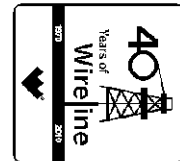




Weatherford

**COMPACT WELL SHUTTLE
COMPACT ARRAY INDUCTION
LOG**

COMPANY CMX INC.
WELL SOCRATES 1H
FIELD WHERRY
PROVINCE/COUNTY RICE
COUNTRY/STATE U.S.A. / KANSAS
LOCATION 2490' FNL & 1320' FEL
S2 S2 S2 NE



SEC TWP RGE Other Services
10 21S 7W MDN/MPP
API Number 15159226670100 CMI
Permit Number
Permanent Datum G.L., Elevation 1602 feet
Log Measured From D.F. 12 FEET above Permanent Datum
Drilling Measured From D.F.

Elevations:
KB 1614.00
DF 1614.00
GL 1602.00

| | |
|-------------------------------|---------------------|
| Date | 20-JAN-2012 |
| Run Number | 1 |
| Depth Driller | 7950.00 feet |
| Depth Logger | 7828.00 feet |
| First Reading | 7822.00 feet |
| Last Reading | 3749.00 feet |
| Casing Driller | 3749.00 feet |
| Casing Logger | 3749.00 feet |
| Bit Size | 6.125 inches |
| Hole Fluid Type | WATER BASED |
| Density / Viscosity | 8.40 g/c3 30.00 CP |
| PH / Fluid Loss | 8.00 88.00 ml/30Min |
| Sample Source | FLOWLINE |
| Rm @ Measured Temp | 1.34 @ 76.0 ohm-m |
| Rmf @ Measured Temp | 1.07 @ 76.0 ohm-m |
| Rmc @ Measured Temp | 1.60 @ 76.0 ohm-m |
| Source Rmf / Rmc | CALC CALC |
| Rm @ BHT | 0.96 @ 106.0 ohm-m |
| Time Since Circulation | .5 HOUR |
| Max Recorded Temp | 106.00 deg F |
| Equipment Name | COMPACT |
| Equipment / Base | 18064 OKC |
| Recorded By | C. GRIFFIN |
| Witnessed By | L. KASTEN |
| S.O. # | 3534193 |

BOREHOLE RECORD

Last Edited: 20-JAN-2012 04:34

| | | |
|---------------------------|---------------------------|-------------------------|
| Bit Size inches | Depth From feet | Depth To feet |
| 6.125 | 3749.00 | 7950.00 |

CASING RECORD

| | | | | |
|-------------|-----------------------|---------------------------|---------------------------|----------------------------|
| Type | Size inches | Depth From feet | Shoe Depth feet | Weight pounds/ft |
| INTERMED | 7.000 | 0.00 | 3749.00 | 26.00 |

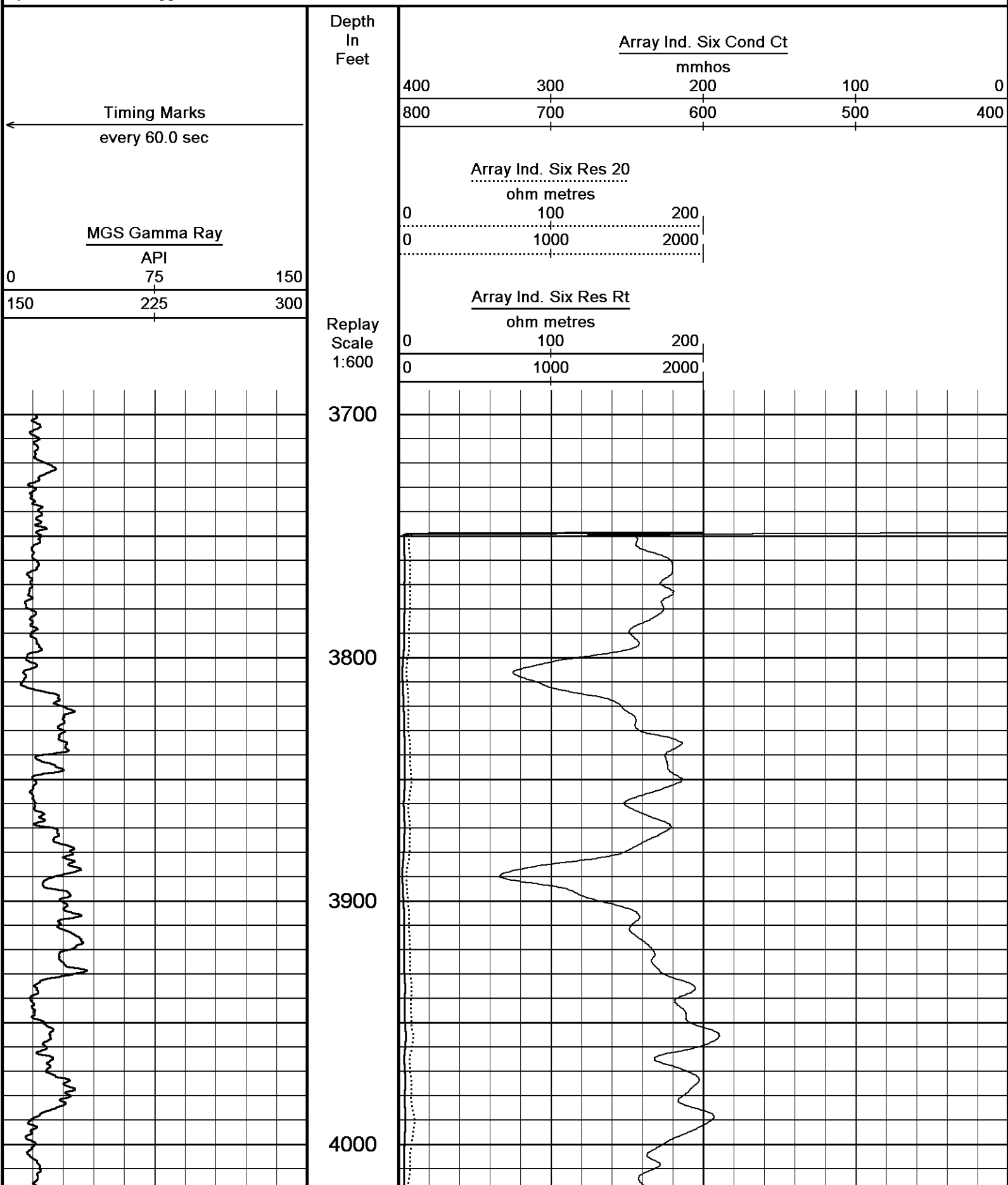
REMARKS

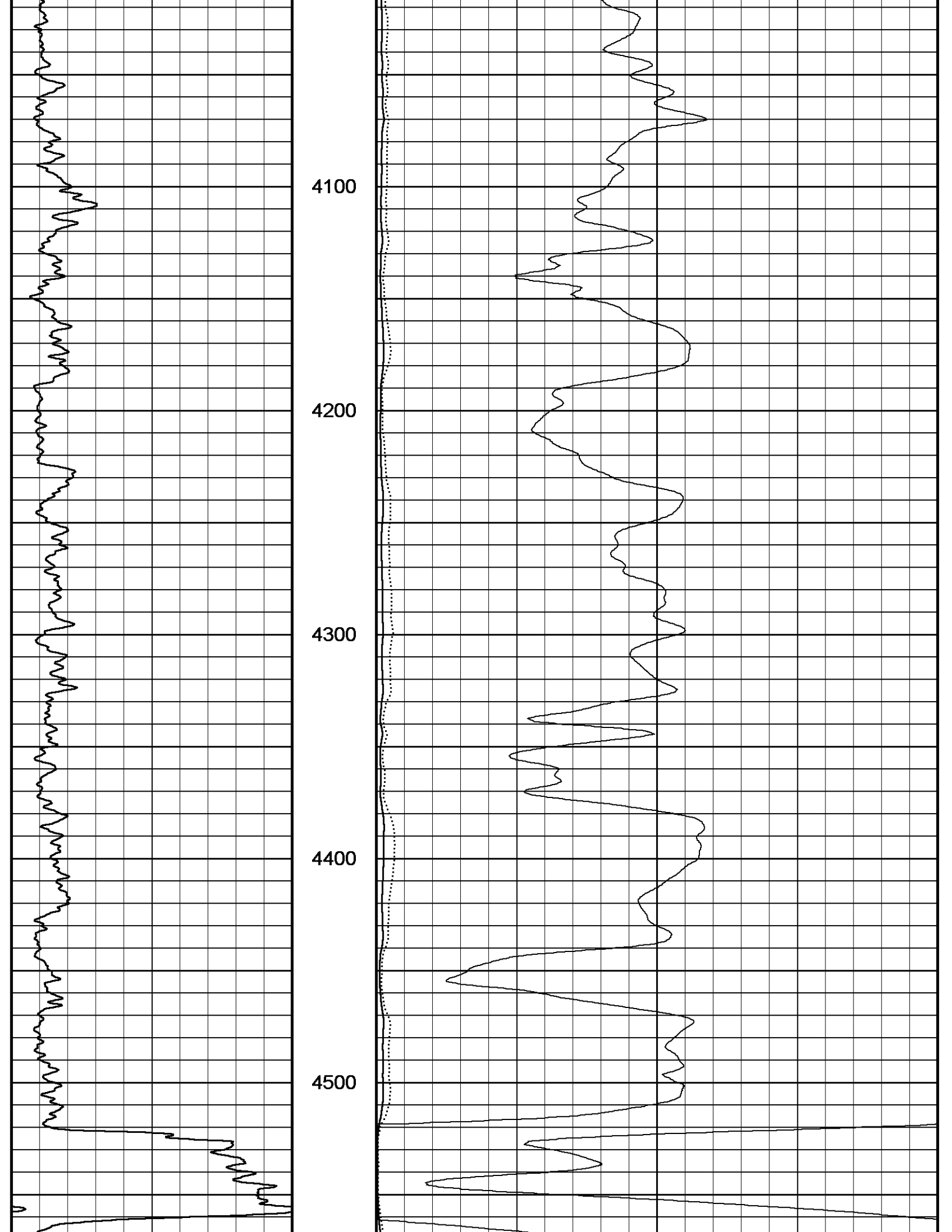
WLS SOFTWARE VERSION 11.02. USED.
 TOOLS RUN ON DRILLPIPE USING COMPACT WELL SHUTTLE DEPLOYMENT TECHNIQUE.
 DEPTH MEASURED USING ADVANTAGE RIG DEPTH CORRECTED TO PIPE TALLY.
 TOOLS DEPLOYED WITH MULE SHOE SITTING AT 7727 FT.
 AFTER DEPLOYMENT LOGGING TOOL WAS AT 7828 FT.
 4.5 " PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUMES.
 OPERATORS: S. WORLEY, D. TURNER
 S.O. # 3534193
 RIG: DUKE RIG 20

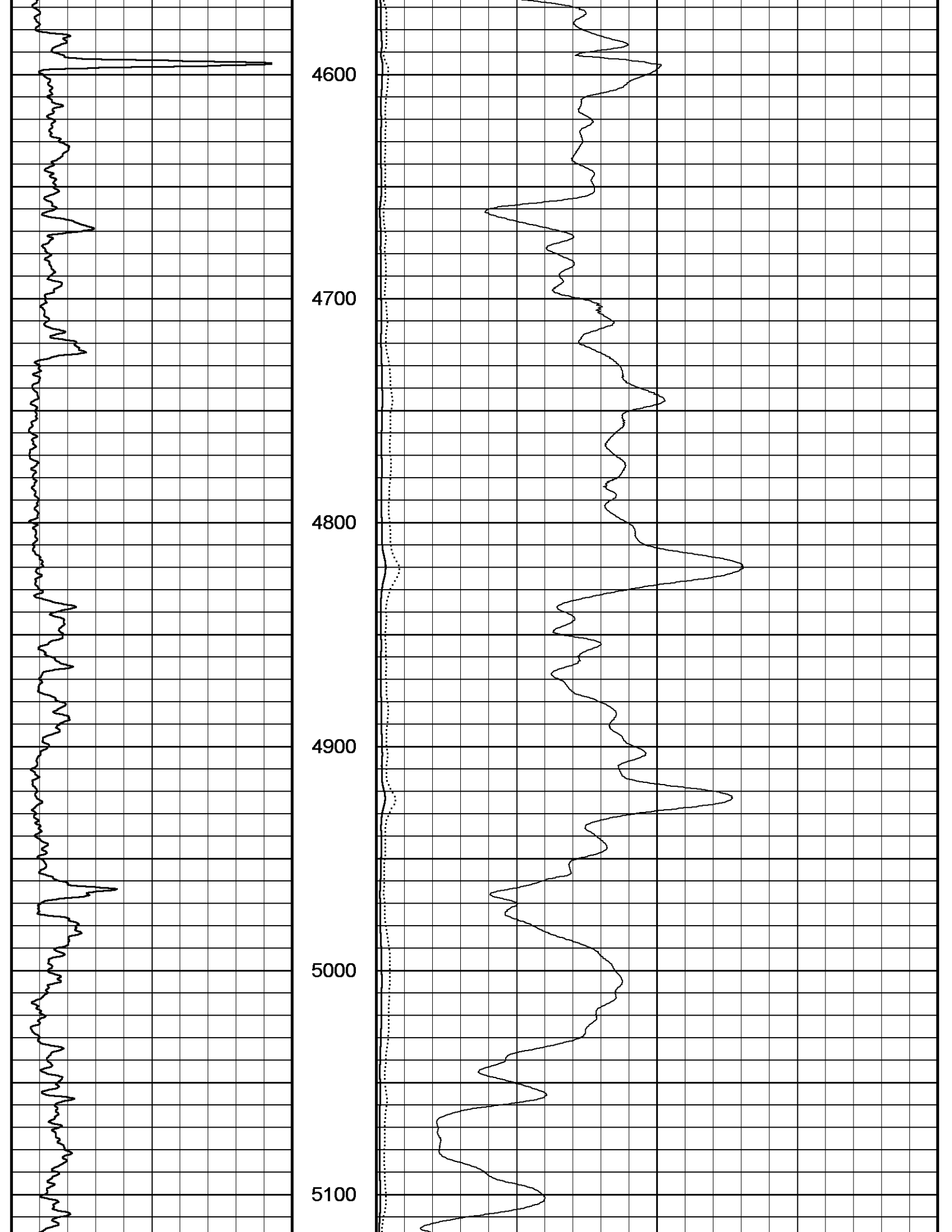
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or wilful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or

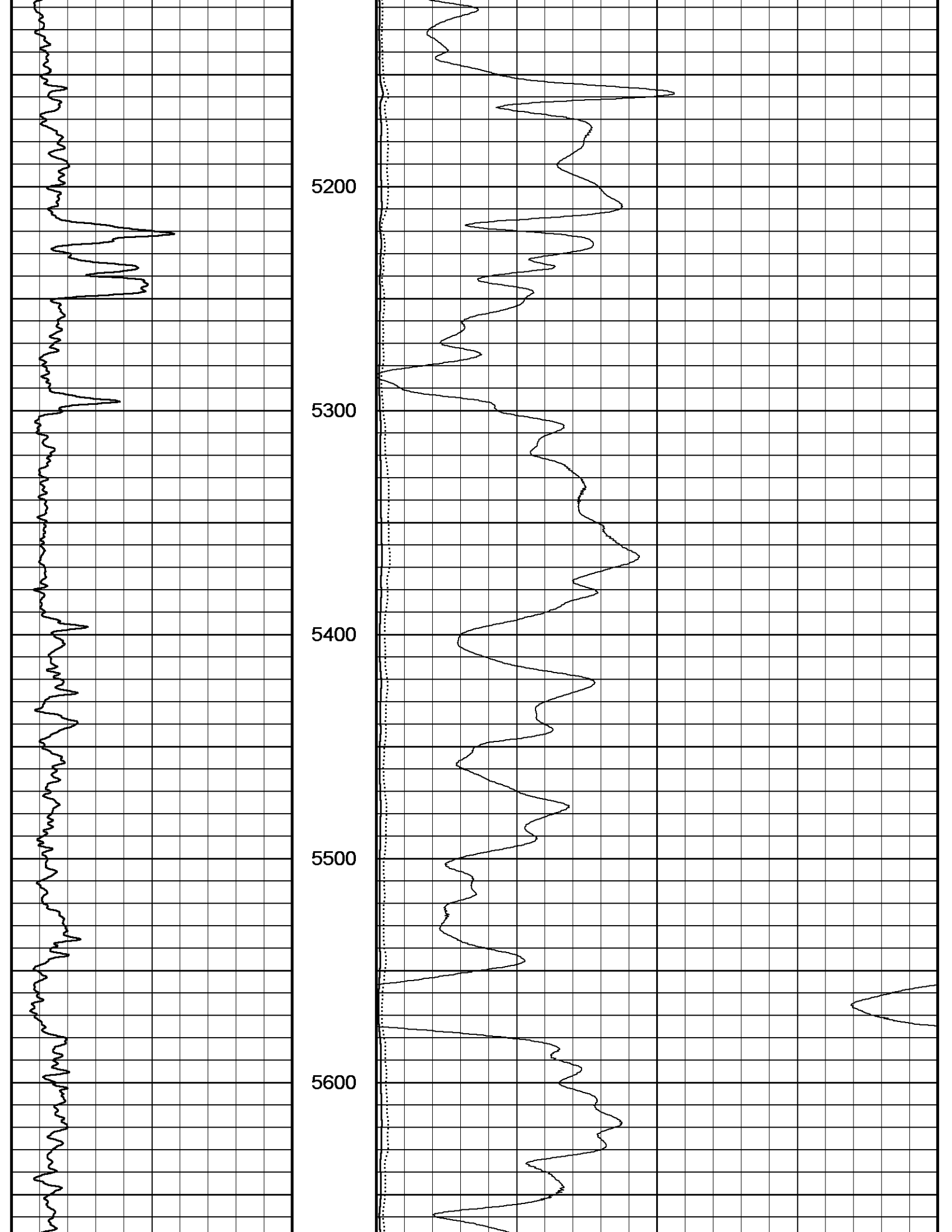
DSC

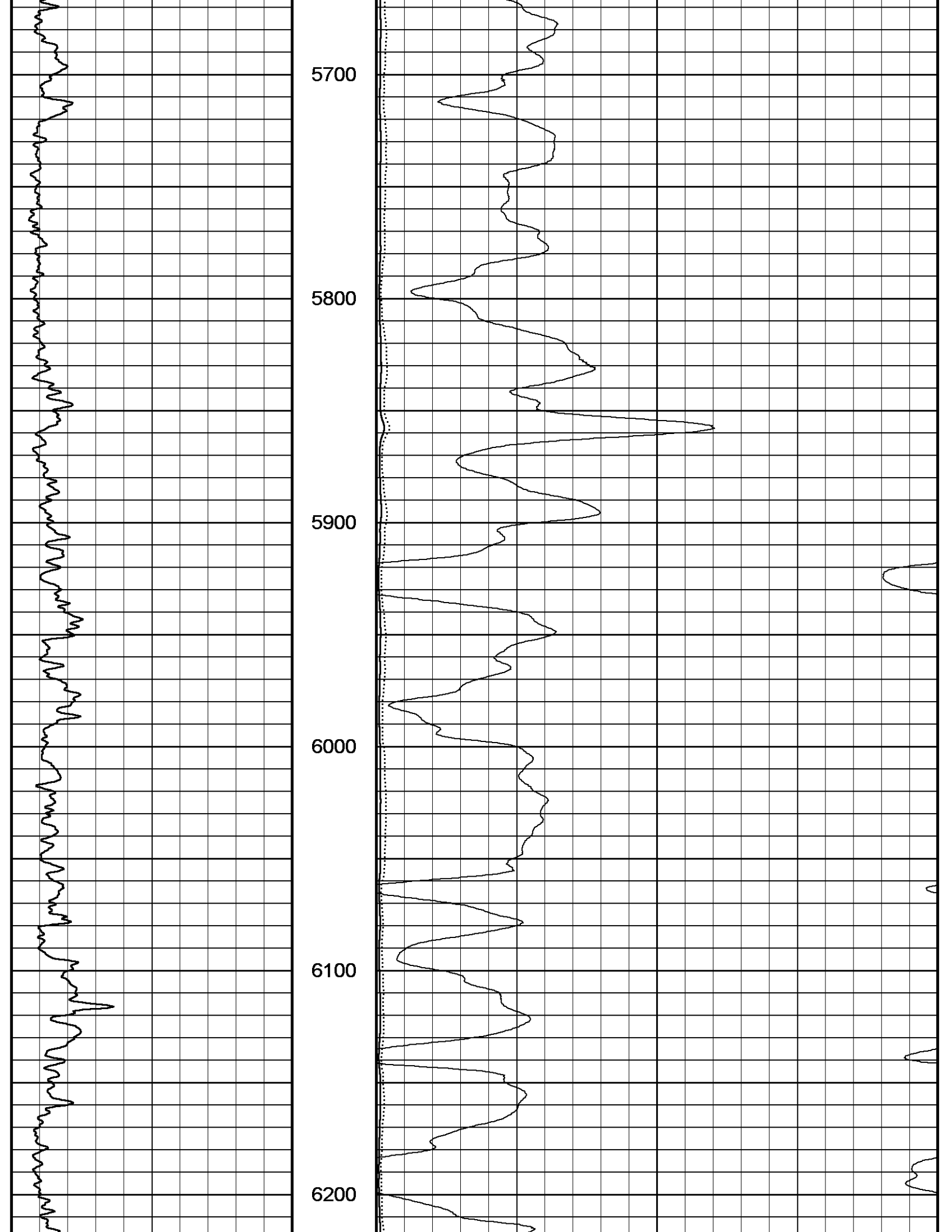
Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Data\CMX\CMX Socrates 1\MMS166 Depthlog.dta
 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186
 Plotted on 20-JAN-2012 04:56
 Recorded on 20-JAN-2012 03:46

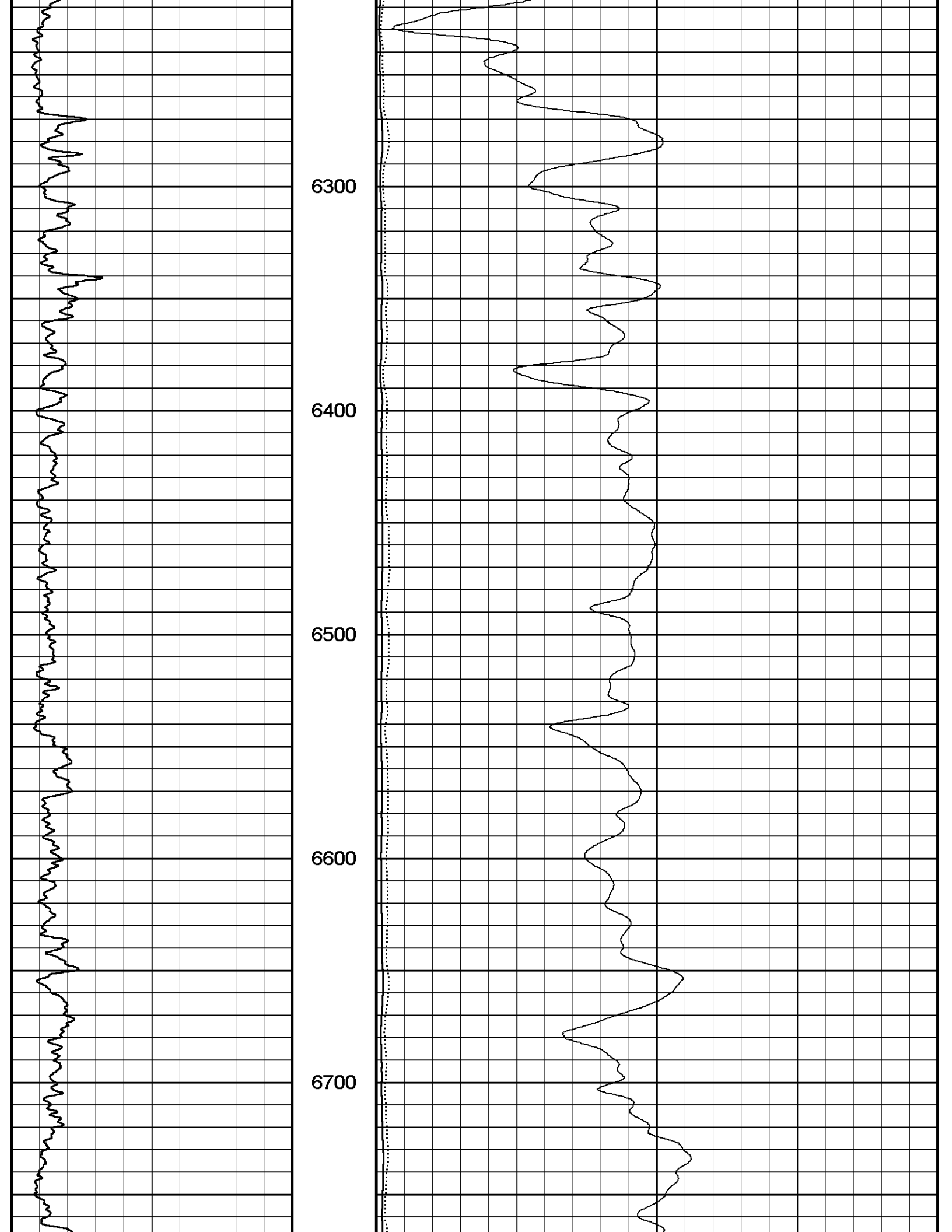


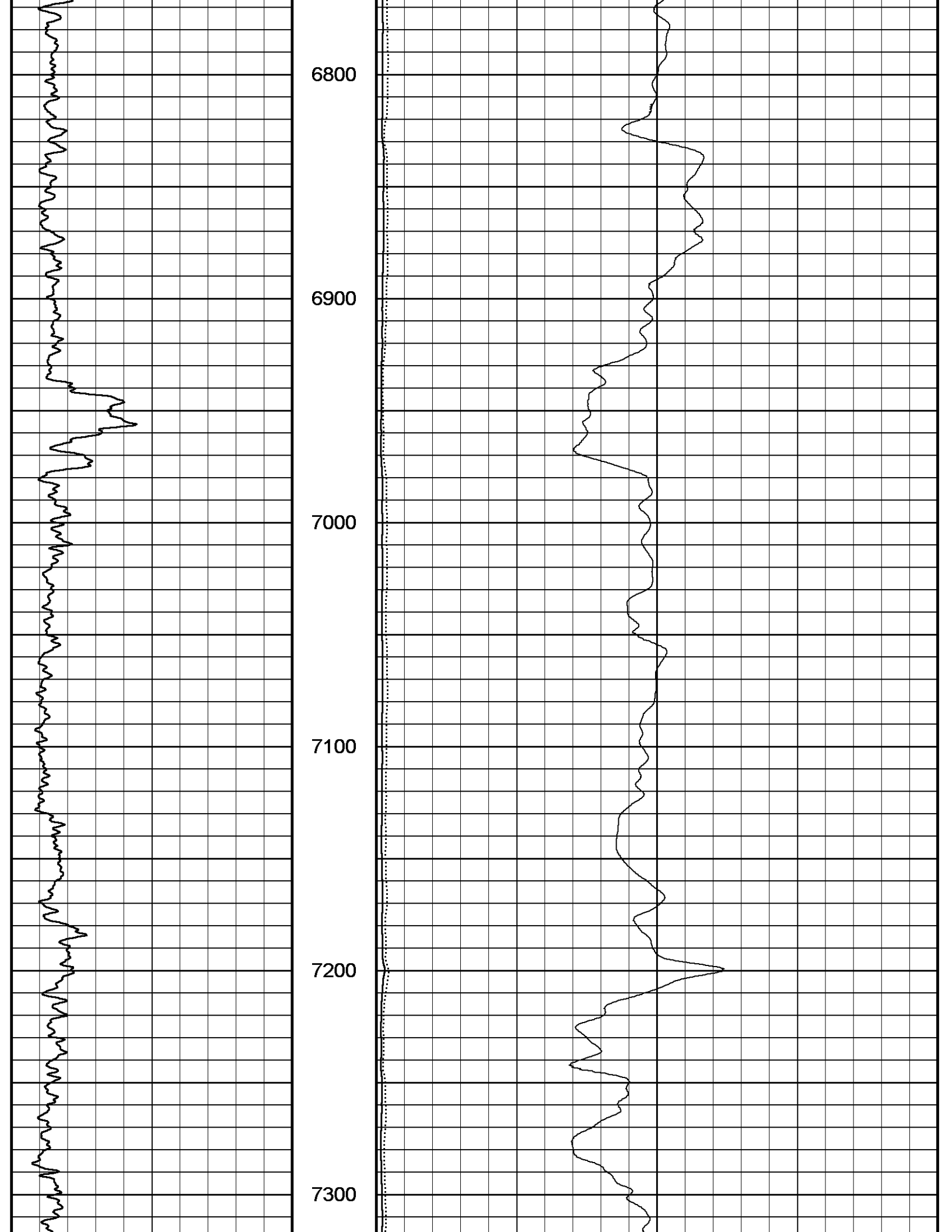


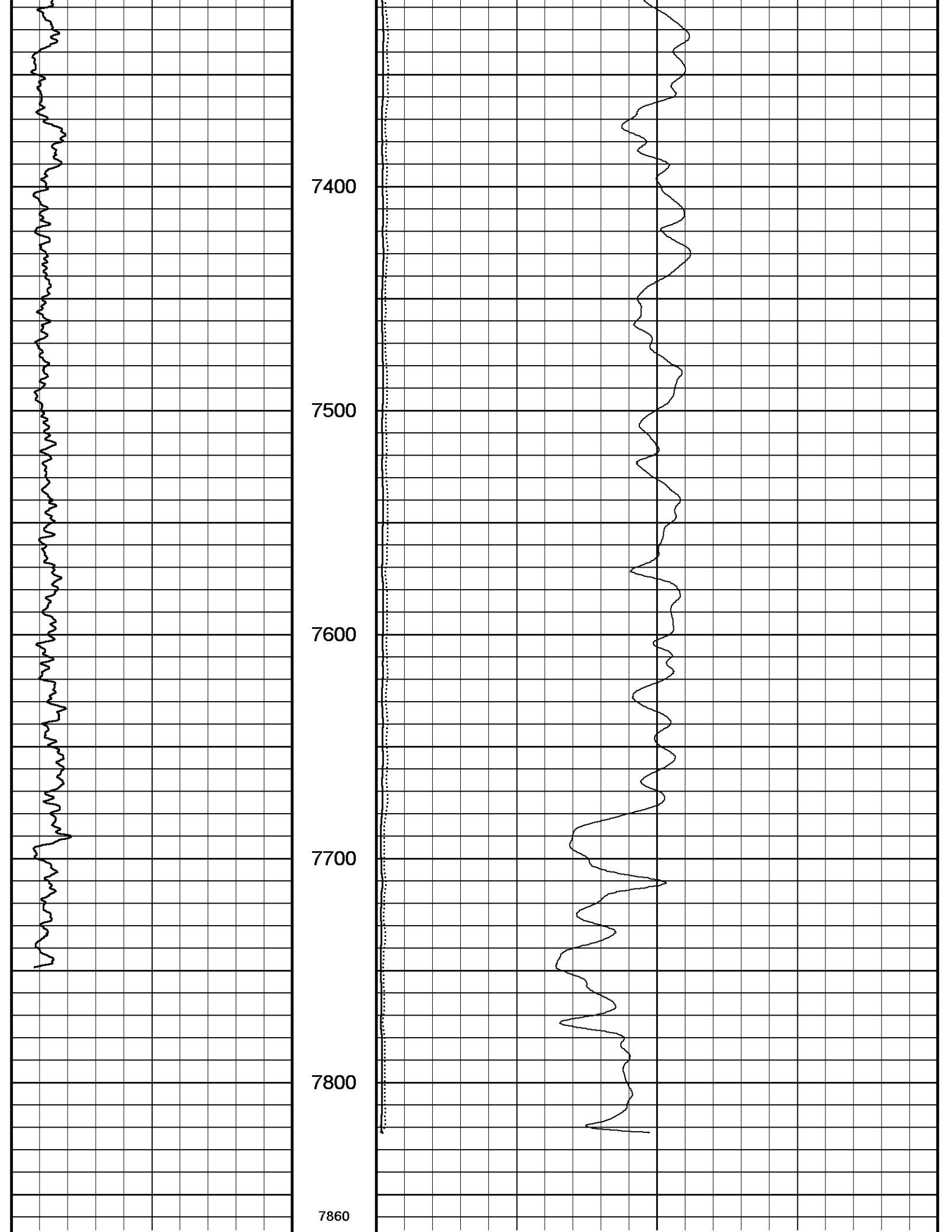


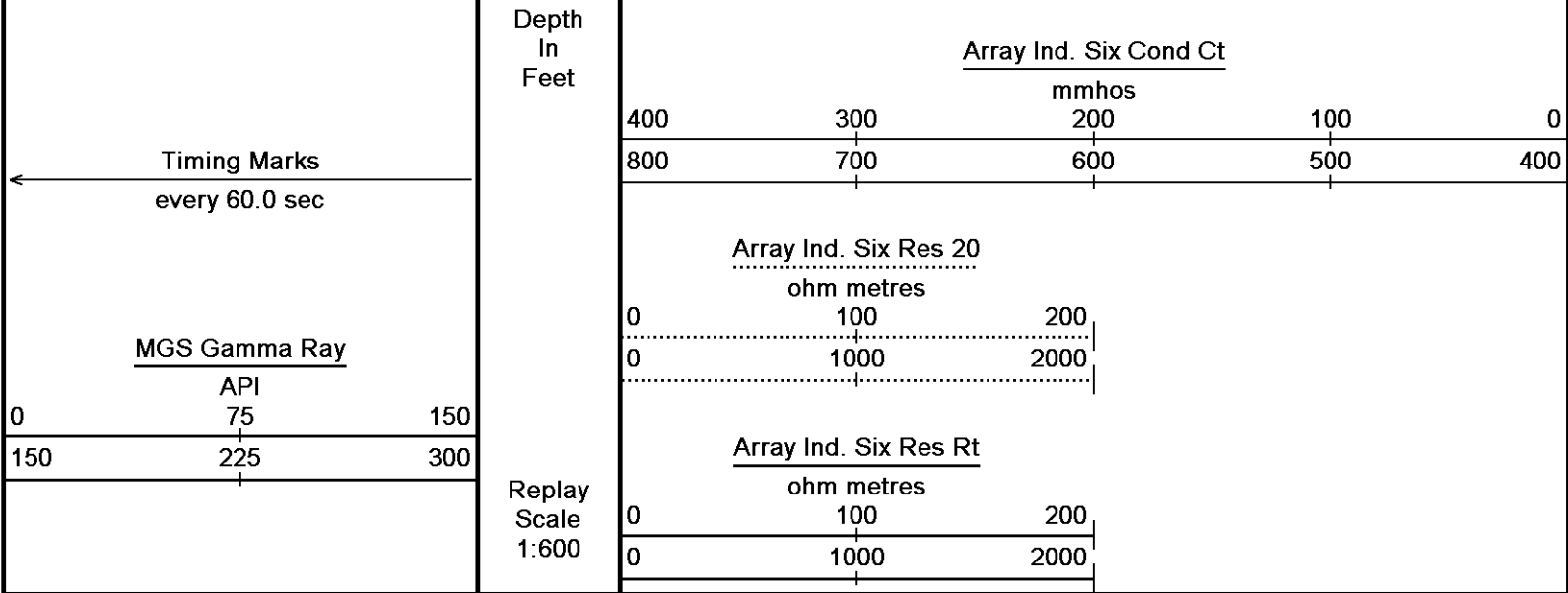










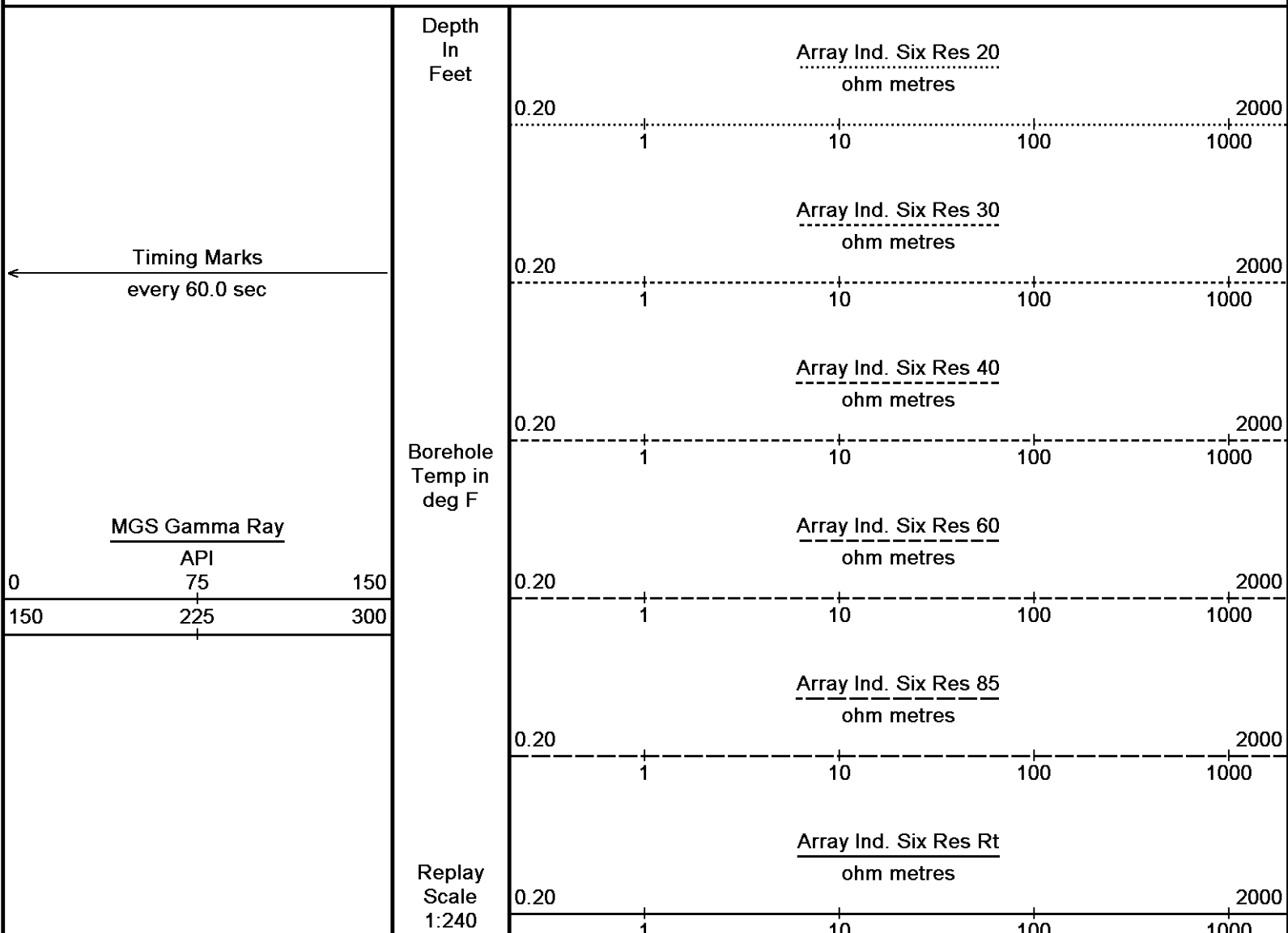


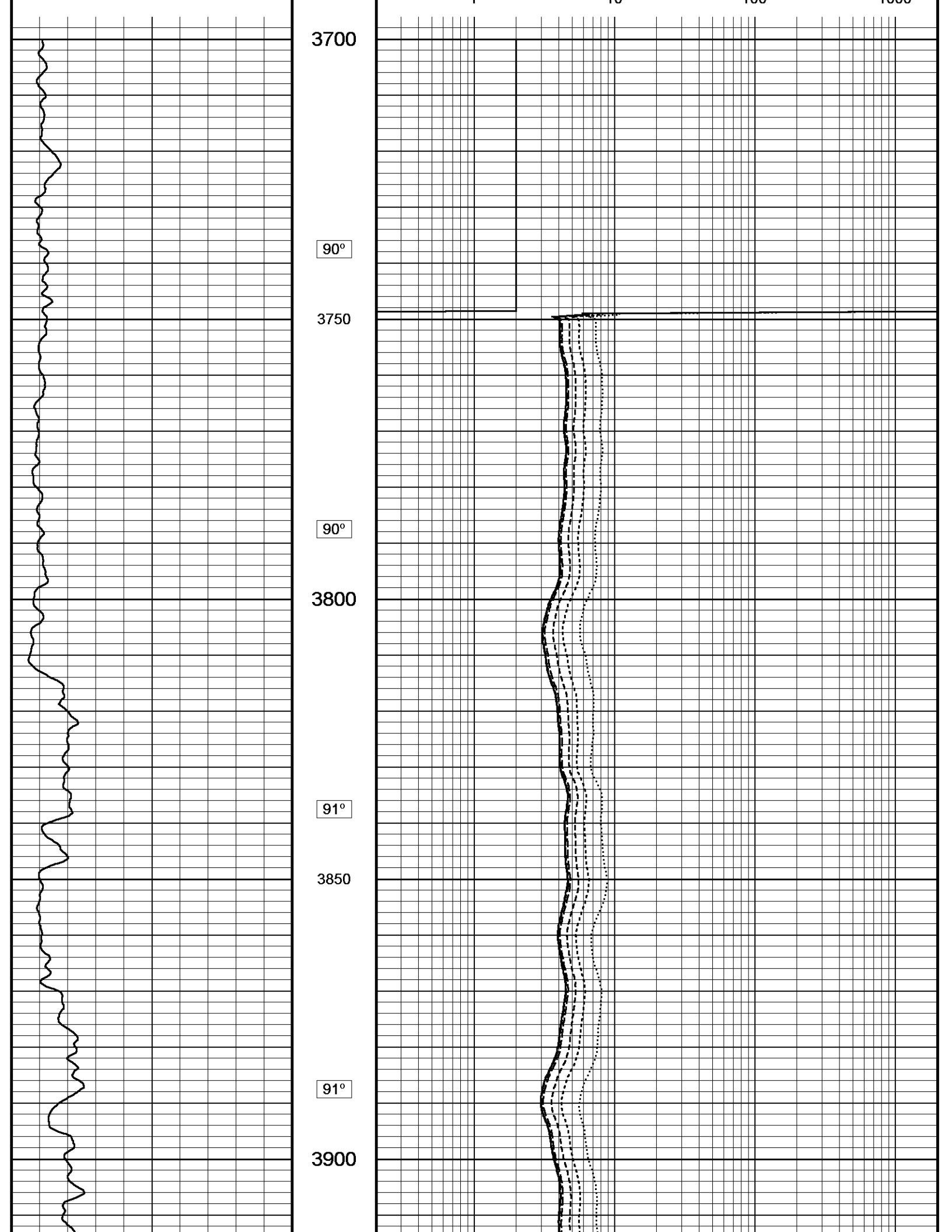
DSC

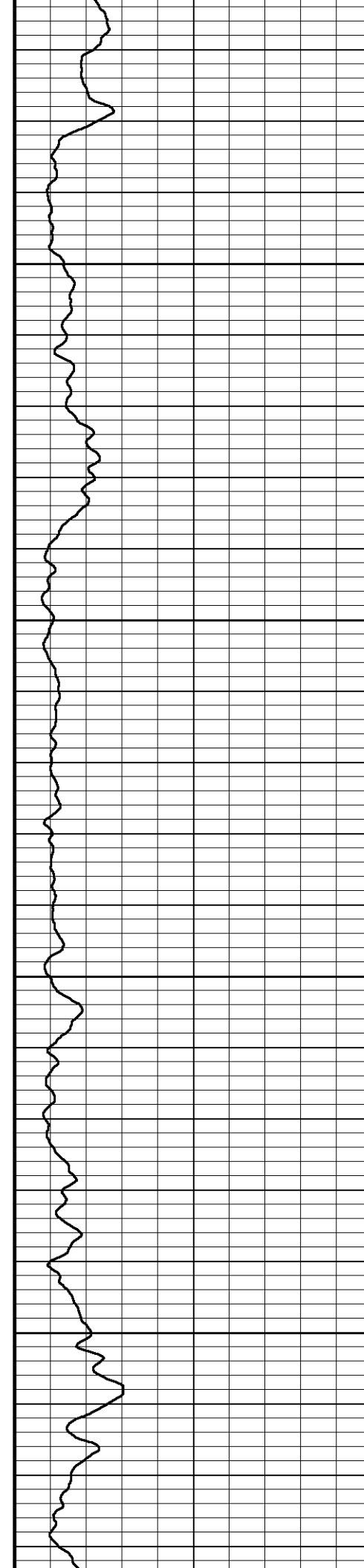
Plotted on 20-JAN-2012 04:56
Recorded on 20-JAN-2012 03:46

DSC

Plotted on 20-JAN-2012 04:56
Recorded on 20-JAN-2012 03:46







92°

3950

93°

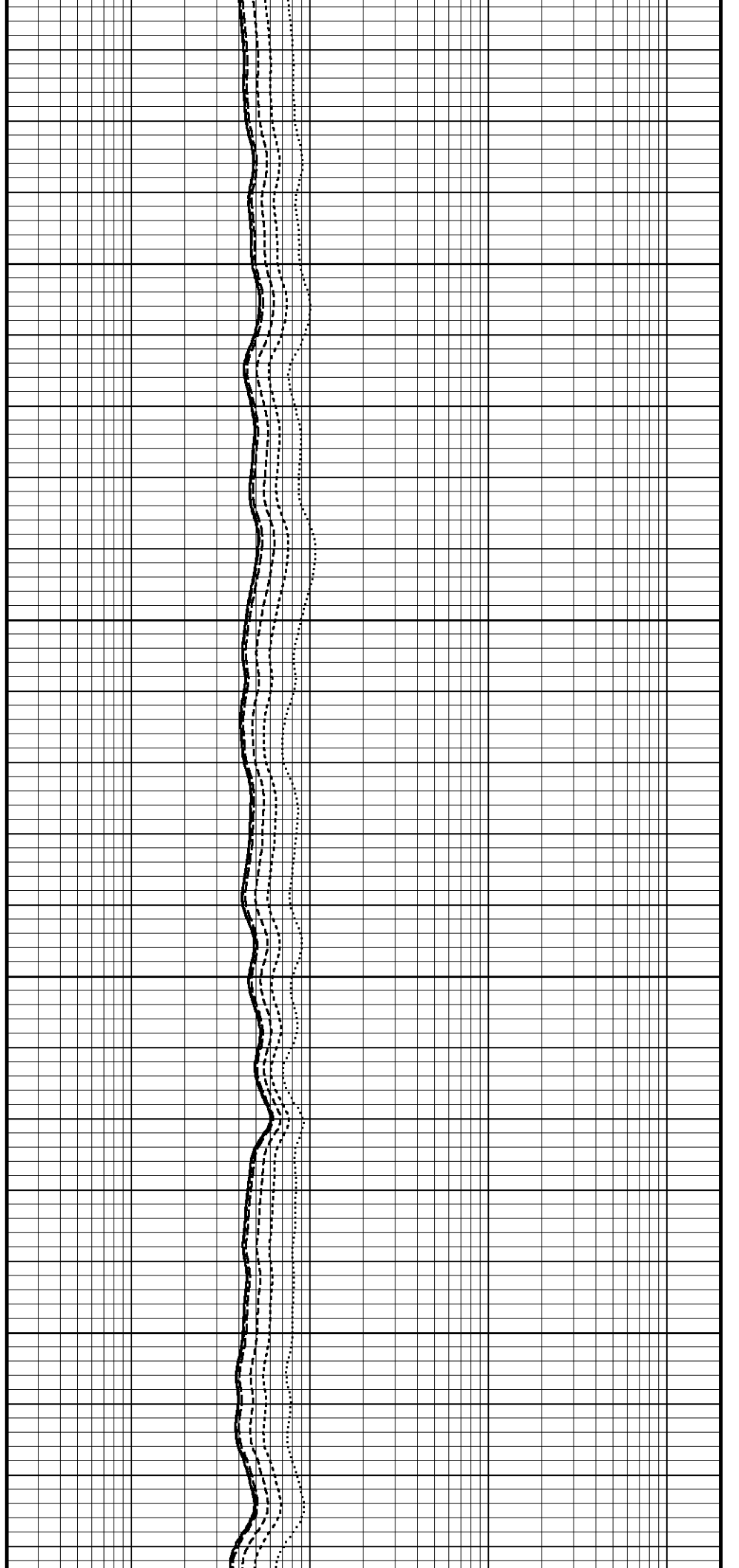
4000

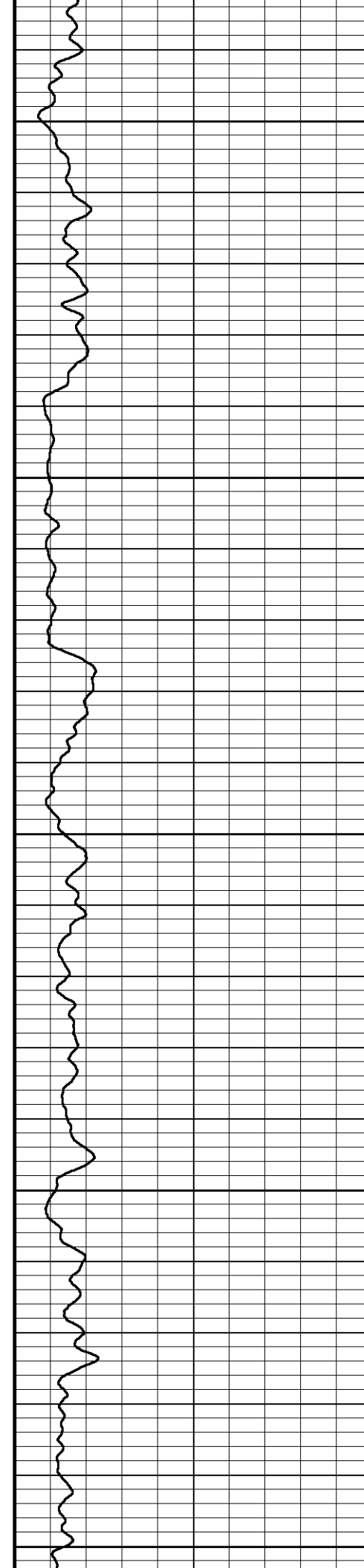
93°

4050

94°

4100





94°

4150

94°

4200

95°

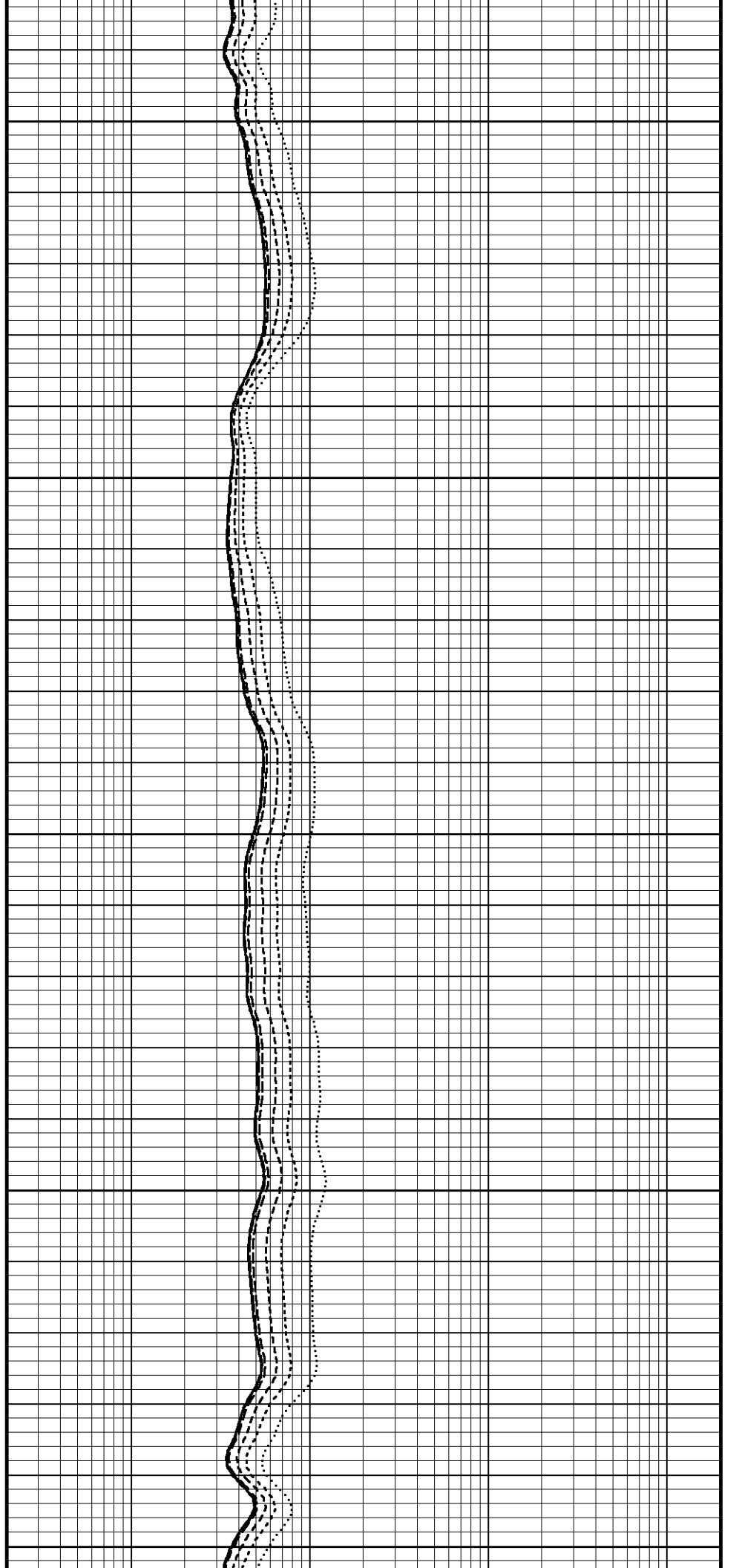
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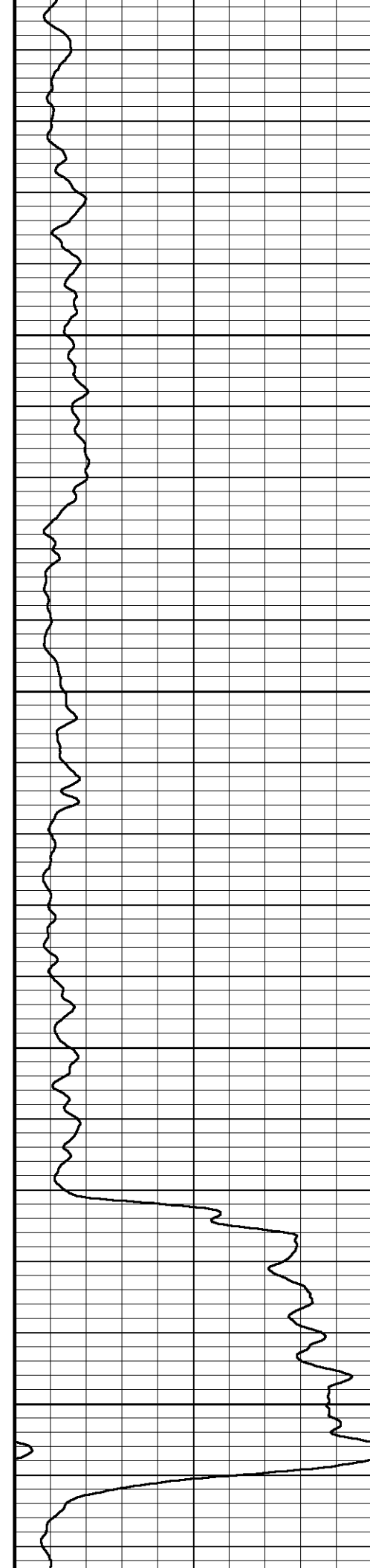
95°

4300

96°

4350





96°

4400

96°

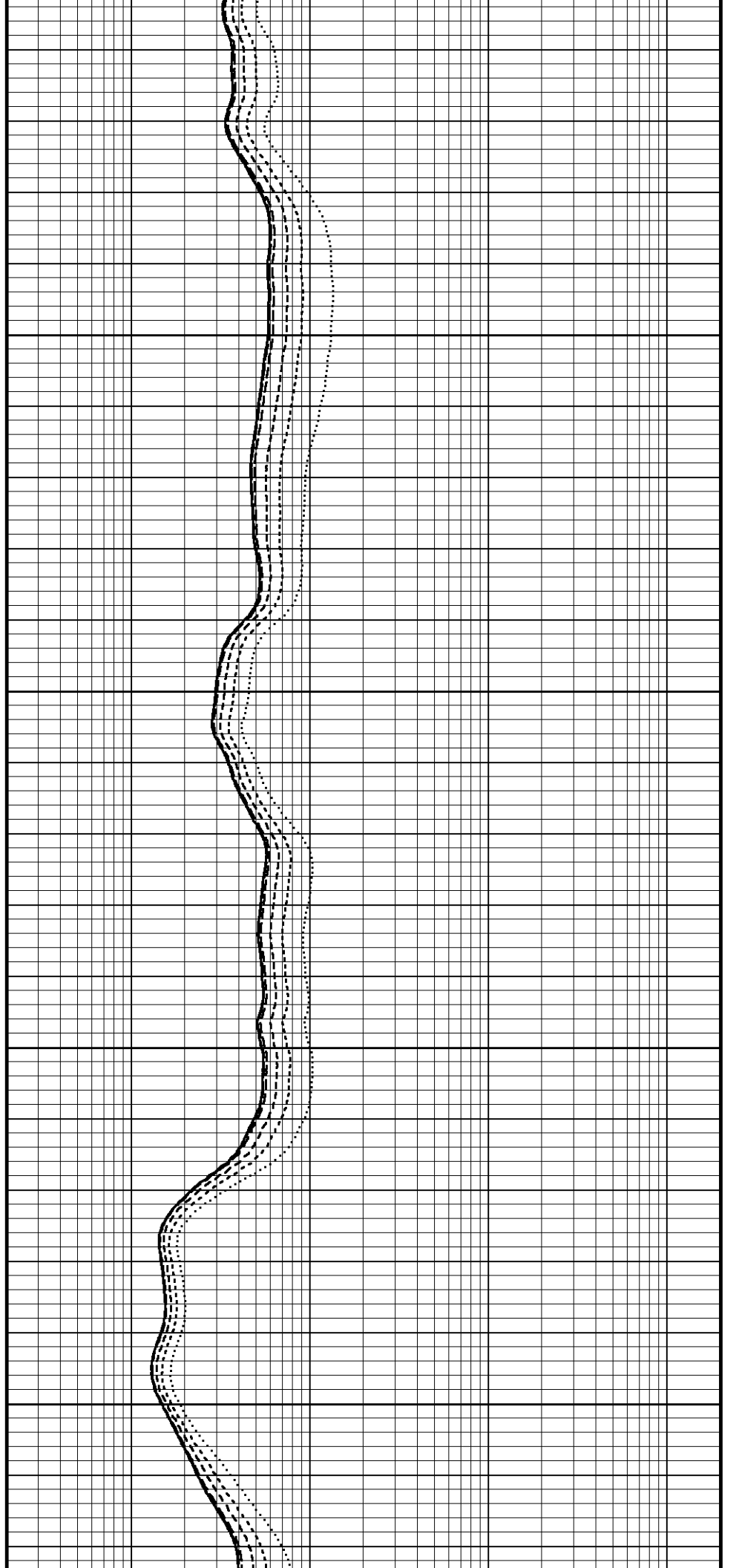
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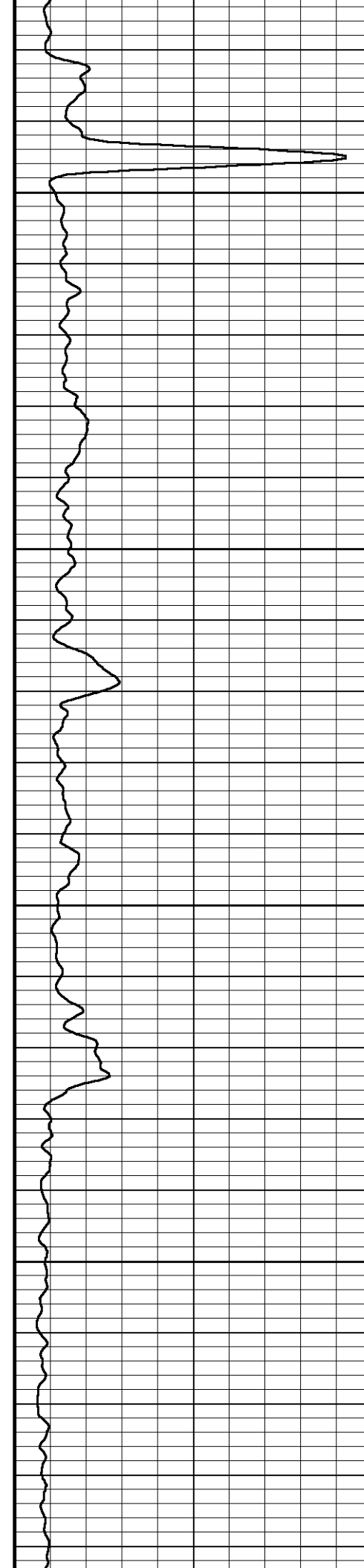
97°

4500

97°

4550





97°

4600

97°

4650

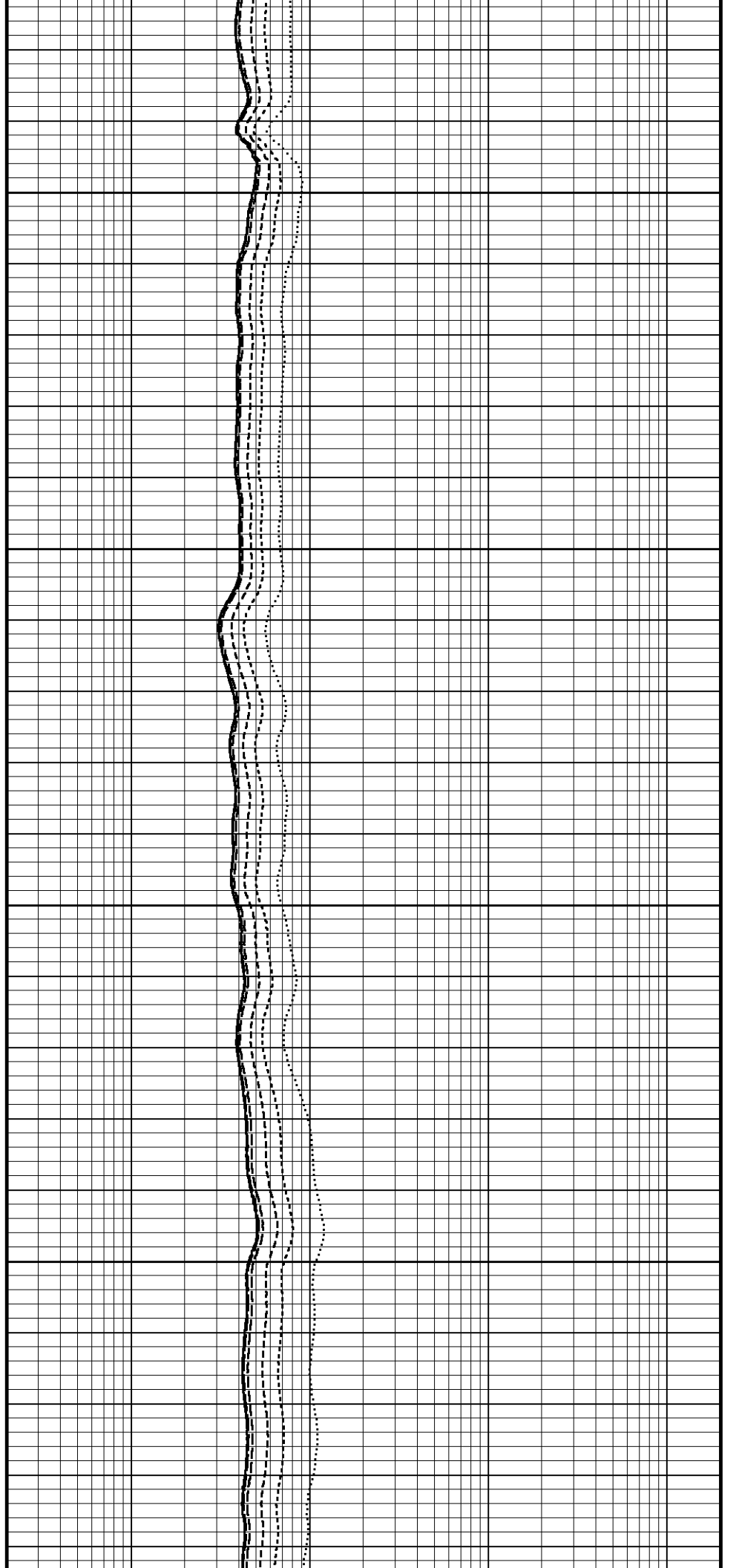
98°

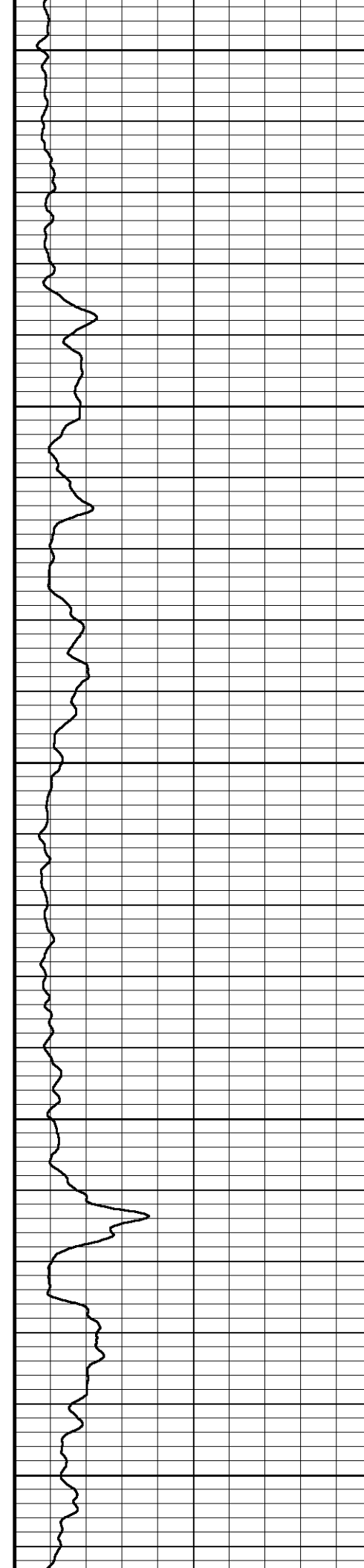
4700

98°

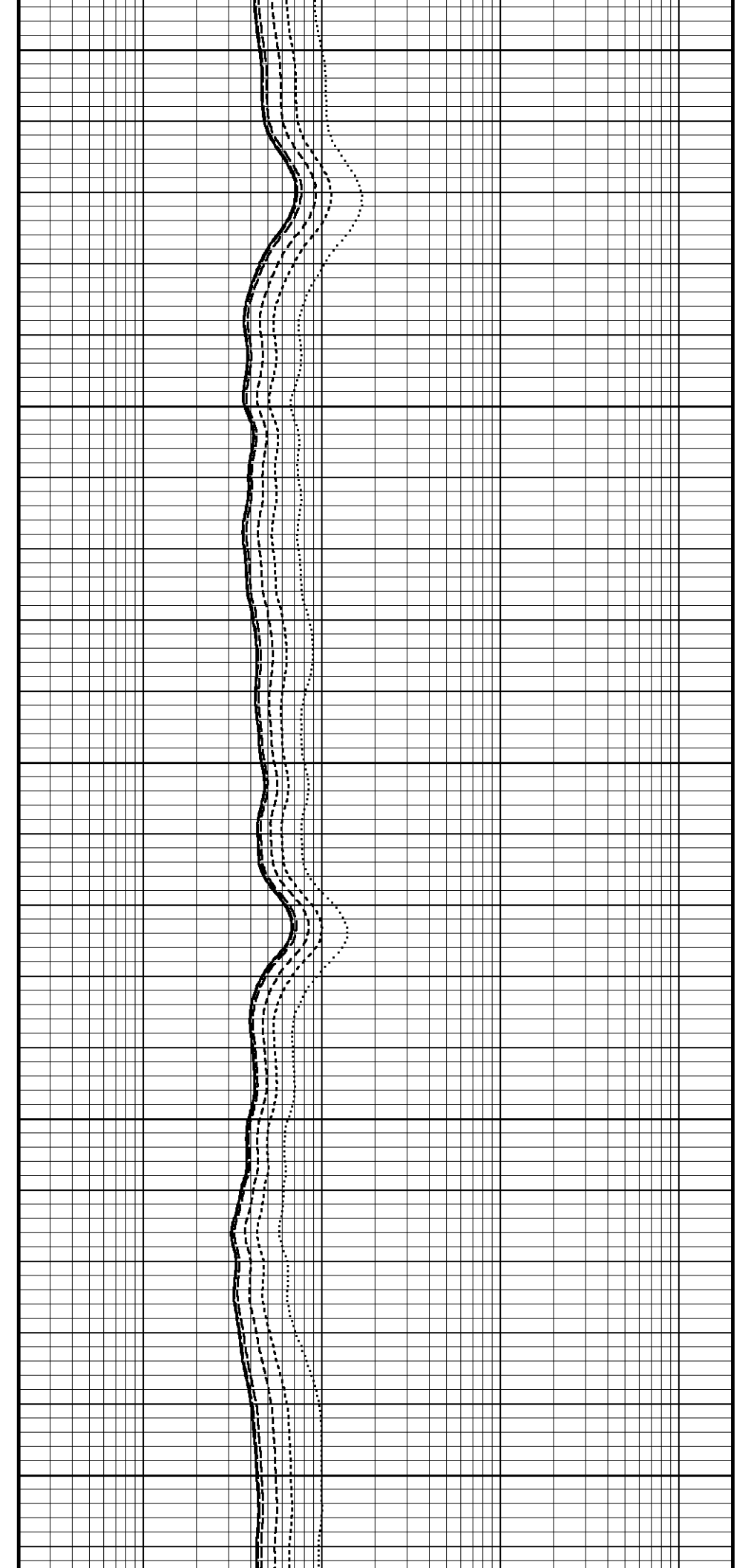
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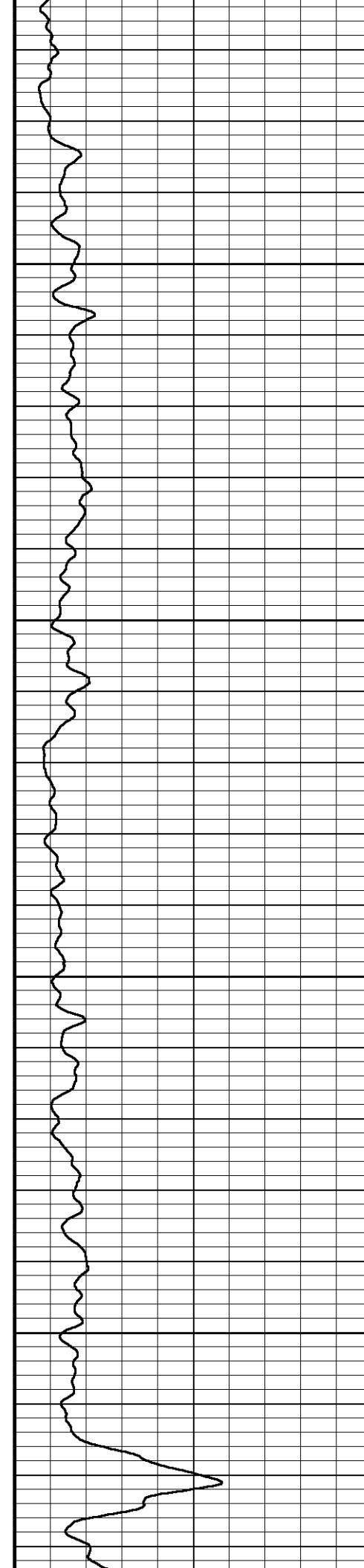
98°





4800
99°
4850
99°
4900
99°
4950
100°
5000





100°

5050

100°

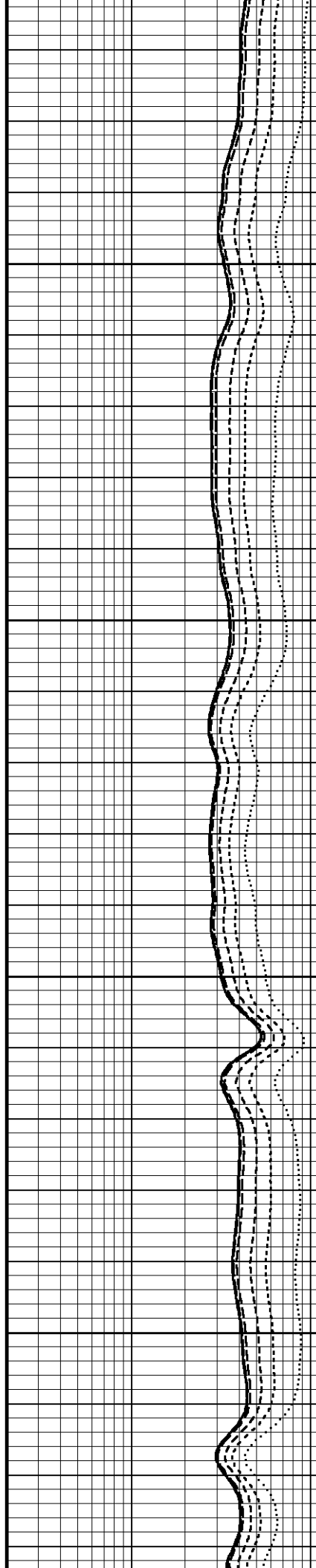
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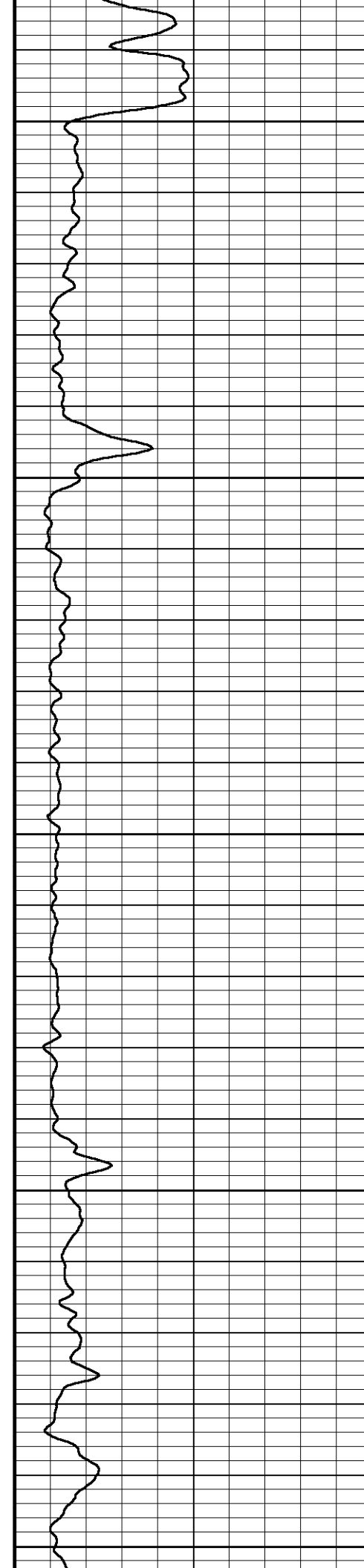
100°

5150

101°

5200





101°

5250

101°

5300

101°

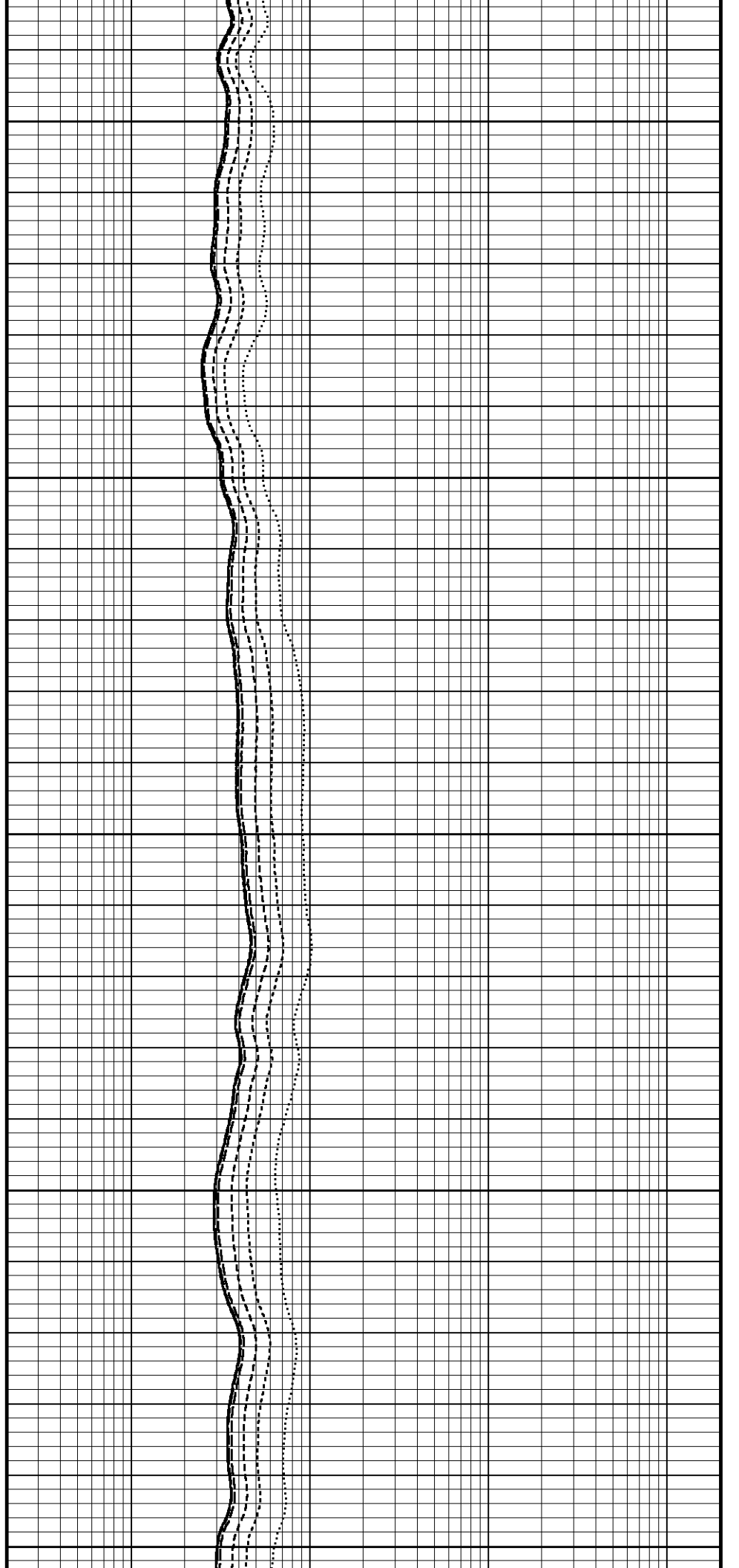
5350

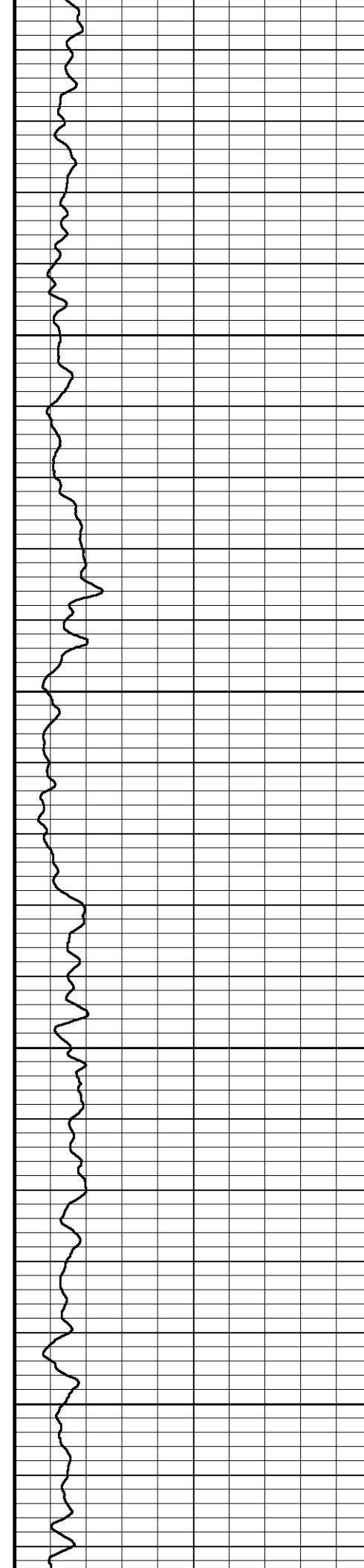
102°

5400

102°

5450





102°

5500

102°

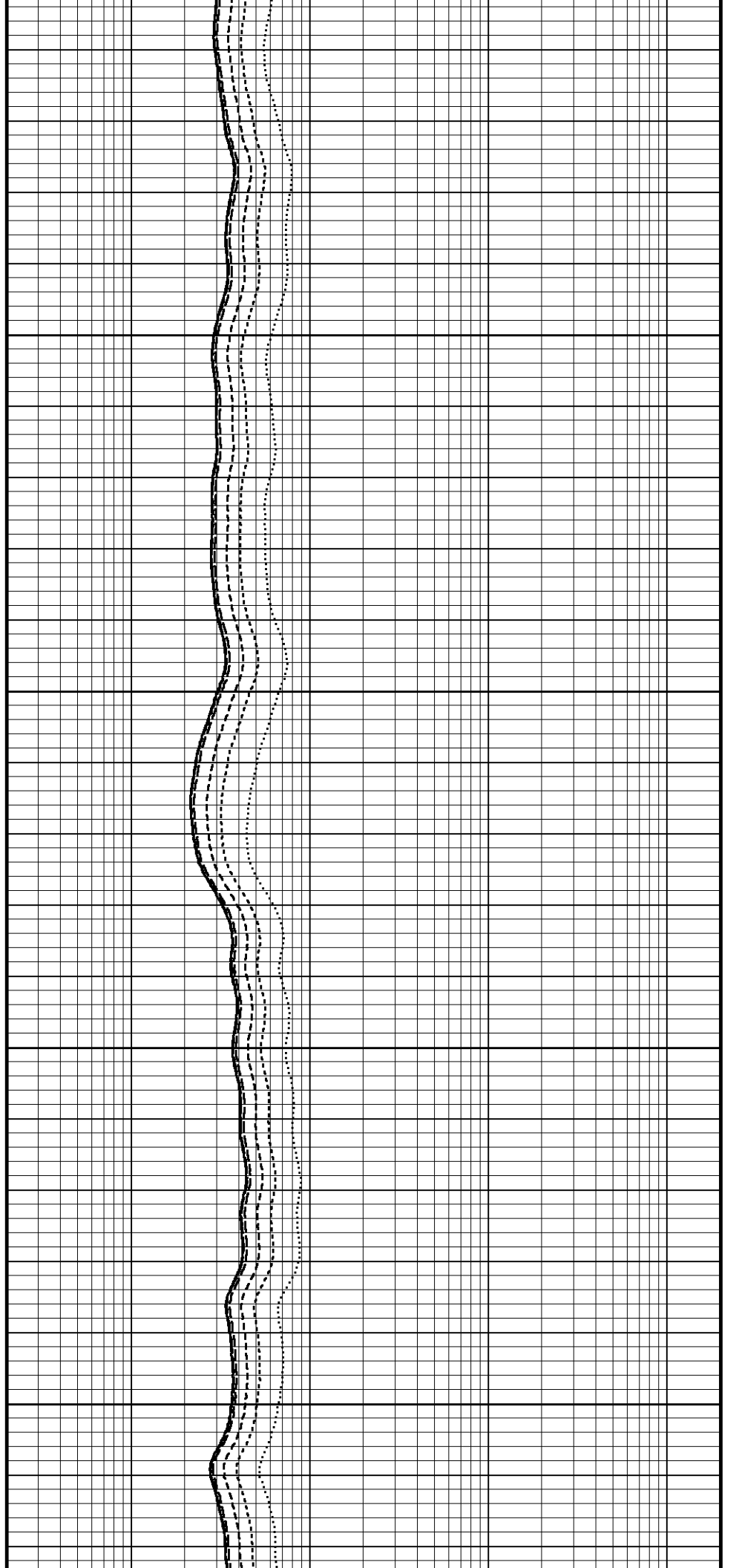
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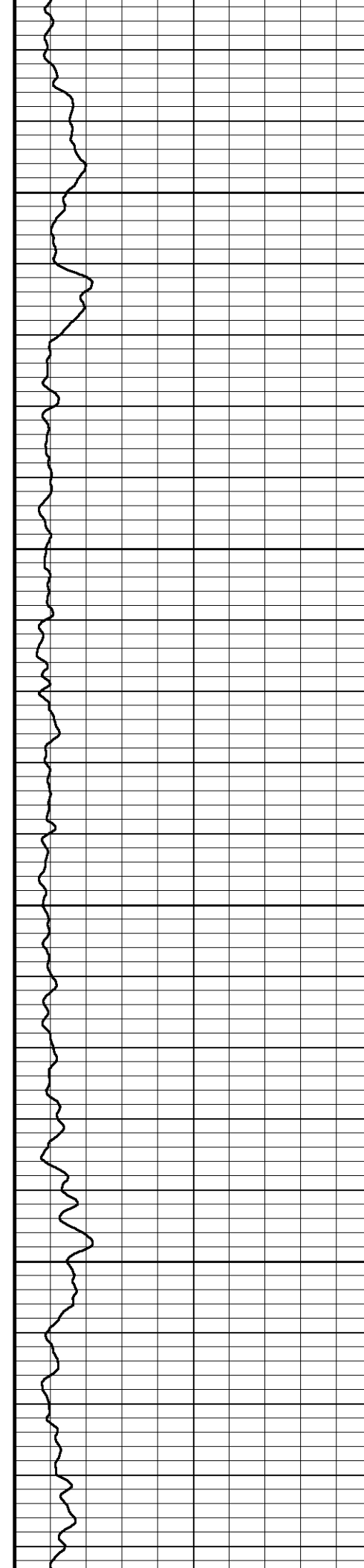
102°

5600

102°

5650





103°

5700

103°

5750

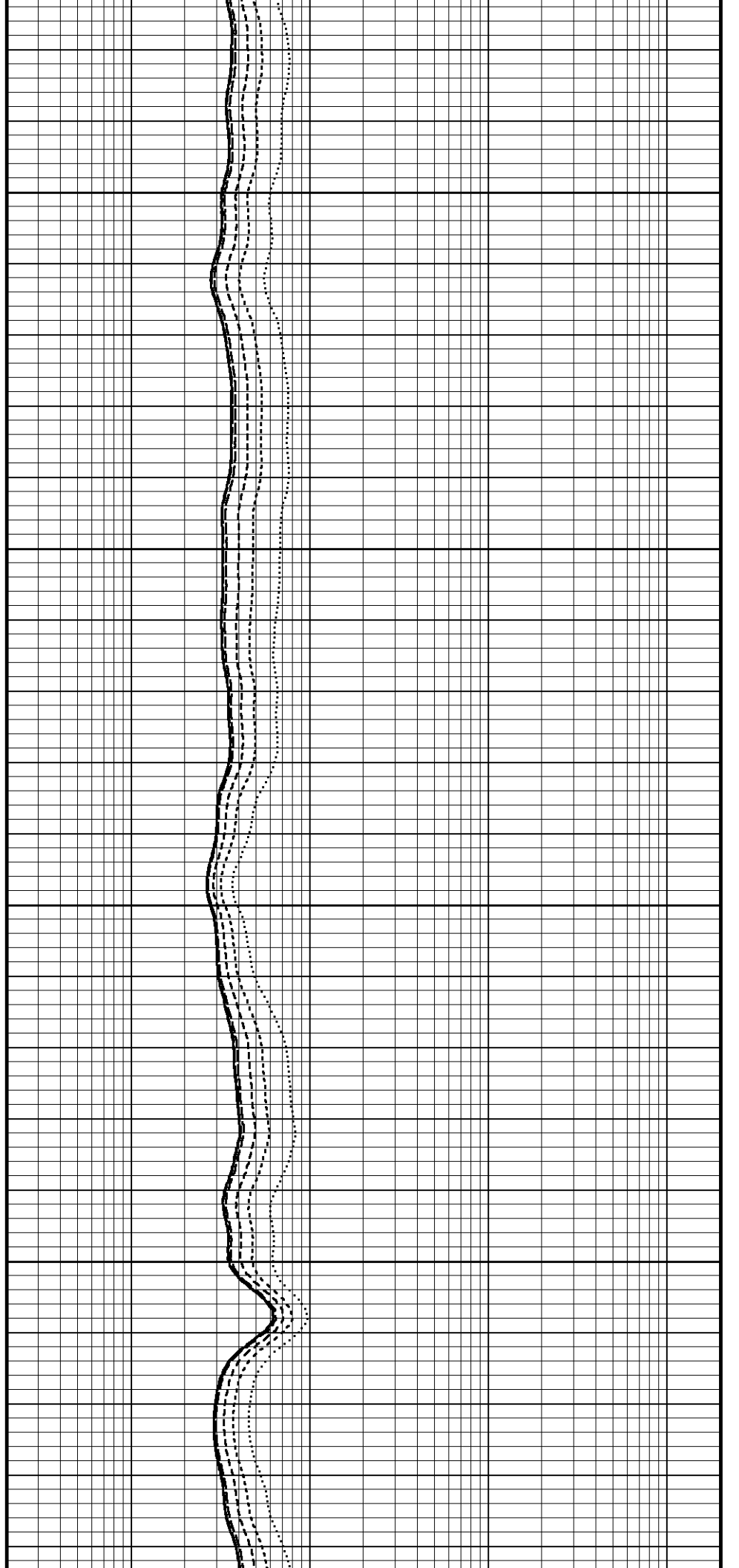
103°

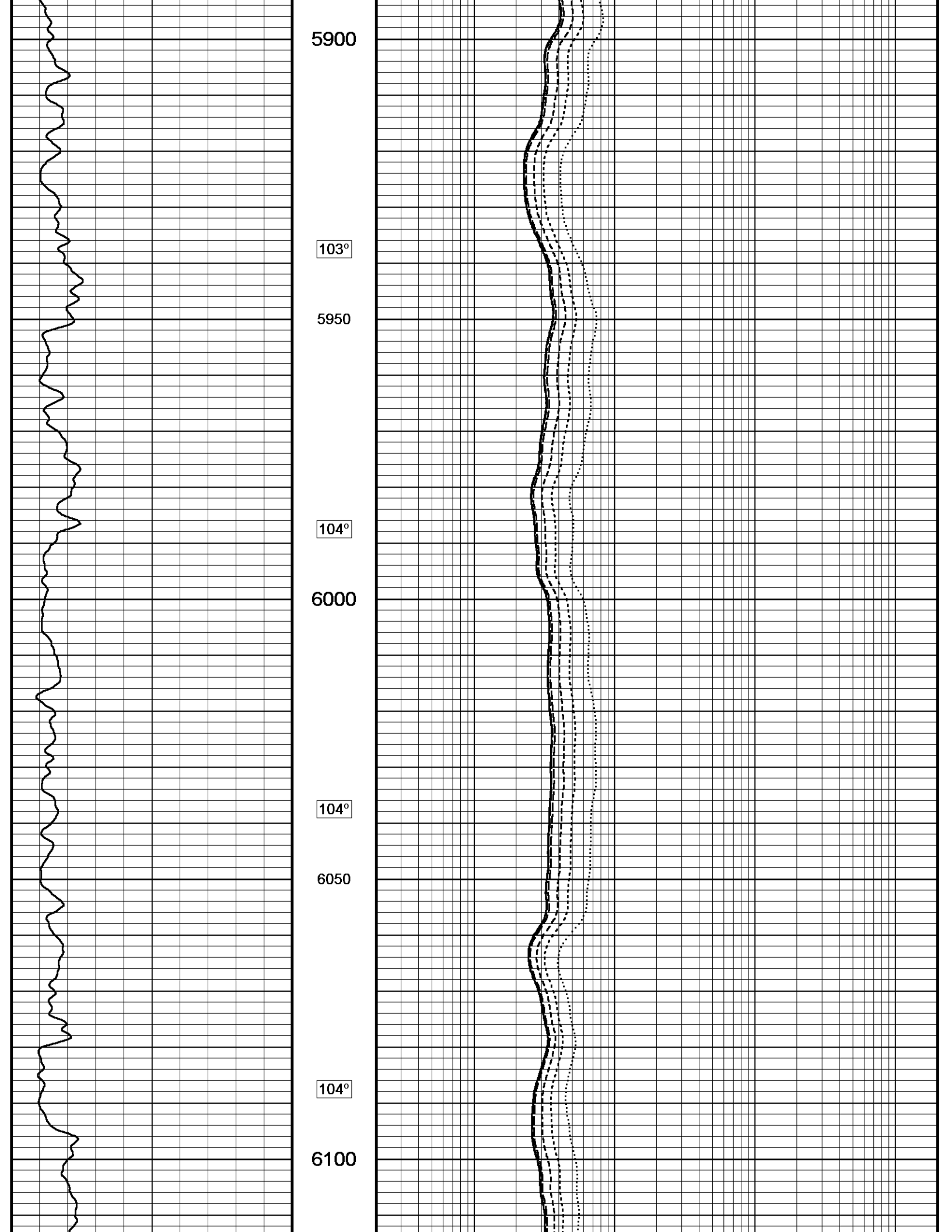
5800

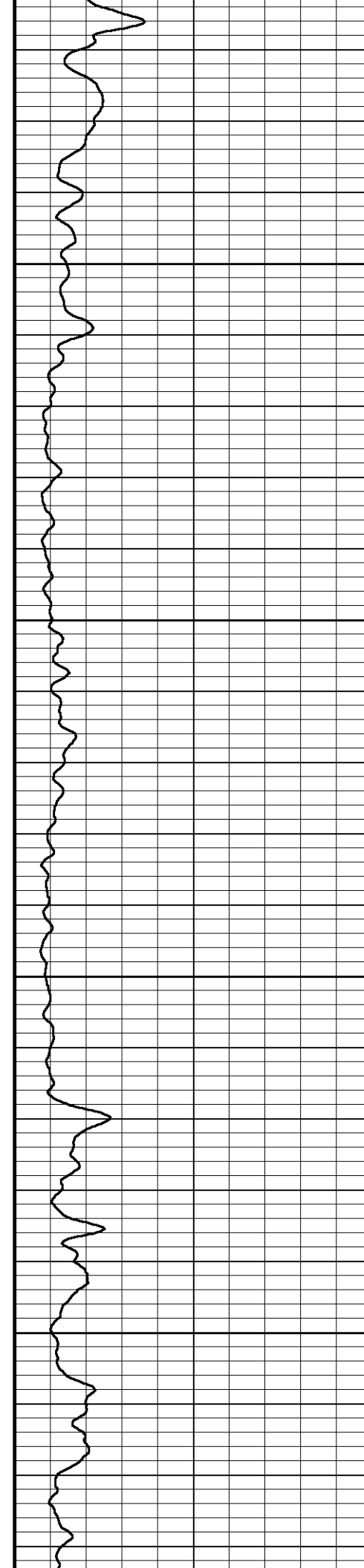
103°

5850

103°







104°

6150

104°

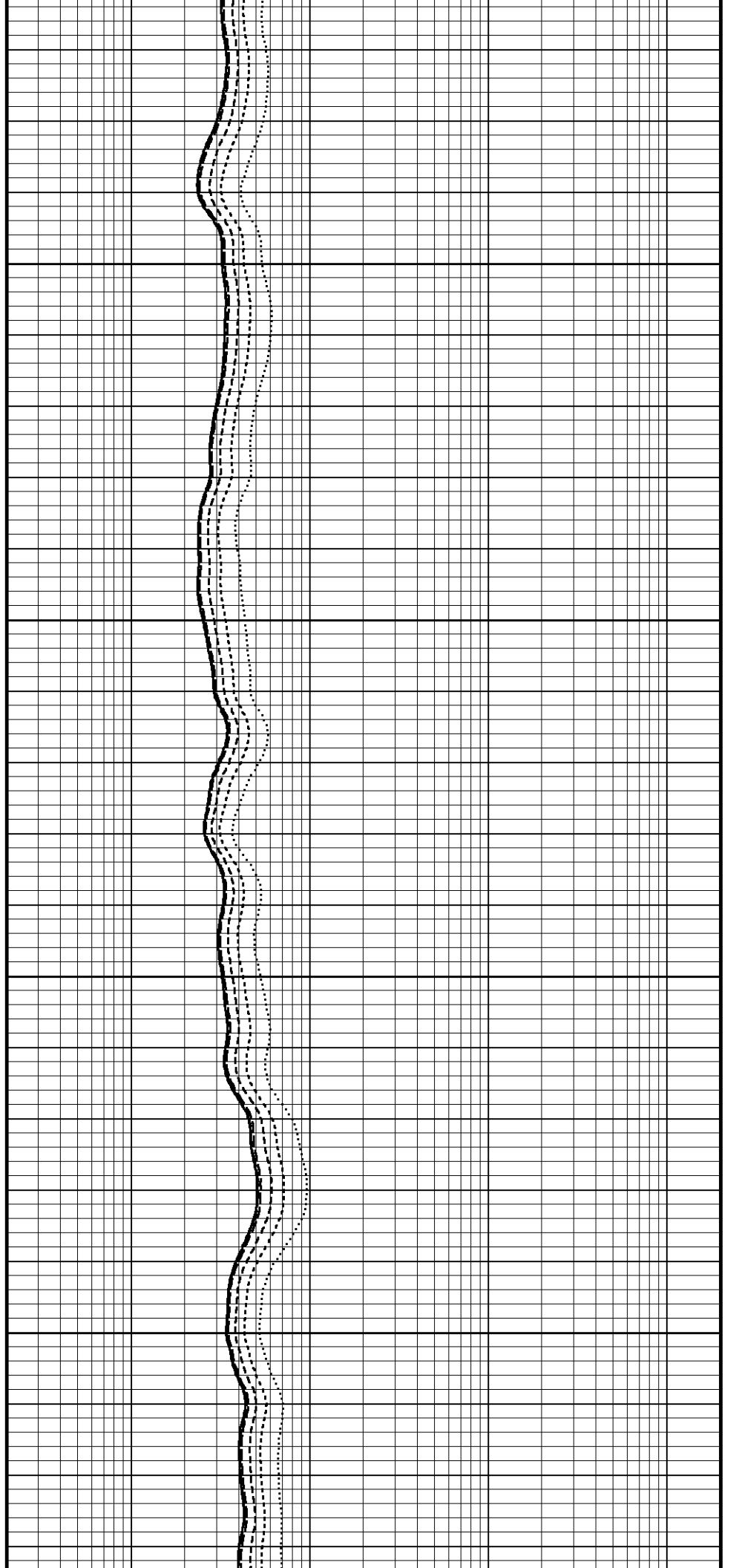
6200

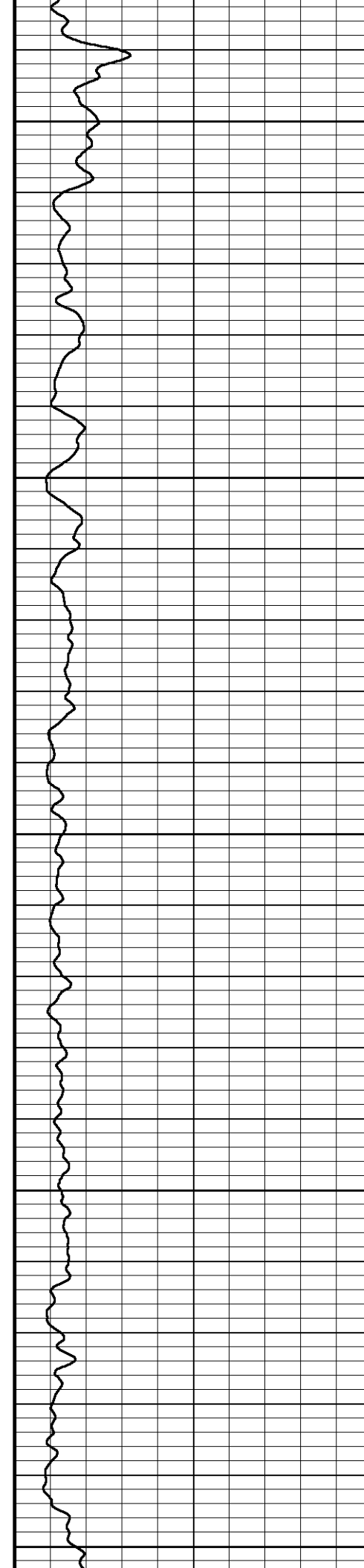
104°

6250

104°

6300





105°

6350

105°

6400

105°

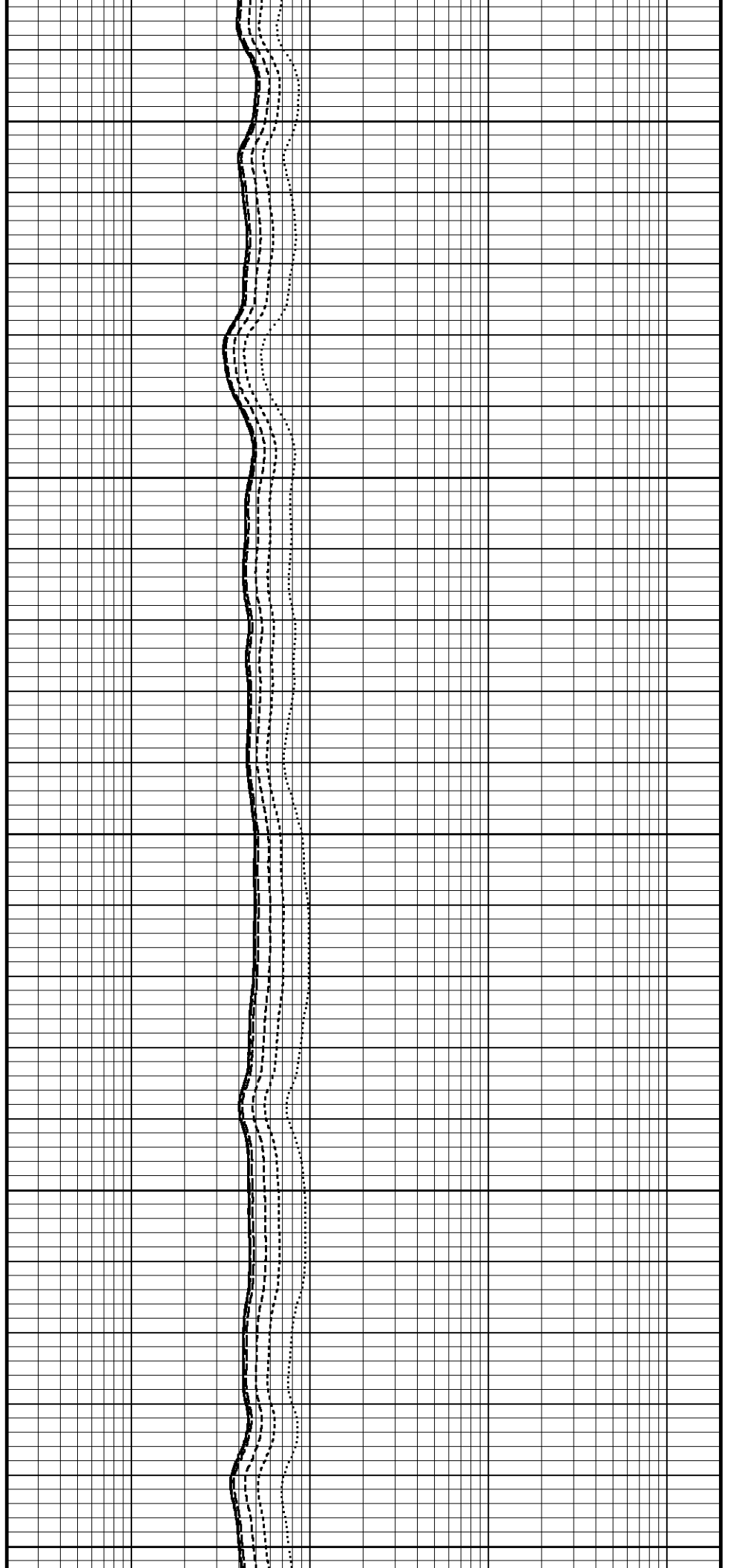
6450

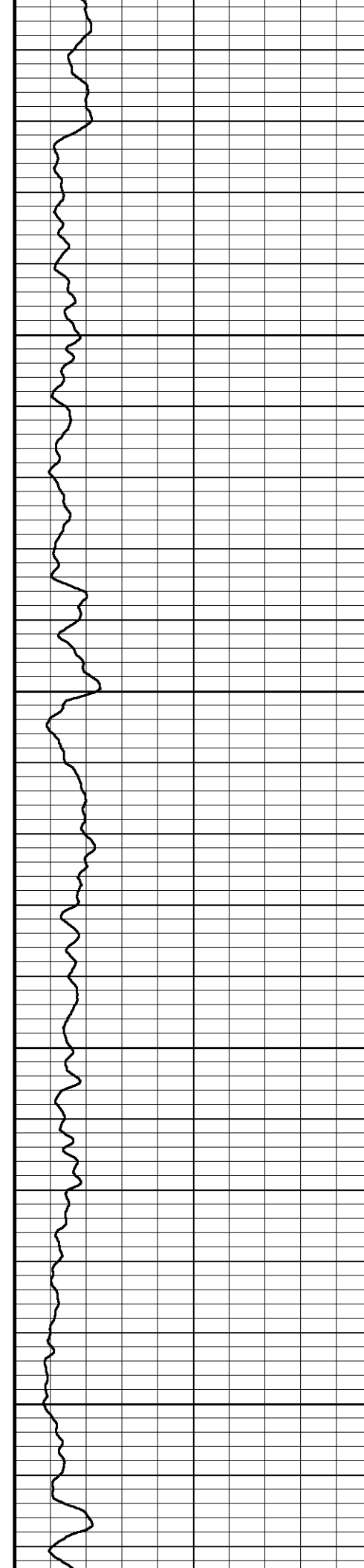
105°

6500

105°

6550





105°

6600

105°

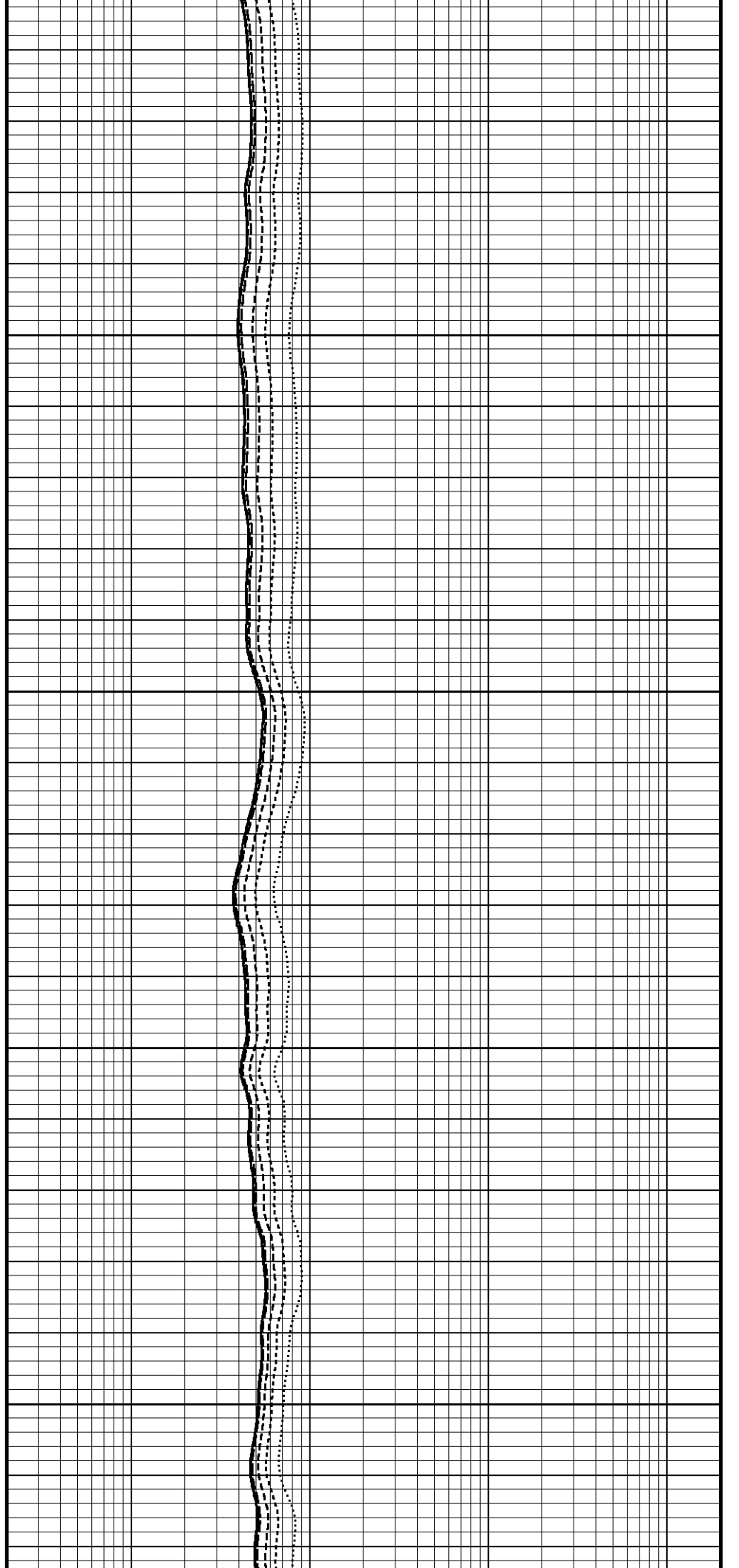
6650

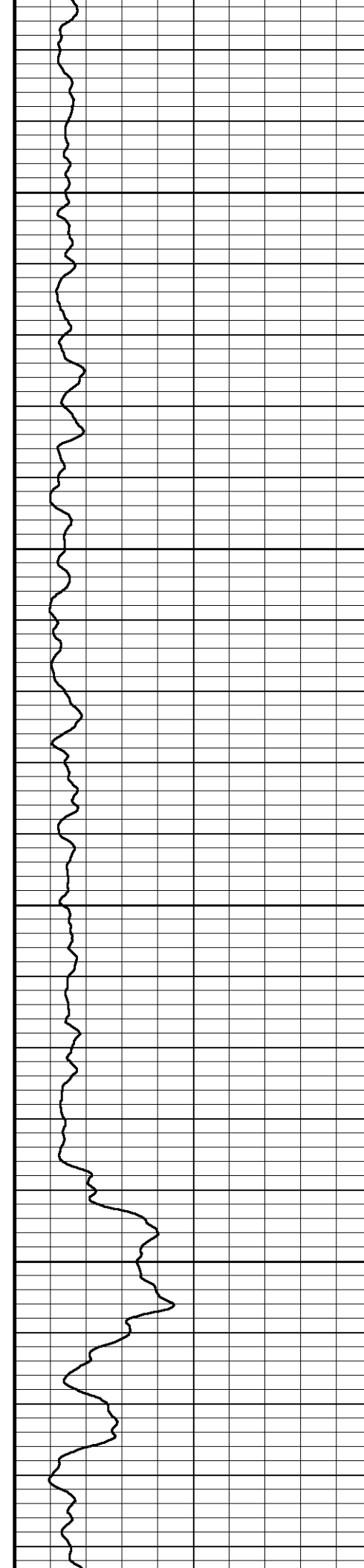
105°

6700

105°

6750





105°

6800

105°

6850

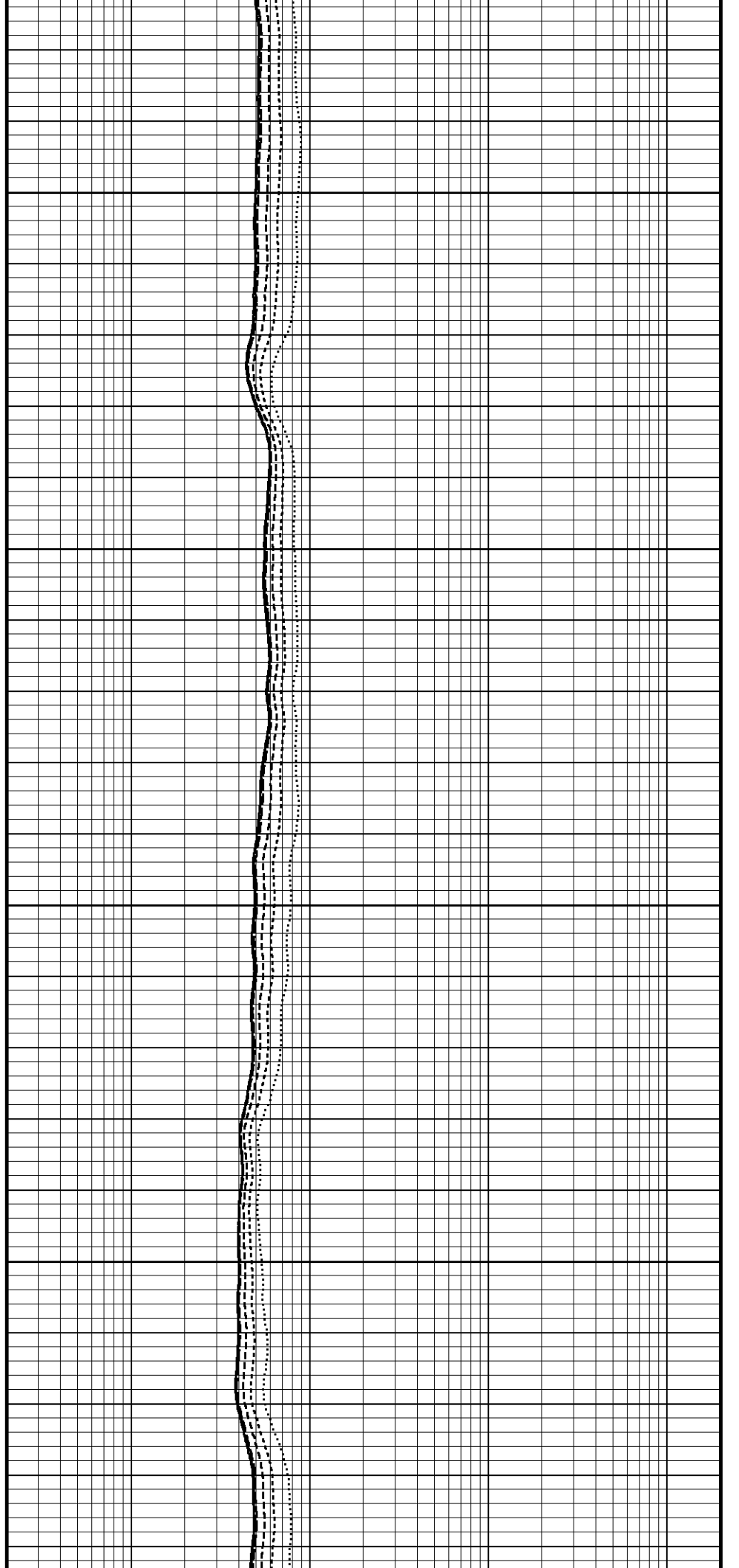
105°

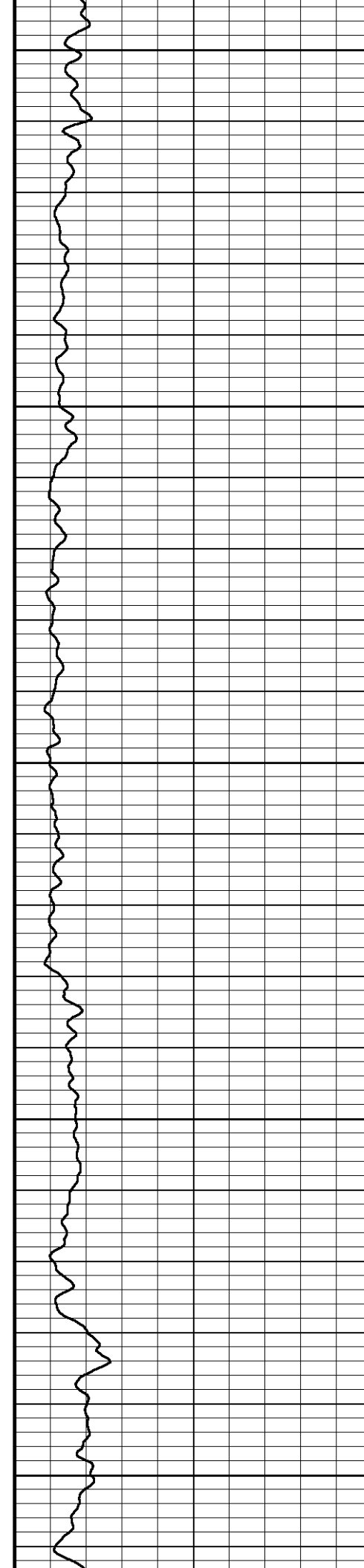
6900

105°

6950

105°





7000

105°

7050

105°

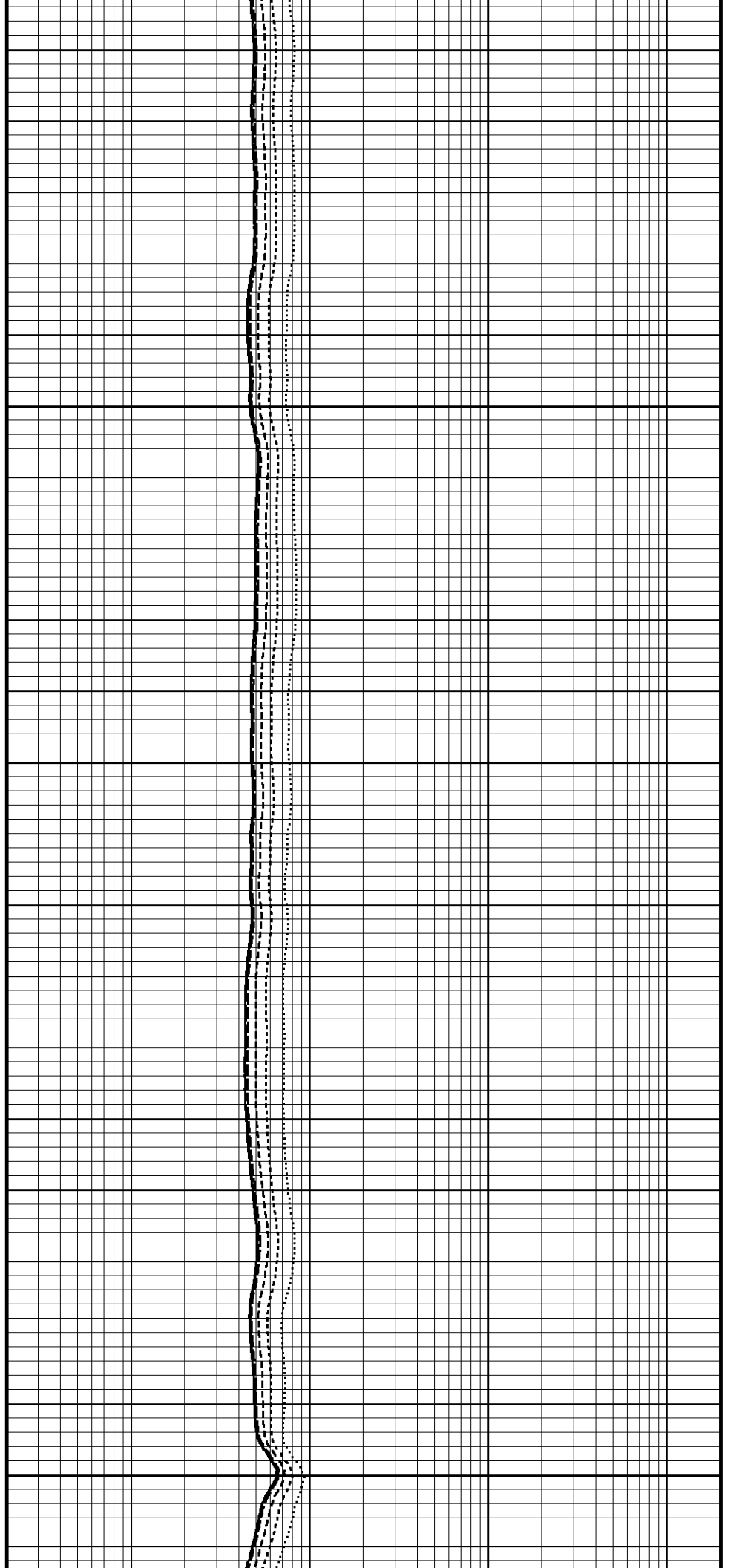
7100

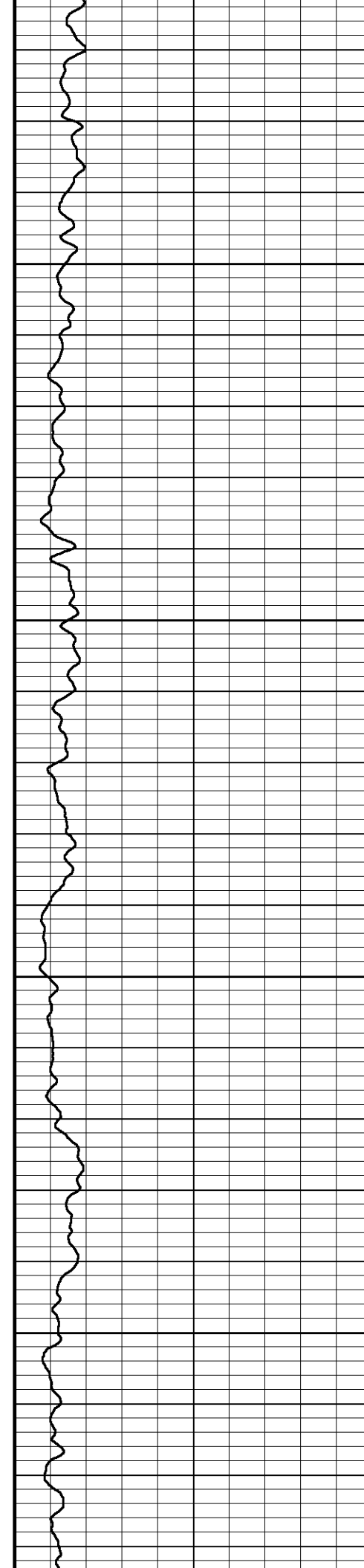
105°

7150

105°

7200





105°

7250

105°

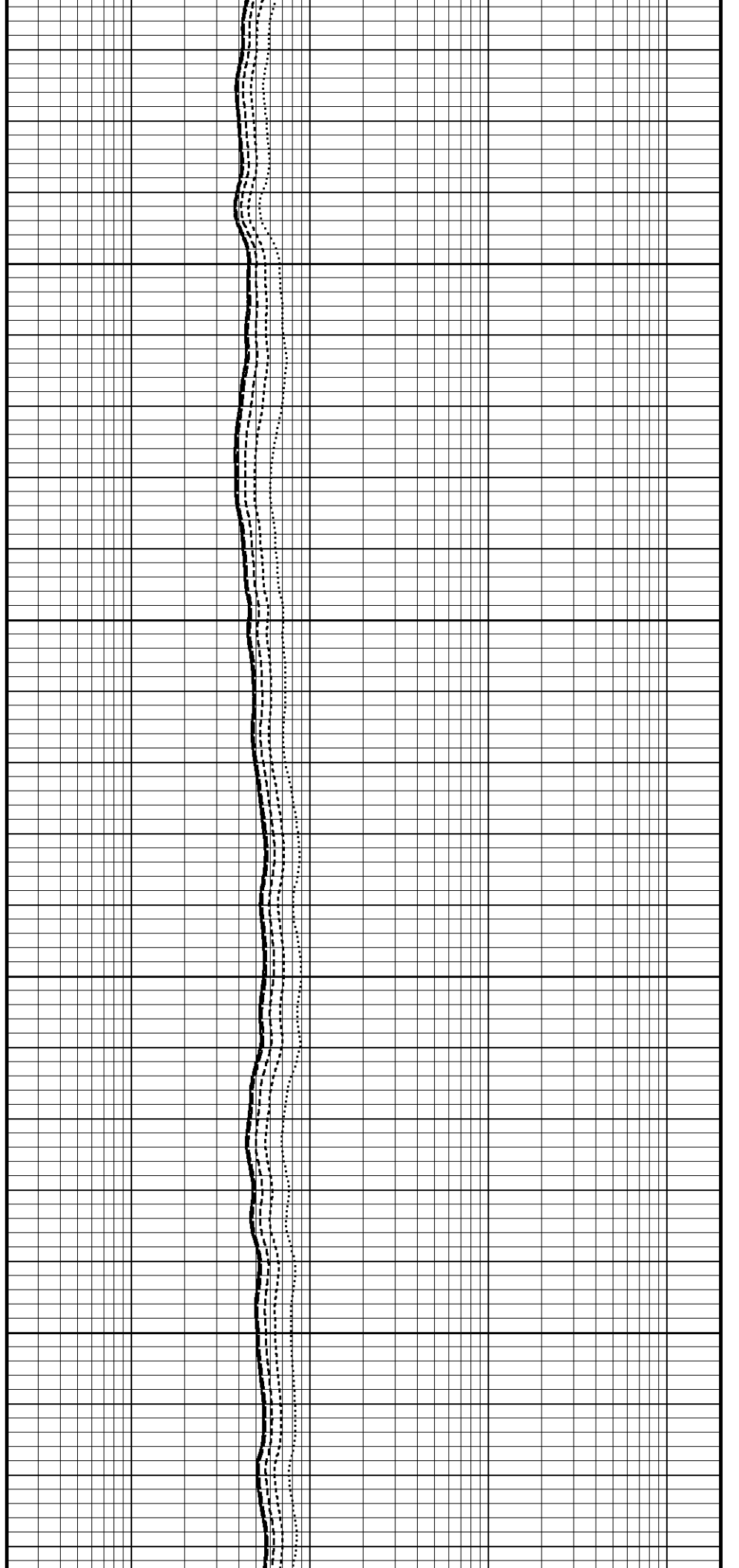
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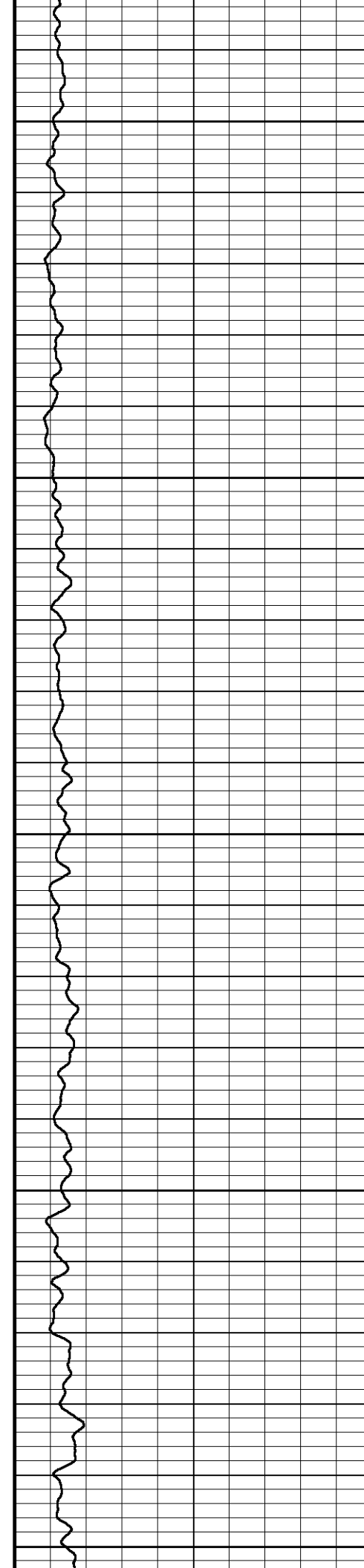
106°

7350

105°

7400





105°

7450

105°

7500

105°

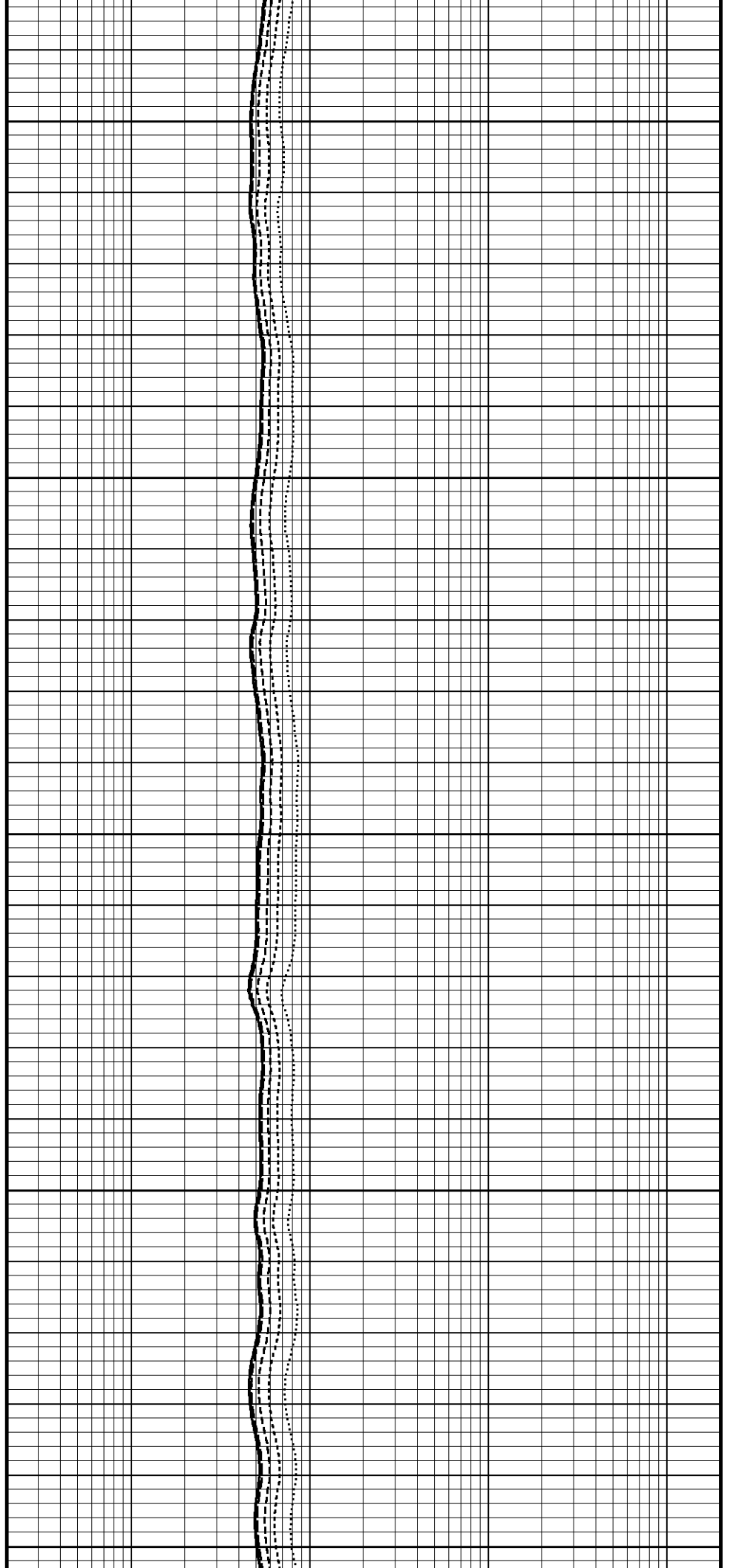
7550

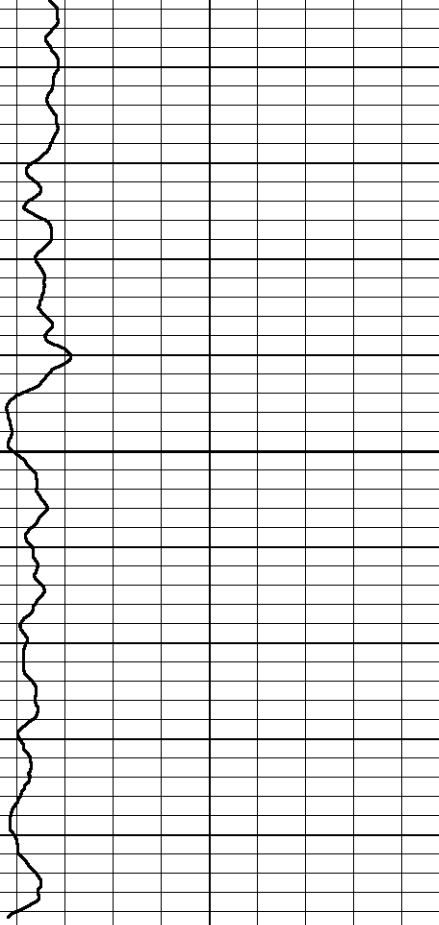
105°

7600

104°

7650





104°

7700

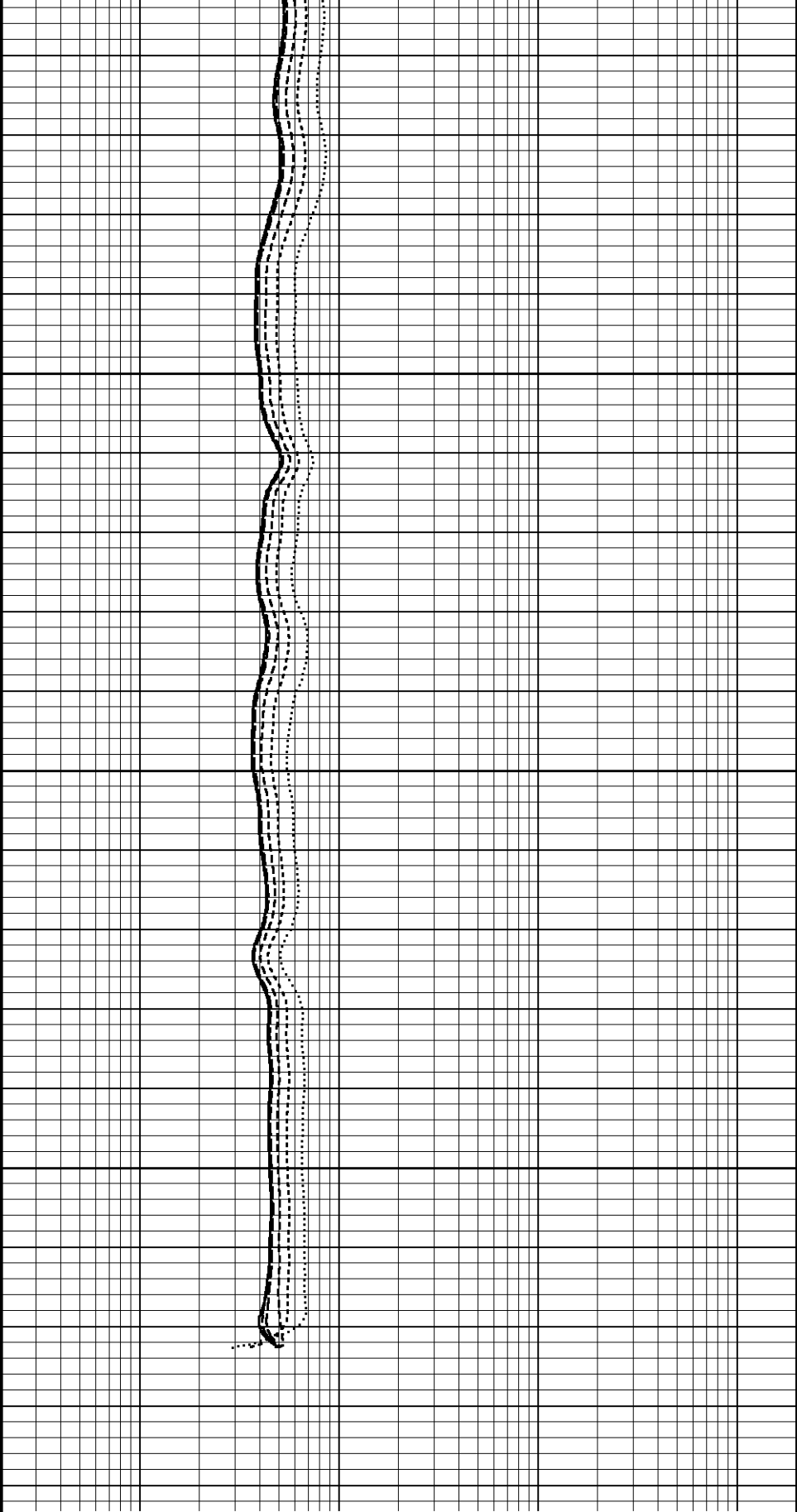
106°

7750

7800

7840

Depth
In
Feet



Array Ind. Six Res 20
ohm metres

0.20

1

10

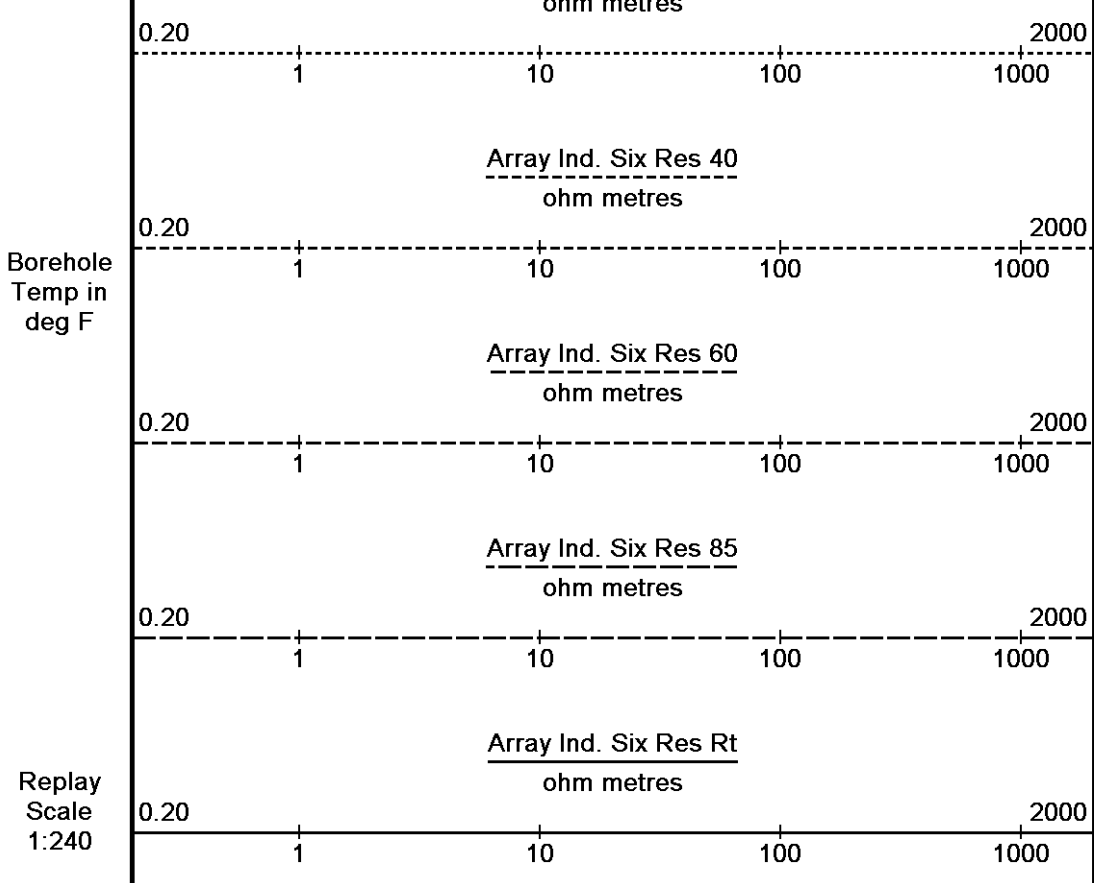
100

1000

2000

Array Ind. Six Res 30
ohm metres

| | | |
|----------------------------------|-----|-----|
| Timing Marks ← every 60.0 sec | | |
| <u>MGS Gamma Ray</u> | | |
| API | | |
| 0 | 75 | 150 |
| 150 | 225 | 300 |



Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Data\CMX\CMX Socrates 1\MMS166 Depthlog.dta
 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186
 Plotted on 20-JAN-2012 04:56
 Recorded on 20-JAN-2012 03:46

↑ DSC ↑

BEFORE SURVEY CALIBRATION

C:\Data\CMX\CMX Socrates 1\MMS166 Depthlog.dta

General Constants All 000 Last Edited on 20-JAN-2012,04:30

| | | |
|---|-----------------------|------------|
| General Parameters | | |
| Mud Resistivity | 1.340 | ohm-metres |
| Mud Resistivity Temperature | 76.000 | degrees F |
| Water Level | 0.000 | feet |
| Density/Neutron Processing | Wet Hole | |
| Hole/Annular Volume and Differential Caliper Parameters | | |
| HVOL Method | Single Caliper | |
| HVOL Caliper 1 | Density Caliper | |
| HVOL Caliper 2 | N/A | |
| Annular Volume Diameter | 4.500 | inches |
| Caliper for Differential Caliper | Density Caliper | |
| Rwa Parameters | | |
| Porosity used | Base Density Porosity | |
| Resistivity used | Deep Induction | |
| RWA Constant A | 0.610 | |
| RWA Constant M | 2.150 | |

Down-hole Tension Calibration SMS 0 Field Calibration on 27-APR-2009 11:57

| Reading No | Measured | Calibrated (lbs) |
|------------|----------|------------------|
| 1 | 15257.84 | 0.00 |
| 2 | 16706.18 | 410.00 |

High Resolution Temperature Calibration MGS-C.J 138 Field Calibration on 22-DEC-2011,11:48

| | Measured | Calibrated(Deg F) |
|-------|----------|-------------------|
| Lower | 50.00 | 50.00 |

100.00

100.00

High Resolution Temperature Constants MGS-C.J 138

Last Edited on

Pre-filter Length 11

SP Calibration MGS-C.J 138

Field Calibration on 22-DEC-2011,12:11

| | Measured | Calibrated (mV) |
|-------------|----------|-----------------|
| Reference 1 | 100.0 | 100.0 |
| Reference 2 | -100.0 | -100.0 |

Gamma Calibration MGS-C.J 138

Field Calibration on 19-JAN-2012,03:30

| | Measured | Calibrated (API) |
|--------------------|----------|------------------|
| Background | 56 | 33 |
| Calibrator (Gross) | 1482 | 890 |
| Calibrator (Net) | 1427 | 857 |

Gamma Constants MGS-C.J 138

Last Edited on 22-DEC-2011,12:11

| | | |
|-------------------------------|-----------------|-------|
| Gamma Calibrator Number | | |
| Mud Density | 1.02 | gm/cc |
| Caliper Source for Processing | Density Caliper | |
| Tool Position | Eccentred | |
| Concentration of KCl | 0.00 | kppm |

Neutron Calibration MDN-B.J 389

Base Calibration on 31-OCT-2011,09:50

Field Check on 19-JAN-2012,03:29

| | Measured | | Calibrated (cps) | |
|--------------------------|----------|-----|------------------|------|
| | Near | Far | Near | Far |
| Ratio | 2849 | 86 | 3714 | 110 |
| | 33.085 | | 33.764 | |
| Field Calibrator at Base | | | Calibrated (cps) | |
| Ratio | | | 2236 | 3339 |
| | | | 0.670 | |
| Field Check | | | Calibrated (cps) | |
| Ratio | | | 2246 | 3378 |
| | | | 0.665 | |

Neutron Constants MDN-B.J 389

Last Edited on 02-JAN-2012,13:16

| | | |
|---------------------------------|-----------------|-----------|
| Neutron Source Id | 712b | |
| Neutron Jig Number | 000 | |
| Epithermal Neutron | No | |
| Caliper Source for Processing | Density Caliper | |
| Stand-off | 0.00 | inches |
| Mud Density | 1.00 | gm/cc |
| Limestone Sigma | 7.10 | cu |
| Sandstone Sigma | 4.26 | cu |
| Dolomite Sigma | 4.70 | cu |
| Formation Pressure Source | Constant Value | |
| Formation Pressure | 0.00 | kpsi |
| Temperature Source | None | |
| Temperature | N/A | degrees F |
| Mud Salinity | 0.00 | kppm |
| Formation Fluid Salinity Source | Constant Value | |
| Formation Fluid Salinity | 0.00 | kppm |
| Barite Mud Correction | Not Applied | |

Imager Pad Check MIE-A.A 113

Field Check on 16-AUG-2008,11:45

| | | | |
|-------|----------------|-------|----------------|
| Pad 1 | Pad Not Tested | Pad 5 | Pad Not Tested |
| Pad 2 | Pad Not Tested | Pad 6 | Pad Not Tested |
| Pad 3 | Pad Not Tested | Pad 7 | Pad Not Tested |
| Pad 4 | Pad Not Tested | Pad 8 | Pad Not Tested |

Compact Micro Imager Constants MIE-A.A 113

Last Edited on 22-MAY-2010,05:16

| | | |
|--------------------------------|-------------------|---------|
| Centre Pad 1 Rotational Offset | 0.00 | degrees |
| Image/Target Quality Reference | Relative Position | |

| | | |
|----------------------------------|------------------|---------|
| Image/Borehole Ovality Reference | Relative Bearing | |
| Non Active Buttons | Omit | |
| Search Angle | 0.00 | degrees |
| Correlation Interval | 3.28 | feet |
| Correlation Step | 1.64 | feet |
| Current Offset | 0.0000 | mAmp |
| Squasher Start | 0.0500 | mAmp |
| Image Processing | Enabled | |

Navigation Constants MIE-A.A 113 Last Edited on 22-DEC-2011,12:01

| | | | |
|----------------------|------|---------|------|
| Magnetic Declination | 3.62 | degrees | East |
|----------------------|------|---------|------|

Magnetometer Parameters MIE-A.A 113

| | | | |
|---------------------------------------|----------------|----------------|----------------|
| Date Of Last Magnetometer Calibration | 01-JAN-1998 | | |
| Slope | X Magnetometer | Y Magnetometer | Z Magnetometer |
| Offset | -1.000000 | -1.016573 | -1.003898 |
| | 0.006568 | -0.015949 | 0.006438 |

Magnetometer Constants MIE-A.A 113 Last Edited on

| | |
|--------------------------------|-----|
| Magnetometer Calibrator Number | 000 |
|--------------------------------|-----|

Accelerometer Parameters MIE-A.A 113

| | | | |
|--|-----------------|-----------------|-----------------|
| Date Of Last Accelerometer Calibration | 01-JAN-1998 | | |
| Slope | X Accelerometer | Y Accelerometer | Z Accelerometer |
| Offset | -1.105490 | -1.103970 | -1.107420 |
| | 0.000458 | 0.006135 | 0.003353 |

Accelerometer Constants MIE-A.A 113 Last Edited on 11-JUN-2009,17:18

| | |
|---------------------------------|-----|
| Accelerometer Calibrator Number | 000 |
|---------------------------------|-----|

Accelerometer Temperature Characterisation

| | | | | |
|--------------------|--------------|--------------|---------------|---------------|
| X Accelerometer | | | | |
| Serial Number | 282 | | | |
| Calibration Date | 18-Jul-2007 | | | |
| | B0 | B1 | B2 | B3 |
| Bias(g) | 0.00000e+000 | 3.41234e-005 | -1.69705e-008 | 1.28660e-010 |
| | SF0 | SF1 | SF2 | SF3 |
| Scale Factor(mA/g) | 3.00000e+000 | 2.70372e-004 | 8.31146e-007 | -1.22715e-009 |

| | | | | |
|--------------------|--------------|--------------|---------------|---------------|
| Y Accelerometer | | | | |
| Serial Number | 284 | | | |
| Calibration Date | 18-Jul-2007 | | | |
| | B0 | B1 | B2 | B3 |
| Bias(g) | 0.00000e+000 | 1.41306e-005 | -2.62559e-009 | 9.20272e-011 |
| | SF0 | SF1 | SF2 | SF3 |
| Scale Factor(mA/g) | 3.00000e+000 | 2.83655e-004 | 6.88154e-007 | -5.98912e-010 |

| | | | | |
|--------------------|--------------|--------------|---------------|---------------|
| Z Accelerometer | | | | |
| Serial Number | 287 | | | |
| Calibration Date | 20-Jul-2007 | | | |
| | B0 | B1 | B2 | B3 |
| Bias(g) | 0.00000e+000 | 2.30753e-005 | -5.40650e-010 | 3.42223e-011 |
| | SF0 | SF1 | SF2 | SF3 |
| Scale Factor(mA/g) | 3.00000e+000 | 2.66160e-004 | 7.47858e-007 | -1.03559e-009 |

Caliper Calibration MIE-A.A 113 Base Calibration on 23-JUN-2008,12:29

Field Calibration on

| | | | | |
|------------------|----------------|----------------|----------------------|--|
| Base Calibration | | | | |
| Reading No | Pads 1-5 Meas. | Pads 3-7 Meas. | Calibrator Size (in) | |
| 1 | 24856 | 25276 | 5.97 | |
| 2 | 35545 | 35312 | 7.99 | |
| 3 | 44370 | 44687 | 9.86 | |
| 4 | 55326 | 56381 | 11.93 | |
| 5 | 0 | 0 | 0.00 | |

| | | | | | |
|------------|-------------|-------------|-------------|-------------|----------------------|
| Reading No | Pad 2 Meas. | Pad 4 Meas. | Pad 6 Meas. | Pad 8 Meas. | Calibrator Size (in) |
| 1 | 23517 | 25136 | 25351 | 23970 | 5.97 |
| 2 | 32111 | 33147 | 34289 | 33287 | 7.99 |
| 3 | 39601 | 41110 | 42395 | 41619 | 9.86 |

| | | | | | |
|---|-------|-------|-------|-------|-------|
| 4 | 49214 | 50836 | 52775 | 51339 | 11.93 |
| 5 | 0 | 0 | 0 | 0 | 0.00 |

Field Calibration

| | | | | |
|--|--|---------------------------------------|---------------------------------------|-------------------------------|
| Measured Pads 1-5 Caliper(in) 0.00 | Measured Pads 3-7 Caliper(in) 0.00 | Actual Caliper(in) 0.00 | | |
| Measured Pad 2 Caliper(in) 0.00 | Measured Pad 4 Caliper(in) 0.00 | Measured Pad 6 Caliper(in) 0.00 | Measured Pad 8 Caliper(in) 0.00 | Actual Caliper(in) 0.00 |

Caliper Constants MIE-A.A 113 Last Edited on

Caliper Difference for BRKT 3.000 mm

High Resolution Temperature Calibration MAI-B.J 394 Field Calibration on 04-OCT-2010,19:11

| | | |
|-------|----------|-------------------|
| | Measured | Calibrated(Deg C) |
| Lower | 10.00 | 10.00 |
| Upper | 100.00 | 100.00 |

High Resolution Temperature Constants MAI-B.J 394 Last Edited on

Pre-filter Length 11

Induction Calibration MAI-B.J 394 Base Calibration on 18-NOV-2011,14:19
Field Check on 19-JAN-2012 03:22

Base Calibration

Test Loop Calibration

| Channel | Measured | | Calibrated (mmho/m) | |
|---------|----------|-------|---------------------|-------|
| | Low | High | Low | High |
| 1 | 16.7 | 473.5 | 9.3 | 966.2 |
| 2 | 5.6 | 368.9 | 7.6 | 821.4 |
| 3 | 3.3 | 256.4 | 5.2 | 566.0 |
| 4 | 1.8 | 133.4 | 2.6 | 279.2 |

Array Temperature 71.8 Deg F

| Channel | Base Check (mmho/m) | | Field Check (mmho/m) | |
|---------|---------------------|------|----------------------|--------|
| | Low | High | Low | High |
| 1 | 0.0 | 0.0 | 11.5 | 3832.2 |
| 2 | 0.0 | 0.0 | 31.5 | 3652.4 |
| 3 | 0.0 | 0.0 | 28.8 | 3084.6 |
| 4 | 0.0 | 0.0 | 19.5 | 2069.2 |
| Deep | 0.0 | 0.0 | 16.2 | 1912.2 |
| Medium | 0.0 | 0.0 | 43.3 | 4146.2 |
| Shallow | 0.0 | 0.0 | 49.0 | 5540.3 |

Array Temperature 0.0 31.5 Deg F

Induction Constants MAI-B.J 394 Last Edited on 20-JAN-2012,04:24

| | |
|-----------------------------------|--------------------------|
| Induction Model | RtAP-WBM |
| Caliper for Borehole Corr. | Density Caliper |
| Hole Size for Borehole Correction | N/A inches |
| Tool Centred | No |
| Stand-off Type | Fins |
| Stand-off | 0.50 inches |
| Number of Fins on Stand-off | 6.0000 |
| Stand-off Fin Angle | 60.00 degrees |
| Stand-off Fin Width | 0.5000 inches |
| Borehole Corr. Rm Source | Temperature Corr |
| Temp. for Rm Corr. | MGS External Temperature |
| Squasher Start | 0.0030 mhos/metre |
| Squasher Offset | N/A mhos/metre |

Borehole Normalisation

| | | | |
|------|--------|------|--------|
| DRM1 | 0.0000 | DRC1 | 0.0000 |
| DRM2 | 0.0000 | DRC2 | 0.0000 |
| MRM1 | 0.0000 | MRC1 | 0.0000 |
| MRM2 | 0.0000 | MRC2 | 0.0000 |
| SRM1 | 0.0000 | SRC1 | 0.0000 |
| SRM2 | 0.0000 | SRC2 | 0.0000 |

| | | |
|------------------------------|------|-------------|
| Calibration Site Corrections | | |
| Channel 1 | 0.00 | mmhos/metre |
| Channel 2 | 0.00 | mmhos/metre |
| Channel 3 | 0.00 | mmhos/metre |
| Channel 4 | 0.00 | mmhos/metre |

Apparent Porosity and Water Saturation Constants

| | | |
|--------------------------------------|--------|---------|
| Archie Constant (A) | 1.00 | |
| Cementation Exponent (M) | 2.00 | |
| Saturation Exponent (N) | 2.00 | |
| Saturation of Water for Apor | 100.00 | percent |
| Resistivity of Water for Apor and Sw | 0.05 | ohm-m |
| Resistivity of Mud Filtrate for Sw | 0.00 | ohm-m |
| Source for Rt | 0.00 | |
| Source for Rxo | 0.00 | |

Caliper Calibration MPD-C.J 395

Base Calibration on 23-APR-2011 16:36
Field Calibration on 19-JAN-2012,03:22

Base Calibration

| Reading No | Measured | Calibrator Size (in) |
|------------|----------|----------------------|
| 1 | 15488 | 3.99 |
| 2 | 24960 | 5.97 |
| 3 | 34848 | 7.99 |
| 4 | 44224 | 9.86 |
| 5 | 55360 | 11.93 |
| 6 | N/A | N/A |

Field Calibration

| Measured Caliper (in) | Actual Caliper (in) |
|-----------------------|---------------------|
| 5.90 | 5.97 |

Photo Density Calibration MPD-C.J 395

Base Calibration on 17-AUG-2011 10:29
Field Check on 19-JAN-2012 03:27

Density Calibration

| Base Calibration | Measured | | Calibrated (sdu) | |
|------------------|----------|-------|------------------|-------|
| | Near | Far | Near | Far |
| Reference 1 | 54132 | 26425 | 60364 | 31945 |
| Reference 2 | 22529 | 2716 | 25079 | 2547 |

Field Check at Base

| | |
|--------|--------|
| 1281.2 | 1499.3 |
|--------|--------|

Field Check

| | |
|--------|--------|
| 1251.3 | 1487.7 |
|--------|--------|

PE Calibration

| Base Calibration | WS | Measured | | Calibrated |
|------------------|-------|----------|-------|------------|
| | | WH | Ratio | Ratio |
| Background | 231 | 1150 | | |
| Reference 1 | 23934 | 53929 | 0.449 | 0.399 |
| Reference 2 | 6456 | 22390 | 0.293 | 0.273 |

Field Check at Base

| | |
|-------|--------|
| 231.5 | 1150.1 |
|-------|--------|

Field Check

| | |
|-------|--------|
| 229.5 | 1123.2 |
|-------|--------|

Density Constants MPD-C.J 395

Last Edited on 28-AUG-2011,16:06

| | | |
|-------------------------------|-----------------|-------|
| Density Source Id | 246 | |
| Nylon Calibrator Number | DNCE603 | |
| Aluminium Calibrator Number | DACA509 | |
| Density Shoe Profile | 4 inch | |
| Caliper Source for Processing | Density Caliper | |
| PE Correction to Density | Not Applied | |
| Mud Density | 1.07 | gm/cc |
| Mud Density Z/A Multiplier | 1.11 | |
| Mud Filtrate Density | 1.00 | gm/cc |
| Dry Hole Mud Filtrate Density | 1.00 | gm/cc |

| | | |
|------------------------|------------|-------|
| DNCT | 0.00 | gm/cc |
| CRCT | 0.00 | gm/cc |
| Density Z/A Correction | Hybrid | |
| Matrix Density (gm/cc) | Depth (ft) | |
| 2.71 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |
| 0.00 | 0.00 | |

DOWNHOLE EQUIPMENT

C:\Data\CMX\CMX Socrates 1\MMS166 Depthlog.dta

SRT Post Deployment
 MLK-A 1 LG: 4.87 ft WT: 30.9 lb OD: 2.24 in

Empty Battery
 MLK-A 2 LG: 14.17 ft WT: 30.9 lb OD: 2.24 in

Empty Battery
 MLK-A 3 LG: 14.17 ft WT: 30.9 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
 SKJ-D.A 166 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MBS-F.A 200v Compact Battery Sub
 MBS-F.A 119 LG: 17.06 ft WT: 123.5 lb OD: 2.24 in

Compact Memory Sub E.B
 MMS-E.B 166 LG: 5.20 ft WT: 37.5 lb OD: 2.24 in

Compact Tool Isolator sub.
 MTI-B.A 72 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in

Compact Short Gamma
 MGS-C.J 138 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 471 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 450 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 310 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron
 MDN-B.J 389 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper
 MPD-C.J 395 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 609 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.A Compact Swivel Head Adaptor
 SHA-J.A 454 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint



SKJ-E.B 456 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-E.A Compact Inline Standoff sub
 MIS-E.A 336 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-D.A Compact Knuckle Joint
 SKJ-D.A 207 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub
 MIS-D.A 590 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section
 MIM-A.A 205 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

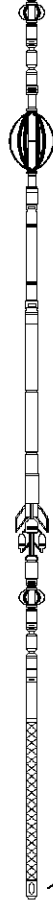
Compact MMI Electrode Section
 MIE-A.A 113 LG: 13.96 ft WT: 99.2 lb OD: 4.10 in

MIS-E.B Compact Inline Standoff sub
 MIS-E.B 596 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint
 SKJ-E.B 472 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

Compact Induction
 MAI-B.J 394 LG: 10.81 ft WT: 48.5 lb OD: 2.24 in

Total Length: 141.26 ft Weight: 901.7 lb



17.35 ft IECY - MIE Caliper Y
 17.35 ft IECX - MIE Caliper X
 16.83 ft IAP1 - Azimuth of Reference
 16.83 ft IMGR - MMI Image

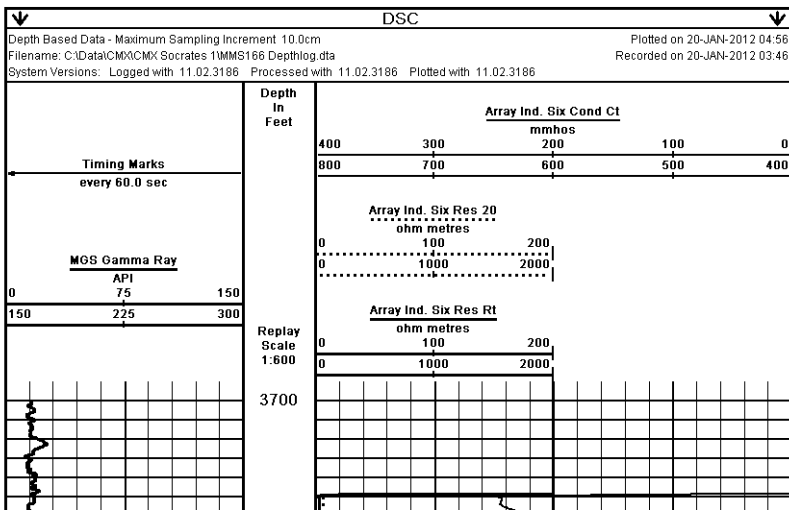
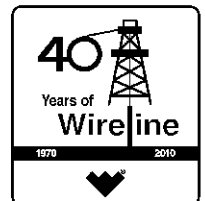
Tool Zero (0.13ft from bottom)
 All measurements relative to tool zero.

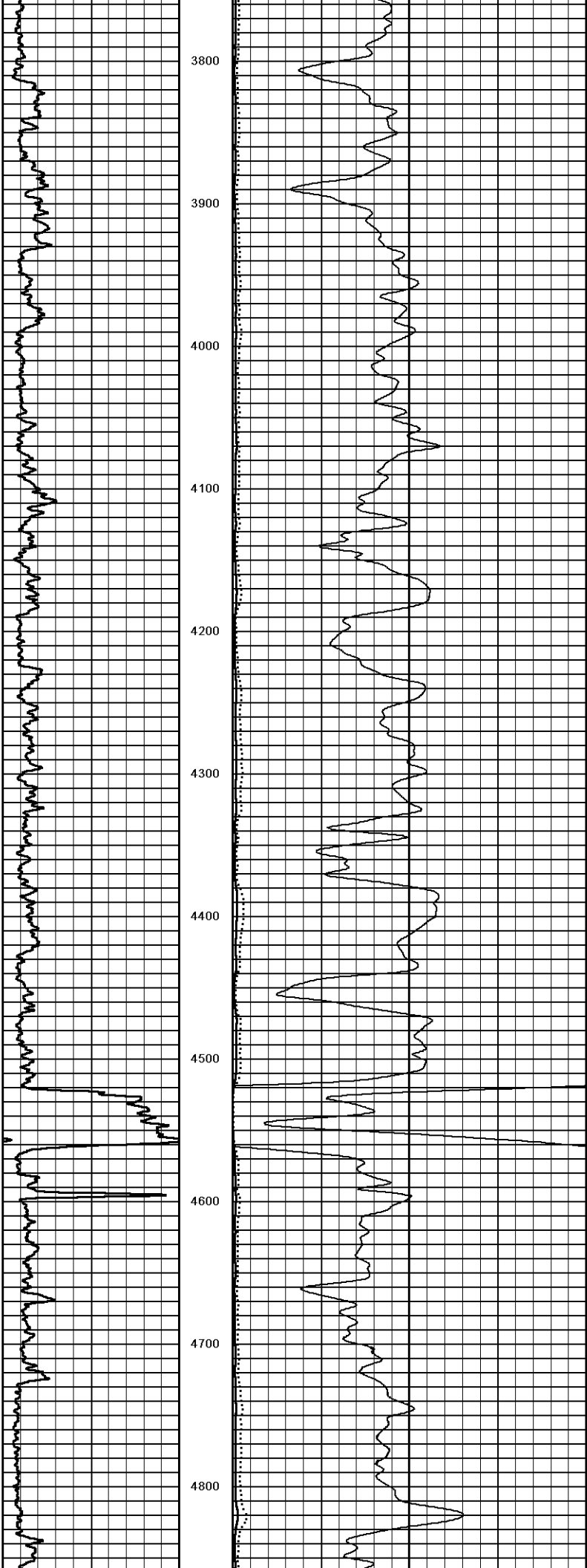
COMPANY CMX INC.
WELL SOCRATES 1H
FIELD WHERRY
PROVINCE/COUNTY RICE
COUNTRY/STATE U.S.A. / KANSAS

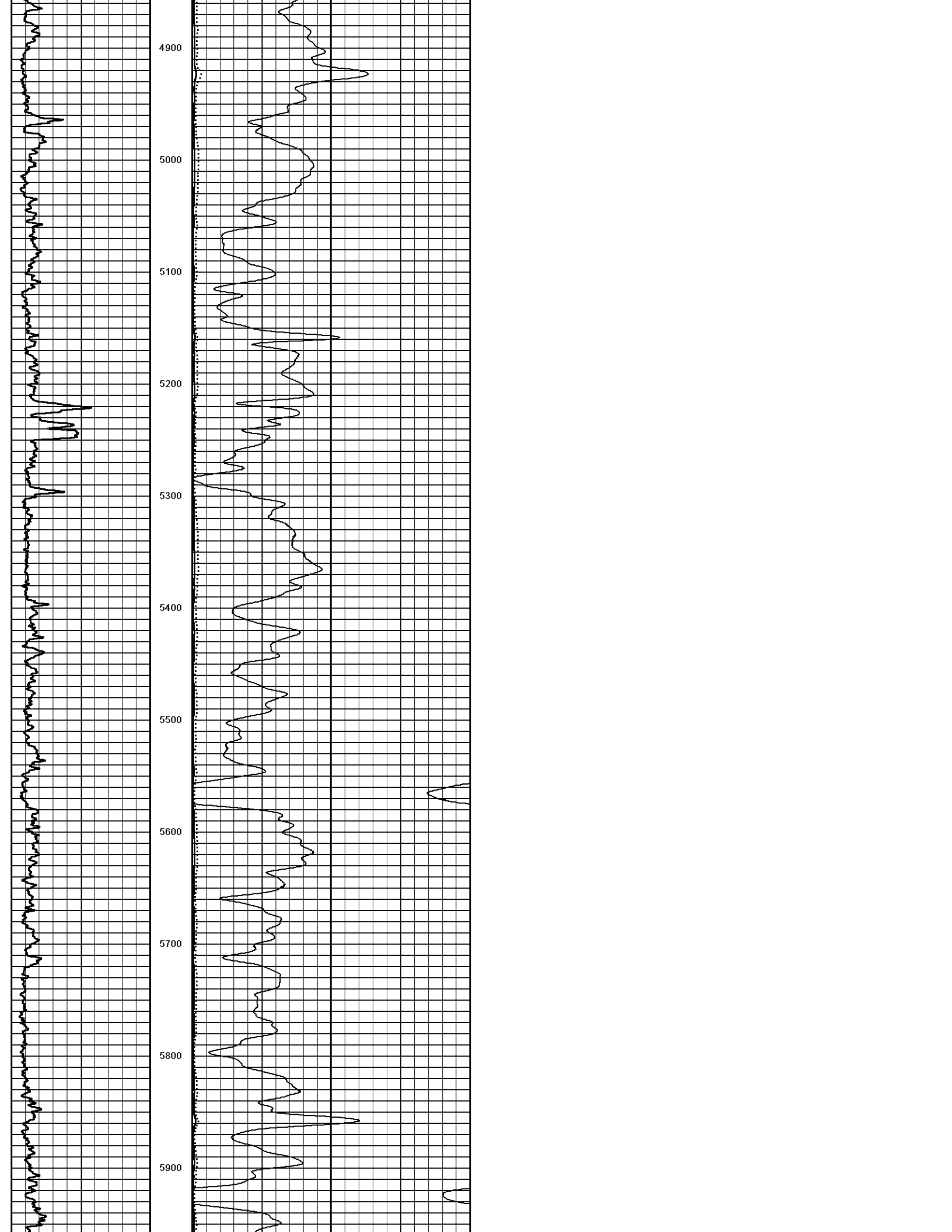
| | | | | | |
|-------------------------|---------|------|---------------|---------|------|
| Elevation Kelly Bushing | 1614.00 | feet | First Reading | 7822.00 | feet |
| Elevation Drill Floor | 1614.00 | feet | Depth Driller | 7950.00 | feet |
| Elevation Ground Level | 1602.00 | feet | Depth Logger | 7828.00 | feet |

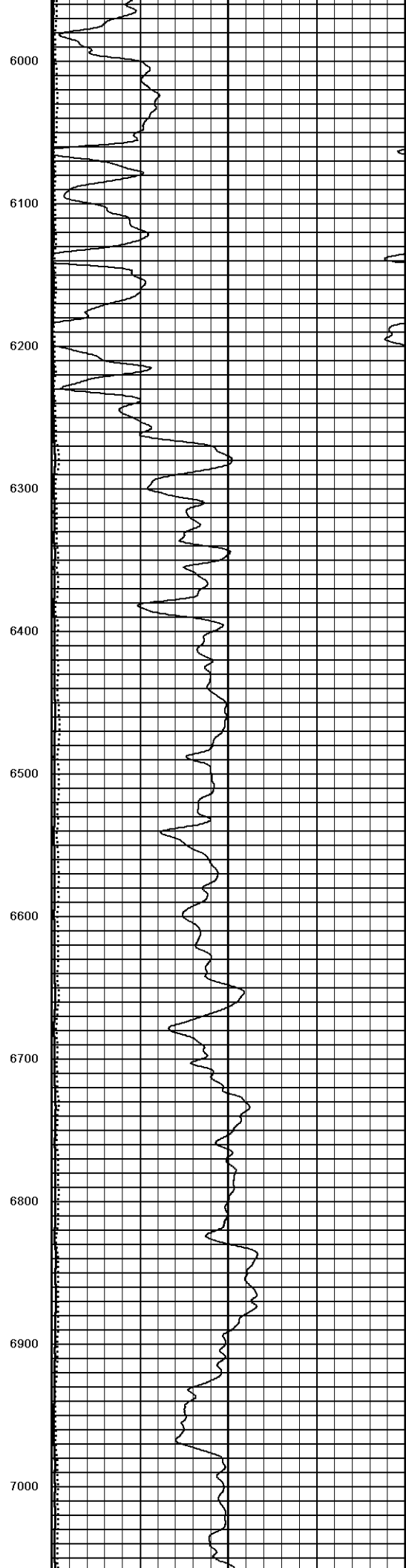


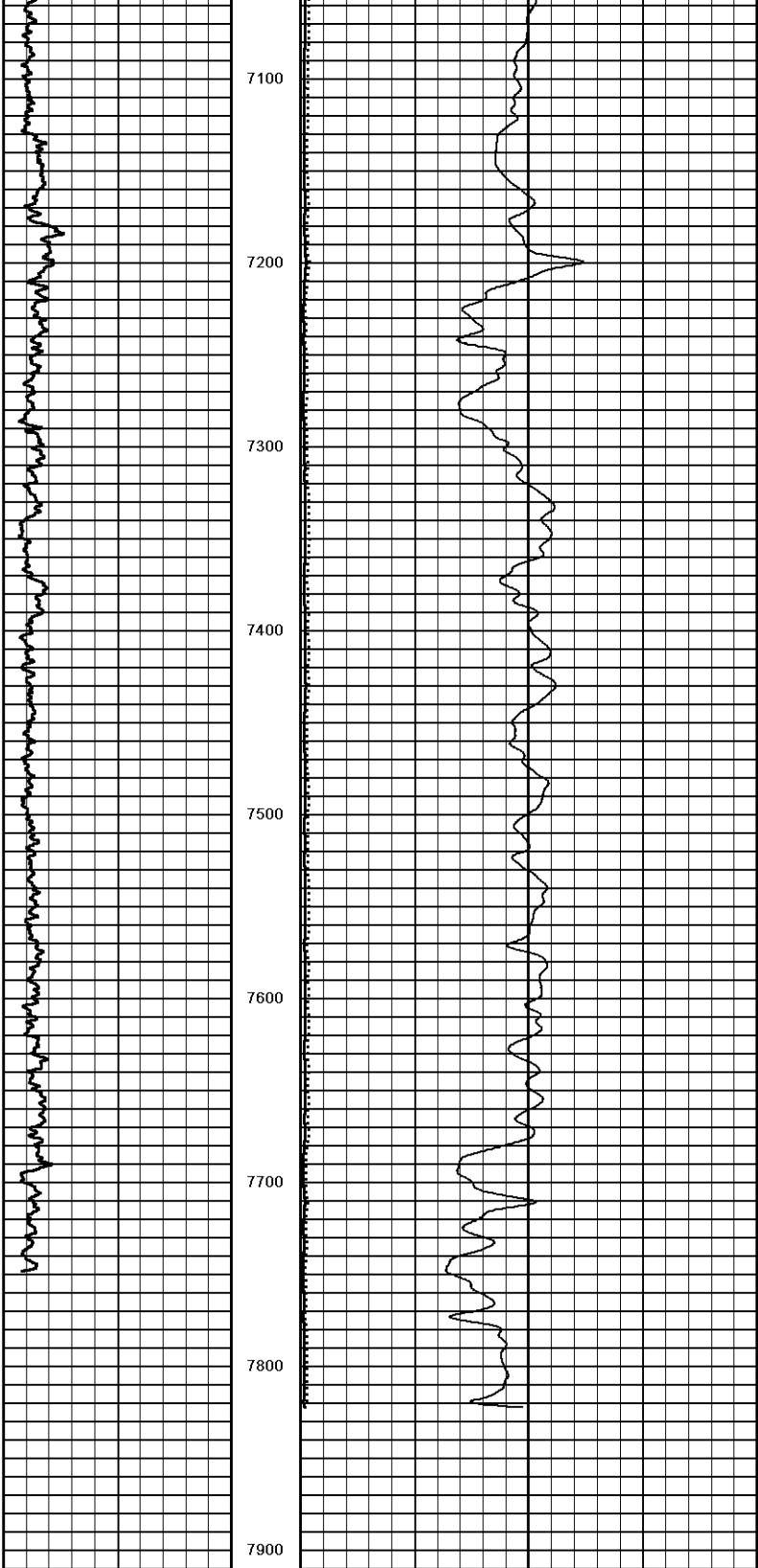
COMPACT WELL SHUTTLE
COMPACT ARRAY INDUCTION
LOG







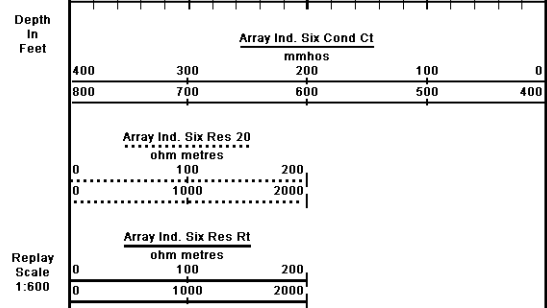




Timing Marks
every 60.0 sec

MGS Gamma Ray
API
0 75 150
150 225 300

Replay
Scale
1:600



Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\Data\CMX\CMX Socrates 1\MMS166 Depthlog.dta
 System Versions: Logged with 11.02.3186 Processed with 11.02.3186 Plotted with 11.02.3186
 Plotted on 20-JAN-2012 04:56
 Recorded on 20-JAN-2012 03:46

↑ DSC ↑

COMPANY CMX INC.
 WELL SOCRATES 1H
 FIELD WHERRY

| | | | |
|-------------------------|--------------|-----------------|--------------|
| PROVINCE/COUNTY | | RICE | |
| COUNTRY/STATE | | U.S.A. / KANSAS | |
| Elevation Kelly Bushing | 1614.00 feet | First Reading | 7822.00 feet |
| Elevation Drill Floor | 1614.00 feet | Depth Driller | 7950.00 feet |
| Elevation Ground Level | 1602.00 feet | Depth Logger | 7828.00 feet |



COMPACT WELL SHUTTLE
 COMPACT ARRAY INDUCTION
 LOG

