



**COMPLETION
& PRODUCTION
SERVICES CO.**

**RADIATION
GUARD LOG**

Company	PICKRELL DRILLING COMPANY, INC.	Company	PICKRELL DRILLING COMPANY, INC.
Well	ROLF TRUST "A" #1	Well	ROLF TRUST "A" #1
Field	LITTLE BLUE NORTH	Field	LITTLE BLUE NORTH
County	NESS	County	NESS
State	KANSAS	State	KANSAS
Location:	API # : 15-135-25667 450' FSL & 330' FEL	Other Services	
SEC 30 TWP 16S RGE 26W			
Permanent Datum Log Measured From Drilling Measured From	GROUND LEVEL KELLY BUSHING 10' A.G.L. KELLY BUSHING	Elevation K.B. 2669 D.F. 2667 G.L. 2659	
Date	9-29-13		
Run Number	ONE		
Depth Driller	4610		
Depth Logger	4610		
Bottom Logged Interval	4609		
Top Log Interval	00		
Casing Driller	263		
Casing Logger	262		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.0 / 57		
pH / Fluid Loss	10.0 / 5.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.50 @ 67F		
Rmf @ Meas. Temp	1.13 @ 67F		
Rmc @ Meas. Temp	1.80 @ 67F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.830 @ 121F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	10:00 A.M.		
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	JERRY SMITH		

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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 SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: UTICA, 3W TO QUINTER RD., 1S, W INTO.

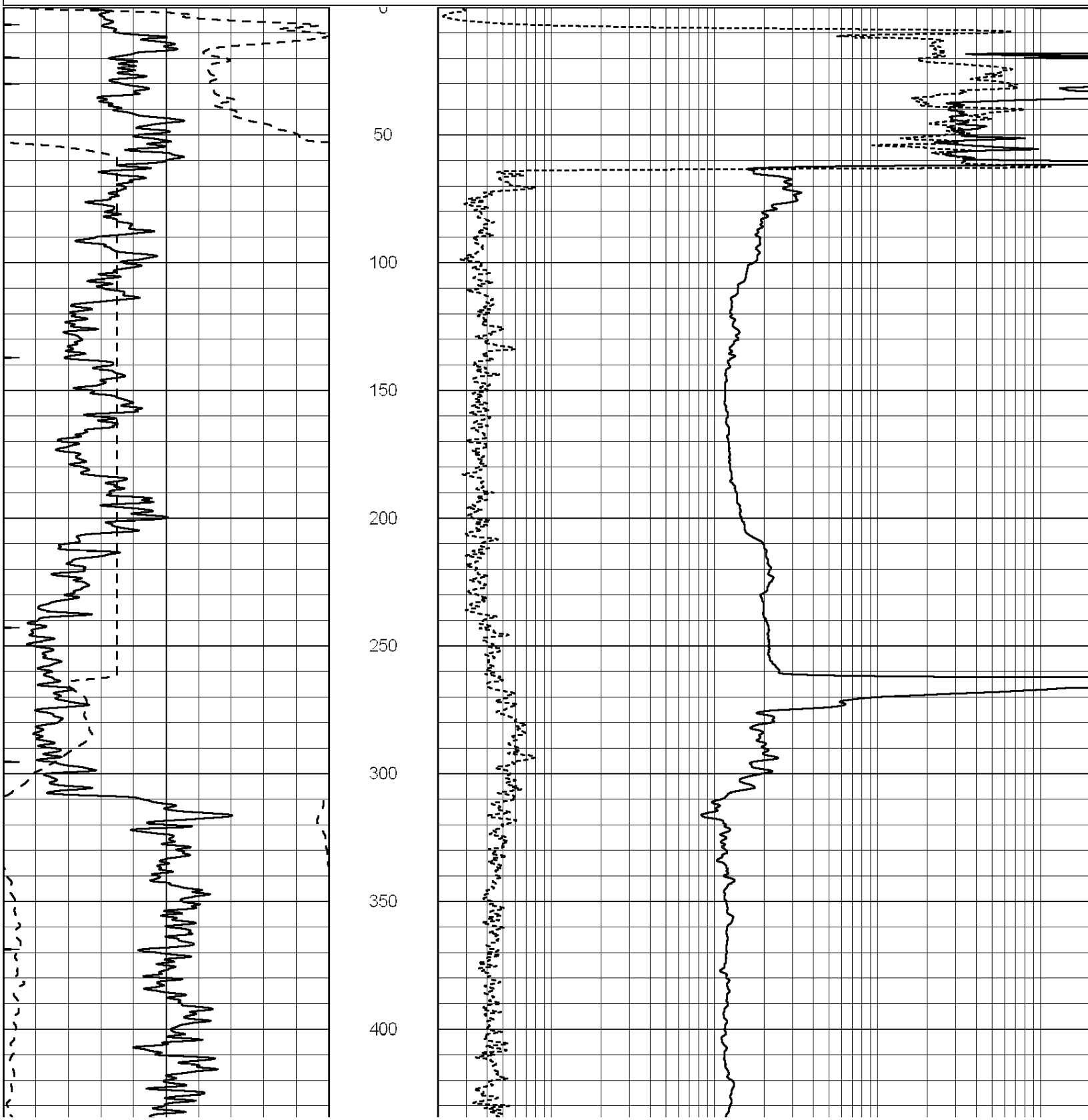


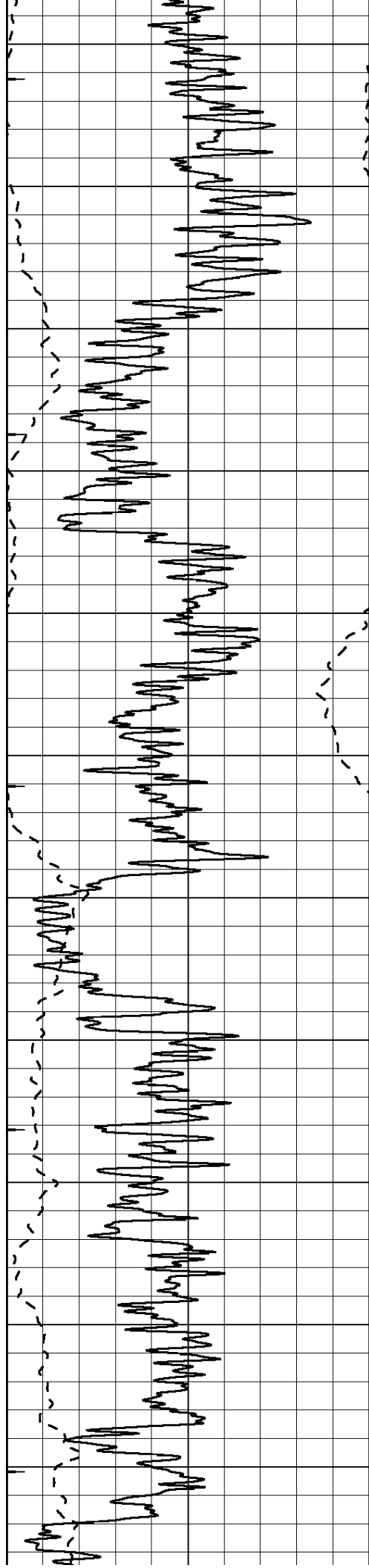
**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File: 010208rag.db
 Dataset Pathname: pass3.2
 Presentation Format: rag2
 Dataset Creation: Sun Sep 29 11:28:34 2013
 Charted by: Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150	ABHV (ft3)	0.2	GUARD (Ohm-m)	2000
-100	SP (mV)	100		0	NEUTRON (NAPI)	1000
			TBHV (ft3)			





450

500

550

600

650

700

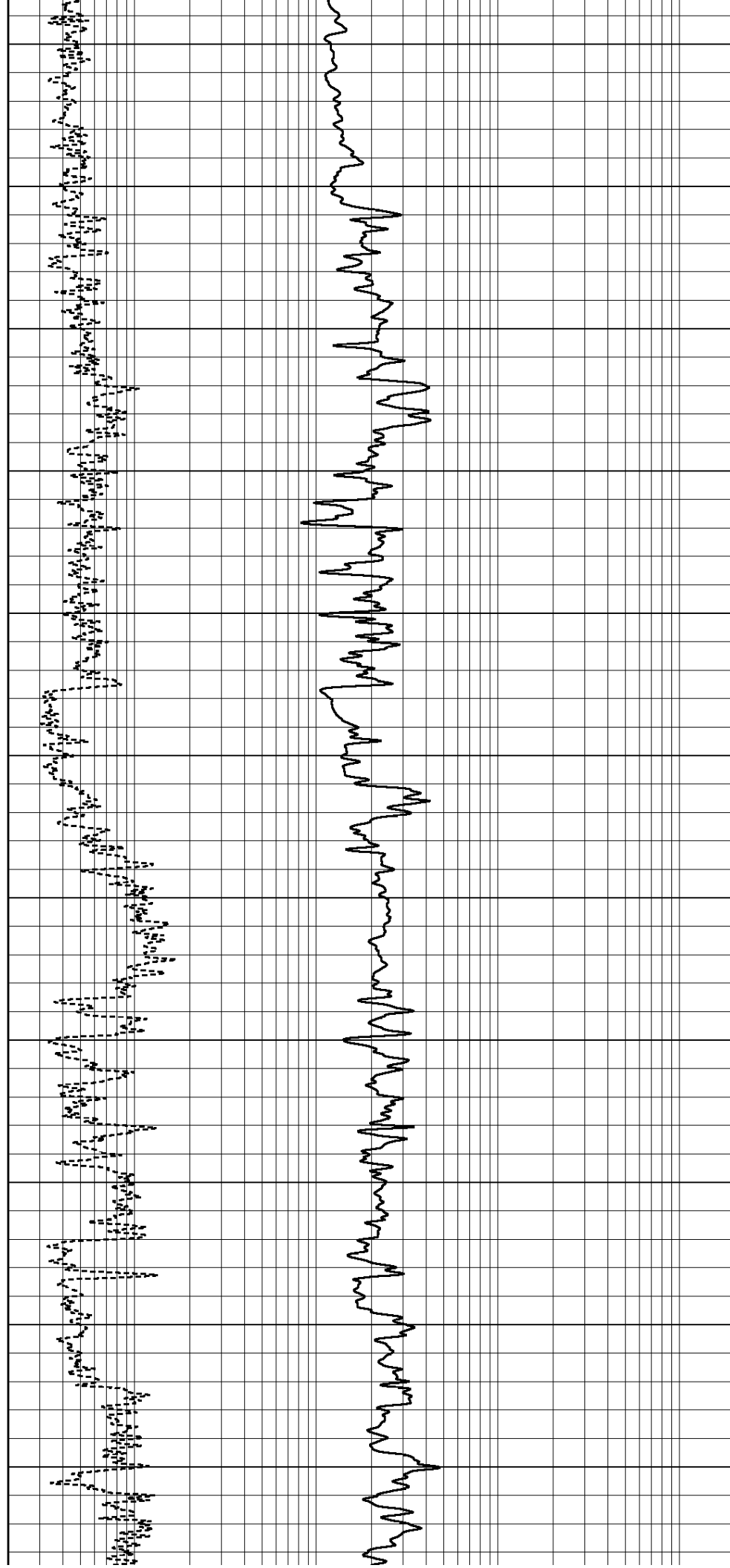
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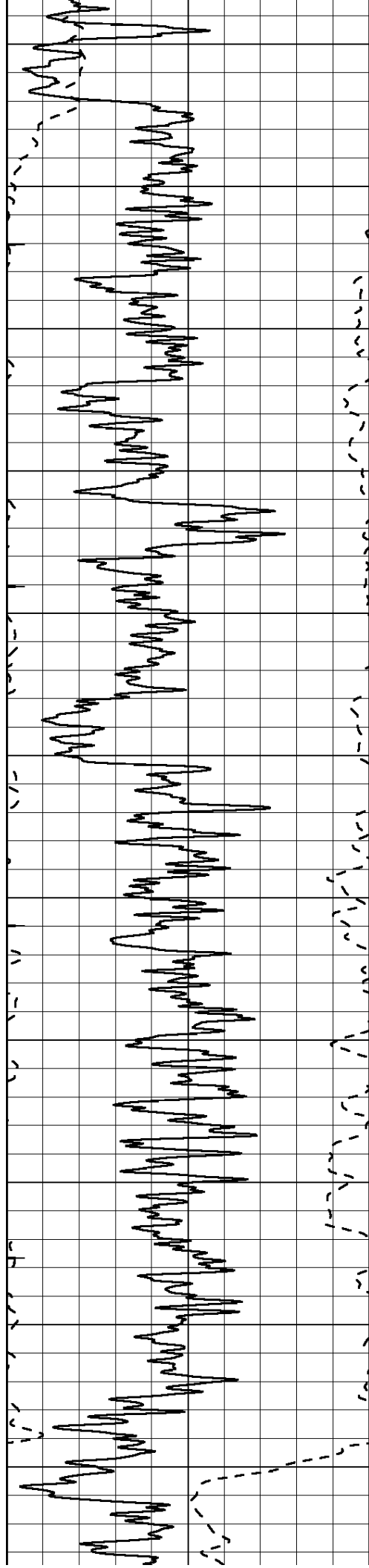
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850

900

950





1000

1050

1100

1150

1200

1250

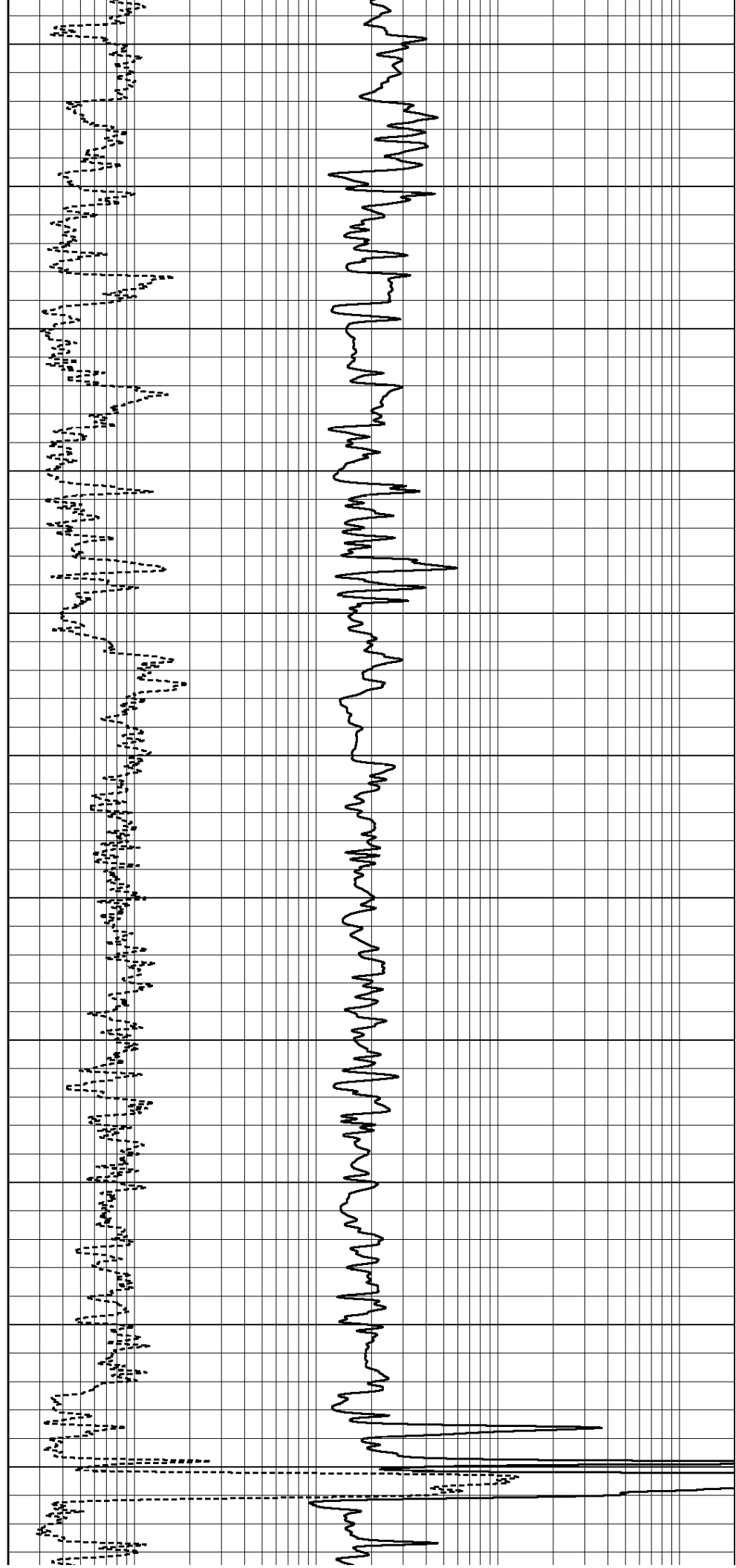
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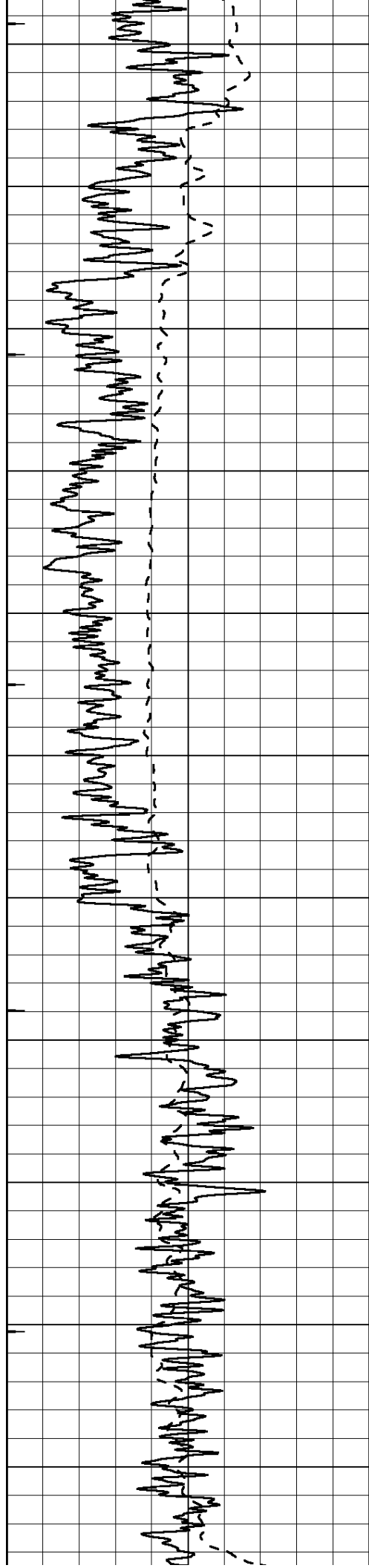
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1400

1450

1500





1550

1600

1650

1700

1750

1800

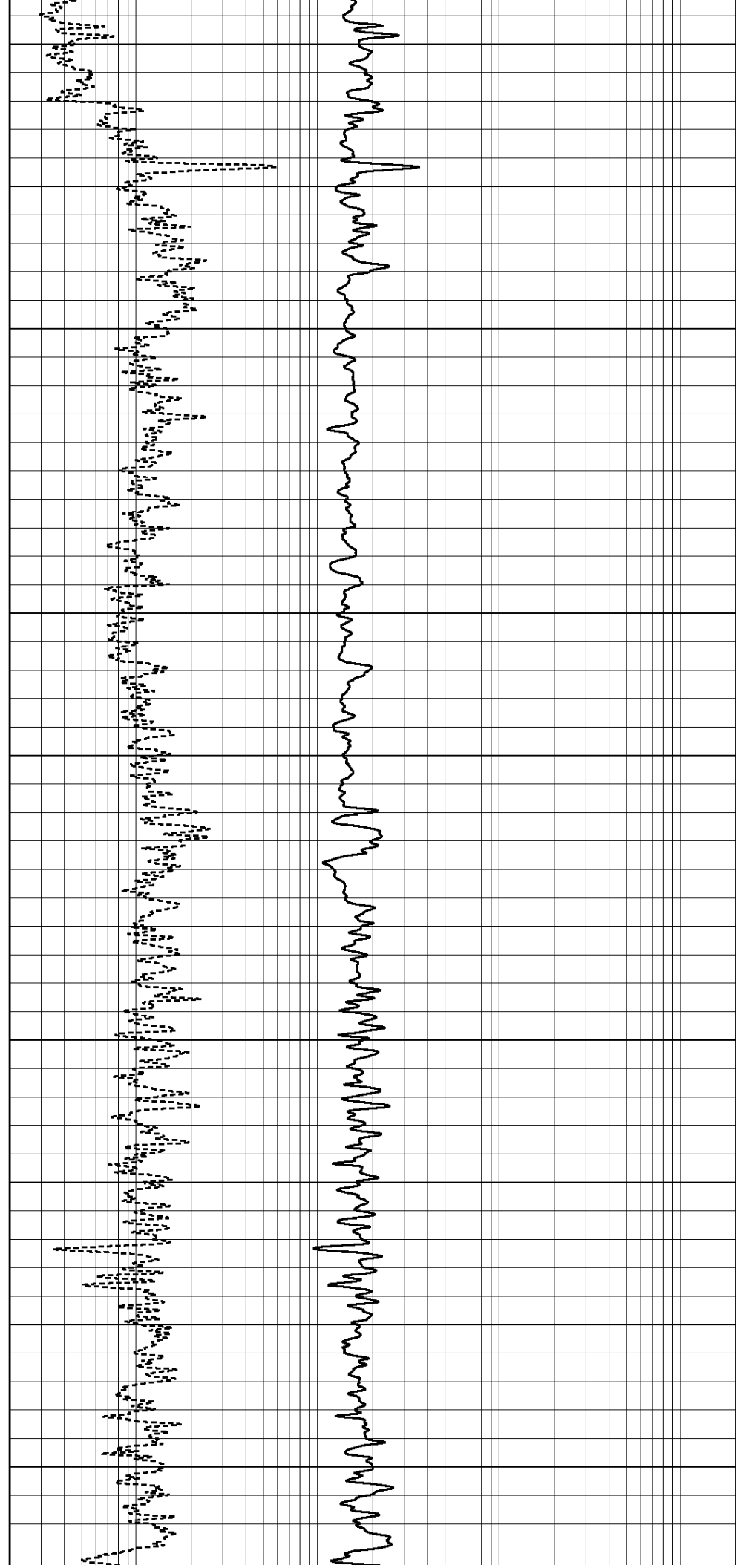
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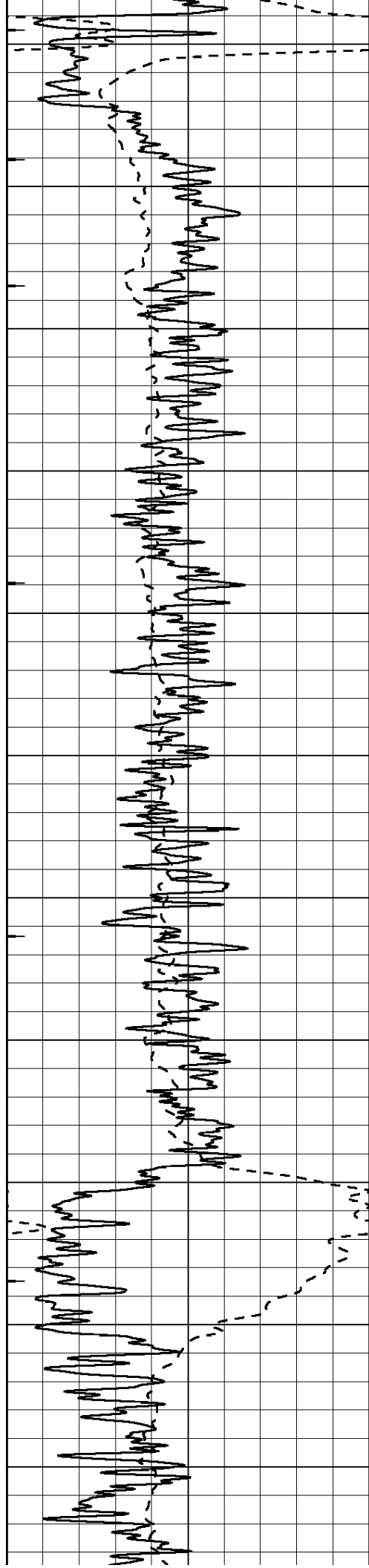
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1950

2000

2050





2100

2150

2200

2250

2300

2350

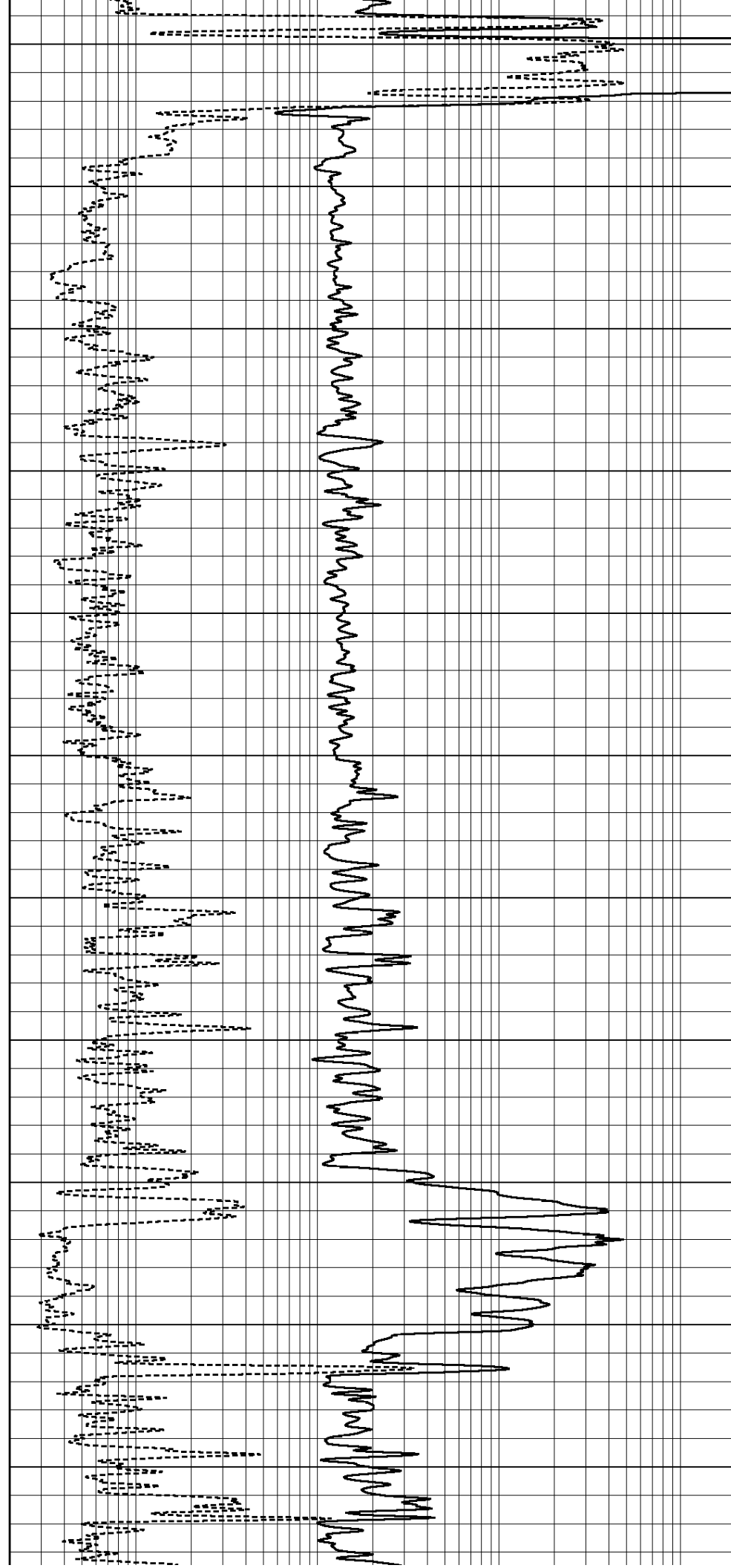
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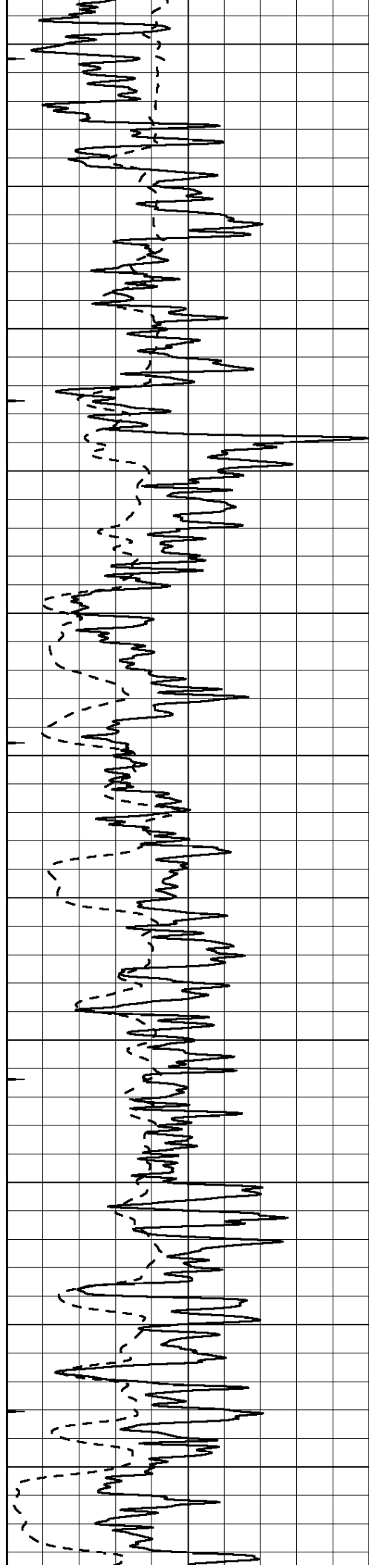
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2500

2550

2600





2650

2700

2750

2800

2850

2900

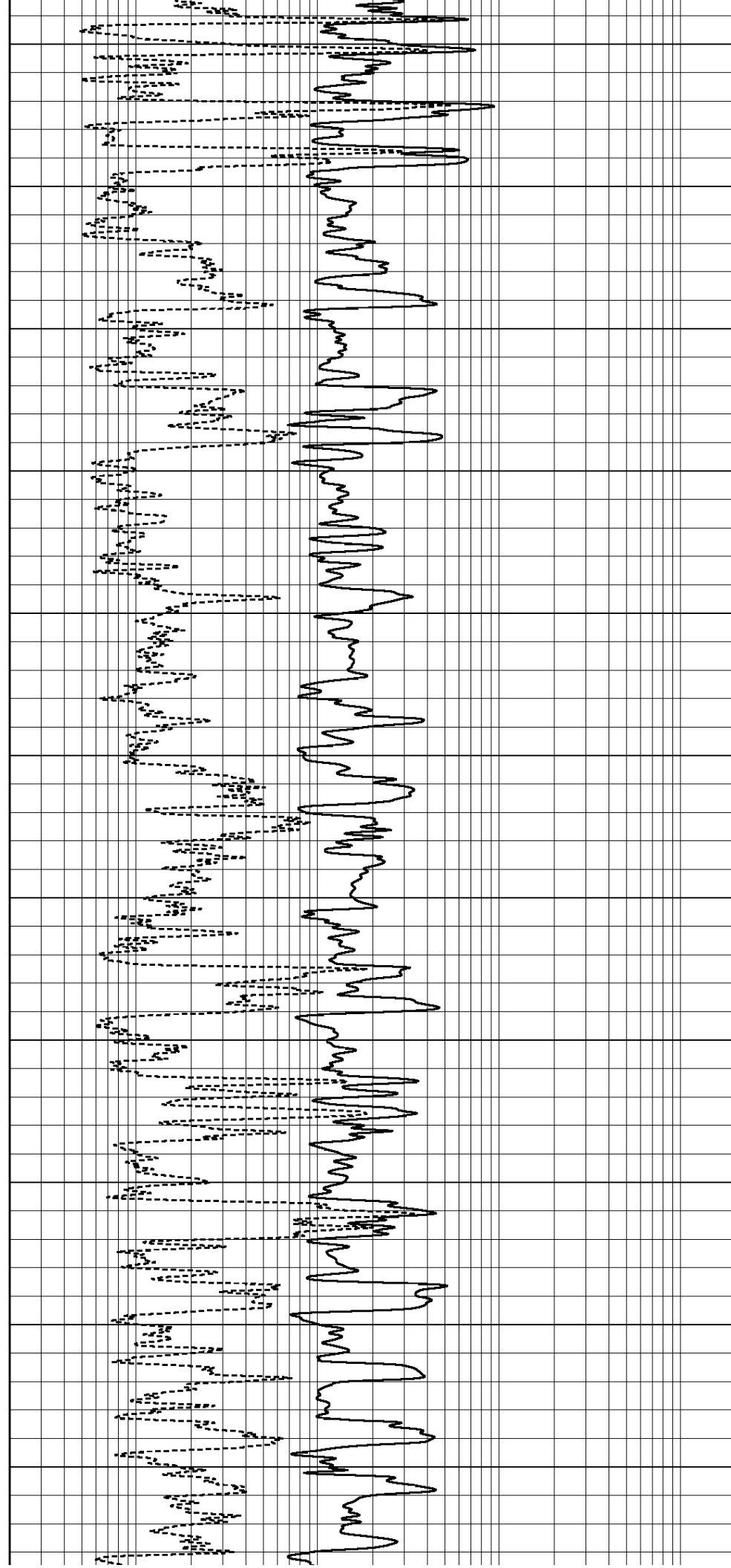
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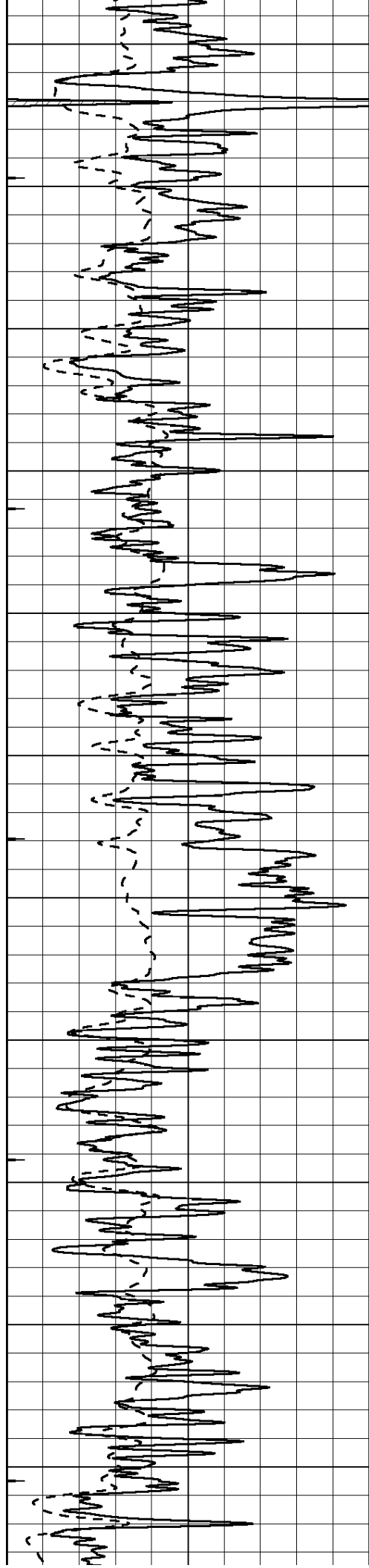
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3050

3100

3150





3200

3250

3300

3350

3400

3450

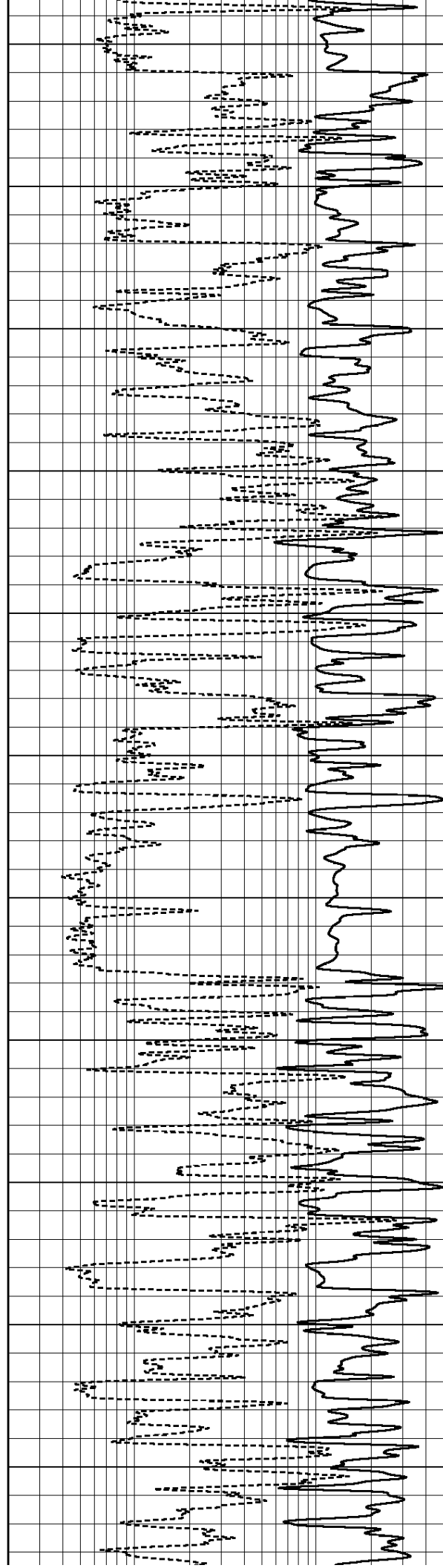
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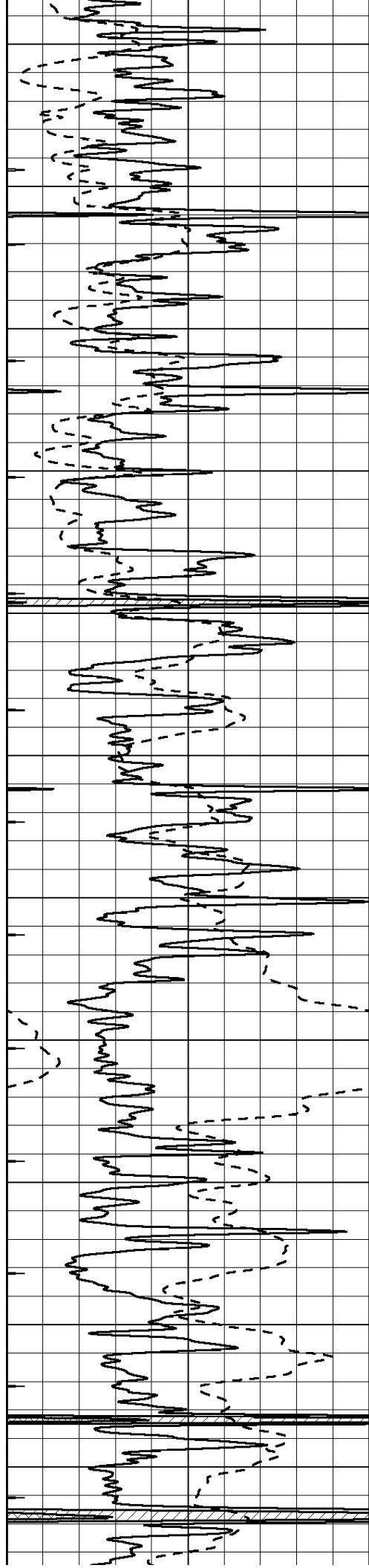
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3600

3650

3700





3750

3800

3850

3900

3950

4000

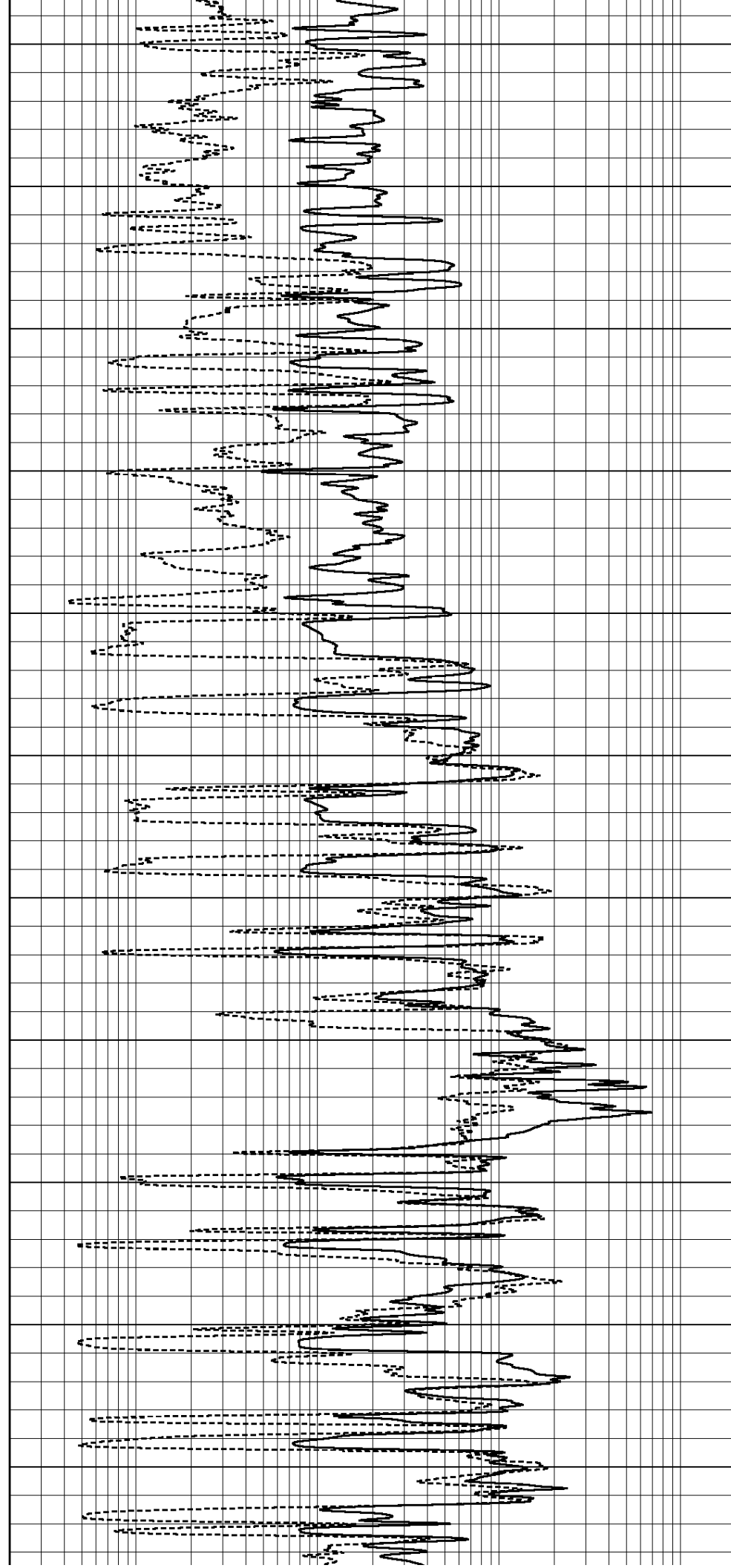
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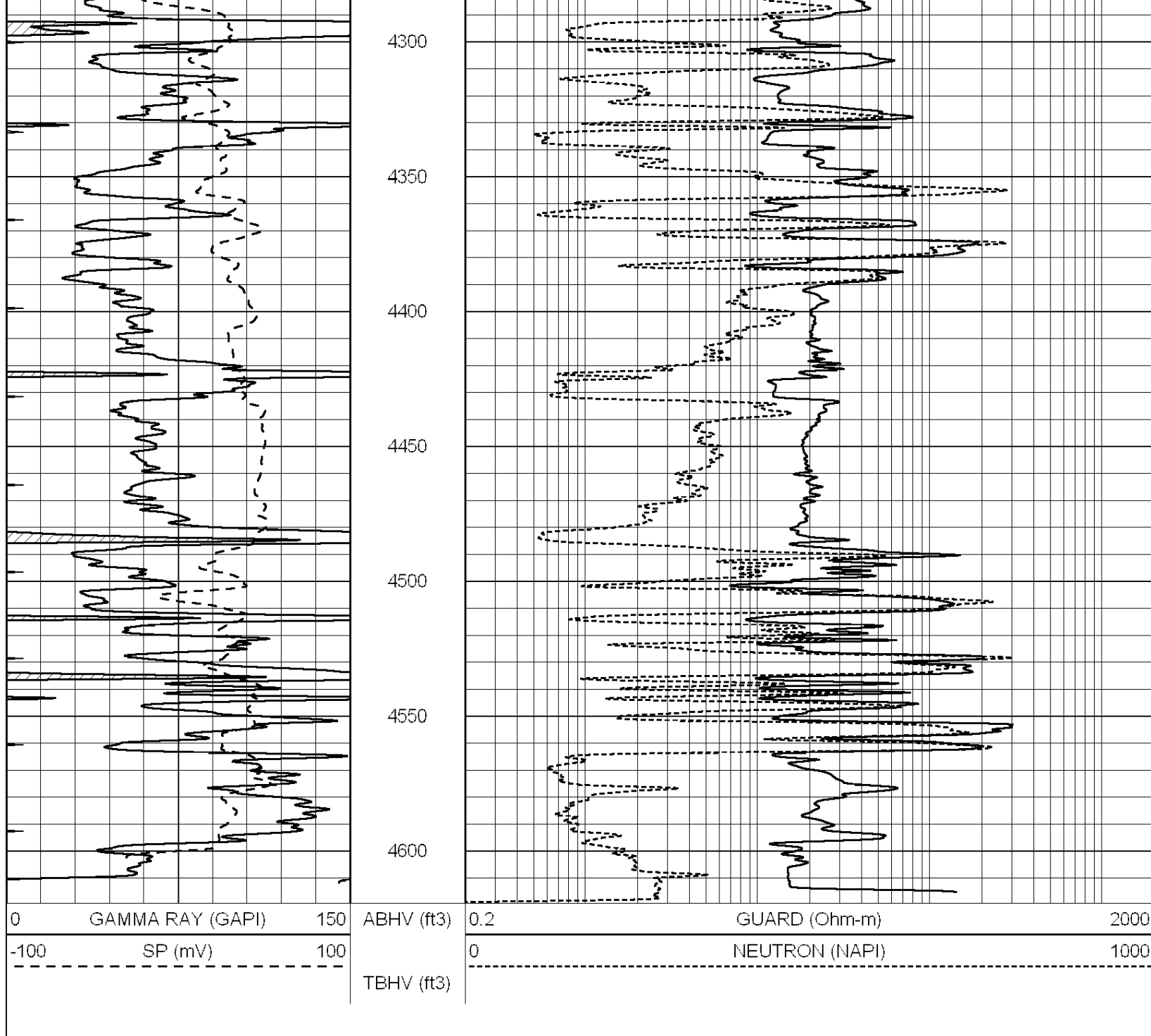
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4150

4200

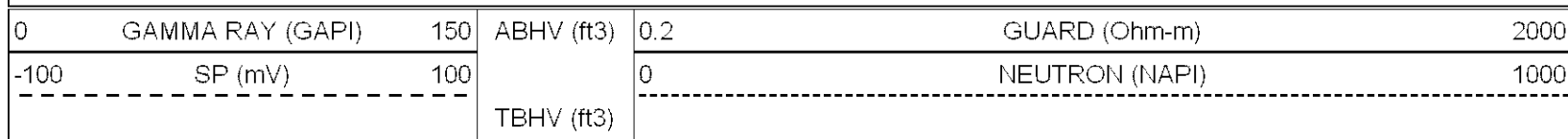
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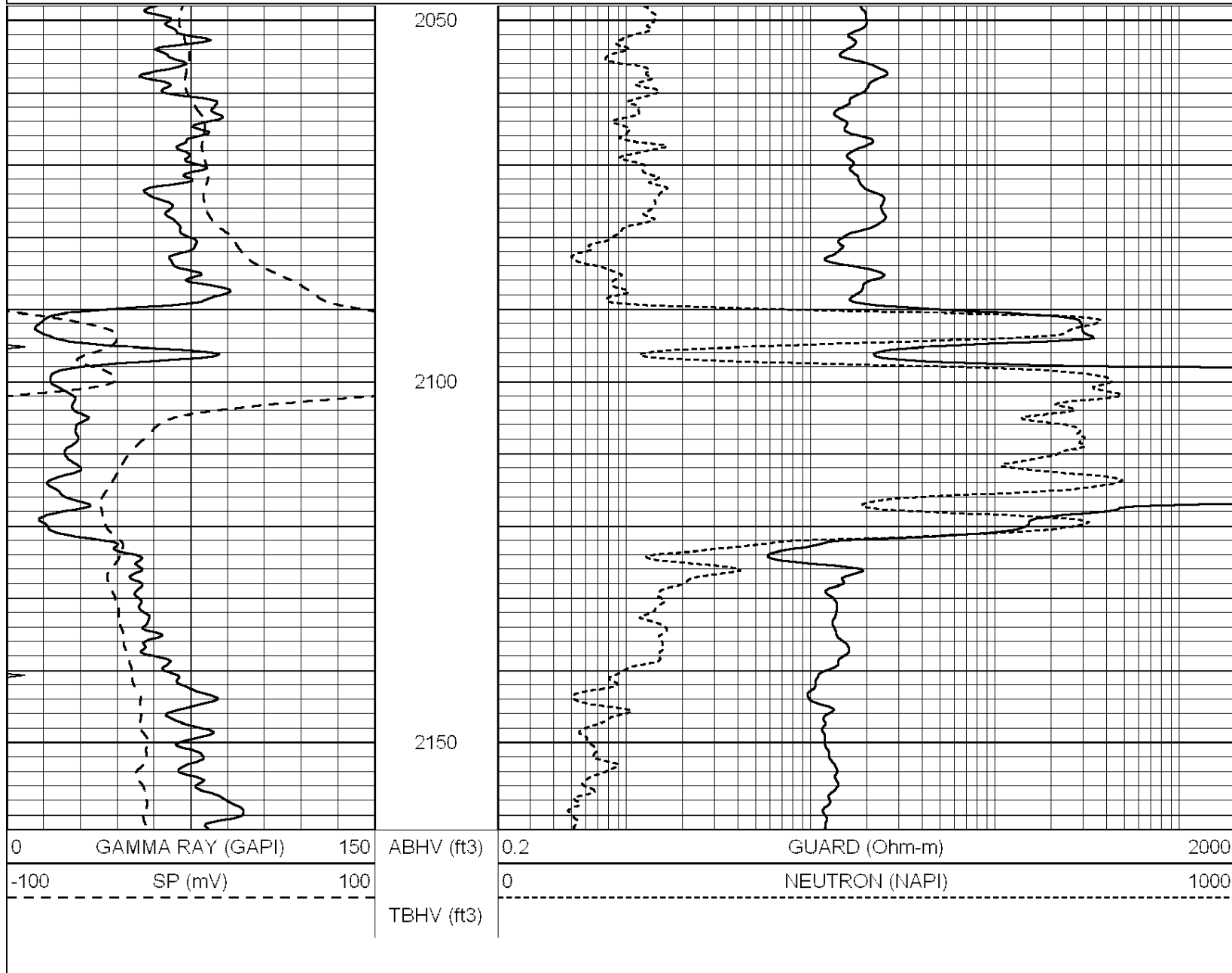




MAIN SECTION

Database File: 010208rag.db
 Dataset Pathname: pass3.2
 Presentation Format: rag2
 Dataset Creation: Sun Sep 29 11:28:34 2013
 Charted by: Depth in Feet scaled 1:240

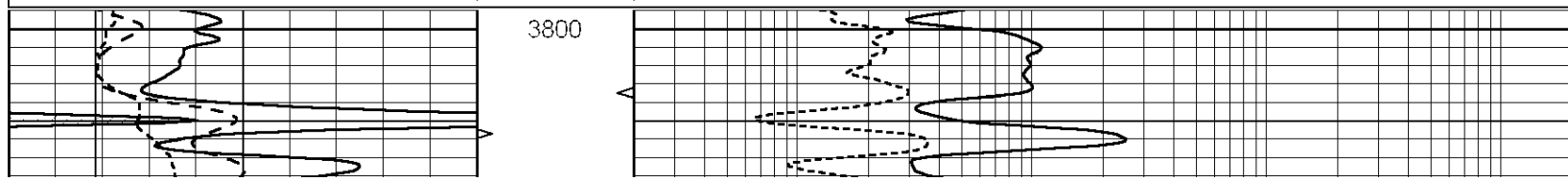


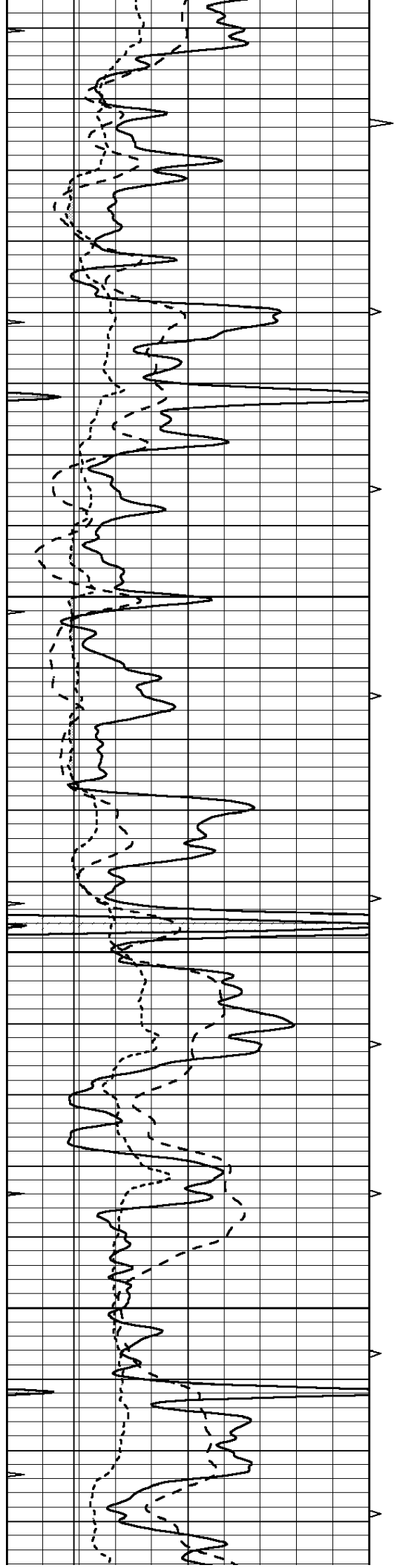


MAIN SECTION

Database File: 010208rag.db
 Dataset Pathname: pass3.2
 Presentation Format: _rag
 Dataset Creation: Sun Sep 29 11:28:34 2013
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0.8	GUARD (Ohm-m)	2000
-100	SP (mV)	100	10 (ft3)	0	NEUTRON (NAPI)	1000
6	CALIPER (in)	16	TBHV			
			0 (ft3)	10		



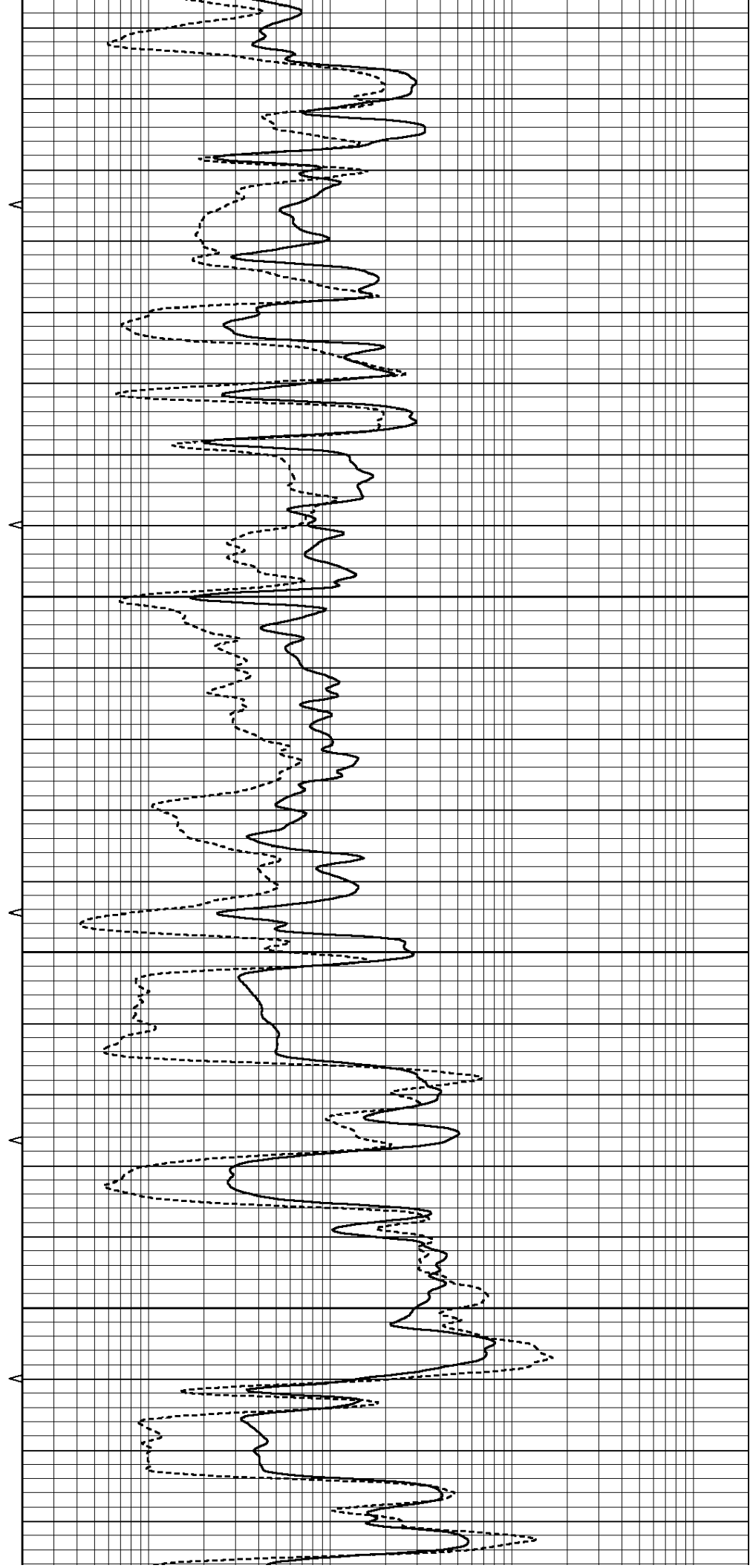


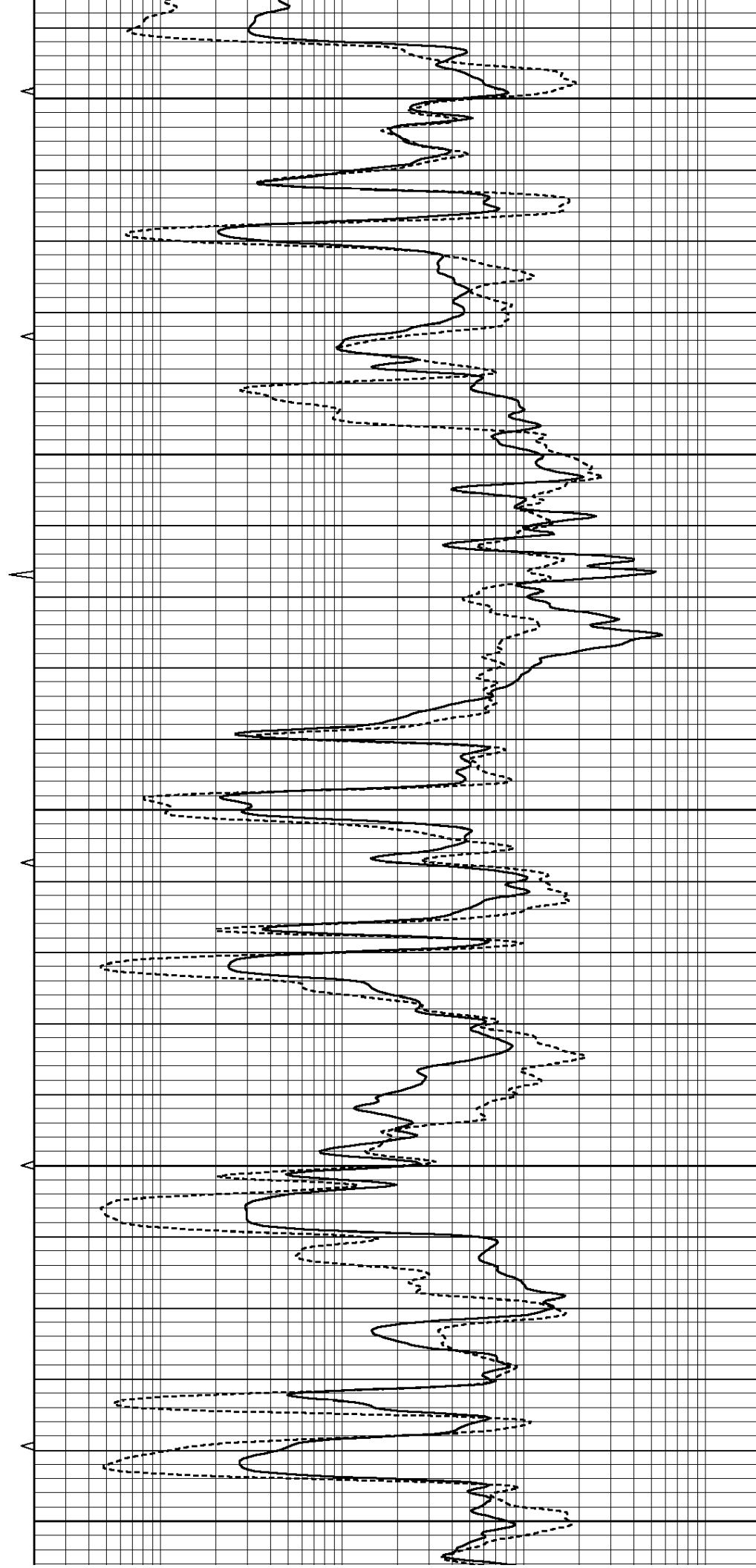
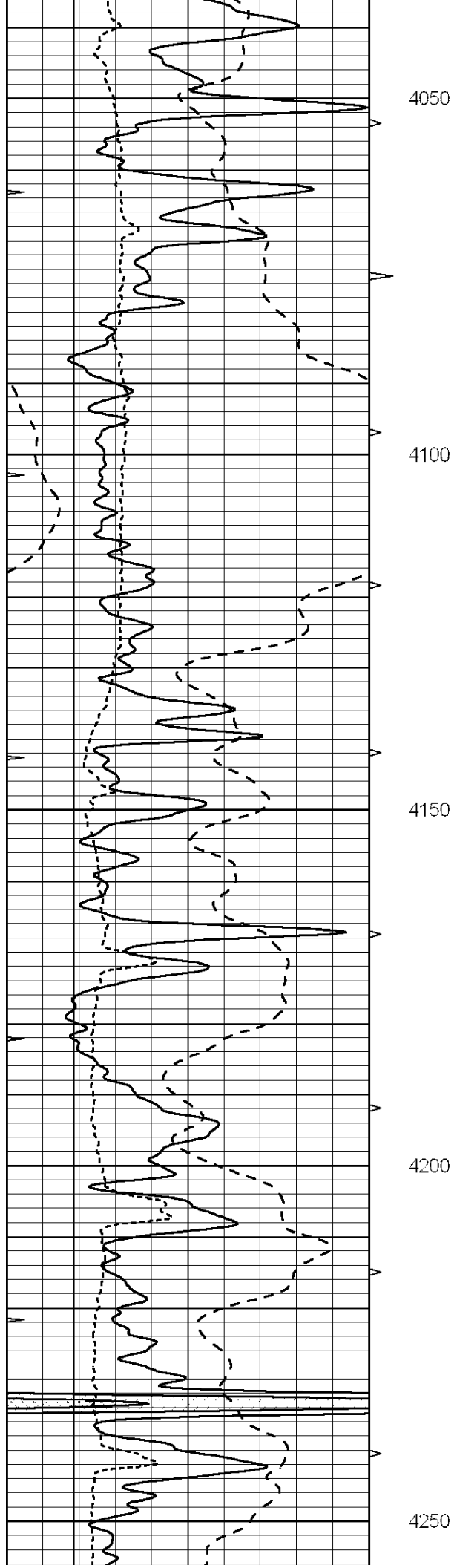
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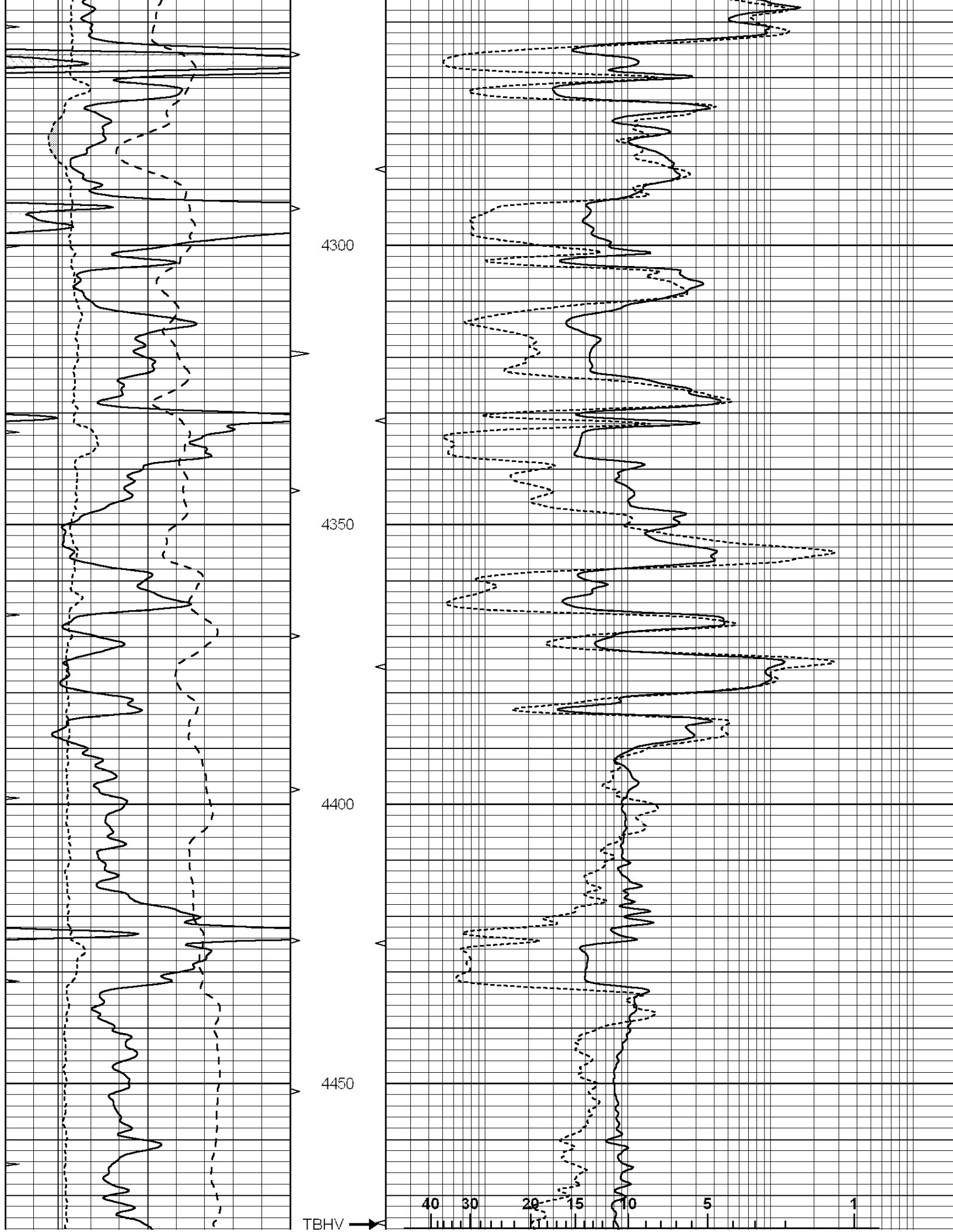
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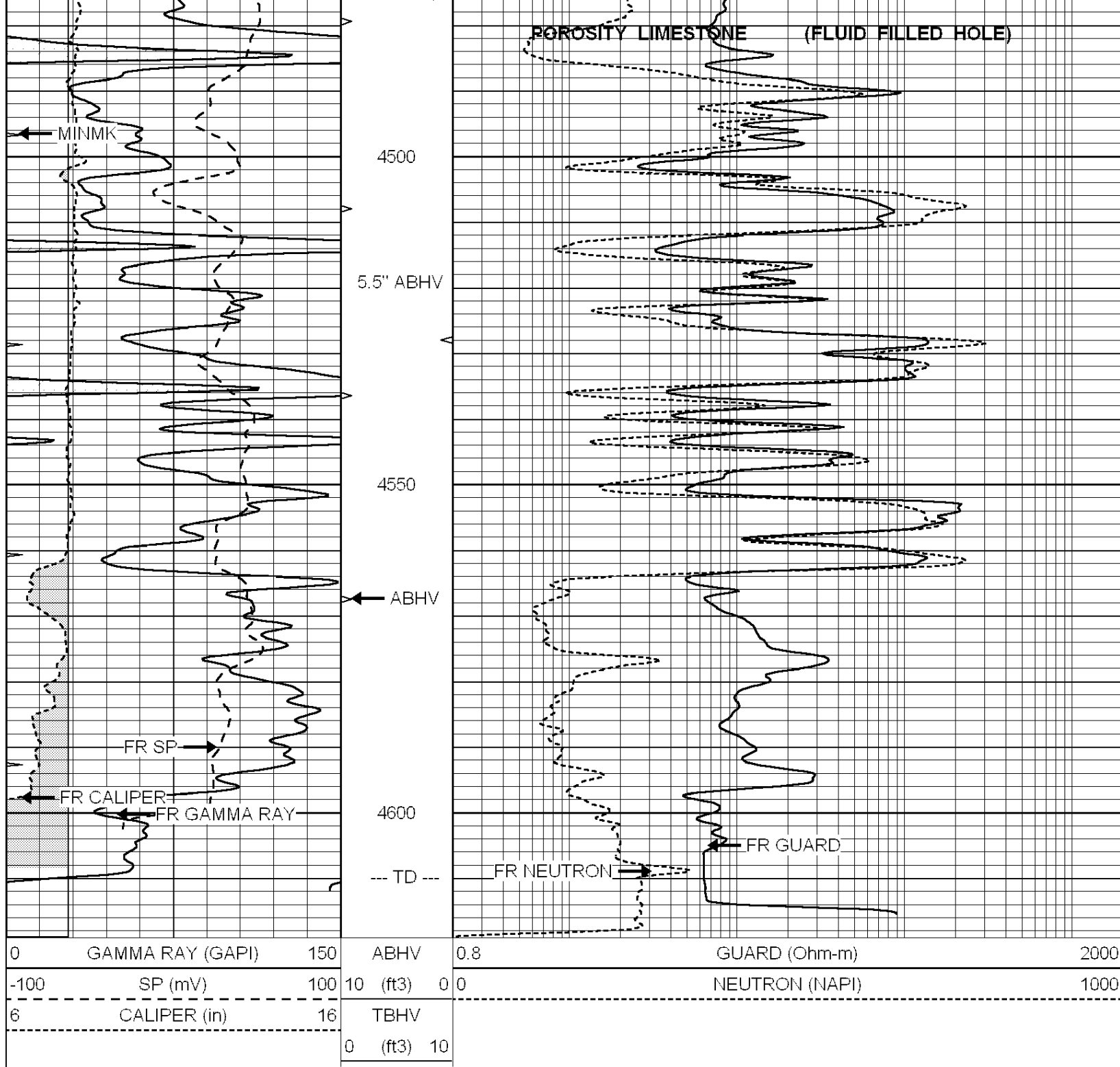
3950

4000











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REPEAT SECTION

Database File: 010208rag.db
 Dataset Pathname: pass2.A
 Presentation Format: _rag
 Dataset Creation: Sun Sep 29 10:54:50 2013 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0.8	GUARD (Ohm-m)	2000
-100	SP (mV)	100	10 (ft3)	0 0	NEUTRON (NAPI)	1000
6	CALIPER (in)	16	TBHV			
			0 (ft3)	10		

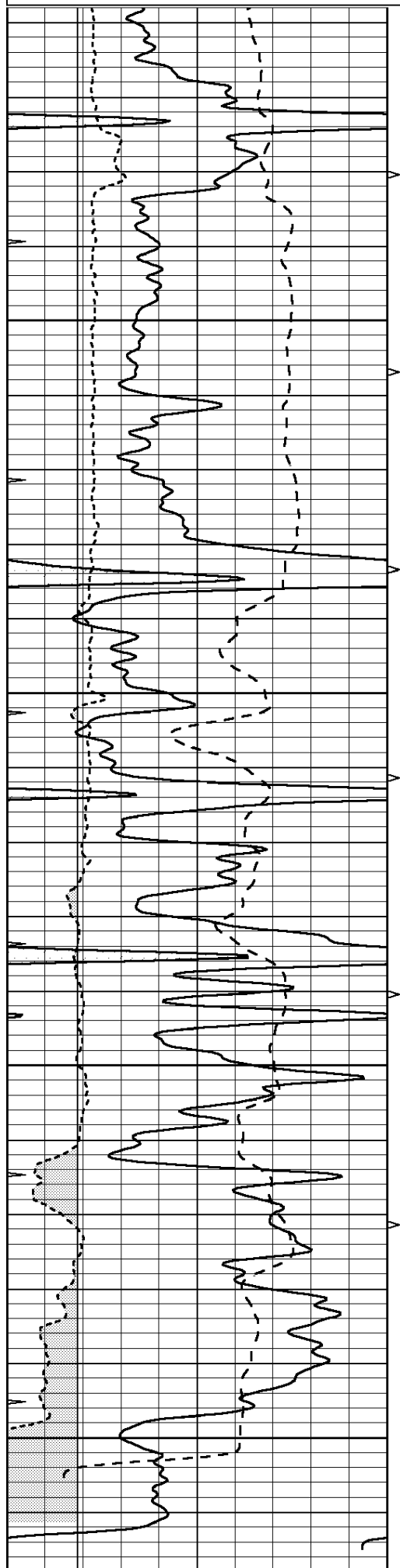
6

CALIPER (in)

16

TBHV

0 (ft3) 10

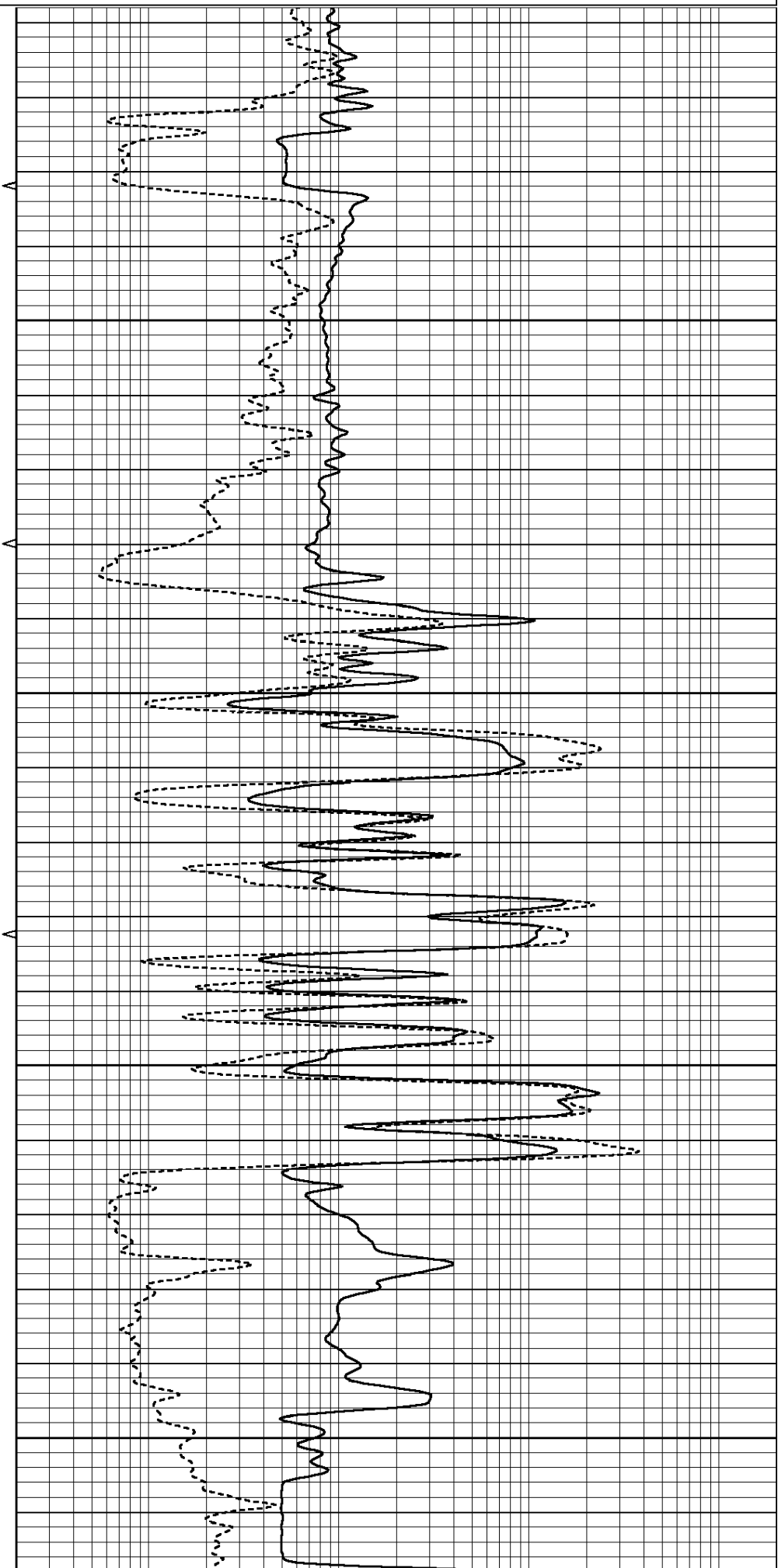


4450

4500

4550

4600



0	GAMMA RAY (GAPI)	150	ABHV	0.8	GUARD (Ohm-m)	2000
-100	SP (mV)	100	10 (ft3) 0	0	NEUTRON (NAPI)	1000
6	CALIPER (in)	16	TBHV			
			0 (ft3) 10			

Calibration Report

Database File: 010208rag.db
Dataset Pathname: pass3.2
Dataset Creation: Sun Sep 29 11:28:34 2013

Neutron Calibration Report

Serial Number: RAG1
Tool Model: RAG
Performed: Sun Sep 29 10:53:35 2013

Calibrator Values: 0 1 NAPI
Calibrator Readings: 0 1 cps

Sensitivity: 0.76 NAPI/cps

Micro Spherically Focused Log Calibration Report

Serial-Model: RAG1-A
Performed: Sun Sep 29 10:53:21 2013

	Readings			References			Results	
	Low	High		Low	High		m	b
Conductivity	0.0110	0.9000	V	10.0000	1000.0000	mmho	1100.0000	7.0000
Caliper	0.2723	0.3535	V	7.8000	14.0000	in	76.3942	-13.0000

Gamma Ray Calibration Report

Serial Number: RAG1
Tool Model: RAG
Performed: Sun Sep 29 10:52:53 2013

Calibrator Value: 1.0 GAPI

Background Reading: 0.9 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.7500 GAPI/cps