



DUAL INDUCTION LOG

Company RAYMOND OIL COMPANY, INC.		Company RAYMOND OIL COMPANY, INC.	
Well KREUTZER #1		Well KREUTZER #1	
Field UNNAMED		Field UNNAMED	
County WICHITA		County WICHITA	
State KANSAS		State KANSAS	
Location:		API # : 15-203-20373-0000	
Permanent Datum SEC 26 TWP 19S RGE 36W		1245' FNL & 416' FWL SE - SW - NW - NW	
Log Measured From GROUND LEVEL Elevation 3228		CDL/CNL MEL	
Drilling Measured From KELLY BUSHING 5' A.G.L		Elevation K.B. 3233 D.F. 3231 G.L. 3228	
Date	11/5/22		
Run Number	ONE		
Depth Driller	5200		
Depth Logger	5200		
Bottom Logged Interval	5198		
Top Log Interval	00		
Casing Driller	8 5/8" @ 250		
Casing Logger	250		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7.800 PPM	
Density / Viscosity	9.5/58		
pH / Fluid Loss	10.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30 @ 74F		
Rmt @ Meas. Temp	.975 @ 74F		
Rmc @ Meas. Temp	1.56 @ 74F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.757 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2.30 A.M.		
Maximum Recorded Temperature	127F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	KIM SHOEMAKER		

<<< Fold Here >>>

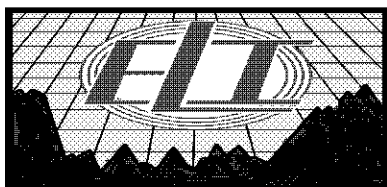
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

Comments

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

DIRECTIONS:

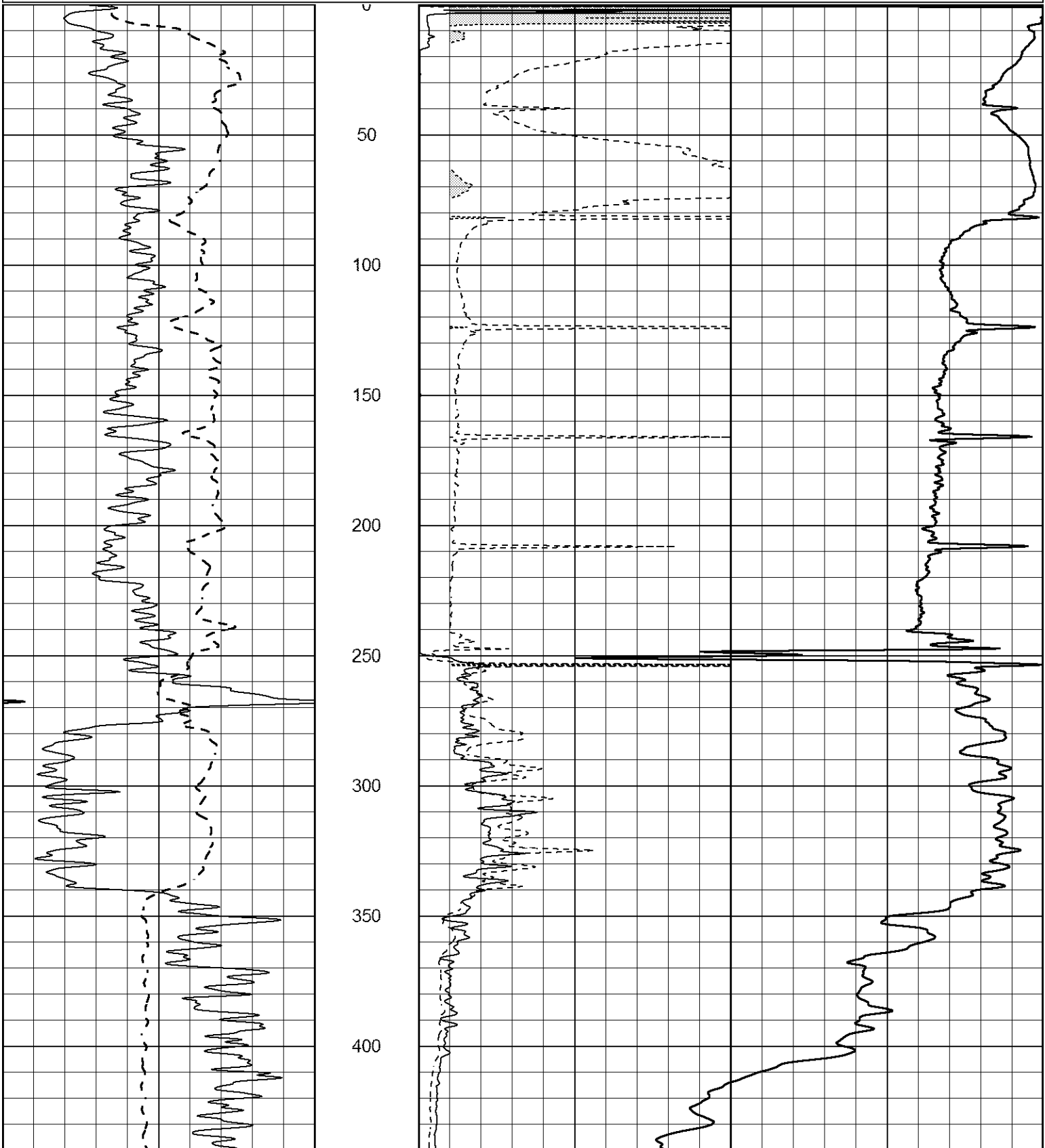
FROM LEOTI, KANSAS GO 7 MILES SOUTH ON HIGHWAY 25 TO W ROAD, 4 MILES EAST TO 17 ROAD (T INTERSECTION), 1/4 MILE SOUTH, EAST INTO



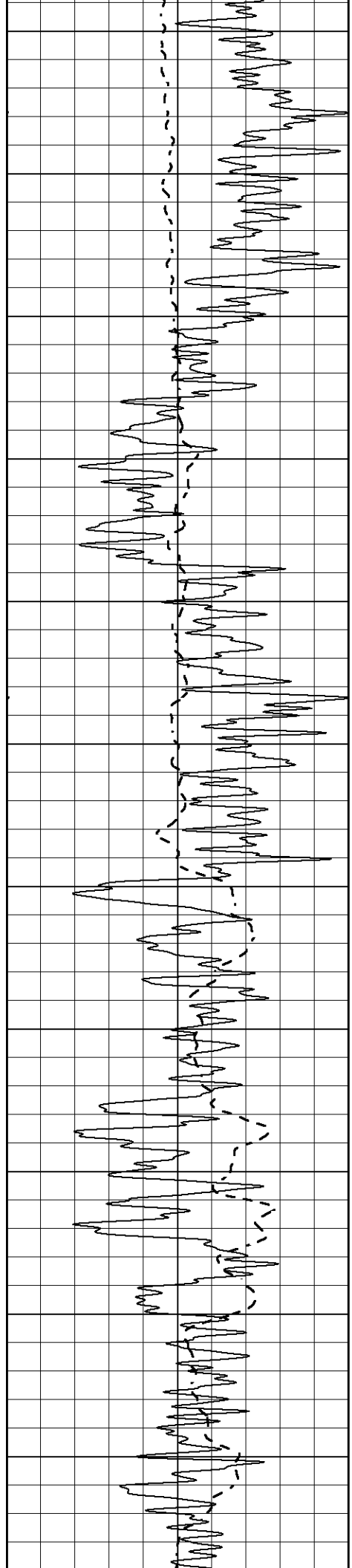
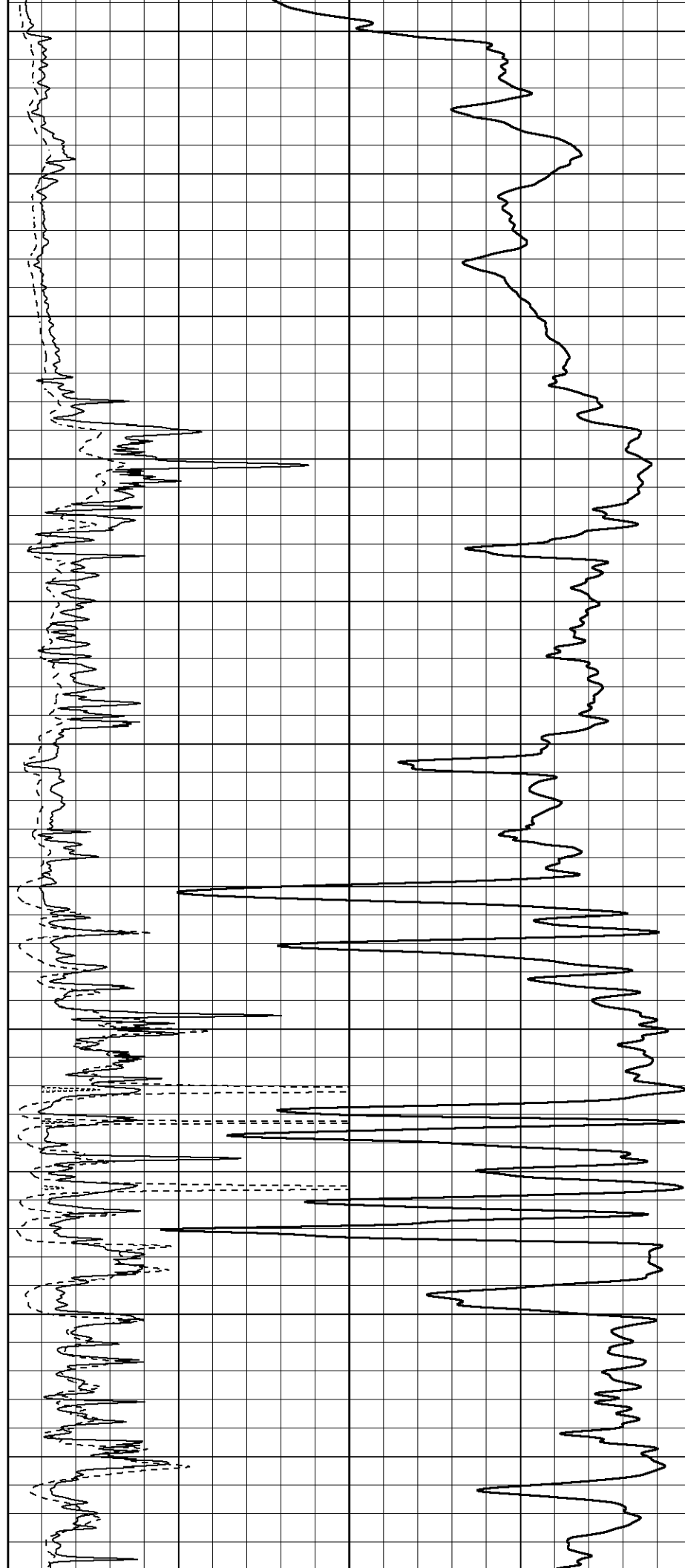
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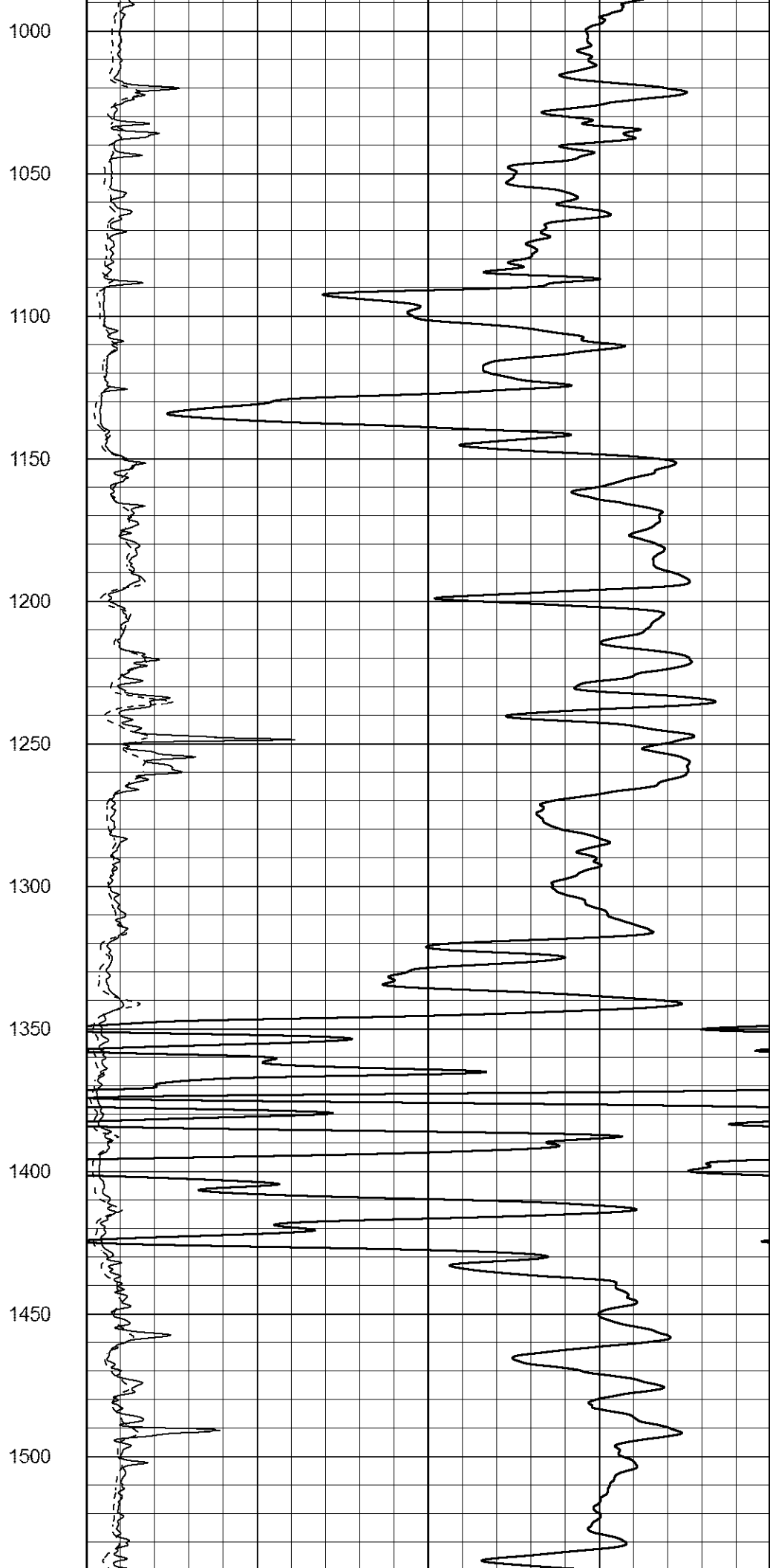
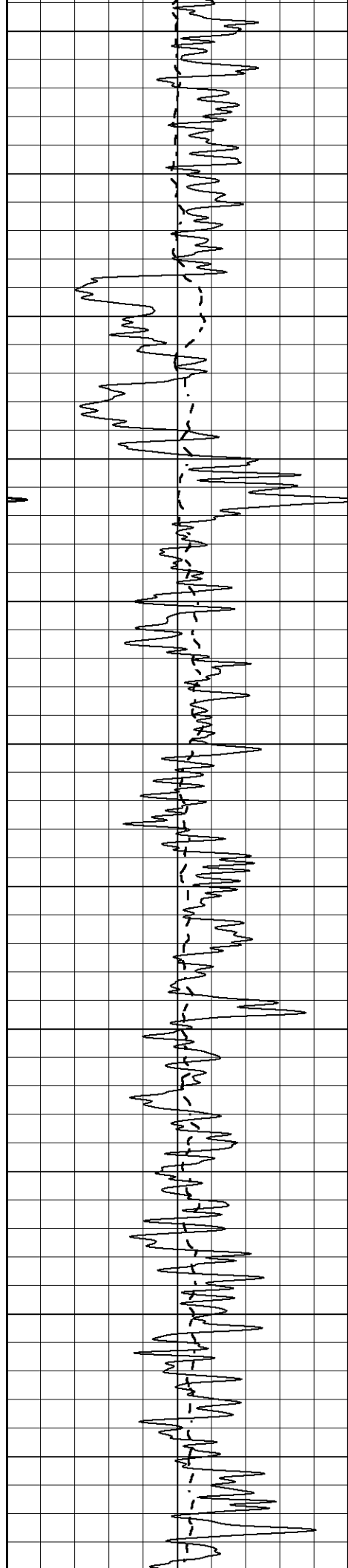
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Dataset Pathname	pass4MN
Presentation Format	_dil2
Dataset Creation	Sat Nov 05 05:24:18 2022
Charted by	Depth in Feet scaled 1:600

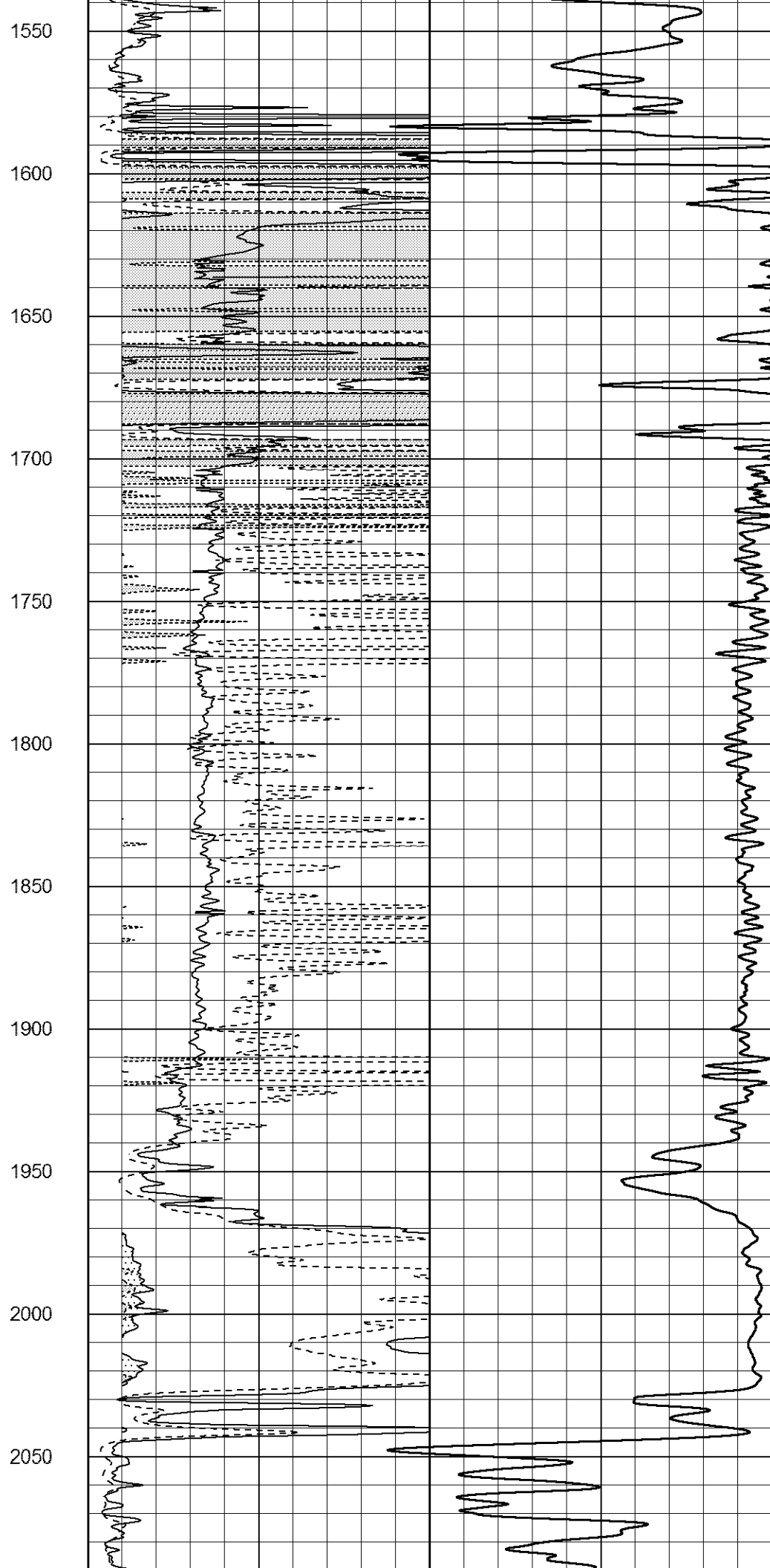
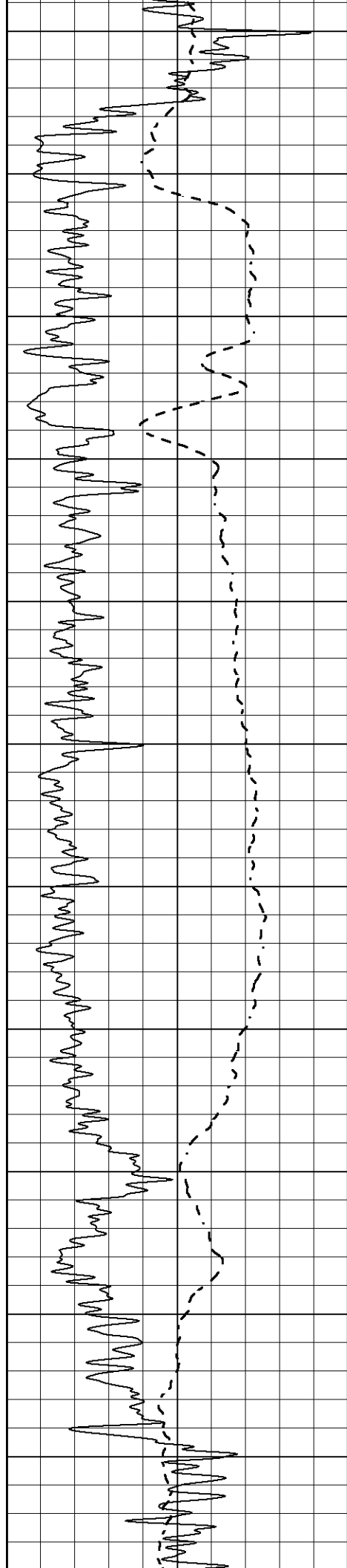
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500

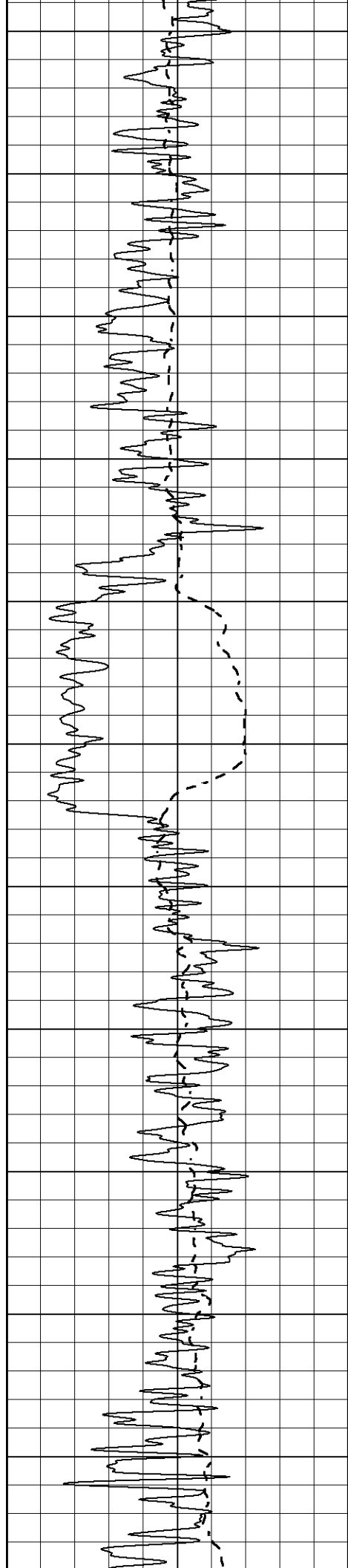


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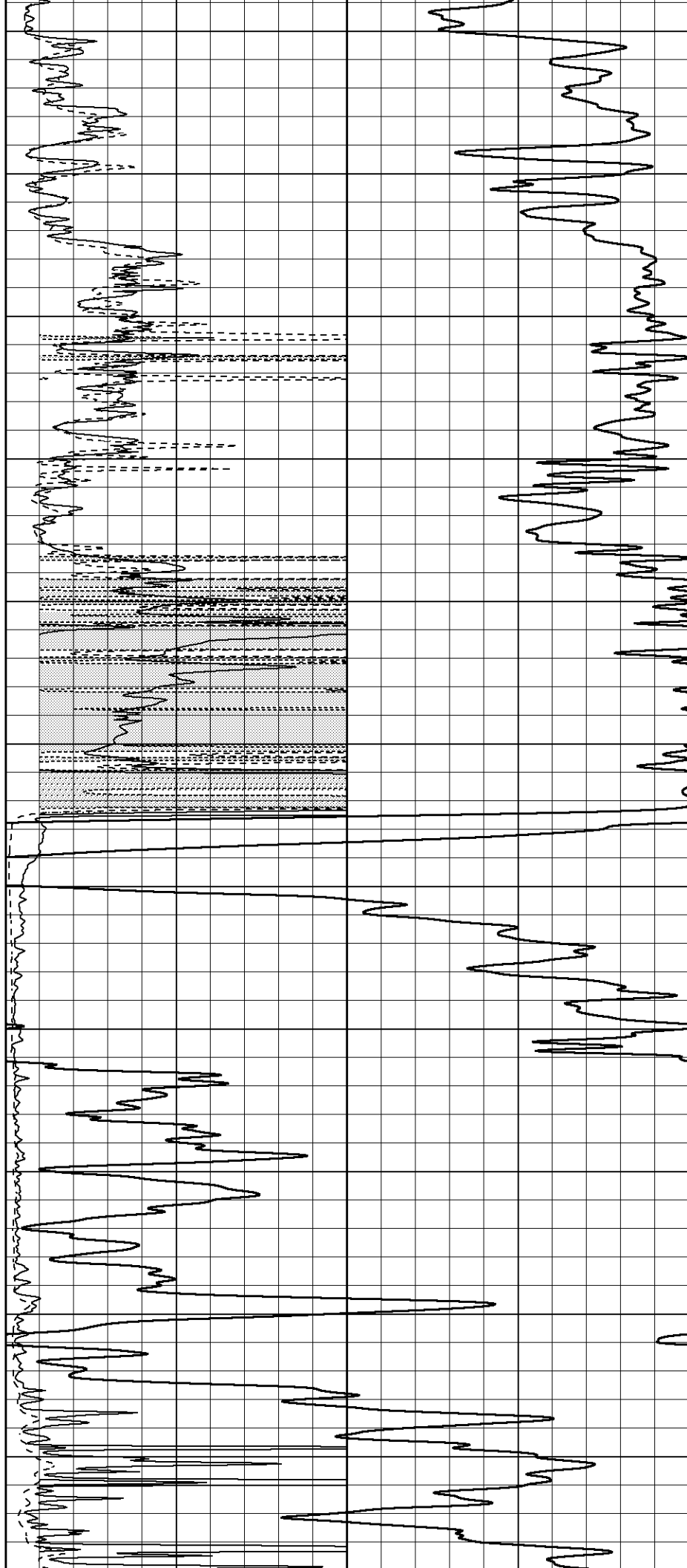


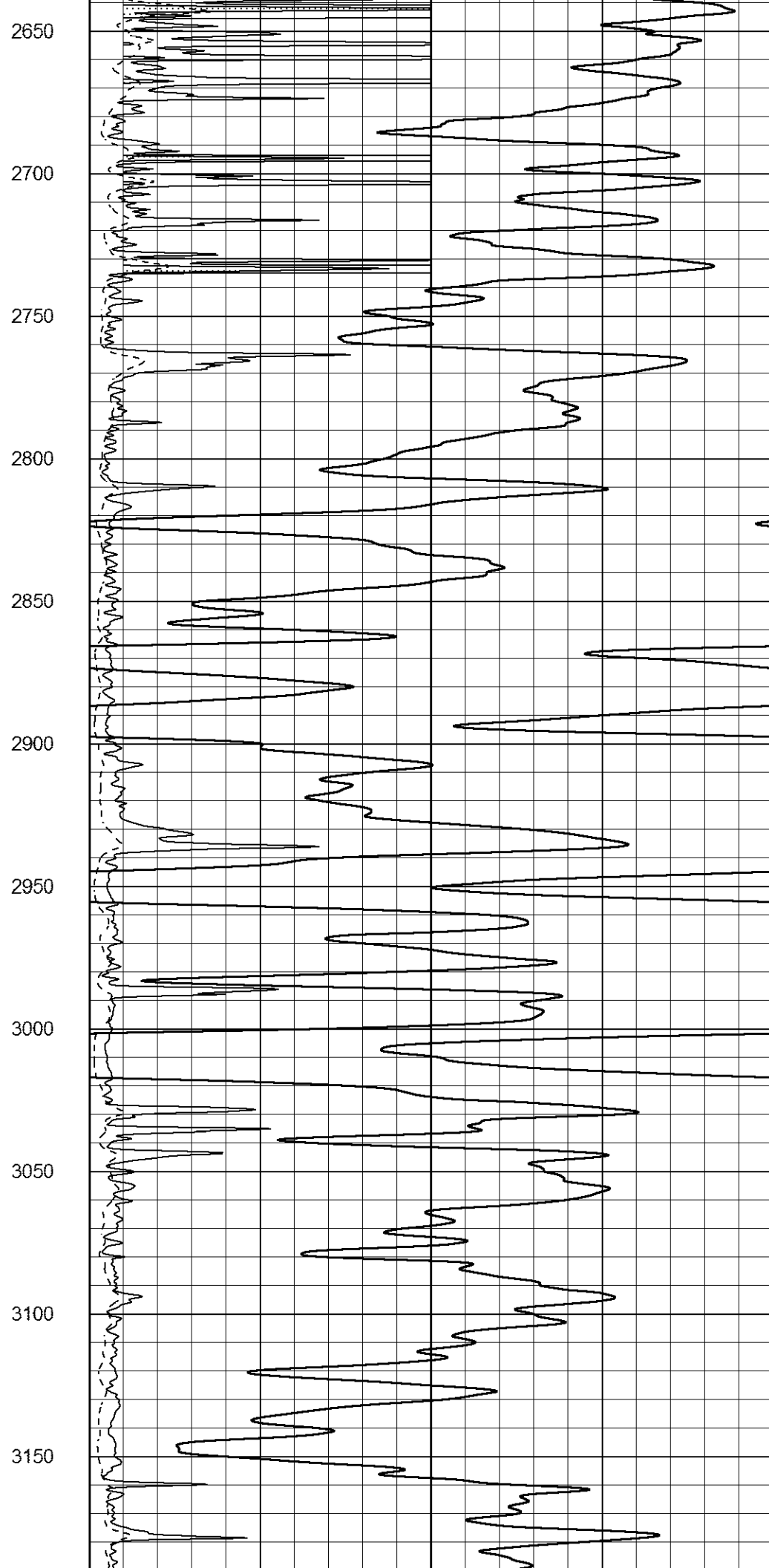
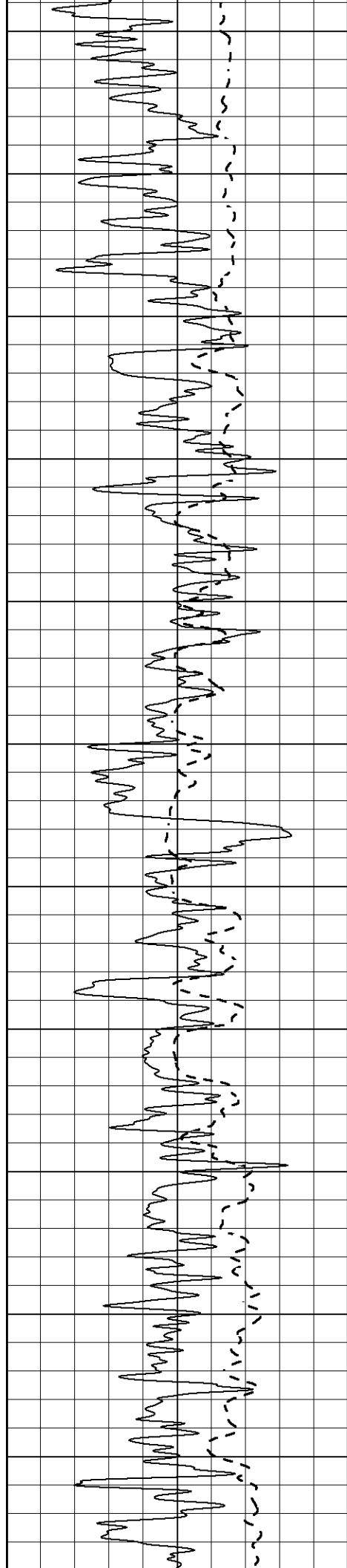


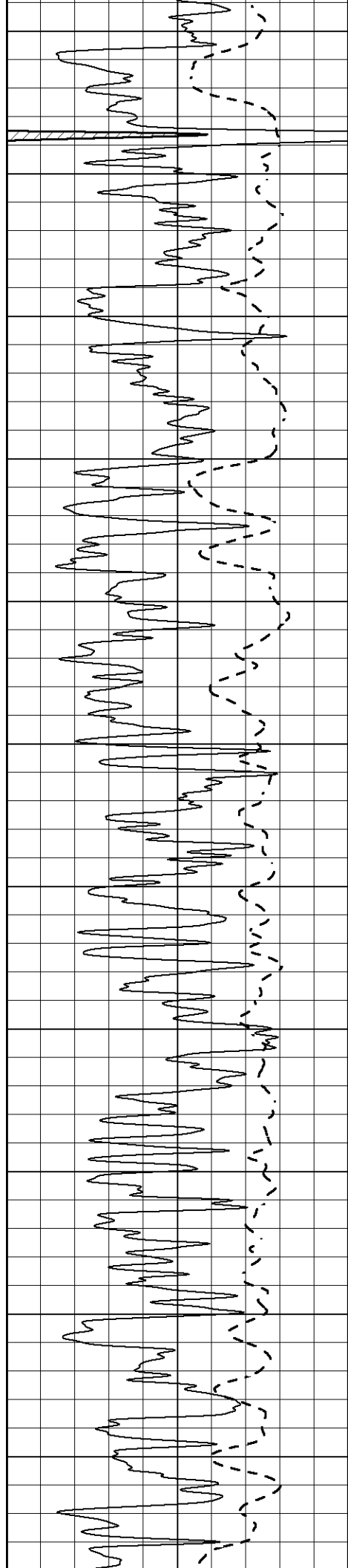




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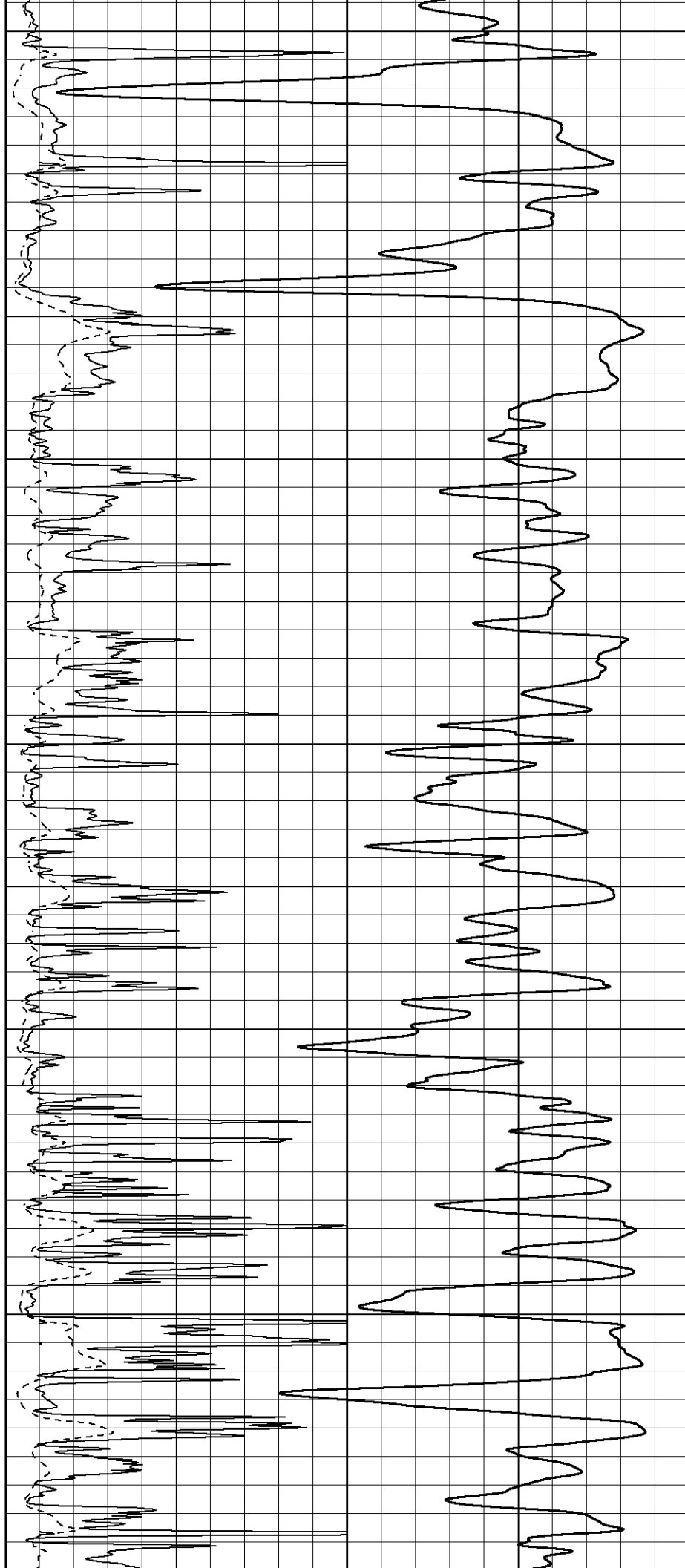
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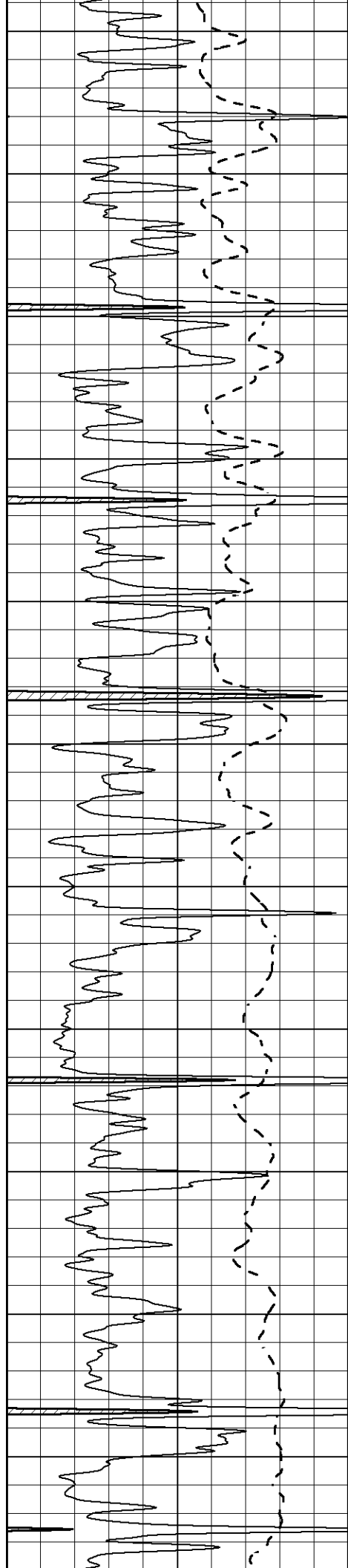
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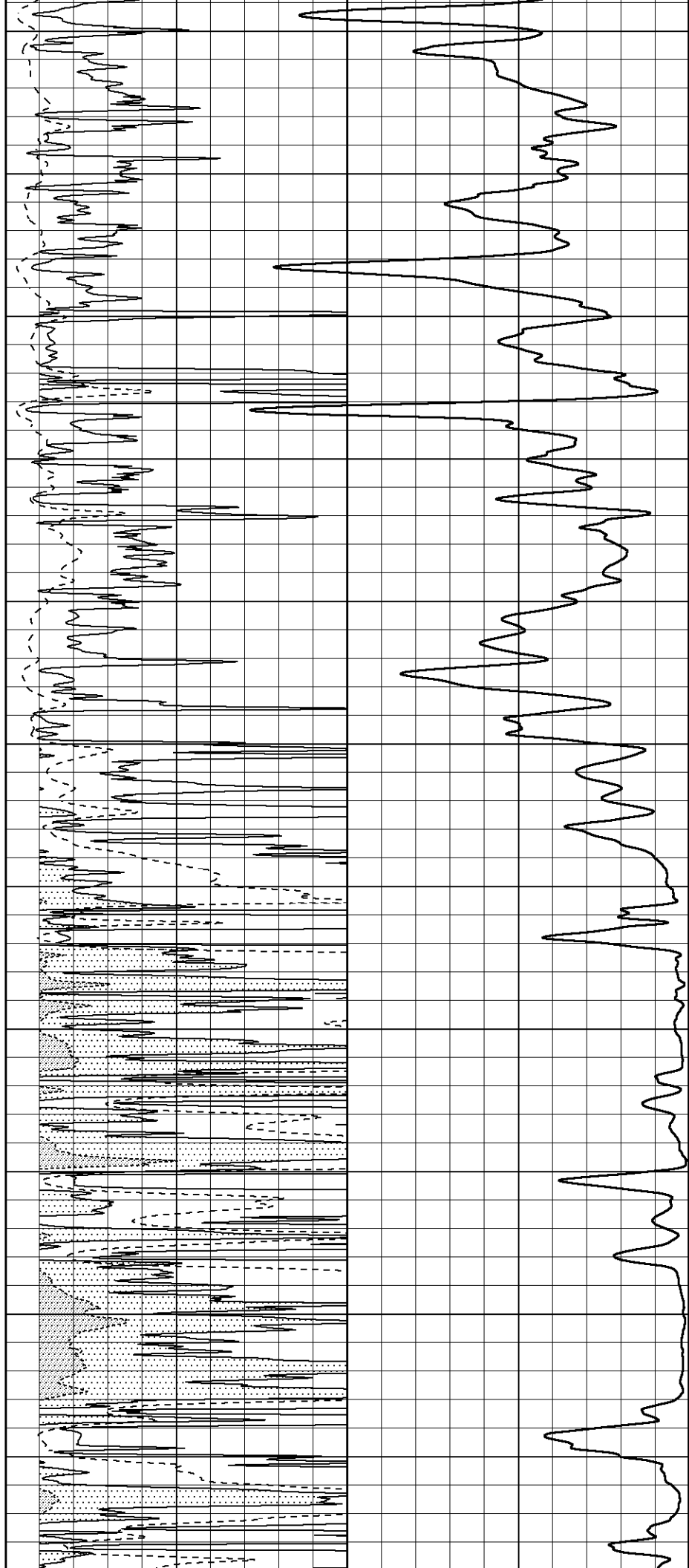
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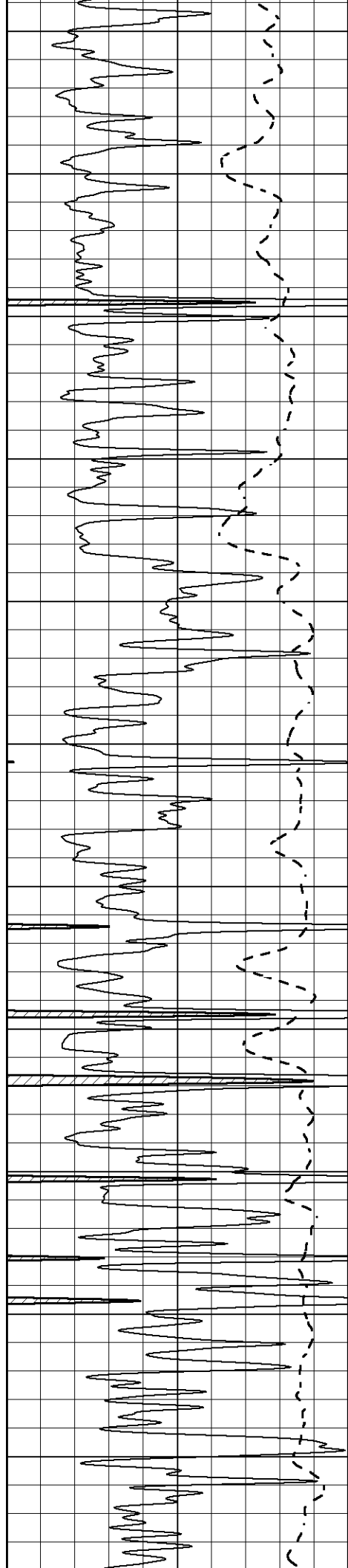
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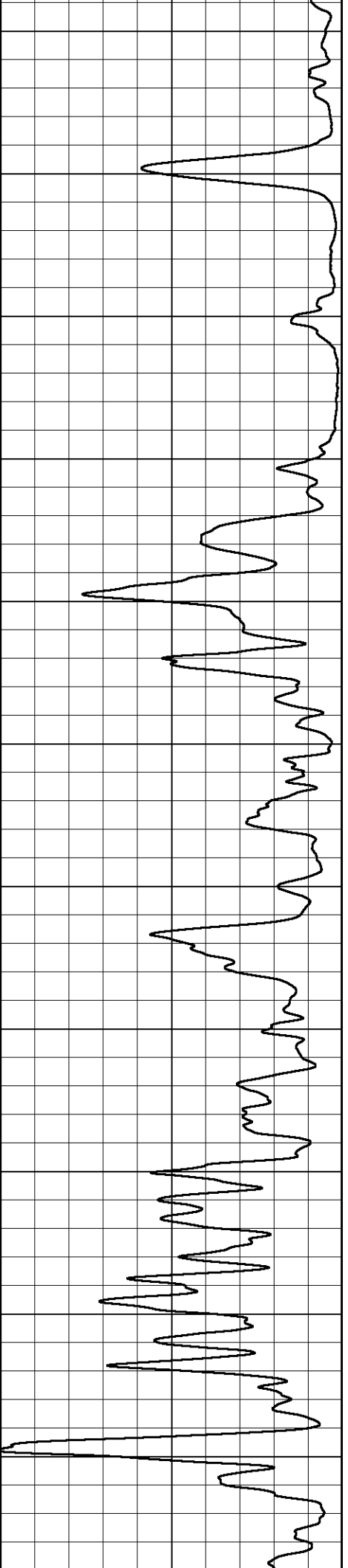
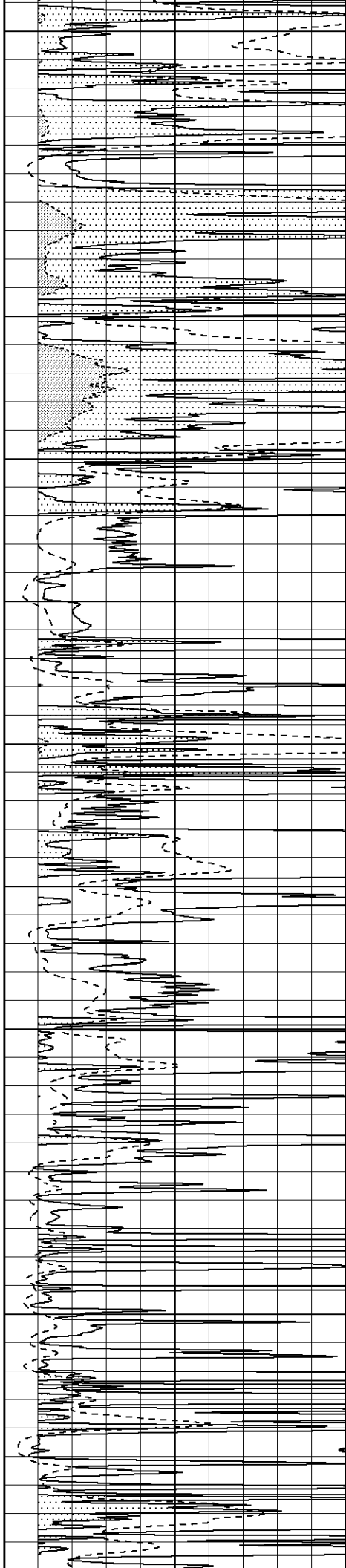
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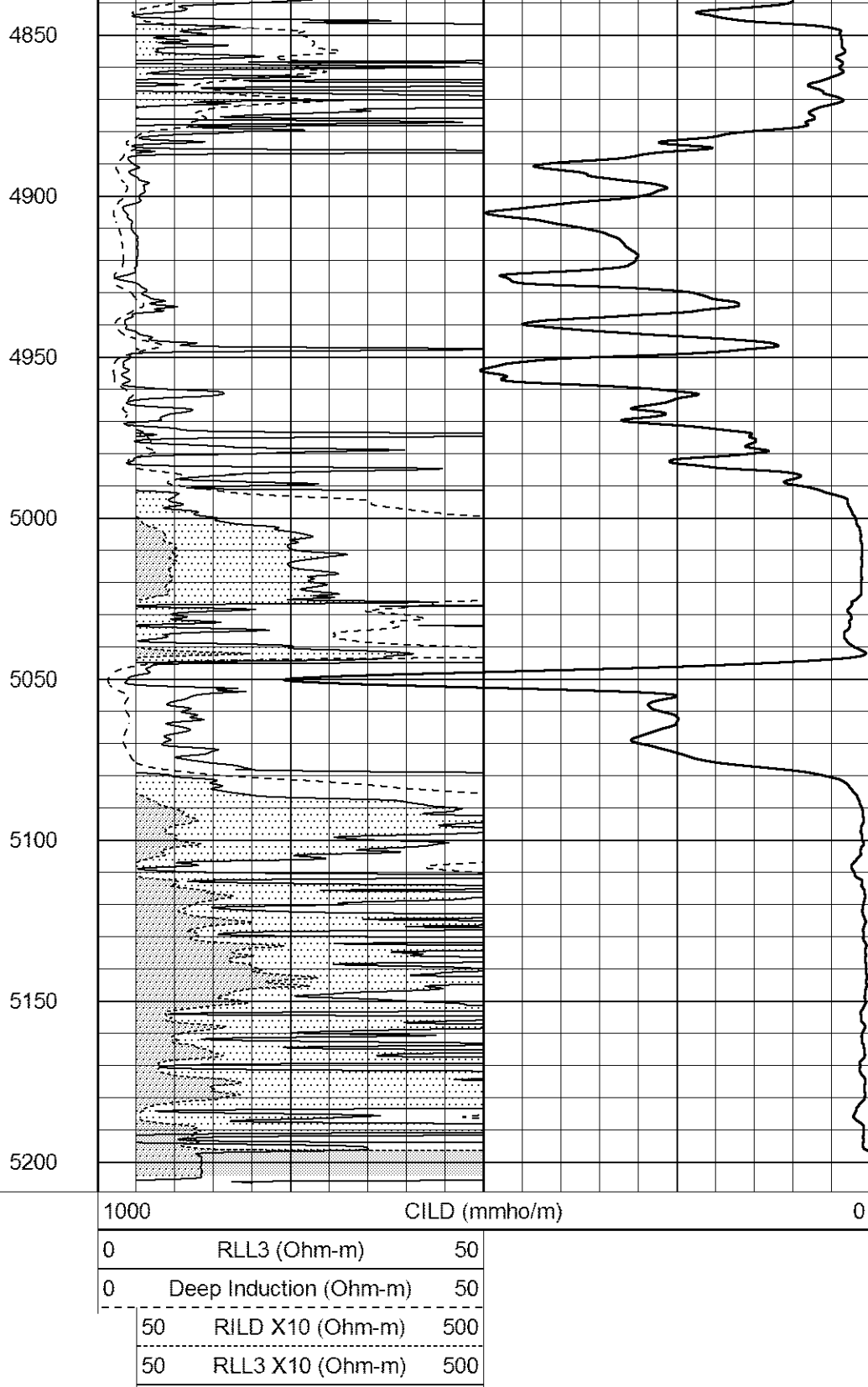
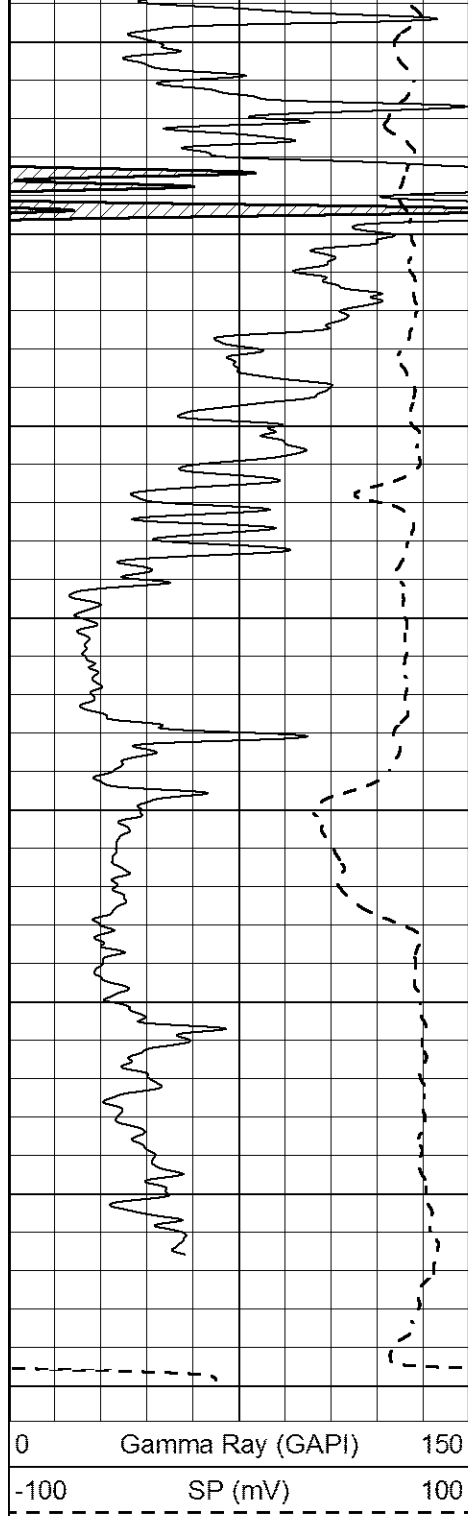
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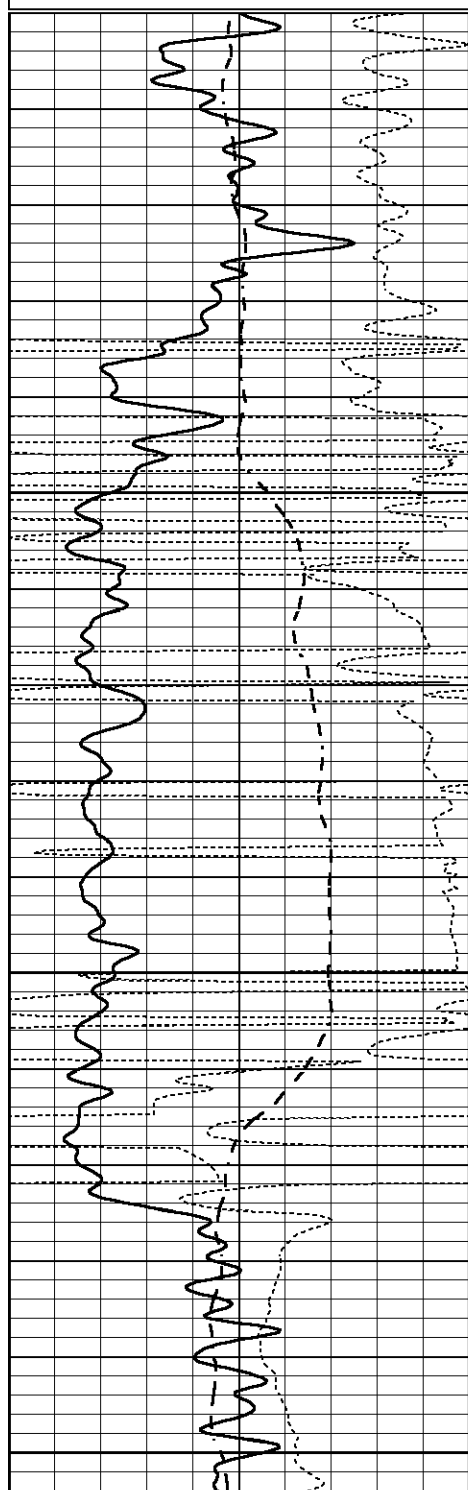




ANHYDRITE

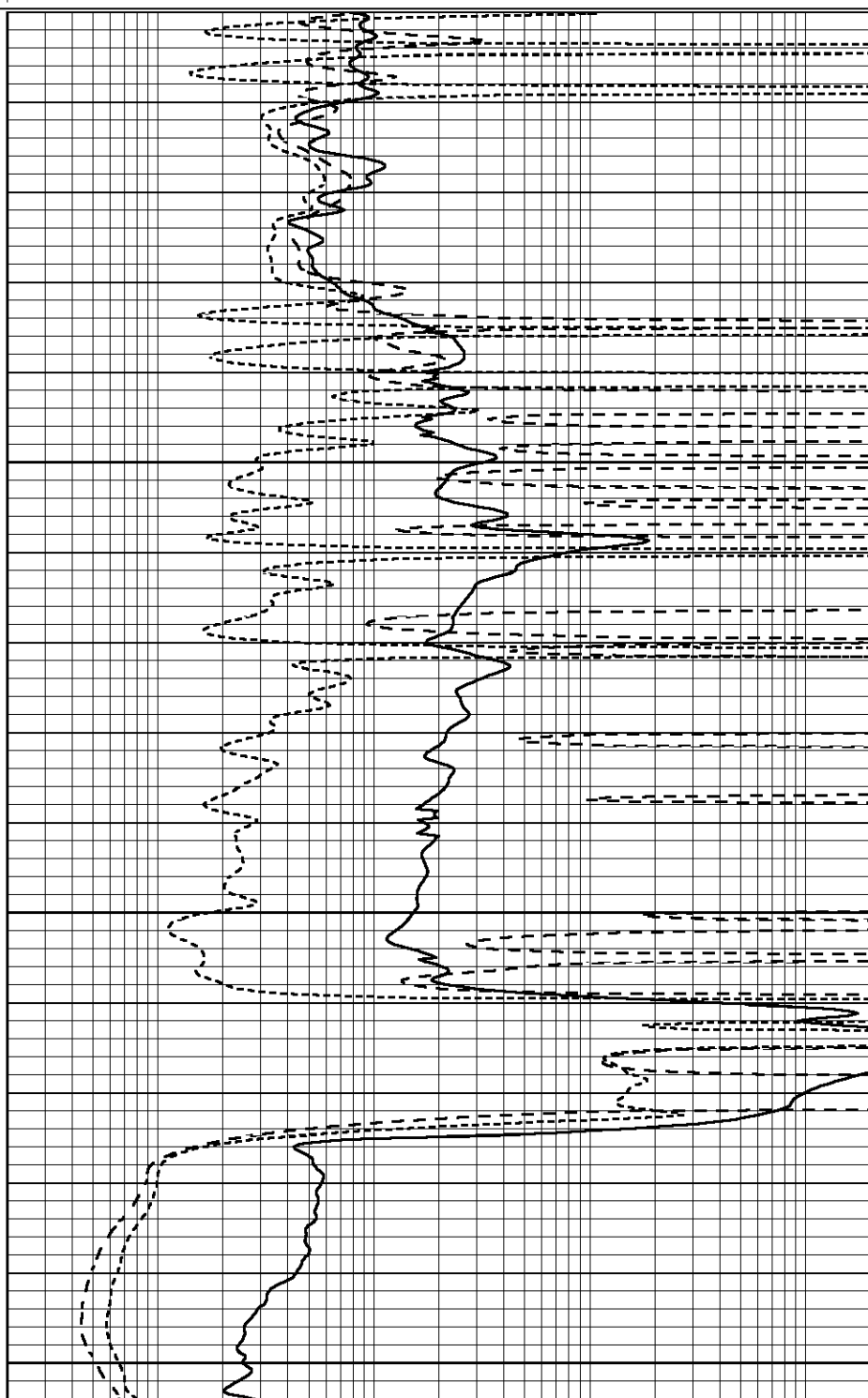
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 Presentation Format _dil
 Dataset Creation Sat Nov 05 04:37:47 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

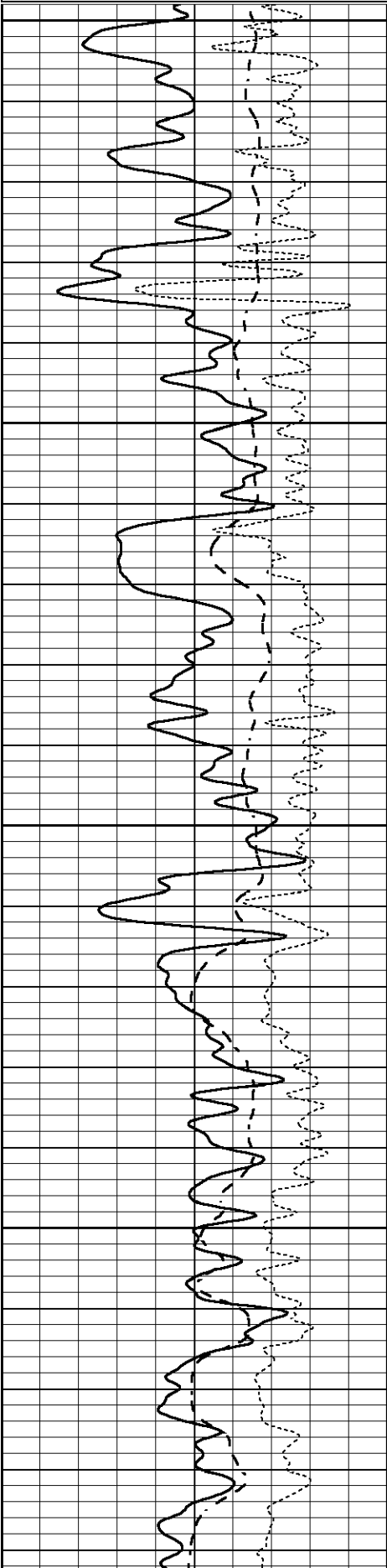


GAS SECTION

Database File 7246ddn.db
Dataset Pathname pass4G
Presentation Format dil

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

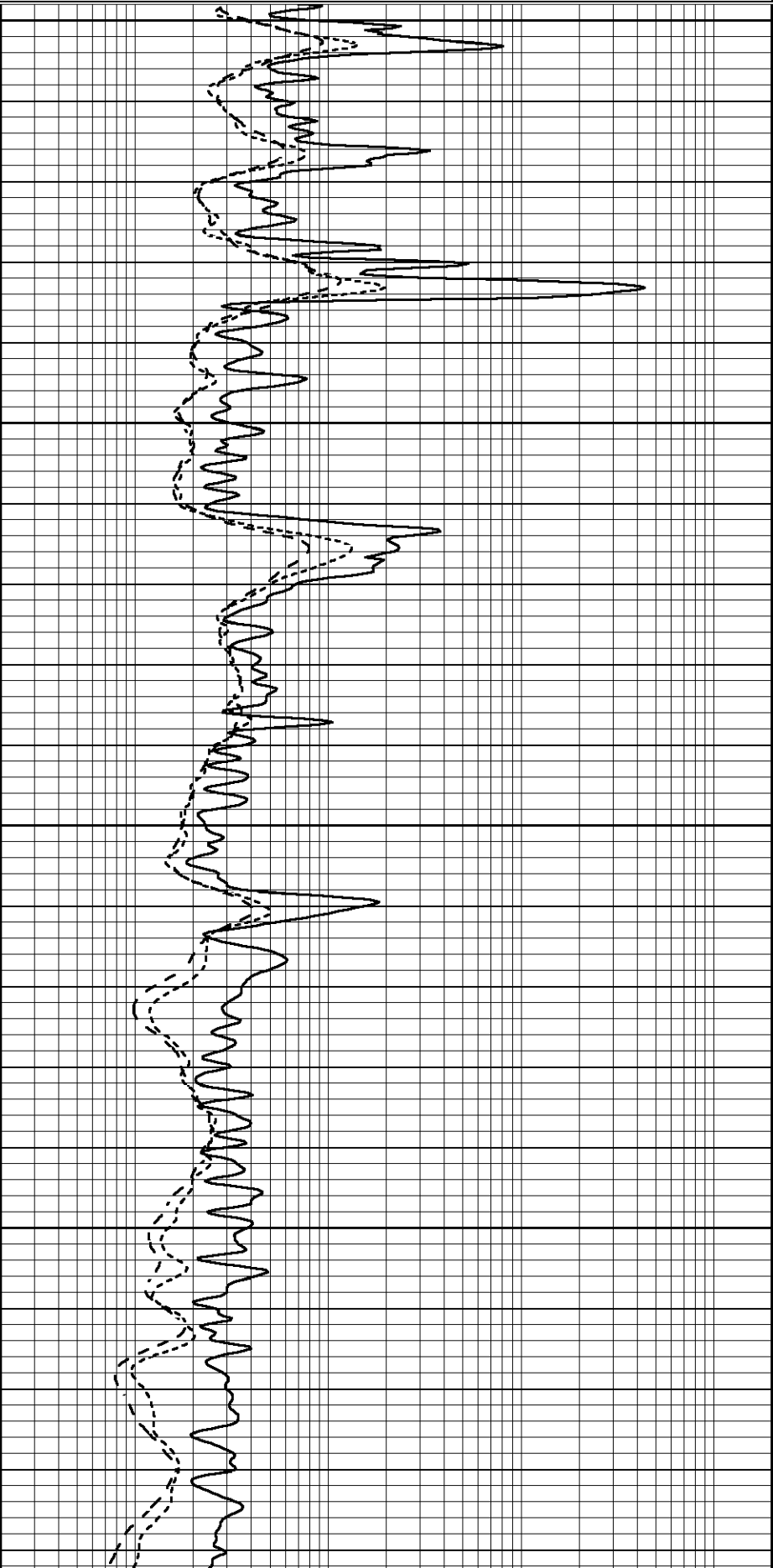


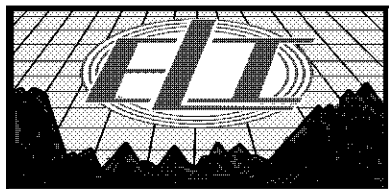
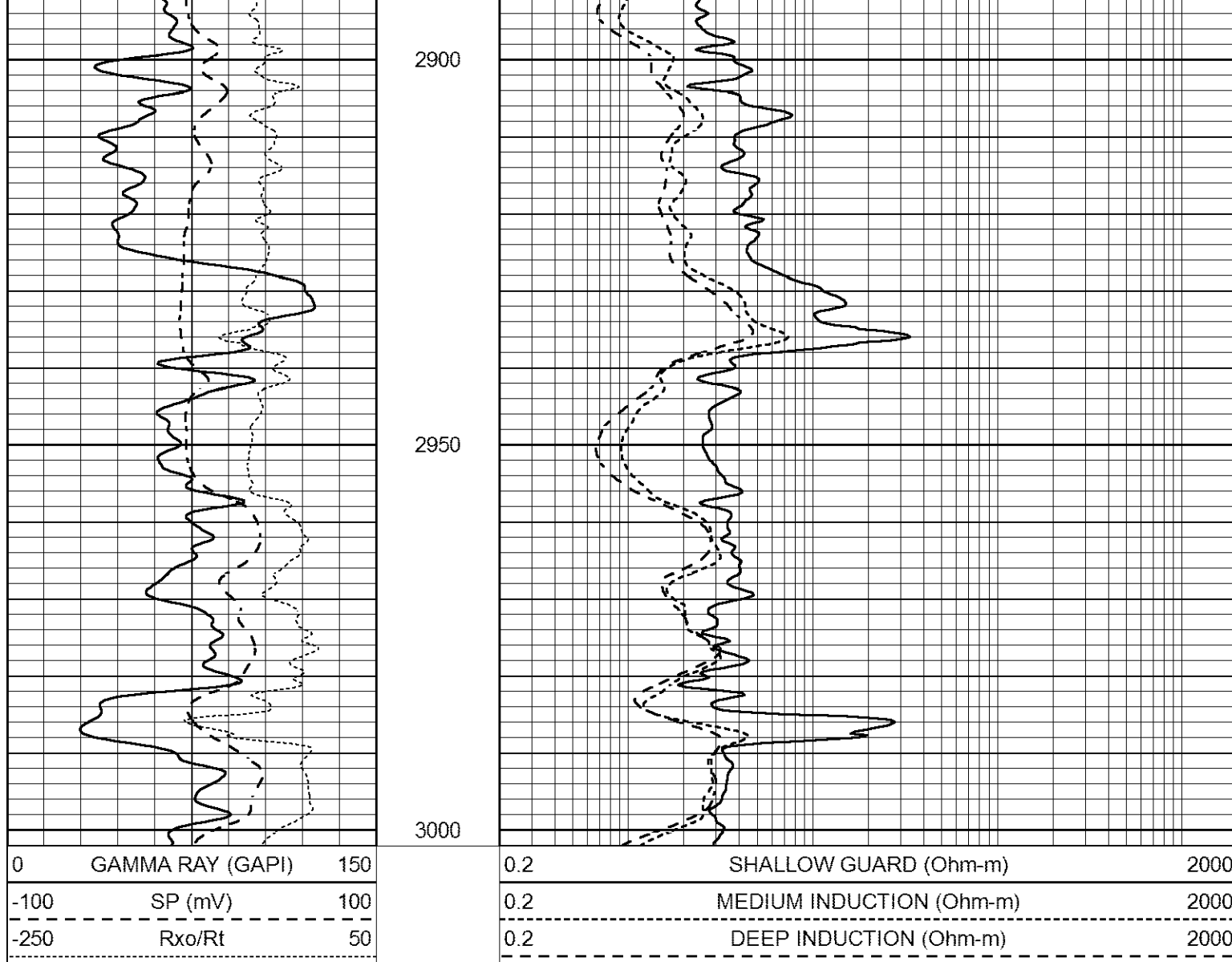
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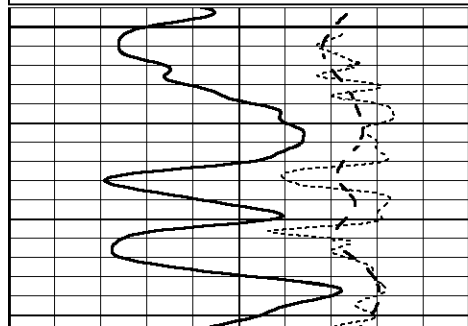
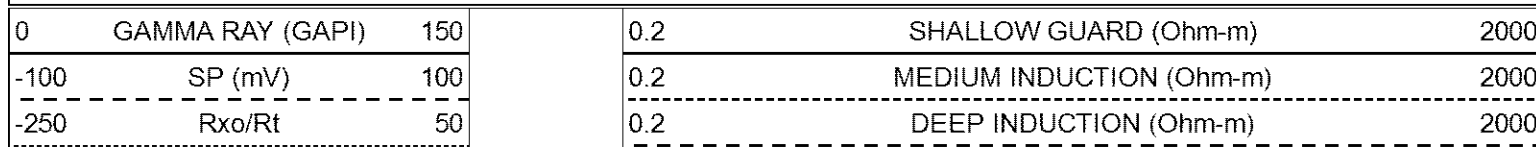
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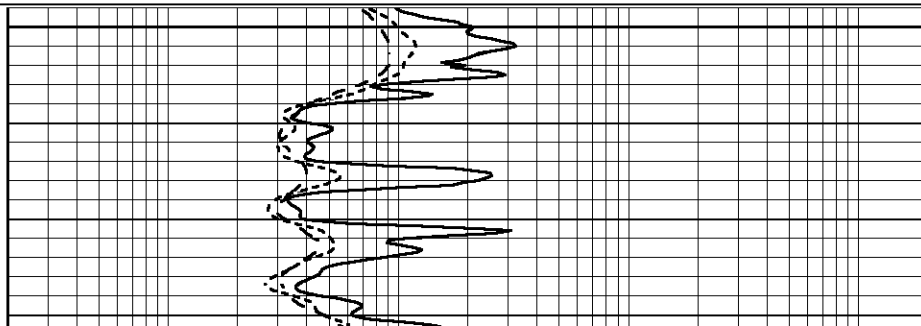


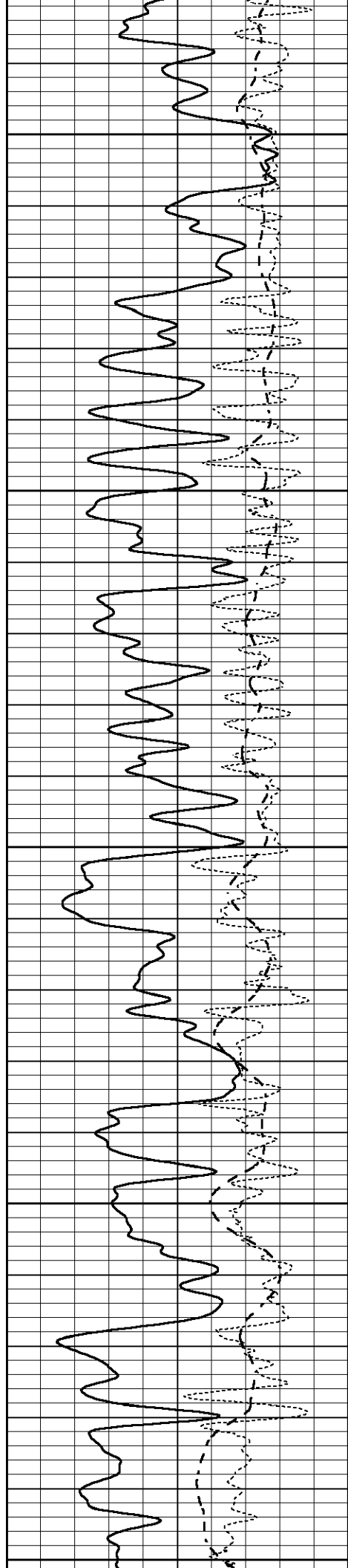
MAIN SECTION

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 Dataset Pathname pass3D
 Presentation Format _dil
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 Charted by Depth in Feet scaled 1:240



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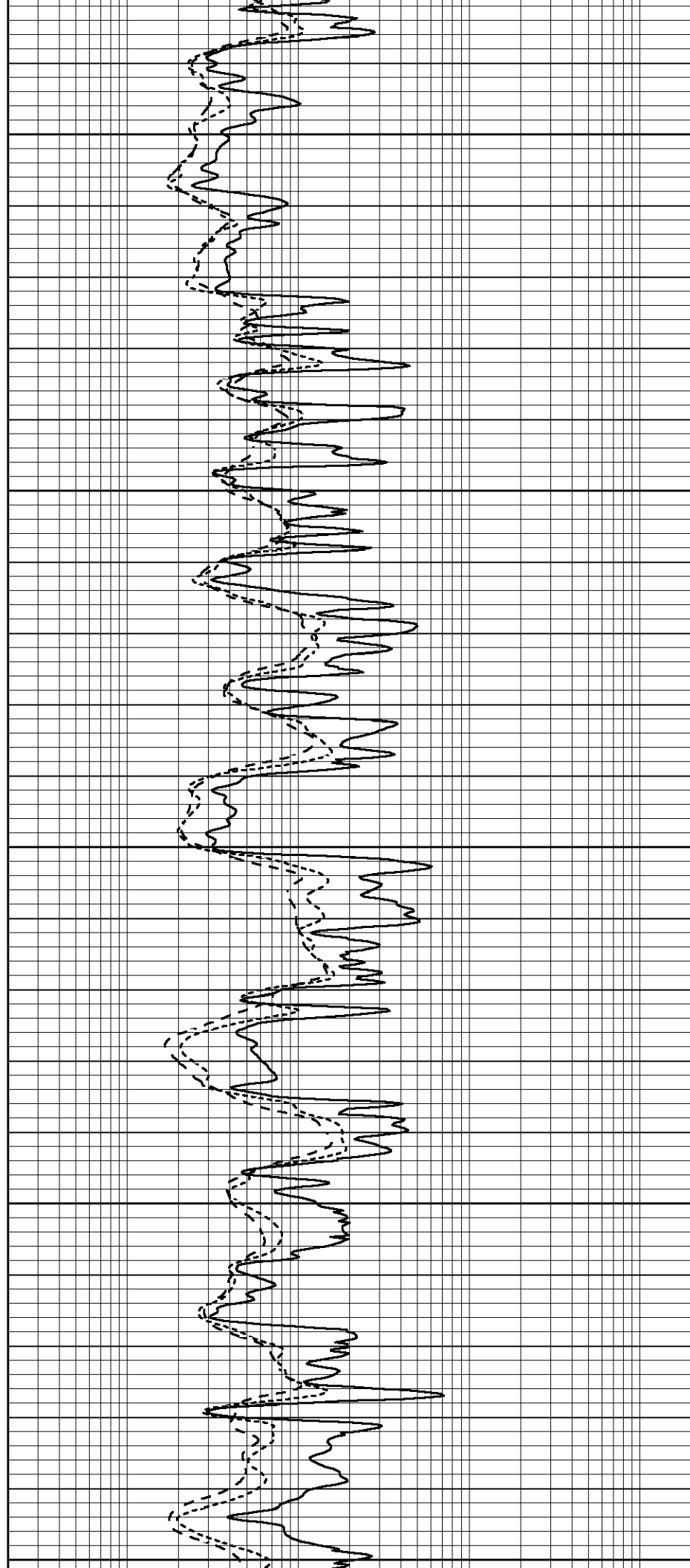
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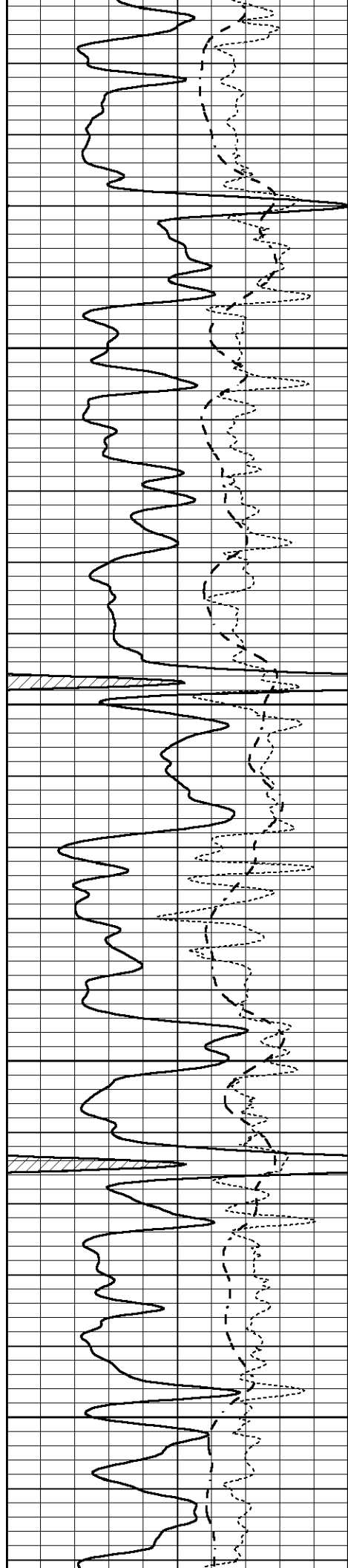
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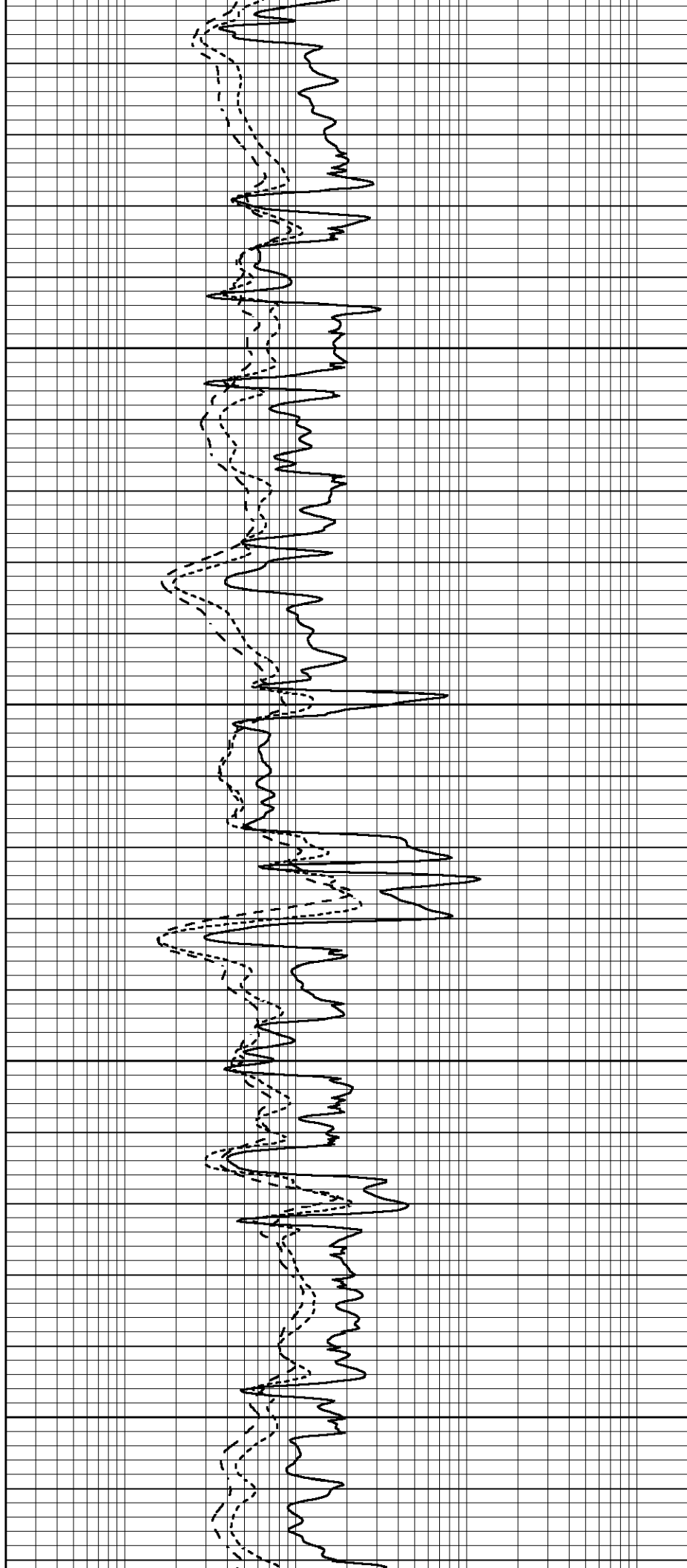


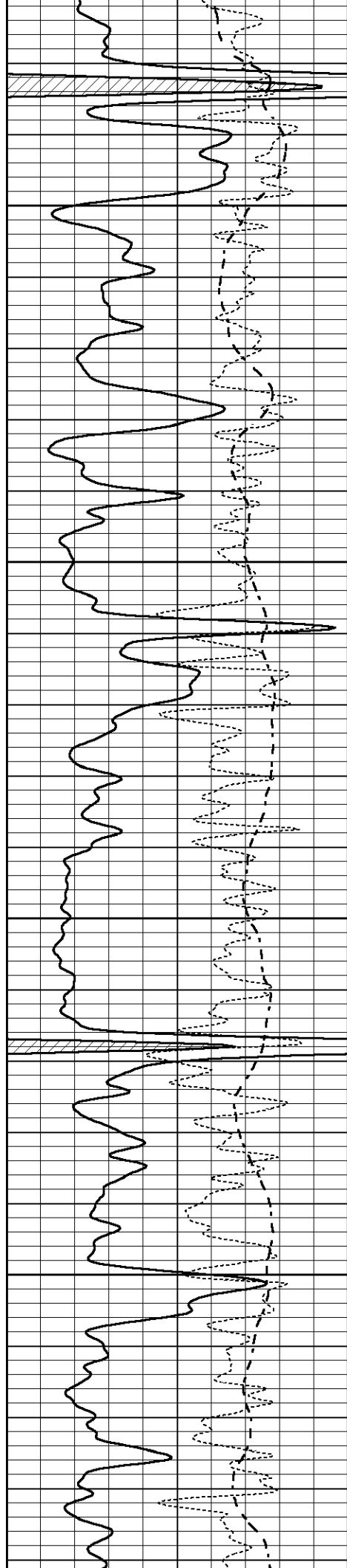
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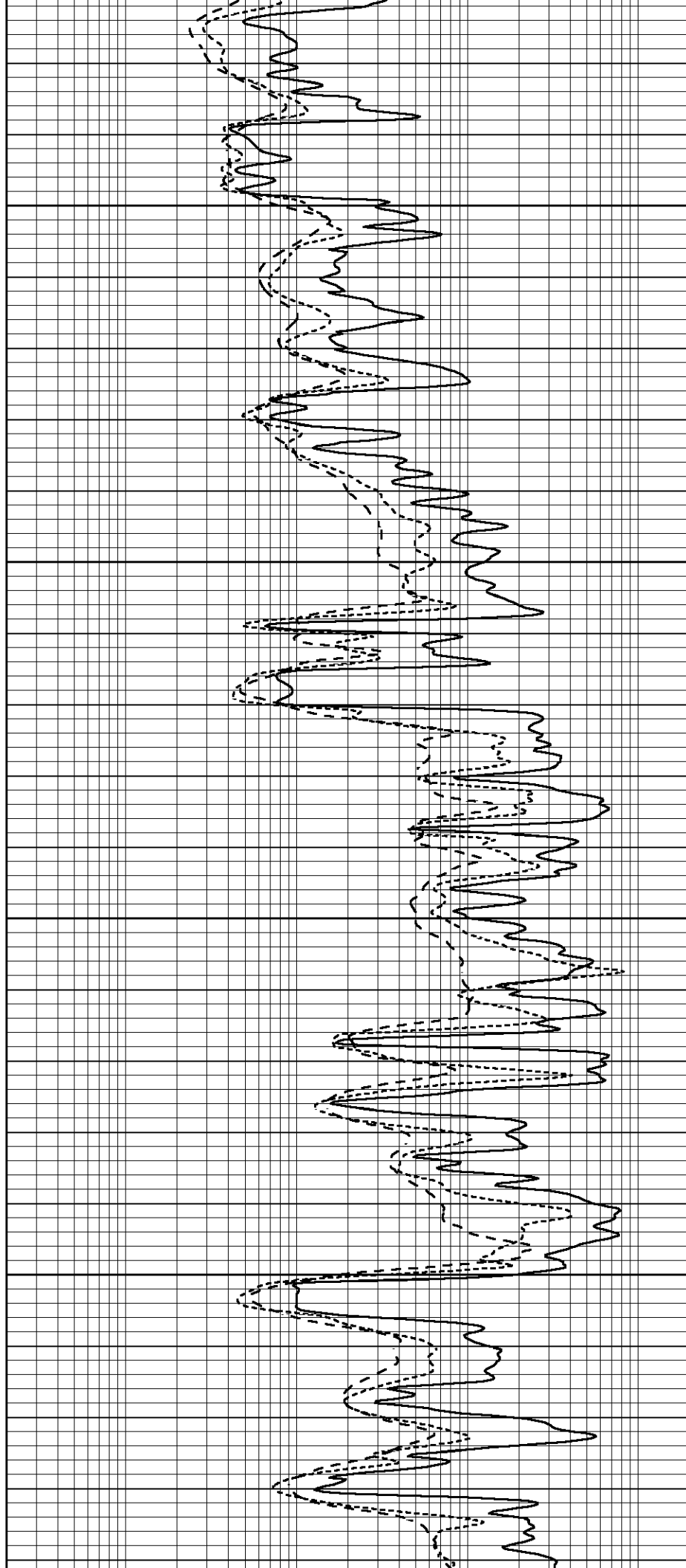


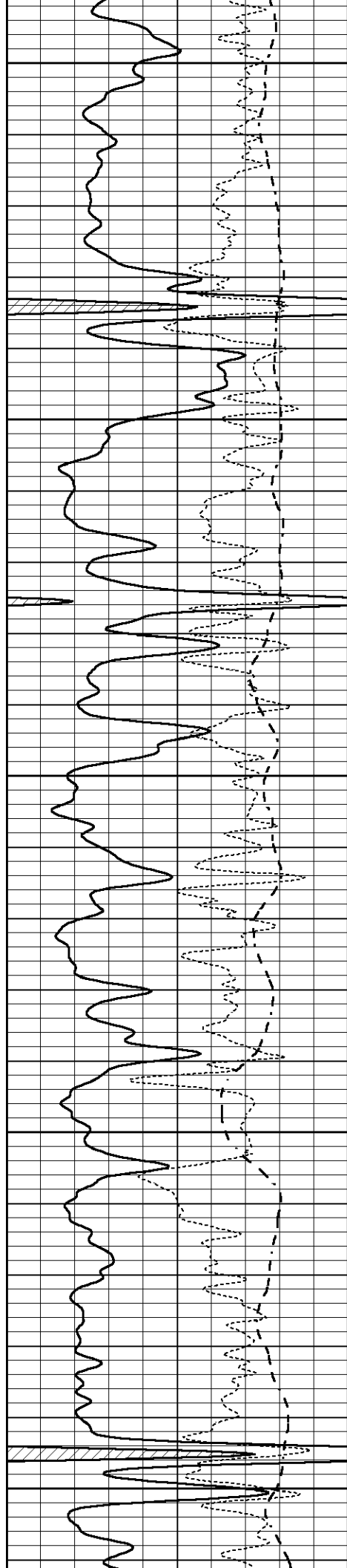
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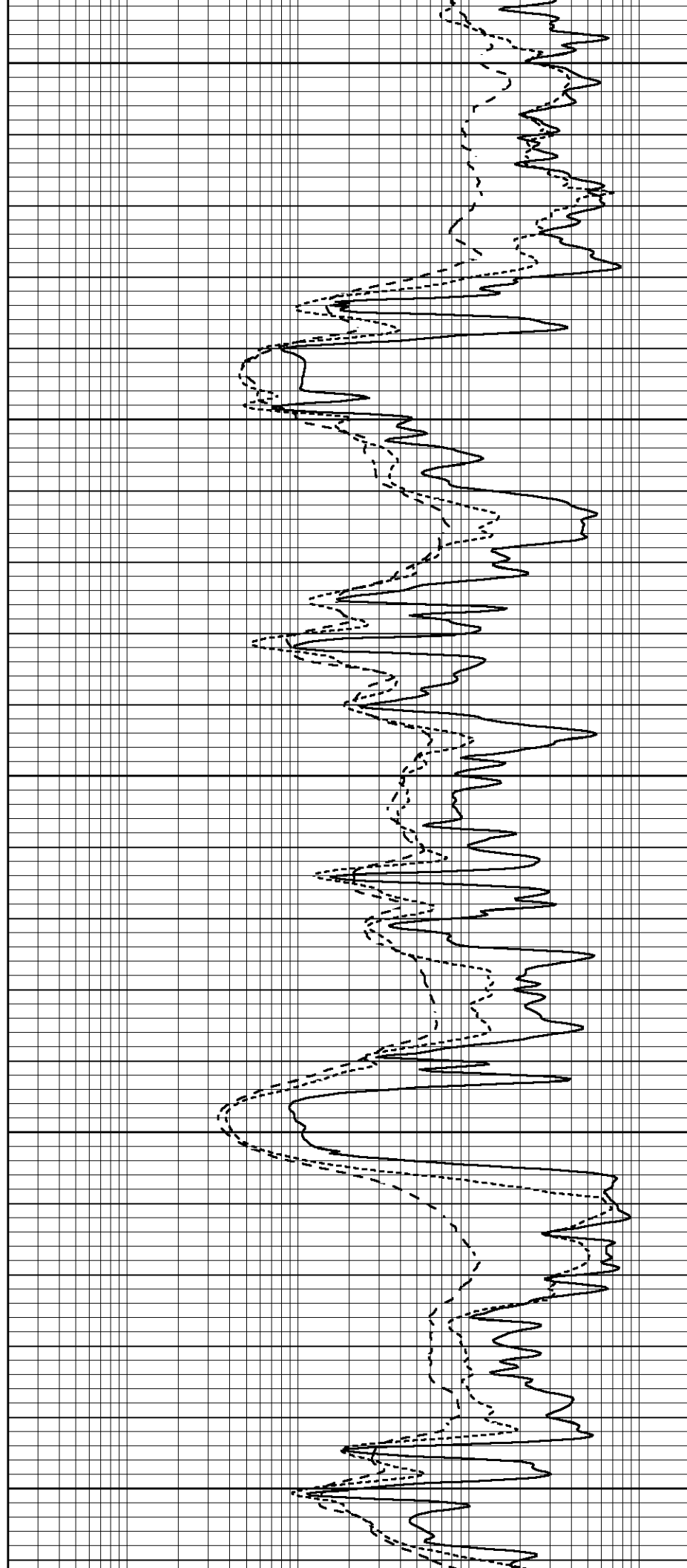
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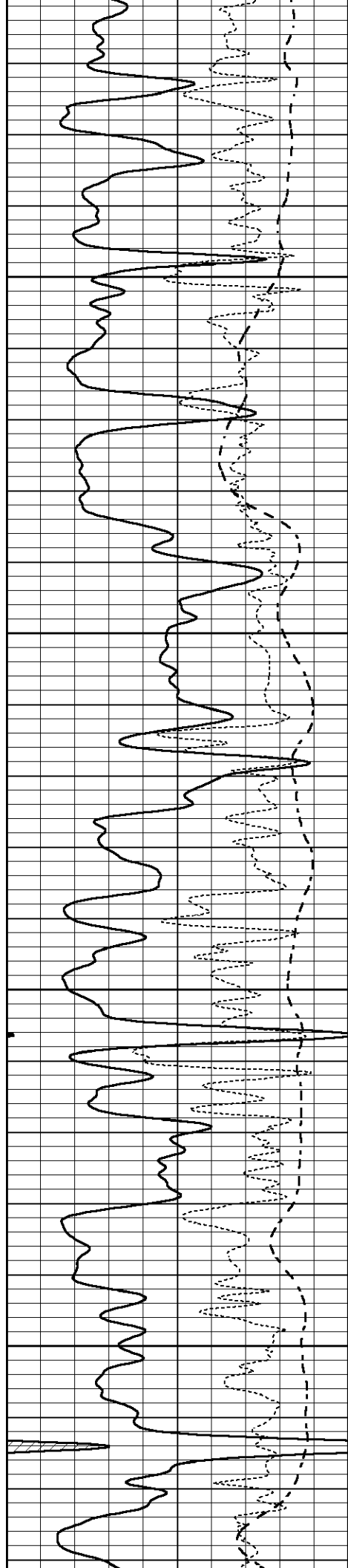
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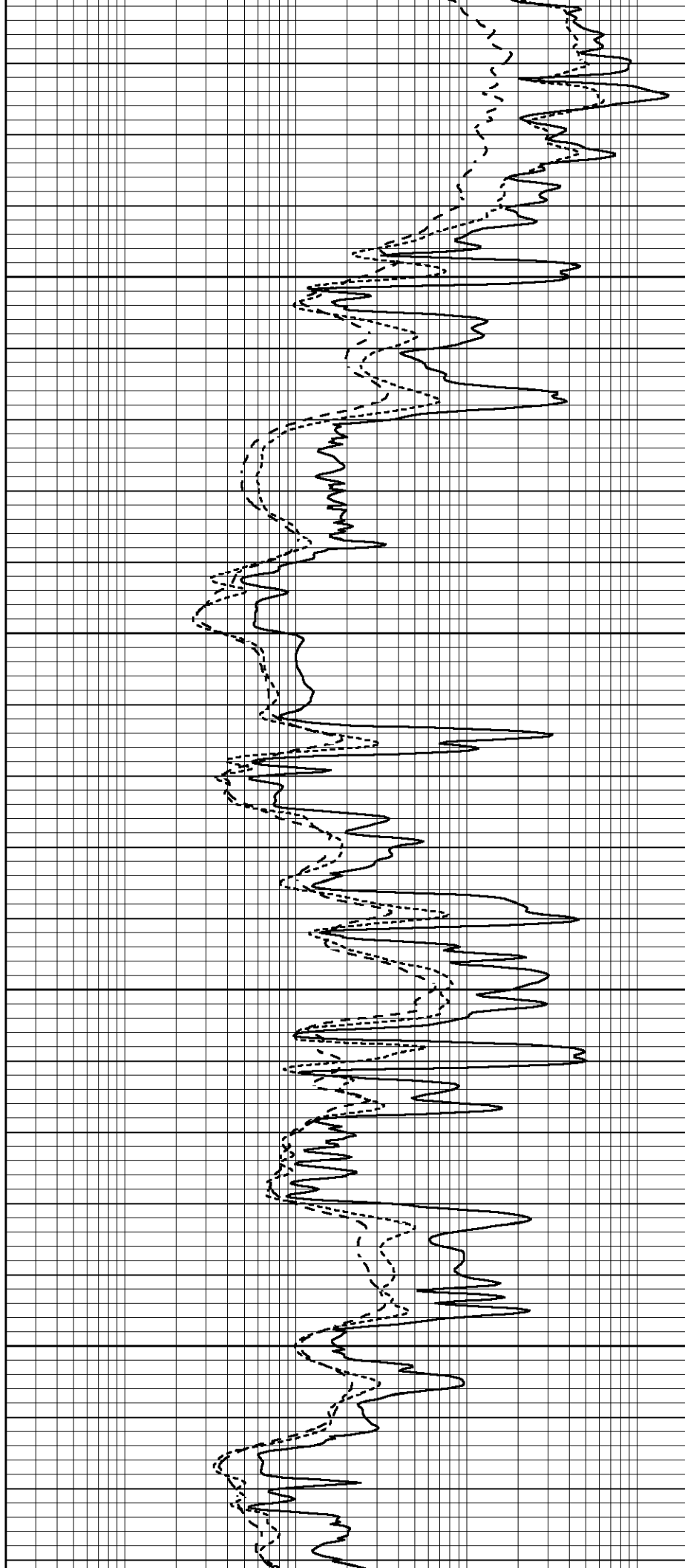


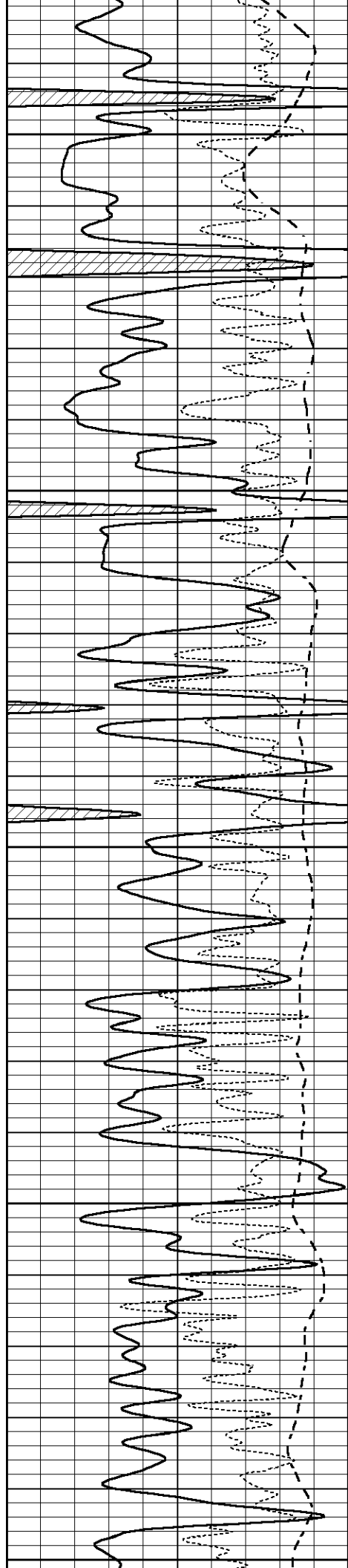
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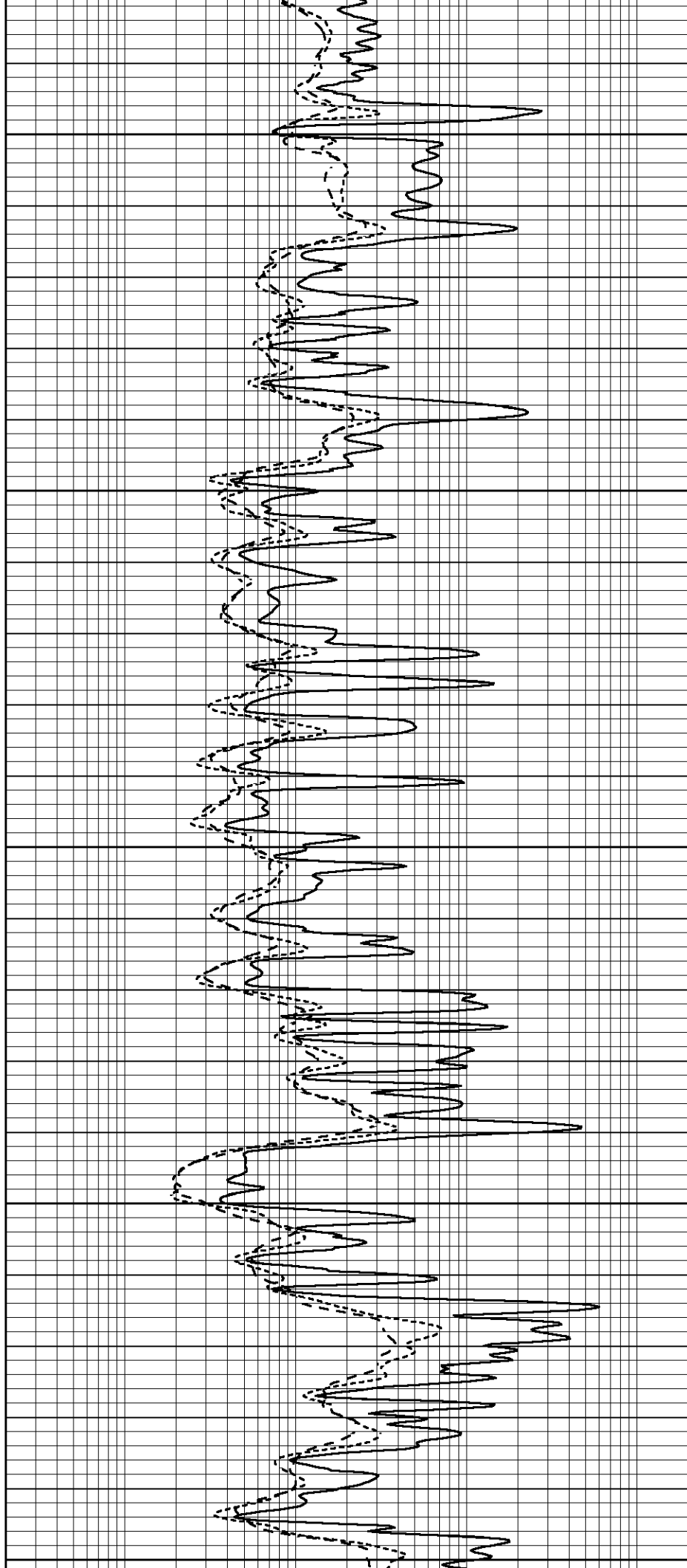
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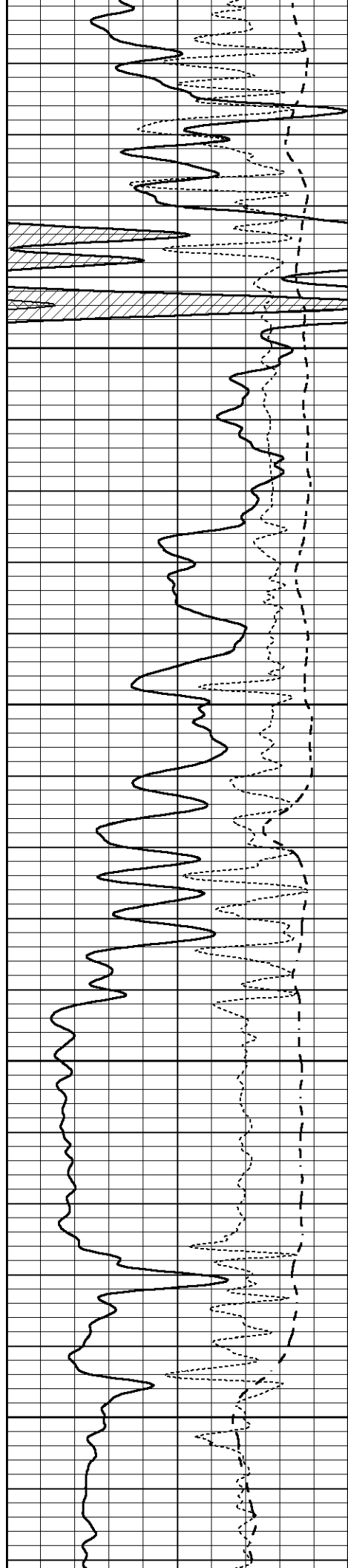
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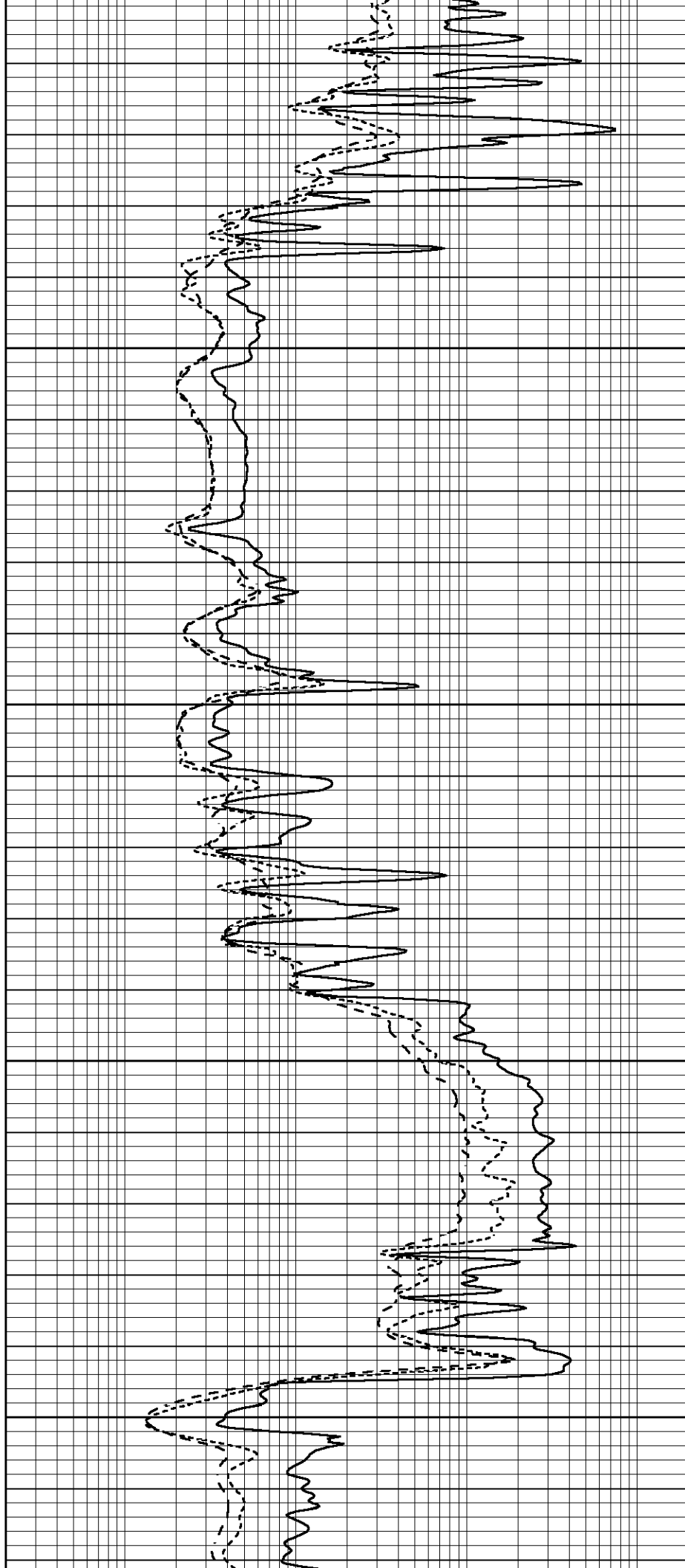


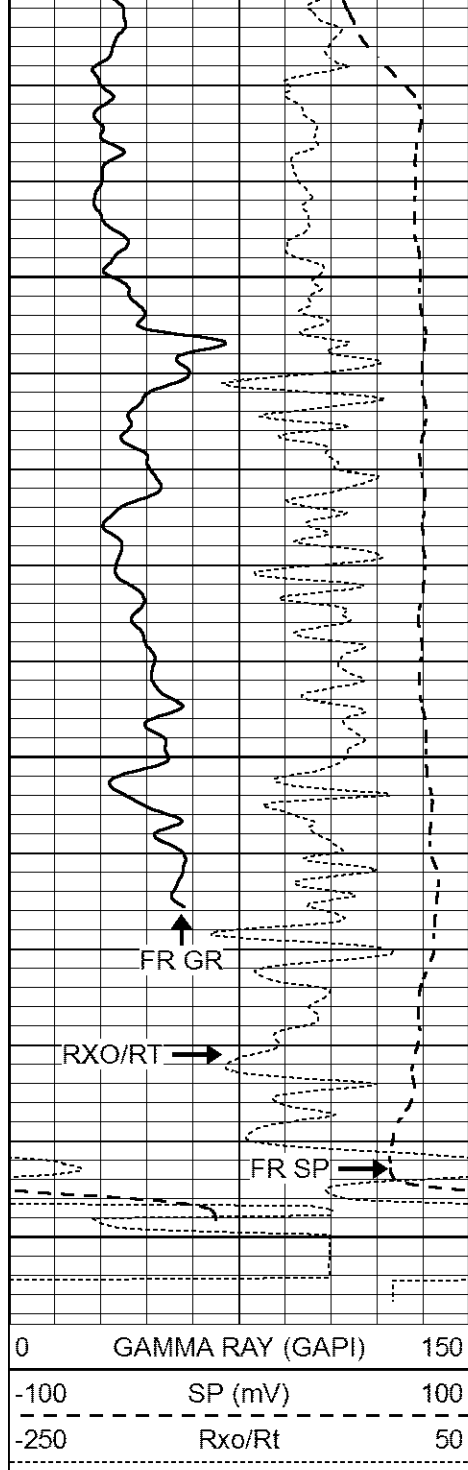
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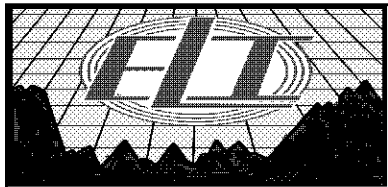
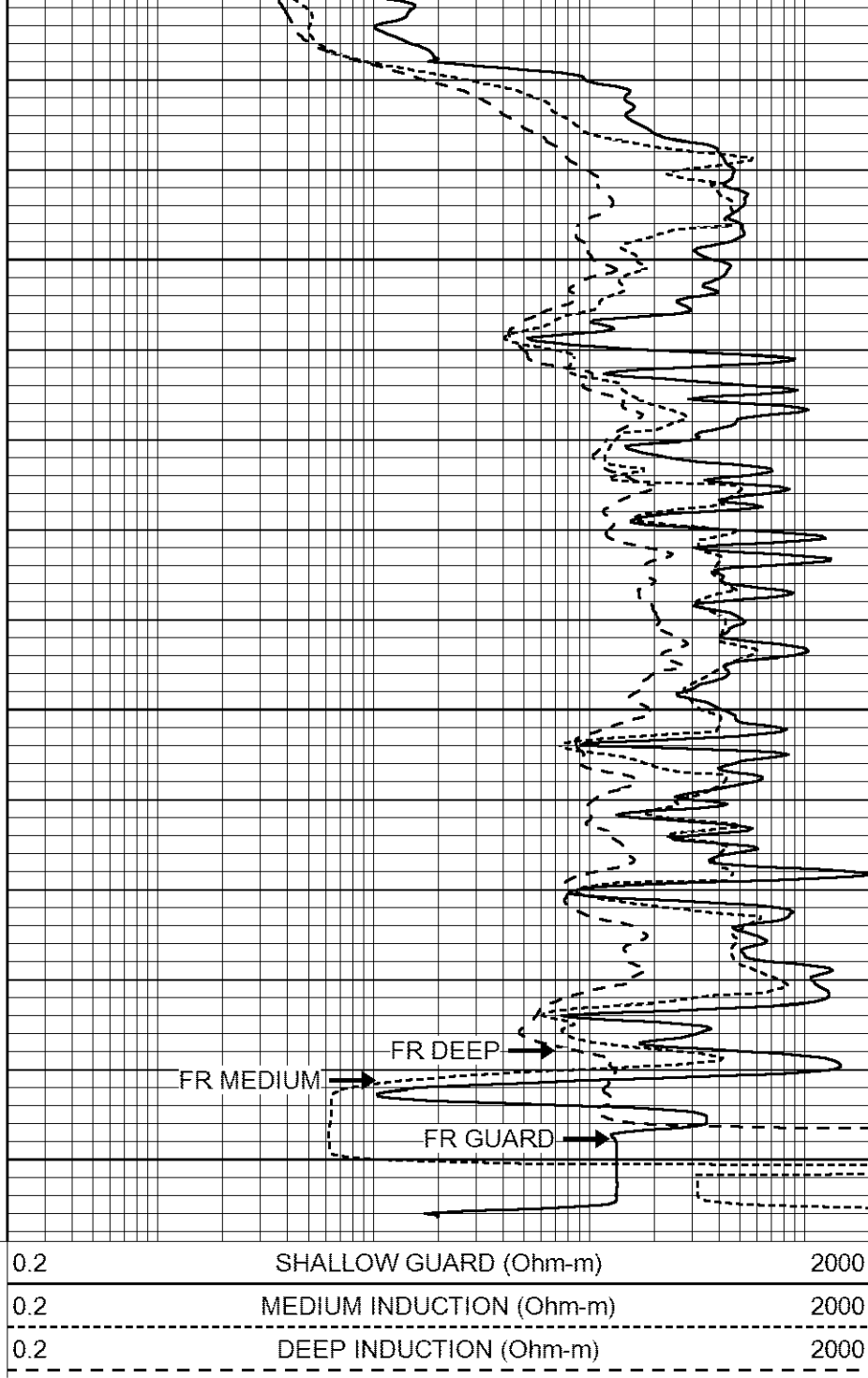




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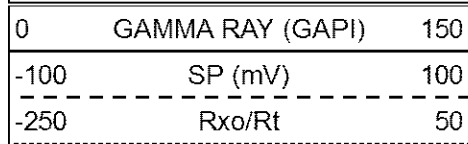
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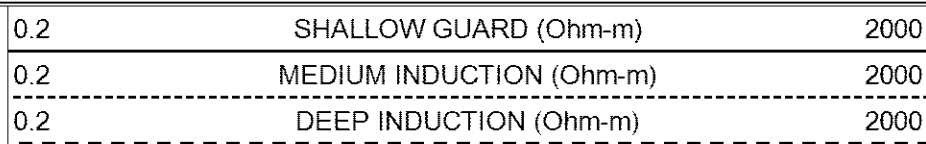


REPEAT SECTION

Database File 7246ddn.db
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 Presentation Format _dil
 Dataset Creation Sat Nov 05 04:44:14 2022
 Charted by Depth in Feet scaled 1:240



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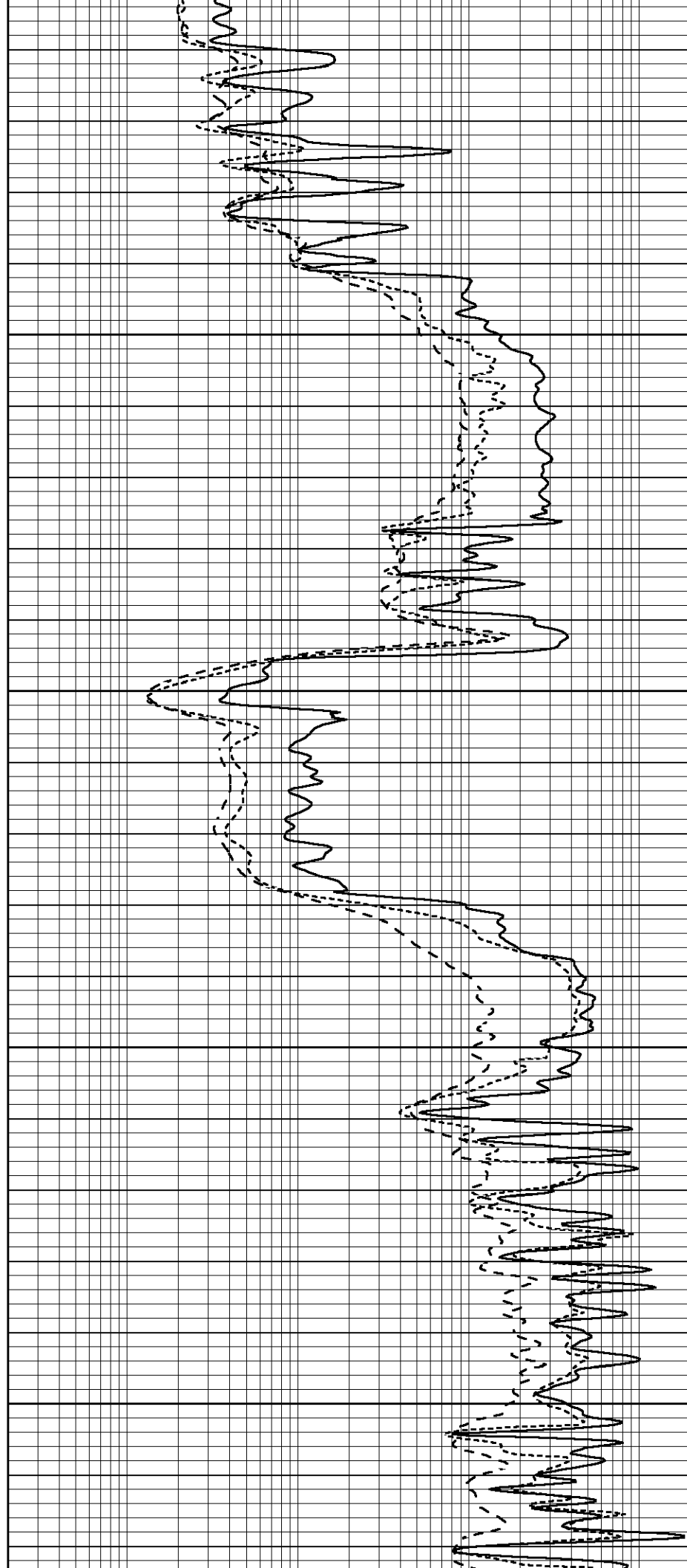


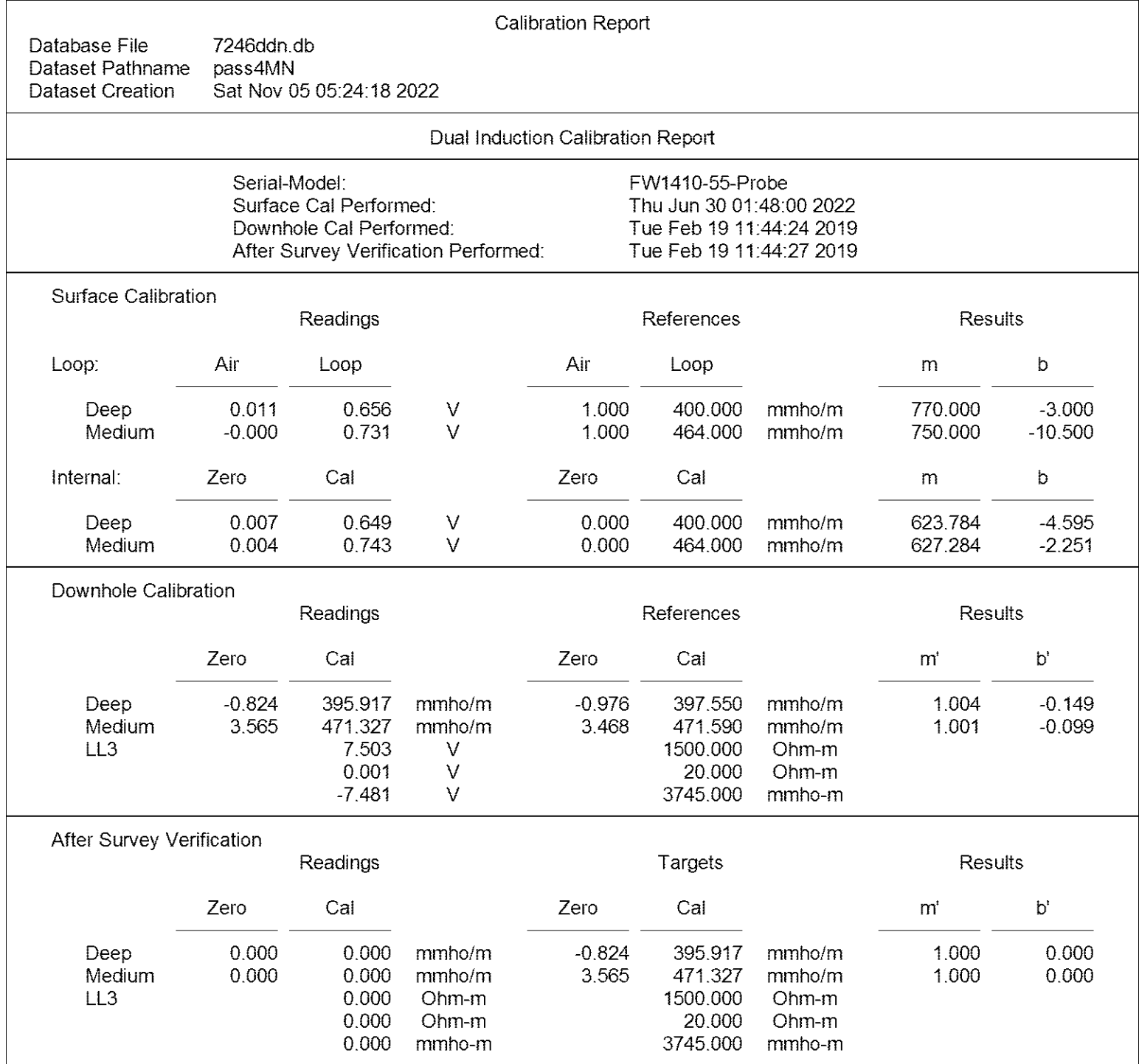
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5050

5100

5150





Serial: 140704

34 1 3 2 4 1 105

Master Calibration			Performed: Tue Oct 25 14:02:07 2022		
	Background	Aluminum	Magnesium		
Window 1	501.98	5377.33	23235.87	cps	
Window 2	38.66	1167.13	5462.52	cps	
Window 4	219.95	1265.38	5296.65	cps	
Window 5	535.47	7345.58	14269.59	cps	
Window 6	42.48	1172.64	2113.12	cps	
Window 8	252.82	2368.74	4743.90	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8018	SS Alpha:	: -0.8503	LS CPE:	: 1.2527
LS Beta:	: 116585.8005	SS Beta:	: 19984.2984	SS CPE:	: 1.5732

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969		
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			
Window 5	0.00	cps			
Window 6	0.00	cps			
Window 8	0.00	cps			

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969		
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			
Window 5	0.00	cps			
Window 6	0.00	cps			
Window 8	0.00	cps			

Lithodensity Caliper Calibration			Performed: Tue Oct 25 14:02:07 2022		
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
9378.6	12243.0	8.0	14.0	0.0	-11.8

Before Survey Caliper Verification			Performed:		
	Reference	Reading			
Caliper (in)	_____	_____			

After Survey Caliper Verification			Performed:		
	Reference	Reading			
Caliper (in)	_____	_____			

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:	Thu May 26 08:56:46 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps