



DUAL INDUCTION LOG

Company	WOOLSEY OPERATING COMPANY, LLC	Company	WOOLSEY OPERATING COMPANY, LLC.
Well	HUXMAN #1	Well	HUXMAN #1
Field	WINSINGER	Field	WINSINGER
County	McPHERSON	County	McPHERSON
State	KANSAS	State	KANSAS
Location:	API # : 15-113-21395-0000 1550' FSL & 1750' FEL E2 W2 SE	Other Services CDL/CNL/PE	
Permanent Datum	SEC 19 TWP 21S RGE 1W	Elevation	
Log Measured From	GROUND LEVEL	K.B. 1500	
Drilling Measured From	KELLY BUSHING 13' A.G.L. KELLY BUSHING	D.F. 1498	
		G.L. 1487	
Date	9/20/19		
Run Number	ONE		
Depth Driller	3450		
Depth Logger	3450		
Bottom Logged Interval	3448		
Top Log Interval	00		
Casing Driller	8 5/8" @ 265'		
Casing Logger	265'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES PPM	
Density / Viscosity	9.4/54		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30 @ 89F		
Rmf @ Meas. Temp	0.97 @ 89F		
Rmc @ Meas. Temp	1.56 @ 89F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.04 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	111F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	BILL KLAVER		

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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.

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS

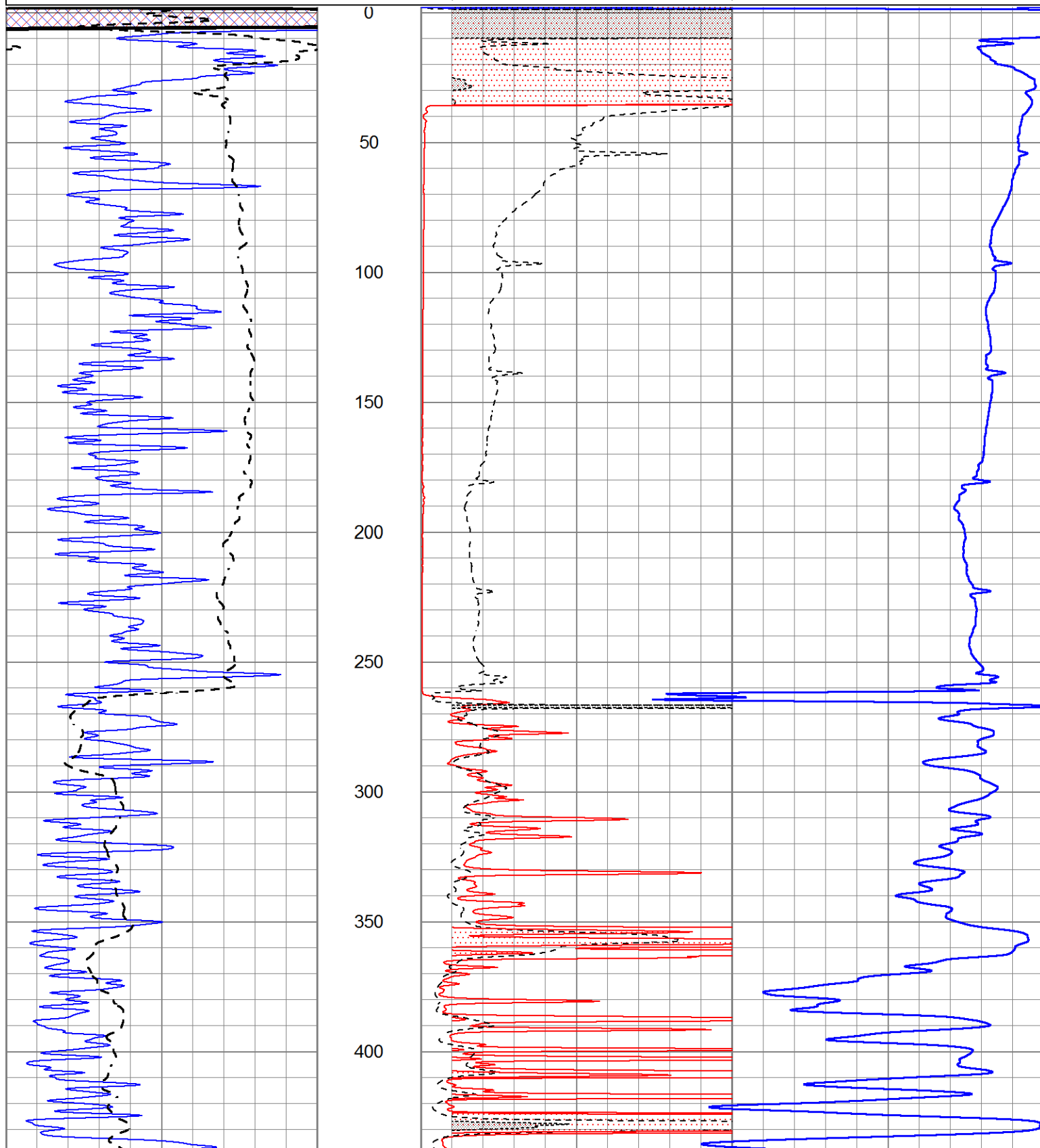
MOUNDRIDGE, KS. - I 35 & EXIT 46 (ARROWHEAD RD.)
3/4 EAST - NORTH INTO

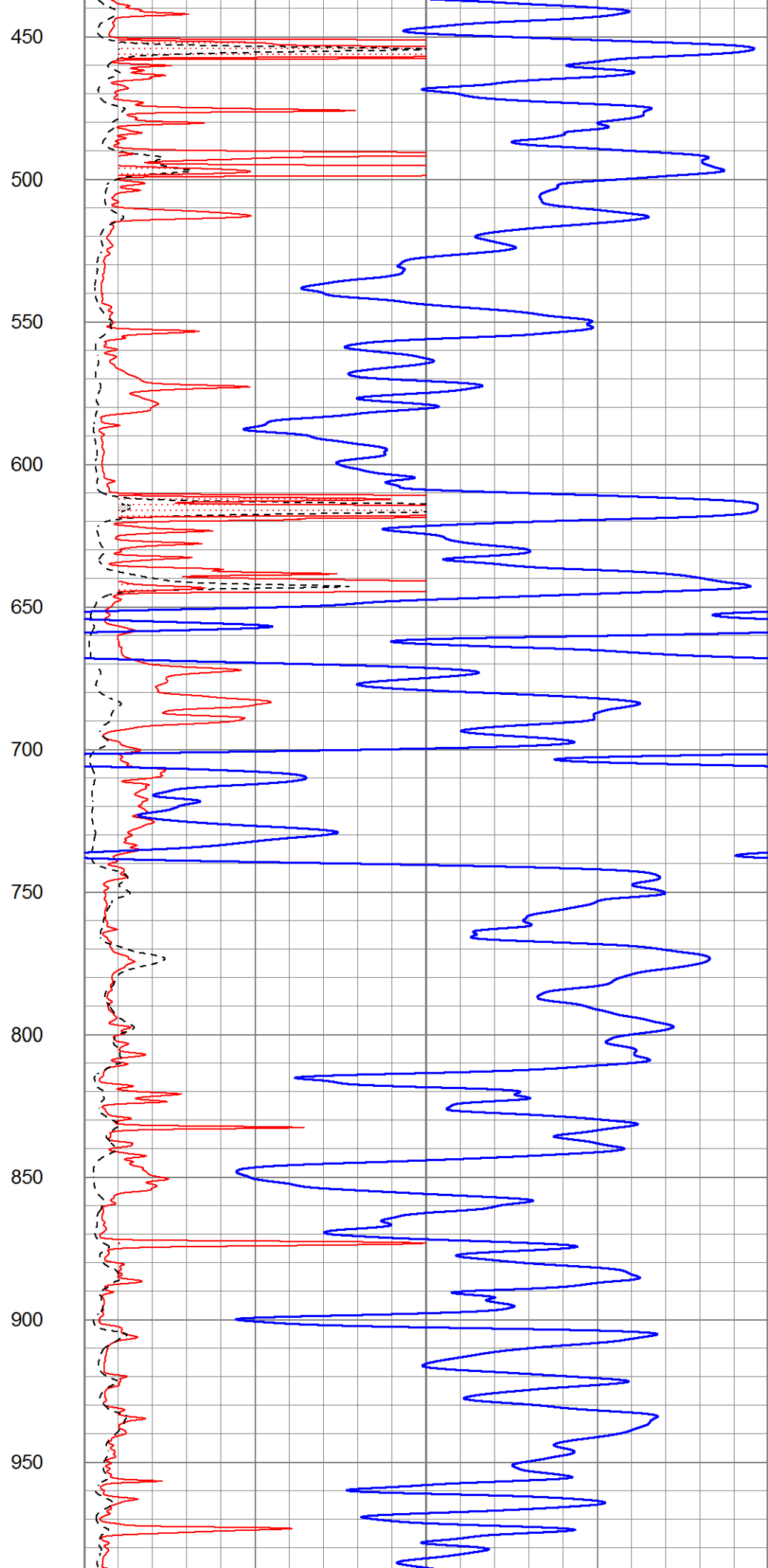
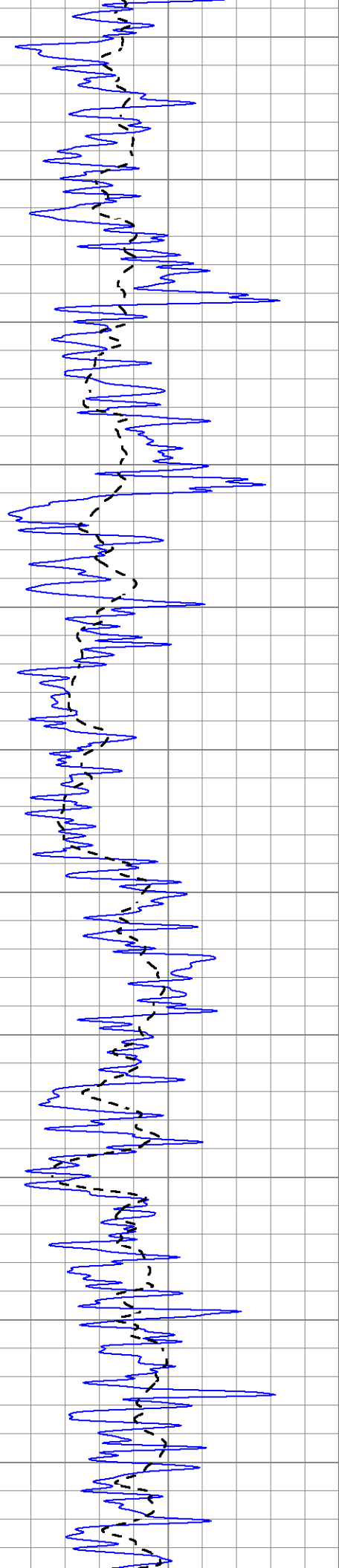


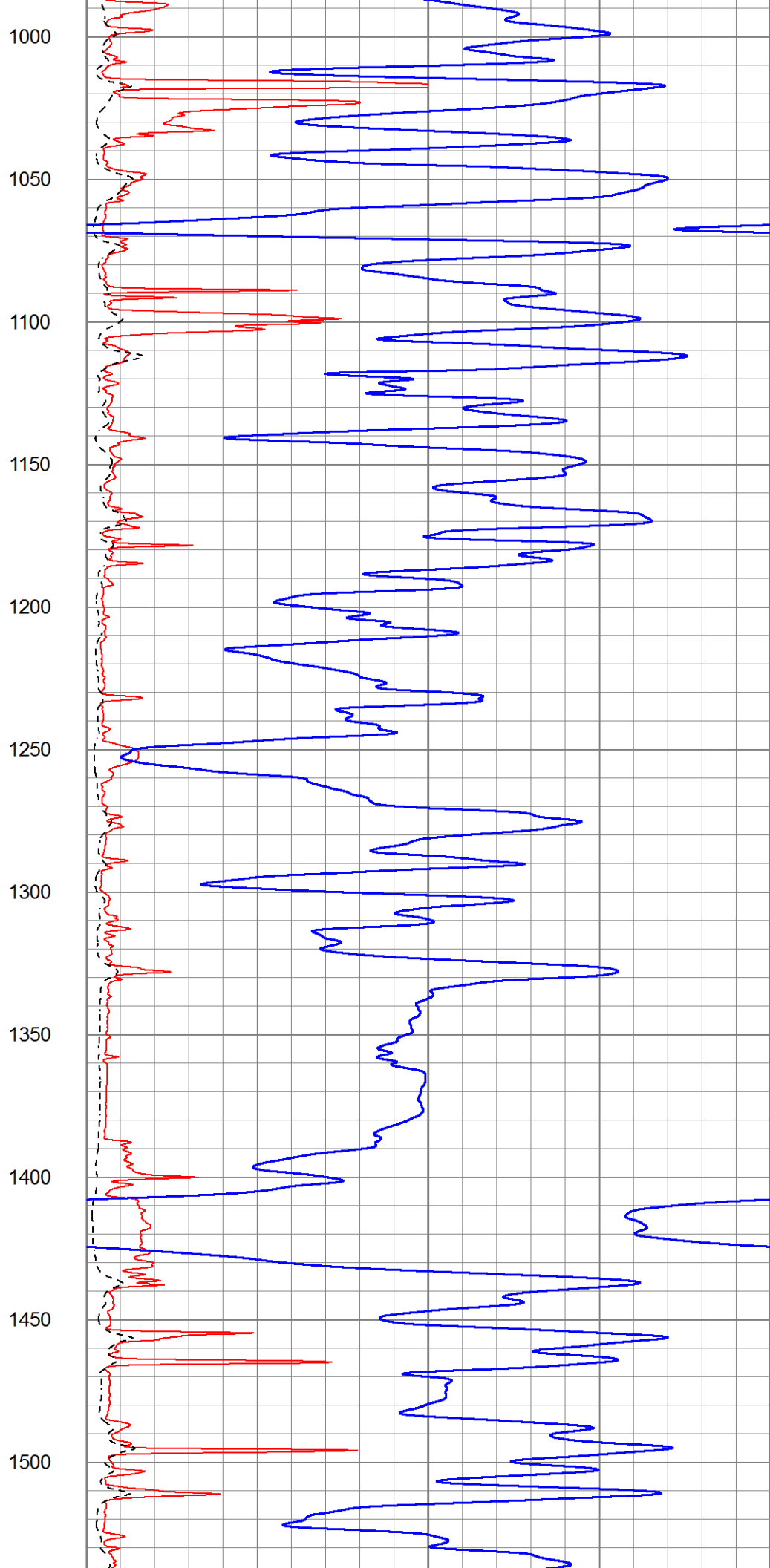
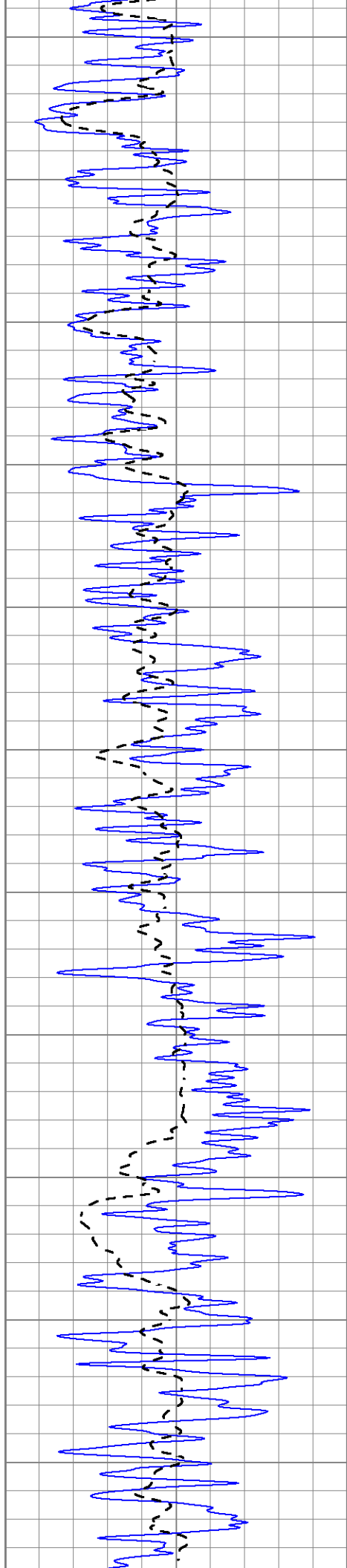
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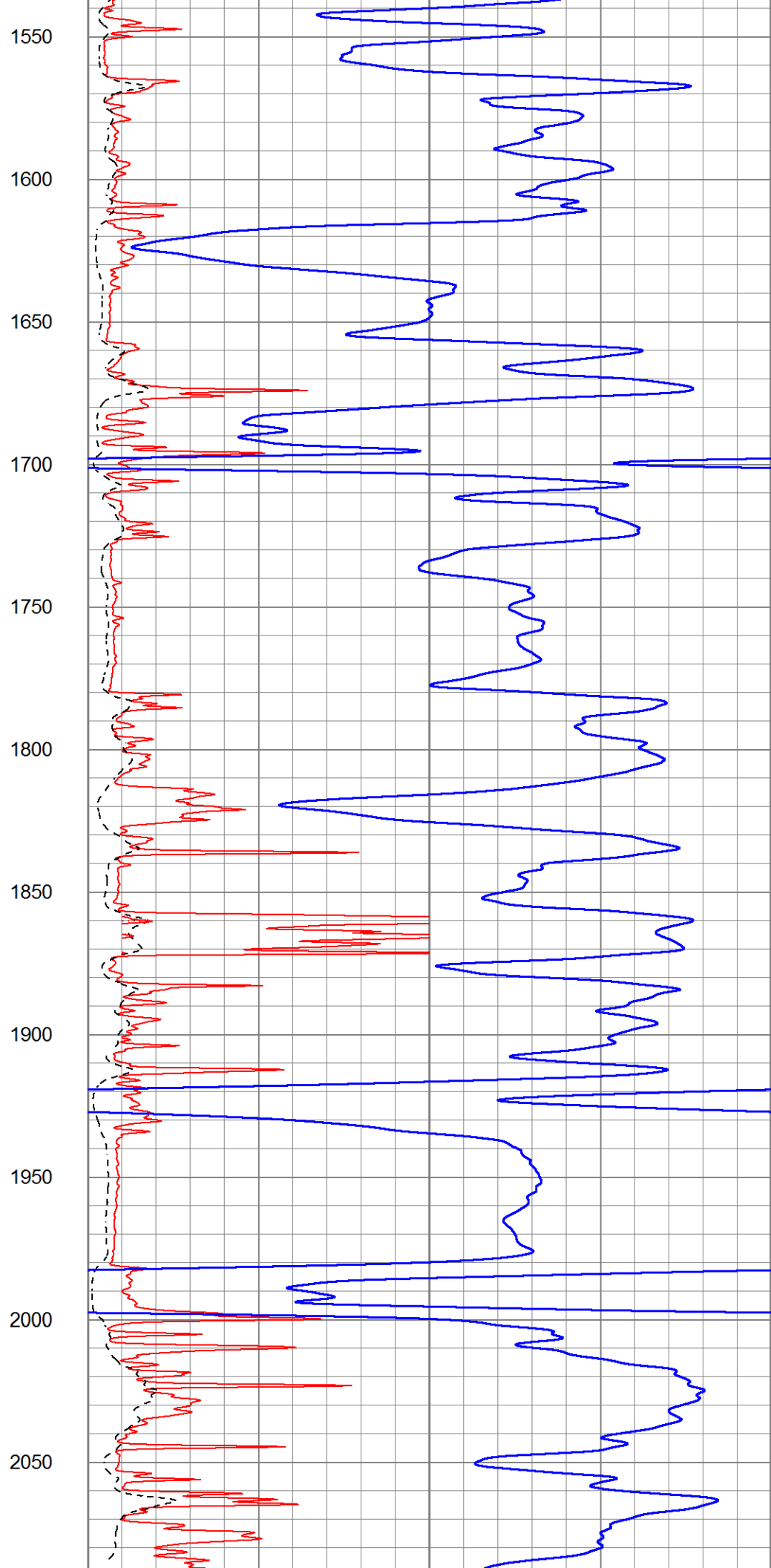
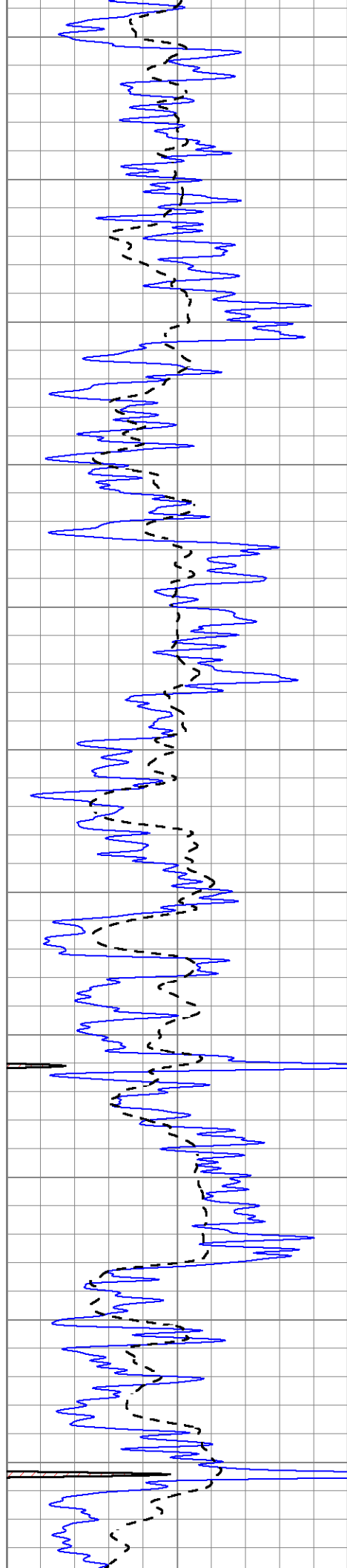
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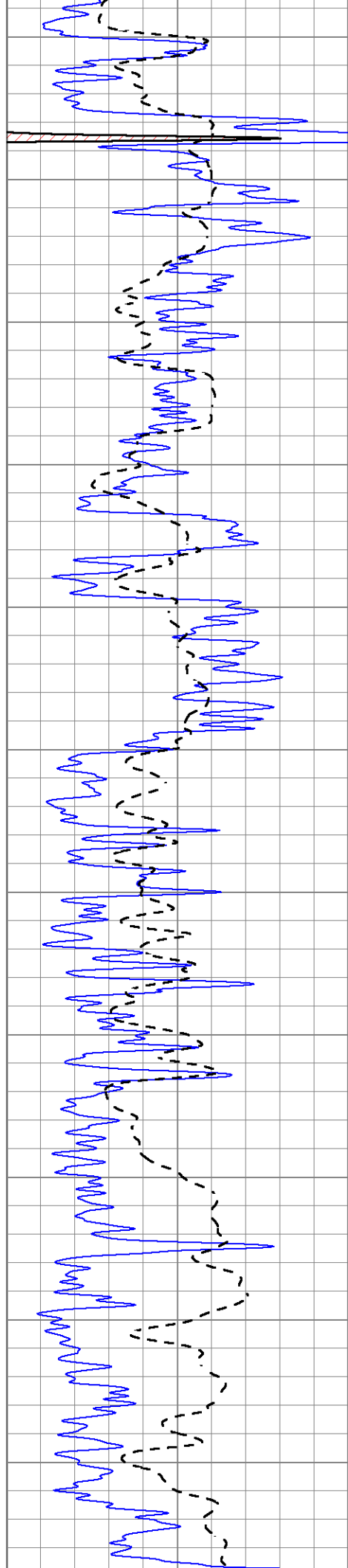
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

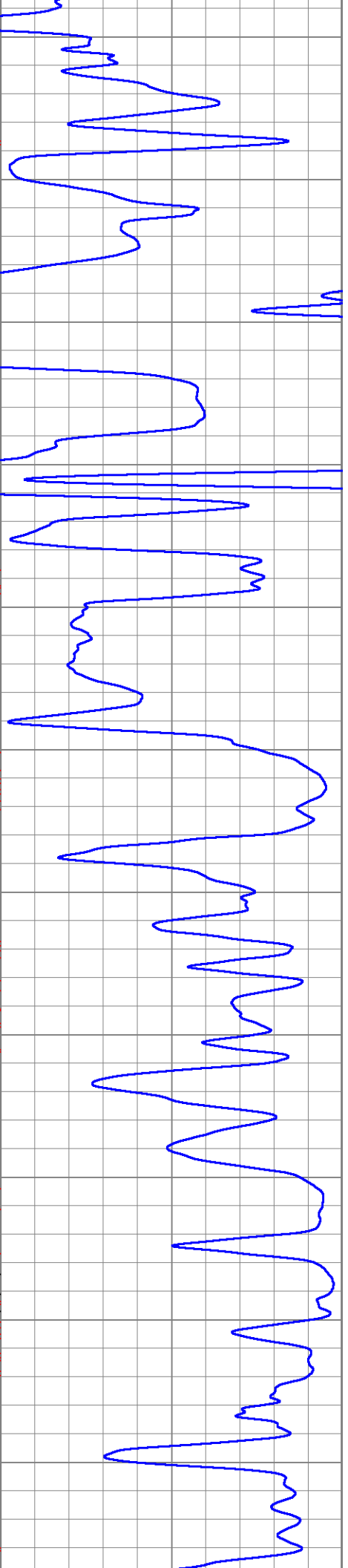
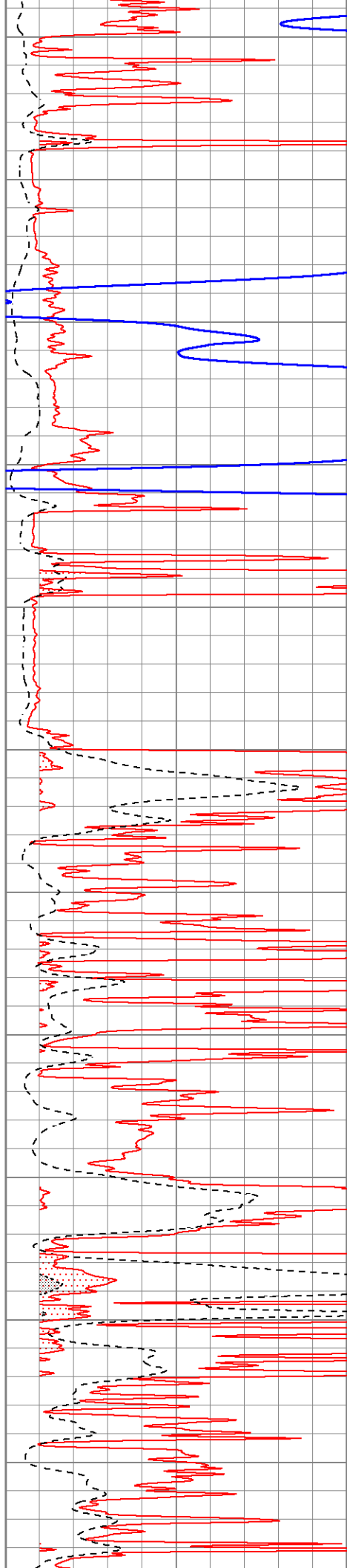
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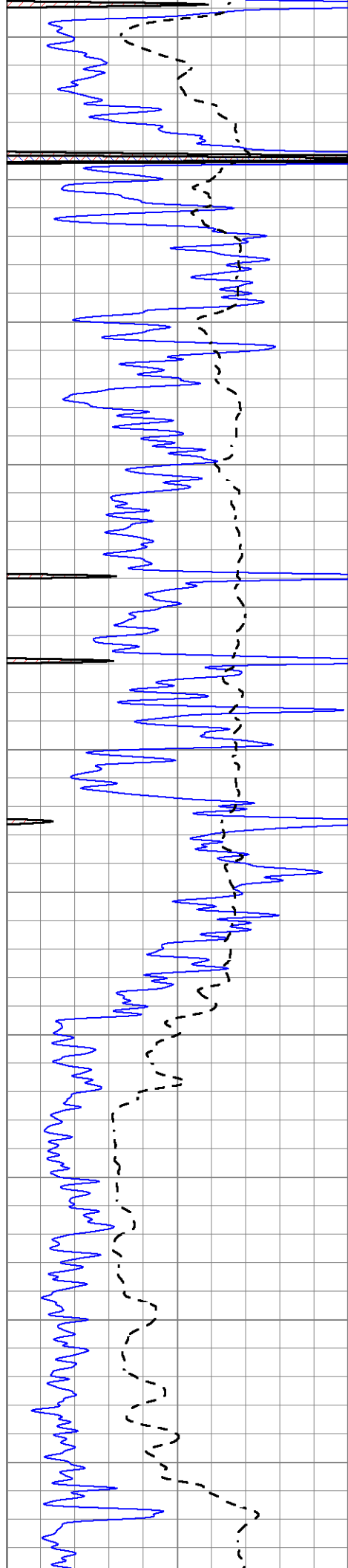
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2550

2600





2650

2700

2750

2800

2850

2900

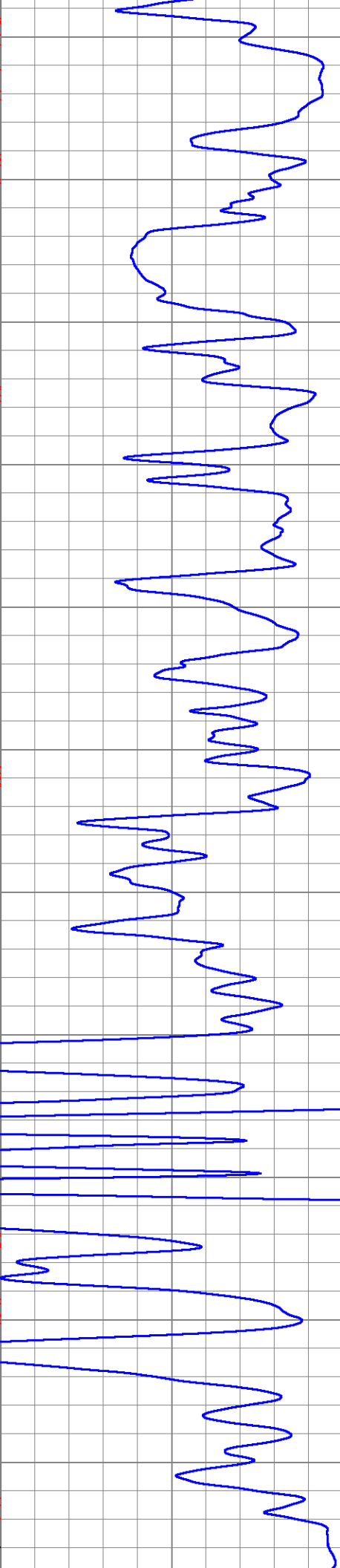
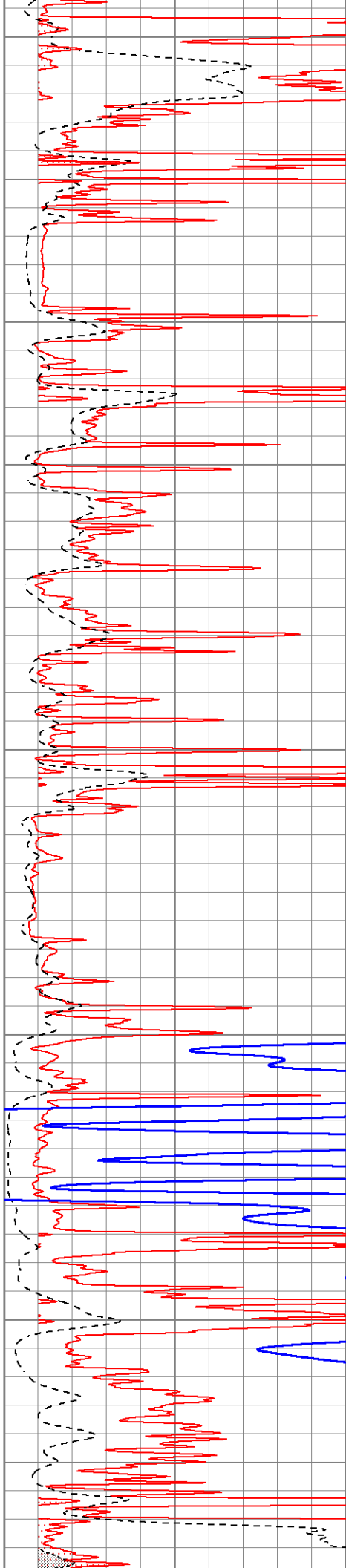
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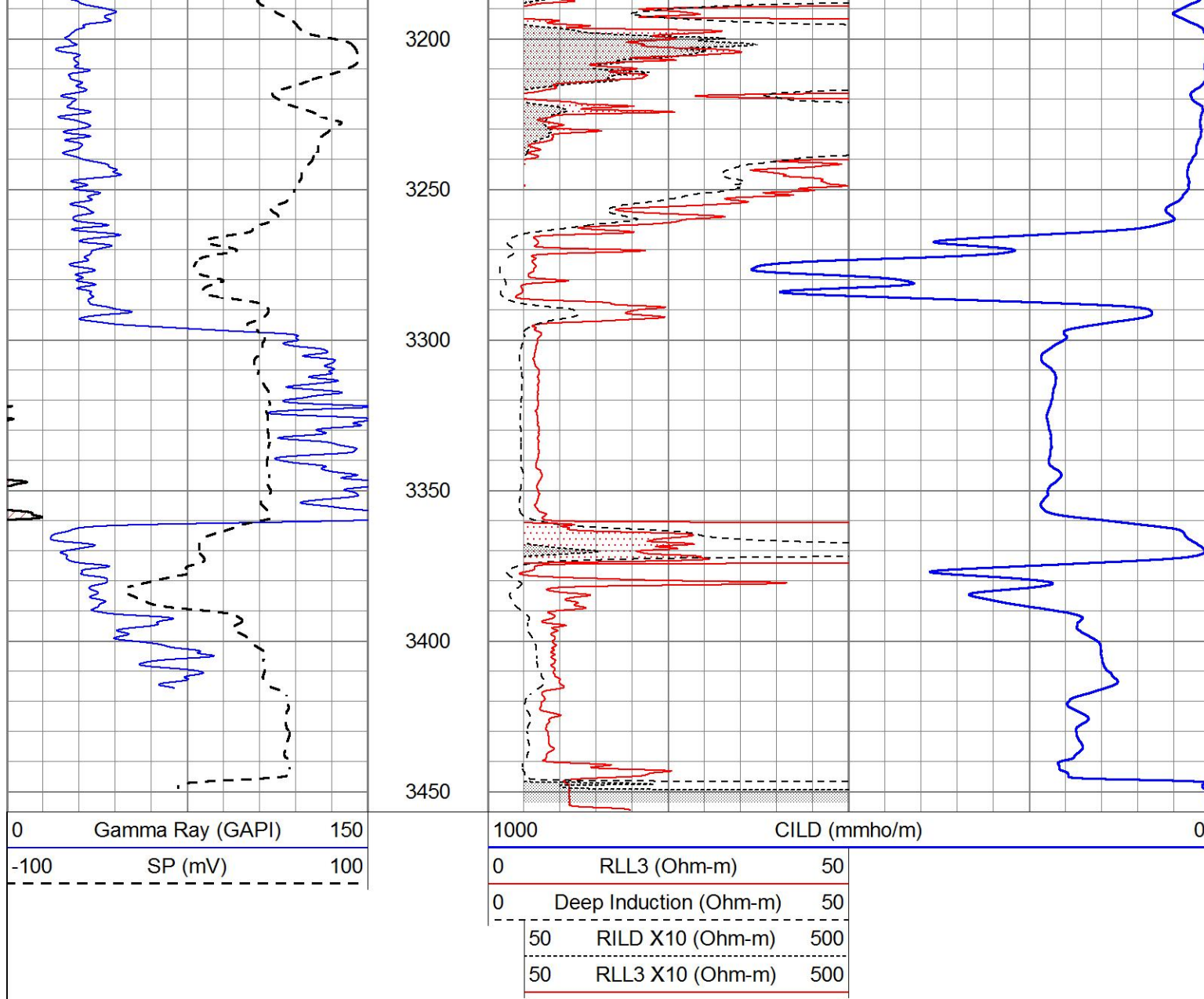
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3050

3100

3150

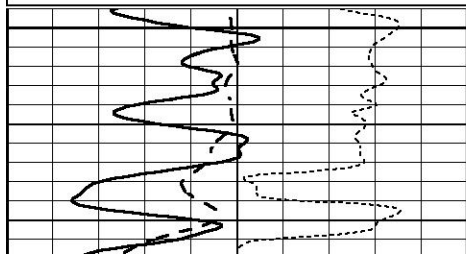




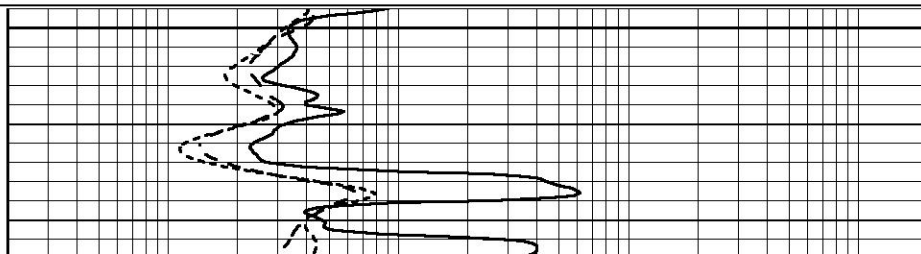
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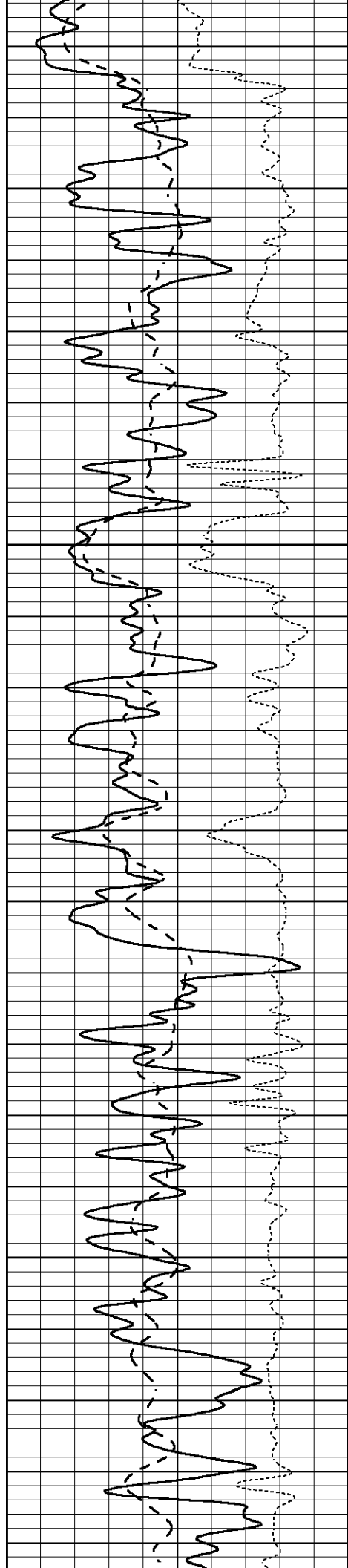
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0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



1000



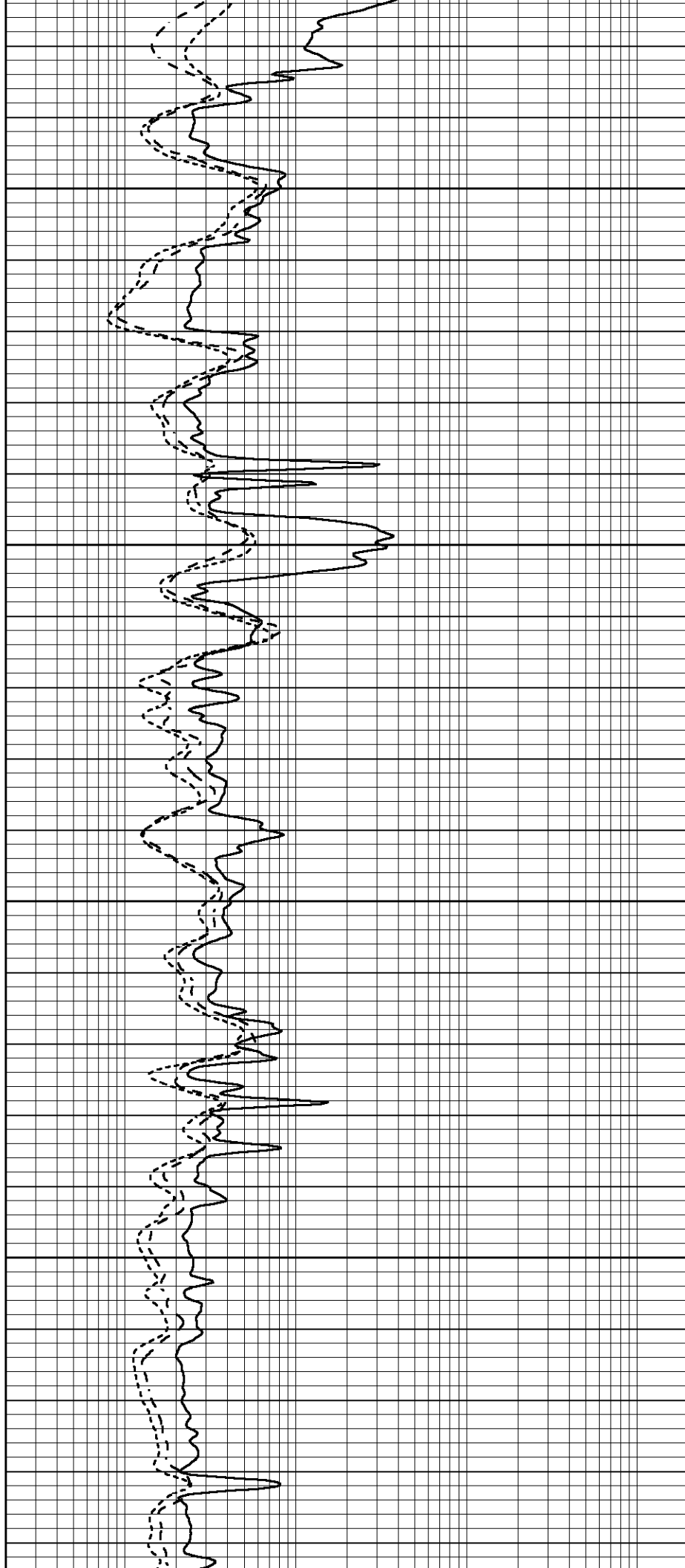


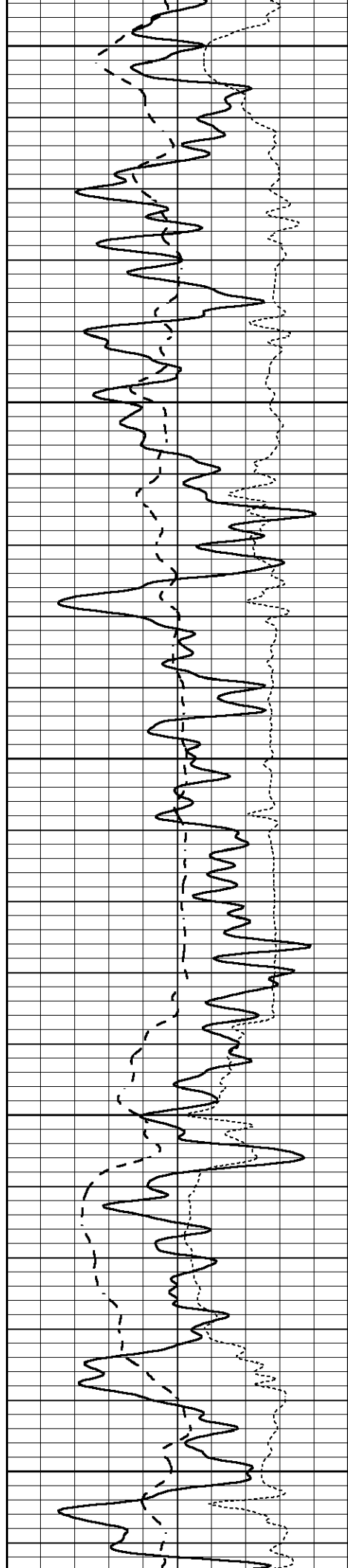
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1100

1150

1200





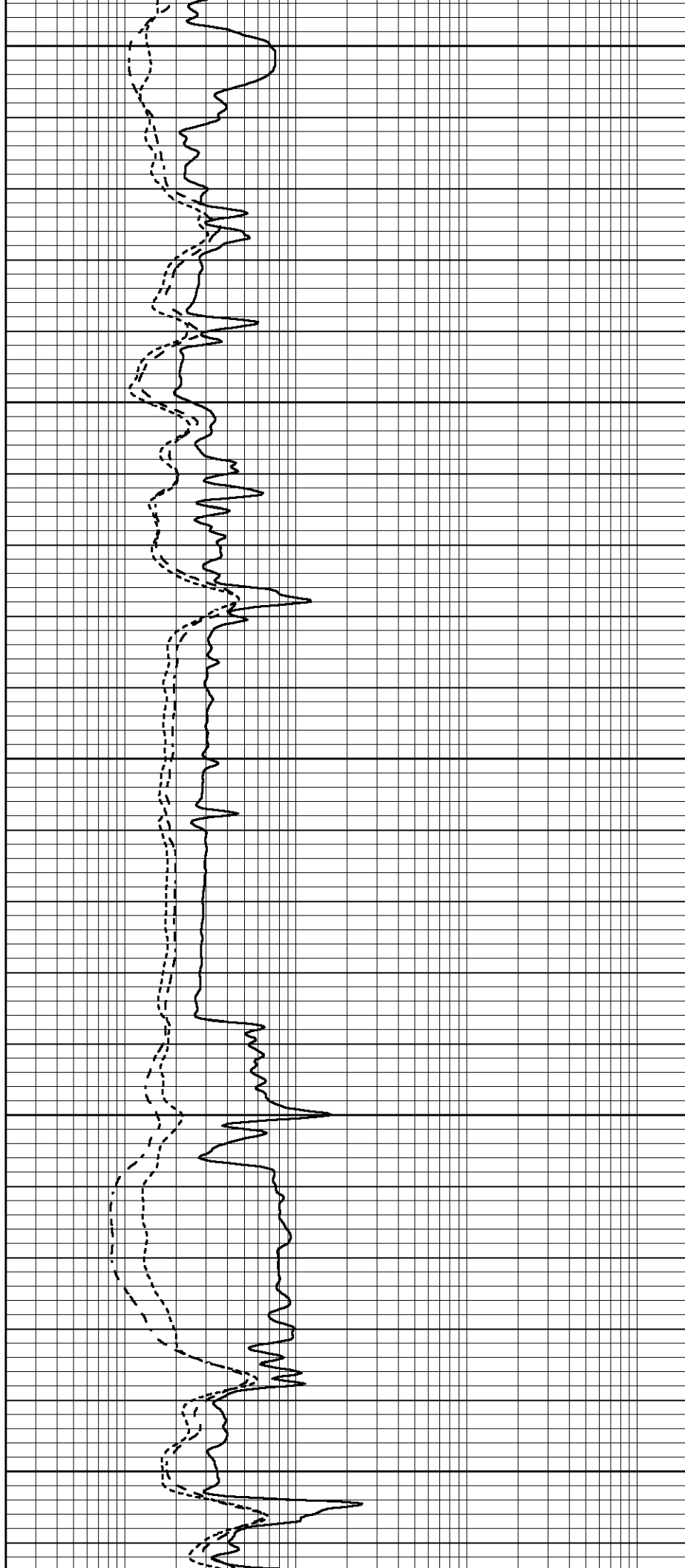
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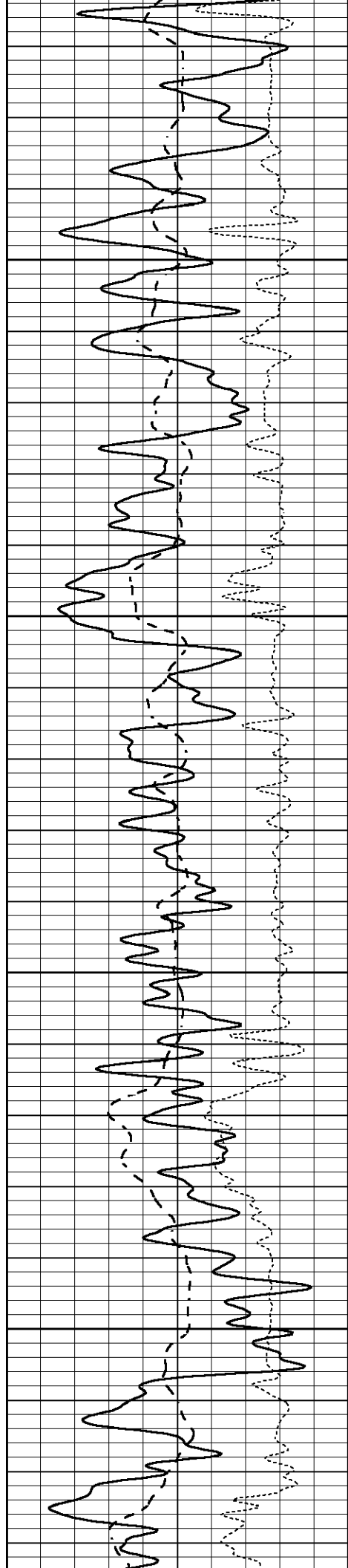
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1350

1400

1450



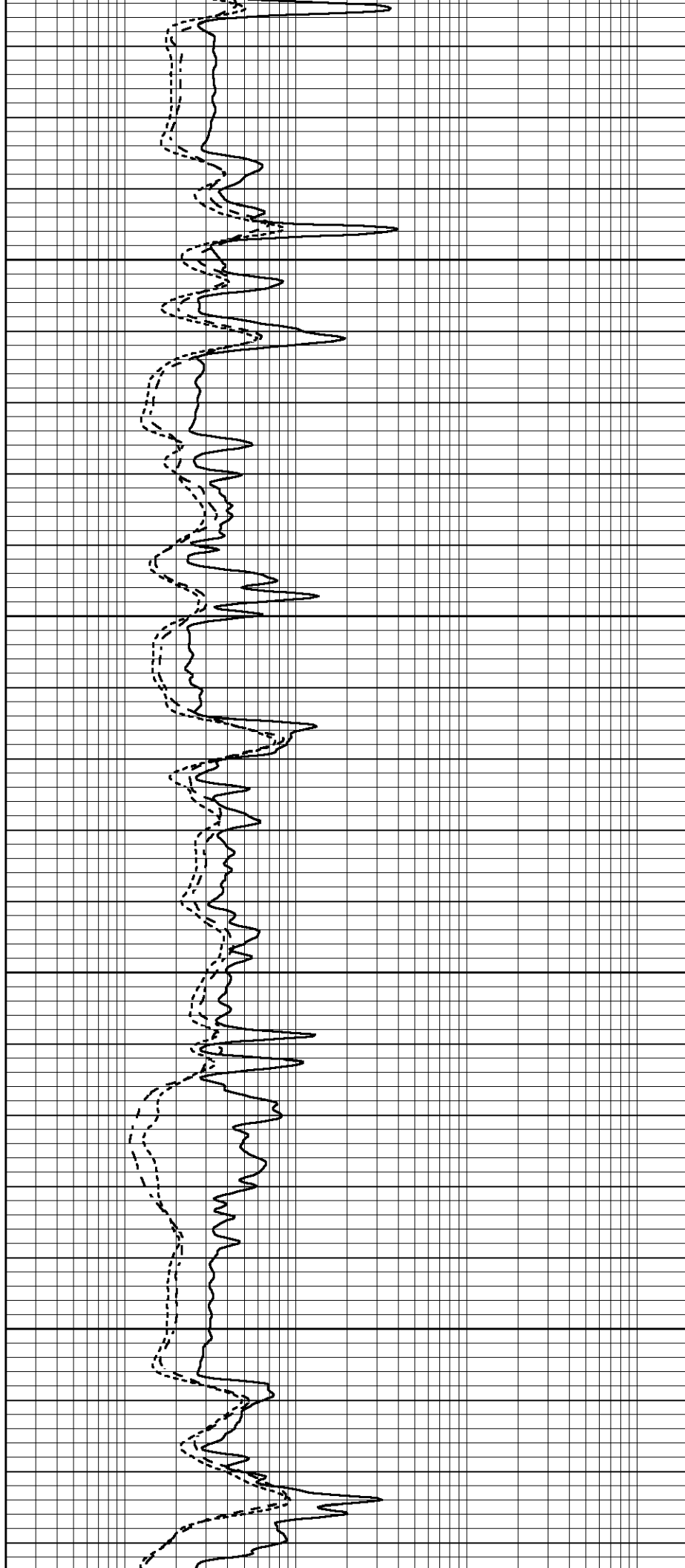


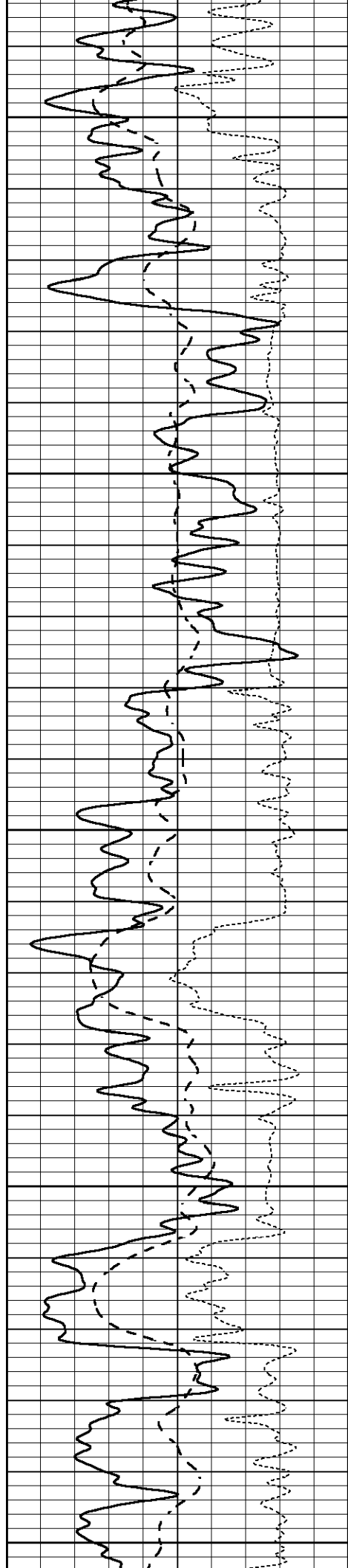
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1550

1600

1650





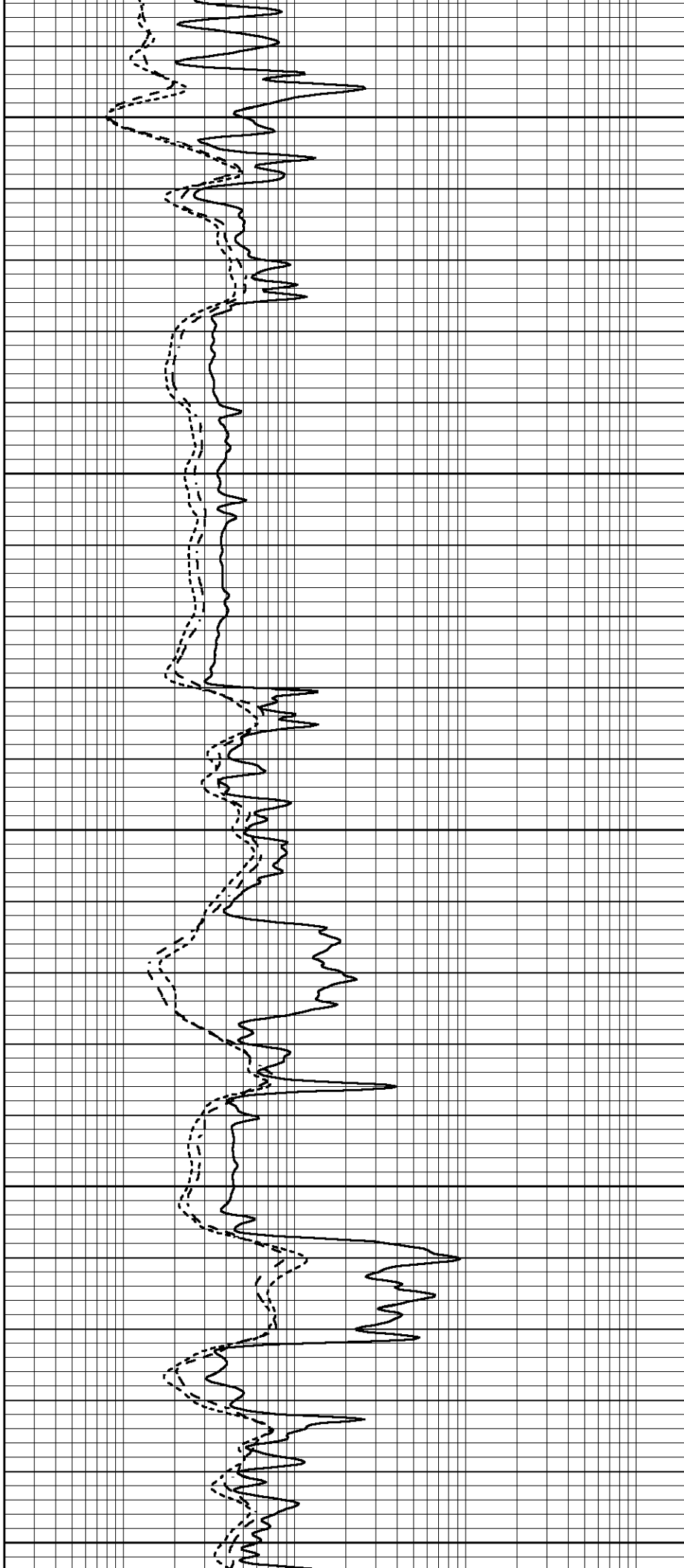
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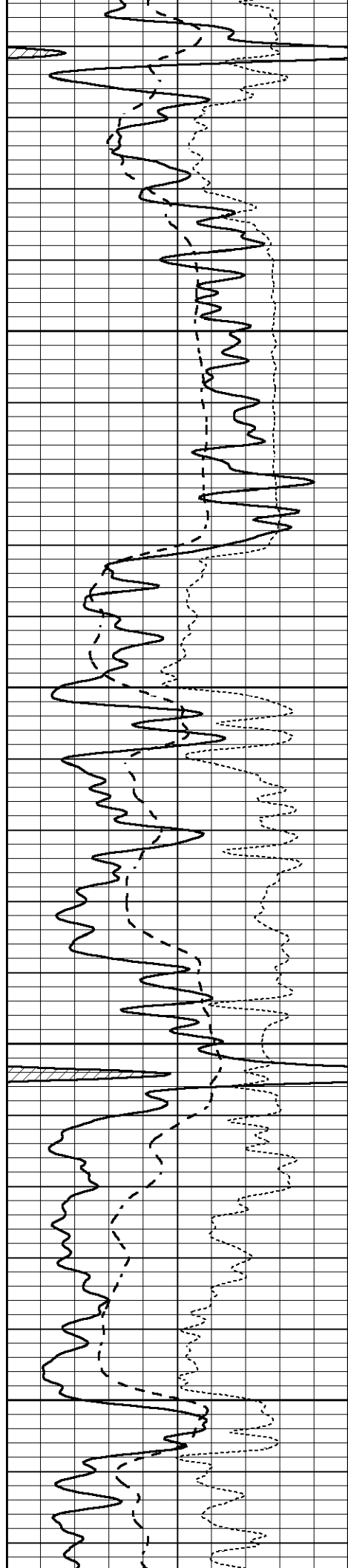
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1850

1900



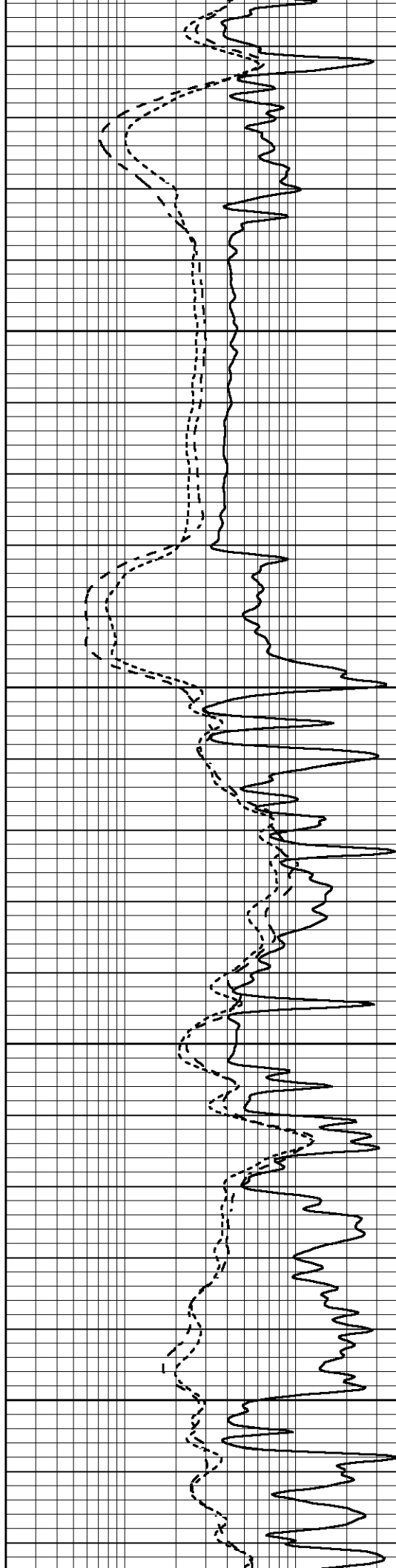


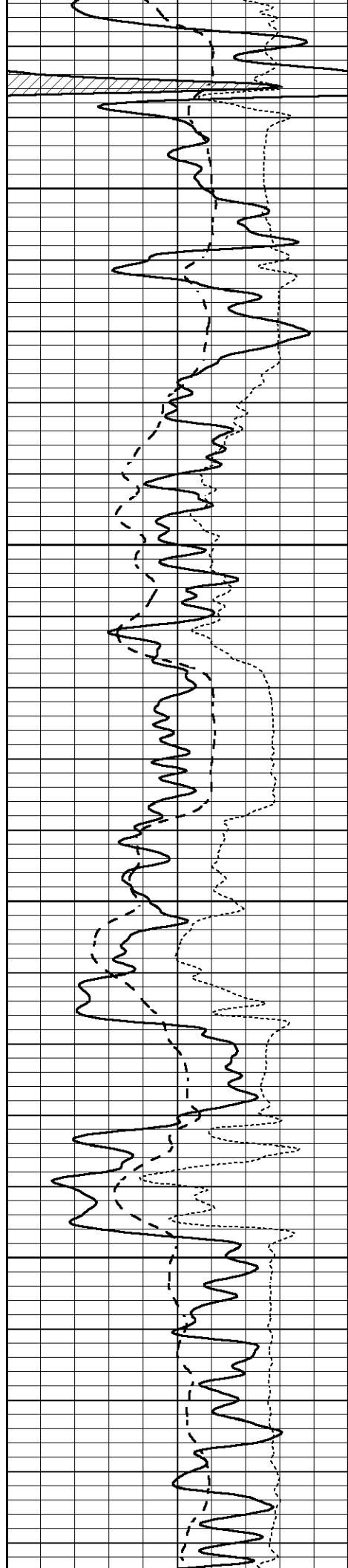
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2000

2050

2100



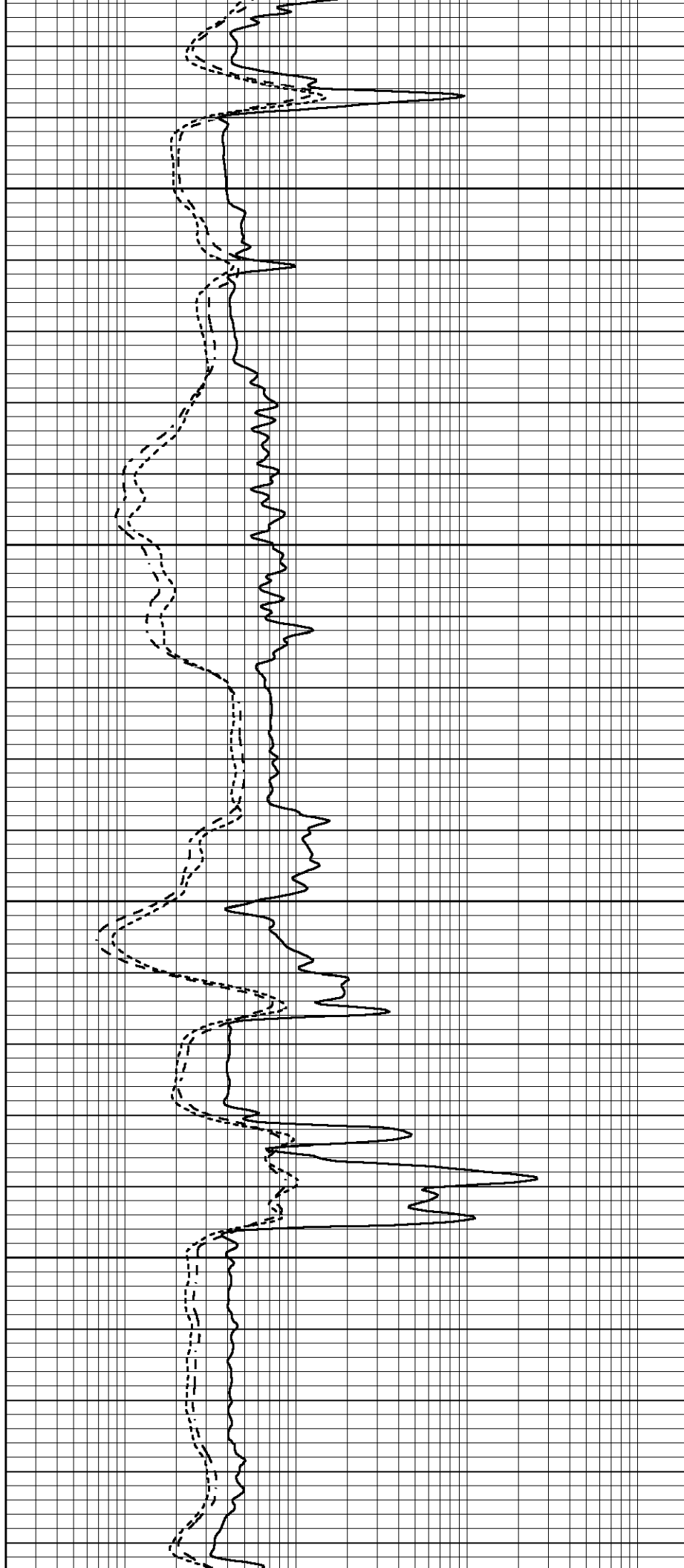


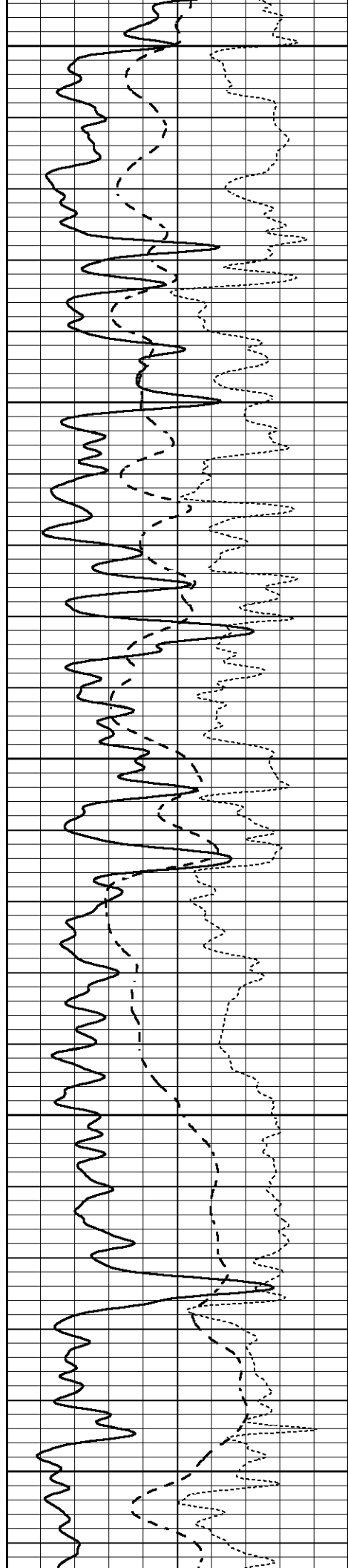
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2200

2250

2300





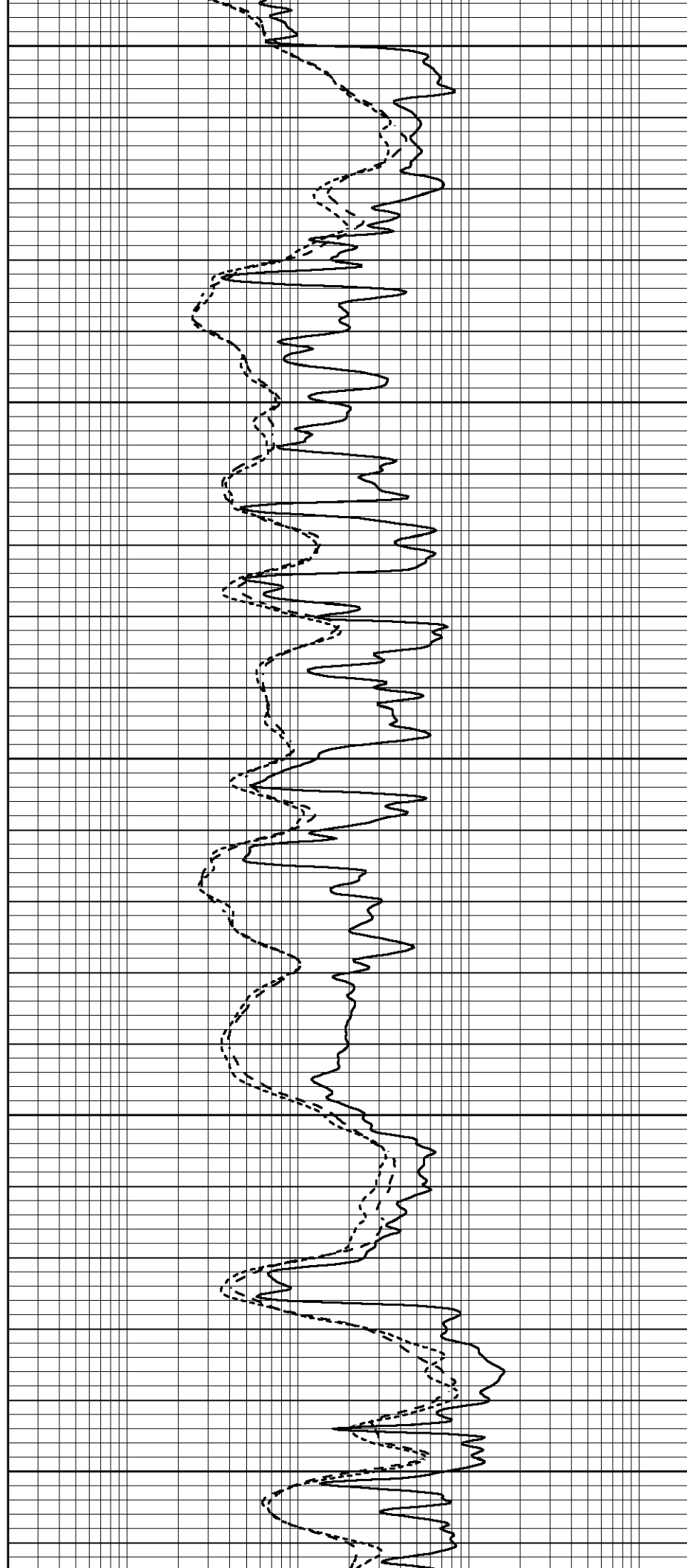
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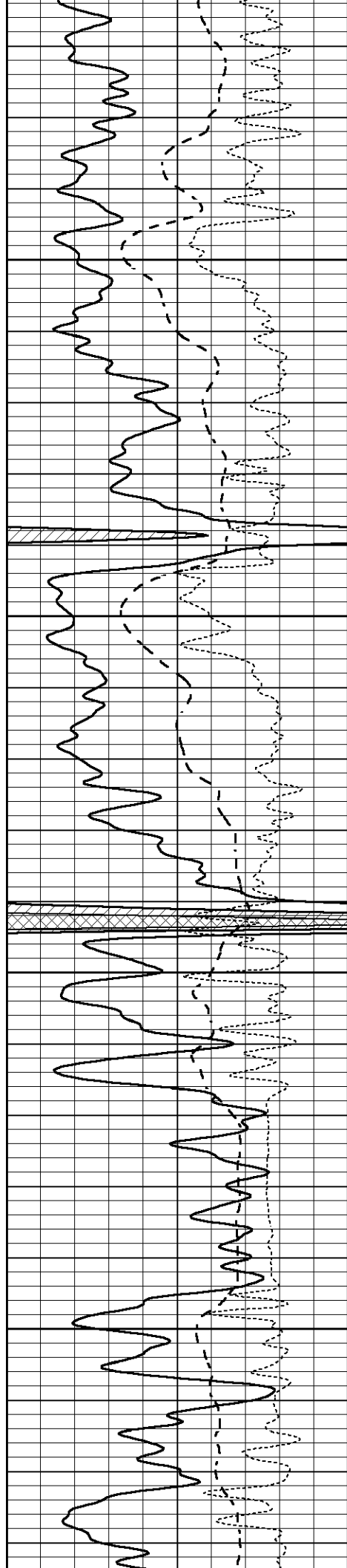
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2550



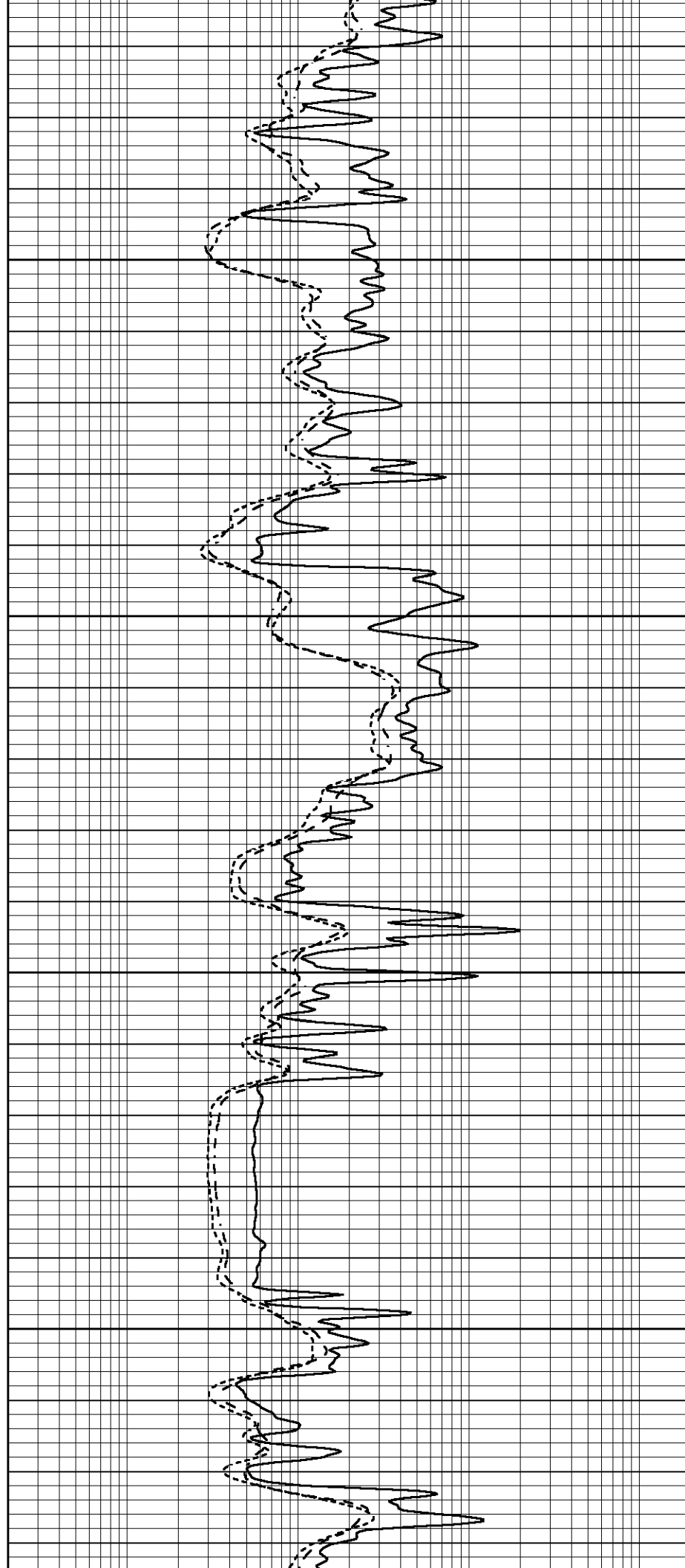


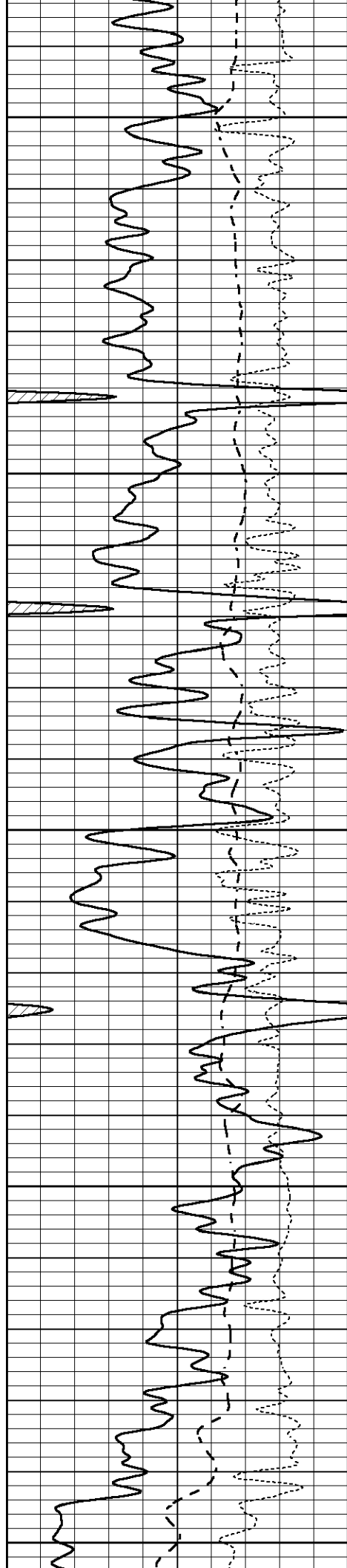
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2750





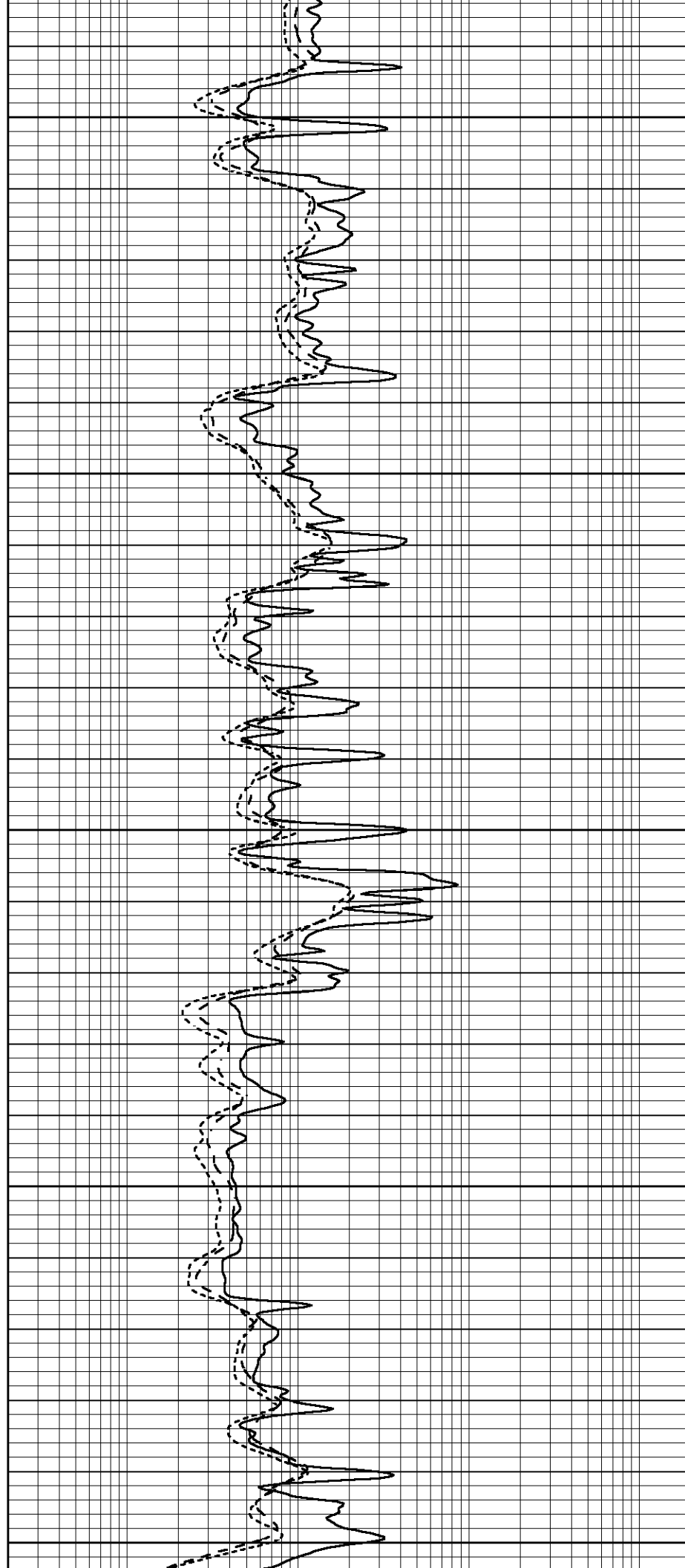
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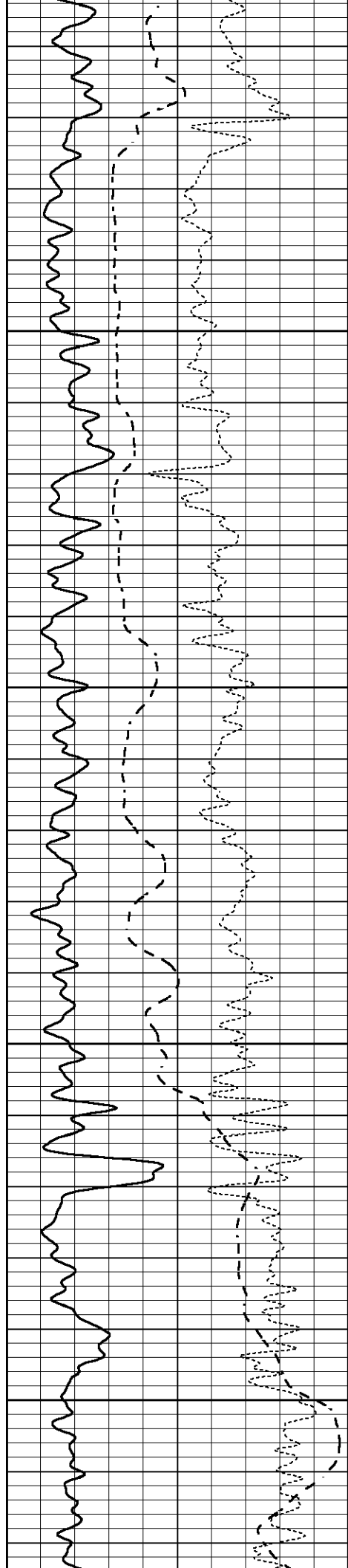
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2900

2950

3000



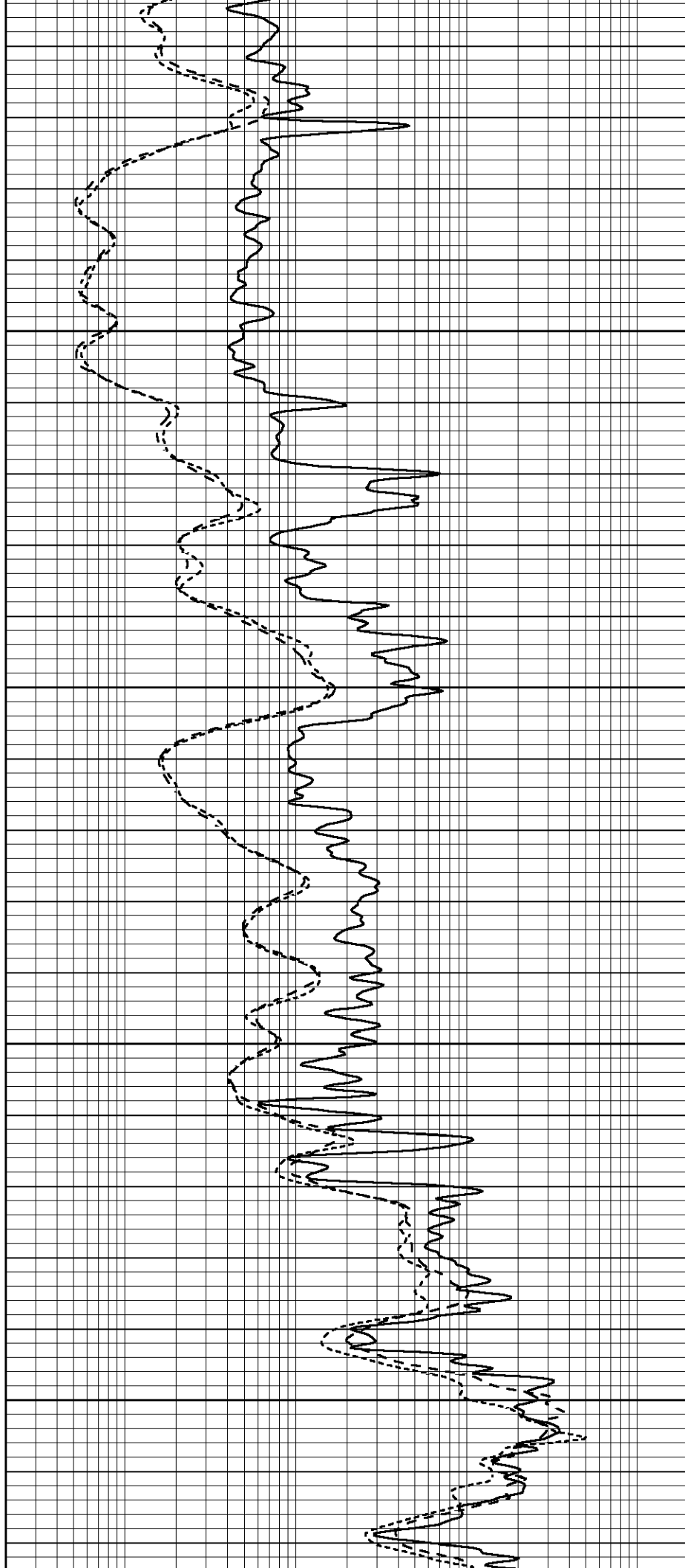


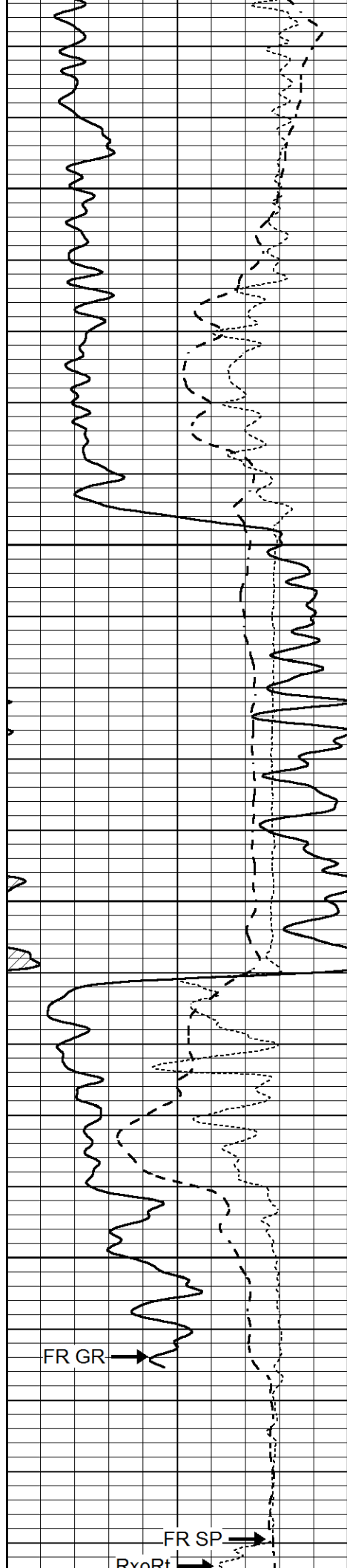
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3100

3150

3200



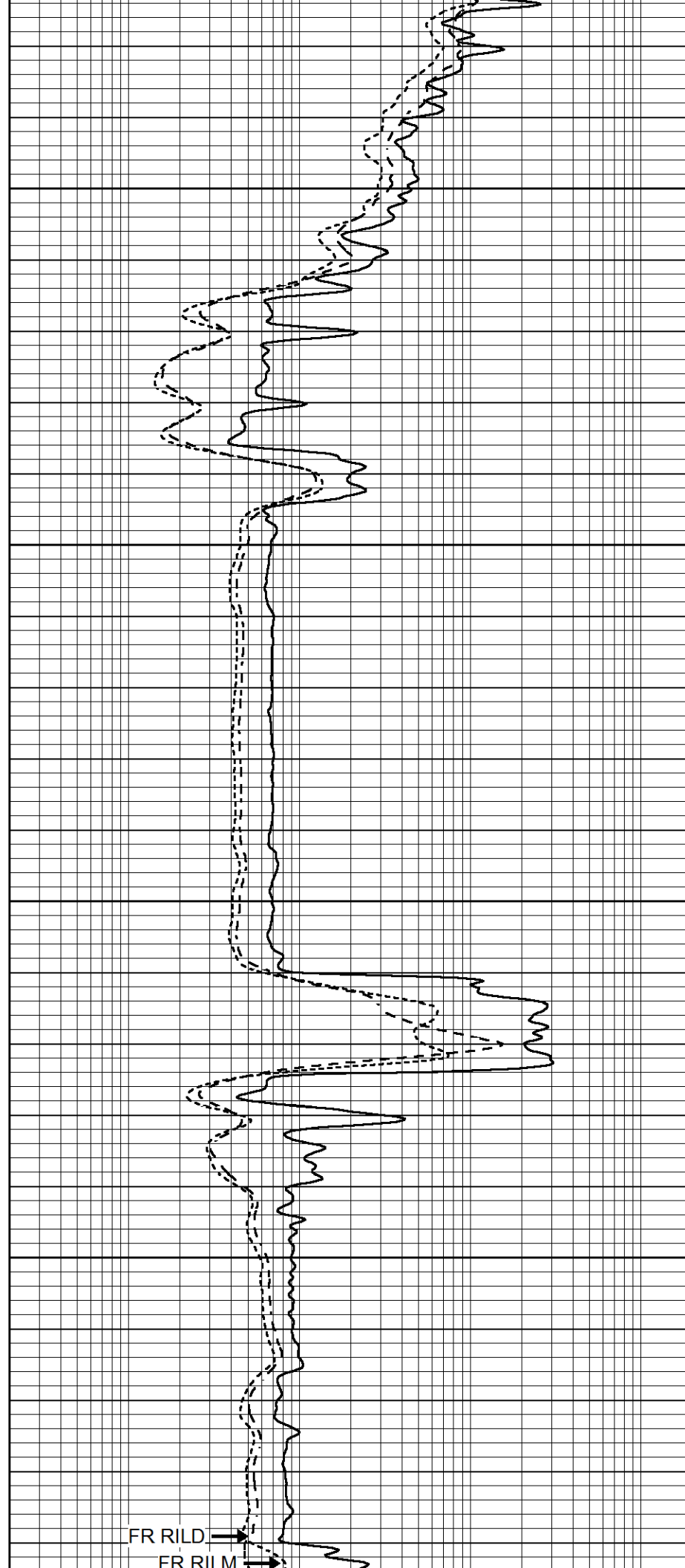


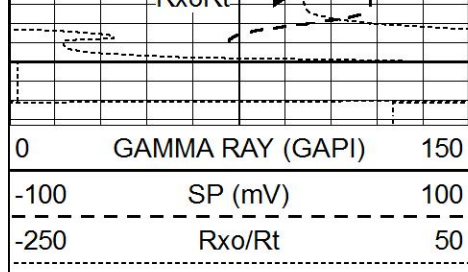
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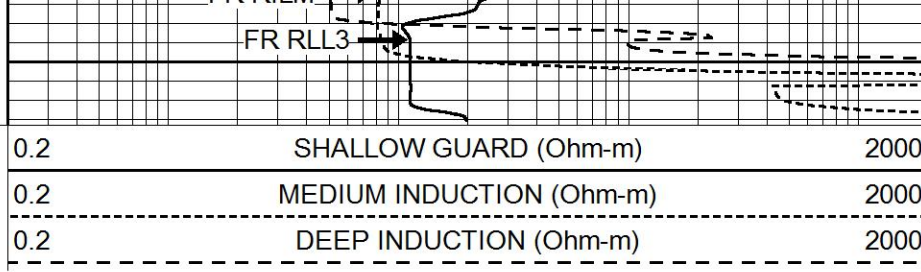
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3400



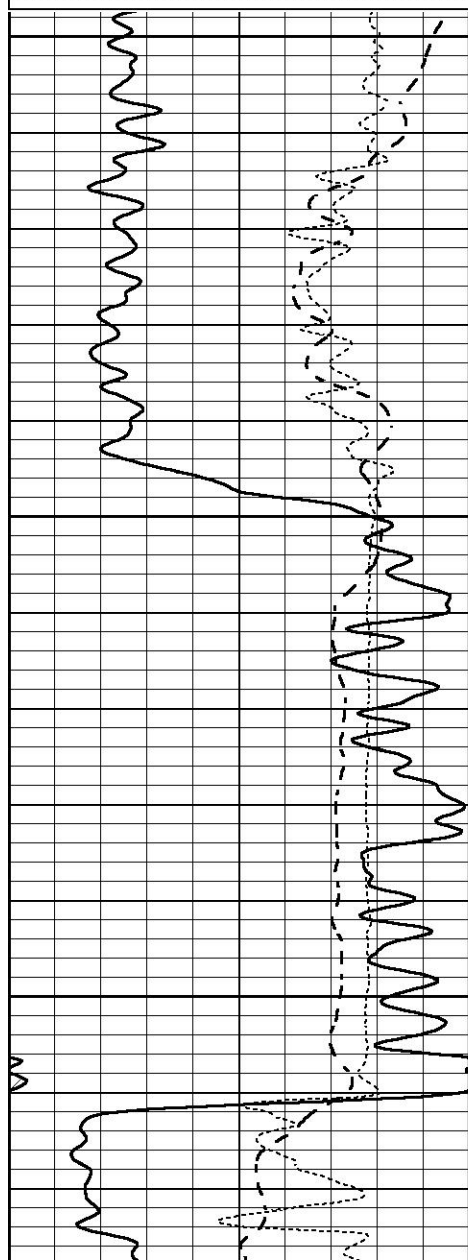
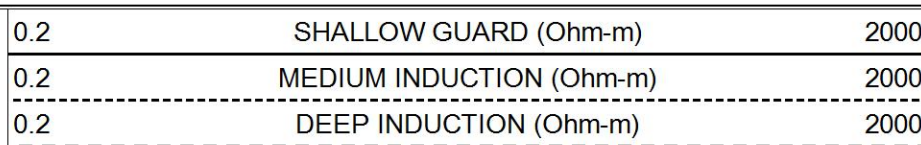
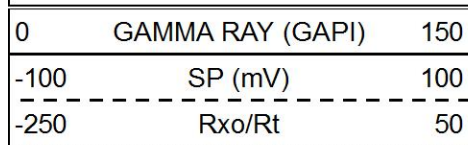


LTD 3450



REPEAT SECTION

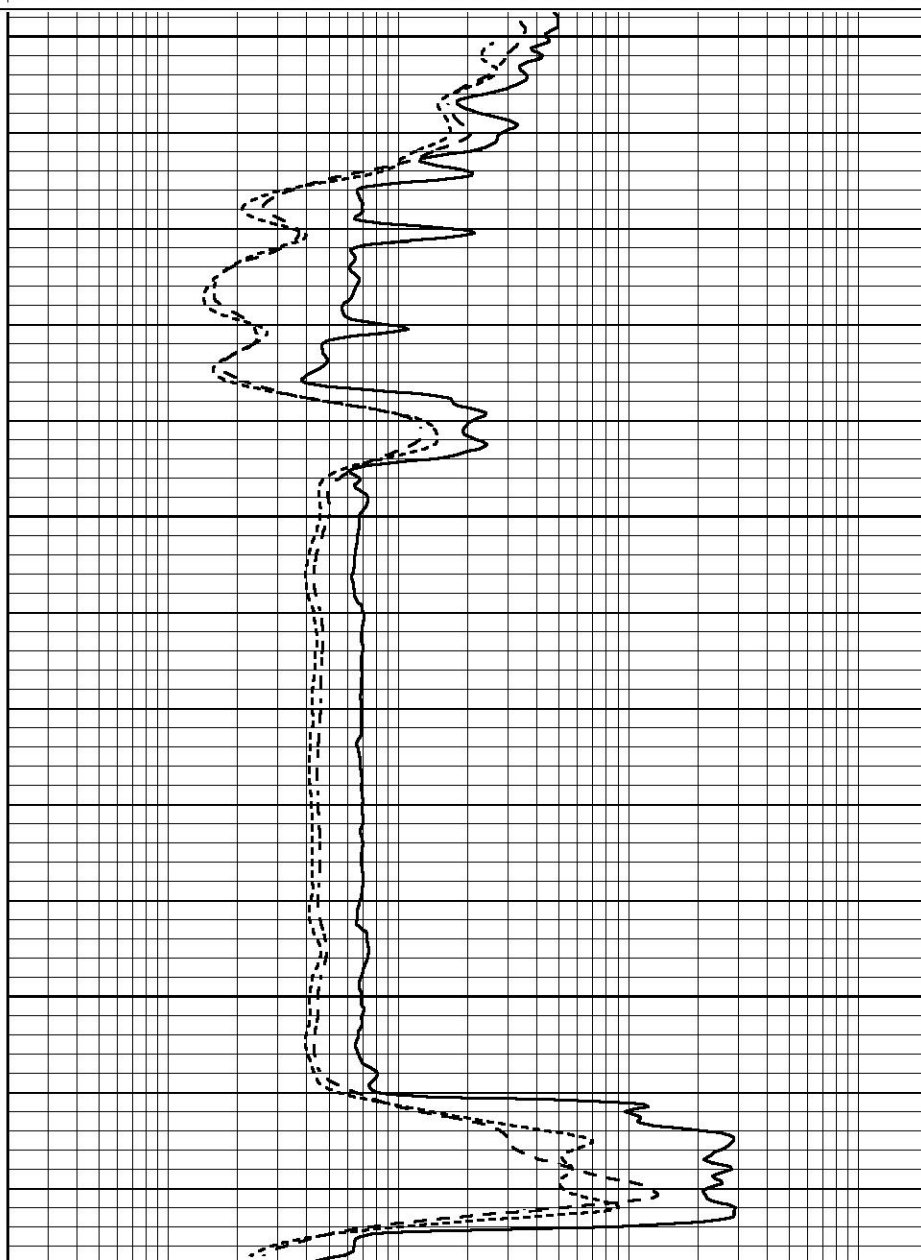
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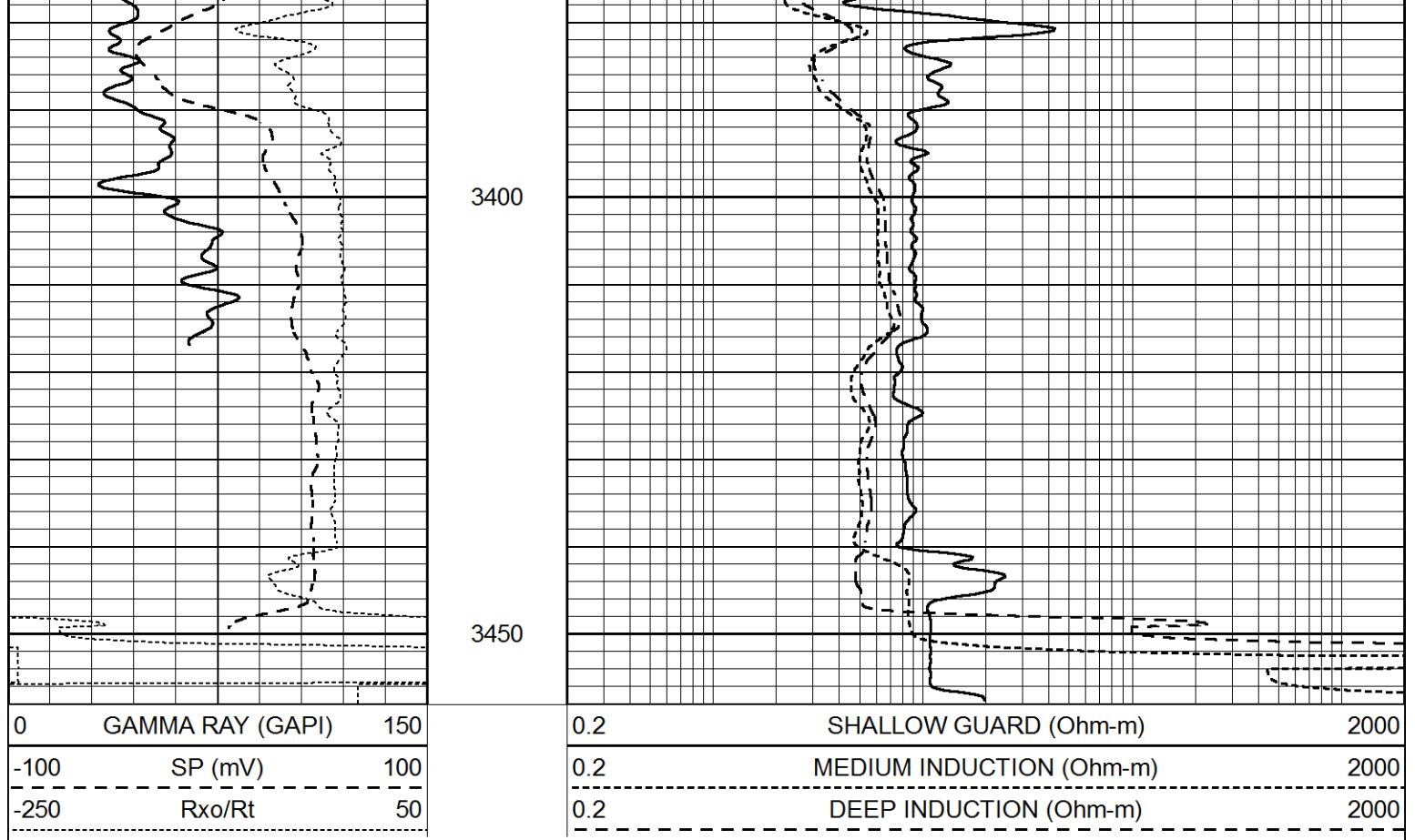


3250

3300

3350





Calibration Report									
Database File	3994pe8.db								
Dataset Pathname	pass2.1								
Dataset Creation	Fri Sep 20 17:06:24 2019								
Dual Induction Calibration Report									
Serial-Model:				FW1410-55-Probe					
Surface Cal Performed:				Tue Feb 19 11:44:18 2019					
Downhole Cal Performed:				Tue Feb 19 11:44:24 2019					
After Survey Verification Performed:				Tue Feb 19 11:44:27 2019					
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524	
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595	
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251	
Downhole Calibration									
		Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'	
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149	
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099	
LL3		7.503	V		1500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3745.000	mmho-m			

After Survey Verification			Readings		Targets		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Compensated Neutron Calibration Report								
Serial Number:				080621PMC				
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:			7					
Tool Model:			Probe1					
Performed:			Tue Feb 19 11:45:10 2019					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.4300		GAPI/cps			