



FILE NO:	COMPANY
CO097897	LARAMIE ENERGY
API NO:	WELL
05077097590000	GUNDERSON 29-07E
	FIELD
	VEGA
	COUNTY
	MESA
	STATE
	COLORADO

Ver. 4.01	LOCATION:	OTHER SERVICES
SEC 29 T9S R93W	SHL: 2397 FNL & 1170 FEL	RPM
PAD 29-09	BHL: 1642 FNL & 848 FEL	
PATTERSON 306	SEC 29	TWP 9S
		RGE 93W

PERMANENT DATUM	GL	ELEVATION	7631 FT	ELEVATIONS:
LOG MEASURED FROM	KB	22 FT	ABOVE P.D.	KB 7653 FT
DRILL. MEAS. FROM	KB			DF
				GL 7631 FT

DATE	23-Jul-2015
RUN	1
TRIP	1
SERVICE ORDER	US097897
DEPTH DRILLER	7879 FT
DEPTH LOGGER	7621 FT
BOTTOM LOGGED INTERVAL	7611 FT
TOP LOGGED INTERVAL	22 FT
TIME STARTED	7:30
TIME FINISHED	10:30
OPERATOR RIG TIME	3 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	44 FT
LOGGED CEMENT TOP	NA
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	100 F/MN
MAX. RECORDED TEMP.	242 DEGF
REFERENCE LOG	NONE
REFERENCE LOG DATE	NA
EQUIP. NO.	6670
LOCATION	GRAND JCT.
RECORDED BY	P. EDWARDS
WITNESSED BY	JOHN GRUBICH

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
7.875 IN	22 FT	7879 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F		22 FT	7879 FT

REMARKS

RUN 1 TRIP 1: THIS IS THE FIRST LOG ON THIS WELL.

LOGGED WITH ZERO PSI AT WELLHEAD

BHT = 242 degF

SJ = 5910' - 5931'

SJ = 6812' - 6834'

THANK YOU FOR CHOOSING BAKER HUGHES ... THE BEST CHOICE!

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CD	1122X1	12121122	CD

1	1	CBL	1426XA	10124103	CENTRALIZED
1	1	CCL/GR	1355XA	10580209	CENTRALIZED

MAIN PRESENTATION 0 PSI

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

Updates: 1 Patches: 6

Plotted: Thu Jul 23 10:34:47 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH097897/n012g02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 20.750 ft BOTTOM DEPTH: 7641.161 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*)	185	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	185	us	"	"
	AMP WINDOW START (fgp3*)	185	us	"	"
	AMP WINDOW START (fgp4*)	185	us	"	"
	AMP WINDOW START (fgp5*)	185	us	"	"
	AMP WINDOW START (fgp6*)	185	us	"	"
	AMP WINDOW START (fgp7*)	185	us	"	"
	AMP WINDOW START (fgp8*)	185	us	"	"
	AMP WINDOW START (fgpn*)	185	us	"	"
TRAVEL TIME WINDOW (NEAR)	AMP WINDOW LENGTH	30	us	"	"
	TT WINDOW START (ttn*)	171	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	133	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	"	"

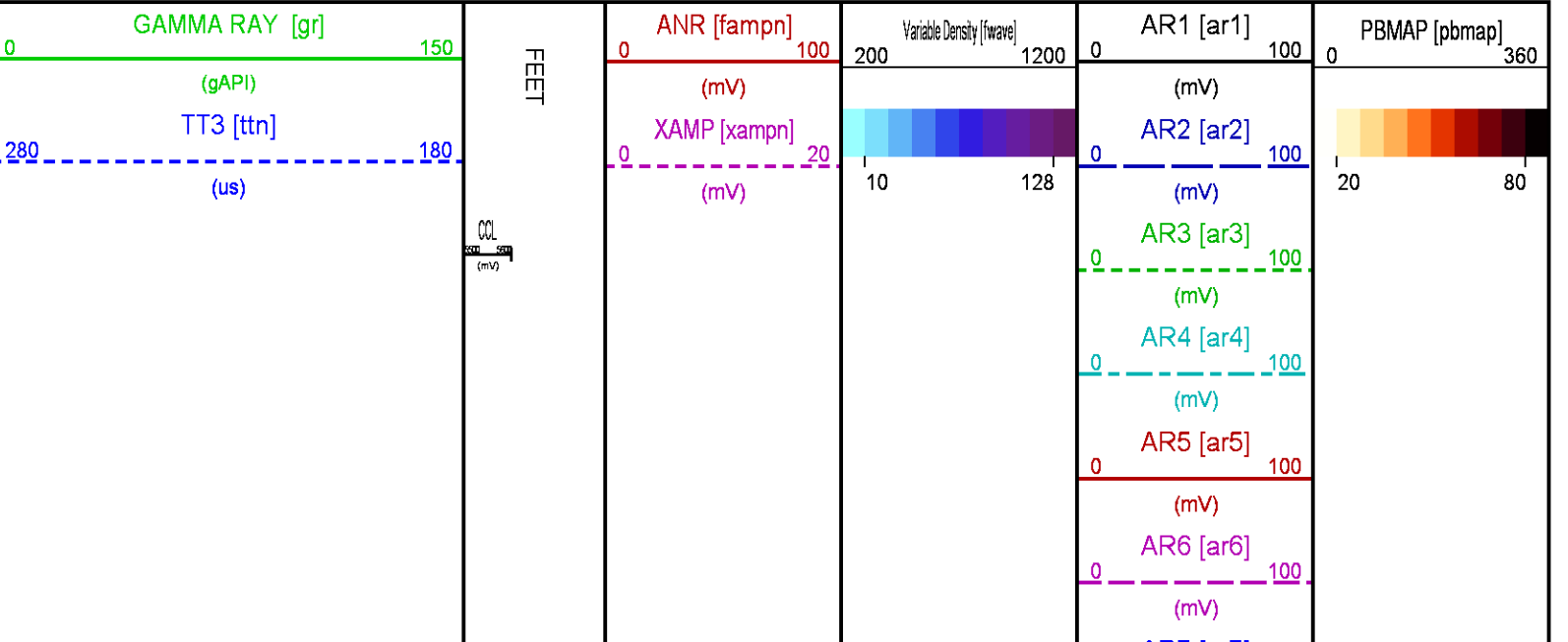
CURVE DESCRIPTION REPORT

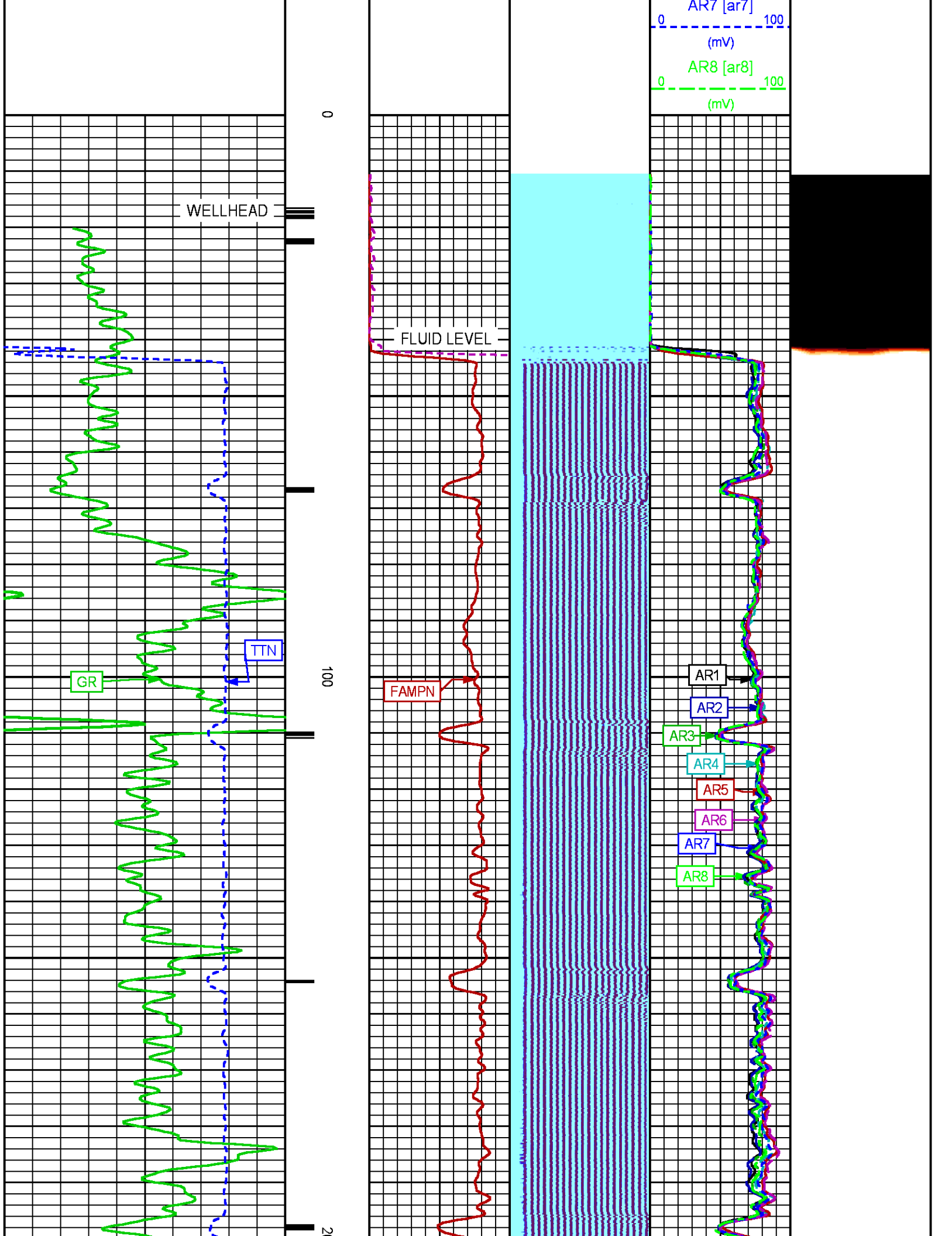
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
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F1:AR2	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 23 08:33:42 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 23 08:33:42 2015	FAR WAVE FORM
F1:GR	Jul 23 08:33:42 2015	GAMMA RAY
F1:PBMAP	Jul 23 08:33:42 2015	PERCENT BOND CEMENT MAP
F1:TTN	Jul 23 08:33:42 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 23 08:33:42 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

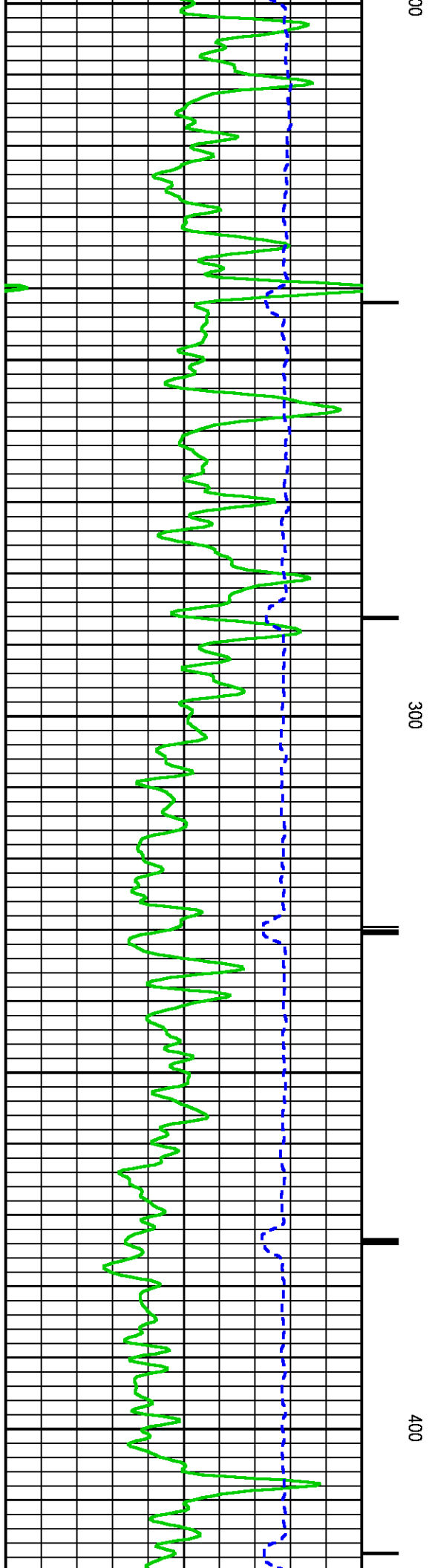
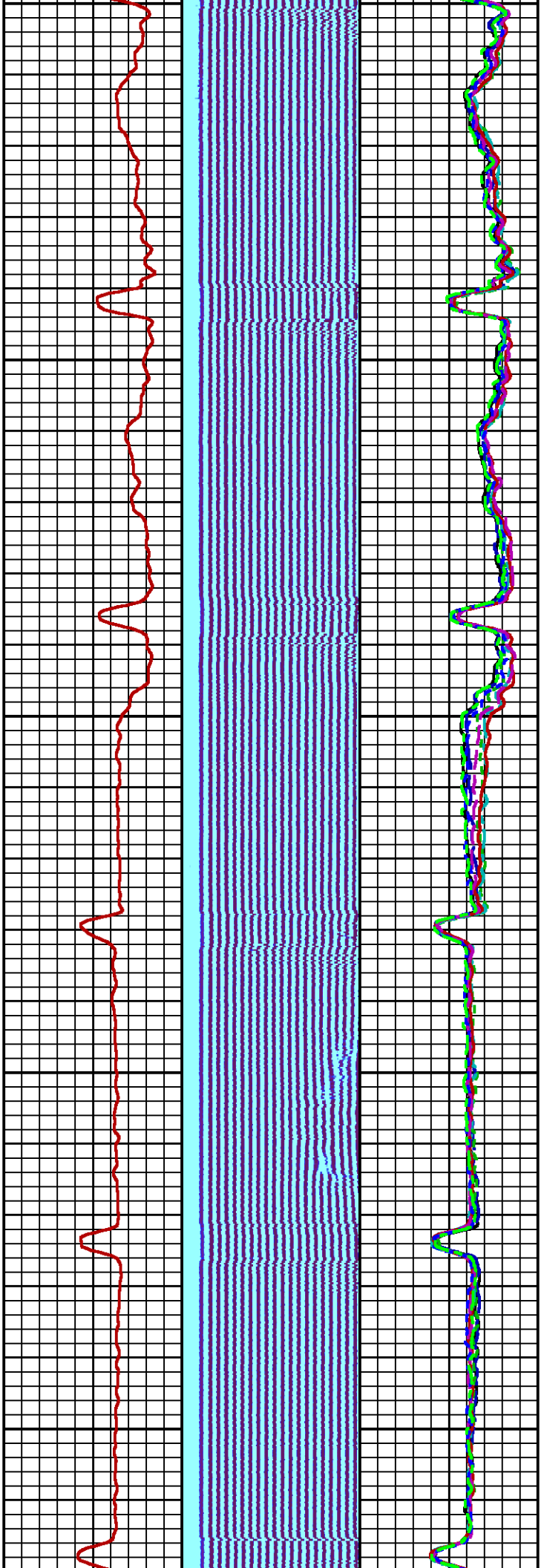
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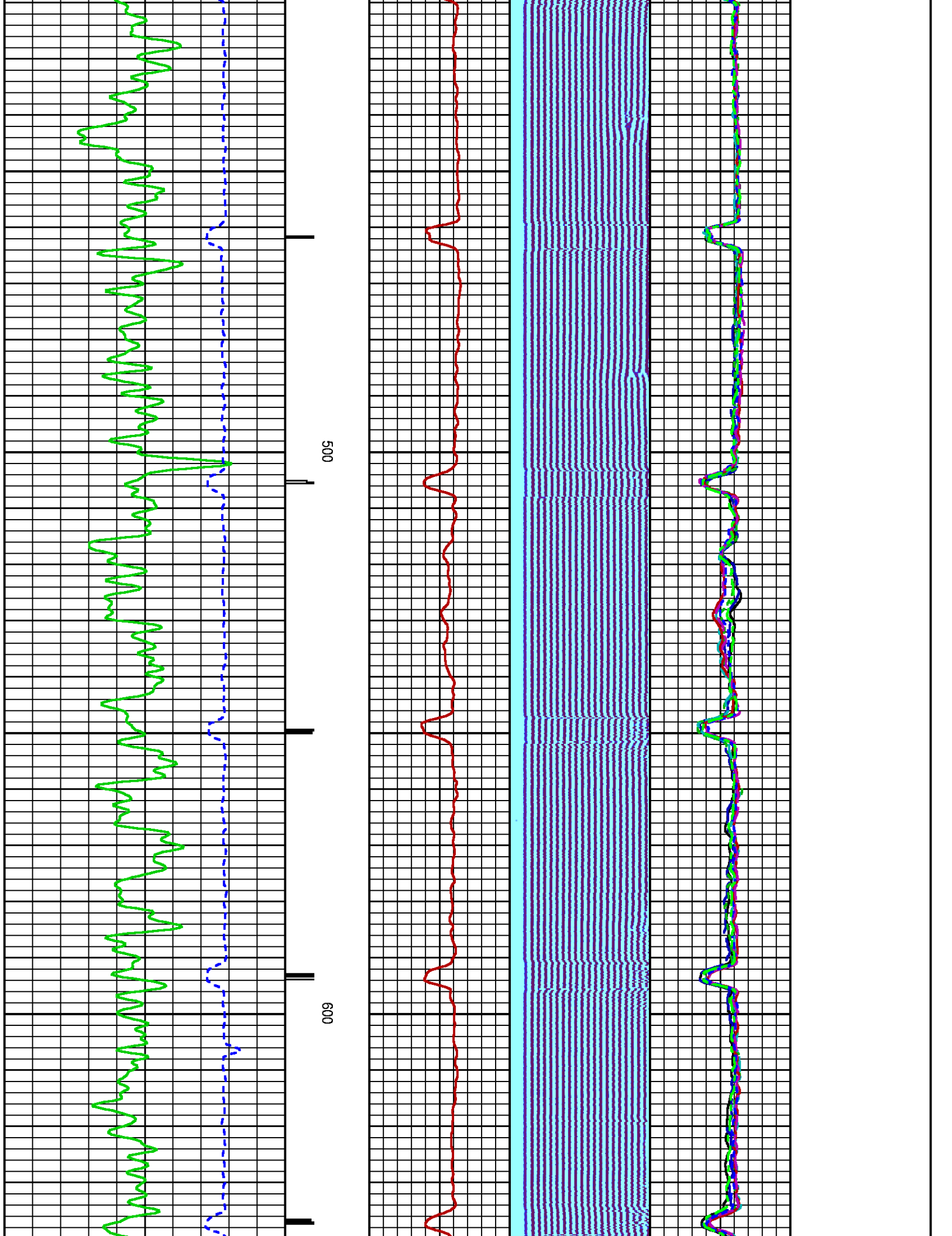
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

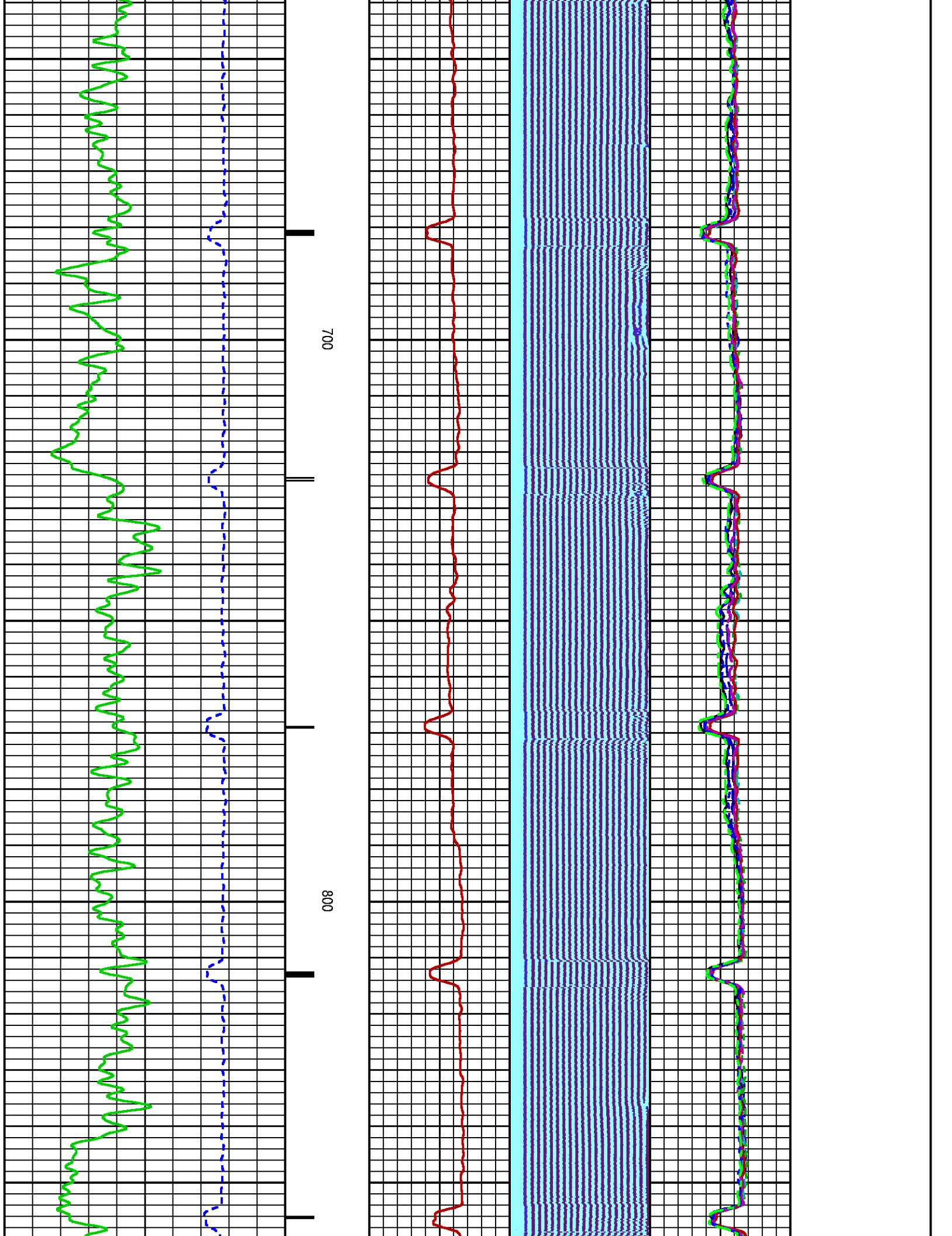
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Plot Interval	: 0 - 7626 Feet
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Created On	: Jul 23 08:33:42 2015
Company	: LARAMIE ENERGY
Well	: GUNDERSON 29-07E
Field	: VEGA
File Interval	: 9.5 - 7637.75 Feet
OCT	: n012g

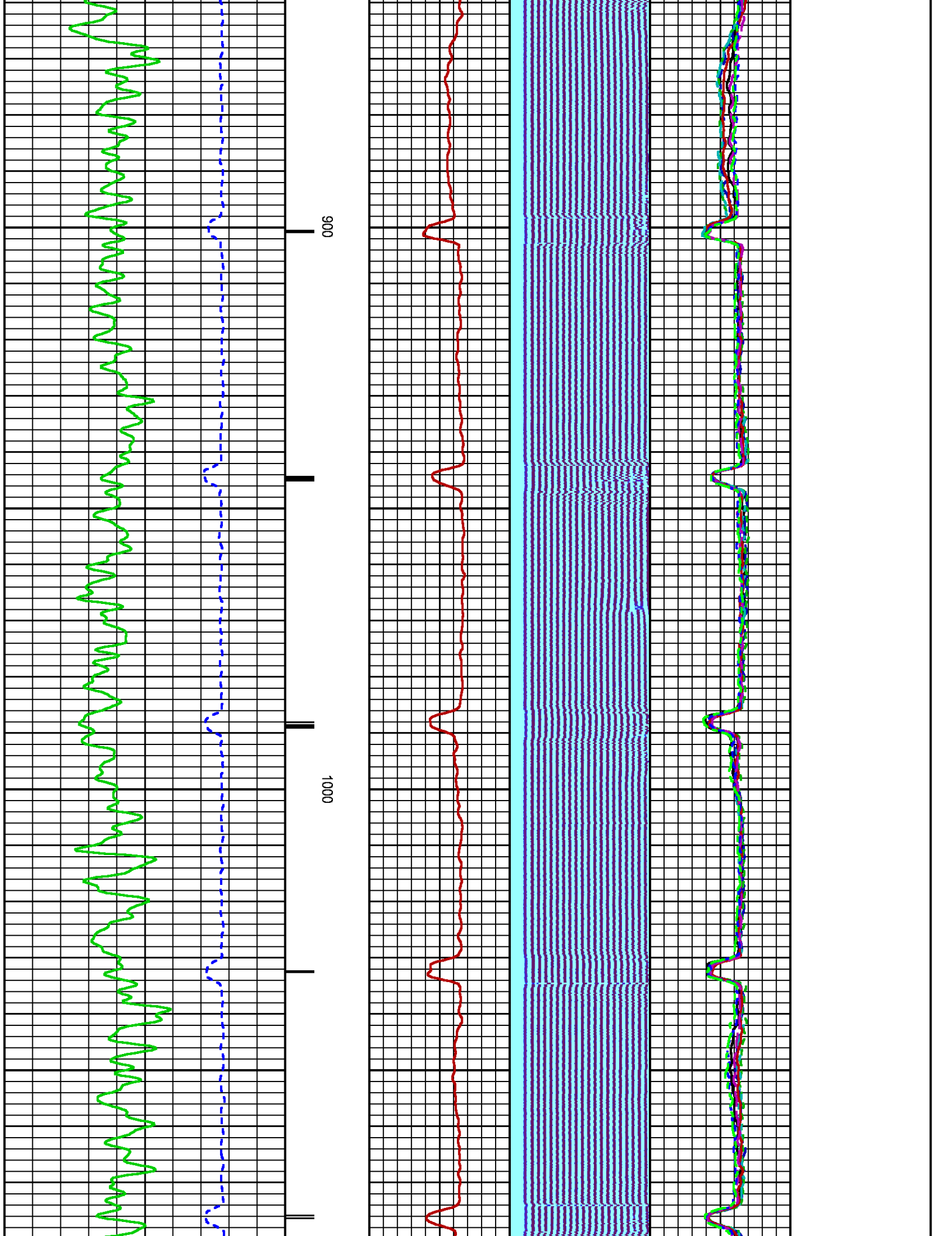


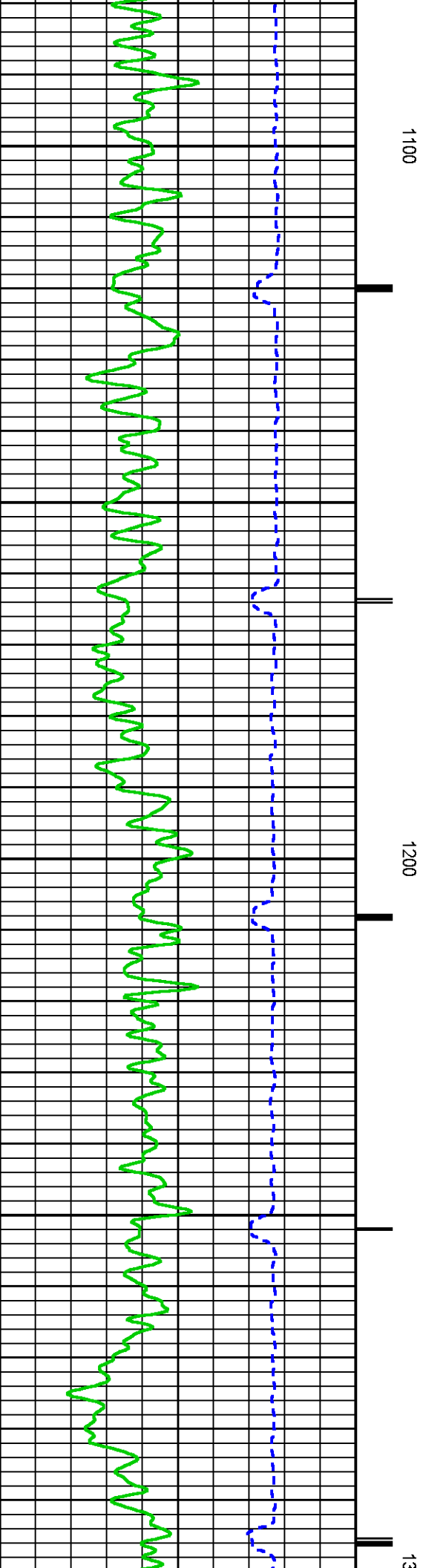
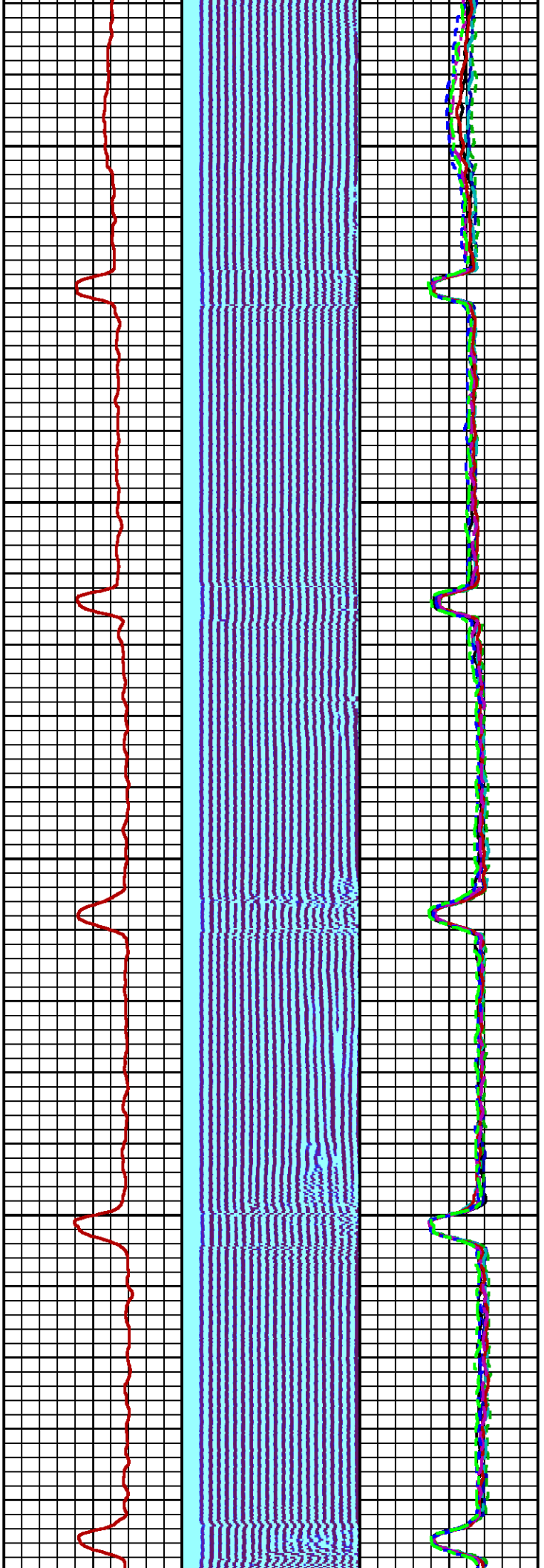


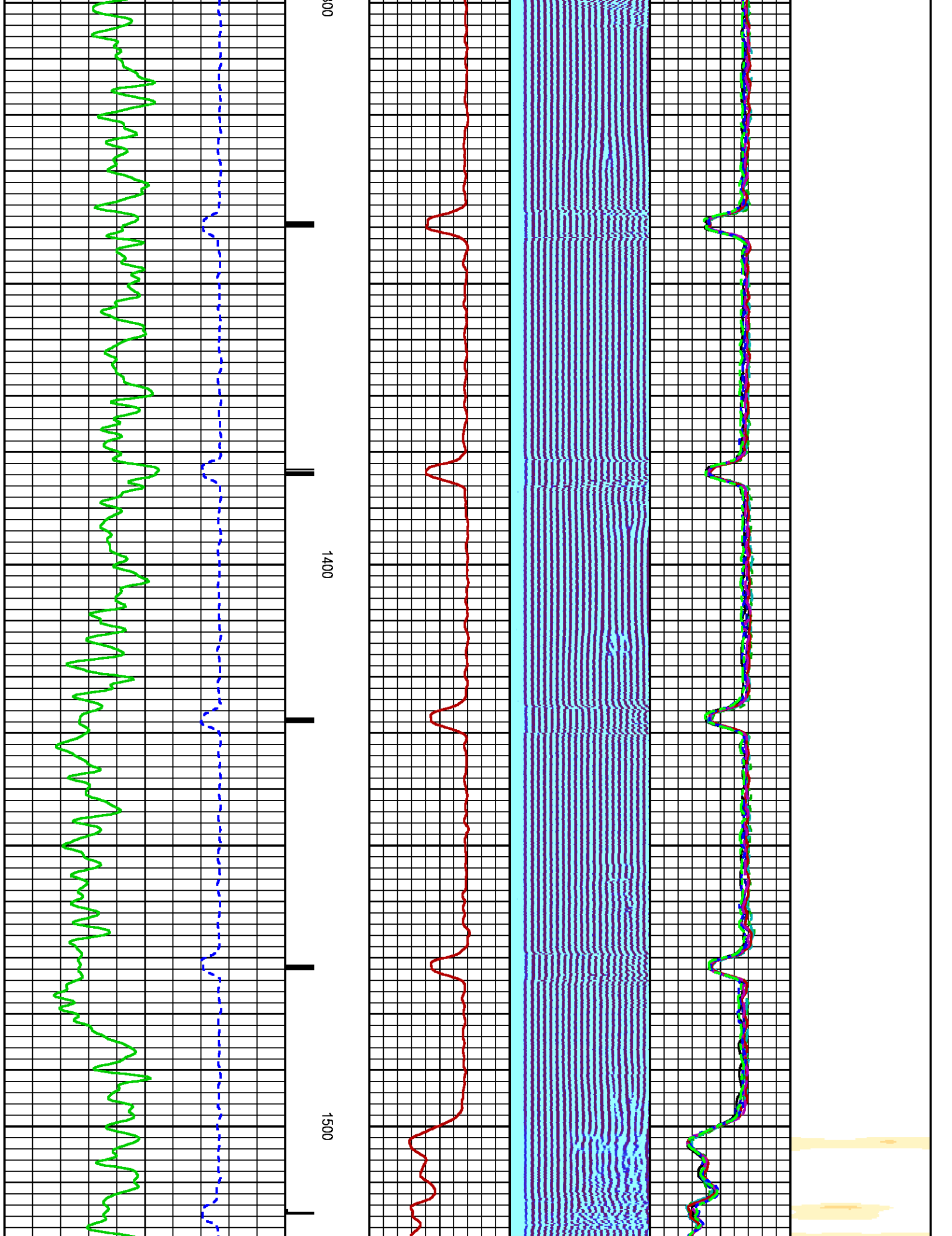


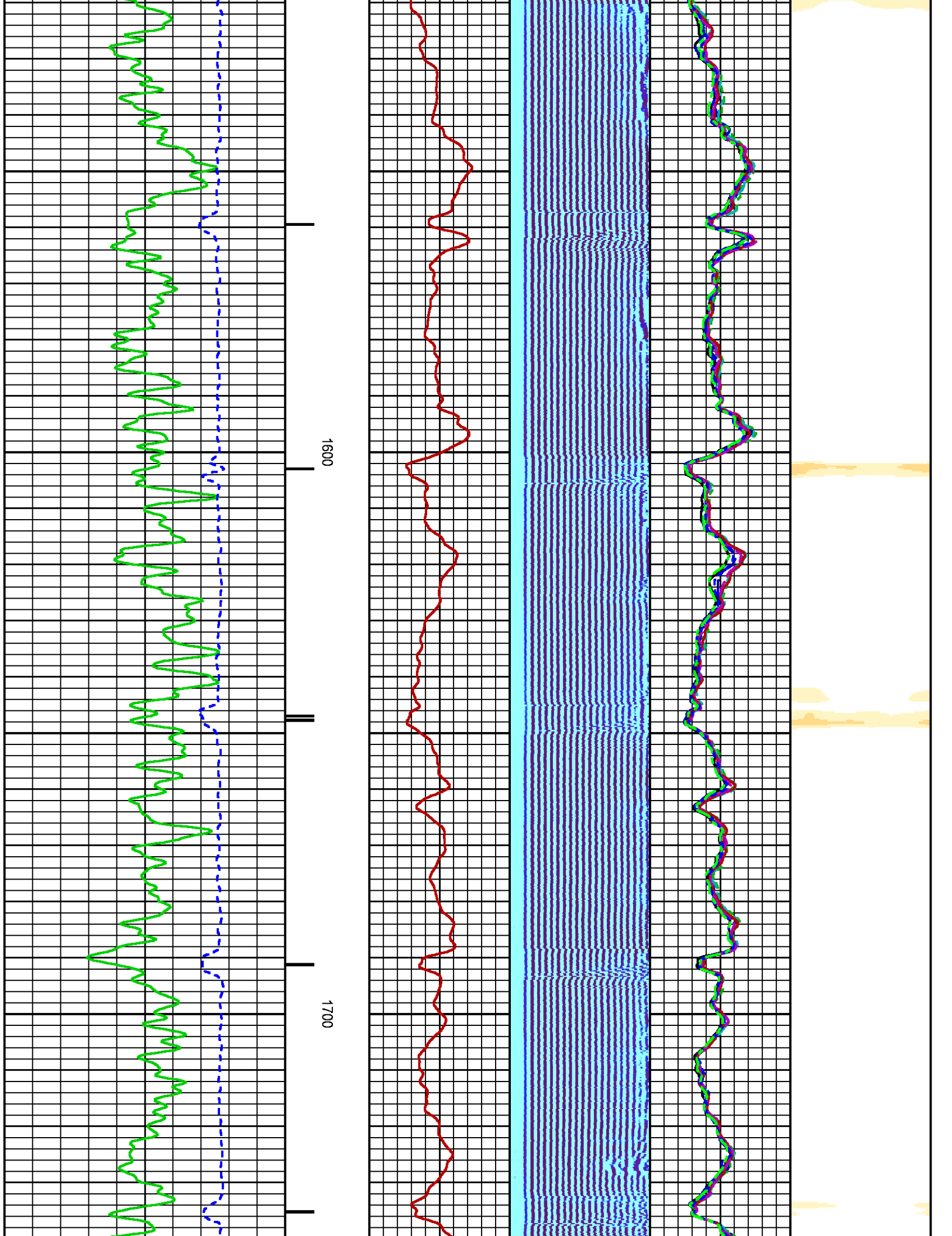


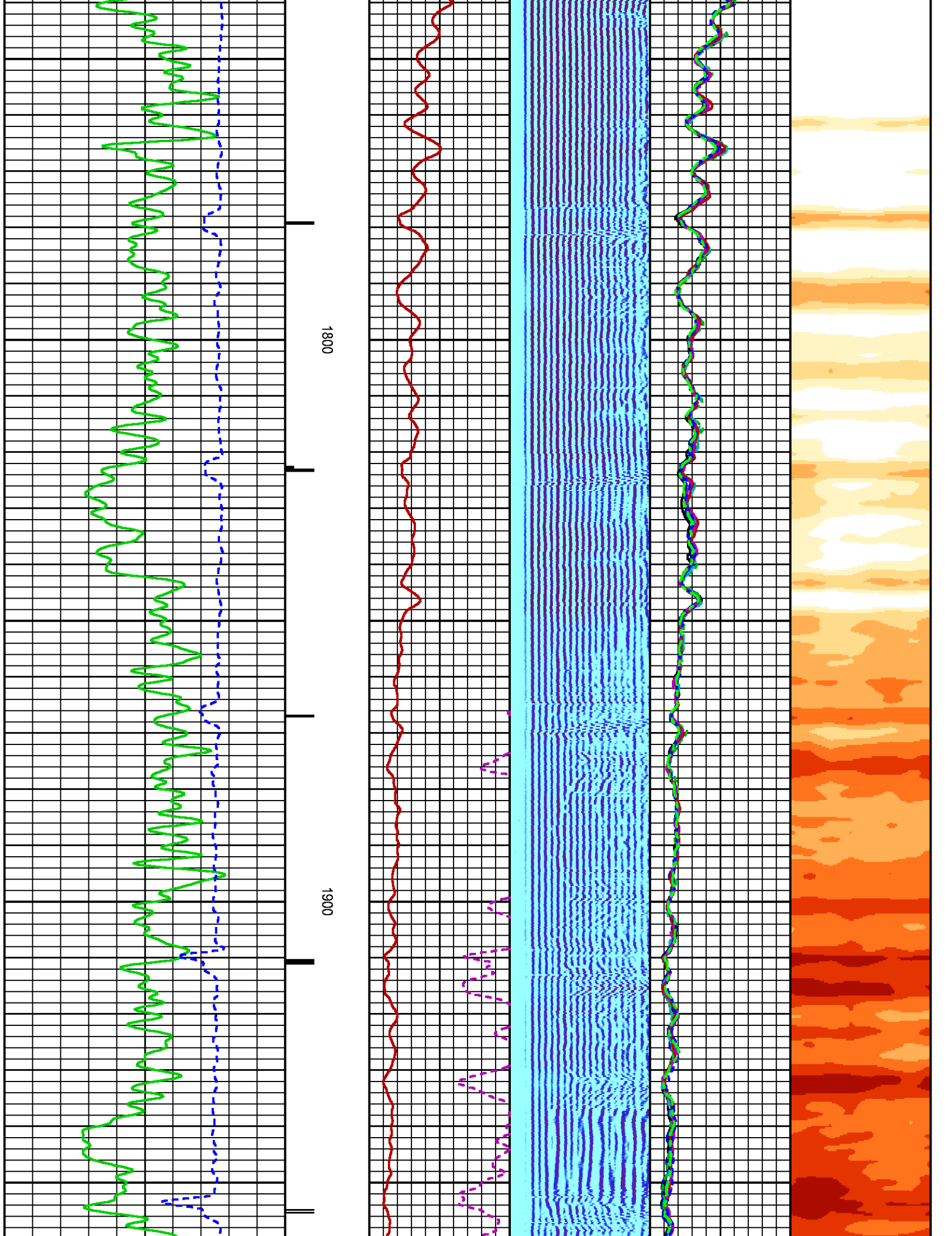


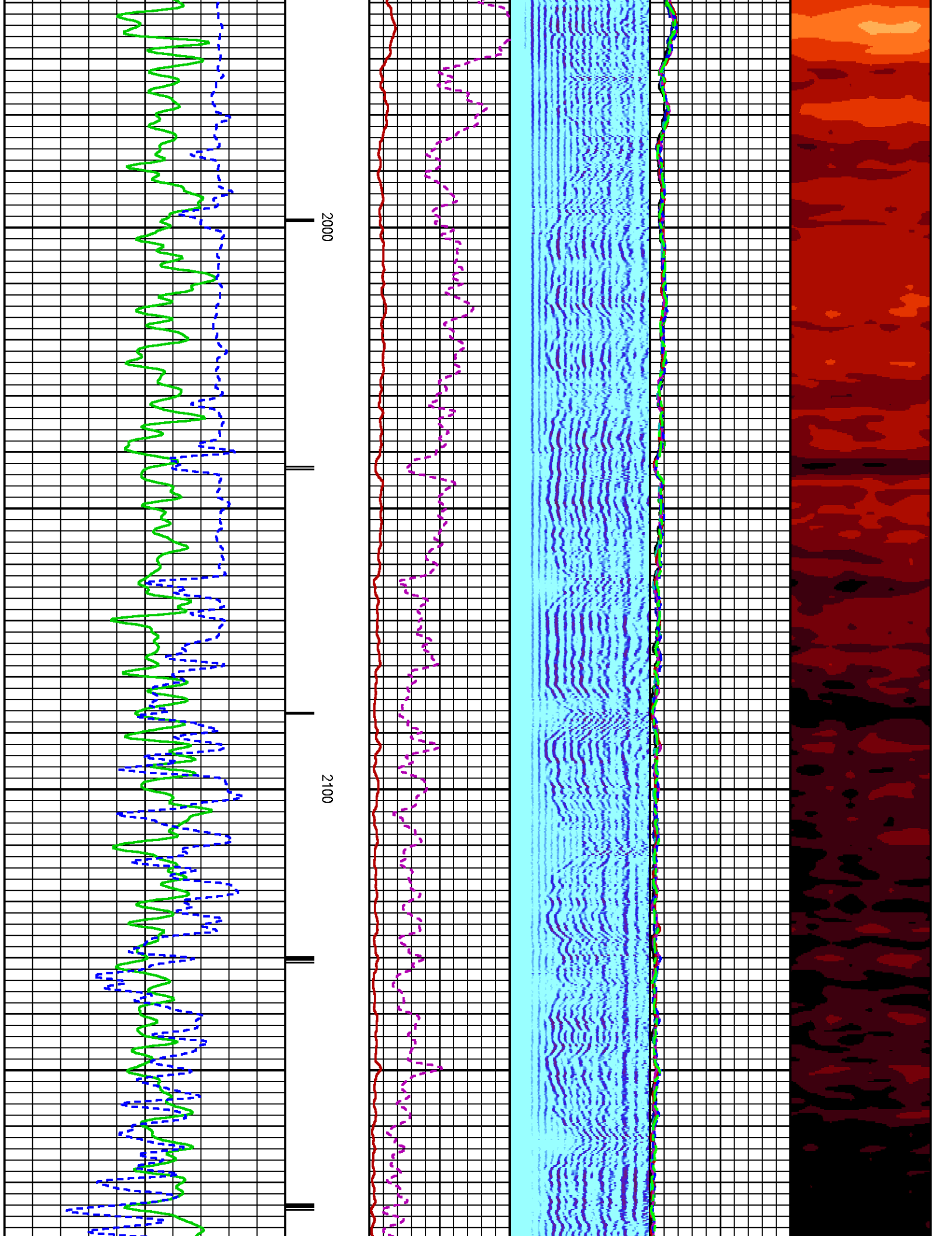


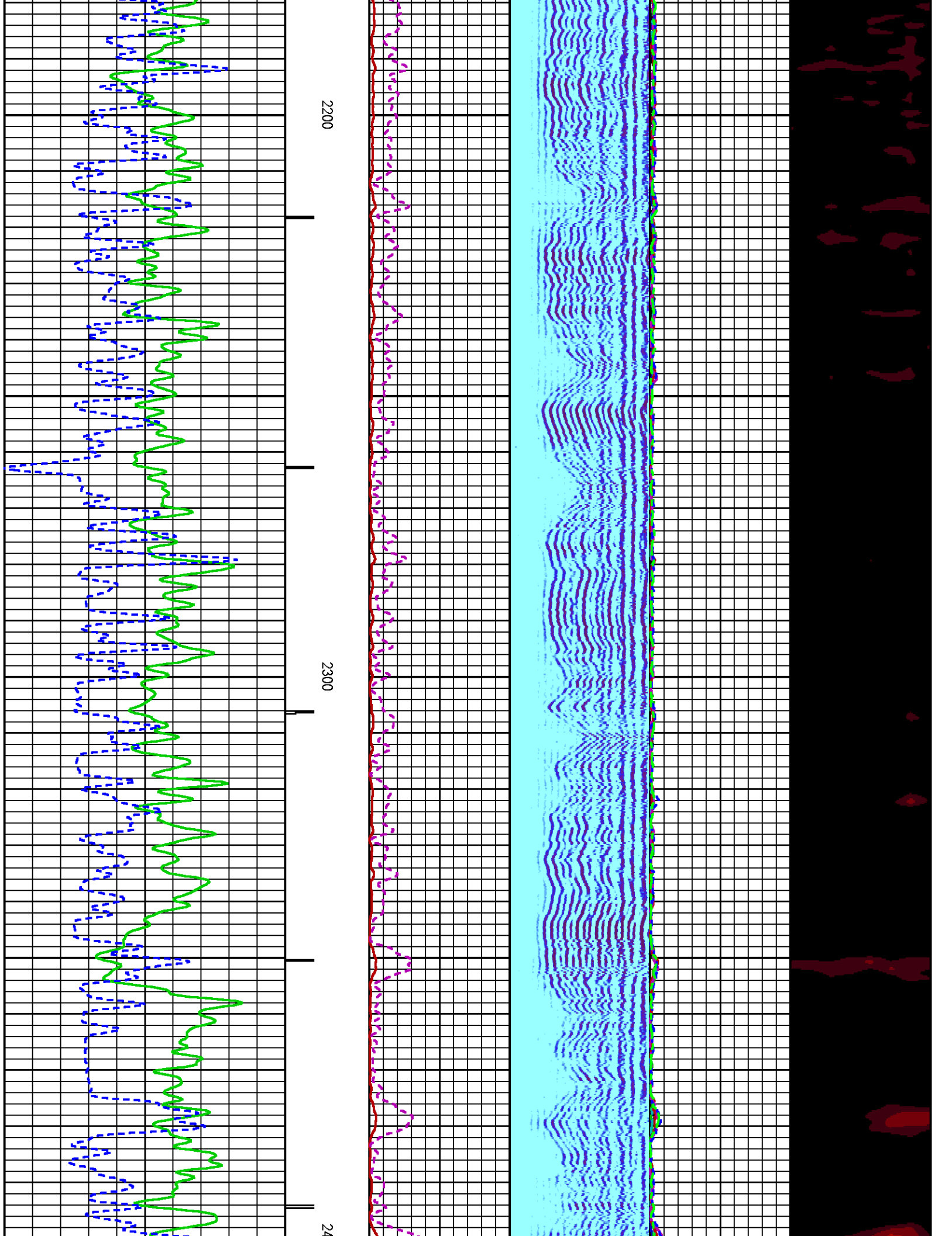


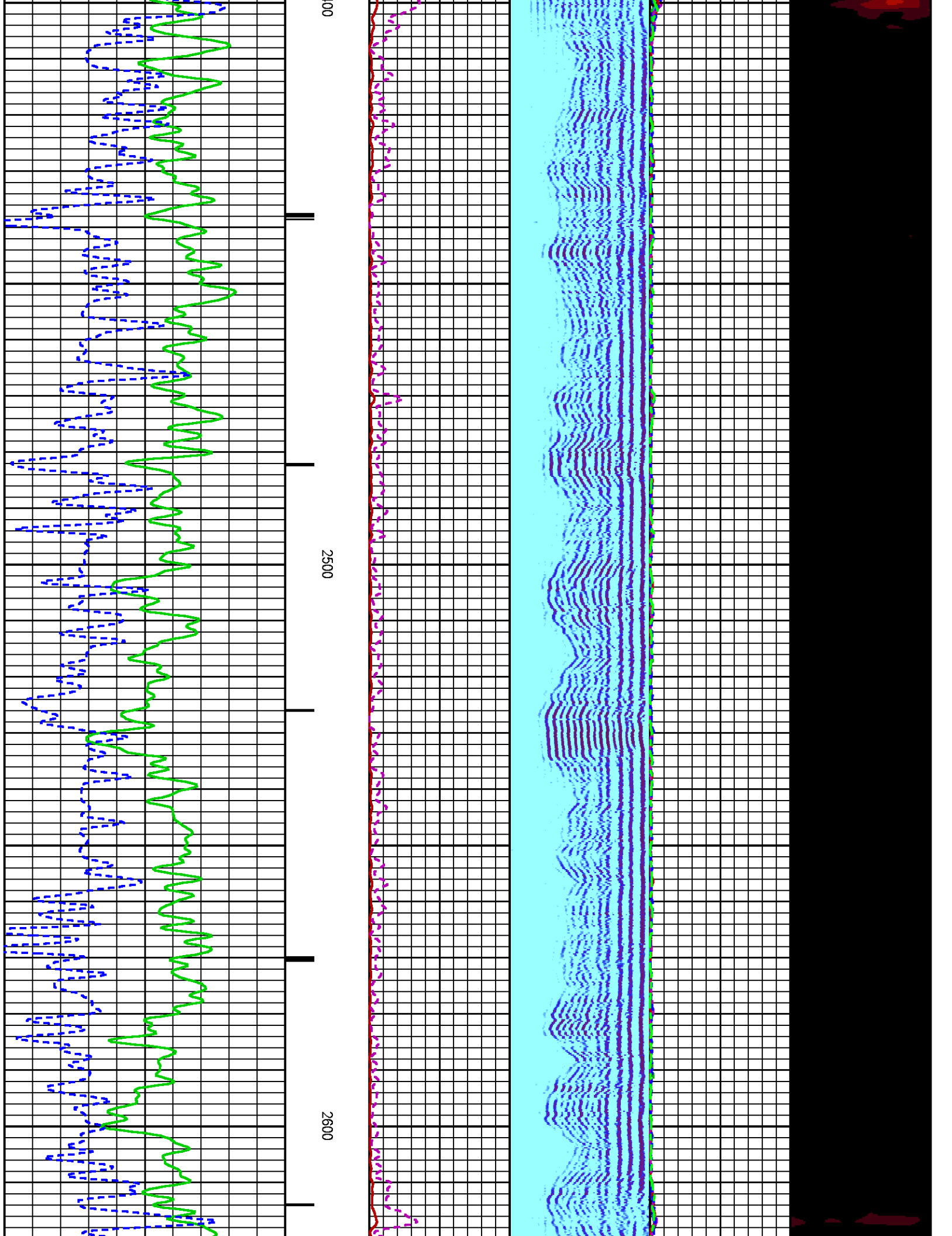


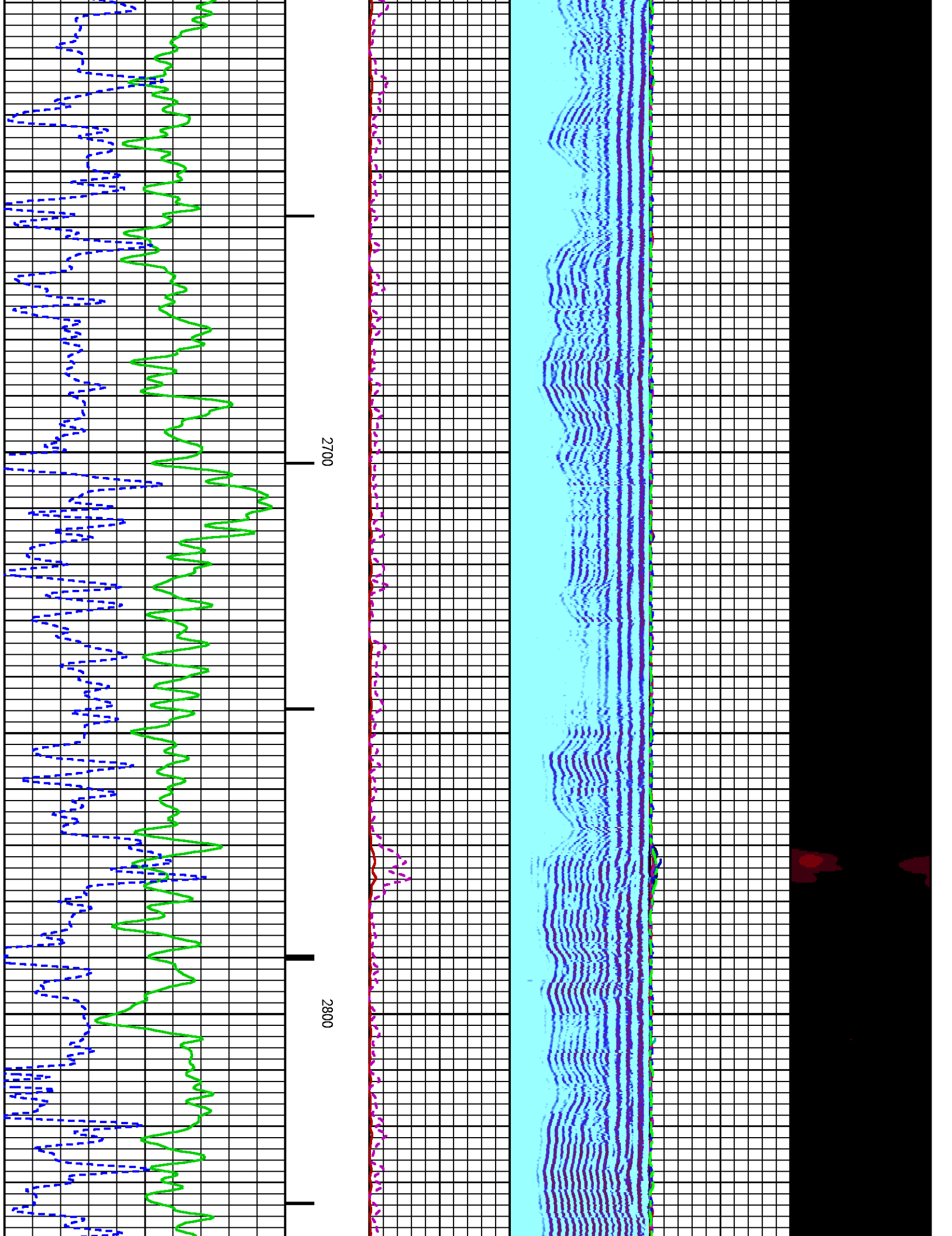


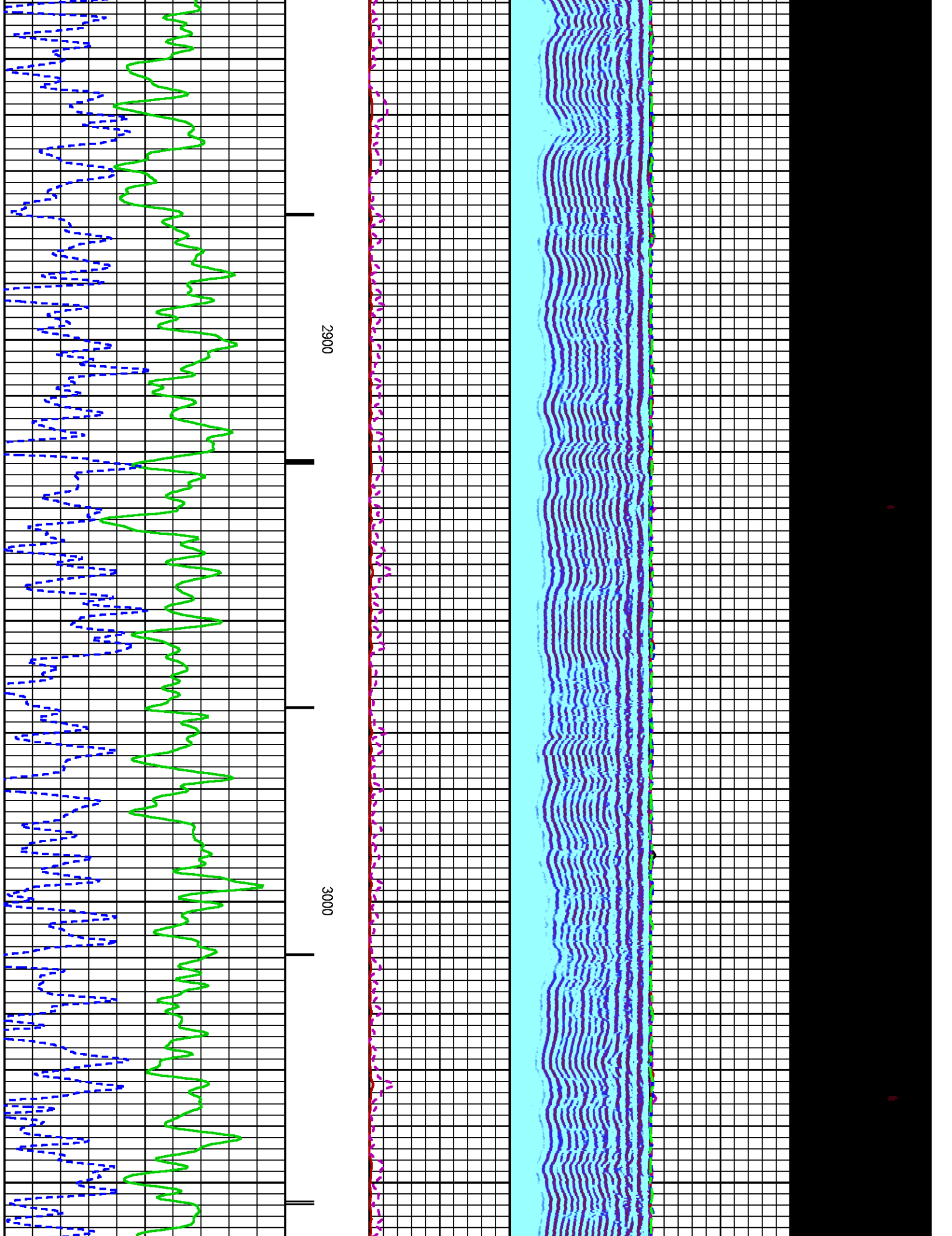


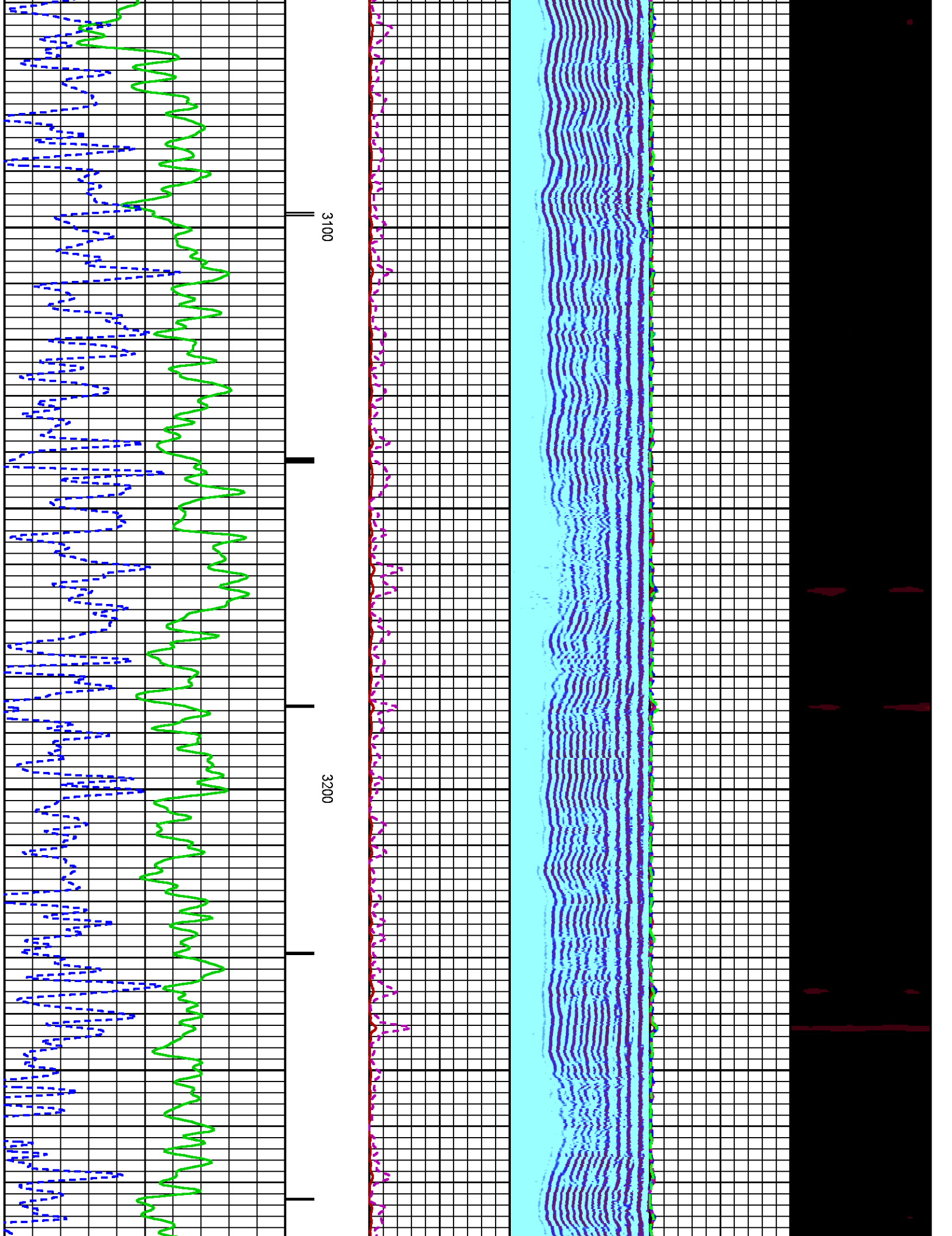


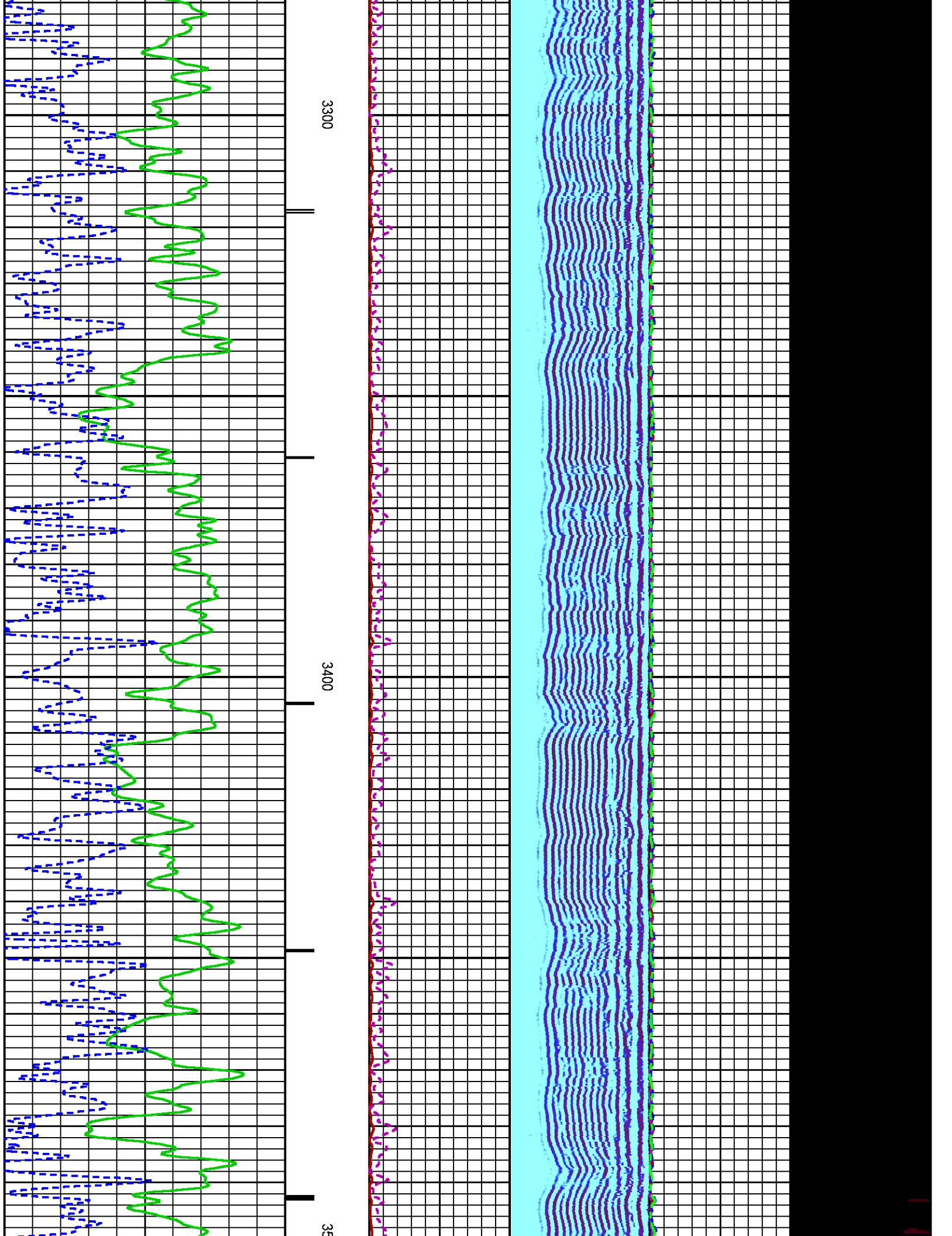


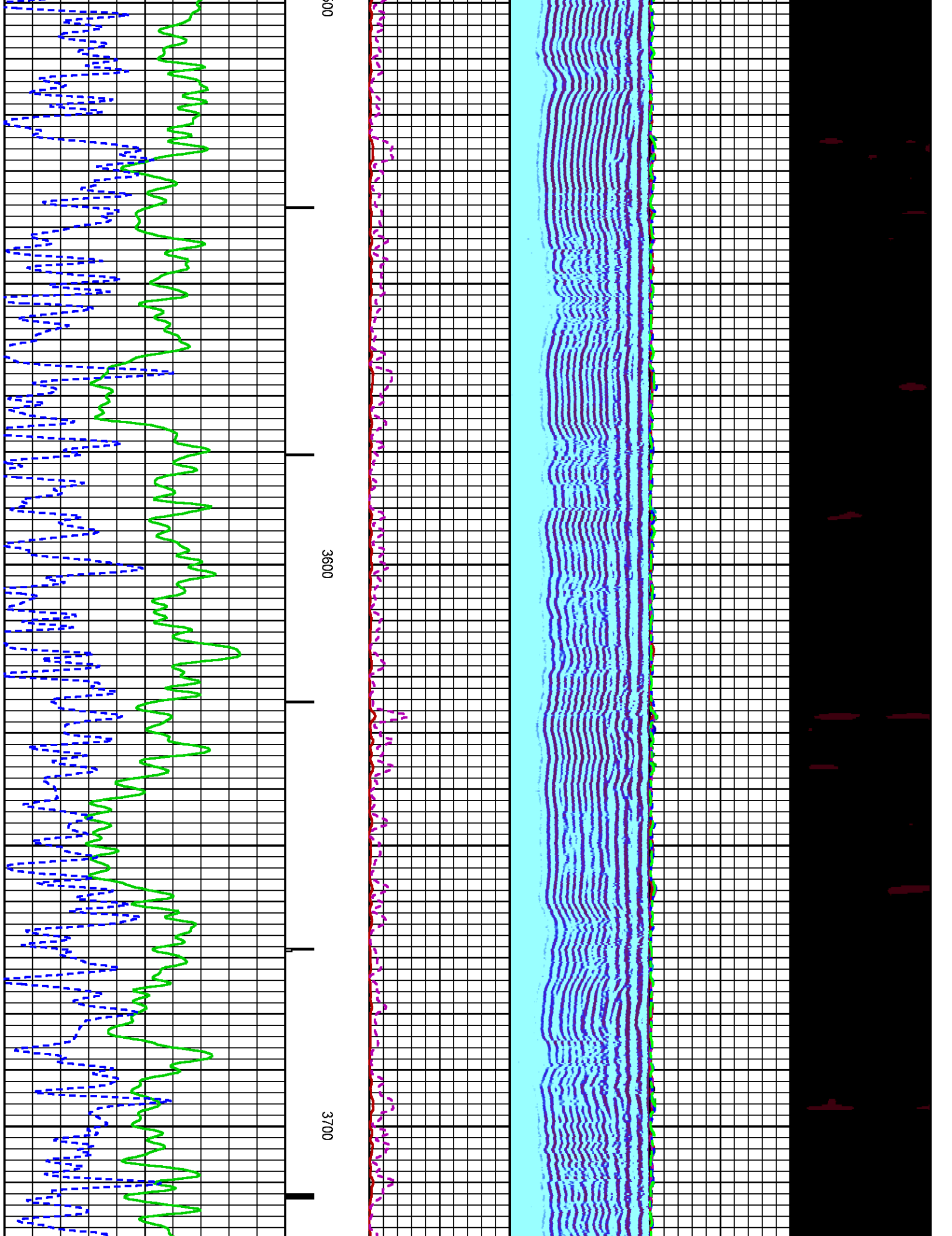


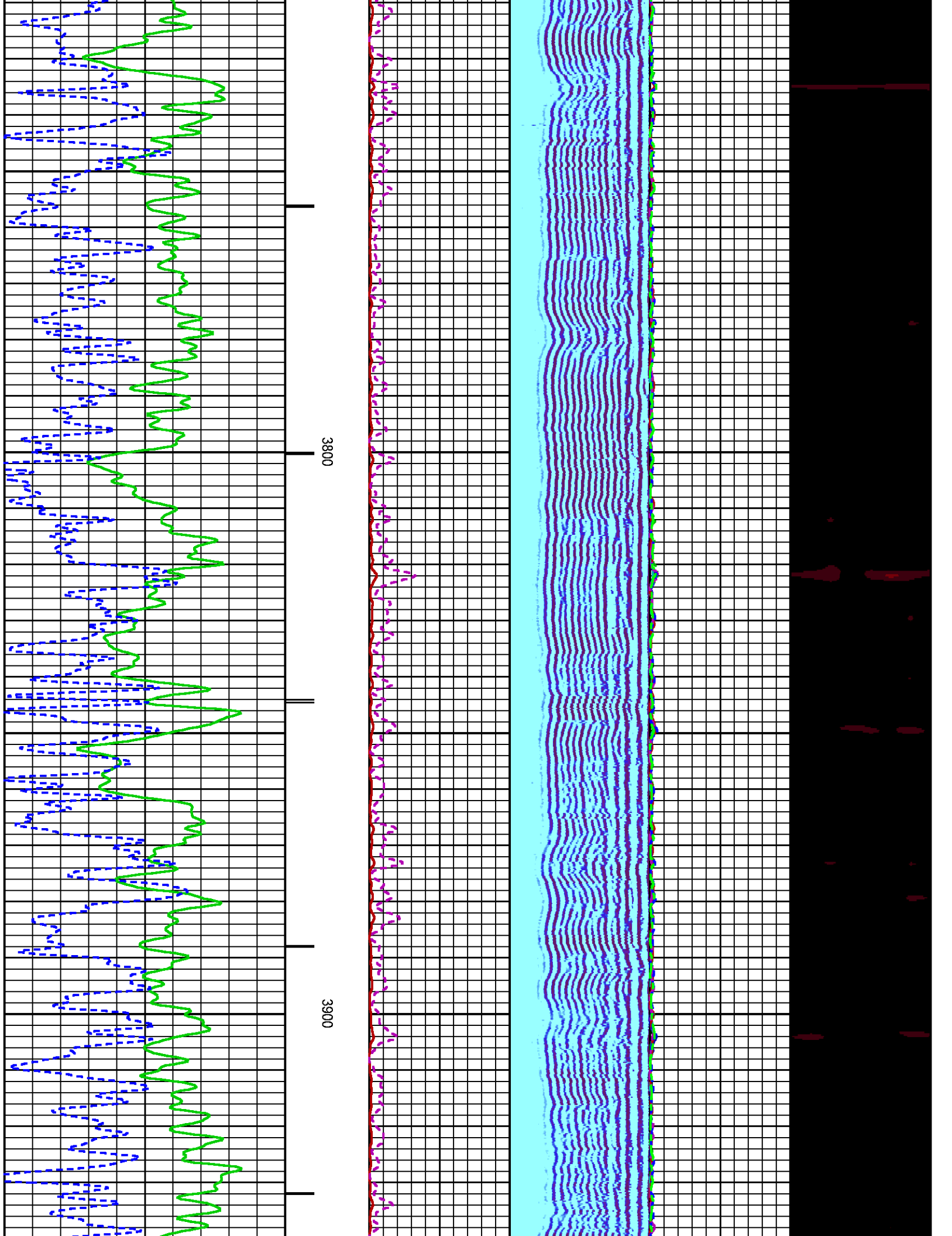


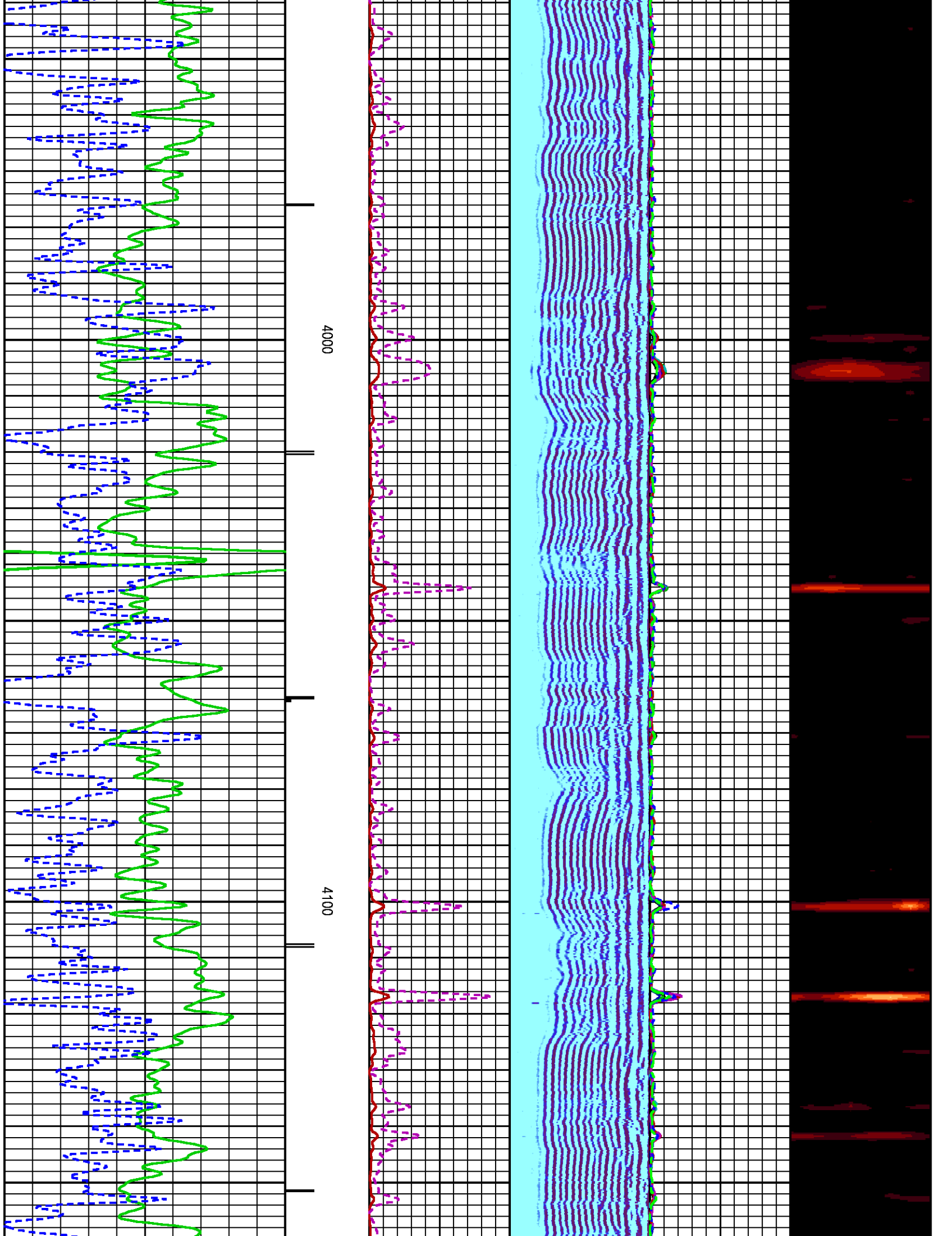


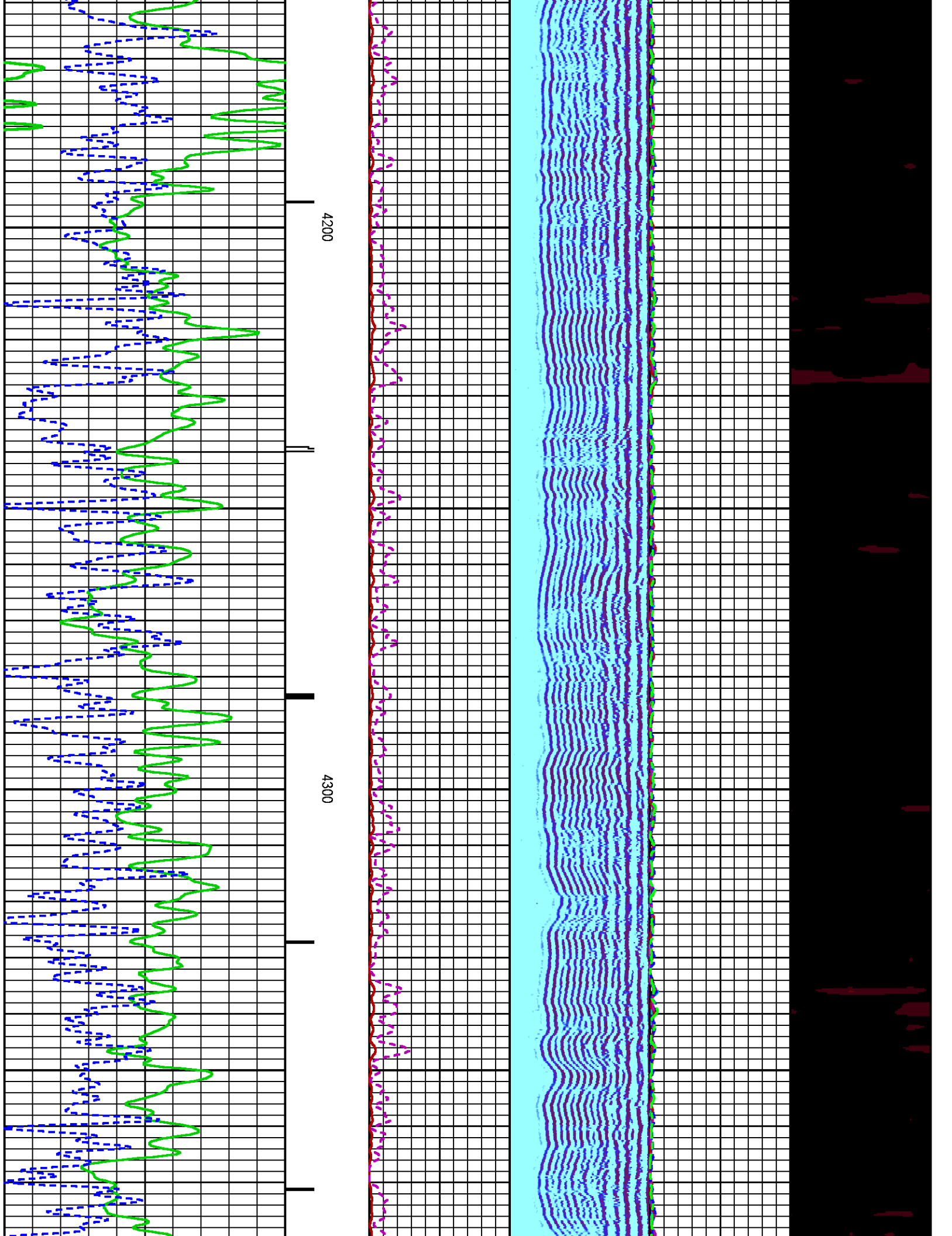


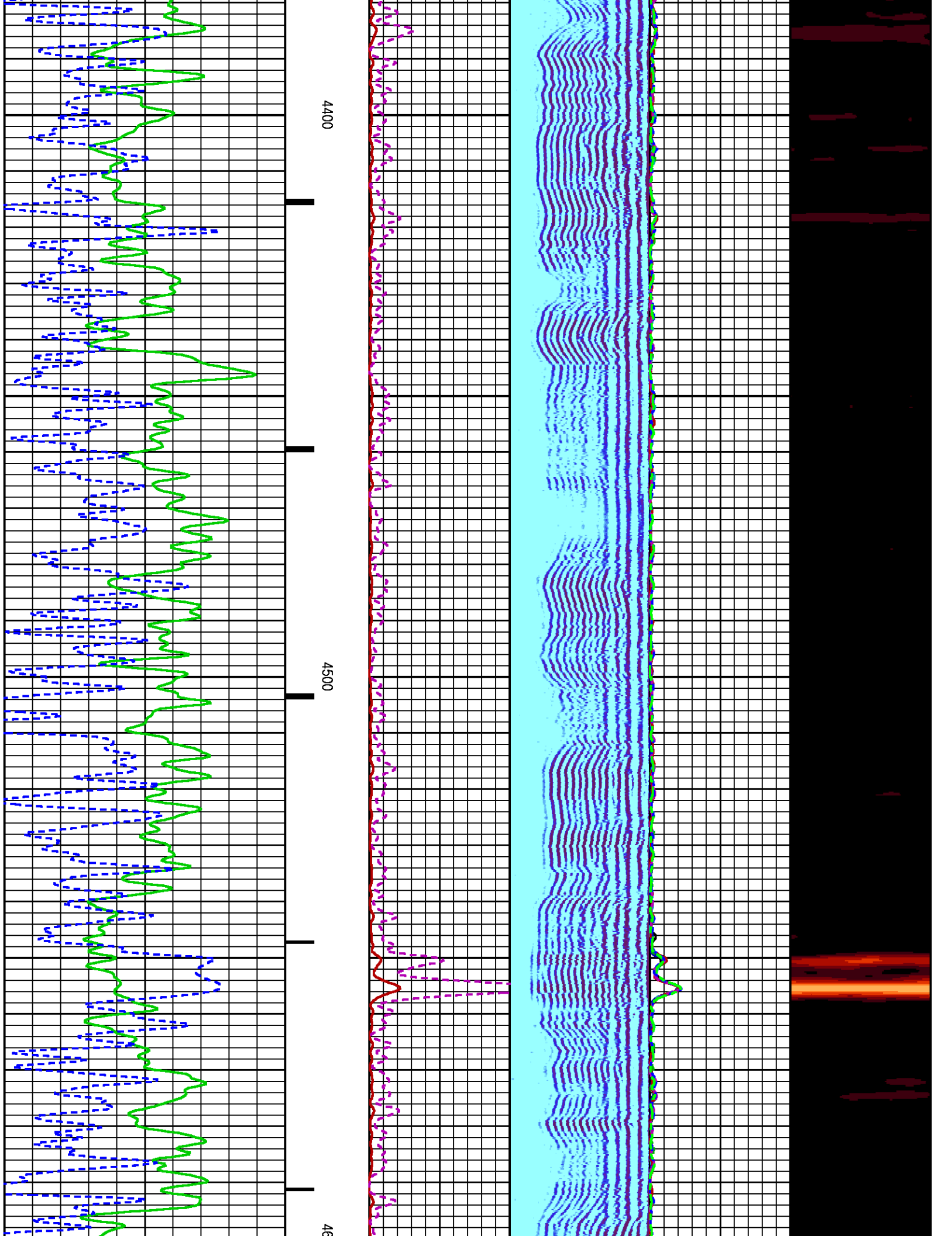


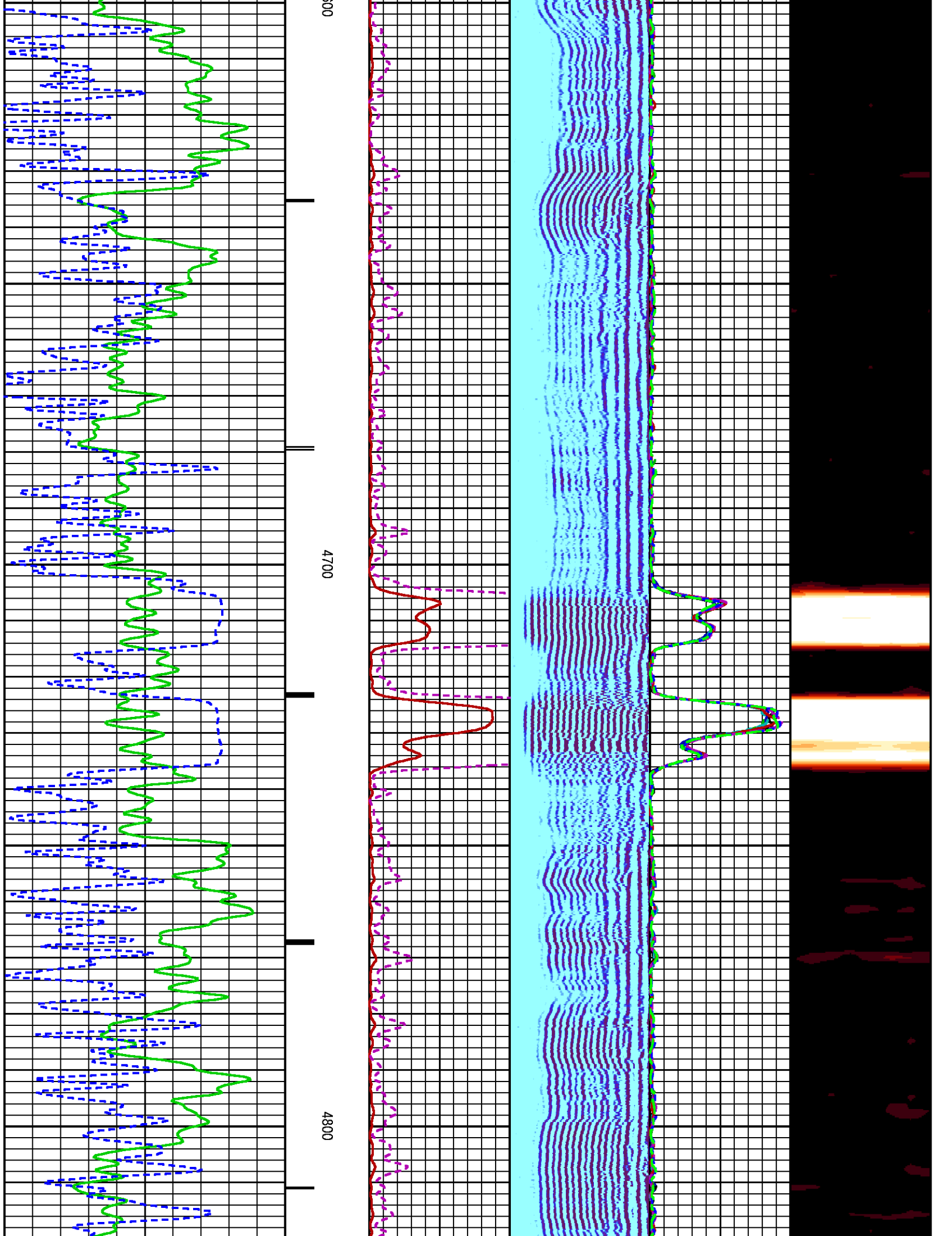


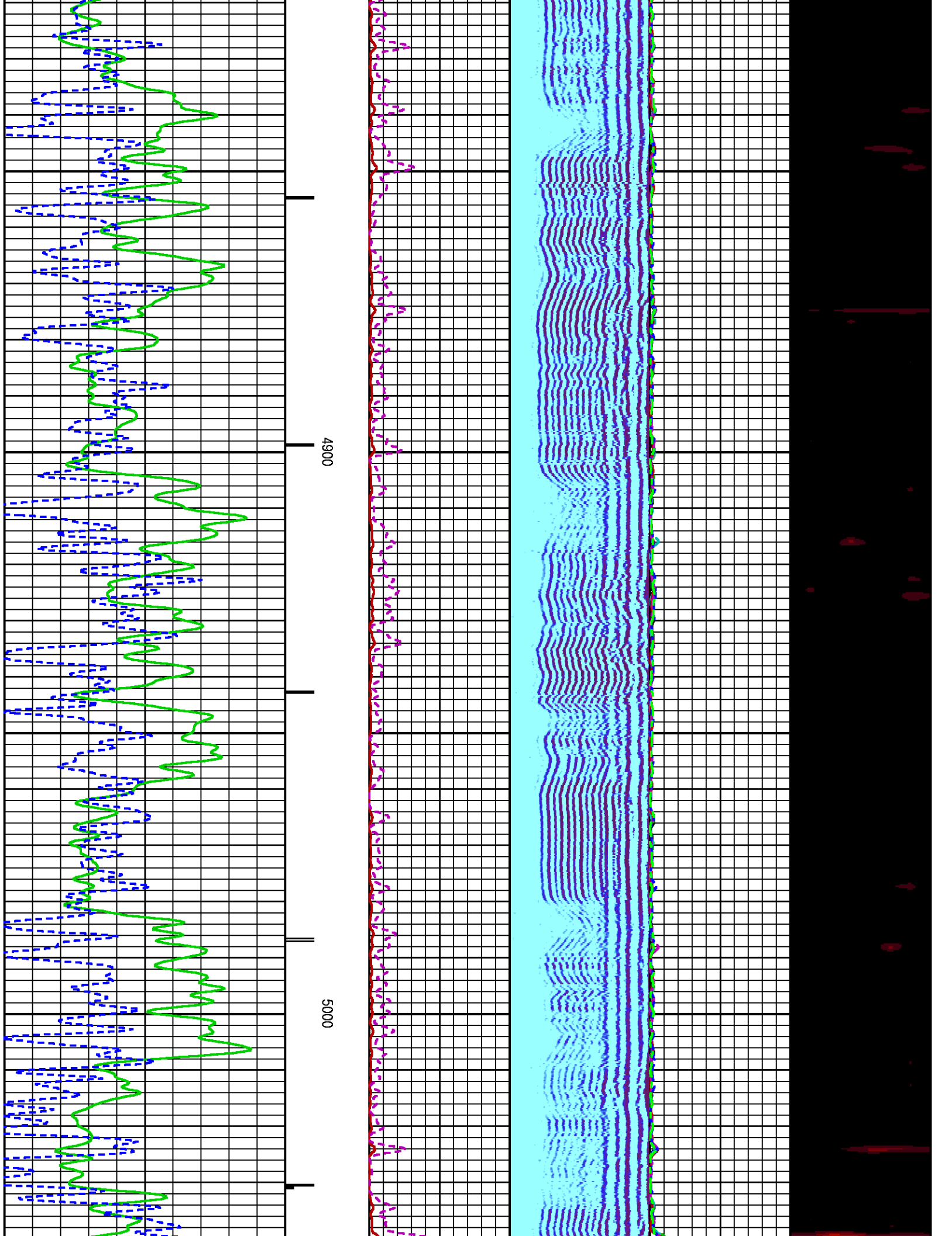


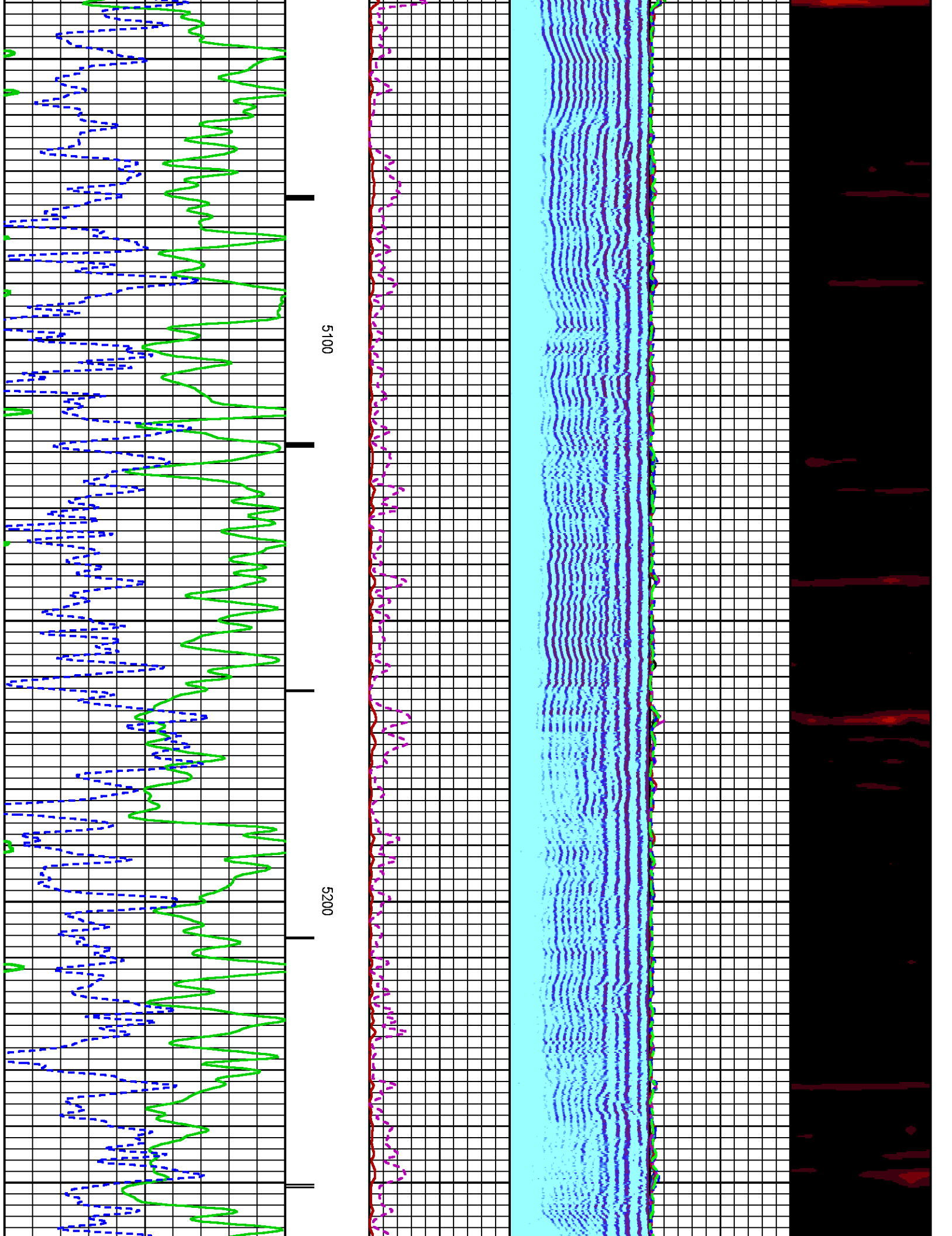


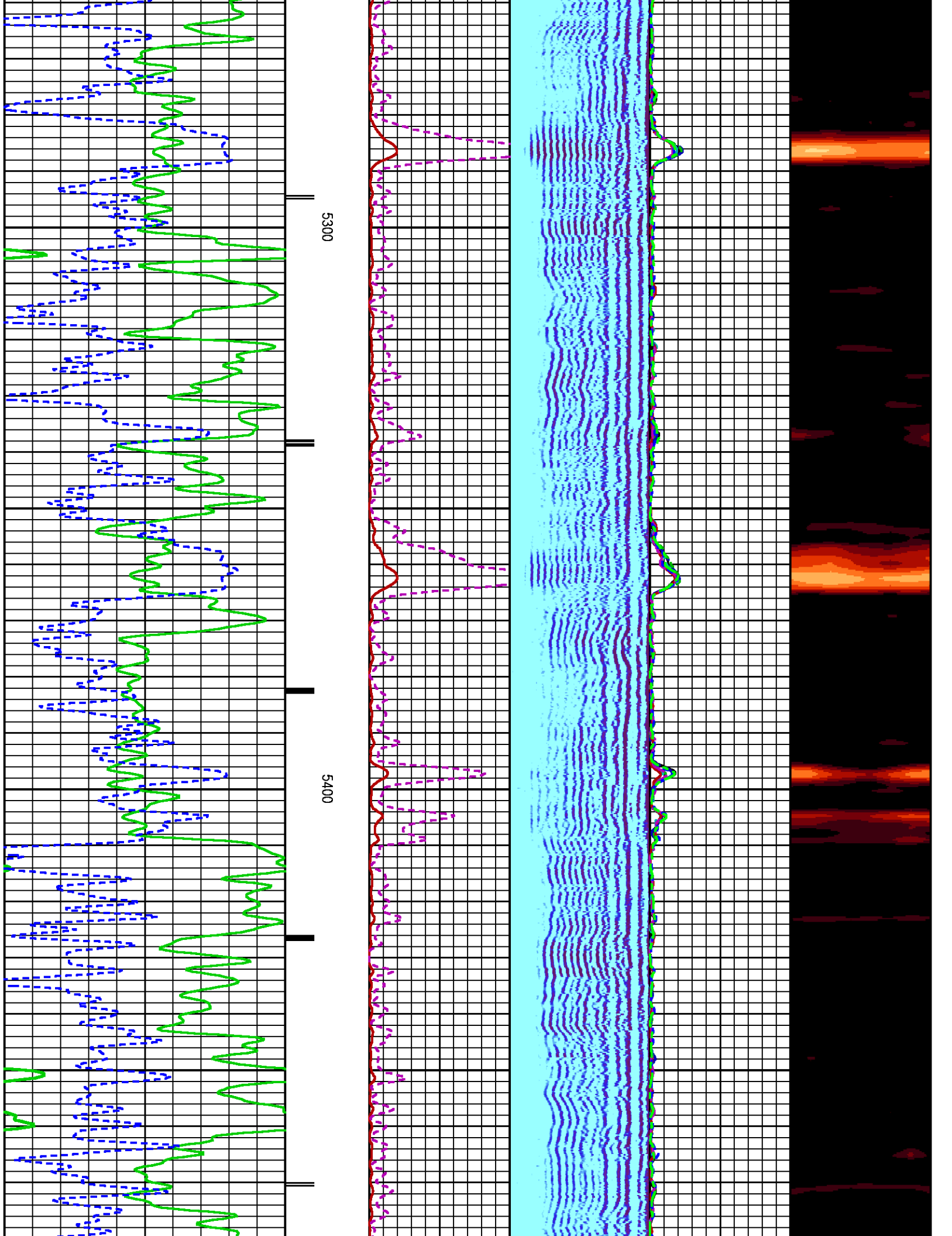


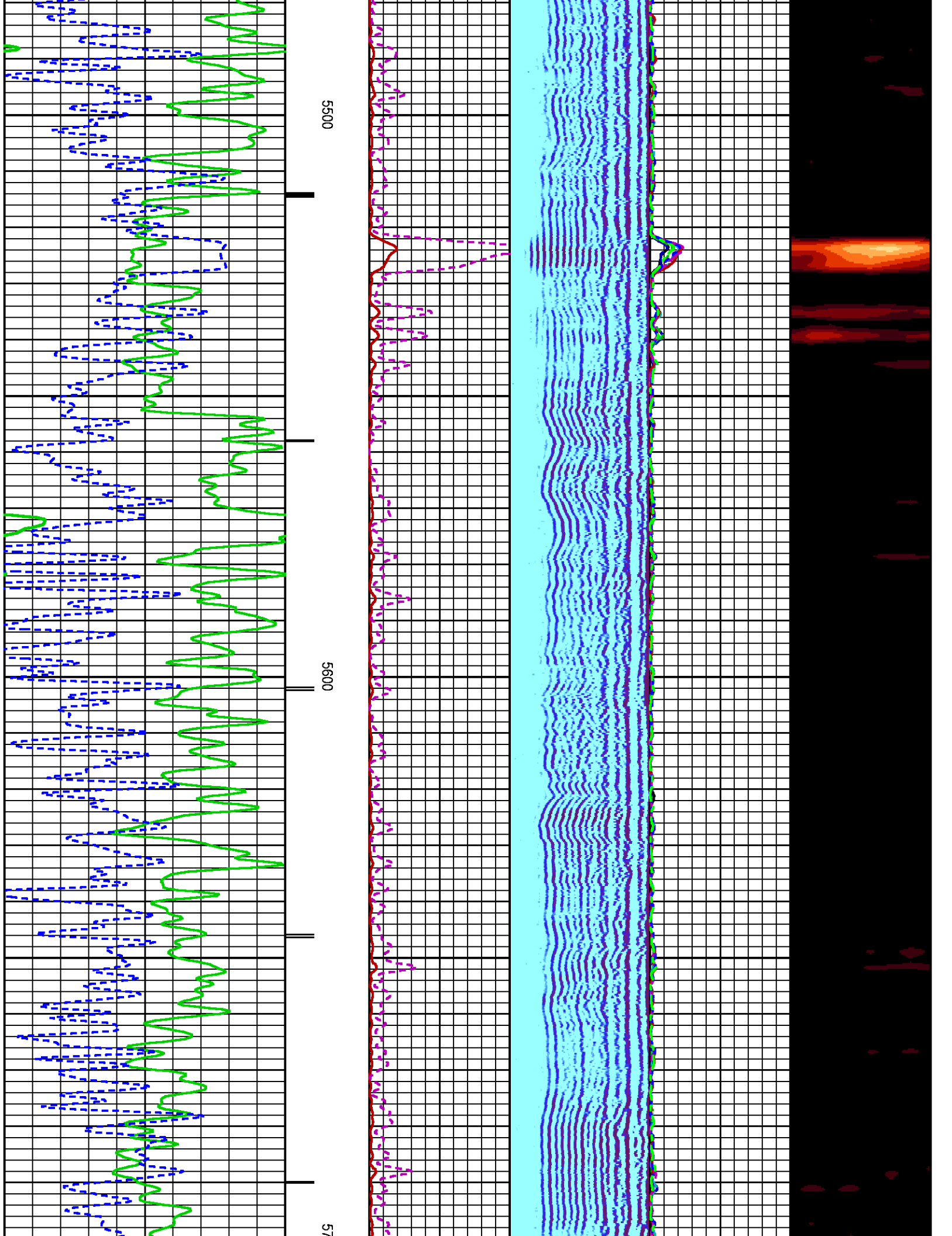


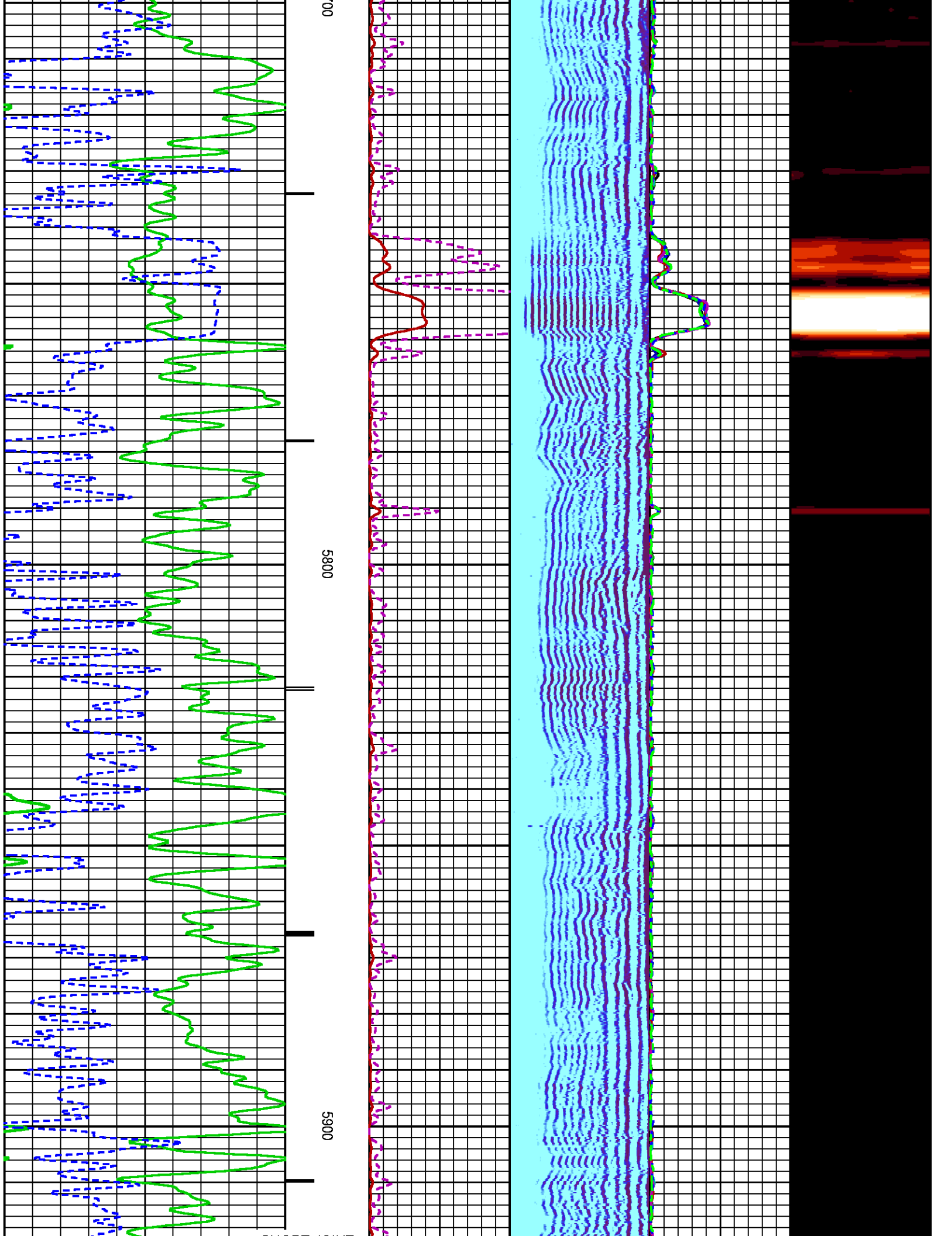


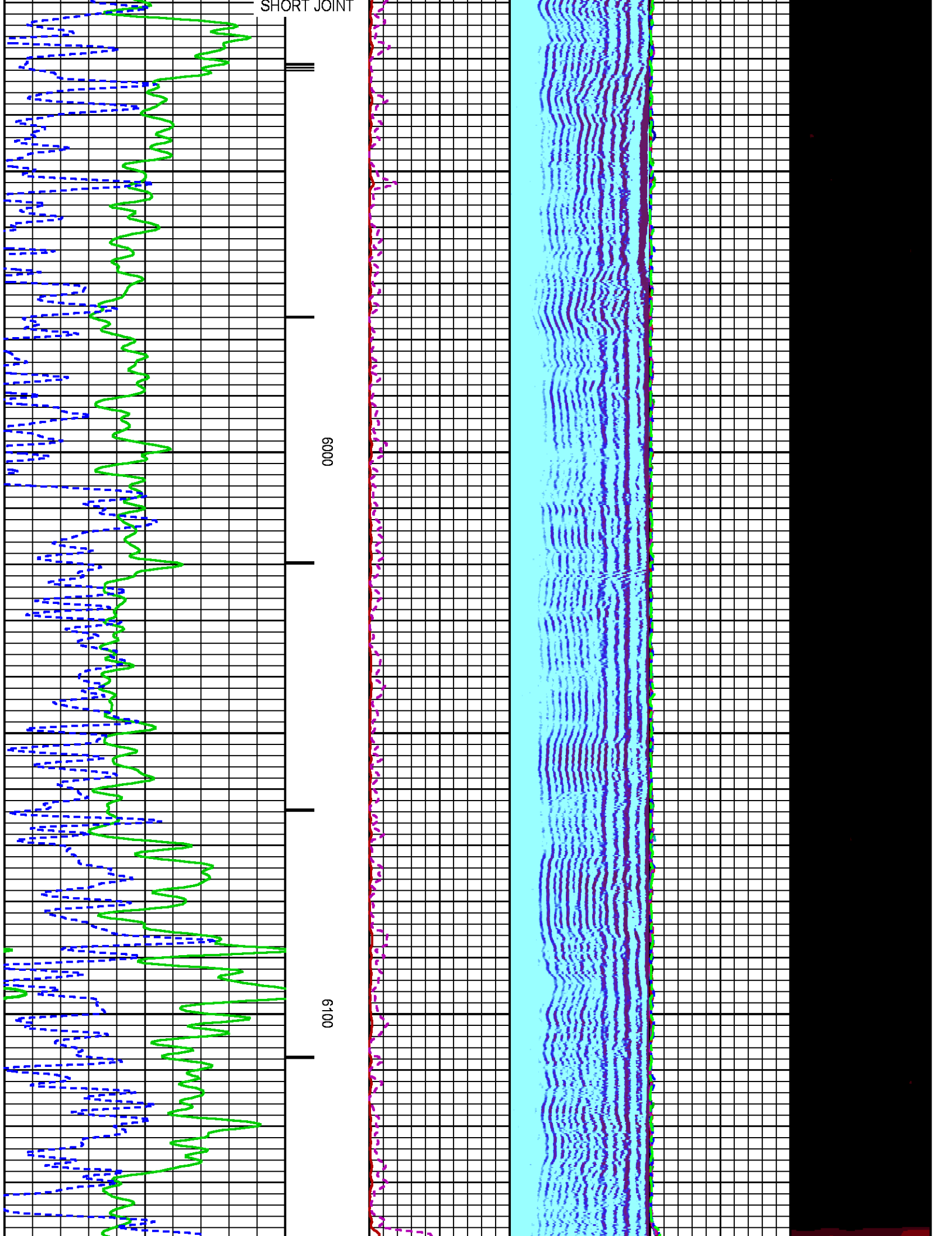


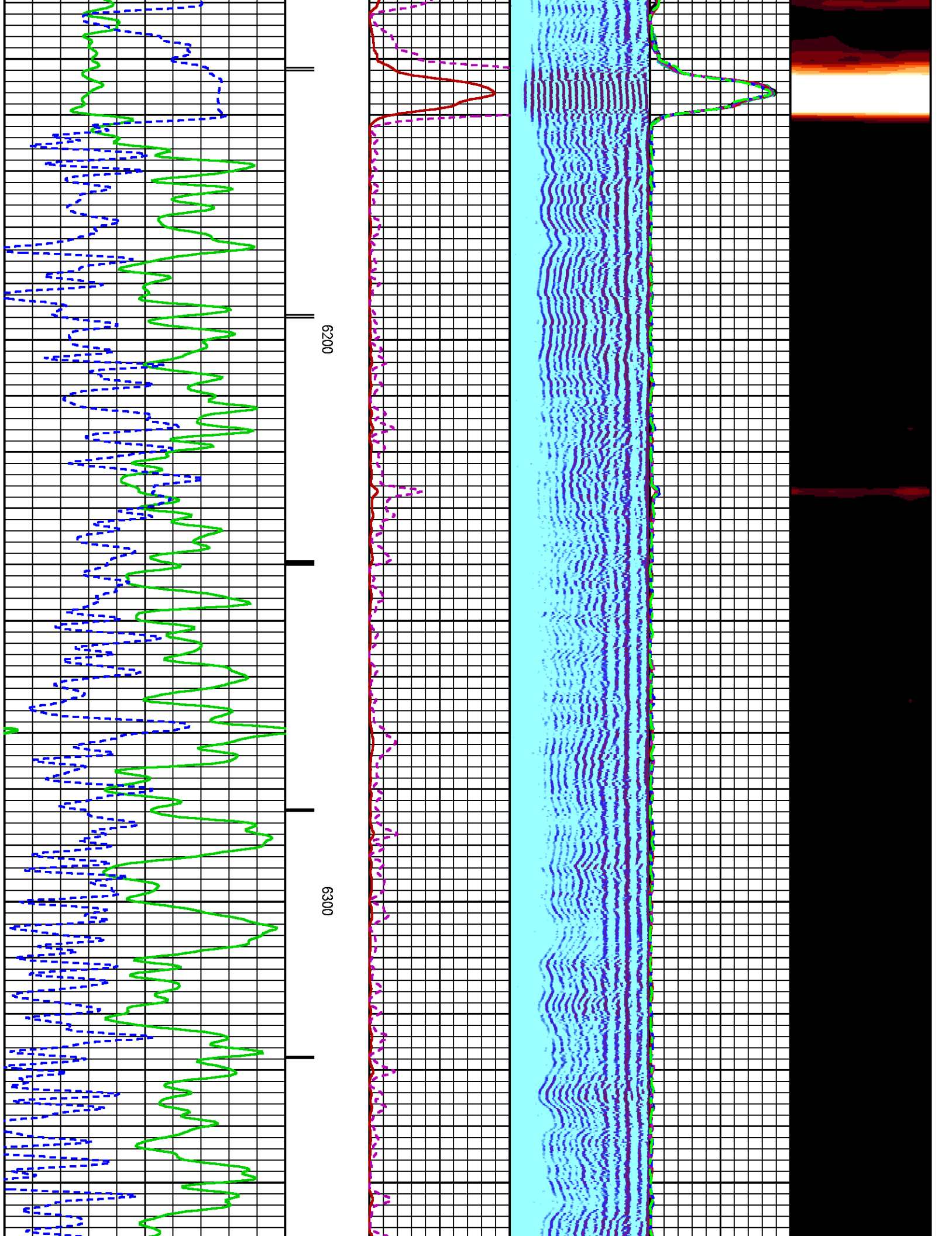


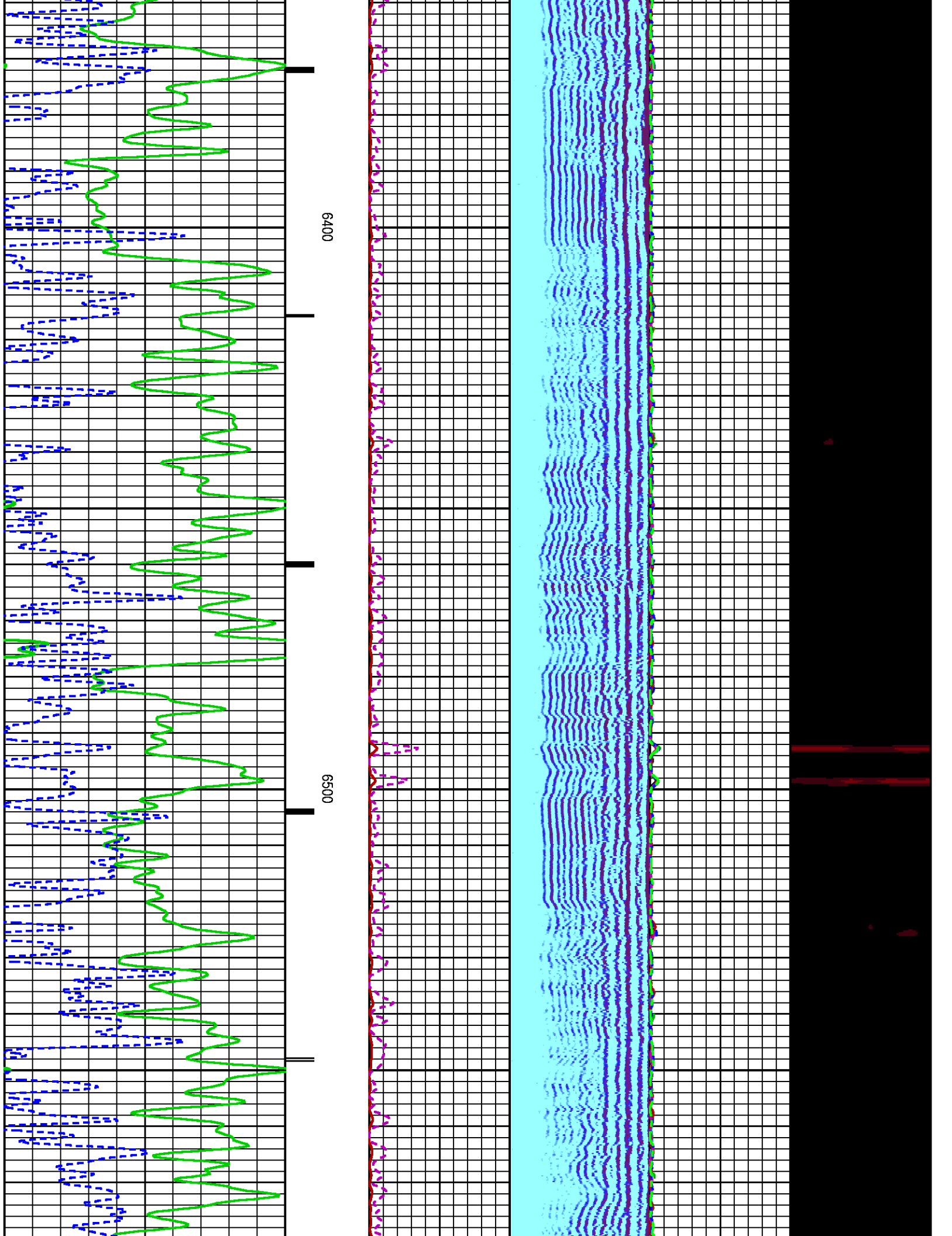


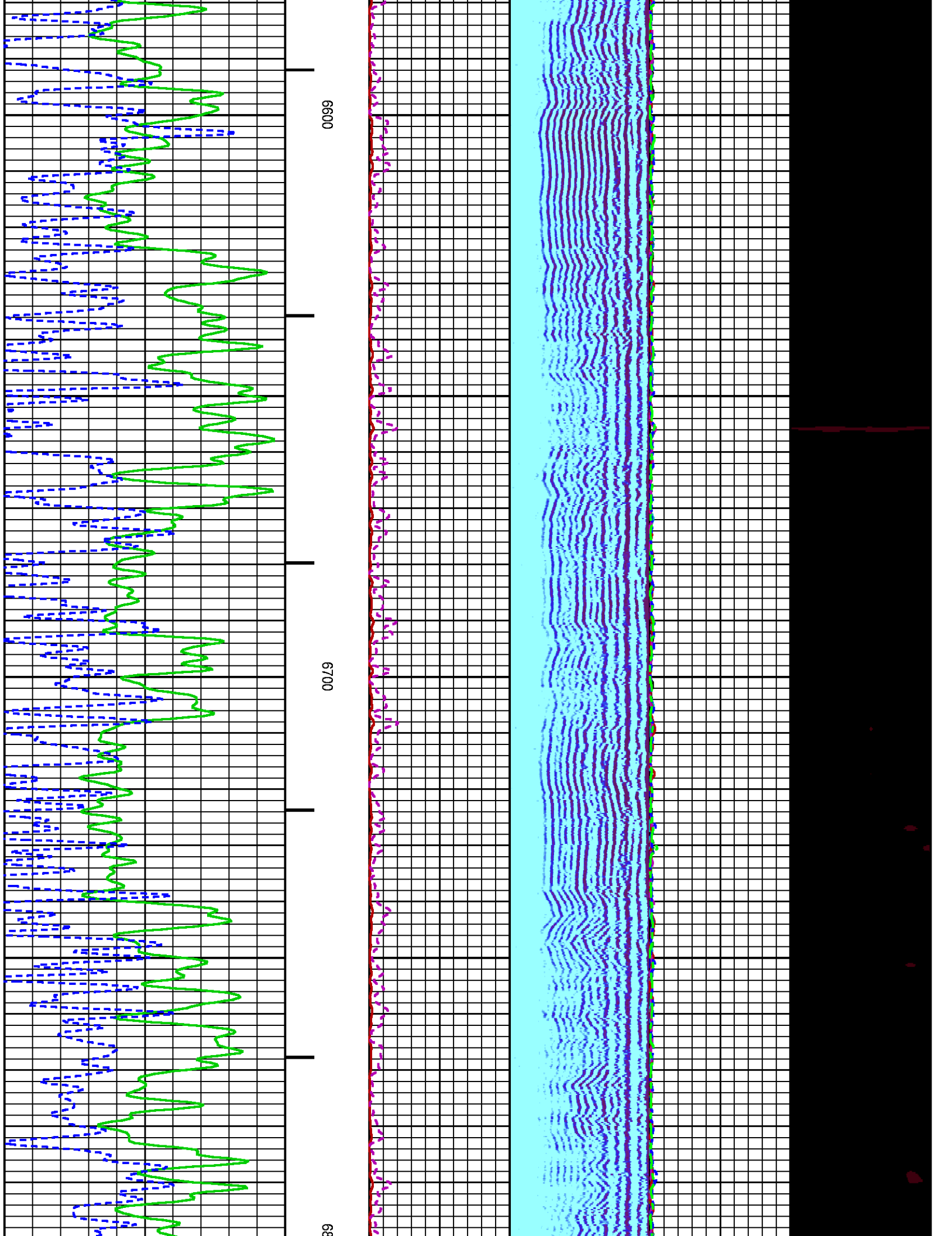


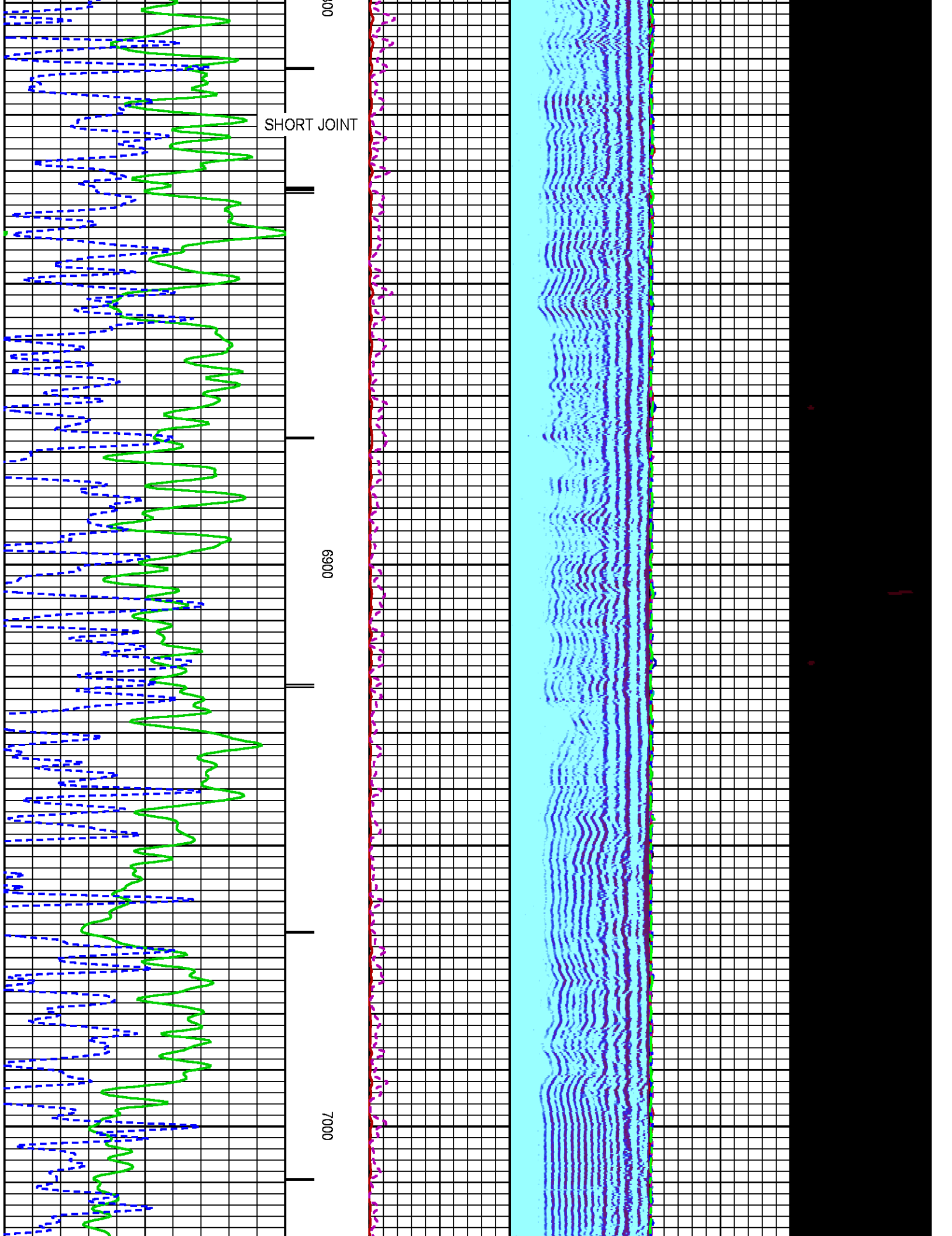


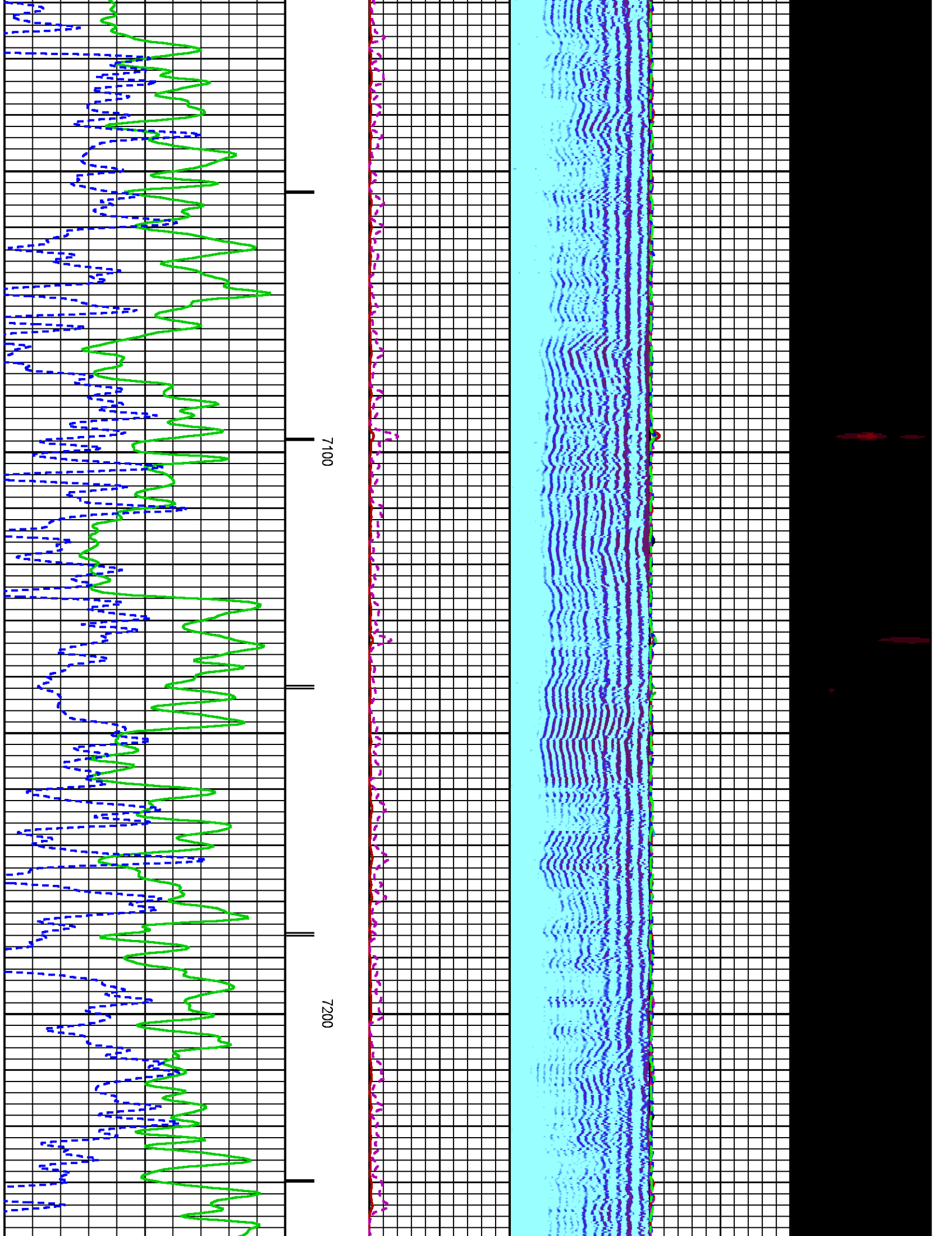


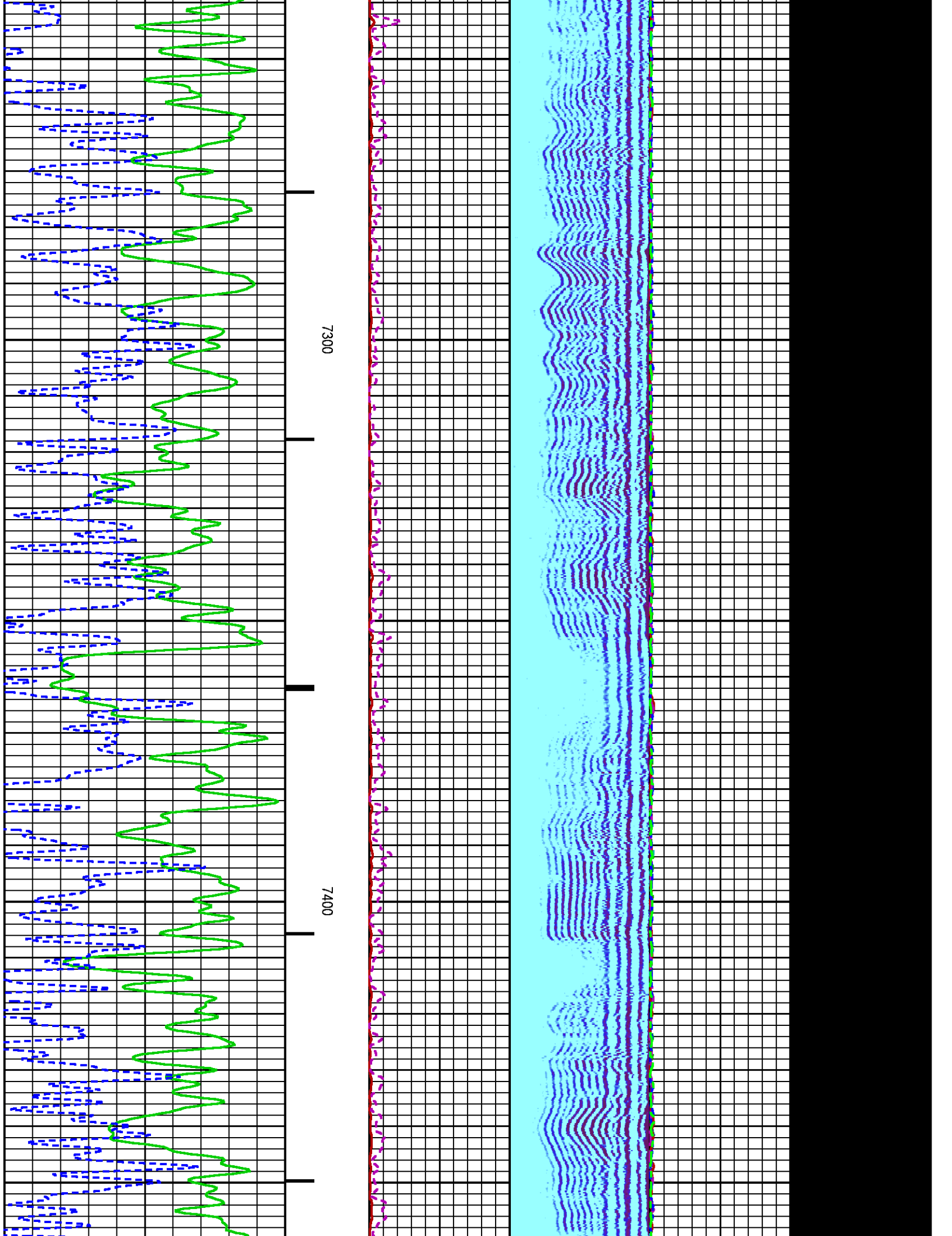


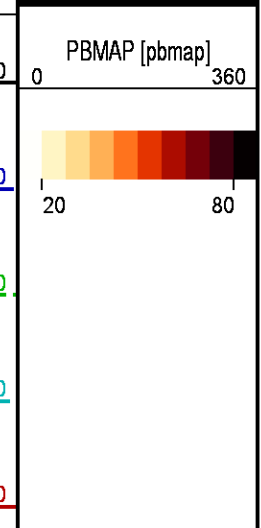
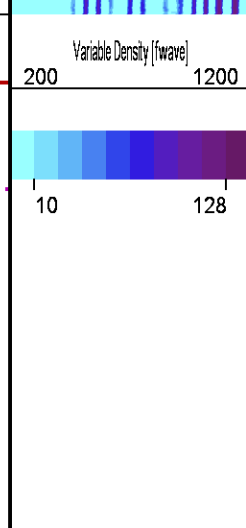
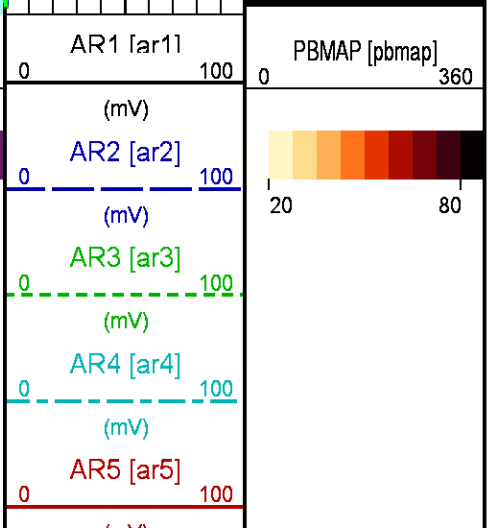
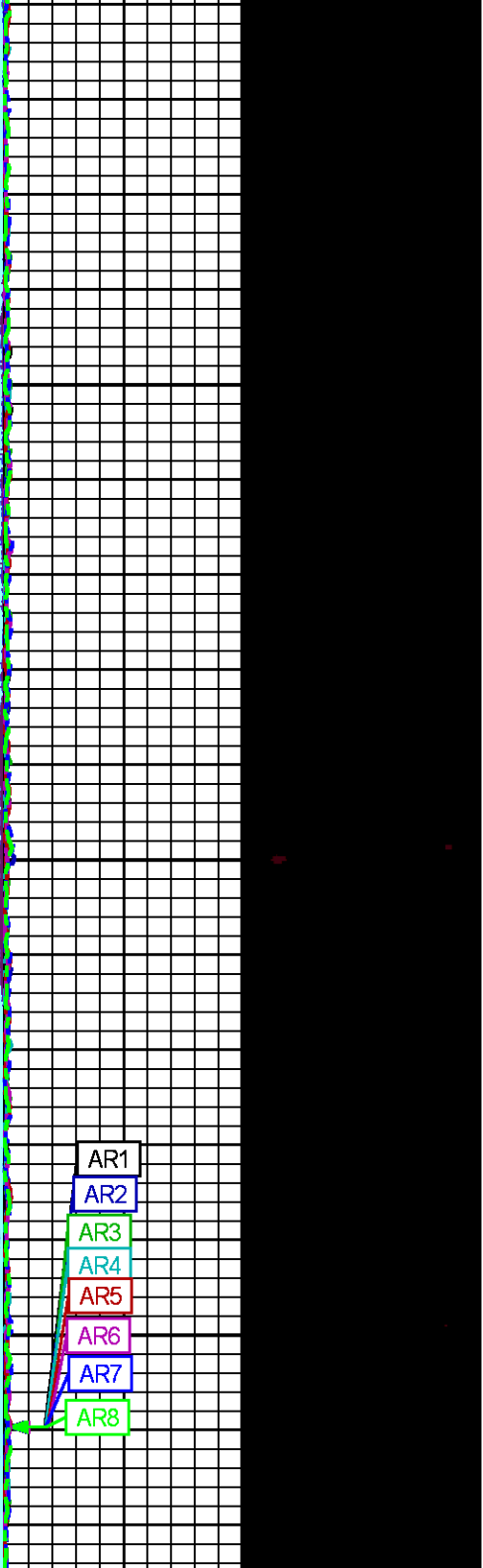
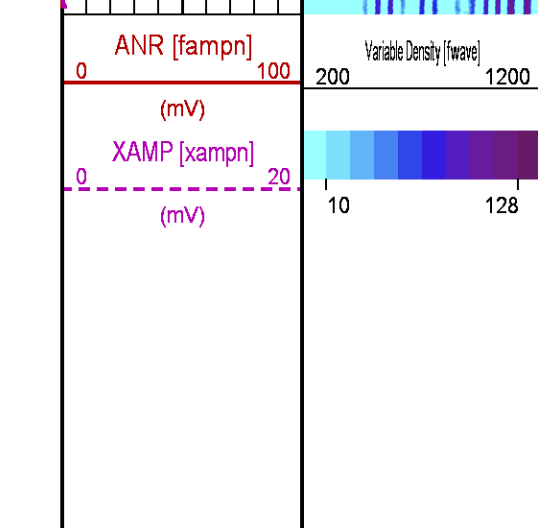
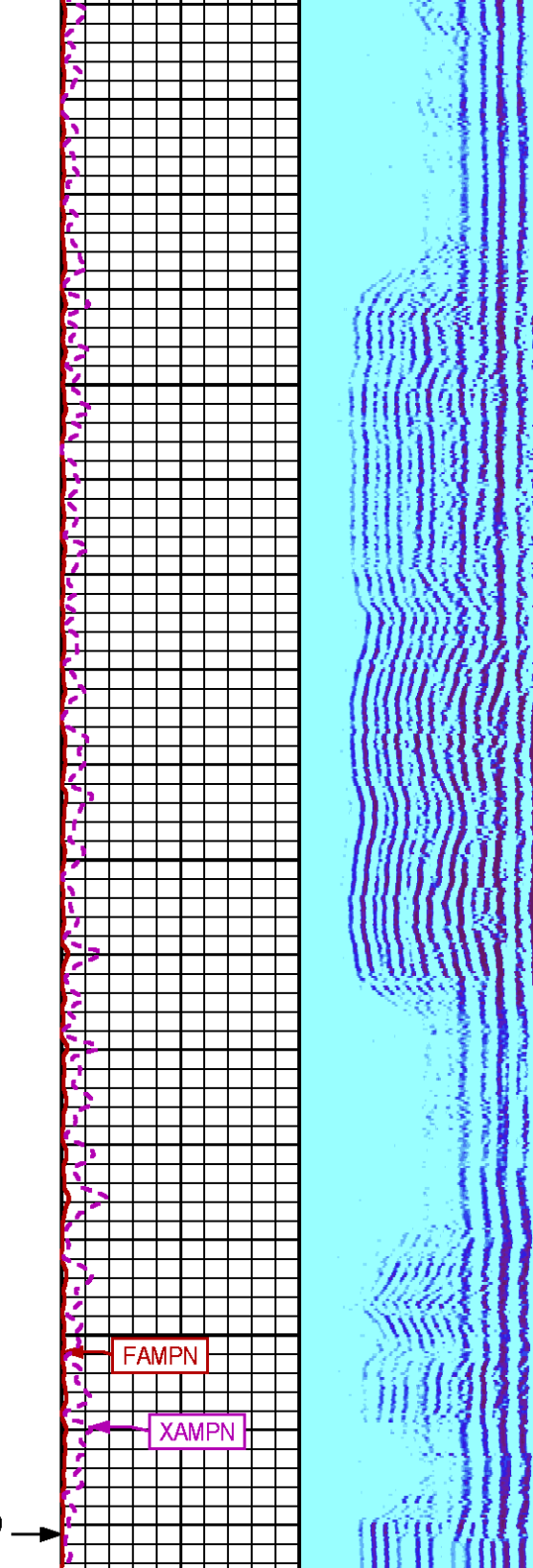
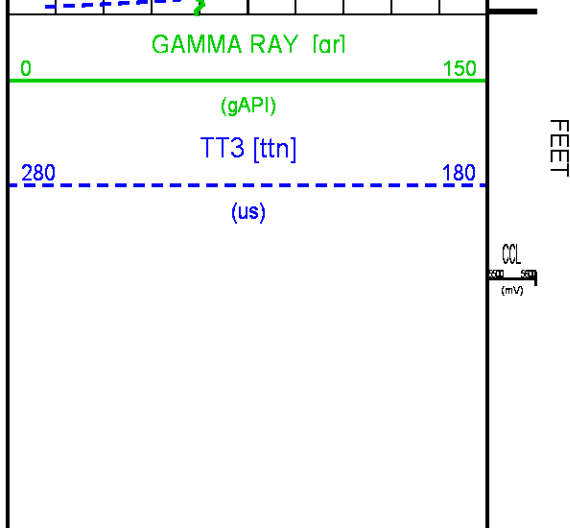
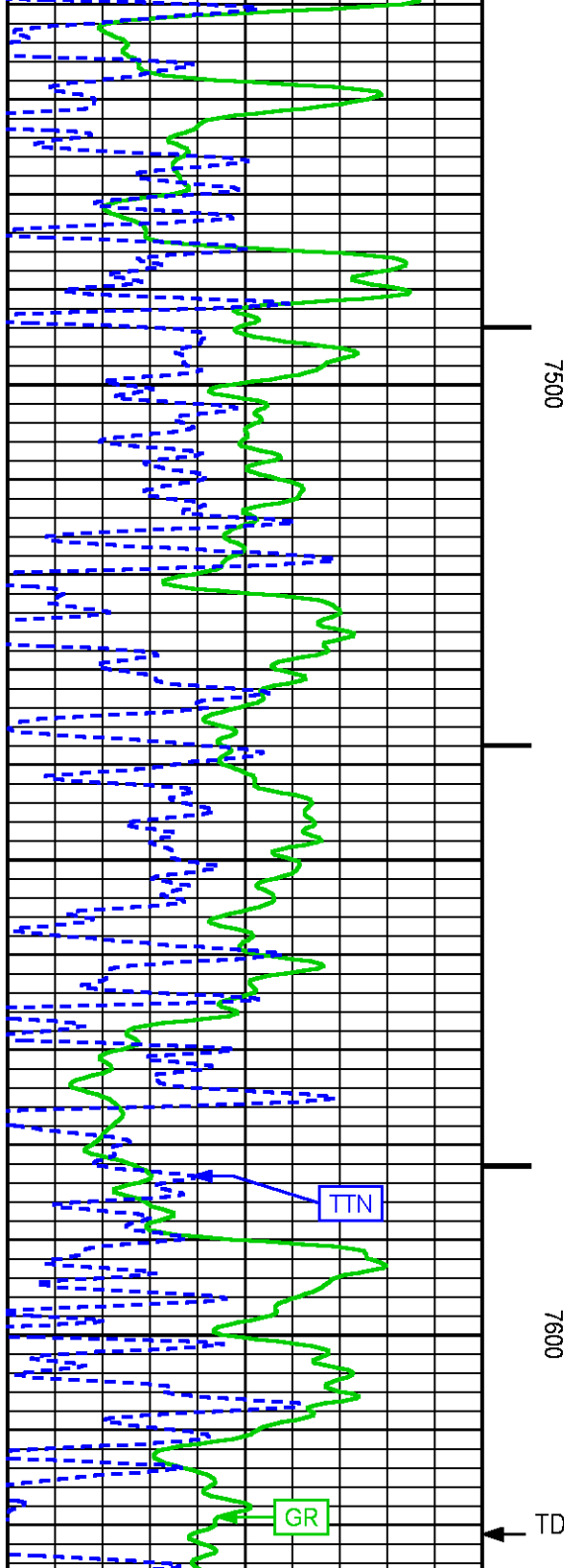


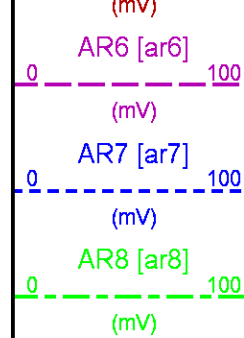












REPEAT PRESENTATION 0 PSI

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

Updates: 1 Patches: 6

Plotted: Thu Jul 23 09:56:38 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH097897/n012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7400.750 ft BOTTOM DEPTH: 7644.250 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

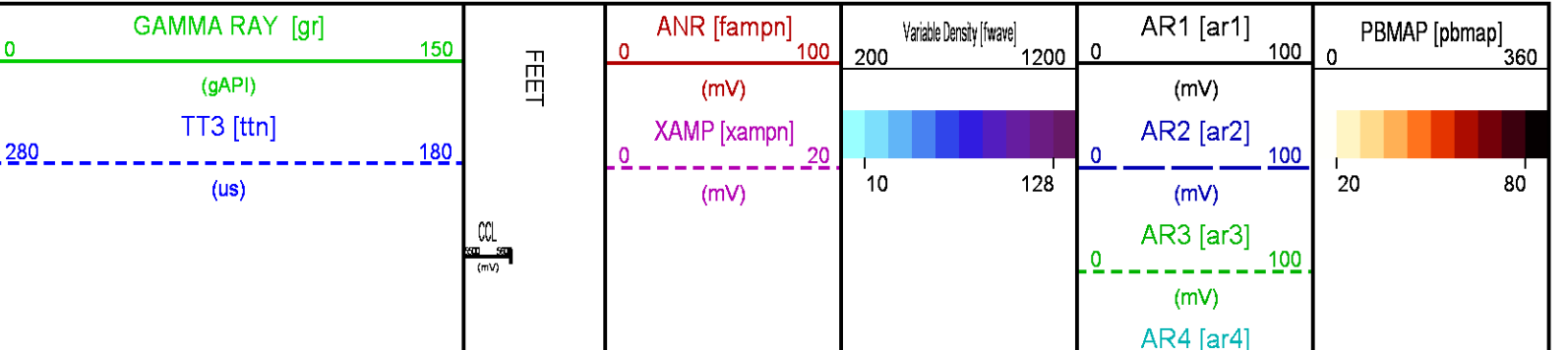
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
AMPLITUDE WINDOW (NEAR)	AMP WINDOW START (fgp1*)	185	us	TOP	BOTTOM
	AMP WINDOW START (fgp2*)	185	us	"	"
	AMP WINDOW START (fgp3*)	185	us	"	"
	AMP WINDOW START (fgp4*)	185	us	"	"
	AMP WINDOW START (fgp5*)	185	us	"	"
	AMP WINDOW START (fgp6*)	185	us	"	"
	AMP WINDOW START (fgp7*)	185	us	"	"
	AMP WINDOW START (fgp8*)	185	us	"	"
	AMP WINDOW START (fgpn*)	185	us	"	"
	AMP WINDOW LENGTH	30	us	"	"
TRAVEL TIME WINDOW (NEAR)	TT WINDOW START (ttn*)	171	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	"	"

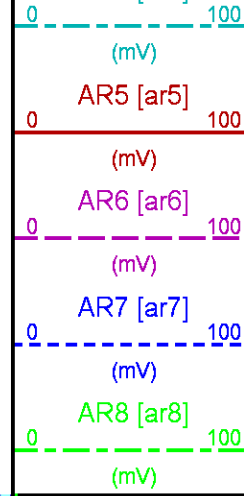
BASELINE NOISE (NEAR)	NOISE WINDOW START	133	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	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	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 23 08:27:02 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jul 23 08:27:02 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 23 08:27:02 2015	FAR WAVE FORM
F1:GR	Jul 23 08:27:02 2015	GAMMA RAY
F1:PBMAP	Jul 23 08:27:02 2015	PERCENT BOND CEMENT MAP
F1:TTN	Jul 23 08:27:02 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 23 08:27:02 2015	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		

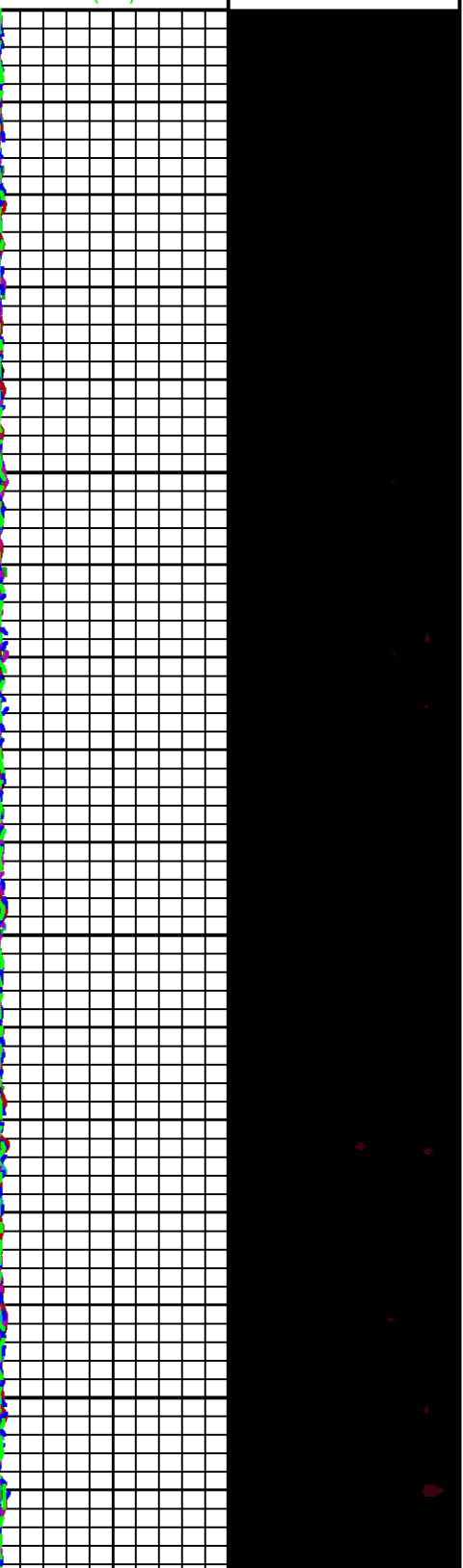
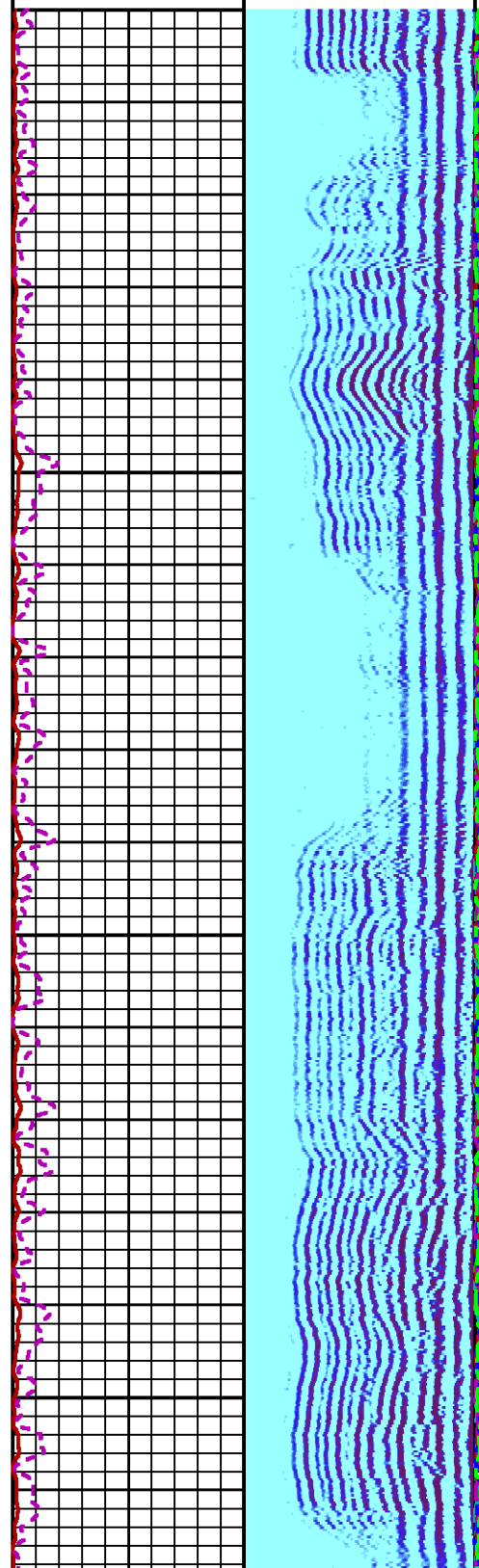
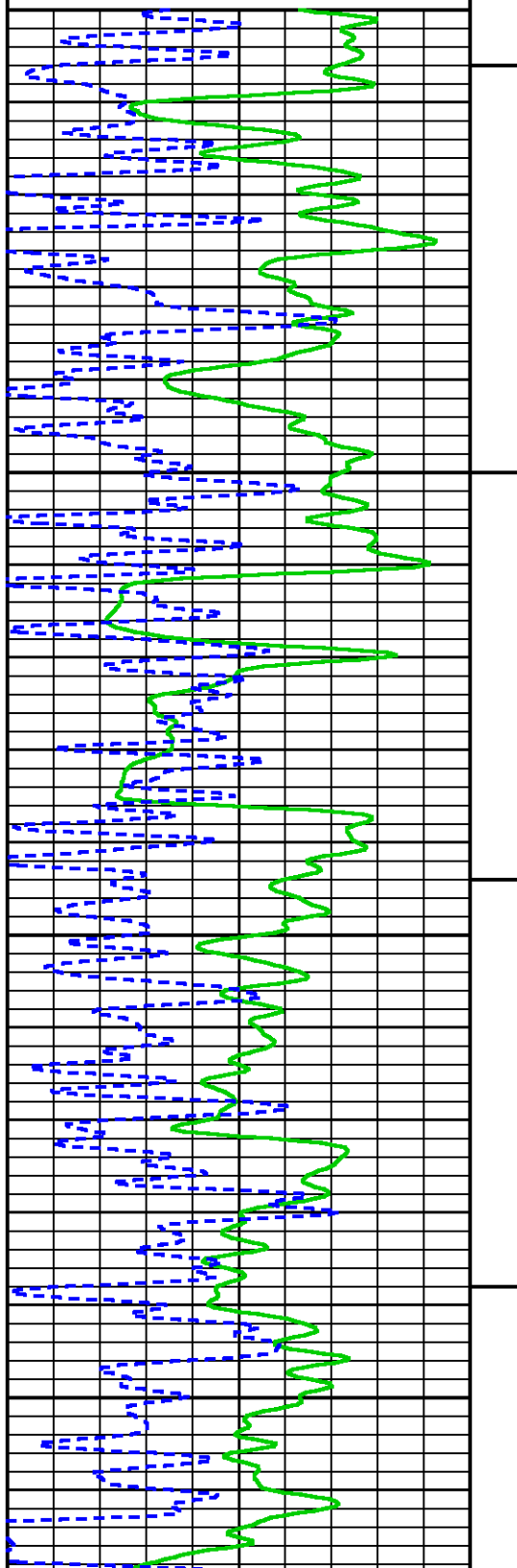
Presentation	: HL6670:/dat1a/CH097897/07E_CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 7400 - 7626 Feet
Data File 1	: F1 : HL6670:/dat1a/CH097897/n012g01REPEAT7E.xtf
Created On	: Jul 23 08:27:02 2015
Company	: LARAMIE ENERGY
Well	: GUNDERSON 29-07E
Field	: VEGA
File Interval	: 7389.25 - 7644.25 Feet
OCT	: n012g

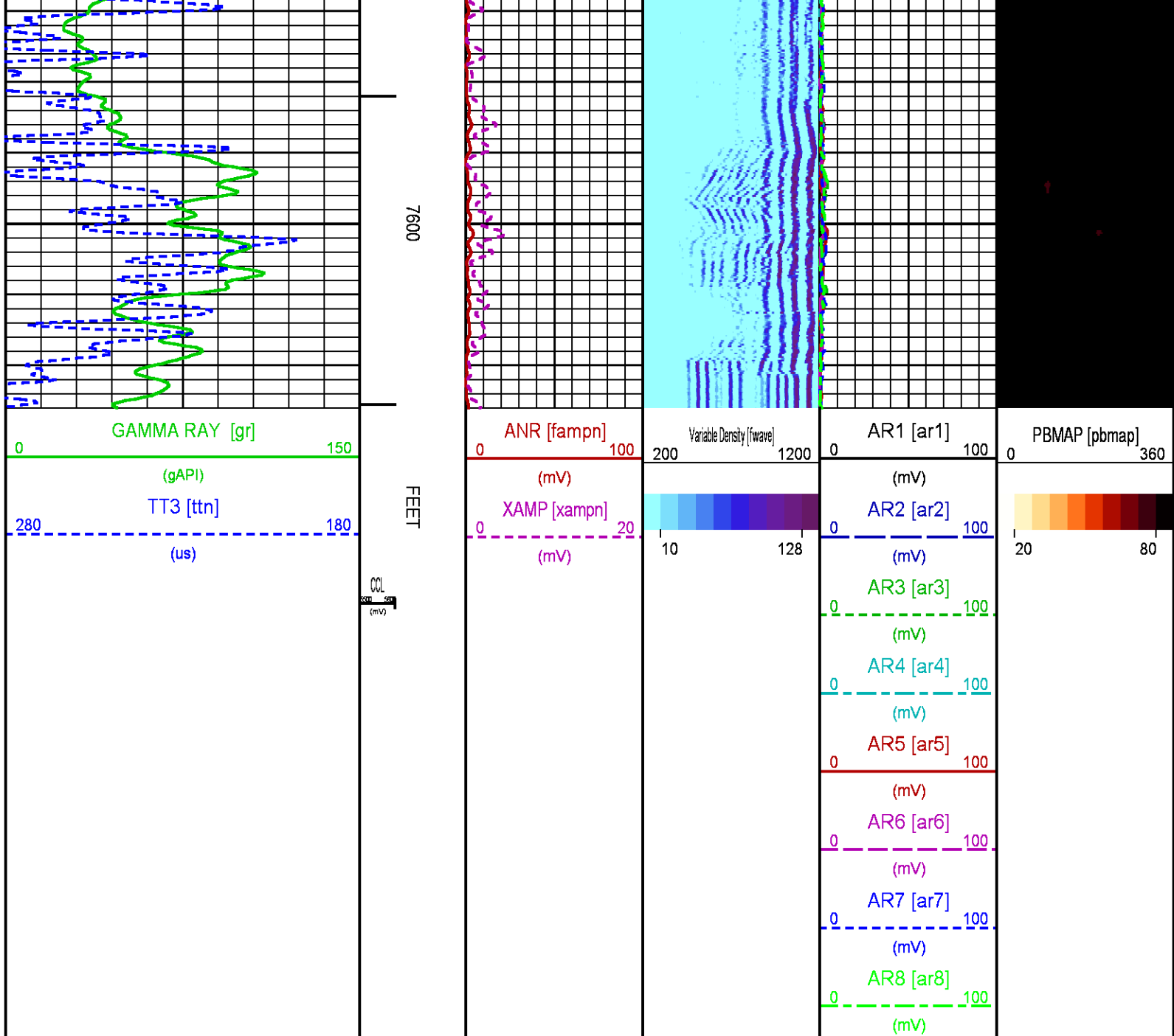




7400

7500





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH097897/n012g.tp1

RAL PRIMARY CALIBRATION SUMMARY

TOOL #: 1426XA 10124106

DATE/TIME PERFORMED: Thu Jul 23 08:00:05 2015

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	-0.04	-0.19	-0.10	0.04	0.10	0.13	-0.00	-0.10	-0.02	0.10
AMP FLUID (mV)	31	30	31	31	31	30	30	31	31	42	30
TT (us)	217	217	217	217	217	217	217	217	218	325	218
M FACTOR	3.25	3.28	3.23	3.23	3.26	3.29	3.32	3.25	3.22	3.54	3.34

RAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 1426XA 10124106 DATE/TIME PERFORMED: Thu Jul 23 08:02:42 2015 DAYS SINCE CAL: 0

UNIT #: 3880TA HL6670 CABLE #: 6670SM SMALL1

	NEAR (mV)	R1 (mV)	R2 (mV)	R3 (mV)	R4 (mV)	R5 (mV)	R6 (mV)	R7 (mV)	R8 (mV)	FAR (mV)	CAL (mV)
ZERO	0.43	0.33	-0.14	-0.02	-0.05	-0.16	-0.13	0.00	0.21	0.52	0.62
AMP AIR	-1.29	-2.16	-1.68	-1.10	-1.98	-0.60	-1.56	-0.33	-1.31	-1.56	102.59

SHOP M FACTOR	SHOP A FACTOR	WIRELINE FACTOR
3.34	0.00	0.98

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 10580209 DATE/TIME PERFORMED: Mon Jul 20 08:04:43 2015

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	191.51	737.11	545.6	0.339	64.94	249.94	185

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1355XA 10580209 DATE/TIME PERFORMED: Mon Jul 20 08:07:37 2015

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

	BACKGROUND (cts)	CALBRTR ON (cts)	MULT	BACKGROUND (gAPI)	CALBRTR ON (gAPI)	DIFF. (gAPI)
GR	176.44	735.91	0.339	59.83	249.53	189.70
						175.00 195.00

TEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 1355XA 10580209 DATE/TIME PERFORMED: Wed Jul 1 11:30:53 2015

UNIT #: 3880TA HL6670

	T(0)	T(1)	T(2)	T(3)
Corr Coeff for Temp	0.000000E+00	7.000000E-01	0.000000E+00	0.000000E+00

INSTRUMENT CONFIGURATION

CABLEHEAD

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

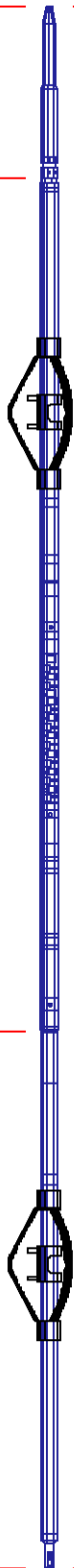
RADIAL BOND TOOL

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

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



20.38'

NEAR RCVR 11.17'

FAR RCVR 10.21'

CCL 5.79'

GR 1.67'

TEMP 0.17'



COMPANY LARAMIE ENERGY
WELL GUNDERSON 29-07E
FIELD VEGA
COUNTY MESA STATE COLORADO

LOCATION: _____ ELEVATIONS: _____
KB 7553 FT

FILE NO: CO097897
API NO: 05077097590000

SEC 29 T9S R93W
PAD 29-09



SHL: 2397 FNL & 1170 FEL
BHL: 1642 FNL & 848 FEL

RD 7555 FT
DF
GL 7531 FT

PATTERSON 306

SEC 29 TWP 9S RGE 93W

DATE 23-Jul-2015