



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

Pioneer Energy Services

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

Location: API #: 05123365190000

293' FSL & 1421' FWL

SEC 13 TWP 3N RGE 66W

Permanent Datum GL
Log Measured From KB
Drilling Measured From KB

Elevation 5024'
K.B. 5040'
D.F. 5041'
G.L. 5024'

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

Date Run Number 4-8-14

Depth Driller 11852'

Depth Logger 6758'

Bottom Logged Interval 6758'

Top Log Interval SURFACE

Open Hole Size 8.75"

Type Fluid WATER

Density / Viscosity NA

Max. Recorded Temp. 201

Estimated Cement Top SURFACE

Time Well Ready ROA

Time Logger on Bottom PM

Equipment Number 41

Location FORT MORGAN

Recorded By JOHN HOLLIS

Witnessed By MR. RICK DUNFORD

Borehole Record Bit From To Size Weight From To

Casing Record Size Wgt/Ft Top Bottom

Surface String 9 5/8" 36# SURFACE 1307'

Prot. String 7" 26# SURFACE 7641'

Production String 4 1/2" 11.6# SURFACE 6718'

Liner 4 1/2" 11.6# 11837'

<<< Fold Here >>>

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. # 2-260017

CORRECTED TO LINER TOP AT 6718'

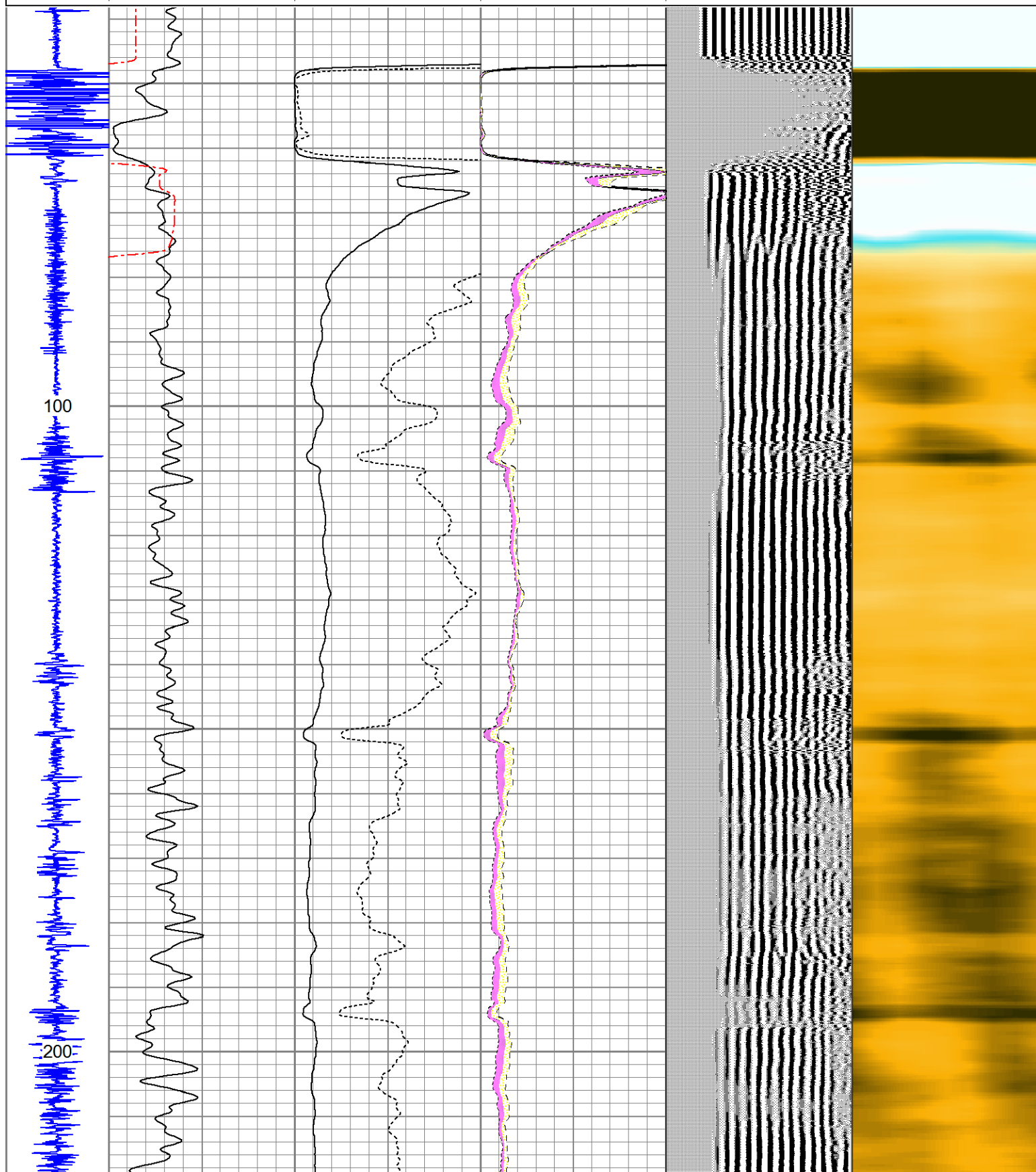
N
W O X O E
S

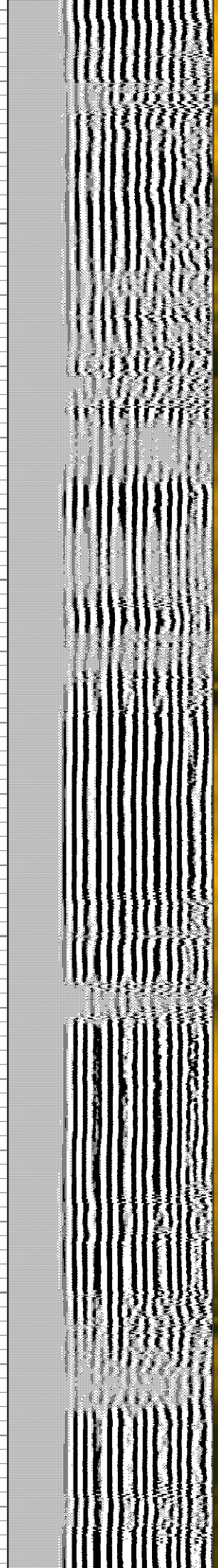
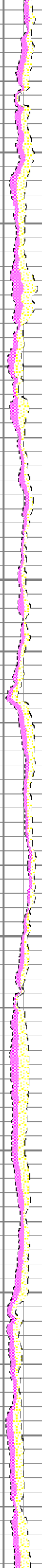
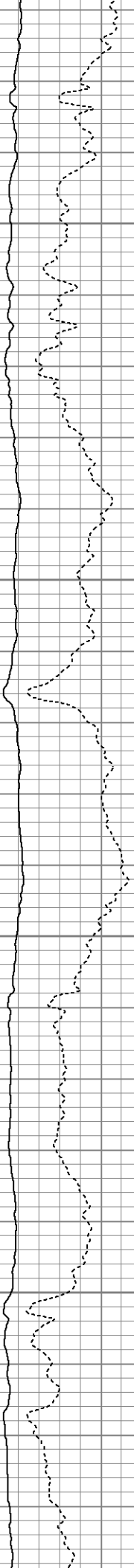
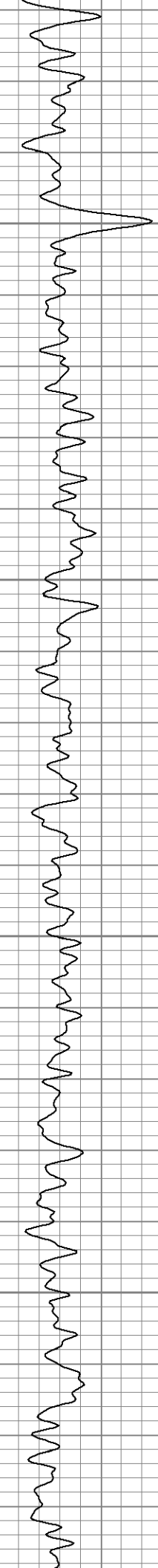
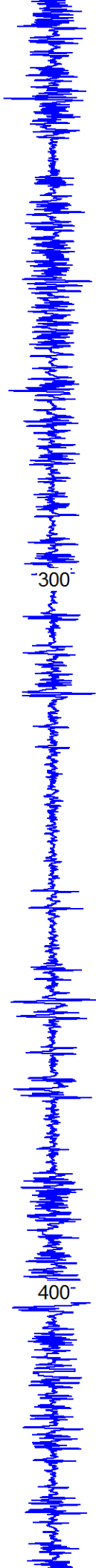
WCR 32 & WCR 35, E 1 MILE, N 1/10, NW 2/10, SW 1/10, S 400' INTO
THANK YOU FOR USING PIONEER ENERGY SERVICES

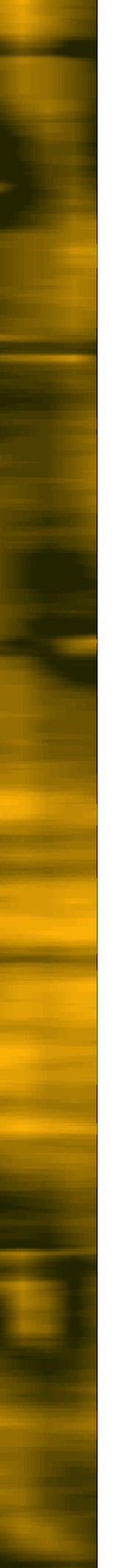
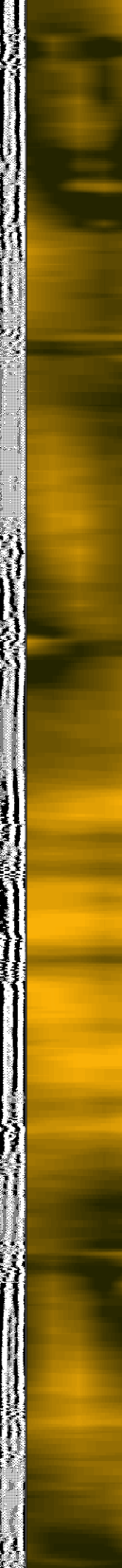
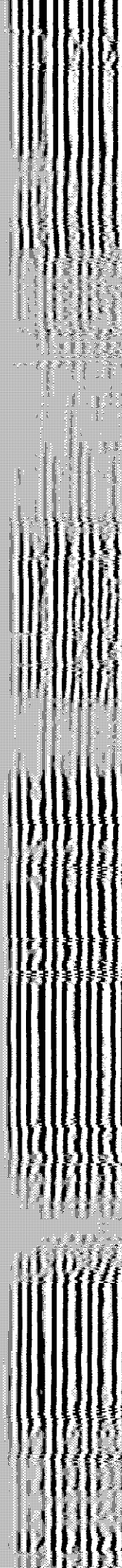
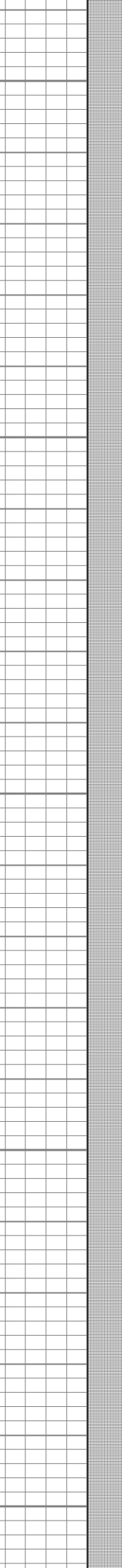
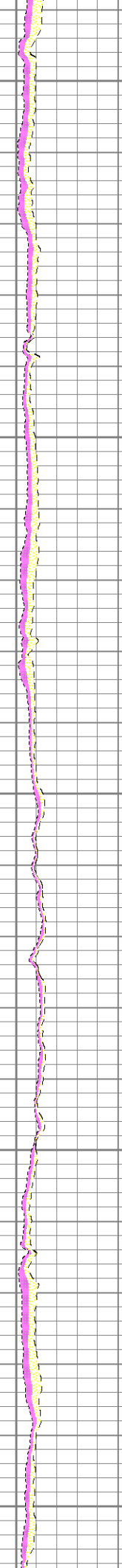
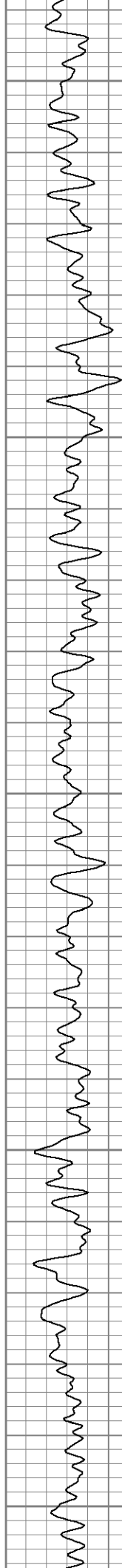
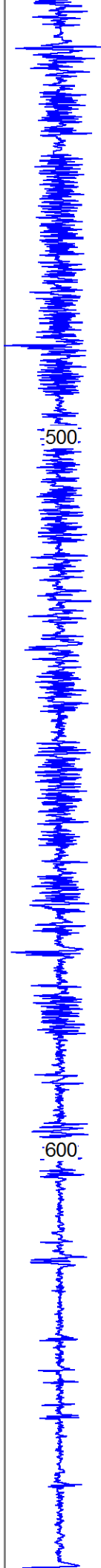
Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			PTS275	2.83	2.75	

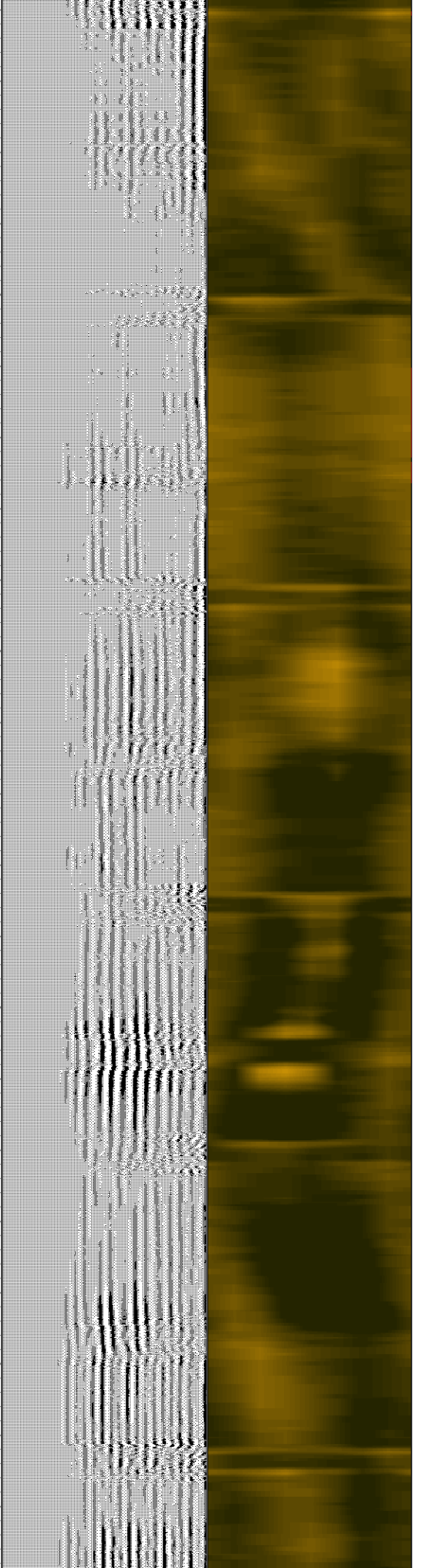
WVF3FT	11.71		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00	
WVFCAL	11.71						
WVFS1	11.71						
WVFS2	11.71						
WVFS3	11.71						
WVFS4	11.71						
WVFS5	11.71						
WVFS6	11.71						
WVFS7	11.71						
WVFS8	11.71						
WVF5FT	10.63						
			PTS275		2.83	2.75	
CCL	3.63						
GR	2.30		GR_CCL-Probe (111211) Probe Gamma CCL		4.54	2.75	100.00
Dataset: brotemarkle_4n_13hz_05123365190000_rbl.db: field/well/run1/pass4 Total Length: 19.13 ft Total Weight: 190.00 lb O.D. 2.75 in							

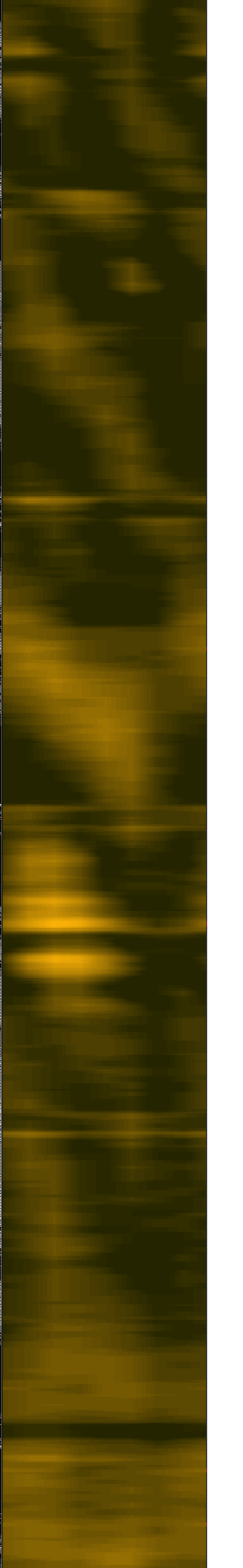
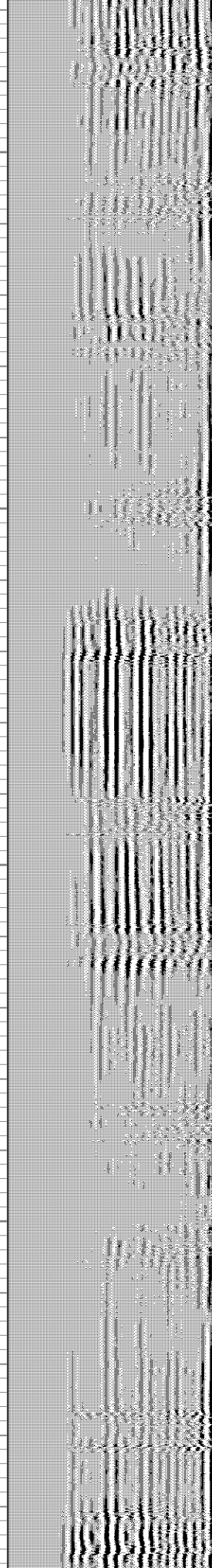
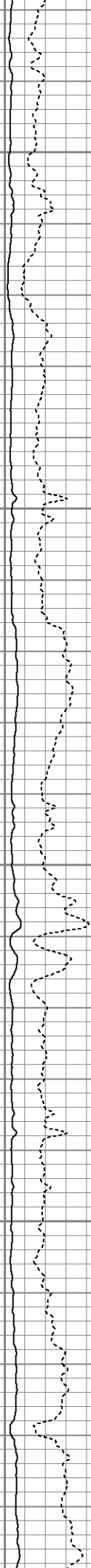
-5	CCL	5	0	GR (GAPI)	200	0	AMP (mV)	100	0	AMPAVG	150	200	VDL	1200	1	SECTOR MAP	8
				TT3FT		0	AMPx5 (mV)	20	0	AMPMAX	150				5		100
			326	(usec)	226				0	AMPMIN	150						

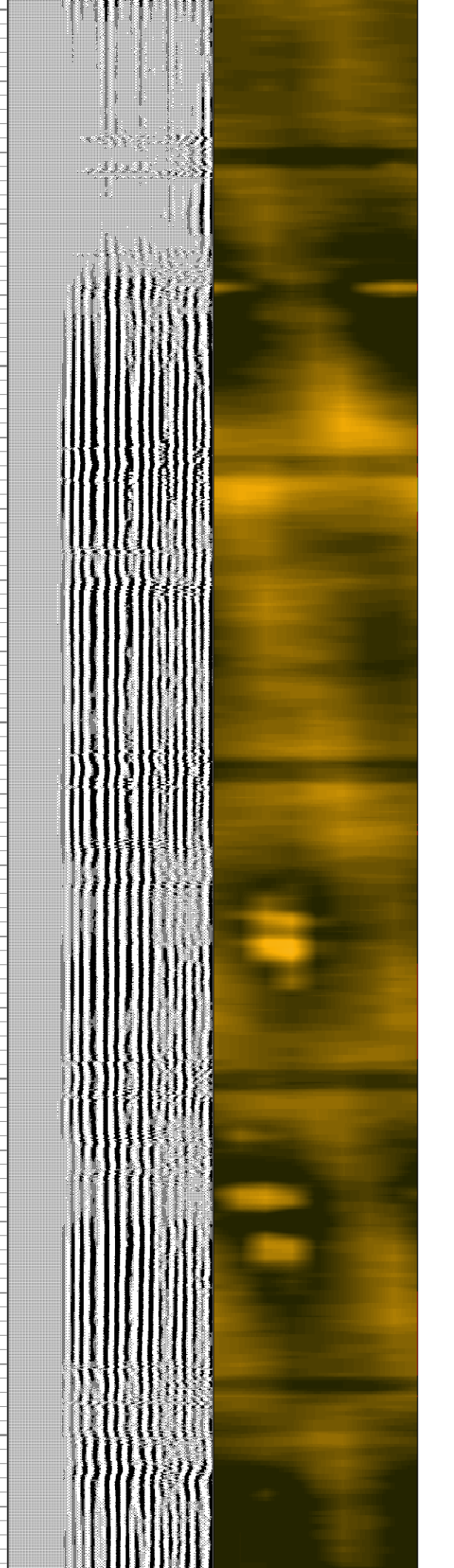
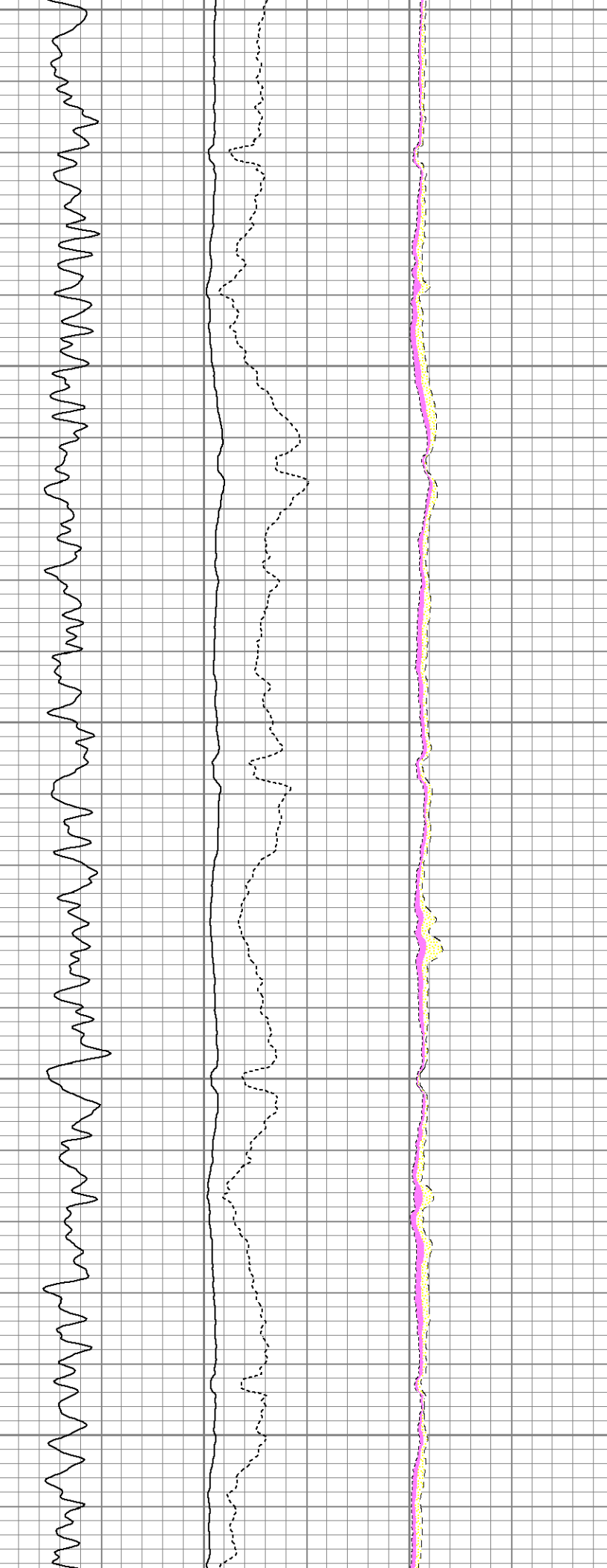


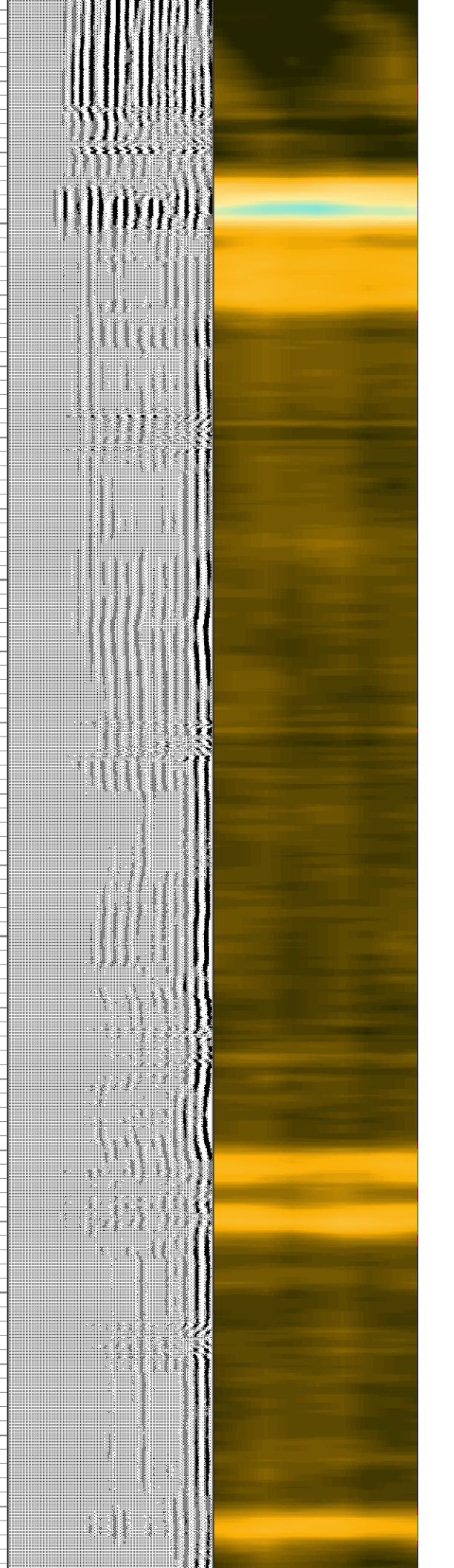
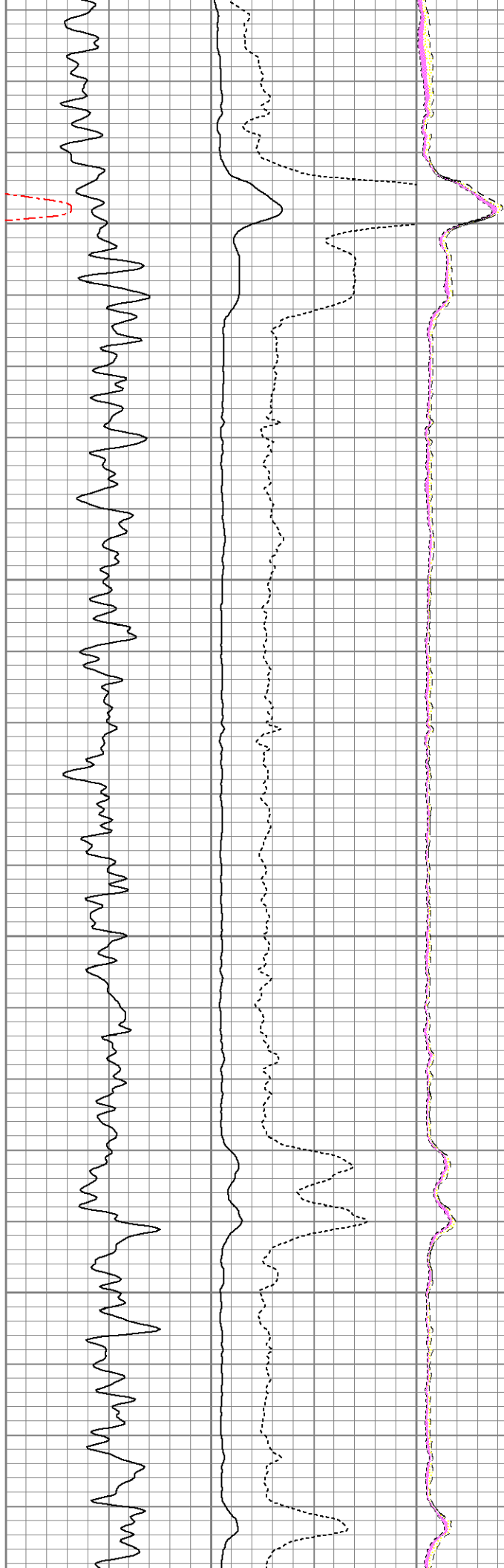


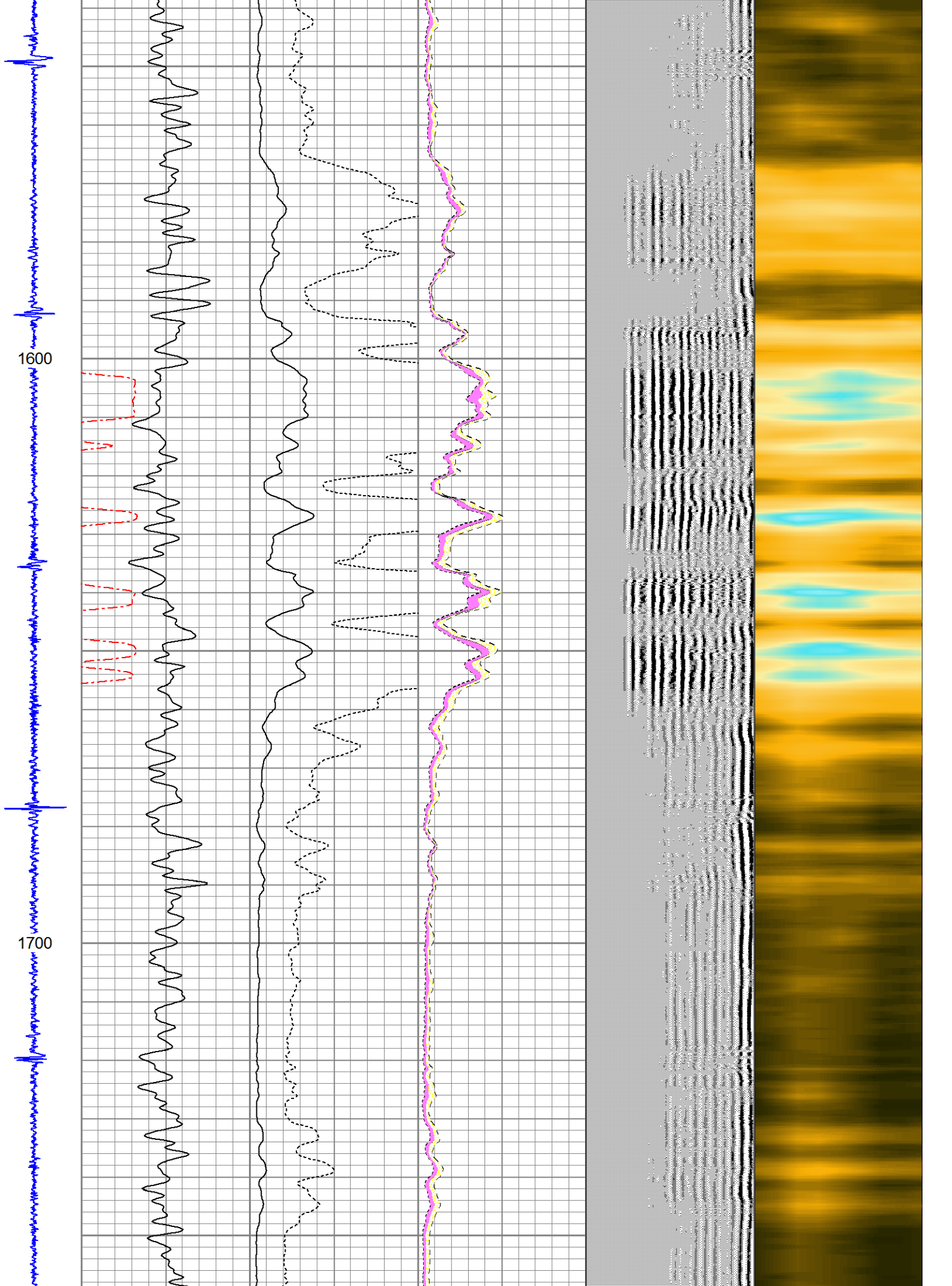


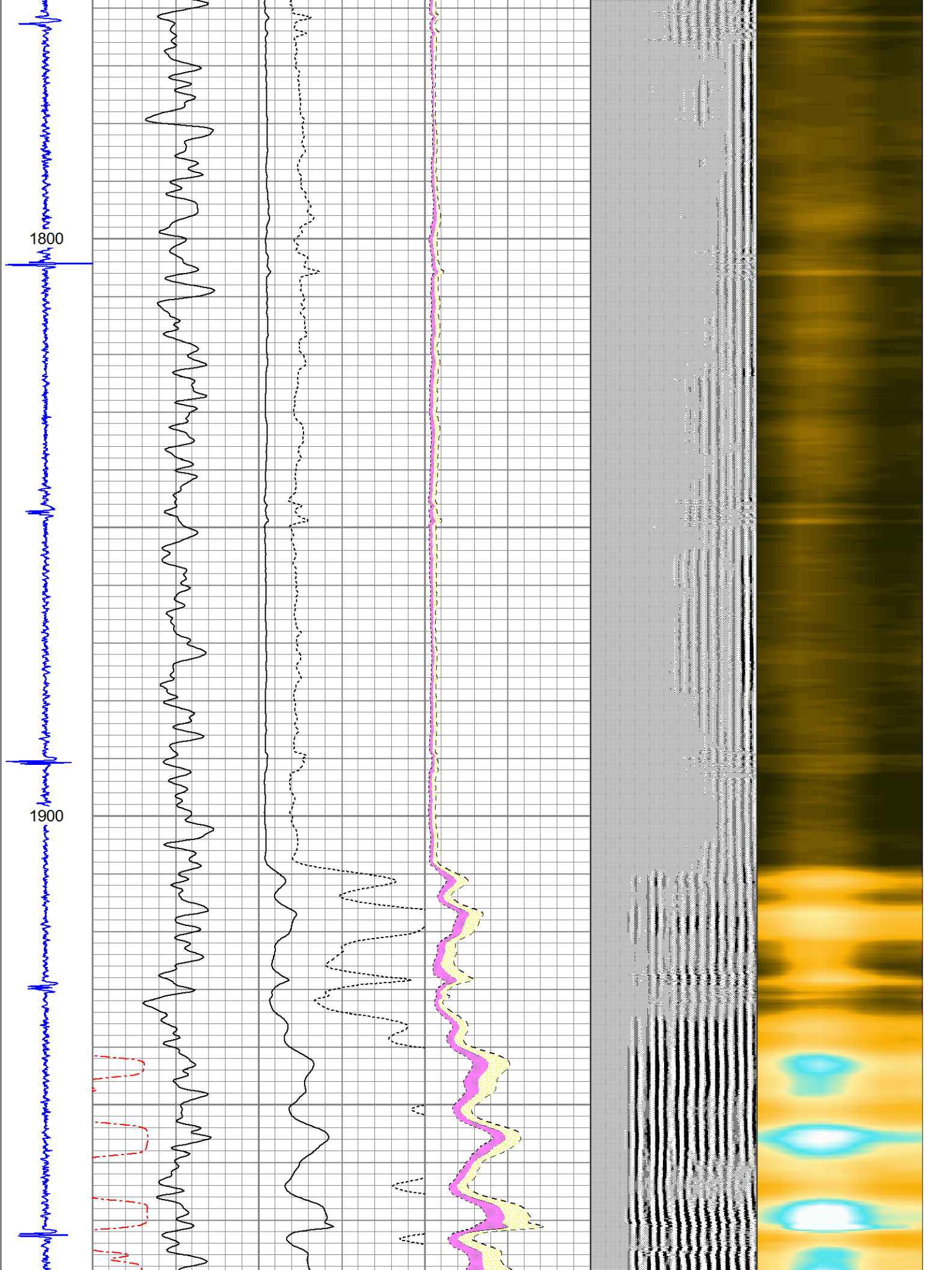






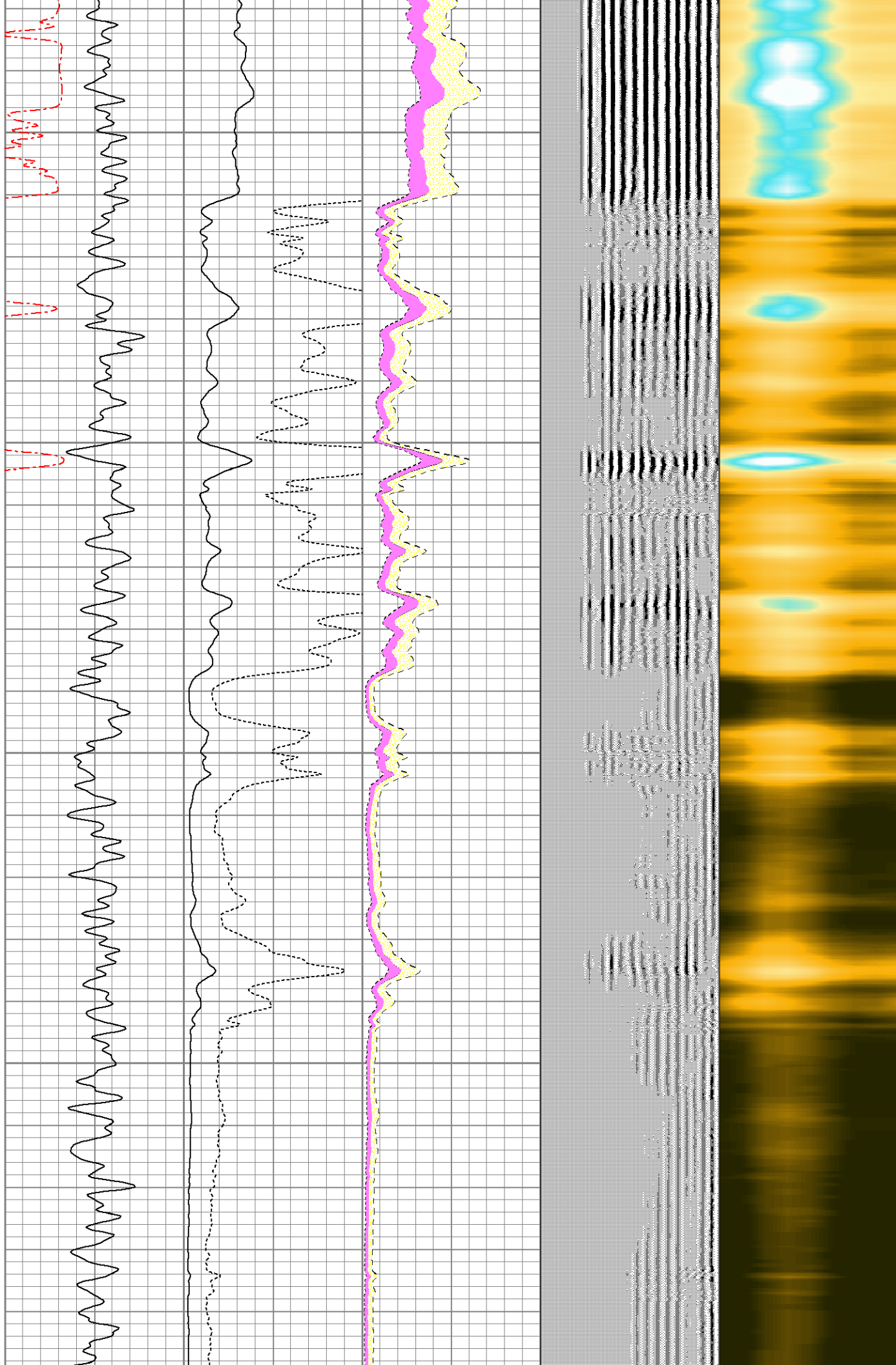






2000

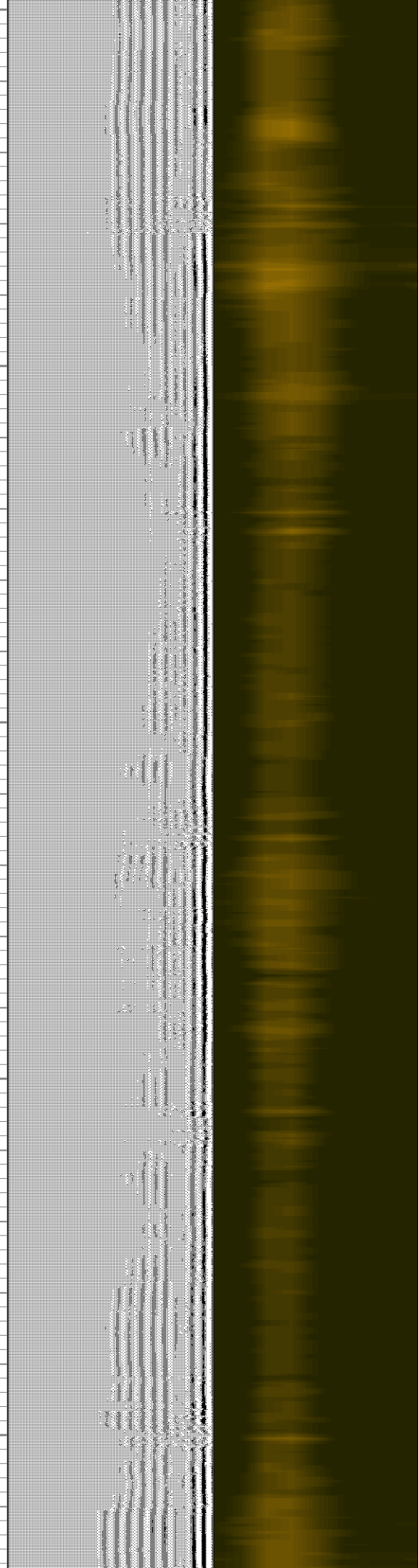
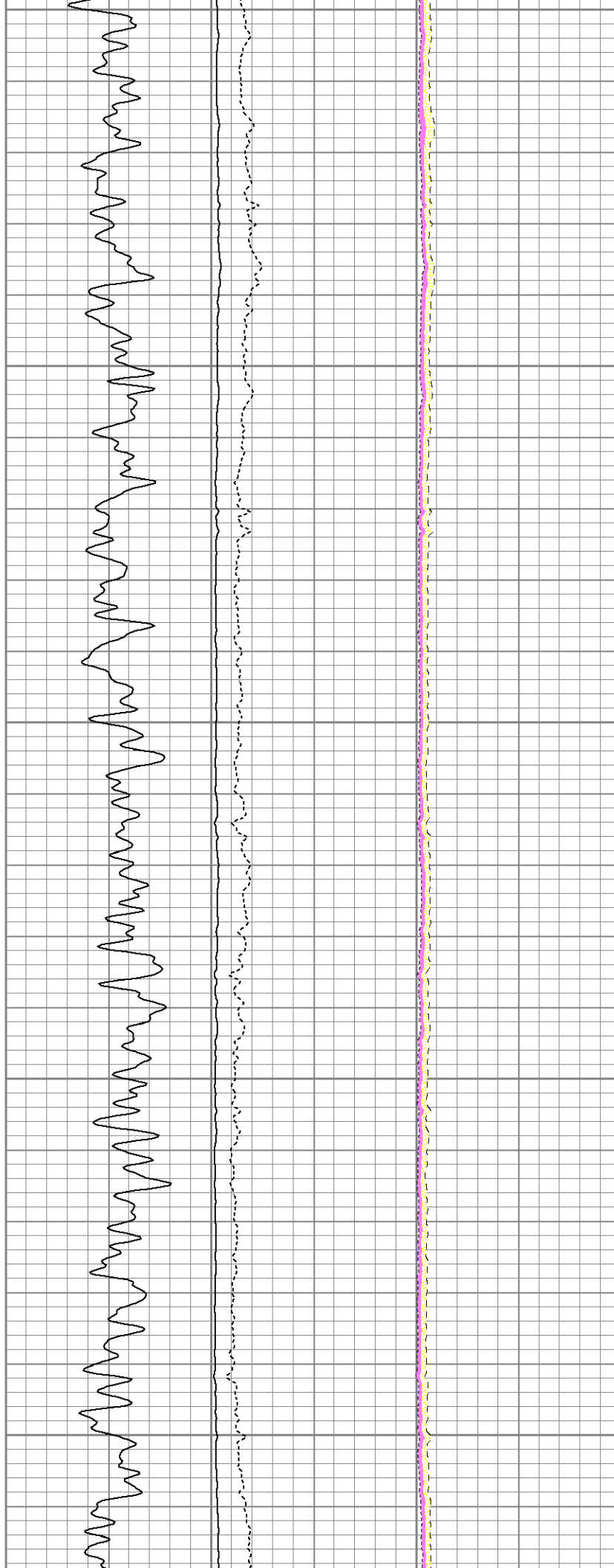
2100

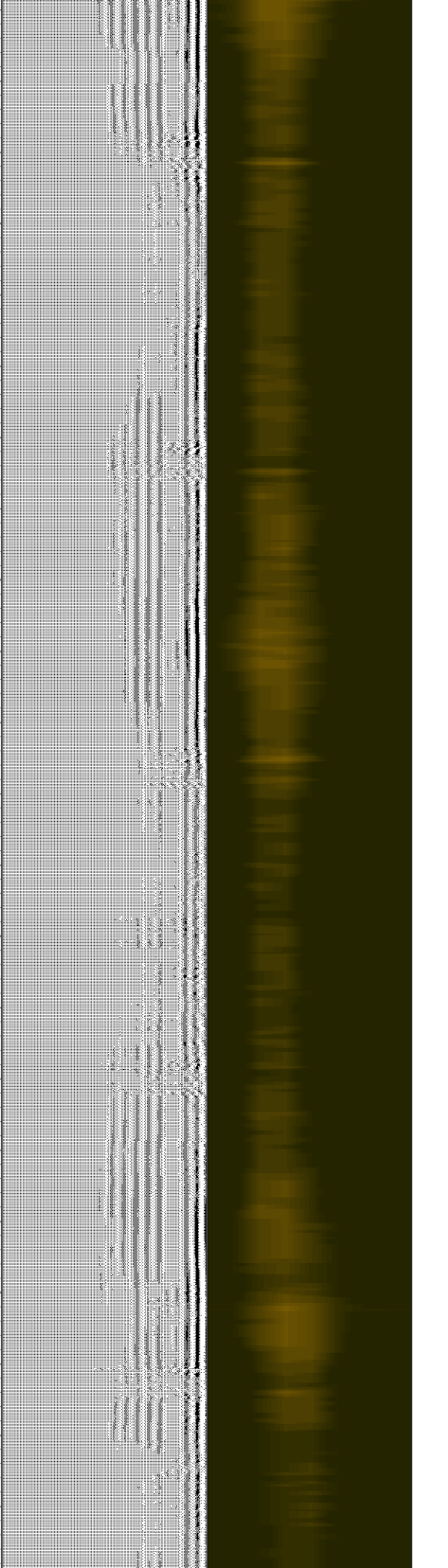
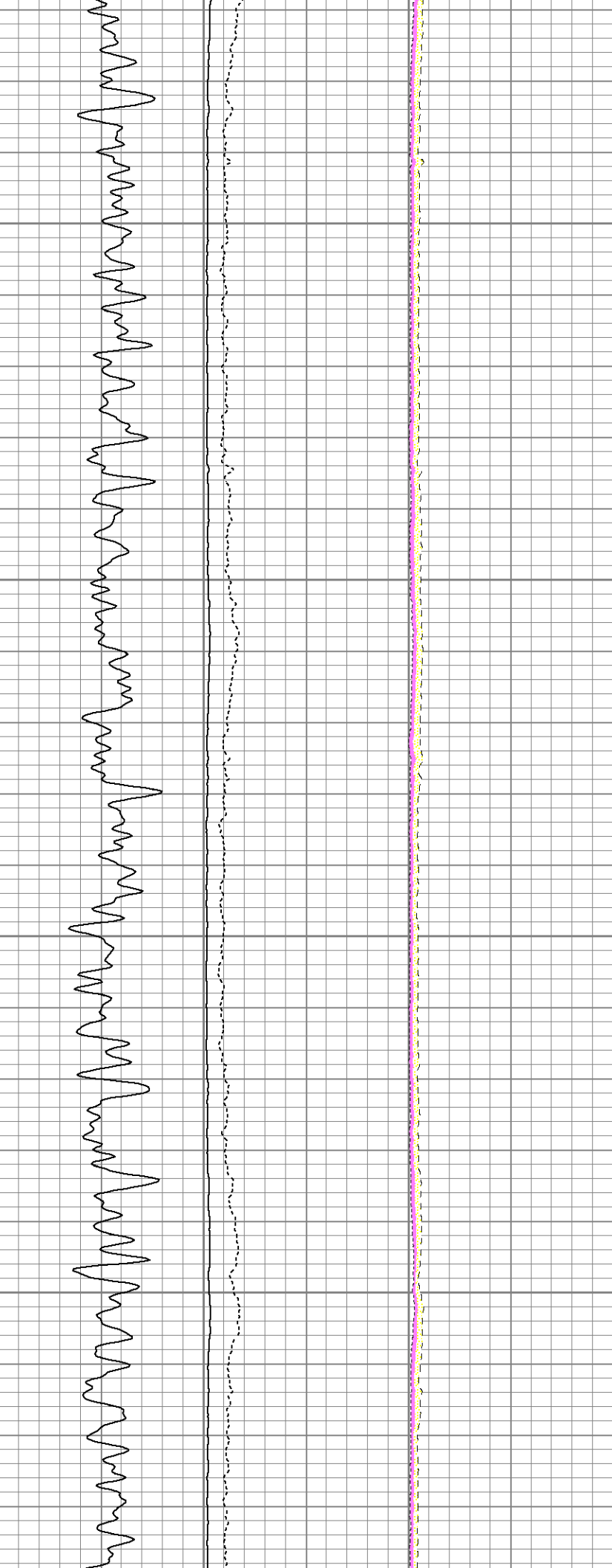
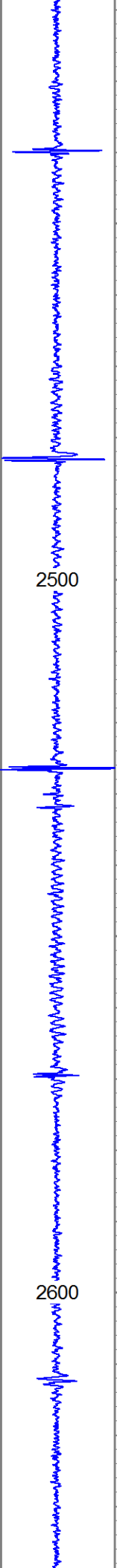


2200

2300

2400

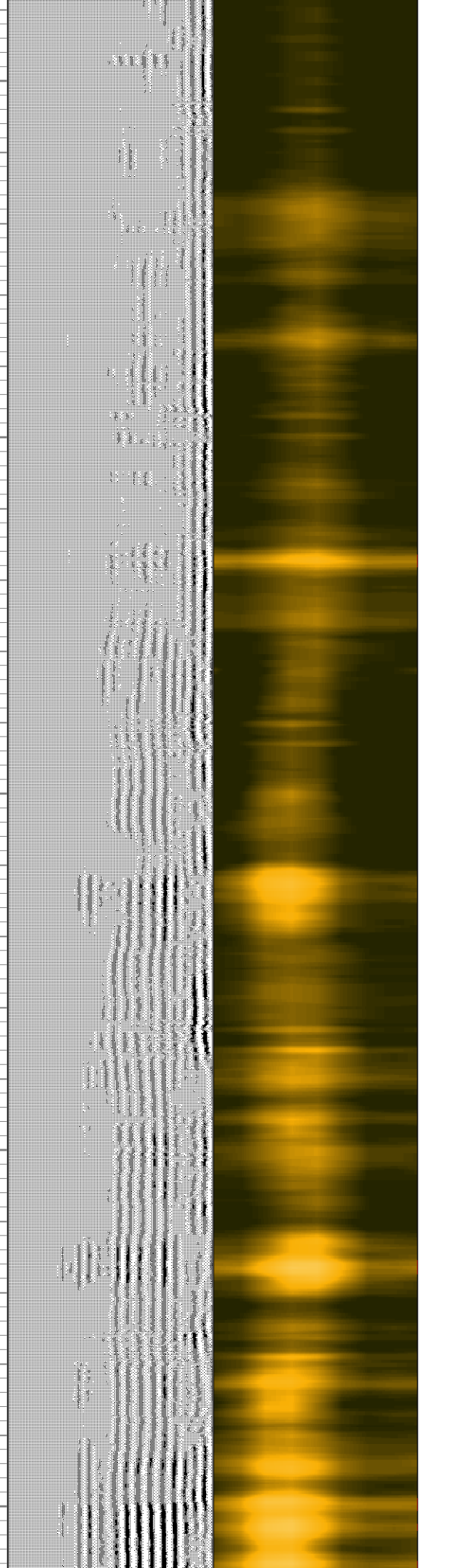
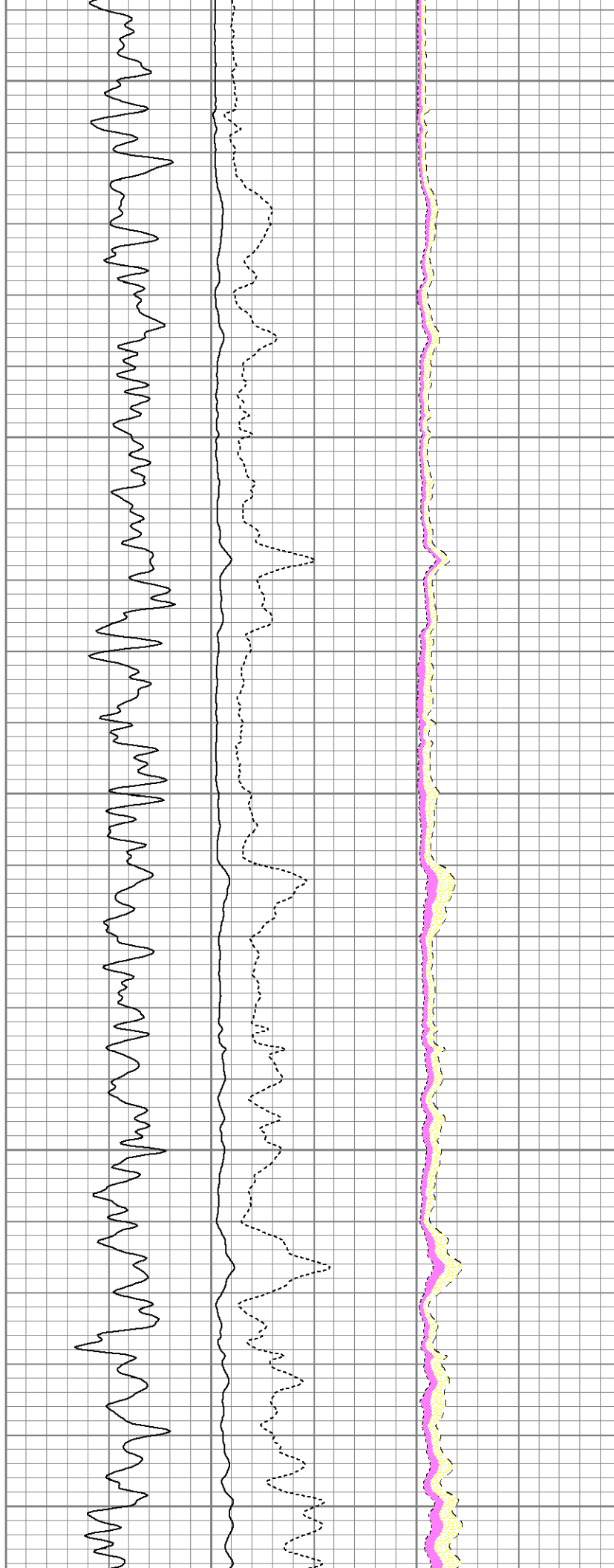


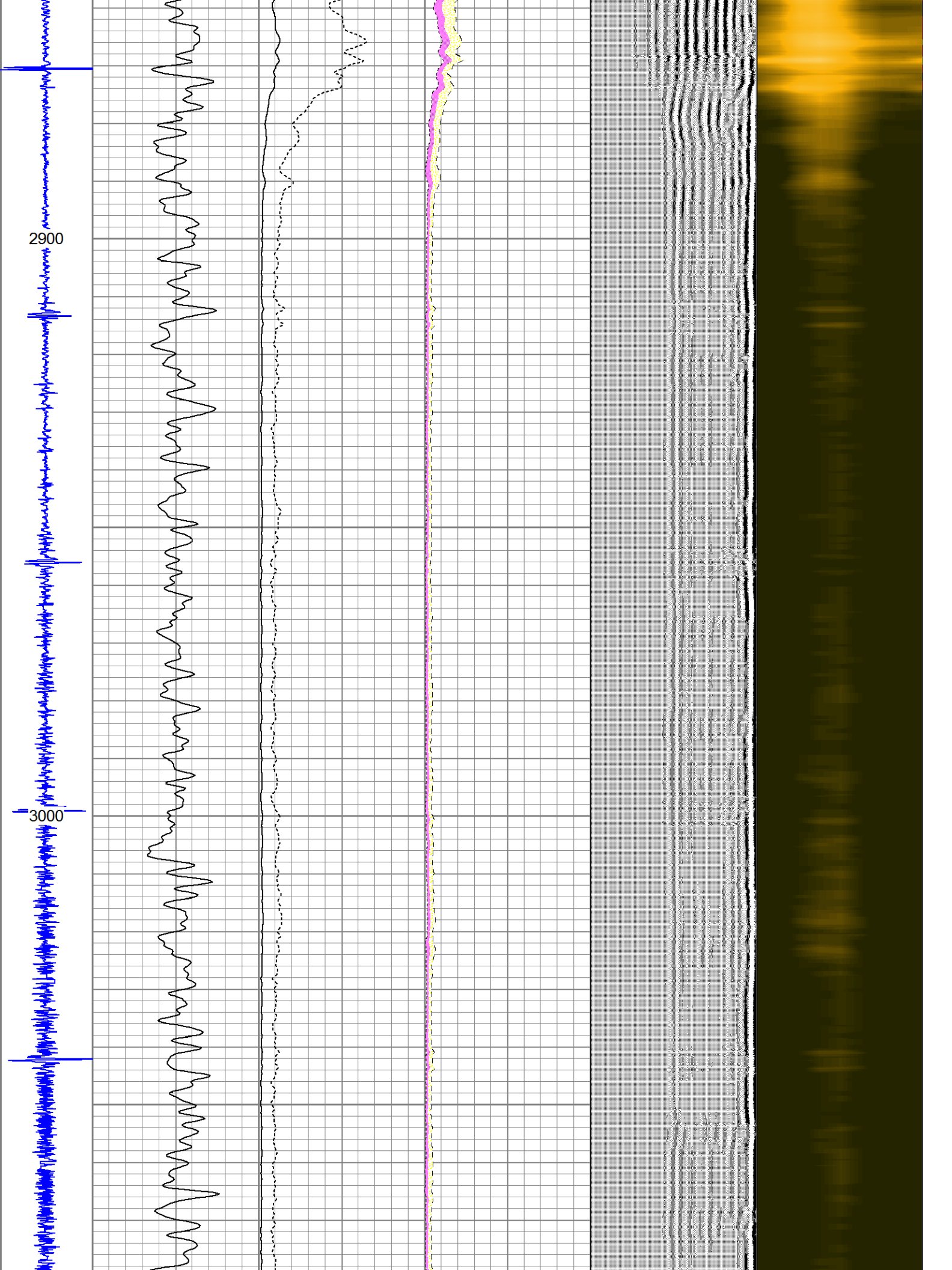


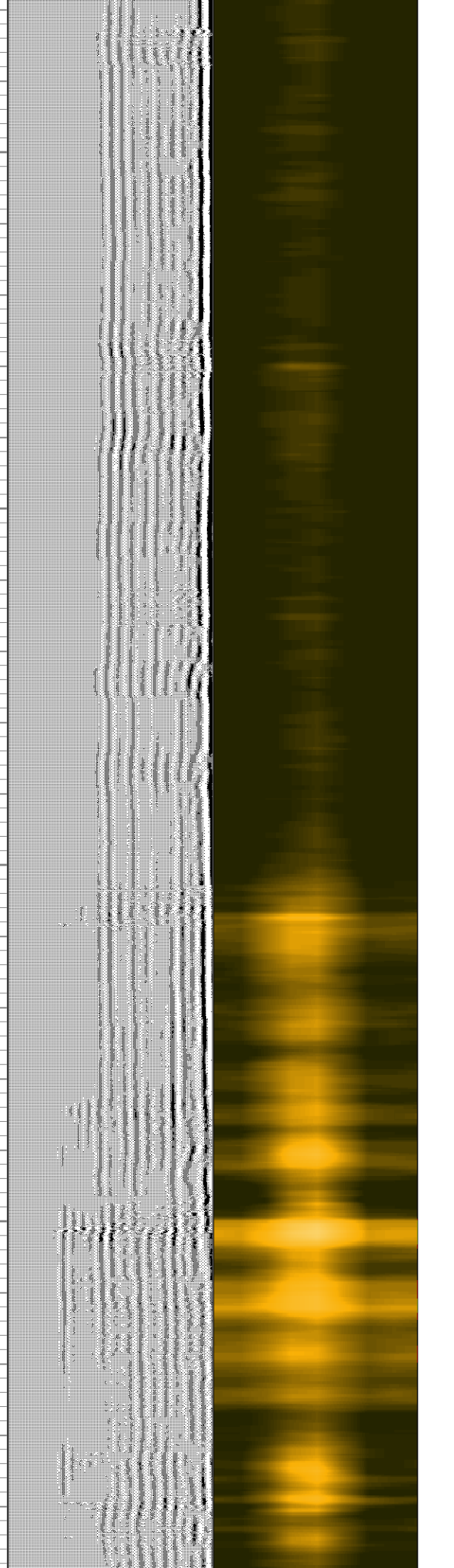
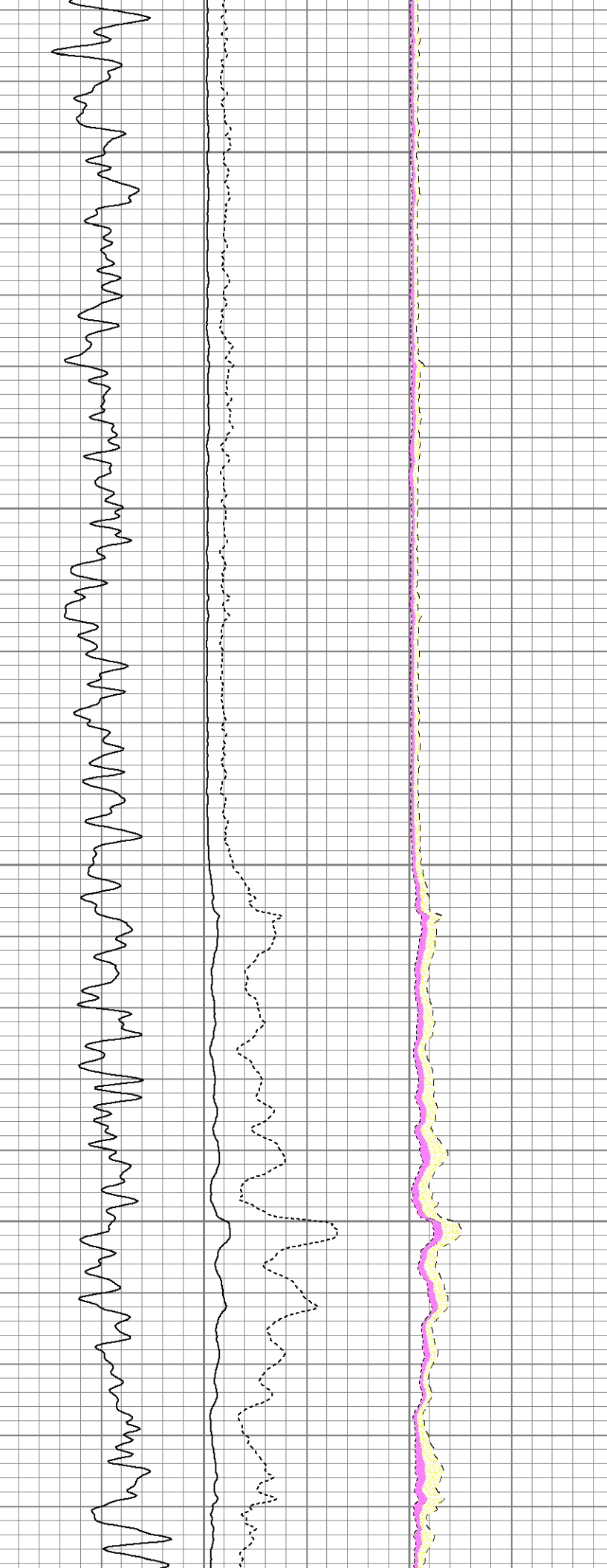
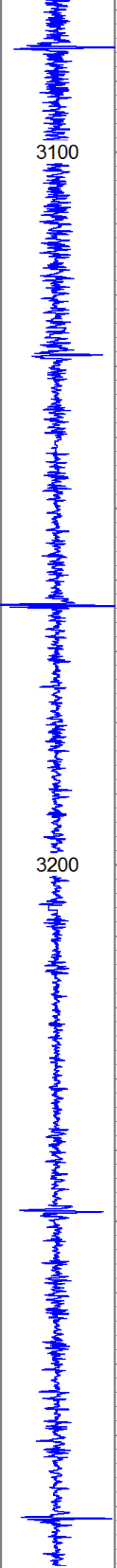


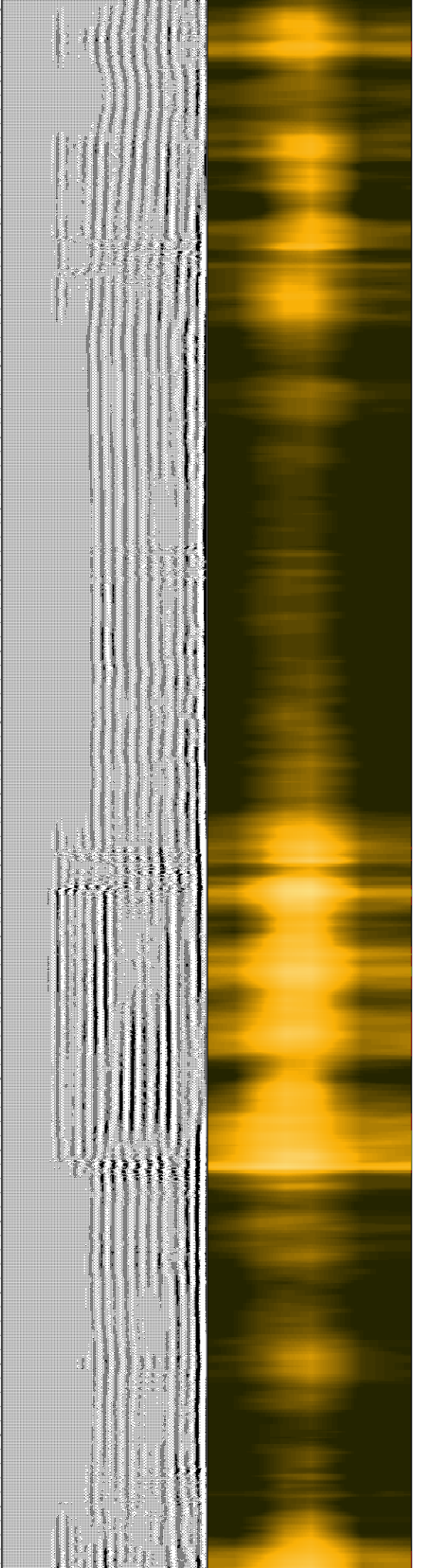
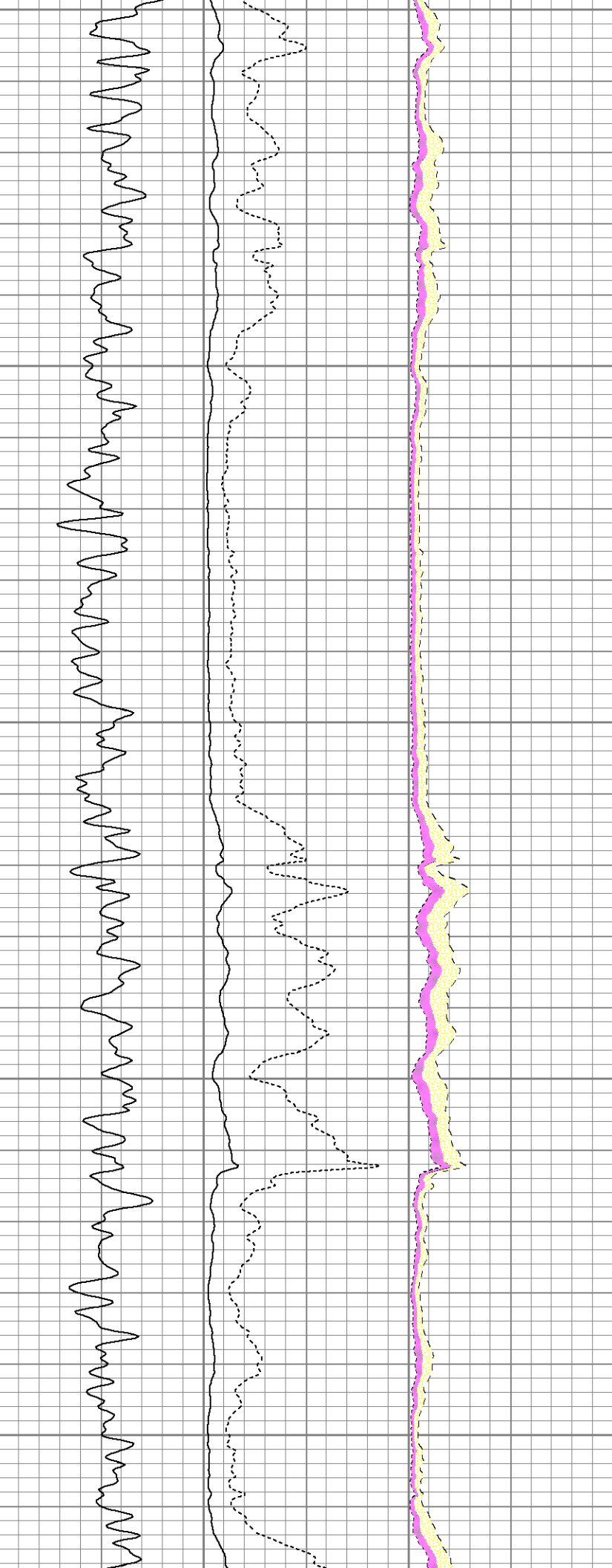
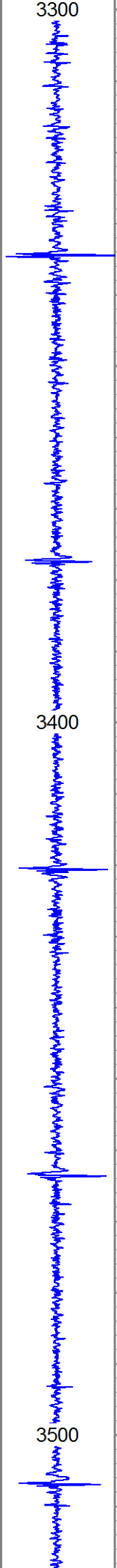
2700

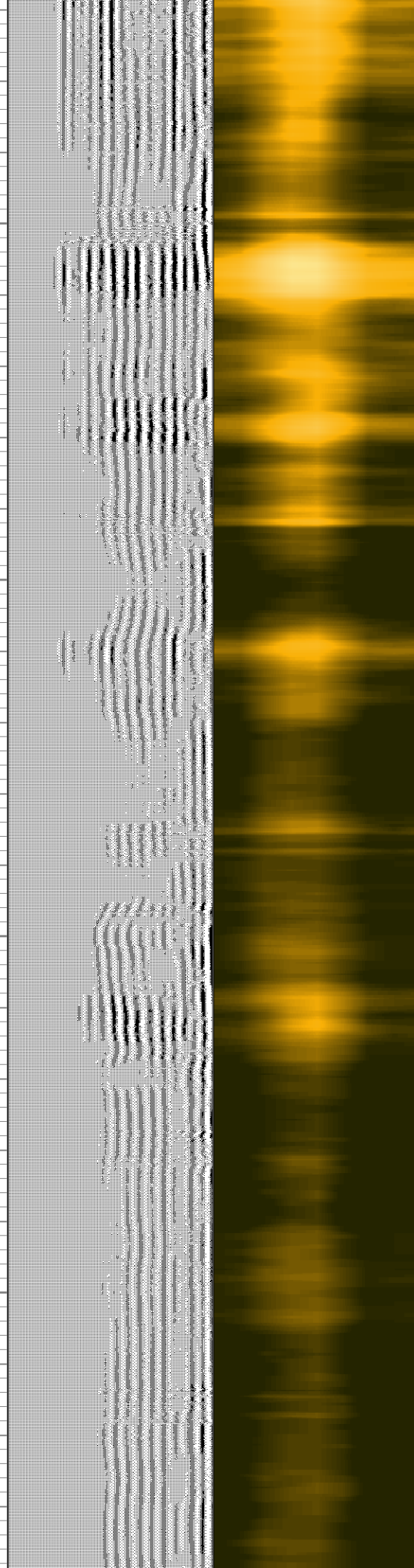
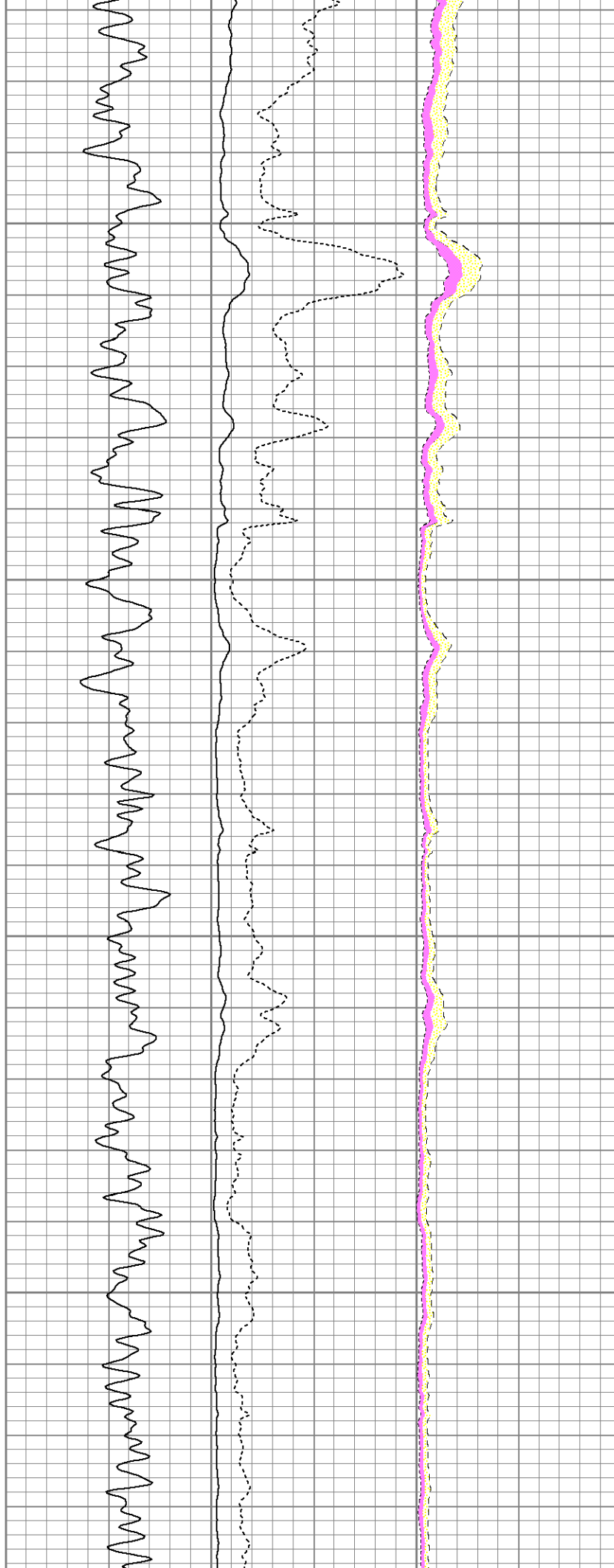
2800

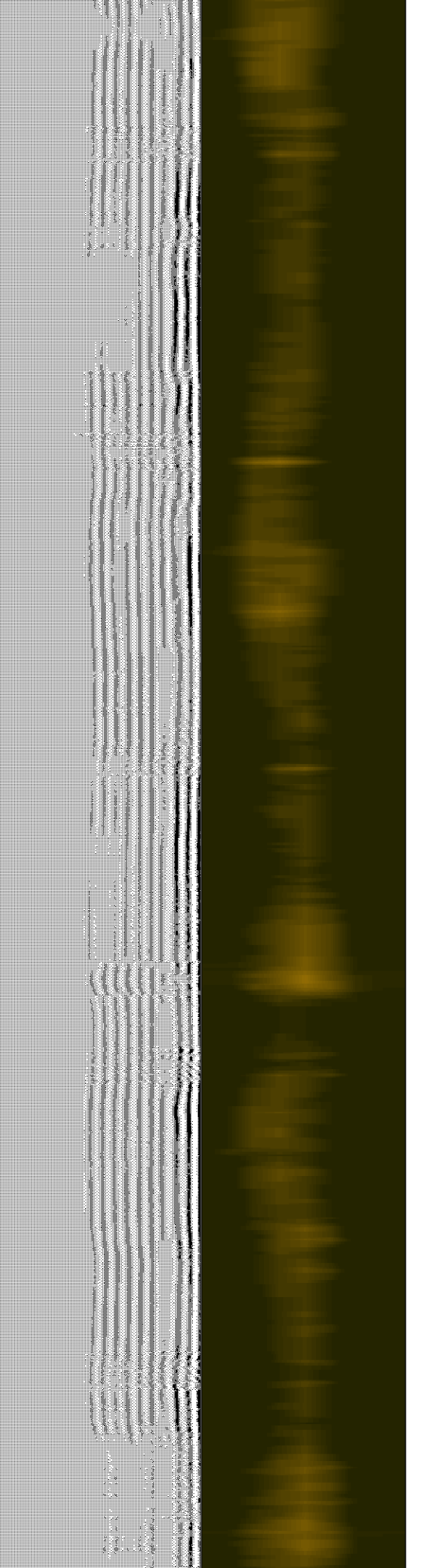


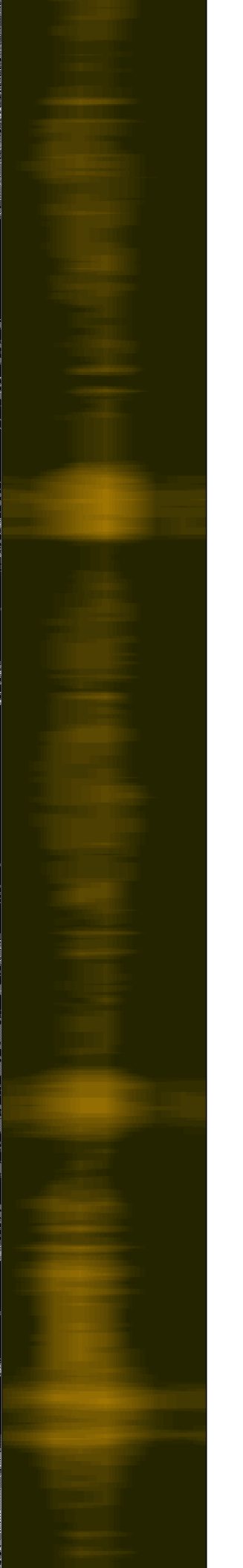
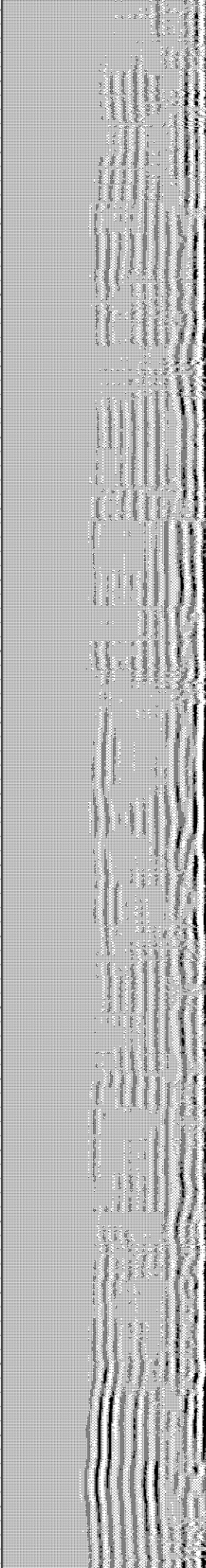
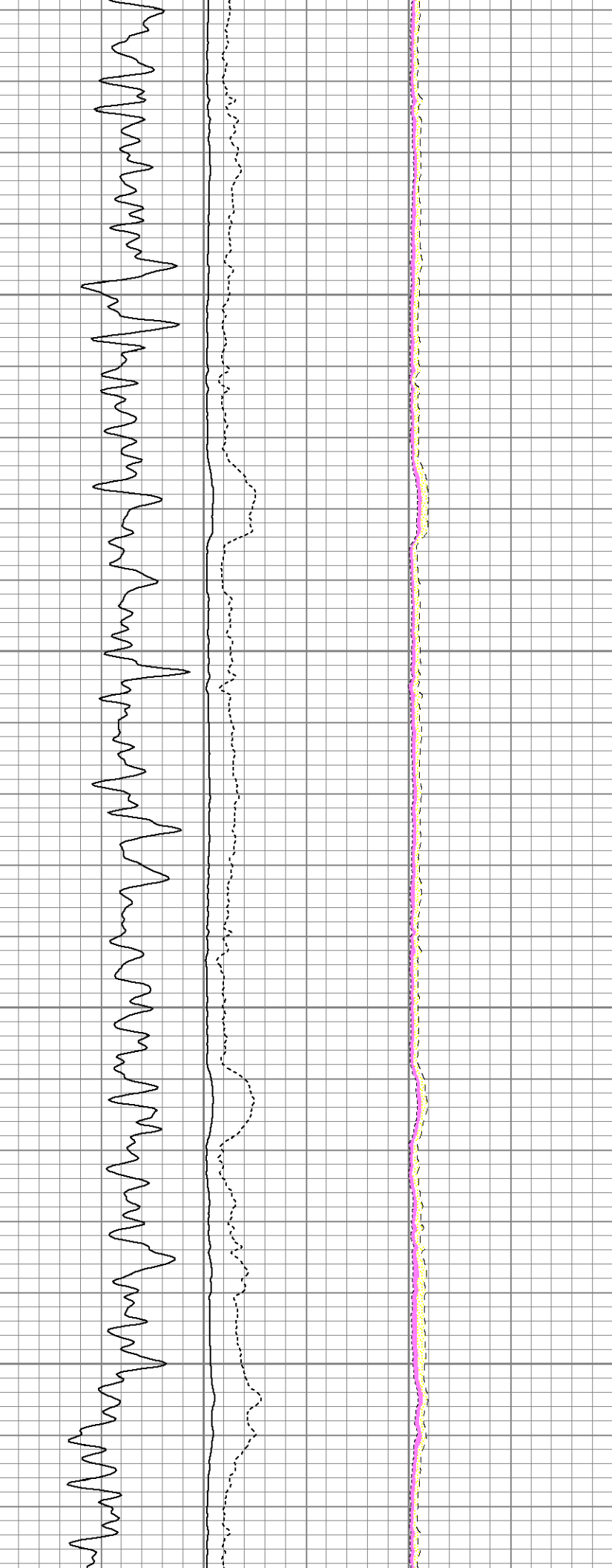
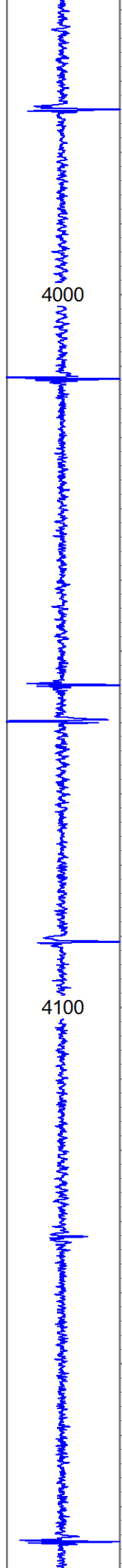


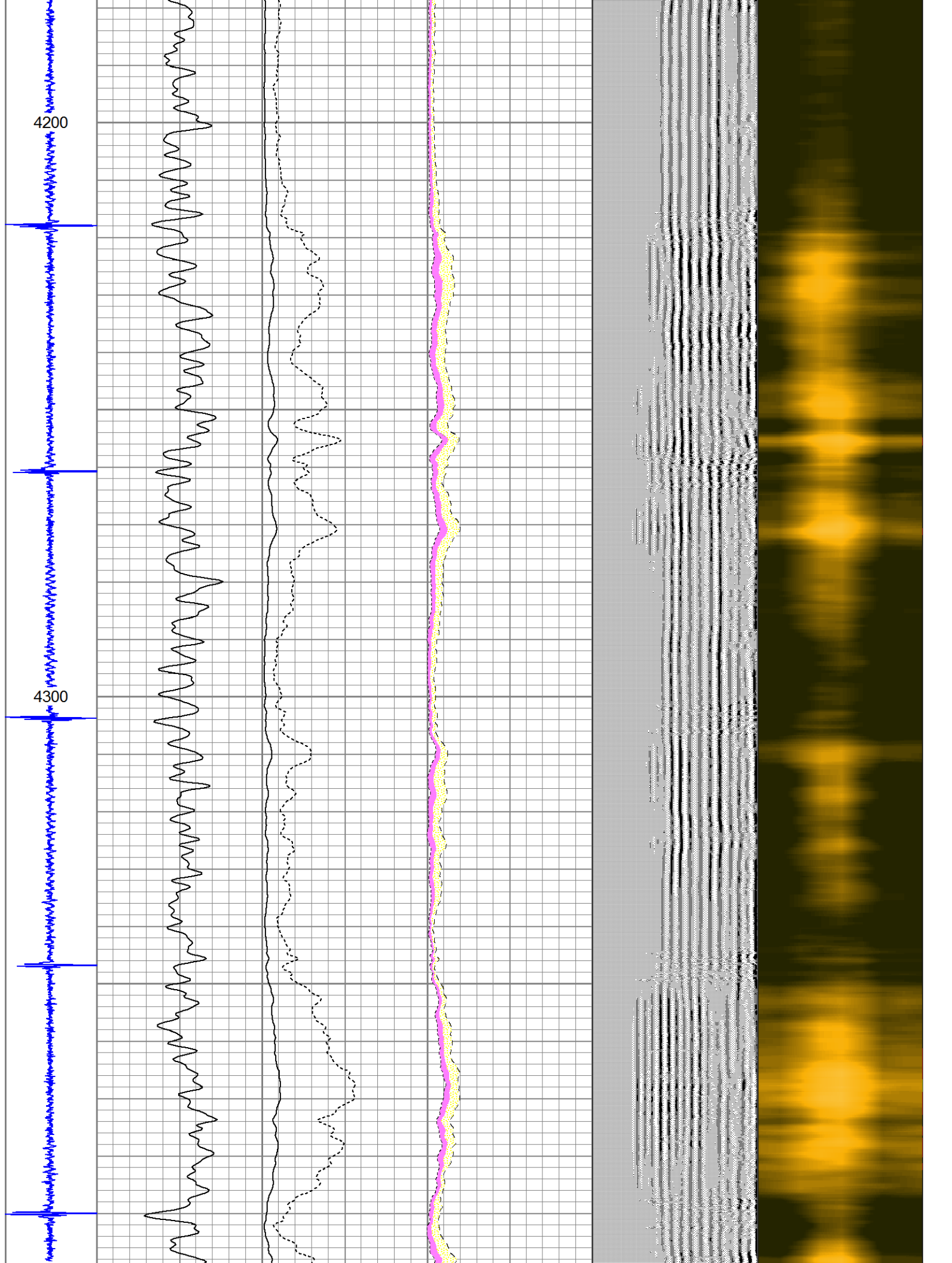








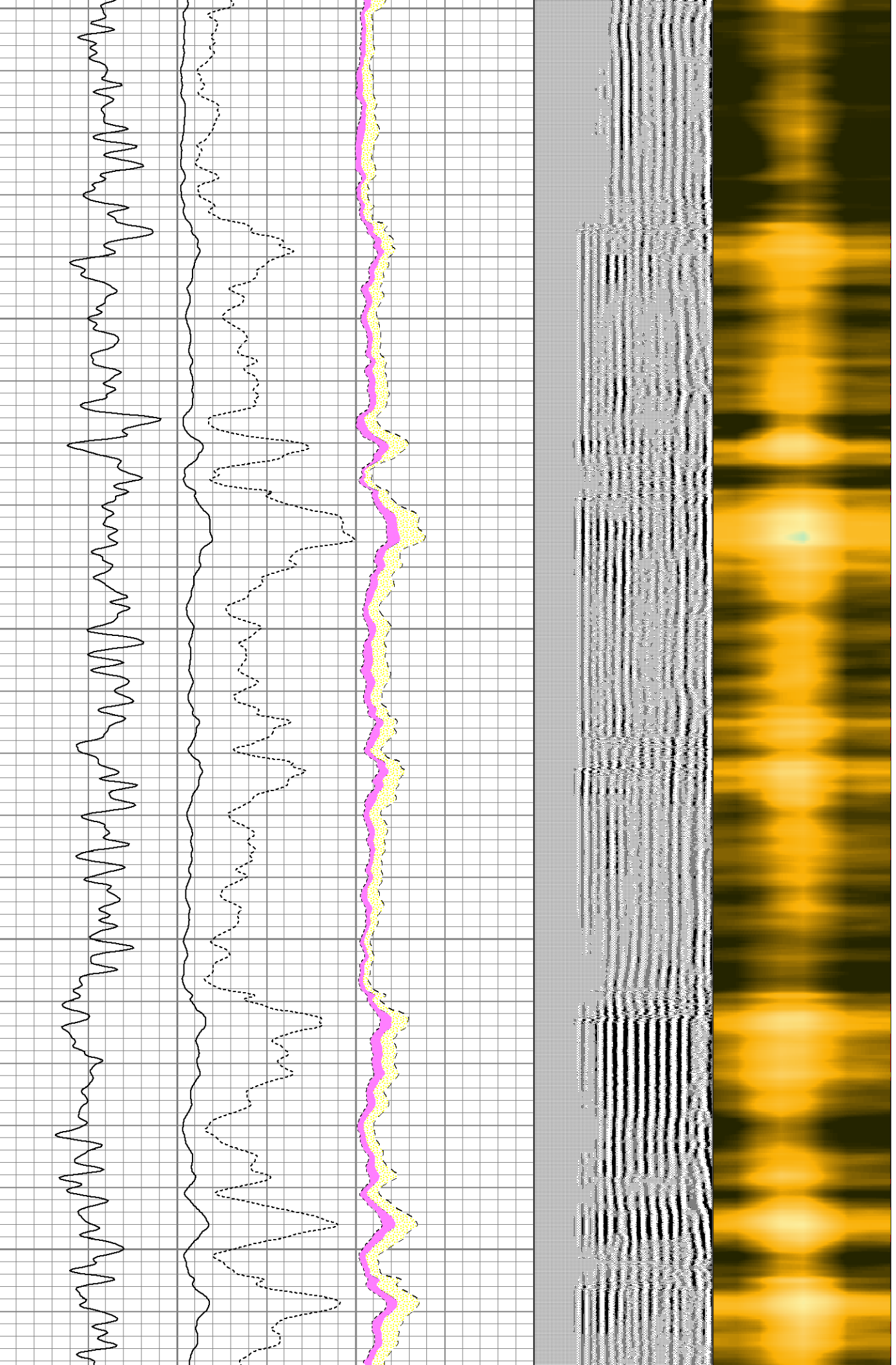


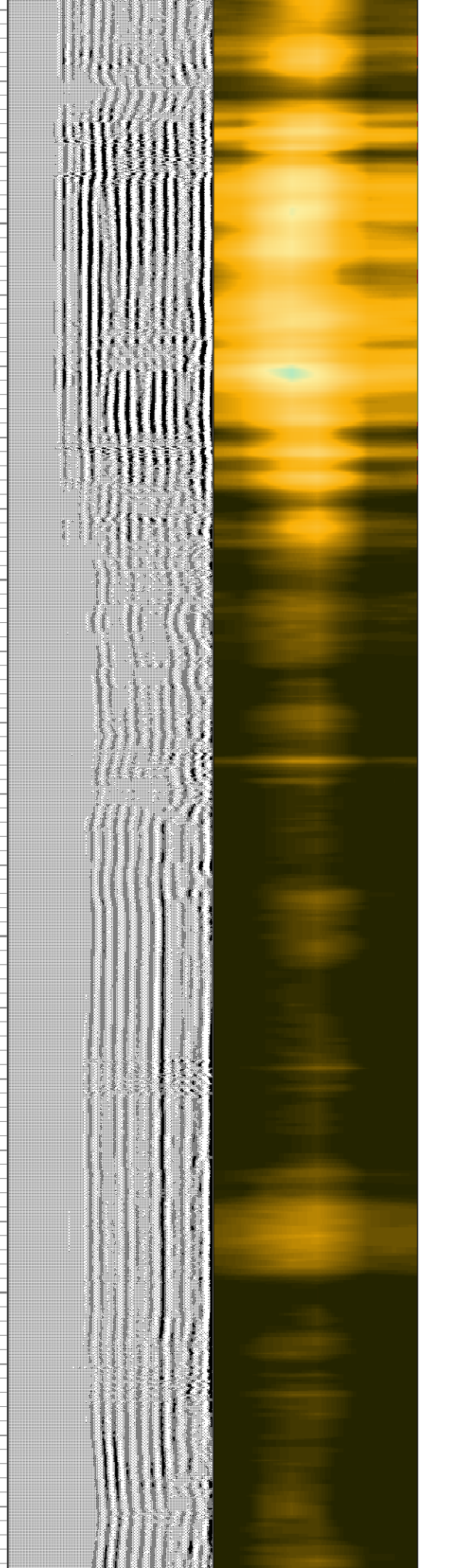
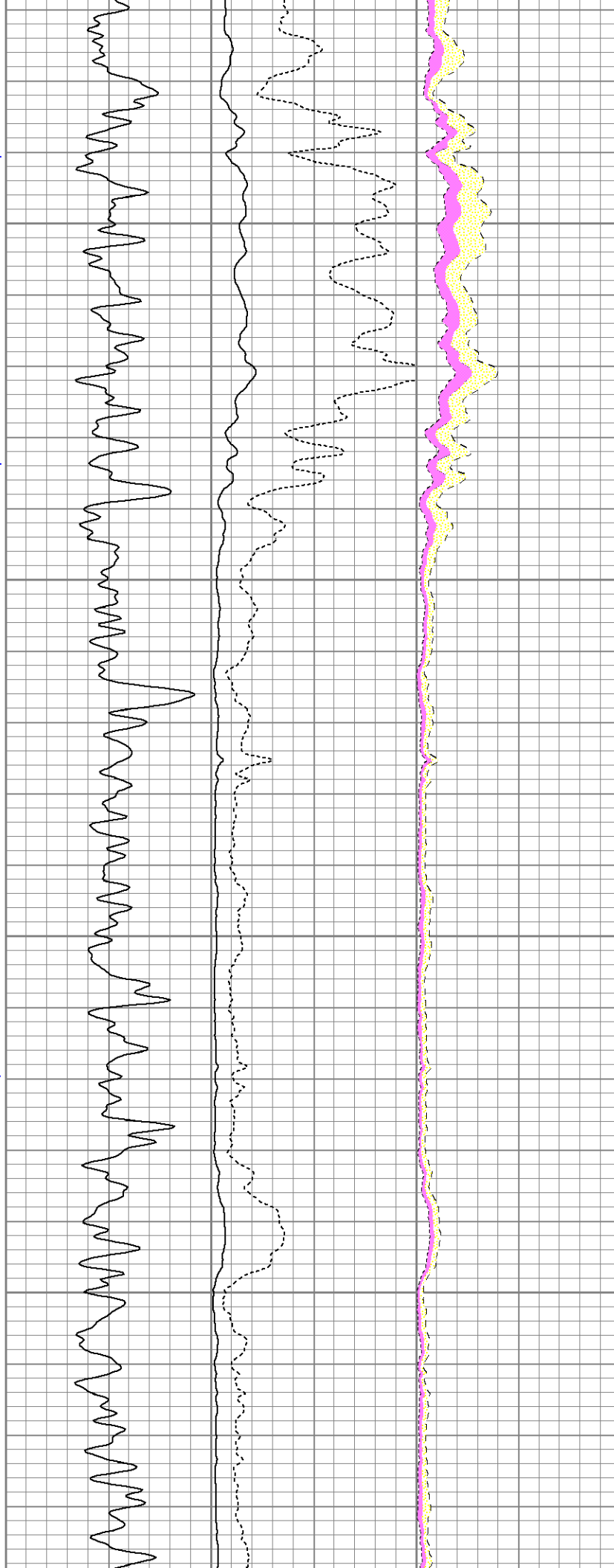


4400

4500

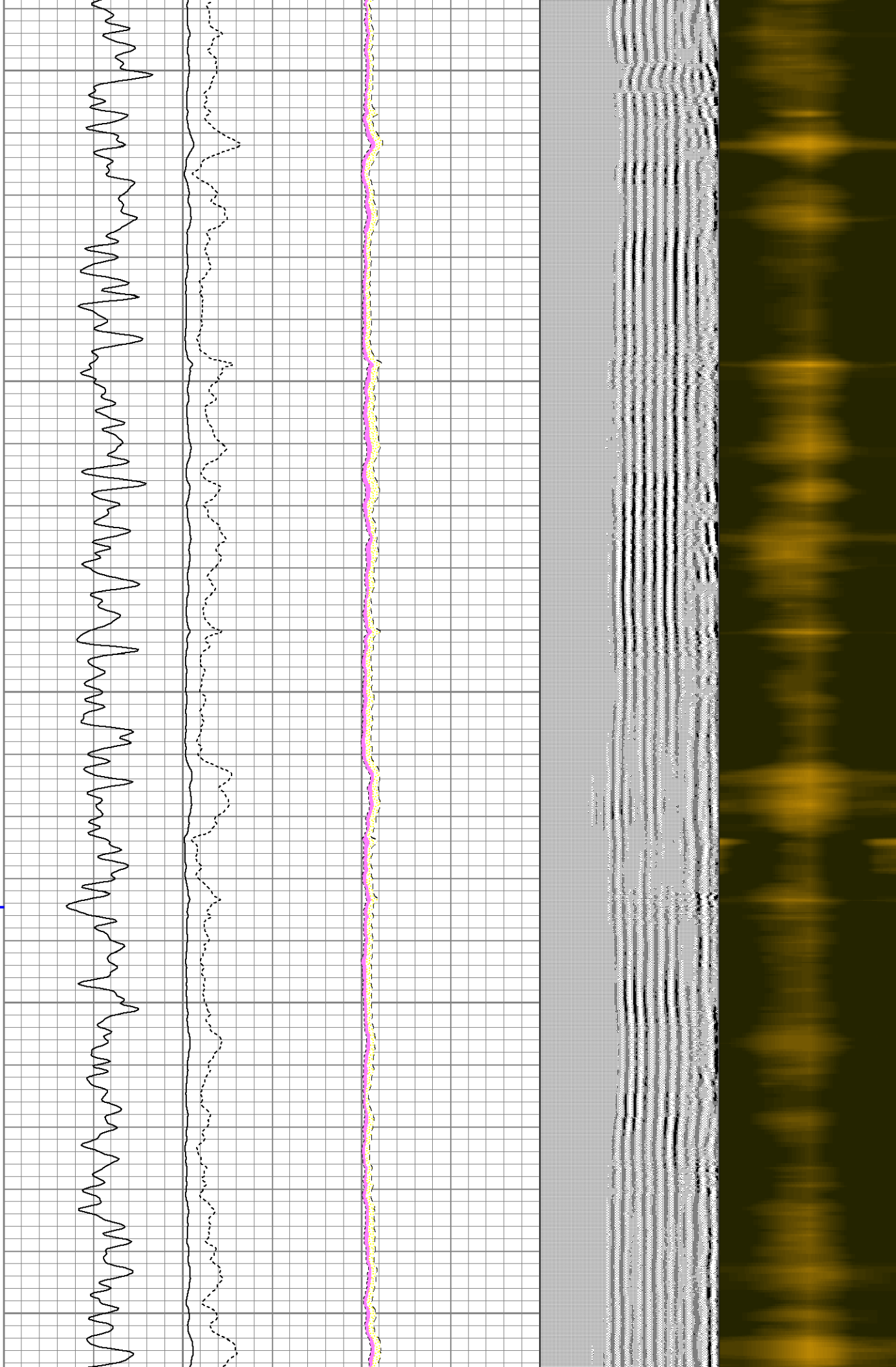
4600





4900

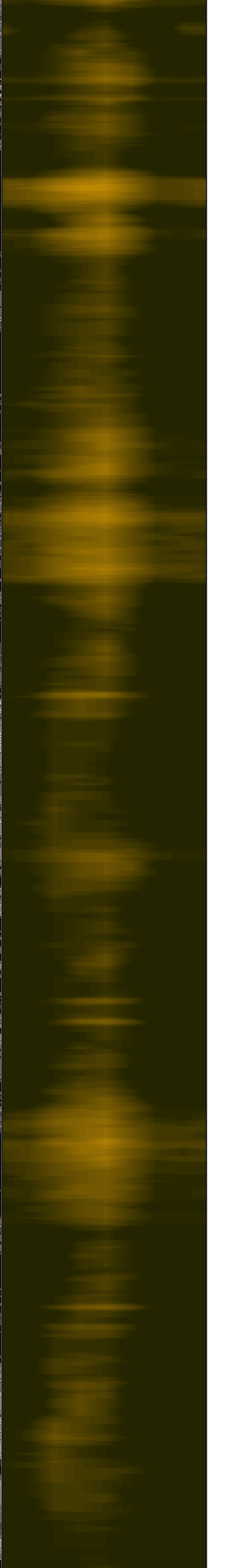
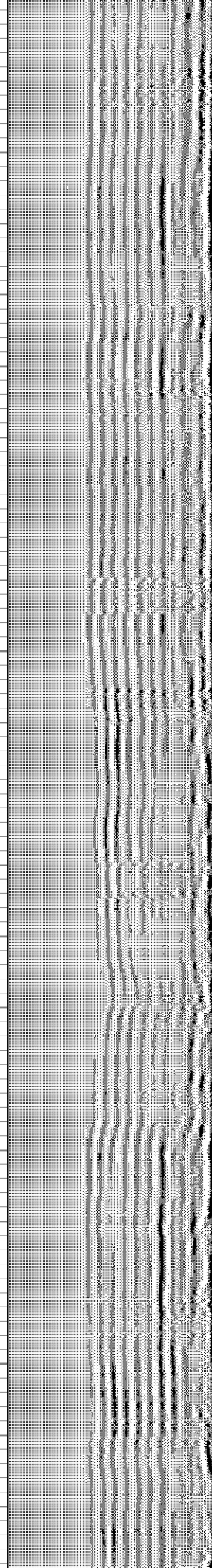
5000

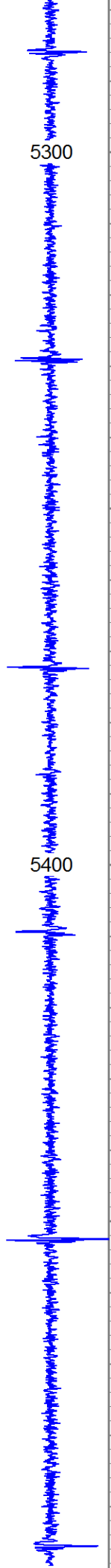




5100

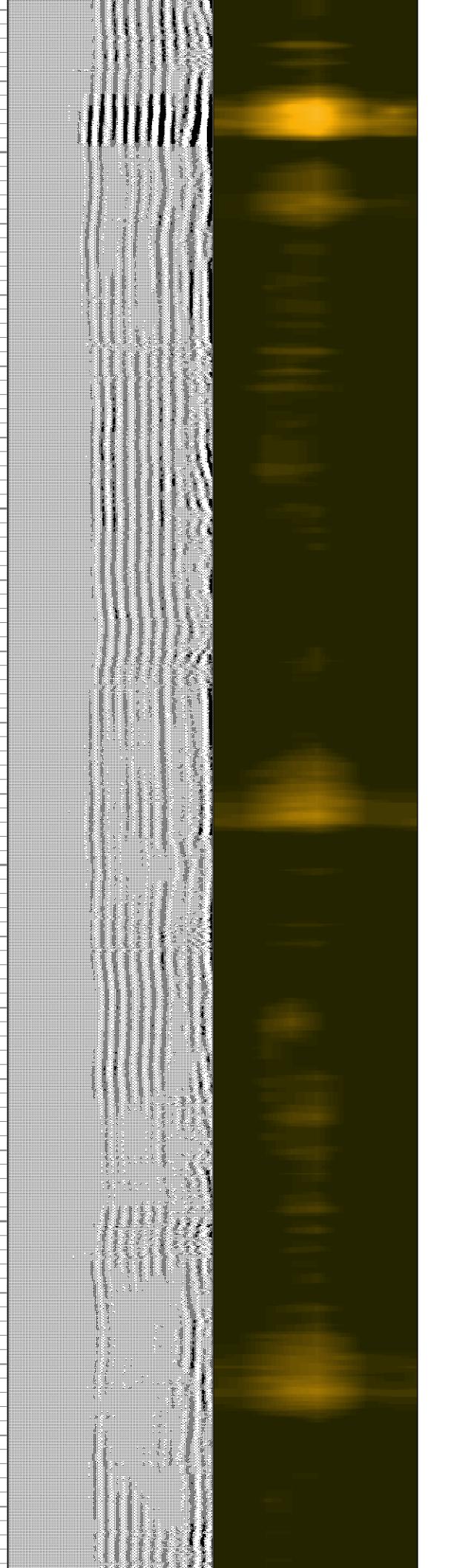
5200



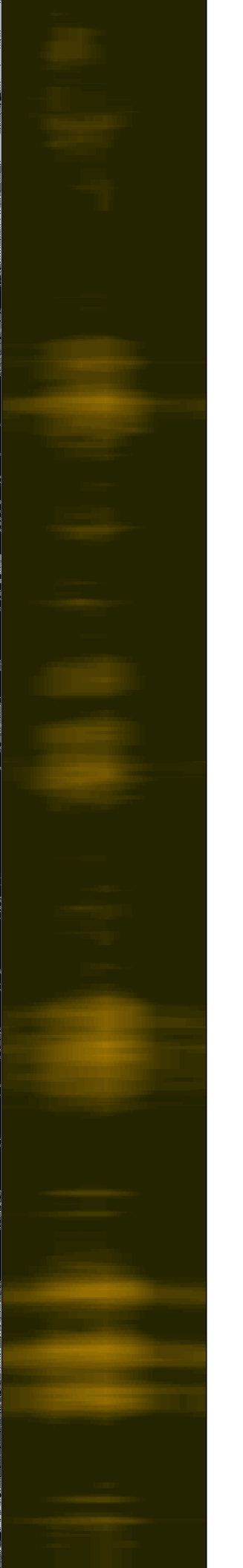
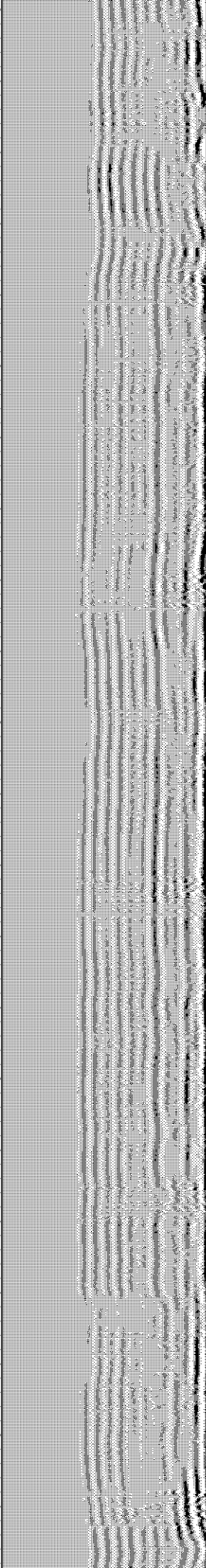
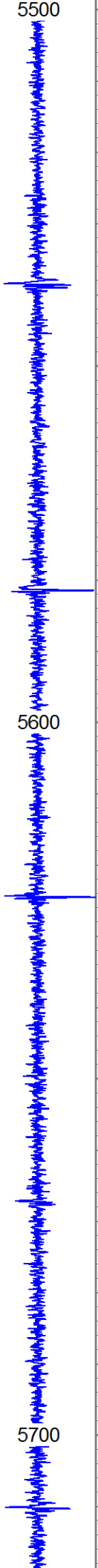


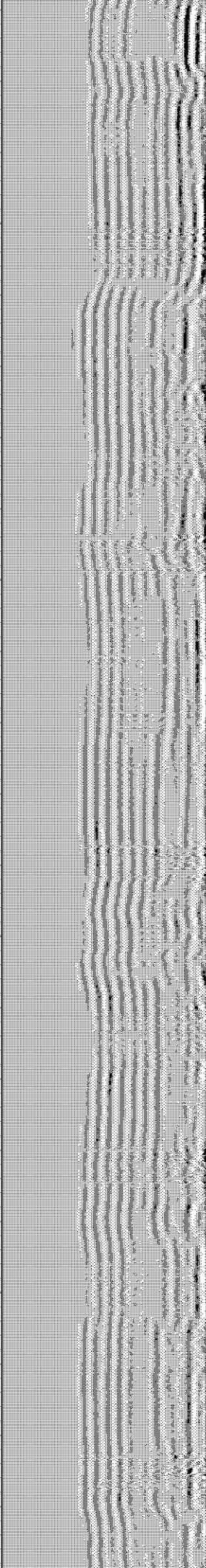
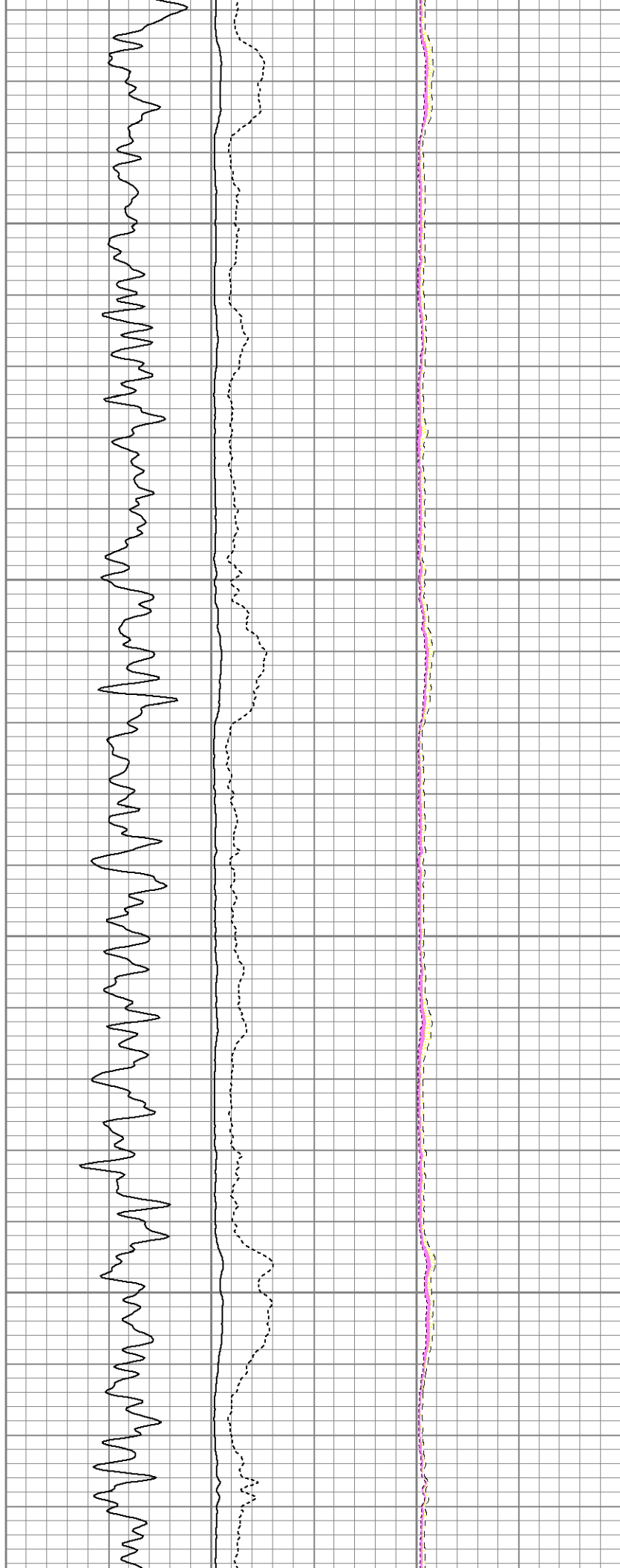
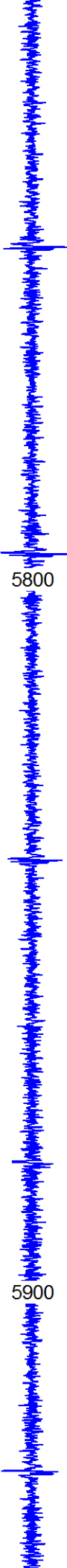
5300

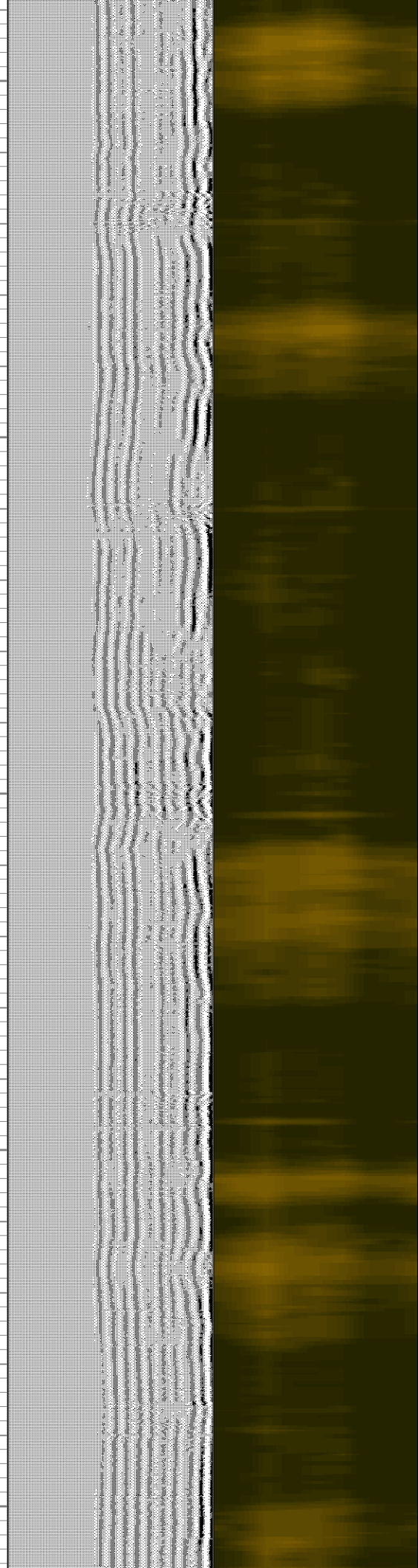
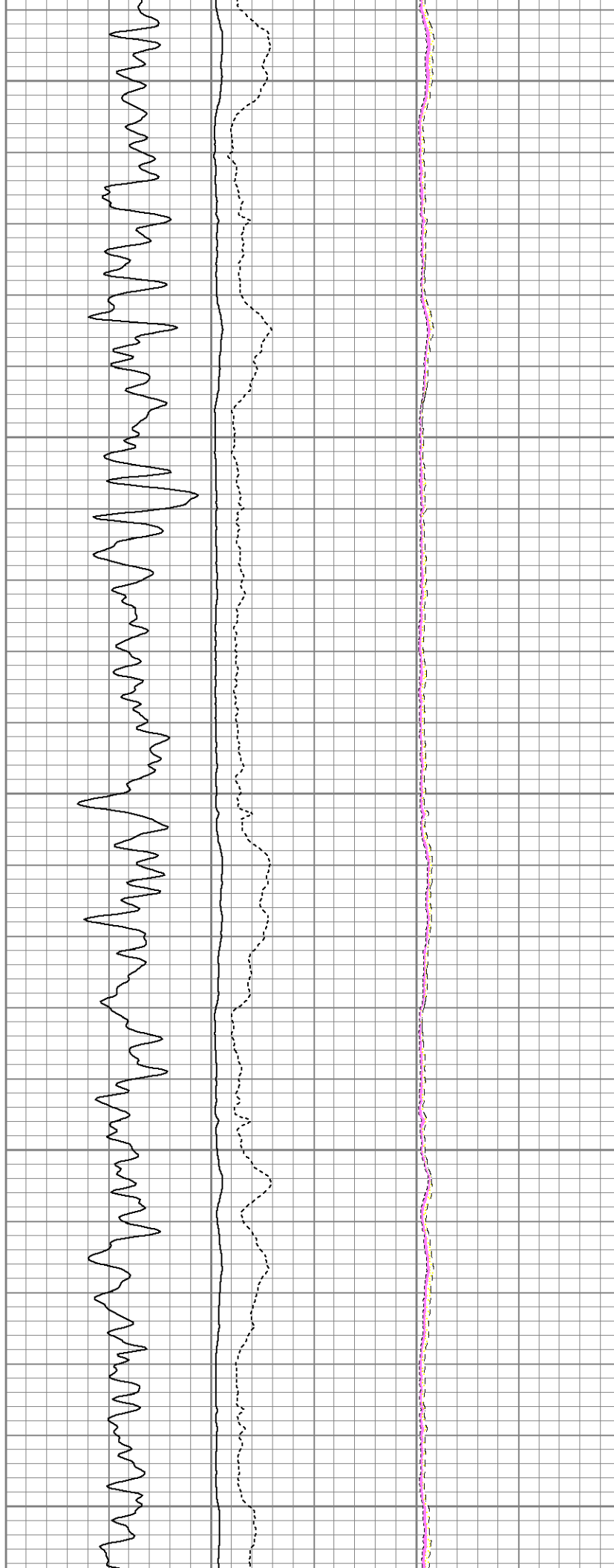
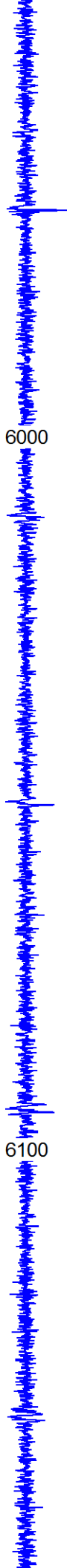
5400



5500

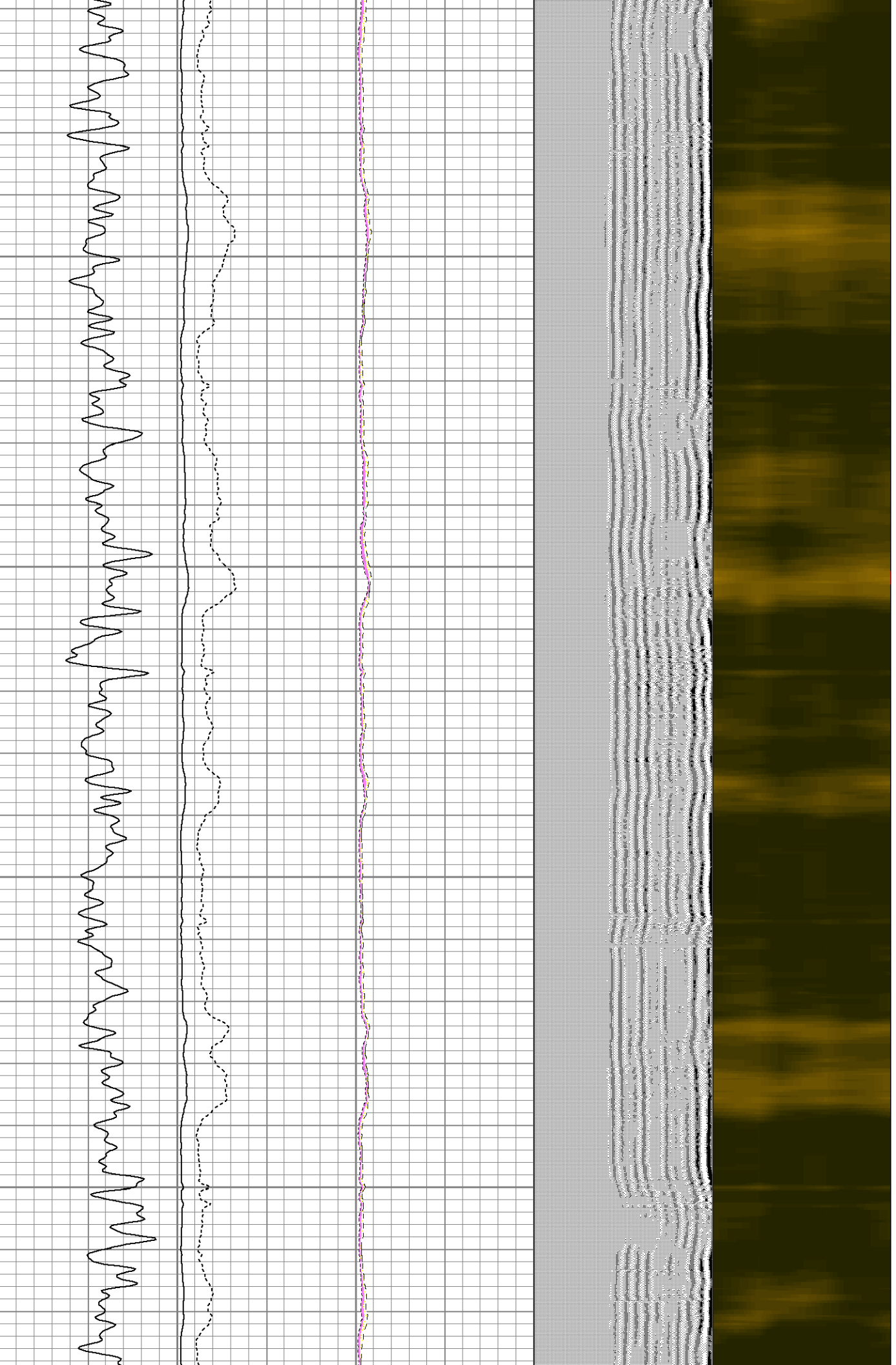






6200

6300



6400

6500

