



**Casedhole
Solutions**

**SONIC
LOG**

Company BLACK RAVEN ENERGY/ENERJEX RESOURCES
Well LAST WOMAN STANDING #943-15-24-D
Field WILDCAT
County SEDGWICK
State COLORADO

Company BLACK RAVEN ENERGY/ENERJEX RESOURCES
Well LAST WOMAN STANDING #943-15-24-D
Field WILDCAT
County SEDGWICK State COLORADO

Location: API # : 05-115-06111-00-00
600' FSL & 1575' FWL

Other Services
CDL/CNL/PE
DIL/MEL

SEC 15 TWP 9N RGE 43W

Permanent Datum GROUND LEVEL Elevation 3642
Log Measured From KELLY BUSHING 12' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 3654
D.F. 3652
G.L. 3642

Date 11/6/15

Run Number TWO

Depth Driller 5726

Depth Logger 5729

Bottom Logged Interval 5714

Top Log Interval 550

Casing Driller 8 5/8" @ 601'

Casing Logger 600

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2/69

pH / Fluid Loss 11.5/6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp .50 @ 55F

Rmt @ Meas. Temp .37 @ 55F

Rmc @ Meas. Temp .60 @ 55F

Source of Rmt / Rmc MEASUREMENT

Rm @ BHT .20 @ 132F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 132F

Maximum Recorded Temperature 132F

Equipment Number 4010

Location HAYS, KANSAS

Recorded By JASON CAPPELLUCCI

Witnessed By PAUL GUNZELMAN

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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 CASEDHOLE SOLUTIONS, HAYS, KS. (785) 628-6395
DIRECTIONS:
HOLYOKE, CO. - NORTH SIDE OF TOWN TO HWY 23 - 12 MILES NORTHEAST
TO RD. 55 - 3 NORTH TO RD. 44 - 1/2 EAST - NORTH INTO

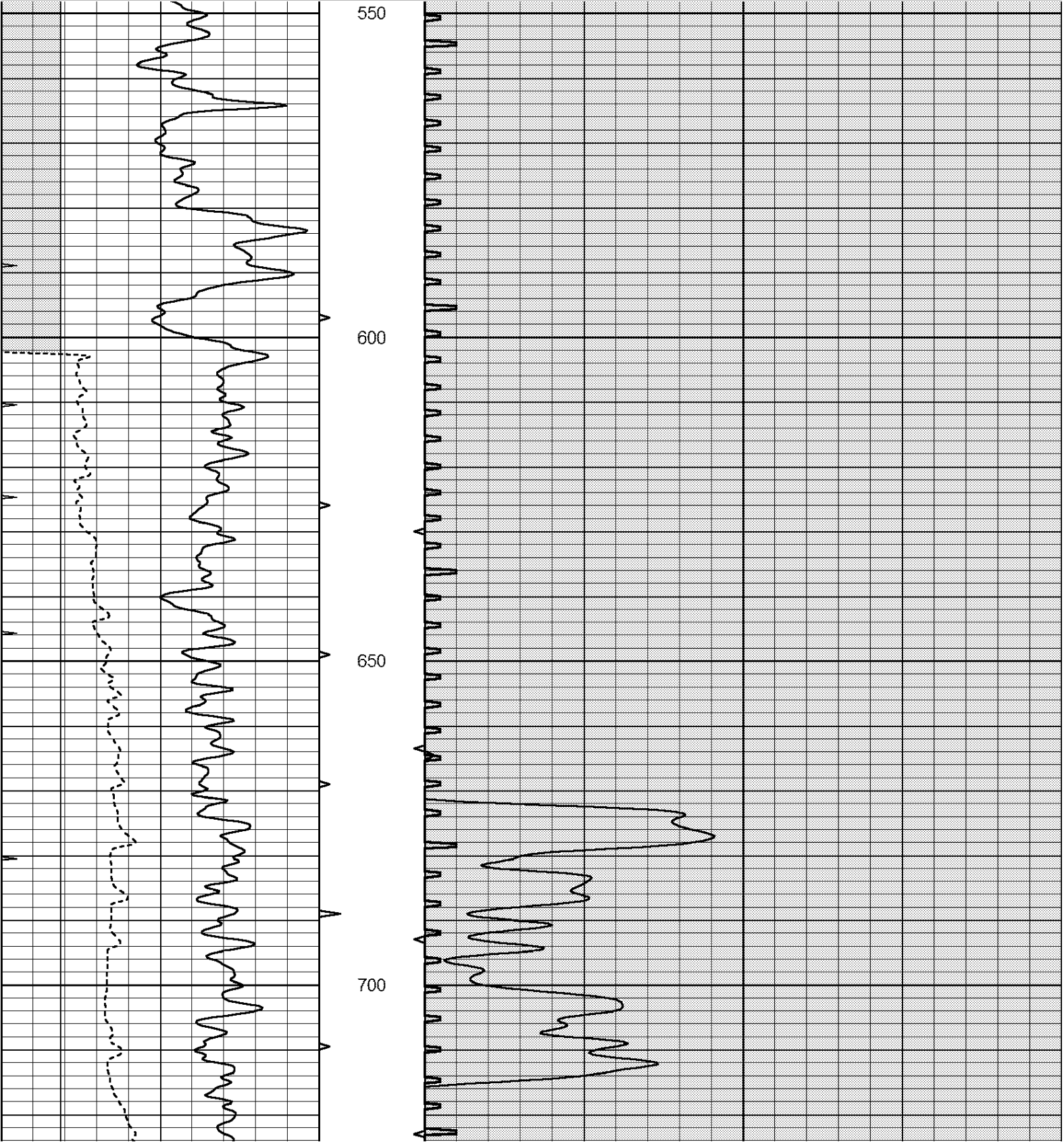


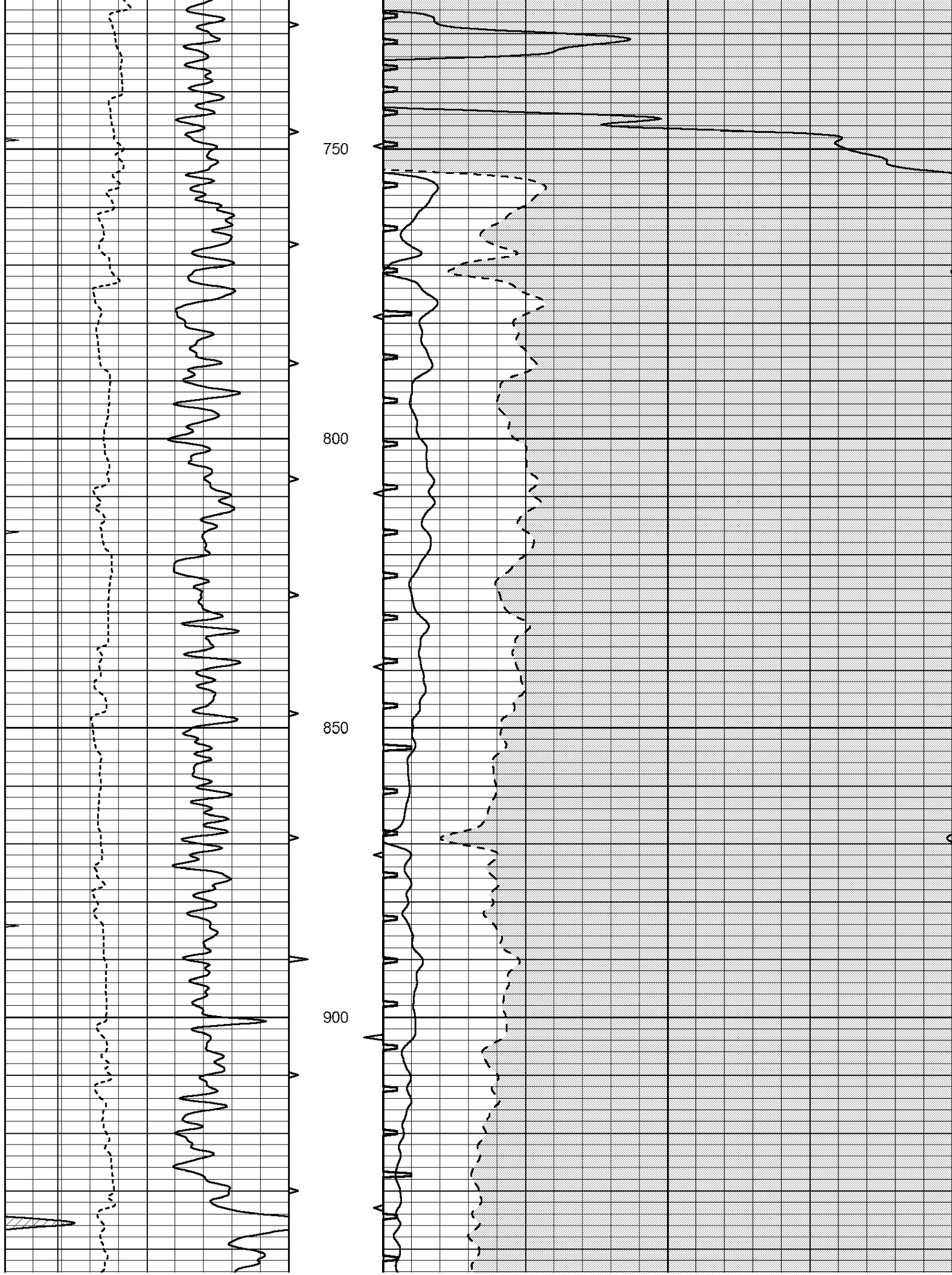
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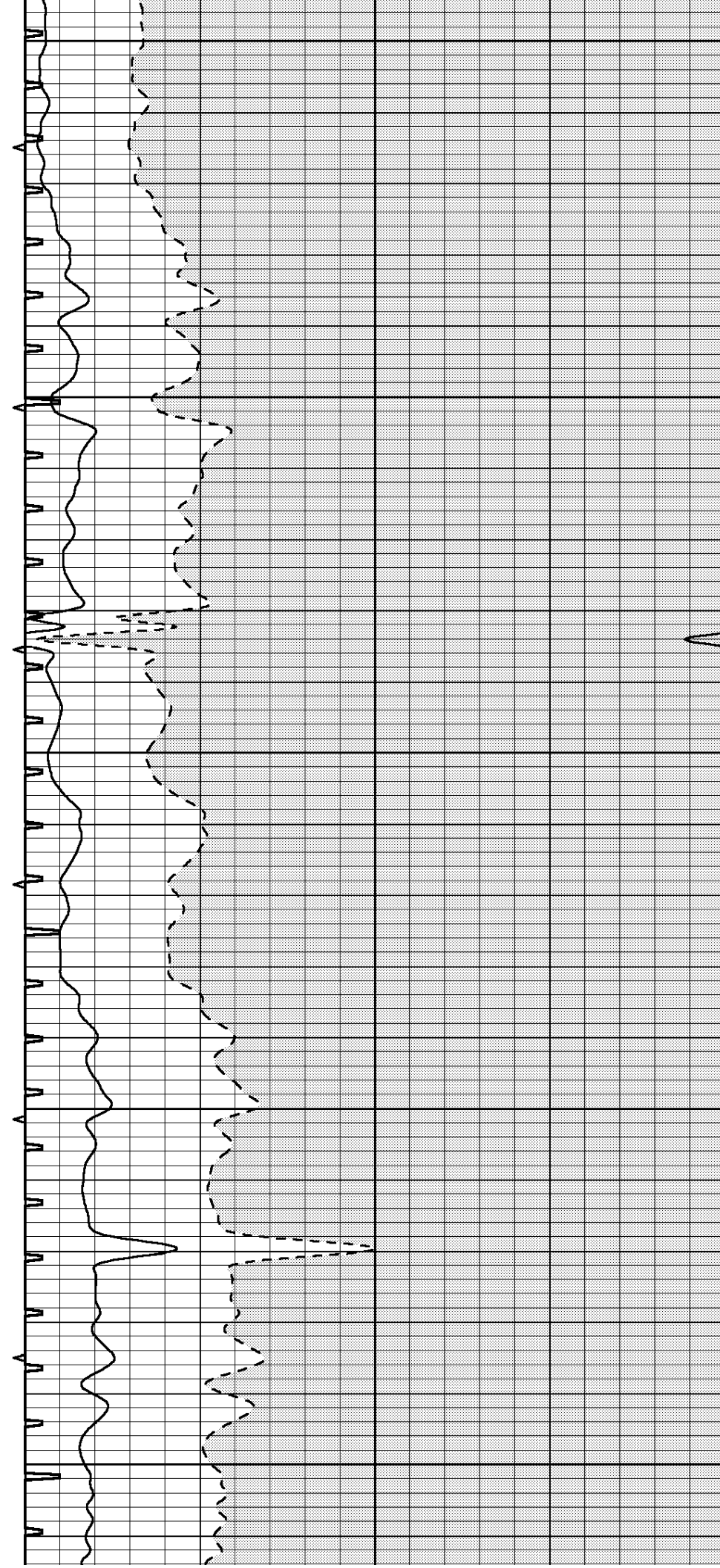
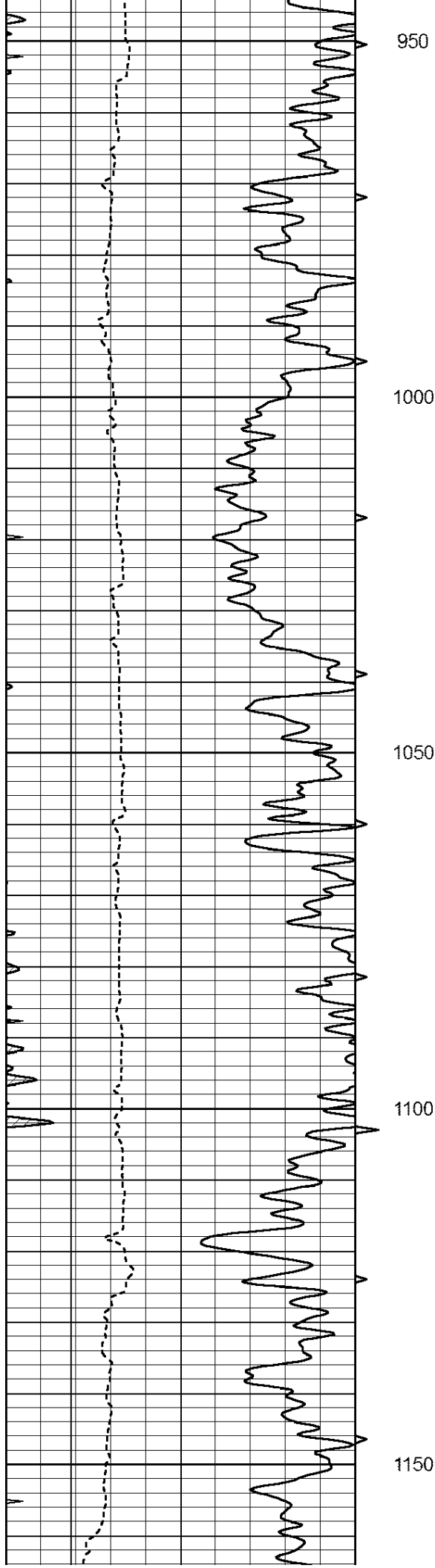
MAIN SECTION

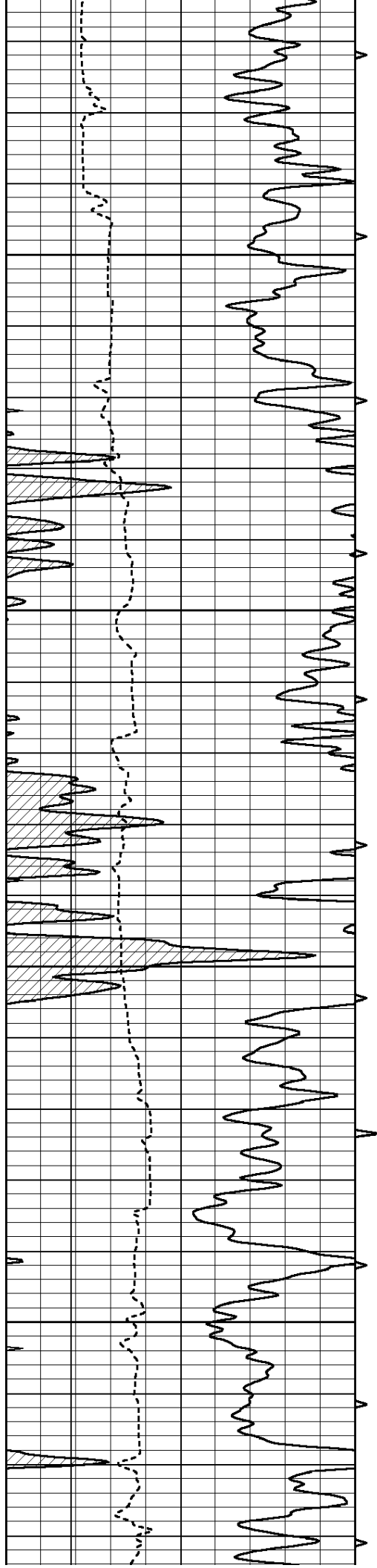
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Dataset Pathname: pass6.2
Presentation Format: _slt
Dataset Creation: Fri Nov 06 06:36:52 2015 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			







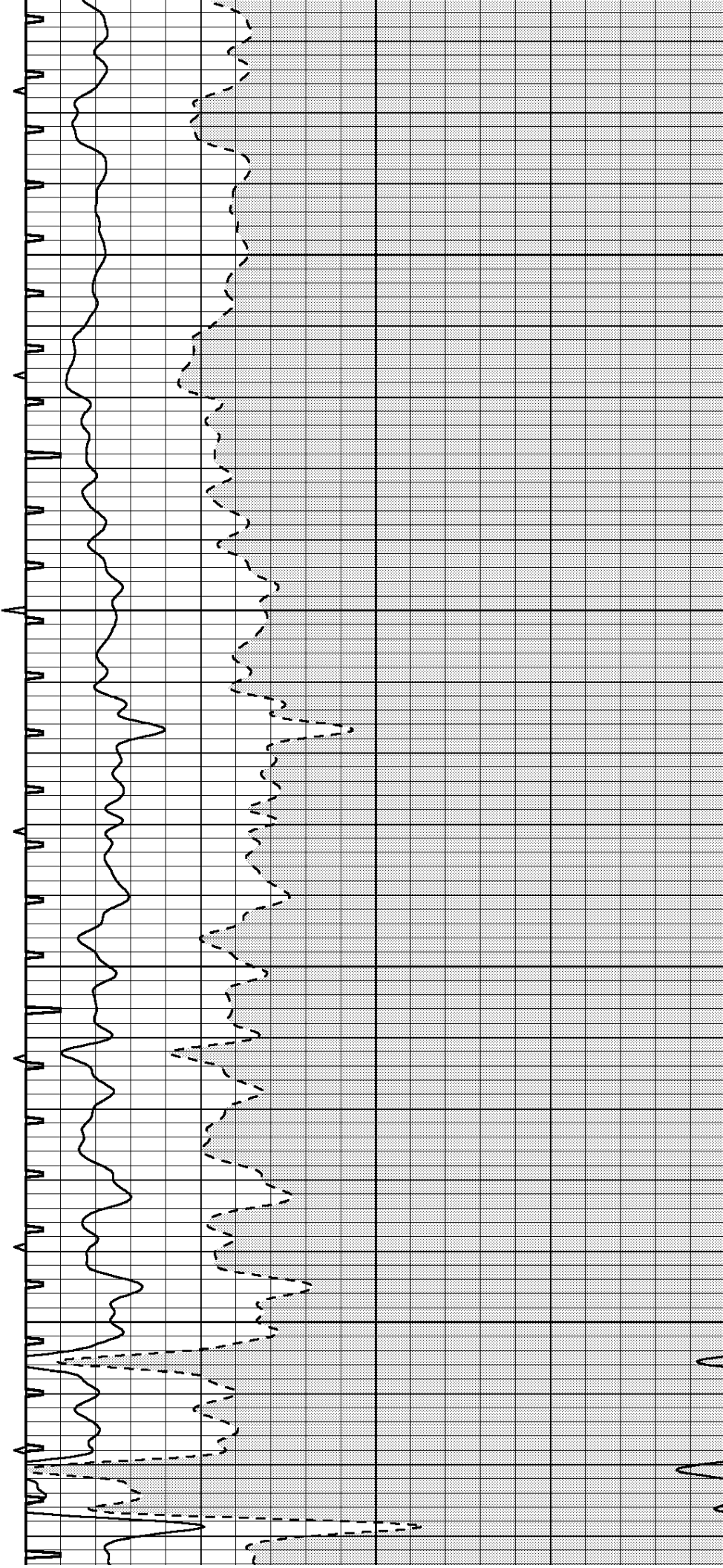


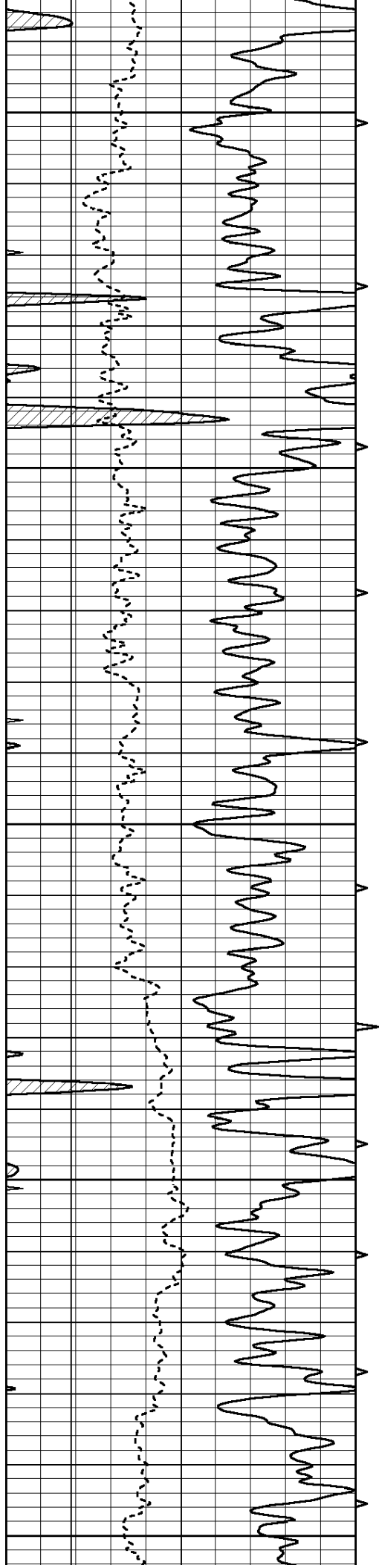
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1250

1300

1350





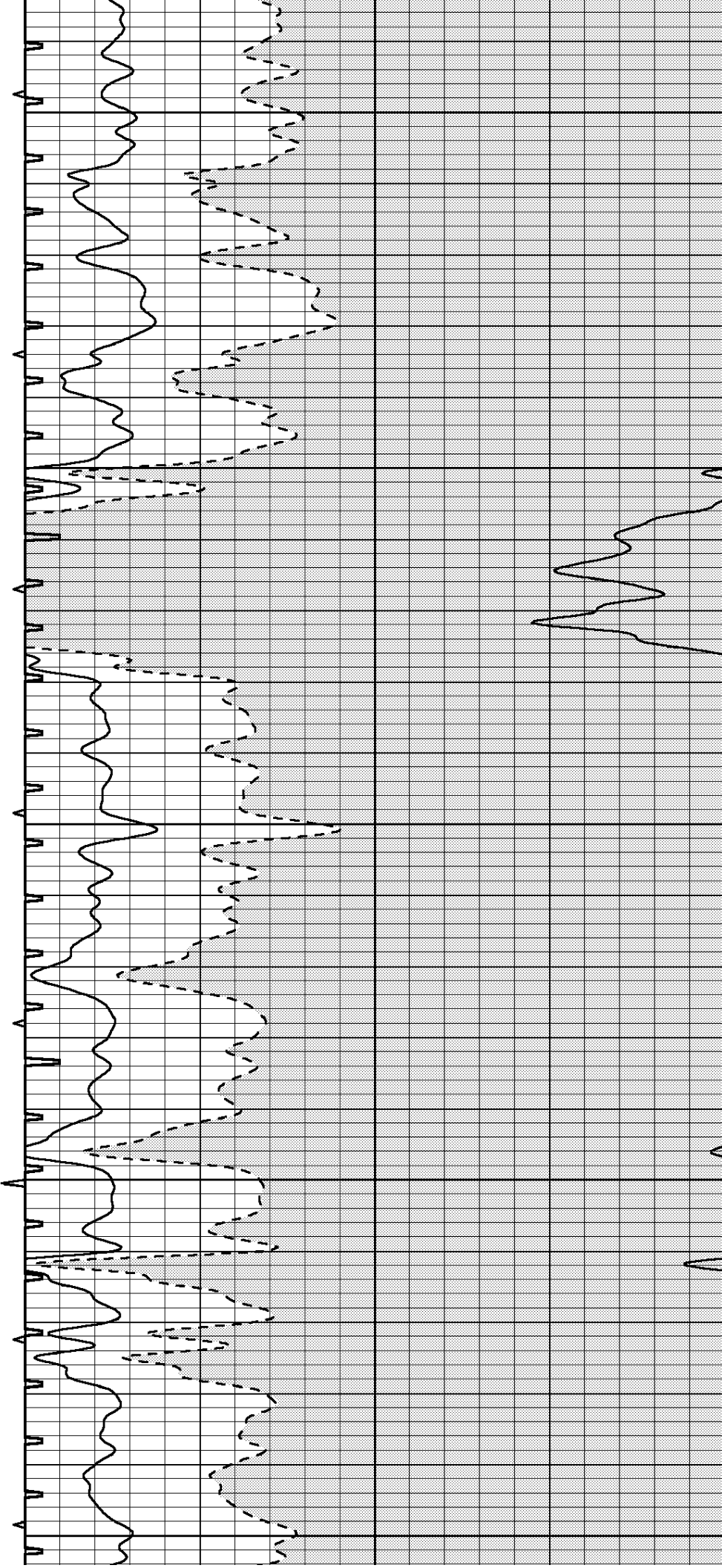
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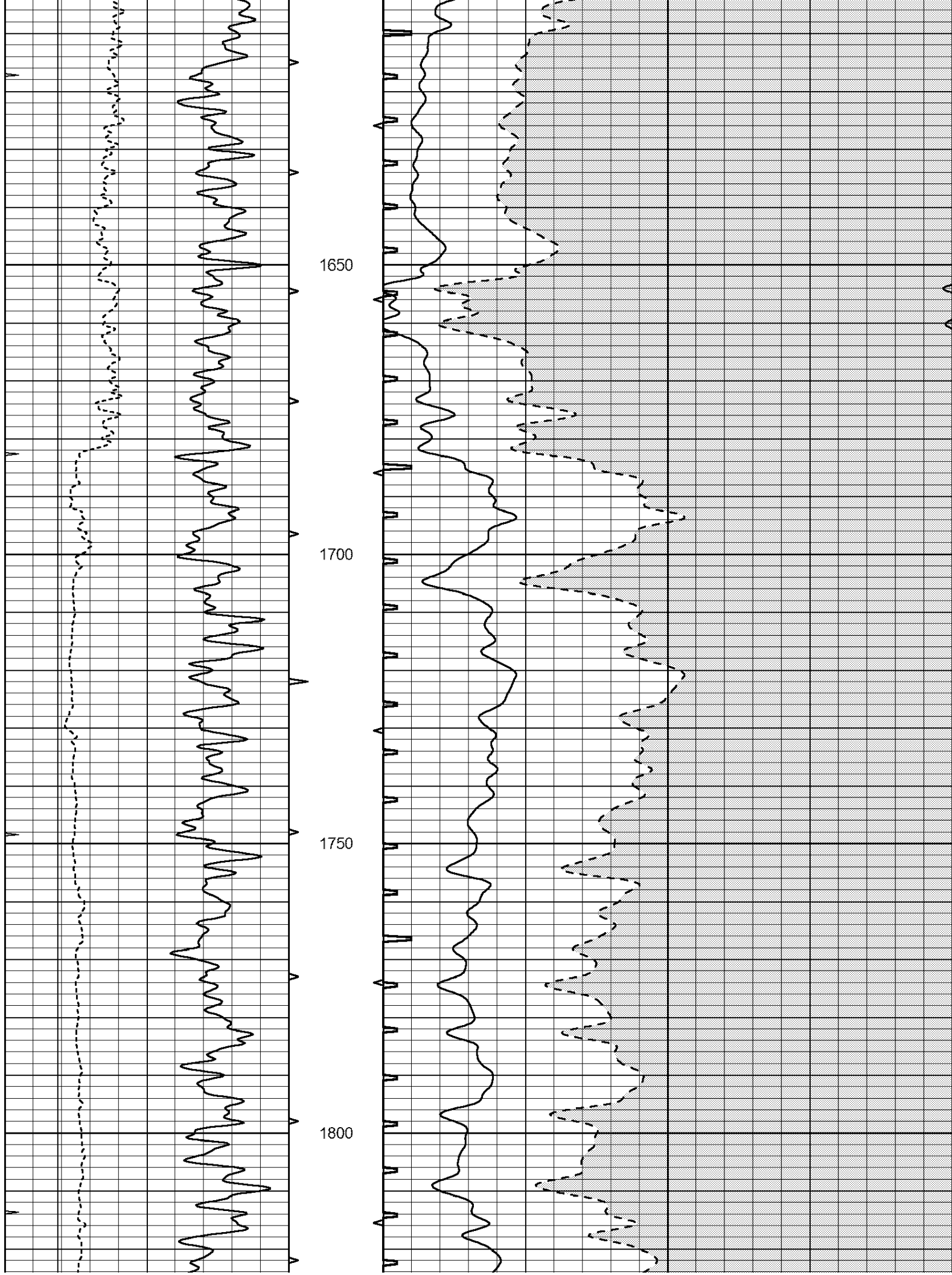
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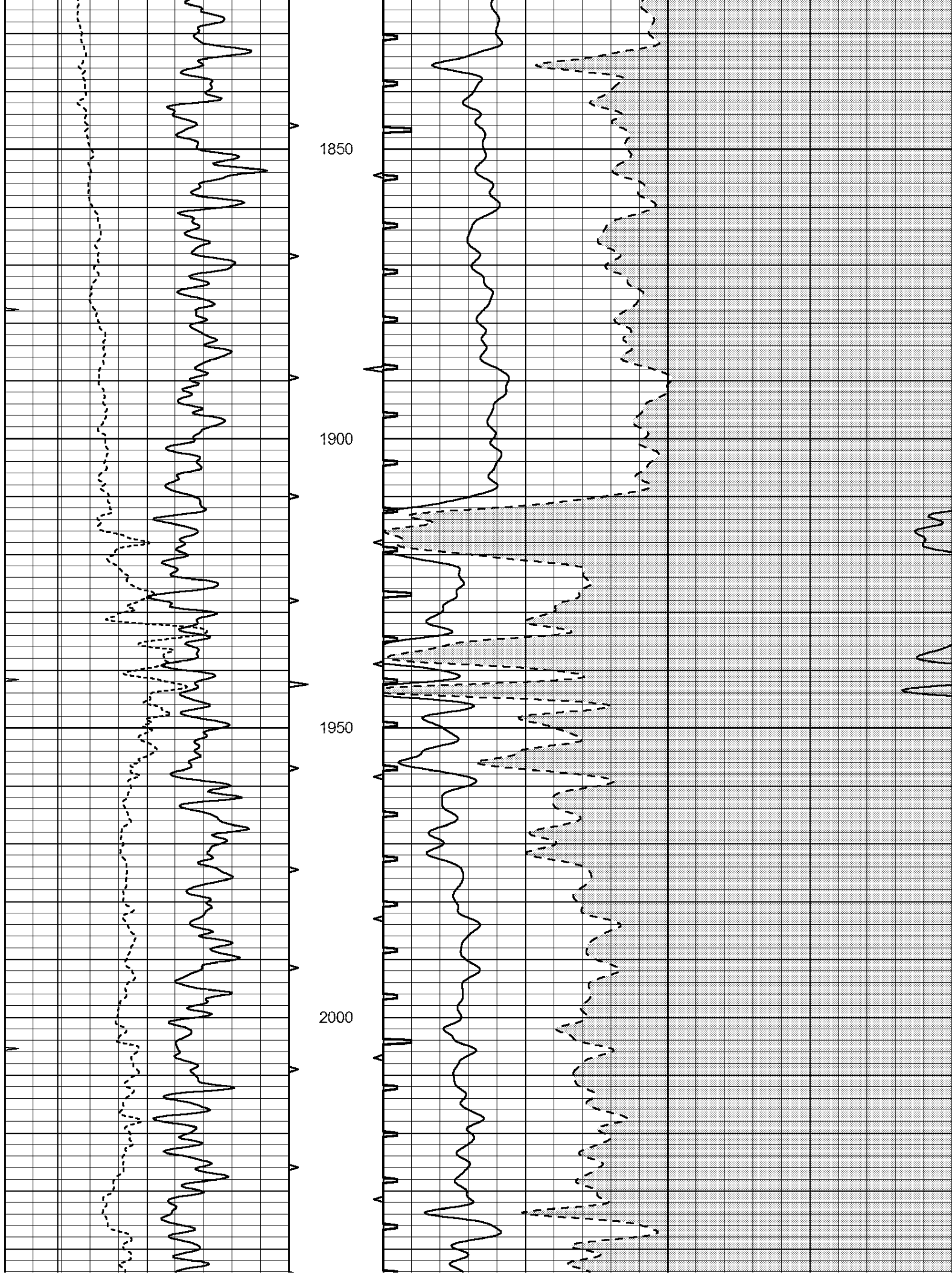
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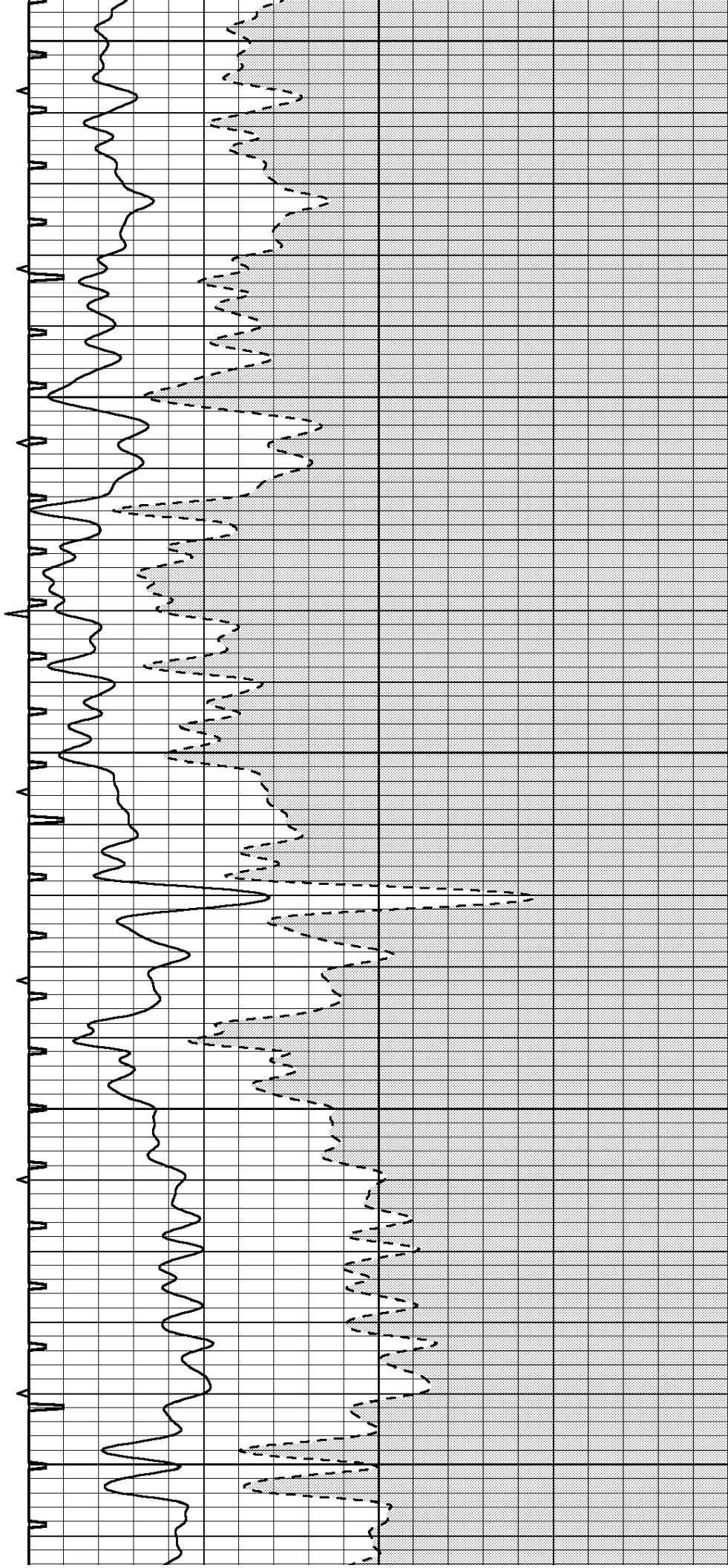
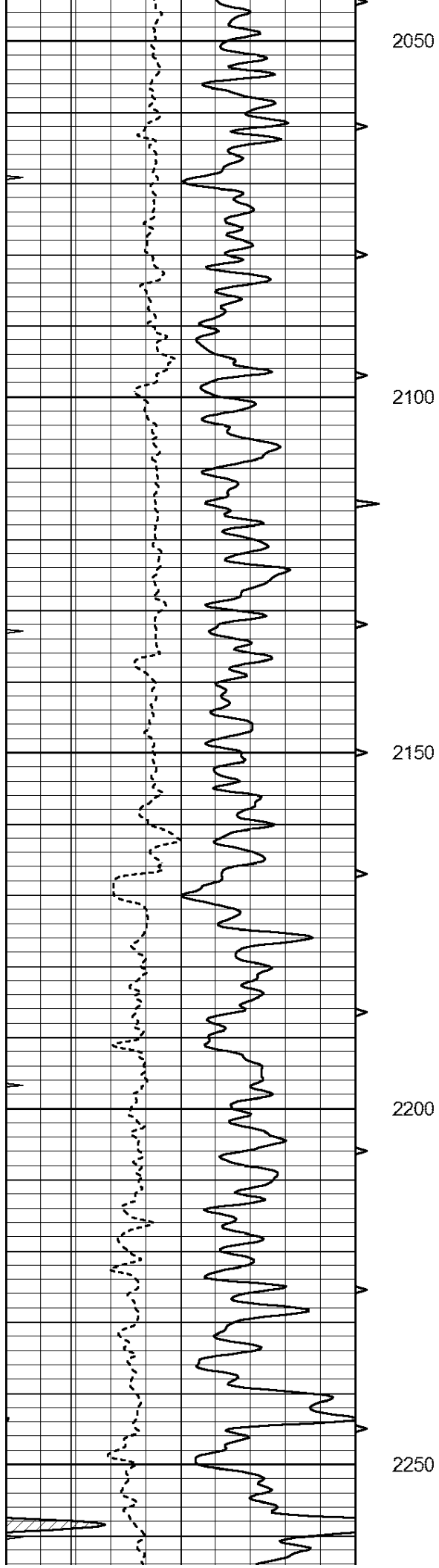
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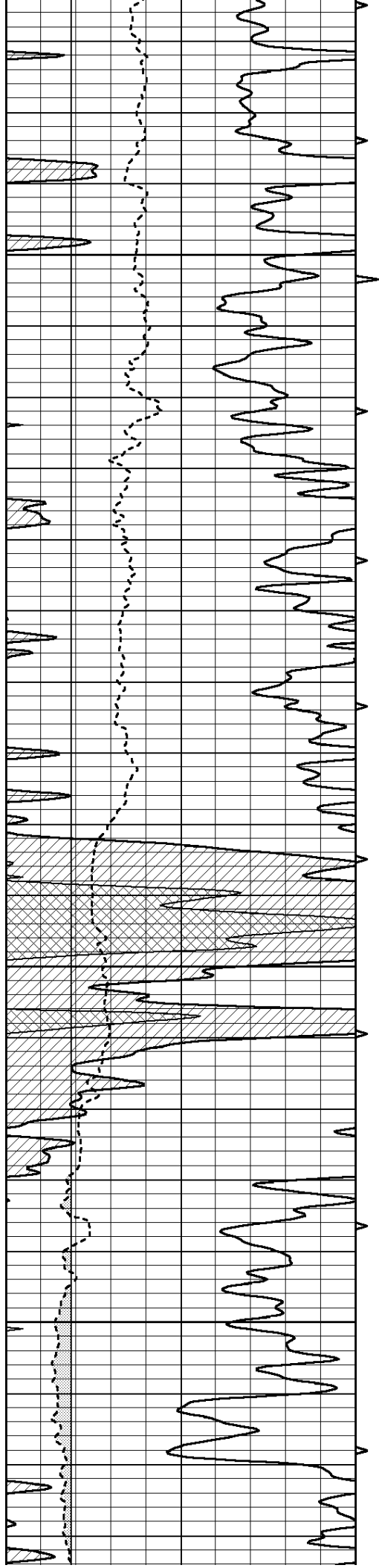
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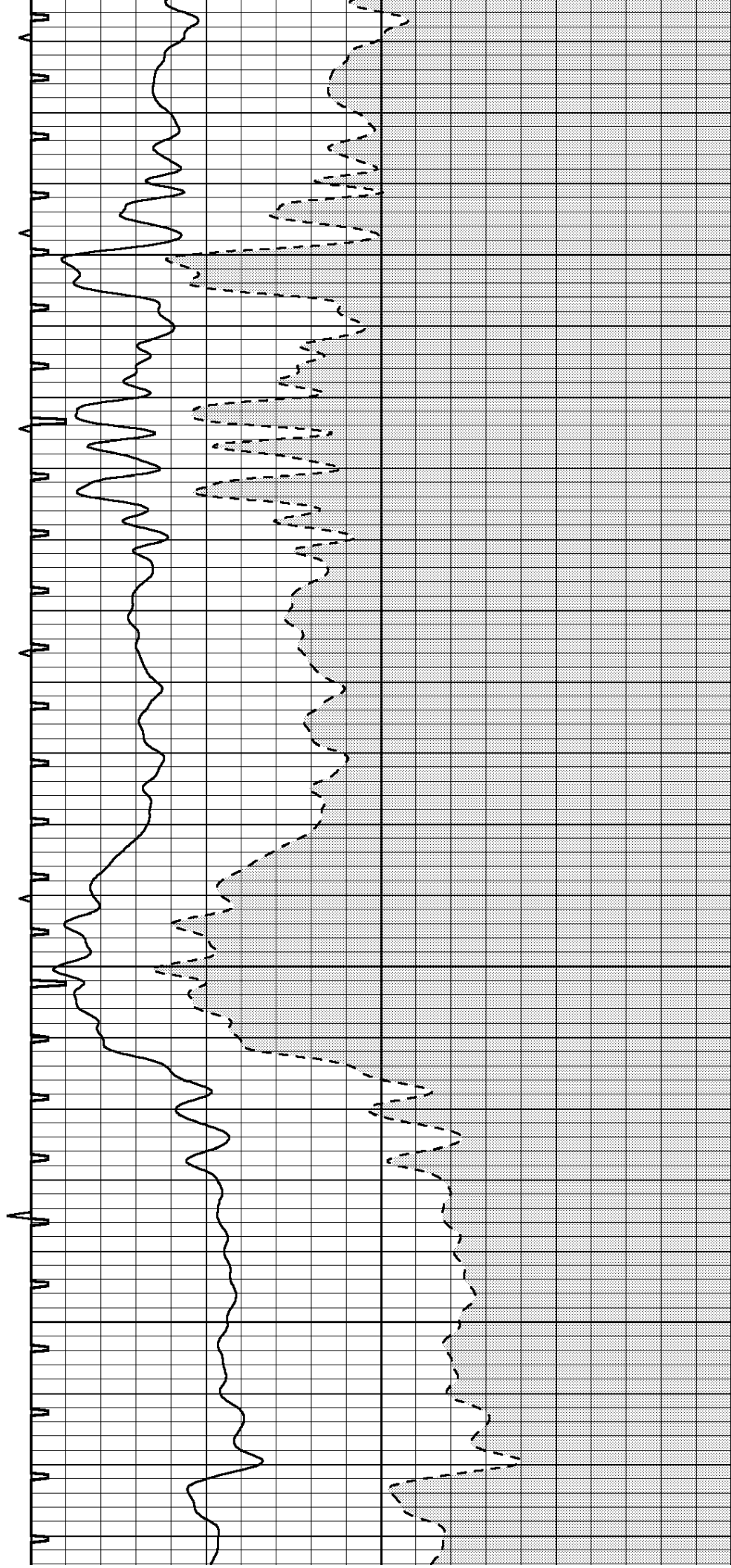


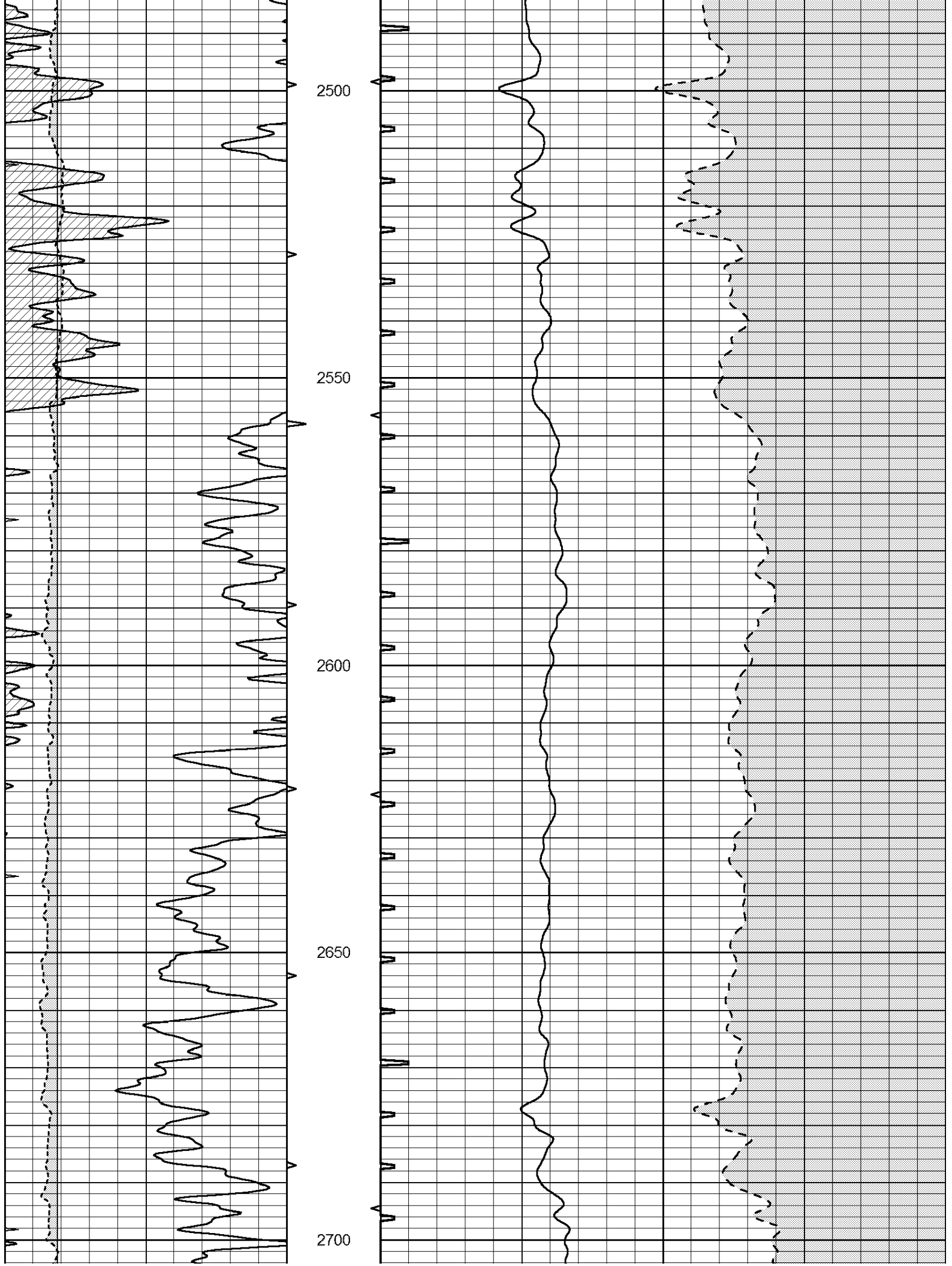
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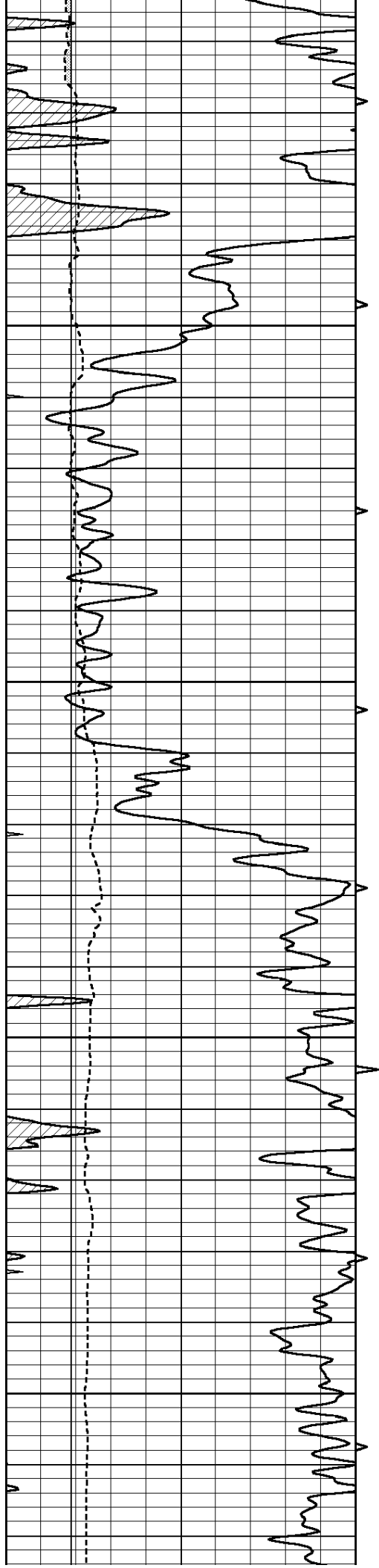
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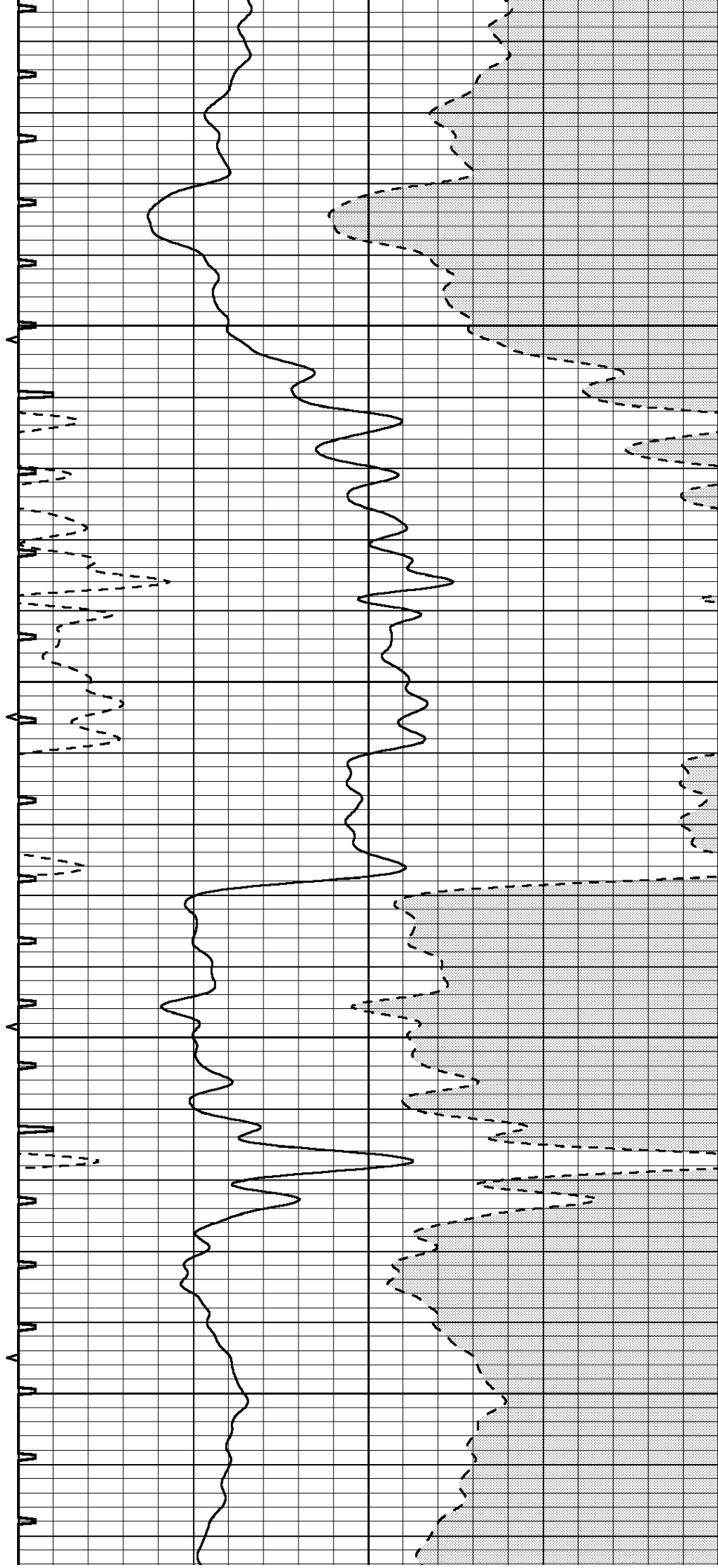


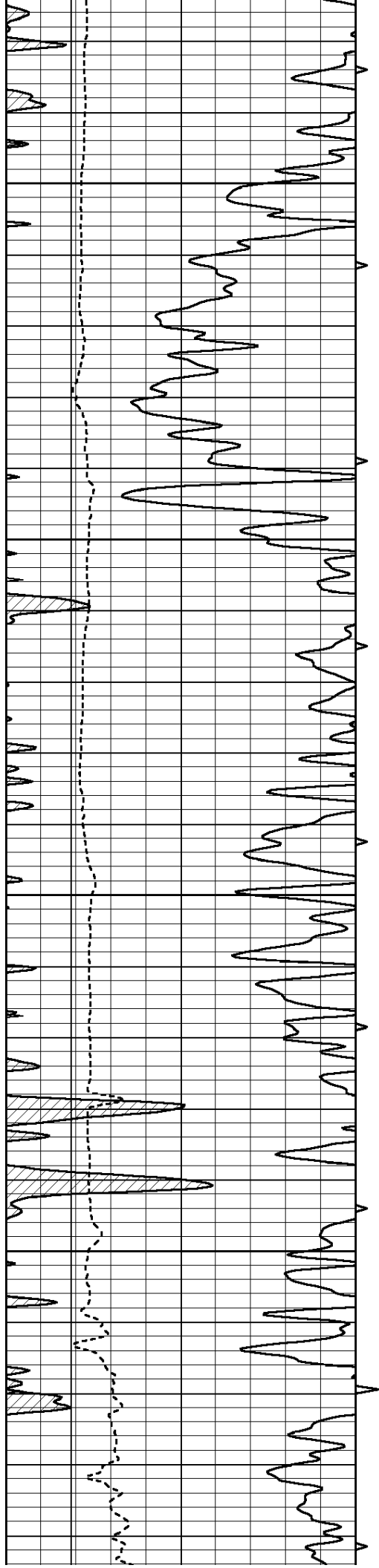
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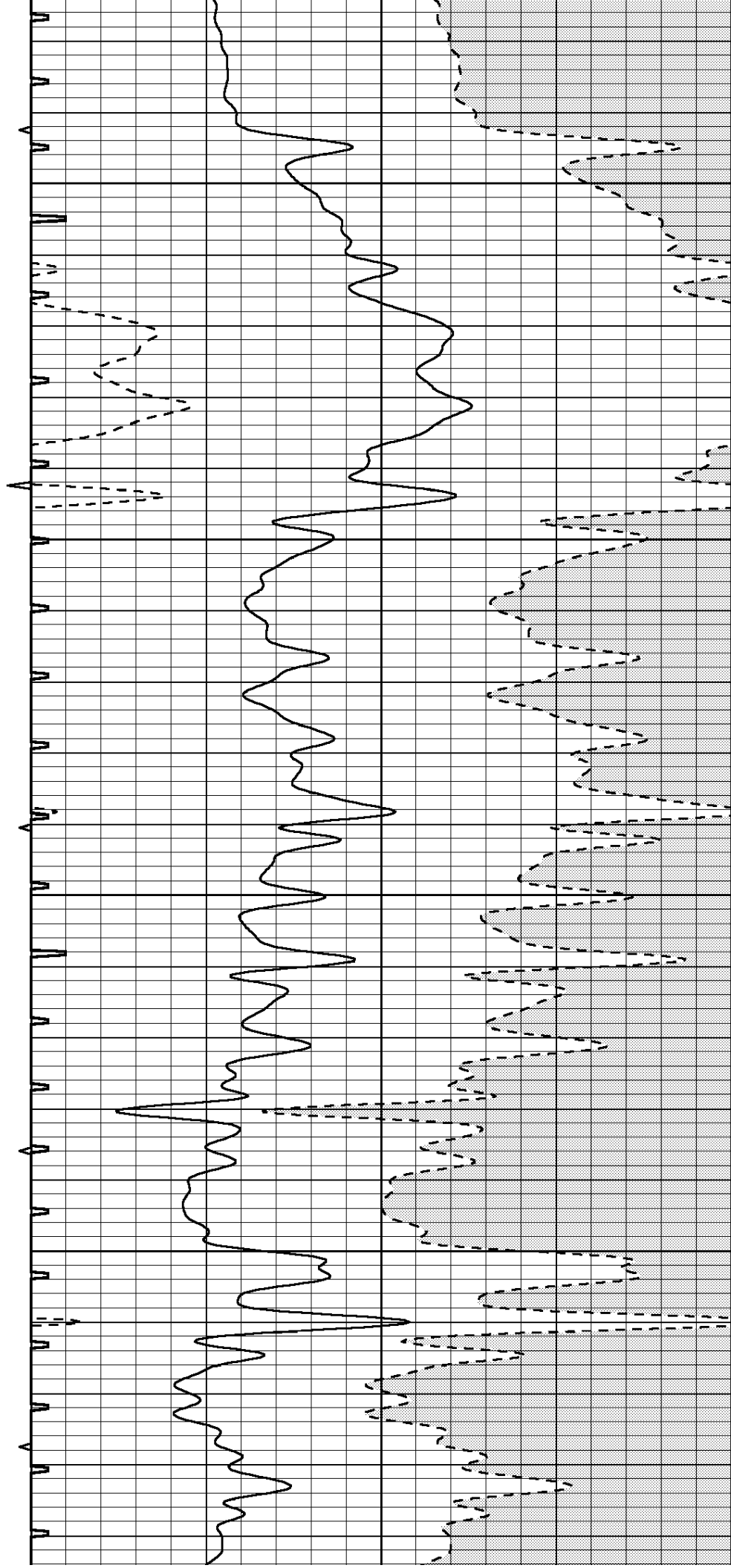


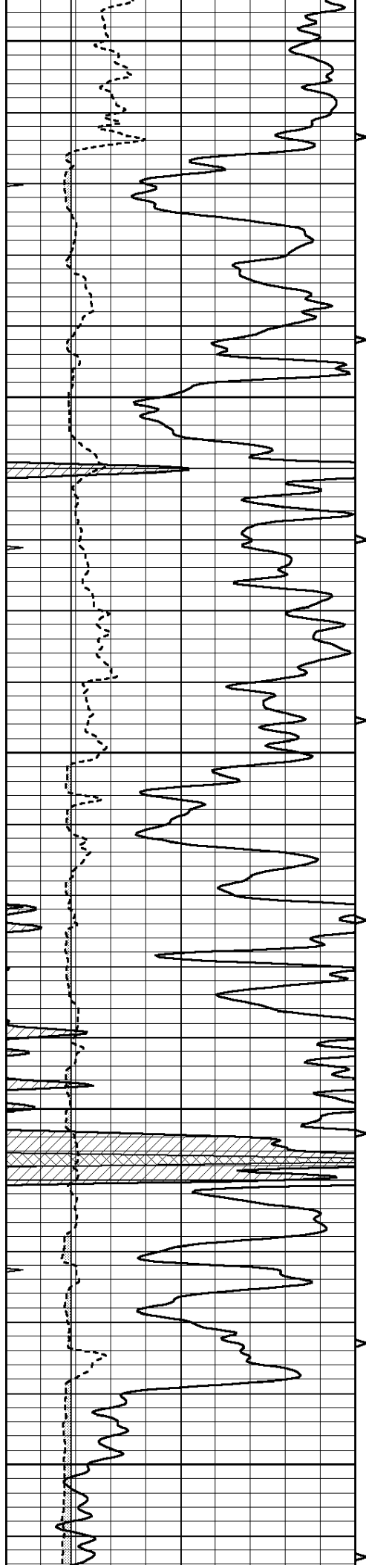
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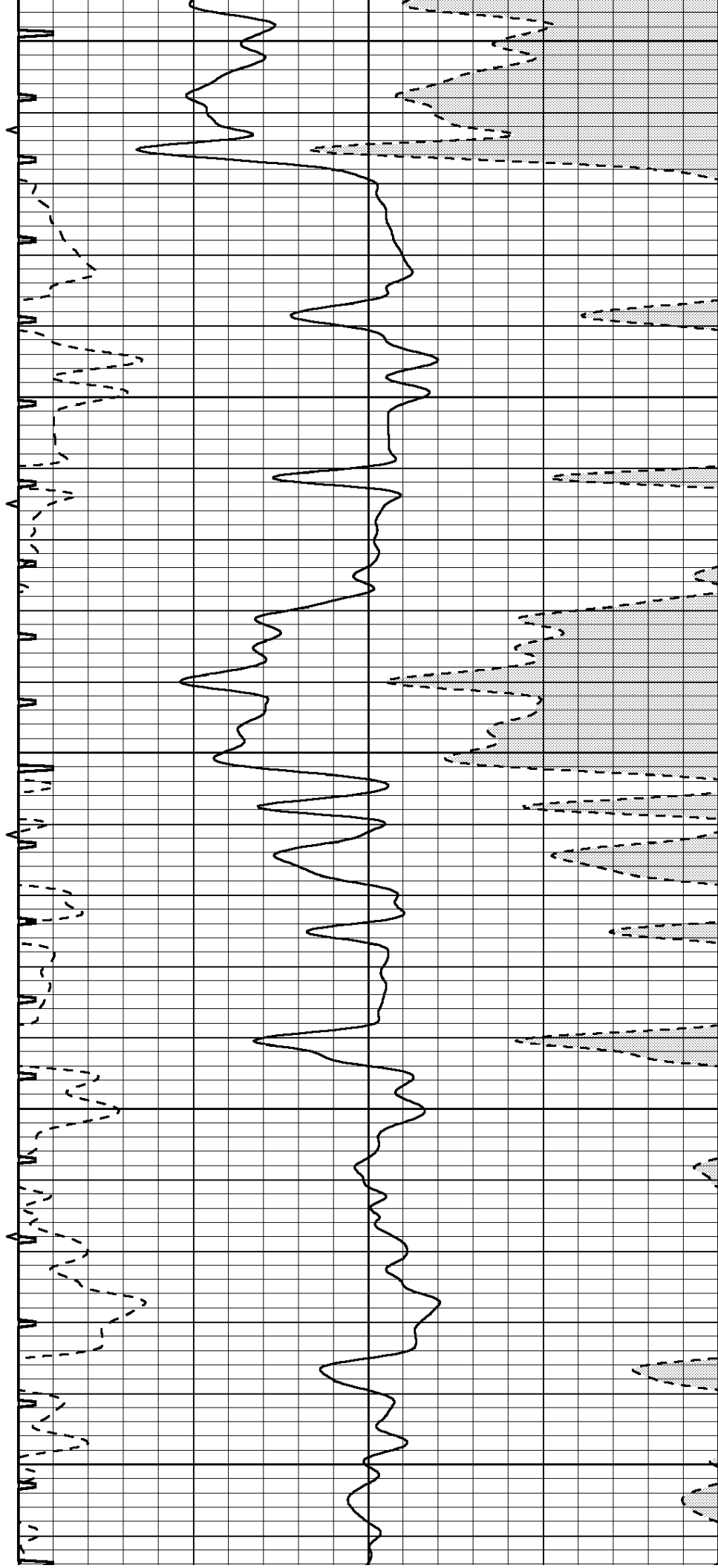
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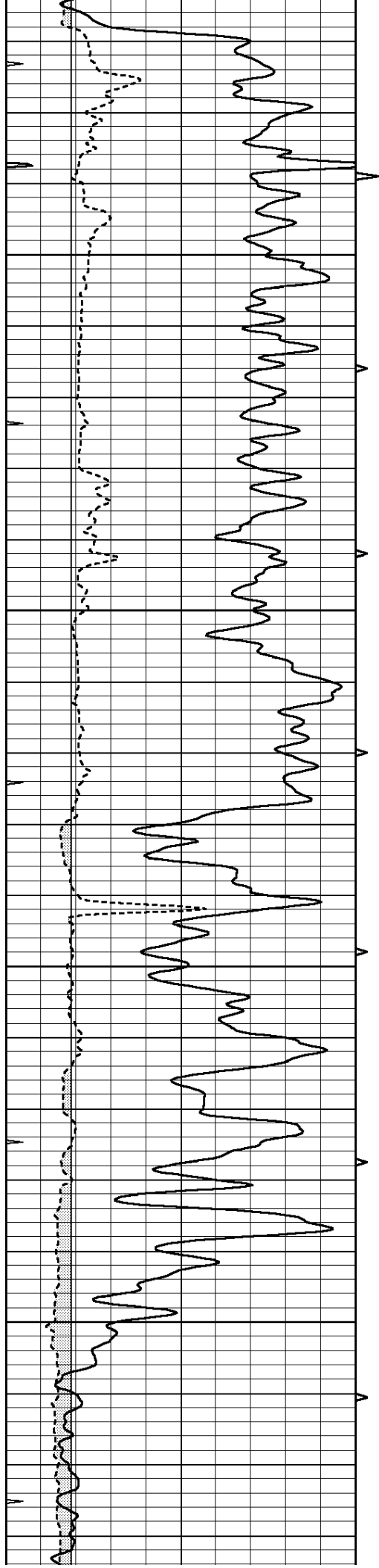
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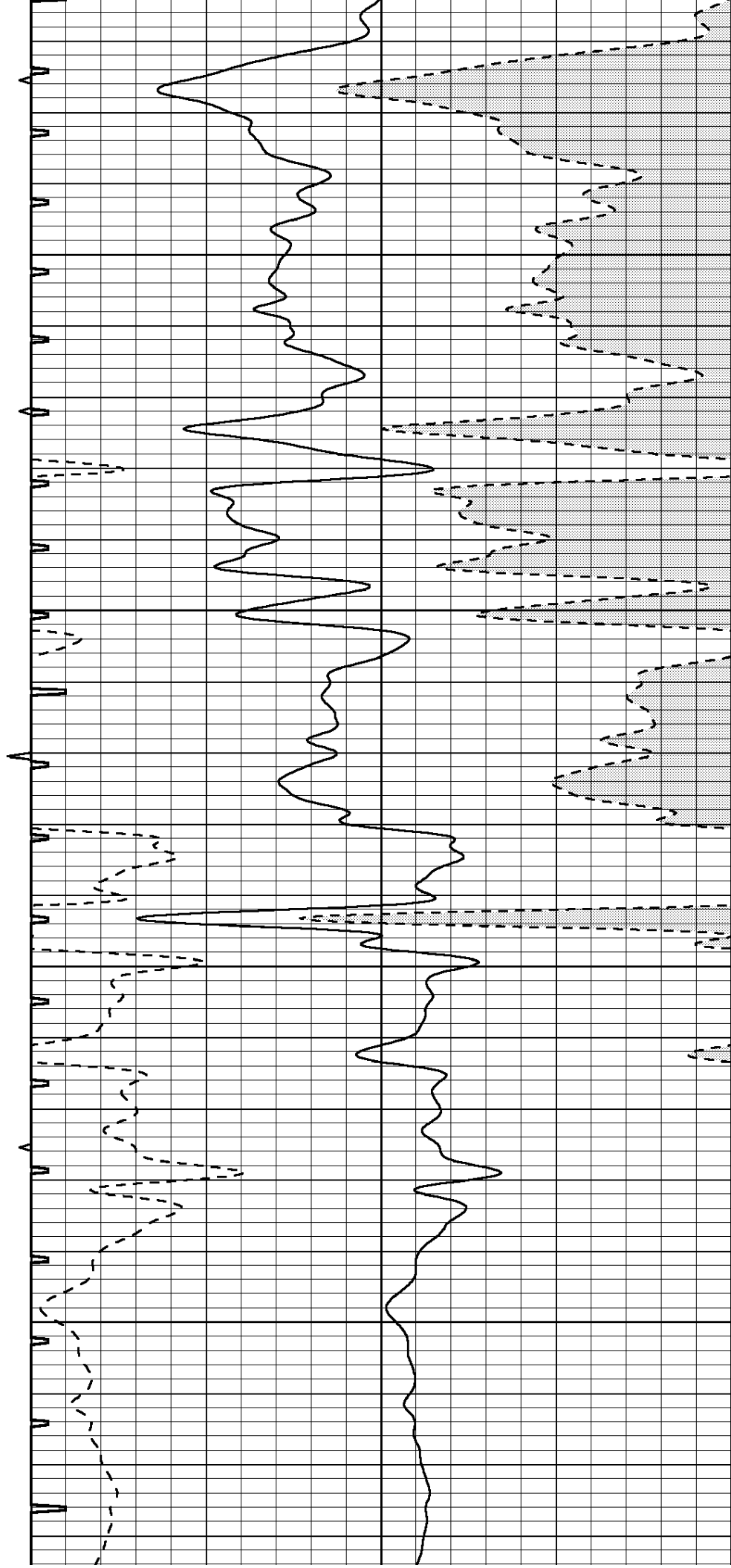


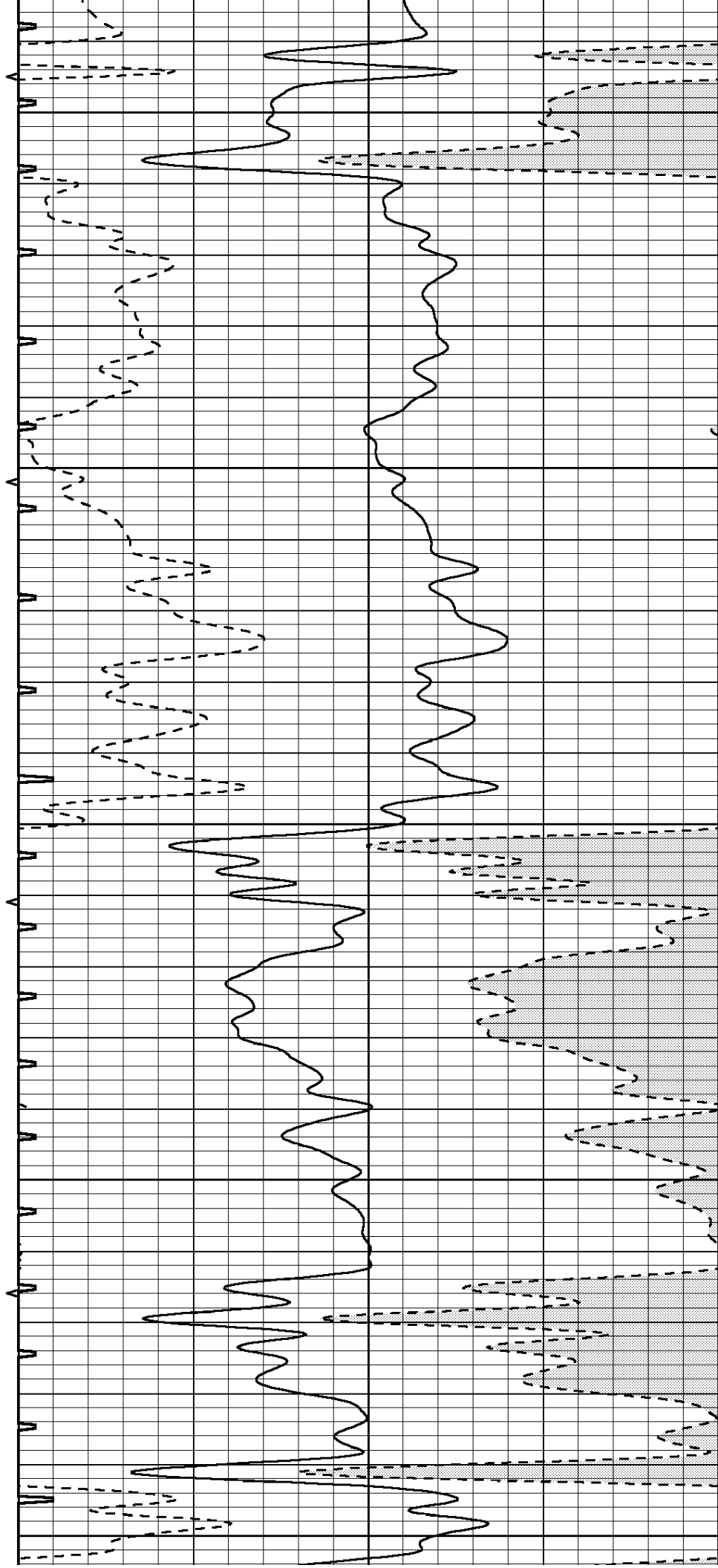
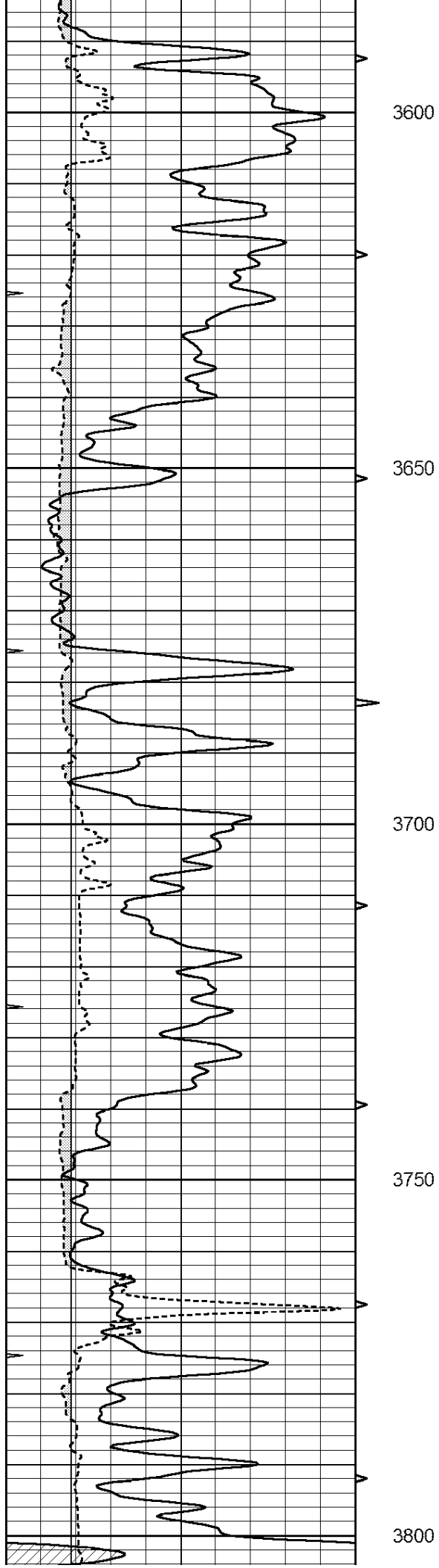
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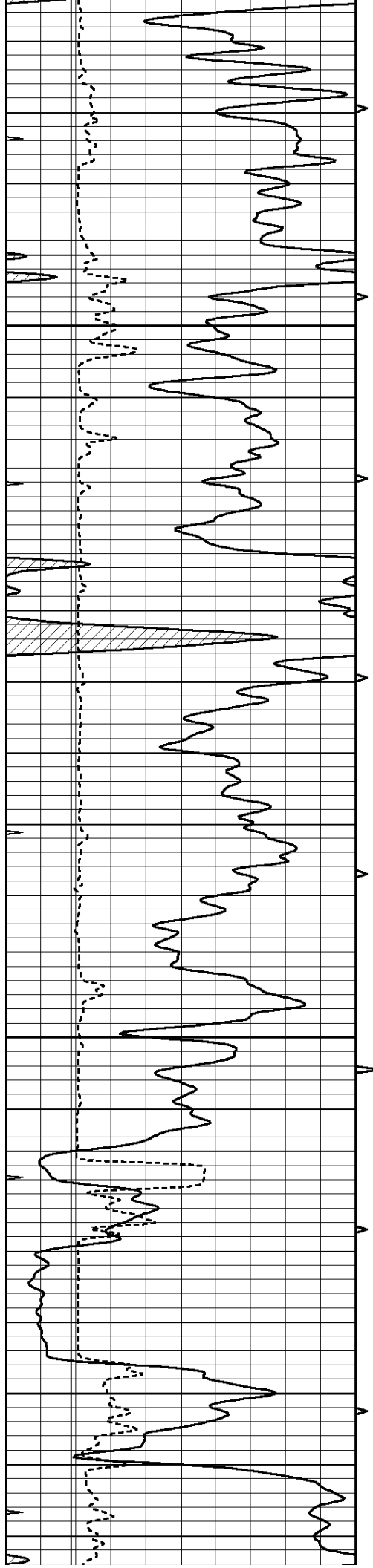
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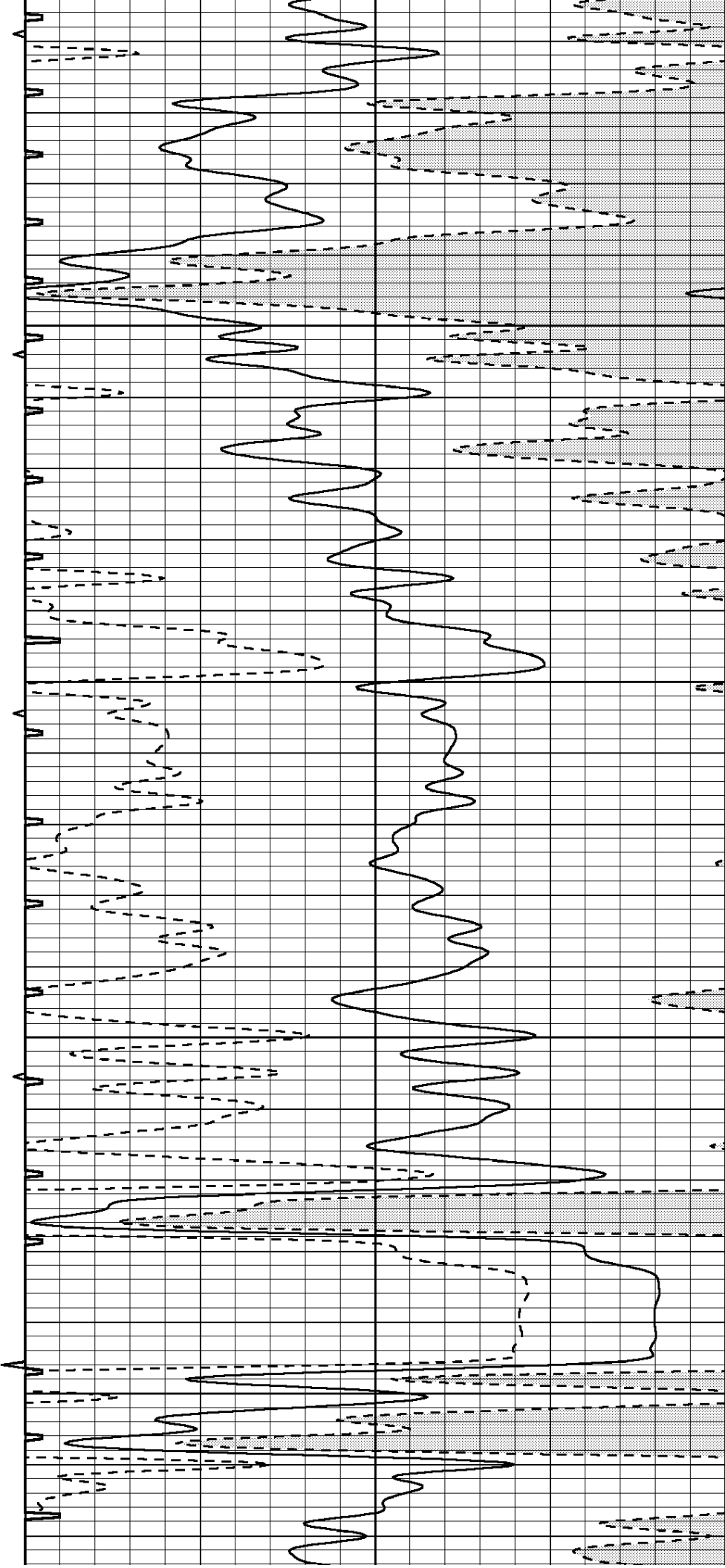


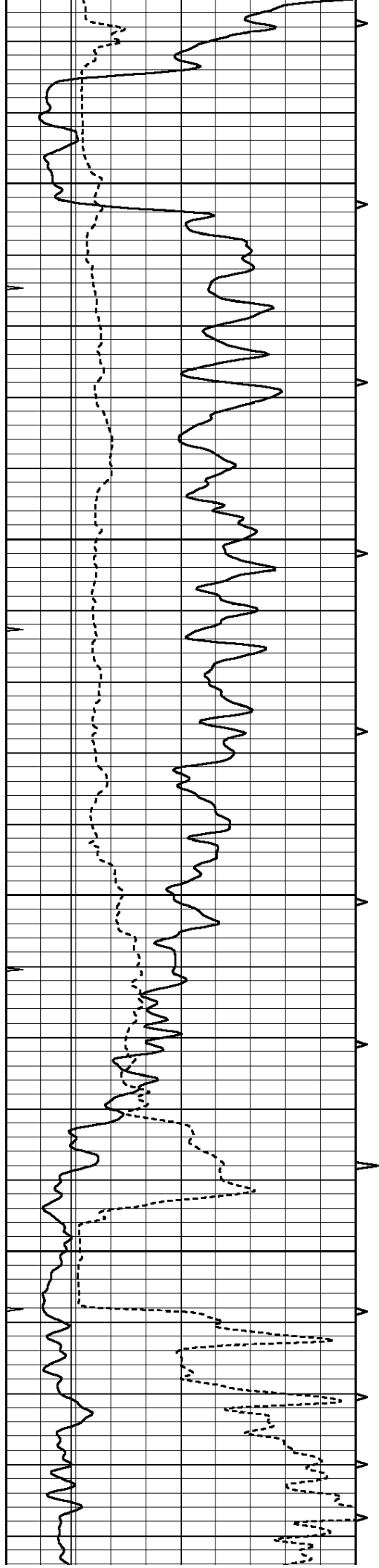
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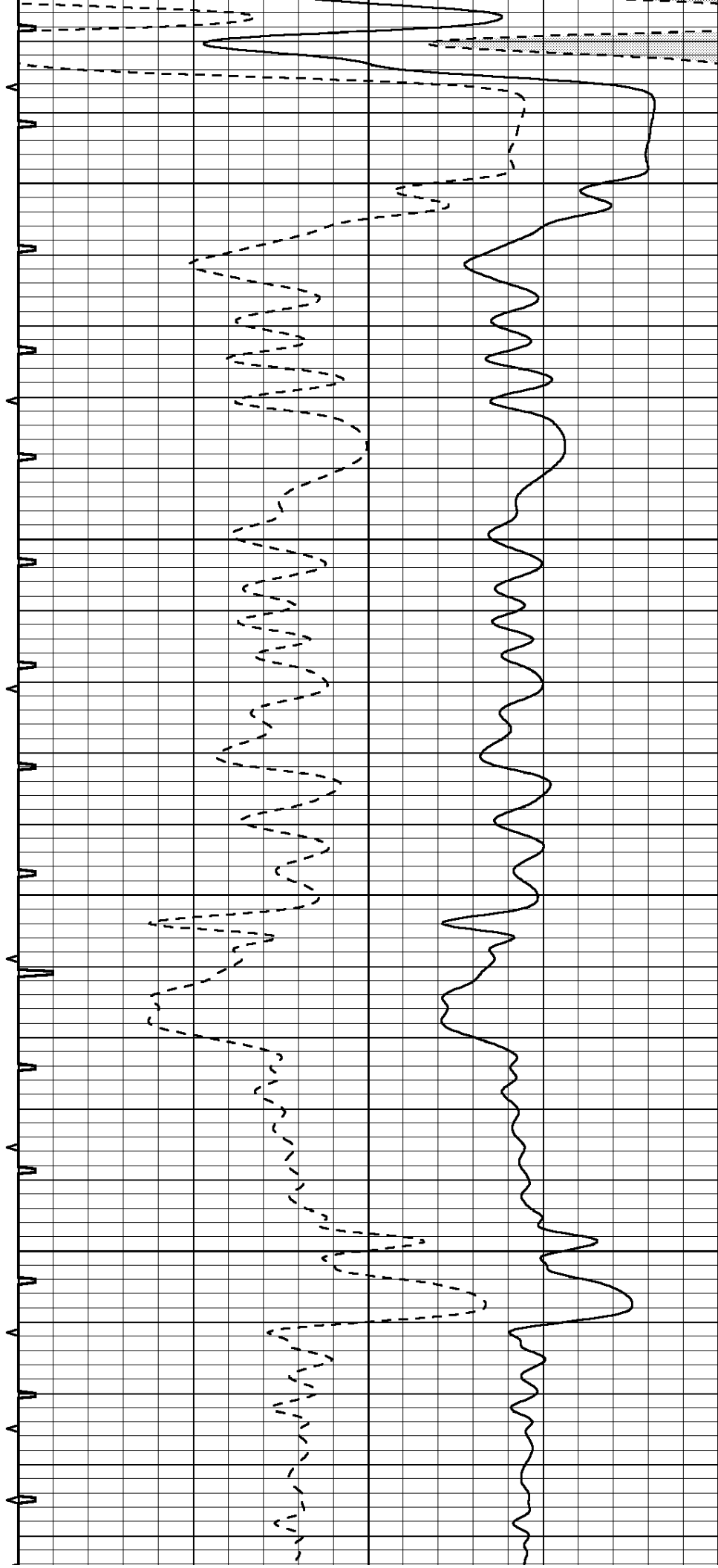


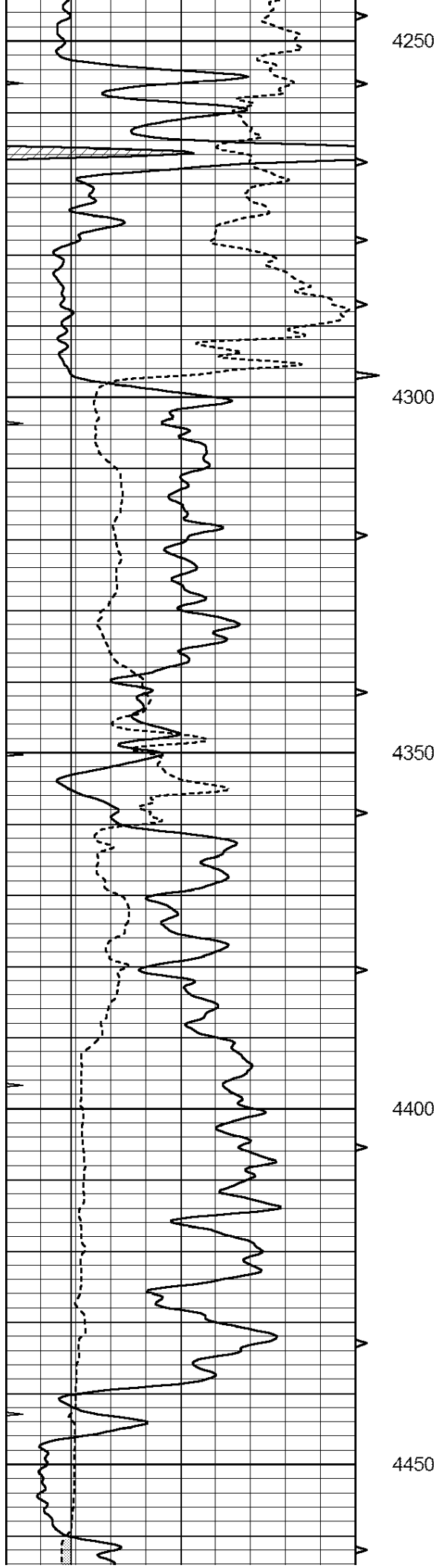
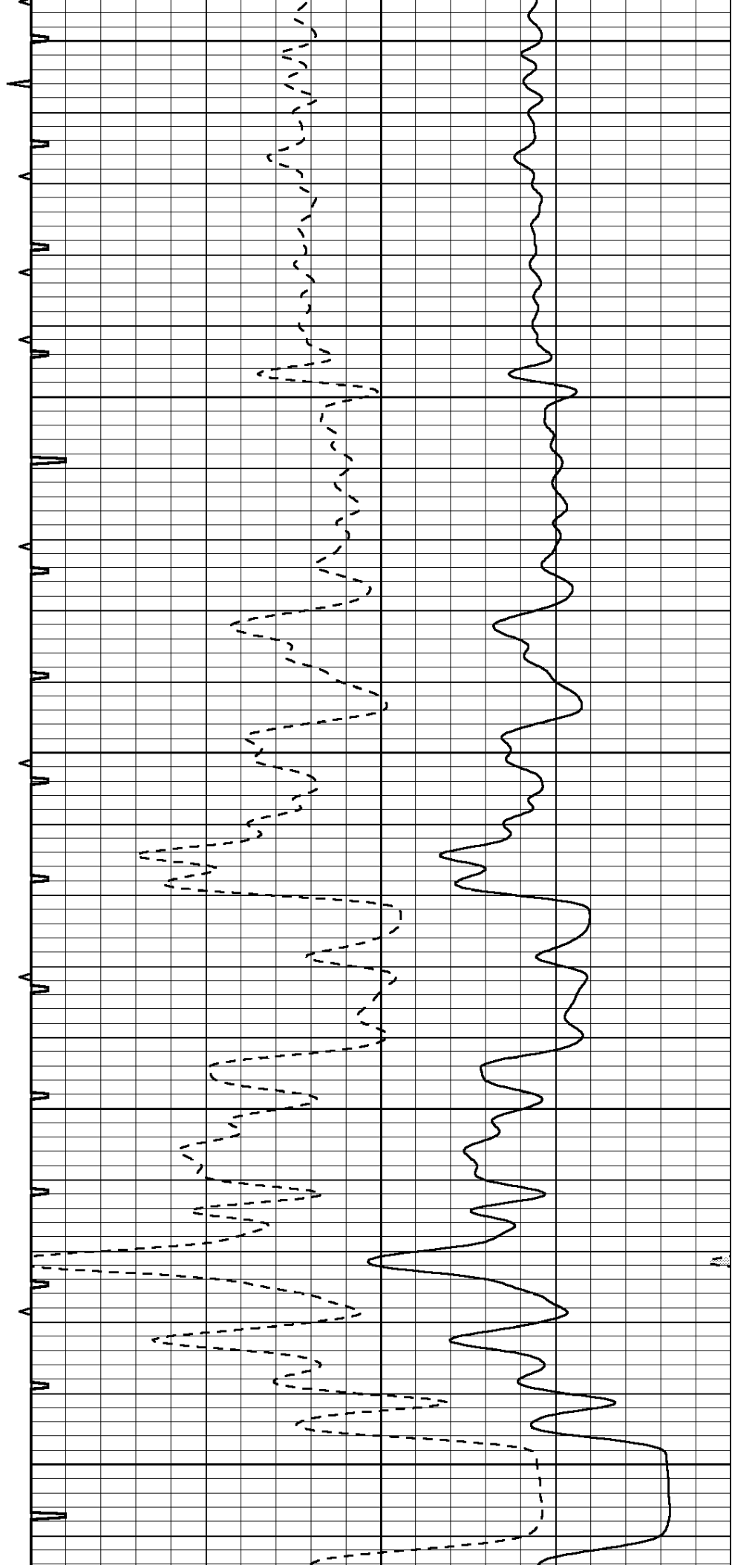
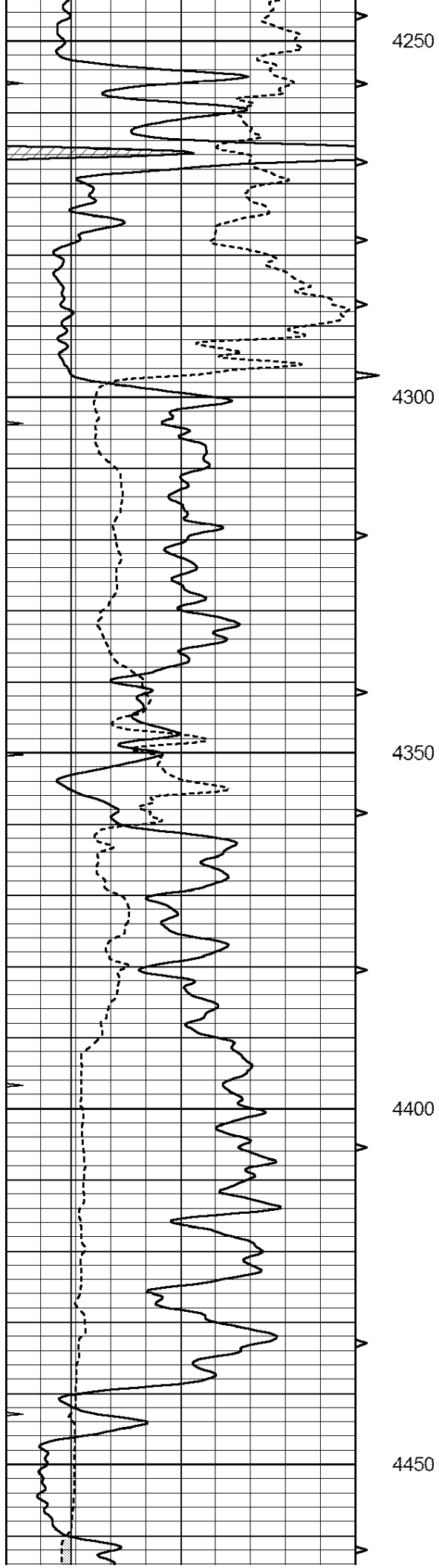
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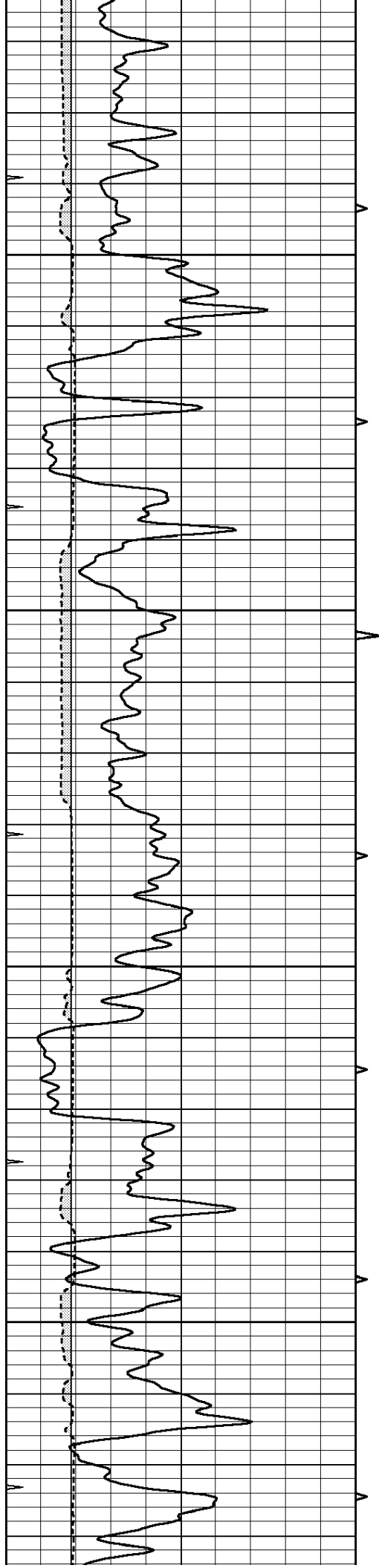
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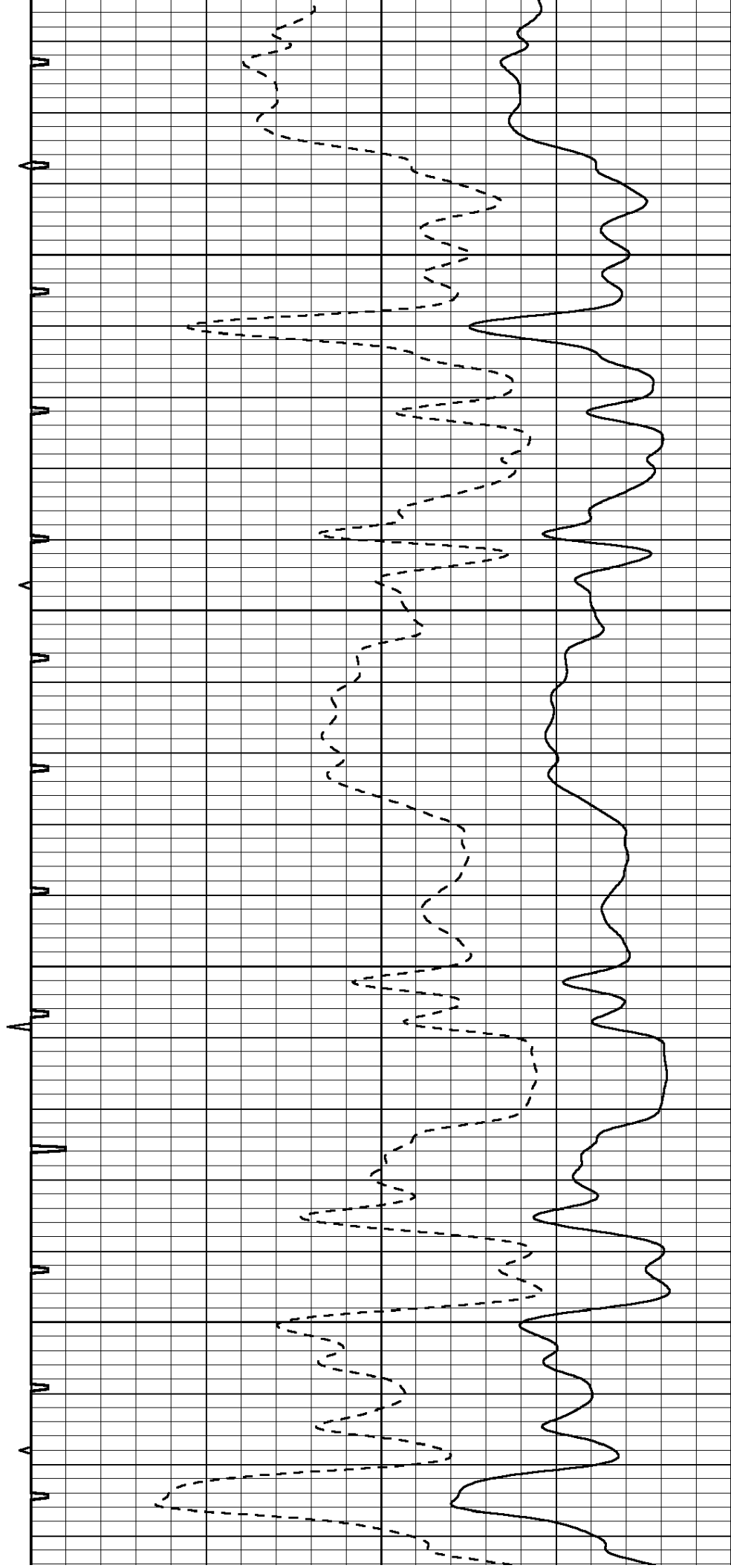


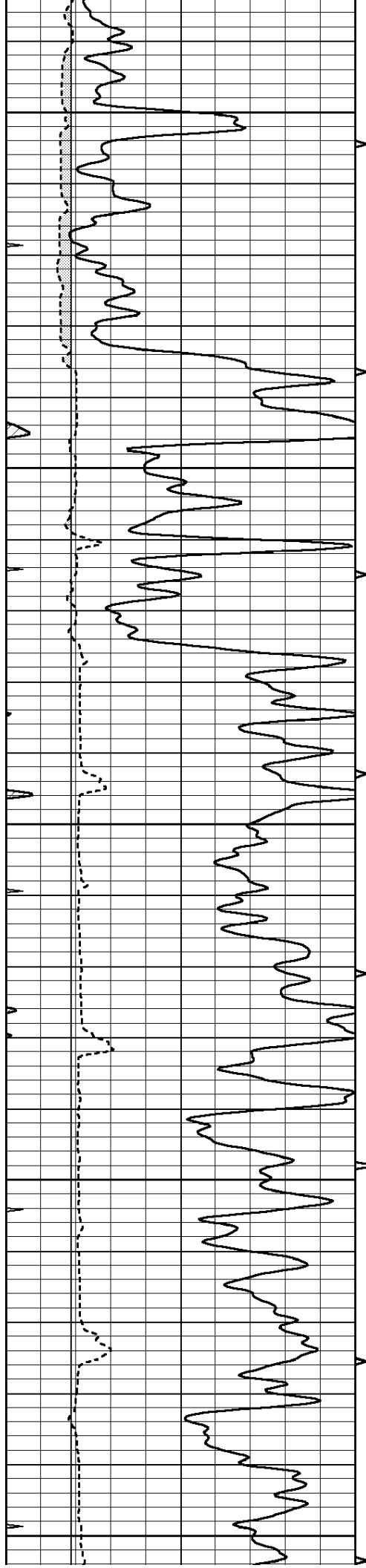
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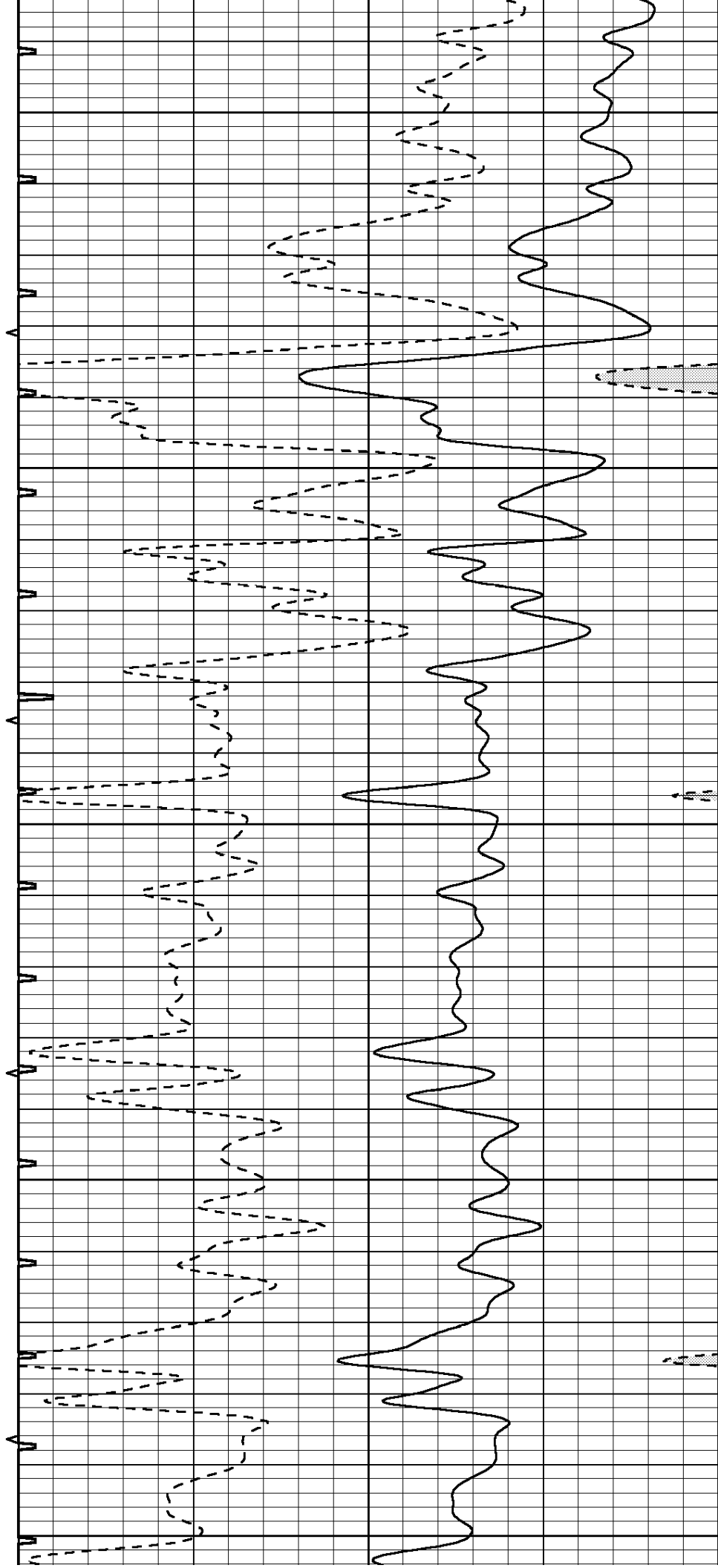
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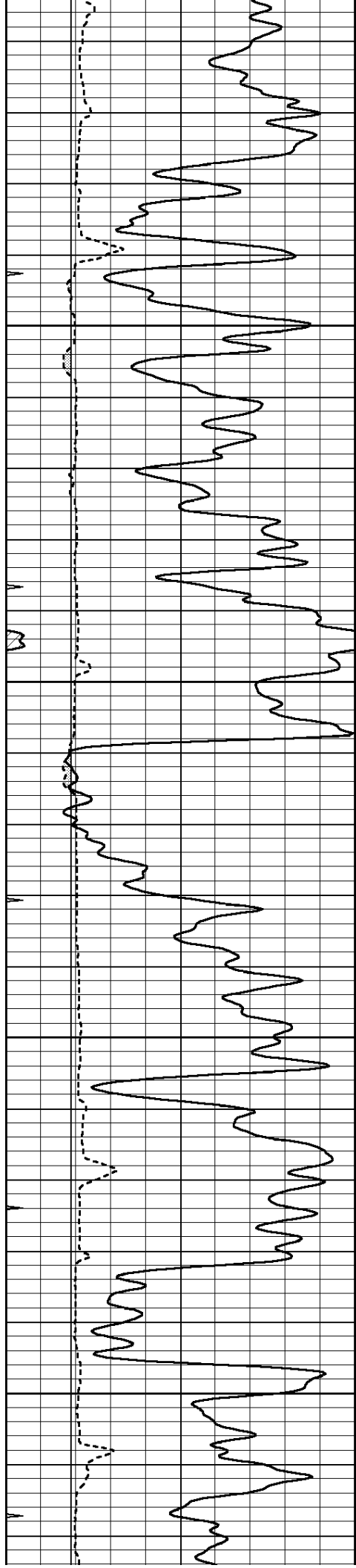
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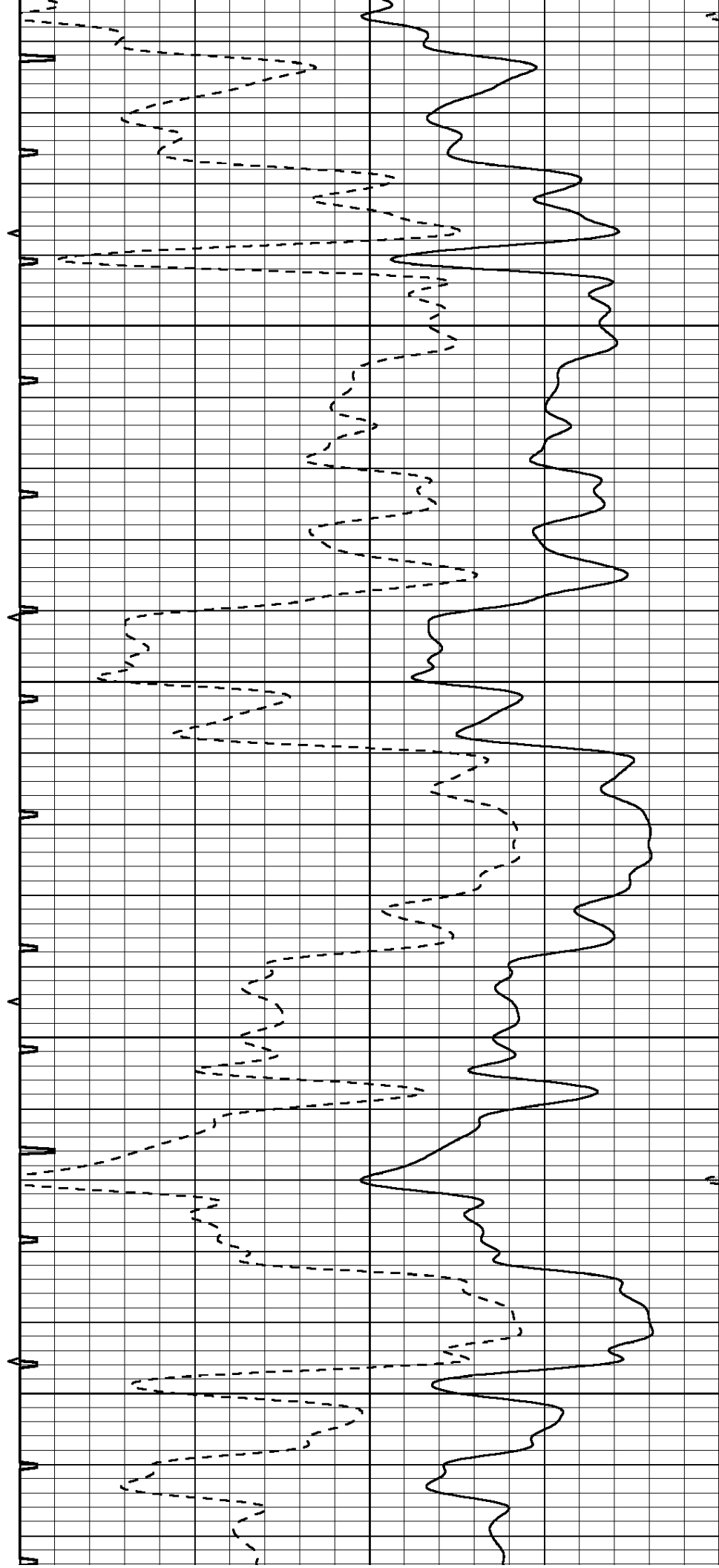


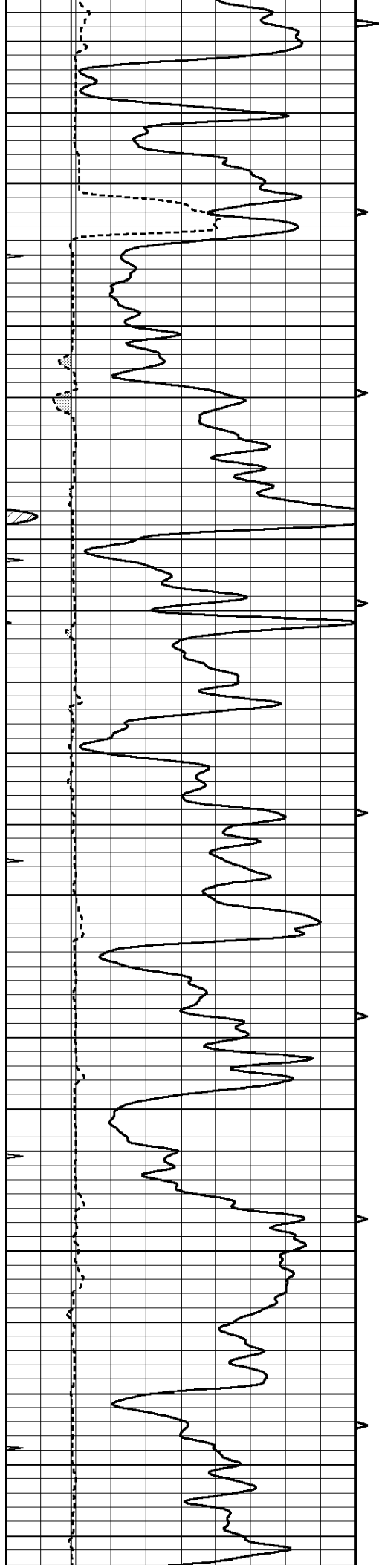
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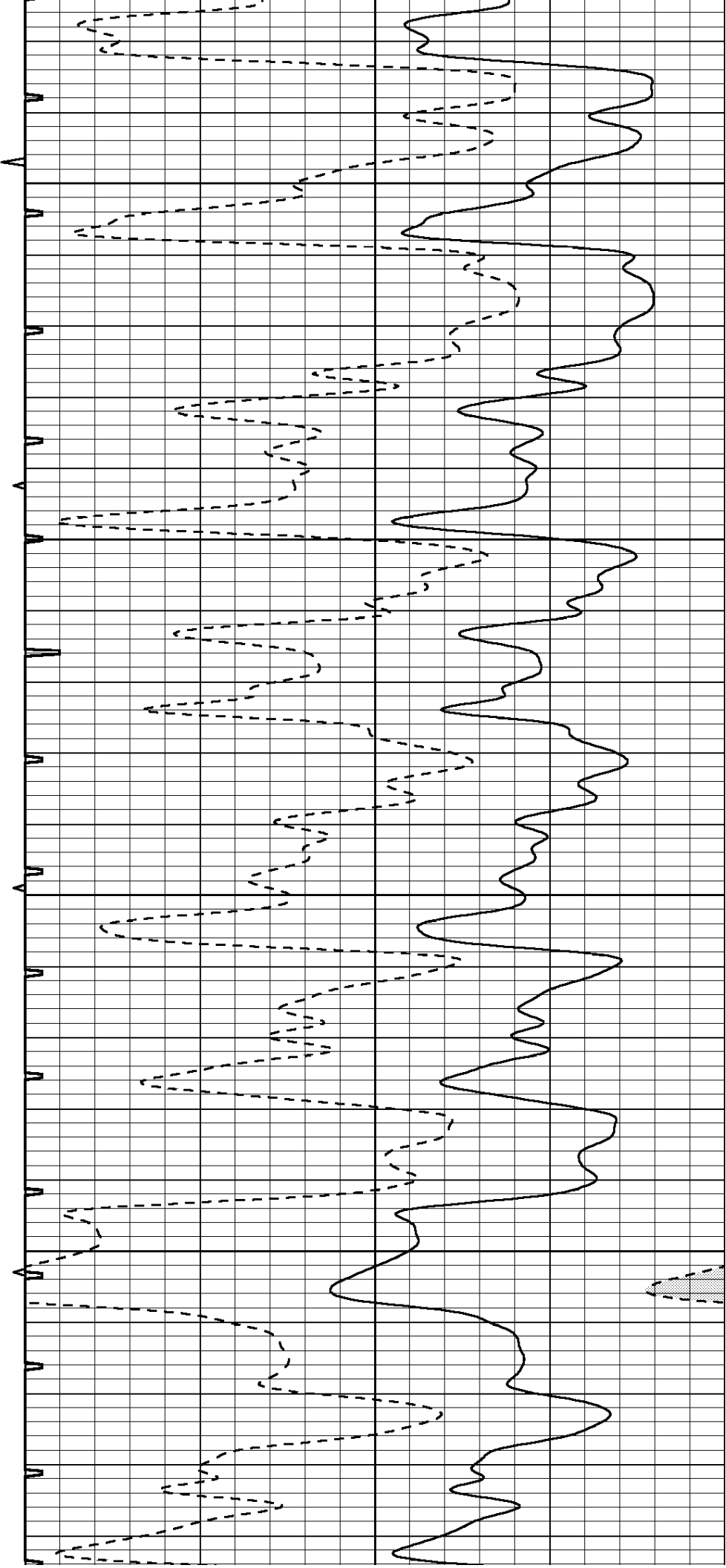


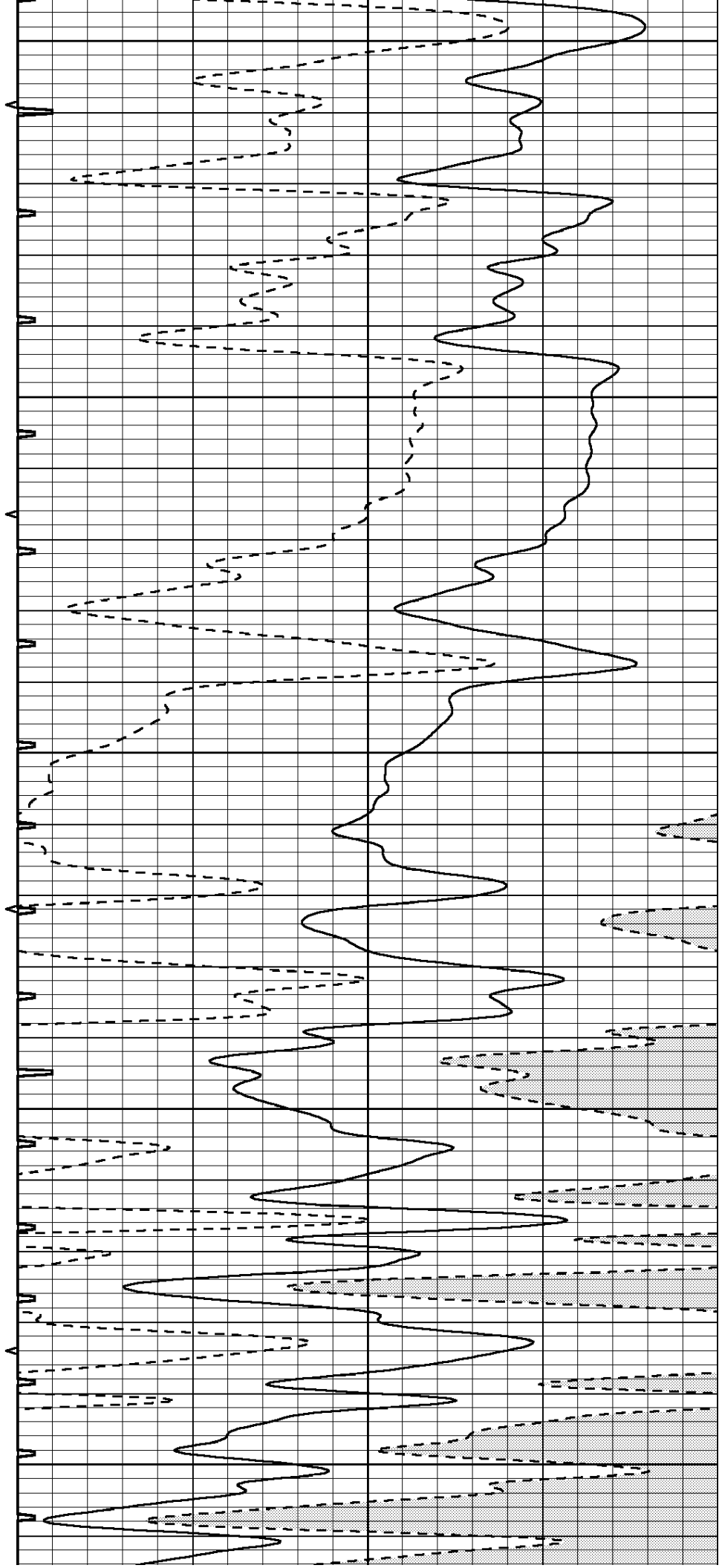
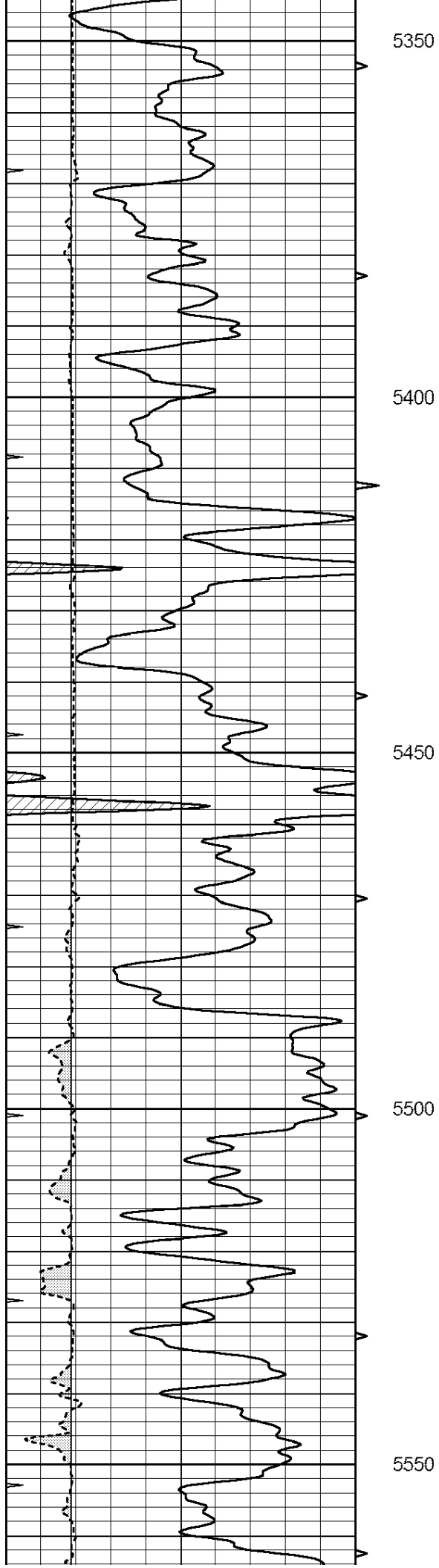
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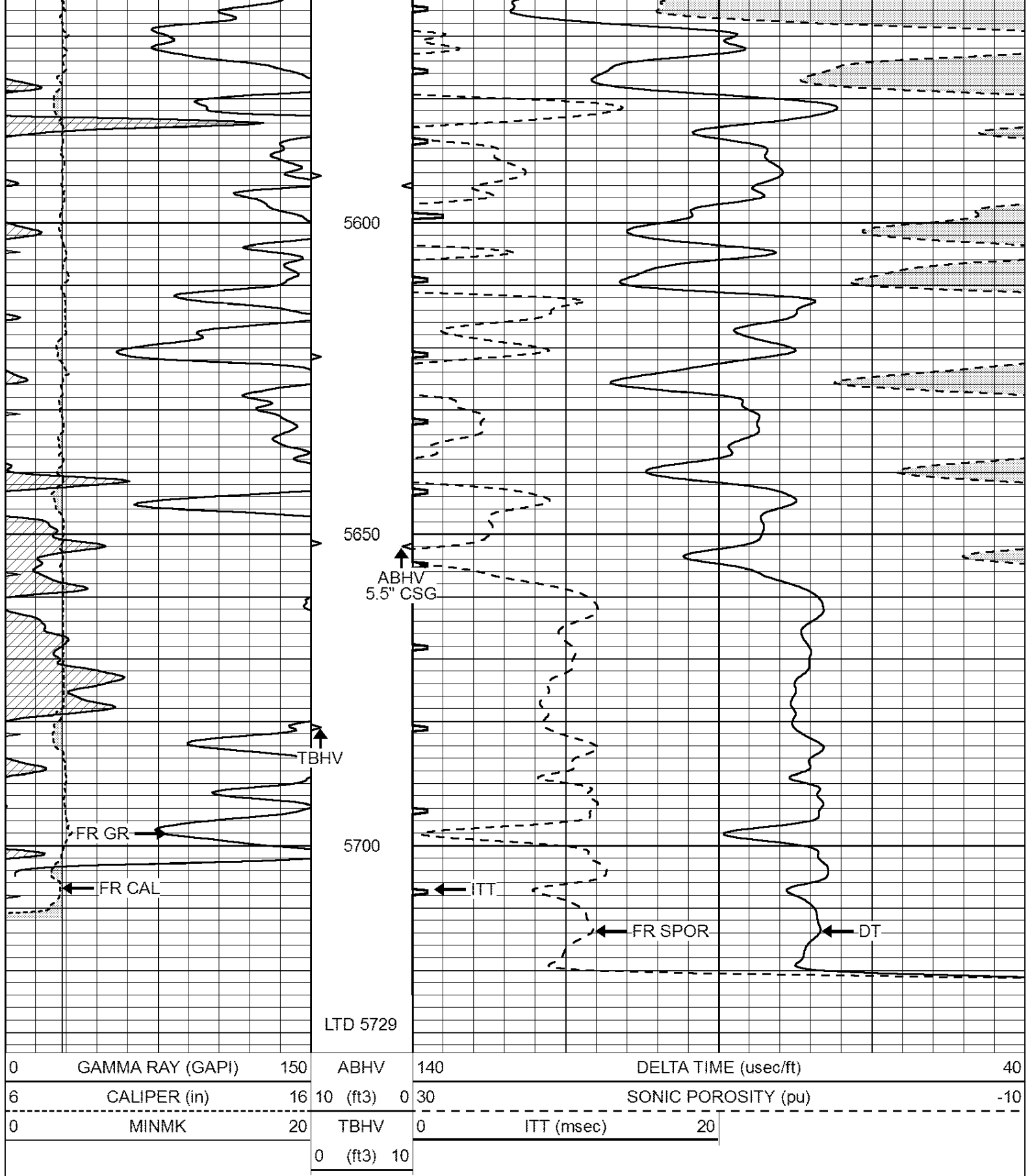
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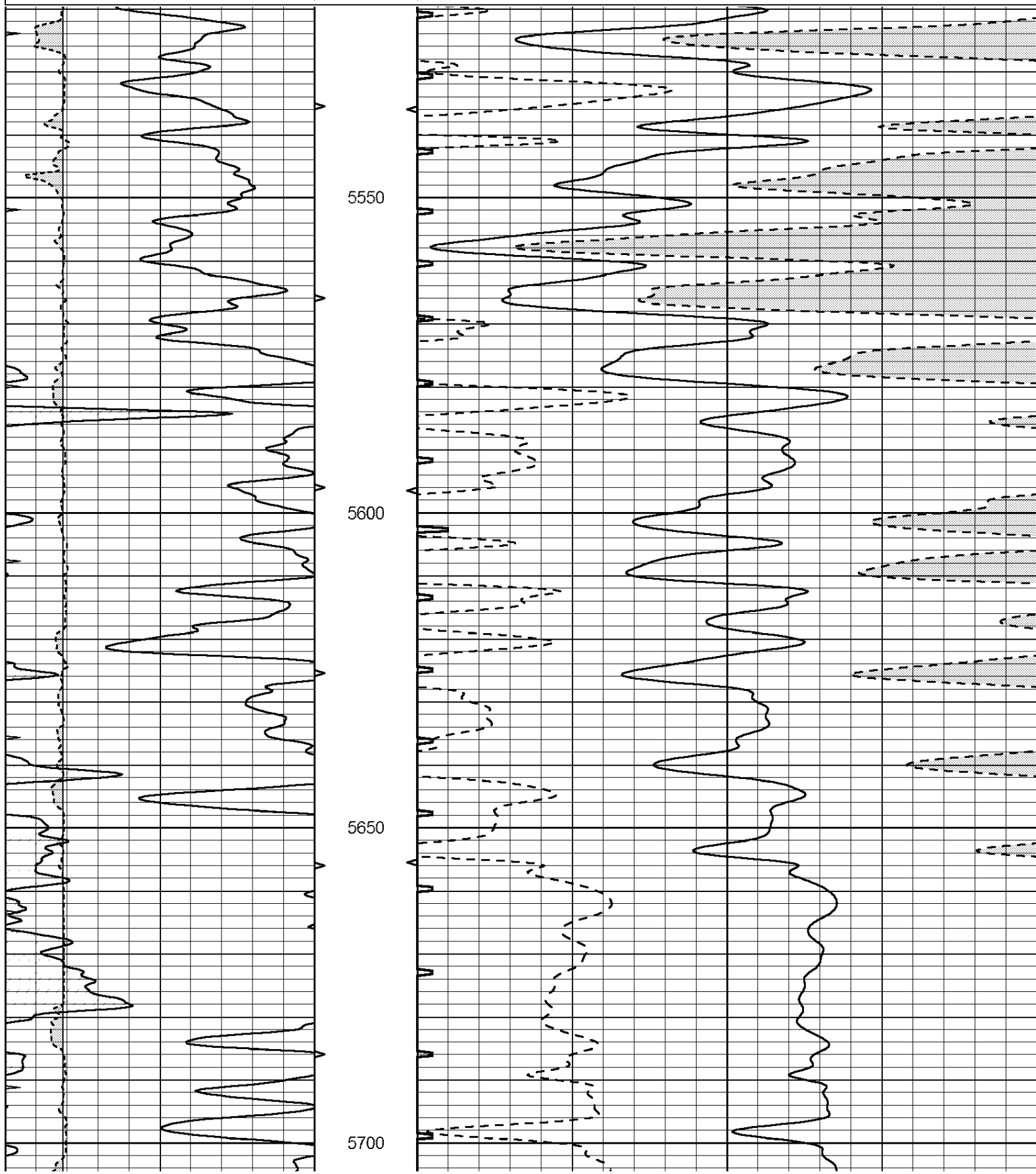


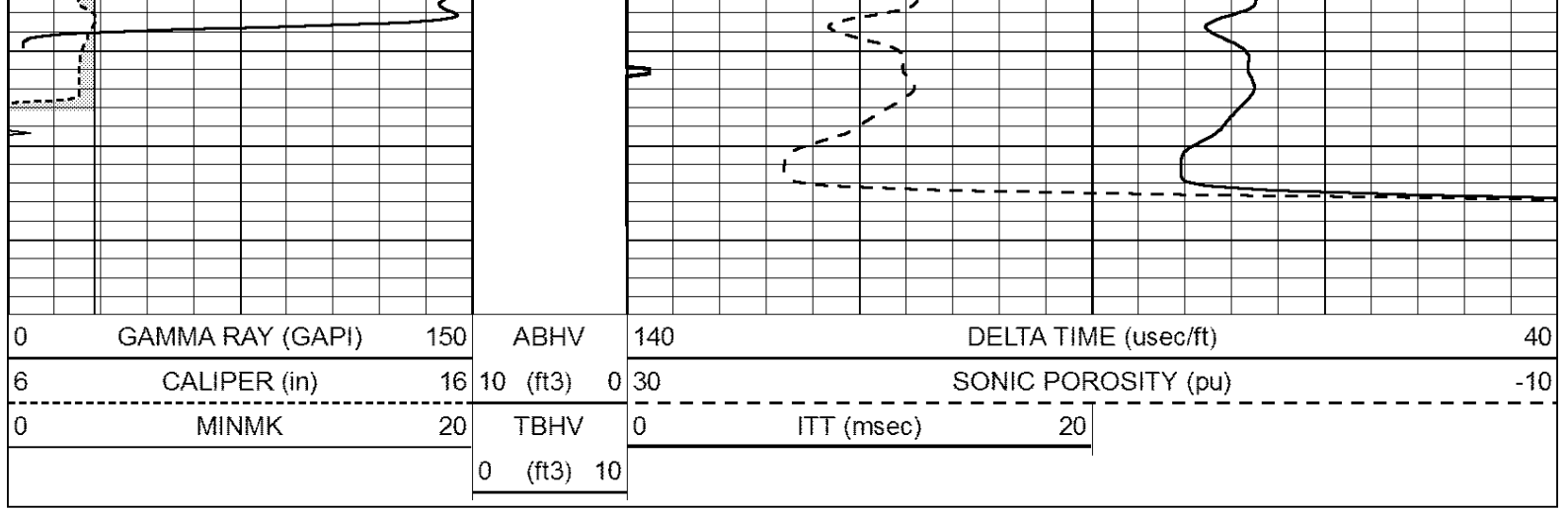
**Casedhole
Solutions**

REPEAT SECTION

Dataset Pathname: pass5.1
Presentation Format: _slt
Dataset Creation: Fri Nov 06 05:51:43 2015 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	CALIPER (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			





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0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			