

DUAL INDUCTION LOG

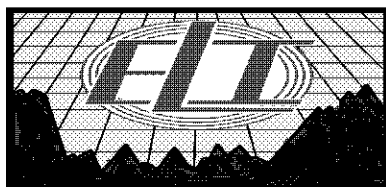
Company	DIXON OPERATING COMPANY, LLC.	
Well	THOMAS FORSYTH #18	
Field	MEDICINE LODGE NORTH	
County	BARBER	State KANSAS
Location:	API # : 15-007-24343-0000	
Permanent Datum	SEC 29 TWP 32S RGE 12W	Other Services CDL/CNL PE/MEL
Log Measured From	GROUND LEVEL Elevation 1603	
Drilling Measured From	KELLY BUSHING 10' A.G.L. KELLY BUSHING	Elevation K.B. 1613 D.F. 1611 G.L. 1603
Date	1/16/19	
Run Number	ONE	
Depth Driller	4820	
Depth Logger	4824	
Bottom Logged Interval	4822	
Top Log Interval	00	
Casing Driller	8 5/8" @ 308	
Casing Logger	306	
Bit Size	7 7/8	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM
Density / Viscosity	9.4/54	
pH / Fluid Loss	10.0/8.0	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.75 @ 65F	
Rmf @ Meas. Temp	.56 @ 65F	
Rmc @ Meas. Temp	.90 @ 65F	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.39 @ 123F	
Time Circulation Stopped	2 HOURS	
Time Logger on Bottom	////	
Maximum Recorded Temperature	123F	
Equipment Number	3802	
Location	HAYS, KANSAS	
Recorded By	JASON CAPPELLUCCI	
Witnessed By	BRUCE REED	

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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

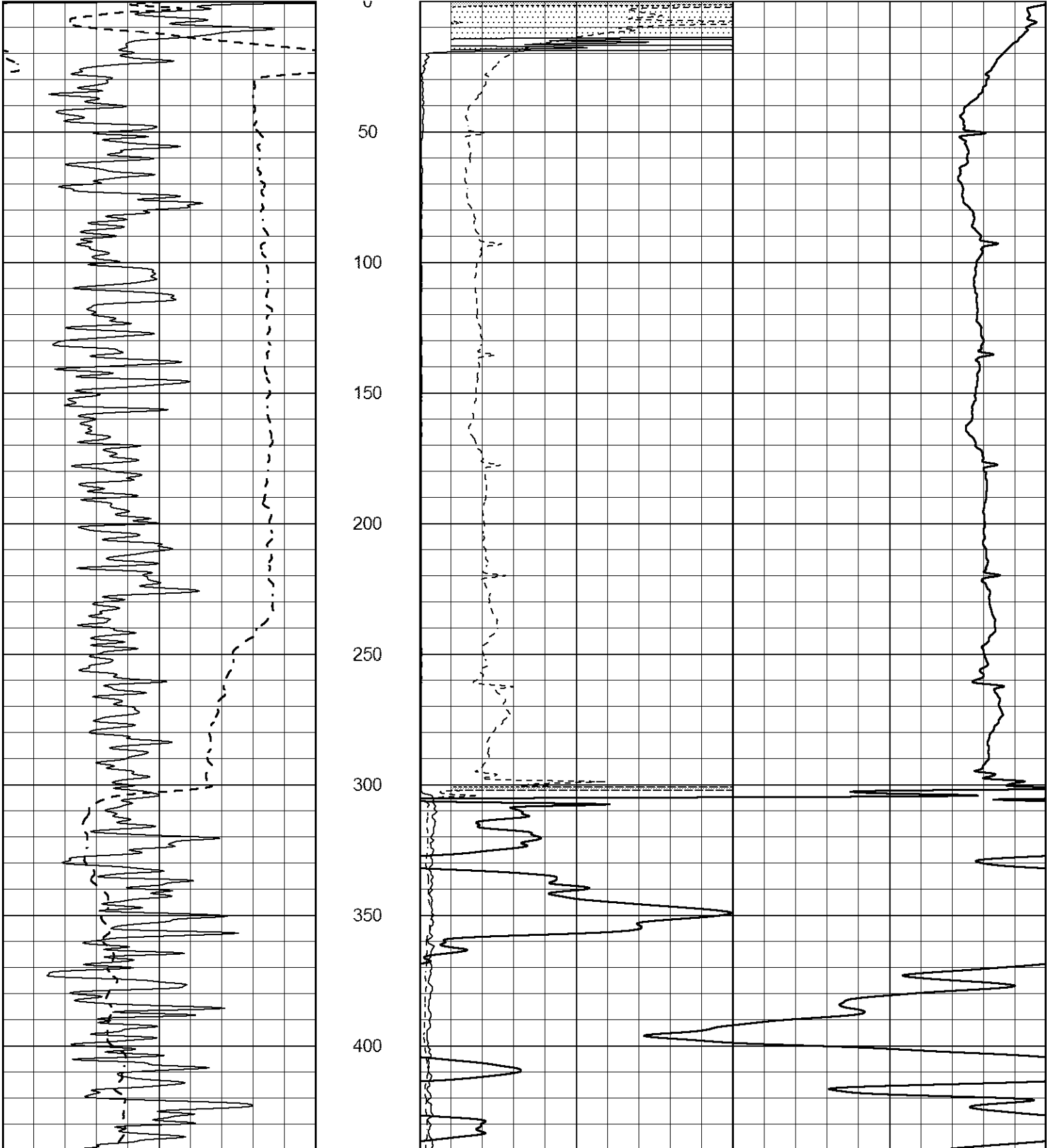
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS. - WEST ON HWY 160 TO GYP HILL RD. - SOUTH TO RED ROCK RD.
1/2 EAST - SOUTH THROUGH GATE - STAY SOUTH AND TO THE LEFT
JUST BEFORE THE TANK BATTERY GO WEST INTO

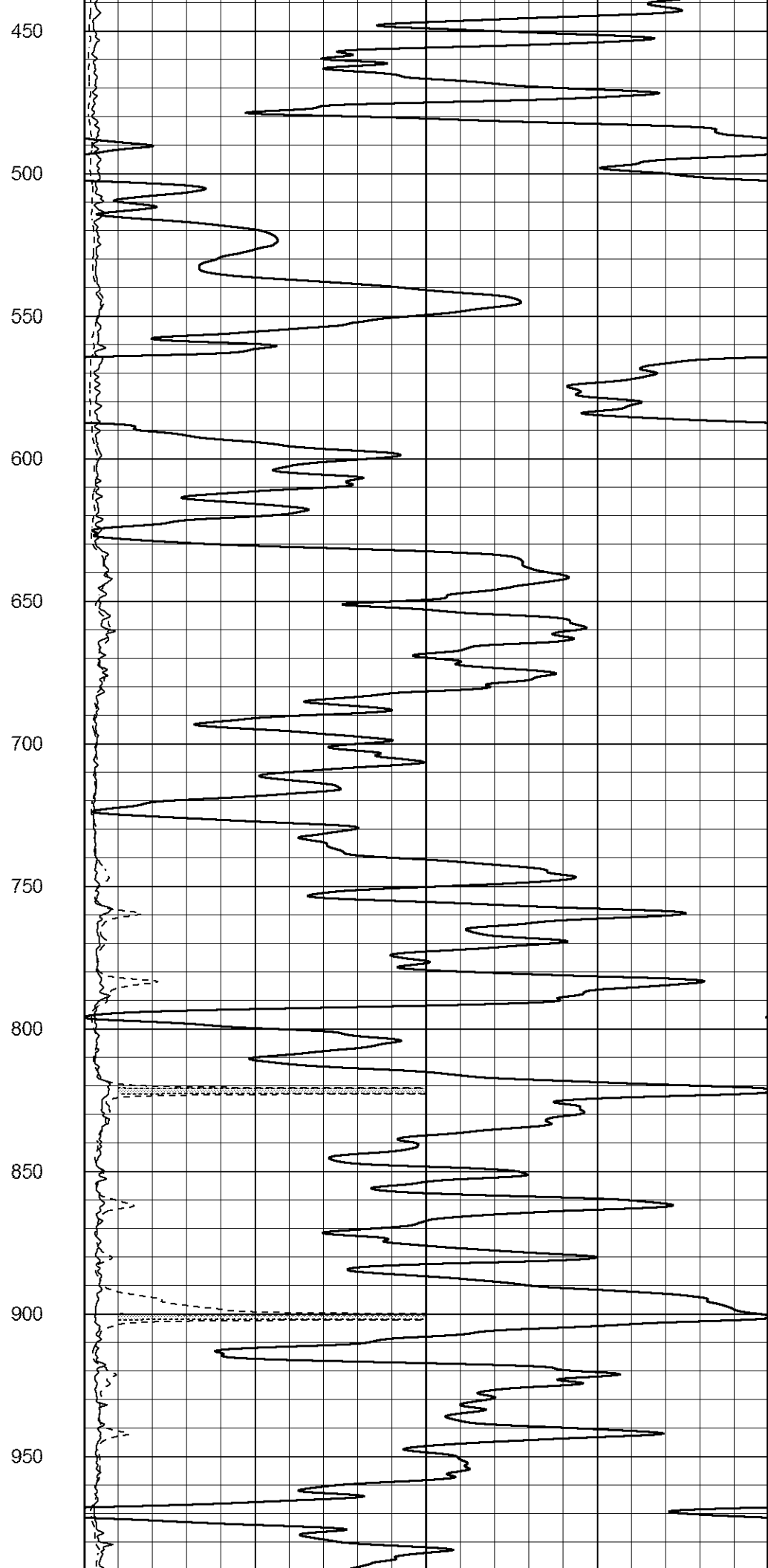
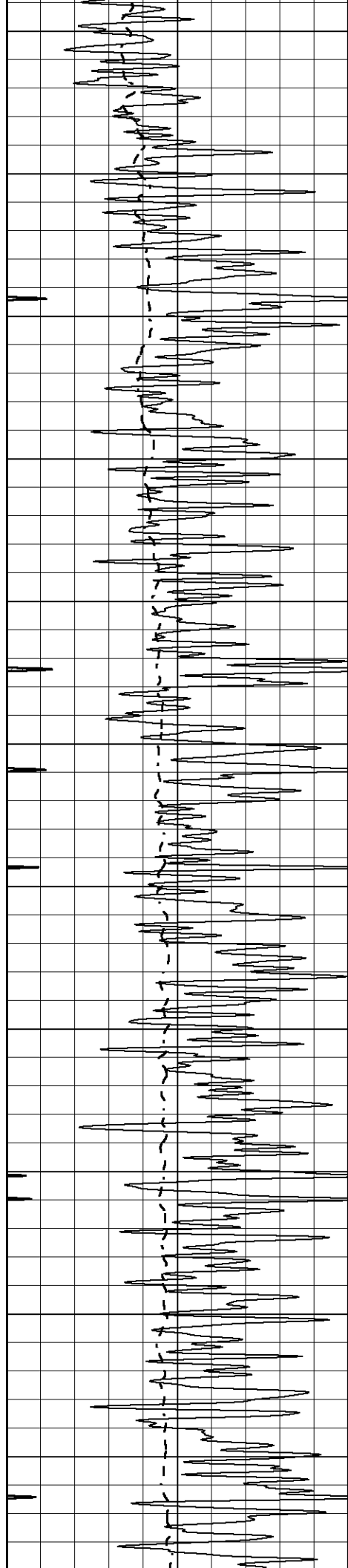


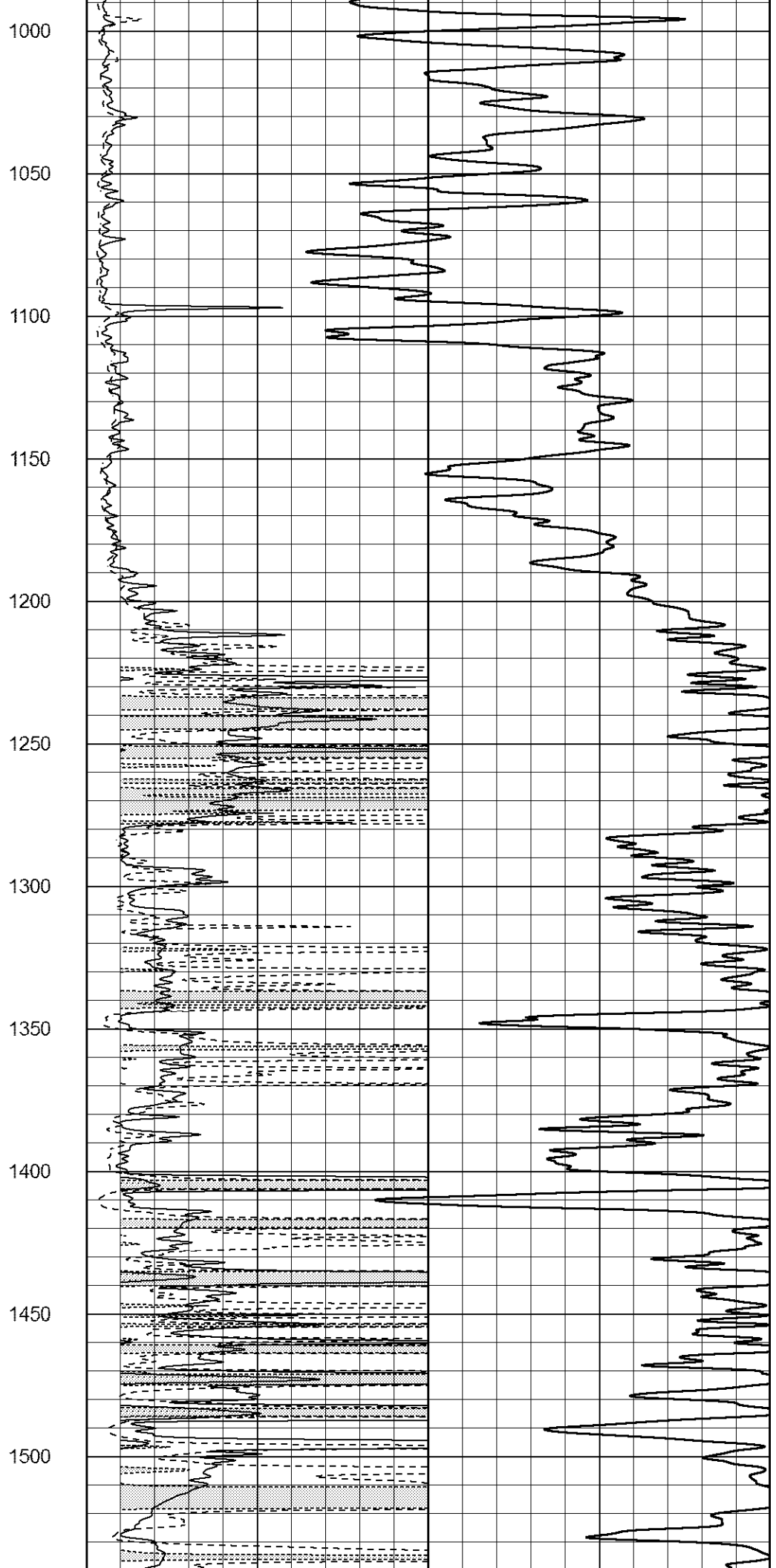
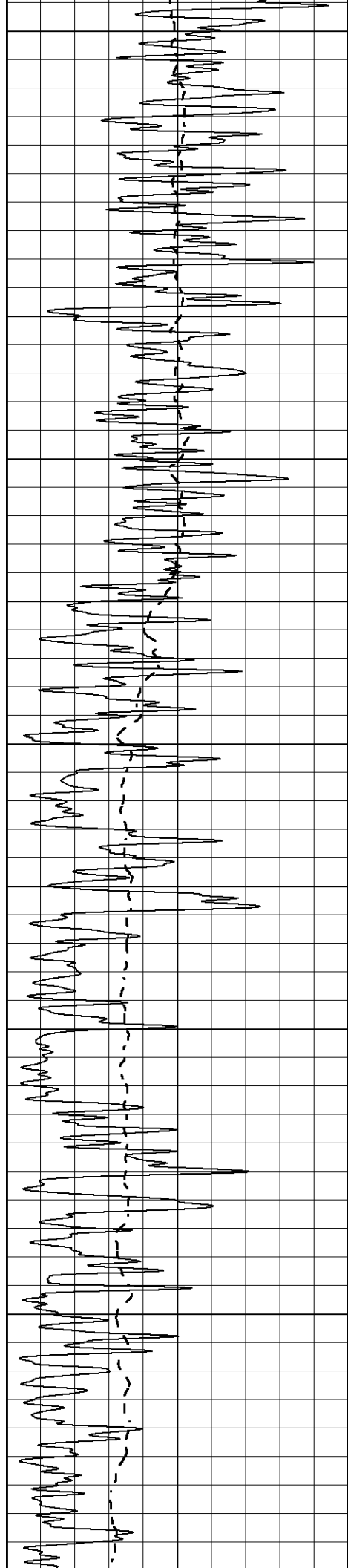
MAIN SECTION

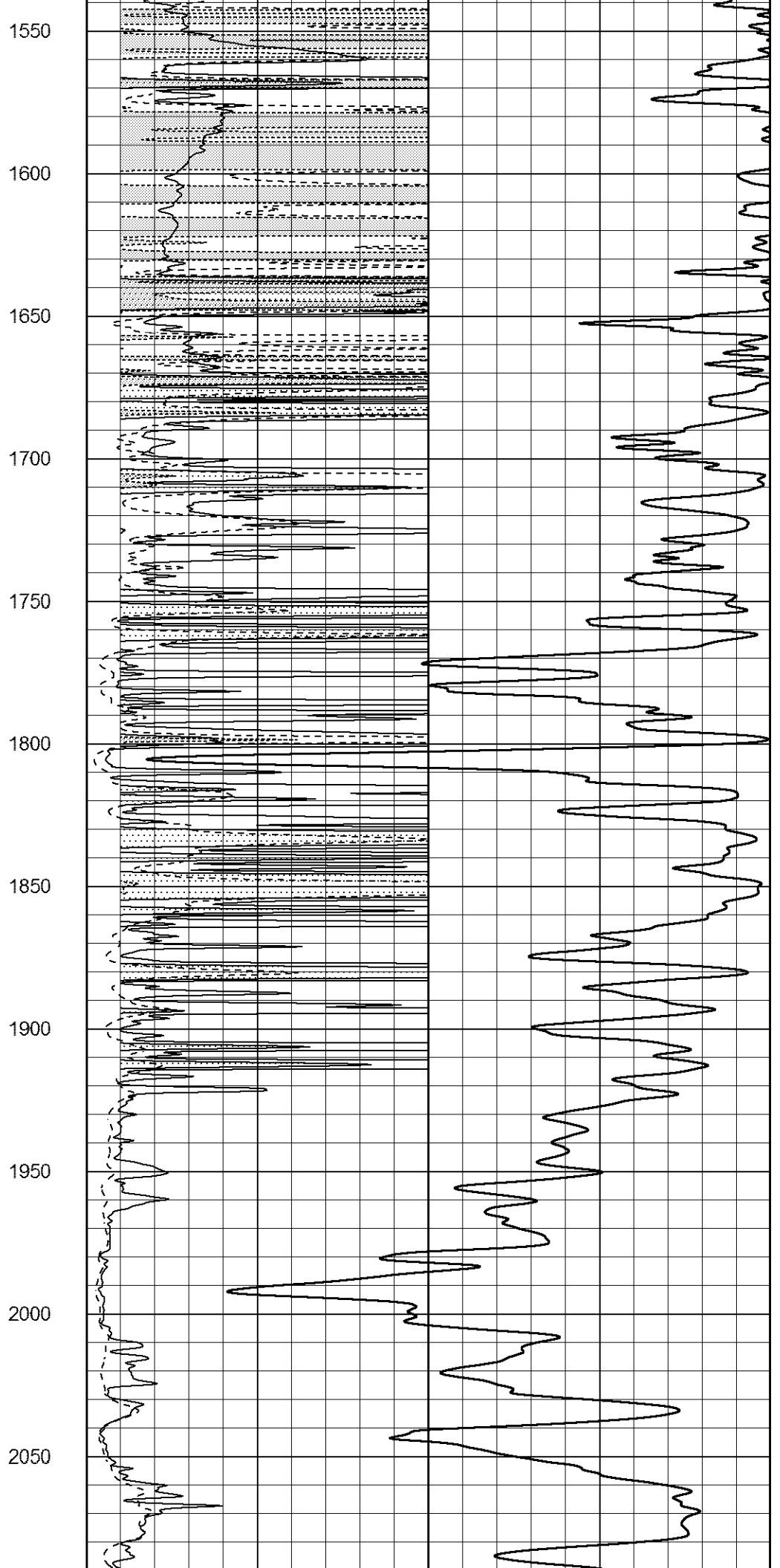
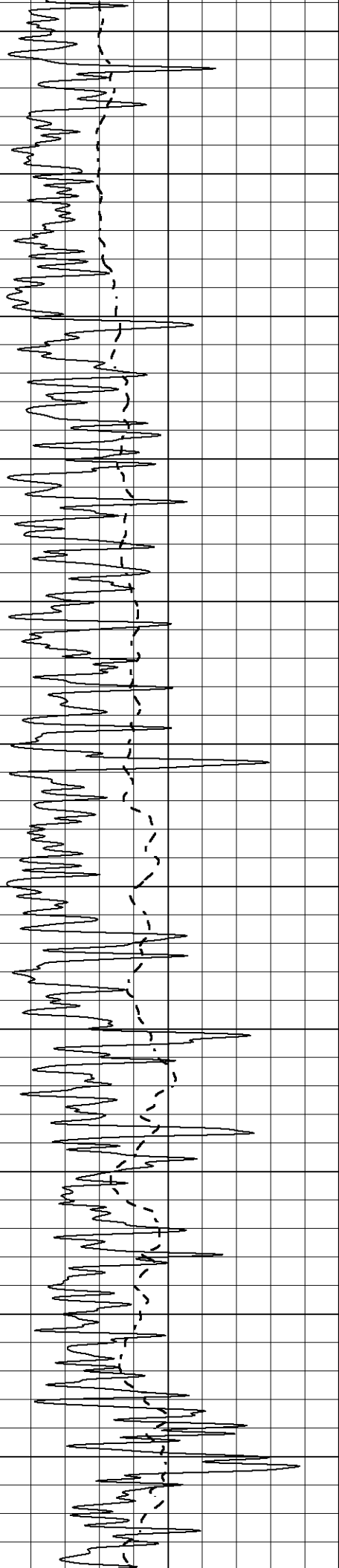
Database File	3436pe8.db
Dataset Pathname	pass3.2
Presentation Format	_dil2
Dataset Creation	Wed Jan 16 15:56:59 2019
Charted by	Depth in Feet scaled 1:600

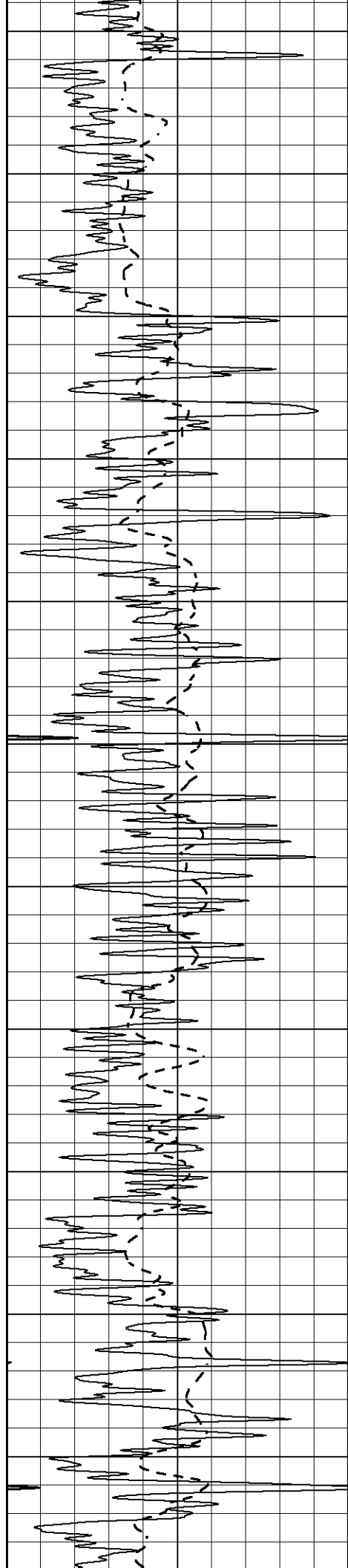
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

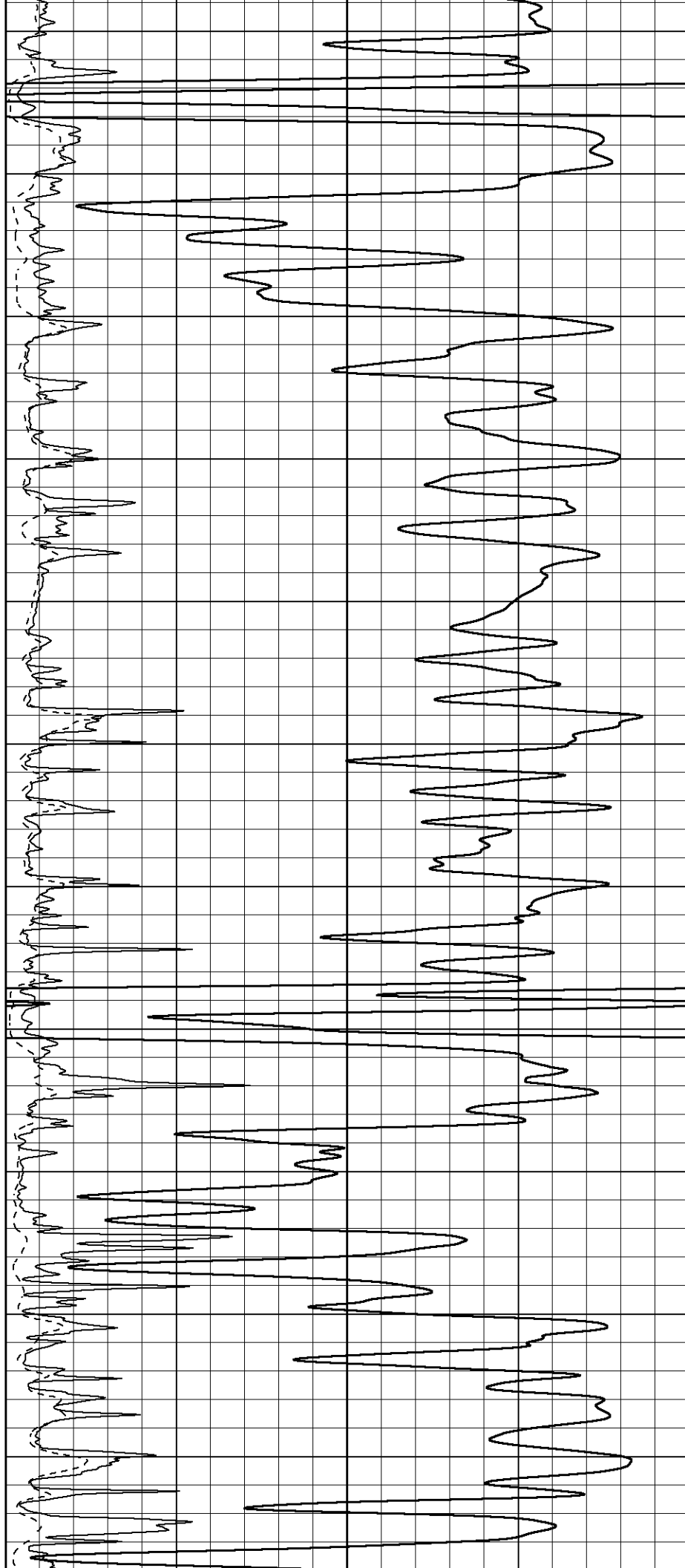
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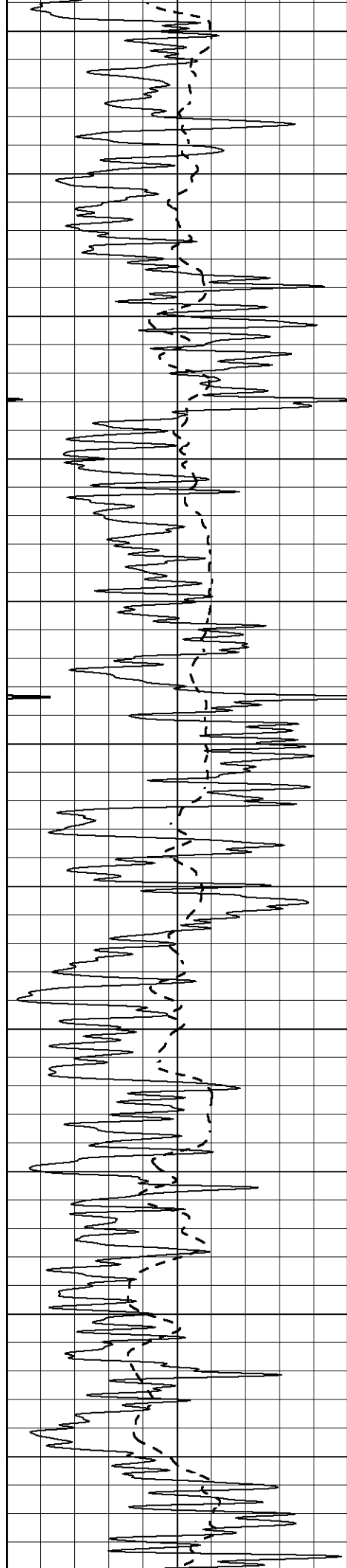
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

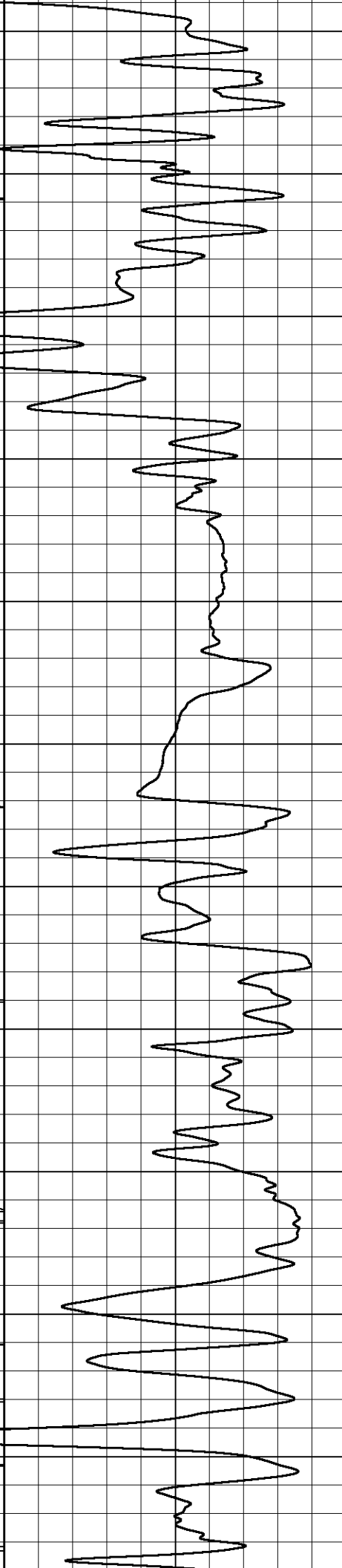
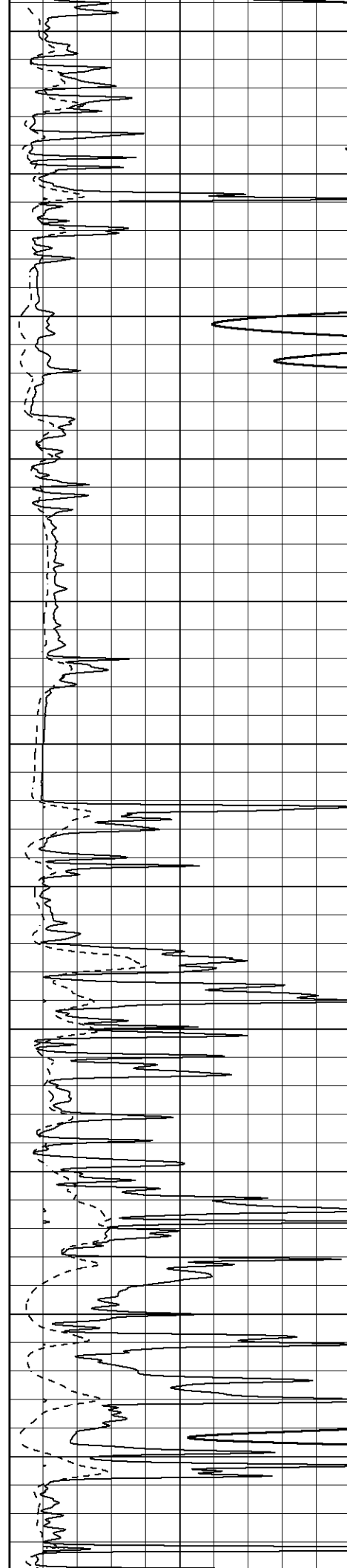
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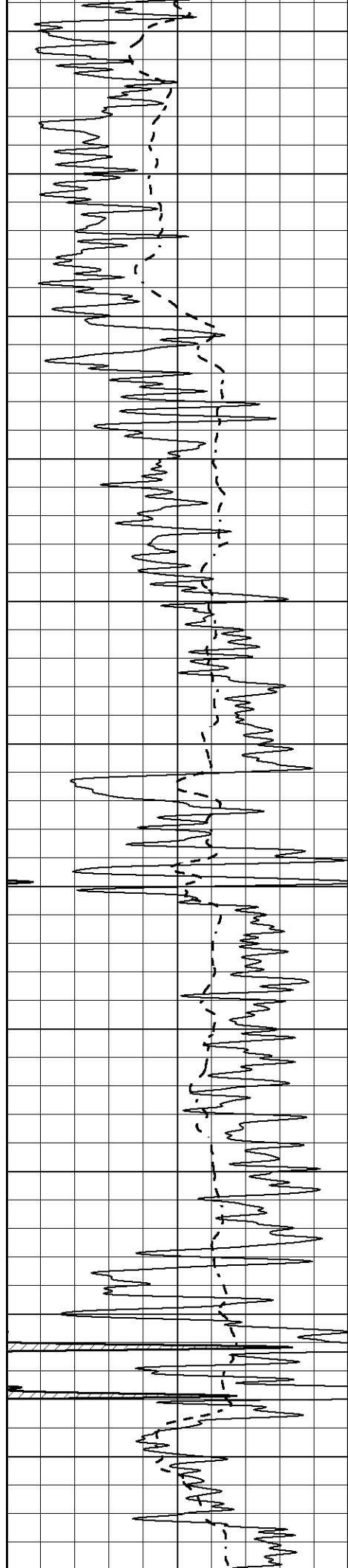
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

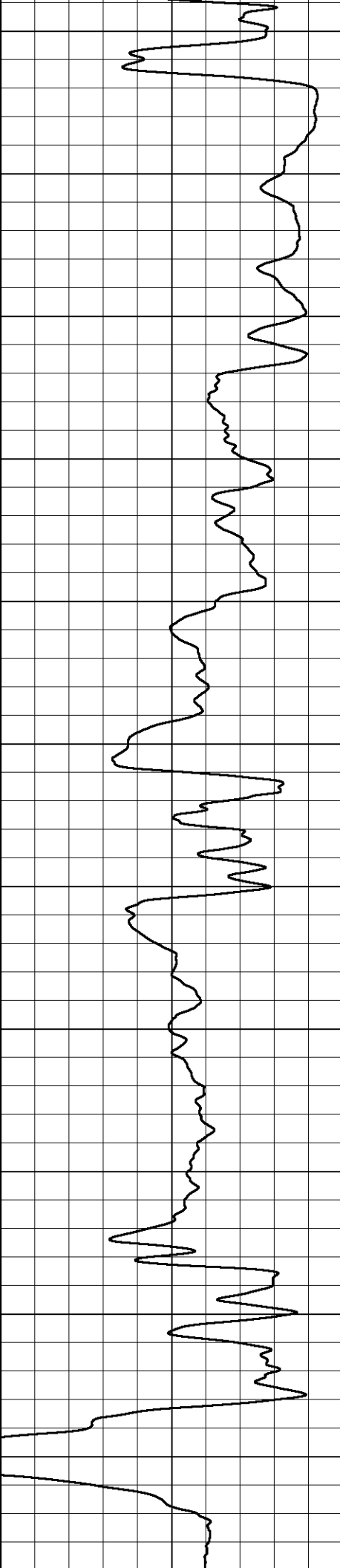
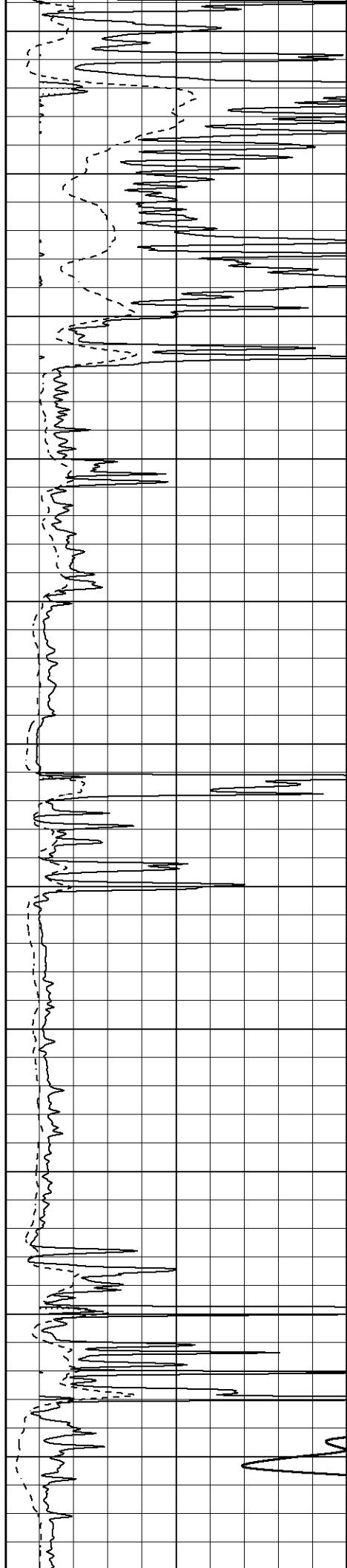
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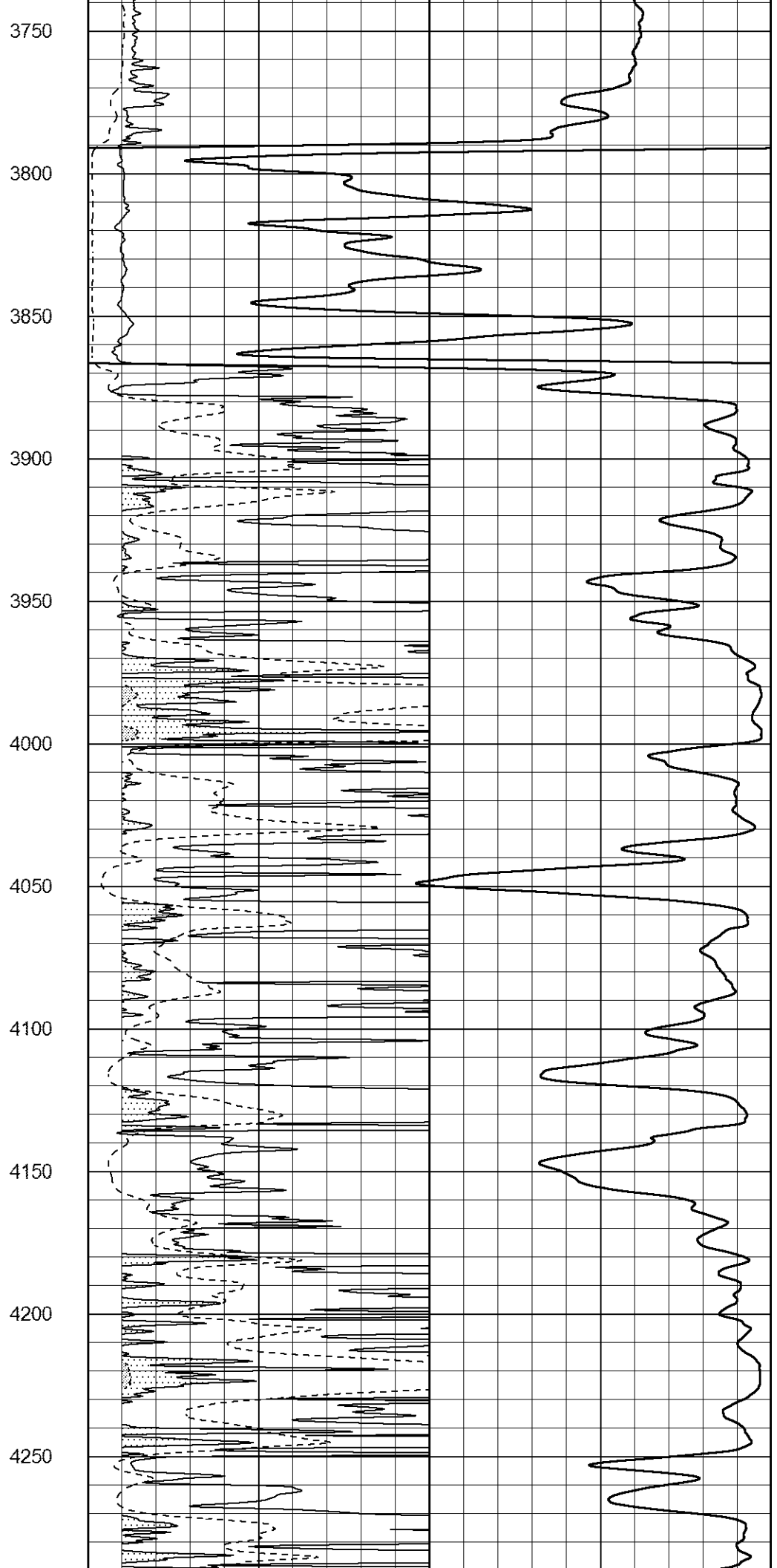
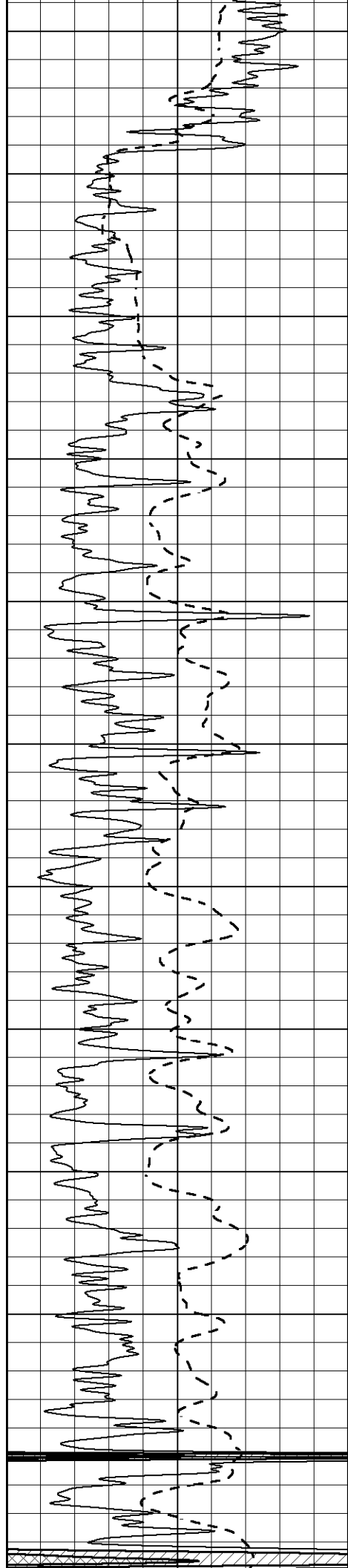
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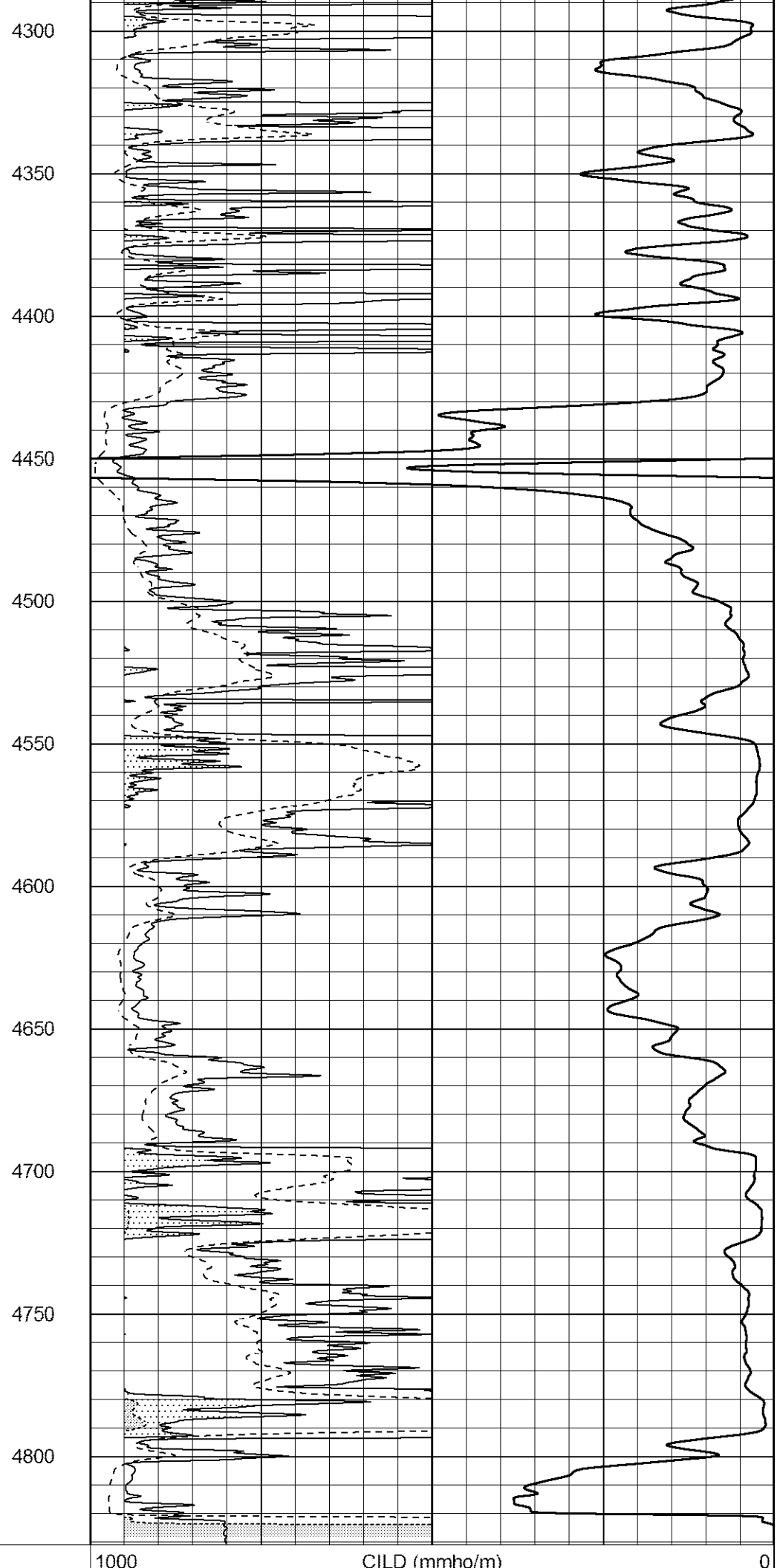
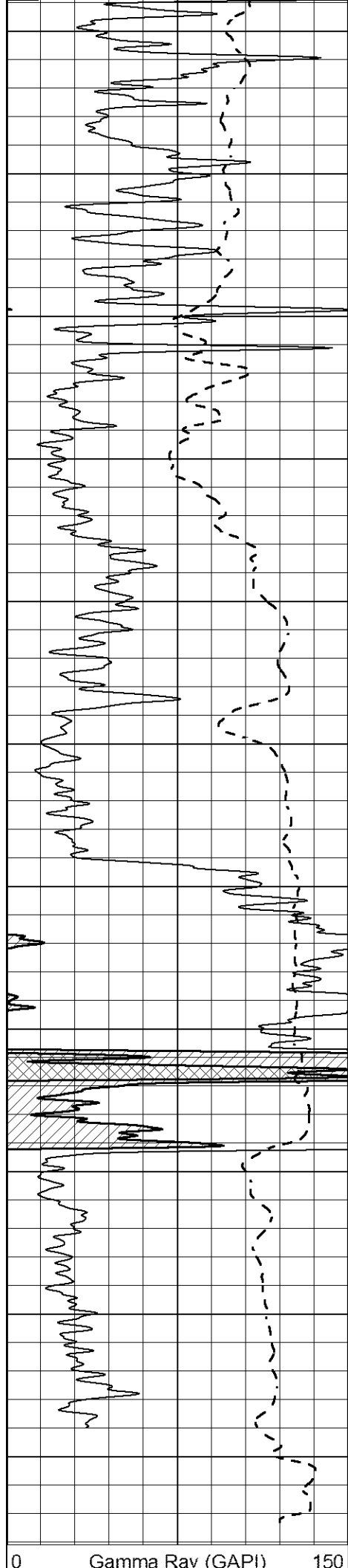
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3650

3700

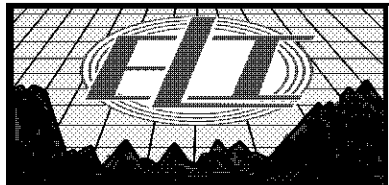






0	SP (mV)	100
-100		

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

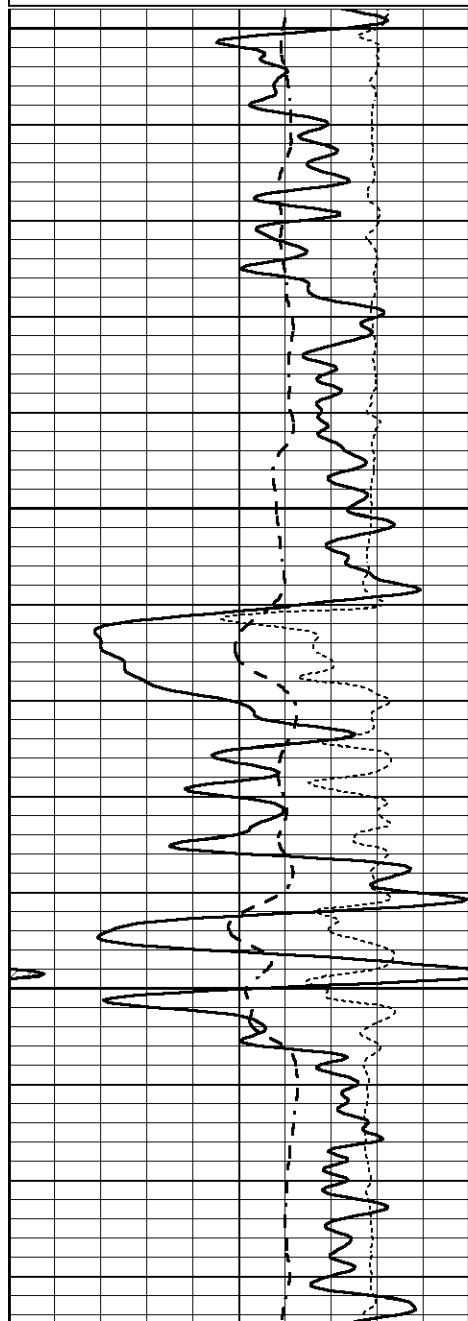


MAIN SECTION

Database File 3436pe8.db
 Dataset Pathname pass3.1
 Presentation Format _dil
 Dataset Creation Wed Jan 16 14:56:12 2019
 Charted by Depth in Feet scaled 1:240

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

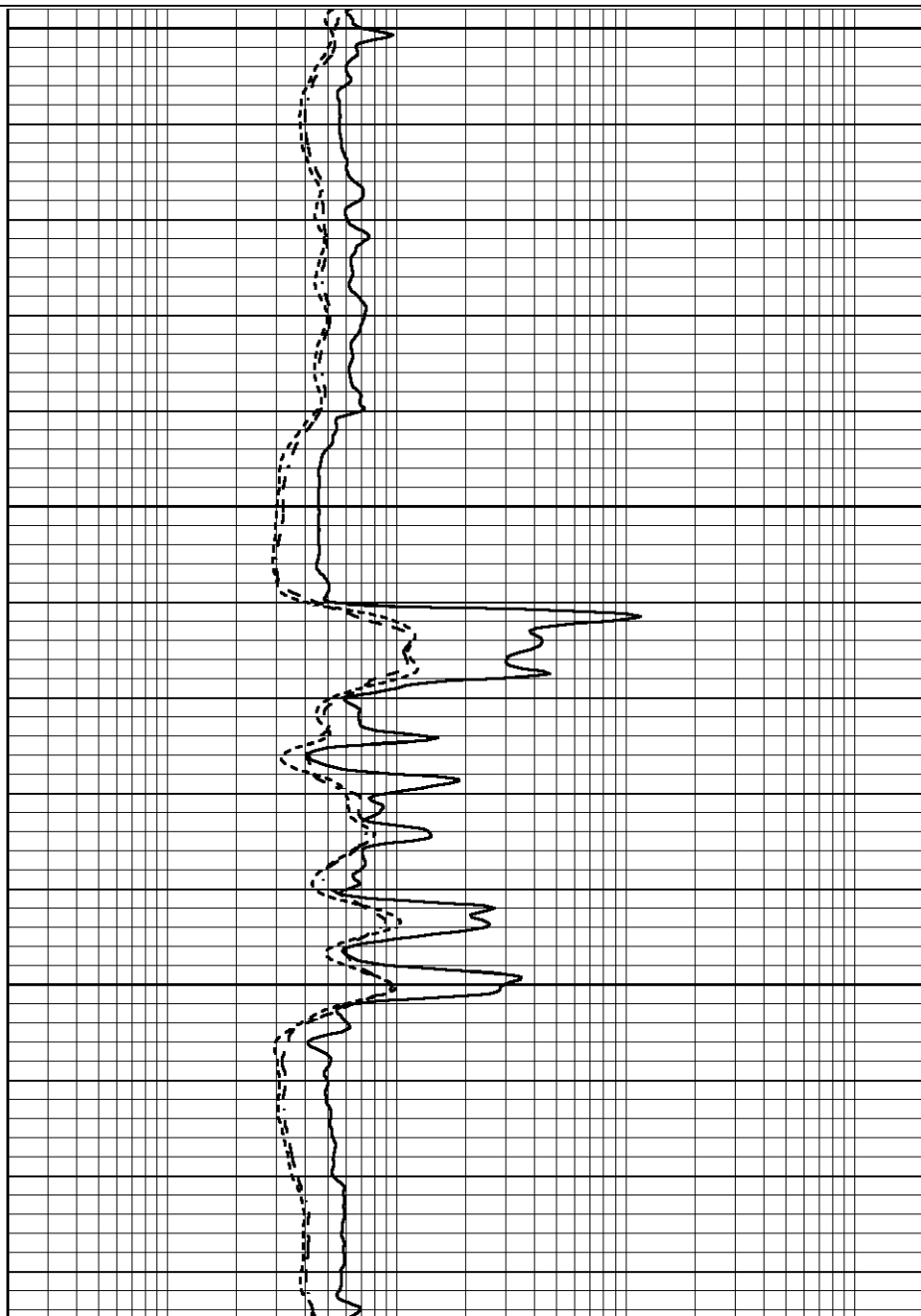
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

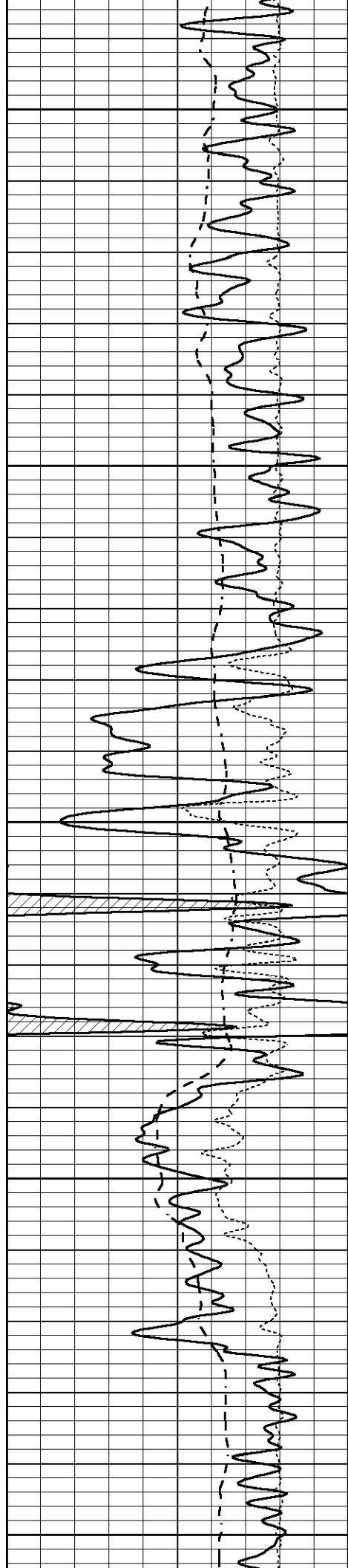


3400

3450

3500





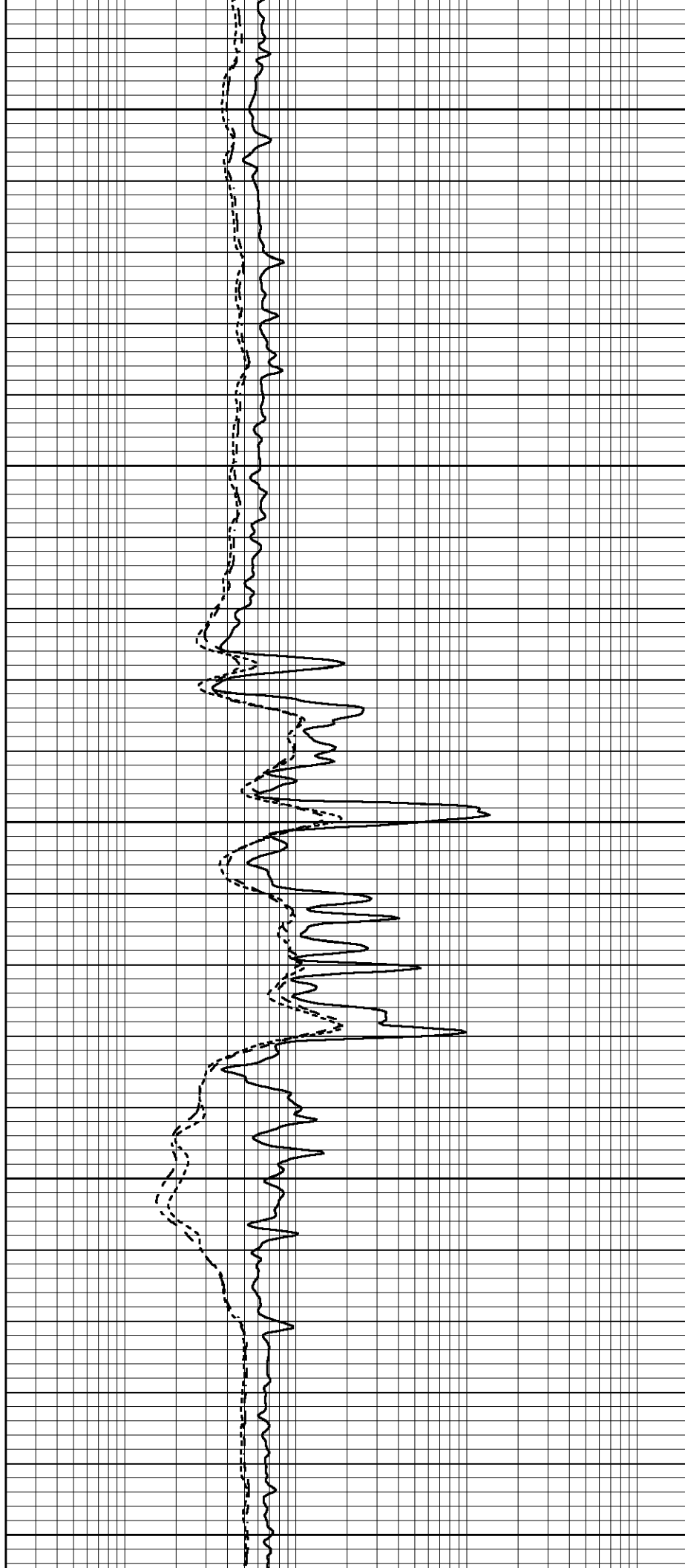
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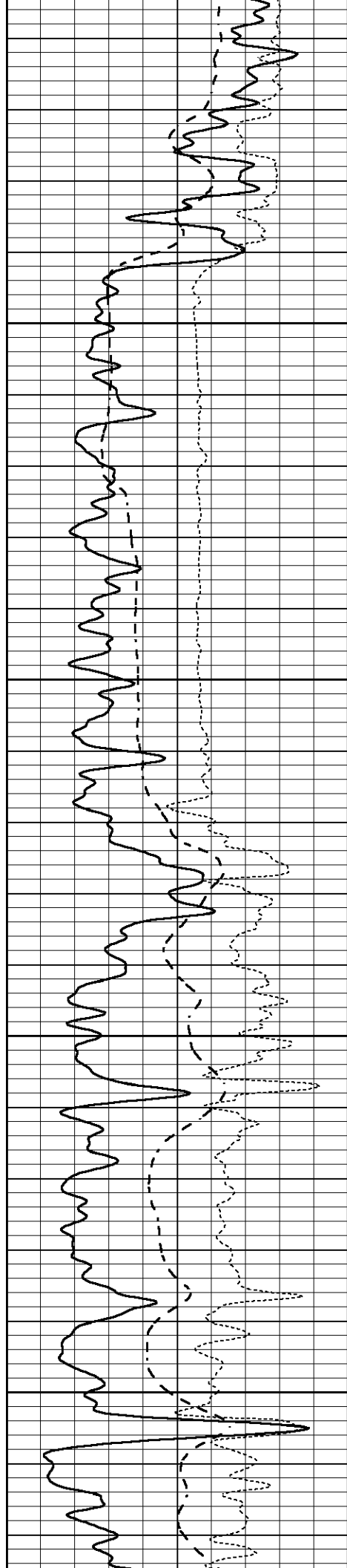
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3650

3700

3750



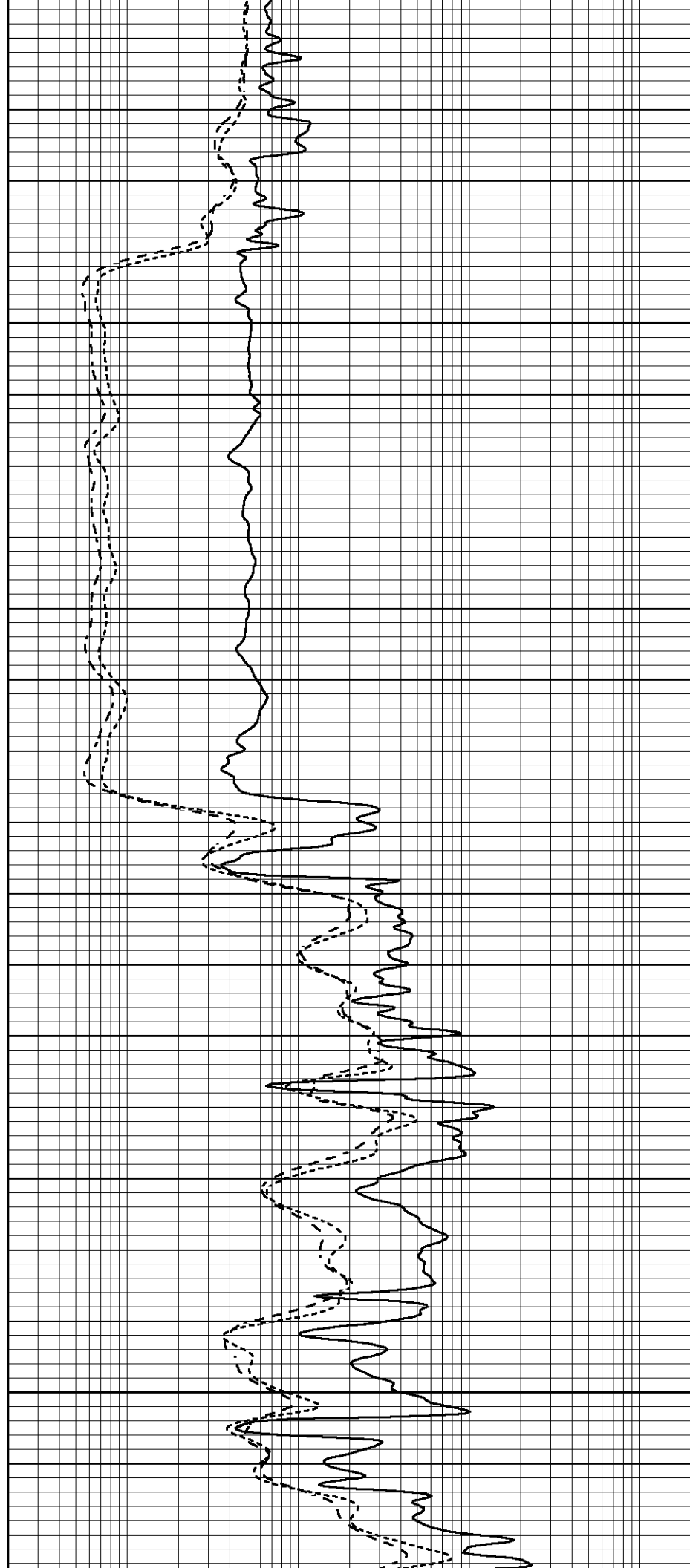


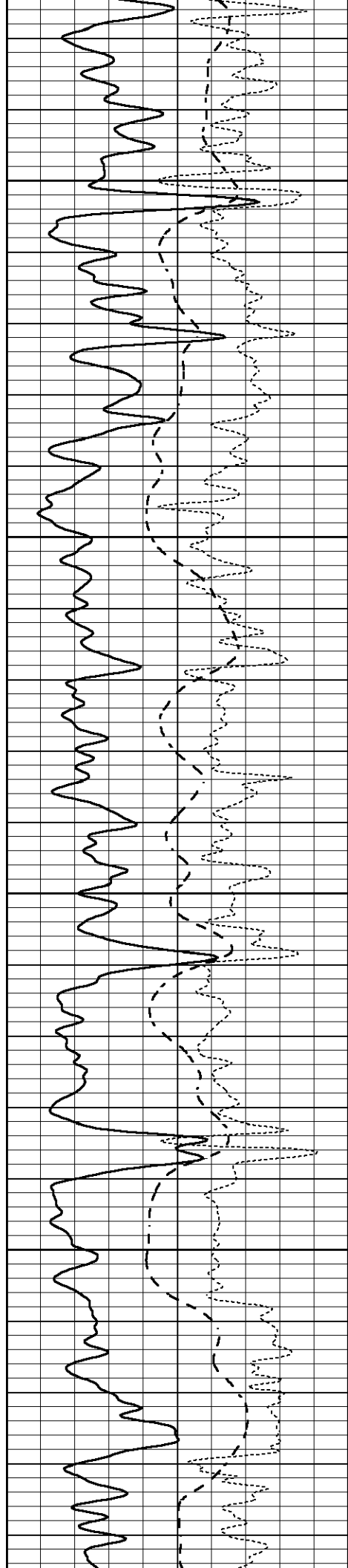
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3850

3900

3950



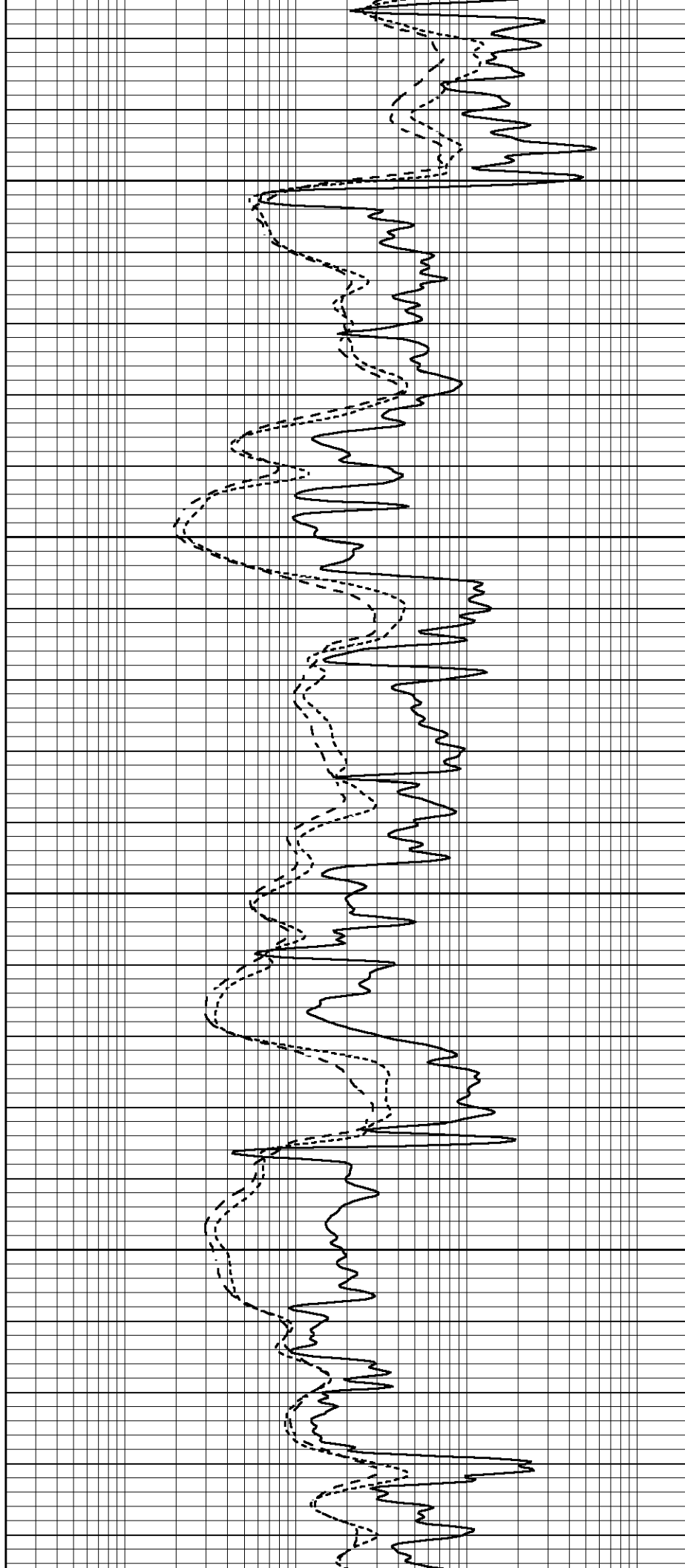


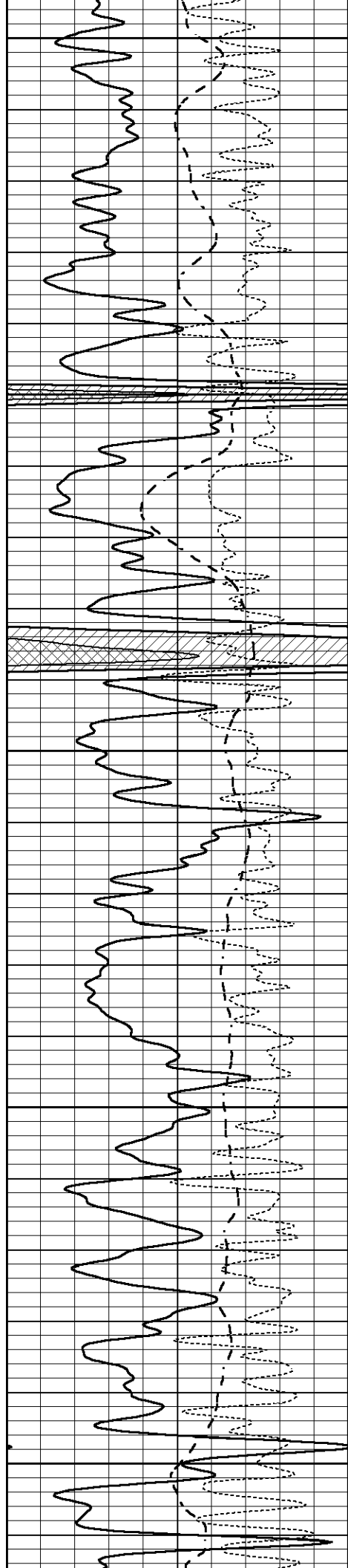
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4050

4100

4150





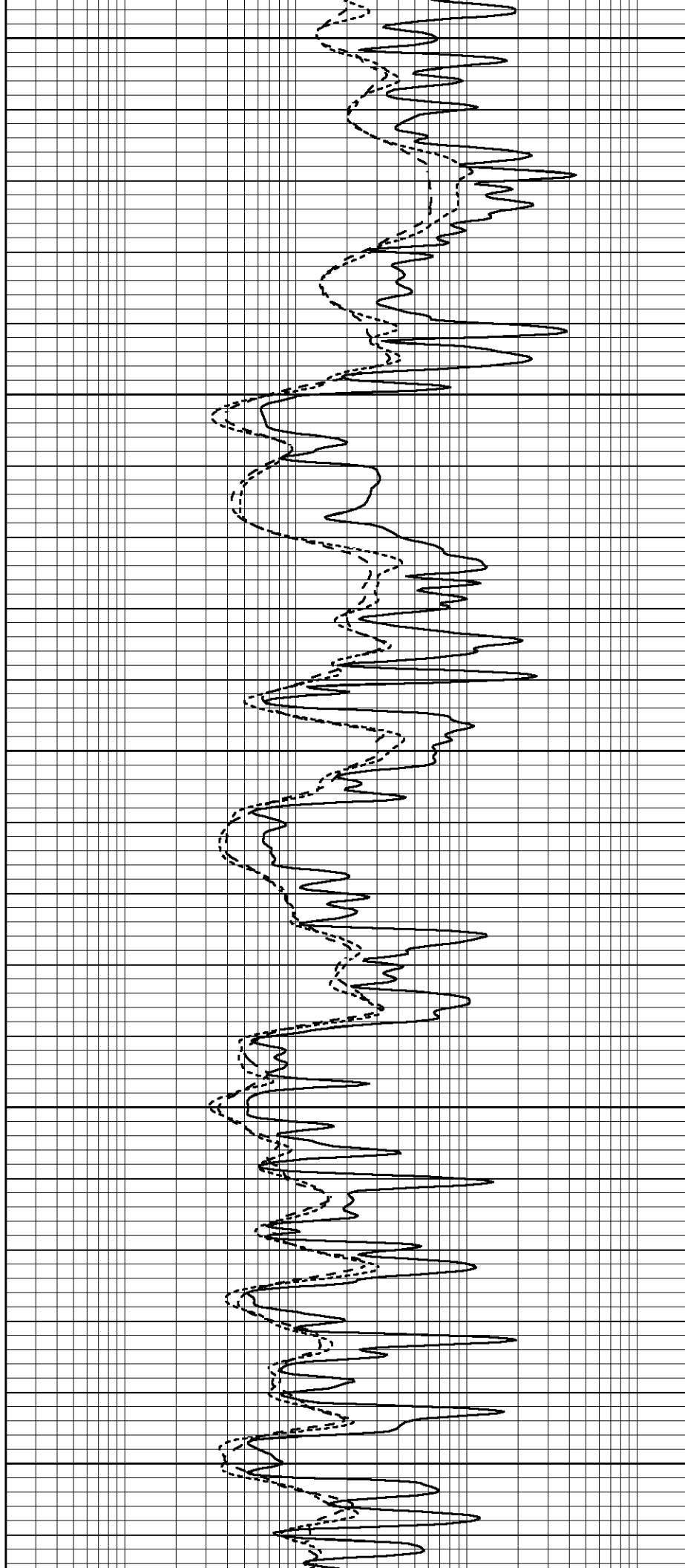
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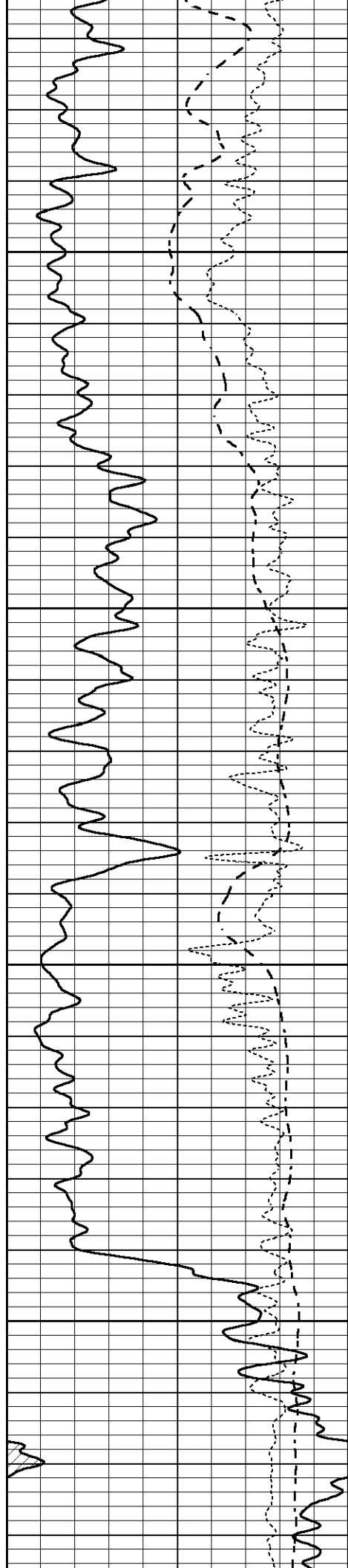
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4300

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4400



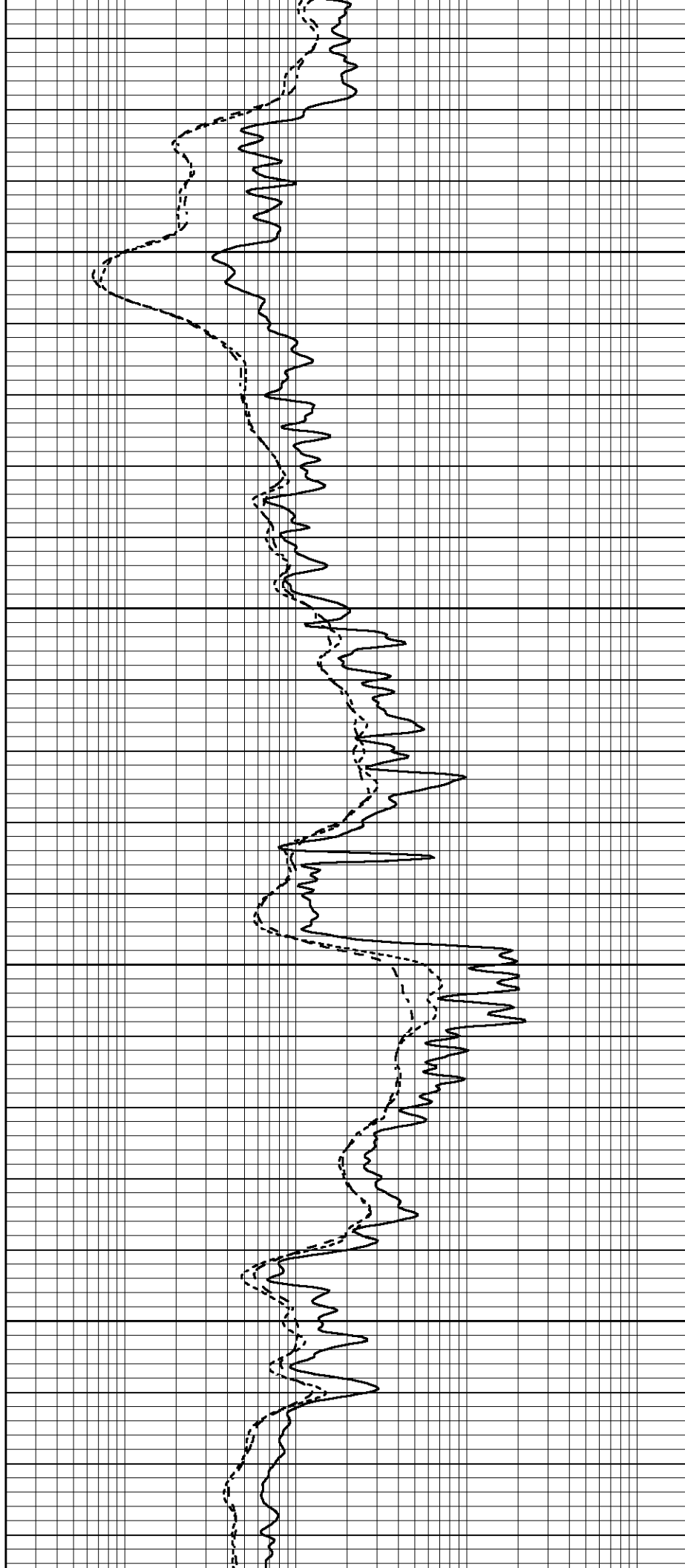


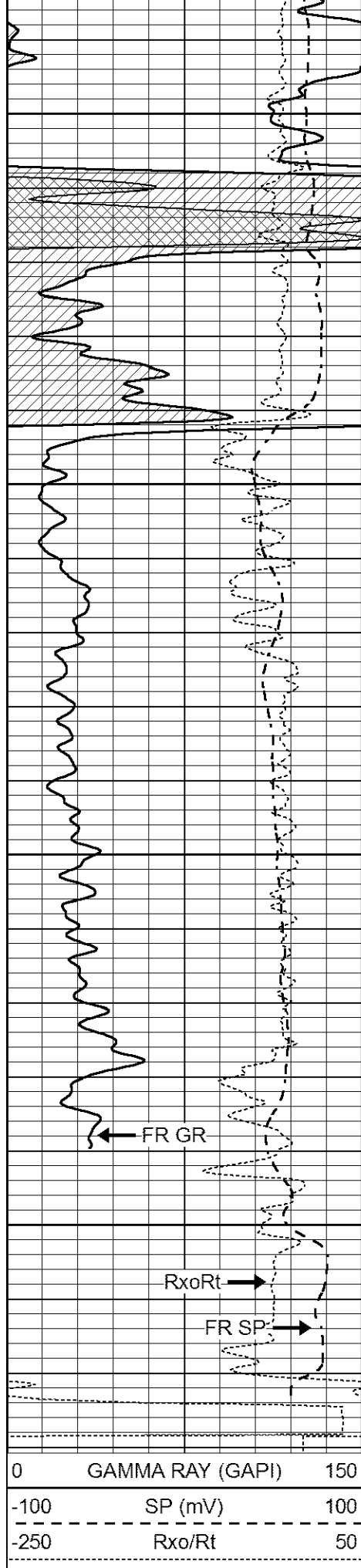
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4500

4550

4600





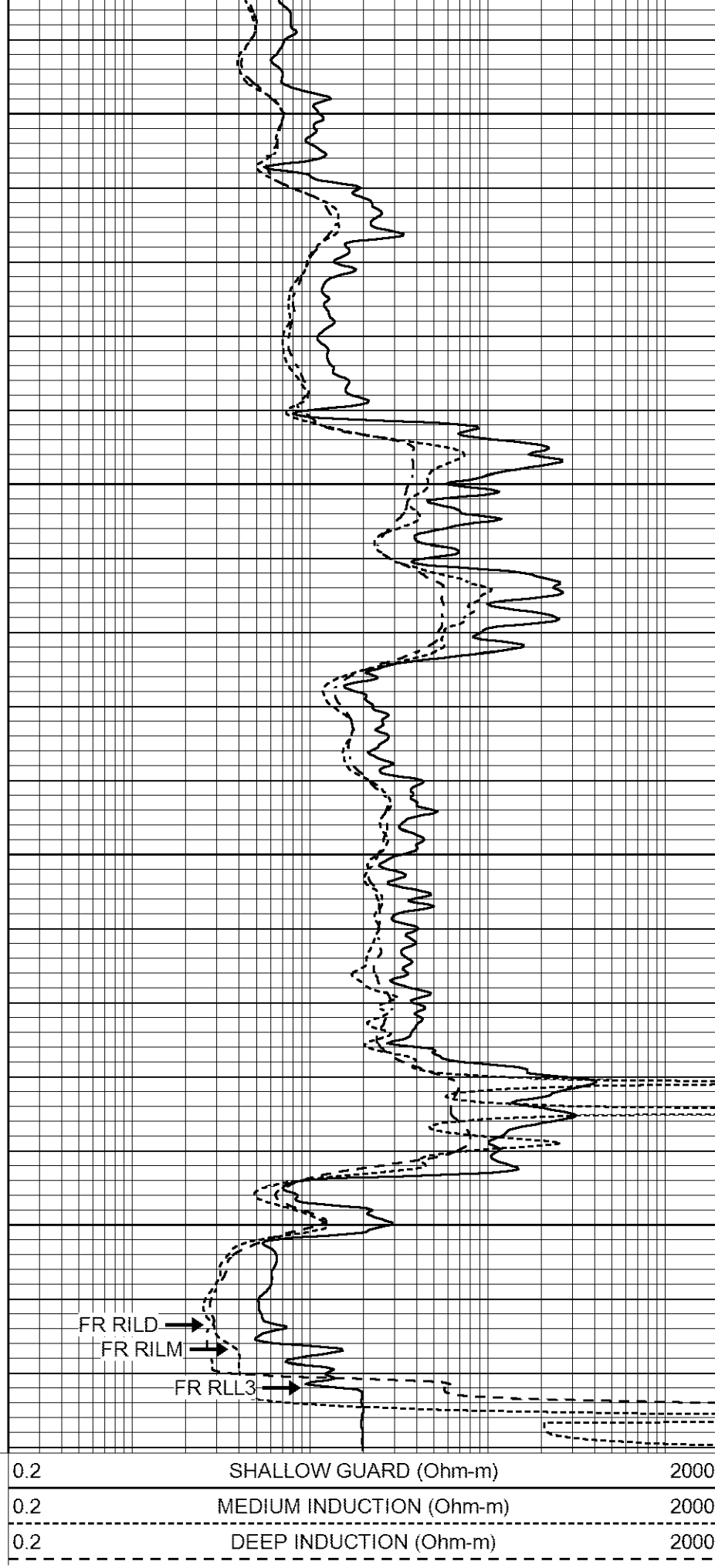
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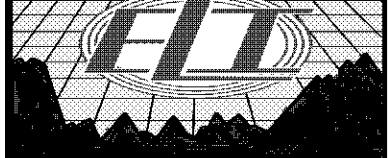
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4750

4800

LTD 4824



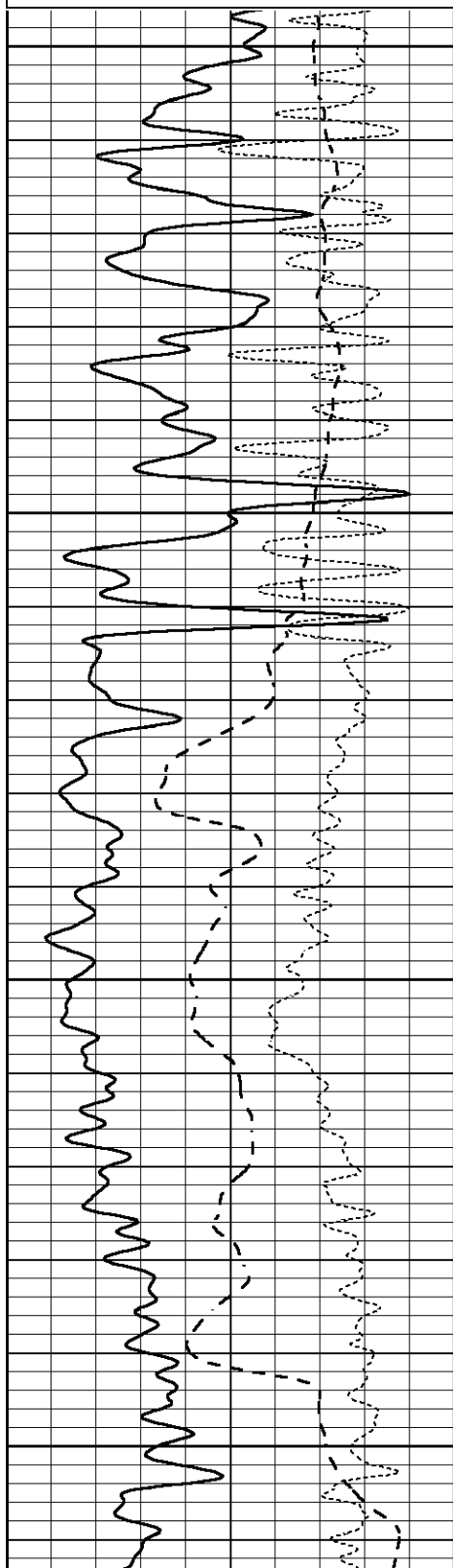


REPEAT SECTION

Database File 3436pe8.db
Dataset Pathname pass2.1
Presentation Format _dil
Dataset Creation Wed Jan 16 14:35:21 2019
Charted by Depth in Feet scaled 1:240

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

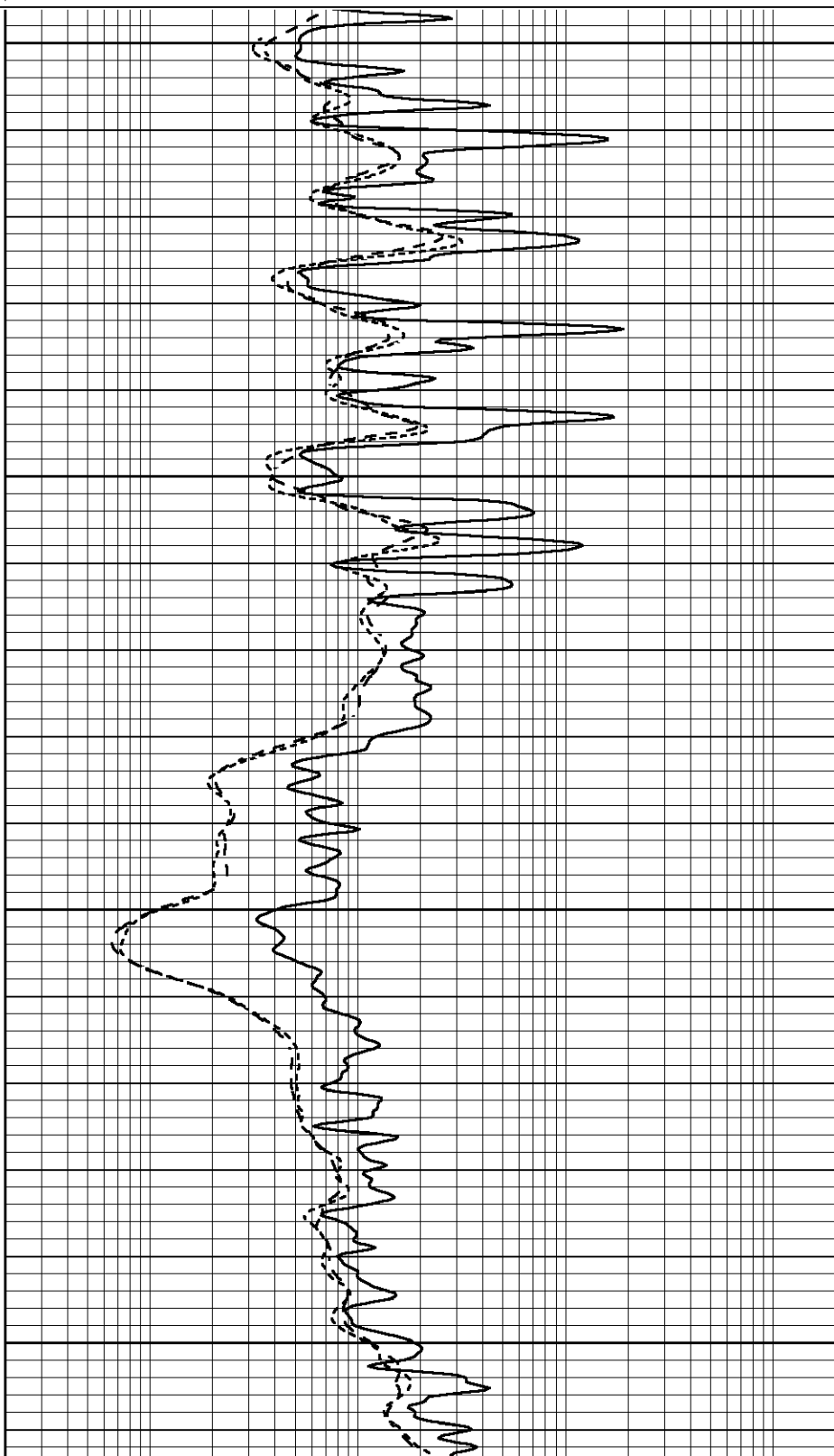


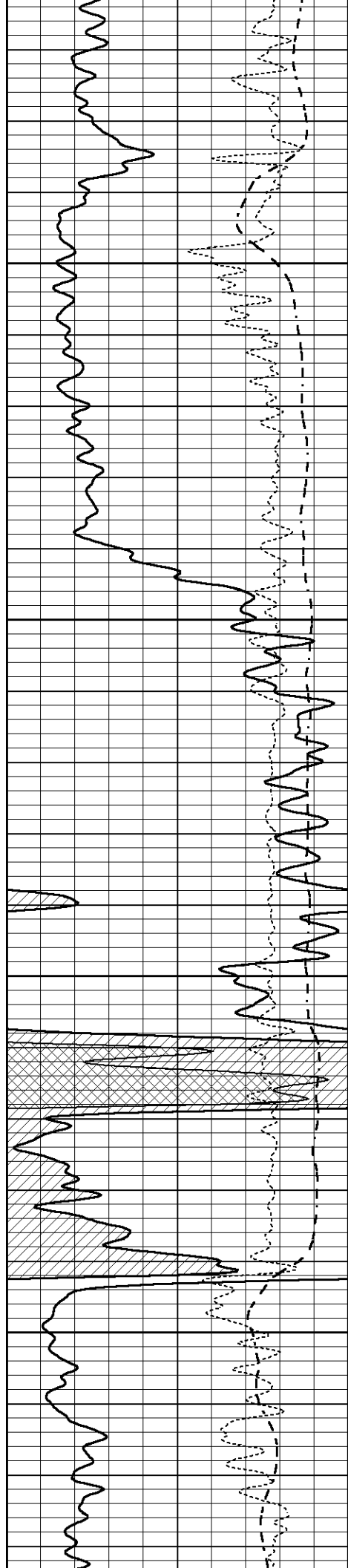
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4400

4450

4500



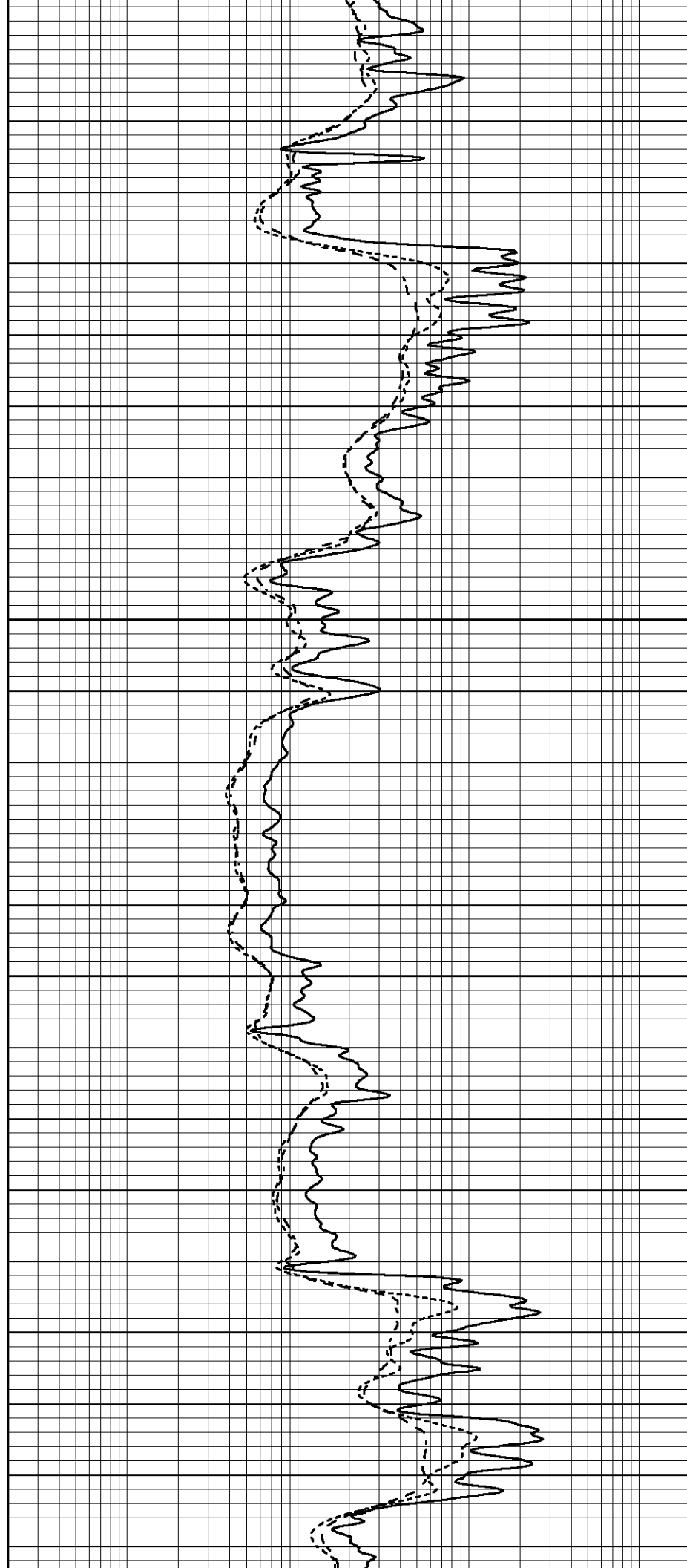


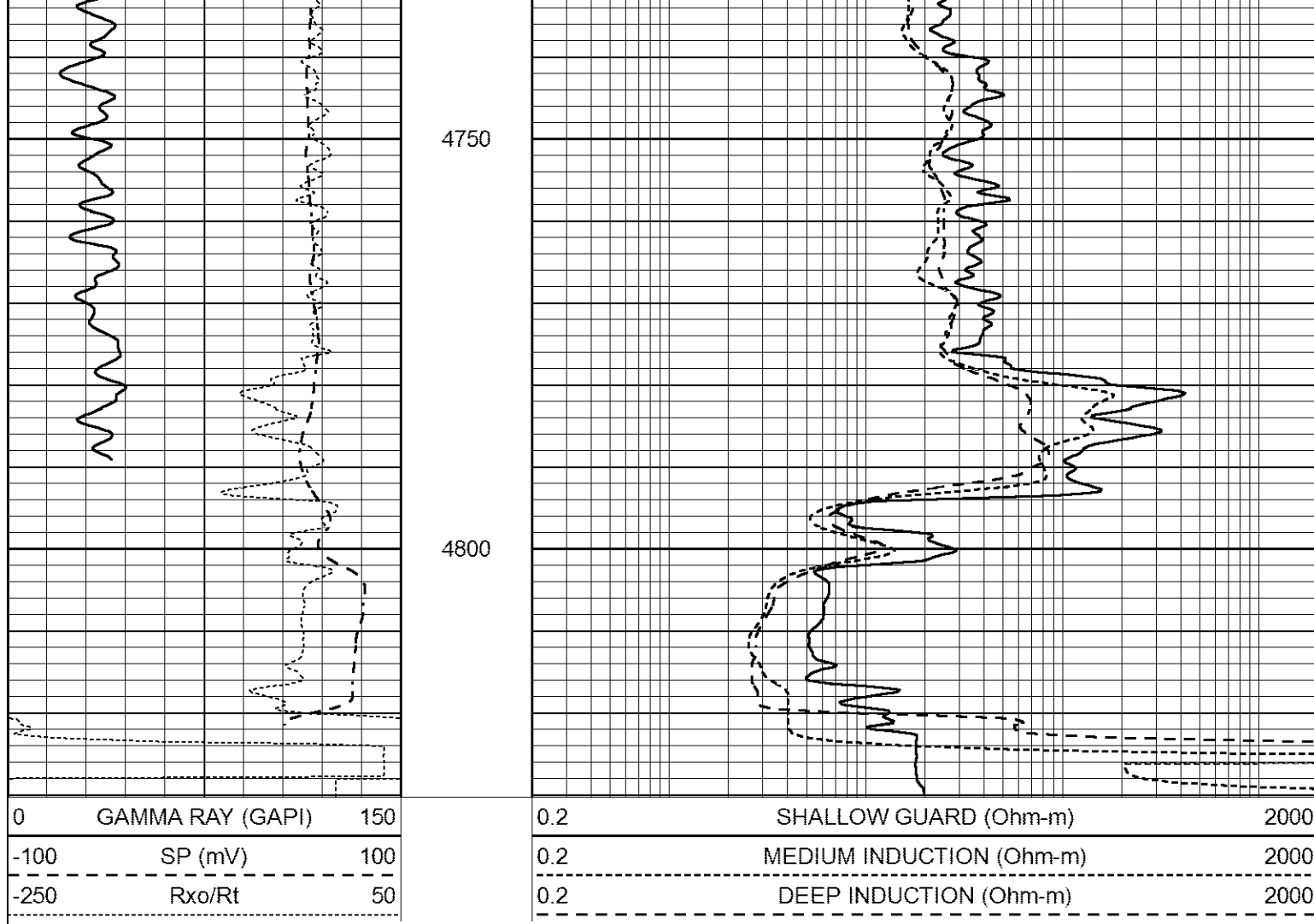
4550

4600

4650

4700





Calibration Report								
Database File	3436pe8.db							
Dataset Pathname	pass2.1							
Dataset Creation	Wed Jan 16 14:35:21 2019							
Dual Induction Calibration Report								
Serial-Model:			FW1410-55-Probe					
Surface Cal Performed:			Mon May 22 14:23:32 2017					
Downhole Cal Performed:			Thu Mar 12 09:29:20 2015					
After Survey Verification Performed:			Thu Mar 12 09:29:20 2015					
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:			Wed Dec 05 01:26:33 2018					
Calibrator Value:			1.0		GAPI			
Background Reading:			0.0		cps			
Calibrator Reading:			1.0		cps			
Sensitivity:			0.4300		GAPI/cps			