

DUAL INDUCTION LOG

Company	PHILLIPS EXPLORATION CO. L.C.	Company	PHILLIPS EXPLORATION COMPANY, L.C.
Well	ERIC LITTLECHILD #1-34	Well	ERIC LITTLECHILD #1-34
Field	MARY HANNA	Field	MARY HANNA
County	GRAHAM	County	GRAHAM
State	KANSAS	State	KANSAS
Location:	API # : 15-065-24322-0000 1700' FSL & 1100' FWL NE - SE - NW - SW	Other Services CDL/CNL MEL	
Permanent Datum	GROUND LEVEL	Elevation	2325
Log Measured From	KELLY BUSHING 5' A.G.L.	K.B. 2330 D.F. 2328 G.L. 2325	
Drilling Measured From	KELLY BUSHING		
Date	10/3/24		
Run Number	ONE		
Depth Driller	4000		
Depth Logger	4000		
Bottom Logged Interval	3998		
Top Log Interval	00		
Casing Driller	8.625@220		
Casing Logger	220		
Bit Size	7.785		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.1/58		
pH / Fluid Loss	10.5/6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.750@89F		
Rmf @ Meas. Temp	.563@89F		
Rmc @ Meas. Temp	.900@89F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.575@116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	3:30 P.M.		
Maximum Recorded Temperature	116F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	BLAKE MILLER		

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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.

15-065-24322-0000

Comments

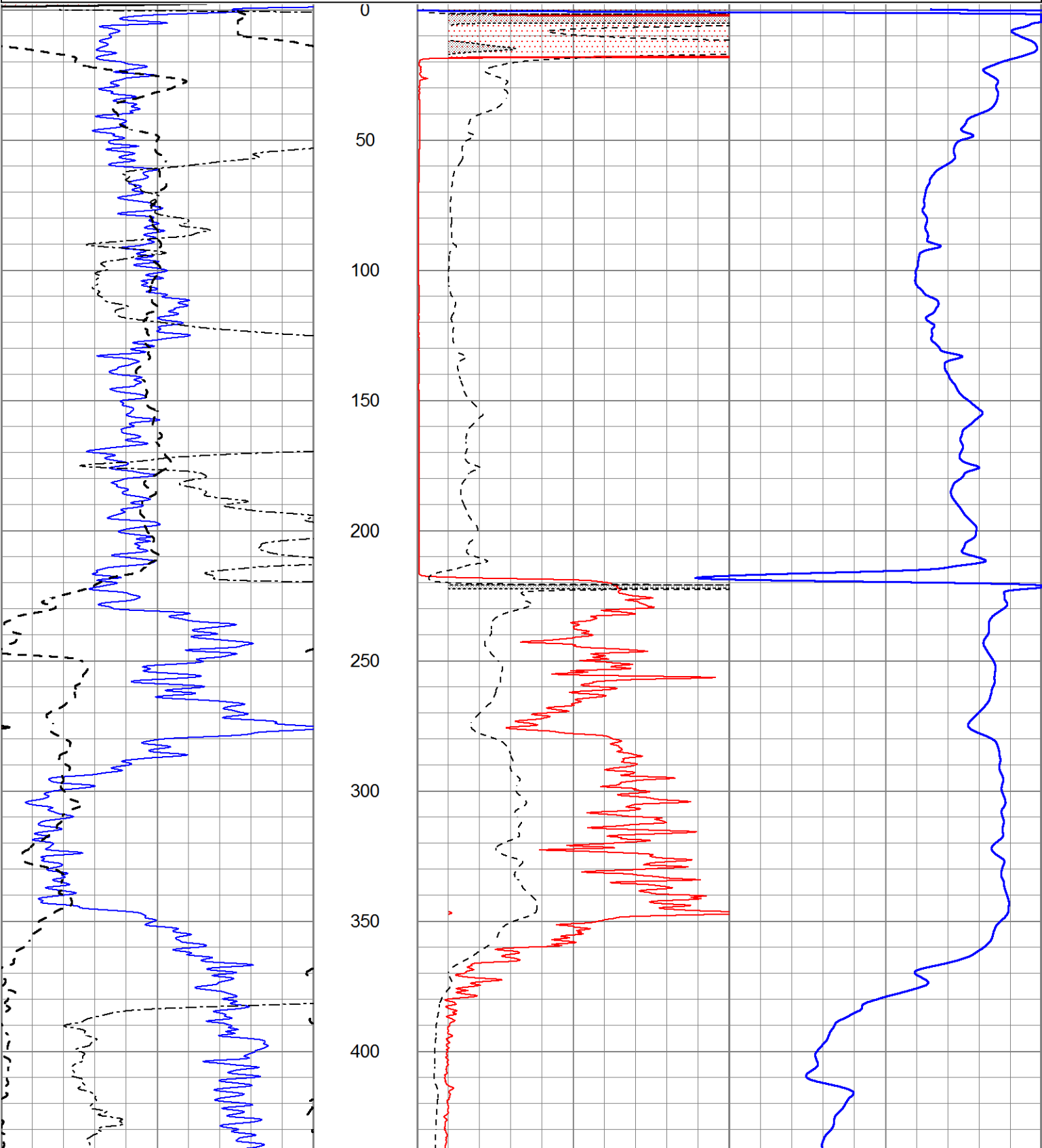
THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS

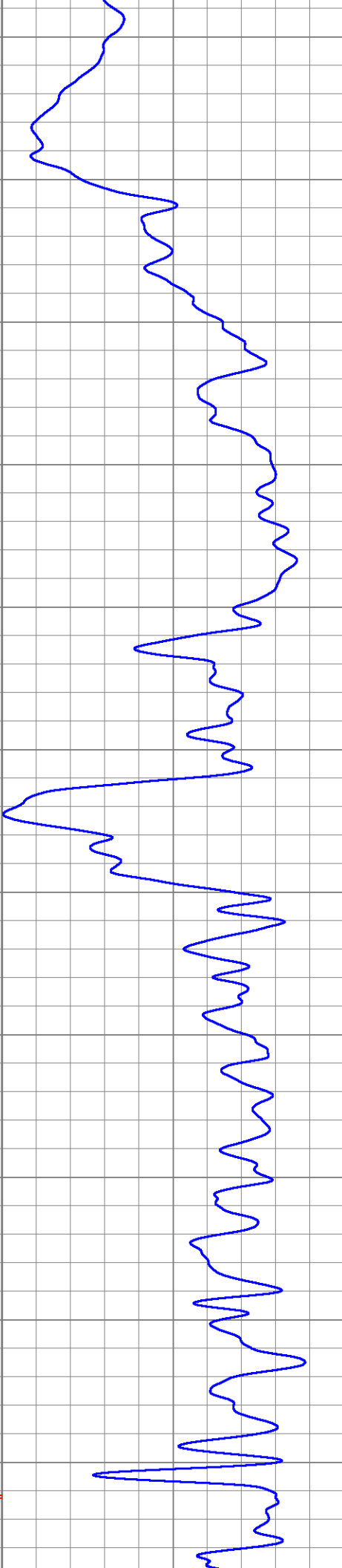
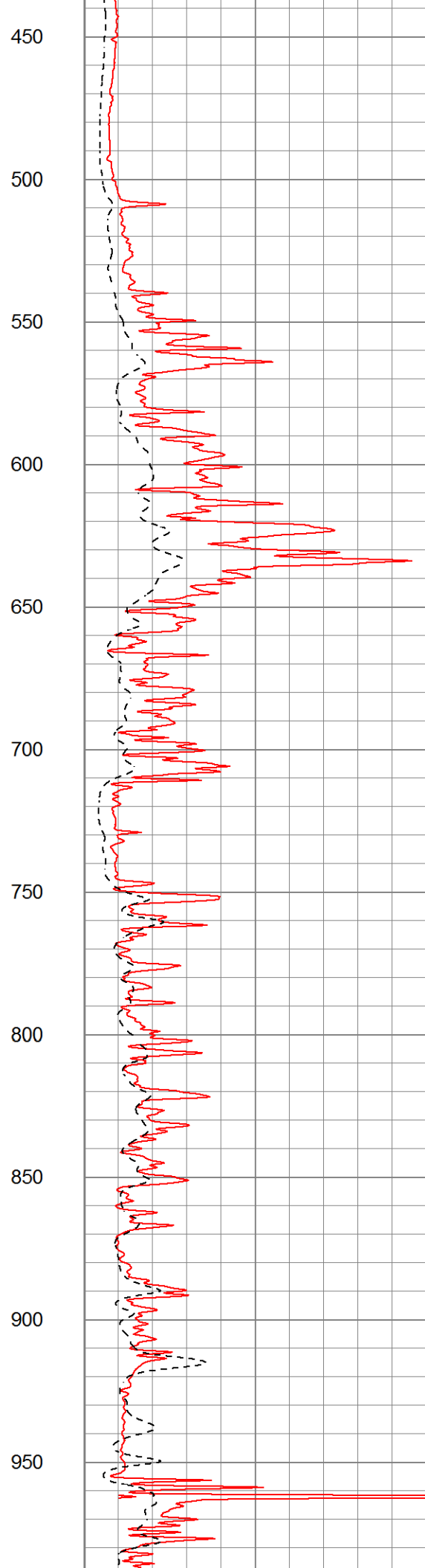
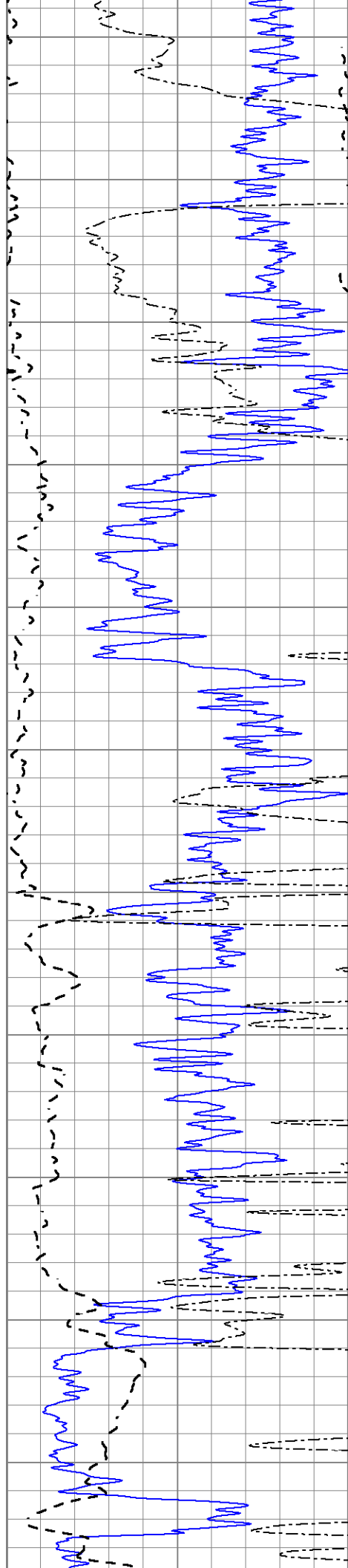
WAKEENEY, KS., (I-70 & HWY 283) 8N. OM HWY 283 TO "RD. B", 6W. TO "RD. 200", 1N., 1/2W. TO
CURVE, N. TO FARM DRIVE, W. INTO PAST SHED

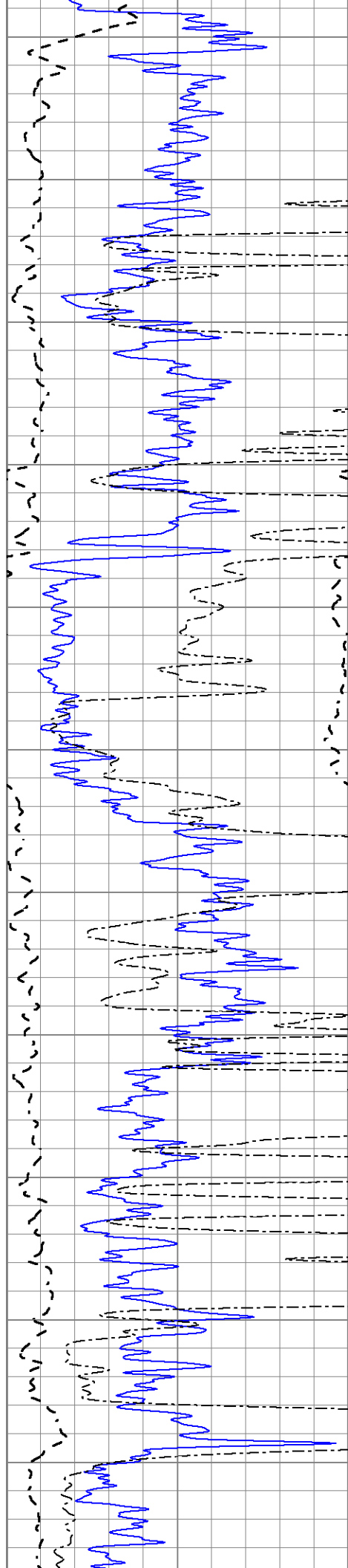


MAIN SECTION

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

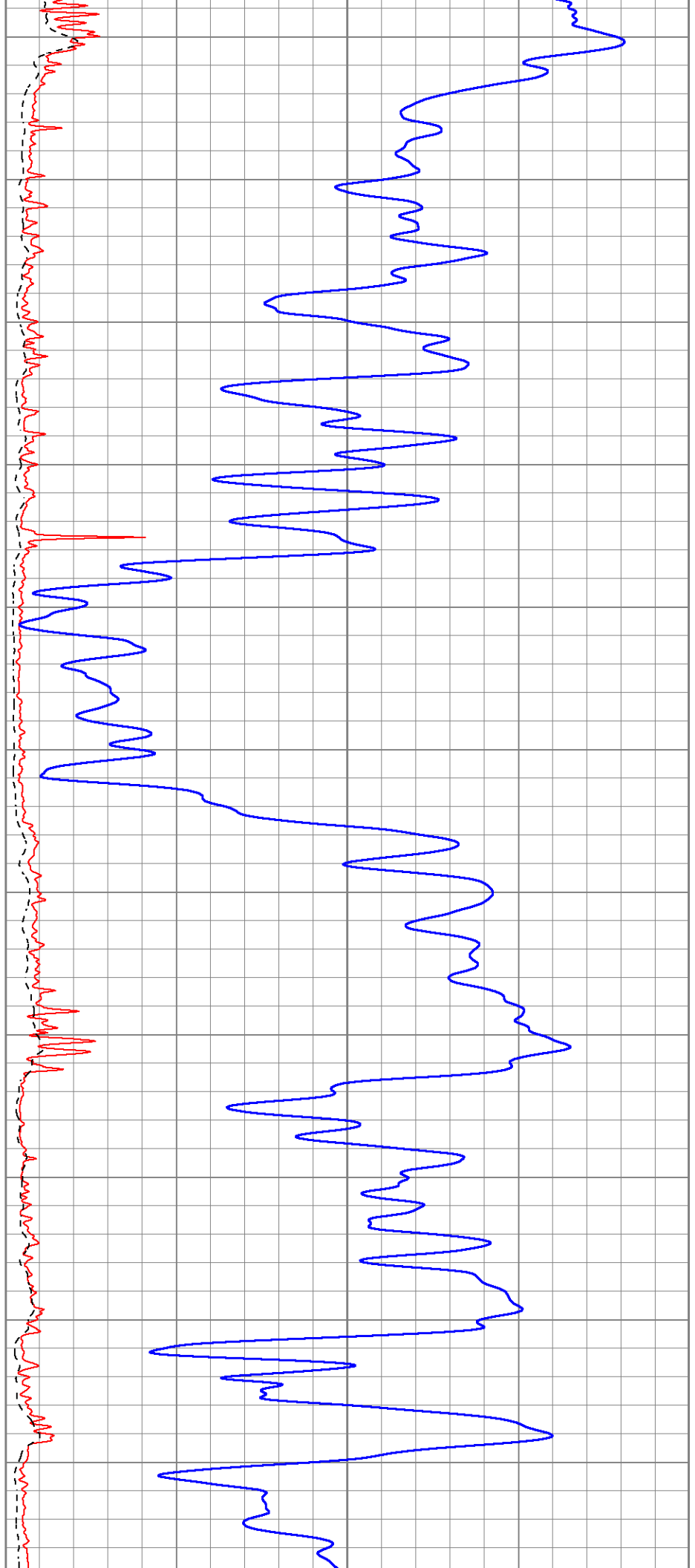
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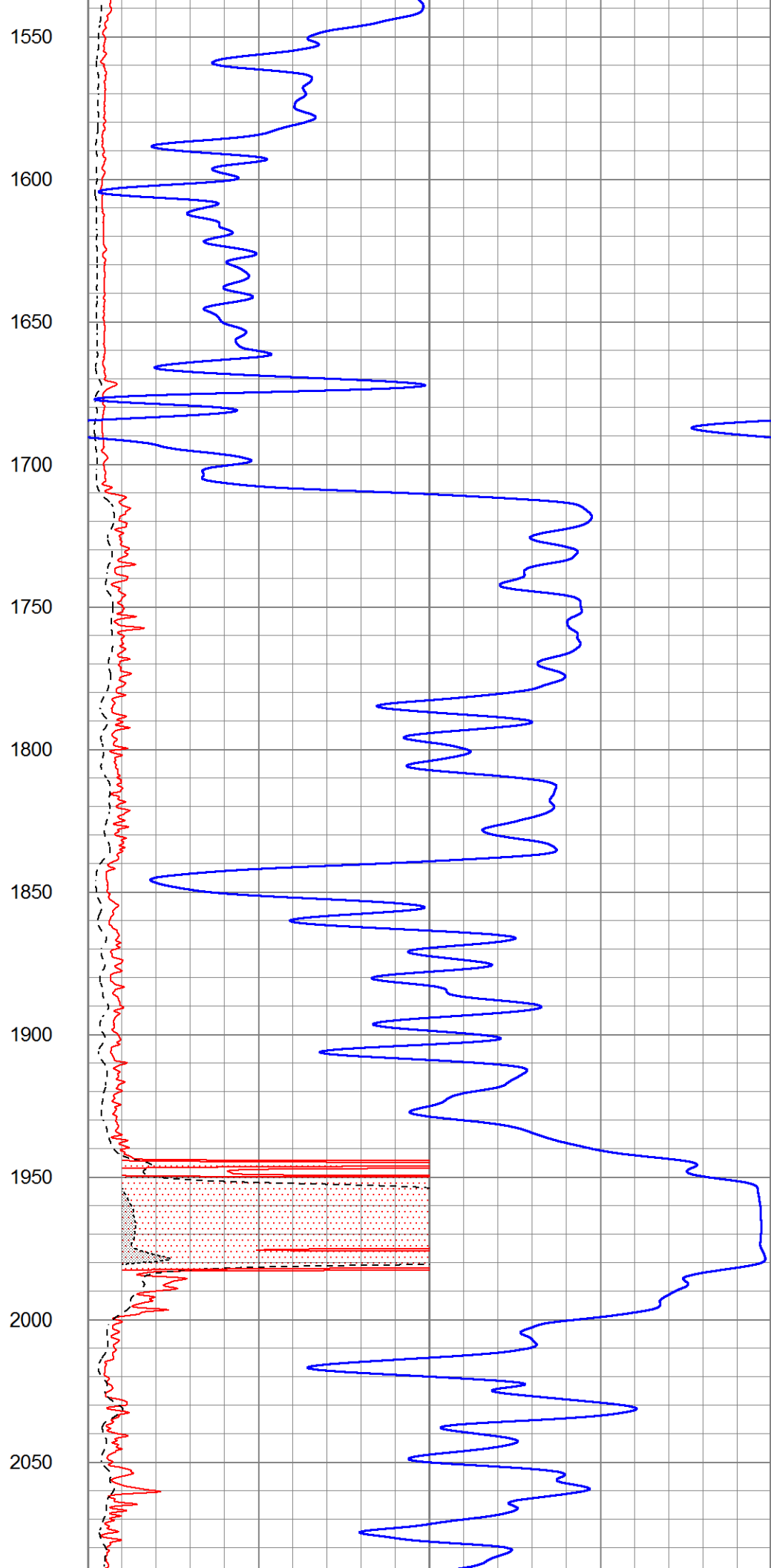
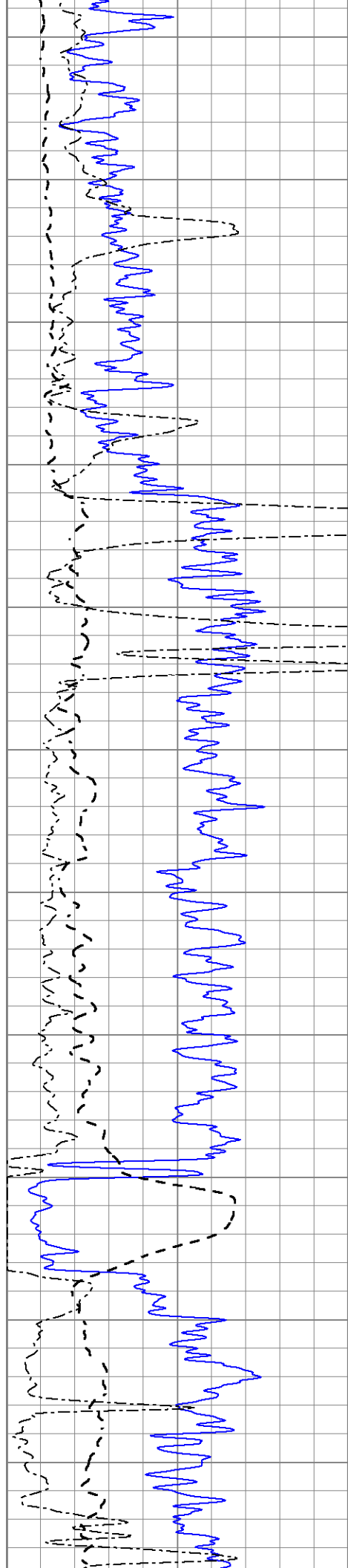
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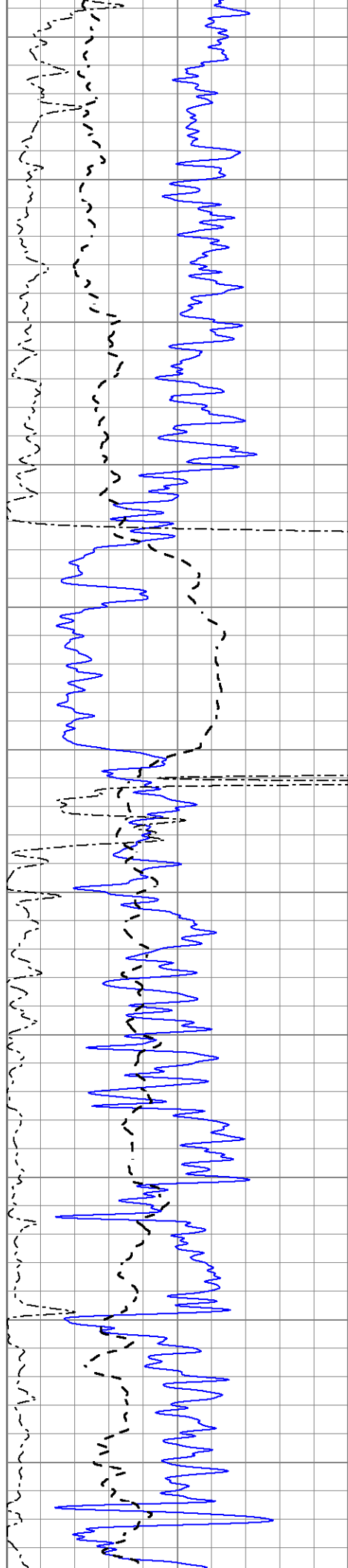
1400

1450

1500







2100

2150

2200

2250

2300

2350

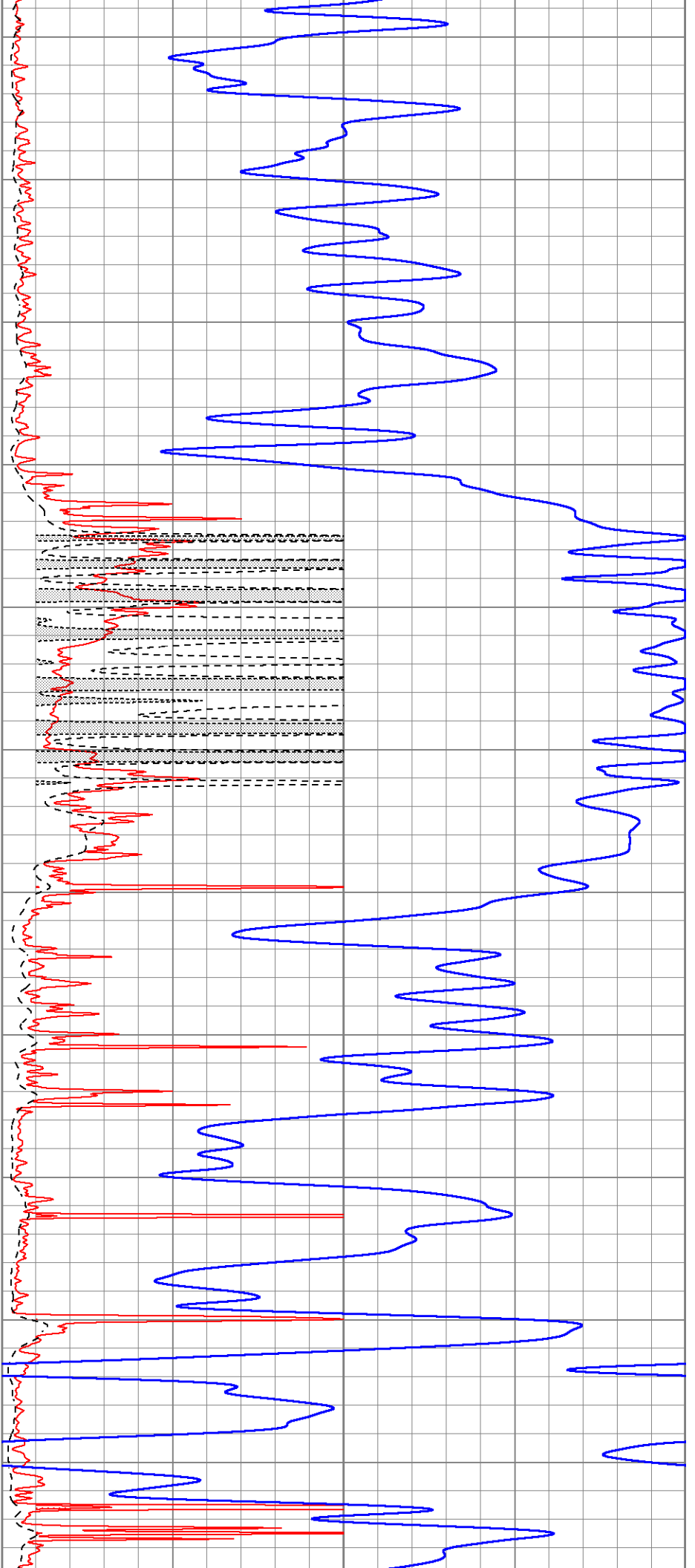
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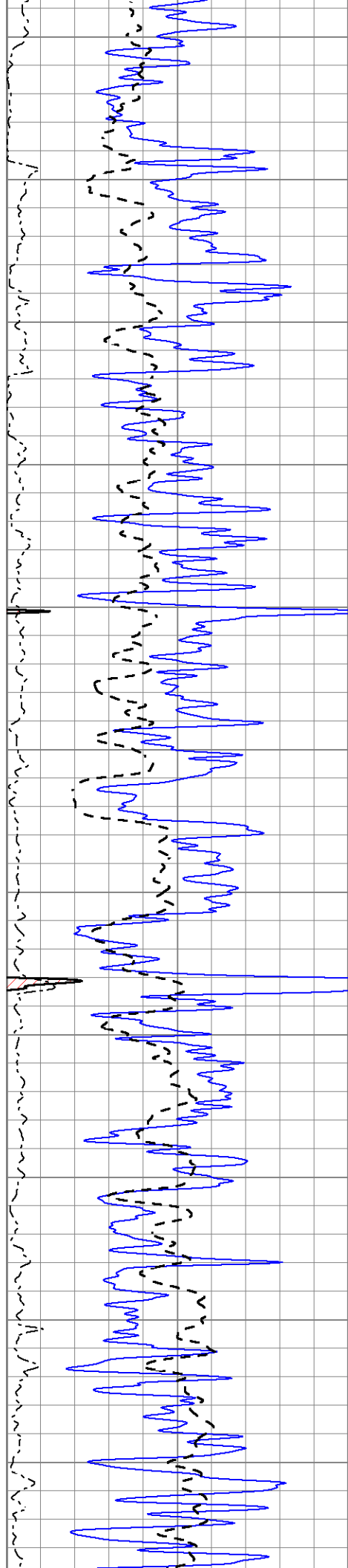
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2500

2550

2600





2650

2700

2750

2800

2850

2900

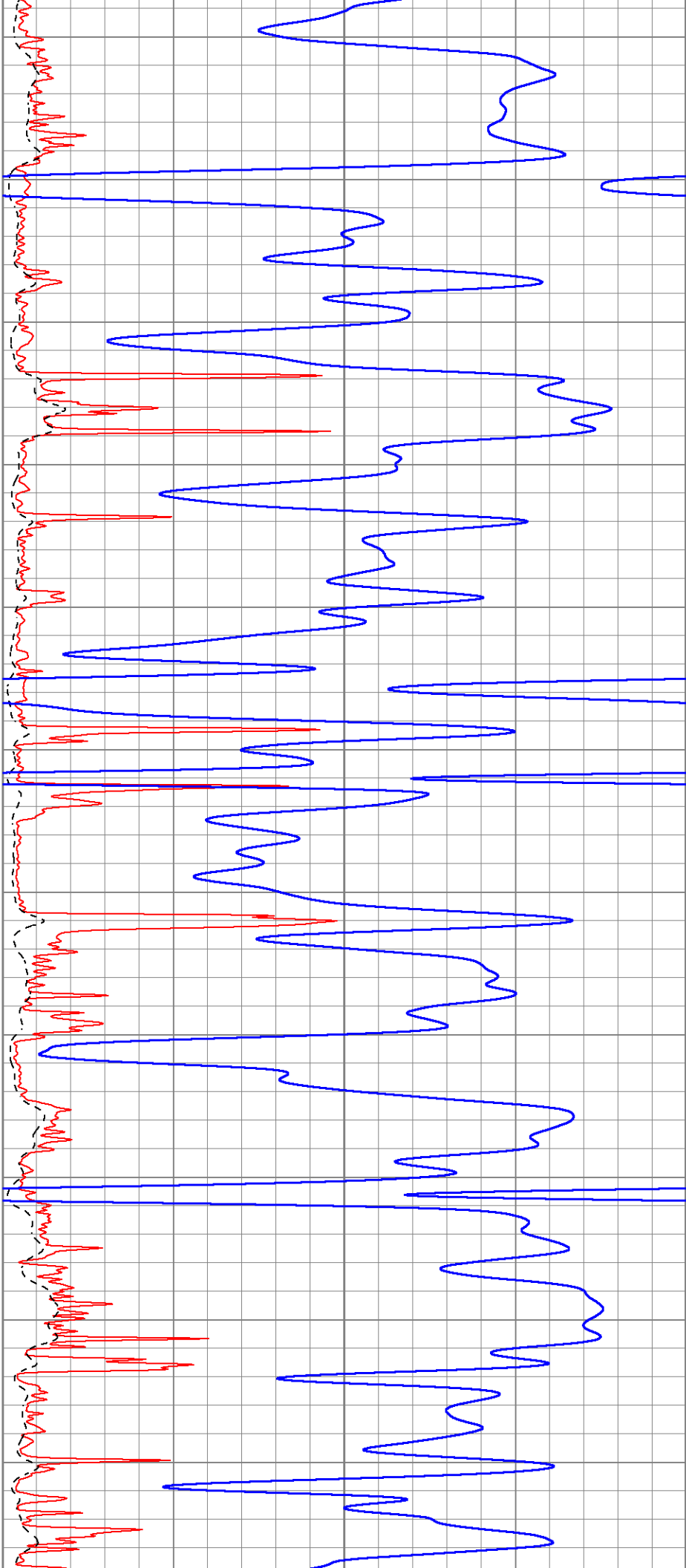
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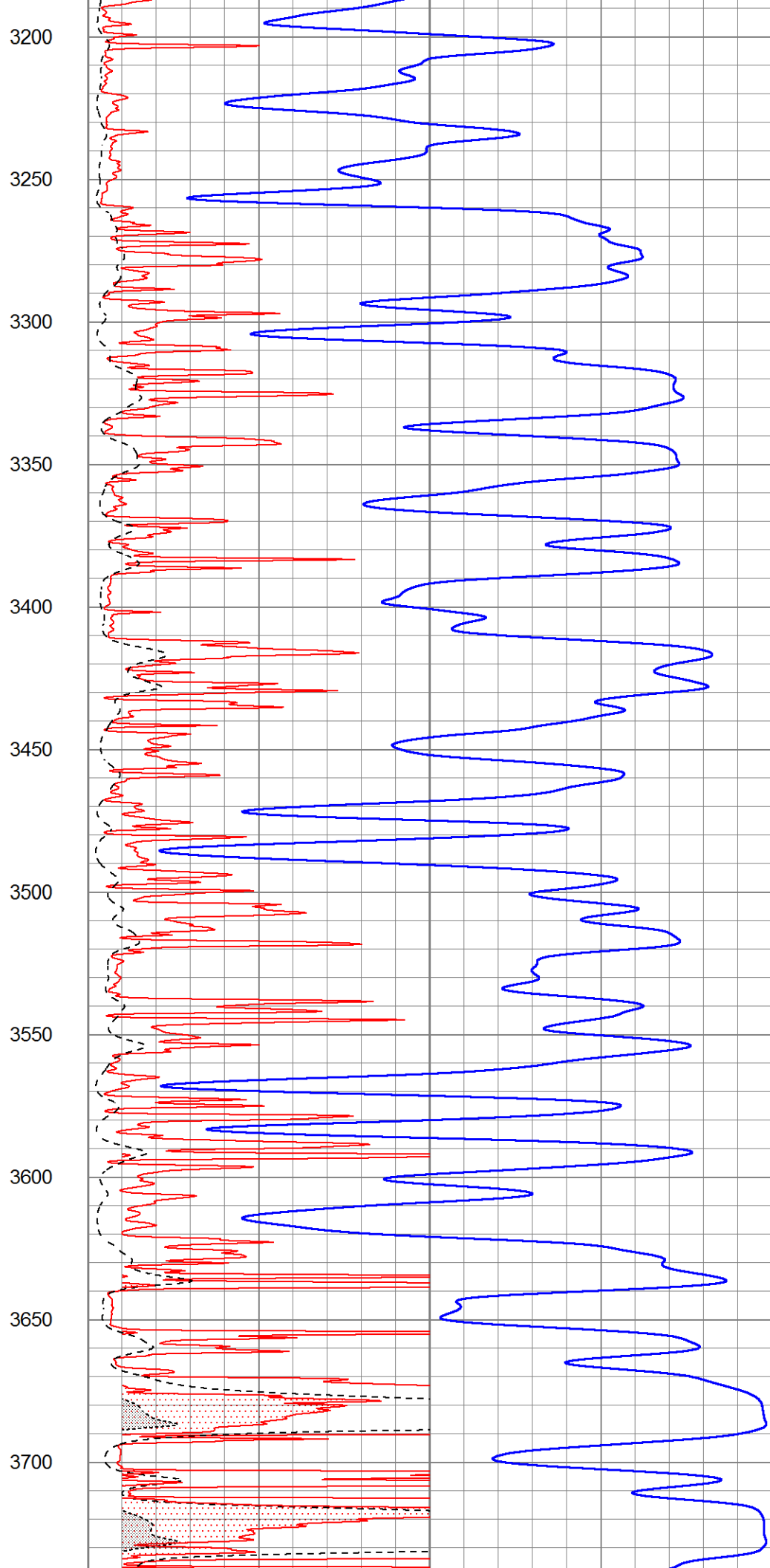
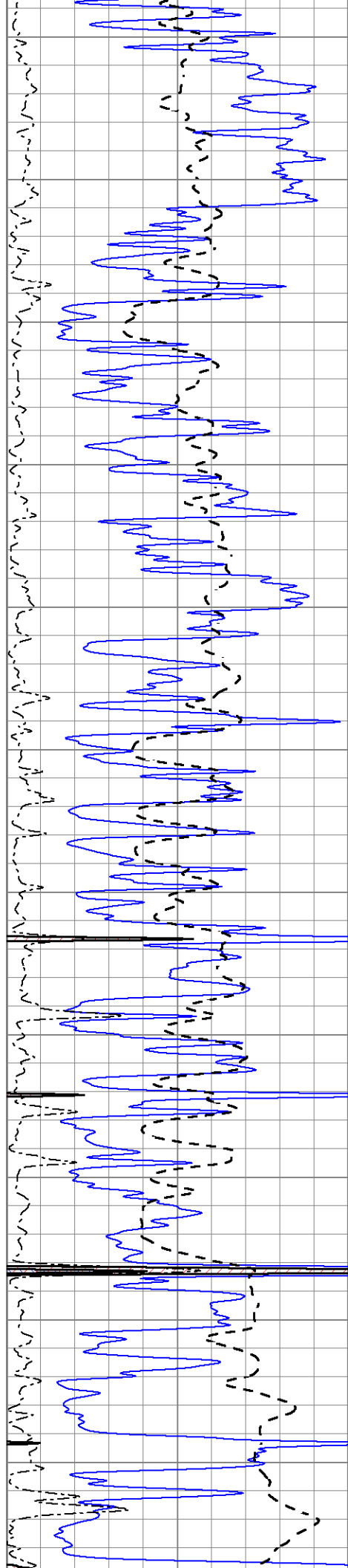
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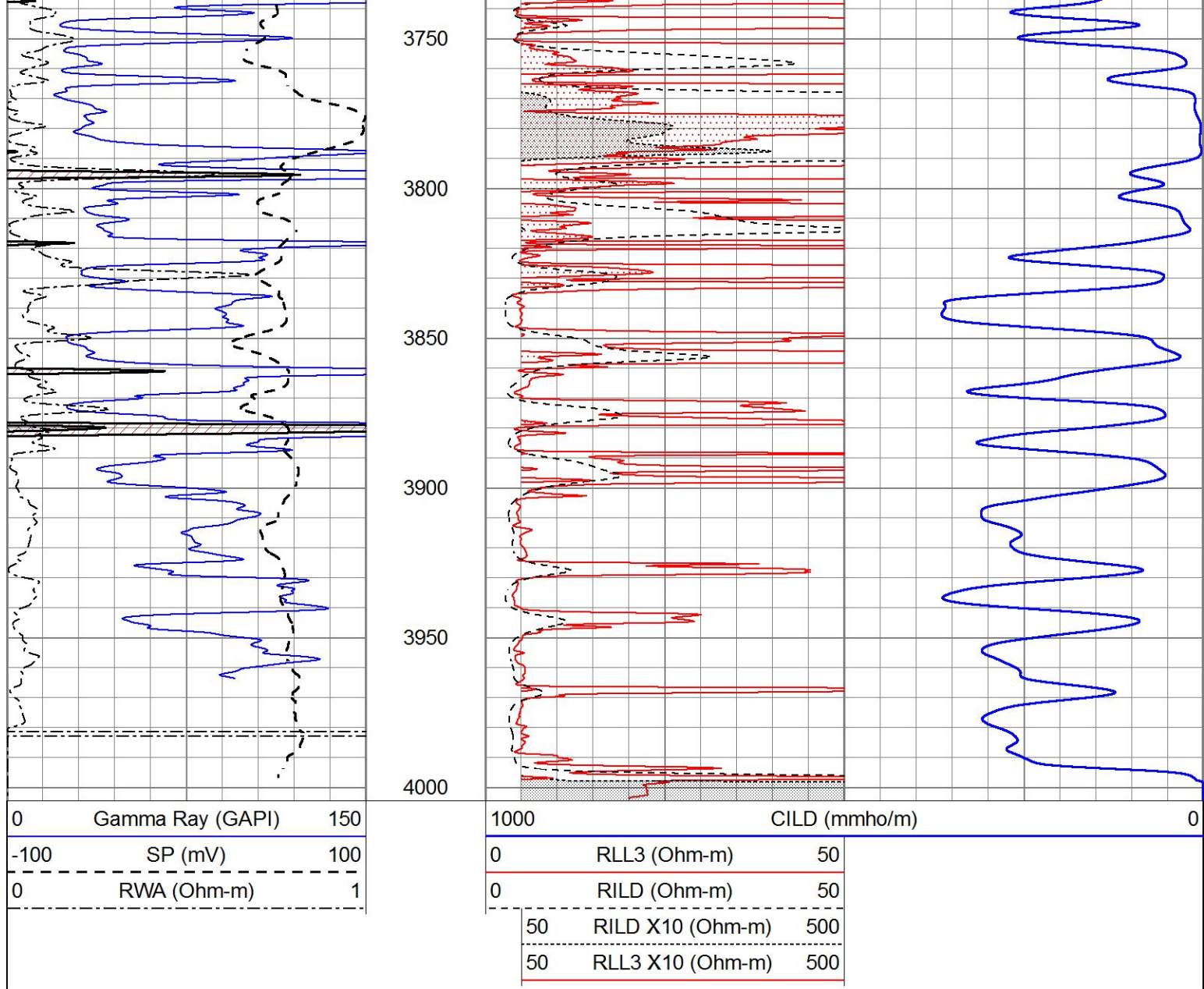
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3100

3150



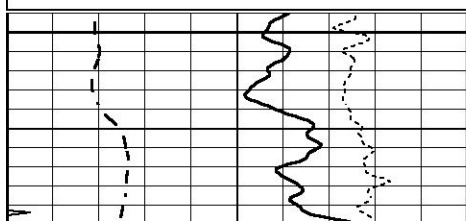




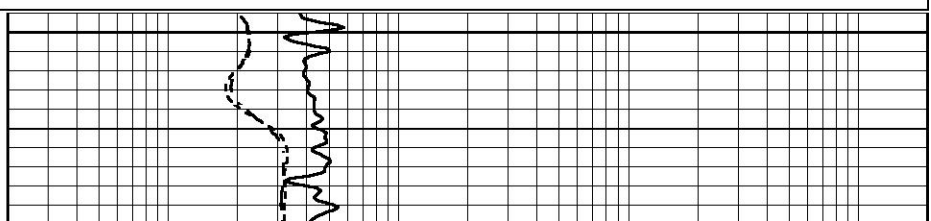
MAIN SECTION

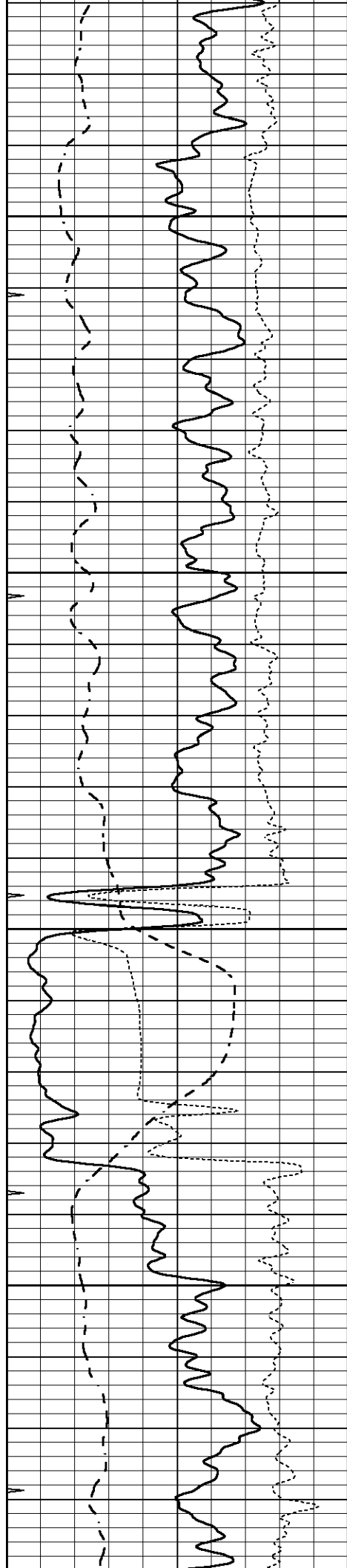
Database File 8954ddn.db
 Dataset Pathname pass3.1M
 Presentation Format _dil
 Dataset Creation Thu Oct 03 17:44:14 2024
 Charted by Depth in Feet scaled 1:240

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			



1800



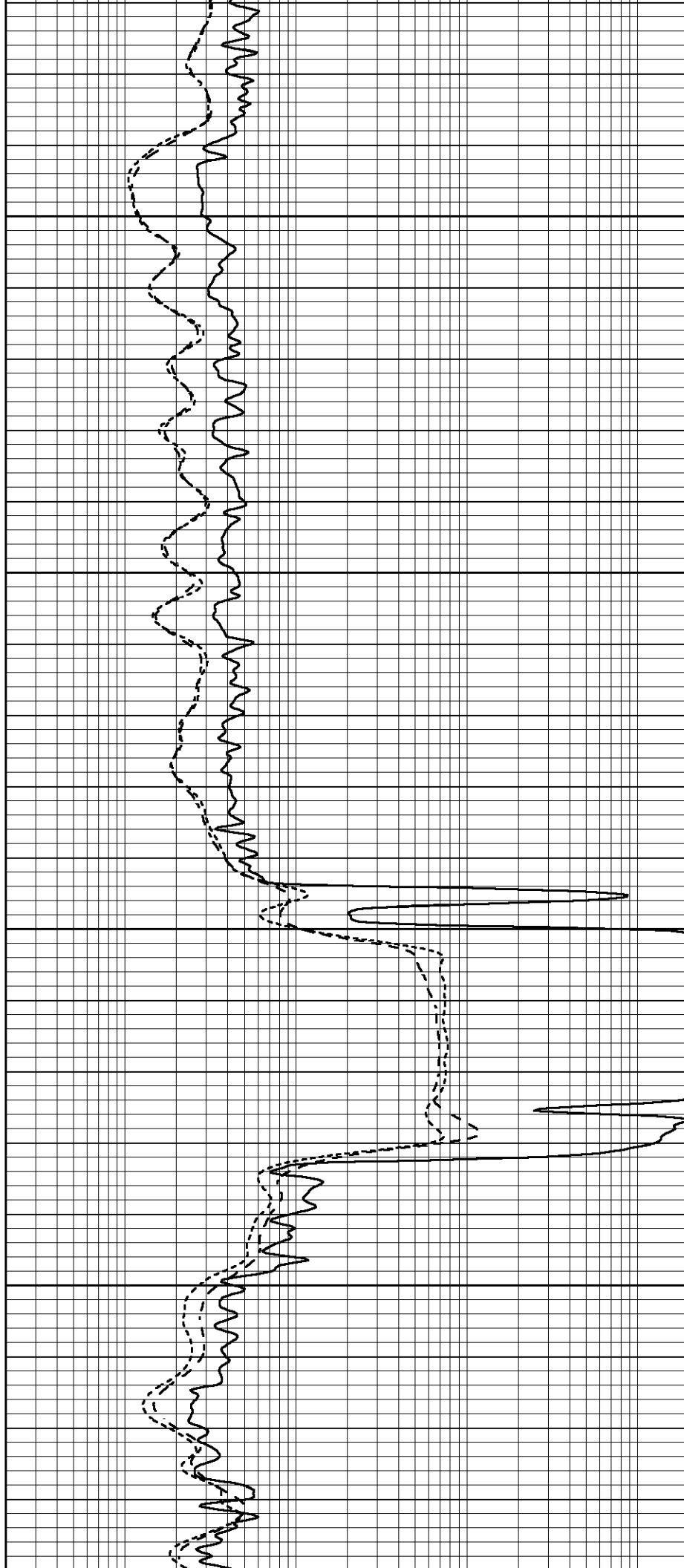


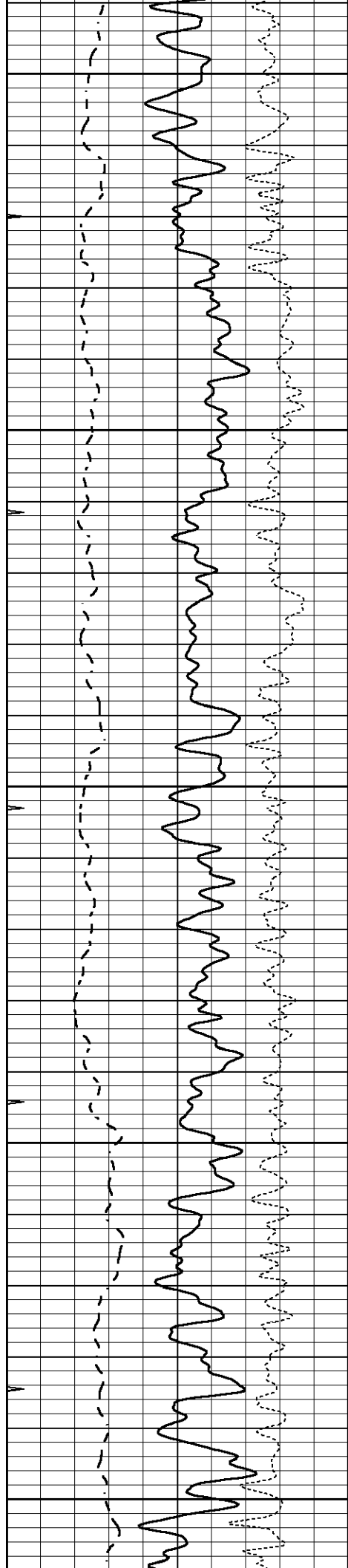
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1900

1950

2000





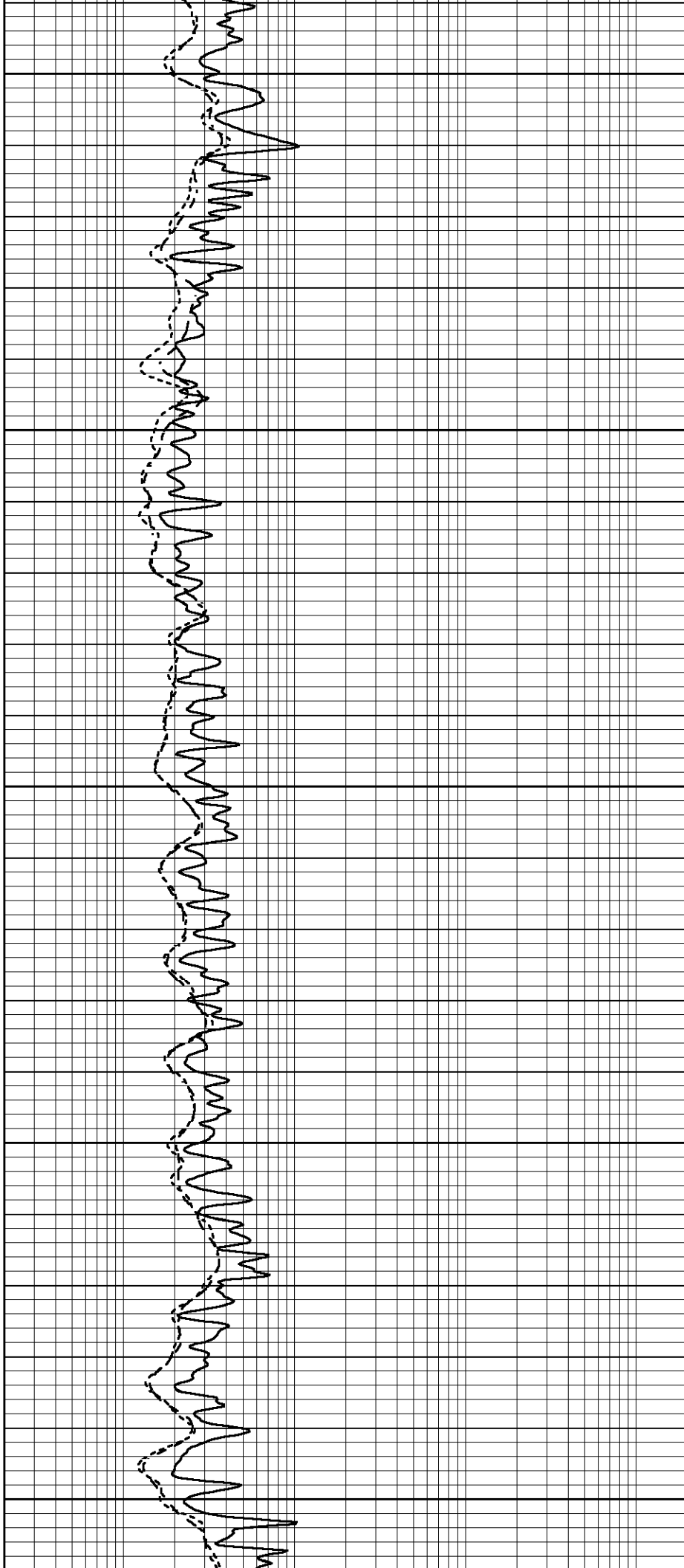
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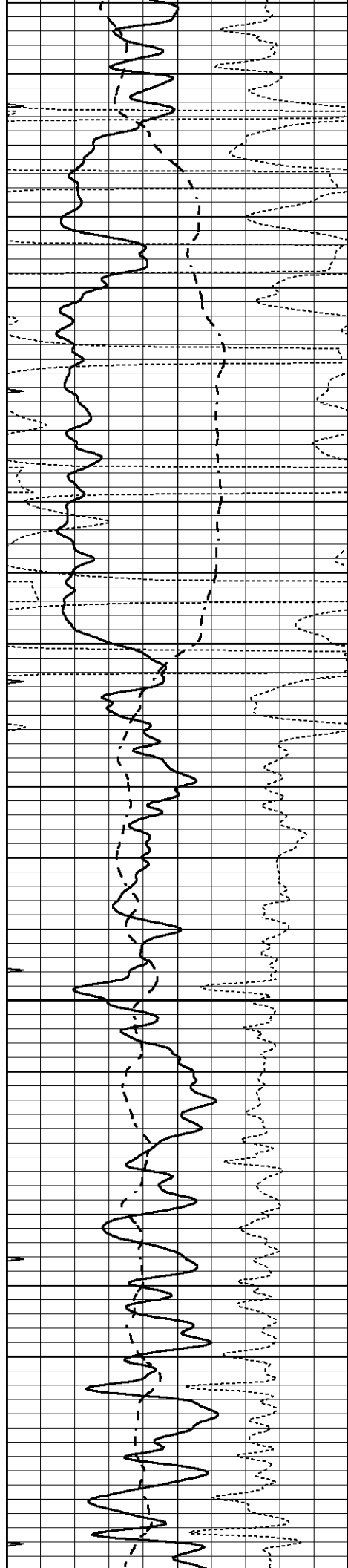
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2150

2200

2250



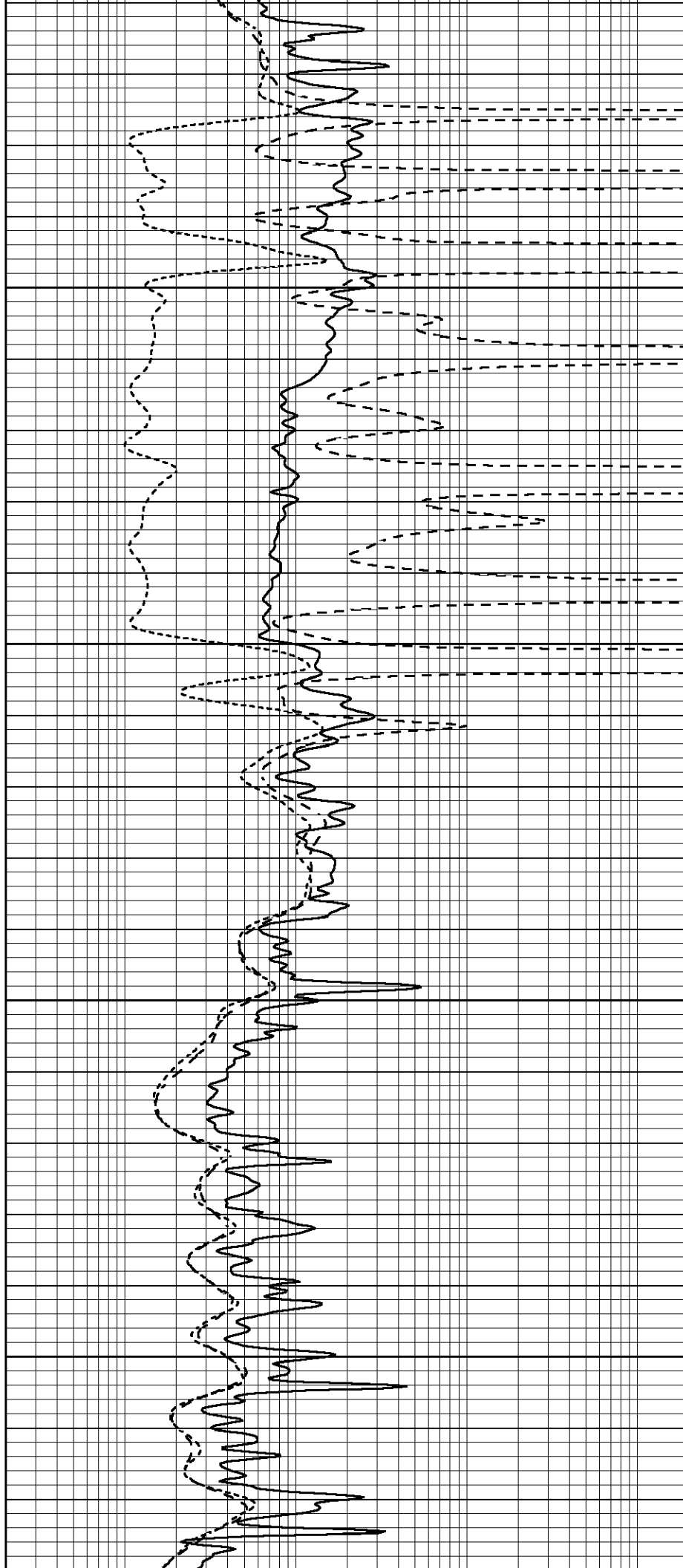


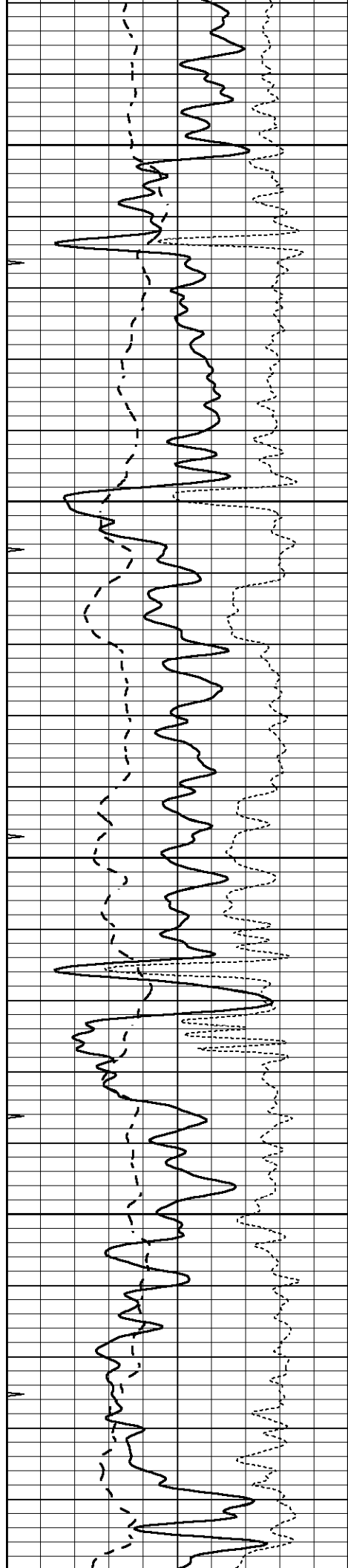
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2350

2400

2450





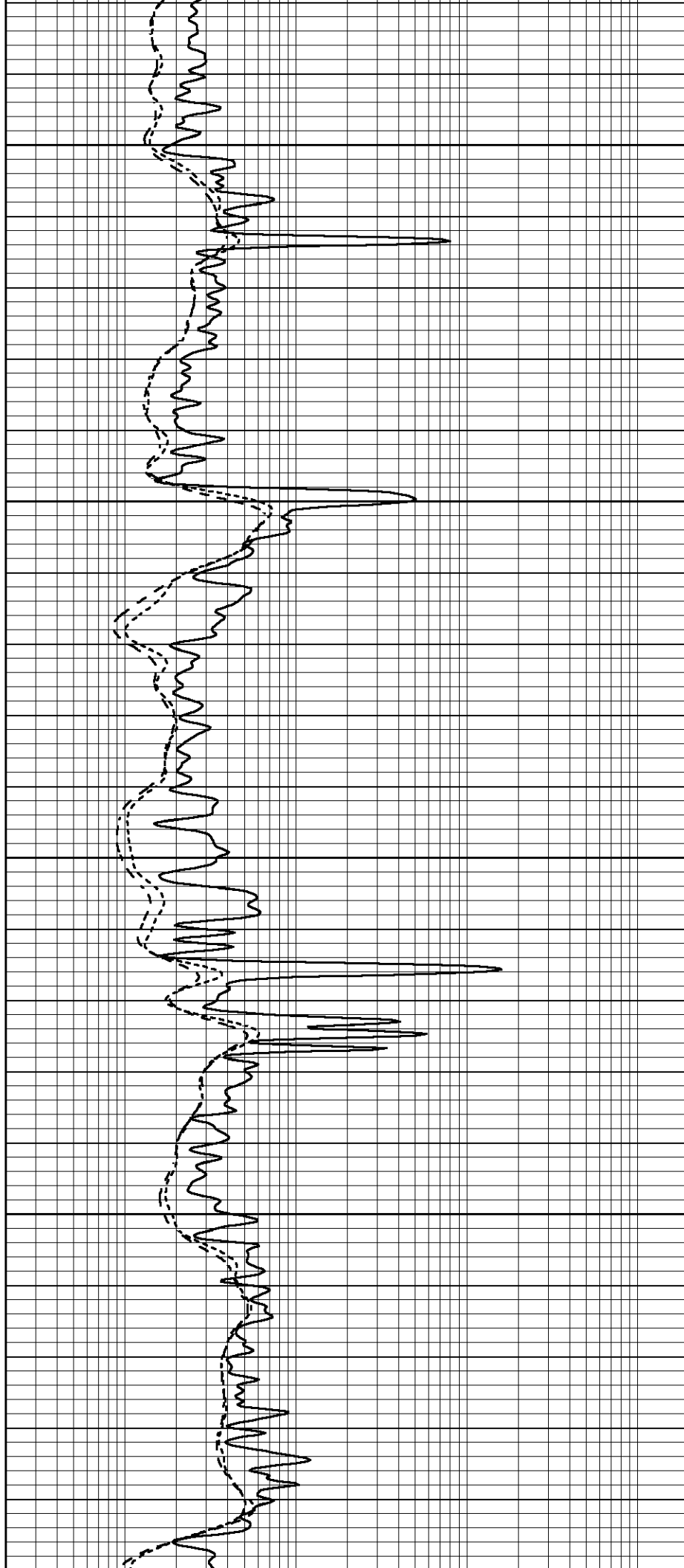
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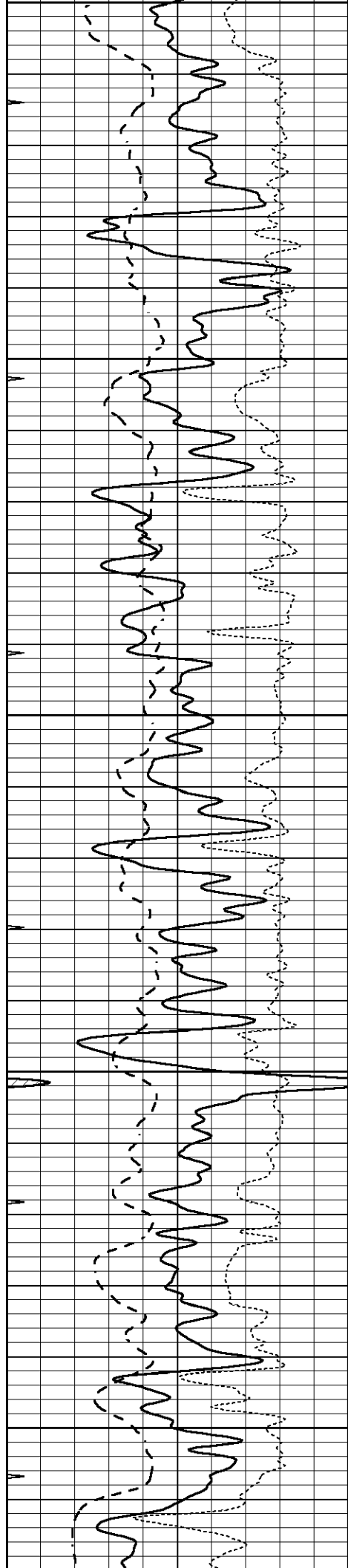
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2600

2650

2700





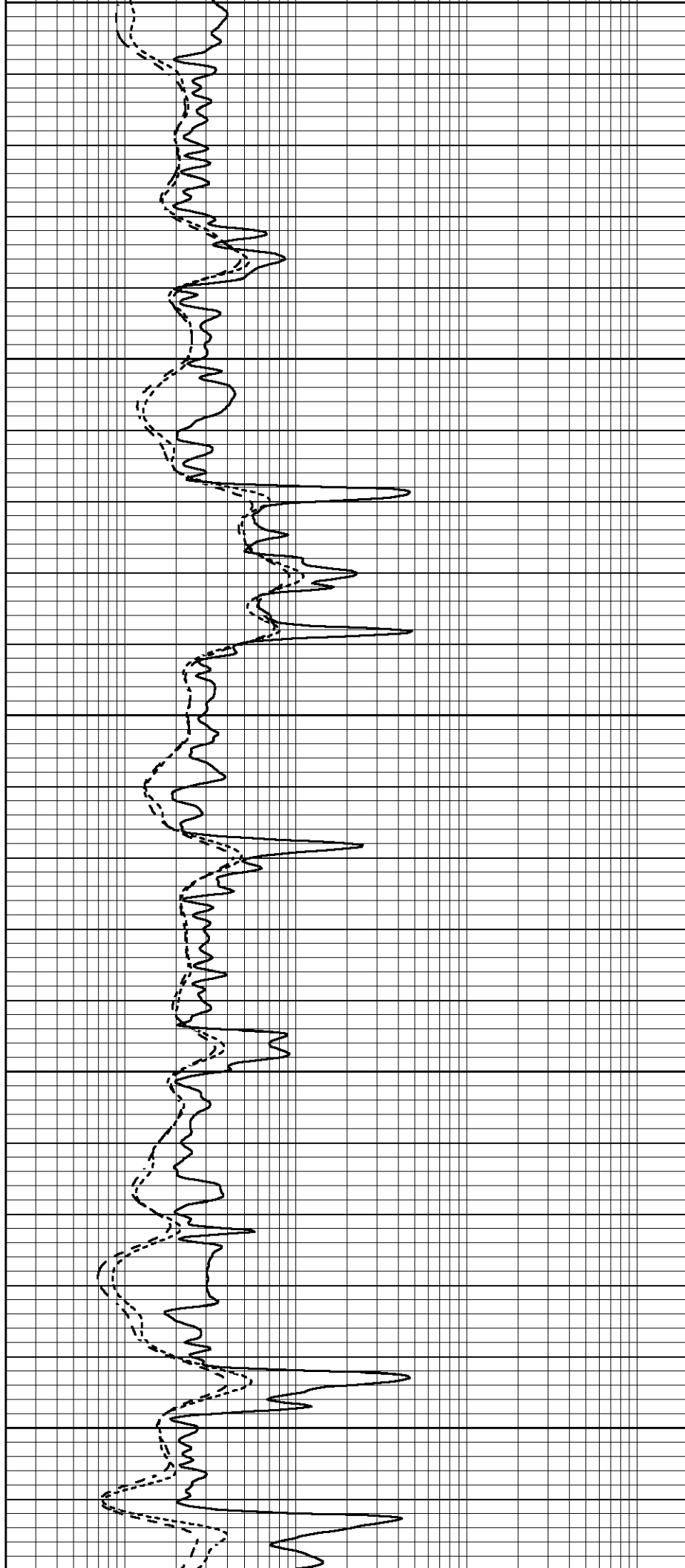
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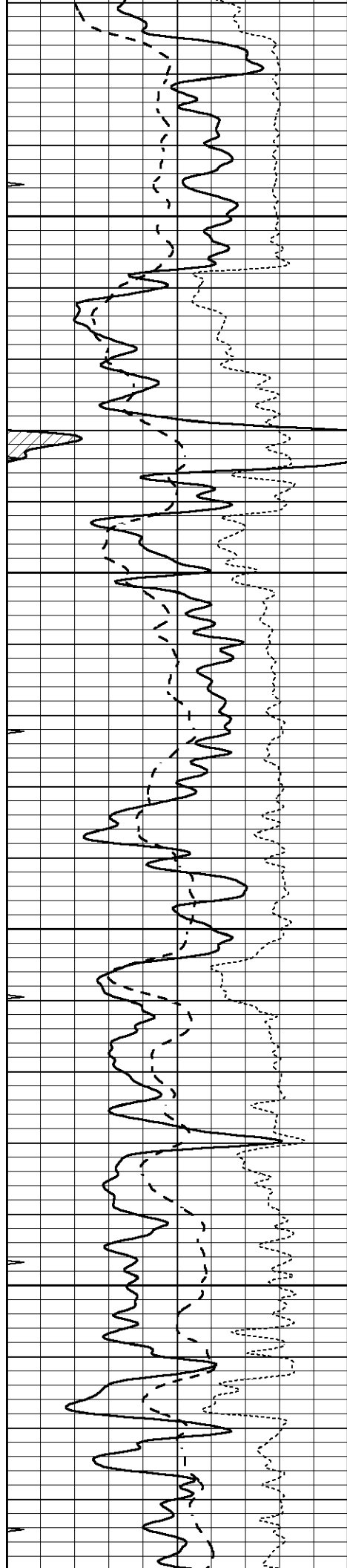
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2800

2850

2900



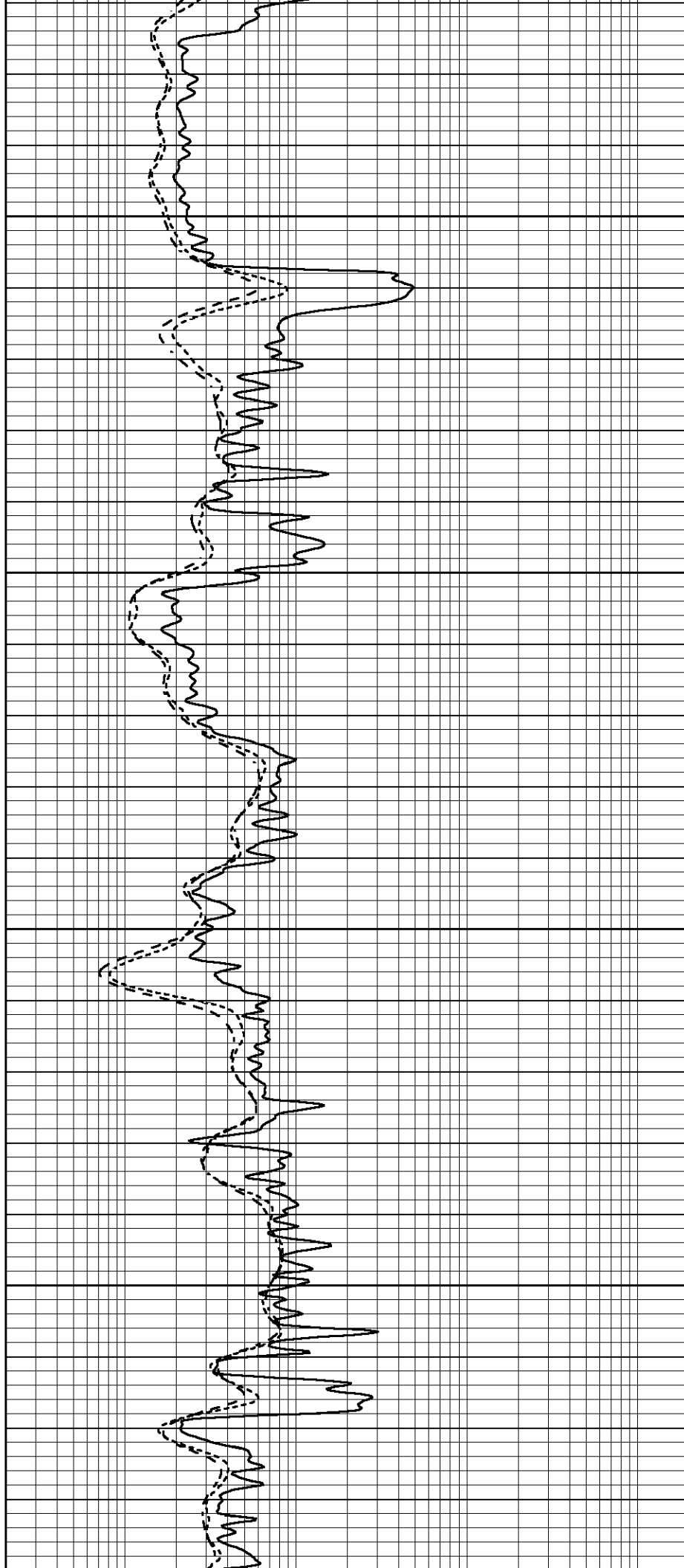


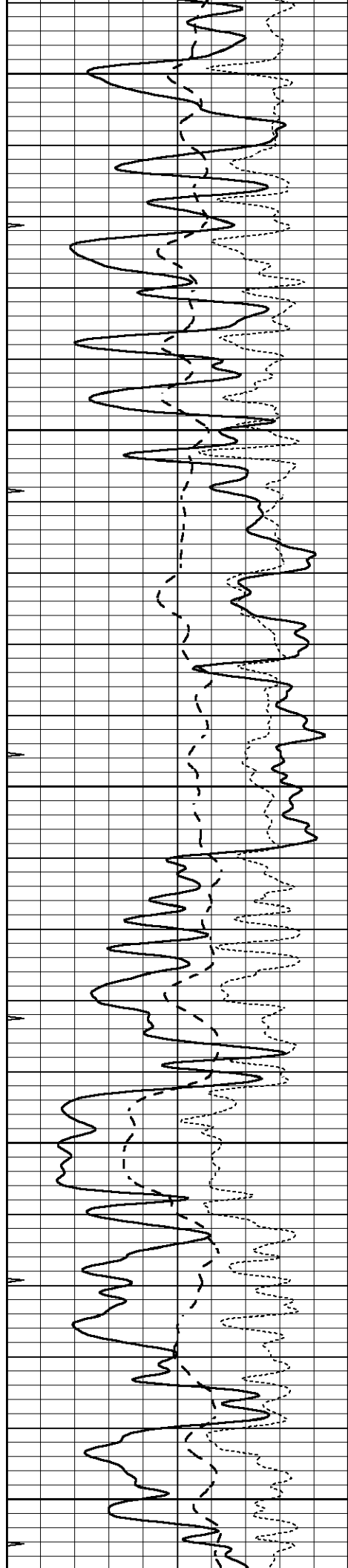
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3000

3050

3100





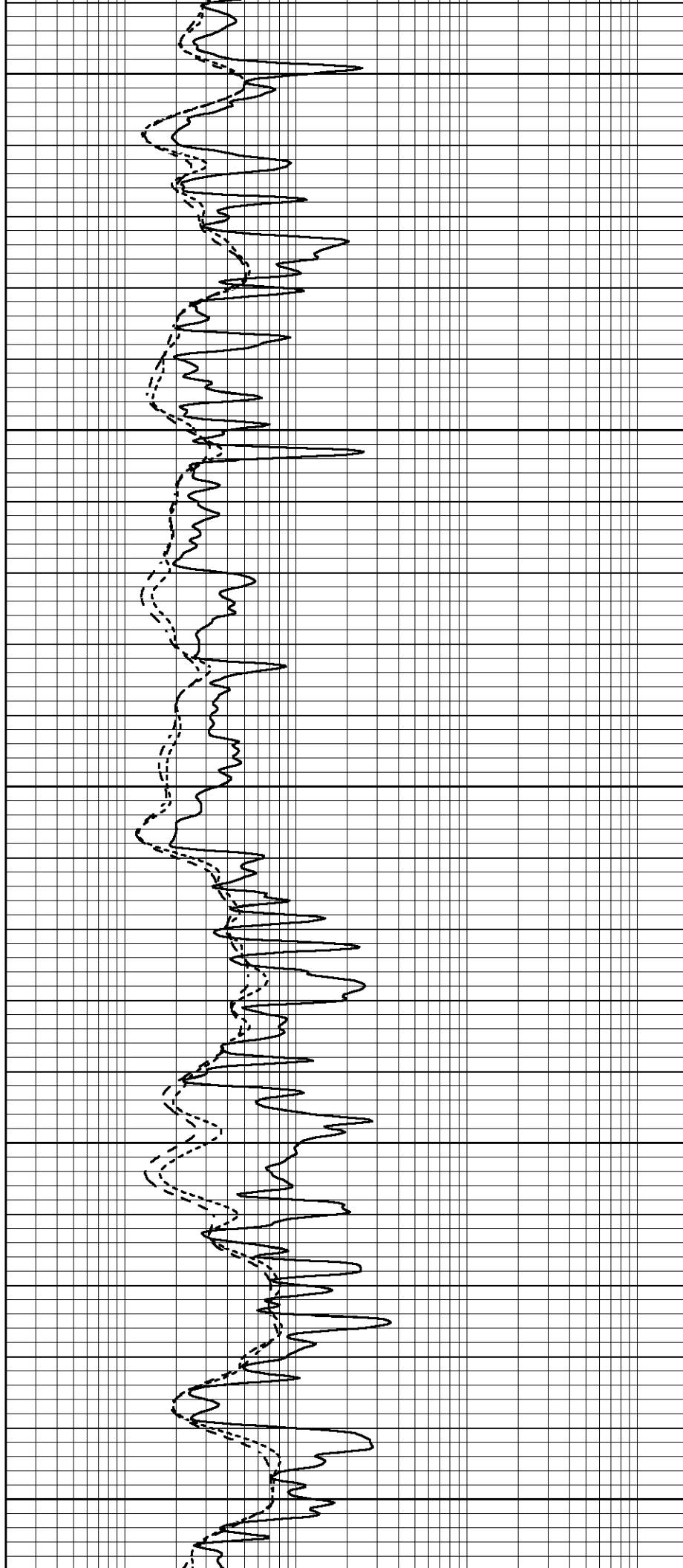
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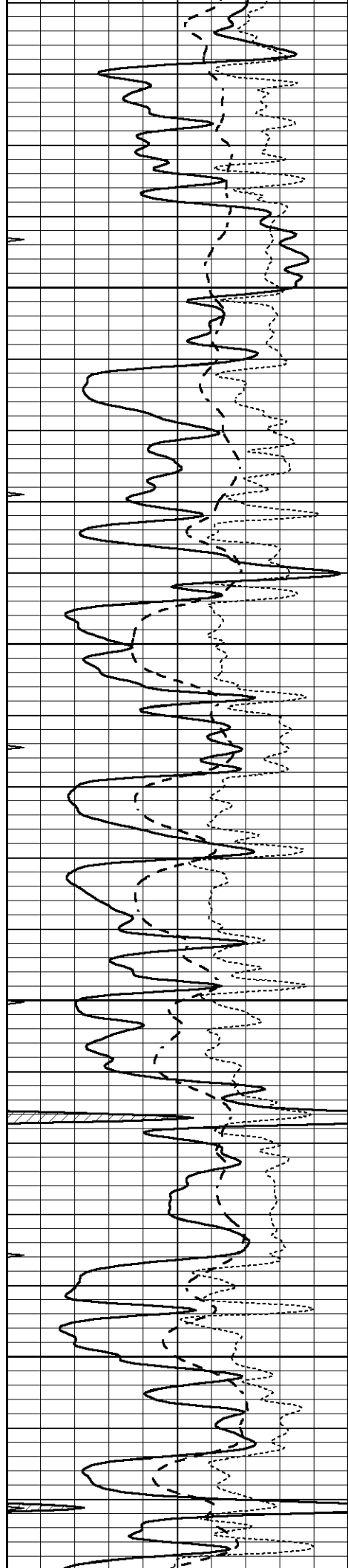
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3250

3300

3350



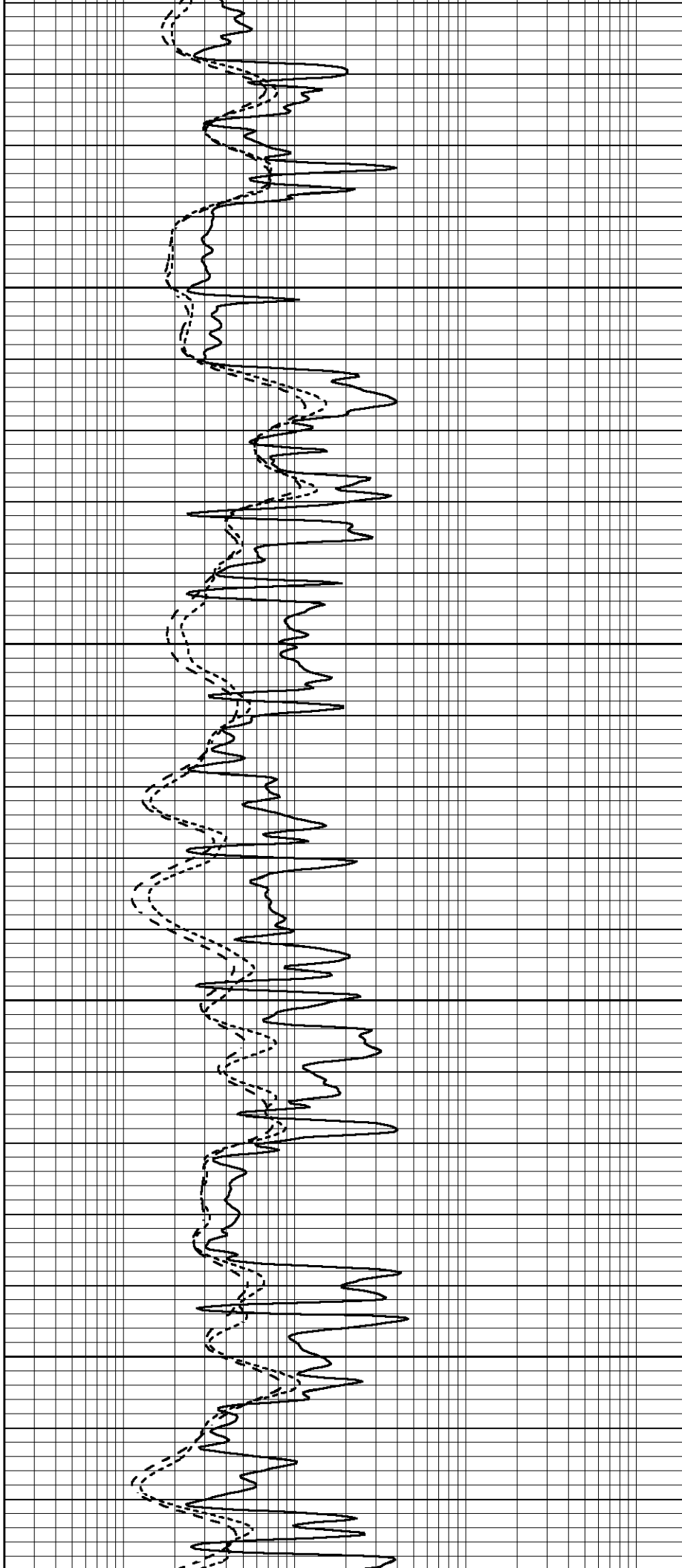


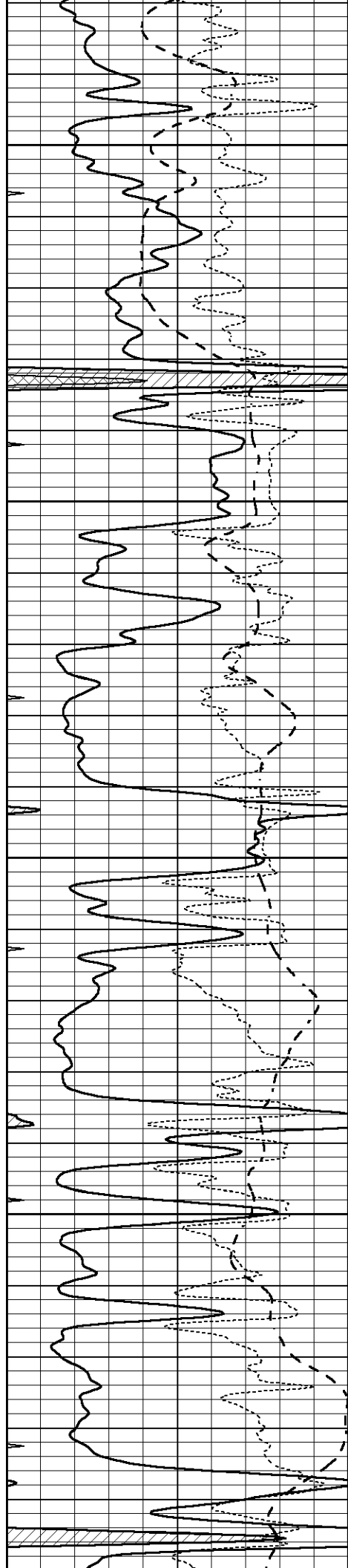
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3450

3500

3550





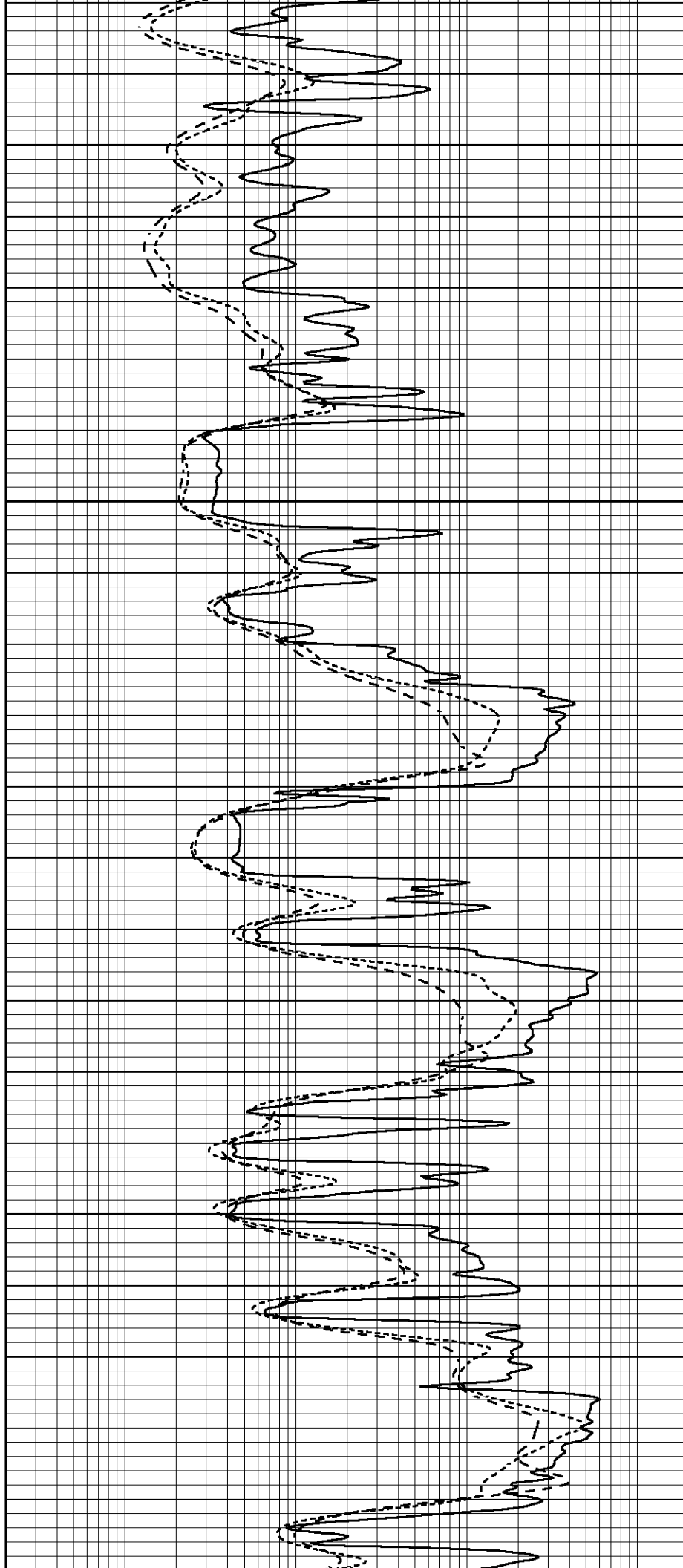
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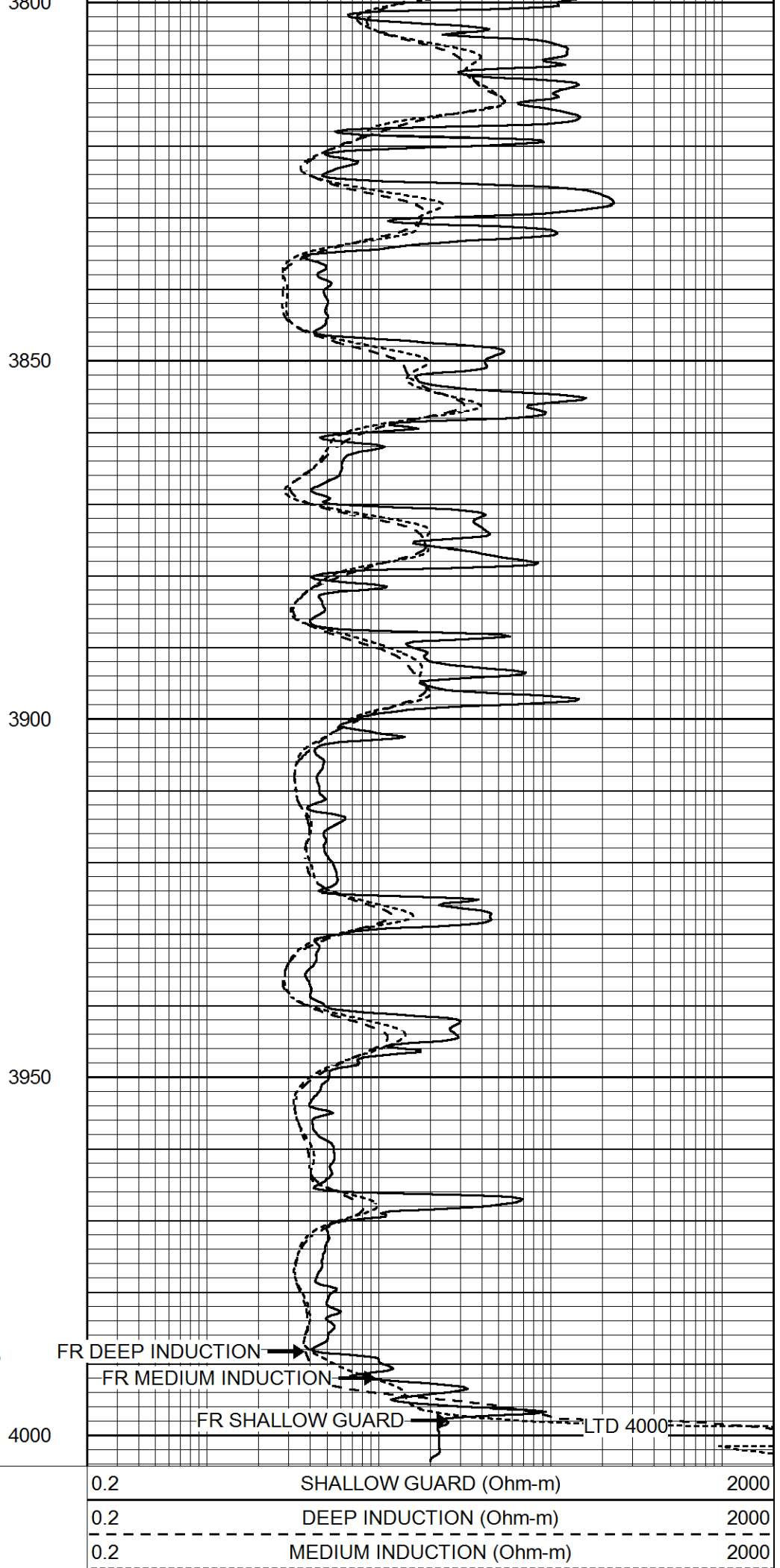
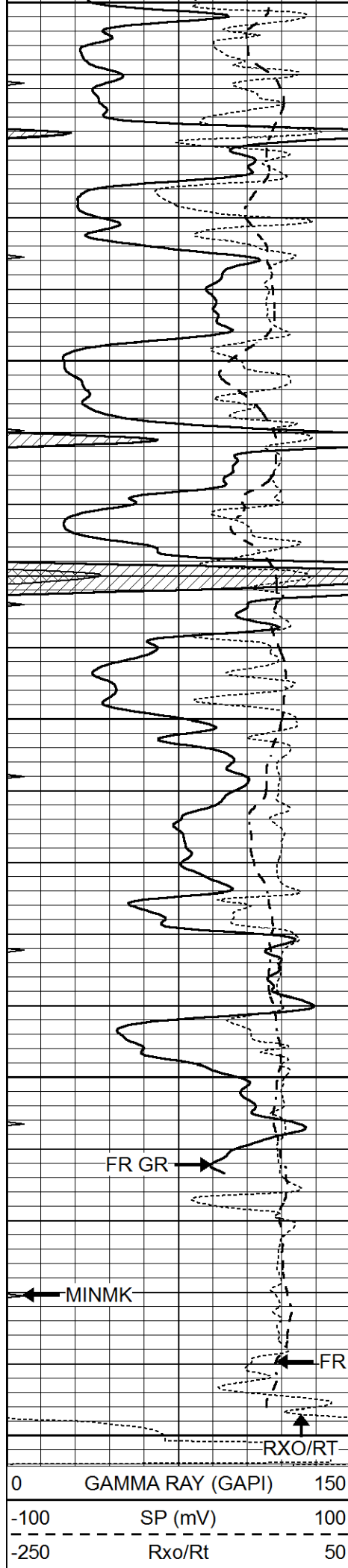
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3700

3750

3800



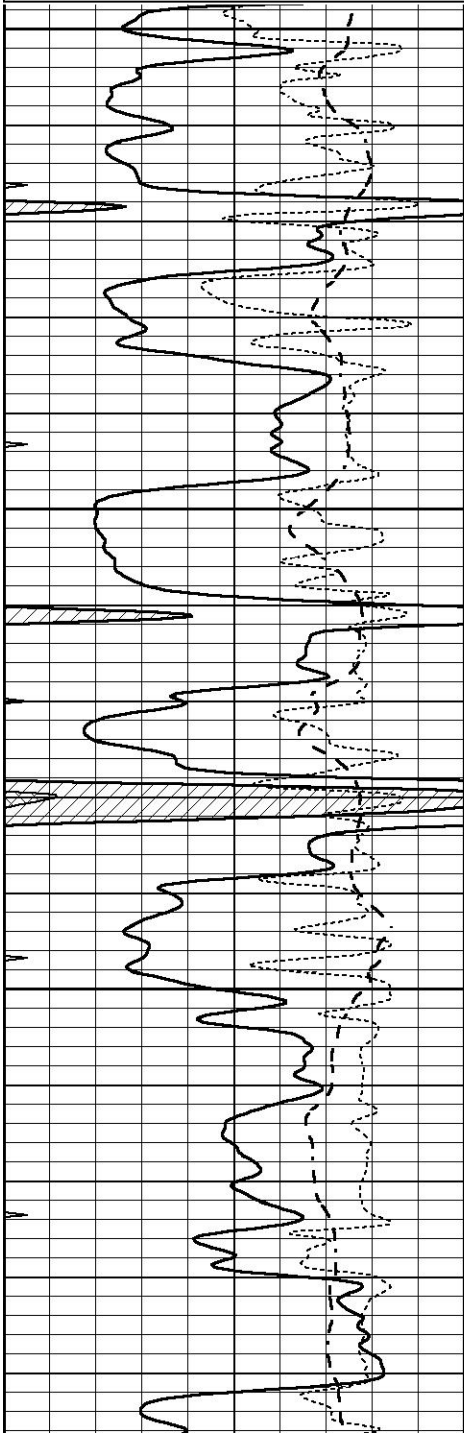




REPEAT SECTION

Database File8954ddn.db
Dataset Pathnamepass2.1R
Presentation Format_dil
Dataset CreationThu Oct 03 17:31:17 2024
Charted byDepth in Feet scaled 1:240

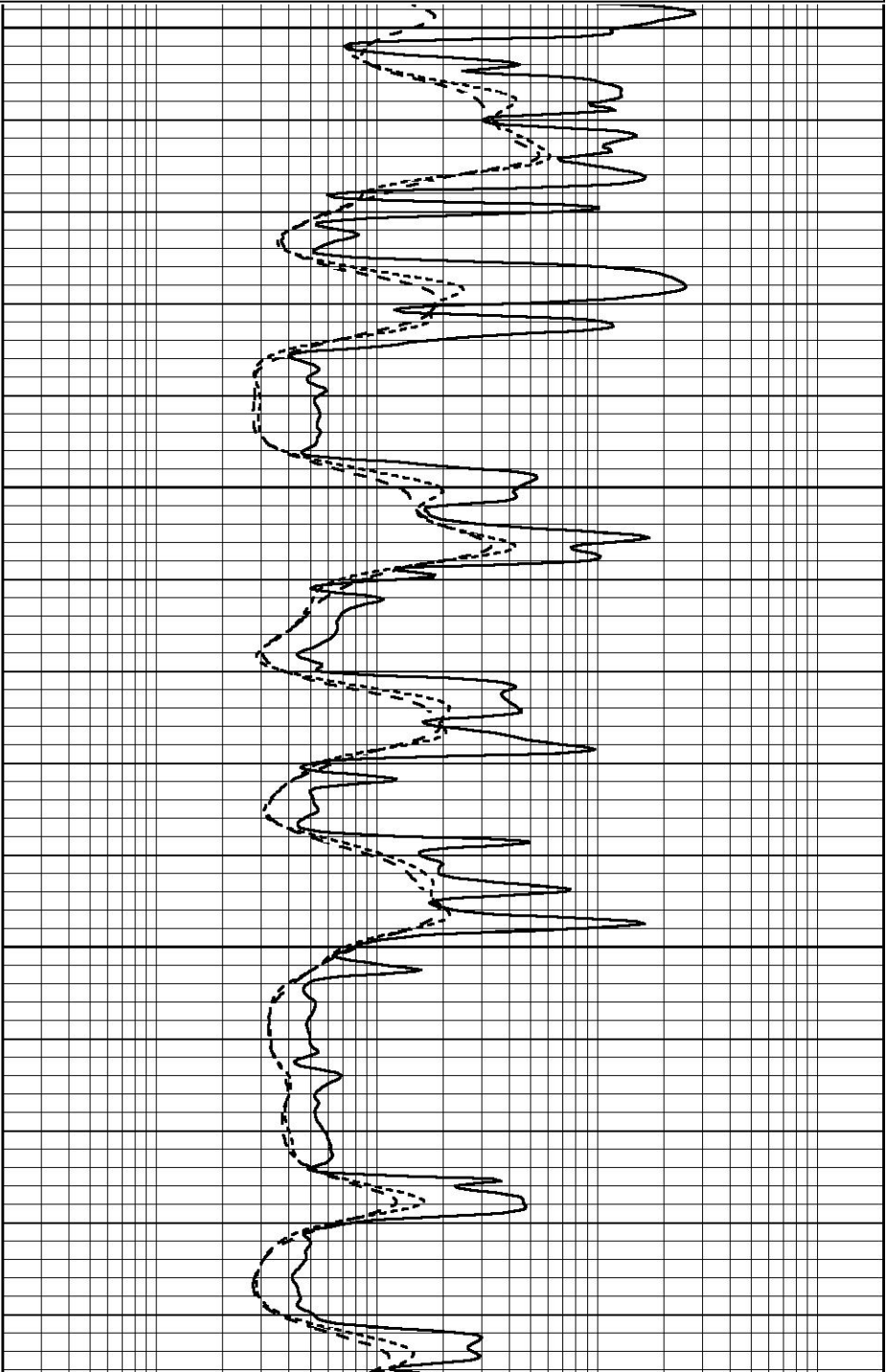
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			

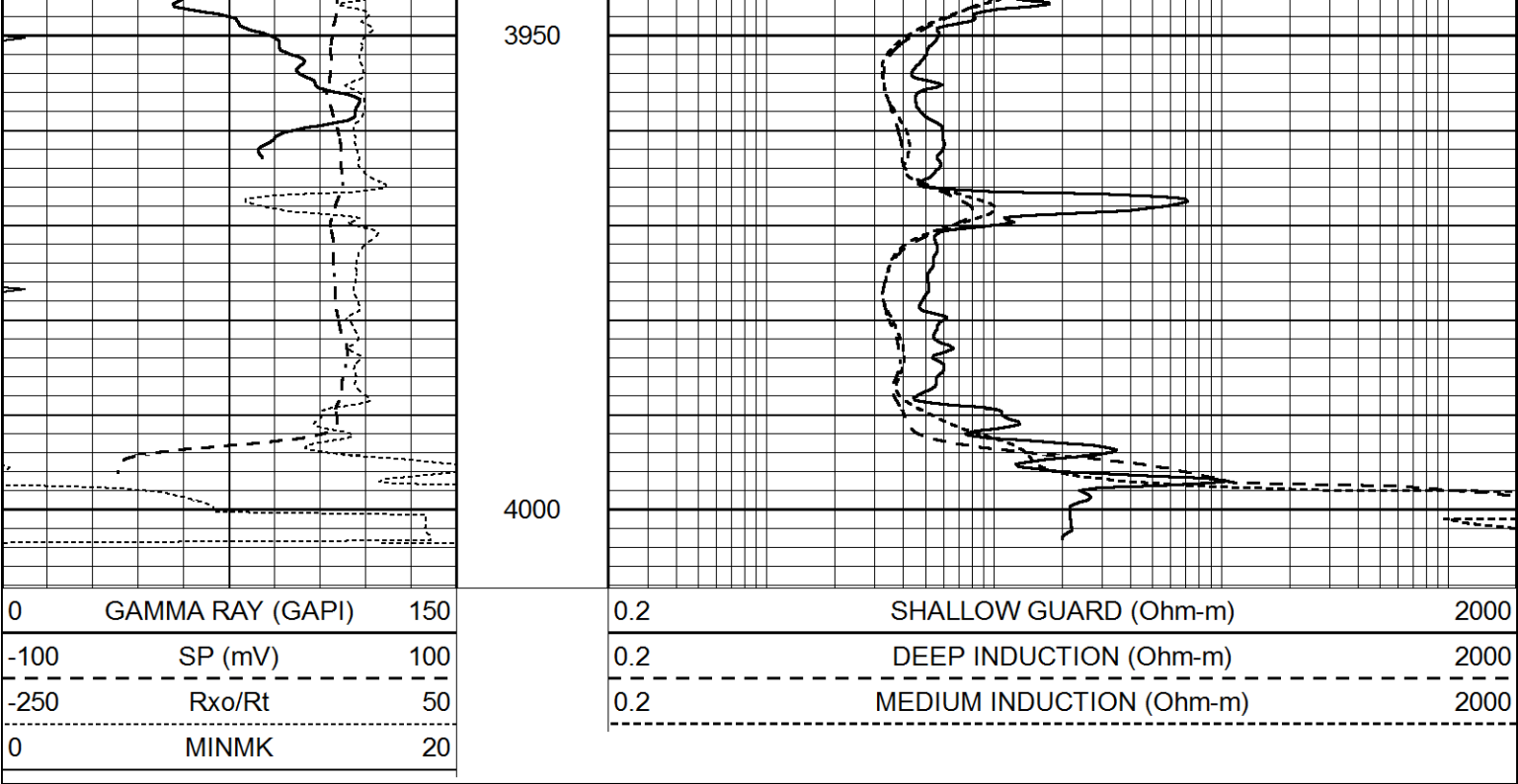


3800

3850

3900





Calibration Report									
Database File	8954ddn.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Thu Oct 03 17:44:14 2024								
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Thu Oct 03 16:51:45 2024					
Downhole Cal Performed:				Mon Aug 14 00:39:25 2023					
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	680.000	6.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	-6.000	
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			
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: 004 Model: PRB

Master Calibration			Performed Tue Aug 02 11:29:35 2022					
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1154.2	10019.5	3137.9	2795.6	cps			
Window 2	1054.4	8597.6	2733.4	2469.5	cps			
Window 3	902.3	5241.4	1832.1	1719.3	cps			
Window 4	251.9	261.1	255.8	252.9	cps			
Long Space	0.0	7543.2	1679.0	1415.0	cps			
Short Space	4.4	2049.3	1321.7	1116.8	cps			
Rho		1.7100	2.5900	0.0000	g/cc			
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio	: 0.562			
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept	: -17.2			

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

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:	070559		
Tool Model:	OPEN_GR		
Performed:	Fri Aug 23 11:44:05 2024		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	