



Sector Bond, V.D.L.
Gamma-Ray, C.C.L. Log

Pioneer Energy Services

Company Anadarko Petroleum Corp.
Well Brotemarkle 4C-13HZ
Field Wattenberg
County Weld State Colorado

Location: API #: 05123365180000
294' FSL & 1391' FWL
SEC 13 TWP 3N RGE 66W
Permanent Datum GL Elevation 5024'
Log Measured From KB
Drilling Measured From KB
Other Services None
Elevation K.B. 5040'
D.F. 5041'
G.L. 5024'

Company Anadarko Petroleum Corp.
Well Brotemarkle 4C-13HZ
Field Wattenberg
County Weld
State Colorado

Date

Run Number 4-8-14
Depth Driller ONE
Depth Logger 12100'
Bottom Logged Interval 7070'
Top Log Interval 7070'
Open Hole Size SURFACE
Type Fluid 8.75"
Density / Viscosity WATER
Max. Recorded Temp. NA
Estimated Cement Top 203
Time Well Ready 86'
Time Logger on Bottom ROA
Equipment Number PM
Location 41
Recorded By FORT MORGAN
Witnessed By JOHN HOLLIS
MR. RICK DUNFORD

Run Number
Bit From To Size Weight From To
Borehole Record
Casing Record
Surface String Size Wgt/Ft Top Bottom
9 5/8" 36# SURFACE 1312'
Prot. String
Production String 7" 26# SURFACE 7959'
Liner 4 1/2" 11.6# 7000' 12100'

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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.

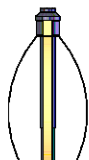
Comments

S.O. # 2-260016

CORRECTED TO LINER TOP AT 7000'

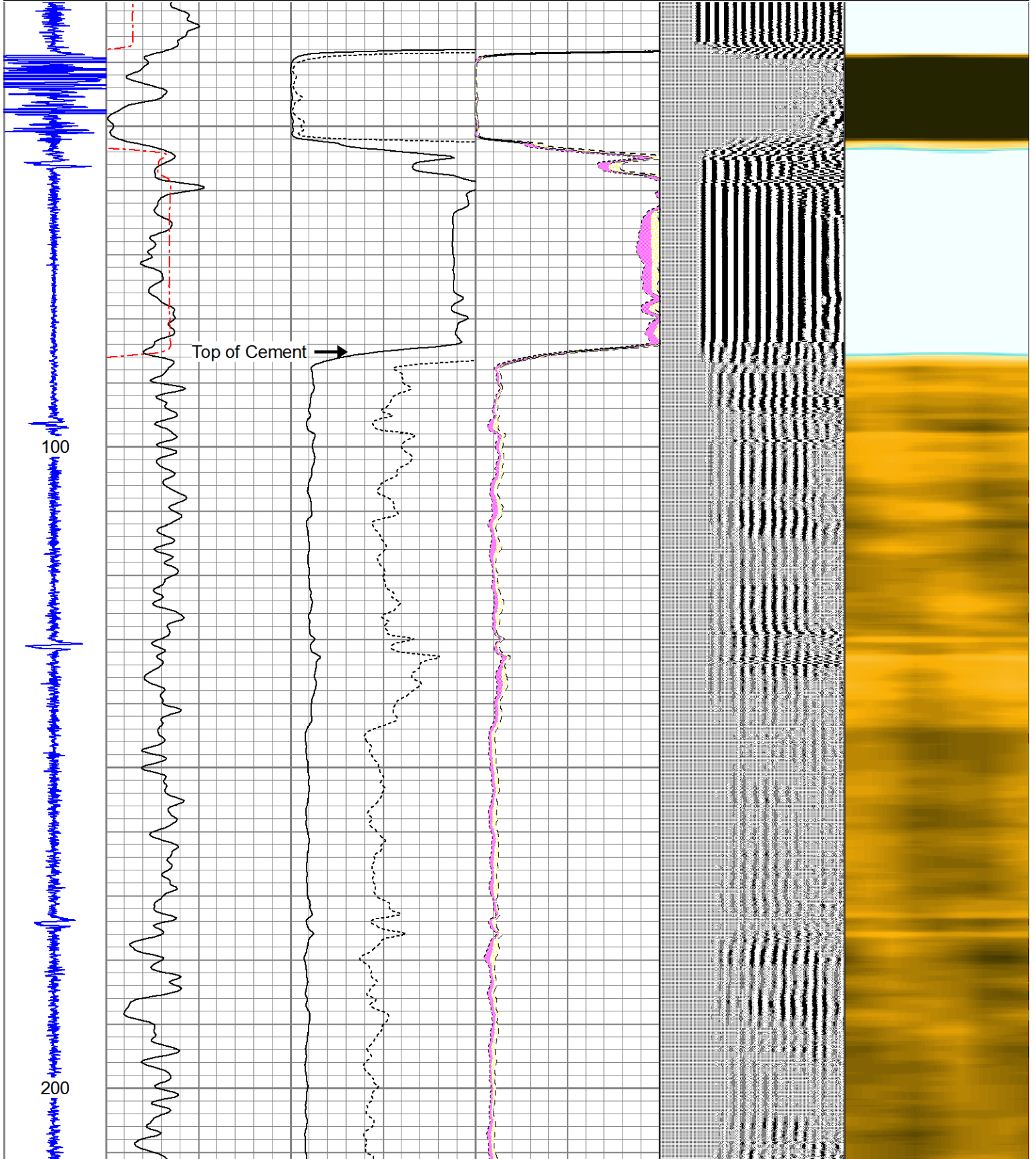
N
W X O O E
S

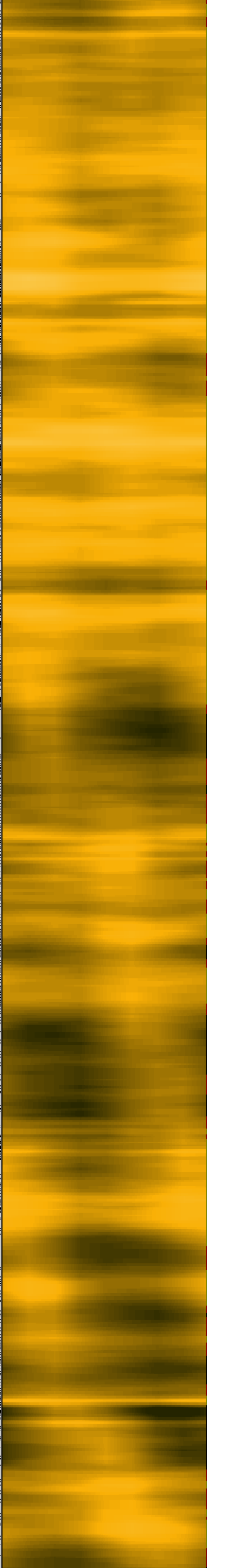
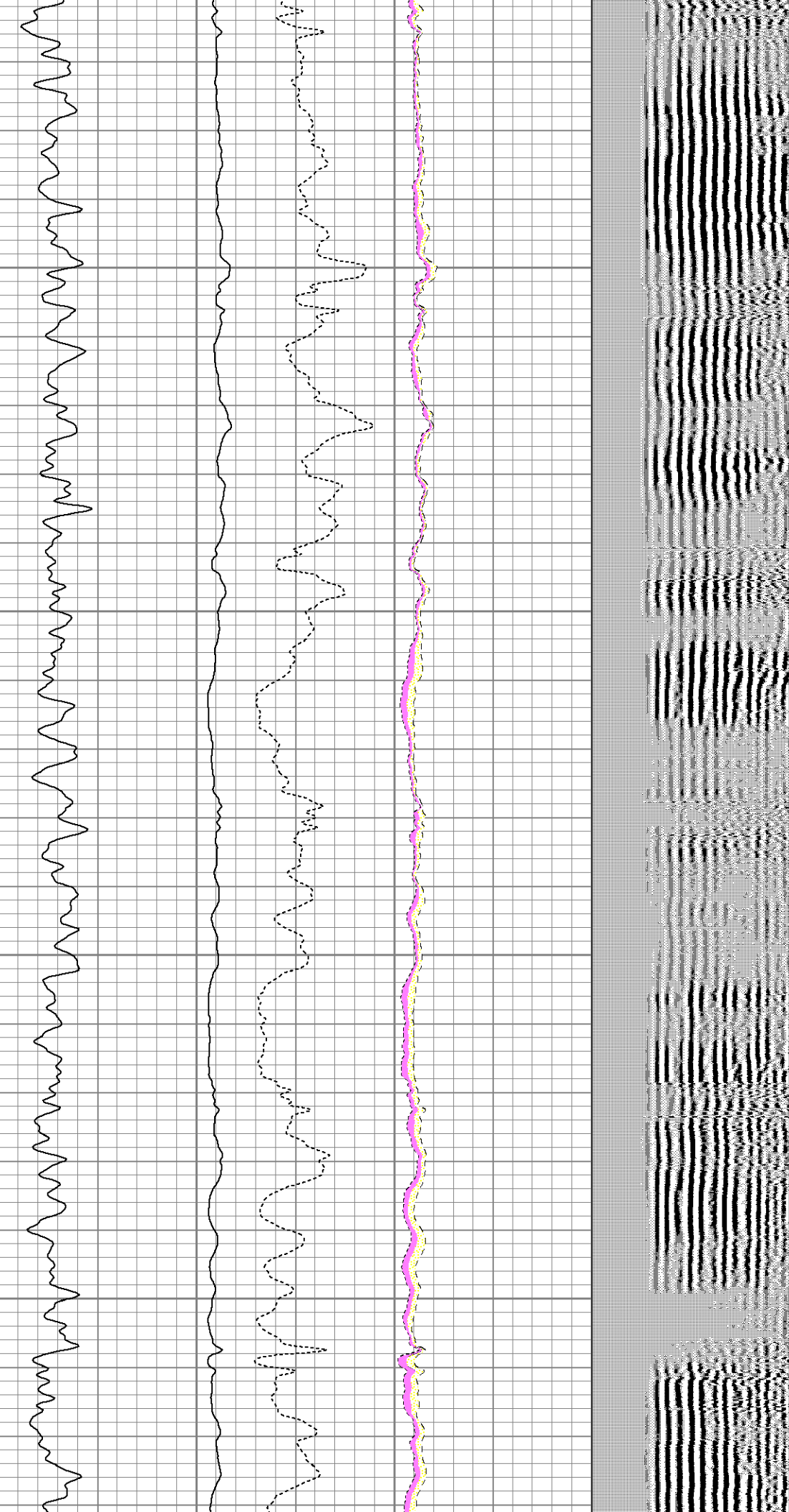
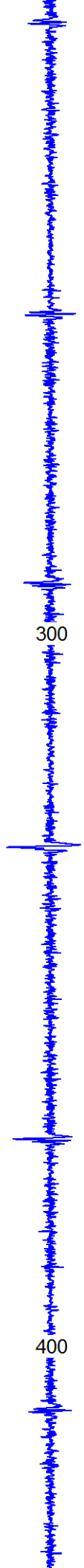
WCR 32 & WCR 35, E 1 MILE, N 1/10, NW 2/10, SW 1/10, S 400' INTO
THANK YOU FOR USING PIONEER ENERGY SERVICES

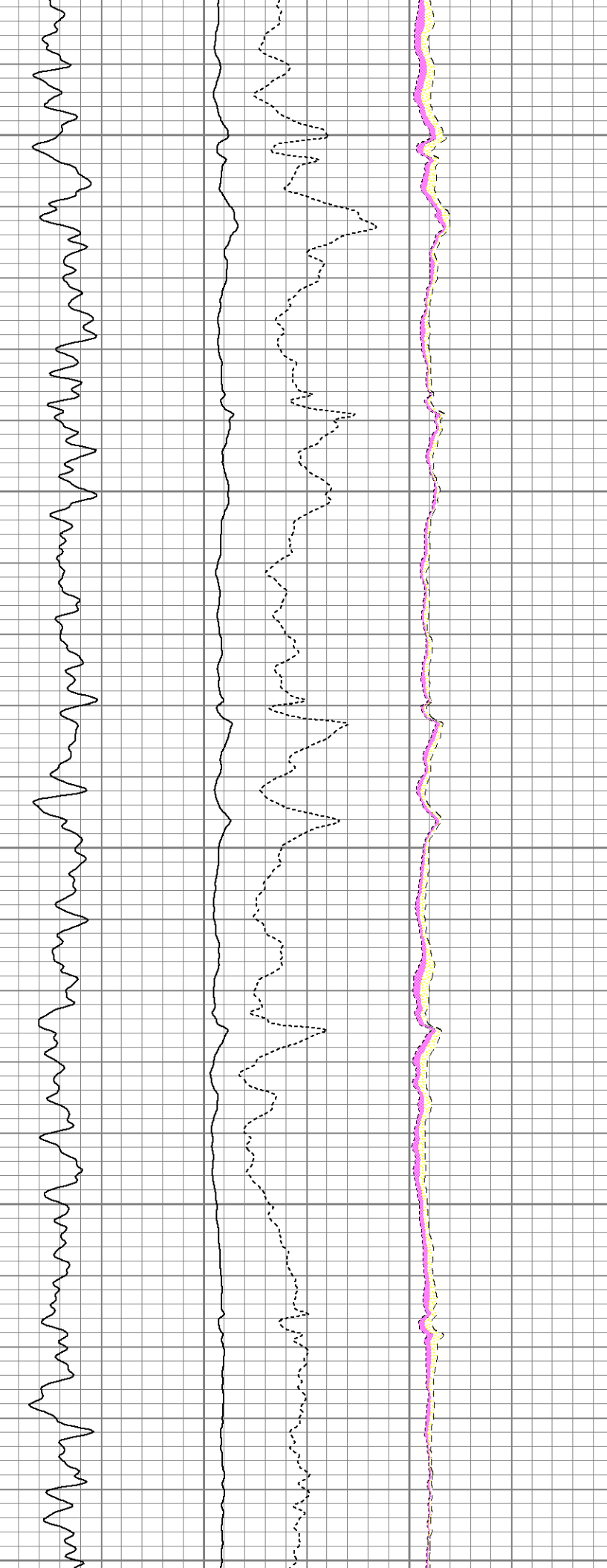
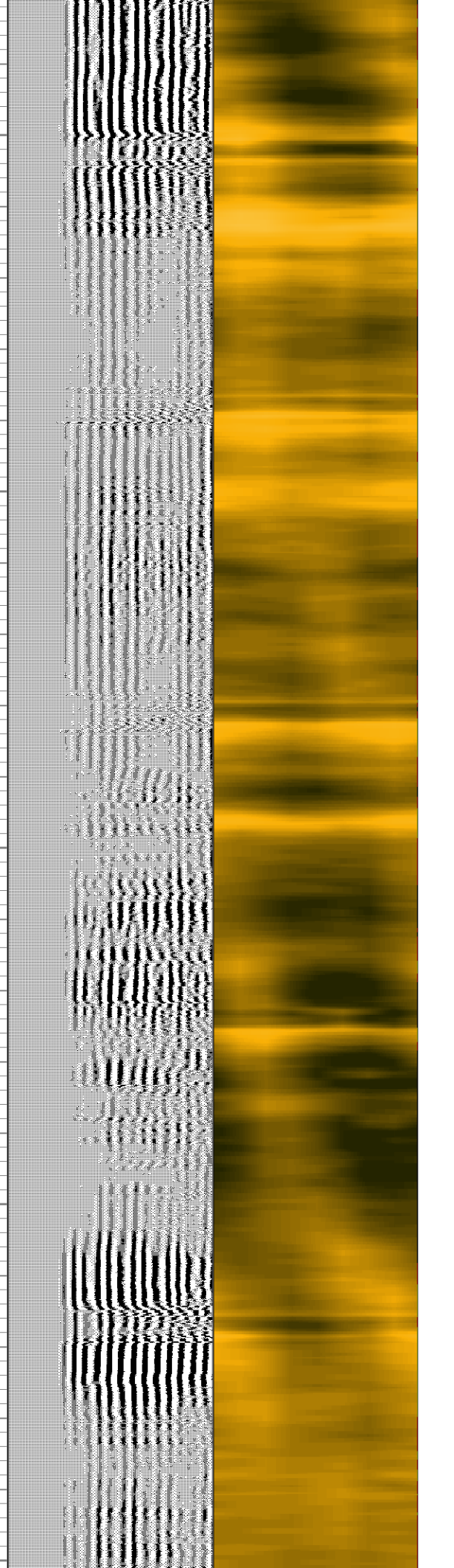
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	

Database File: brotemarkle_4c_13hz_05123365180000_rbl.db
 Dataset Pathname: pass4
 Presentation Format: scbl02
 Dataset Creation: Tue Apr 08 13:40:42 2014 by Log 7.0 B1
 Charted by: Depth in Feet scaled 1:240

-5	CCL	5	0	GR (GAPI)	200	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
				TT3FT		0	AMPx5 (mV)	20	0	AMPMAX	150				5		100
				326 (usec)	226				0	AMPMIN	150						





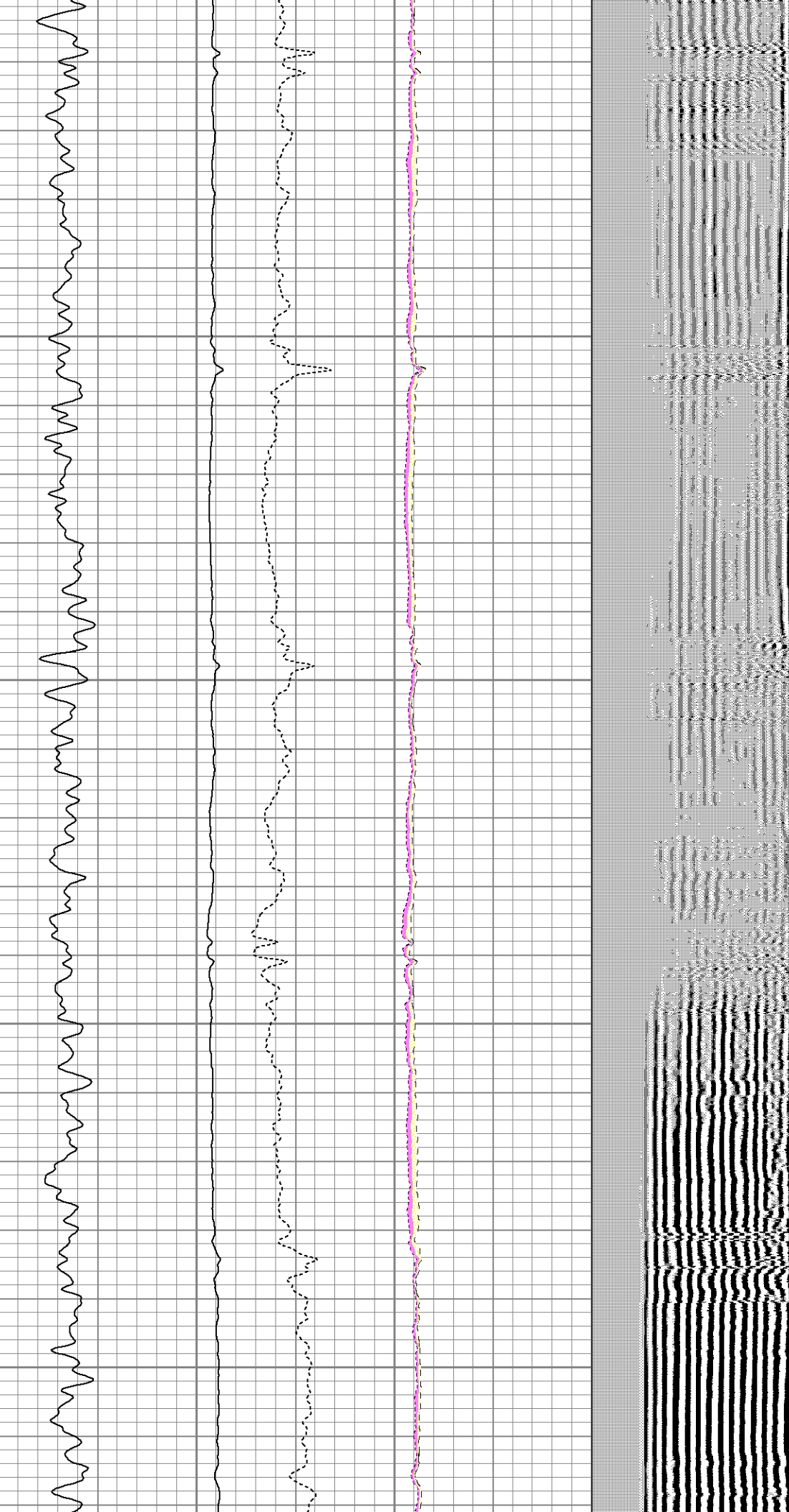


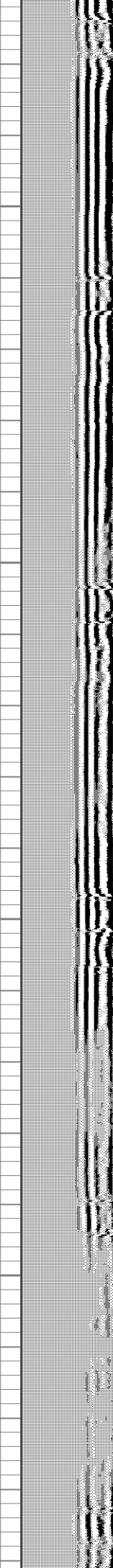
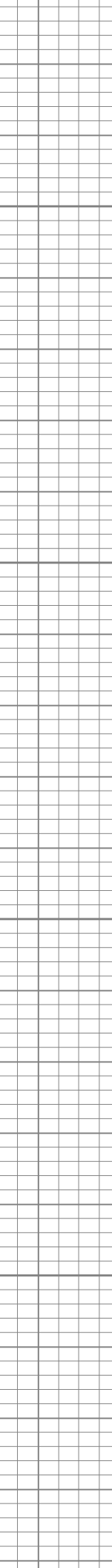
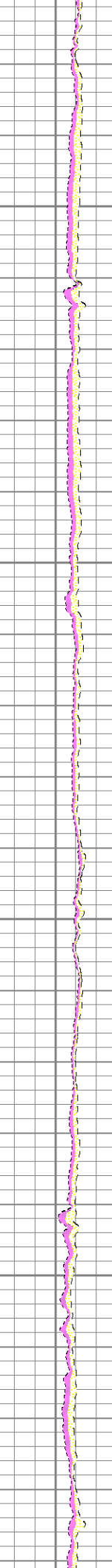
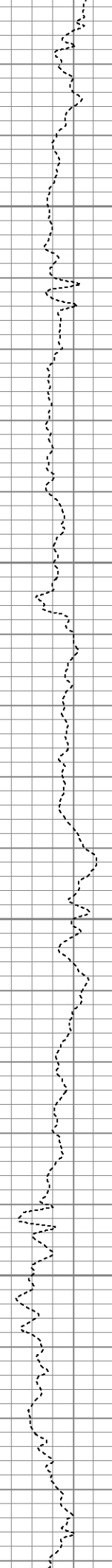
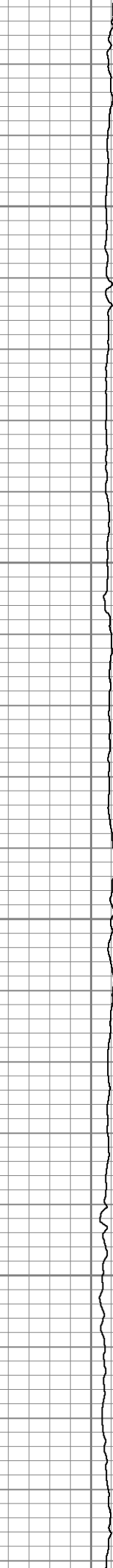
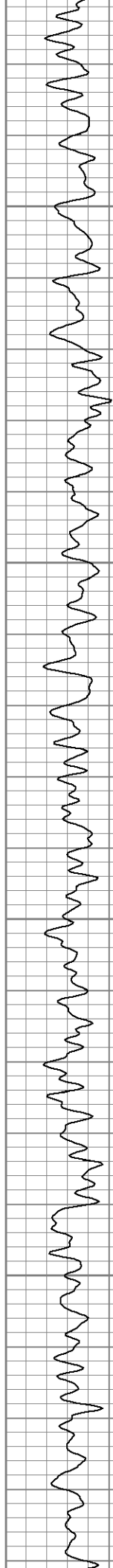
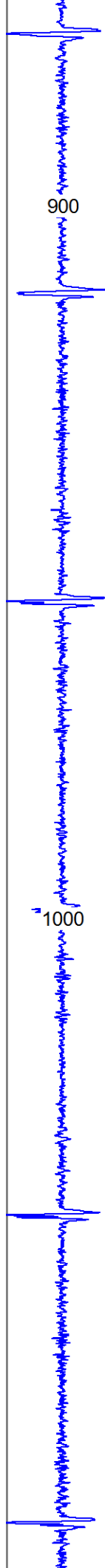
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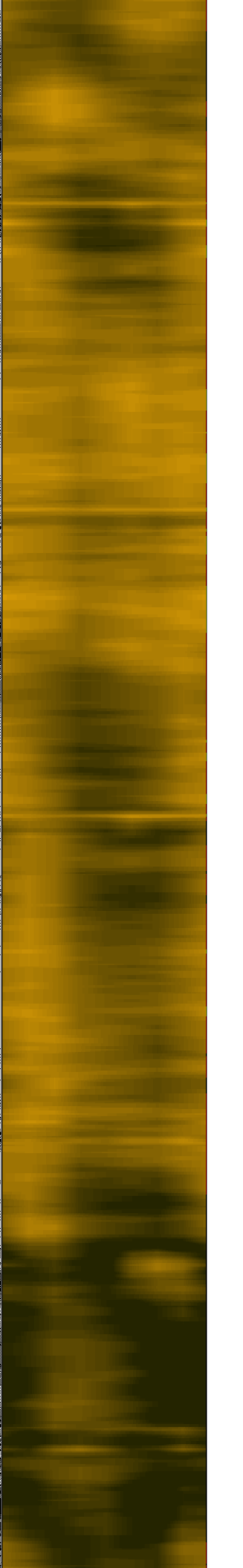
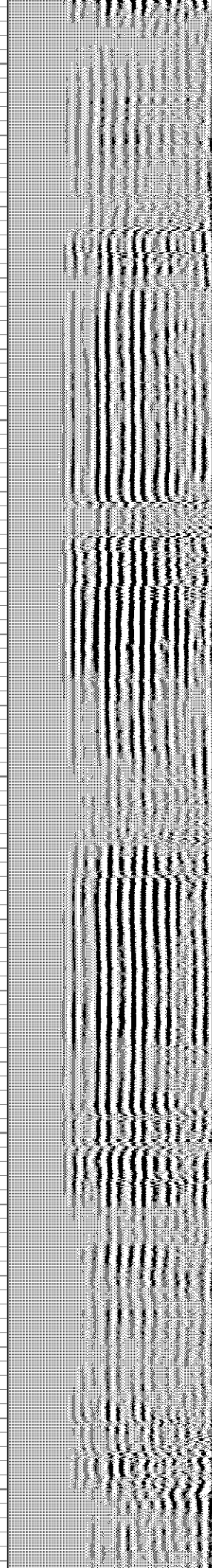
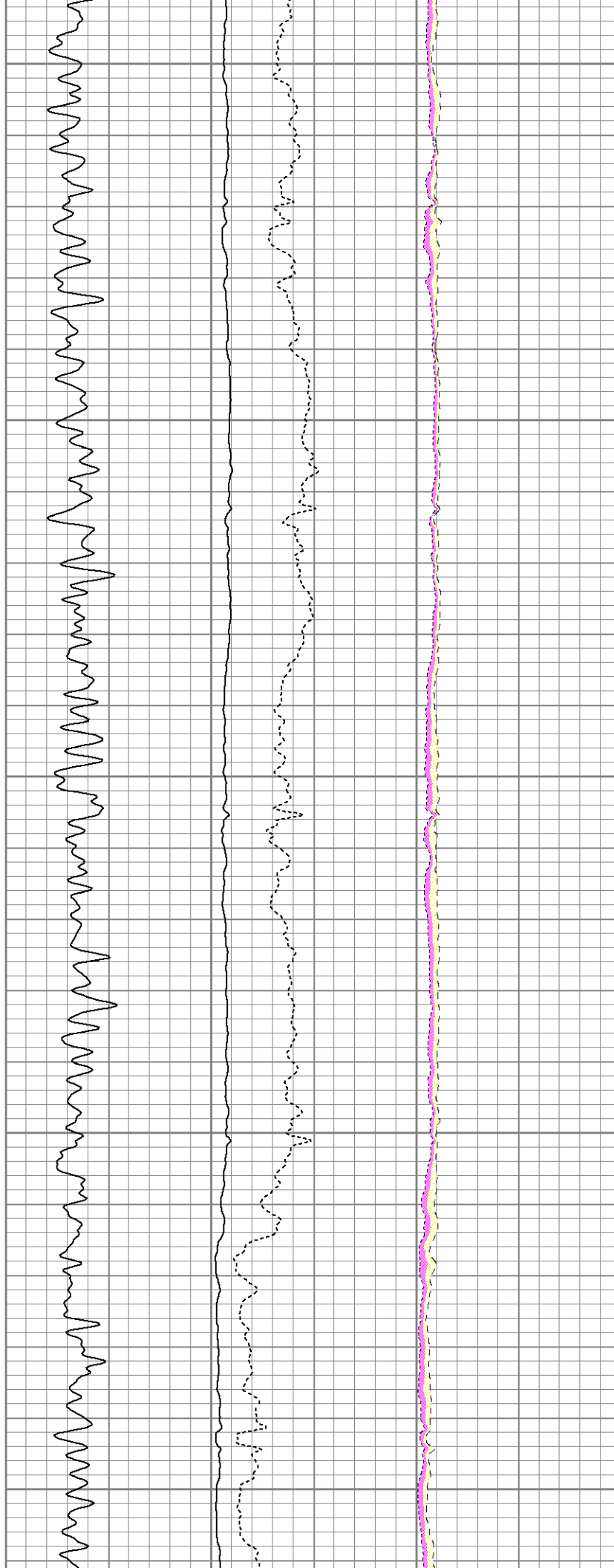
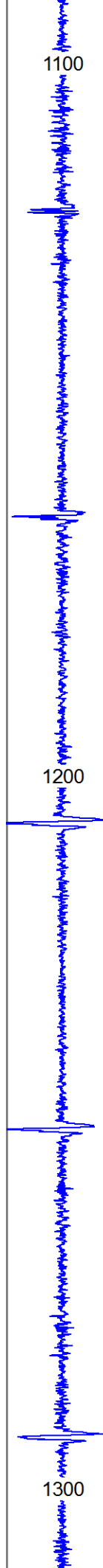
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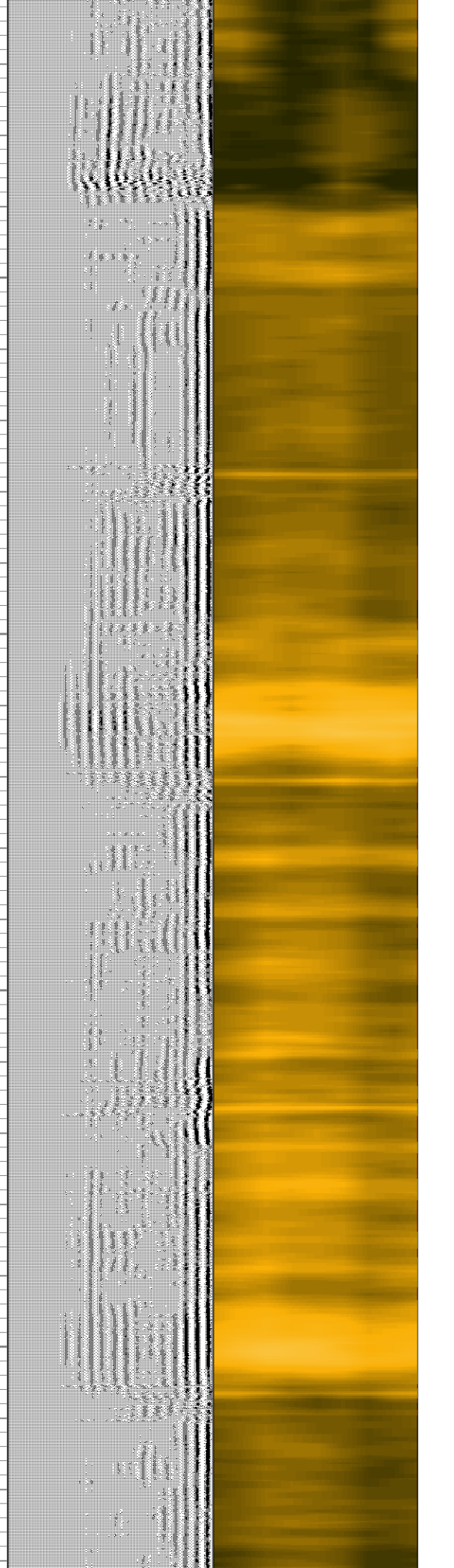
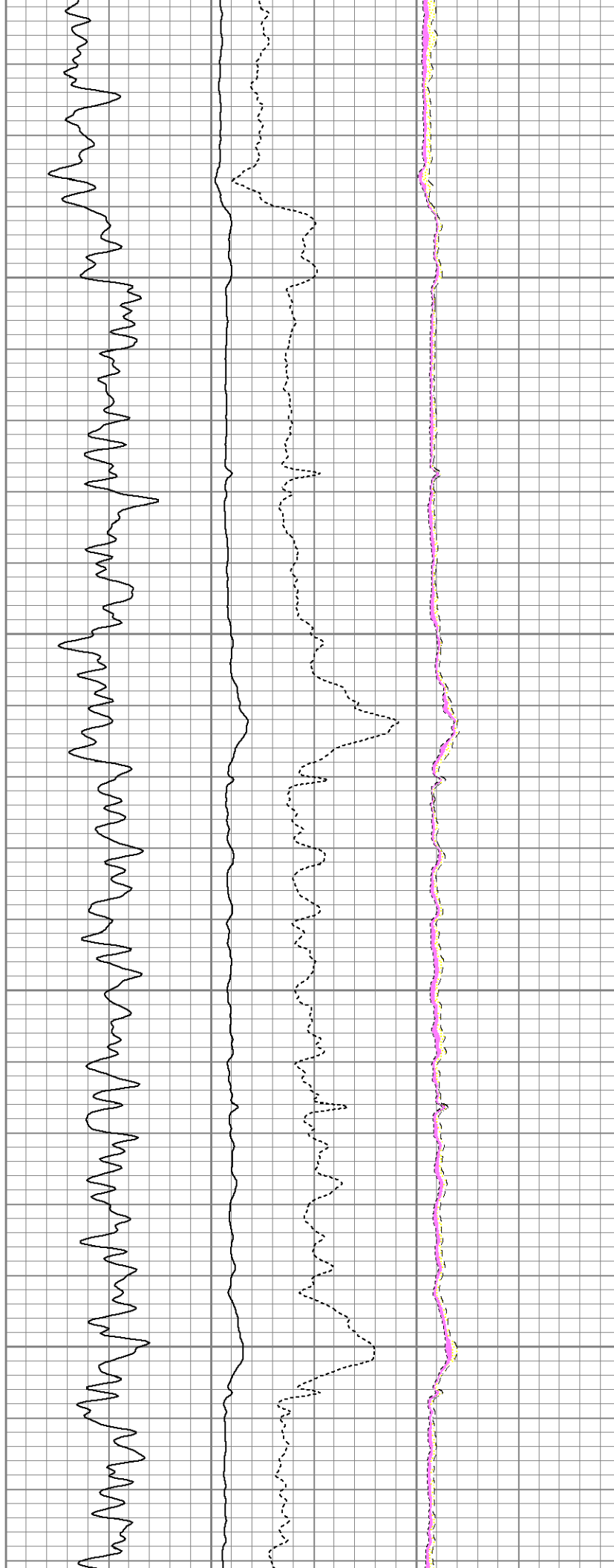
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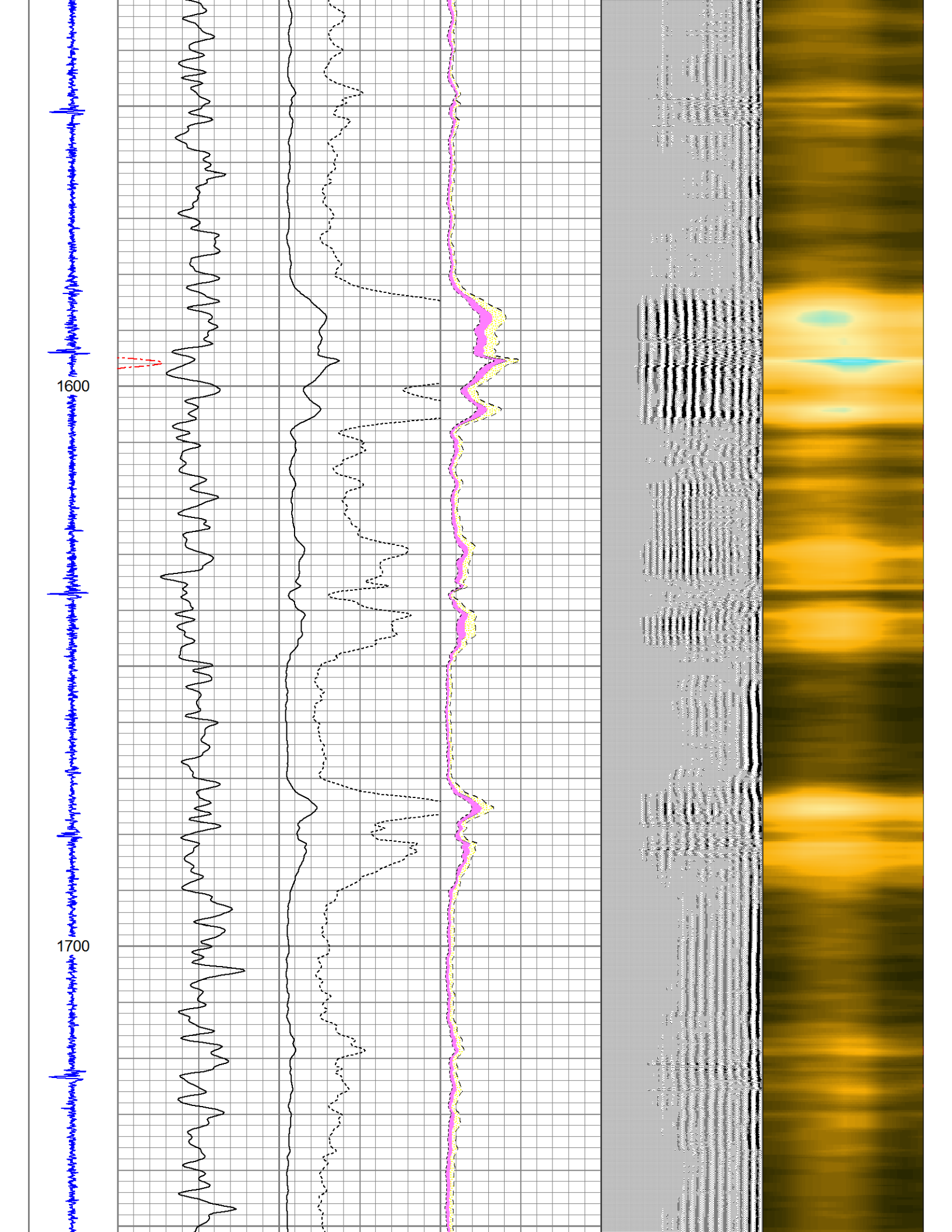
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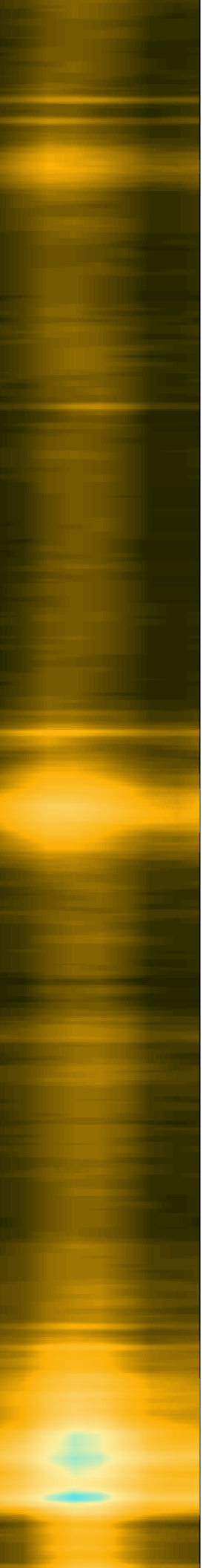
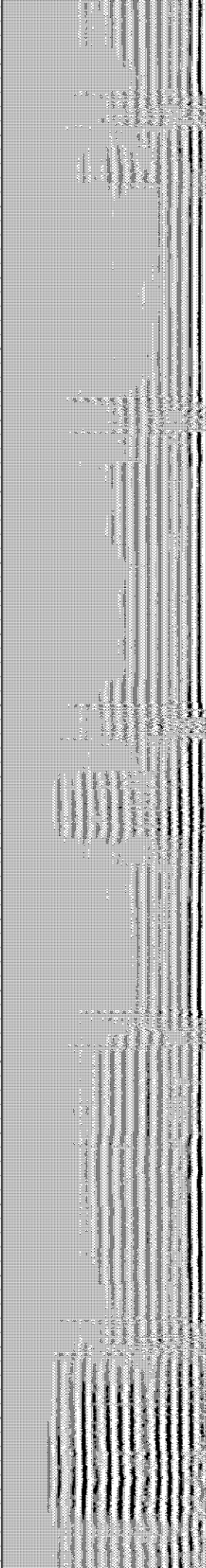
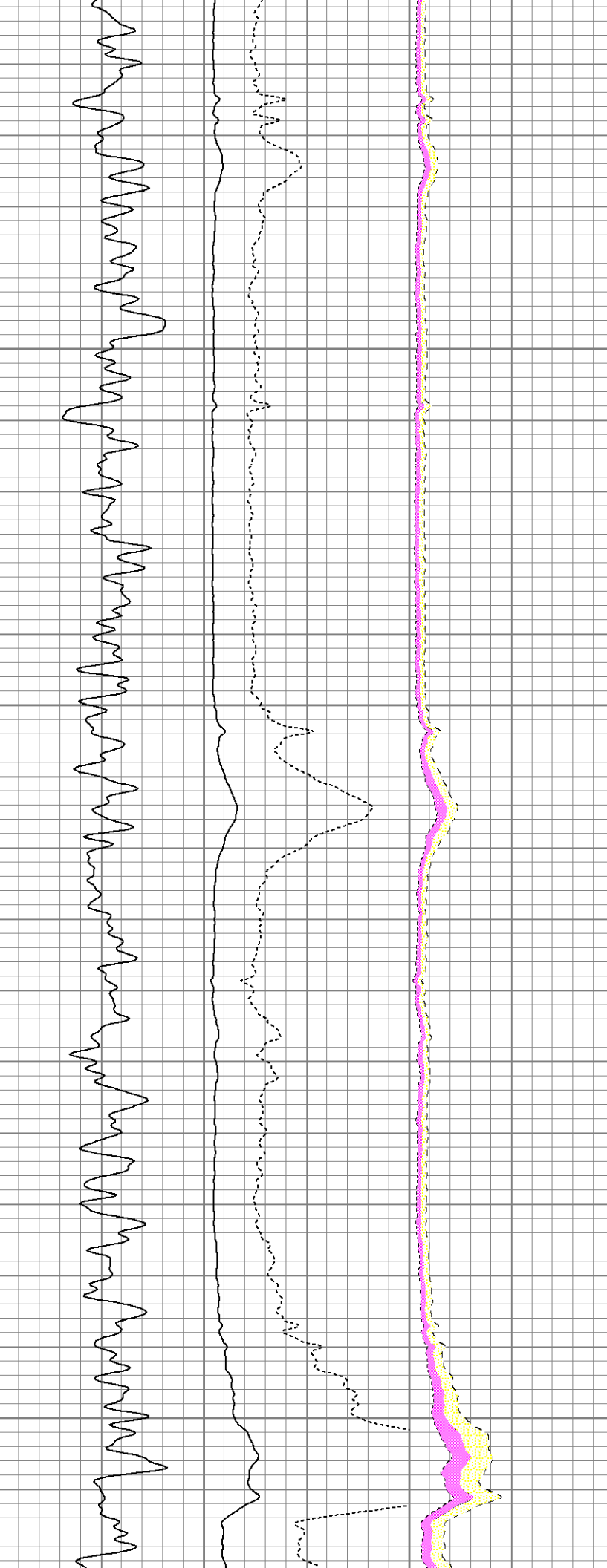


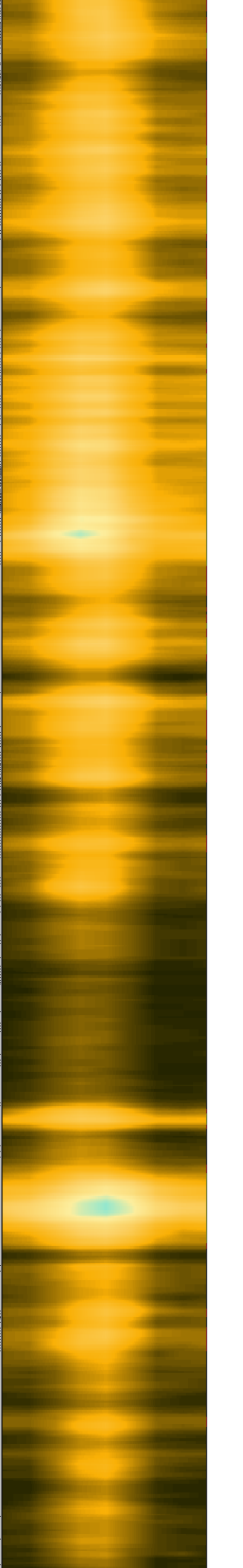
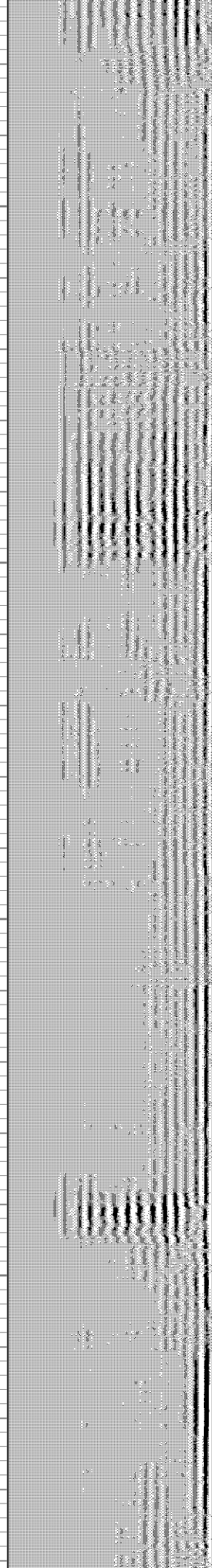
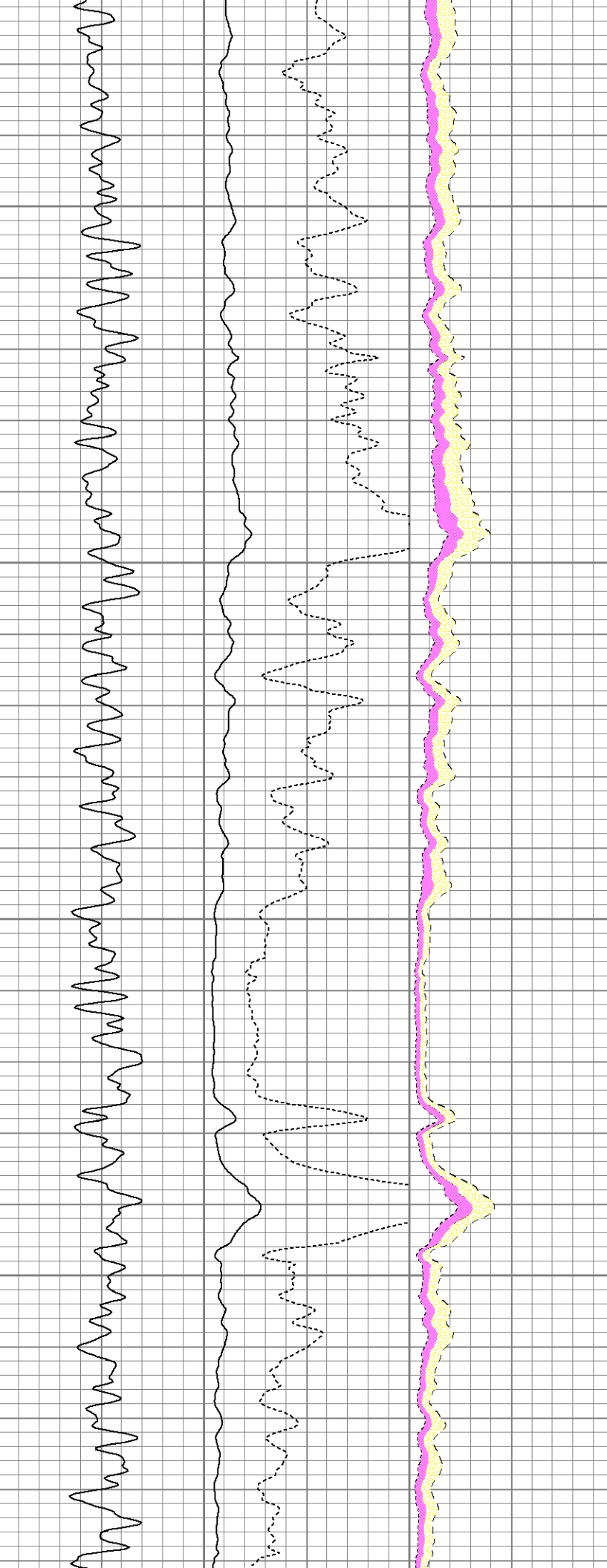
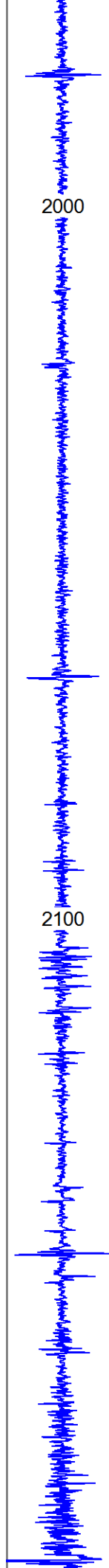


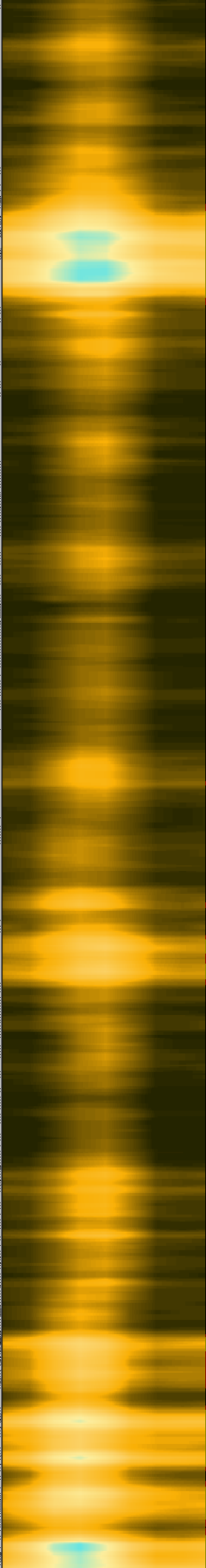
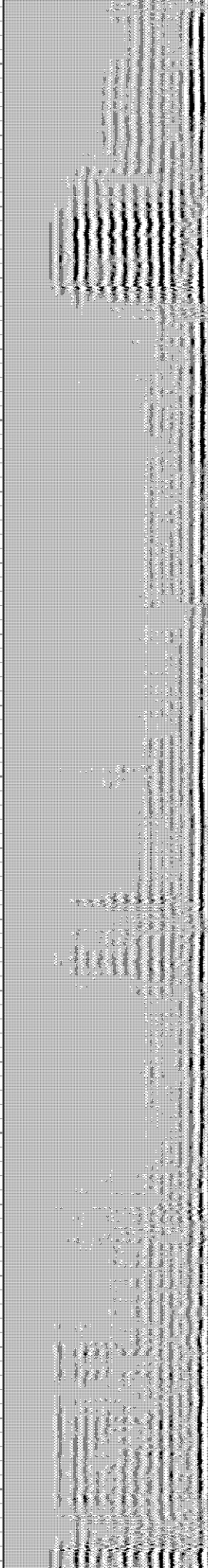
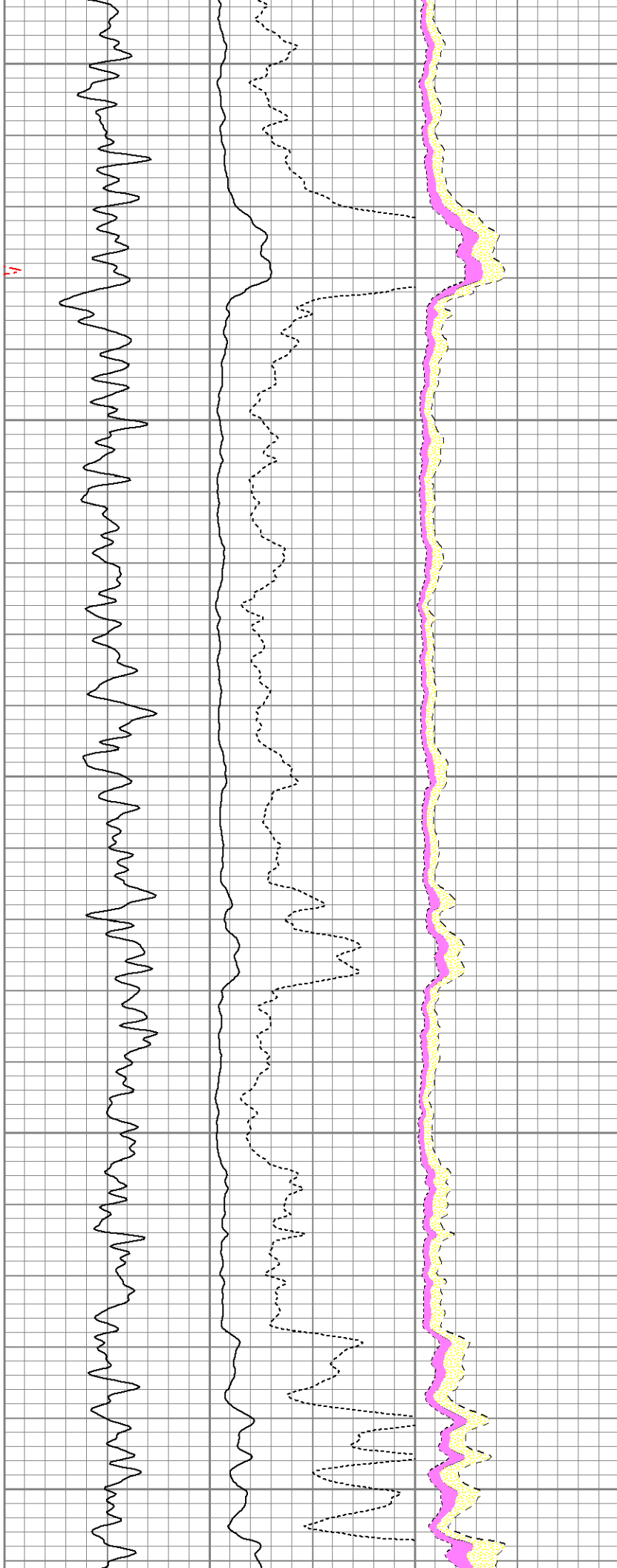
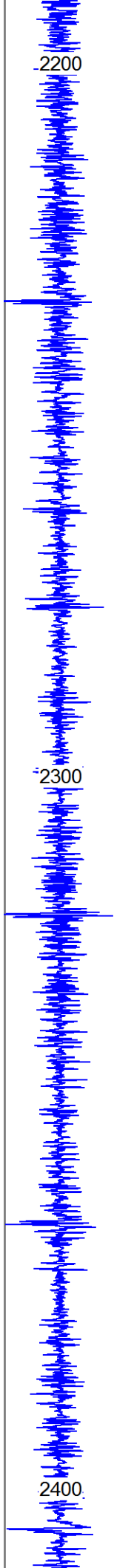


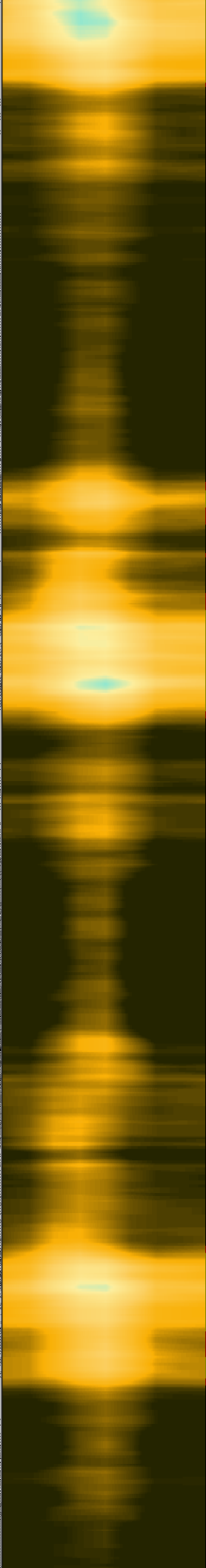
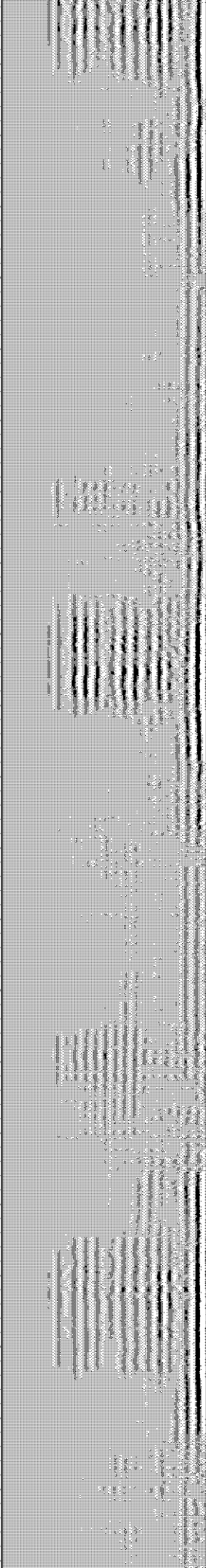
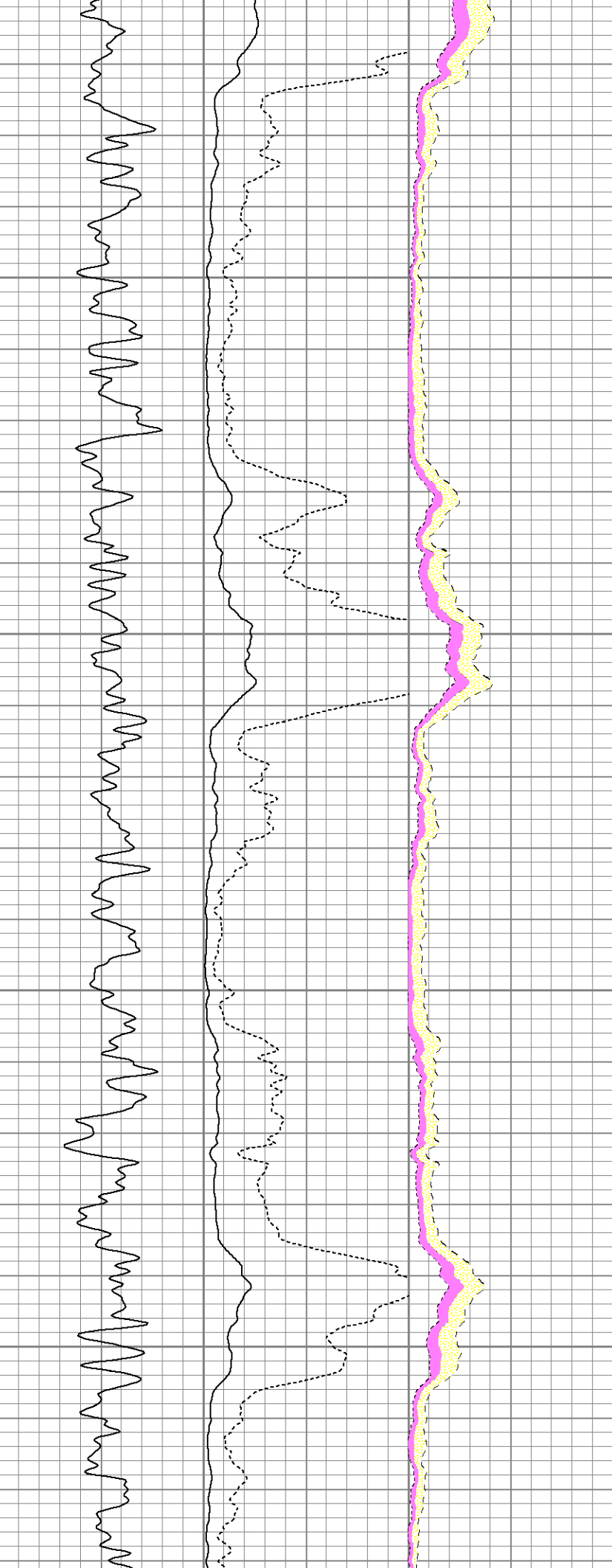
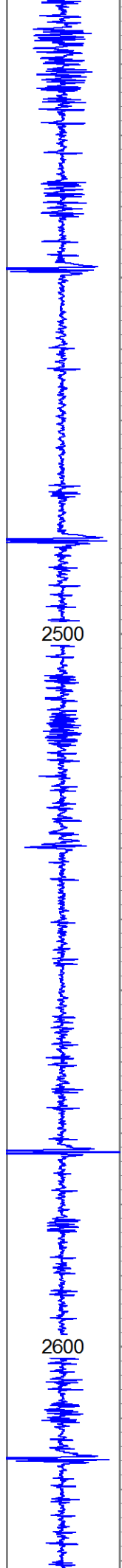


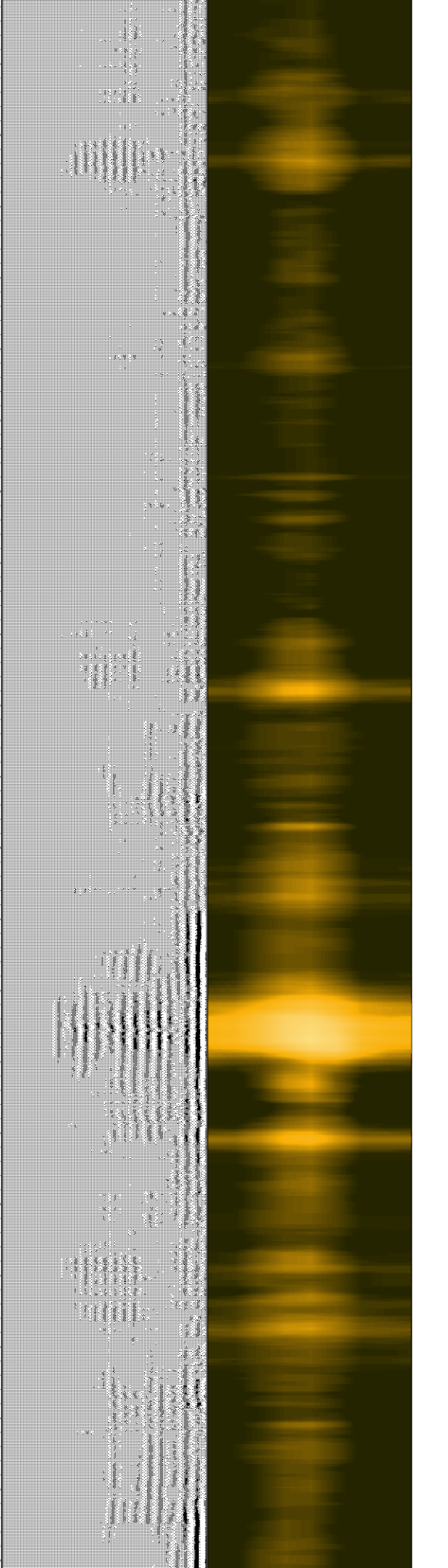
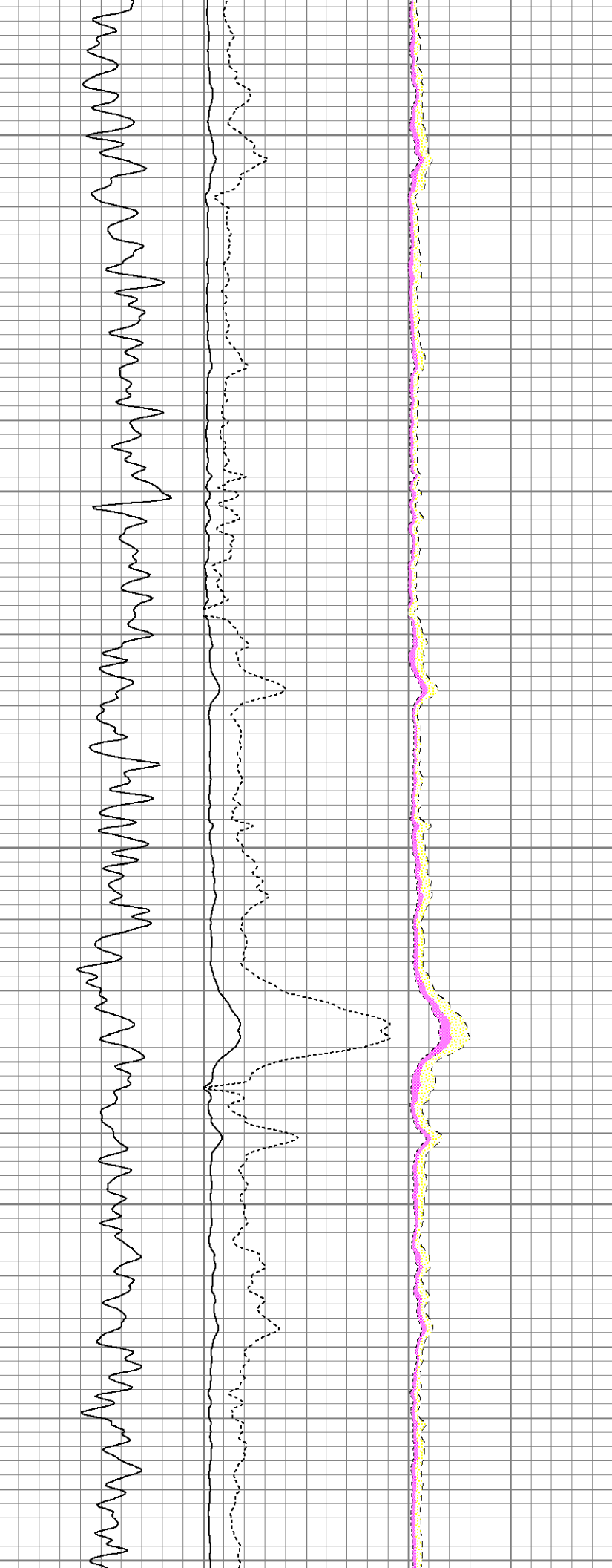
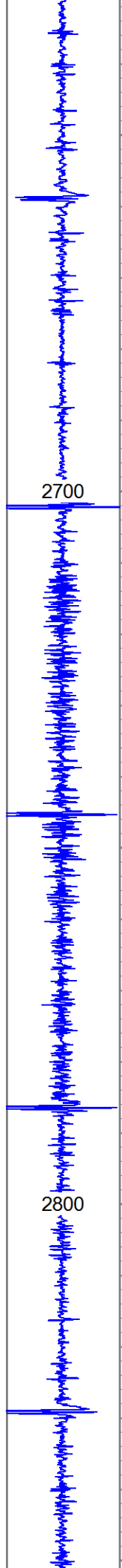


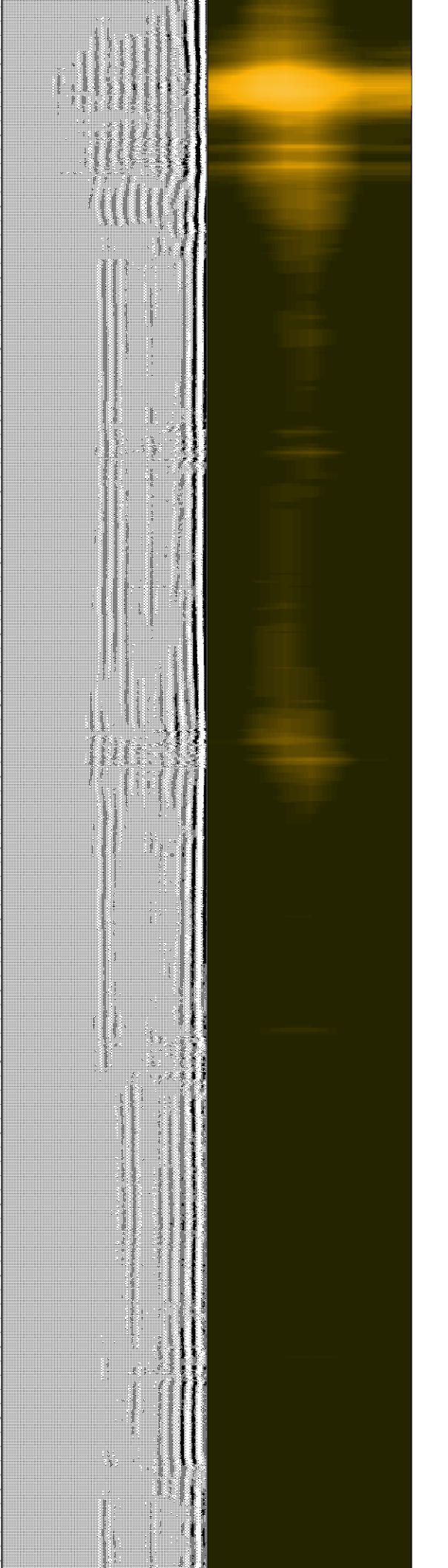
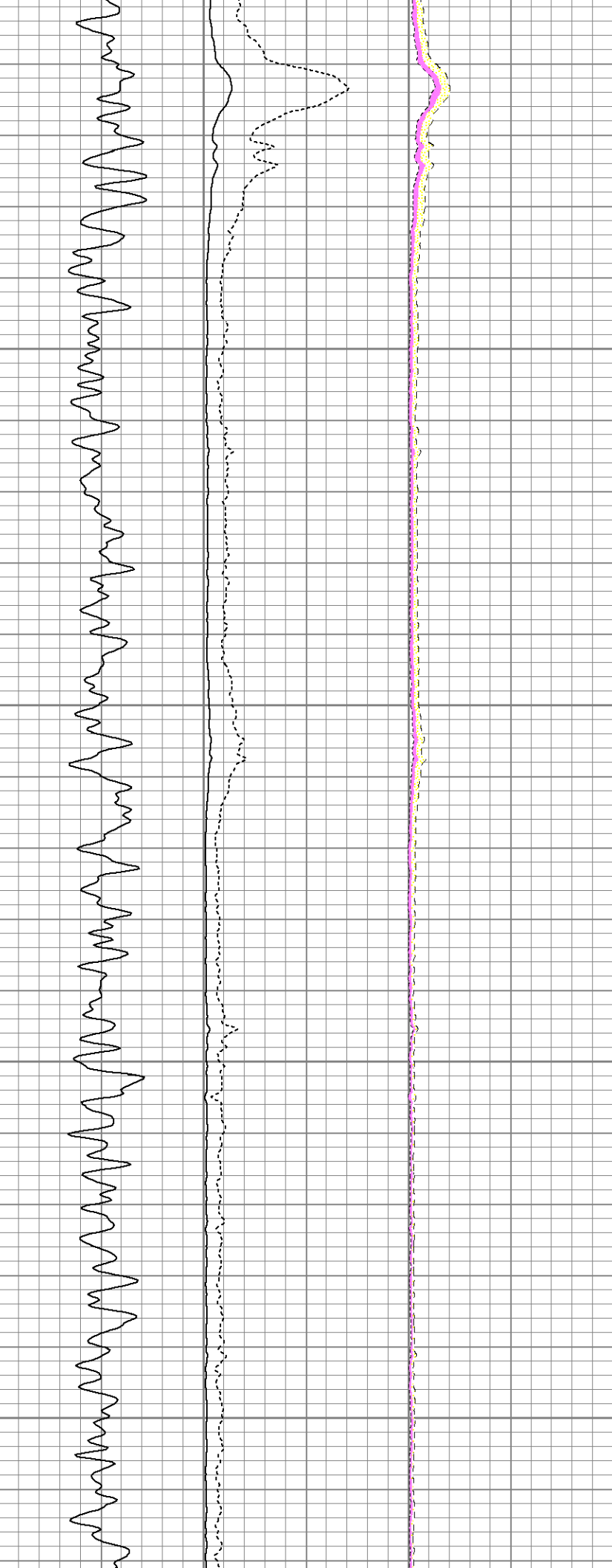
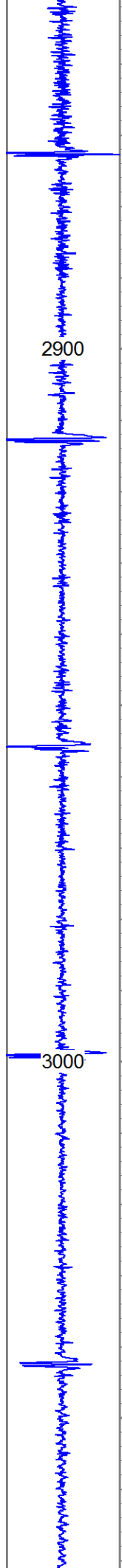


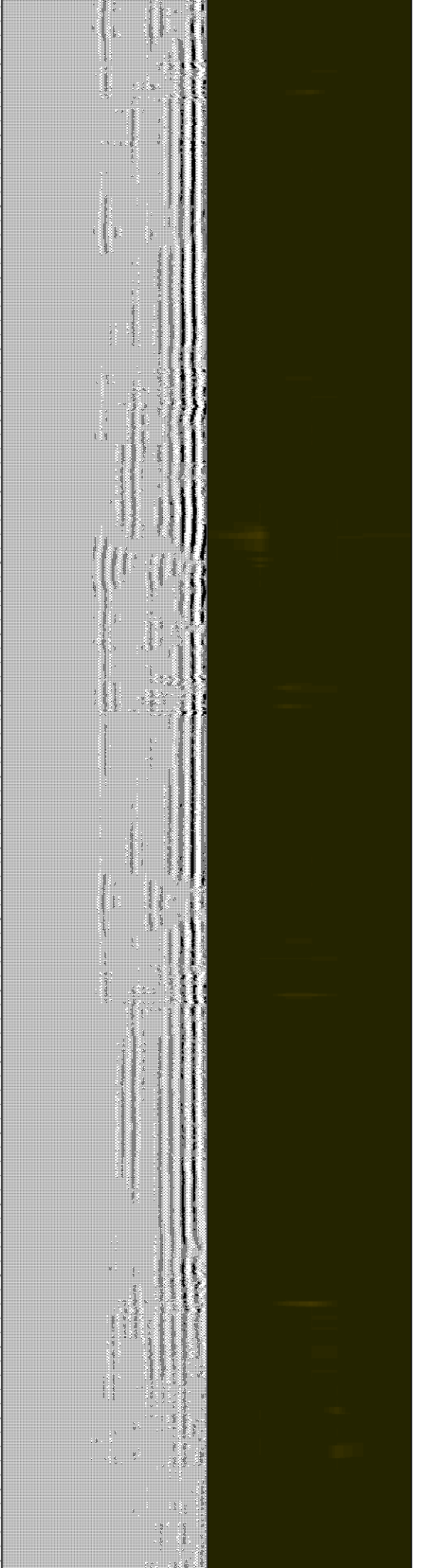
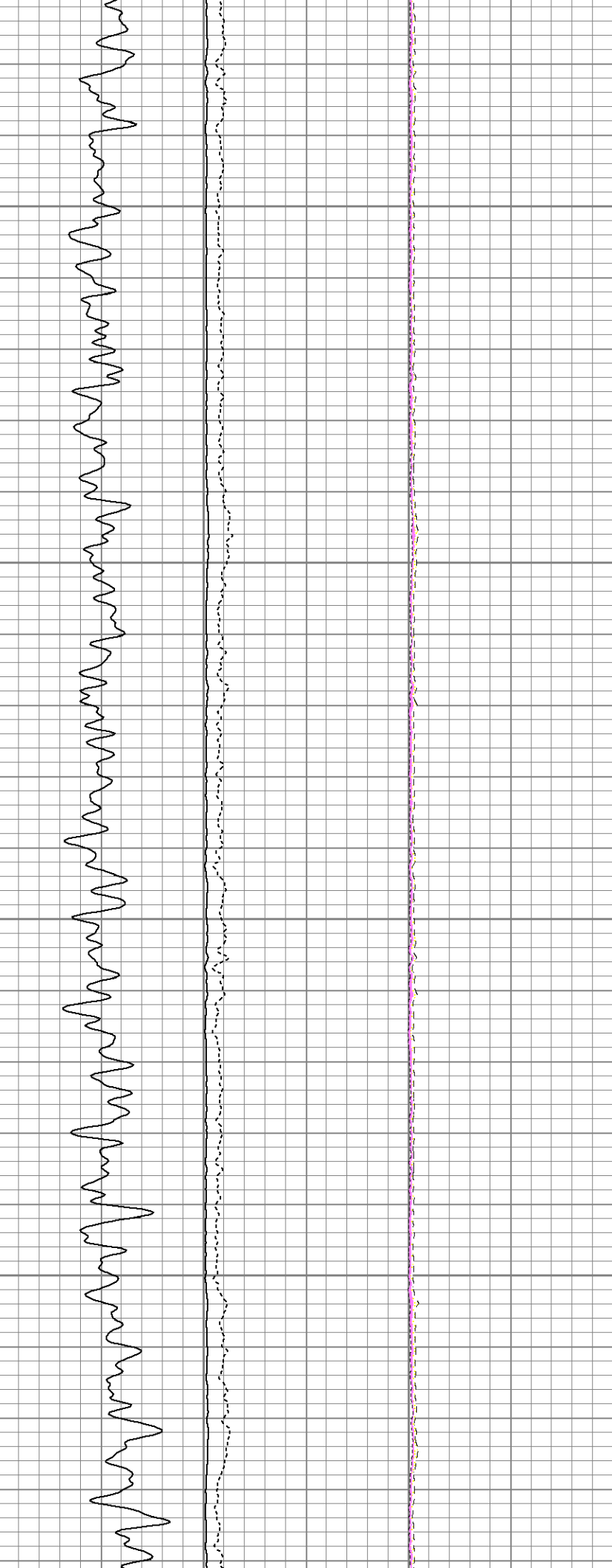
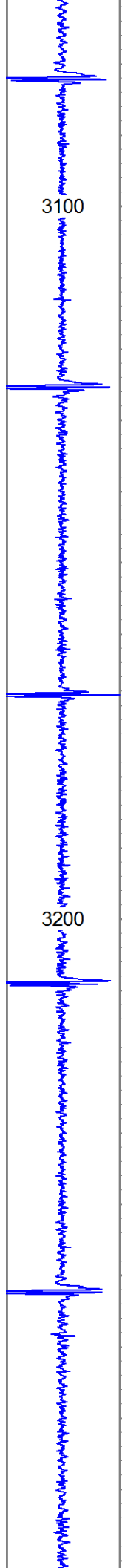


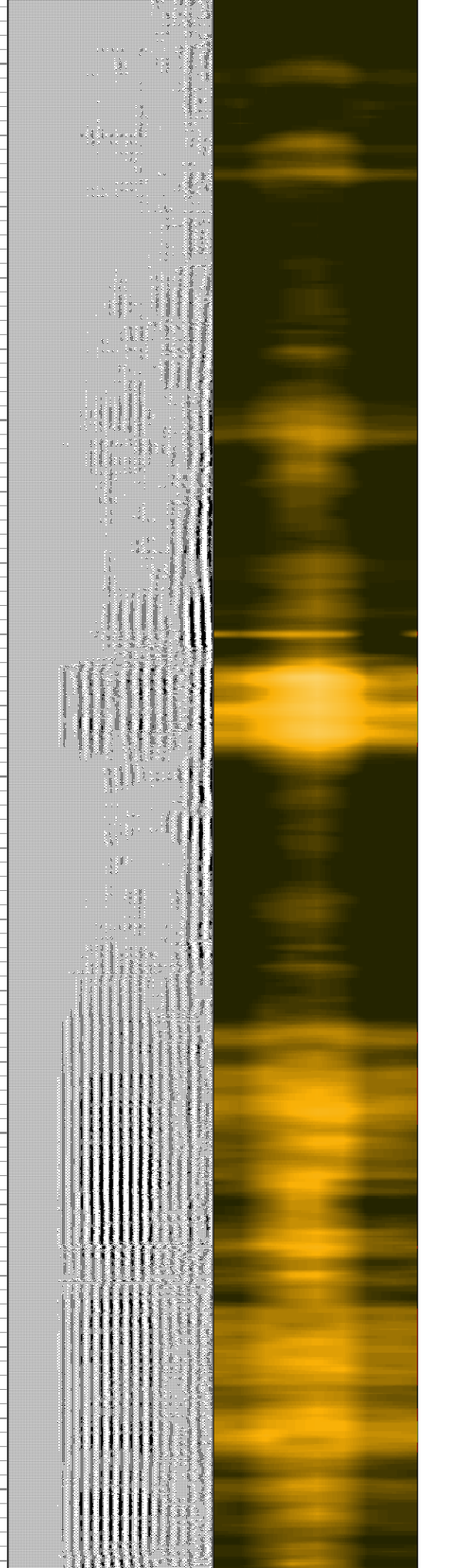
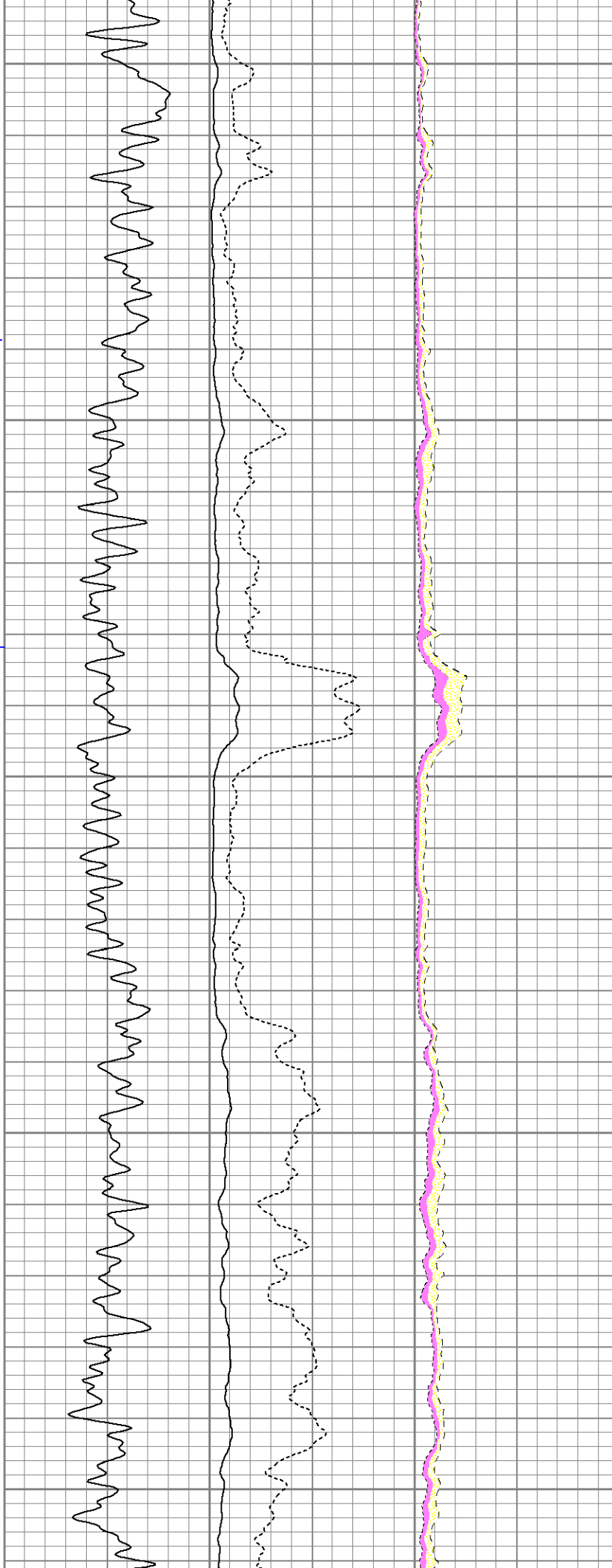
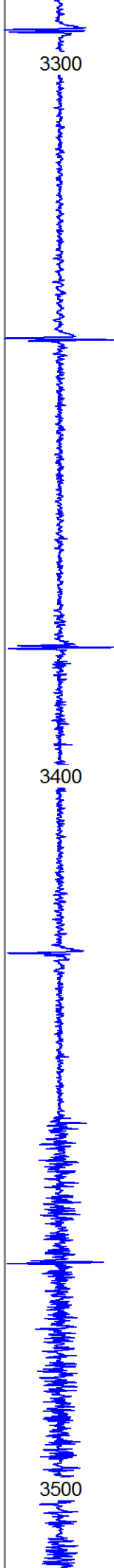


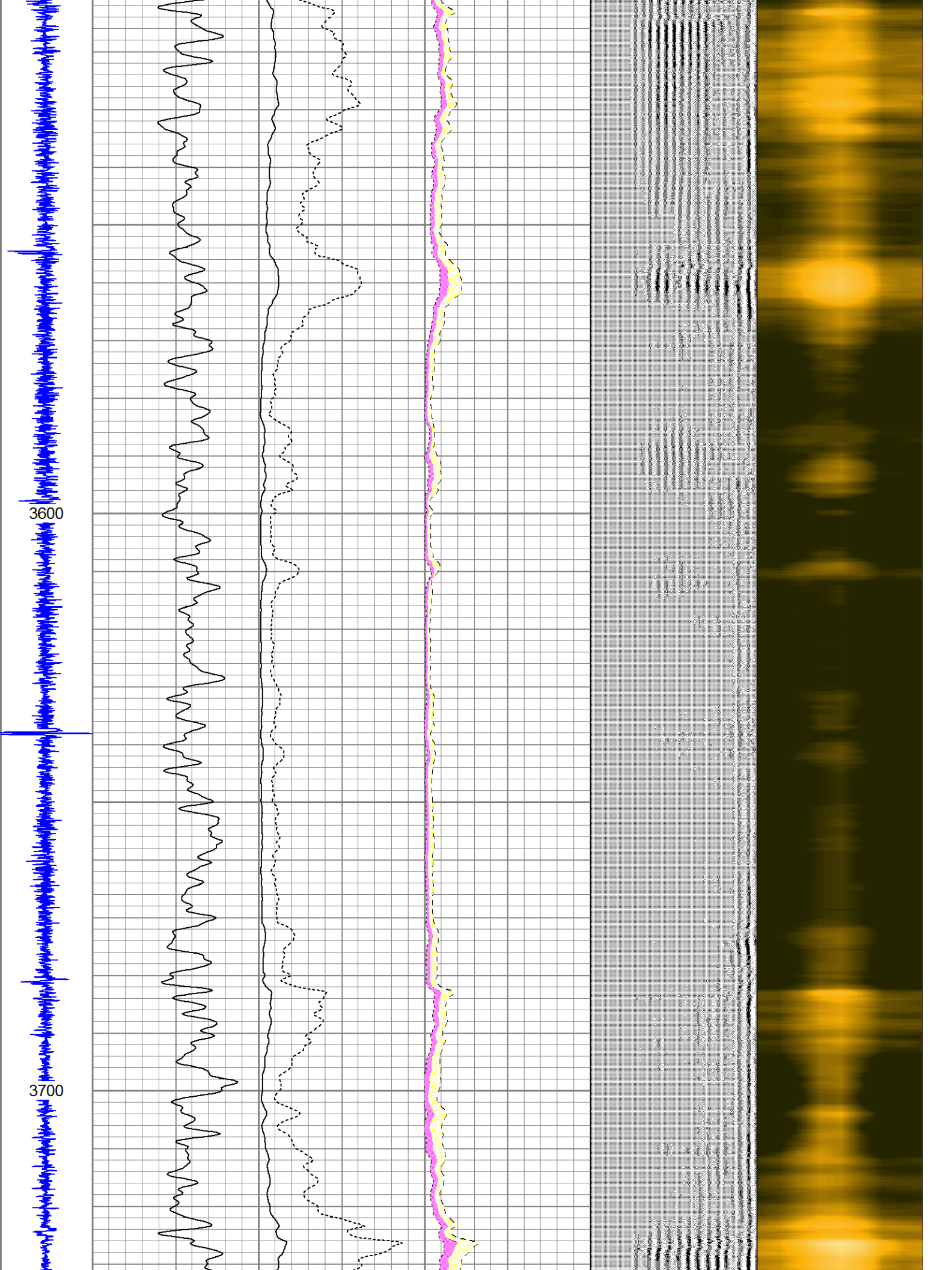


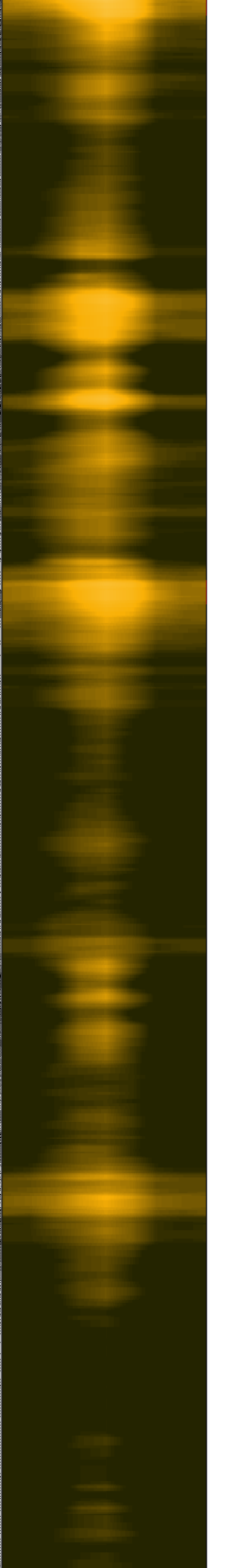
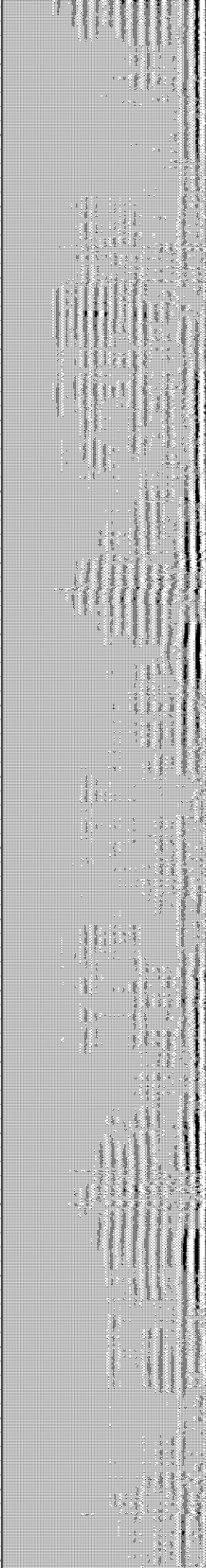
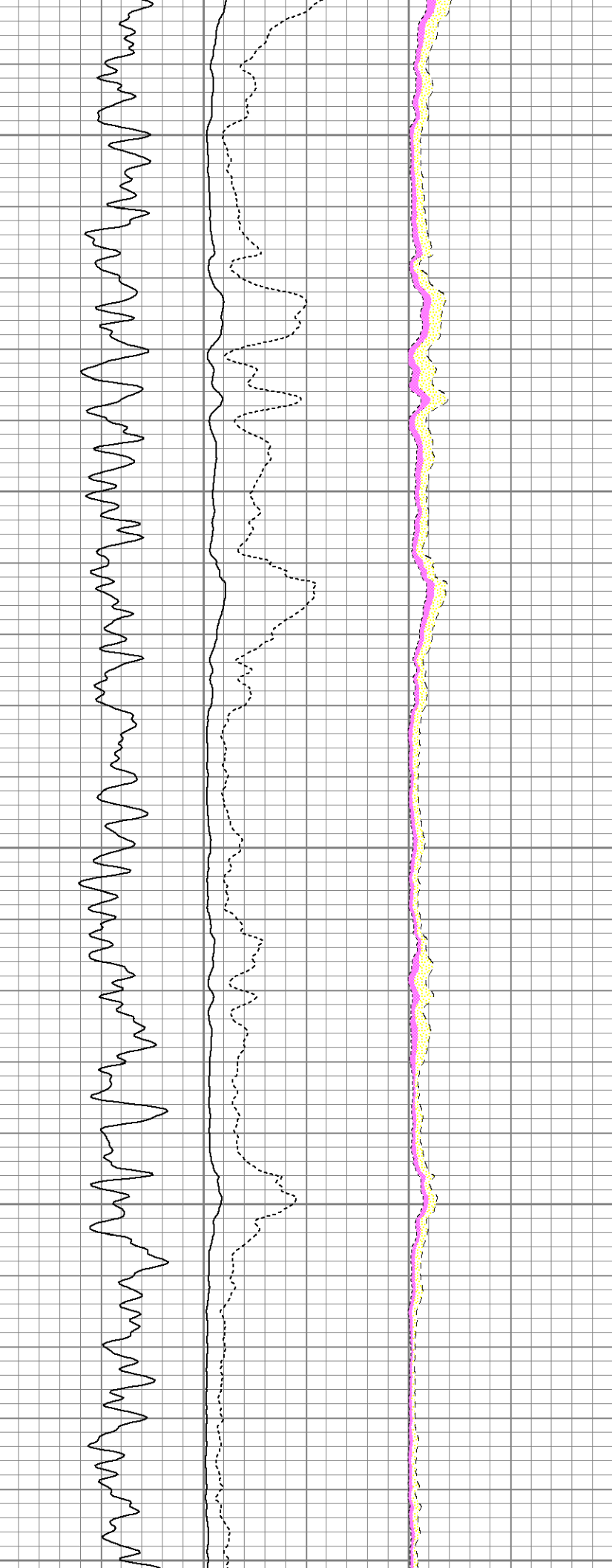
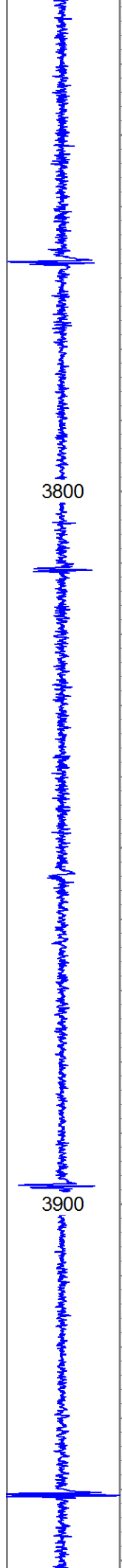


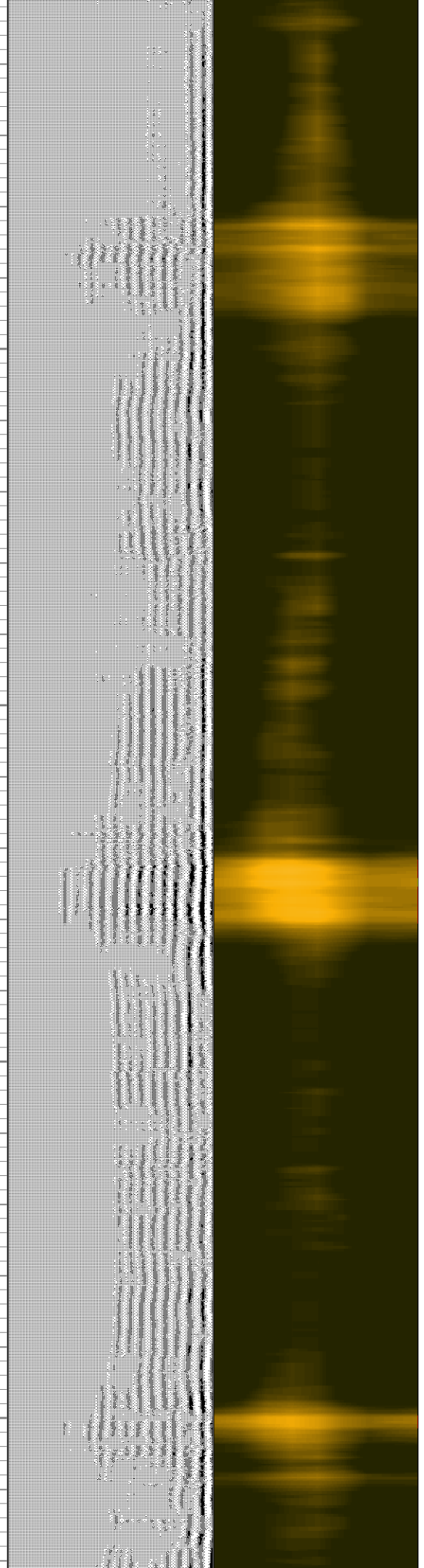
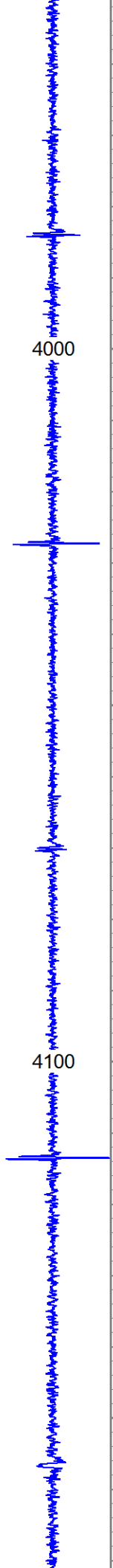


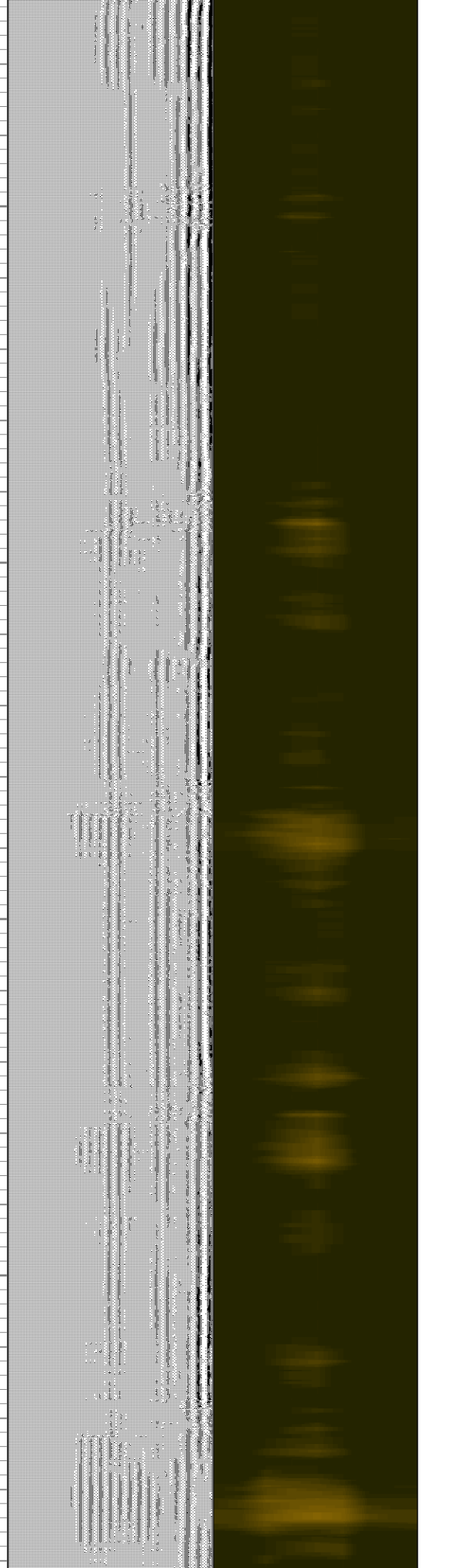
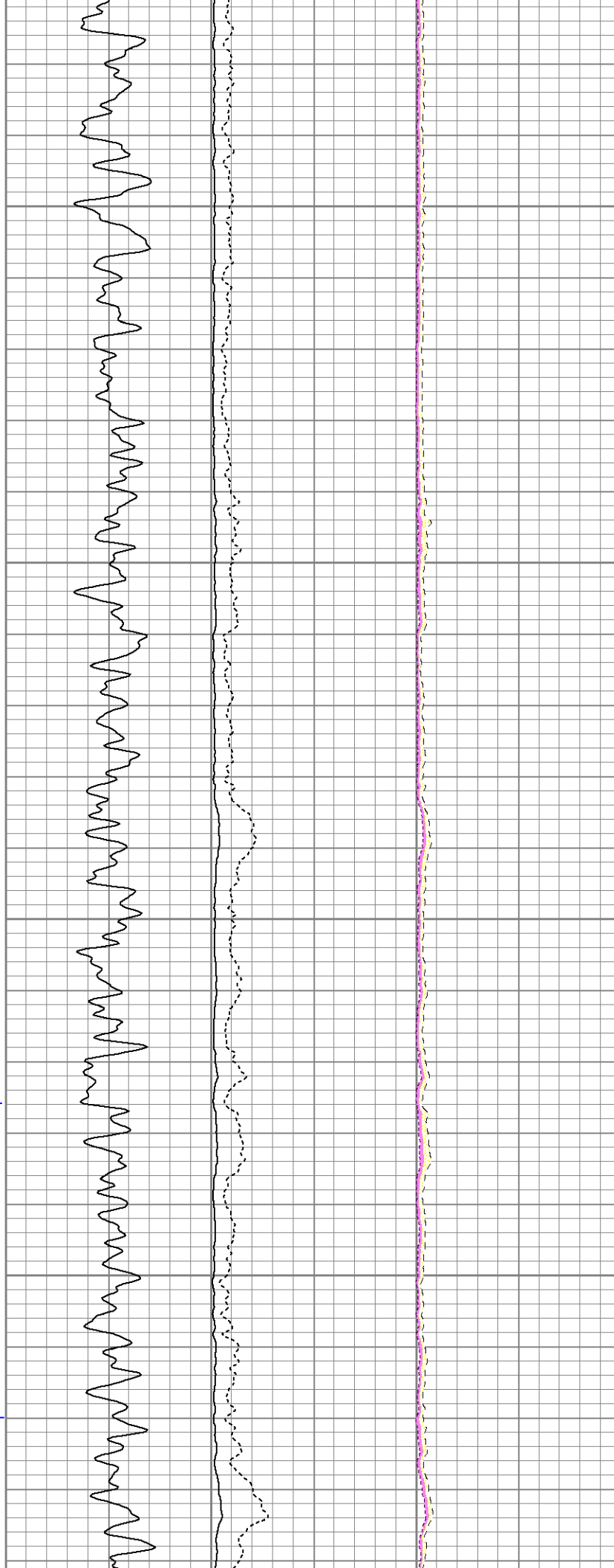
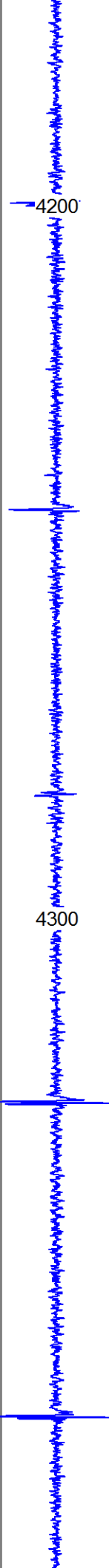










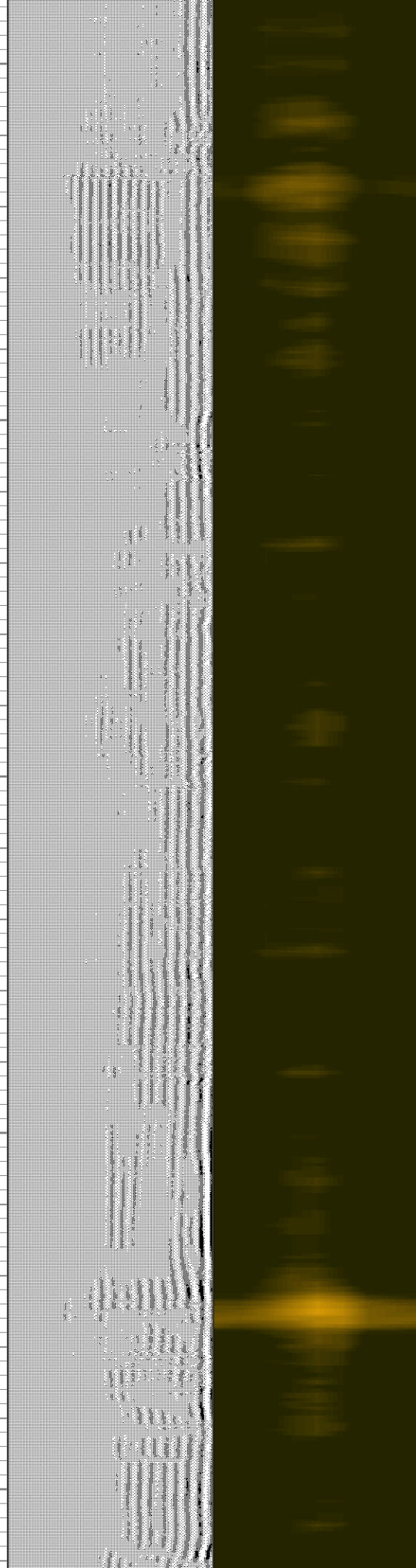
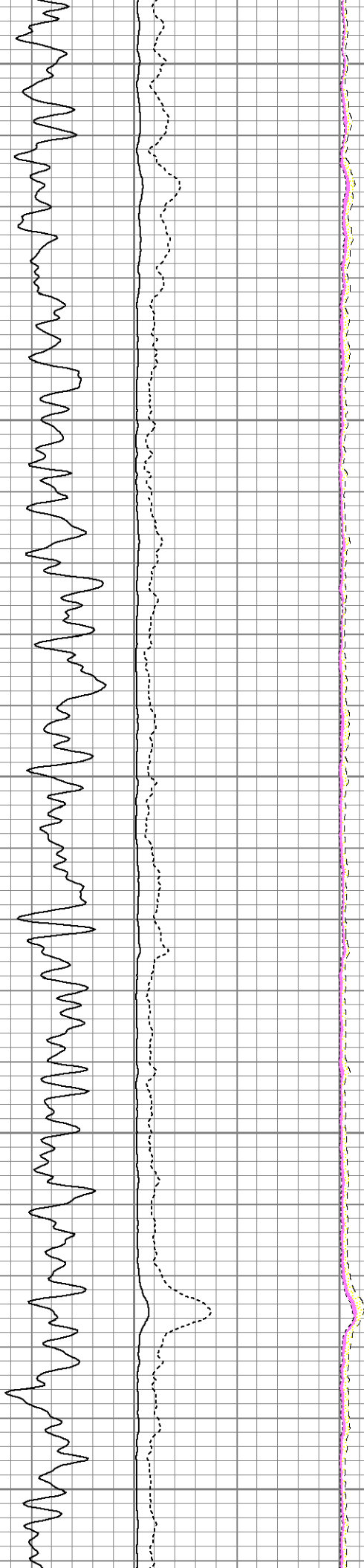


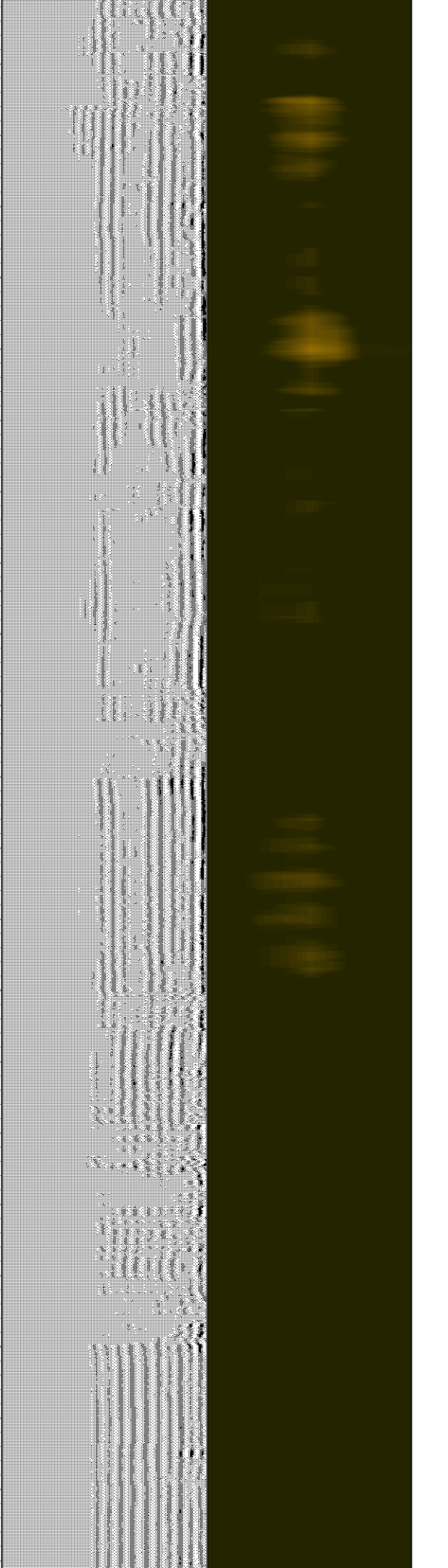
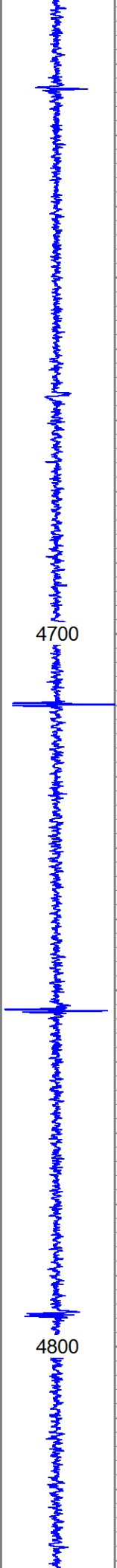
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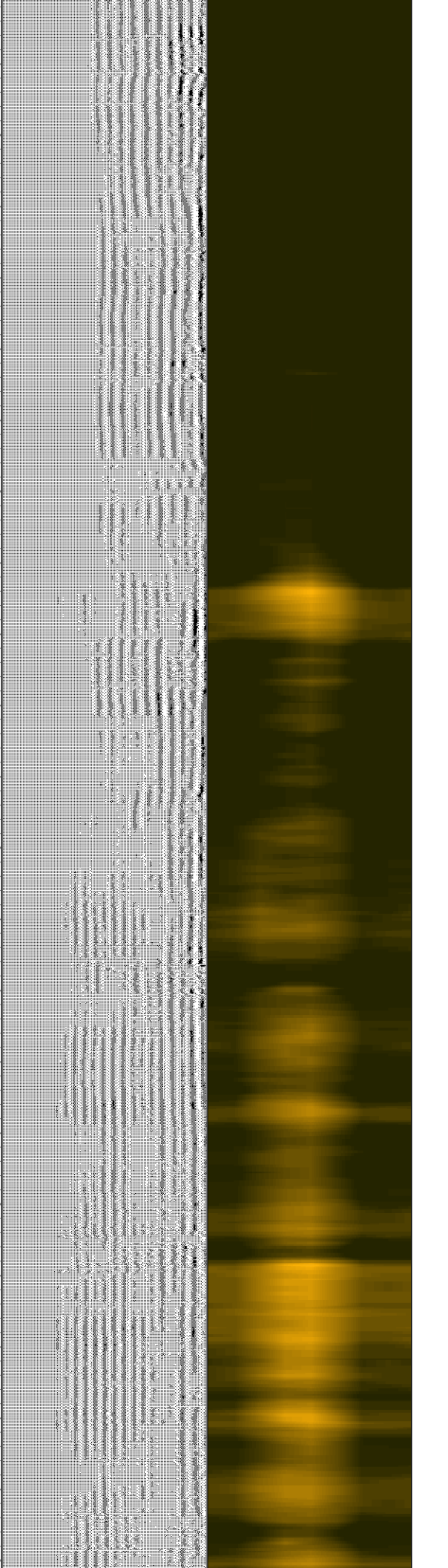
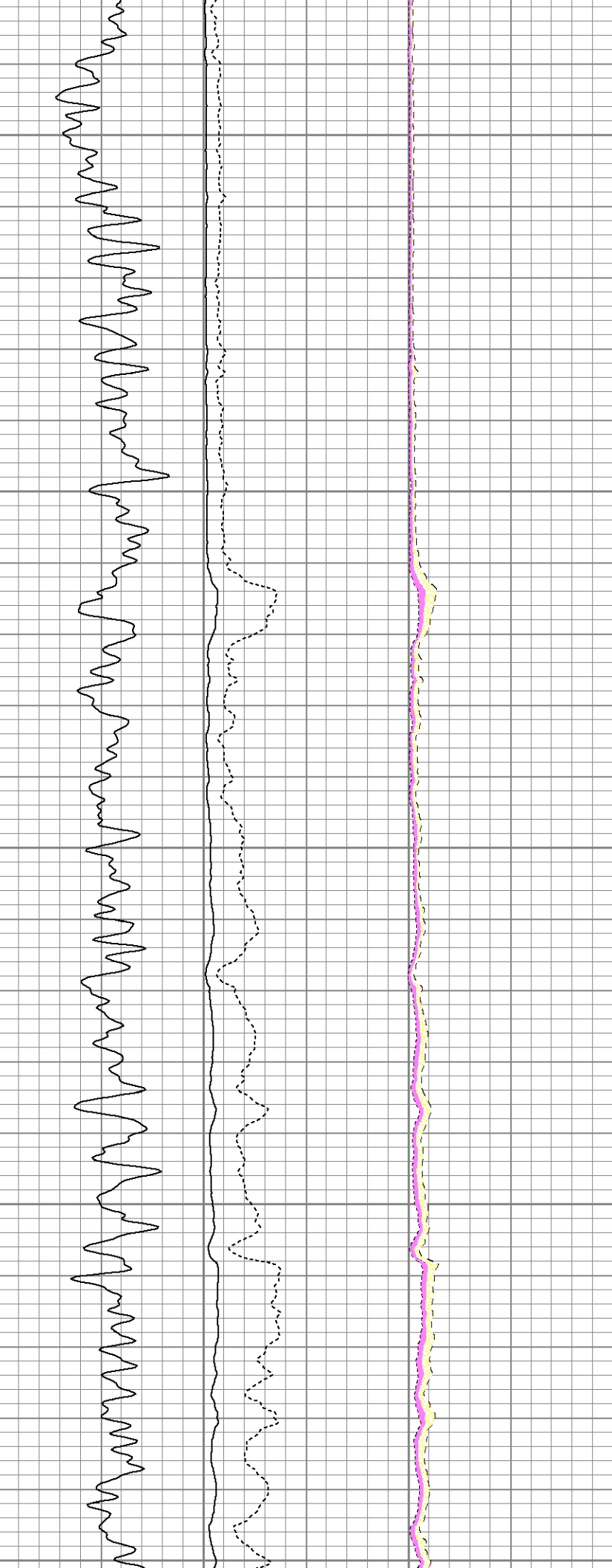
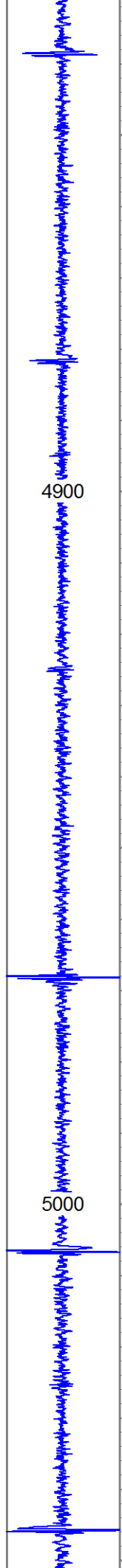


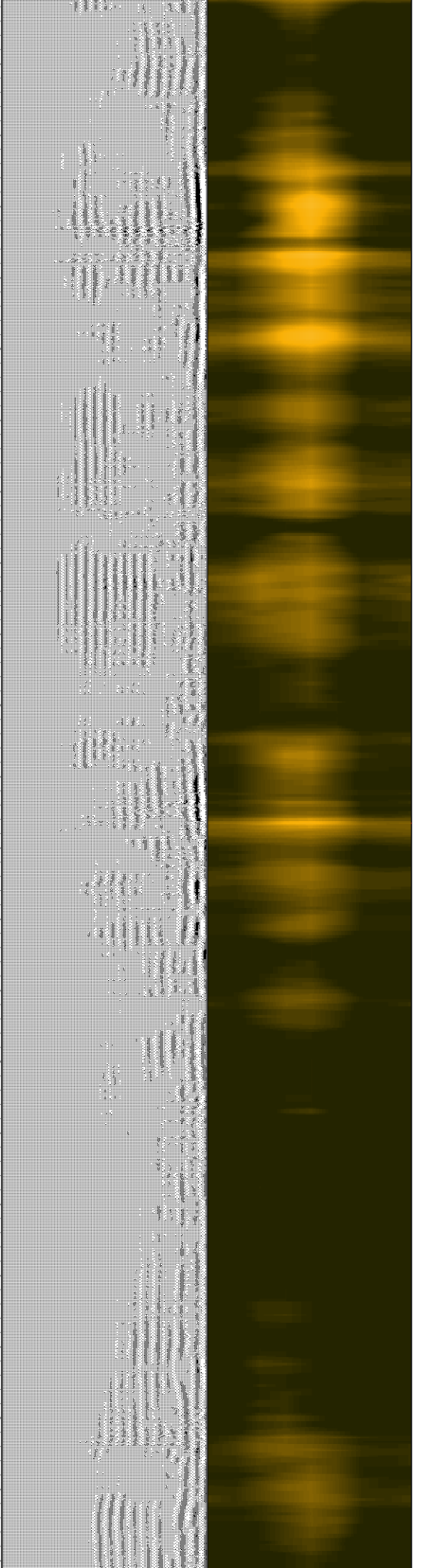
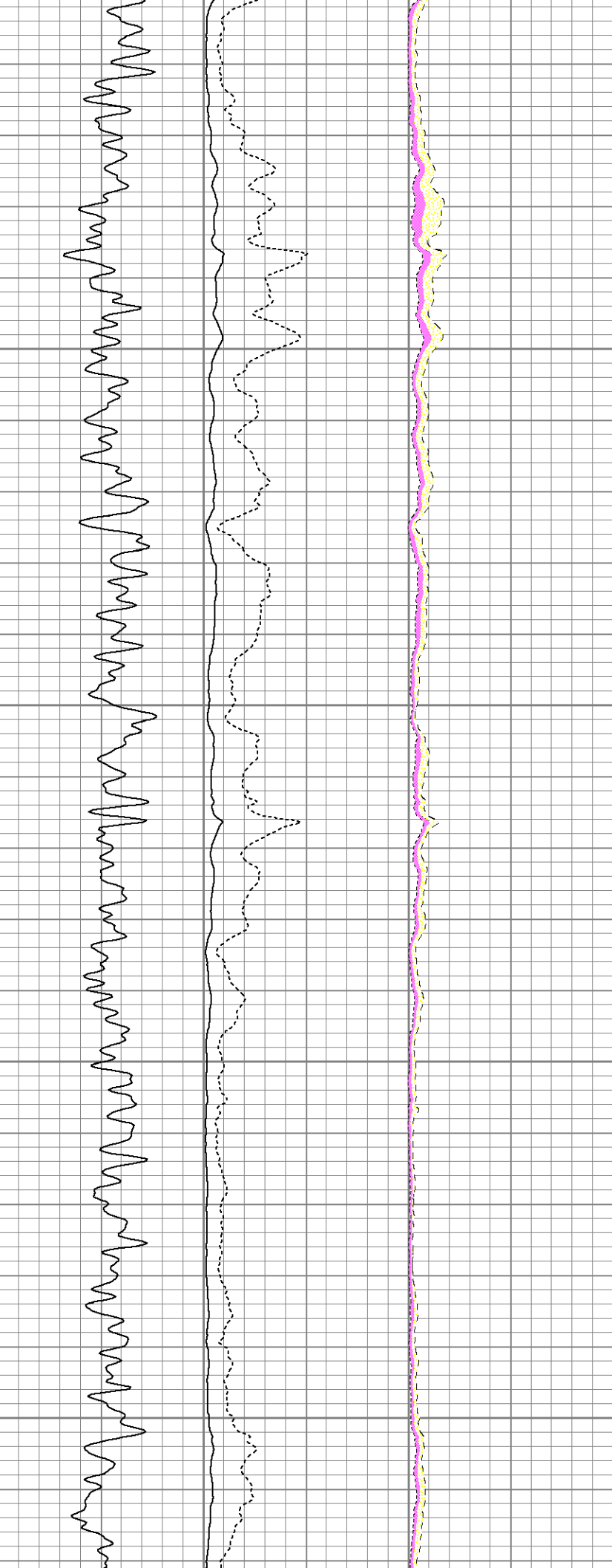
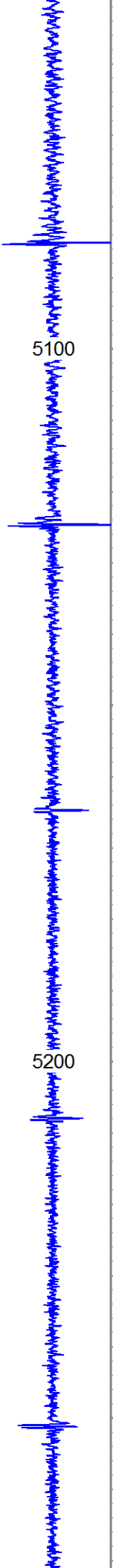
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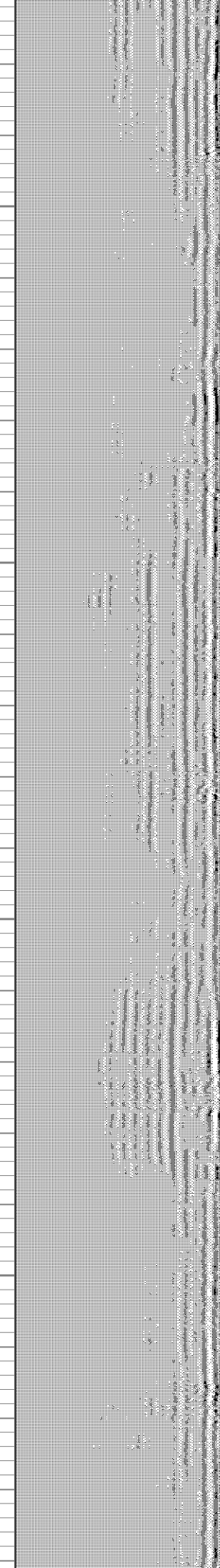
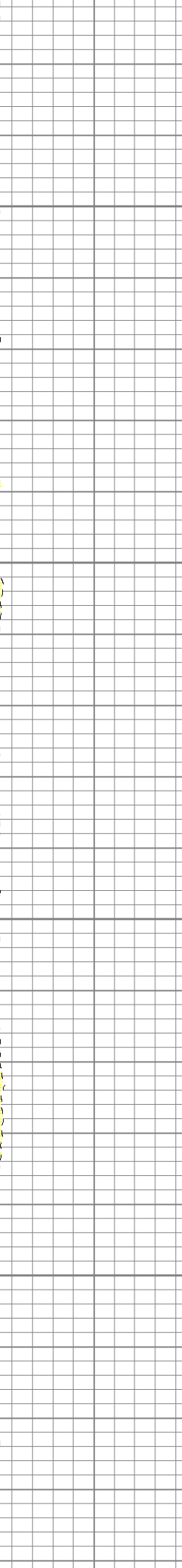
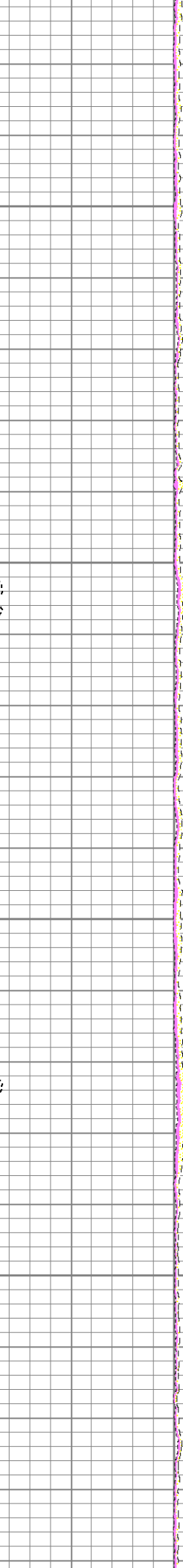
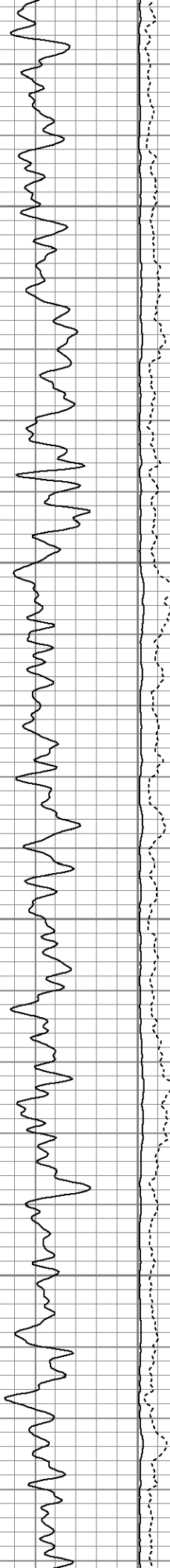






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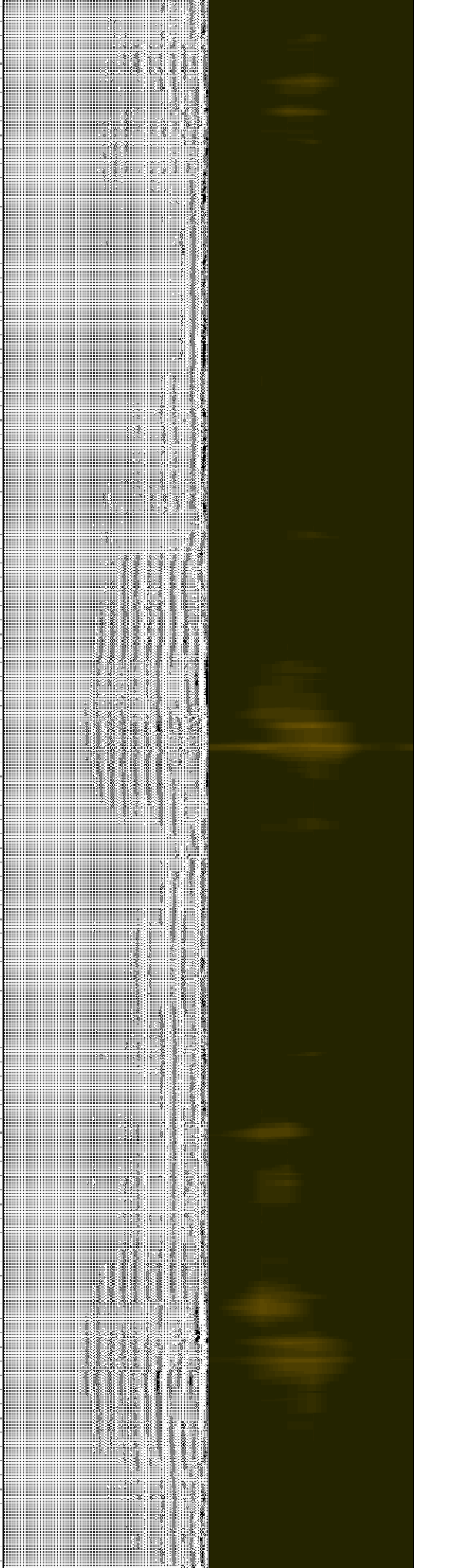
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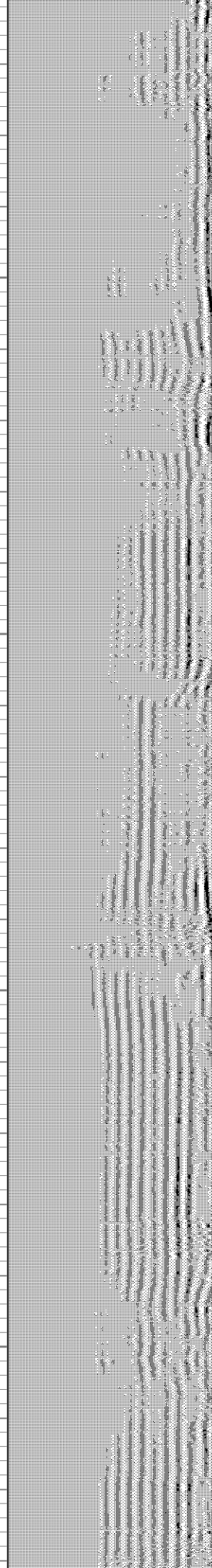
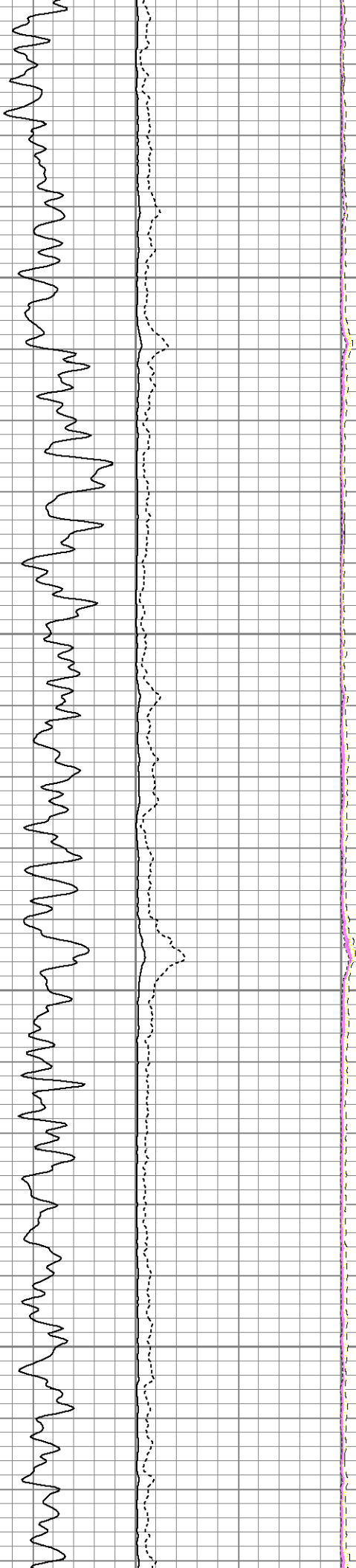
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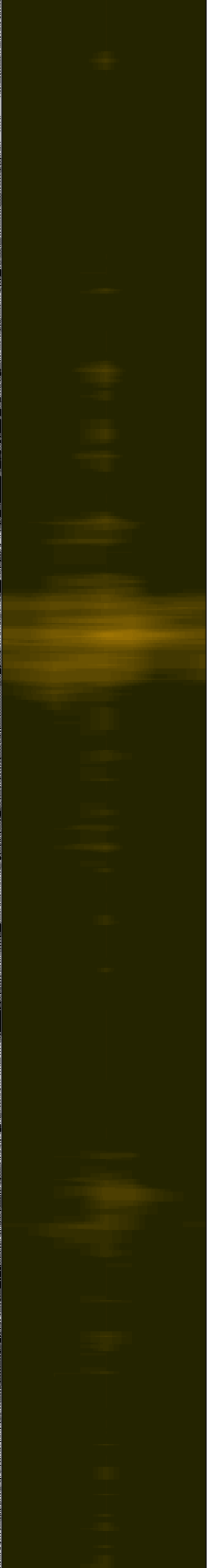
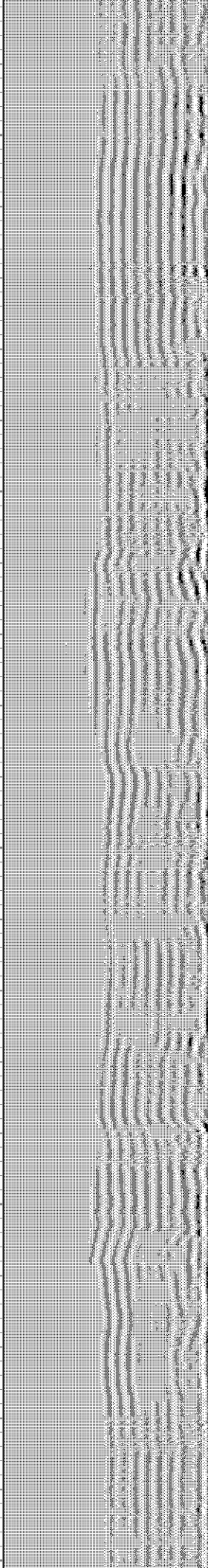
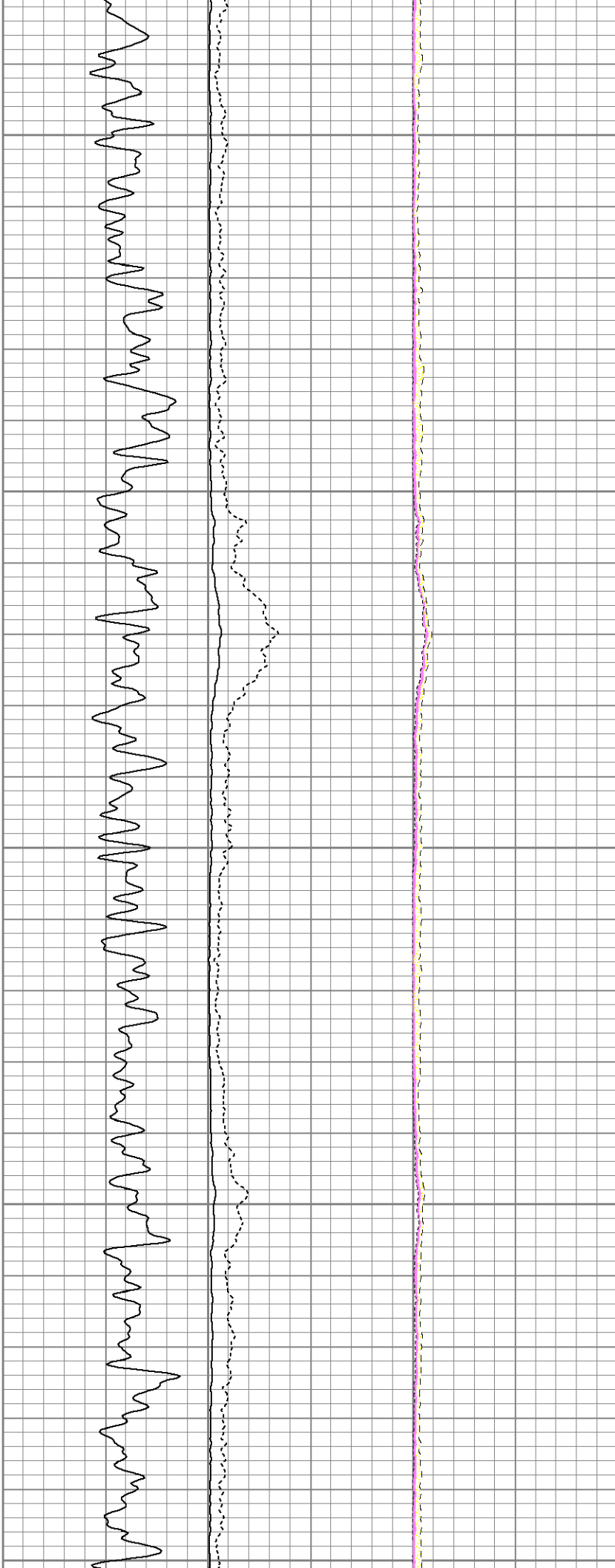
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5800

5900

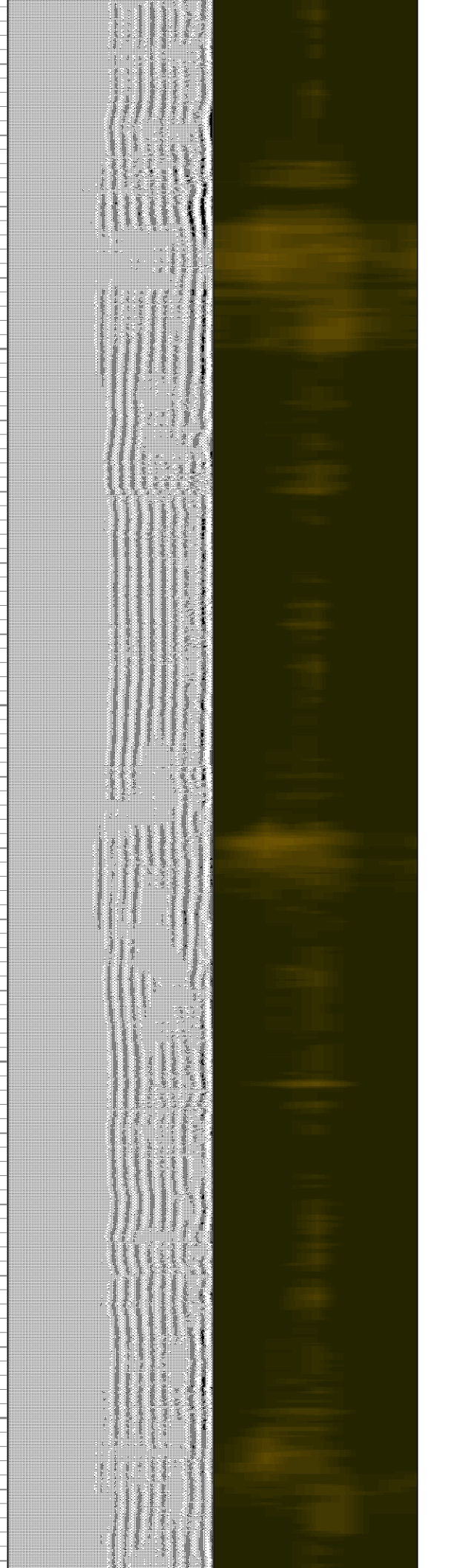
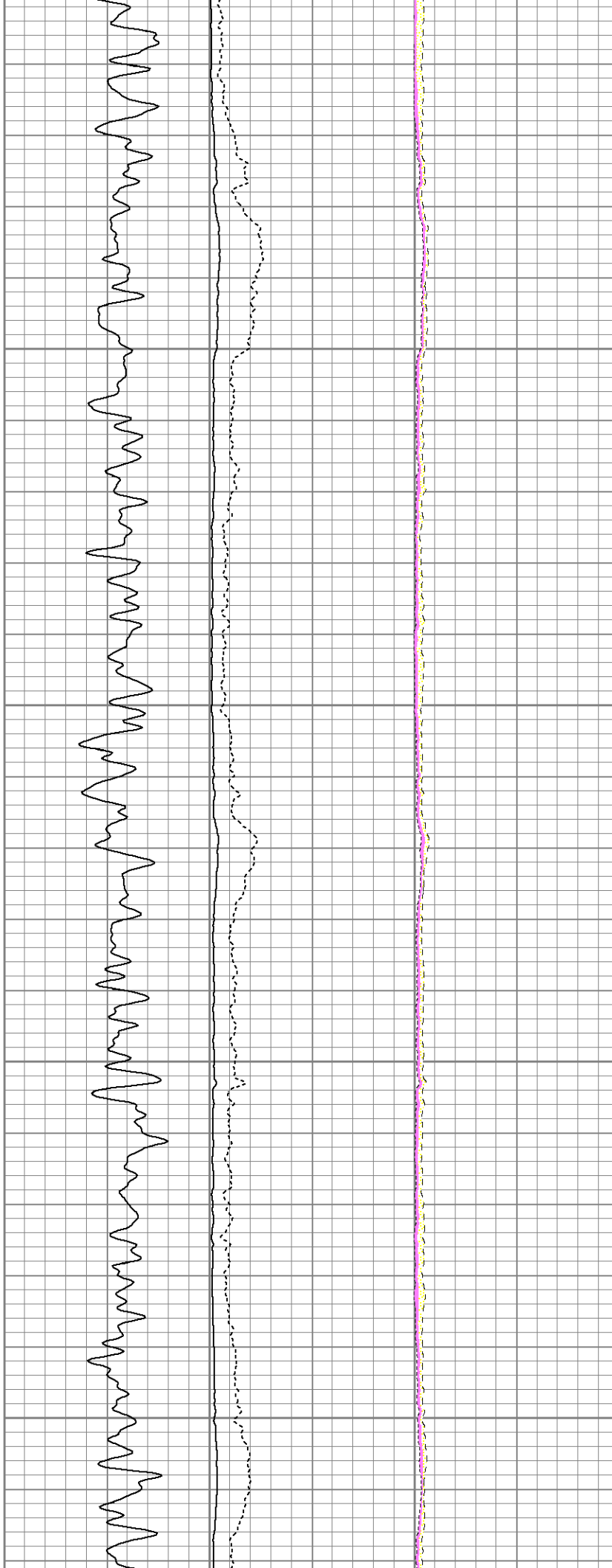


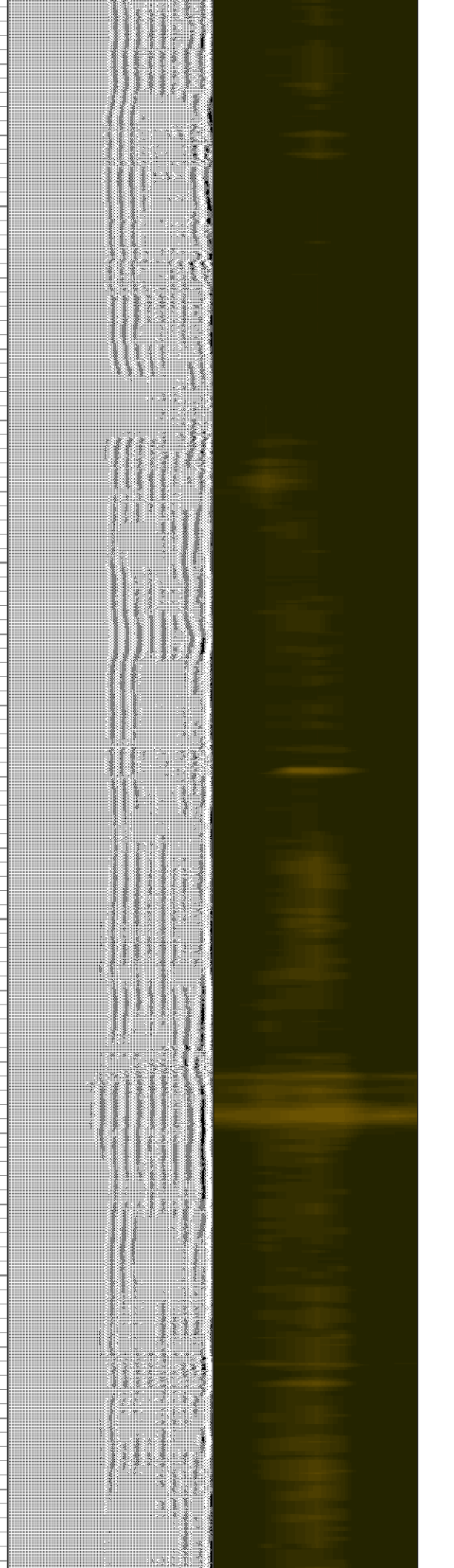
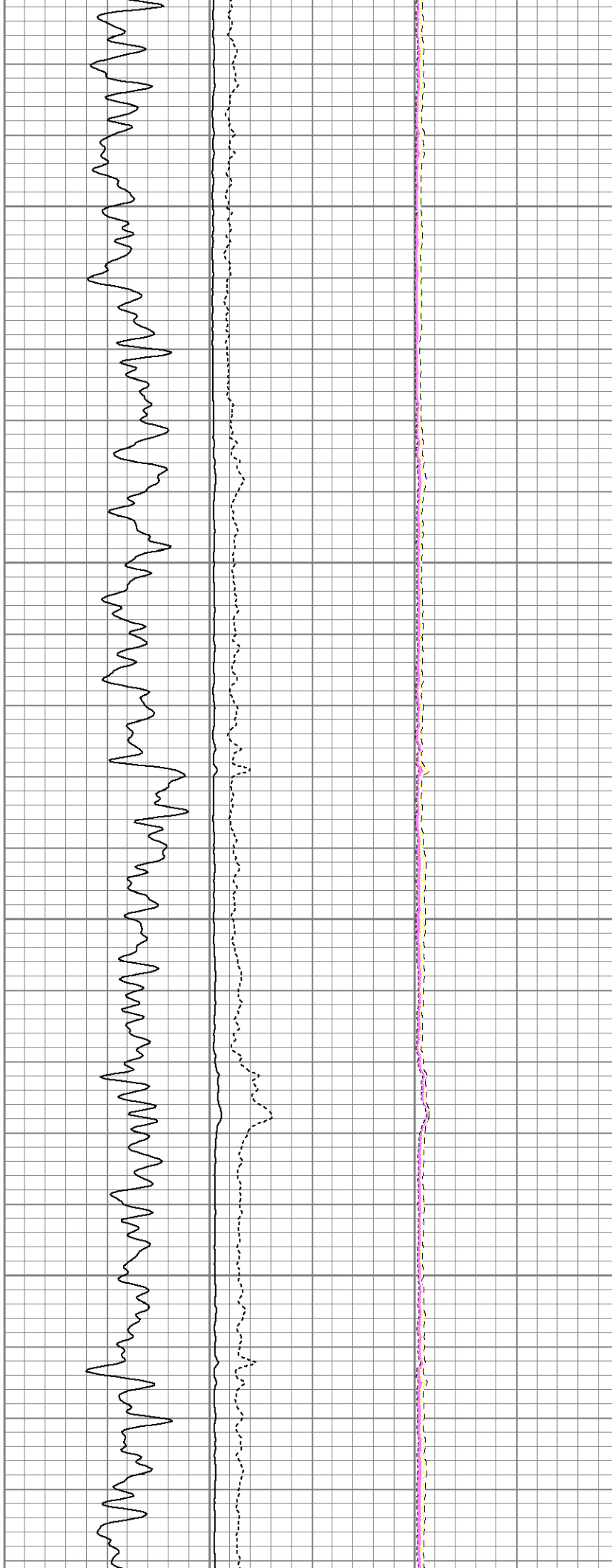




6200

6300





6600

6700

6800

