



RADIAL ANALYSIS BOND LOG

Baker Atlas

File No: CH085066

API No: 05067098780000

Company Well Field County

SAMSON RESOURCES CO
COLORADO 32-7 #10-3
IGNACIO BLANCO
LA PLATA State

COL ORADO

LEASE# 039110

Location

LAT: 37.09076
LONG: -107.61847
SHL: 1450' FNL & 1680' FWL

SEC 4 TWP 32N RGE 7W

Other Services

RPM

Permanent Datum
Log Measured From
Drill Measured From

GL Elevation 6284 ft
KB 12 ft Above P. D.
KELLY BUSHING

Elevations
KB 6296 ft
DF
GL 6284 ft

| | |
|------------------------------|-------------------------|
| Date | 10/JUN/14 |
| Run | ONE |
| Service Order | US085066J |
| Depth Driller | 3360 ft |
| Depth Logger | 3304 ft |
| Bottom Logged Interval | 3294 ft |
| Top Logged Interval | 12 ft |
| Time Started | 1630 |
| Time Finished | 1800 |
| Operator Rig Time | 1.5 HRS |
| Type of Fluid in Hole | WATER |
| Fluid Density | NA |
| Salinity | NA |
| Fluid Level | 20 ft |
| Logged Cement Top | NA |
| Wellhead Pressure | 0 psi |
| Maximum Hole Deviation | 36 deg |
| Nominal Logging Speed | 66 fpm |
| Maximum Recorded Temperature | NA |
| Reference Log | NONE |
| Reference Log Date | NA |
| Equipment No. | 4271 |
| Location | FLORID RENEAU GRAND JCT |
| Recorded By | DOUG ZEINTZ |
| Witnessed By | |

- FOLD HERE

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 |
| 12.25 in | 12 ft | 361 ft |
| 7.875 in | 361 ft | 3360 ft |

| Casing Record | | | | |
|---------------|-----------|-------|-------|---------|
| Size | Weight | Grade | From | To |
| 8.625 in | 24 lbm/ft | J-55 | 12 ft | 361 ft |
| 5.5 in | 17 lbm/ft | J-55 | 12 ft | 3360 ft |

| Remarks |
|--|
| This was the first log for this well. Logged with zero PSI at wellhead. SJ = 1894'-1916' Thank you for choosing Baker Hughes. |

| Equipment Data | | | | | |
|----------------|------|--------|---------------|---------------|----------|
| Run | Trip | Tool | Series Number | Serial Number | Position |
| 1 | 1 | VDL | 1426XA | 10218496 | CENT |
| 1 | 1 | GR/CCL | 2459XA | 10417456 | CENT |

PRIMARY PRESENTATION

0 PSI

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | TOP | BOTTOM |
|------------------|-----------------------|---------|---------|--------|----------|
| RAL | Amp Gate Start Far | 325.000 | usec | 19.719 | 3318.500 |
| RAL | Amp Gate Start Near | 215.000 | usec | 19.719 | 3318.500 |
| RAL | Amp Gate Start Radial | 215.000 | usec | 19.719 | 3318.500 |
| RAL | Amp Gate Width Far | 25.000 | usec | 19.719 | 3318.500 |
| RAL | Amp Gate Width Near | 25.000 | usec | 19.719 | 3318.500 |
| RAL | Amp Gate Width Radial | 25.000 | usec | 19.719 | 3318.500 |
| RAL | casing od | 5.500 | inches | 19.719 | 3318.500 |
| RAL | casing wt | 17.000 | lbm/ft | 19.719 | 3318.500 |
| RAL | FB Start Far | 306.289 | usec | 19.719 | 3318.500 |
| RAL | FB Start Near | 189.780 | usec | 19.719 | 3318.500 |
| RAL | FB Start Radial | 189.780 | usec | 19.719 | 3318.500 |
| RAL | FB Thresh Far | 10.000 | mV | 19.719 | 3318.500 |
| RAL | FB Thresh Near | 4.000 | mV | 19.719 | 3318.500 |
| RAL | FB Thresh Radial | 4.000 | mV | 19.719 | 3318.500 |
| RAL | Fluid Travel Time | 200.000 | usec/ft | 19.719 | 3318.500 |

DEPTH OFFSETS

(for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES | | | | | |
|--------|--------------|-----------------|------|------|------|------|------|
| 1426XA | -16.750 | ACAL | ANR | AR1 | AR2 | AR3 | AR4 |
| | | AR5 | AR6 | AR7 | AR8 | CHV | FPR2 |
| | | FPR3 | FPR5 | TT3 | TTR1 | TTR2 | TTR3 |
| | | TTR4 | TTR5 | TTR6 | TTR7 | TTR8 | XAMP |
| 1426XA | -15.750 | AFAR | SIG | TT5 | | | |
| 2459XA | -14.750 | | | | | | |

| | | |
|--------|---------|-----|
| 2459XA | -11.340 | CCL |
| 2459XA | -9.490 | GR |
| 2459XA | -4.090 | NEU |

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : SAMSON RESOURCES CO

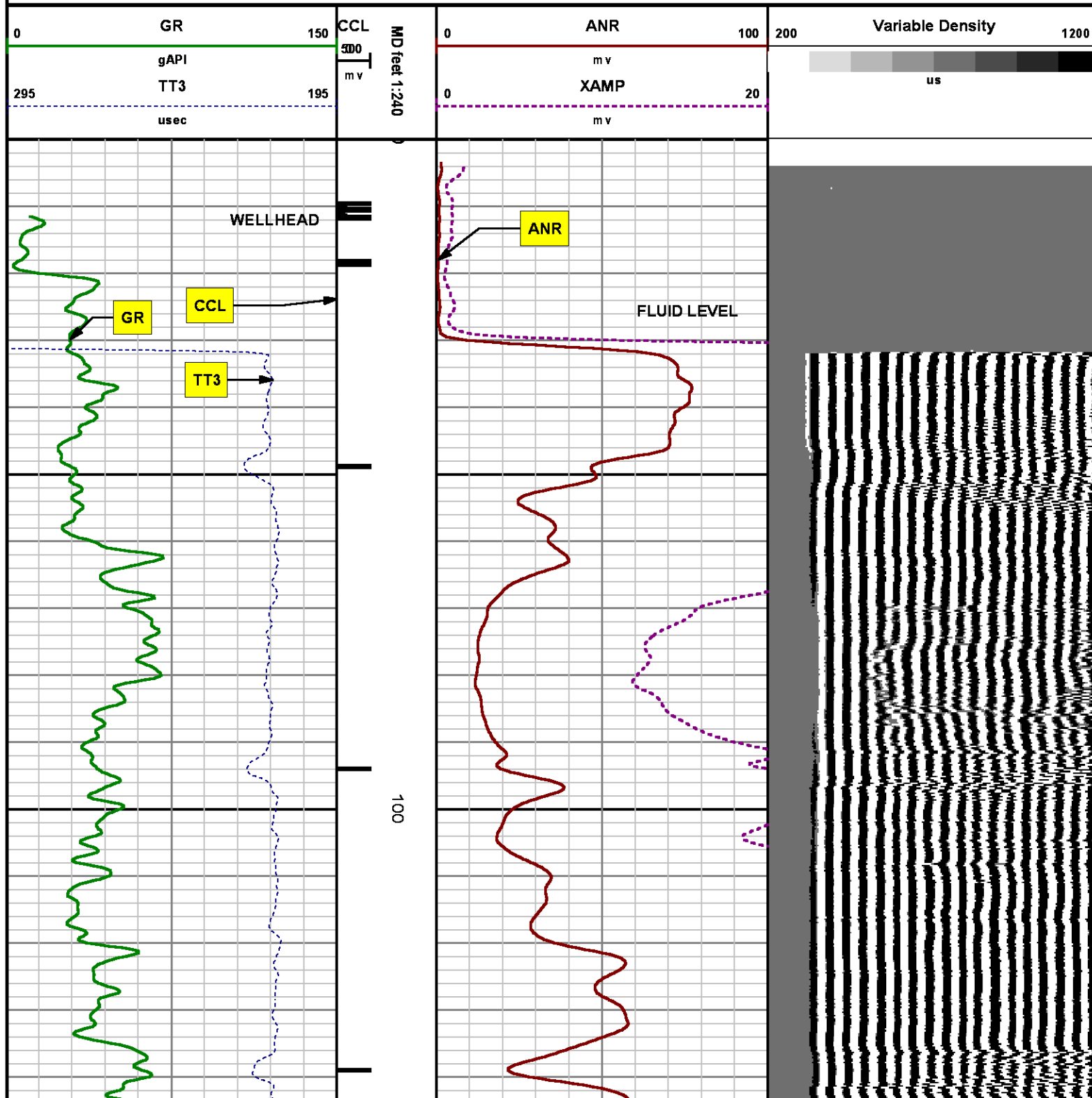
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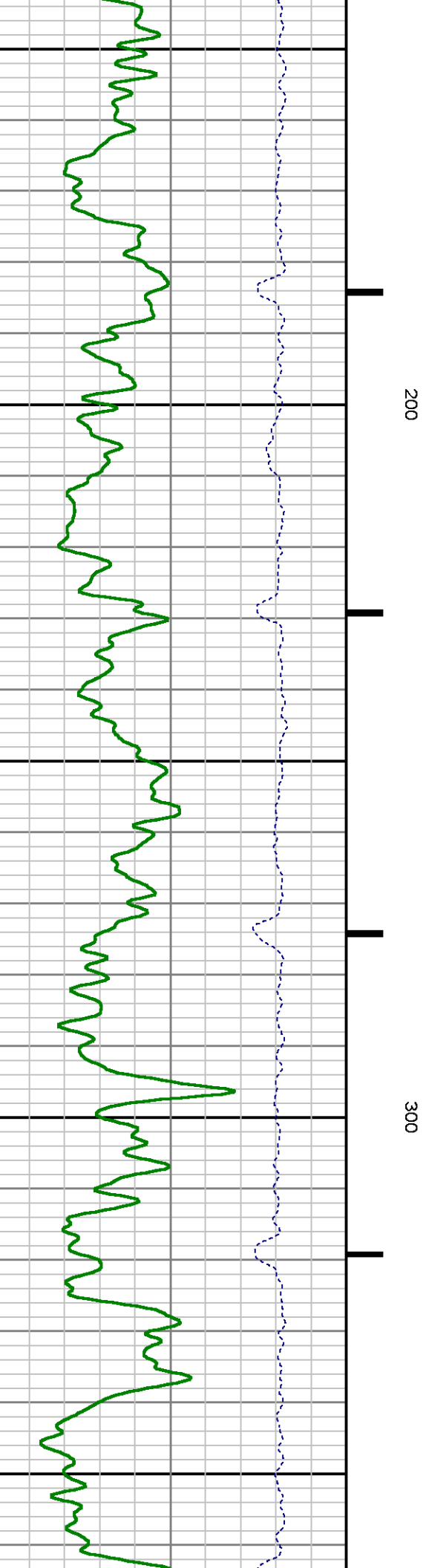
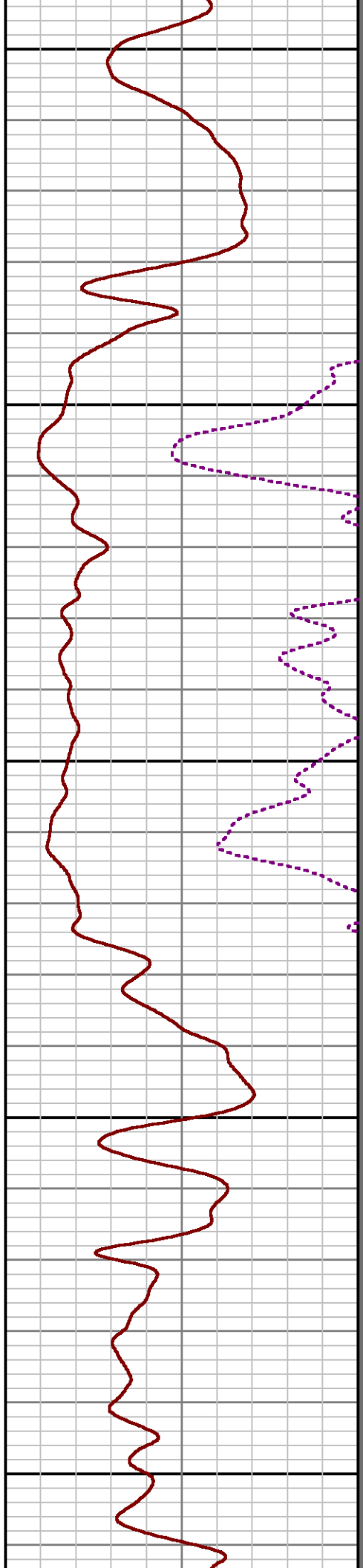
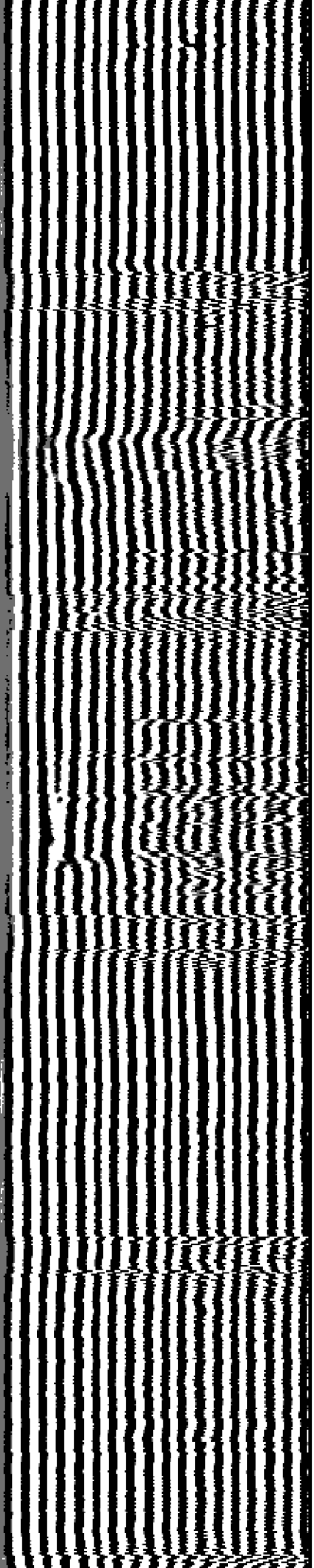
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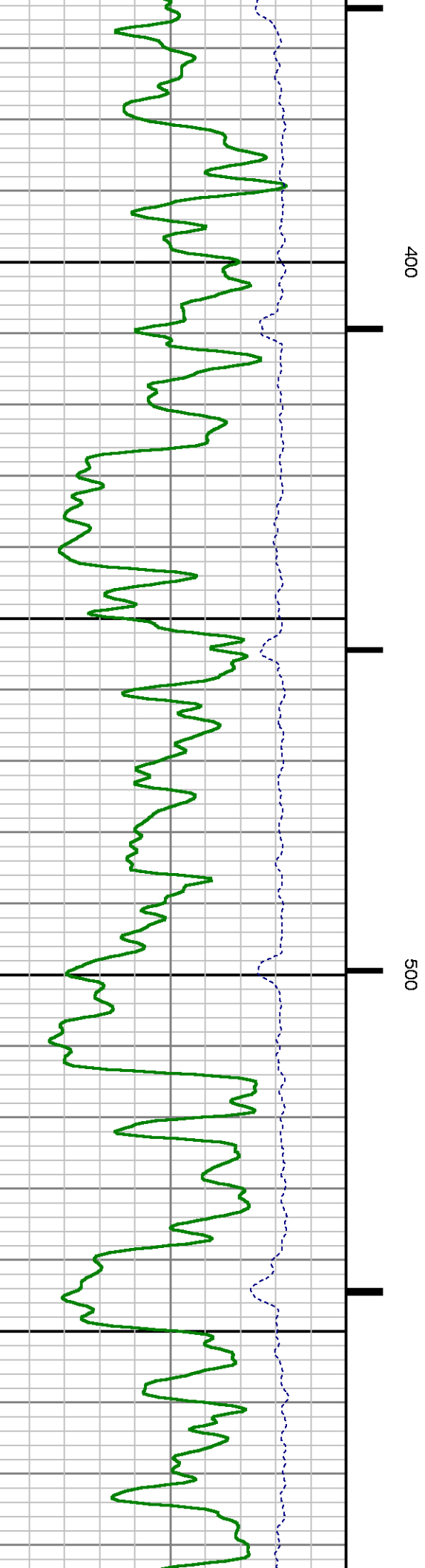
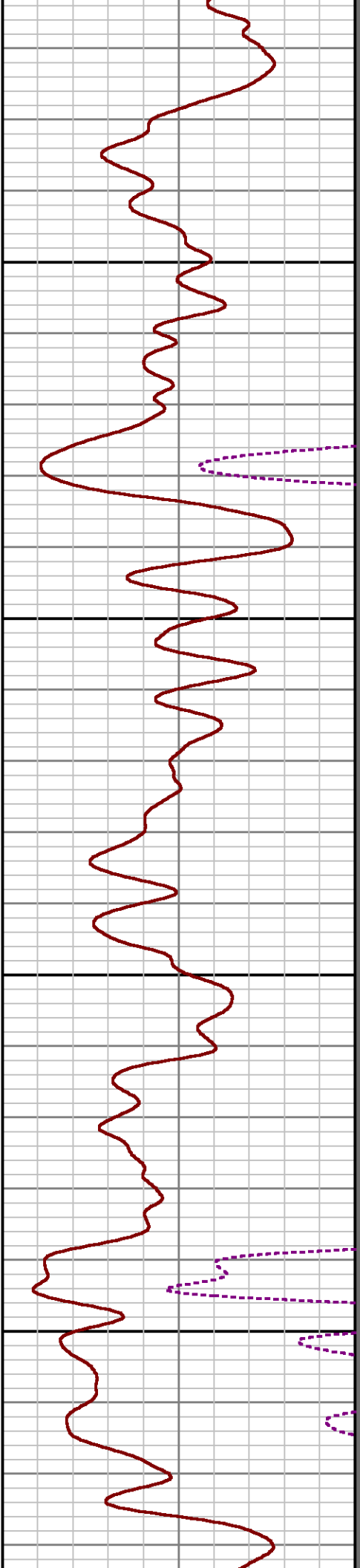
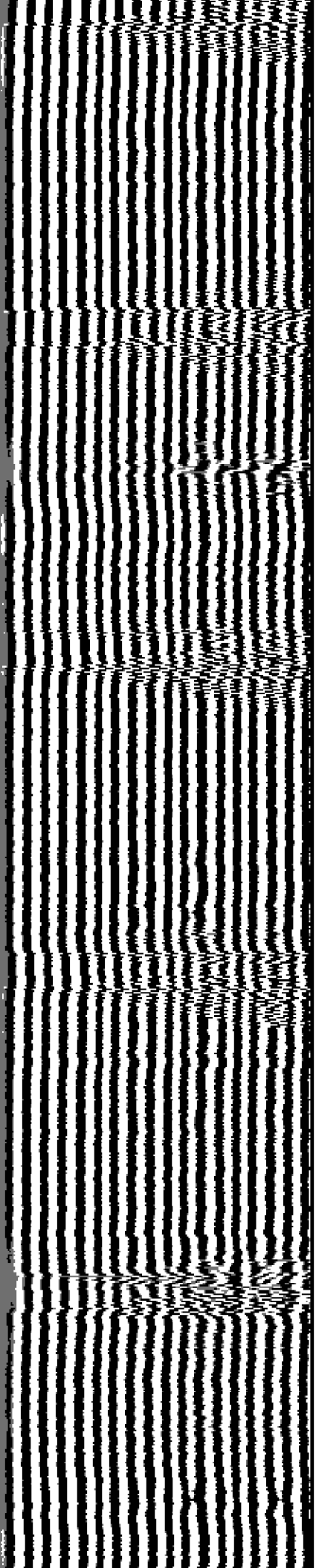
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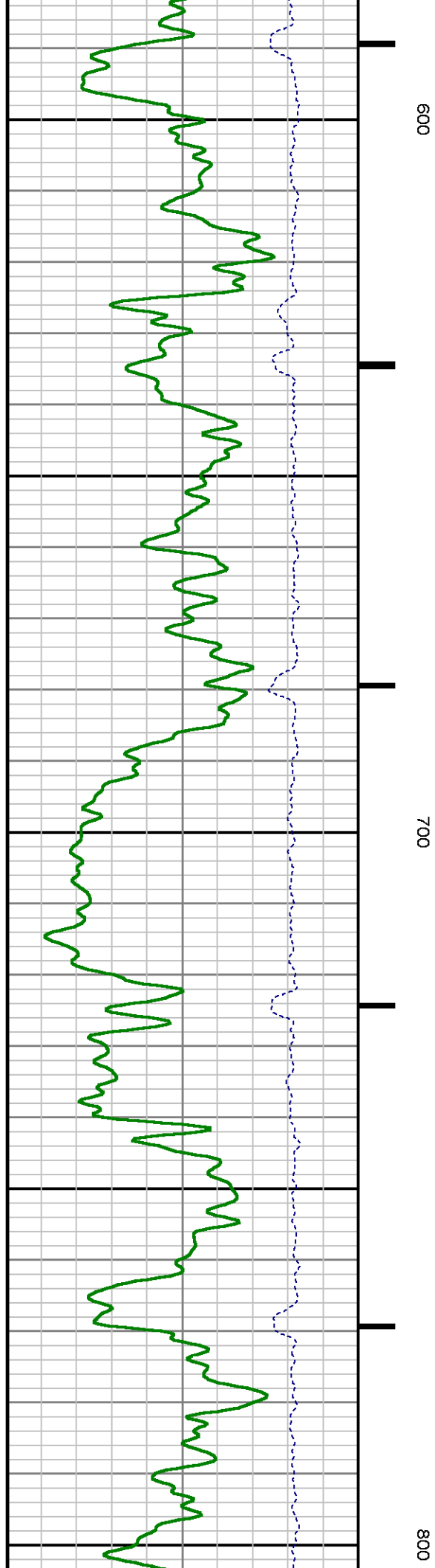
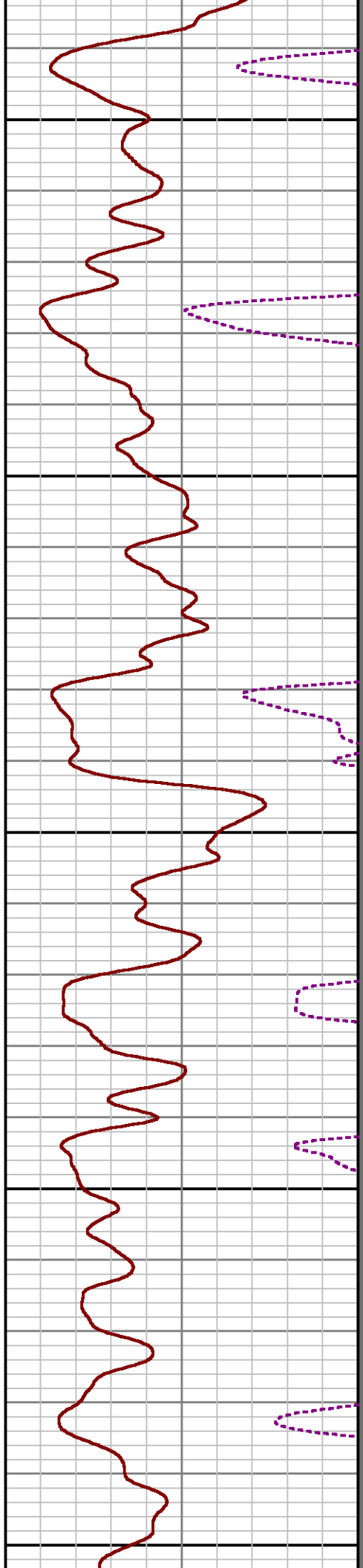
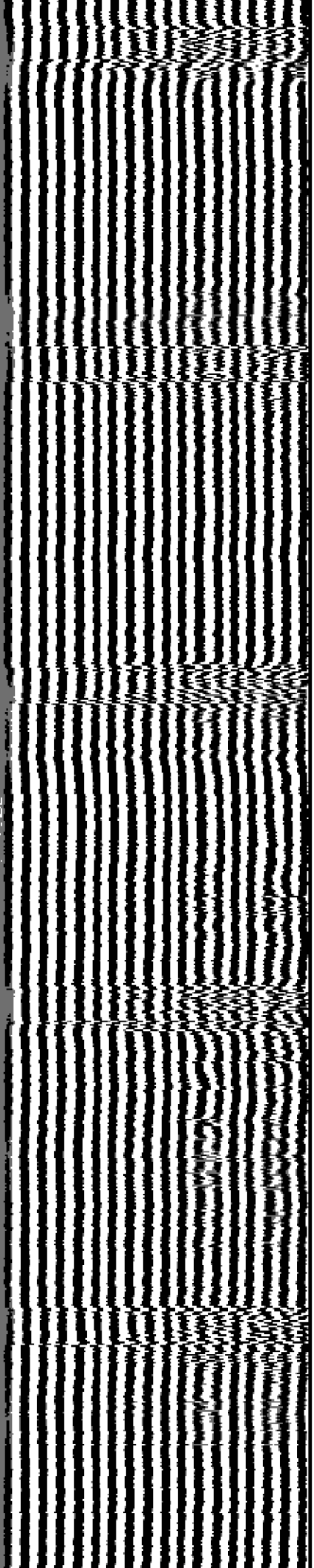
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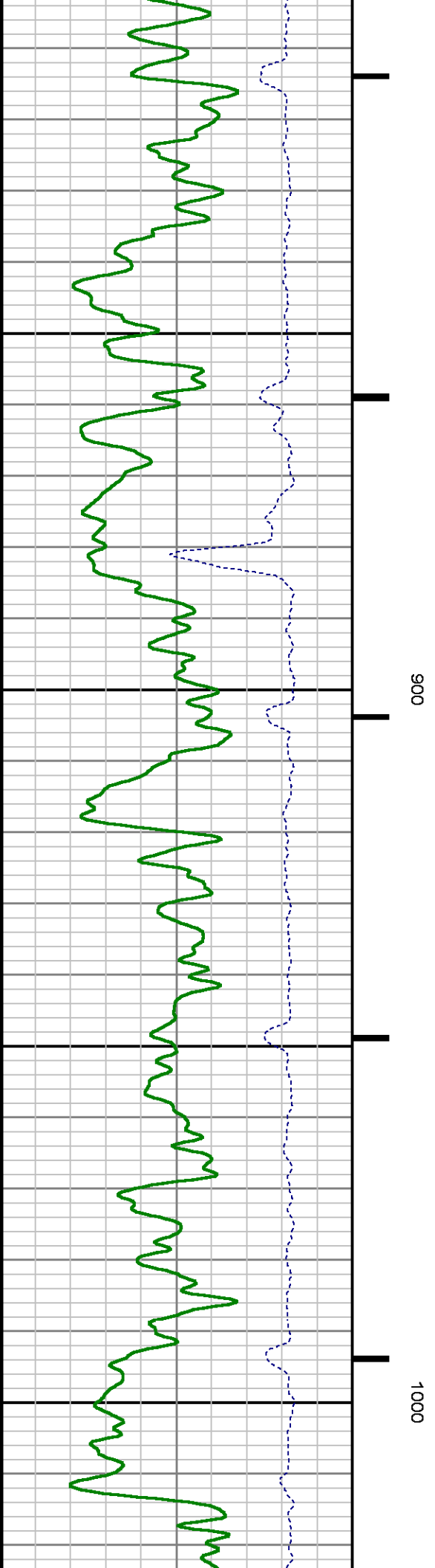
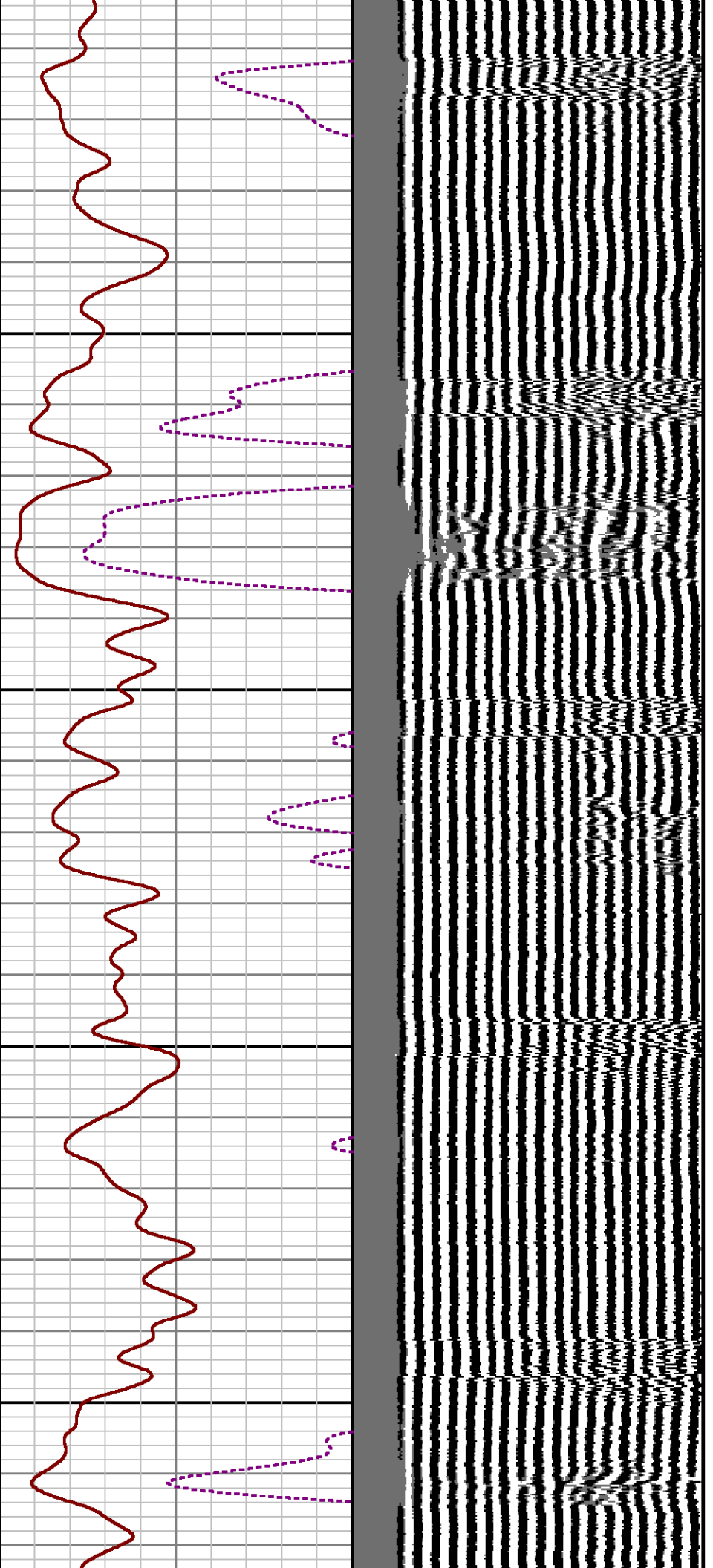
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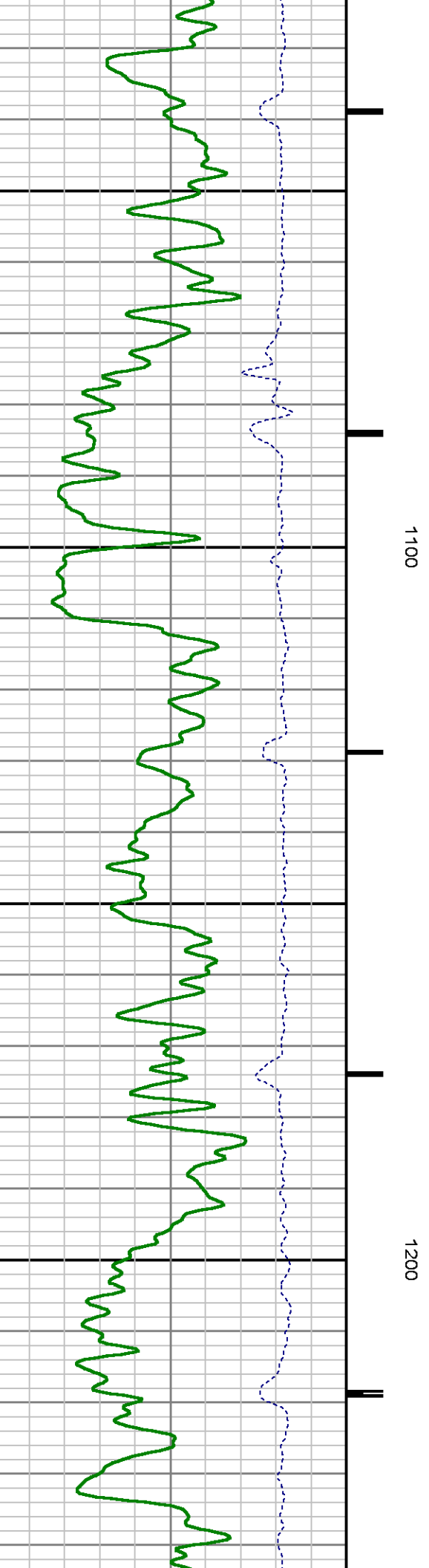
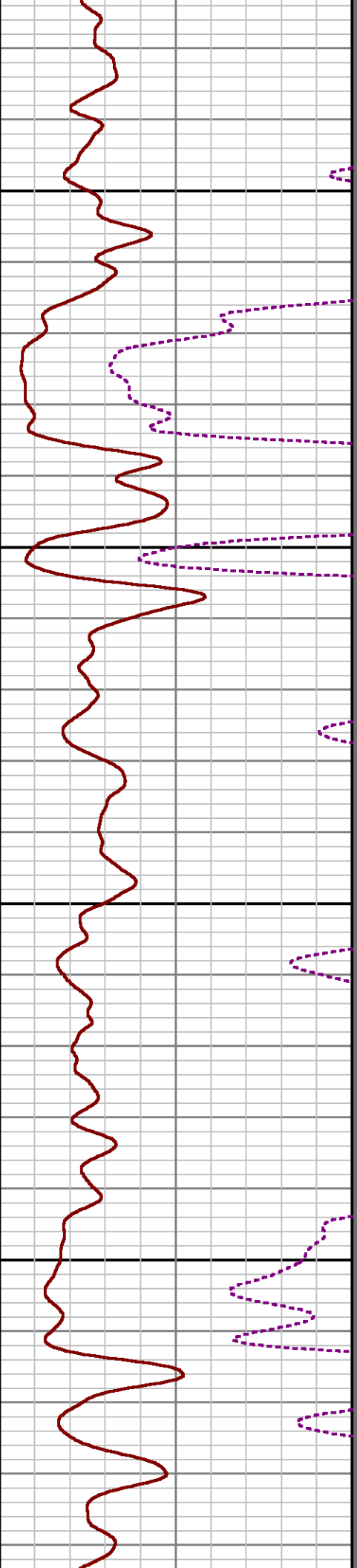
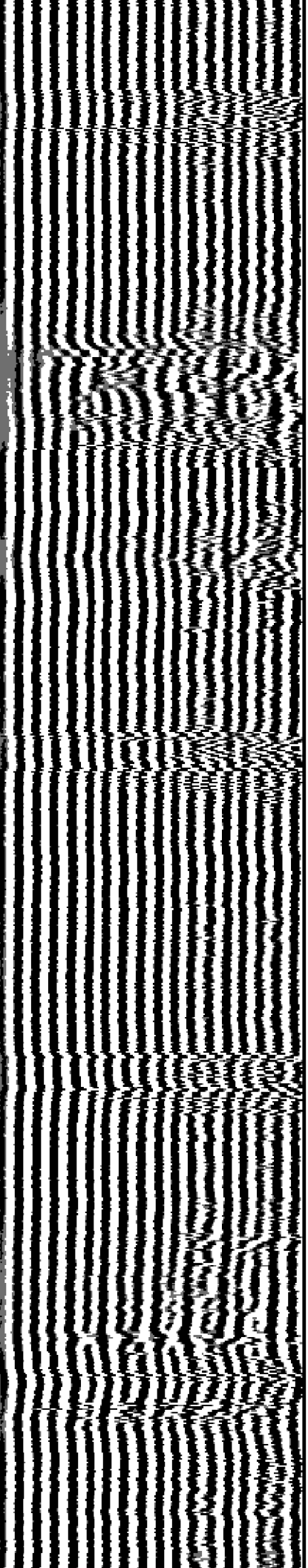


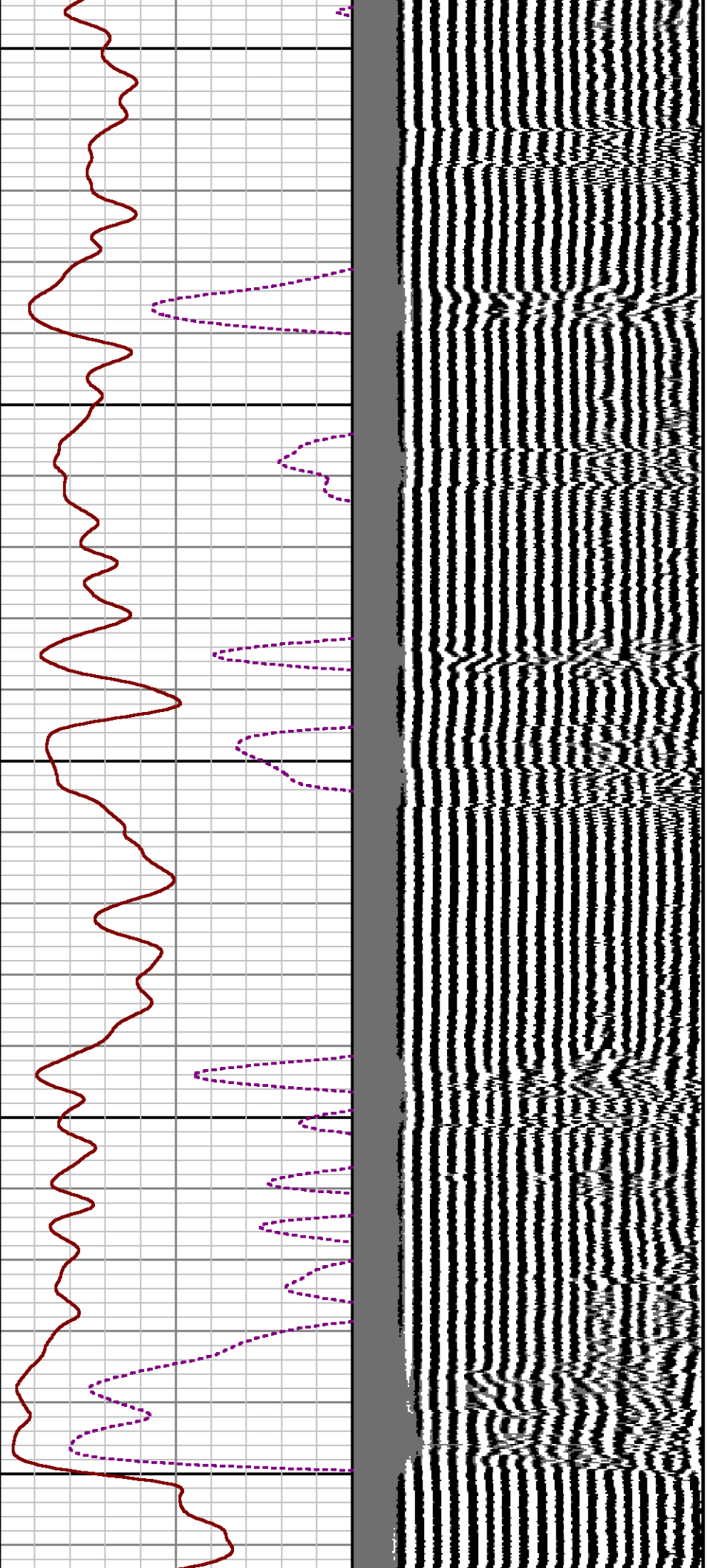






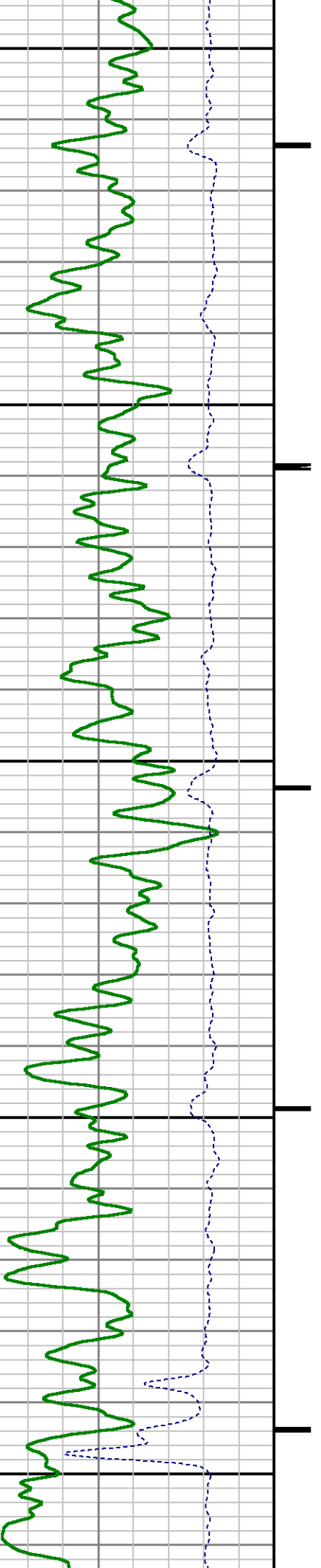


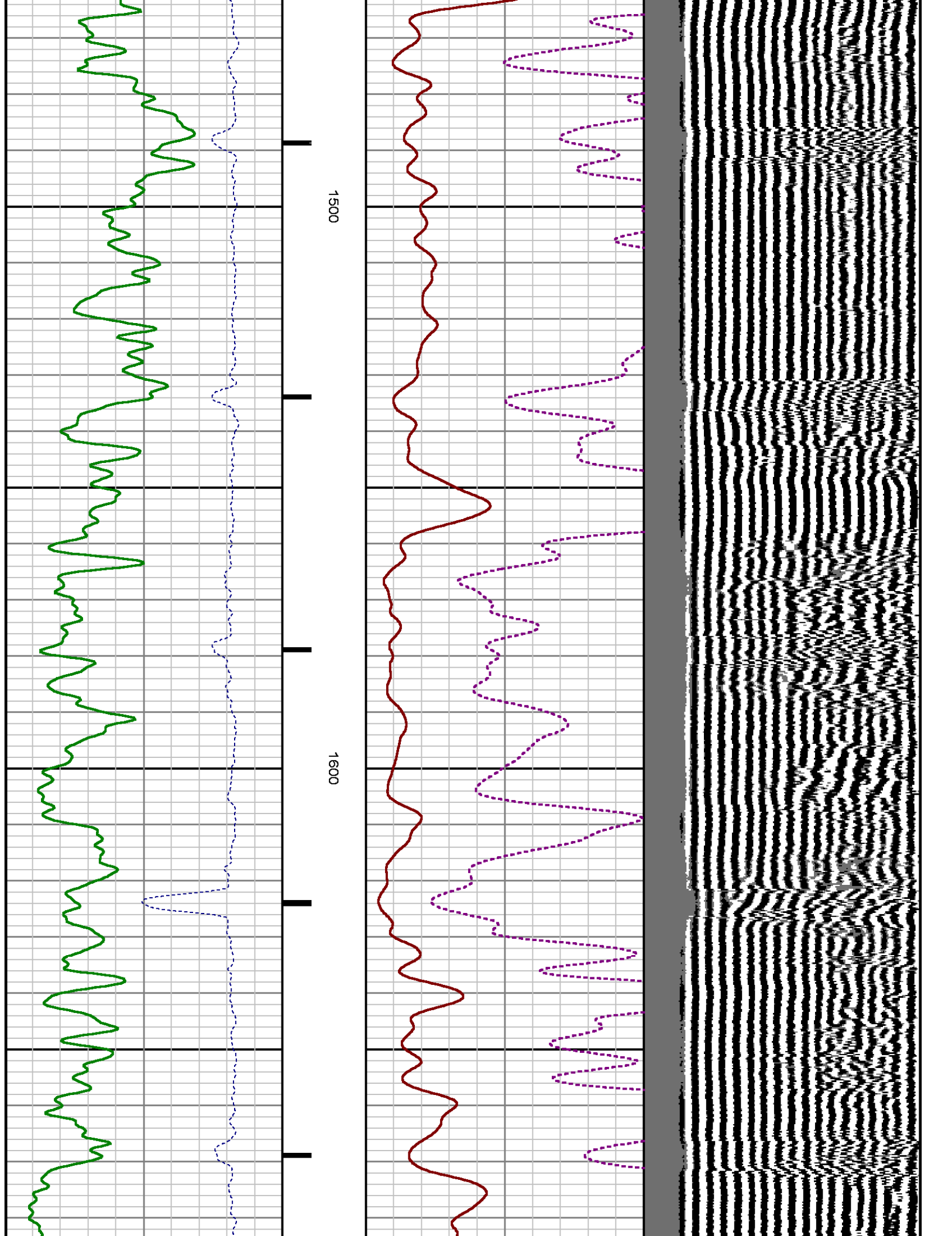


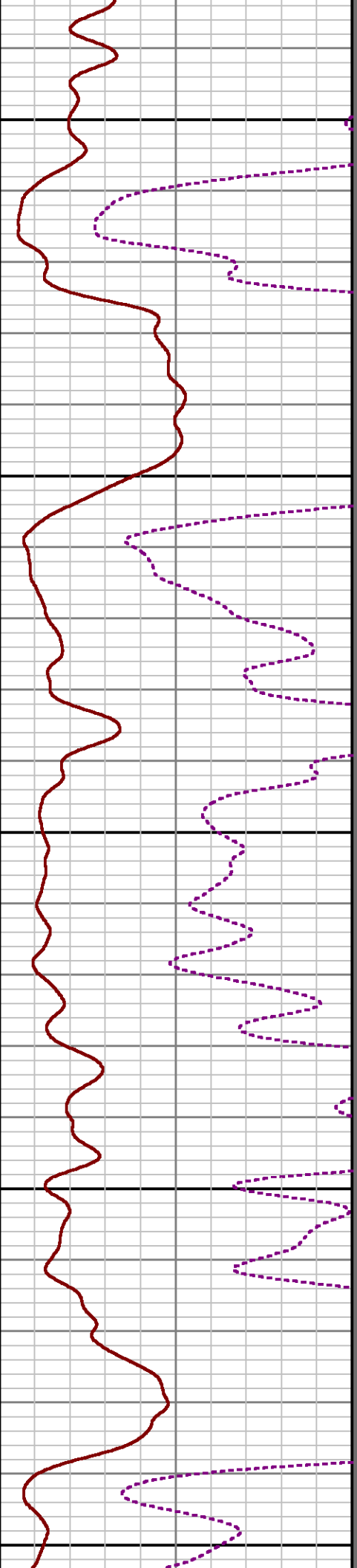
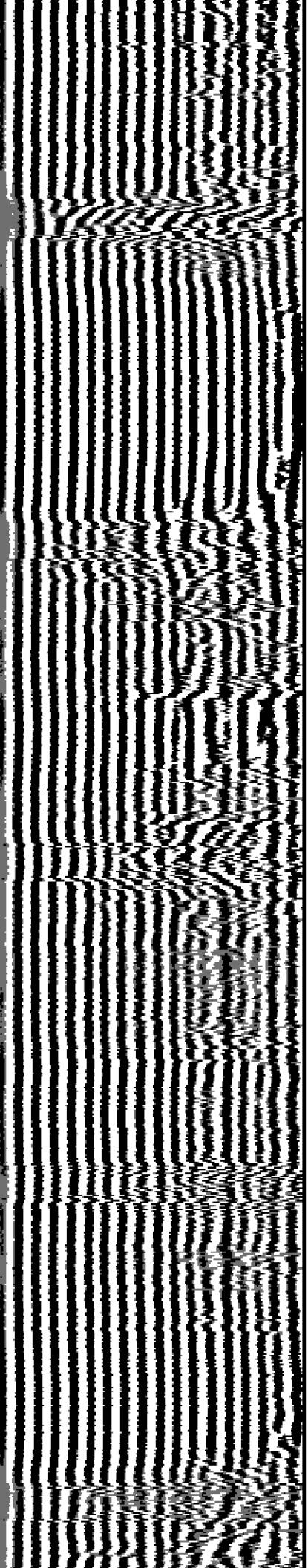


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1400



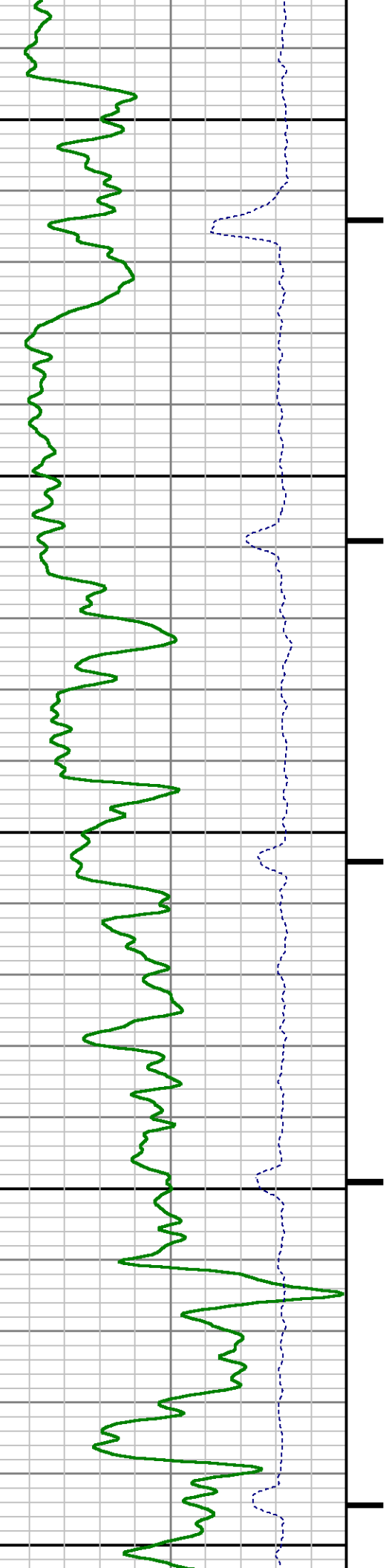


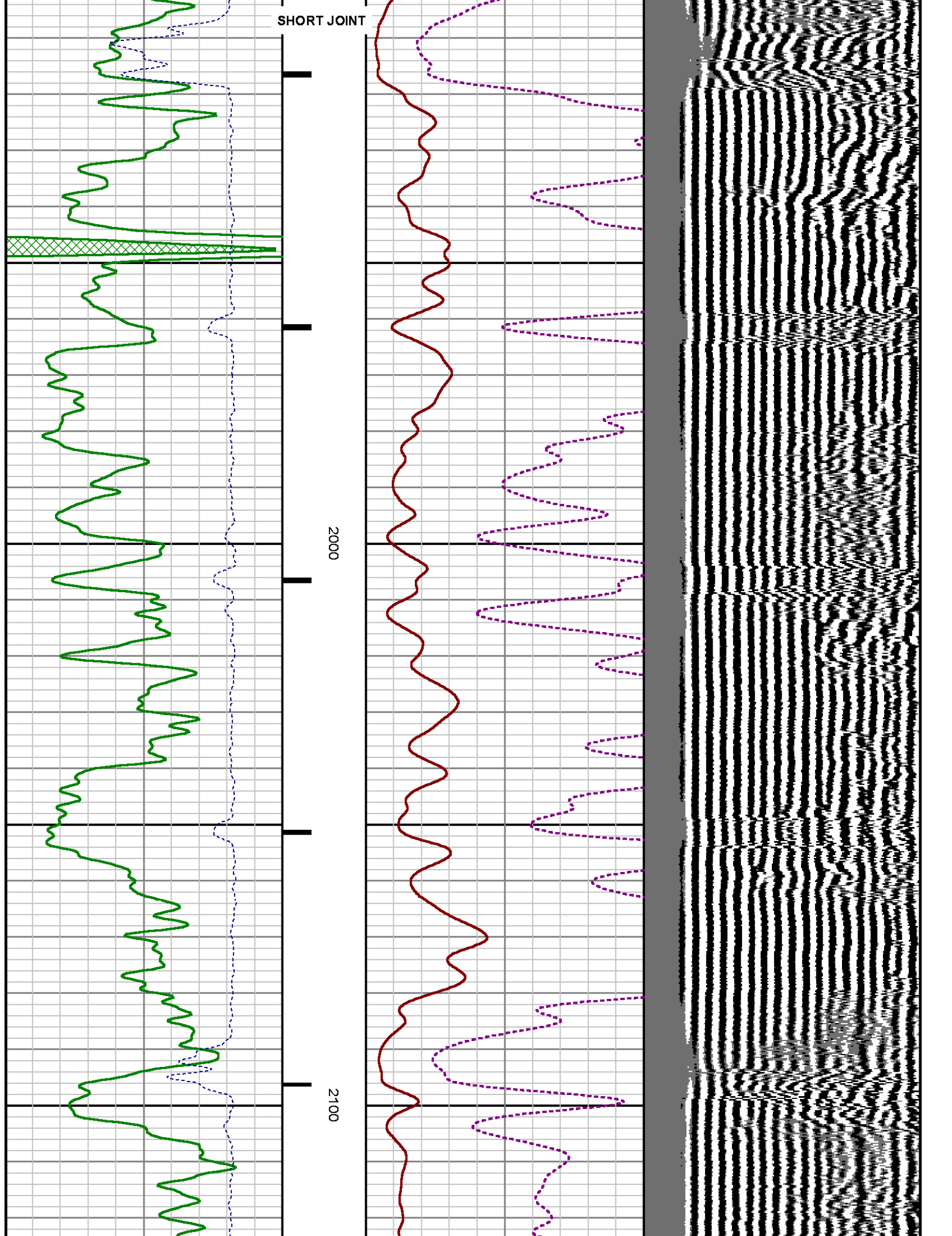


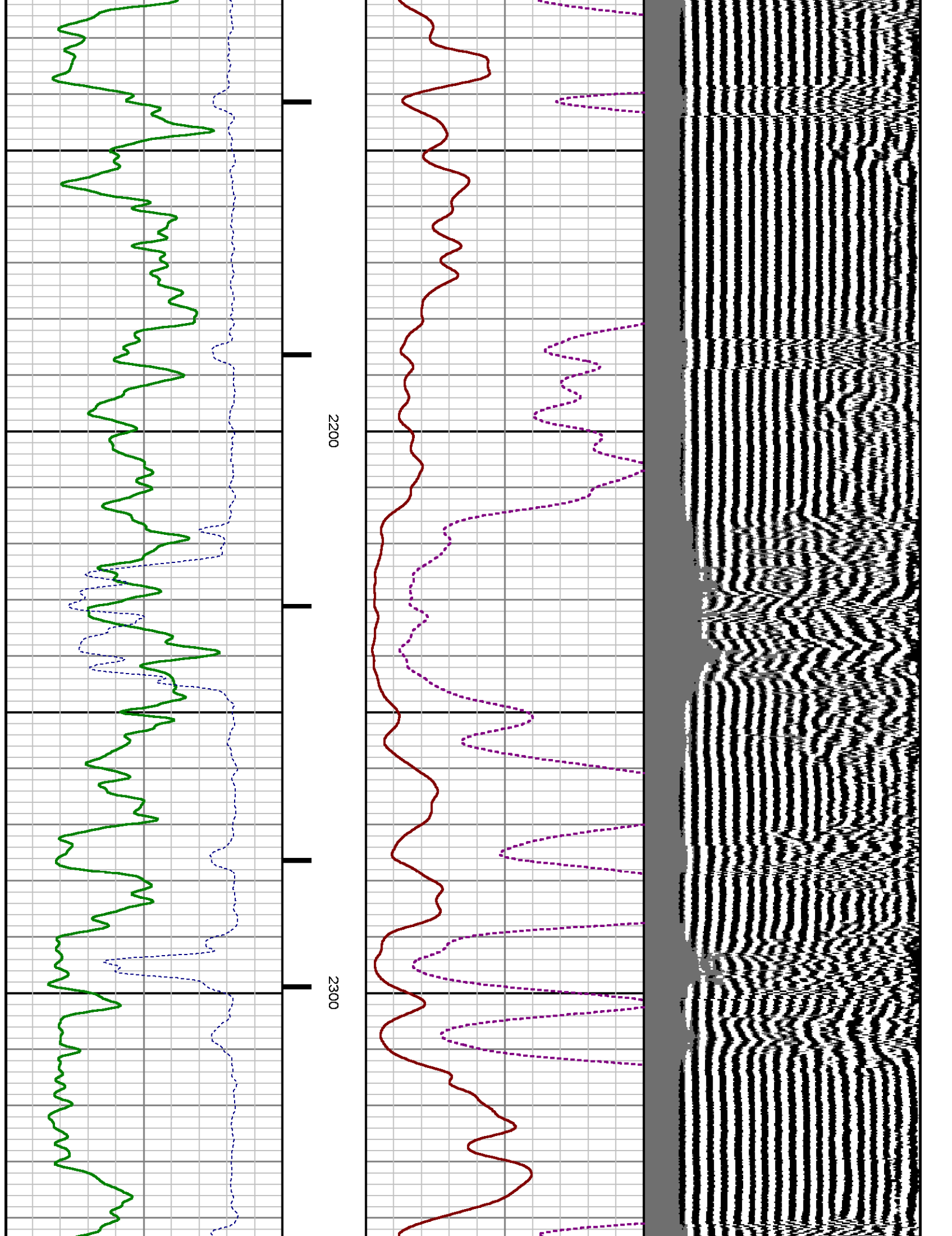
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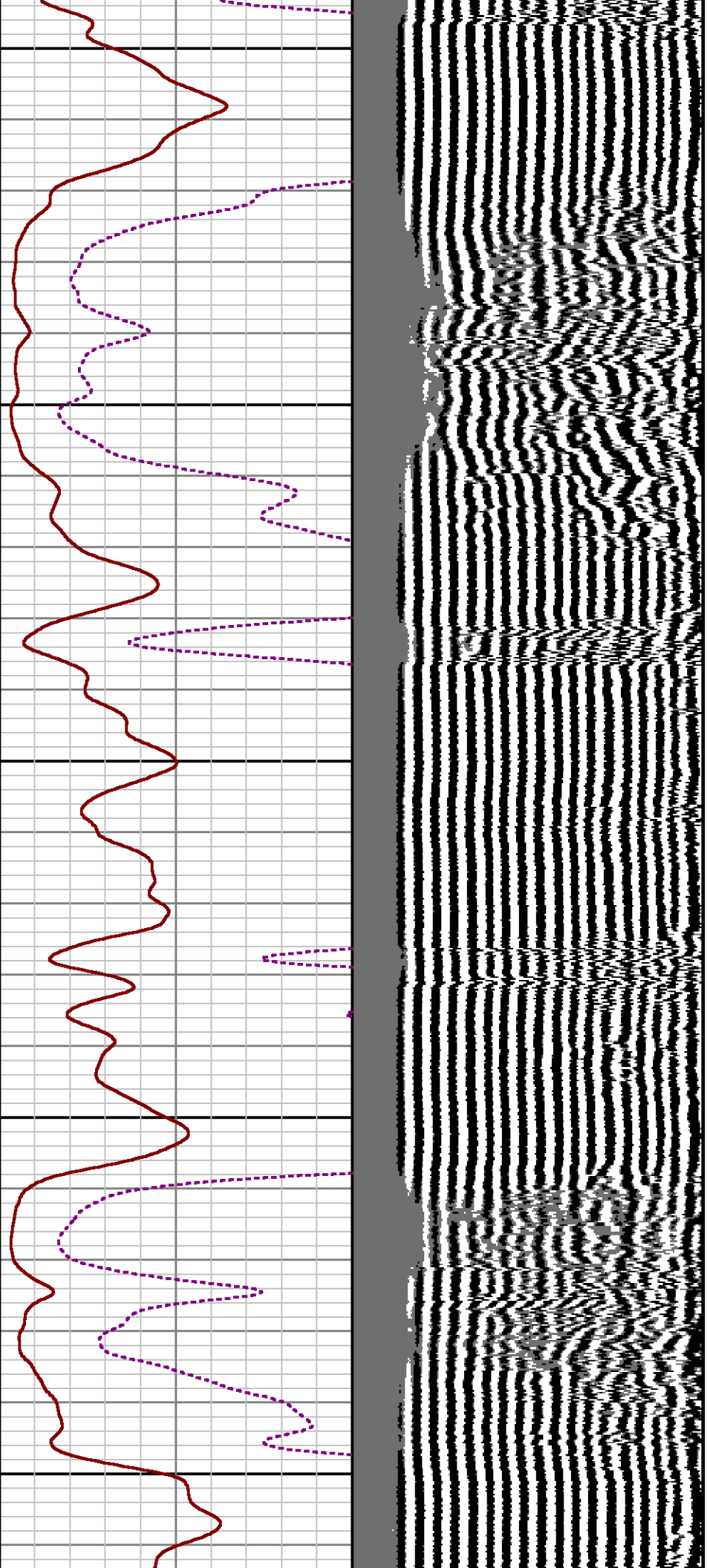
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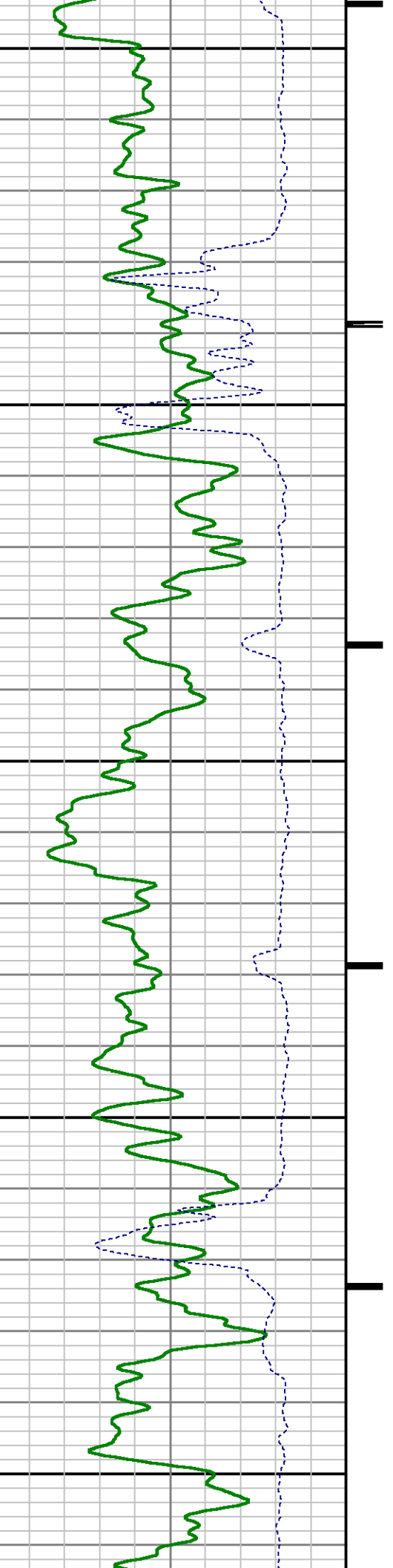


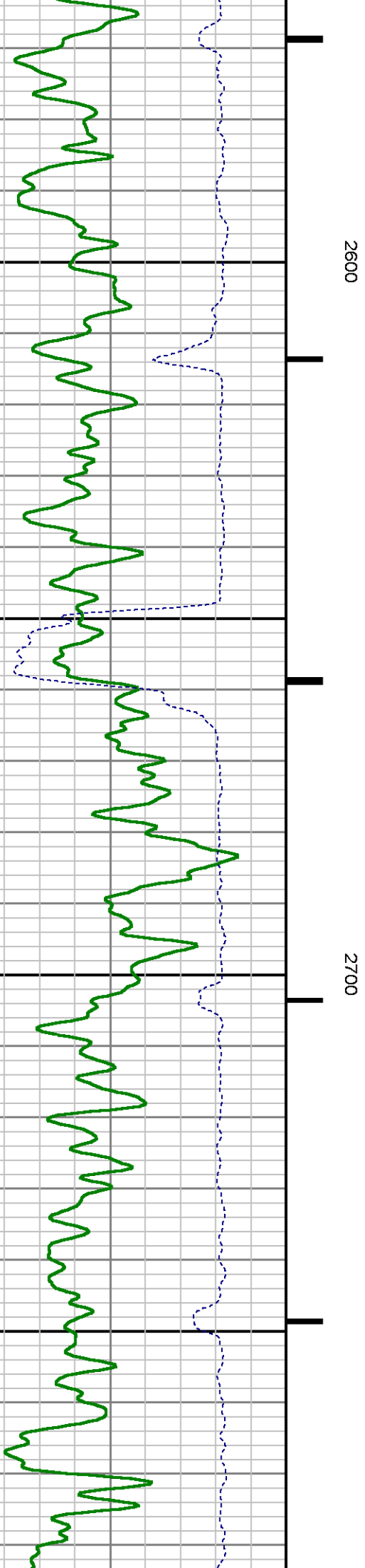
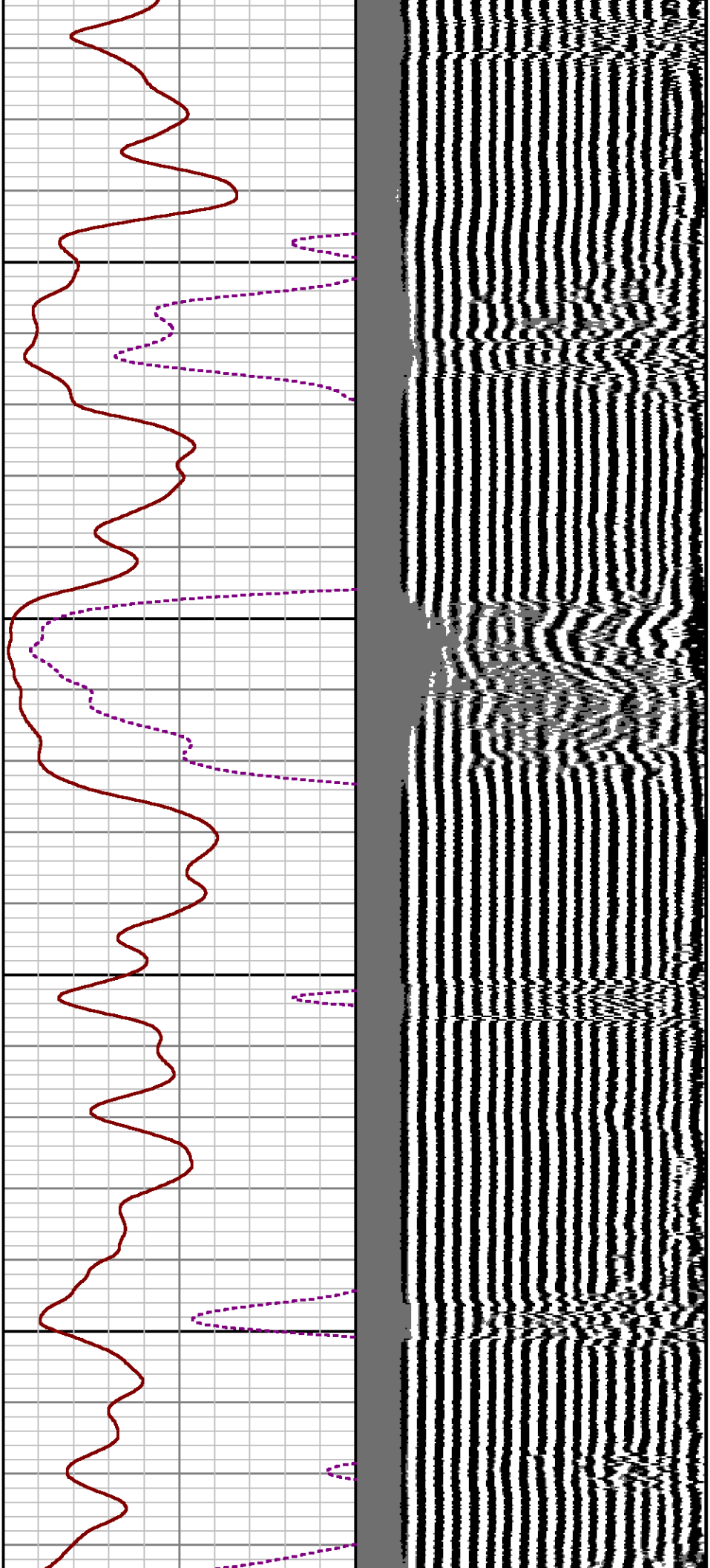


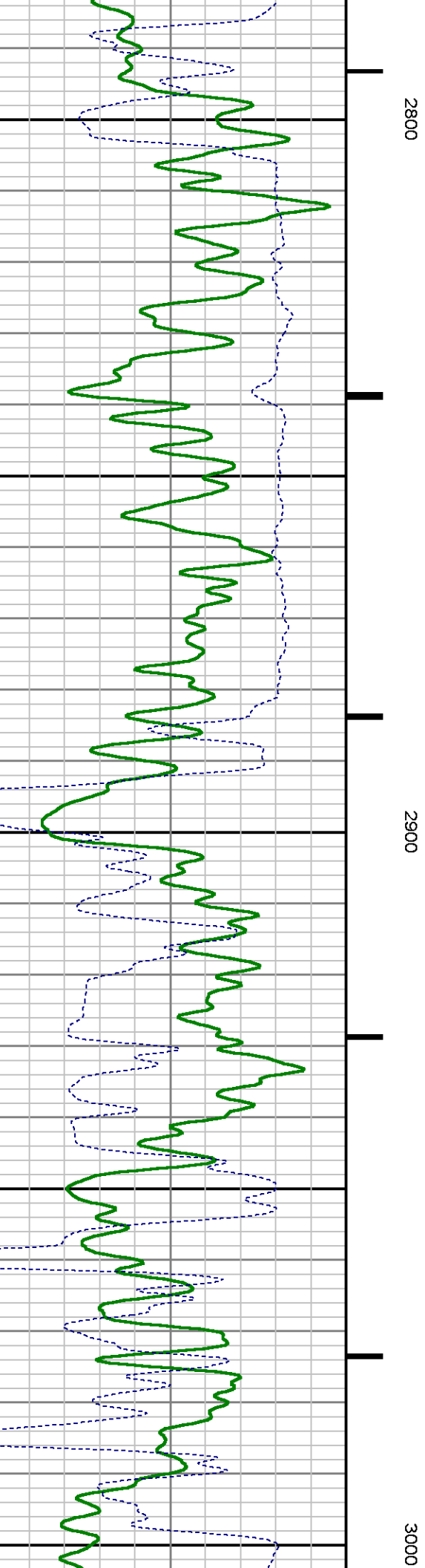
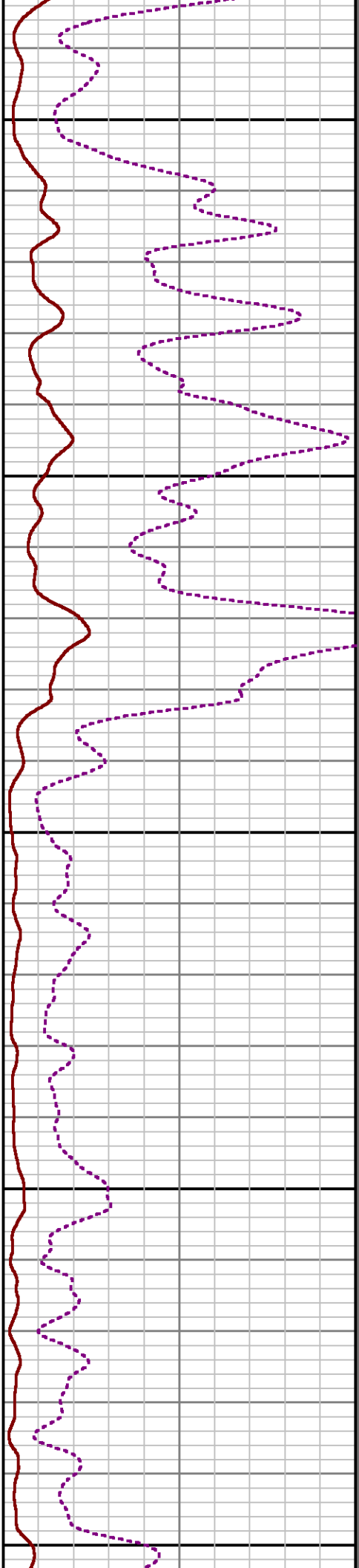
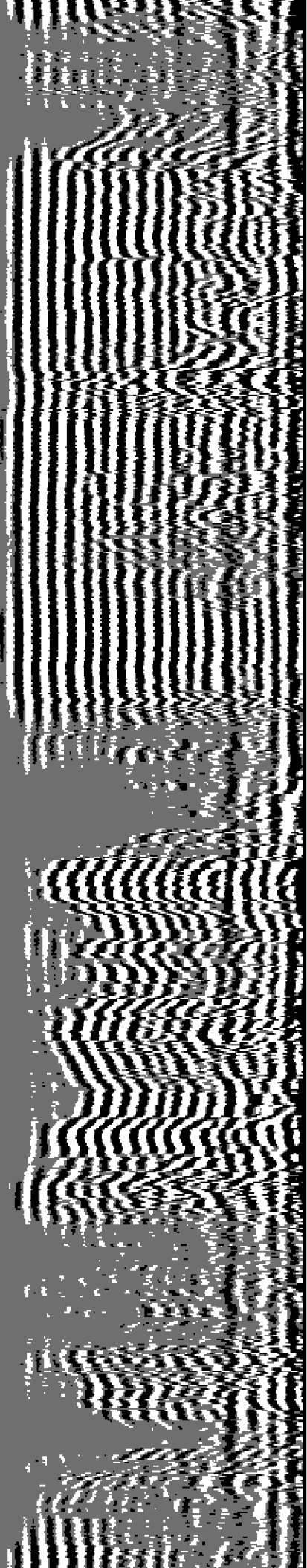


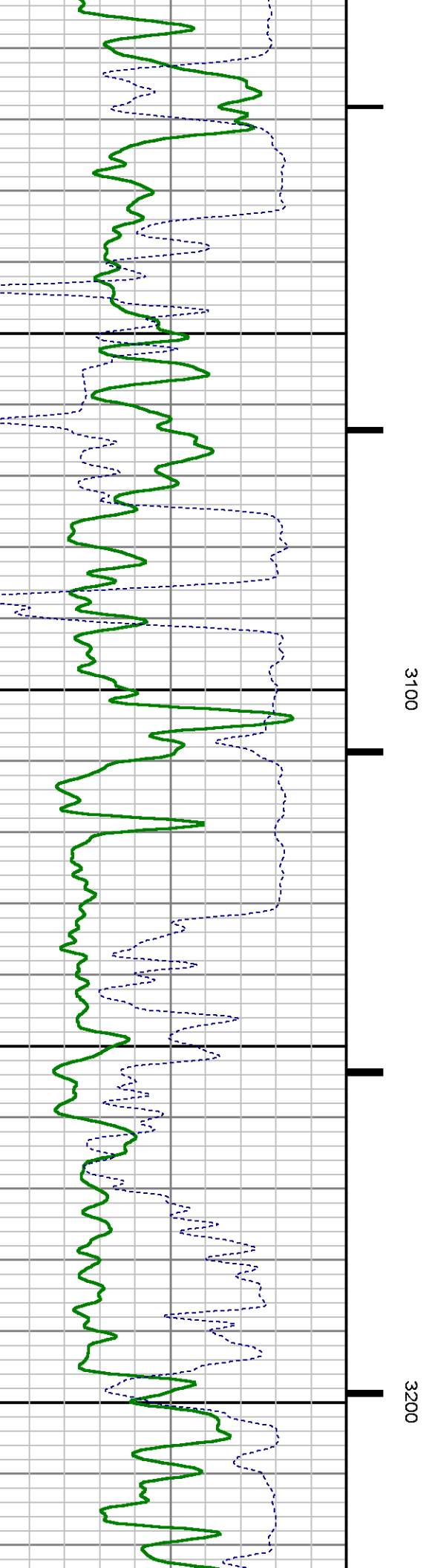
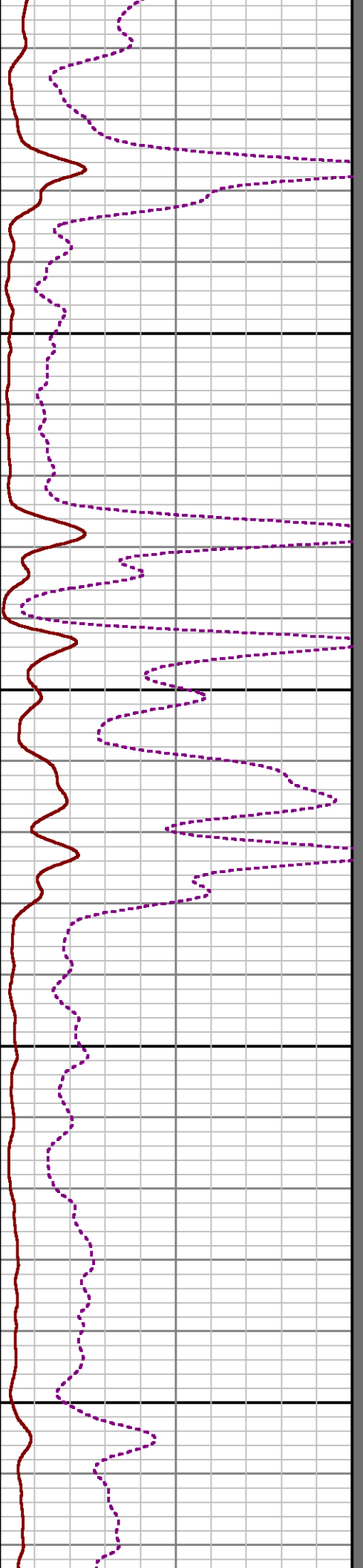
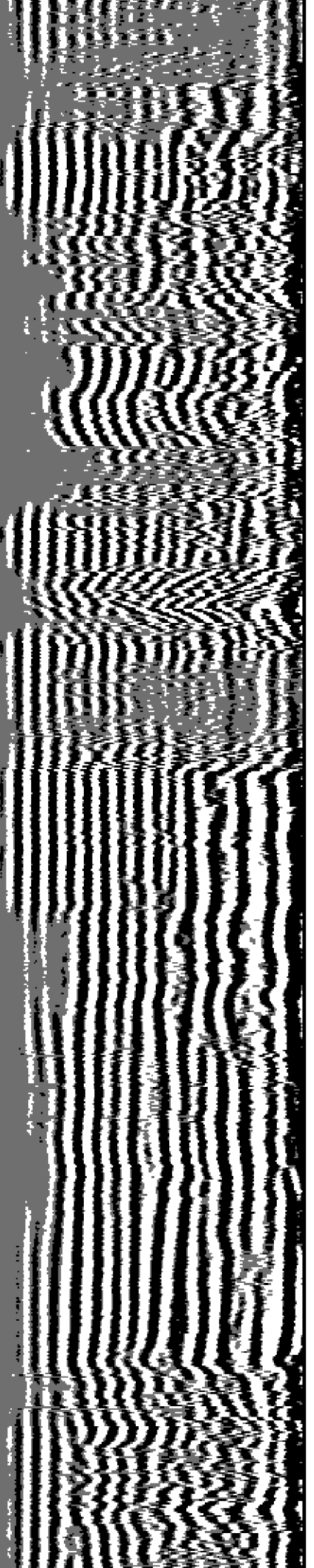
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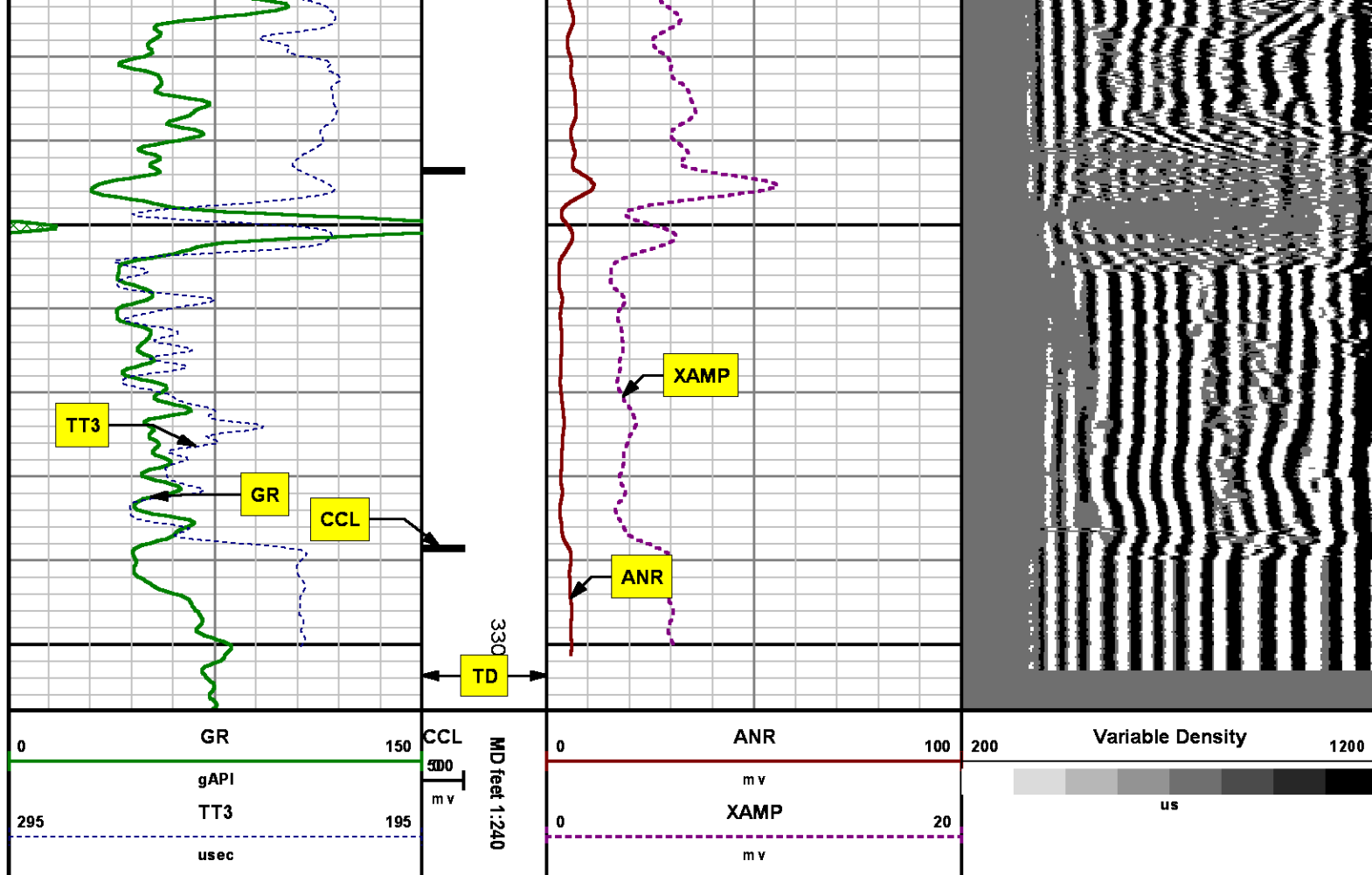
2500











REPEAT SECTION
0 PSI

| MEASUREMENT TYPE | PARAMETER | VALUE | UNITS | TOP | BOTTOM |
|------------------|-----------------------|---------|--------|----------|----------|
| RAL | Amp Gate Start Far | 325.000 | usec | 3085.560 | 3313.810 |
| RAL | Amp Gate Start Near | 215.000 | usec | 3085.560 | 3313.810 |
| RAL | Amp Gate Start Radial | 215.000 | usec | 3085.560 | 3313.810 |
| RAL | Amp Gate Width Far | 25.000 | usec | 3085.560 | 3313.810 |
| RAL | Amp Gate Width Near | 25.000 | usec | 3085.560 | 3313.810 |
| RAL | Amp Gate Width Radial | 25.000 | usec | 3085.560 | 3313.810 |
| RAL | casing od | 5.500 | inches | 3085.560 | 3313.810 |
| RAL | casing wt | 17.000 | lbm/ft | 3085.560 | 3313.810 |
| RAL | FB Start Far | 306.289 | usec | 3085.560 | 3313.810 |
| RAL | FB Start Near | 189.780 | usec | 3085.560 | 3313.810 |

| | | | | | |
|-----|-------------------|---------|---------|----------|----------|
| RAL | FB Start Radial | 189.780 | usec | 3085.560 | 3313.810 |
| RAL | FB Thresh Far | 10.000 | mv | 3085.560 | 3313.810 |
| RAL | FB Thresh Near | 4.000 | mv | 3085.560 | 3313.810 |
| RAL | FB Thresh Radial | 4.000 | mv | 3085.560 | 3313.810 |
| RAL | Fluid Travel Time | 200.000 | usec/ft | 3085.560 | 3313.404 |

DEPTH OFFSETS

(for Acquired Curves)

| SERIES | DEPTH OFFSET | ACQUIRED CURVES | | | | | |
|--------|--------------|-----------------|------|------|------|------|------|
| 1426XA | -16.750 | ACAL | ANR | AR1 | AR2 | AR3 | AR4 |
| | | AR5 | AR6 | AR7 | AR8 | CHV | FPR2 |
| | | FPR3 | FPR5 | TT3 | TTR1 | TTR2 | TTR3 |
| | | TTR4 | TTR5 | TTR6 | TTR7 | TTR8 | XAMP |
| 1426XA | -15.750 | AFAR | SIG | TT5 | | | |
| 2459XA | -11.340 | CCL | | | | | |
| 2459XA | -9.490 | GR | | | | | |
| 2459XA | -4.090 | NEU | | | | | |

Created by : RAL, v4.8.008

Plotted by : PlotMgr, v5.4.504

Company : SAMSON RESOURCES CO

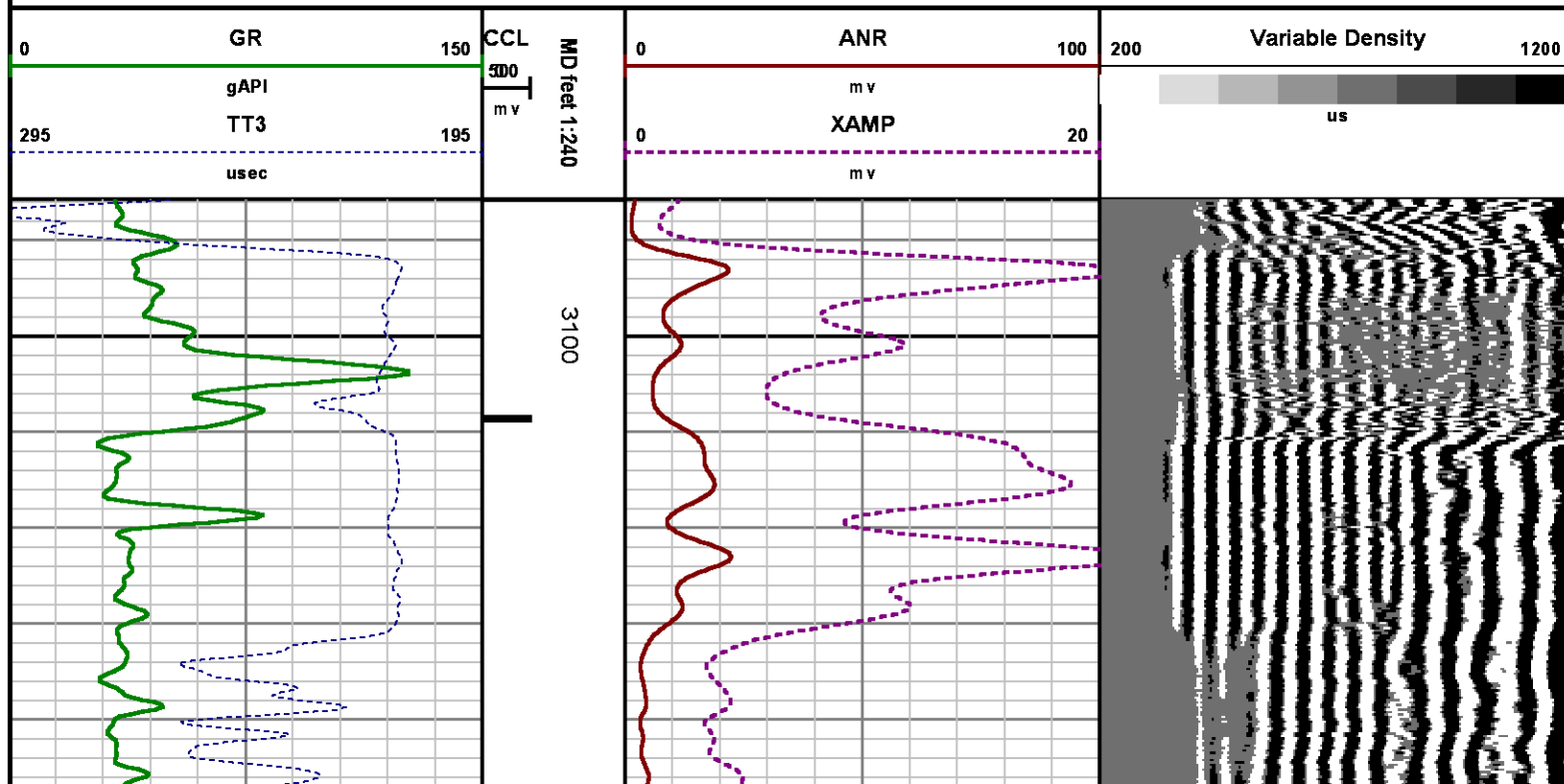
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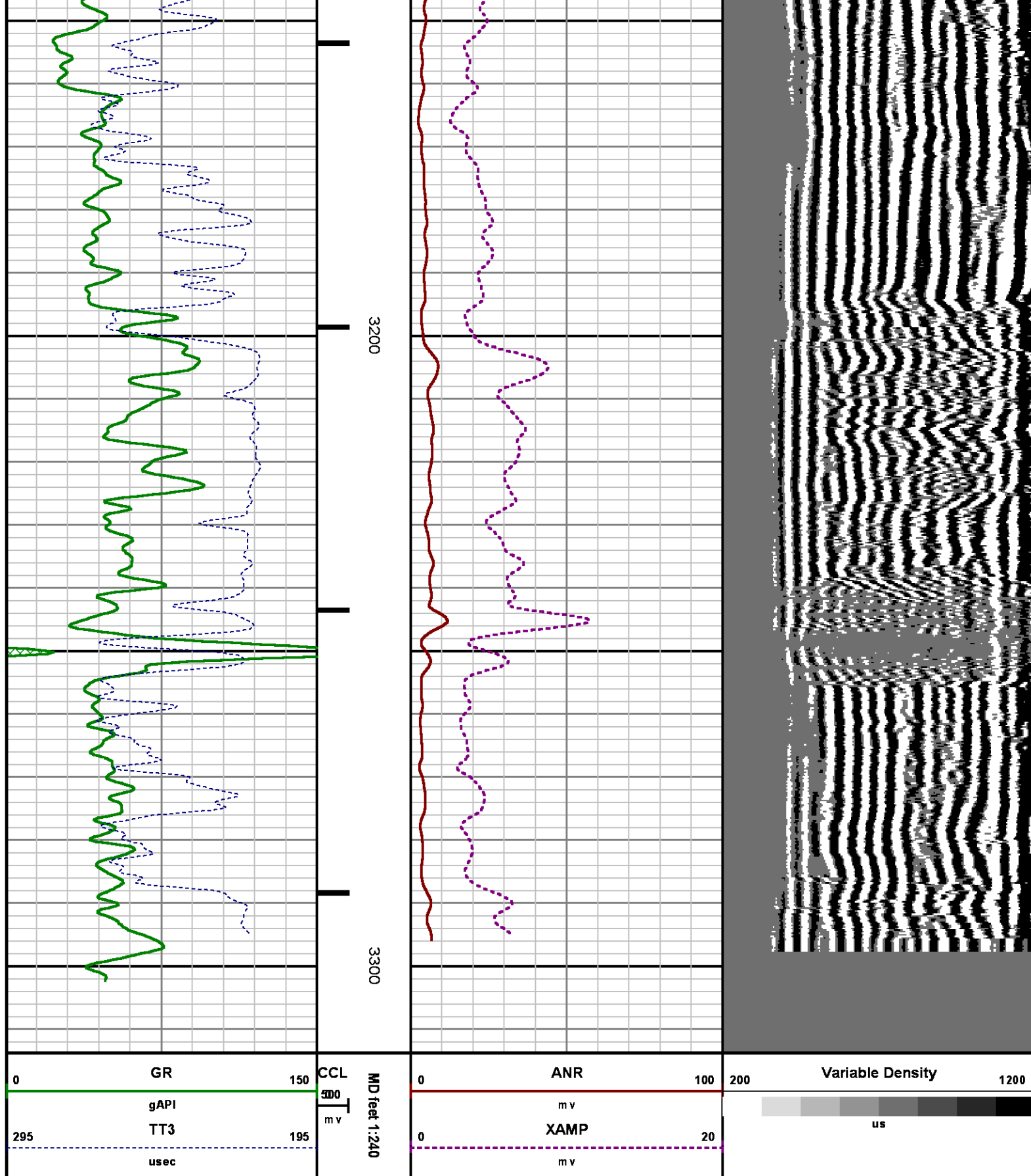
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Mode : PlotMgr 5.4.504

Interval : 3085.81 - 3313.81 feet UP

Created : 6/10/2014 4:59:47 PM





CALIBRATION SUMMARY

RALSHP

Shop Calibration: C:\case\calver\RALSHP\496J10_shp.cal

SHOP CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 10 10:17:32 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: J10

Tool Delay [usec] Tank OD Tank Wt Tank ID

| RECEIVER | Travel Time [usec] | Amp. Gate Start [usec] | Amp. Gate Width [usec] | Zero Gate Start [usec] | Zero Gate Width [usec] | Zero Amp. [mV] | Amp Ref. [mV] | Shop Factor |
|----------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|------------------------------------|-------------------------------------|-----------------------------------|
| CAL Pulse | <input type="text" value="217"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="0.242"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| 3 Ft. Receiver | <input type="text" value="217"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.565"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| 5 Ft. Receiver | <input type="text" value="326"/> | <input type="text" value="325"/> | <input type="text" value="30"/> | <input type="text" value="236"/> | <input type="text" value="25"/> | <input type="text" value="0.341"/> | <input type="text" value="150.00"/> | <input type="text" value="0.36"/> |
| Radial #1 | <input type="text" value="217"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="1.609"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| Radial #2 | <input type="text" value="216"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.218"/> | <input type="text" value="100.00"/> | <input type="text" value="0.31"/> |
| Radial #3 | <input type="text" value="215"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.792"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| Radial #4 | <input type="text" value="215"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.540"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| Radial #5 | <input type="text" value="216"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="1.622"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| Radial #6 | <input type="text" value="217"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.196"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| Radial #7 | <input type="text" value="217"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.090"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |
| Radial #8 | <input type="text" value="219"/> | <input type="text" value="216"/> | <input type="text" value="30"/> | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="2.486"/> | <input type="text" value="100.00"/> | <input type="text" value="0.32"/> |

RALFLD

Wellsite Calibration: C:\case\calver\RALFLD\496J10 fld.cal

WELLSITE CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 10 10:20:56 2014 TOOL SERIES: 1426XA ASSET: 496 SEQ: J10

Tool Delay [usec] Casing OD Casing Wt Casing ID

| RECEIVER | Zero Gate Start [usec] | Zero Gate Width [usec] | Zero Amp. [mV] | Full Amp. [mV] | Wellsite Factor | Amp. Ref [mV] |
|----------------|----------------------------------|---------------------------------|------------------------------------|------------------------------------|-----------------------------------|--------------------------------------|
| CAL Pulse | <input type="text" value="166"/> | <input type="text" value="25"/> | <input type="text" value="0.084"/> | <input type="text" value="0.000"/> | <input type="text" value="1.00"/> | <input type="text" value="100.000"/> |
| 3 Ft. Receiver | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.528"/> | | | |
| 5 Ft. Receiver | <input type="text" value="325"/> | <input type="text" value="25"/> | <input type="text" value="1.366"/> | | | |
| Radial #1 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.009"/> | | | |
| Radial #2 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.092"/> | | | |
| Radial #3 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.298"/> | | | |
| Radial #4 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.312"/> | | | |
| Radial #5 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.379"/> | | | |
| Radial #6 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.551"/> | | | |
| Radial #7 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.205"/> | | | |
| Radial #8 | <input type="text" value="215"/> | <input type="text" value="25"/> | <input type="text" value="1.178"/> | | | |

GAMMA RAY

Calibration File: C:\case\calver\GR\456J1.cal

CALIBRATION SUMMARY

DATE/TIME PERFORMED: Tue Jun 10 11:37:19 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: J1

| Calibrator # | Background [cps] | Calibrator On [cps] | Multiplicative | Background [api] | Calibrator On [api] | Differential [api] |
|--------------|---------------------|------------------------|----------------|---------------------|------------------------|-----------------------|
| S2K WA612 | 93.20 | 369.51 | 0.670 | 62.40 | 247.40 | 185.00 |

Verification File: C:\case\calver\GR\456J1.VP

PRIMARY LOG VERIFICATION

DATE/TIME PERFORMED: Tue Jun 10 11:38:30 2014 TOOL SERIES: 2459XA ASSET: 456 SEQ: J1

| Calibrator # | Background [cps] | Calibrator On [cps] | Multiplicative | Background [api] | Calibrator On [api] | Differential [api] |
|--------------|---------------------|------------------------|----------------|---------------------|------------------------|-----------------------|
| S2K WA612 | 101.16 | 371.24 | 0.670 | 67.73 | 248.56 | 180.83 |

TOOL DIAGRAM

OTA SHORT CABLE HEAD

PROBE 2 3/4 DUAL RECEIVER RADII

| | |
|---------------|-----------------|
| Series | 1426XA |
| Mnemonic | PROB |
| Diameter | 2.75" |
| Length | 11.17' |
| Measure Point | 0.75' FAR RCVR |
| Measure Point | 2.67' NEAR RCVR |
| Measure Point | 5.75' XMIT |
| Temp Rating | 350.00 °F |
| Press Rating | 18000.00 PSI |

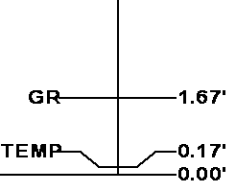
RAL GR/TEMP/CCL/CHV DETECTOR

| | |
|-------------|-----------|
| Series | 1355XA |
| Mnemonic | RAL |
| Diameter | 2.75" |
| Weight | 85.00 lb |
| Temp Rating | 300.00 °F |



| | |
|-----------|--------|
| | 18.89' |
| XMIT | 12.71' |
| NEAR RCVR | 9.63' |
| FAR RCVR | 7.71' |
| CCL | 5.79' |

| | |
|---------------|--------------|
| Length | 6.96' |
| Measure Point | 0.17' TEMP |
| Measure Point | 1.67' GR |
| Measure Point | 5.79' CCL |
| Temp Rating | 400.00 °F |
| Press Rating | 20000.00 PSI |



Total Length: 18.89'
Total Weight: Not Available
Max Diameter: 0' 2.75"



Baker Atlas



| | | | |
|----------------|---------------------|--------------|----------|
| Company | SAMSON RESOURCES CO | | |
| Well | COLORADO 32-7 #10-3 | | |
| Field | IGNACIO BLANCO | | |
| County | LA PLATA | State | COLORADO |

| |
|-----------------|
| File No: |
| CH085066 |
| API No: |
| 05067098780000 |

| | |
|----------------------------|-------------------|
| Location | Elevations |
| LAT: 37.05076 | KB 6296 ft |
| LONG: -107.61847 | DF |
| SHL: 1450' FNL & 1680' FWL | GL 6284 ft |
| SEC 4 TWP 32N RGE 7W | |

LEASE# 039110