



FILE NO: CH132060	COMPANY LARAMIE ENERGY LLC
API NO: 05077104710000	WELL BRUTON 30-14E
	FIELD VEGA
	COUNTY MESA STATE COLORADO

Version	LOCATION: SHL: 2606' FNL & 1874' FEL BHL: 1867' FSL & 1333' FEL SEC 30 TWP 9S RGE 93W	OTHER SERVICES RAL
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PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM	GL KB KB KB	ELEVATION 30 FT ABOVE P.D.	ELEVATIONS: KB 7673 FT DF GL 7643 FT
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DATE	03-Feb-2018
RUN	1
TRIP	1
SERVICE ORDER	US132060
DEPTH DRILLER	7795 FT
DEPTH LOGGER	7767 FT
BOTTOM LOGGED INTERVAL	7767 FT
TOP LOGGED INTERVAL	2481 FT
TIME STARTED	9:00
TIME FINISHED	16:00
OPERATOR RIG TIME	7 HOURS
TYPE OF FLUID IN HOLE	WATER
FLUID DENSITY	NA
FLUID SALINITY	NA
FLUID LEVEL	54 FT
LOGGED CEMENT TOP	1040 FT
WELLHEAD PRESSURE	0 PSI
MAXIMUM HOLE DEVIATION	NA
NOMINAL LOGGING SPEED	10 FMIN
MAX. RECORDED TEMP.	236 DEGF
REFERENCE LOG	BAKER HUGHES OPEN HOLE
REFERENCE LOG DATE	13-Dec-2017
EQUIP. NO.	ML-4291
LOCATION	GRAND JCT.
RECORDED BY	T. NEWELL
WITNESSED BY	NA

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.

REMARKS

RUN 1 TRIP 1: ****2 OPERATIONS IN WELLBORE****

OPERATION 2: RPM//GR/CCL RUN IN PNC-3D MODE

SJ: 5874' - 5894'

SJ: 6974' - 6994'

EQUIPMENT DATA

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	PCM	8250EA	11145584	FREE
1	1	TEL/CCL	8248ED	10183585	FREE
1	1	GR	8262XA	10317216	FREE
1	1	RPM	8281EA	10387162	FREE
1	1	RPM	8283PA	10184883	FREE
1	1	RPM	8281FA	10460082	FREE
1	1	TEMP	8255XA	11774568	FREE

RPM MAIN PASS

ECLIPS 7.0w PC-ECLIPS General Release Rel 7.0w Fri Jun 09 11:02:06 Central Daylight Time 2017
Patches: 2

Plotted: Sat Feb 03 22:42:12 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\Bruton_30-14E\p353h02.prm
LOGGING MODE: DEPTH DIRECTION: UP
TOP DEPTH: 2456.603 ft BOTTOM DEPTH: 7769.552 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	7.88	in	"	"
	LARGEST CASING OD	4.50	in	"	"
	MATRIX	SANDSTONE		"	"

CURVE DESCRIPTION REPORT

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	N/A	CASING COLLAR LOCATOR
F1:GR	N/A	GAMMA RAY
F1:ISS	N/A	INELASTIC SHORT SPACE COUNT RATE
F1:LS	N/A	LONG SPACE COUNT RATE
F1:RATO	N/A	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	N/A	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	N/A	BOREHOLE AND DIFFUSION CORRECTED SIGMA
F1:SS	N/A	SHORT SPACE COUNT RATE

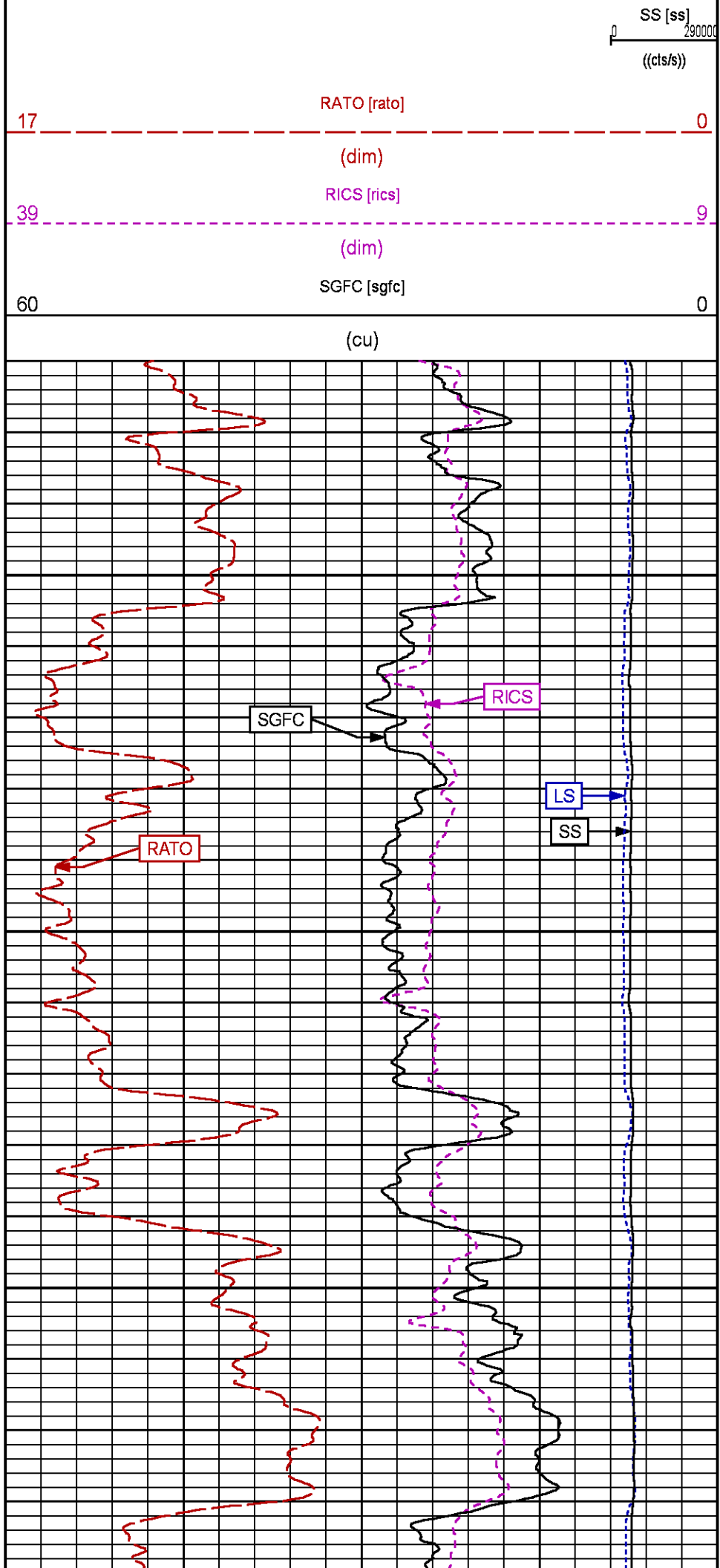
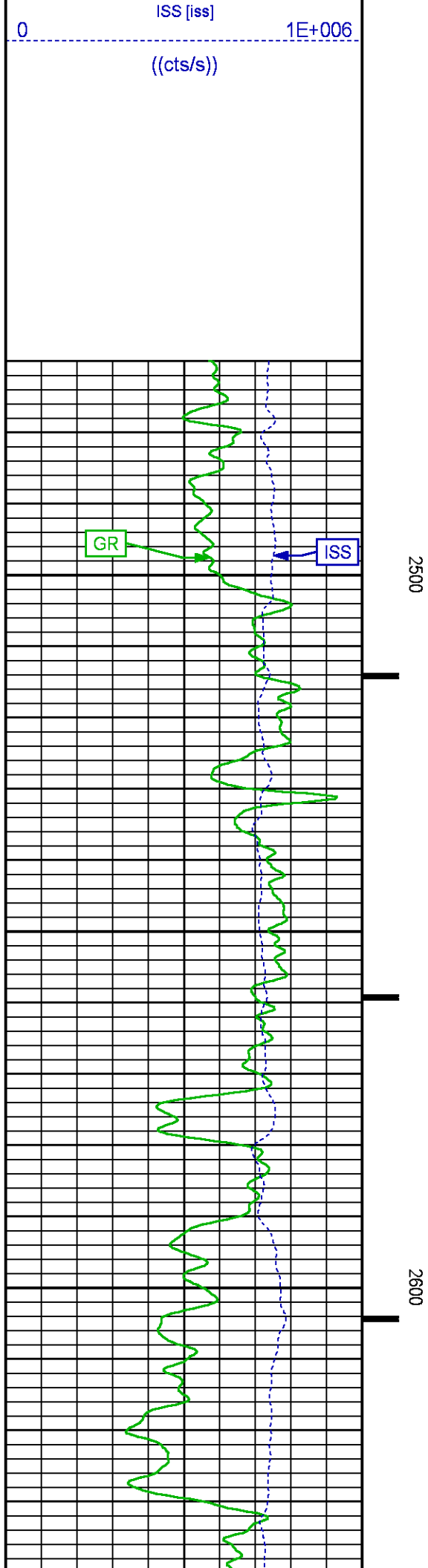
CURVE MEASURE POINT OFFSET

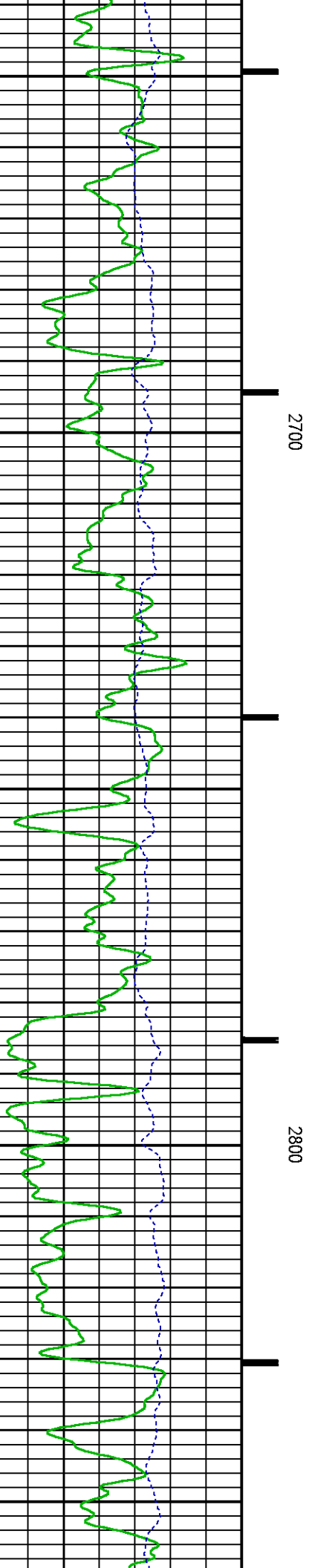
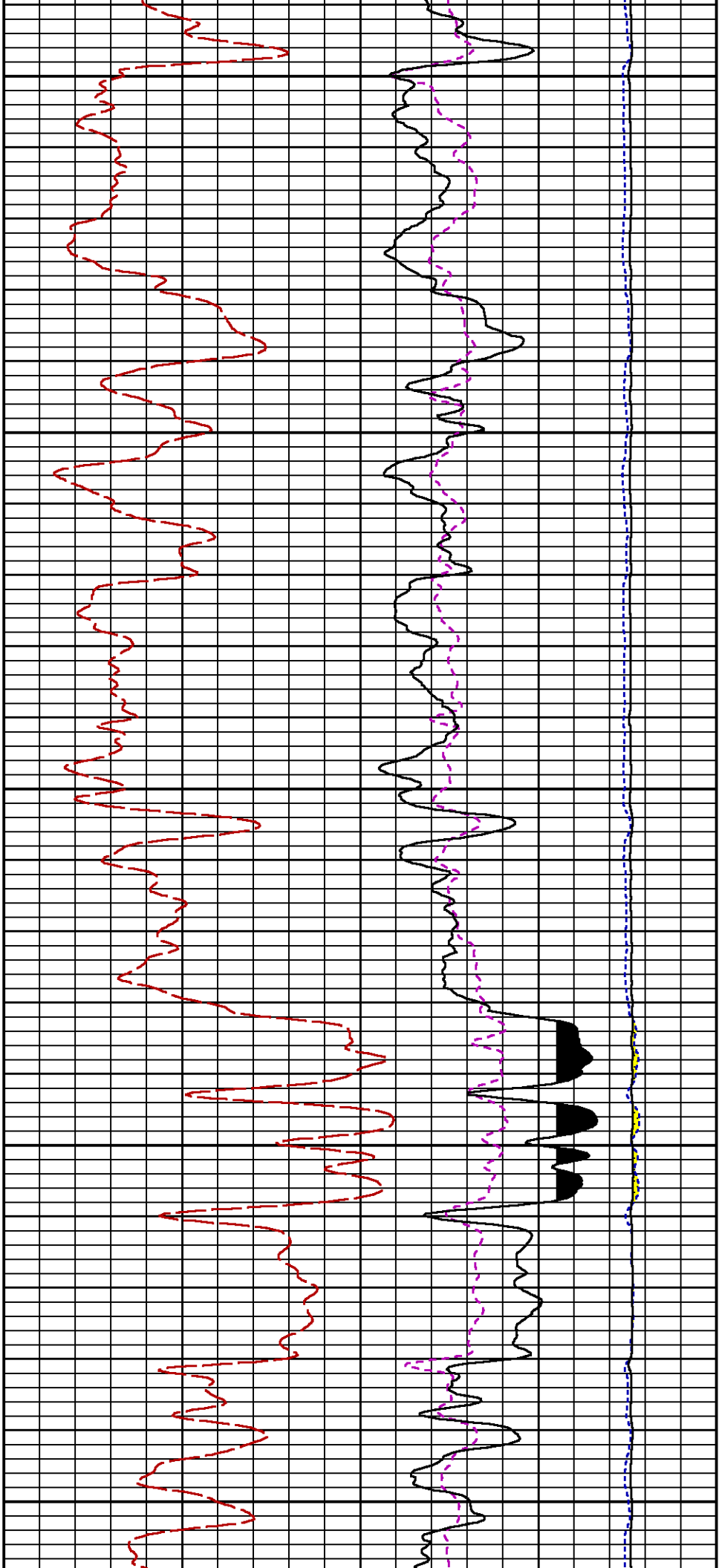
CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	-26.00	ISS	-12.75	RATO	-12.75	SGFC	-12.75
GR	-23.00	LS	-12.75	RICS	-12.75	SS	-12.75

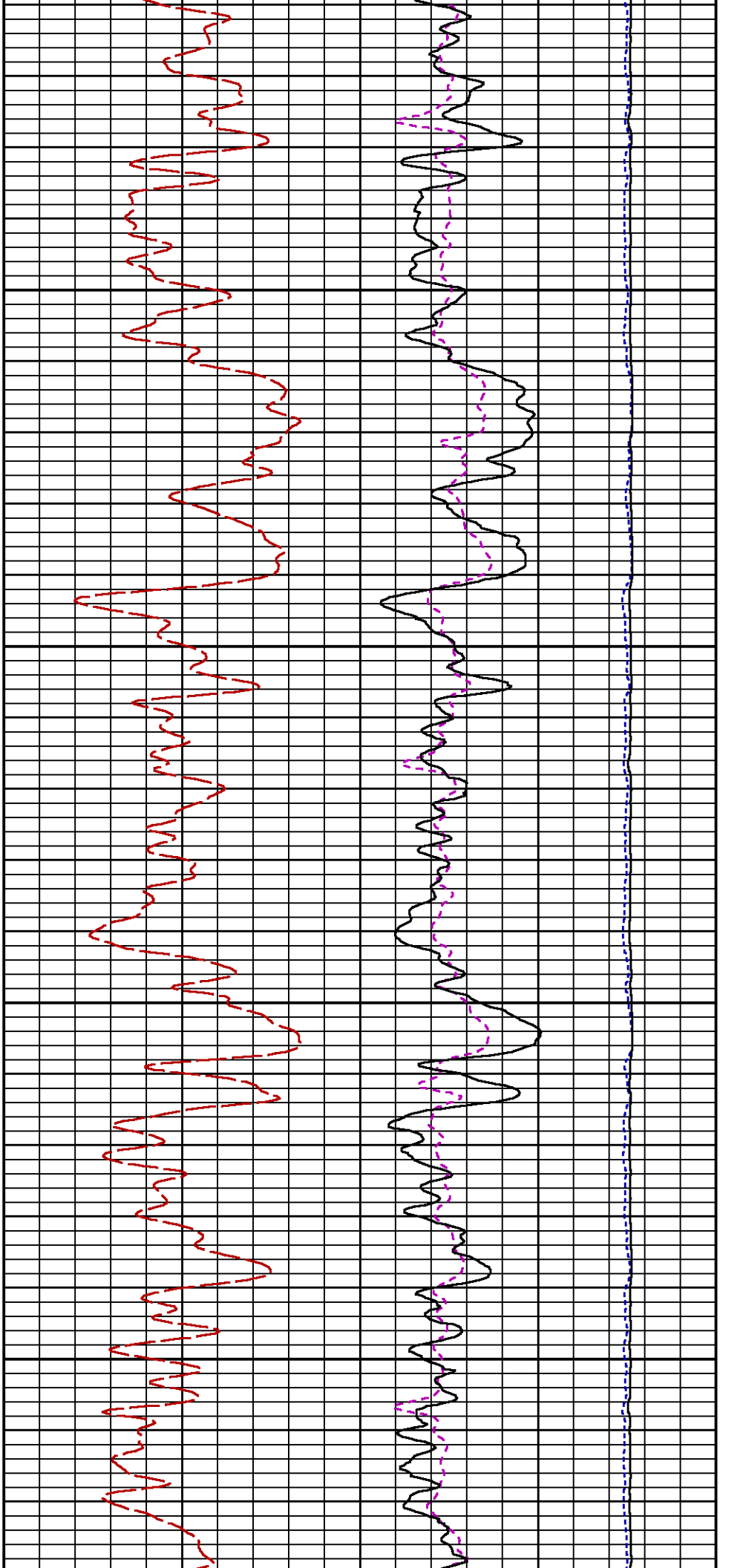
Presentation : BHI4WM4ZW1:C:\dat1a\Bruton_30-14E\30-14E_RPM_MAIN.fvpdf [5"/100" Scale]
Plot Interval : 2470 - 7780 Feet

Data File 1 : F1 : BHI4WM4ZW1:C:\dat1a\Bruton_30-14E\30-14E_RPM_MAIN.xtf
Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-14E
Field : VEGA
File Interval : 2440.25 - 7775 Feet
OCT : p353h



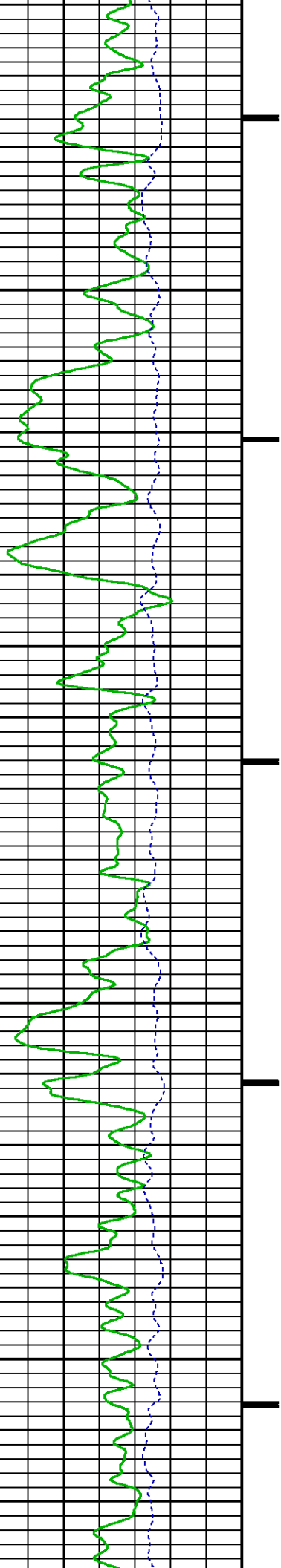


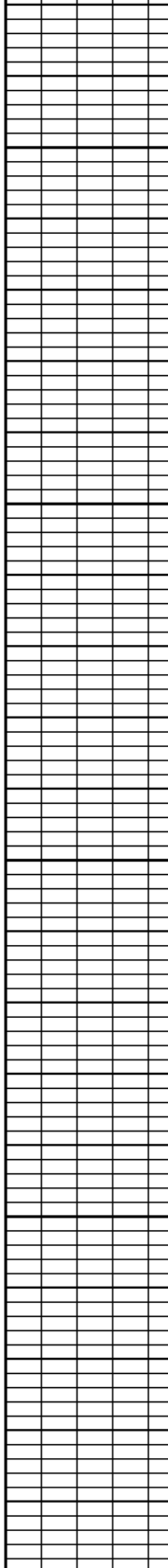
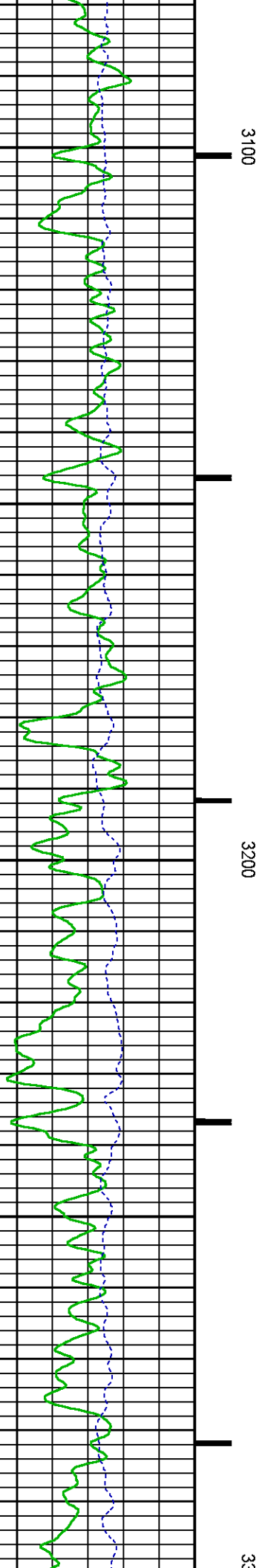
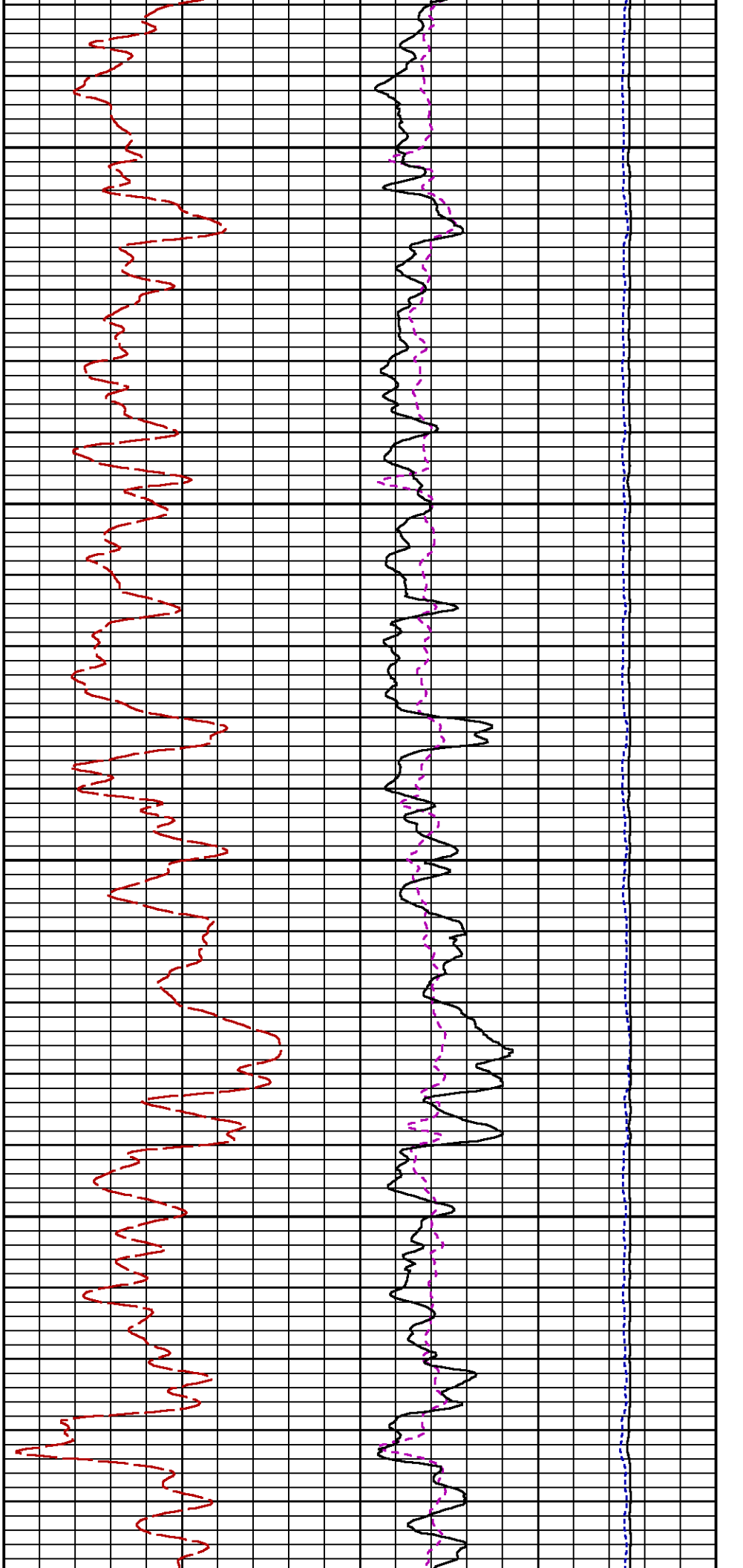


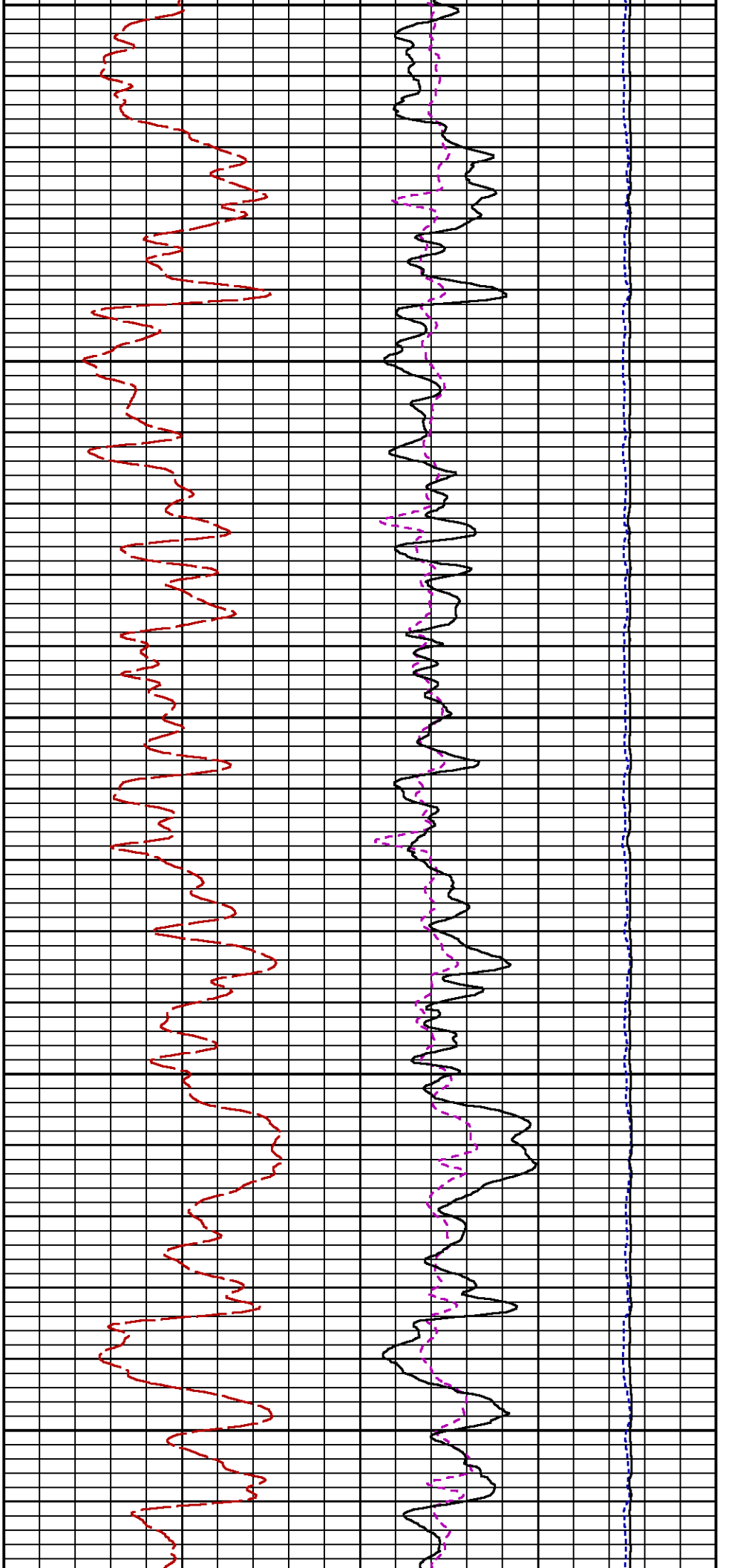


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3000



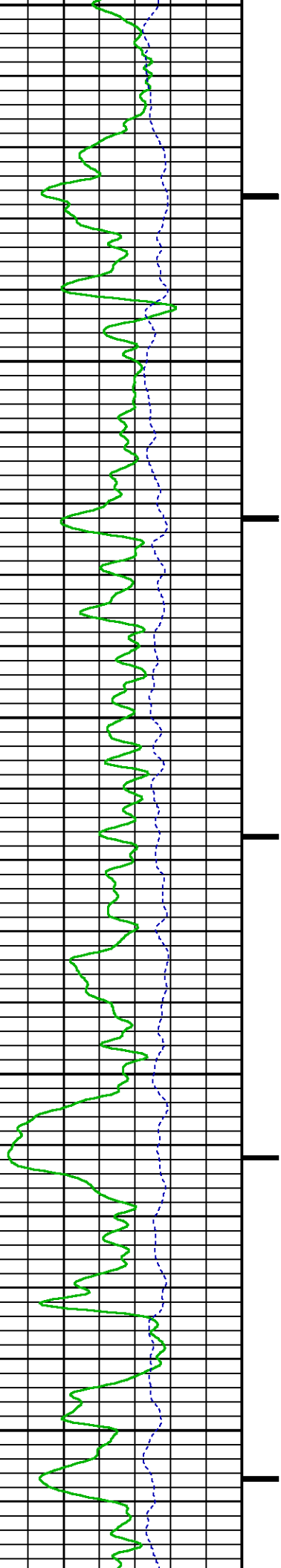


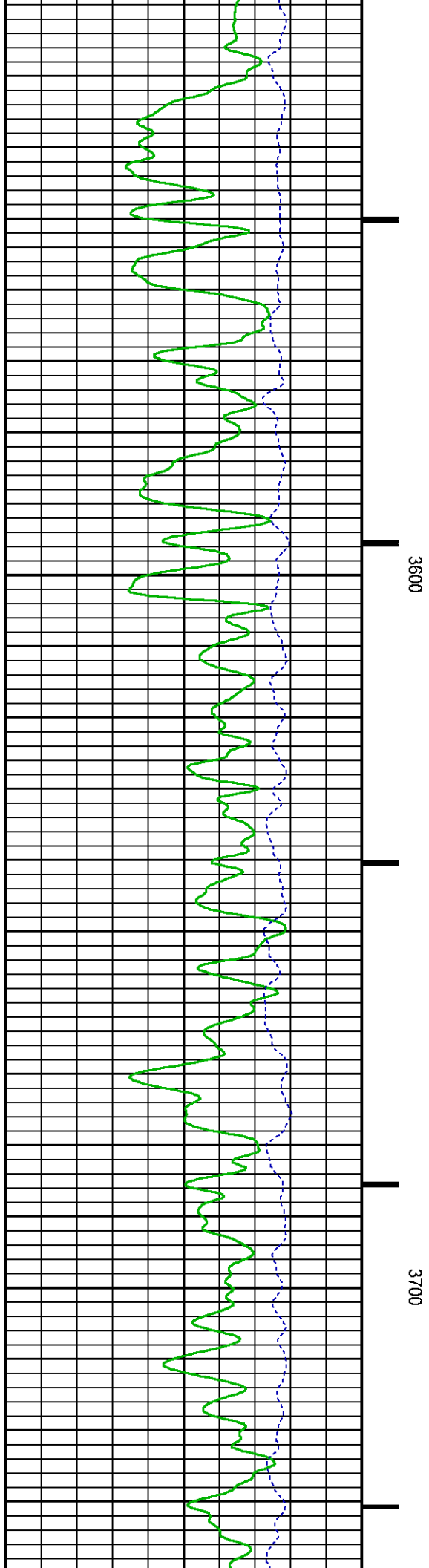
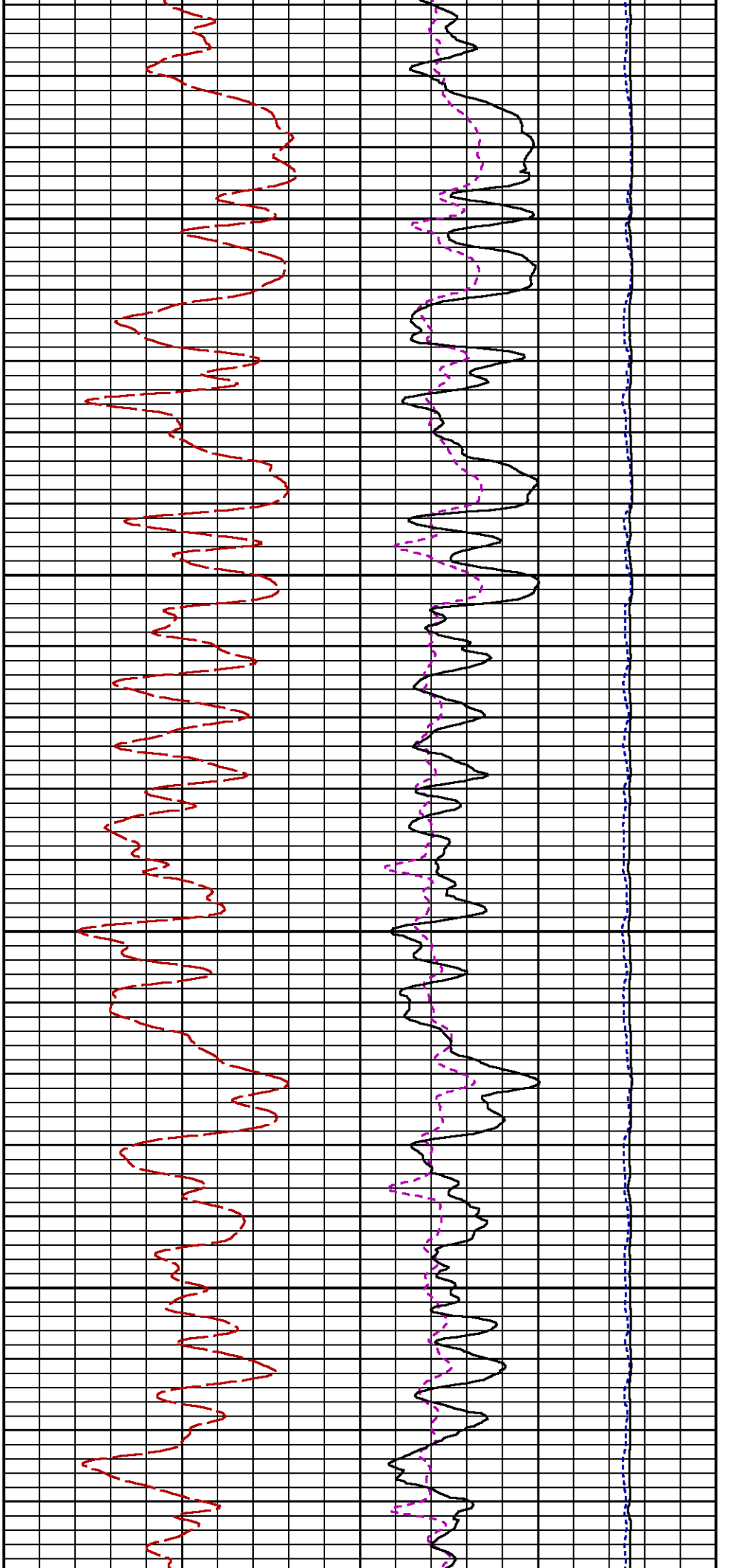


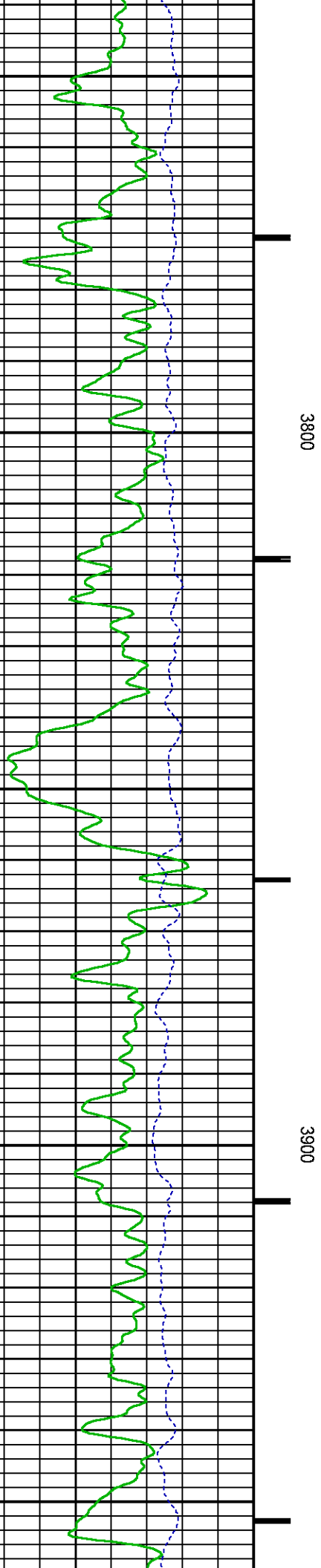
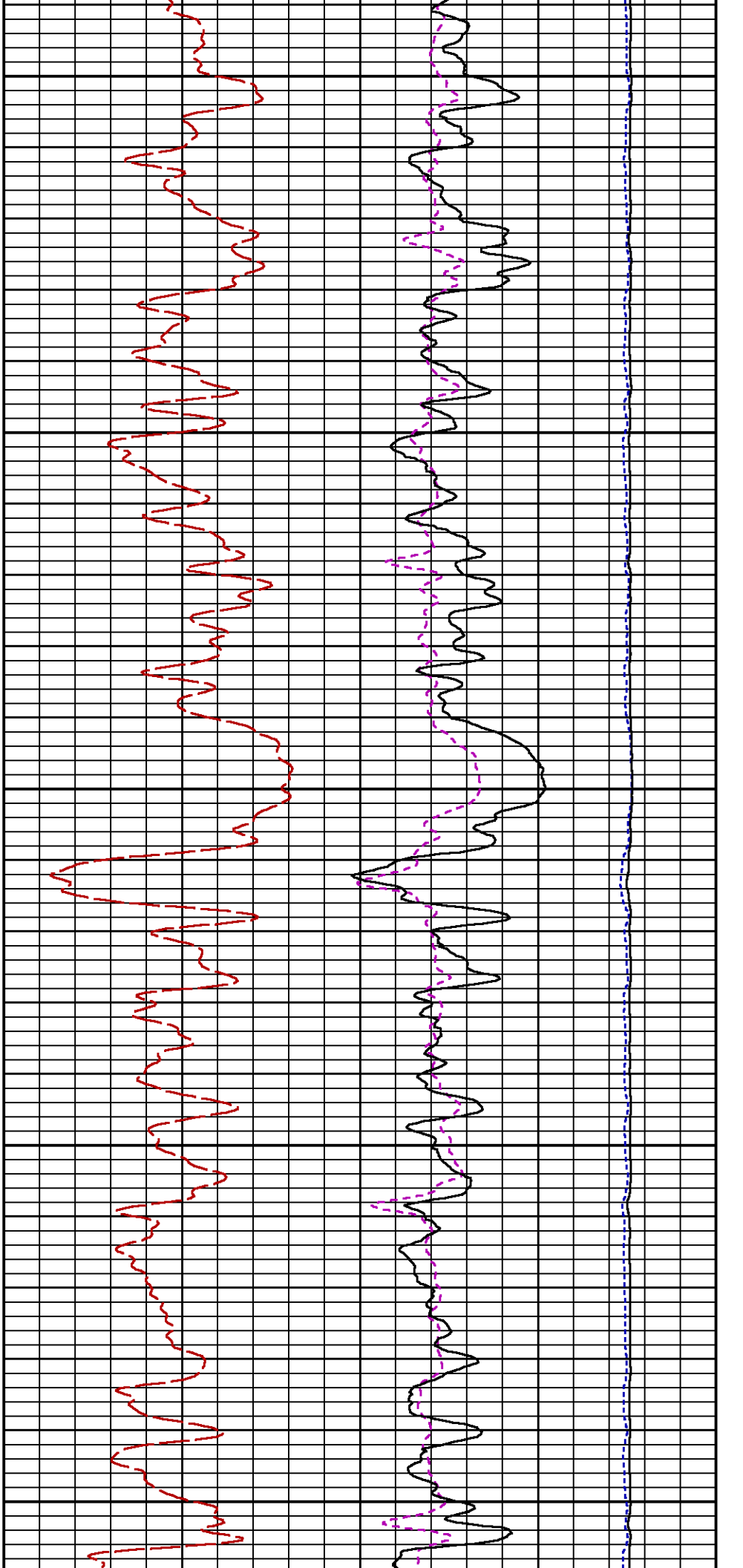
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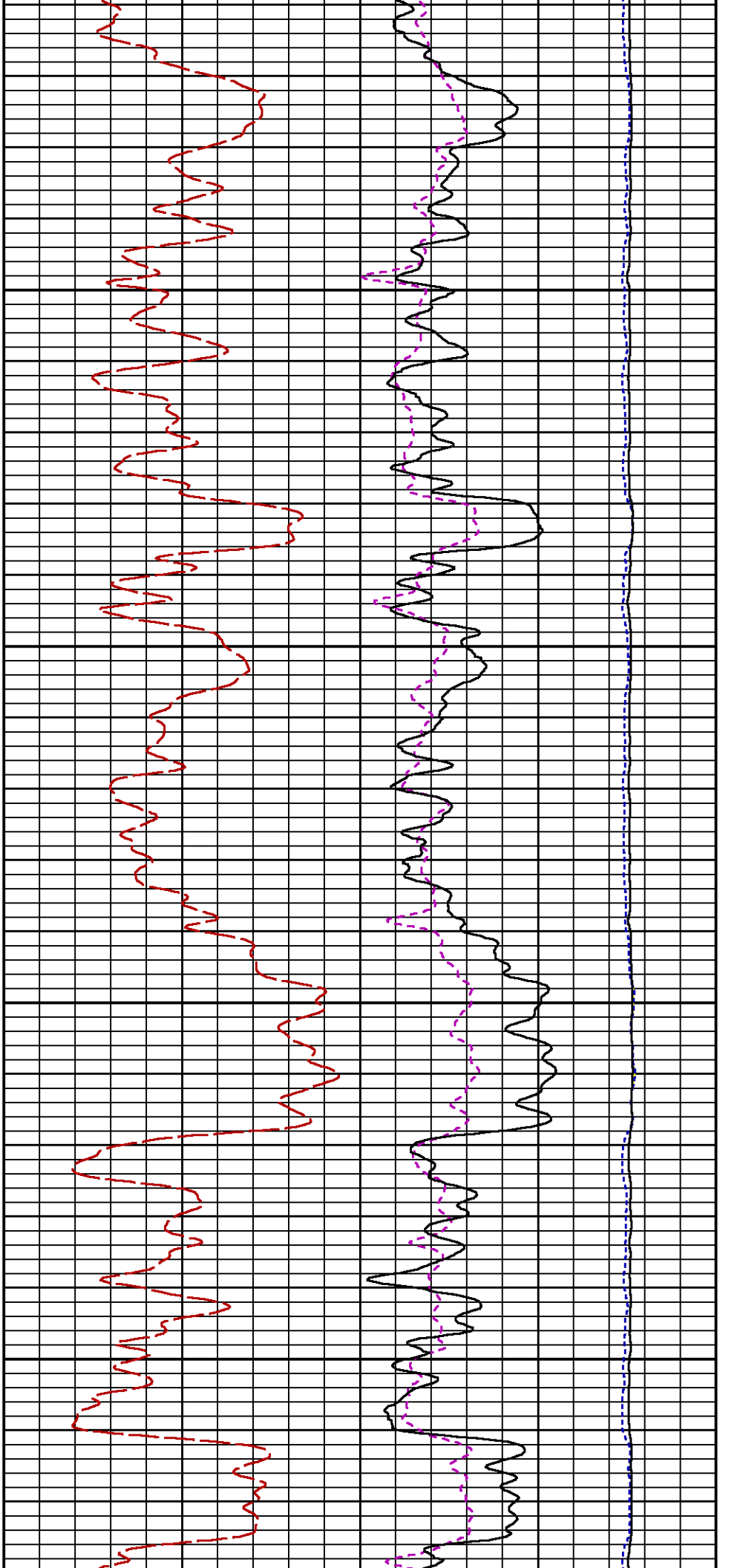
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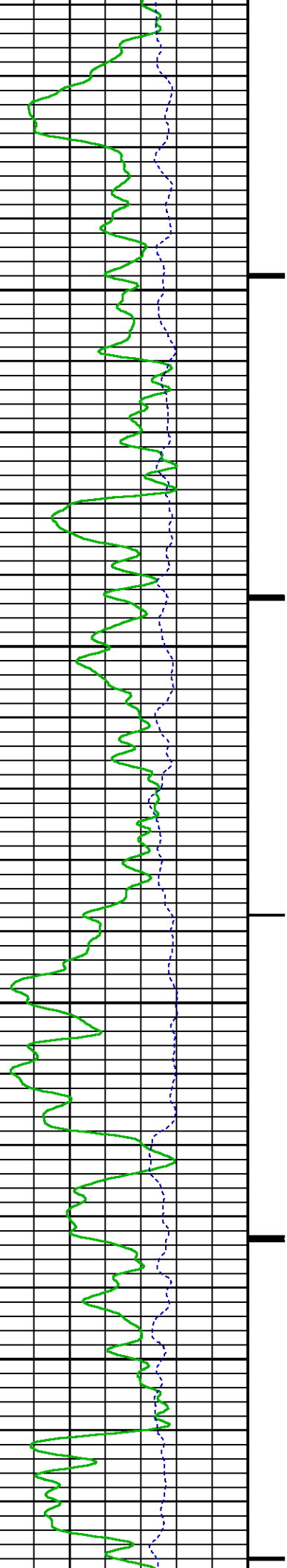


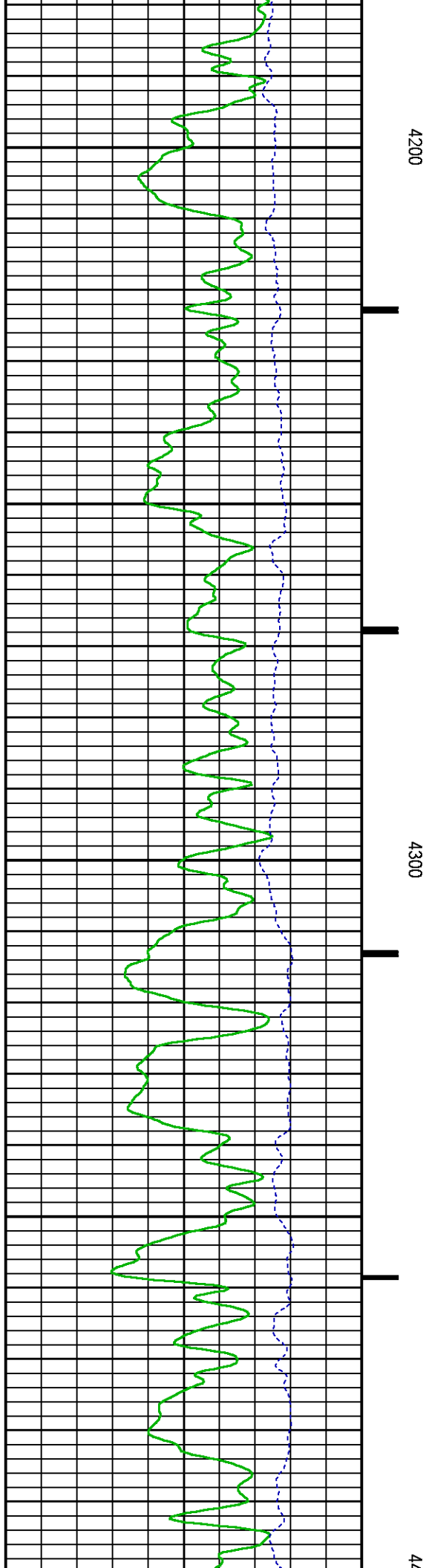
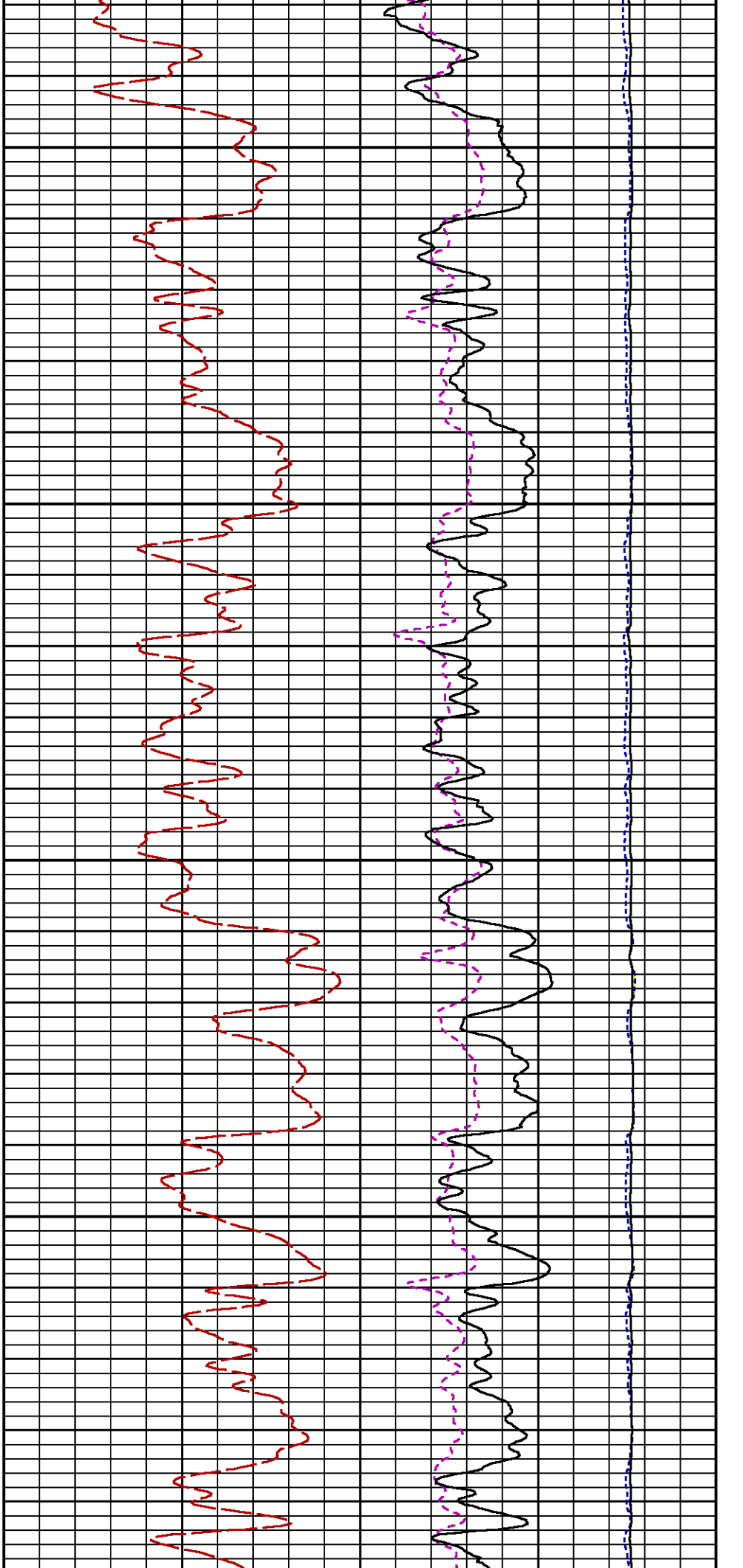


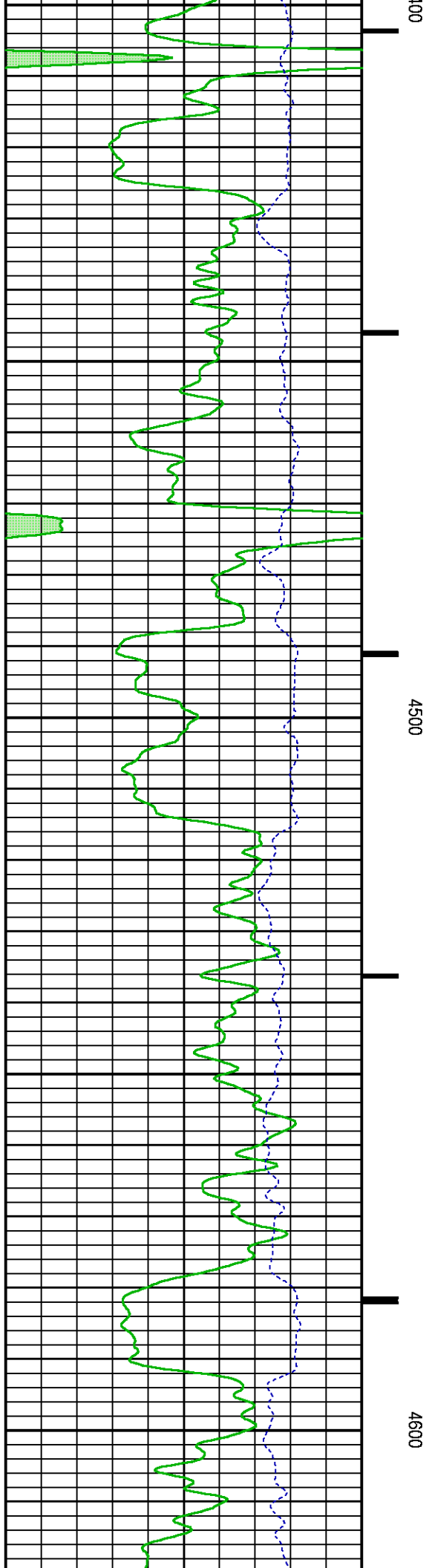
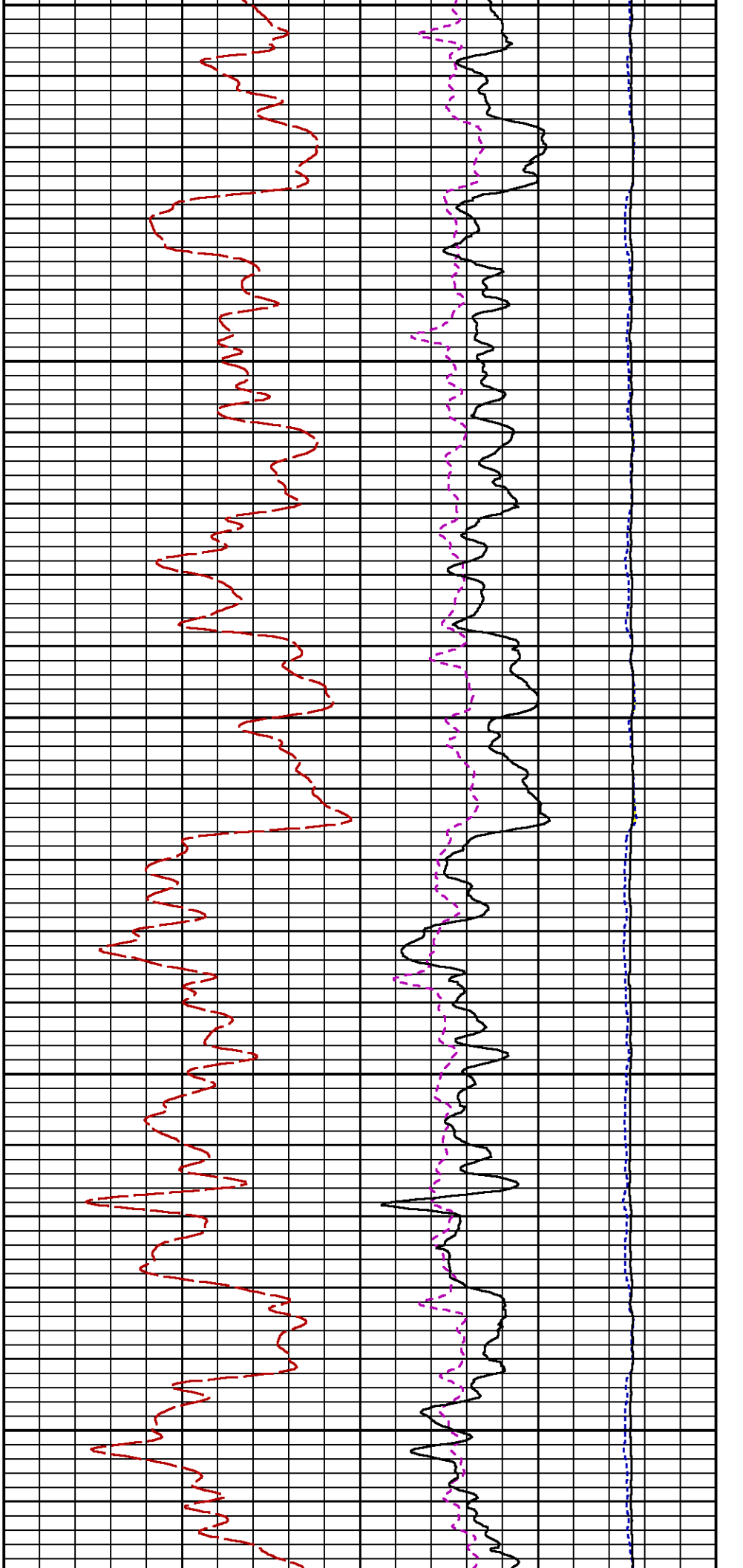


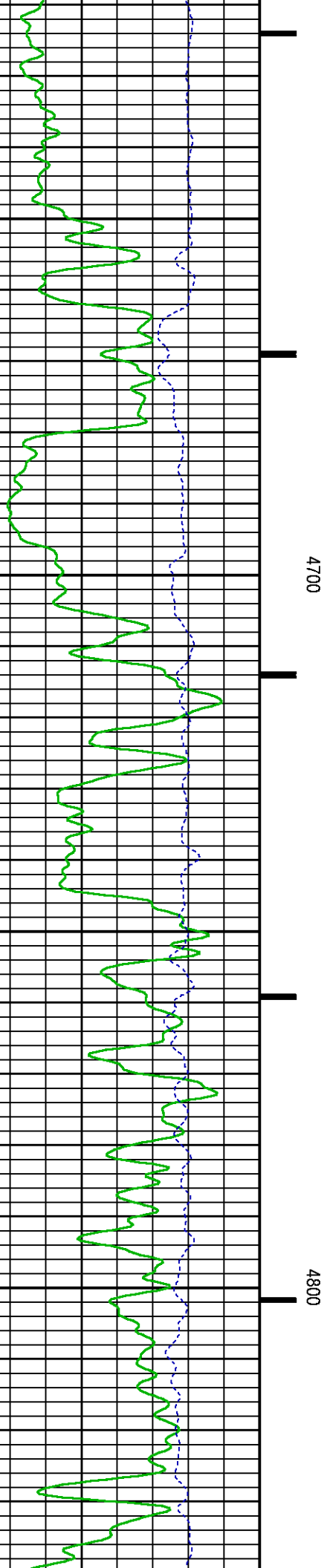
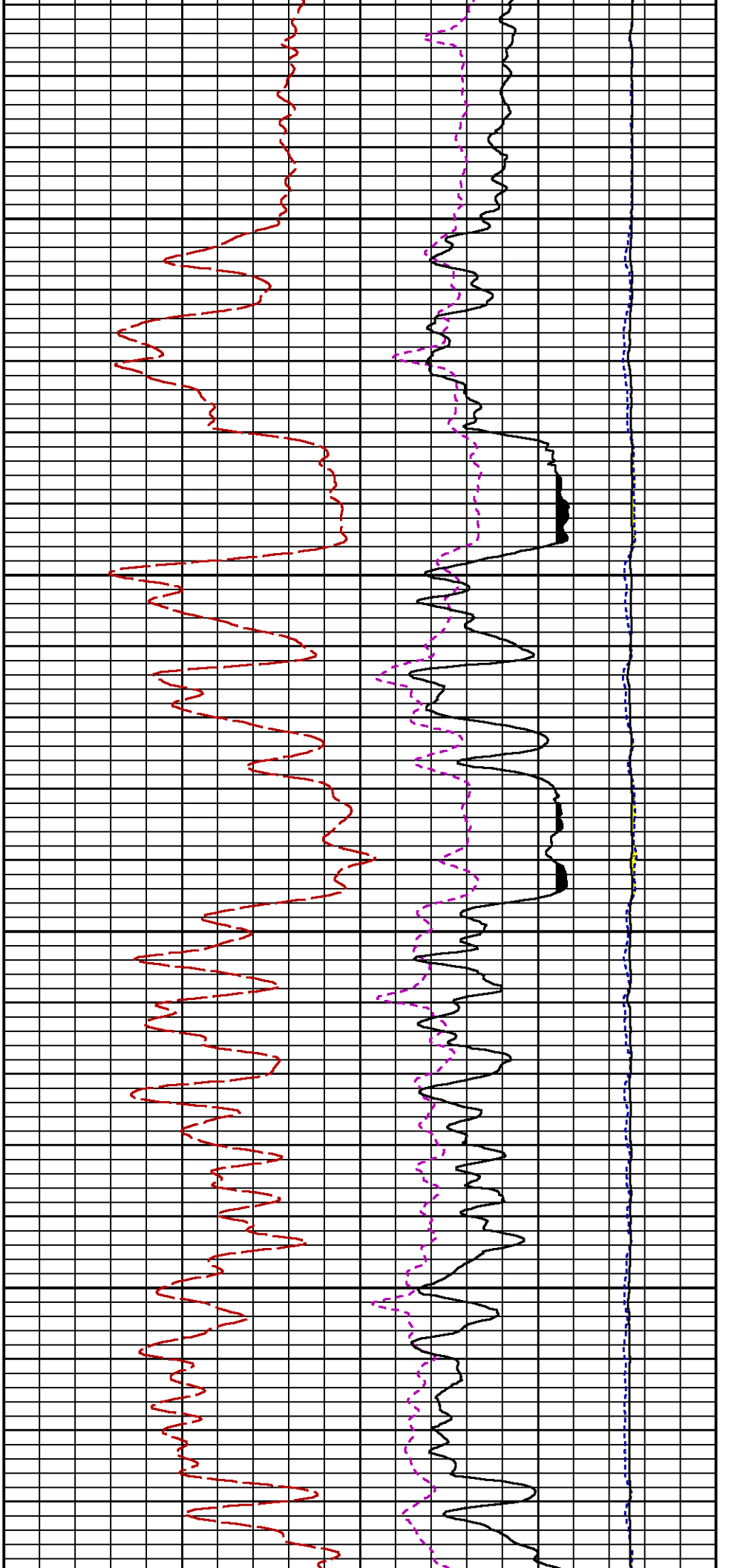
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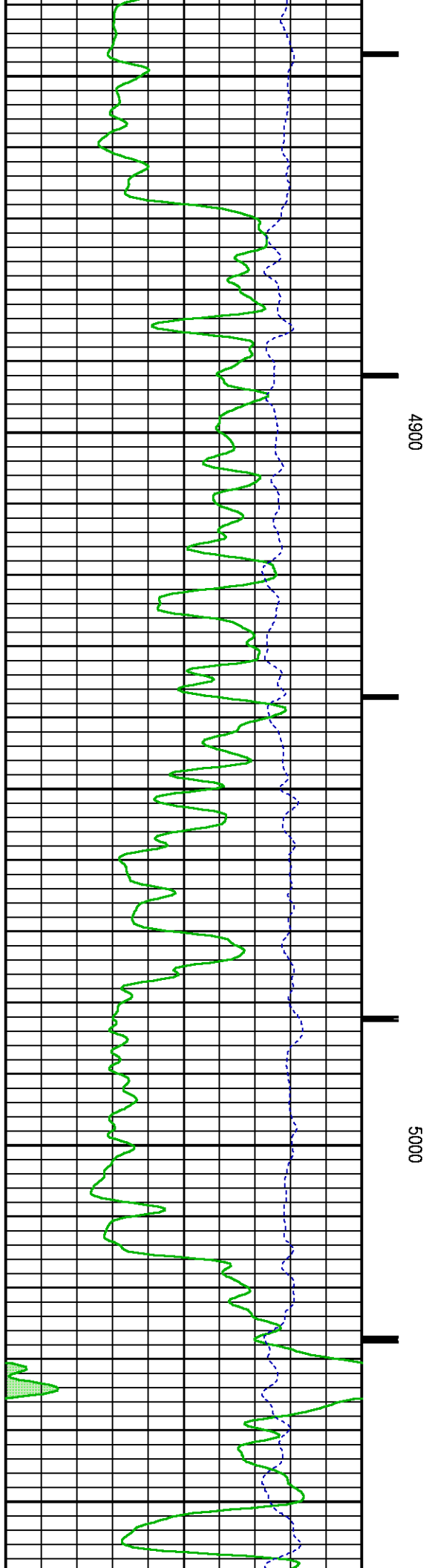
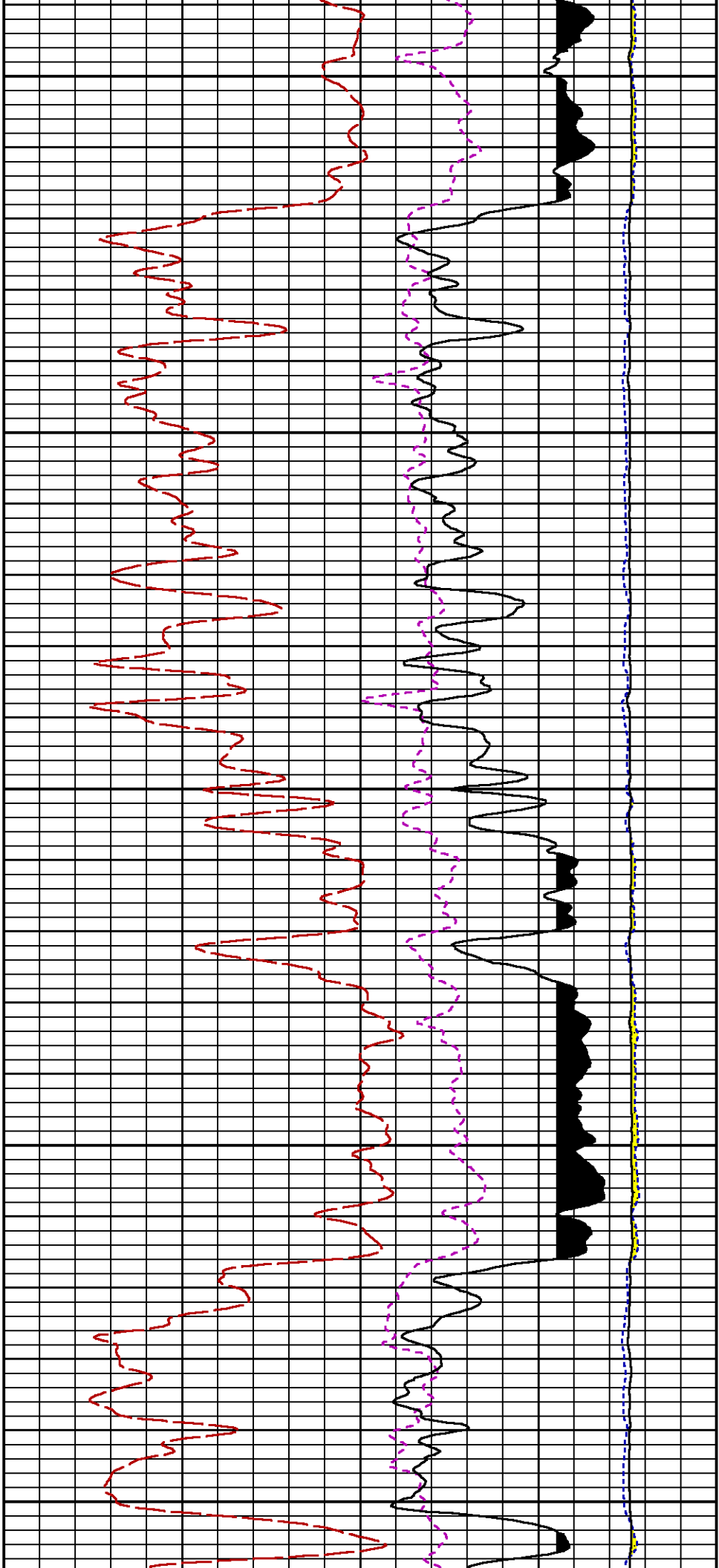
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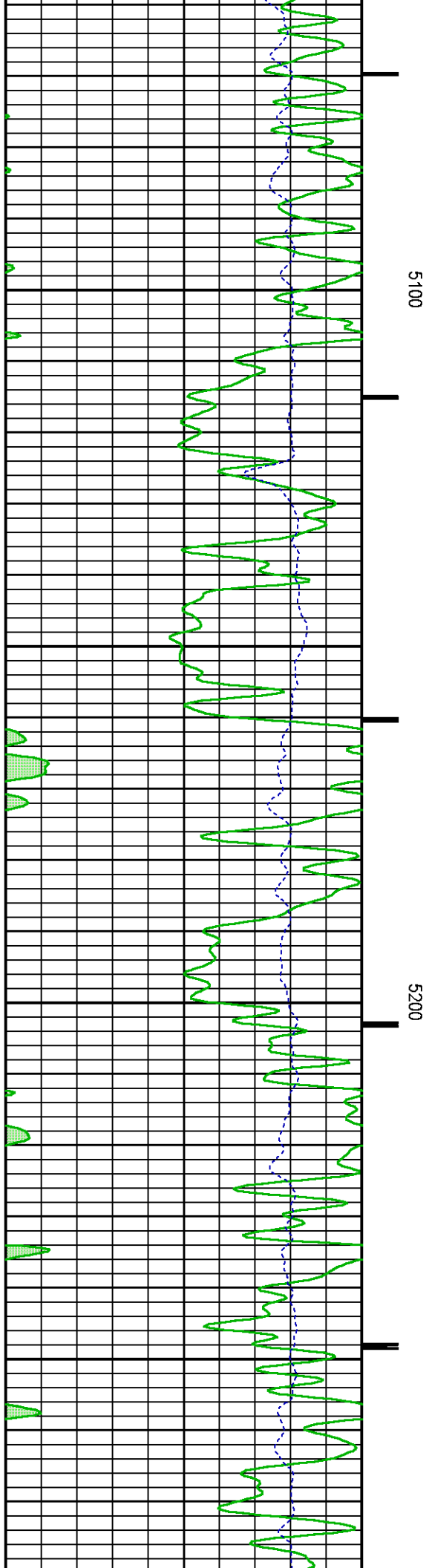
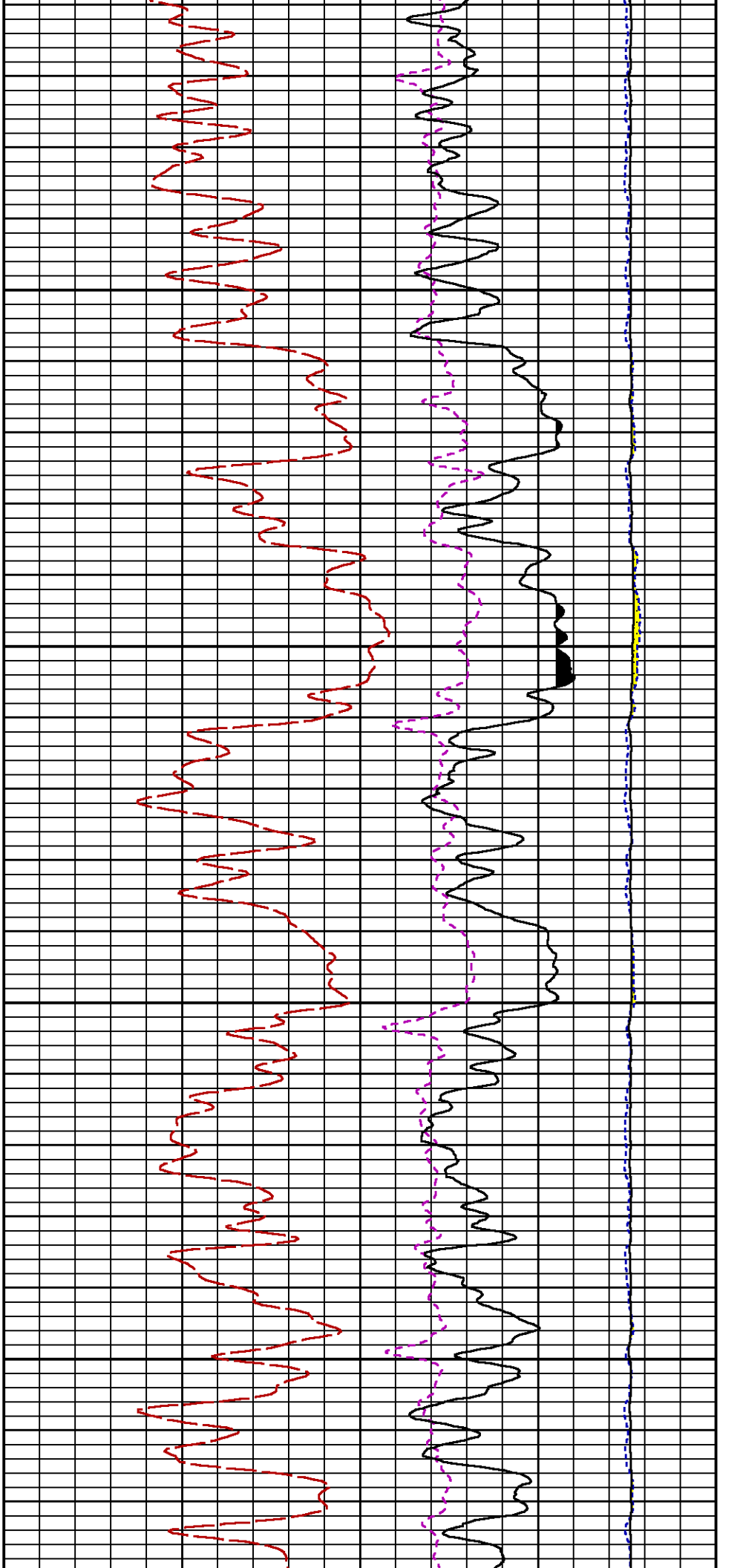


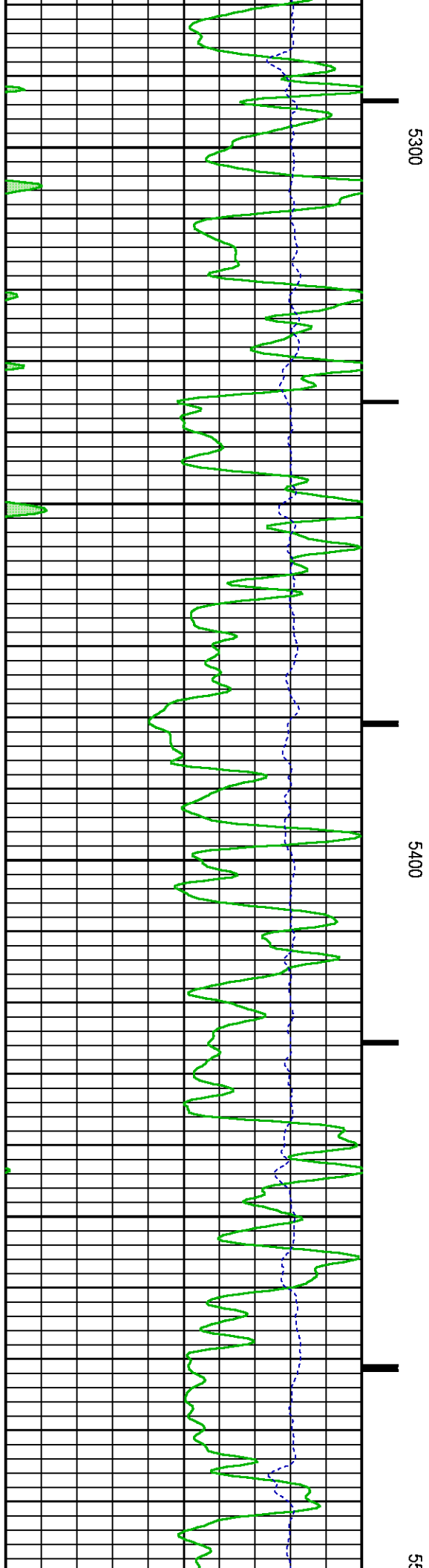
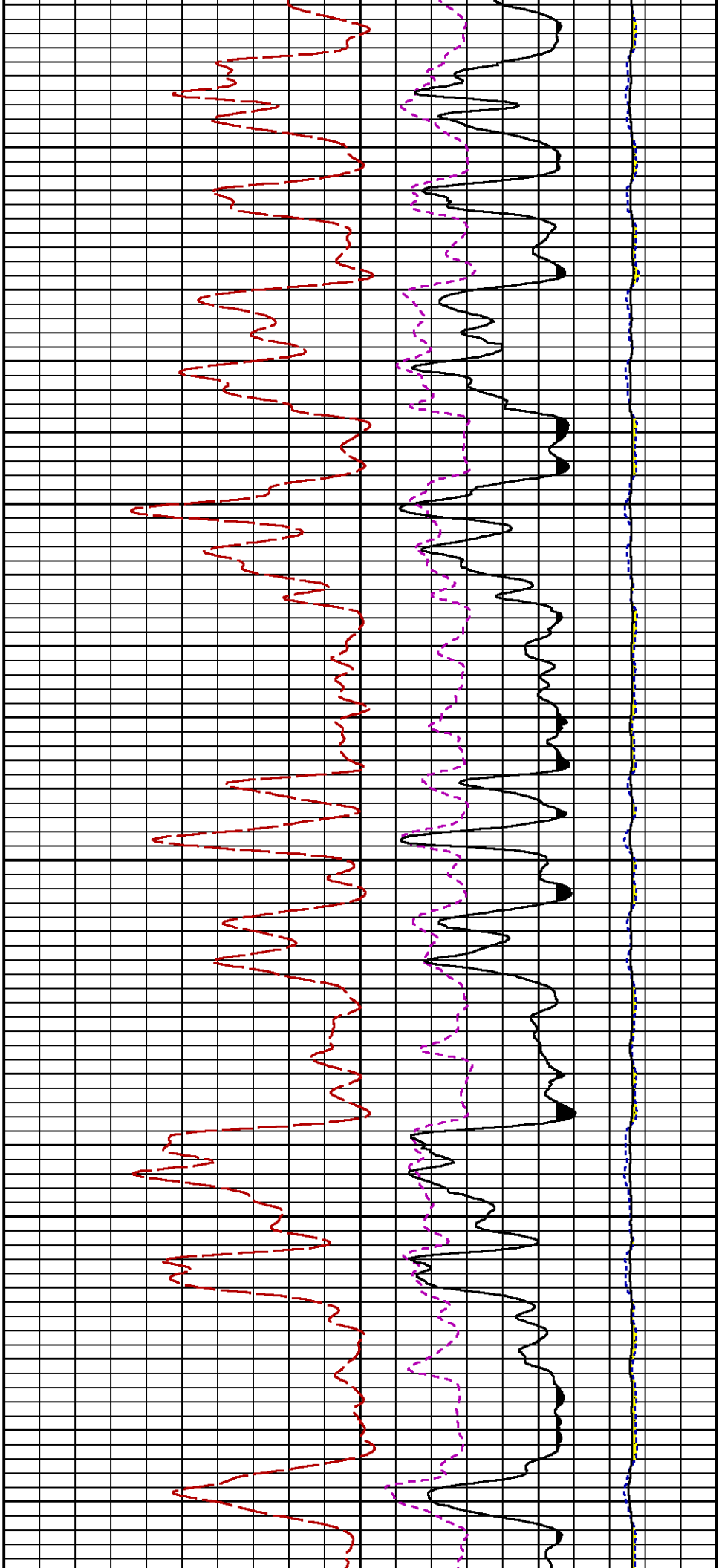


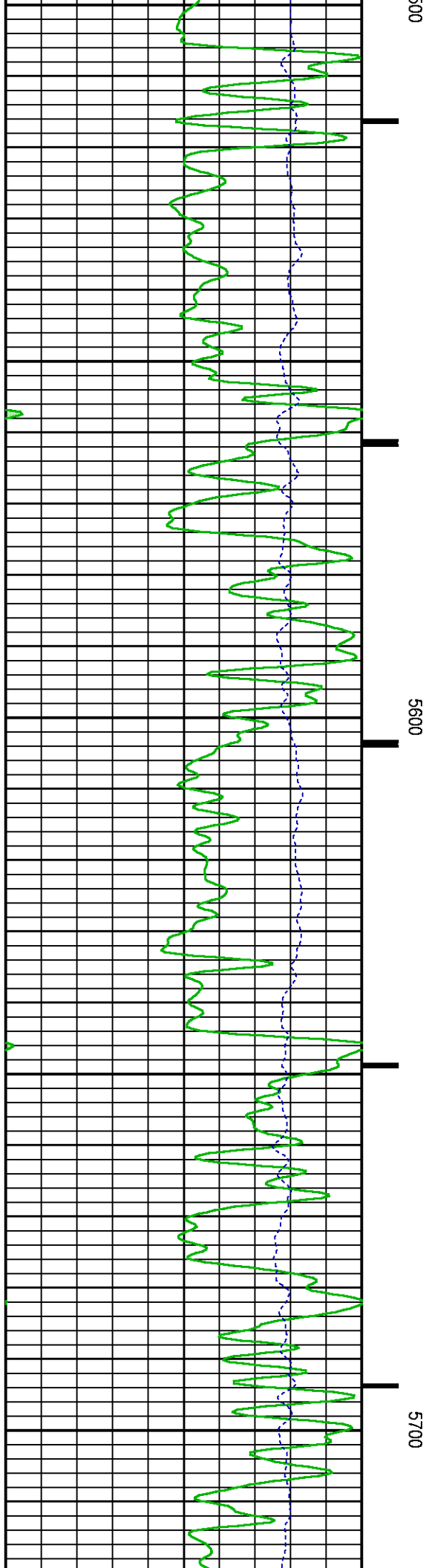
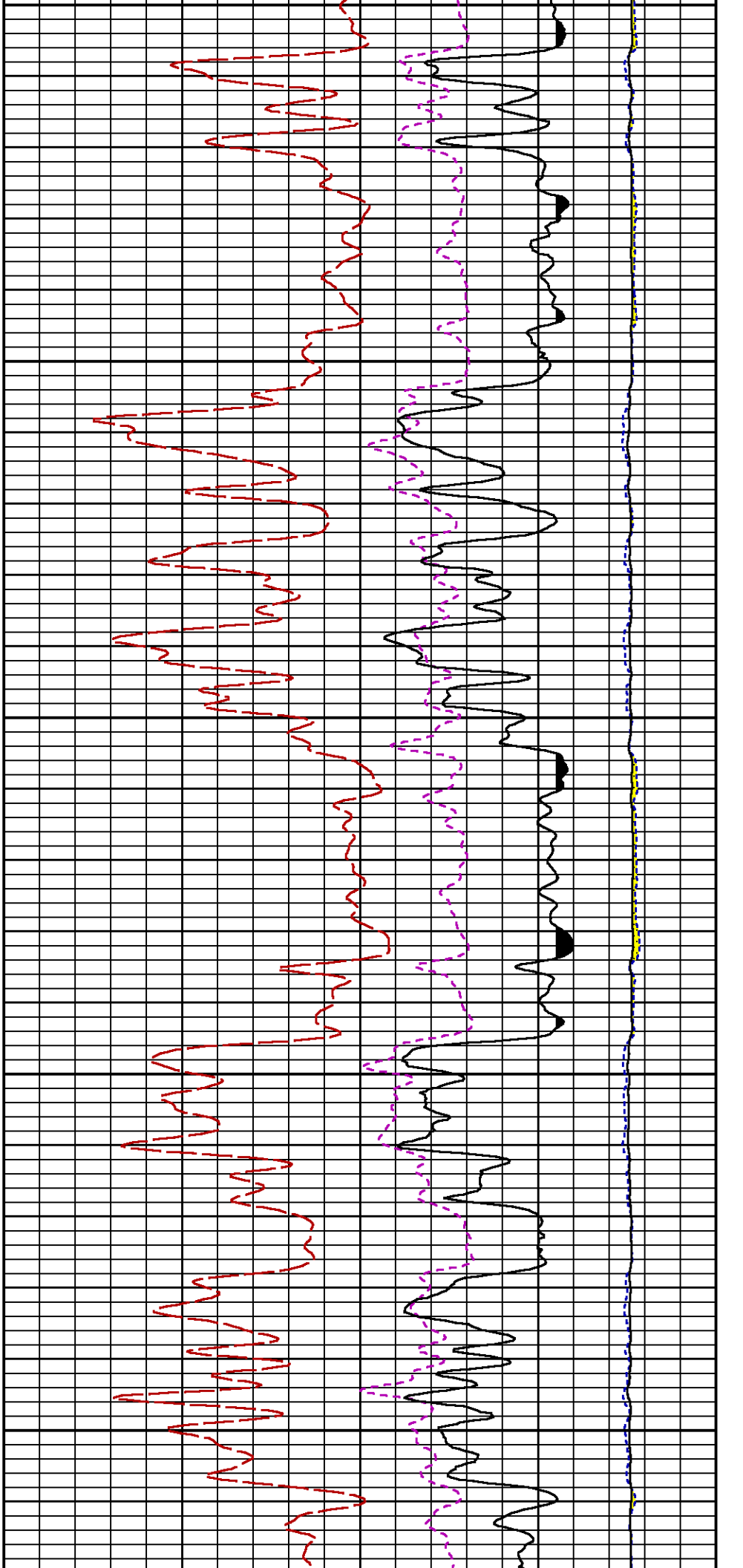


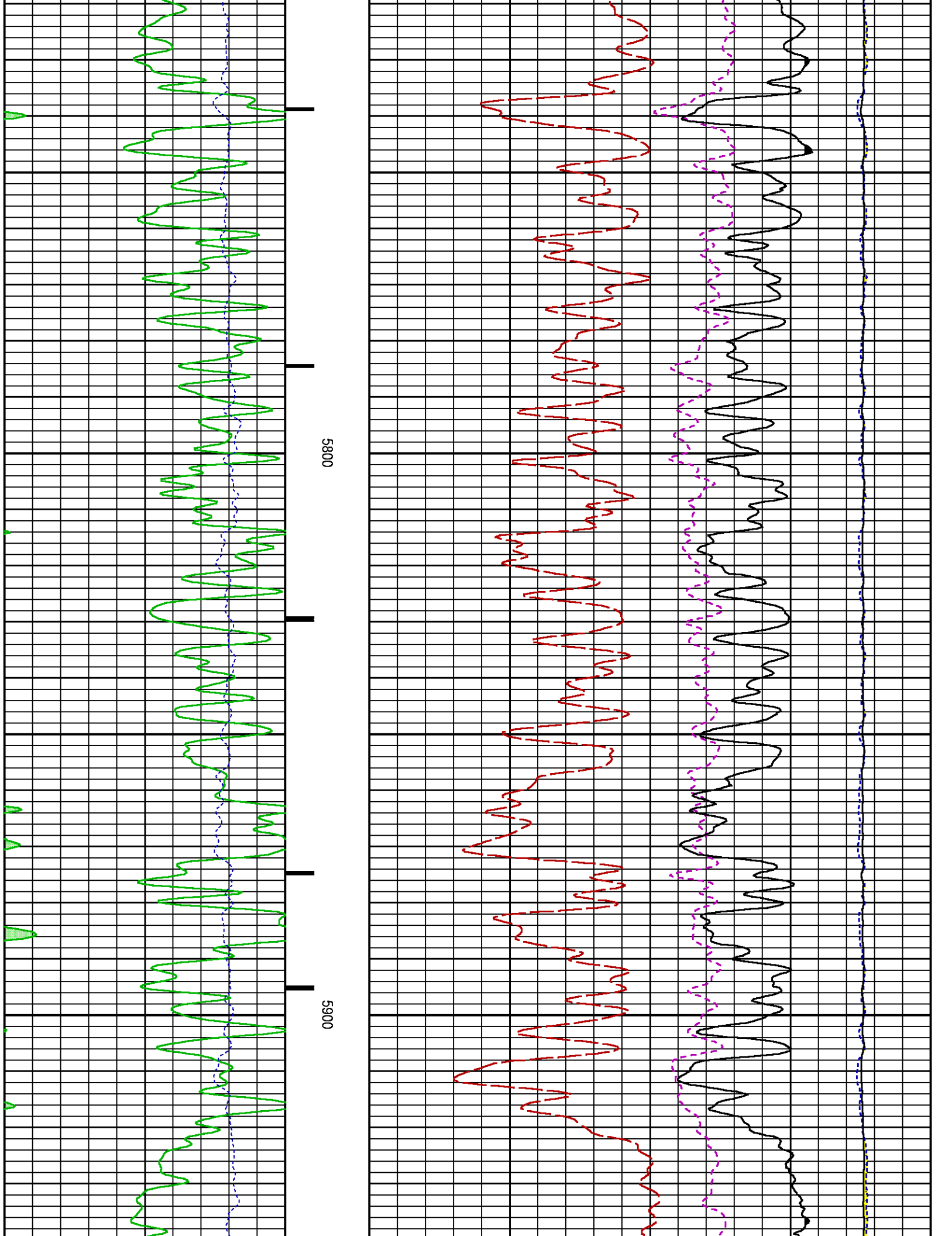


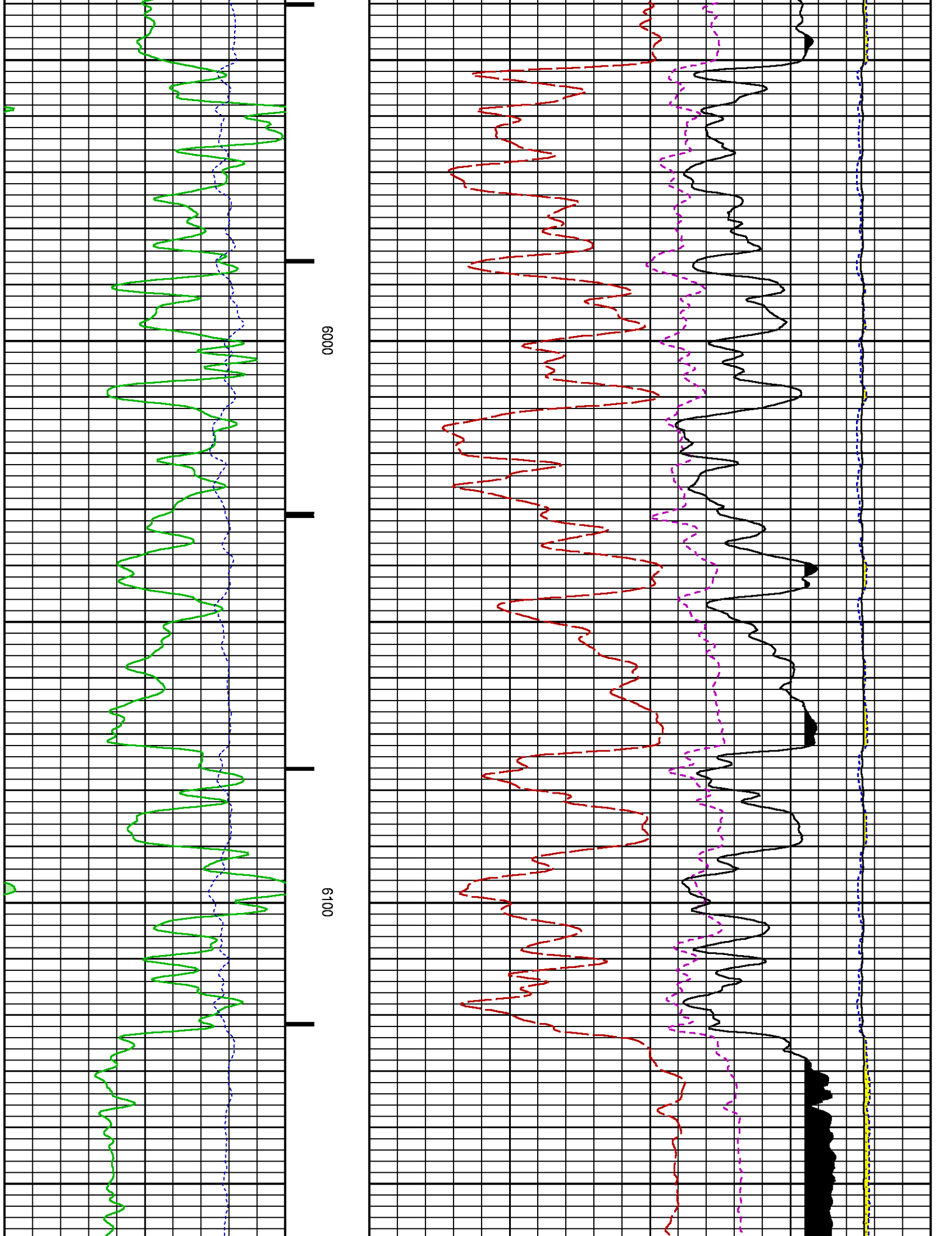


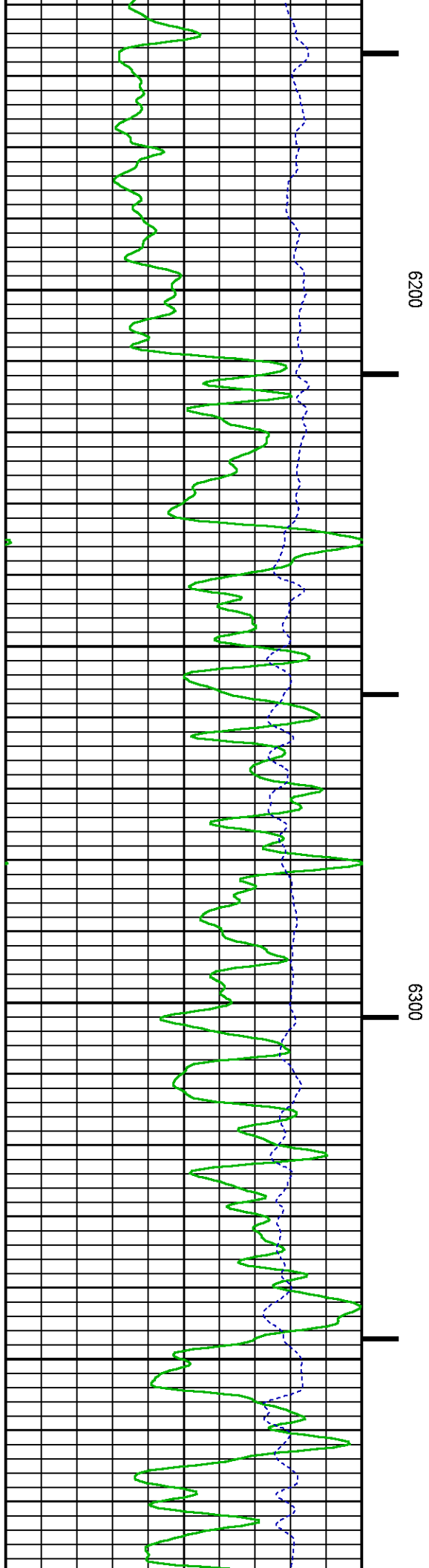
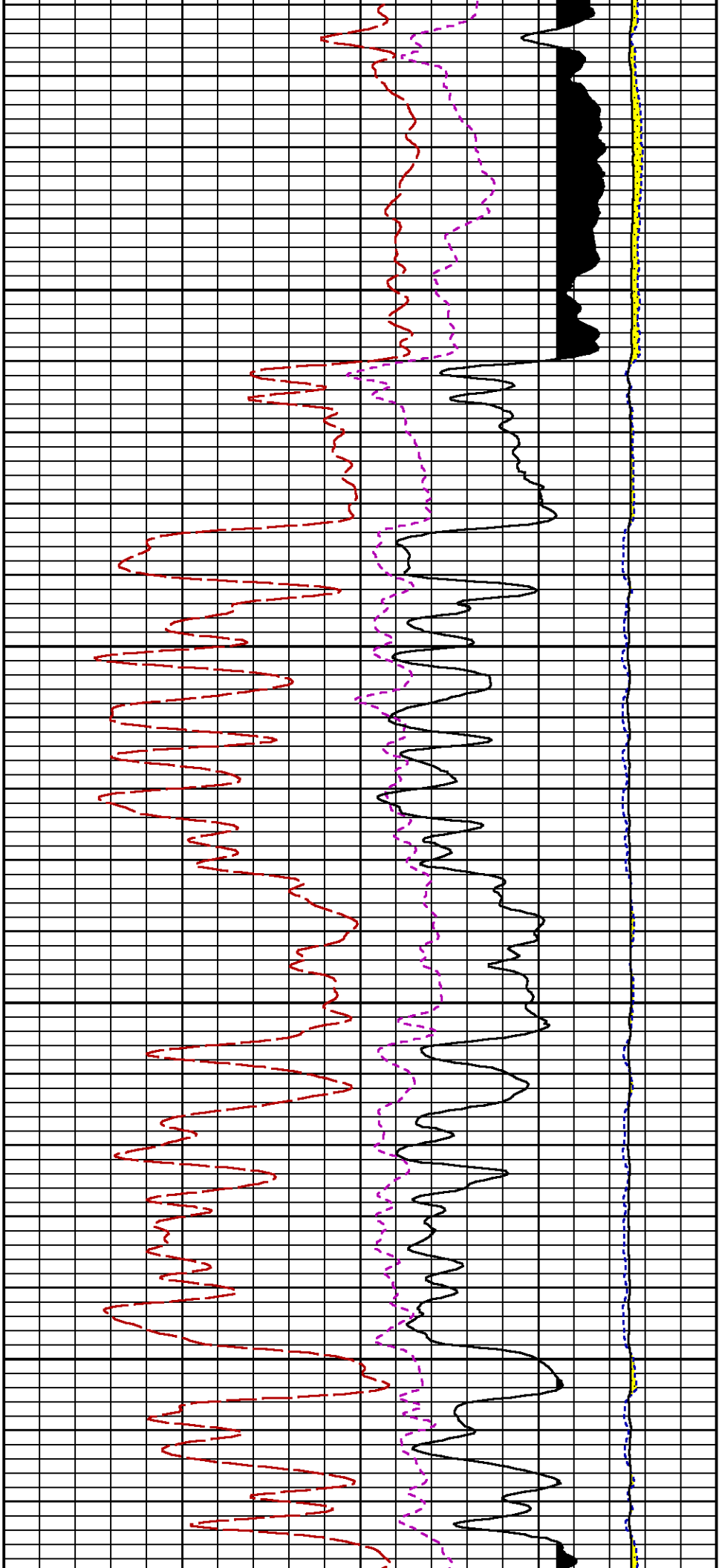


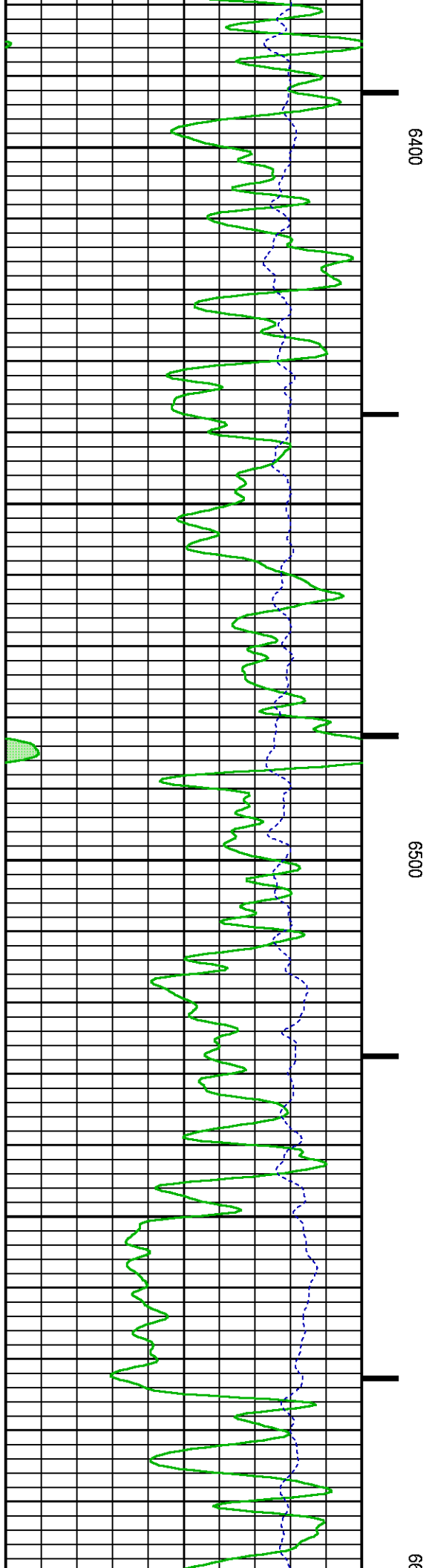
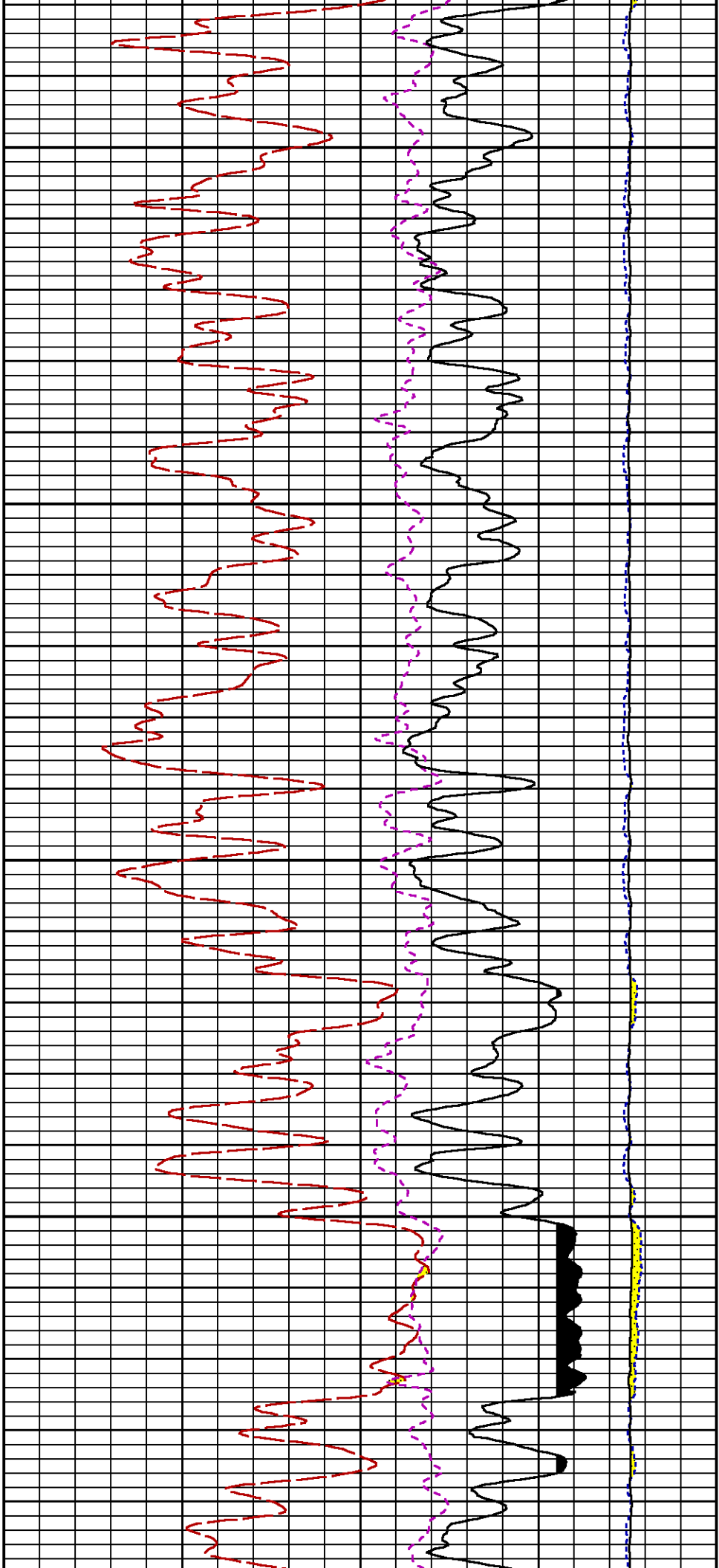


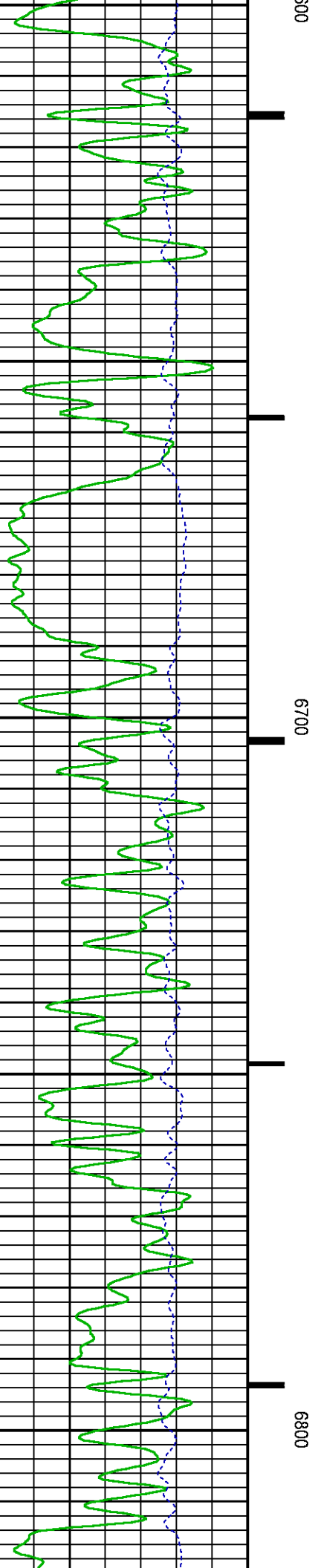
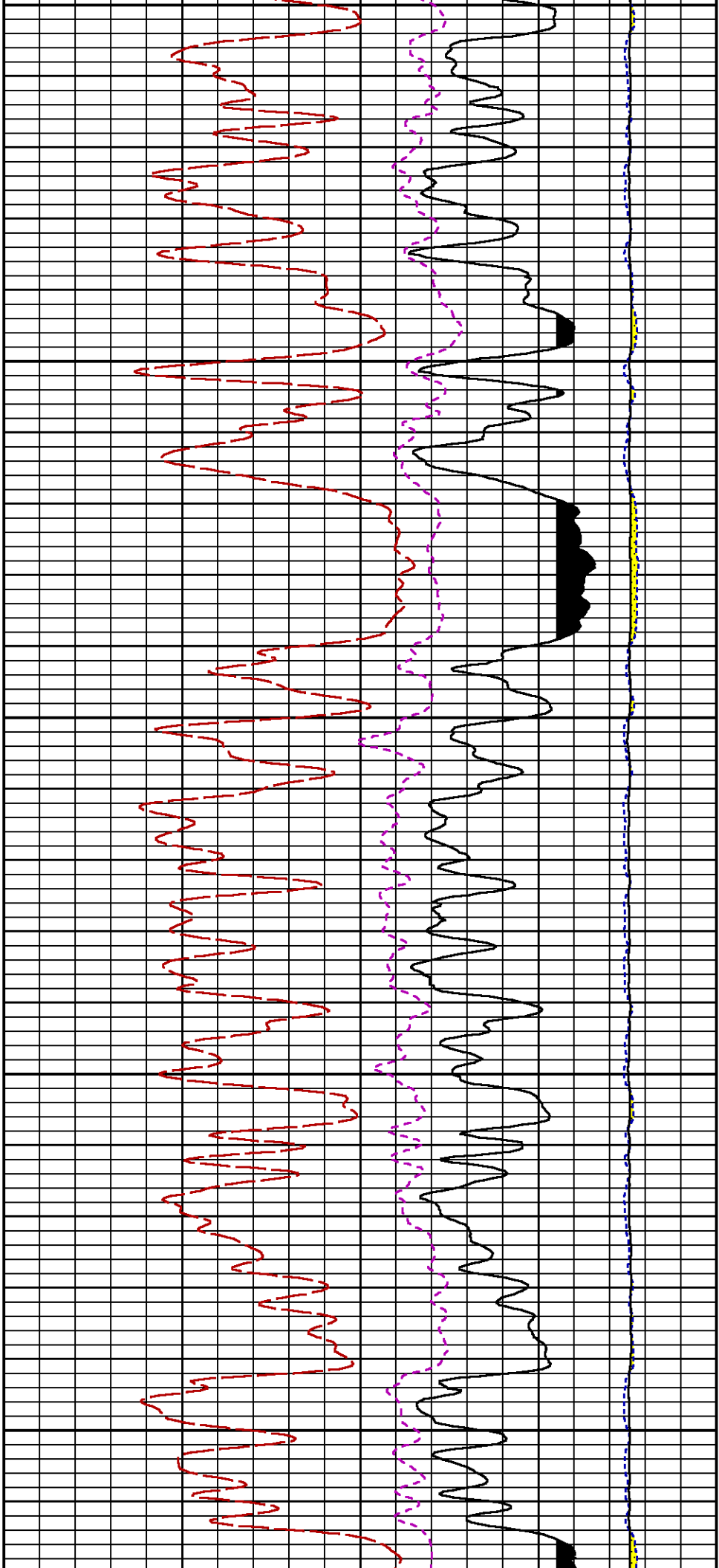


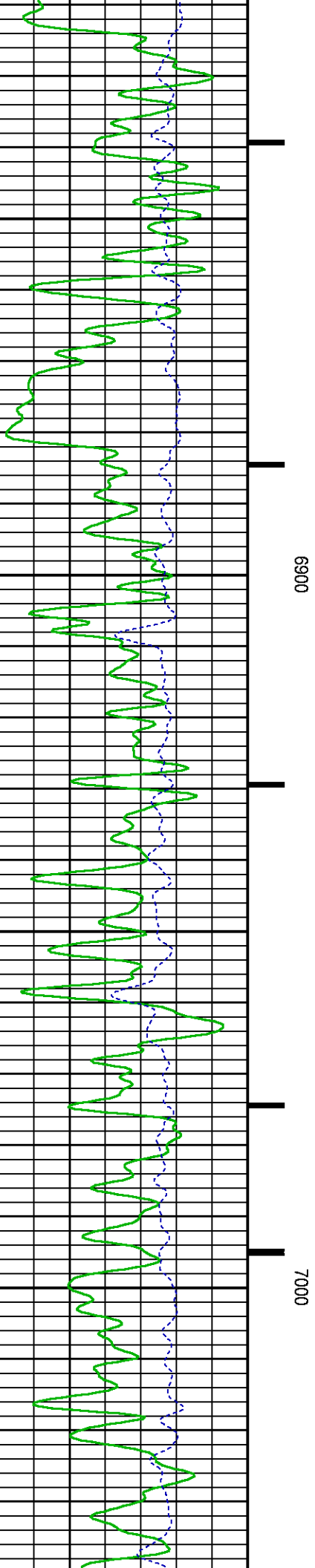
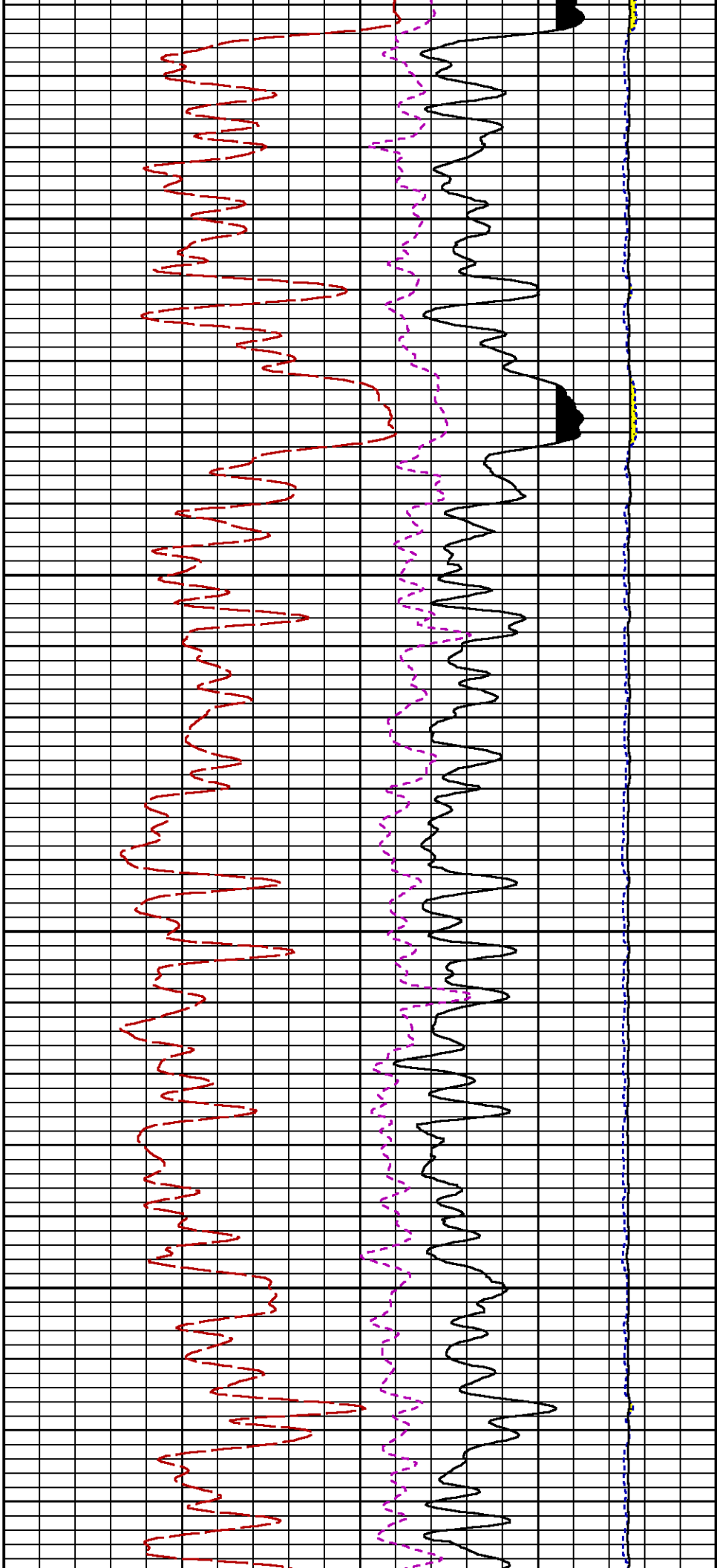


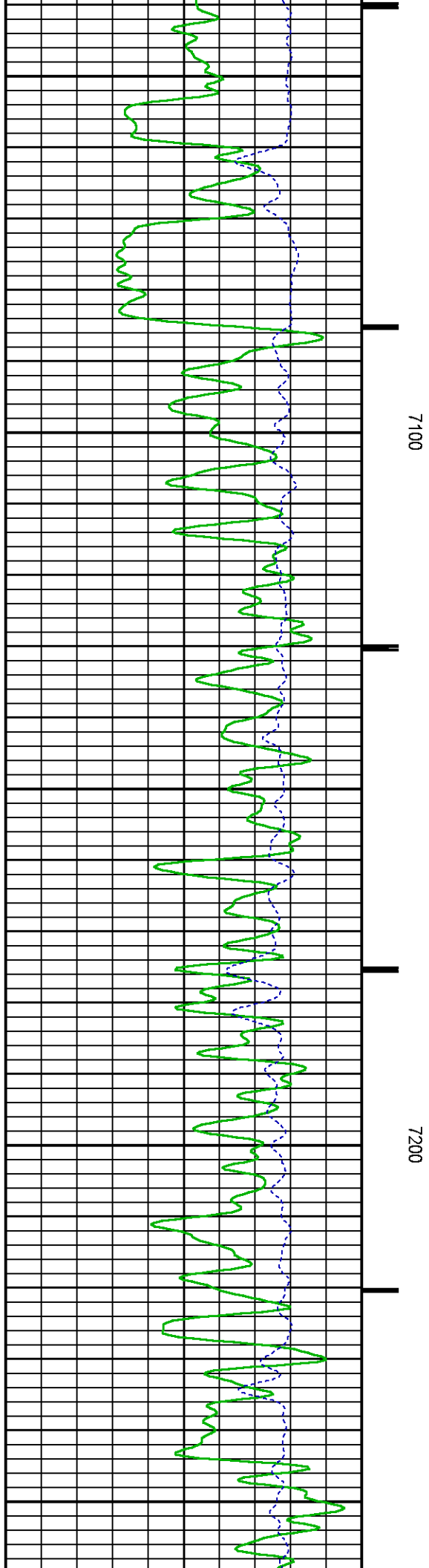
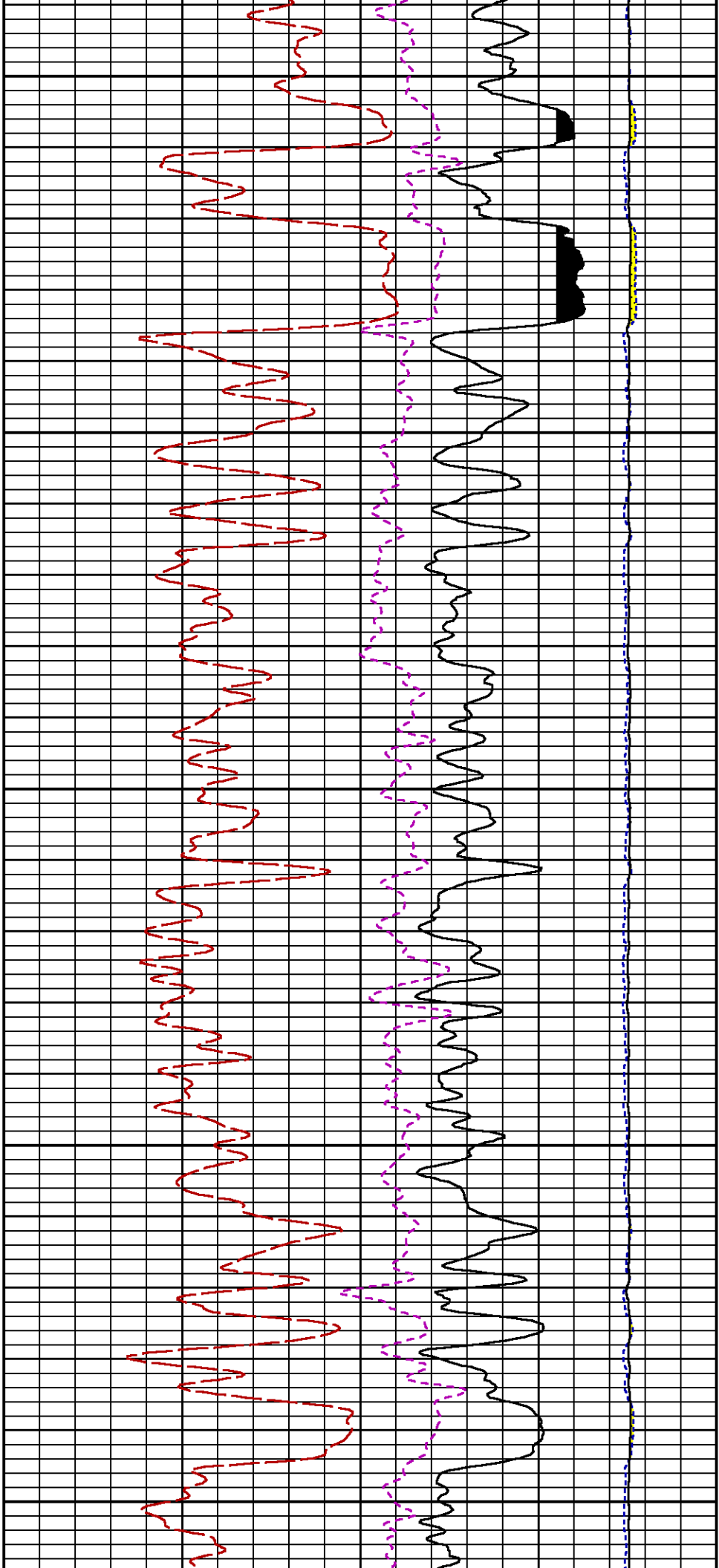


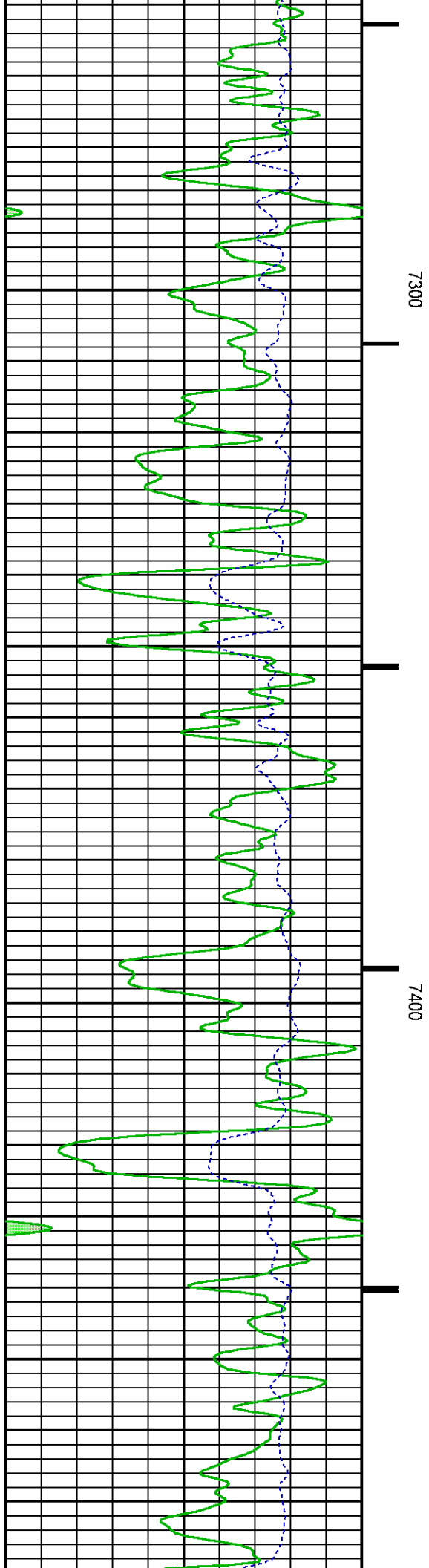
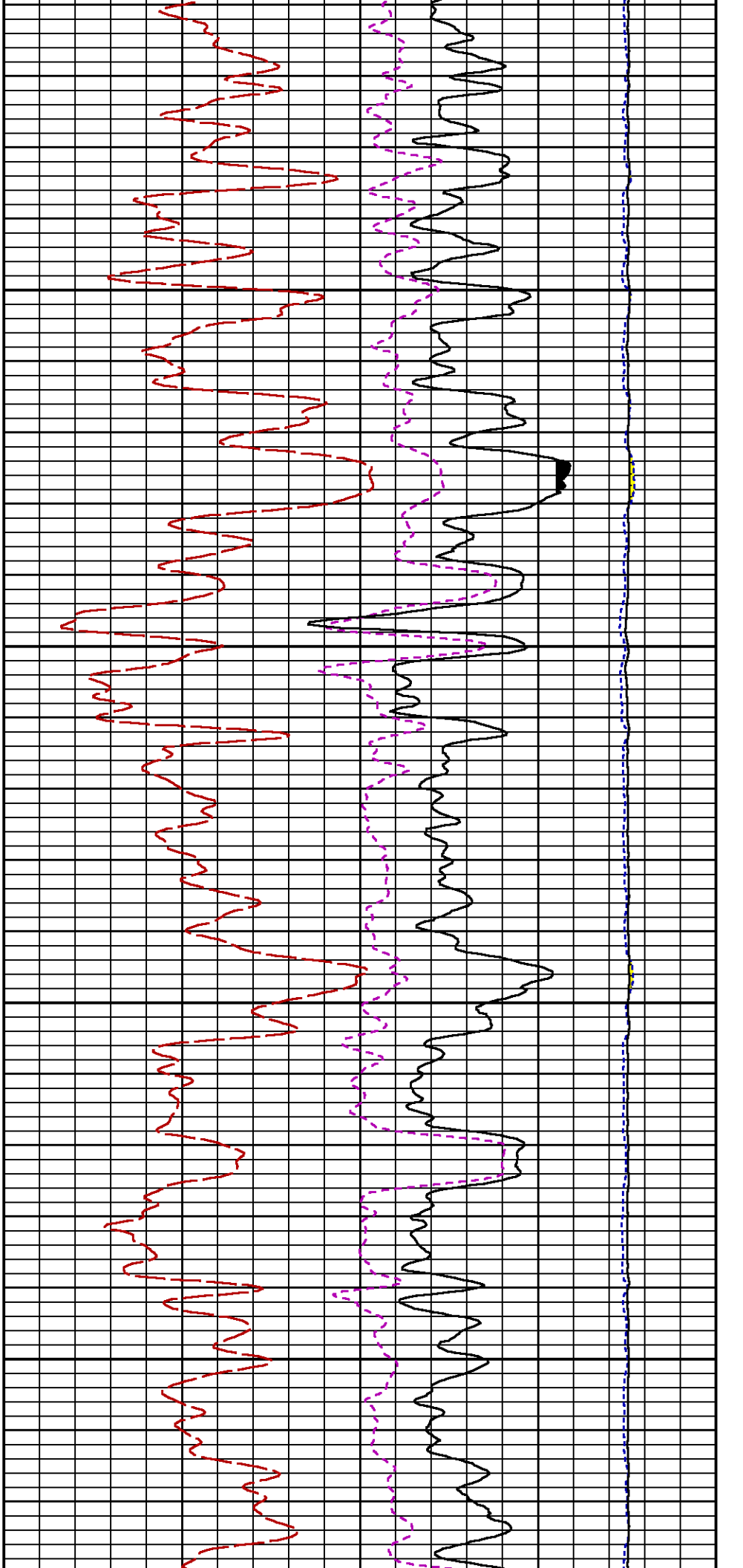


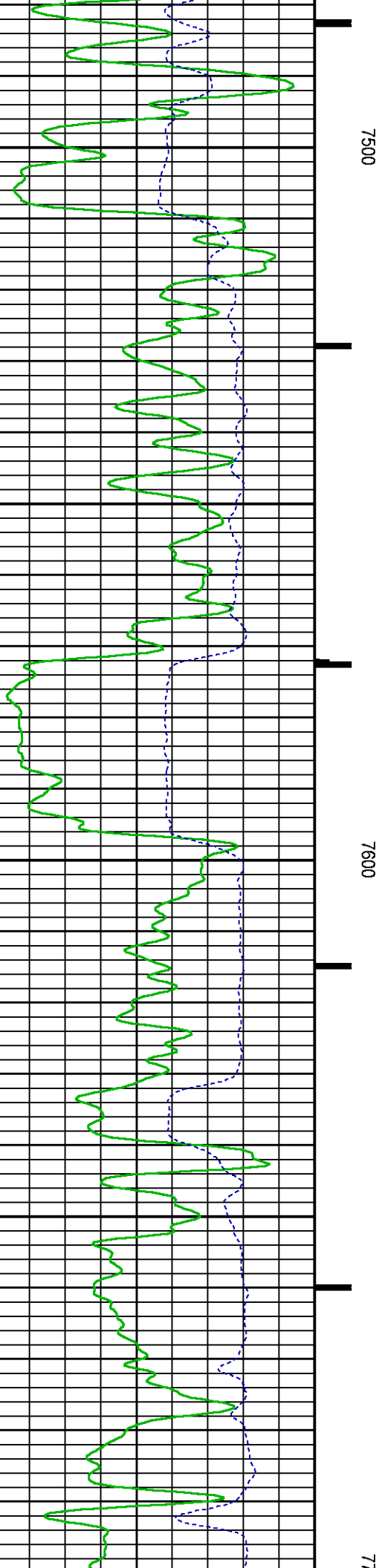
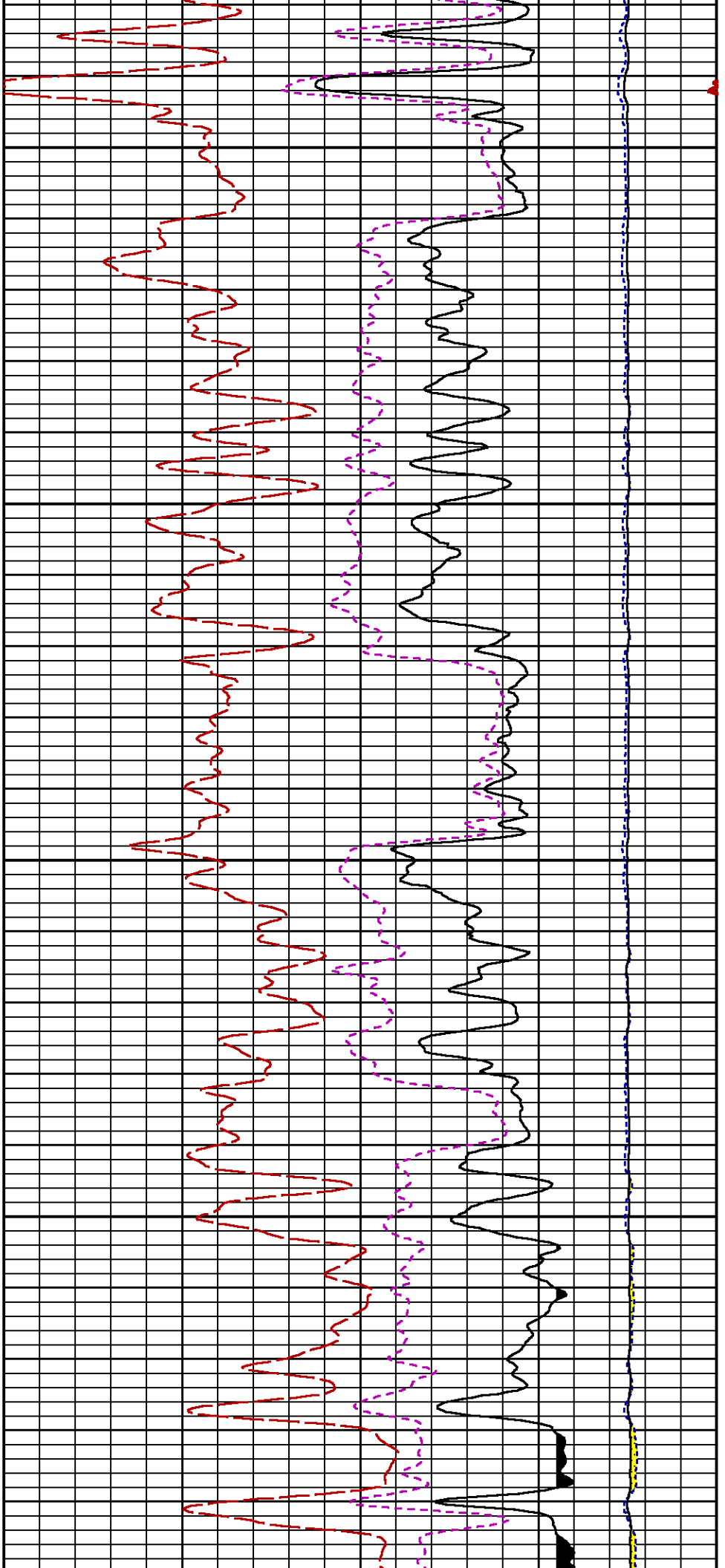


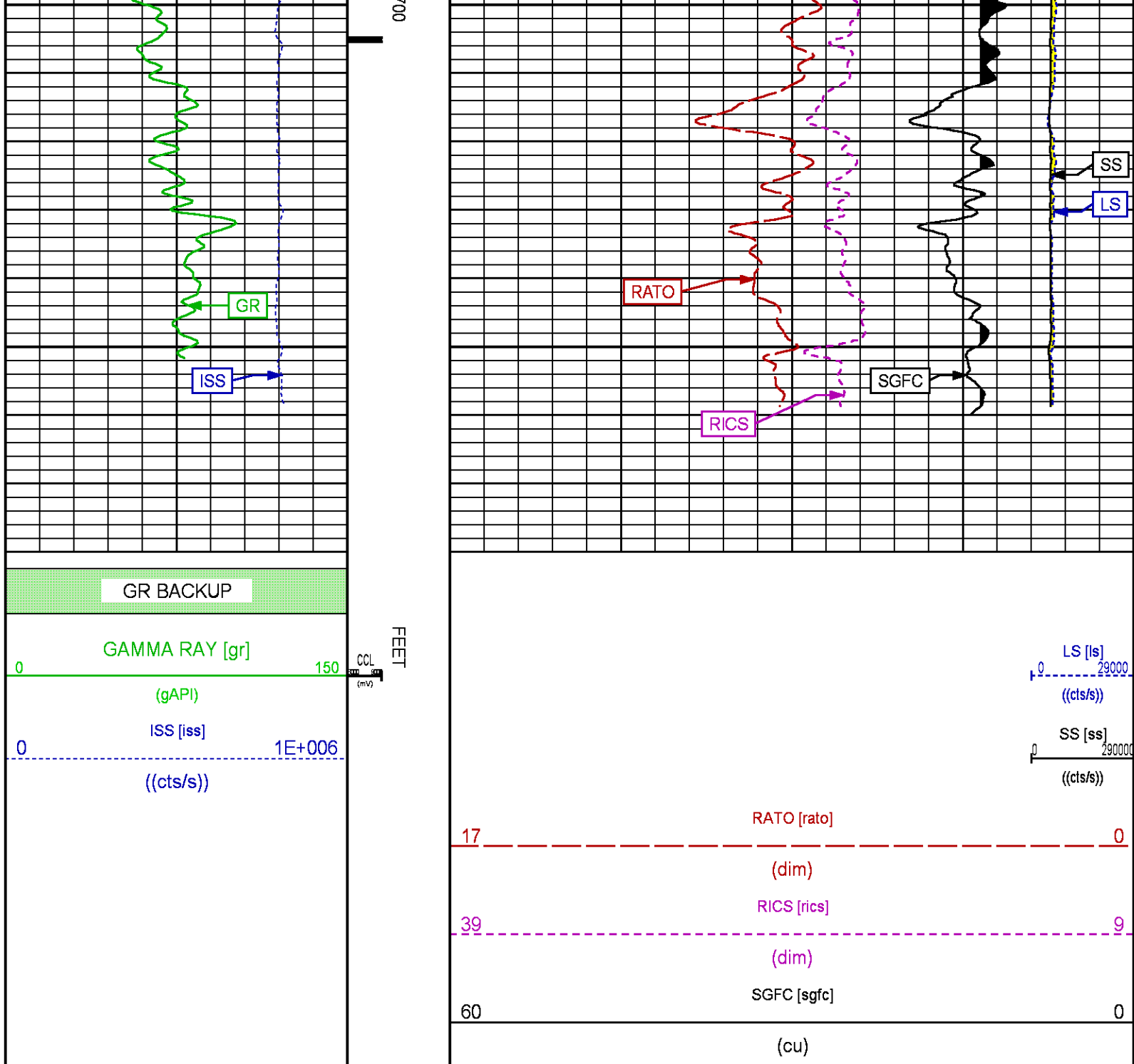












REPEAT PASS

ECLIPS 7.0w PC-ECLIPS General Release Rel 7.0w Fri Jun 09 11:02:06 Central Daylight Time 2017
Patches: 2

Plotted: Sat Feb 03 22:42:56 2018

PARAMETER AND FILTER SUMMARY REPORT

FILE: C:\dat1a\Bruton_30-14E\p353hR01.prm
LOGGING MODE: DEPTH DIRECTION: UP

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	7.88	in	" "
	LARGEST CASING OD	4.50	in	" "
	MATRIX	SANDSTONE		" "

CURVE DESCRIPTION REPORT

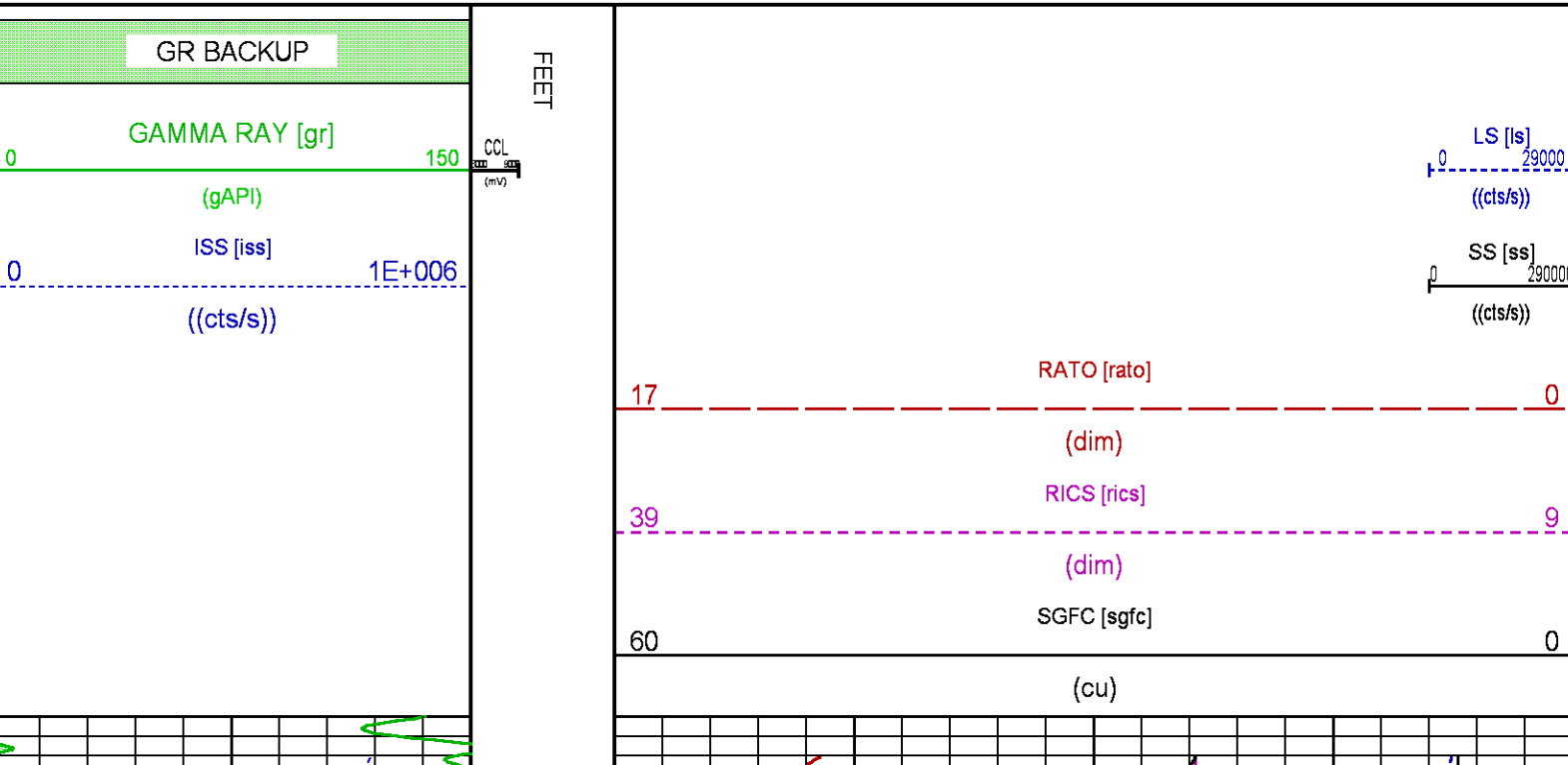
CURVE NAME	CREATION DATE	CURVE DESCRIPTION
F1:CCL	N/A	CASING COLLAR LOCATOR
F1:GR	N/A	GAMMA RAY
F1:ISS	N/A	INELASTIC SHORT SPACE COUNT RATE
F1:LS	N/A	LONG SPACE COUNT RATE
F1:RATO	N/A	SHORT/LONG SPACE COUNT RATE RATIO
F1:RICS	N/A	SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS)
F1:SGFC	N/A	BOREHOLE AND DIFFUSION CORRECTED SIGMA
F1:SS	N/A	SHORT SPACE COUNT RATE

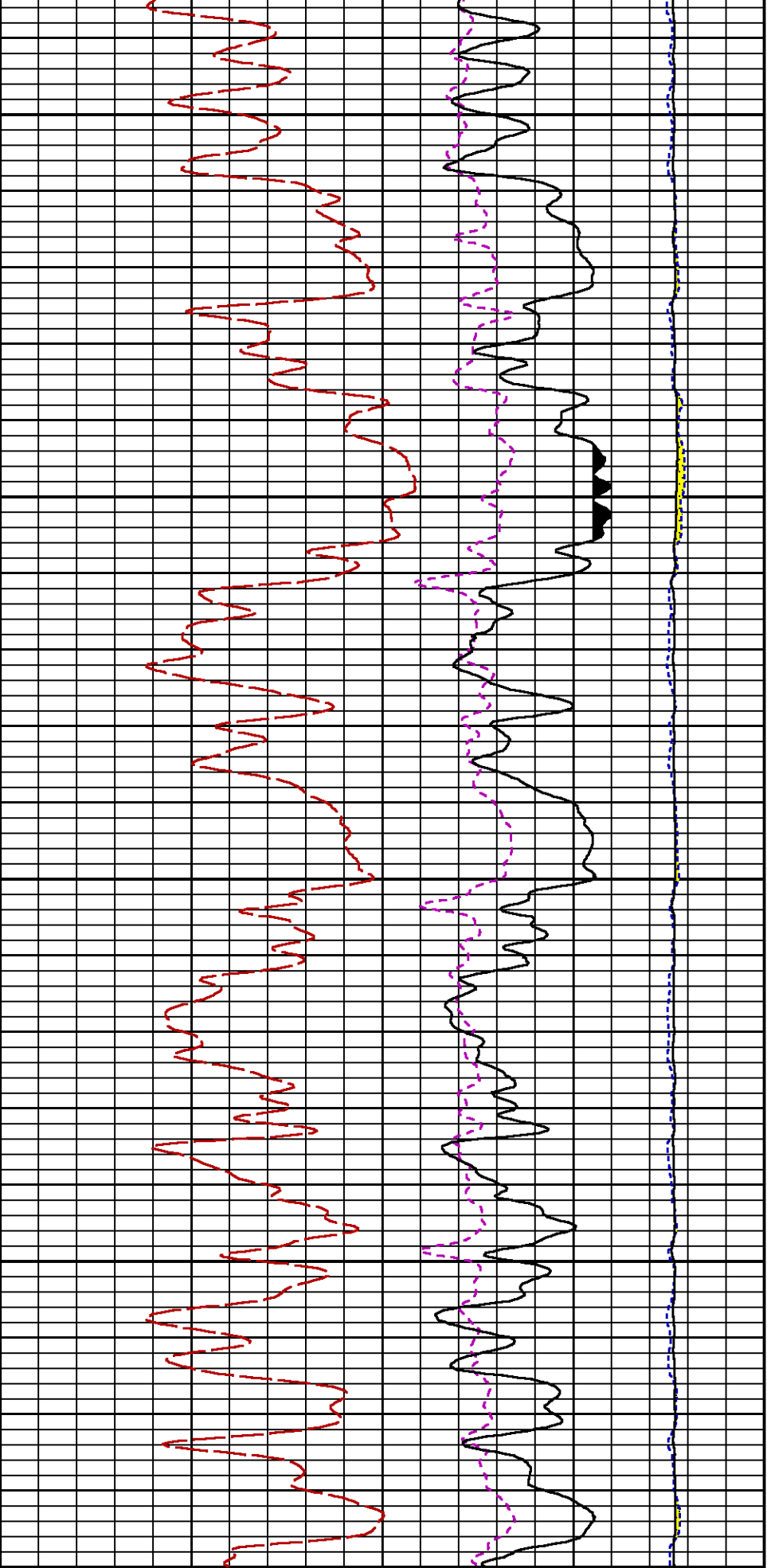
CURVE MEASURE POINT OFFSET

CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)	CURVE	OFFSET (ft)
CCL	-26.00	ISS	-12.75	RATO	-12.75	SGFC	-12.75
GR	-23.00	LS	-12.75	RICS	-12.75	SS	-12.75

Presentation : BHI4WM4ZW1:C:\dat1a\Bruton_30-14E\30-14E_RPM_REPEAT.fvpdf [5"/100' Scale]
Plot Interval : 5080 - 5290 Feet

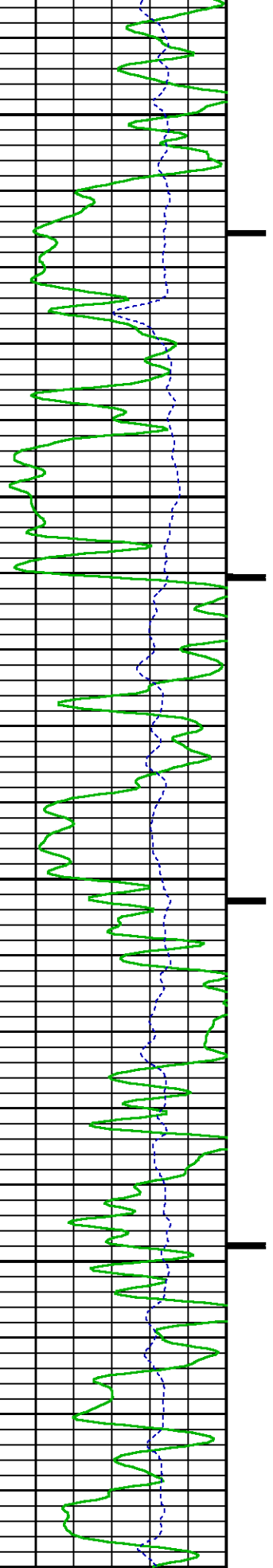
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Created On : N/A
Company : LARAMIE ENERGY LLC
Well : BRUTON 30-14E
Field : VEGA
File Interval : 5057.5 - 5313.75 Feet
OCT : p353h





5100

5200

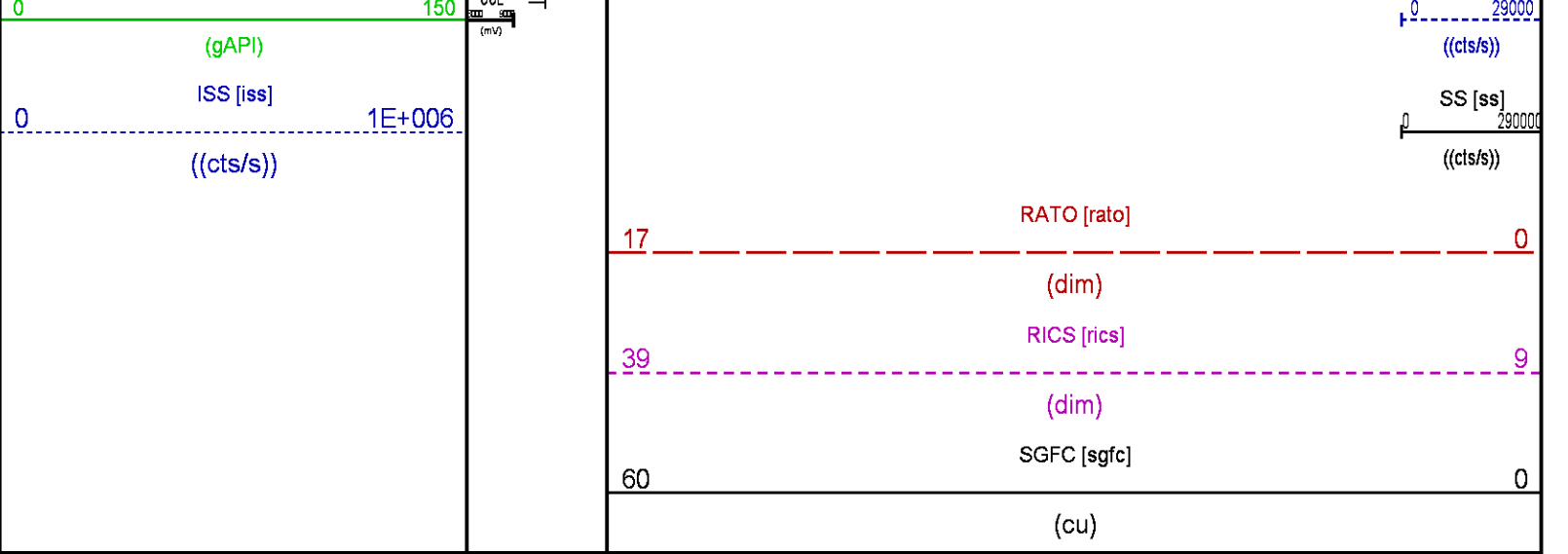


GR BACKUP

GAMMA RAY [gr]

FEET

IS [is]



CALIBRATION / VERIFICATION SUMMARY

Source File: C:\dat1a\Bruton_30-14E\p353h.tp1

GR PRIMARY CALIBRATION SUMMARY

NOT IN DATABASE

GR PRIMARY VERIFICATION SUMMARY

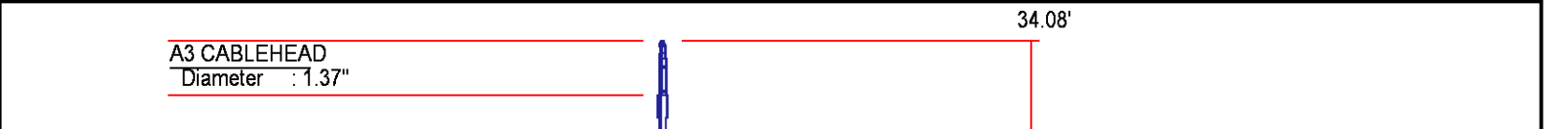
NOT IN DATABASE

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

NOT IN DATABASE

INSTRUMENT CONFIGURATION

Source File: C:\dat1a\Bruton_30-14E\RPM-tdg



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

CCL MP 26.03'

GAMMA RAY

Diameter : 1.70"
Length : 3.02'
Weight : 15 lbs
Series : 8262XA
Mnemonic : GR
Measure Point: 0.89': GR MP

GR MP 22.90'

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 MP
Measure Point: 5.04': LS MP
Measure Point: 4.79': SS MP

XLS MP 13.58'
LS MP 13.16'
SS MP 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: 34.08'
TOTAL WEIGHT: 144 lbs
MAX DIAMETER: 0'1.70"



COMPANY

LARAMIE ENERGY LLC

WELL

BRUTON 30-14E

FIELD

VEGA

COUNTY

MESA

STATE COLORADO

FILE NO:

CH132060

API NO:

05077104710000

LOCATION:

ELEVATIONS:



SHL: 2606' FNL & 1874' FEL
BHL: 1867' FSL & 1333' FEL

KB 7665 FT
DF
GL 7635 FT

SEC 30 TWP 9S RGE 93W

DATE 03-Feb-2018