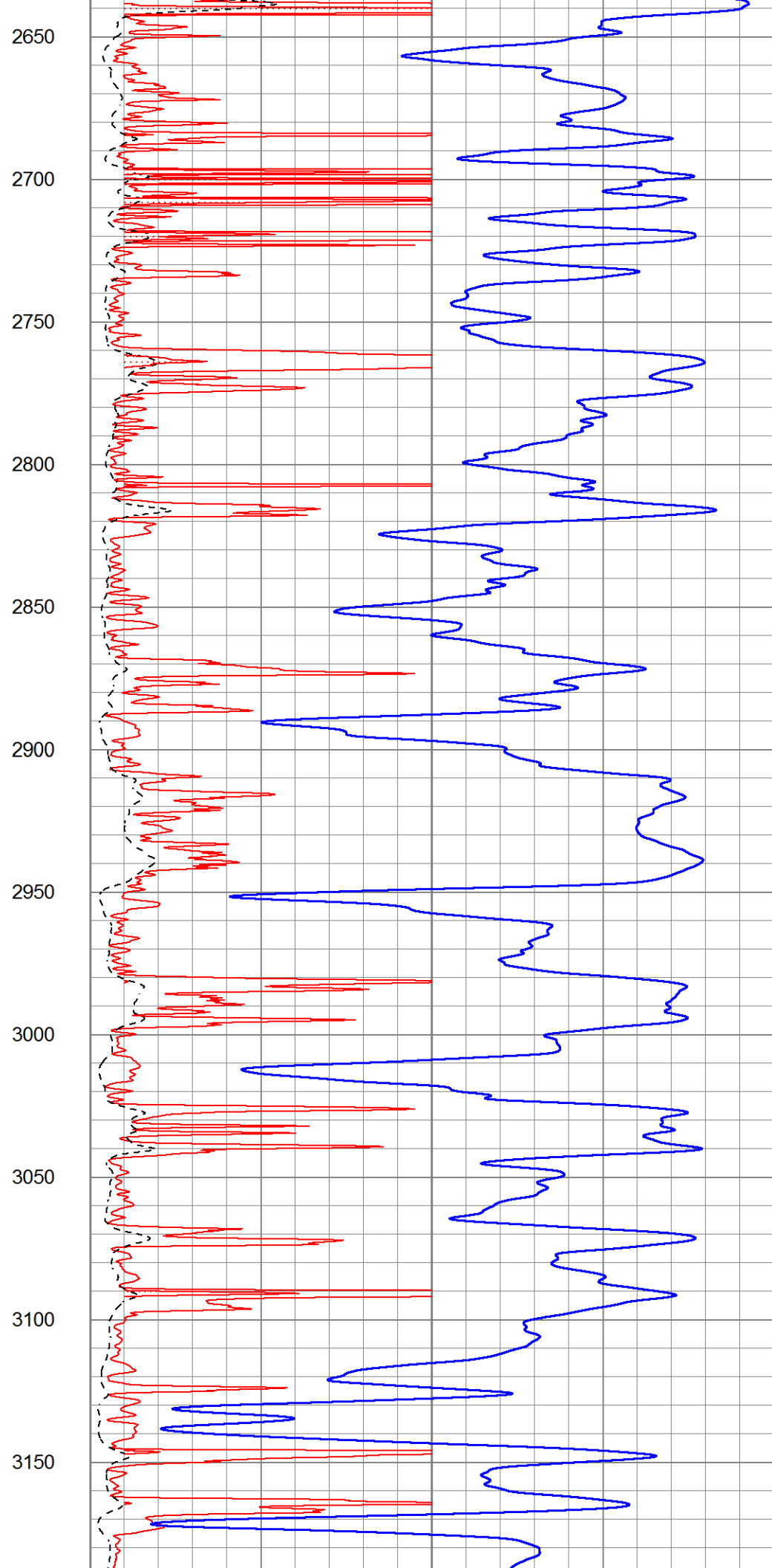
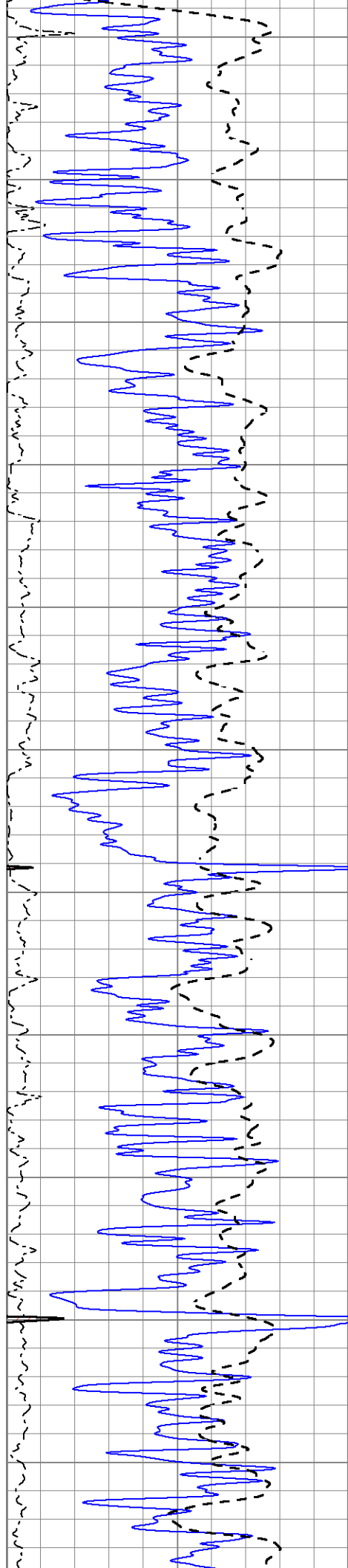
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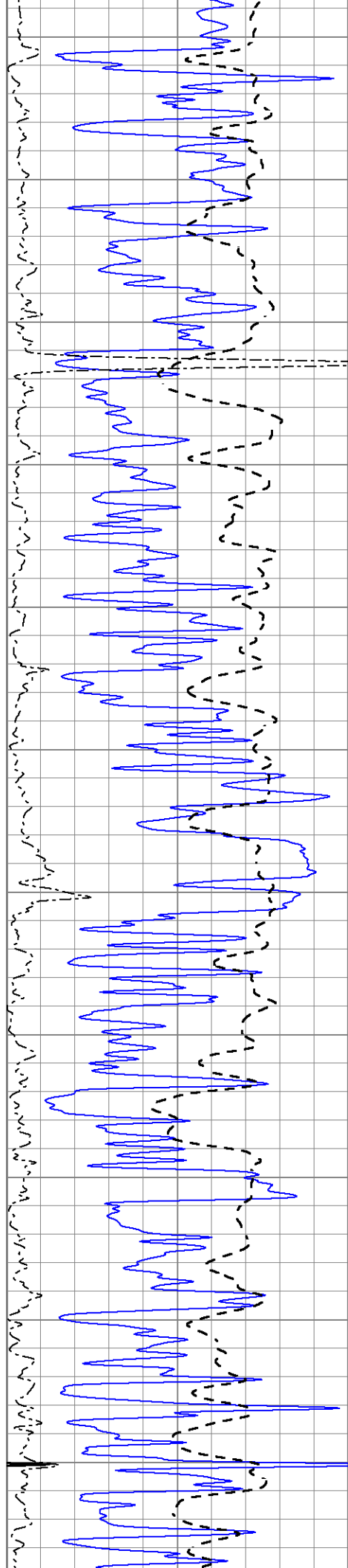
2000

2050









3200

3250

3300

3350

3400

3450

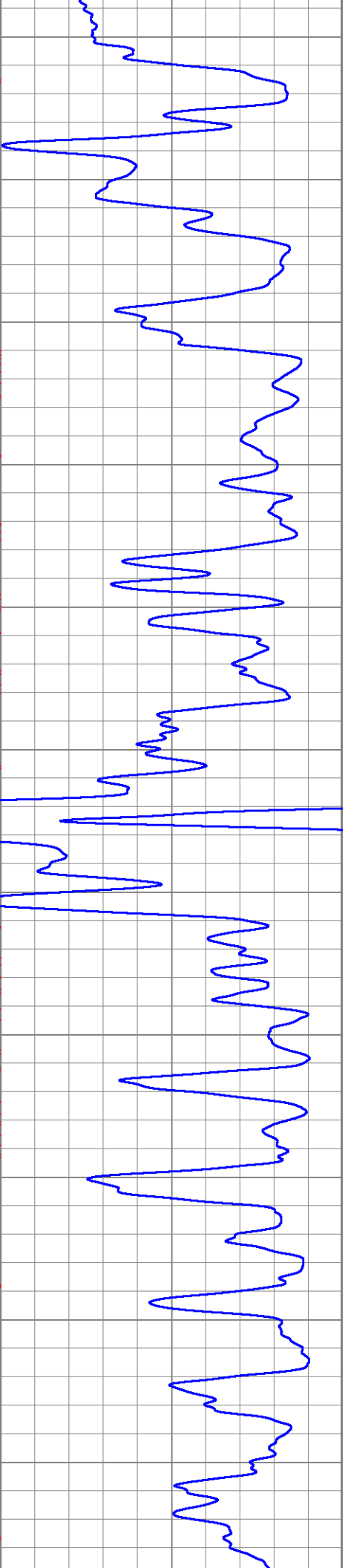
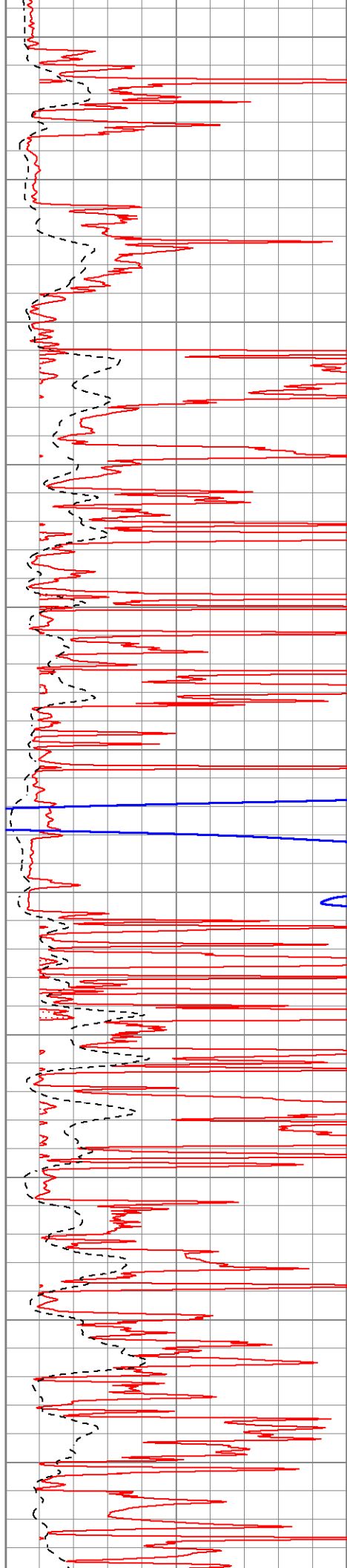
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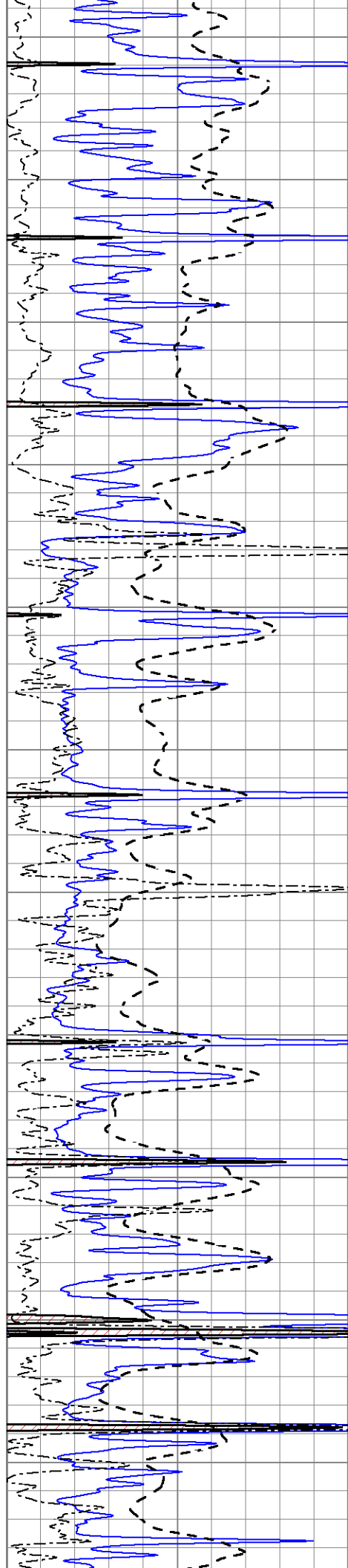
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3700





3750

3800

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3900

3950

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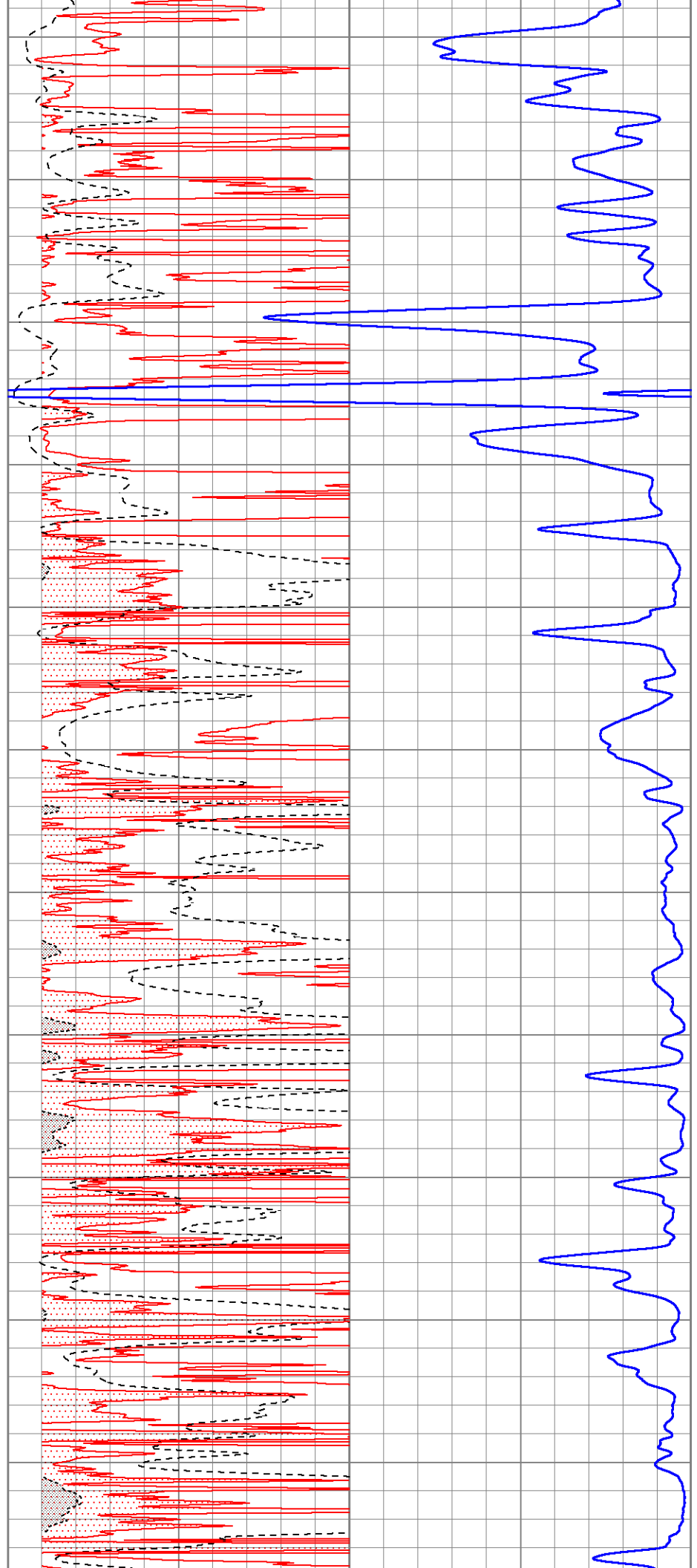
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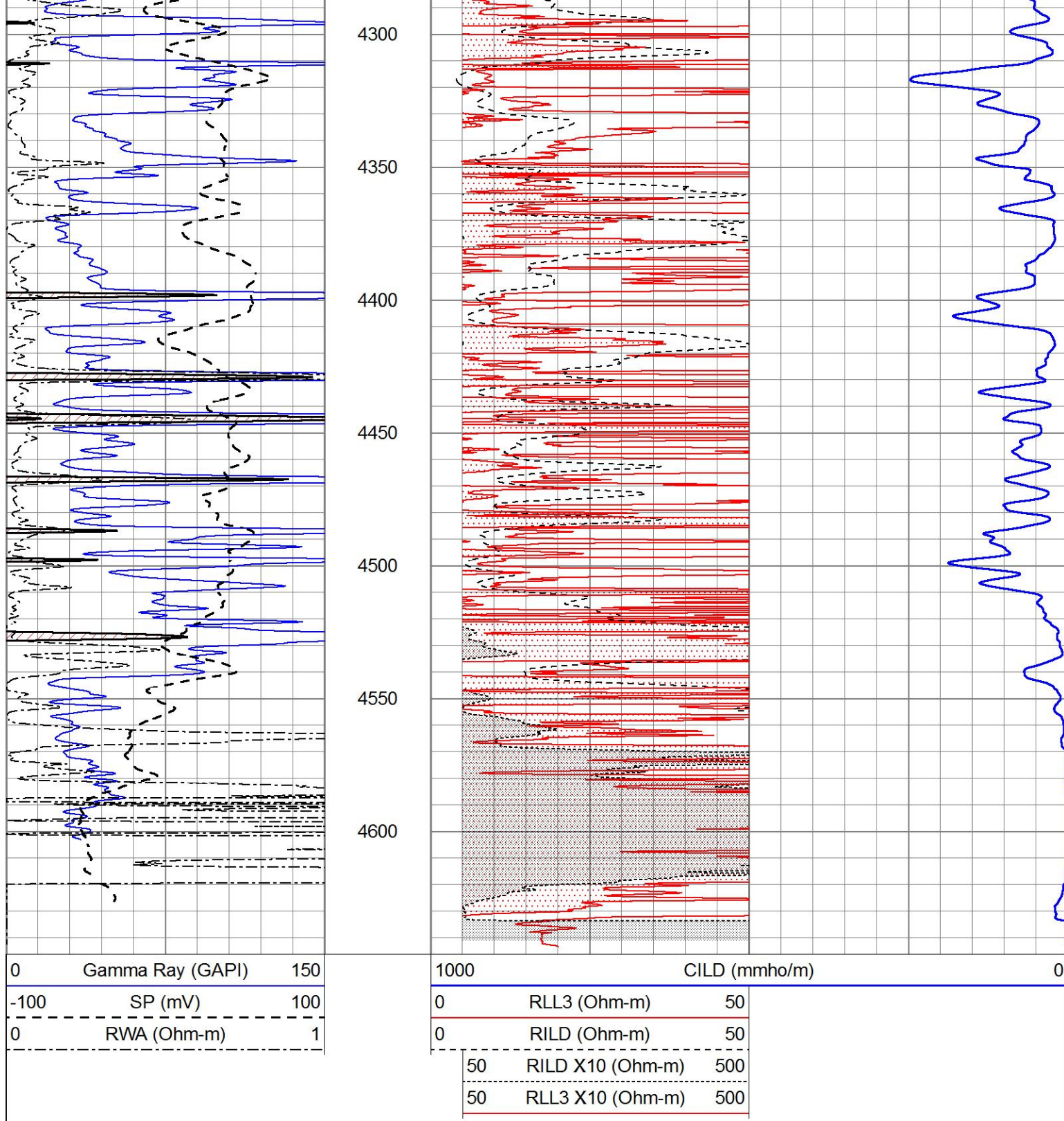
4100

4150

4200

4250



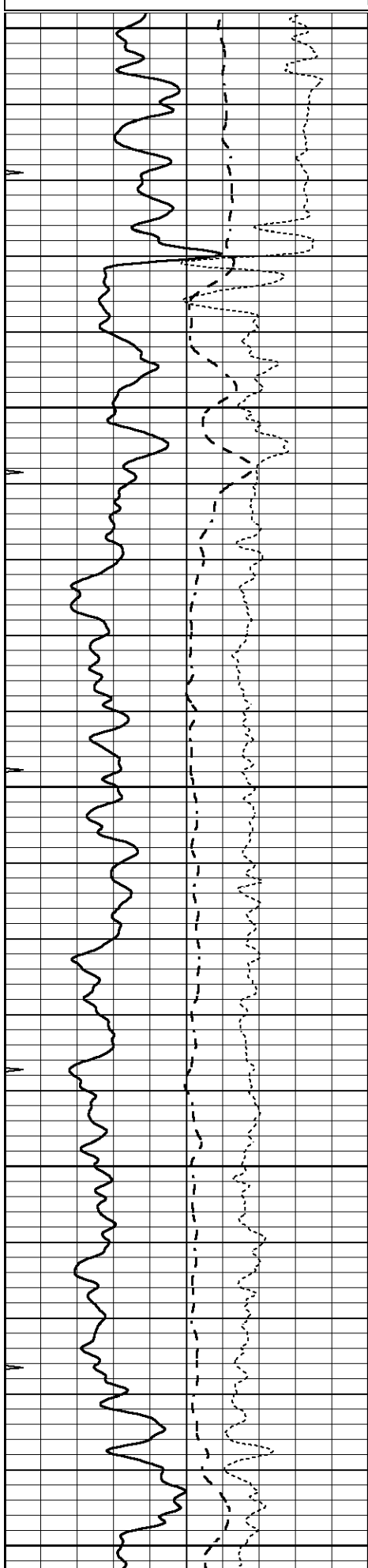


MAIN SECTION

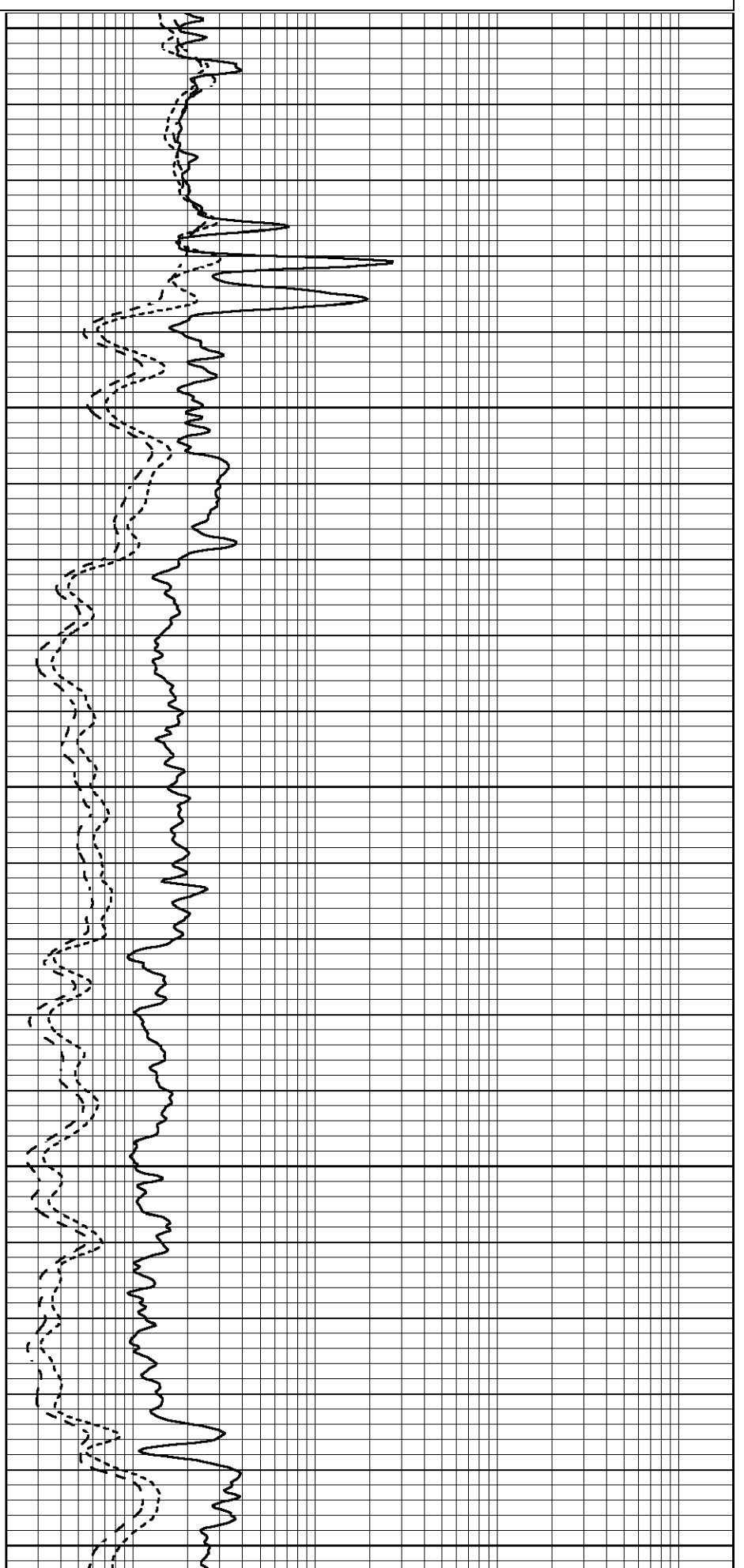
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 Dataset Pathname pass3.1M
 Presentation Format _dil
 Dataset Creation Fri Sep 03 05:58:01 2021
 Charted by Depth in Feet scaled 1:240

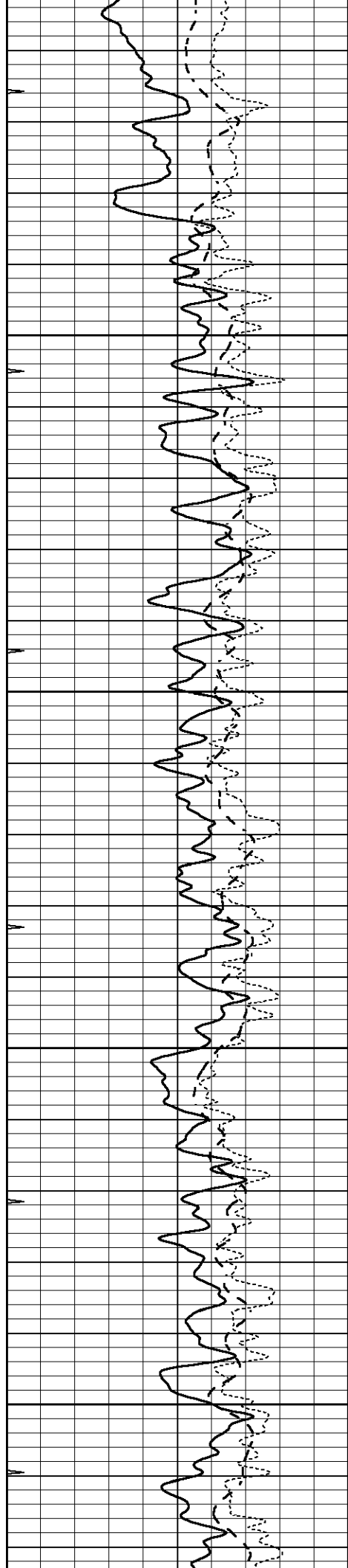


-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20



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



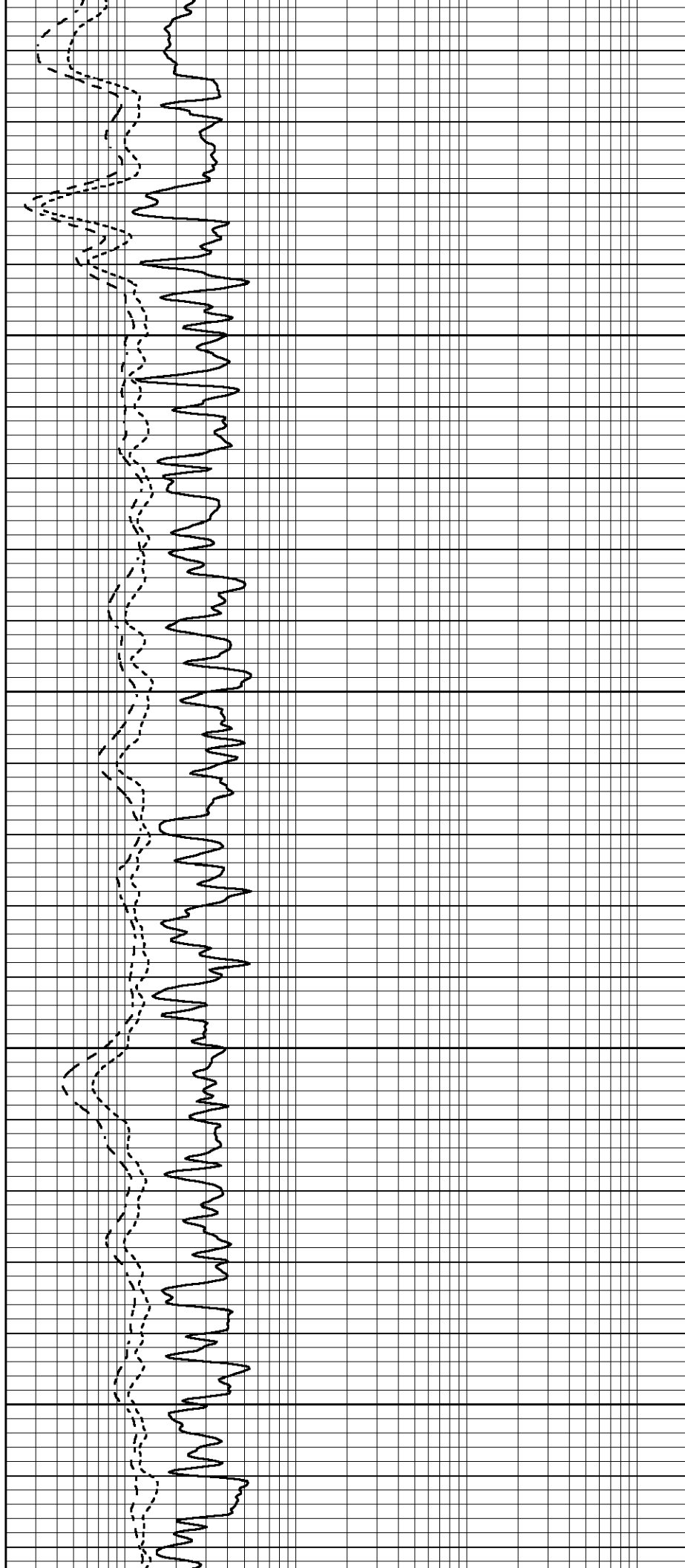


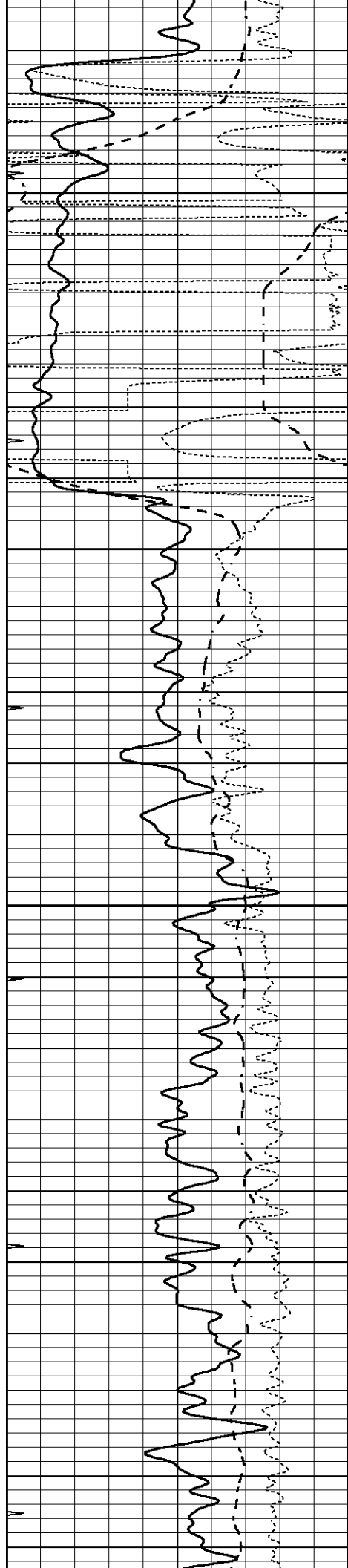
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2100

2150

2200



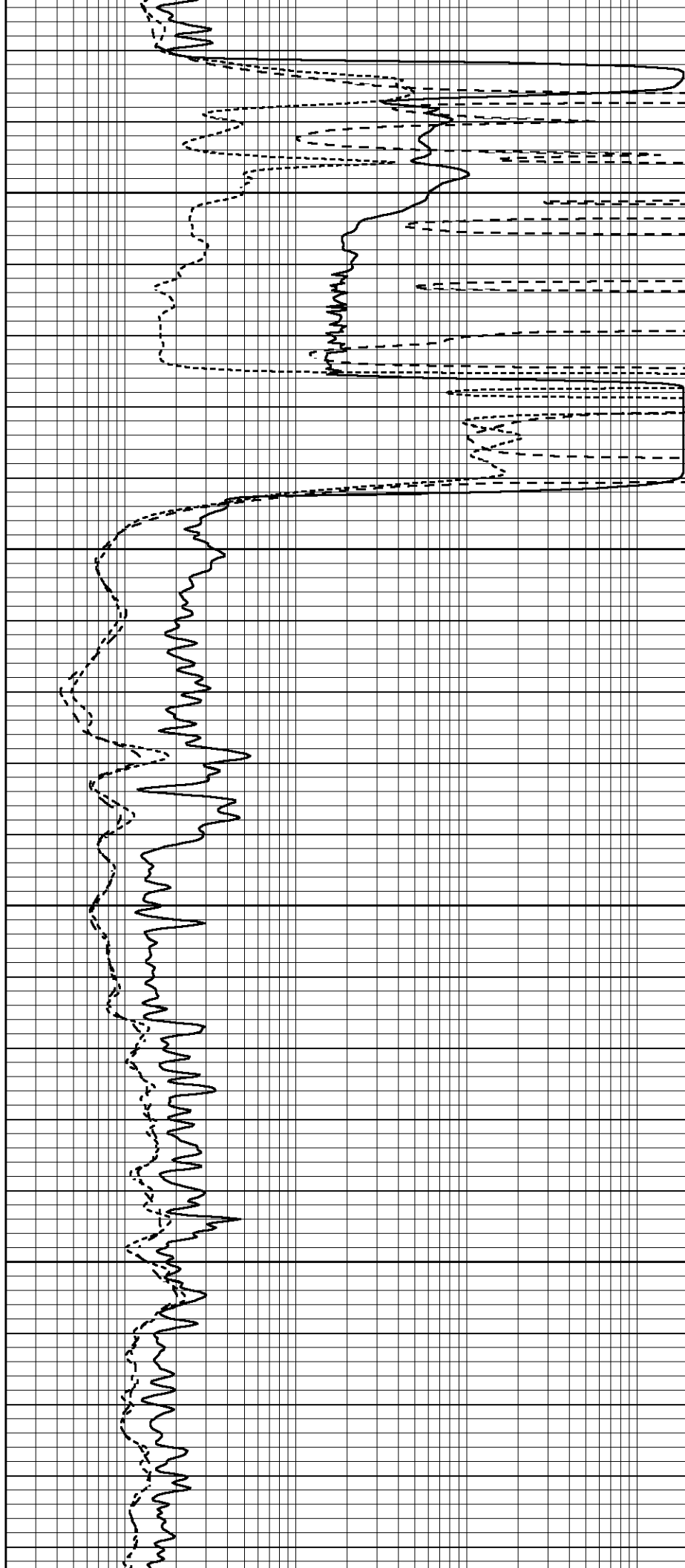


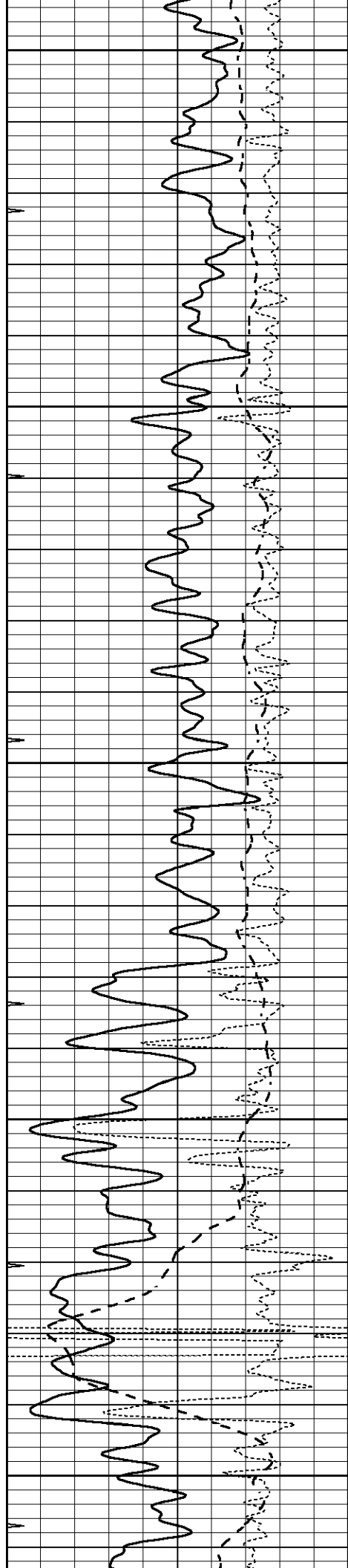
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2400





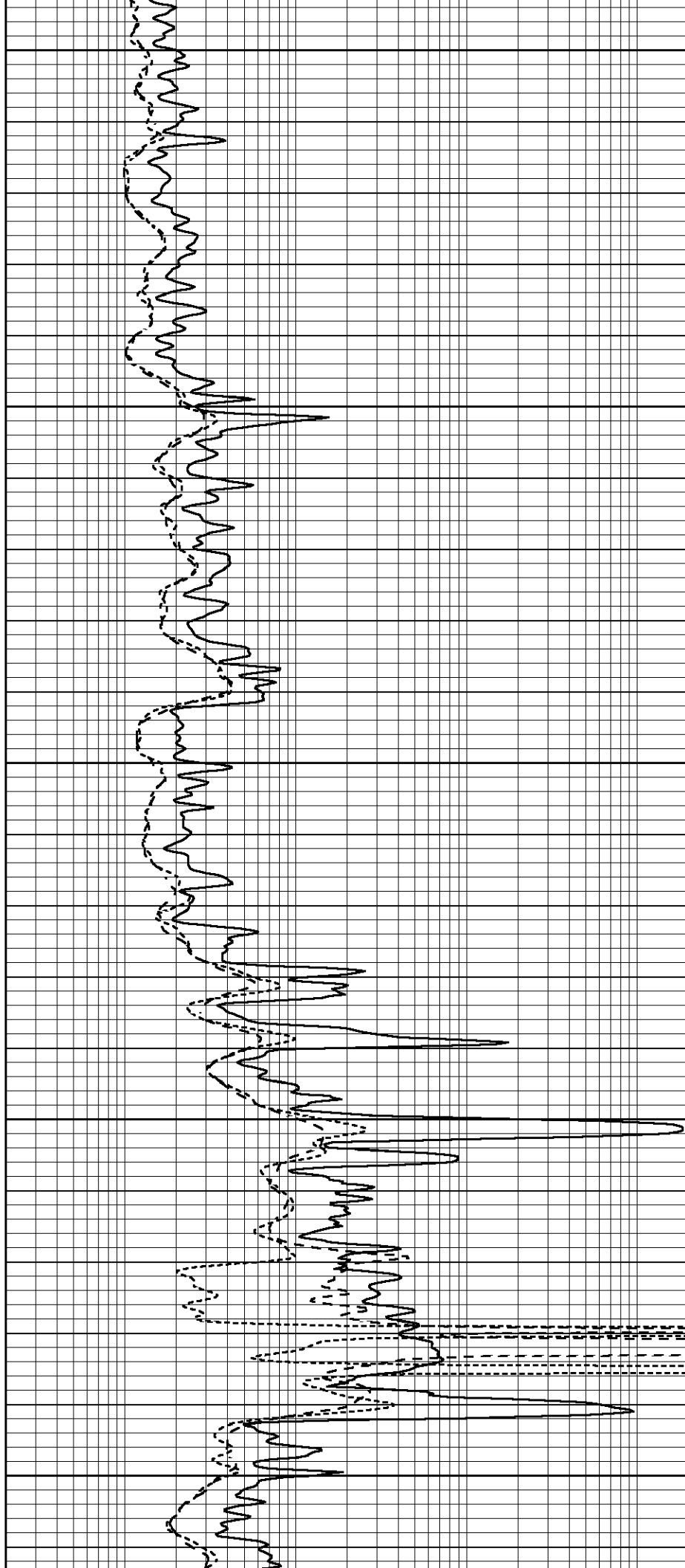
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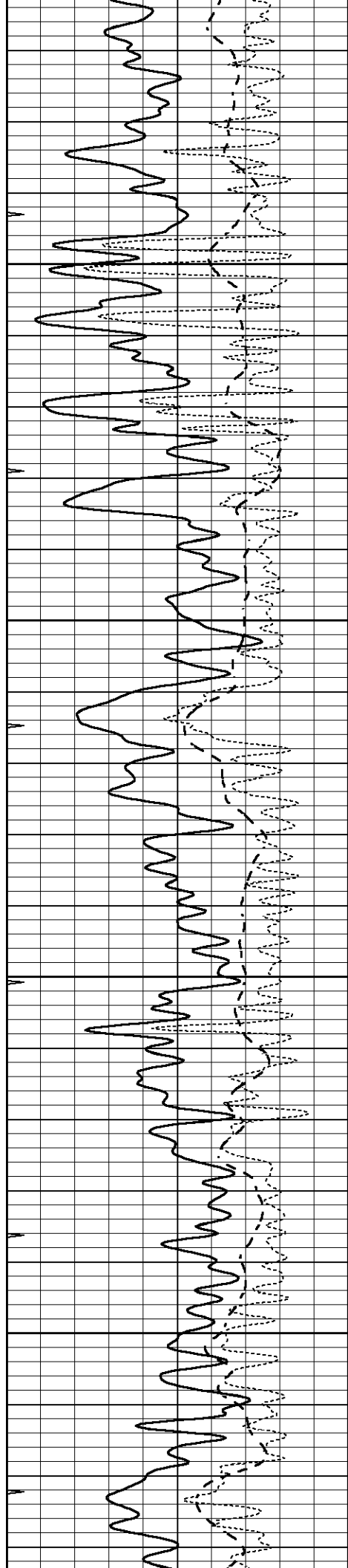
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2600

2650



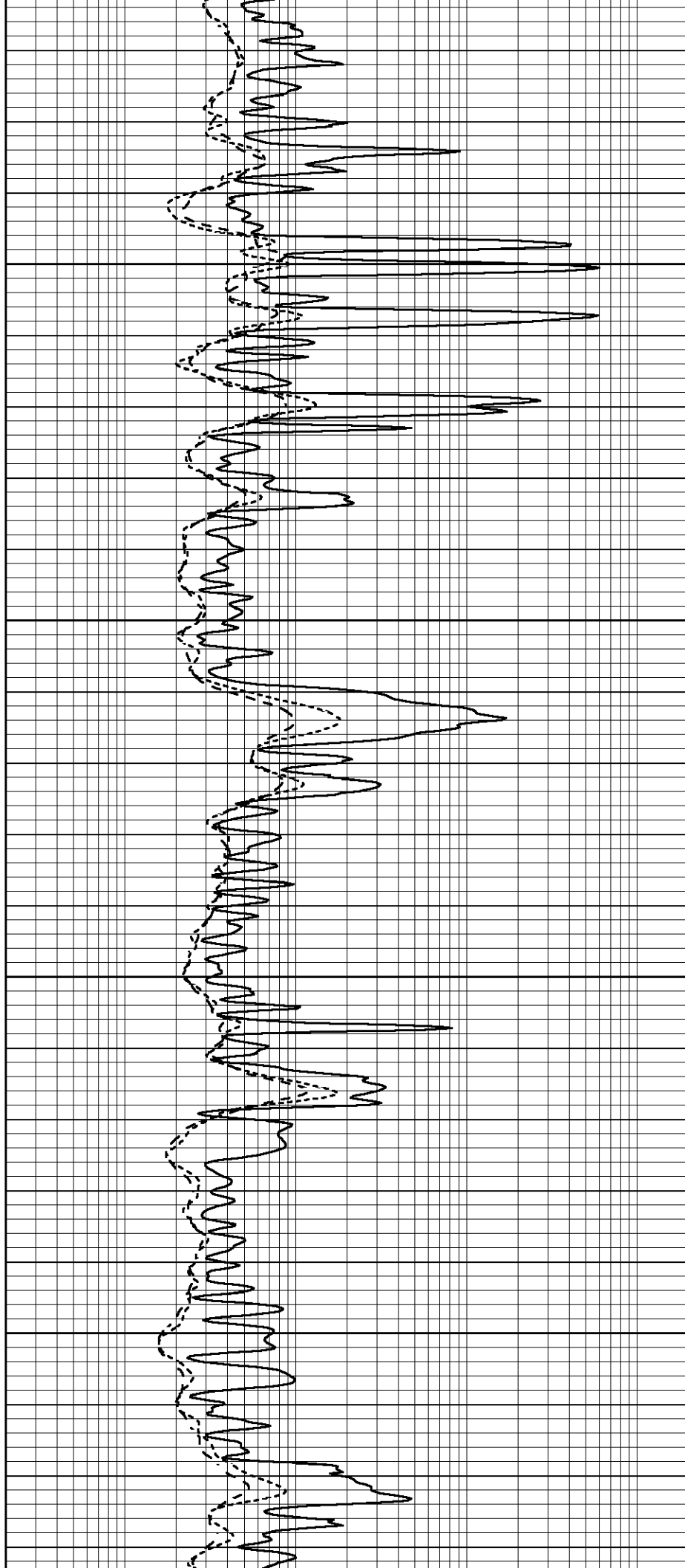


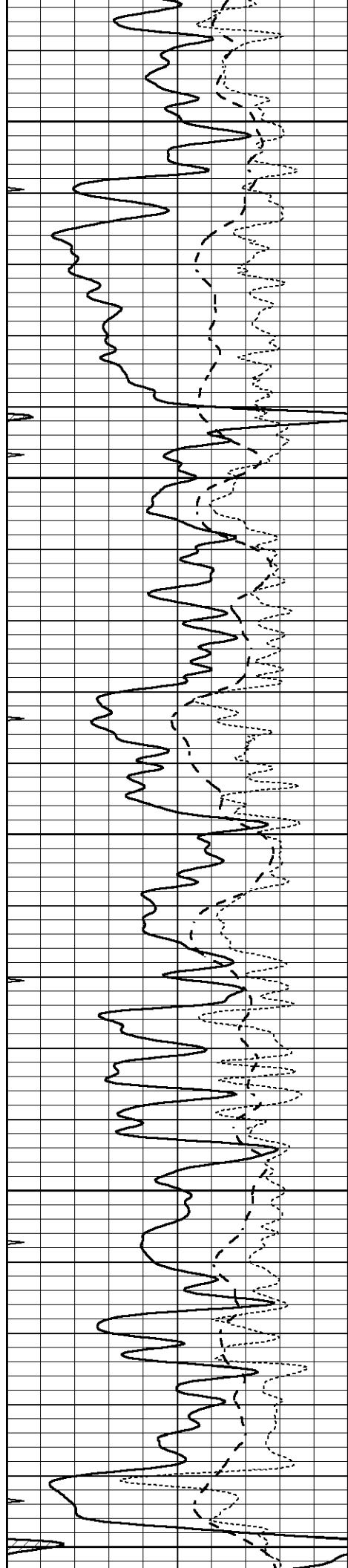
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2750

2800

2850





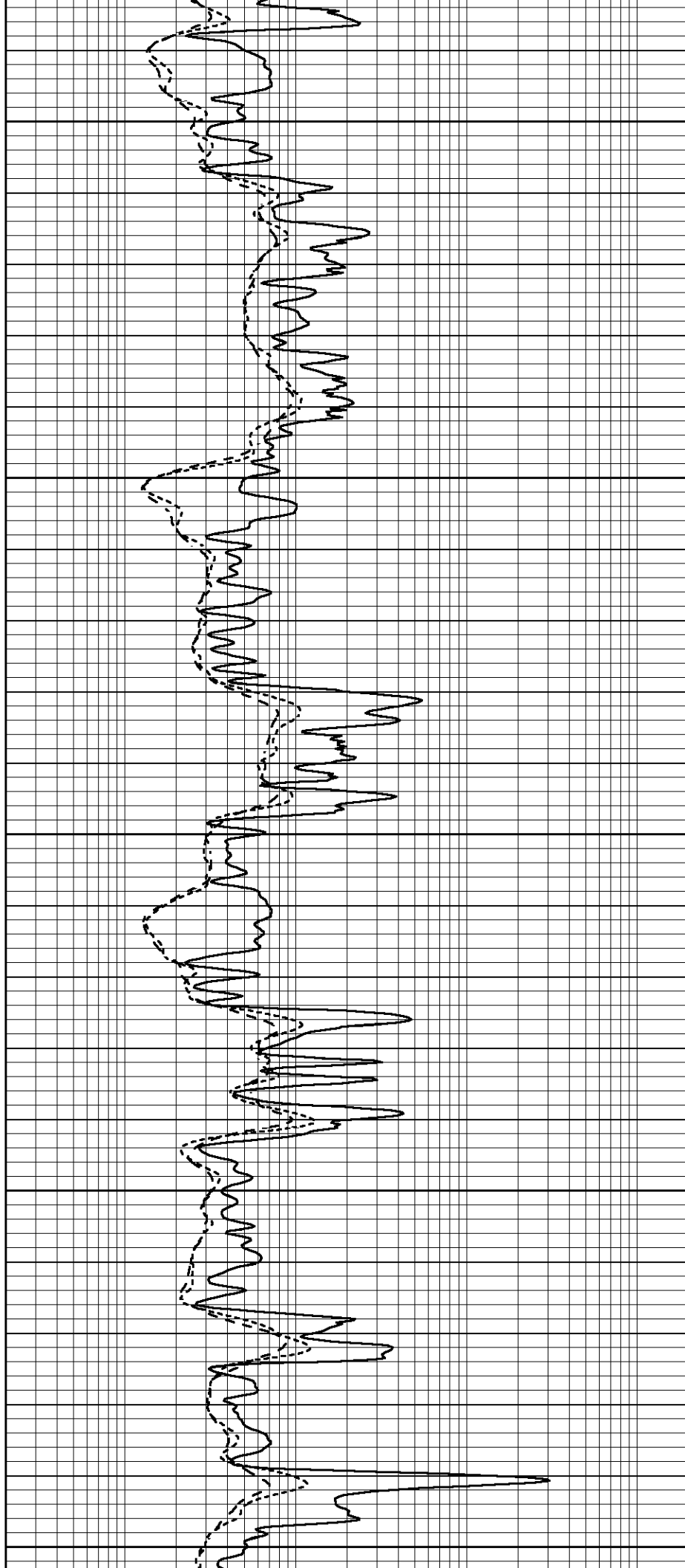
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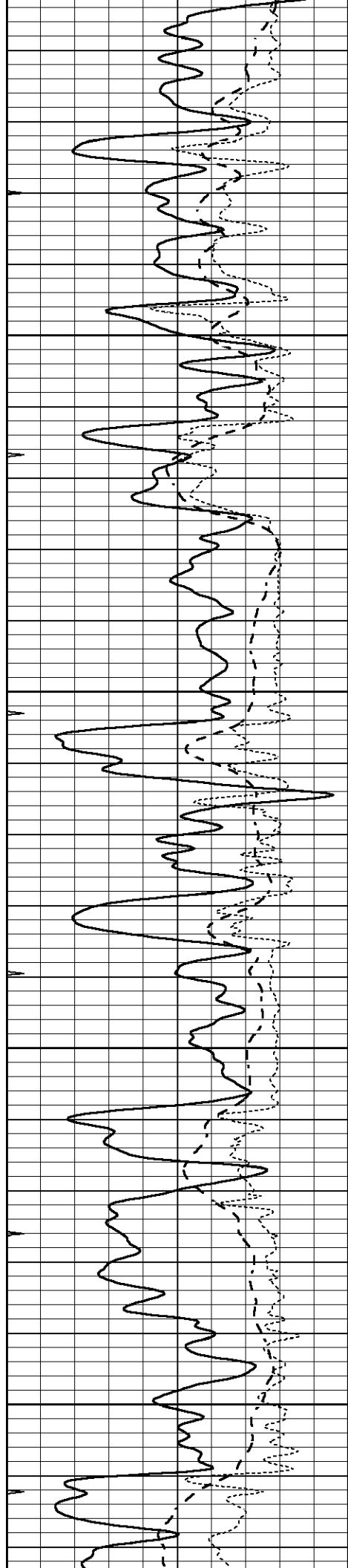
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3000

3050

3100



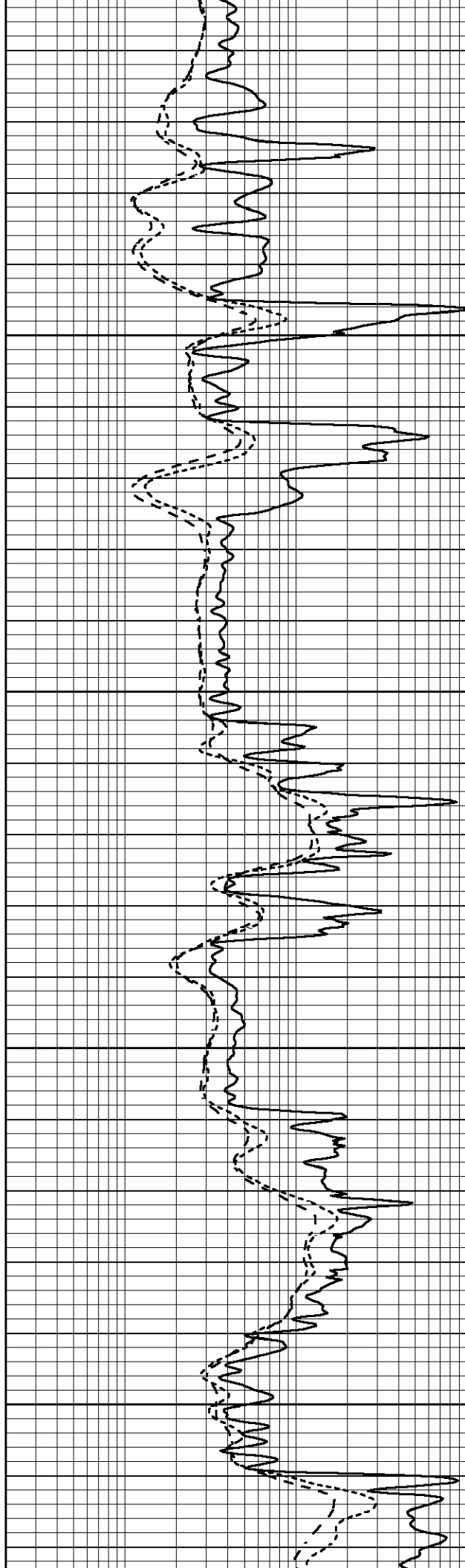


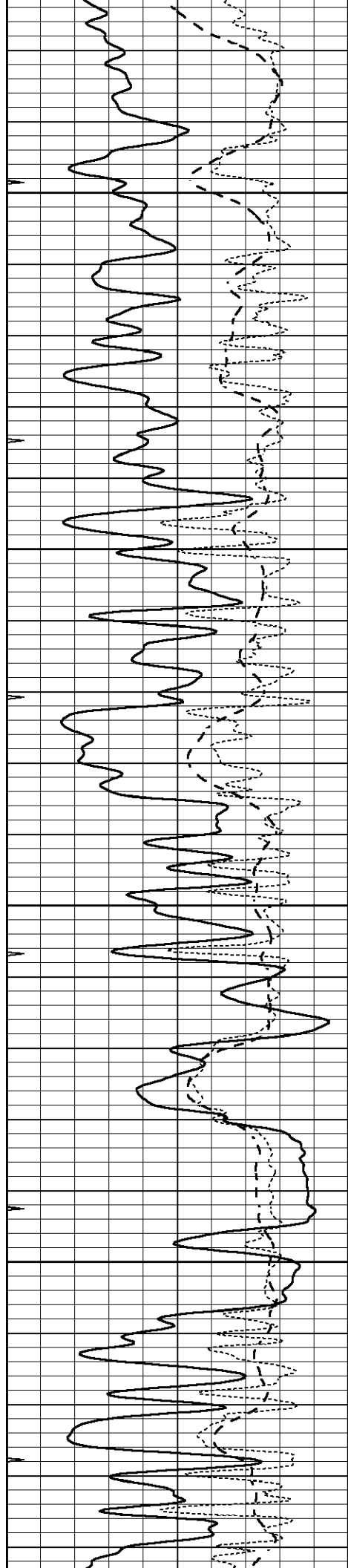
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3200

3250

3300



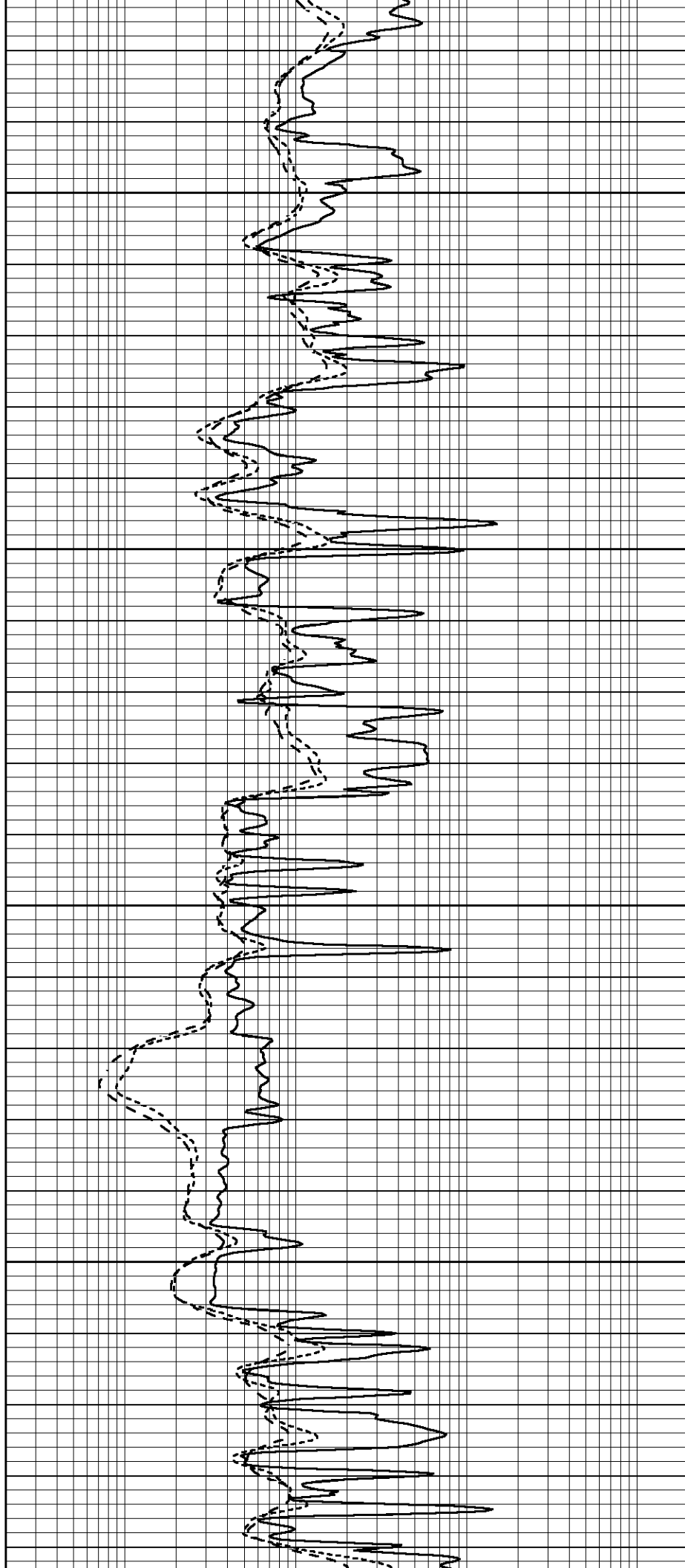


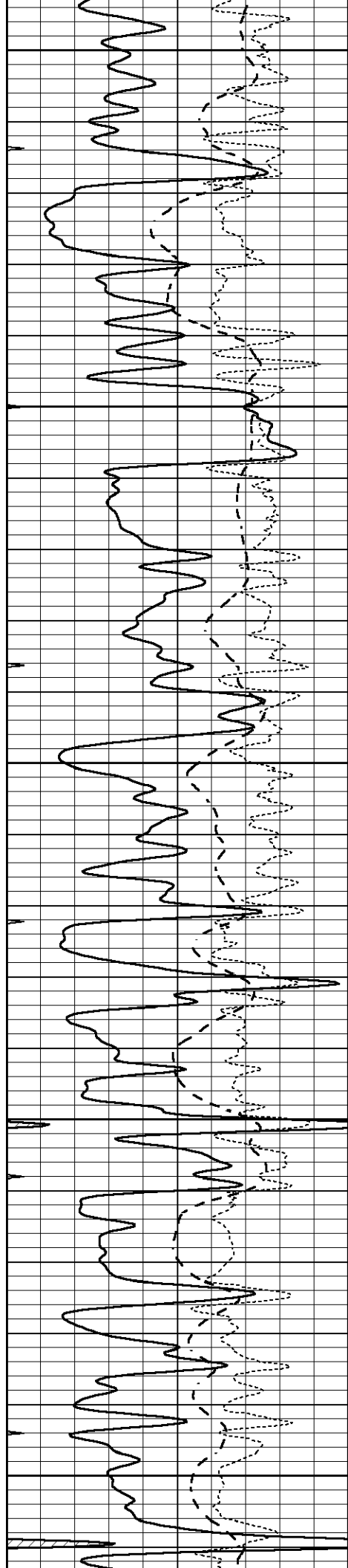
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3400

3450

3500





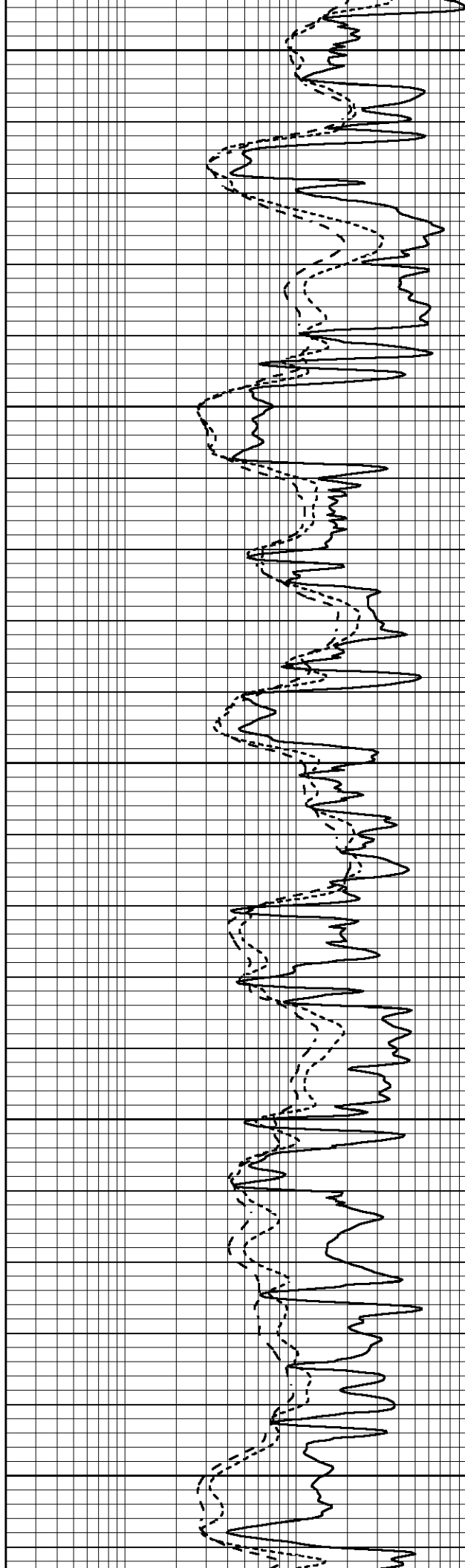
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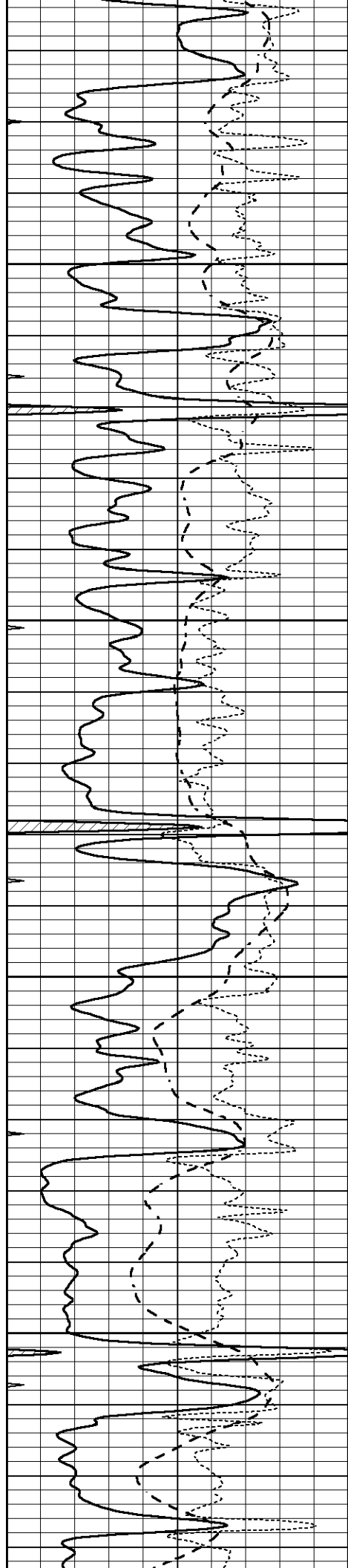
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3700

3750



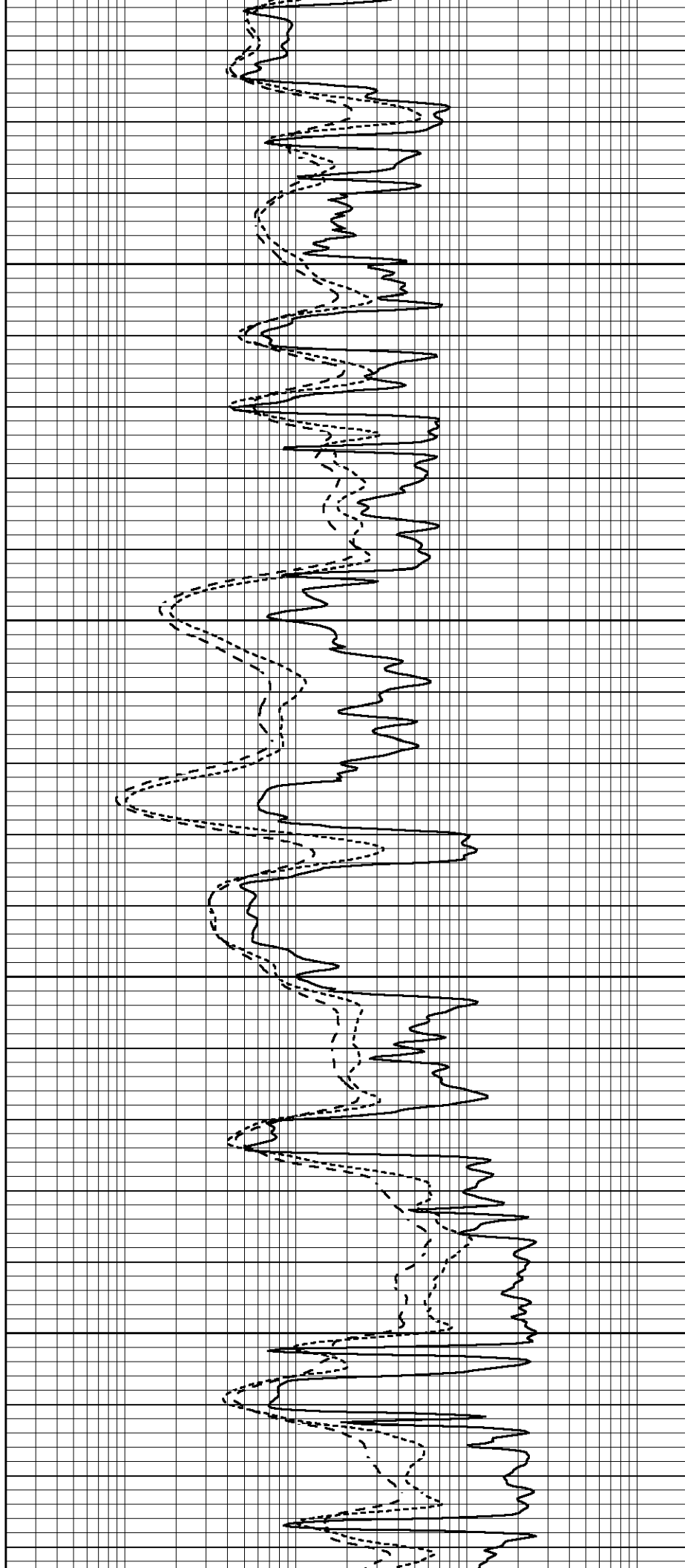


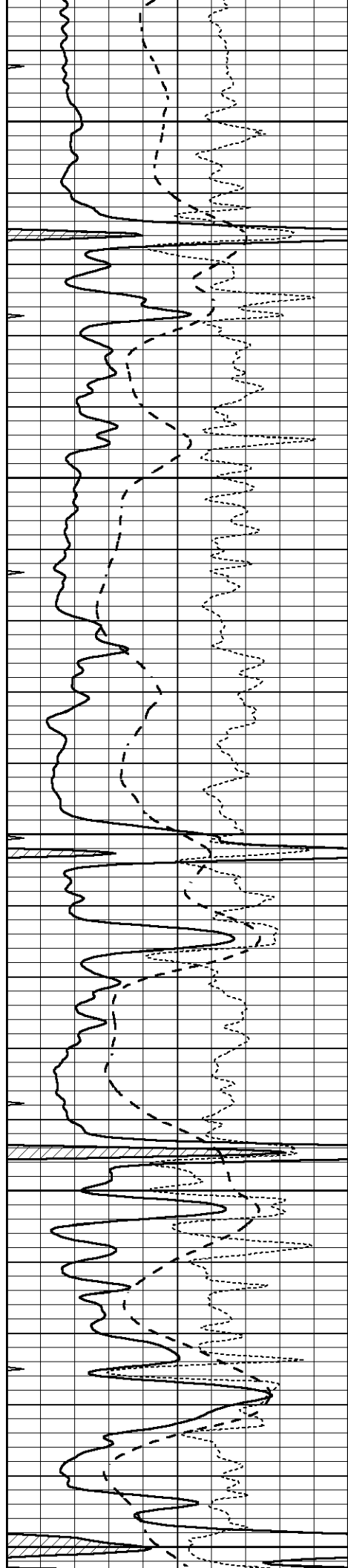
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3900

3950





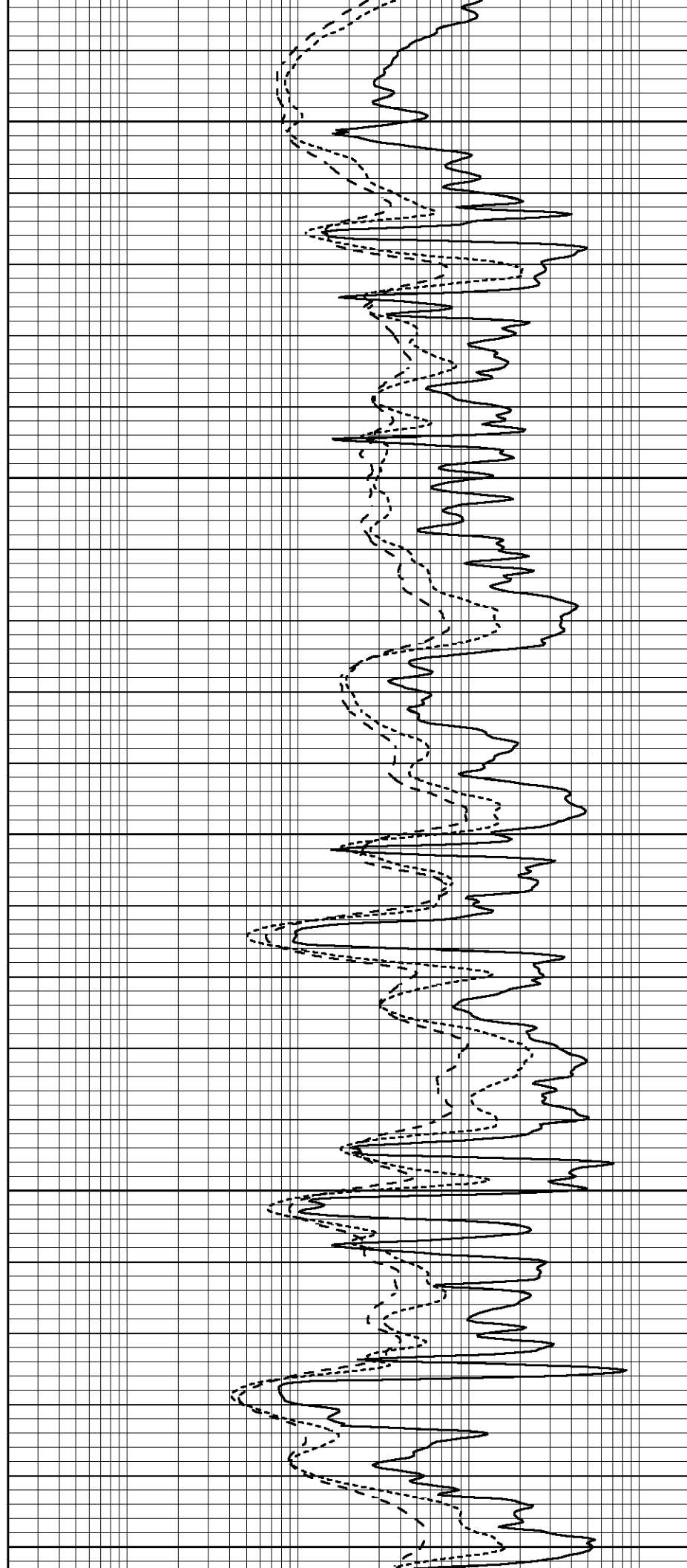
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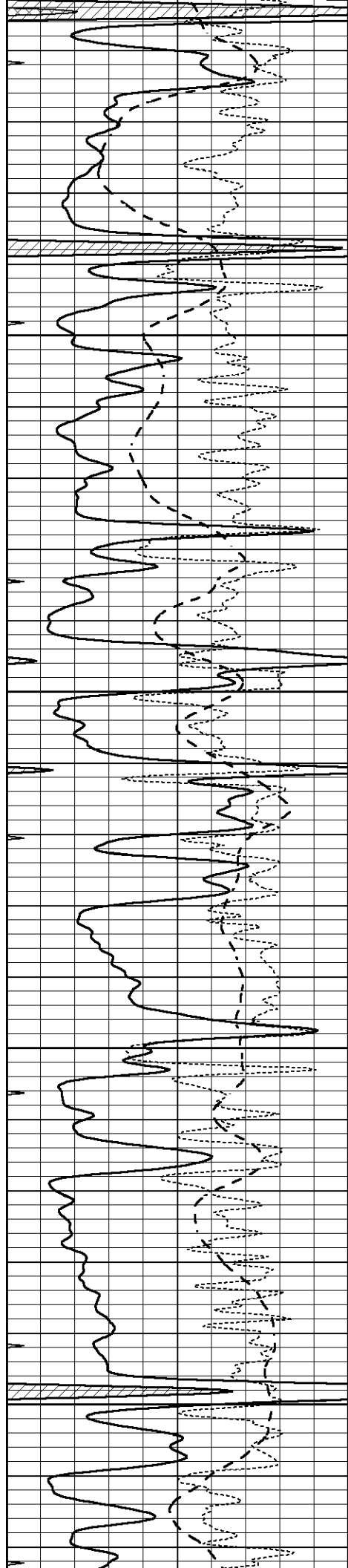
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4100

4150

4200



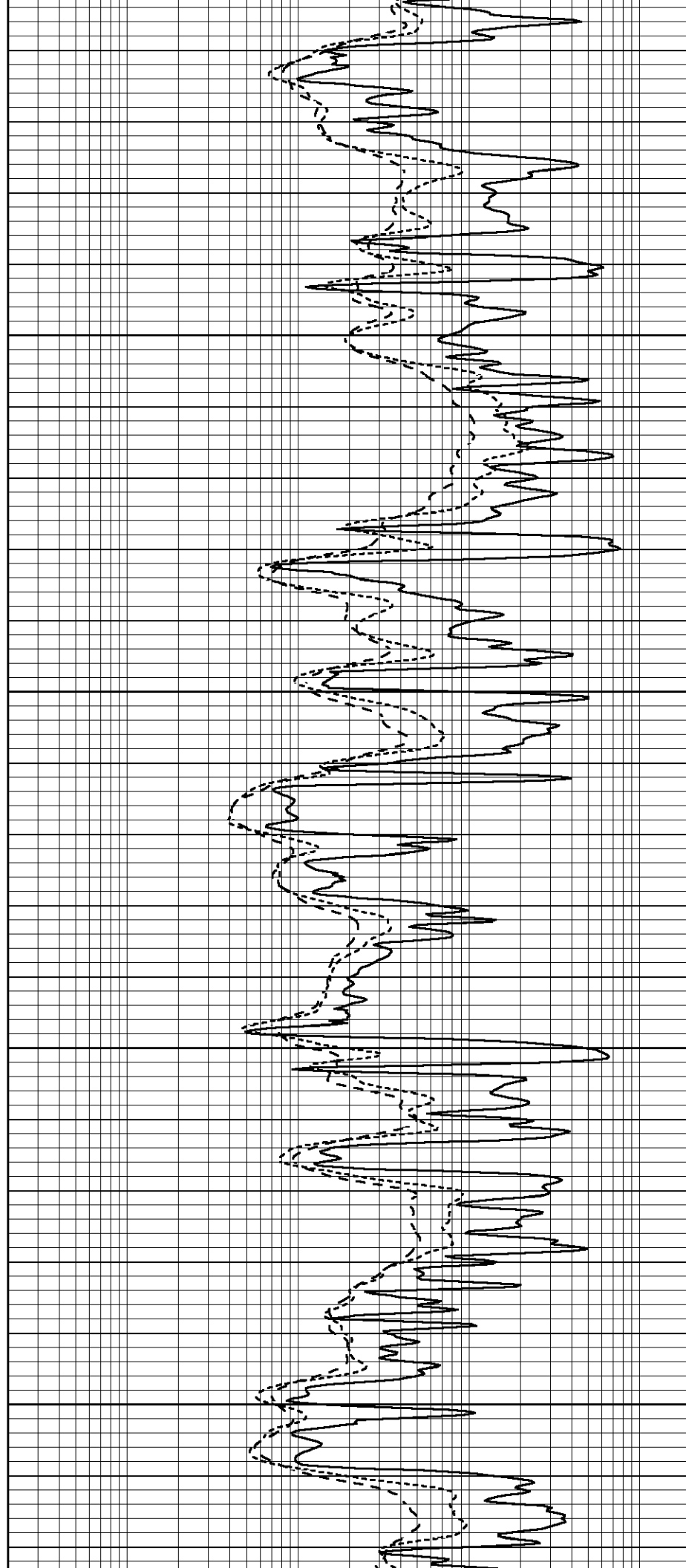


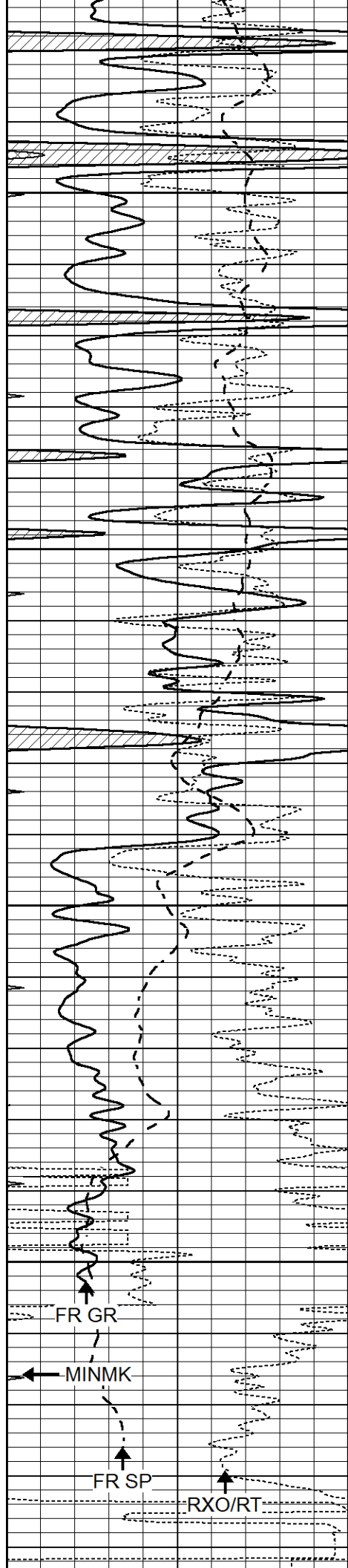
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4300

4350

4400





4450

4500

4550

4600

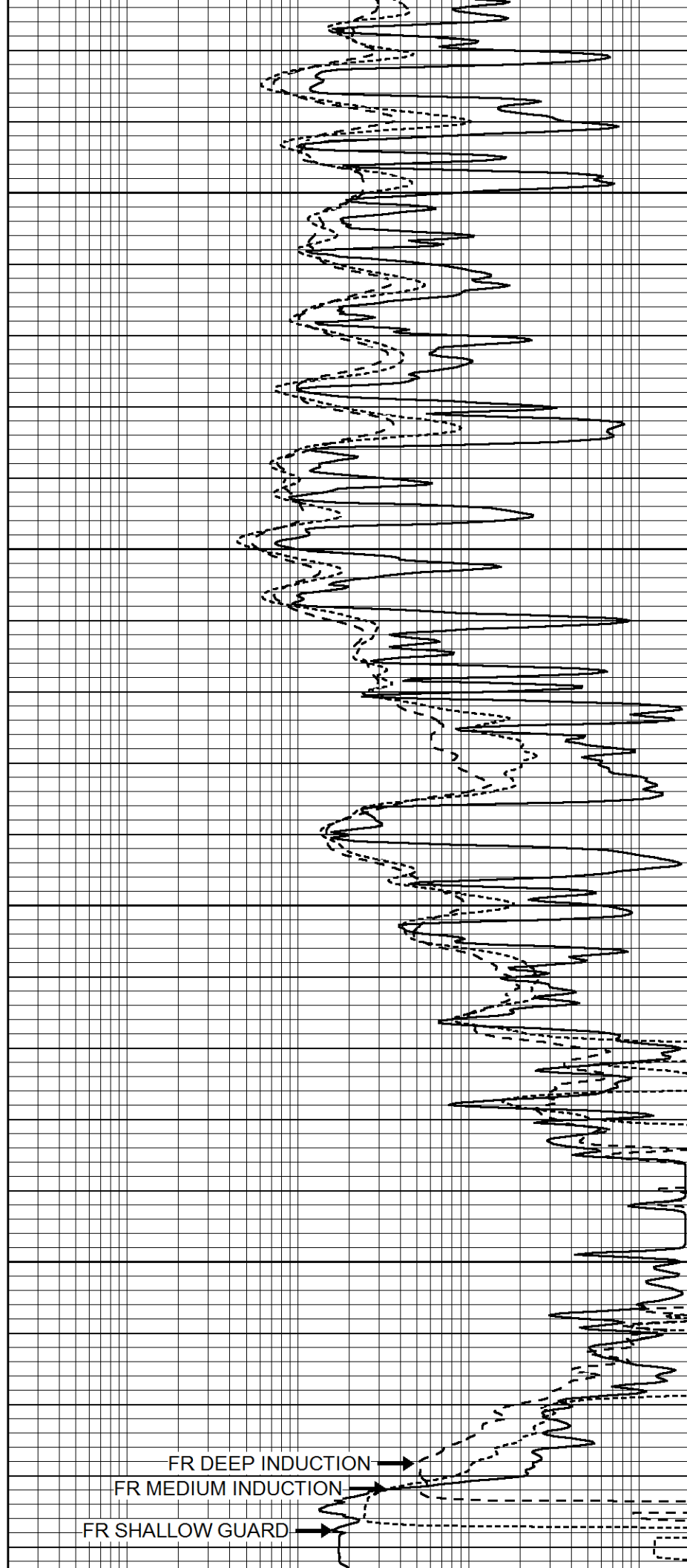
FR GR

MINMK

FR SP

RXO/RT

LTD 4640



FR DEEP INDUCTION

FR MEDIUM INDUCTION

FR SHALLOW GUARD

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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

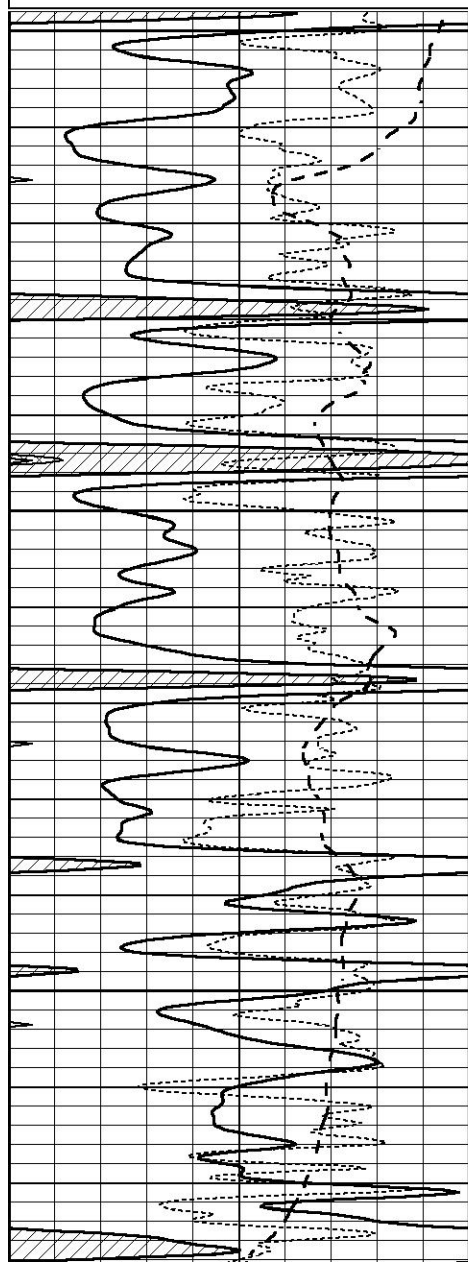


REPEAT SECTION

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 Dataset Pathname pass2.6R
 Presentation Format _dil
 Dataset Creation Fri Sep 03 06:32:28 2021
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

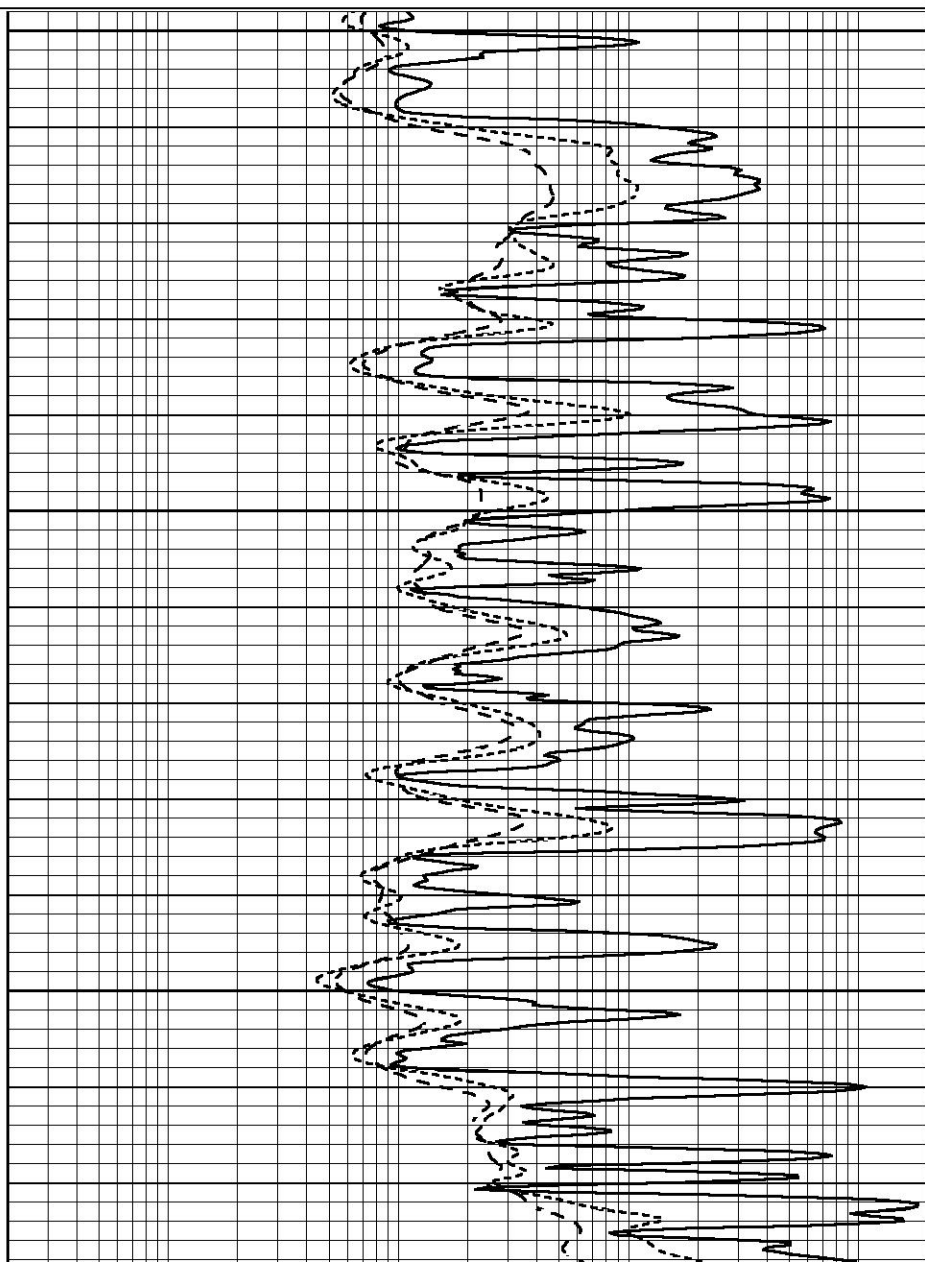
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

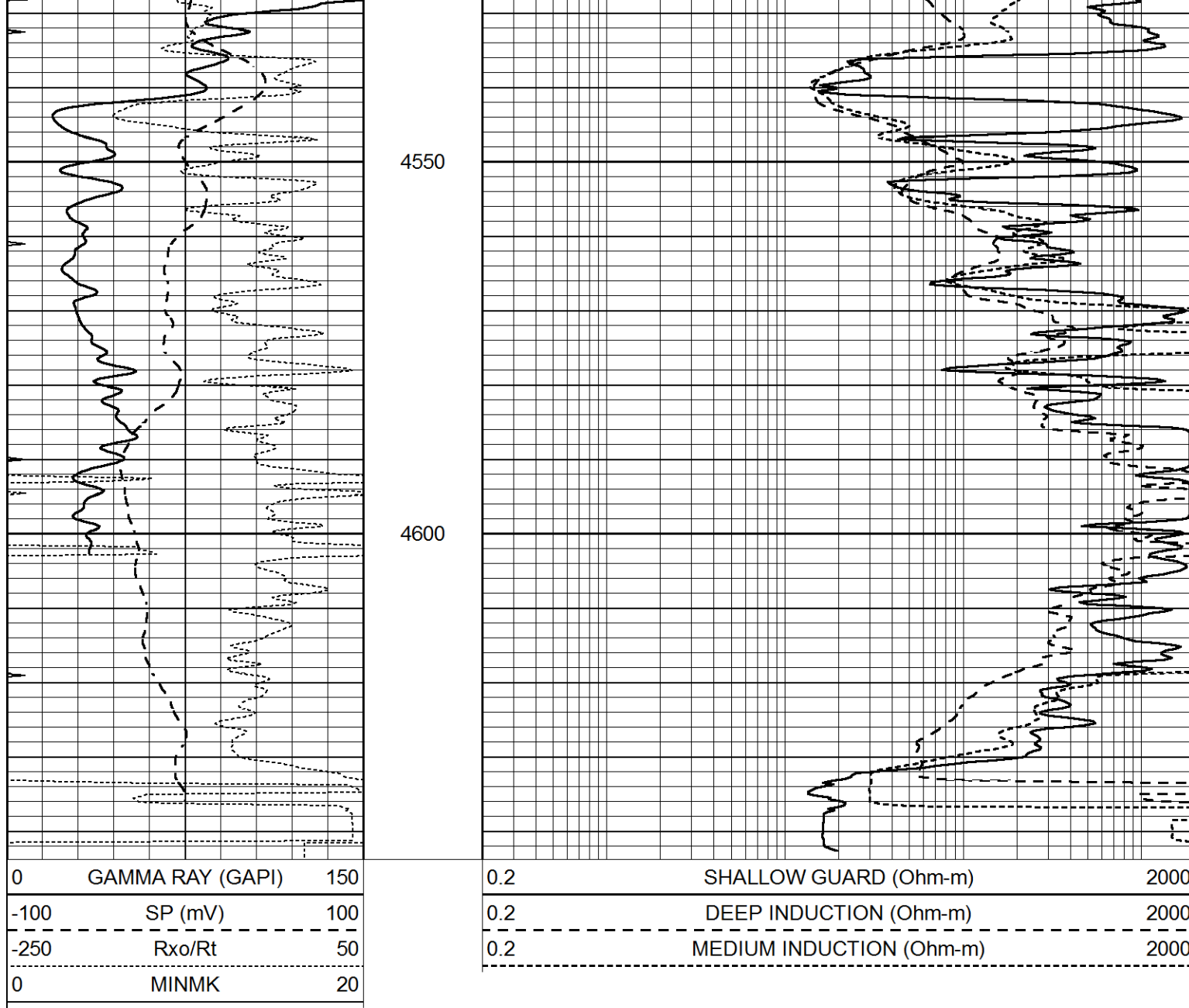


4400

4450

4500





Calibration Report								
Database File	5654pe.db							
Dataset Pathname	pass3.1M							
Dataset Creation	Fri Sep 03 05:58:01 2021							
Dual Induction Calibration Report								
Serial-Model:			PROBE9-DILG					
Surface Cal Performed:			Fri Sep 03 04:37:37 2021					
Downhole Cal Performed:			Wed Mar 11 11:31:19 2020					
After Survey Verification Performed:			Wed Mar 11 11:31:22 2020					
Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	720.000	-12.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	720.000	-20.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration									
			Readings		References		Results		
			Zero	Cal			m'	b'	
					Zero	Cal			
Deep	0.000	0.000	mmho/m		14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m		166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V			1400.000	Ohm-m		
		0.000	V			20.000	Ohm-m		
		-7.200	V			4000.000	mmho-m		

After Survey Verification								
			Readings		Targets		Results	
			Zero	Cal	Zero	Cal	m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report								
			Serial: 003		Model: PRB			

Master Calibration			Performed Fri Mar 05 10:51:07 2021					
			Background	Magnesium	Aluminum	Aluminum+Fe		
Window 1	1570.6	10682.1			3457.0	3096.9	cps	
Window 2	1451.7	9432.7			3101.4	2816.5	cps	
Window 3	1334.0	7160.6			2532.0	2369.3	cps	
Window 4	370.4	373.1			366.4	370.9	cps	
Long Space	0.0	7981.0			1649.7	1364.8	cps	
Short Space	2.8	3522.0			2211.0	1823.6	cps	
Rho		1.7100			2.5900	0.0000	g/cc	
Pe		2.0000			2.7500	5.7900		
Rib Angle	: 43.5	Rib Slope	: 0.951	Density/Spine Ratio	: 0.535			
Spine Angle	: 73.5	Spine Slope	: 3.386	Spine Intercept	: -18.7			

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 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:		070808PMC		
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:	070558			
Tool Model:	OPEN_GR			
Performed:	Fri Sep 03 05:25:49 2021			
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	0.2800	GAPI/cps		