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|---|--|
| FILE NO: CH096699 | COMPANY WPX ENERGY |
| API NO: 05103119910000 | WELL FEDERAL RGU 43-26-198 |
| | FIELD SULPHUR CREEK |
| | COUNTY RIO BLANCO |
| | STATE COLORADO |
| Ver. 4.01 SEC 26 T1S R98W RGU 42-26-198 H&P 318 | LOCATION: SHL: 2447' FNL 897' FEL BHL: 2393' FSL 8' FEL SEC 26 TWP 1S RGE 98W |
| PERMANENT DATUM LOG MEASURED FROM DRILL. MEAS. FROM | OTHER SERVICES CBL ELEVATIONS: KB 6646 FT DF GL 6622 FT |

| | | | | |
|------------------------|------------------|------|-----------|--|
| DATE | 22-May-2015 | | | |
| RUN | TRIP | 2 | 1 | |
| SERVICE ORDER | US096699J | | | |
| DEPTH DRILLER | 12488 FT | | | |
| DEPTH LOGGER | 12409 FT | | | |
| BOTTOM LOGGED INTERVAL | 12399 FT | | | |
| TOP LOGGED INTERVAL | 3950 FT | | | |
| TIME STARTED | 12:30 | | | |
| TIME FINISHED | 23:45 | | | |
| OPERATOR RIG TIME | 11:15 | | | |
| TYPE OF FLUID IN HOLE | WATER | | | |
| FLUID DENSITY | NA | | | |
| FLUID SALINITY | NA | | | |
| FLUID LEVEL | 182 FT | | | |
| LOGGED CEMENT TOP | NA | | | |
| WELLHEAD PRESSURE | 0 PSI | | | |
| MAXIMUM HOLE DEVIATION | NA | | | |
| NOMINAL LOGGING SPEED | 10 F/MN | | | |
| MAX. RECORDED TEMP. | 275 DEGF | | | |
| REFERENCE LOG | BAKER HUGHES CBL | | | |
| REFERENCE LOG DATE | 22-MAY-2015 | | | |
| EQUIP. NO. | LOCATION | 6685 | GRAND JCT | |
| RECORDED BY | W. QUIGLEY | | | |
| WITNESSED BY | MR. COLT STEWART | | | |

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 |
| | | |

| CASING RECORD | | | | |
|---------------|-----------|-------|------|----------|
| SIZE | WEIGHT | GRADE | FROM | TO |
| 4.5 IN | 11.6 LB/F | | 0 FT | 12409 FT |

REMARKS

RUN 2 TRIP 1: ALL DATA ON THIS LOG IS DEPTH SHIFTED AND CORRELATED TO THE GAMMA-RAY CURVE ON BAKER HUGHES BOND LOG DATED 22-MAY-2015

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 = 275 degF

SJ = 7344'-7367'

THANK YOU FOR CHOOSING BAKER HUGHES WIRELINE SERVICES
CREW: HOLLAR/FLEMING/QUIGLEY

EQUIPMENT DATA

| RUN | TRIP | TOOL | SERIES NO. | SERIAL NO. | POSITION |
|-----|------|---------|------------|------------|----------|
| 1 | 1 | PCM | 8250EA | 15100 | FREE |
| 1 | 1 | TEL/CCL | 8248EA | 150623 | FREE |
| 1 | 1 | GR | 8262XA | 10317216 | FREE |
| 1 | 1 | RPM | 8281EA | 10273848 | FREE |
| 1 | 1 | RPM | 8283PA | 10169251 | FREE |
| 1 | 1 | RPM | 8281FA | 10191667 | FREE |
| 1 | 1 | TEMP | 8255XA | 176973 | FREE |

MAIN SECTION PNC-3D MODE

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

Updates: 1 Patches: 7

Plotted: Fri May 22 23:39:47 2015

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n353a02.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 6707.750 ft BOTTOM DEPTH: 12411.250 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 | " | " |
| | CASING SIZE | 4.50 | in | " | " |
| | MATRIX | SANDSTONE | | " | " |
| | CORRECTION BUFFER | 11 | | " | " |

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n353a03.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 3933.250 ft BOTTOM DEPTH: 6761.750 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 | " | " |
| | CASING SIZE | 4.50 | in | " | " |
| | MATRIX | SANDSTONE | | " | " |
| | CORRECTION BUFFER | 11 | | " | " |

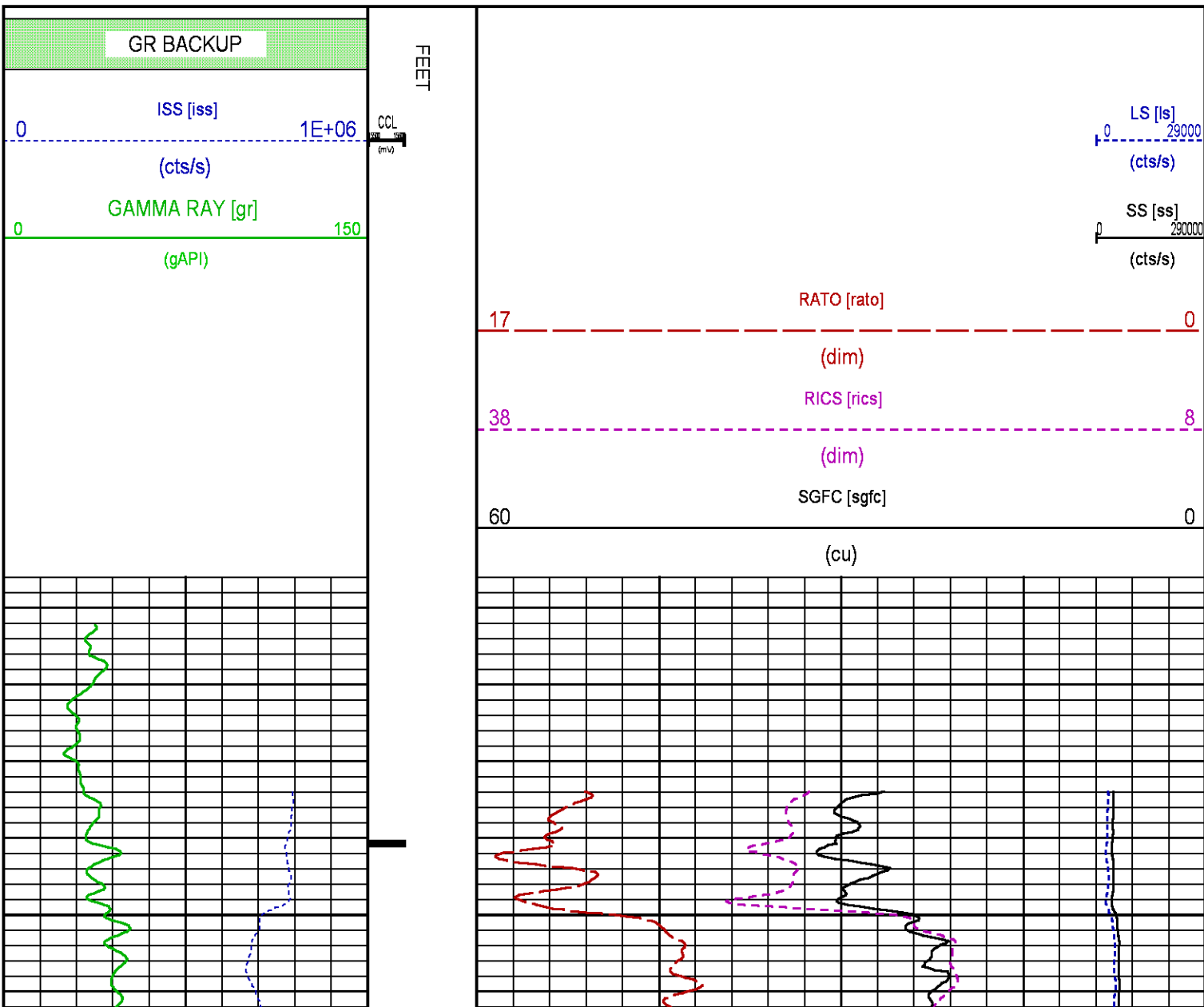
CURVE DESCRIPTION REPORT

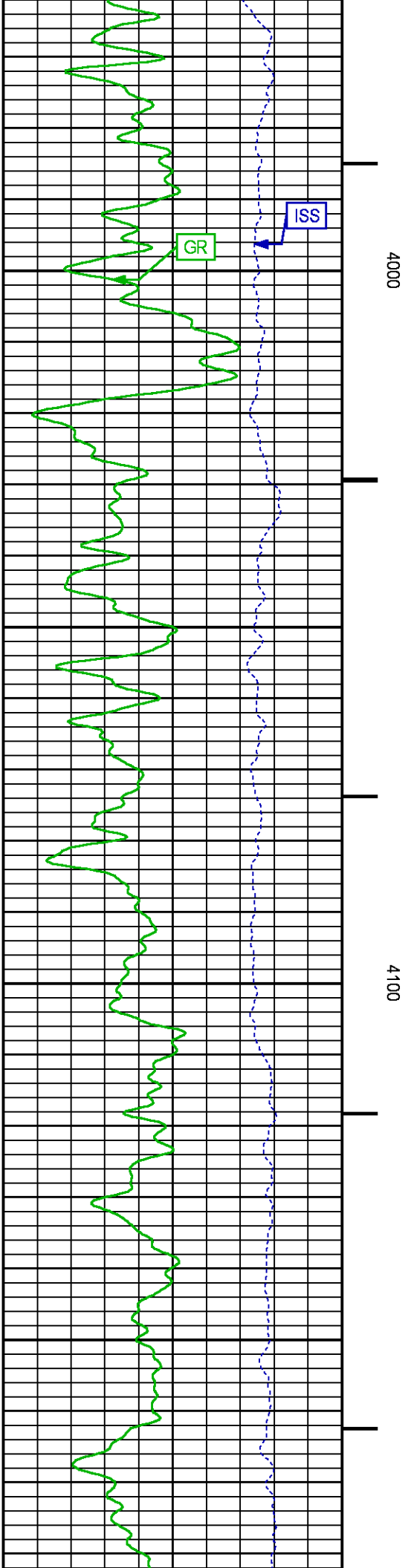
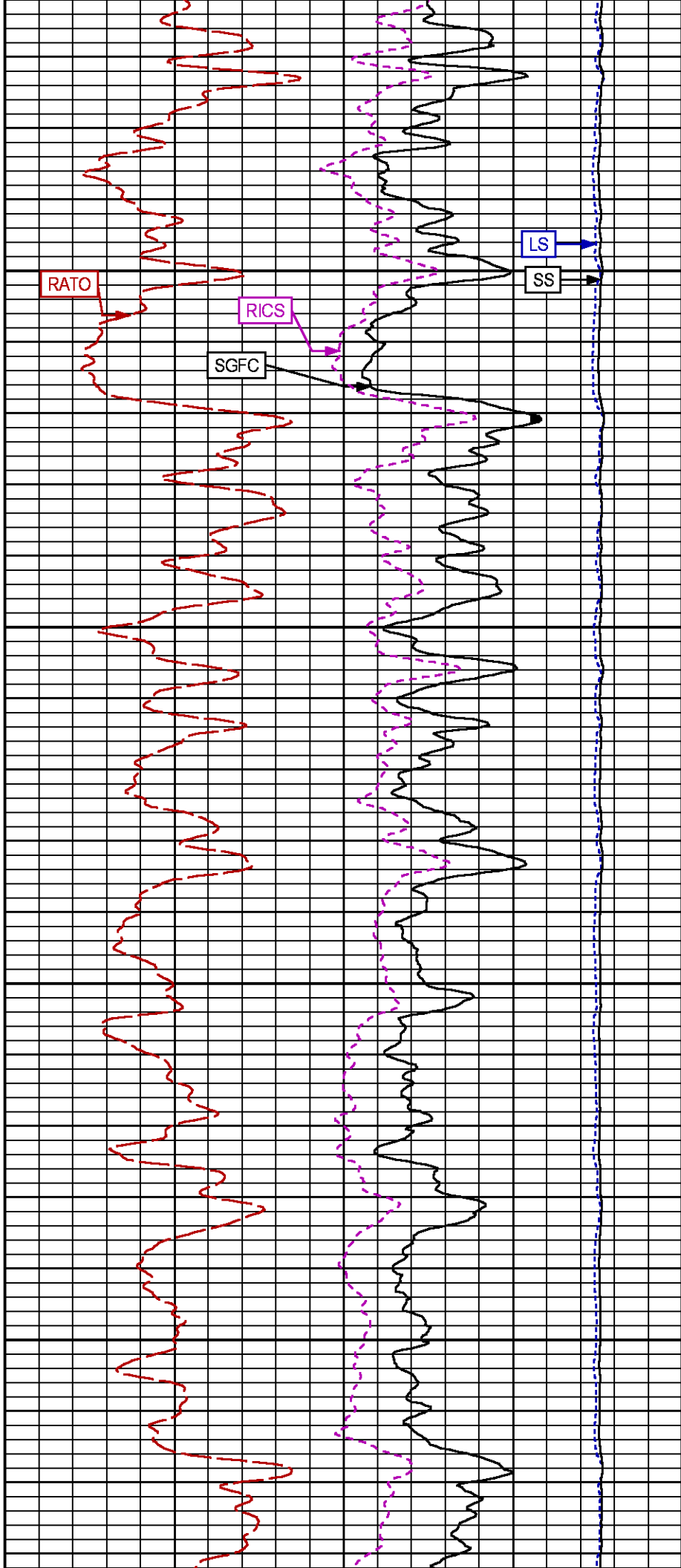
| CURVE NAME | CREATION DATE | CURVE DESCRIPTION |
|------------|----------------------|---|
| F1:CCL | May 22 20:18:57 2015 | CASING COLLAR LOCATOR |
| F1:GR | May 22 20:18:57 2015 | GAMMA RAY |
| F1:ISS | May 22 20:18:57 2015 | INELASTIC SHORT SPACE COUNT RATE |
| F1:LS | May 22 20:18:57 2015 | LONG SPACE COUNT RATE |
| F1:RATO | May 22 20:18:57 2015 | SHORT/LONG SPACE COUNT RATE RATIO |
| F1:RICS | May 22 20:18:57 2015 | SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS) |
| F1:SGFC | May 22 20:18:57 2015 | CORRECTED FORMATION SIGMA |
| F1:SS | May 22 20:18:57 2015 | SHORT SPACE COUNT RATE |

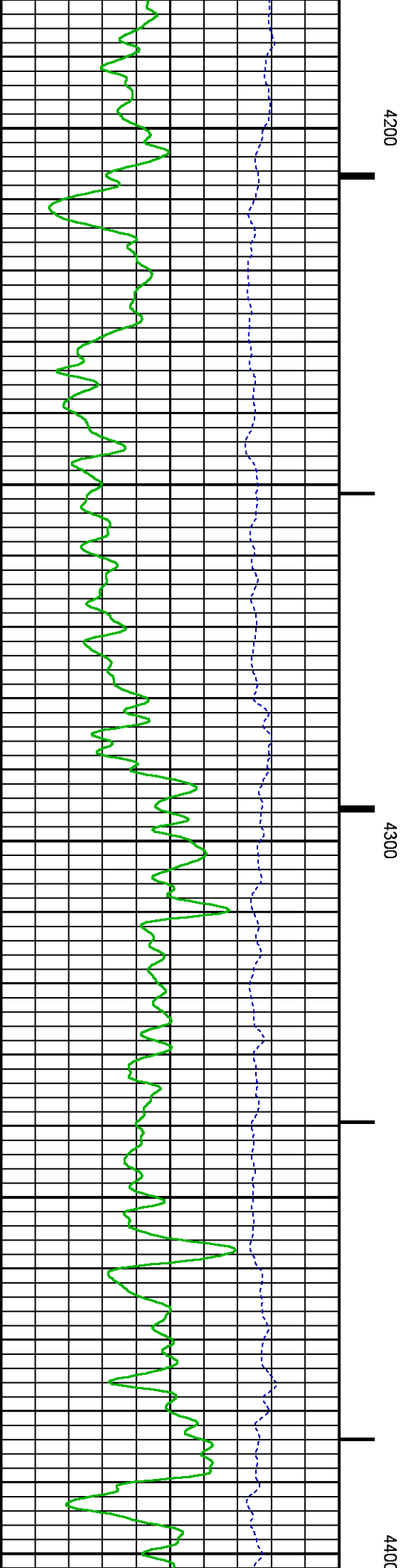
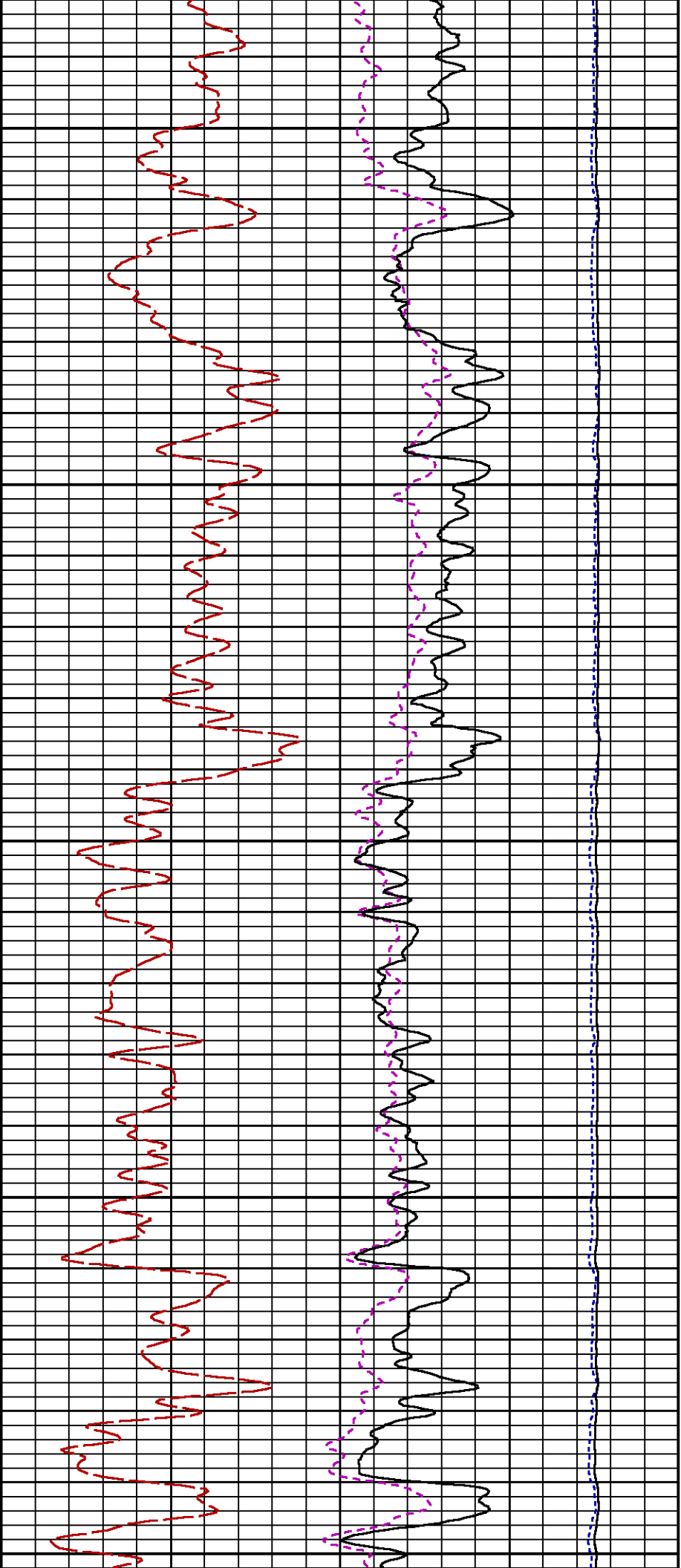
CURVE MEASURE POINT OFFSET

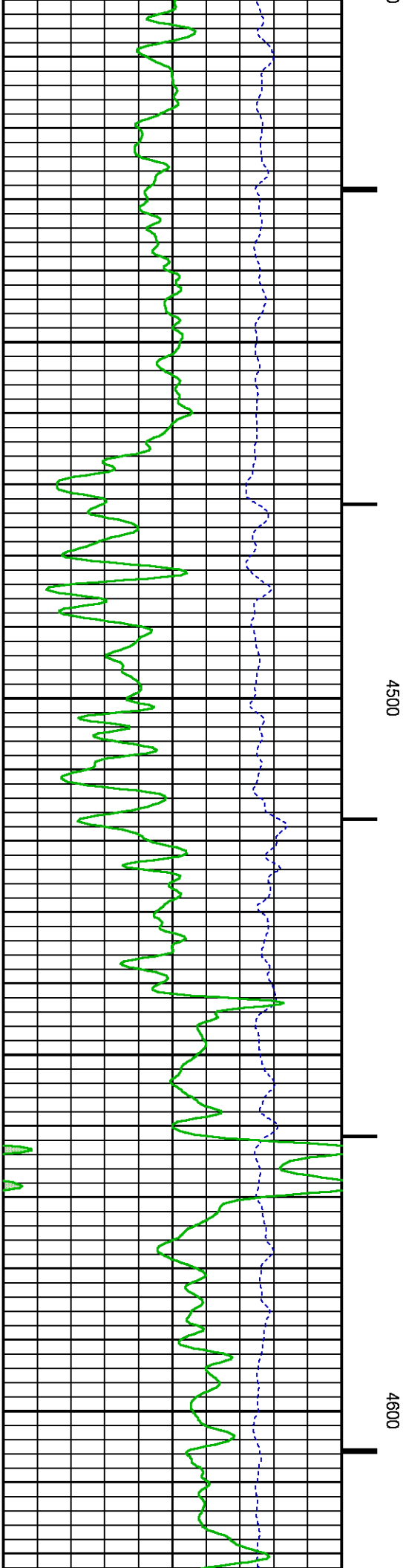
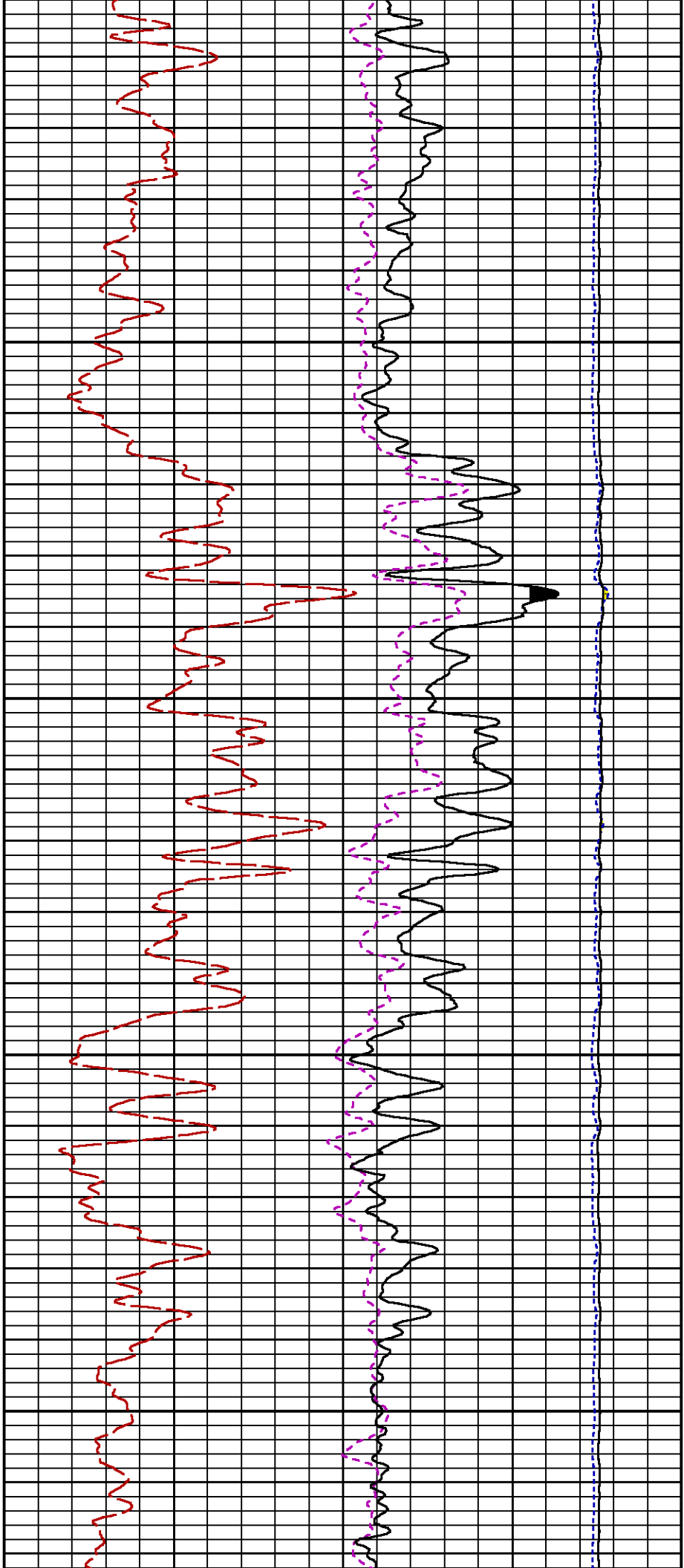
| CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) | CURVE | OFFSET (ft) |
|-------|-------------|-------|-------------|-------|-------------|-------|-------------|
| CCL | 26.00 | ISS | 12.75 | RATO | 12.75 | SGFC | 12.75 |
| GR | 23.00 | LS | 12.75 | RICS | 12.75 | SS | 12.75 |

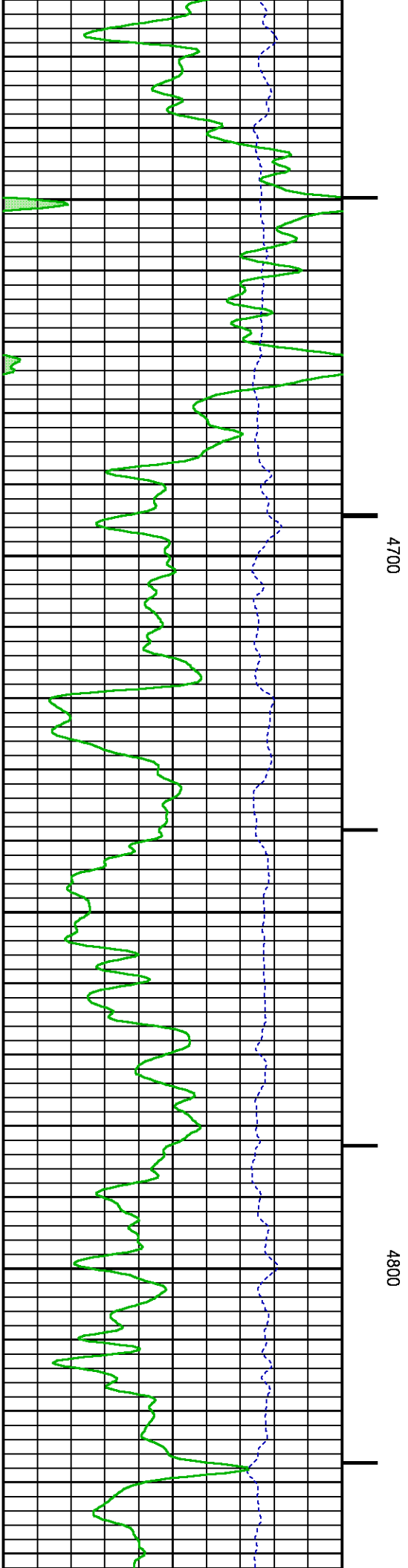
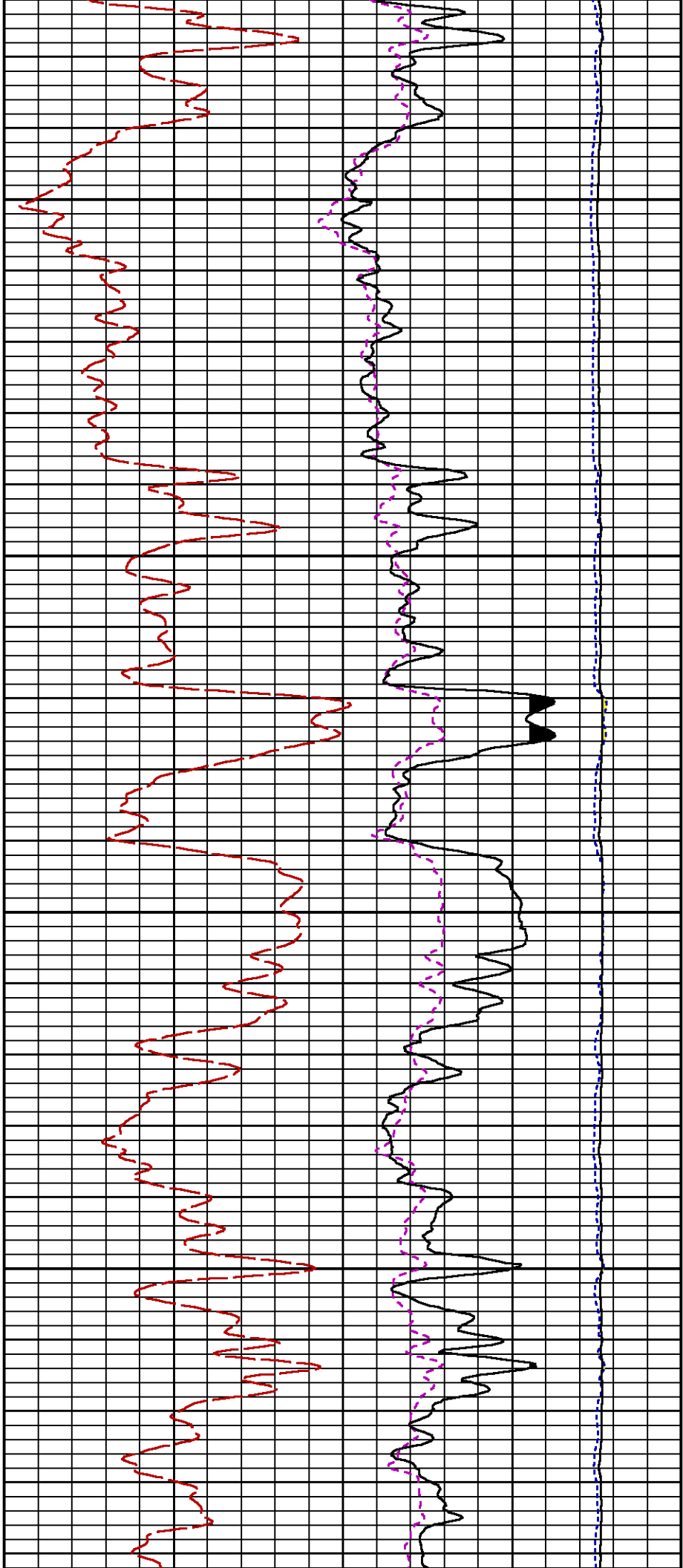
| | |
|---------------|--|
| Presentation | : cas6685:/dat1a/CH096699/RPM_MAIN.fvpdf [5"/100' Scale] |
| Plot Interval | : 3907.25 - 12412.2 Feet |
| Data File 1 | : F1 : cas6685:/dat1a/CH096699/n353aMAIN.xtf |
| Created On | : May 22 14:22:44 2015 |
| Company | : WPX ENERGY |
| Well | : FEDERAL RGU 43-26-198 |
| Field | : SULPHUR CREEK |
| File Interval | : 3907.25 - 12412.2 Feet |
| OCT | : n353a |

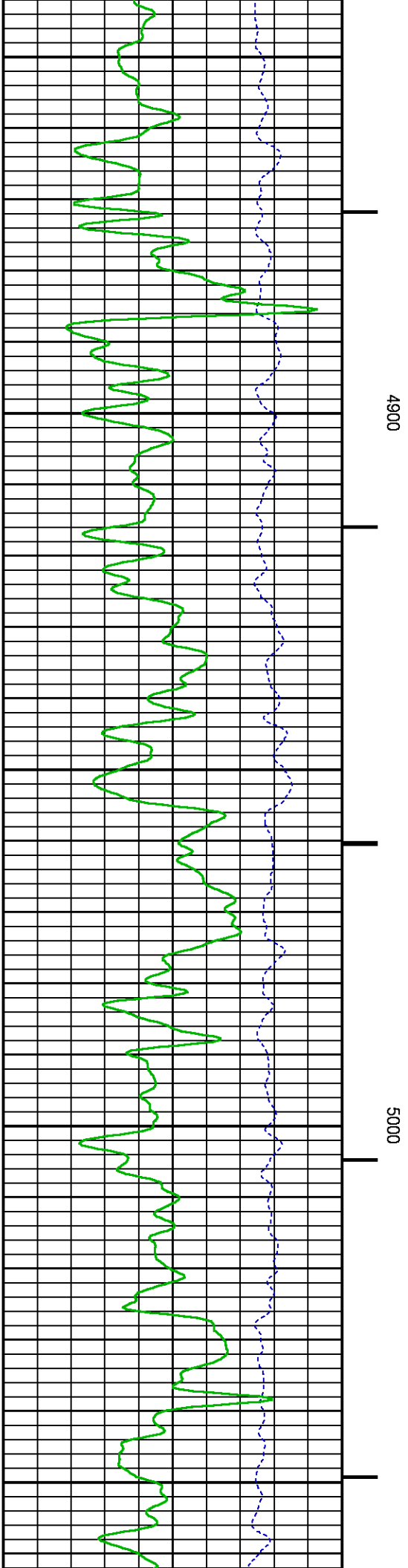
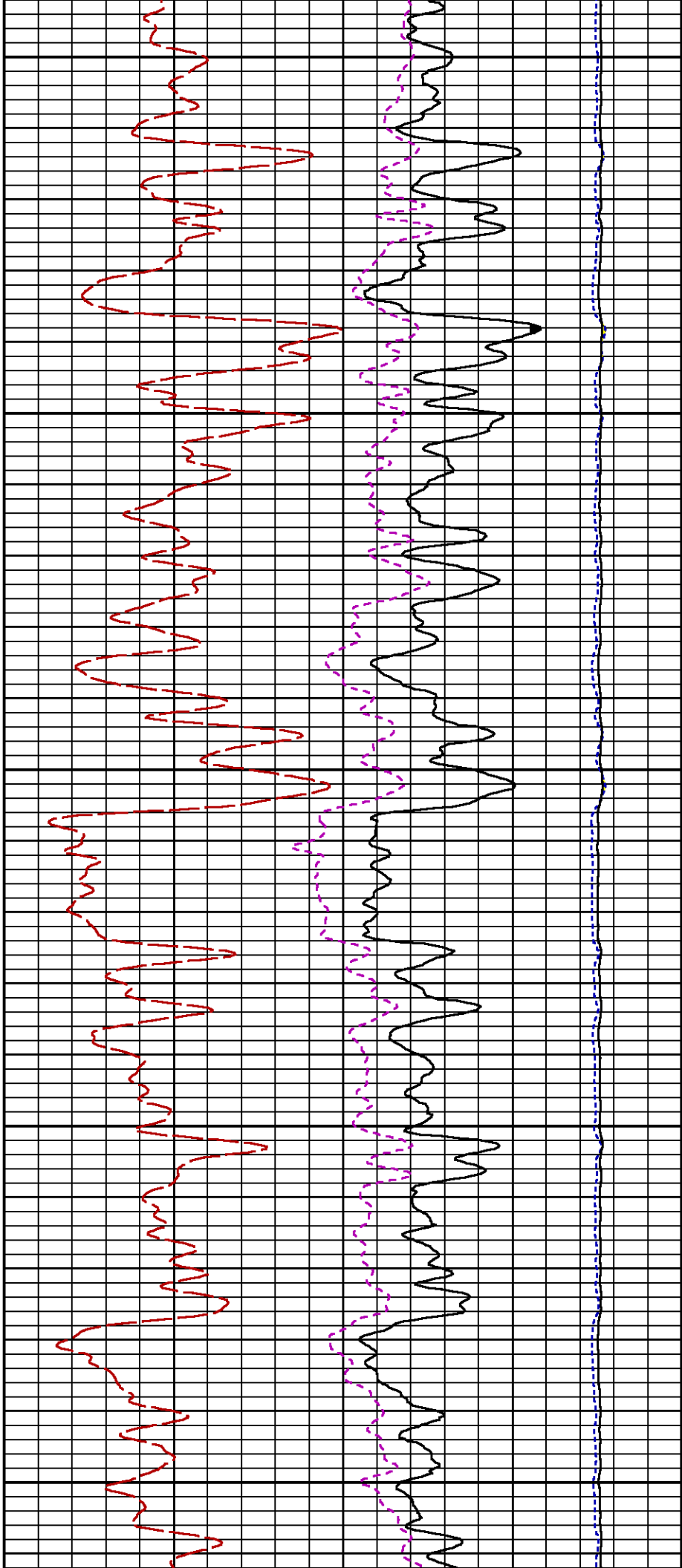


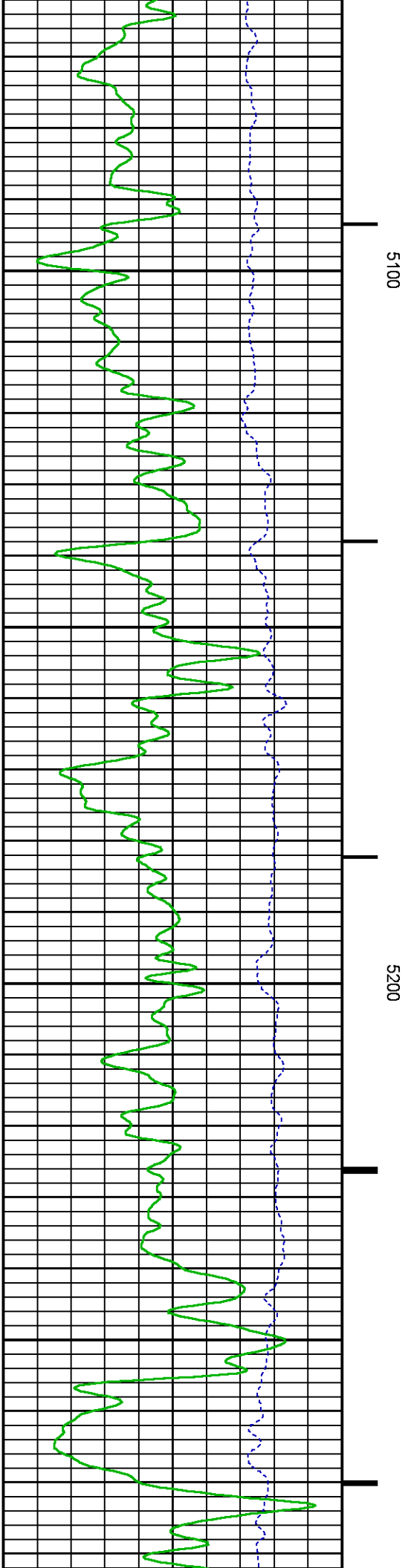
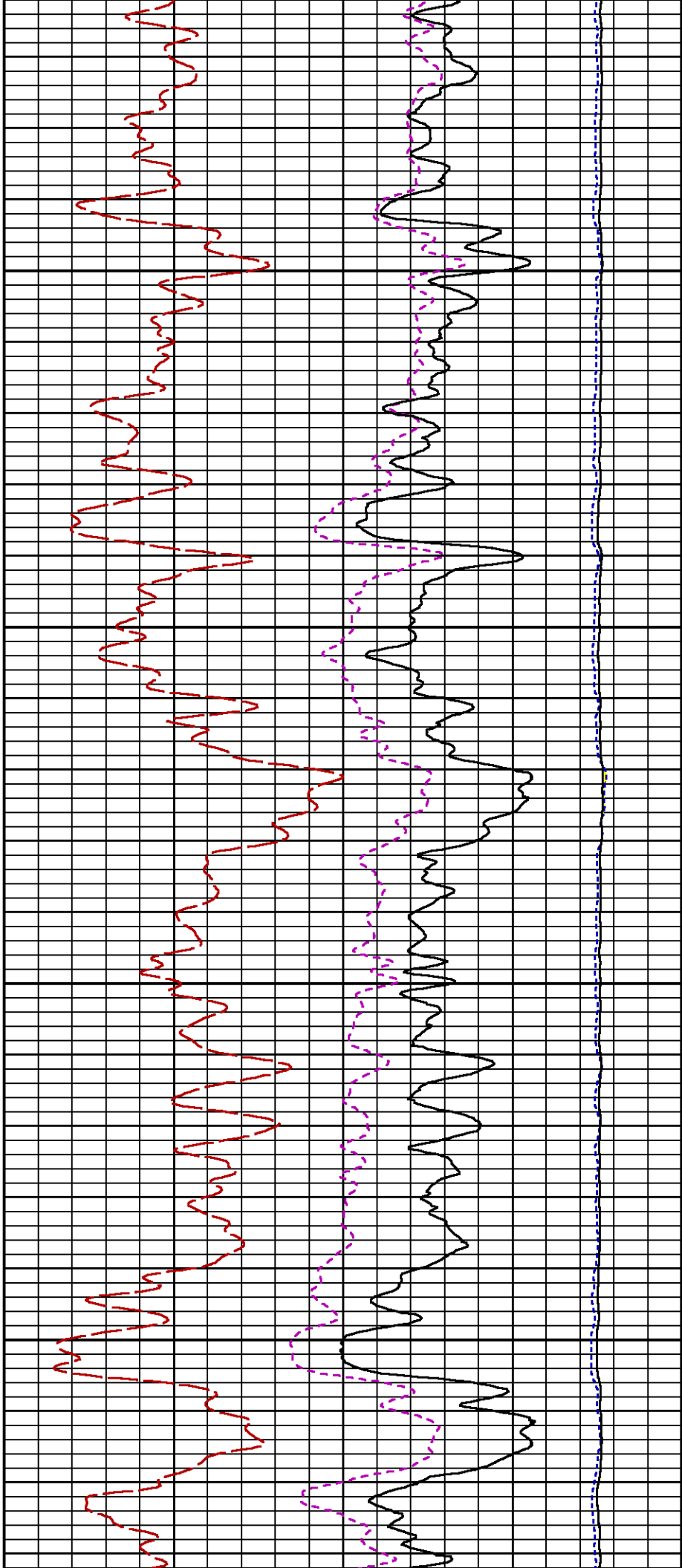


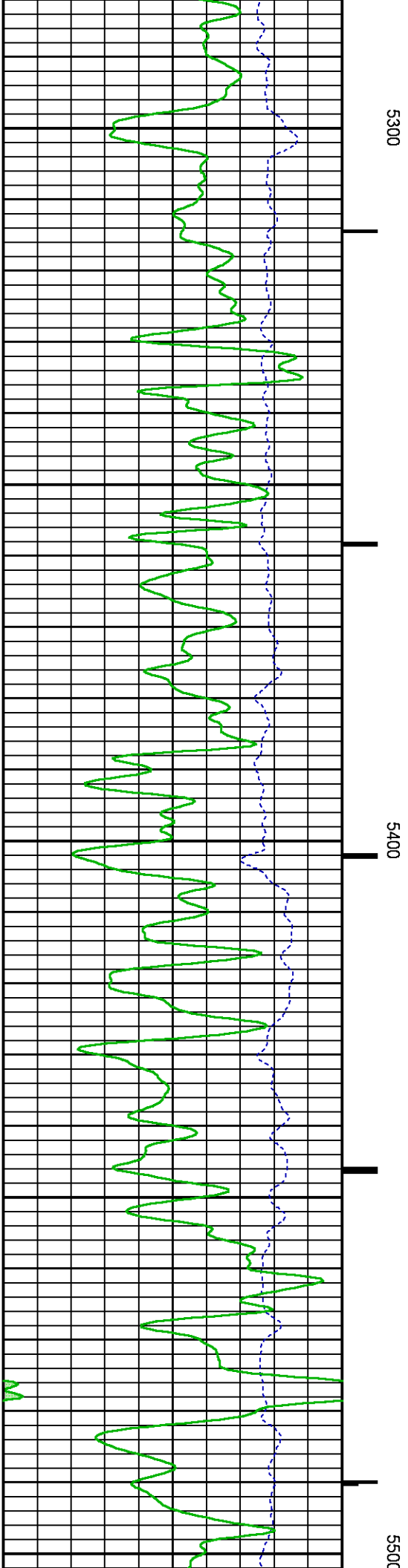
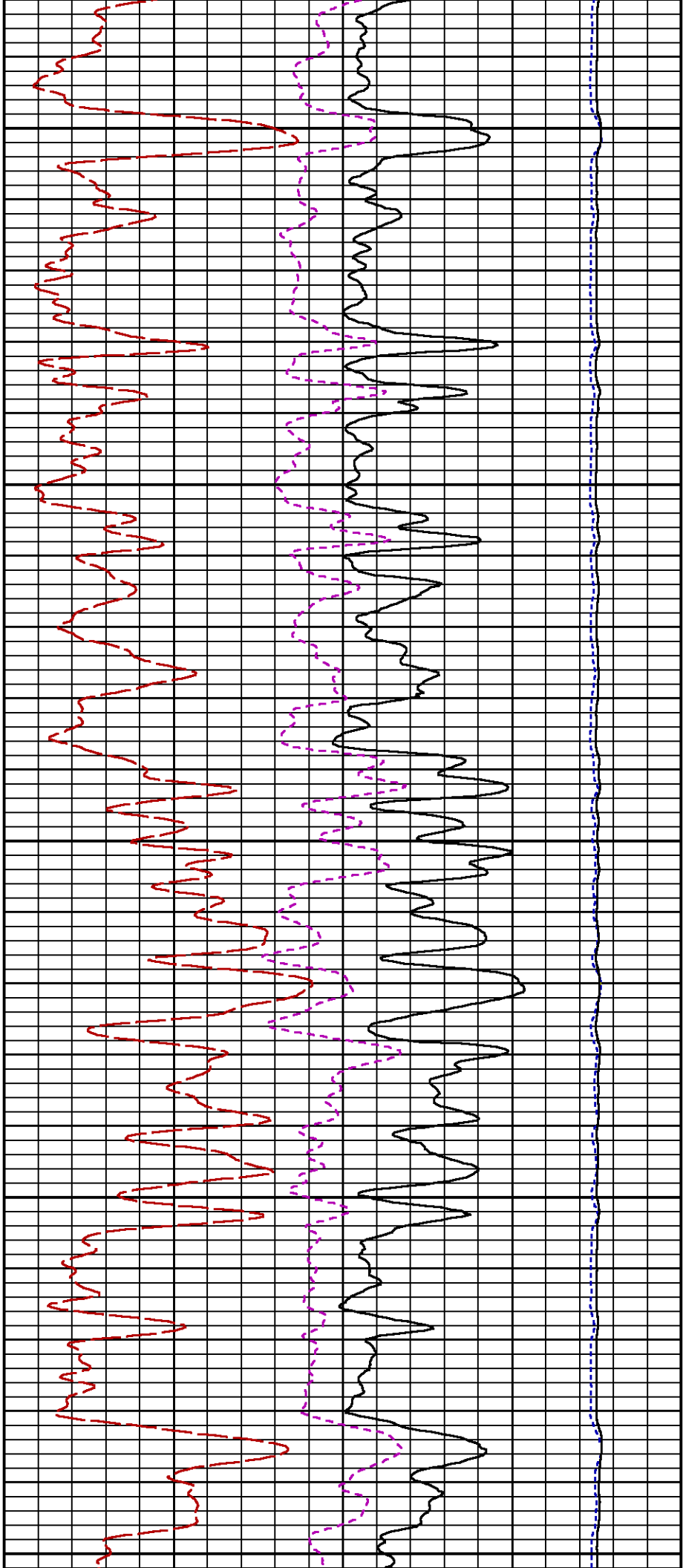


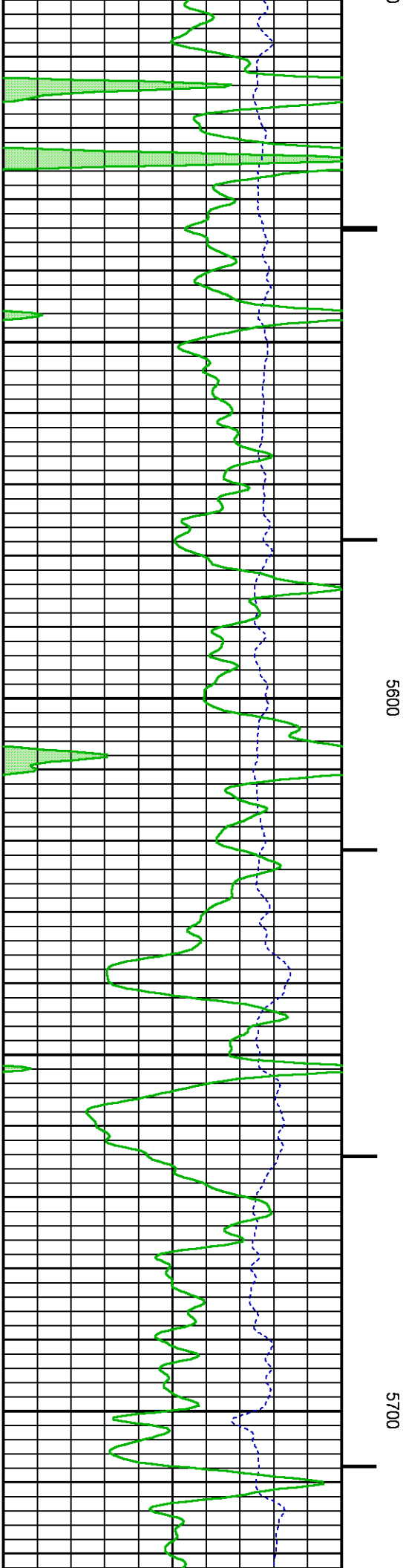
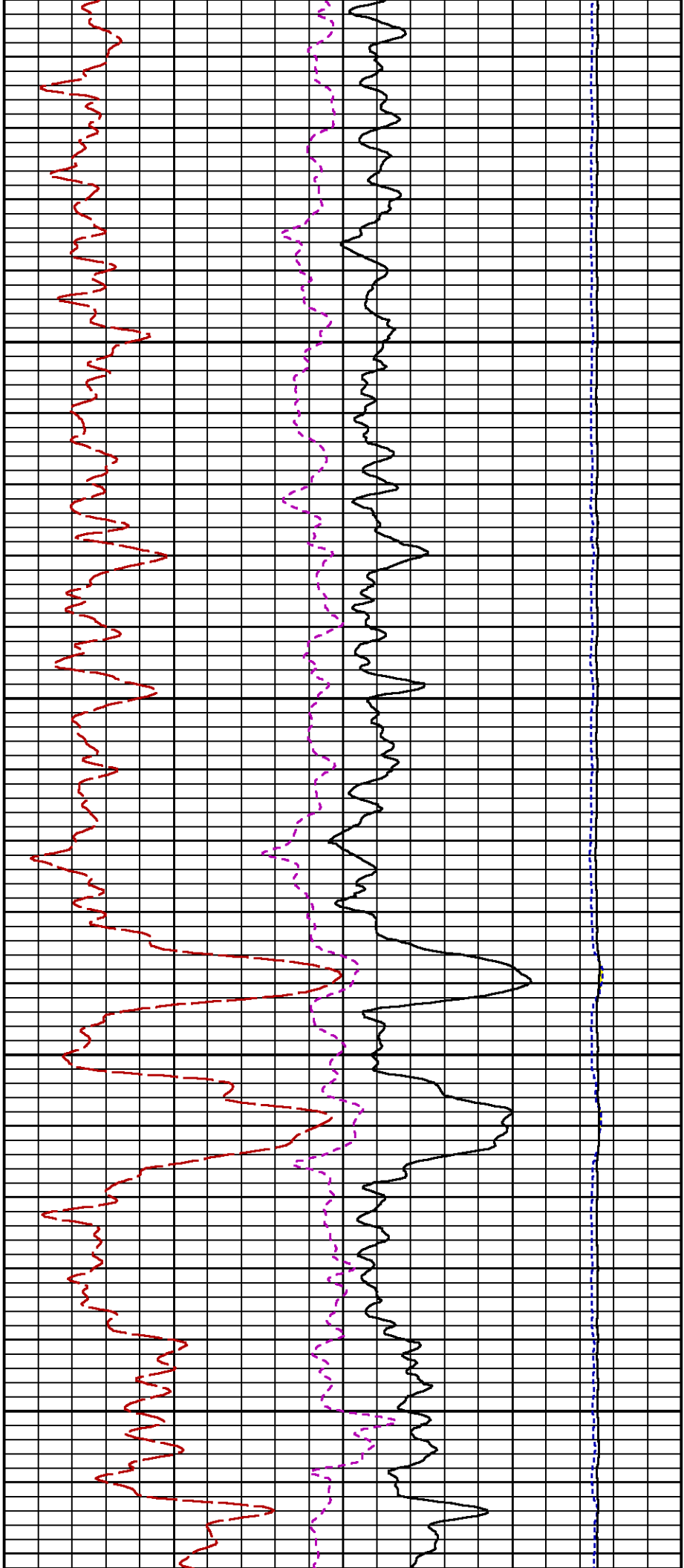


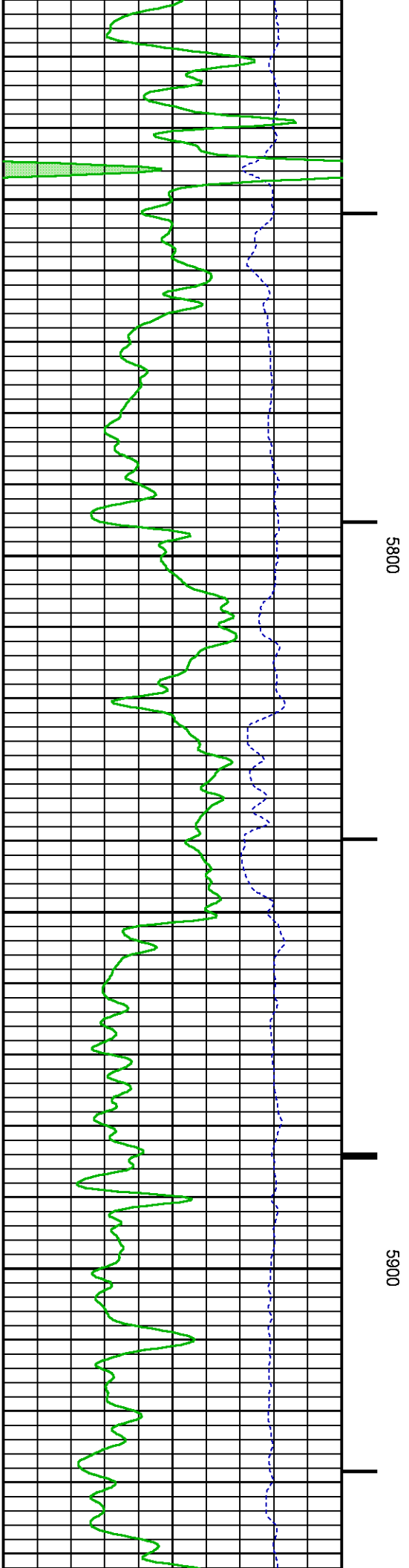
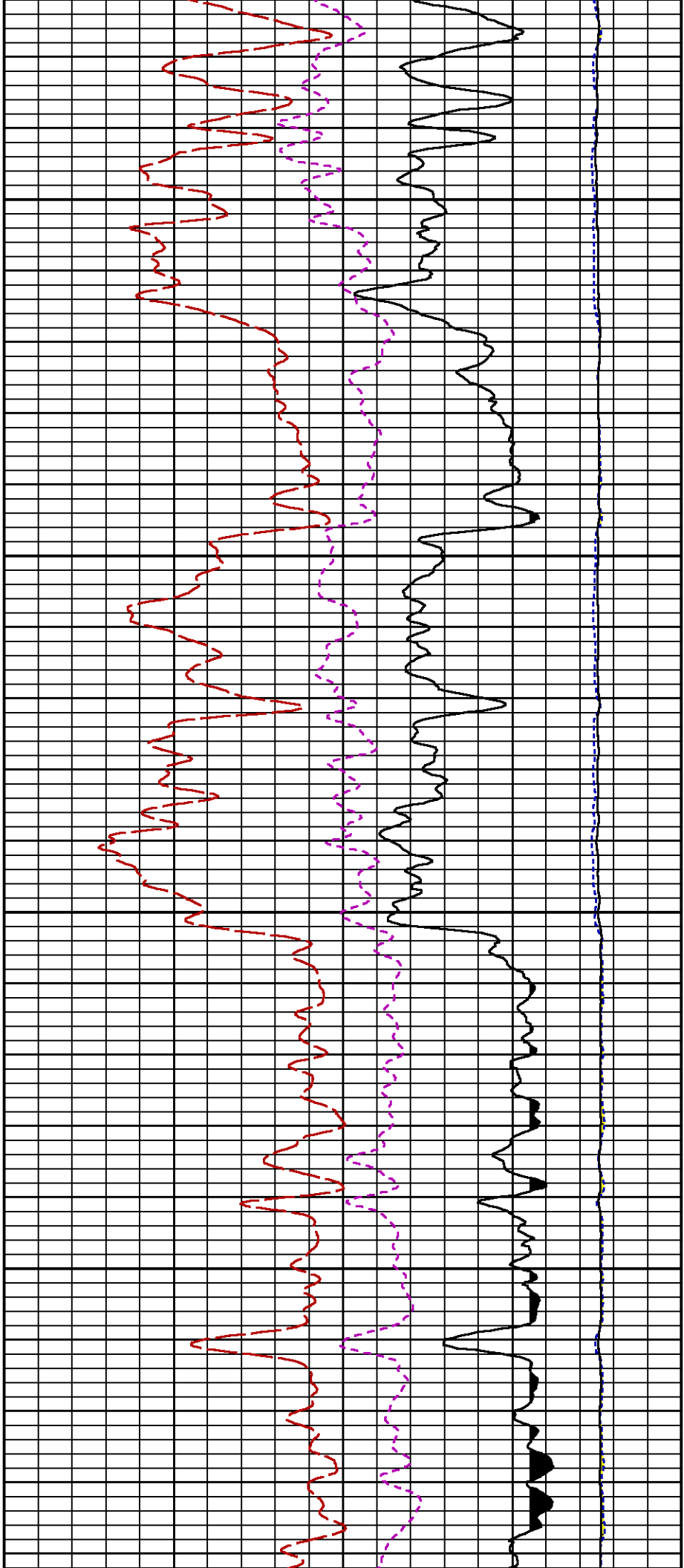


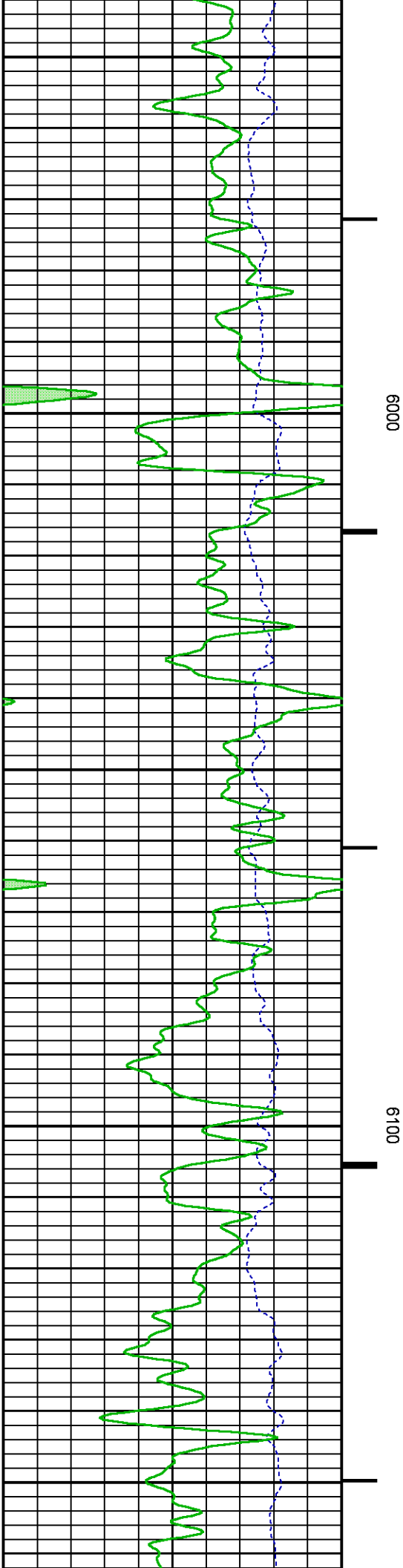
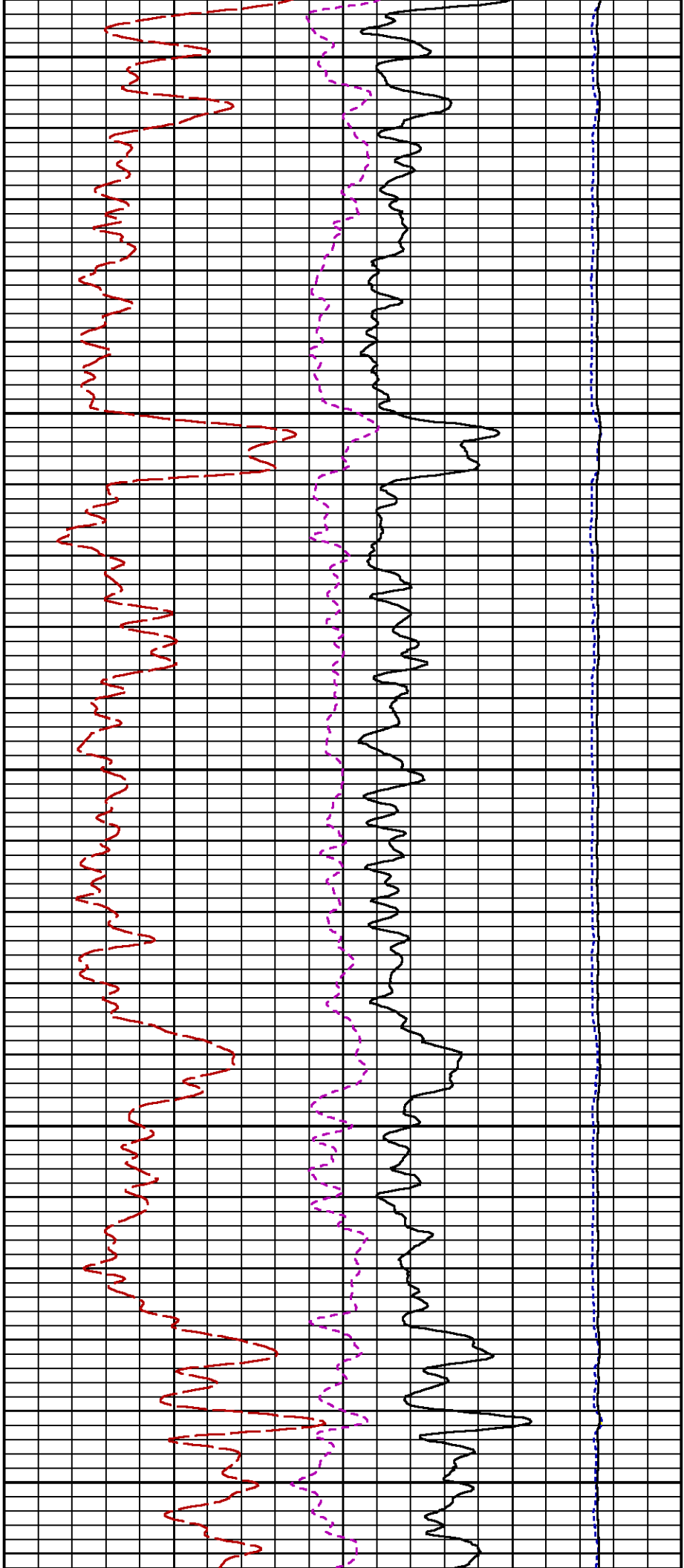


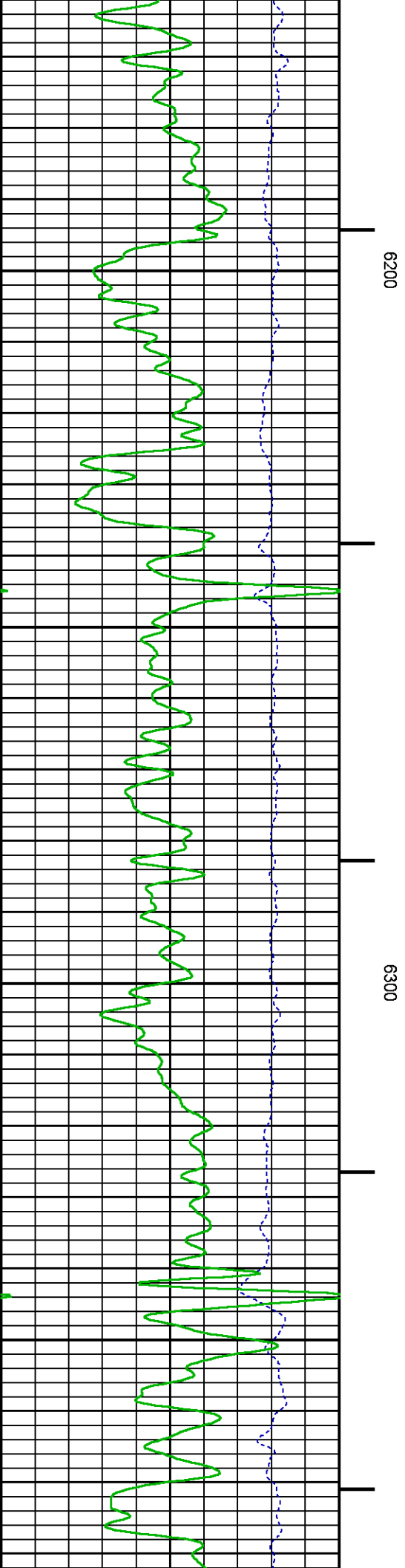
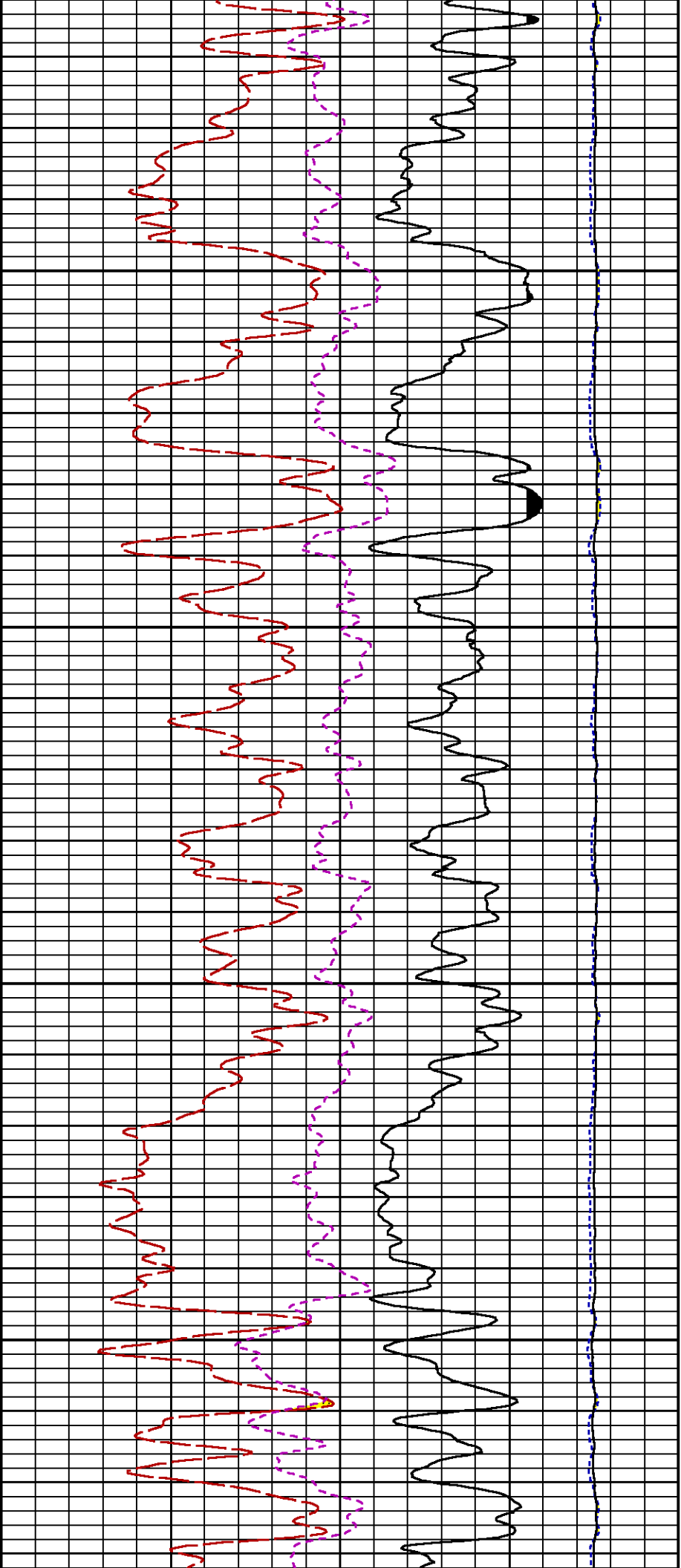


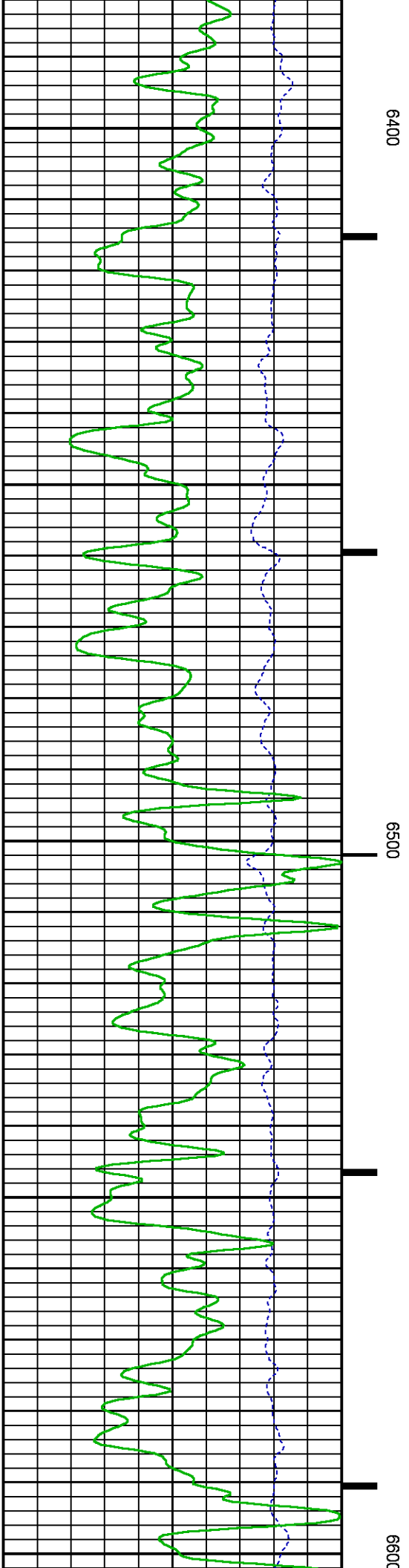
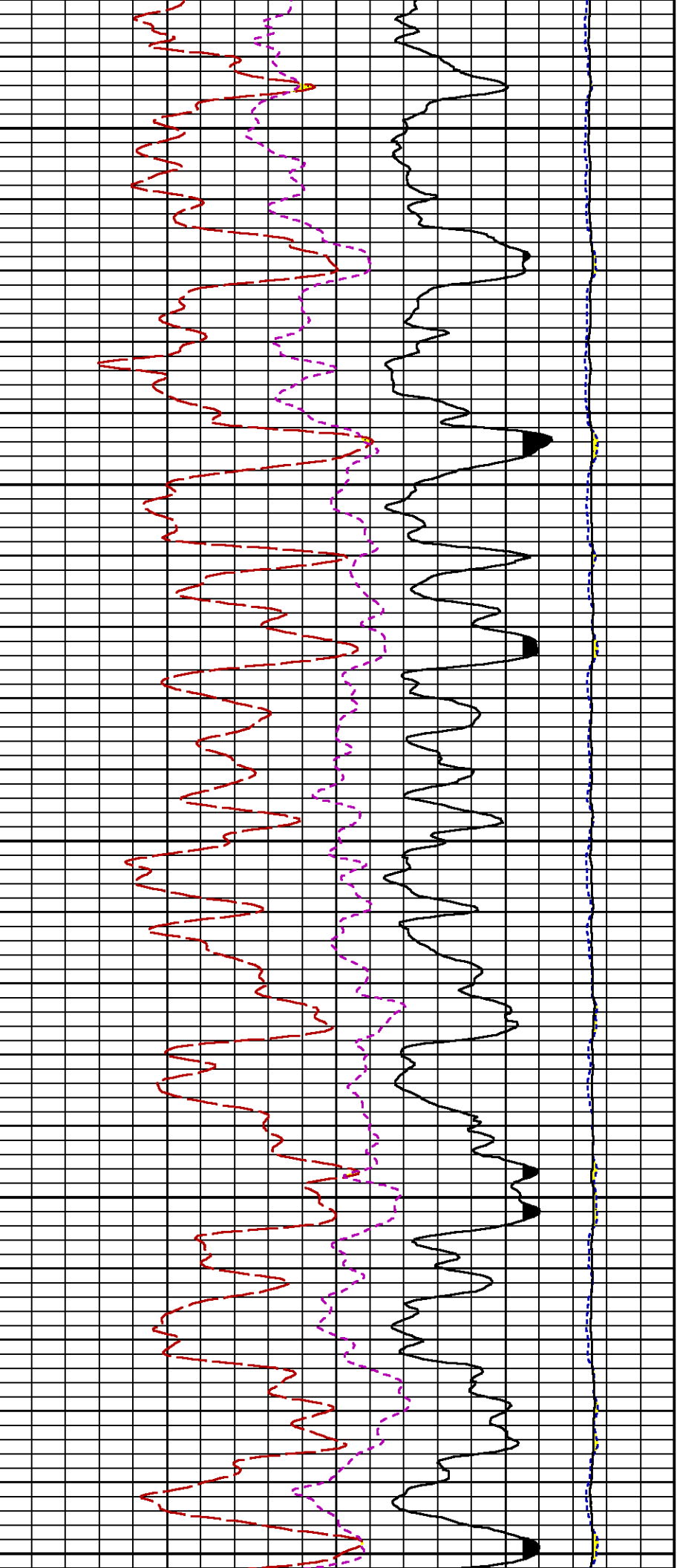


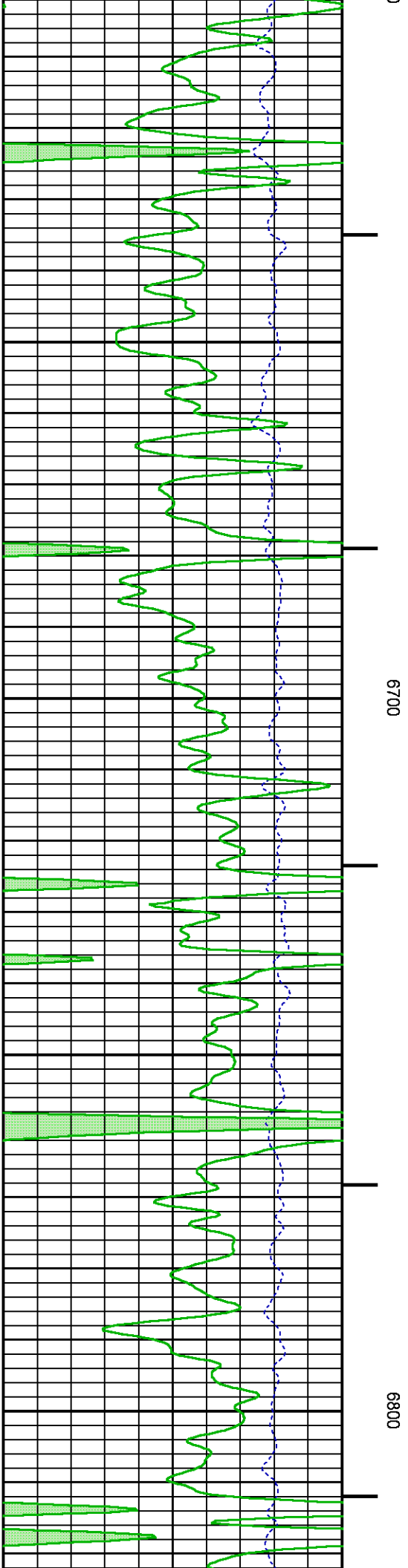
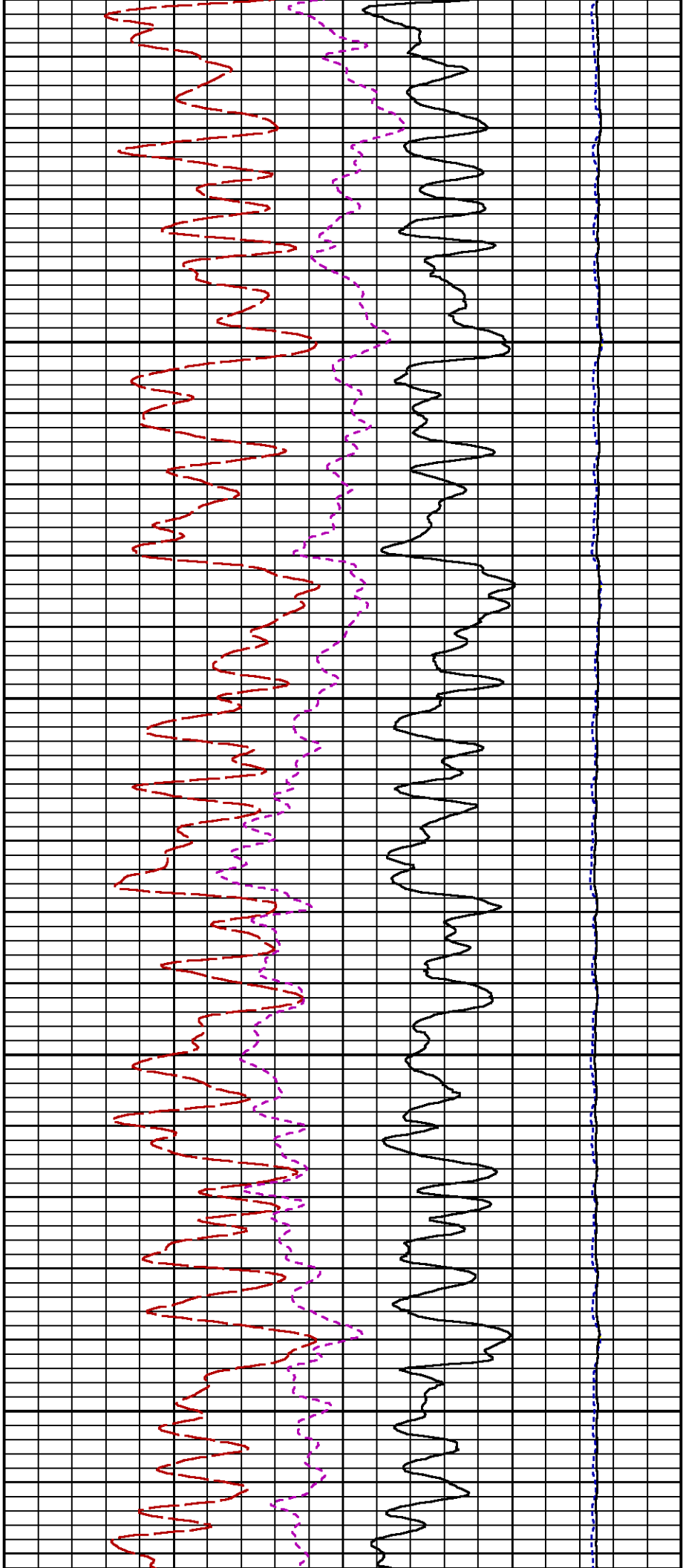


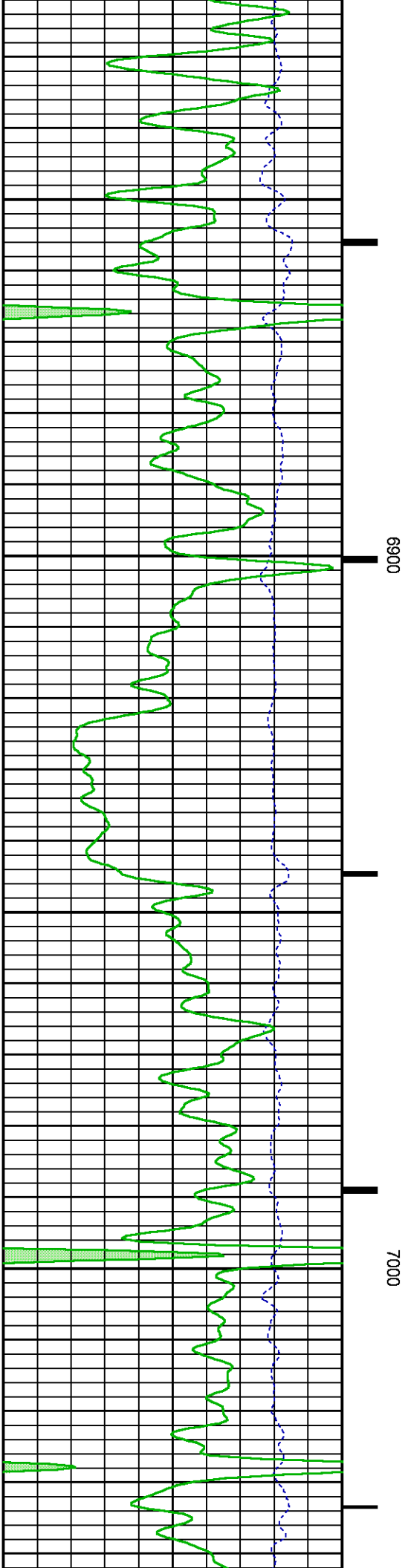
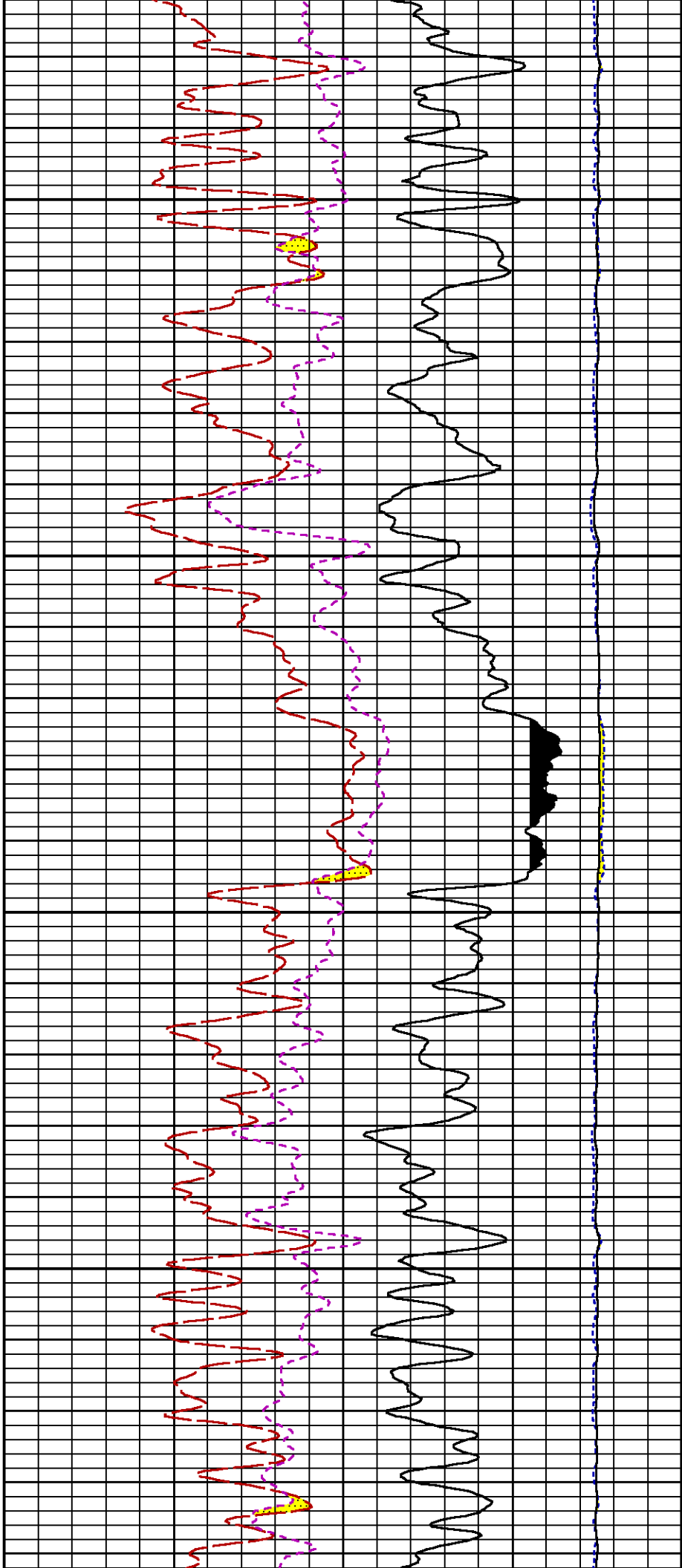


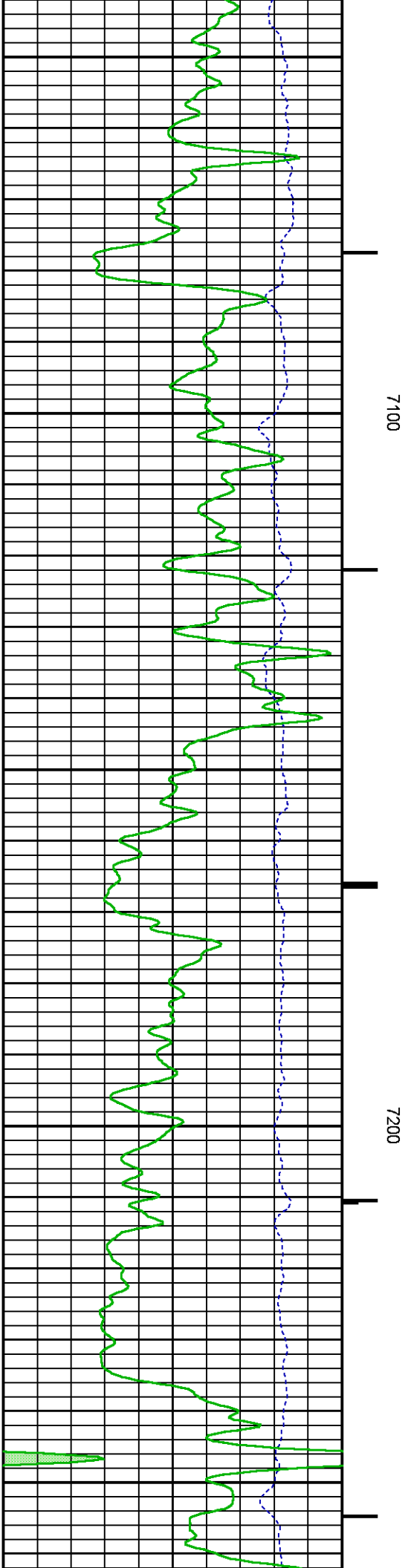
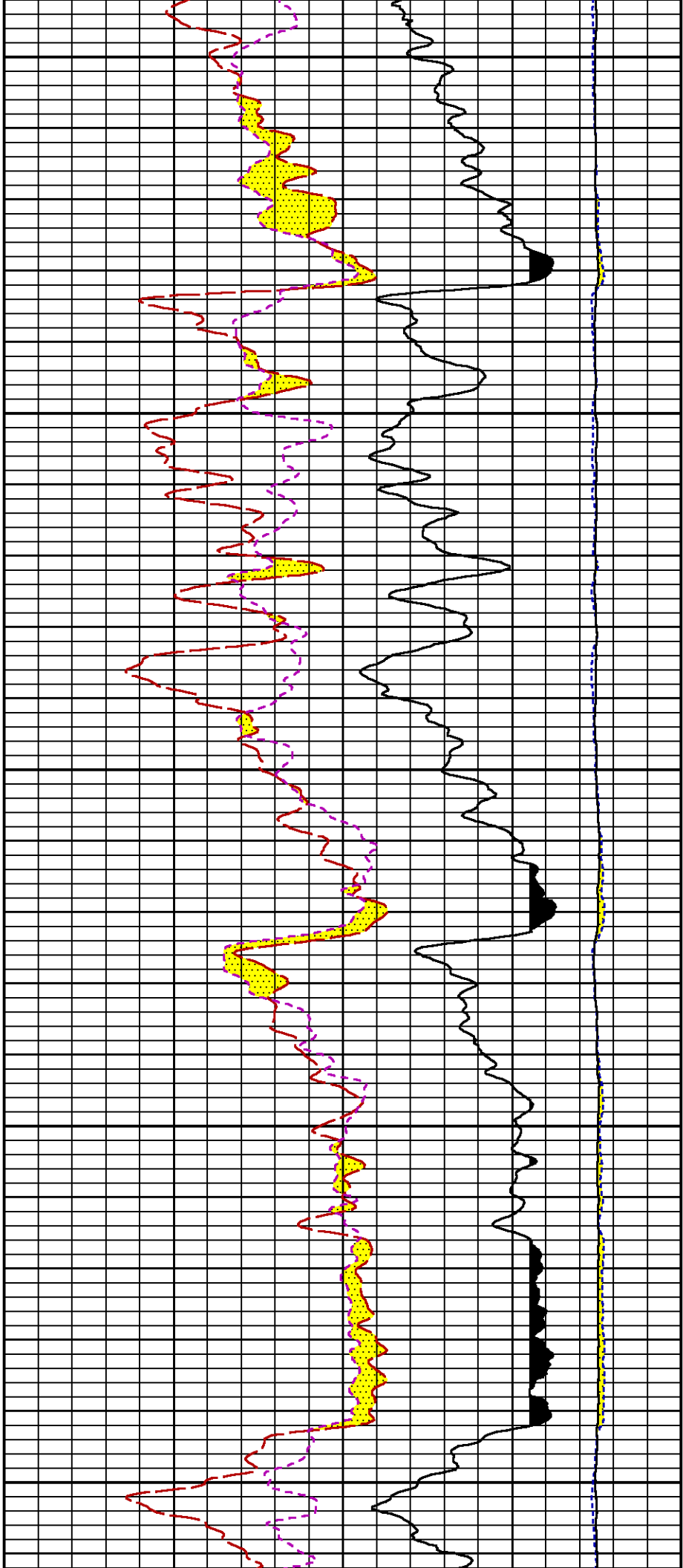


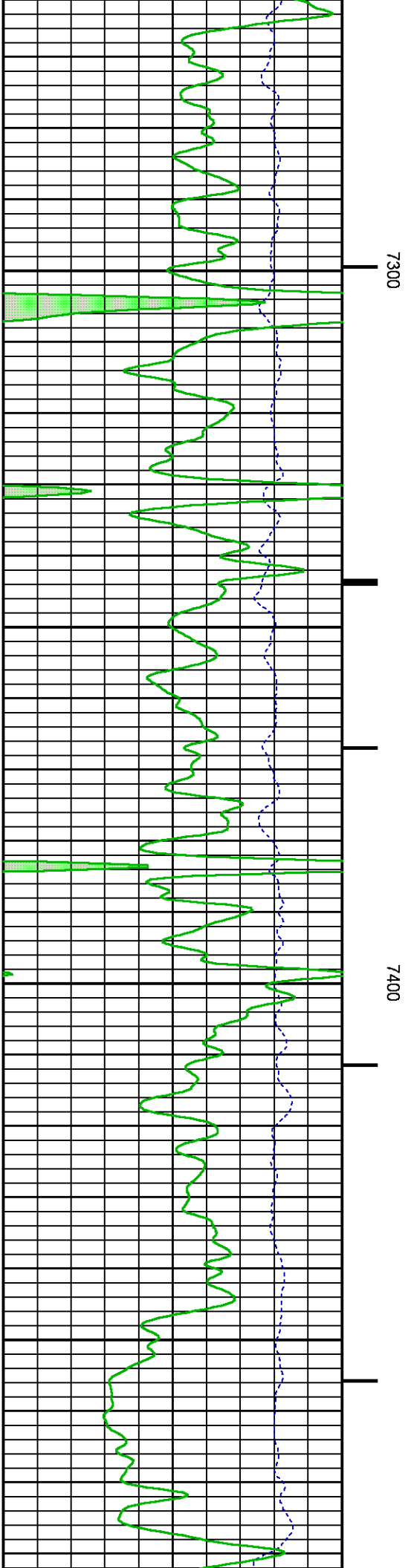
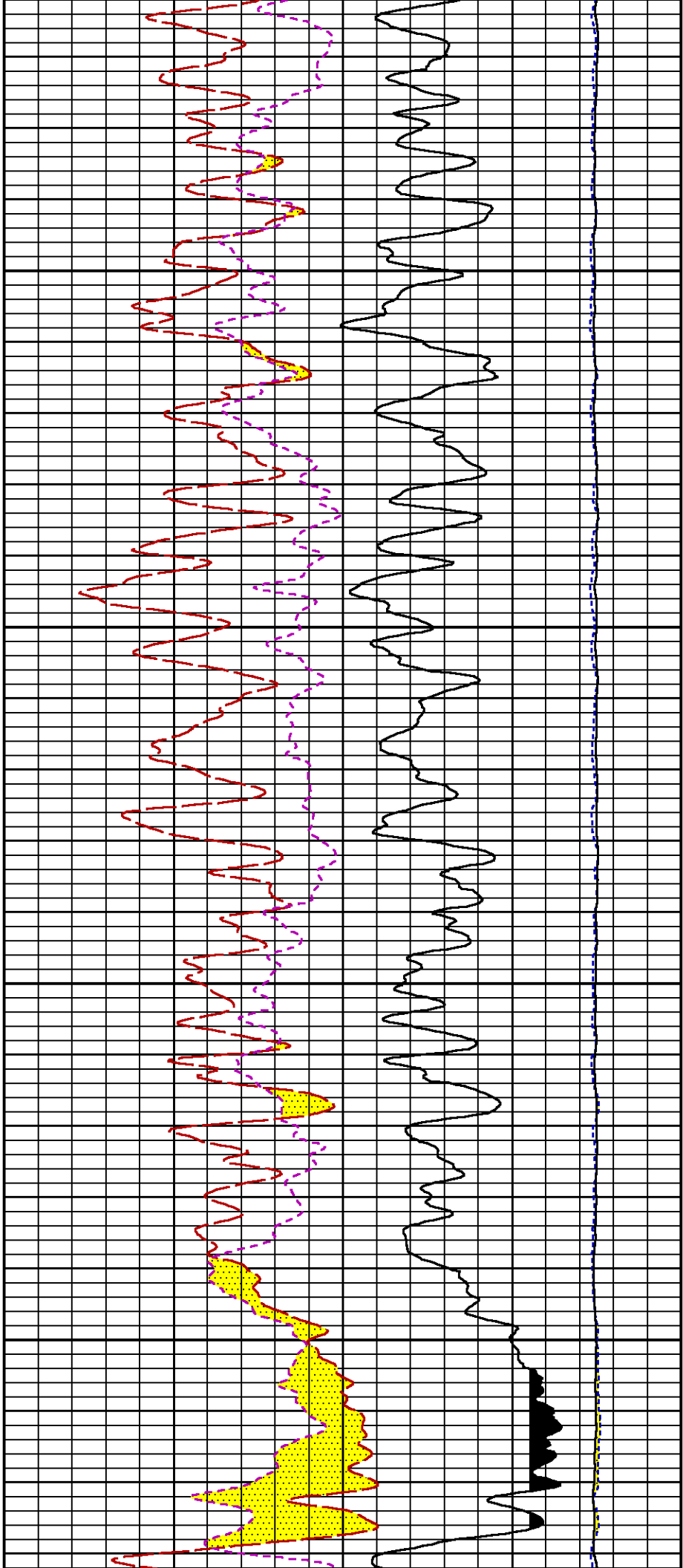


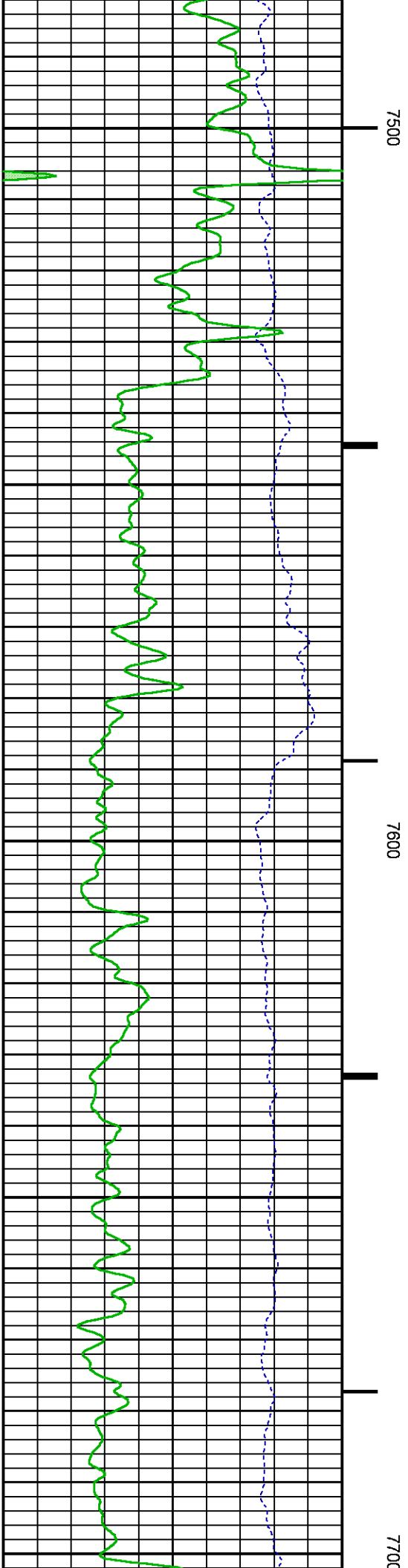
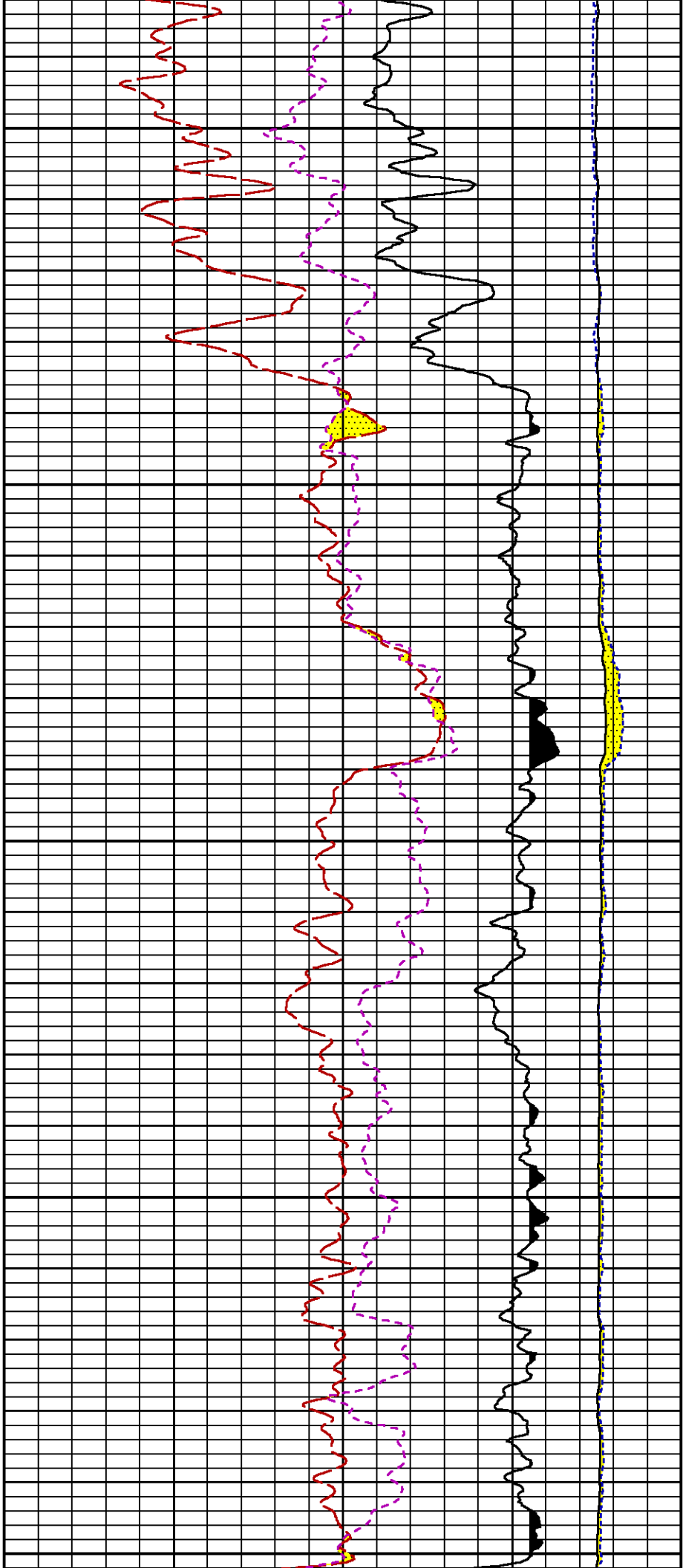


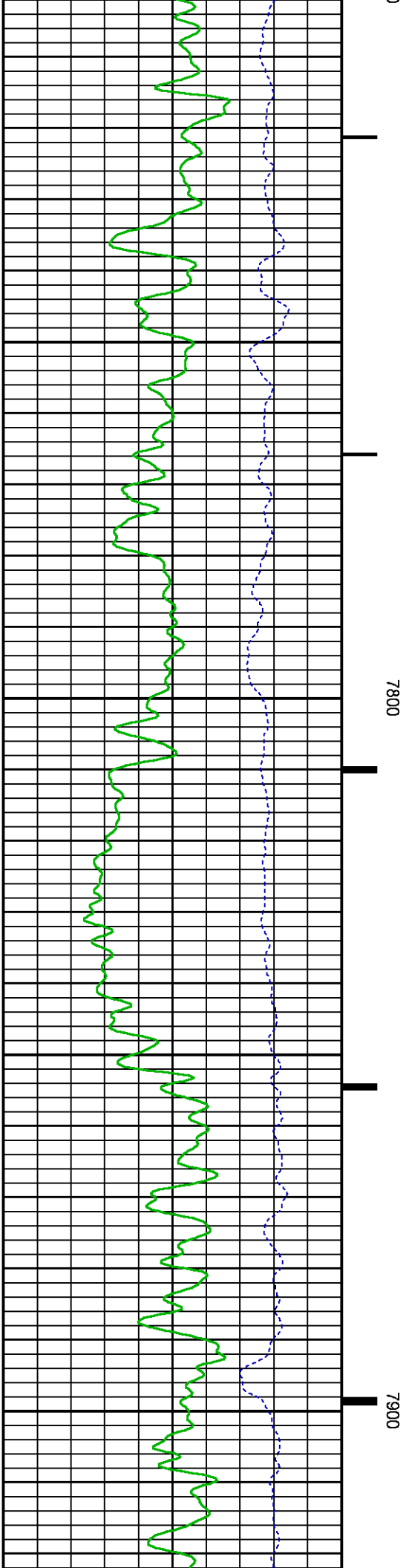
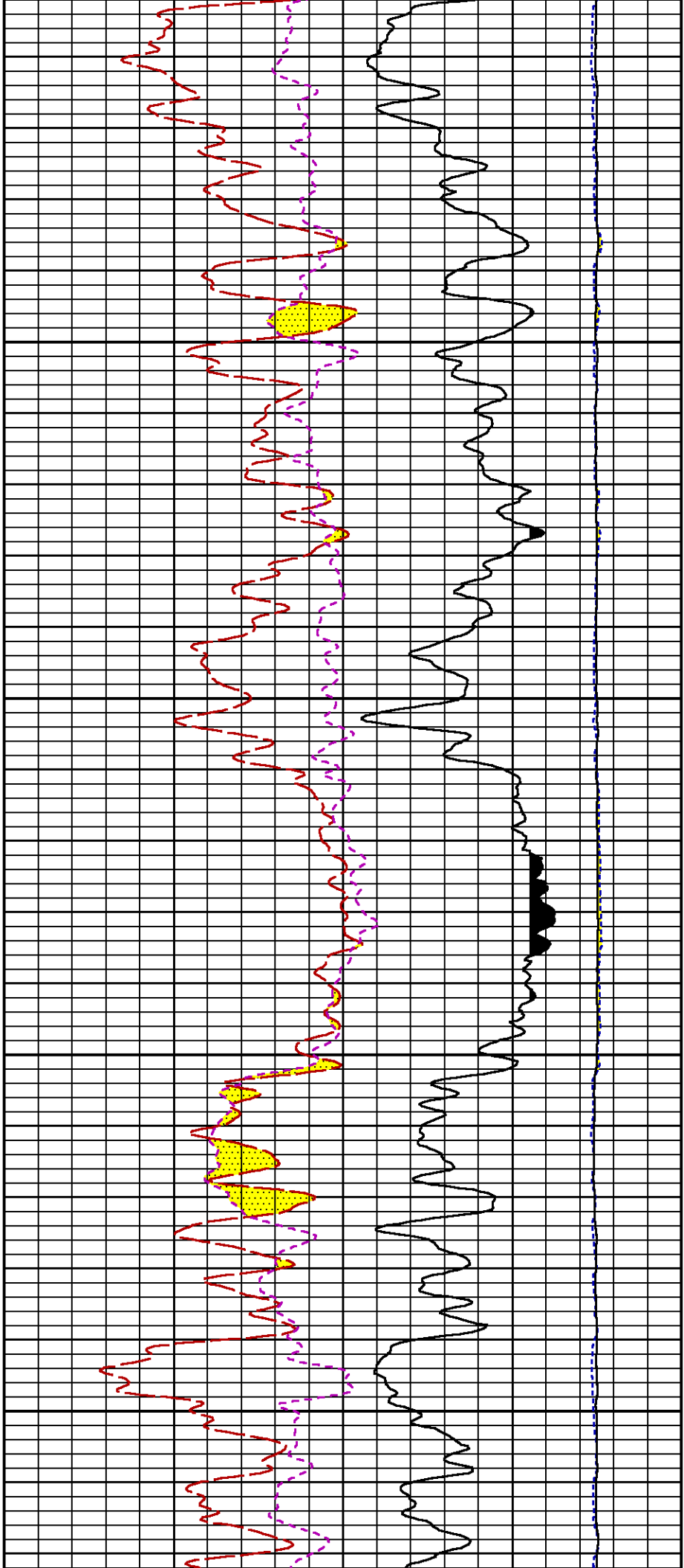


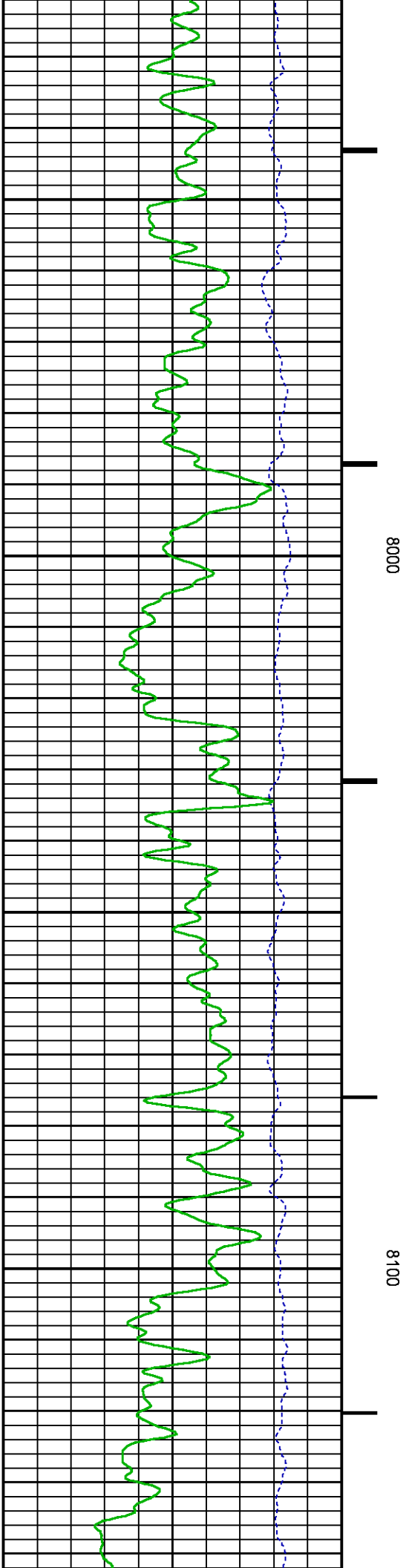
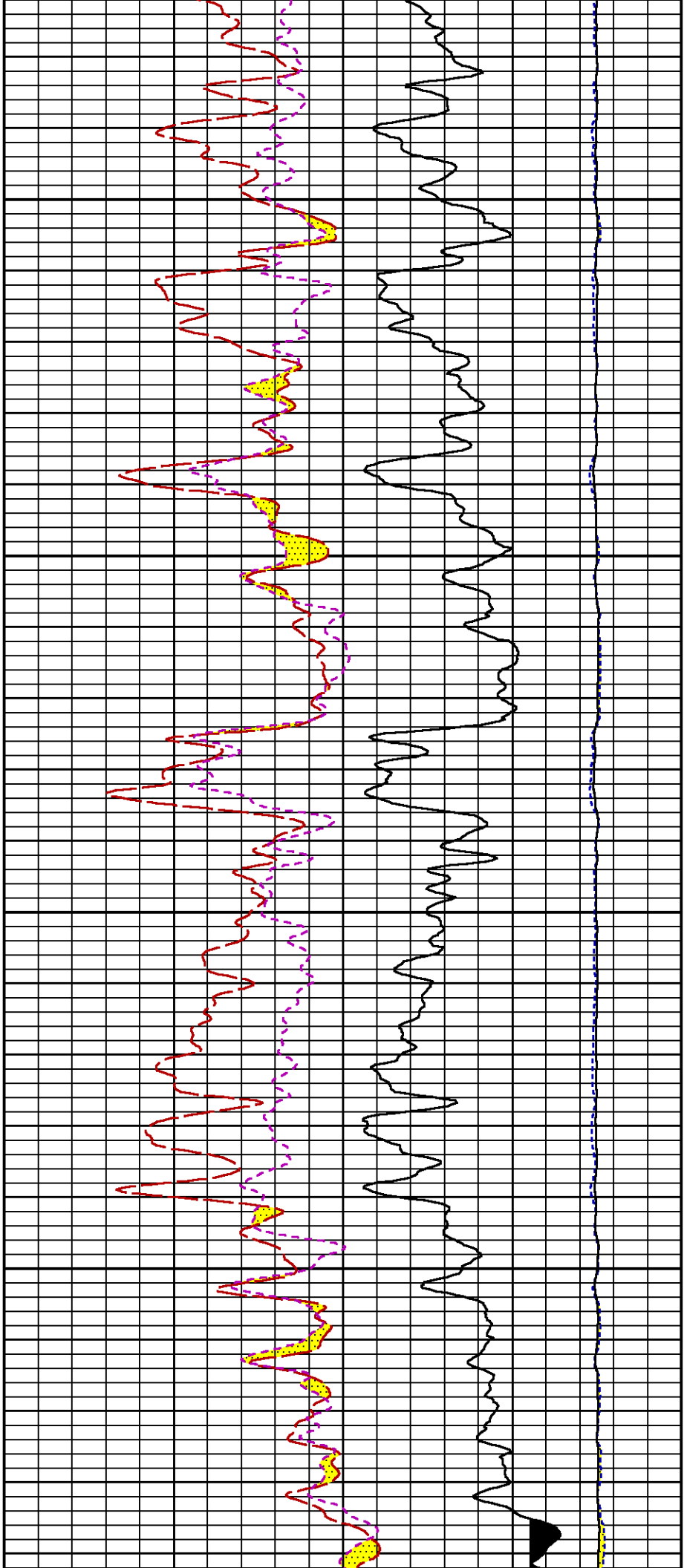


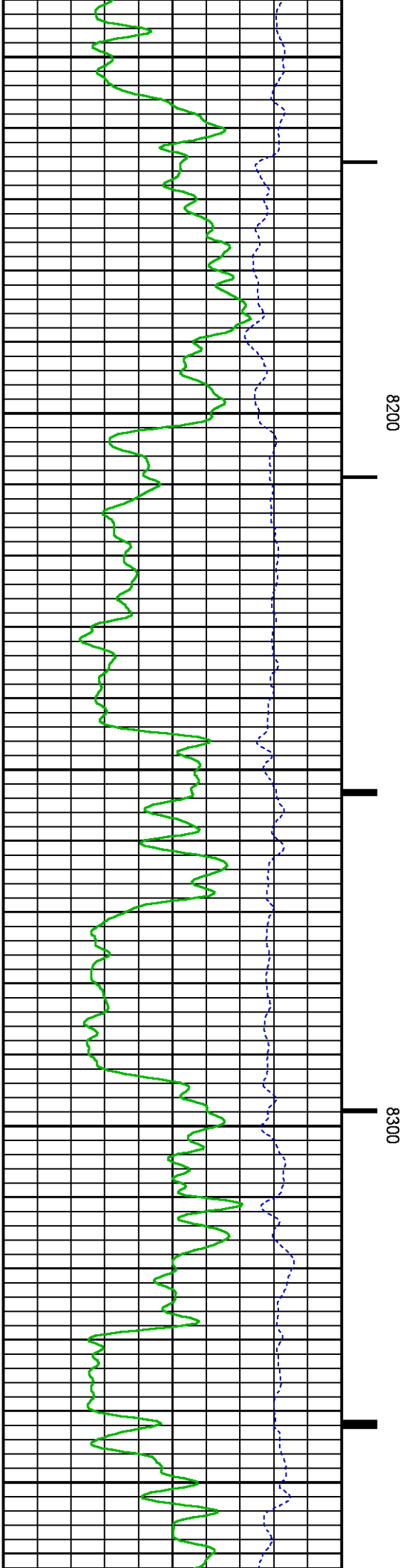
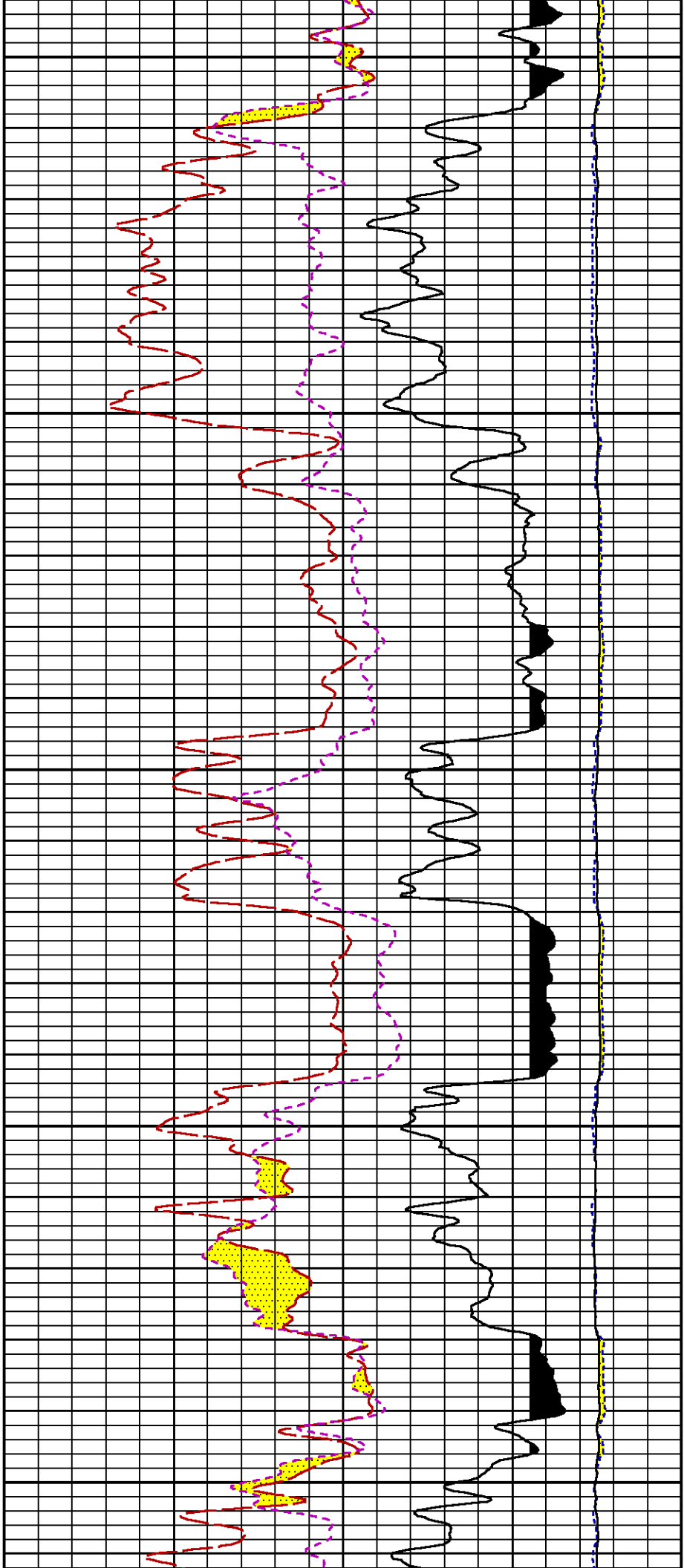


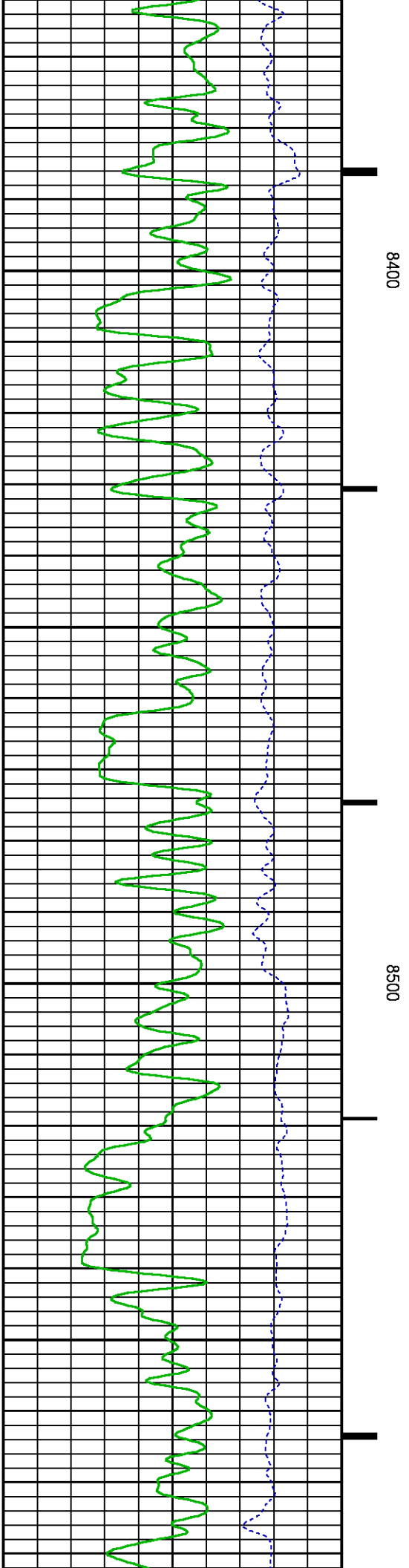
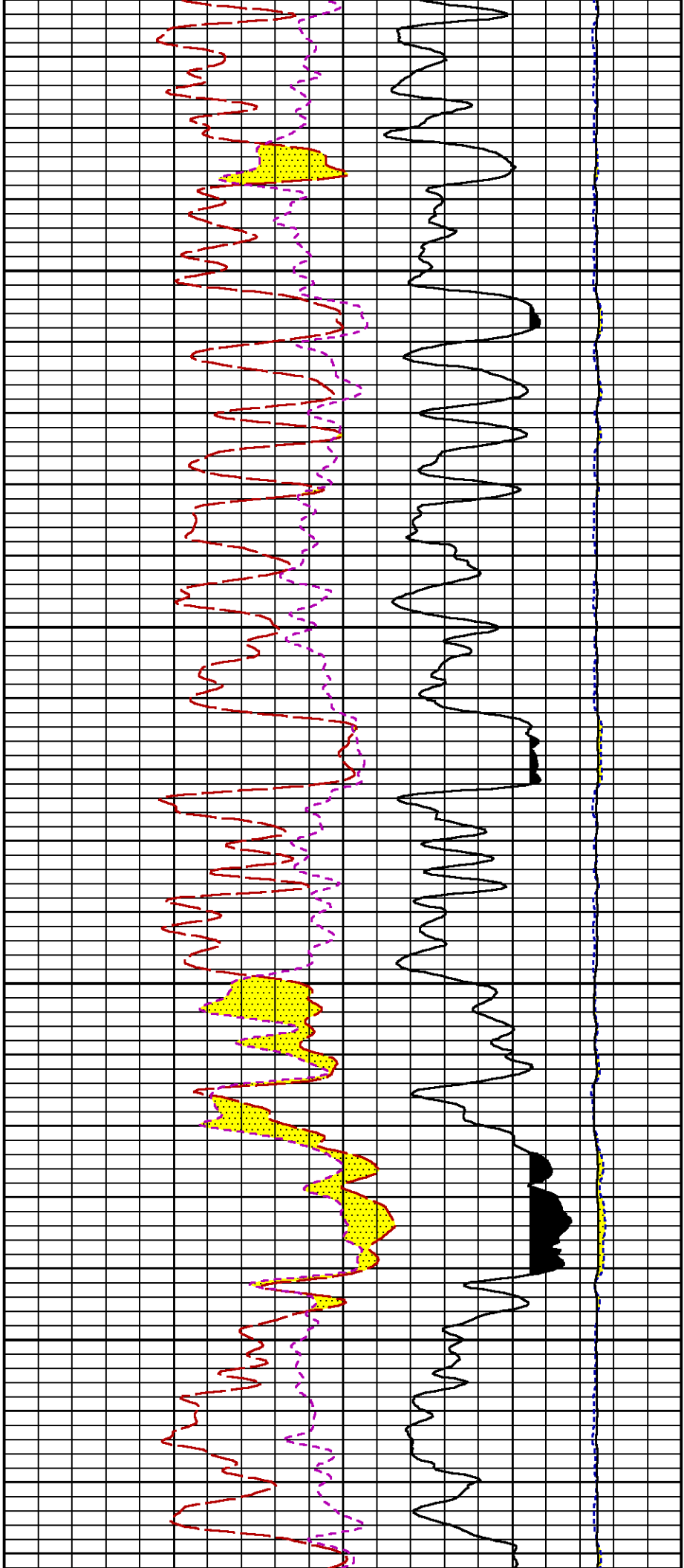


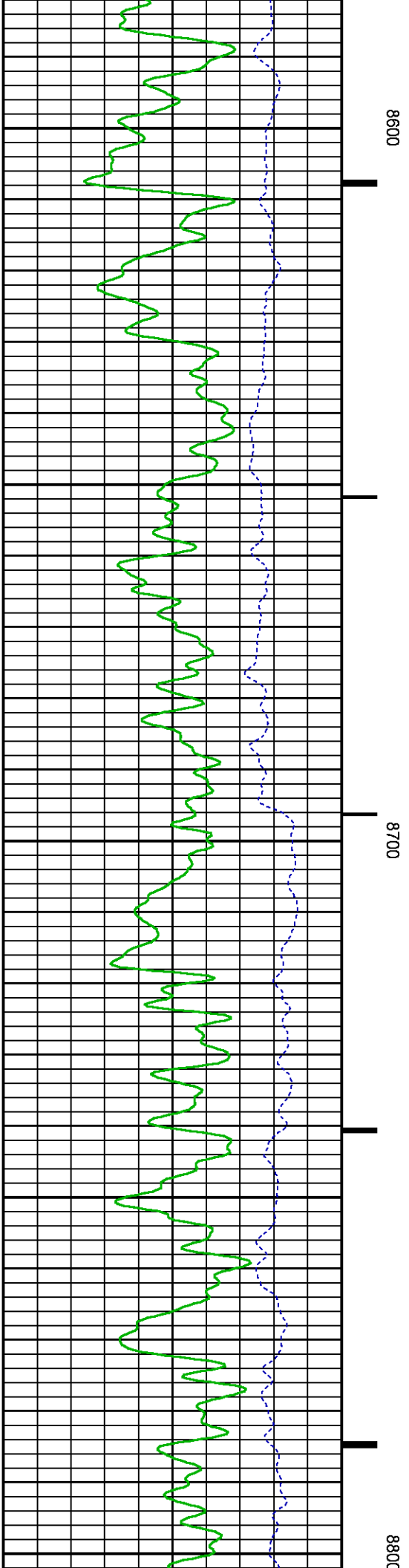
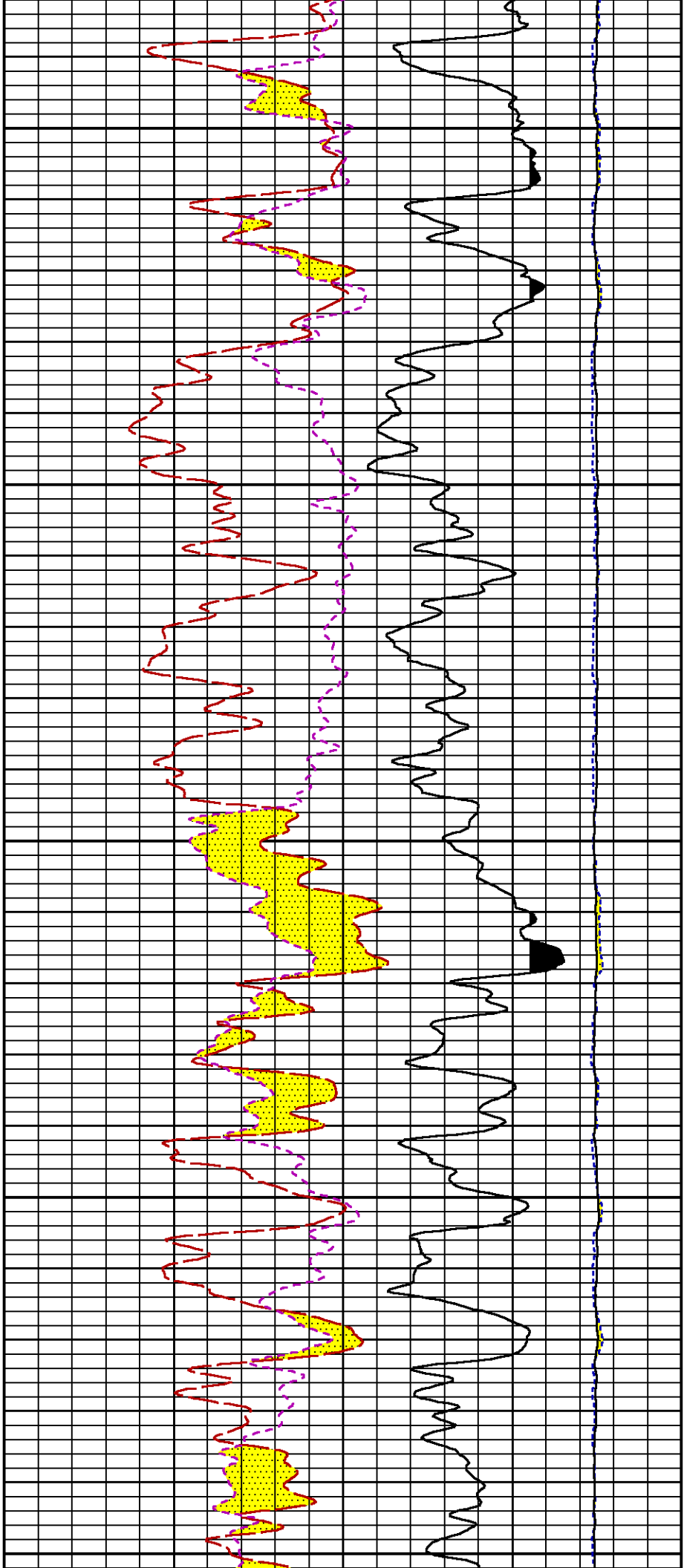






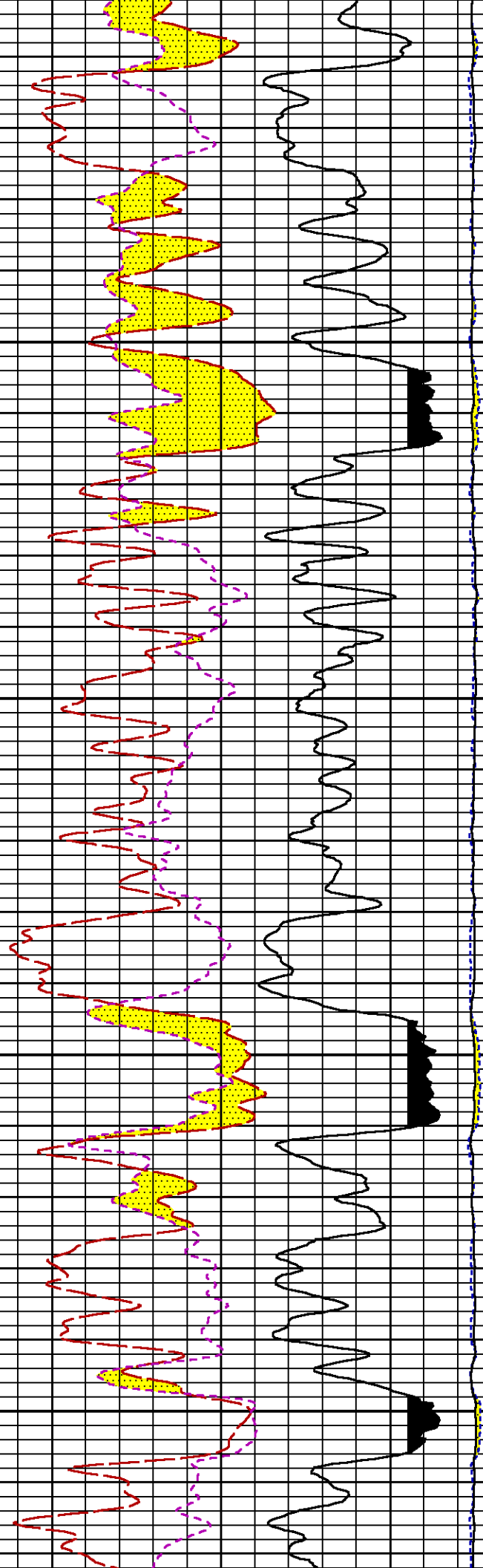
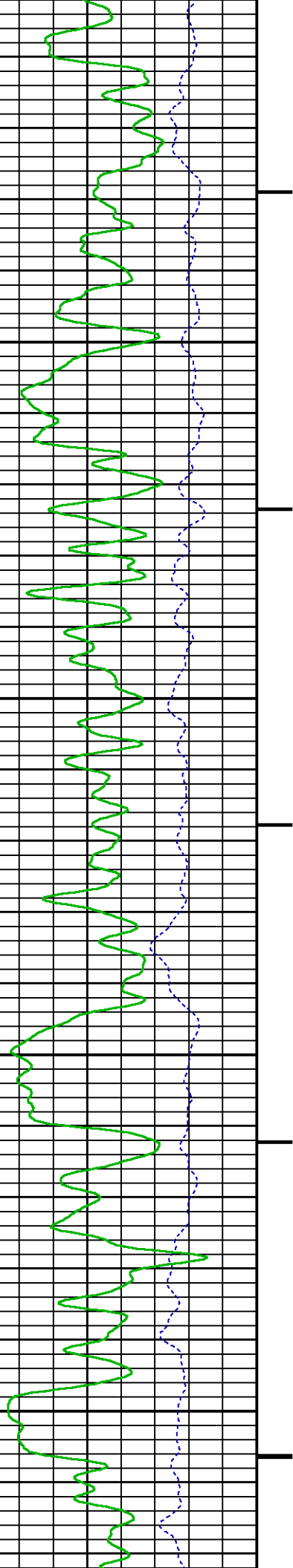


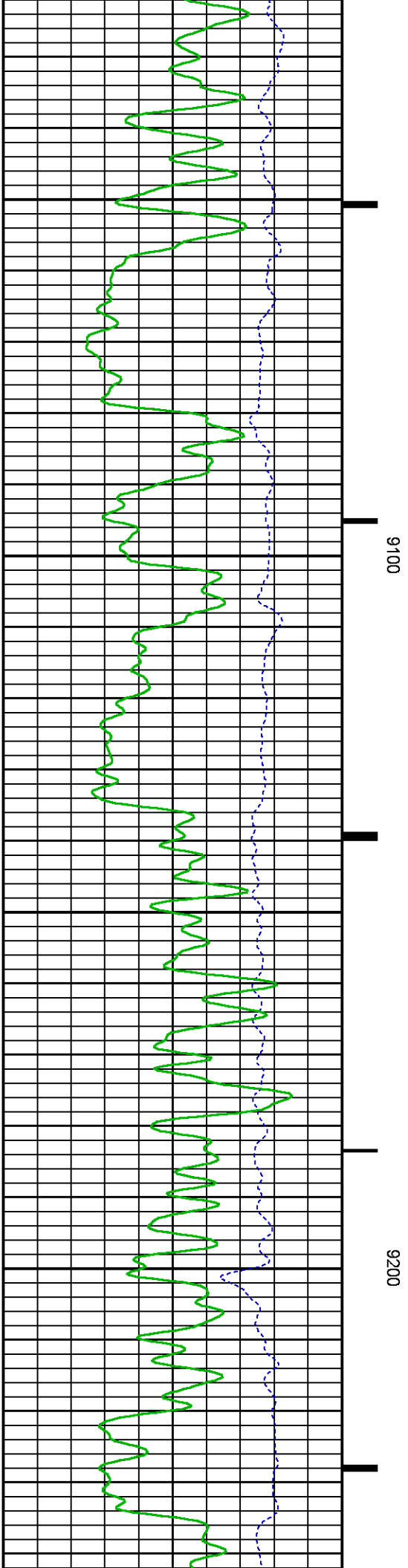
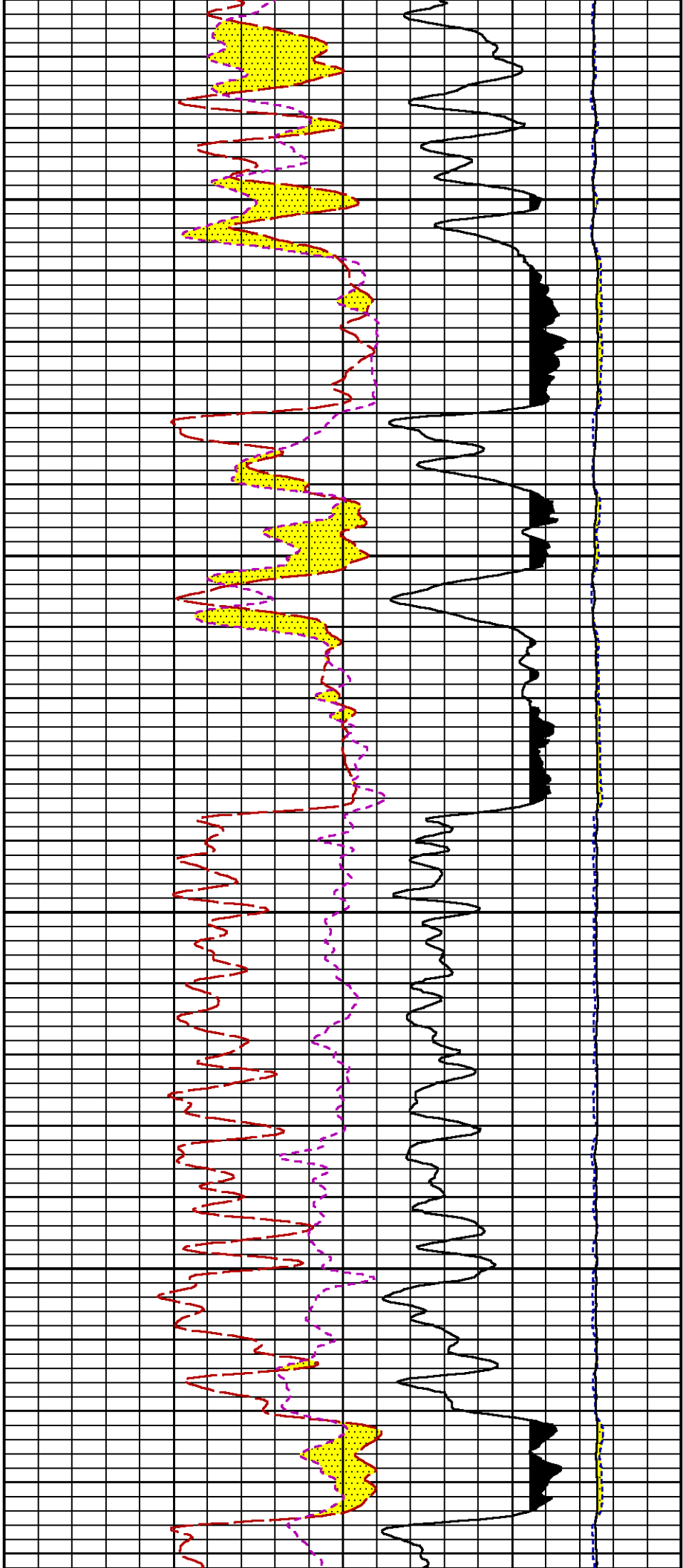


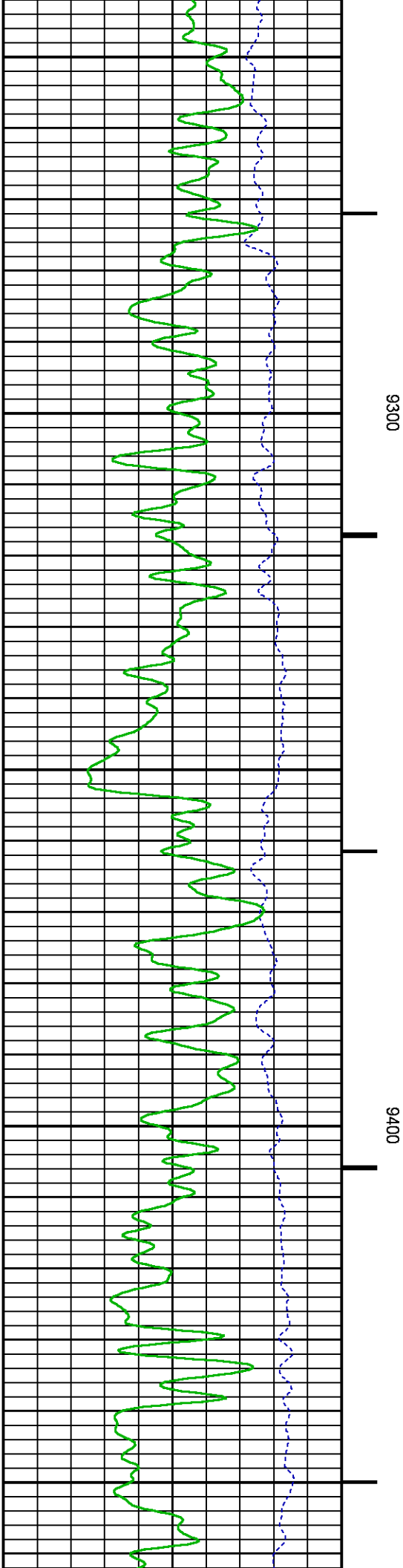
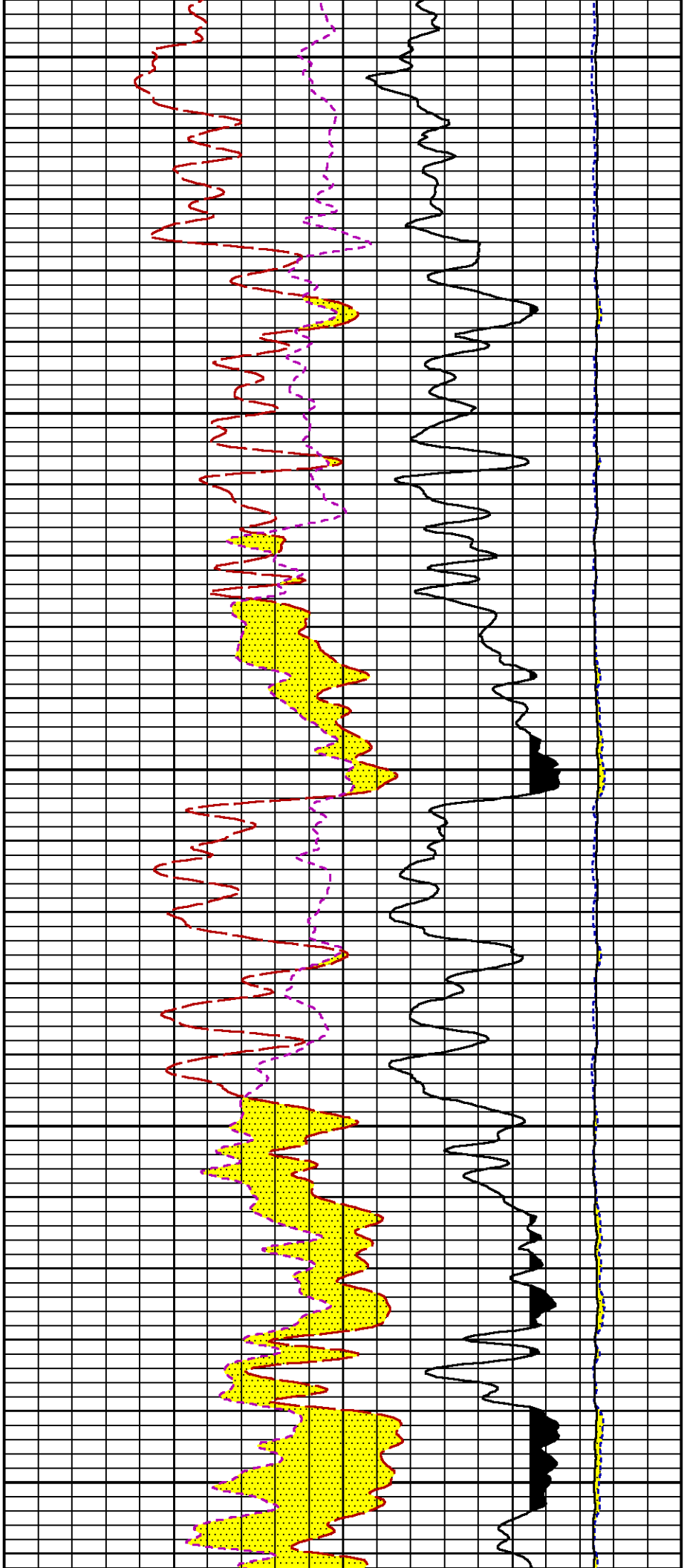


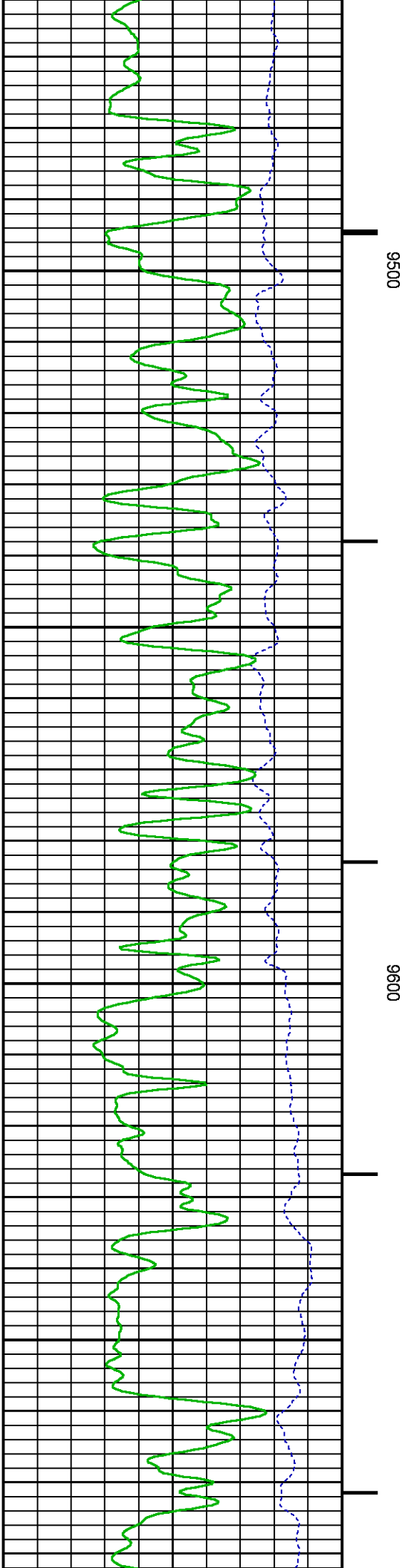
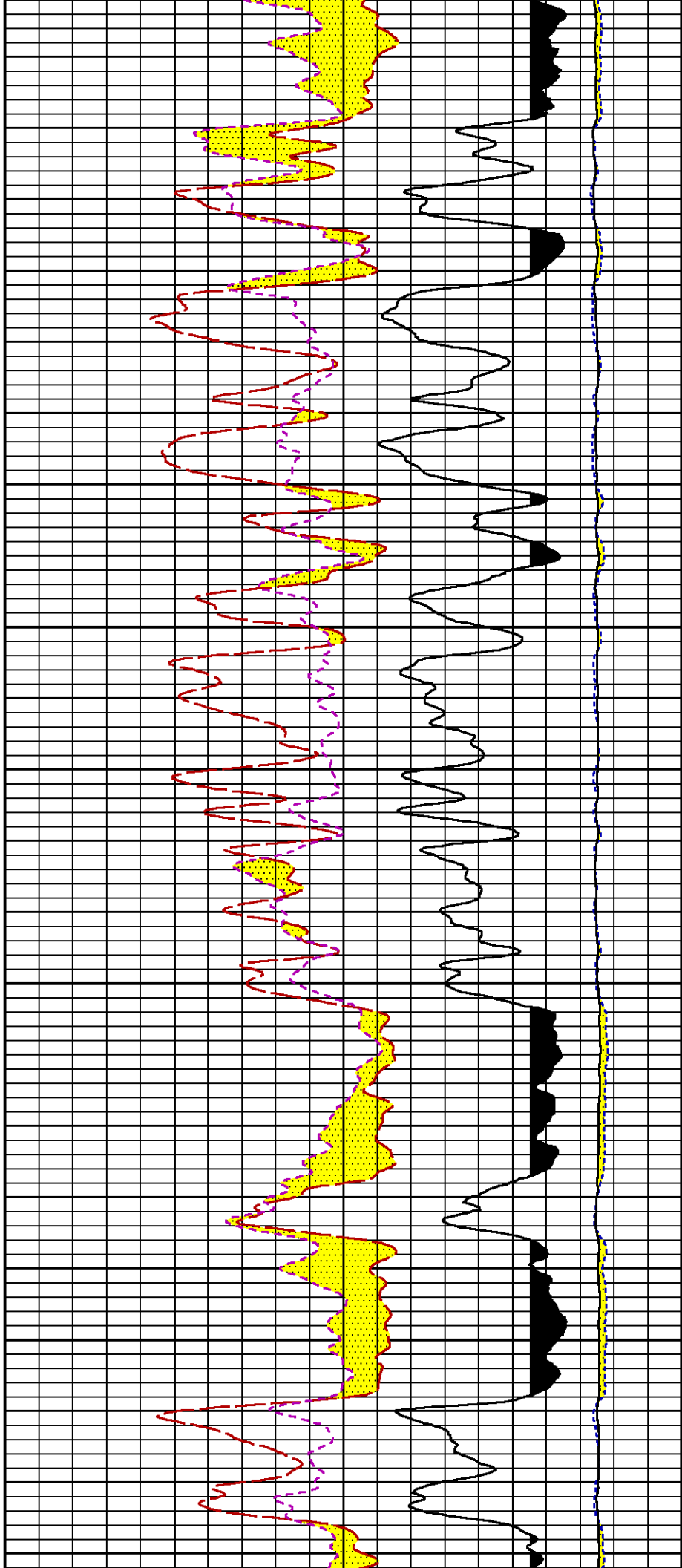
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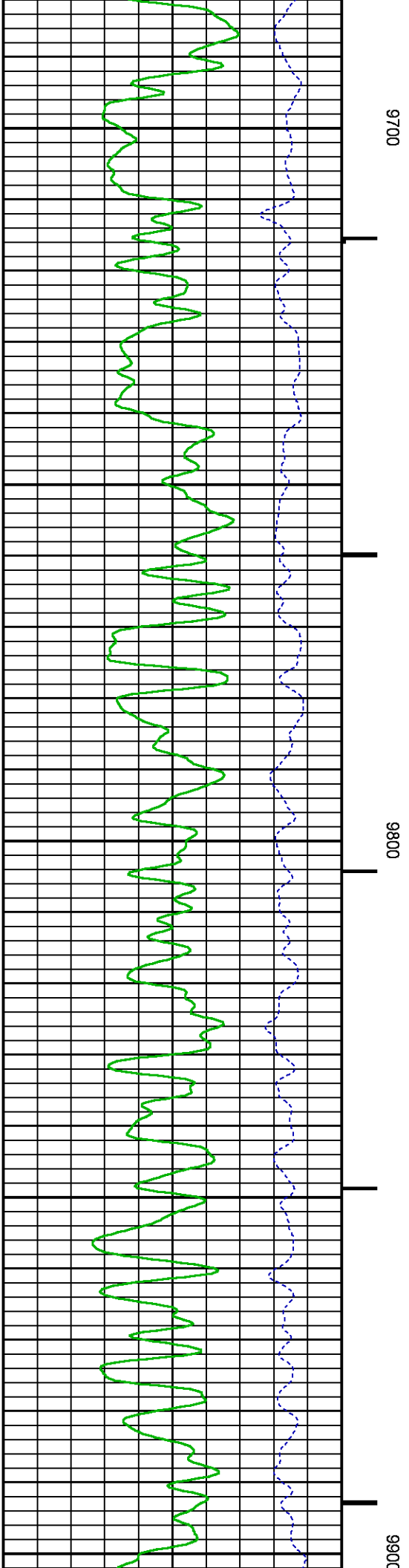
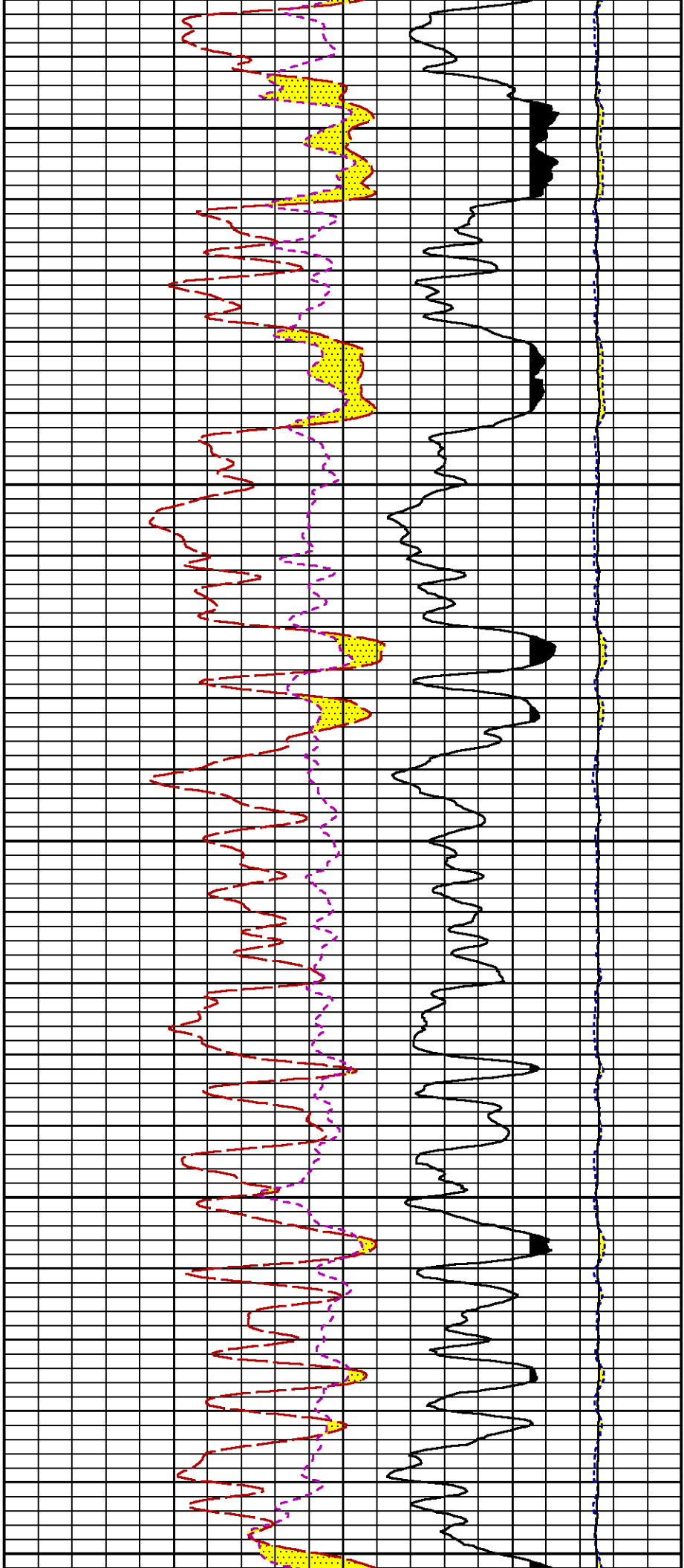
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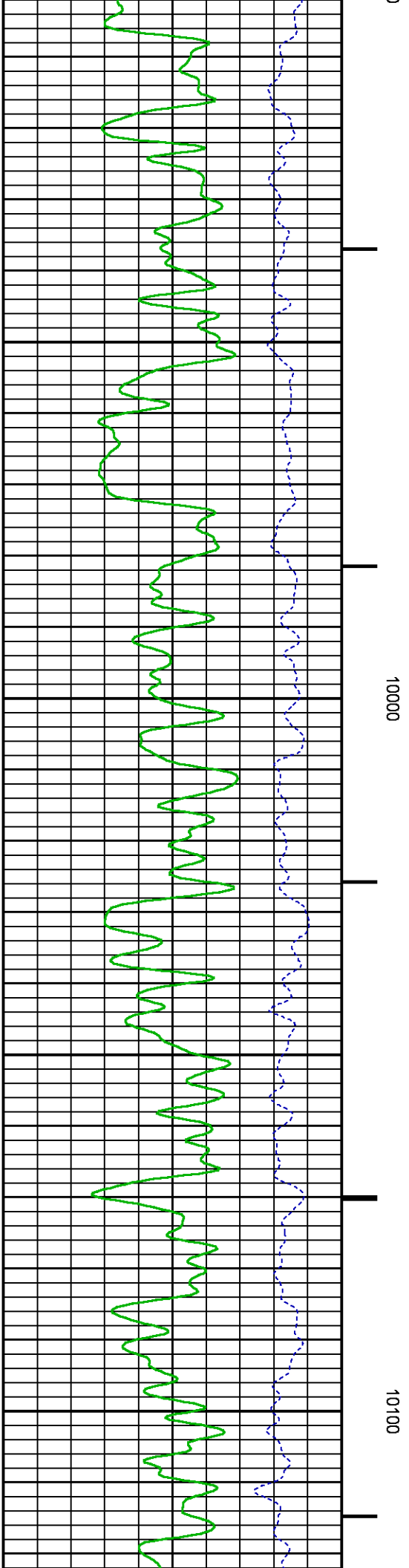
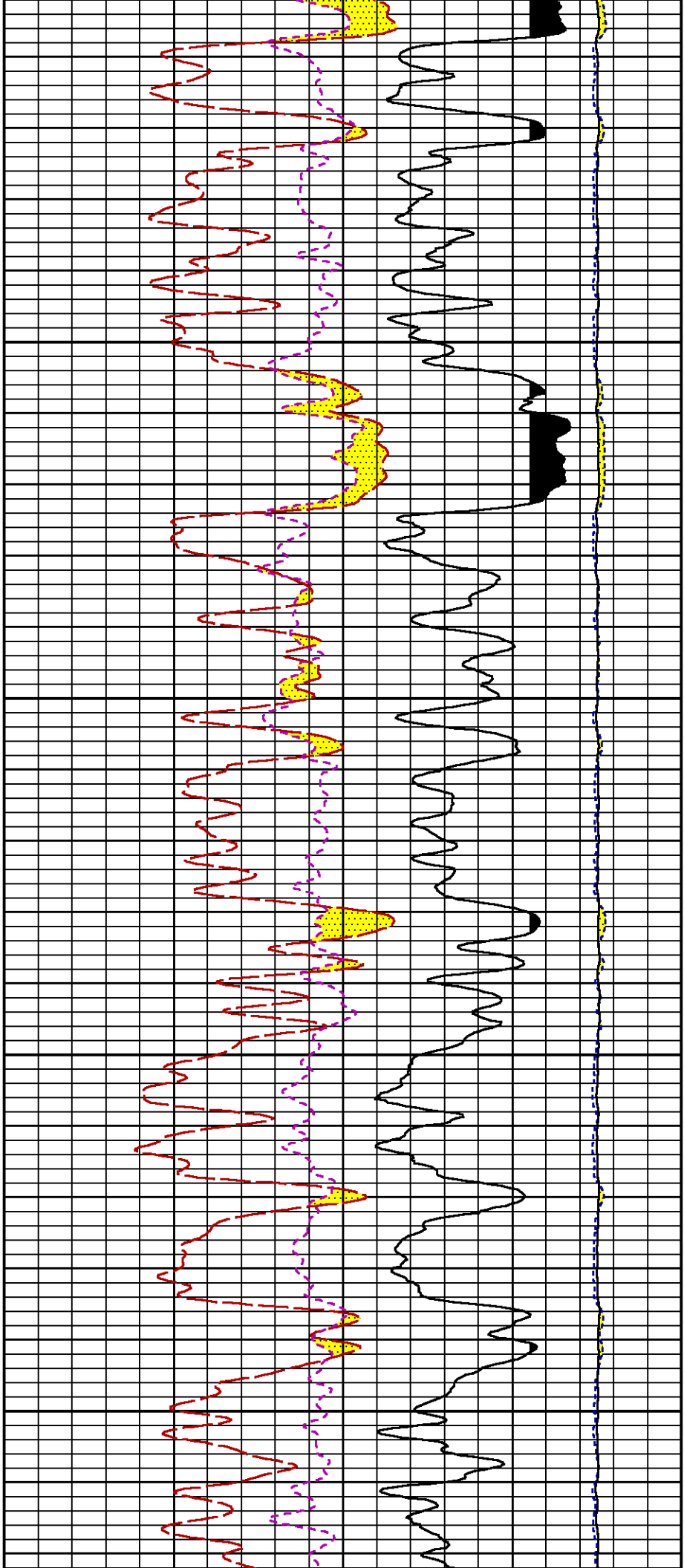


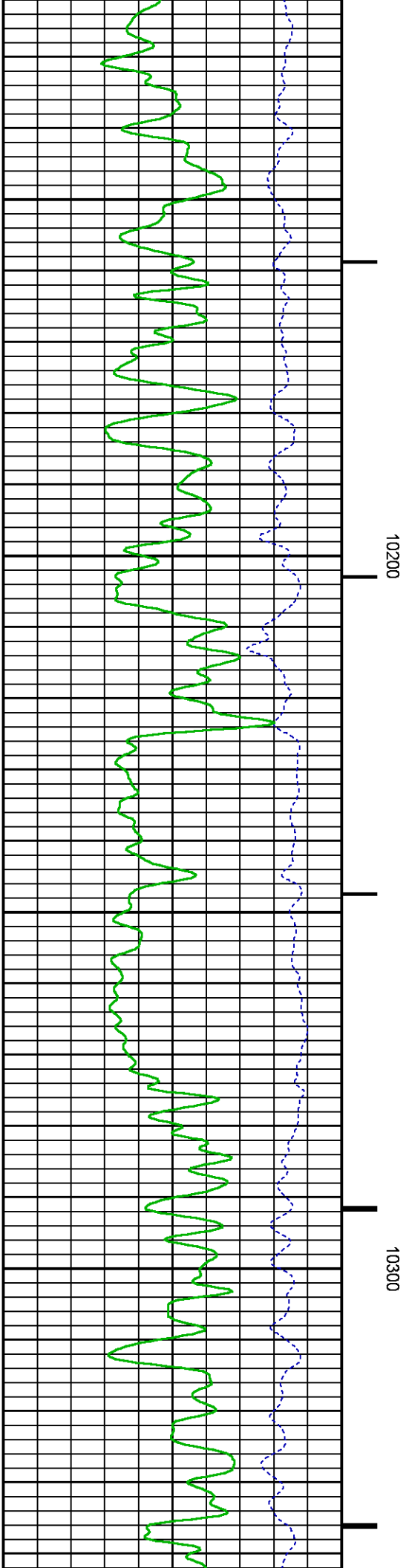
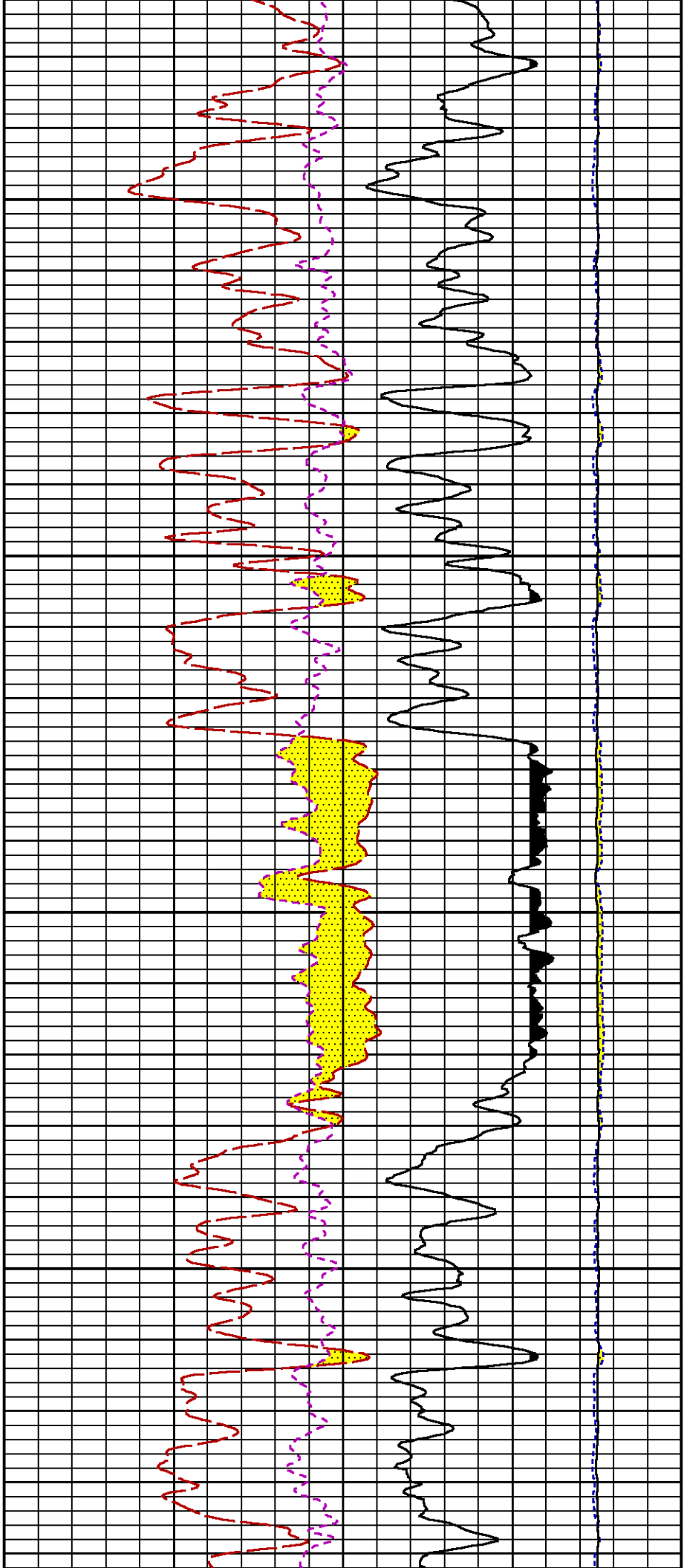


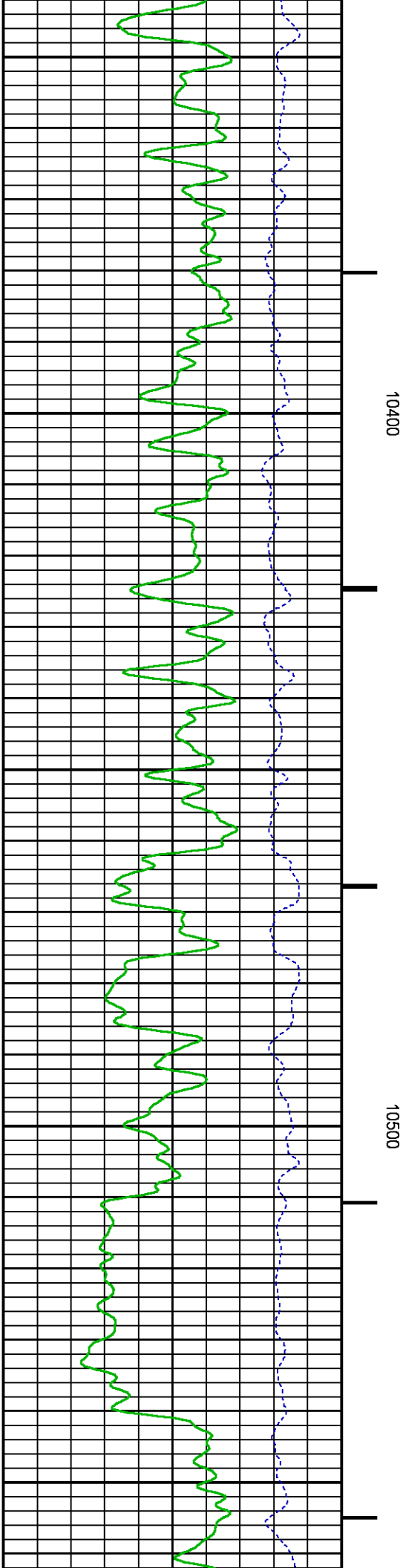
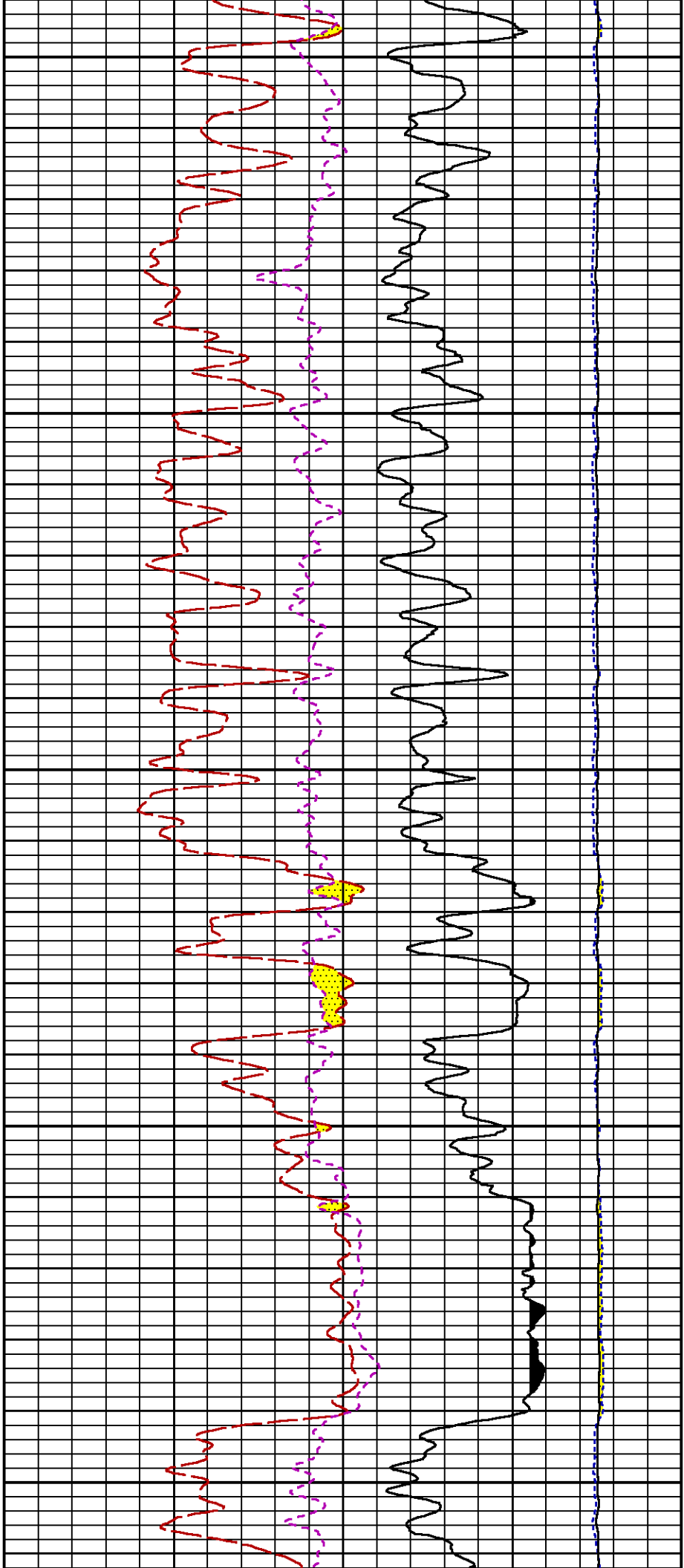


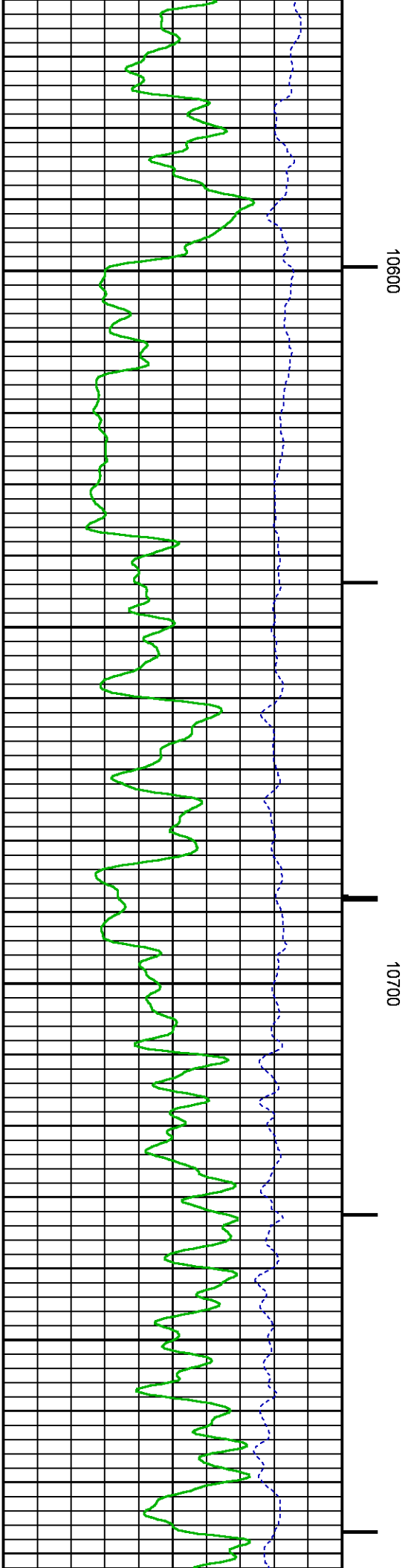
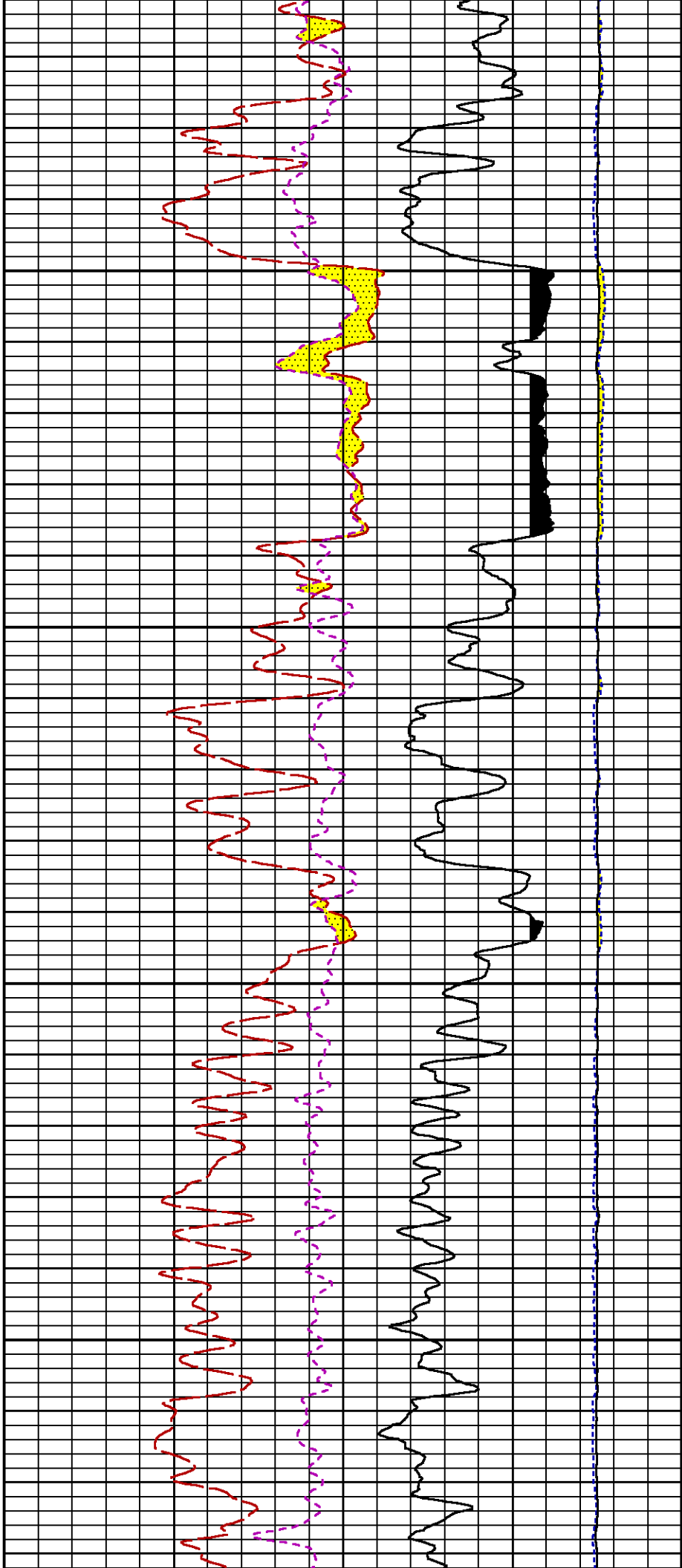


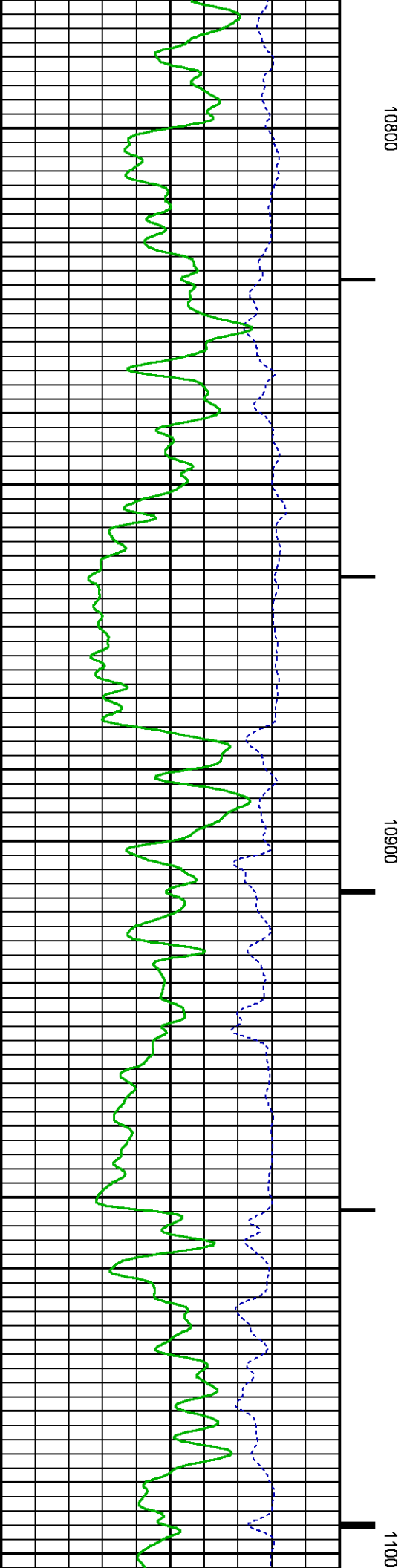
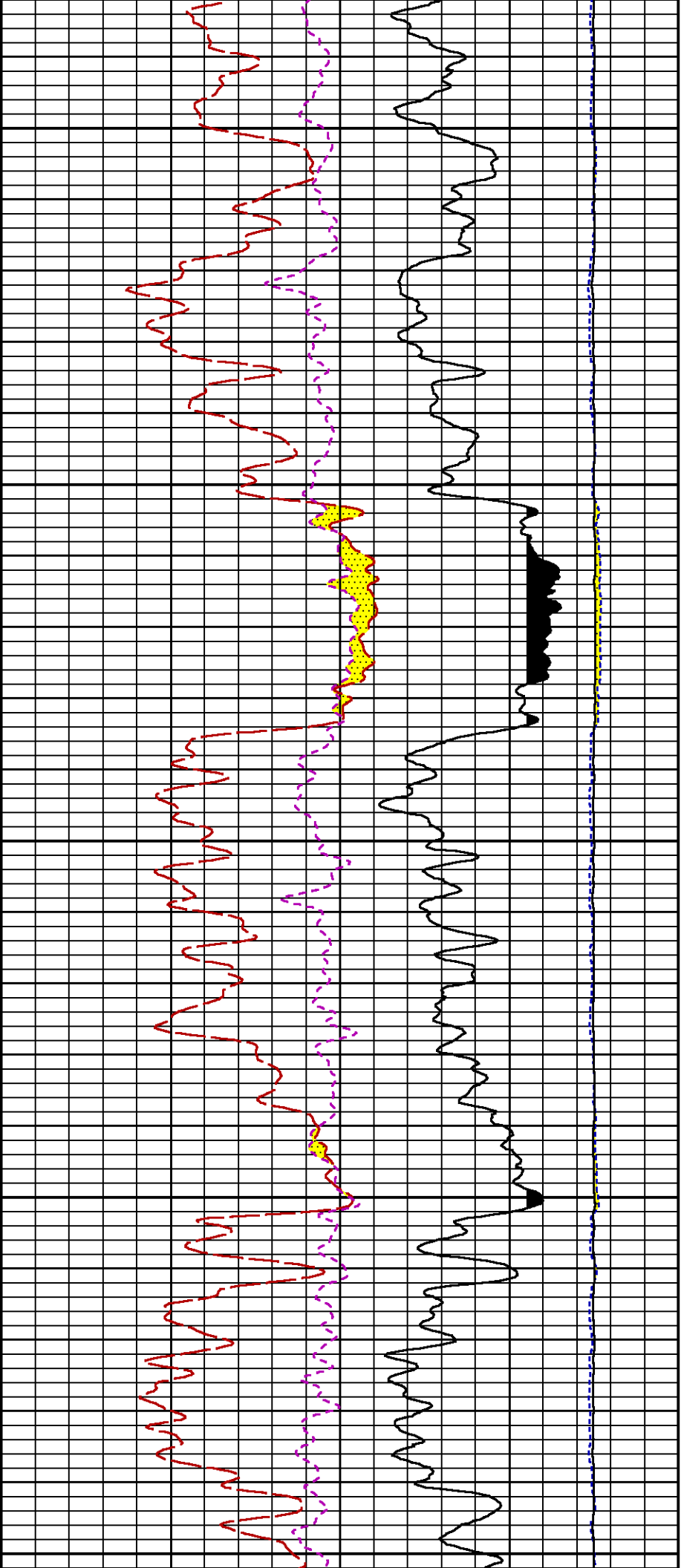


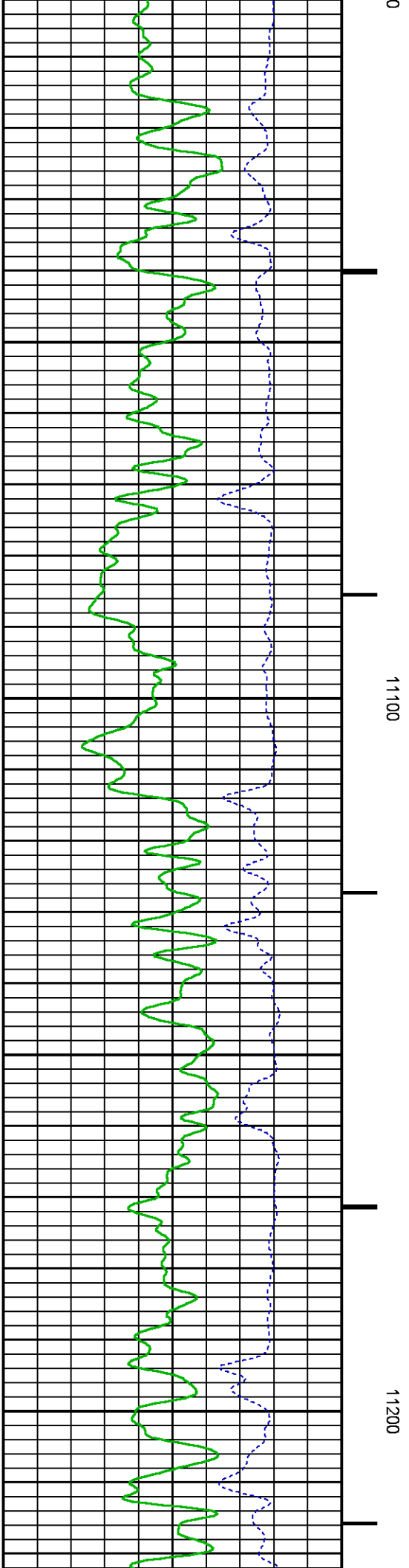
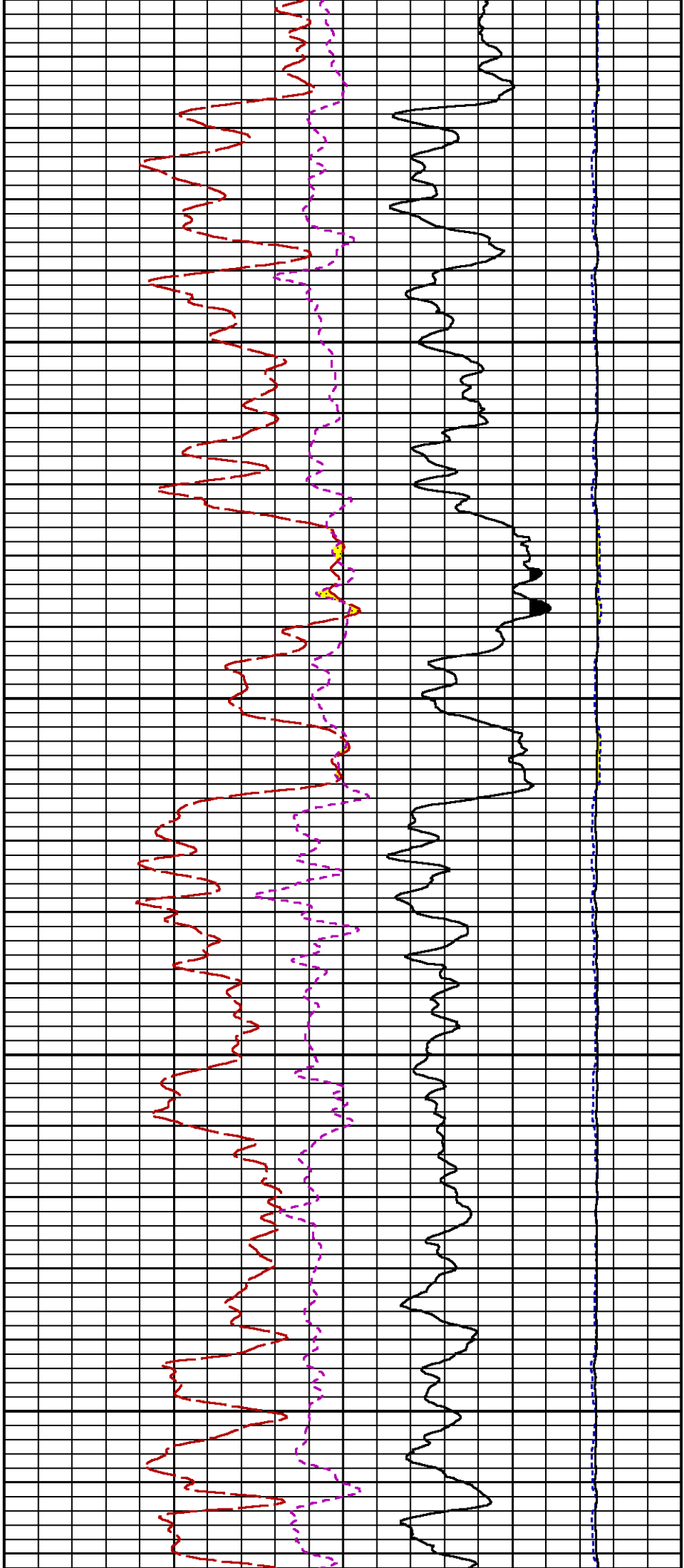


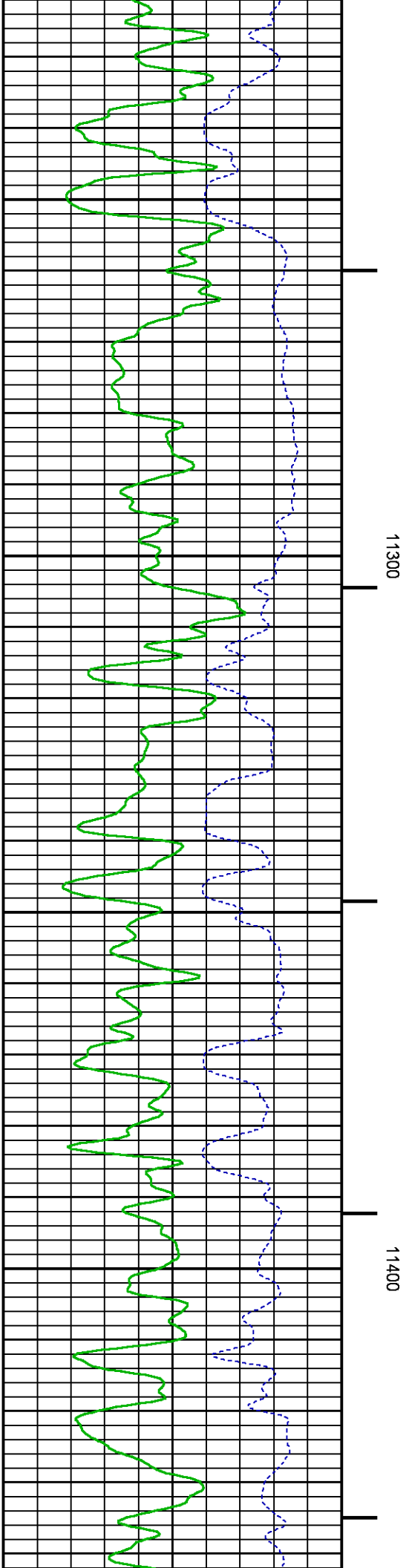
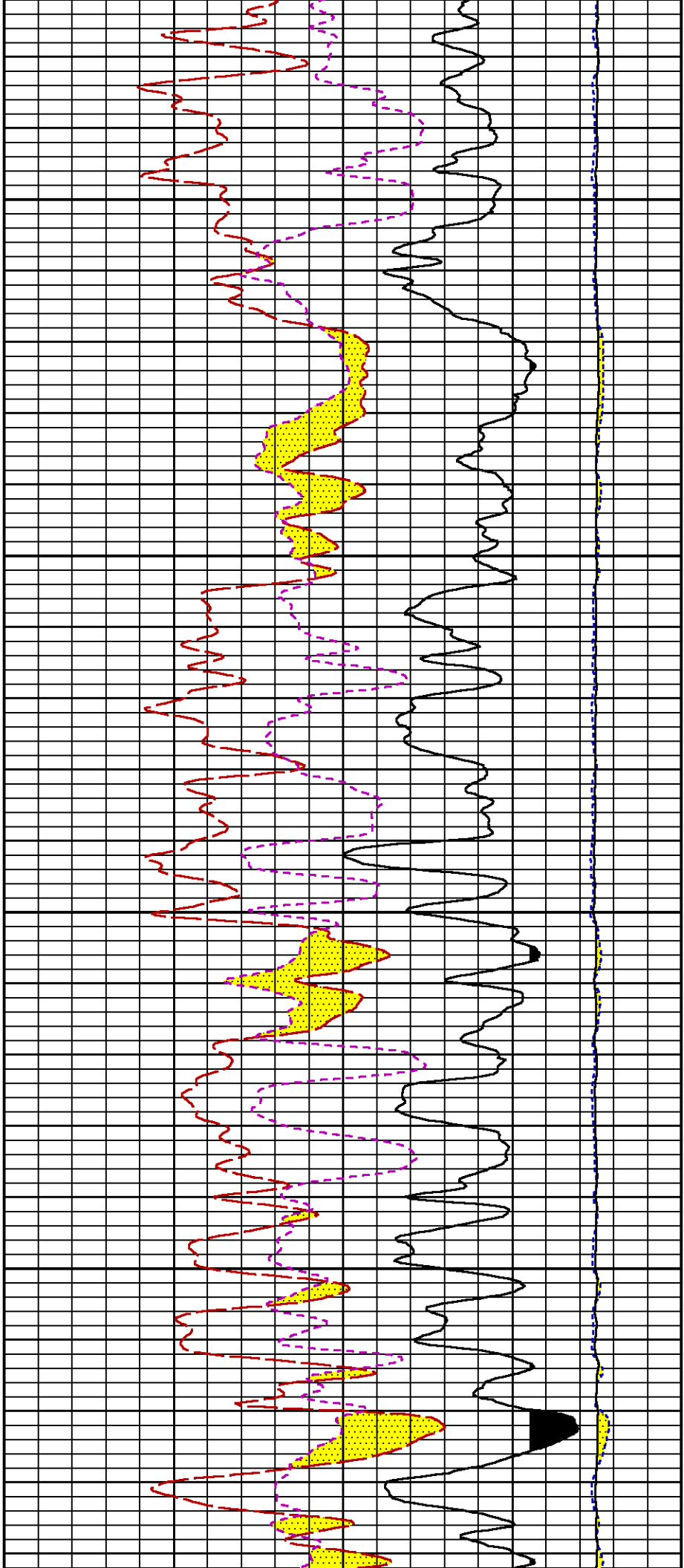


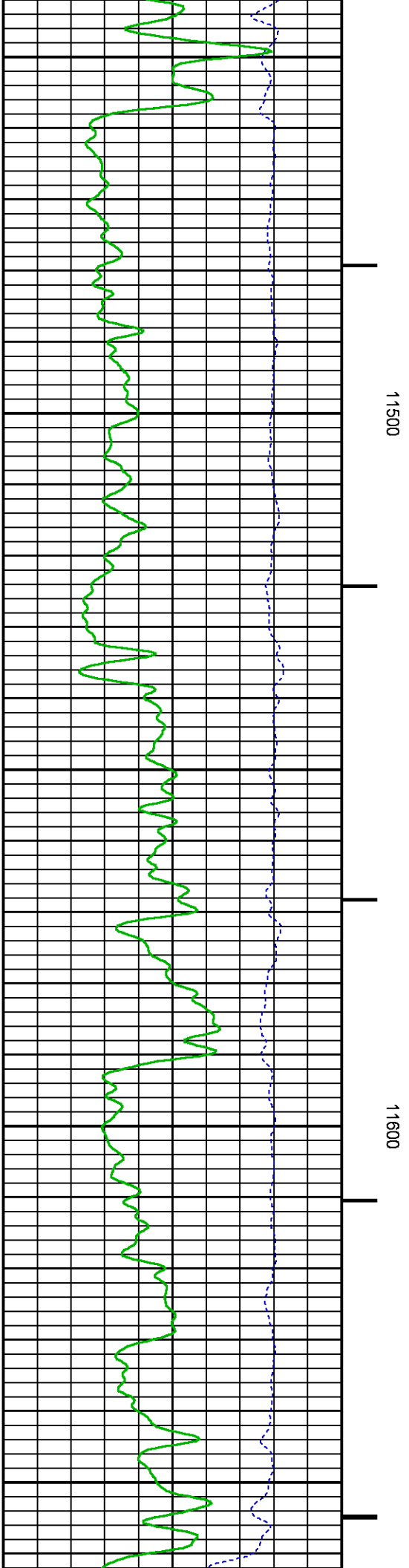
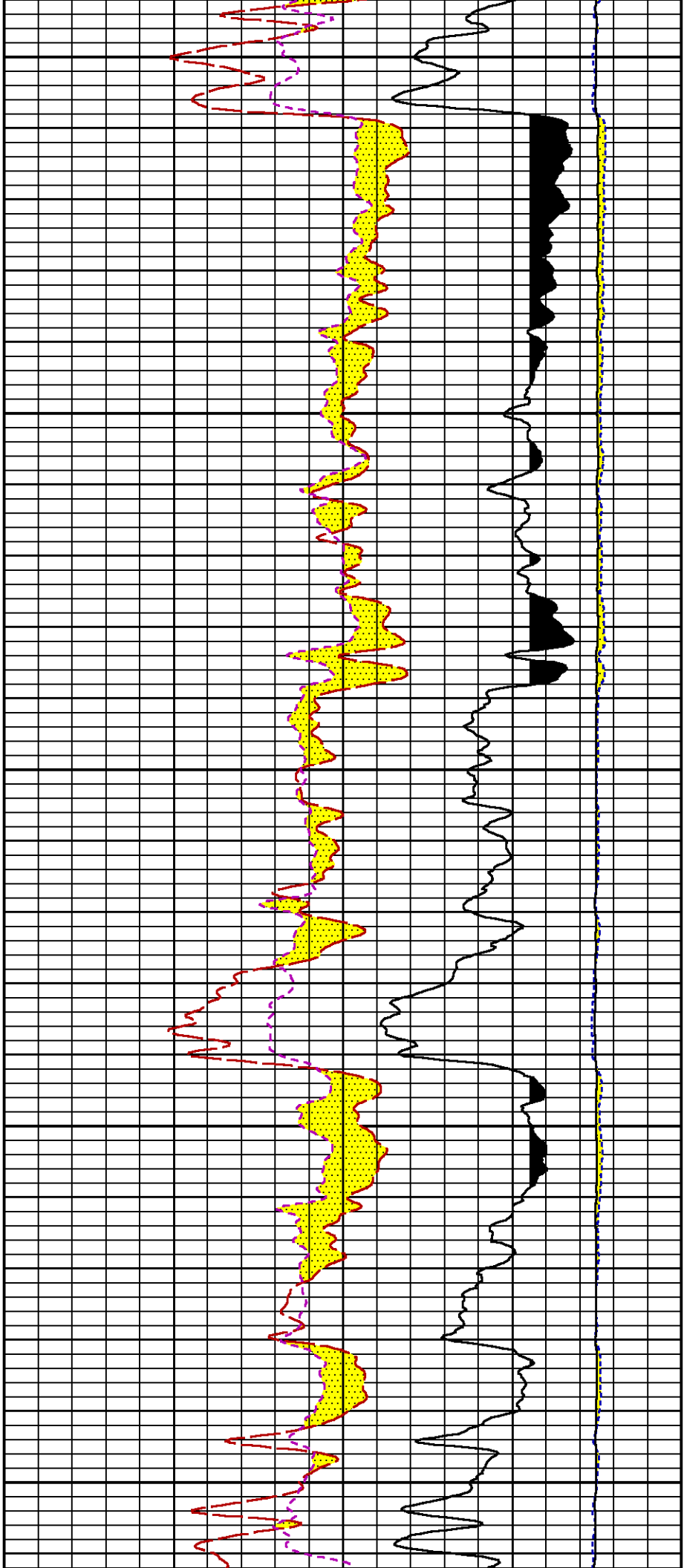


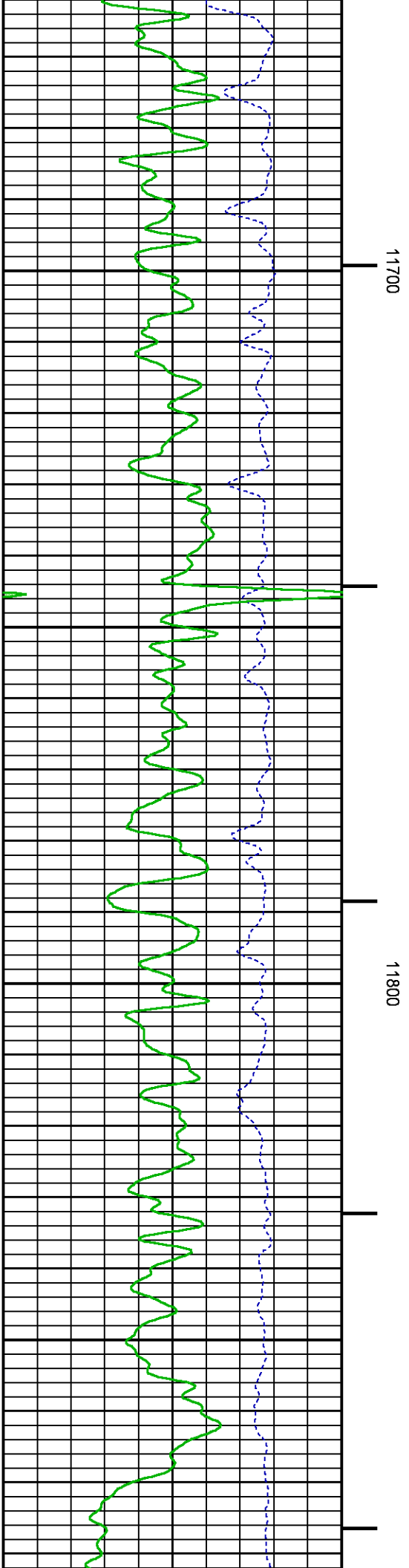
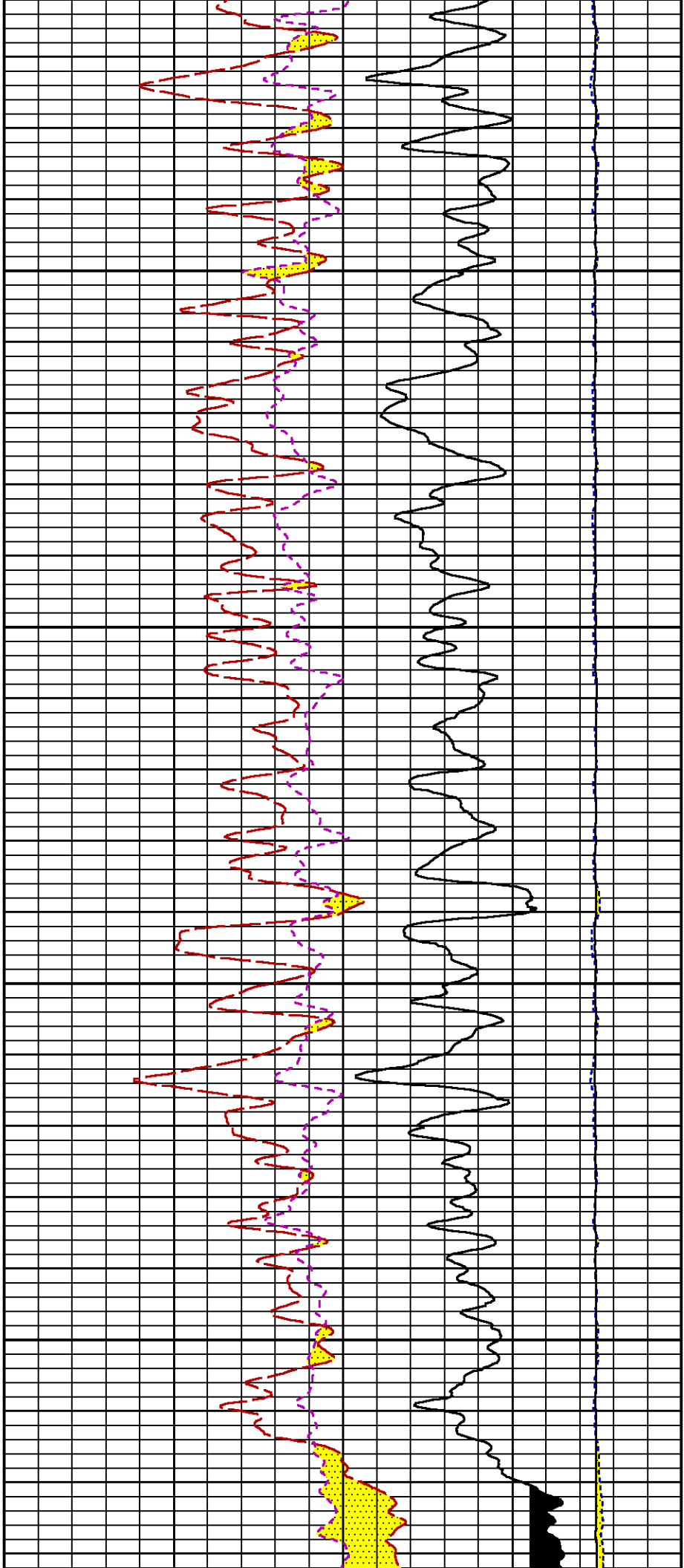


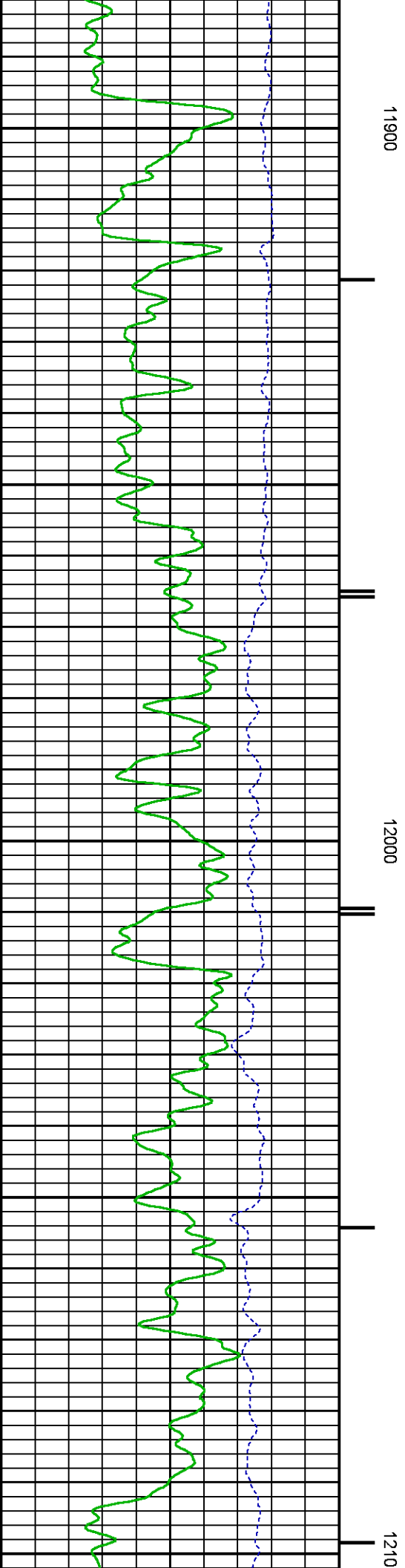
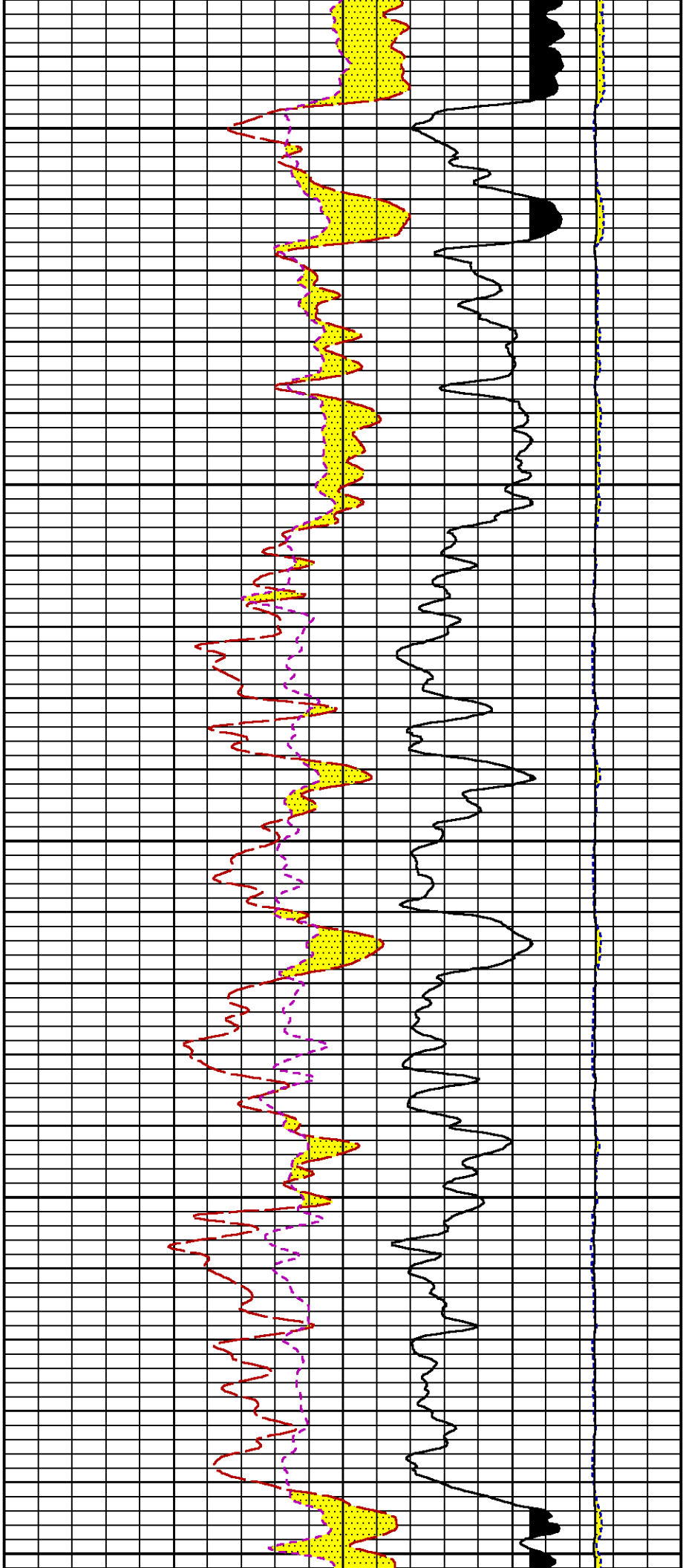


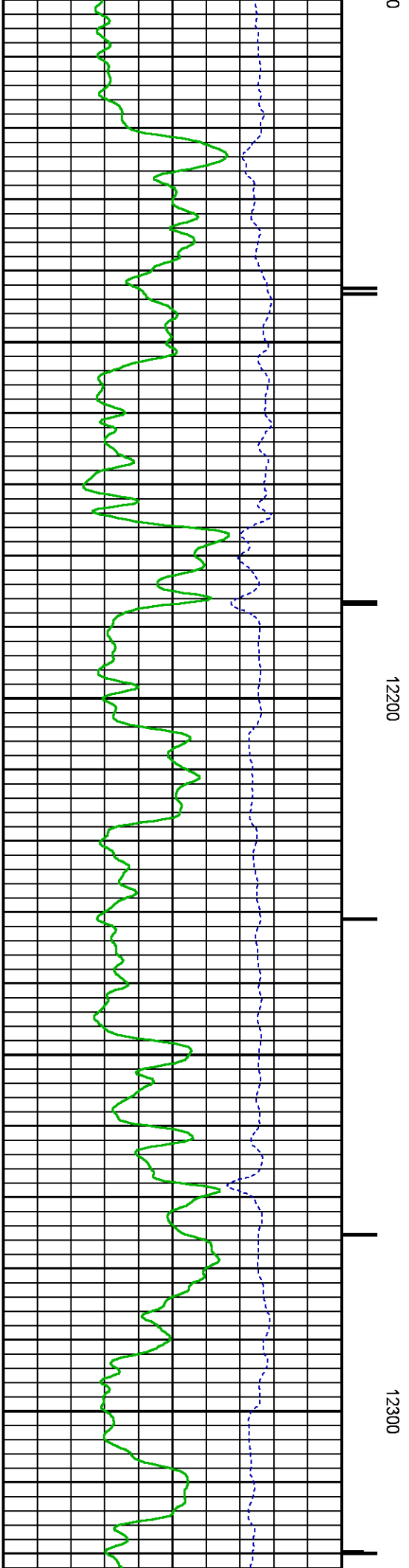
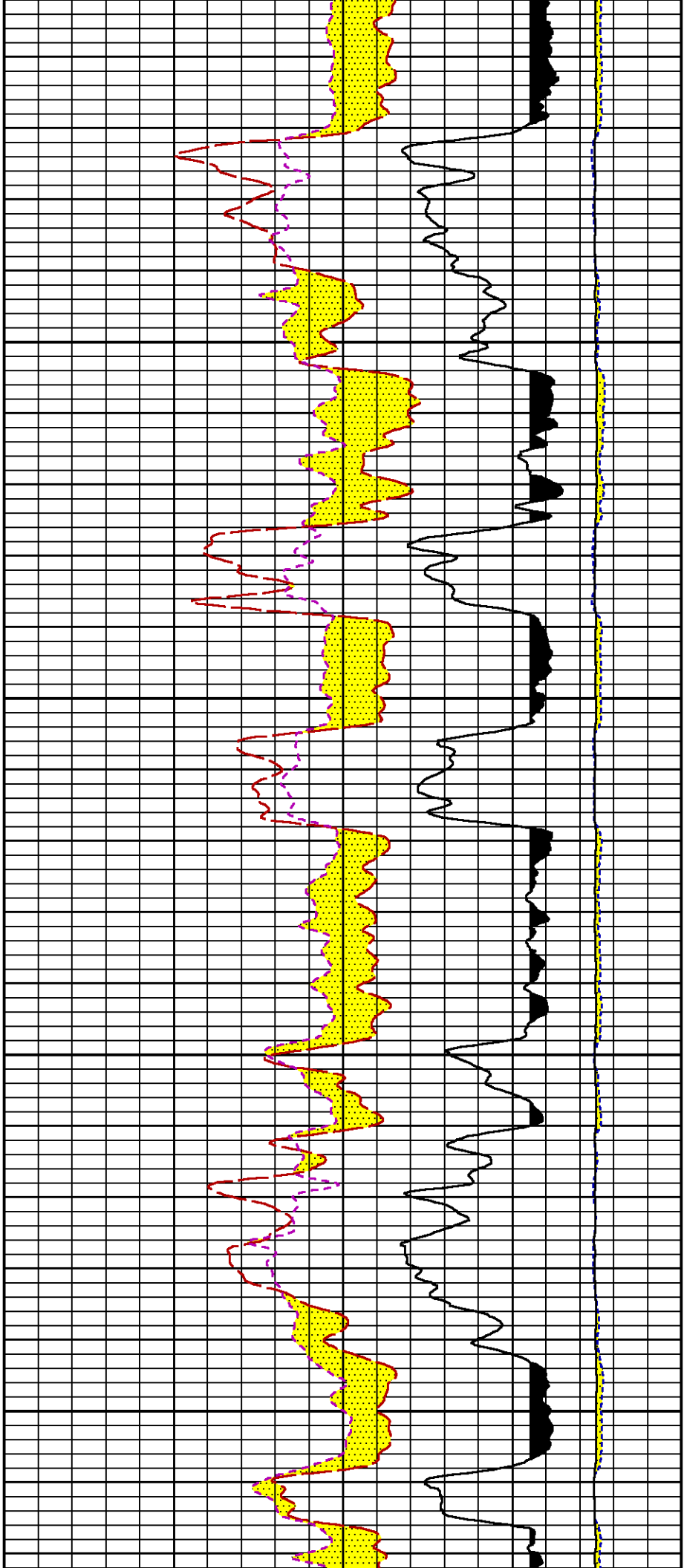


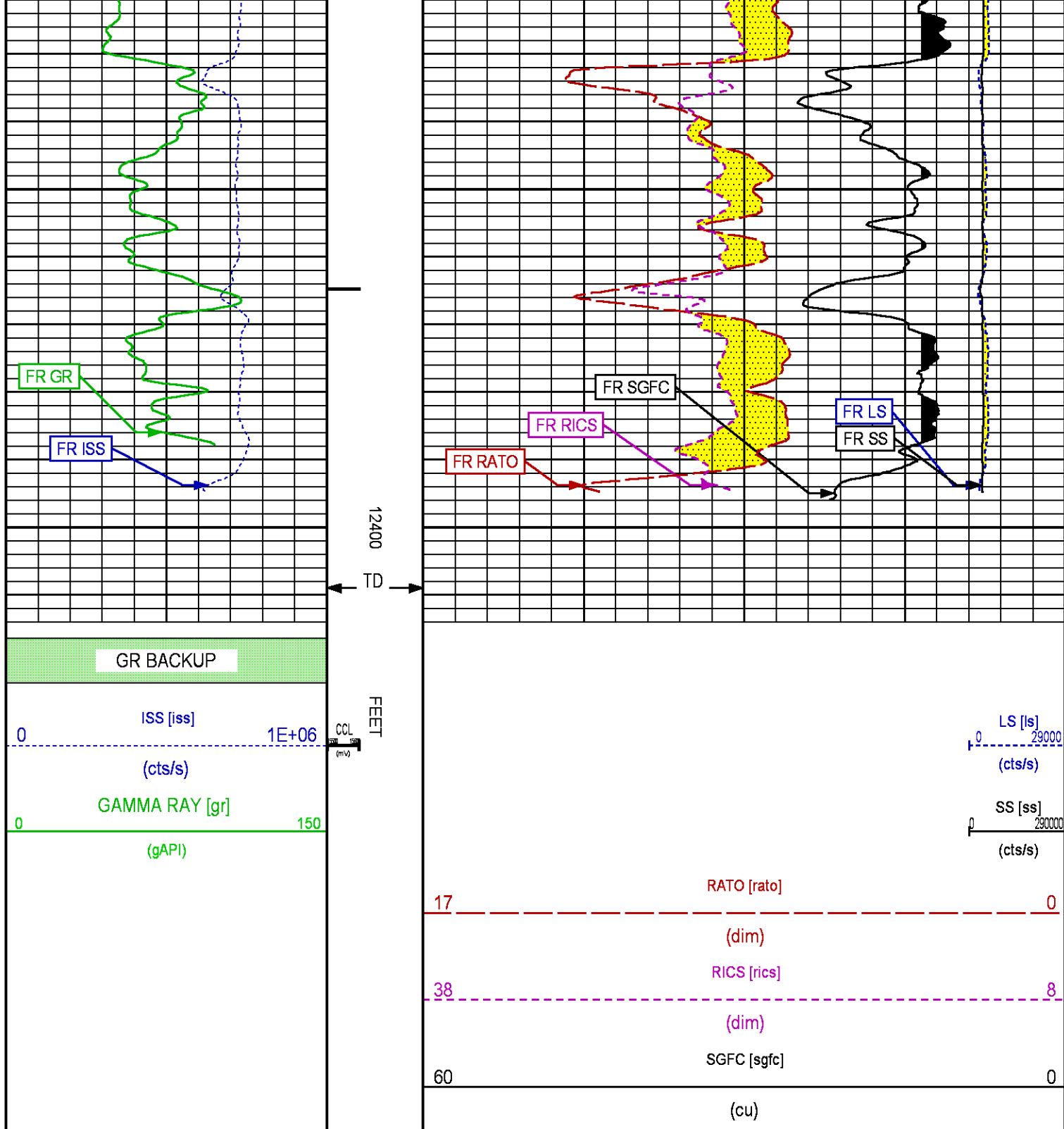












REPEAT SECTION PNC-3D MODE

PARAMETER AND FILTER SUMMARY REPORT

FILE: /dat1a/CH096699/n353a01.prm
 LOGGING MODE: DEPTH DIRECTION: UP
 TOP DEPTH: 11547.000 ft BOTTOM DEPTH: 11777.250 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 | " " |
| | CASING SIZE | 4.50 | in | " " |
| | MATRIX | SANDSTONE | | " " |
| | CORRECTION BUFFER | 11 | | " " |

CURVE DESCRIPTION REPORT

| CURVE NAME | CREATION DATE | CURVE DESCRIPTION |
|------------|----------------------|---|
| F1:CCL | May 22 14:01:54 2015 | CASING COLLAR LOCATOR |
| F1:GR | May 22 14:01:54 2015 | GAMMA RAY |
| F1:ISS | May 22 14:01:54 2015 | INELASTIC SHORT SPACE COUNT RATE |
| F1:LS | May 22 14:01:54 2015 | LONG SPACE COUNT RATE |
| F1:RATO | May 22 14:01:54 2015 | SHORT/LONG SPACE COUNT RATE RATIO |
| F1:RICS | May 22 14:01:54 2015 | SHORT SPACE INELASTIC TO CAPTURE COUNT RATE RATIO (ISS/CSS) |
| F1:SGFC | May 22 14:01:54 2015 | CORRECTED FORMATION SIGMA |
| F1:SS | May 22 14:01:54 2015 | 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 : cas6685:/dat1a/CH096699/RPM_REPEAT.fvpdf [5"/100' Scale]
 Plot Interval : 11502.5 - 11742.5 Feet

Data File 1 : F1 : cas6685:/dat1a/CH096699/n353a01_REPEAT.xtf
 Created On : May 22 14:01:54 2015
 Company : WPX ENERGY
 Well : FEDERAL RGU 43-26-198
 Field : SULPHUR CREEK
 File Interval : 11501.8 - 11757.5 Feet
 OCT : n353a

GR BACKUP

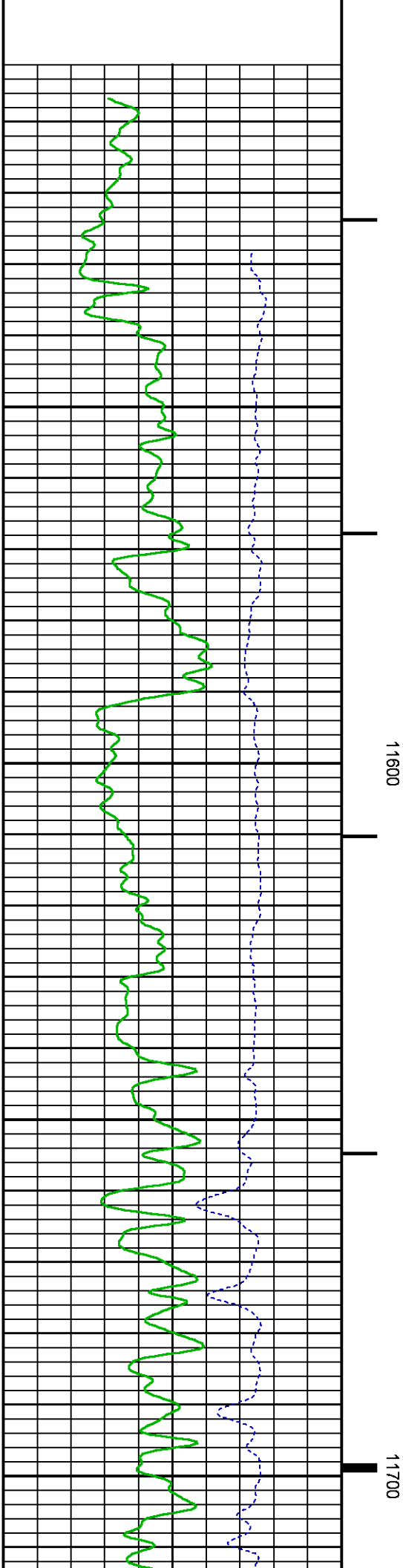
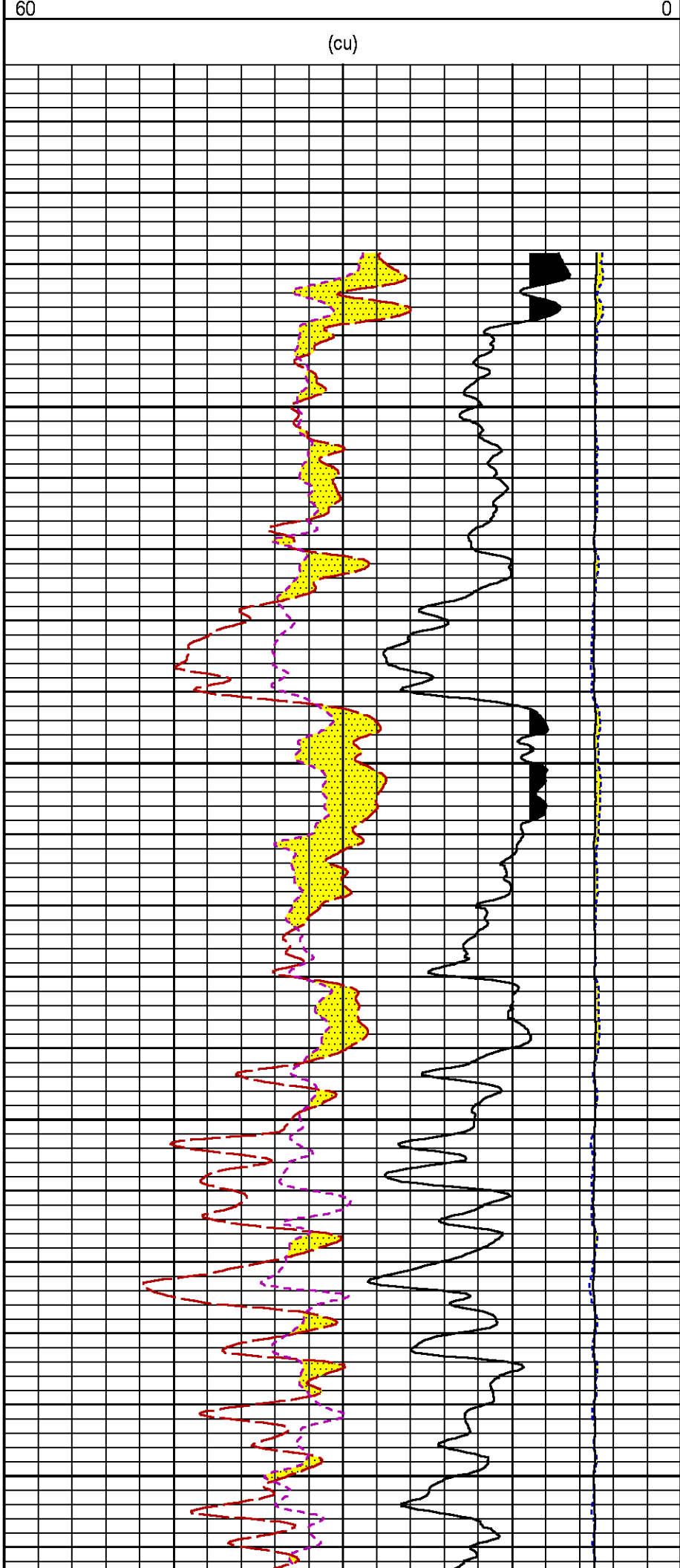
FEET

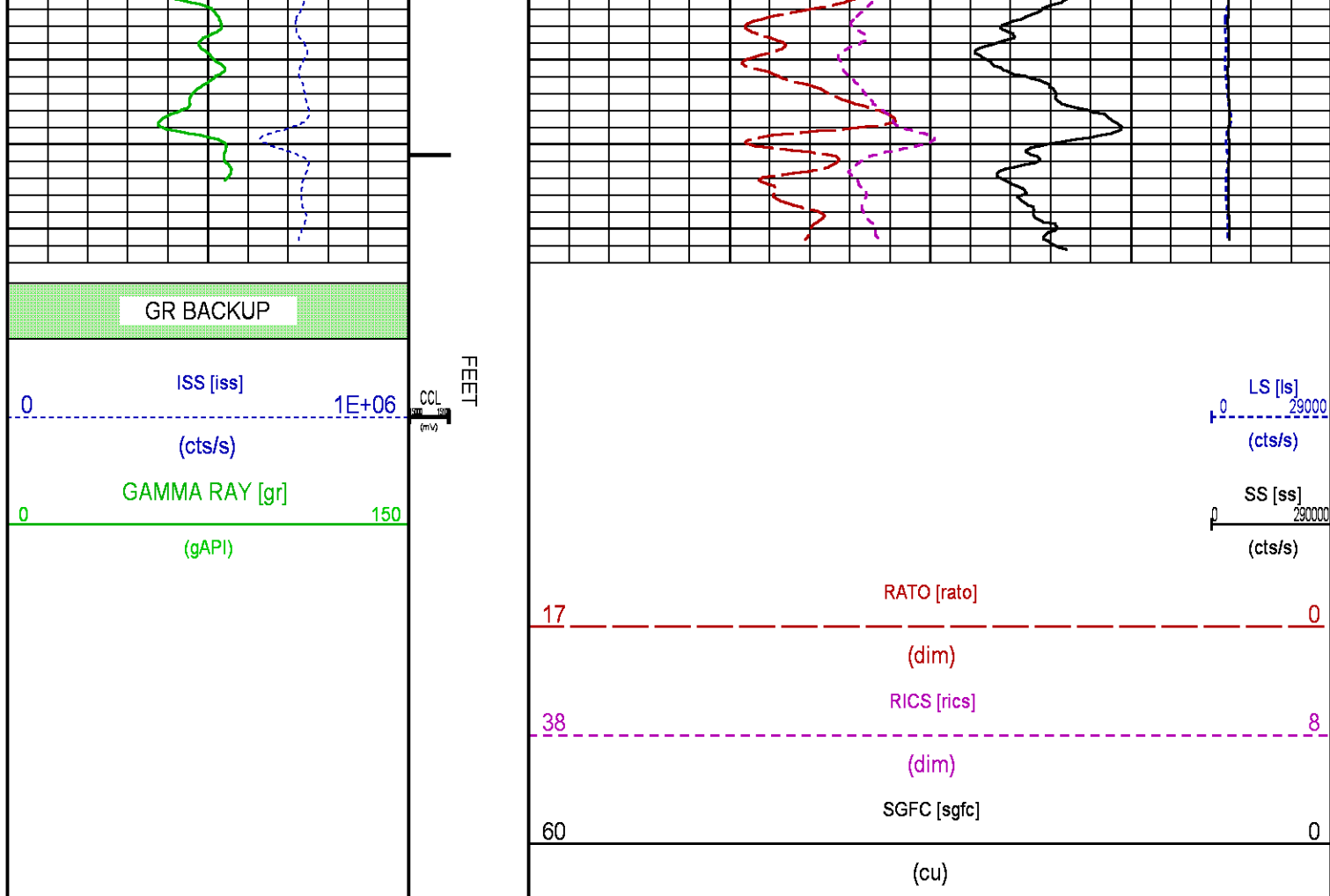
ISS [iss]
 0 1E+06
 (cts/s)
 GAMMA RAY [gr]
 0 150
 (gAPI)

CCL [mV]

LS [ls]
 0 29000
 (cts/s)
 SS [ss]
 0 290000
 (cts/s)

RATO [rato]
 17 0
 (dim)
 RICS [rics]
 38 8
 (dim)
 SGFC [sgfc]





CALIBRATION / VERIFICATION SUMMARY

Source File: /dat1a/CH096699/n353a.tp1

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 8262XA 10317216

DATE/TIME PERFORMED: Fri May 22 13:01:47 2015

UNIT #: 3885TC 6685

CALB JIG #: 4702NK VBA-905

| | BACKGROUND CALBRTR ON (cts/s) | CR DIFF (cts/s) | MULT | BACKGROUND CALBRTR ON (gAPI) | CALBRTR (gAPI) |
|----|----------------------------------|--------------------|-------|---------------------------------|-------------------|
| GR | 63.11 | 428.60 | 0.506 | 31.95 | 185 |

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 8262XA 10317216

DATE/TIME PERFORMED: Fri May 22 13:04:19 2015

UNIT #: 3885TC 6685

CALB JIG #: 4702NK VBA-905

UNIT #: 3885TC 6685

VERI JIG #: 4702NK VBA-905

| GR | BACKGROUND CALBRTR ON | | MULT | BACKGROUND CALBRTR ON | | DIFF. |
|----|-----------------------|---------|-------|-----------------------|--------|---------------|
| | (cts/s) | (cts/s) | | (gAPI) | (gAPI) | (gAPI) |
| | 62.44 | 421.13 | 0.506 | 31.61 | 213.17 | 181.56 |
| | | | | | | 175.00 195.00 |

RPM_PNC_3D PRIMARY CALIBRATION SUMMARY

TOOL: 8283PA 10169251

DATE/TIME PERFORMED: Tue May 19 11:16:07 2015

UNIT: 3885TC 6685

CALIBRATOR: 2437XB 112674

SOURCE: 8281AA 10220684

HOURS: 8281AA 394

| | ISS | Mtr Vlt (V) | SS Gain | LS Gain | XLS Gain | EA Temp (degF) | Sync Delay (usec) | RCAL |
|--------------|---------|----------------|---------|---------|----------|-------------------|----------------------|--------|
| Raw Data | 804964 | 125 | 2325 | 2308 | 2334 | 100 | 7.0 | 0.9825 |
| Interpolated | 1300000 | 147 | 2306 | 2301 | 2334 | | | |

| | ISS | BKS | BKL | BKX | SGA1 | SDA1 | SGA2 | SDA2 |
|----------|--------|------|------|-----|-------------|-----------|-------------|-----------|
| Raw Data | 804964 | 9205 | 1490 | 183 | 26.03 | 0.15 | 24.17 | 0.33 |
| | | | | | 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 | 804964 | 167561 | 26142 | 88307 | 31443 | 8234 | 53492 | 13175 |
| Fit Quality % | | 0.845 | 0.952 | 0.875 | 0.875 | 0.873 | 0.833 | 0.855 |

| | ISS | RBOR | RIN ISS/LS | RIN13 ISS/IXS | RICS ISS/CSS | RATO SS/LS | RTWO SS2/LS | RONE CSS/CLS |
|---------------|---------|-----------|---------------|------------------|-----------------|---------------|----------------|-----------------|
| Raw Data | 804964 | 1.44 | 4.80 | 30.80 | 15.05 | 10.73 | 3.82 | 4.06 |
| | | 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 % | | 0.036 | 0.198 | 0.106 | 0.120 | 0.213 | 0.203 | 0.183 |
| Reduced | 1400303 | 1.44 | 4.82 | 30.85 | 15.05 | 10.76 | 3.83 | 4.07 |
| | | 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 |

TPSETEMP PRIMARY CALIBRATION SUMMARY

TOOL #: 8255XA 176973

DATE/TIME PERFORMED: Thu Jun 19 09:53:23 2014

UNIT #: 3880TA HL6670

| | T(0) | T(1) | T(2) | T(3) |
|---------------------|---------------|--------------|--------------|---------------|
| Corr Coeff for Temp | -1.889935E+01 | 1.004280E-01 | 1.215976E-06 | -1.293045E-10 |

INSTRUMENT CONFIGURATION

Source File: /dat1a/CH096699/n353a~tdg

A3 CABLEHEAD

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

GAMMA RAY

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

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

BULL PLUG 1 11/16

TOTAL LENGTH: 34.08'
TOTAL WEIGHT: 144 lbs
MAX DIAMETER: 0'1.70"

34.08'

CCL MP 26.03'

GR MP 22.90'

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

TEMP MP 1.65'
PRES MP

0.00'



COMPANY
WELL
FIELD

WPX ENERGY
FEDERAL RGU 43-26-198
SUNSHINE CREEK

FILE NO:
CH096699



| | | | |
|-------------------------|----------------------|-------------|-----------------------|
| FIELD | <u>SULPHUR CREEK</u> | API NO: | |
| COUNTY | <u>RIO BLANCO</u> | STATE | <u>COLORADO</u> |
| | | | <u>05103119910000</u> |
| LOCATION: | | ELEVATIONS: | SEC 26 T1S R98W |
| SHL: 2447' FNL 897' FEL | | KB 6646 FT | RGU 42-26-198 |
| BHL: 2393' FSL 8' FEL | | DF | H&P 318 |
| | | GL 6622 FT | |
| SEC | <u>26</u> | TWP | <u>1S</u> |
| | | RGE | <u>98W</u> |
| | | DATE | <u>22-May-2015</u> |