

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10218495	CENTRALIZED
1	1	GR/CCL	1355XA	10580209	CENTRALIZED

PRIMARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014

Plotted: Mon Dec 29 19:36:24 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: D:\WELLDATA\WPX\GM 332-12\012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 27.000 ft BOTTOM DEPTH: 6644.043 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"

RAL CCL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM

ANALOG RAL PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	175	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-66	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

CURVE DESCRIPTION REPORT

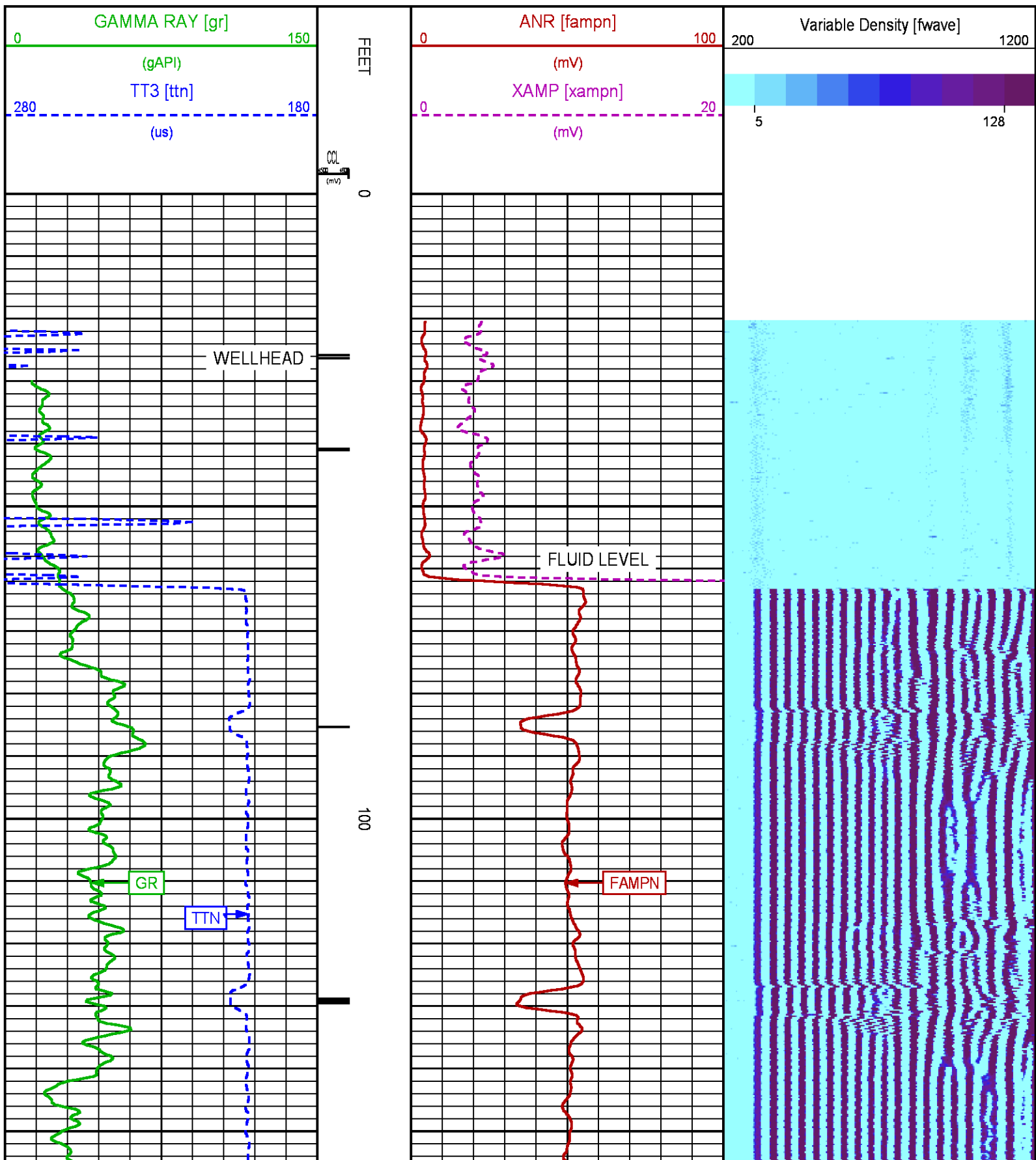
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 29 18:58:00 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 29 18:58:08 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 29 18:58:11 2014	FAR WAVE FORM
F1:GR	Dec 29 18:58:11 2014	GAMMA RAY
F1:TTN	Dec 29 18:58:15 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 29 18:58:15 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

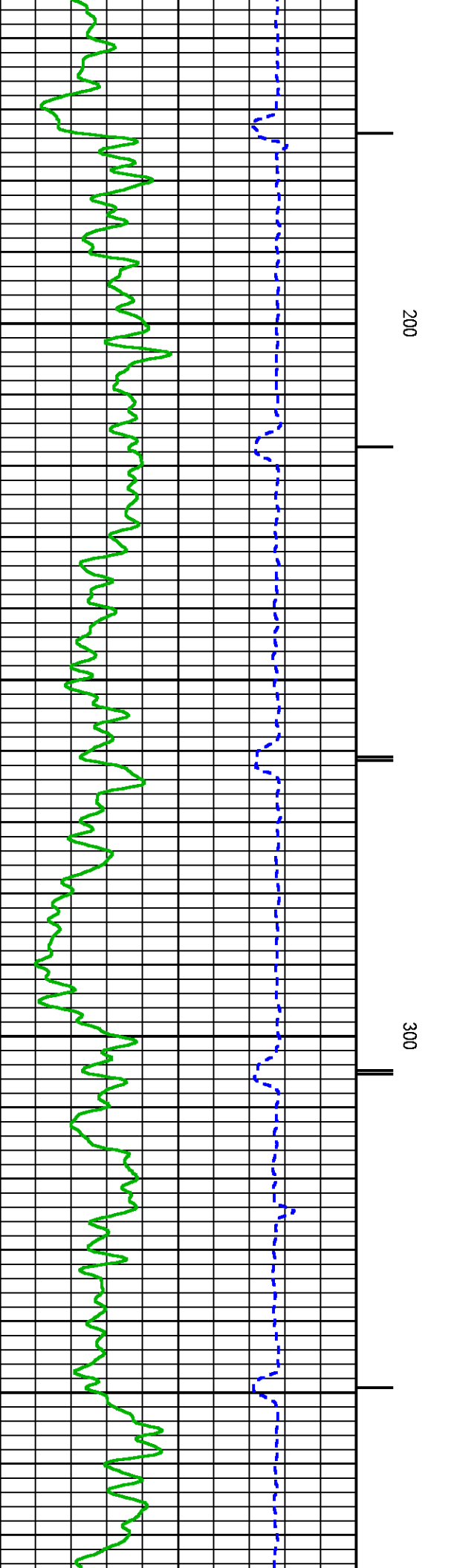
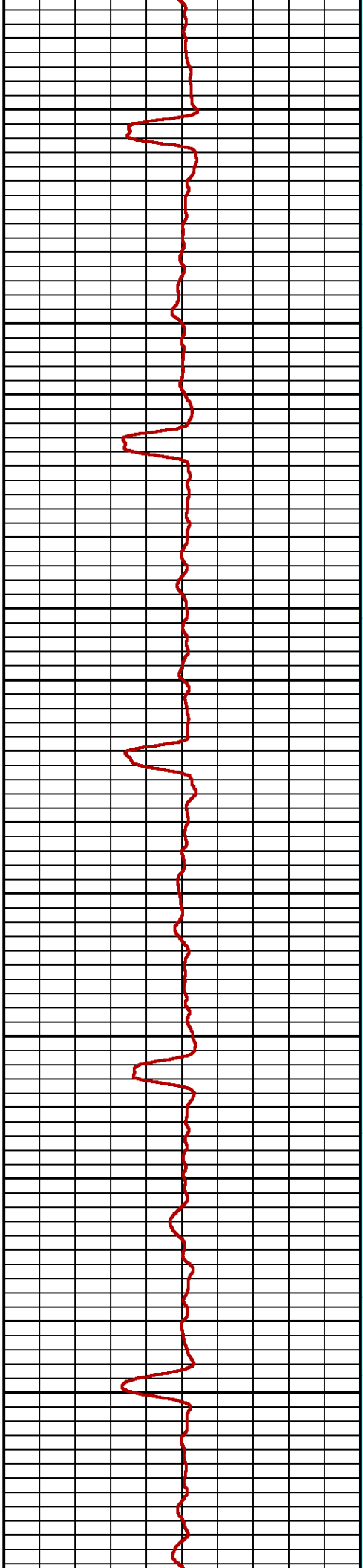
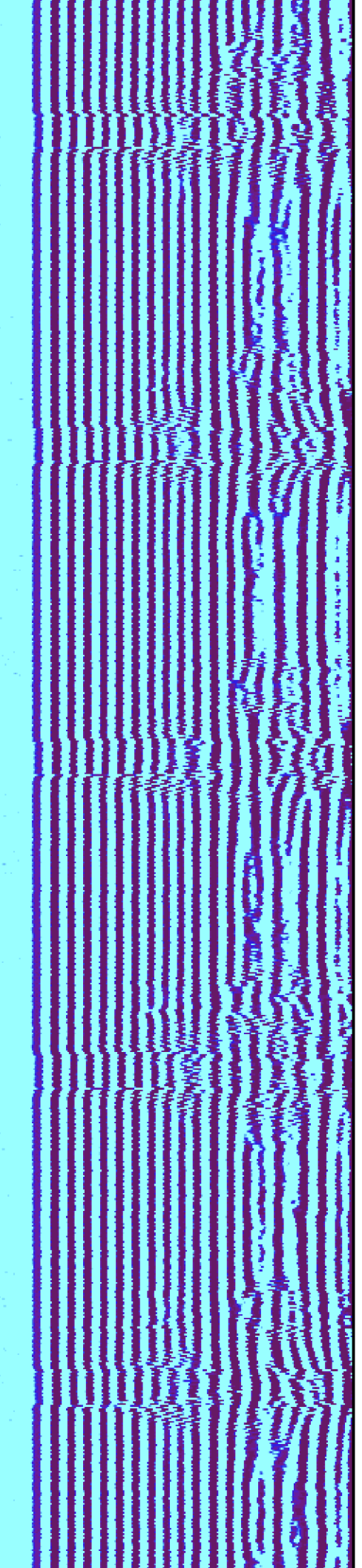
CURVE MEASURE POINT OFFSET

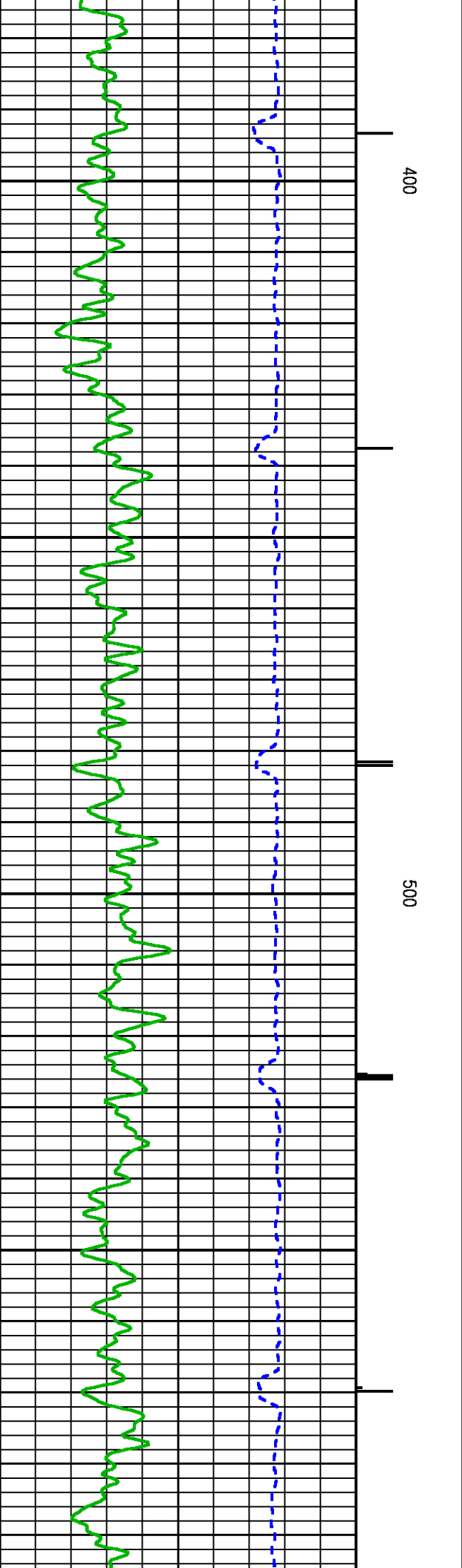
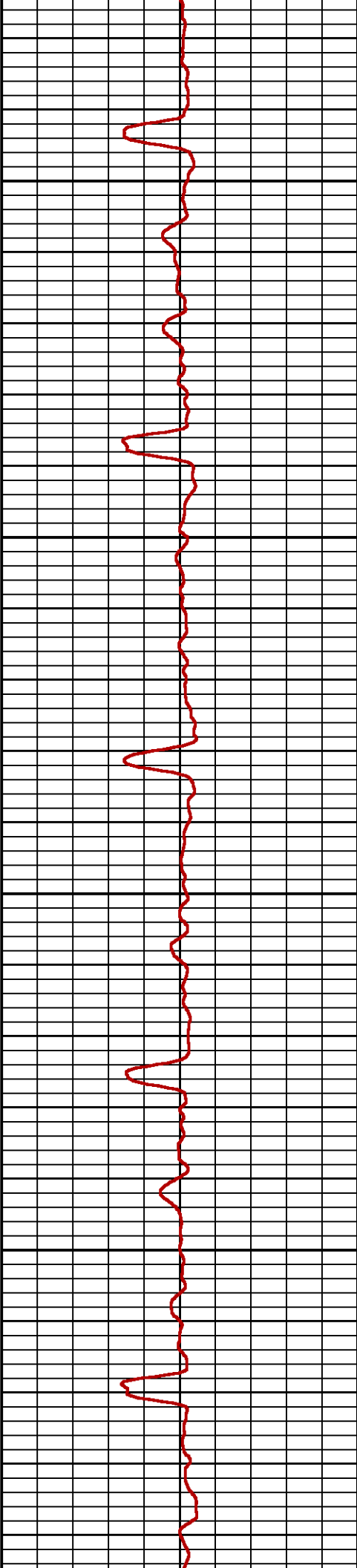
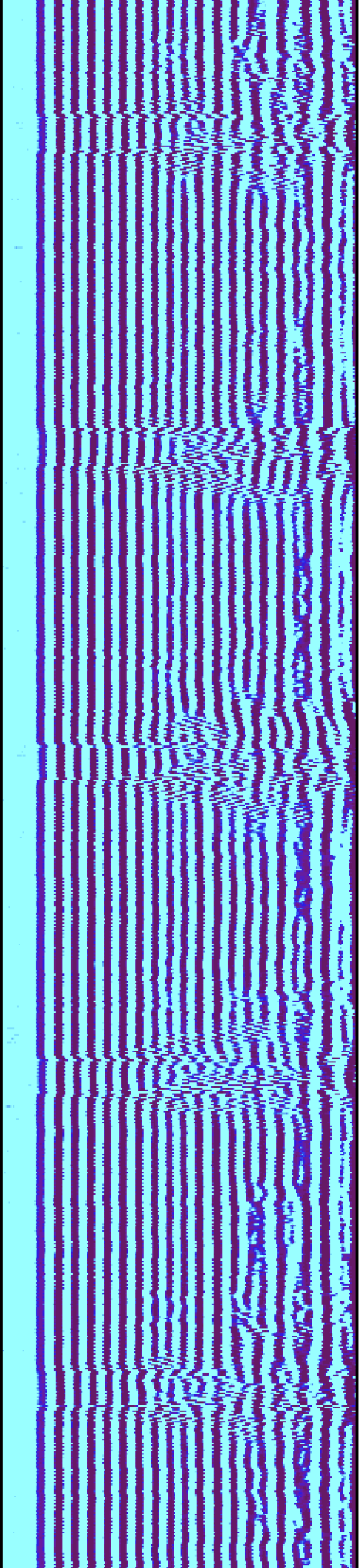
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

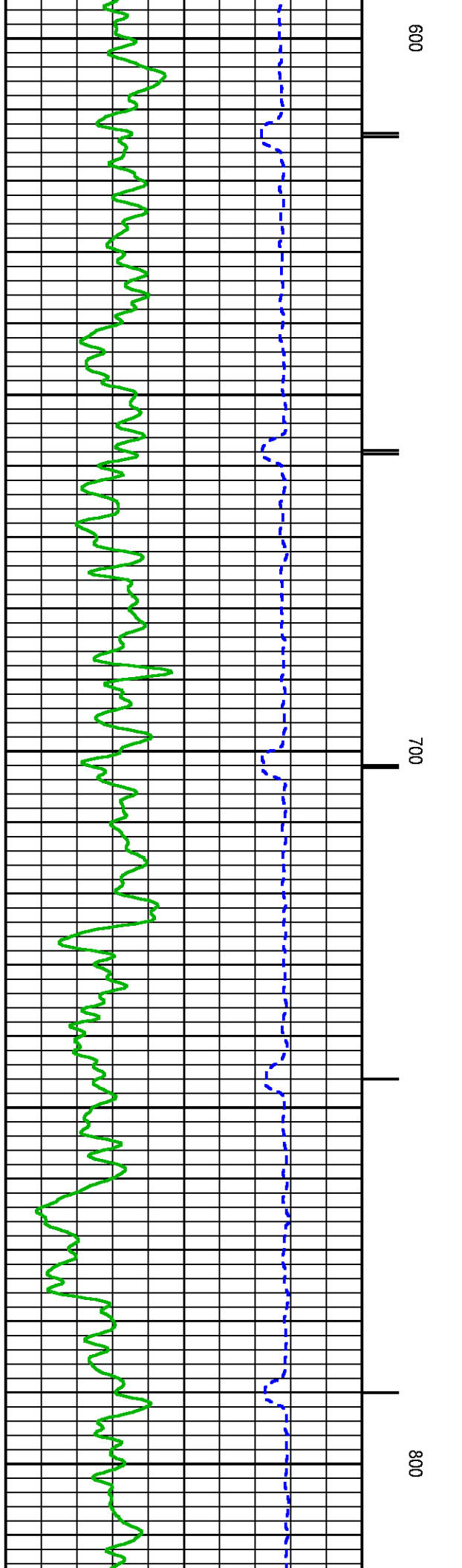
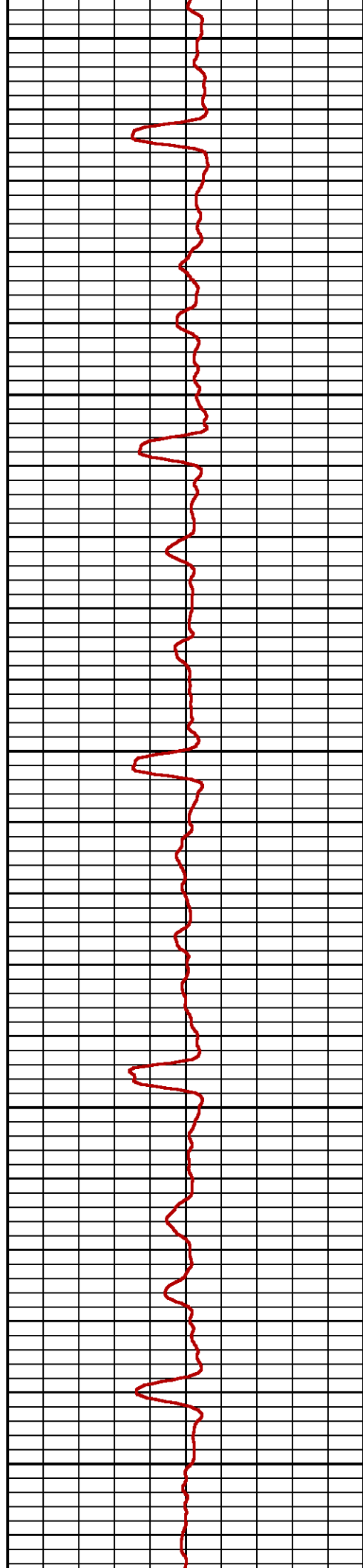
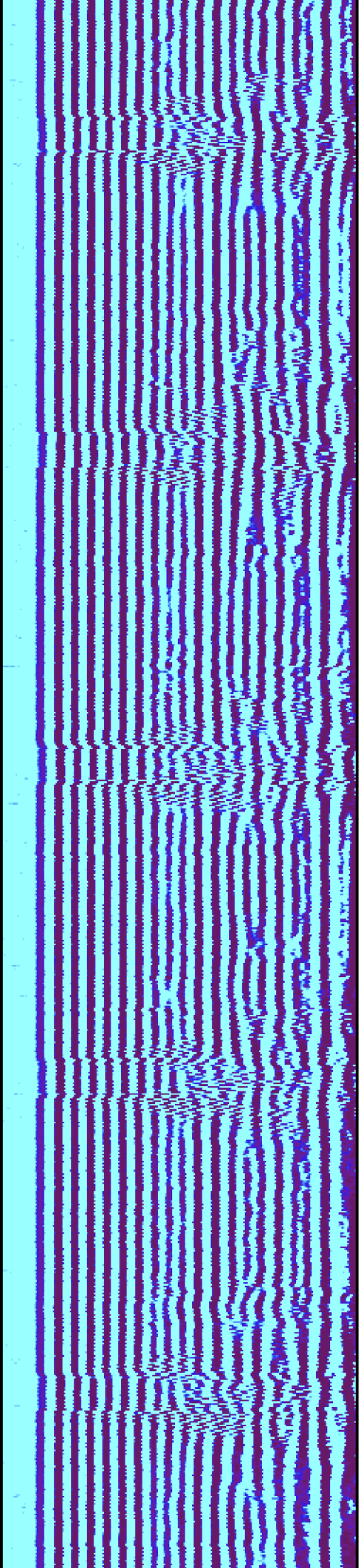
Presentation : BHI9G15WM1:D:\WELLDATA\WPX\GM 332-12\332CBL_PRIMARY.fvpdf [5"/100" Scale]
Plot Interval : 0 - 6649 Feet

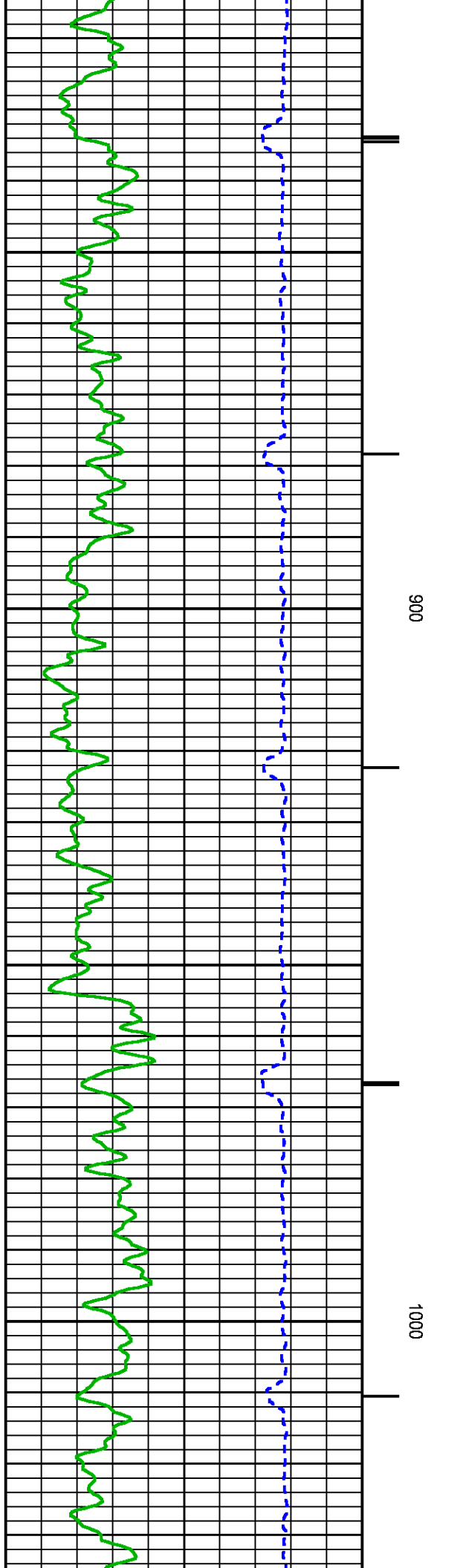
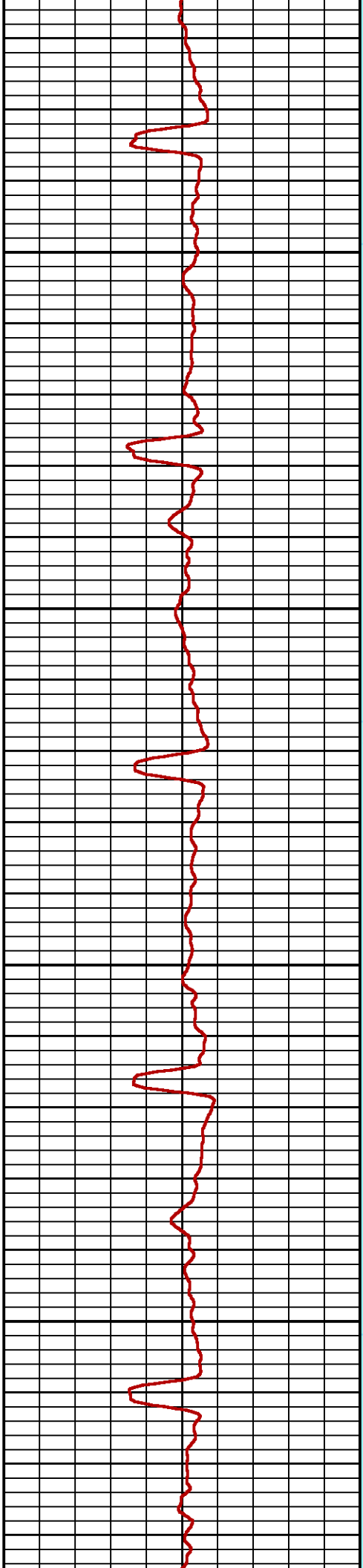
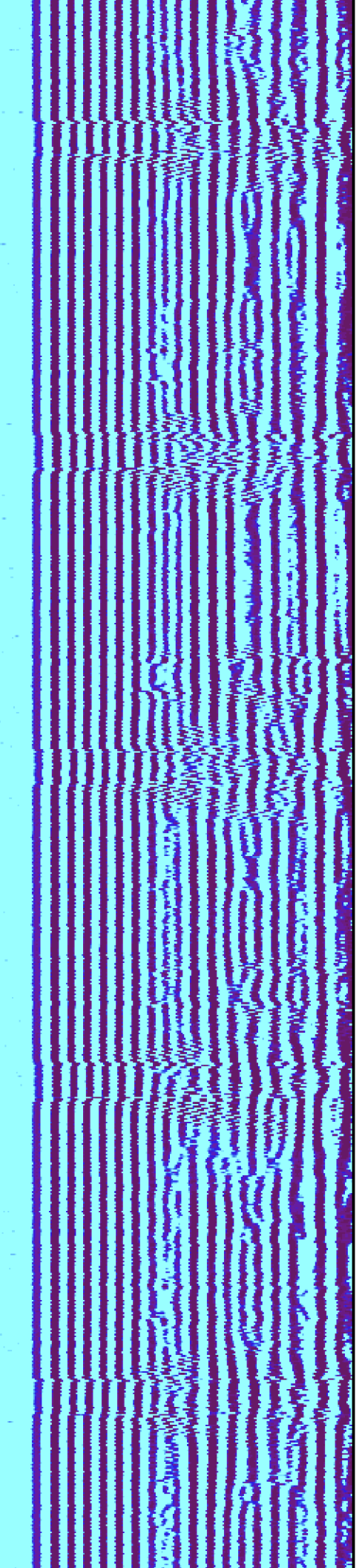
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Created On : Dec 29 18:58:00 2014
Company : WPX ENERGY
Well : GM 332-12
Field : GRAND VALLEY
File Interval : 19.25 - 6646.75 Feet
OCT : n012g

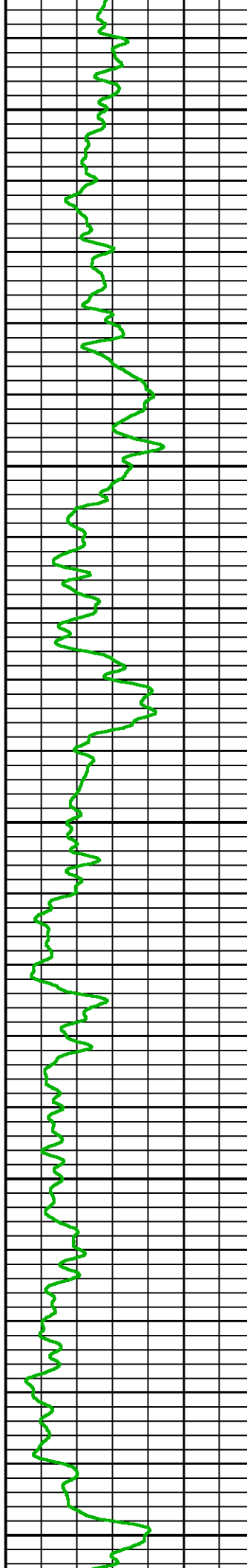
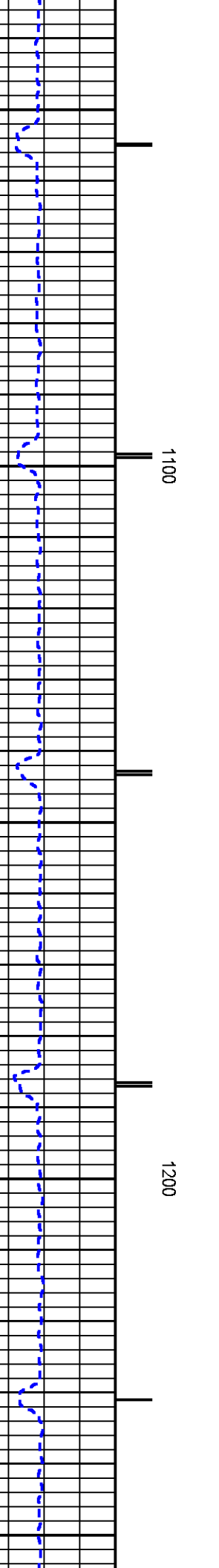
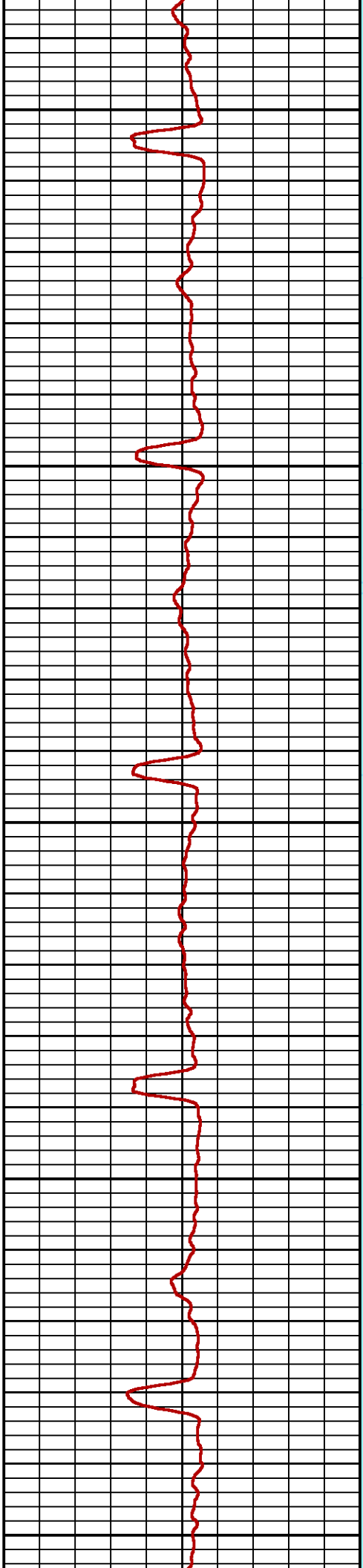
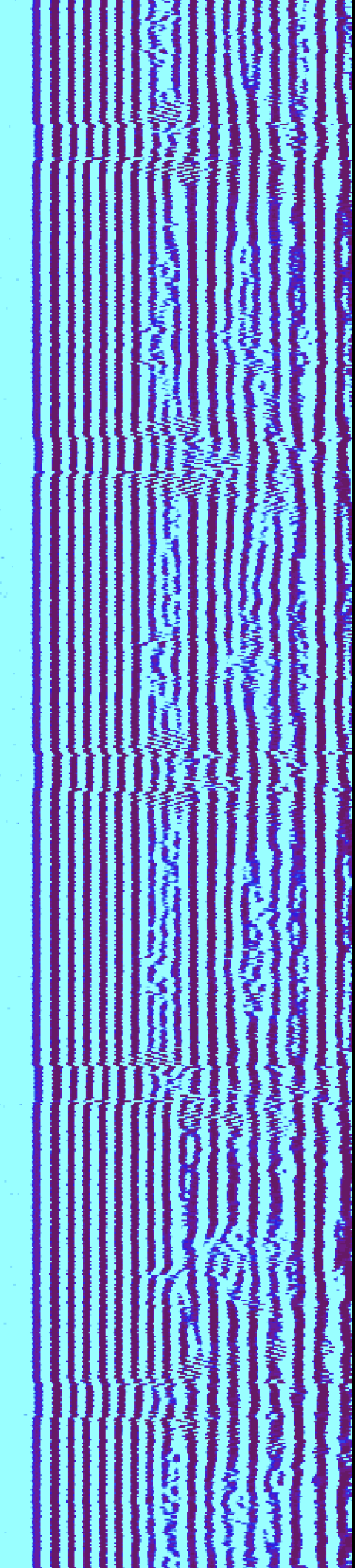


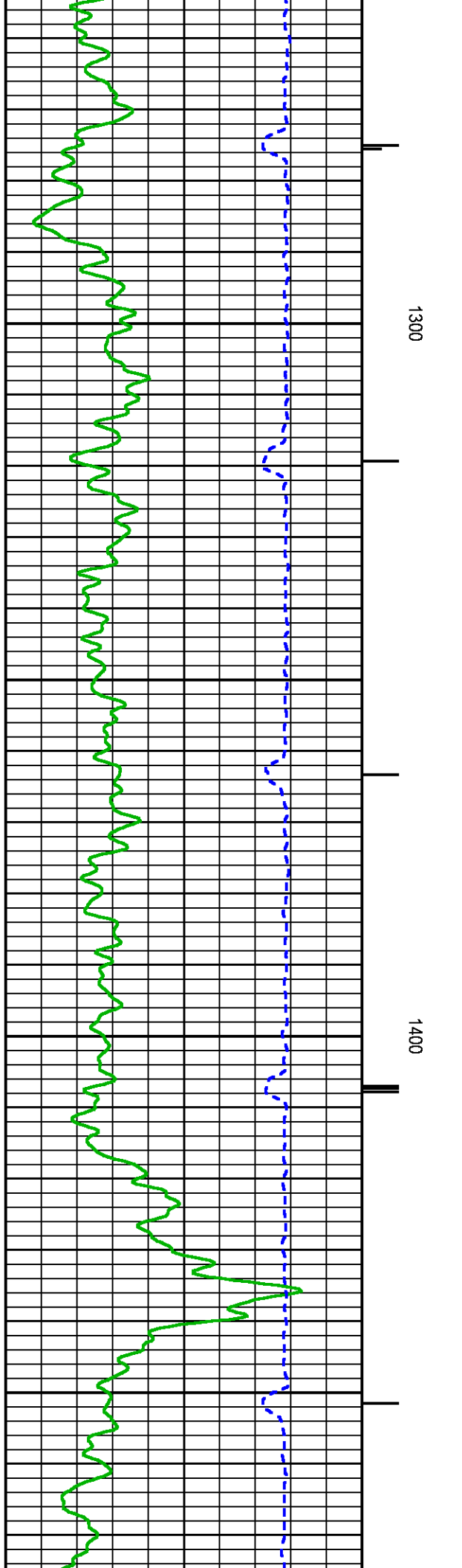
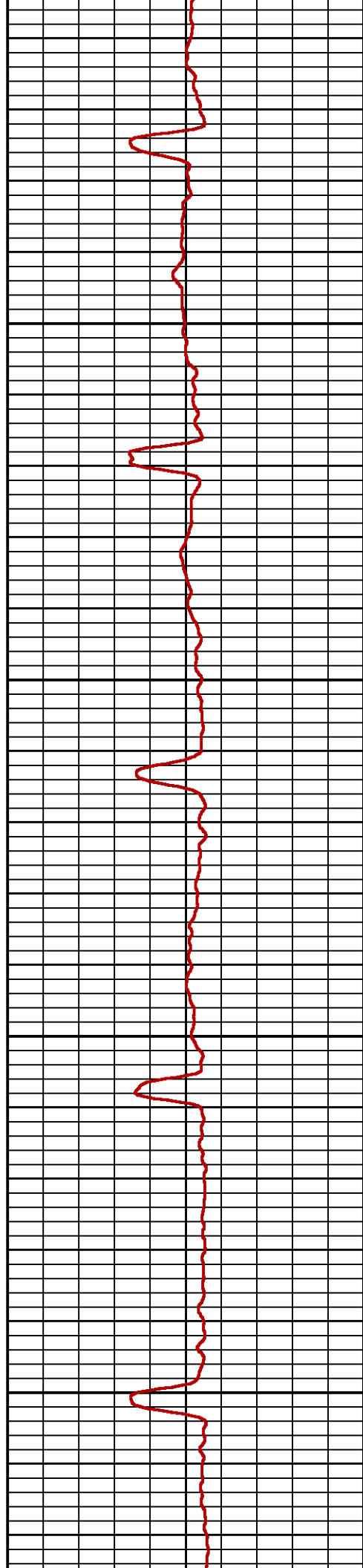
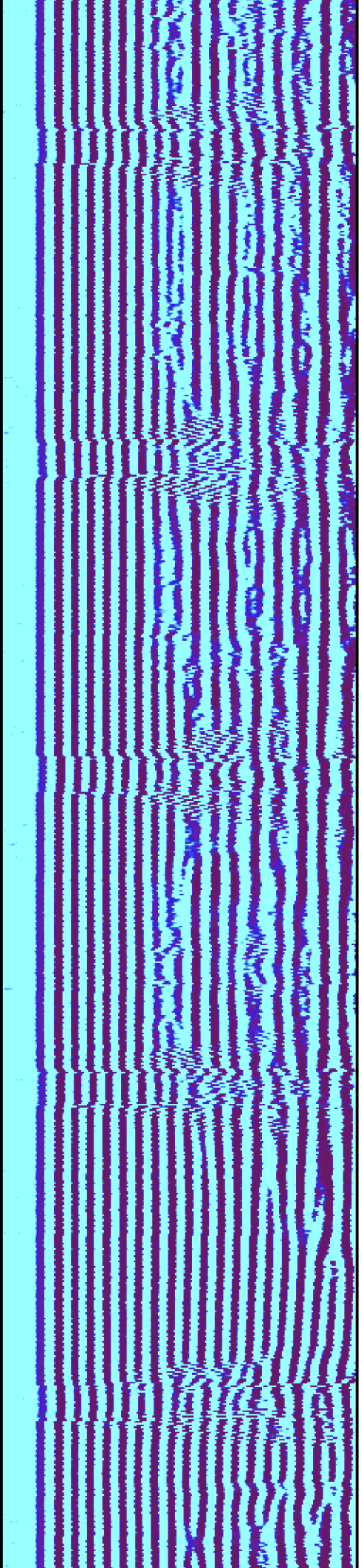


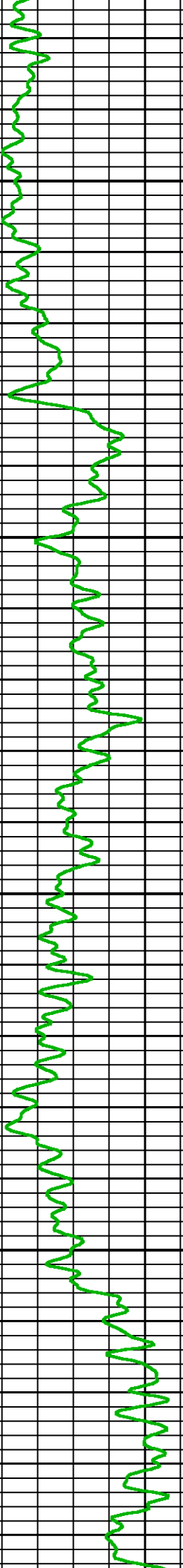
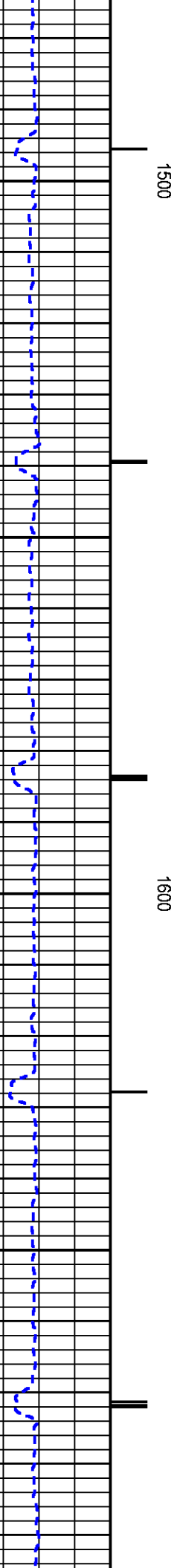
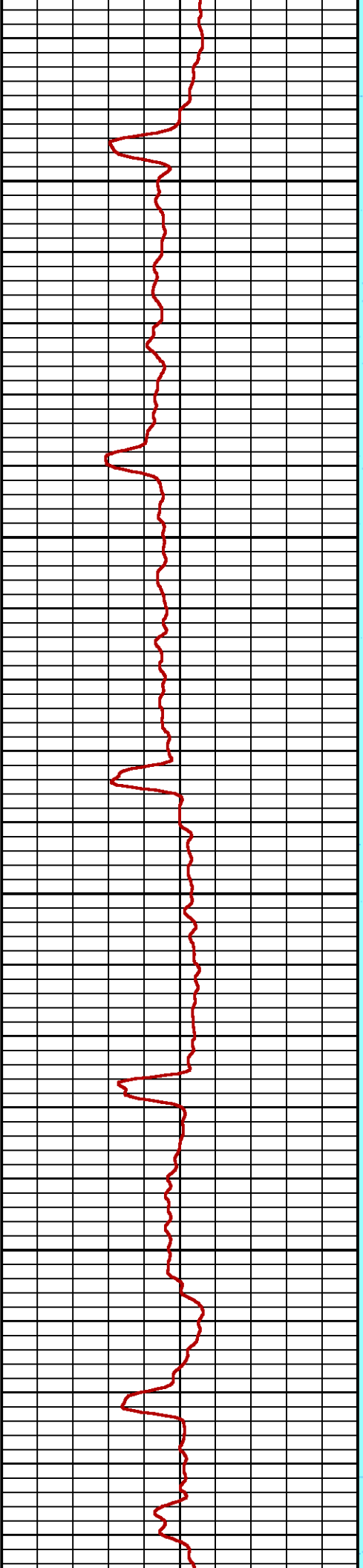
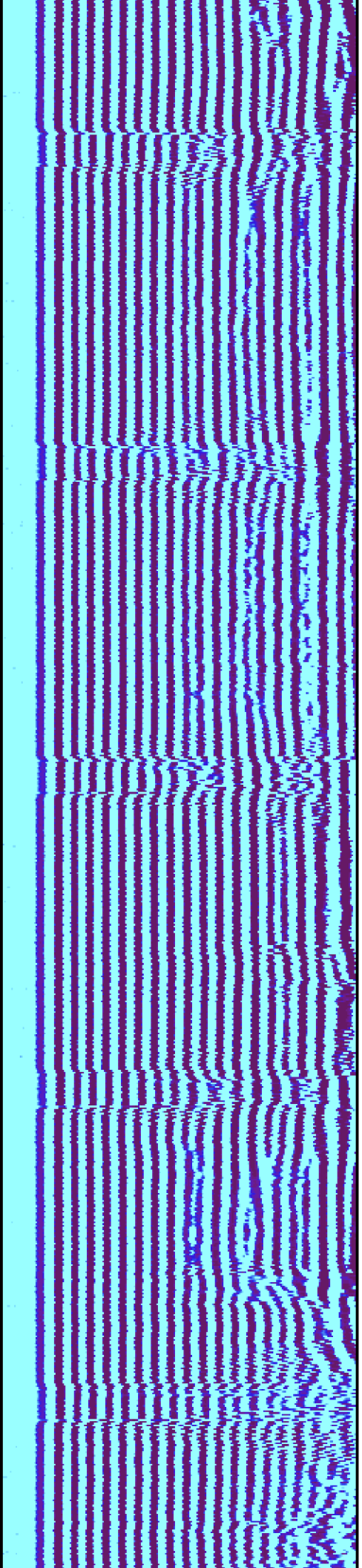


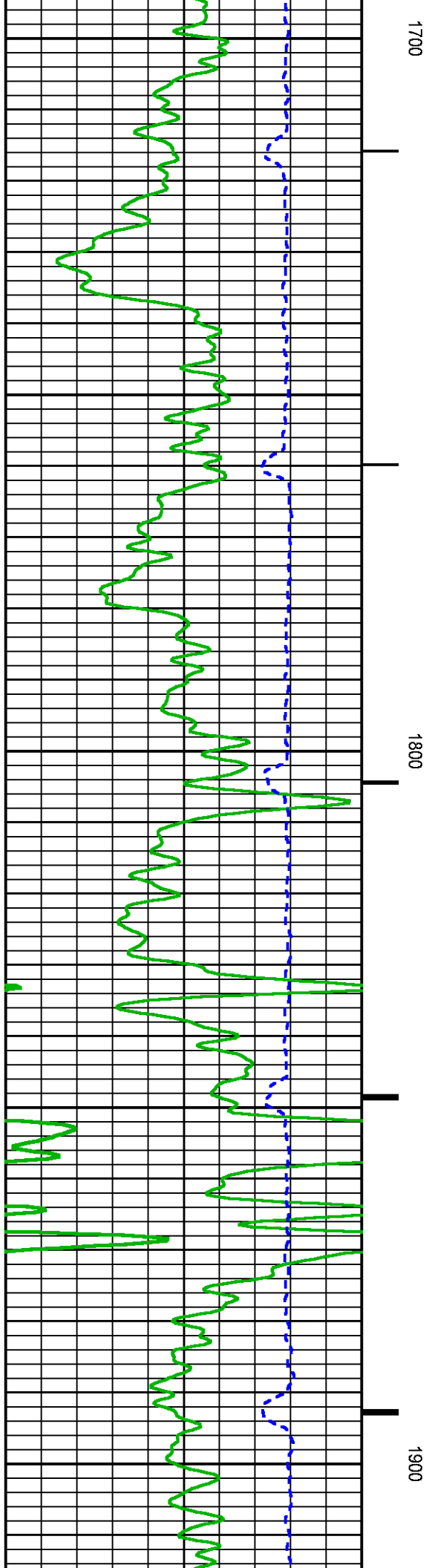
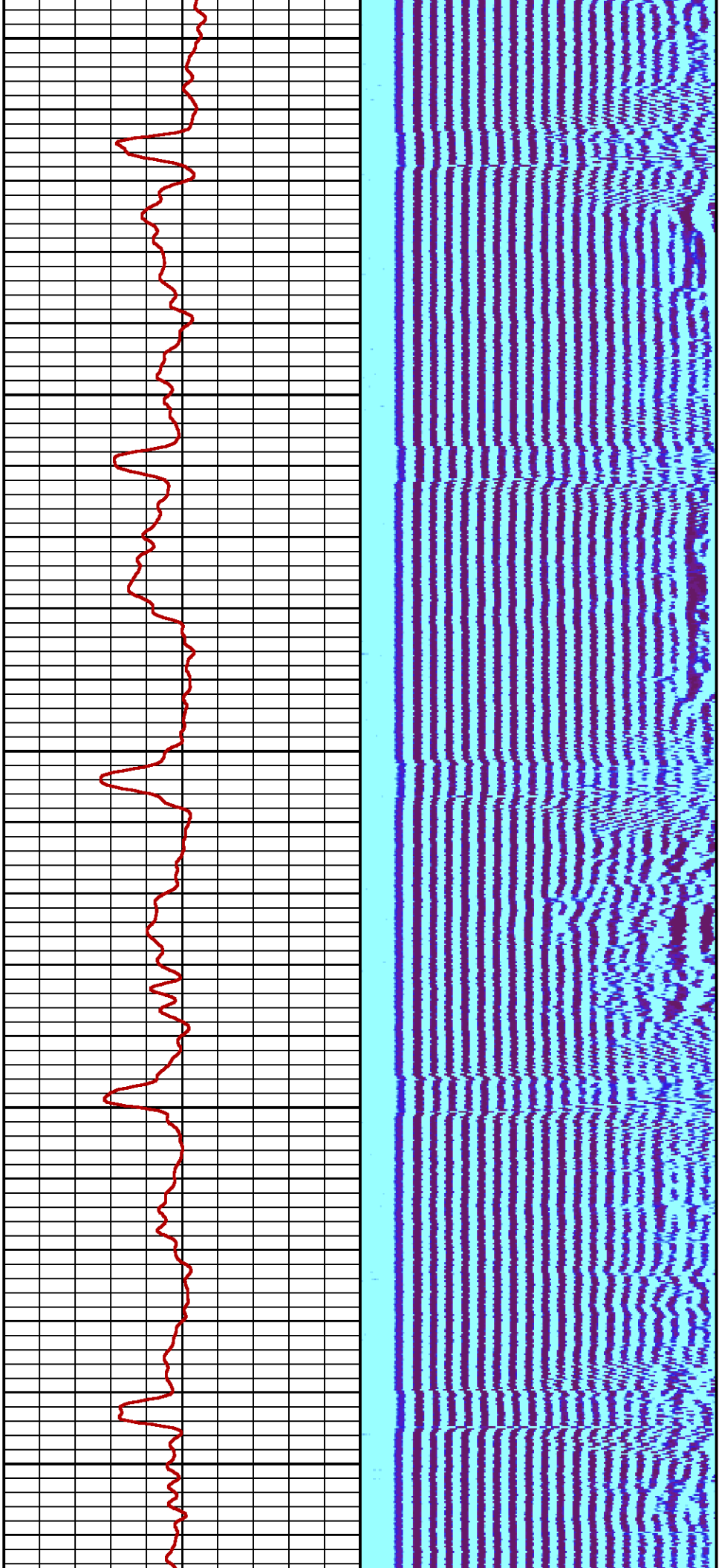


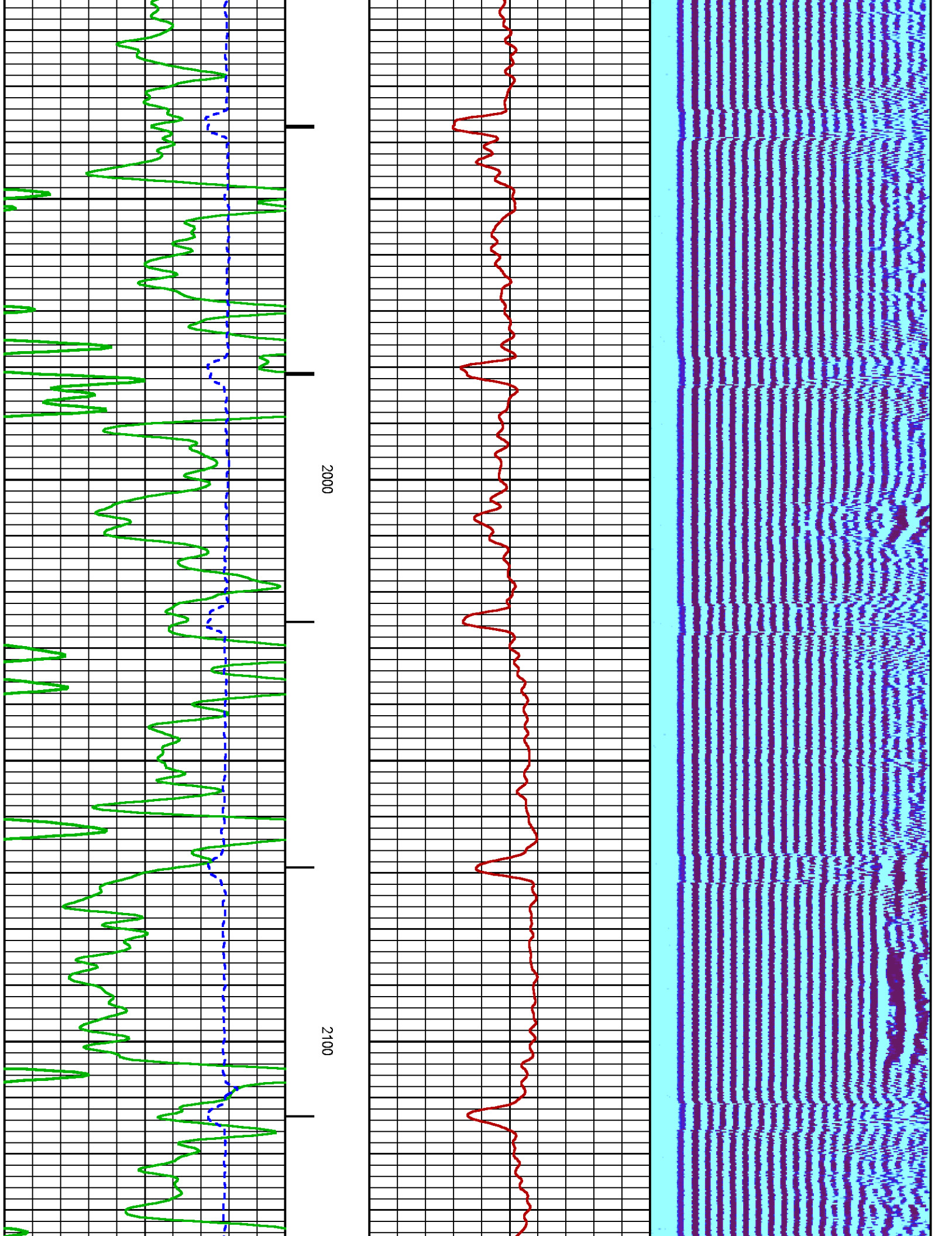


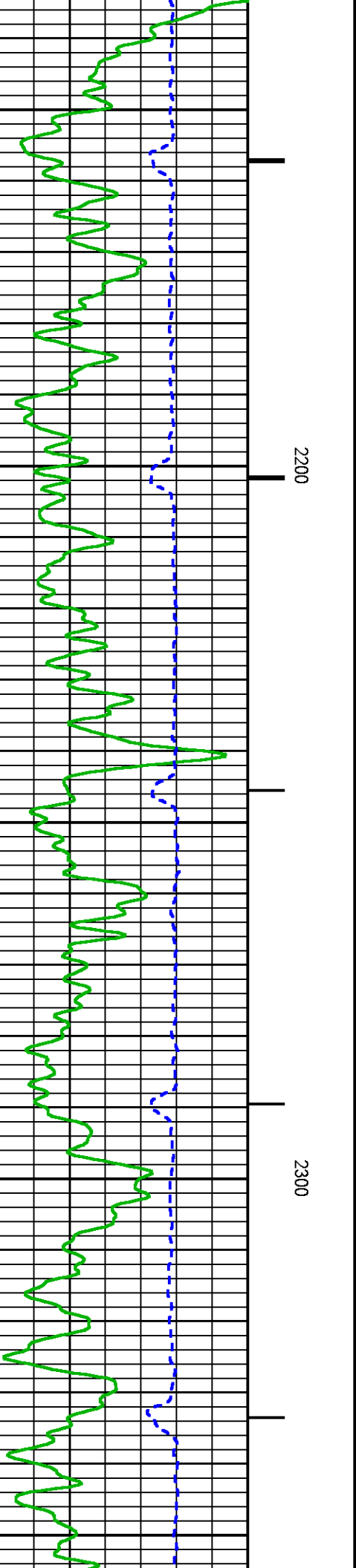
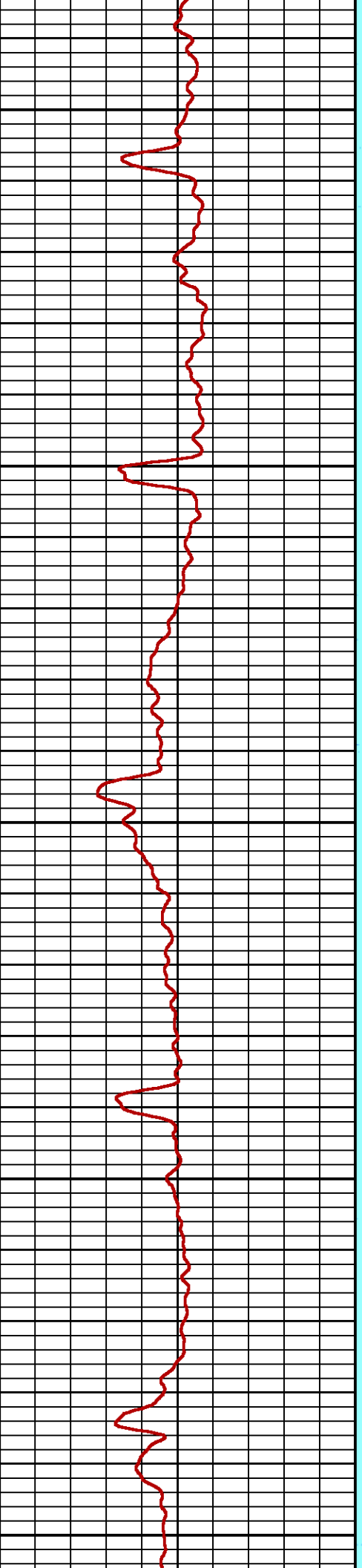
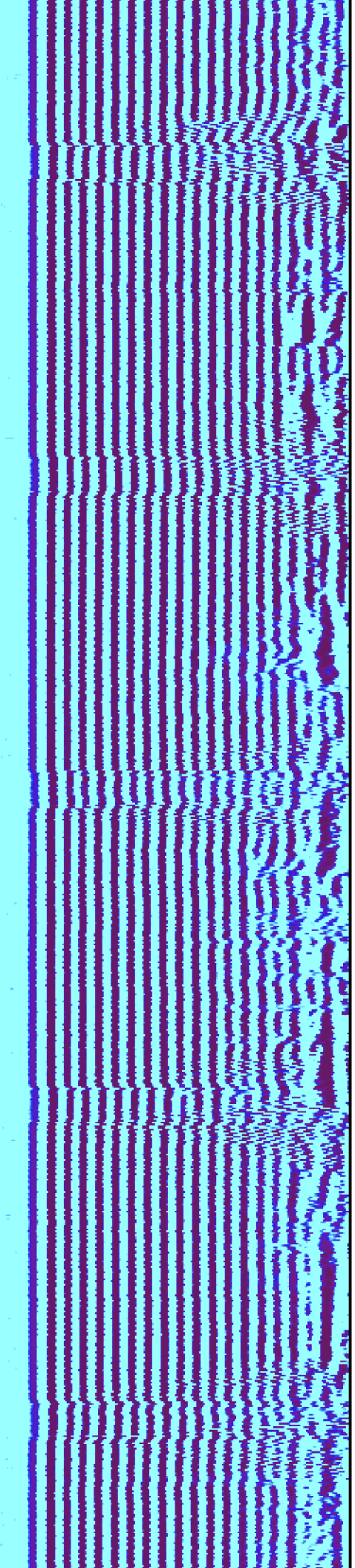


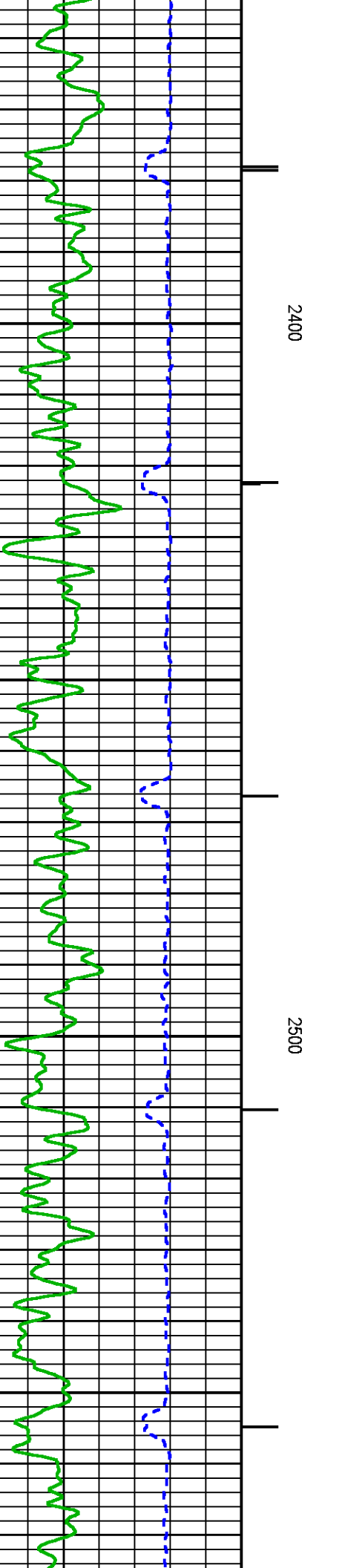
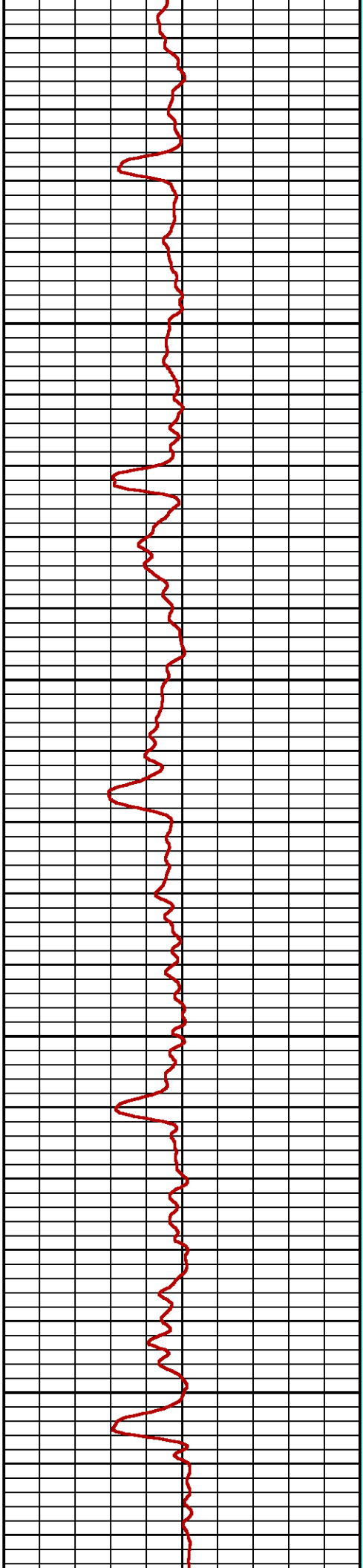
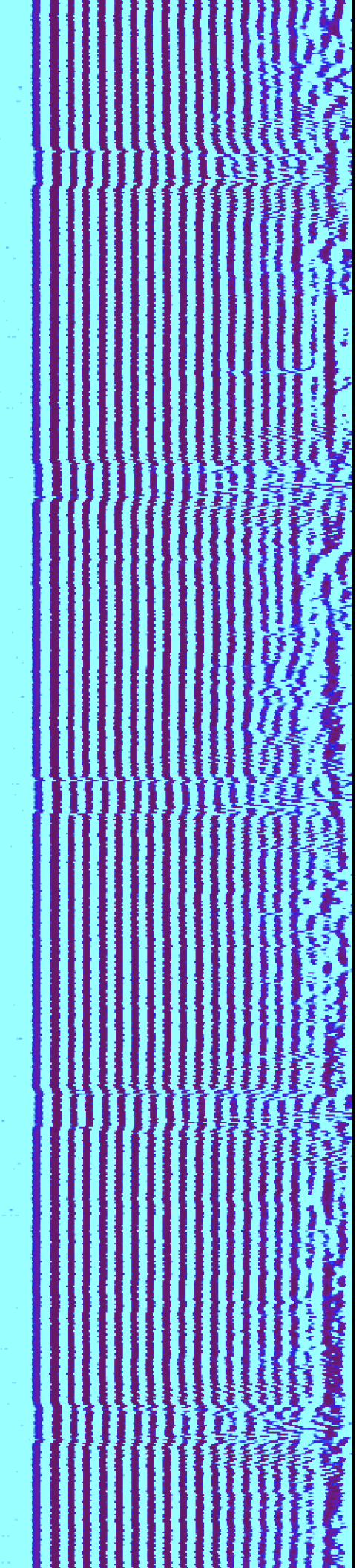






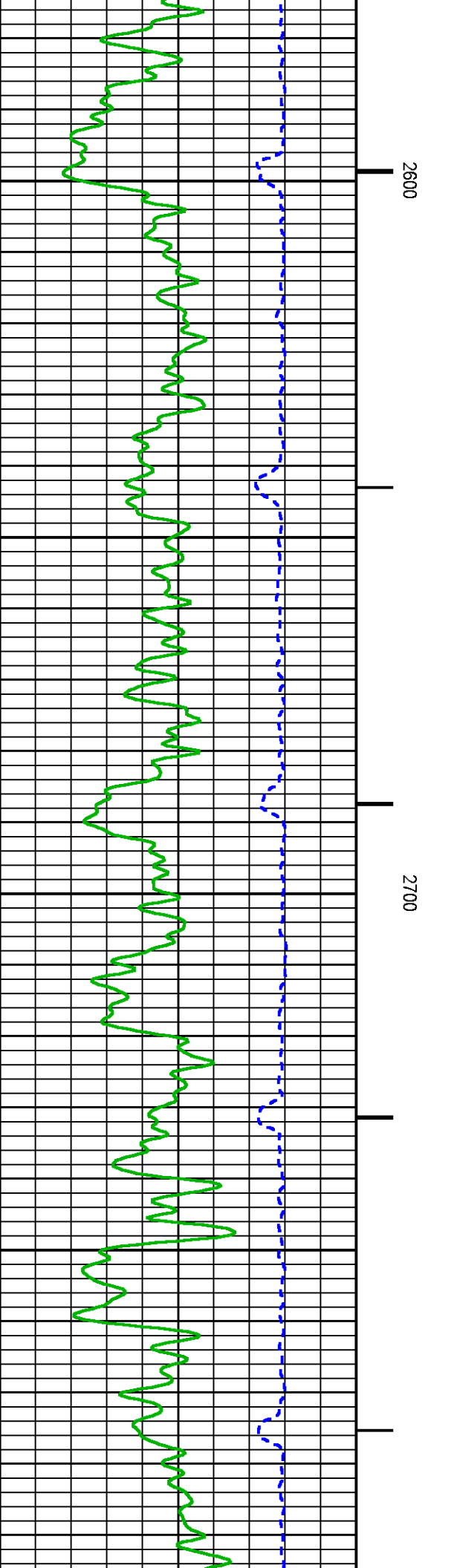
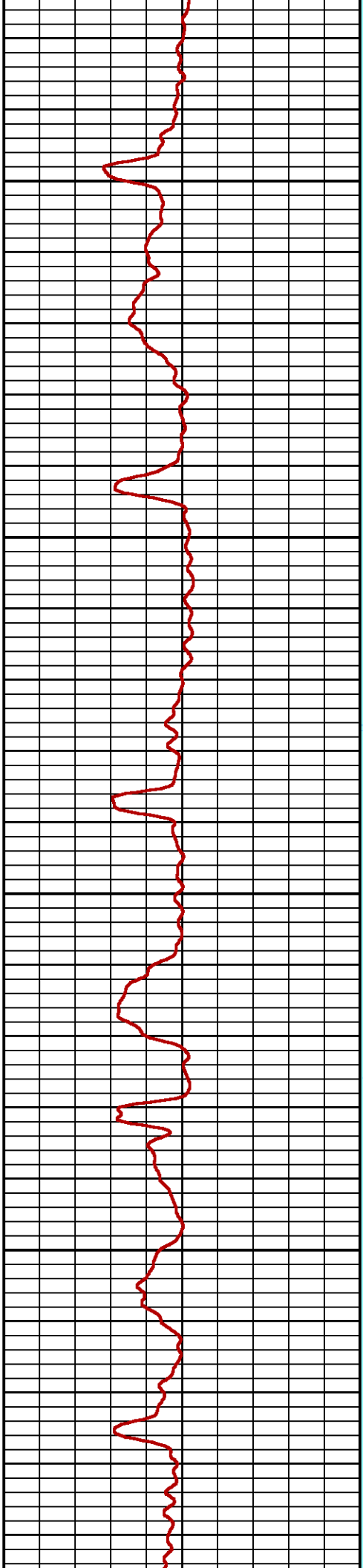
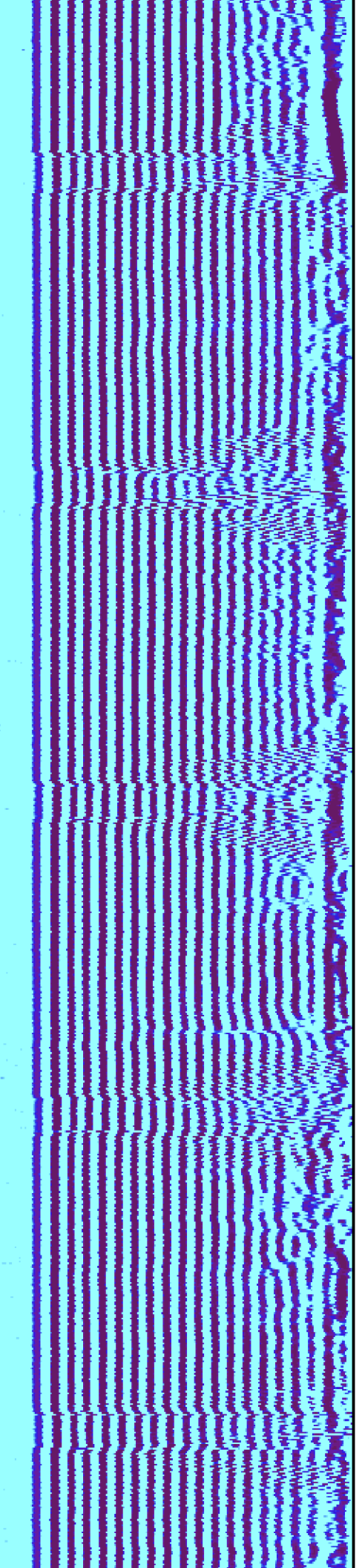


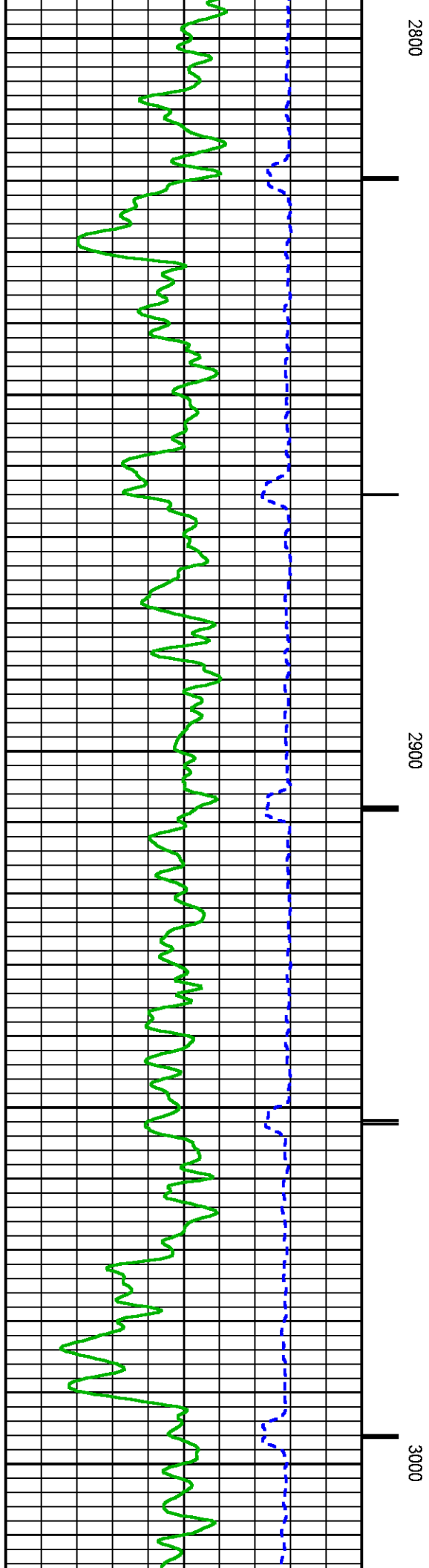
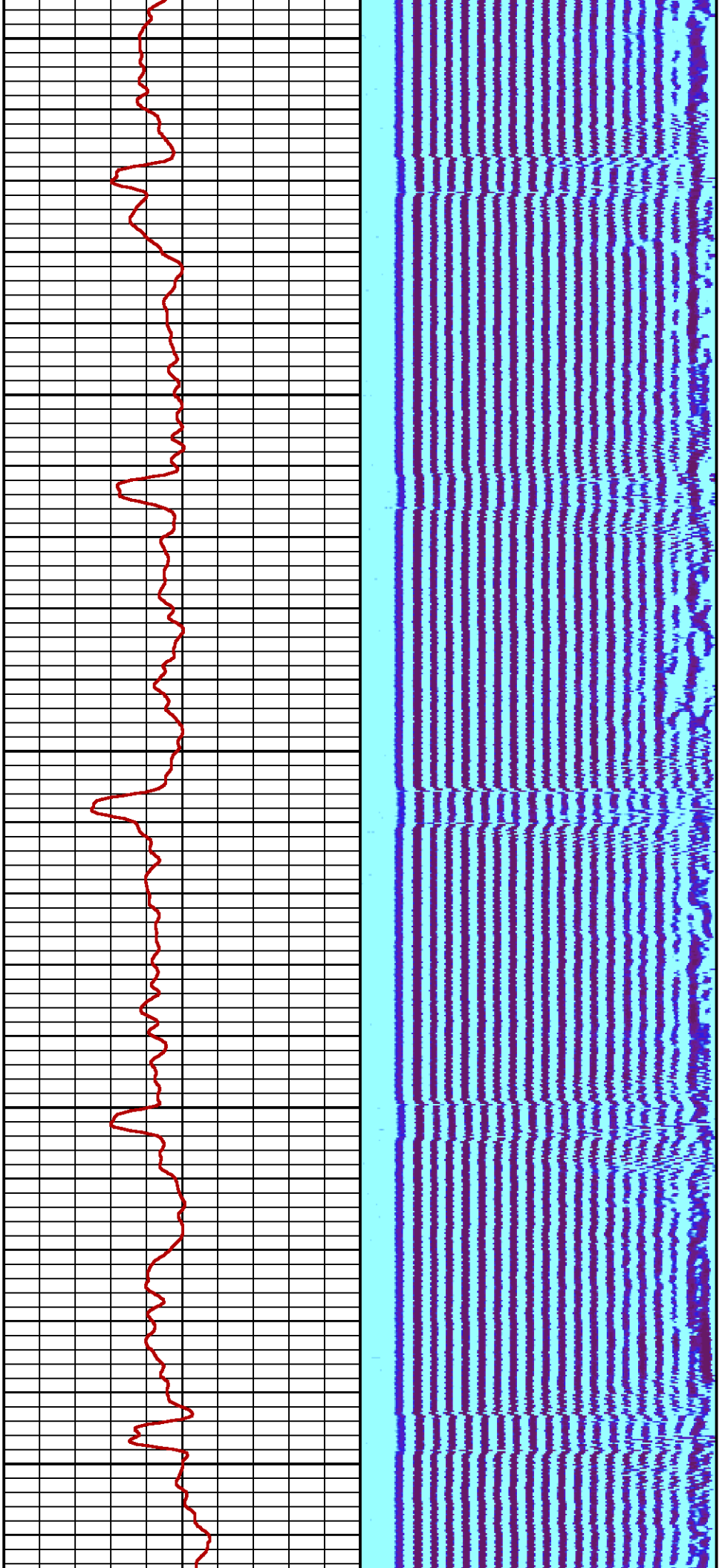


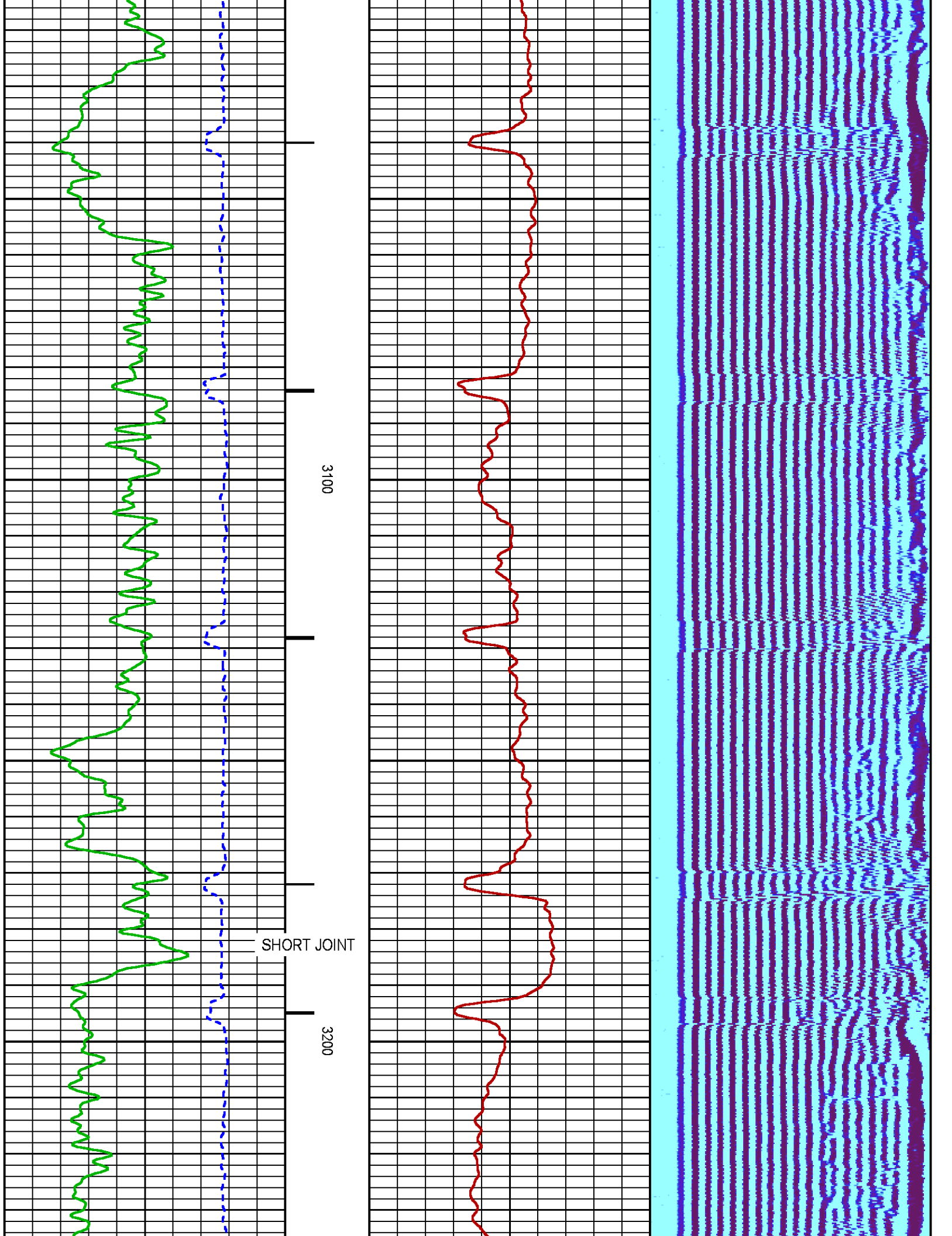


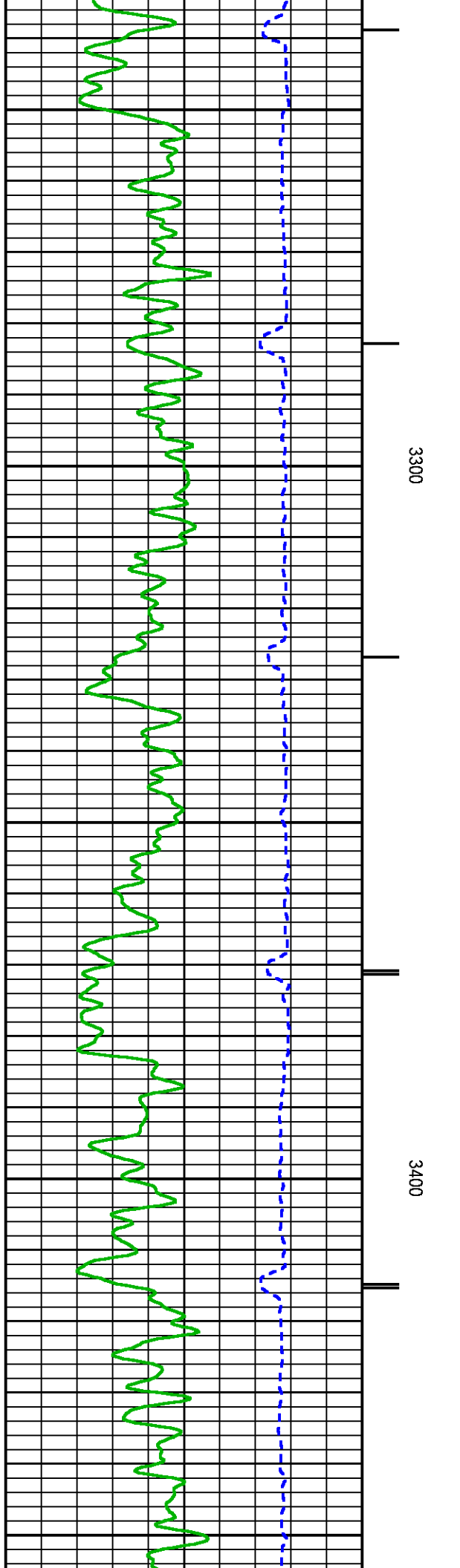
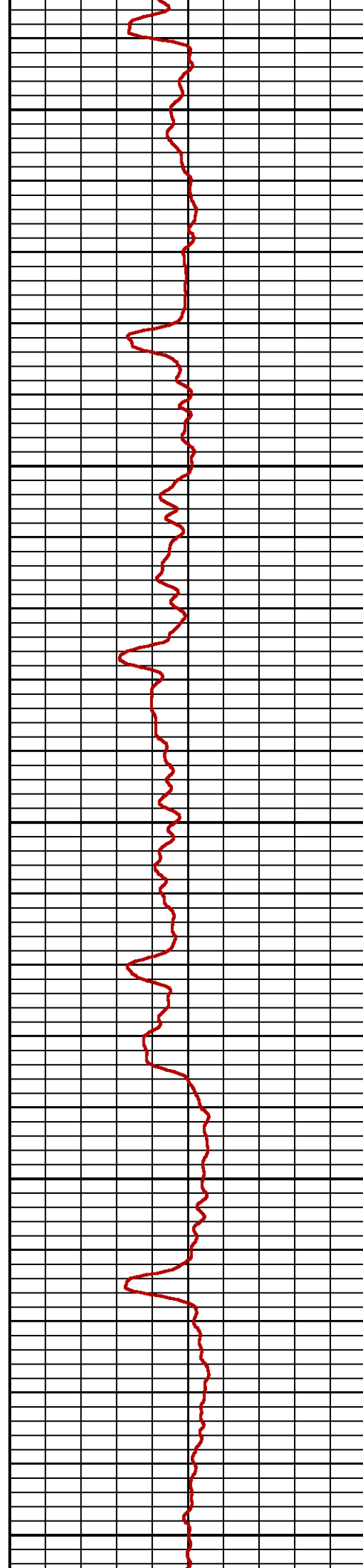
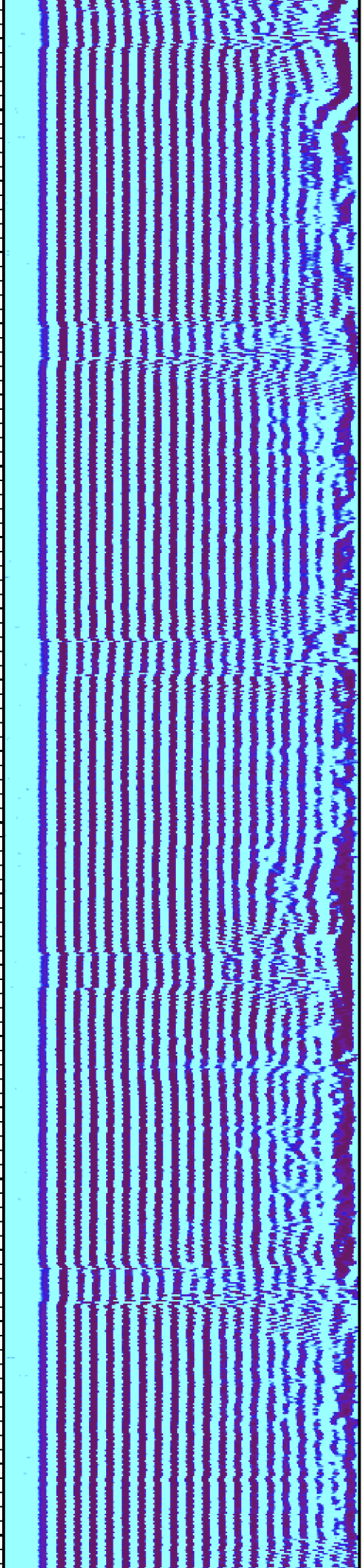
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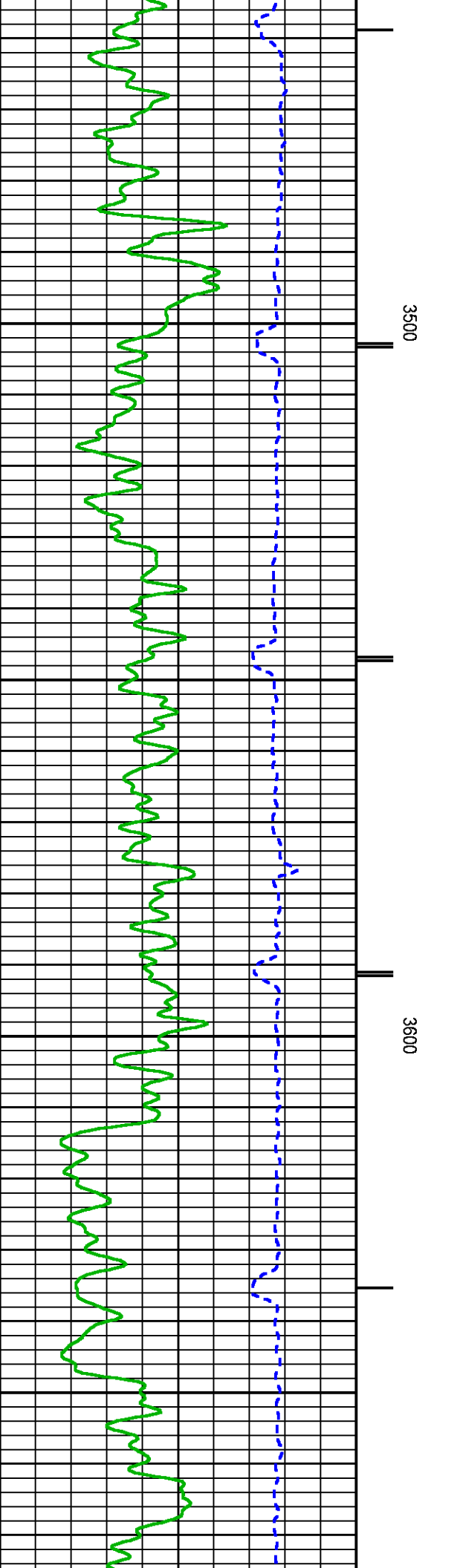
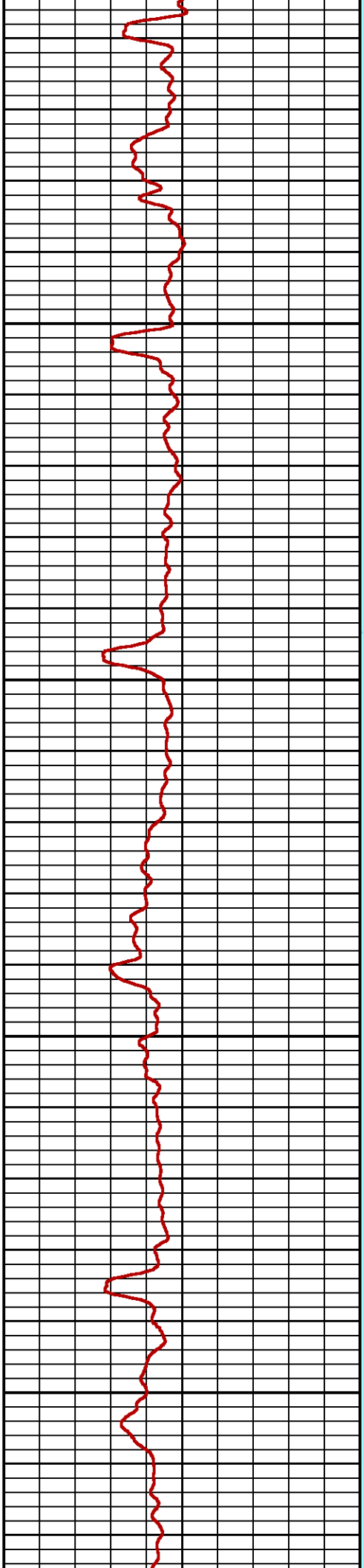
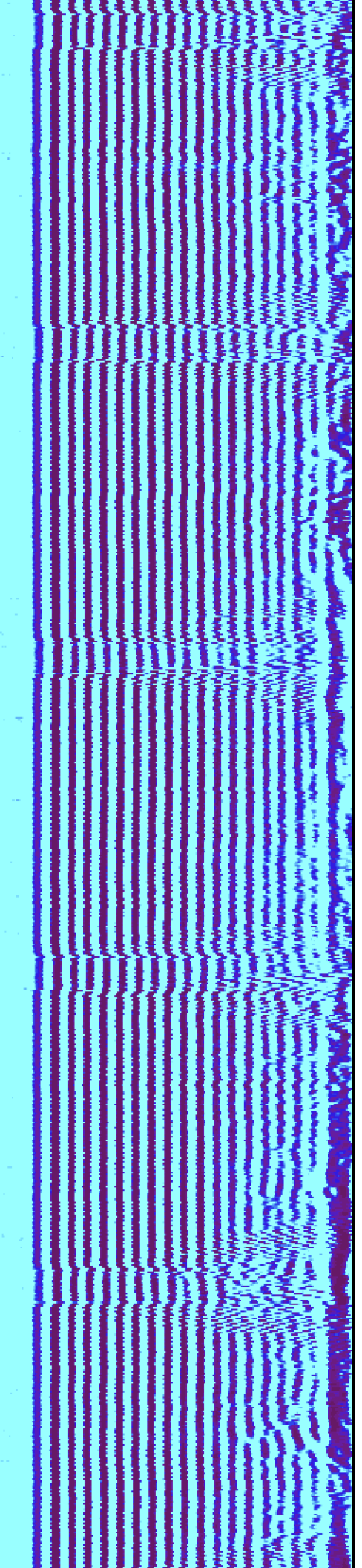
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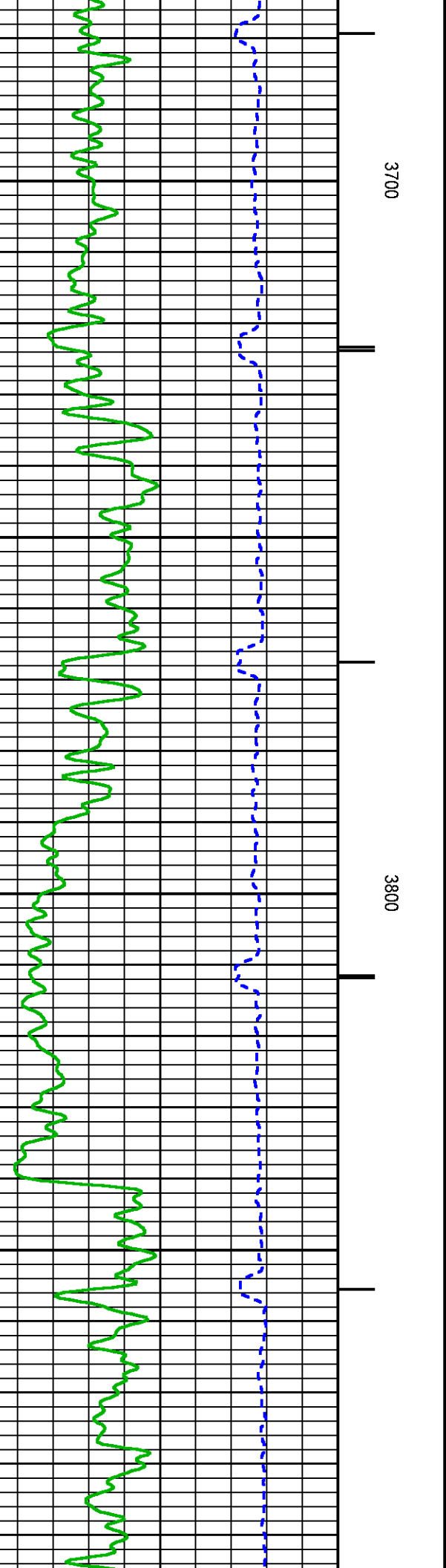
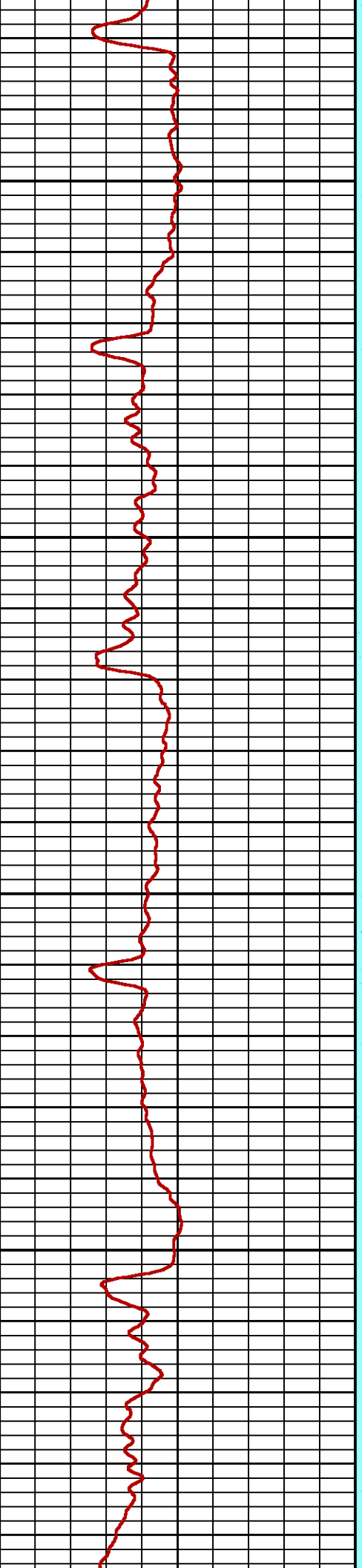
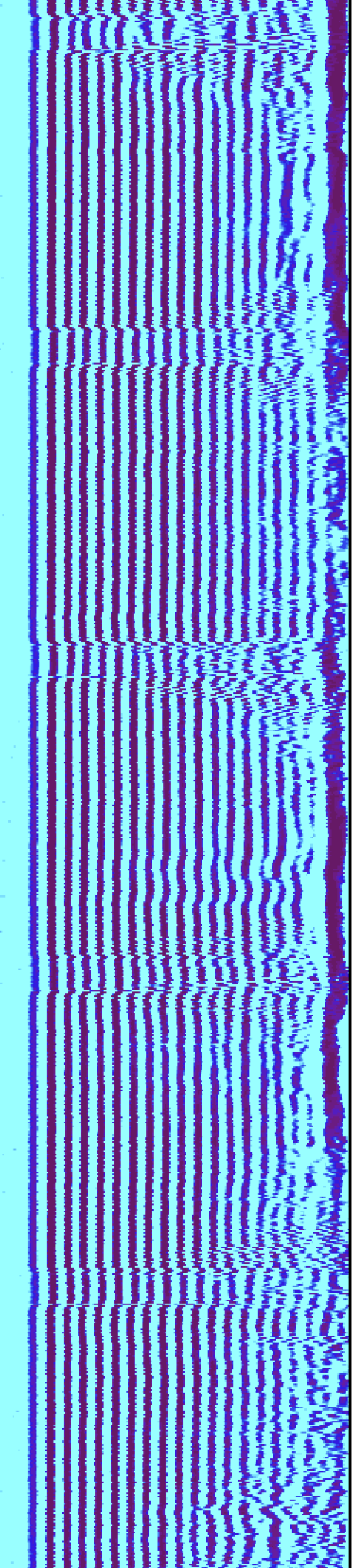


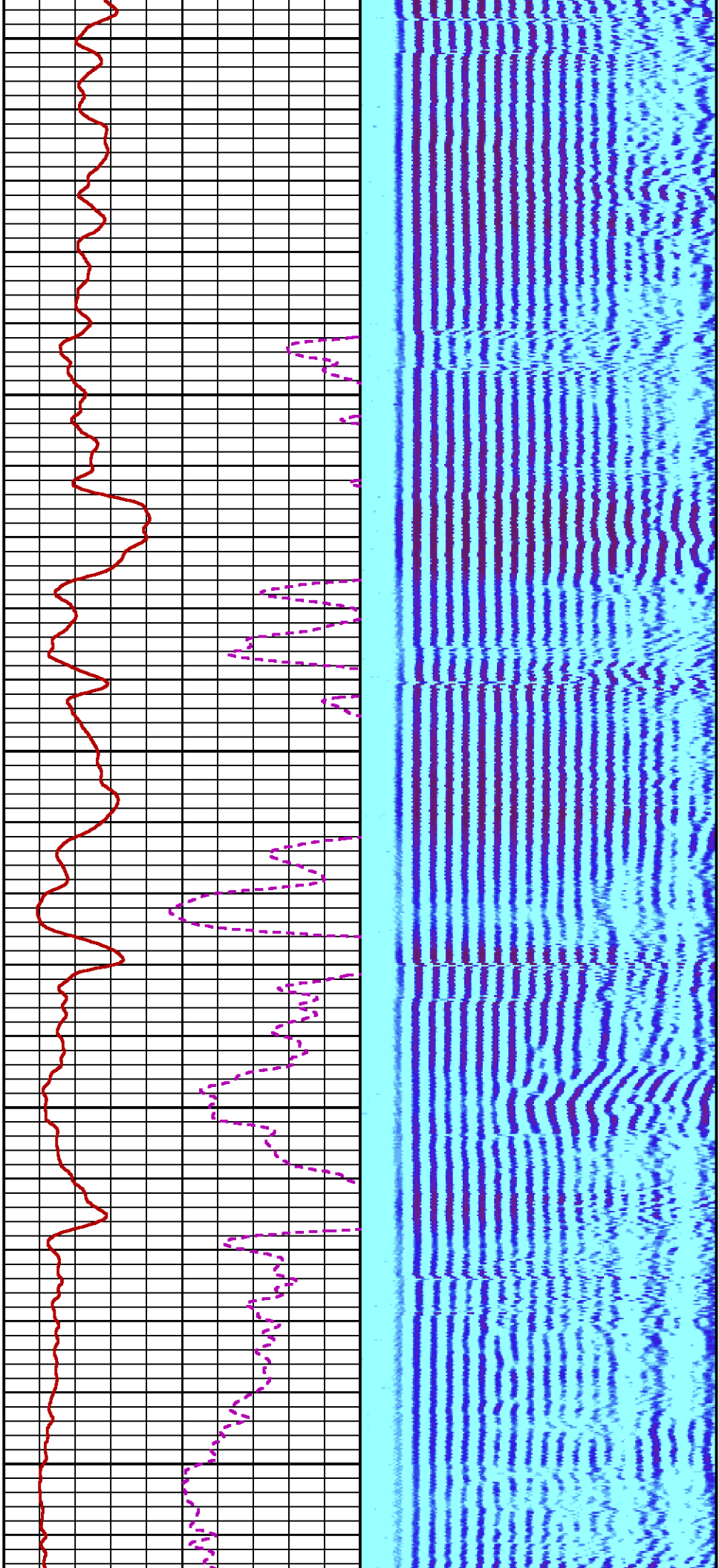








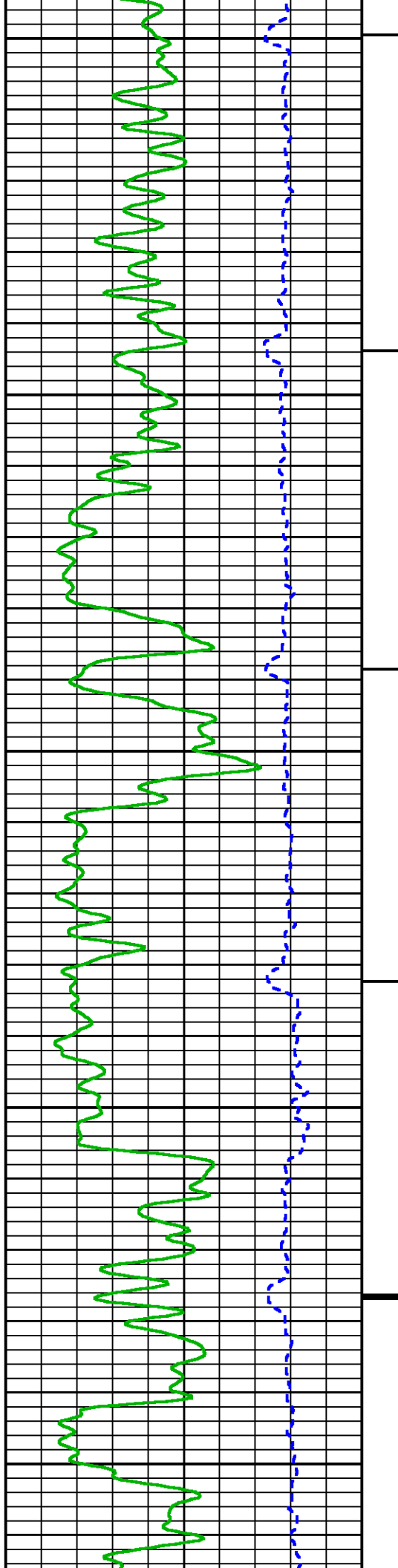


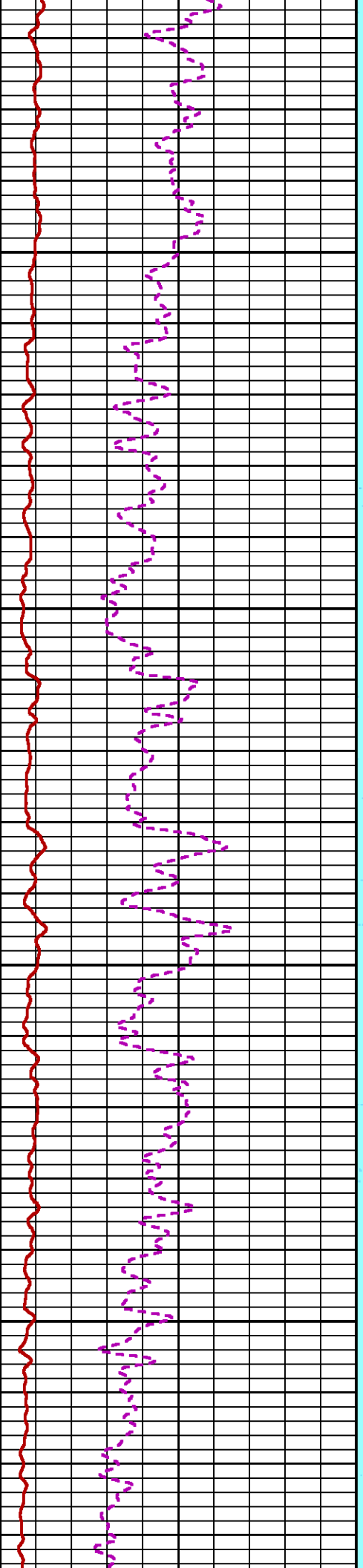
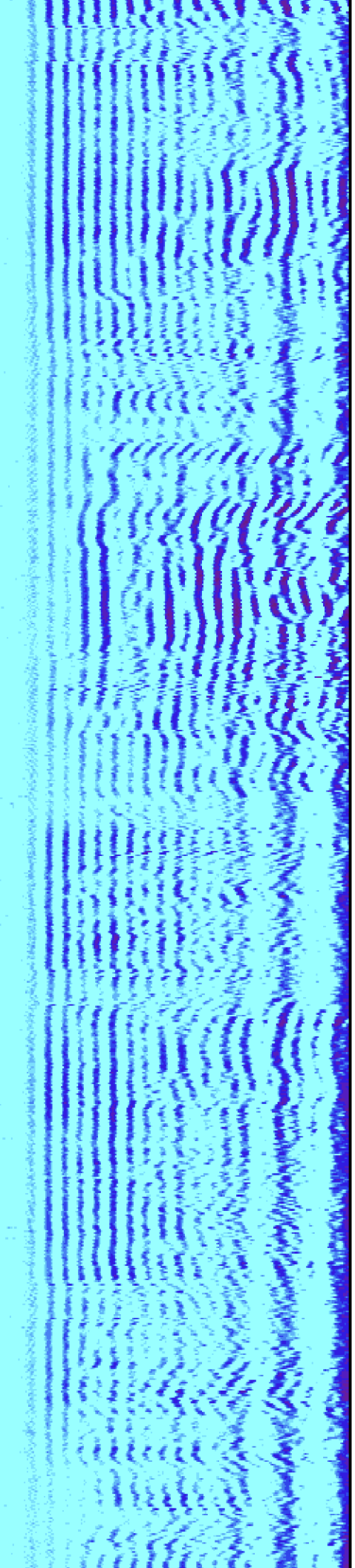


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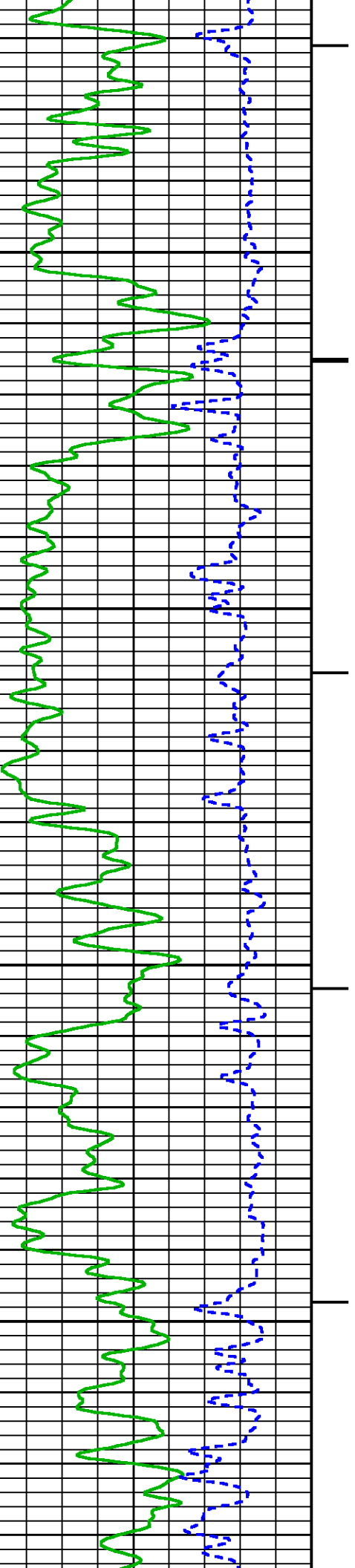
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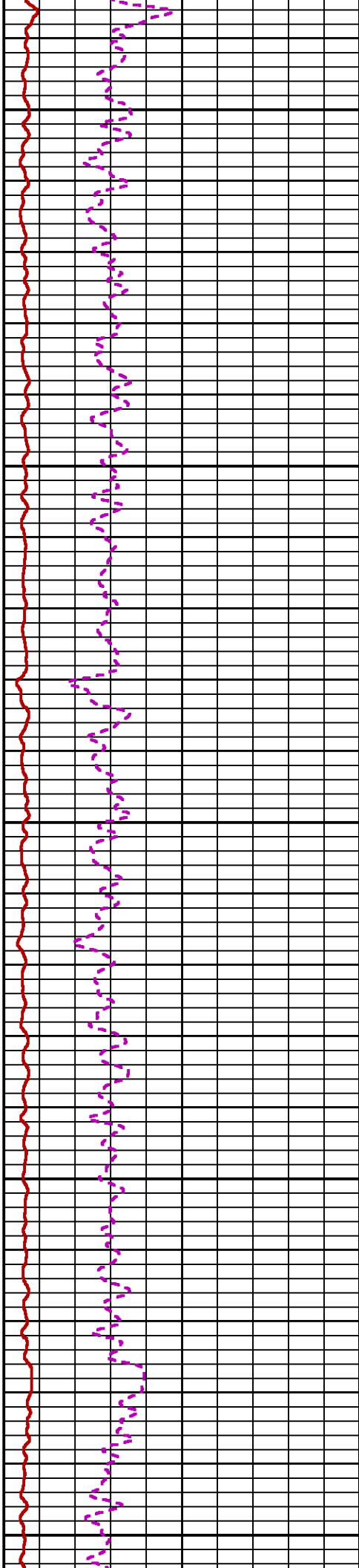
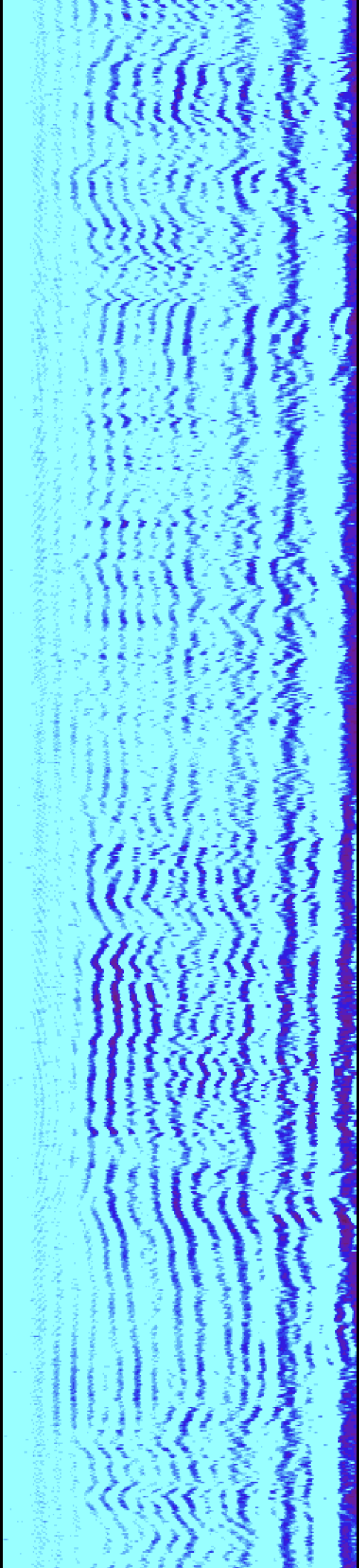




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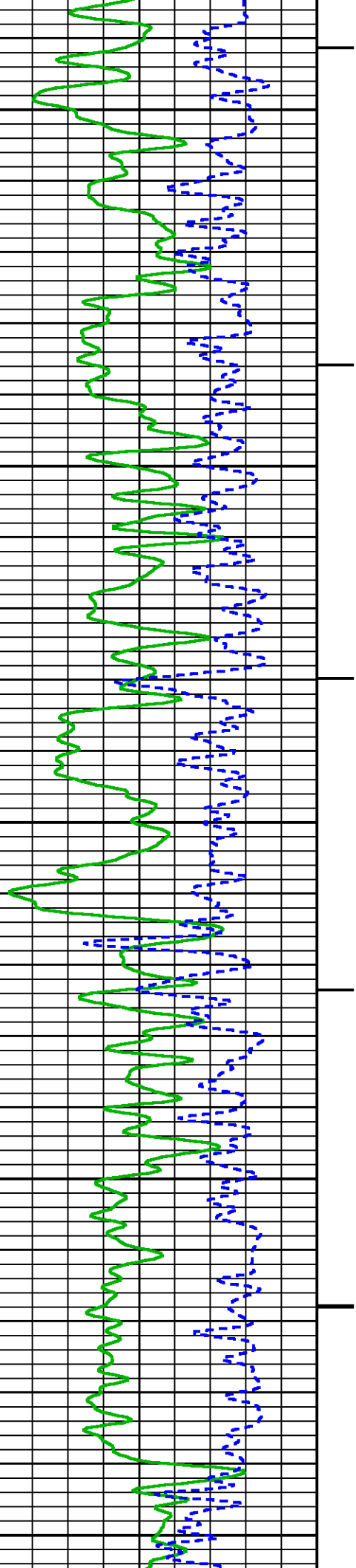
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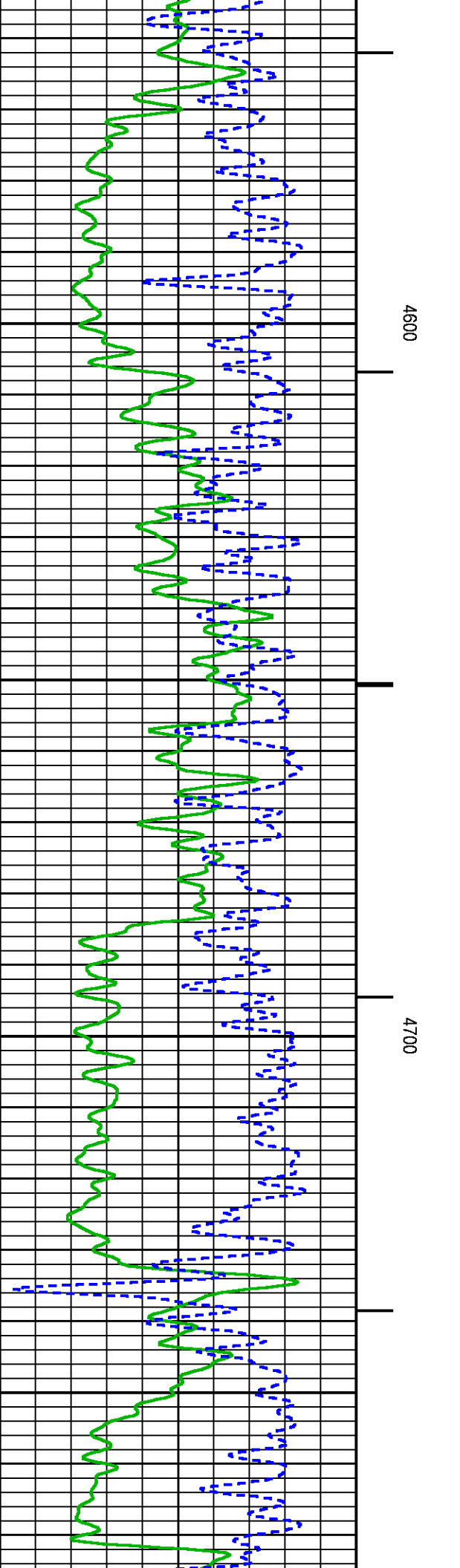
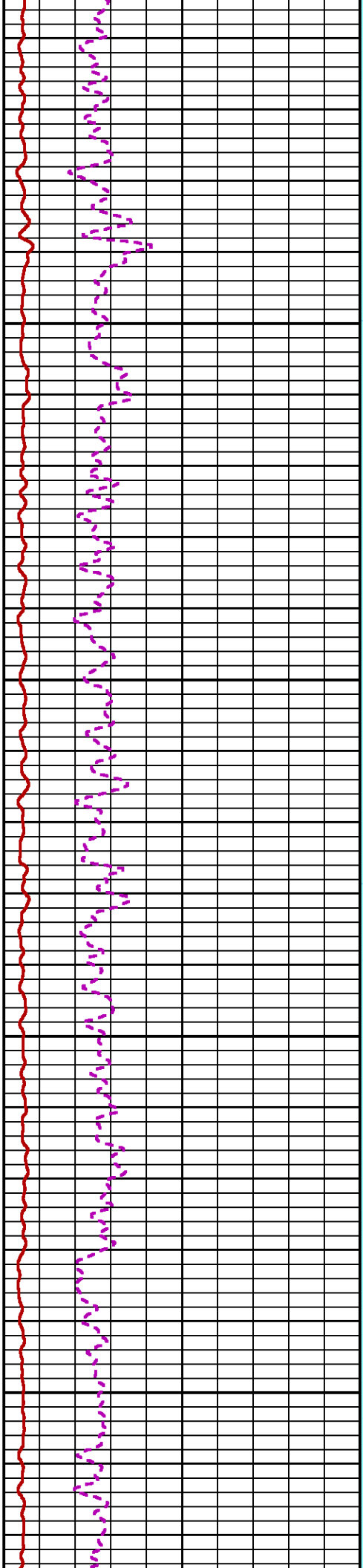
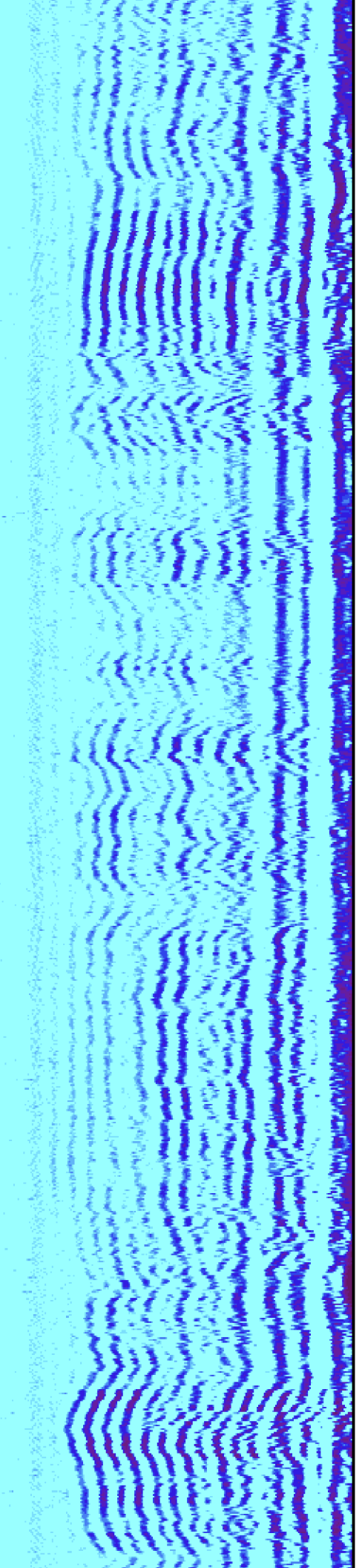


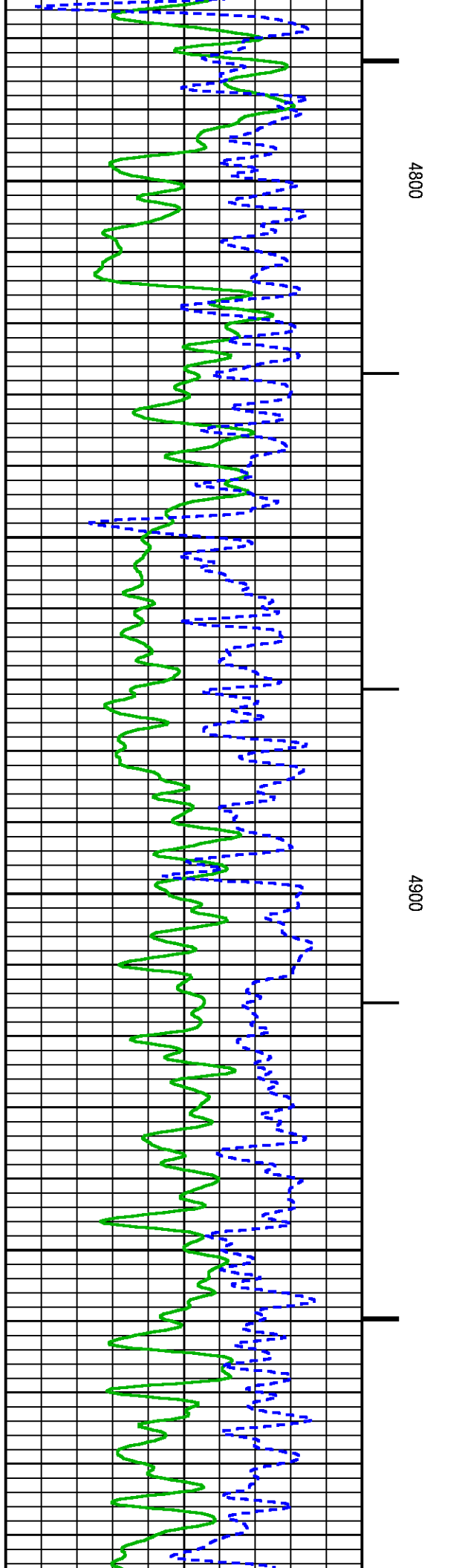
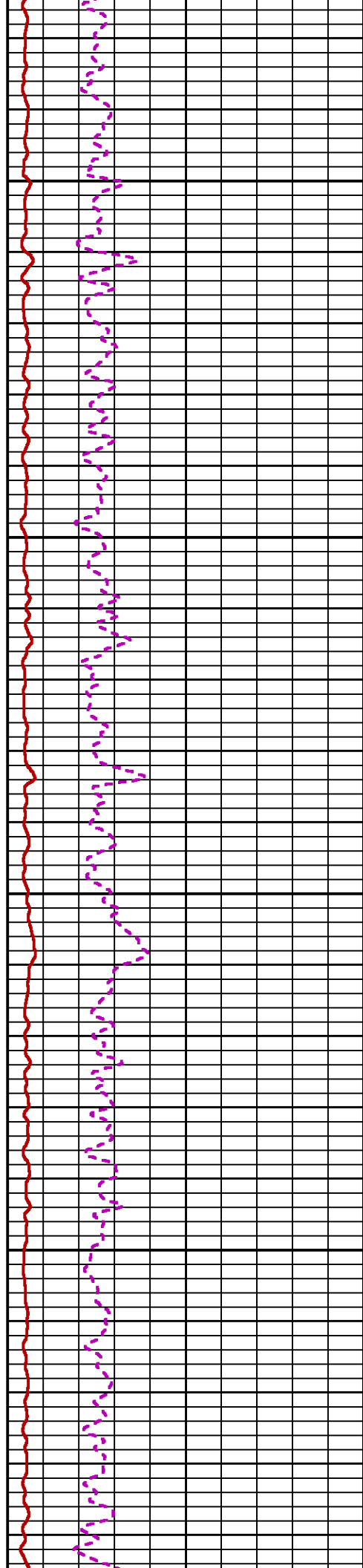
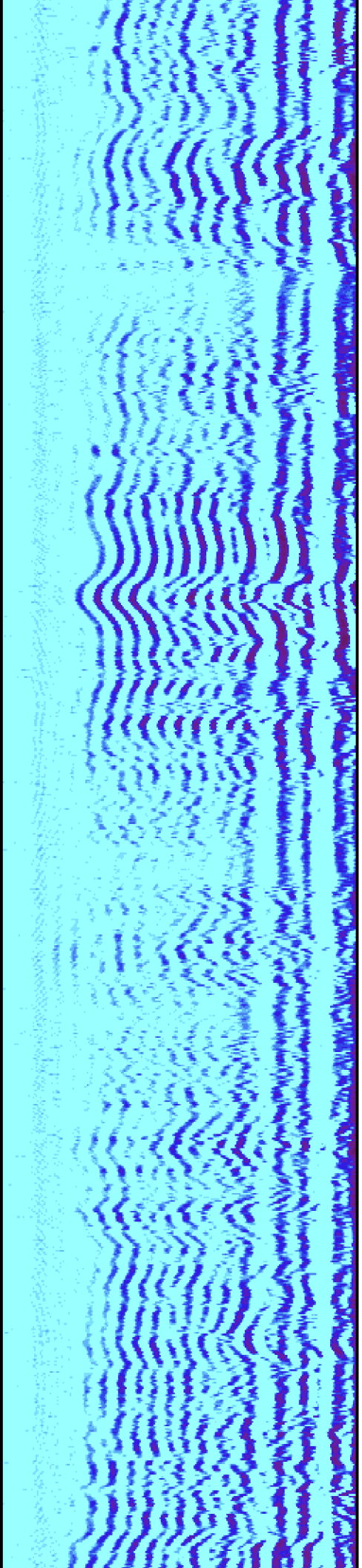


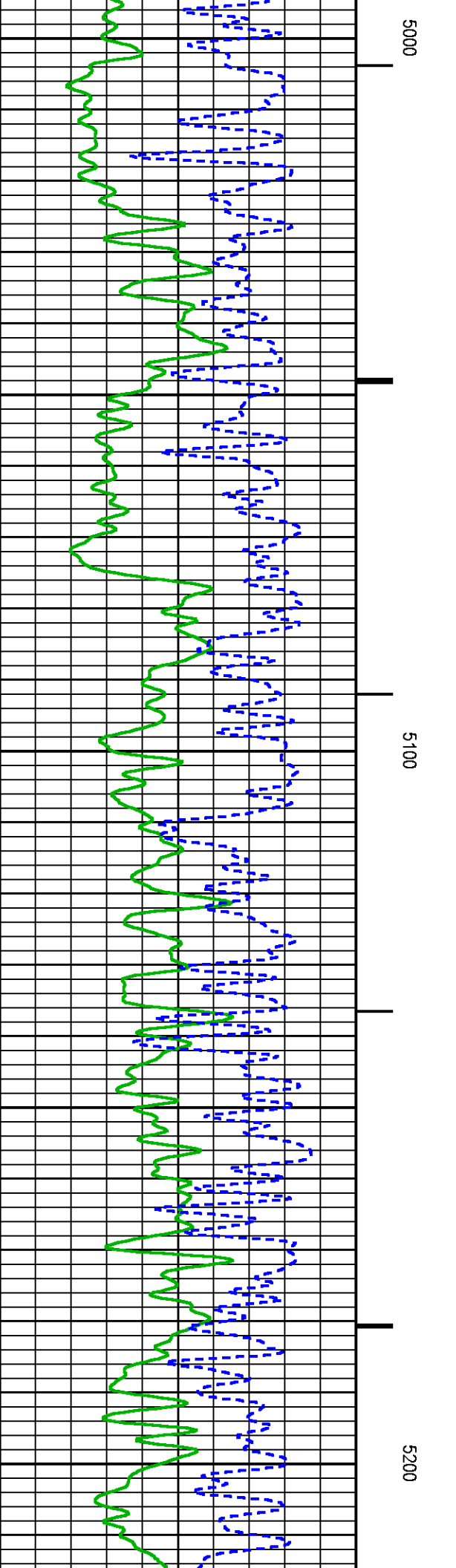
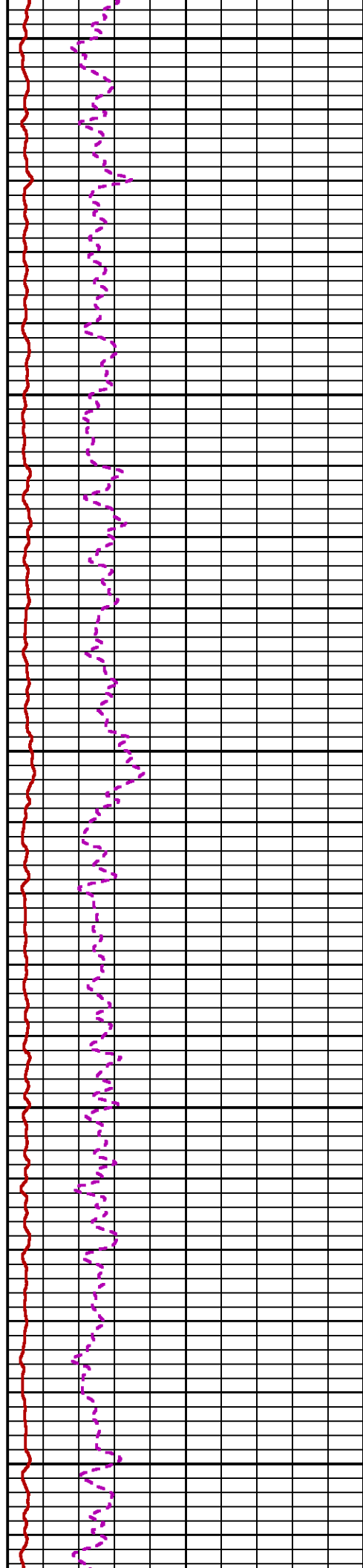
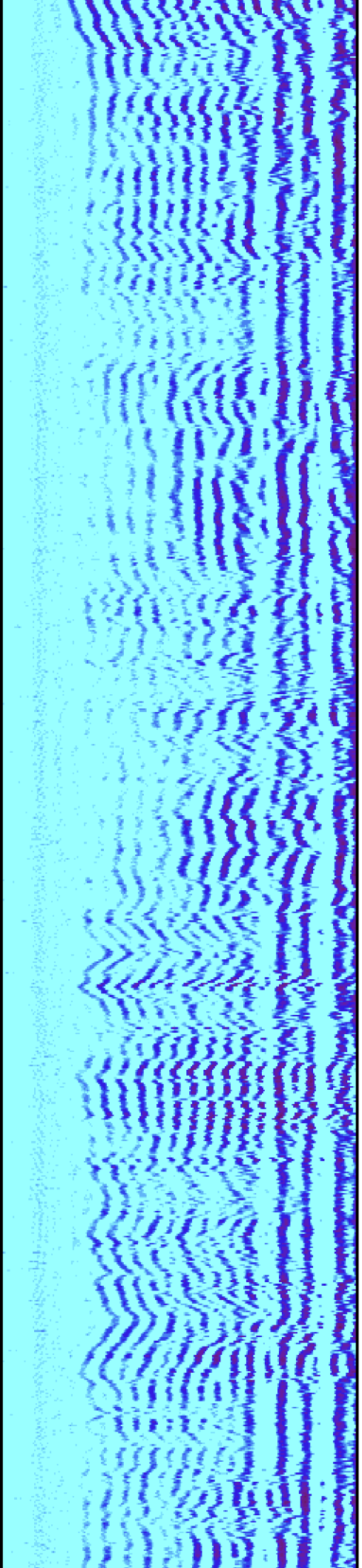
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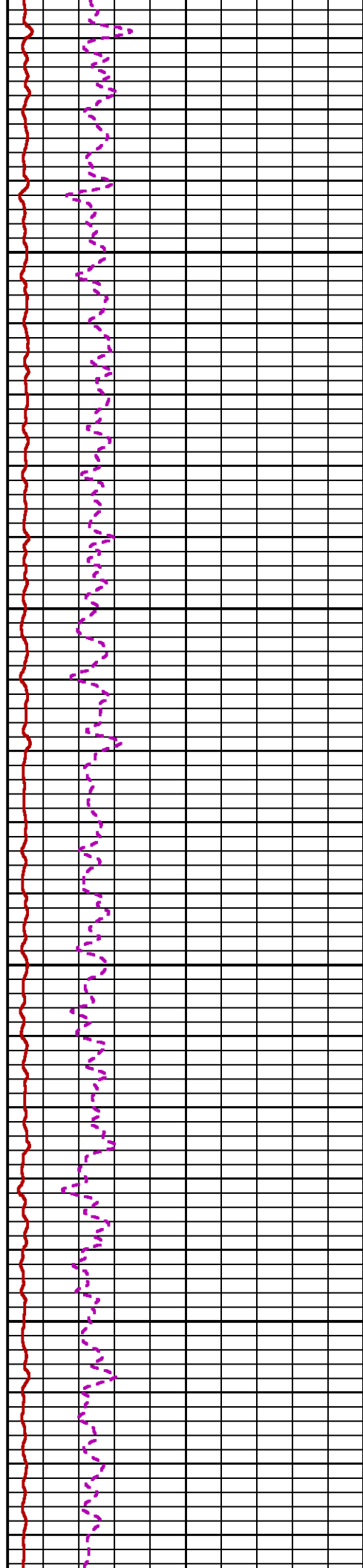
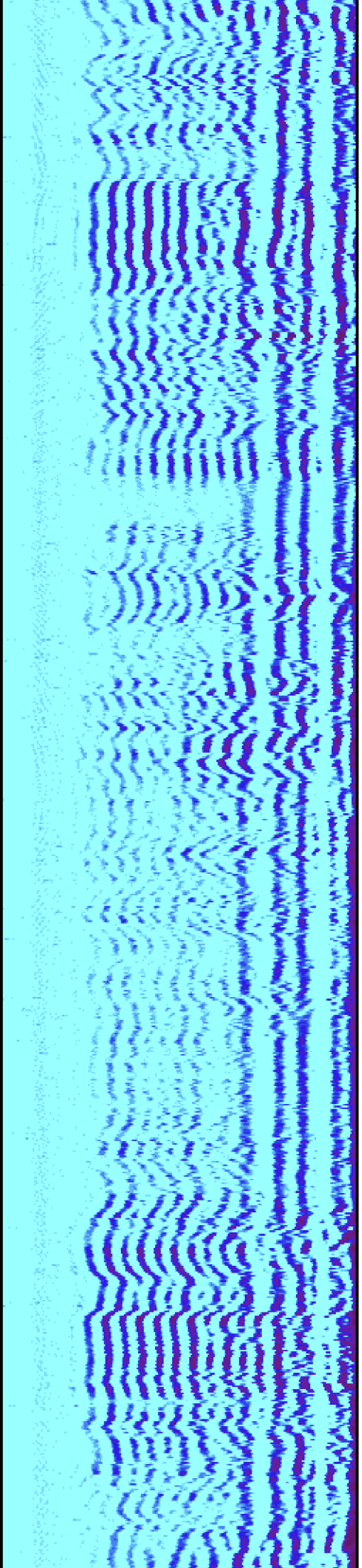
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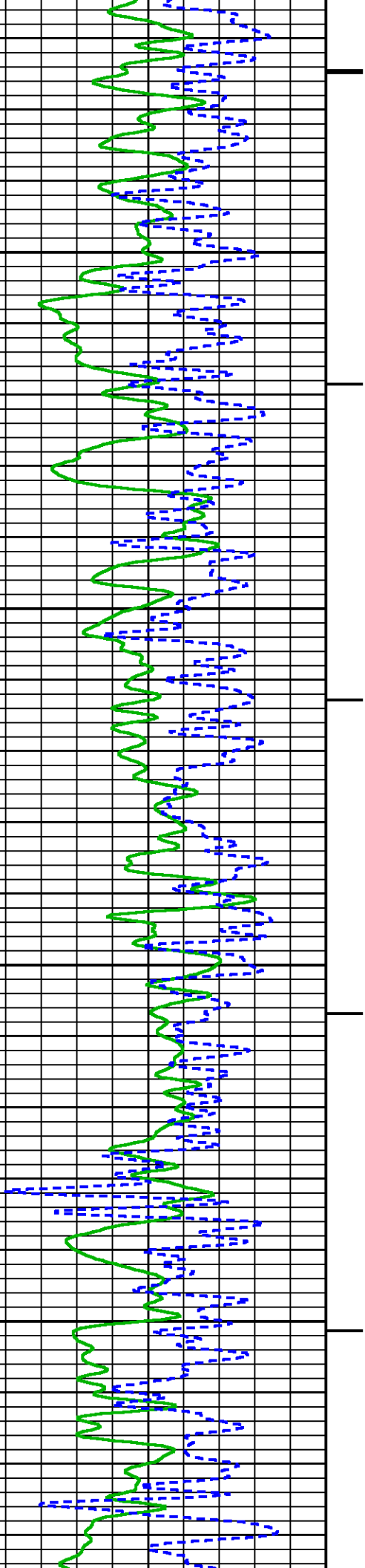


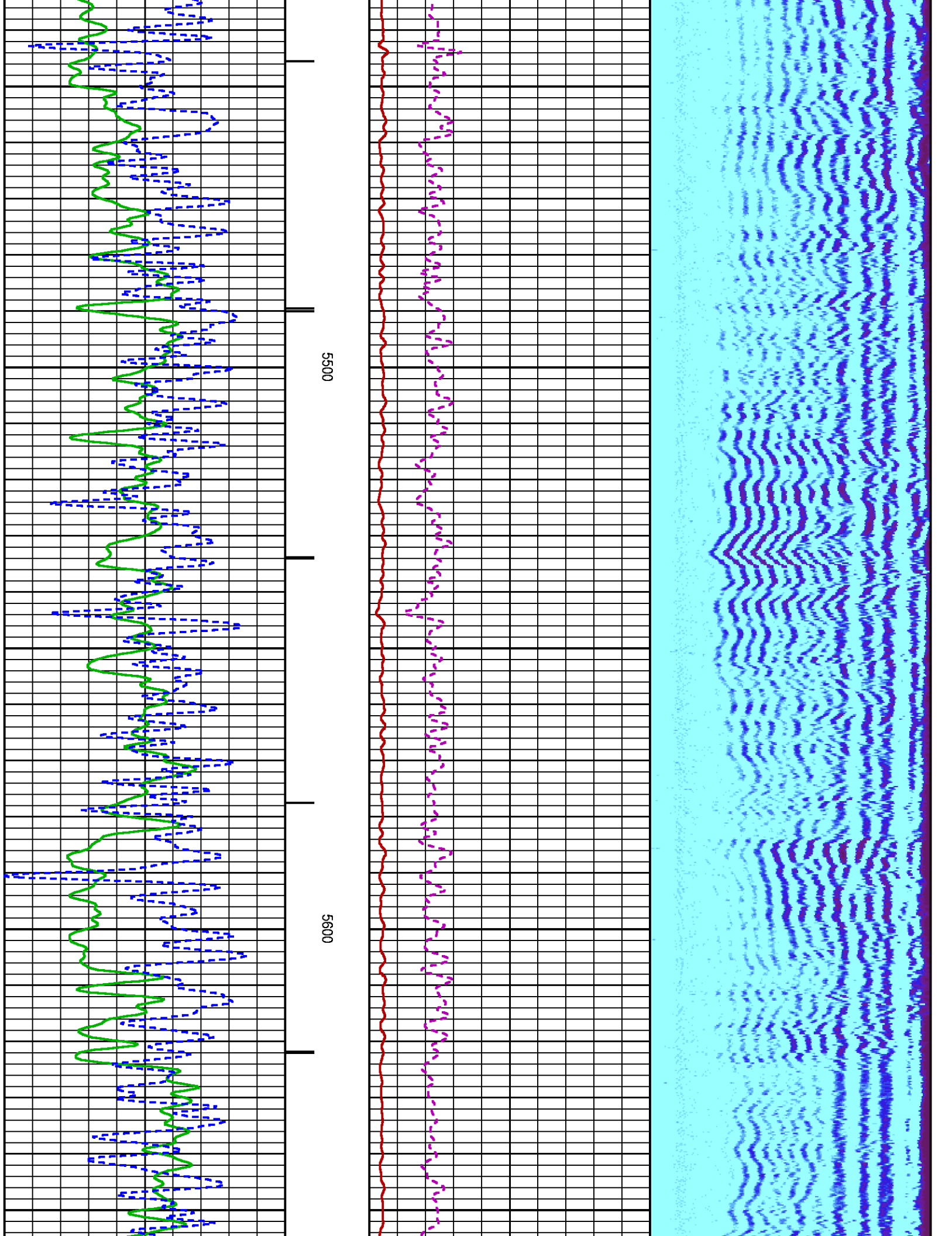


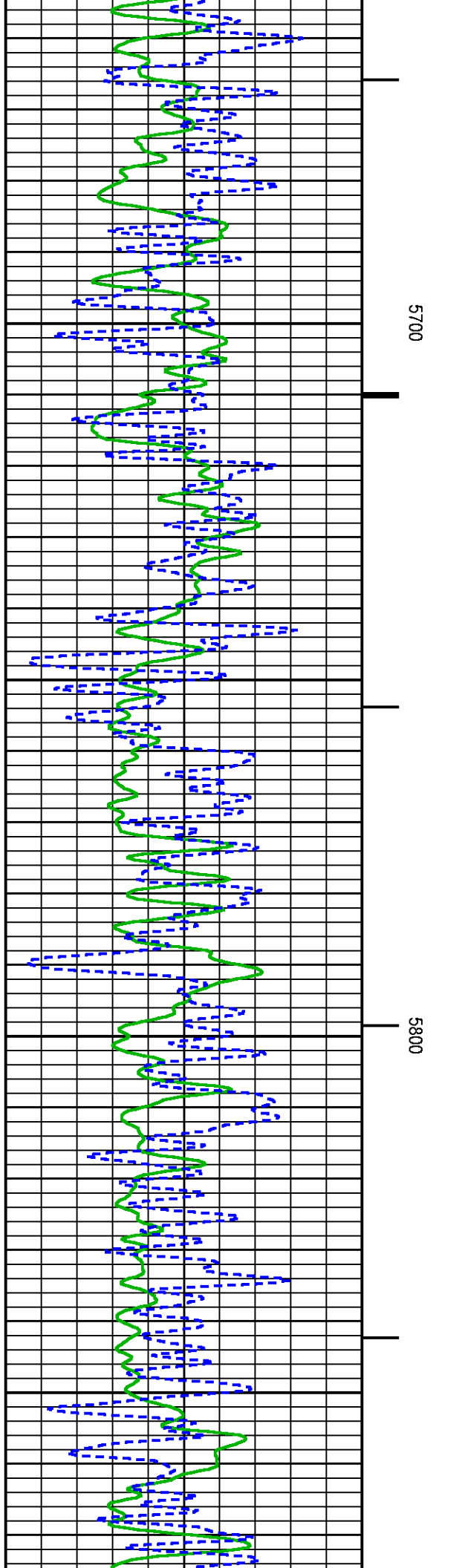
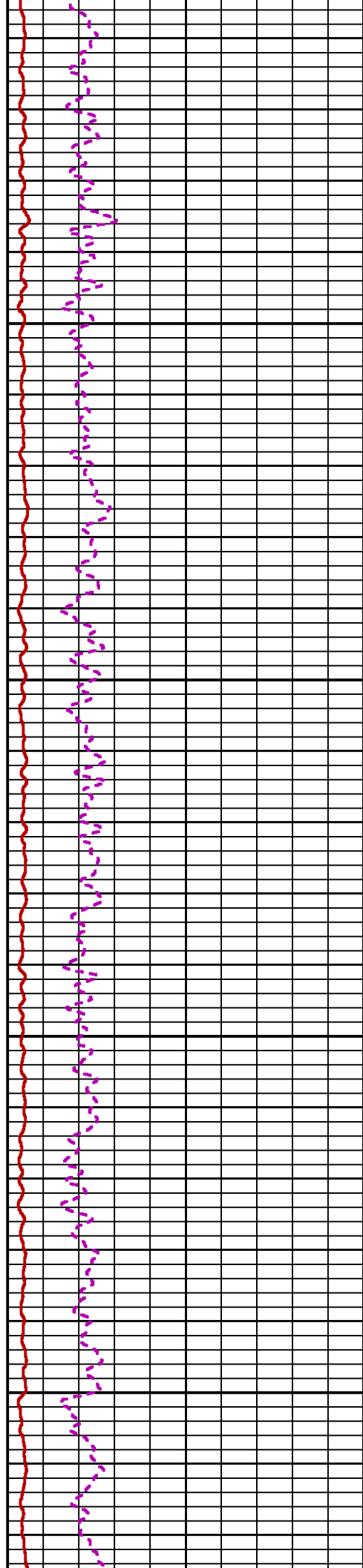
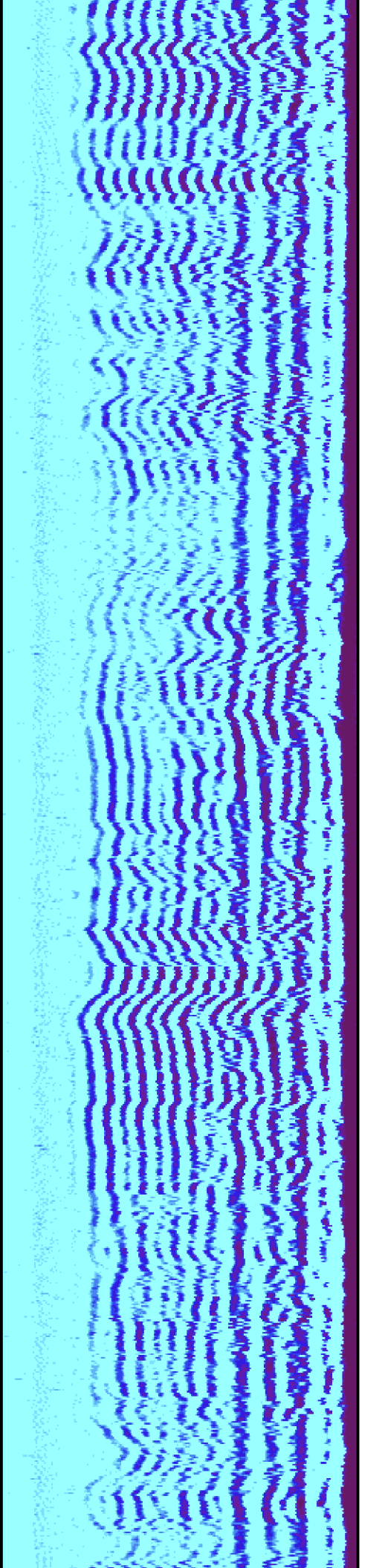


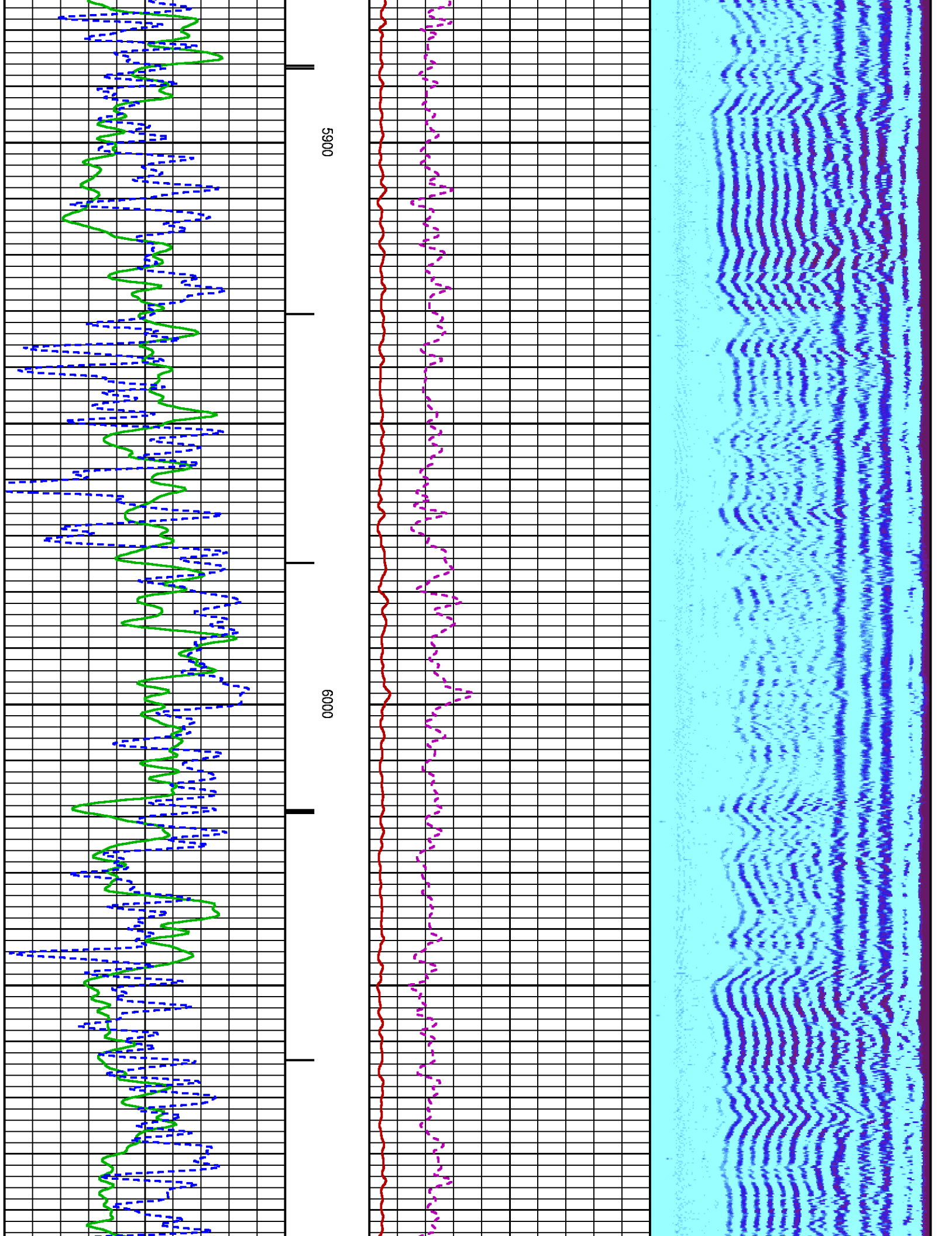
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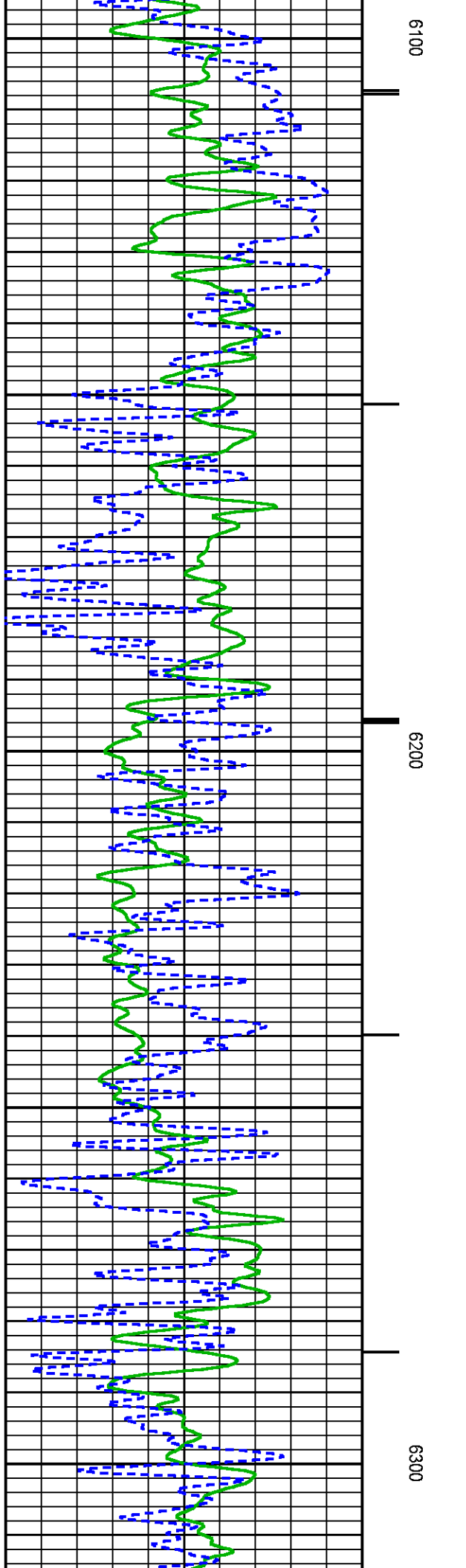
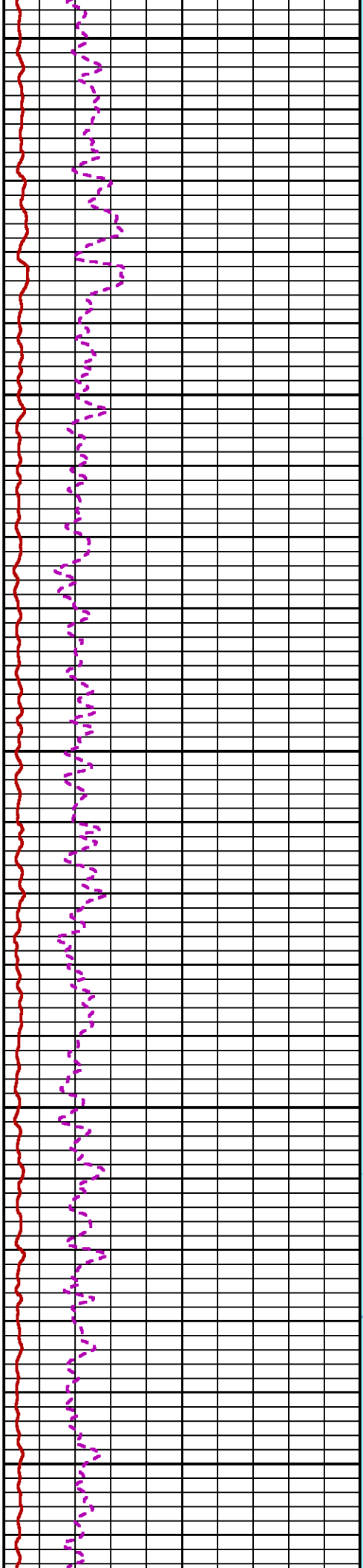
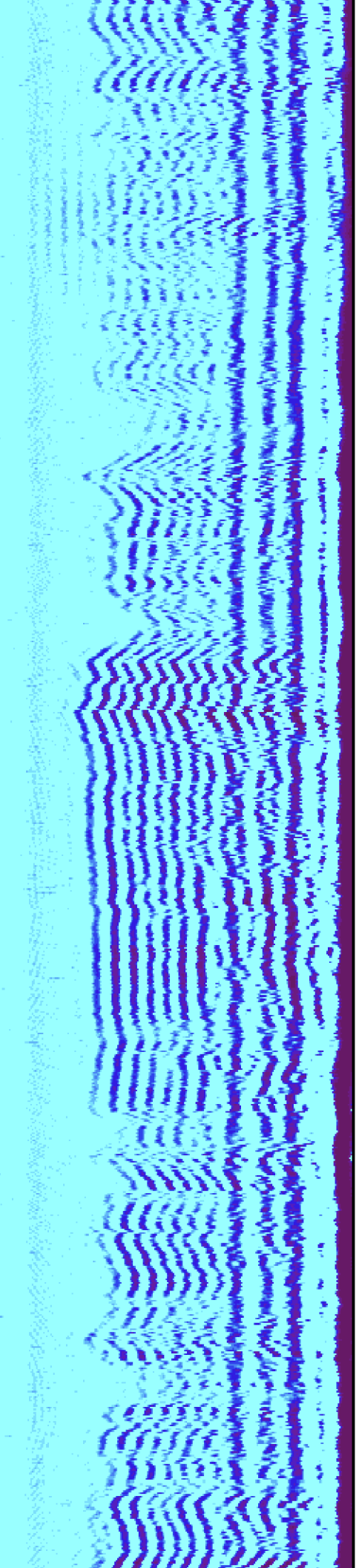
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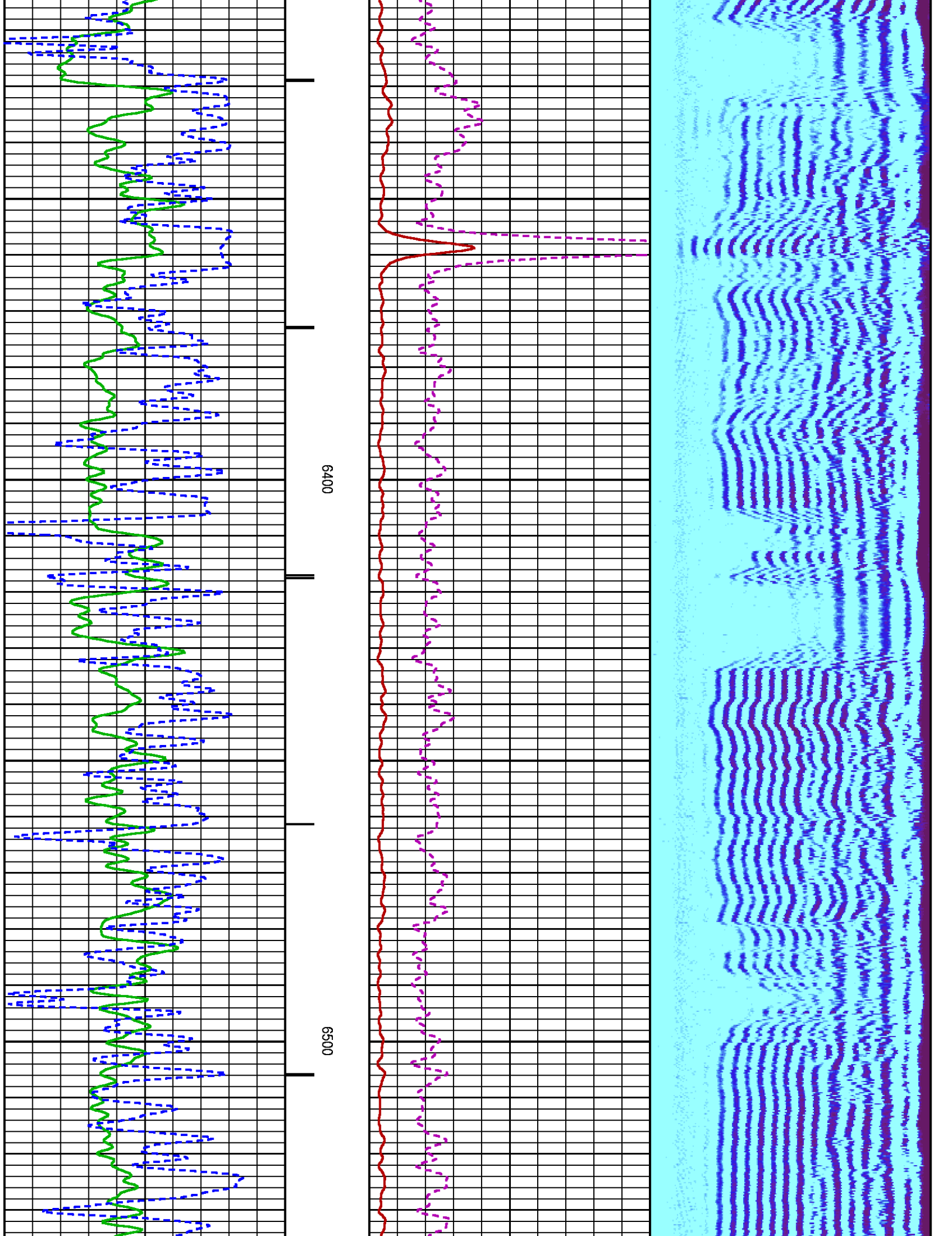


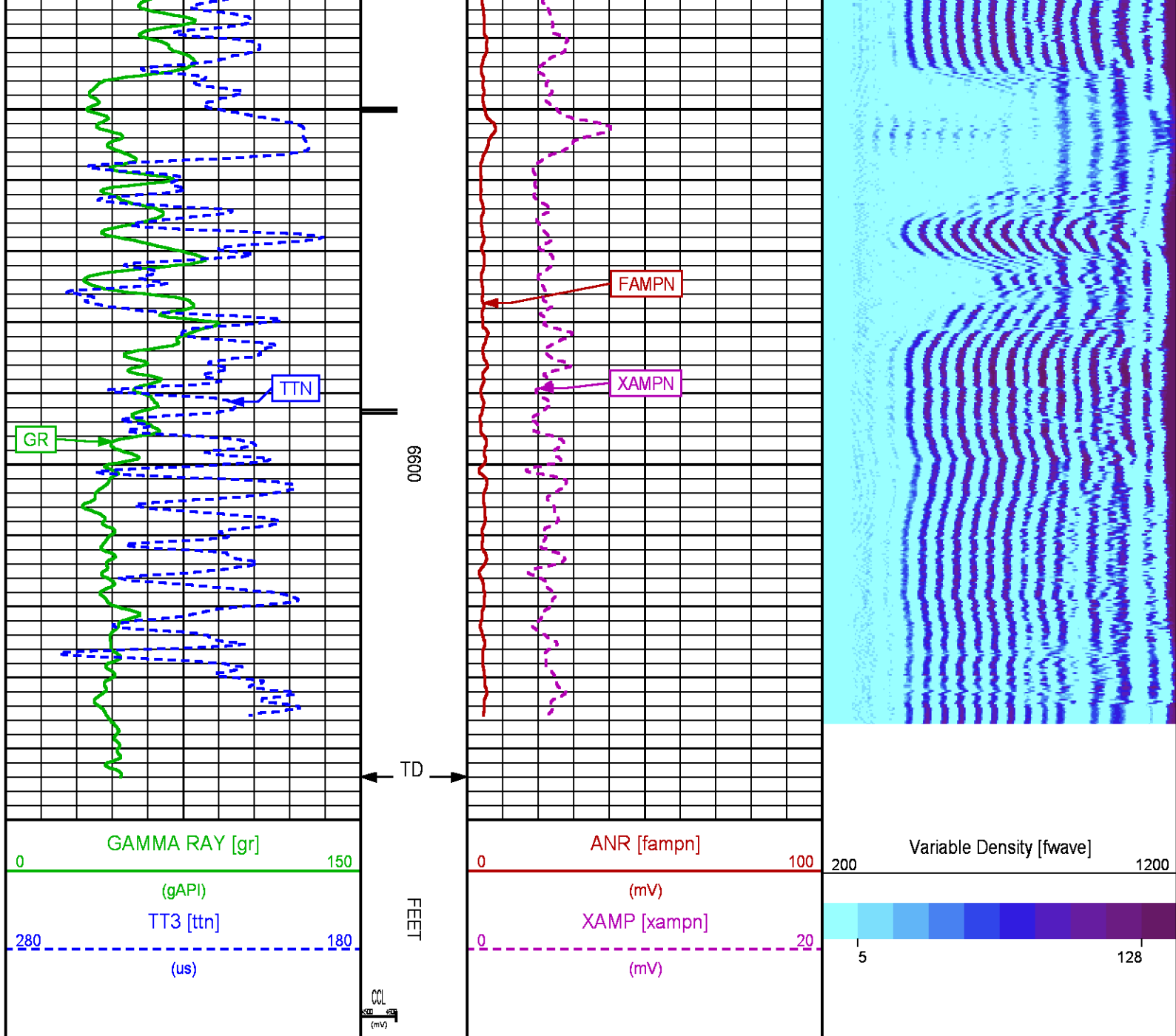












SECONDARY PRESENTATION 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014

Plotted: Mon Dec 29 20:21:32 2014

PARAMETER AND FILTER SUMMARY REPORT

FILE: D:\WELLDATA\WPX\GM 332-12\012g02.prm
LOGGING MODE: DEPTH
TOP DEPTH: 27.000 ft
DIRECTION: UP
BOTTOM DEPTH: 6644.043 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"
RAL CCL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	187	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	187	us	"	"
	AMP WINDOW START (fgp3*)	187	us	"	"
	AMP WINDOW START (fgp4*)	187	us	"	"
	AMP WINDOW START (fgp5*)	187	us	"	"
	AMP WINDOW START (fgp6*)	187	us	"	"
	AMP WINDOW START (fgp7*)	187	us	"	"
	AMP WINDOW START (fgp8*)	187	us	"	"
	AMP WINDOW START (fgpn*)	187	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	175	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (str1*)	-66	us	"	"
	TOOL DELAY (str2*)	-66	us	"	"
	TOOL DELAY (str3*)	-66	us	"	"
	TOOL DELAY (str4*)	-66	us	"	"
	TOOL DELAY (str5*)	-66	us	"	"
	TOOL DELAY (str6*)	-66	us	"	"
	TOOL DELAY (str7*)	-66	us	"	"
	TOOL DELAY (str8*)	-66	us	"	"
	TOOL DELAY (strn*)	-66	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND AMP REC 2	2	mV	"	"
	FULL BOND AMP REC 3	2	mV	"	"
	FULL BOND AMP REC 4	2	mV	"	"
	FULL BOND AMP REC 5	2	mV	"	"
	FULL BOND AMP REC 6	2	mV	"	"
	FULL BOND AMP REC 7	2	mV	"	"
	FULL BOND AMP REC 8	2	mV	"	"

CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R1
F1:AR2	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R2
F1:AR3	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R3
F1:AR4	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R4
F1:AR5	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R5
F1:AR6	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R6
F1:AR7	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R7
F1:AR8	Dec 29 18:58:00 2014	FIXED GATE AMPLITUDE T-R8
F1:CCL	Dec 29 18:58:00 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 29 18:58:08 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 29 18:58:11 2014	FAR WAVE FORM

F1:WAVE

Dec 29 18:58:11 2014

F1:GR

Dec 29 18:58:11 2014

F1:PBMAP

Dec 29 18:58:14 2014

F1:TTN

Dec 29 18:58:15 2014

F1:XAMPN

Dec 29 18:58:15 2014

PAR WAVEFORM

GAMMA RAY

PERCENT BOND CEMENT MAP

TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER

FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

Presentation

Plot Interval

Data File 1

Created On

Company

Well

Field

File Interval

OCT

: BHI9G15WM1:D:WELLDATA\WPX\GM 332-12\332CBL_SECONDARY.fvpdf [5"/100' Scale]

: 0 - 6649 Feet

: F1 : BHI9G15WM1:D:WELLDATA\WPX\GM 332-12\332_CBL_MAIN1.XTF

: Dec 29 18:58:00 2014

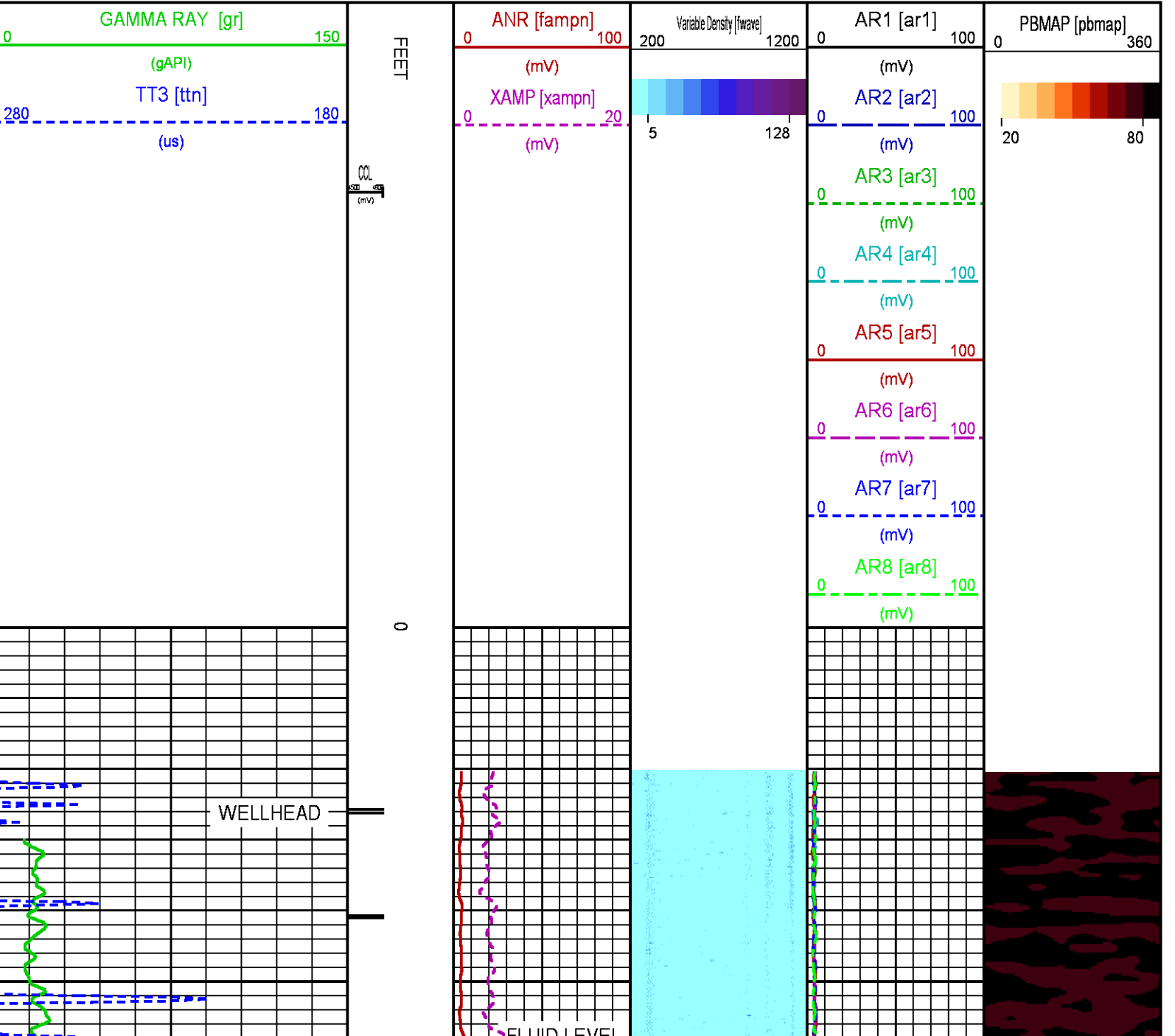
: WPX ENERGY

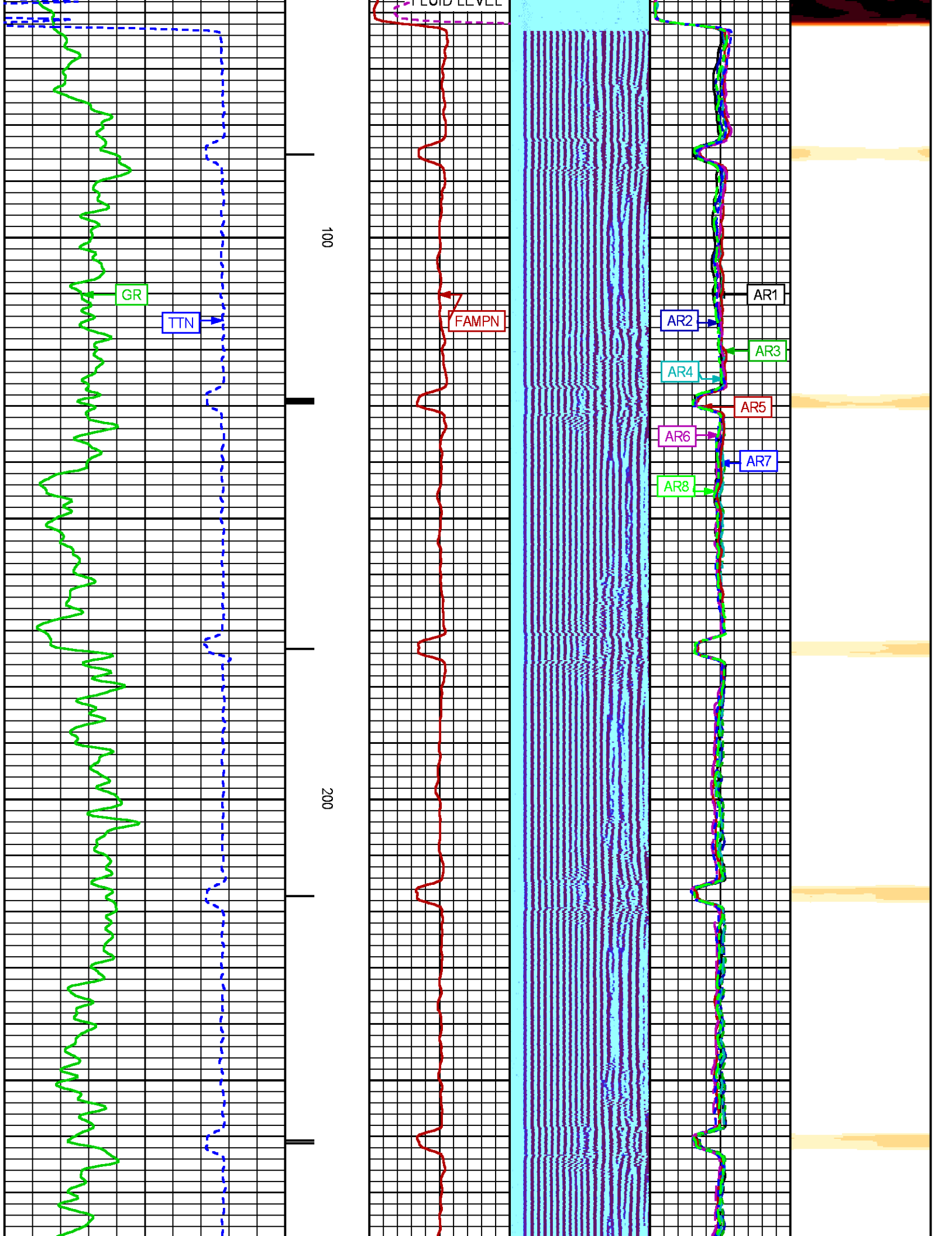
: GM 332-12

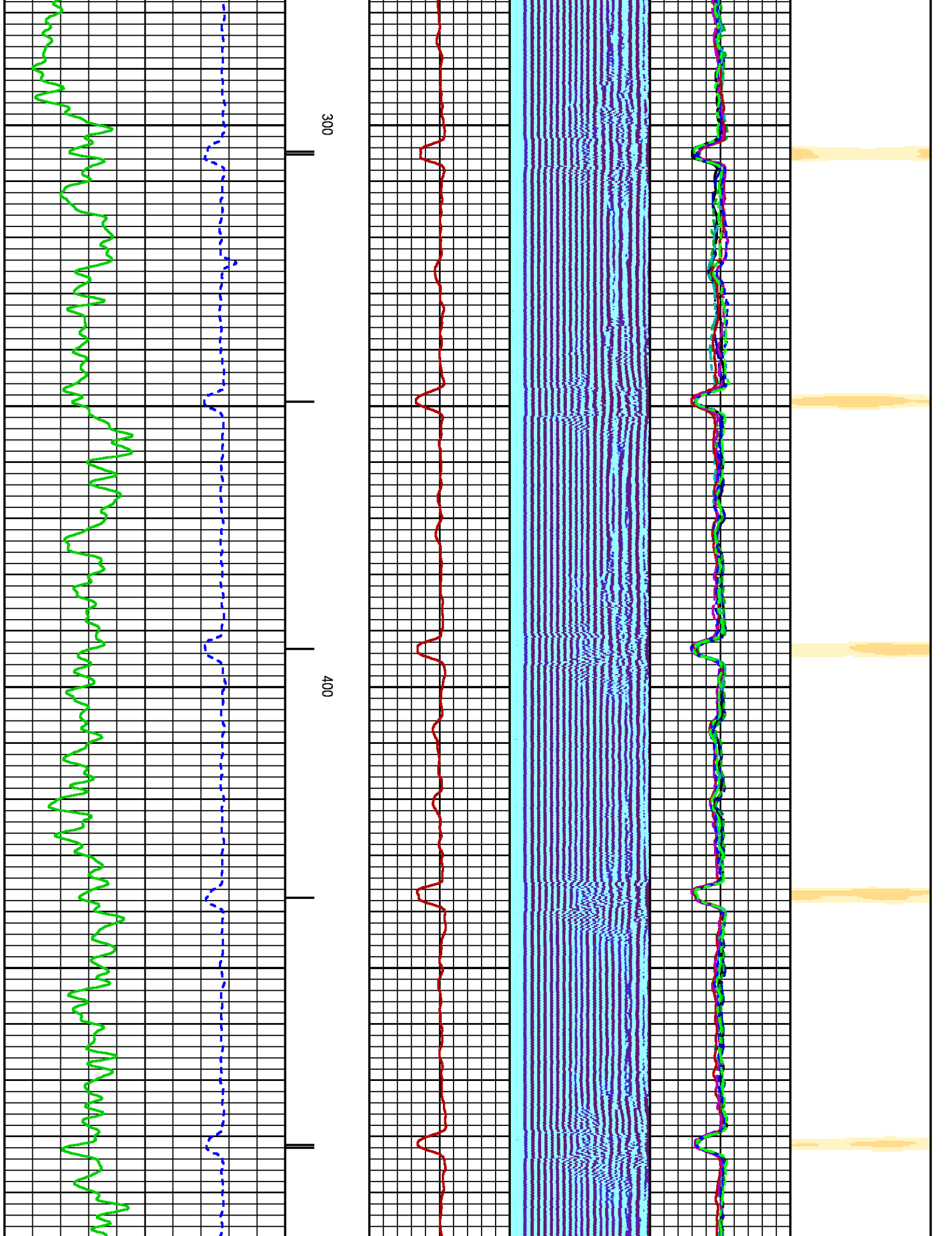
: GRAND VALLEY

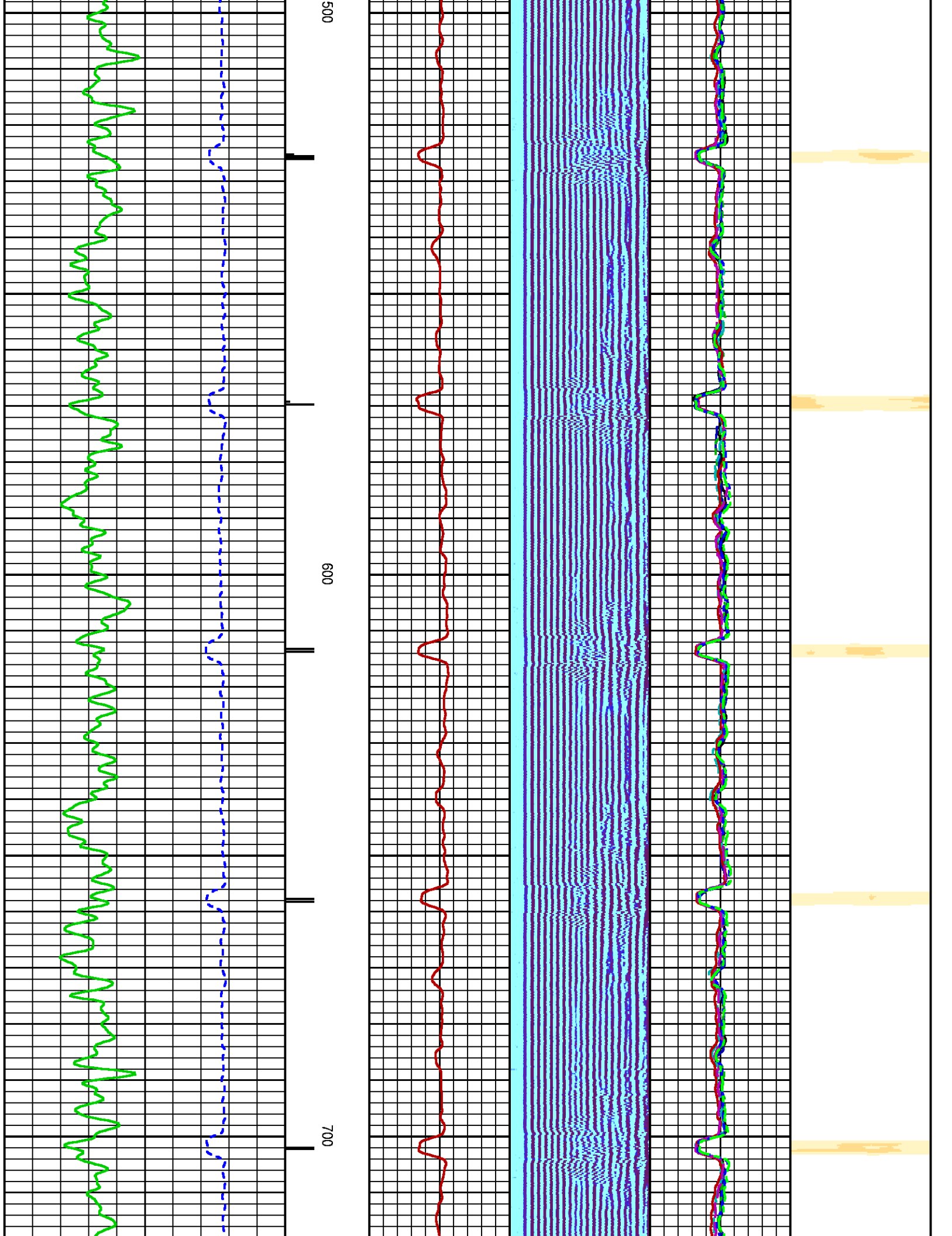
: 19.25 - 6646.75 Feet

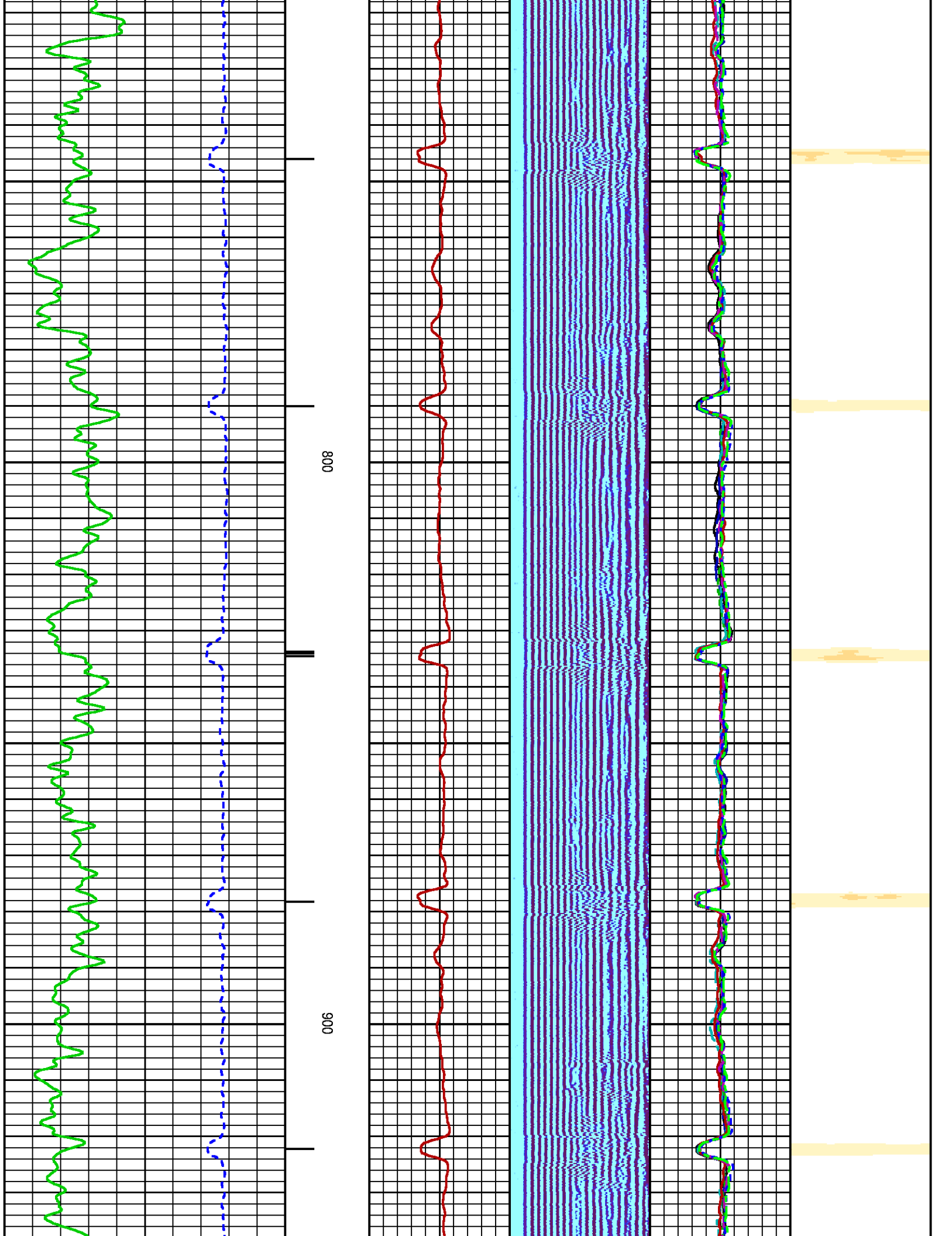
: n012g

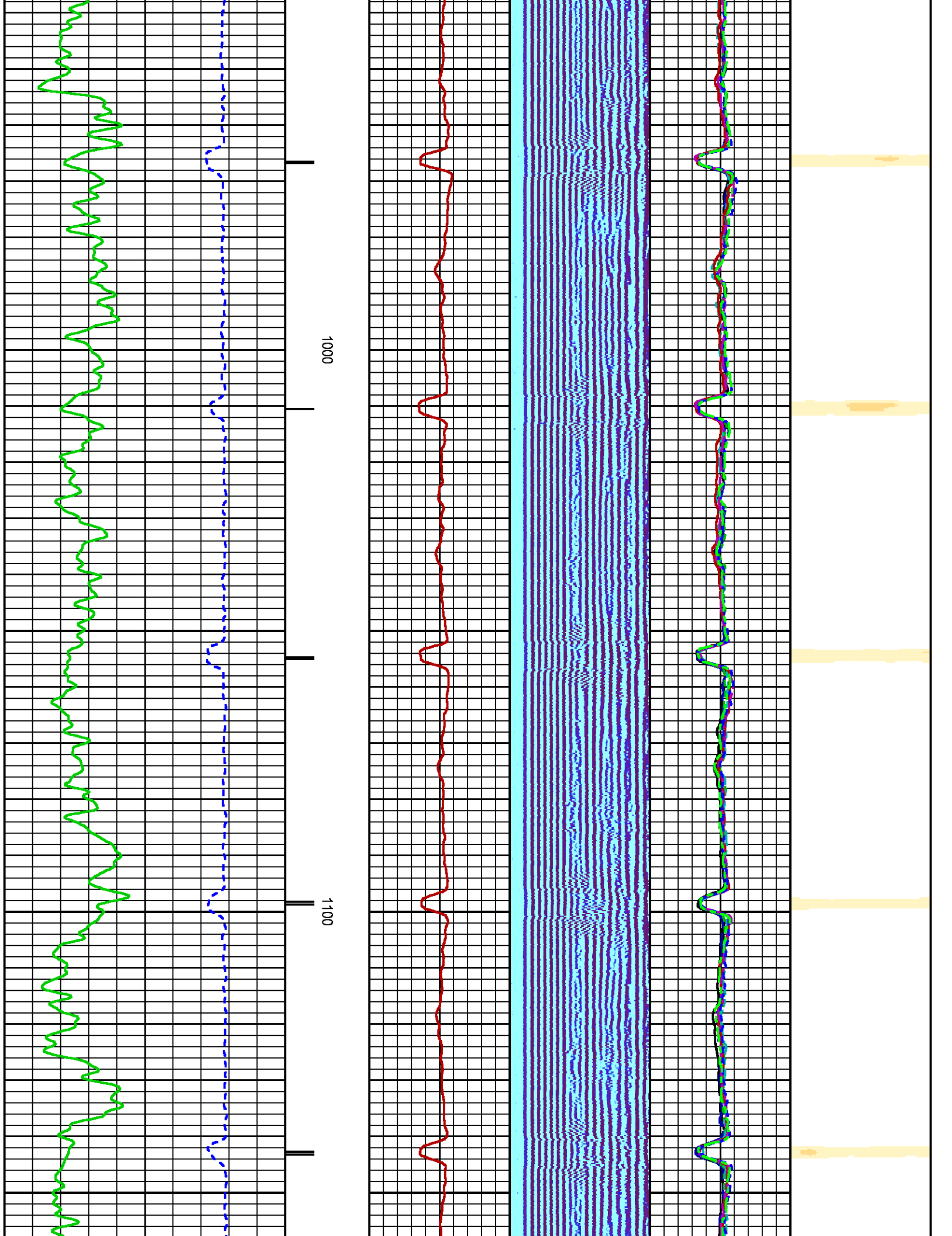


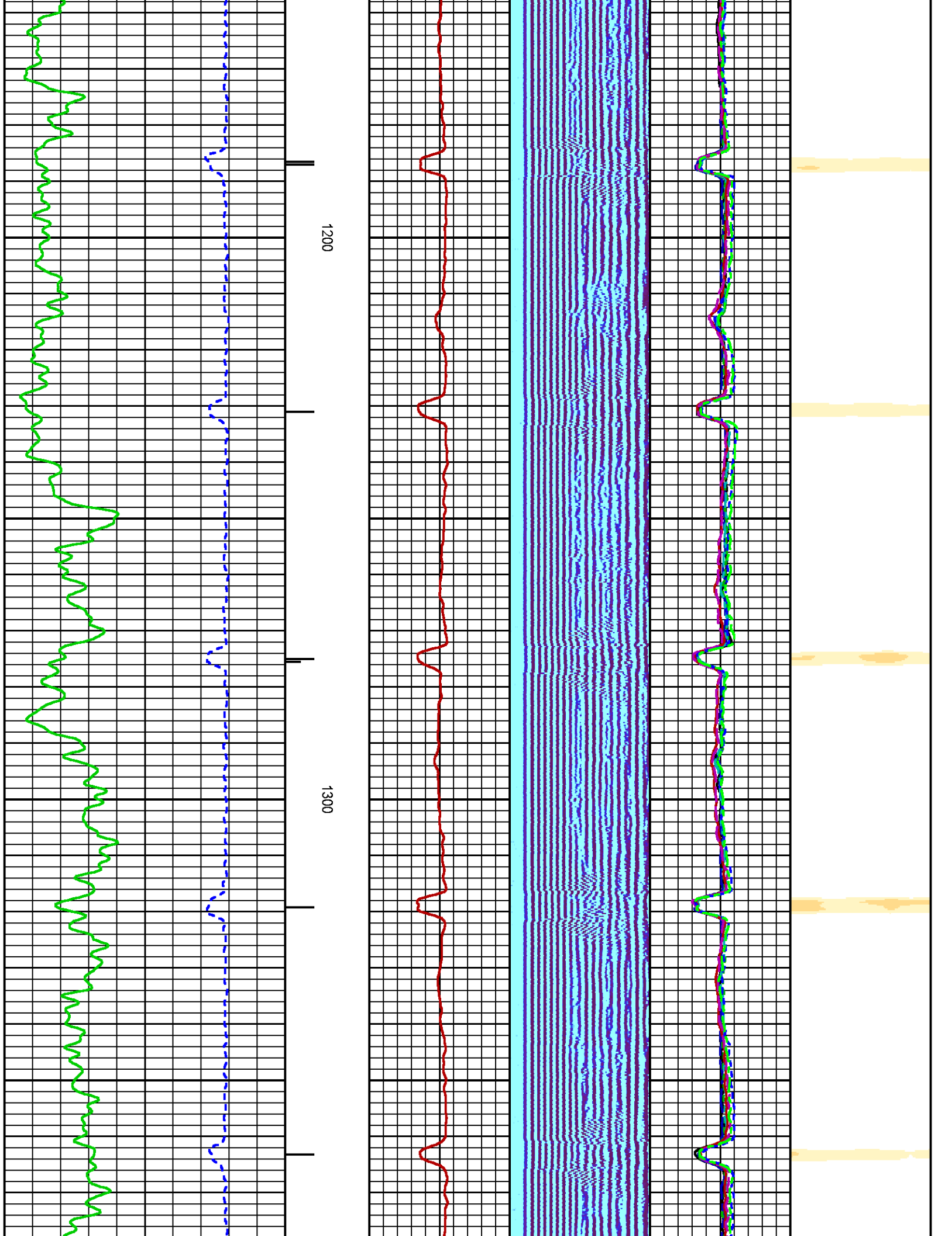


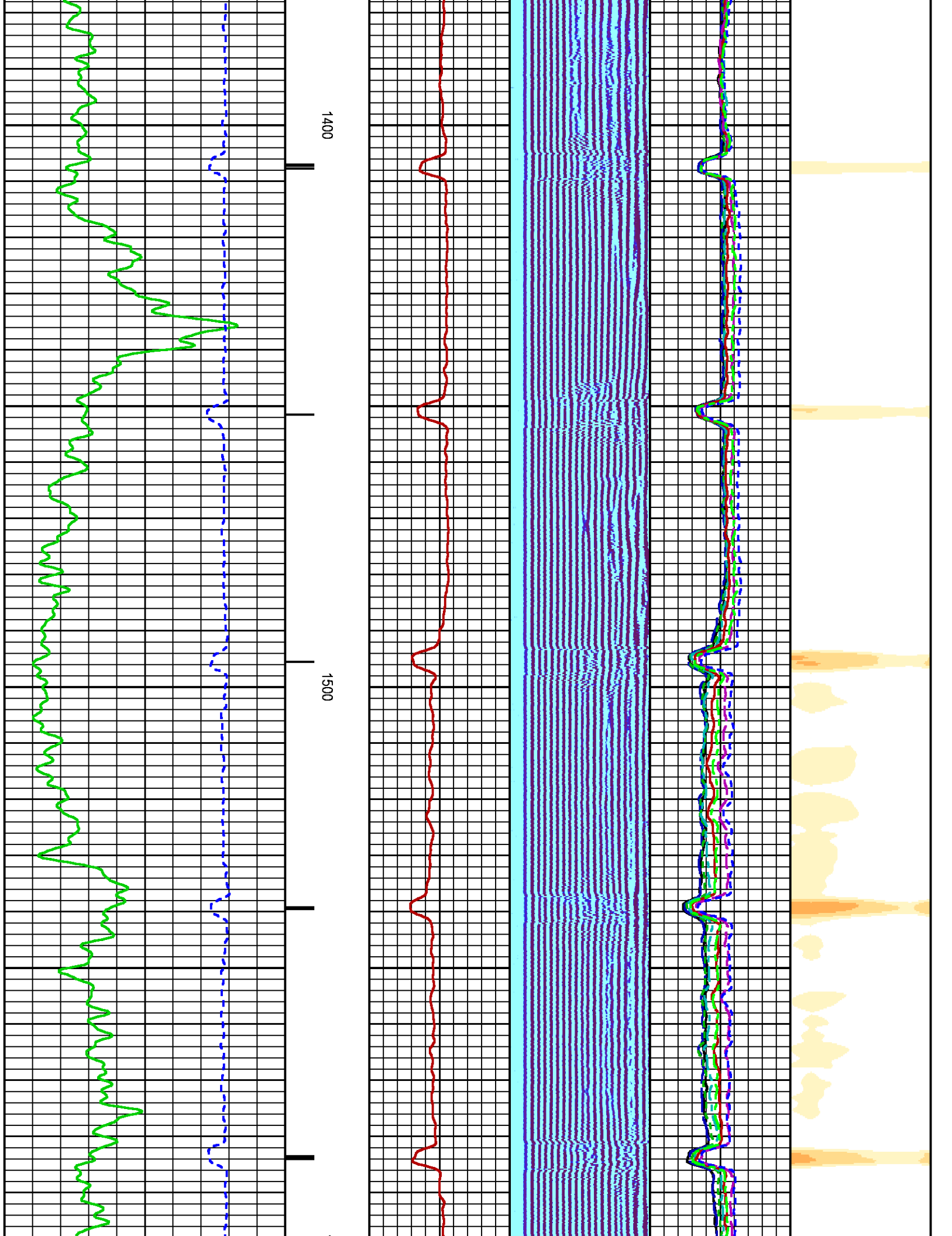


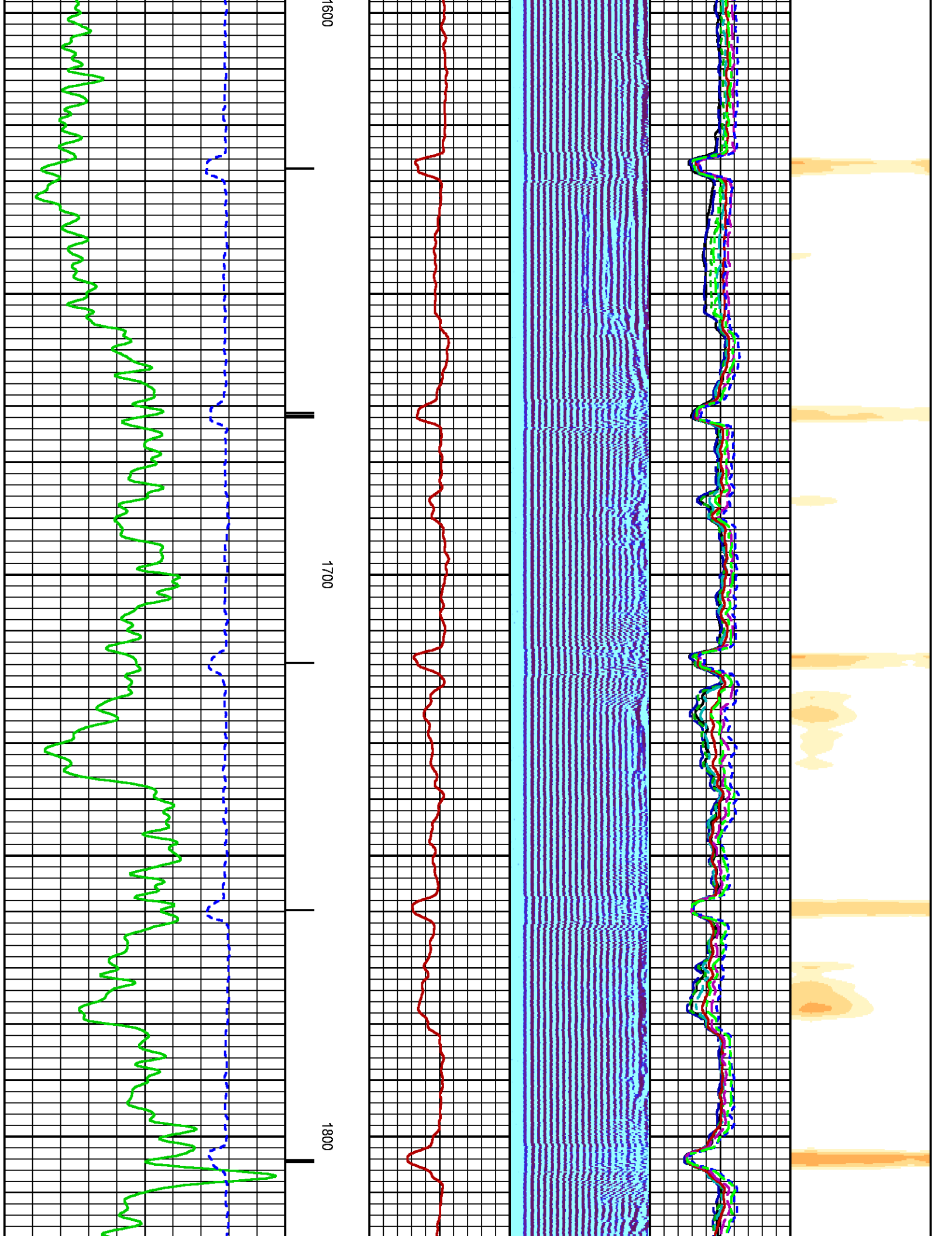


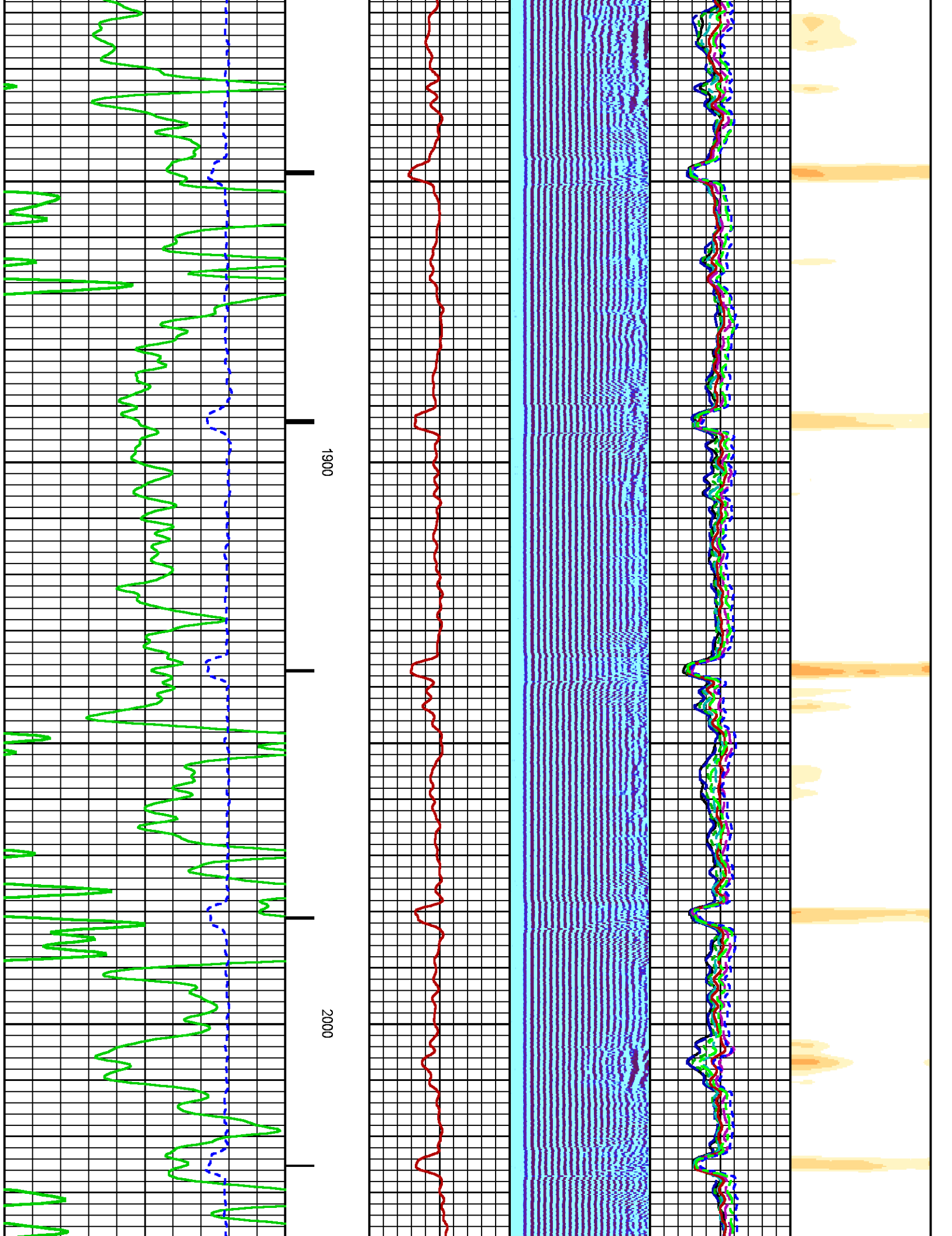


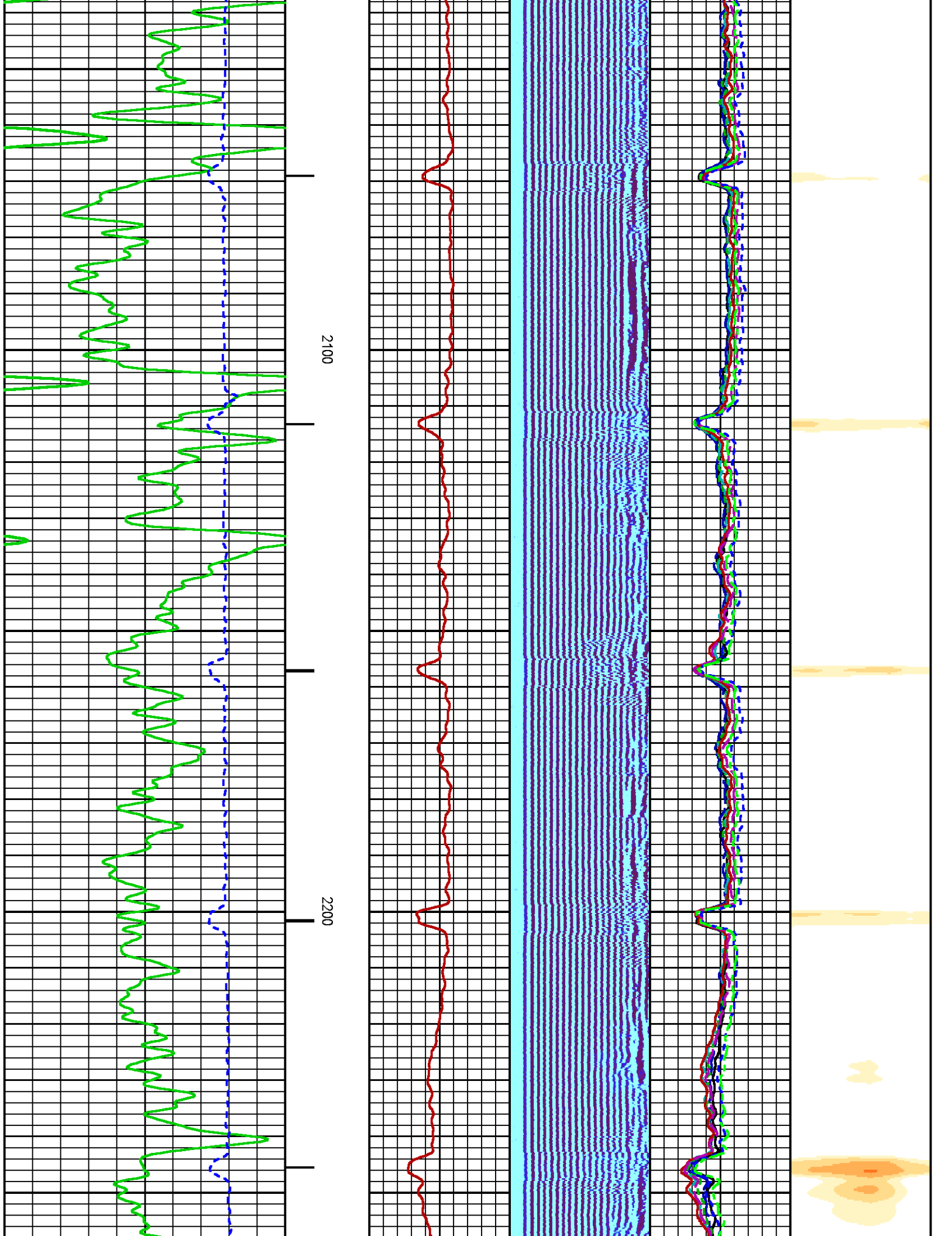


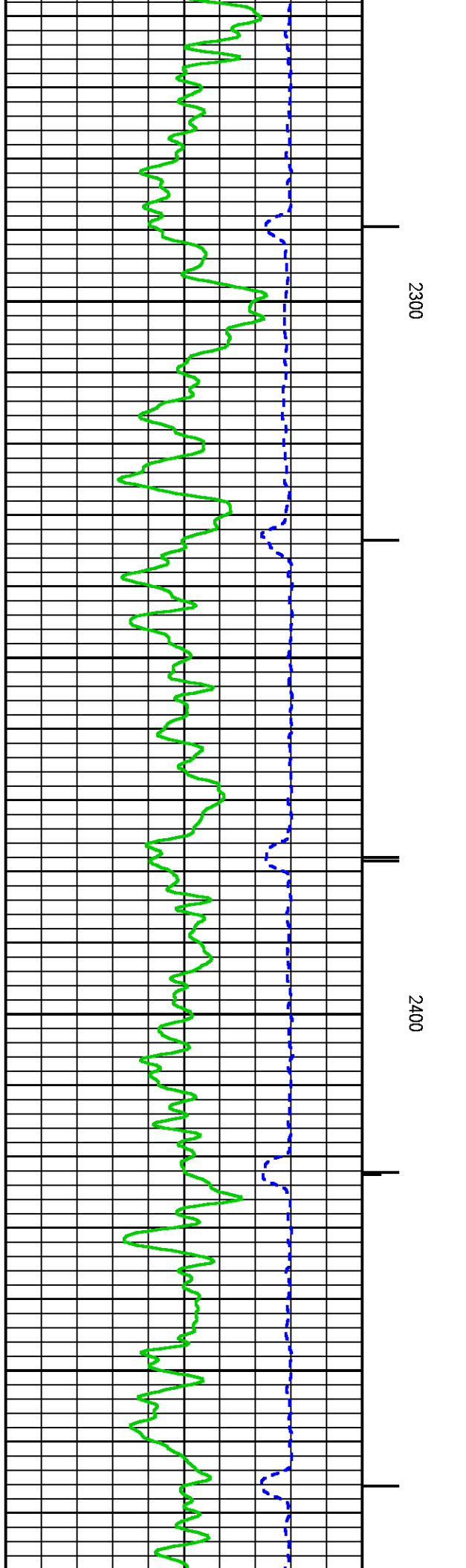
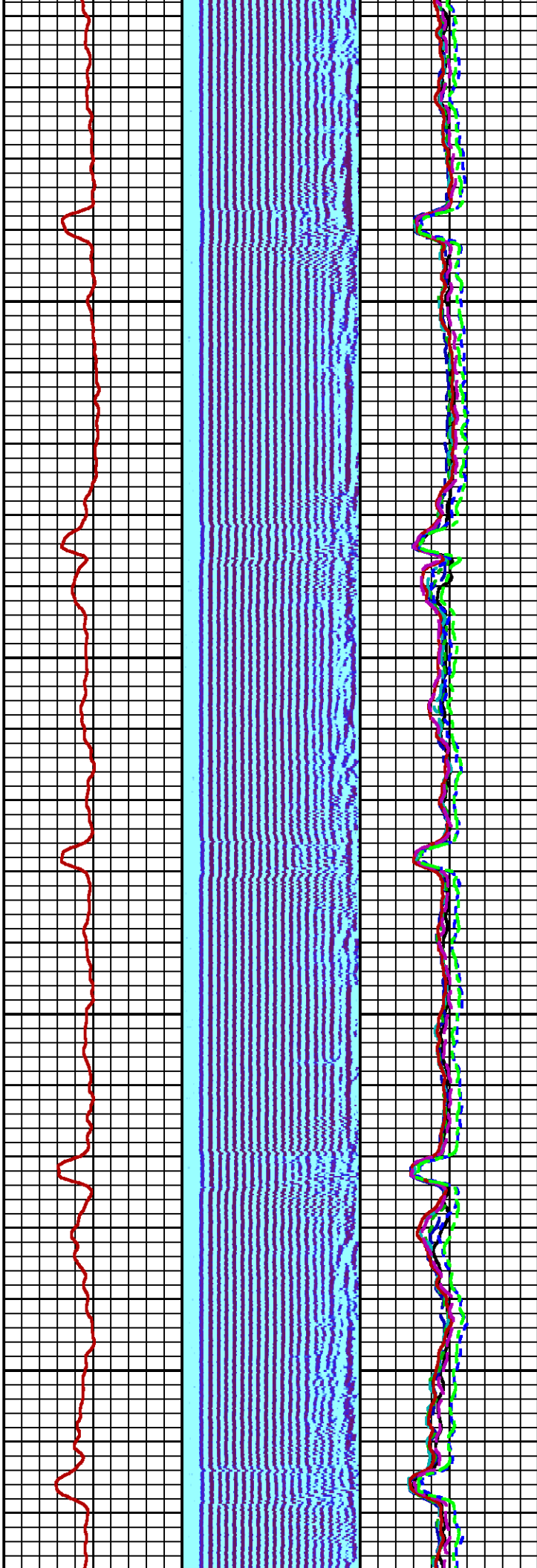
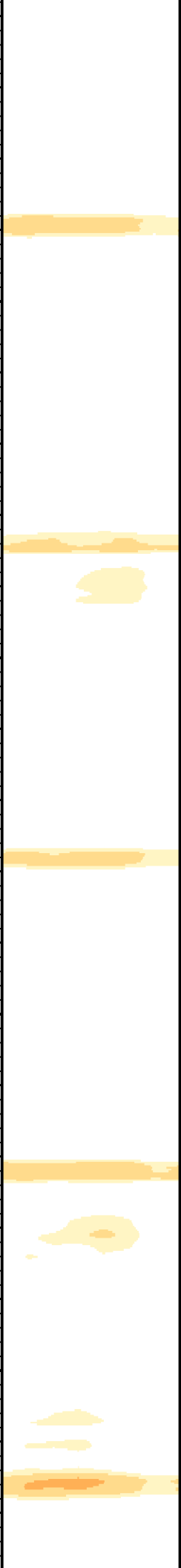


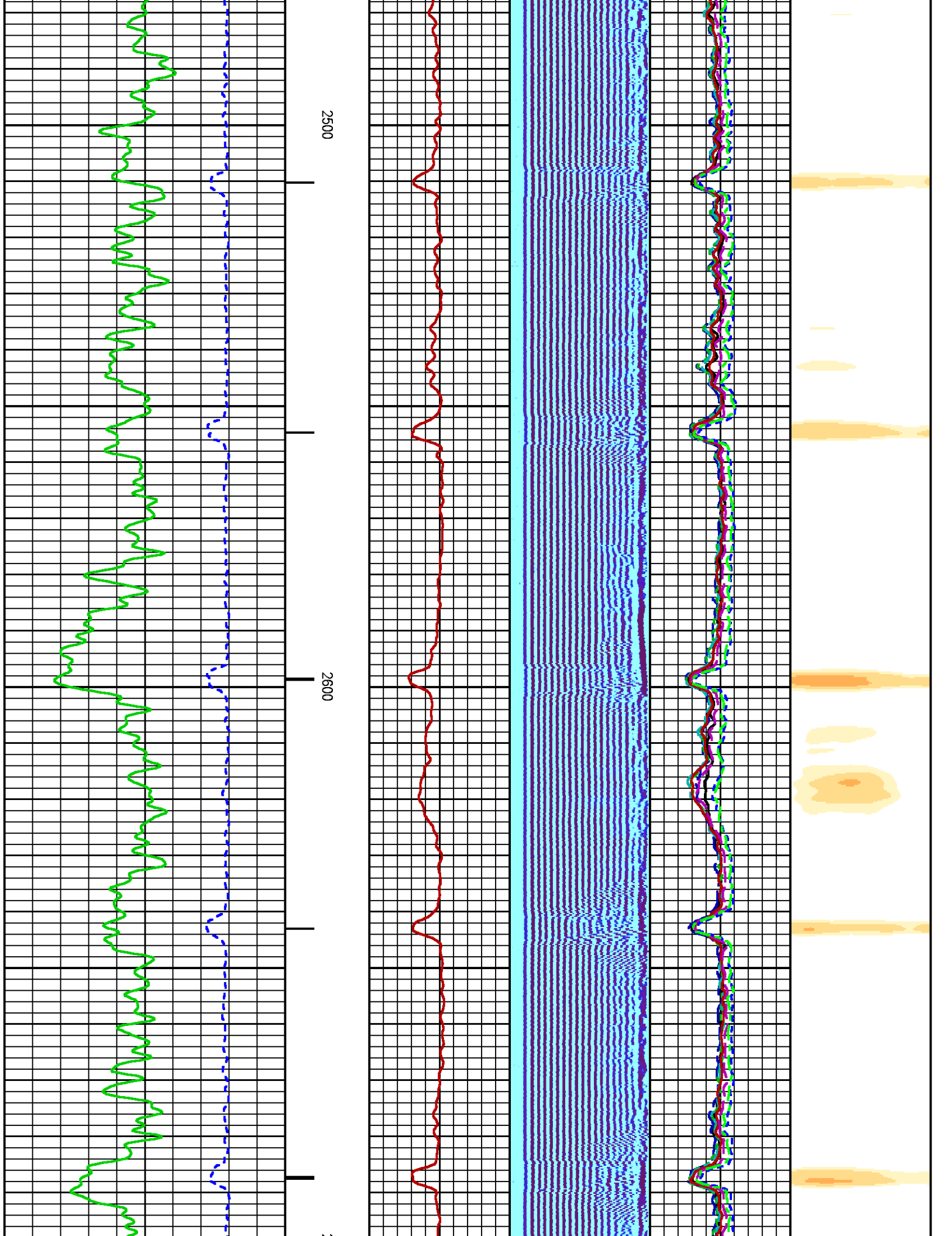


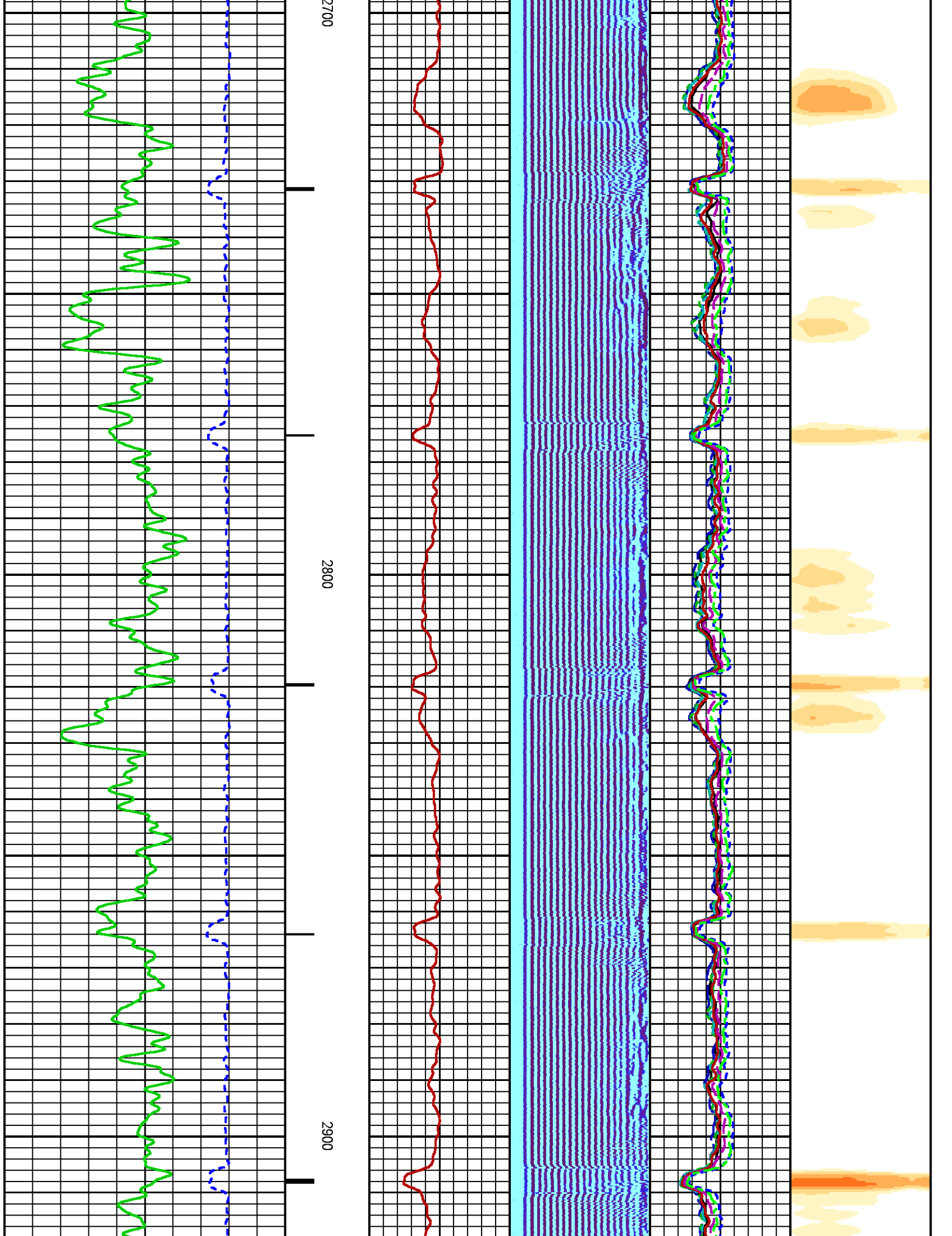


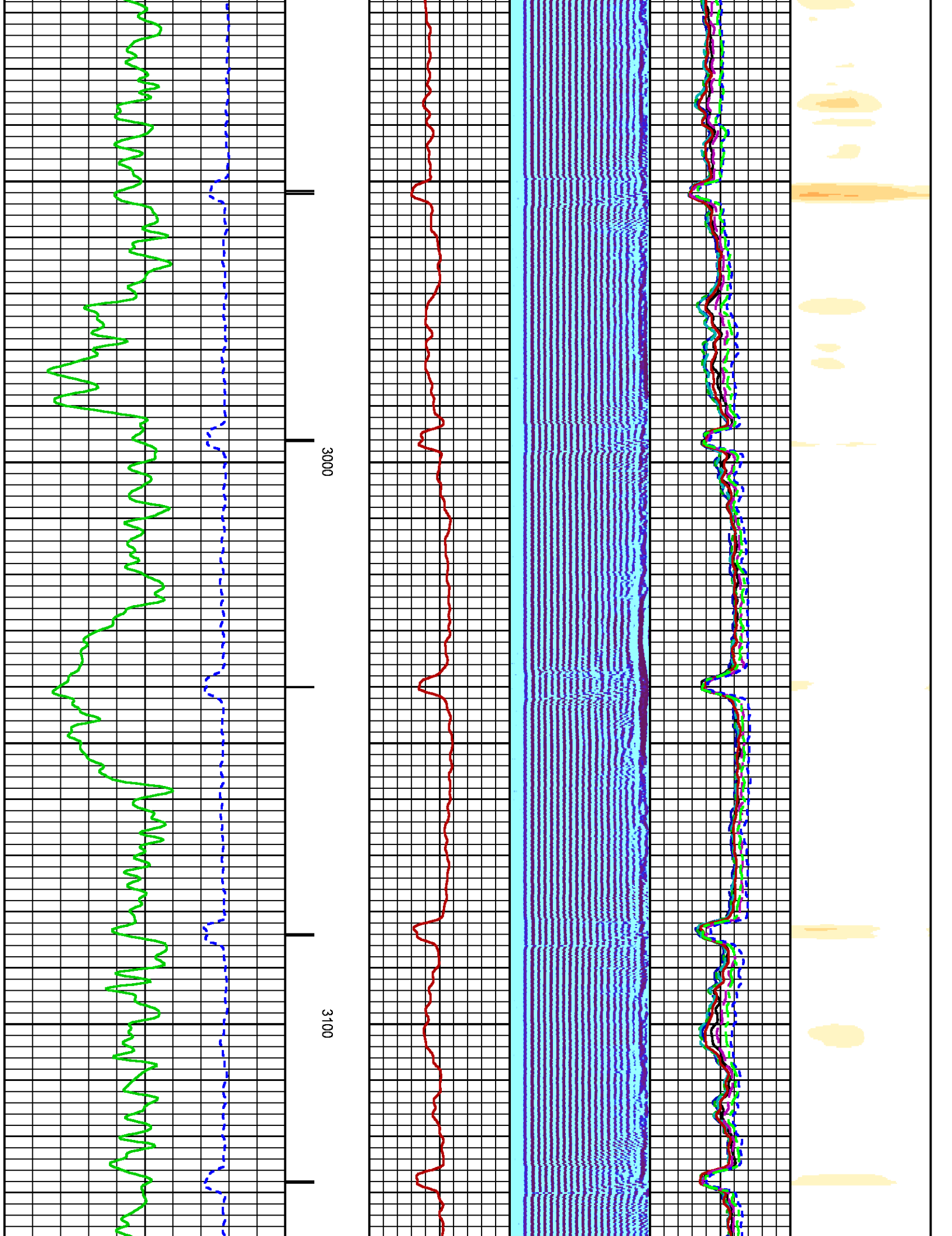


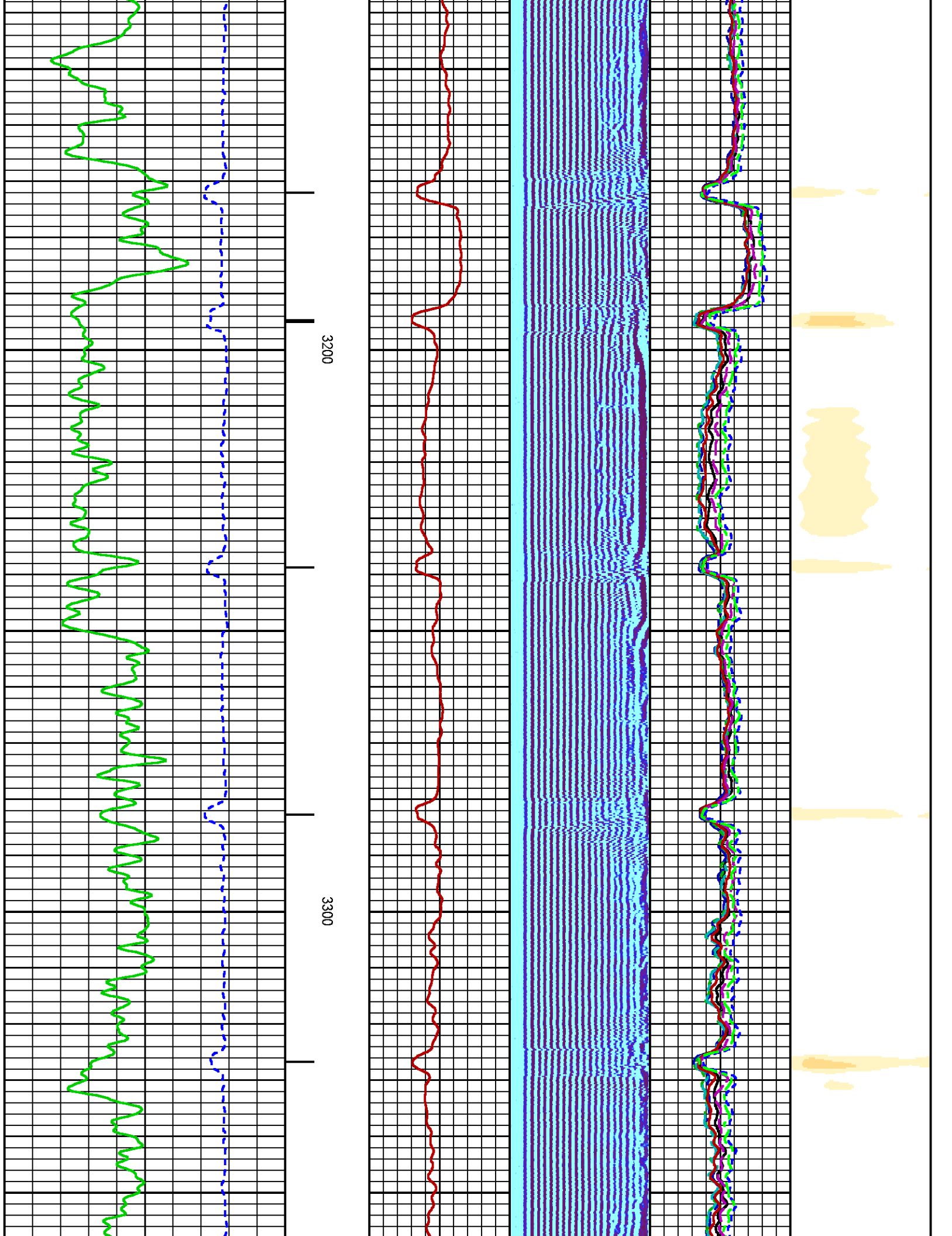


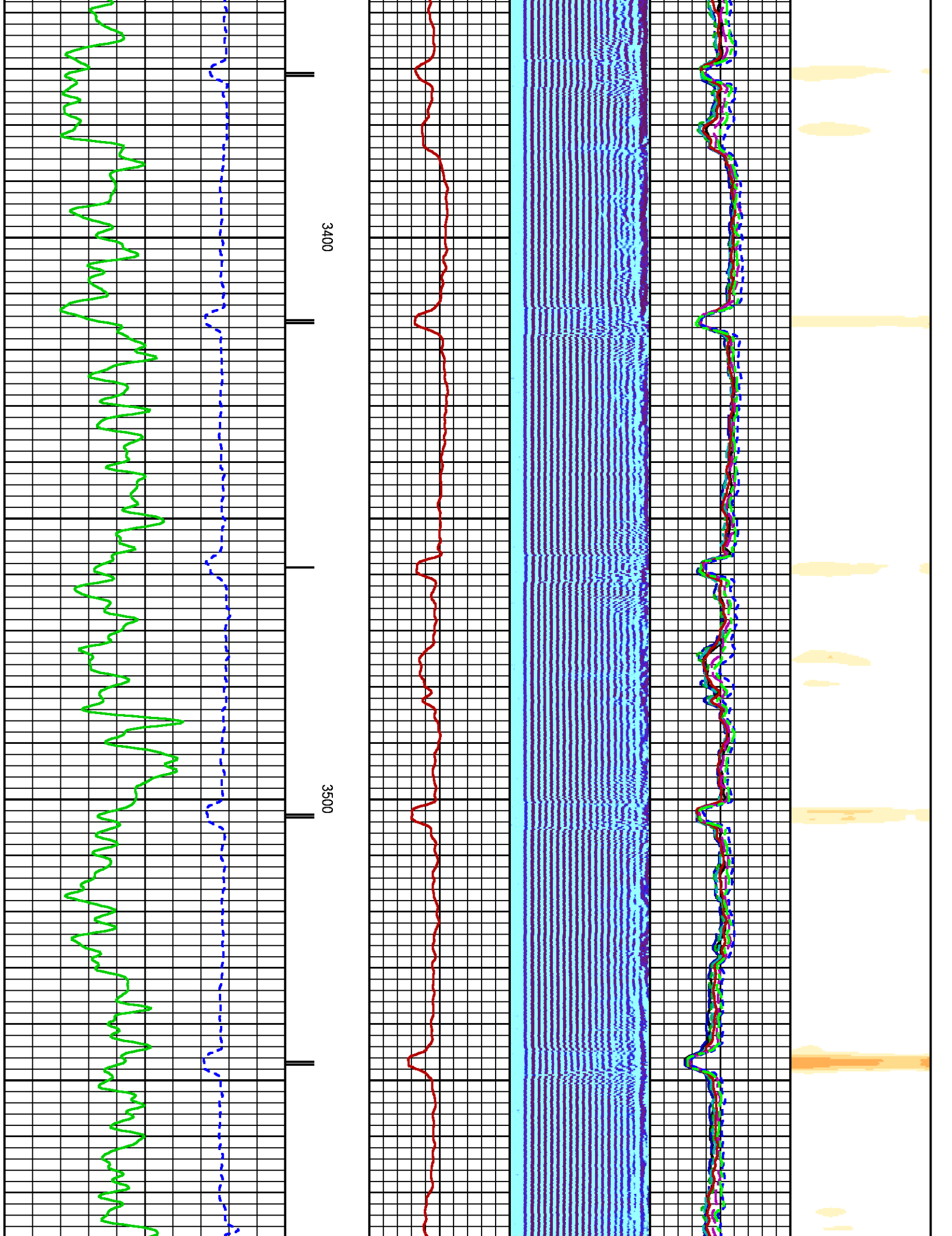


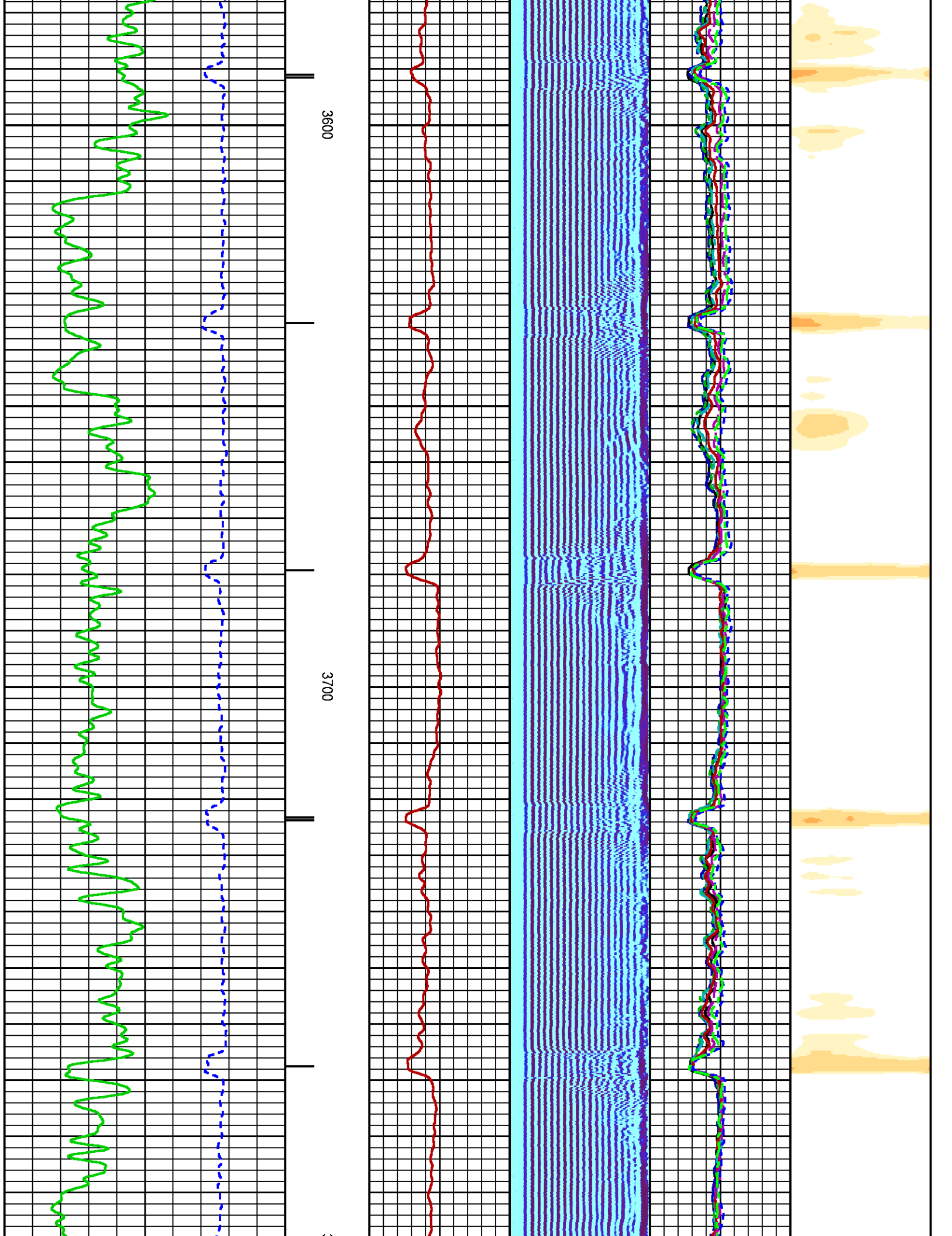


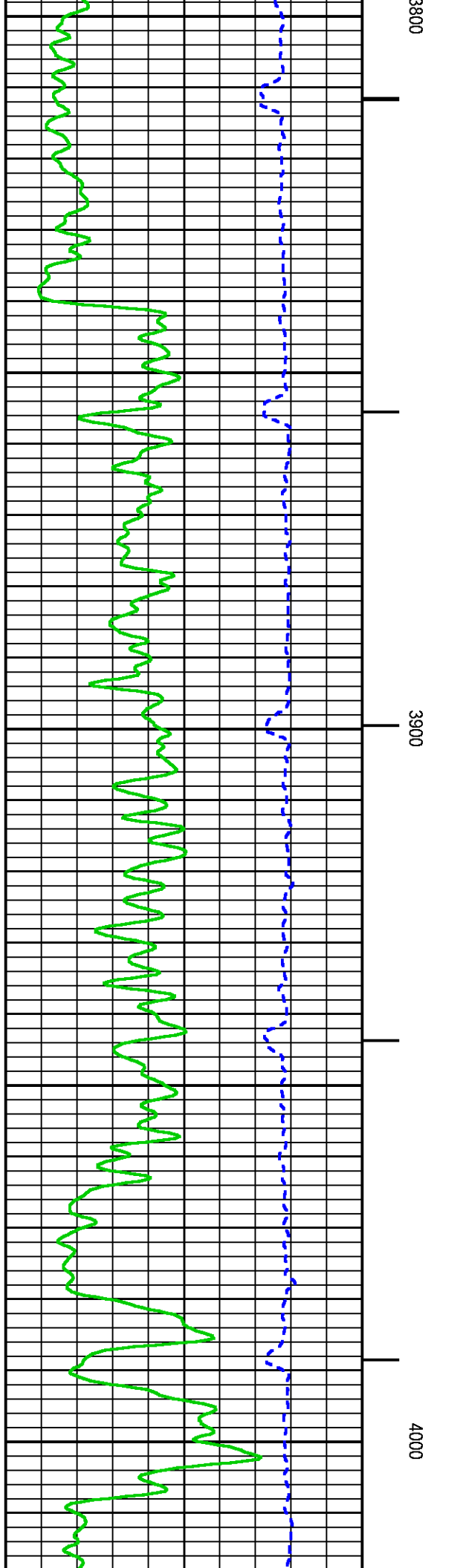
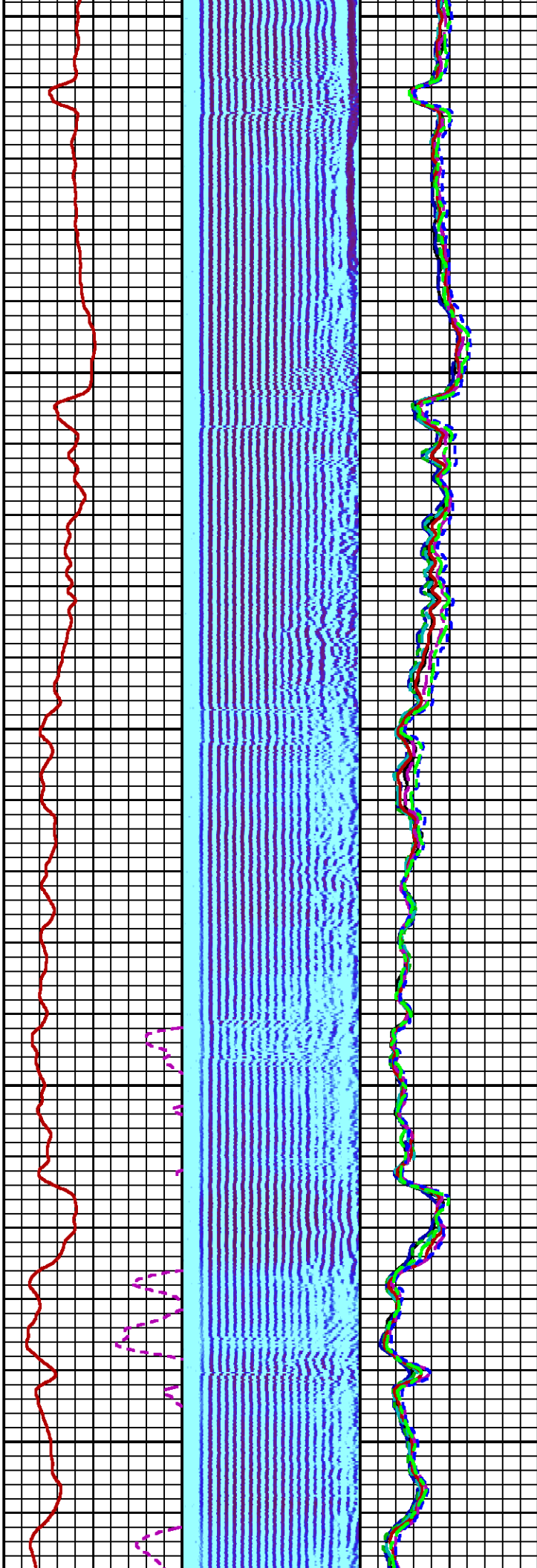
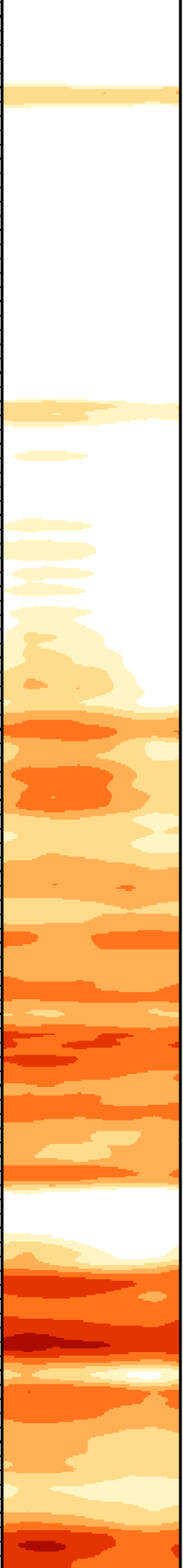


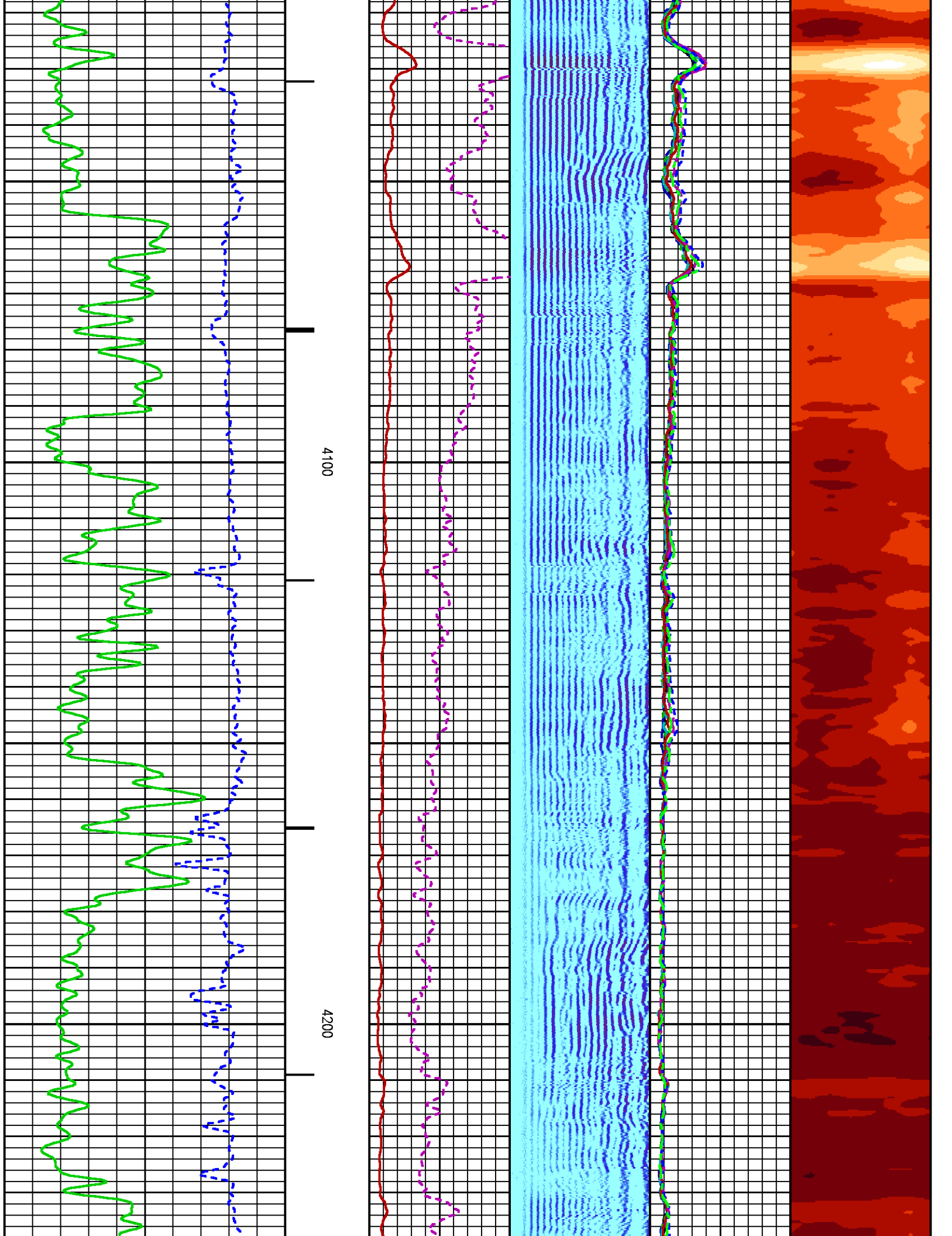


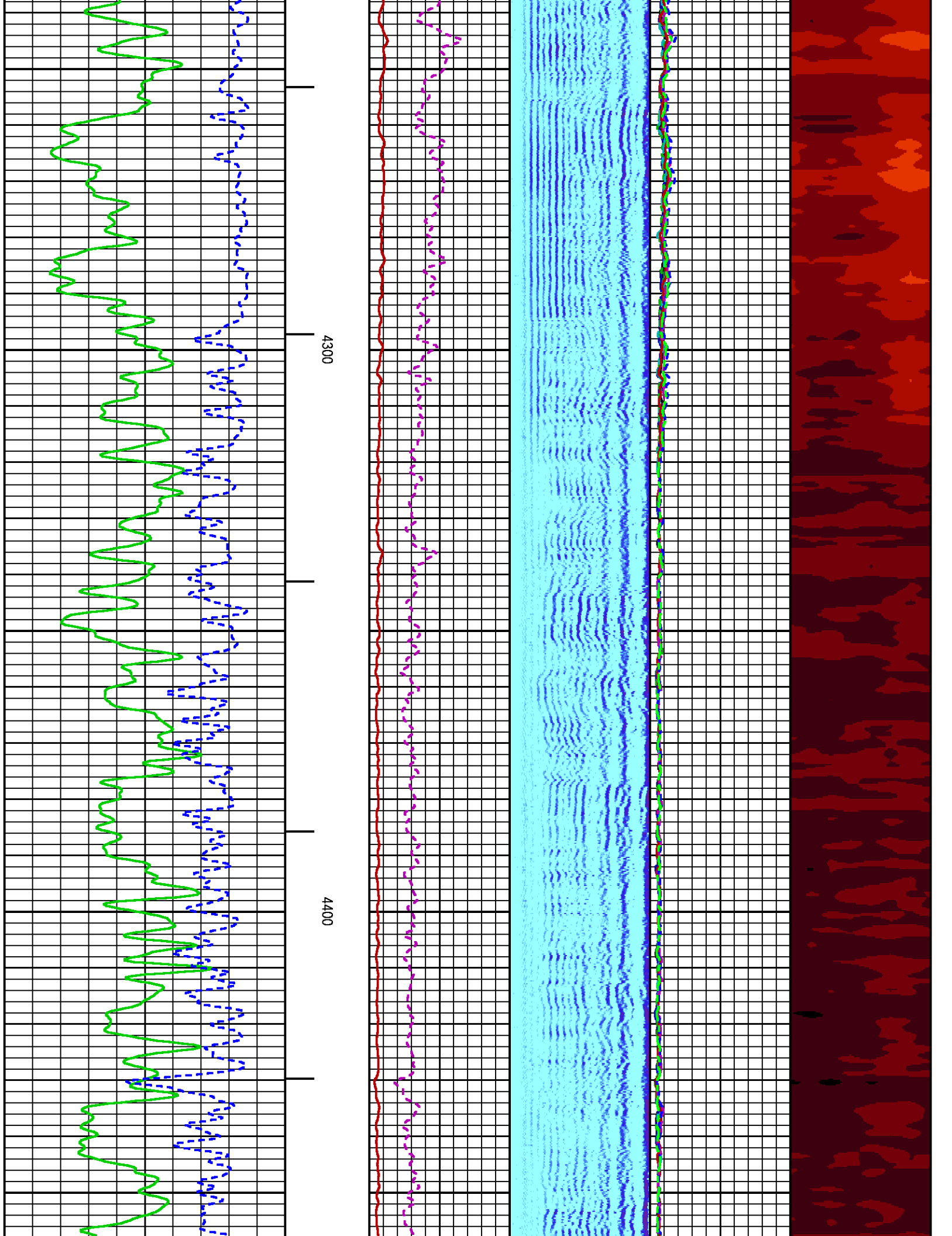


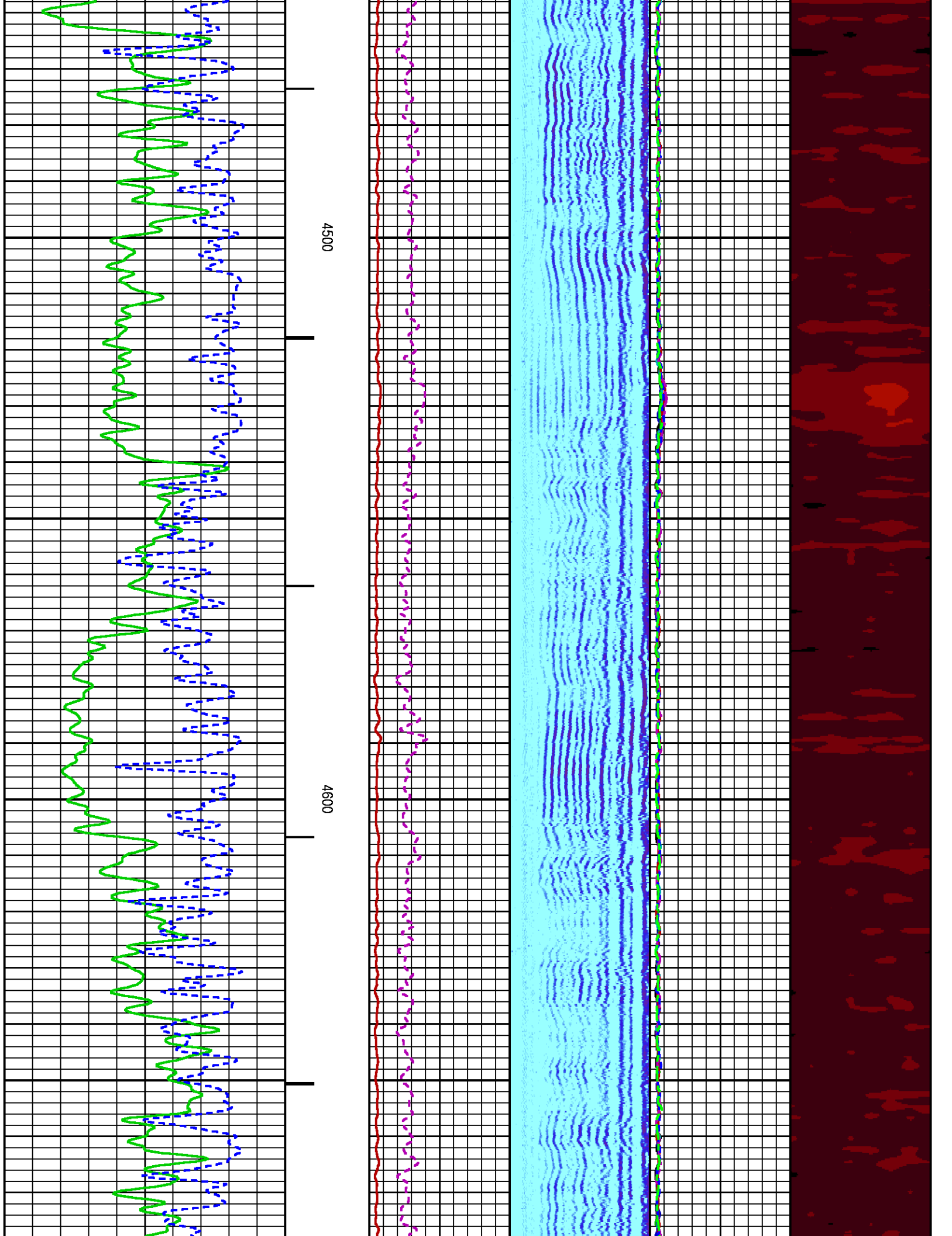


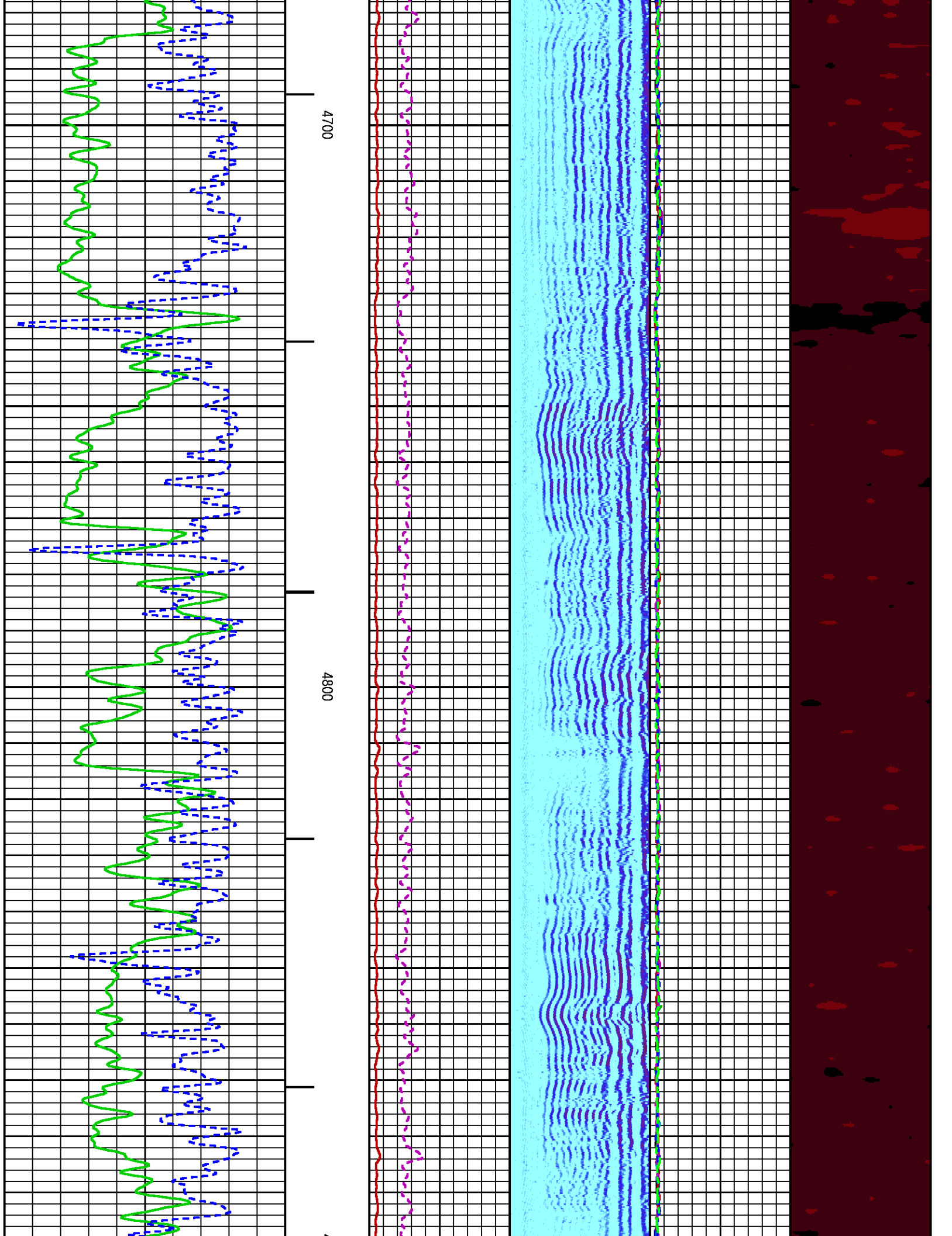


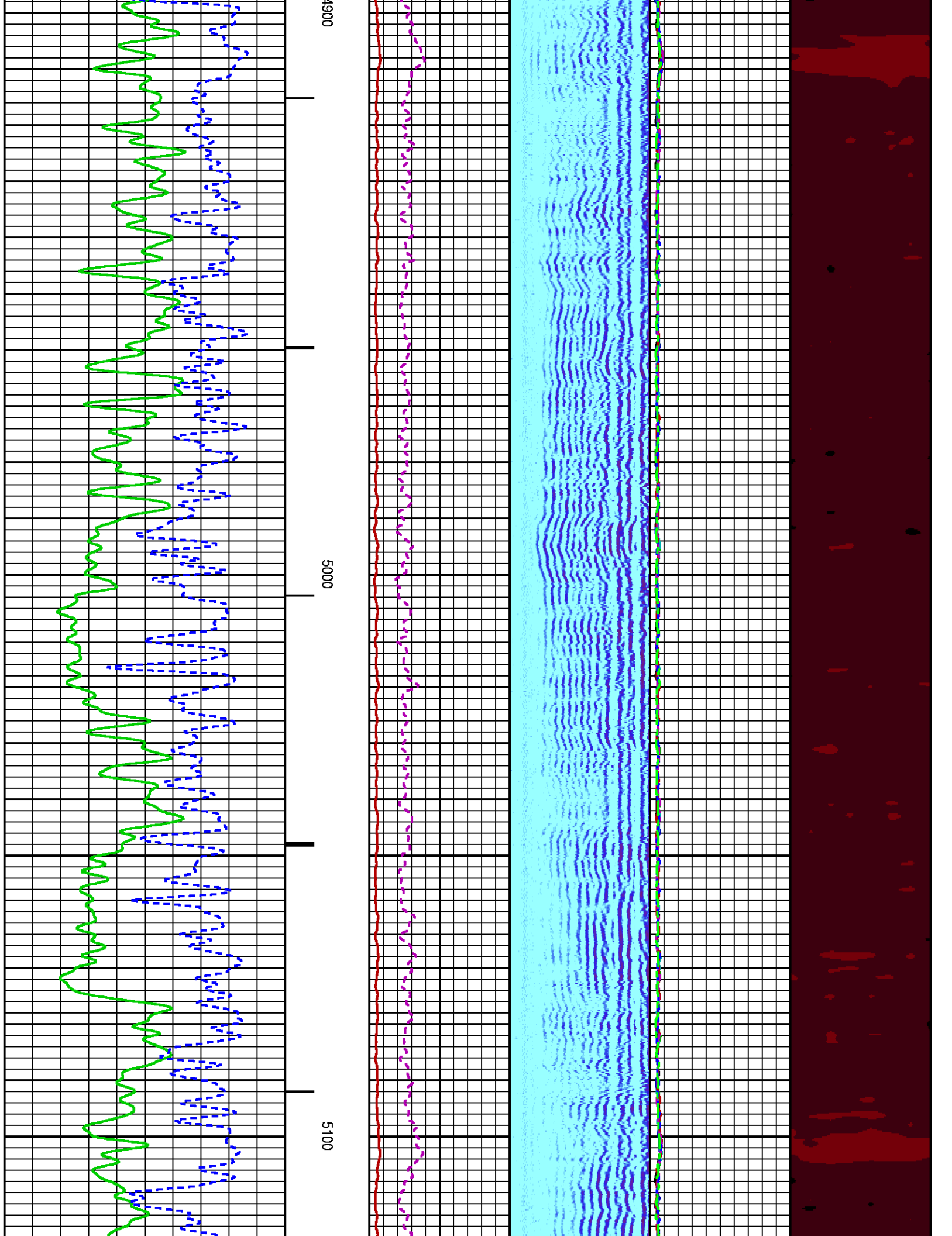


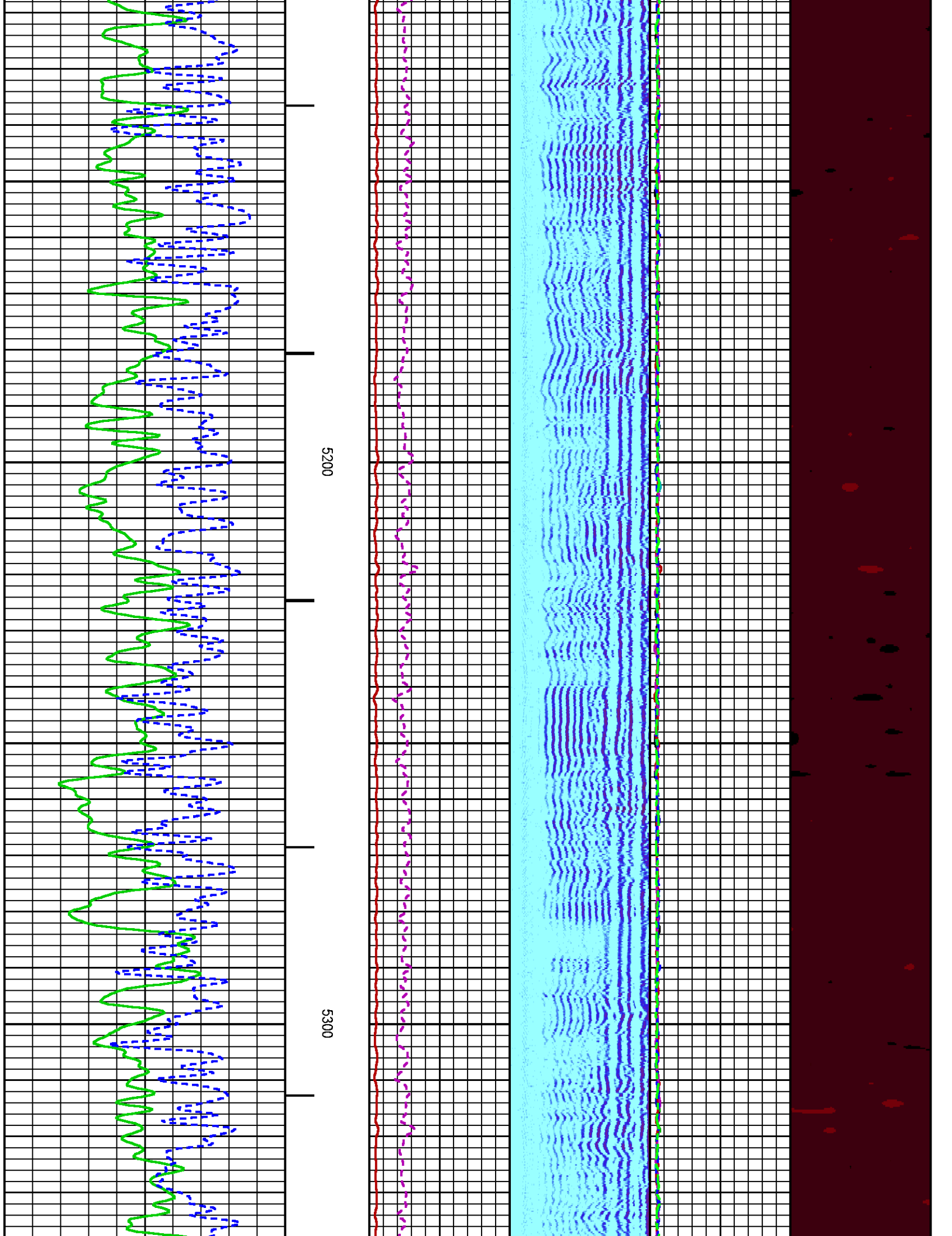


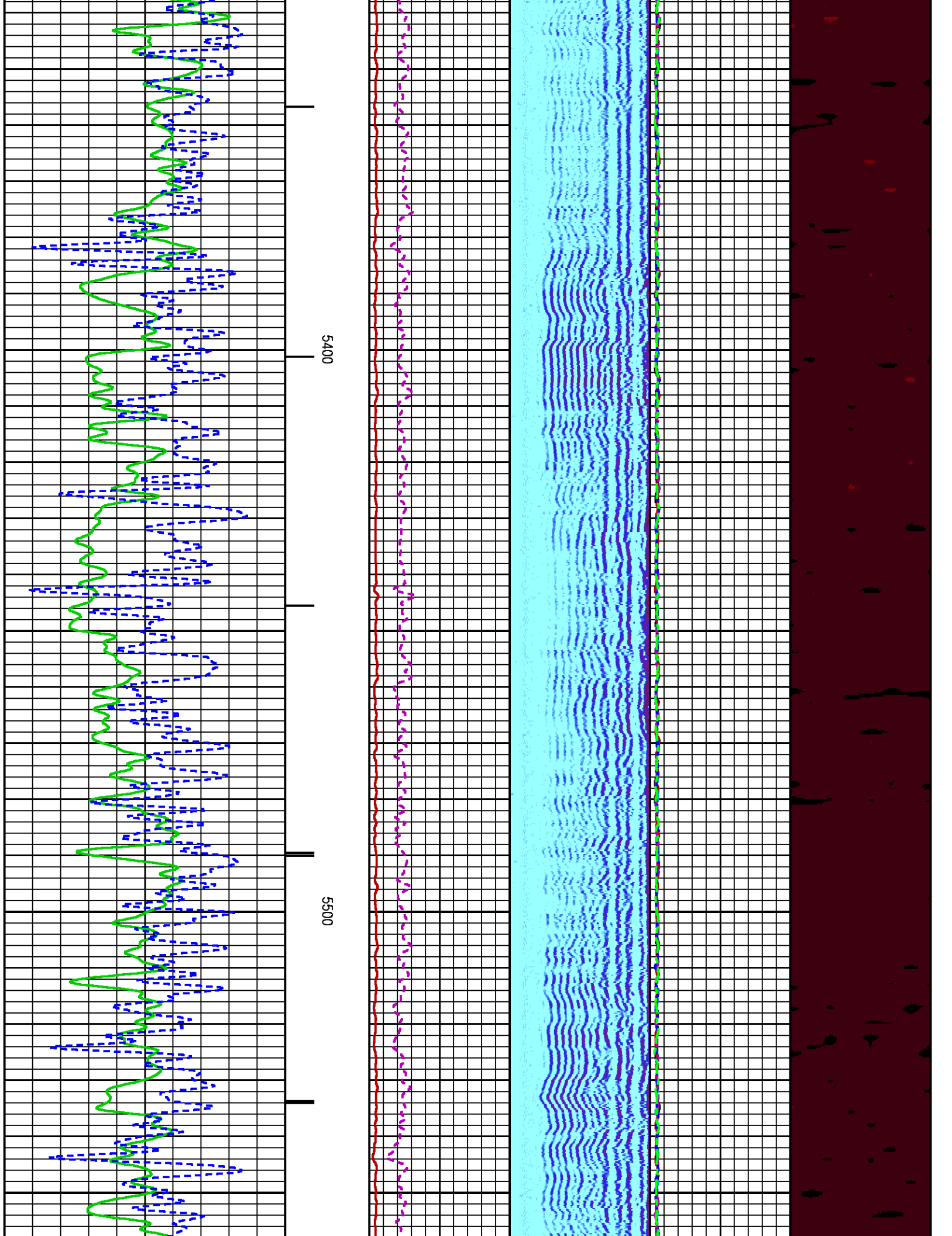


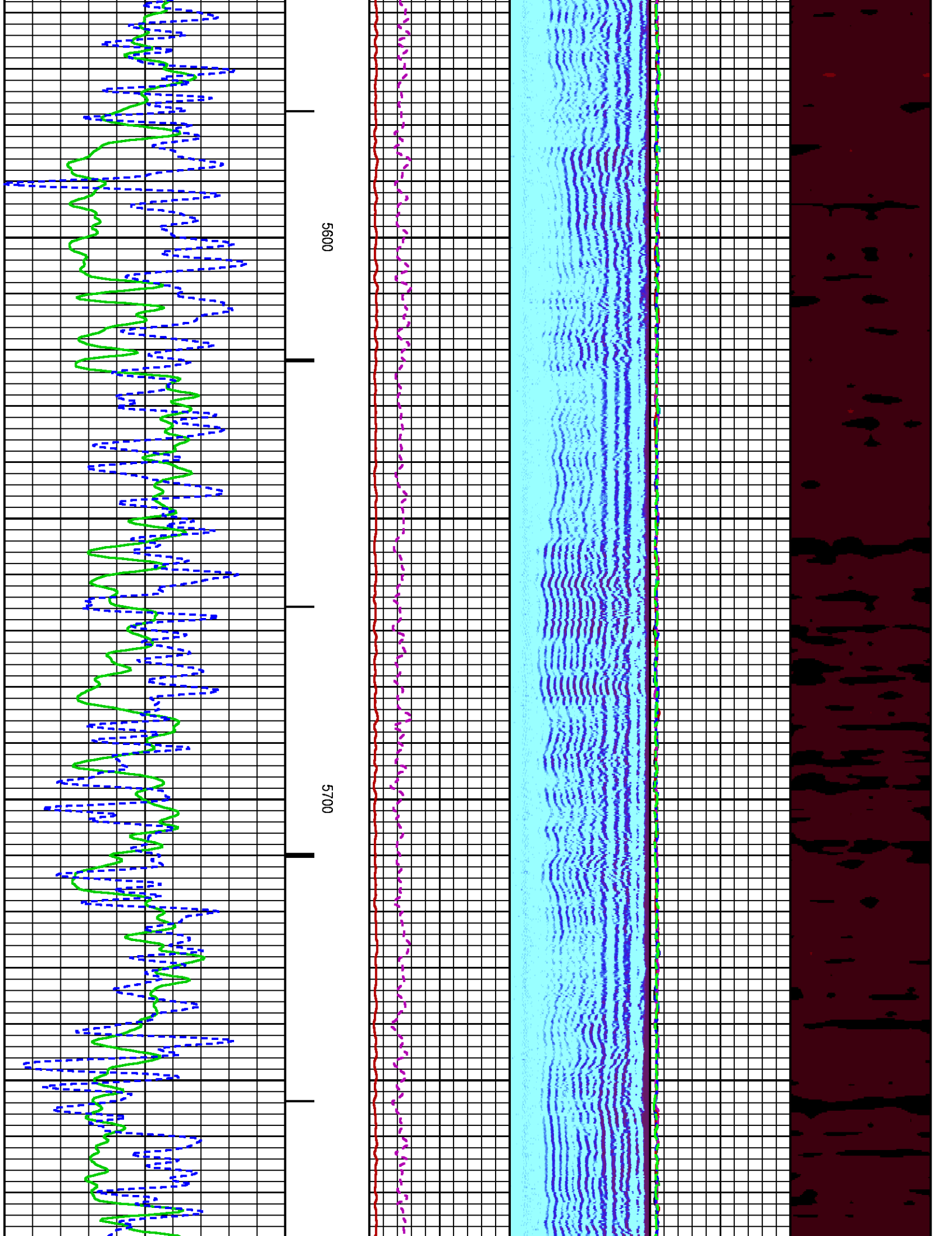


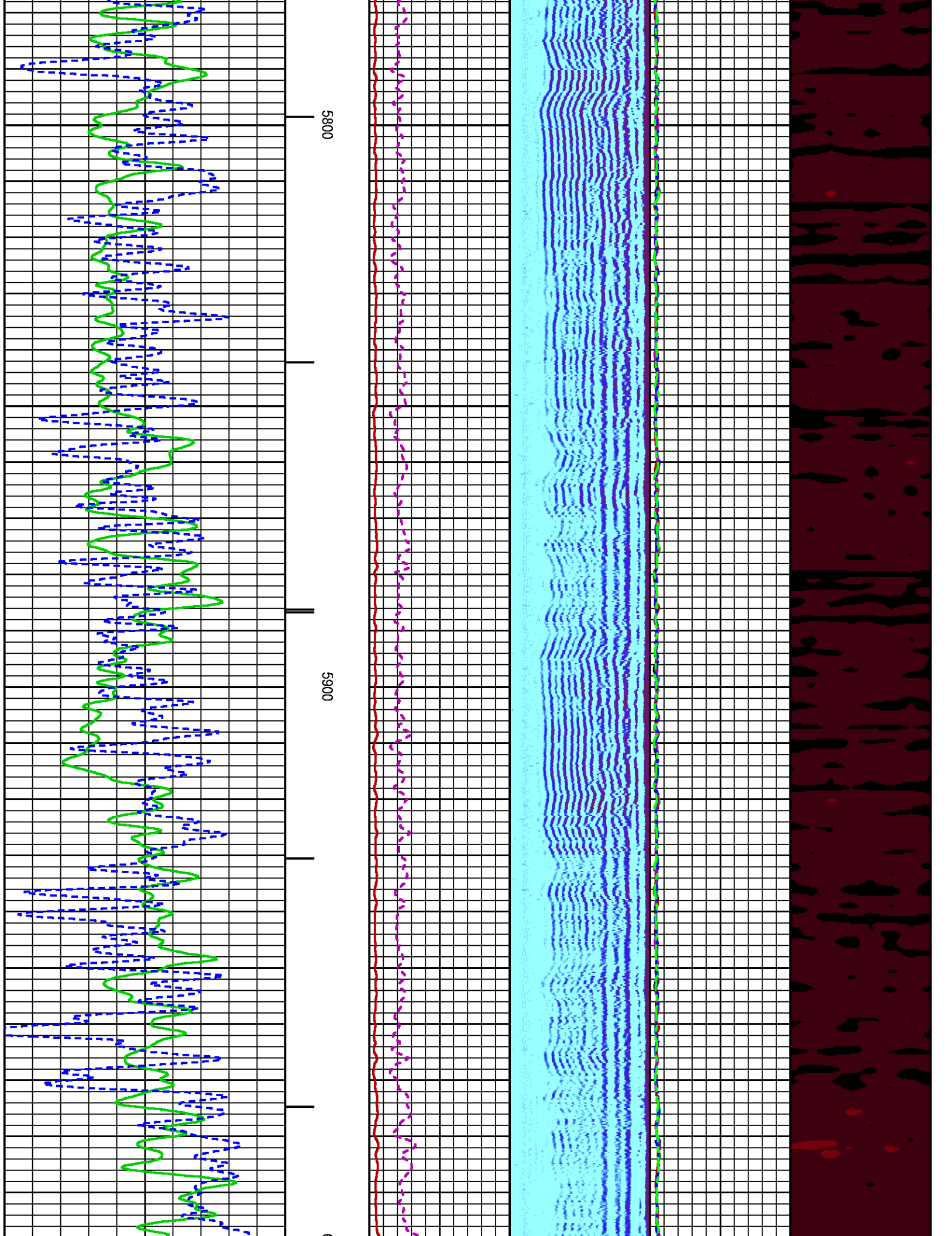


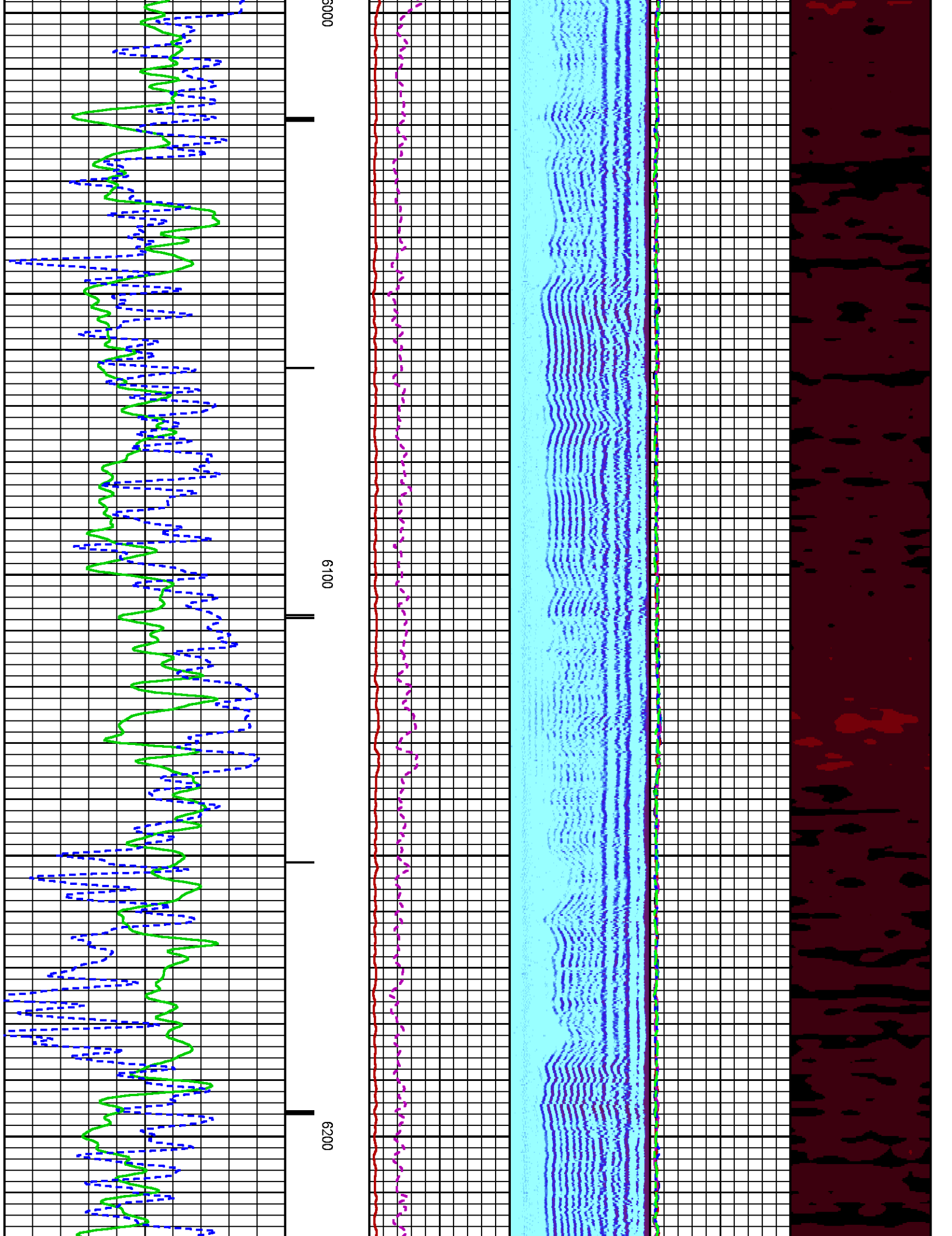


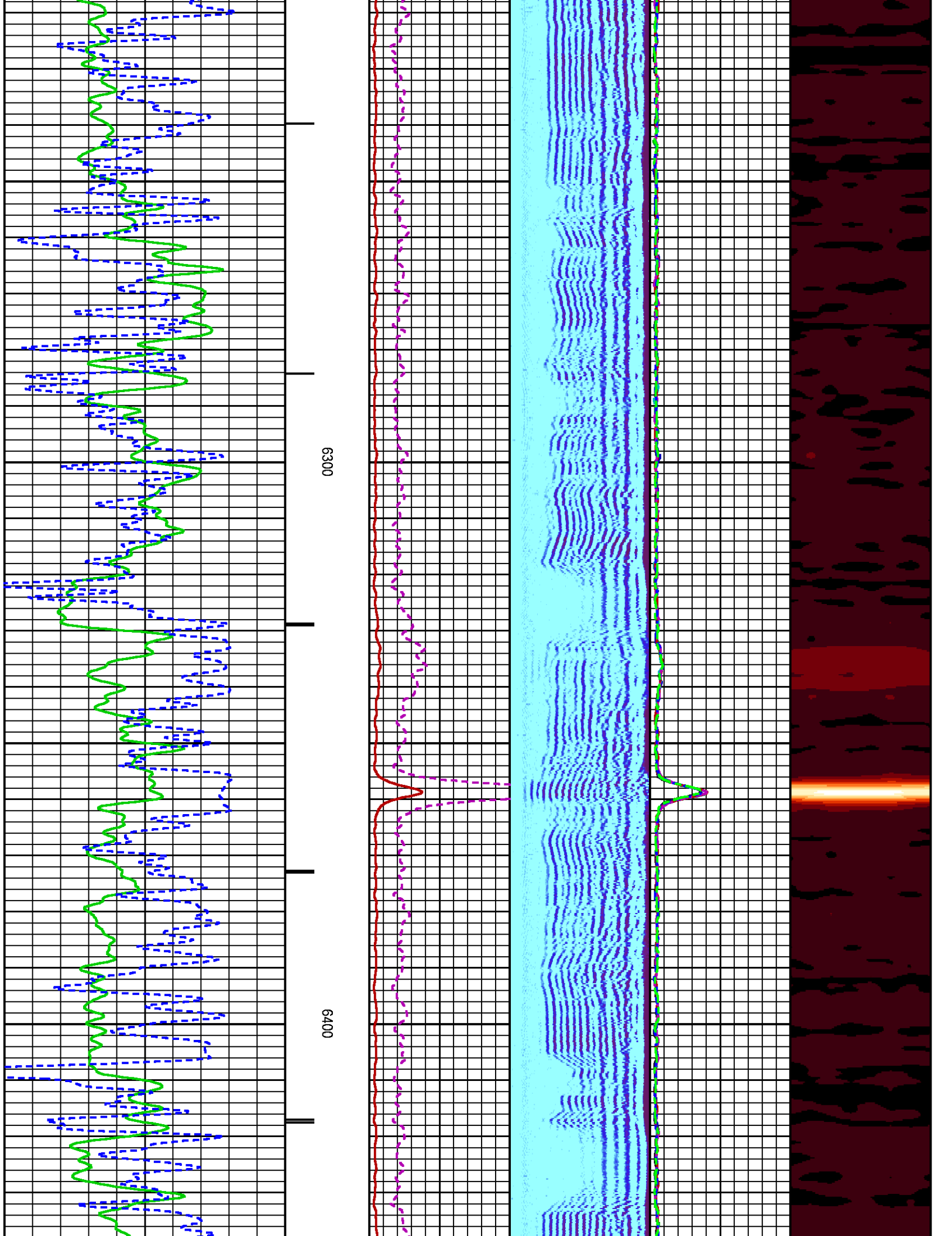


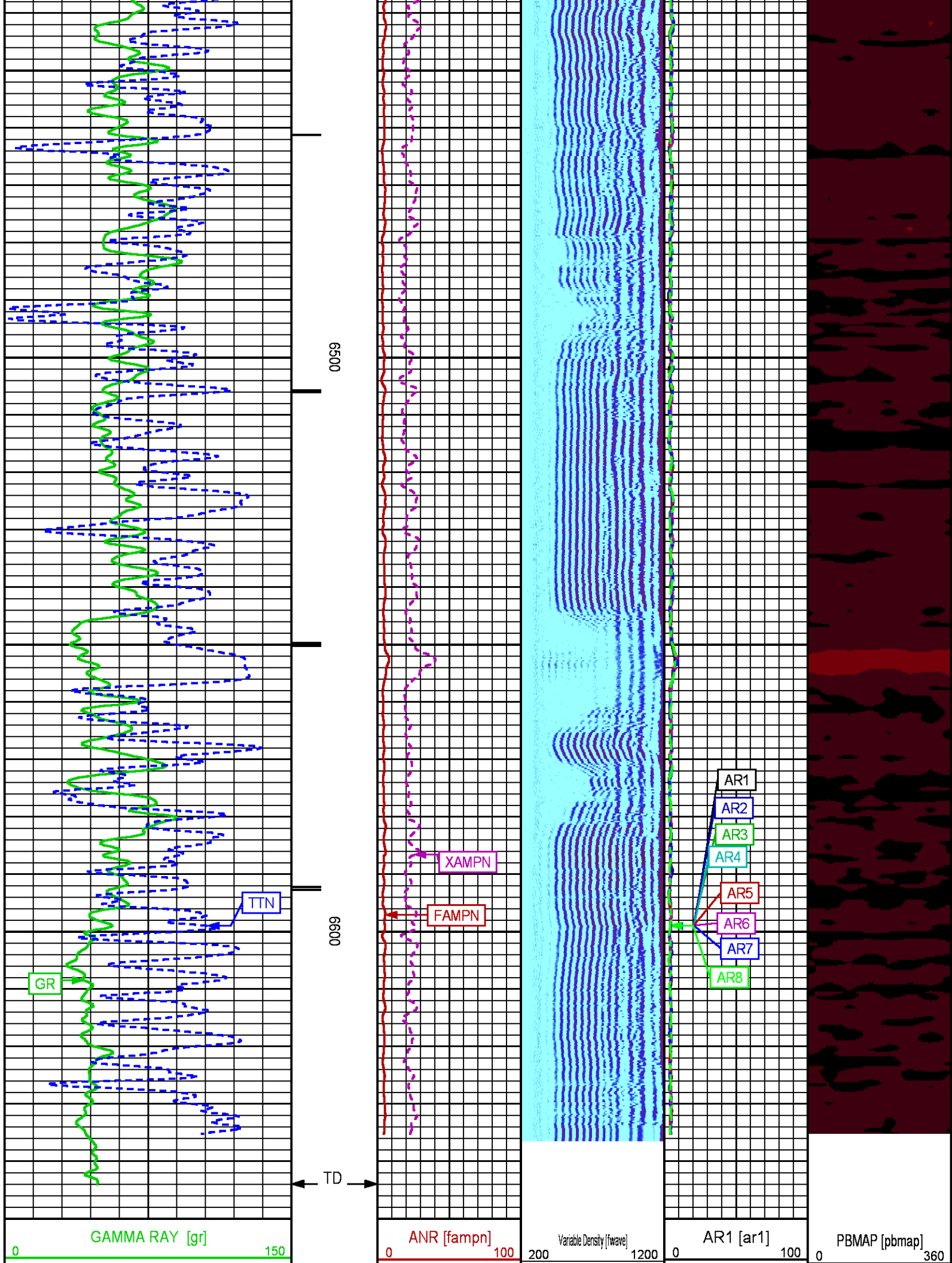


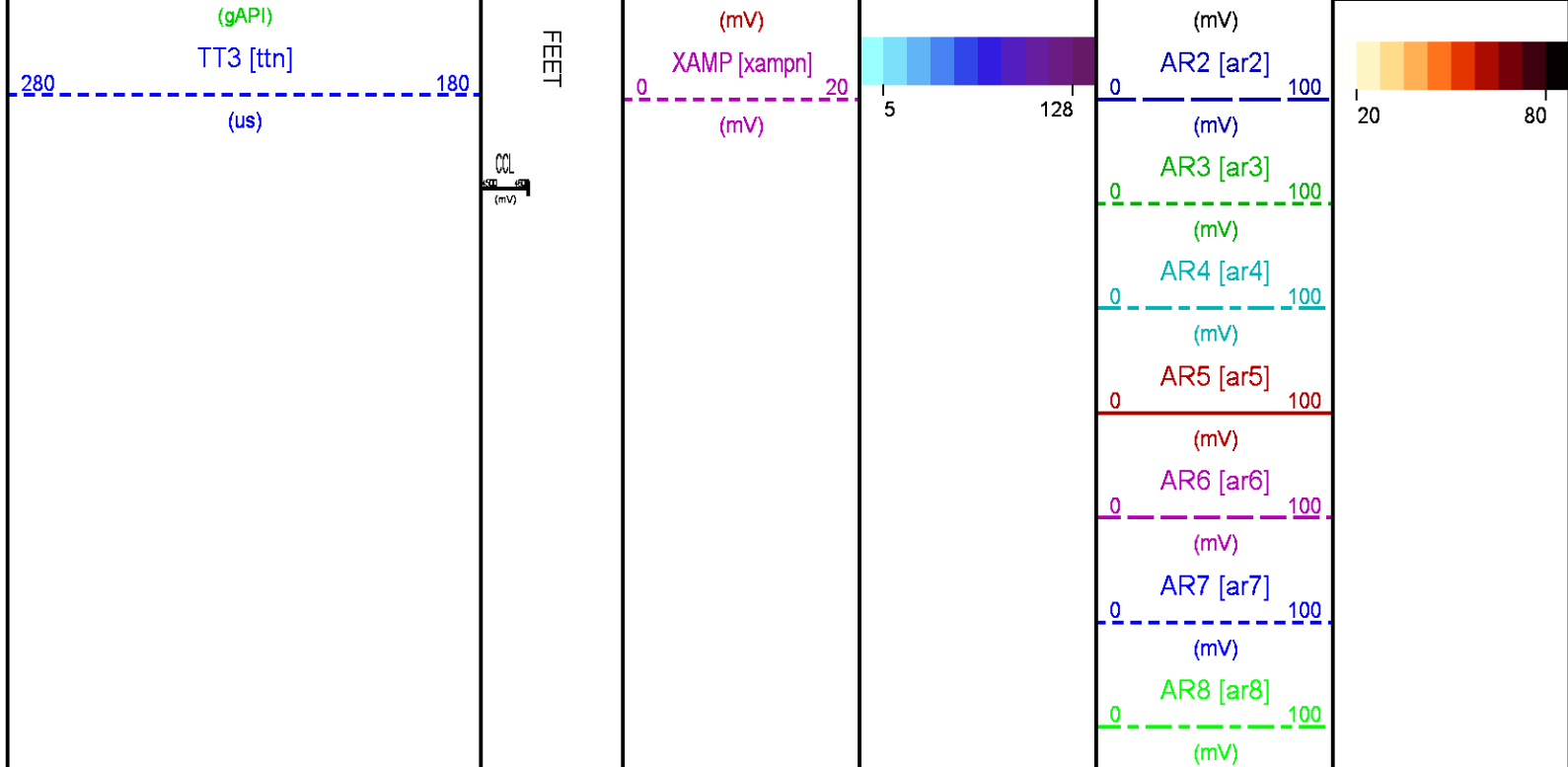












REPEAT LOG 0 PSI

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014

Plotted: Mon Dec 29 20:24:17 2014

PARAMETER AND FILTER SUMMARY REPORT					
FILE: D:\WELLDATA\WPX\GM 332-12\012g01.prm LOGGING MODE: DEPTH DIRECTION: UP TOP DEPTH: 6271.750 ft BOTTOM DEPTH: 6645.000 ft					
SYMMETRIC FILTER					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM
AMPLITUDE	FILTER ()	medium (1)		"	"
TRAVEL TIME	FILTER ()	medium (1)		"	"
RAL CCL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
CCL FLOOR	CCL FLOOR	0		TOP	BOTTOM
ANALOG RAL PROCESSING					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgpn*)	187	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	175	us	"	"
	TT WINDOW LENGTH	500	us	"	"
	FIRST BRK THRESHOLD (ttn*)	4	mV	"	"
RAL CASING PARAMETERS	PPT NEAR	200.391	us	"	"
RAL TOOL DELAY	TOOL DELAY (strn*)	-66	us	"	"

BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

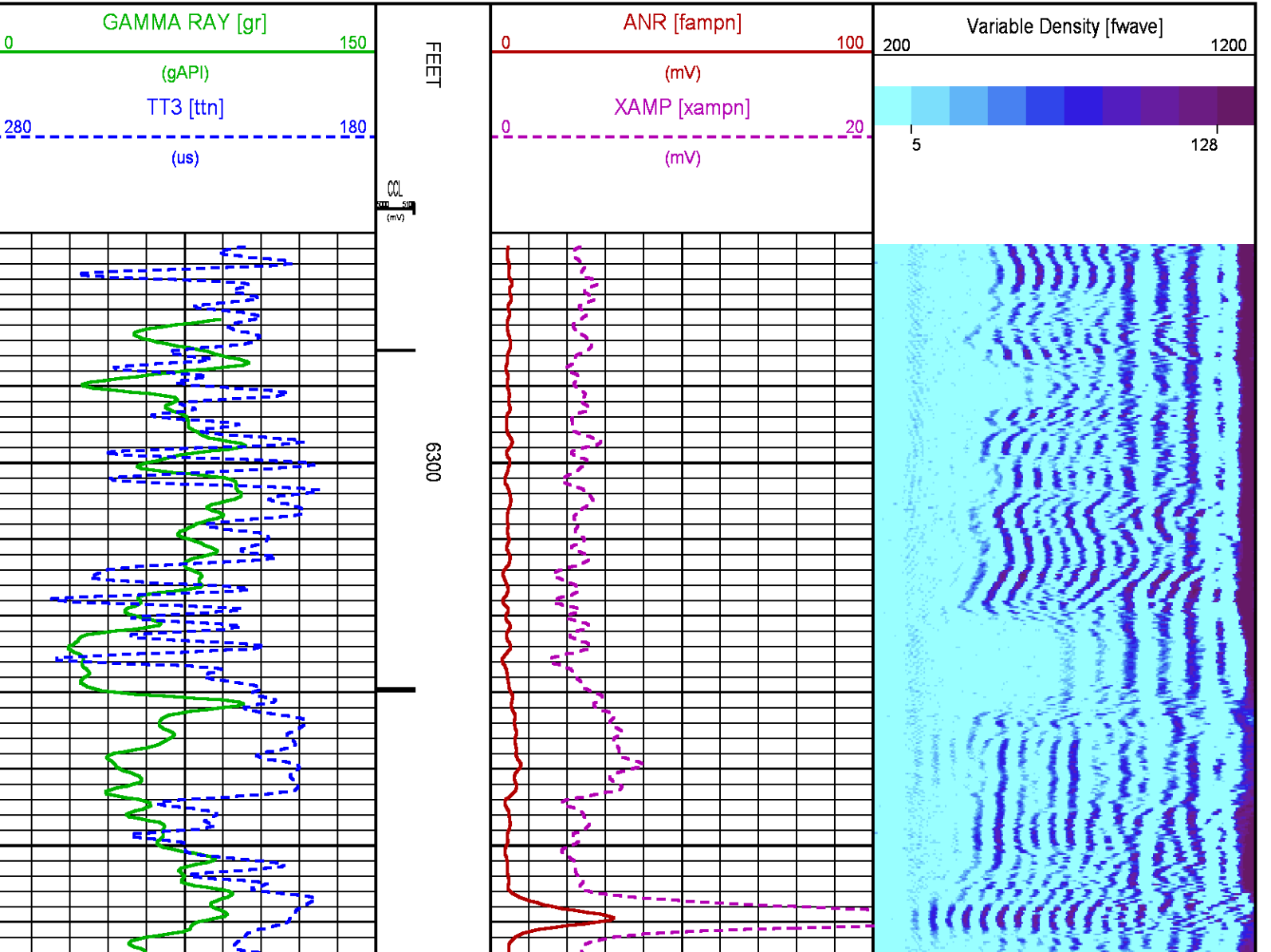
CURVE DESCRIPTION REPORT

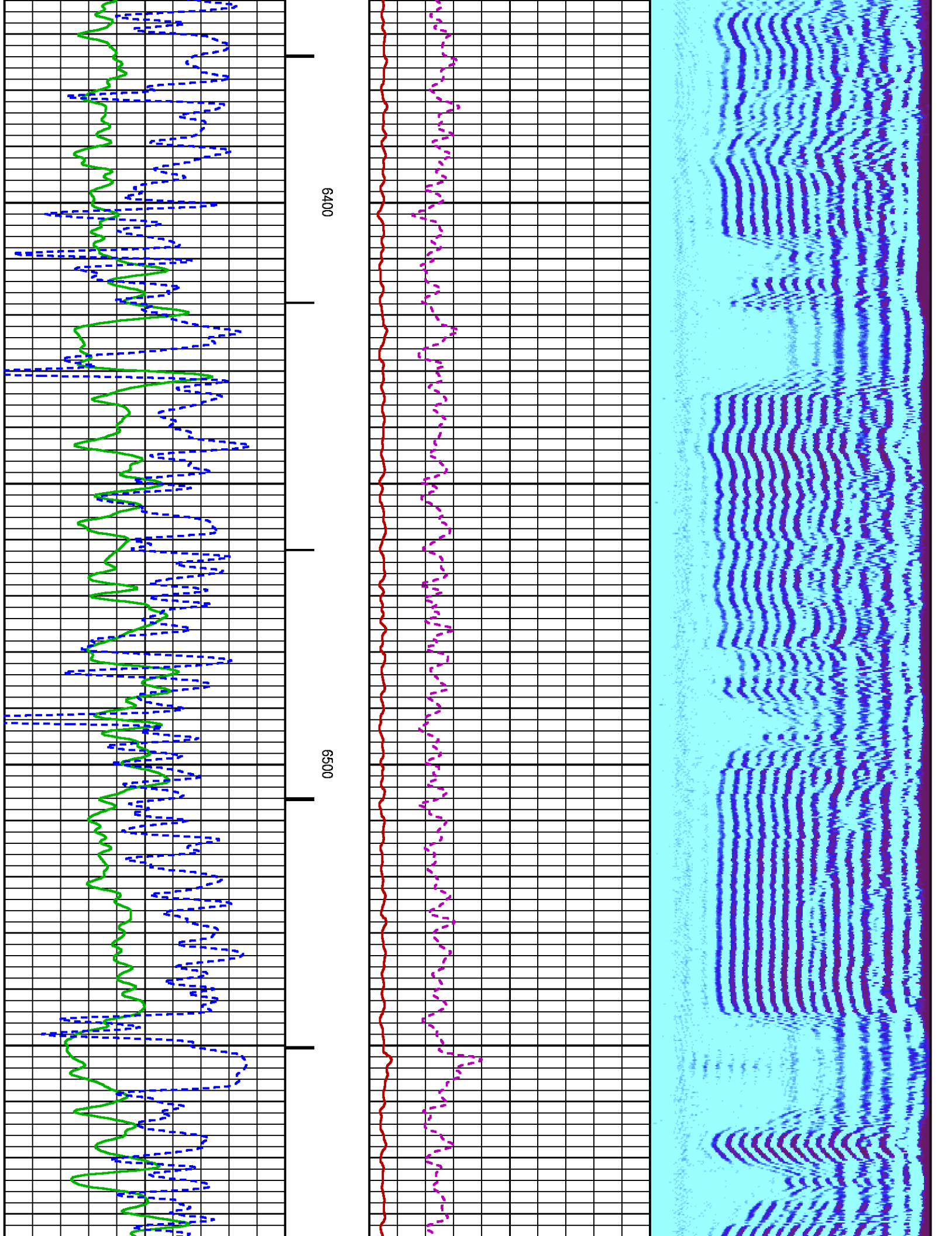
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Dec 29 09:31:11 2014	CASING COLLAR LOCATOR
F1:FAMPN	Dec 29 09:31:11 2014	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Dec 29 09:31:11 2014	FAR WAVE FORM
F1:GR	Dec 29 09:31:11 2014	GAMMA RAY
F1:TTN	Dec 29 09:31:11 2014	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Dec 29 09:31:11 2014	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

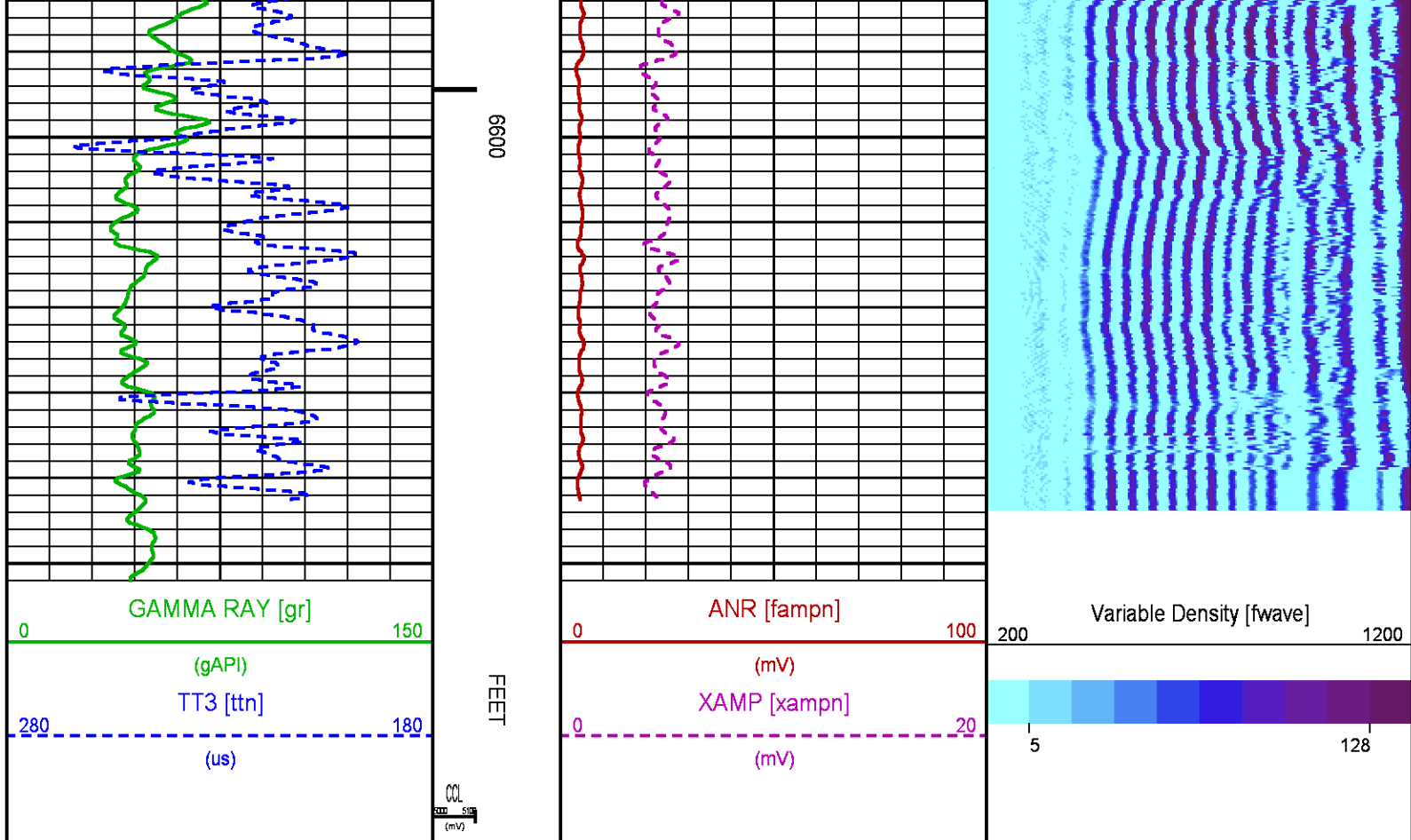
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	5.75	GR	1.75	XAMPN	11.25		
FAMPN	11.25	TTN	11.25				

Presentation	: BHI9G15WM1:D:\WELLDATA\WPX\IGM 332-12\332CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 6271.5 - 6653.5 Feet
Data File 1	: F1 : BHI9G15WM1:D:\WELLDATA\WPX\IGM 332-12\332_CBL_REPEAT.xtf
Created On	: Dec 29 09:31:11 2014
Company	: WPX ENERGY
Well	: GM 332-12
Field	: GRAND VALLEY
File Interval	: 6270.5 - 6655 Feet
OCT	: n012g







CALIBRATION / VERIFICATION SUMMARY

Source File: D:\WELLDATA\WPX\GM 332-12\012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10218495

DATE/TIME PERFORMED: Sun Dec 28 08:35:03 2014

UNIT #: 3885TD Z004271

	NEAR (mV)	RADIAL (mV)	FAR (mV)
TARGETS	100.00	100.00	150.00

	NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
ZERO (mV)	0.07	-0.03	0.34	0.00	0.31	0.02	0.18	0.11	0.15	1.79	0.03
AMP FLUID (mV)	86	84	85	84	85	85	86	86	85	113	84
TT (us)	213	214	213	212	211	211	211	212	214	322	214
M FACTOR	1.16	1.18	1.19	1.19	1.18	1.18	1.17	1.17	1.18	1.35	1.20

RAL BEFORE LOG VERIFICATION SUMMARY

NOT IN DATABASE

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 10580209

DATE/TIME PERFORMED: Fri Dec 12 13:50:38 2014

UNIT #: 3885TD Z004271

CALB JIG #: 4702NK WA612

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	158.53	746.53	588.0	0.315	49.88	234.88	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 10580209

DATE/TIME PERFORMED: Fri Dec 12 13:55:38 2014

UNIT #: 3885TD Z004271

VERI JIG #: 4702NK WA612

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	164.98	742.44	0.315	51.91	233.59	181.69
						175.00 195.00

TEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 10580209

DATE/TIME PERFORMED: Fri Dec 12 13:58:01 2014

UNIT #: 3885TD Z004271

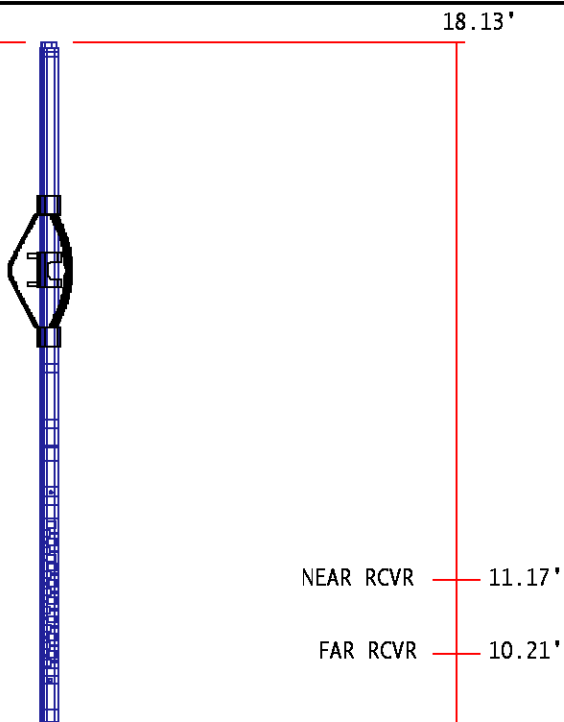
	T(0)	T(1)	T(2)	T(3)
Corr Coeff for Temp	0.000000E+00	1.000000E-01	0.000000E+00	0.000000E+00

INSTRUMENT CONFIGURATION

Source File: D:\WELLDATA\WPX\IGM 332-12\CBL-tdg.meta

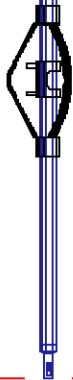
RADIAL BOND TOOL

Diameter : 2.75"
Length : 11.17'
Weight : 126 lbs
Series : 1426XA
Mnemonic : RAL
Measure Point: 4.21': NEAR RCVR
Measure Point: 3.25': FAR RCVR



RAL GR/TEMP/CCL/CHV DETECTOR

Diameter : 2.75"
 Length : 6.96'
 Weight : 85 lbs
 Series : 1355XA
 Mnemonic : RAL
 Measure Point: 5.79': CCL
 Measure Point: 1.67': GR
 Measure Point: 0.17': TEMP




CCL 5.79'

GR 1.67'

TEMP 0.17'

TOTAL LENGTH: 18.13'
 TOTAL WEIGHT: 225 lbs
 MAX DIAMETER: 0'4.00"

	COMPANY <u>WPX ENERGY</u>		FILE NO:
	WELL <u>GM 332-12</u>		<u>CH093575</u>
	FIELD <u>GRAND VALLEY</u>		API NO:
COUNTY <u>GARFIELD</u>		STATE <u>COLORADO</u>	<u>05045224670000</u>
LOCATION: SHL: 1189' FNL & 1905' FWL BHL: 2530' FNL & 2208' FEL (SWNE)		ELEVATIONS: KB 5151 FT DF GL 5125 FT	12 7S 96W GM 21-12 PAD NABORS 573
SEC <u>12</u> TWP <u>7S</u> RGE <u>96W</u>		DATE <u>29-Dec-2014</u>	