

DUAL INDUCTION LOG

Company VAL ENERGY, INC.

Well MCKAY #2-29

Field UNNAMED

County BARBER State KANSAS

Location: API #: 15-007-24392-0000

1930' FSL & 1265' FWL
NE - SE - NW - SW

SEC 29 TWP 30S RGE 12W

Permanent Datum GROUND LEVEL Elevation 1775
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
CDL/CNL/PE
MEL/SONIC

Elevation

K.B. 1782
D.F. 1780
G.L. 1775

Date 10/7/21

Run Number ONE

Depth Driller 4725

Depth Logger 4730

Bottom Logged Interval 4728

Top Log Interval 00

Casing Driller 8 5/8" @ 318'

Casing Logger 320

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL

Density / Viscosity 9.4/53

pH / Fluid Loss 10.0/8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp .800 @ 84F

Rmf @ Meas. Temp .600 @ 84F

Rmc @ Meas. Temp .960 @ 84F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .546 @ 123F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 2.30 A.M.

Maximum Recorded Temperature 123F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By DAVE BARKER

<<< 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.

15-007-24392-0000

Comments

THANK YOU FOR USING E.L.I. WIRELINE SERVICES HAYS, KANSAS (785)628-6395
DIRECTIONS
SAWYER, KS., 5S. ON HWY 281 TO "ELM MILLS RD.", 1W. TO "MINGONA RD.", 2S. TO "NW PARK RD.", 2E., N. INTO

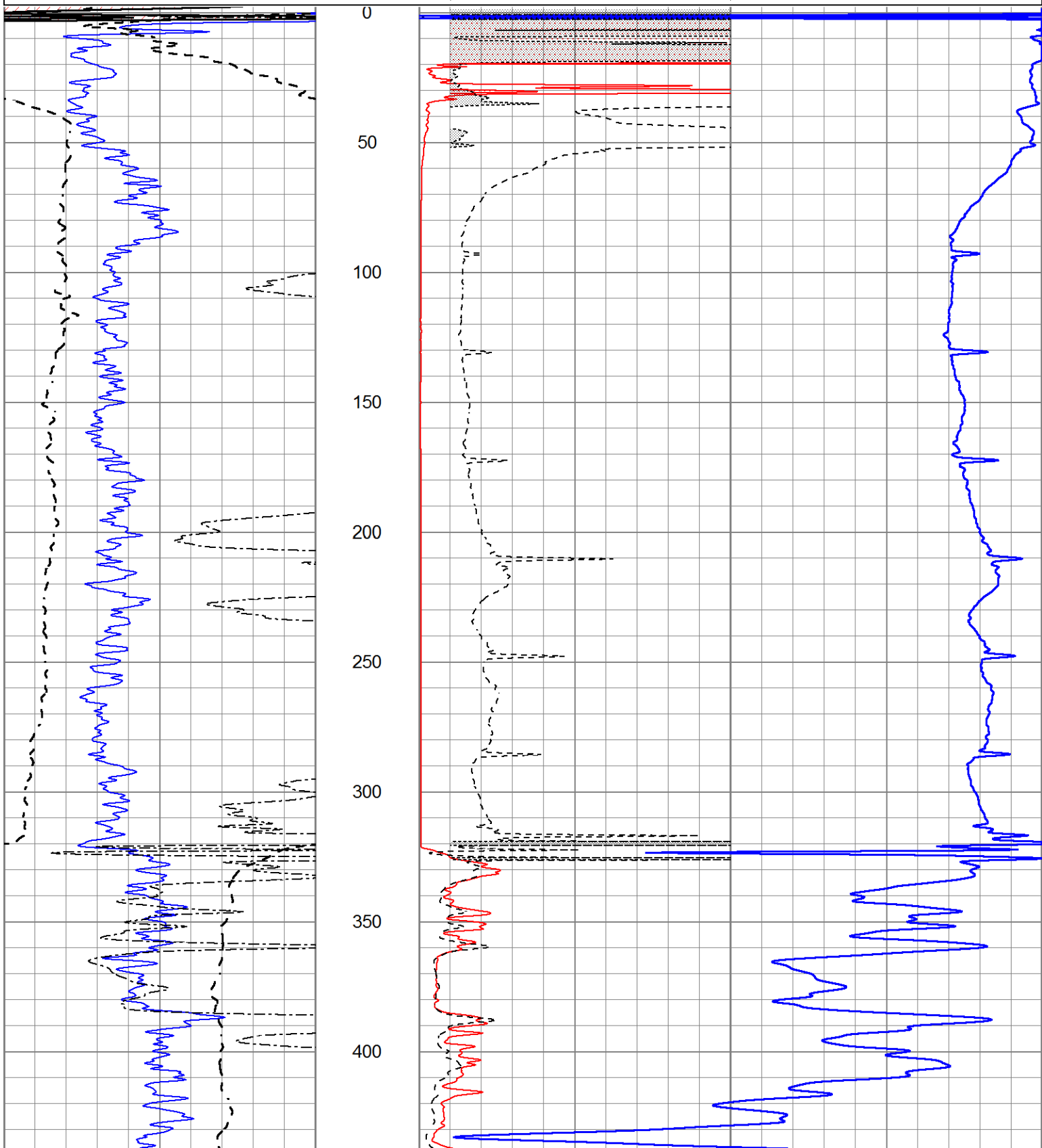


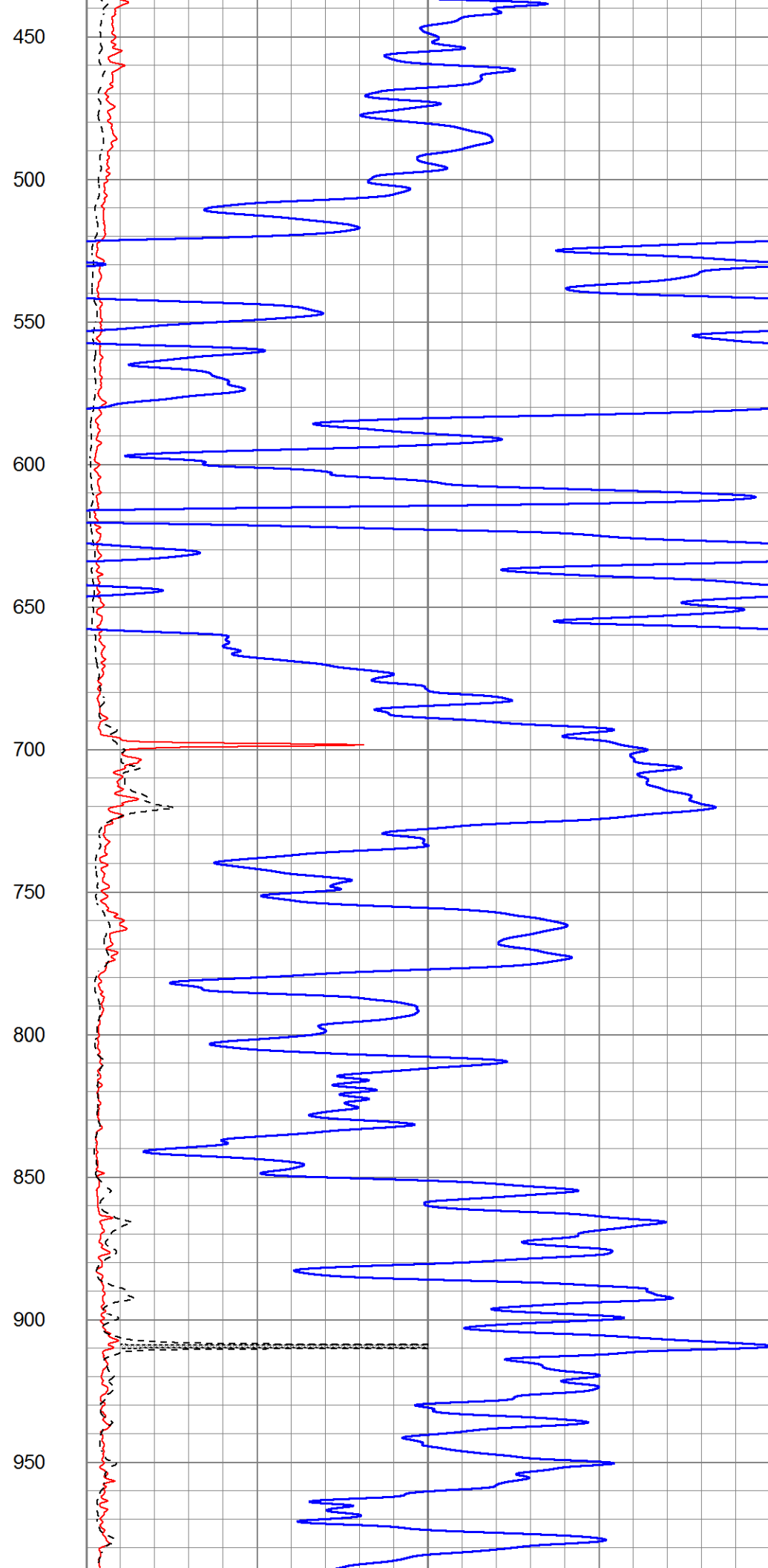
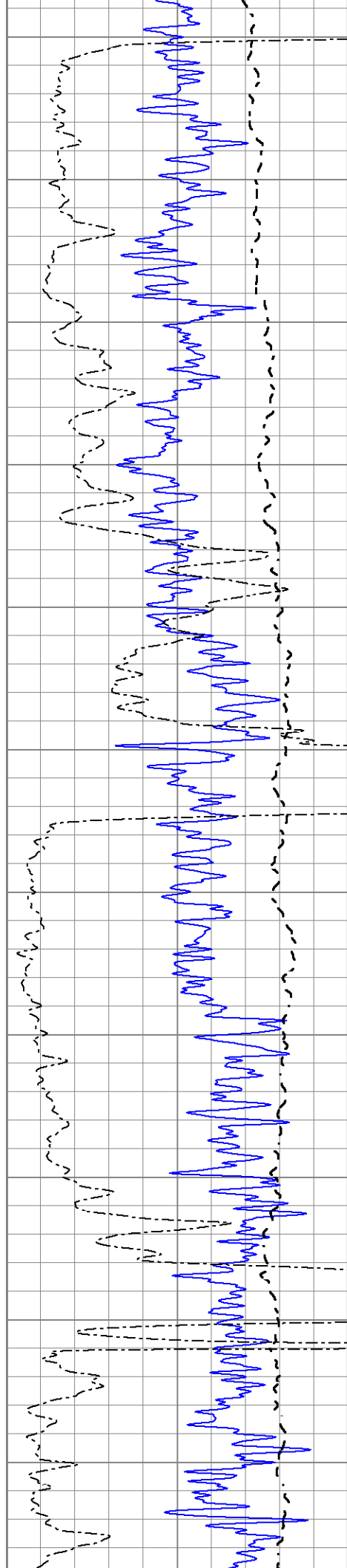
MAIN SECTION

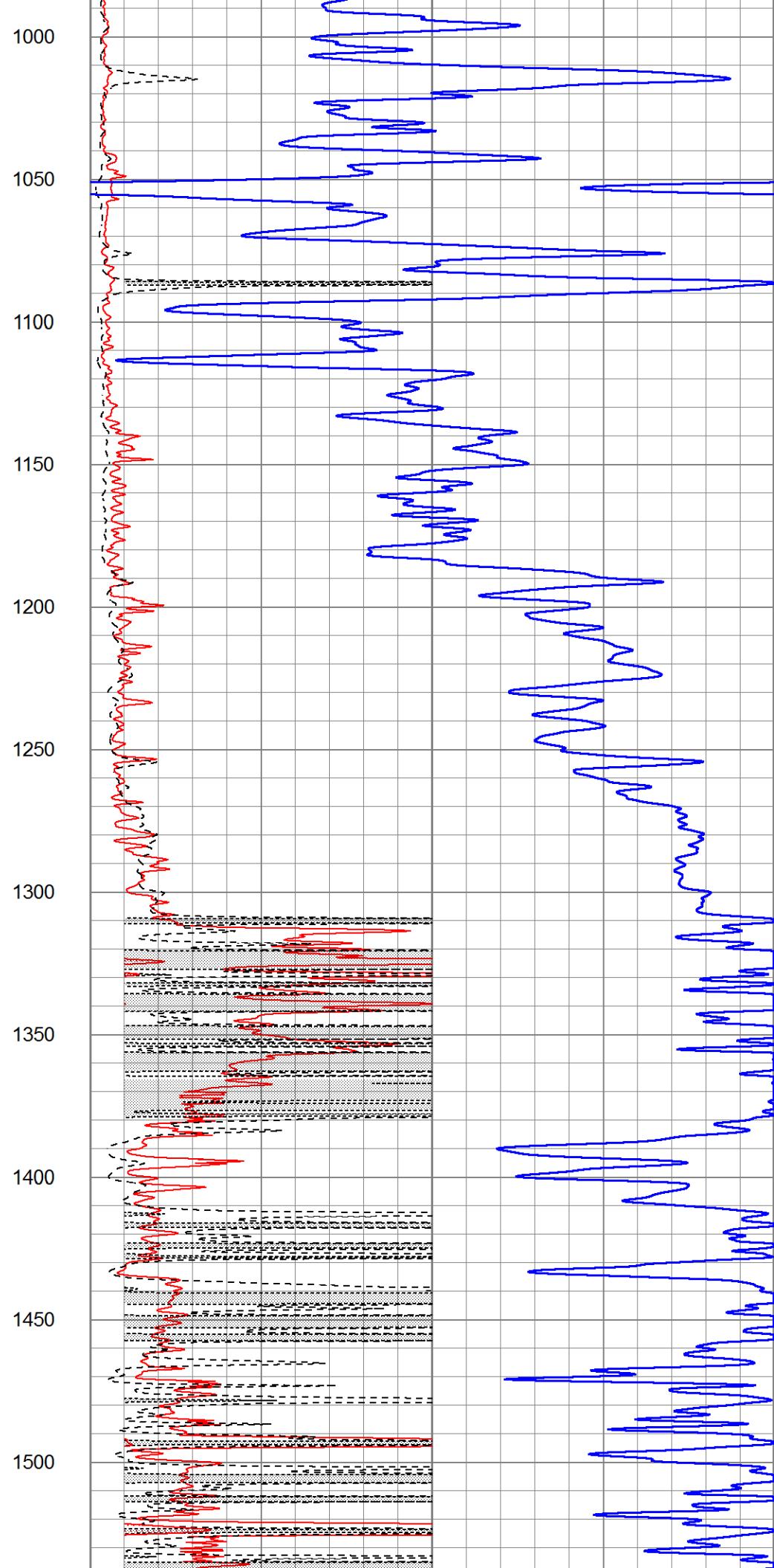
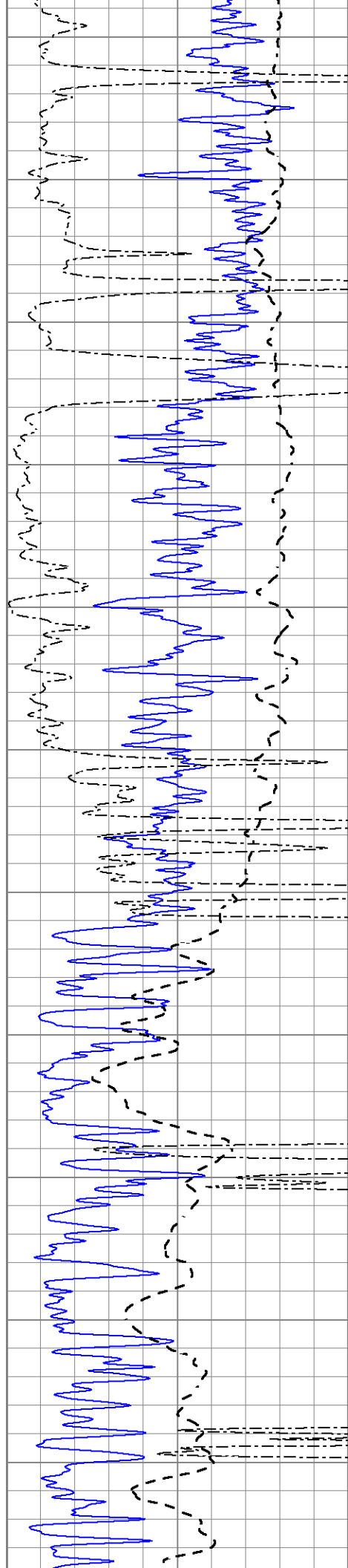
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Dataset Pathname	pass3.1M
Presentation Format	dil2
Dataset Creation	Thu Oct 07 04:29:49 2021
Charted by	Depth in Feet scaled 1:600

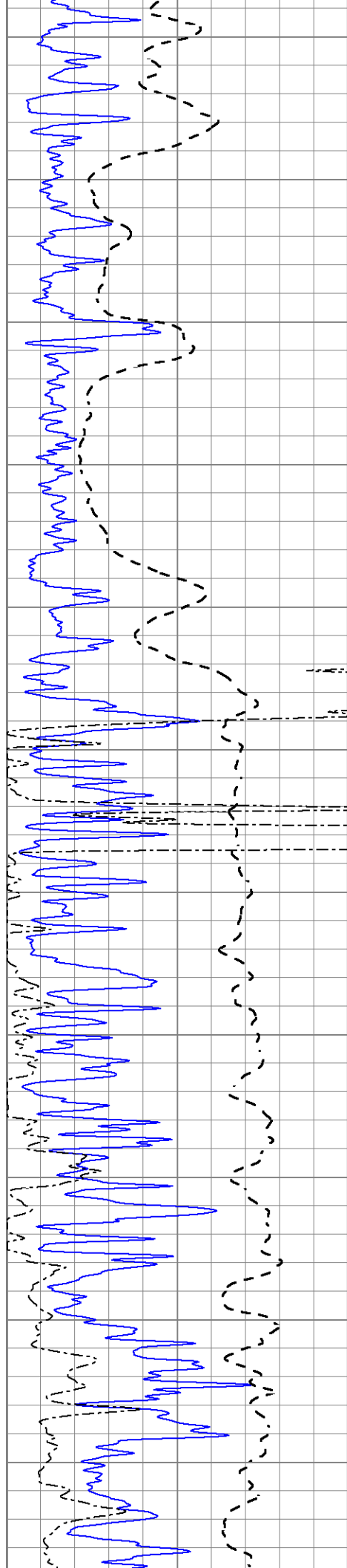
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1

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









1550

1600

1650

1700

1750

1800

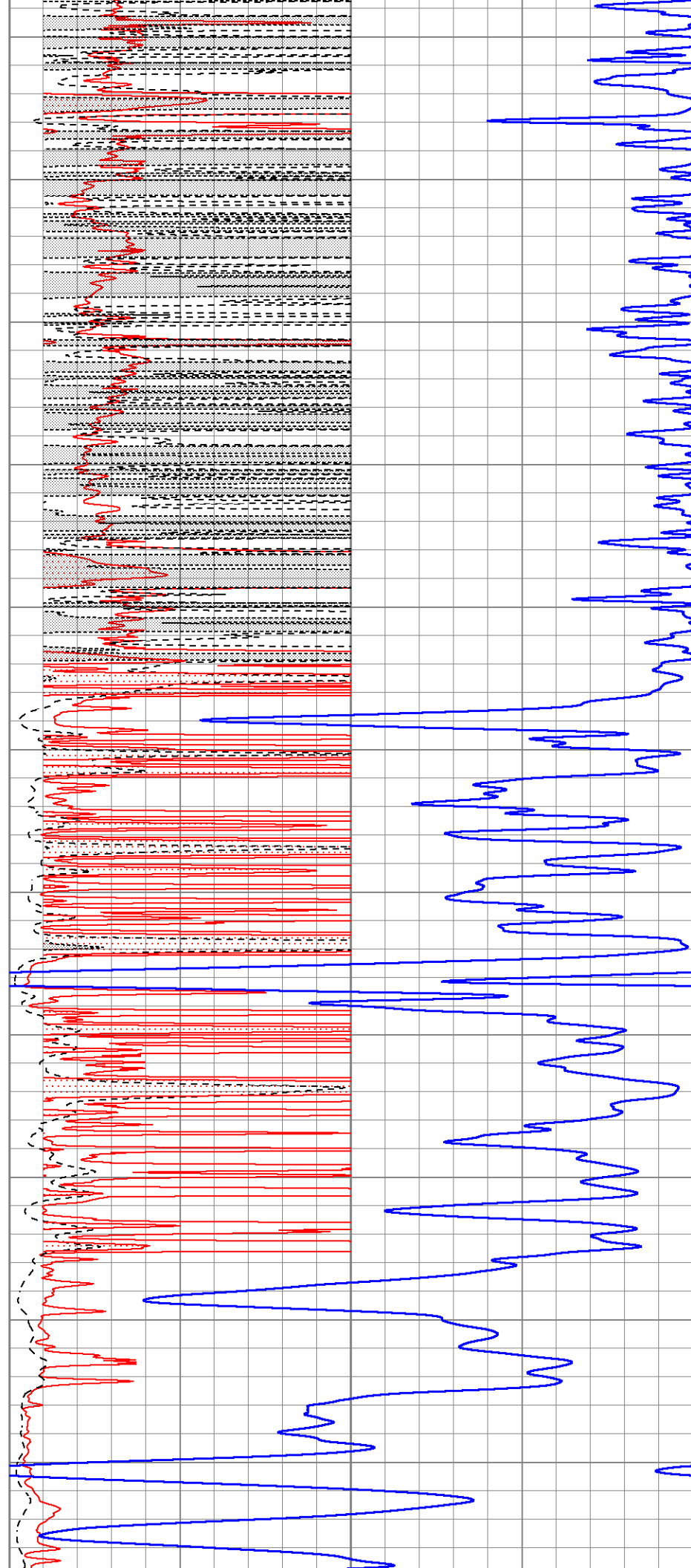
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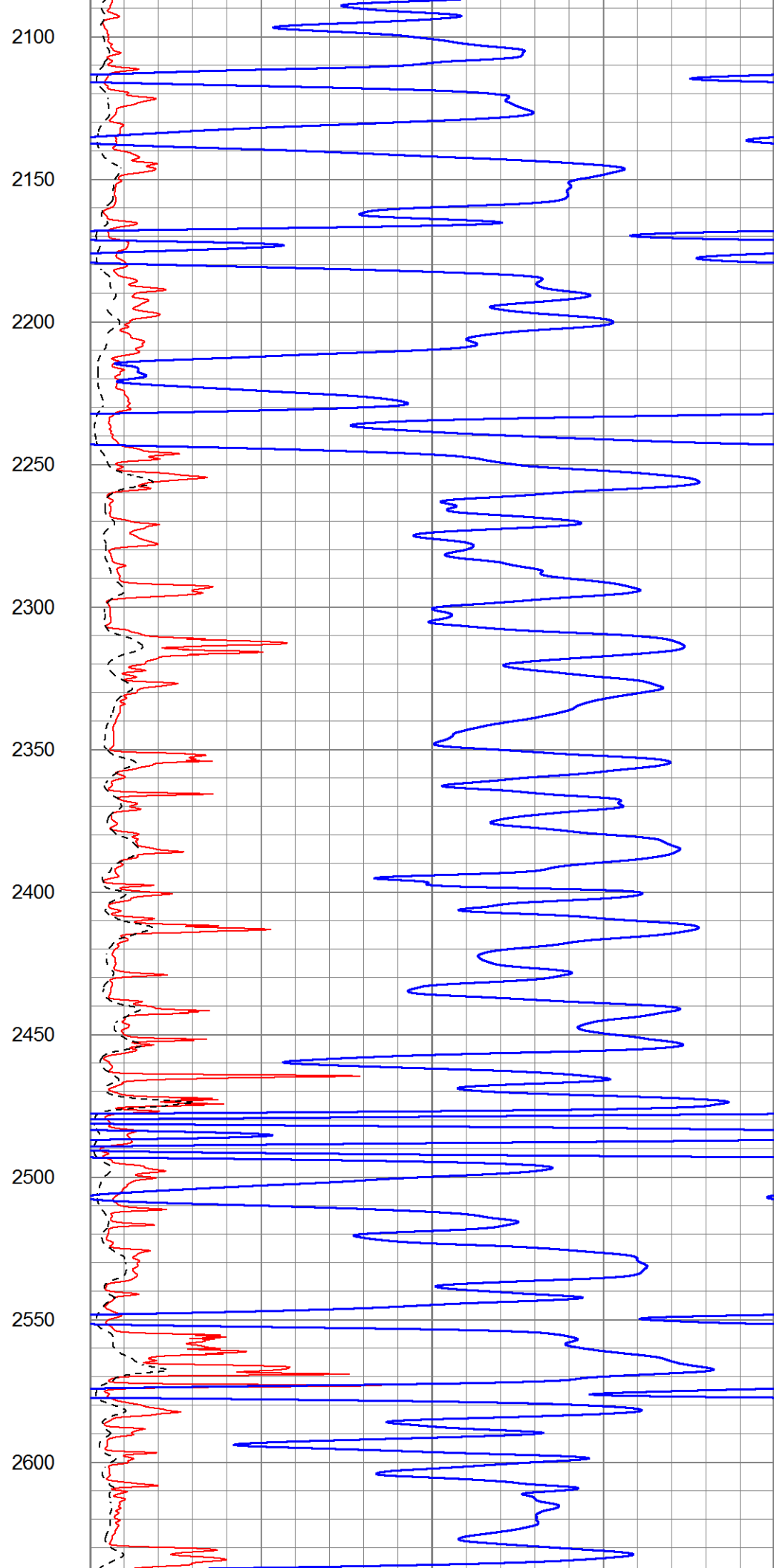
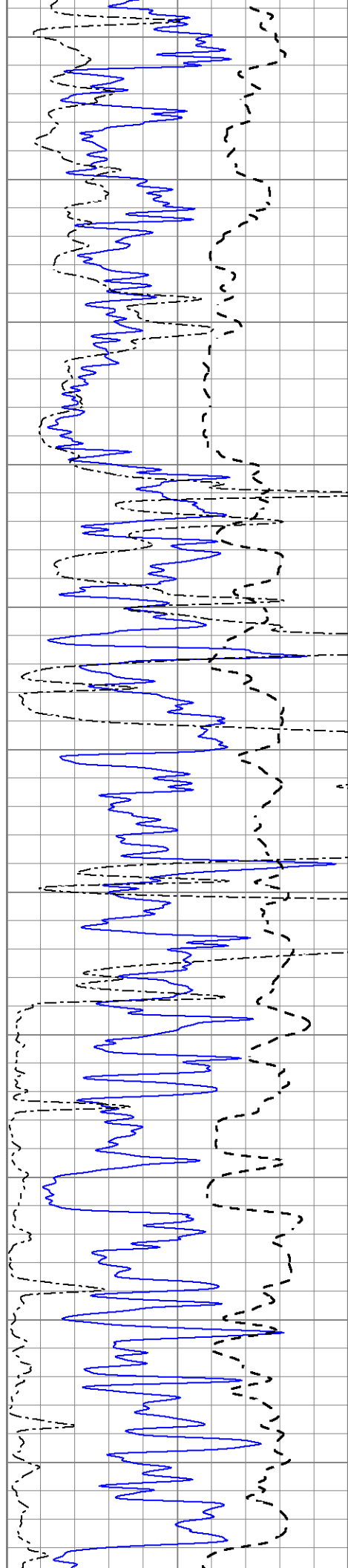
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1950

2000

2050





2650

2700

2750

2800

2850

2900

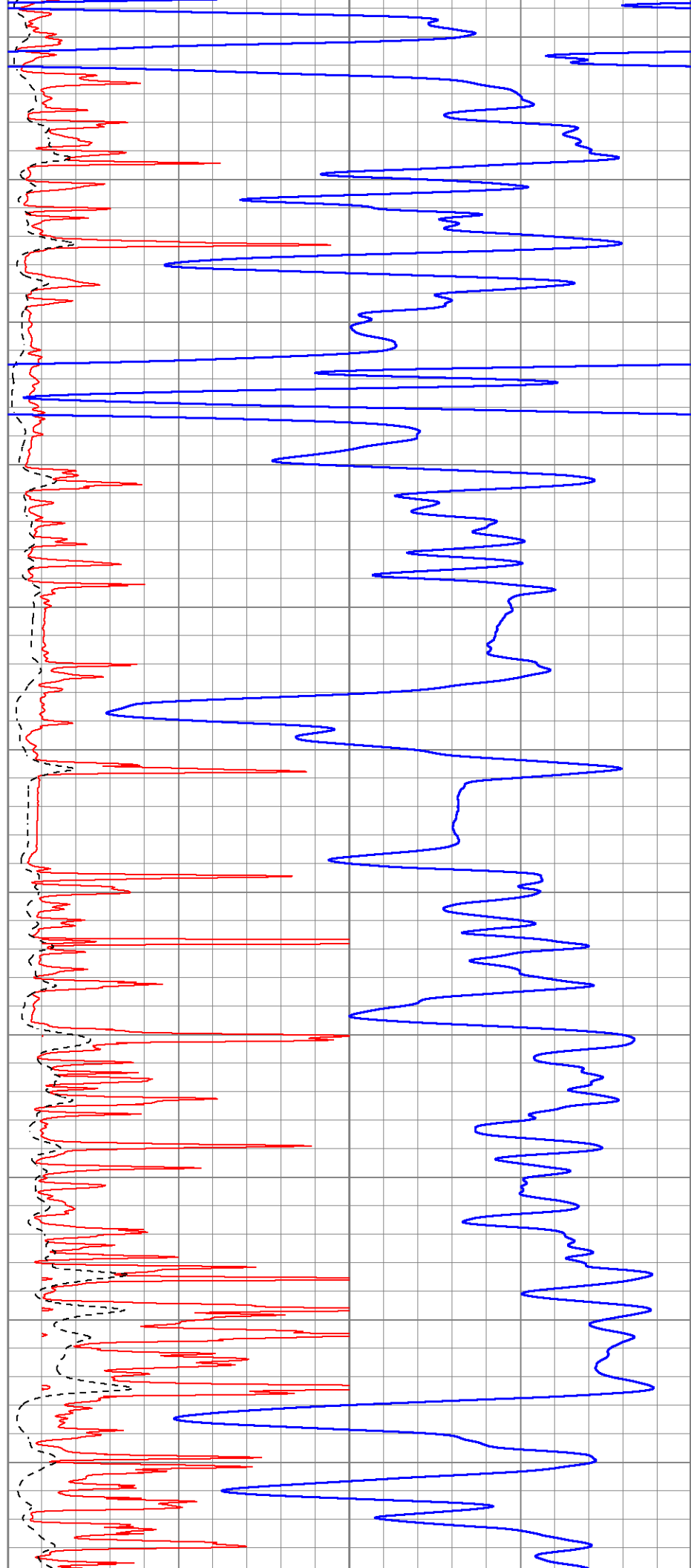
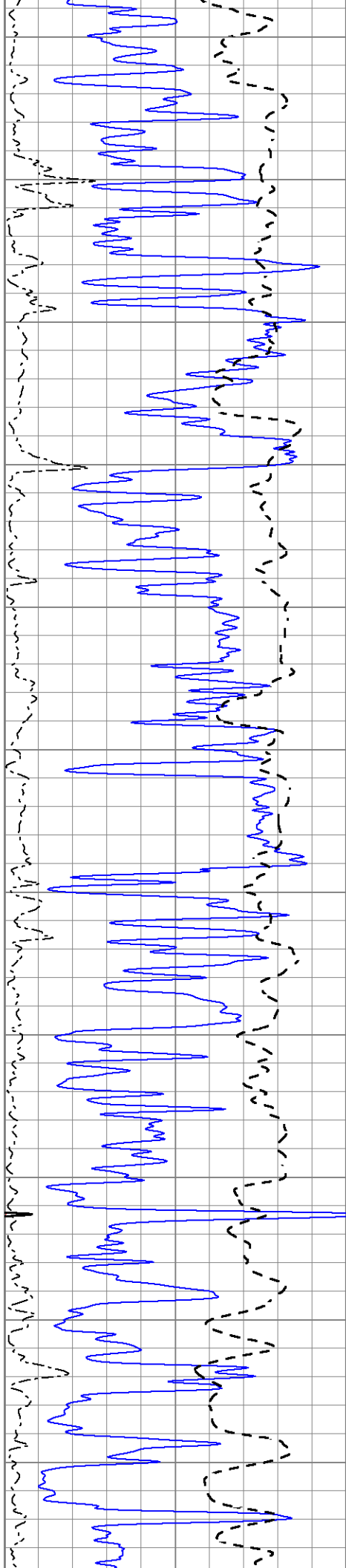
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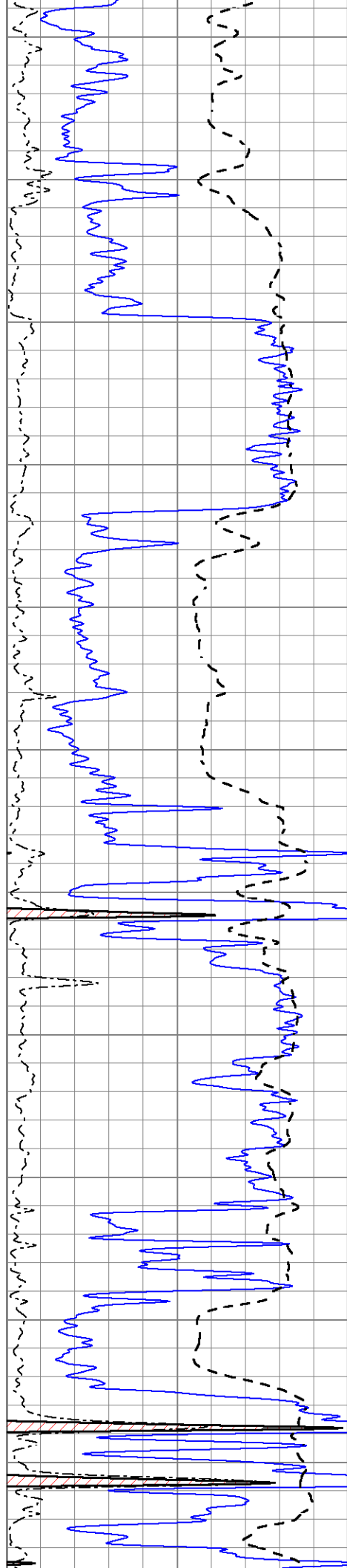
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3050

3100

3150





3200

3250

3300

3350

3400

3450

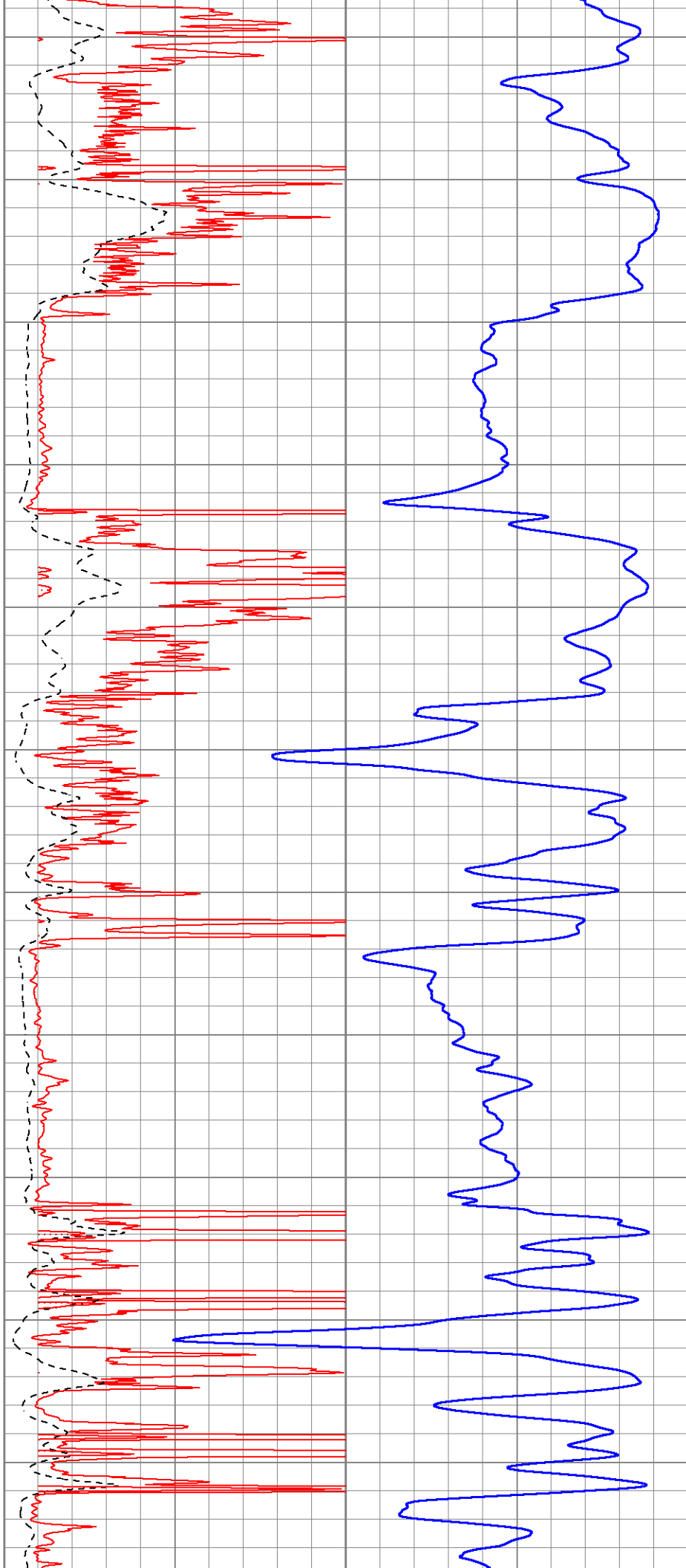
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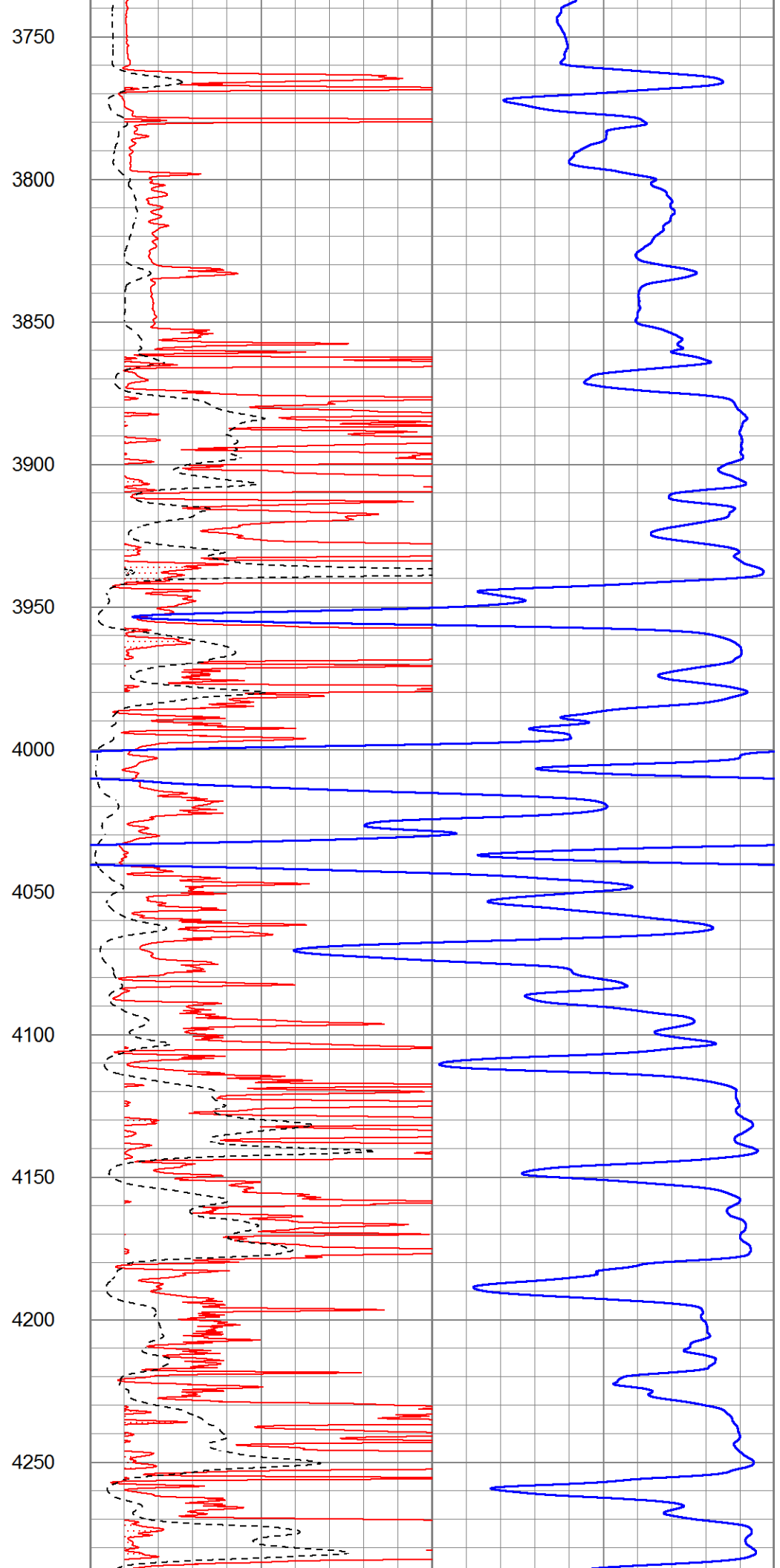
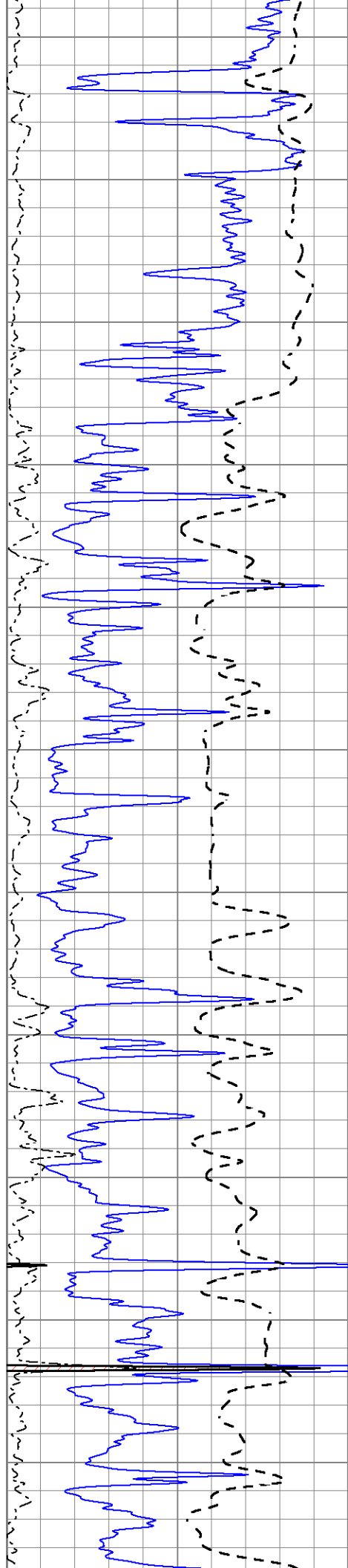
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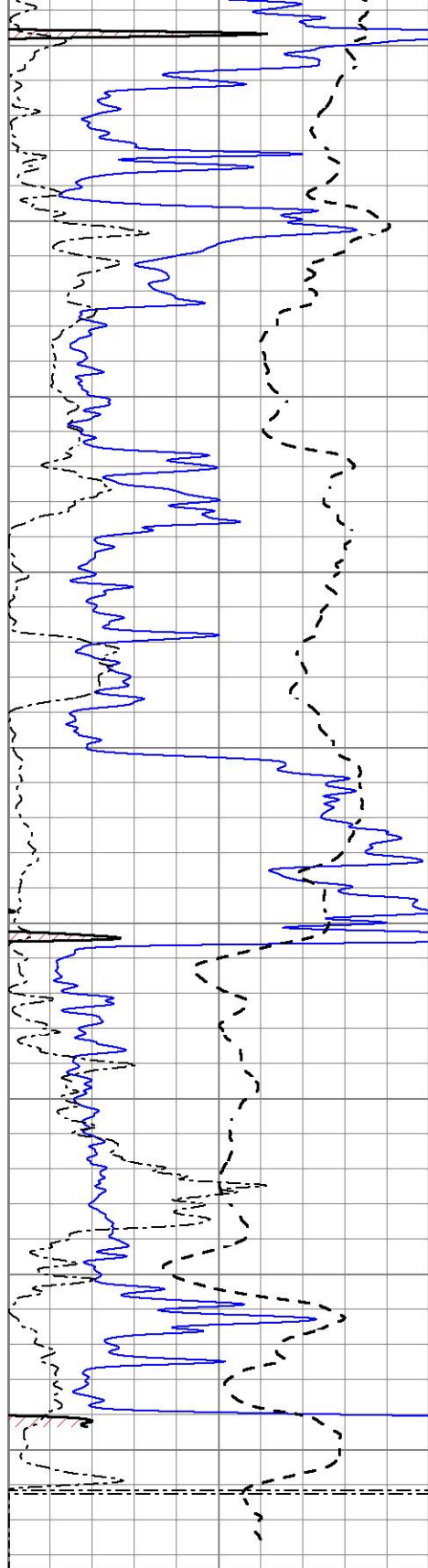
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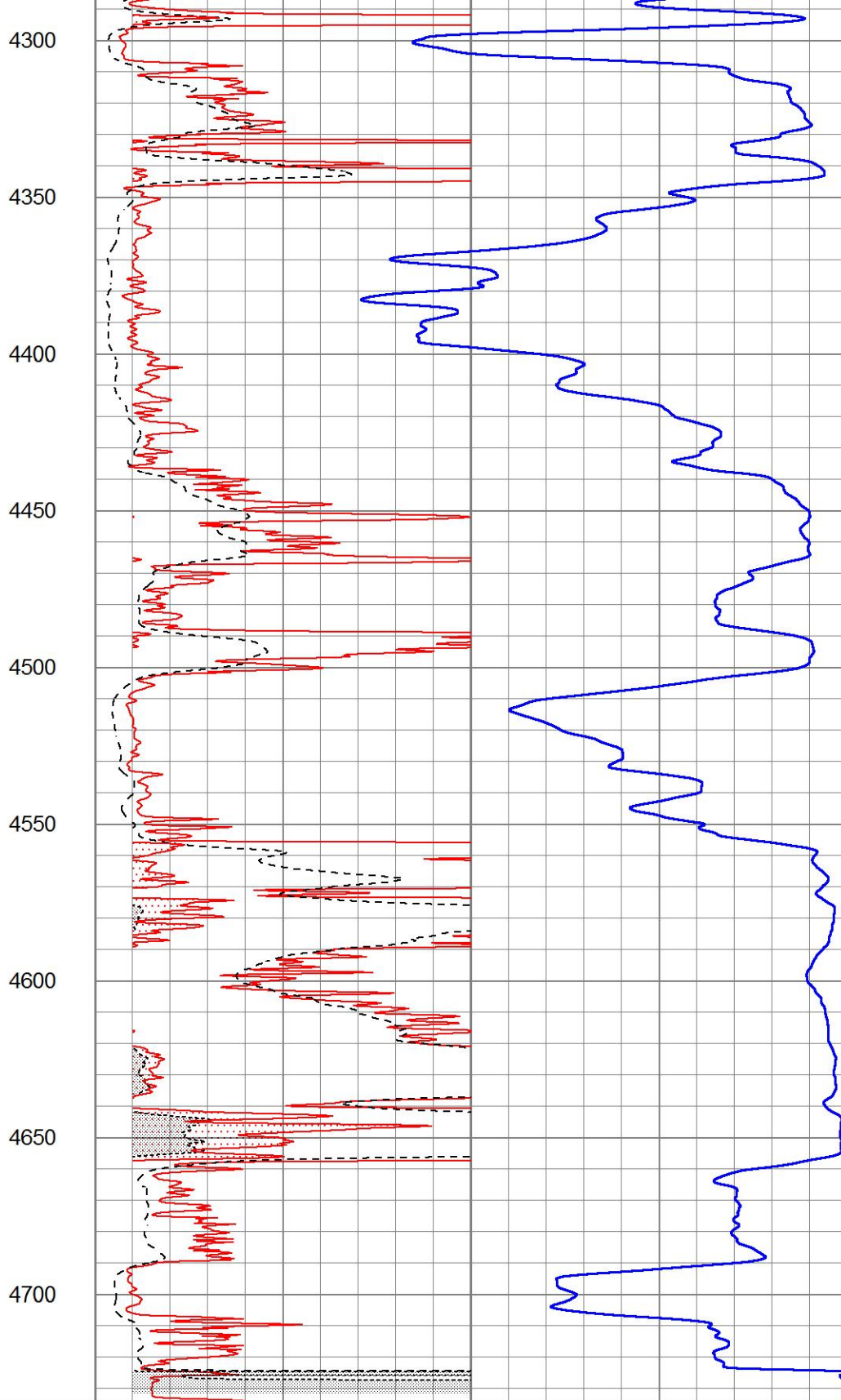
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0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1



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



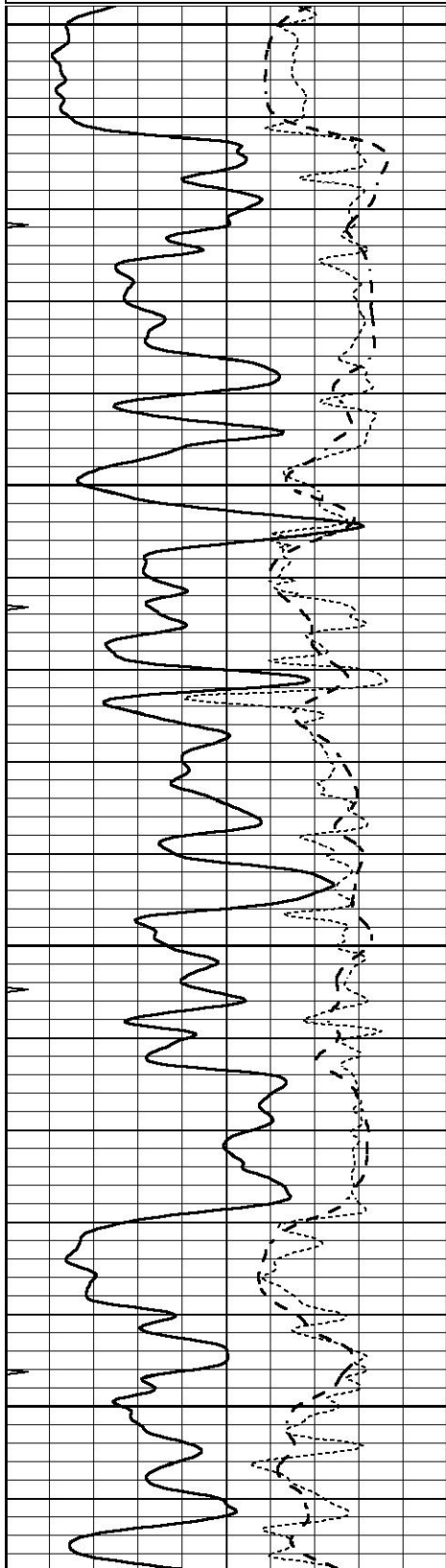
MAIN SECTION

MAIN SECTION

Database File 5665pe.db
 Dataset Pathname pass3.1M
 Presentation Format _dil
 Dataset Creation Thu Oct 07 04:29:49 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

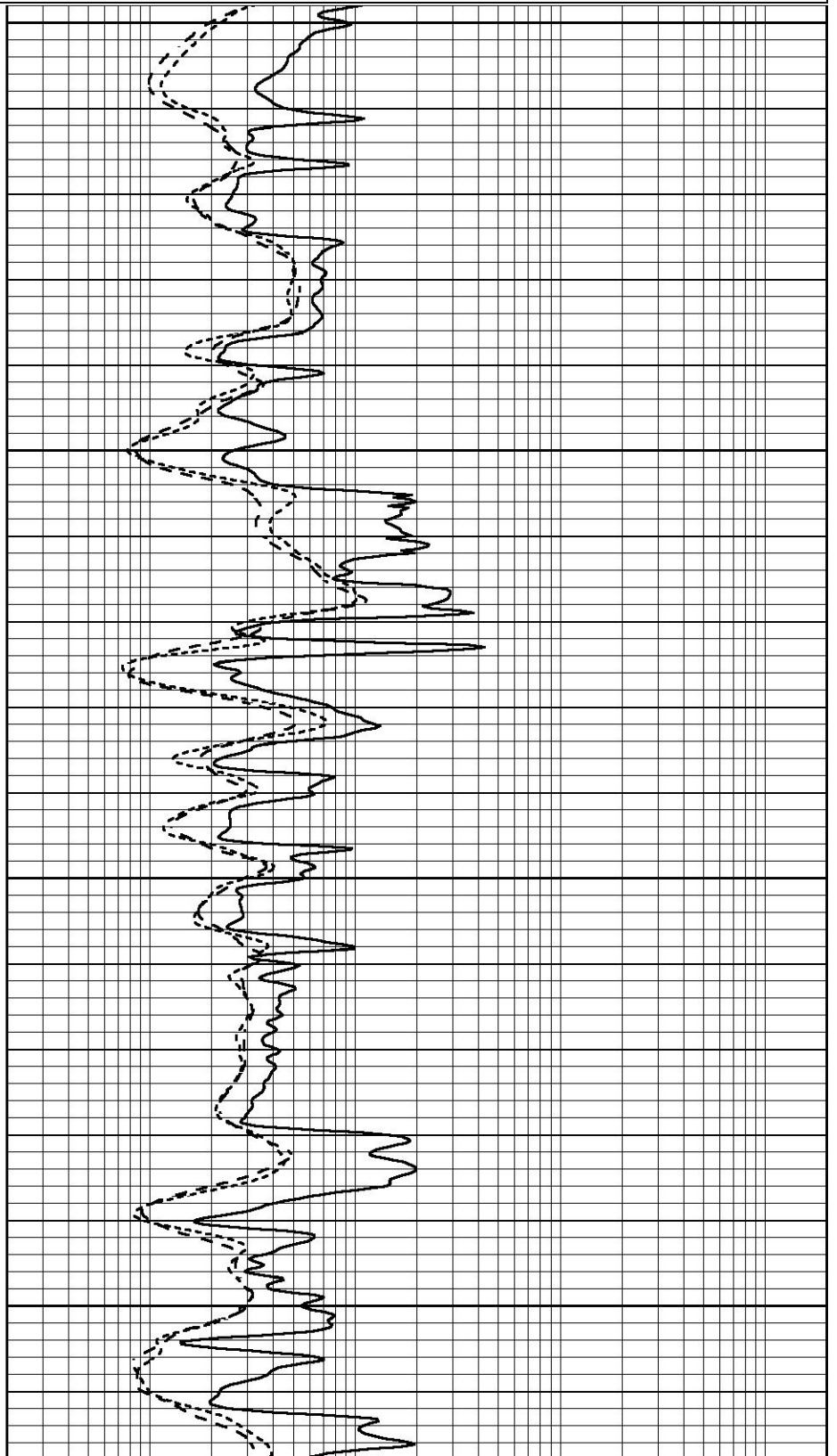


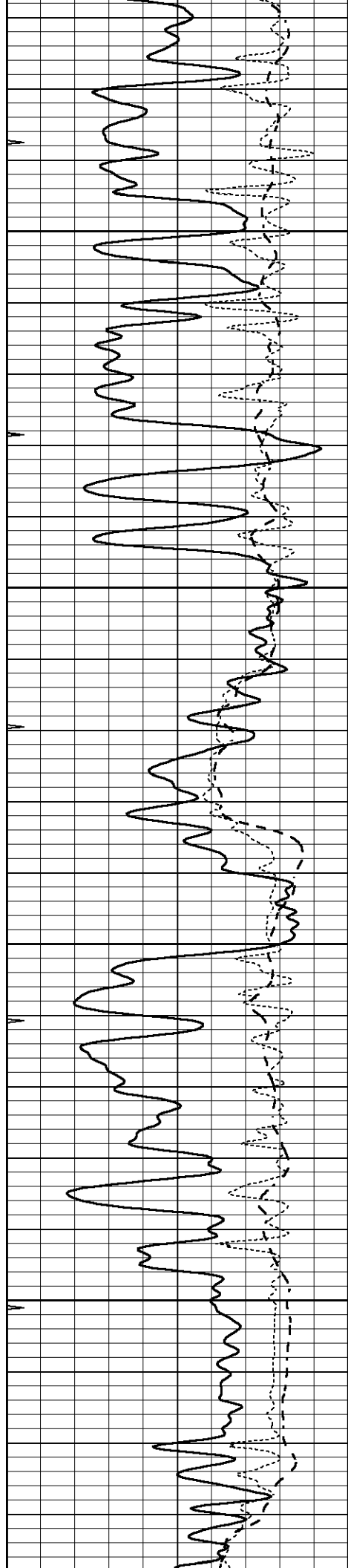
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2600

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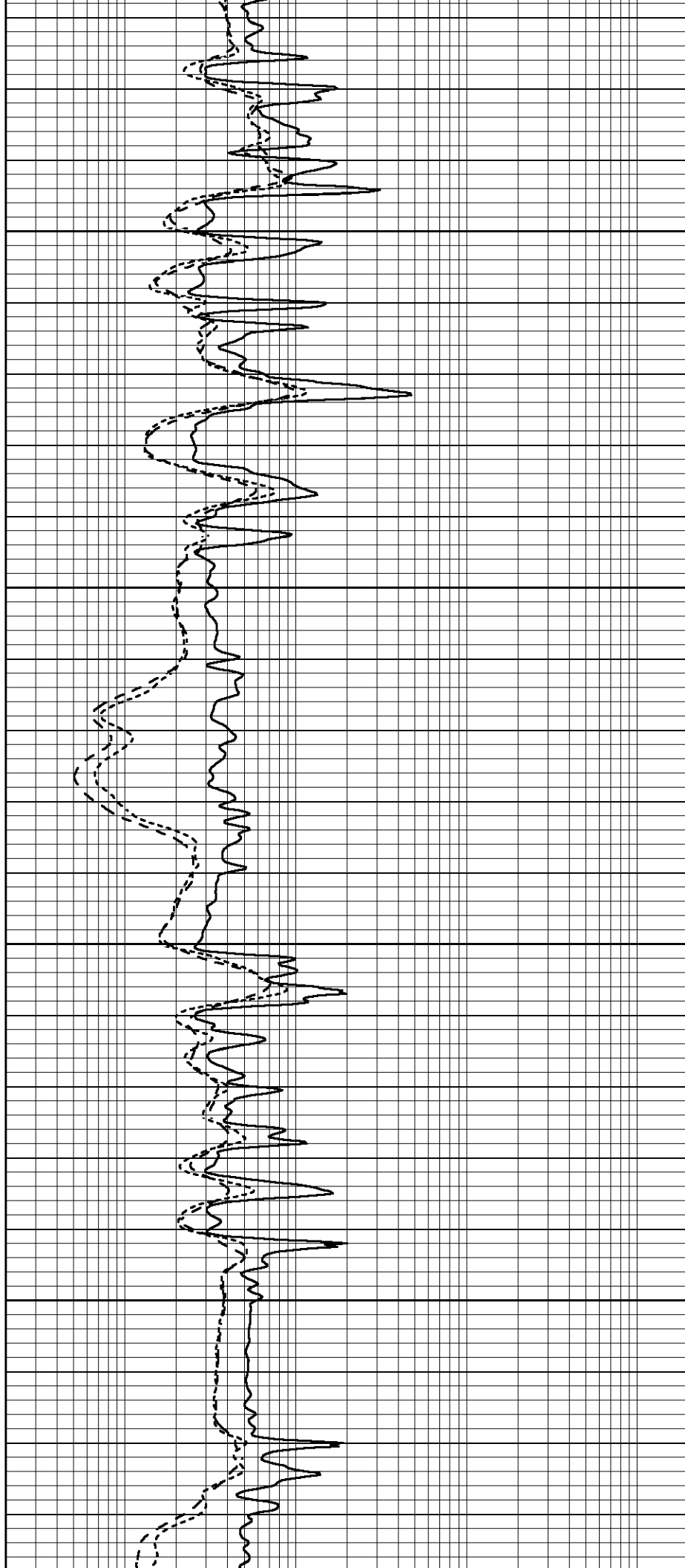


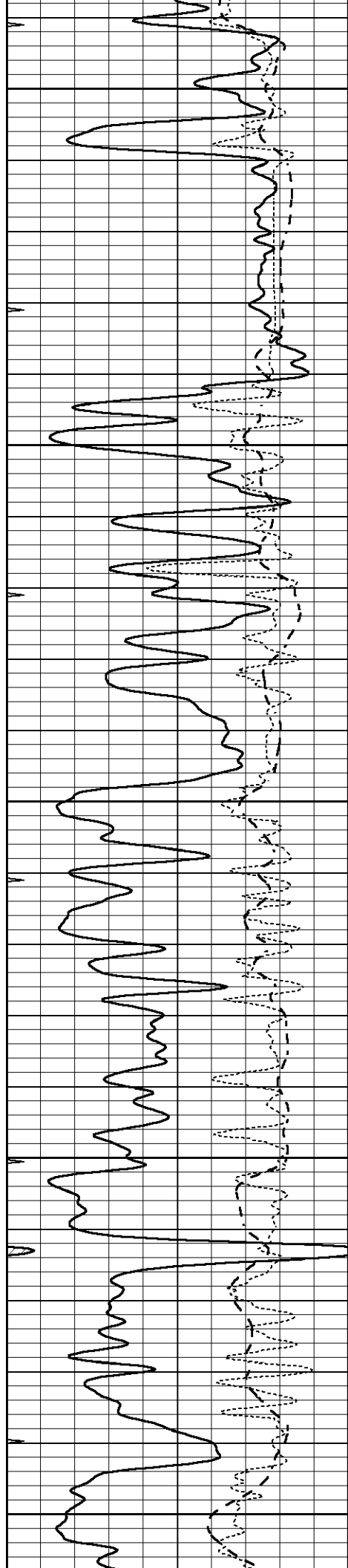
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2850





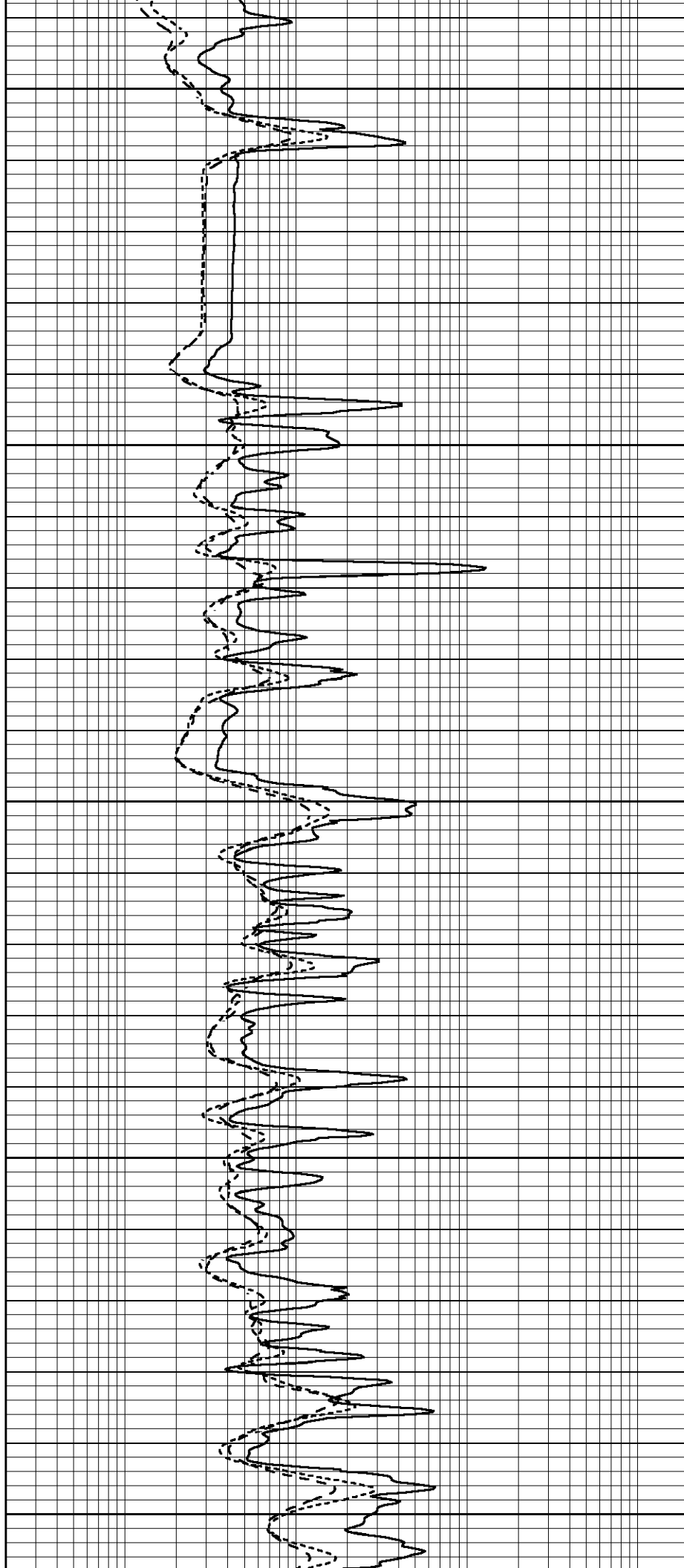
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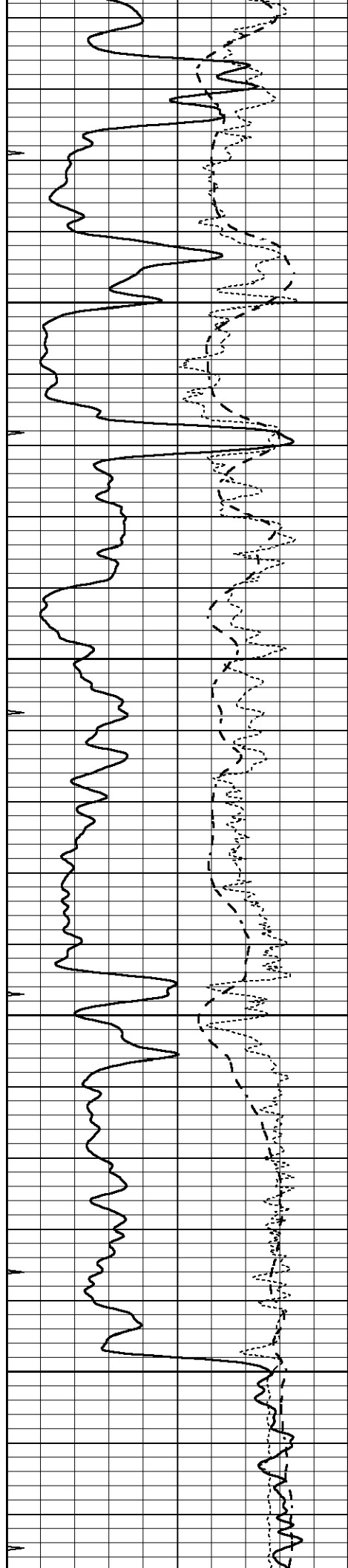
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3000

3050

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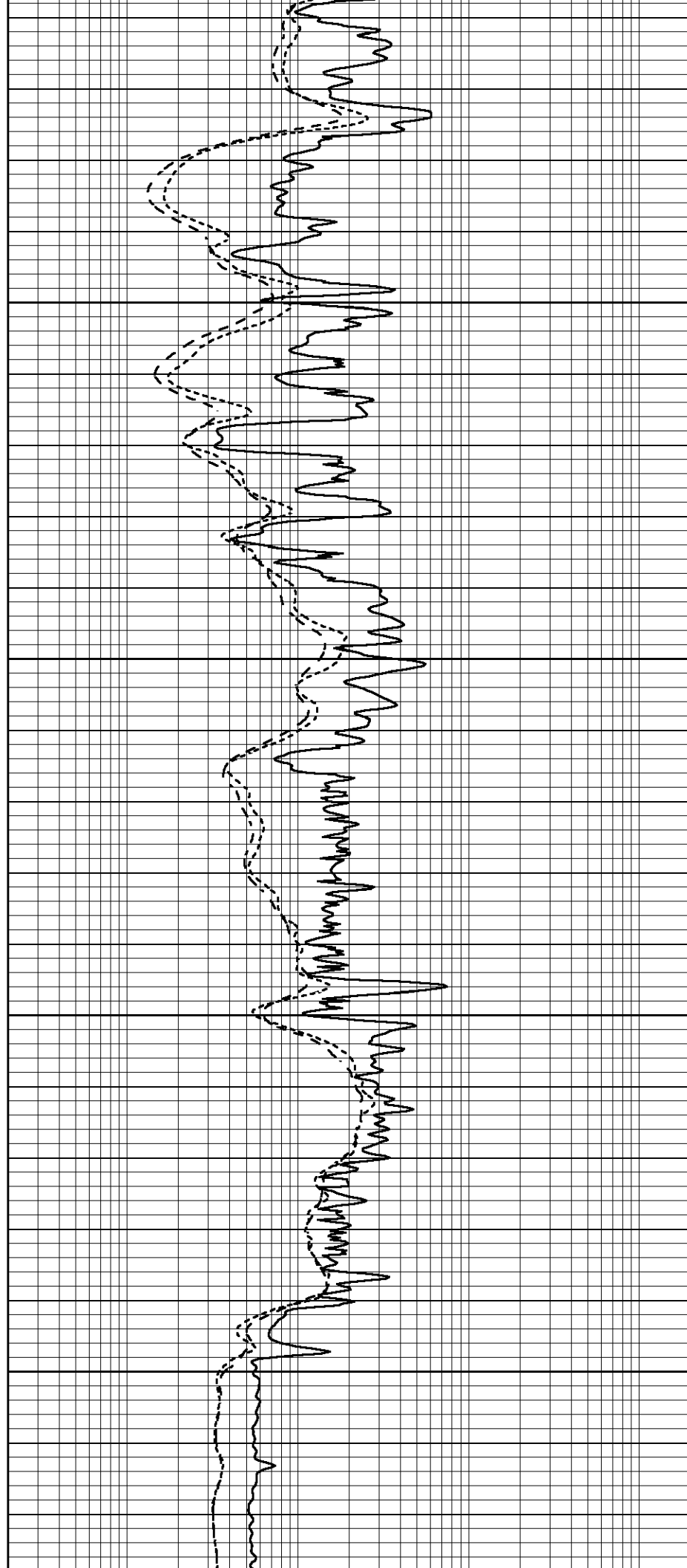


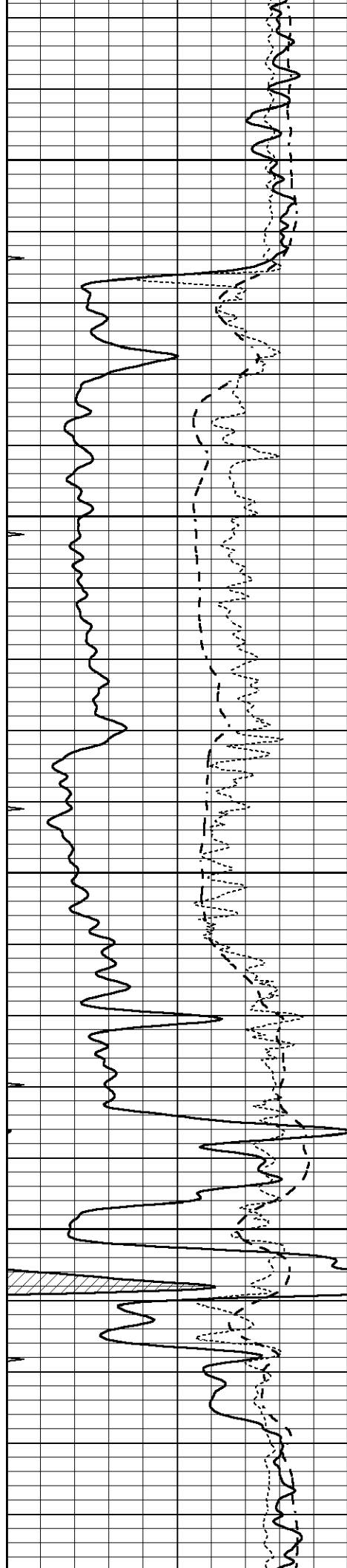
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3200

3250

3300



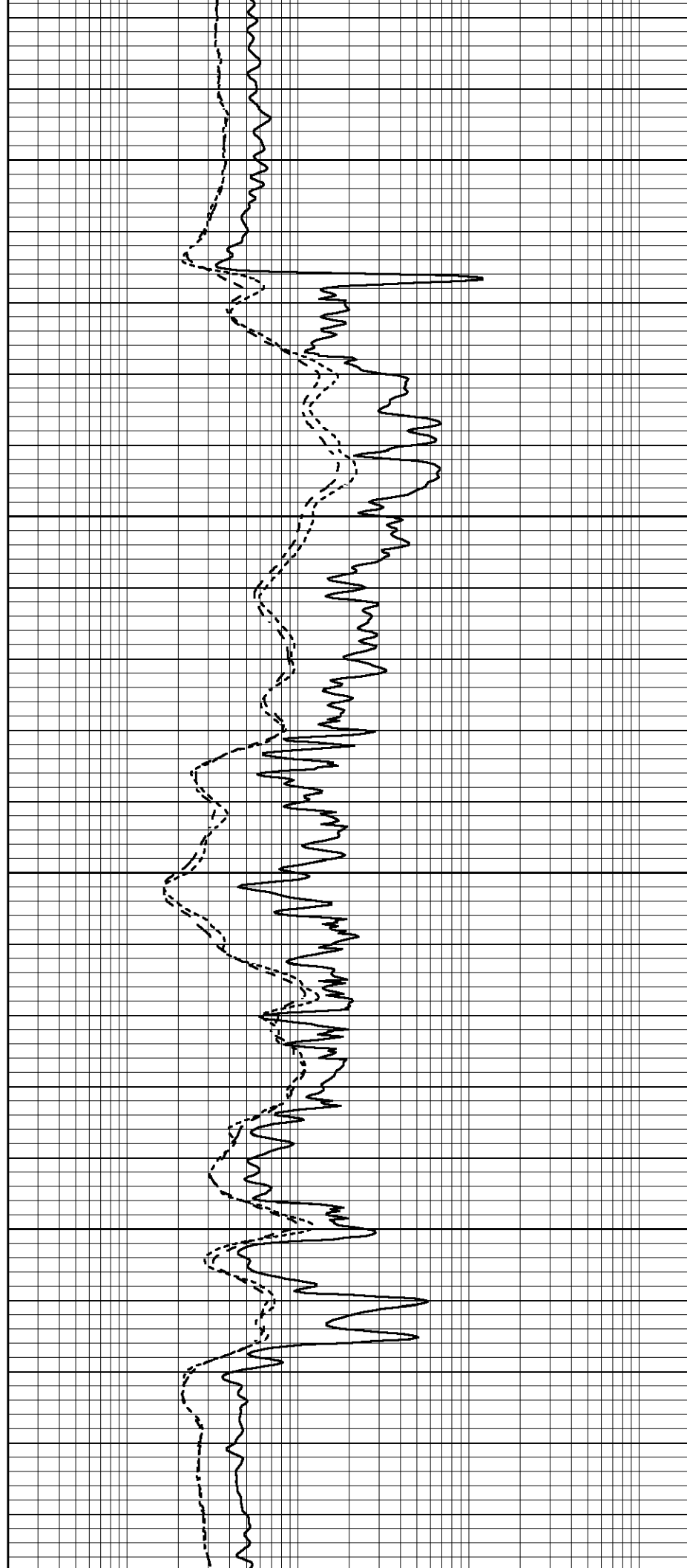


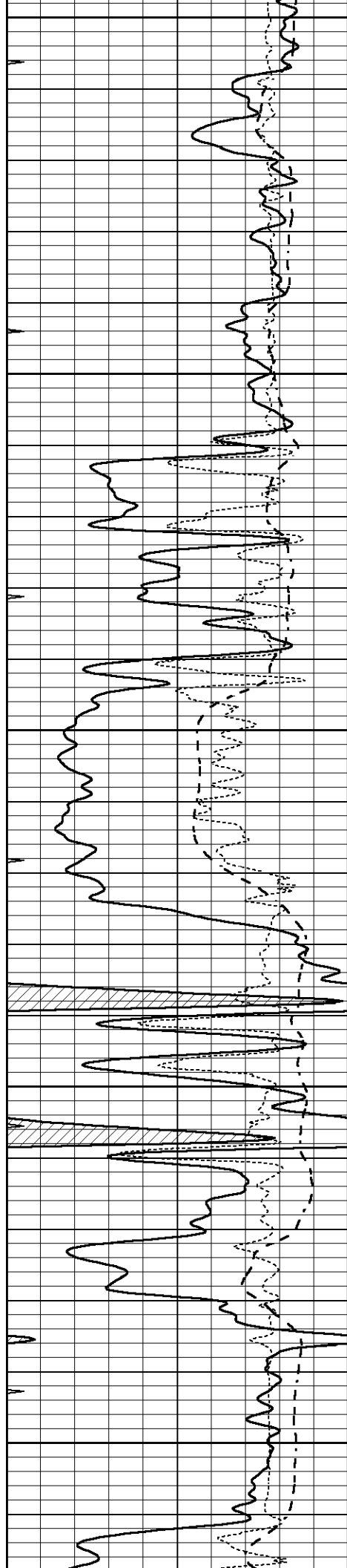
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3500





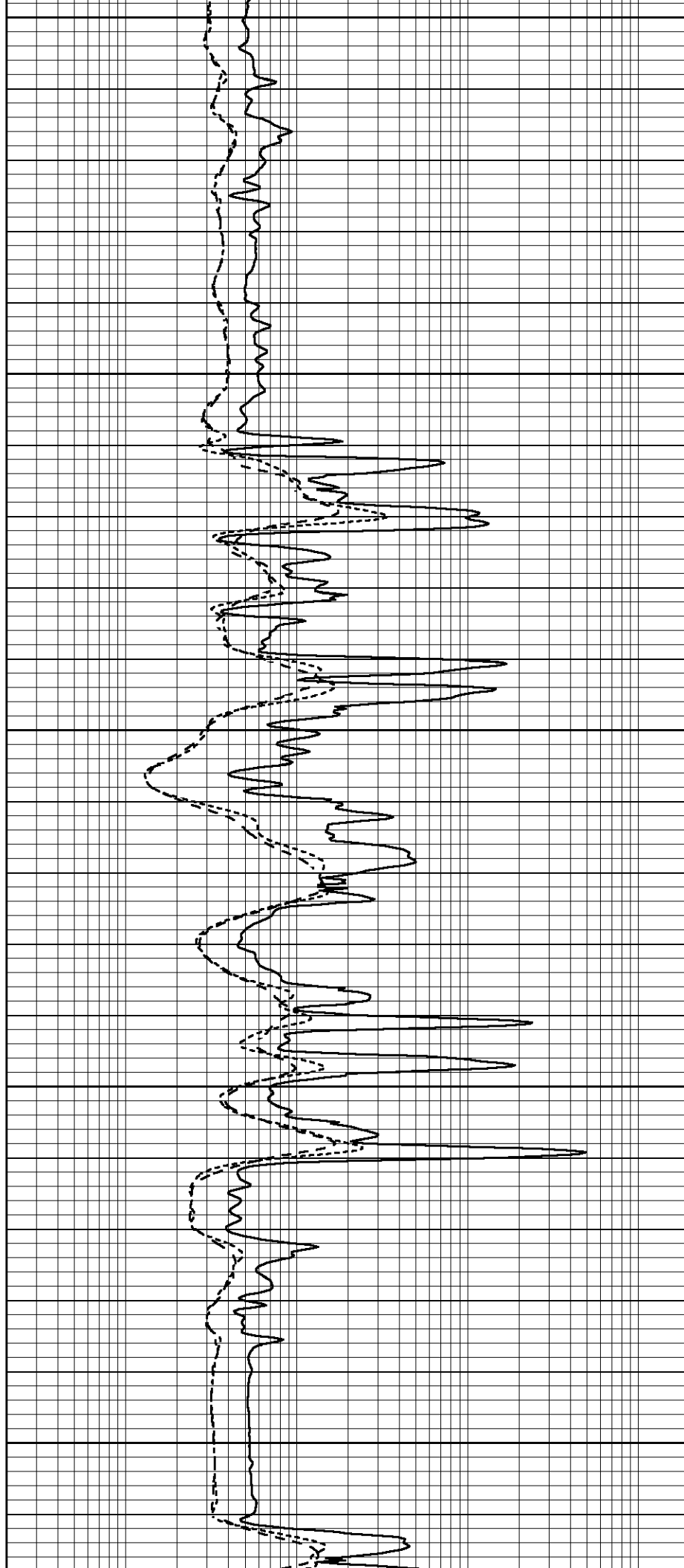
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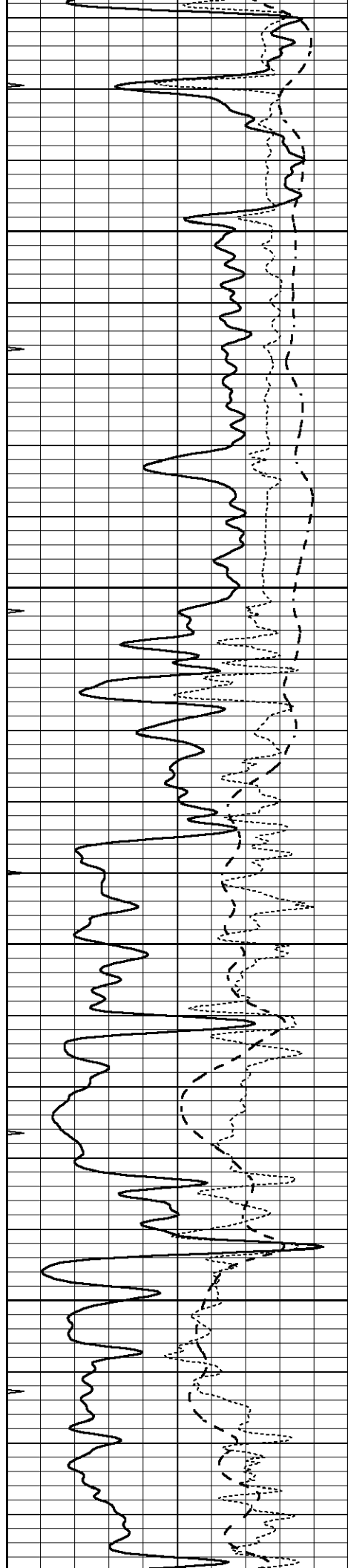
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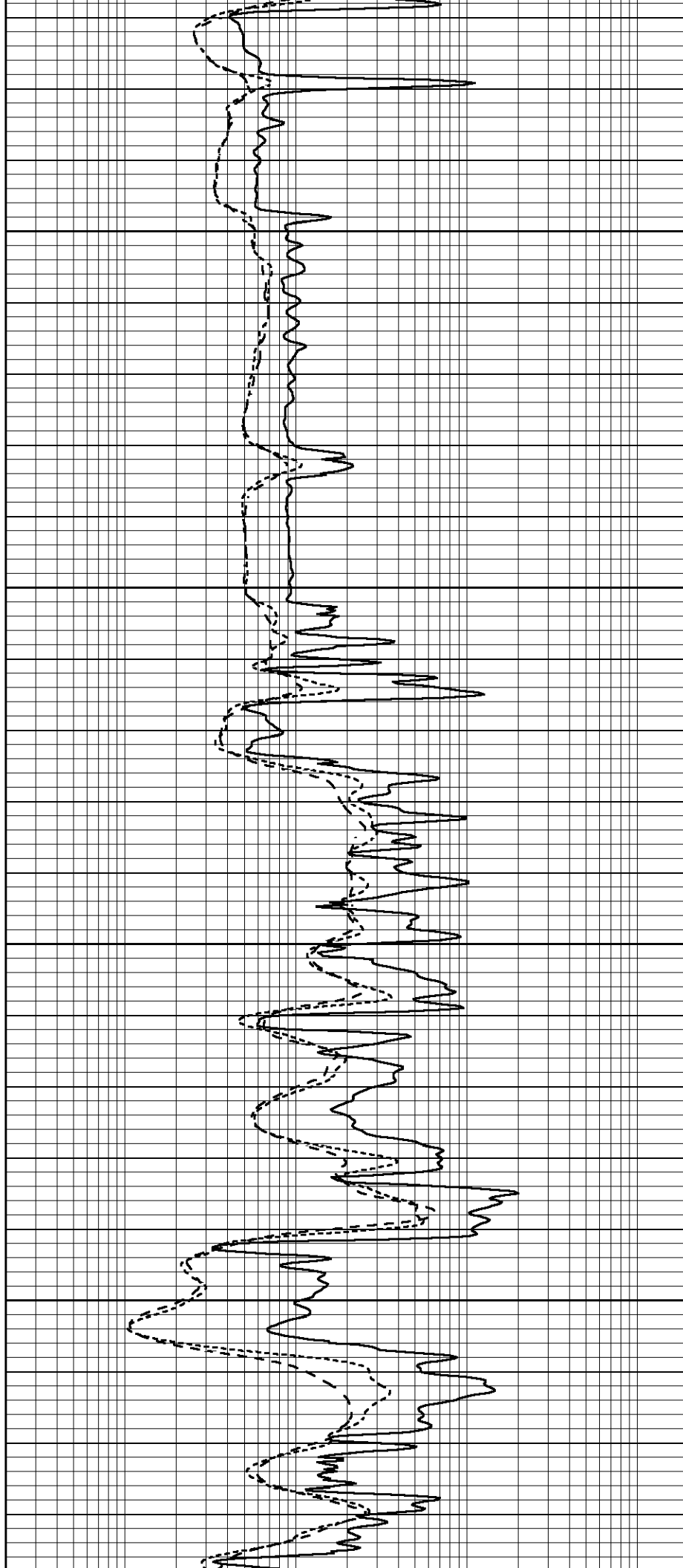


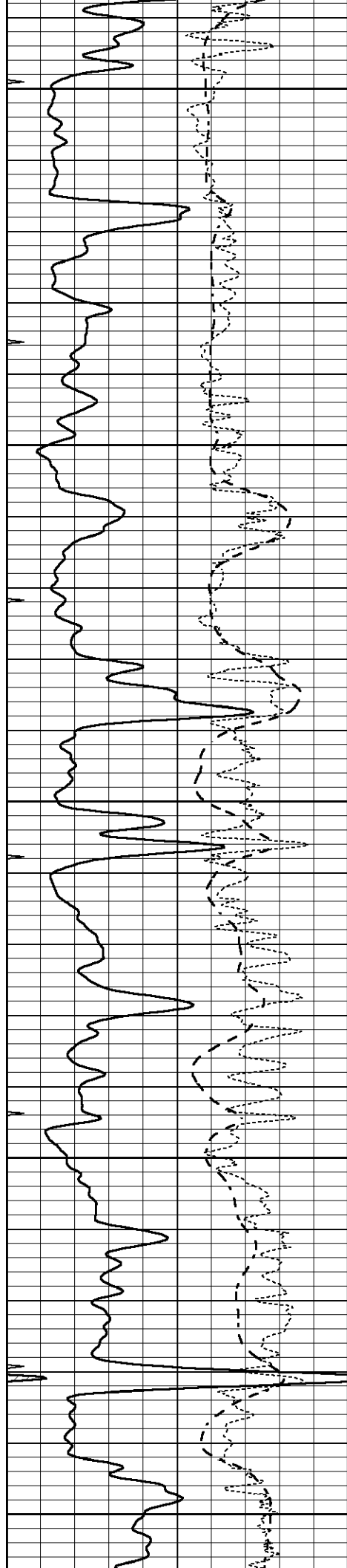
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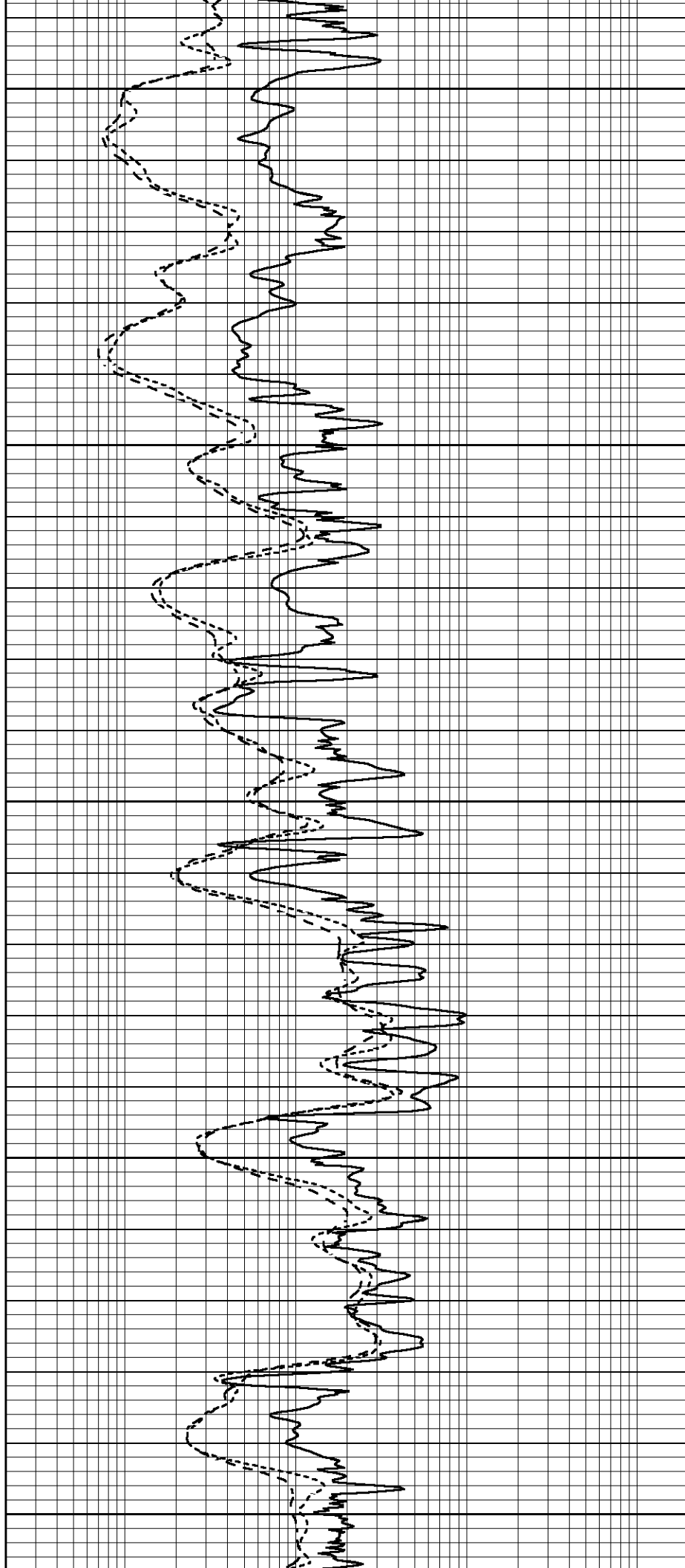
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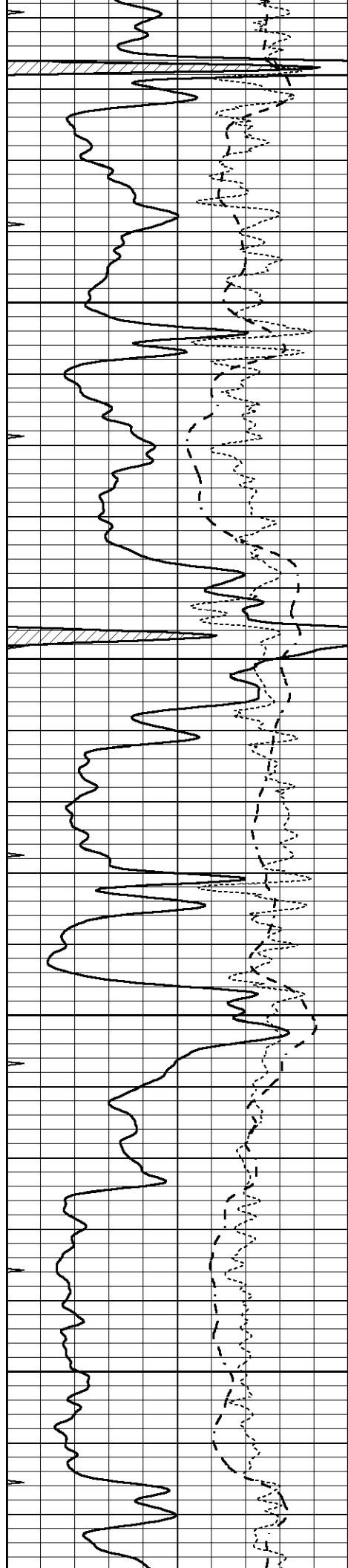
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4200



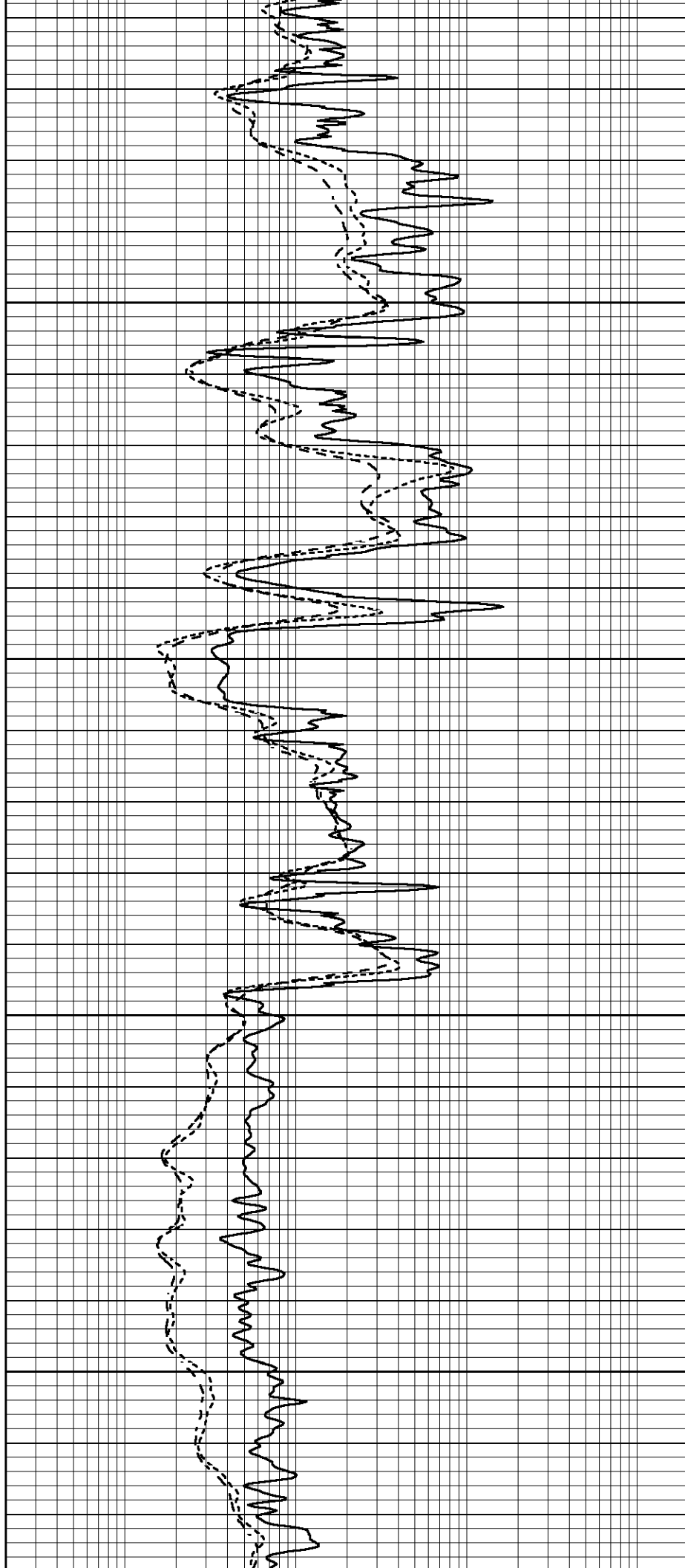


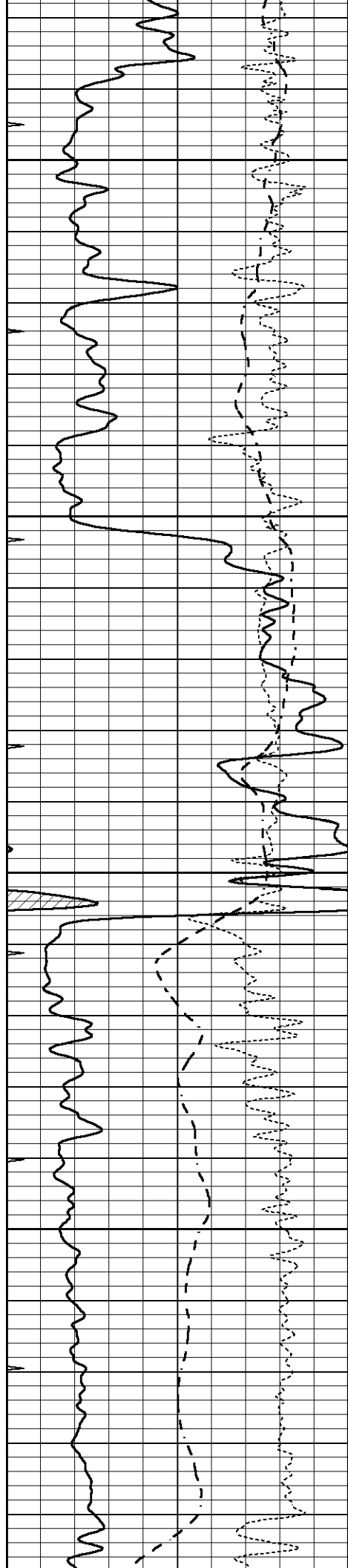
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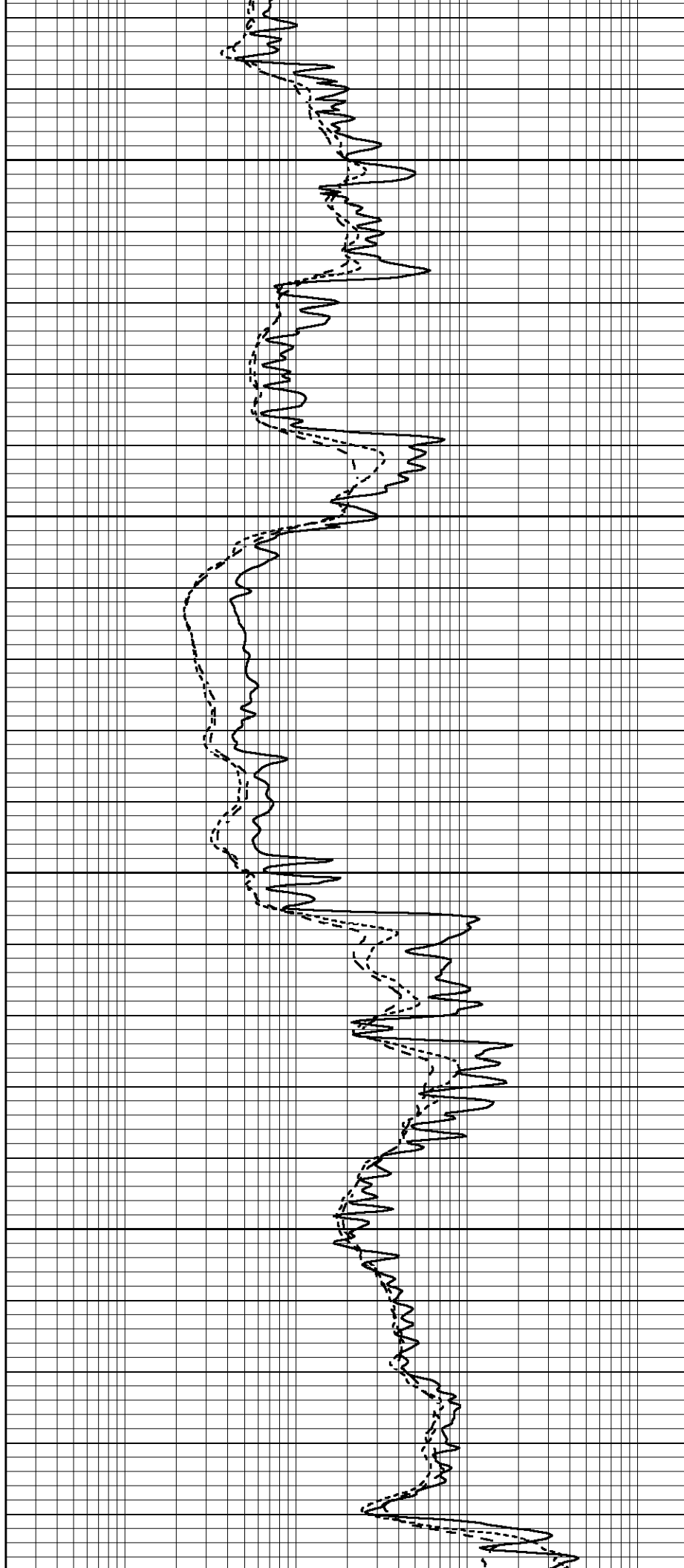


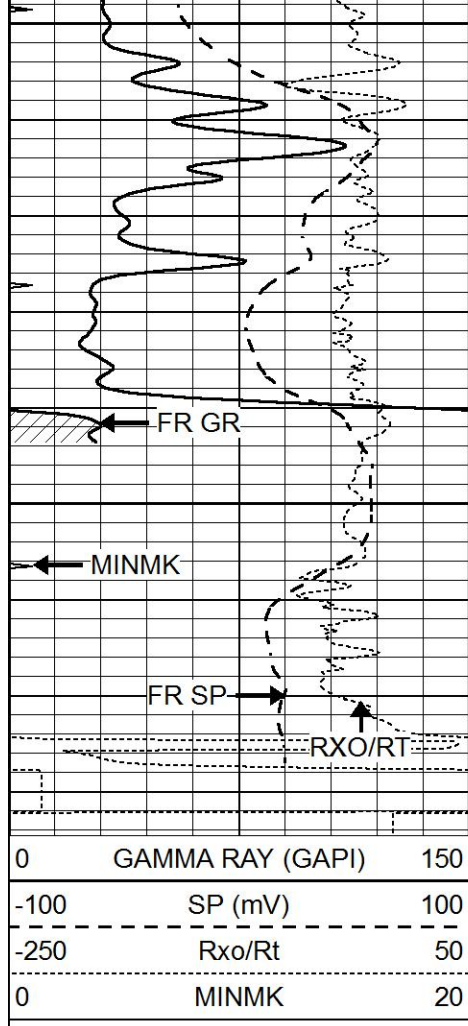
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4600

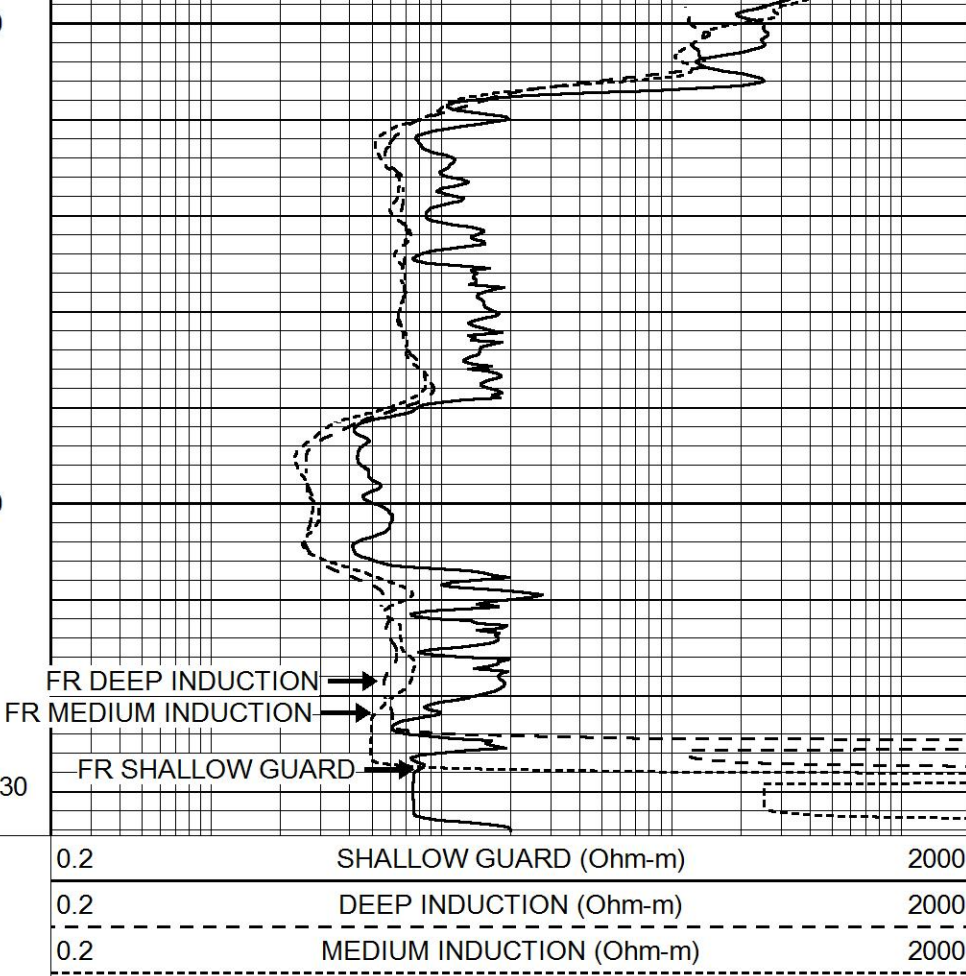




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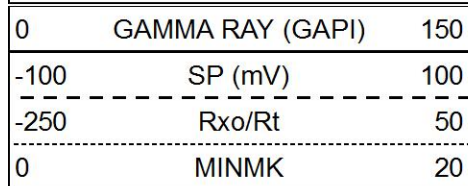
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LTD 4730

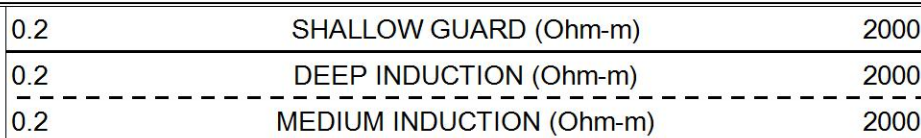


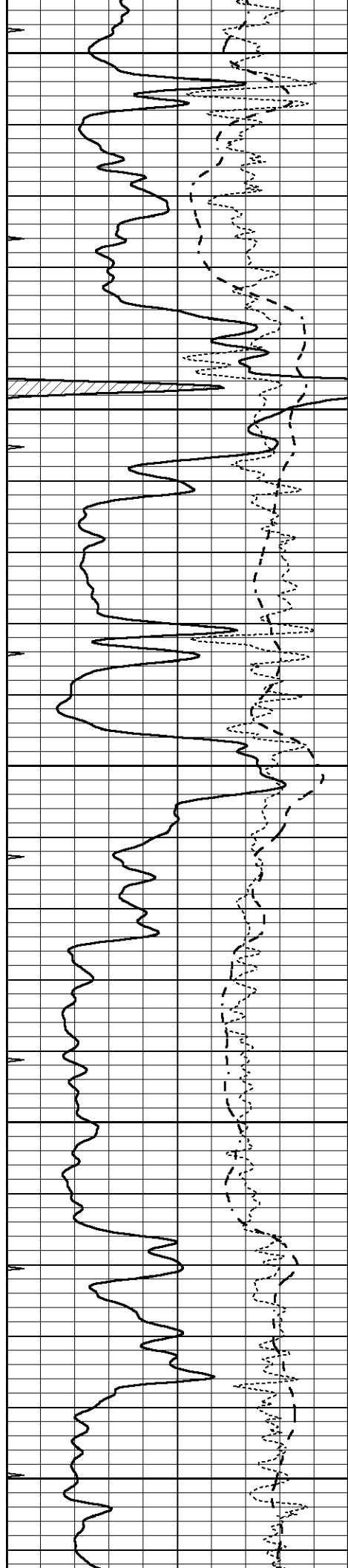
REPEAT SECTION

Database File 5665pe.db
 Dataset Pathname pass2.1R
 Presentation Format _dil
 Dataset Creation Thu Oct 07 03:46:20 2021
 Charted by Depth in Feet scaled 1:240



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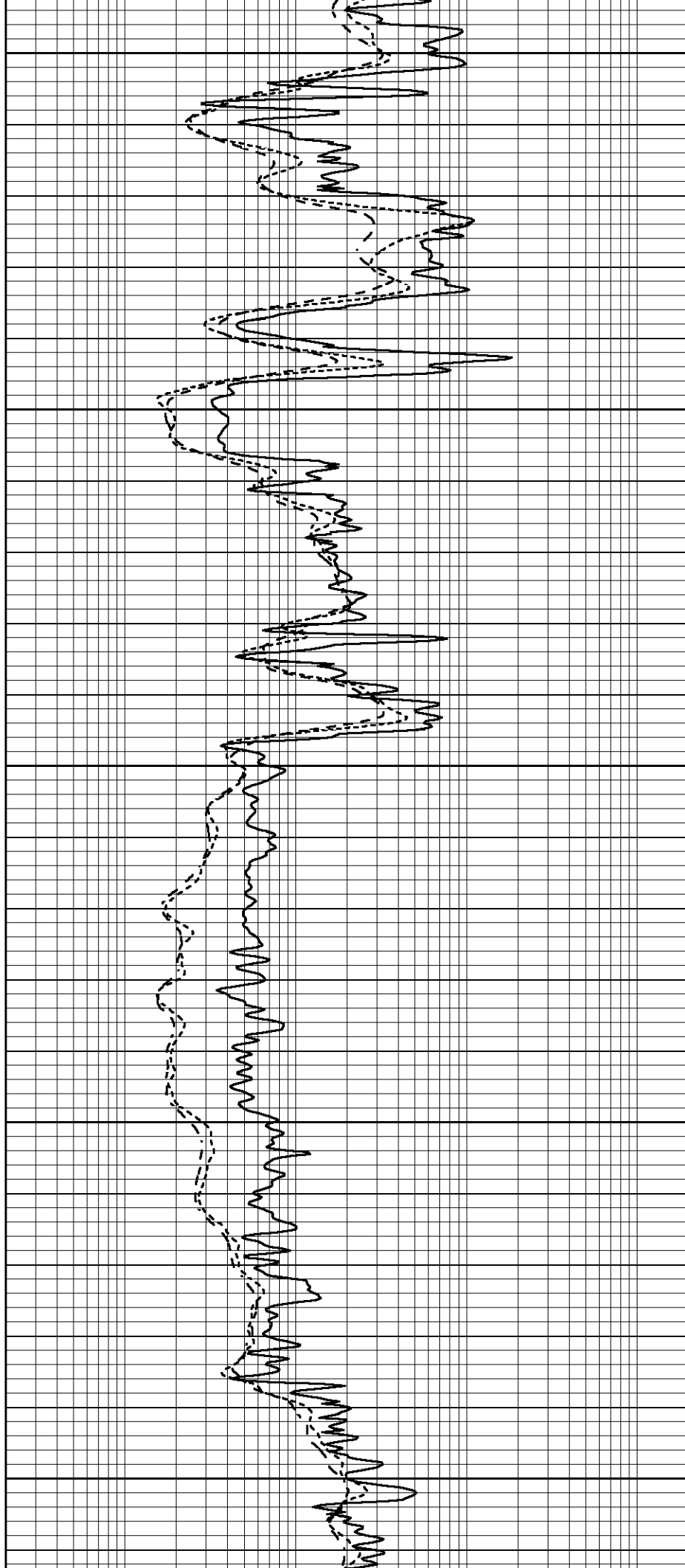
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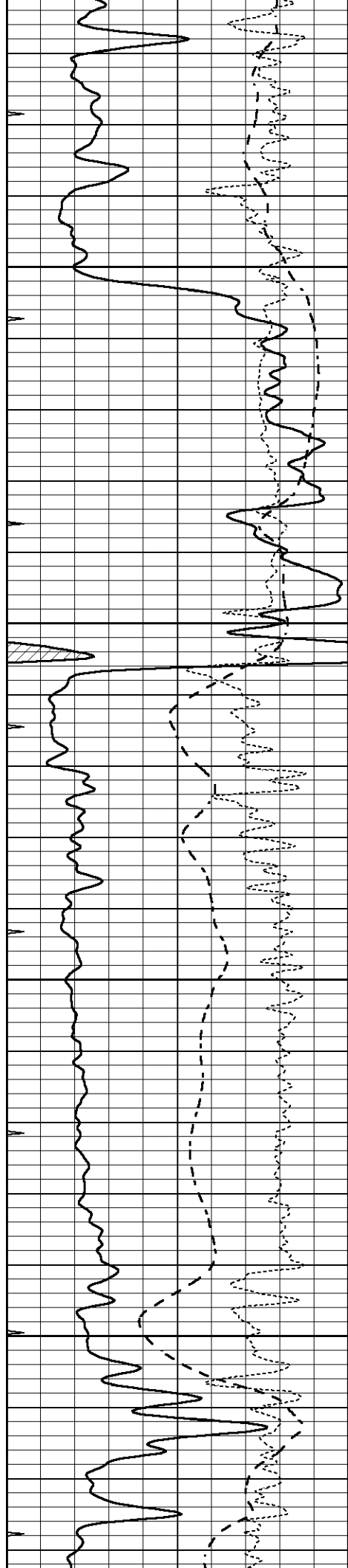
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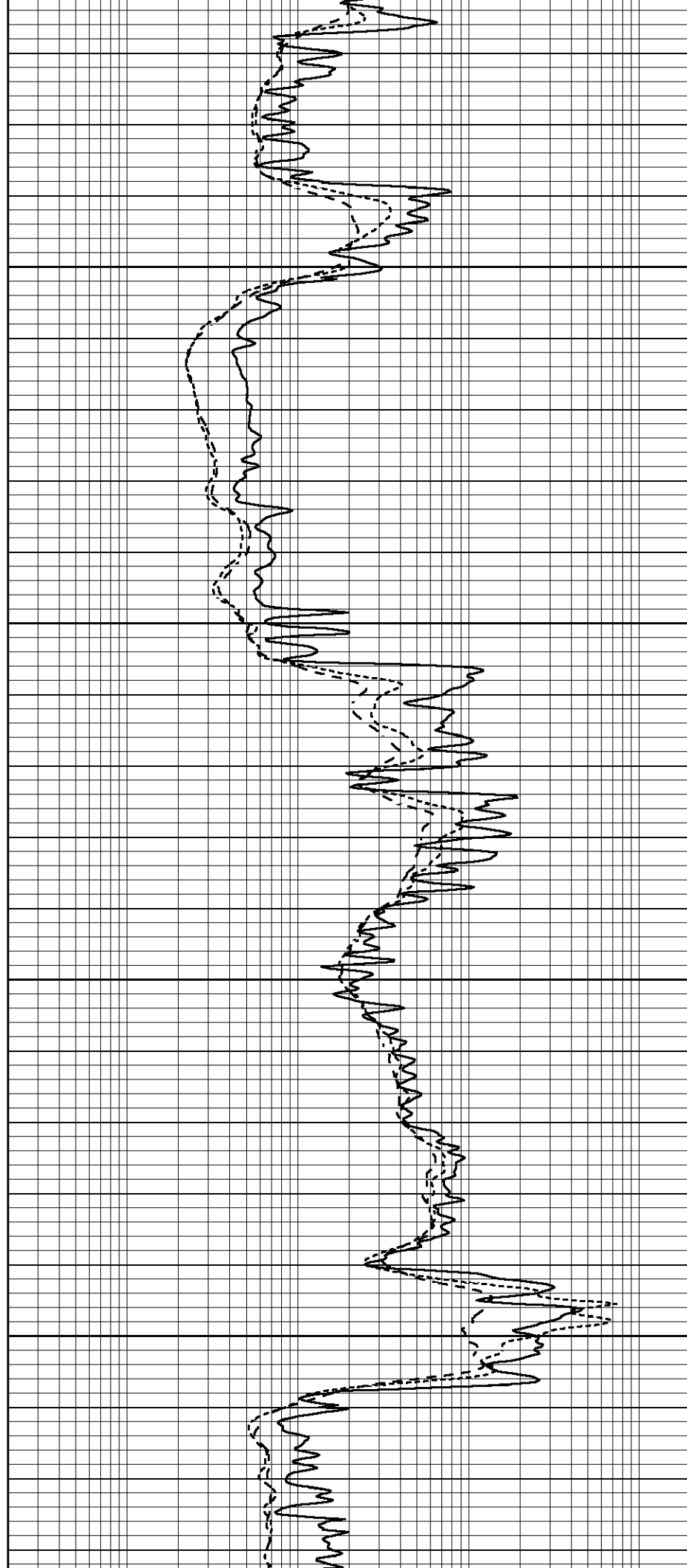


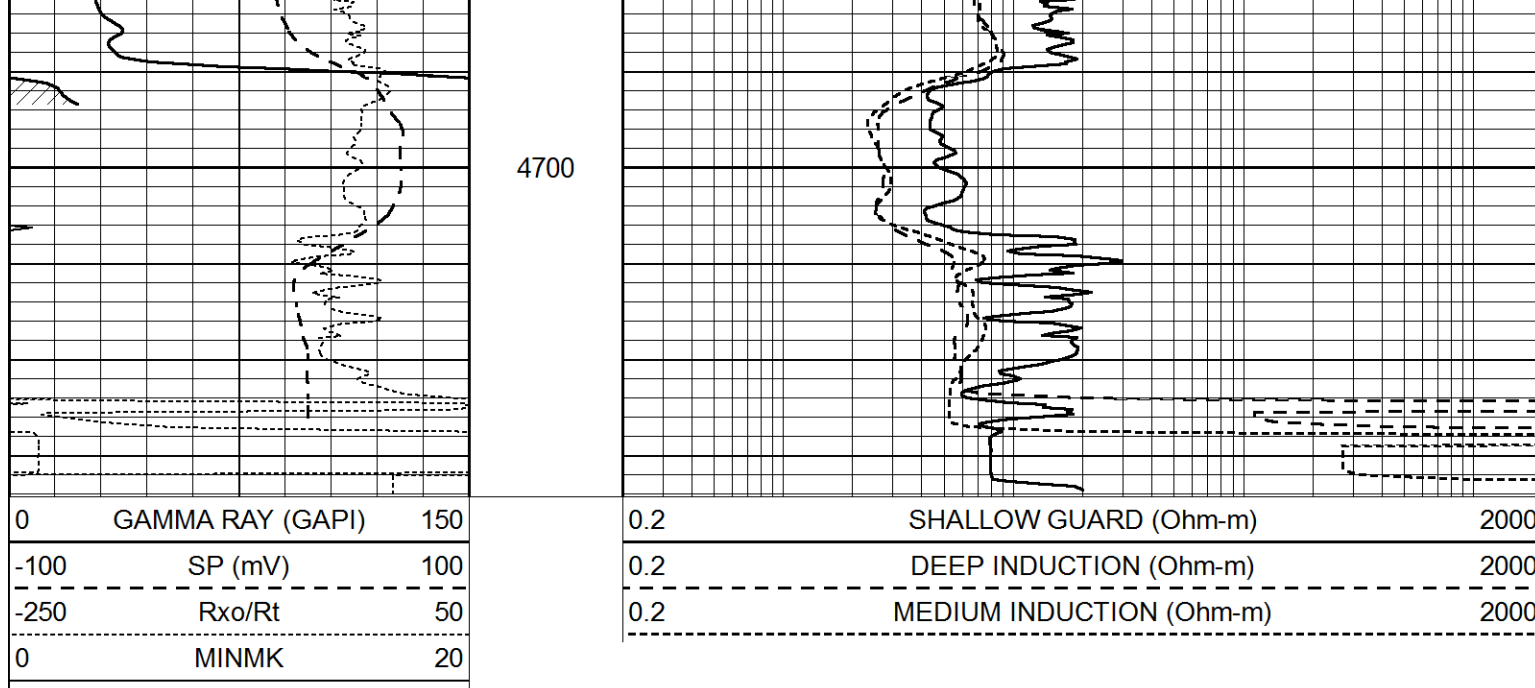
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4550

4600

4650





Calibration Report									
Database File	5665pe.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Thu Oct 07 04:29:49 2021								
Dual Induction Calibration Report									
Serial-Model:				PROBE9-DILG					
Surface Cal Performed:				Wed Sep 22 10:35:13 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	-22.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	720.000	-30.000	
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		Zero	Cal		m'	b'	
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 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		

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	