



FILE NO: _____ COMPANY **TEP ROCKY MOUNTAIN LLC**

API NO: _____ WELL **YOUBERG RU 612-7**

05045231280000 FIELD **RULISON**

Ver. 4.06 LOCATION: _____ STATE _____

SHL: 2001' FNL & 1897' FWL OTHER SERVICES **RPM**

BHL: 1120' FNL & 203'

SEC 7 TWP 7S RGE 93W

PERMANENT DATUM GL ELEVATION 7339 FT

LOG MEASURED FROM KB 24 FT ABOVE P.D.

DRILL. MEAS. FROM KB

ELEVATIONS: KB 7363 FT

DF 7339 FT

GL 7339 FT

DATE 28-SEP-2016

RUN 1 TRIP 1

SERVICE ORDER US109466

DEPTH DRILLER 9707 FT

DEPTH LOGGER 9665 FT

BOTTOM LOGGED INTERVAL 9663 FT

TOP LOGGED INTERVAL 24 FT

TIME STARTED 11:00

TIME FINISHED 14:00

OPERATOR RIG TIME 3 HRS

TYPE OF FLUID IN HOLE WATER

FLUID DENSITY NA

FLUID SALINITY NA

FLUID LEVEL 55 FT

LOGGED CEMENT TOP SEE LOG

WELLHEAD PRESSURE 0 PSI

MAXIMUM HOLE DEVIATION NA

NOMINAL LOGGING SPEED 100 F/MN

MAX. RECORDED TEMP. 245 DEGF

REFERENCE LOG NA

REFERENCE LOG DATE NA

EQUIP. NO. LOCATION HL-6670 WOODWARD

RECORDED BY M.MENTZER

WITNESSED BY MR. KYLE KOHL

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE THE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD

BIT SIZE	FROM	TO
13.5 IN	0 FT	1124 FT
8.75 IN	1124 FT	9709 FT

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
9.625 IN	-	-	0 FT	1124 FT
4.5 IN	11.6 LB/F	-	0 FT	9709 FT

REMARKS

RUN 1 TRIP 1: *2 OPERATIONS IN WELL*
OPERATION 1: RAL/GR/CCL RUN CENTRALIZED

WELL LOGGED WITH 0 PSI ON WELLHEAD

BHT: 245

SHORT JOINT: 5910' - 5931'

CREW: D.HUTCHISON, K.NUTTER, D.BARNARD

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
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RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	RAL	1426 XA	10417452	CENTRALIZED
1	1	GR/CCL	1355 XA	12670181	CENTRALIZED

MAIN LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 9

Plotted: Wed Sep 28 15:58:25 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG_RU_512-7/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: -0.750 ft BOTTOM DEPTH: 9652.000 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*)	183	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	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*)	-75	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	Sep 28 12:04:37 2016	CASING COLLAR LOCATOR
F1:FAMPN	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 28 12:04:37 2016	FAR WAVE FORM
F1:GR	Sep 28 12:04:37 2016	GAMMA RAY
F1:TTN	Sep 28 12:04:37 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

CURVE MEASURE POINT OFFSET

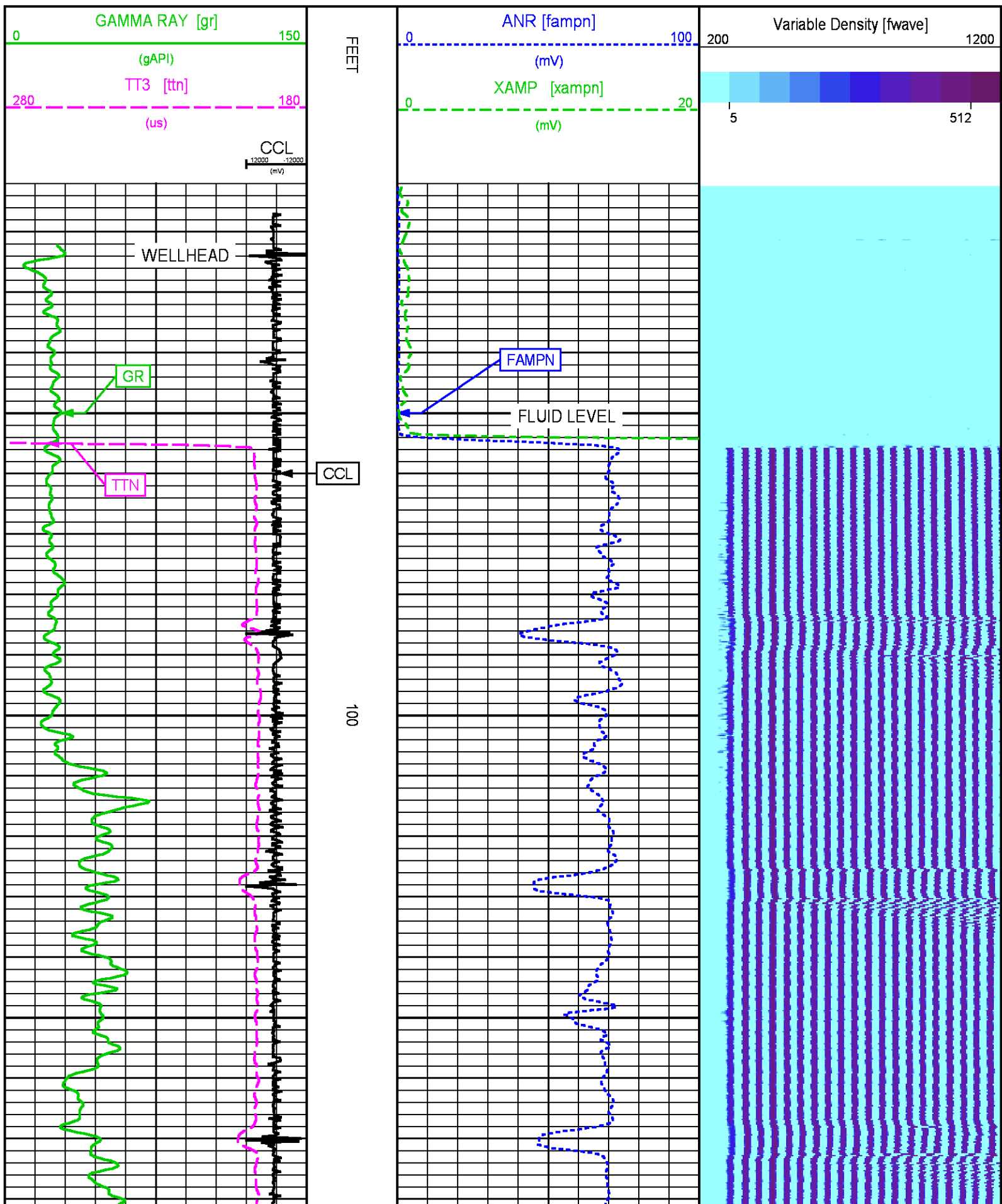
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FAMPN	11.25	TTN	11.25				

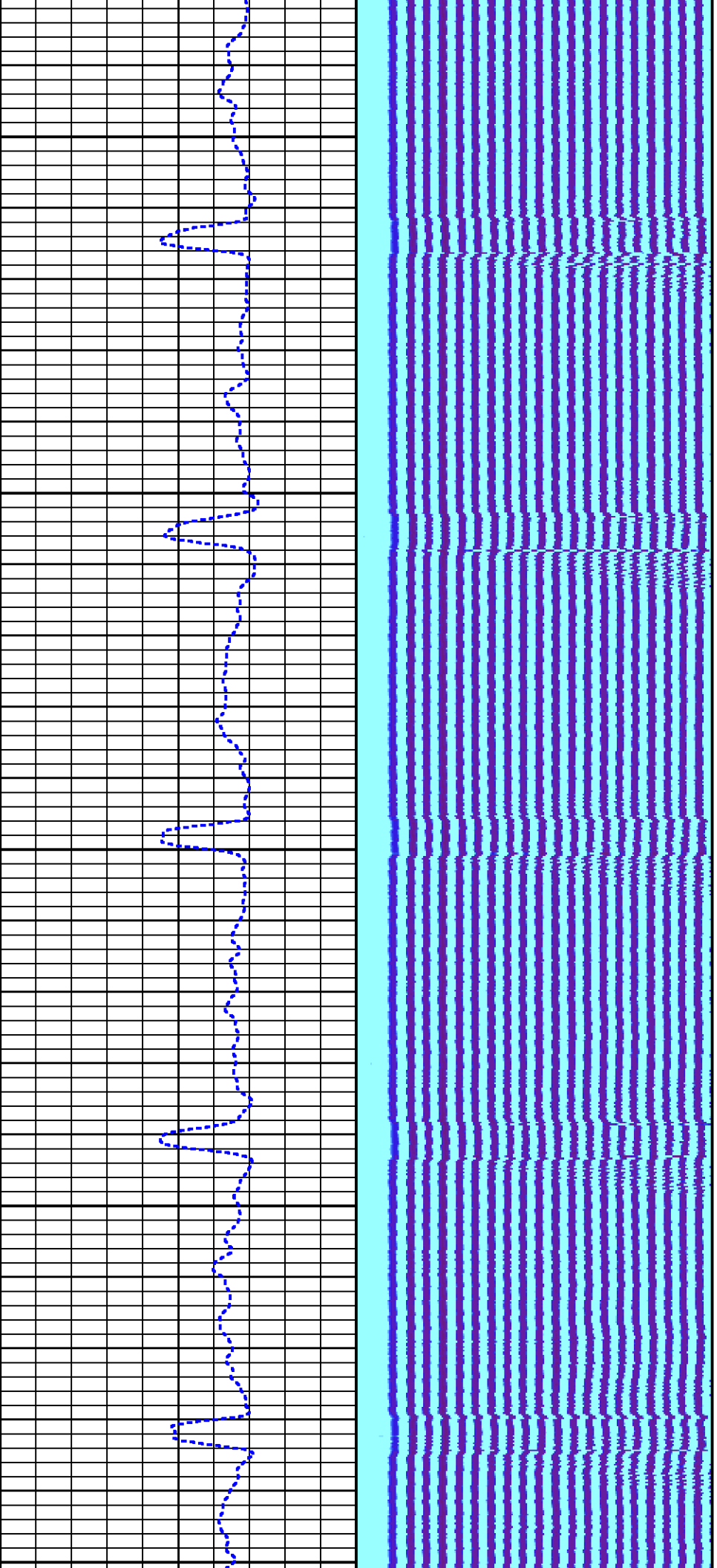
Presentation : cpu100:ral_cbl+01-MAIN-512RAL_MN-5.fvpdf [5"/100' Scale]

Plot Interval : 12.5 - 9674.25 Feet

Data File 1 : F1 : cpu100:/dat1a/TEP_YOUBERG_RU_512-7/512RAL_MN.vtf

Data File : F:\cpu100\data\tep_youberg_ru_512-7512RAL_MIN.xtl
Created On : Sep 28 12:04:37 2016
Company : TEP ROCKY MOUNTAIN LLC
Well : YOUBERG RU 512-7
Field : RULISON
File Interval : 11.5 - 9675.75 Feet
OCT : n012g

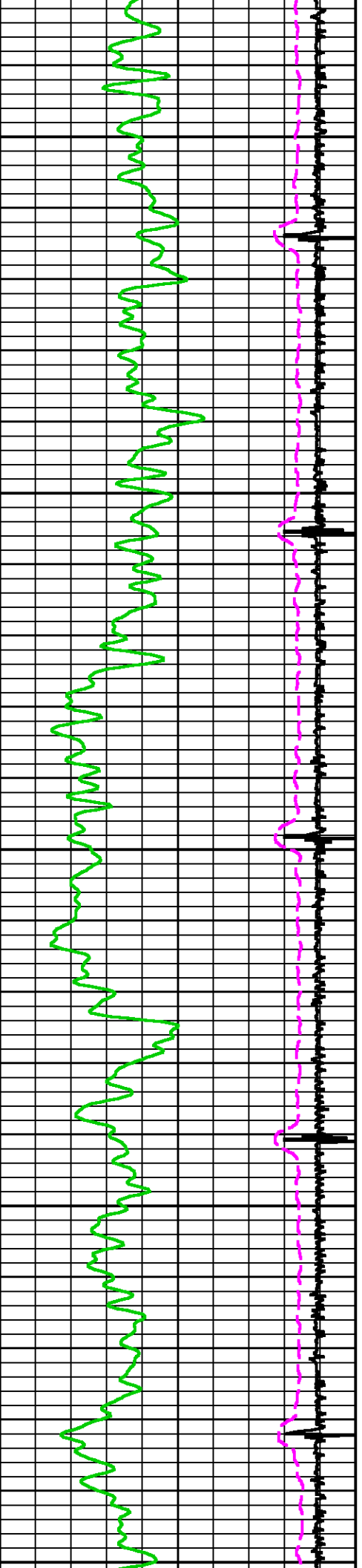


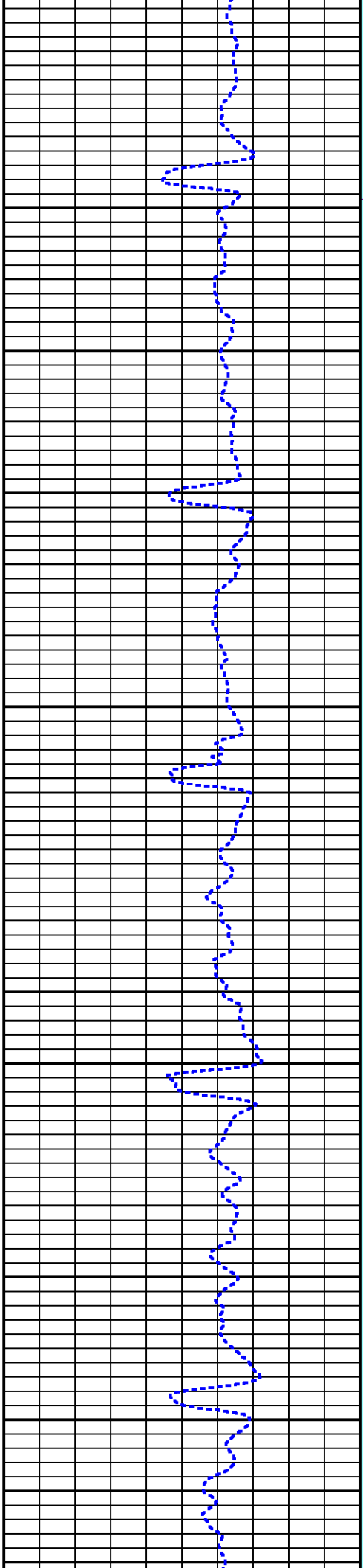
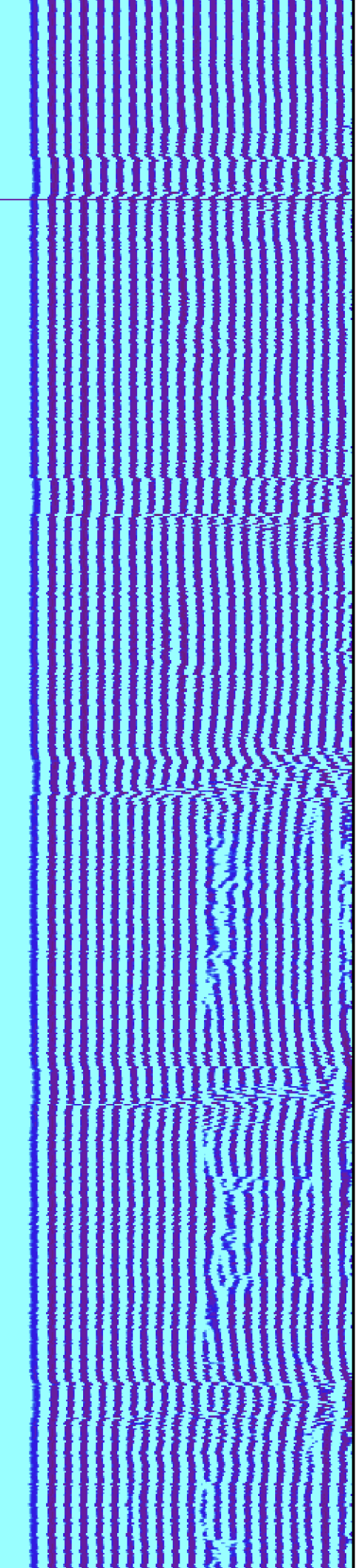


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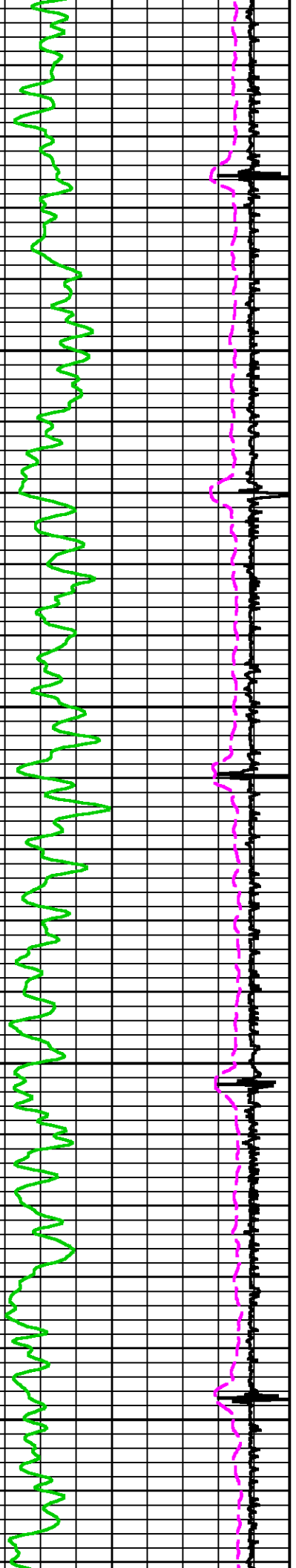
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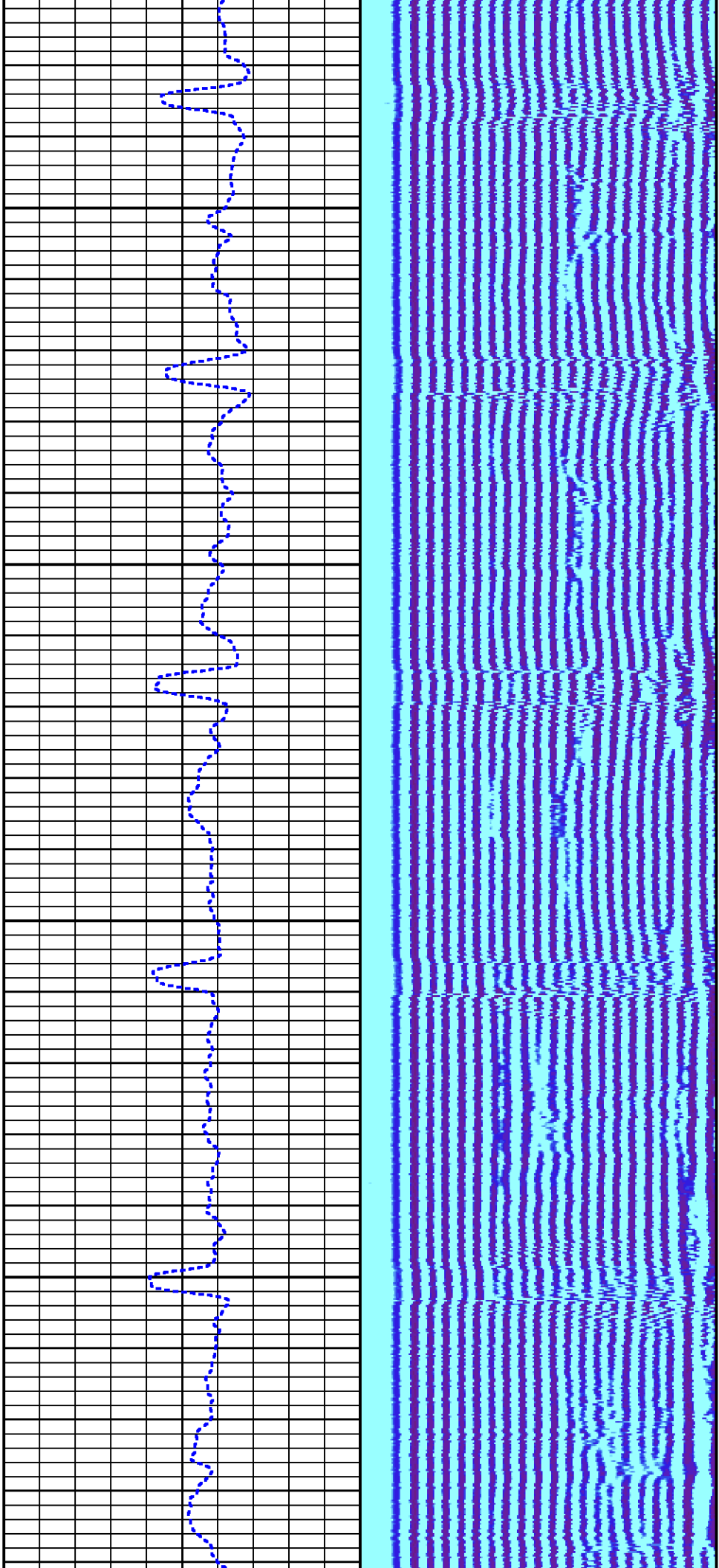




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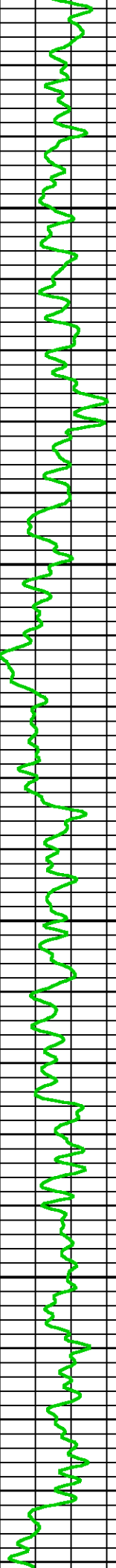
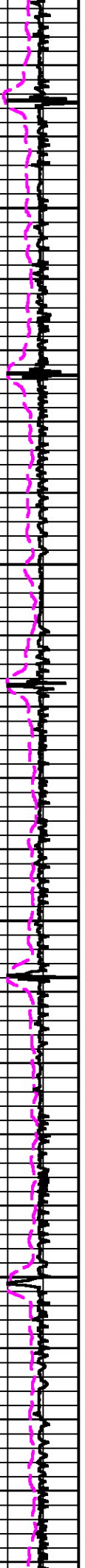
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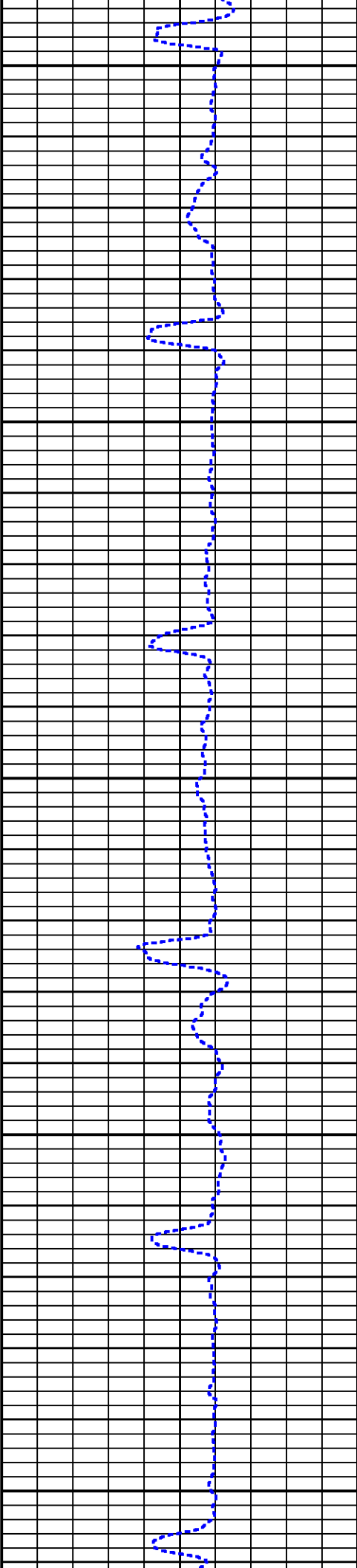
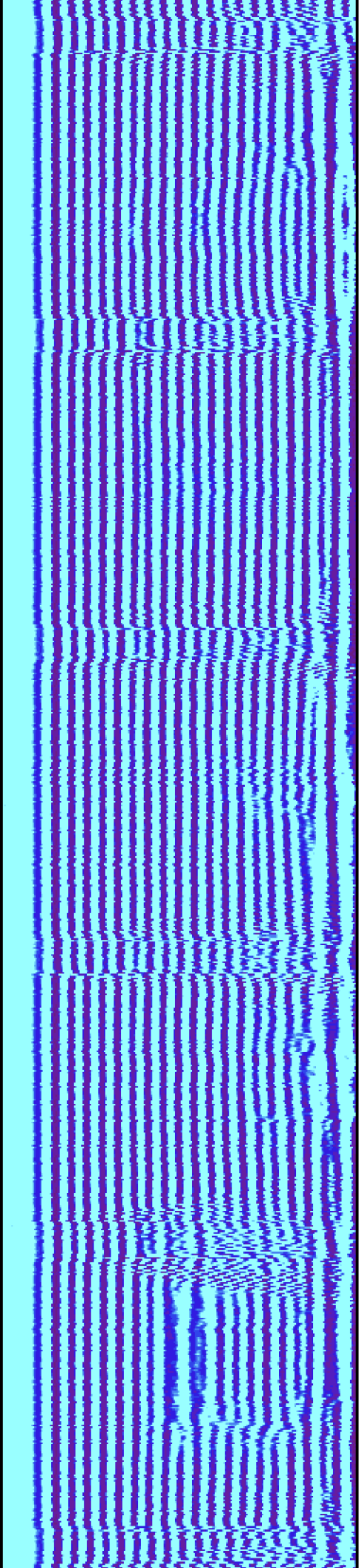




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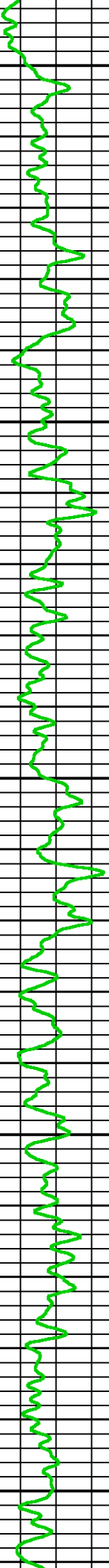
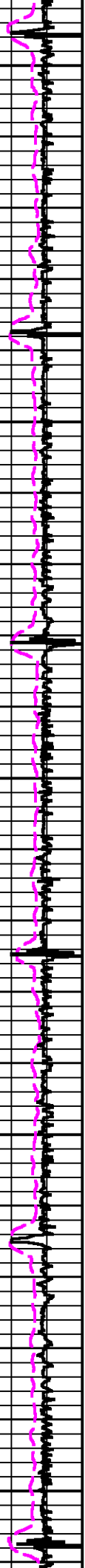
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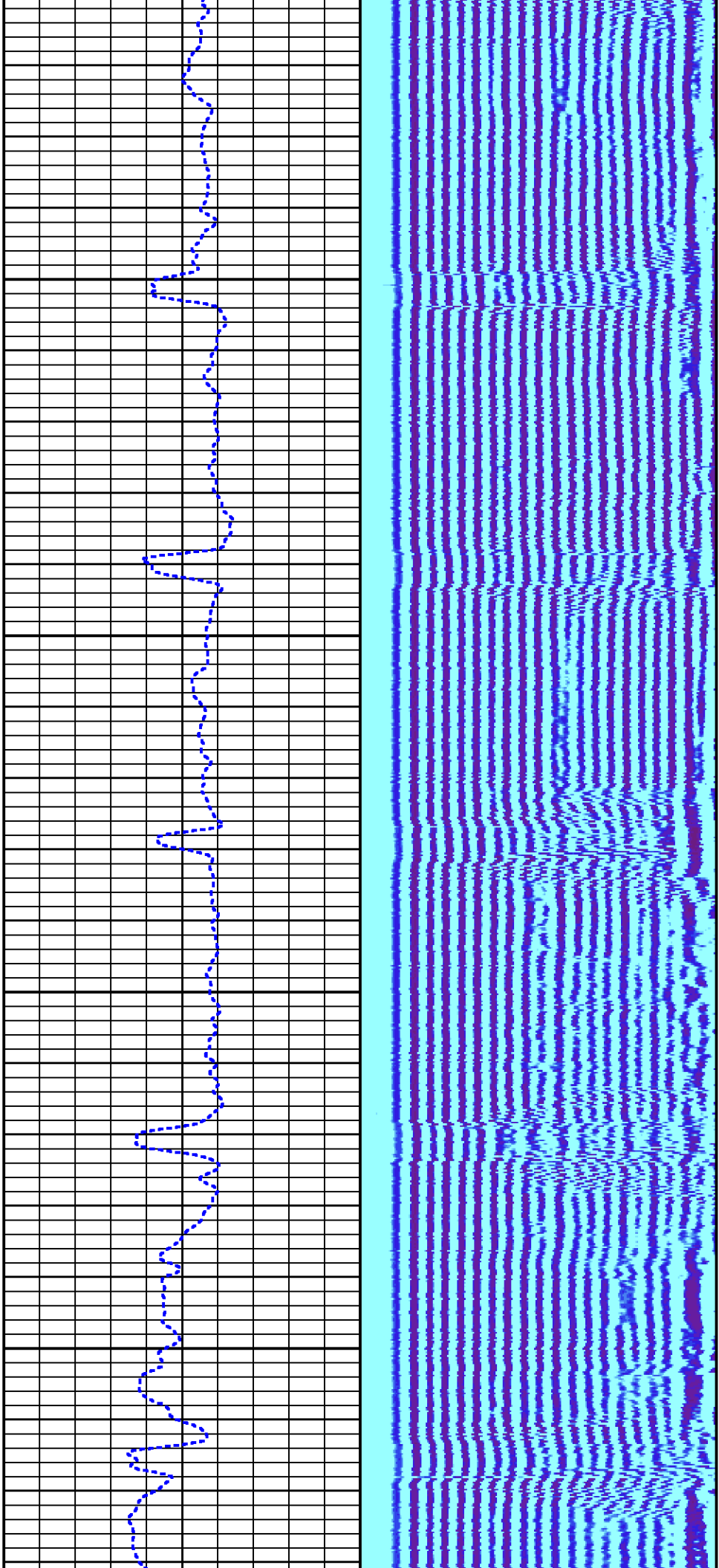




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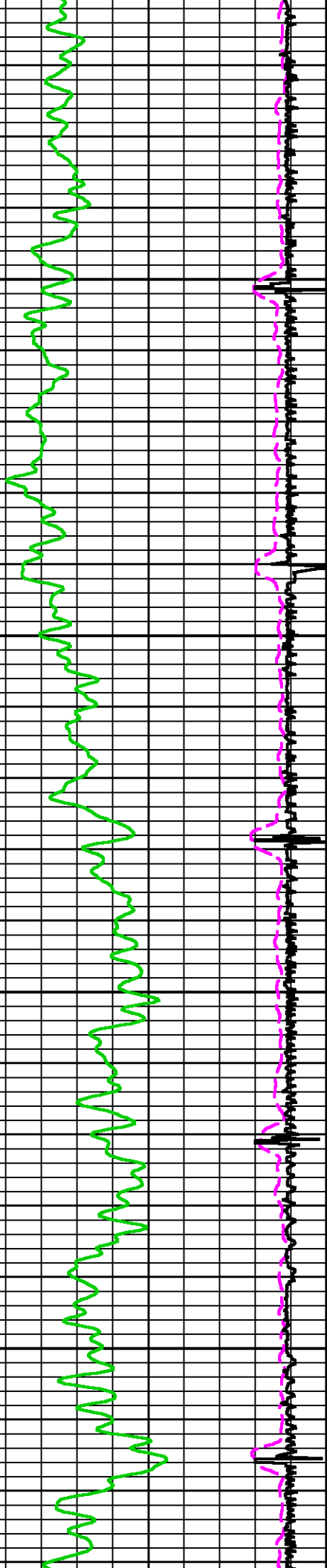
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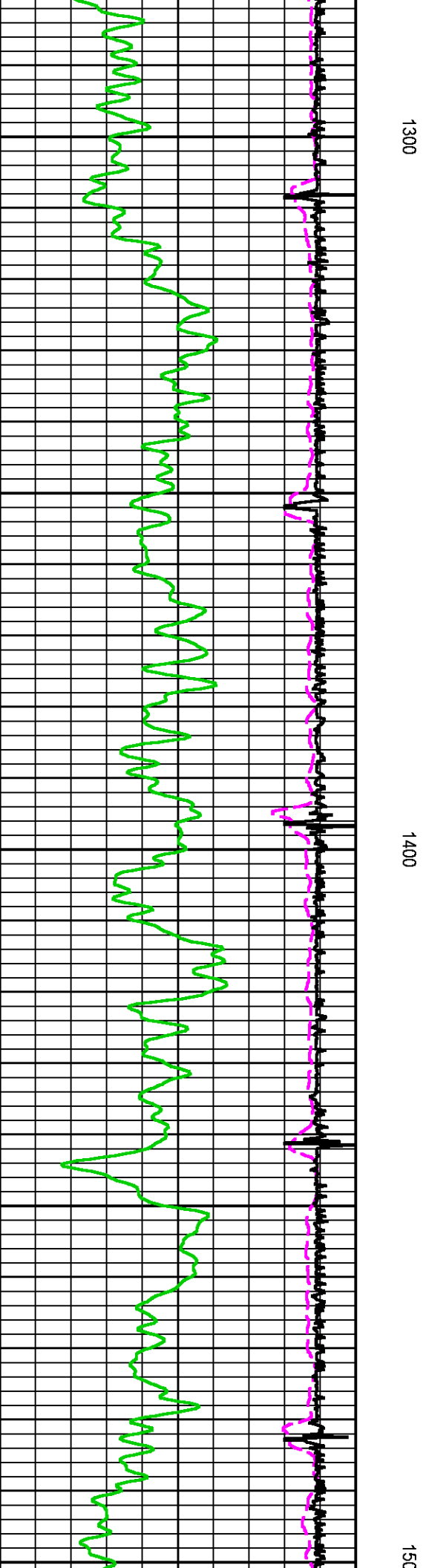
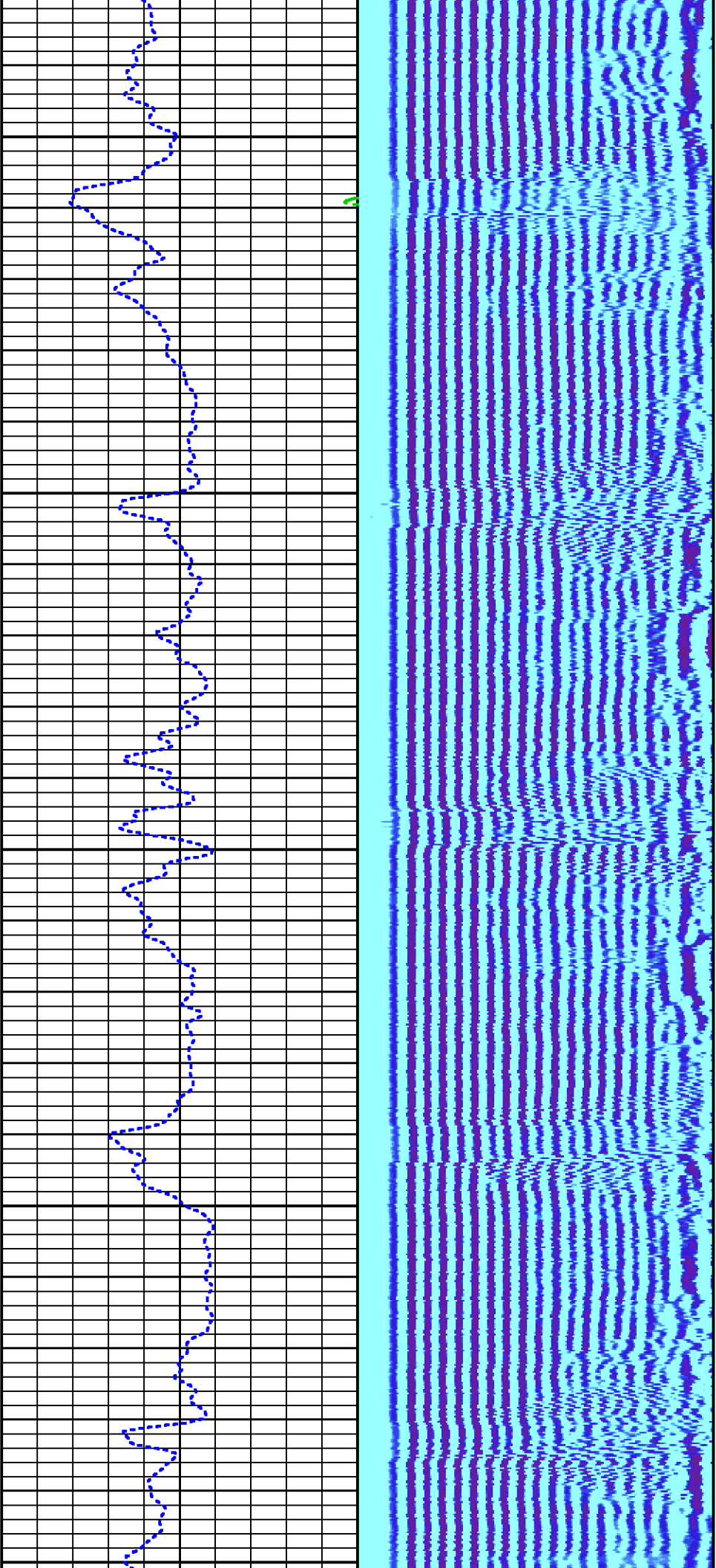


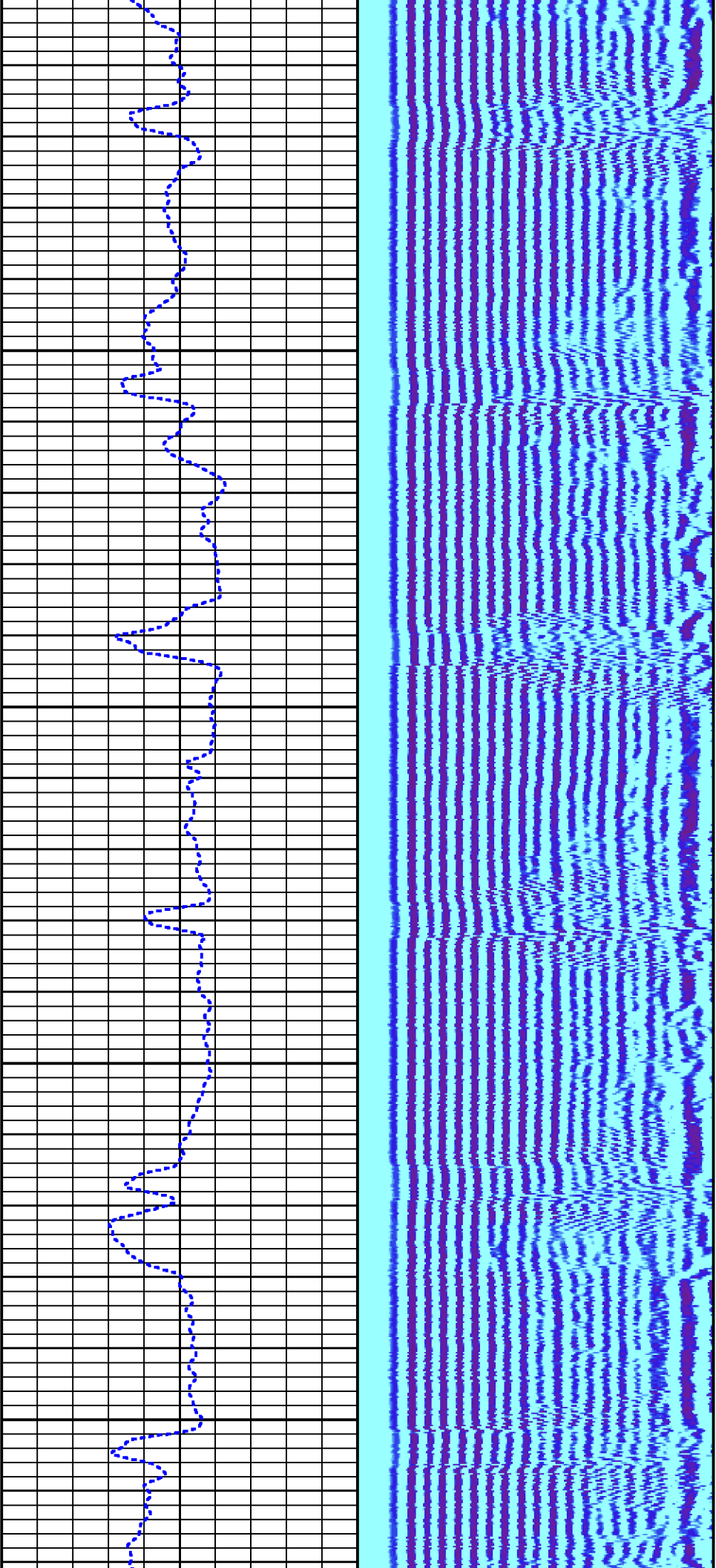


1100

1200



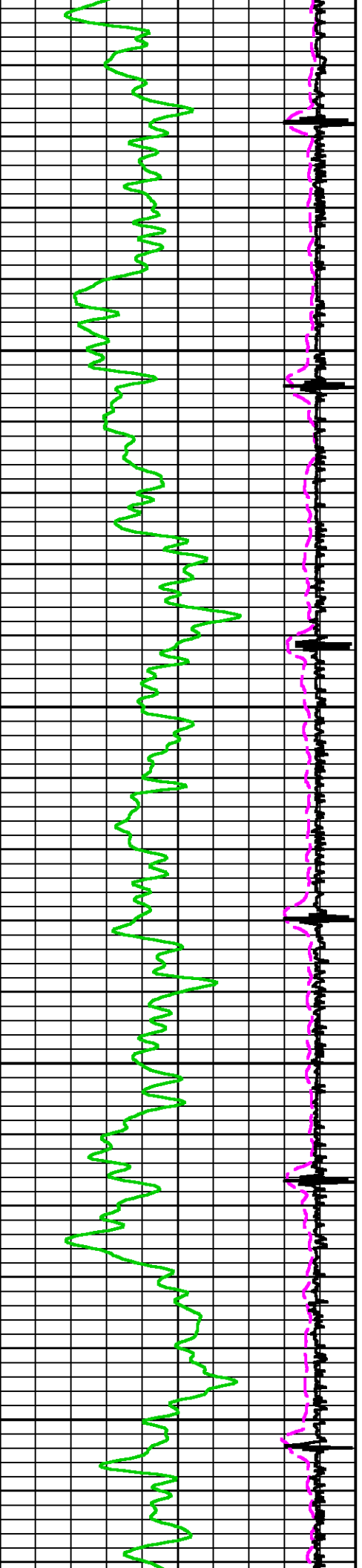


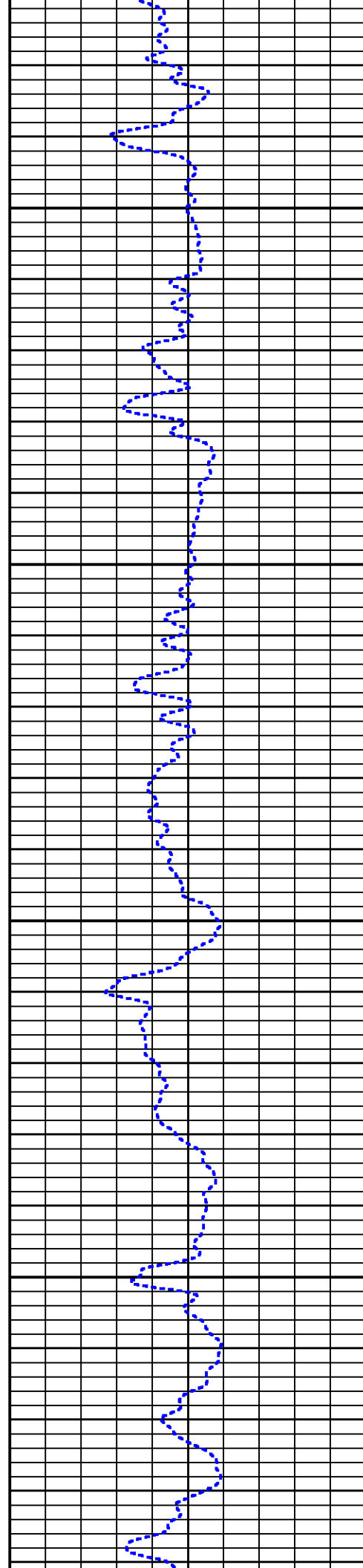
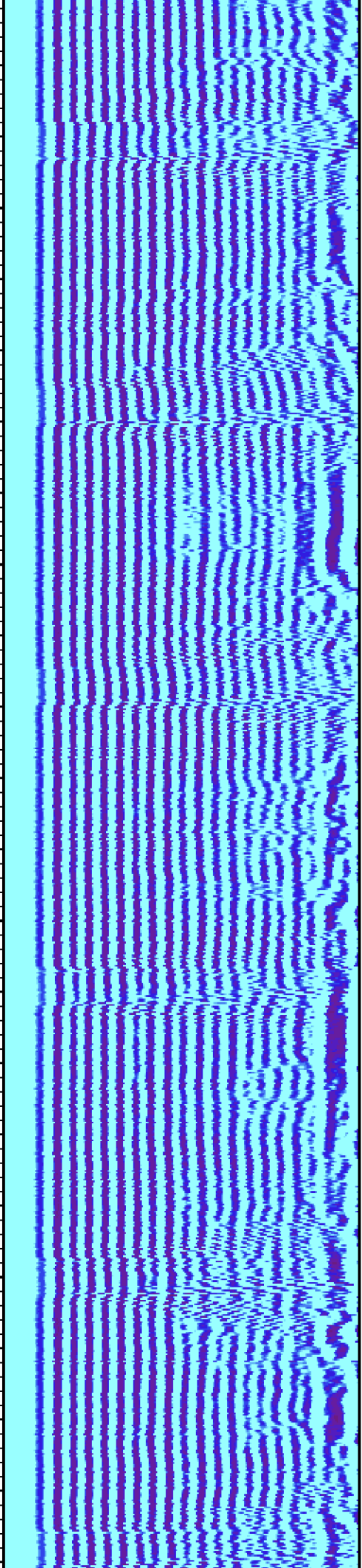


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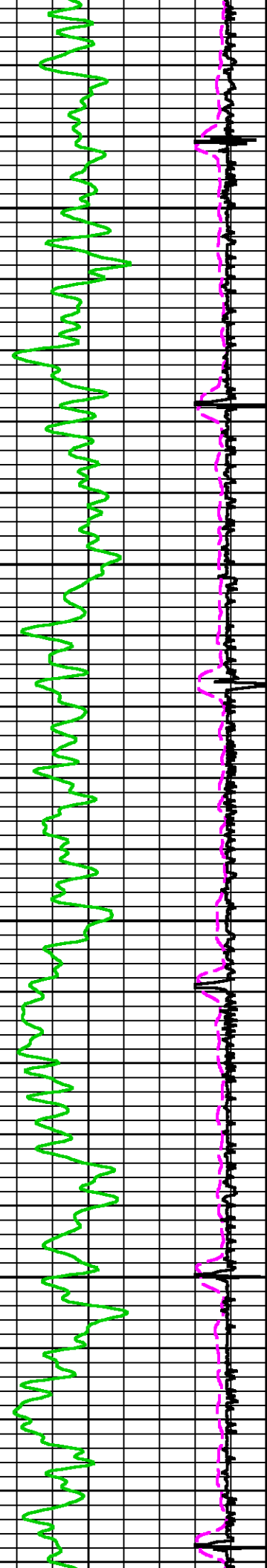
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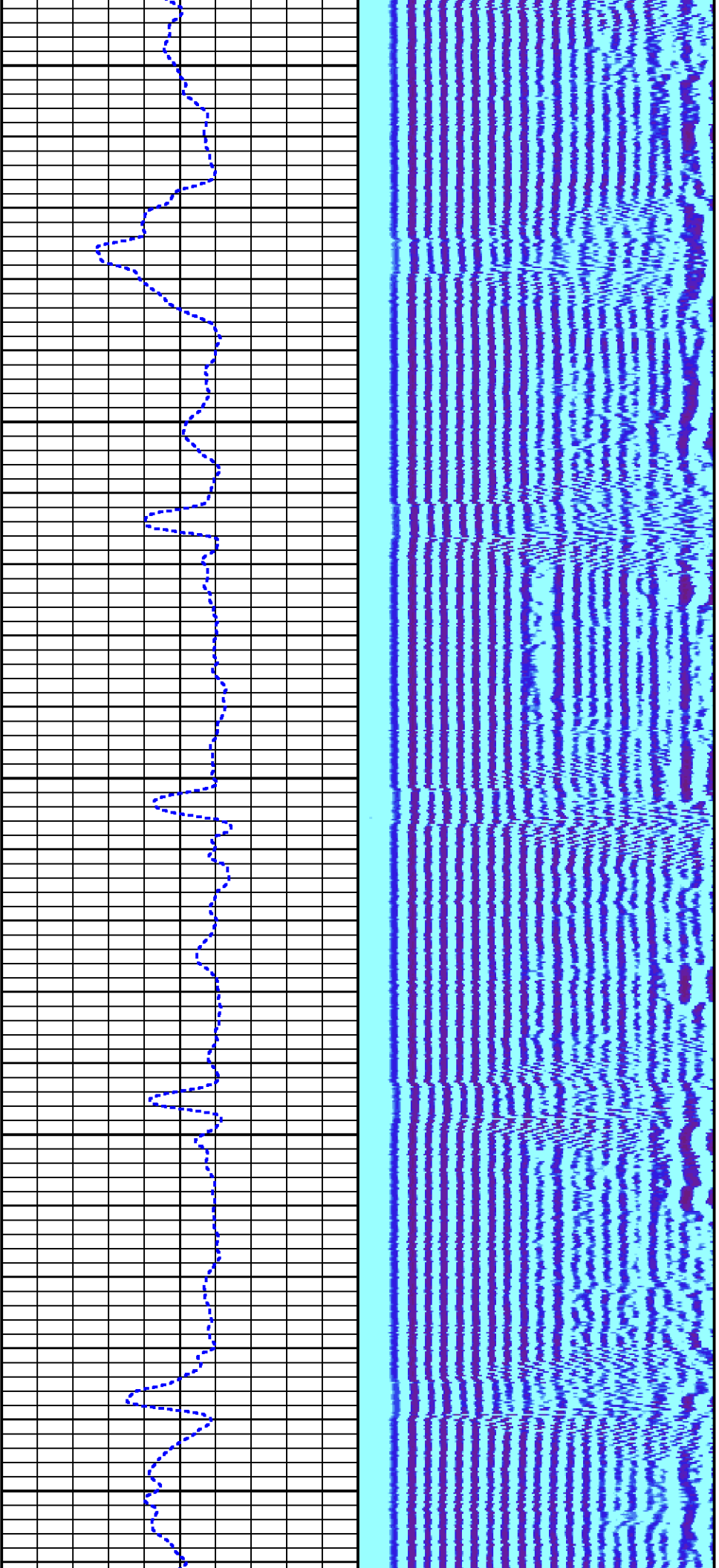




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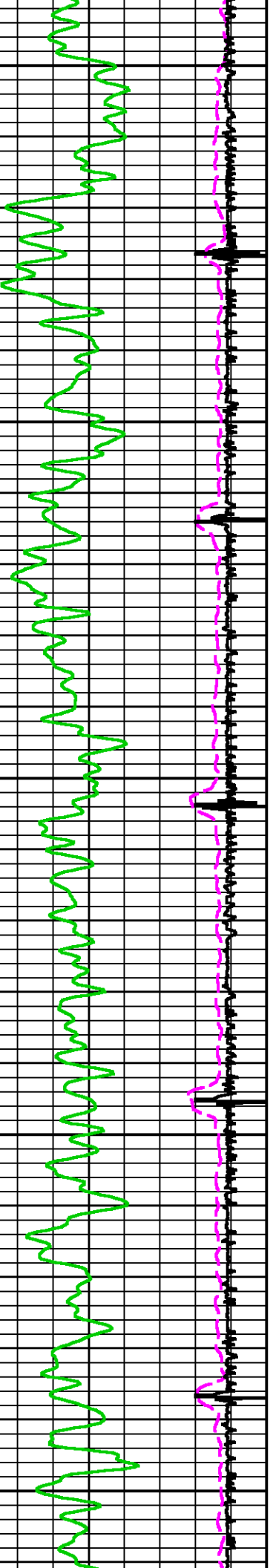
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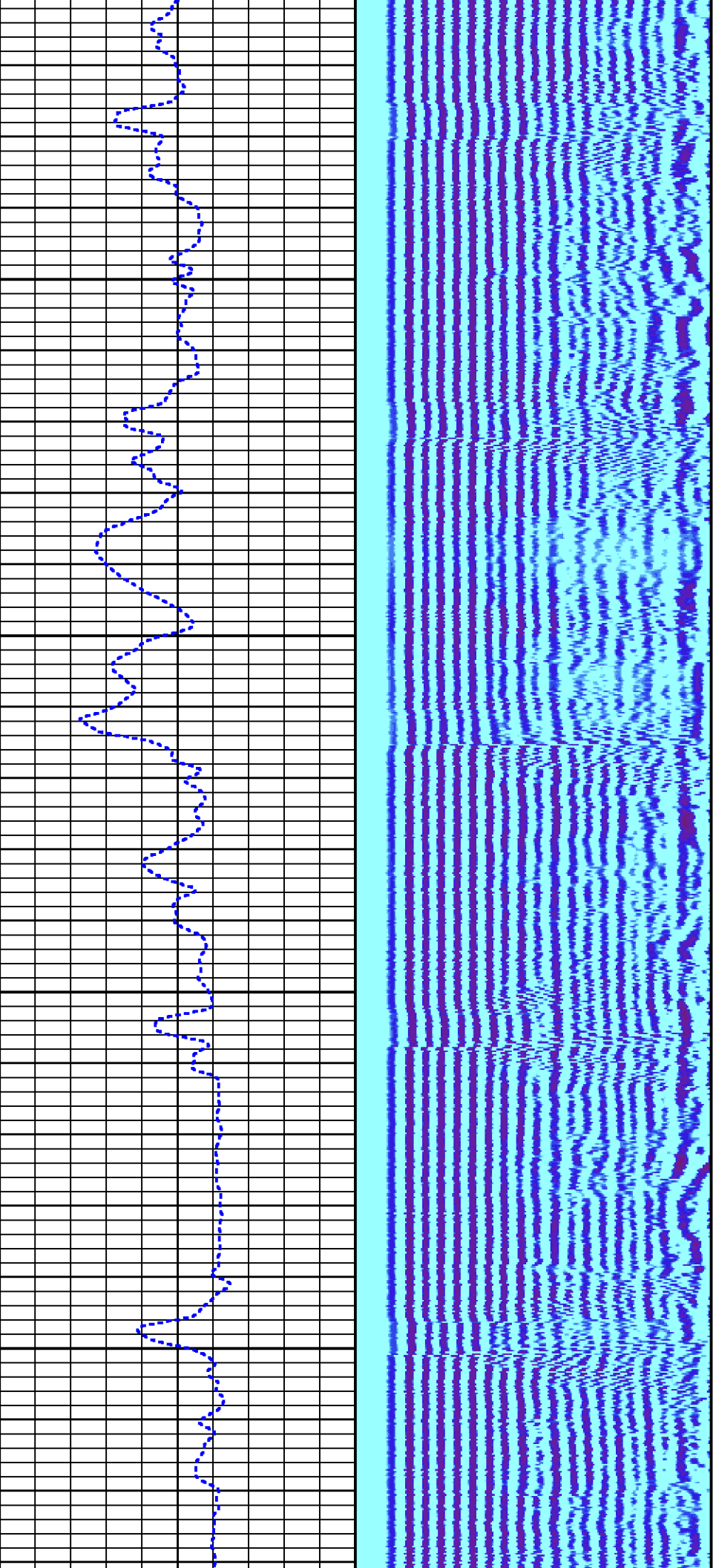




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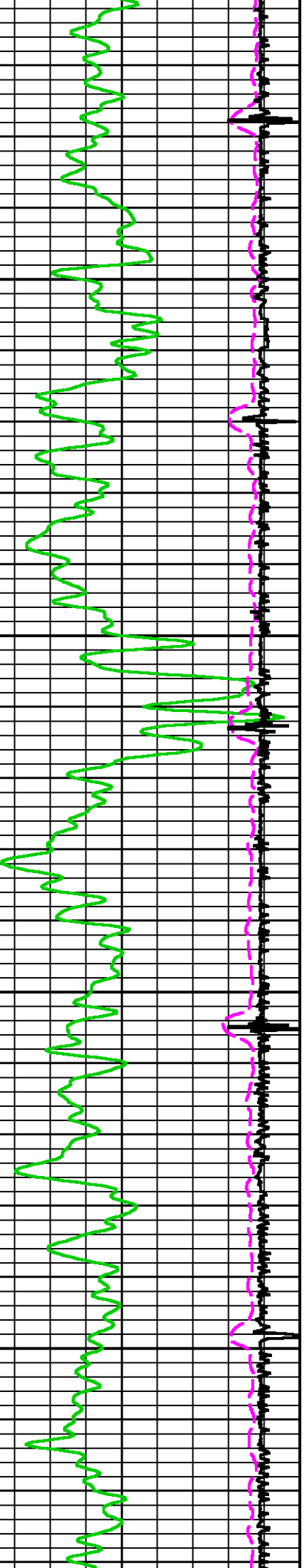
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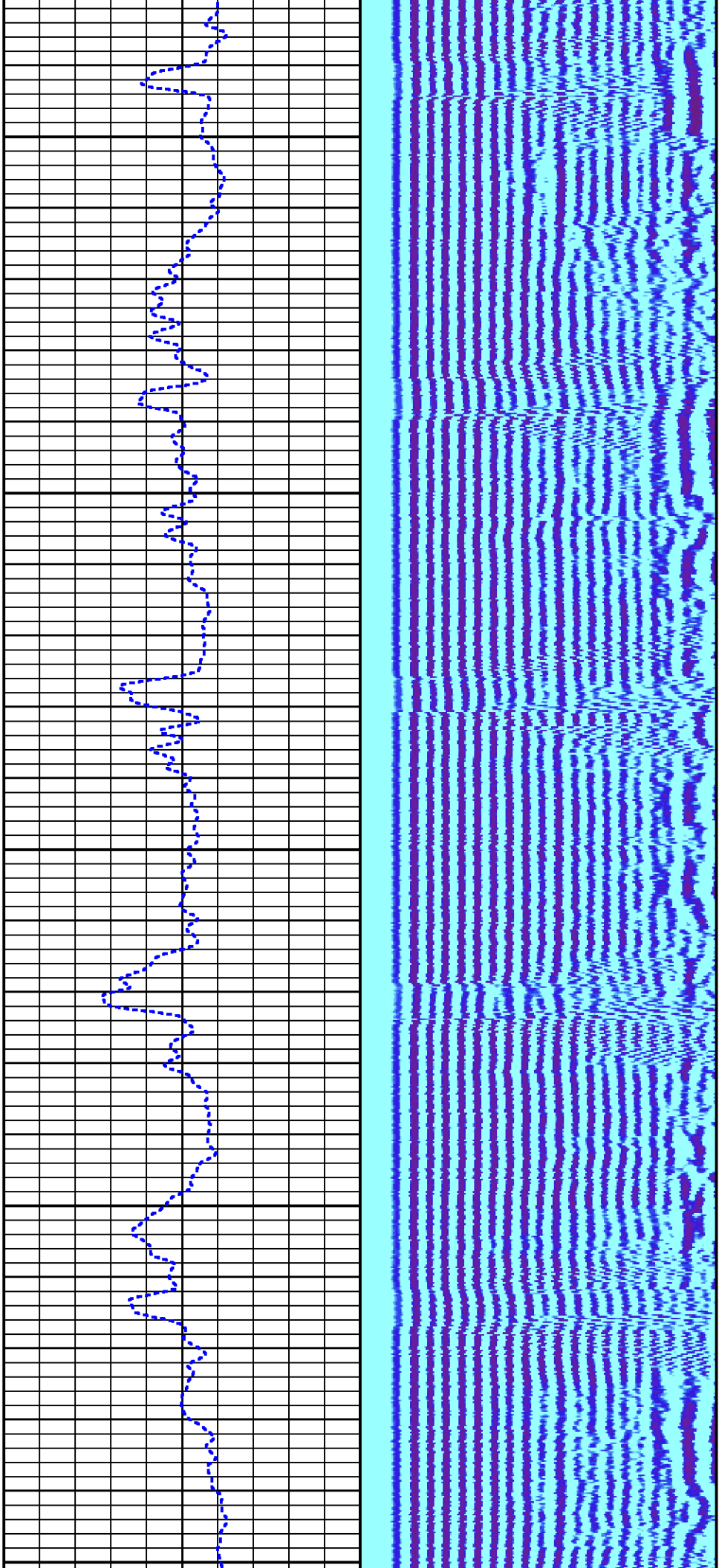




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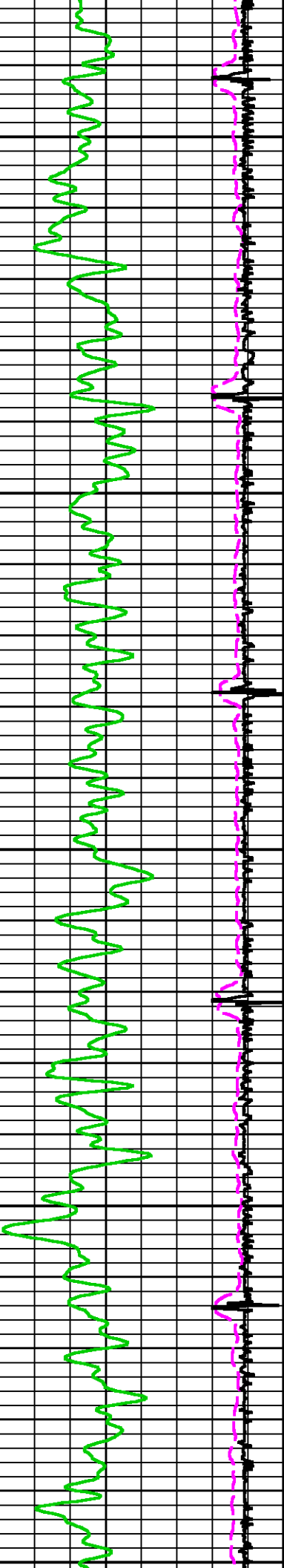


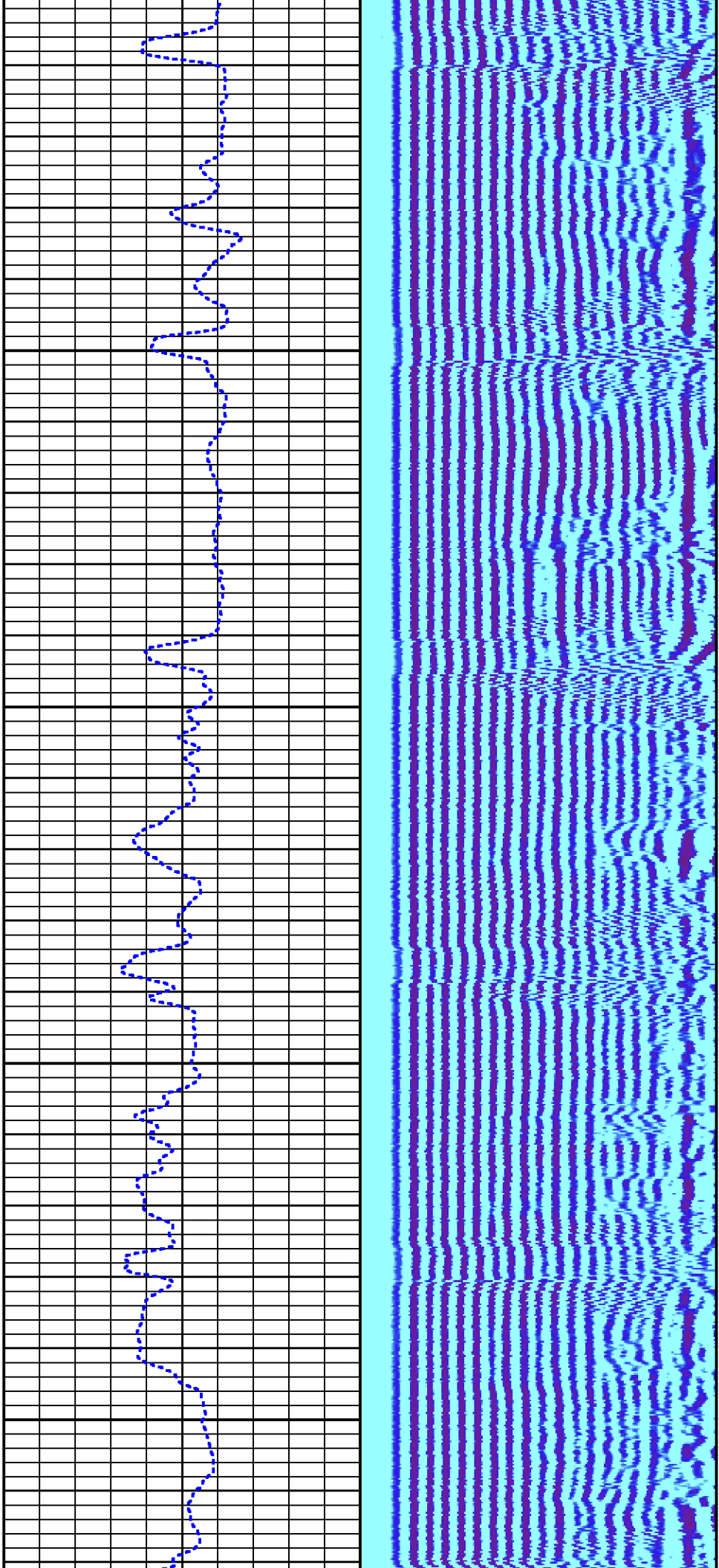


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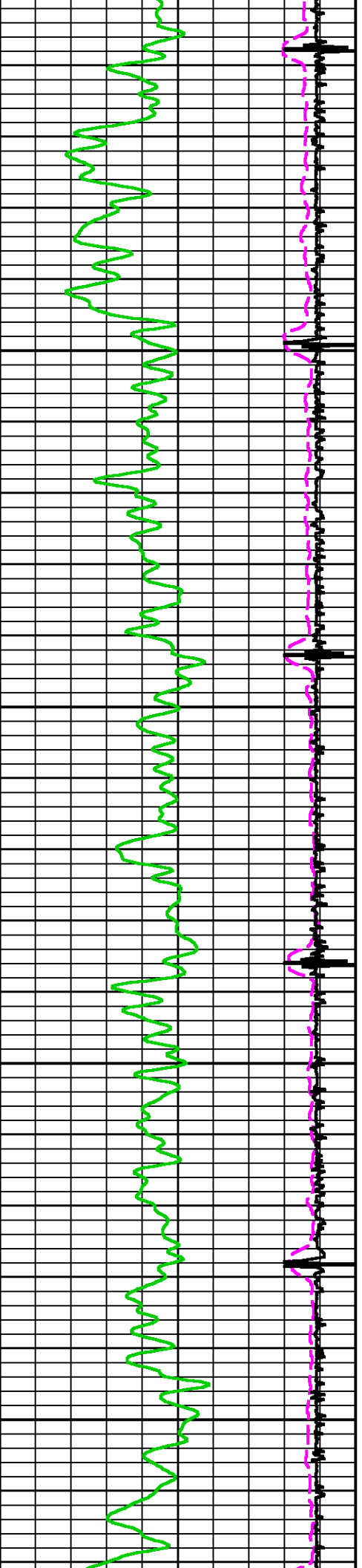
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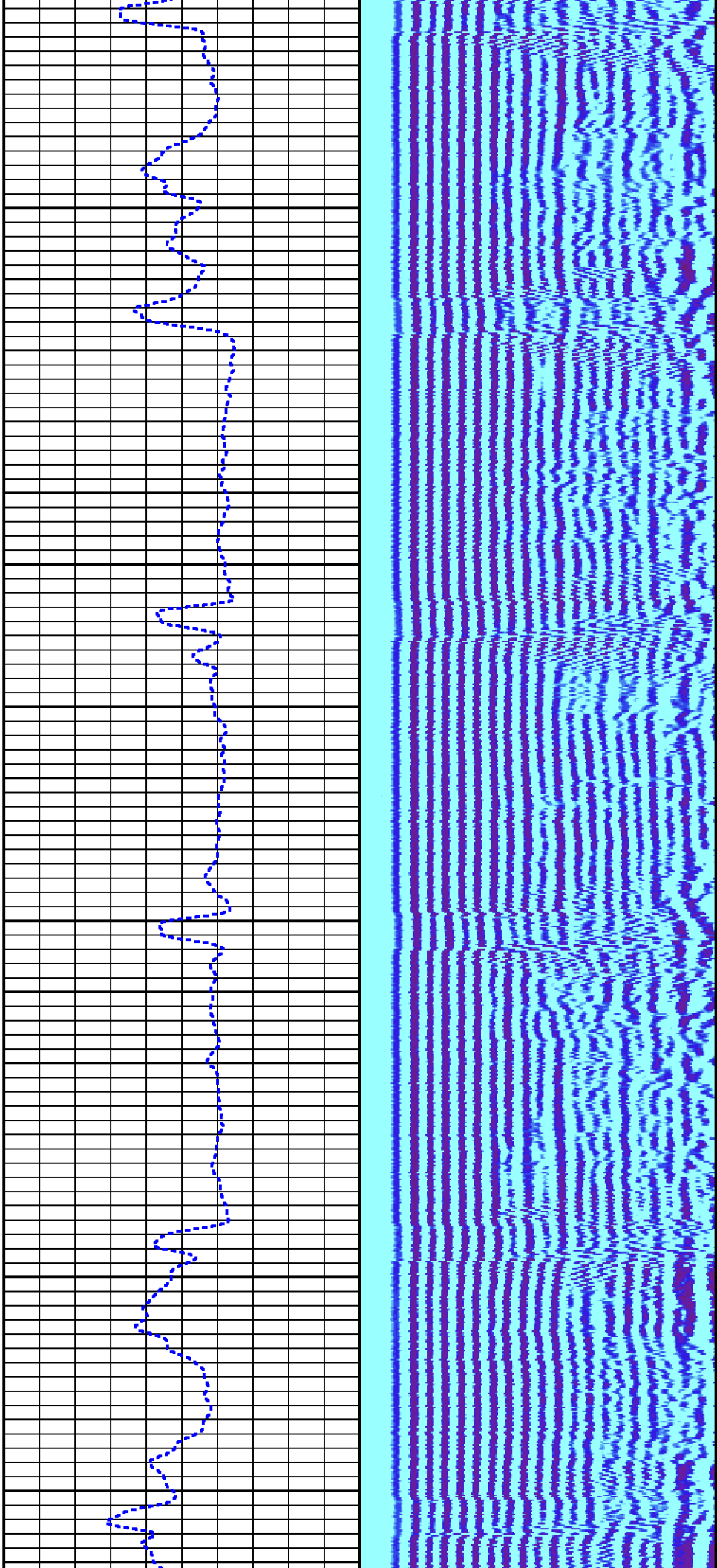
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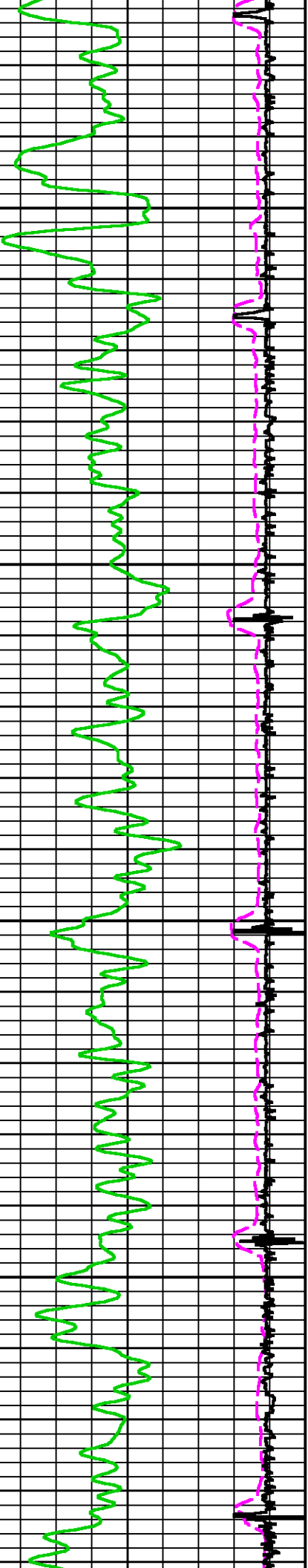
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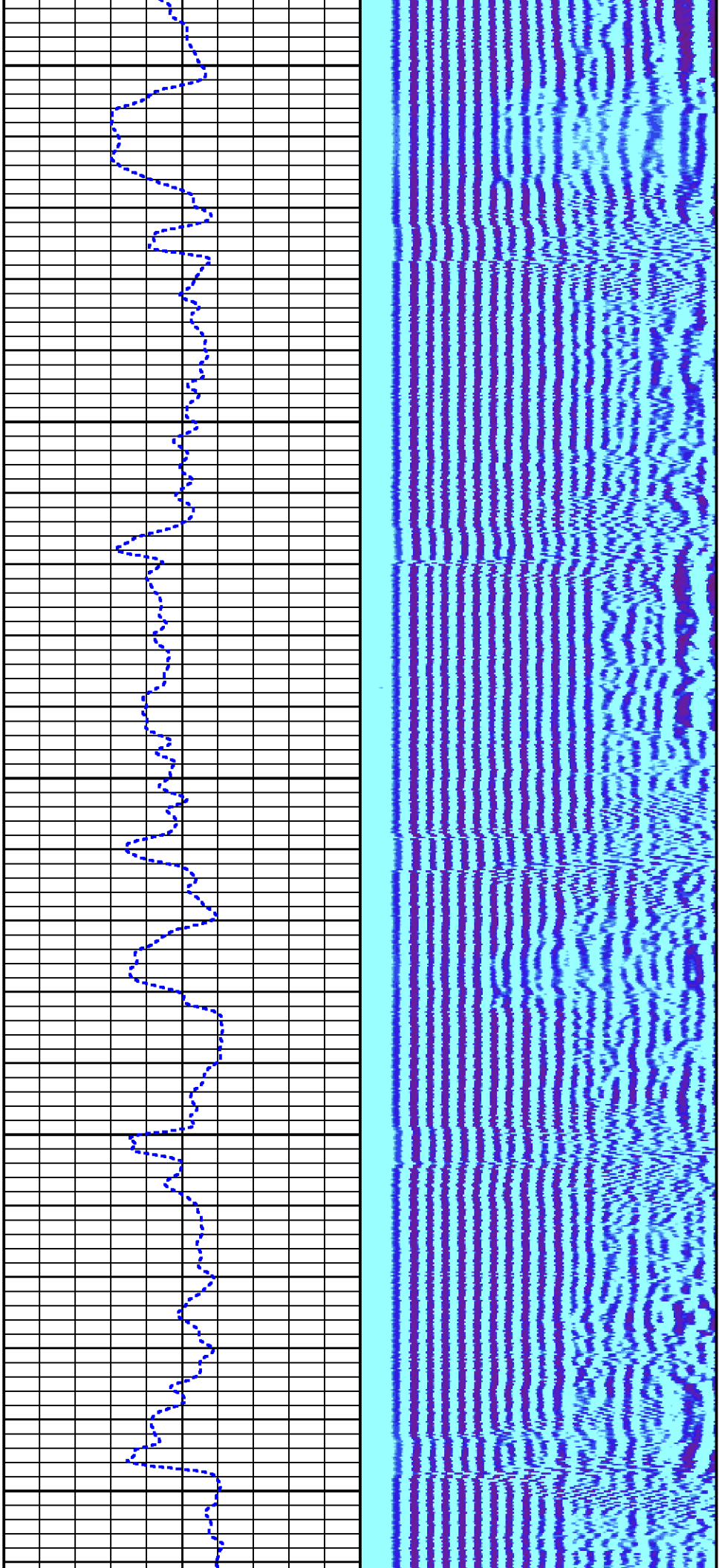




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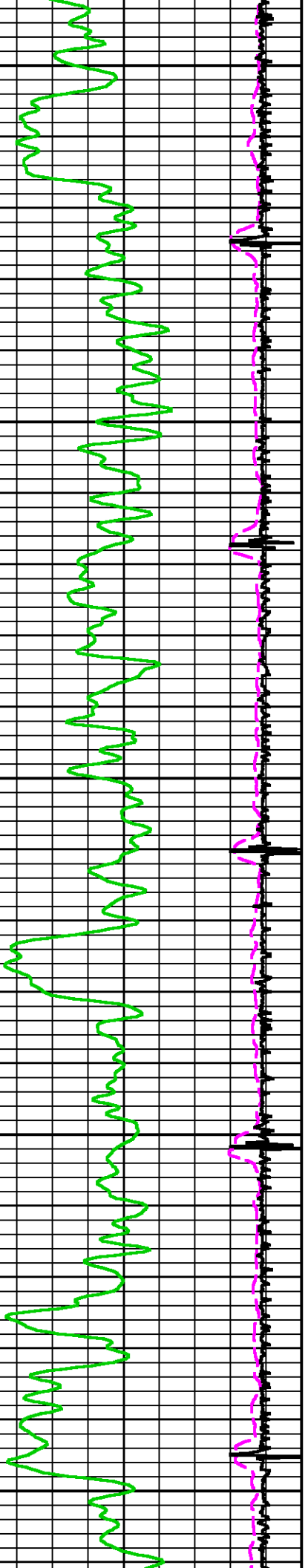
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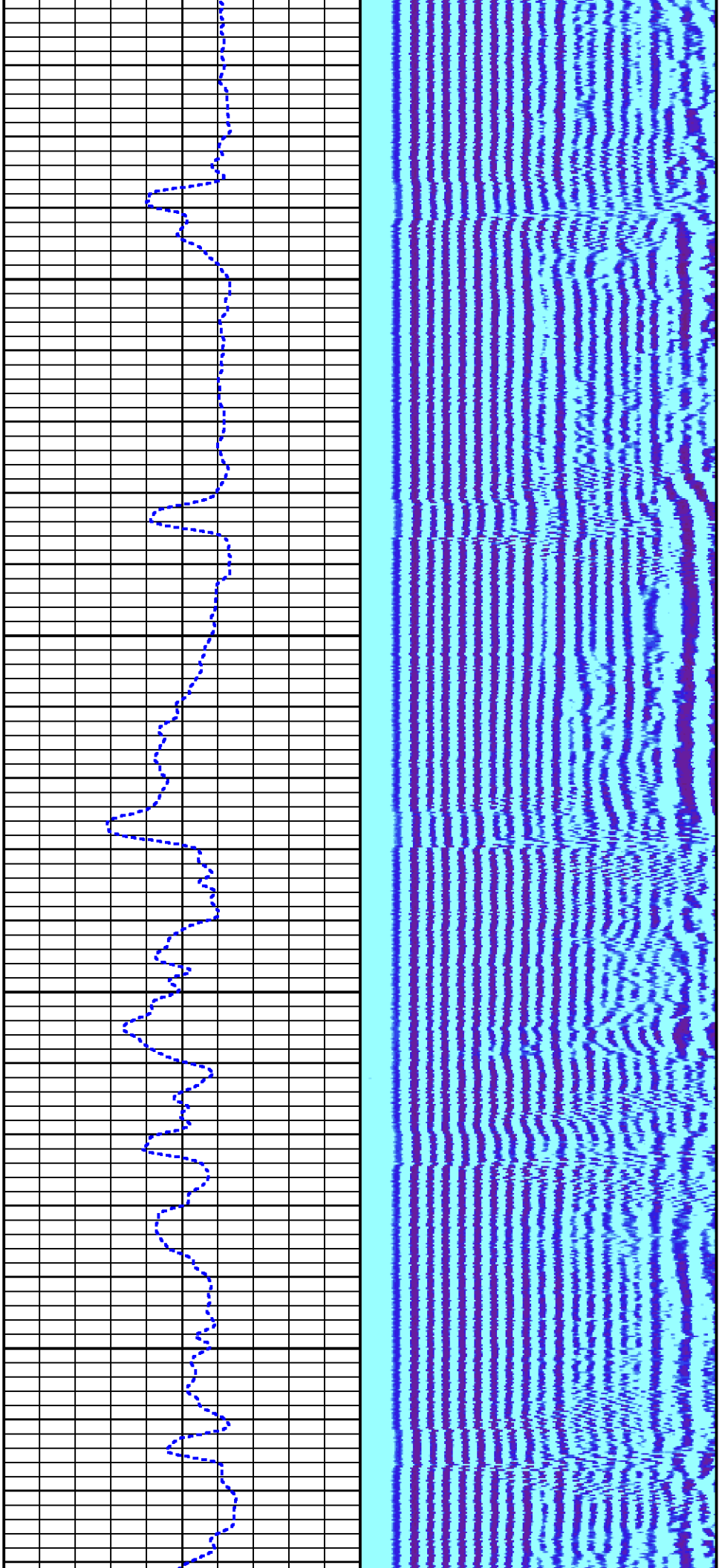




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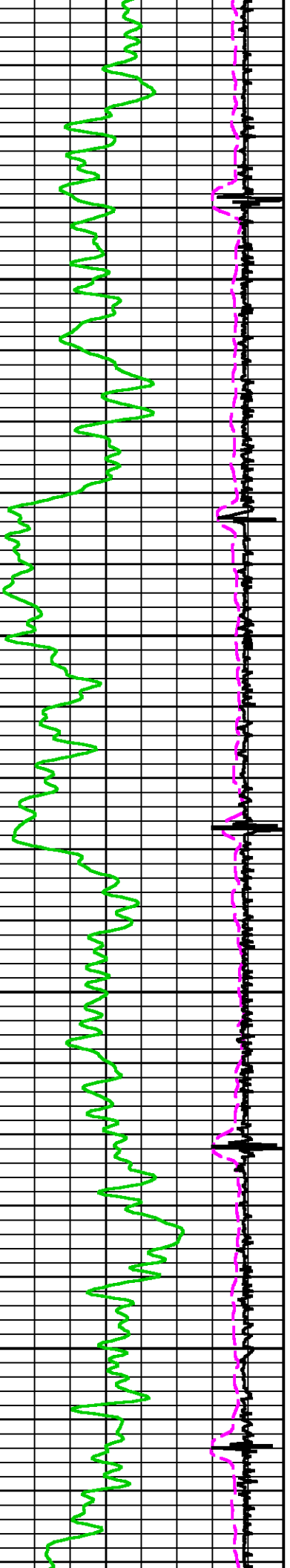
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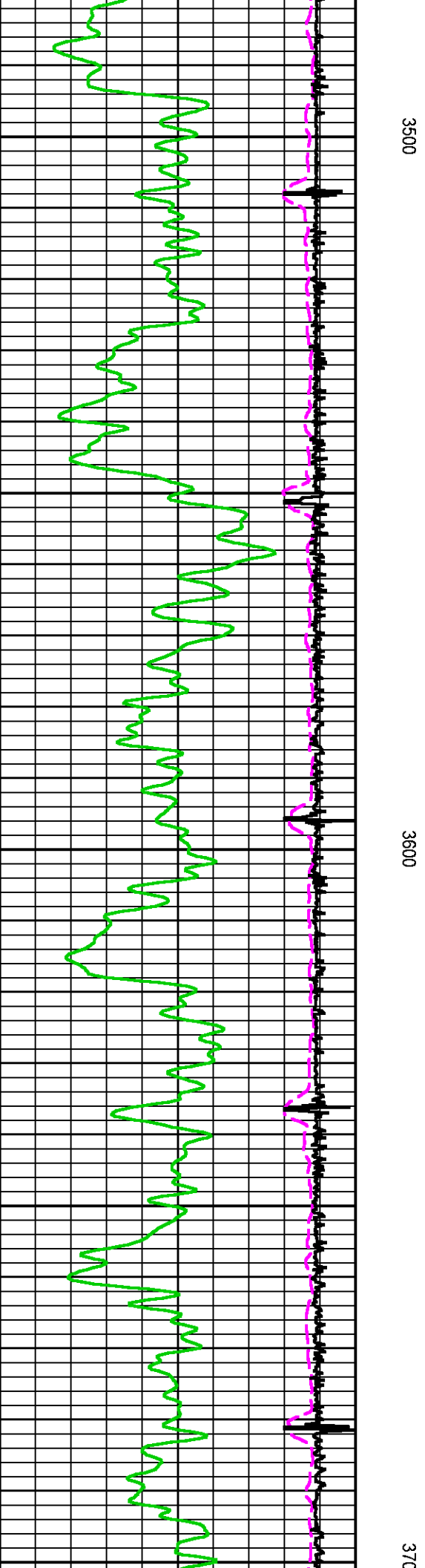
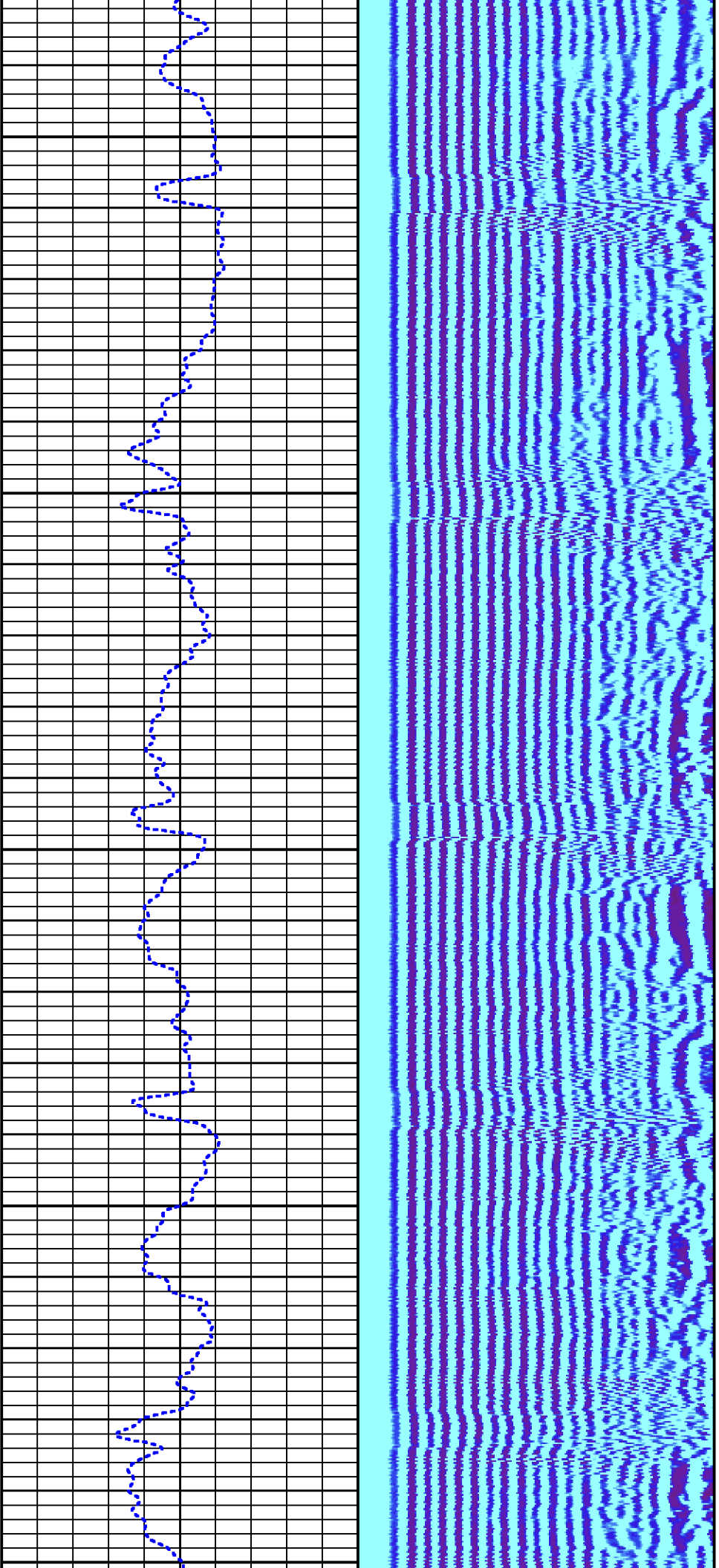


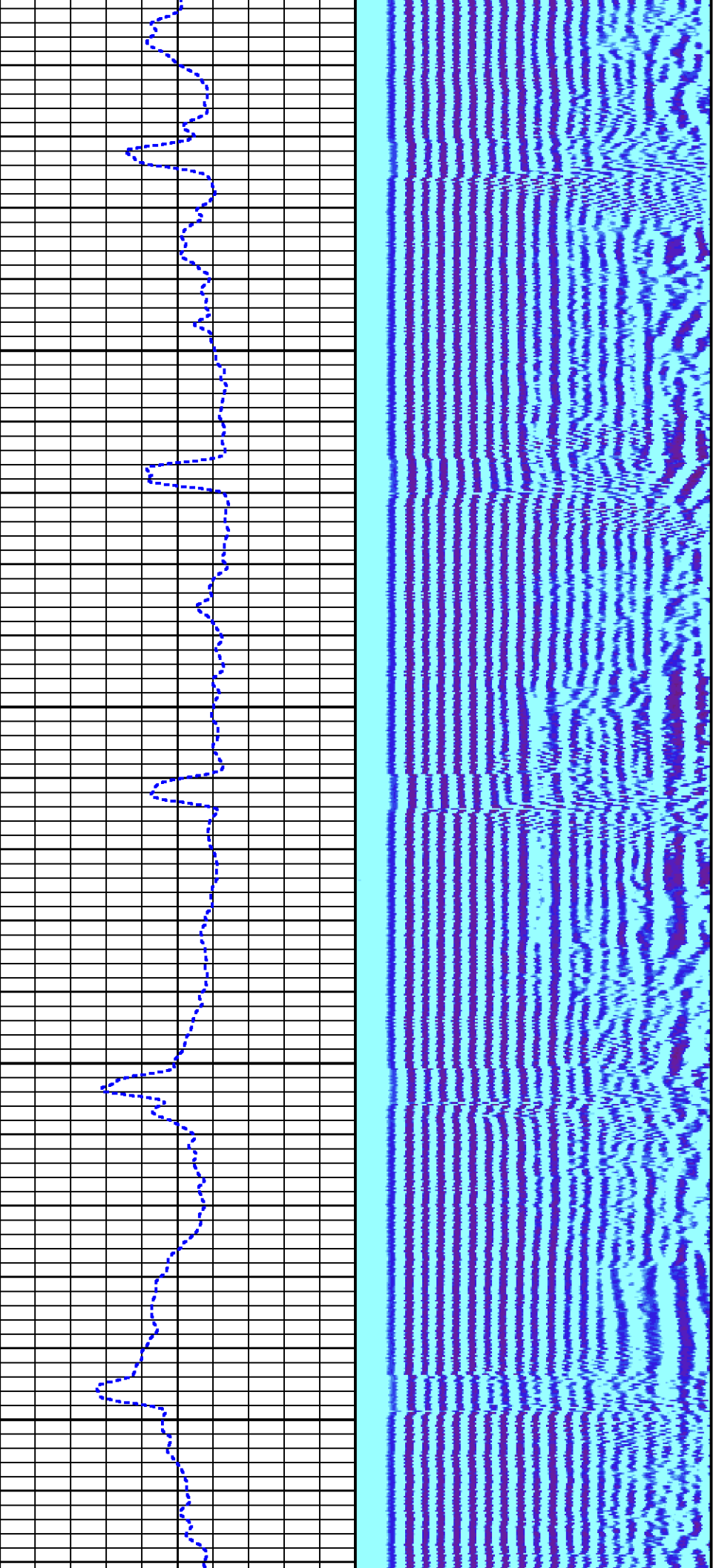


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3400





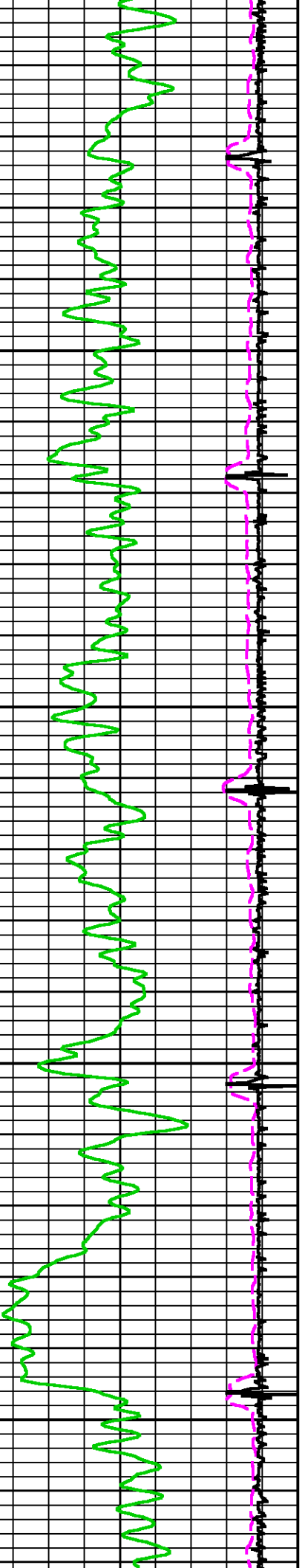


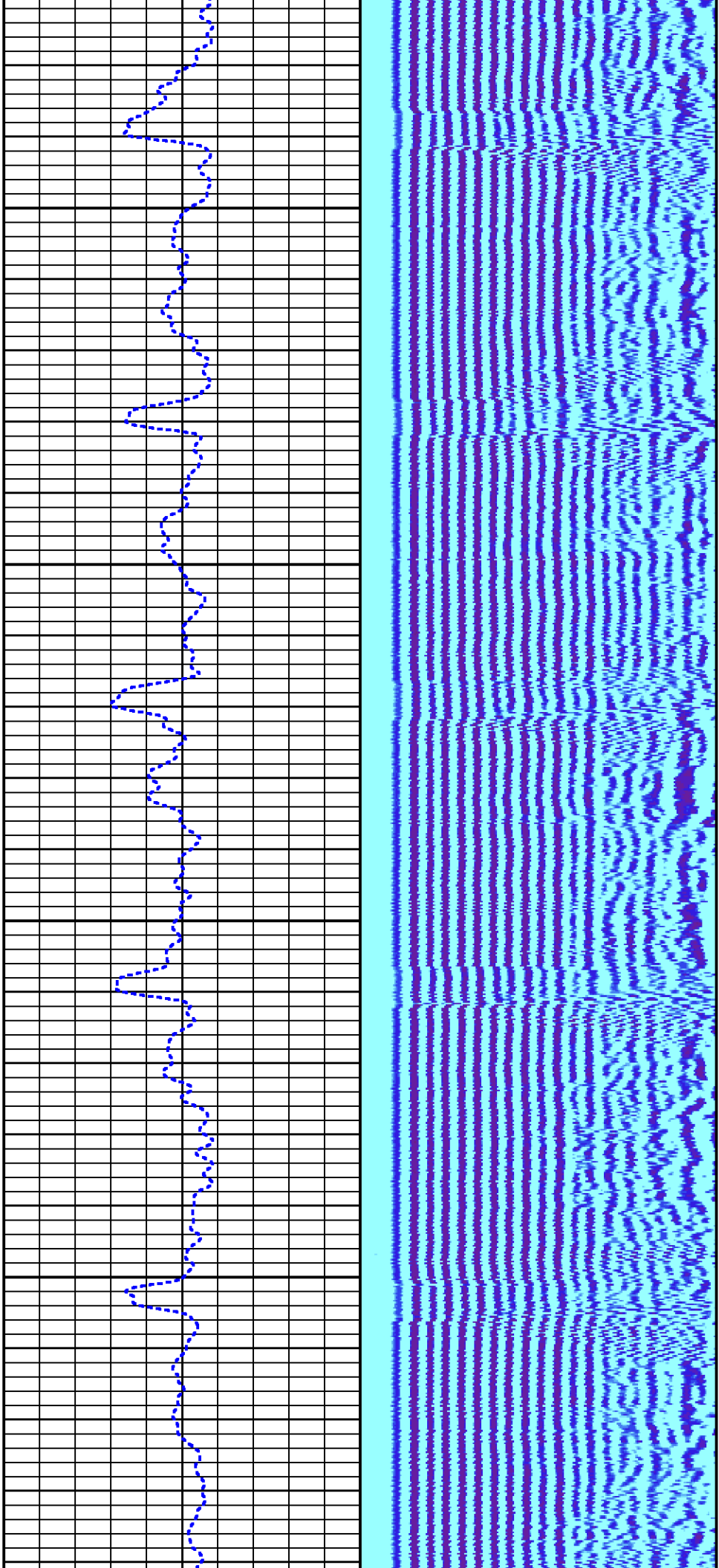
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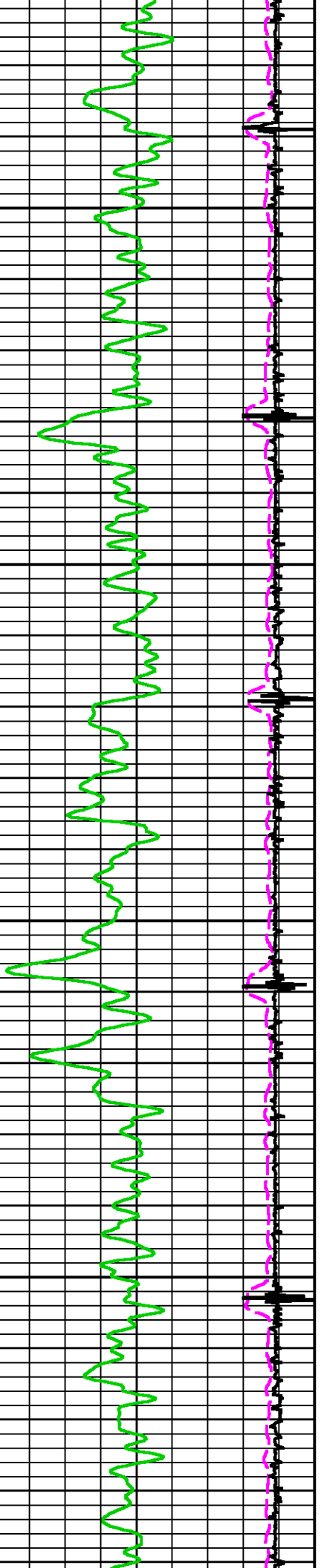
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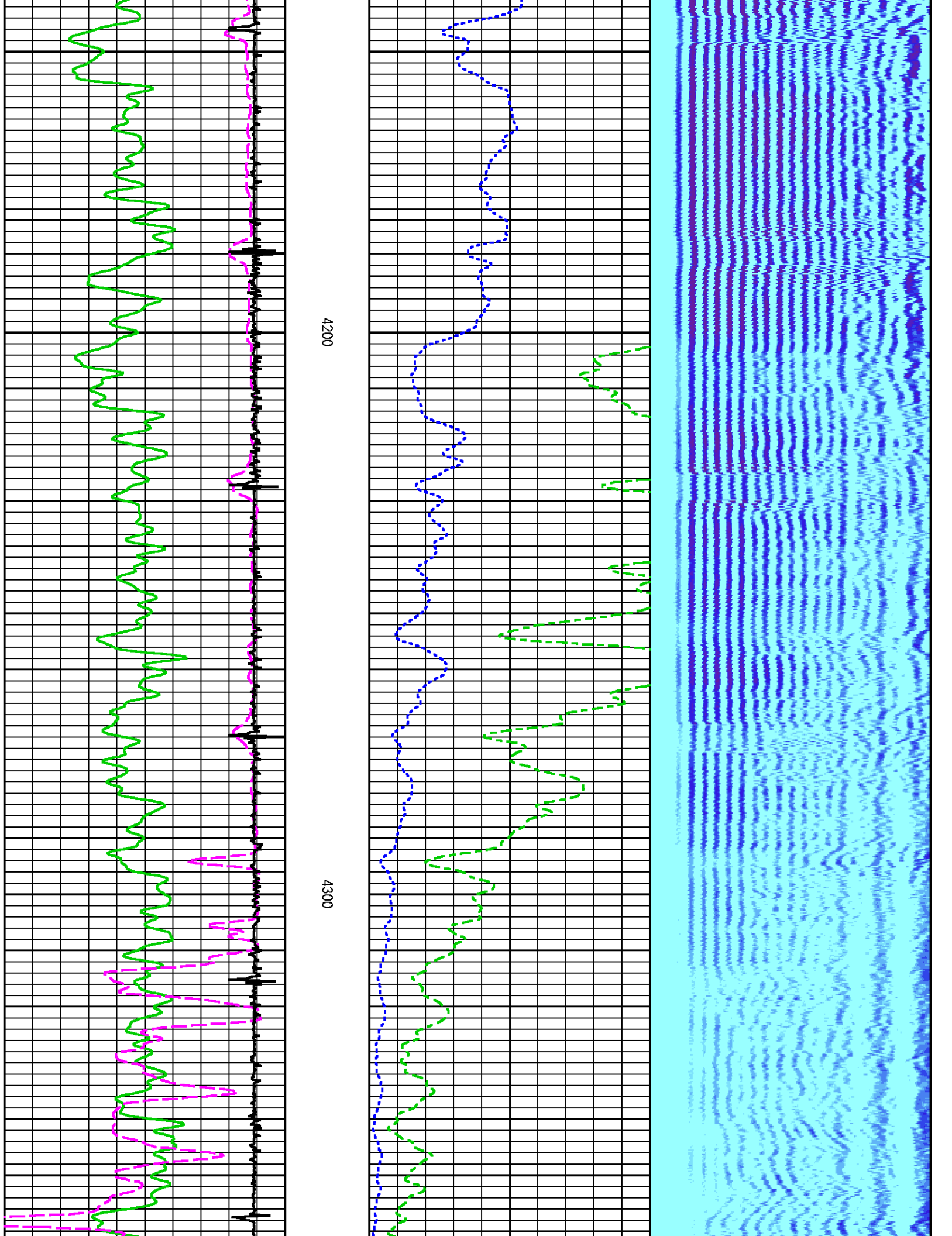


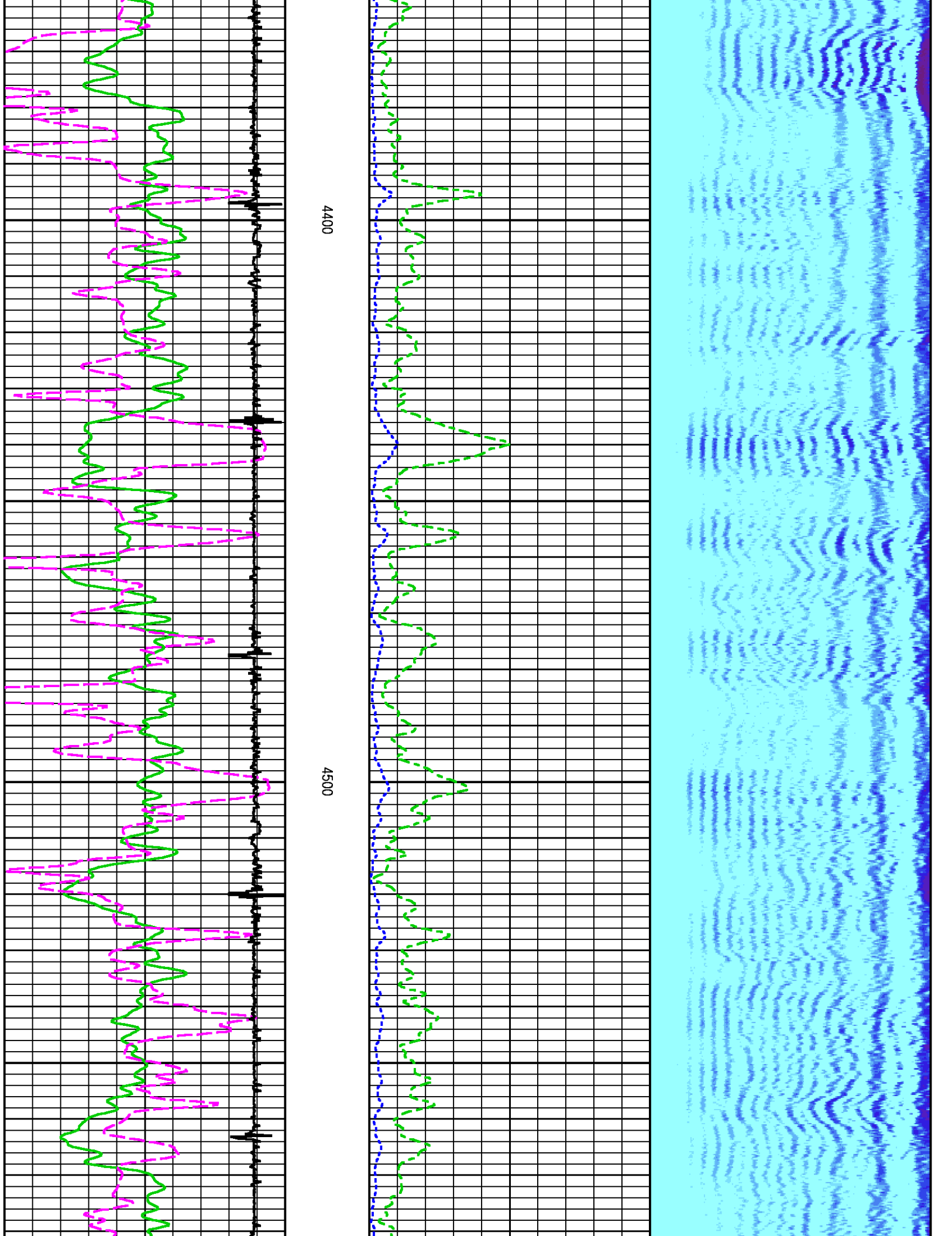


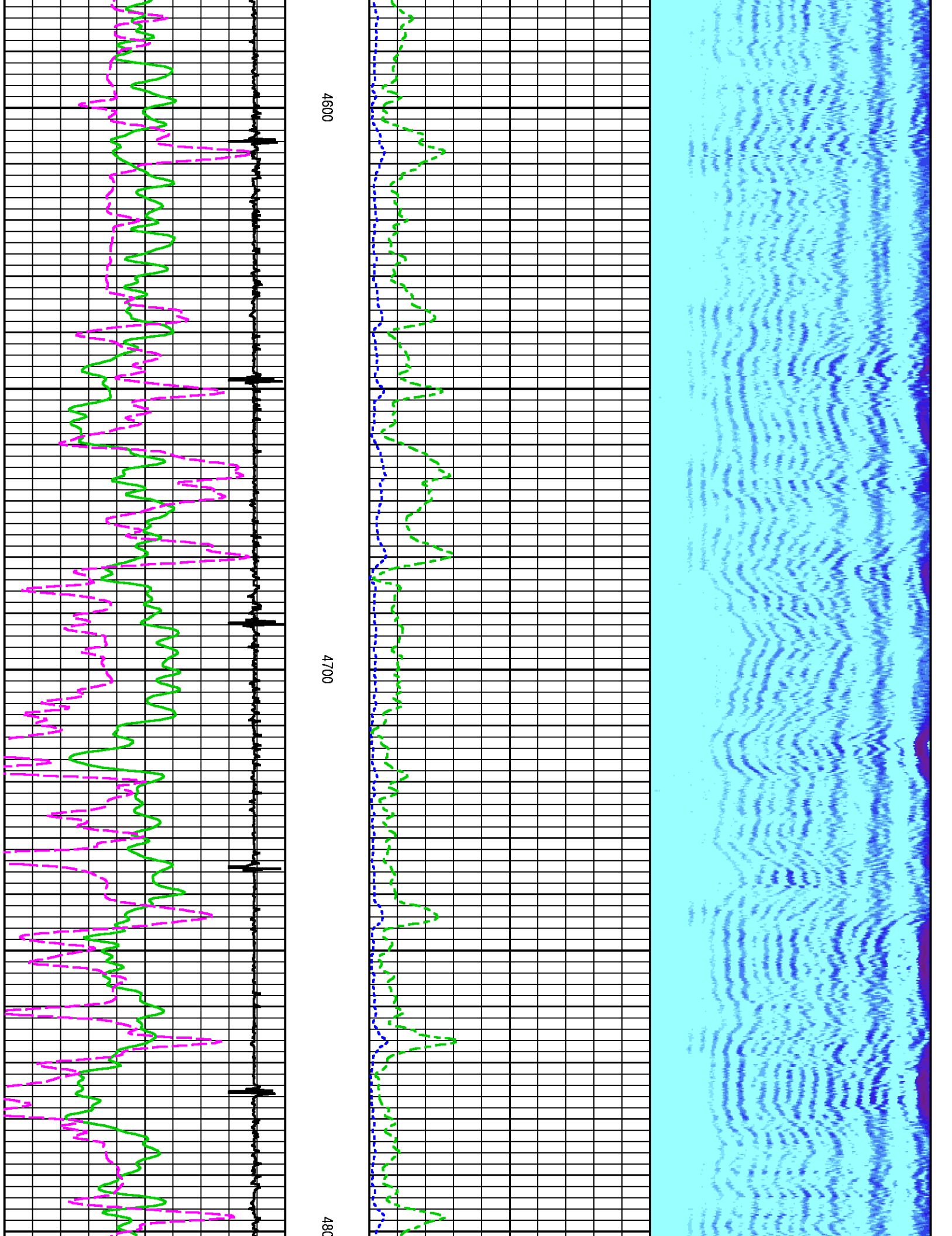
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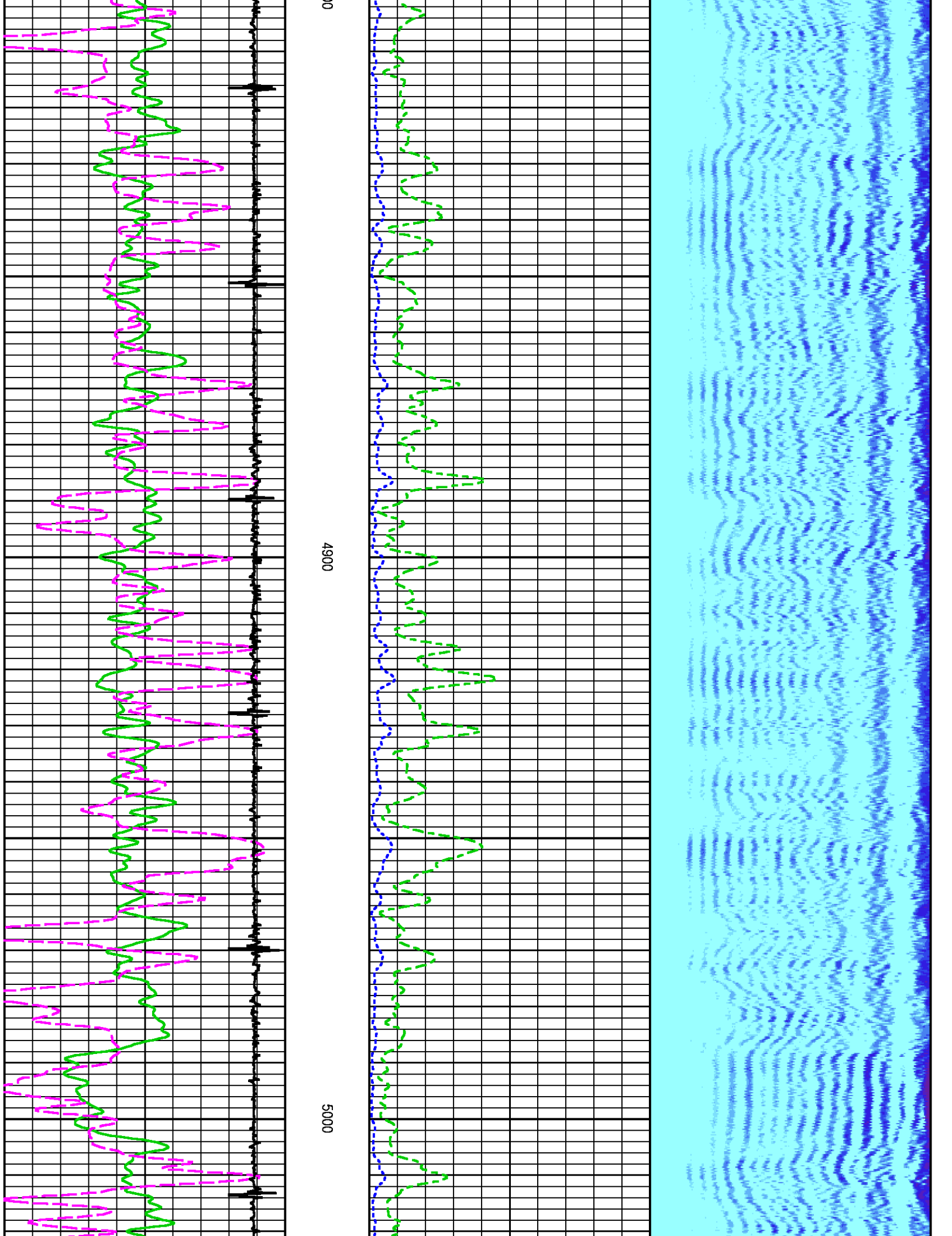
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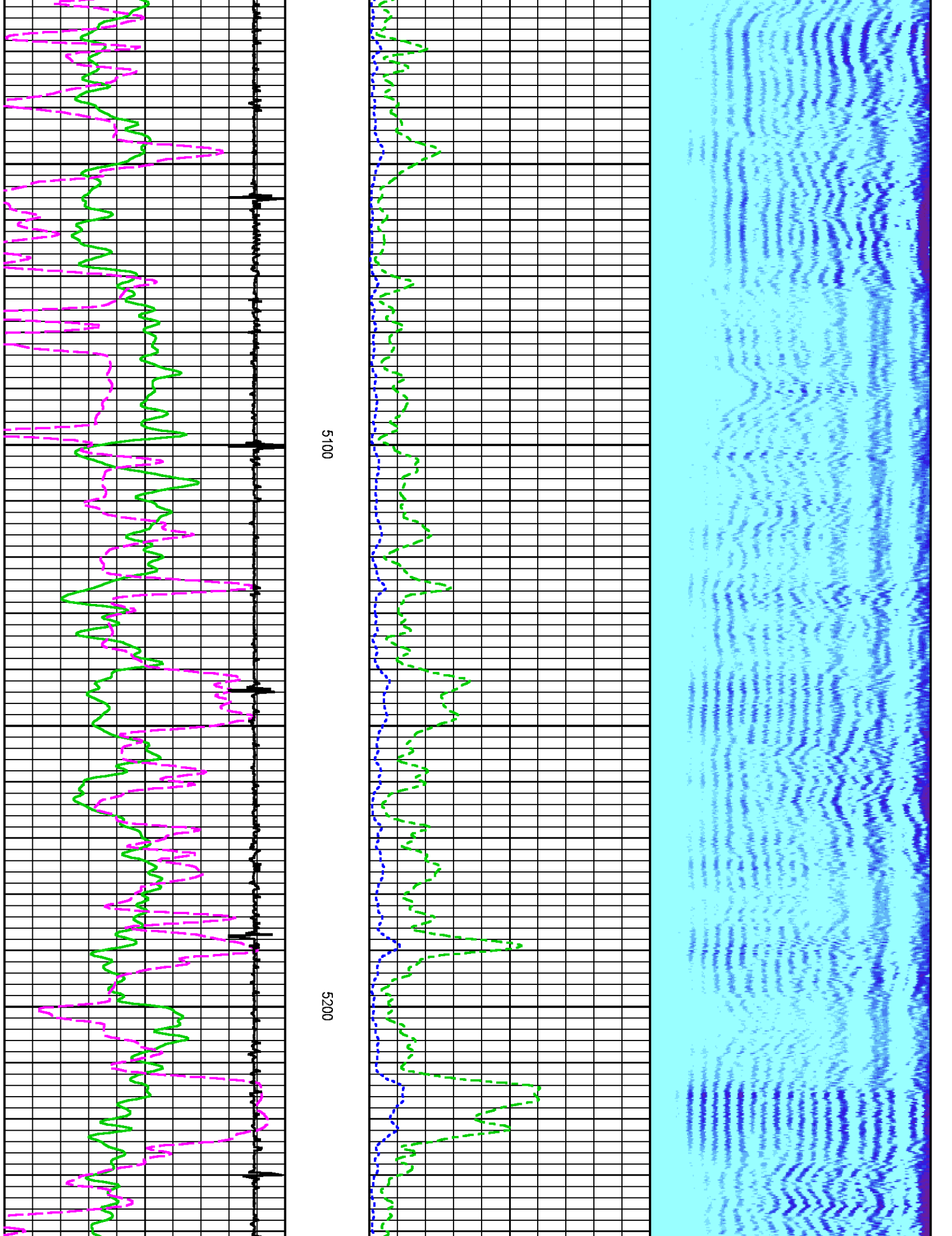


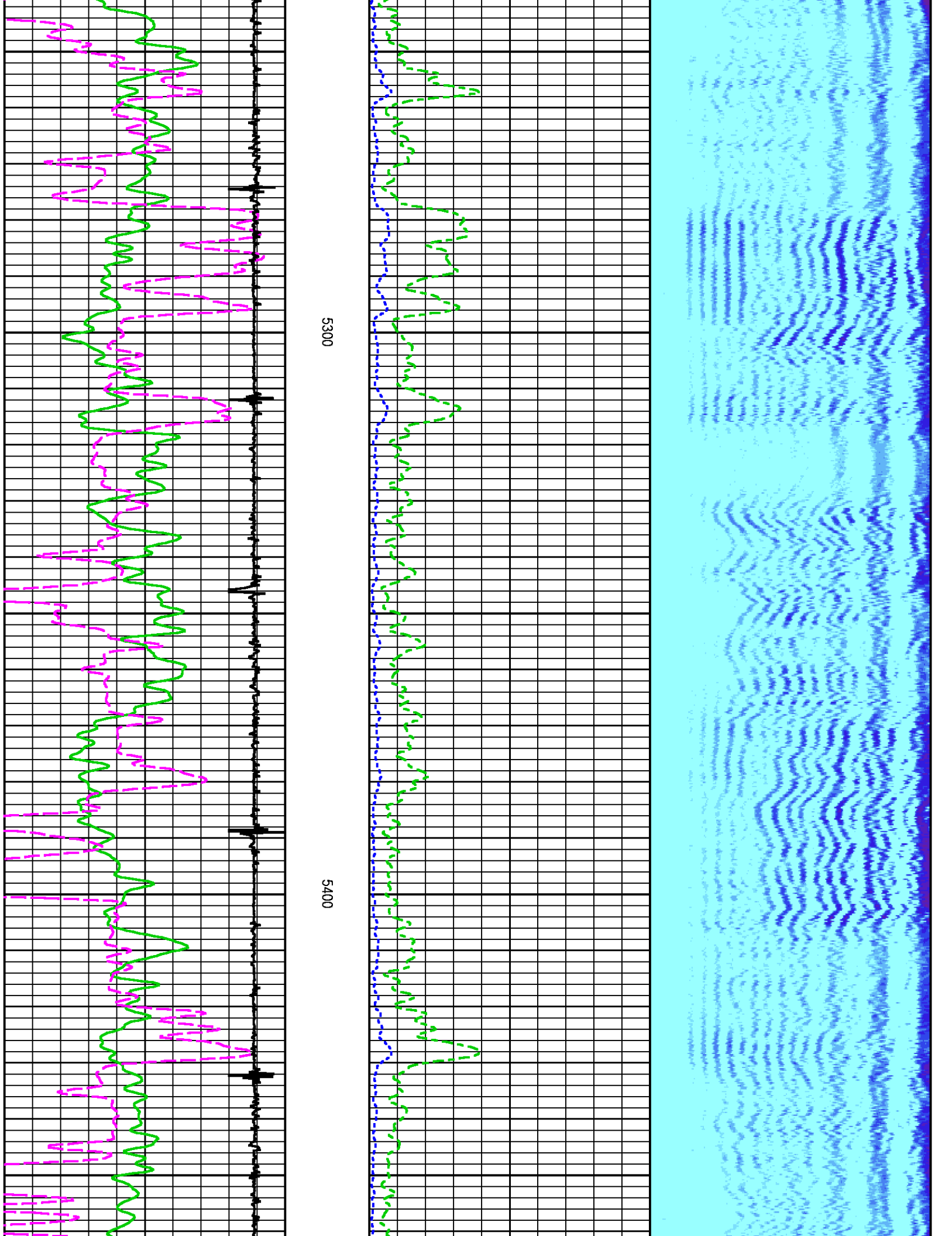


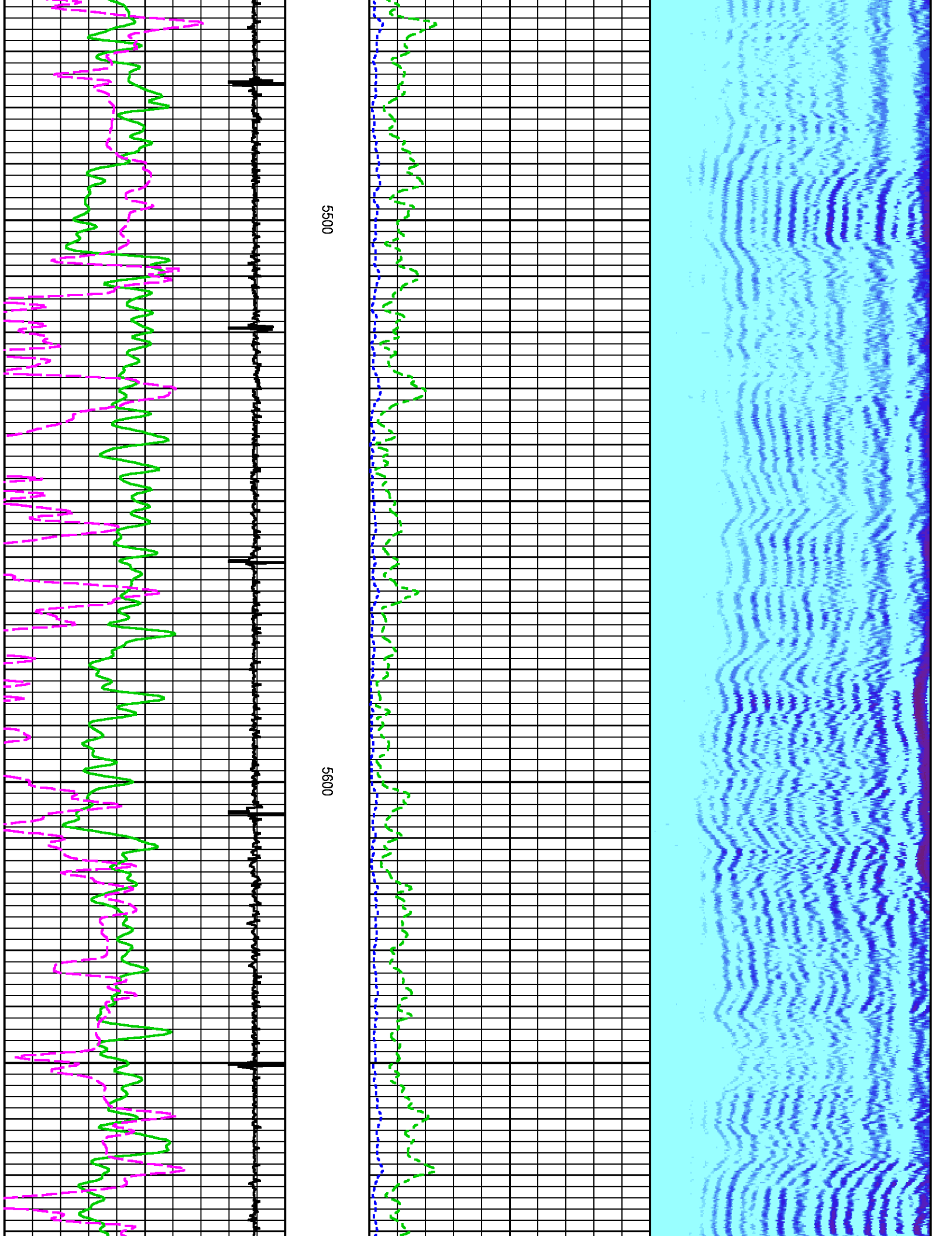


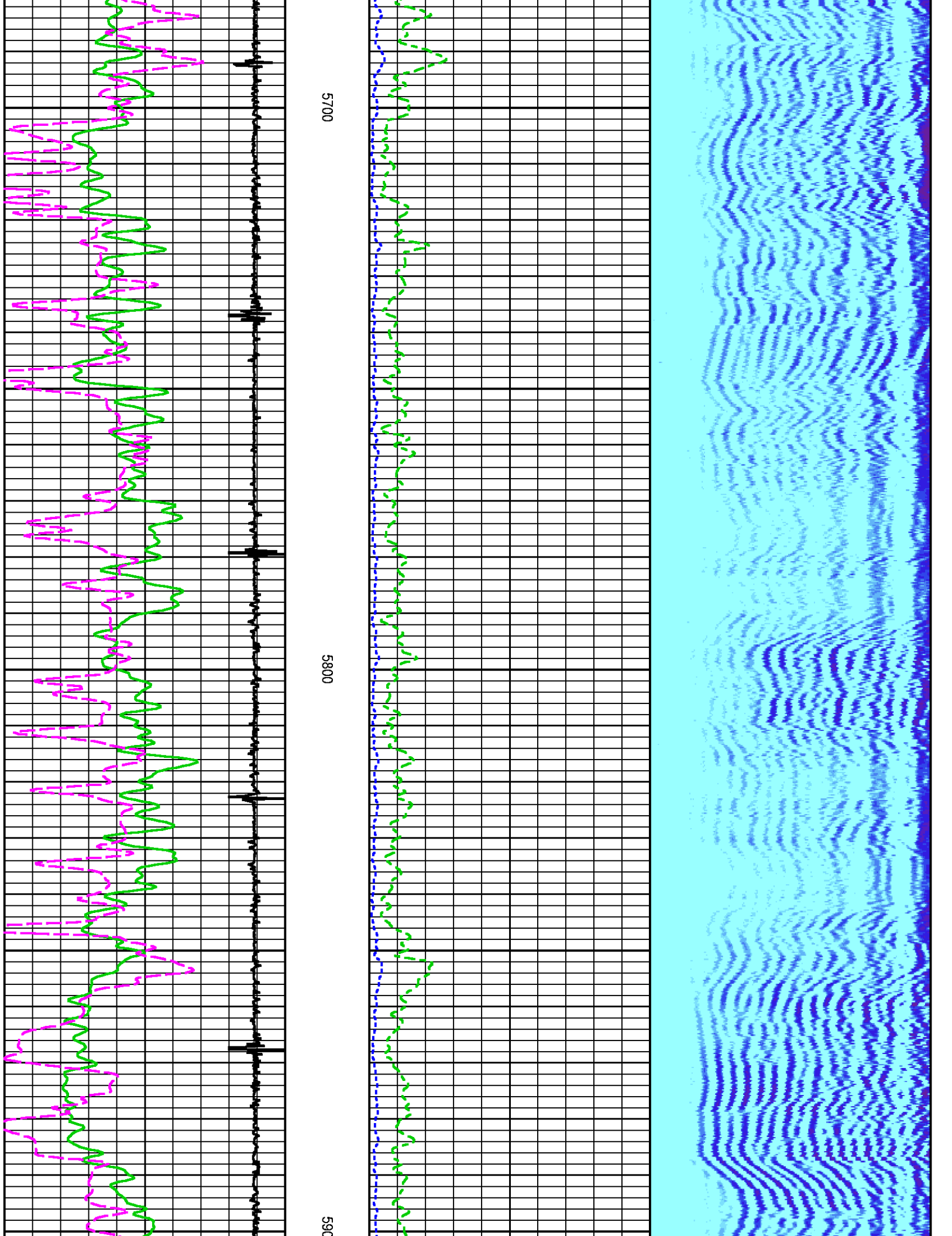


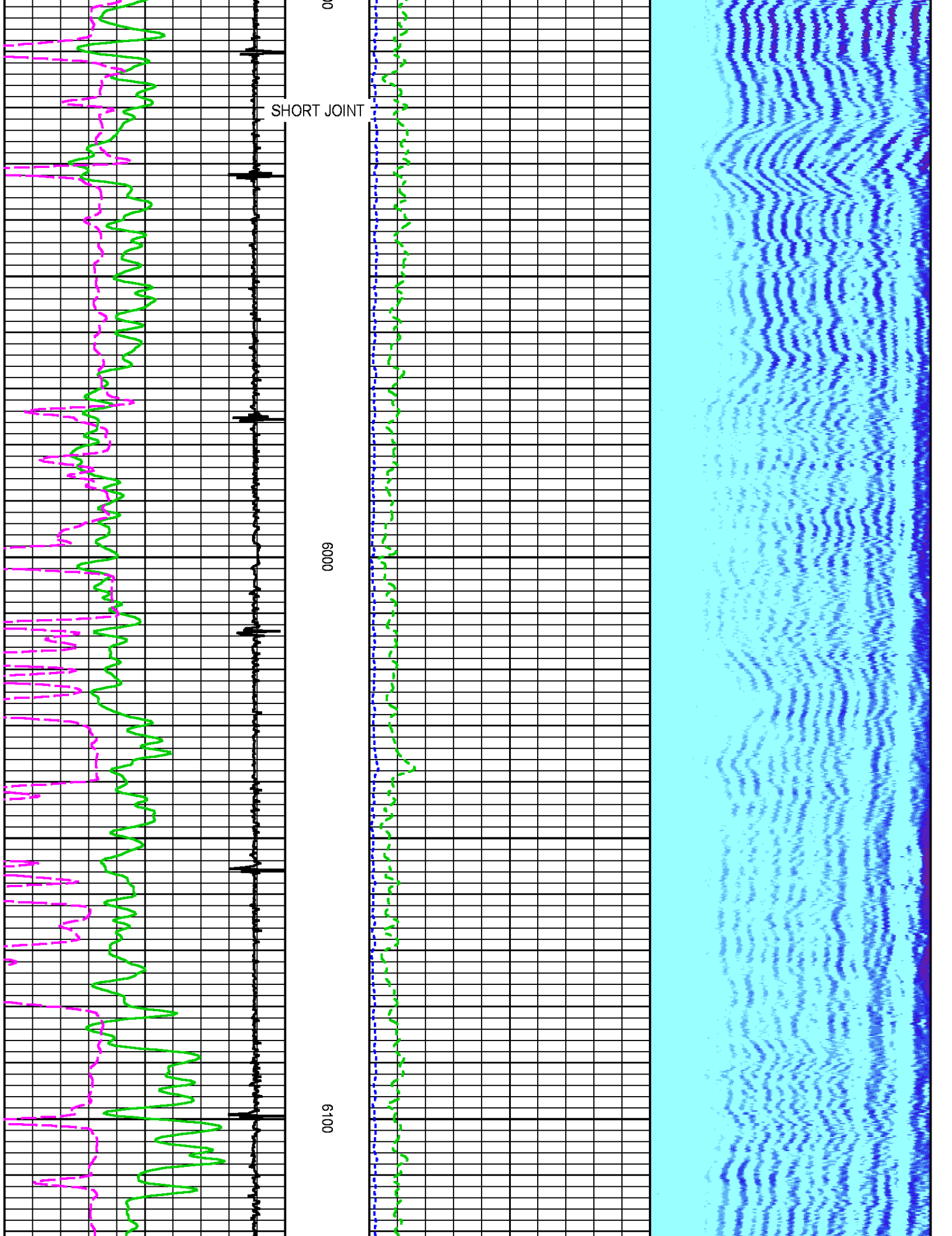


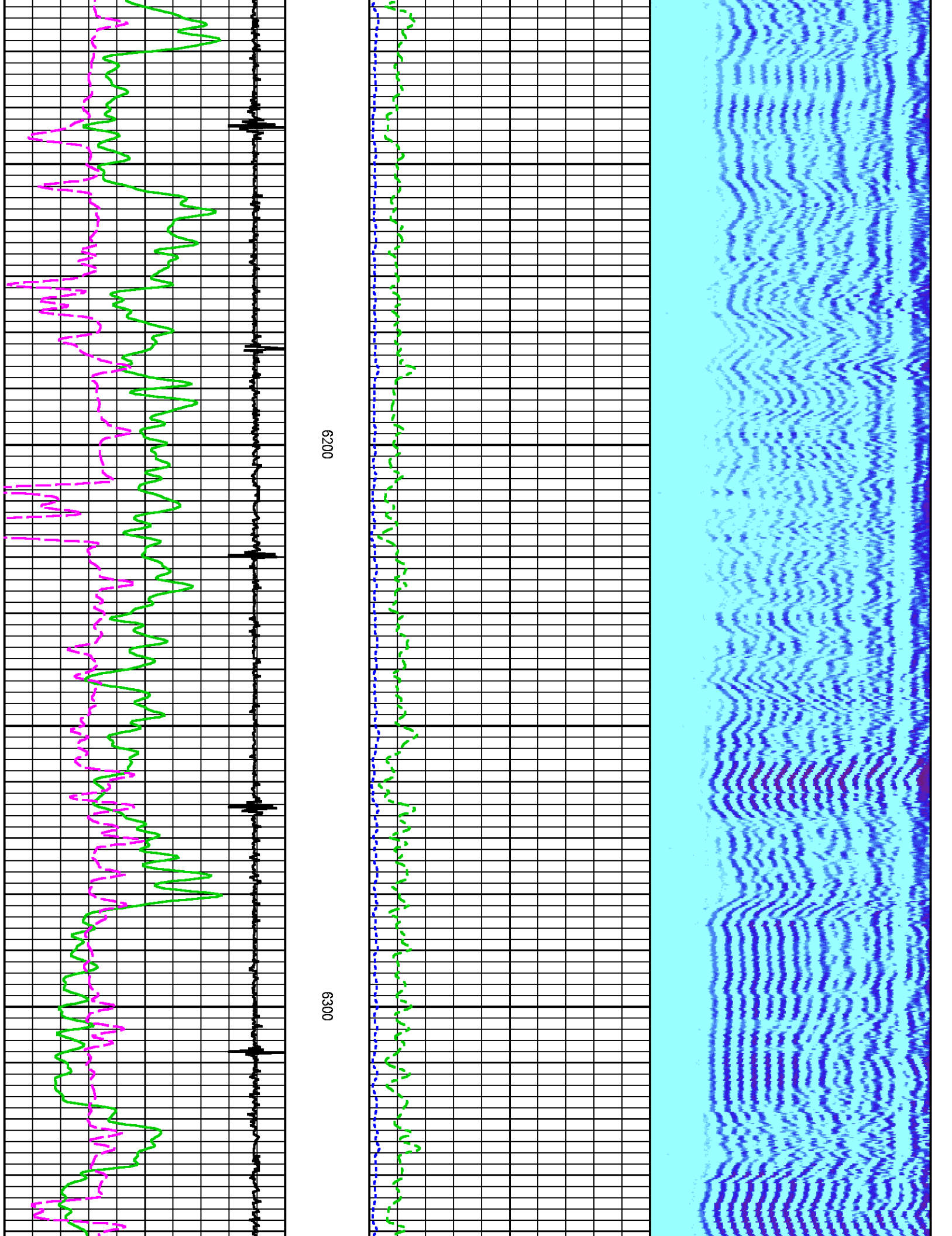


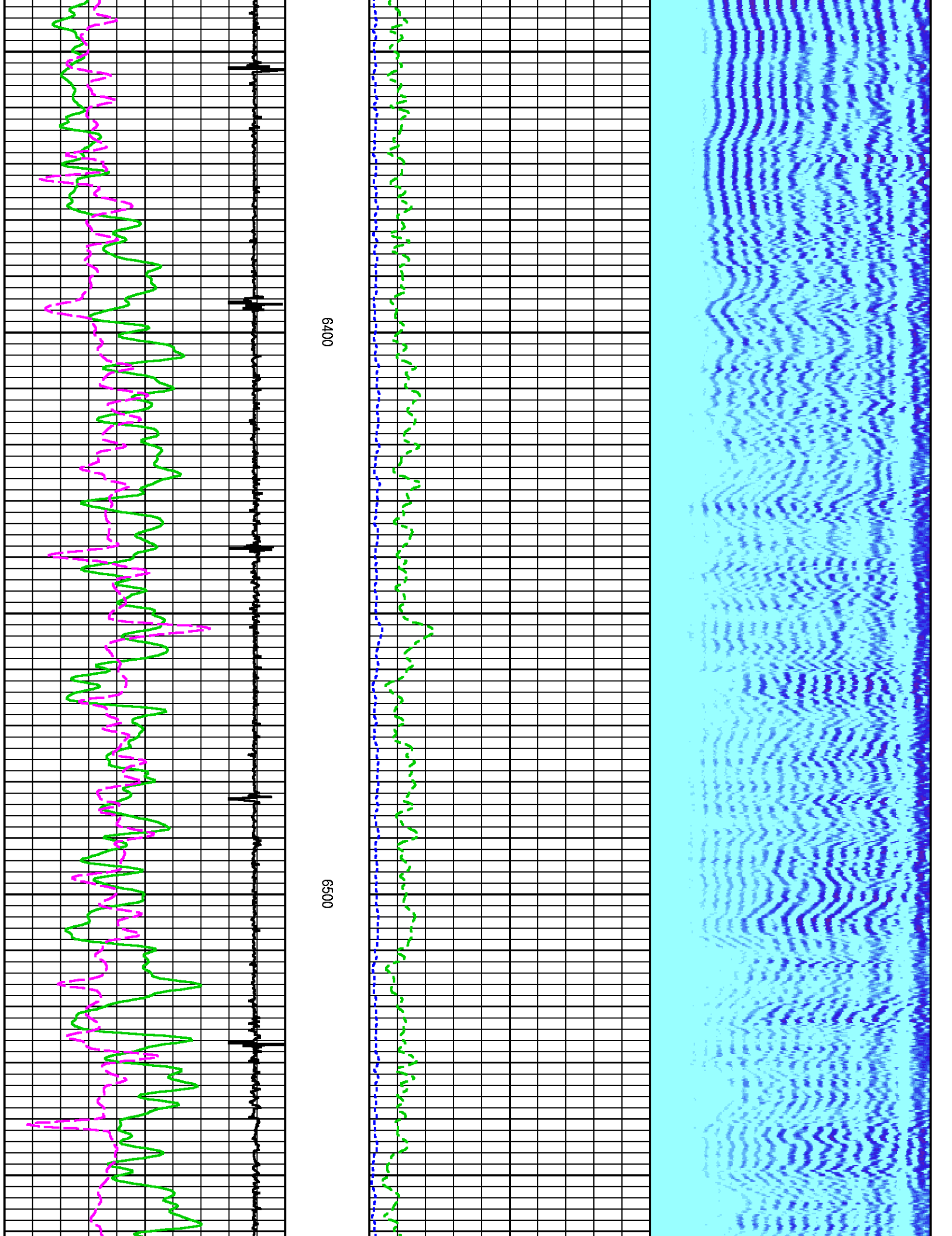


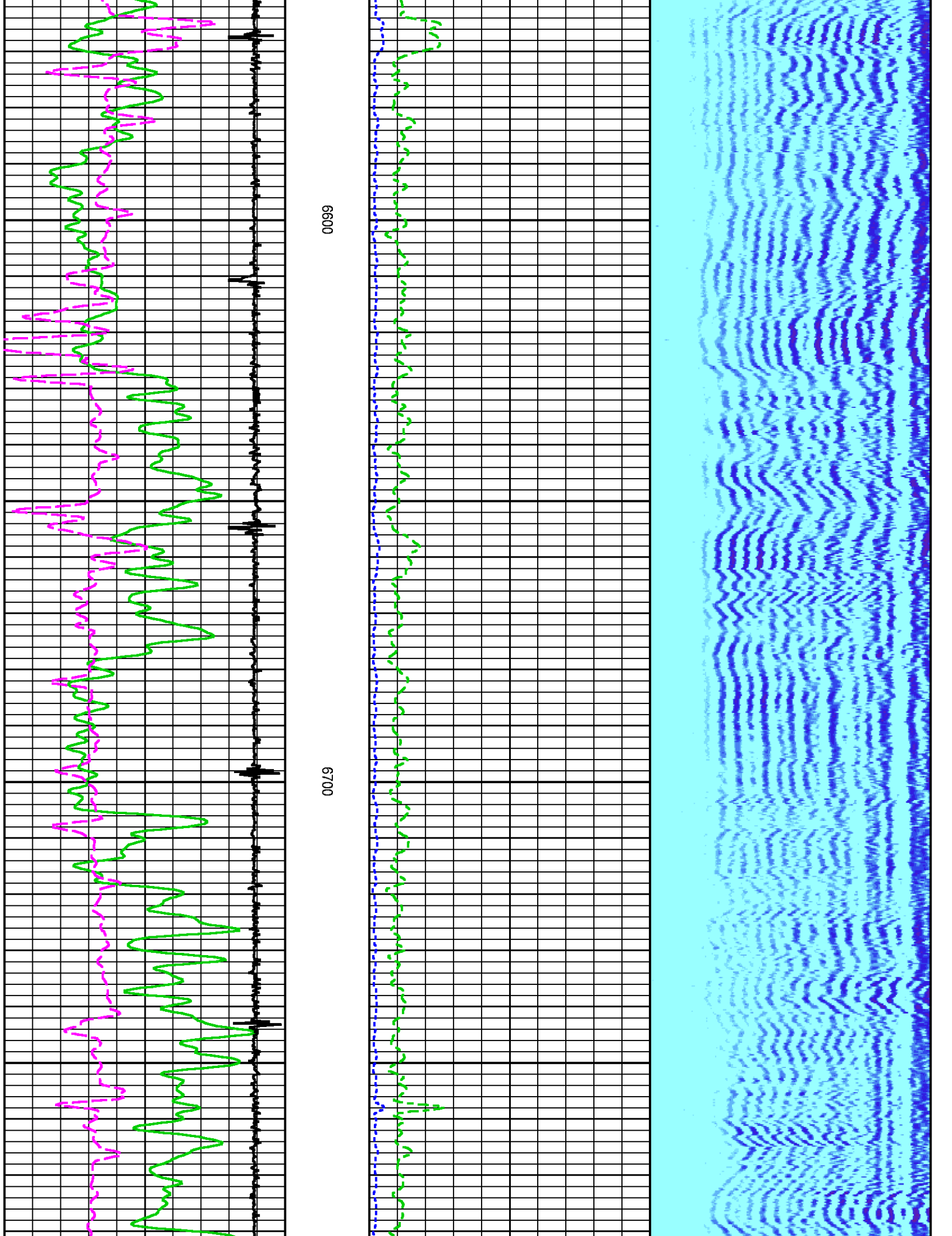


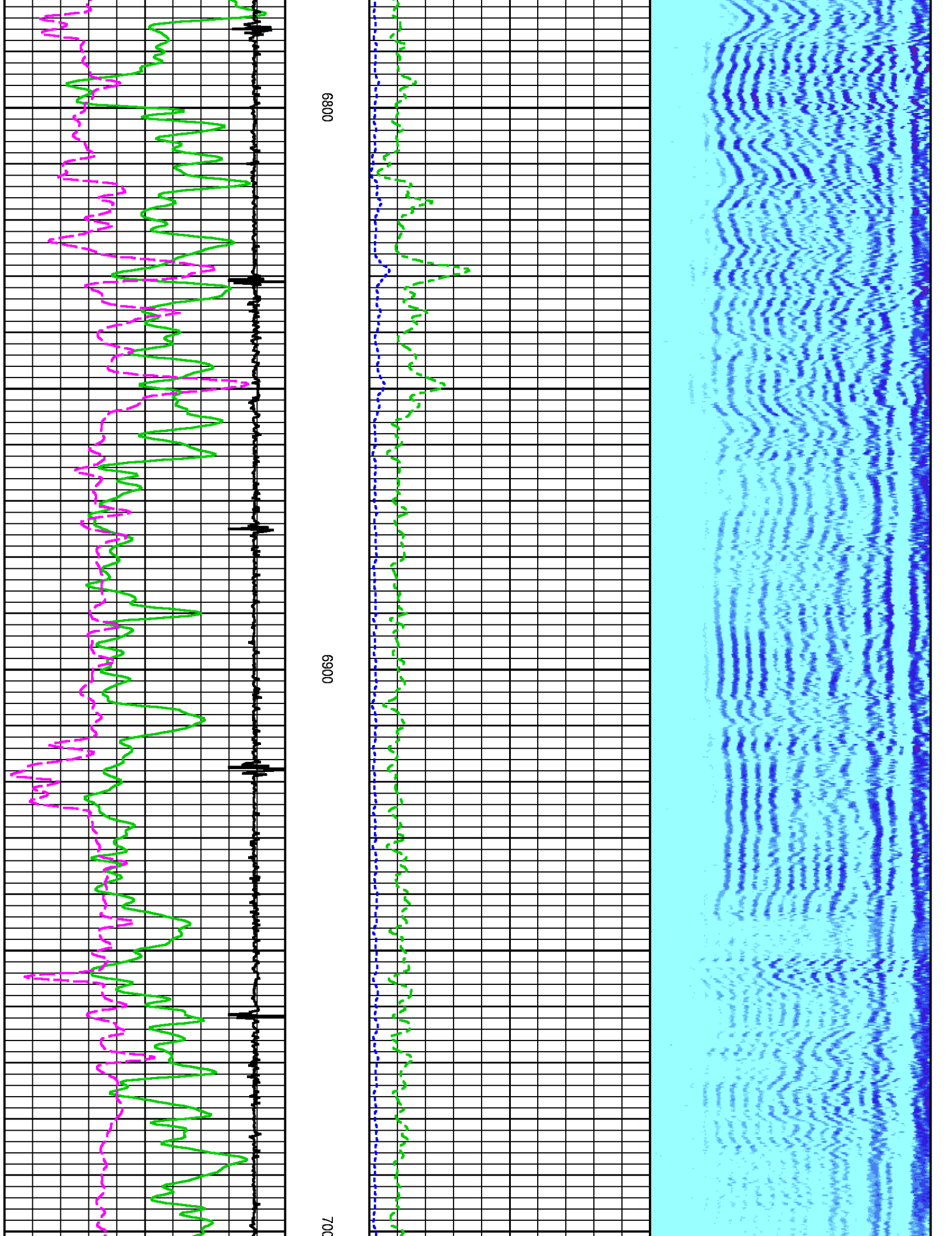


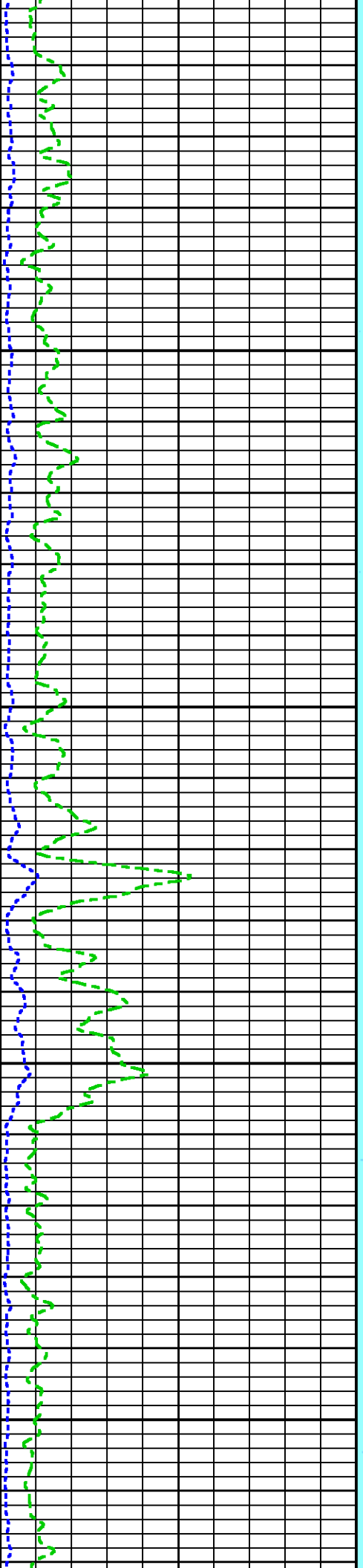
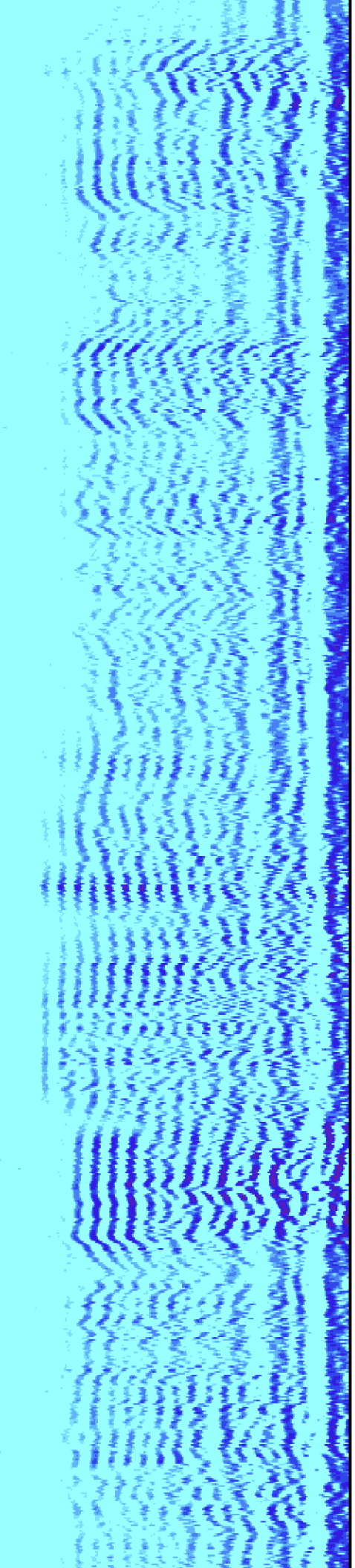




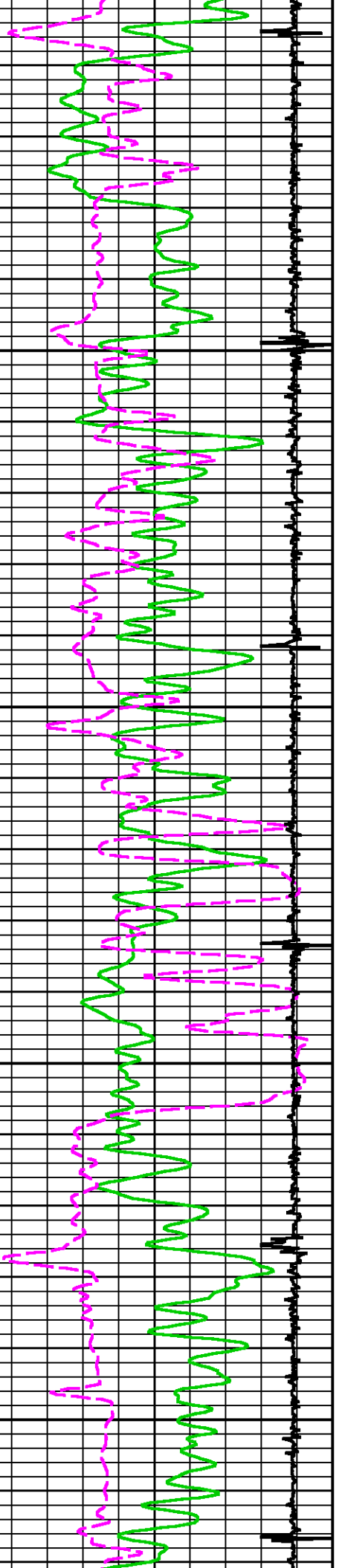


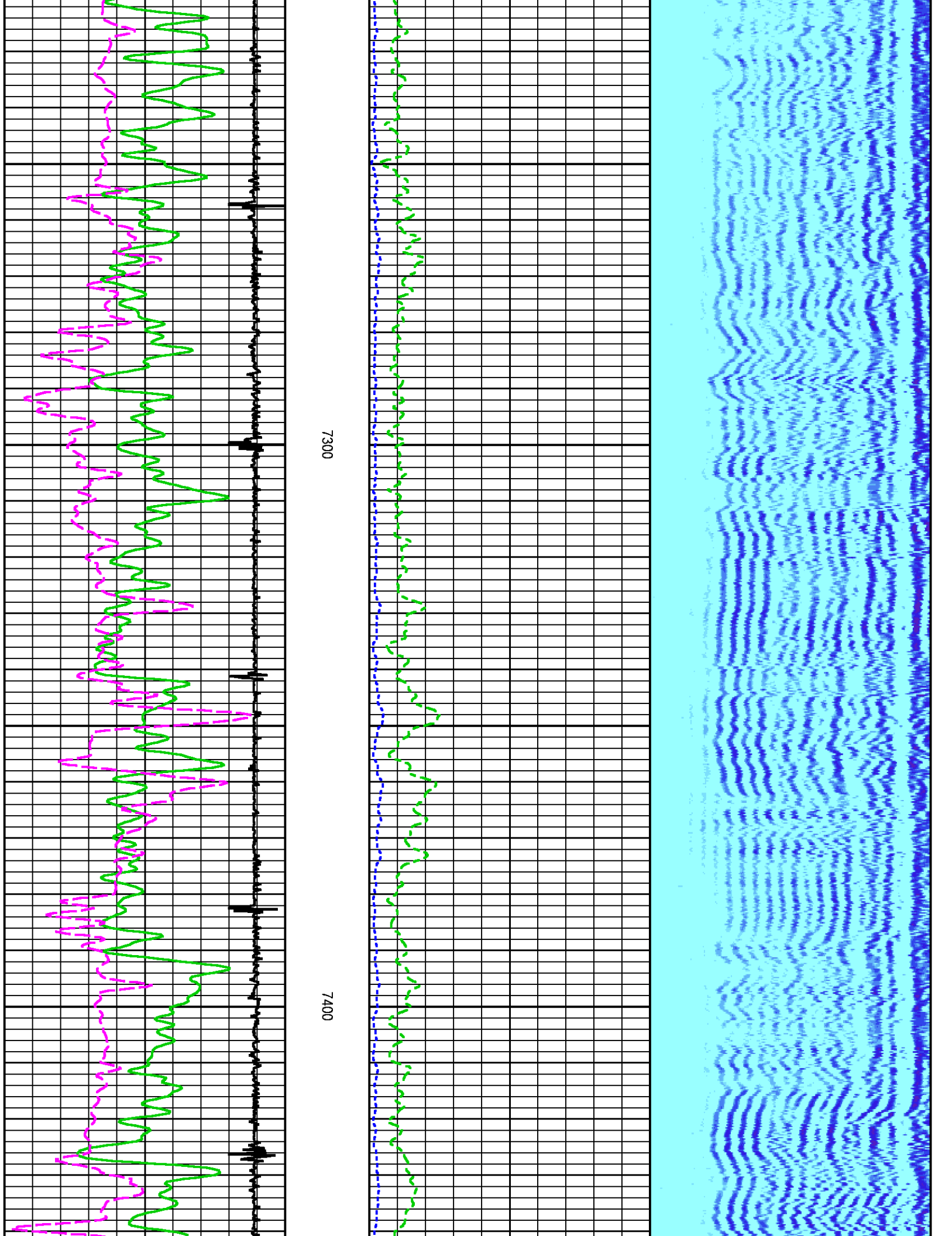


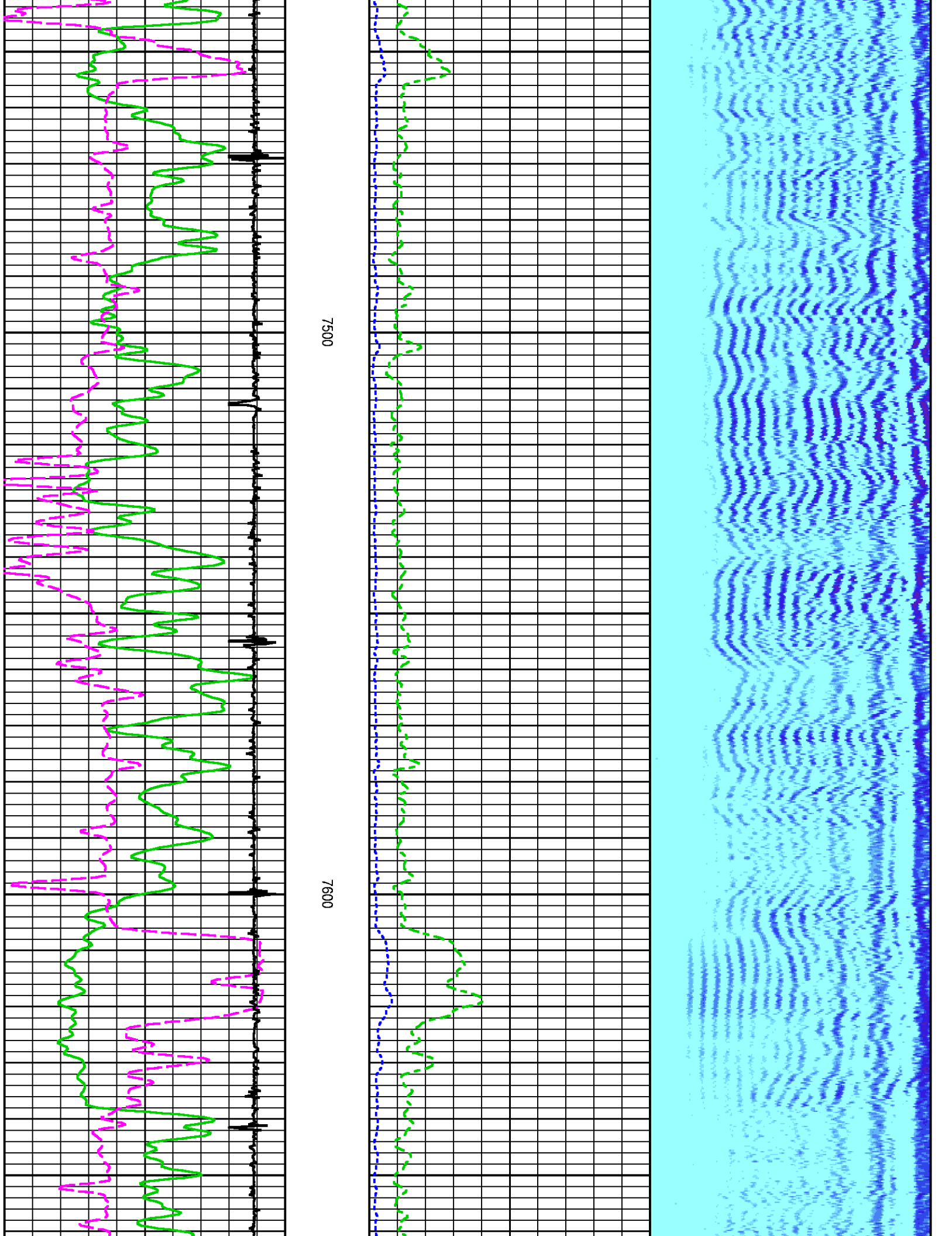


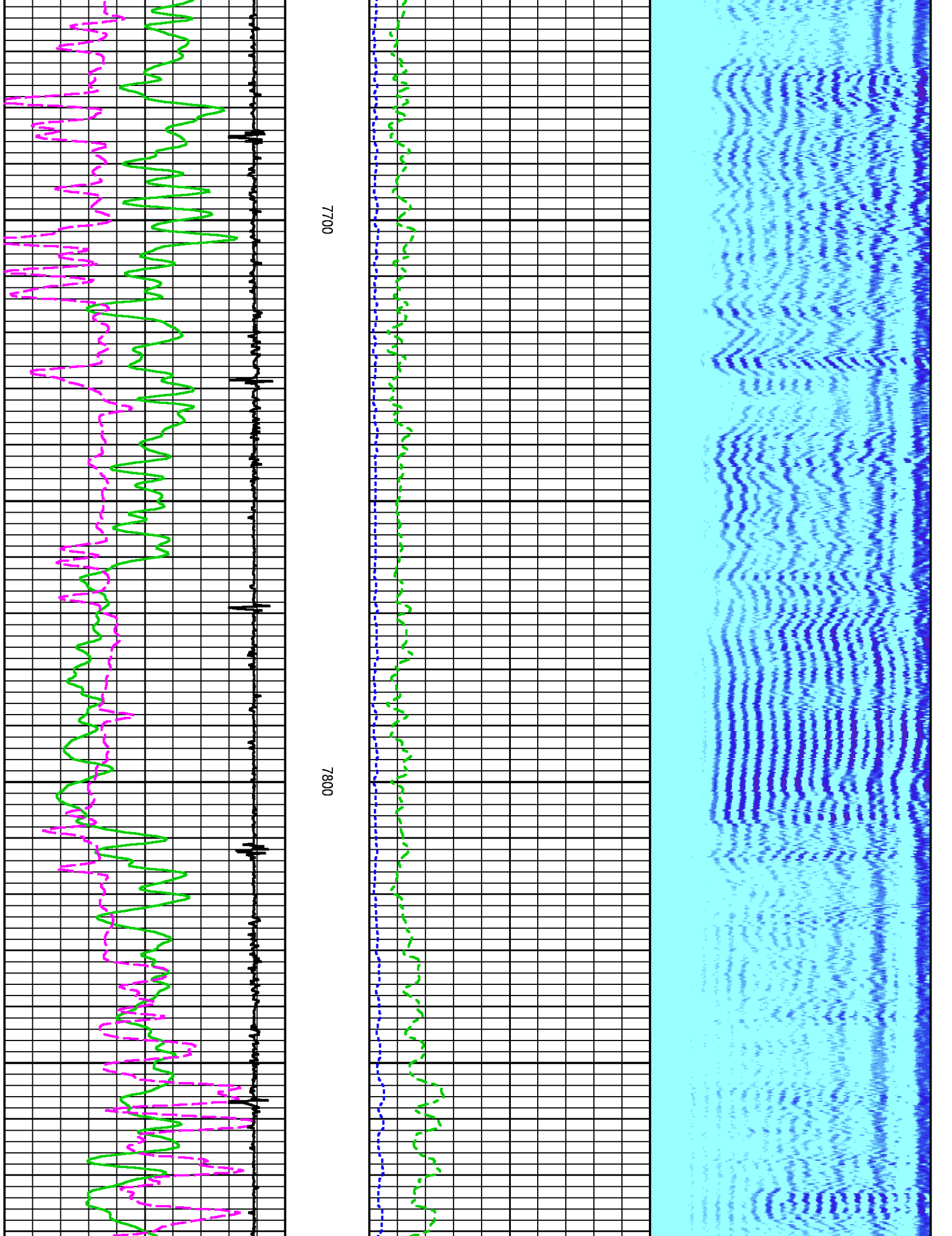


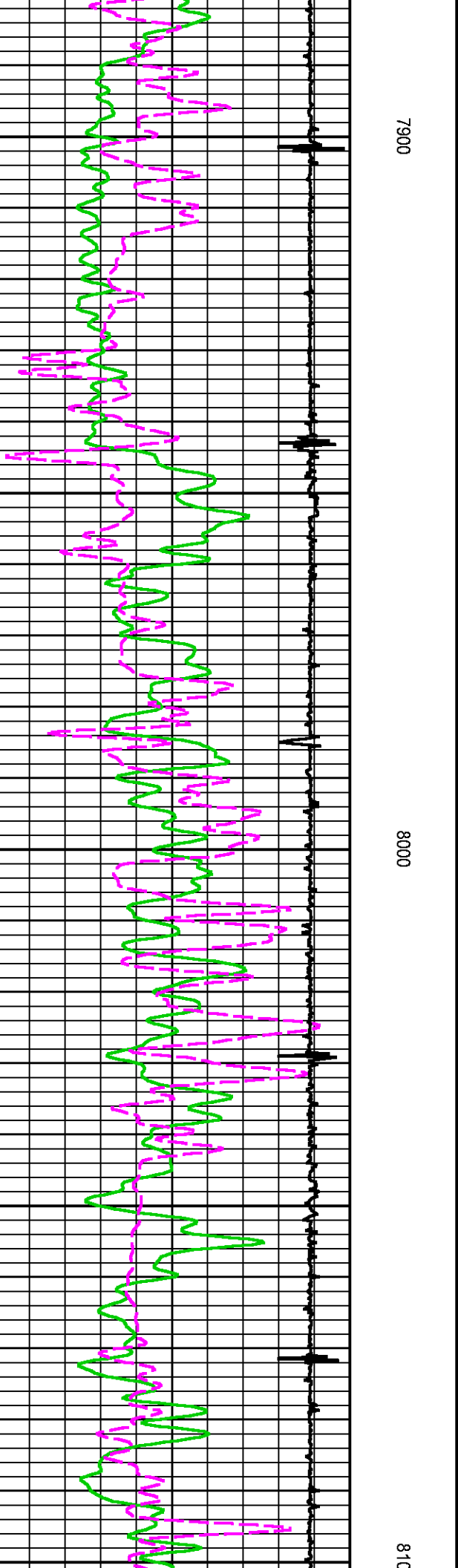
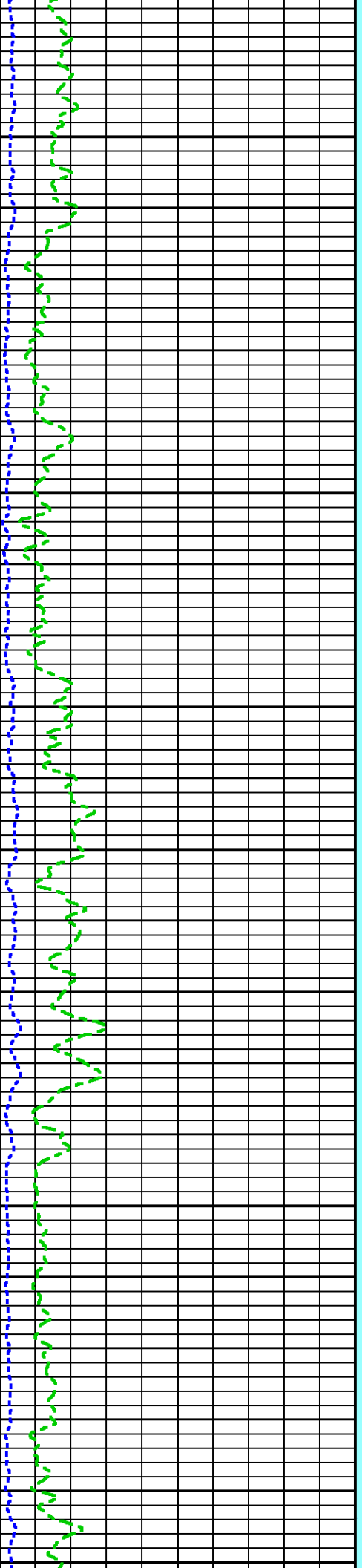
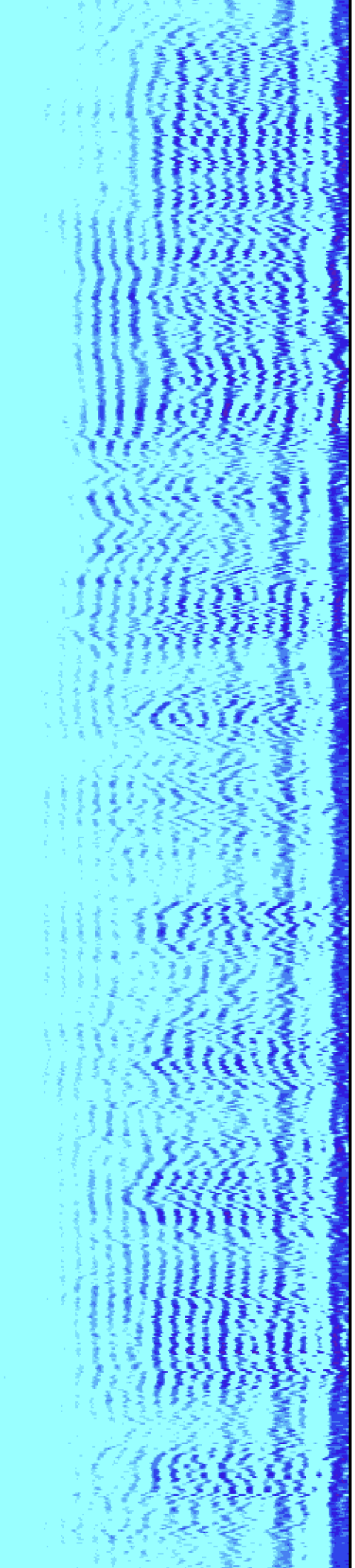
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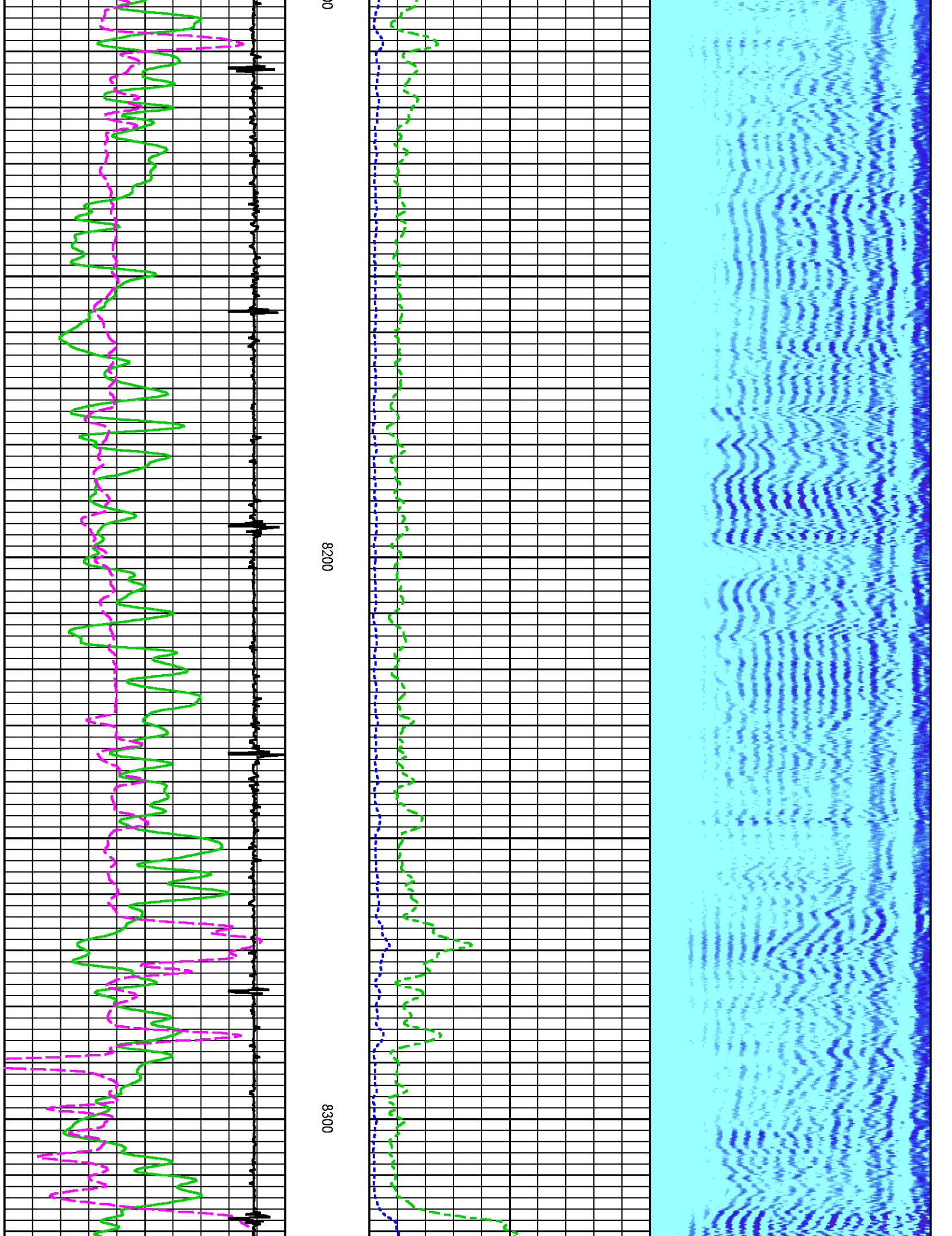


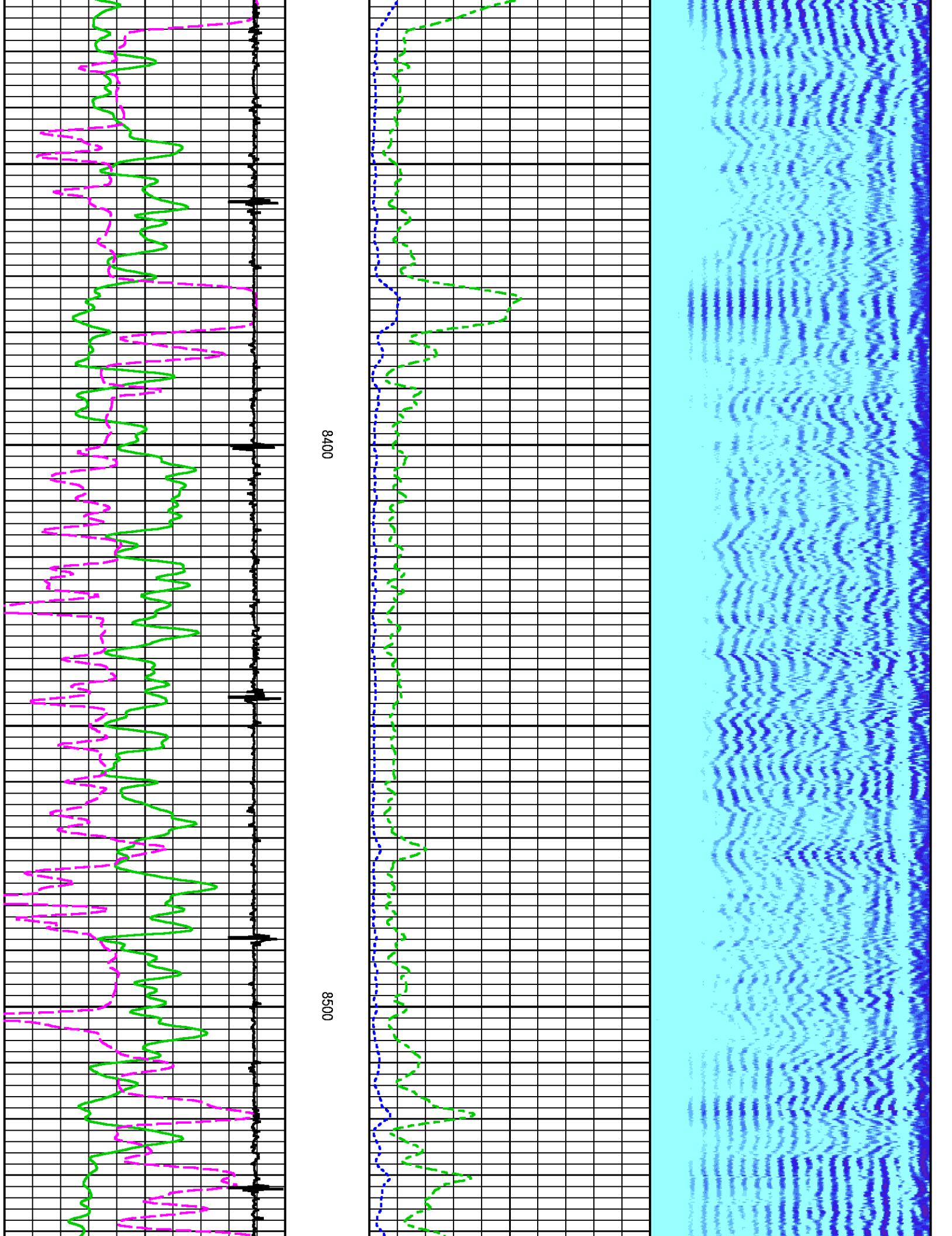


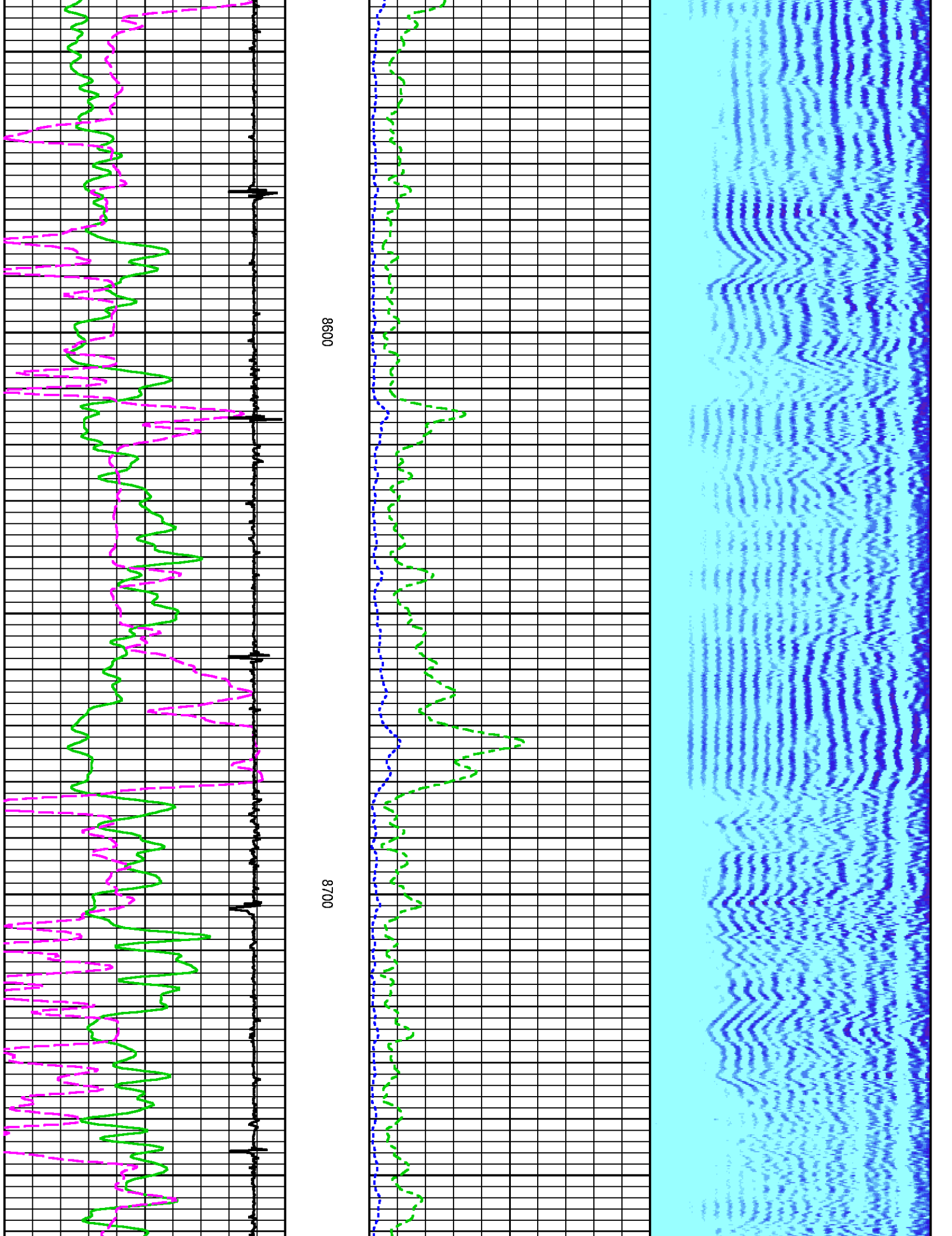


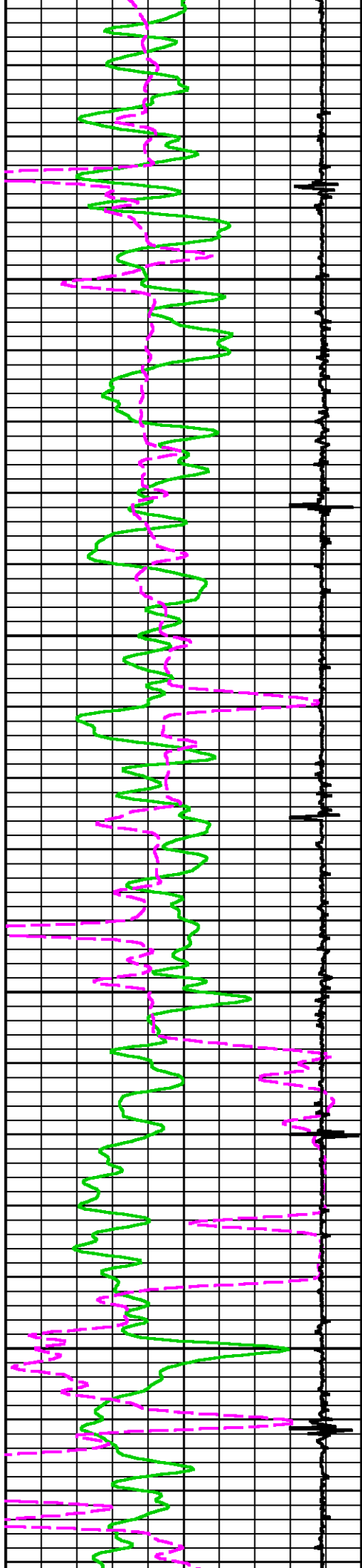






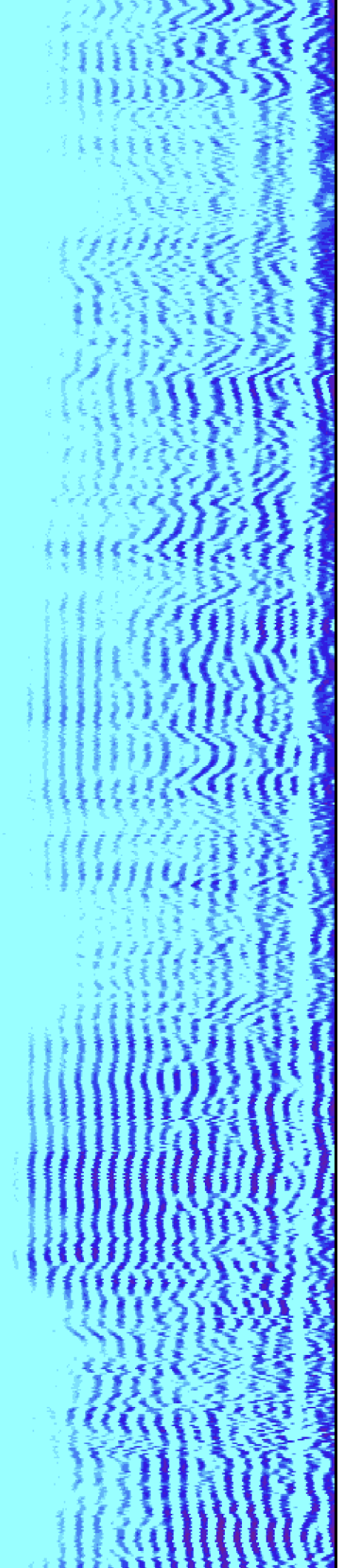
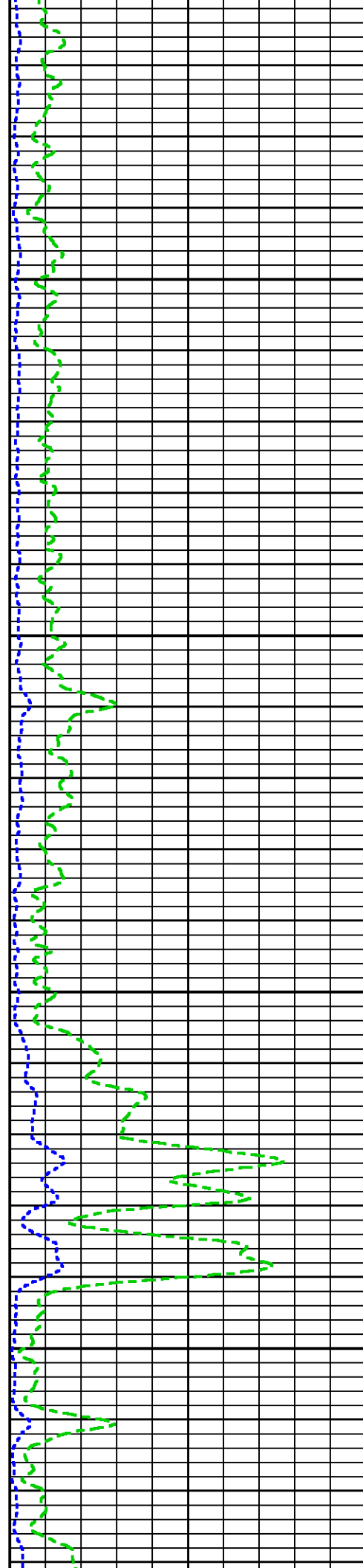


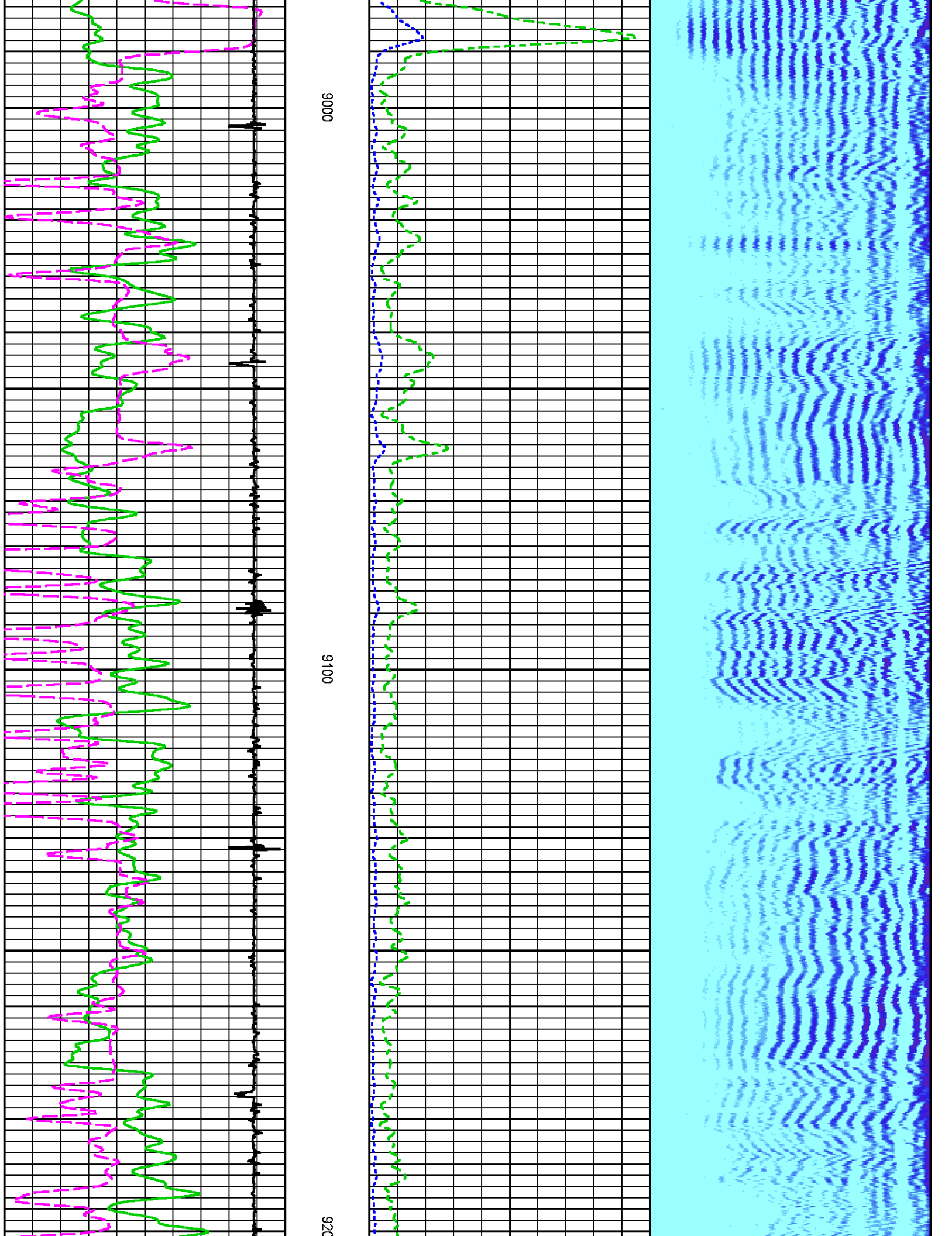


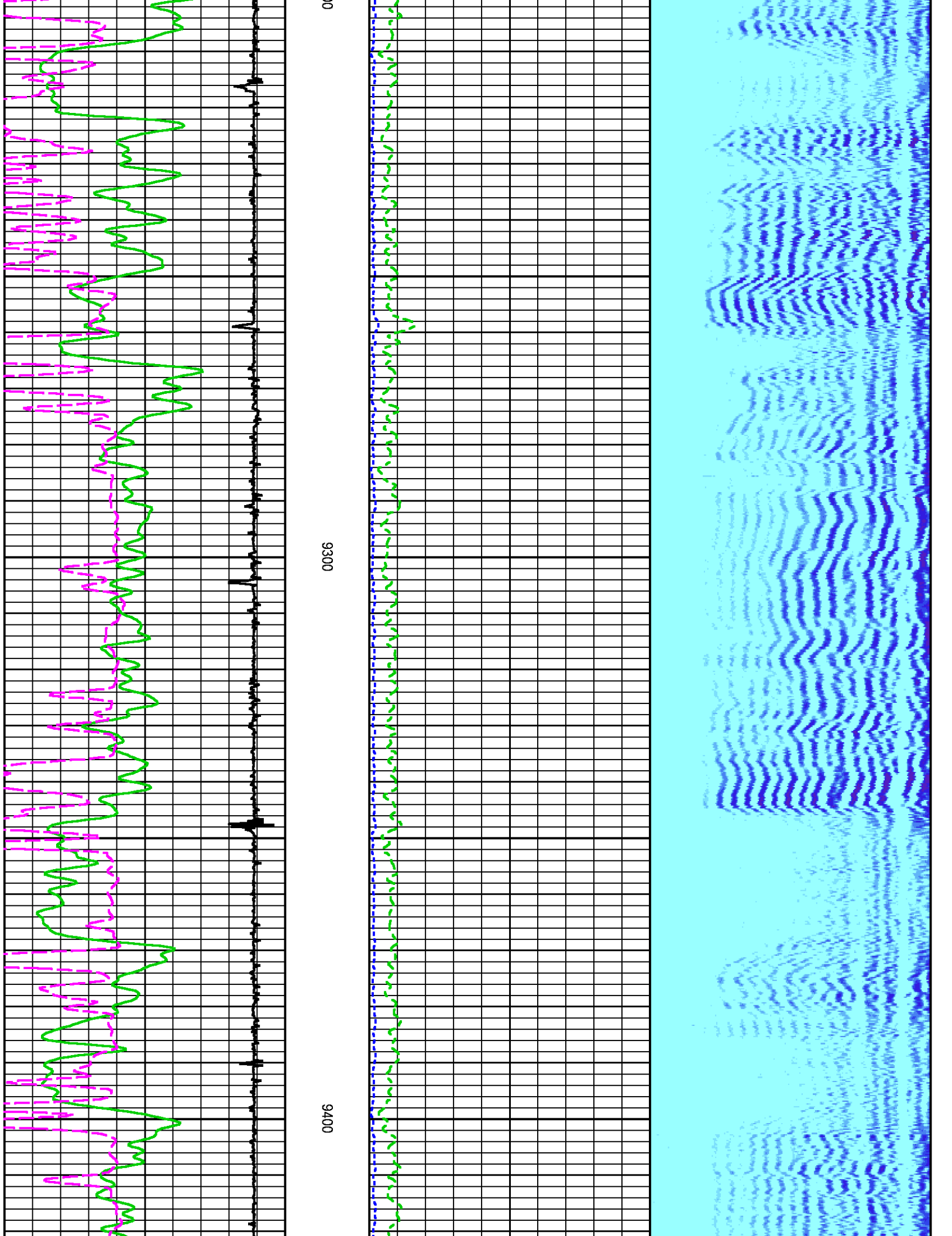


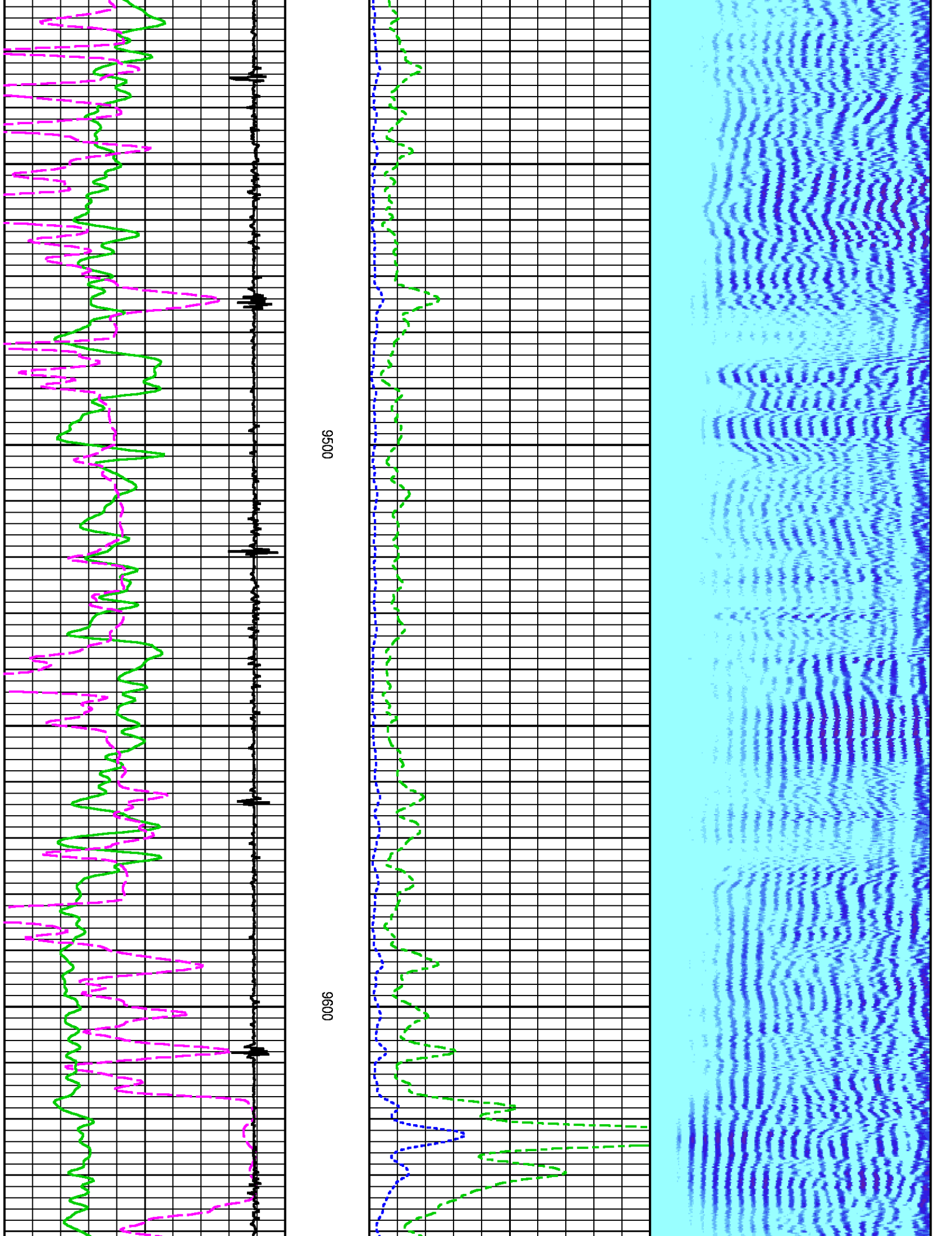
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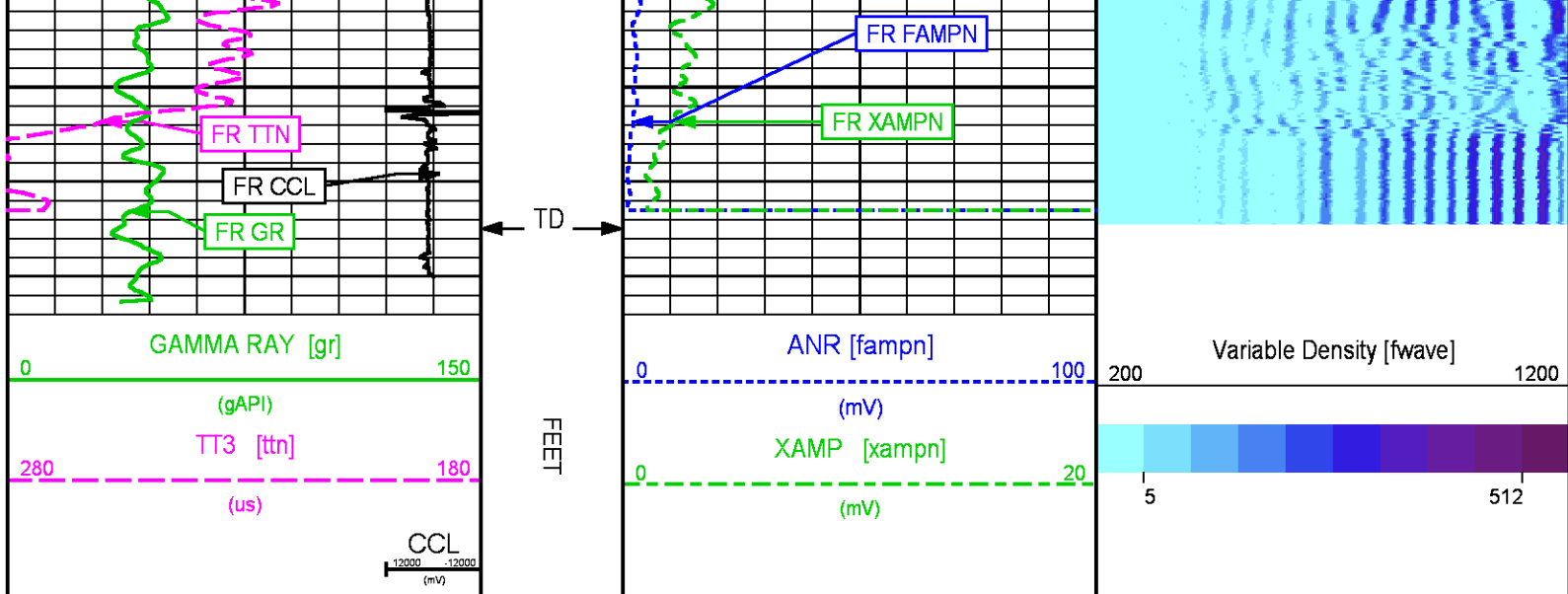
8900











REPEAT LOG 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 9

Plotted: Wed Sep 28 16:53:54 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG_RU_512-7/n012g01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 9339.250 ft BOTTOM DEPTH: 9654.797 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*)	183	us	TOP	BOTTOM
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	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*)	-75	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

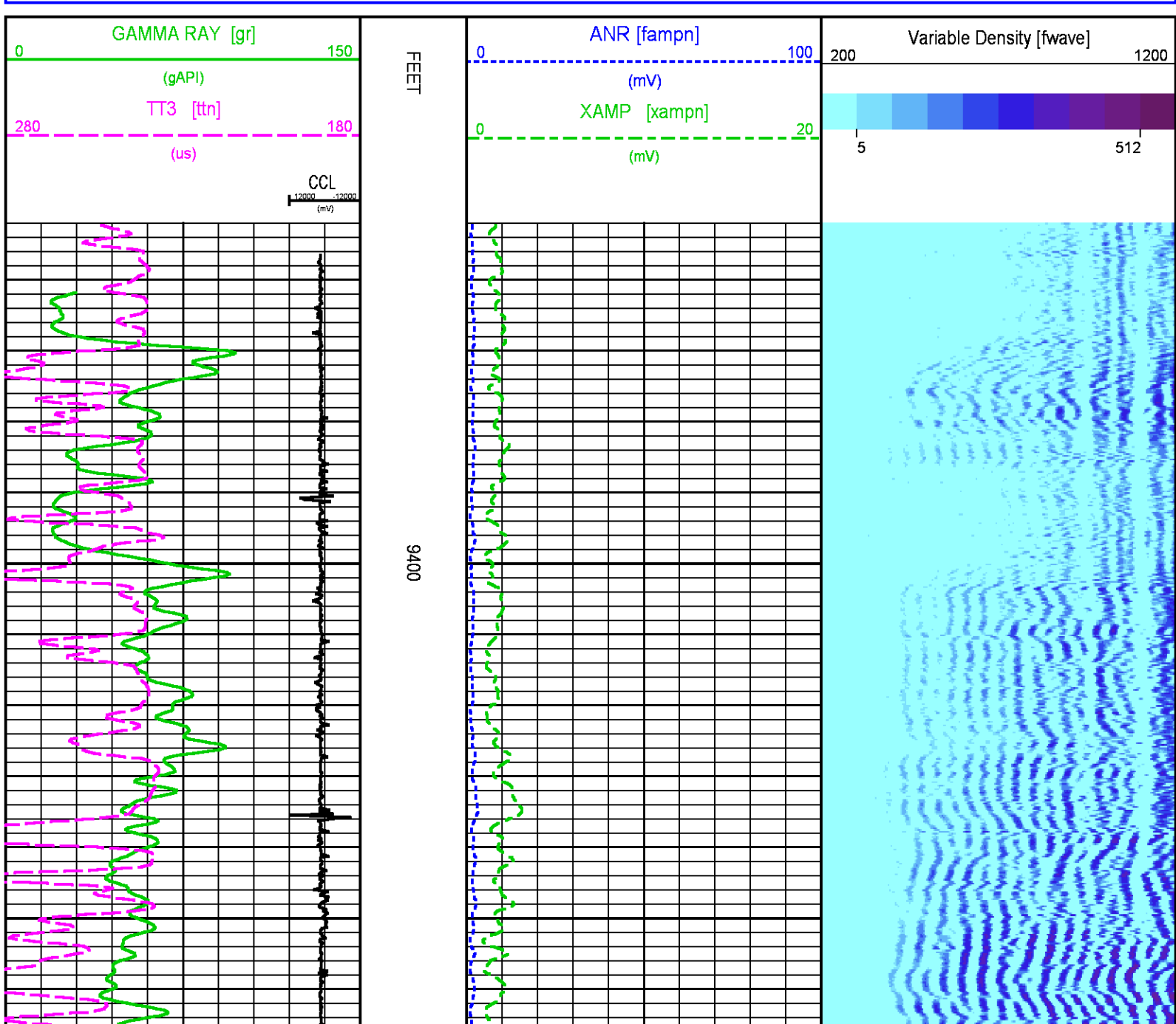
CURVE DESCRIPTION REPORT

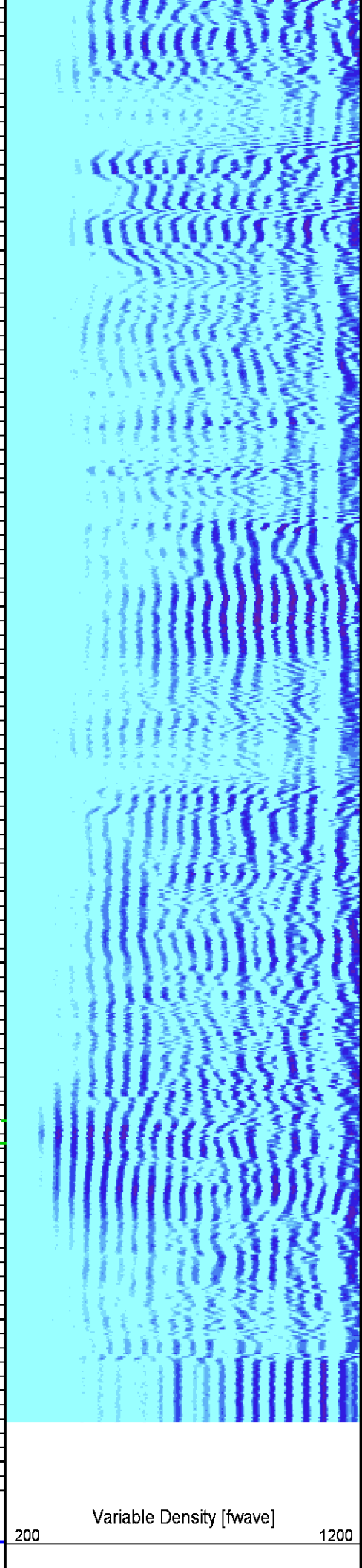
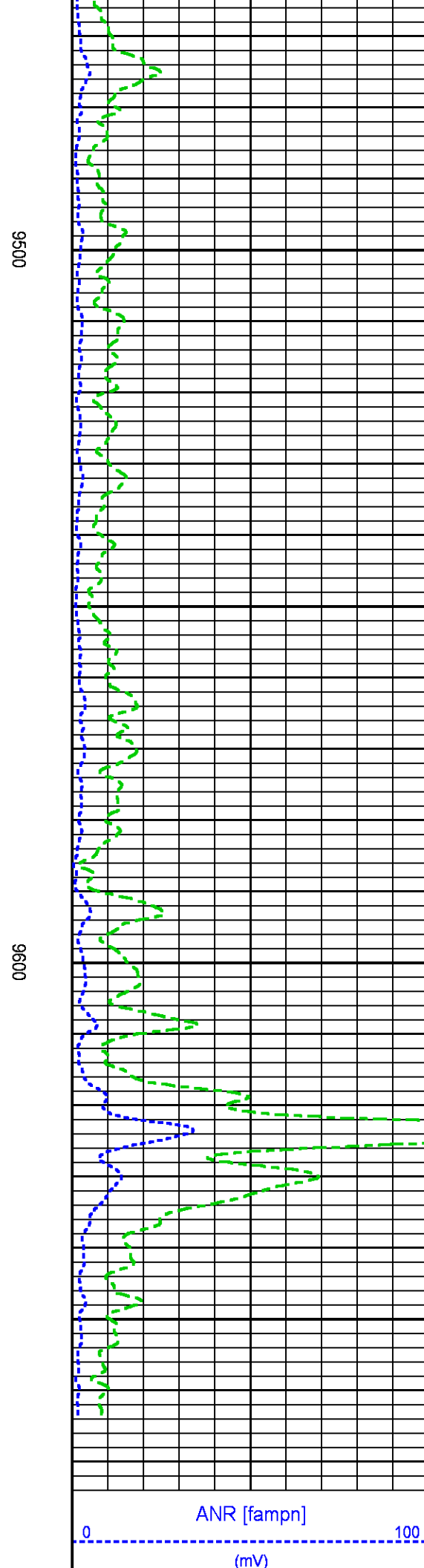
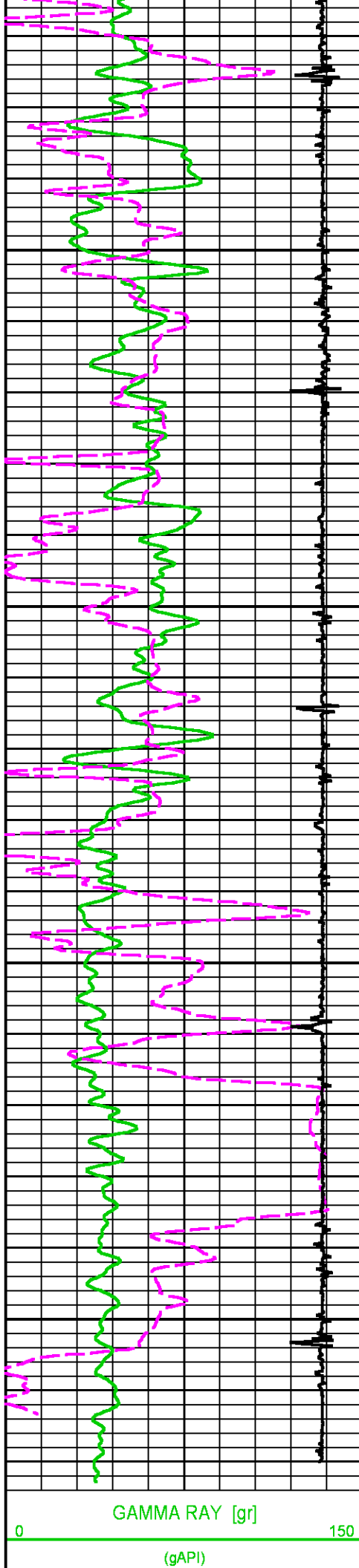
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Sep 28 11:56:33 2016	CASING COLLAR LOCATOR
F1:FAMPN	Sep 28 11:56:33 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 28 11:56:33 2016	FAR WAVE FORM
F1:GR	Sep 28 11:56:33 2016	GAMMA RAY
F1:TTN	Sep 28 11:56:33 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 28 11:56:33 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

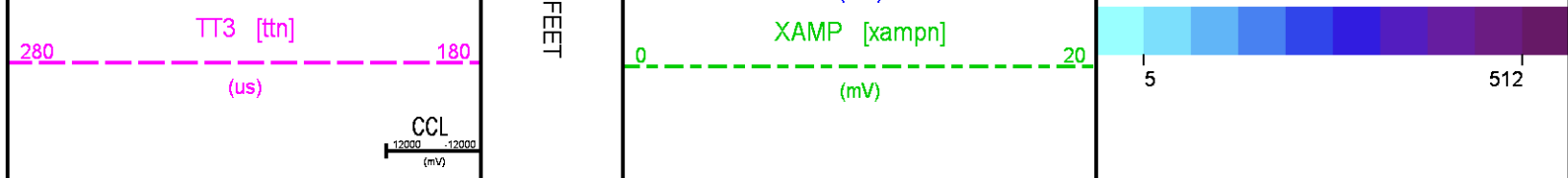
CURVE MEASURE POINT OFFSET

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	: cpu100:ral_cbl+01-REPEAT-512RAL_RPT-5.fvpdf [5"/100' Scale]
Plot Interval	: 9352 - 9674.25 Feet
Data File 1	: F1 : cpu100:/dat1a/TEP_YOUBERG_RU_512-7/512RAL_RPT.xtf
Created On	: Sep 28 11:56:33 2016
Company	: TEP ROCKY MOUNTAIN LLC
Well	: YOUBERG RU 512-7
Field	: RULISON
File Interval	: 9351 - 9675.75 Feet
OCT	: n012g







SECONDARY MAIN 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013

Updates: 1 Patches: 9

Plotted: Wed Sep 28 15:53:42 2016

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/TEP_YOUBERG_RU_512-7/n012g02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: -0.750 ft BOTTOM DEPTH: 9652.000 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 (fgp1*)	177	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	177	us	"	"
	AMP WINDOW START (fgp3*)	180	us	"	"
	AMP WINDOW START (fgp4*)	182	us	"	"
	AMP WINDOW START (fgp5*)	186	us	"	"
	AMP WINDOW START (fgp6*)	186	us	"	"
	AMP WINDOW START (fgp7*)	183	us	"	"
	AMP WINDOW START (fgp8*)	178	us	"	"
	AMP WINDOW START (fgpn*)	183	us	"	"
	AMP WINDOW LENGTH	25	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	160	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*)	-75	us	"	"
	TOOL DELAY (str2*)	-75	us	"	"
	TOOL DELAY (str3*)	-75	us	"	"
	TOOL DELAY (str4*)	-75	us	"	"
	TOOL DELAY (str5*)	-75	us	"	"
	TOOL DELAY (str6*)	-75	us	"	"
	TOOL DELAY (str7*)	-75	us	"	"
	TOOL DELAY (str8*)	-75	us	"	"
	TOOL DELAY (strn*)	-75	us	"	"
BASELINE NOISE (NEAR)	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

PERCENT BOND CEMENT MAP

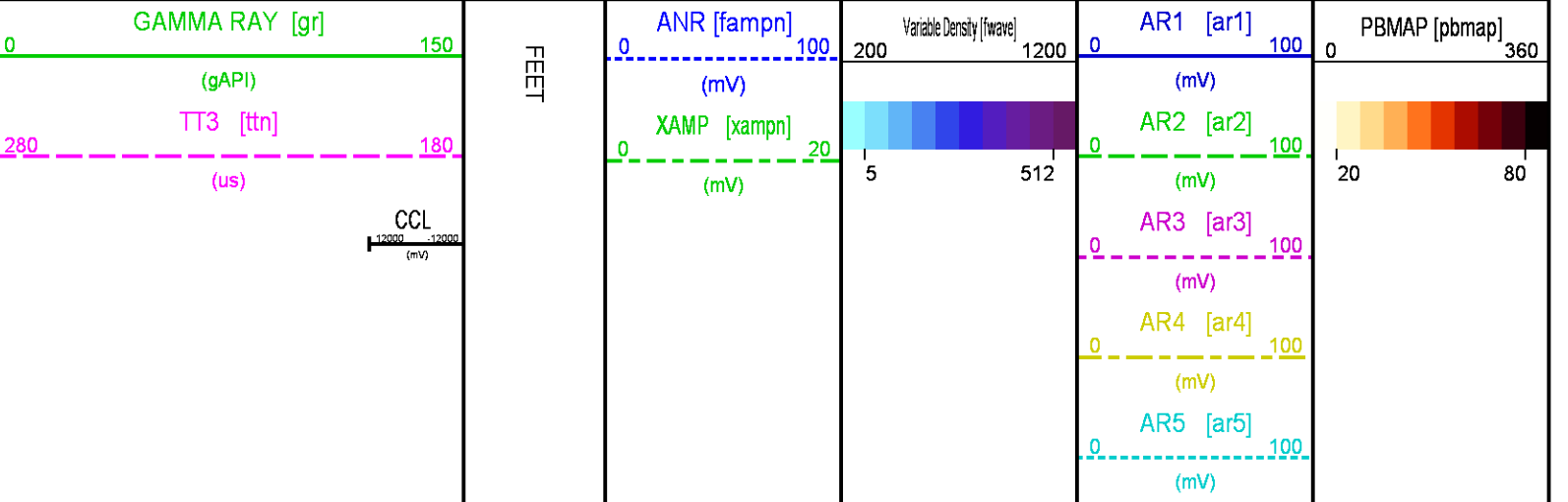
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
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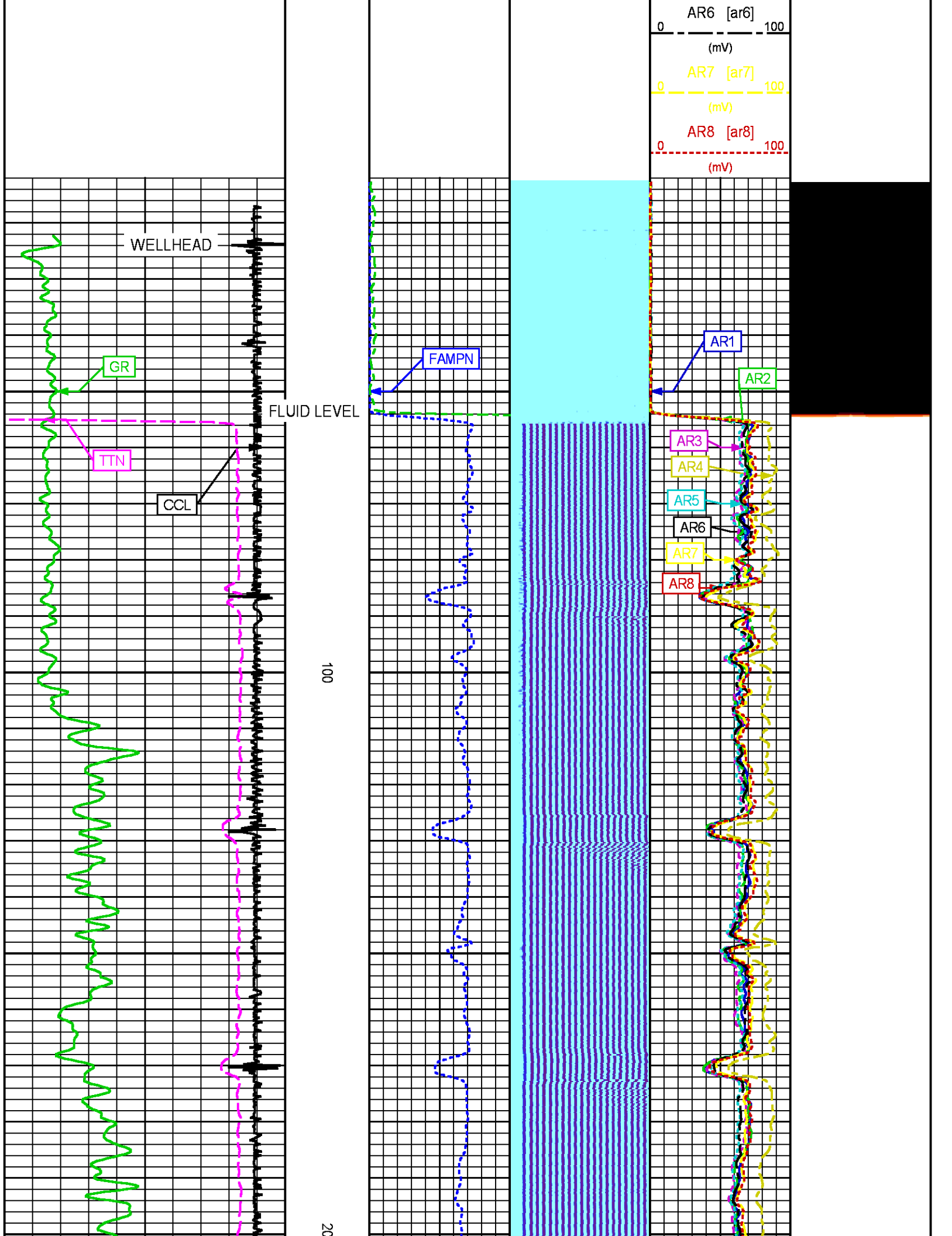
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE AMP REC 8	80	mV	"	"
RAL FULL BOND AMPLITUDE	FULL BOND AMP REC 1	2	mV	"	"
	FULL BOND 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	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R1
F1:AR2	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R2
F1:AR3	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R3
F1:AR4	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R4
F1:AR5	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R5
F1:AR6	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R6
F1:AR7	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R7
F1:AR8	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE T-R8
F1:CCL	Sep 28 12:04:37 2016	CASING COLLAR LOCATOR
F1:FAMPN	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Sep 28 12:04:37 2016	FAR WAVE FORM
F1:GR	Sep 28 12:04:37 2016	GAMMA RAY
F1:PBMAP	Sep 28 12:04:37 2016	PERCENT BOND CEMENT MAP
F1:TTN	Sep 28 12:04:37 2016	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Sep 28 12:04:37 2016	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

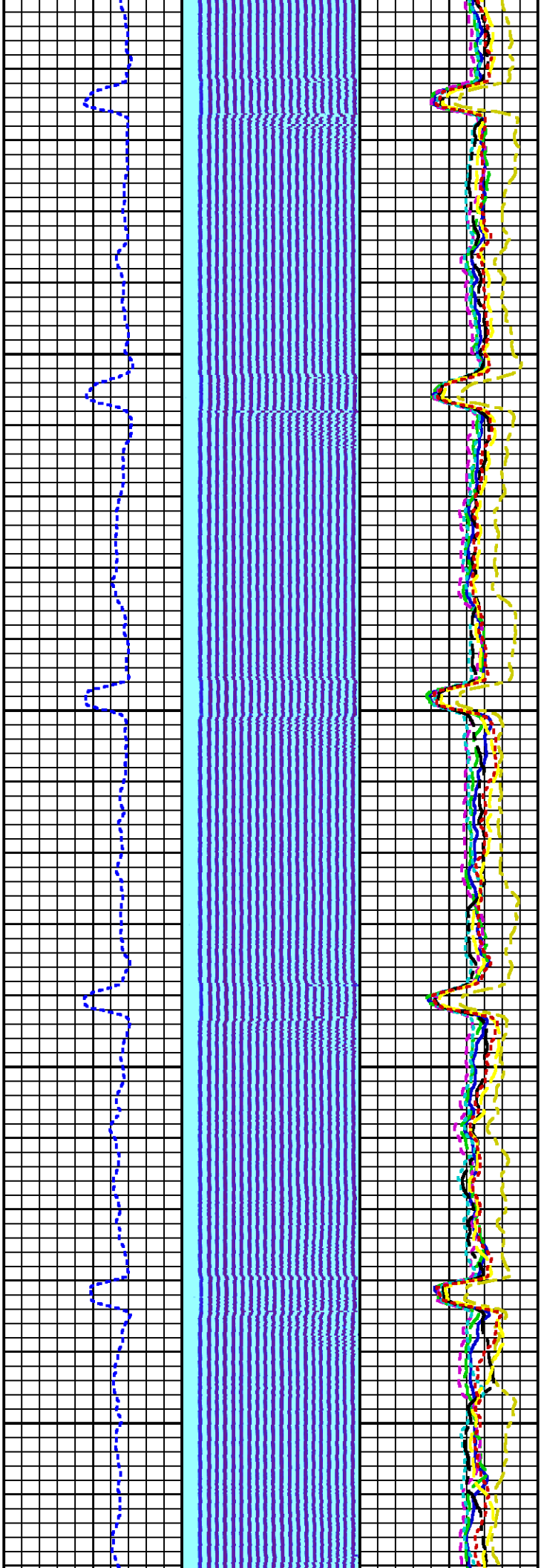
CURVE MEASURE POINT OFFSET							
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
AR1	11.25	AR5	11.25	CCL	5.75	XAMPN	11.25
AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

Presentation	: cpu100:ral_all+01-SECONDARY-512RAL_MN-5.fvpdf [5"/100' Scale]
Plot Interval	: 12.5 - 9674.5 Feet
Data File 1	: F1 : cpu100:/dat1a/TEP_YOUBERG_RU_512-7/512RAL_MN.xtf
Created On	: Sep 28 12:04:37 2016
Company	: TEP ROCKY MOUNTAIN LLC
Well	: YOUBERG RU 512-7
Field	: RULISON
File Interval	: 11.5 - 9675.75 Feet
OCT	: n012g

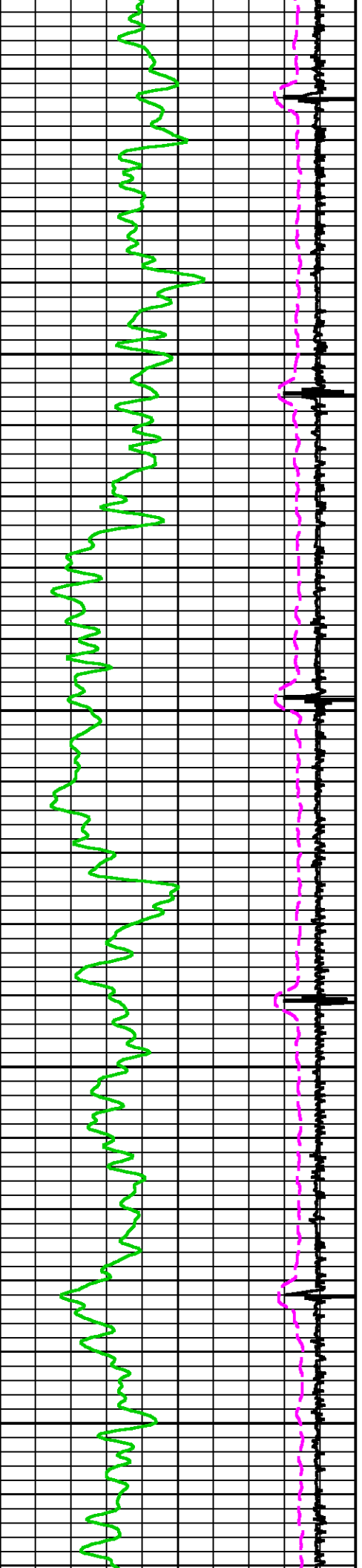


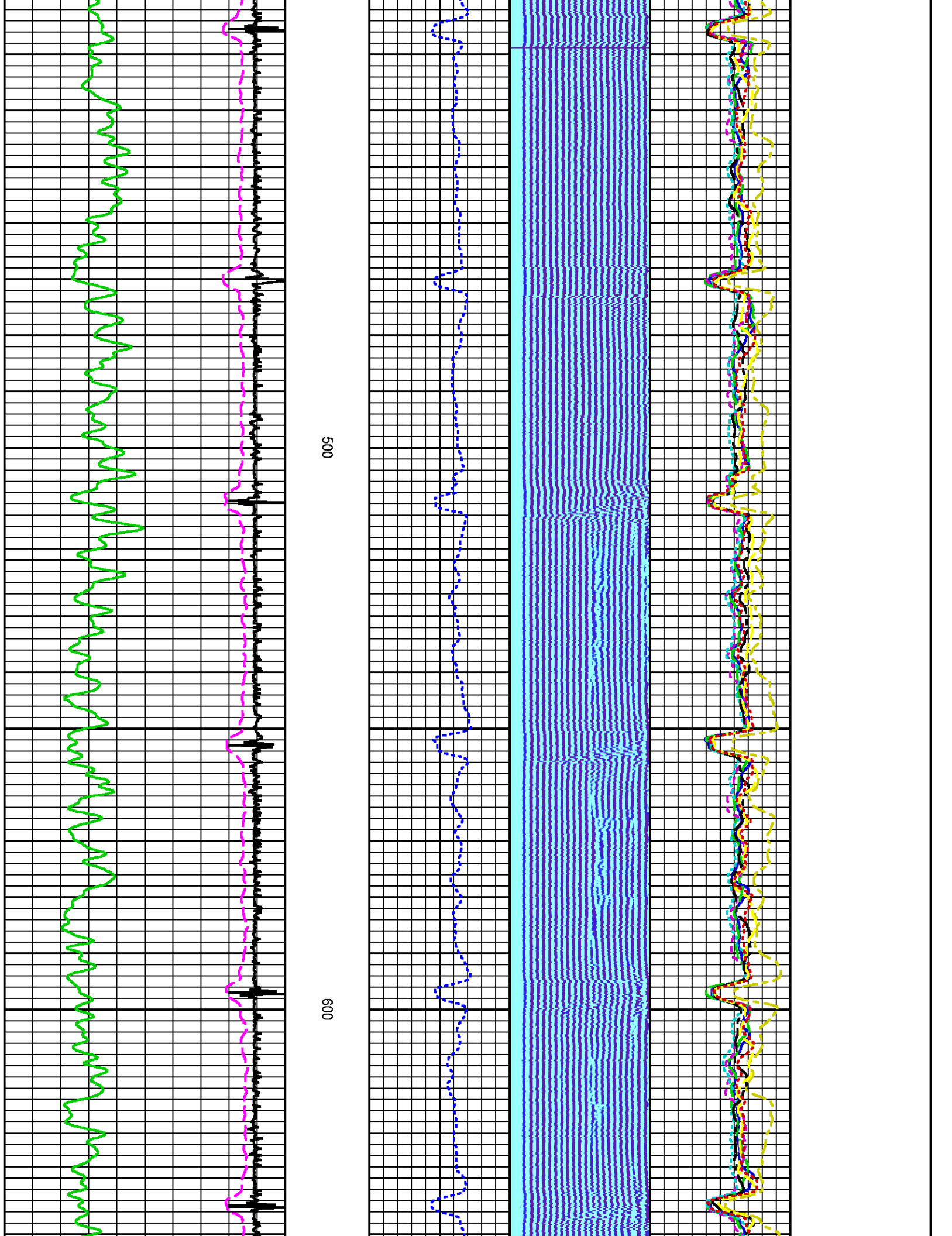


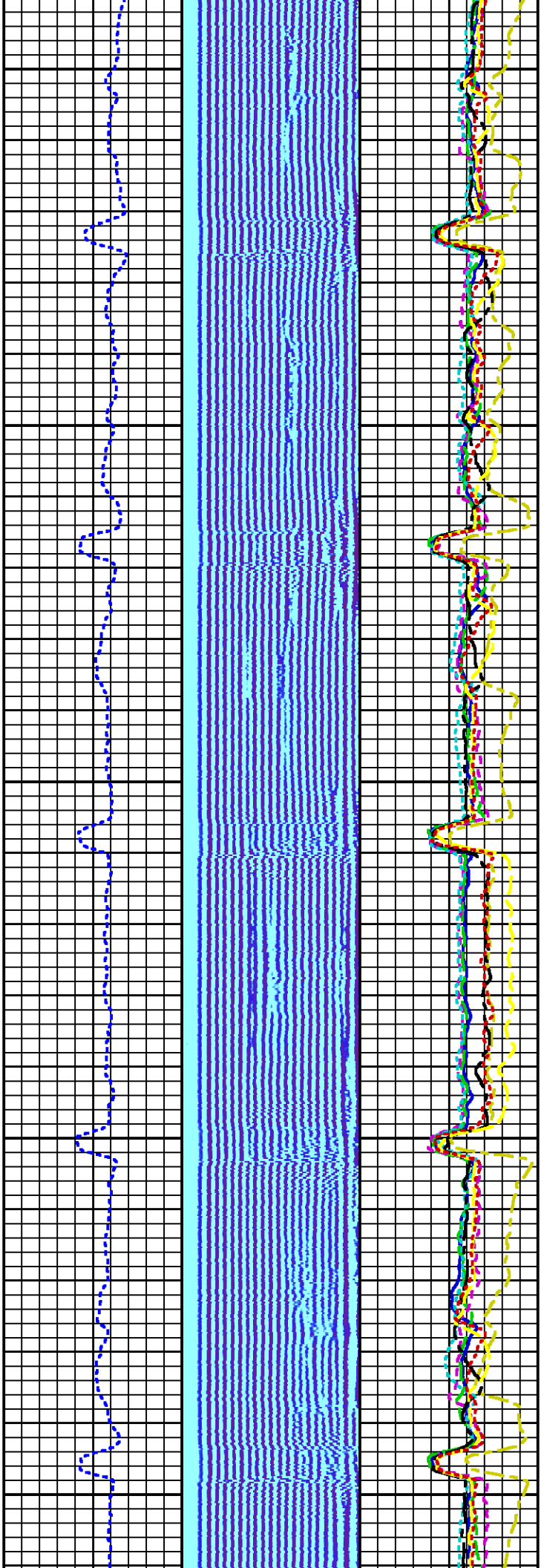
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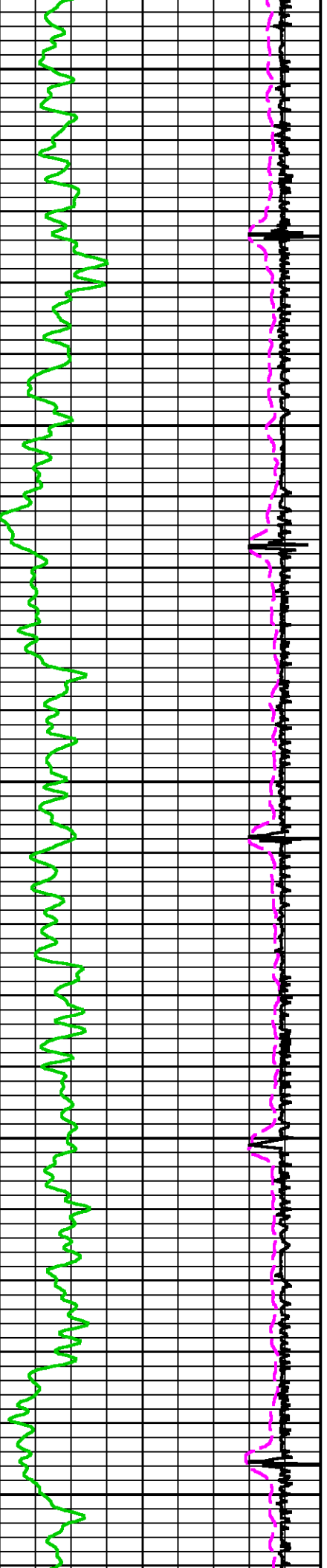


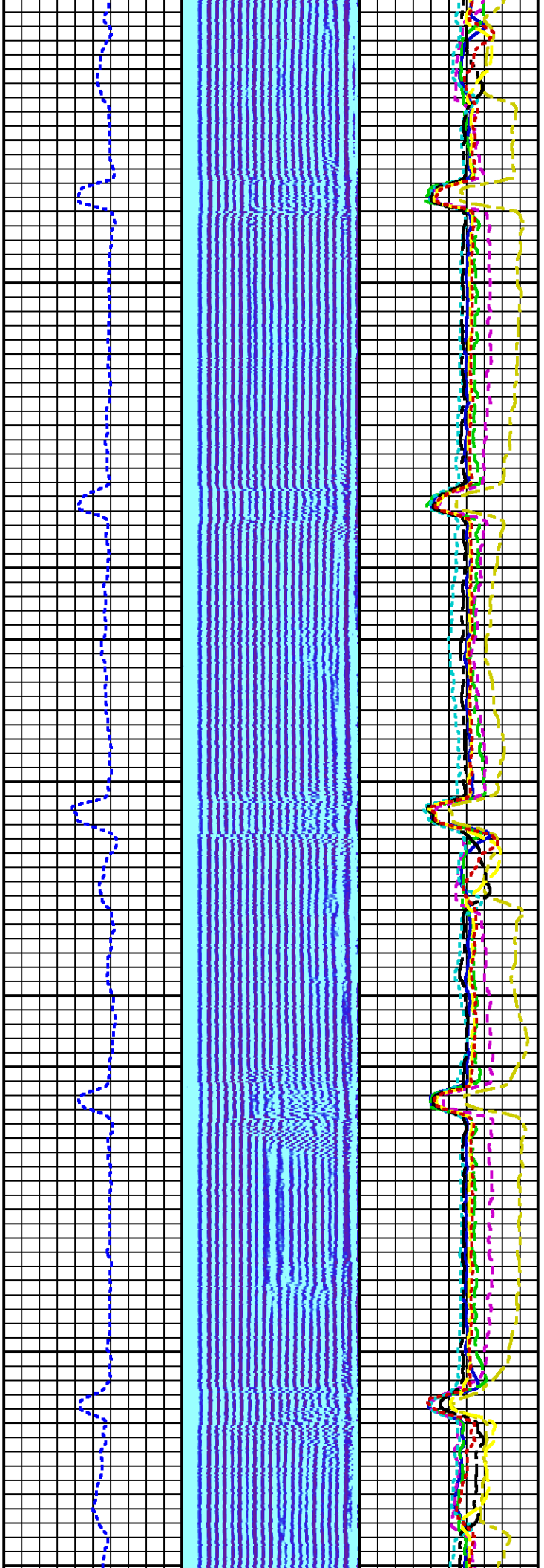




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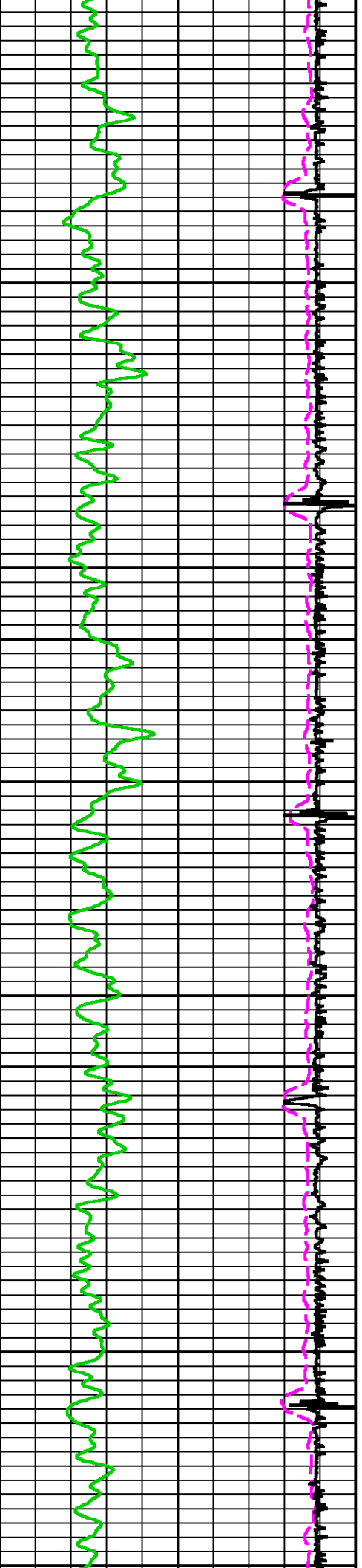
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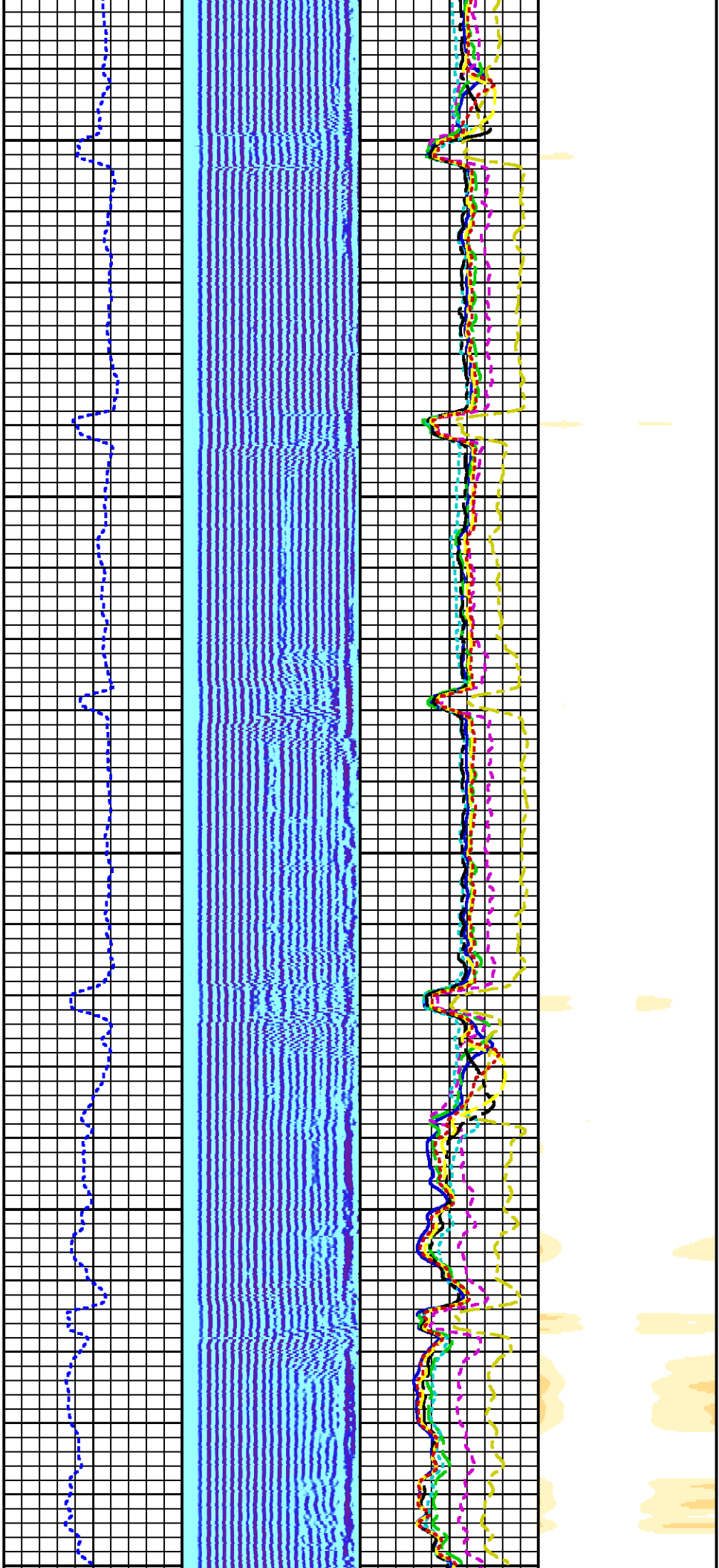




900

1000

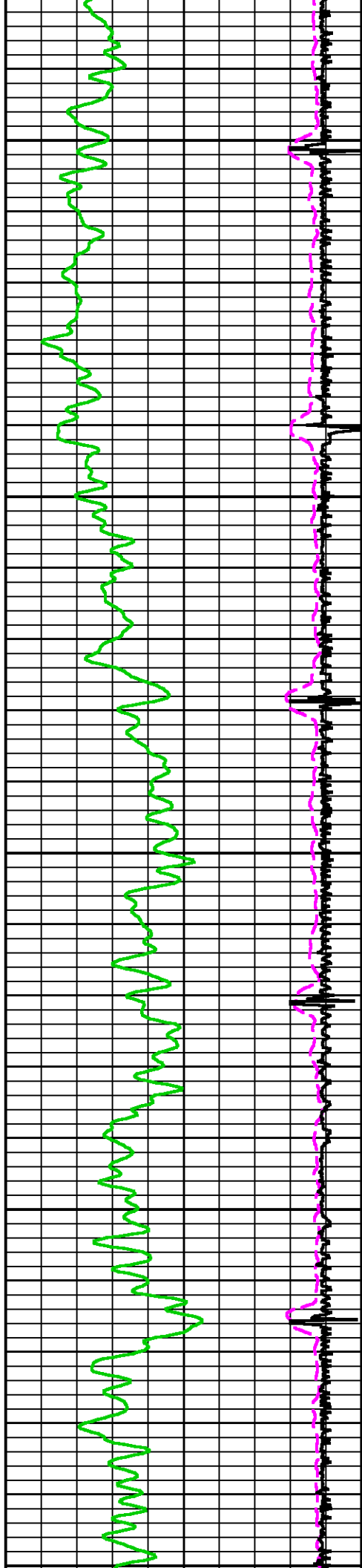


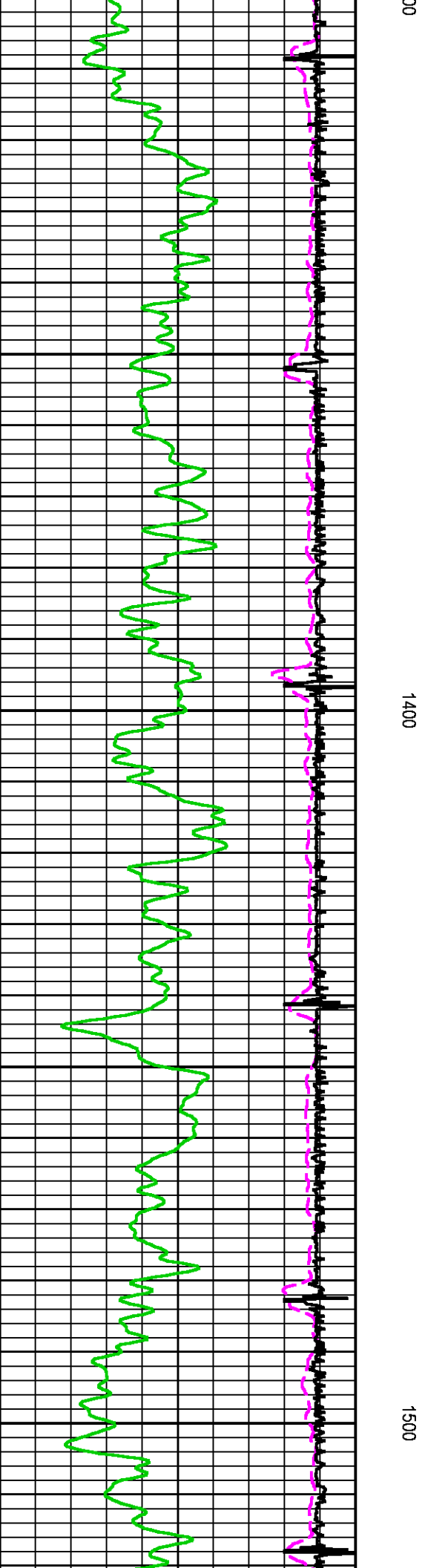
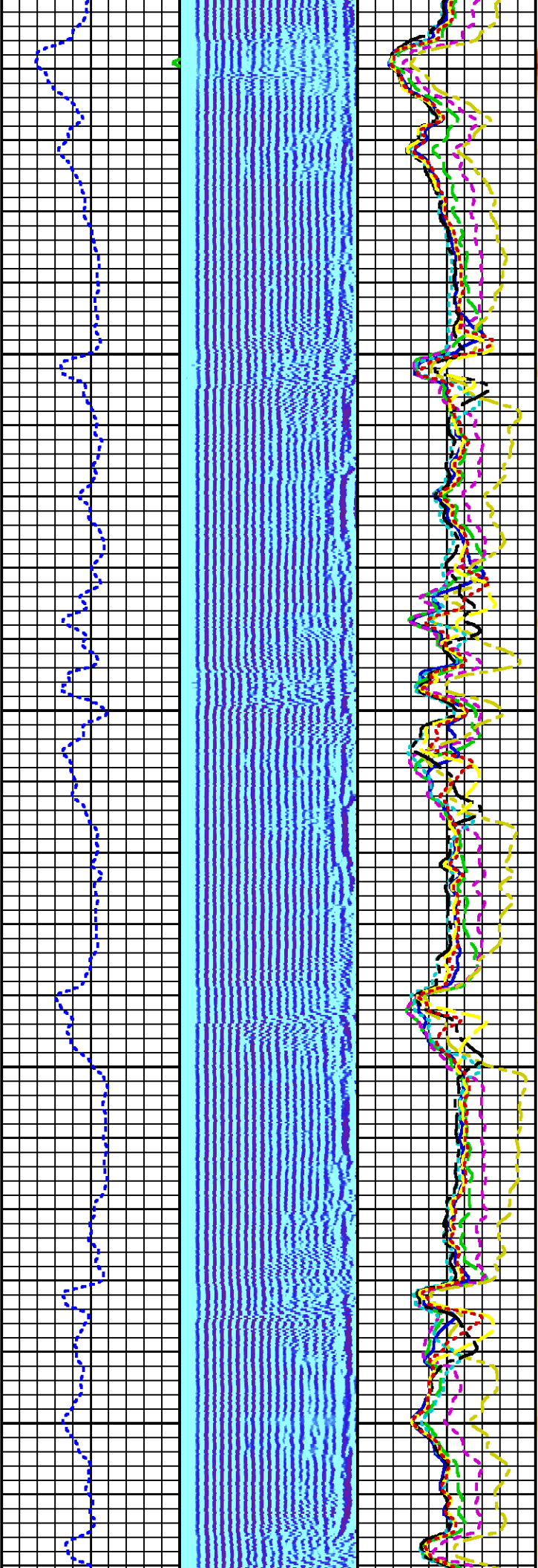


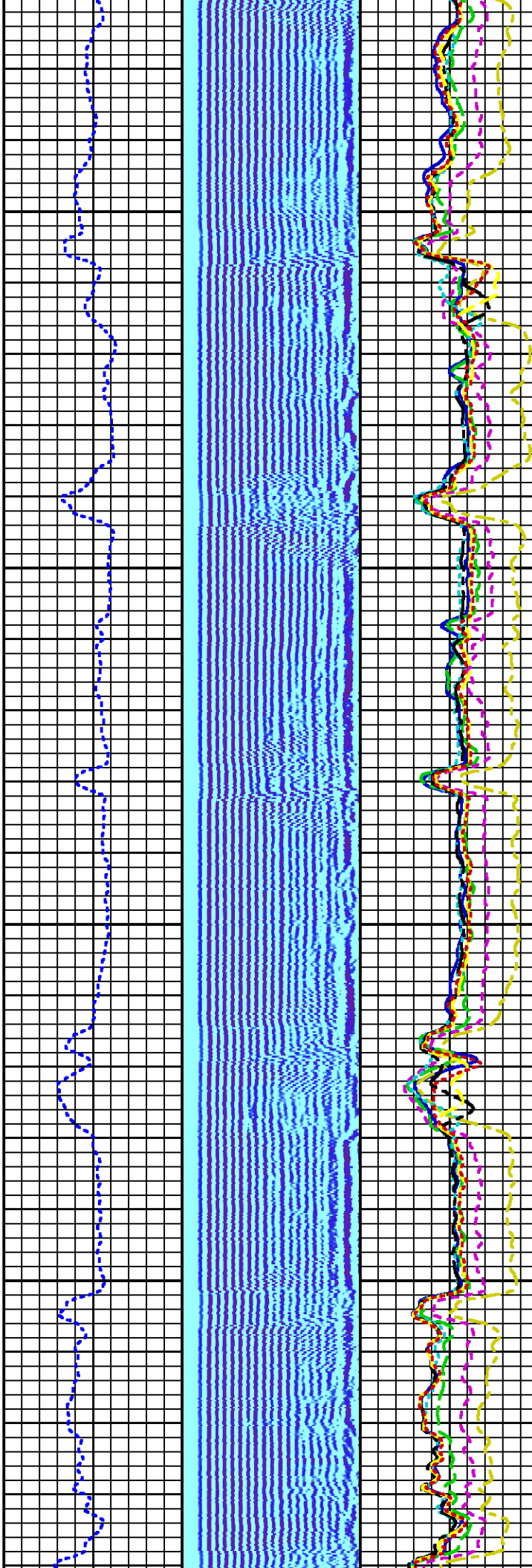
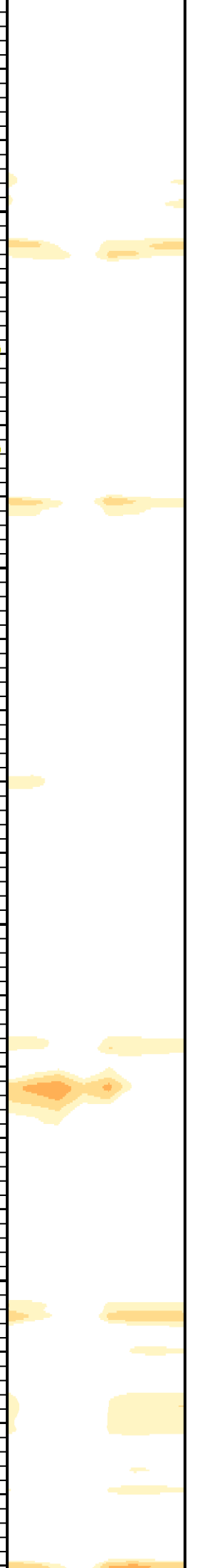
1100

1200

1300

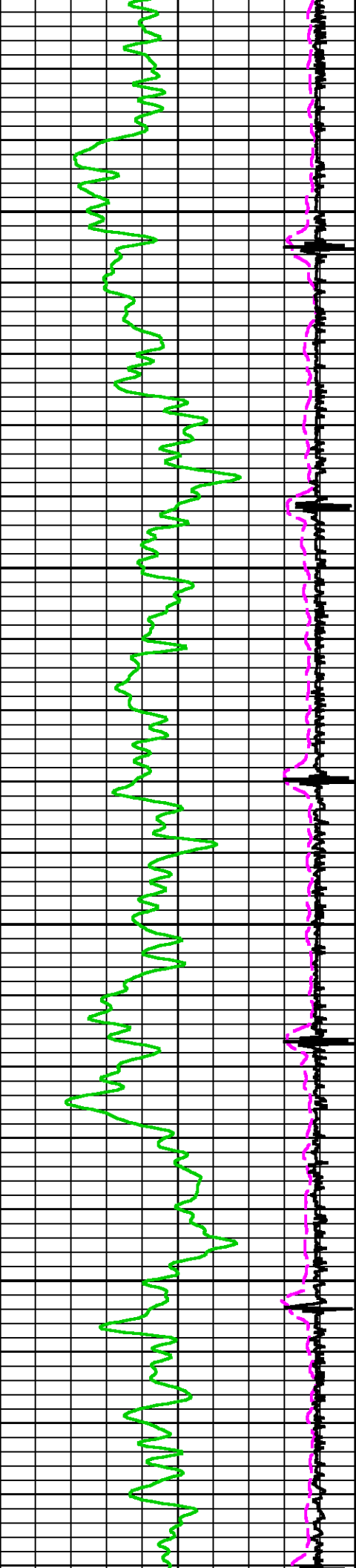


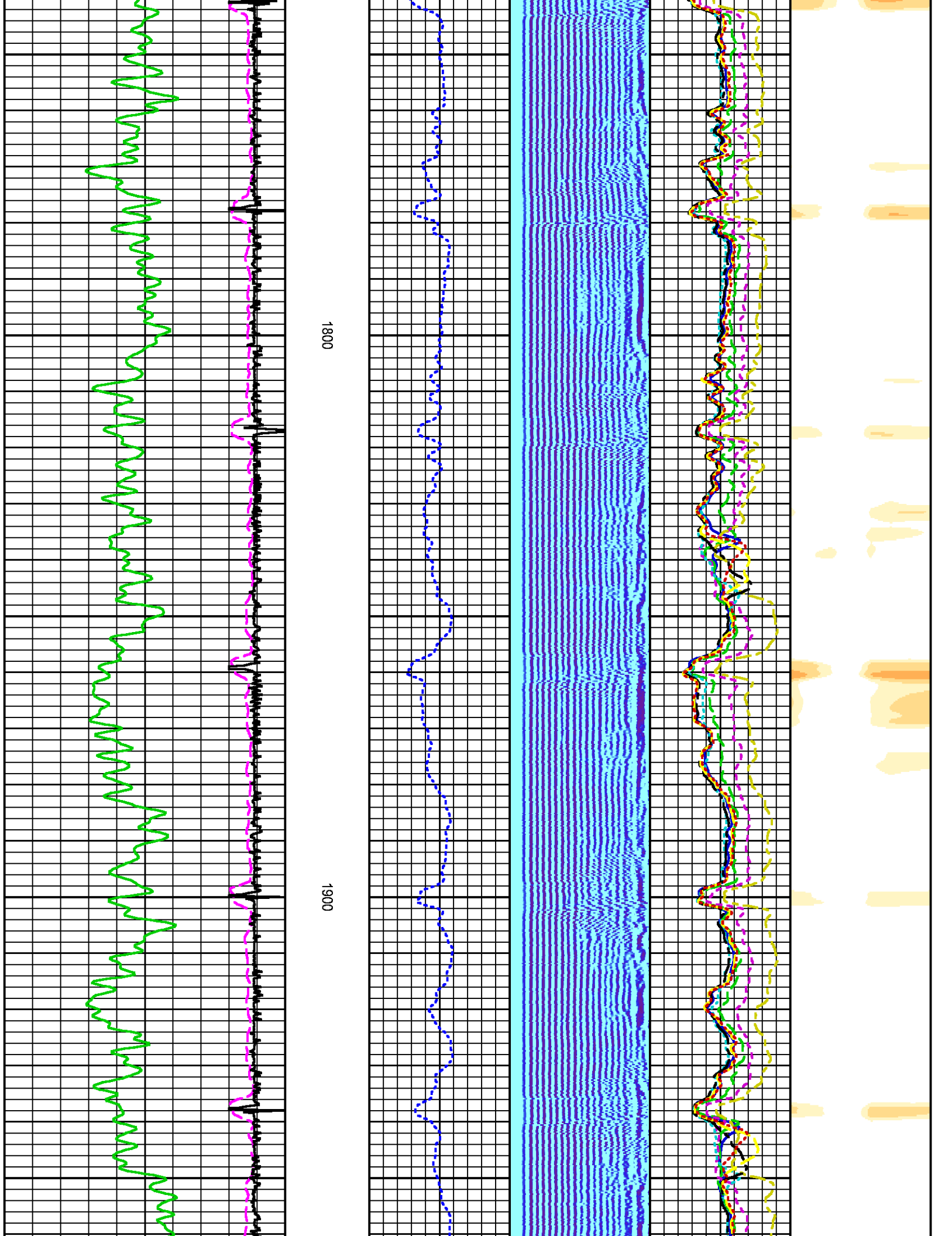


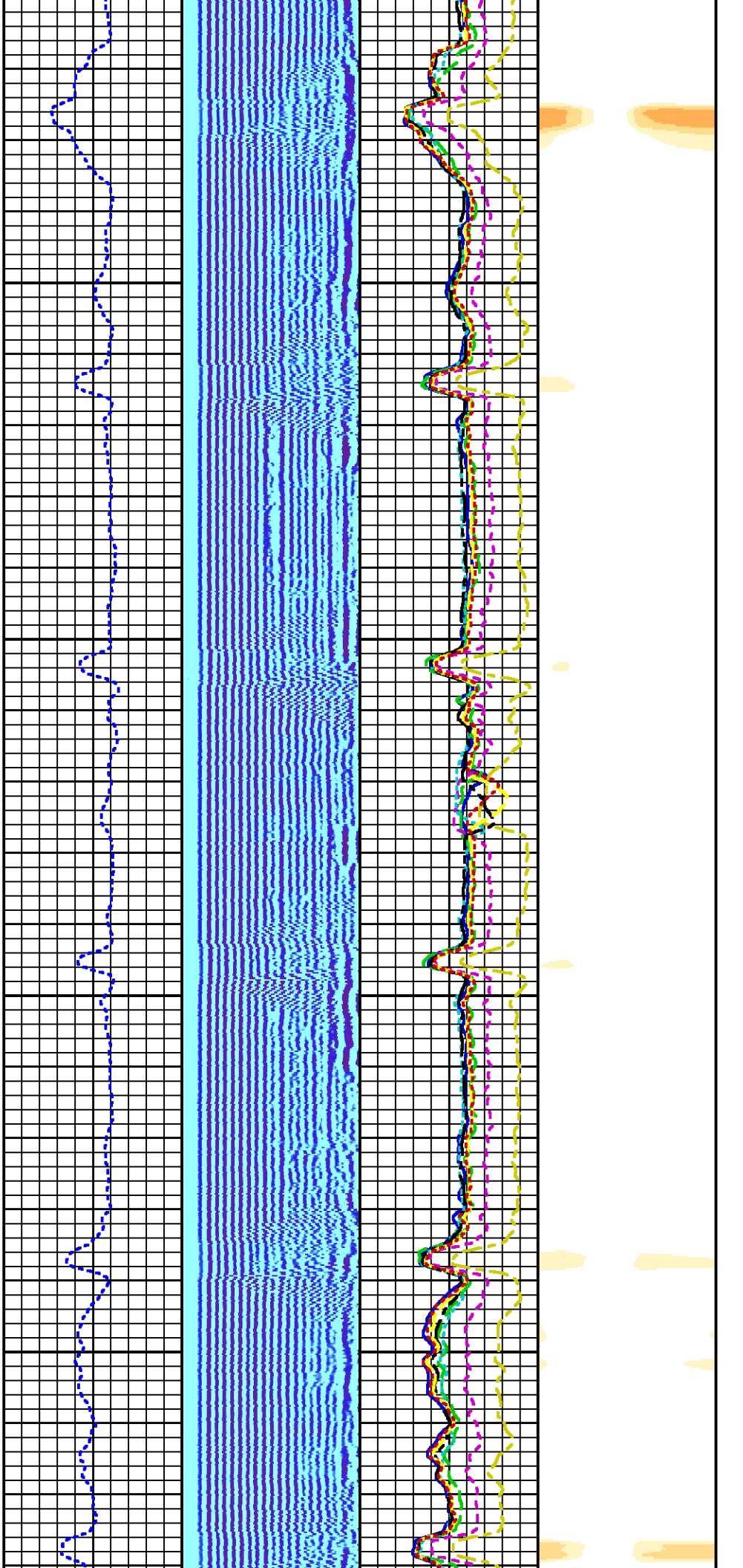


1600

1700

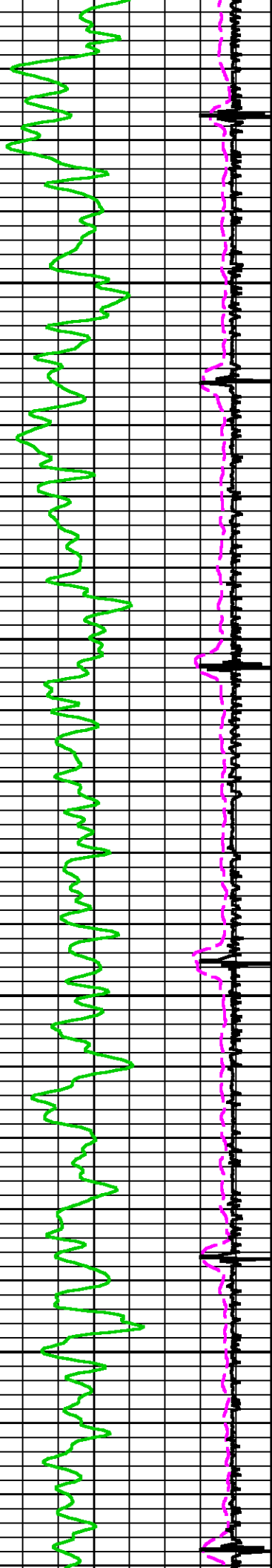


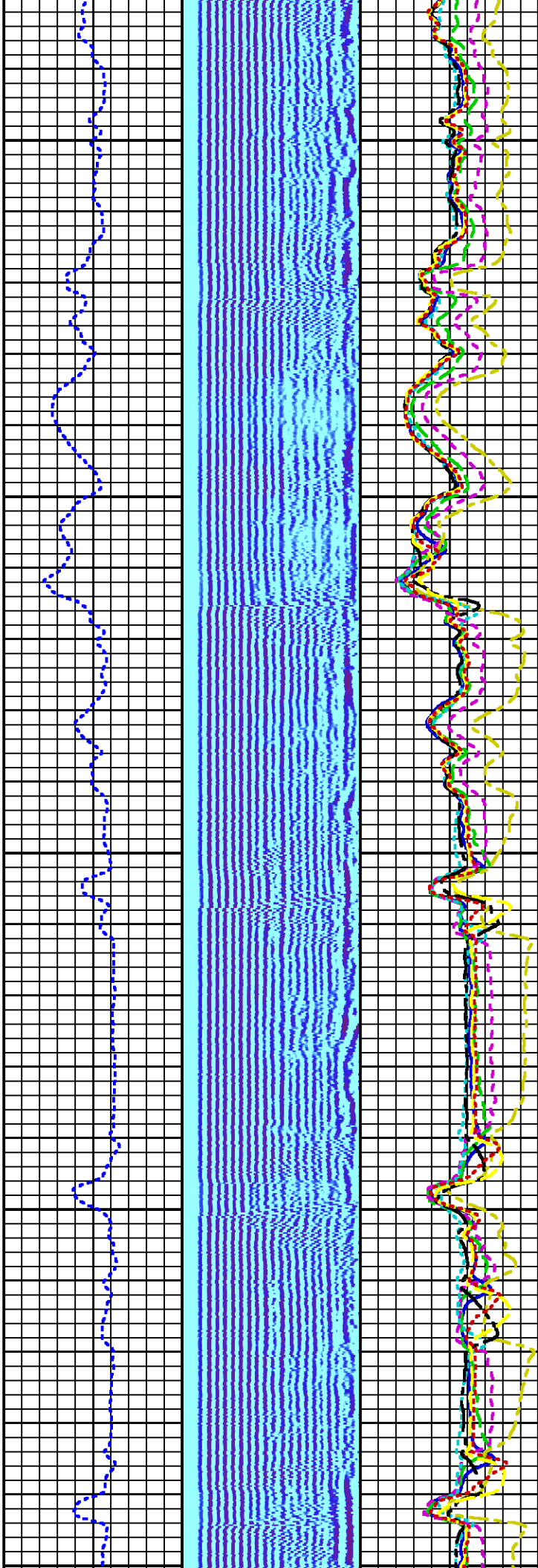
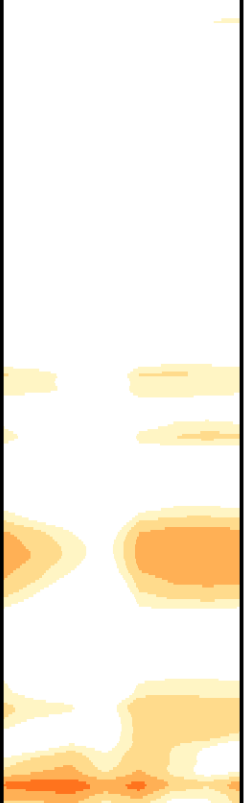




2000

2100

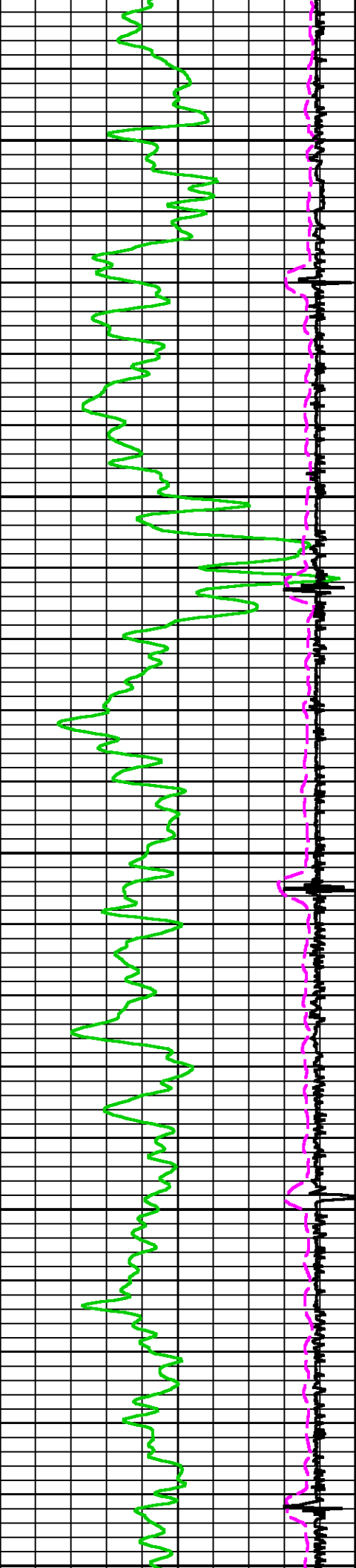


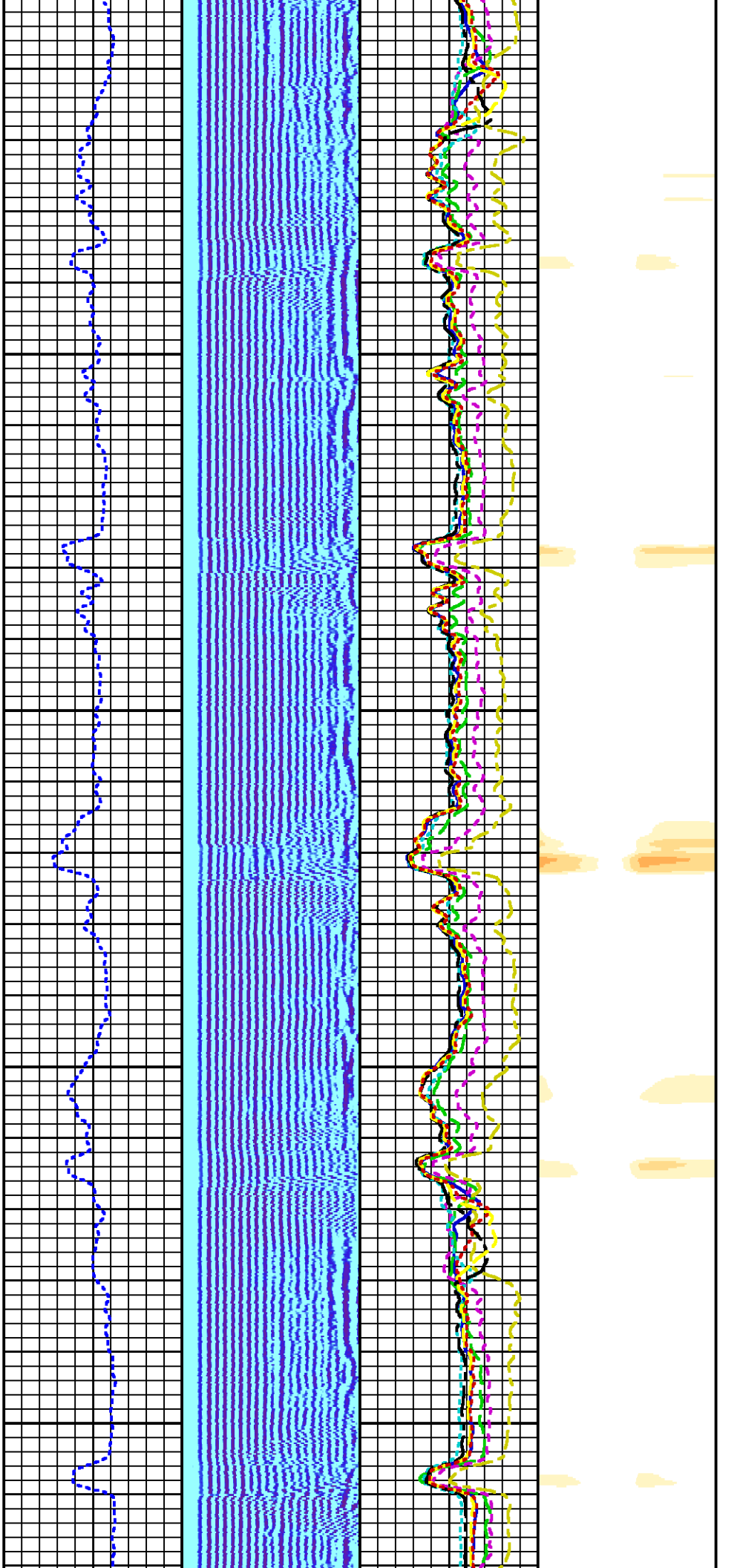


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2300

2400

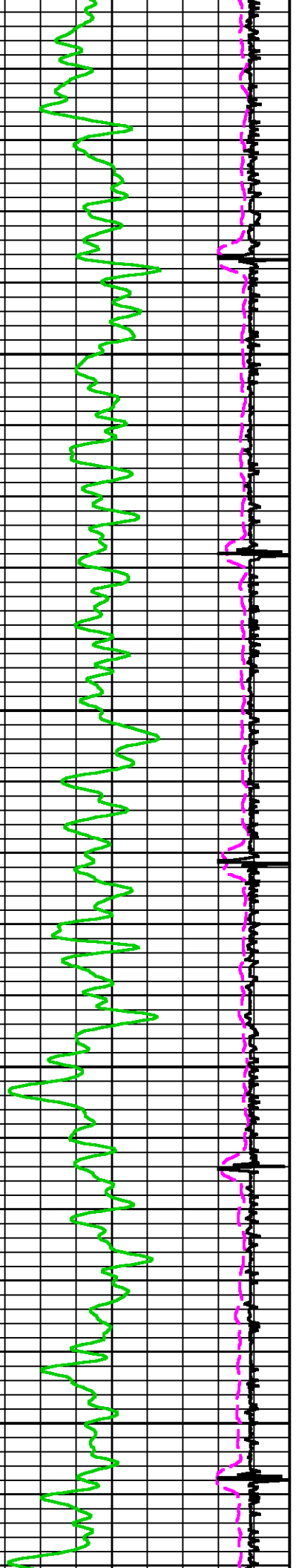


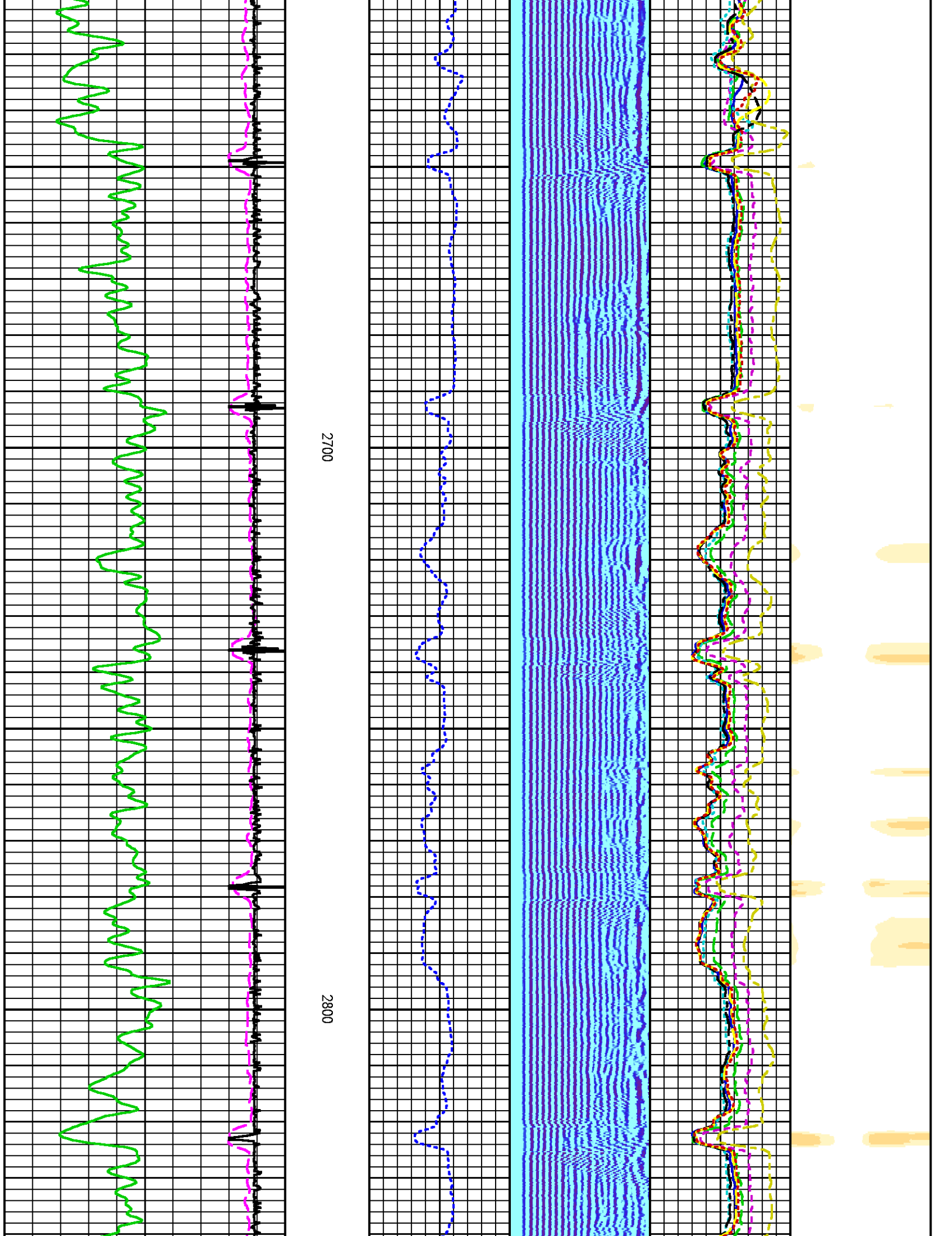


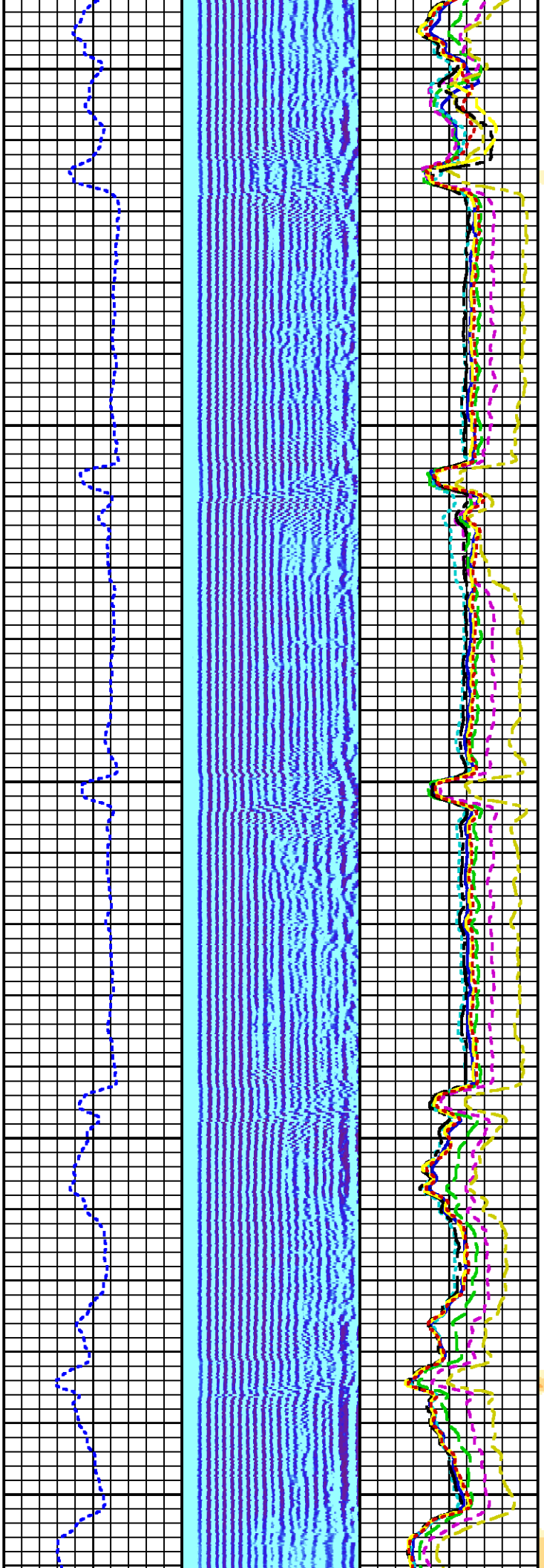
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2500

2600

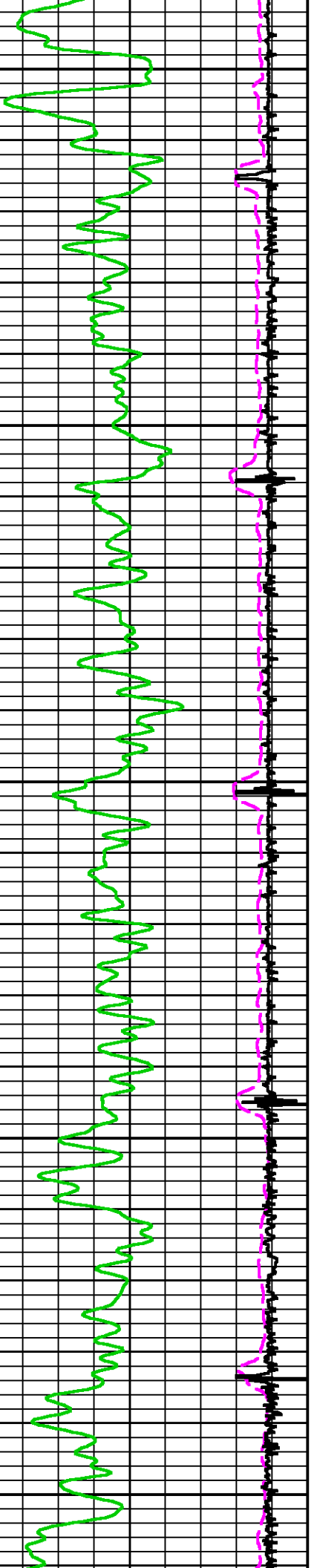


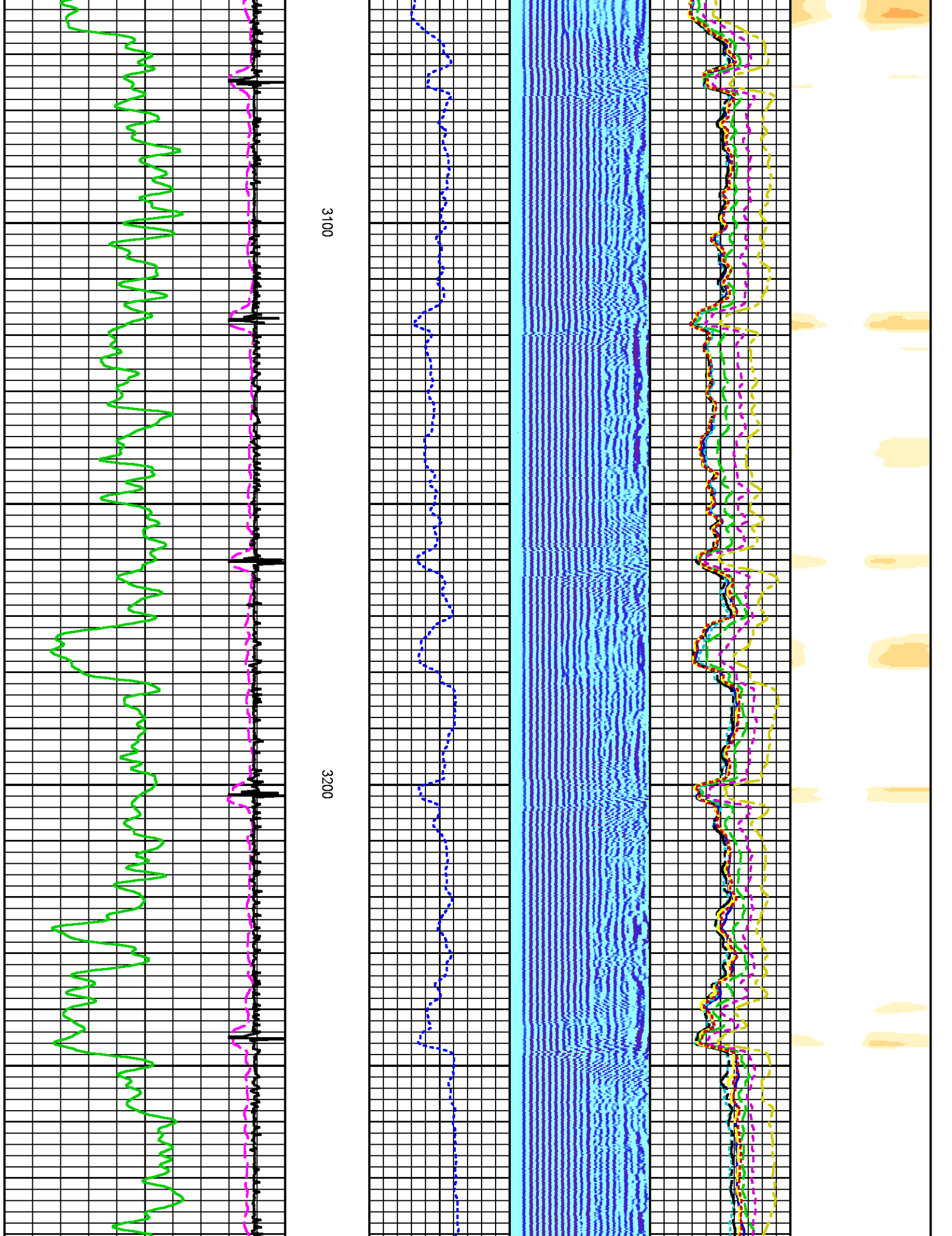


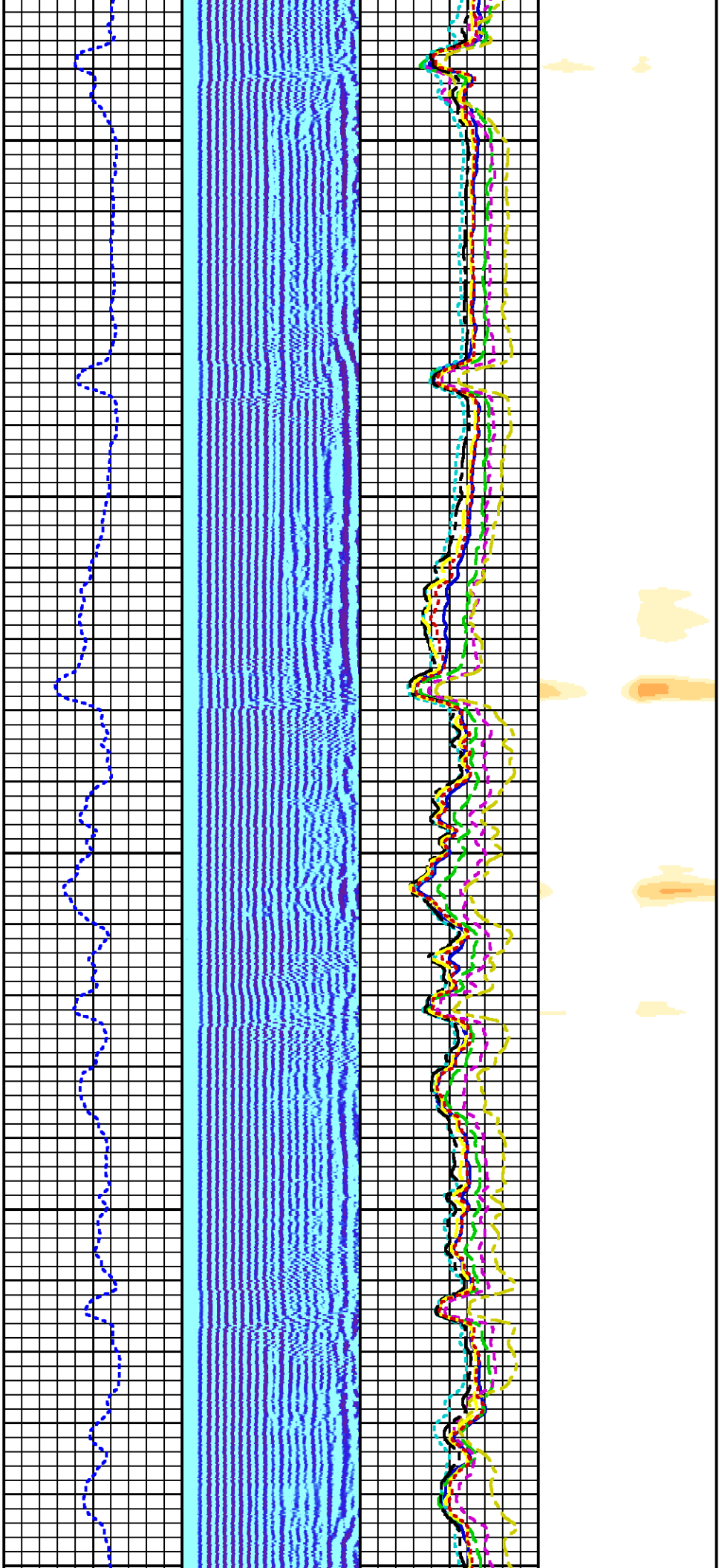


2900

3000



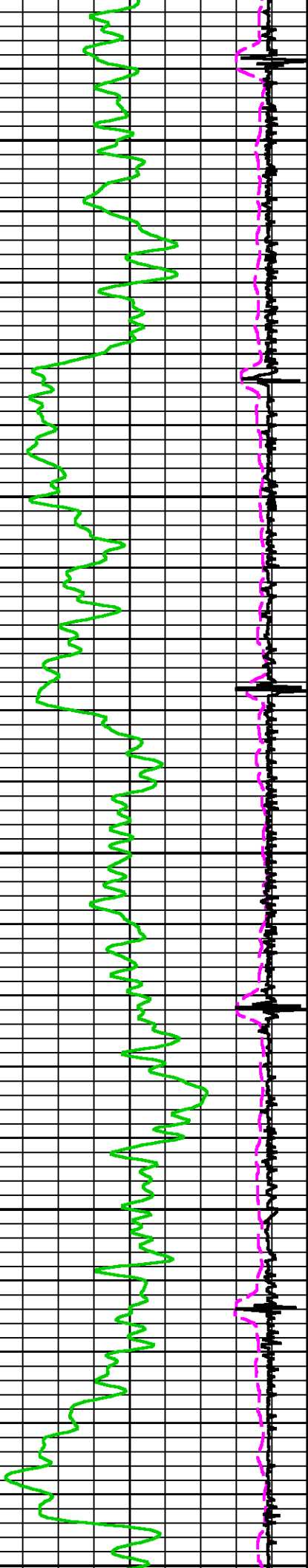


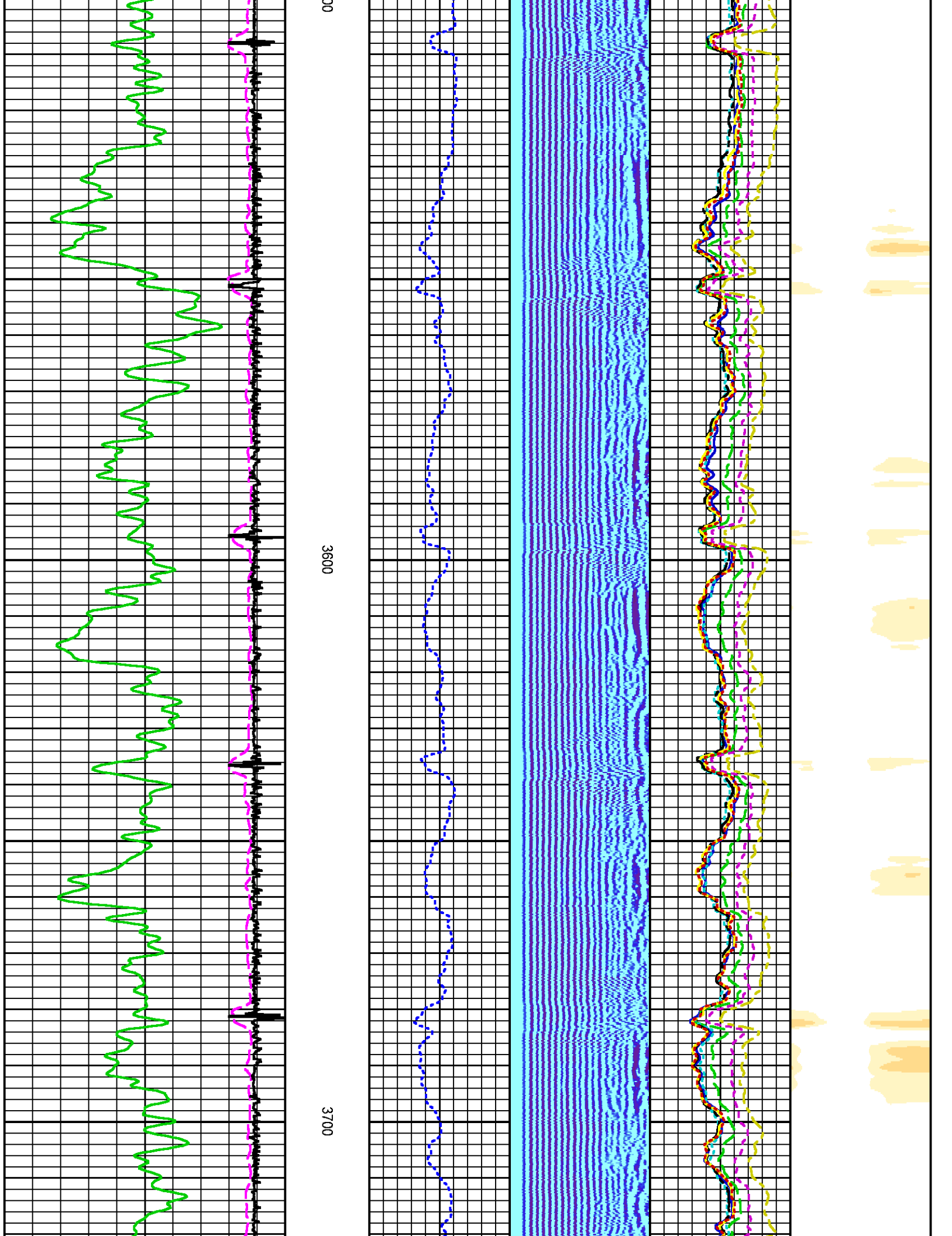


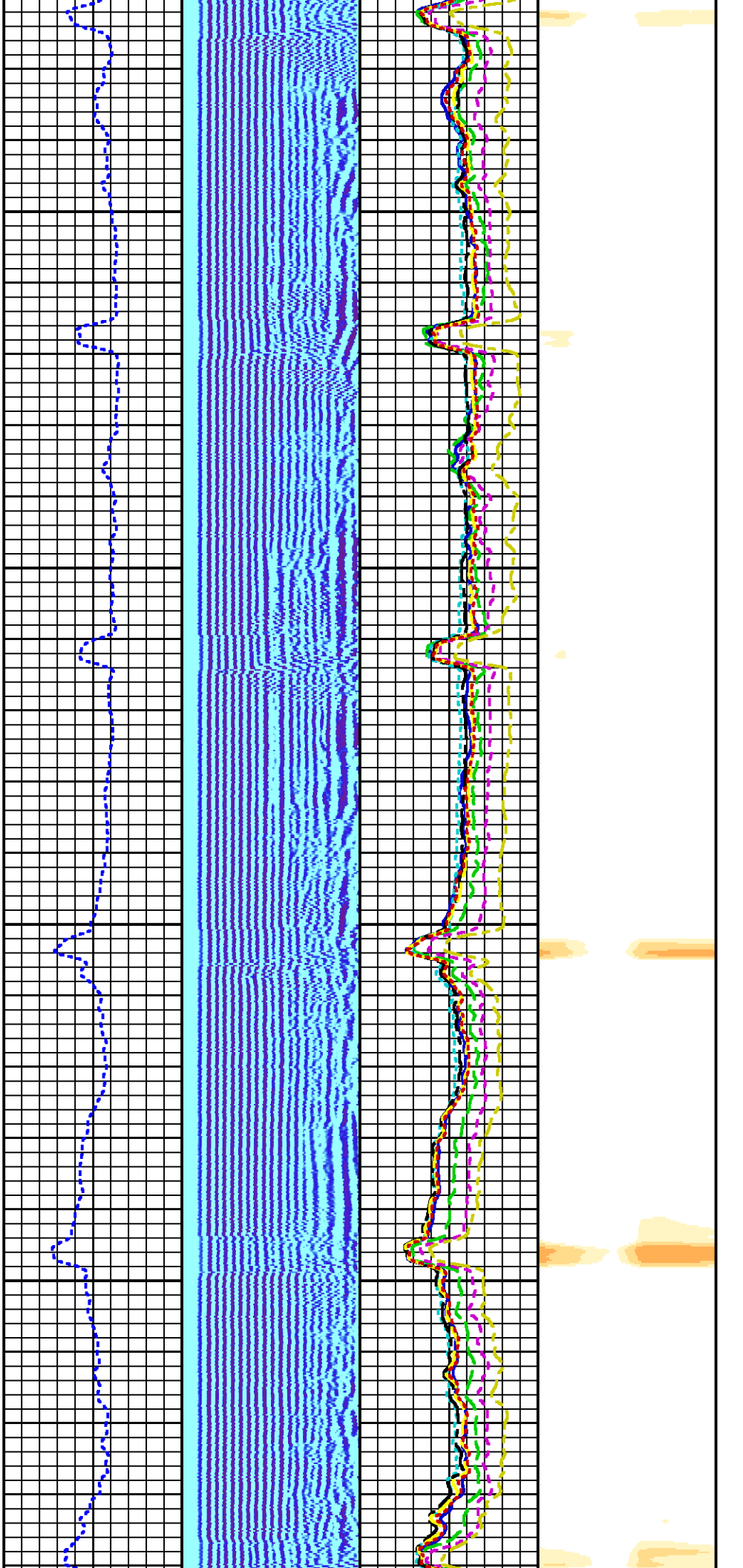
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3400

3500

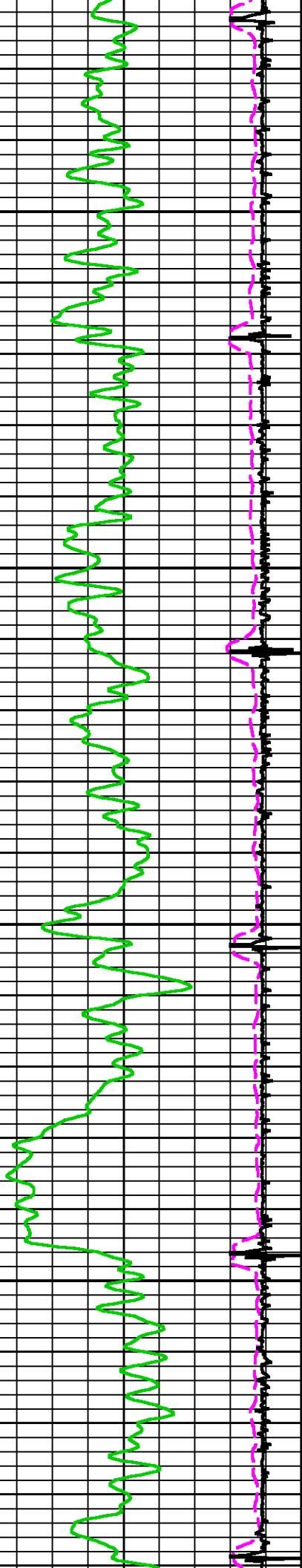


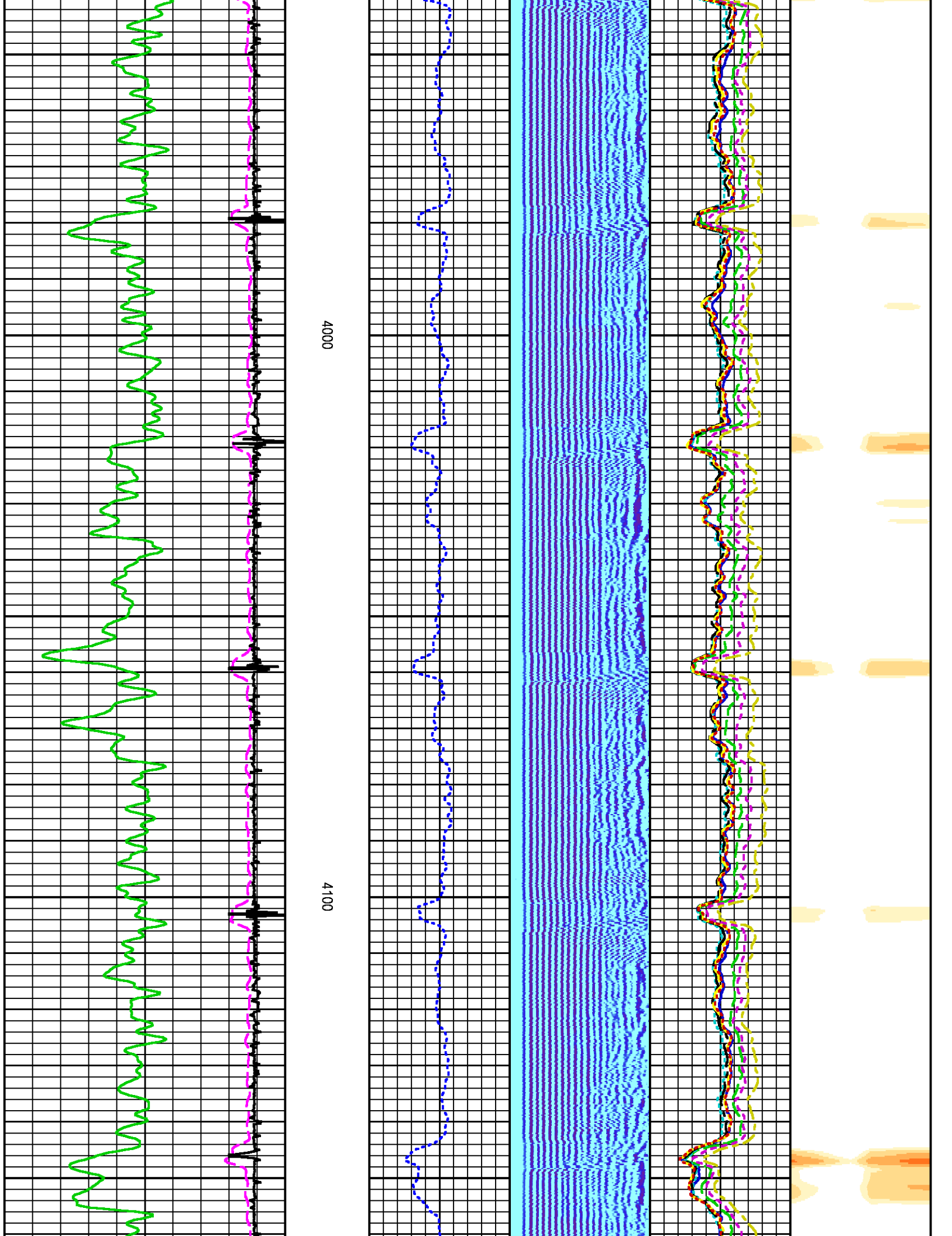


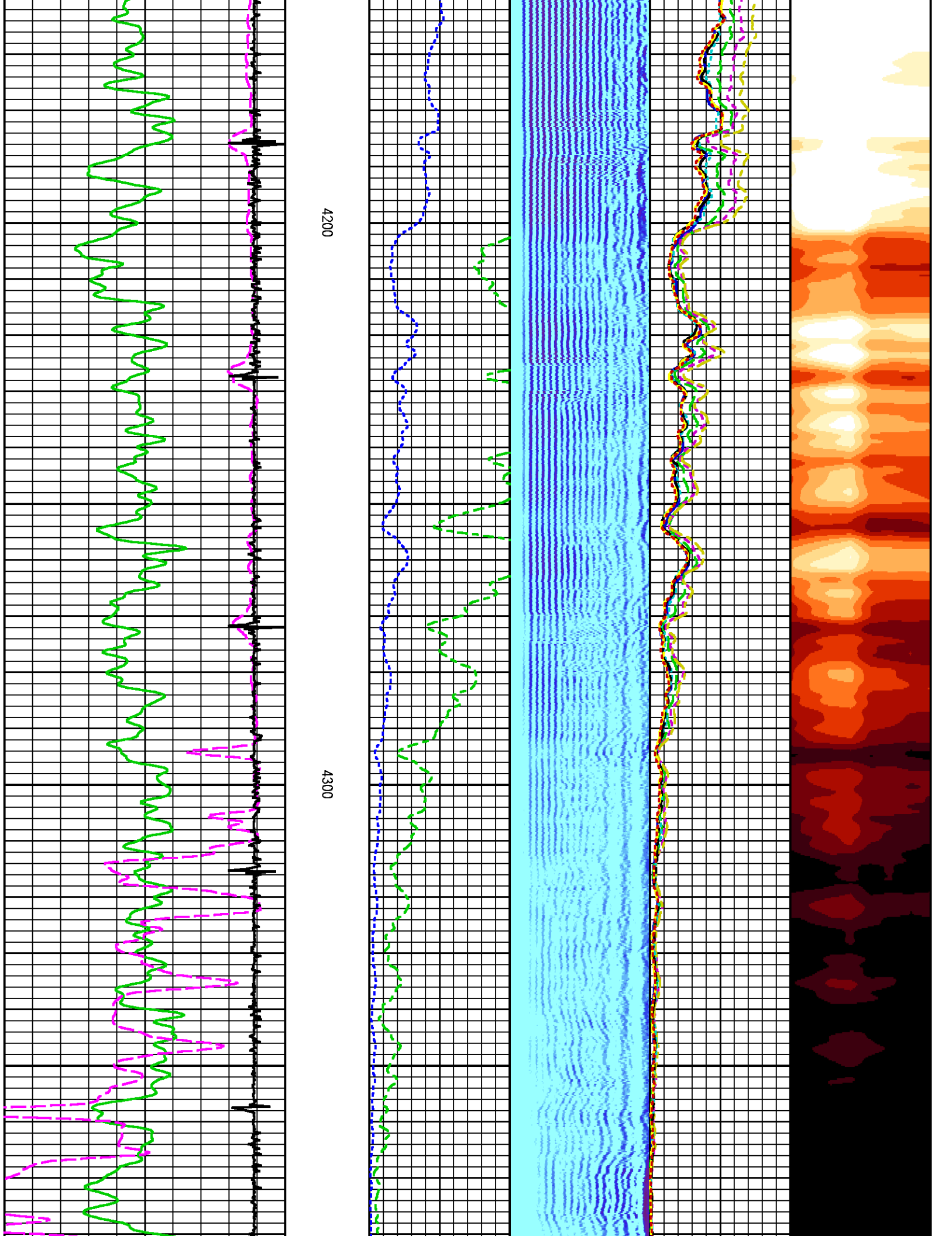


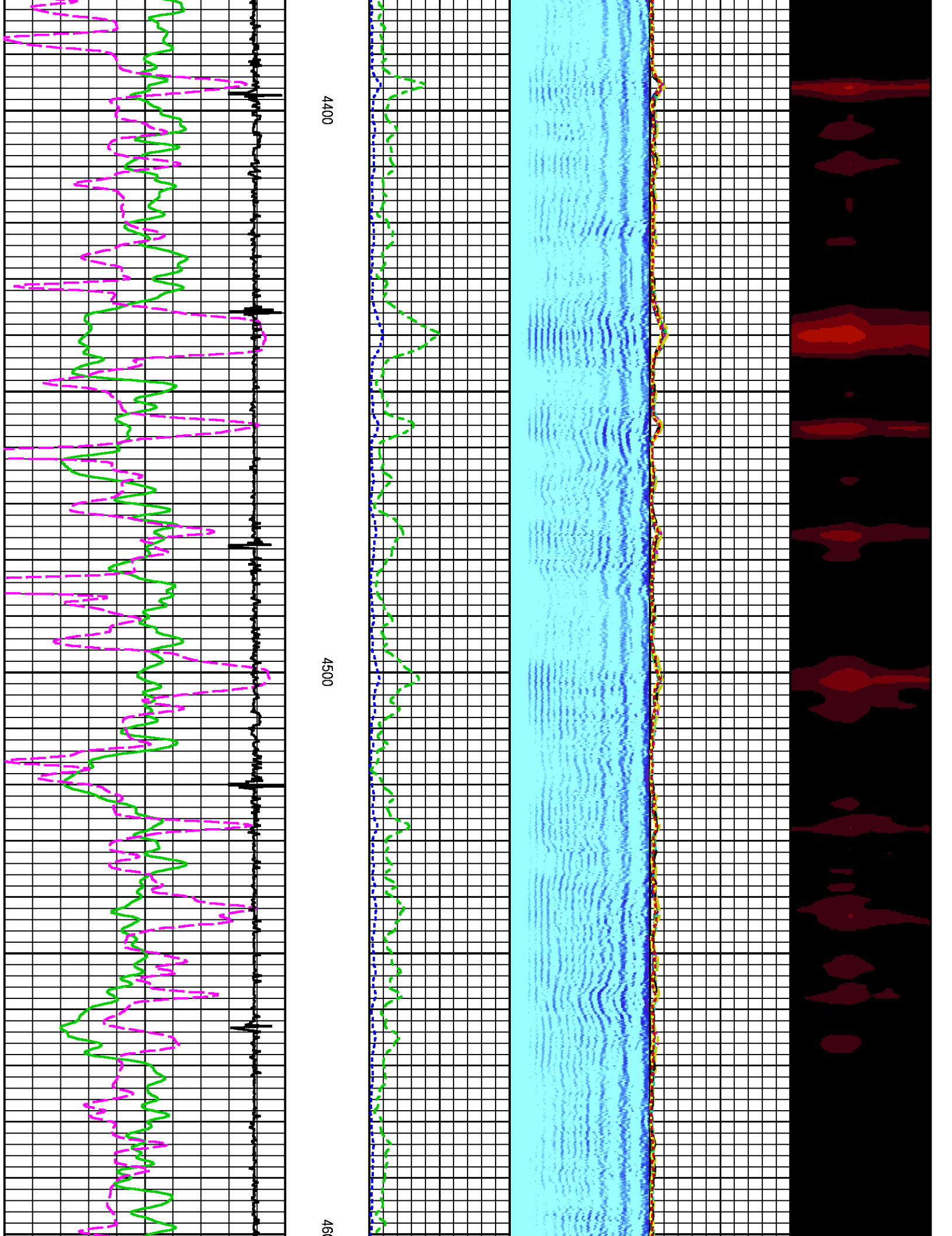
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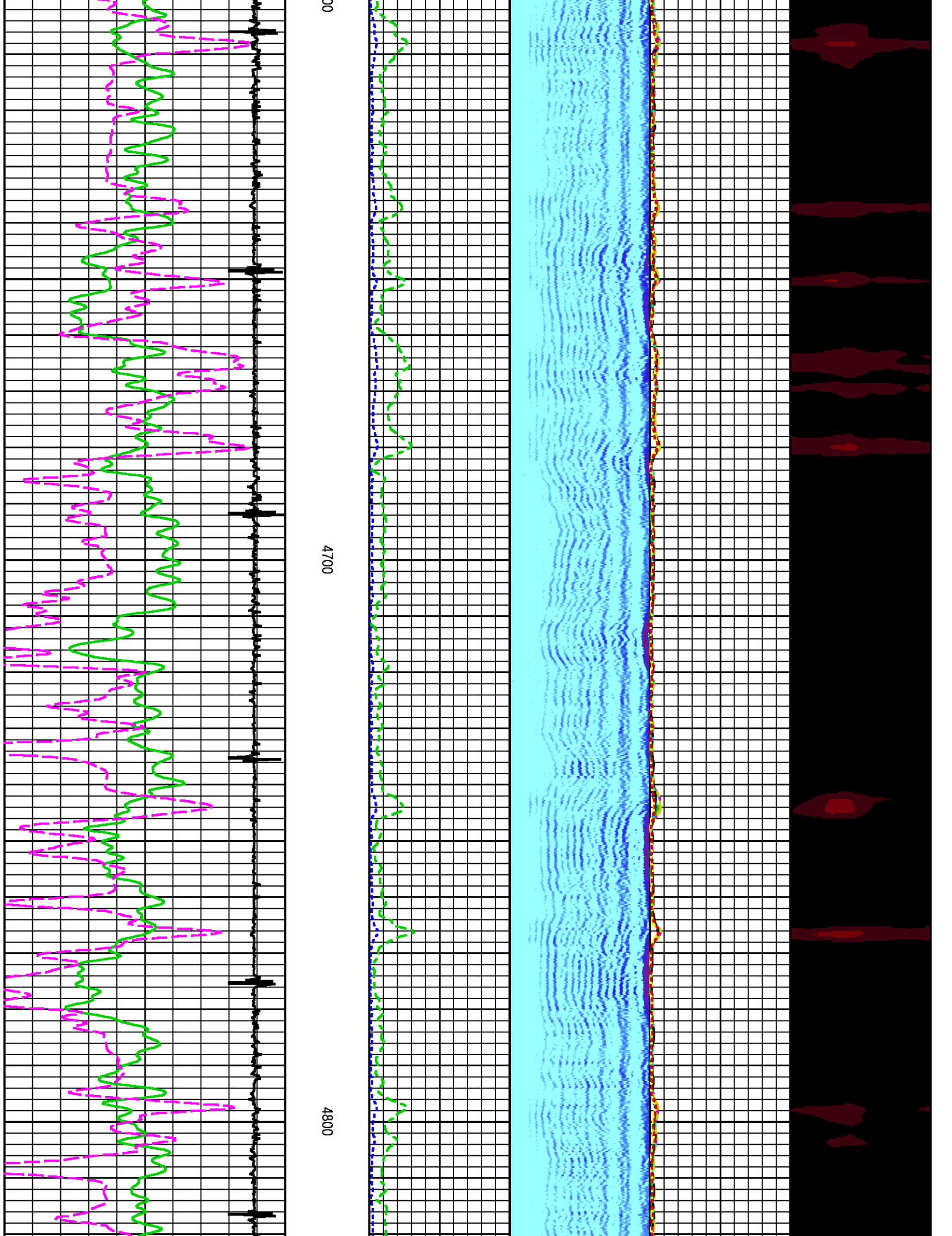
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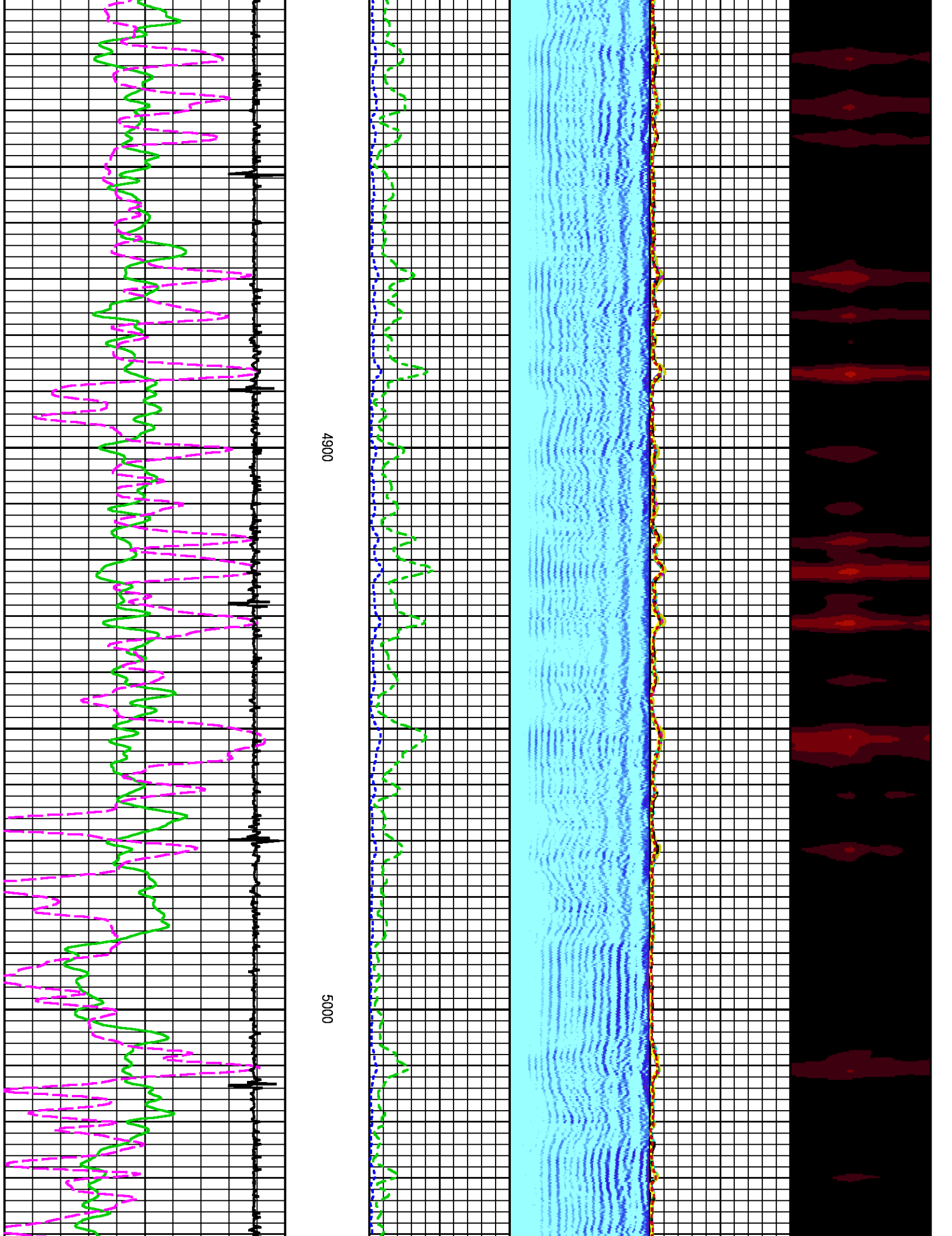


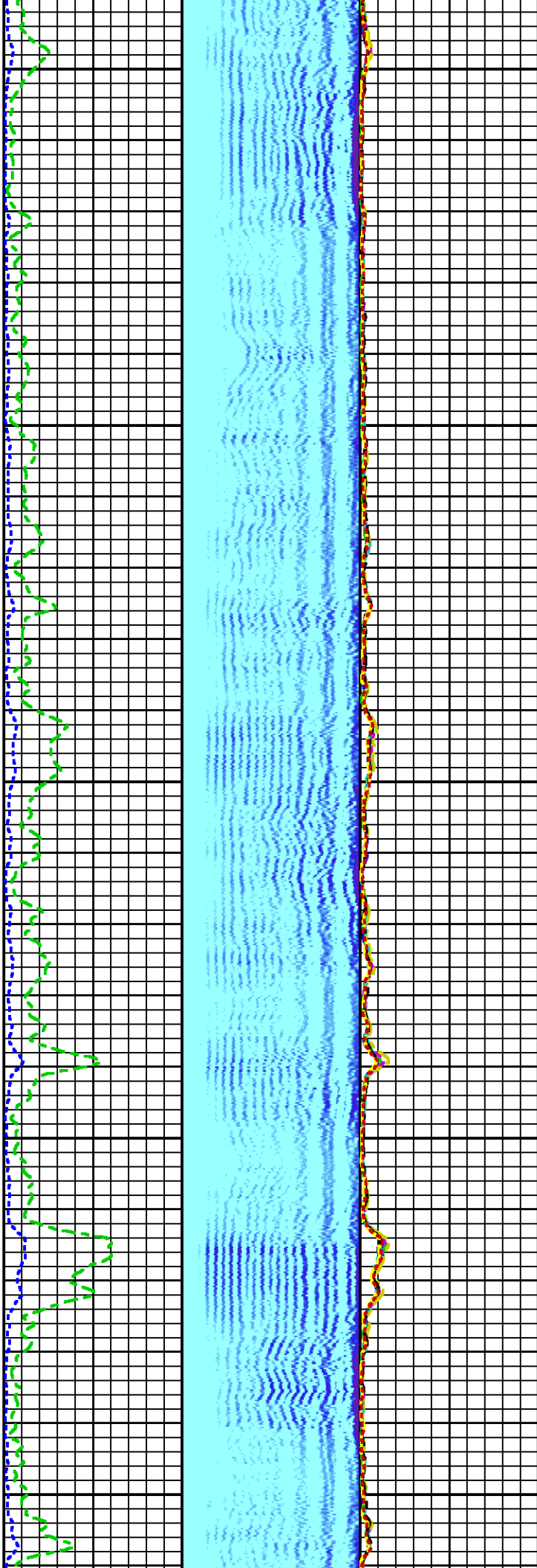
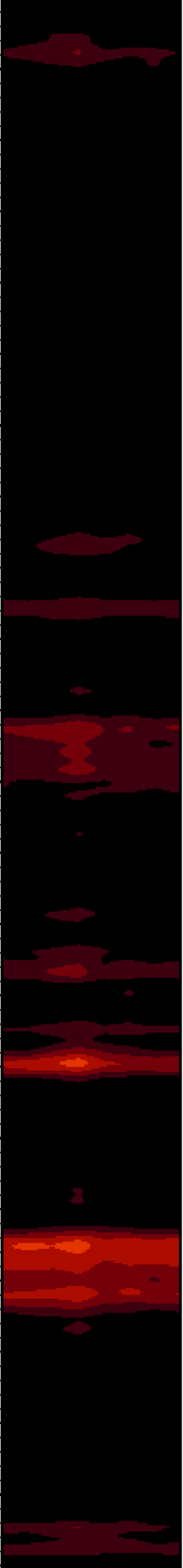






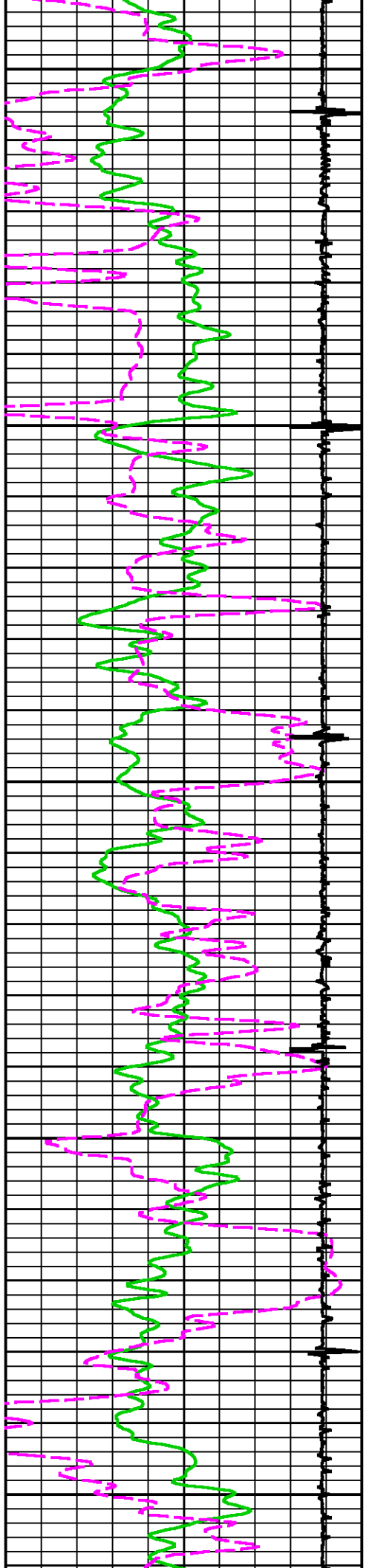


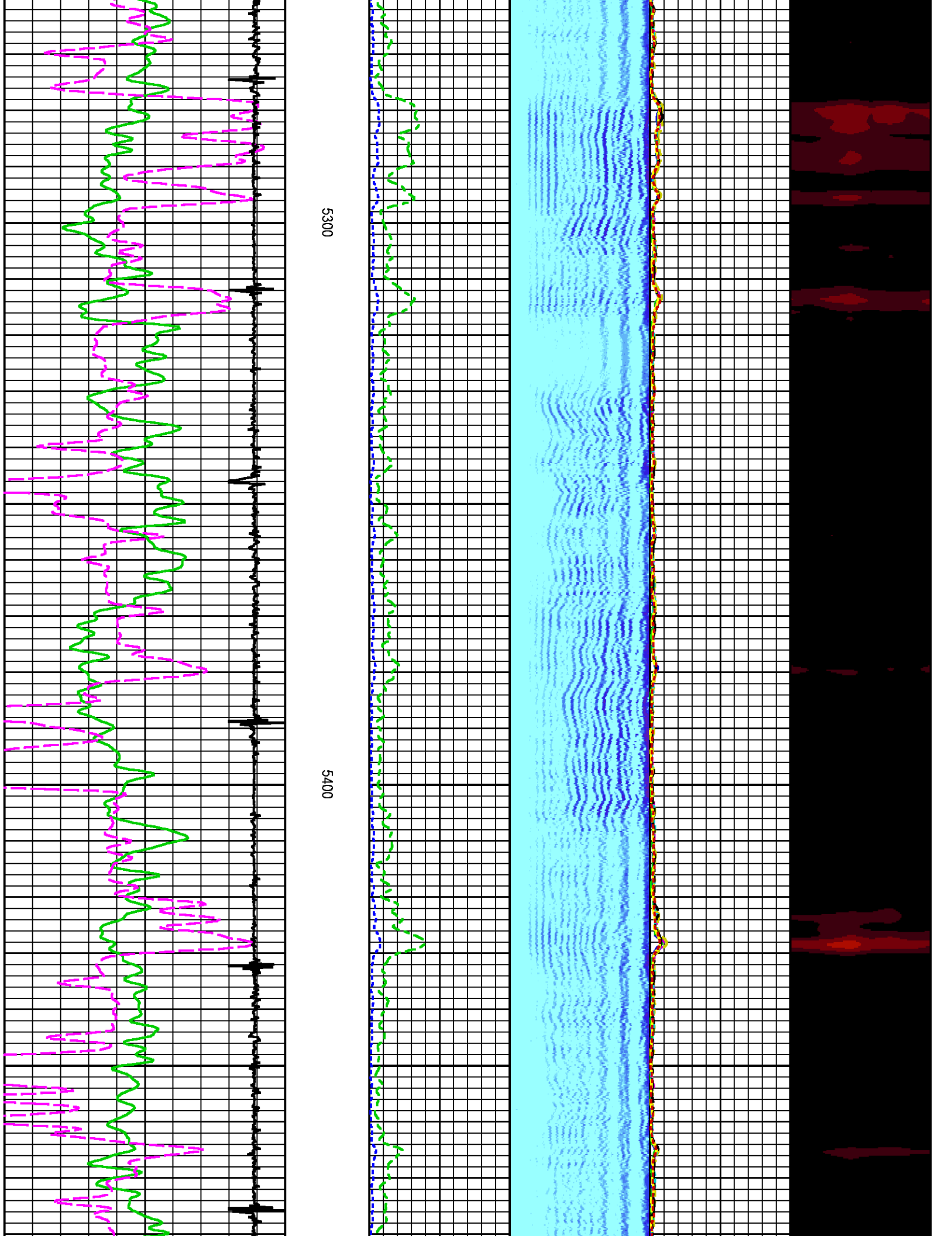


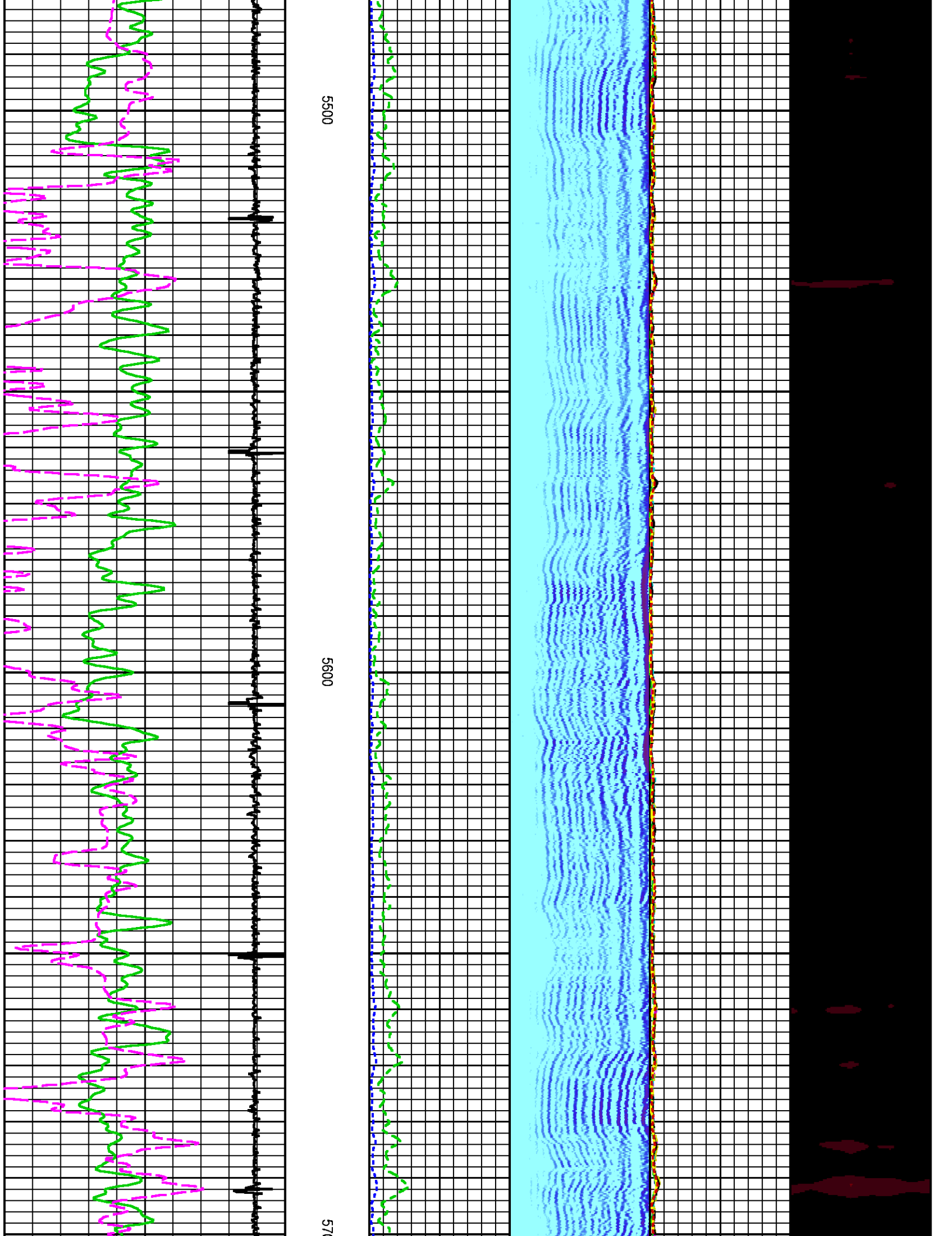


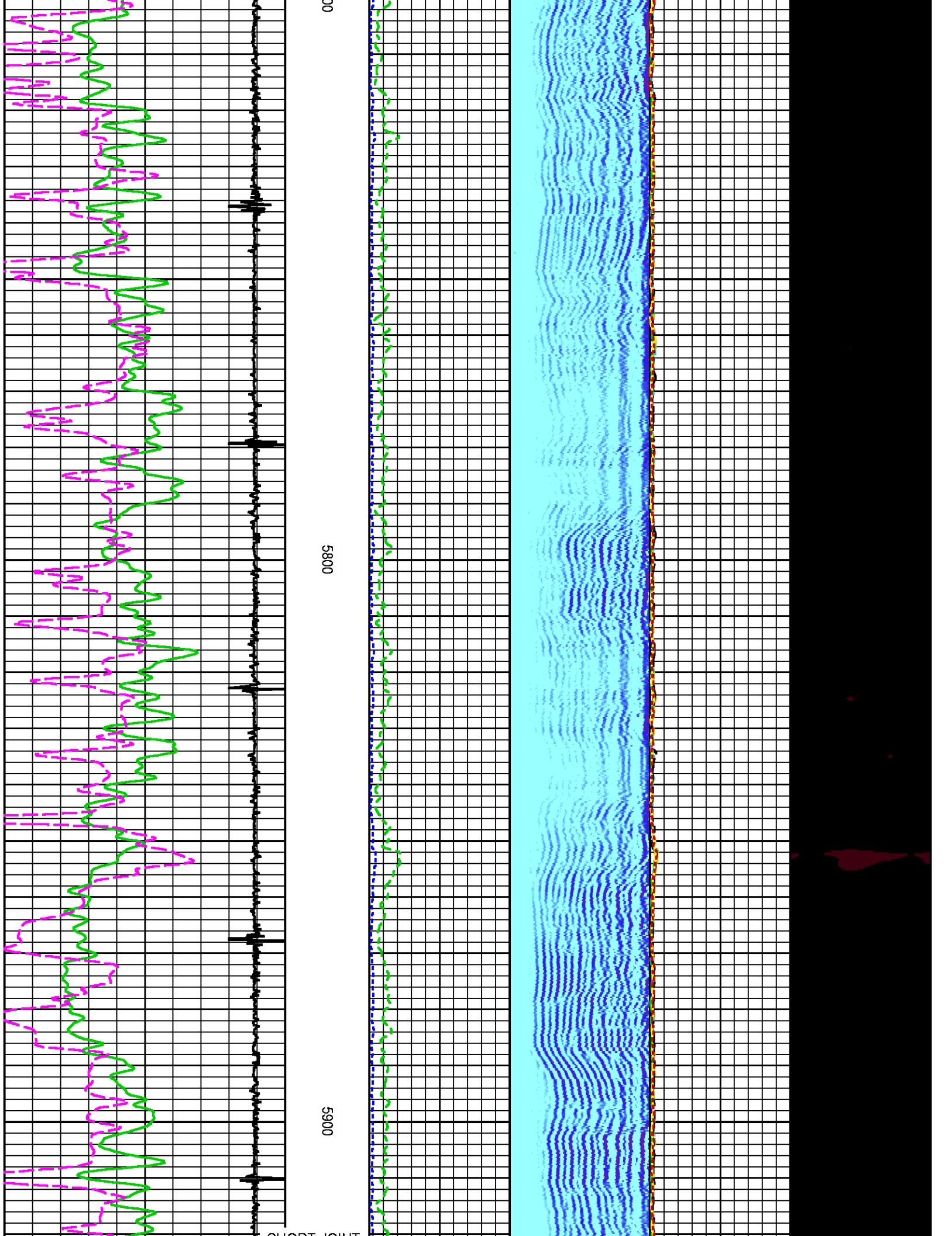
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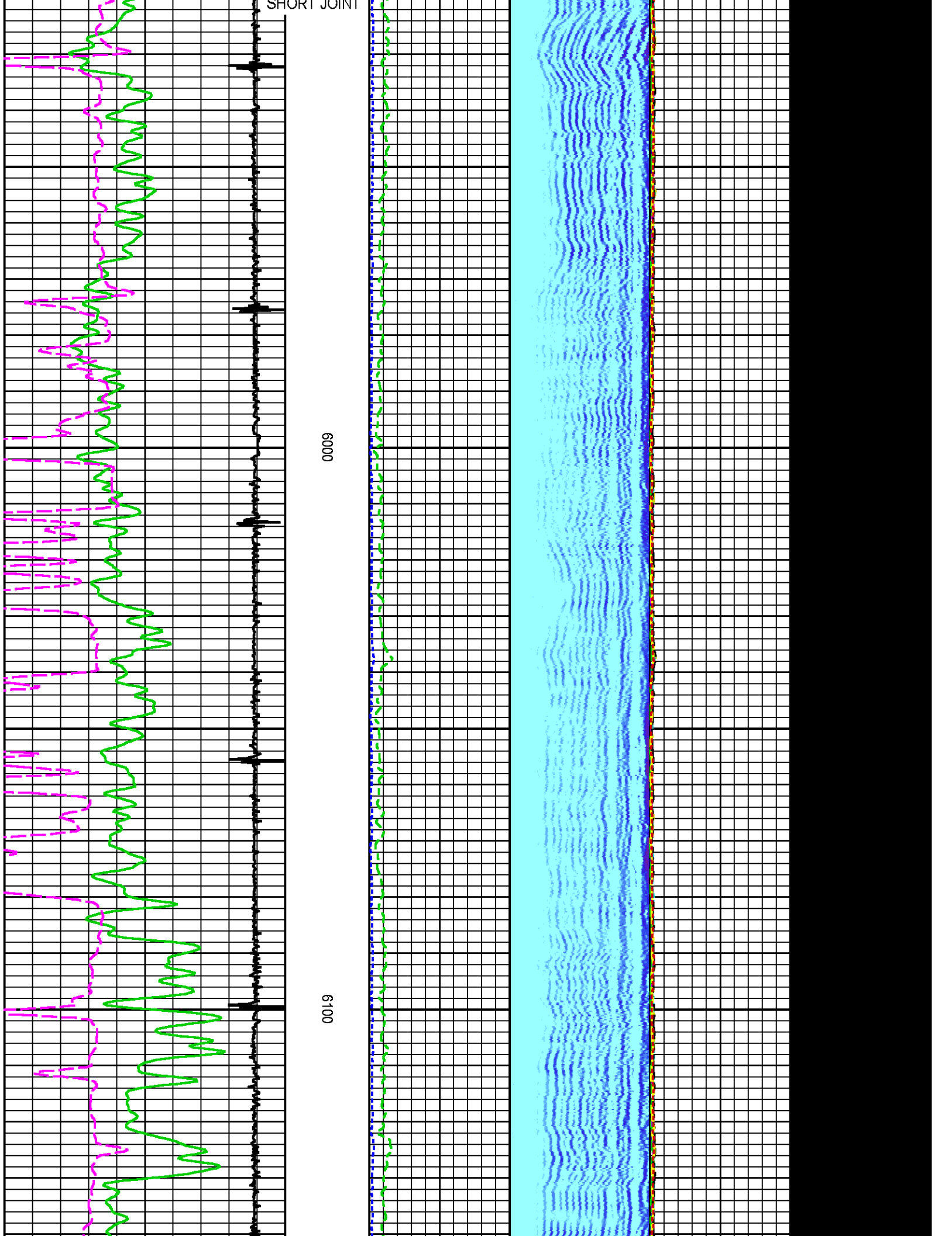
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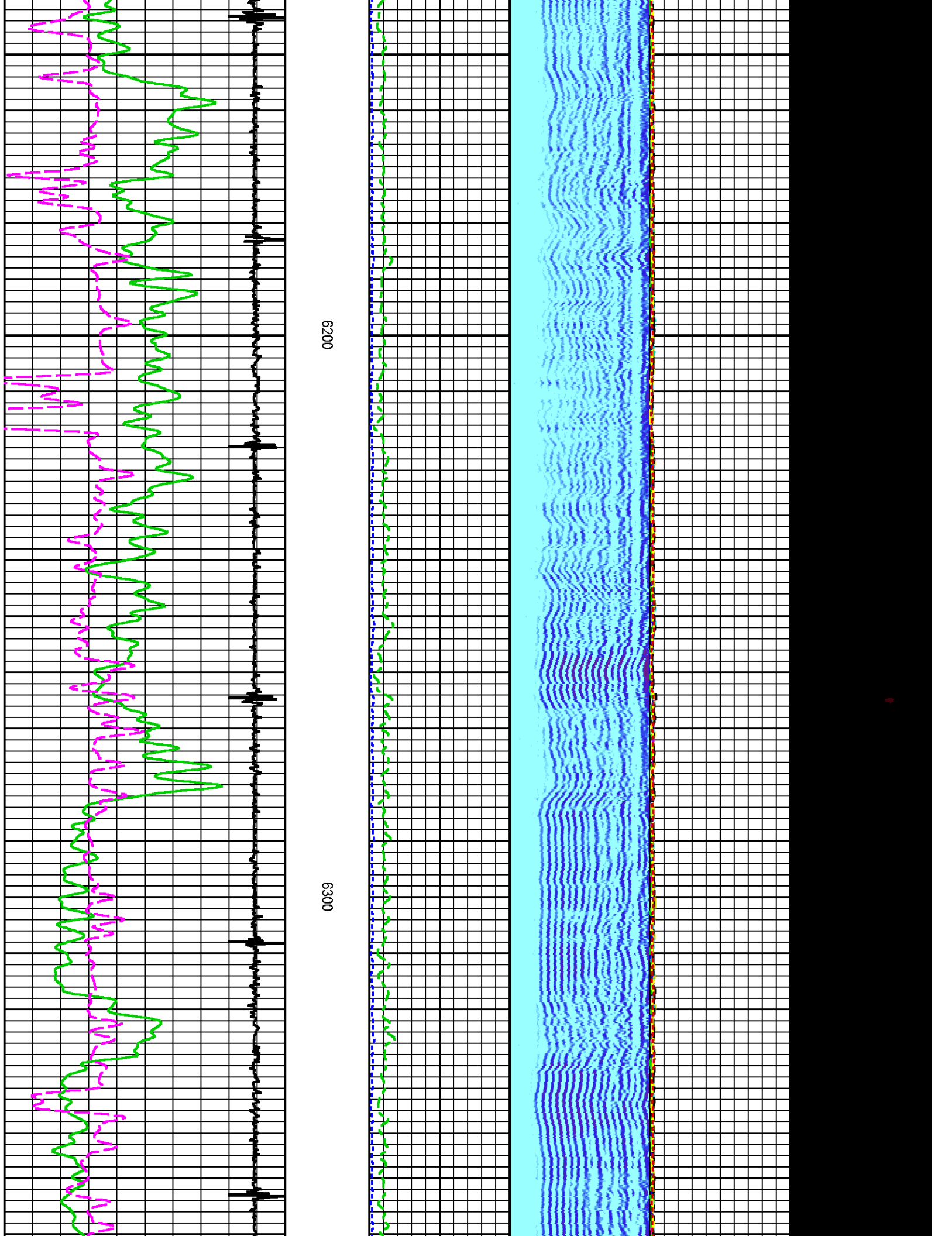


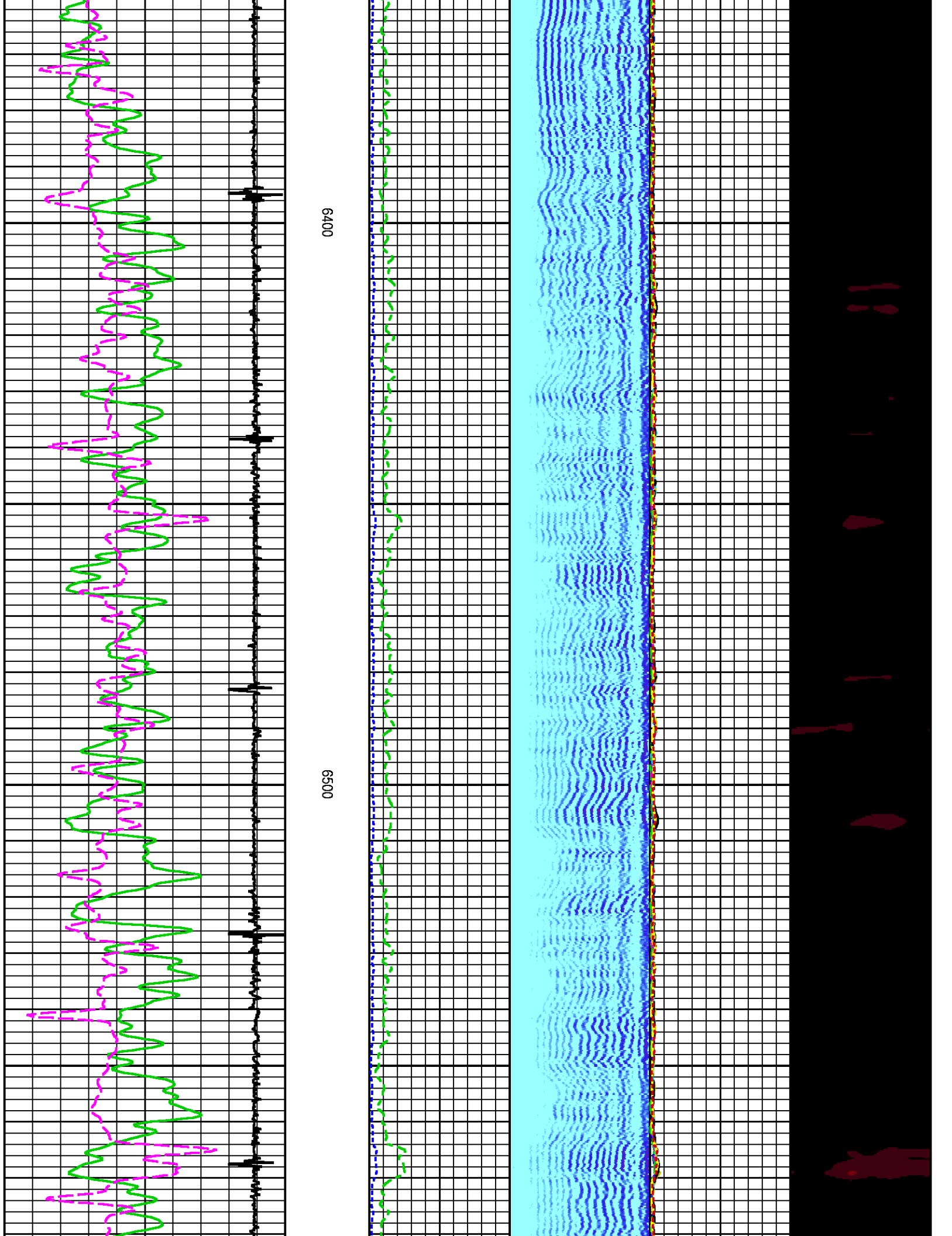


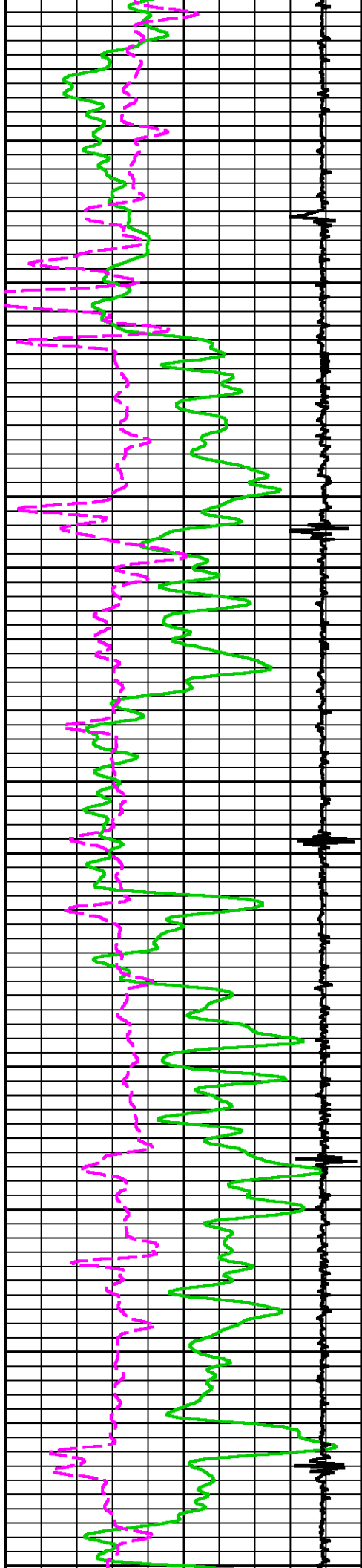








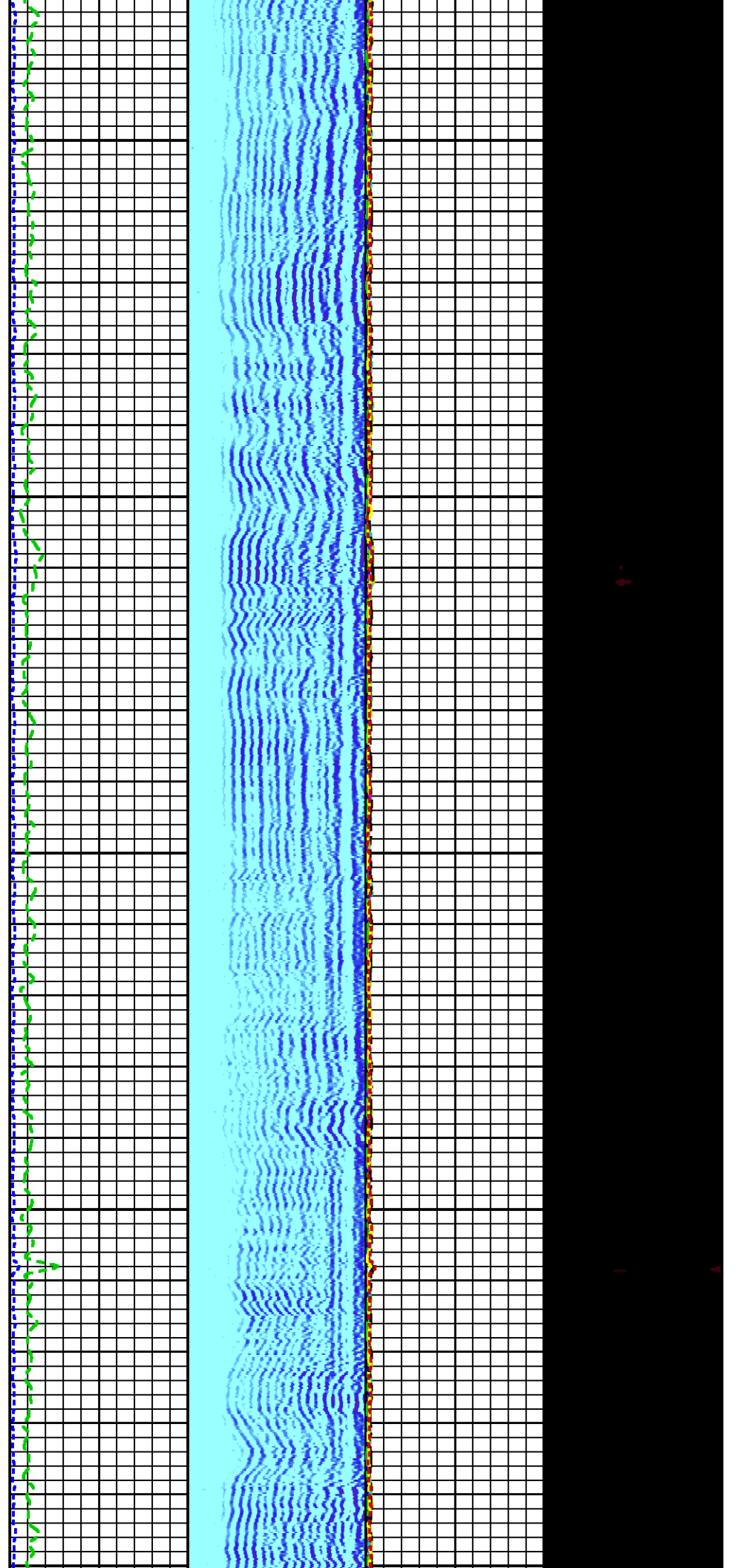


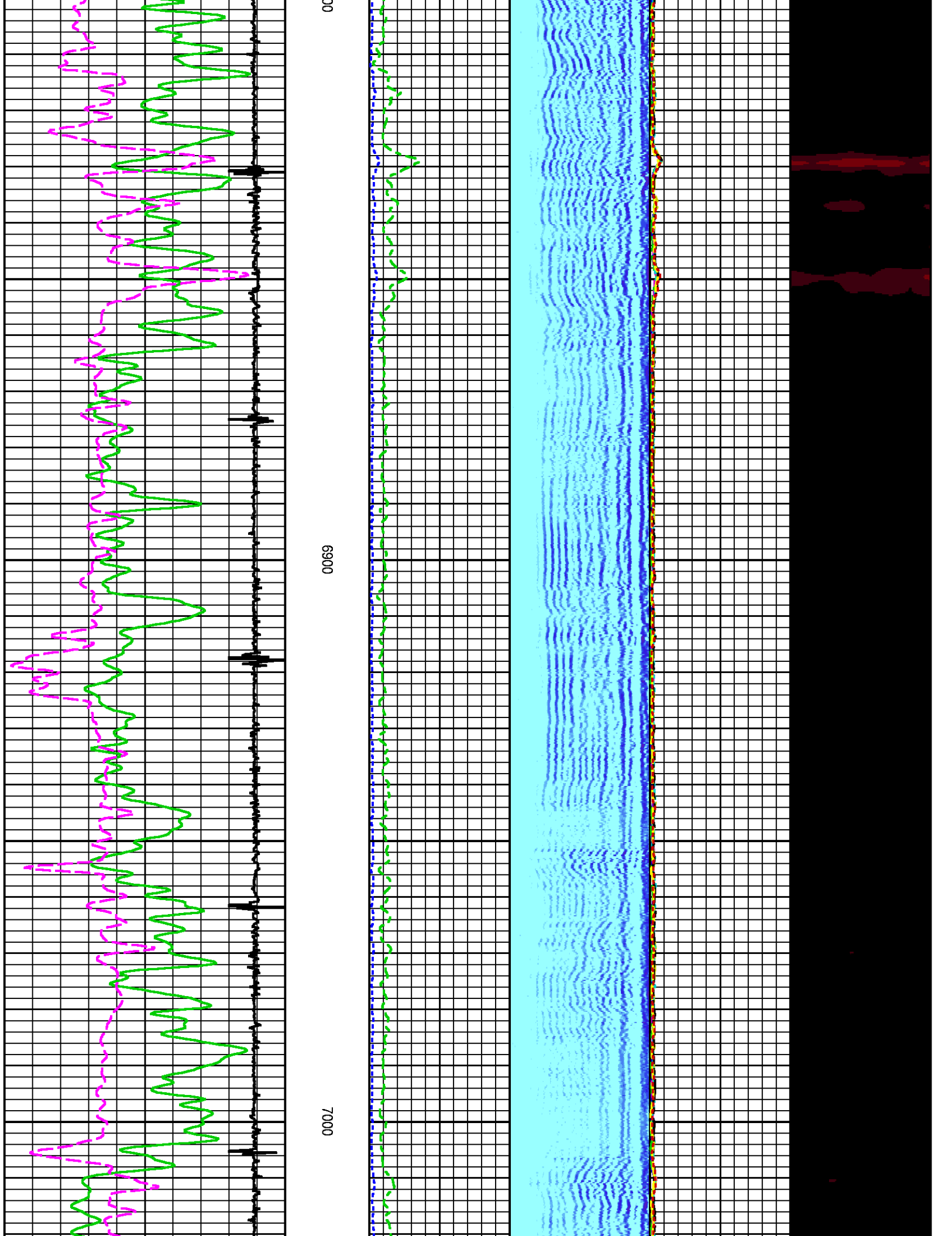


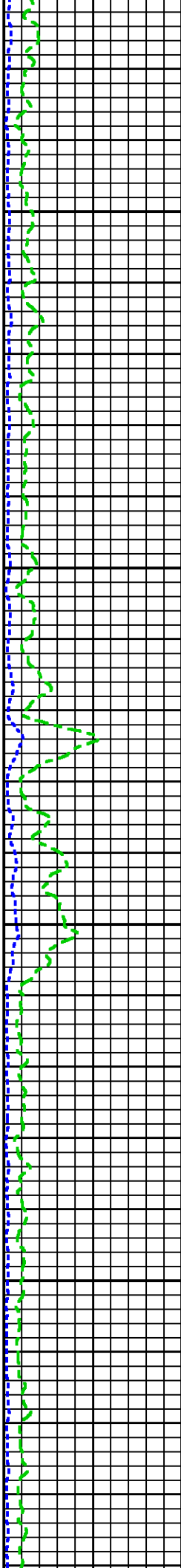
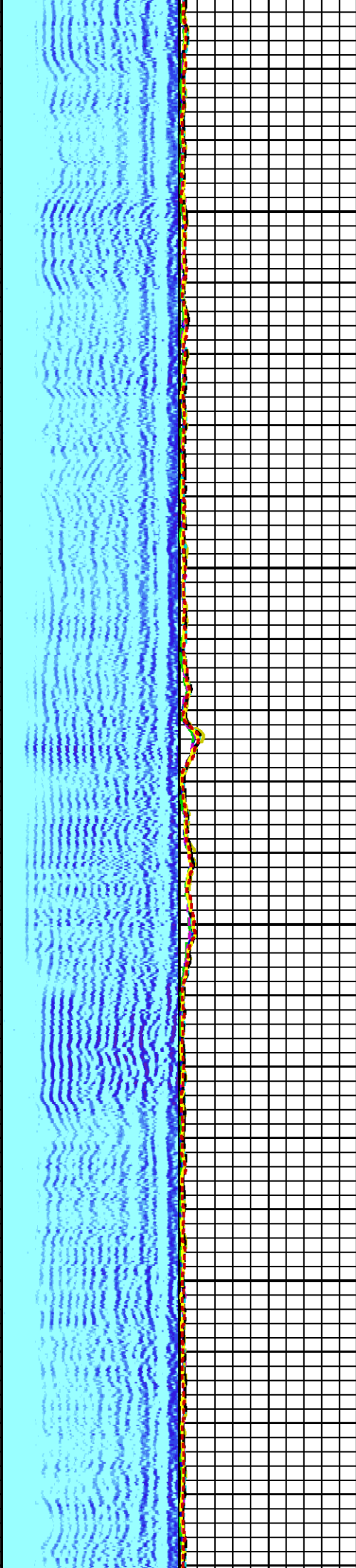
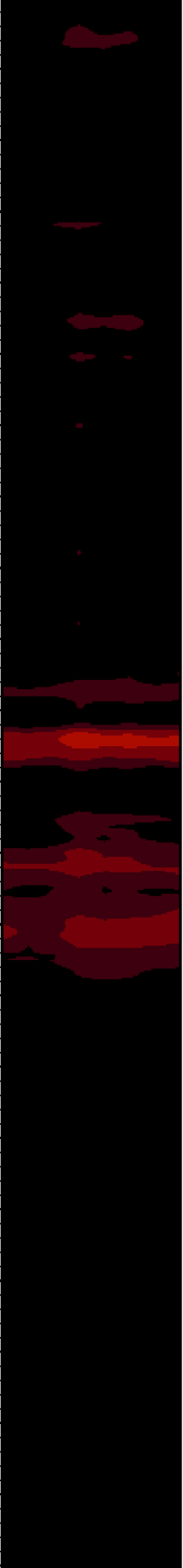
6600

6700

6800

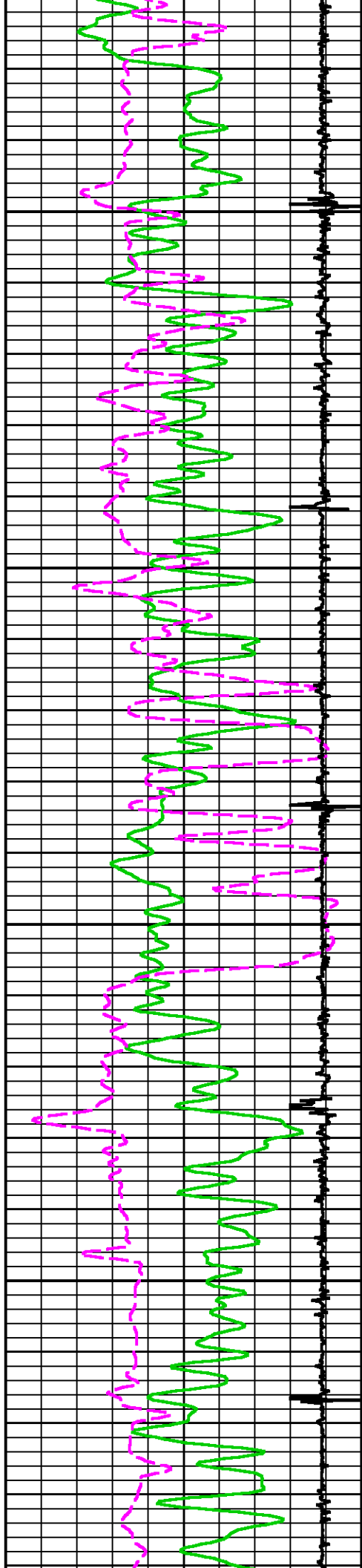


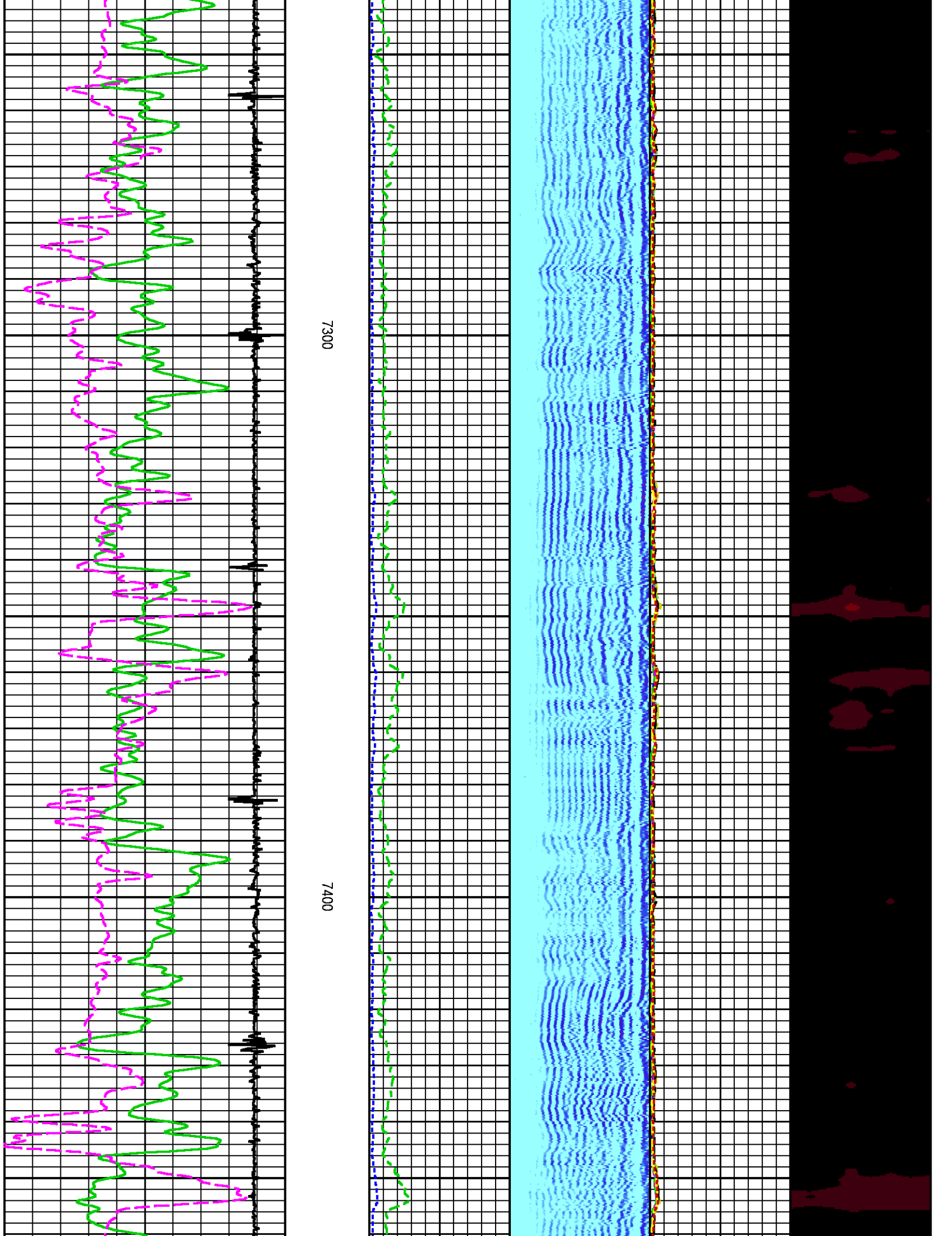


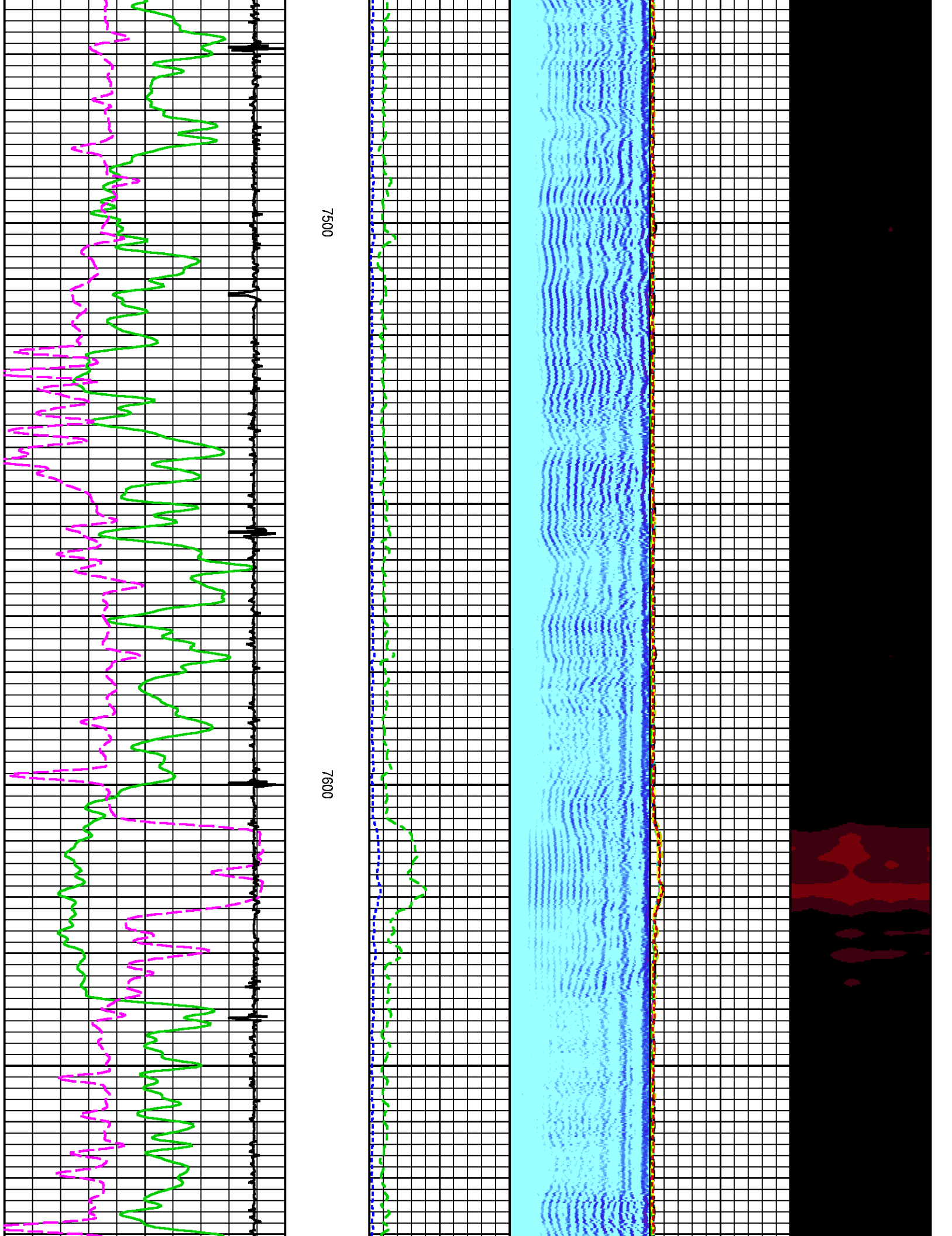


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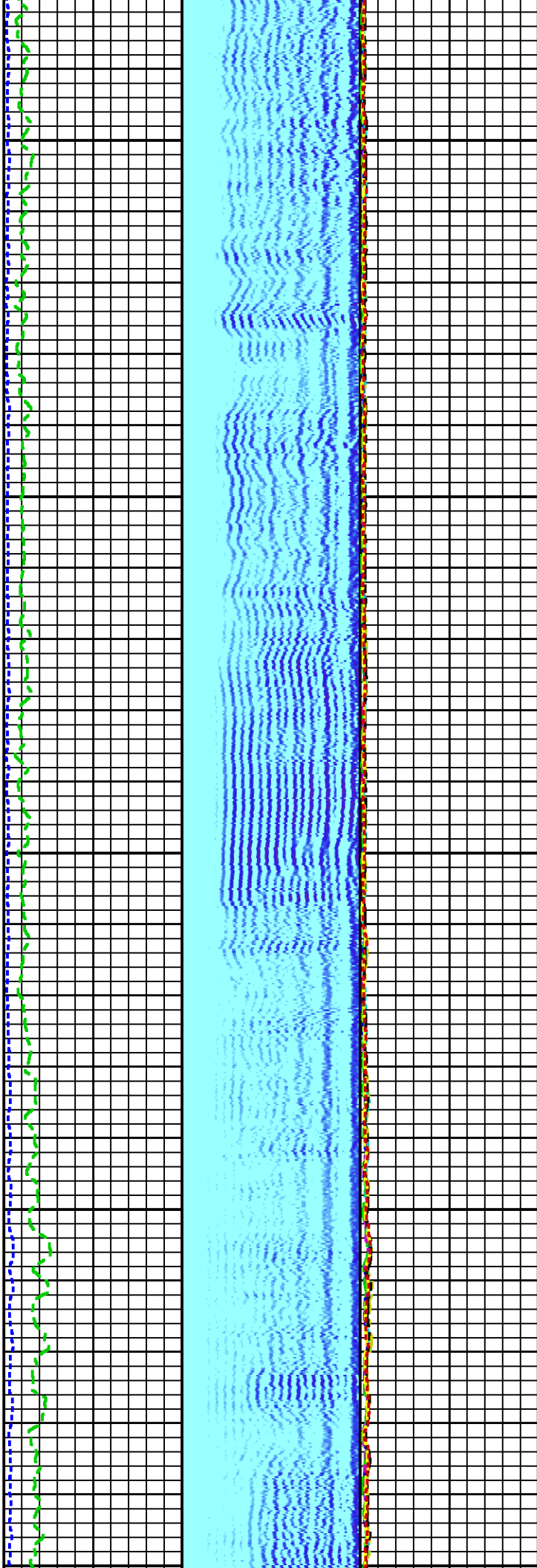
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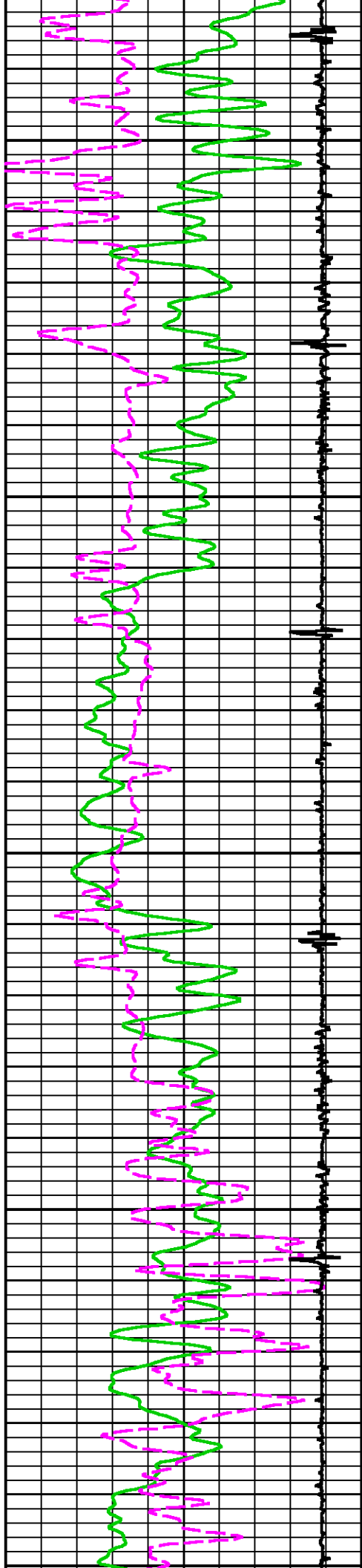
井深 314

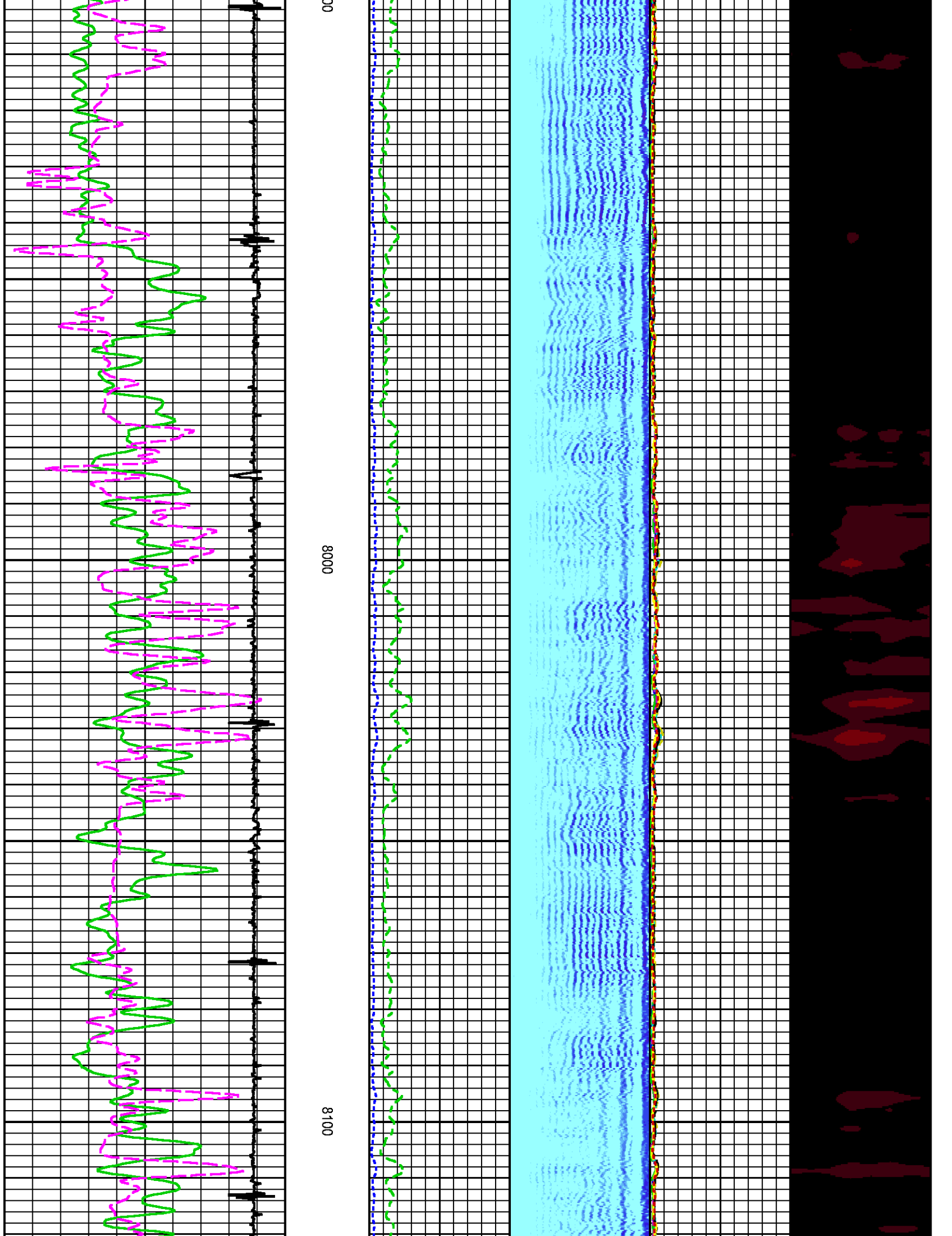


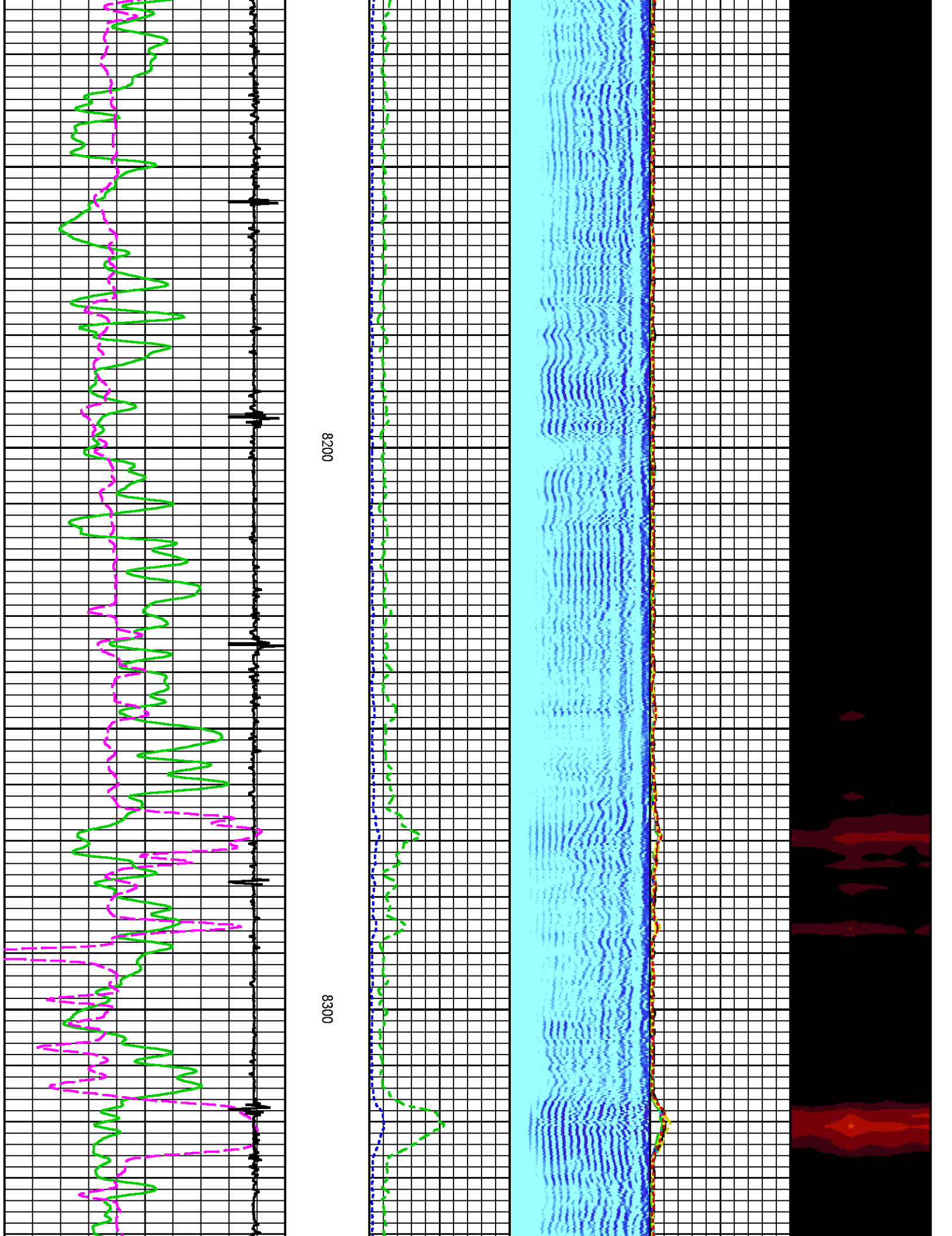
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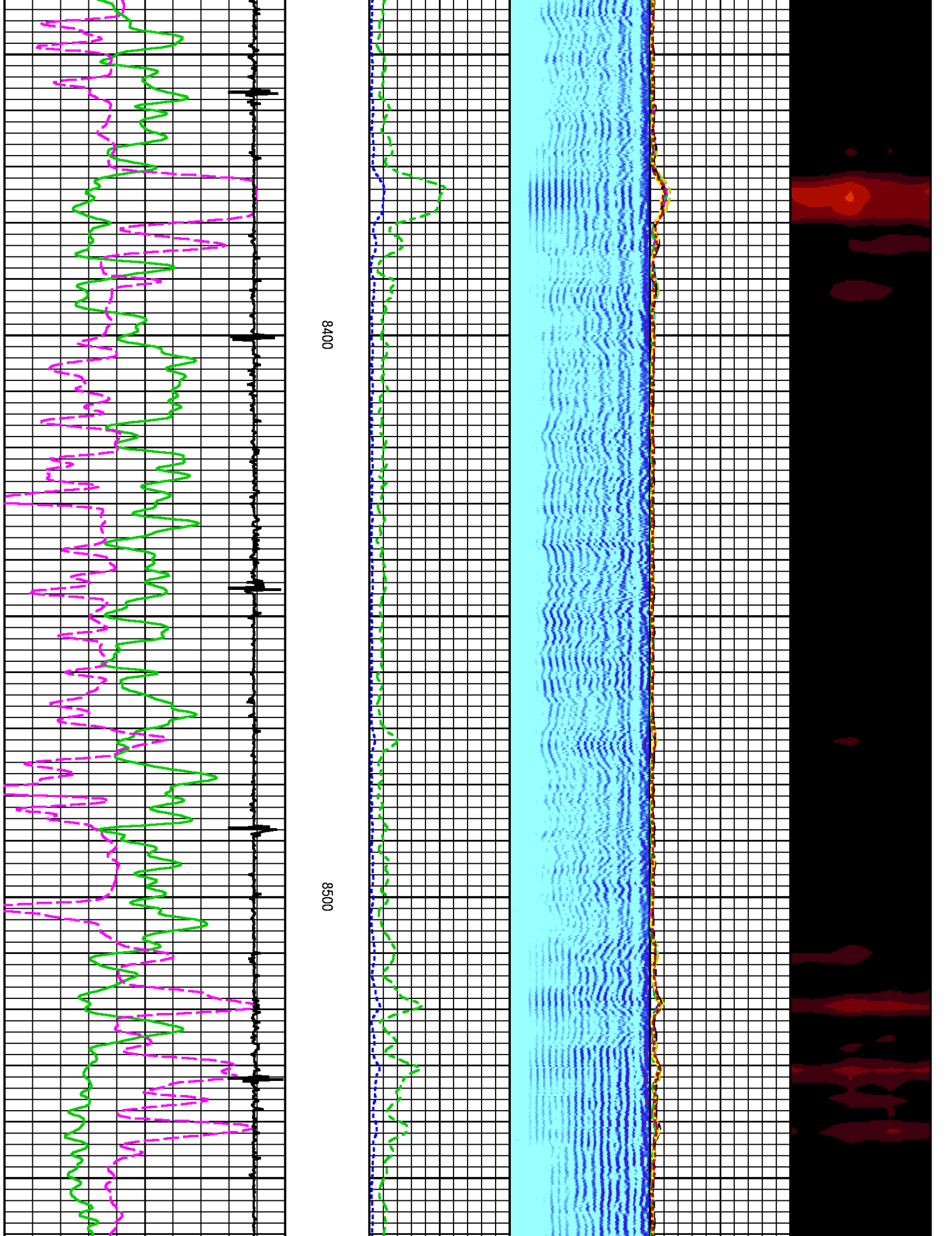
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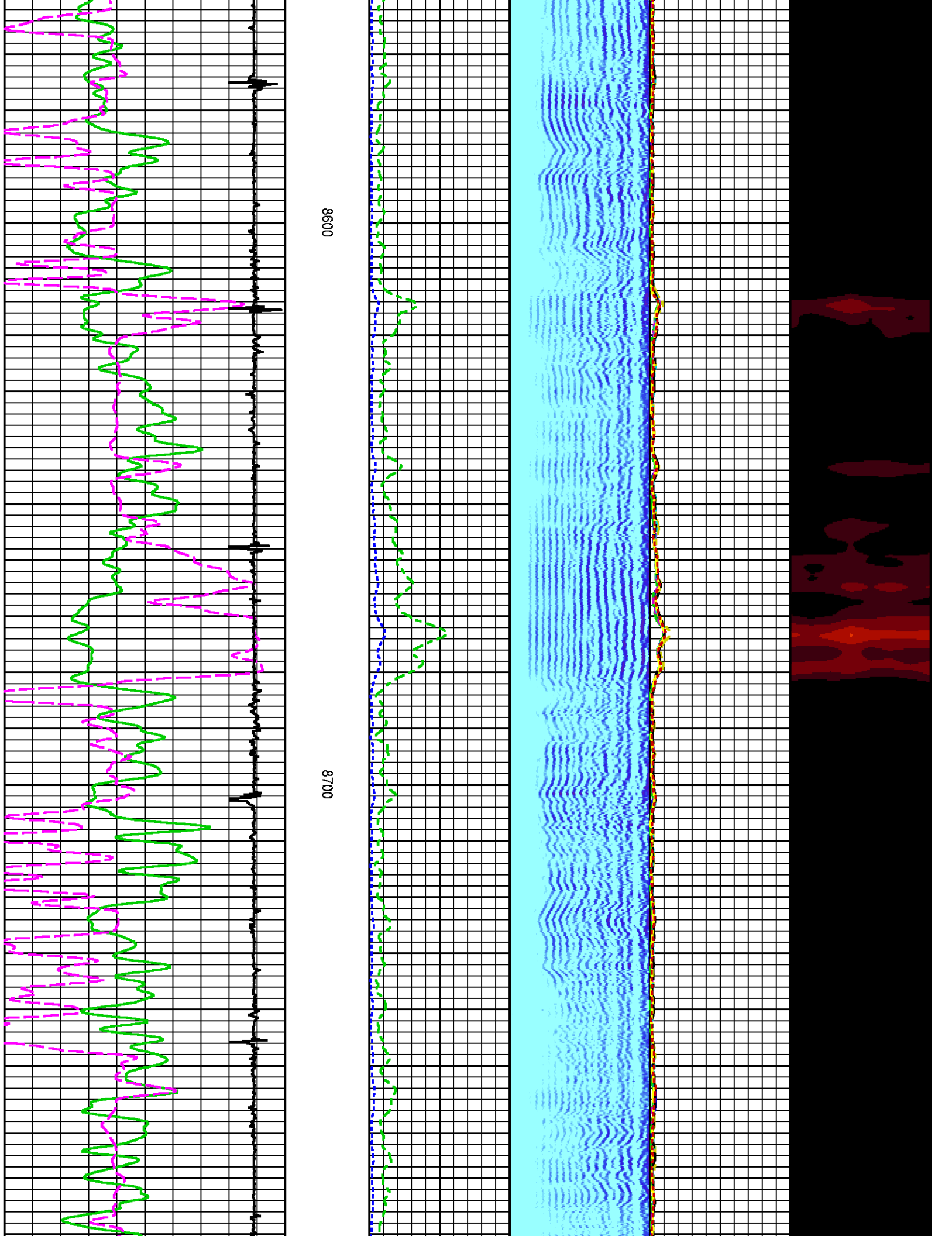
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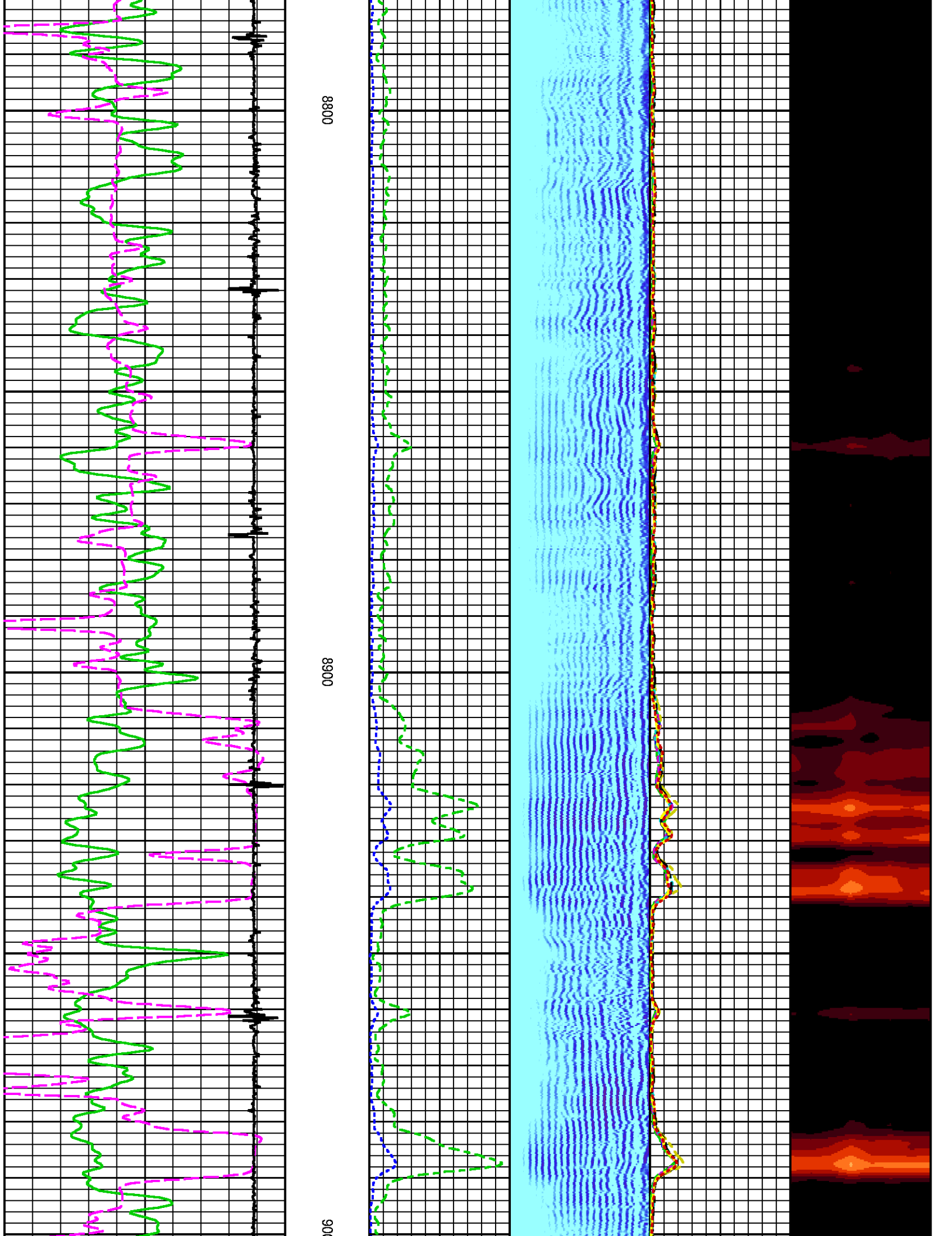


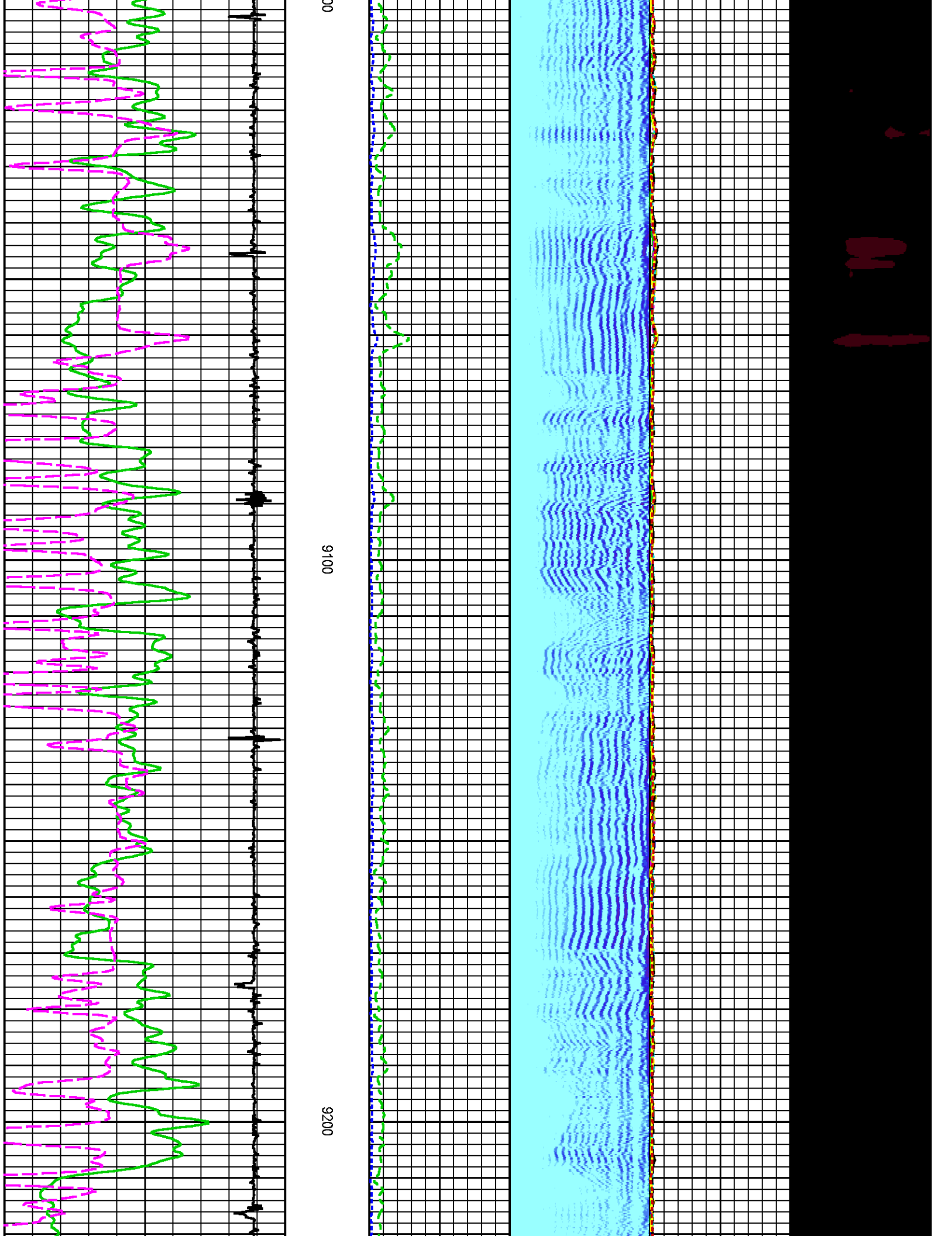


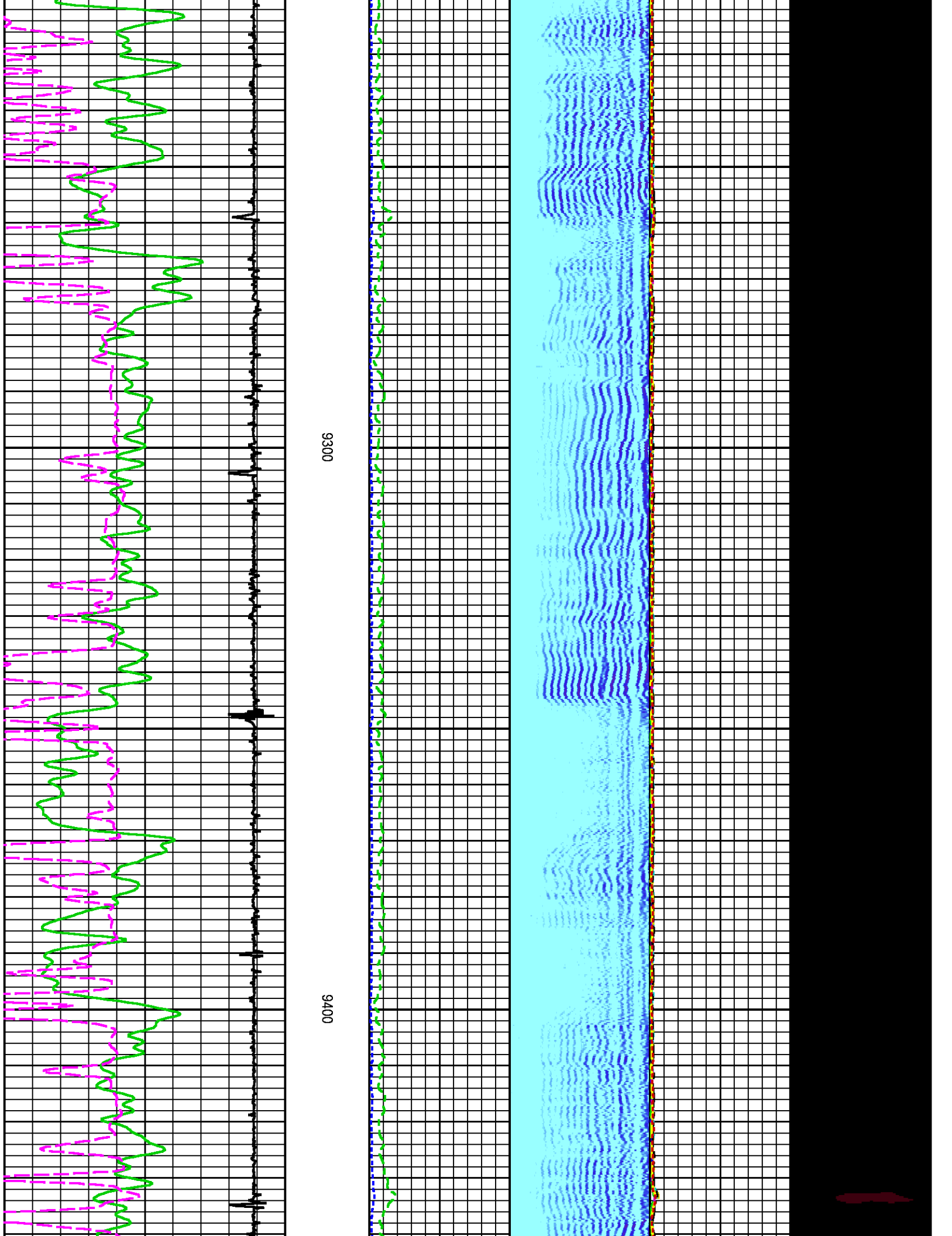


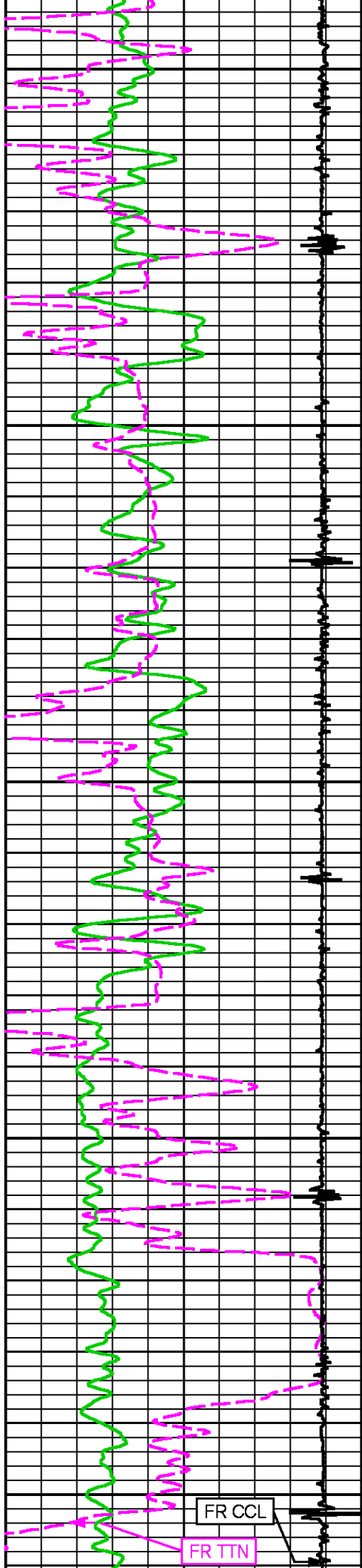






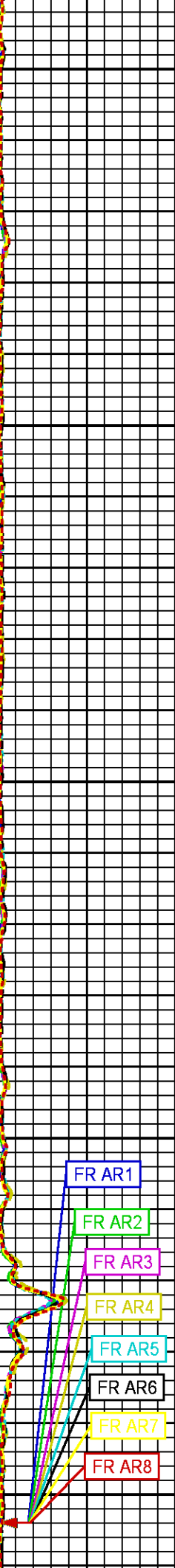
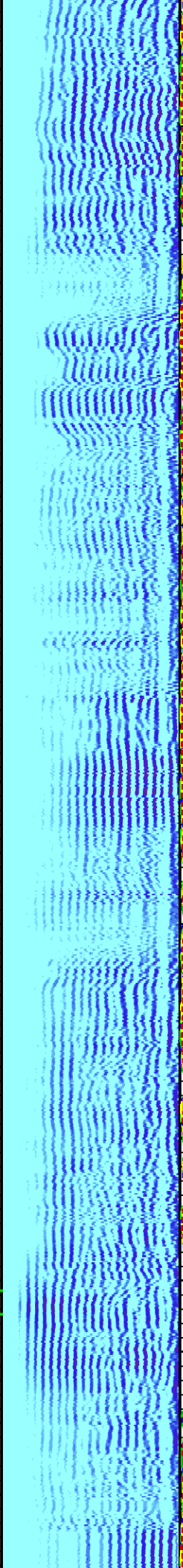
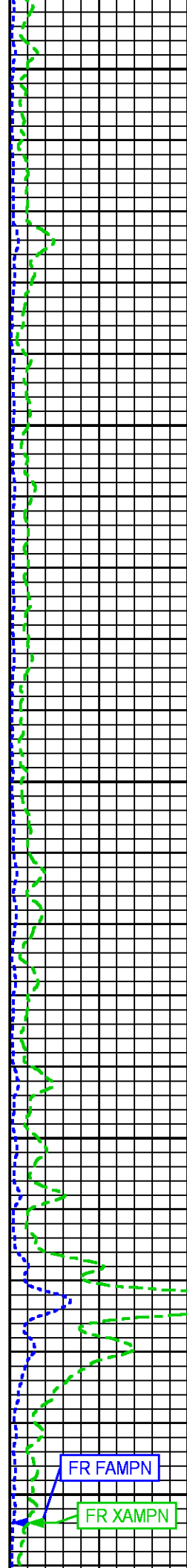


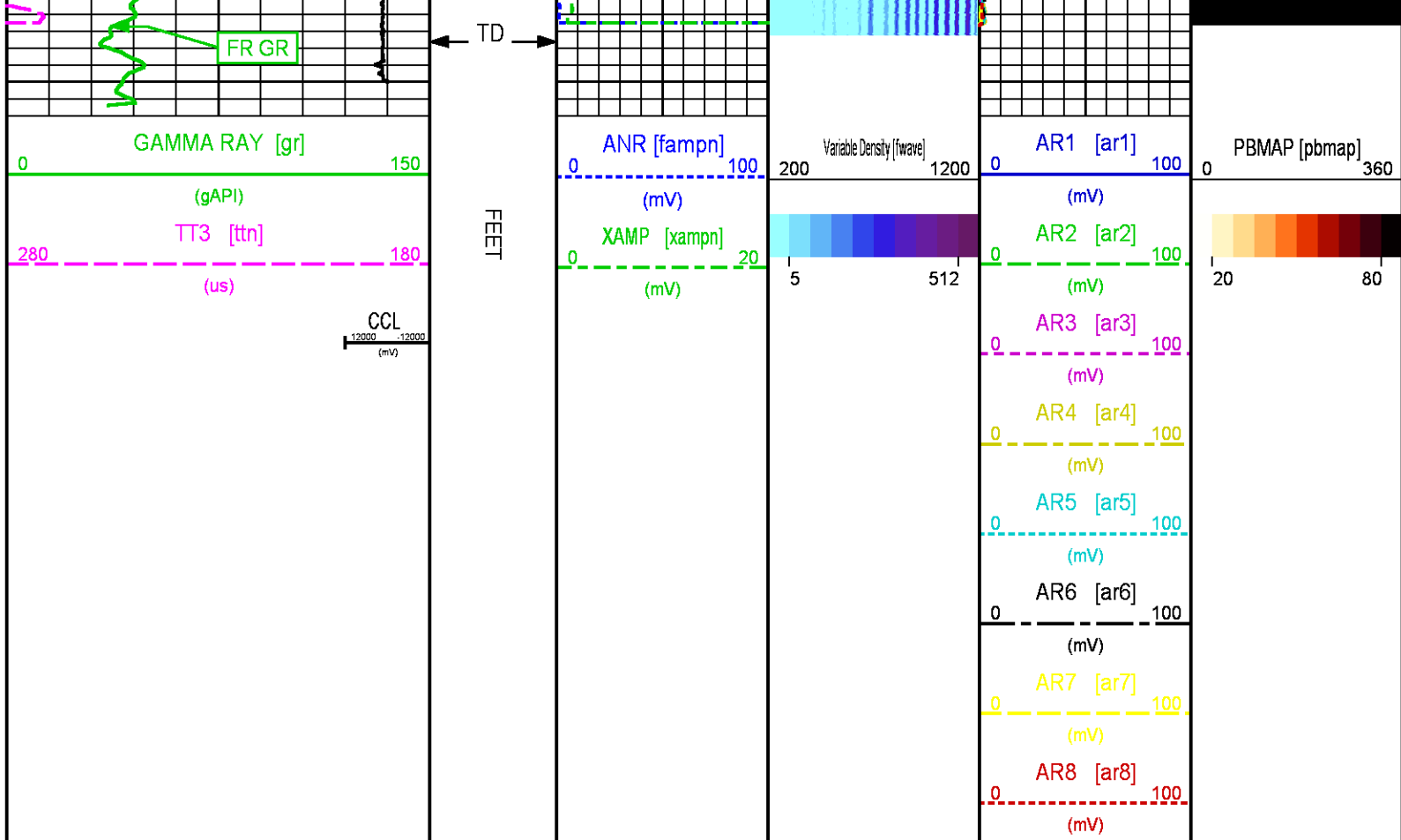




9500

9600





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/TEP_YOUBERG_RU_512-7/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Wed Sep 28 07:54:22 2016

UNIT #: 3880TA HL6670

	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)	-0.05	0.05	-0.01	-0.07	-0.00	-0.08	-0.01	-0.02	-0.02	0.05	-0.00
AMP FLUID (mV)	88	88	88	88	85	86	87	90	89	115	87
TT (us)	216	215	215	217	215	216	214	214	216	323	215
M FACTOR	1.13	1.13	1.13	1.14	1.17	1.16	1.15	1.11	1.12	1.30	1.15

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10417452

DATE/TIME PERFORMED: Wed Sep 28 10:59:43 2016

DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670

CABLE #: 6670SM SMALL6670

NEAR	R1	R2	R3	R4	R5	R6	R7	R8	FAR	CAL
------	----	----	----	----	----	----	----	----	-----	-----

	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)	(mV)
ZERO	-0.05	0.06	0.00	0.01	0.02	0.01	0.02	-0.05	0.06	0.04	-0.02
AMP AIR	0.67	0.07	0.14	0.89	0.86	1.13	1.11	0.39	0.51	0.44	101.40

SHOP	SHOP	WIREFINE
M FACTOR	A FACTOR	FACTOR
1.15	0.00	0.99

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 12670181 DATE/TIME PERFORMED: Sat Sep 24 07:36:43 2016

UNIT #: 3880TA HL6670 CALB JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	CR DIFF (cts/s)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	80.31	325.69	245.4	0.611	49.09	199.09	150

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 12670181 DATE/TIME PERFORMED: Sat Sep 24 07:38:10 2016

UNIT #: 3880TA HL6670 VERI JIG #: 4702NK WA-612

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	81.58	316.36	0.611	49.87	193.39	143.52
						140.00 160.00

INSTRUMENT CONFIGURATION

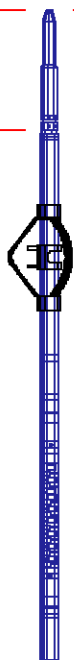
Source File: /dat1a/TEP_YOUBERG_RU_412-7/n012g~tdg

CABLEHEAD

Diameter : 2.75"
Length : 2.25'
Weight : 10 lbs
Series : CABL234

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



20.38'

NEAR RCVR 11.17'

FAR RCVR 10.21'


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: 20.38'
 TOTAL WEIGHT: 235 lbs
 MAX DIAMETER: 0'4.00"

	COMPANY <u>TEP ROCKY MOUNTAIN LLC</u> WELL <u>YOUNBERG RU 512-7</u> FIELD <u>RULISON</u> COUNTY _____ STATE _____	FILE NO: _____ API NO: <u>05045231280000</u>
	LOCATION: SHL: 2001' FNL & 1897' FWL BHL: 1120' FNL & 203' SEC <u>7</u> TWP <u>7S</u> RGE <u>93W</u>	ELEVATIONS: KB 7363 FT DF GL 7339 FT DATE <u>28-SEP-2016</u>