



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	MAI OIL OPERATIONS, INC.		
Well	BEISEL #2		
Field	BEISEL		
County	RUSSELL	State	KANSAS
Location:	API # : 15-167-23836		Other Services CDL/CNL SONIC/MEL
1125' FNL & 2560' FEL			
Permanent Datum	GROUND LEVEL		Elevation
Log Measured From	KELLY BUSHING 8' A.G.L.		K.B. 1811
Drilling Measured From	KELLY BUSHING		D.F. 1803
Date	11-29-12		
Run Number	ONE		
Depth Driller	3370		
Depth Logger	3370		
Bottom Logged Interval	3368		
Top Log Interval	00		
Casing Driller	367		
Casing Logger	367		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 56		
pH / Fluid Loss	11.0 / 8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.75 @ 62F		
Rmf @ Meas. Temp	0.56 @ 62F		
Rmc @ Meas. Temp	0.90 @ 62F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.430 @ 108F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	108F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	JIM MUSGROVE		

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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

NABORS COMPLETION & PRODUCTION CO.
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: BUNKER HILL & I-70 EXIT, 2E ON OLD #40, 1S, 1 1/2E, S INTO.



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File: 010155ddn.db
 Dataset Pathname: pass3.1A
 Presentation Format: dil2
 Dataset Creation: Thu Nov 29 08:16:09 2012
 Charted by: Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

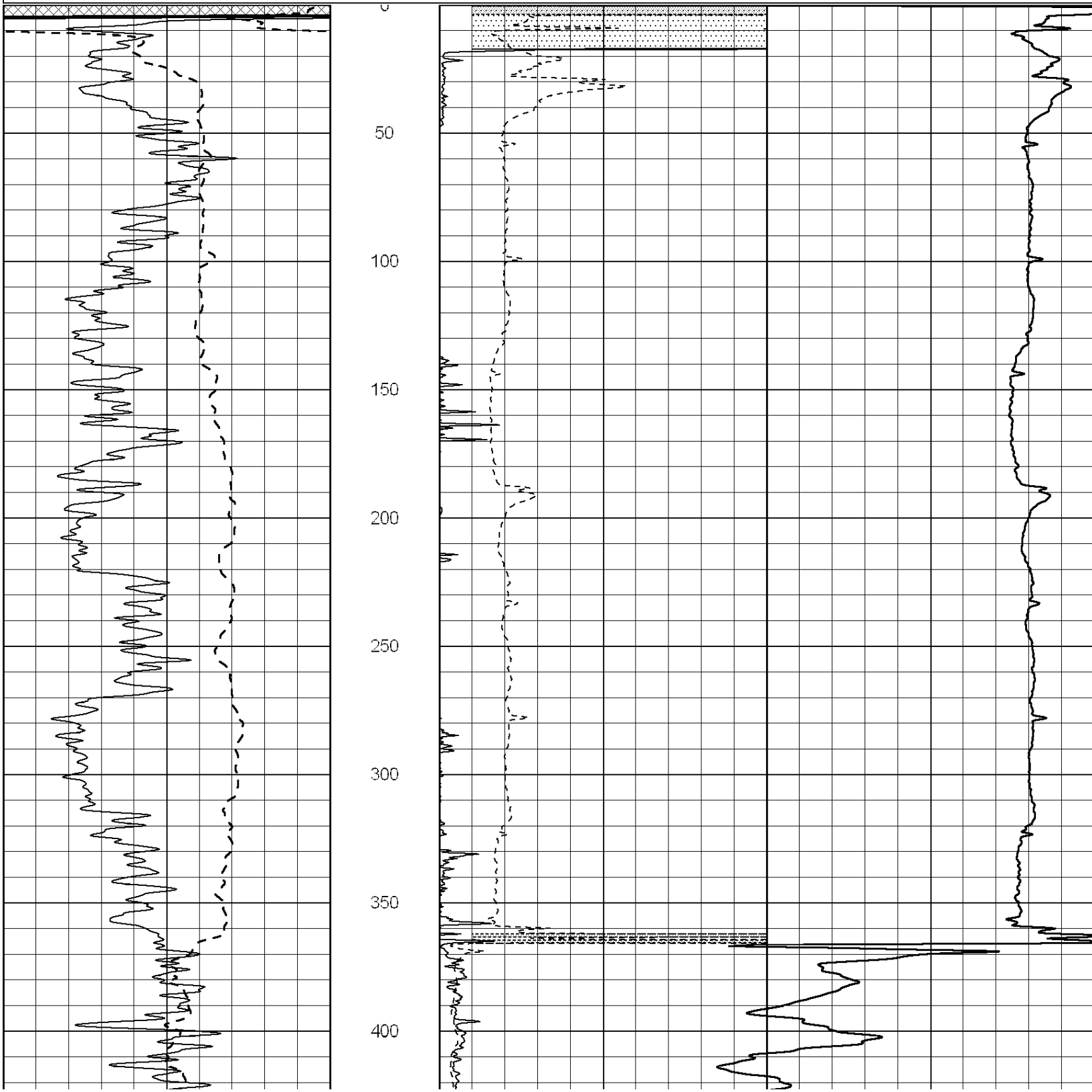
0 RLL3 (Ohm-m) 50

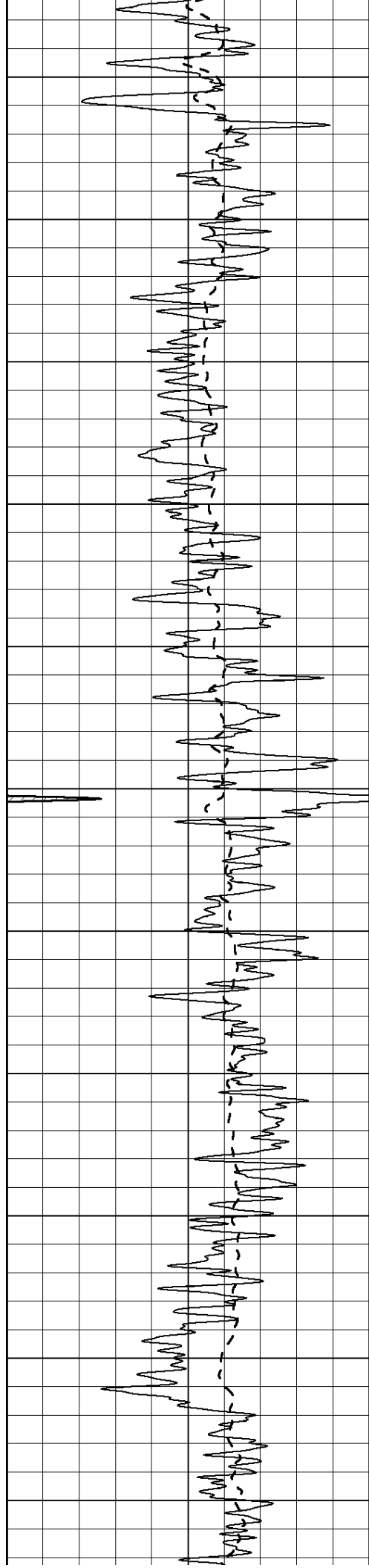
0 Deep Induction (Ohm-m) 50

1000 CILD (mmho/m) 0

50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500





450

500

550

600

650

700

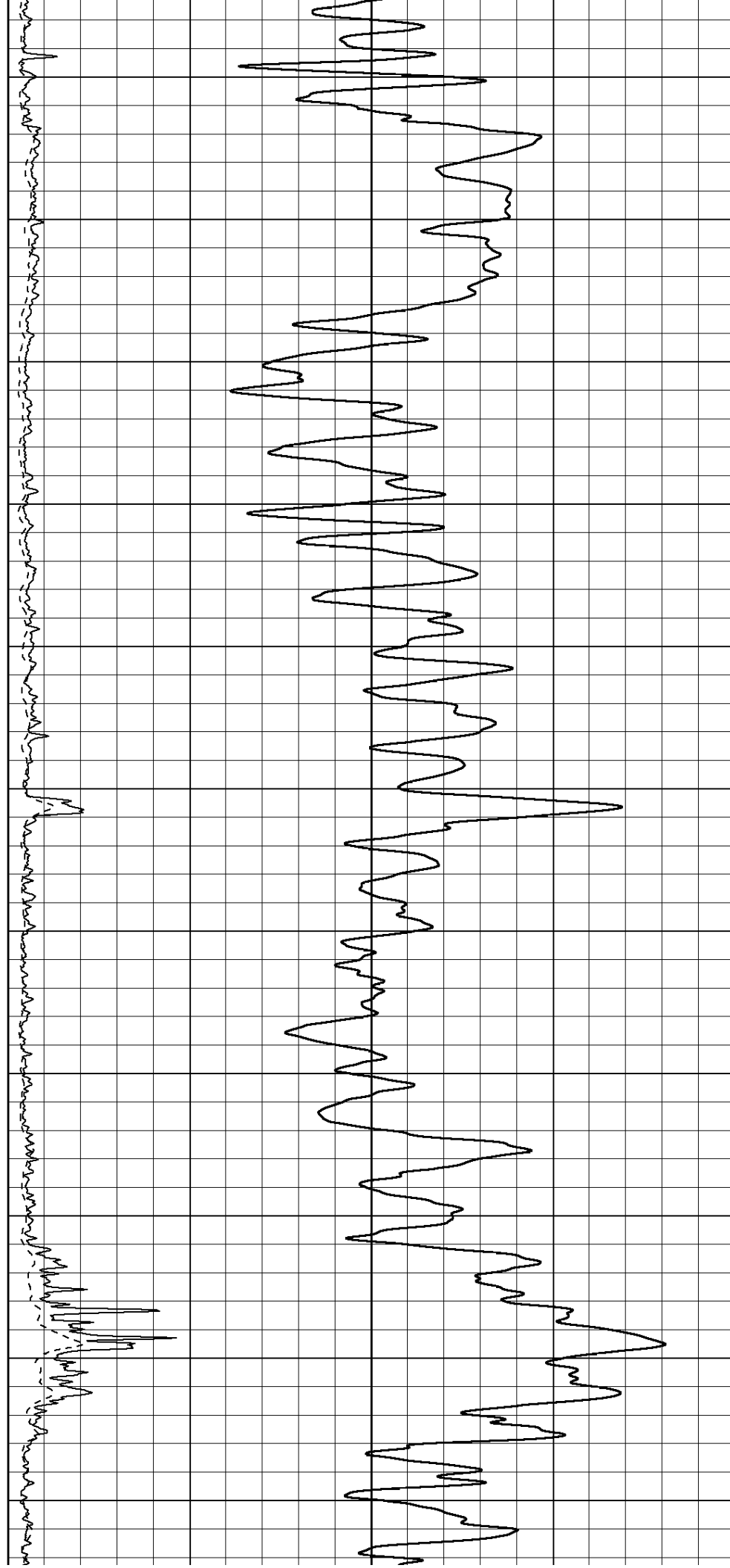
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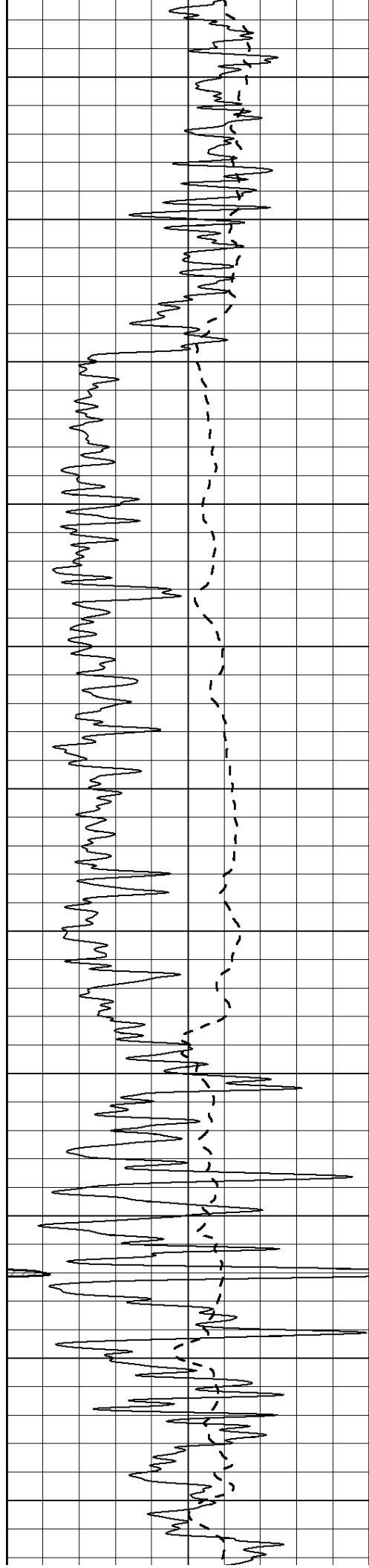
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850

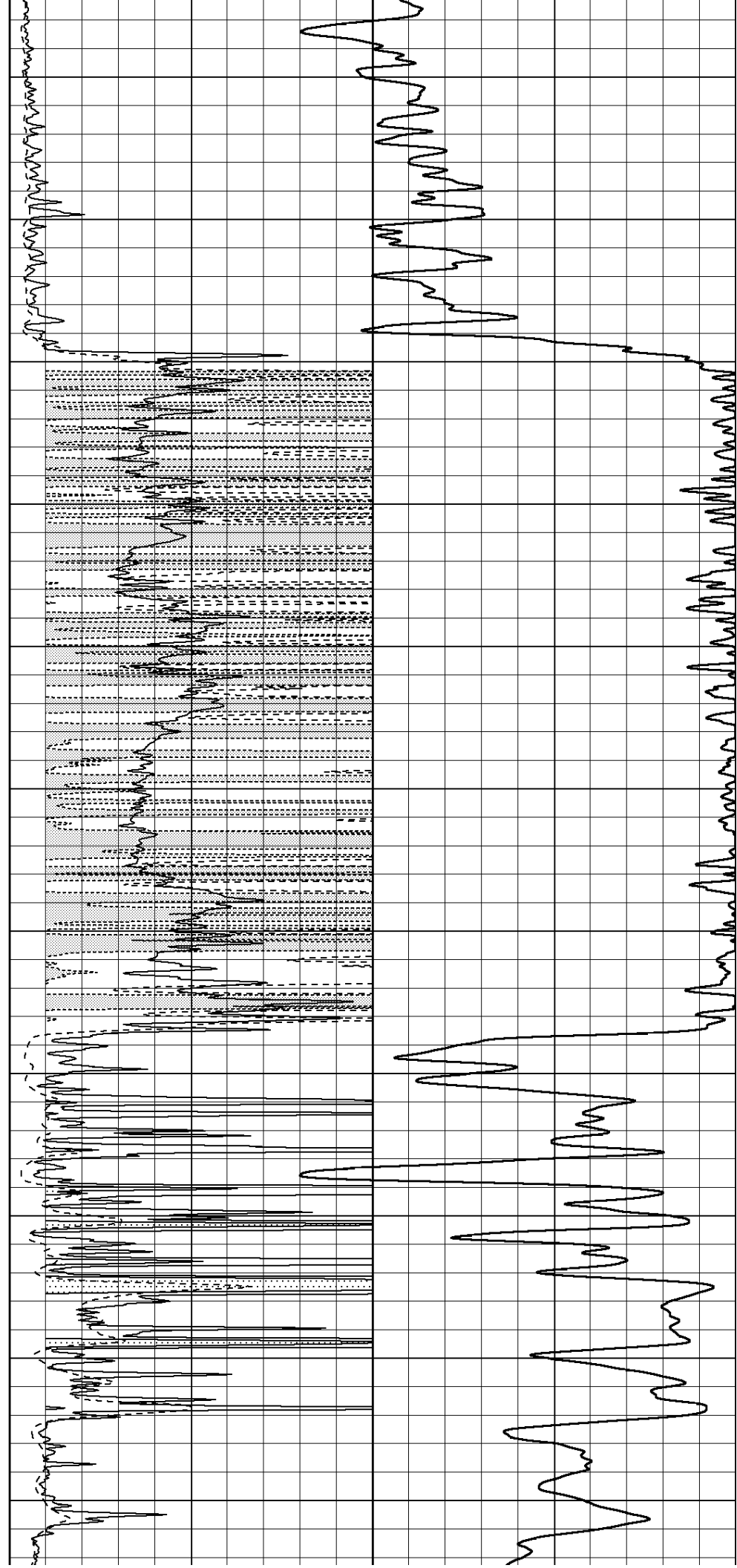
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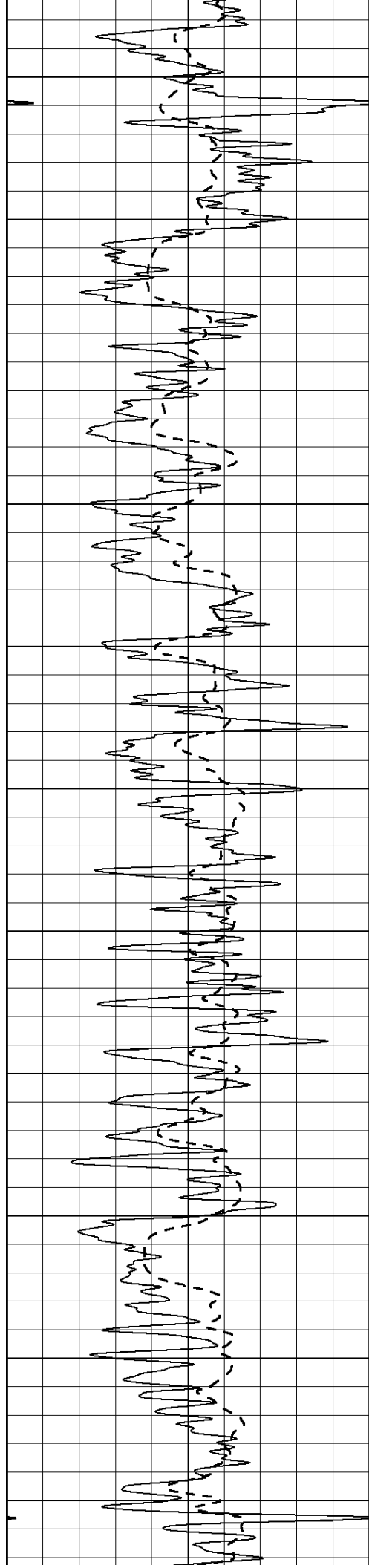
950





1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500





1550

1600

1650

1700

1750

1800

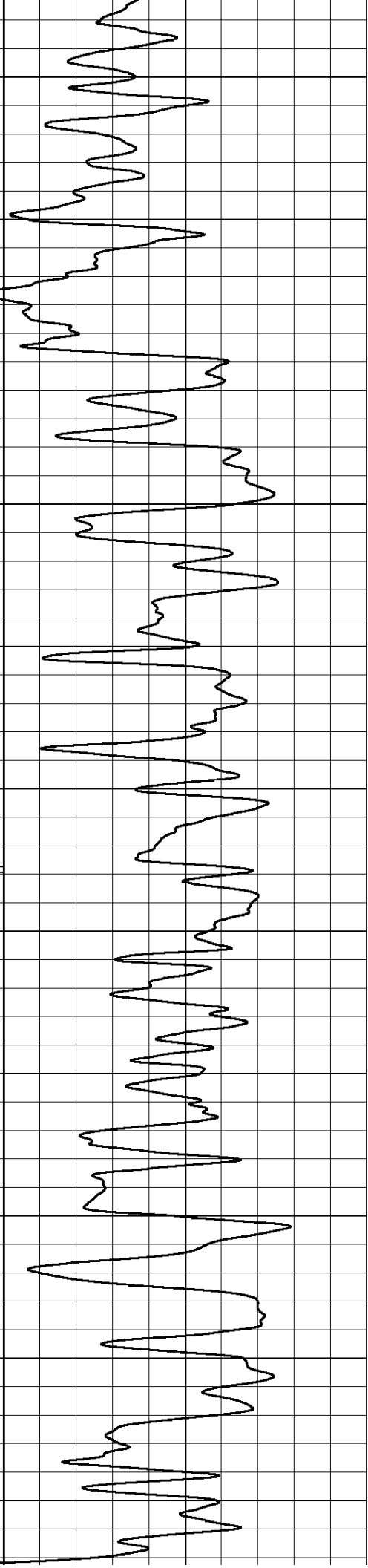
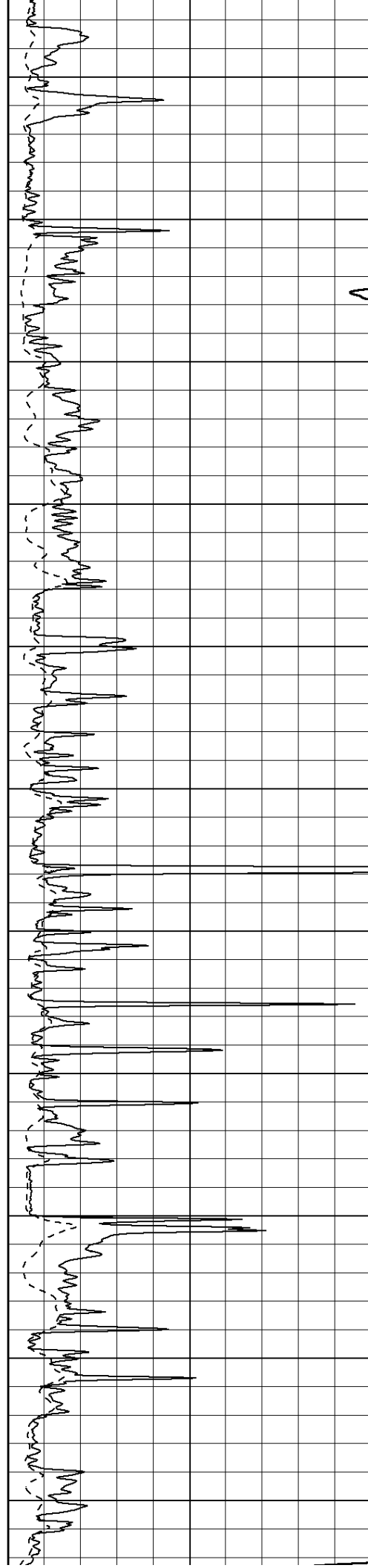
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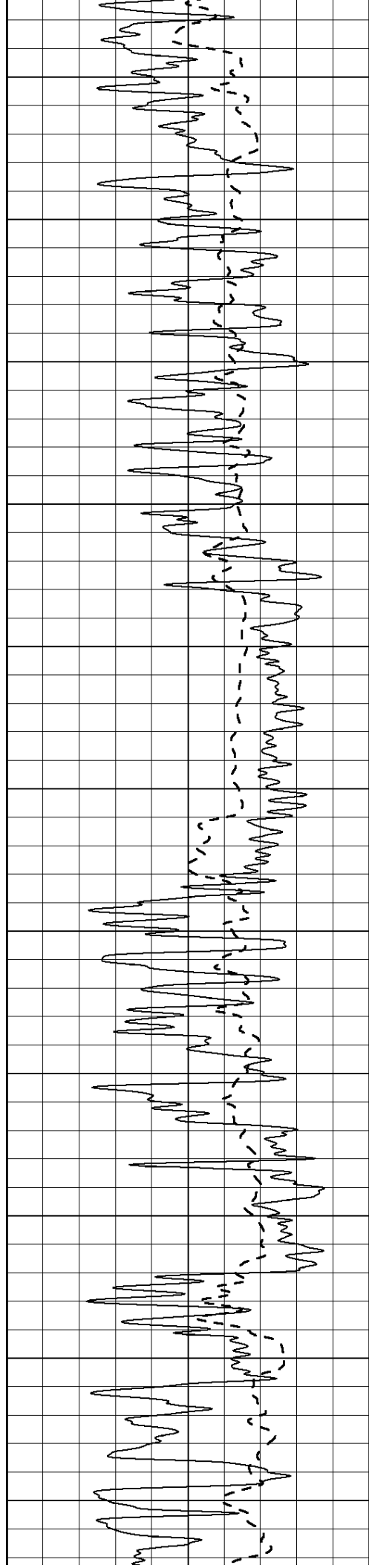
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1950

2000

2050





2100

2150

2200

2250

2300

2350

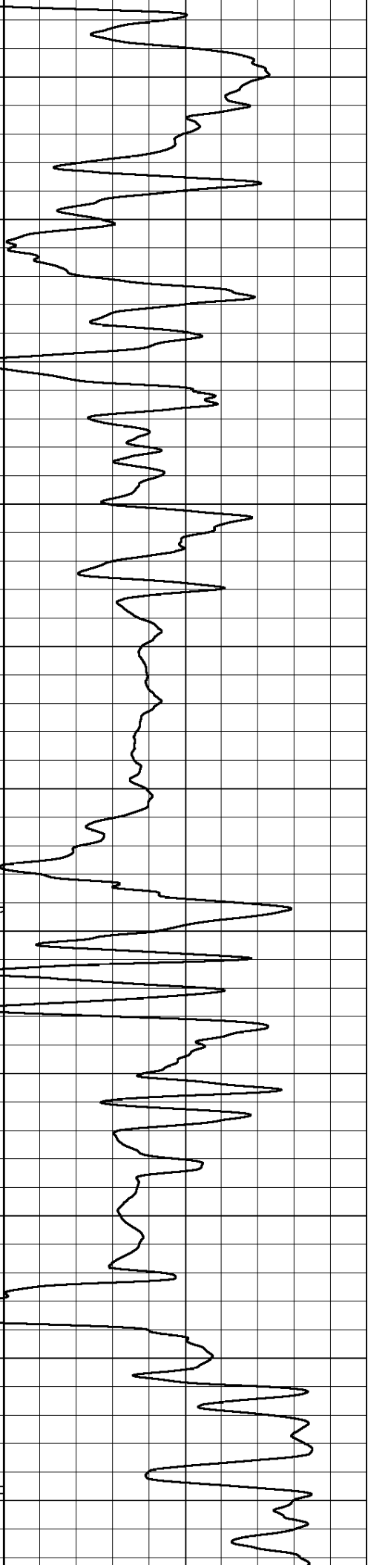
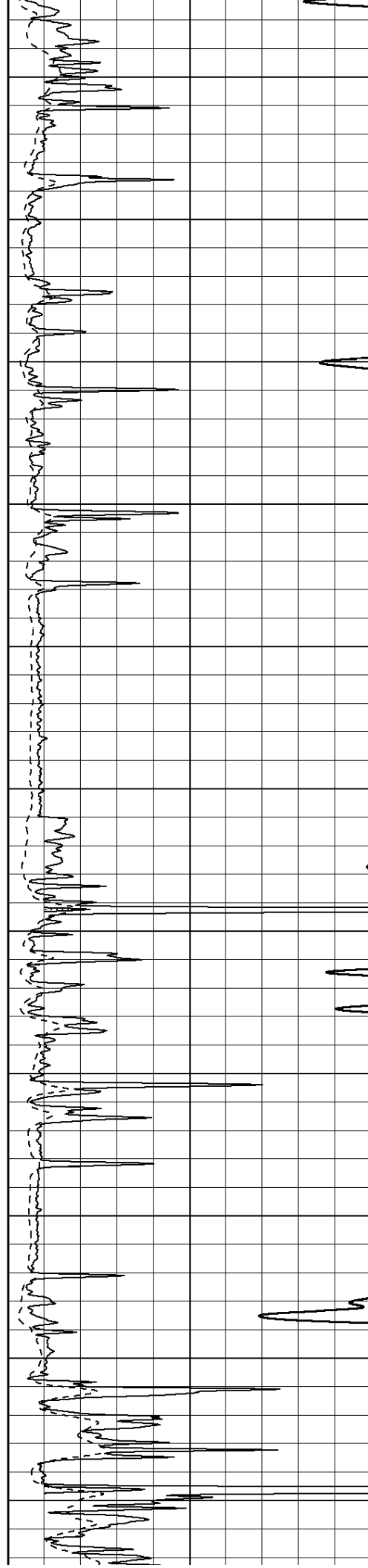
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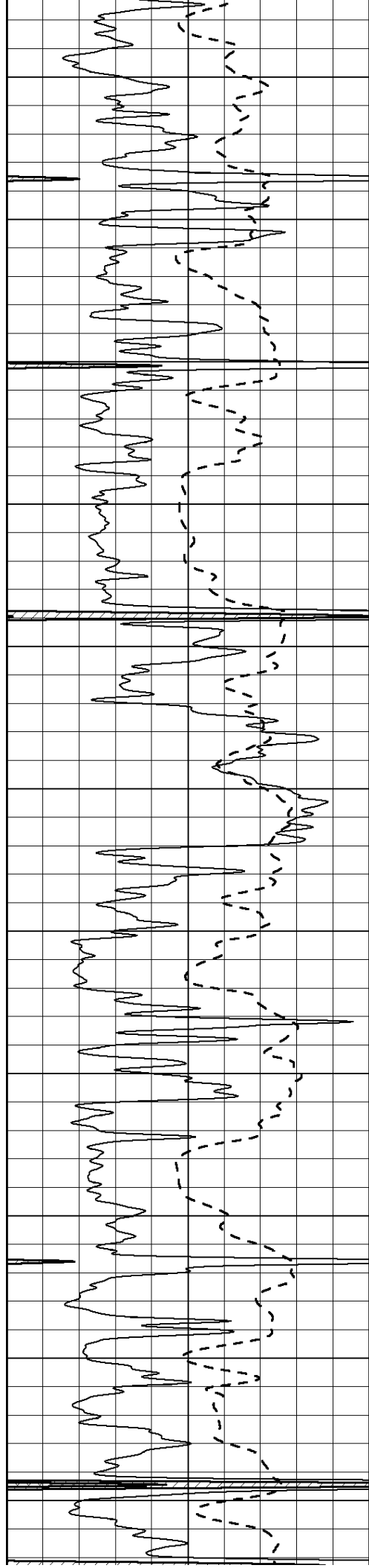
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2500

2550

2600





2650

2700

2750

2800

2850

2900

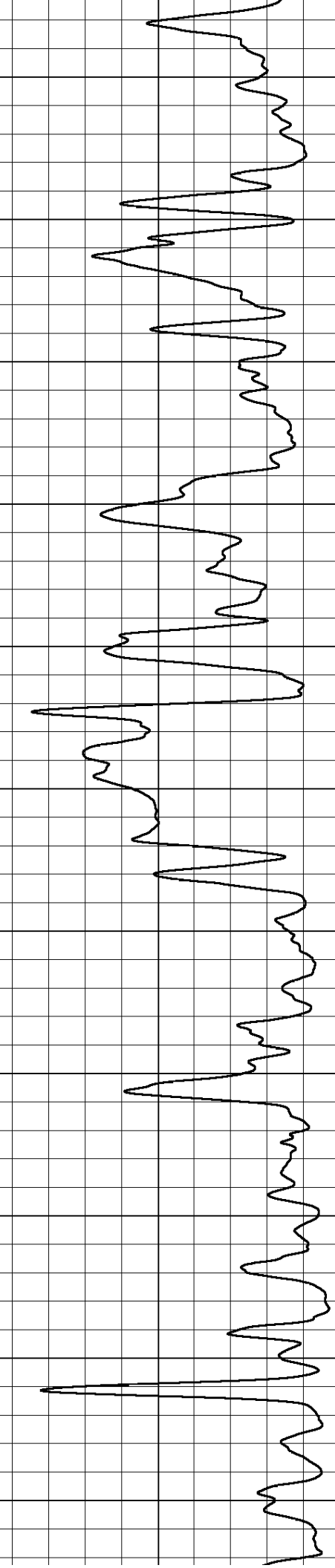
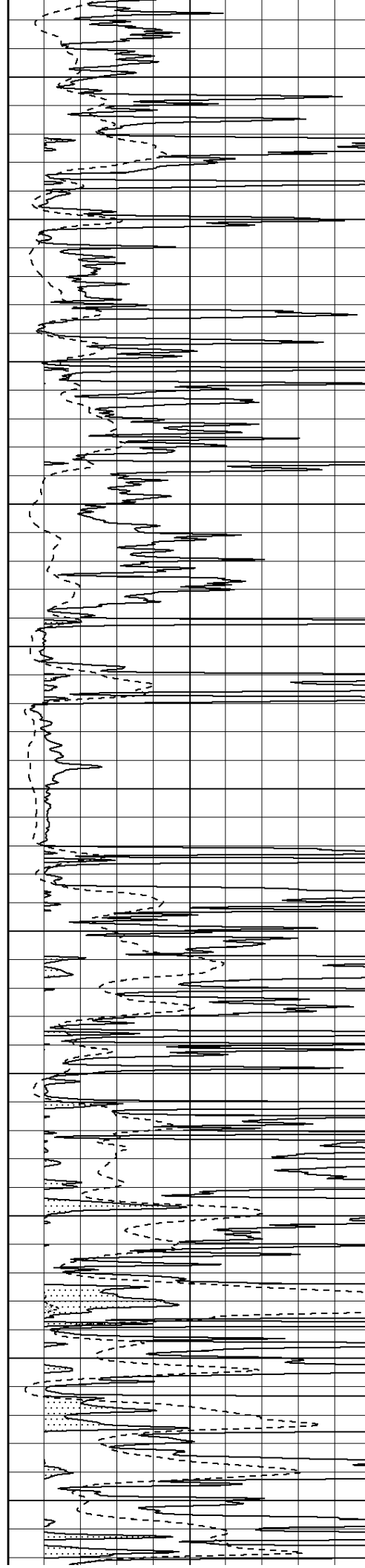
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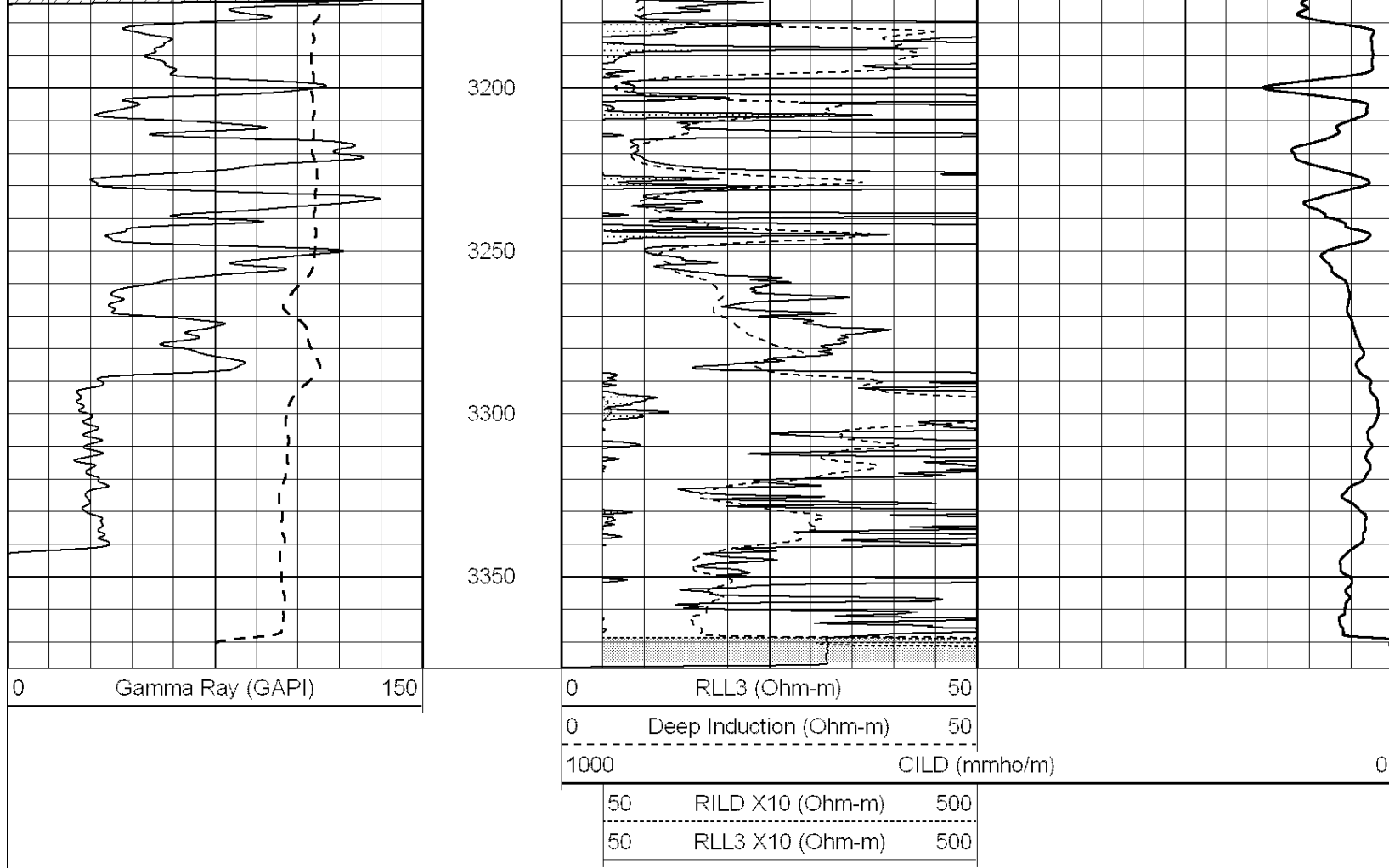
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3050

3100

3150





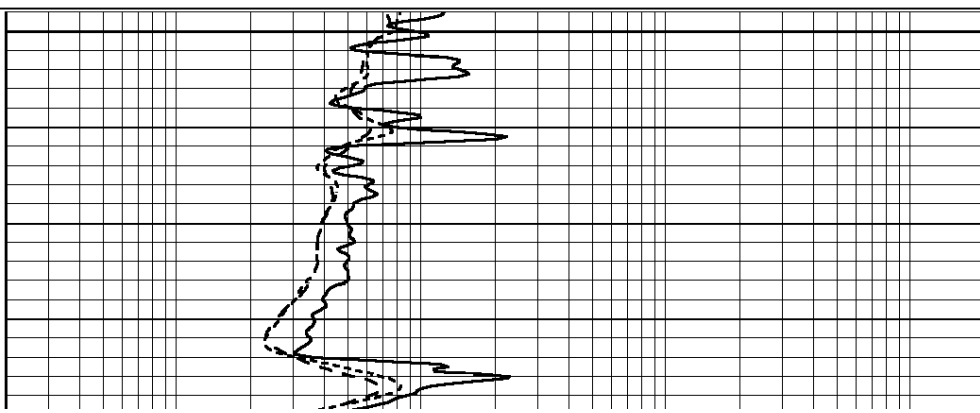
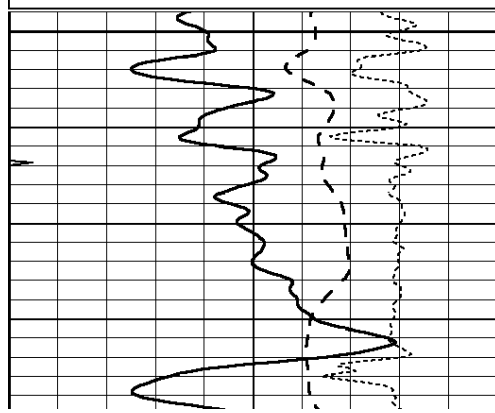
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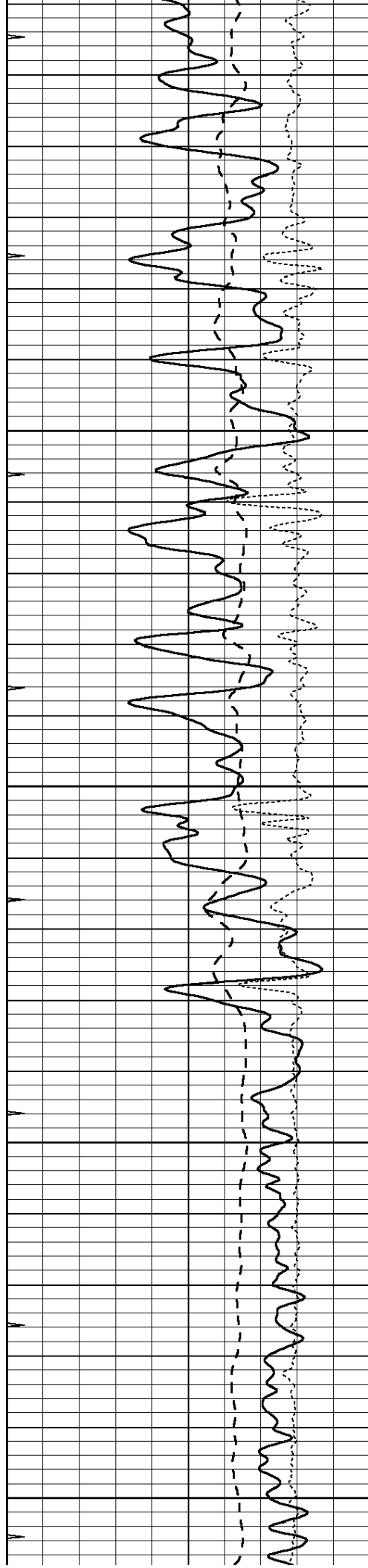
MAIN SECTION

Database File: 010155ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil
Dataset Creation: Thu Nov 29 08:16:09 2012
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





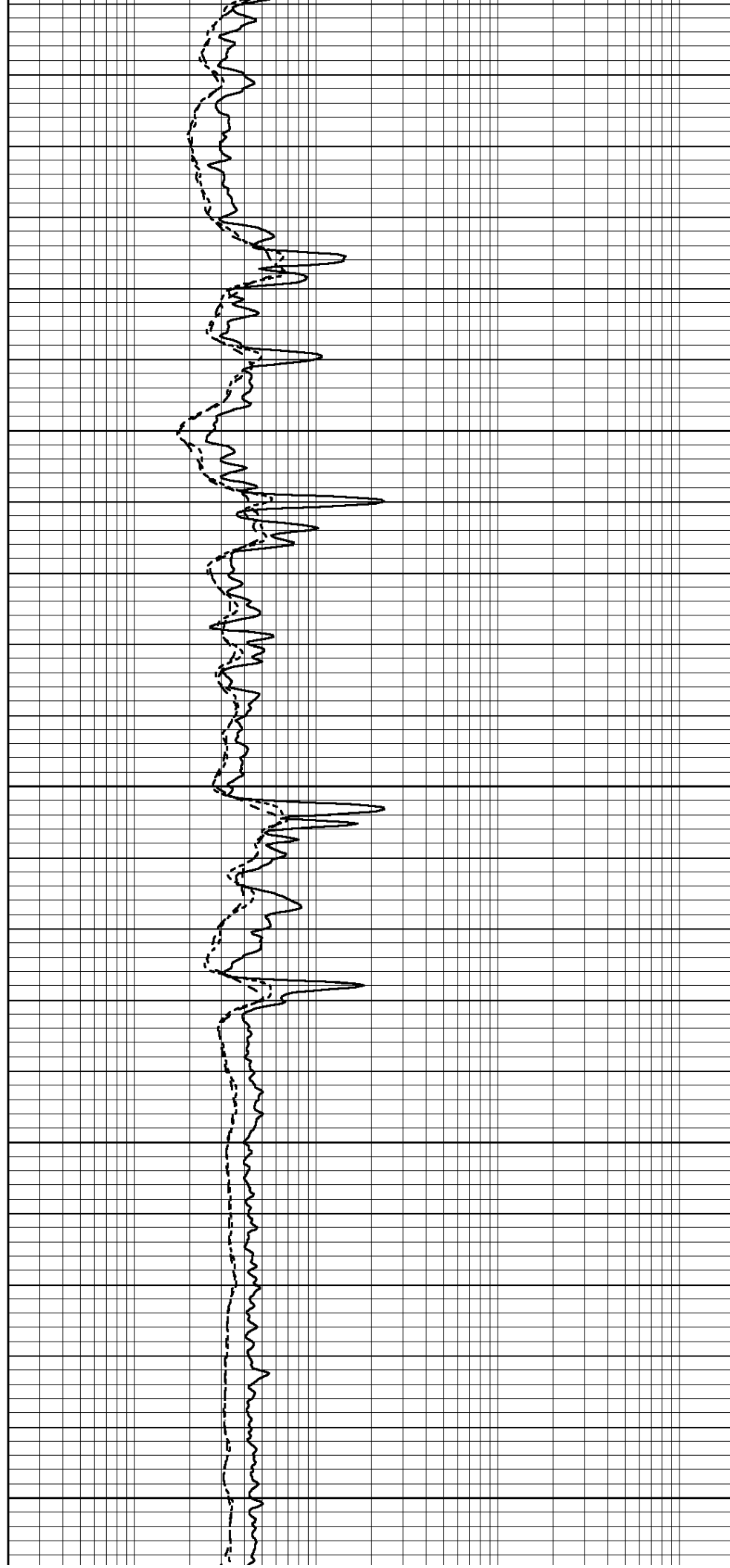
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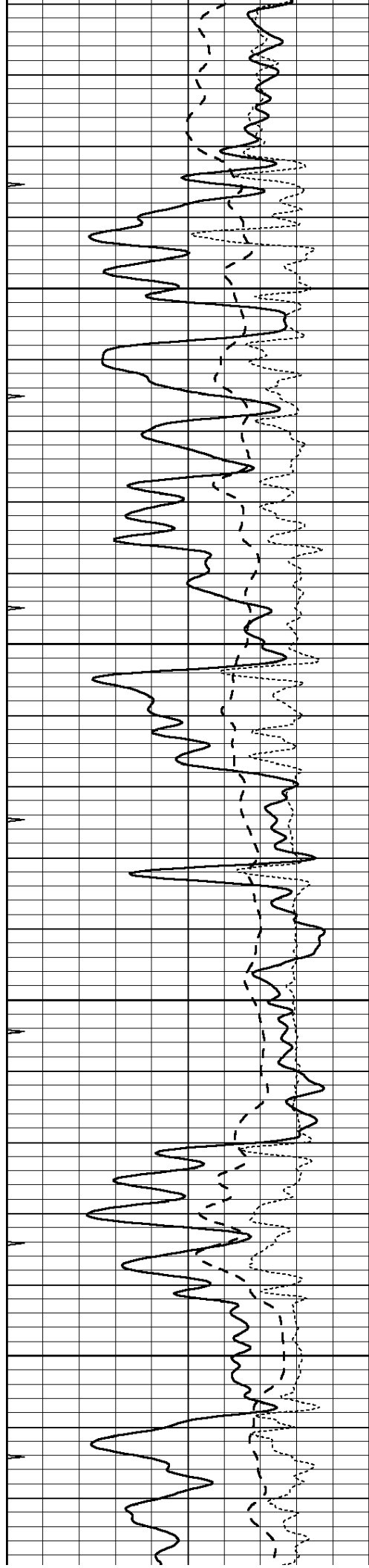
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2250

2300

2350



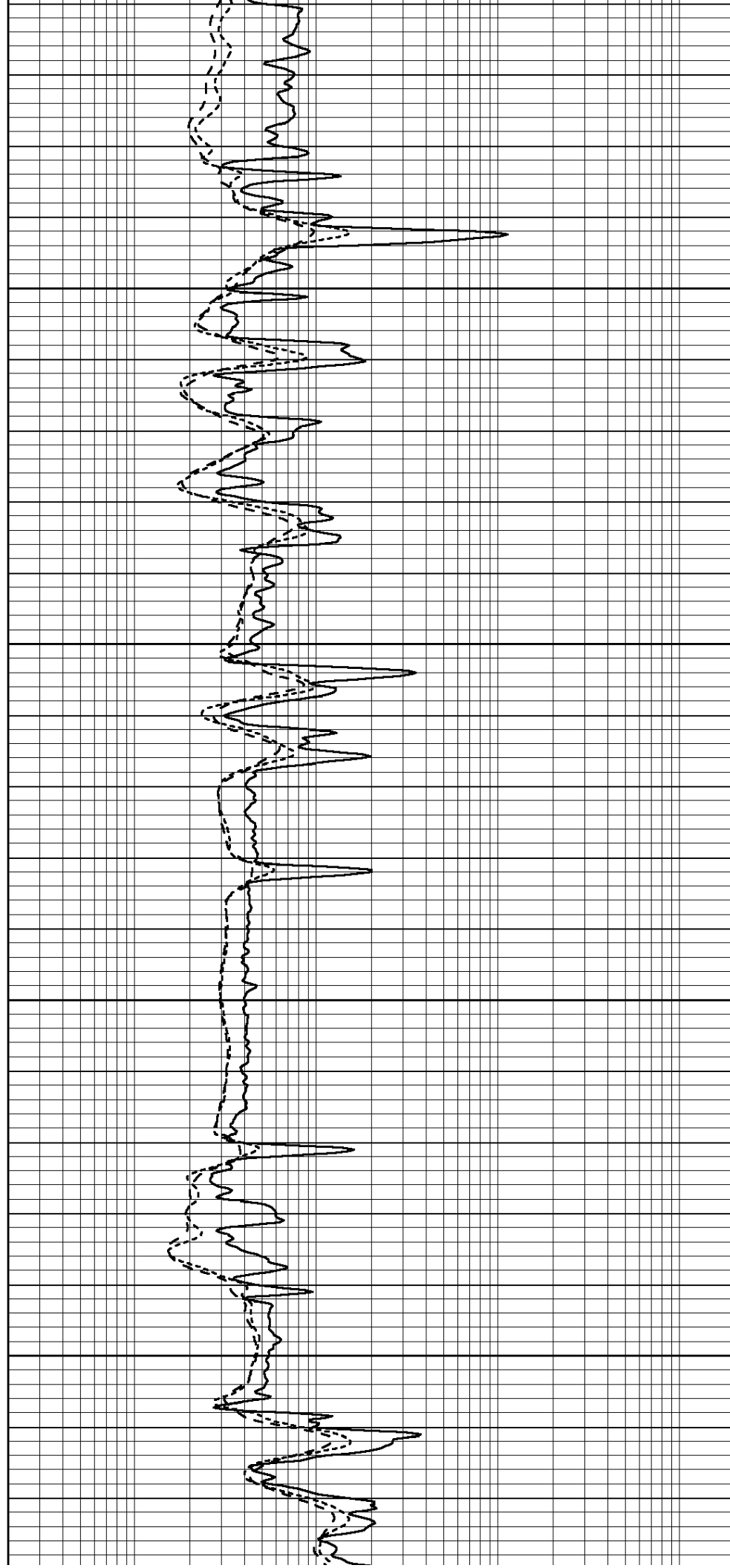


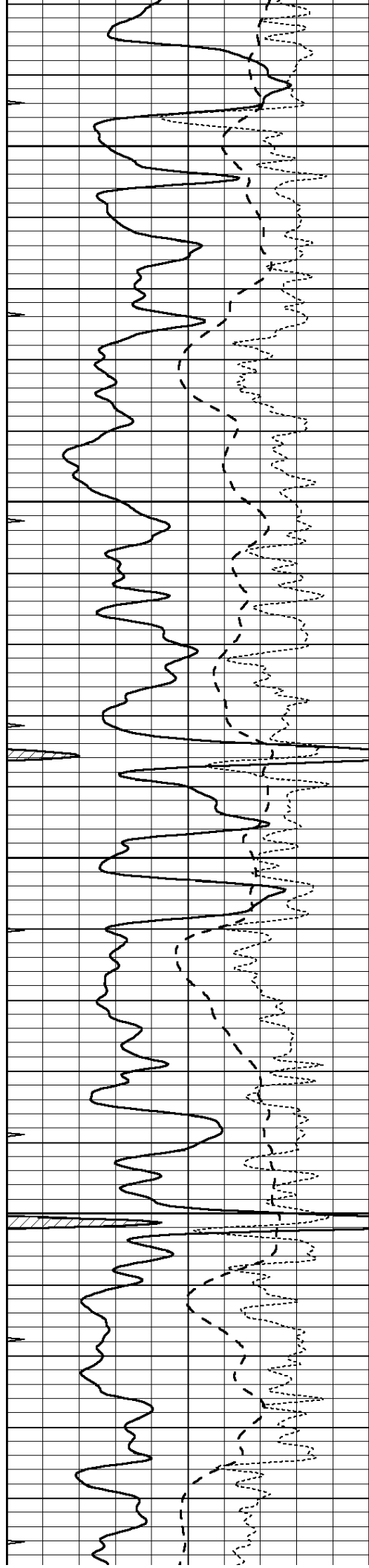
2400

2450

2500

2550



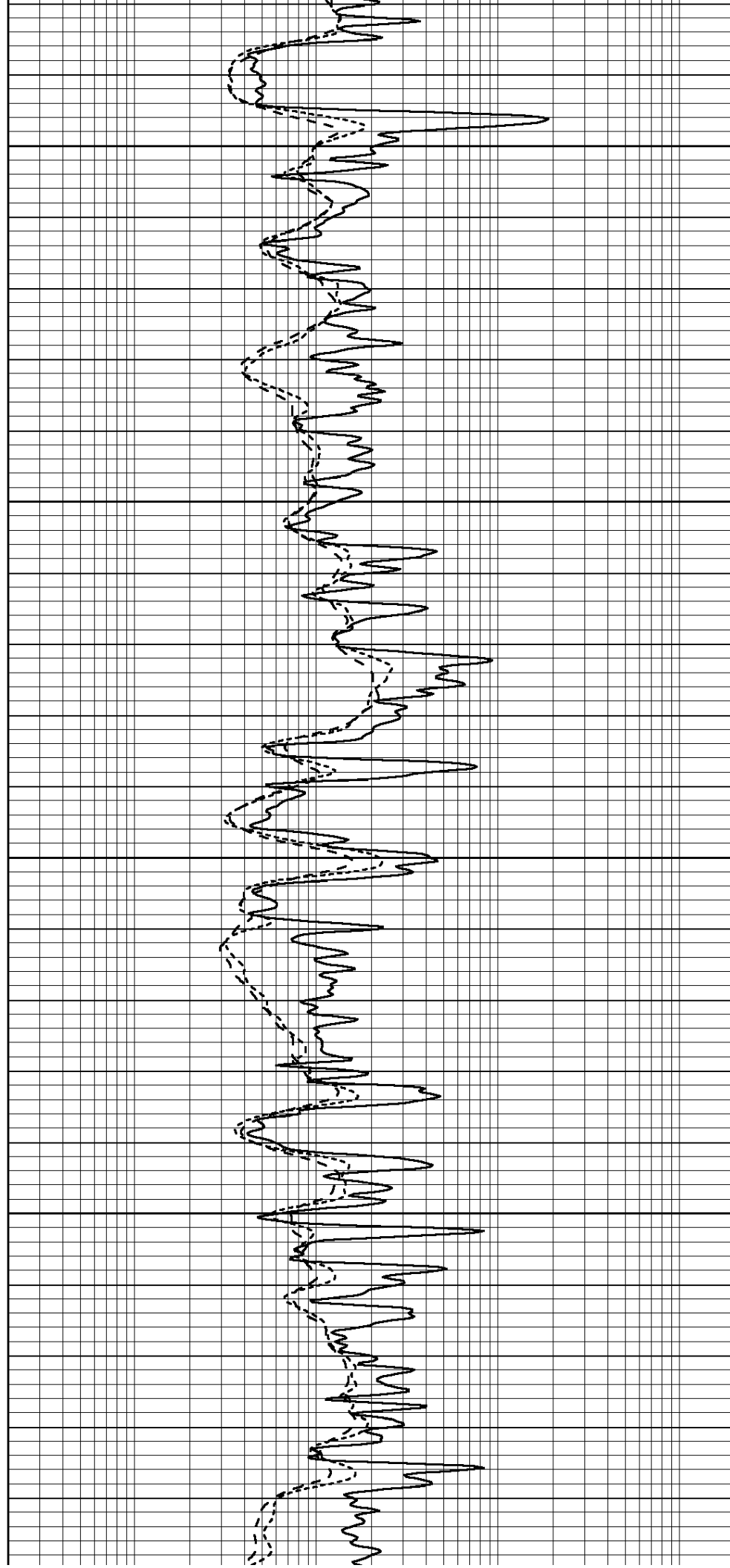


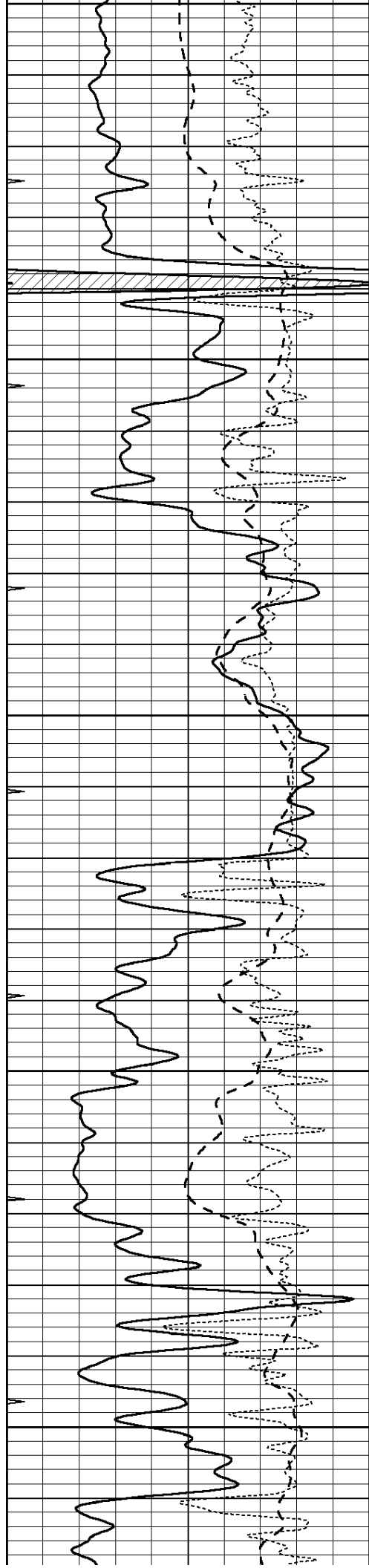
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2650

2700

2750





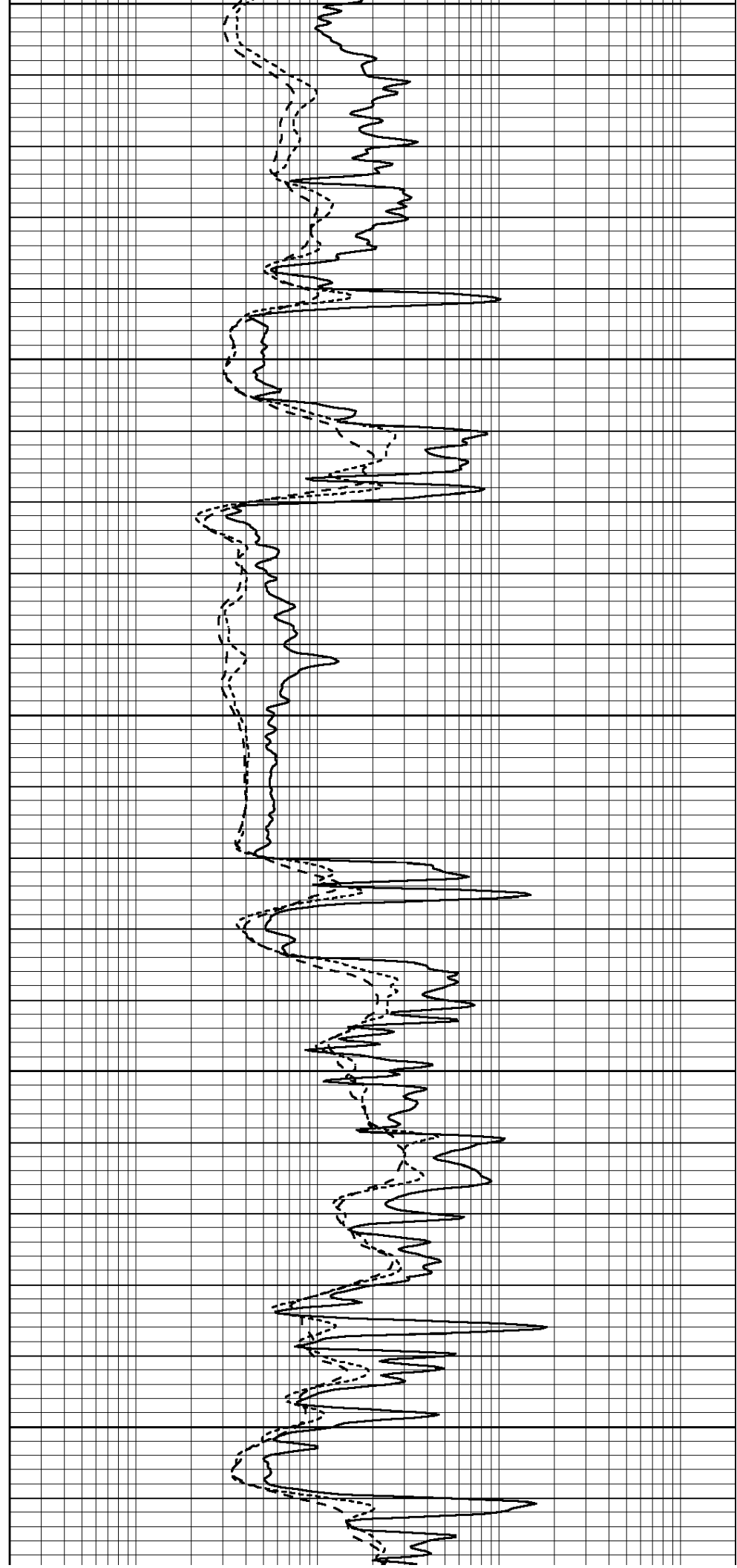
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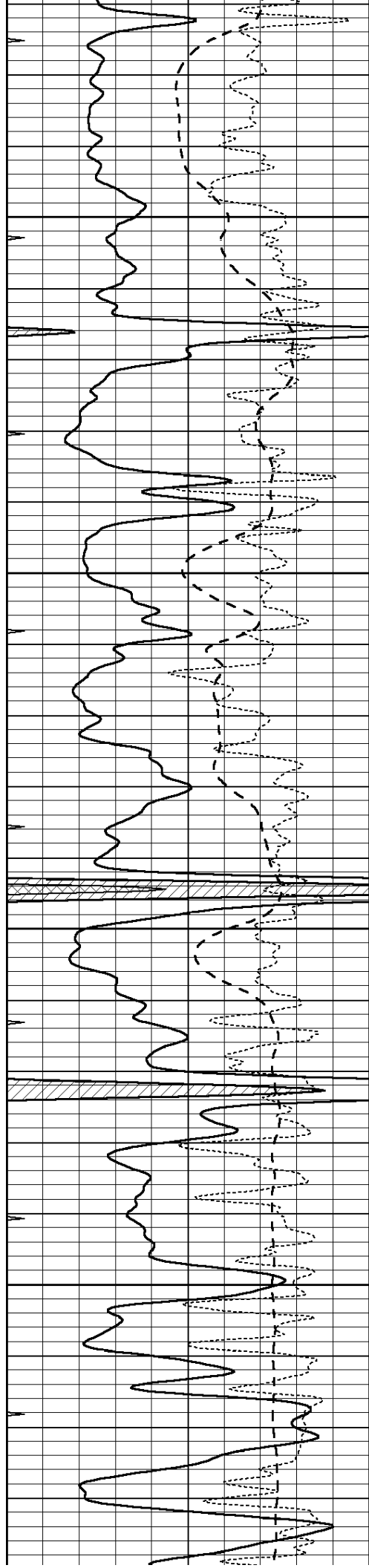
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2900

2950

3000



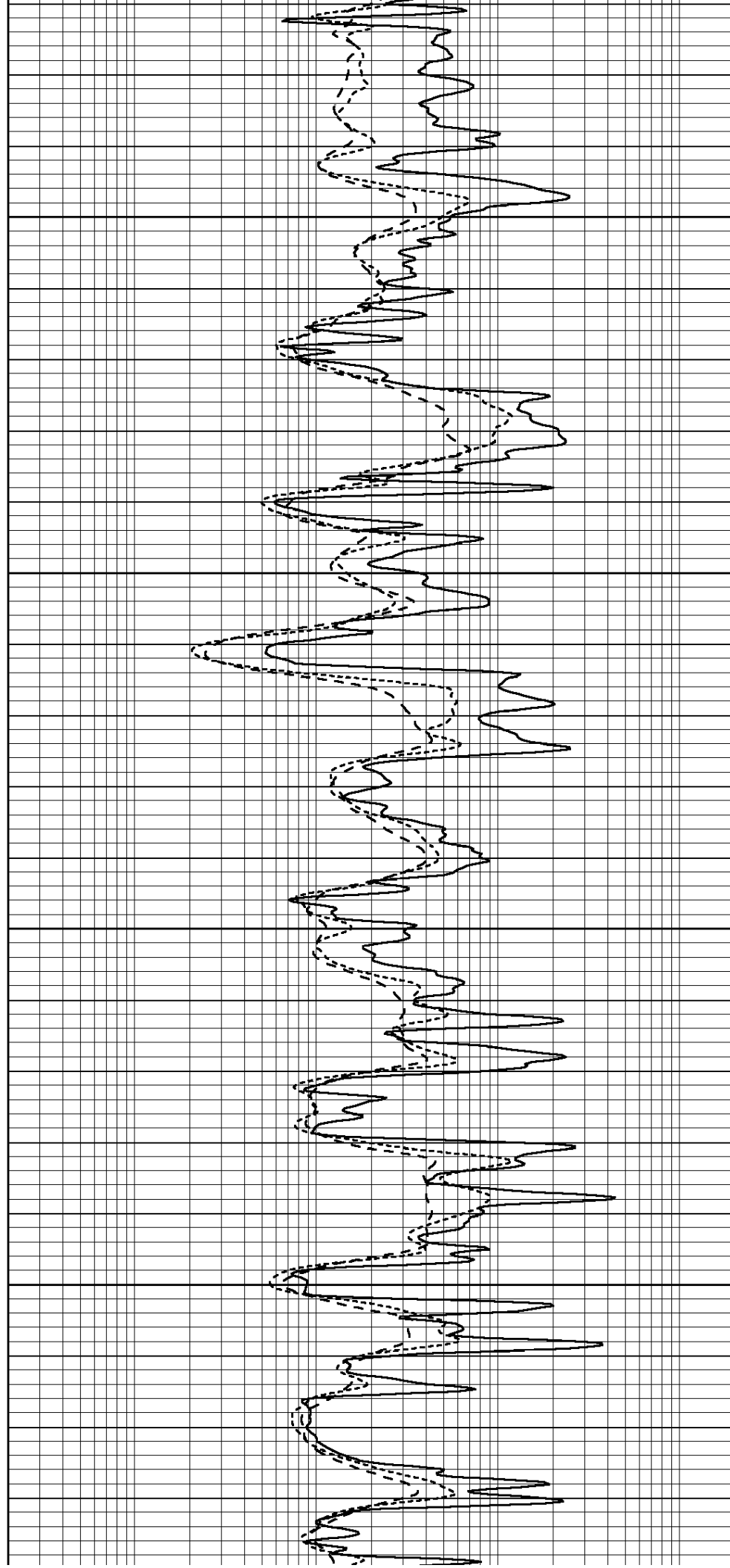


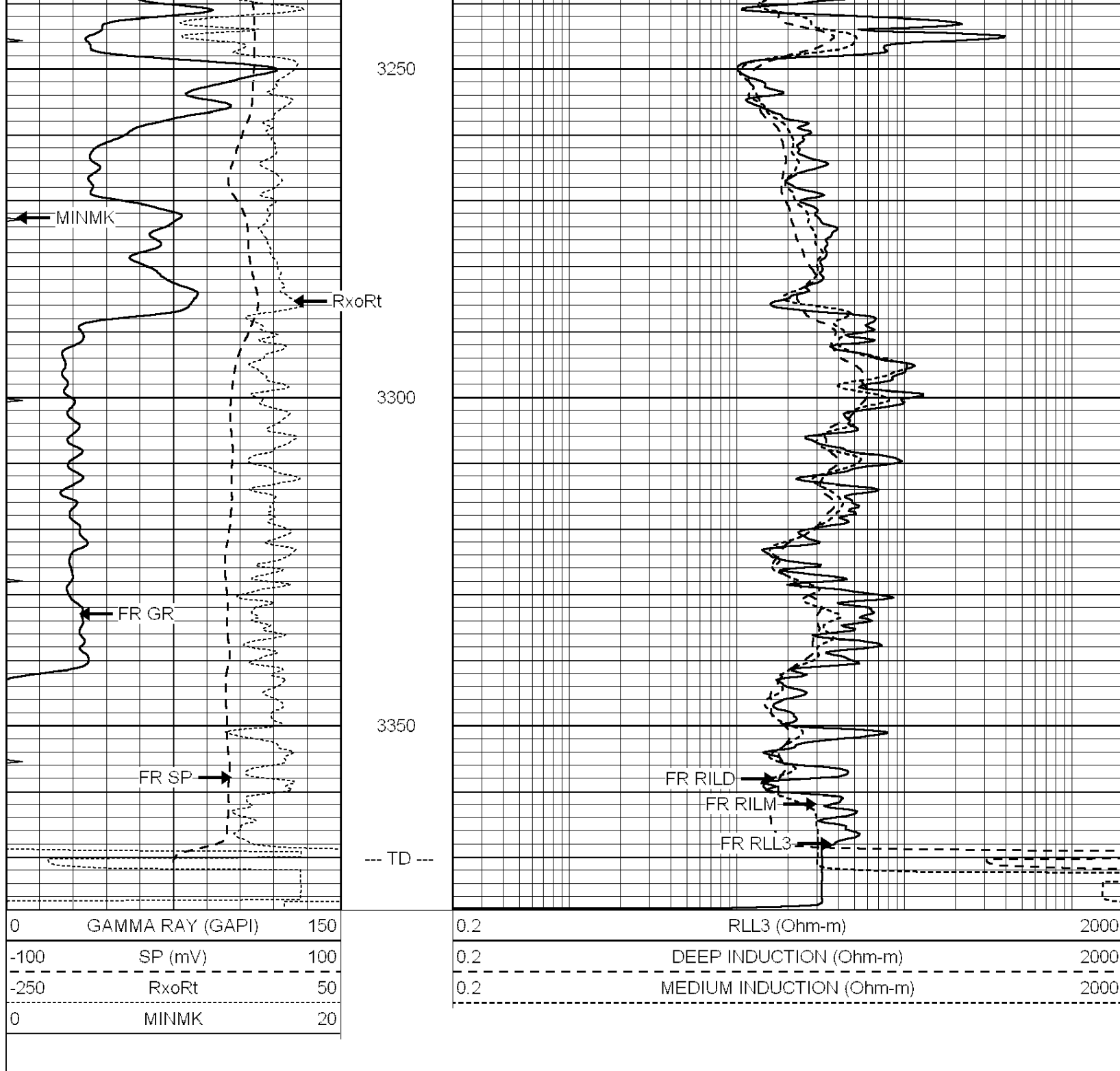
3050

3100

3150

3200

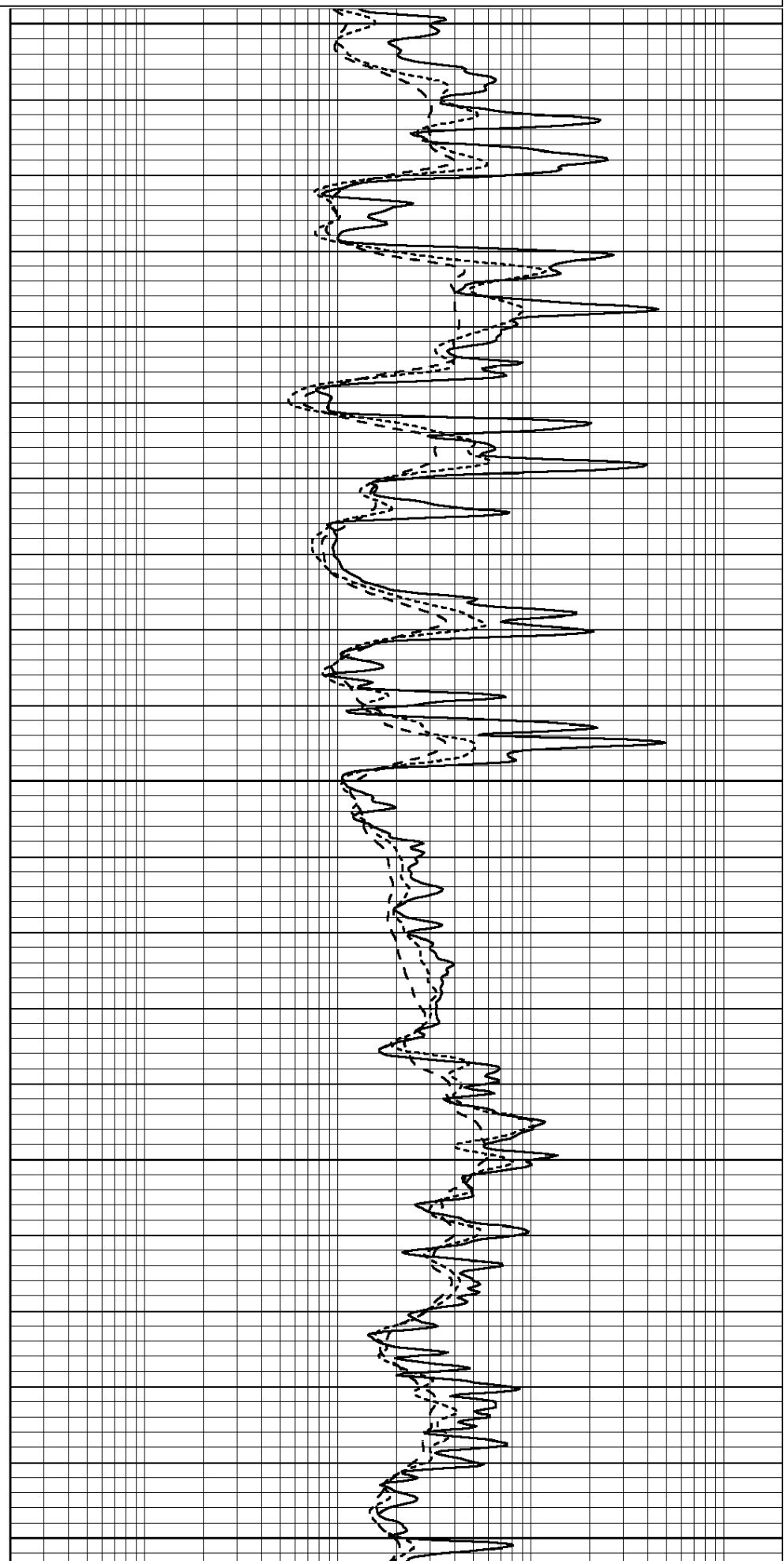
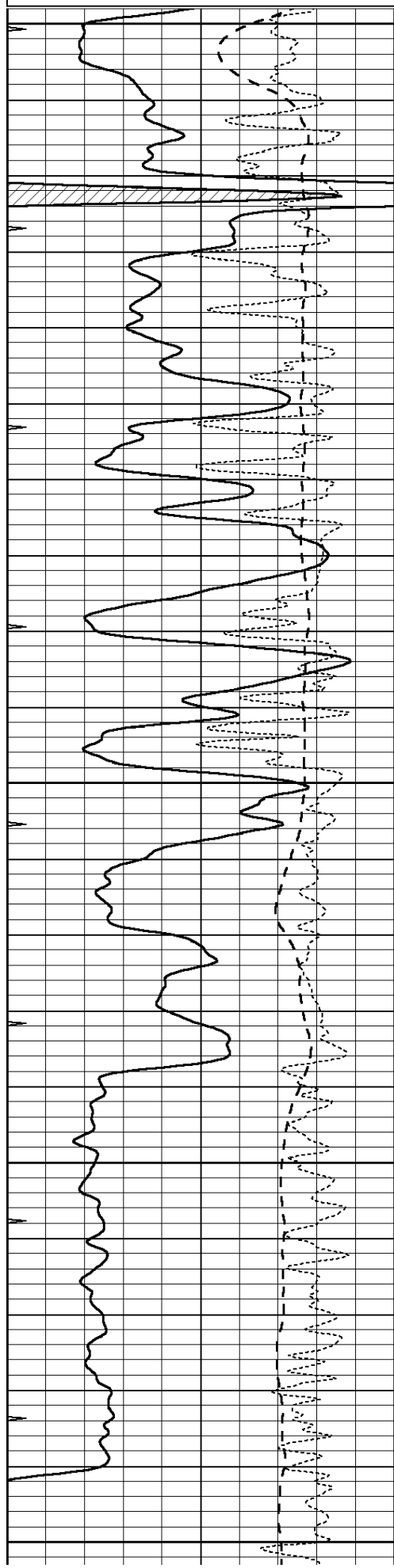


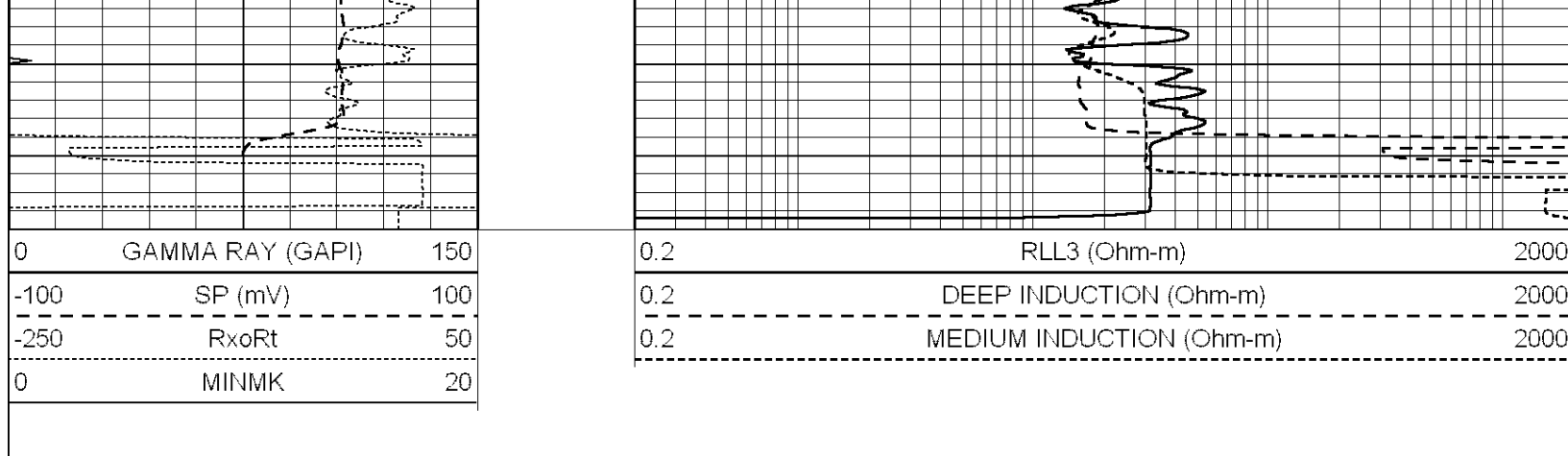


REPEAT SECTION

Database File: 010155ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: dil
 Dataset Creation: Thu Nov 29 08:23:26 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000





Calibration Report

Database File: 010155ddn.db
 Dataset Pathname: pass3.1A
 Dataset Creation: Thu Nov 29 08:16:09 2012

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Thu Nov 29 05:51:56 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-12.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	490.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
 Source / Verifier: 147 / 147
 Master Calibration Performed: Thu Nov 29 05:51:45 2012

Master Calibration						
	Density			Far Detector		Near Detector
Magnesium	1.710	g/cc		1205.67		613.10 cps
Aluminum	2.580	g/cc		277.64		430.46 cps
Spine Angle = 76.46				Density/Spine Ratio = 0.576		
	Size			Reading		
Small Ring	7.30	in		4.69	V	
Large Ring	14.00	in		6.52	V	

Compensated Neutron Calibration Report

Serial Number: NUE_2I
 Tool Model: G

CALIBRATION				
Detector	Readings		Target	Normalization
Short Source	1.00	cps	1.00	cps
Long Source	1.00	cps	1.00	cps

Short Space	1.00	cps	1.00	cps	1.0000
Long Space	1.00	cps	1.00	cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Thu Nov 29 07:03:19 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7500	GAPI/cps