

DUAL INDUCTION LOG

Company	INDIAN OIL COMPANY, INC.		
Well	WARREN #4-35		
Field	MEAIRS		
County	BARBER		
State	KANSAS		
Company	INDIAN OIL COMPANY, INC.		
Well	WARREN #4-35		
Field	MEAIRS		
County	BARBER		
State	KANSAS		
Location:	API #: 15-007-24407-0000 3040' FSL & 2380' FEL NW - SW - SW - NE		Other Services CDL/CNL/PE MEL/SON/FF
Permanent Datum	GROUND LEVEL	Elevation	1644
Log Measured From	KELLY BUSHING12' A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 35	TWP 30S	RGE 12W	
Date	3/13/22		
Run Number	ONE		
Depth Driller	4780		
Depth Logger	4774		
Bottom Logged Interval	4772		
Top Log Interval	00		
Casing Driller	8 5/8"@355'		
Casing Logger	355		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	11,000 PPM
Density / Viscosity	9.6/49		
pH / Fluid Loss	9.0/10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.550@75F		
Rmf @ Meas. Temp	.413@75F		
Rmc @ Meas. Temp	.660@75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.335@123F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:30 P.M.		
Maximum Recorded Temperature	123F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	AARON YOUNG		
	ANTHONY FARRAR		

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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.

15-007-24407-0000

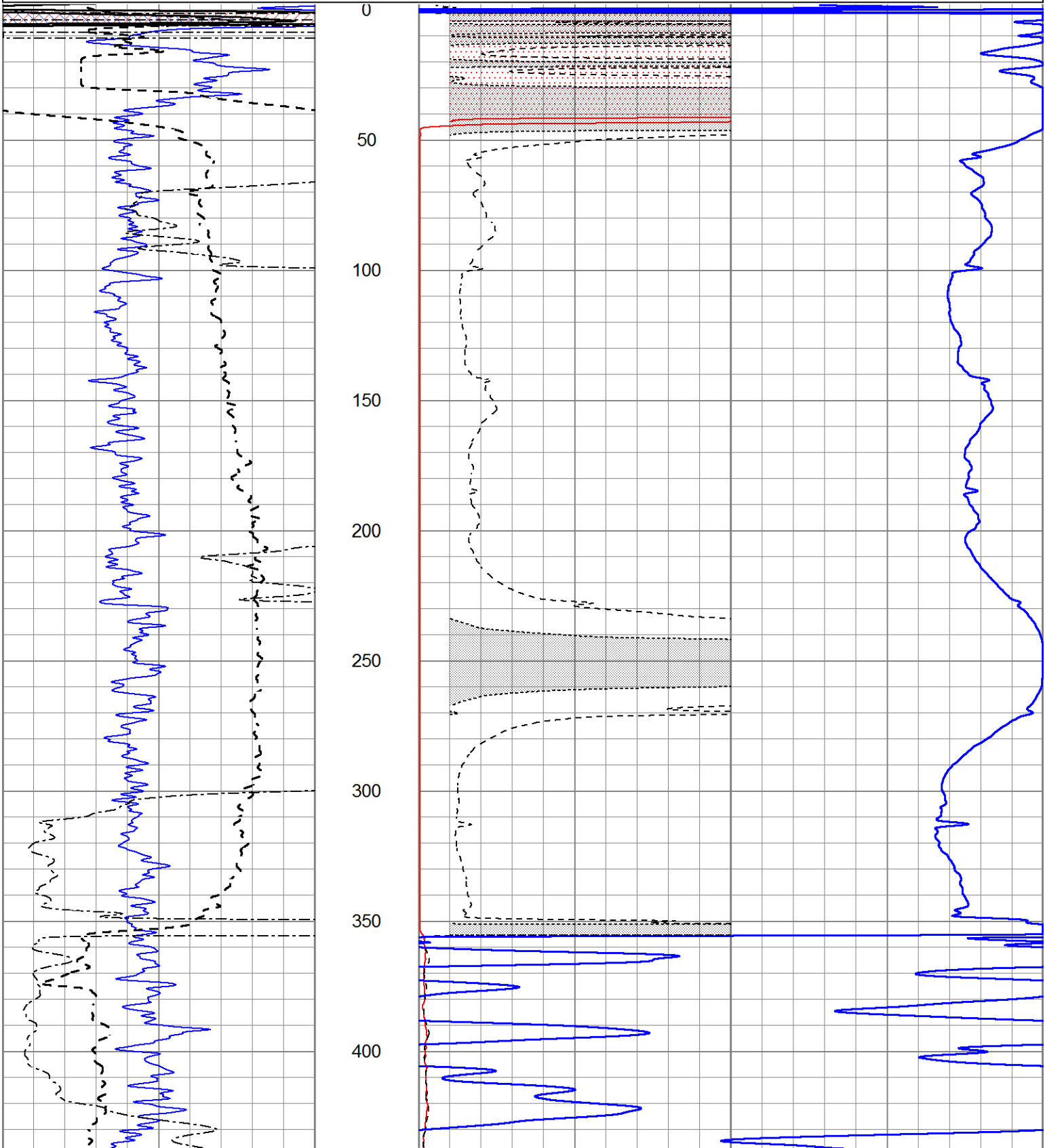
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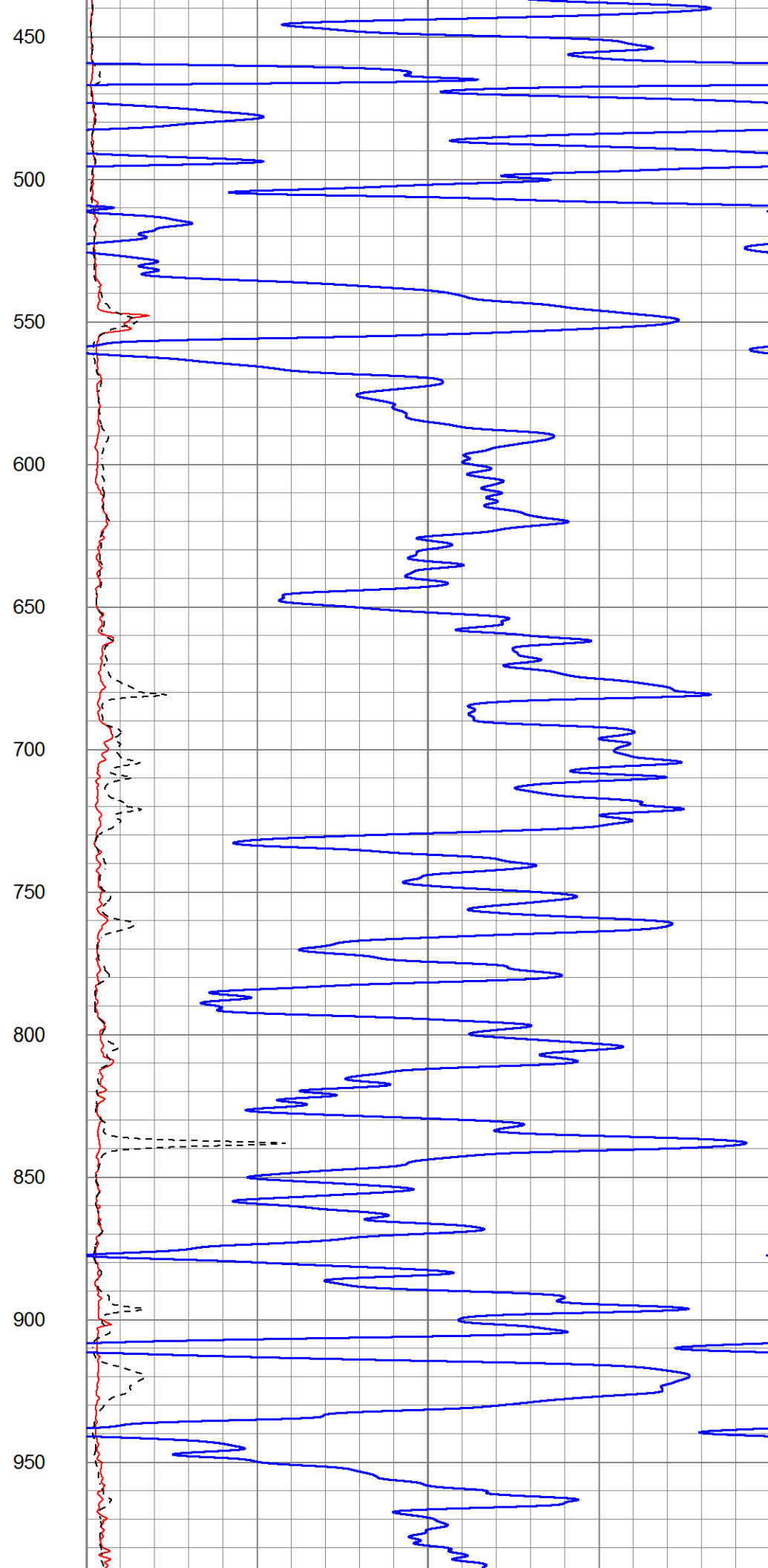
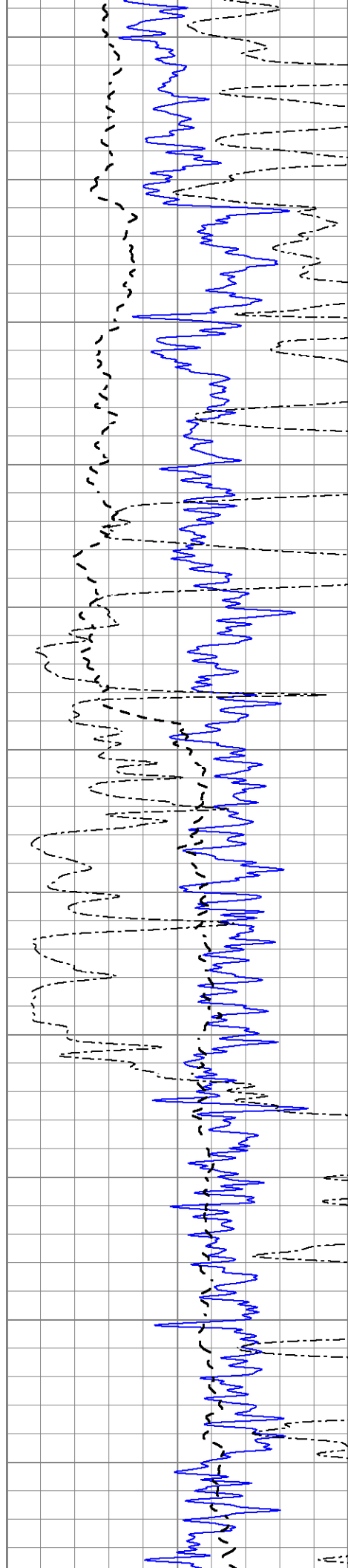
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SAWYER, KS., S. ON HWY 281 TO "AMBER RD., 1E.

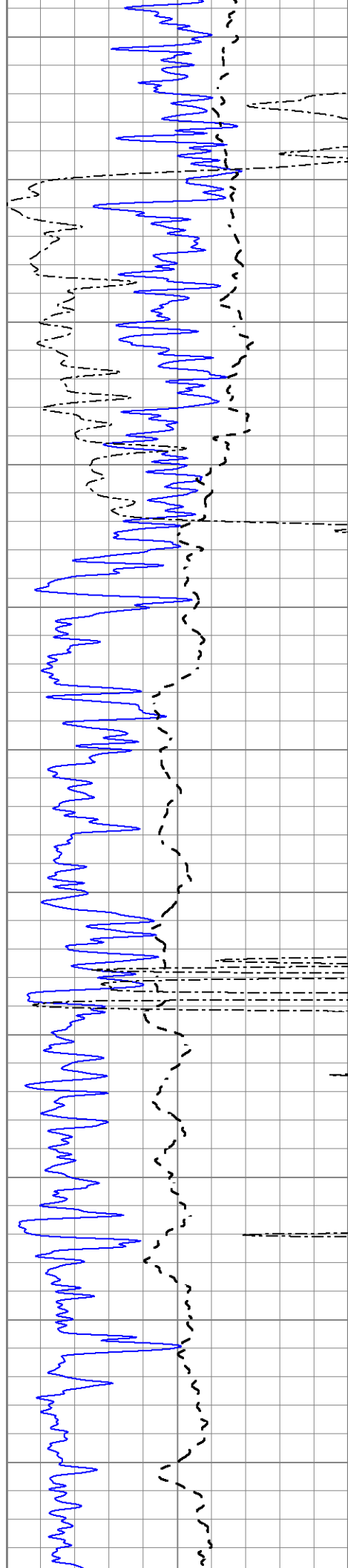


MAIN SECTION

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







1000

1050

1100

1150

1200

1250

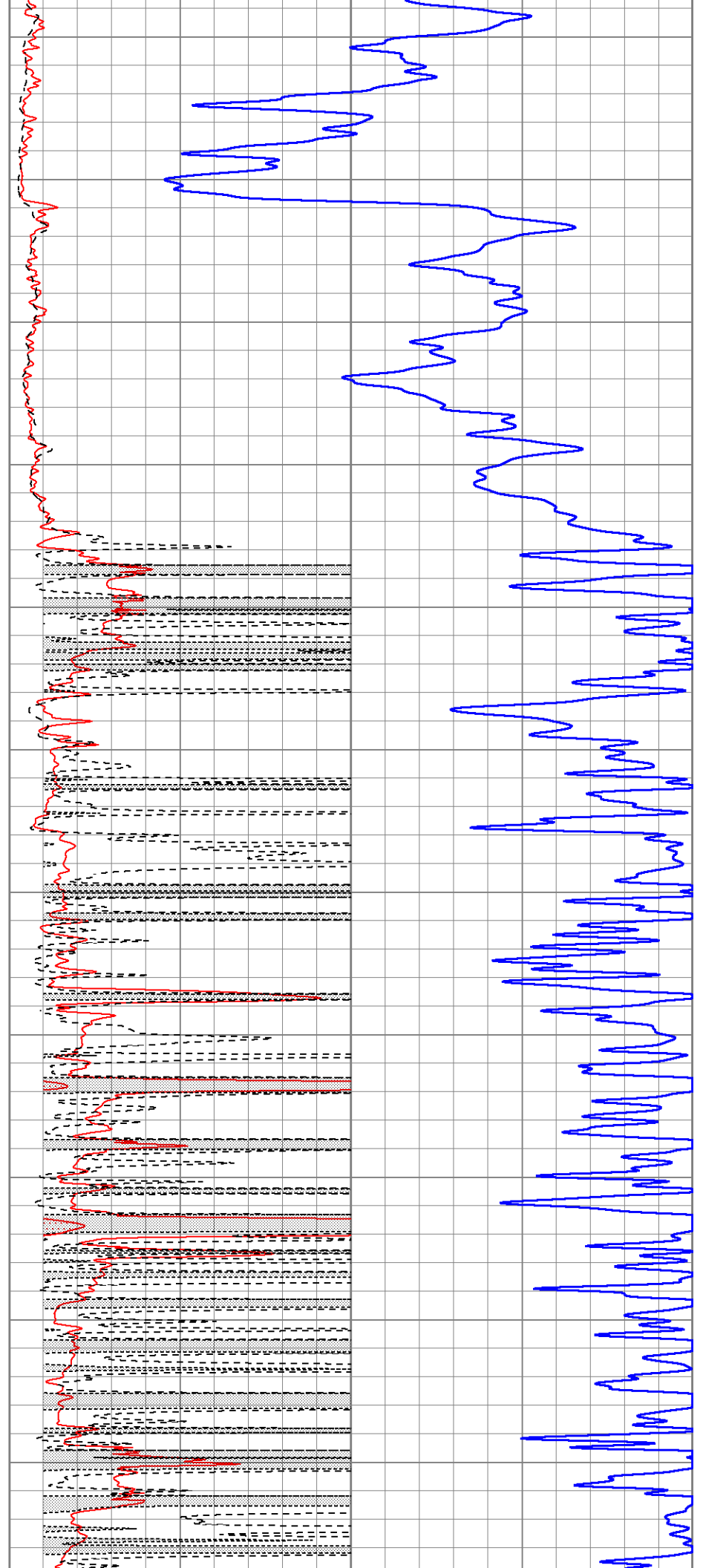
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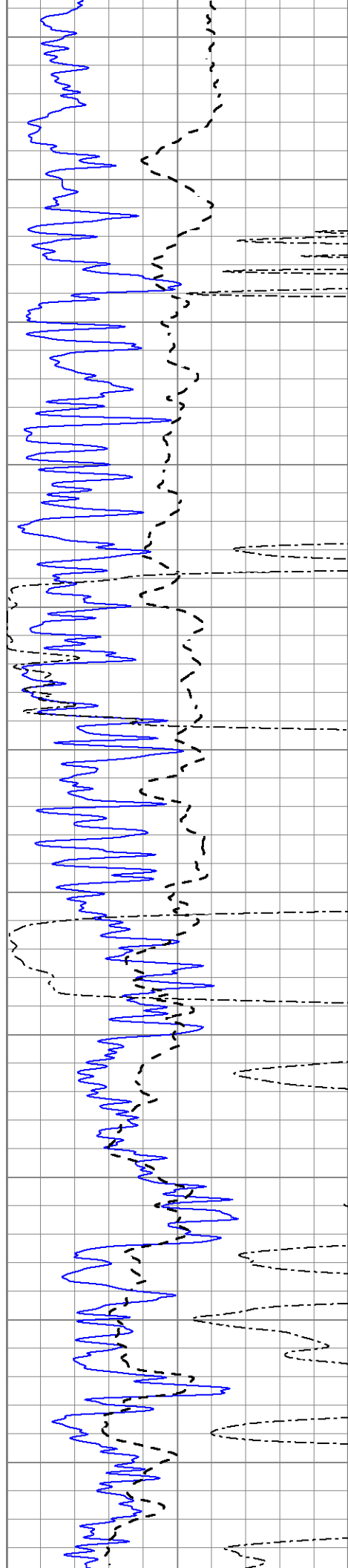
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1400

1450

1500





1550

1600

1650

1700

1750

1800

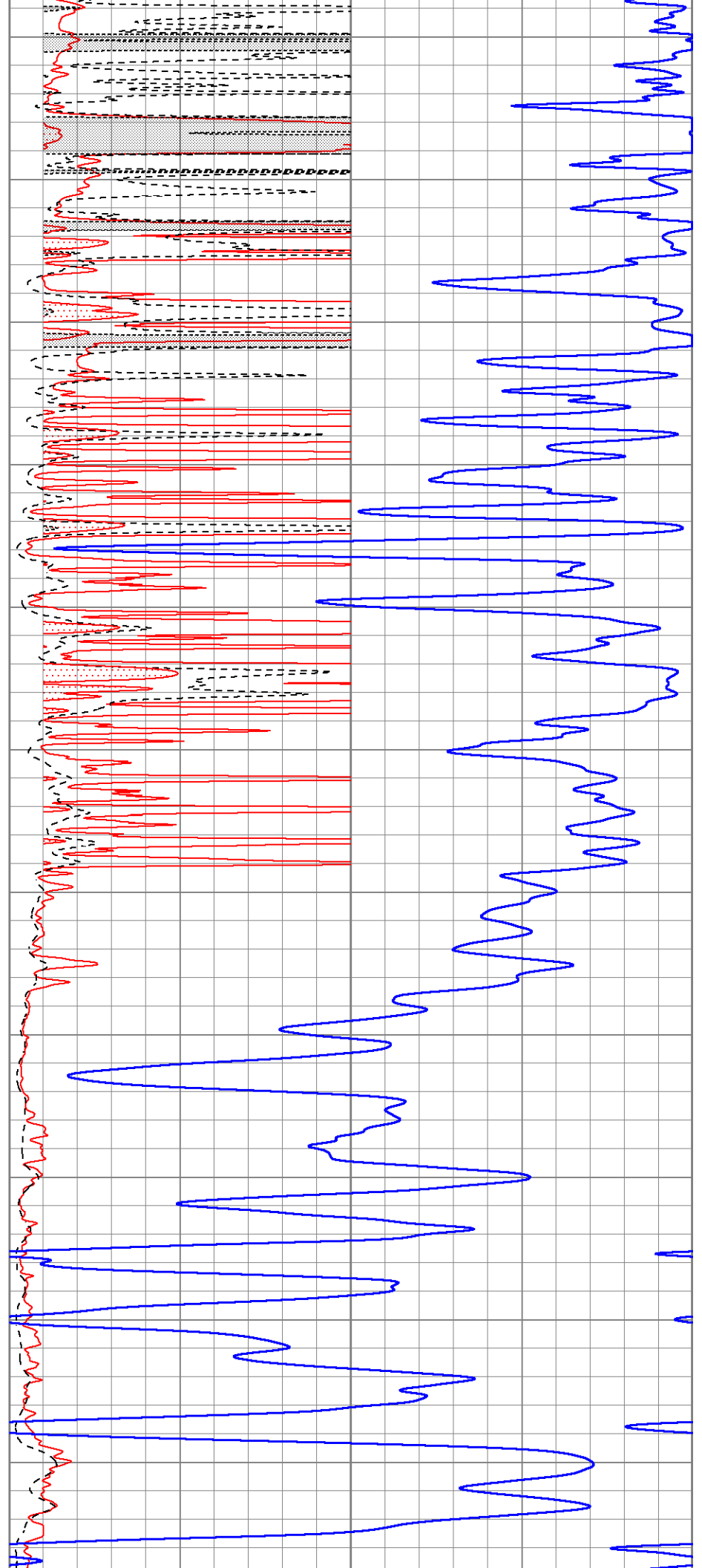
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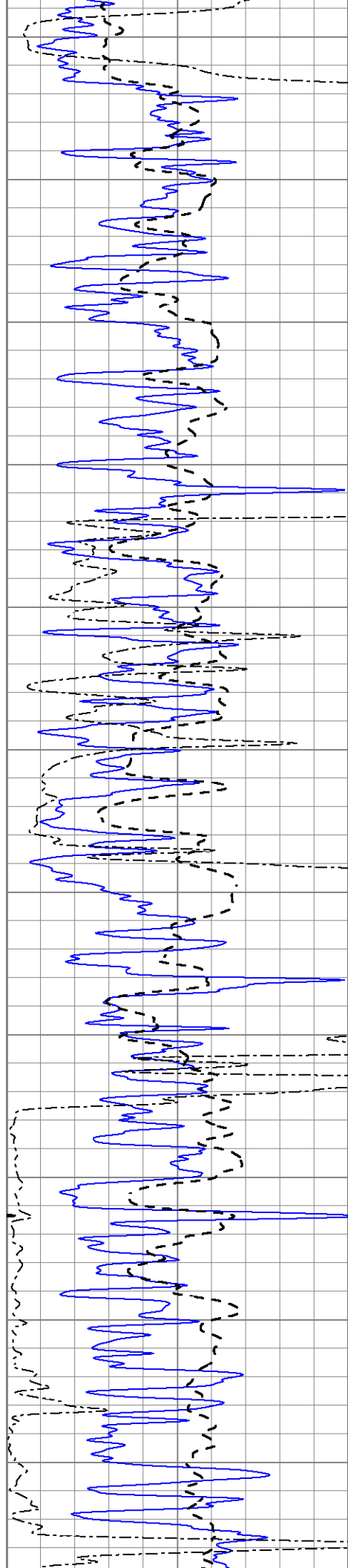
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1950

2000

2050





2100

2150

2200

2250

2300

2350

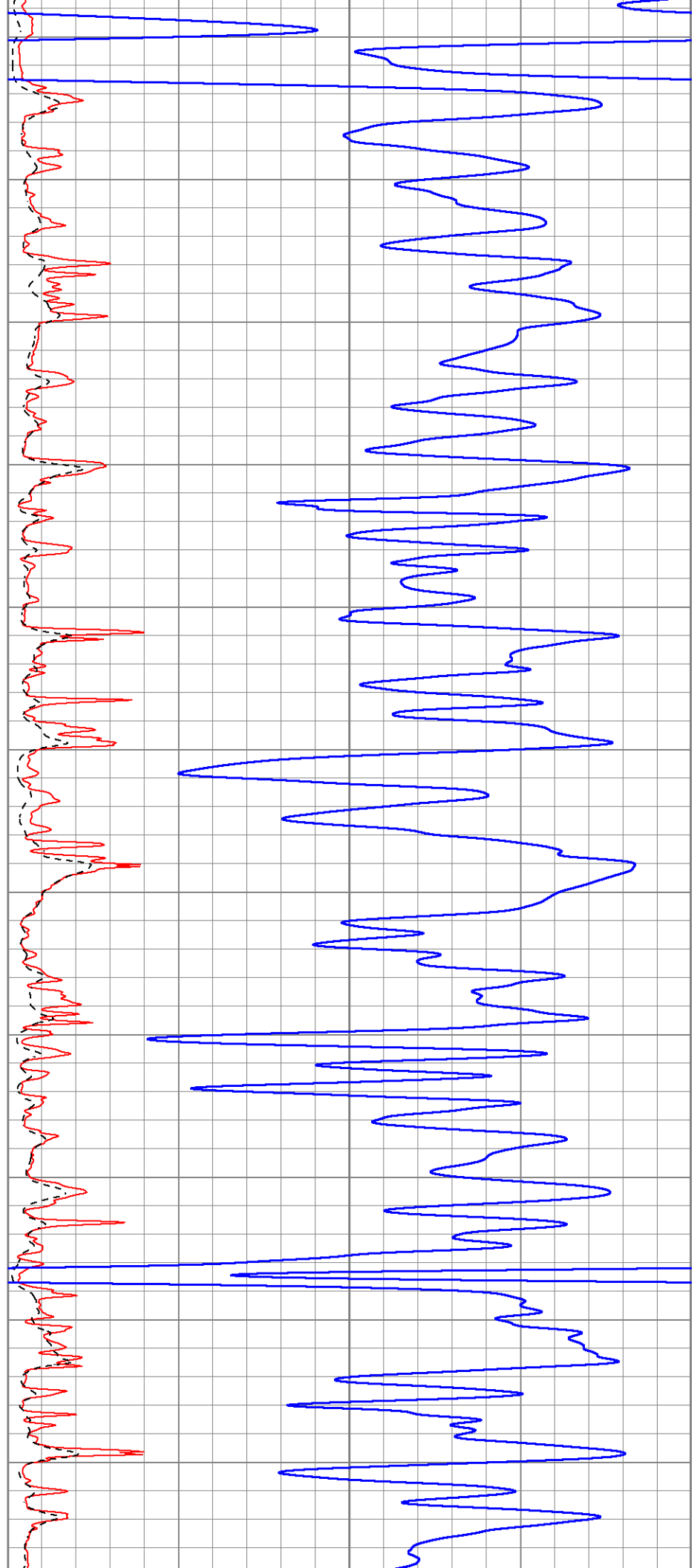
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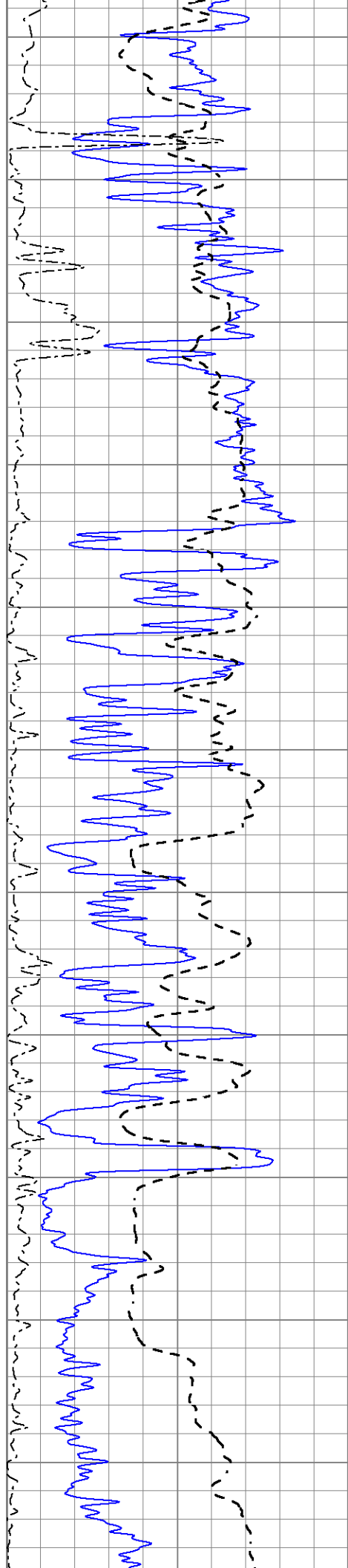
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2500

2550

2600





2650

2700

2750

2800

2850

2900

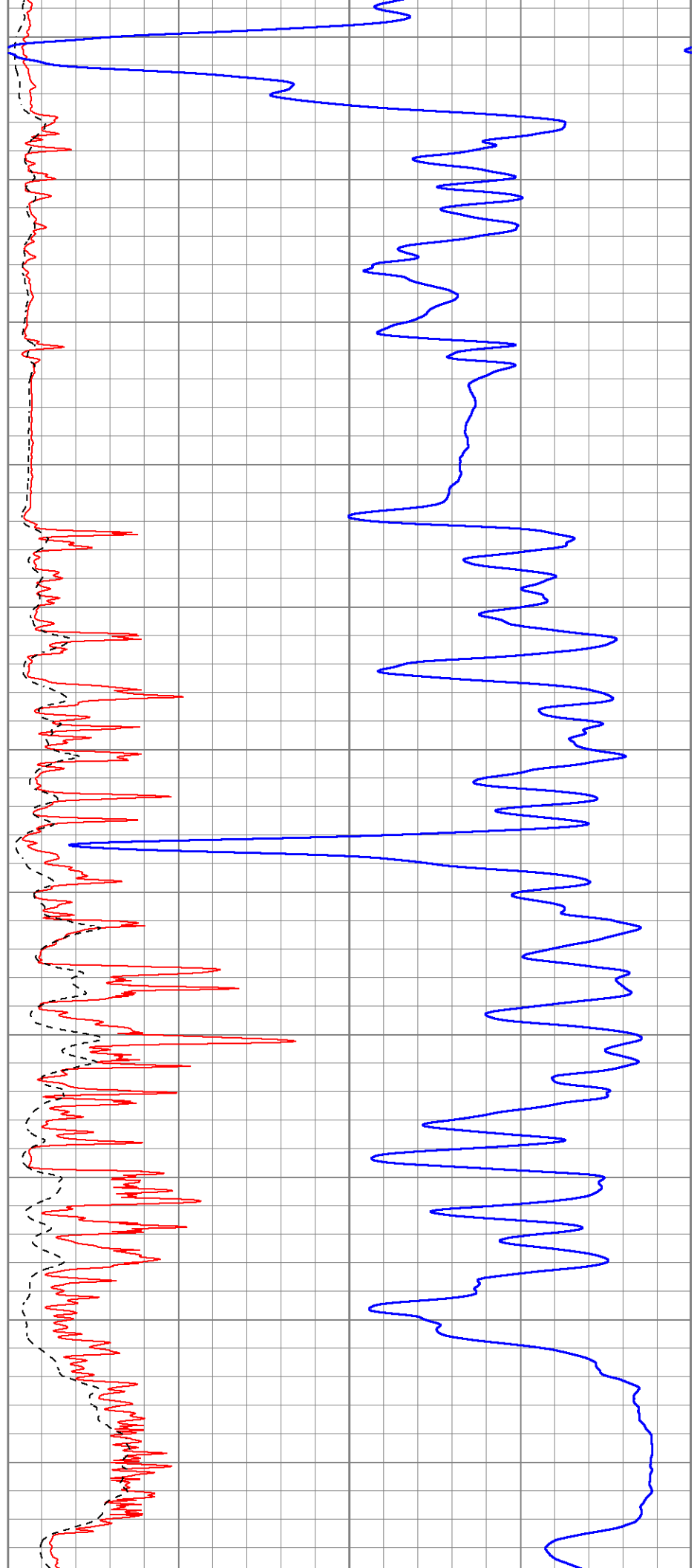
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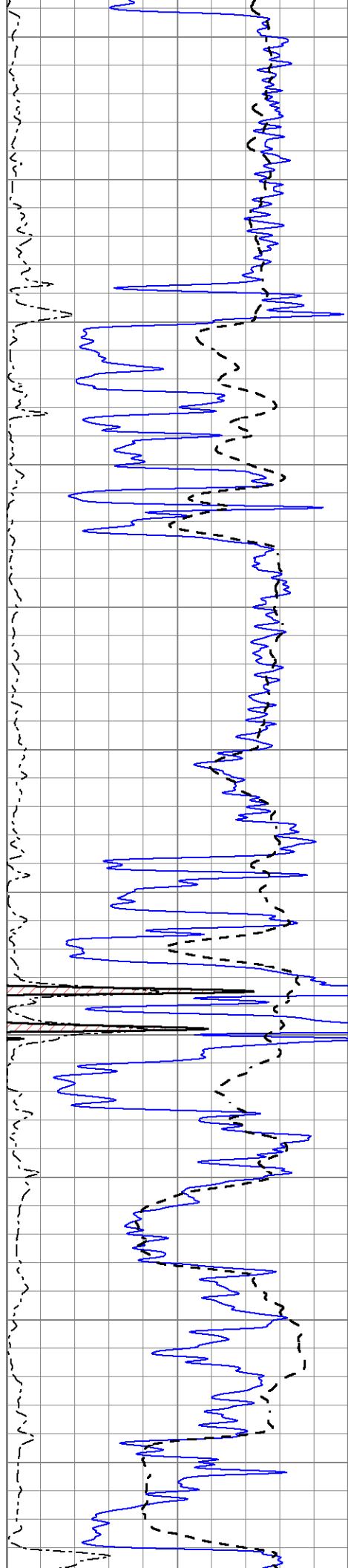
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3050

3100

3150





3200

3250

3300

3350

3400

3450

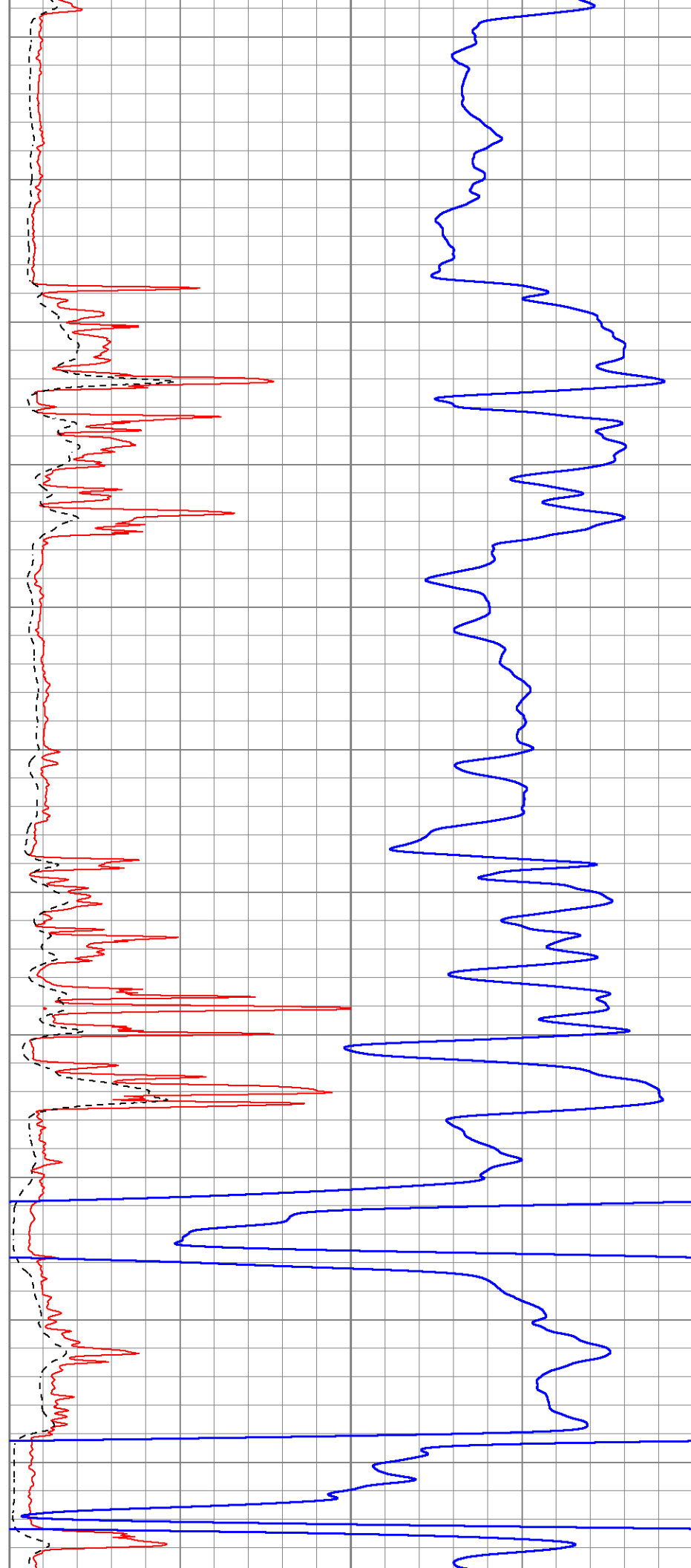
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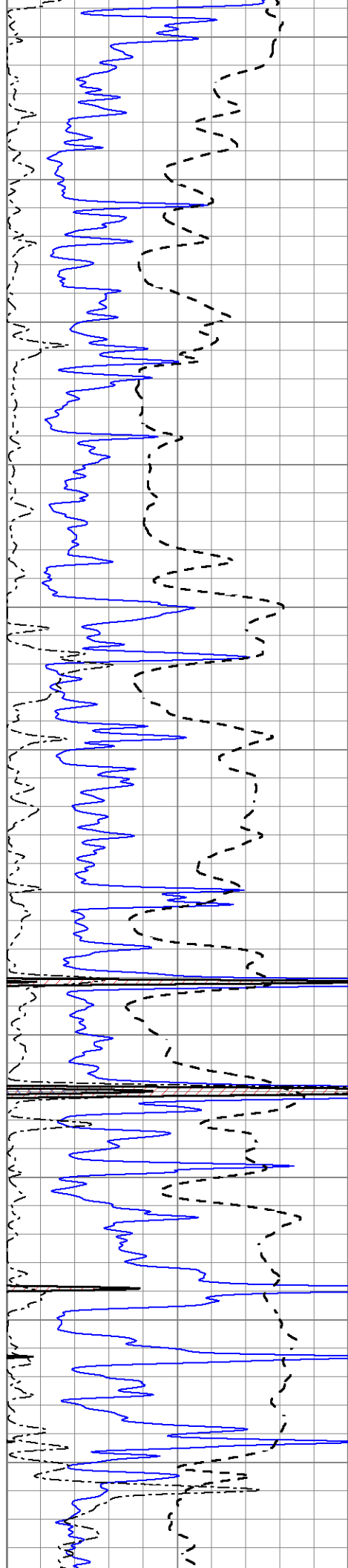
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3600

3650

3700





3750

3800

3850

3900

3950

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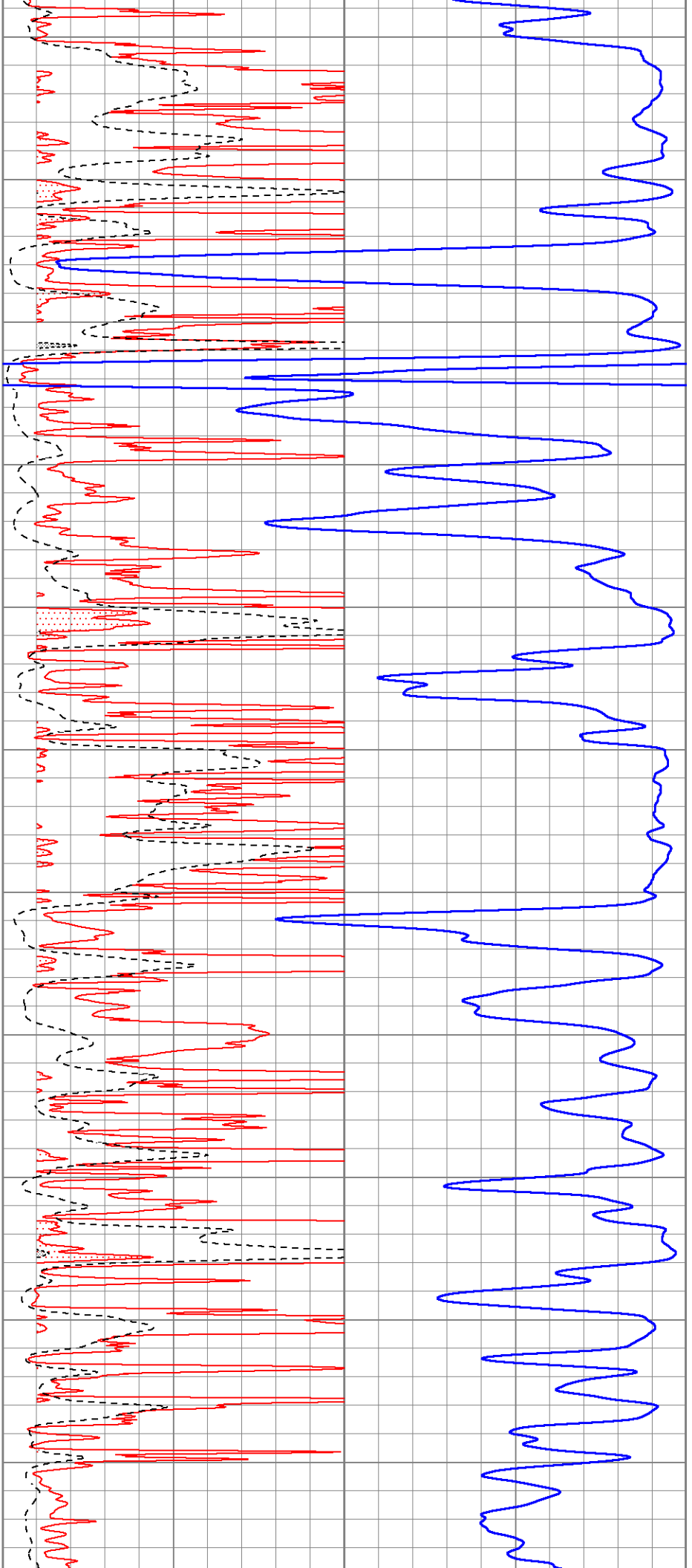
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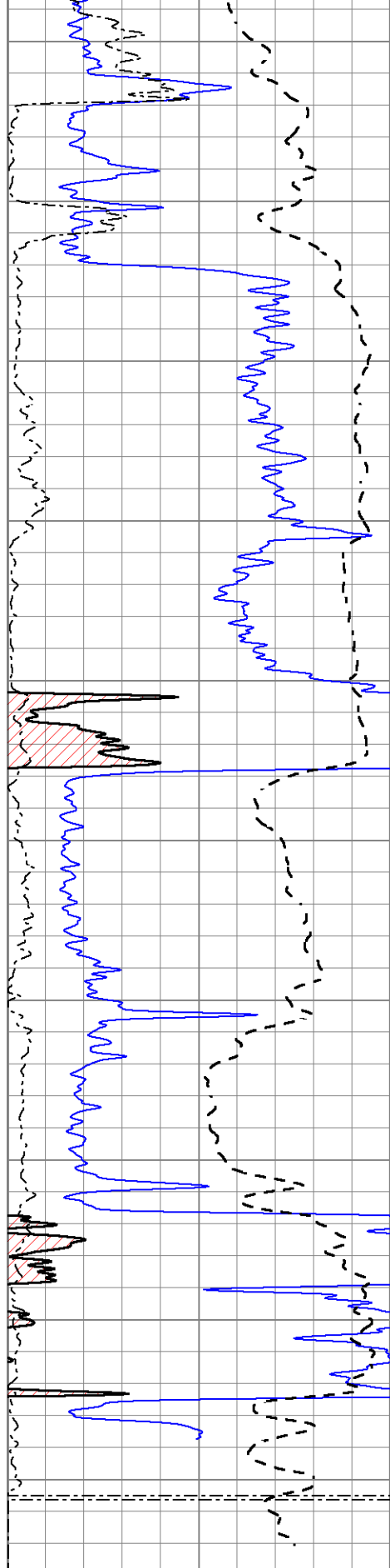
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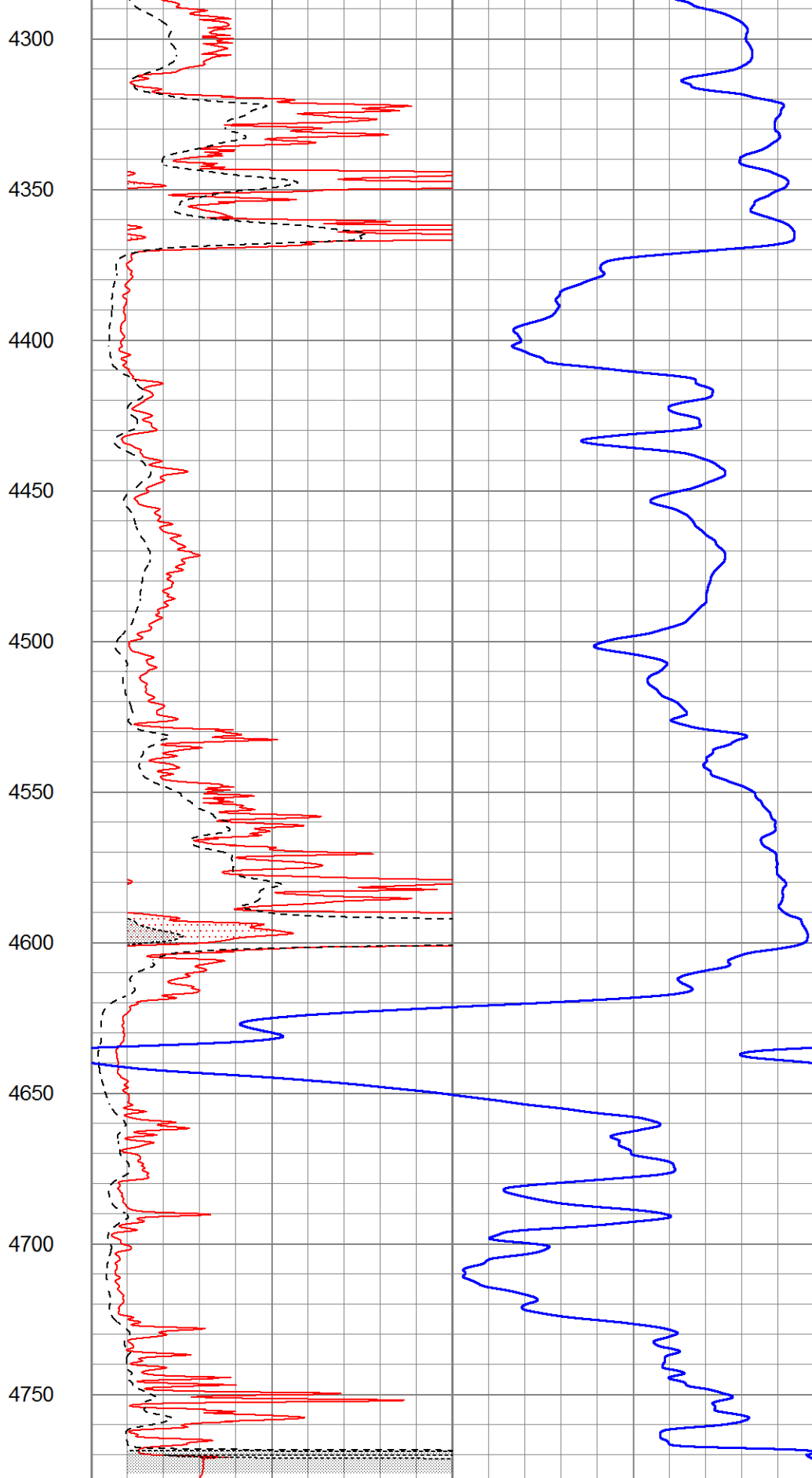
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4250





0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1



1000	CILD (mmho/m)	0
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0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

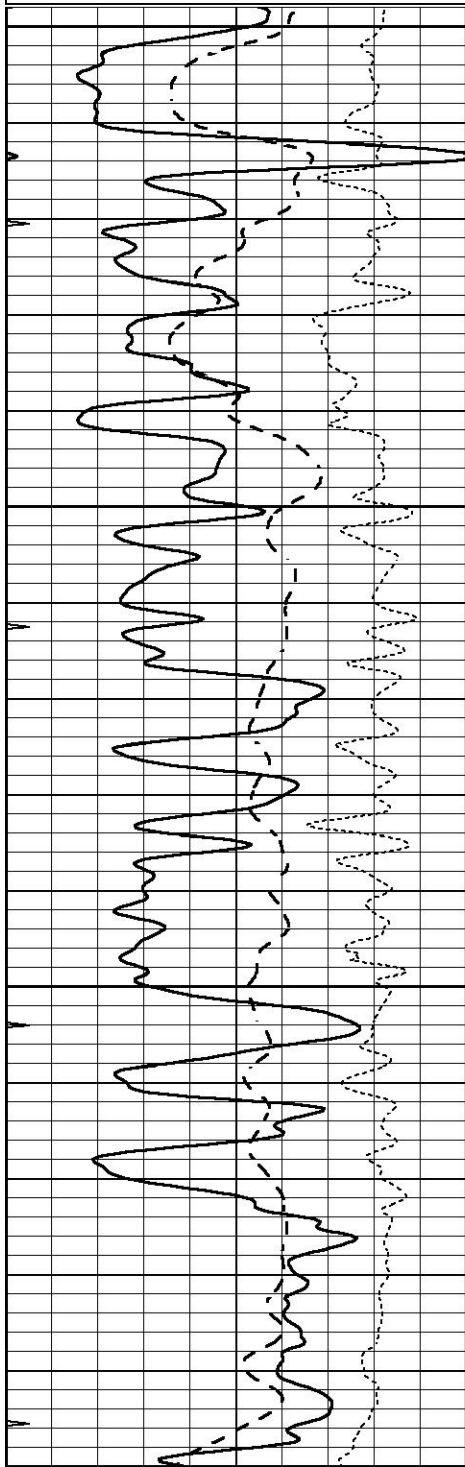


MAIN SECTION

Database File 6363pe.db
Dataset Pathname pass3.1M
Presentation Format _dil
Dataset Creation Sun Mar 13 22:30:38 2022
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

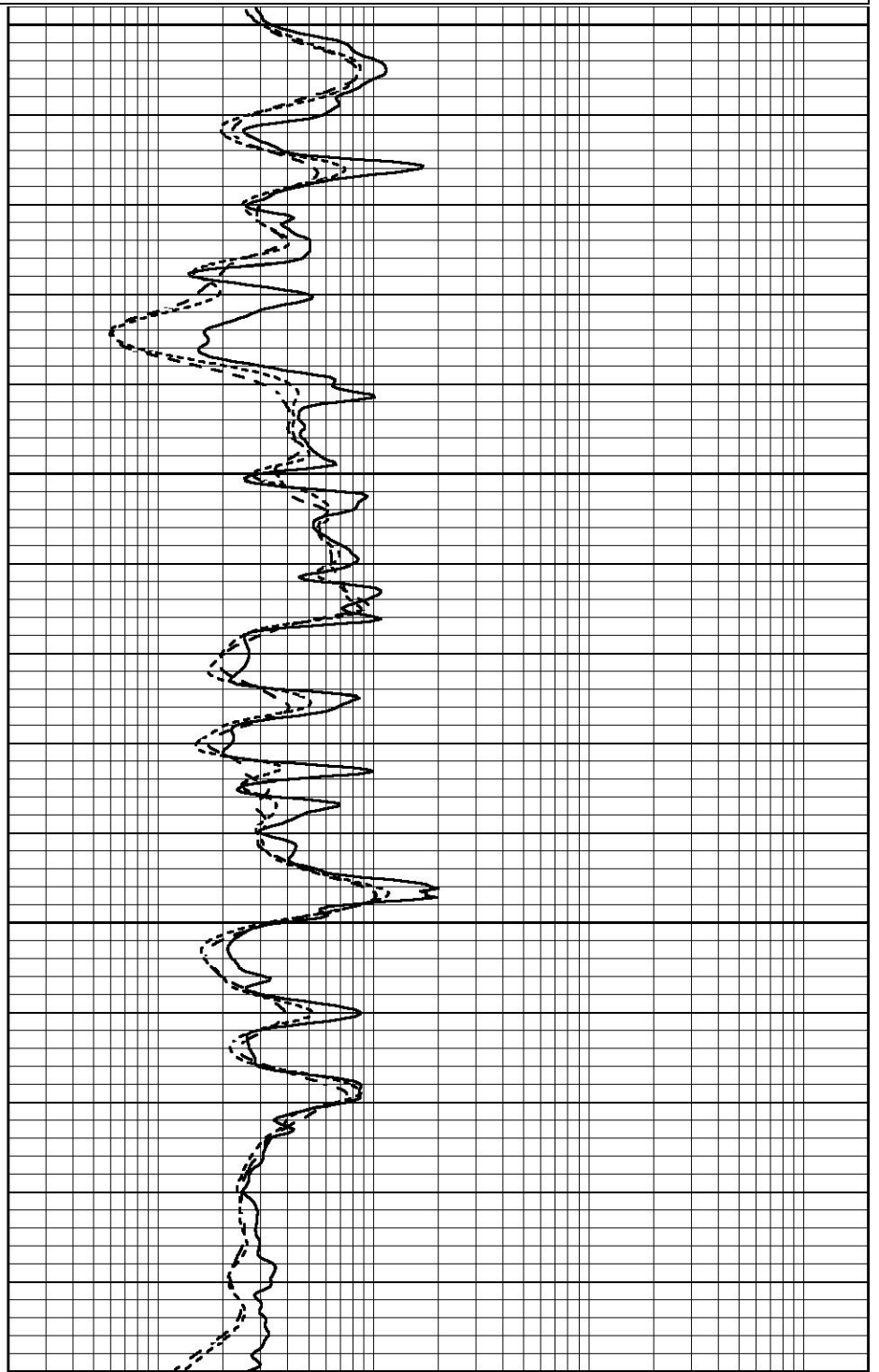


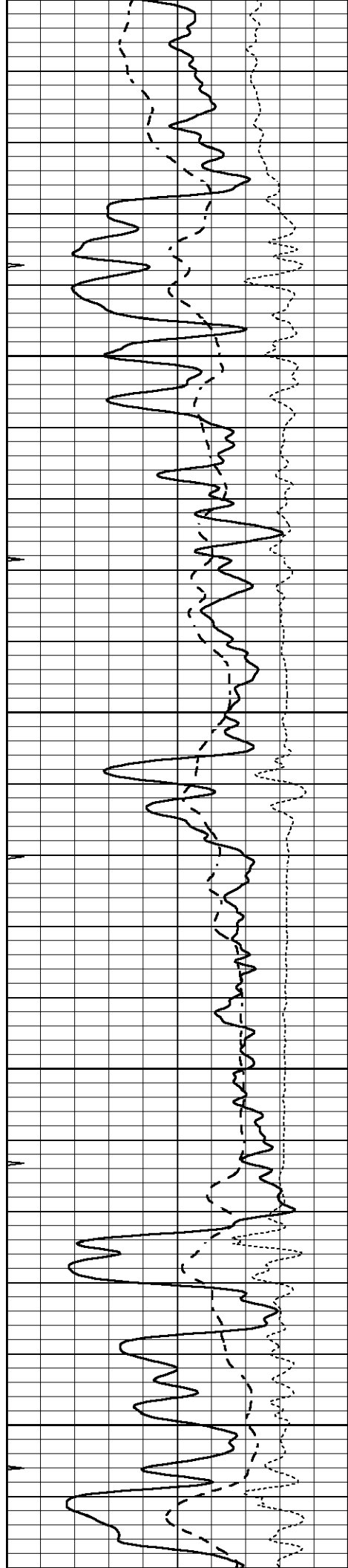
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2550

2600

2650





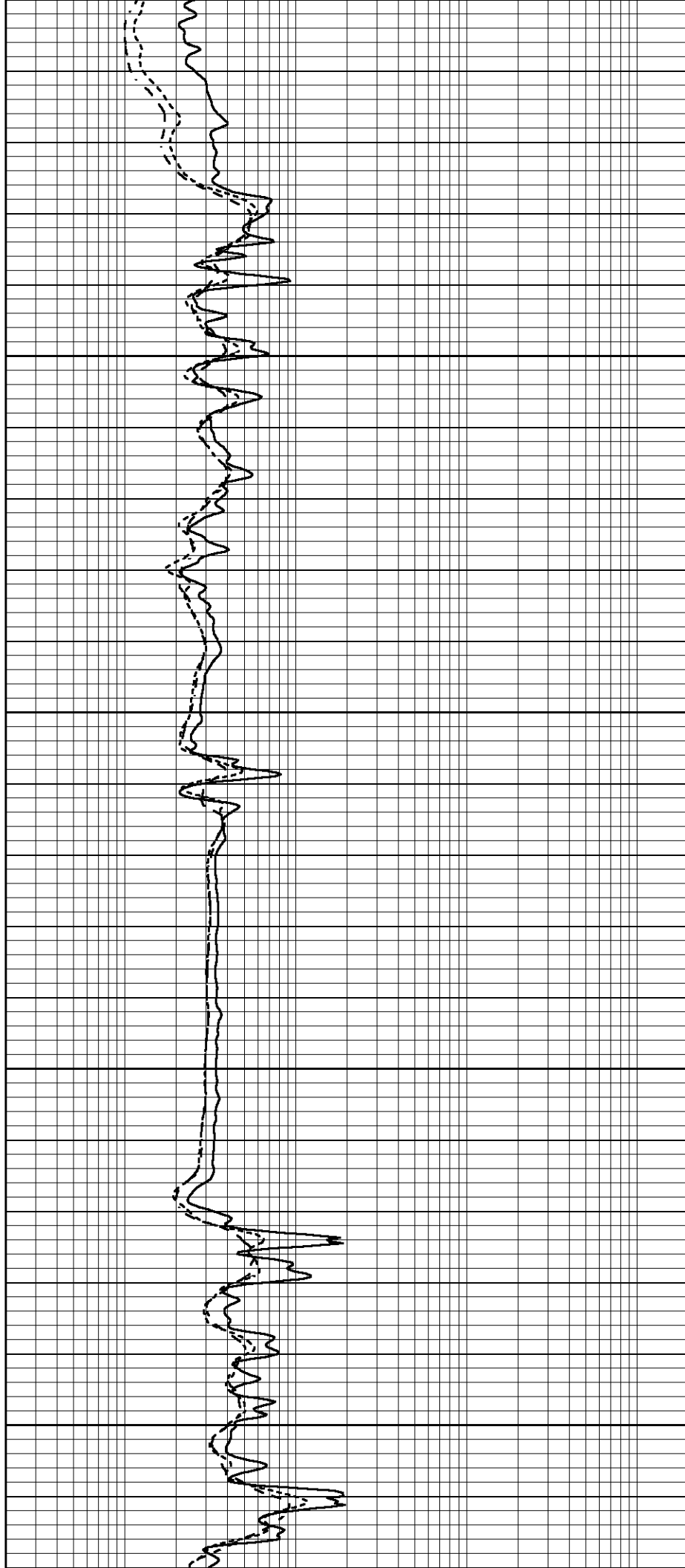
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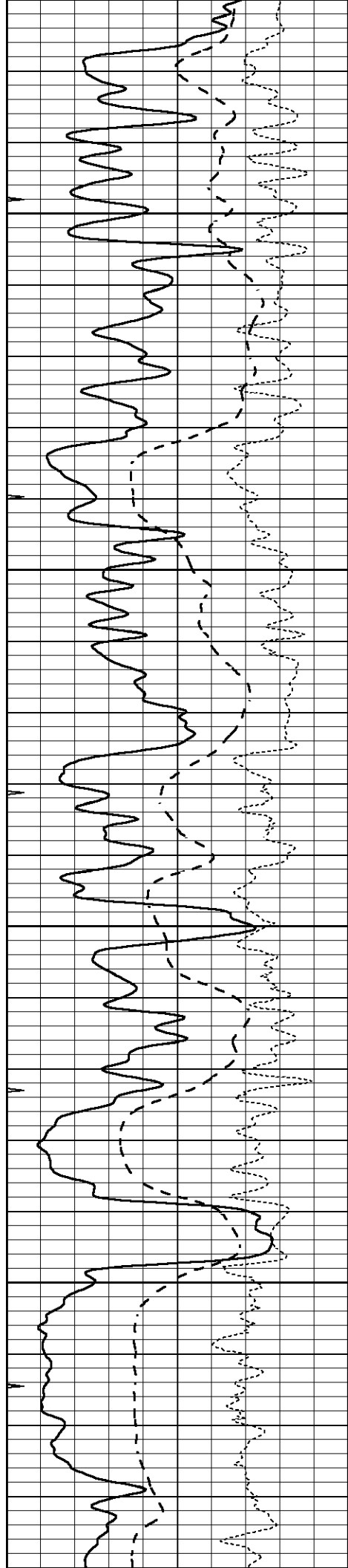
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2750

2800

2850



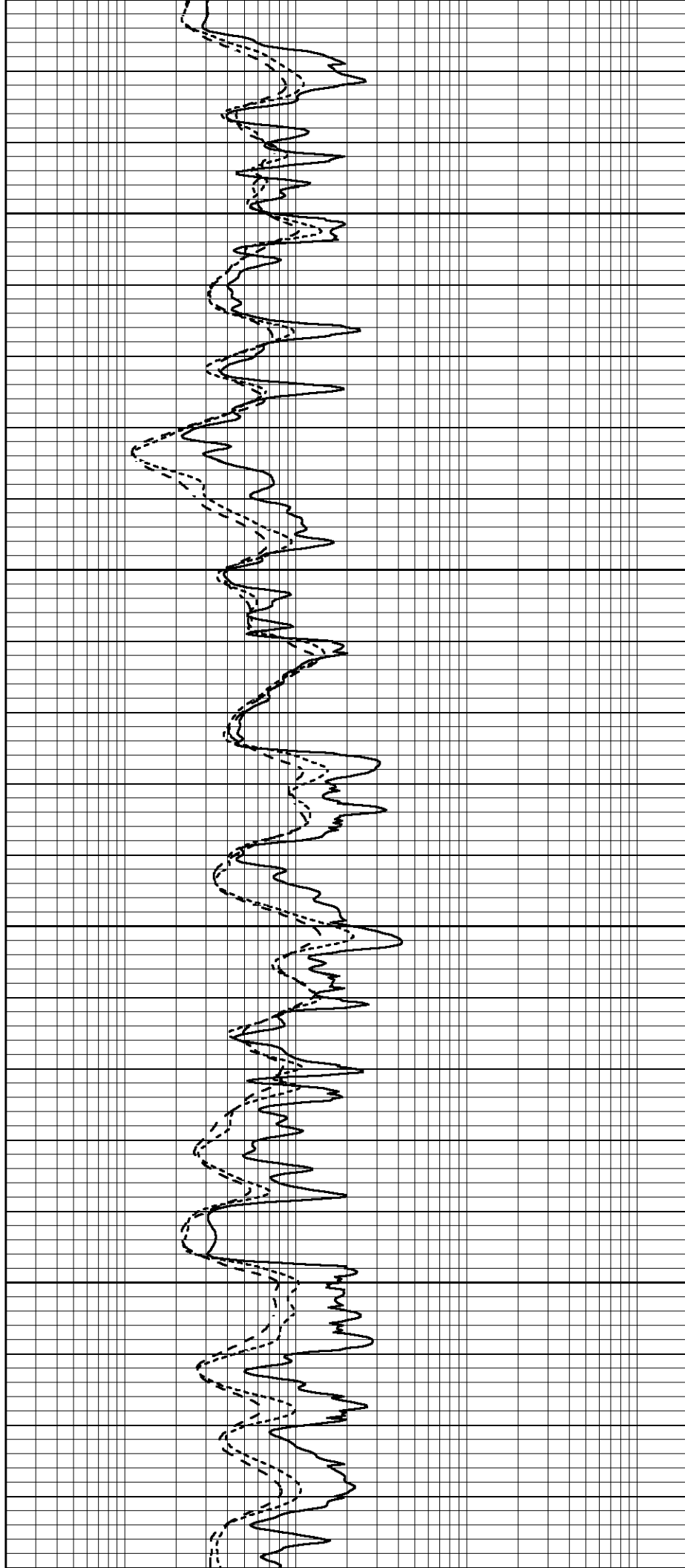


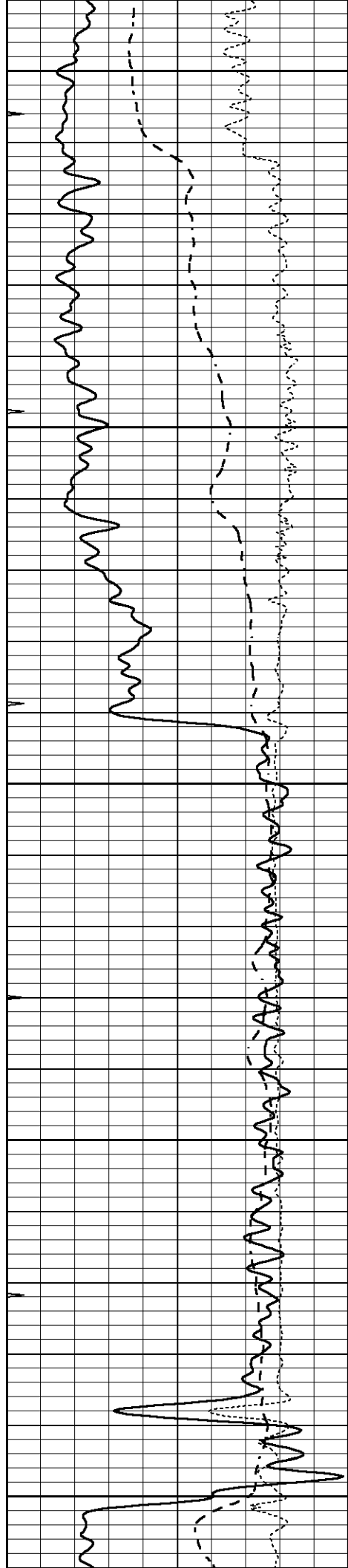
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2950

3000

3050





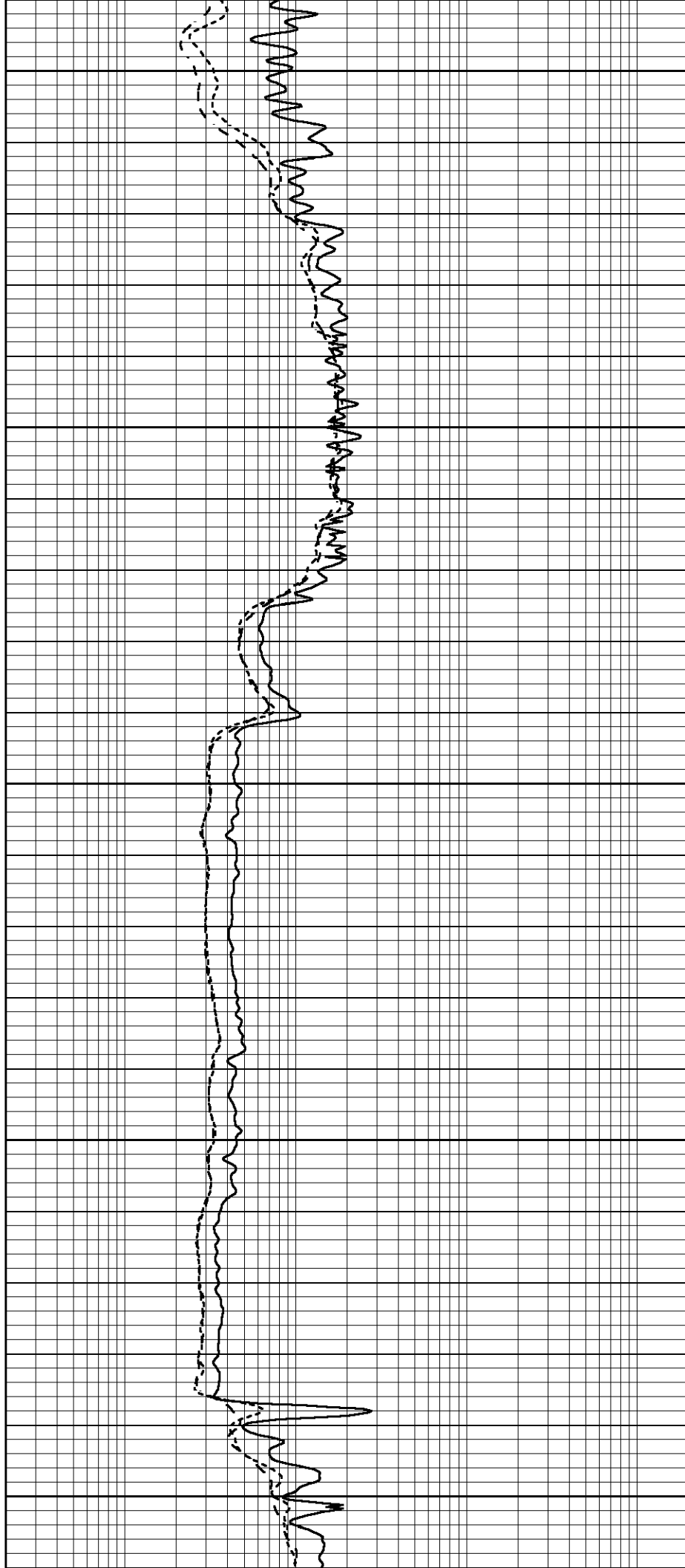
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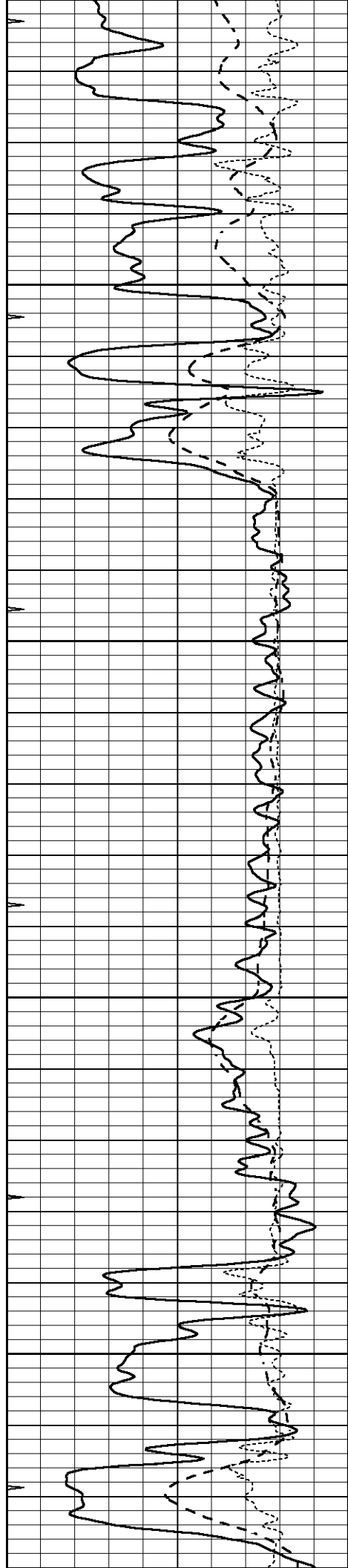
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3200

3250

3300



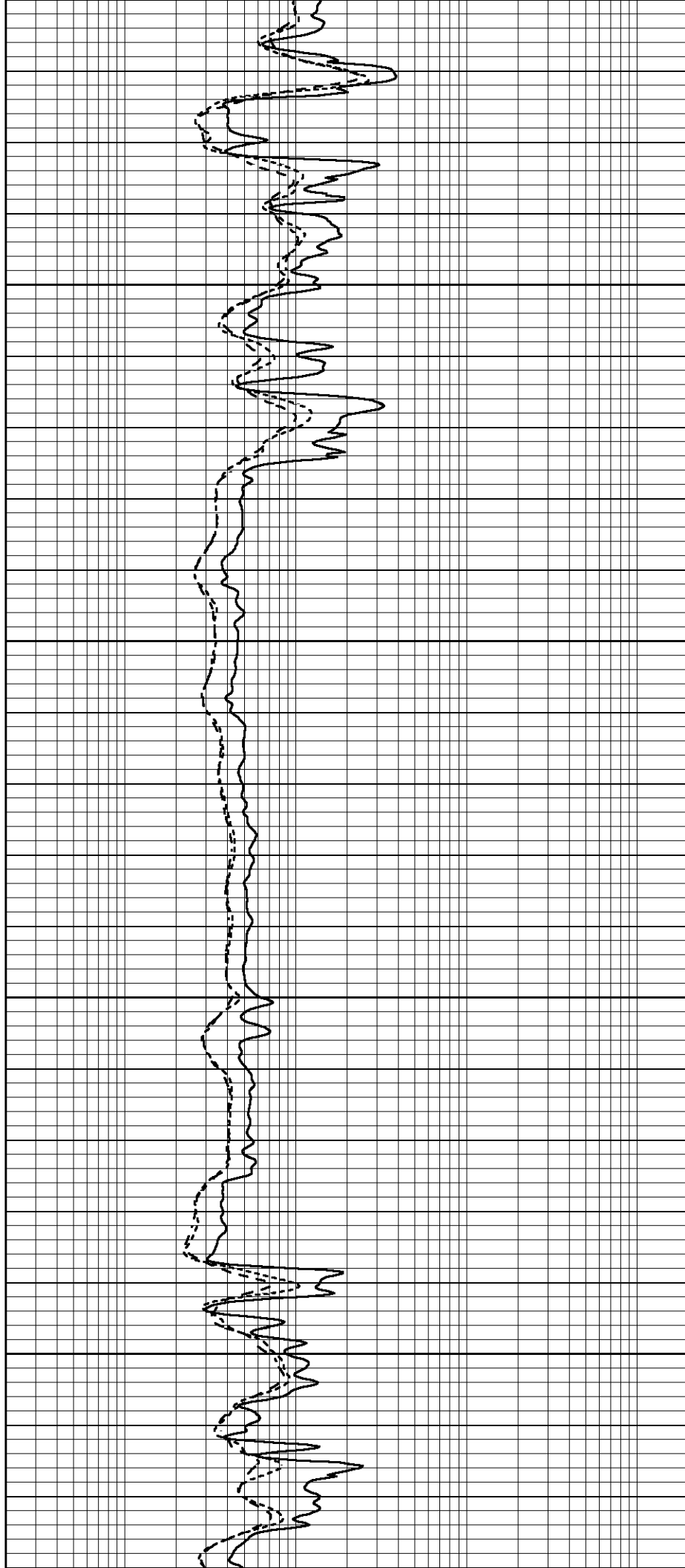


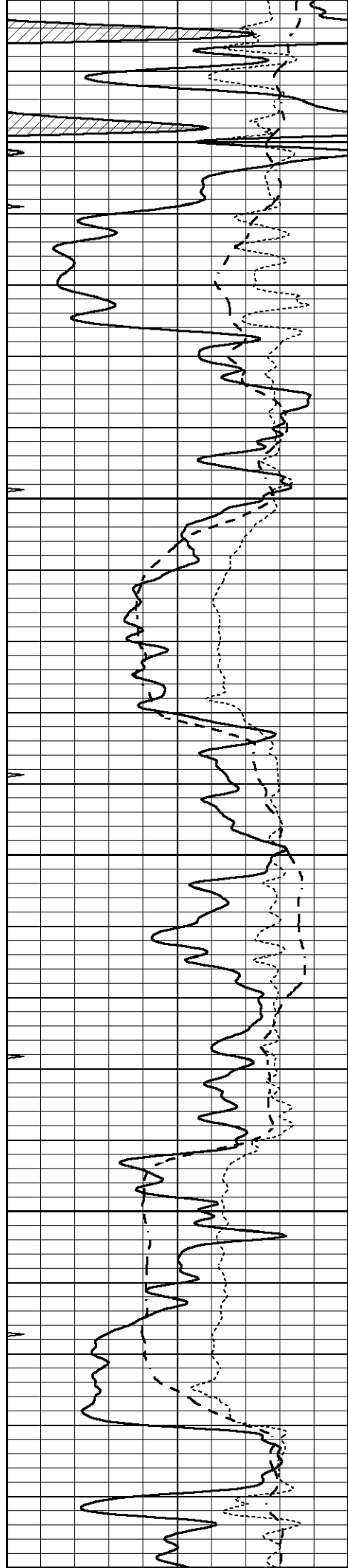
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3400

3450

3500





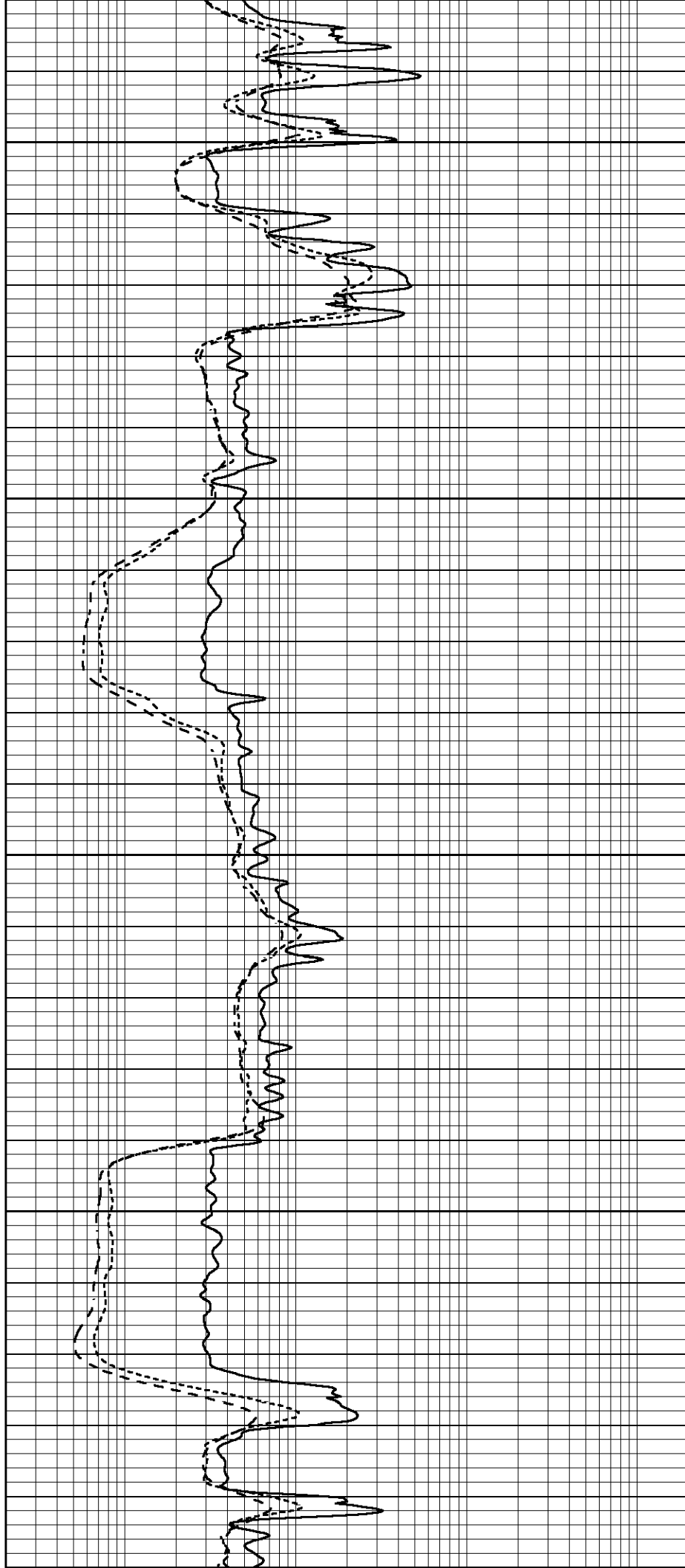
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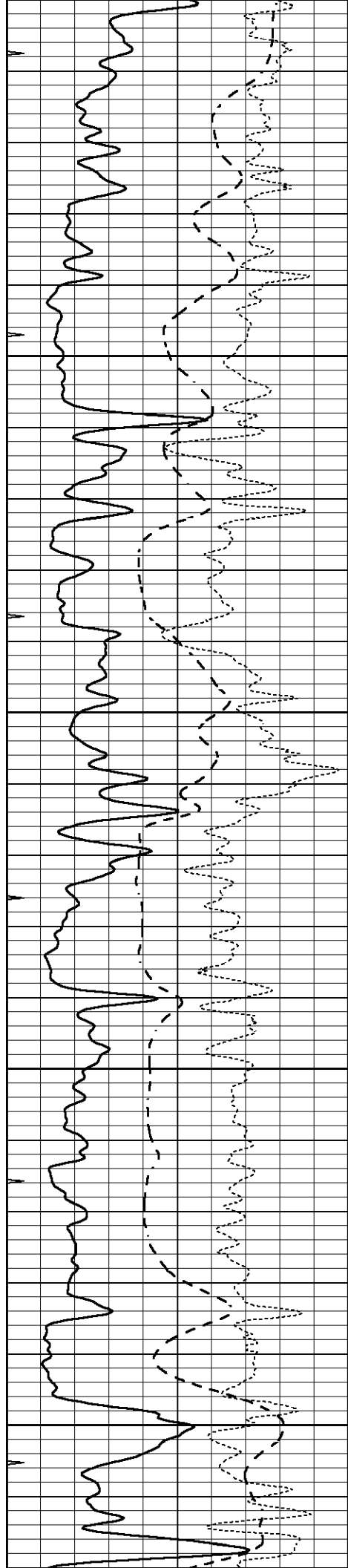
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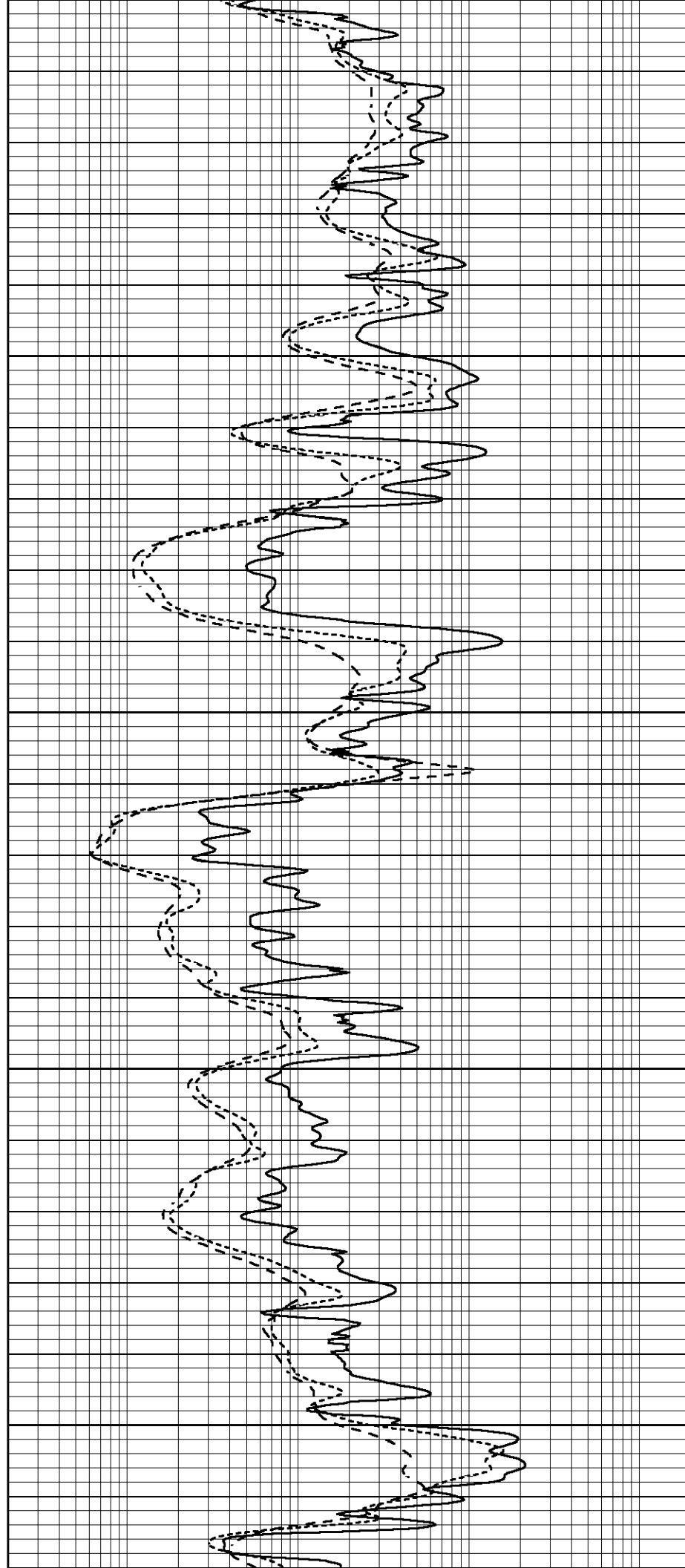
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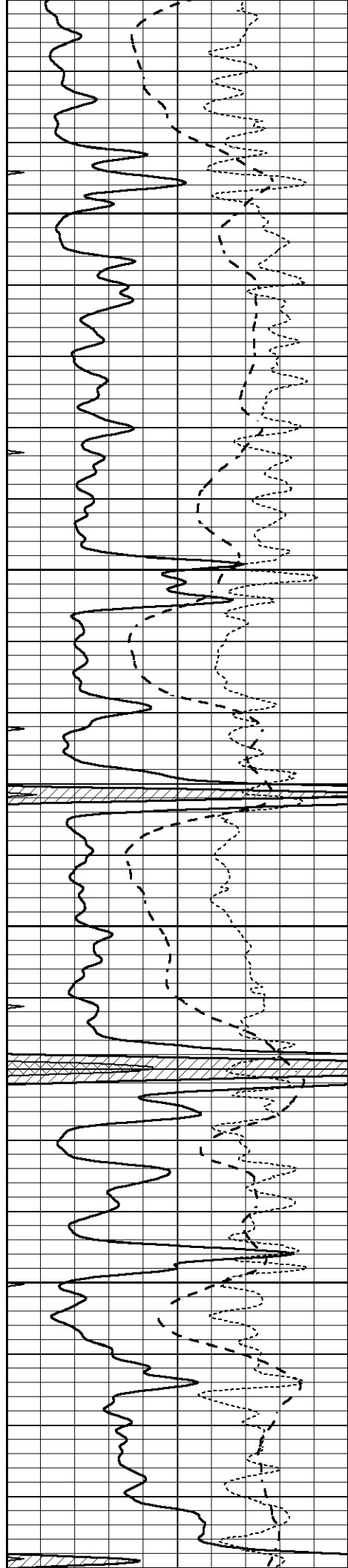
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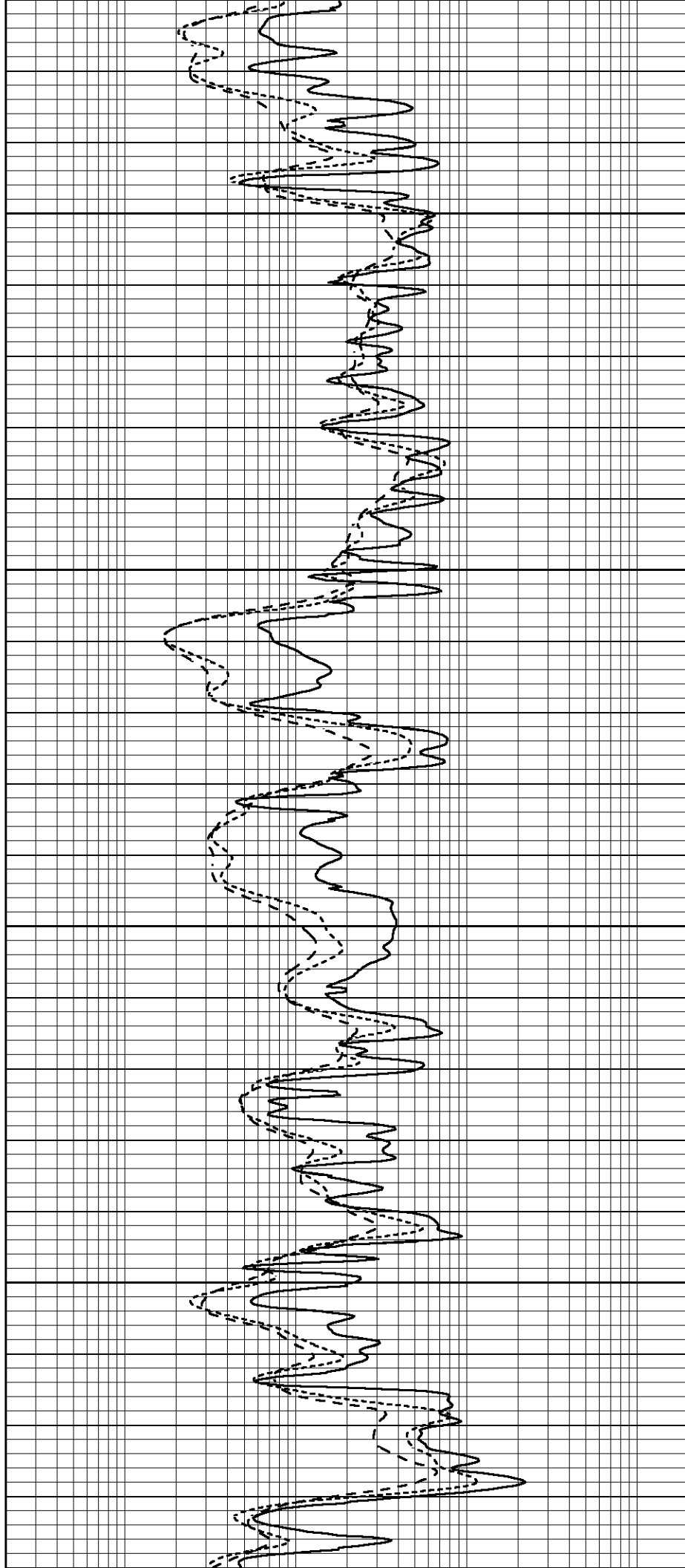


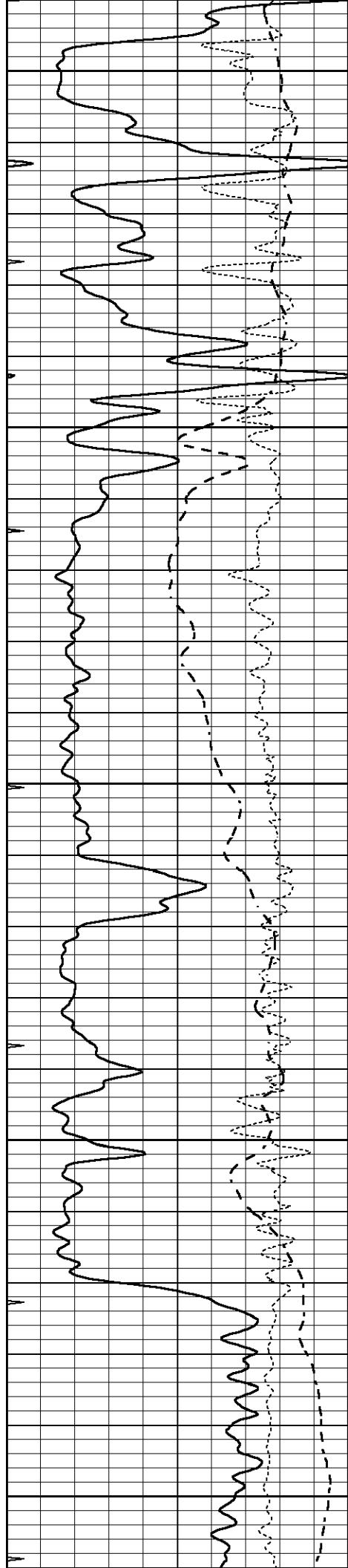
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4050

4100

4150





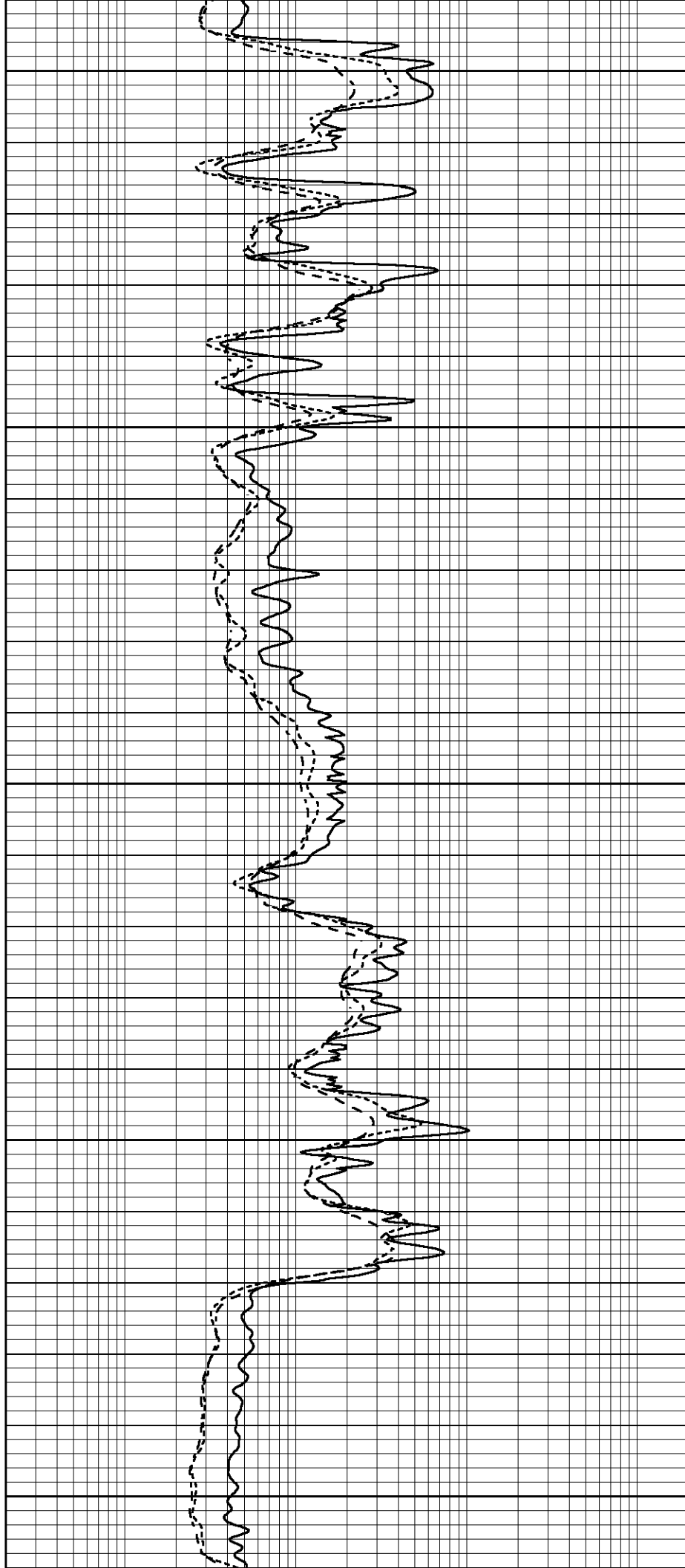
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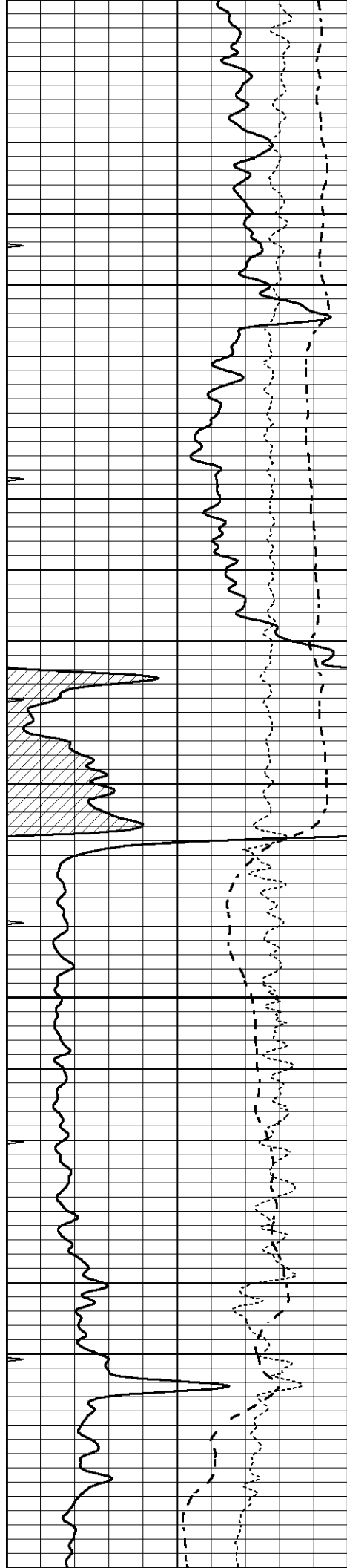
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4300

4350

4400



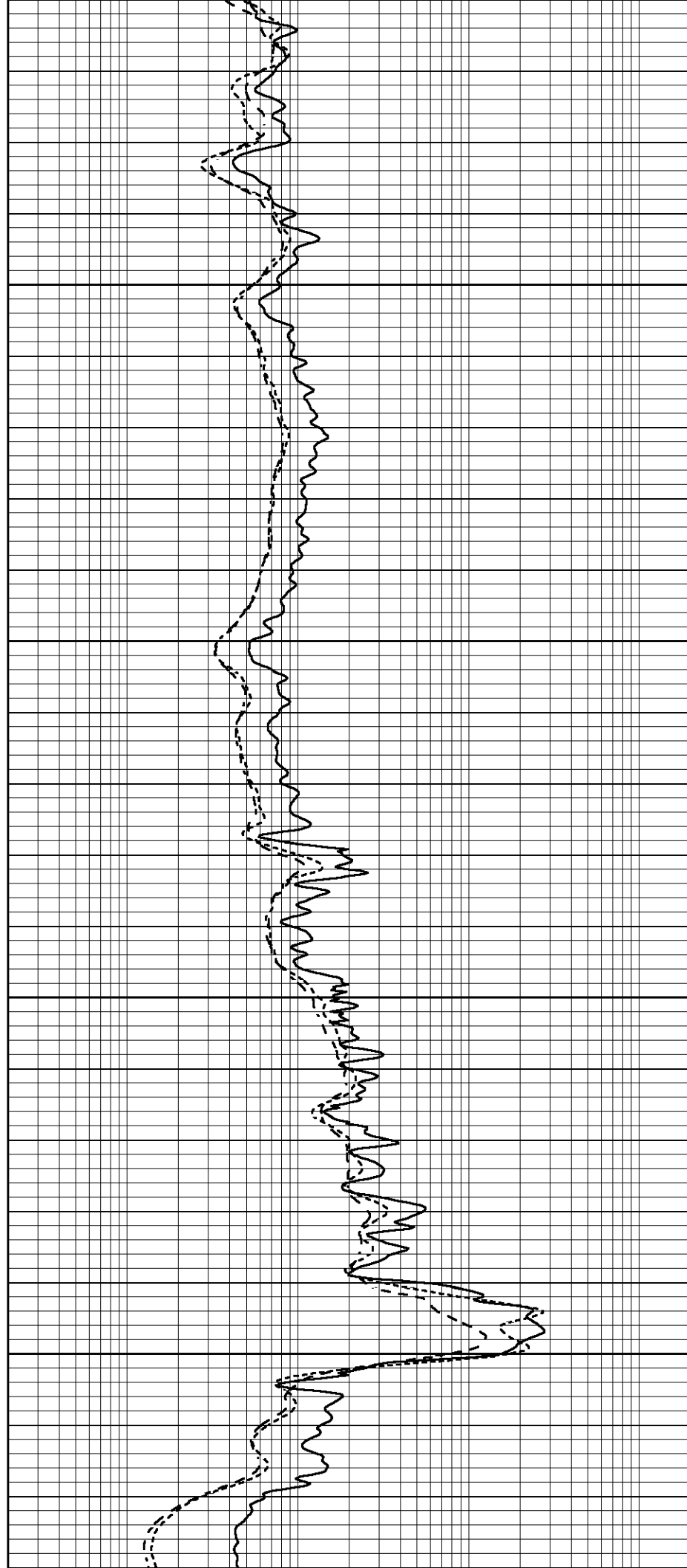


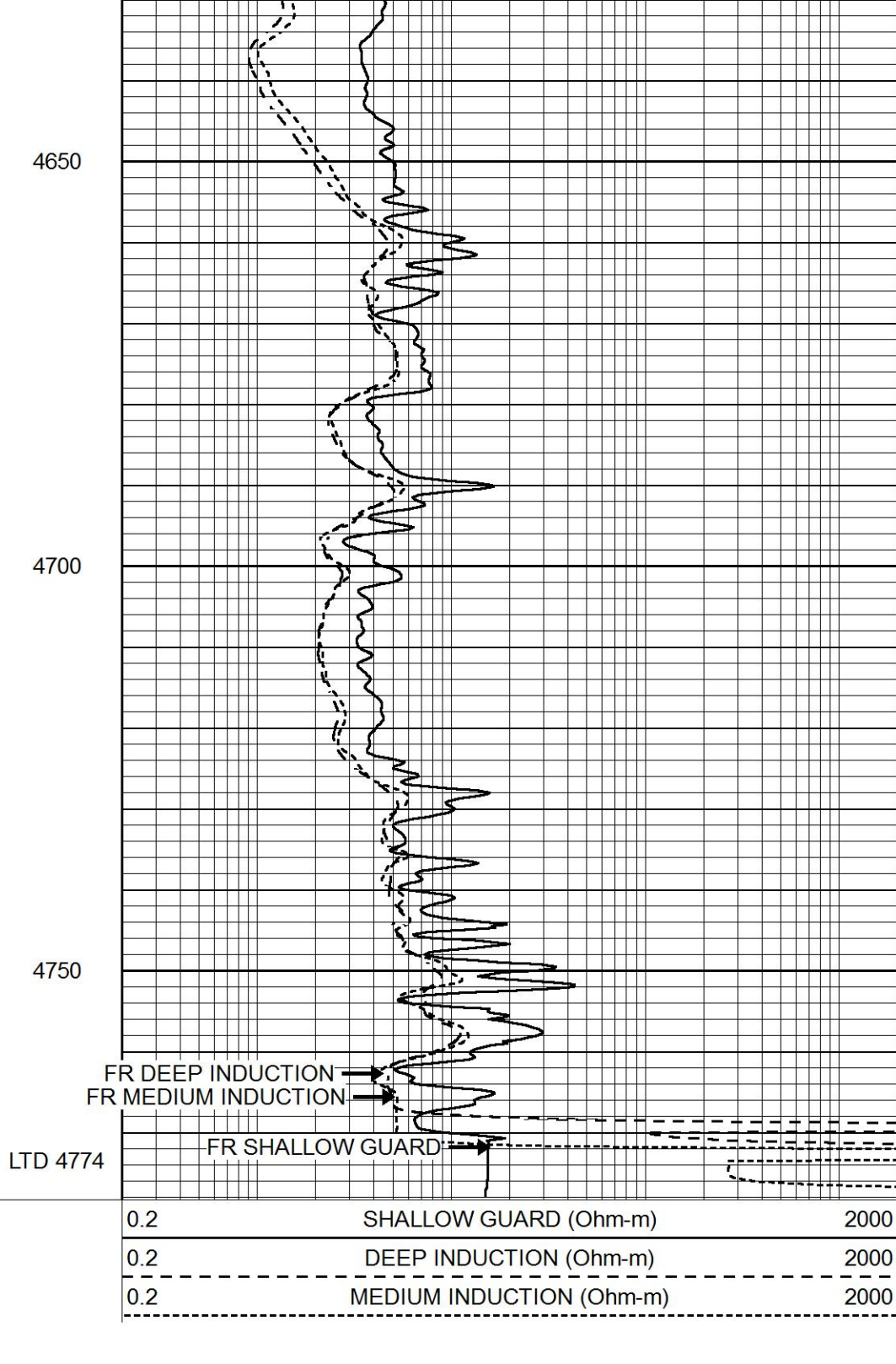
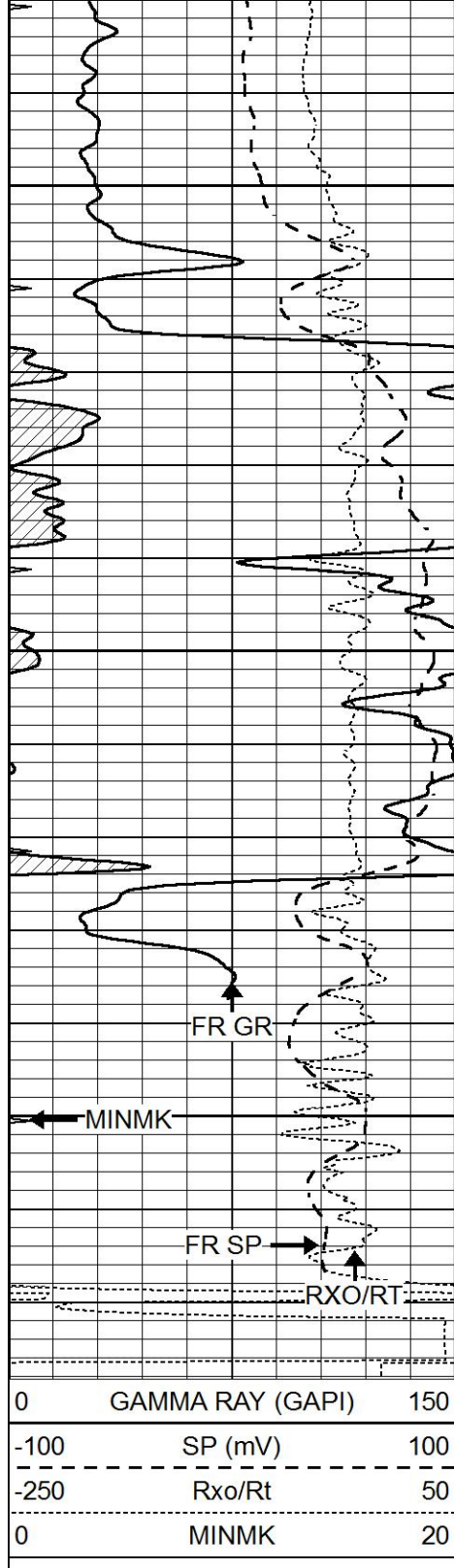
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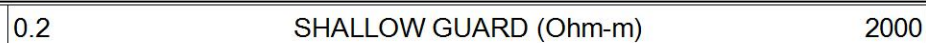
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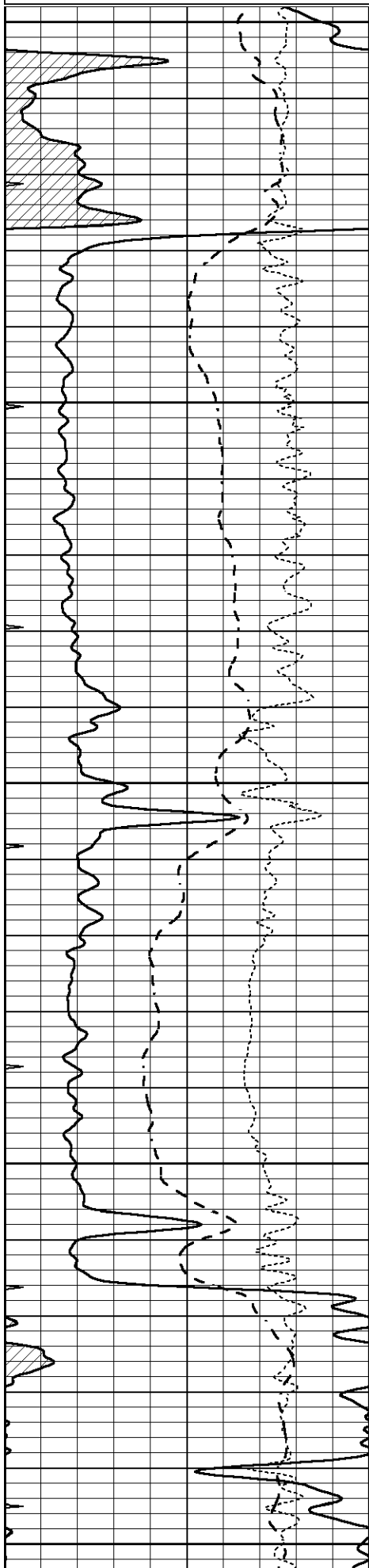
REPEAT SECTION

Database File 6363pe.db
 Dataset Pathname pass2.1R
 Presentation Format _dil
 Dataset Creation Sun Mar 13 22:31:43 2022
 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



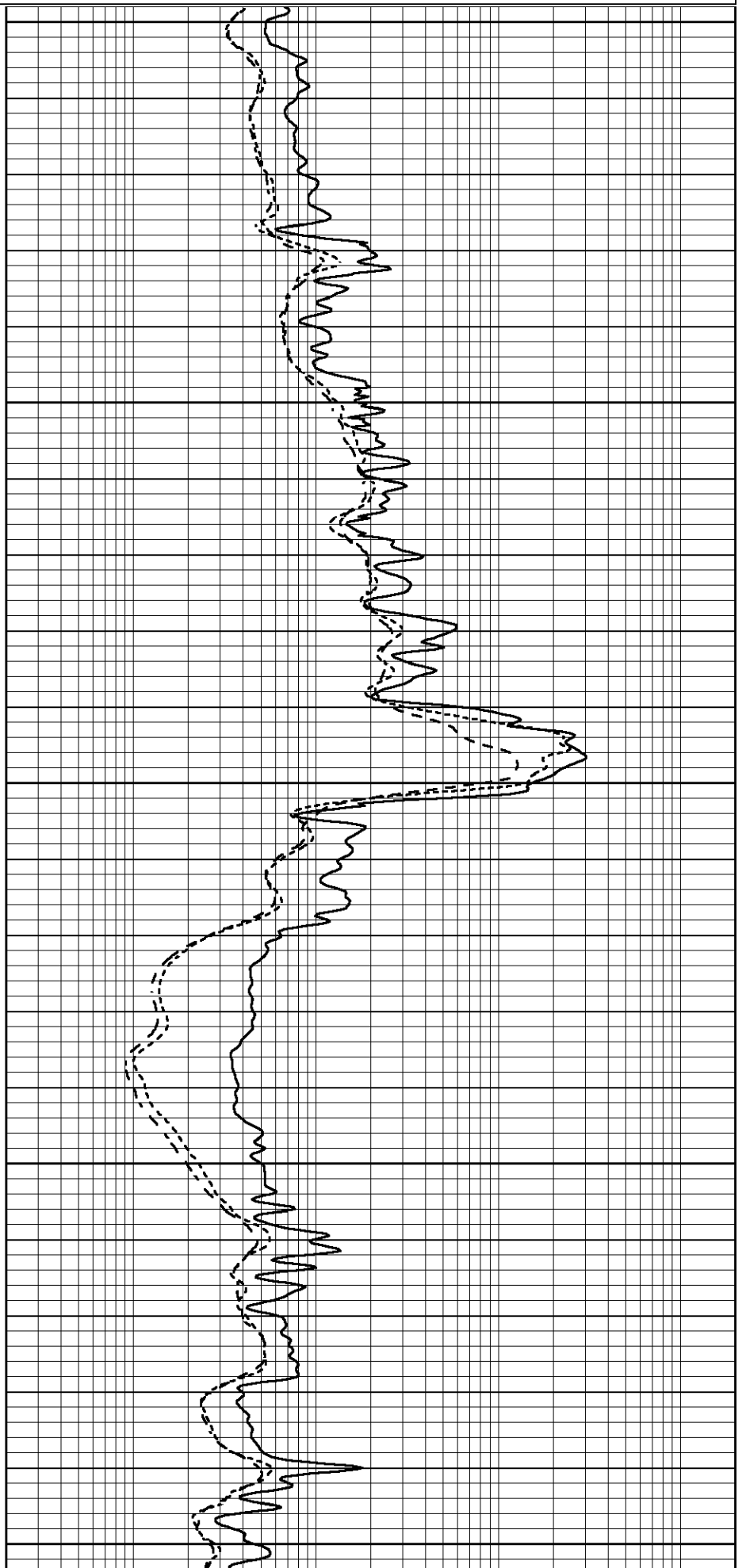
4500

4550

4600

4650

4700



	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: 001 Model: PRB								
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Master Calibration			Performed Mon May 11 11:33:29 2020					
	Background		Magnesium		Aluminum		Aluminum+Fe	
Window 1	1593.8		10211.9		3449.0		3132.1	cps
Window 2	1486.7		8824.2		3065.6		2829.4	cps
Window 3	1206.8		4705.7		1944.6		1871.7	cps
Window 4	361.0		367.9		364.8		363.1	cps
Long Space	0.0		7337.5		1578.9		1342.7	cps
Short Space	2.7		2543.4		1657.9		1382.7	cps
Rho			1.7100		2.5900		0.0000	g/cc
Pe			2.0000		2.7500		5.7900	
Rib Angle	: 44.4		Rib Slope	: 0.980	Density/Spine Ratio		: 0.552	
Spine Angle	: 74.4		Spine Slope	: 3.590	Spine Intercept		: -19.2	

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								
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Serial Number:			070808PMC					
Tool Model:			NABORS					

PRE-SURVEY VERIFICATION								
Detector	Readings		Measured	Target				

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:	Wed Mar 02 14:49:46 2022		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2800	GAPI/cps	