



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	BUFFALO RESOURCES, LLC.		
Well	MOG #1-28		
Field	WILDCAT		
County	RUSSELL	State	KANSAS
Location:	API #: 15-167-23568 335' FNL & 2160' FEL NE/4		Other Services CDL/CNL SONIC/MEL
Permanent Datum	GROUND LEVEL	Elevation	1723
Log Measured From	KELLY BUSHING 8' A.G.L.		
Drilling Measured From	KELLY BUSHING	Elevation	K.B. 1731 D.F. G.L. 1723
Date	4-25-09		
Run Number	ONE		
Depth Driller	3290		
Depth Logger	3290		
Bottom Logged Interval	3288		
Top Log Interval	00		
Casing Driller	394		
Casing Logger	394		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.6 / 57		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.90 @ 80F		
Rinf @ Meas. Temp	0.68 @ 80F		
Rmc @ Meas. Temp	1.08 @ 80F		
Source of Rinf / Rmc	FLOWLINE		
Rim @ BHT	.670 @ 108F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	108F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	CURTIS COVEY		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: WILSON & HOLYROOD RD., 7S TO STICKNEY RD., 3 1/2W, S INTO.



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MAIN SECTION

Database File: 003246ddn.db
Dataset Pathname: pass3.1A
Presentation Format: dil2
Dataset Creation: Sat Apr 25 20:17:32 2009 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

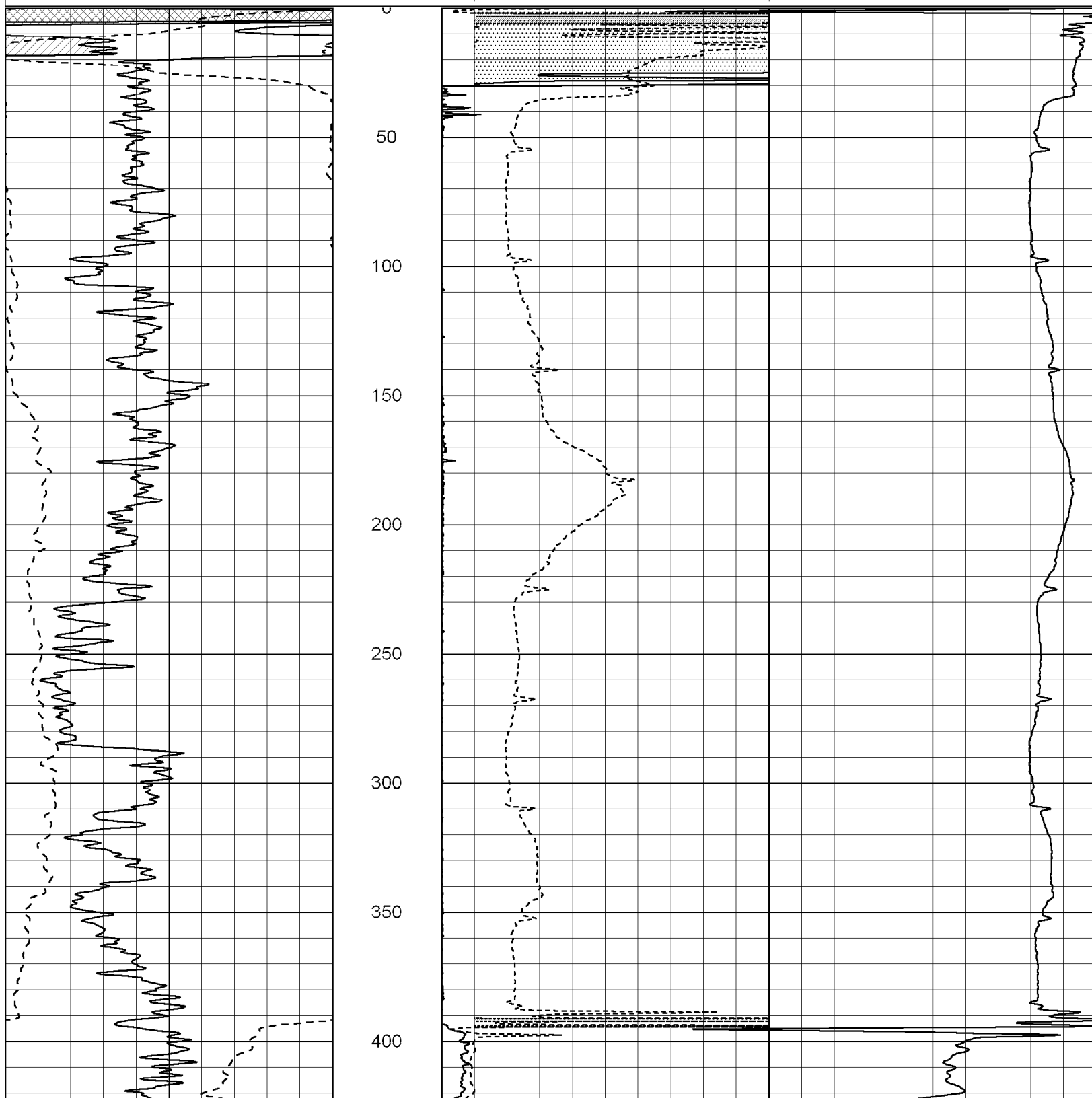
0	RLL3 (Ohm-m)	50
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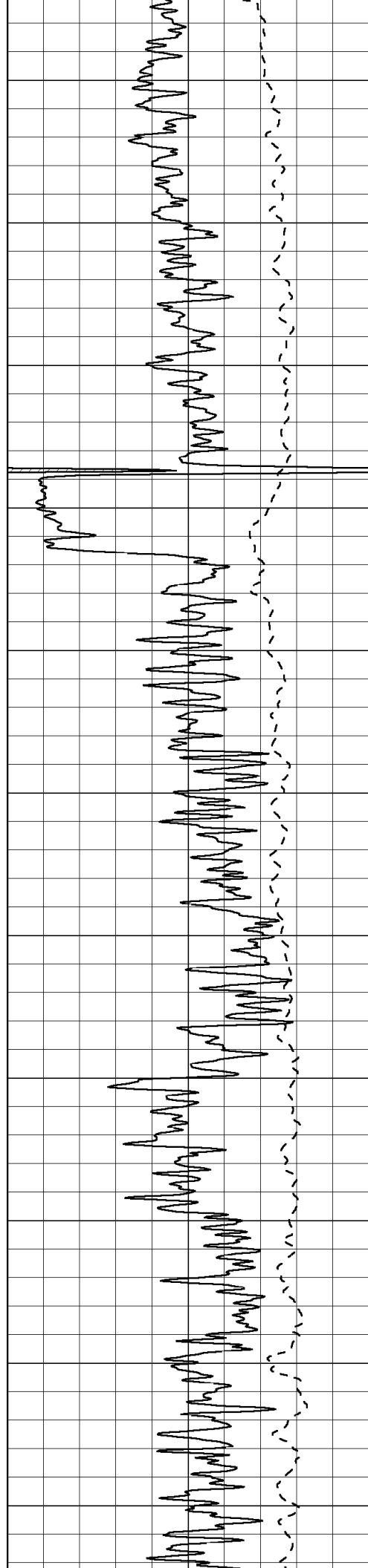
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1000	CILD (mmho-m)	0
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50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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450

500

550

600

650

700

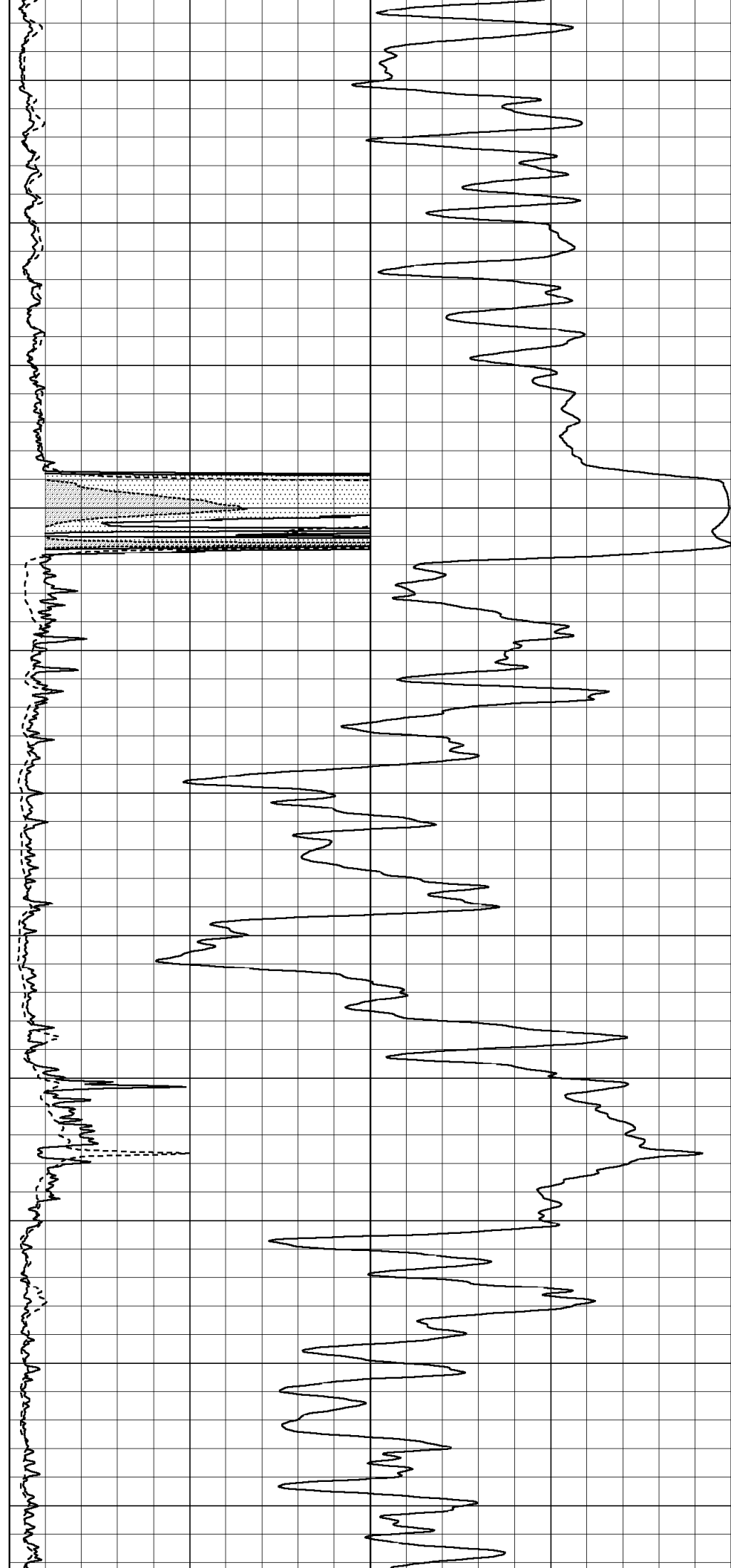
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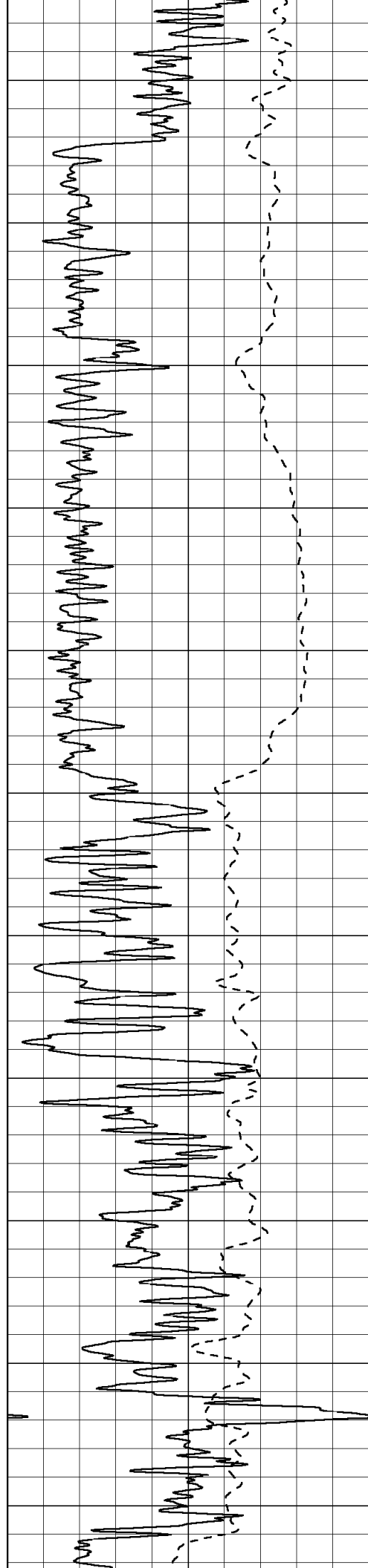
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850

900

950





1000

1050

1100

1150

1200

1250

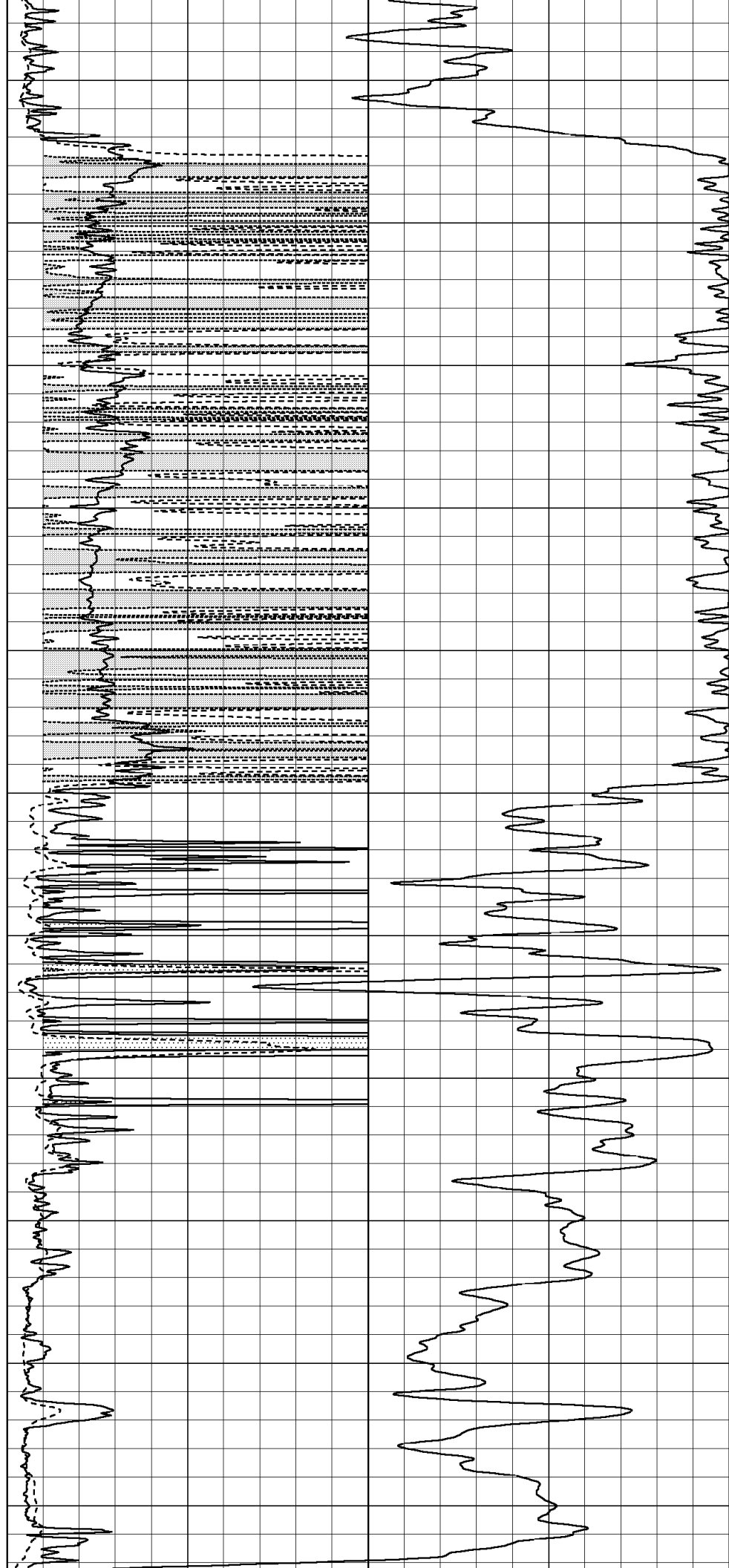
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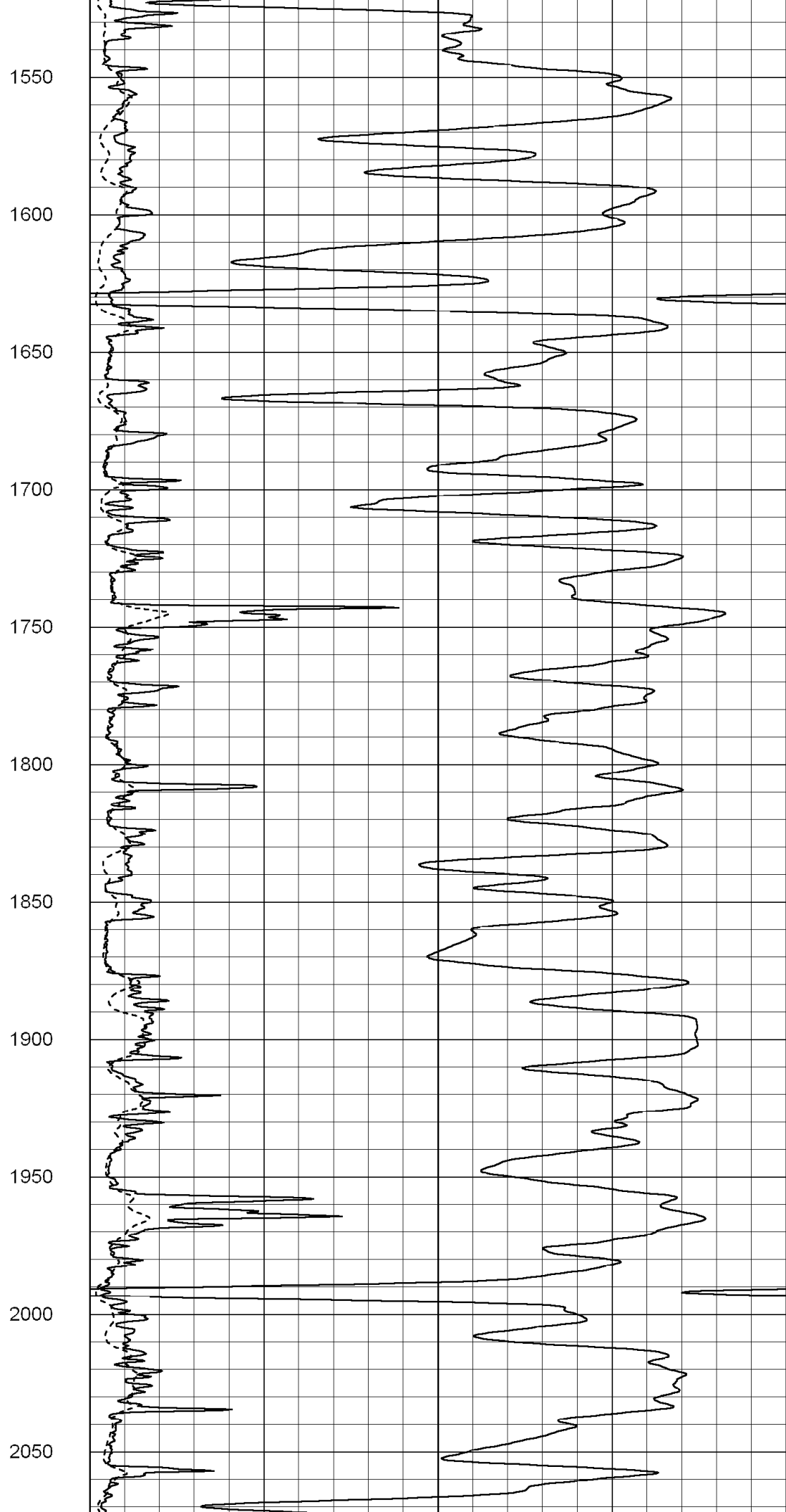
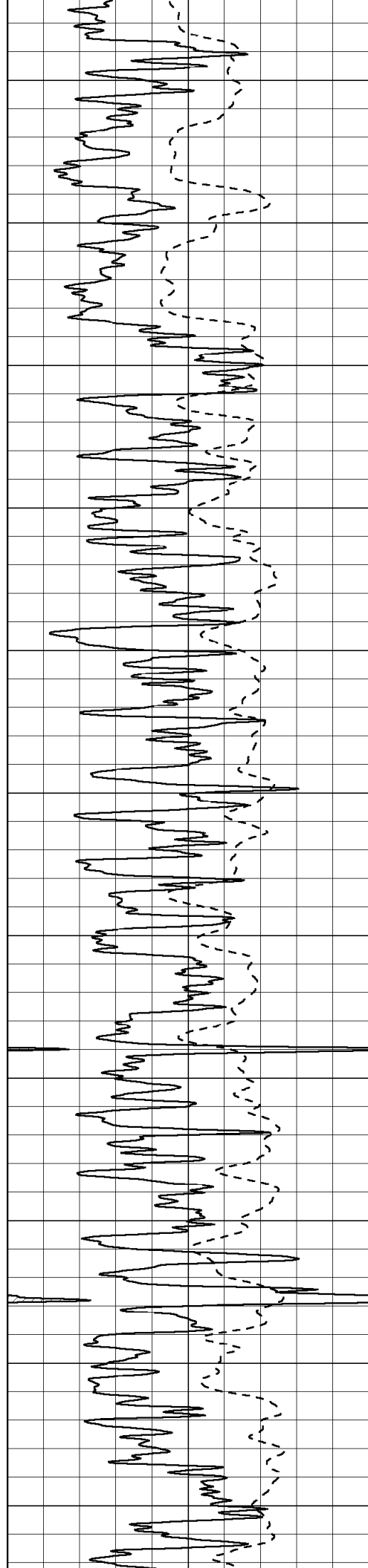
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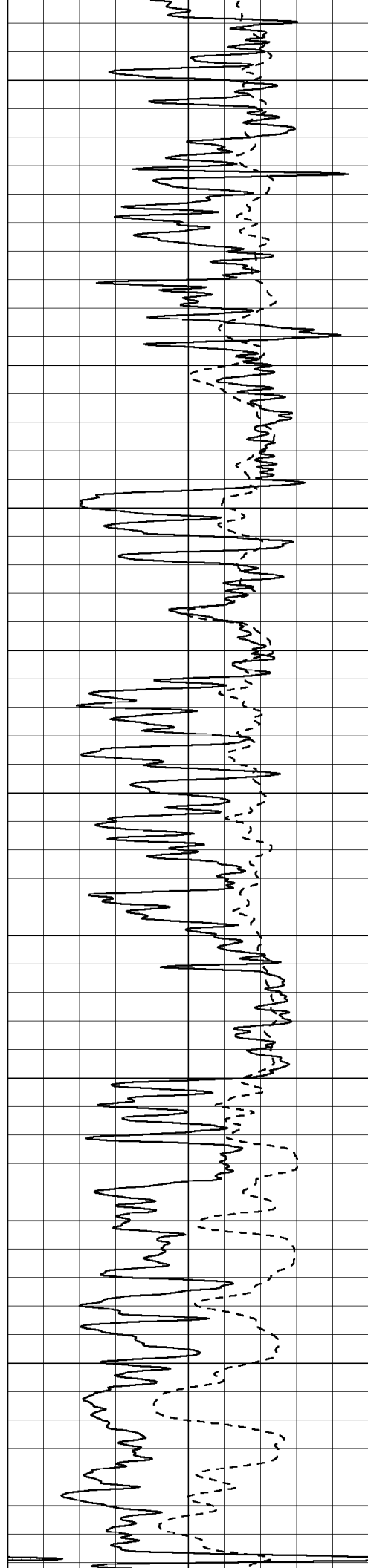
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1450

1500







2100

2150

2200

2250

2300

2350

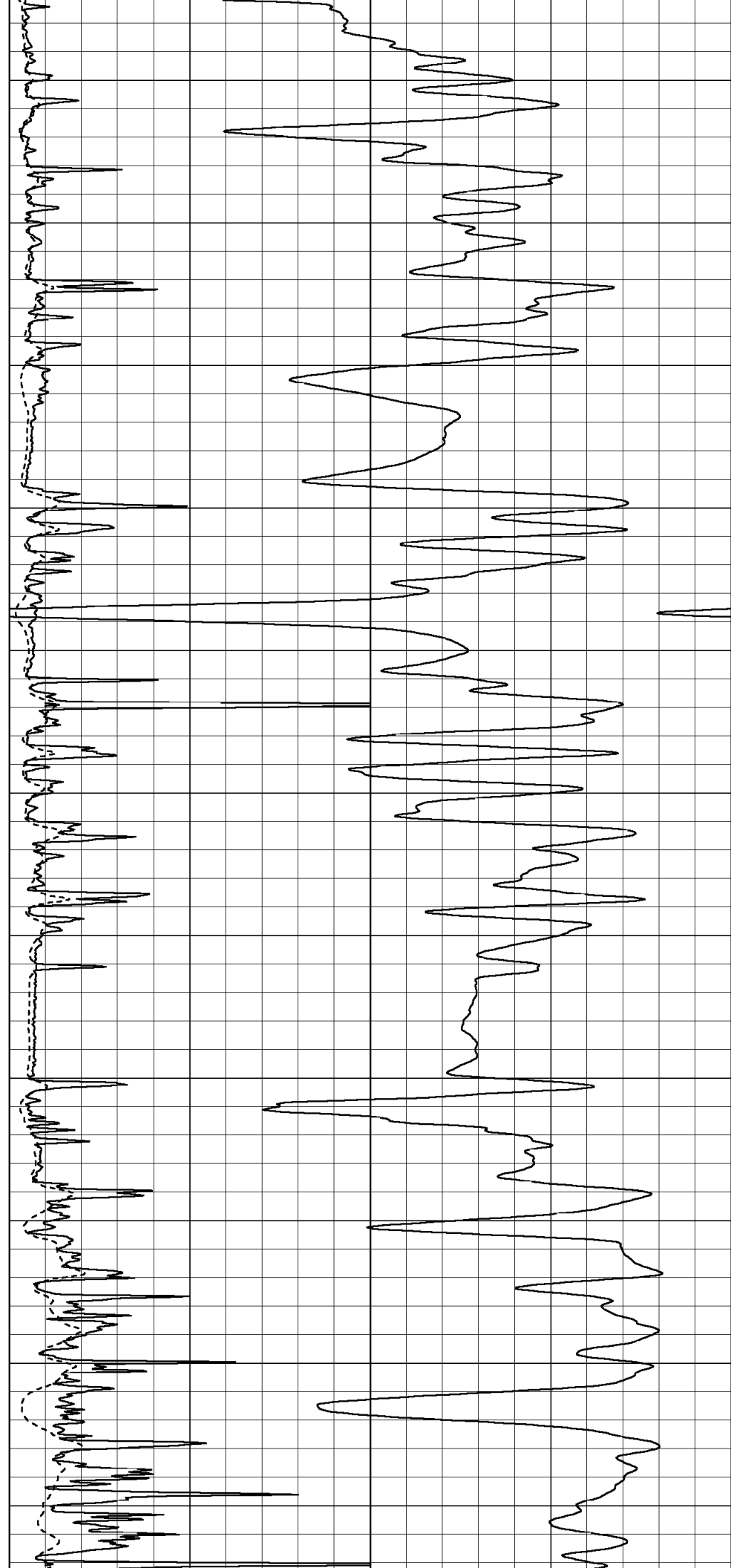
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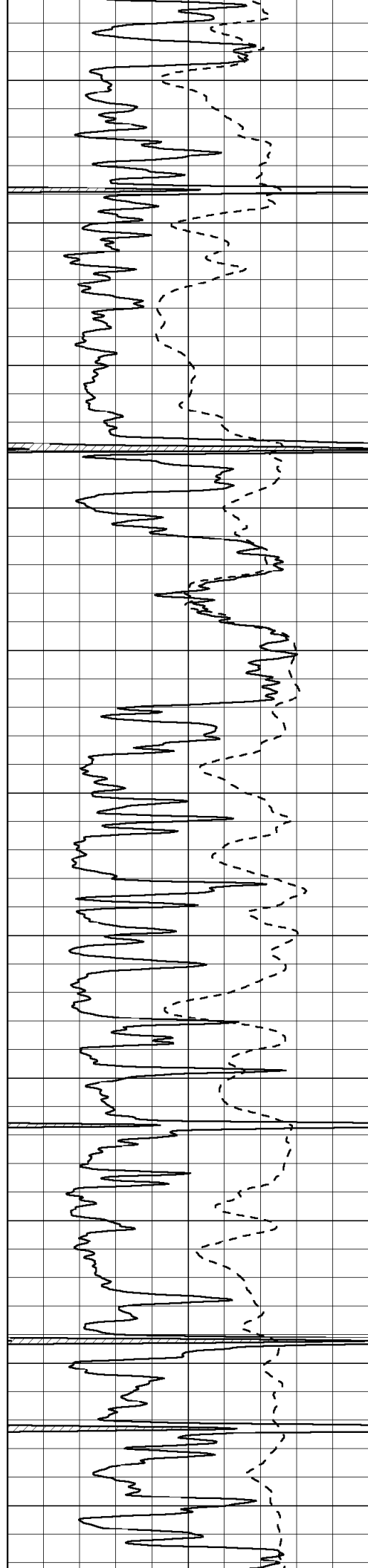
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2500

2550

2600





2650

2700

2750

2800

2850

2900

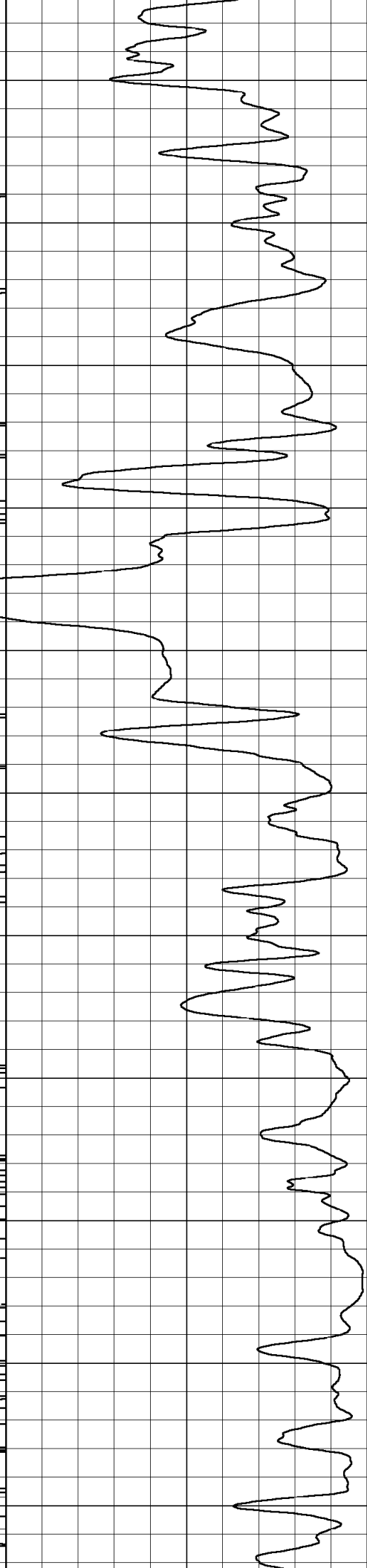
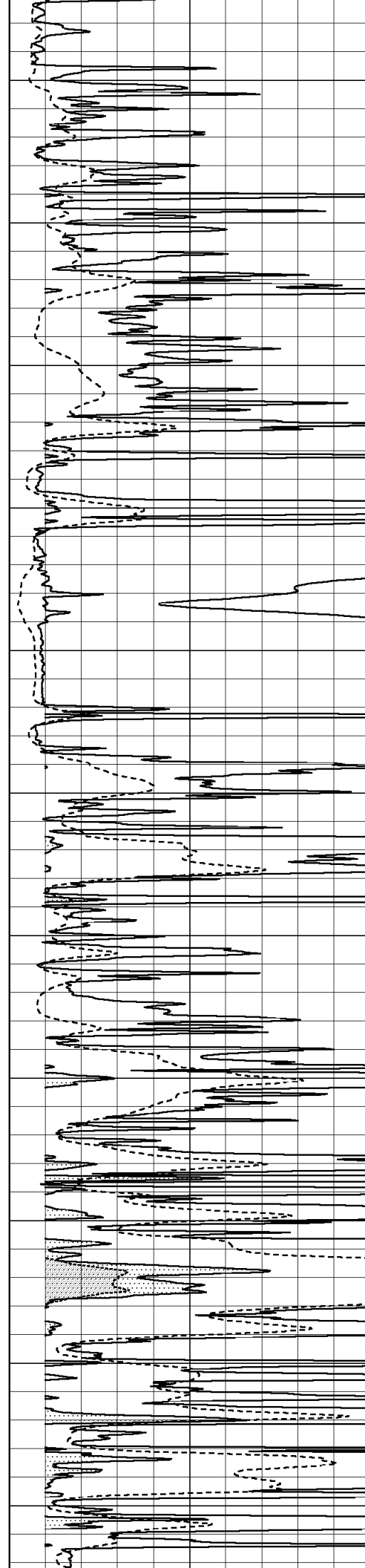
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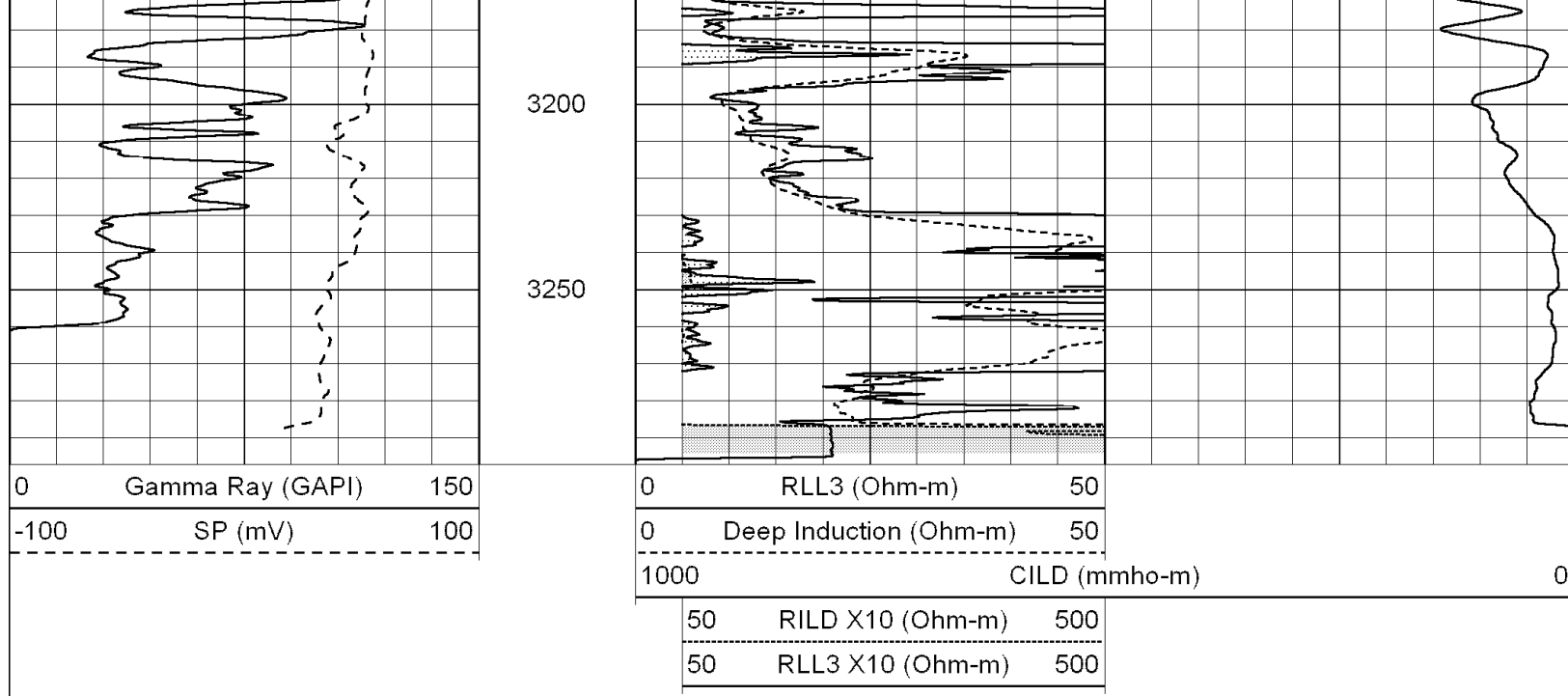
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3050

3100

3150



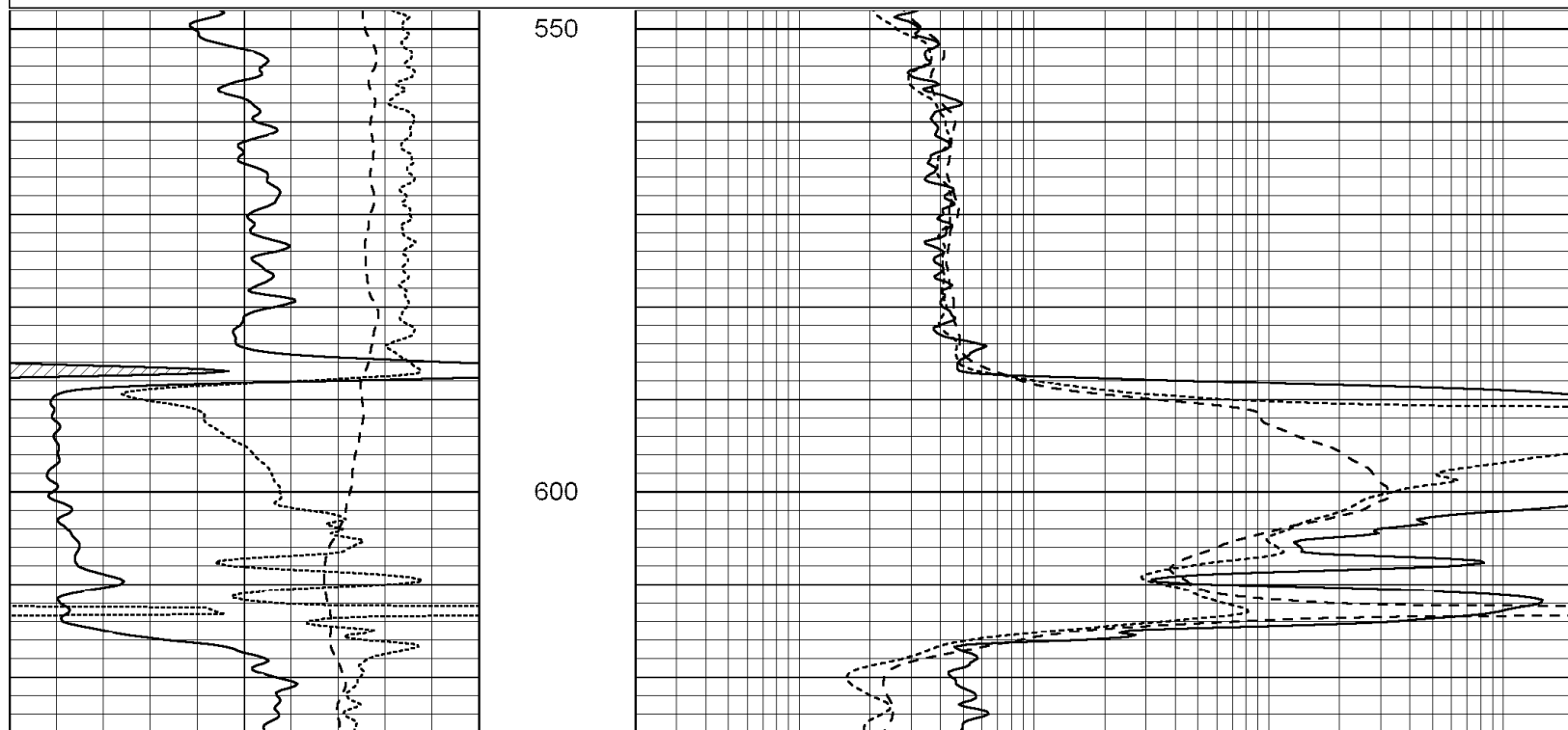


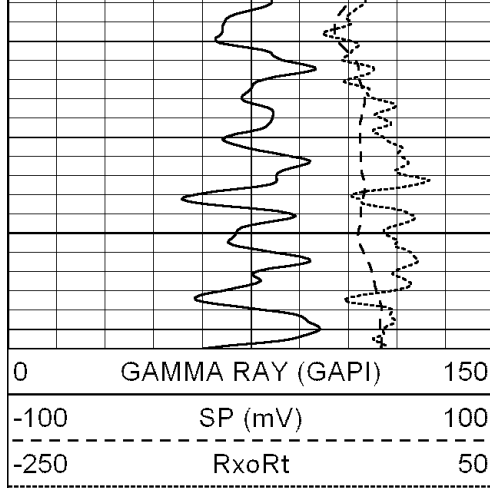
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MAIN SECTION

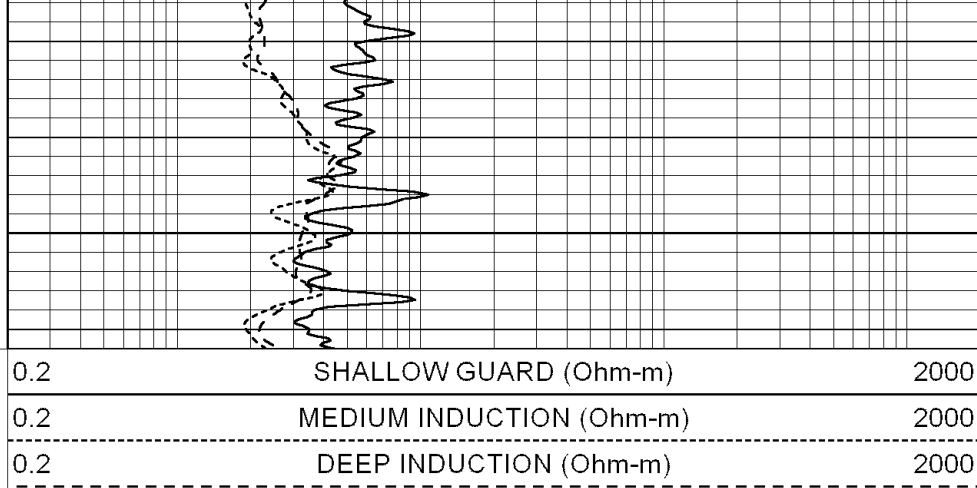
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 Dataset Pathname: pass3.1A
 Presentation Format: dil
 Dataset Creation: Sat Apr 25 20:17:32 2009 by Calc Open-Cased 051020
 Charted by: Depth in Feet scaled 1:240

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





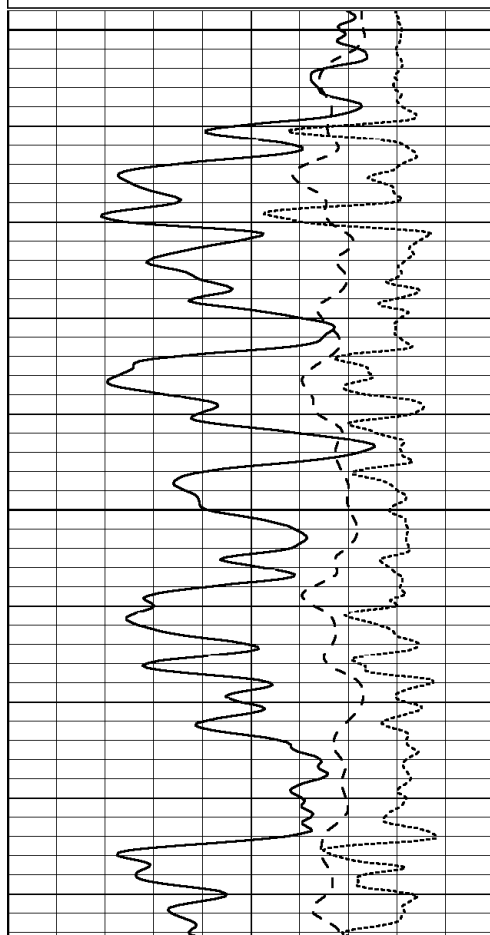
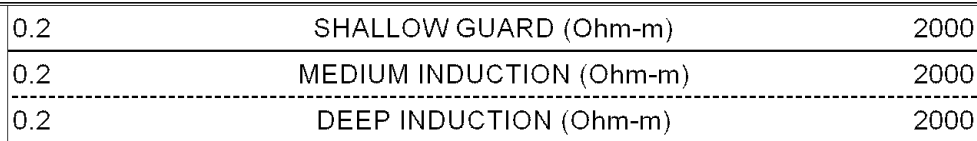
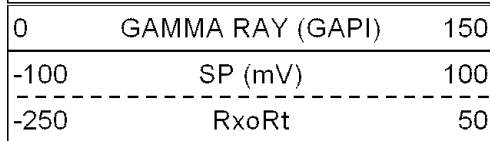
650



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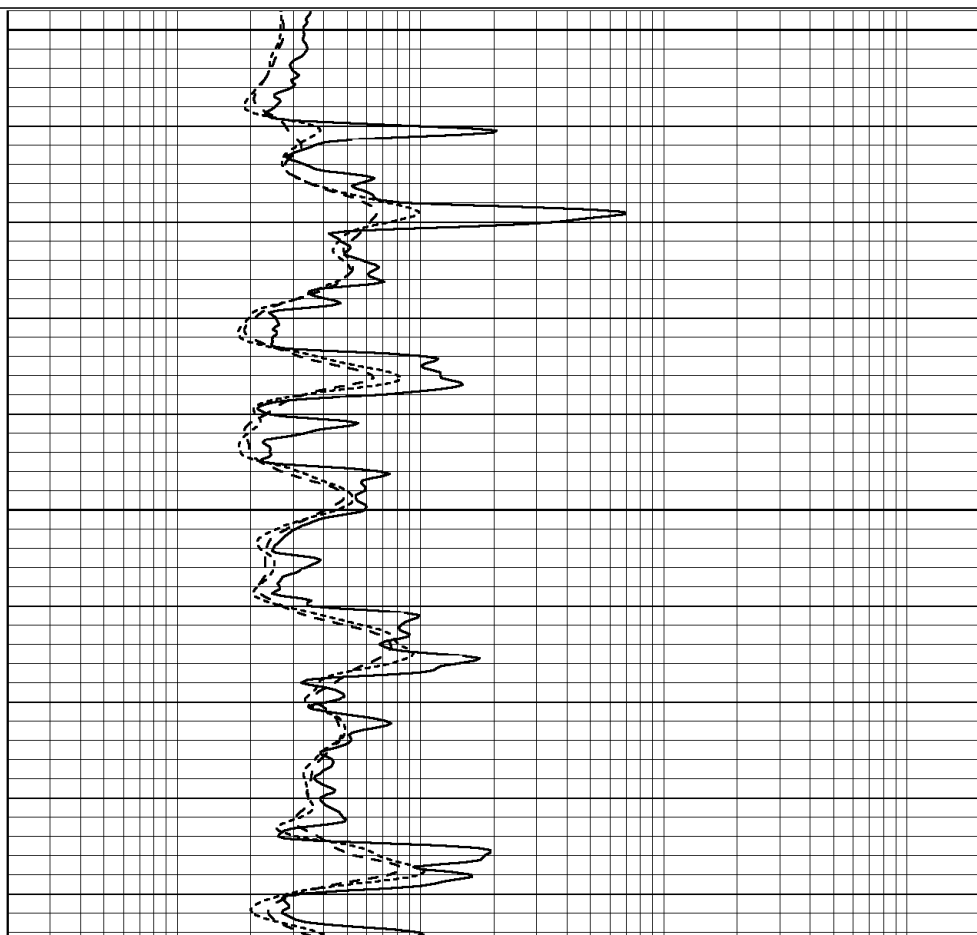
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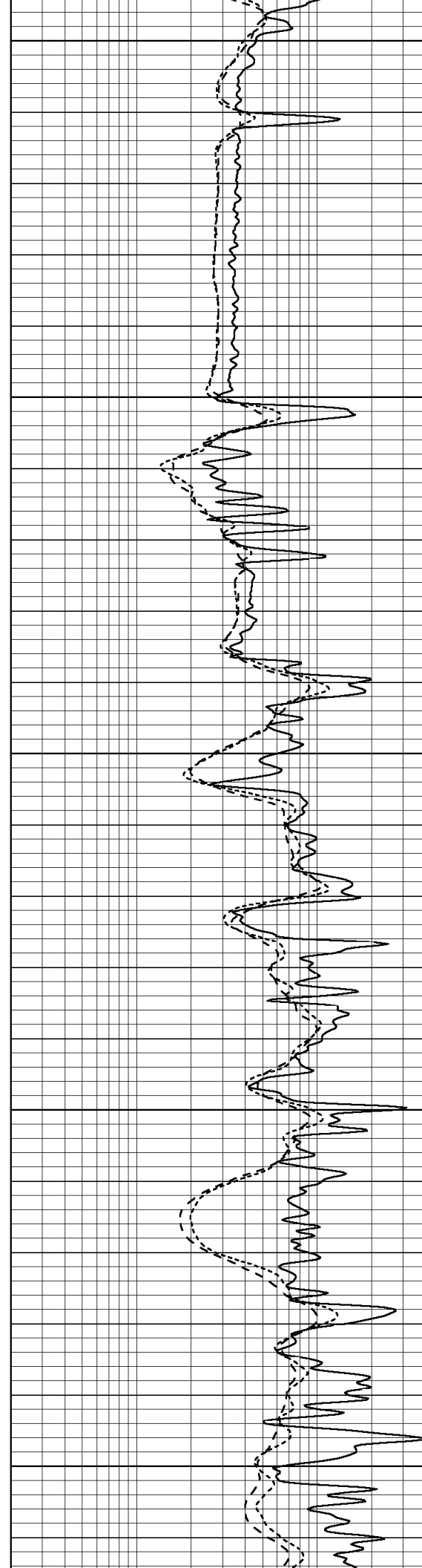
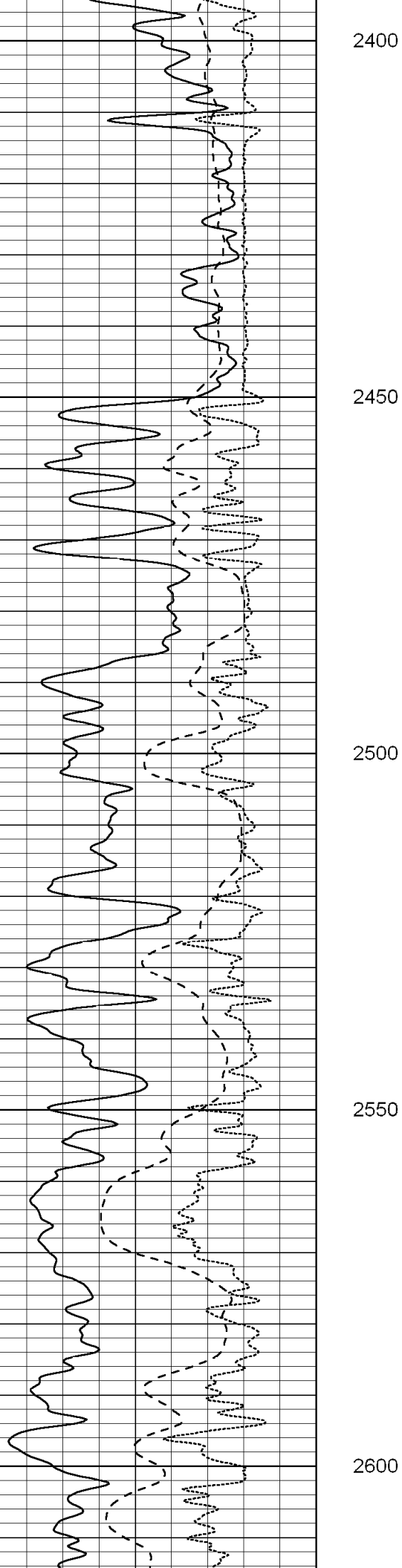
Database File: 003246ddn.db
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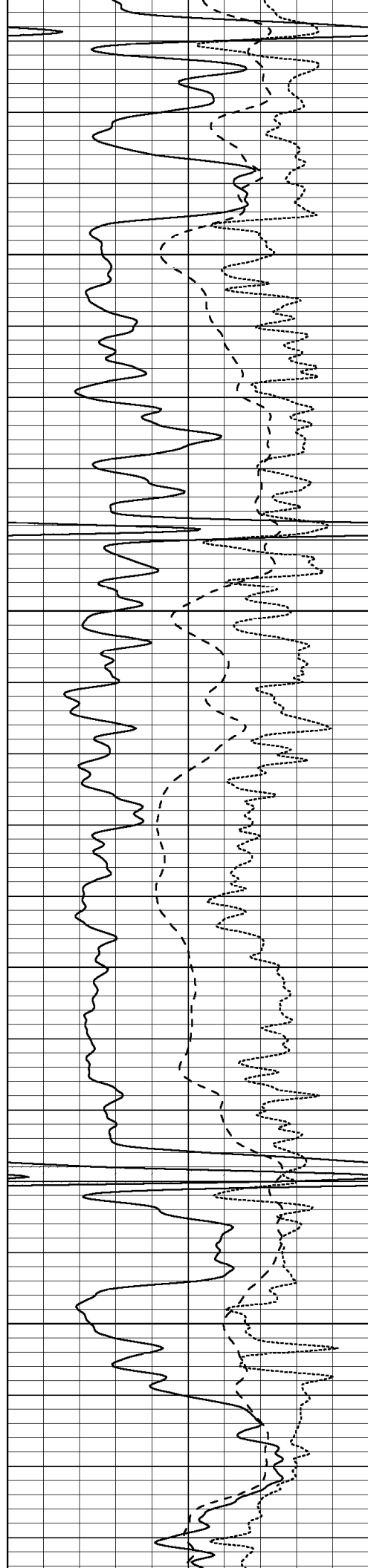


2300

2350





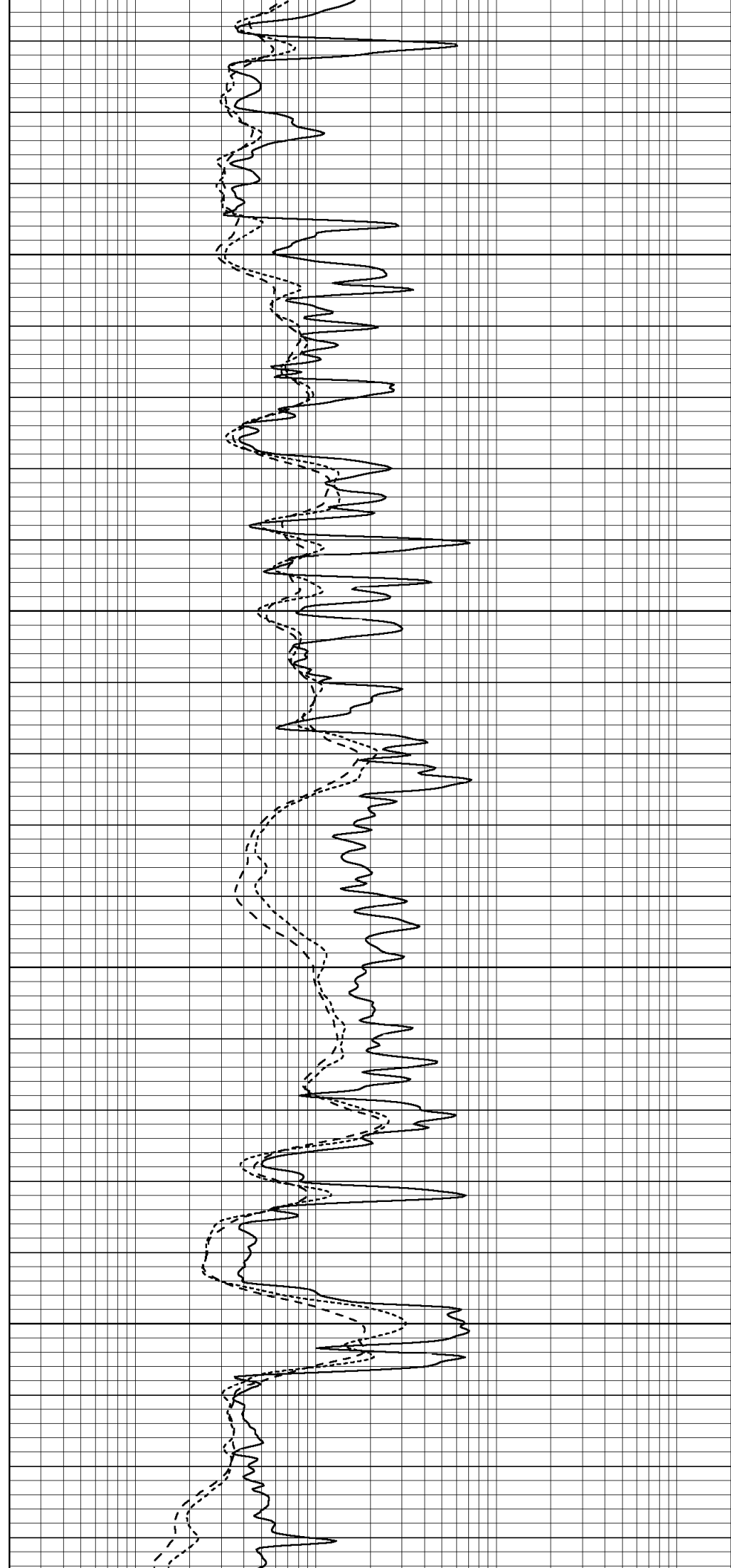


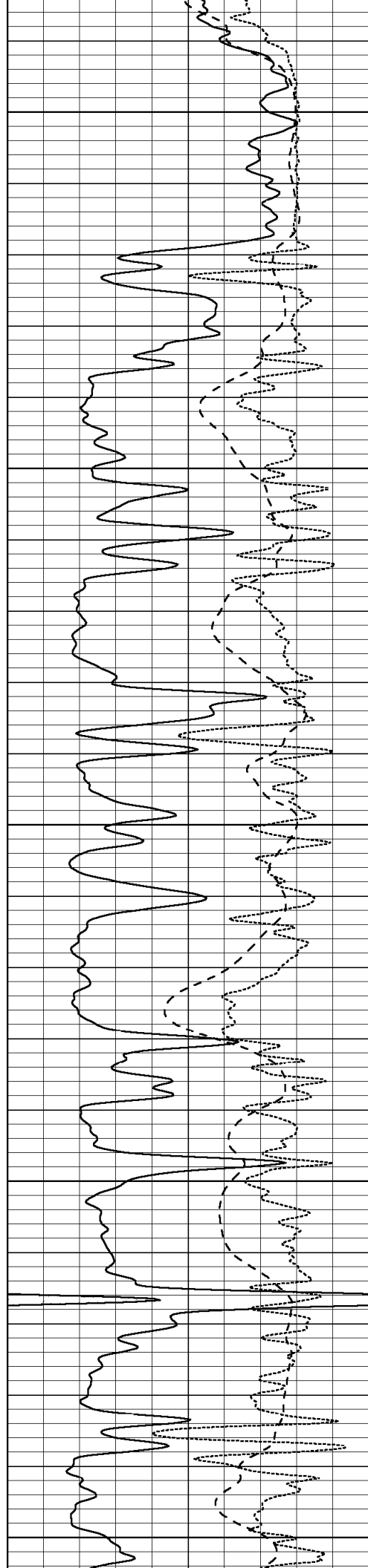
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2700

2750

2800





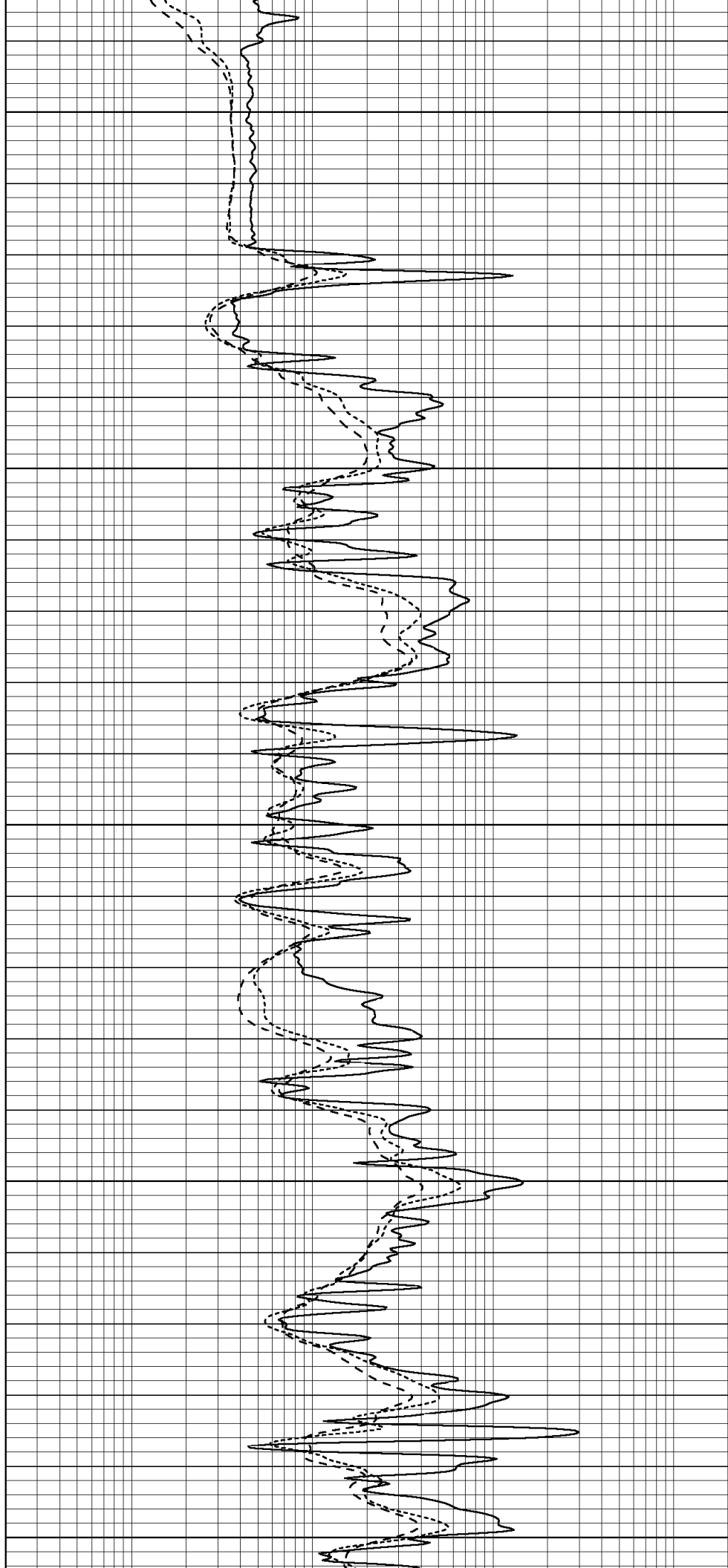
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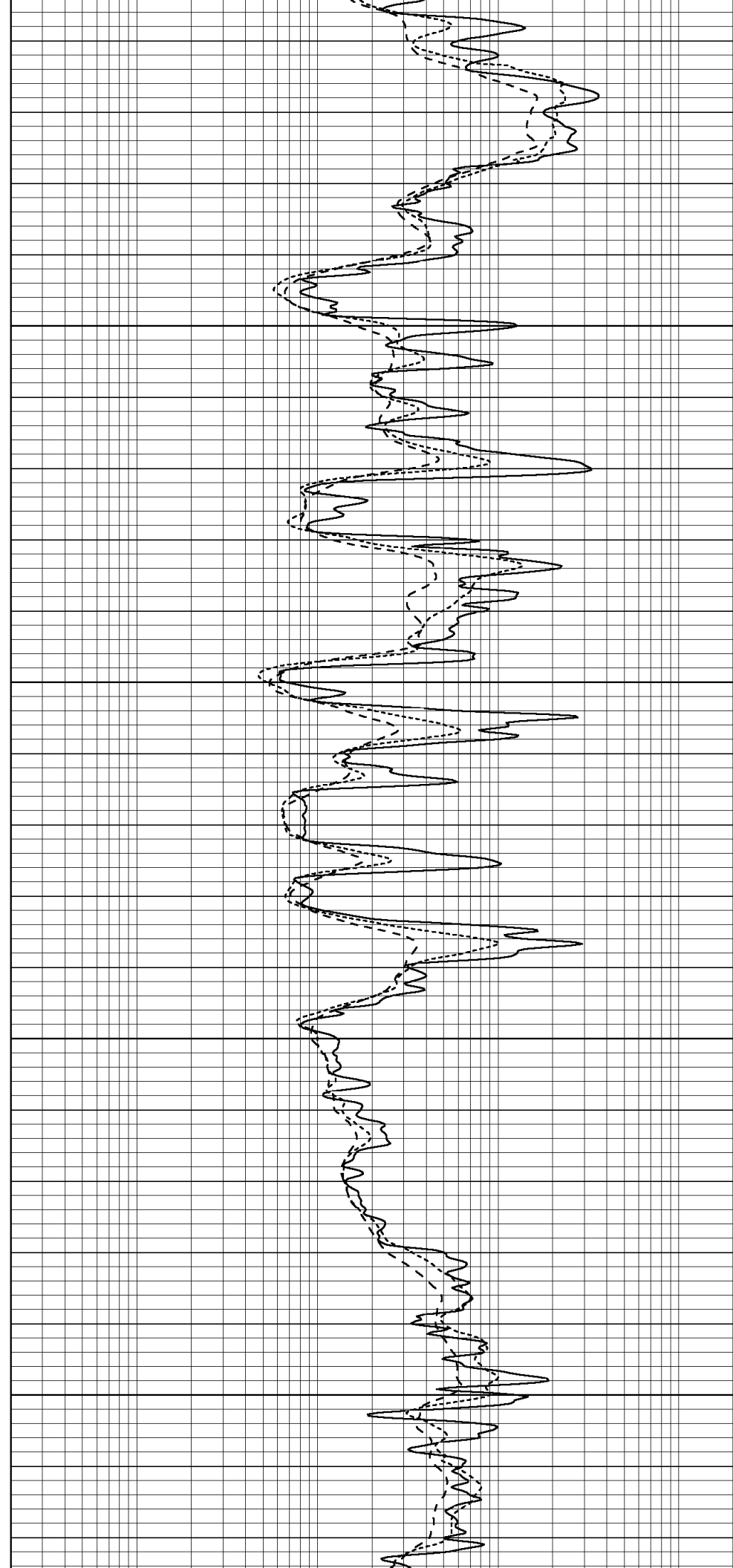
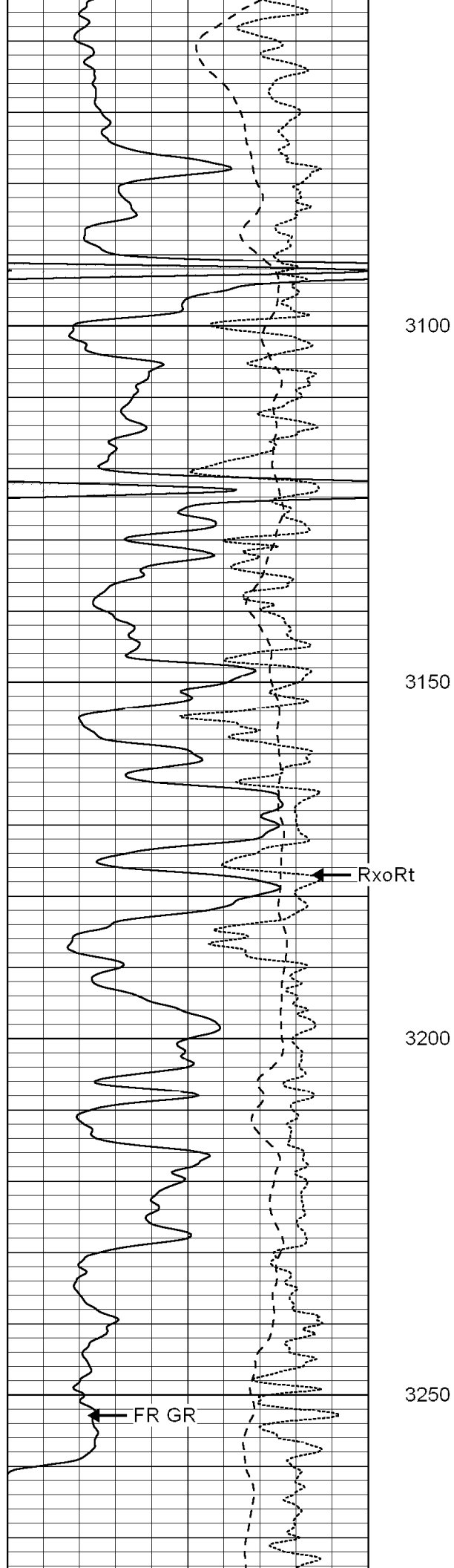
2900

2950

3000

3050





FR SP

--- TD ---

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

FR RILD

FR RILM

FR RLL3

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



SUPERIOR

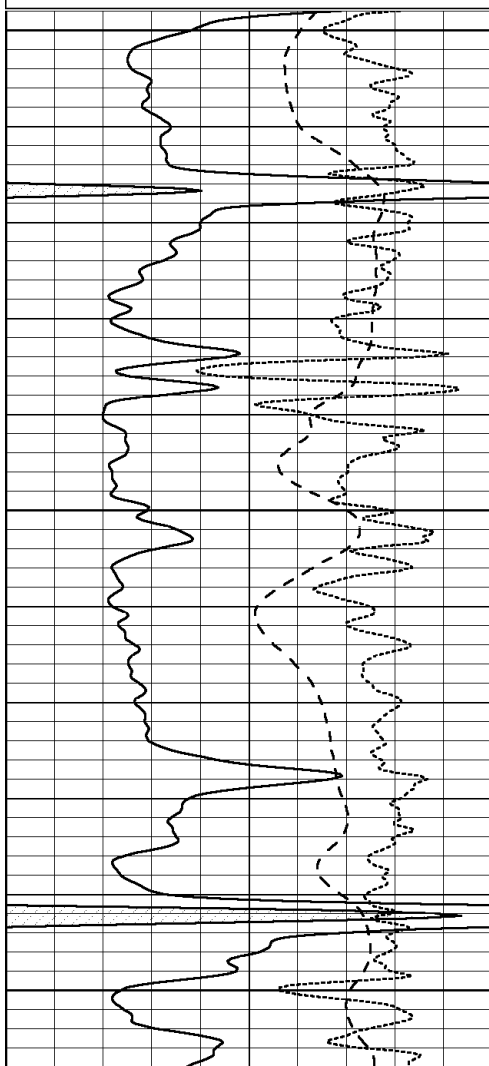
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REPEAT SECTION

Database File: 003246ddn.db
 Dataset Pathname: pass2.1A
 Presentation Format: dil
 Dataset Creation: Sat Apr 25 19:12:52 2009 by Calc Open-Cased 051020
 Charted by: Depth in Feet scaled 1:240

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

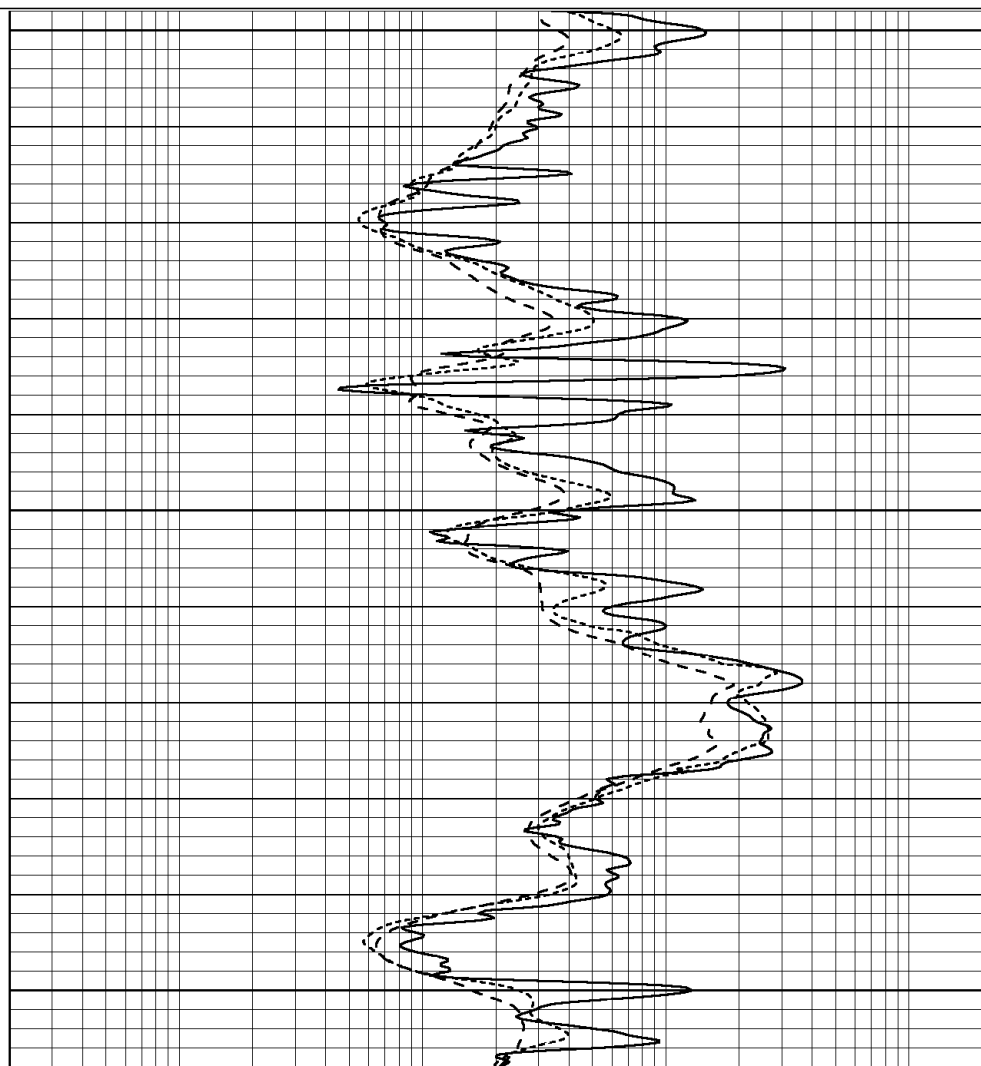
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

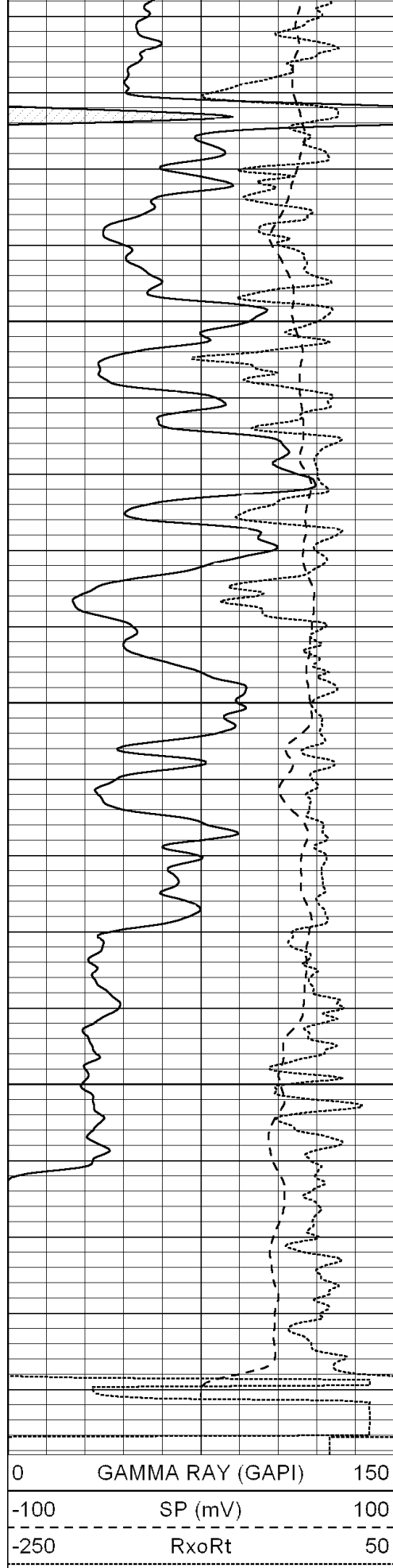


3000

3050

3100

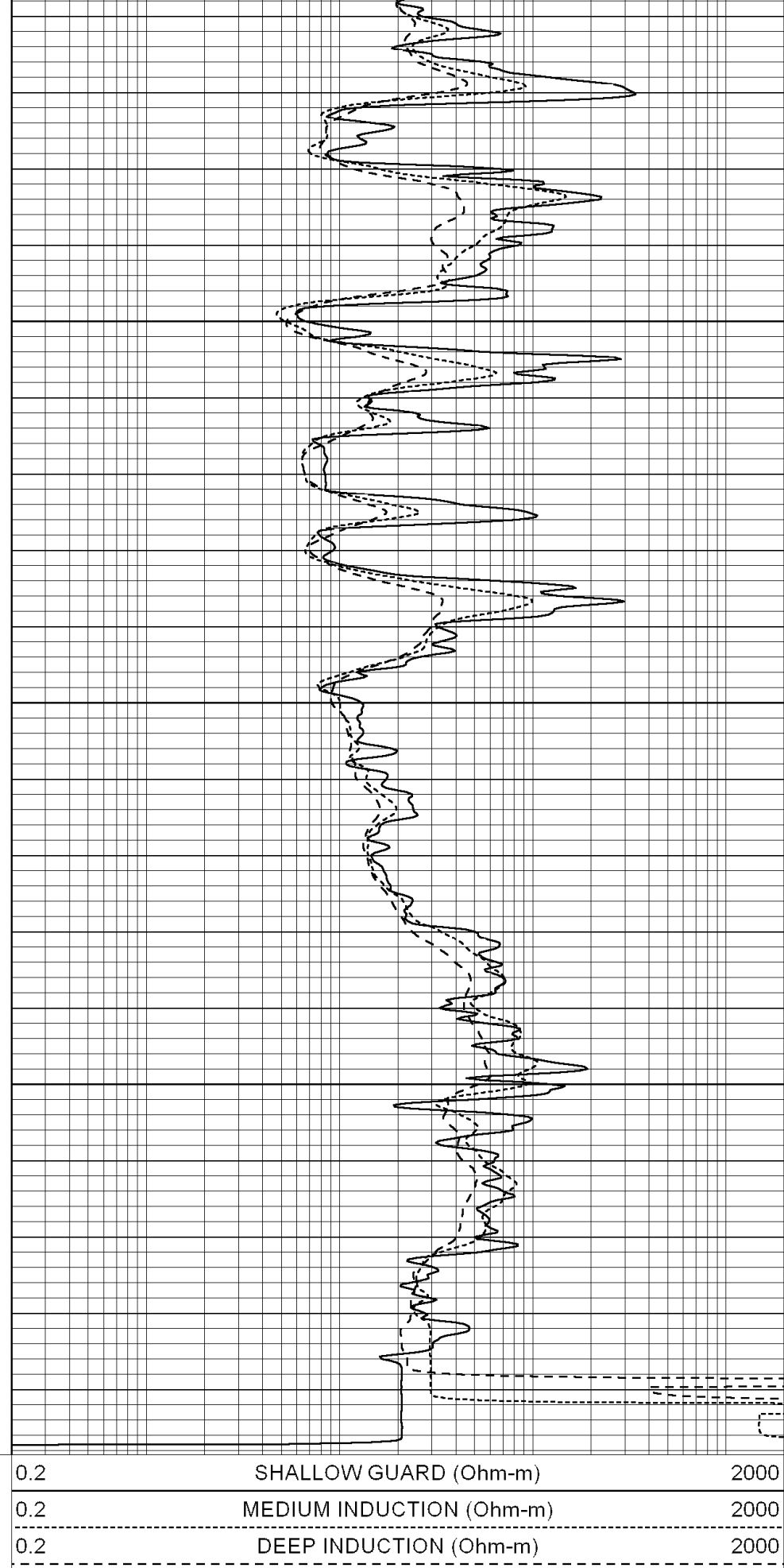




3150

3200

3250



Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Sat Apr 25 19:13:43 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	510.000	-7.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	500.000	-10.000
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: Sun Apr 19 10:40:51 2009

Master Calibration

	Density		Far Detector		Near Detector	
Magnesium	1.710	g/cc	1006.91		528.07	cps
Aluminum	2.600	g/cc	233.49		355.80	cps
Spine Angle = 74.88			Density/Spine Ratio = 0.588			
	Size		Reading			
Small Ring	6.80	in	2.87	V		
Large Ring	14.00	in	5.71	V		

Compensated Neutron Calibration Report

Serial Number: NEU_11
 Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
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: Sun Apr 19 10:19:31 2009

Calibrator Value: 1.0 GAPI
 Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps
 Sensitivity: 0.5000 GAPI/cps