



FILE NO: CH097904	COMPANY WELL FIELD COUNTY	LARAMIE ENERGY GUNDERSON 29-14E VEGA MESA	STATE COLORADO
API NO: 05077102300000			

Ver. 4.01 SEC 29 T9S R93W PAD 29-09 PATTERSON 306	LOCATION: SHL: LAT 39.248804 LONG -107.787901 BHL: LAT 39.246113 LONG -107.786788 SEC 29 TWP 9S RGE 93W	OTHER SERVICES RPM
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB KB	ELEVATION 22 FT 22 FT	7631 FT ABOVE P.D.
			ELEVATIONS: KB 7653 FT DF GL 7631 FT

DATE	22-Jul-2015
RUN	1
SERVICE ORDER	US097904
DEPTH DRILLER	7715 FT
DEPTH LOGGER	7664 FT
BOTTOM LOGGED INTERVAL	7654 FT
TOP LOGGED INTERVAL	22 FT
TIME STARTED	8:00
TIME FINISHED	10:30
OPERATOR RIG TIME	2.5 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	46 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	T. NEWELL
RECORDED BY	JOHN GRUBICH
WITNESSED BY	

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	7873 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
4.5 IN	11.6 LB/F		22 FT	7873 FT

REMARKS
RUN 1 TRIP 1: THIS IS THE FIRST LOG ON THIS WELL.
LOGGED WITH ZERO PSI AT WELLHEAD
BHT = 242 degF
SJ = 5915' - 5937'
SJ = 6818' - 6840'
THERE ARE CEMENT MAP TOOL SPIKES ON THE LOG OCCURRING AT 3765', 6499' AND 6910' INDICATING POOR CEMENT BOND. THE BOND IS ACTUALLY GOOD IN THOSE SPOTS.
THANK YOU FOR CHOOSING BAKER HUGHES ... THE BEST CHOICE!

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	CBL	1426XA	10417452	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: Wed Jul 22 12:34:31 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH097904/n012g03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 24.750 ft BOTTOM DEPTH: 5321.250 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*)	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*)	176	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*)	-67	us	"	"
	TOOL DELAY (str2*)	-67	us	"	"
	TOOL DELAY (str3*)	-67	us	"	"
	TOOL DELAY (str4*)	-67	us	"	"
	TOOL DELAY (str5*)	-67	us	"	"
	TOOL DELAY (str6*)	-67	us	"	"
	TOOL DELAY (str7*)	-67	us	"	"
	TOOL DELAY (str8*)	-67	us	"	"
	TOOL DELAY (strn*)	-67	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	"	"

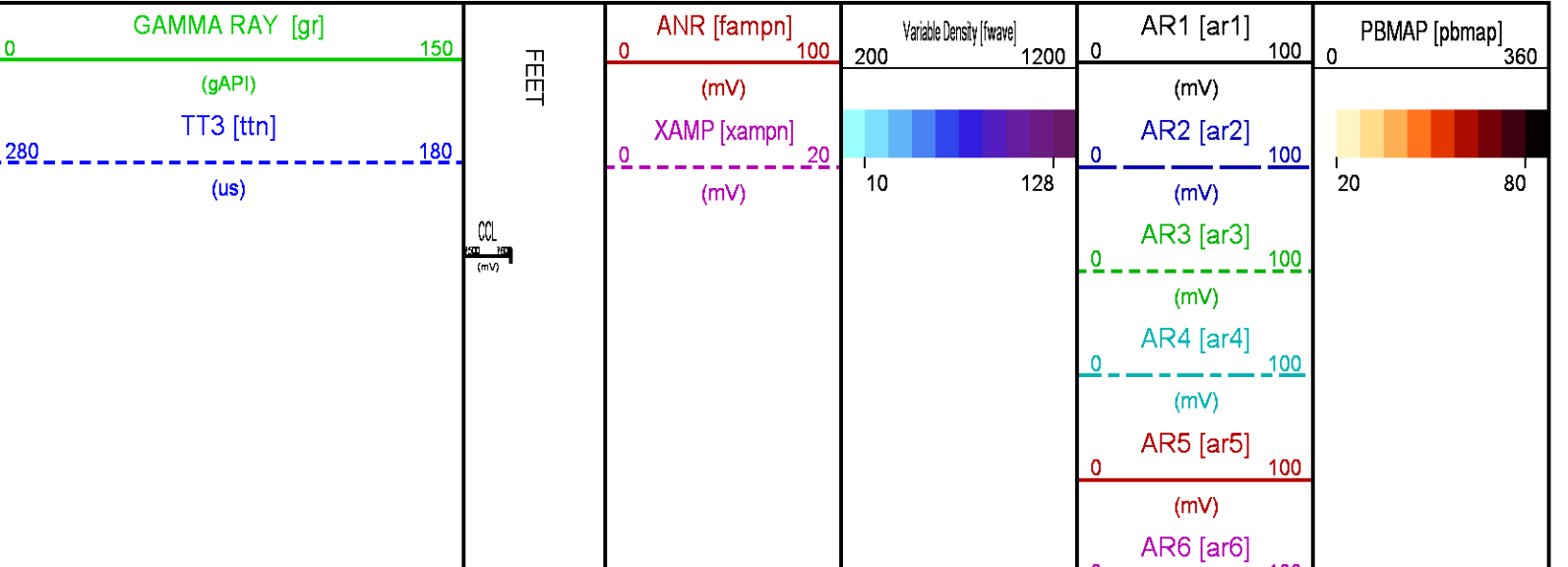
CURVE DESCRIPTION REPORT

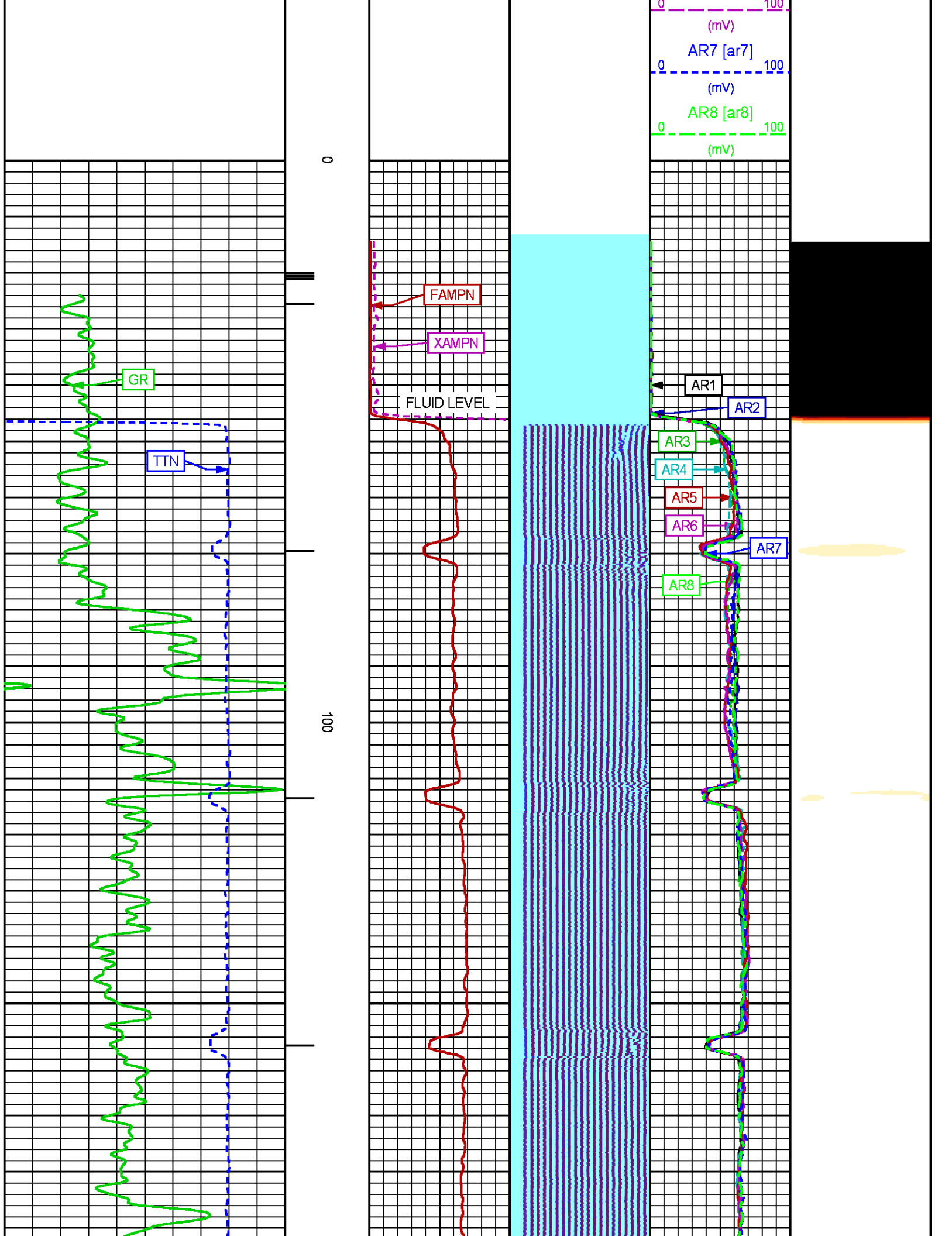
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 22 09:38:14 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 22 09:38:14 2015	FAR WAVE FORM
F1:GR	Jul 22 09:38:14 2015	GAMMA RAY
F1:PBMAP	Jul 22 09:38:14 2015	PERCENT BOND CEMENT MAP
F1:TTN	Jul 22 09:38:14 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 22 09:38:14 2015	FIXED GATE AMPLITUDE NEAR RECEIVER TIMES FIVE

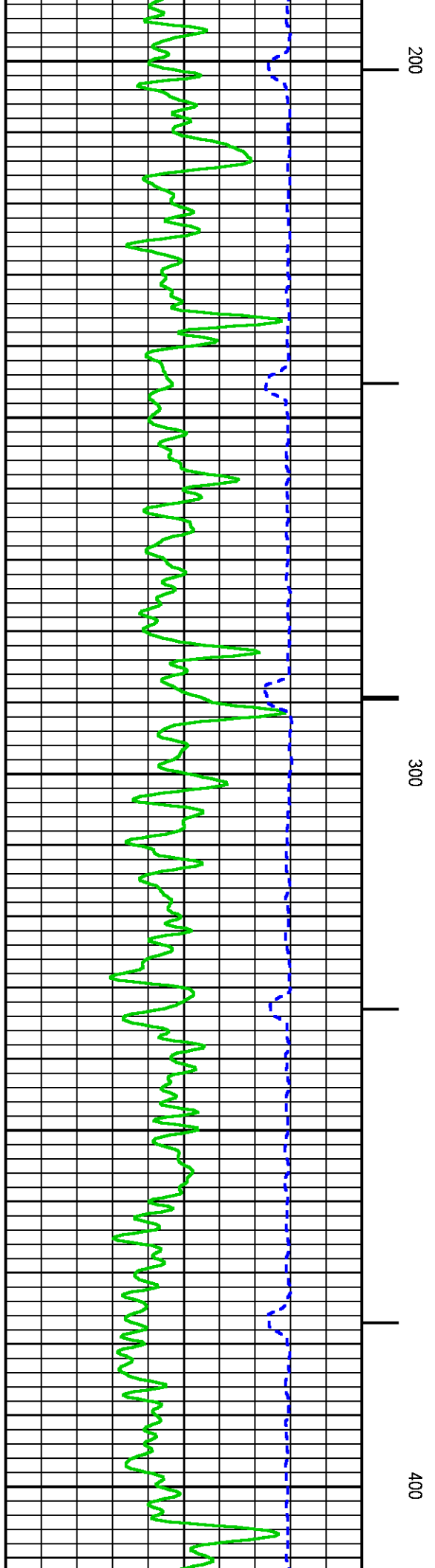
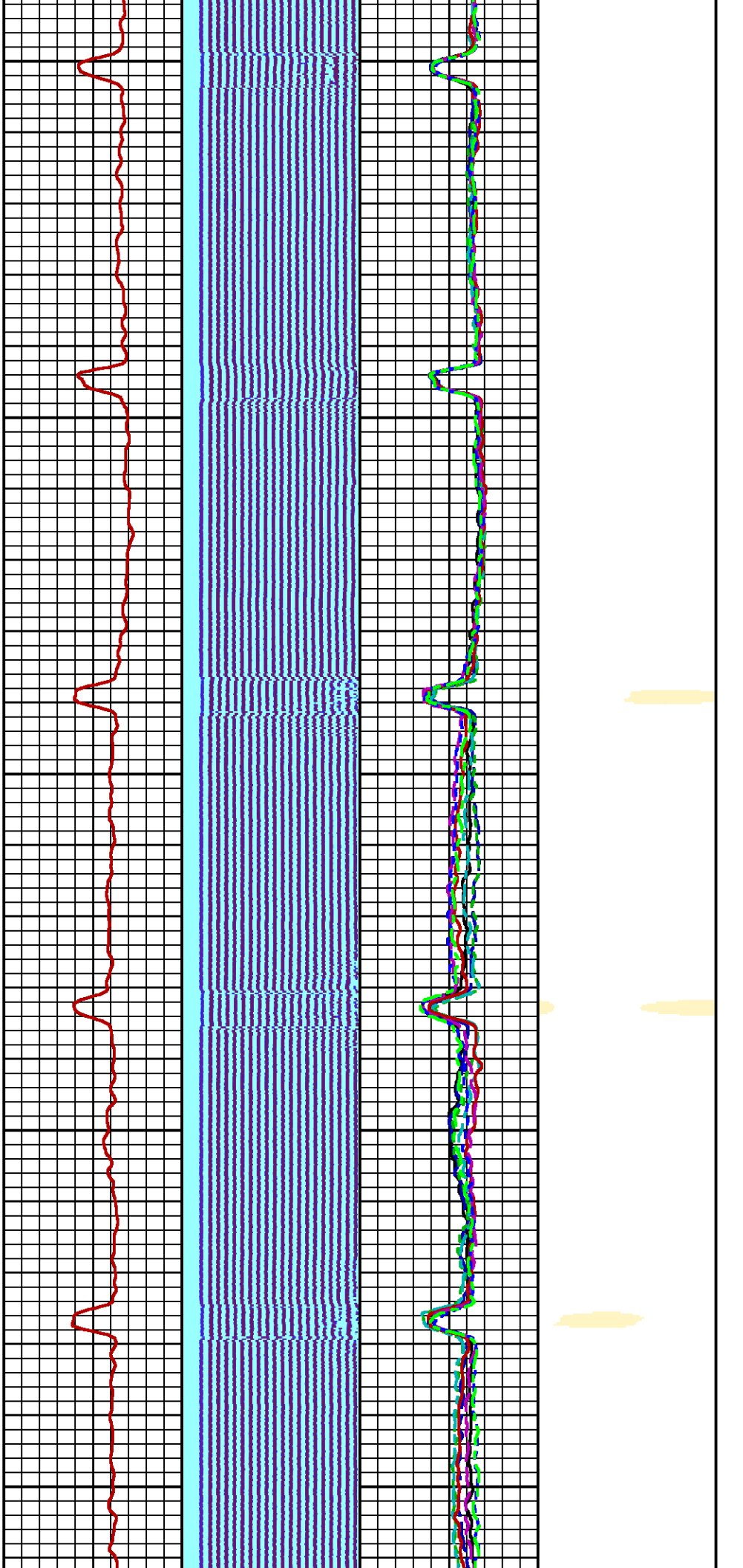
CURVE MEASURE POINT OFFSET

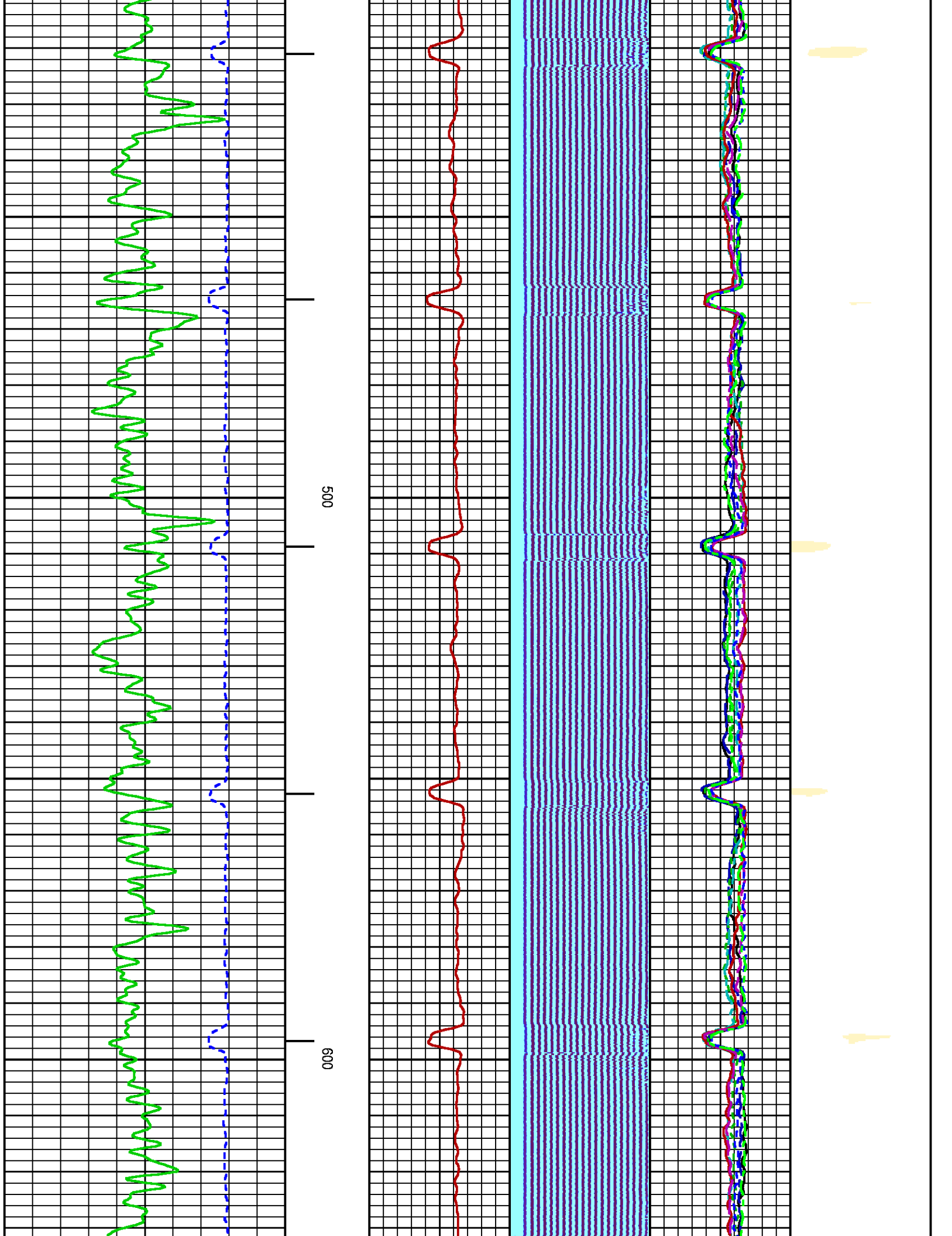
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
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AR2	11.25	AR6	11.25	FAMPN	11.25		
AR3	11.25	AR7	11.25	GR	1.75		
AR4	11.25	AR8	11.25	TTN	11.25		

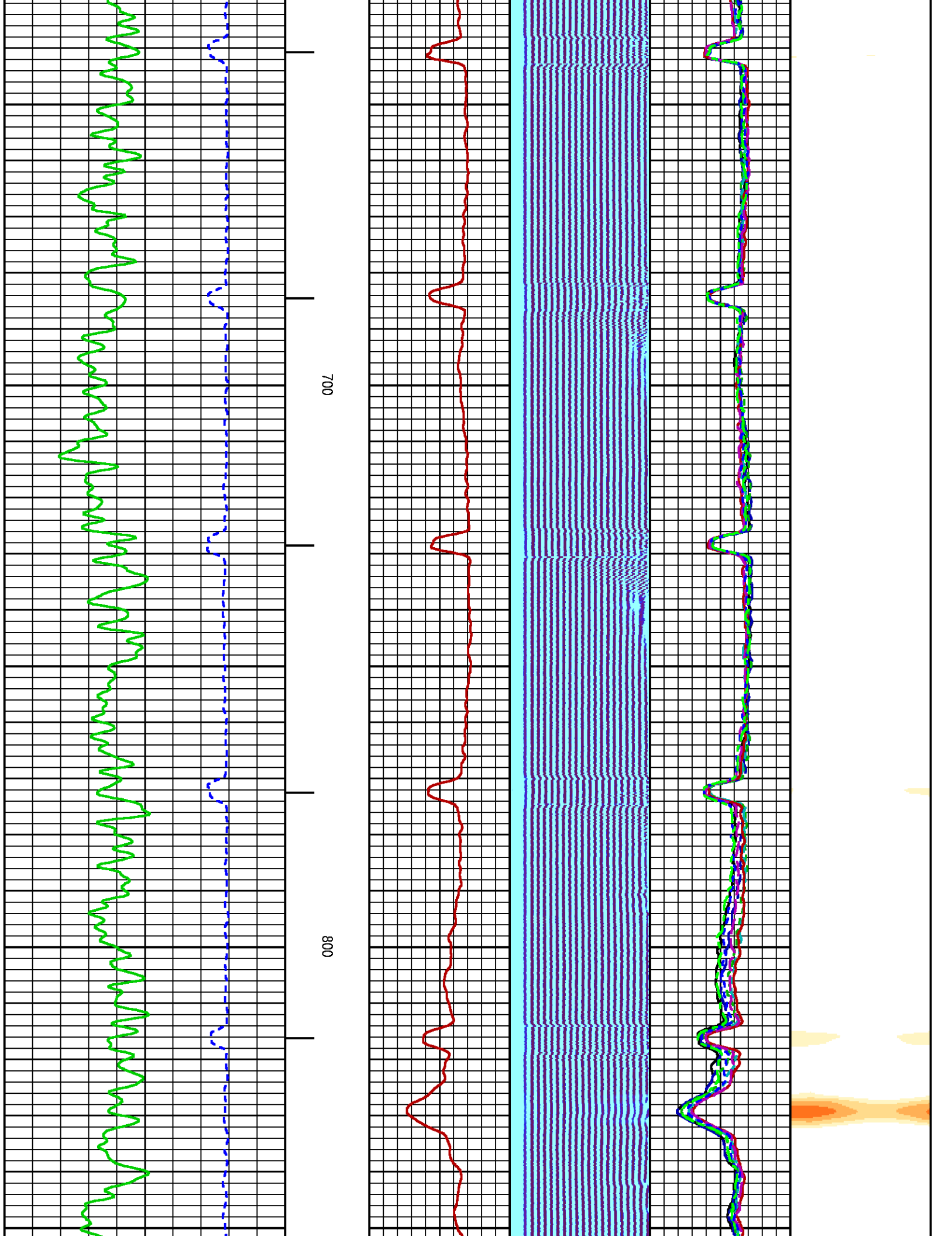
Presentation	: HL6670:/dat1a/CH097904/14E_CBL_MAIN.fvpdf [5"/100' Scale]
Plot Interval	: 0 - 7670 Feet
Data File 1	: F1 : HL6670:/dat1a/CH097904/14ECBLMAIN.xtf
Created On	: Jul 22 09:38:14 2015
Company	: LARAMIE ENERGY
Well	: GUNDERSON 29-14E
Field	: VEGA
File Interval	: 13.25 - 7674 Feet
OCT	: n012g

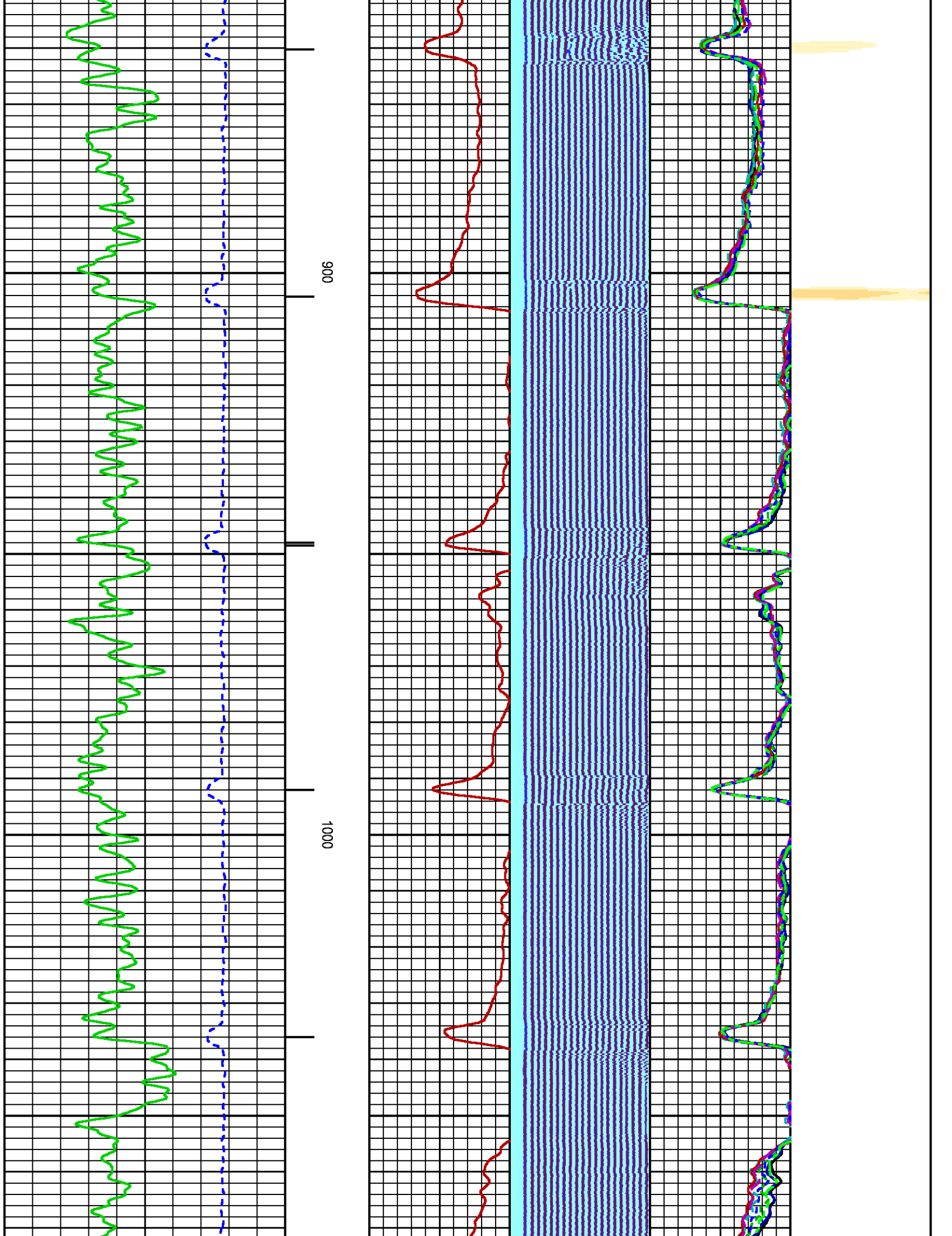


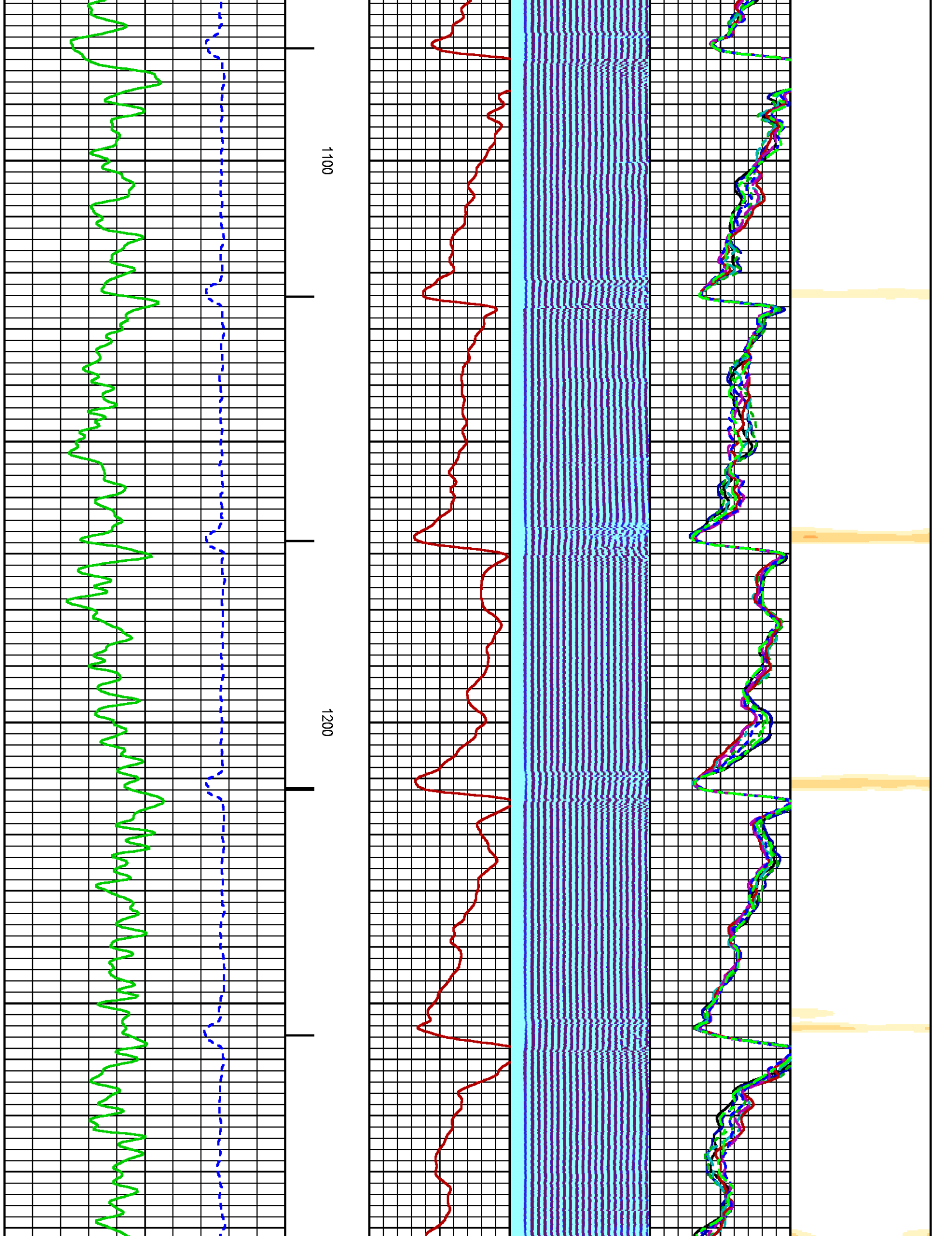


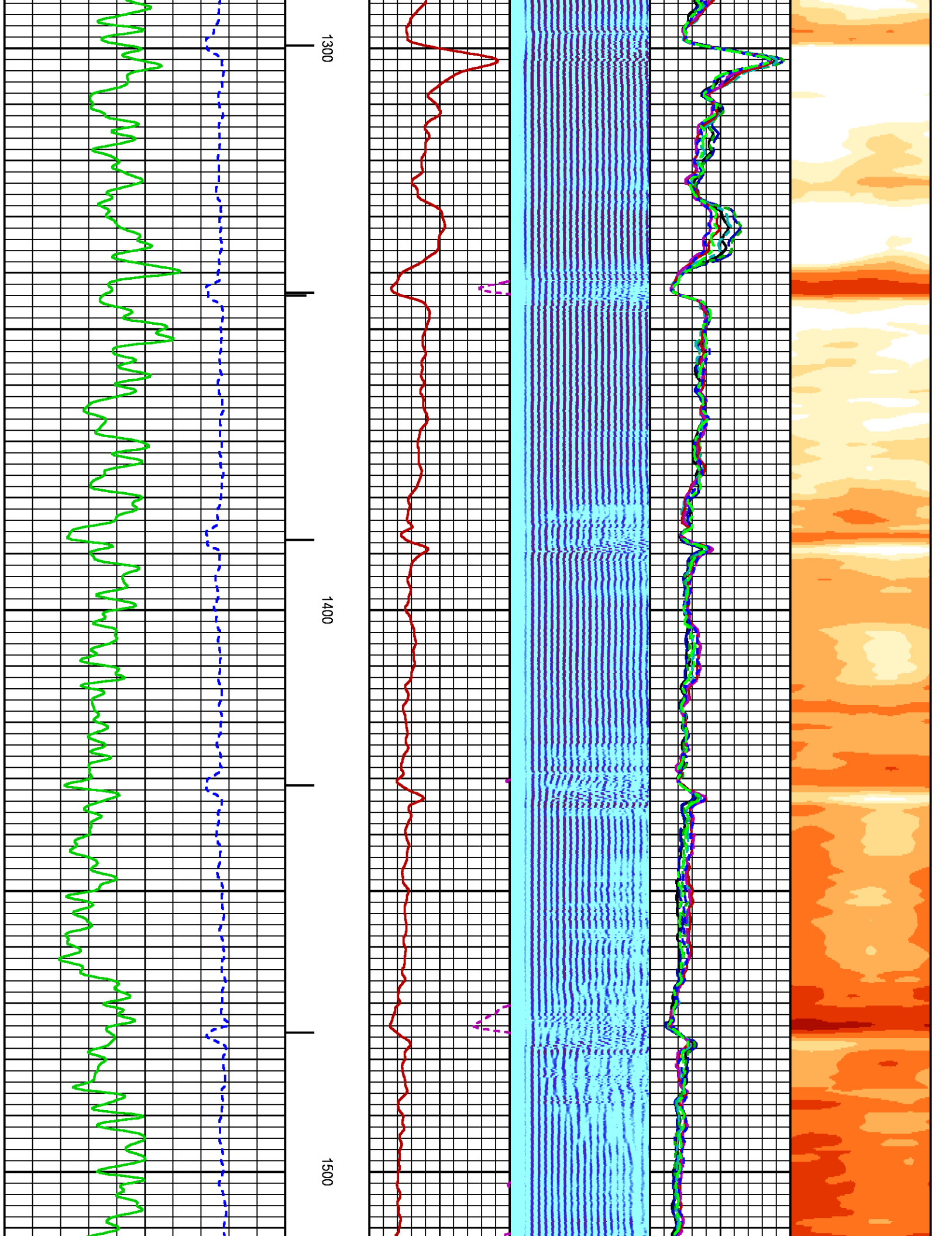


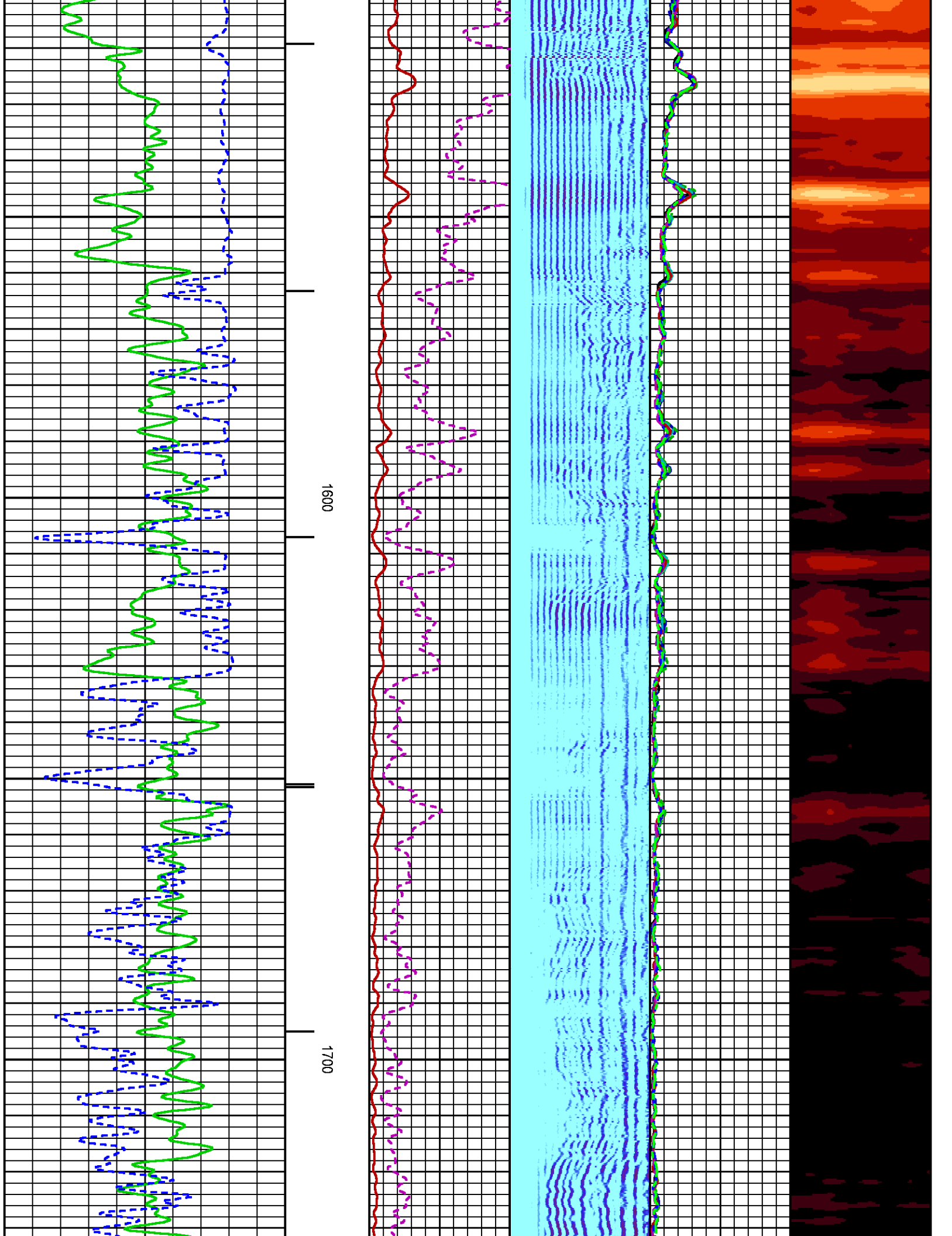


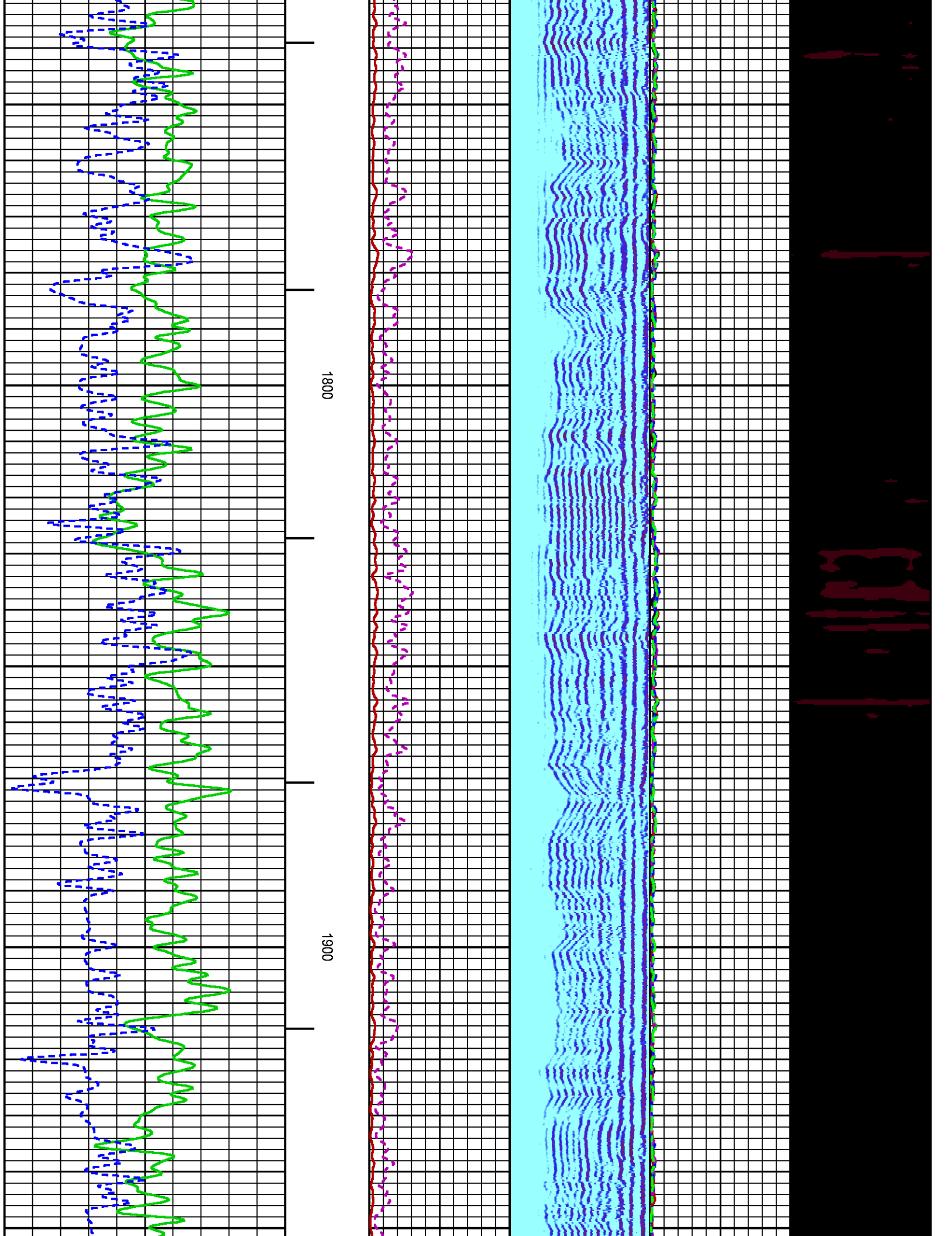


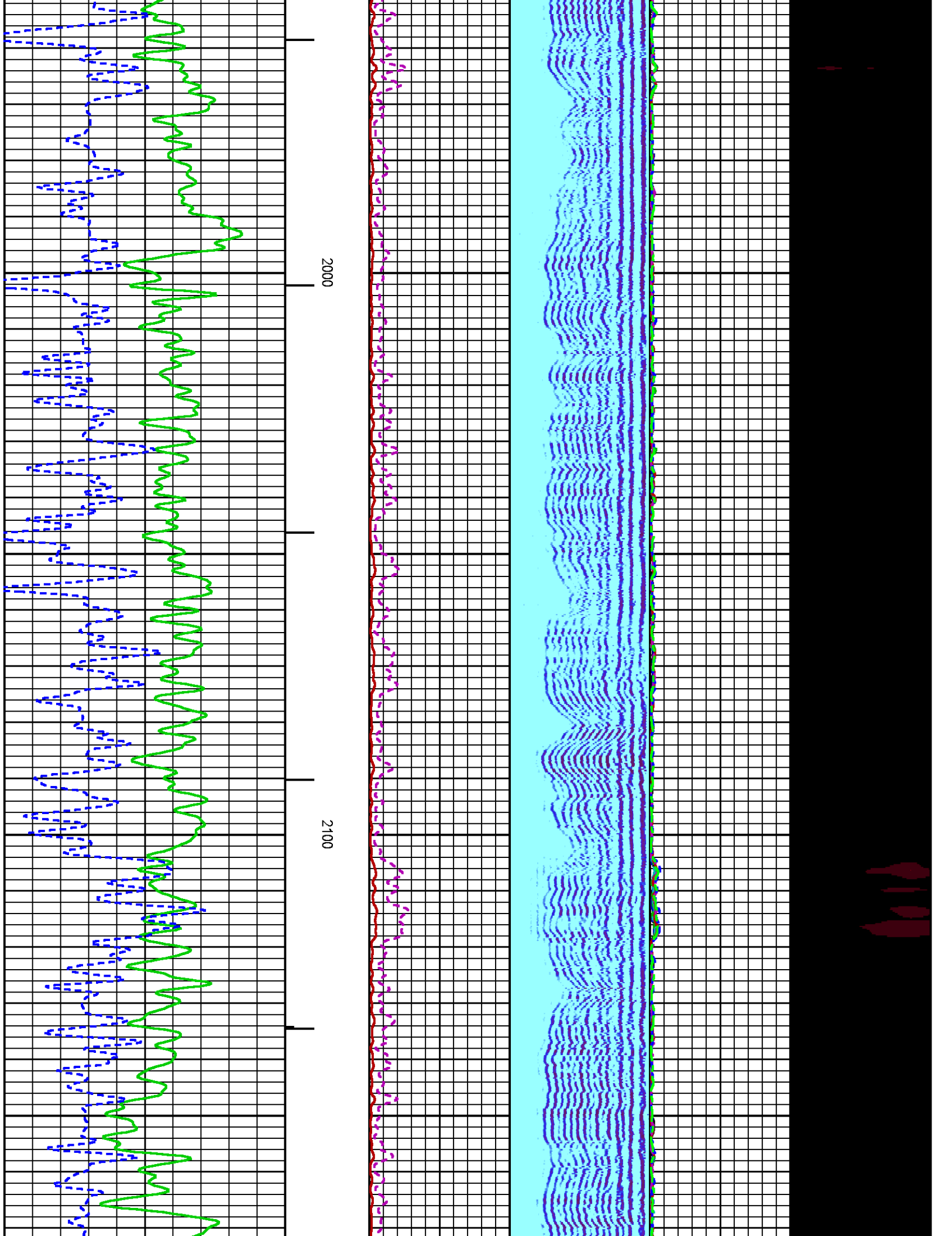


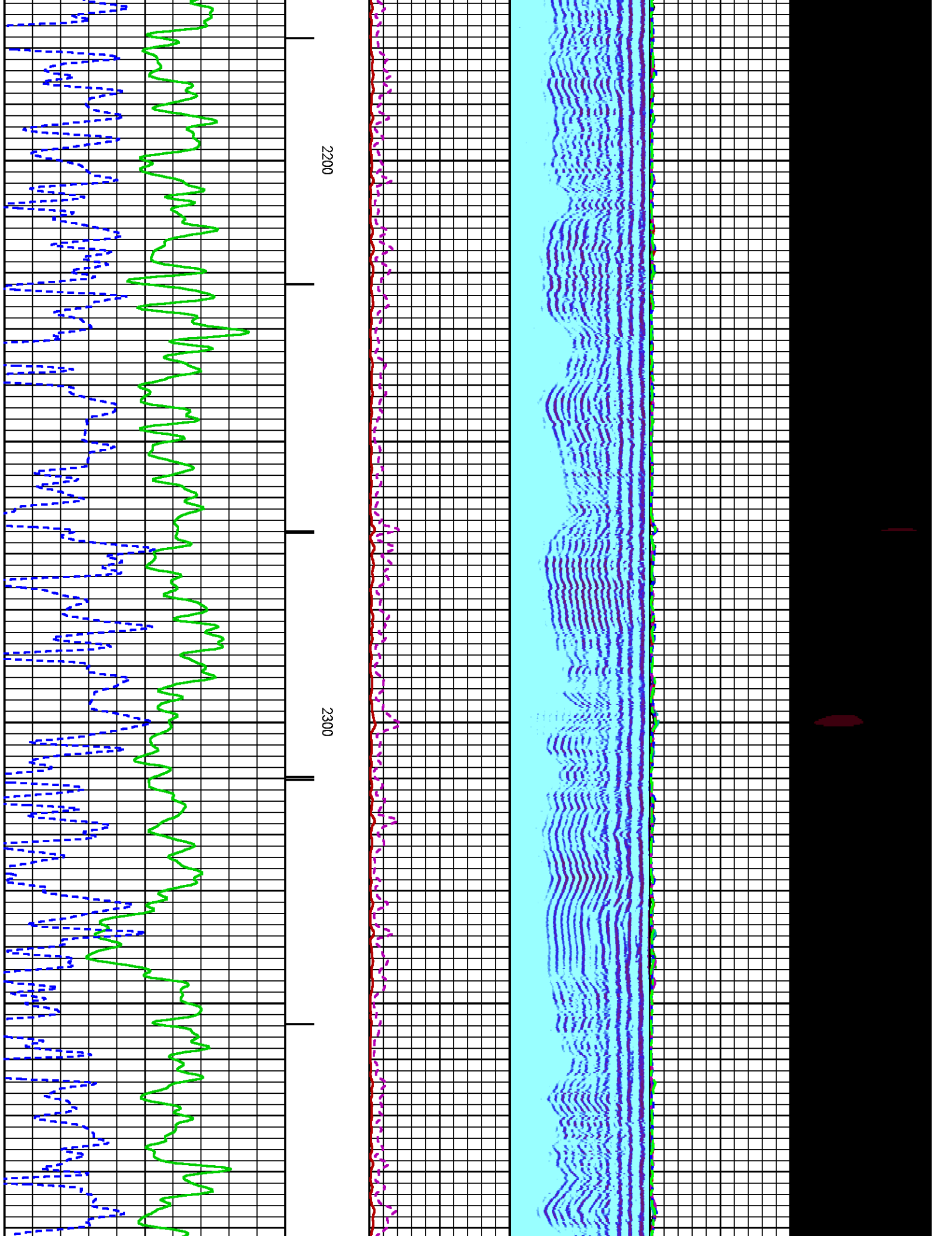


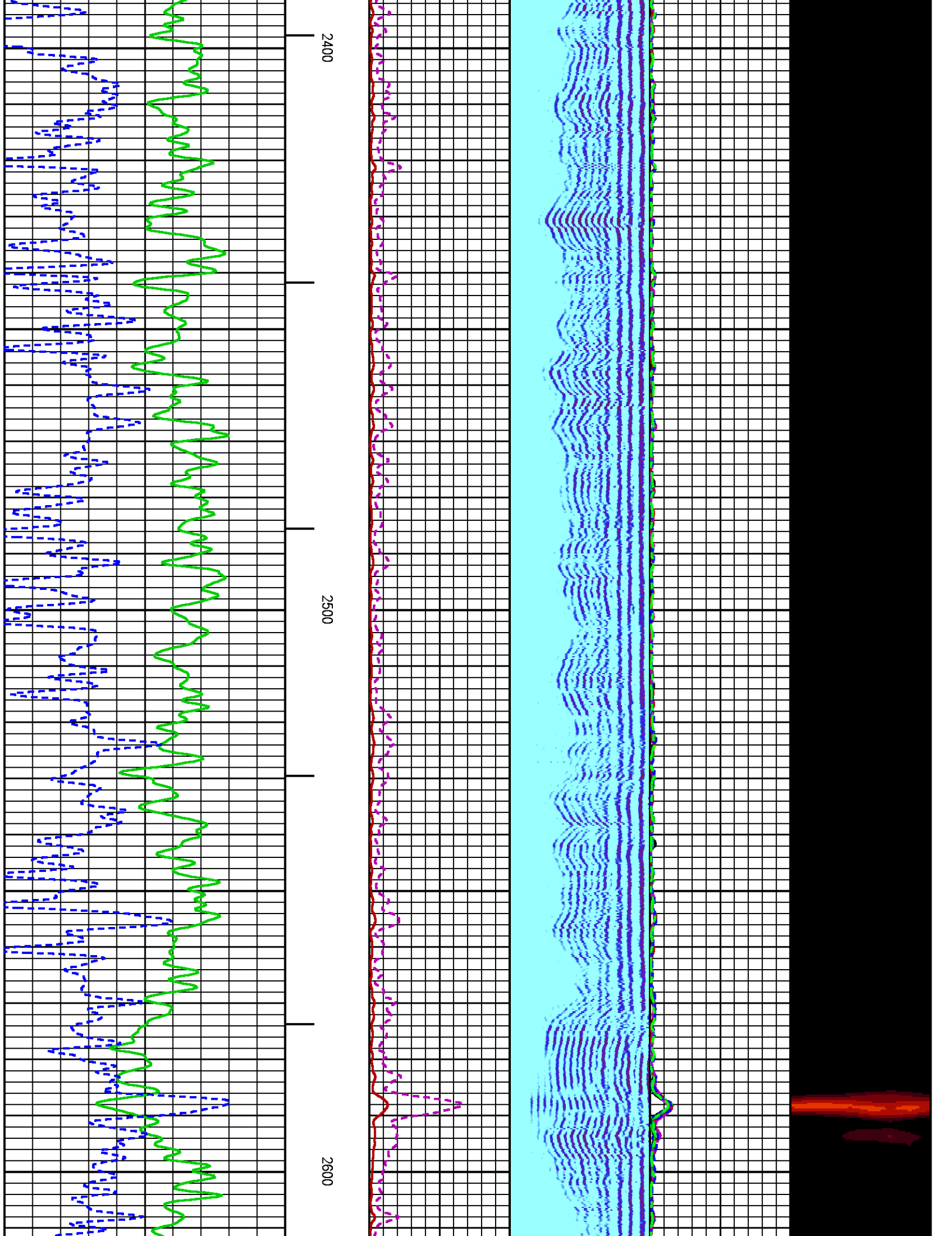


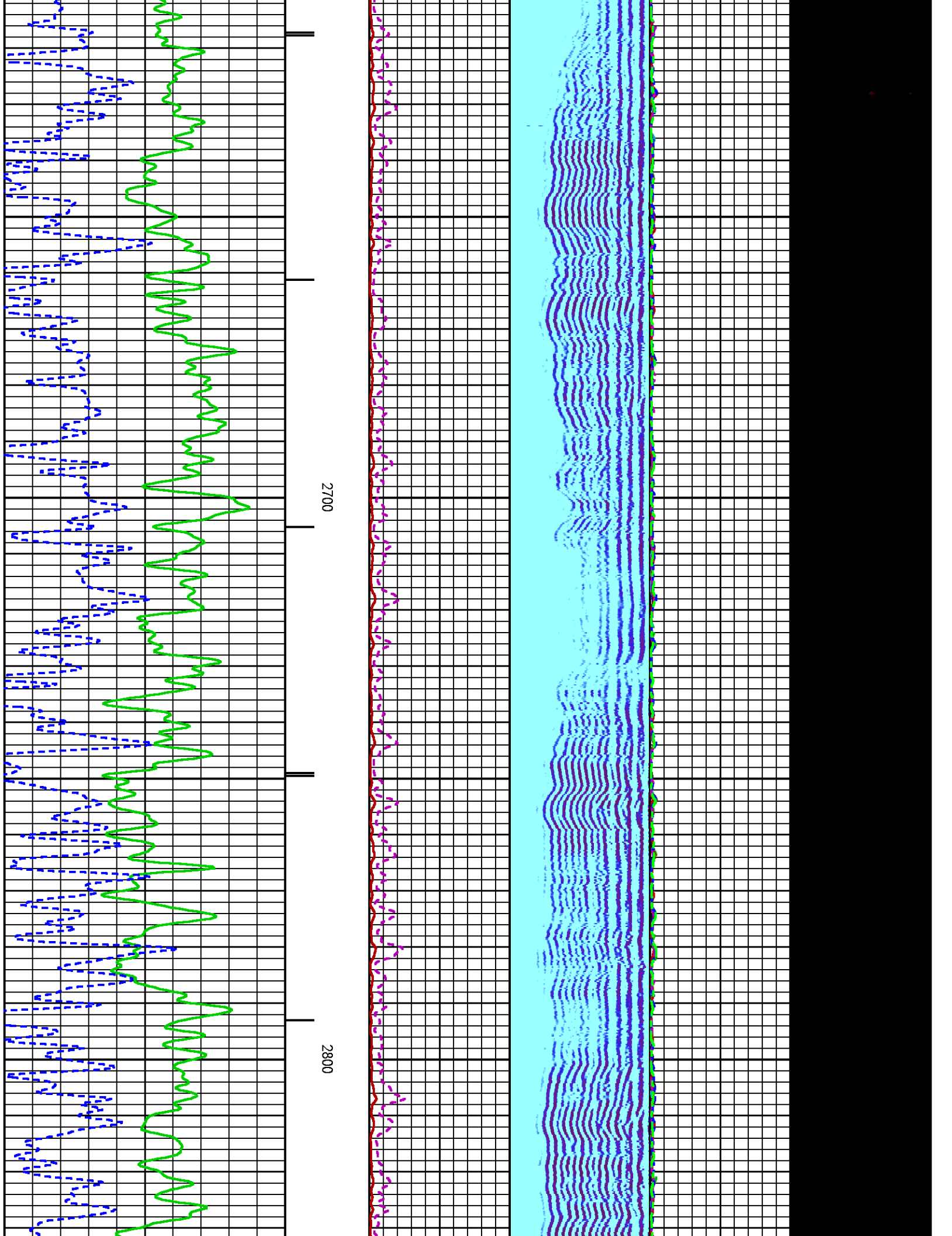


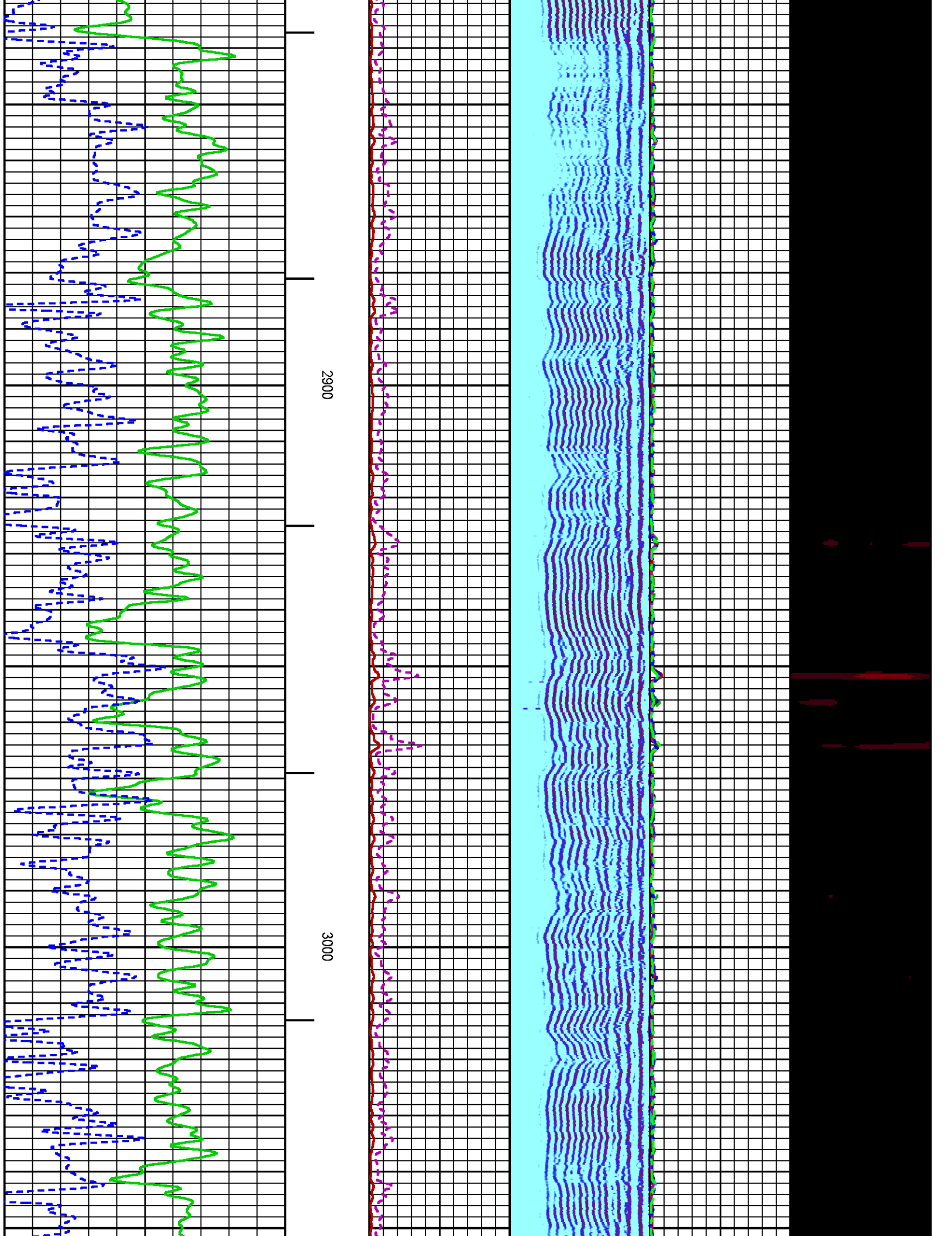


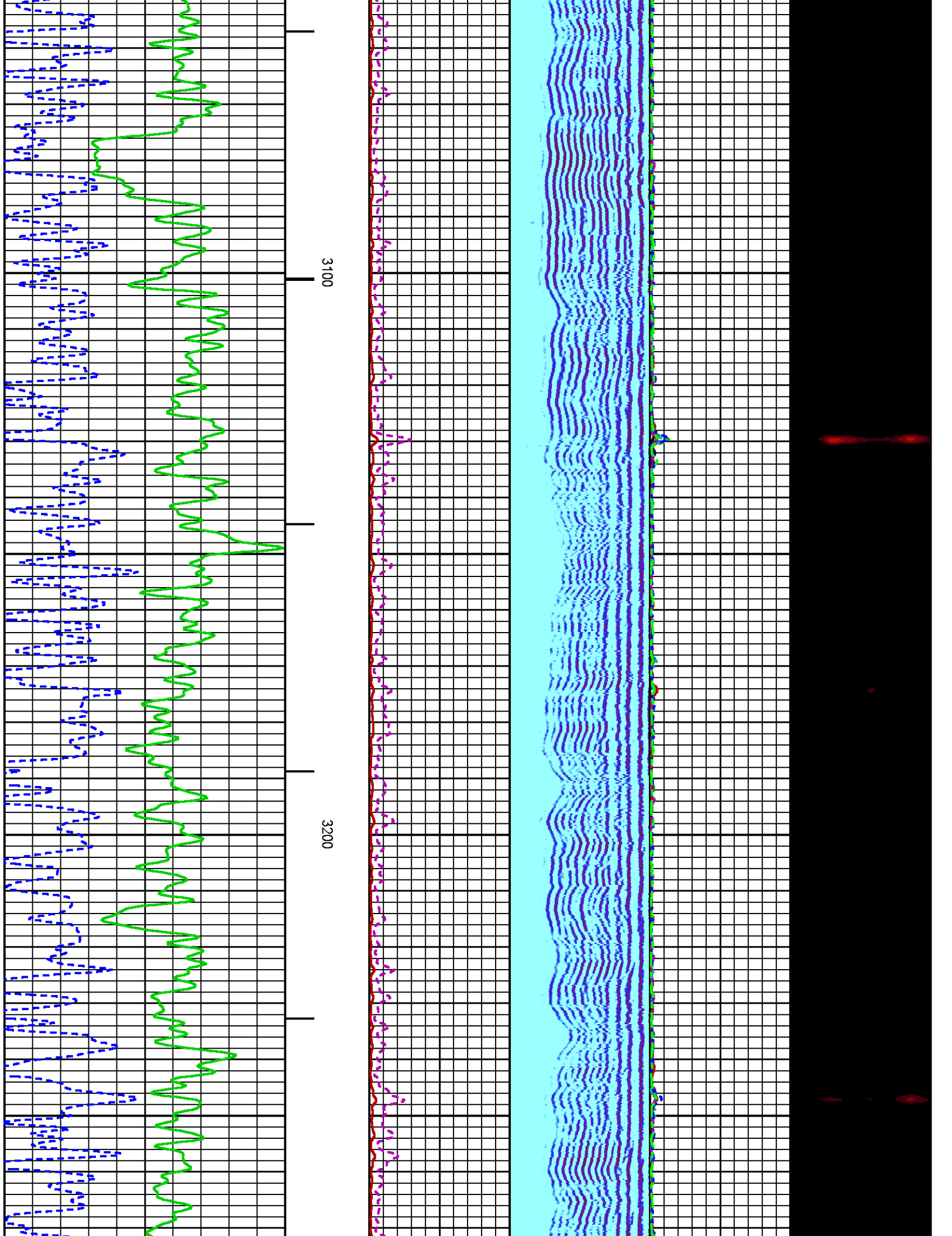


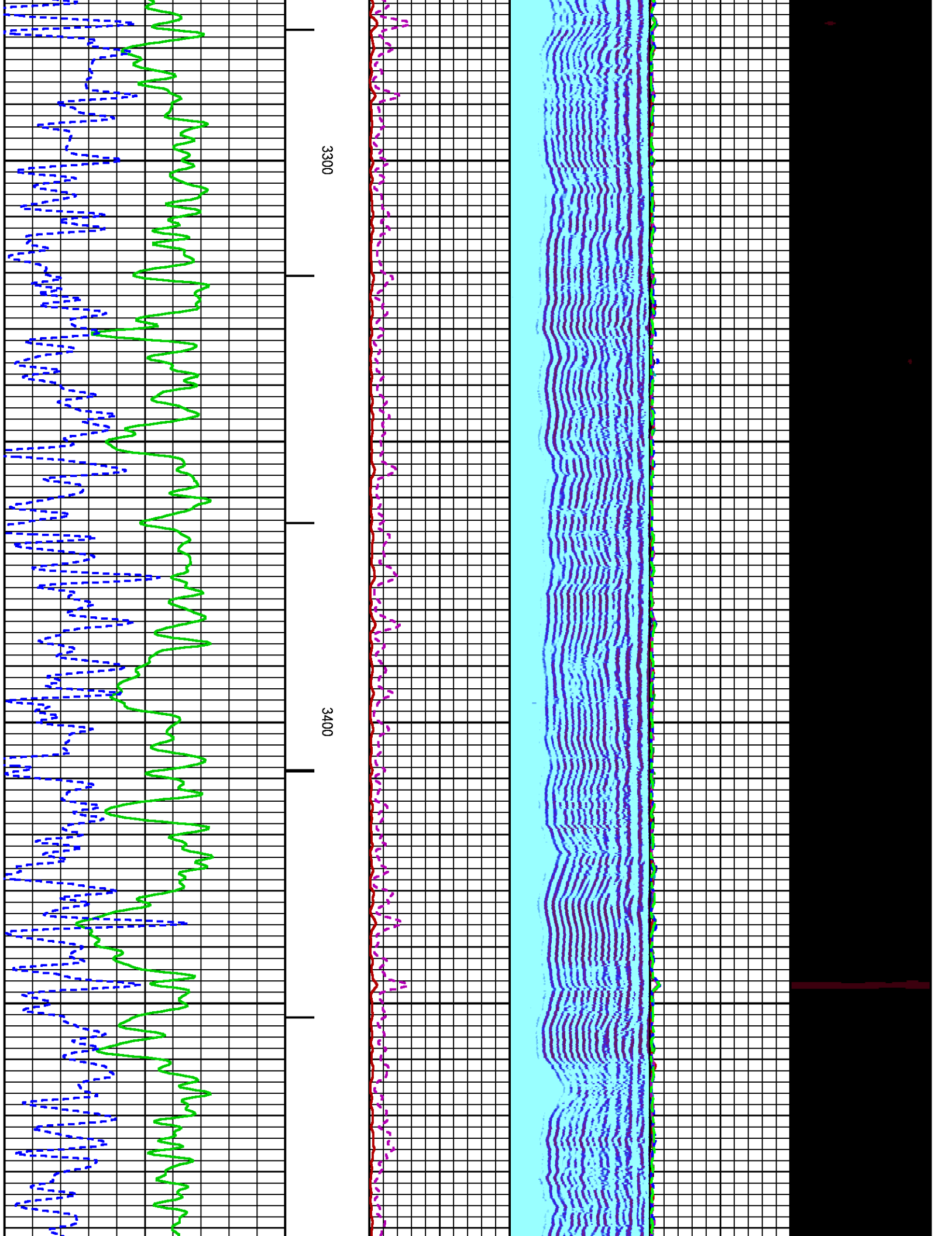


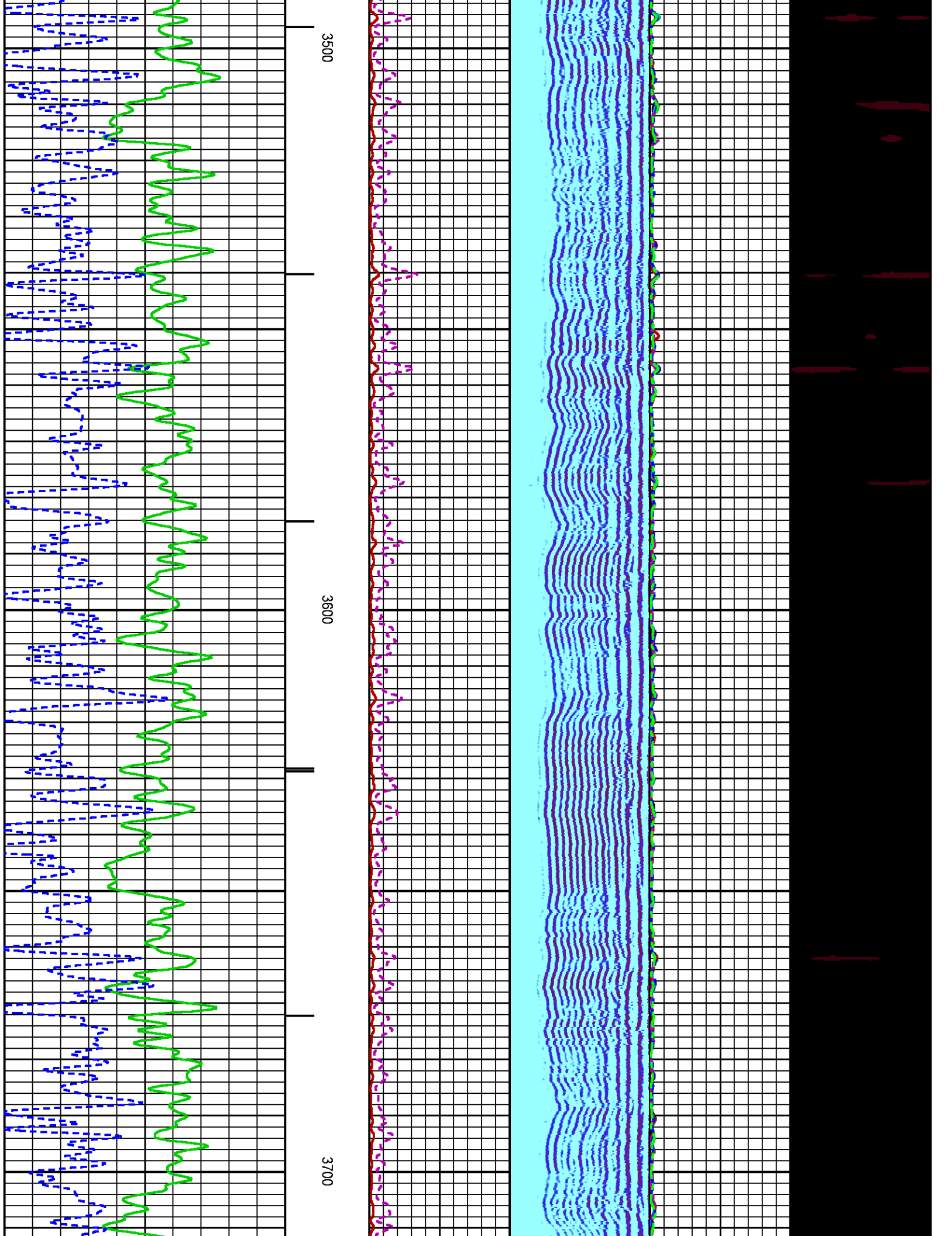


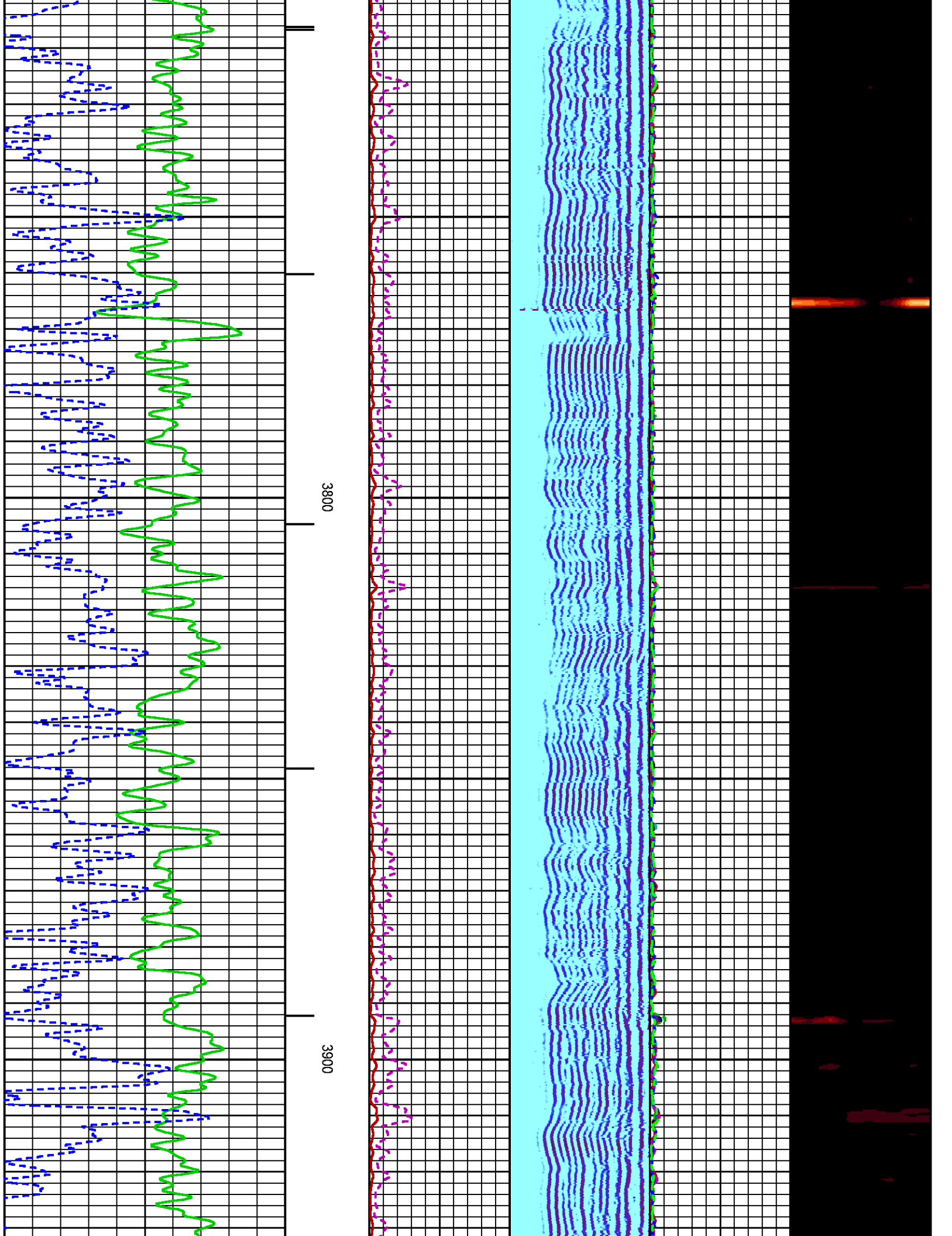


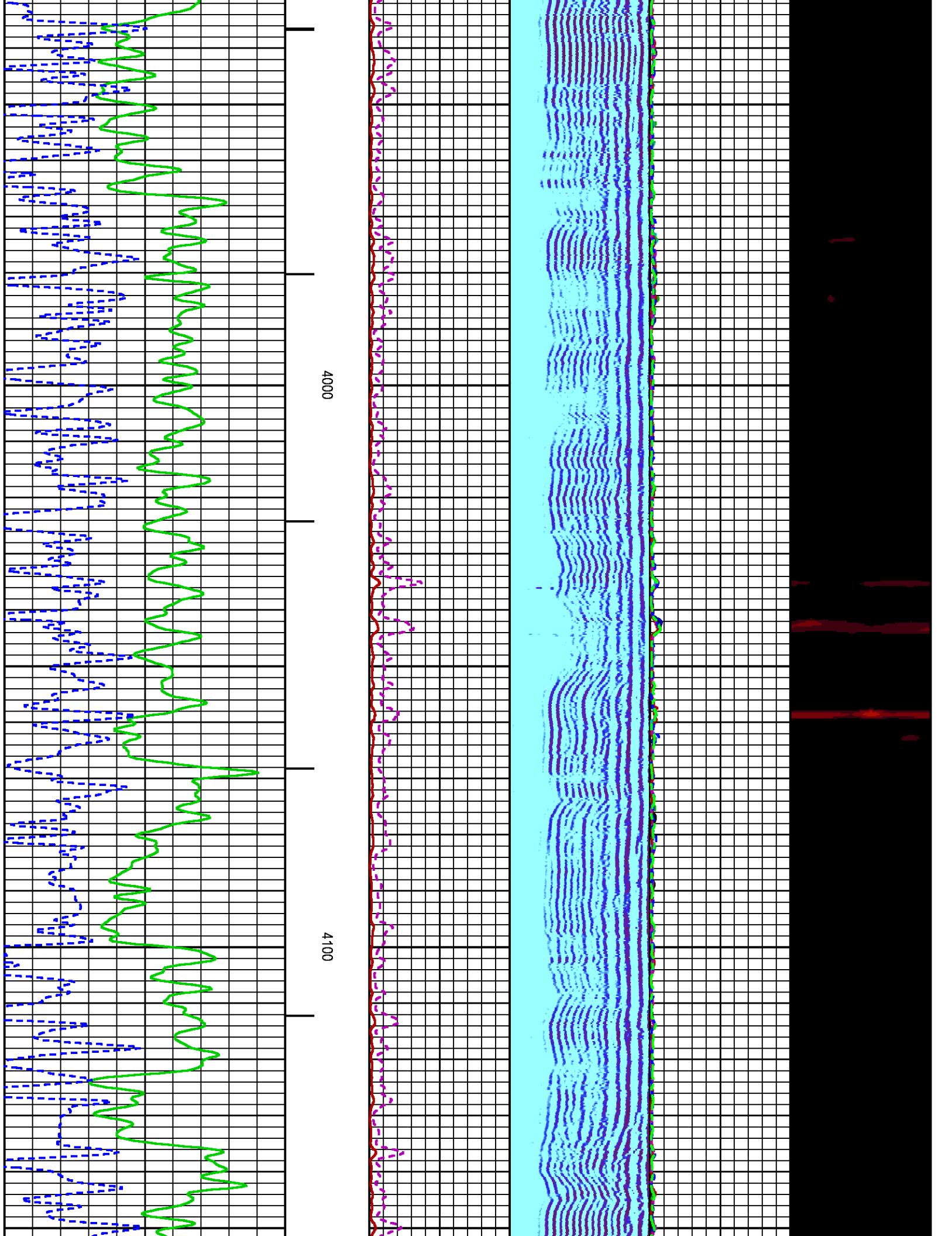


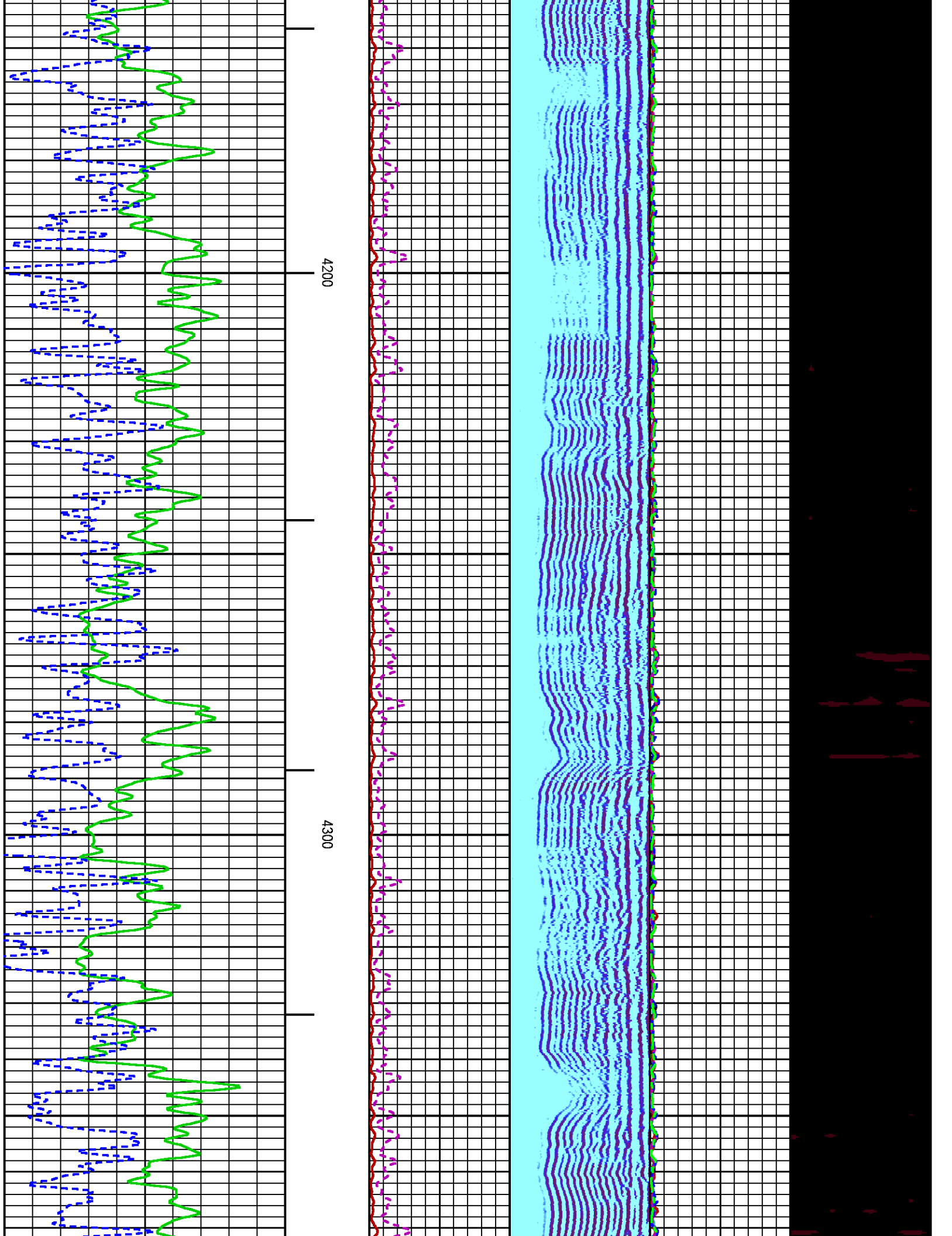


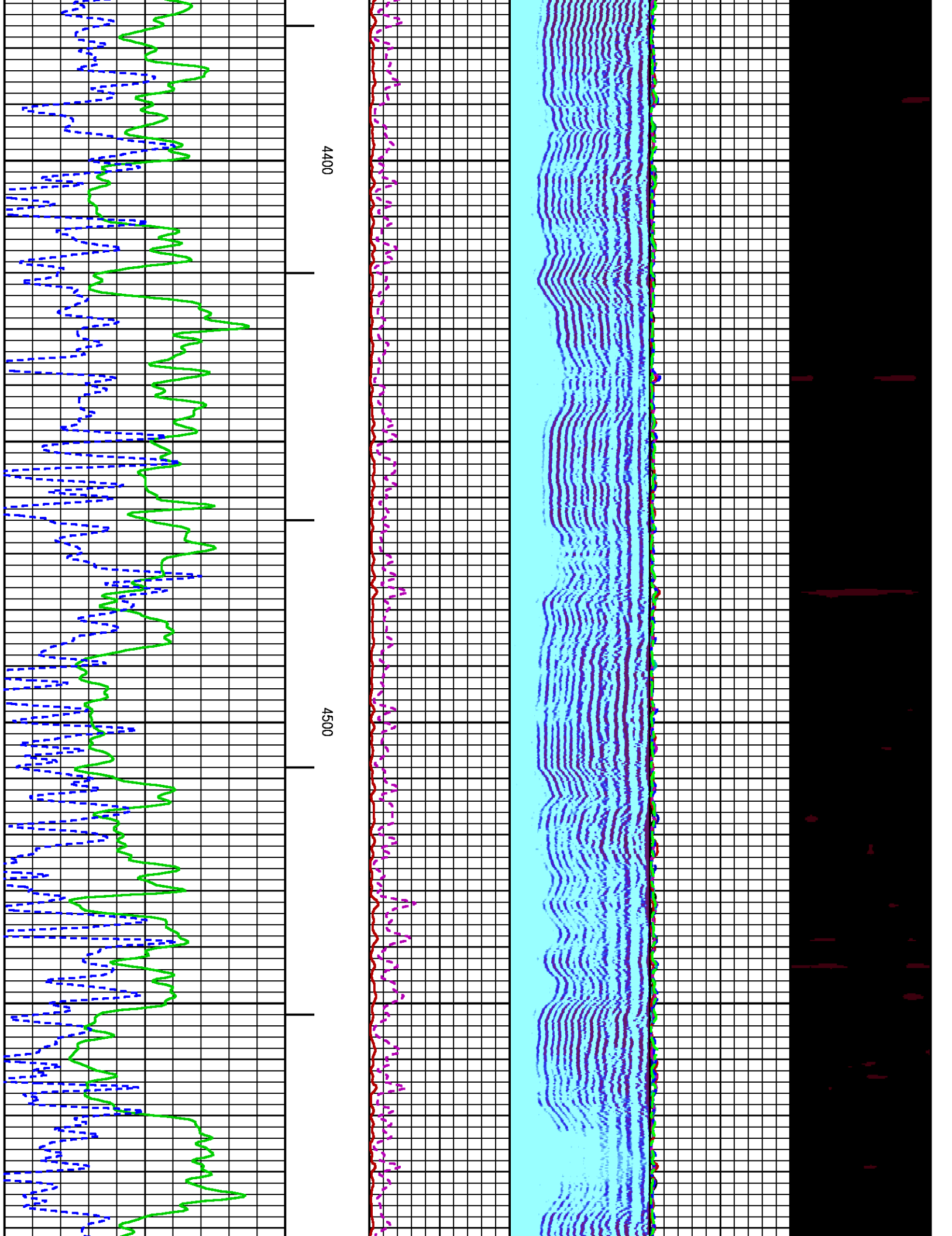


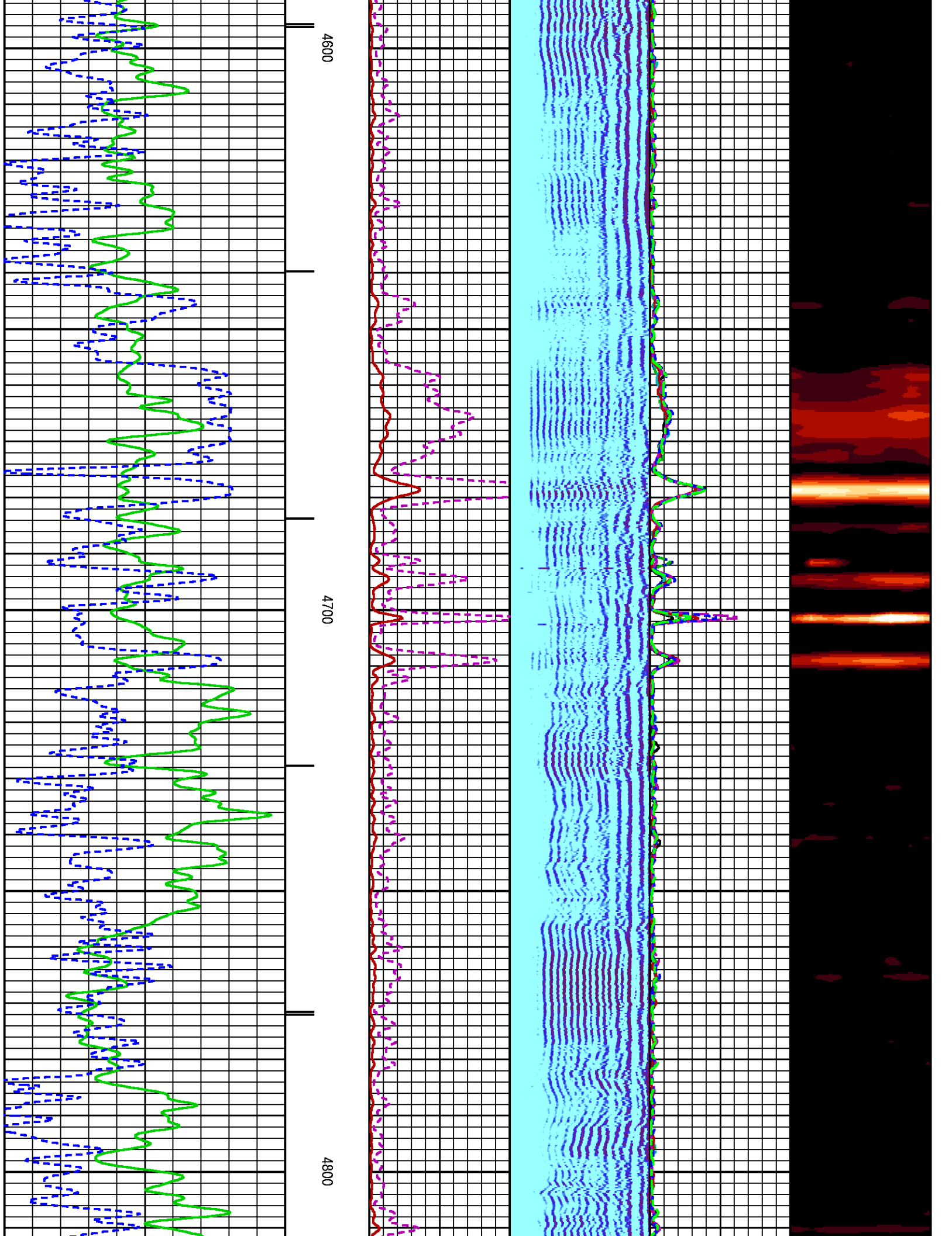


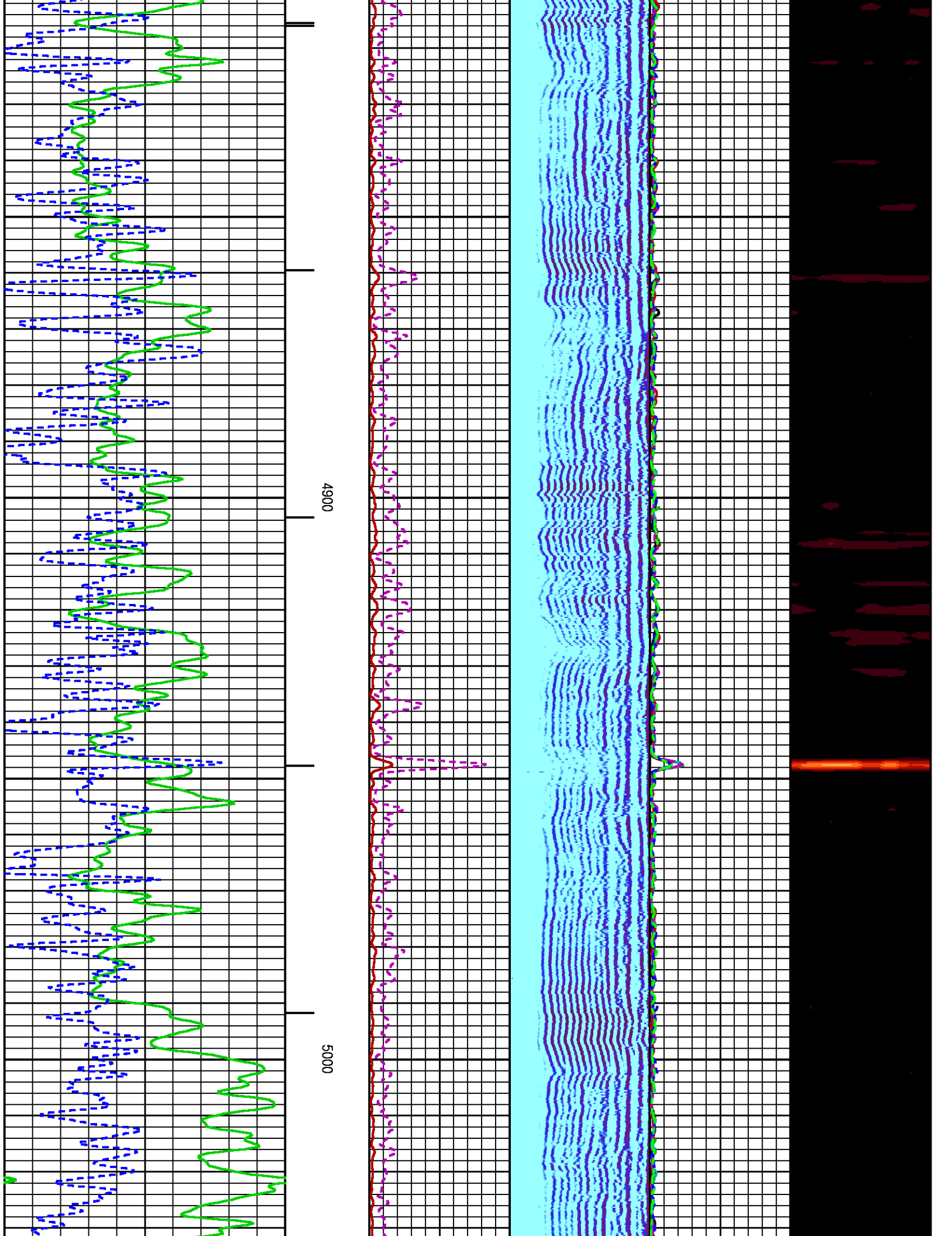


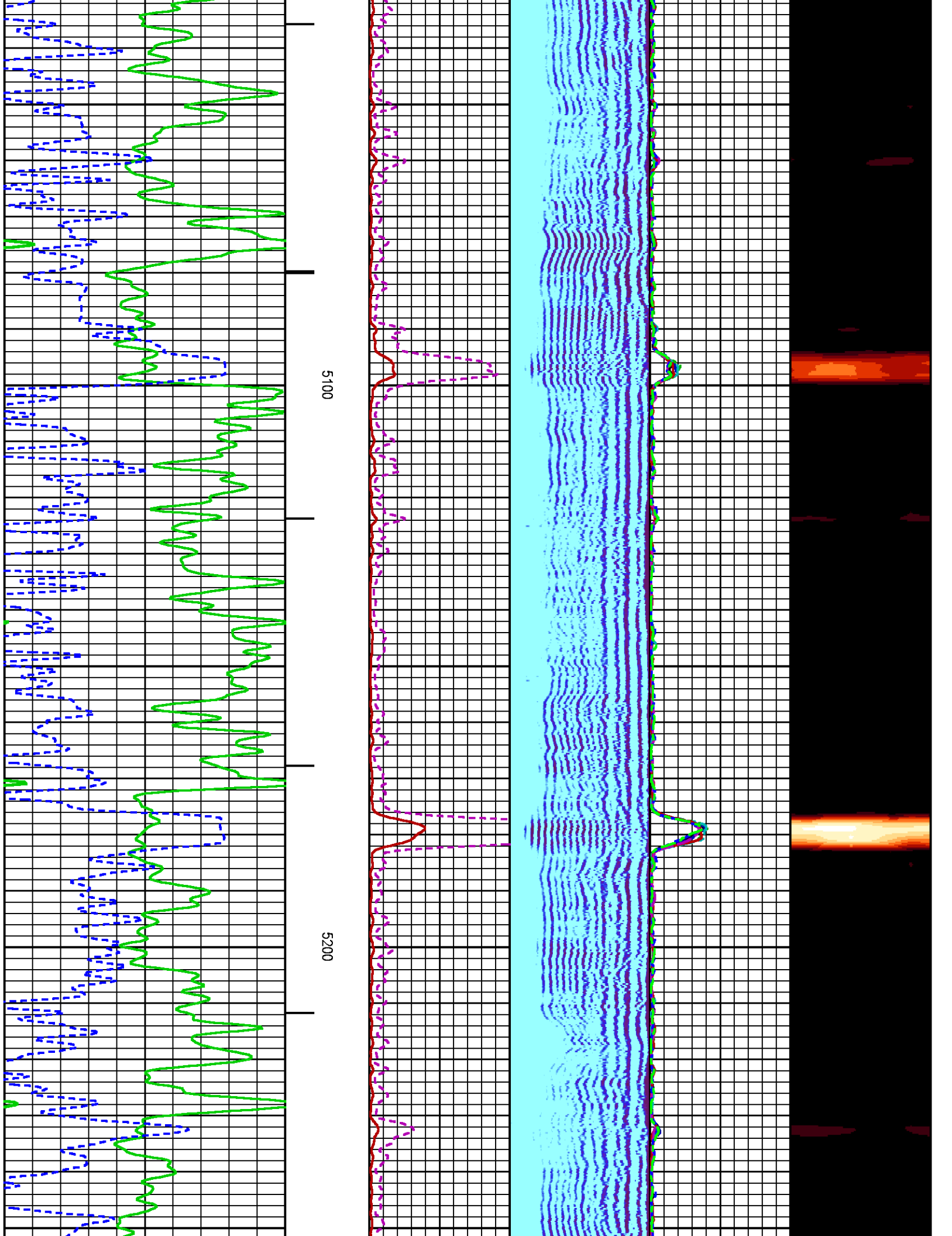


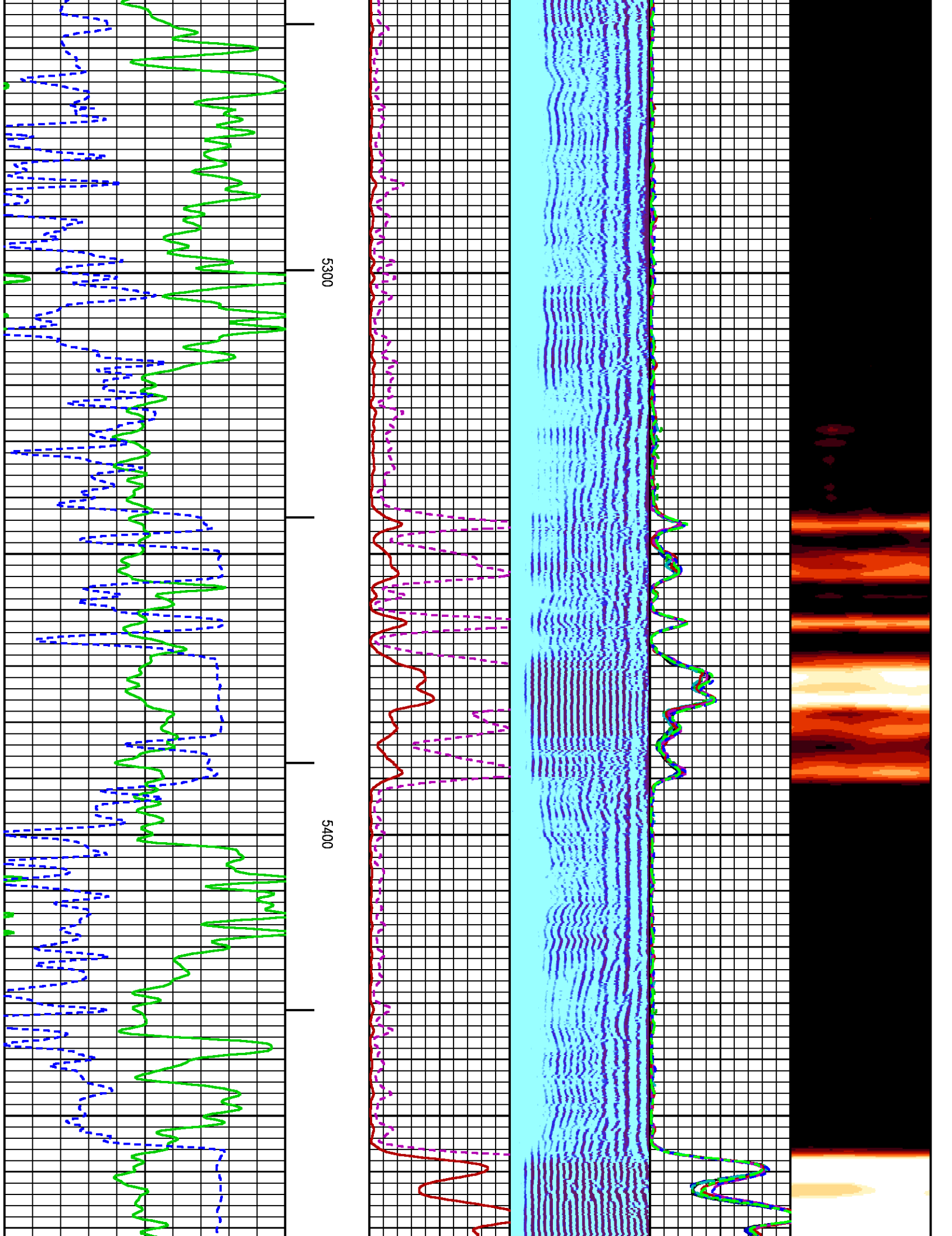


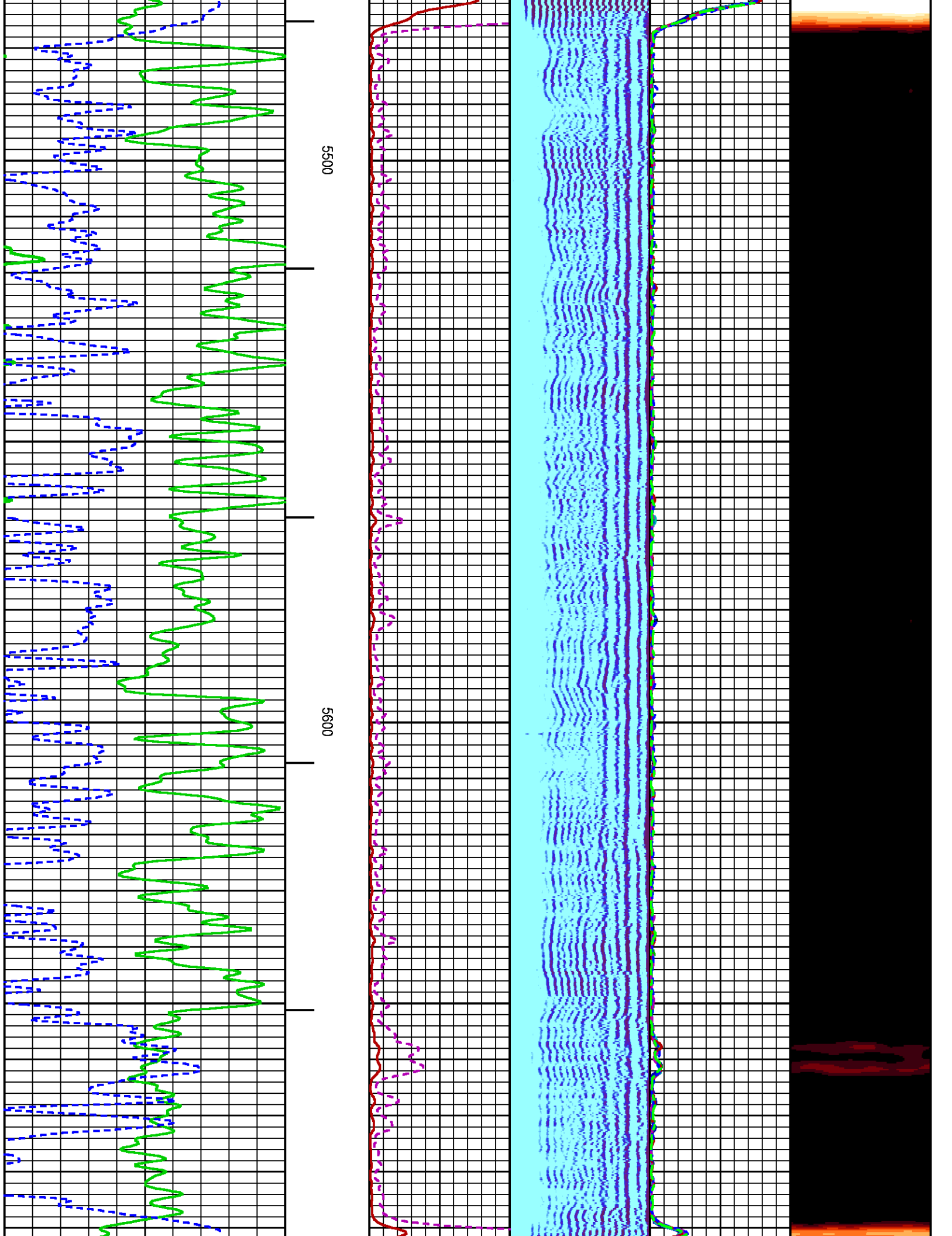


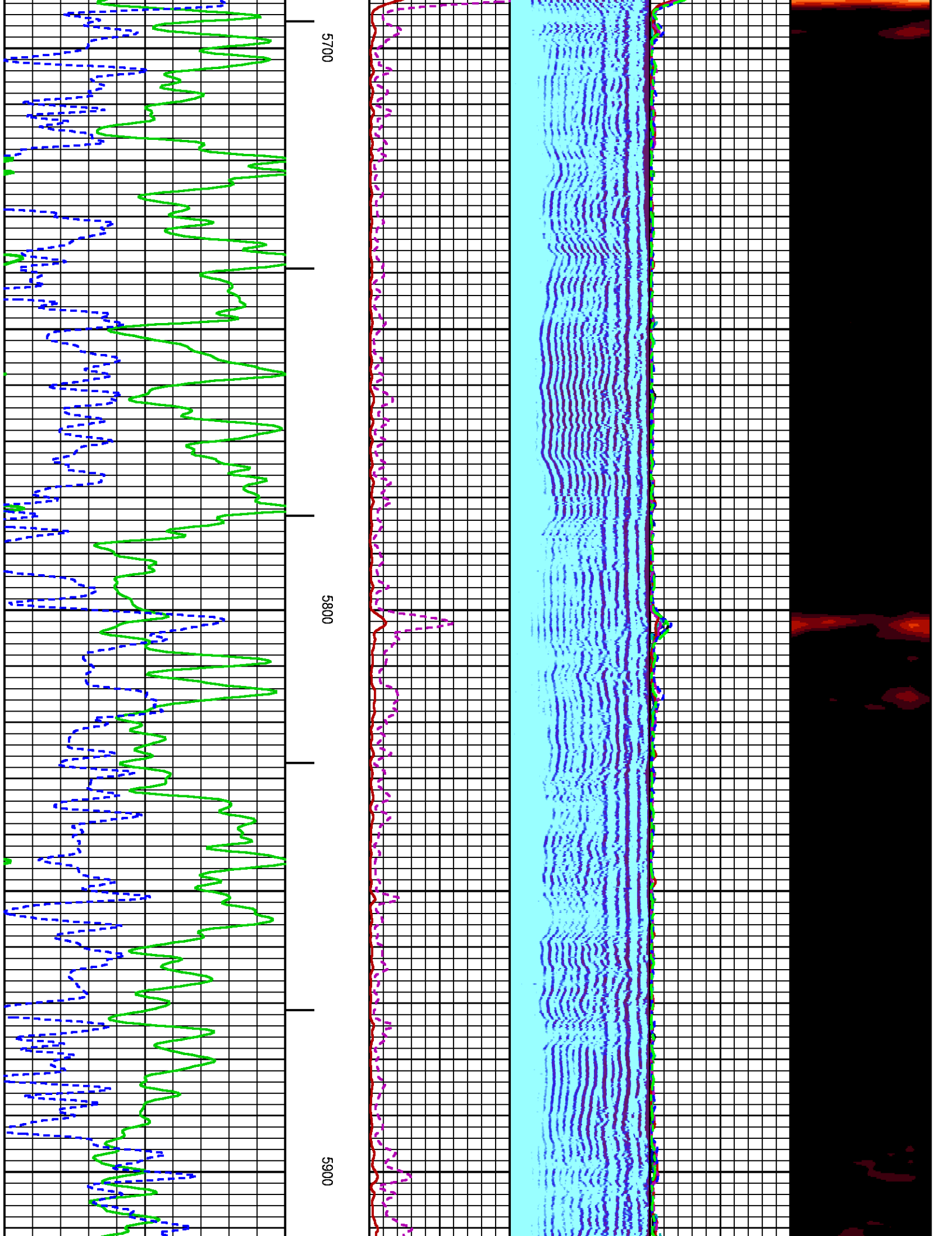


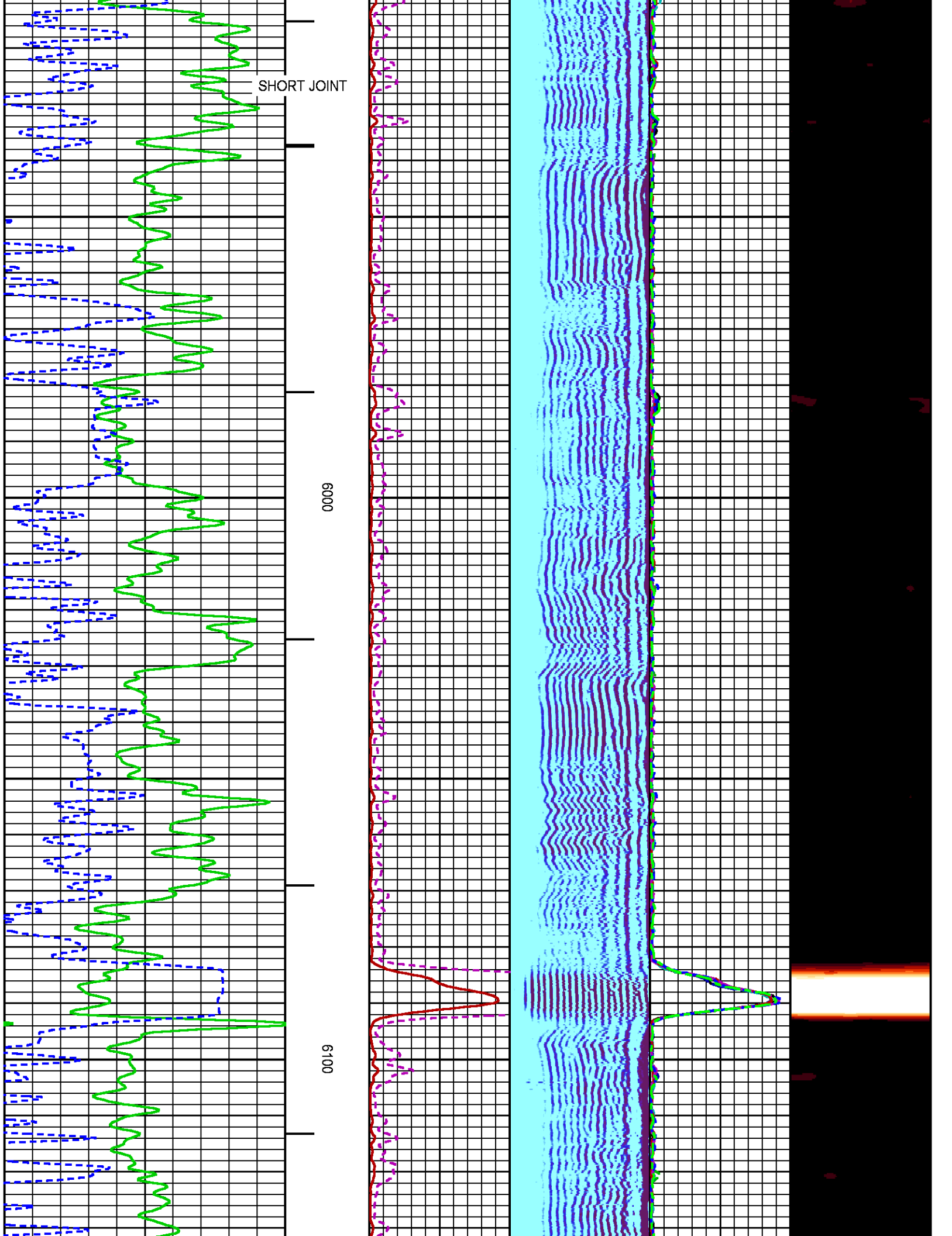


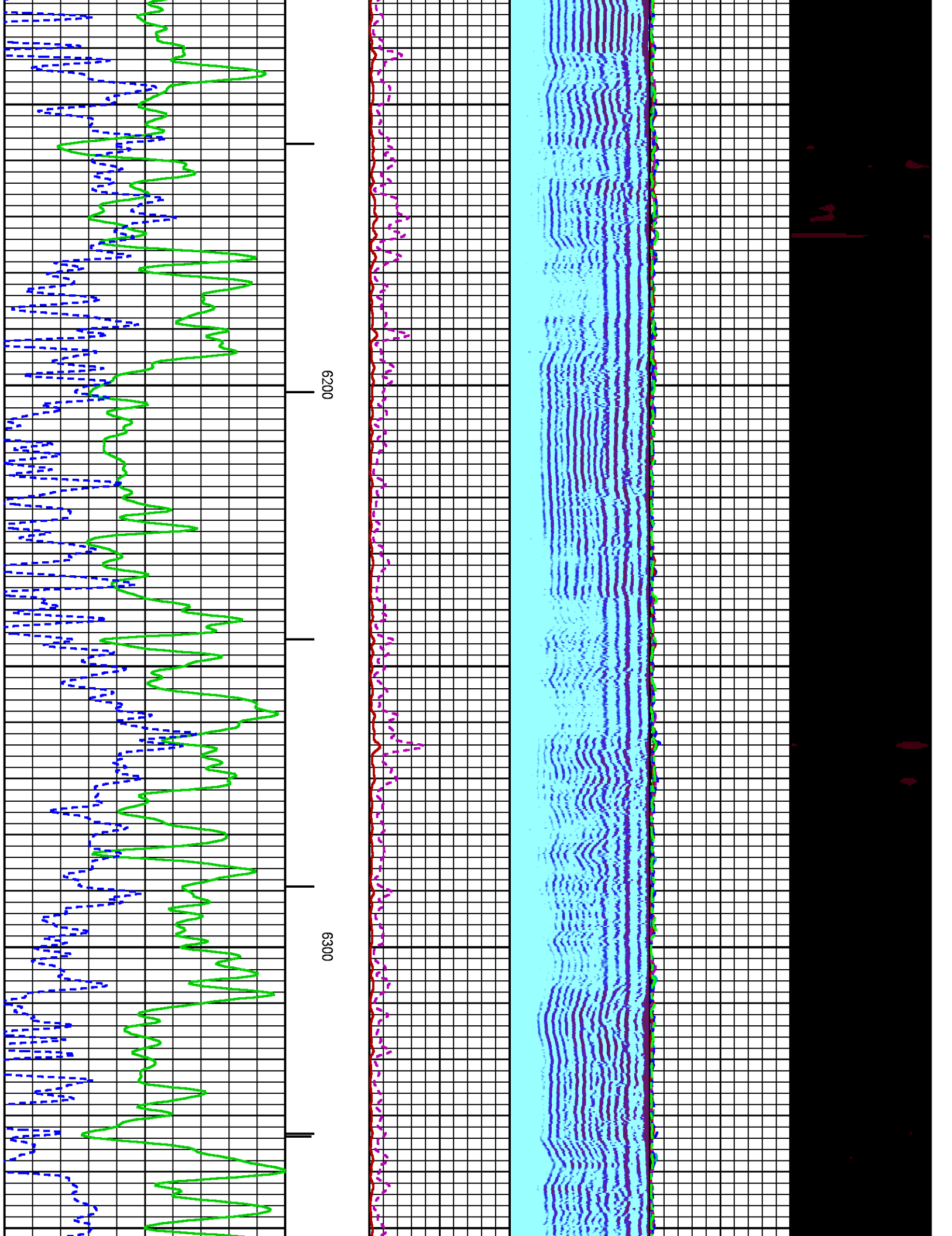


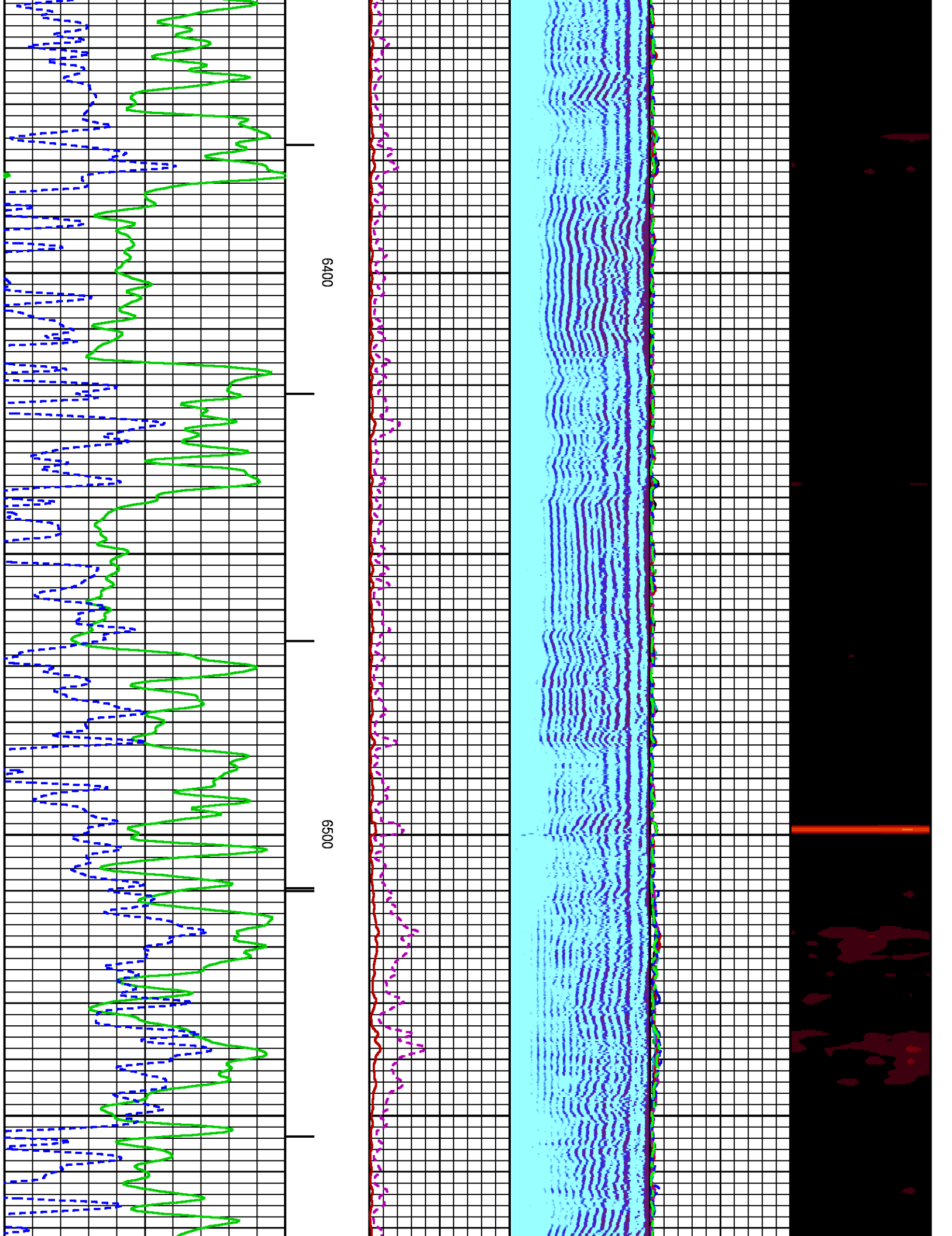


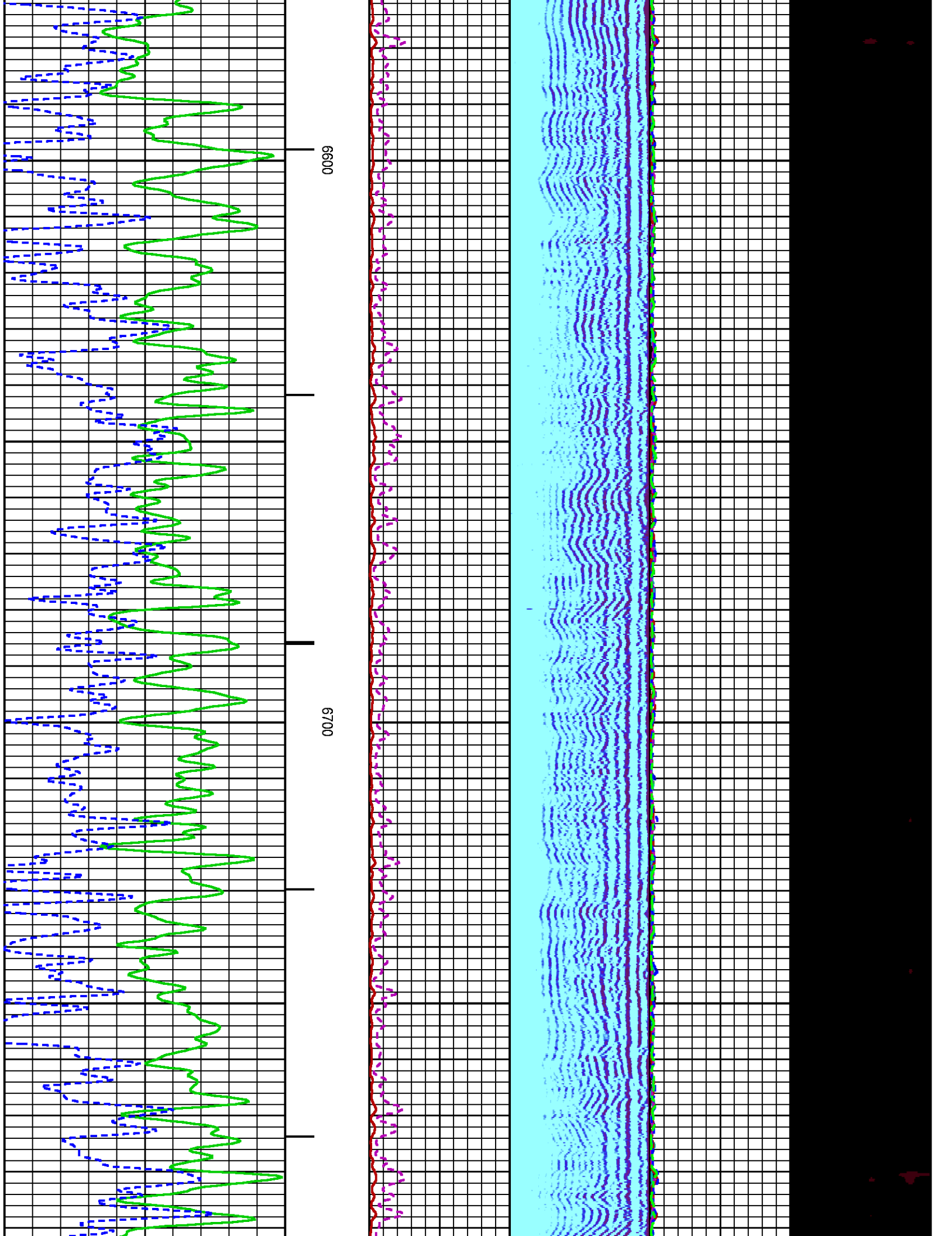


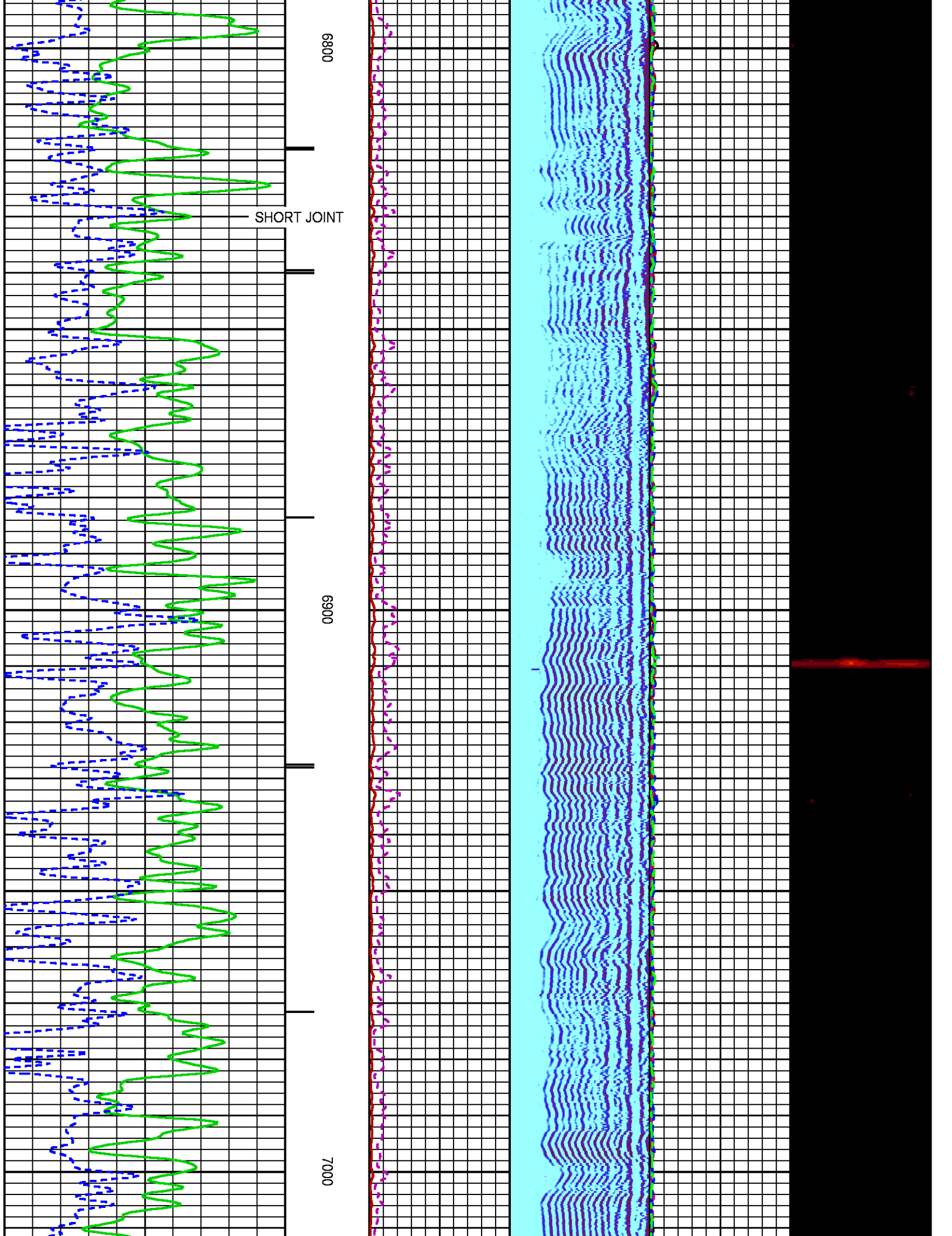


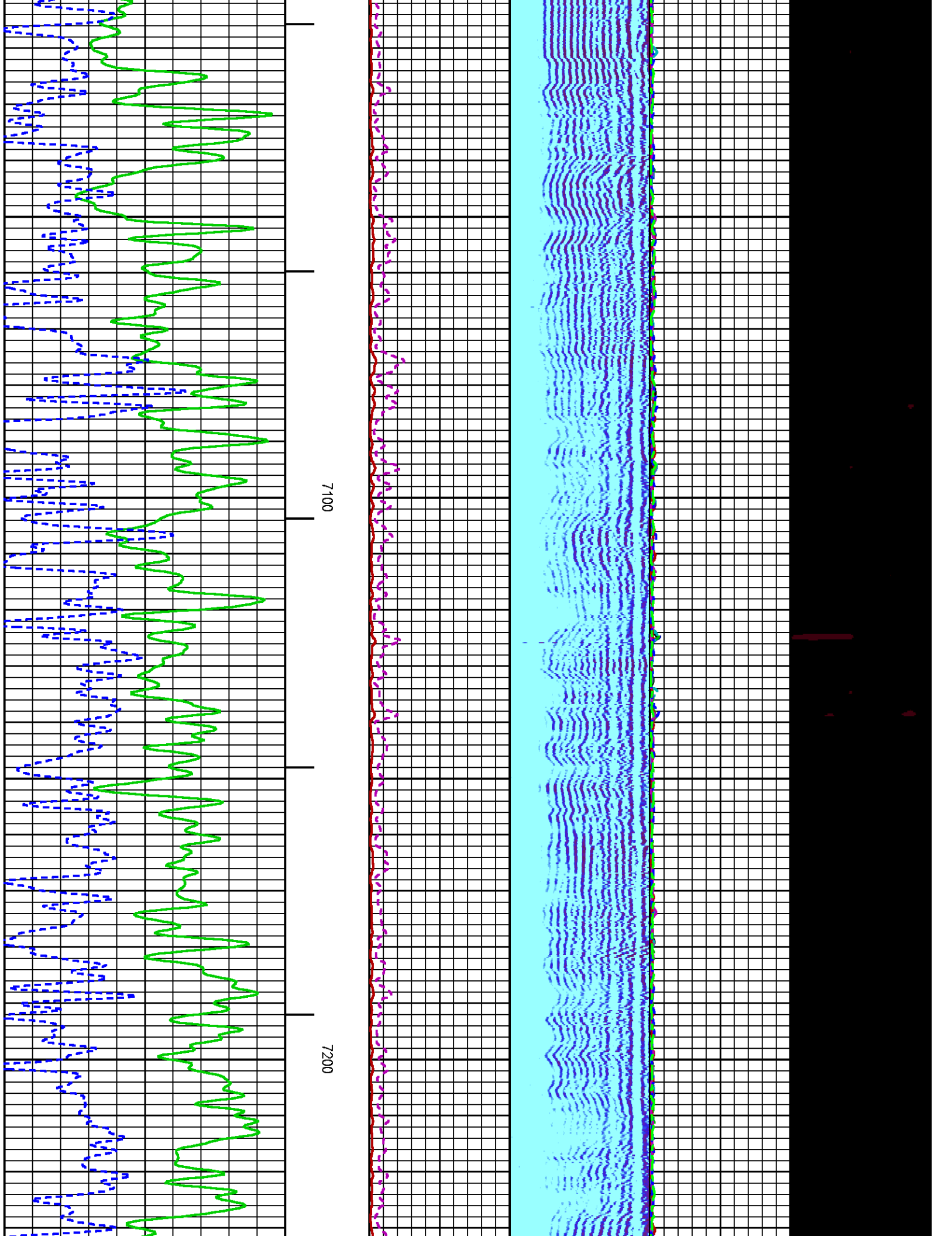


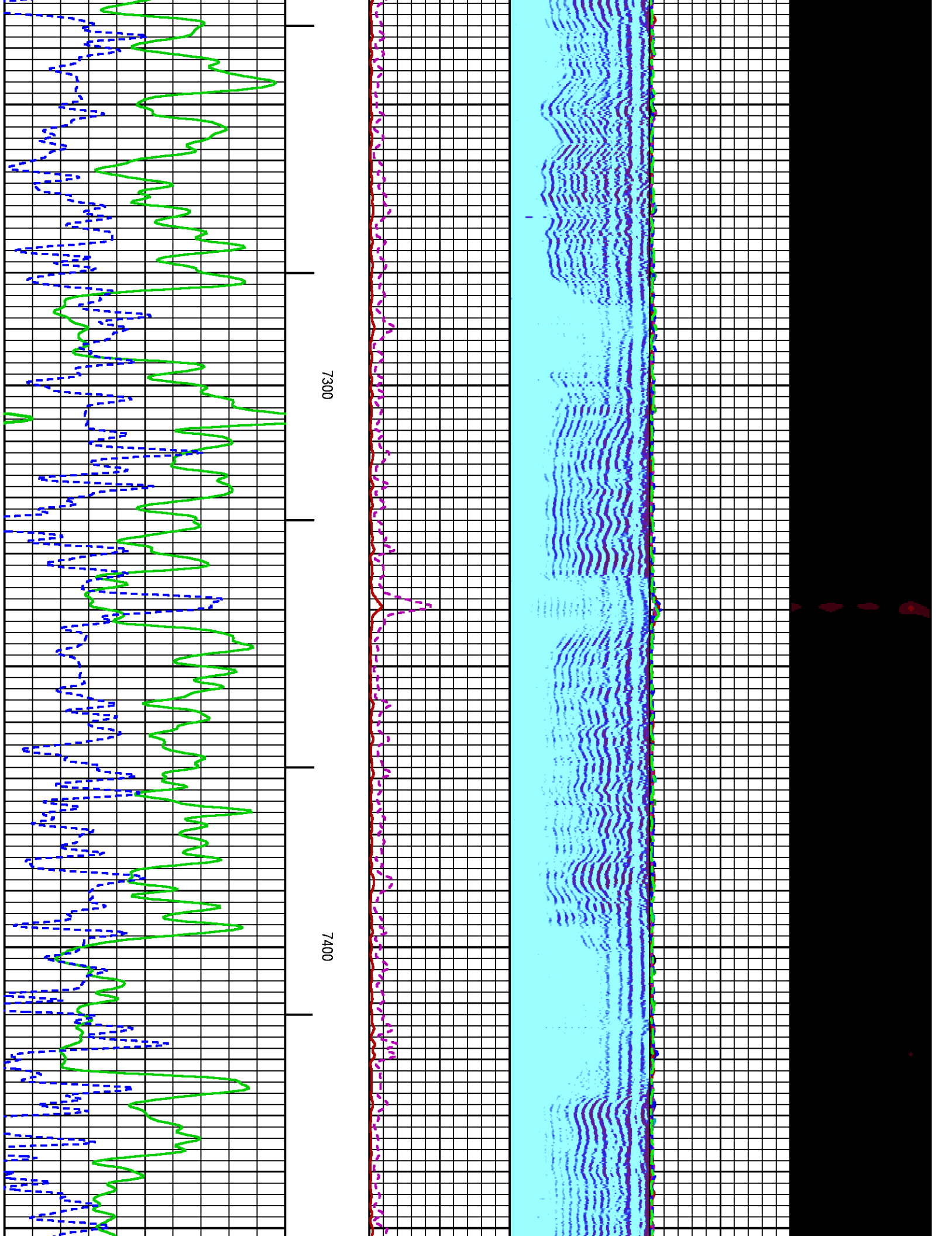


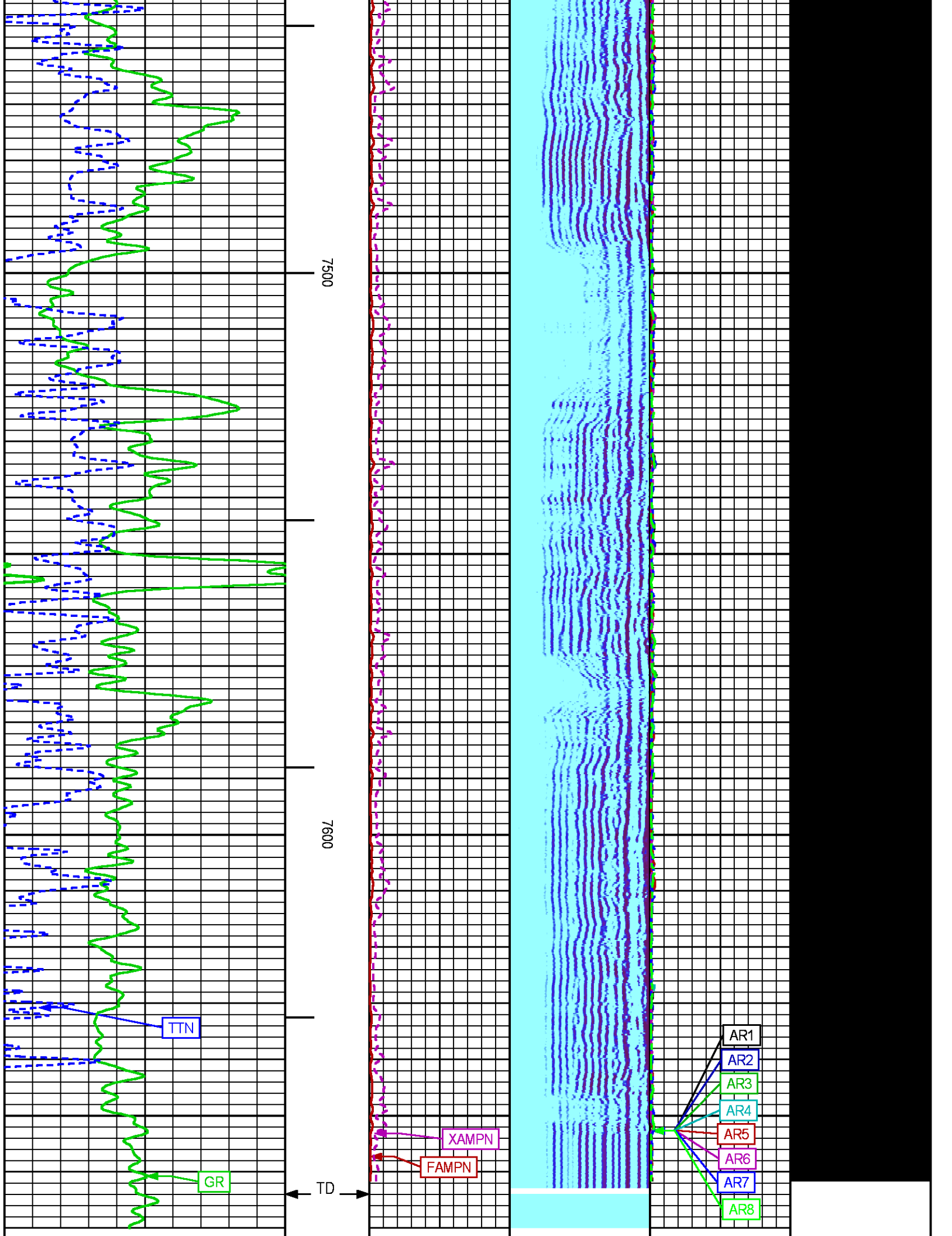


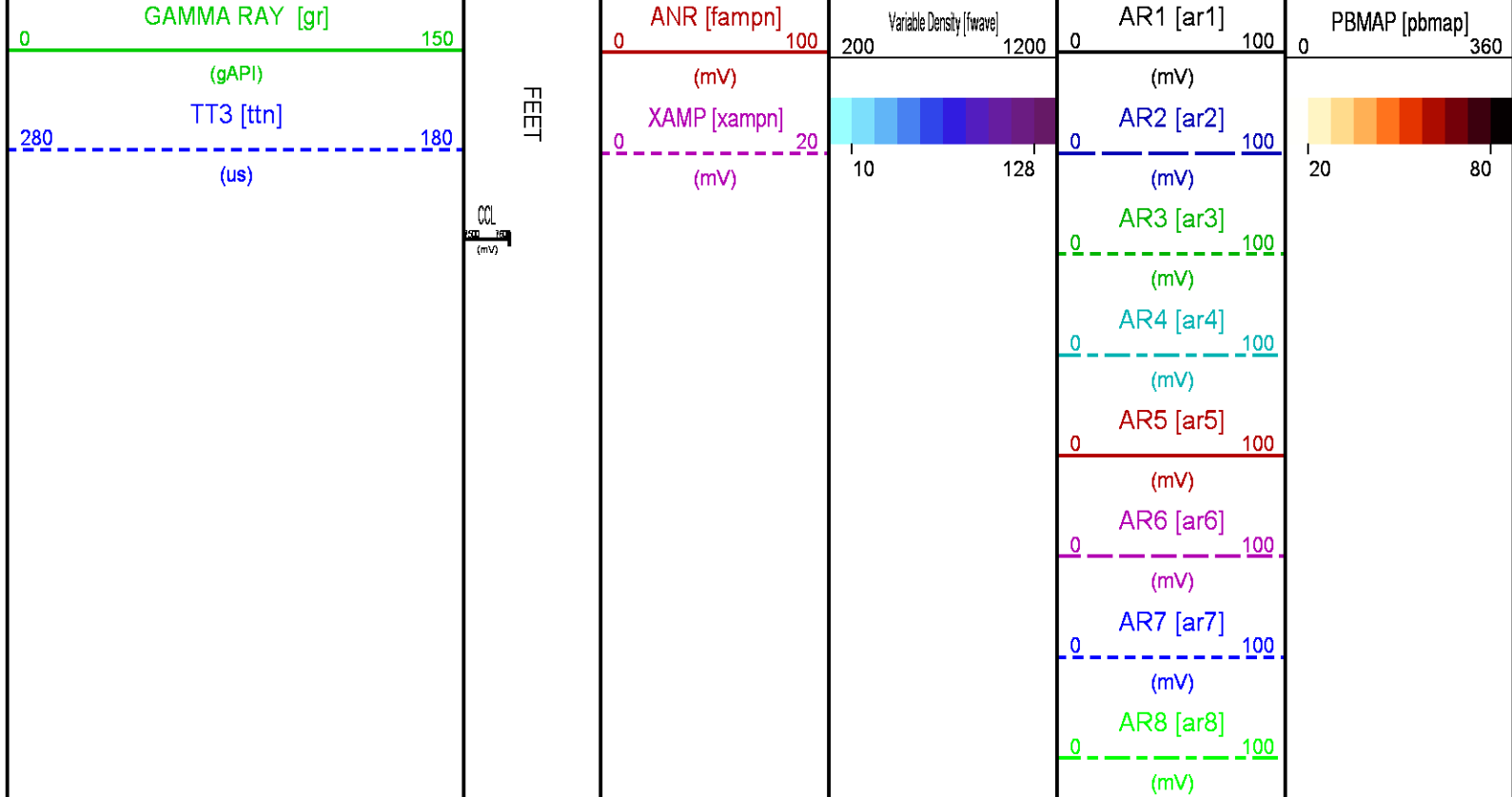












REPEAT PRESENTATION 0 PSI

ECLIPS 6.2i ECLIPS General Release Rel 6.2i Wed Jun 12 12:21:40 CDT 2013
Updates: 1 Patches: 6

Plotted: Wed Jul 22 11:00:33 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH097904/n012g01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 7419.750 ft BOTTOM DEPTH: 7680.500 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*)	176	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*)	-67	us	"	"
	TOOL DELAY (str2*)	-67	us	"	"
	TOOL DELAY (str3*)	-67	us	"	"
	TOOL DELAY (str4*)	-67	us	"	"
	TOOL DELAY (str5*)	-67	us	"	"
	TOOL DELAY (str6*)	-67	us	"	"
	TOOL DELAY (str7*)	-67	us	"	"
	TOOL DELAY (str8*)	-67	us	"	"
BASELINE NOISE (NEAR)	TOOL DELAY (strn*)	-67	us	"	"
	NOISE WINDOW START	125	us	"	"
	NOISE WINDOW LENGTH	25	us	"	"

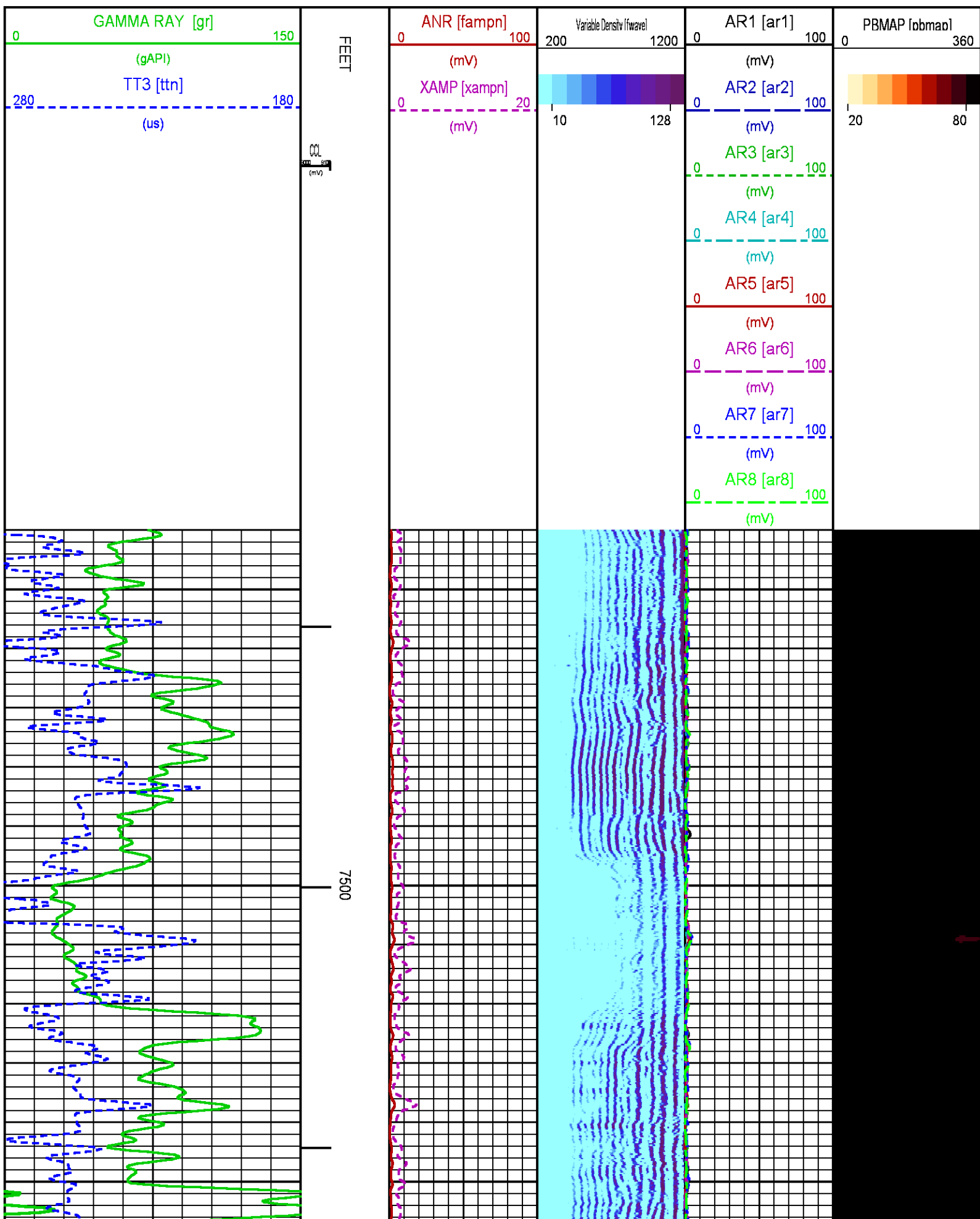
PERCENT BOND CEMENT MAP					
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
RAL FREE PIPE AMPLITUDE	FREE AMP REC 1	80	mV	TOP	BOTTOM
	FREE AMP REC 2	80	mV	"	"
	FREE AMP REC 3	80	mV	"	"
	FREE AMP REC 4	80	mV	"	"
	FREE AMP REC 5	80	mV	"	"
	FREE AMP REC 6	80	mV	"	"
	FREE AMP REC 7	80	mV	"	"
	FREE 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	"	"

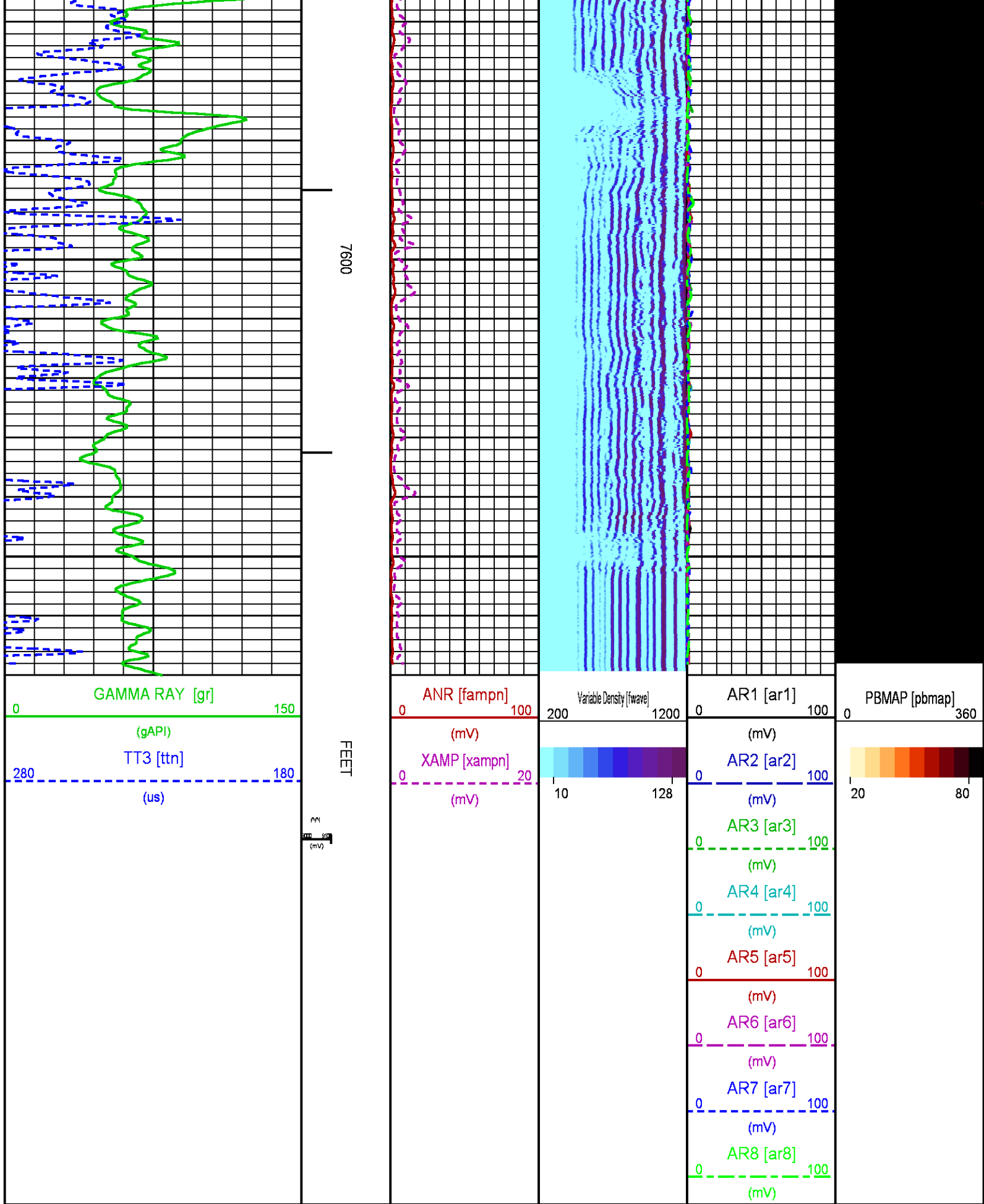
CURVE DESCRIPTION REPORT		
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:AR1	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R1
F1:AR2	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R2
F1:AR3	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R3
F1:AR4	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R4
F1:AR5	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R5
F1:AR6	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R6
F1:AR7	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R7
F1:AR8	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE T-R8
F1:CCL	Jul 22 08:57:07 2015	CASING COLLAR LOCATOR
F1:FAMPN	Jul 22 08:57:07 2015	FIXED GATE AMPLITUDE NEAR RECEIVER
F1:FWAVE	Jul 22 08:57:07 2015	FAR WAVE FORM
F1:GR	Jul 22 08:57:07 2015	GAMMA RAY
F1:PBMAP	Jul 22 08:57:07 2015	PERCENT BOND CEMENT MAP
F1:TTN	Jul 22 08:57:07 2015	TRAVELTIME FROM NEAR TRANSMITTER-RECEIVER
F1:XAMPN	Jul 22 08:57:07 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/CH097904/14E_CBL_REPEAT.fvpdf [5"/100' Scale]
Plot Interval	: 7440 - 7670 Feet
Data File 1	: F1 : HL6670:/dat1a/CH097904/14E_CBL_REPEAT.xtf
Created On	: Jul 22 08:57:07 2015
Company	: LARAMIE ENERGY

Well : GUNDERSON 29-14E
Field : VEGA
File Interval : 7408.5 - 7680.5 Feet
OCT : n012g





INSTRUMENT CONFIGURATION

Source File: /dat1a/CH097904/CBL-tdg

CABLEHEAD

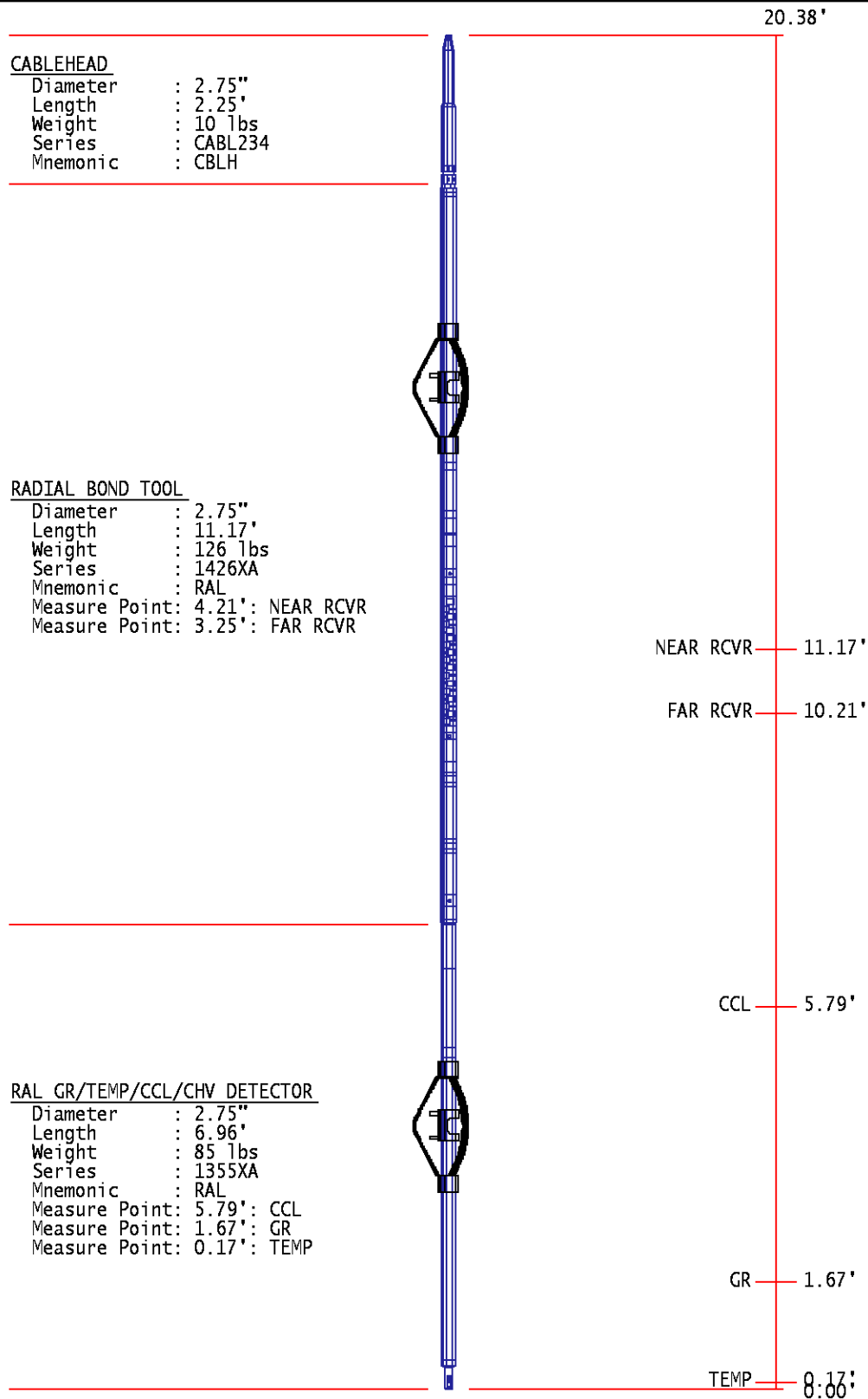
Diameter : 2.75"
Length : 2.25"
Weight : 10 lbs
Series : CABL234
Mnemonic : CBLH

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 WFTGHT: 235 lbs
MAX DIAMETER: 0'4.00"

	COMPANY		<u>LARAMIE ENERGY</u>		FILE NO:	
	WELL		<u>GUNDERSON 29-14E</u>			<u>CH097904</u>
	FIELD		<u>VEGA</u>		API NO:	
	COUNTY		<u>MESA</u>	STATE	<u>COLORADO</u>	<u>05077102300000</u>
LOCATION:			ELEVATIONS:		SEC 29 T9S R93W	
SHL: LAT 39.248804 LONG -107.787901			KB 7553 FT		PAD 29-09	
BHL: LAT 39.246113 LONG -107.786788			DF		PATTERSON 306	
SEC <u>29</u> TWP <u>9S</u> RGE <u>93W</u>			GL 7531 FT			
			DATE		<u>22-Jul-2015</u>	

