



FILE NO:	CH095182
API NO:	05045225210000
COMPANY	WPX ENERGY
WELL	YOUBERG RU 443-7
FIELD	RULISON
COUNTY	GARFIELD
STATE	COLORADO

Version	7 7S 93W RU 44-7 PAD NABORS 576	LOCATION:	SHL: 1168' FSL & 1181' FEL BHL: 1568' FSL & 737' FEL (NESE) SEC 7 TWP 7S RGE 93W	OTHER SERVICES	BOND LOG
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PERMANENT DATUM	GL	ELEVATION	7917 FT	ELEVATIONS:	KB 7943 FT DF GL 7917 FT
LOG MEASURED FROM	KB	26 FT	ABOVE P.D.		
DRILL. MEAS. FROM	KB				

DATE		07-Mar-2015	
RUN	TRIP	1	1
SERVICE ORDER	US095182		
DEPTH DRILLER	10002 FT		
DEPTH LOGGER	9986 FT		
BOTTOM LOGGED INTERVAL	9976 FT		
TOP LOGGED INTERVAL	1307 FT		
TIME STARTED	07:00		
TIME FINISHED	17:00		
OPERATOR RIG TIME	10 HOURS		
TYPE OF FLUID IN HOLE	WATER		
FLUID DENSITY	NA		
FLUID SALINITY	NA		
FLUID LEVEL	58 FT		
LOGGED CEMENT TOP	NA		
WELLHEAD PRESSURE	0 PSI		
MAXIMUM HOLE DEVIATION	NA		
NOMINAL LOGGING SPEED	10 F/MN		
MAX. RECORDED TEMP.	251 DEGF		
REFERENCE LOG	BAKER HUGHES OPEN HOLE		
REFERENCE LOG DATE	08-Feb-2015		
EQUIP. NO.	LOCATION	4271	GRAND JCT.
RECORDED BY	FLOYD RENEAU		
WITNESSED BY	TED VONFELDT		

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	26 FT	1307 FT
8.75 IN	1307 FT	10002 FT

CASING RECORD				
SIZE	WEIGHT	GRADE	FROM	TO
9.6.25 IN			26 FT	1307 FT
4.5 IN	11.6 LB/F	I-80	26 FT	10002 FT

REMARKS

RUN 1 TRIP 1: All data on this log is shifted and depth matched using the Gamma Ray curve to the Baker Hughes HDIL/ZDL/CN/GR open hole log dated 2/08/2015 at the clients request.
The amount of linear shift is 14 feet.
The depth matching process creates potential for collar lengths to vary from those recorded on other cased hole wireline units without a Gamma Ray reference.
Logged in PNC-3D mode.
BHT = 251 degF

SJ = 6598'-6621'

Thanks you for choosing Baker-Hughes.

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PCM	8250EA	Z166326	FREE
1	1	TEL/CCL	8248ED	10586851	FREE
1	1	GR	2812LA	10274382	FREE
1	1	RPM	8281EA	10273848	FREE
1	1	RPM	8283PA	10203151	FREE
1	1	RPM	8281FA	10460082	FREE
1	1	TEMP	8255XA	Z120516	FREE

MAIN SECTION PNC-3D MODE

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 46 Patches: 5

Plotted: Sun Mar 08 11:17:17 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\095182\354h02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 1289.000 ft BOTTOM DEPTH: 9973.000 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
GR	FILTER ()	medium (1)		TOP BOTTOM

RPM PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)
PNC Parameters	BOREHOLE CONTENTS	FLUID		TOP BOTTOM
	OPEN/CASED HOLE	CASED HOLE		" "
	BOREHOLE SIZE	8.50	in	" "
	CASING SIZE	4.50	in	" "
	MATRIX	SANDSTONE		" "
	CORRECTION BUFFER	11		" "

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 8 10:02:16 2015	CASING COLLAR LOCATOR
F1:GR	Mar 8 10:02:18 2015	GAMMA RAY
F1:ISS	Mar 8 10:02:18 2015	INELASTIC SHORT SPACE COUNT RATE
F1:LS	Mar 8 10:02:18 2015	LONG SPACE COUNT RATE
F1:RATO	Mar 8 10:02:20 2015	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	Mar 8 10:02:20 2015	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	Mar 8 10:02:21 2015	CORRECTED FORMATION SIGMA
F1:SS	Mar 8 10:02:21 2015	SHORT SPACE COUNT RATE

CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	25.00	ISS	12.75	RATO	12.75	SGFC	12.75
GR	22.75	LS	12.75	RICS	12.75	SS	12.75

Presentation : BHUGHES-06627:C:\dat1a\095182\443_RPM_MAIN.fvpdf [5"/100" Scale]
Plot Interval : 1290 - 9990 Feet

Data File 1 : F1 : BHUGHES-06627:C:\dat1a\095182\443_RPM_MAIN.xtf
Created On : Mar 8 10:02:16 2015
Company : WDX ENERGY

Company : WPA ENERGY
Well : YOUNBERG RU 443-7
Field : RULISON
File Interval : 12.75 - 9987 Feet
OCT : n354h

GR BACKUP

ISS [iss]

0 1E+006

(1)

GAMMA RAY [gr]

0 150

(gAPI)

FEET

CCL
(mV)

1300

1400

GR

ISS

LS [ls]

0 29000

(1)

SS [ss]

0 290000

(1)

RATO [rato]

17 0

(1)

RICS [rics]

37 7

(1)

SGFC [sgfc]

60 0

(1)

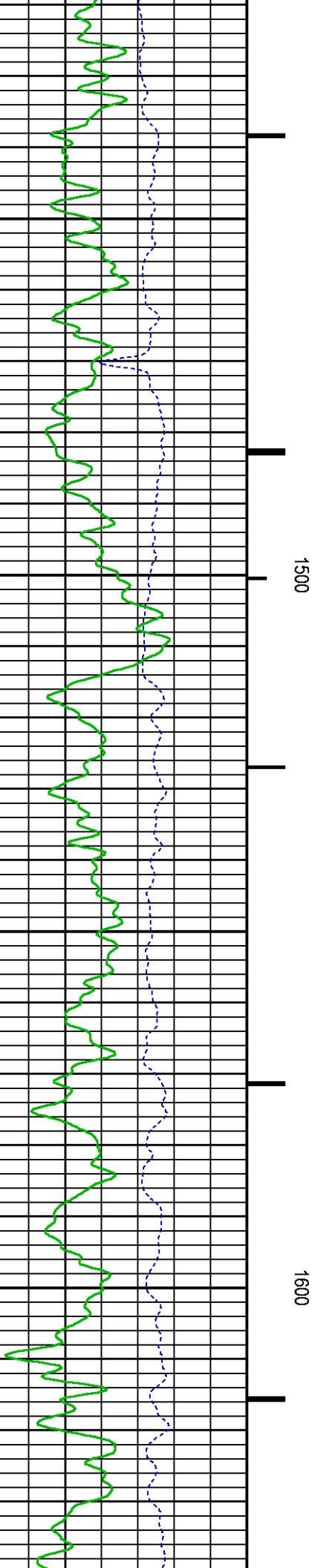
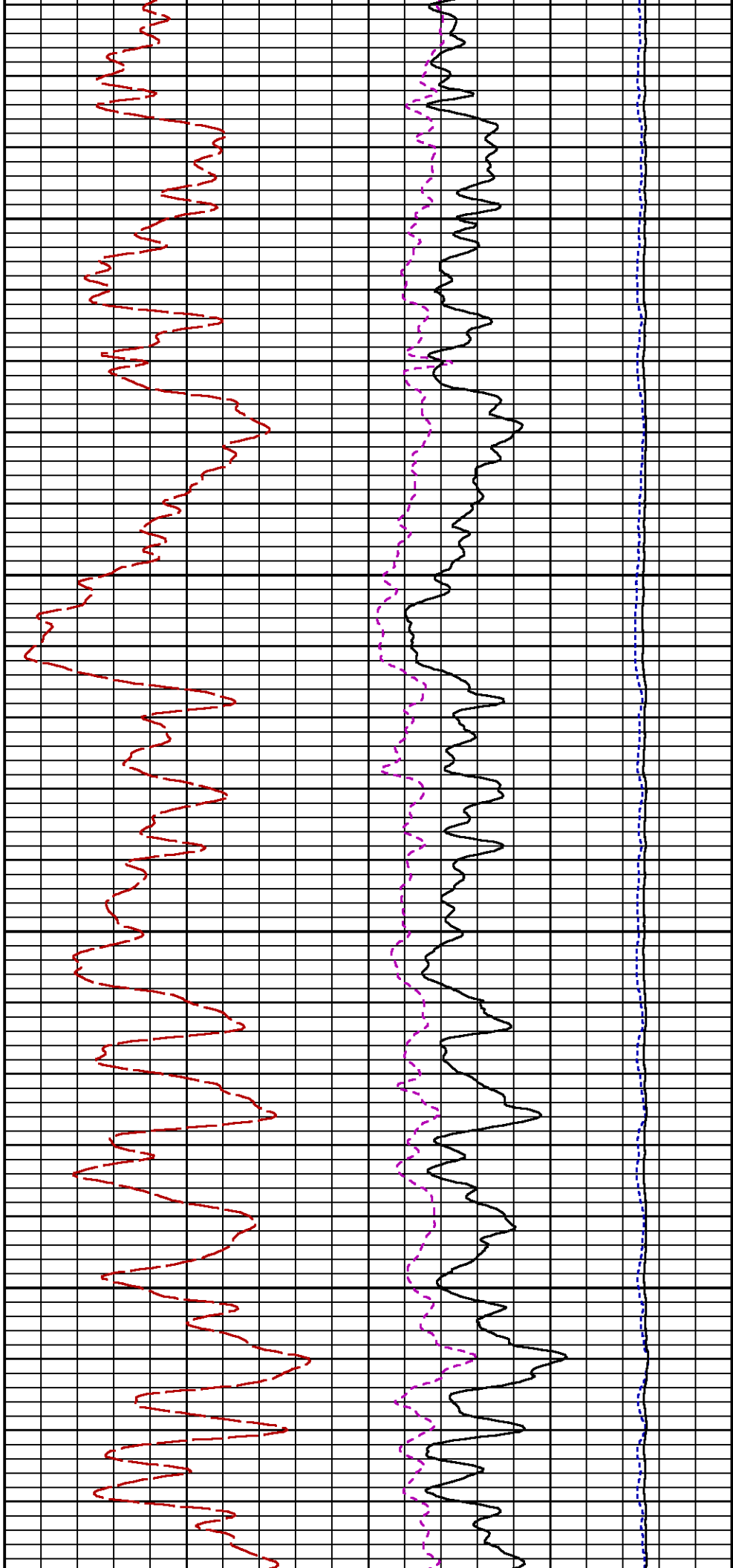
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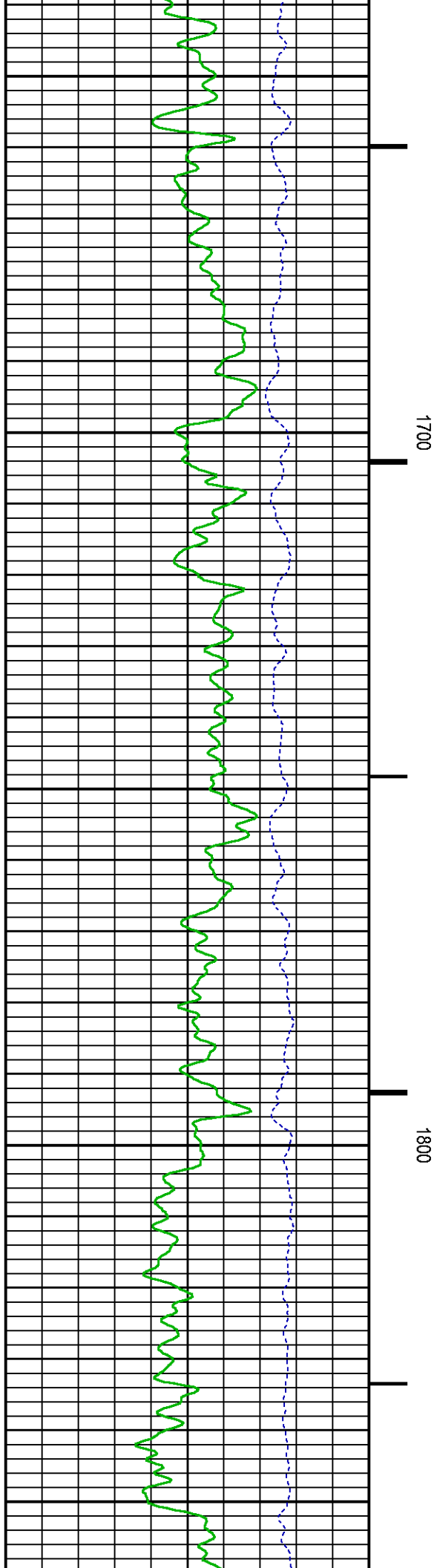
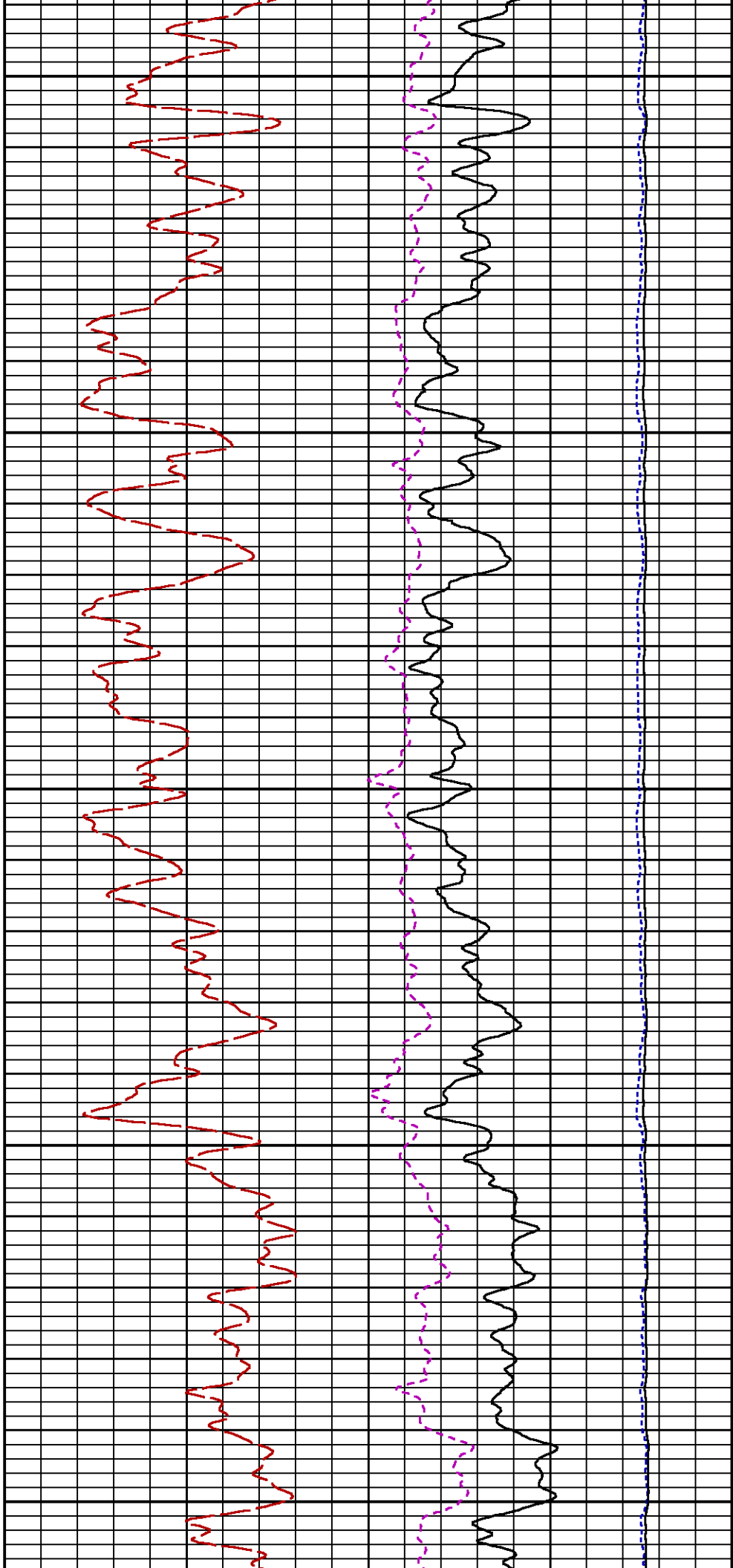
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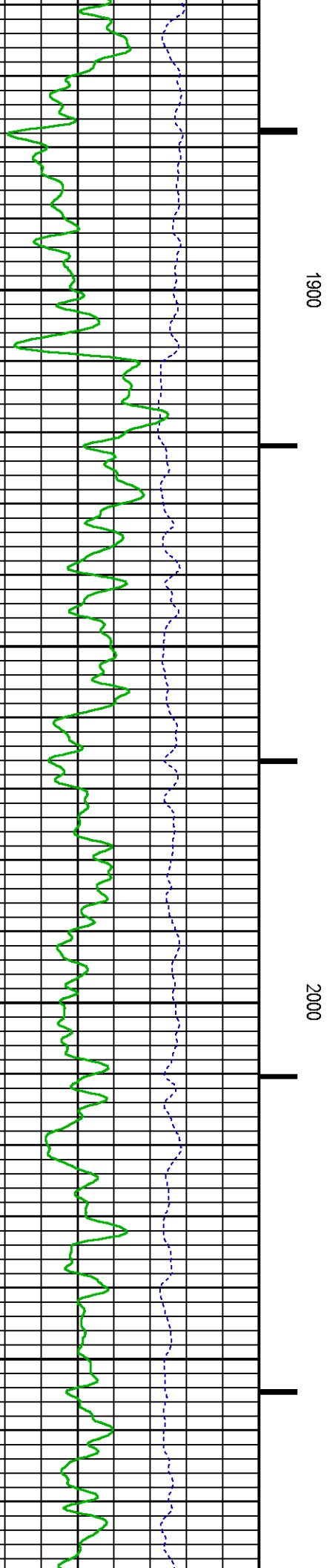
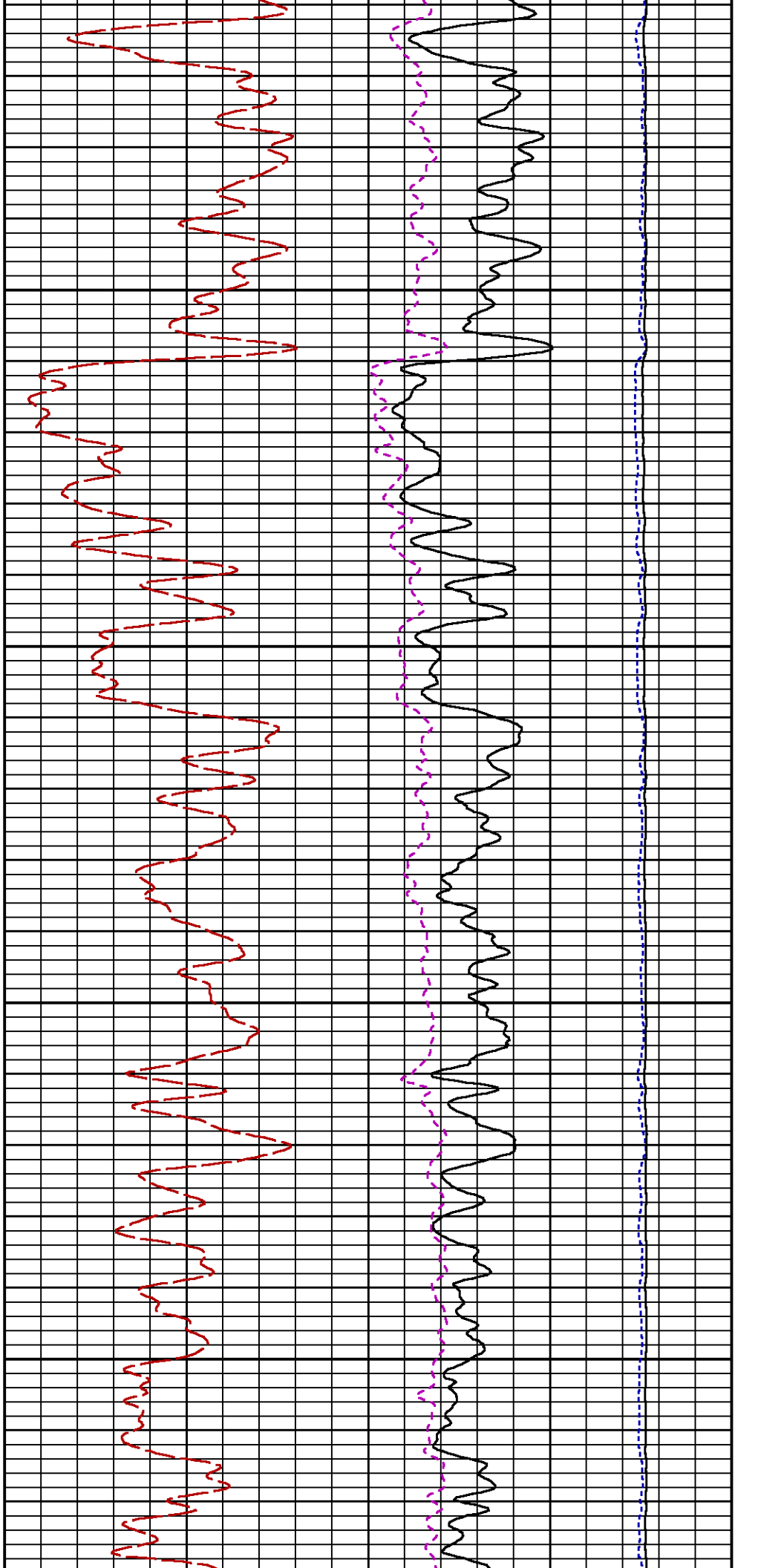
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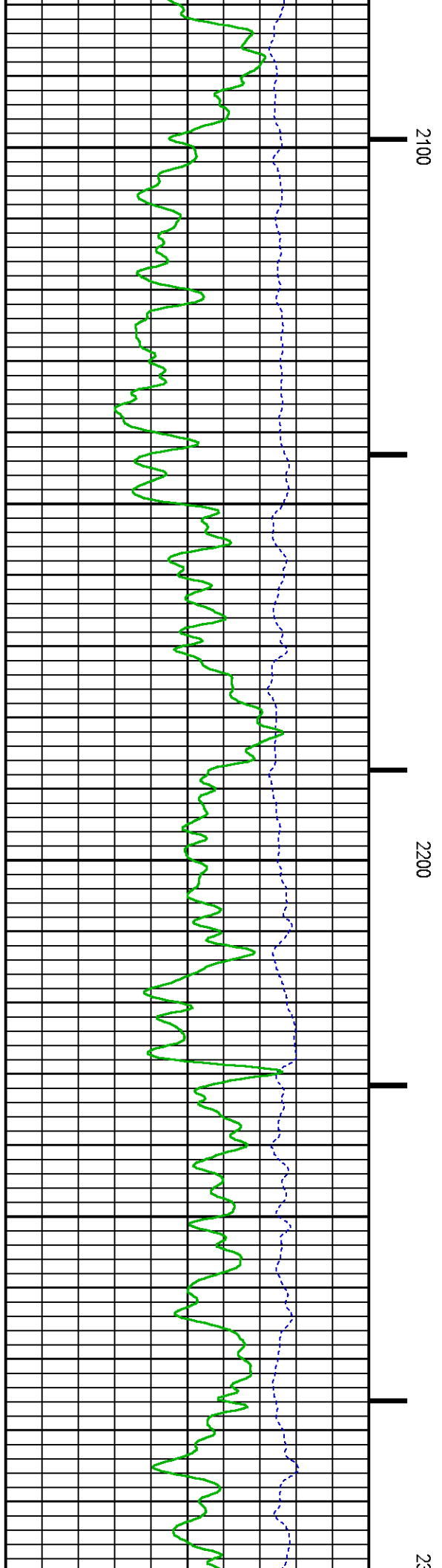
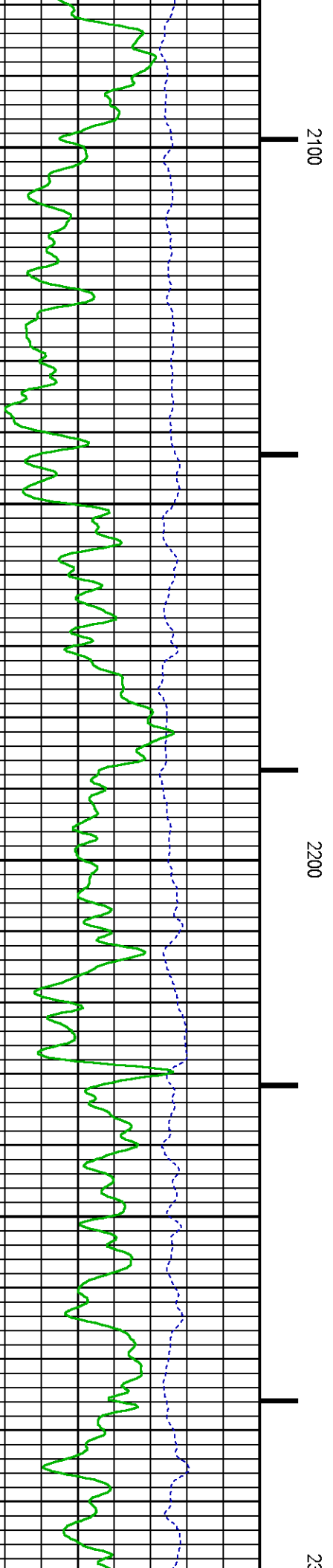
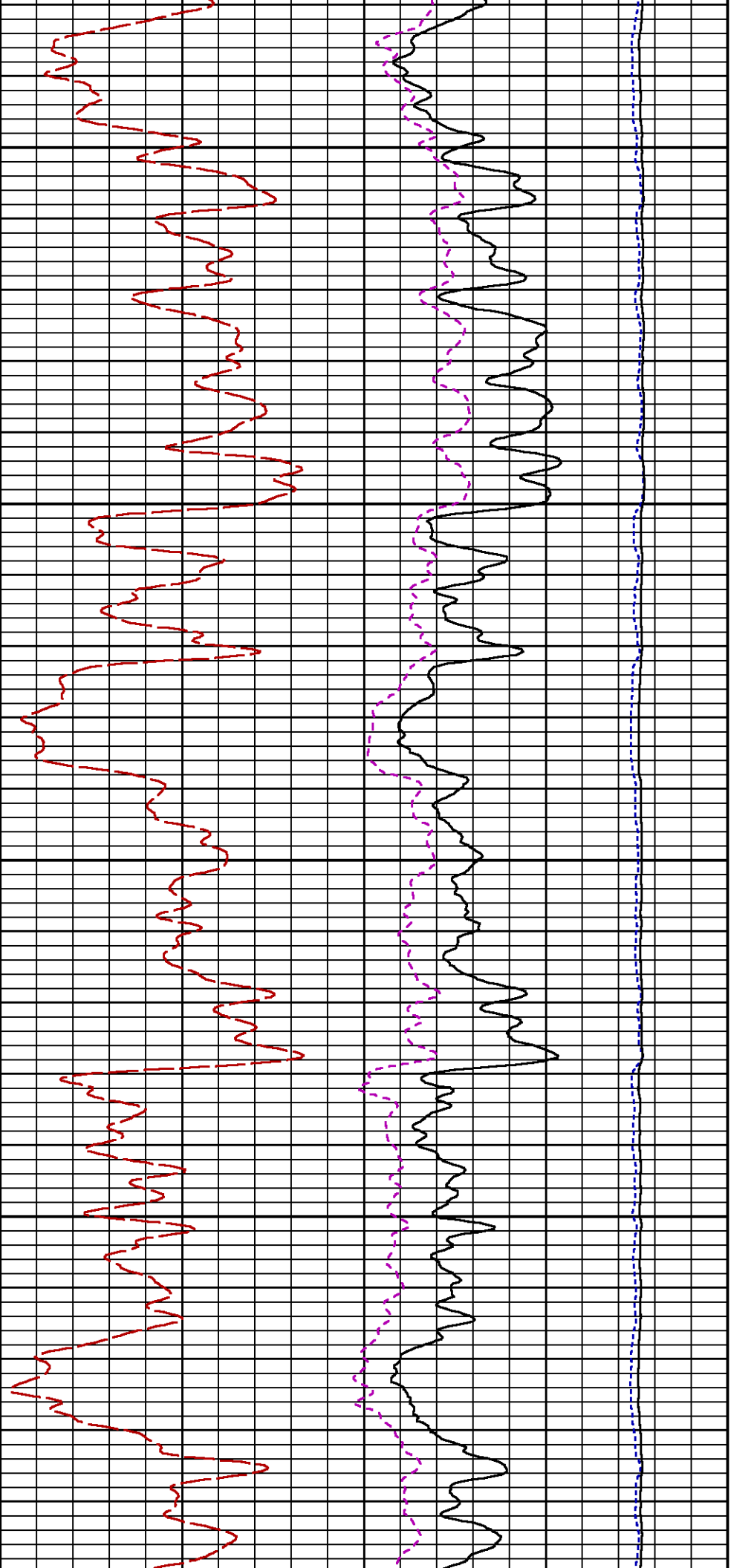
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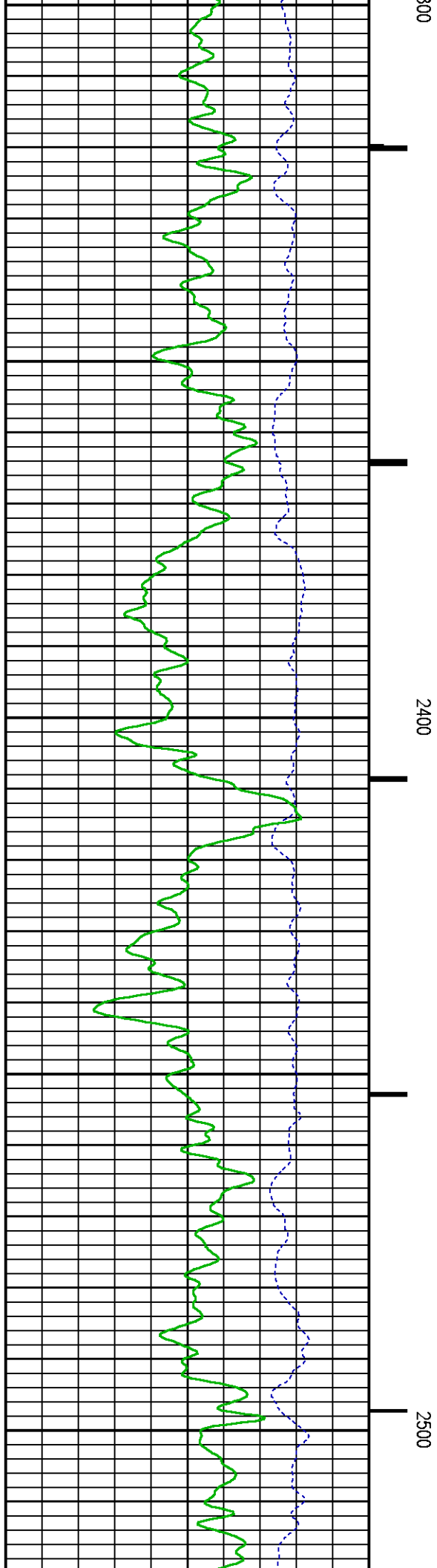
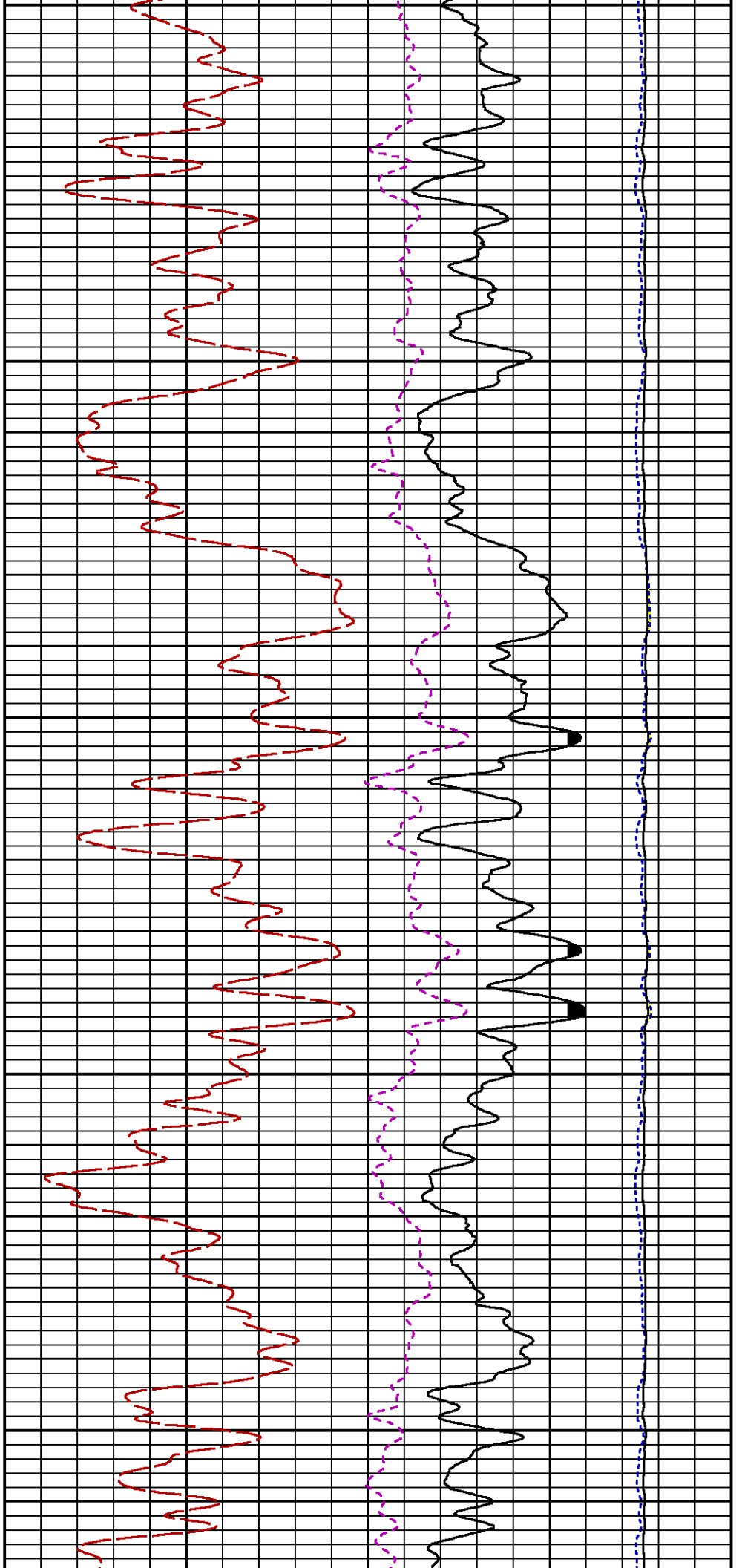
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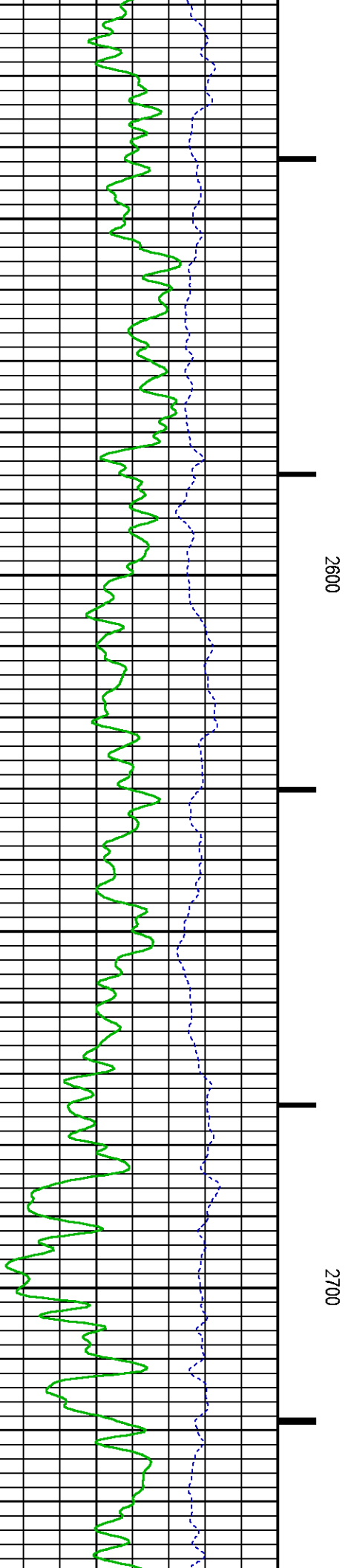
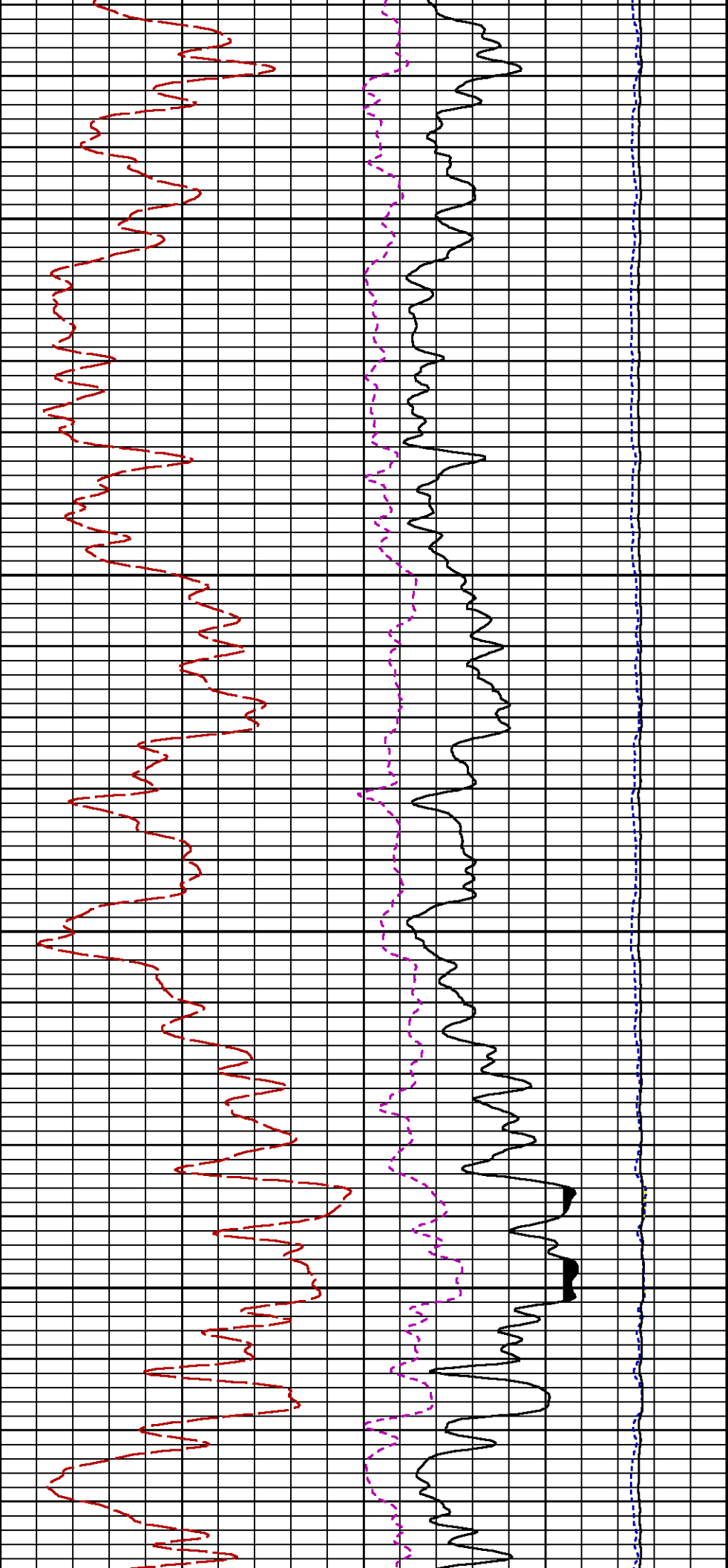


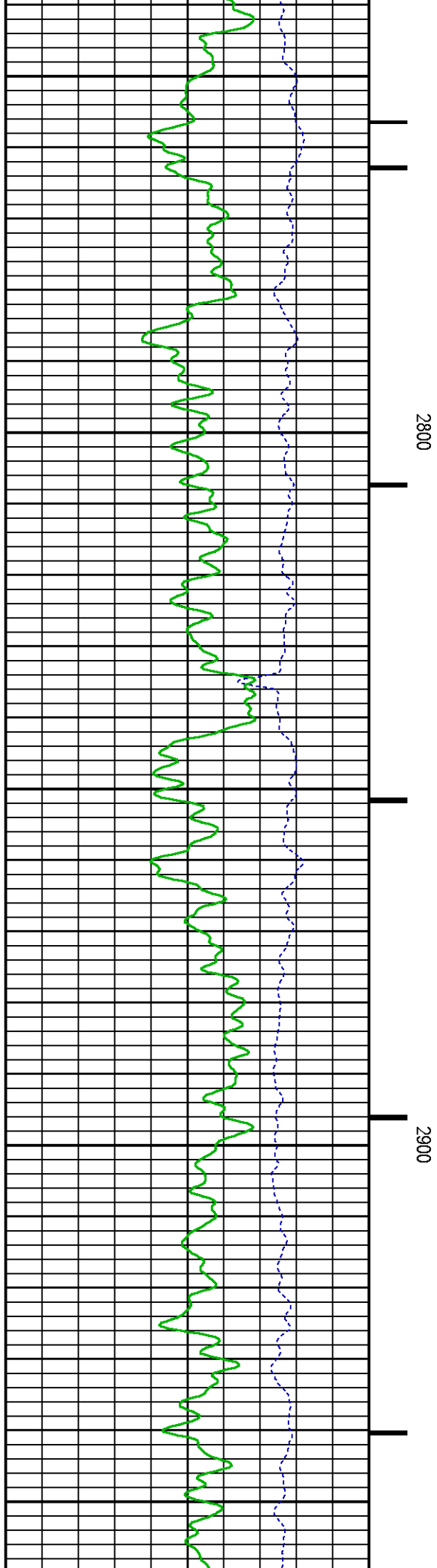
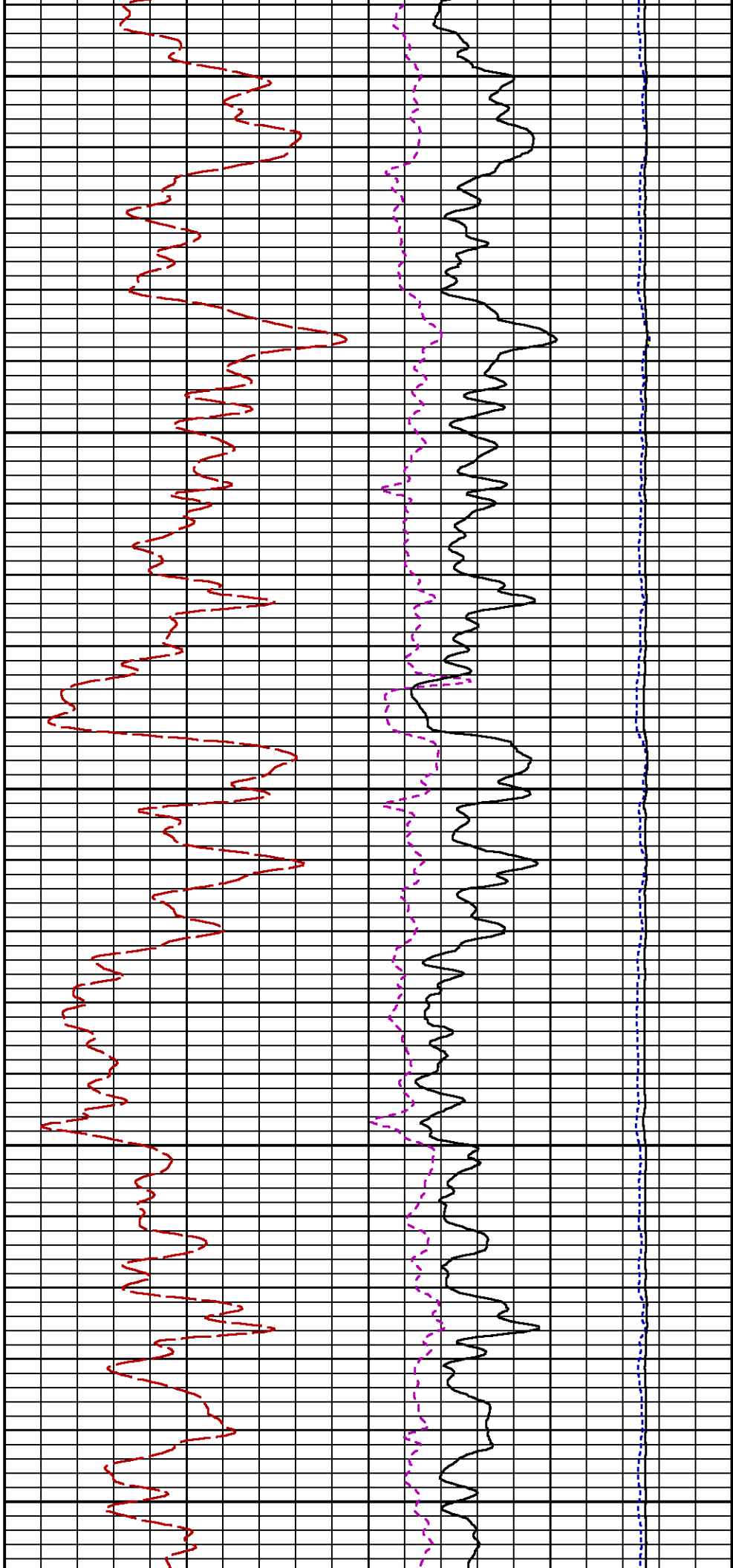


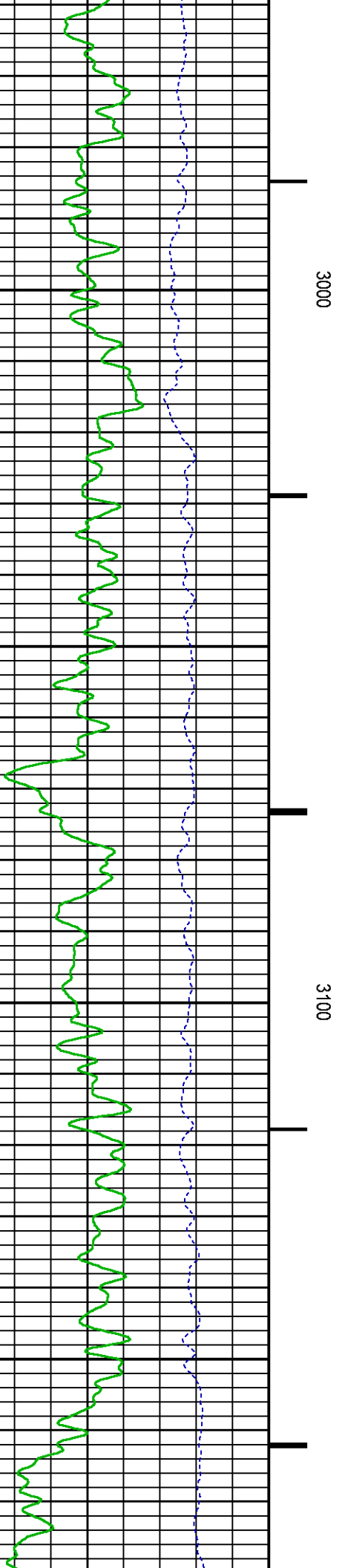
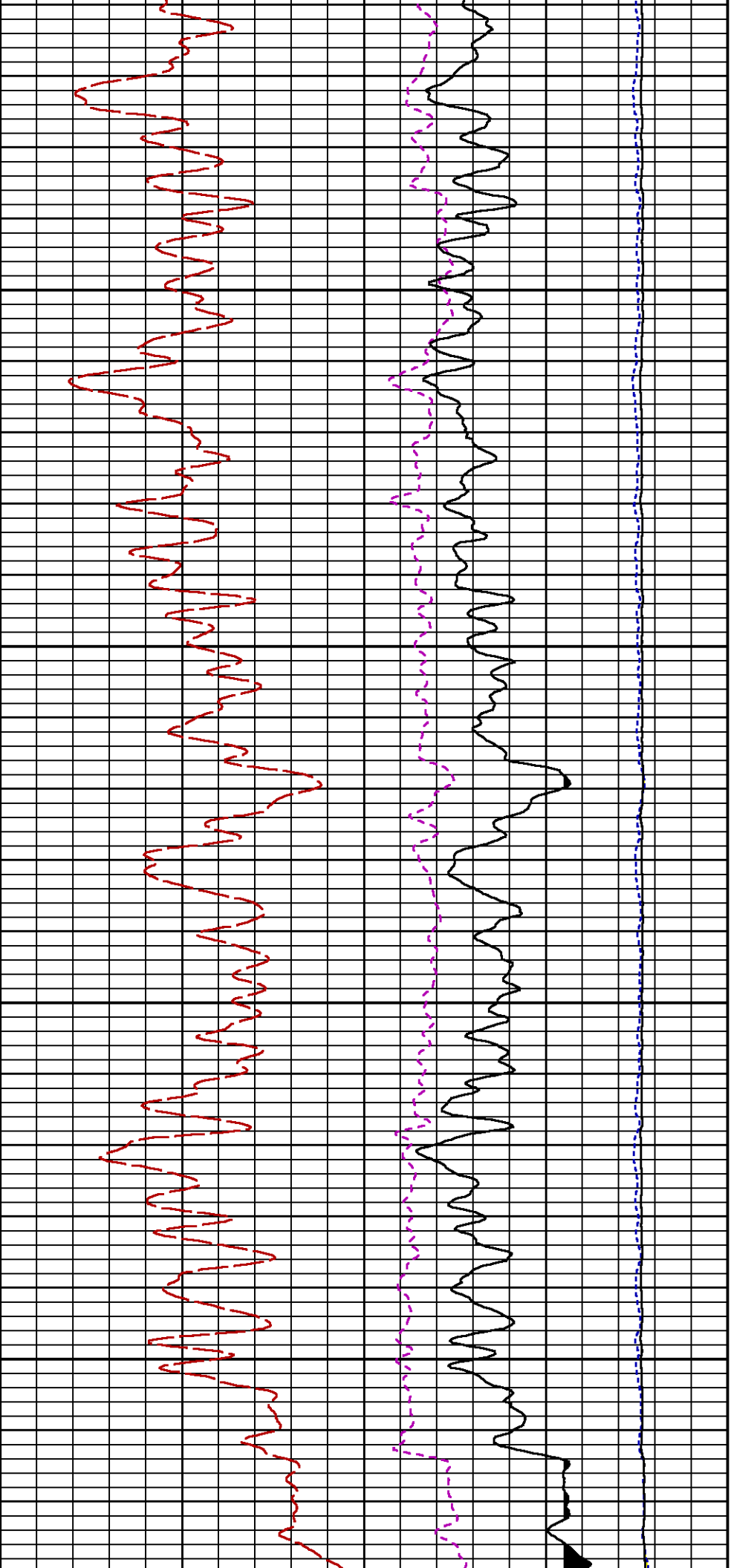


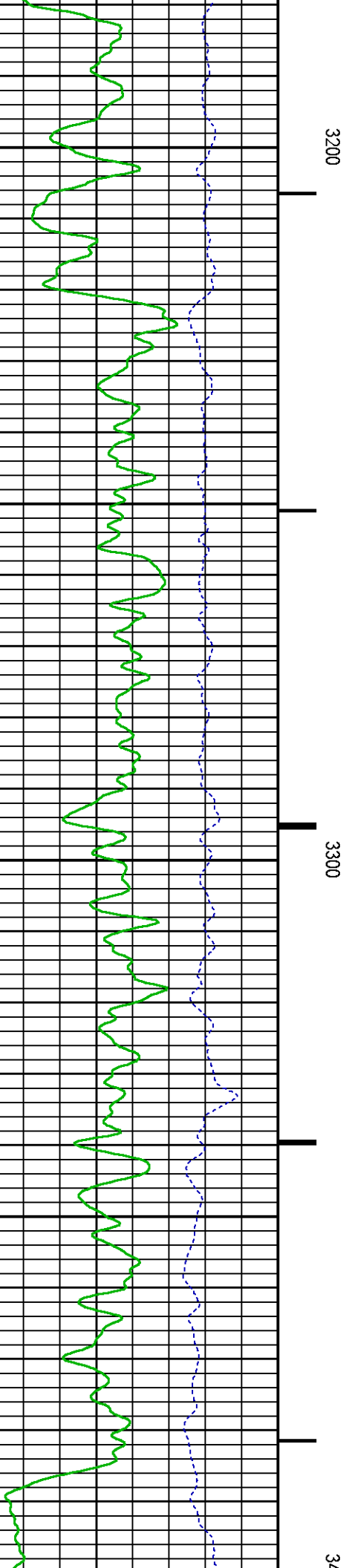
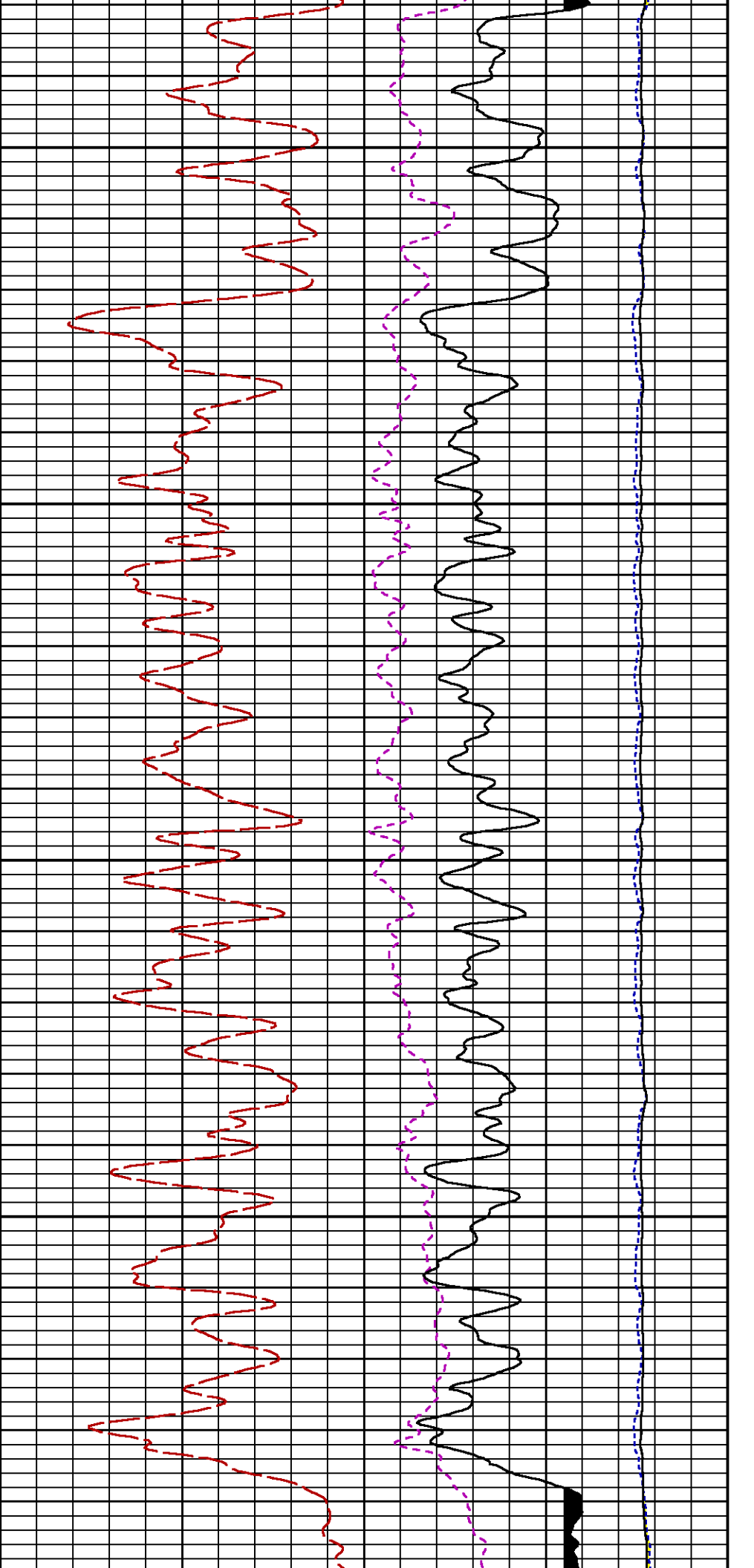


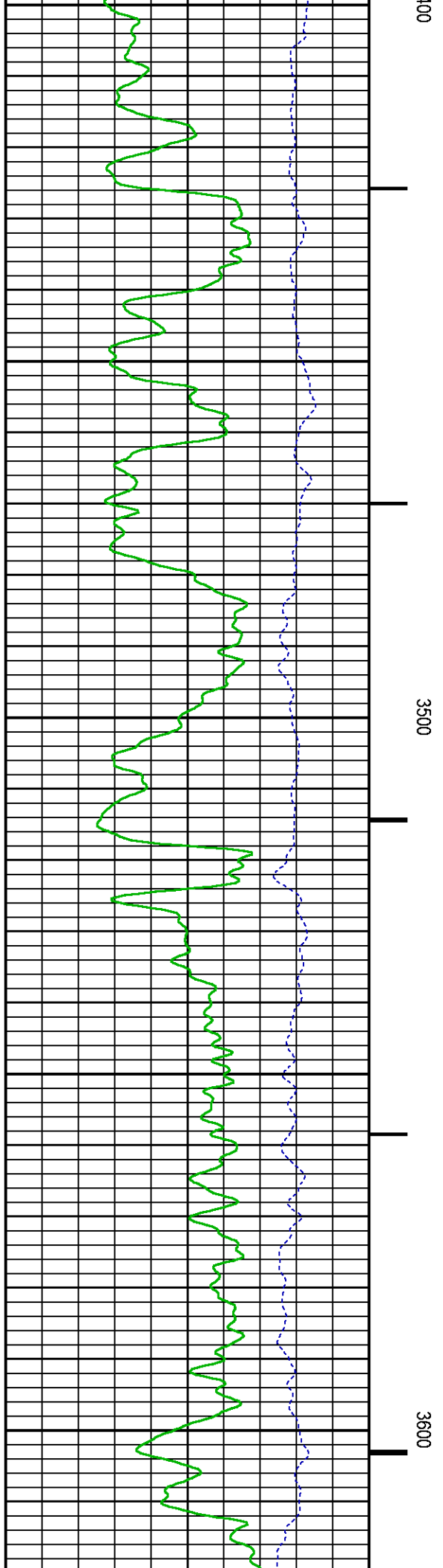
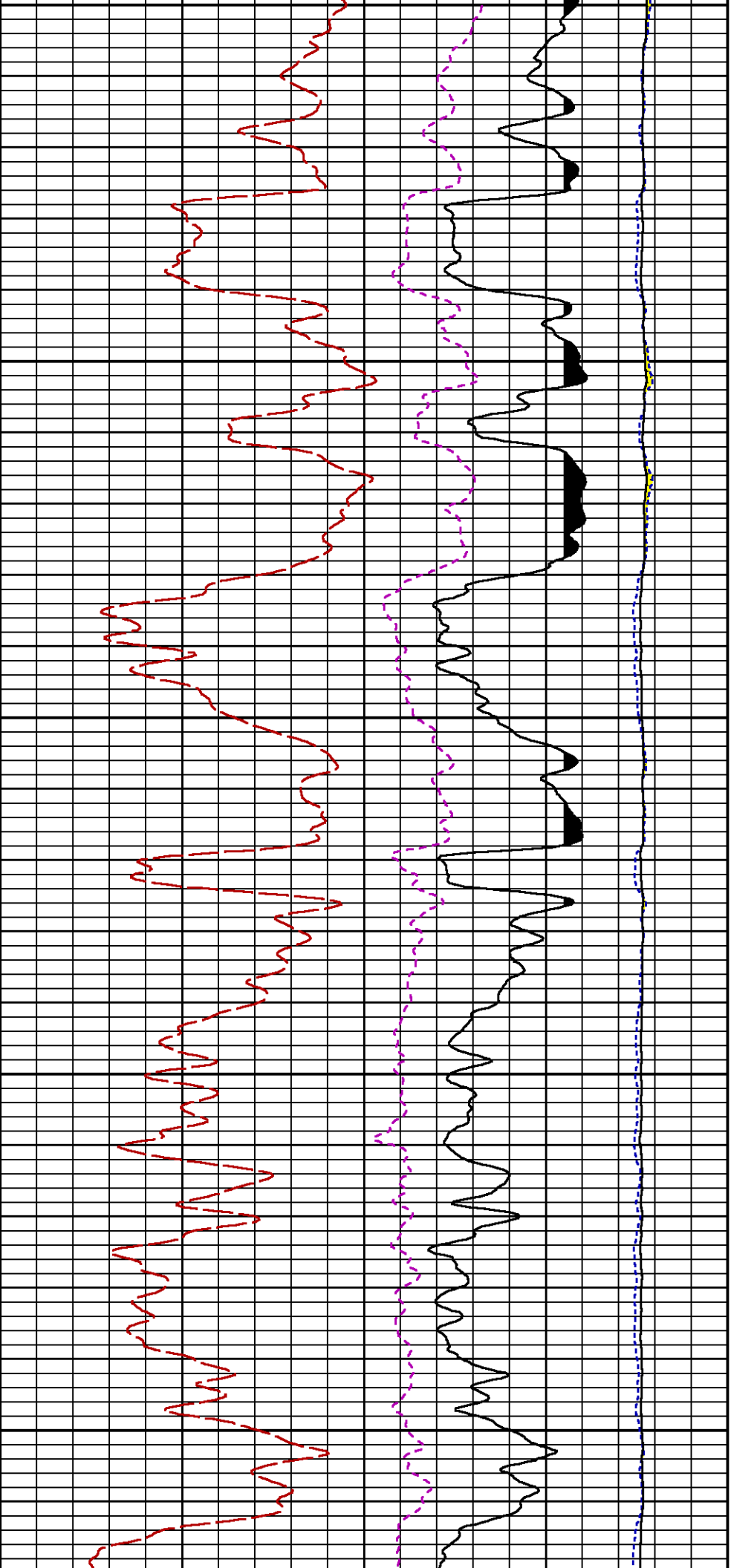


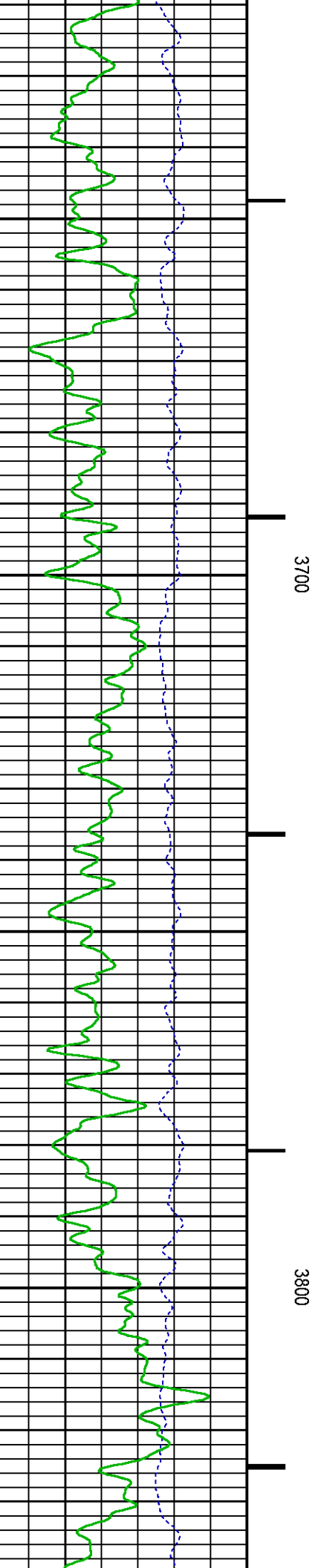
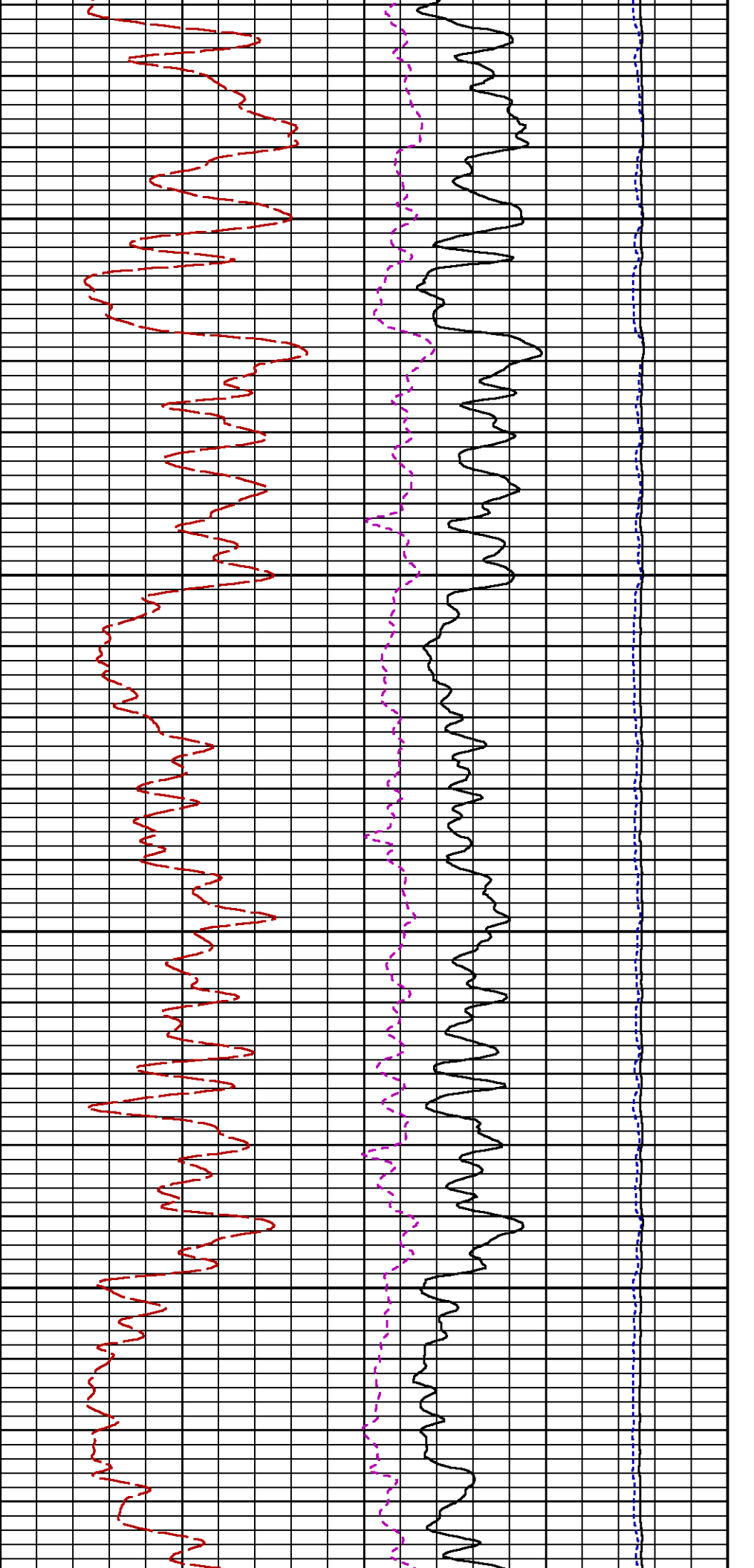


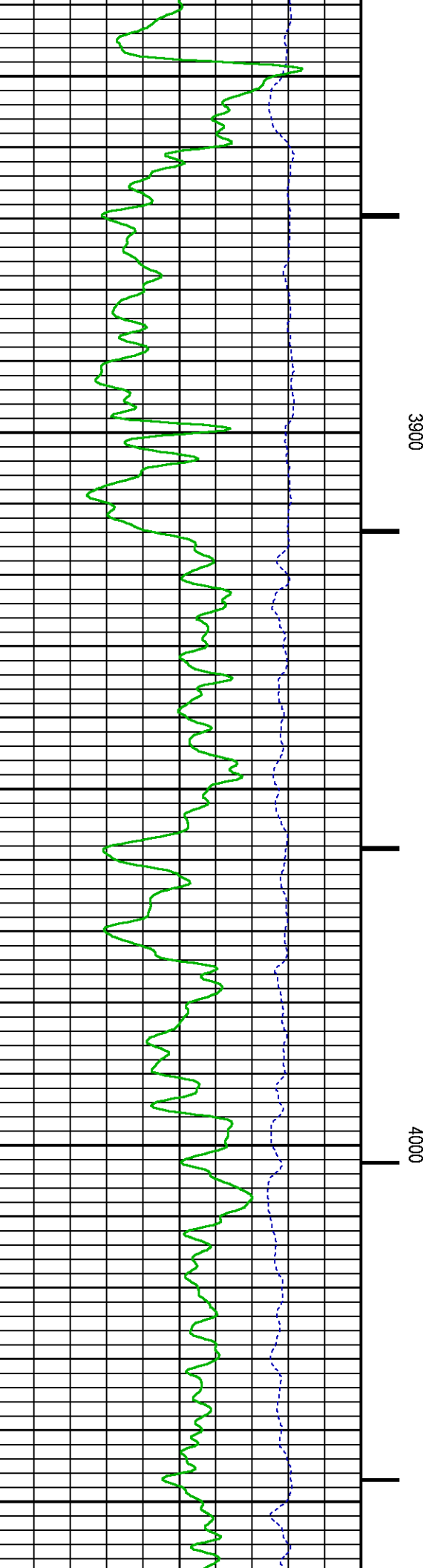
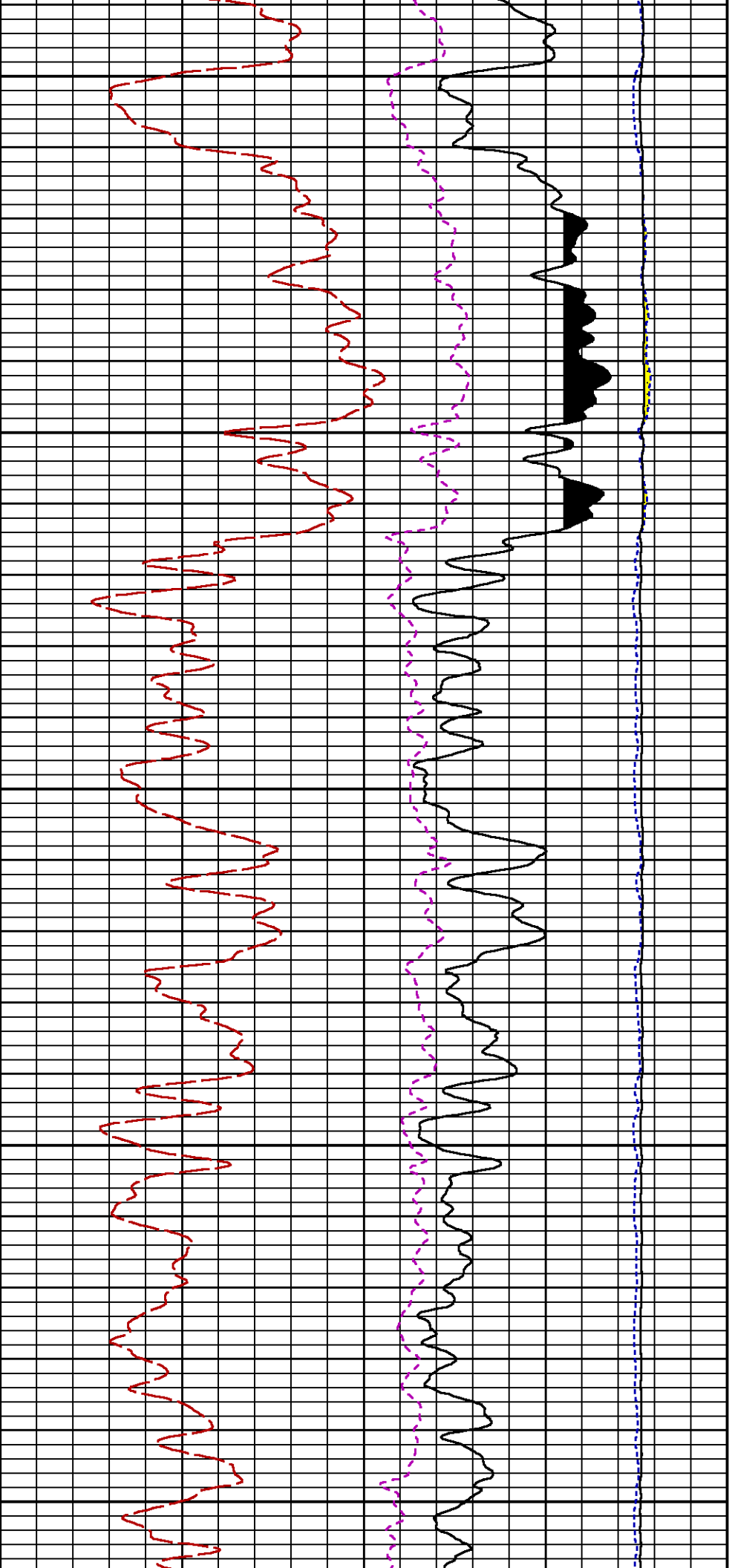


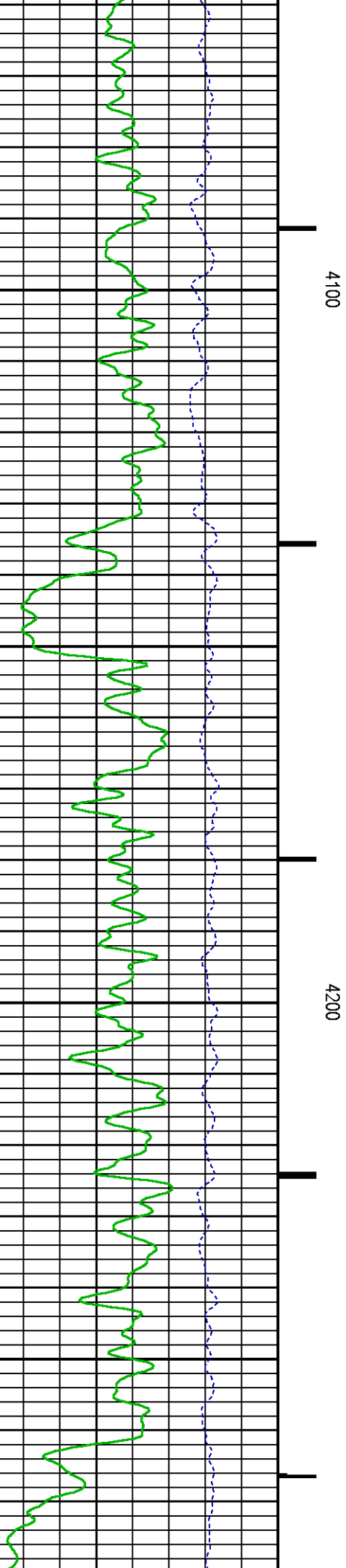
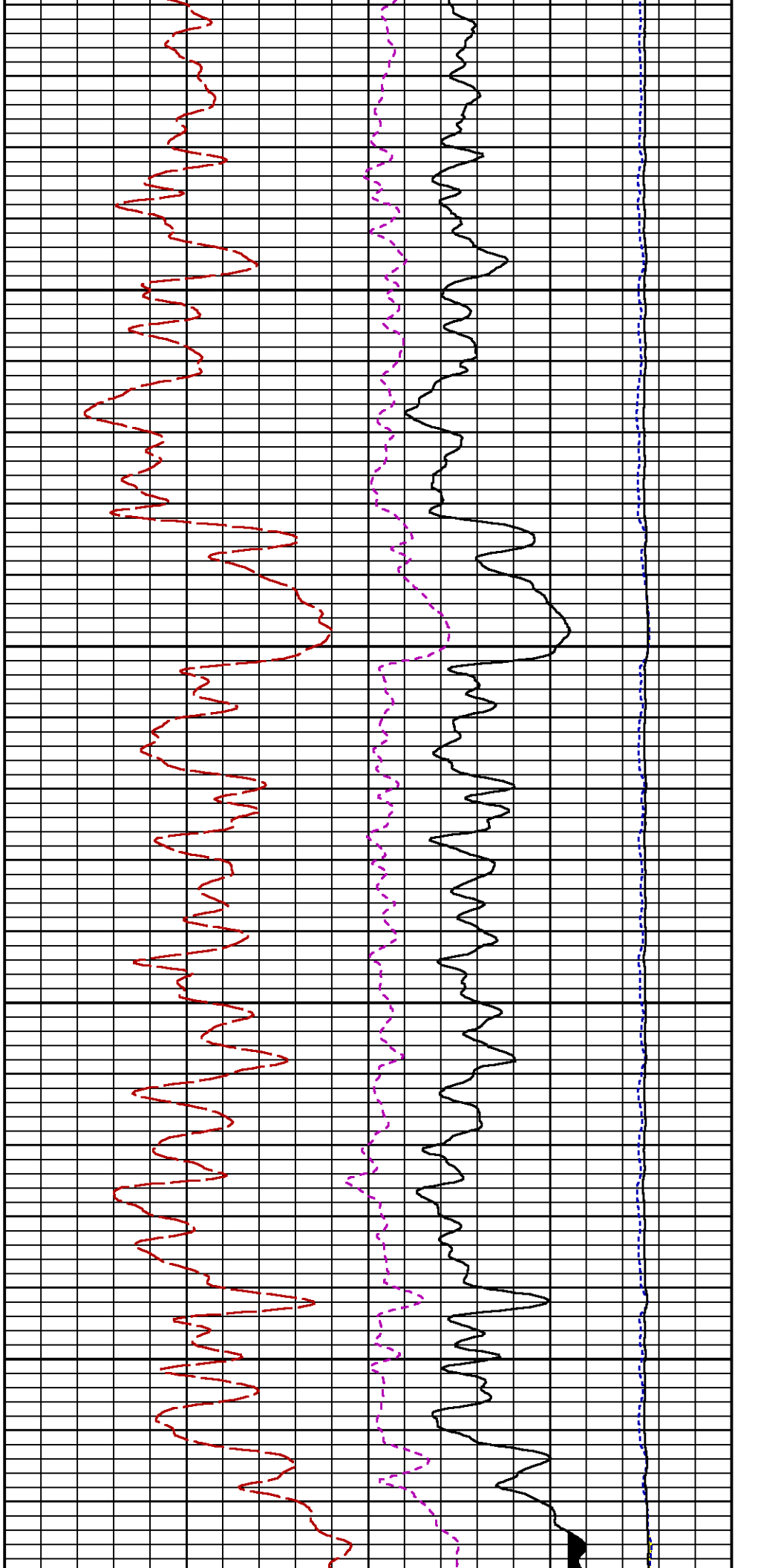


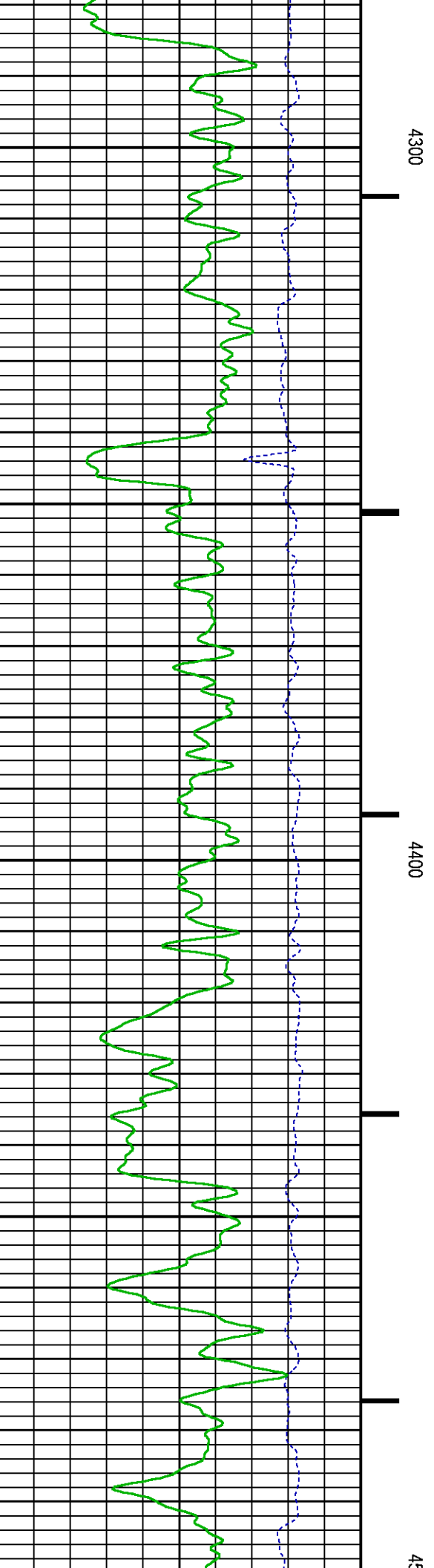
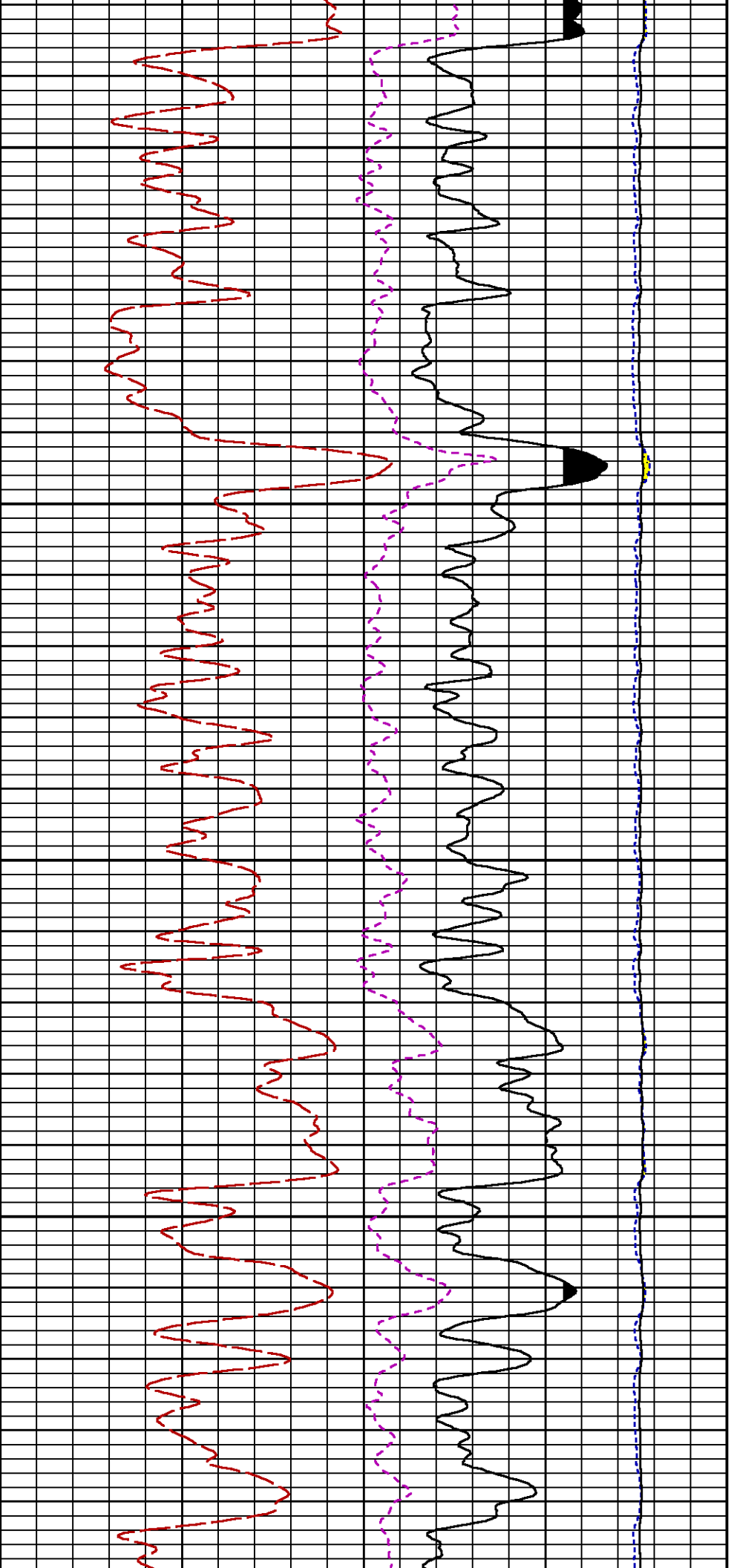


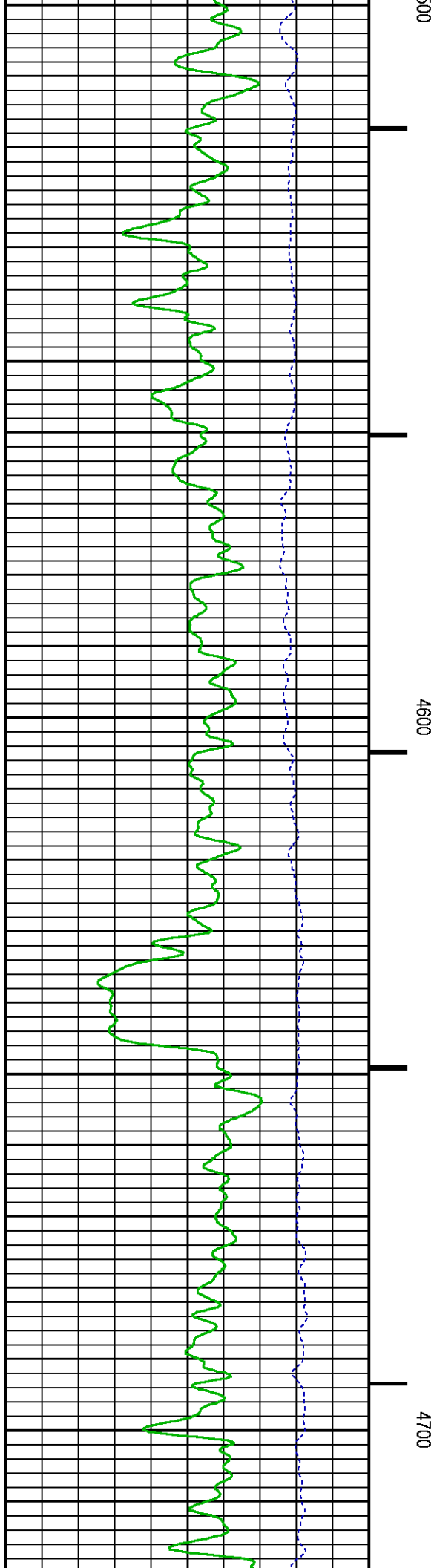
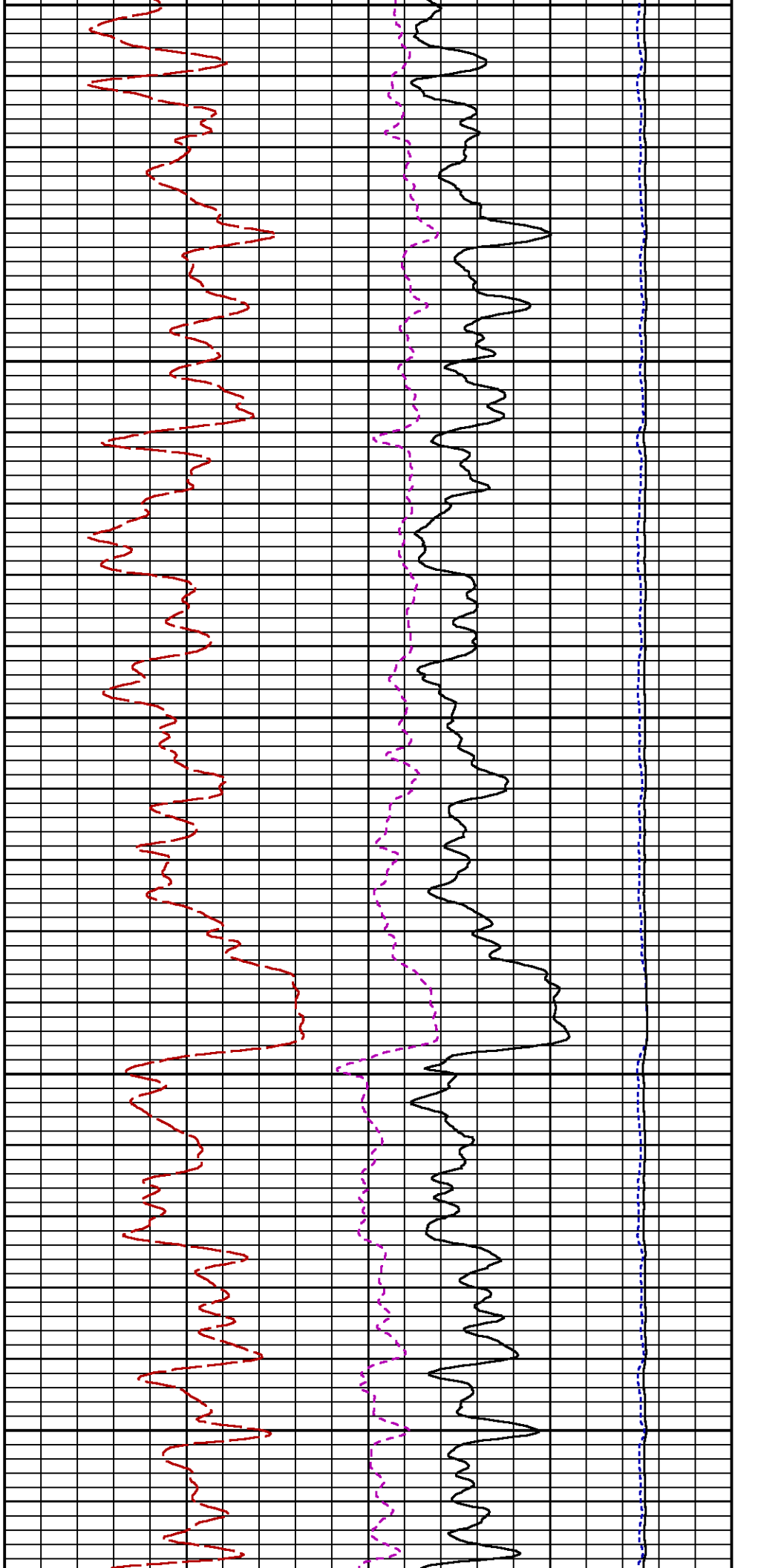


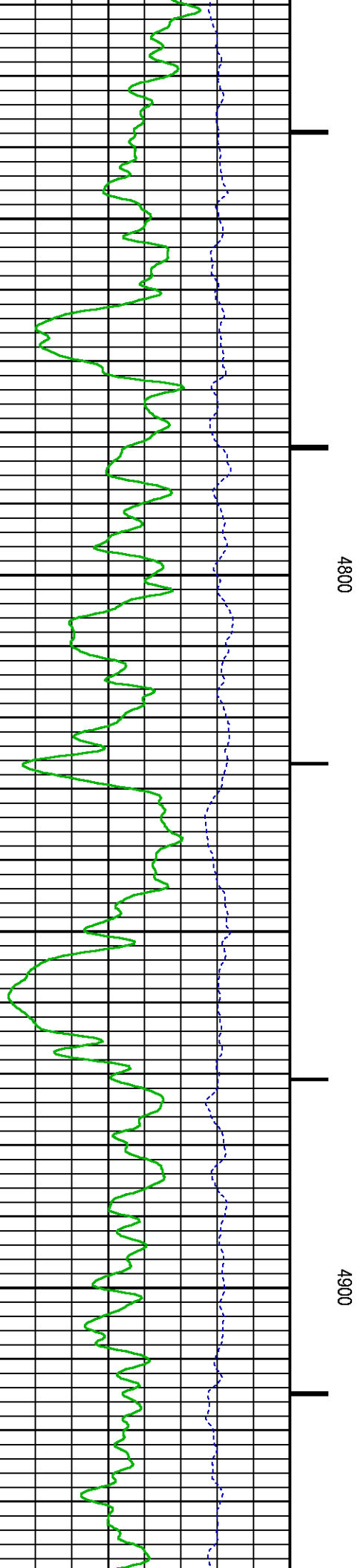
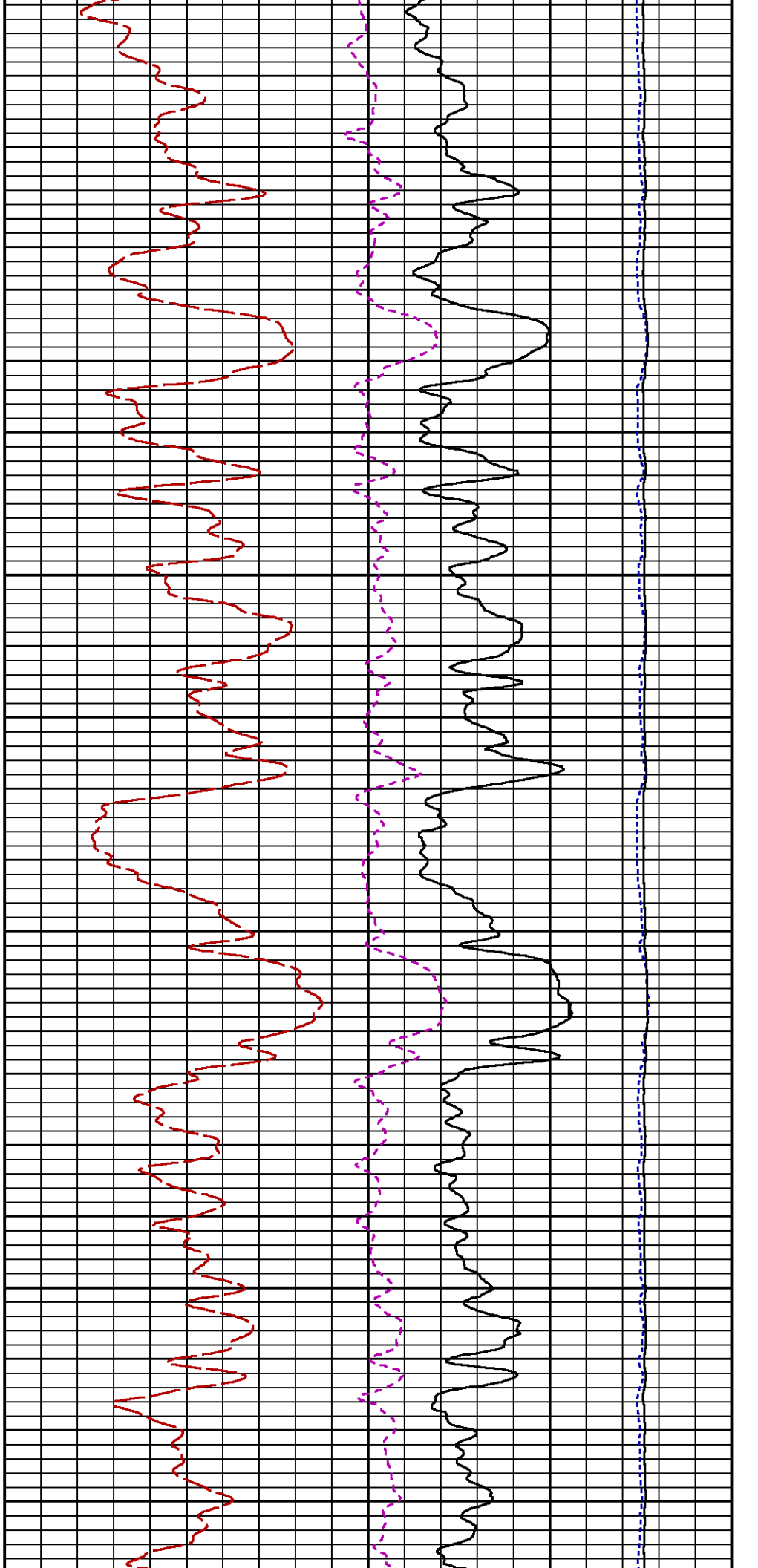


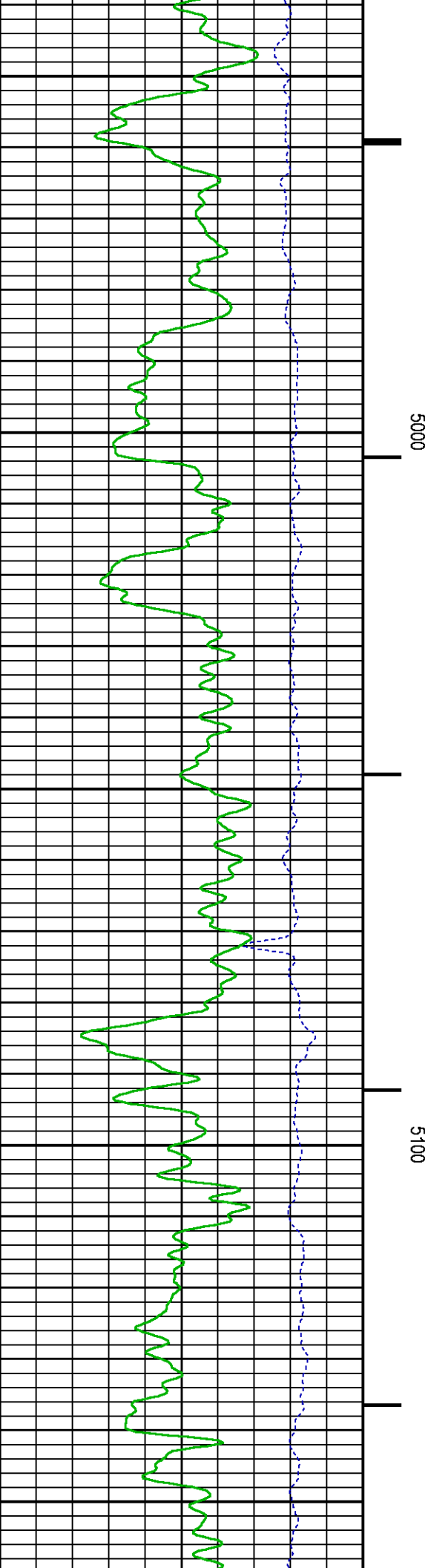
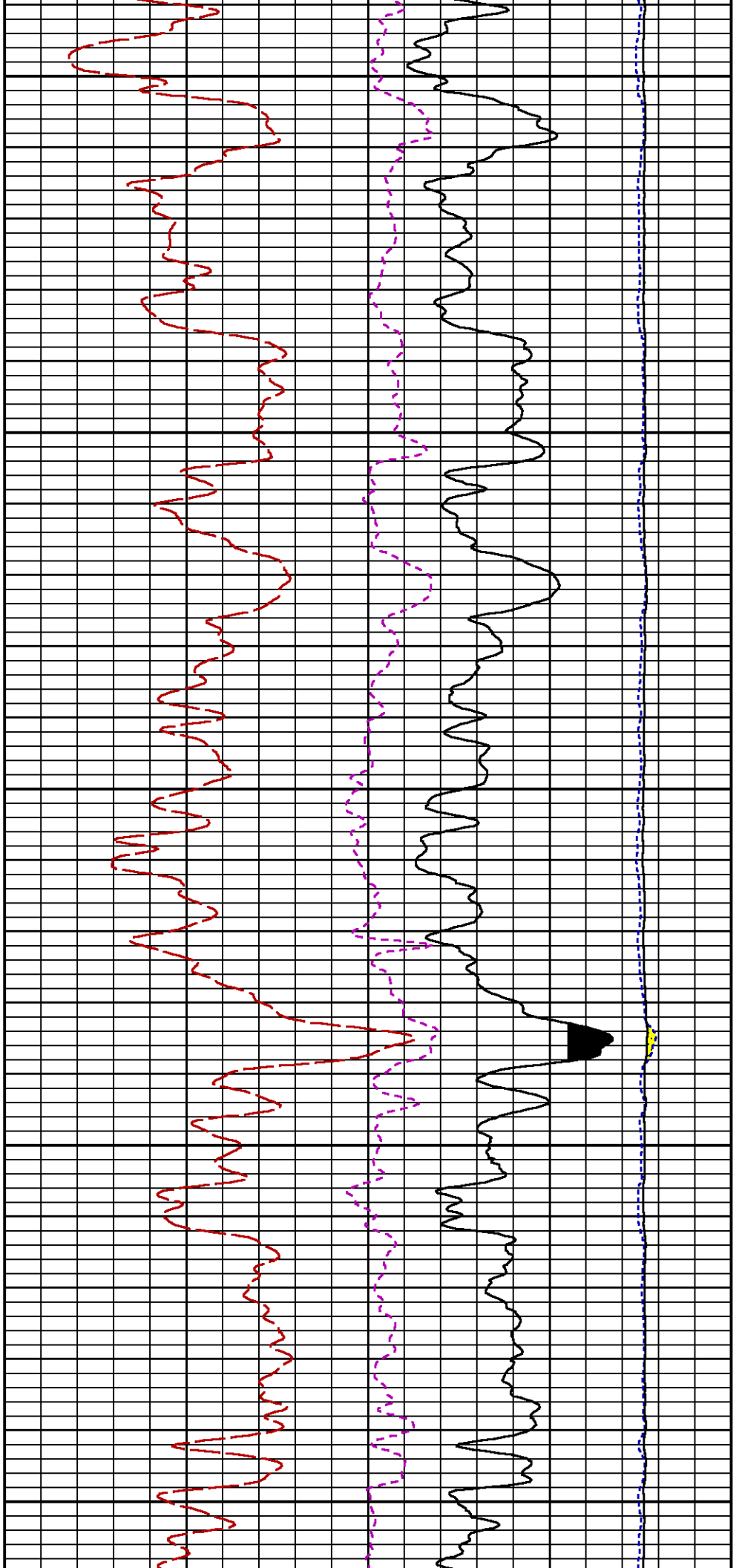


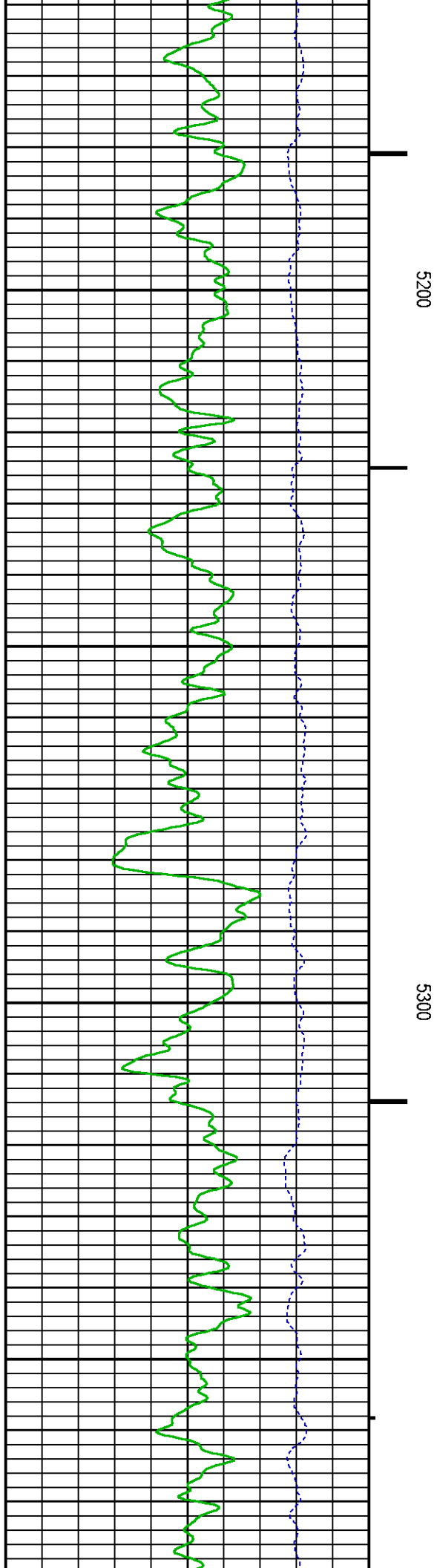
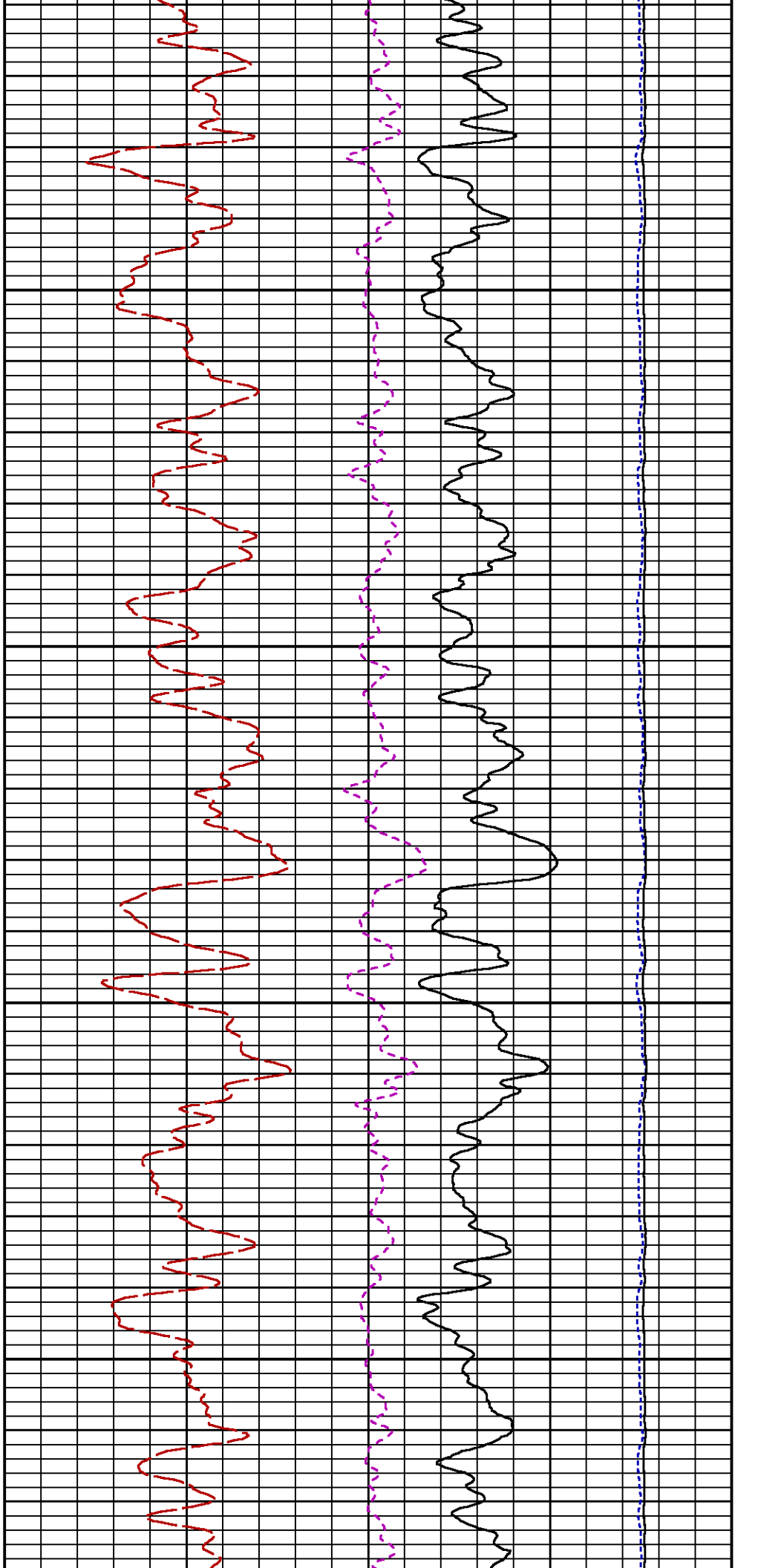


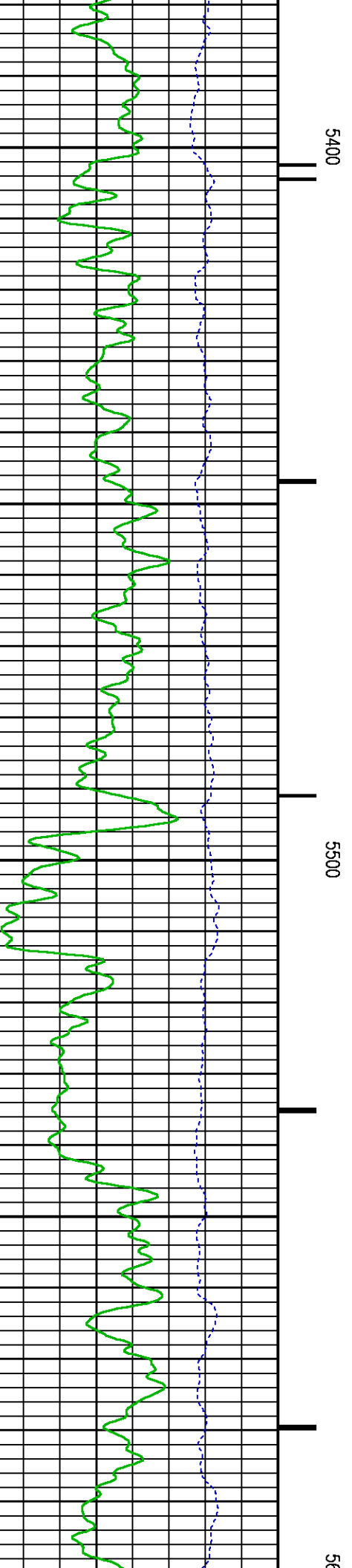
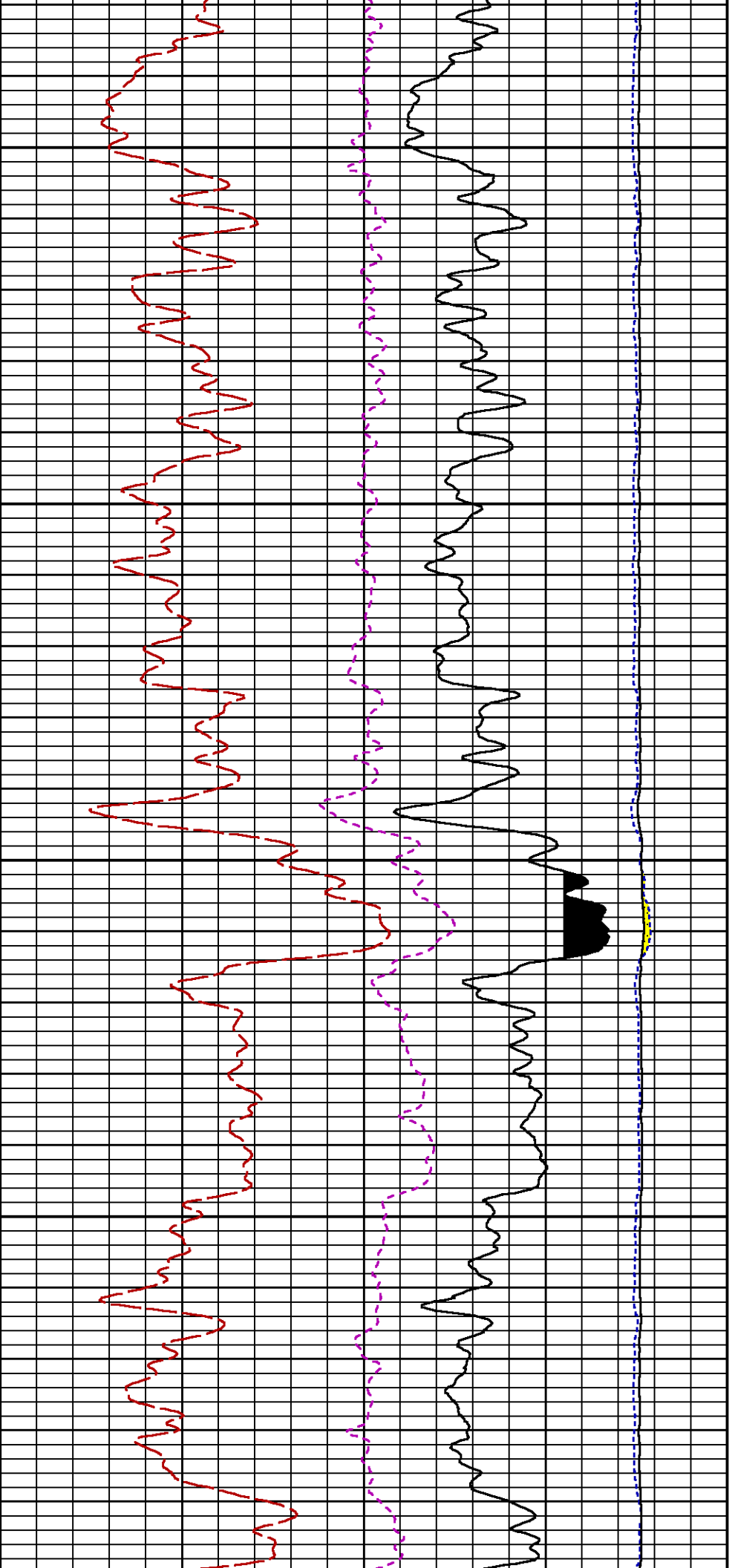


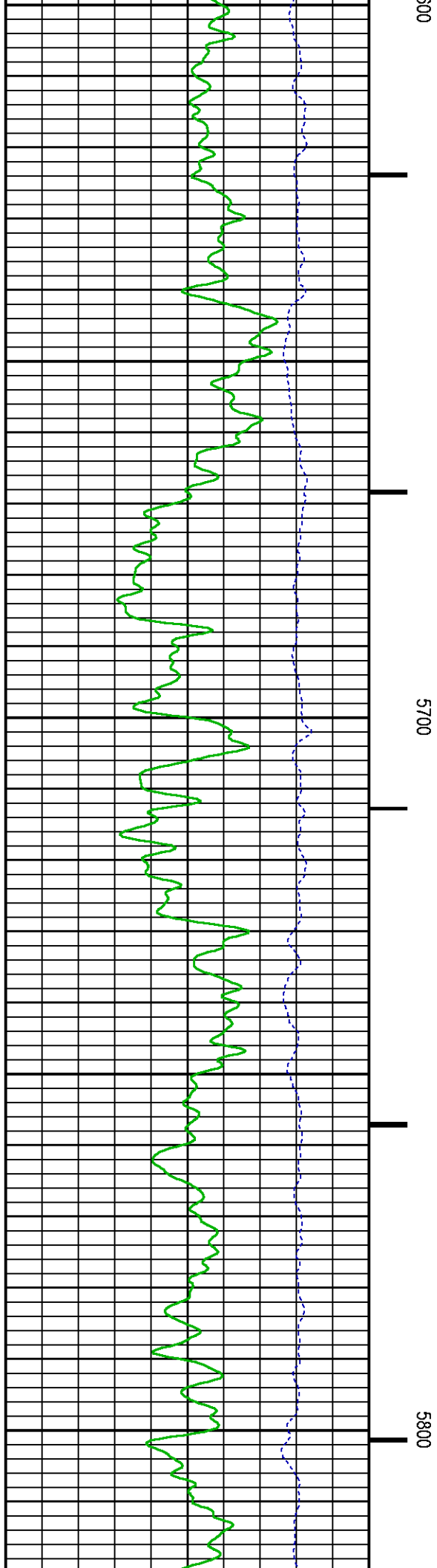
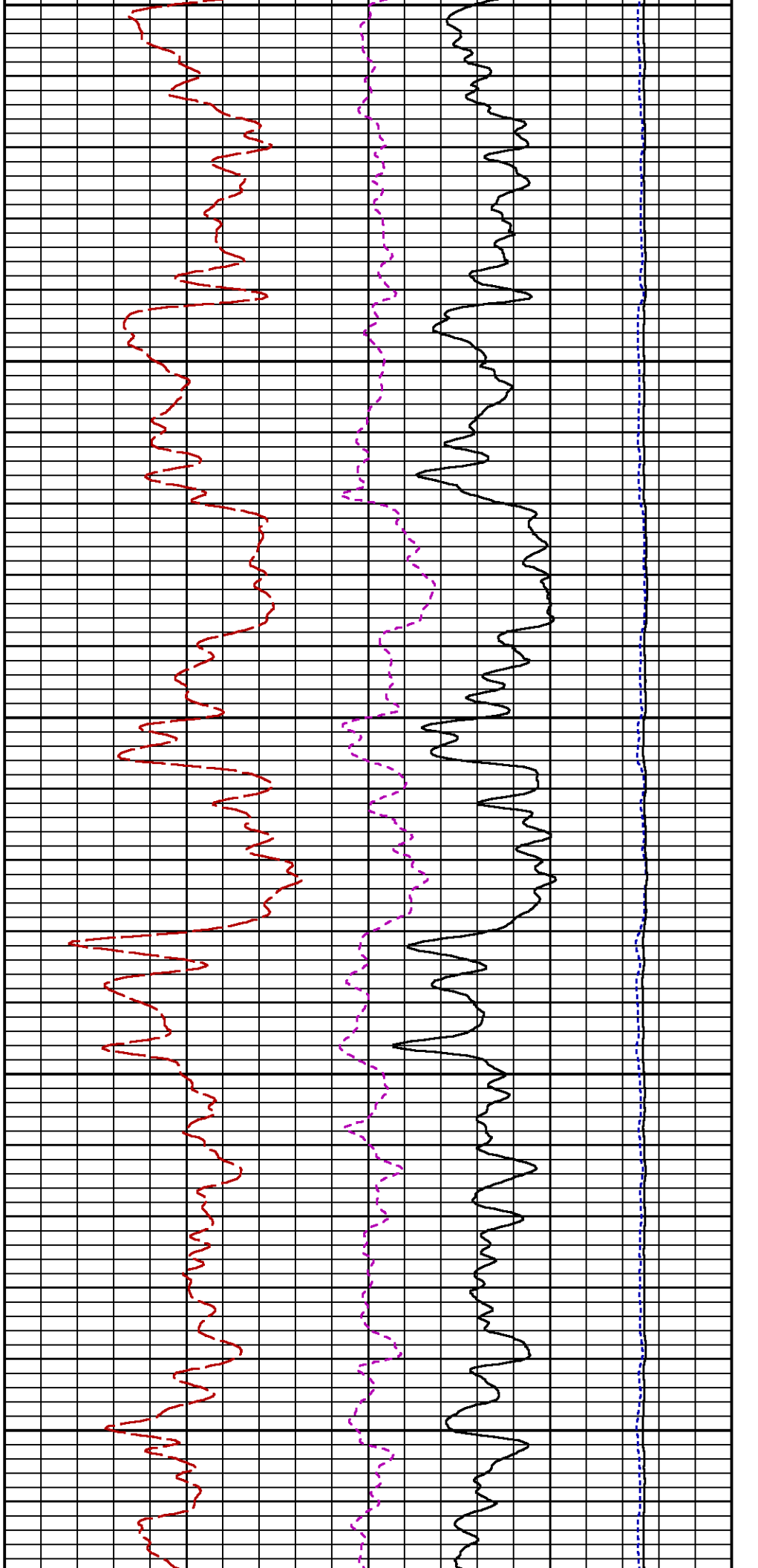


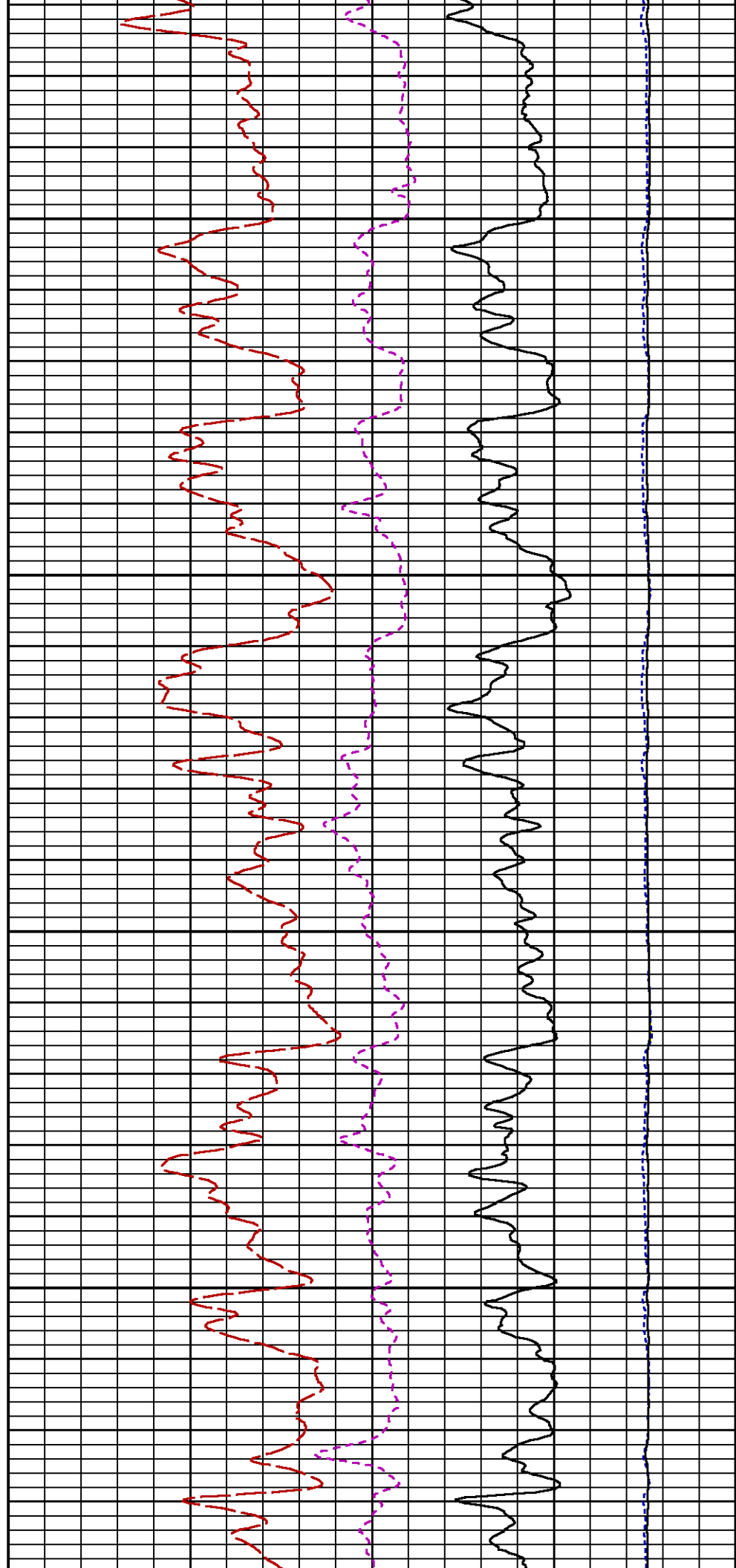
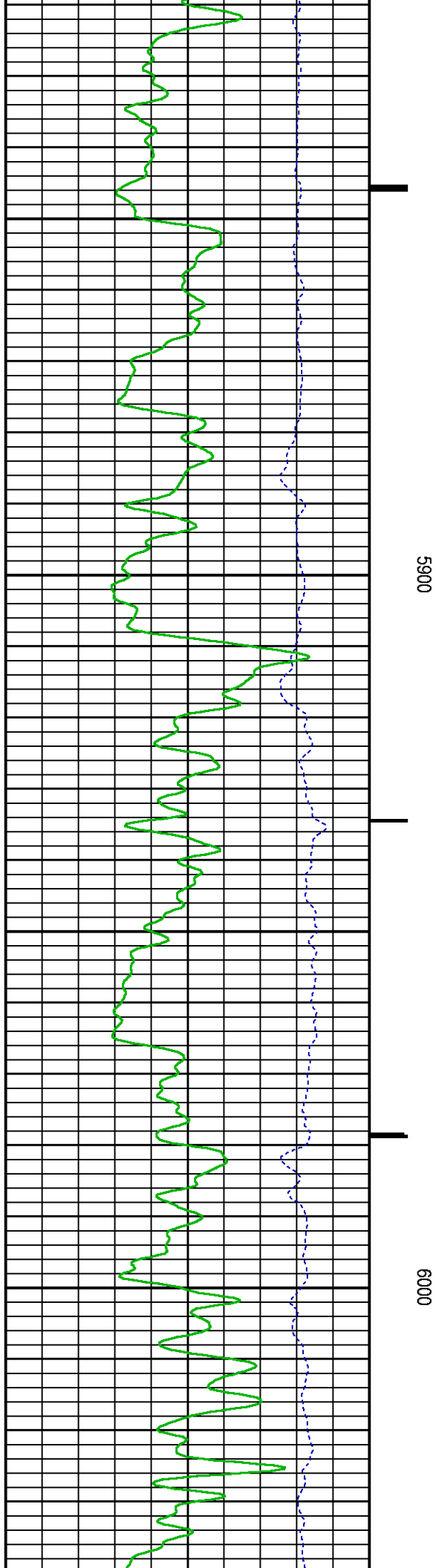


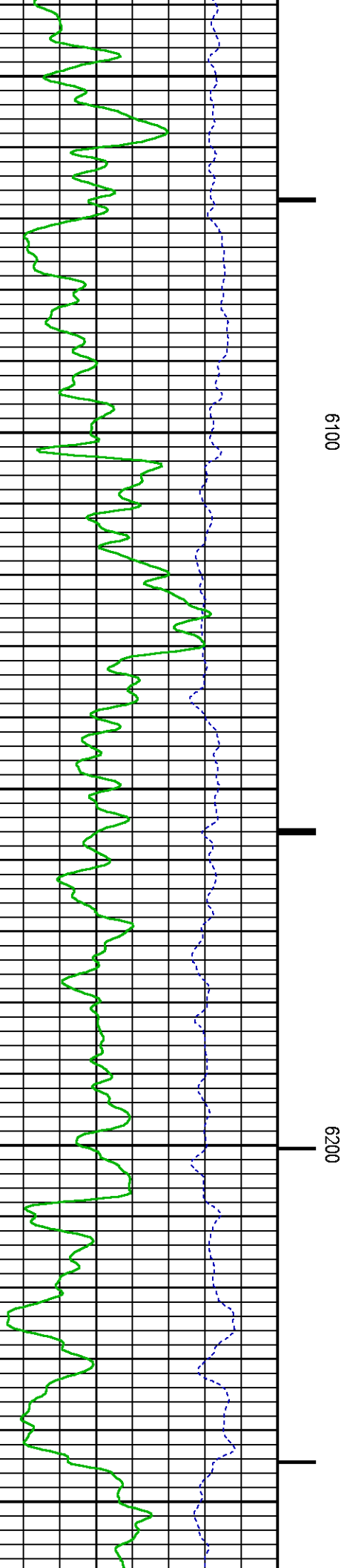
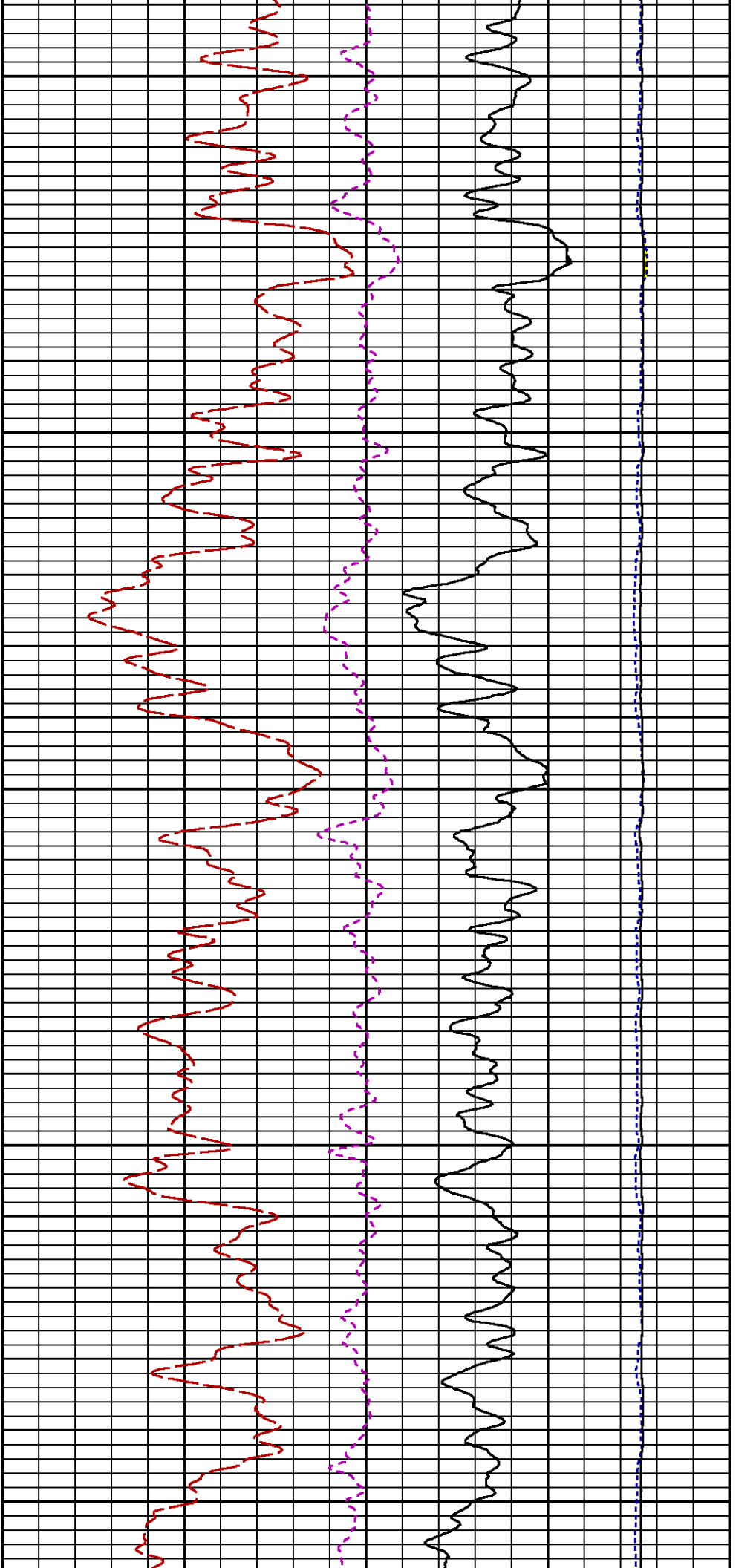


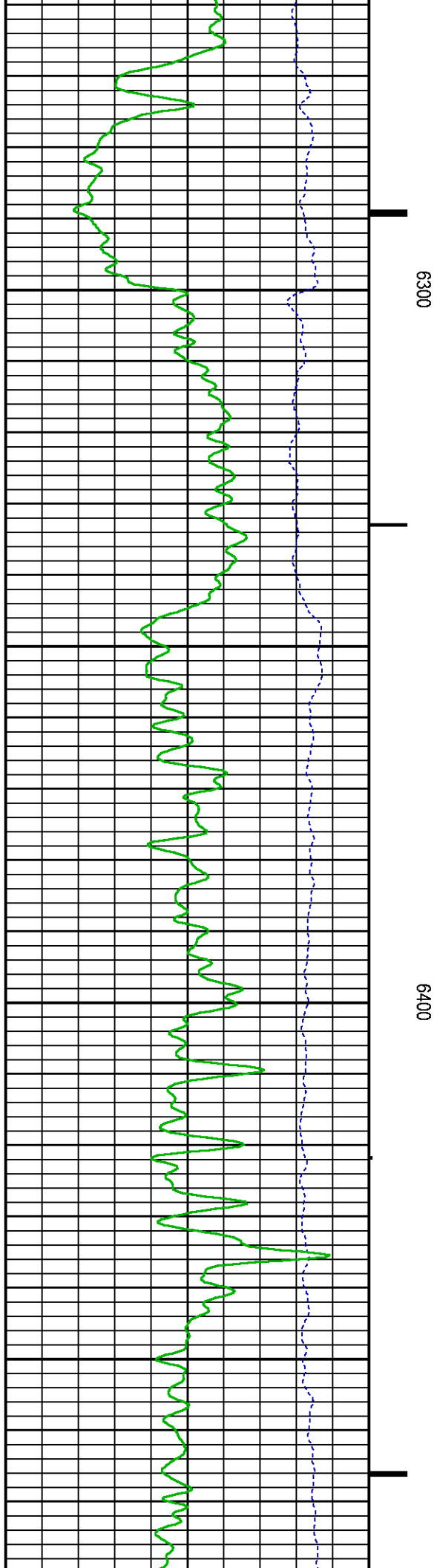
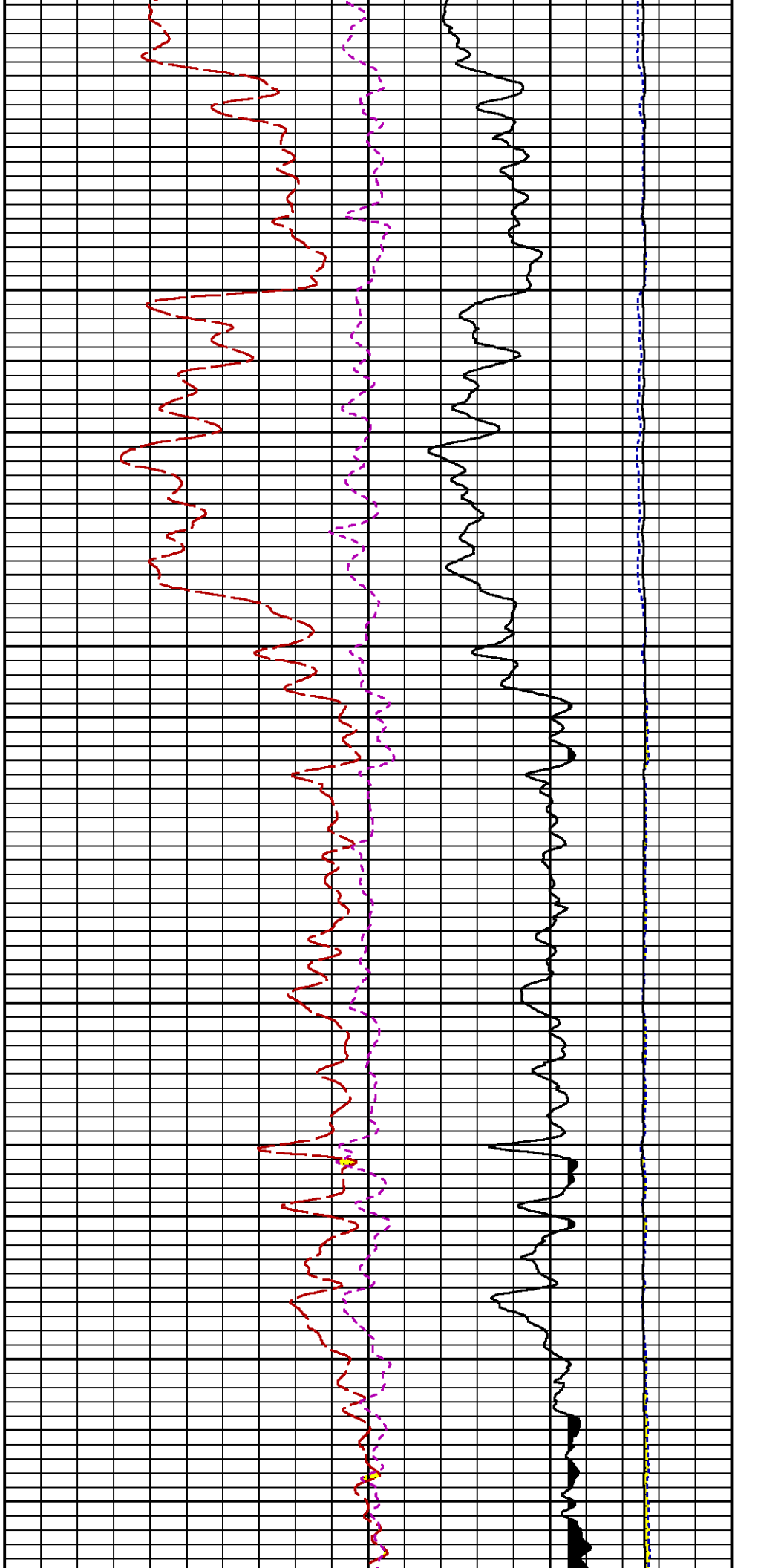


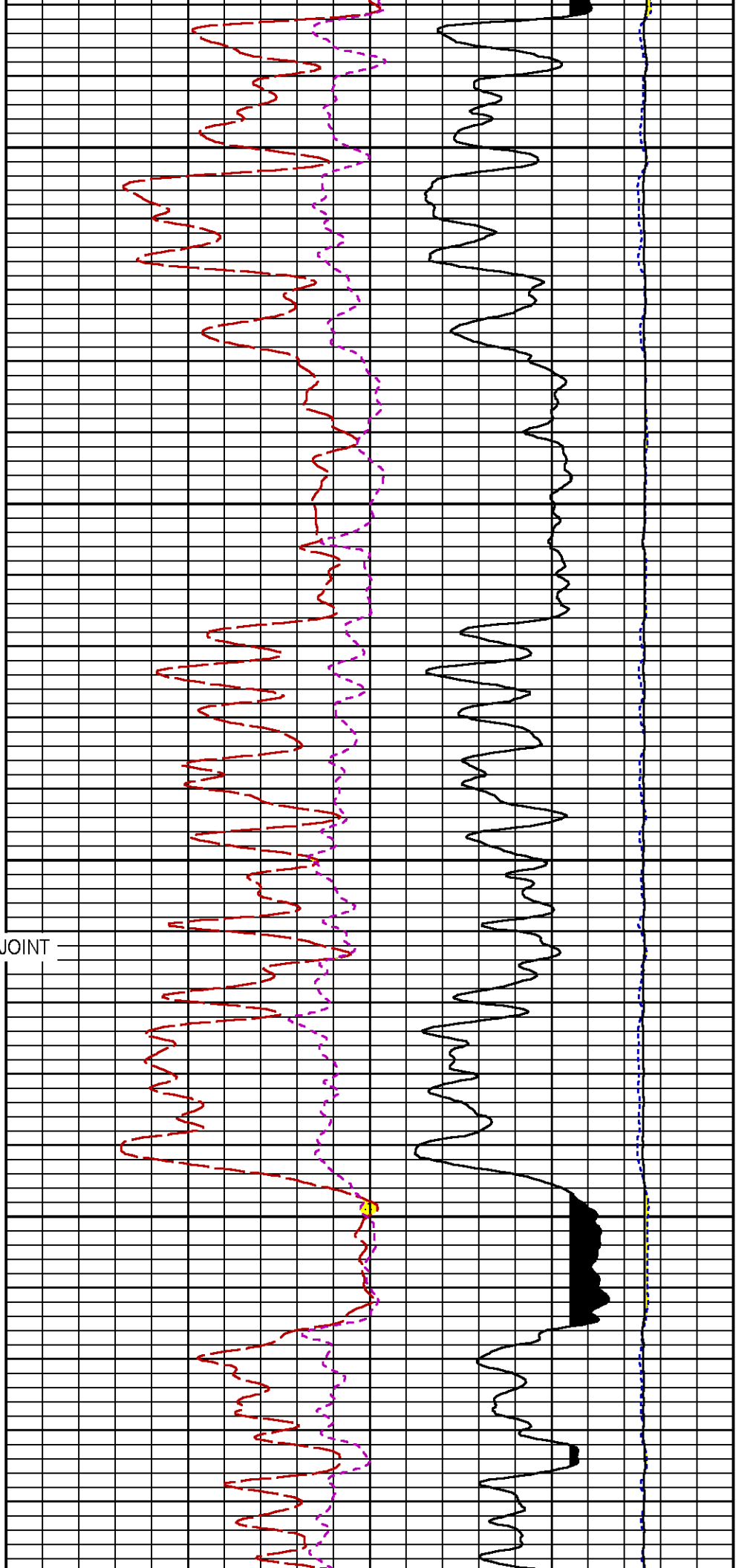
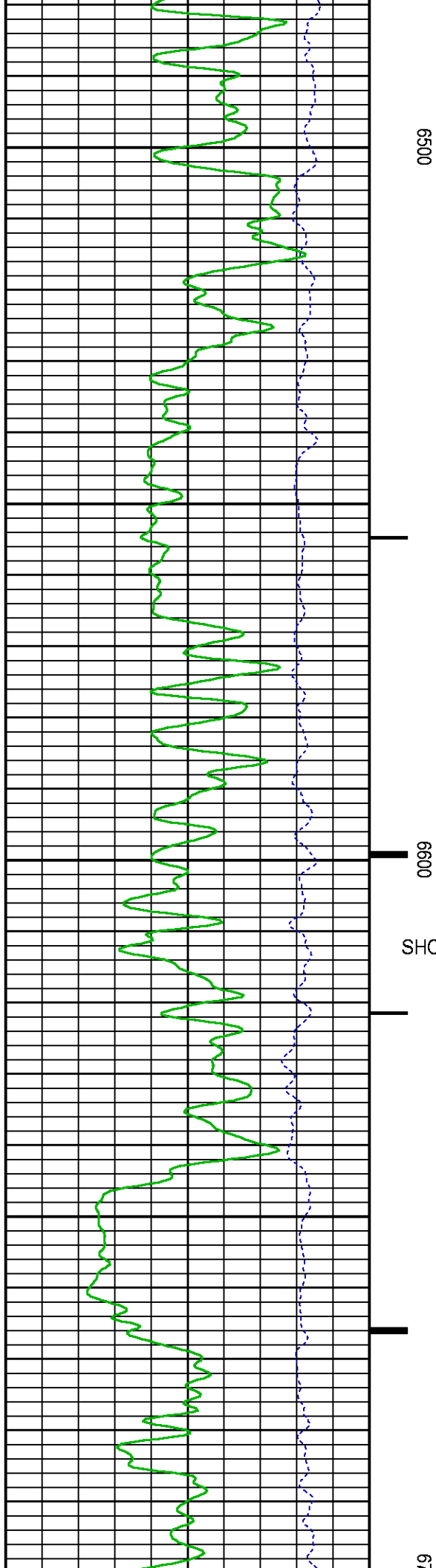


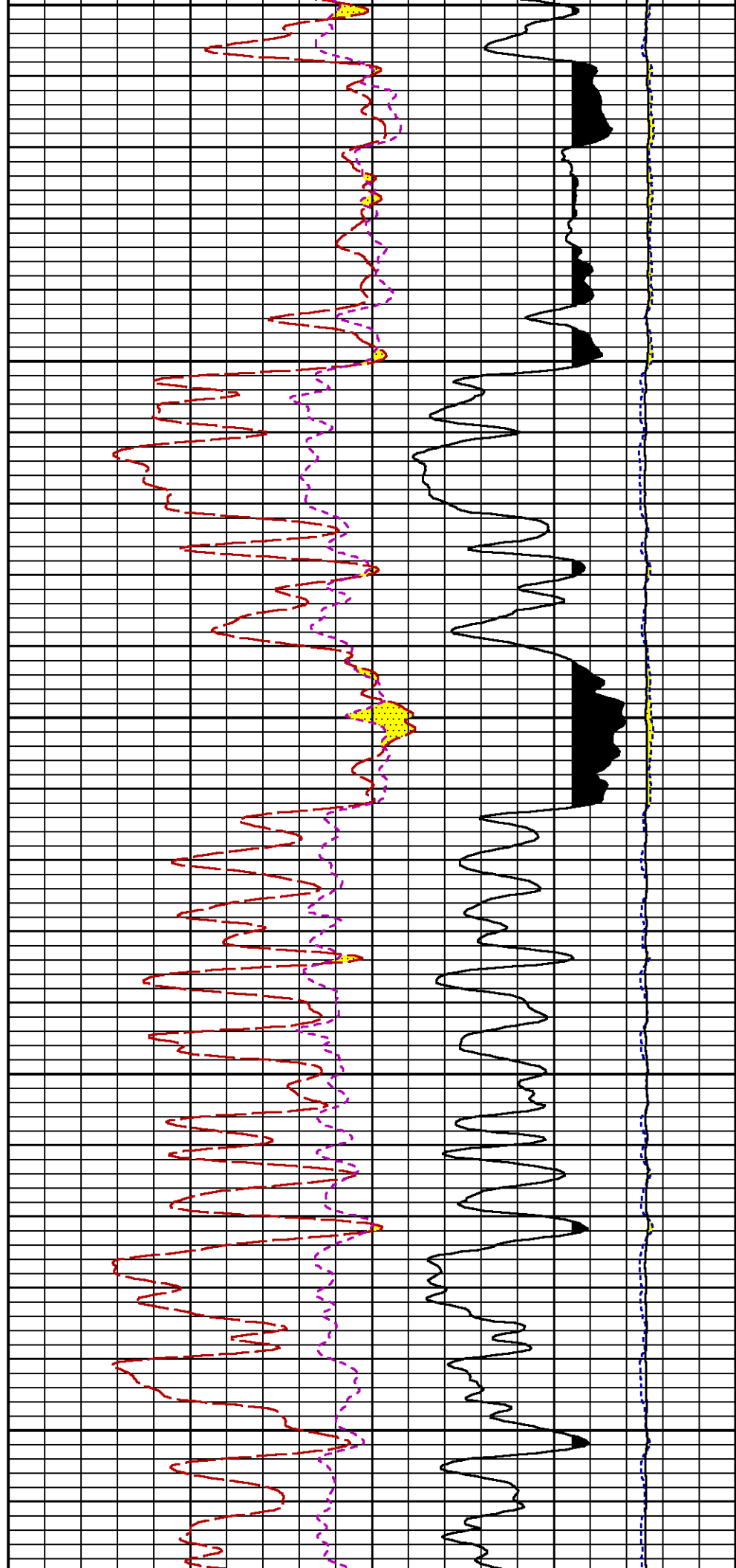
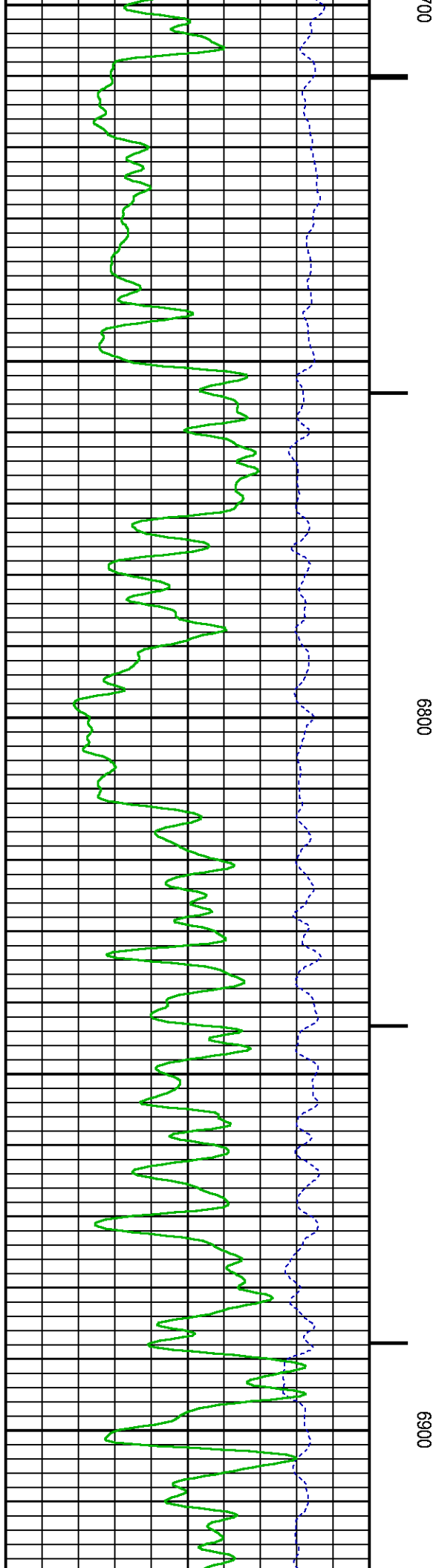


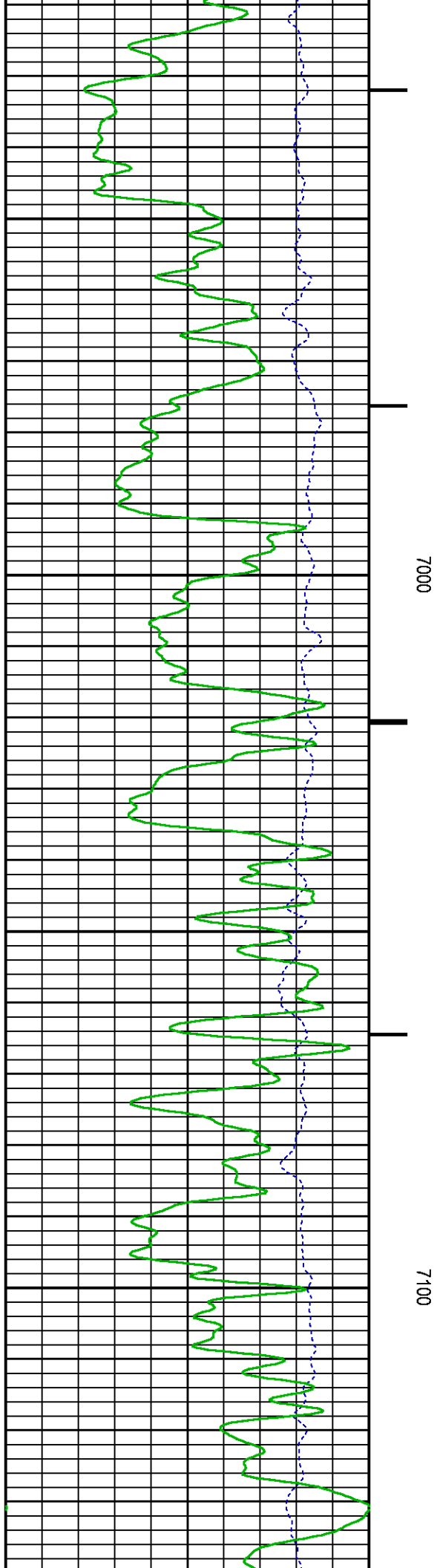
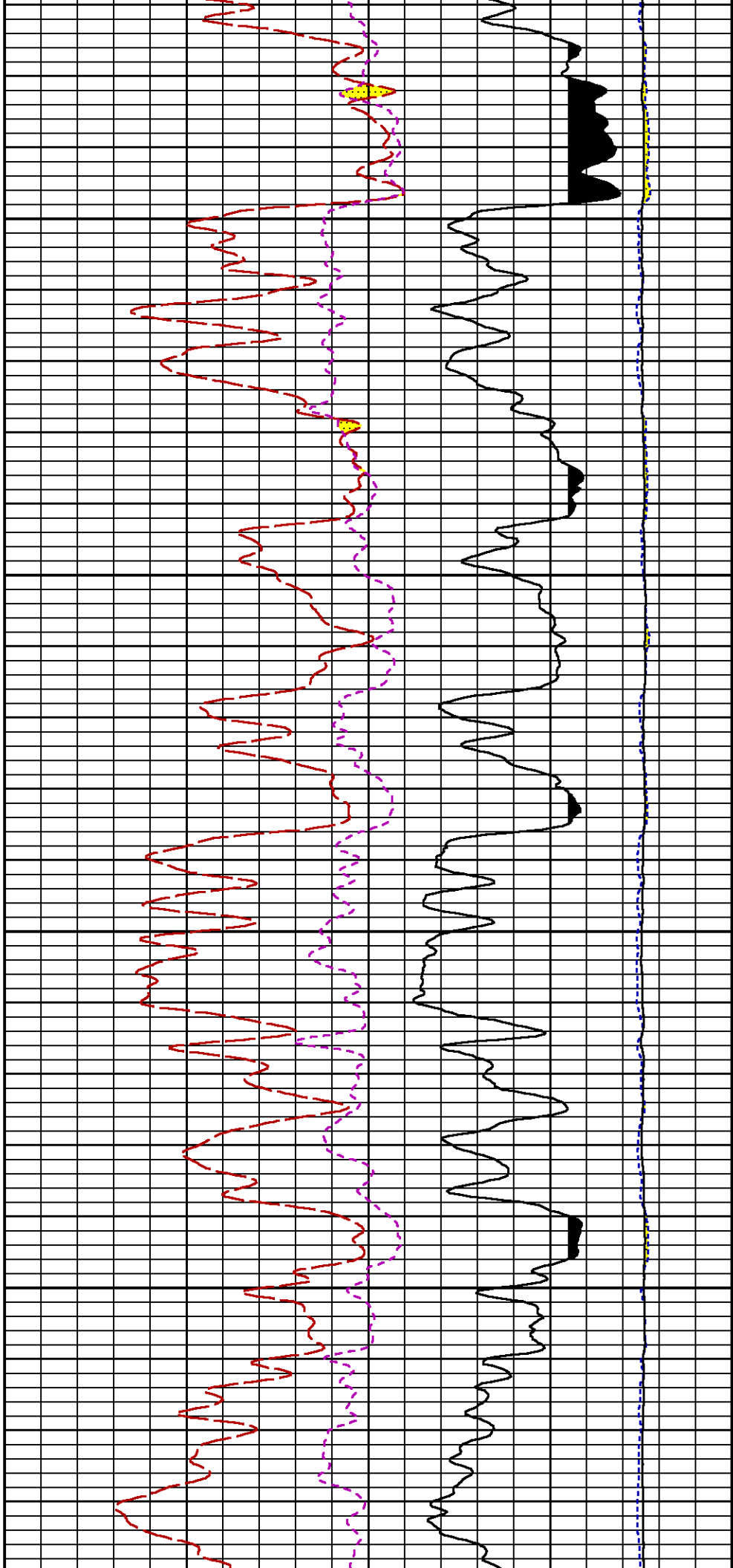


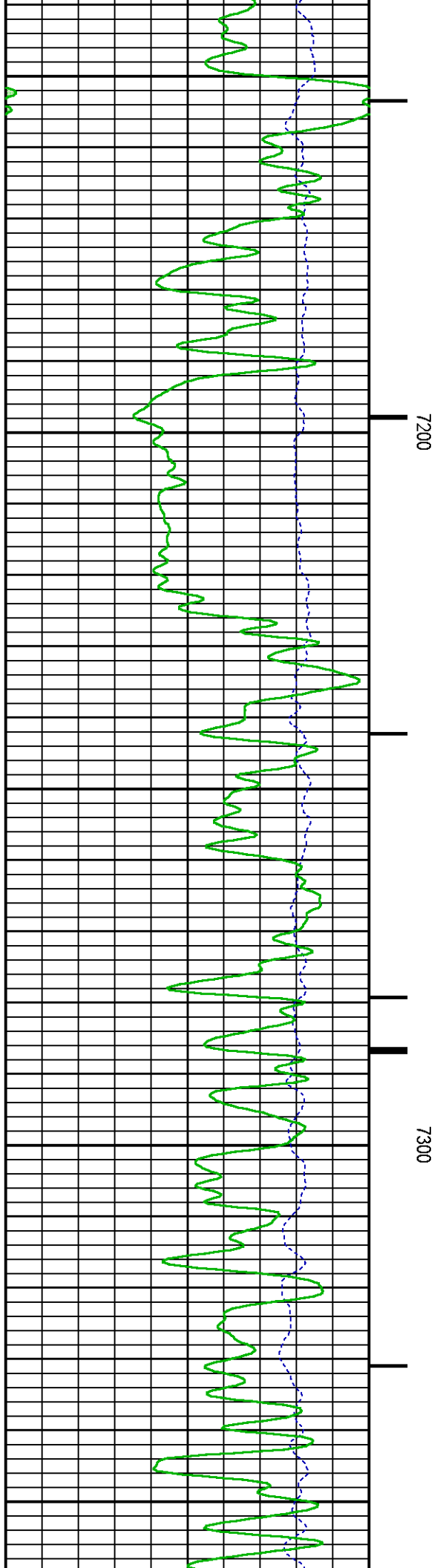
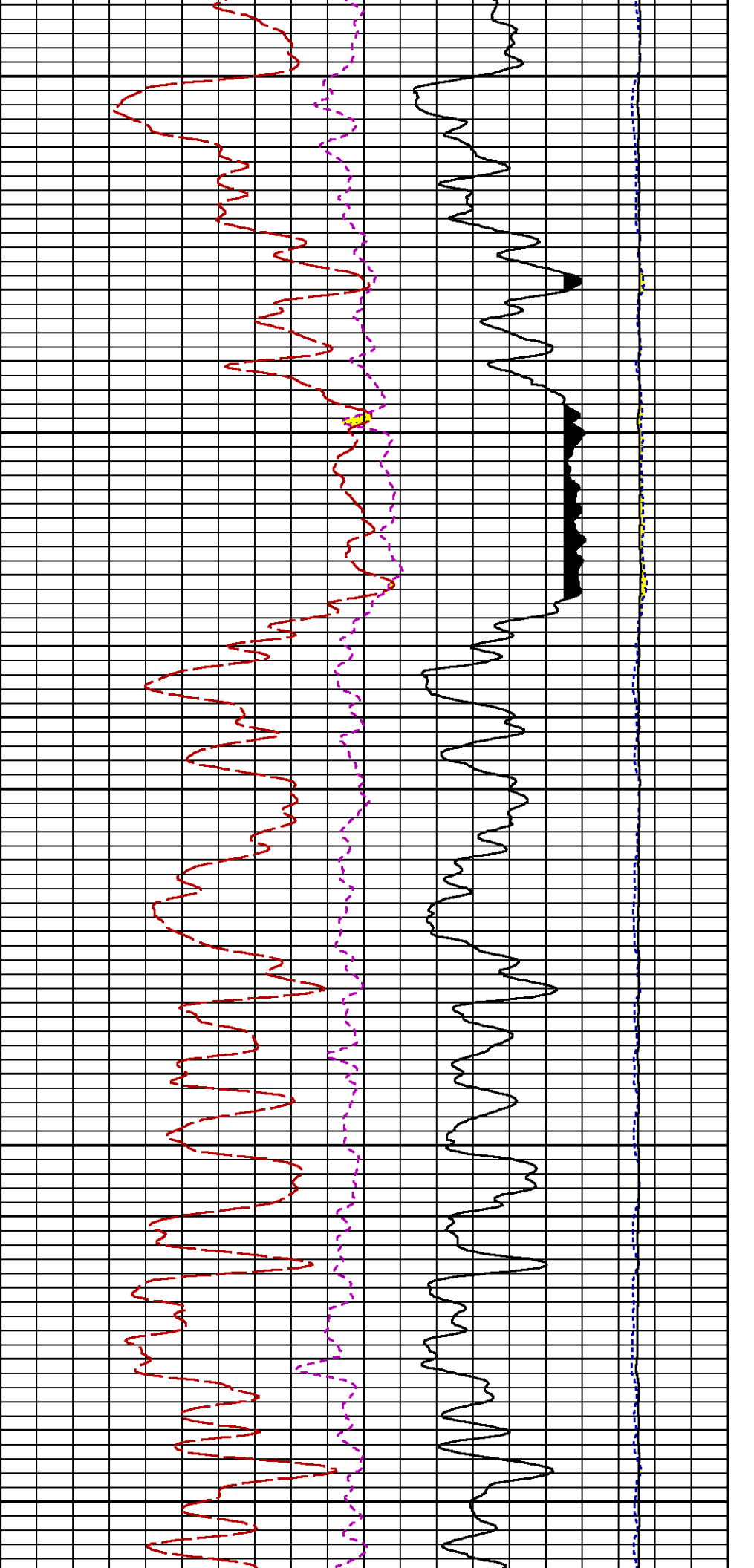


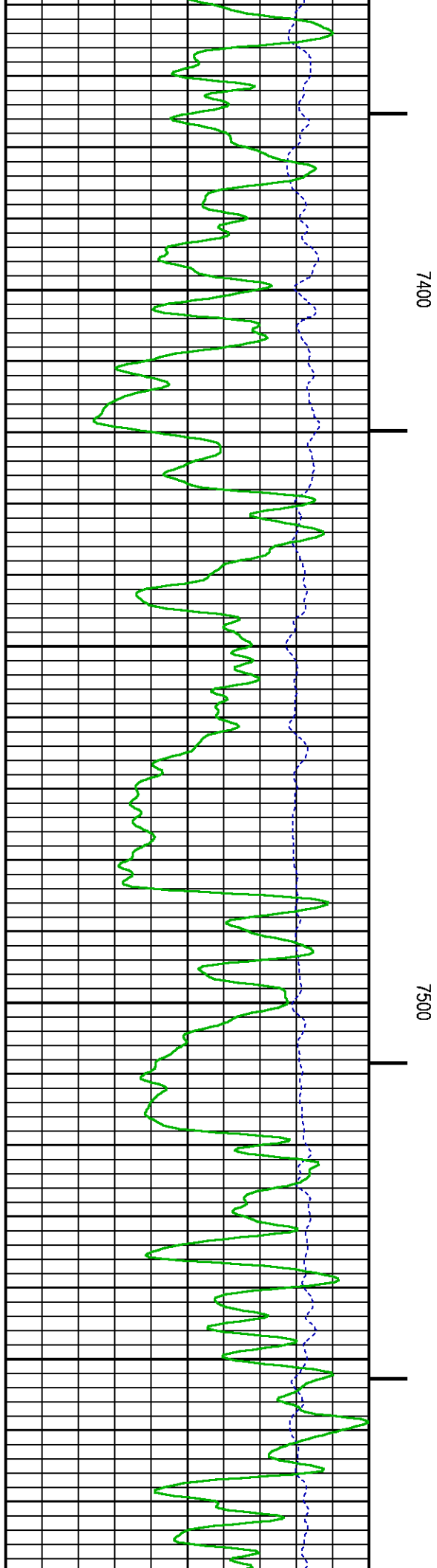
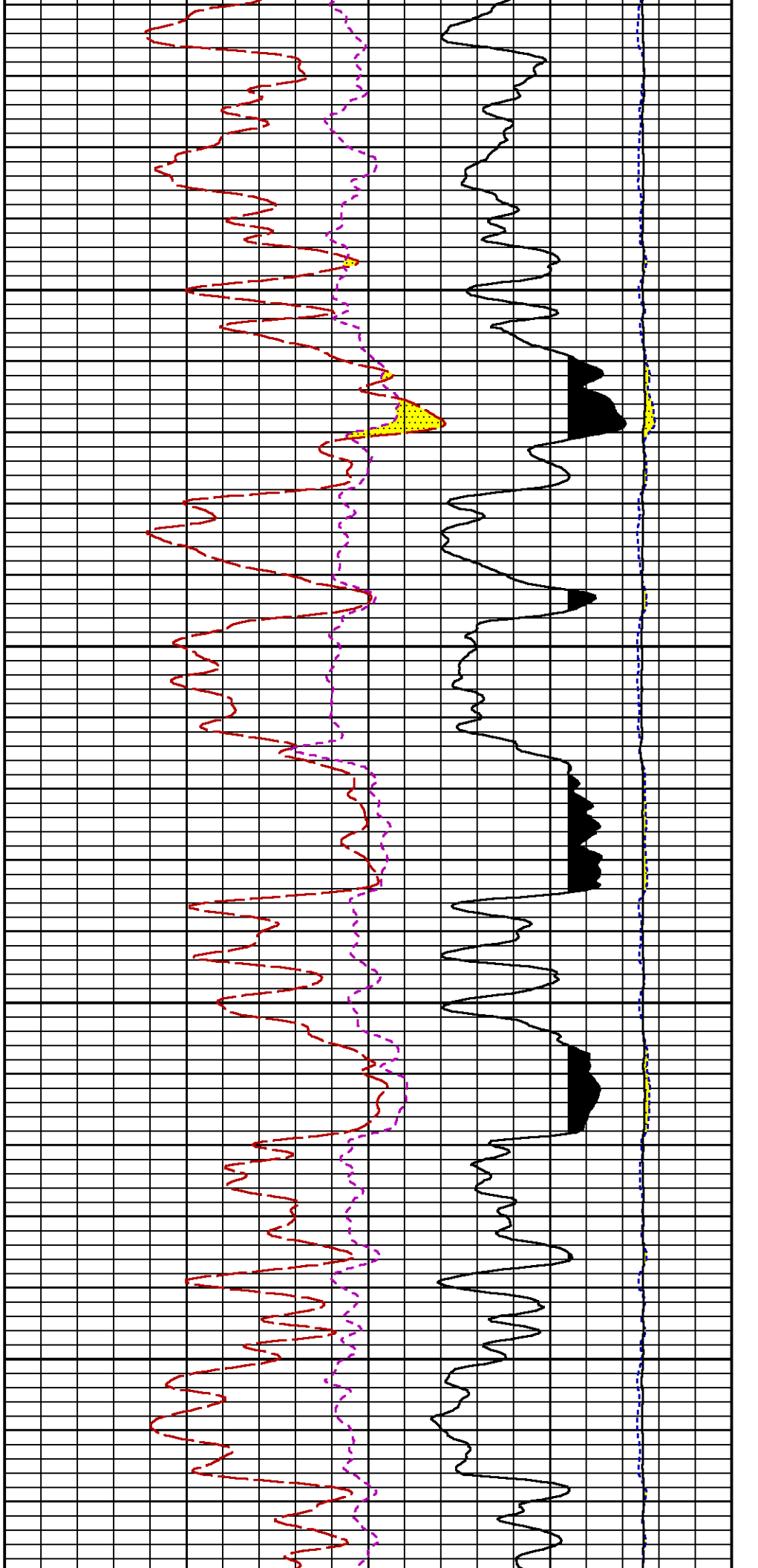


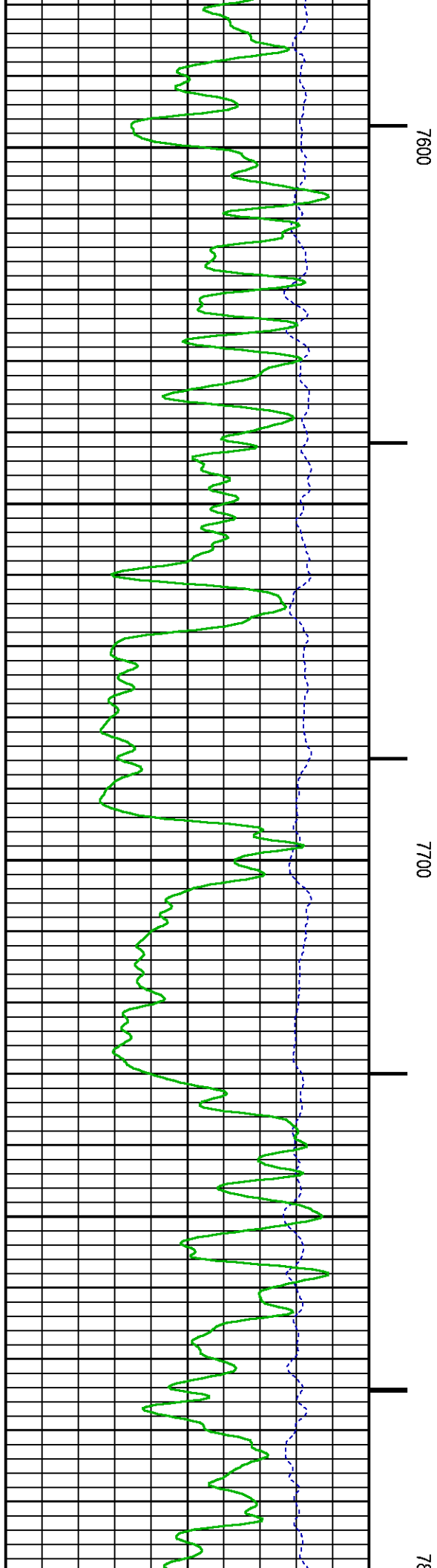
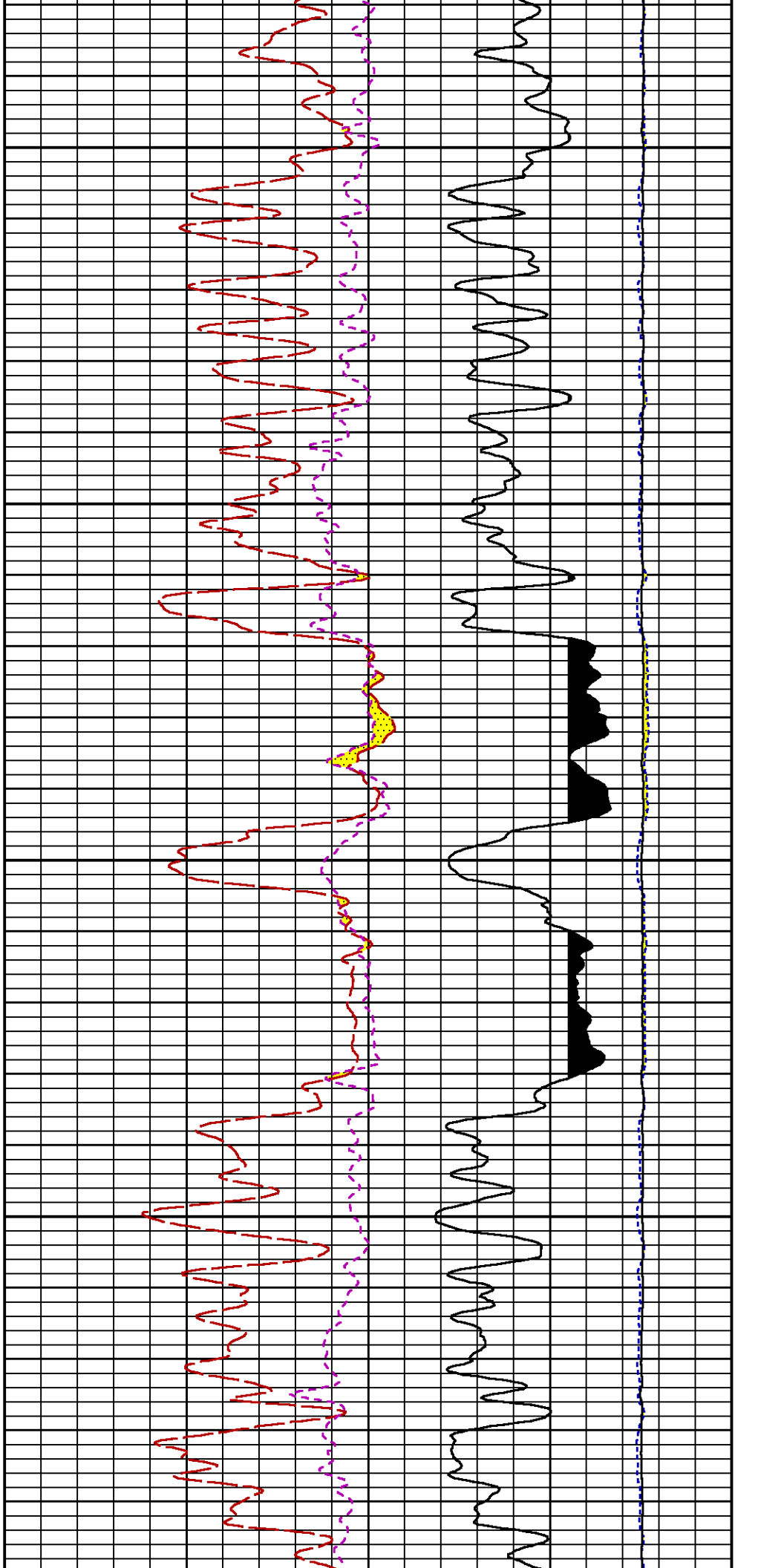


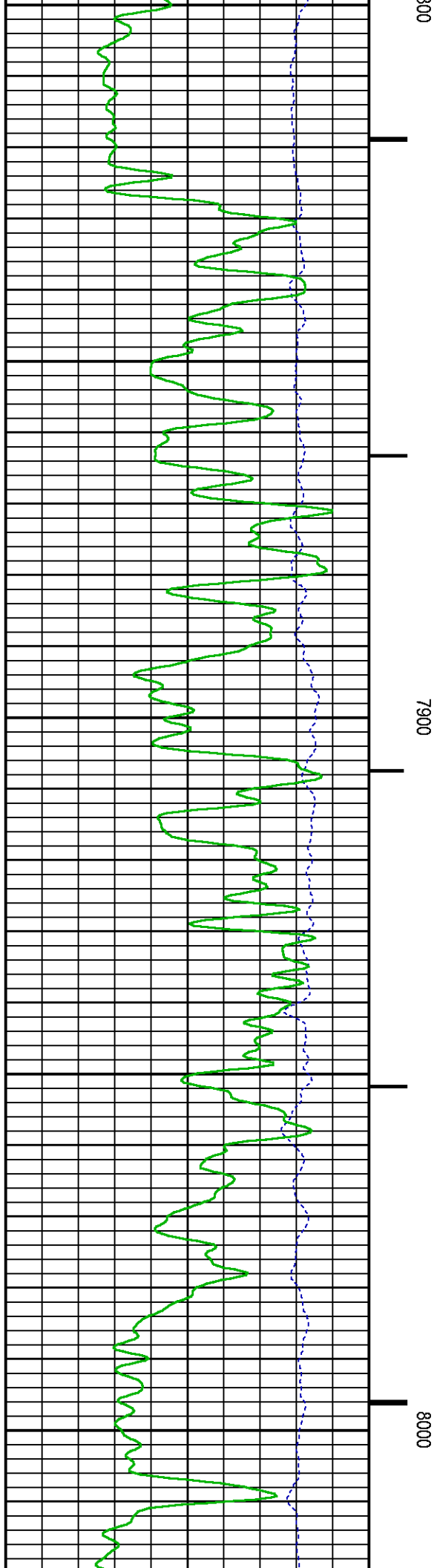
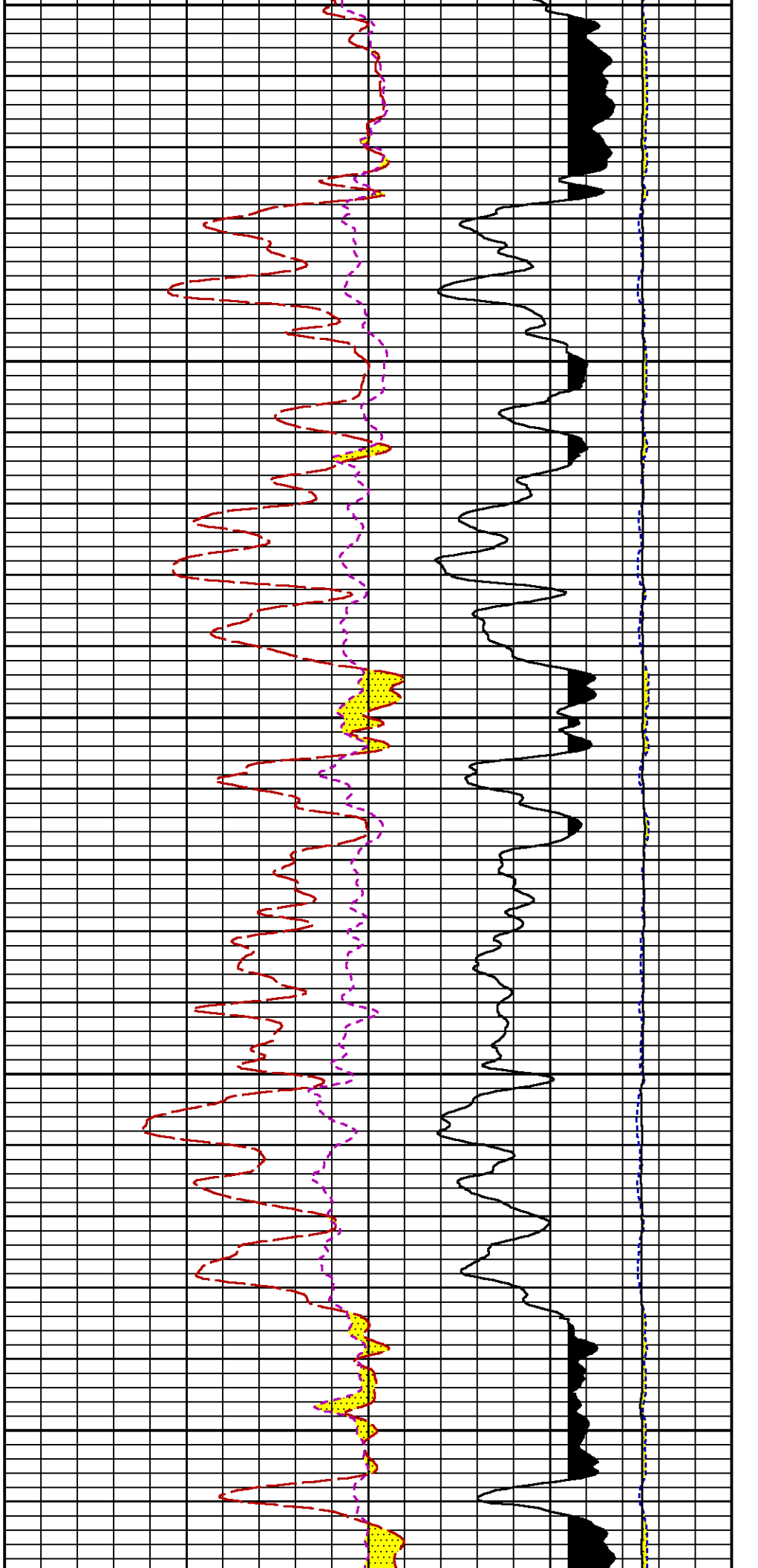


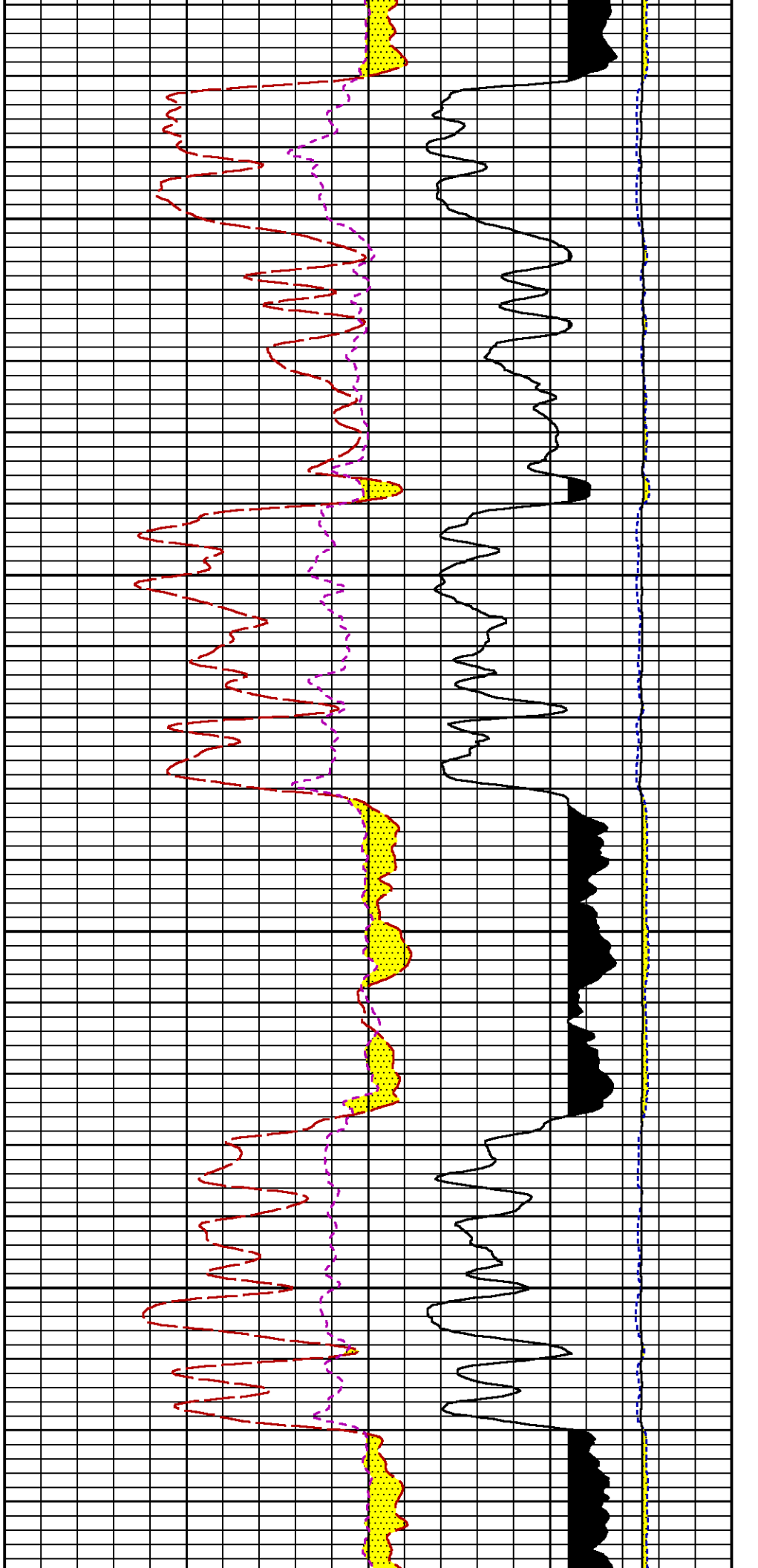






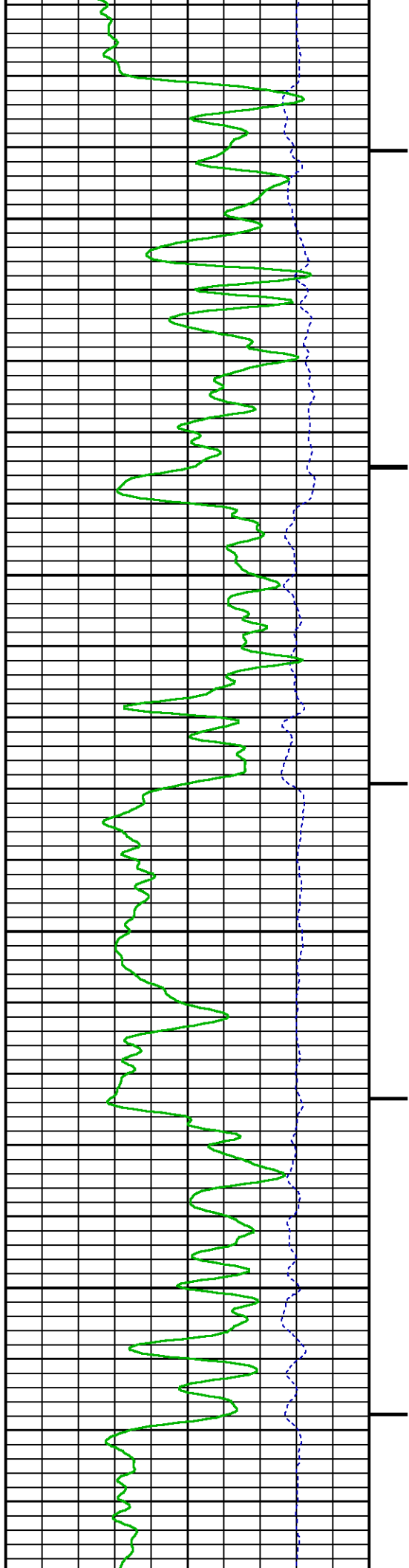


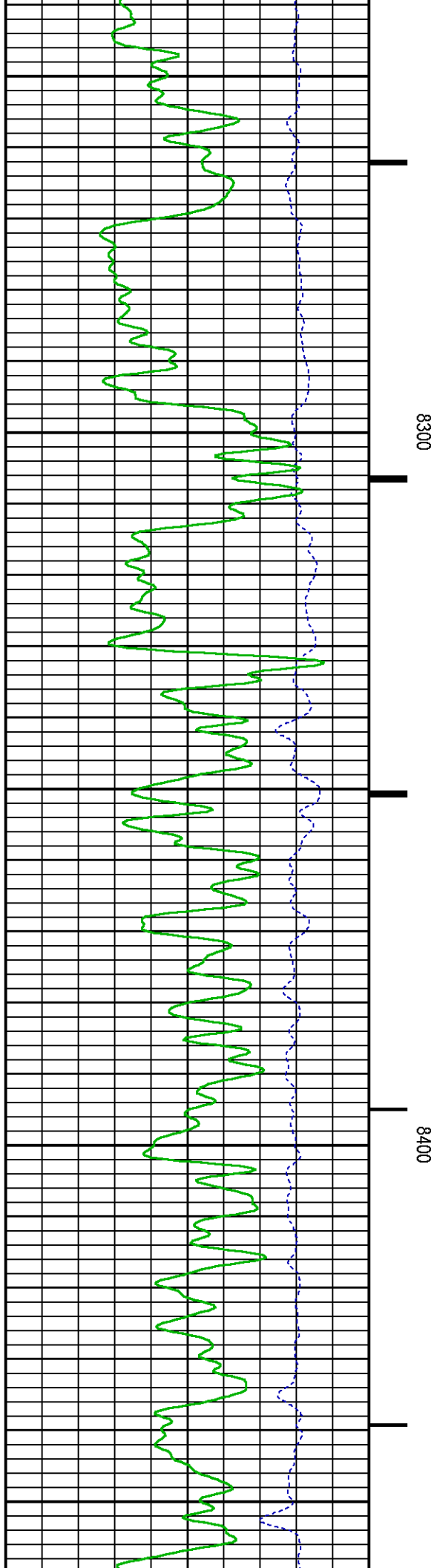
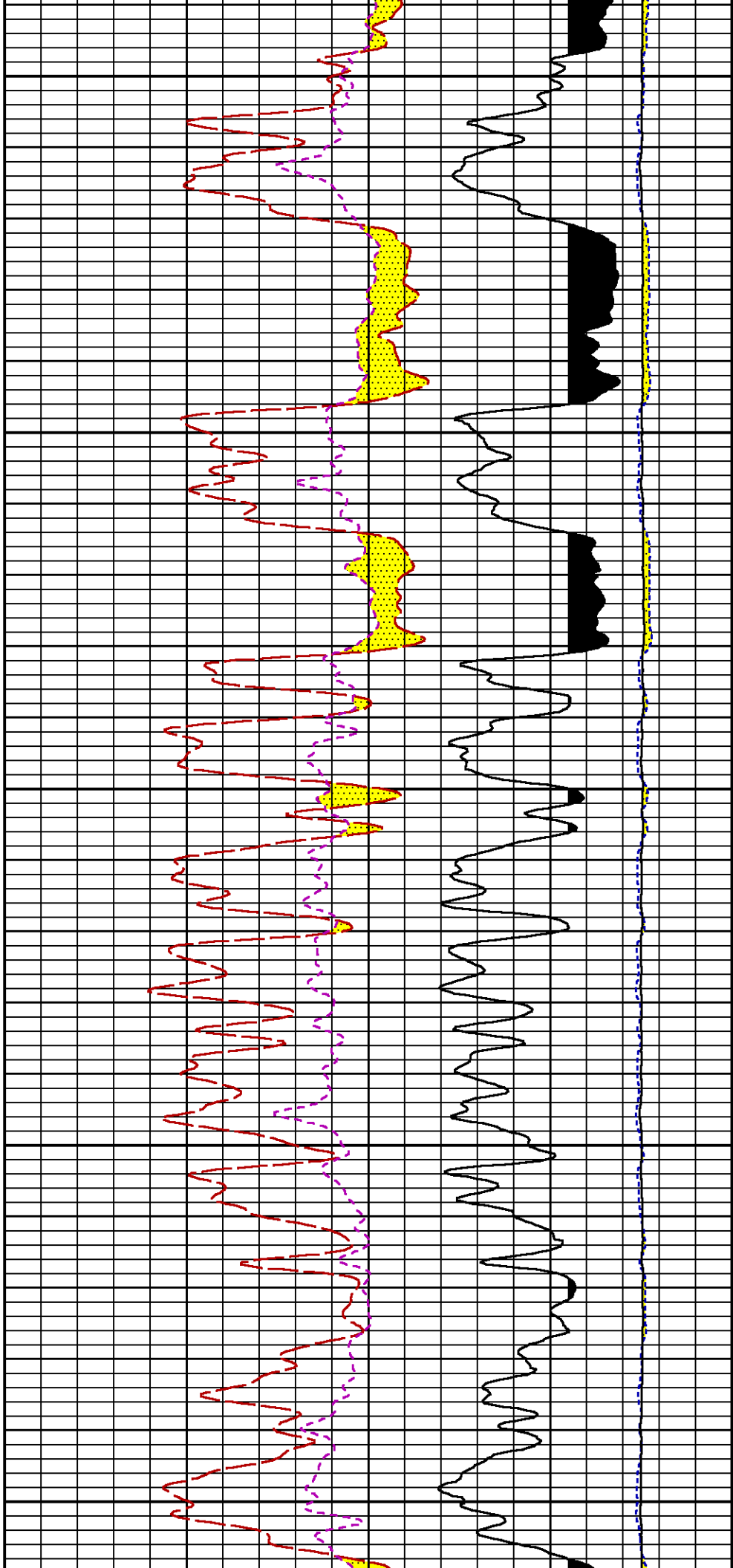


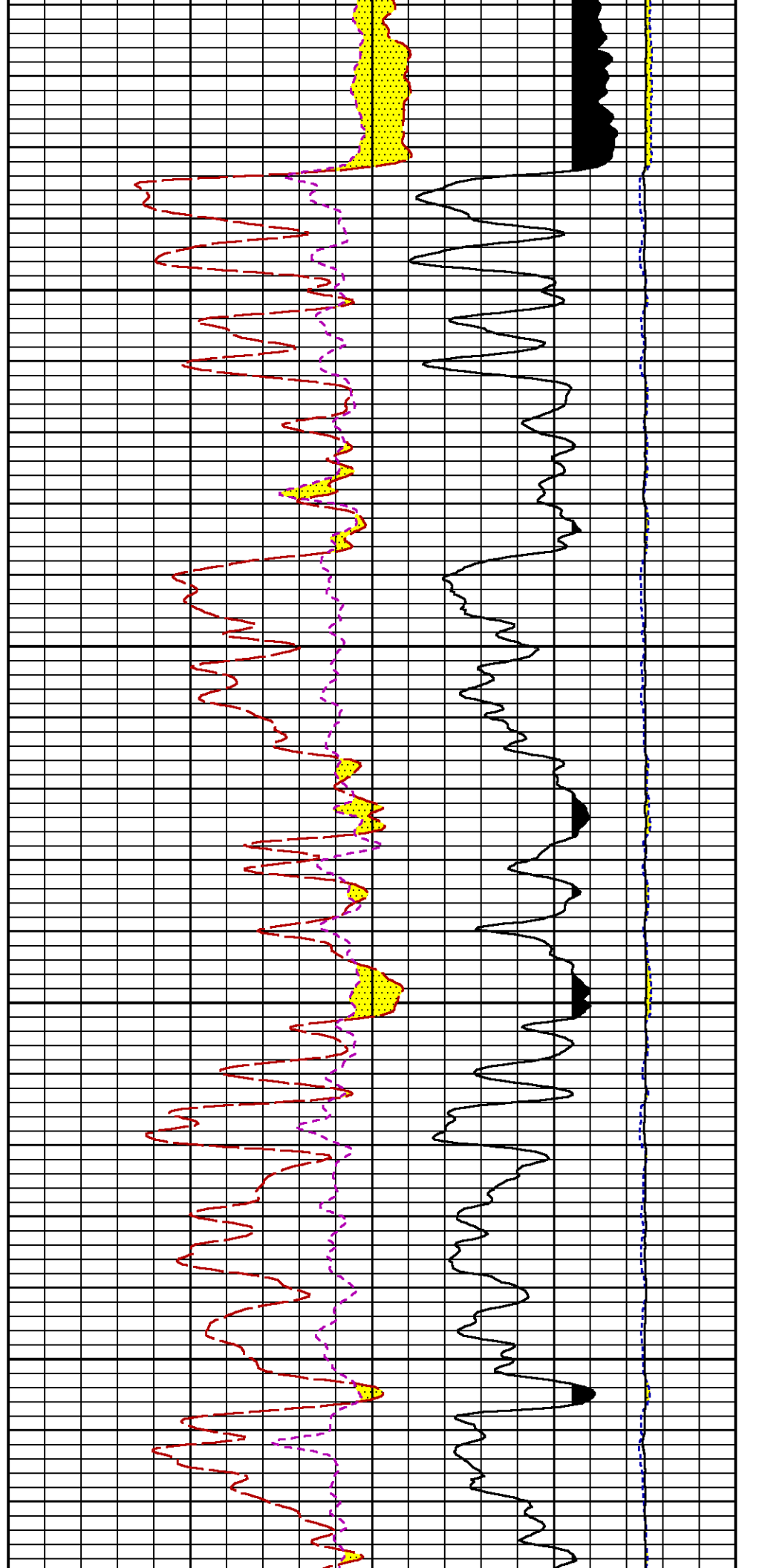
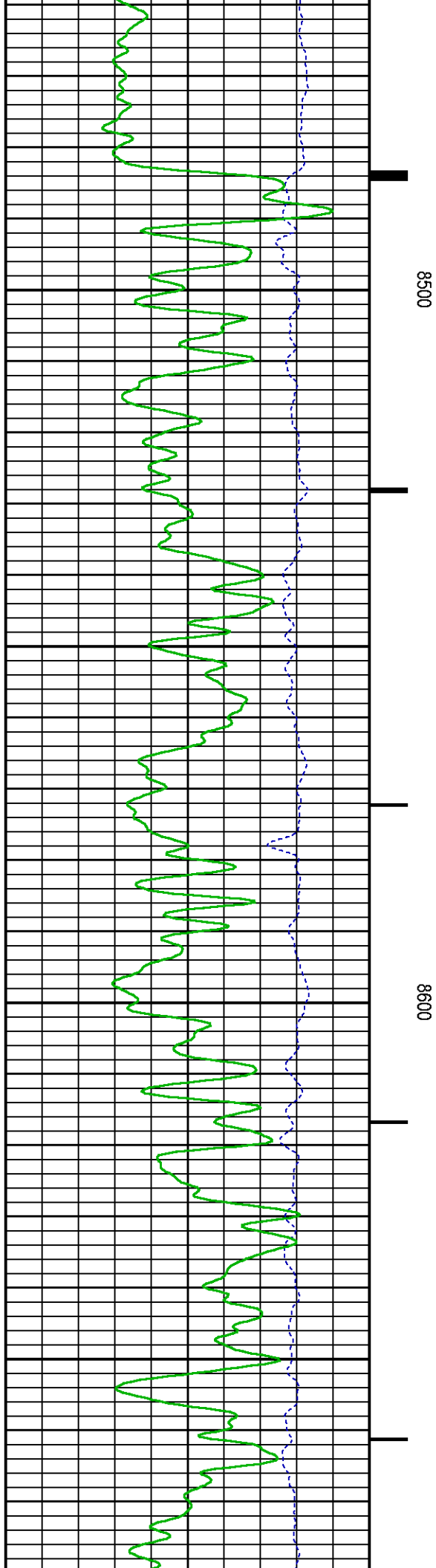


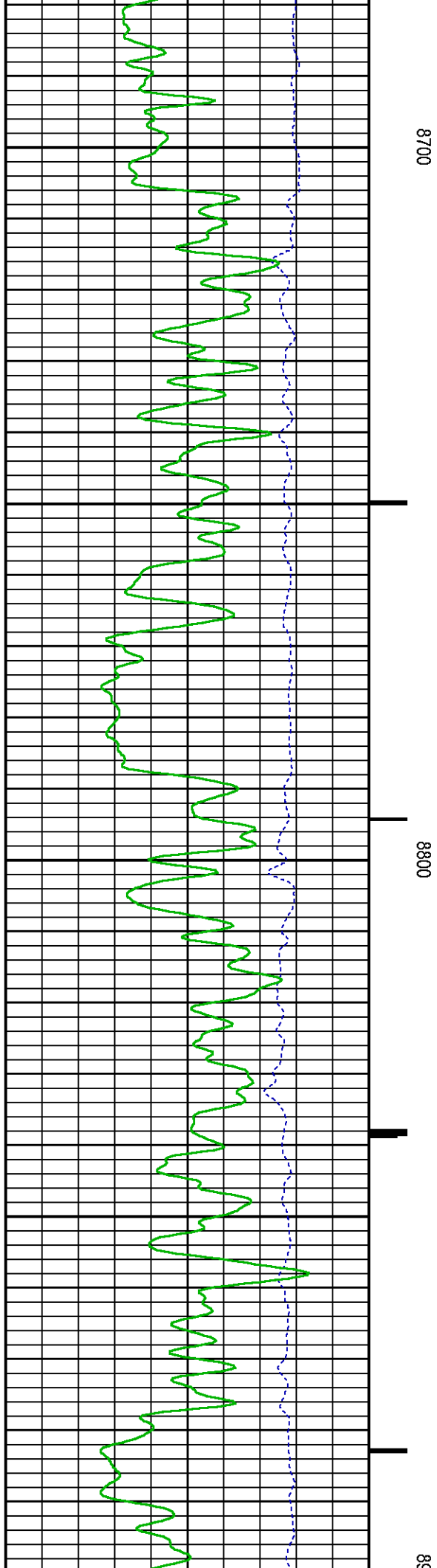
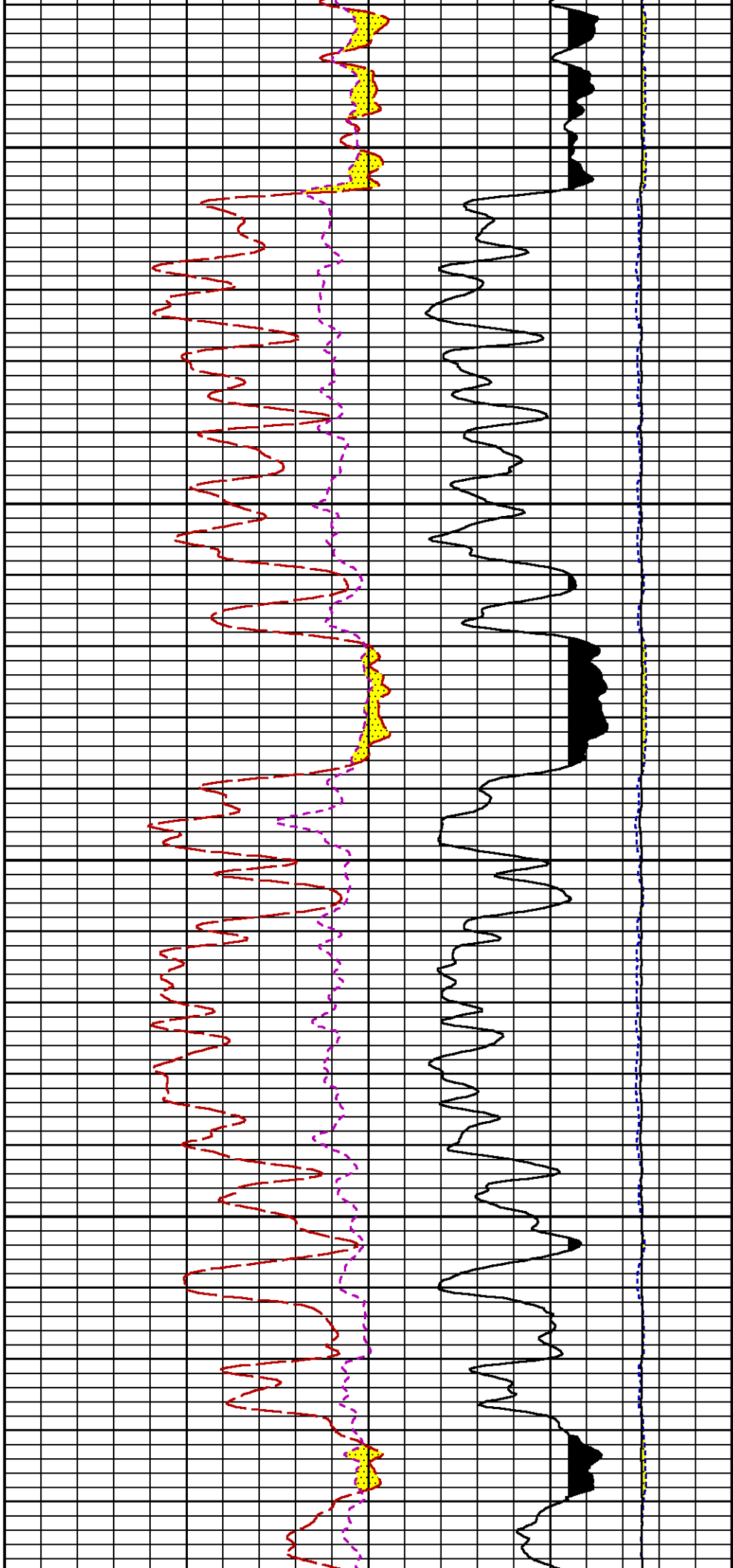
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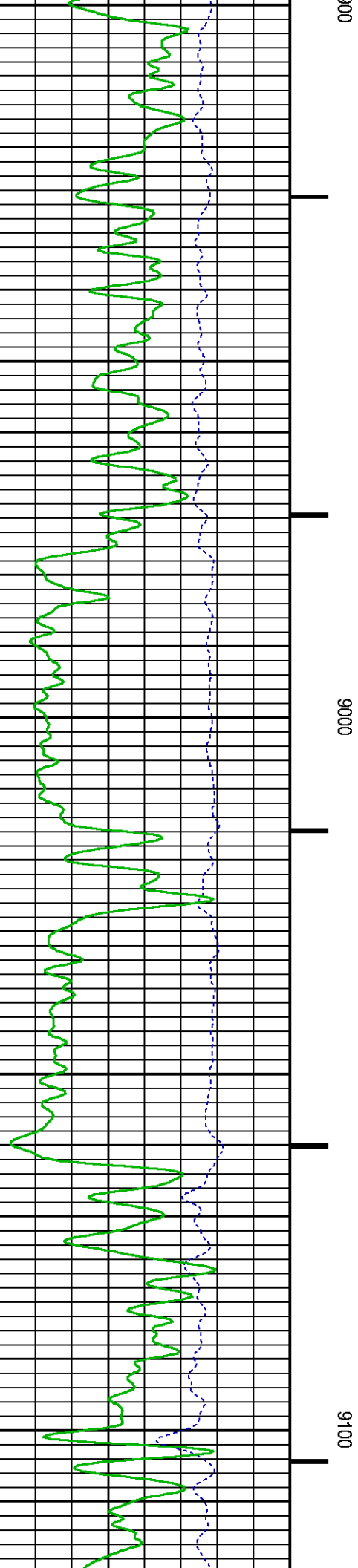
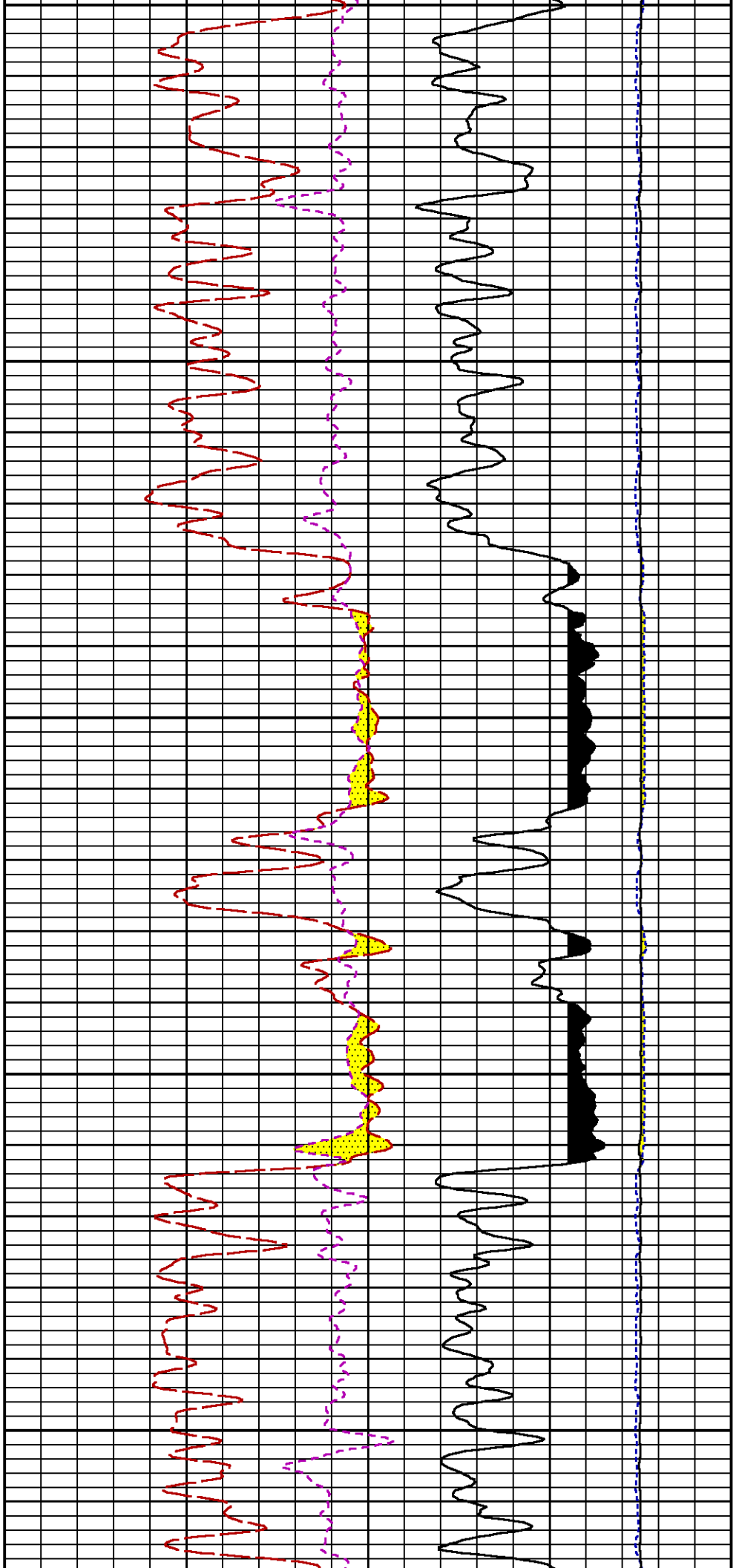
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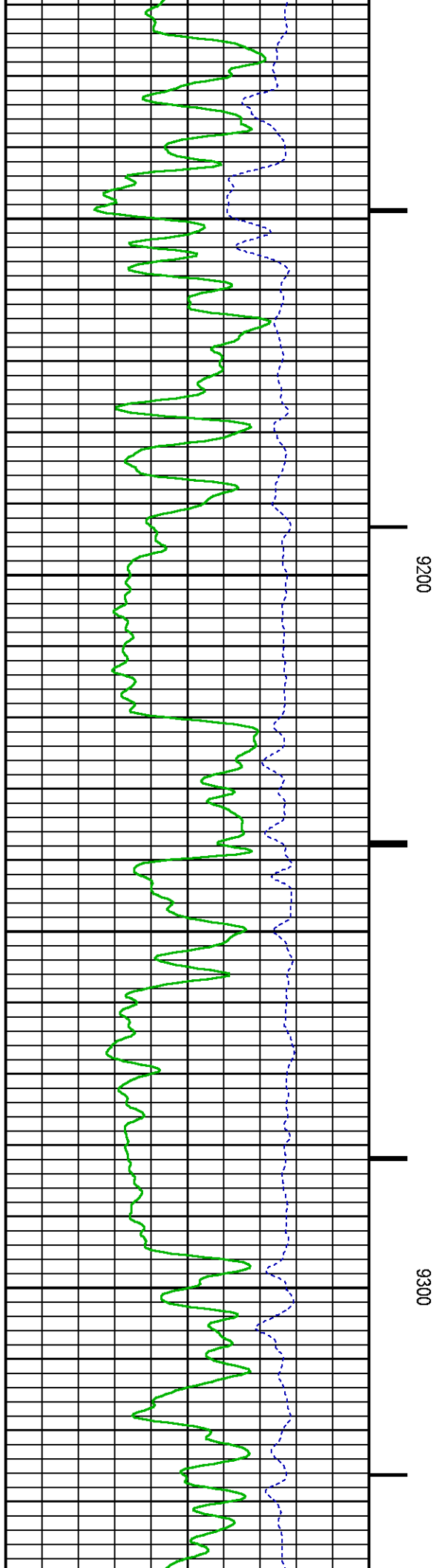
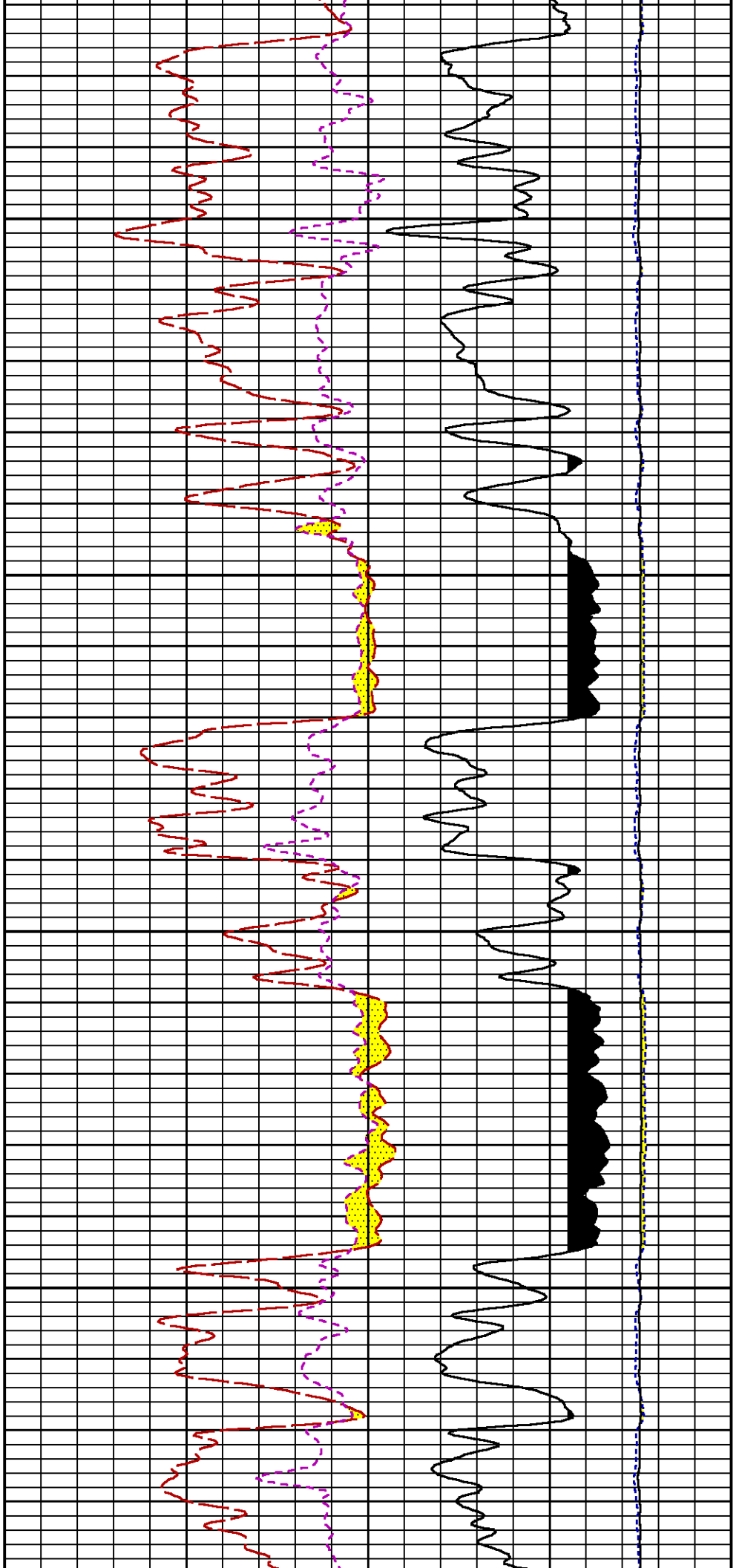


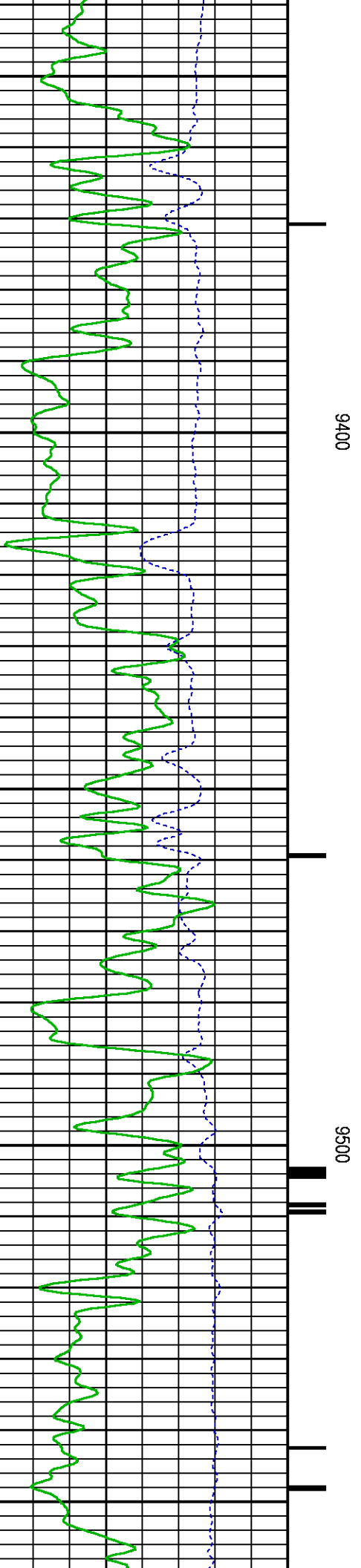
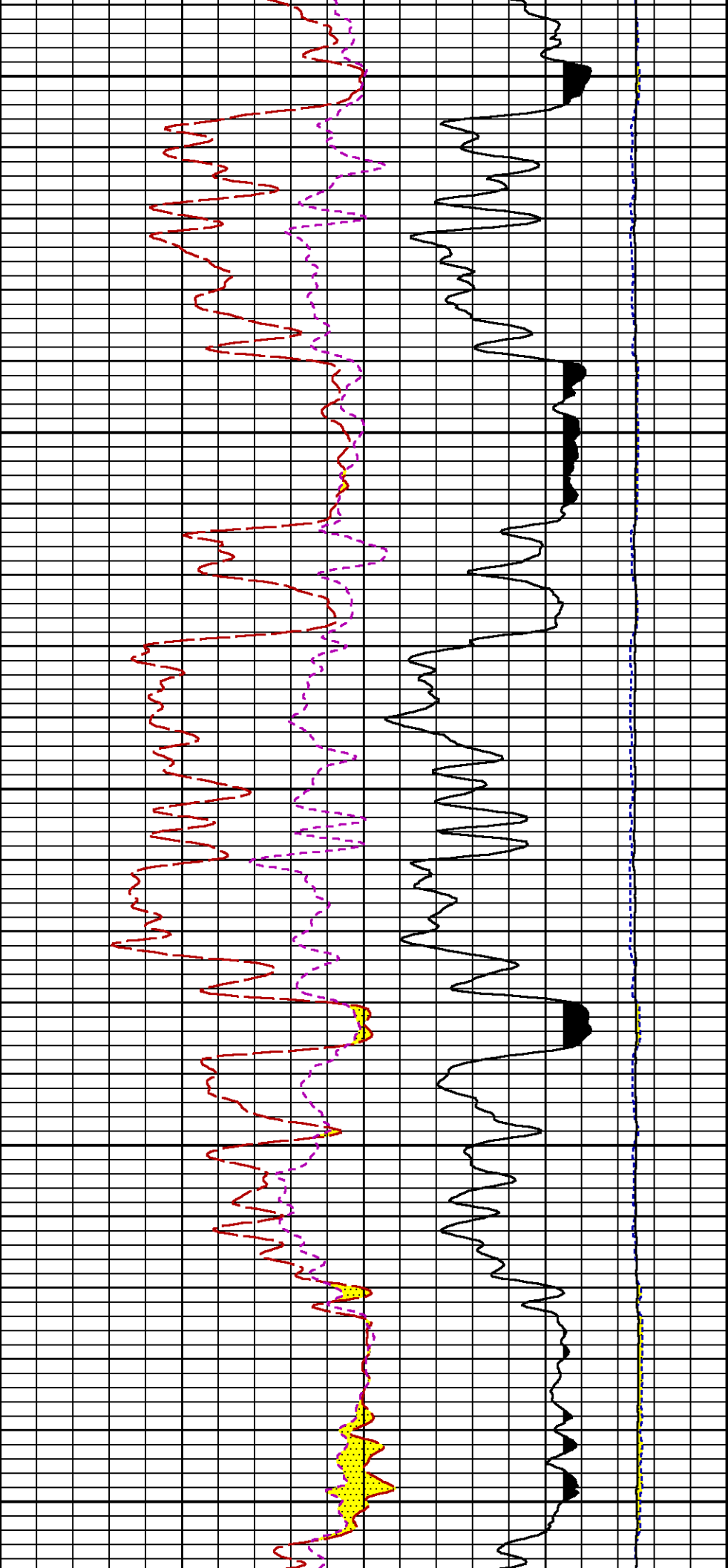


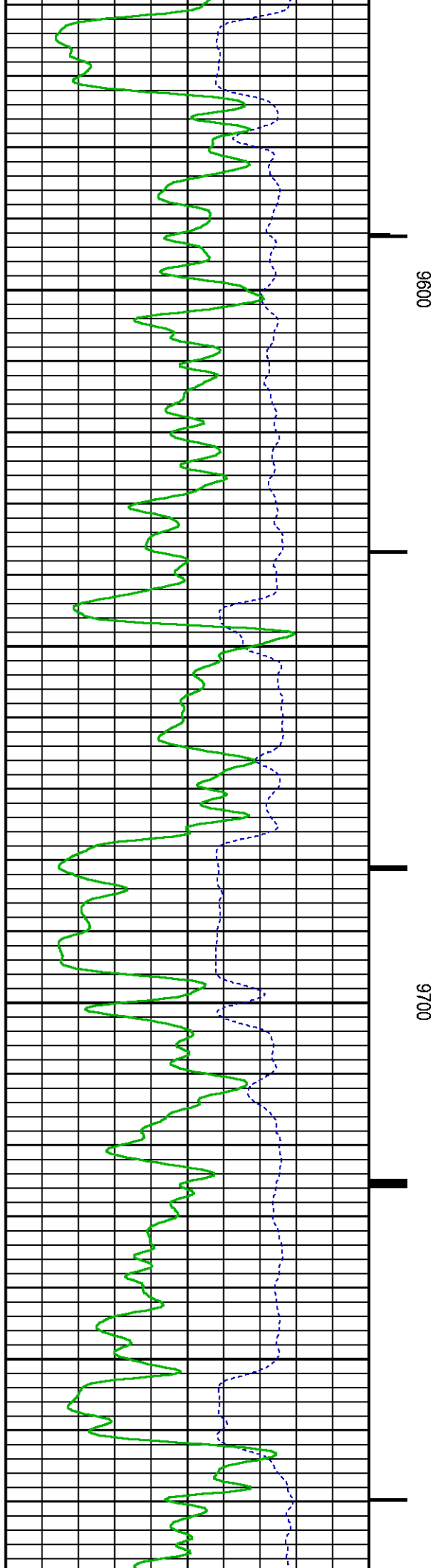
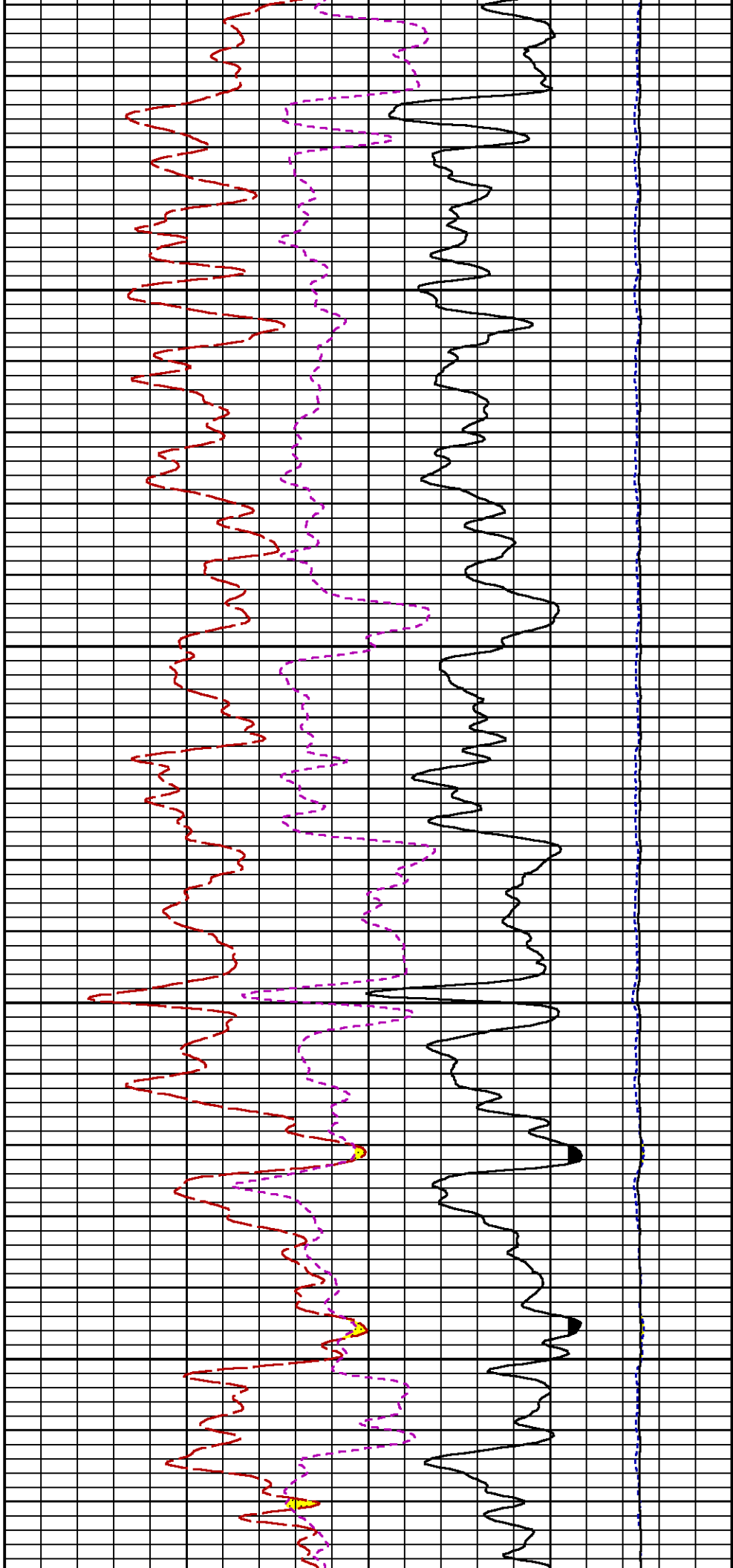


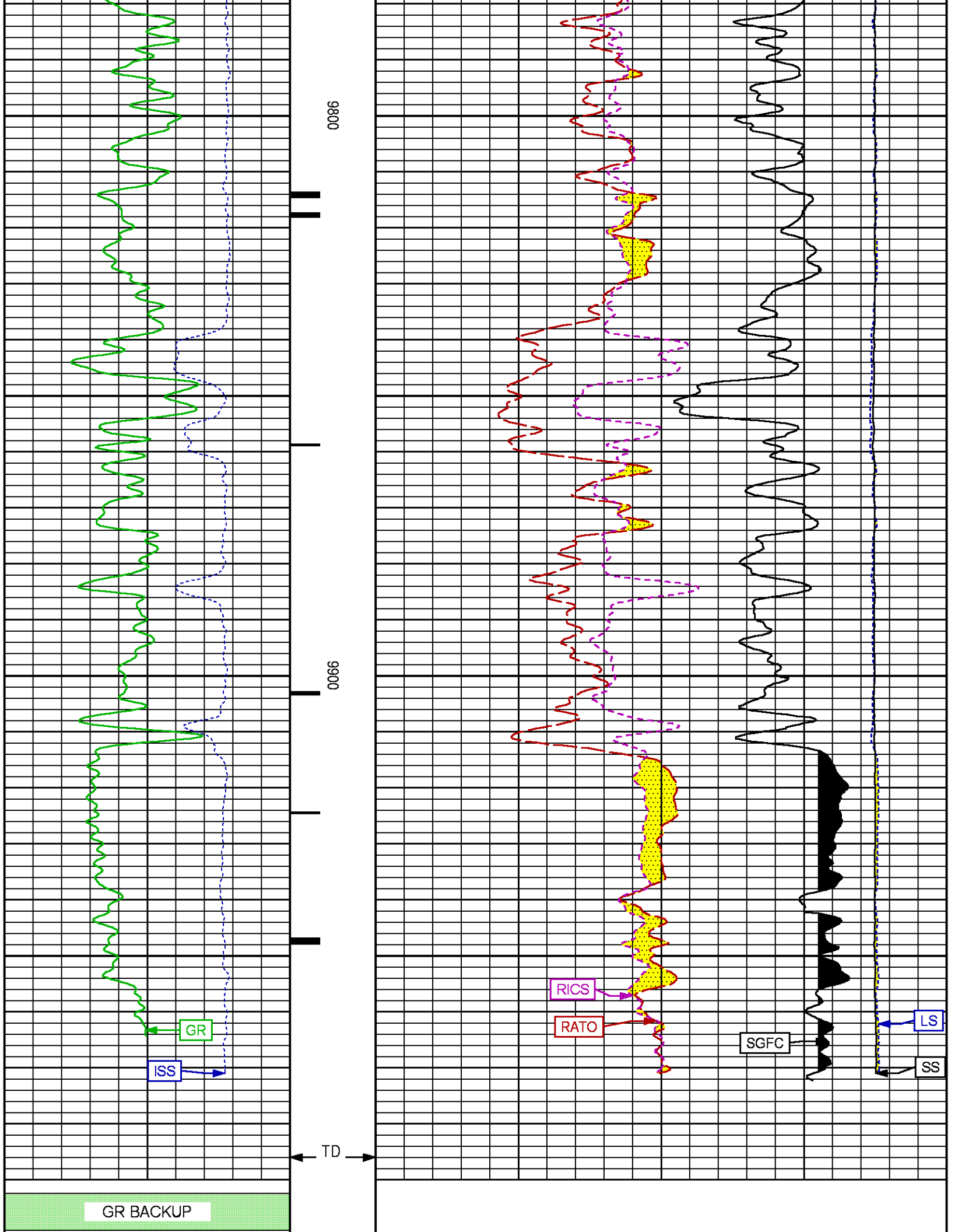


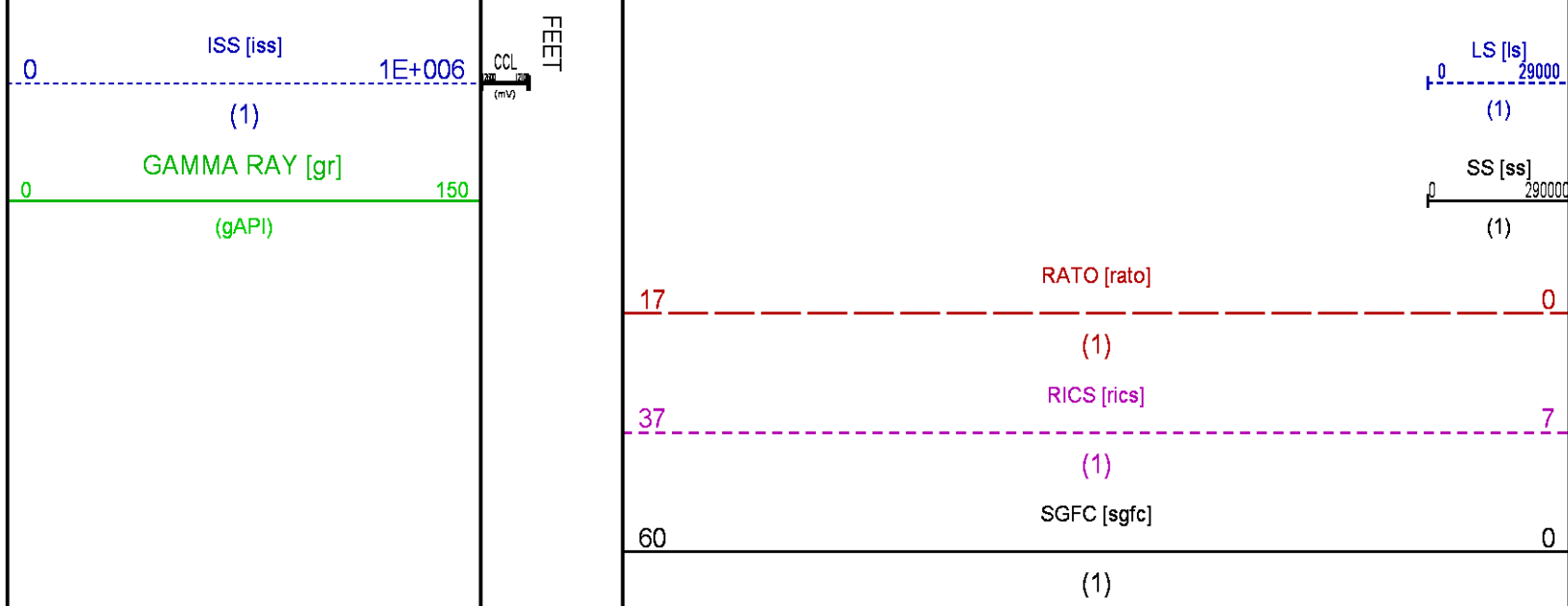












REPEAT SECTION PNC-3D MODE

ECLIPS 6.2wu1 PC-ECLIPS General Release Rel 6.2w Update 1 Fri Apr 25 10:54:53 Central Daylight Time 2014
Updates: 46 Patches: 5

Plotted: Sun Mar 08 11:19:51 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\095182\354h01.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 9122.250 ft BOTTOM DEPTH: 9464.113 ft

SYMMETRIC FILTER

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
GR	FILTER ()	medium (1)		TOP	BOTTOM

RPM PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (ft)	
PNC Parameters	BOREHOLE CONTENTS	FLUID		TOP	BOTTOM
	OPEN/CASED HOLE	CASED HOLE		"	"
	BOREHOLE SIZE	8.50	in	"	"
	CASING SIZE	4.50	in	"	"
	MATRIX	SANDSTONE		"	"
	CORRECTION BUFFER	11		"	"

CURVE DESCRIPTION REPORT

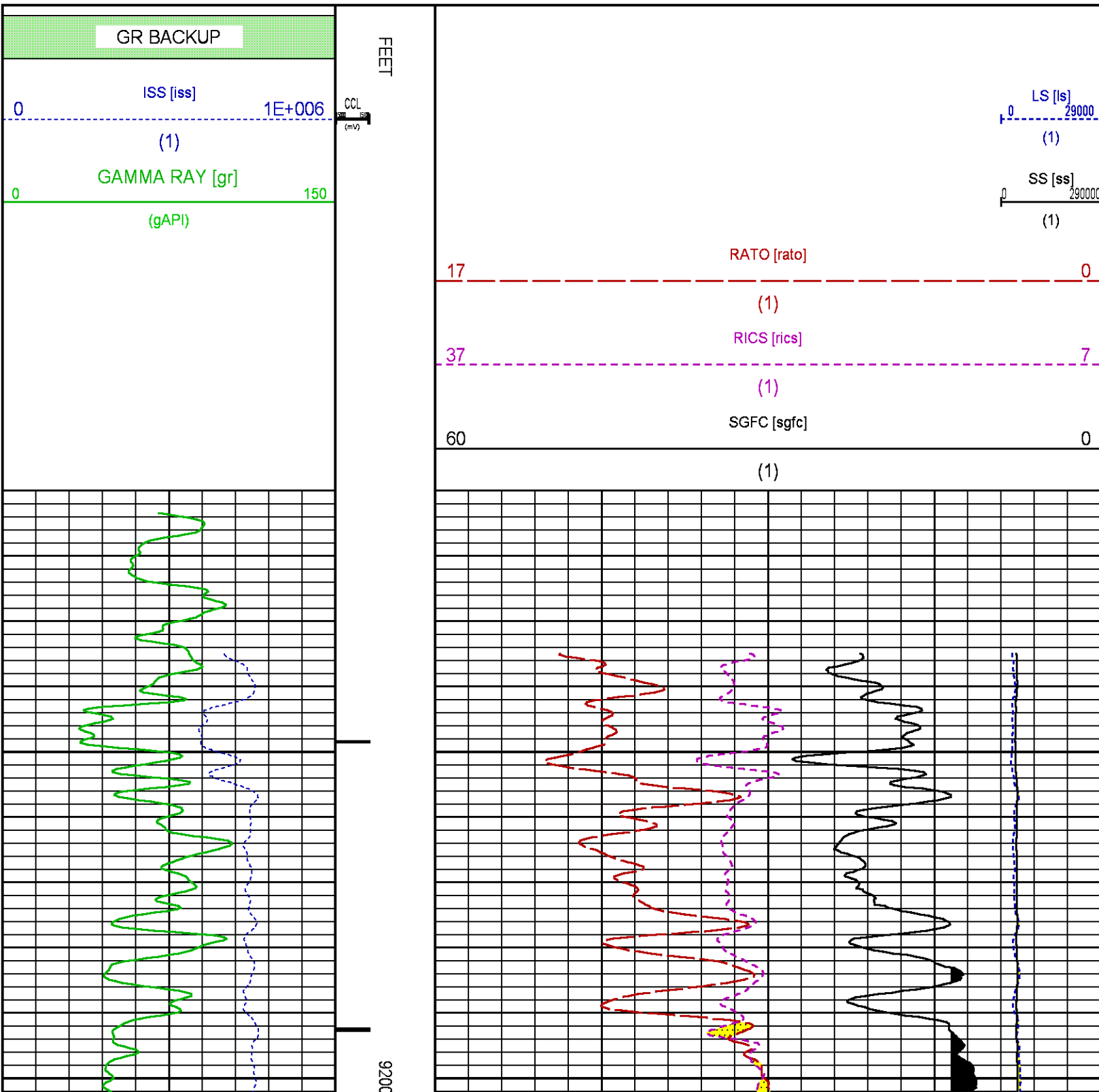
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	Mar 7 08:42:44 2015	CASING COLLAR LOCATOR
F1:GR	Mar 7 08:42:44 2015	GAMMA RAY
F1:ISS	Mar 7 08:42:44 2015	INELASTIC SHORT SPACE COUNT RATE
F1:LS	Mar 7 08:42:44 2015	LONG SPACE COUNT RATE
F1:RATO	Mar 7 08:42:44 2015	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	Mar 7 08:42:44 2015	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	Mar 7 08:42:44 2015	CORRECTED FORMATION SIGMA
F1:SS	Mar 7 08:42:44 2015	SHORT SPACE COUNT RATE

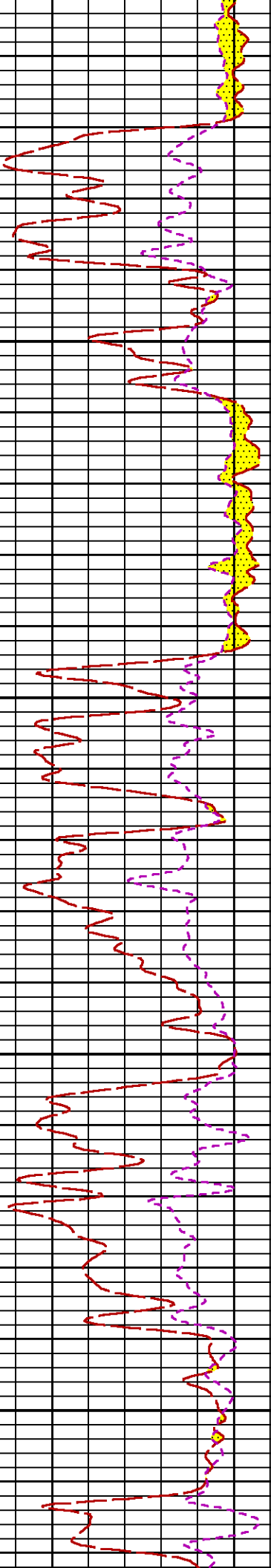
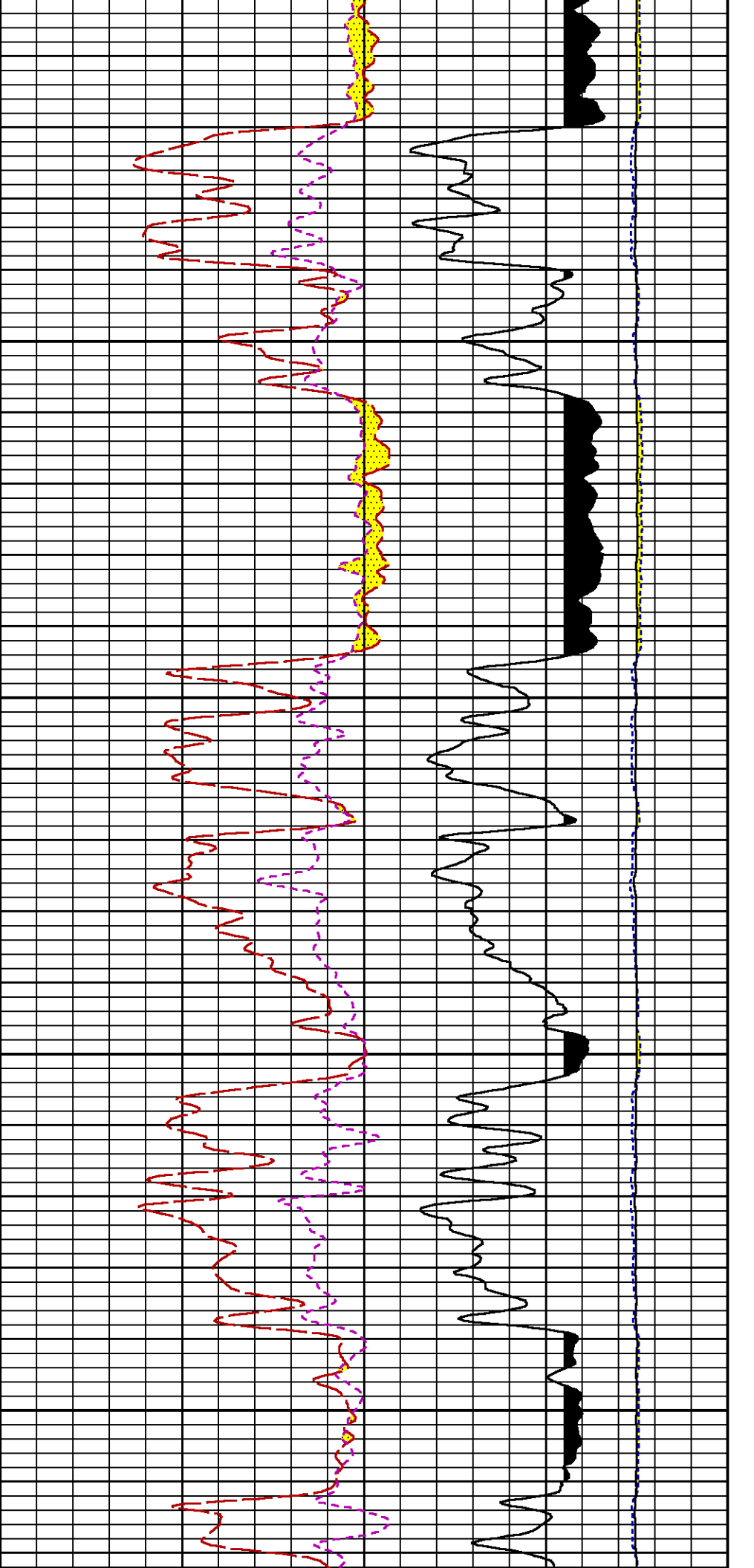
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	25.00	ISS	12.75	RATO	12.75	SGFC	12.75
GR	22.75	LS	12.75	RICS	12.75	SS	12.75

Presentation : BHUGHES-06627:C:\dat1a\095182\443_RPM_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 9110 - 9459.75 Feet

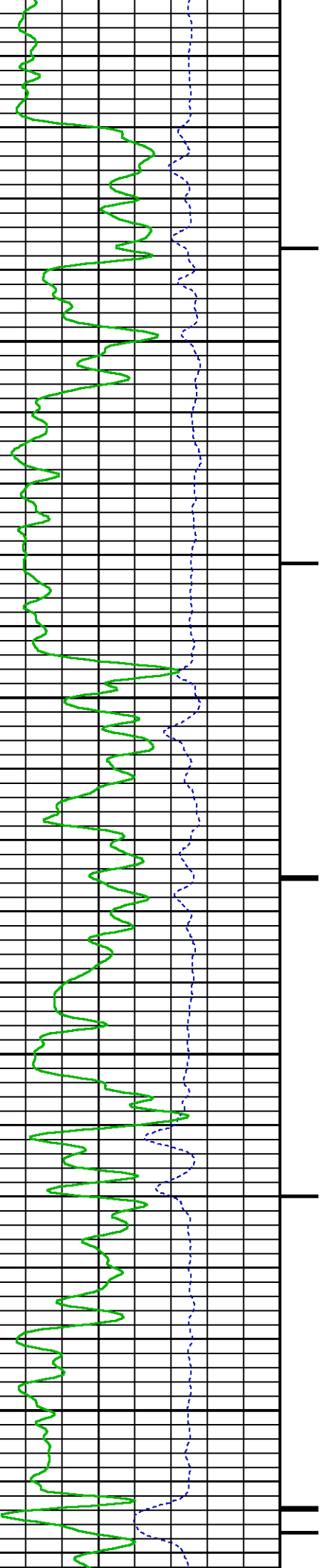
Data File 1 : F1 : BHUGHES-06627:C:\dat1a\095182\443_RPM_REPEAT.xtf
Created On : Mar 7 08:42:44 2015
Company : WPX ENERGY
Well : YOUNBERG RU 443-7
Field : RULISON
File Interval : 9109.25 - 9474.5 Feet
OCT : n354h

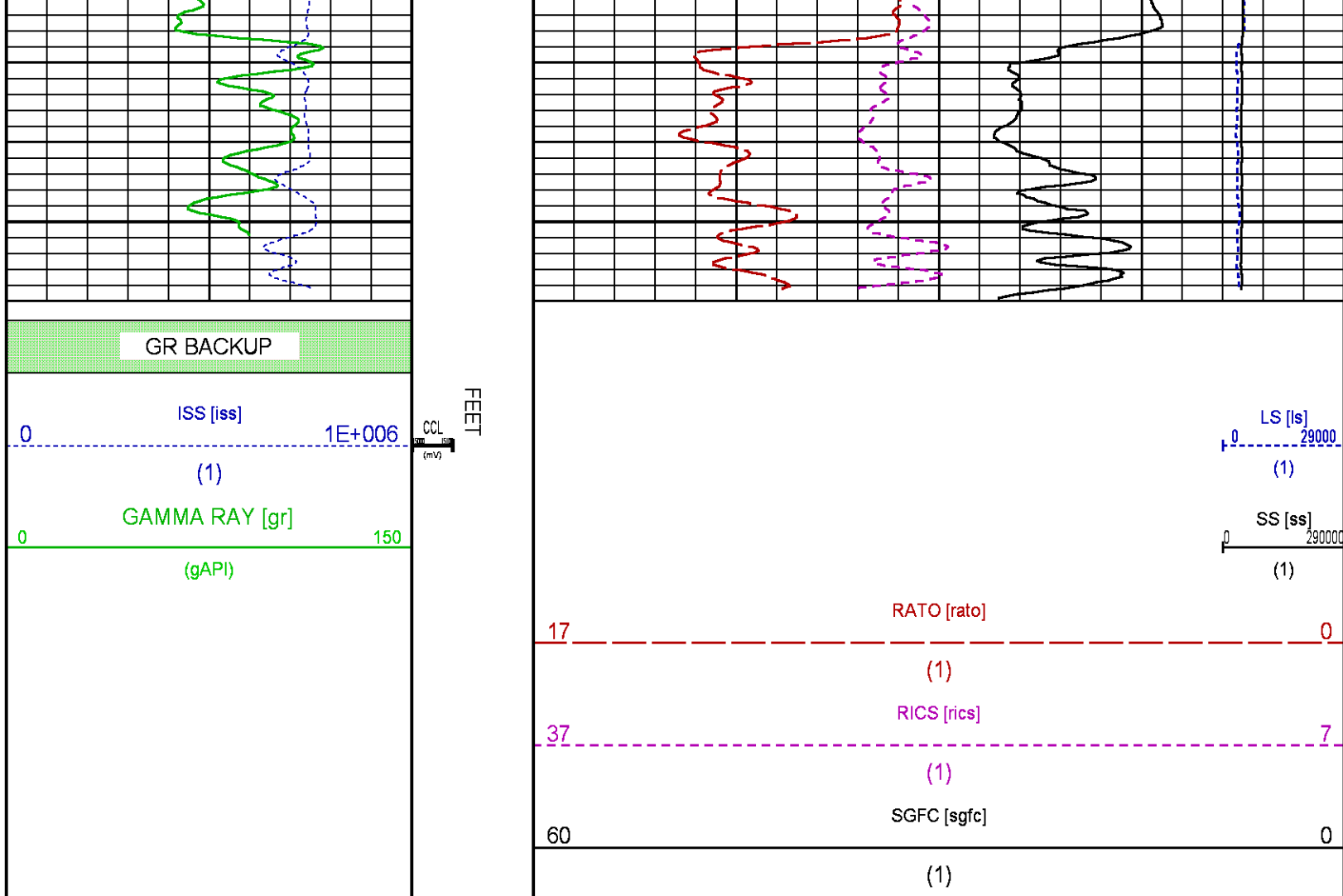




9300

9400





CALIBRATION / VERIFICATION SUMMARY

Source File: C:\dat1a\095181\354h.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 2812LA 10274382

DATE/TIME PERFORMED: Wed Mar 04 12:56:32 2015

UNIT #: 3885TD Z004271

CALB JIG #: 4702NK WA612

	BACKGROUND CALBRTR ON (cts/s)	CR DIFF (cts/s)	MULT	BACKGROUND CALBRTR ON (gAPI)	CALBRTR (gAPI)
GR	60.18	286.47	0.928	55.85	210

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 2812LA 10274382

DATE/TIME PERFORMED: Wed Mar 04 13:01:58 2015

TOOL ID: 8283PA 10213151

DATE/TIME PERFORMED: Wed Mar 04 11:53:36 2015

UNIT #: 3885TD Z004271

VERI JIG #: 4702NK WA612

	BACKGROUND CALBRTR ON		MULT	BACKGROUND CALBRTR ON		DIFF.
	(cts/s)	(cts/s)		(gAPI)	(gAPI)	(gAPI)
GR	61.24	283.22	0.928	56.84	262.84	206.00
						200.00 220.00

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL: 8283PA 10213151

DATE/TIME PERFORMED: Wed Mar 04 11:53:36 2015

UNIT: 3885TD Z004271

CALIBRATOR: 2437XB GJ

SOURCE: 8281AA 11803641

HOURS: 8281AA 268

	ISS	Mtr Vlt (V)	SS Gain	LS Gain	XLS Gain	EA Temp (degF)	Sync Delay (usec)	RCAL
Raw Data	808780	124	2258	2367	2449	105	7	0.9681
Interpolated	1300000	148	2240	2363	2430			

	ISS	BKS	BKL	BKX	SGA1	SDA1	SGA2	SDA2
Raw Data	808780	6352	1008	144	26.09	0.15	24.26	0.32
					25.35 26.40	0.00 0.20	23.60 24.80	0.00 0.40

	ISS	ILS	IXS	SS	SS2	LS	CSS	CLS
Raw Data	808780	168868	26825	89644	31904	8223	54257	13166
Fit Quality %		1.028	0.912	1.044	1.050	1.054	0.946	1.085

	ISS	RBOR	RIN ISS/ILS	RIN13 ISS/IXS	RICS ISS/CSS	RATO SS/LS	RTWO SS2/LS	RONE CSS/CLS
Raw Data	808780	1.43	4.79	30.16	14.91	10.91	3.88	4.12
		1.42 1.45	3.55 5.52	22.20 32.70	10.99 16.34	10.06 11.10	3.57 3.95	3.76 4.22
Fit Quality %		0.078	0.134	0.201	0.133	0.038	0.042	0.060
Reduced	1415035	1.43	4.80	30.21	14.94	10.91	3.88	4.12
		1.42 1.45	4.33 5.52	27.60 32.70	13.70 16.34	10.06 11.10	3.57 3.95	3.76 4.22

INSTRUMENT CONFIGURATION

A3 CABLEHEAD

Diameter : 1.37"

PCM POWER SUPPLY

Diameter : 1.70"
Length : 3.86'
Weight : 18 lbs
Series : 8250EA
Mnemonic : PCM

TELEMETRY / CCL

Diameter : 1.70"
Length : 4.46'
Weight : 20 lbs
Series : 8248ED
Mnemonic : PCM
Measure Point: 1.00': CCL MP

SONDEX GAMMA RAY

Diameter : 1.69"
Length : 2.17'
Weight : 11 lbs
Series : 2812LA
Mnemonic : GR
Measure Point: 0.63': GR MP

RPM ELECTRONICS

Diameter : 1.70"
Length : 4.48'
Weight : 16 lbs
Series : 8281EA
Mnemonic : RPM

RPM C DETECTOR SECTION

Diameter : 1.70"
Length : 9.40'
Weight : 41 lbs
Series : 8283PA
Mnemonic : RPM
Measure Point: 5.45': XLS DETECTOR
Measure Point: 5.04': LS DETECTOR
Measure Point: 4.79': SS DETECTOR

33.24'

CCL MP 25.19'

GR MP 22.64'

XLS DETECTOR 13.58'
LS DETECTOR 13.16'
SS DETECTOR 12.91'

RPM SOURCE SECTION

Diameter : 1.70"
 Length : 4.70'
 Weight : 18 lbs
 Series : 8281FA
 Mnemonic : RPM

TEMPERATURE / PRESSURE

Diameter : 1.70"
 Length : 3.30'
 Weight : 13 lbs
 Series : 8255XA
 Mnemonic : SRPL
 Measure Point: 1.52': TEMP MP


TEMP MP
 PRES MP

1.65'

BULL PLUG 1 11/16

0.00'

TOTAL LENGTH: 33.24'
 TOTAL WEIGHT: 140 lbs
 MAX DIAMETER: 0'1.70"

	COMPANY	WPX ENERGY		FILE NO:	CH095182
	WELL	YOUNBERG RU 443-7		API NO:	05045225210000
	FIELD	RULISON	STATE	COLORADO	
	COUNTY	GARFIELD			
LOCATION:	SHL: 1168' FSL & 1181' FEL BHL: 1568' FSL & 737' FEL (NESE)		ELEVATIONS:		7 7S 93W RU 44-7 PAD NABORS 576
SEC 7	TWP 7S	RGE 93W	DATE		07-Mar-2015