

DUAL INDUCTION LOG

Company	QUAIL OIL & GAS	Company	QUAIL OIL & GAS
Well	#1-31 KELLER	Well	#1-31 KELLER
Field	WILDCAT	Field	WILDCAT
County	BARBER	County	BARBER
State	KANSAS	State	KANSAS
Location:	API # : 15-007-24441-0000 1845' FSL & 445' FWL	Other Services CDL/CNL/PE MEL/SON/FF	
Permanent Datum	GROUND LEVEL	Elevation	1829
Log Measured From	KELLY BUSHING 12' A.G.L.		
Drilling Measured From	KELLY BUSHING		
	SEC 31 TWP 30S RGE 12W		
Date	10/7/22		
Run Number	ONE		
Depth Driller	4844		
Depth Logger	4846		
Bottom Logged Interval	4844		
Top Log Interval	00		
Casing Driller	8 5/8"@311'		
Casing Logger	311		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,500 PPM	
Density / Viscosity	9.3/57		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.800@75F		
Rmf @ Meas. Temp	.600@75F		
Rmc @ Meas. Temp	.960@75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.484@124F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	1:15 P.M.		
Maximum Recorded Temperature	124F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	DAVE BARKER		

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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.

15-007-24441-0000

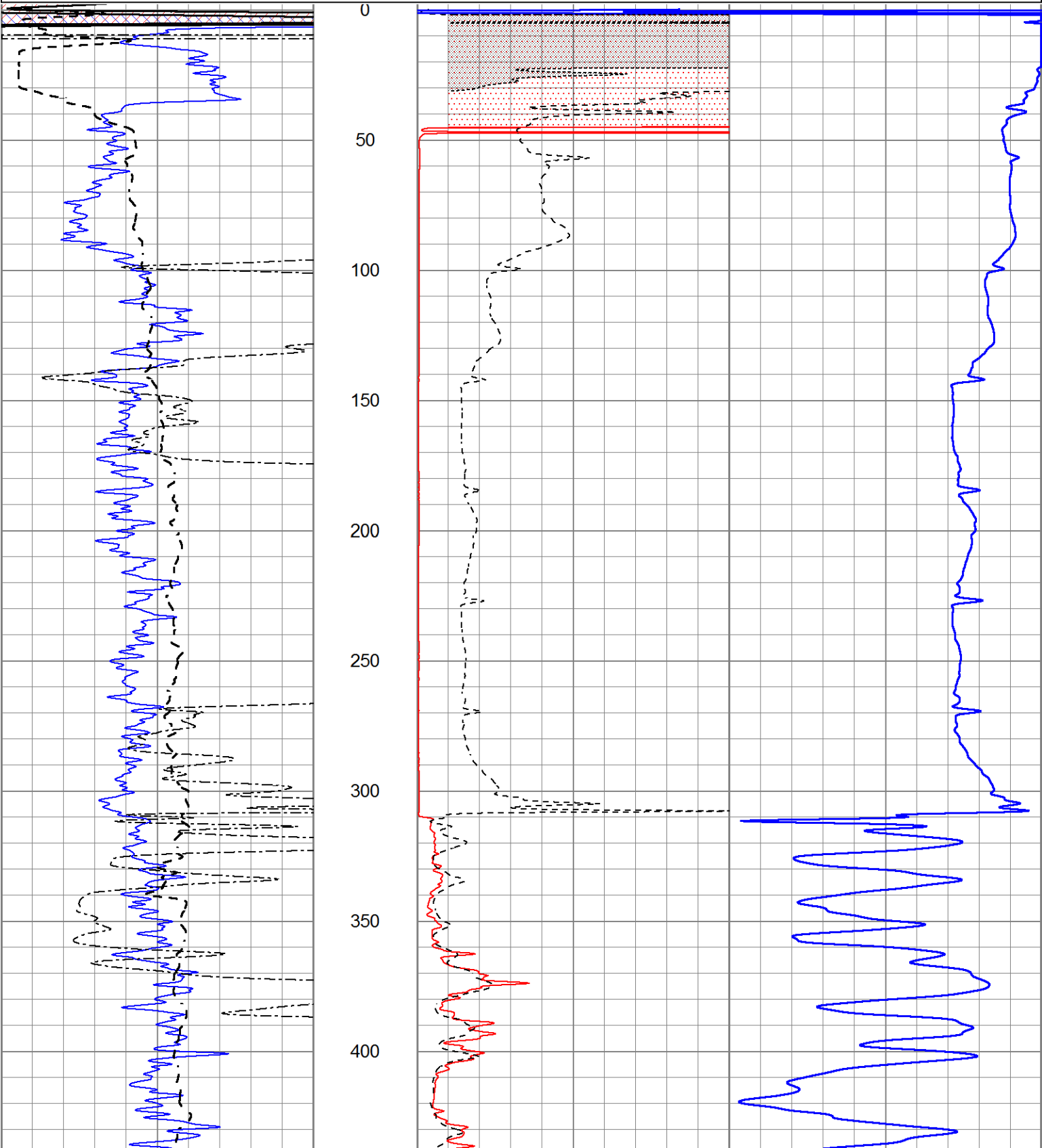
Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SAWYER, KS., 5S. ON HWY 281 TO "ELM MILLS RD.", 1W. TO "MINGONA RD.", 2S., 1E. ALONG
FENCELINE, VEER SOUTH AND TAKE RIGHT FORK

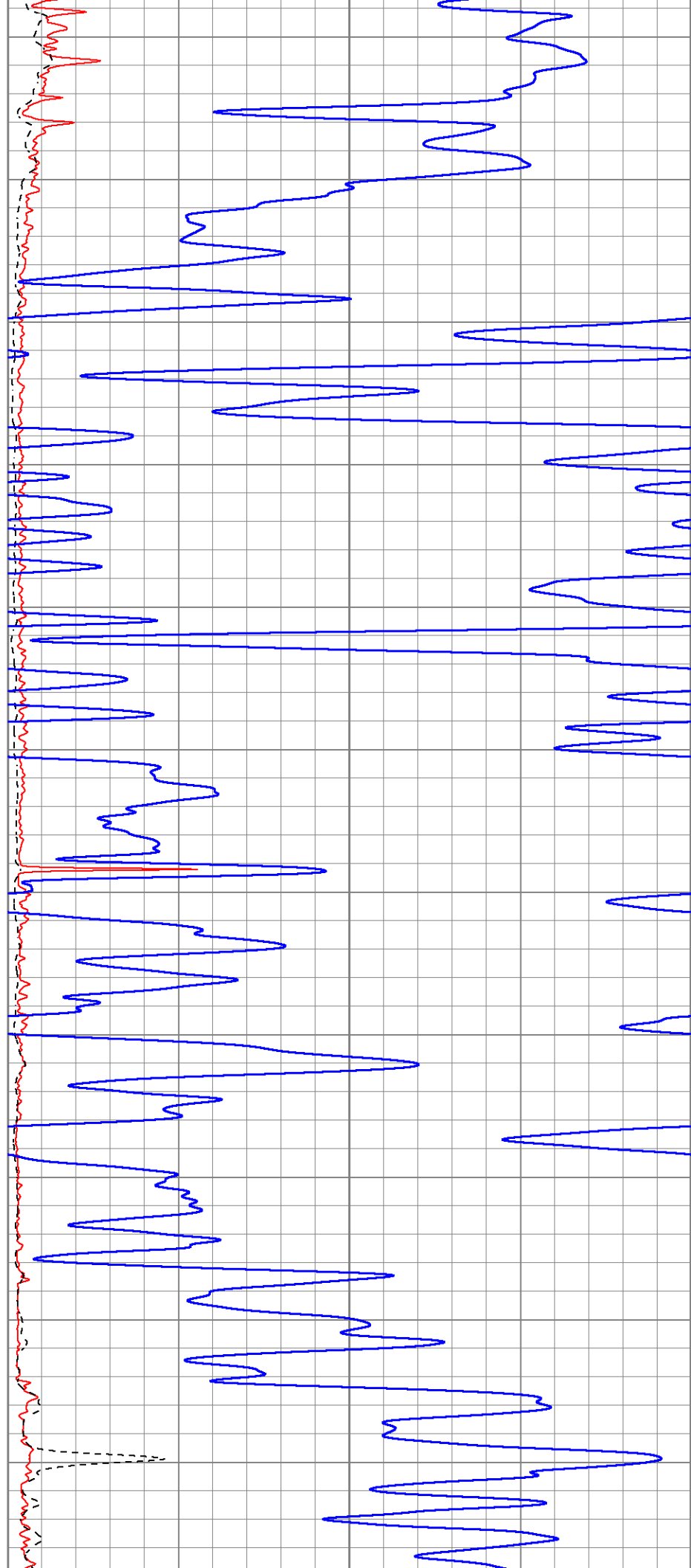
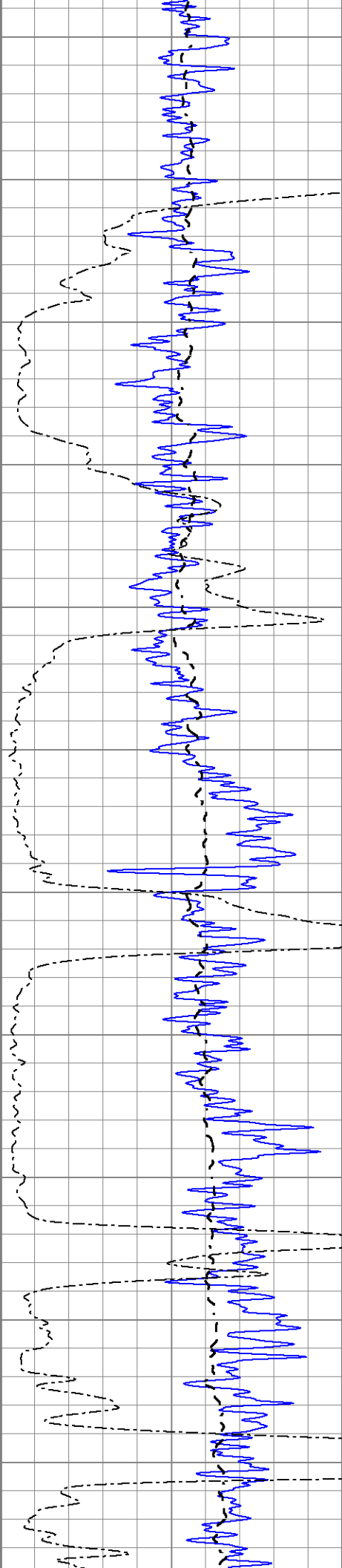


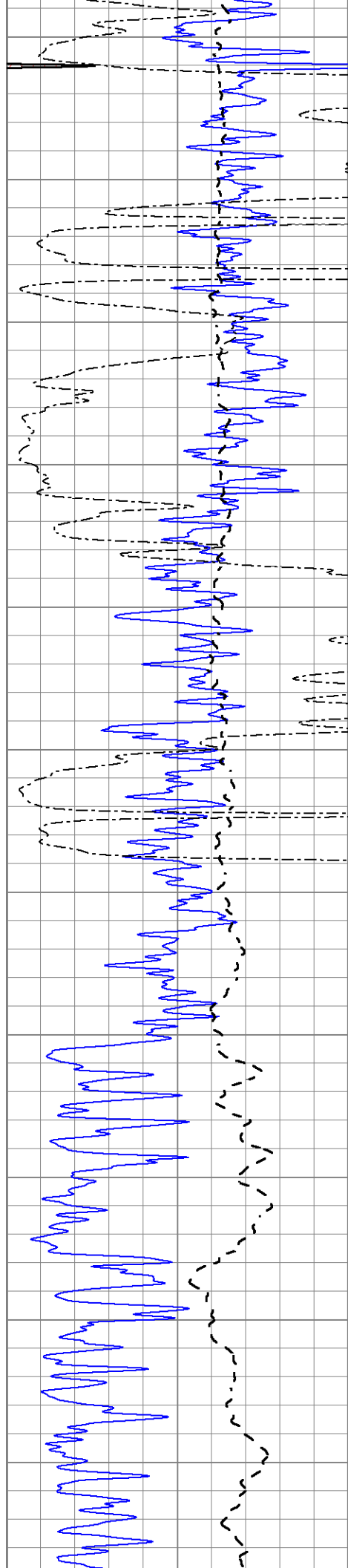
MAIN SECTION

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
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850
900
950





1000

1050

1100

1150

1200

1250

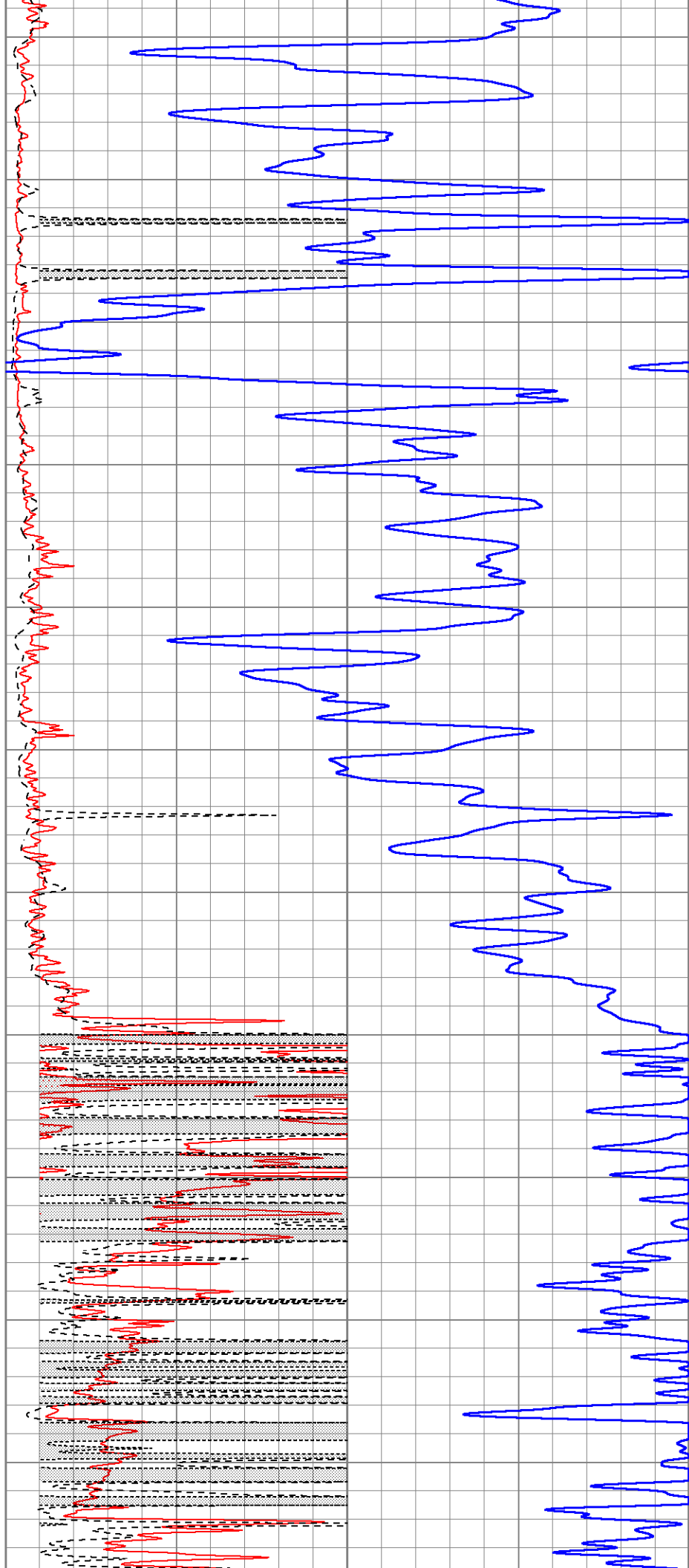
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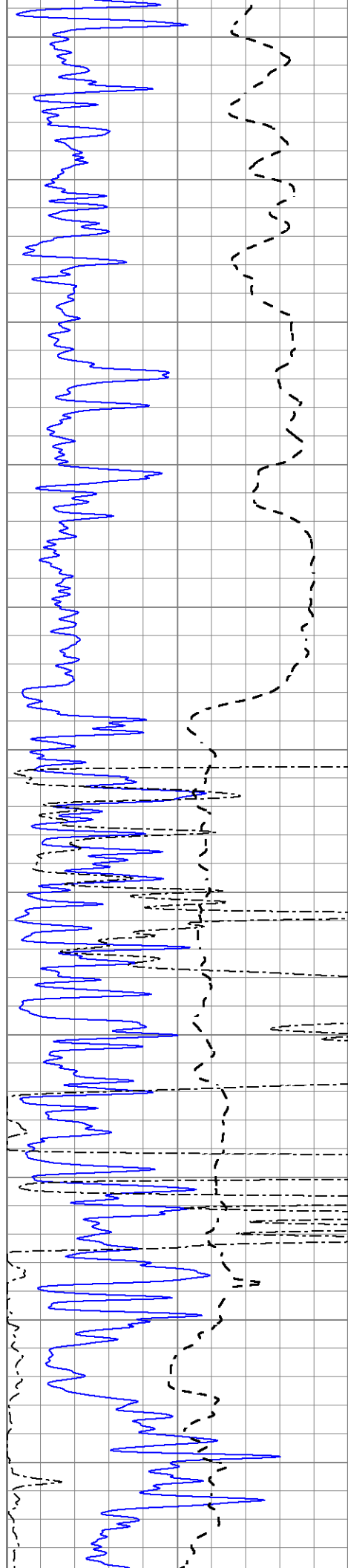
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1500





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1600

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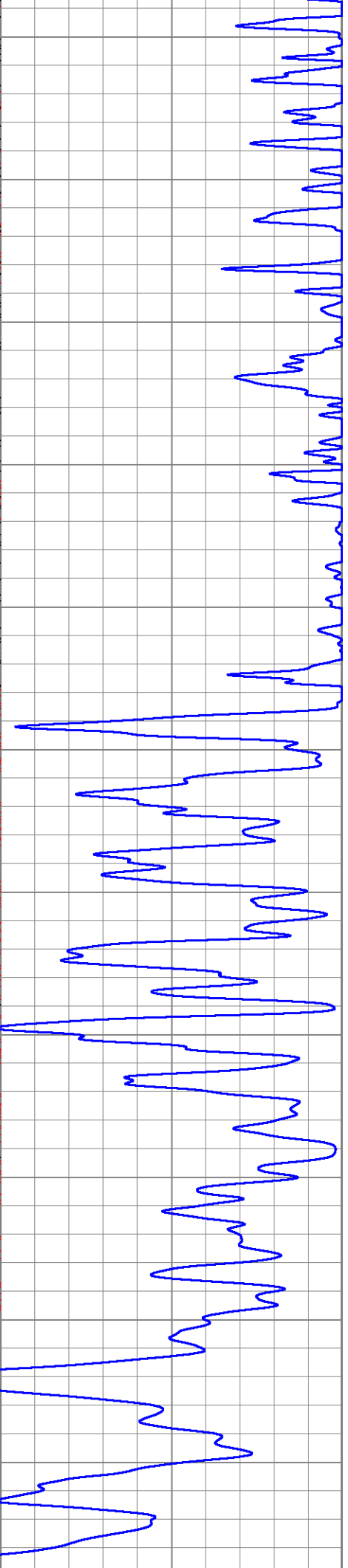
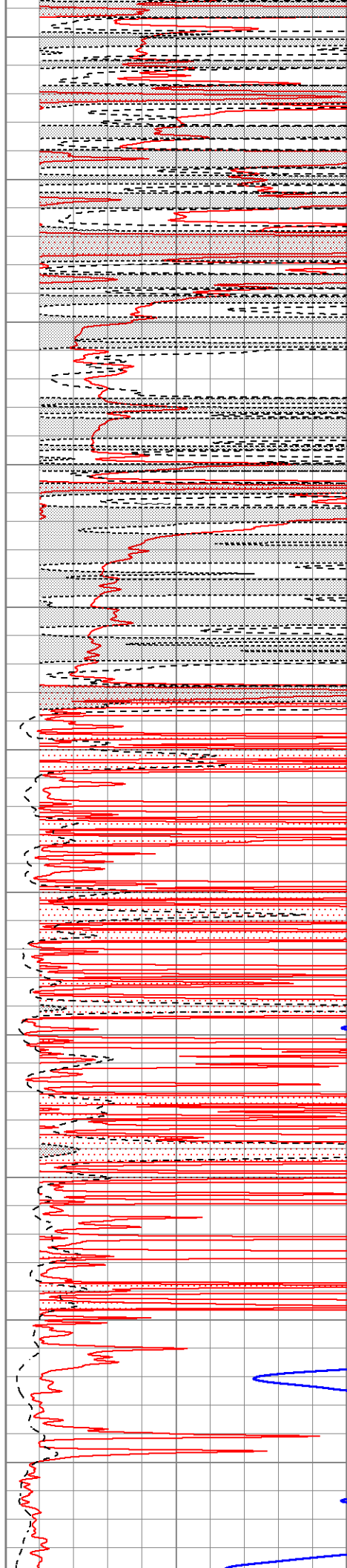
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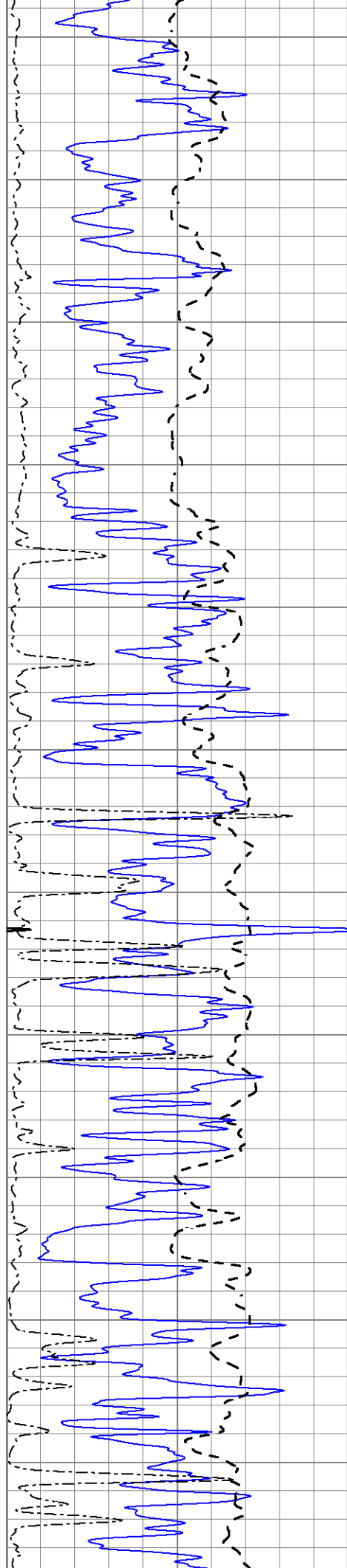
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2100

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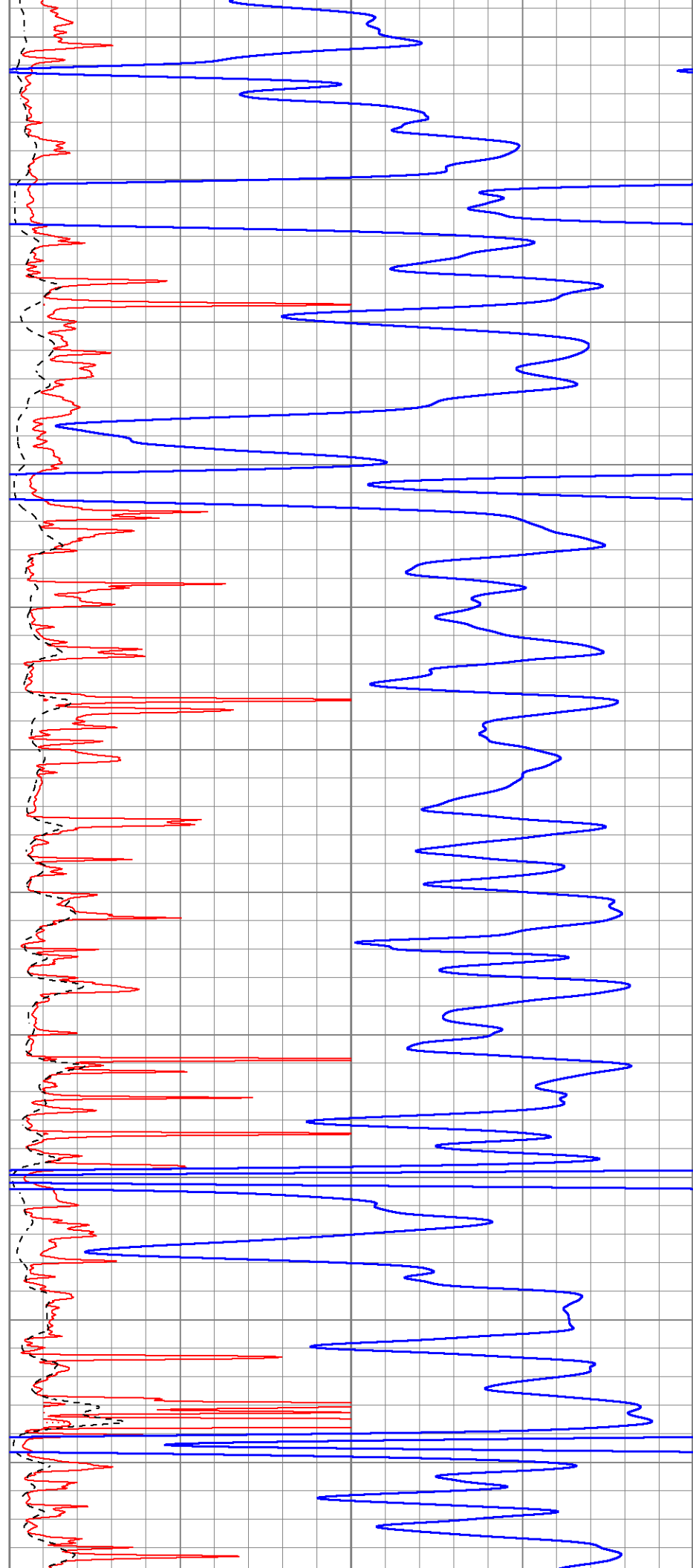
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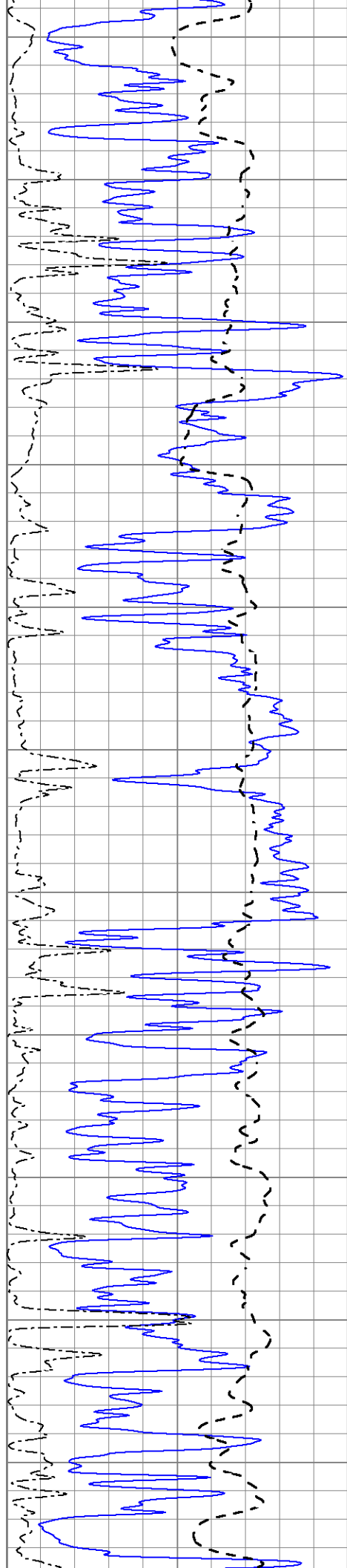
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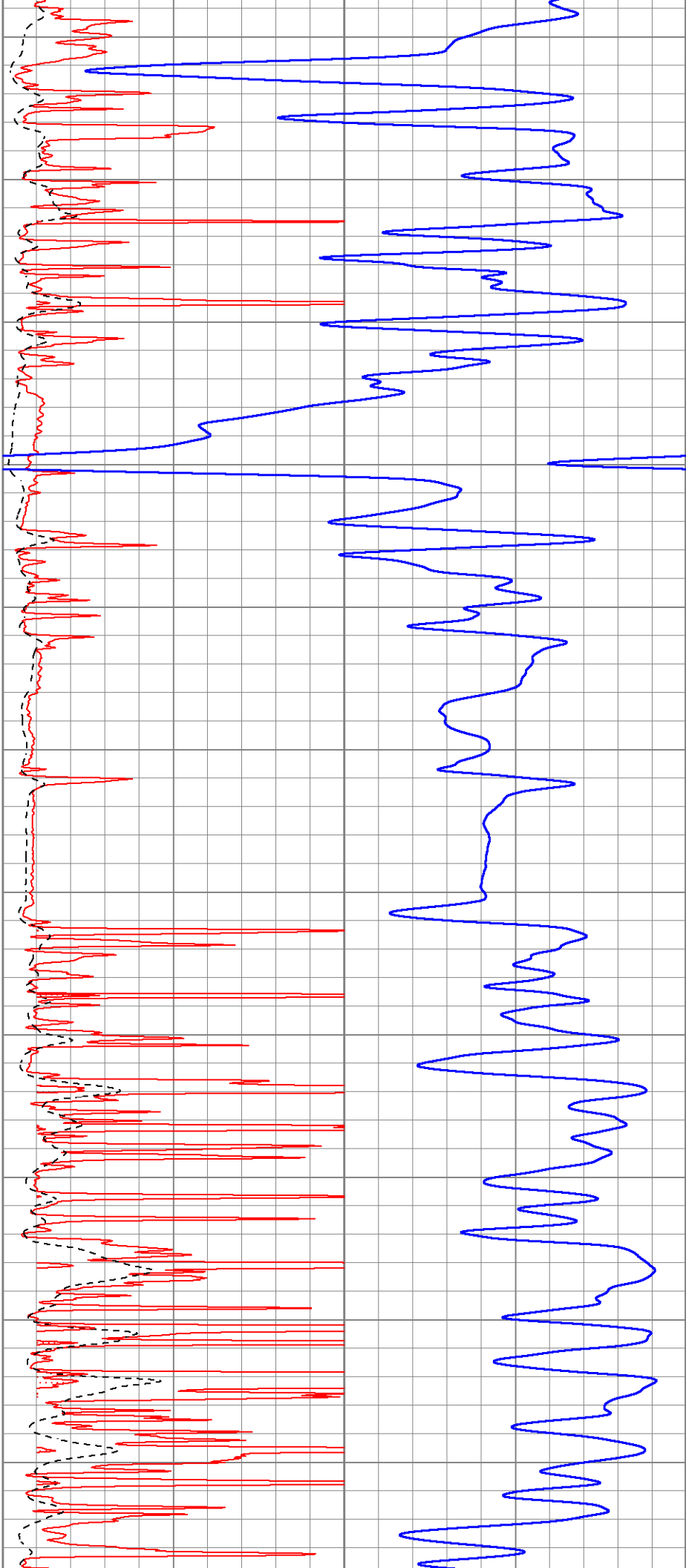
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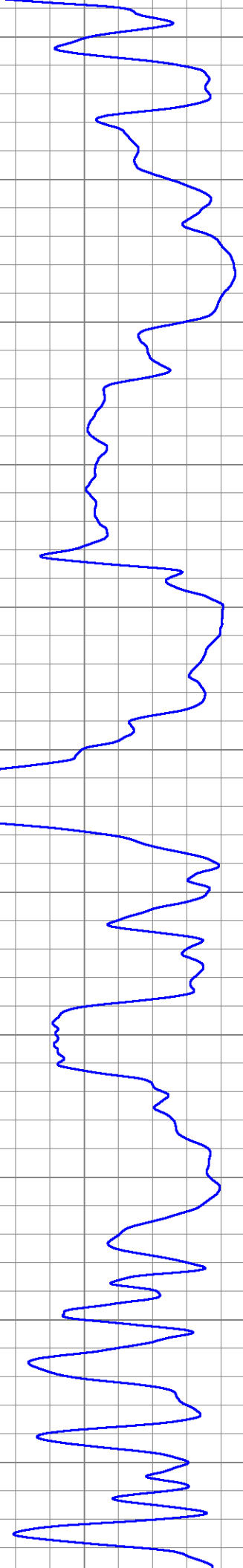
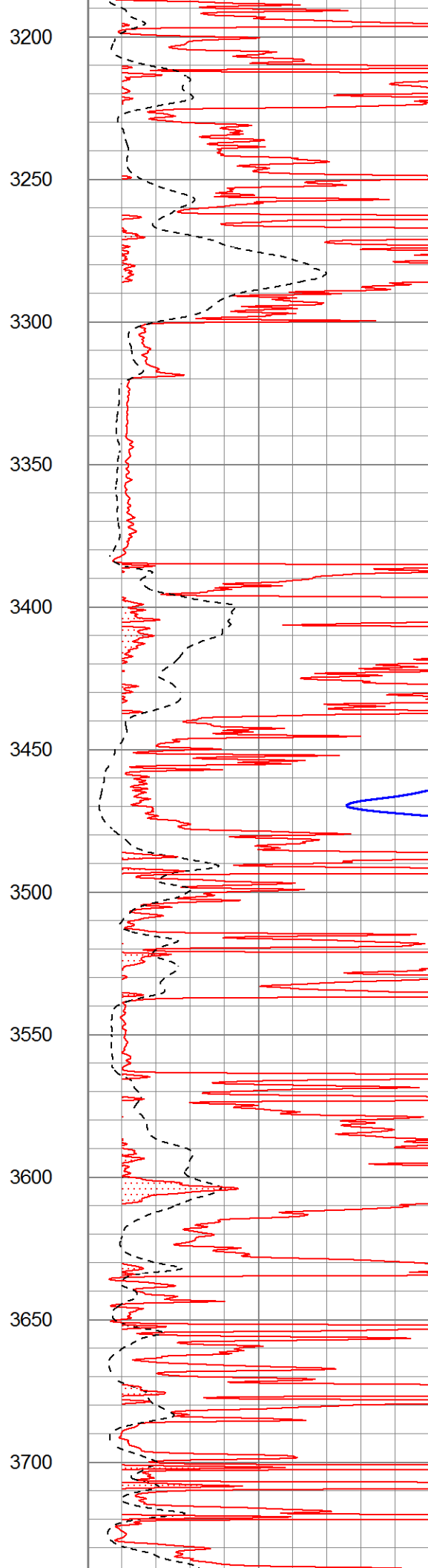
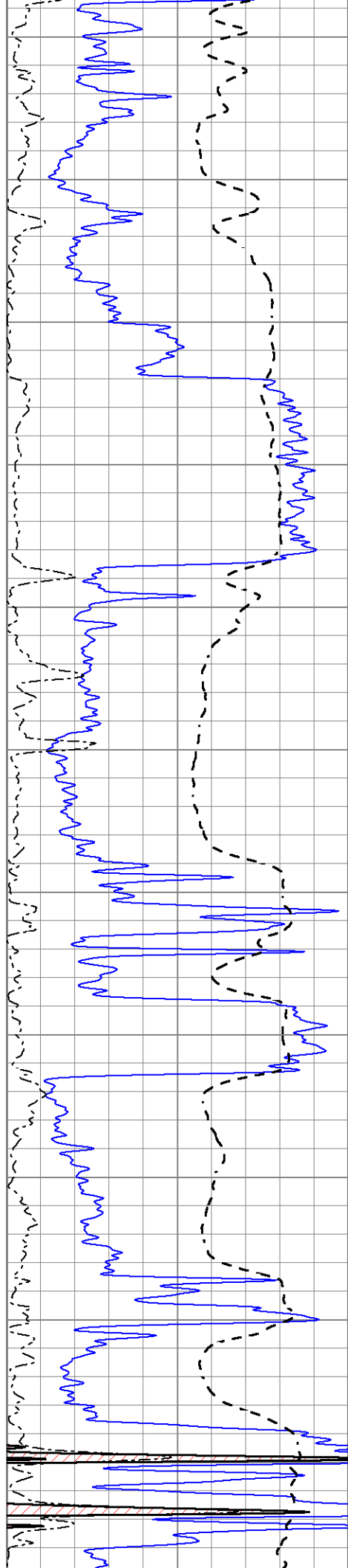
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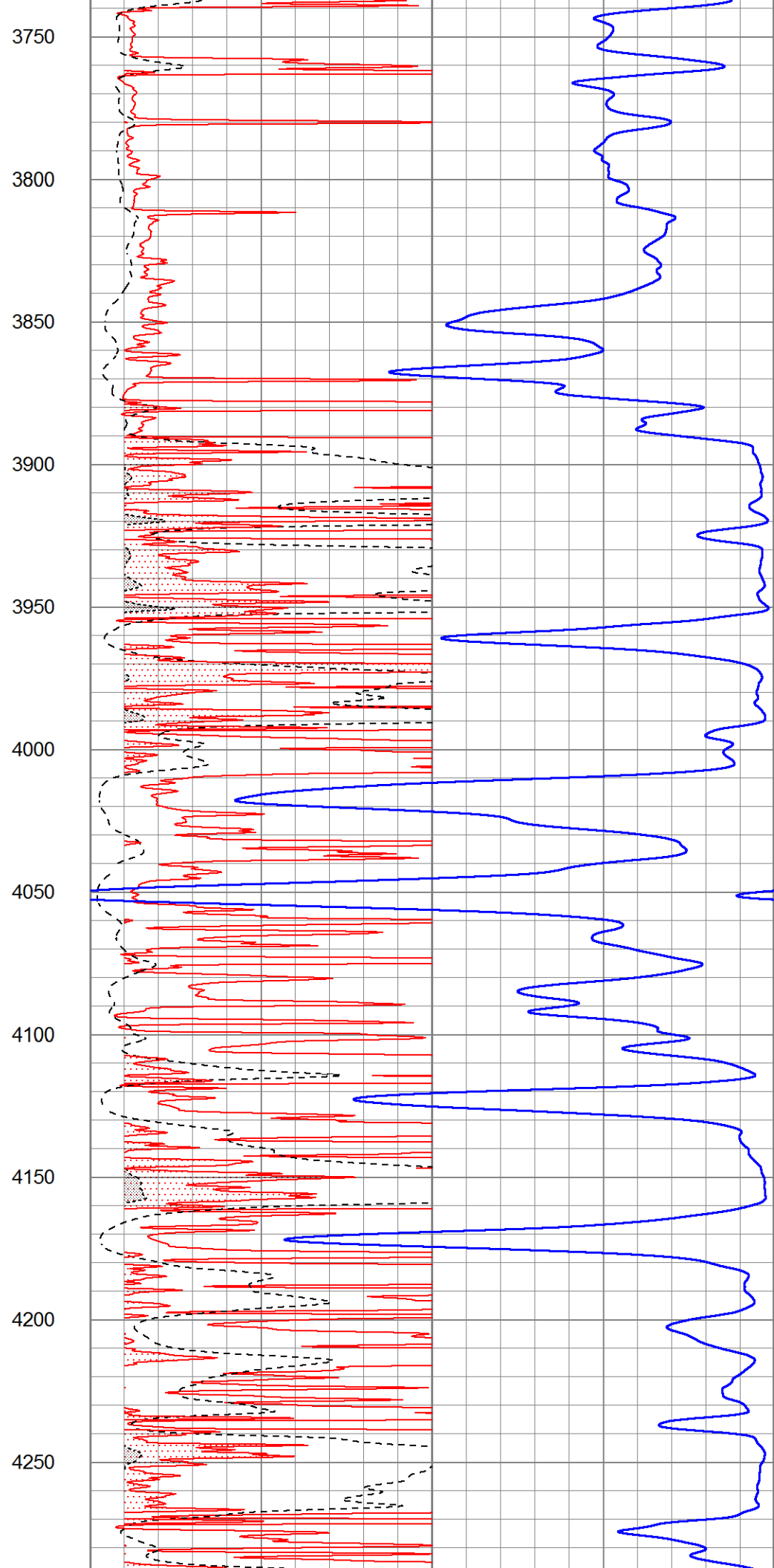
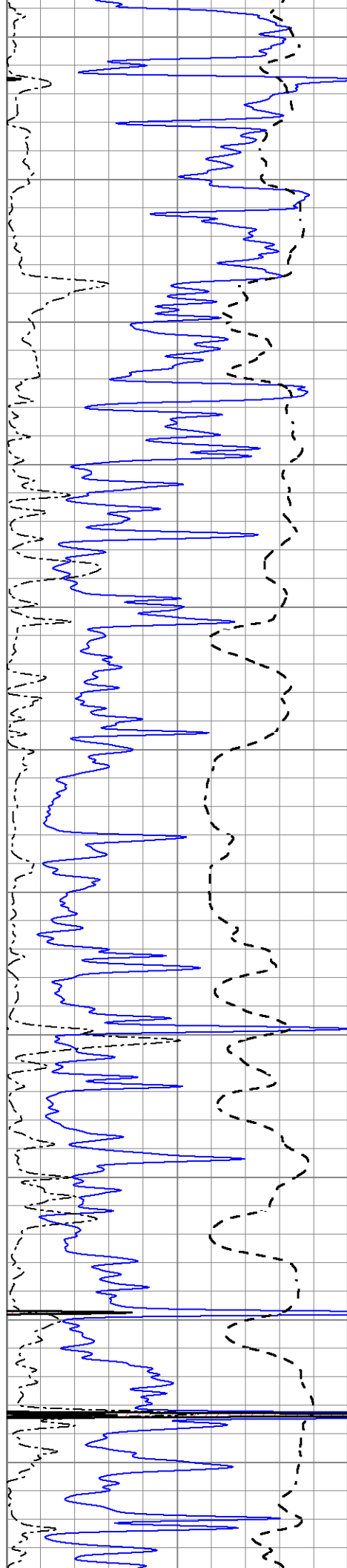
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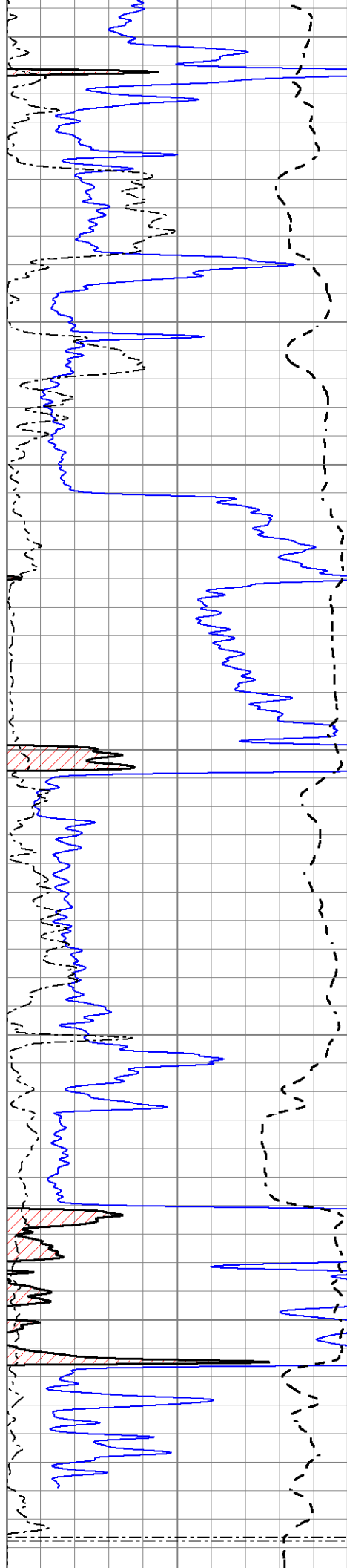
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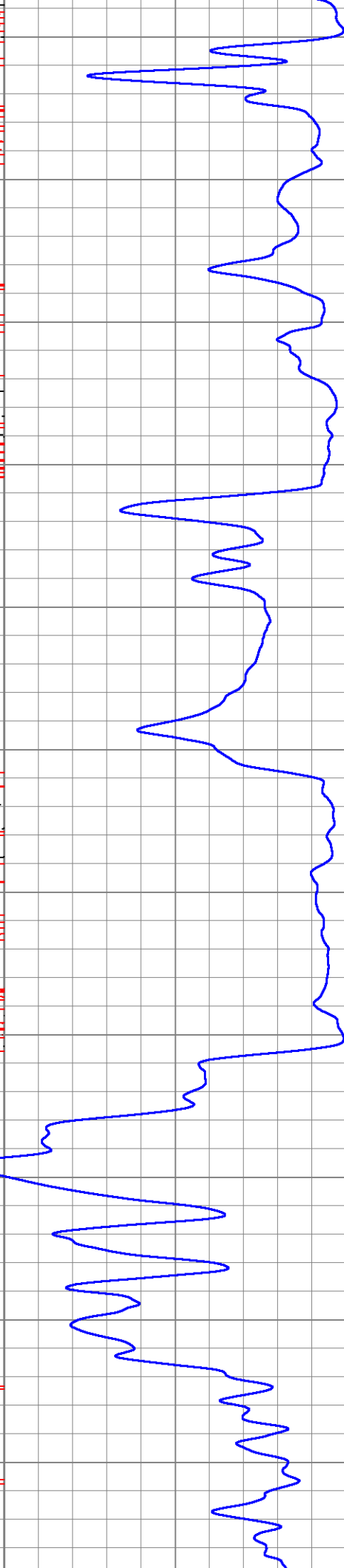
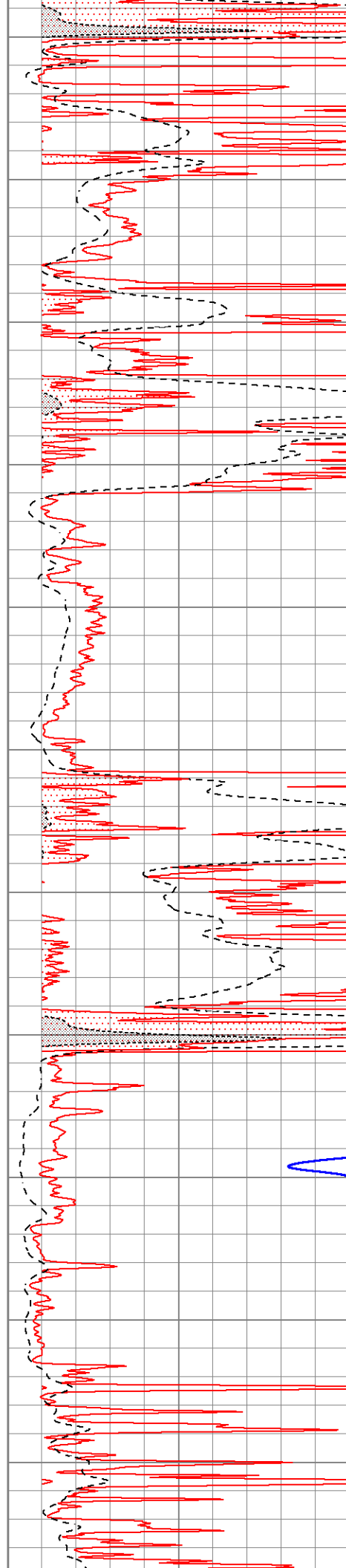
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4800



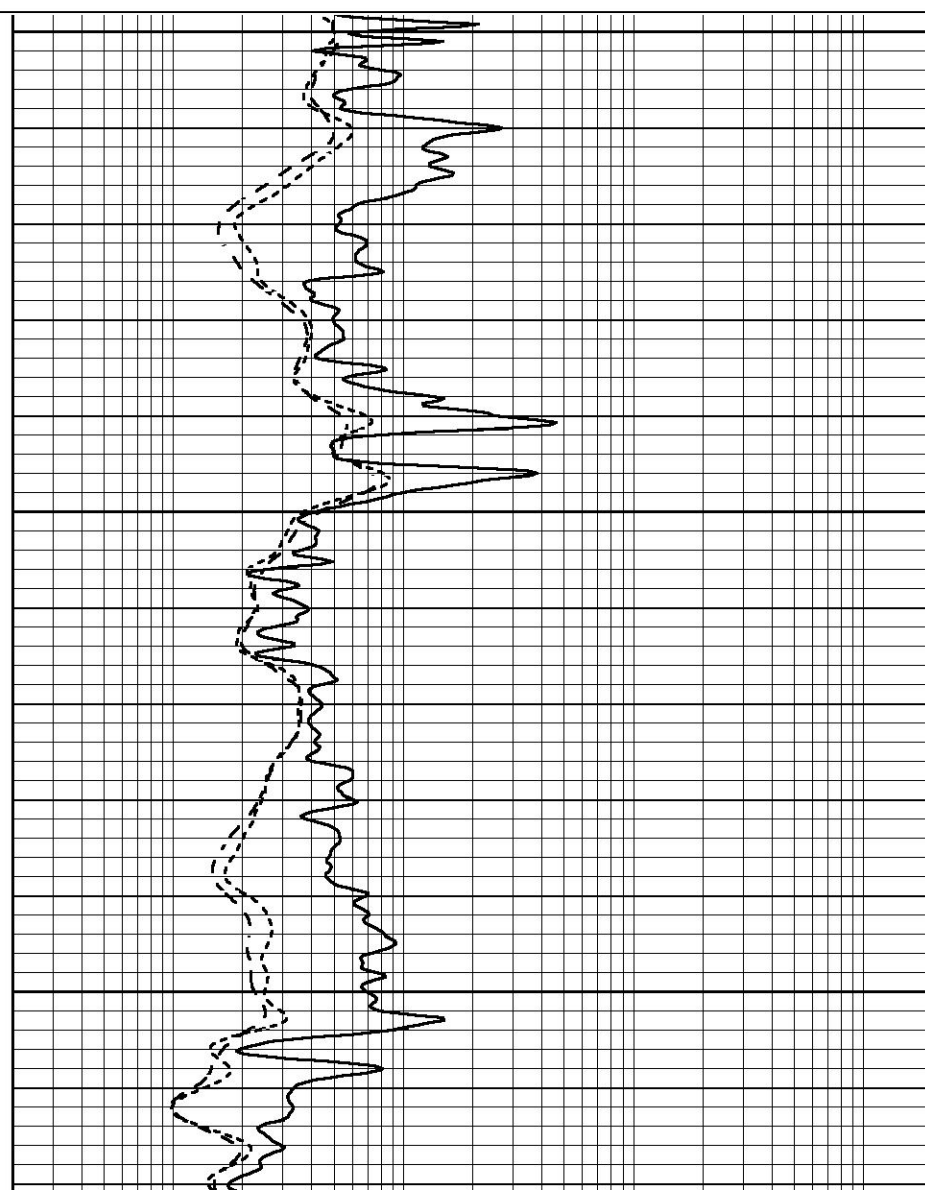
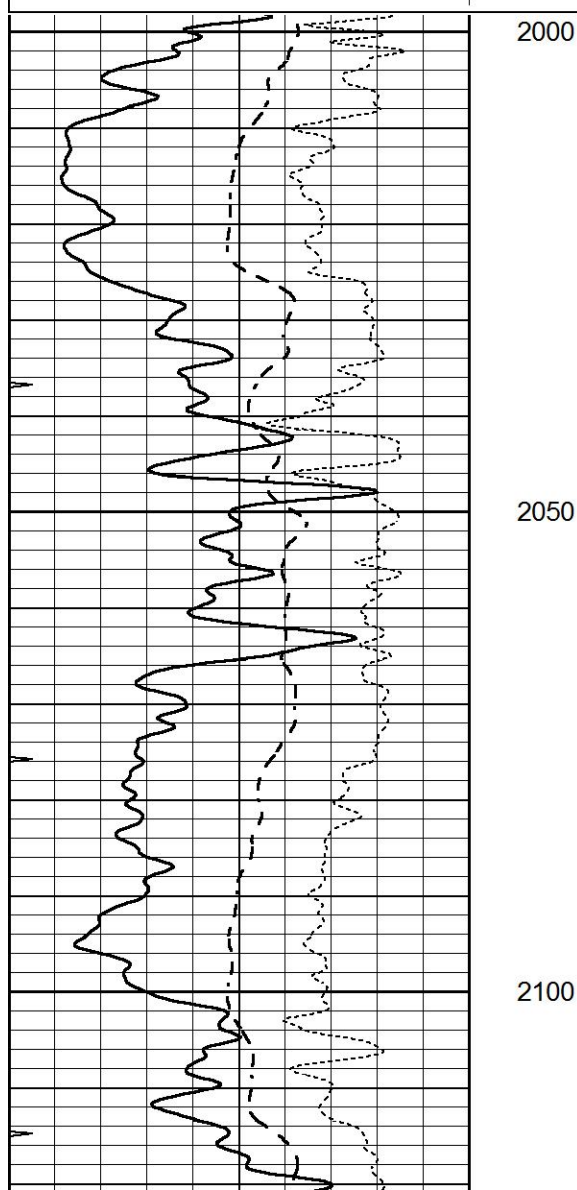
			4850			
0	Gamma Ray (GAPI)	150		1000	CILD (mmho/m)	0
-100	SP (mV)	100		0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1		0	RILD (Ohm-m)	50
				50	RILD X10 (Ohm-m)	500
				50	RLL3 X10 (Ohm-m)	500

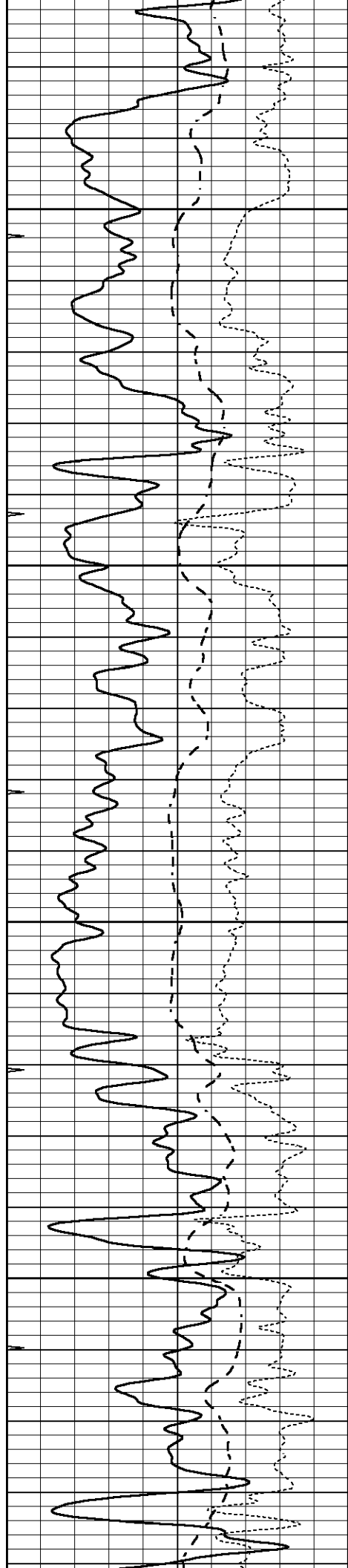


MAIN SECTION

Database File 7089pe.db
 Dataset Pathname pass3.2M
 Presentation Format _dil
 Dataset Creation Fri Oct 07 16:06:32 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	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



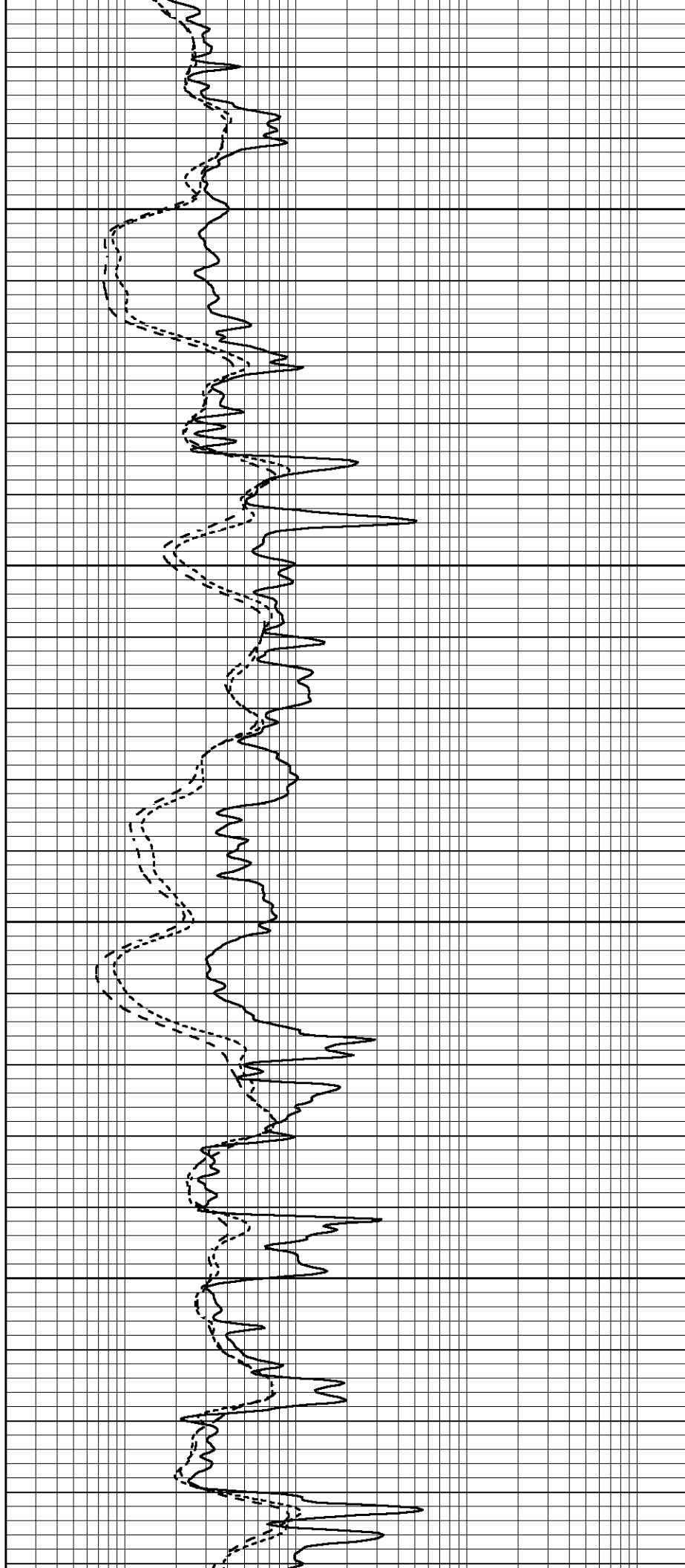


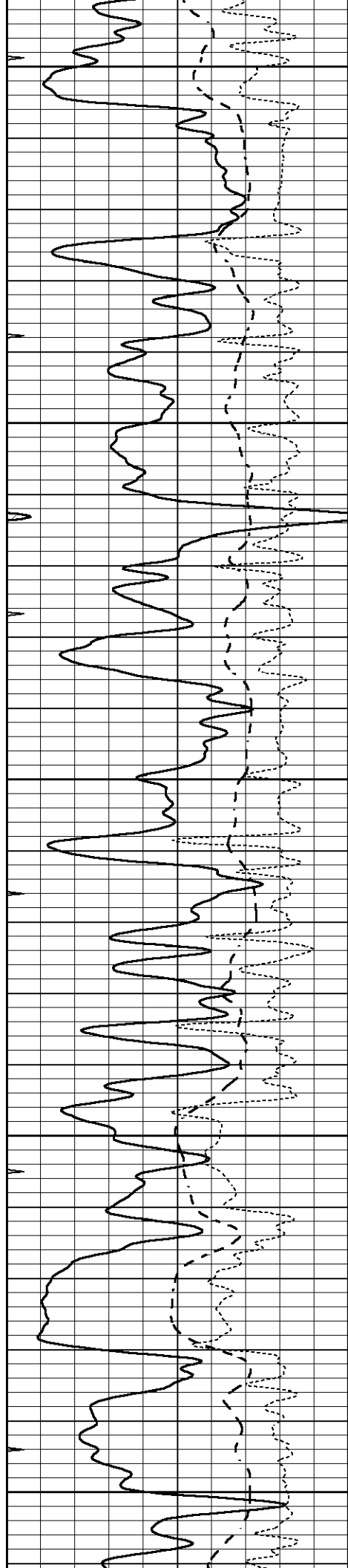
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2200

2250

2300





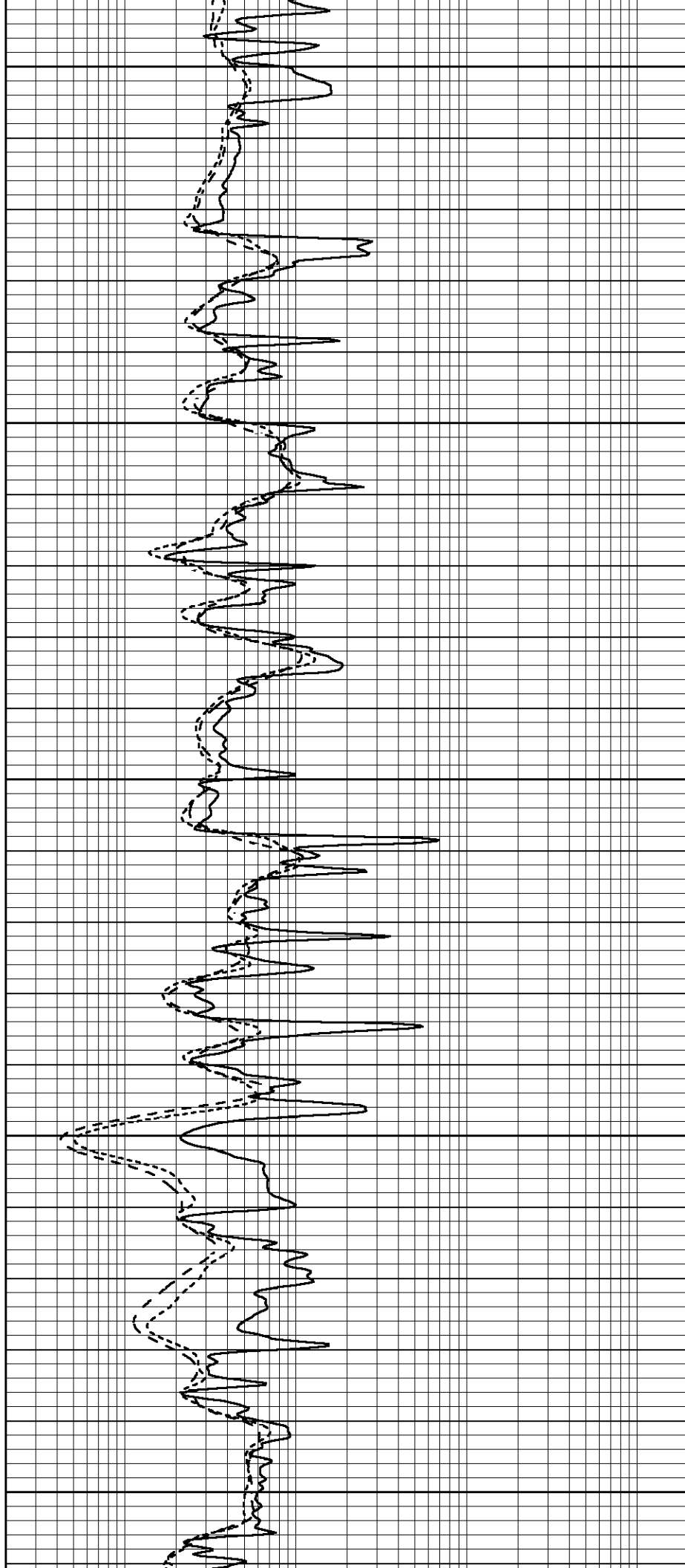
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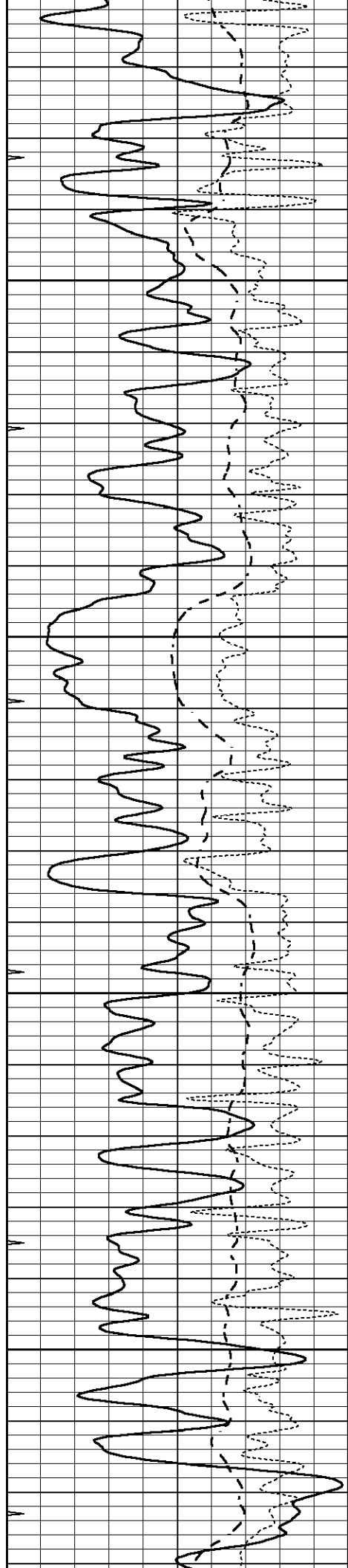
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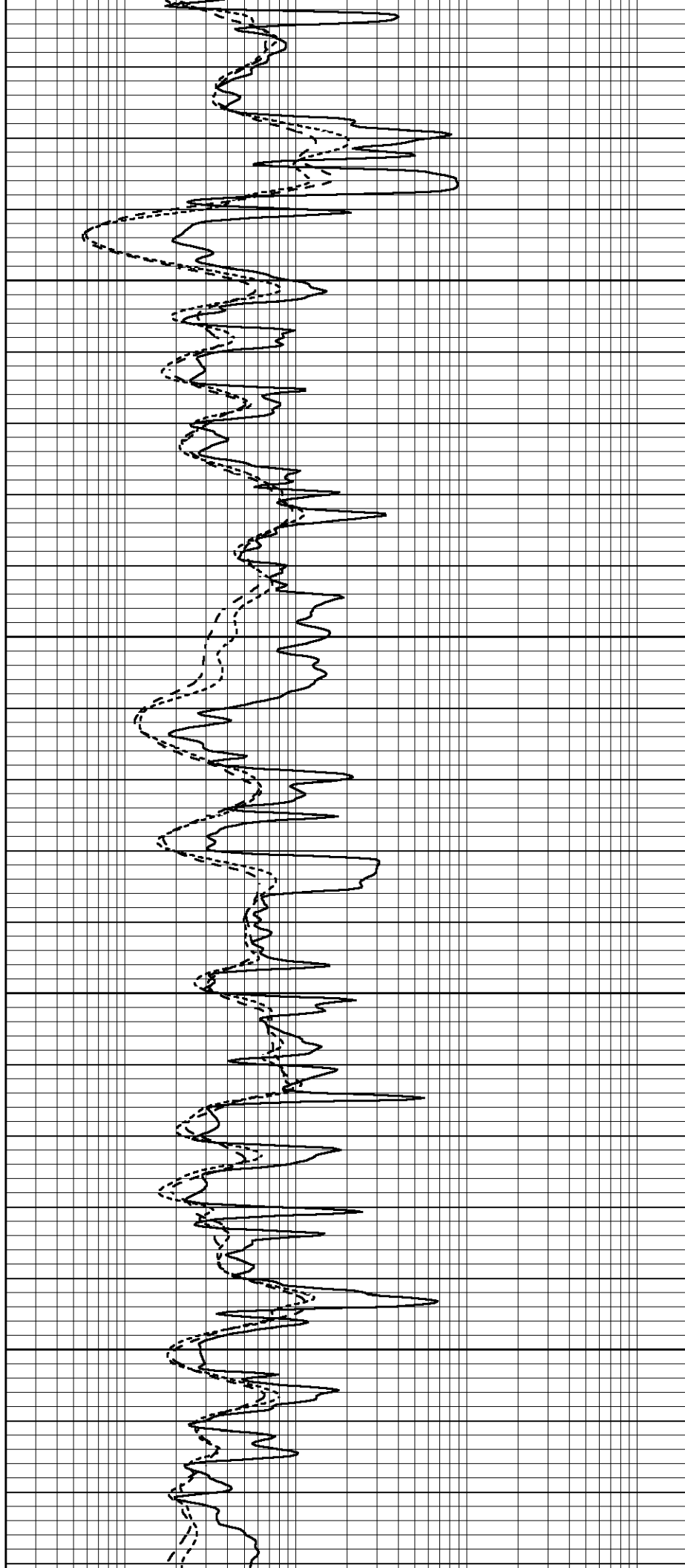


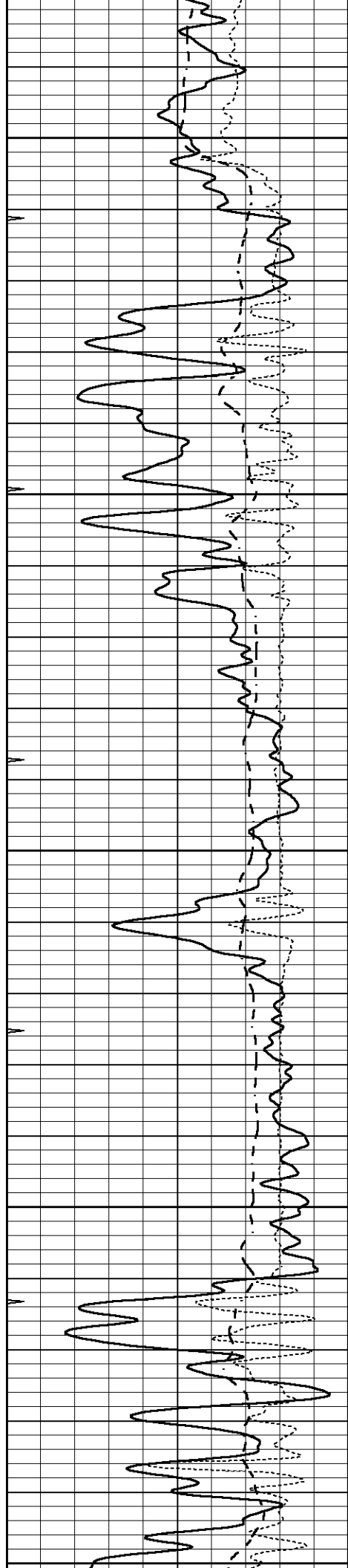
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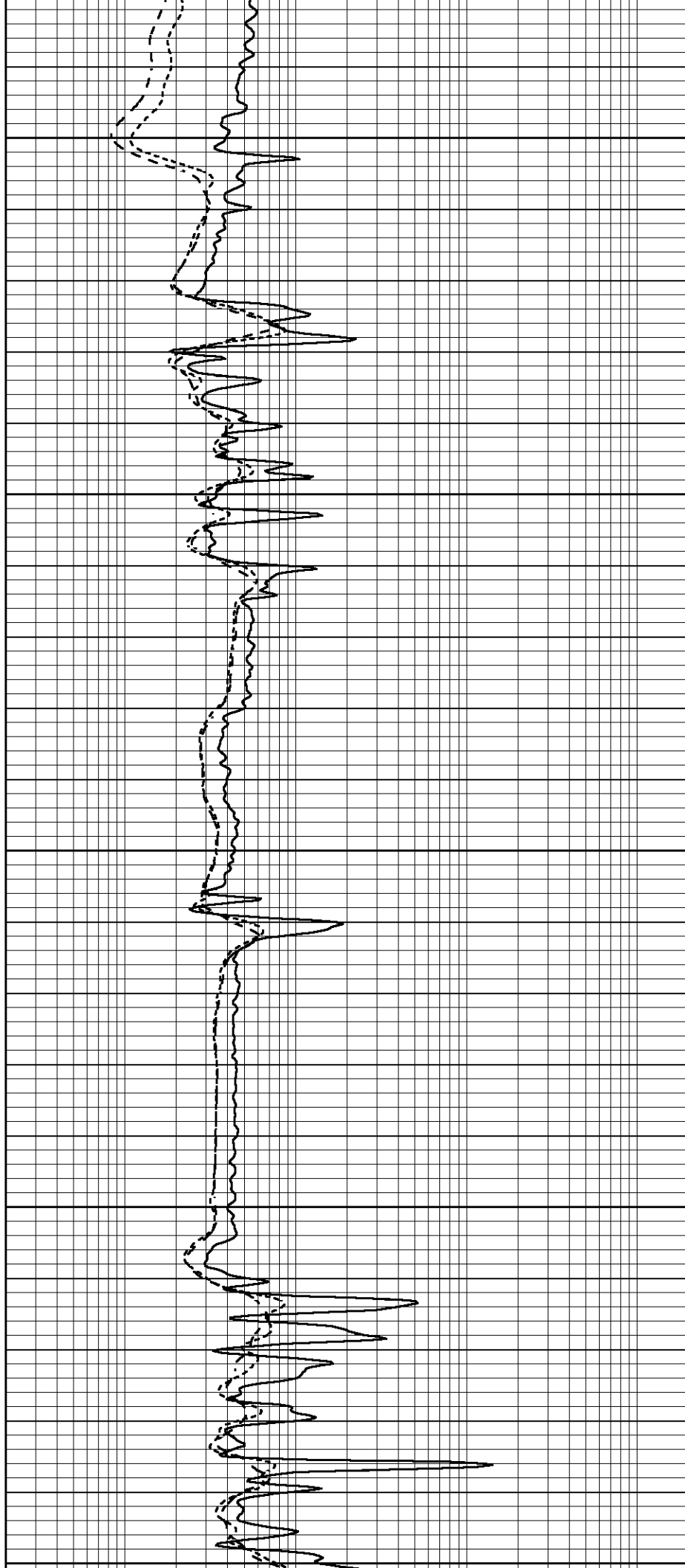
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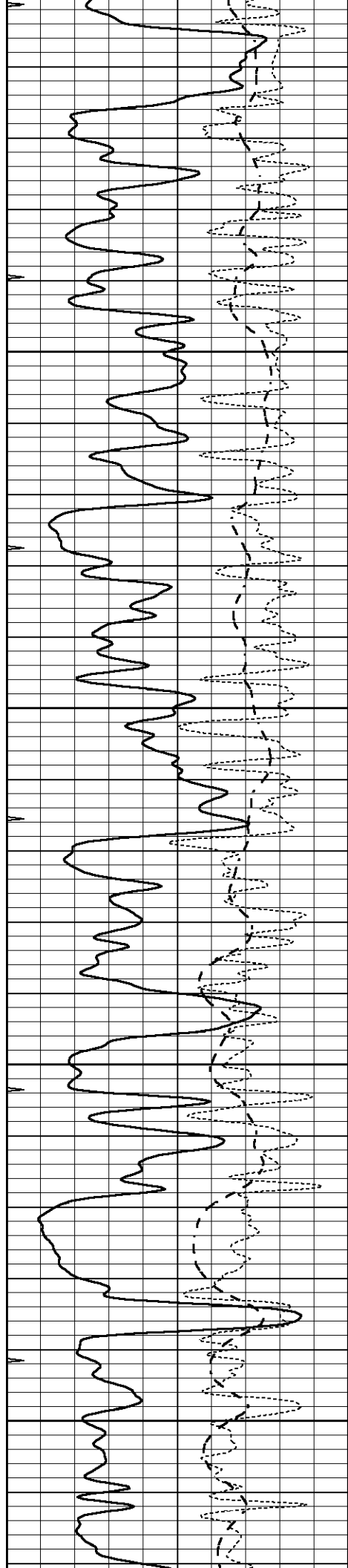
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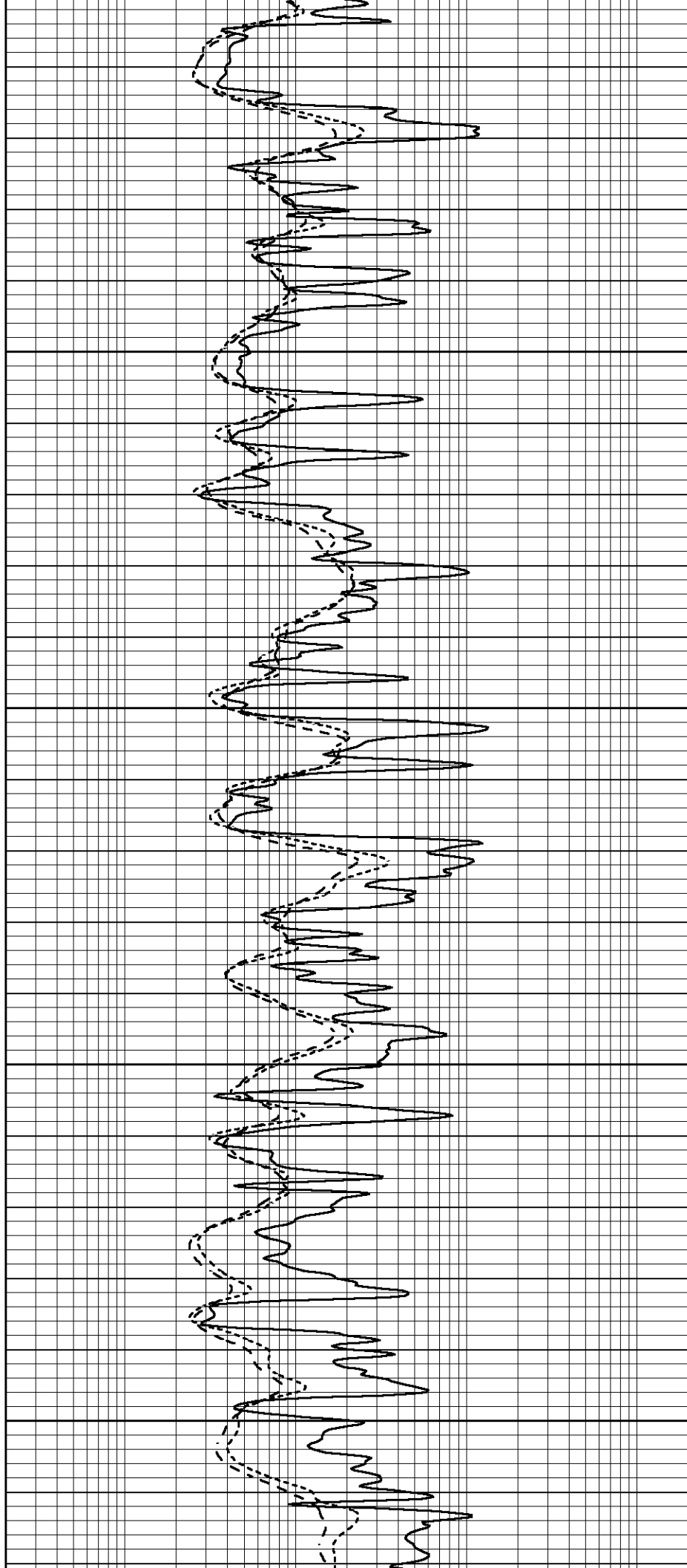


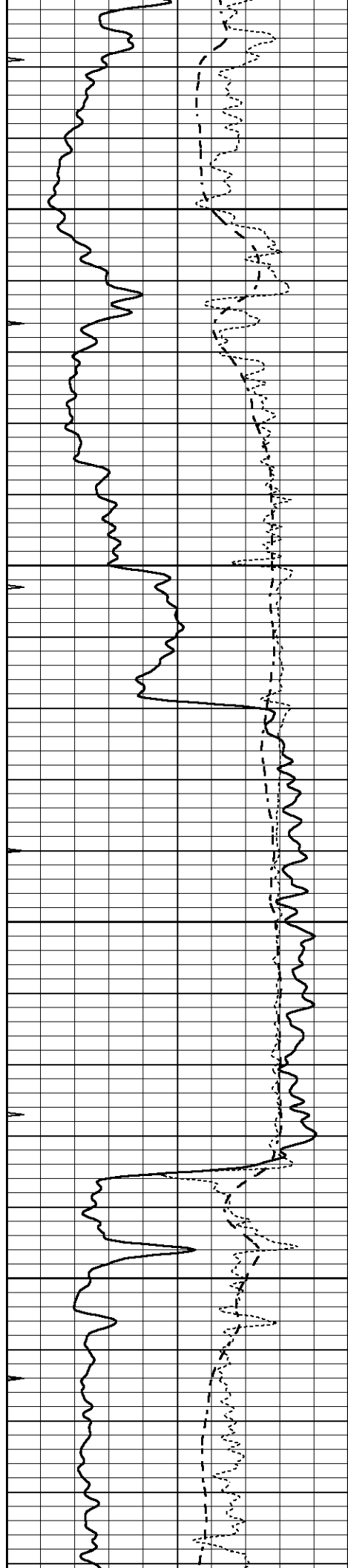
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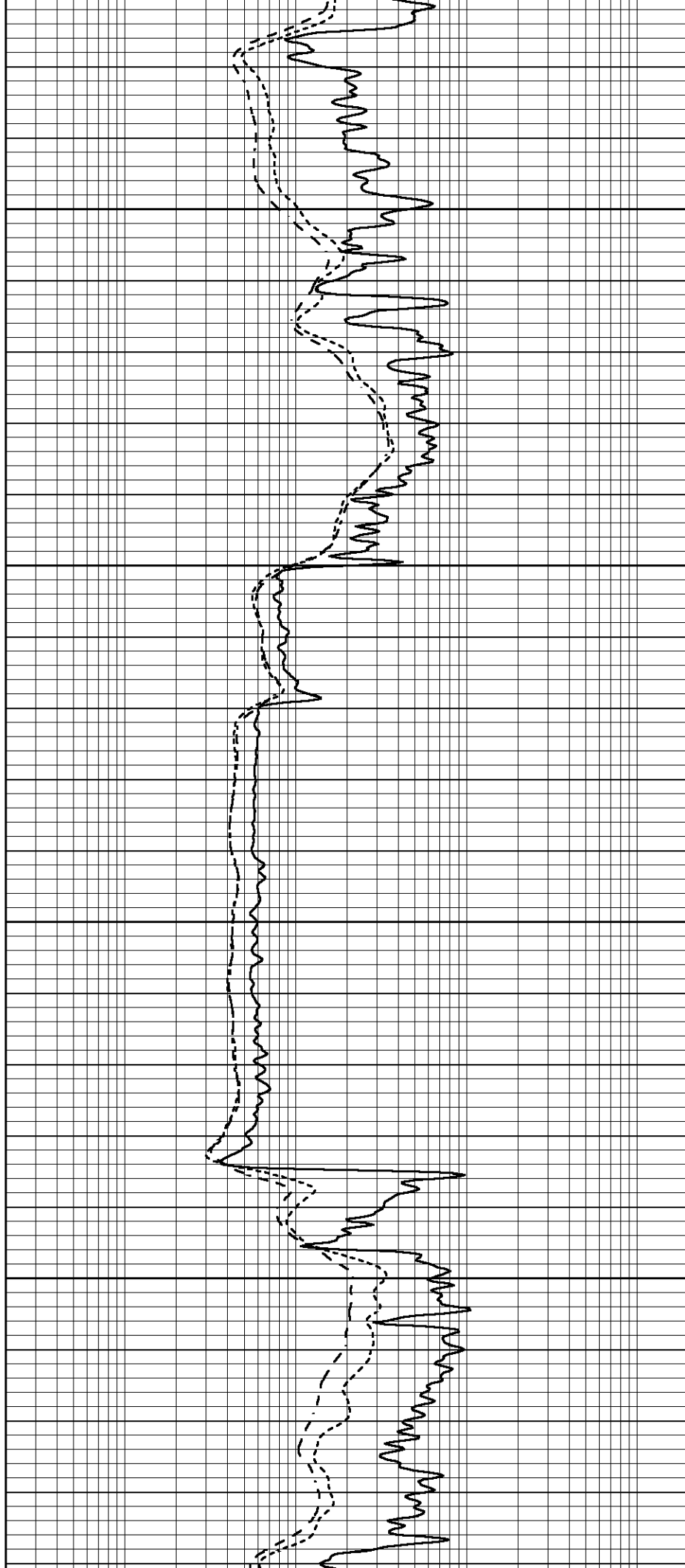


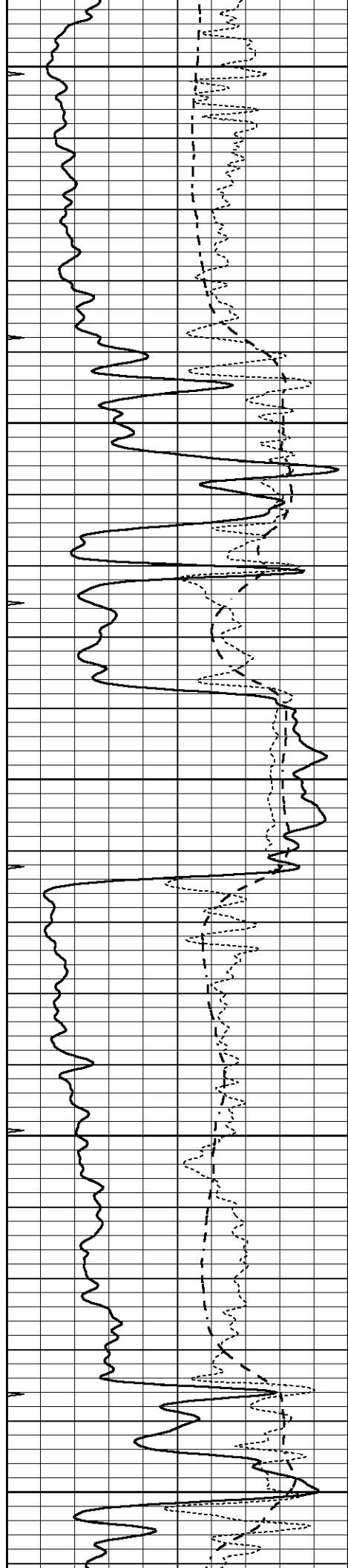
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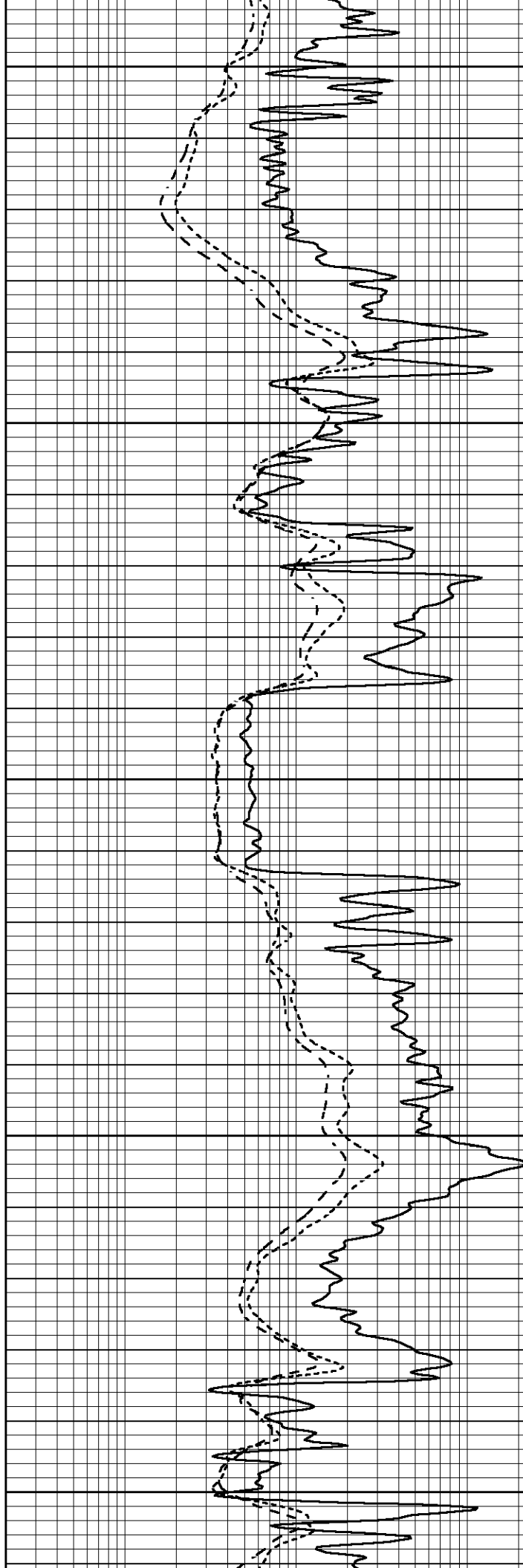
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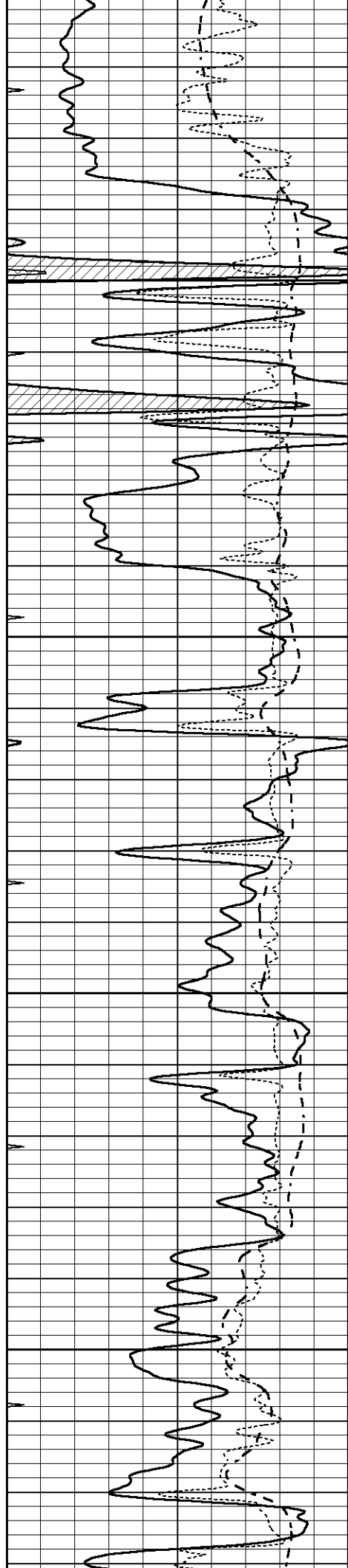
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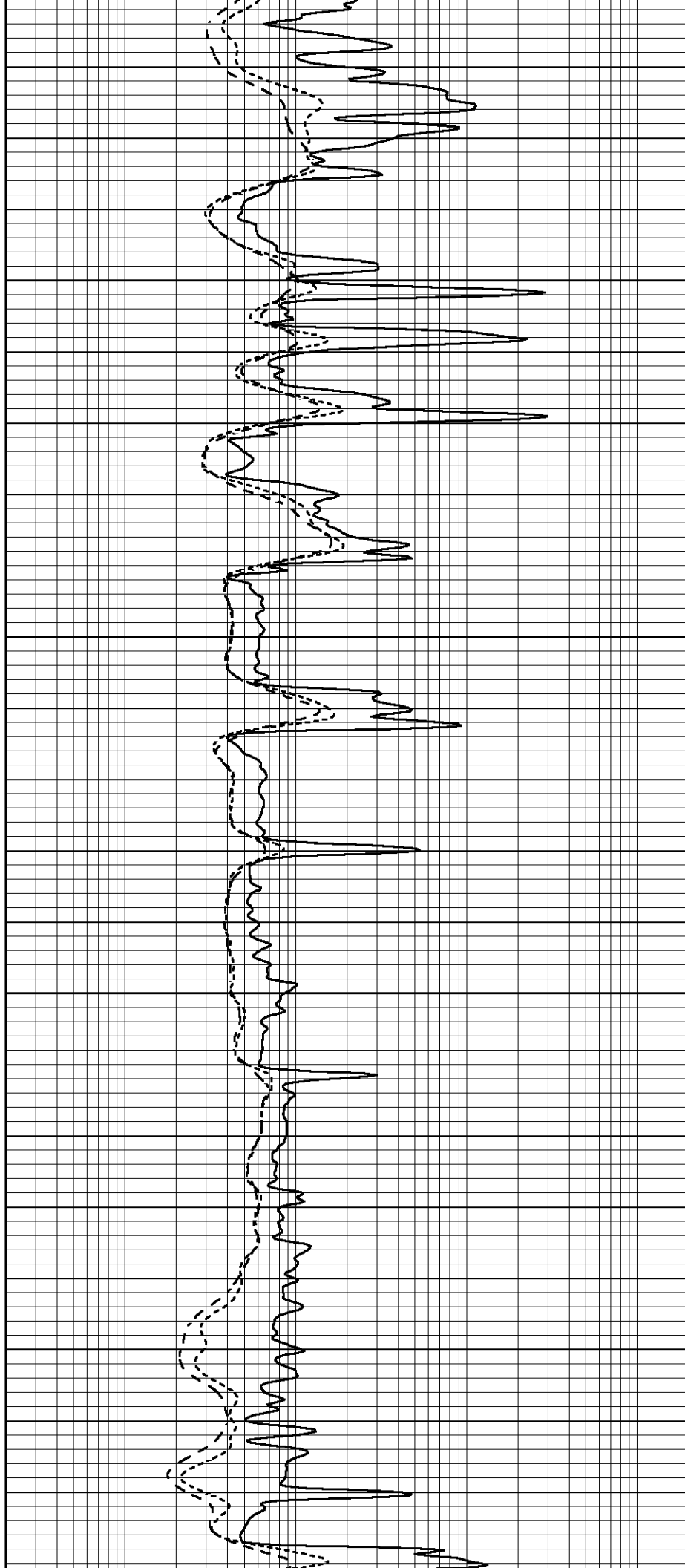


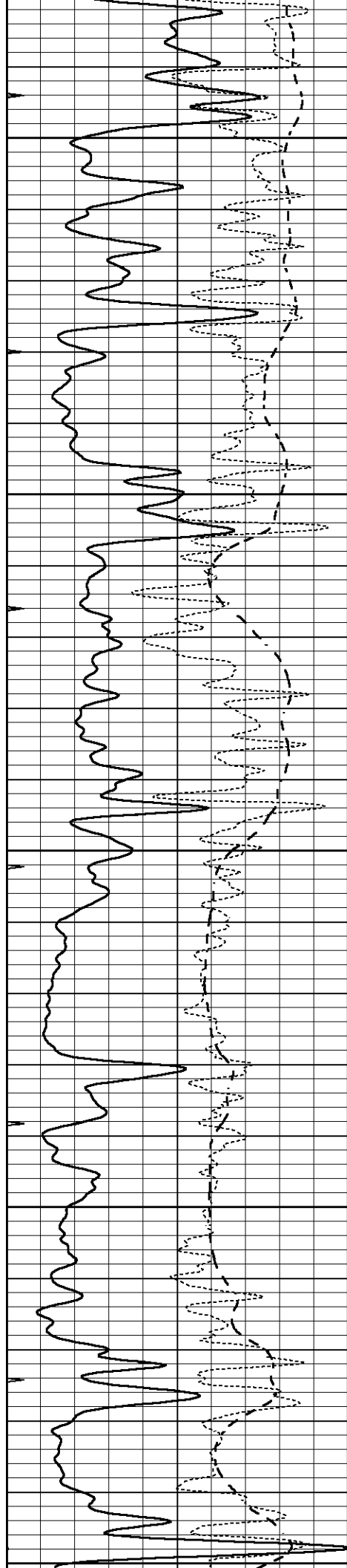
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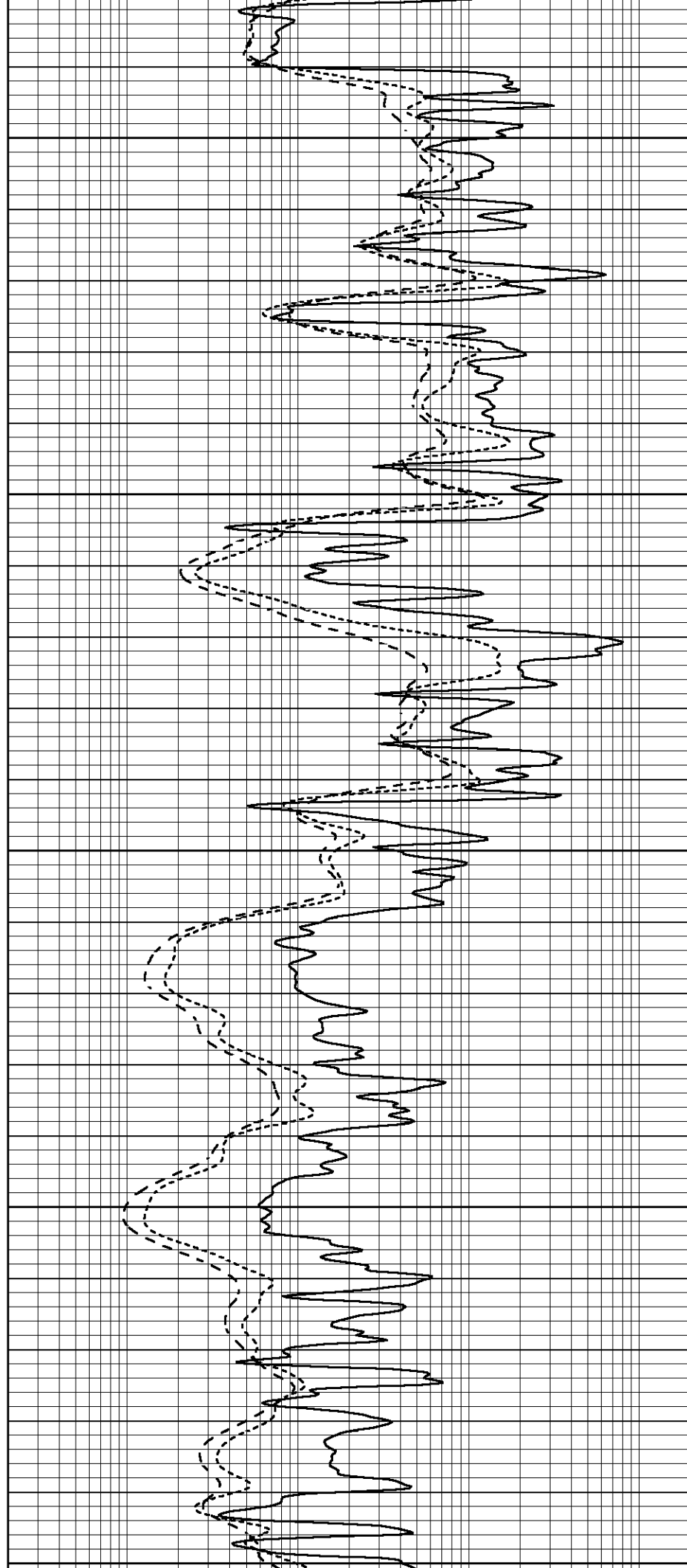
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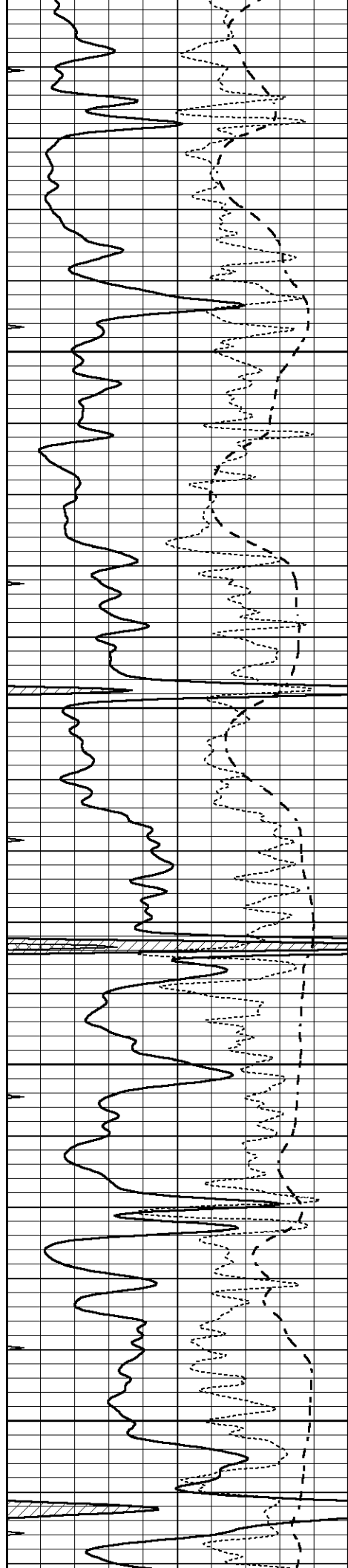
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4100





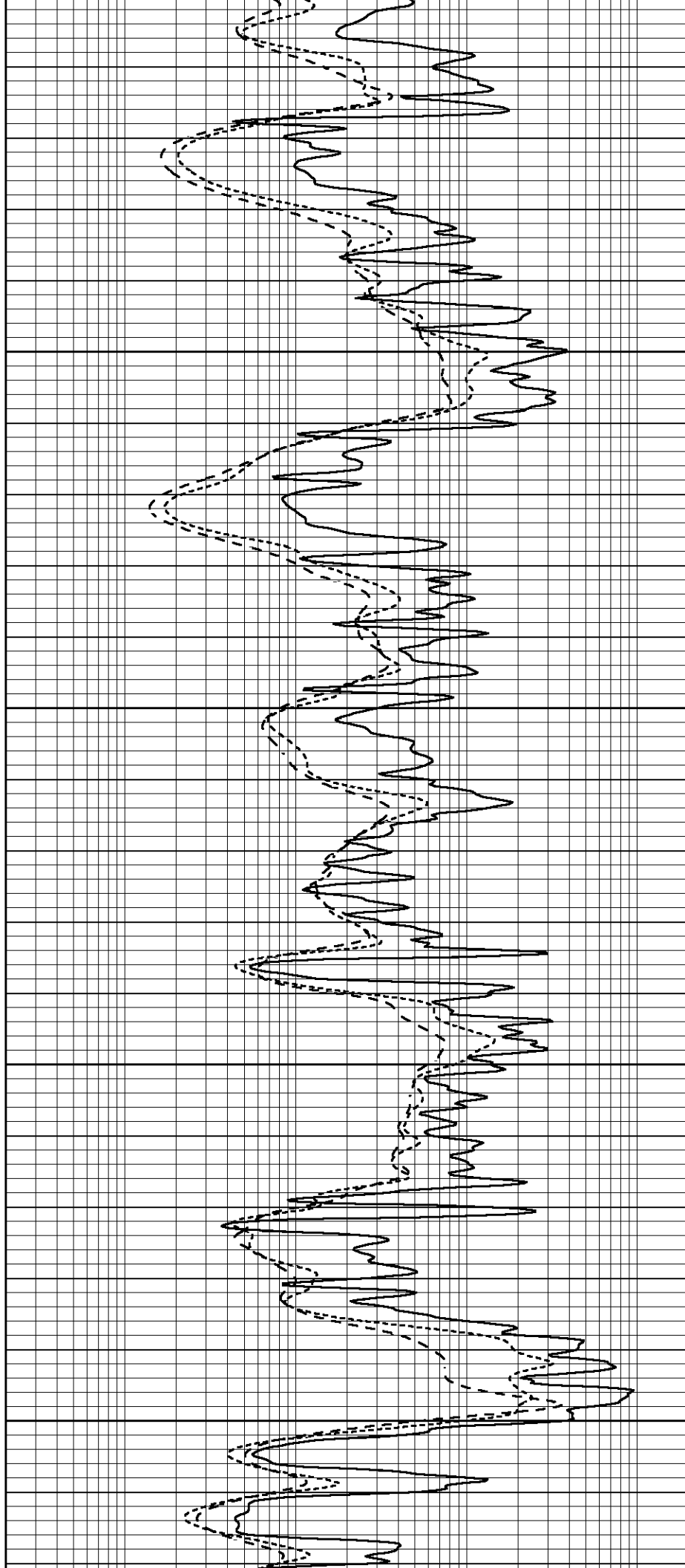
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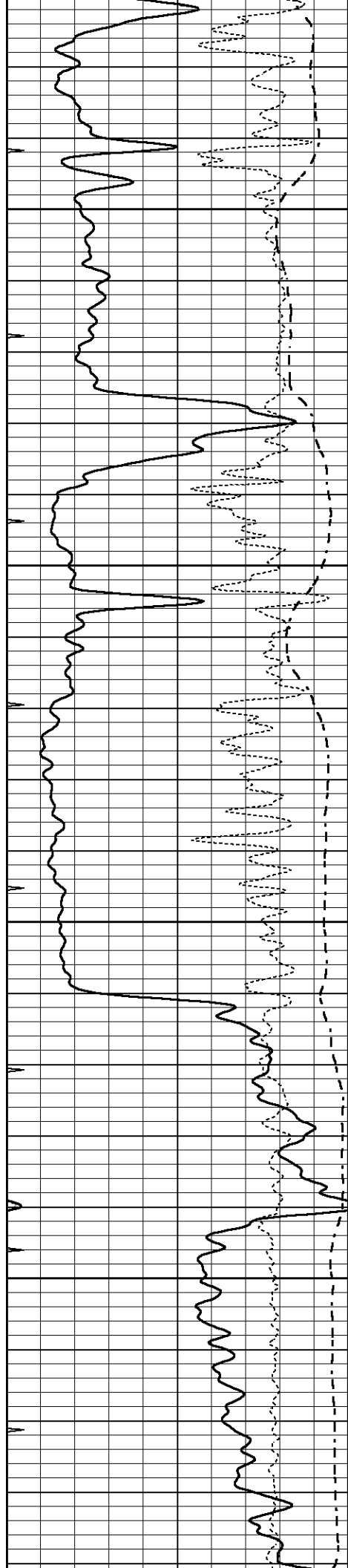
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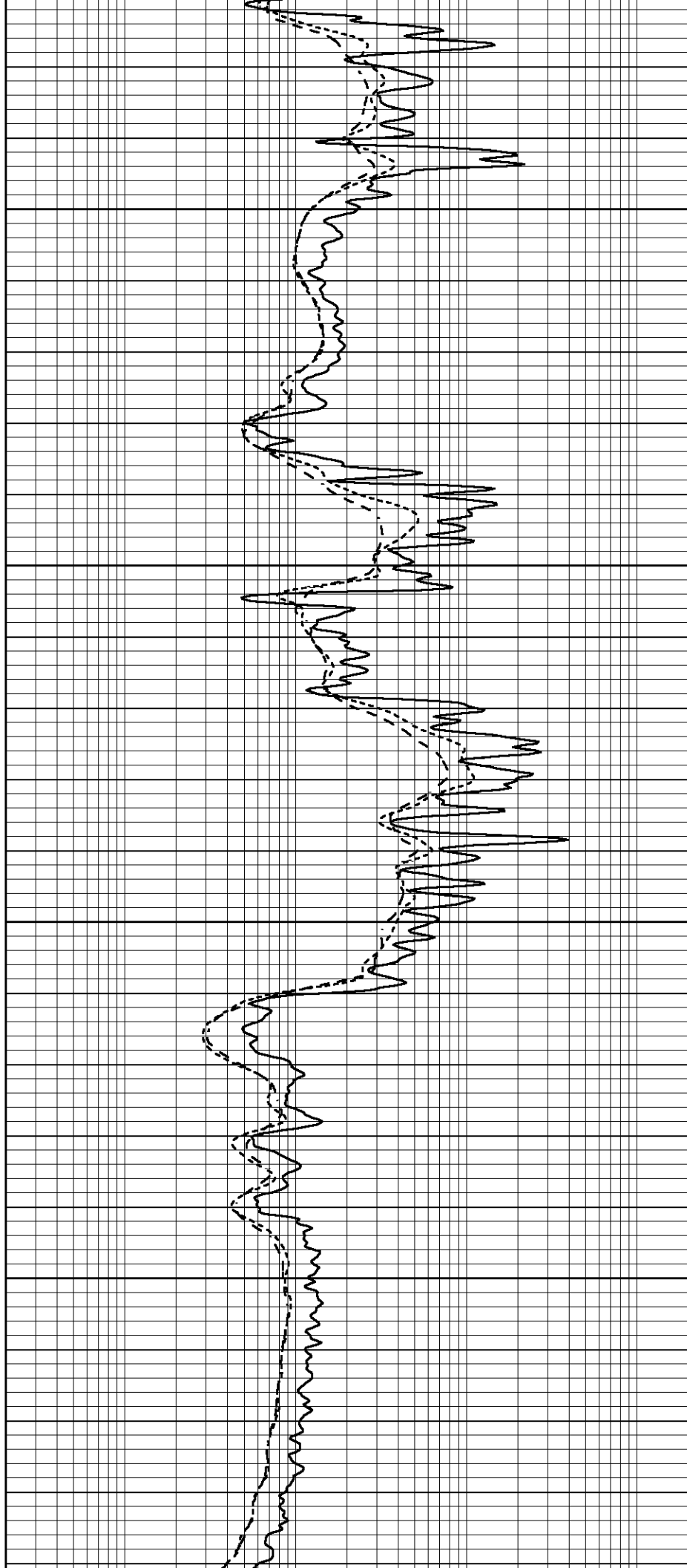


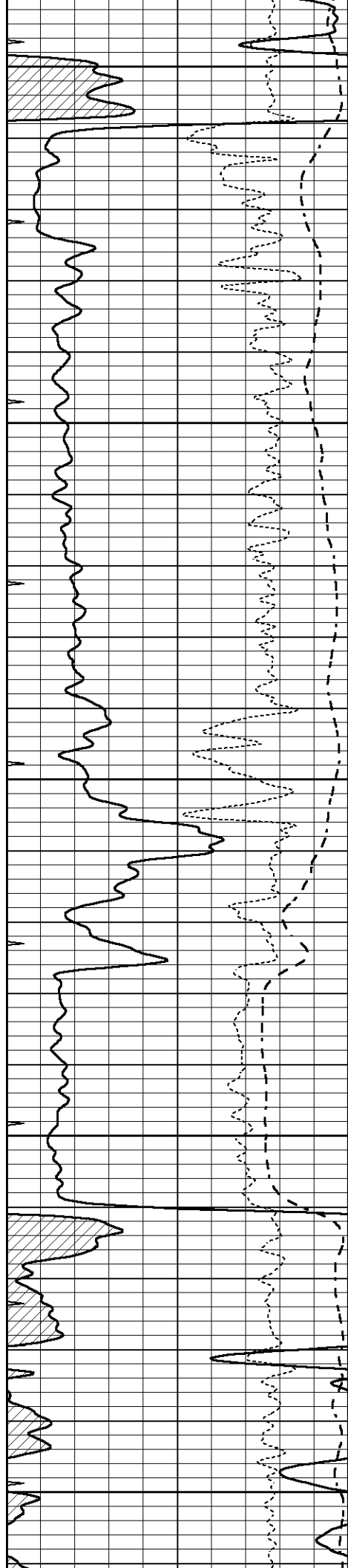
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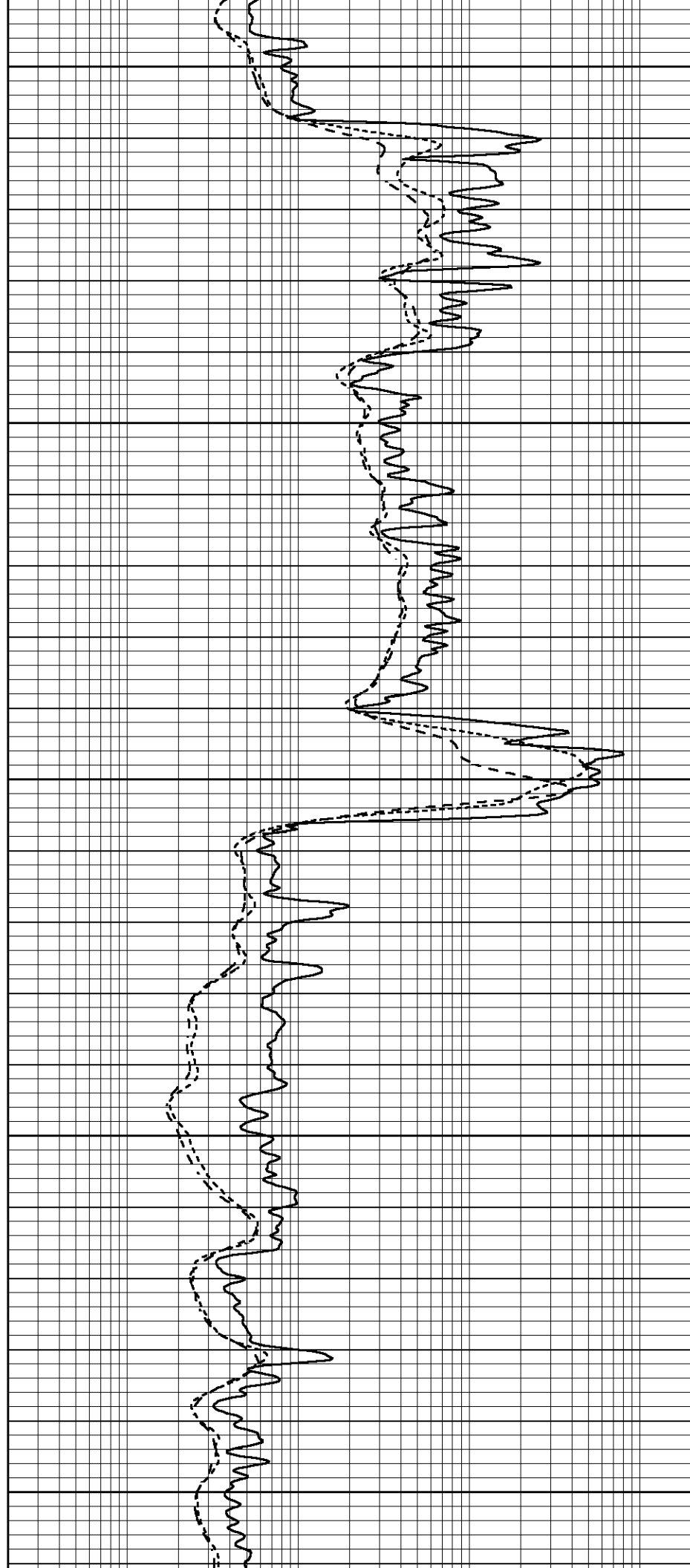
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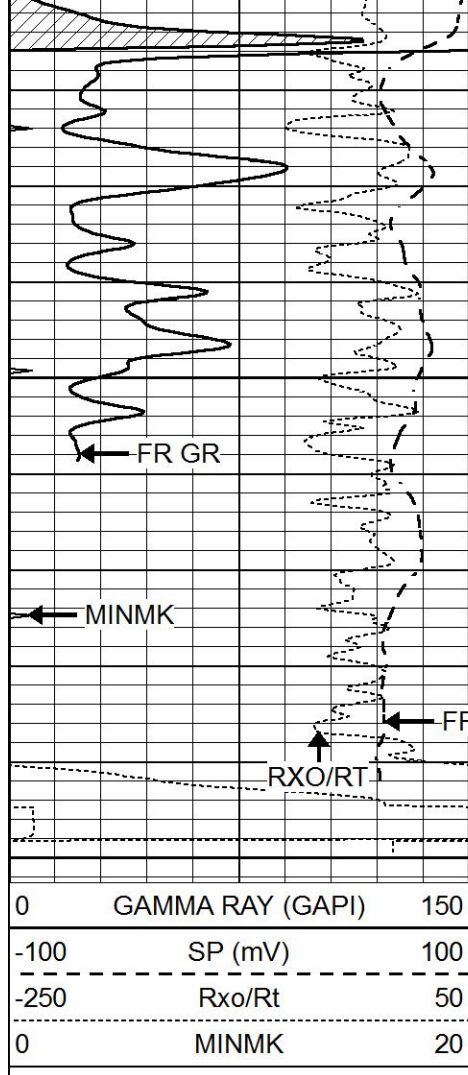
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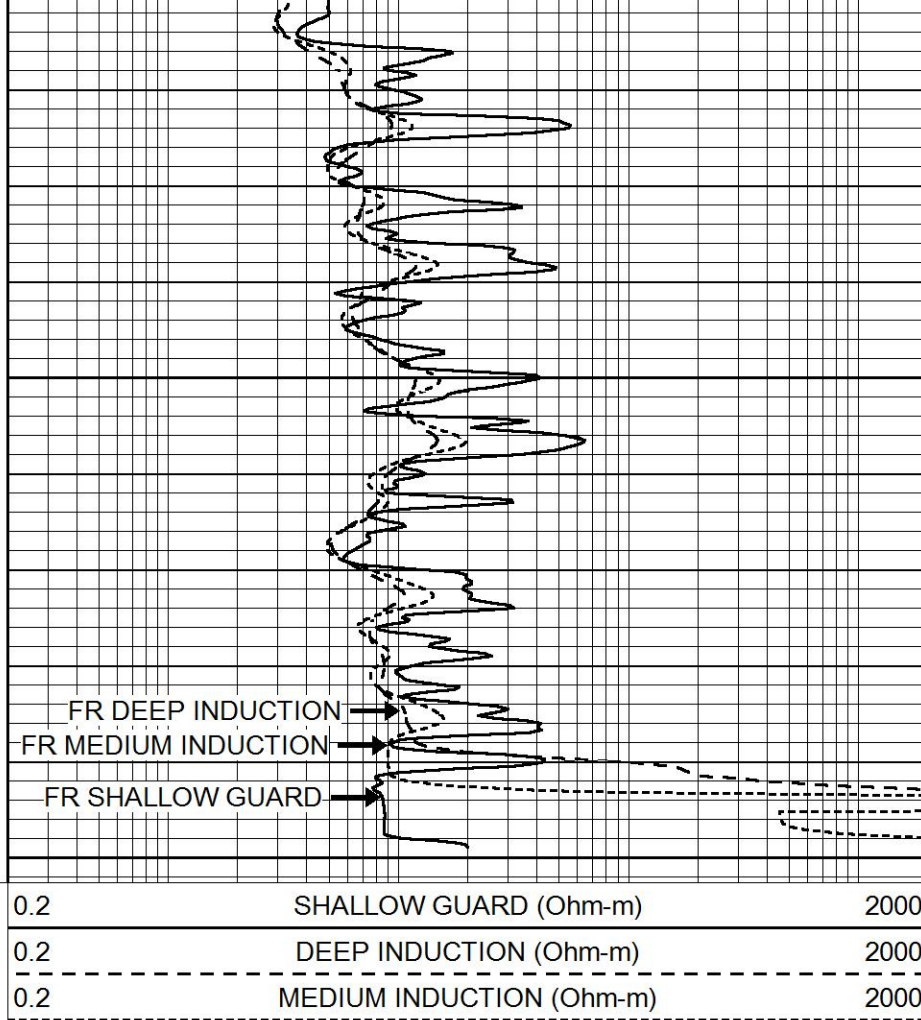
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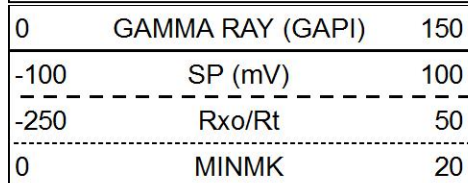
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LTD 4846
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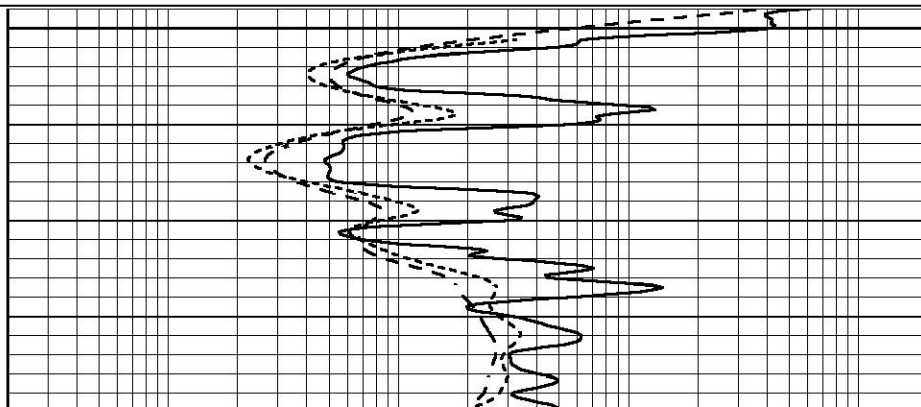
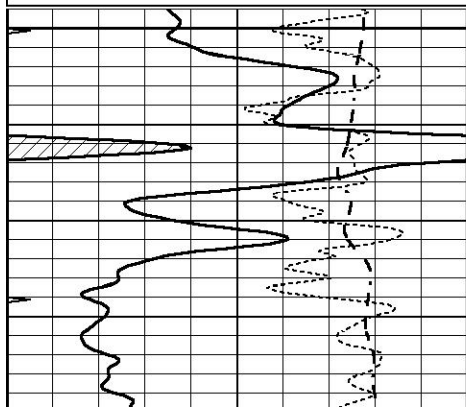
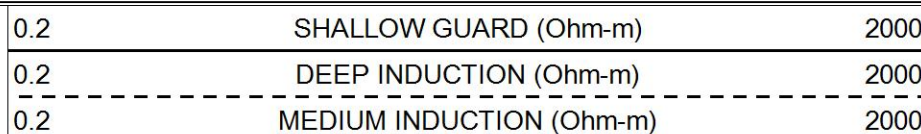


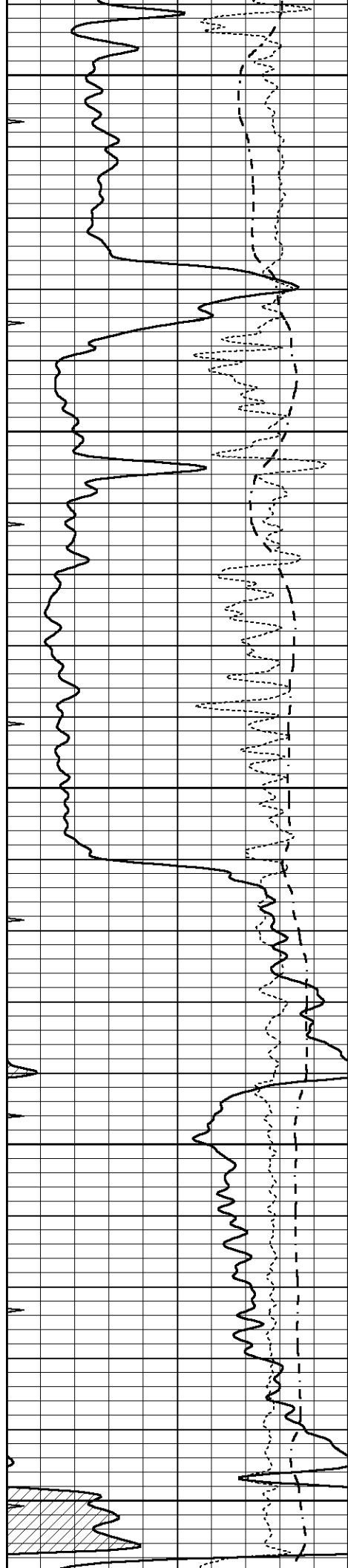
REPEAT SECTION

Database File 7089pe.db
Dataset Pathname pass2.1R
Presentation Format _dil
Dataset Creation Fri Oct 07 16:14:45 2022
Charted by Depth in Feet scaled 1:240



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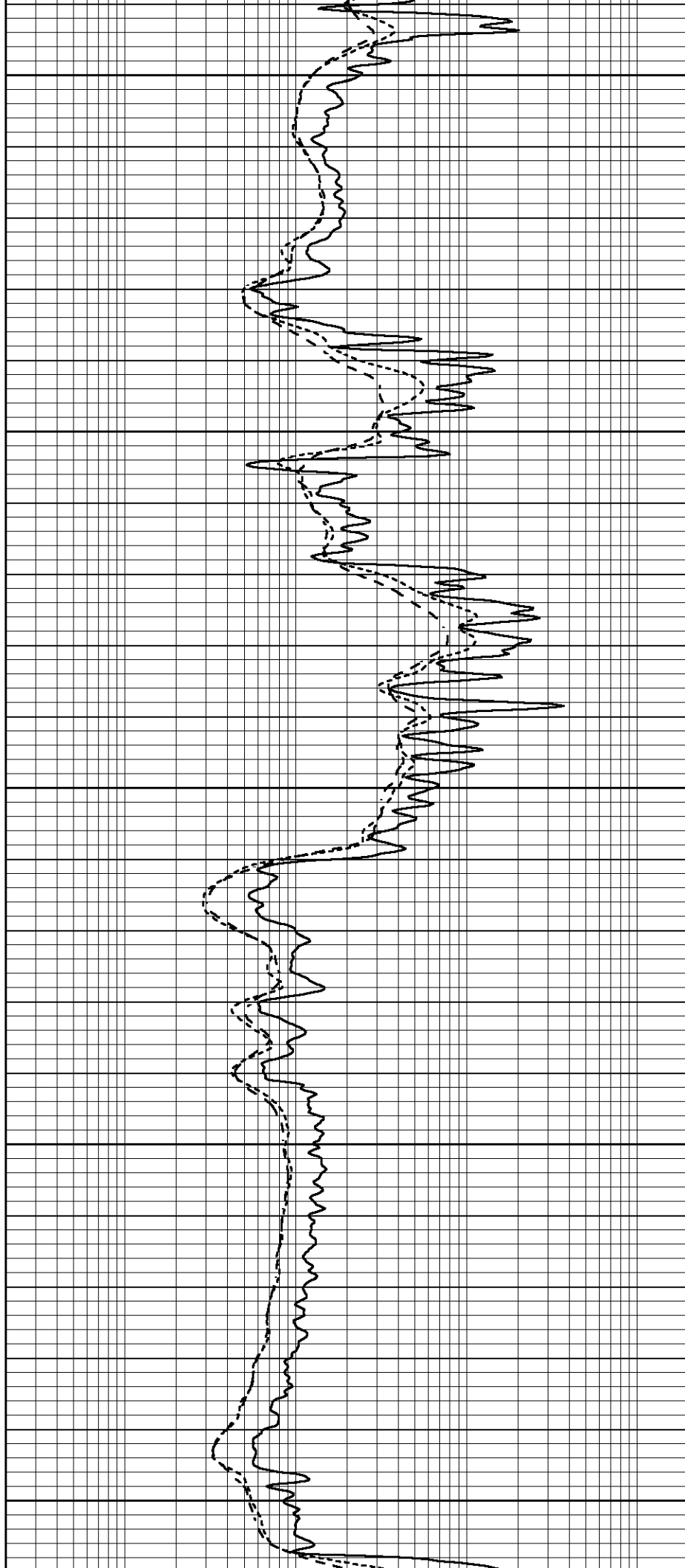
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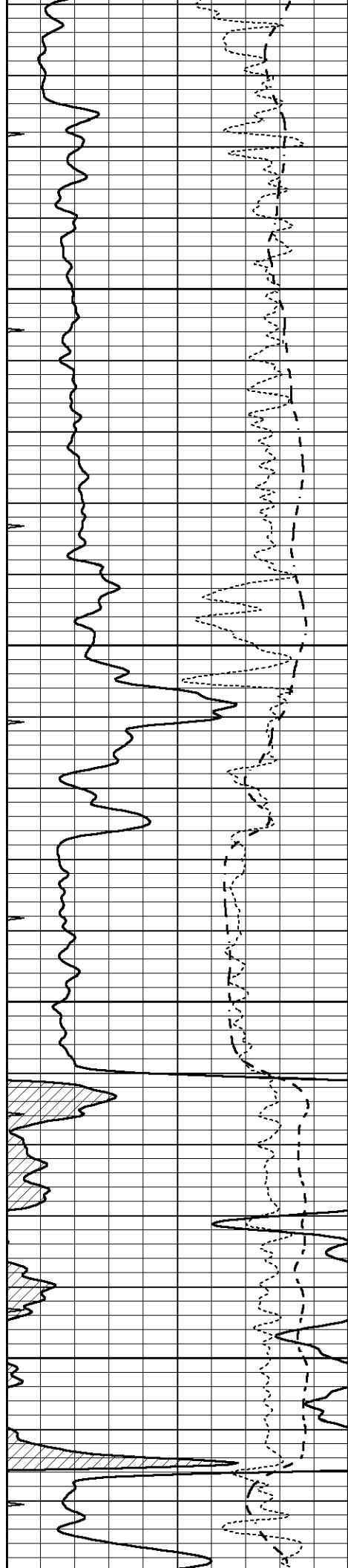
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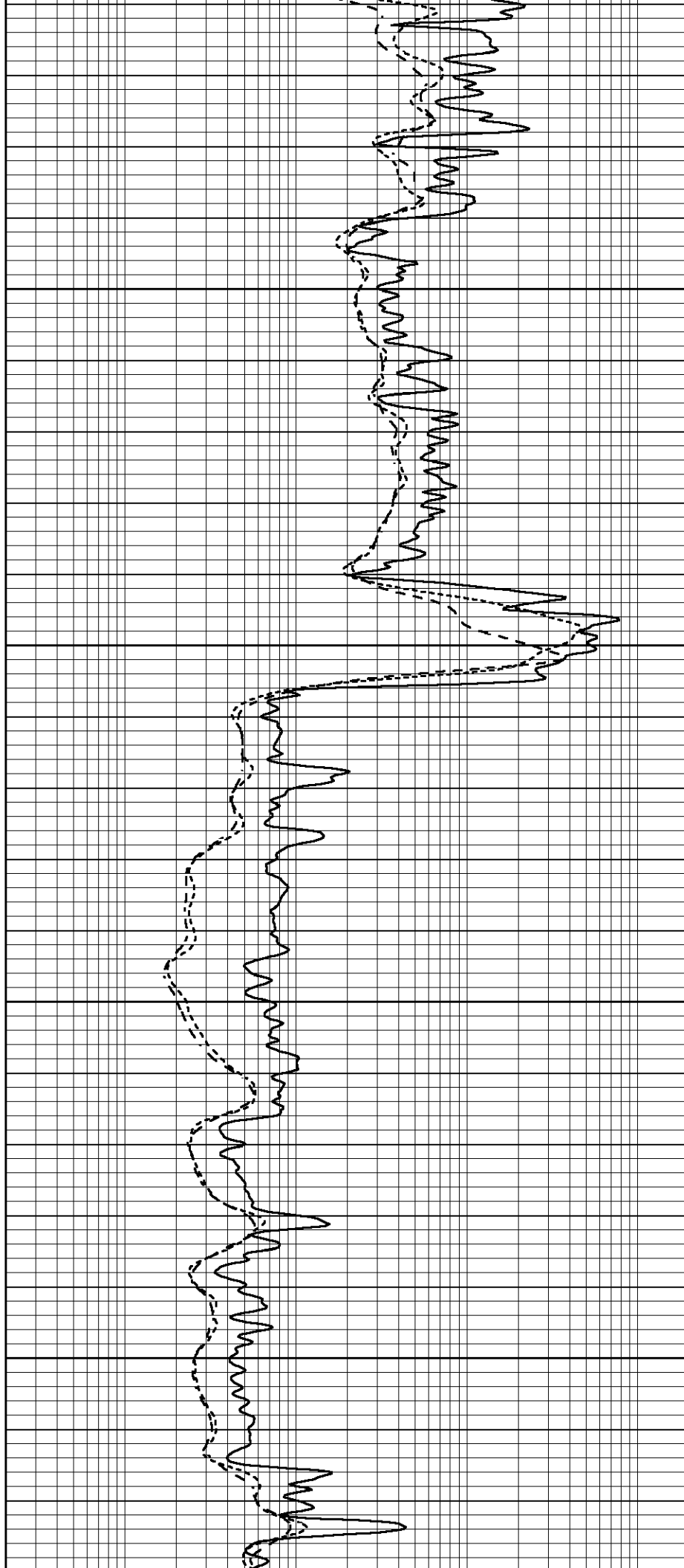


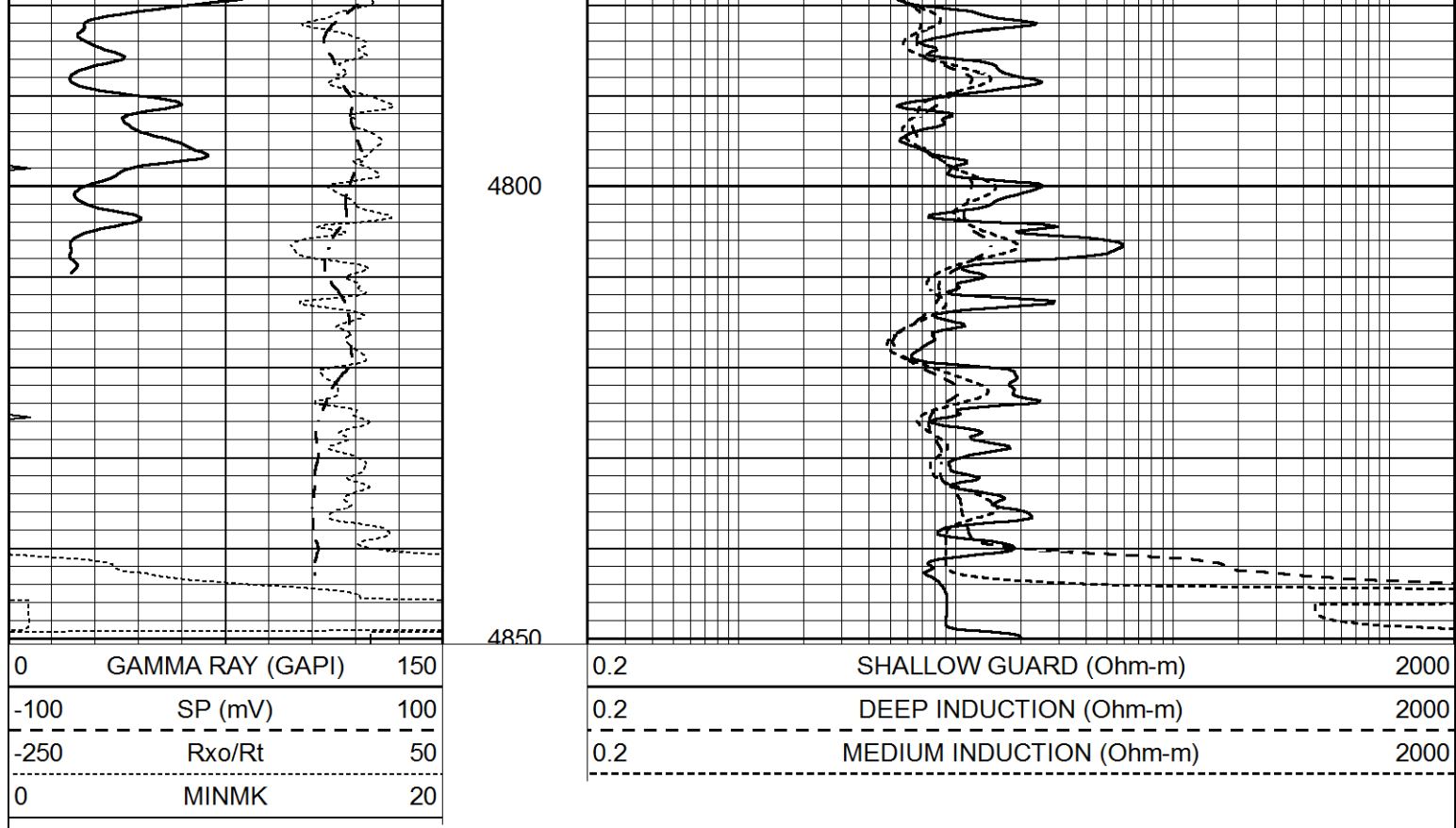
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Calibration Report									
Database File	7089pe.db								
Dataset Pathname	pass3.2M								
Dataset Creation	Fri Oct 07 16:06:32 2022								
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Fri Oct 07 13:54:26 2022					
Downhole Cal Performed:				Mon Jul 28 11:08:27 2008					
After Survey Verification Performed:				Mon Jul 28 11:08:27 2008					
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	640.000	1.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	625.000	-11.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619	
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000	
LL3		7.500	V		1500.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		-7.200	V		3800.000	mmho-m			

	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

Master Calibration			Performed Tue Aug 02 14:54:49 2022					
	Background	Magnesium		Aluminum		Aluminum+Fe		
Window 1	1540.1	9840.1		3279.8		3001.8		cps
Window 2	1435.6	8495.4		2920.3		2720.3		cps
Window 3	1167.4	4527.9		1868.6		1810.1		cps
Window 4	344.6	343.5		346.7		342.3		cps
Long Space	0.0	7059.8		1484.8		1284.7		cps
Short Space	3.3	2502.7		1618.3		1368.5		cps
Rho		1.7100		2.5900		0.0000		g/cc
Pe		2.0000		2.7500		5.7900		
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio			: 0.544	
Spine Angle	: 74.4	Spine Slope	: 3.576	Spine Intercept			: -19.1	

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
Short Space	cps		
Long Space	cps	pu	pu
Gamma Ray Calibration Report			
Serial Number:	070558		
Tool Model:	OPEN_GR		
Performed:	Wed Sep 28 11:42:18 2022		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	