



**Weatherford**

**CMWL WELL SHUTTLE**

**COMPACT ARRAY INDUCTION**

**LOG**

**COMPANY** UNIT PETROLEUM  
**WELL** LOUDENBACK 7-1H  
**FIELD** WILDCAT  
**PROVINCE/COUNTY** RENO  
**COUNTRY/STATE** USA / KANSAS  
**LOCATION** 150' FWL & 850' FEL  
**NE NW NE NE**

SEC	TWP	RGE	Other Services
7	25 S	10 W	MPPD/MDN
API Number	15-155-21662-01		CMI
Permit Number	Permanent Datum G.L., Elevation 1770 feet		
Log Measured From	KB		
Drilling Measured From	K.B.		

Date	02-AUG-2013		Elevations:
Run Number	ONE		KB 1784.00
Depth Driller	8615.00	feet	DF 1784.00
Depth Logger	8482.00	feet	GL 1770.00
First Reading	8478.00	feet	
Last Reading	4326.00	feet	
Casing Driller	4320.00	feet	
Casing Logger	4326.00	feet	
Bit Size	6.125	inches	
Hole Fluid Type	WBM		
Density / Viscosity	8.50	lb/USg	28.00 CP
PH / Fluid Loss	8.00		99.00 ml/30Min
Sample Source	FLOWLINE		
Rm @ Measured Temp	2.10 @ 77.0	ohm-m	
Rmf @ Measured Temp	1.68 @ 77.0	ohm-m	
Rmc @ Measured Temp	2.52 @ 77.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	1.23 @ 131.0	ohm-m	
Time Since Circulation	1 HOUR		
Max Recorded Temp	131.00	deg F	
Equipment Name	COMPACT		
Equipment / Base	18064	OKC	
Recorded By	C. GRIFFIN		
Witnessed By	R. WILSON		
S.O.#/AFE	3540222 / 1307200		

**BOREHOLE RECORD**

Last Edited: 02-AUG-2013 15:13

Bit Size inches	Depth From feet	Depth To feet
6.125	4320.00	8615.00

**CASING RECORD**

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
INTERMED	7.000	0.00	4320.00	26.00

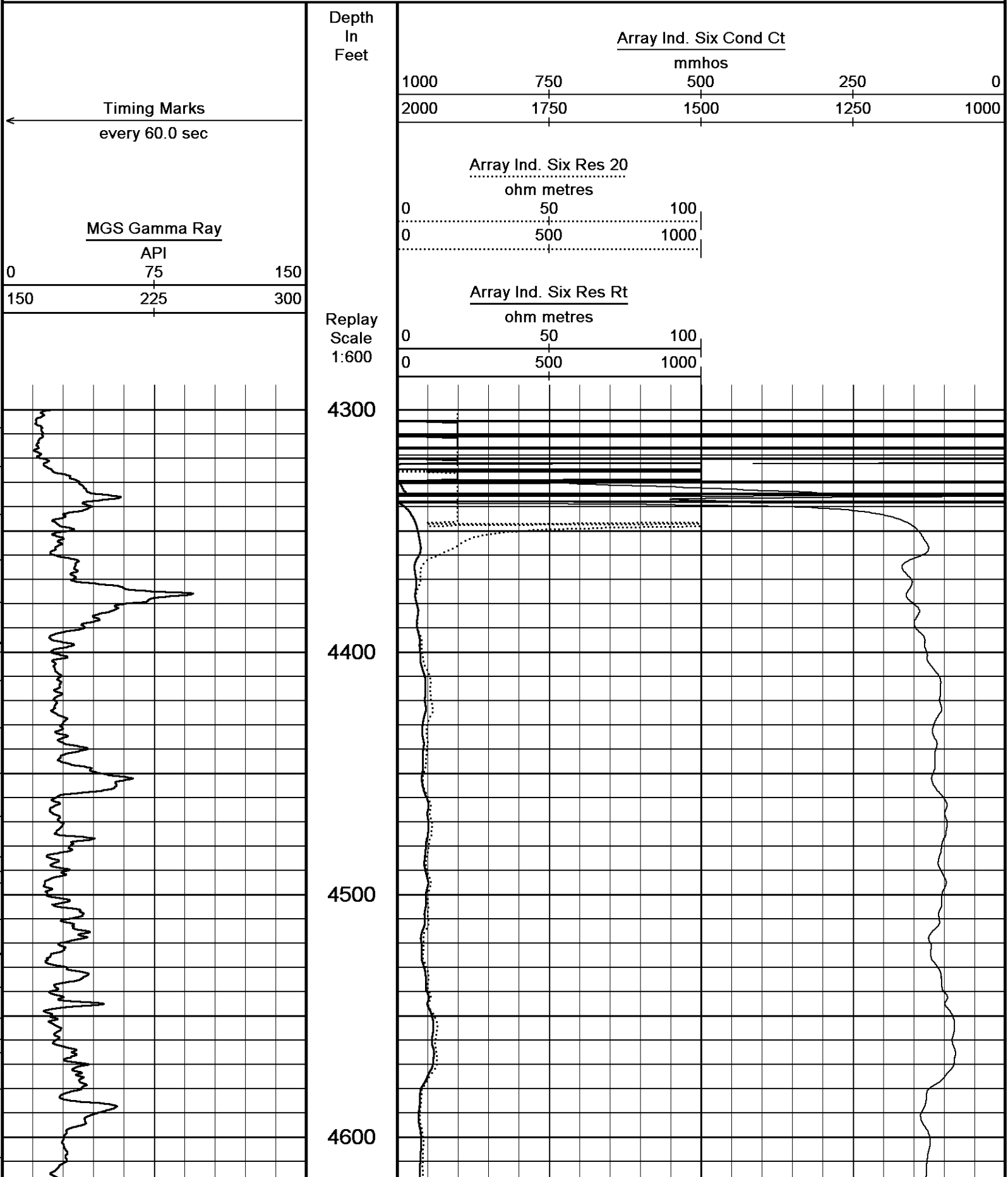
**REMARKS**

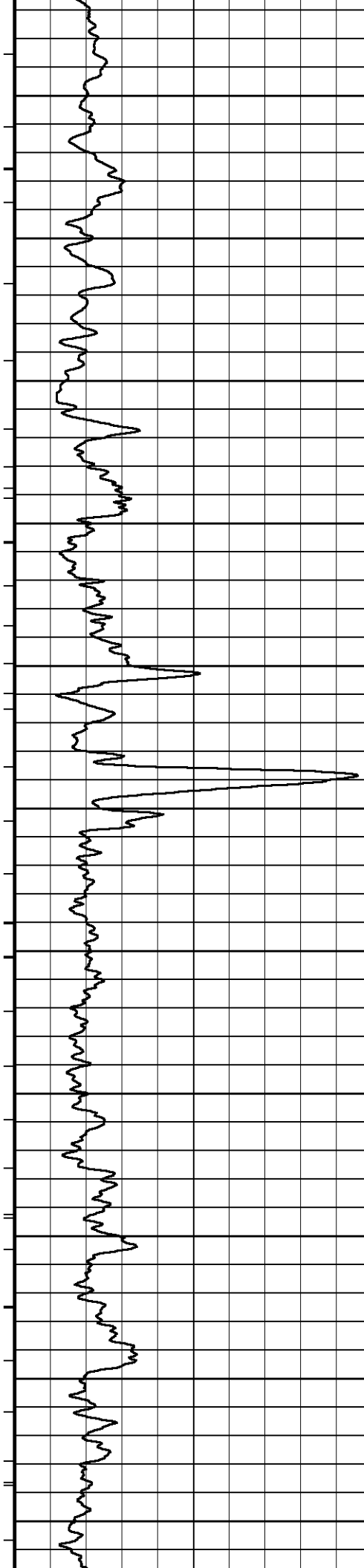
WLS SOFTWARE VERSION 13.03. USED.  
 TOOLS RUN ON DRILLPIPE USING COMPACT WELL SHUTTLE DEPLOYMENT TECHNIQUE.  
 DEPTH MEASURED USING ADVANTAGE RIG DEPTH CORRECTED TO PIPE TALLY.  
 TOOLS DEPLOYED WITH MULE SHOE SITTING AT 8379 FT.  
 AFTER DEPLOYMENT LOGGING TOOL WAS AT 8482 FT.  
 4.5 " PRODUCTION CASING USED TO CALCULATE ANNULAR HOLE VOLUMES.  
 OPERATORS: G. GARCIA, C. ALEXANDER  
 RIG: UNIT 331

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\Unit\Unit Loudenback 7-1H\MSS 166 Depth Log2.dta  
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779  
 Plotted on 03-AUG-2013 11:13  
 Recorded on 03-AUG-2013 10:21





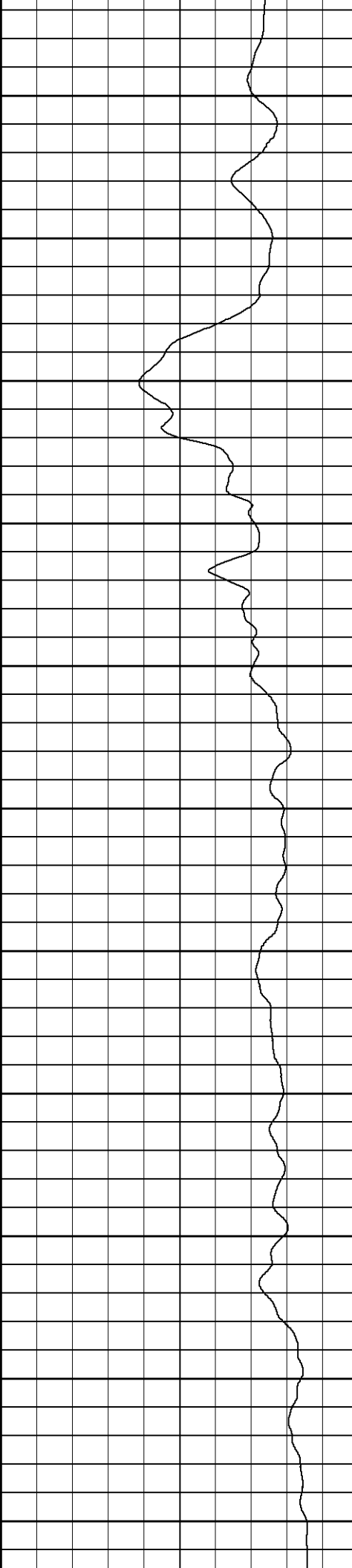
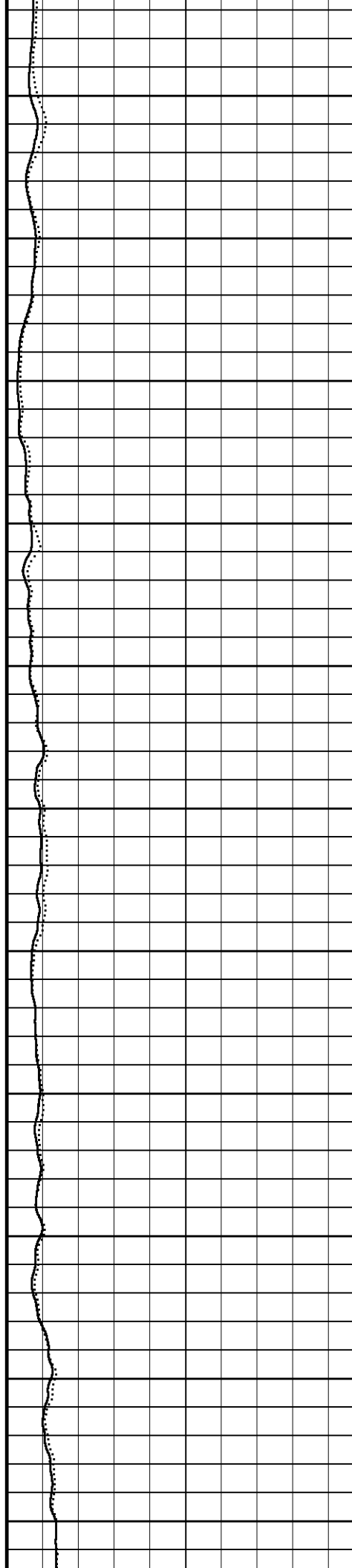
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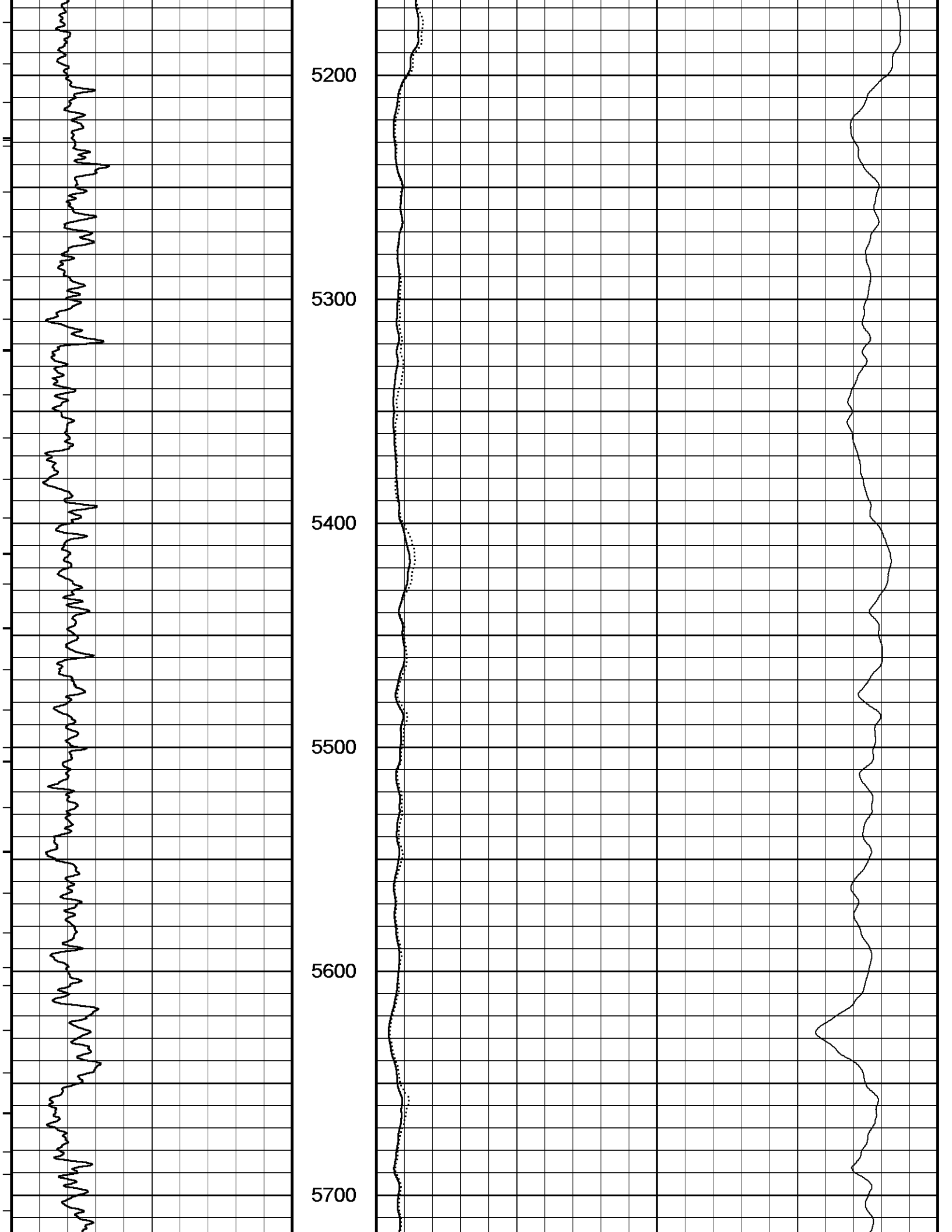
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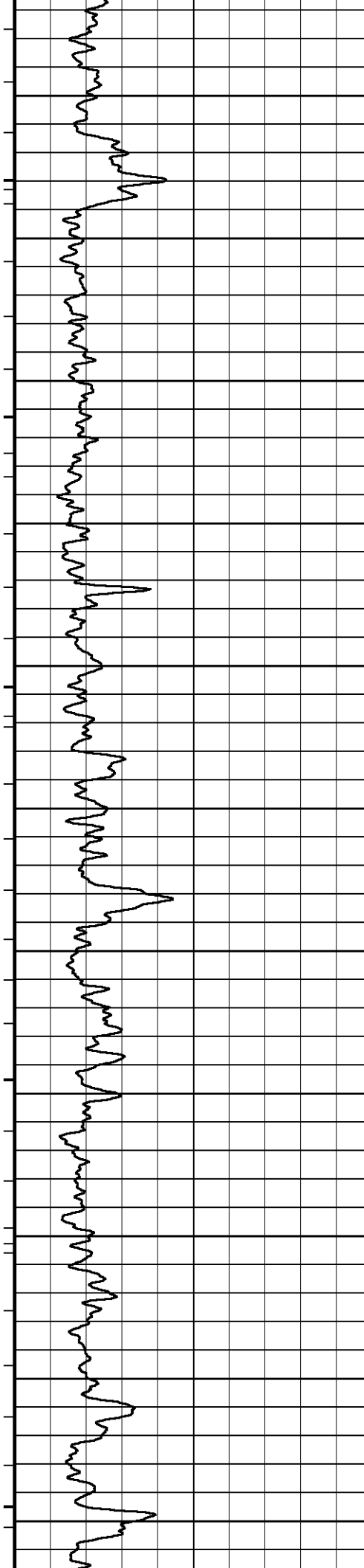
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5000

5100







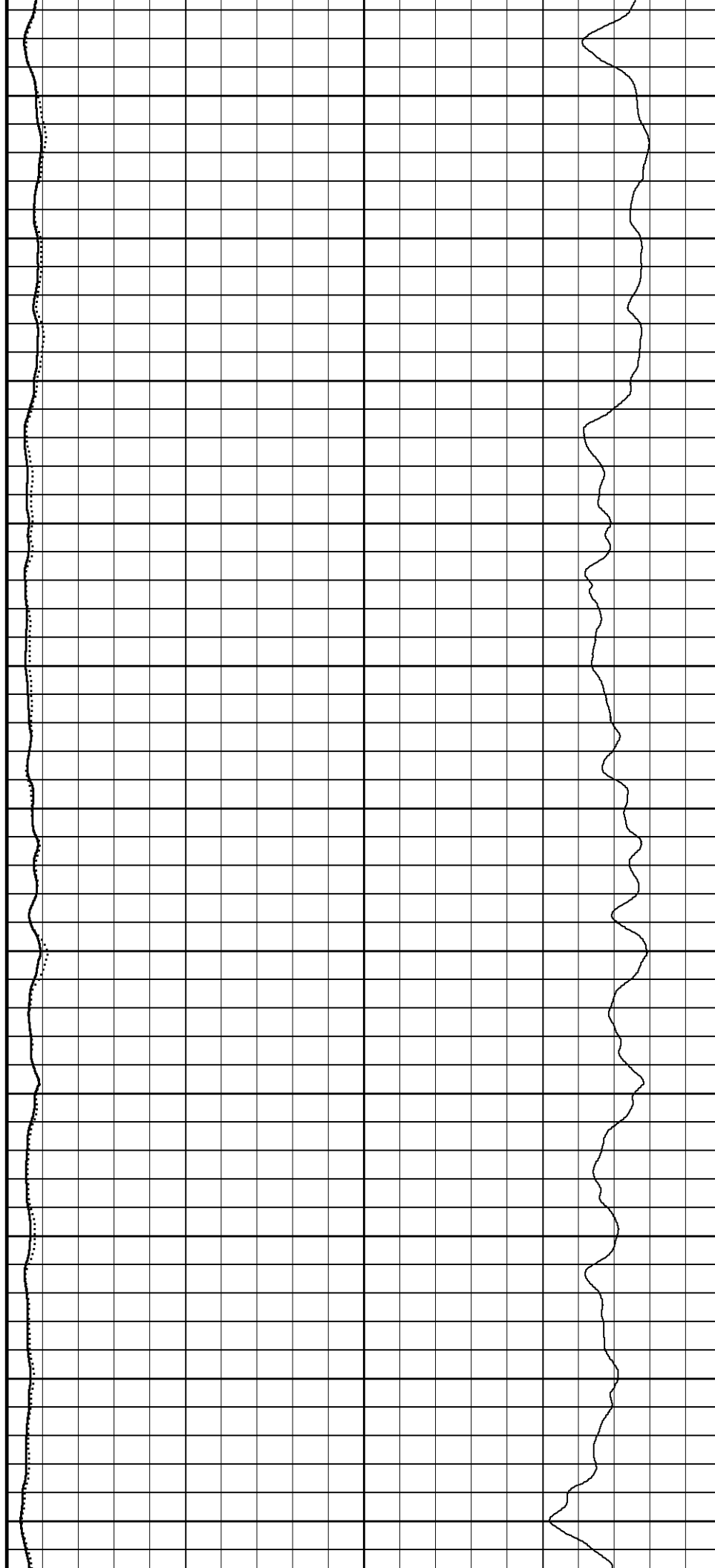
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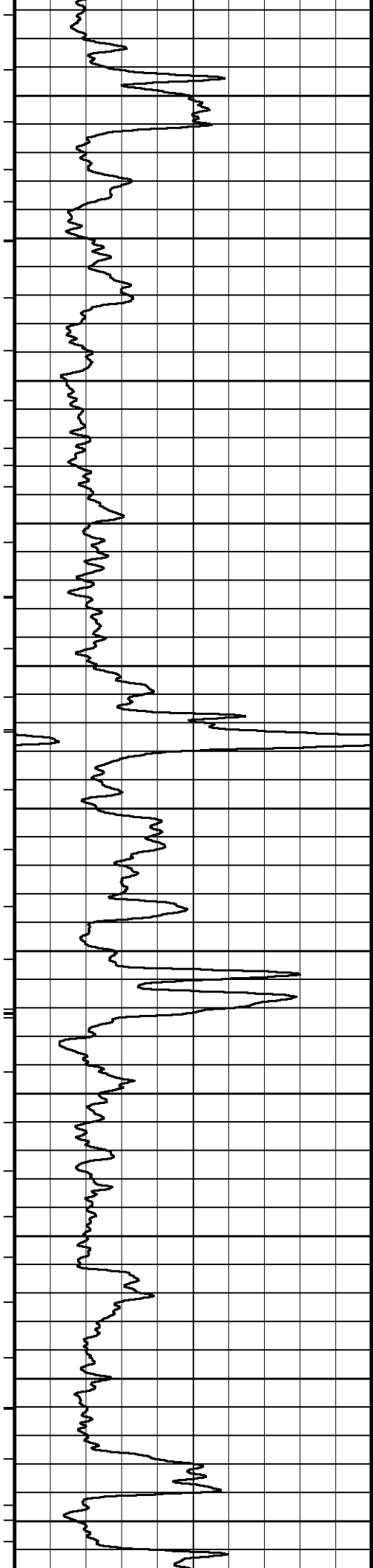
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6000

6100

6200





6300

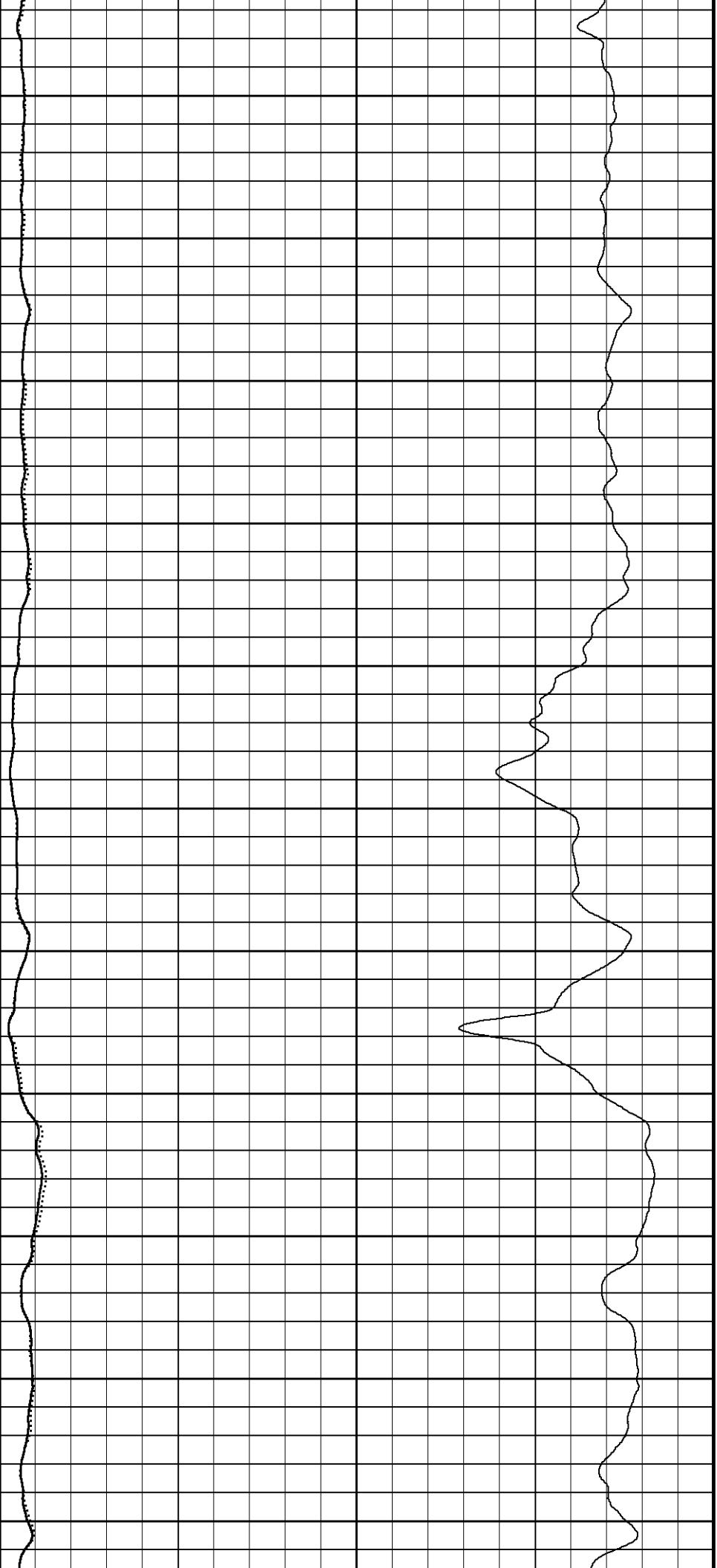
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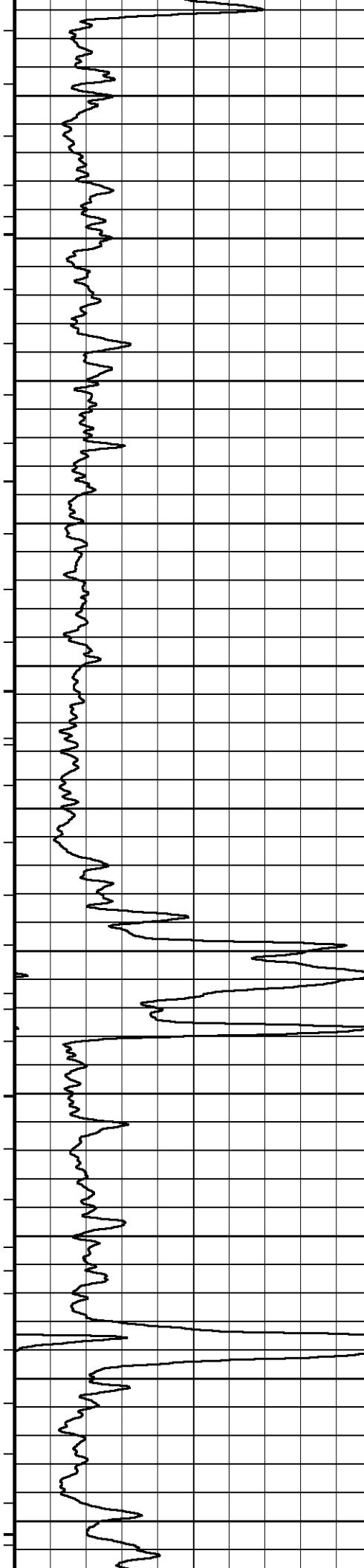
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6600

6700

6800





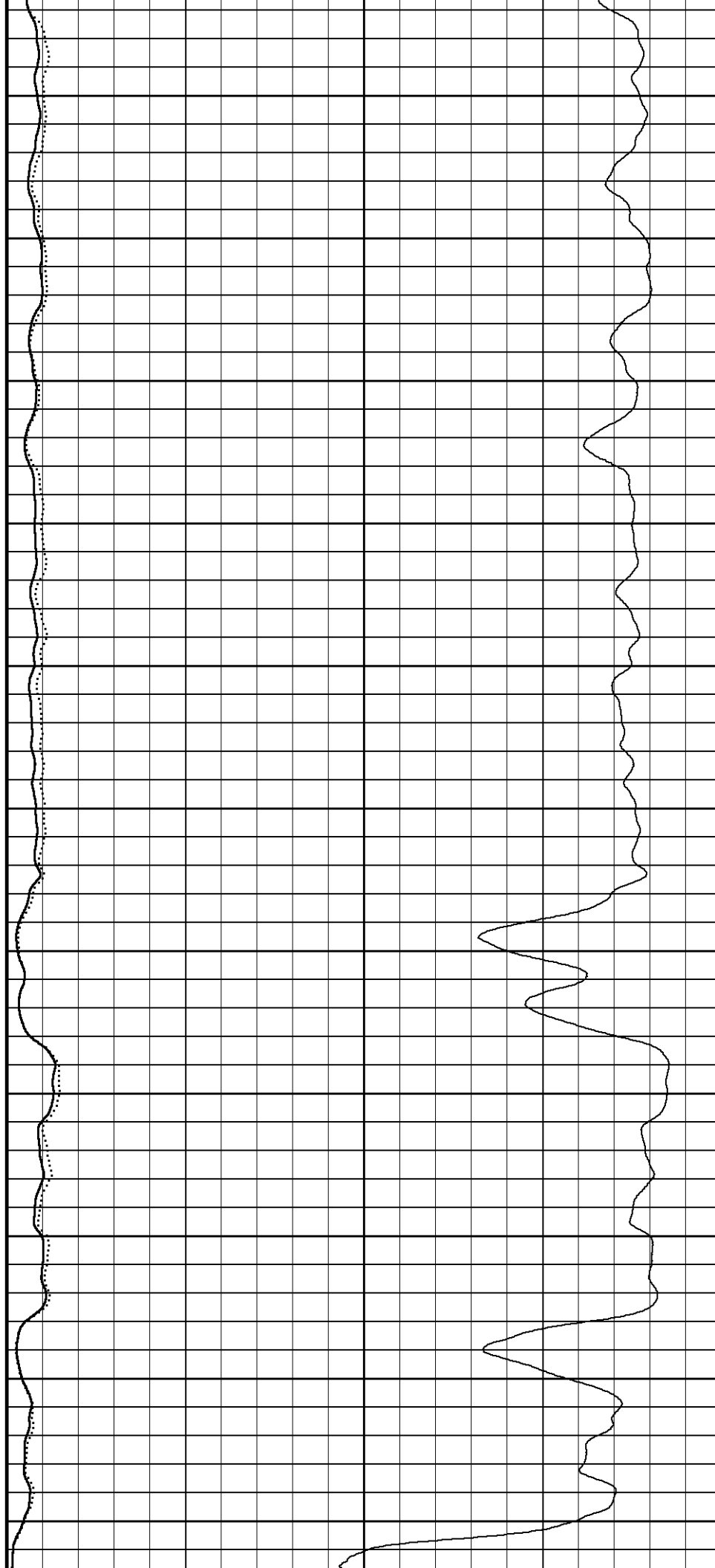
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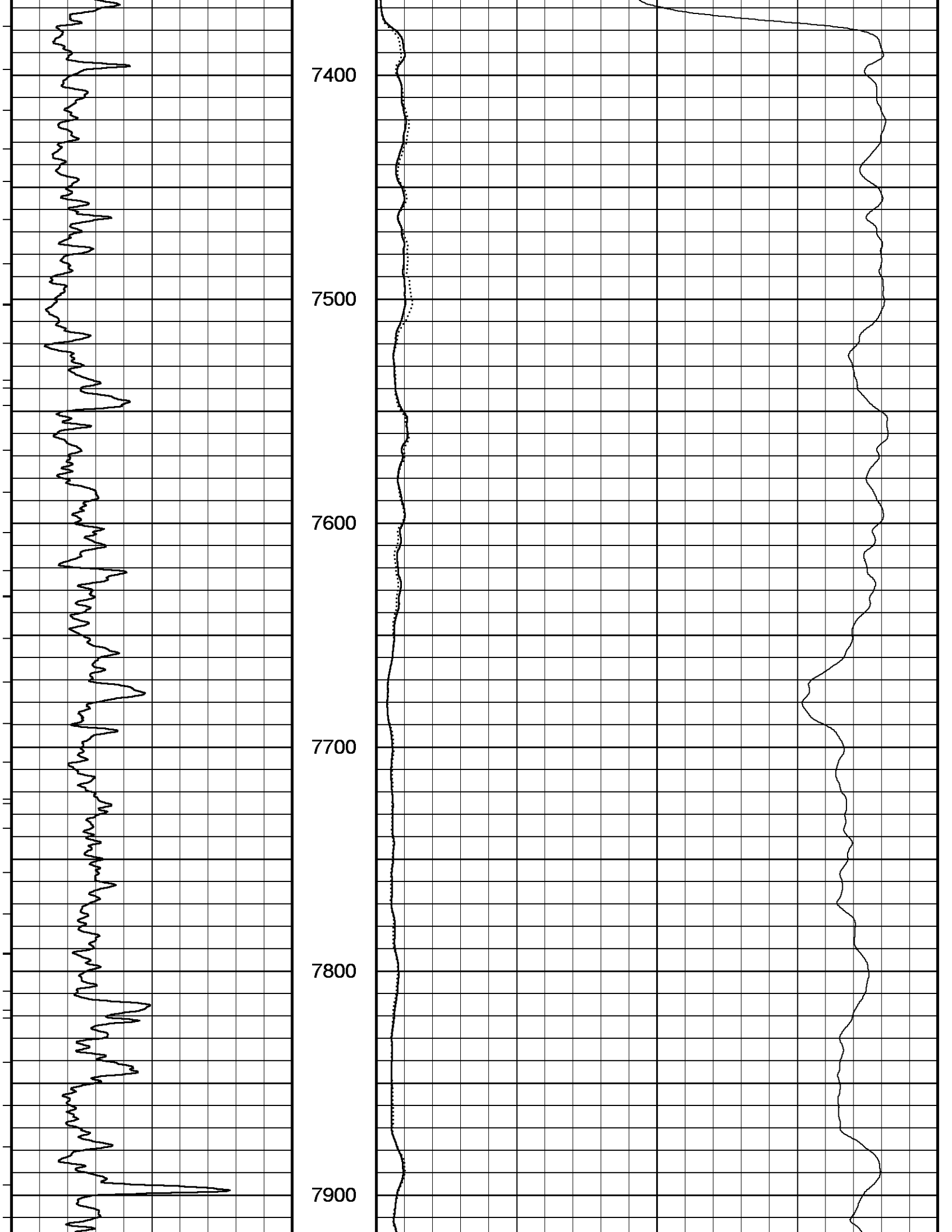
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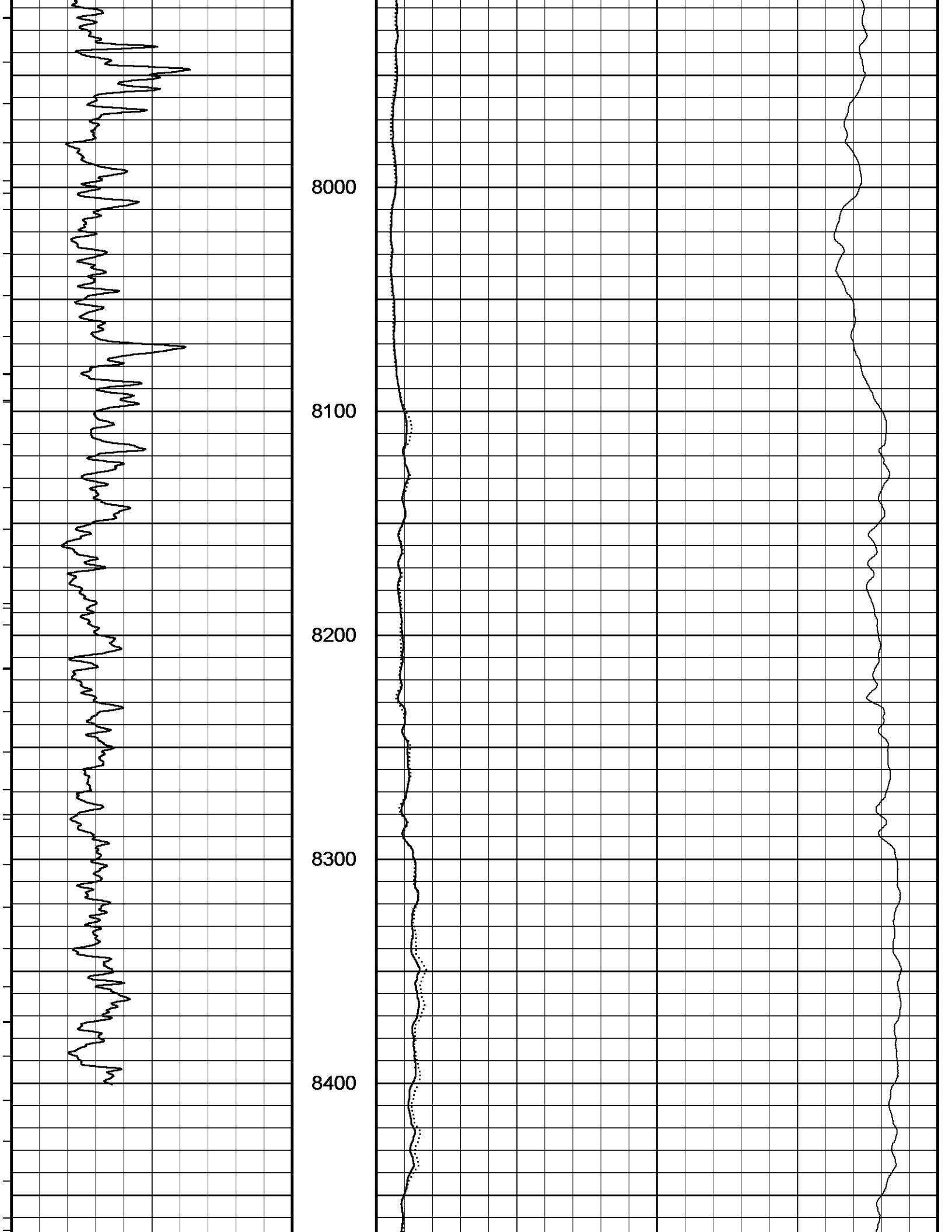
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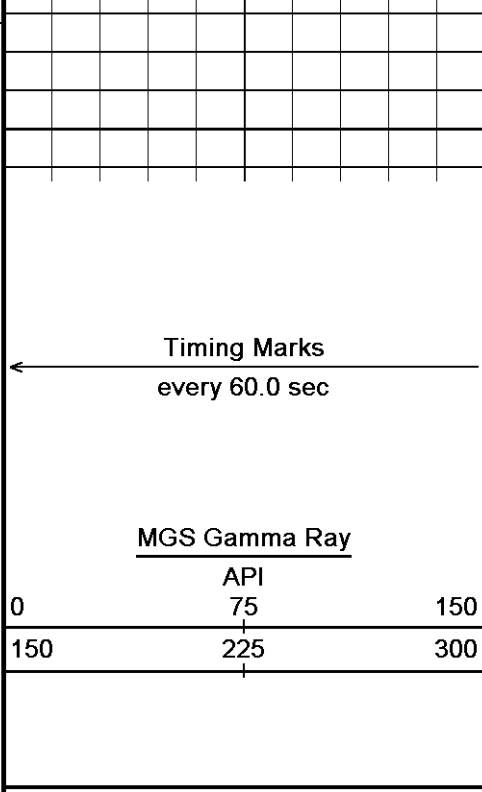
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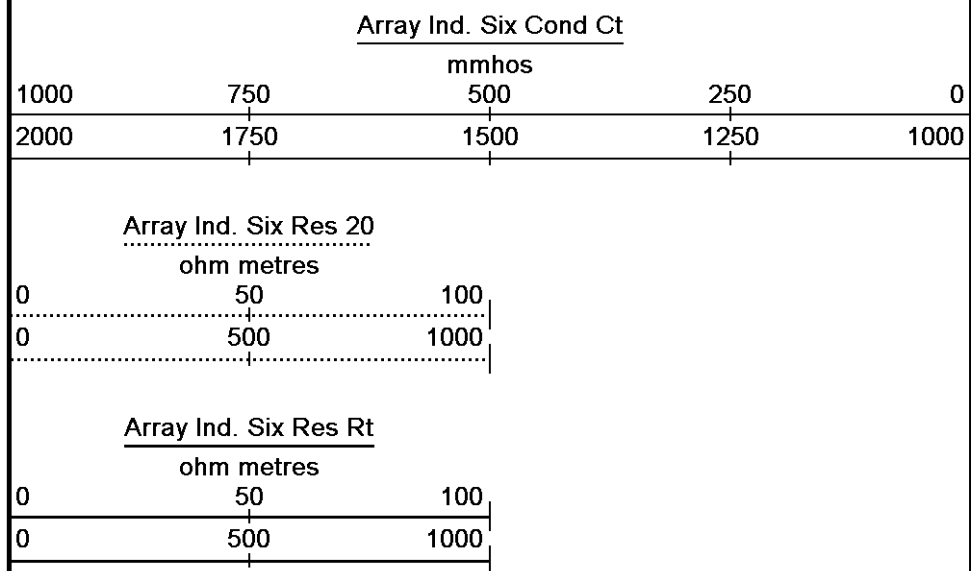








8500  
Depth In Feet

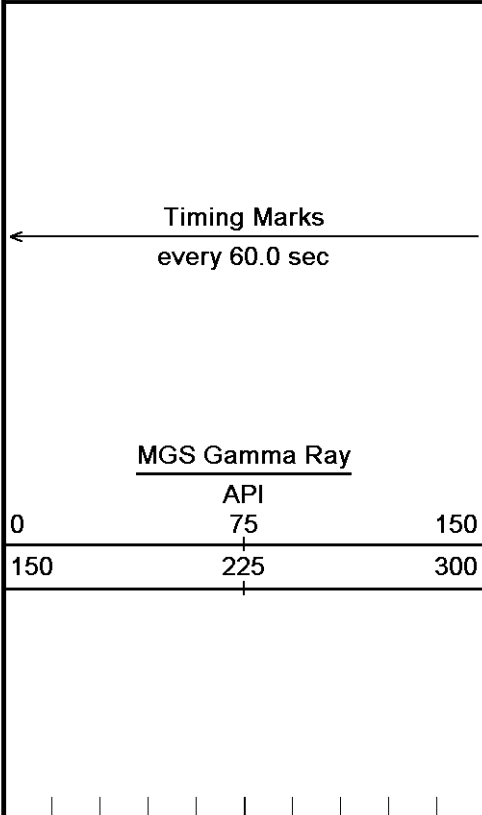


Replay Scale 1:600

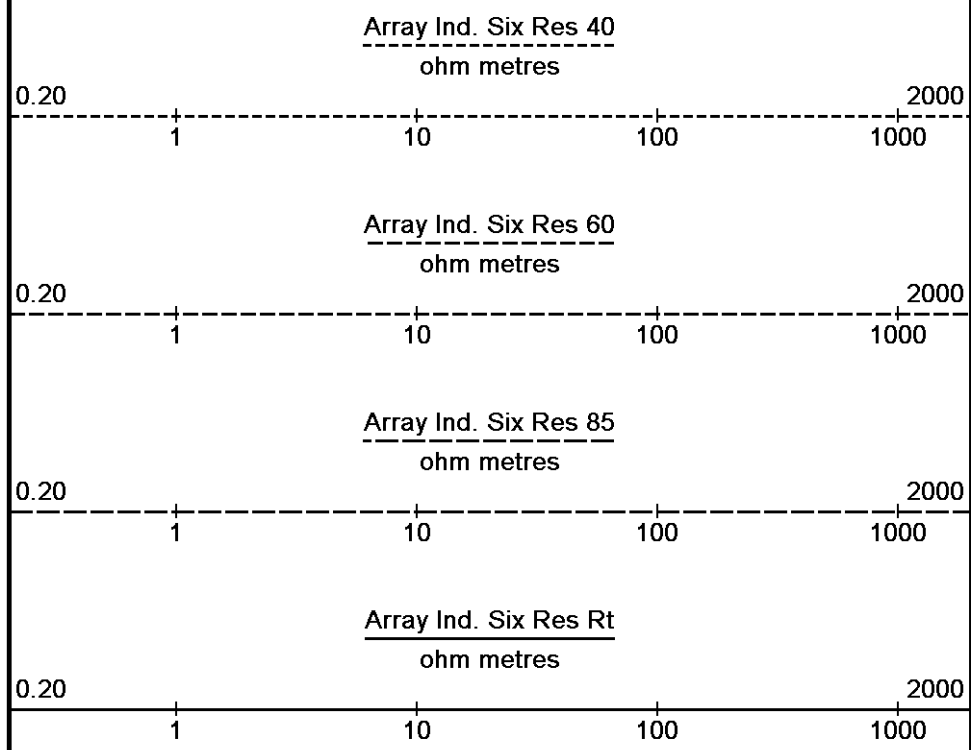
Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\Data\Unit\Unit Loudenback 7-1HMSS 166 Depth Log2.dta  
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779  
 Plotted on 03-AUG-2013 11:13  
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↑ DSC ↑

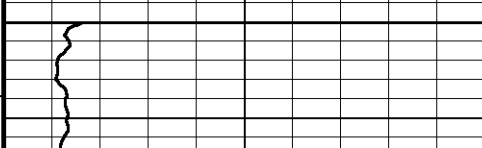
↓ DSC ↓  
 Depth Based Data - Maximum Sampling Increment 10.0cm  
 Filename: C:\Data\Unit\Unit Loudenback 7-1HMSS 166 Depth Log2.dta  
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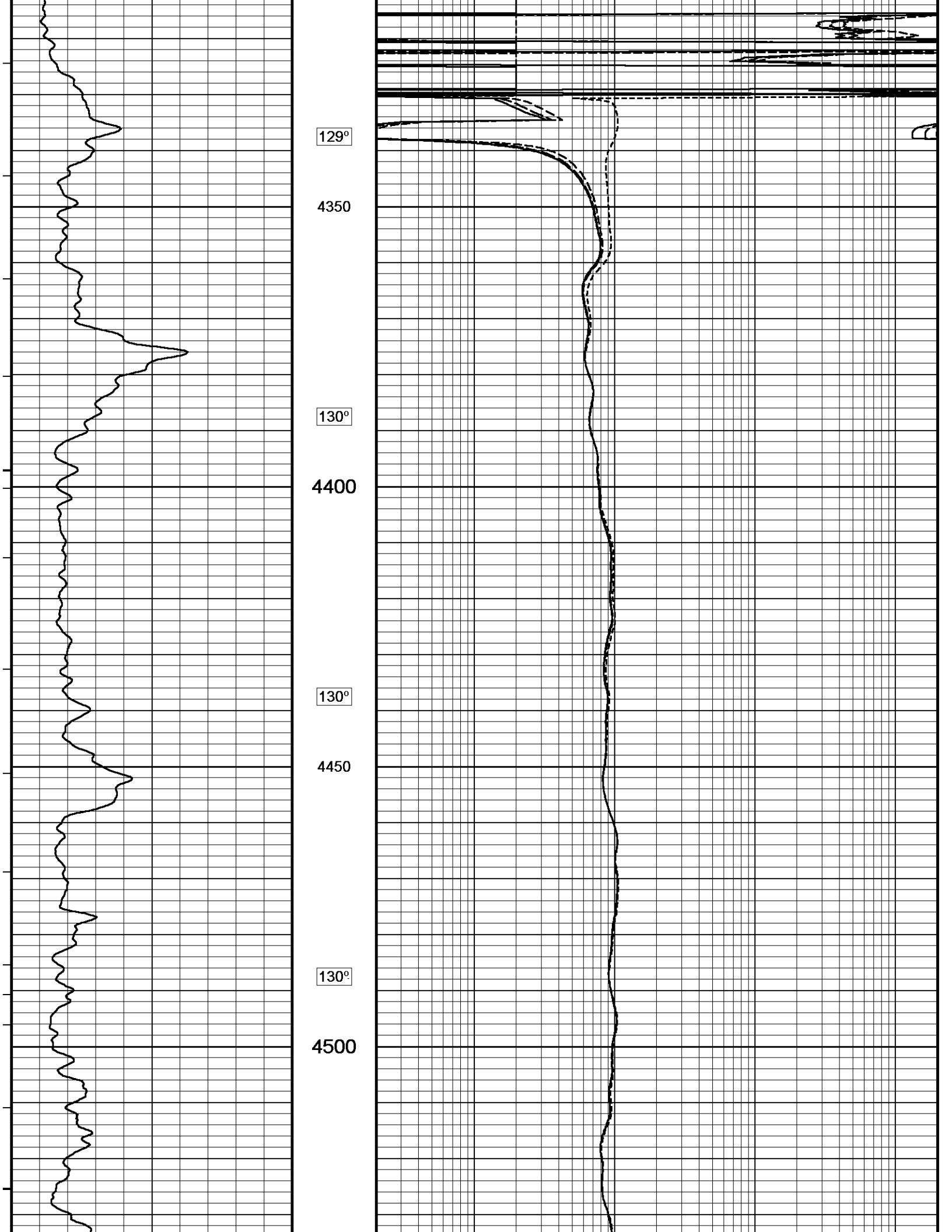


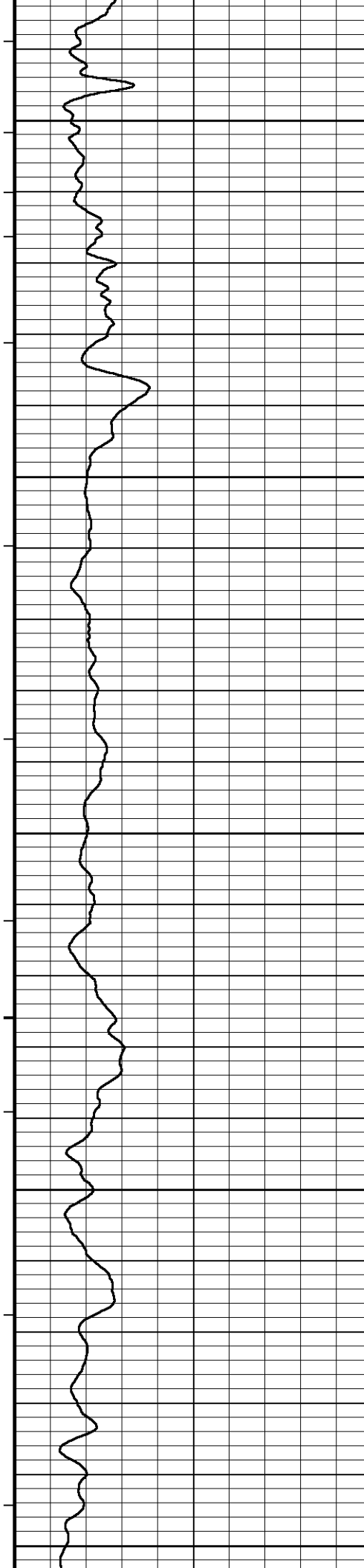
Depth In Feet  
Borehole Temp in deg F



Replay Scale 1:240







130°

4550

130°

4600

130°

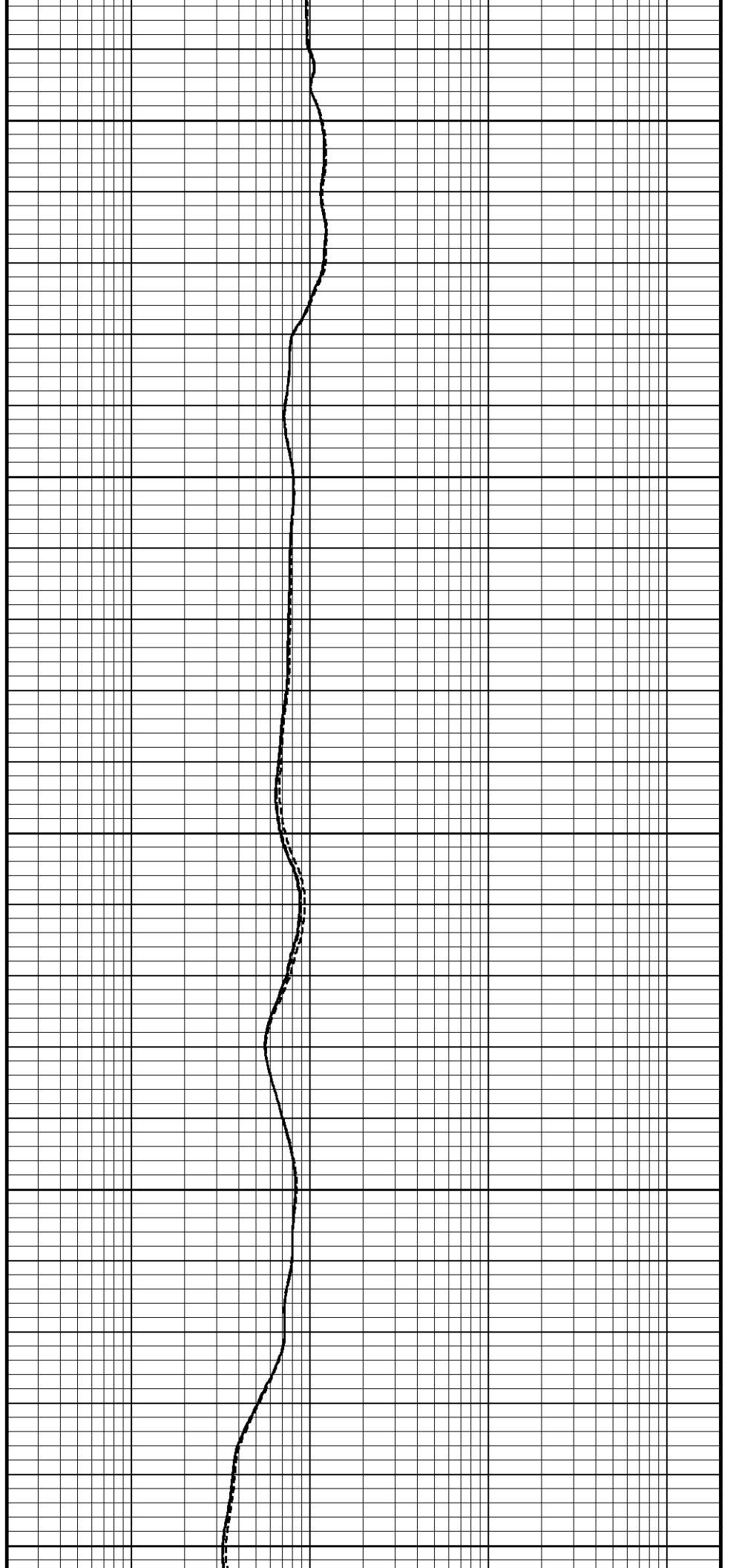
4650

130°

4700

130°

4750





130°

4800

130°

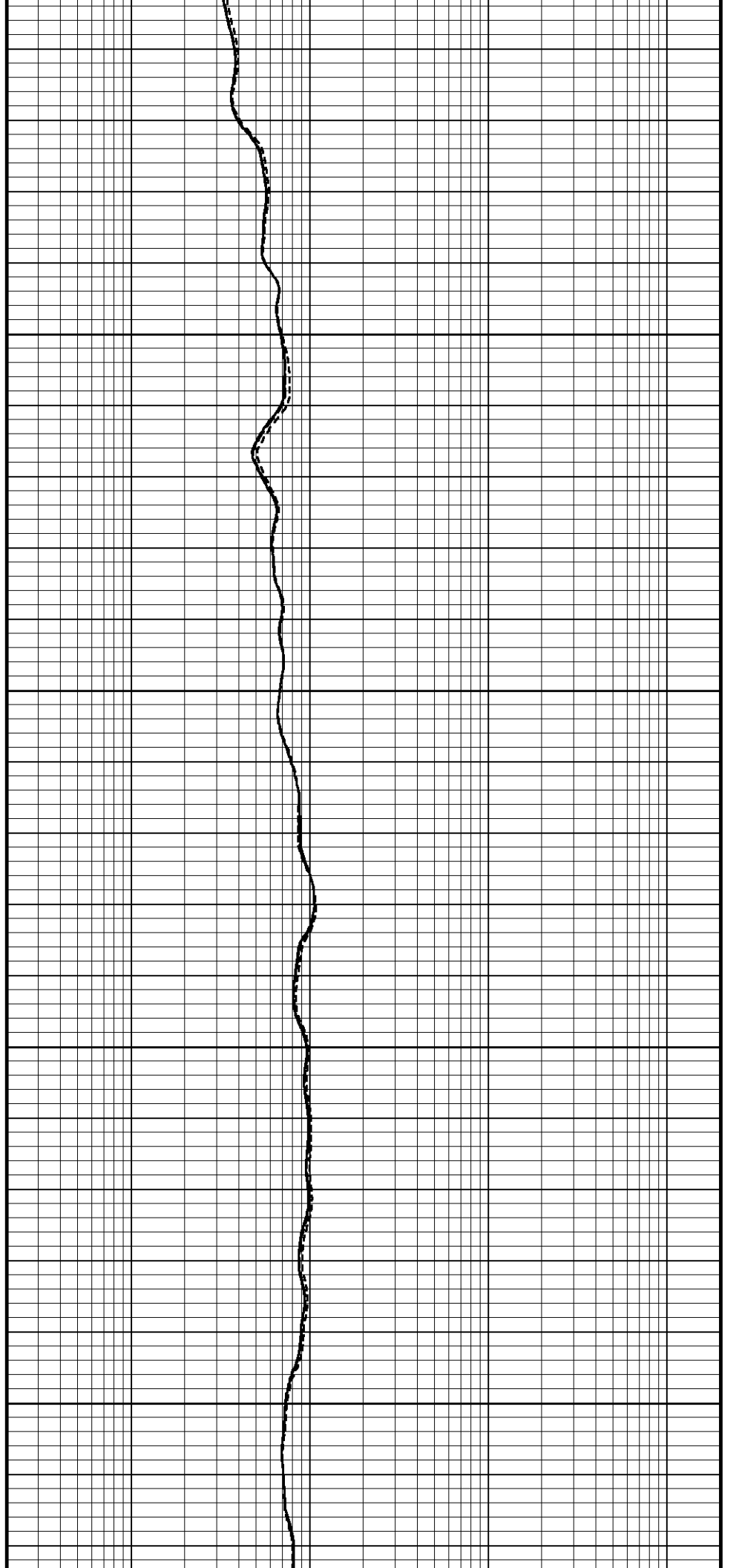
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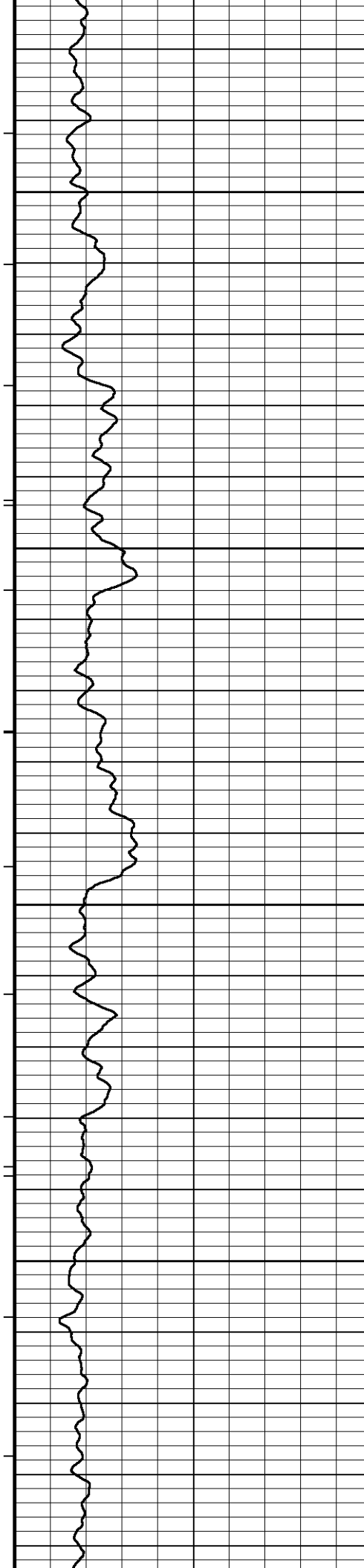
130°

4900

130°

4950





130°

5000

130°

5050

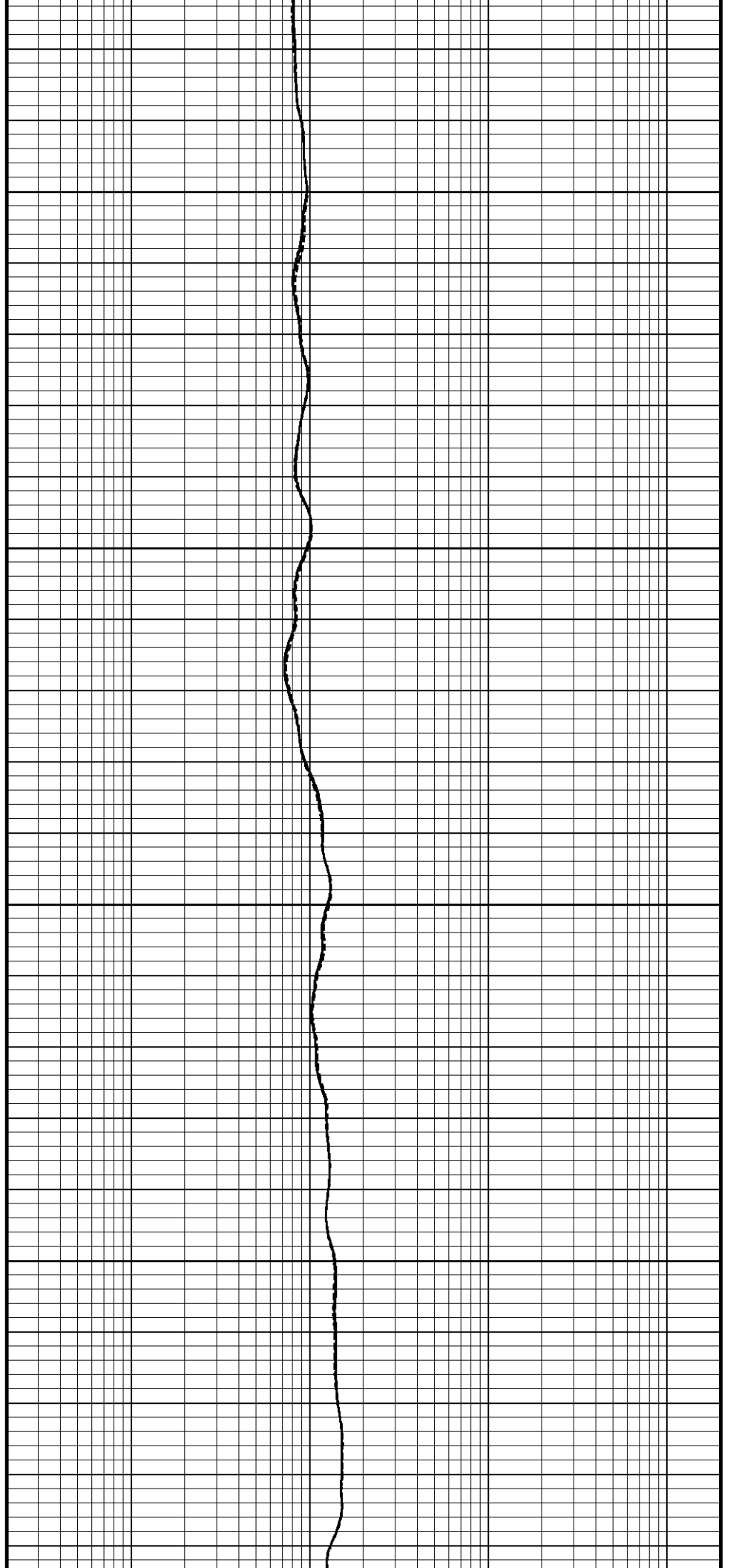
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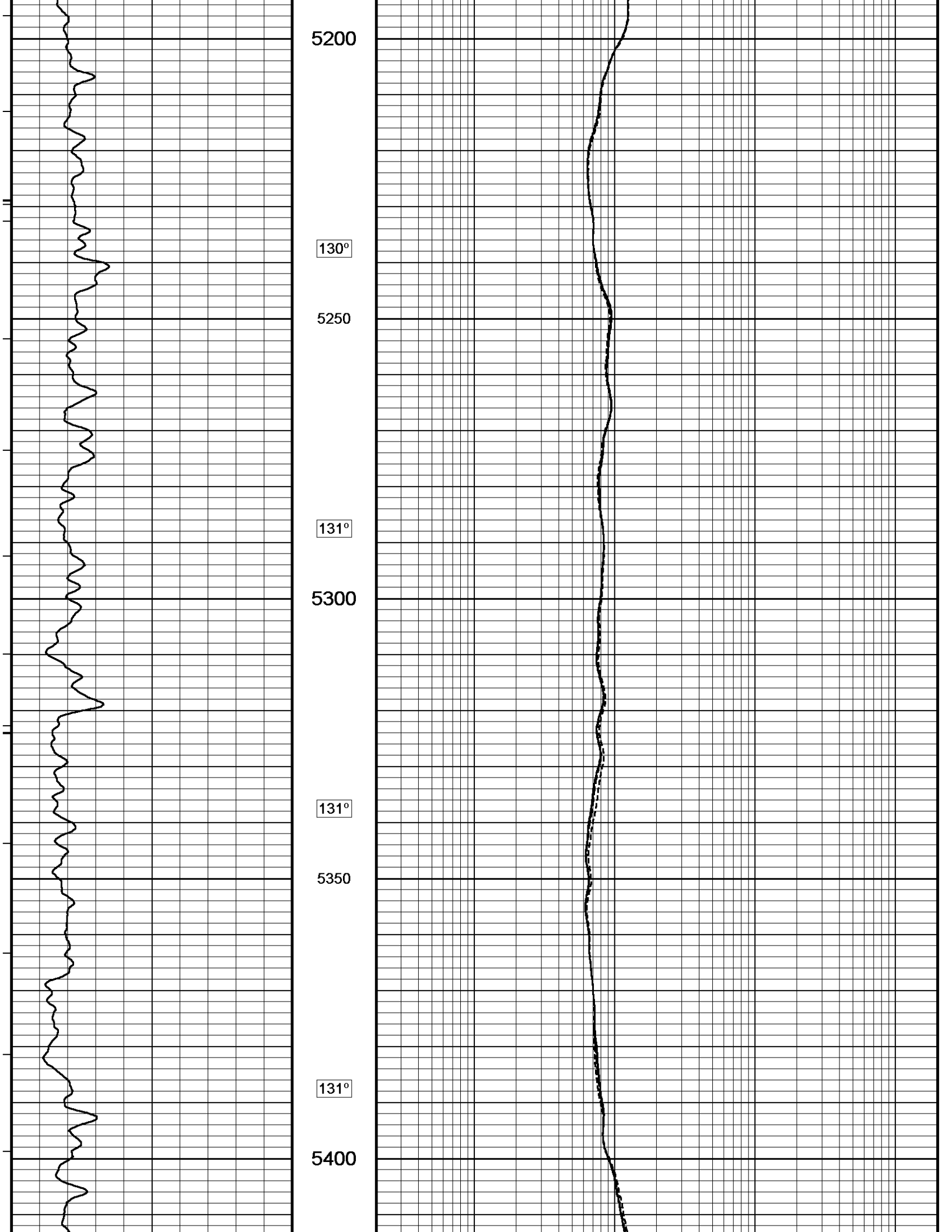
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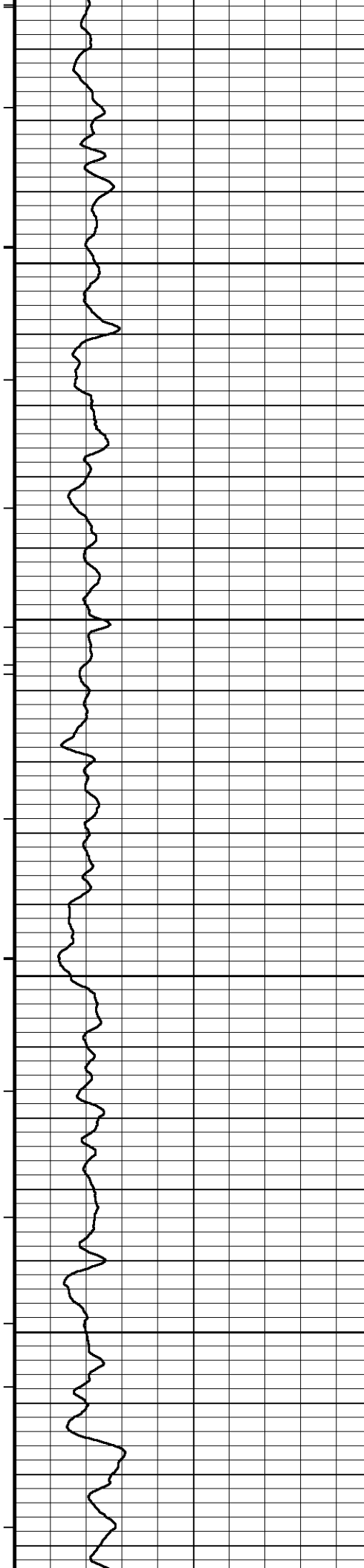
130°

5150

130°







131°

5450

131°

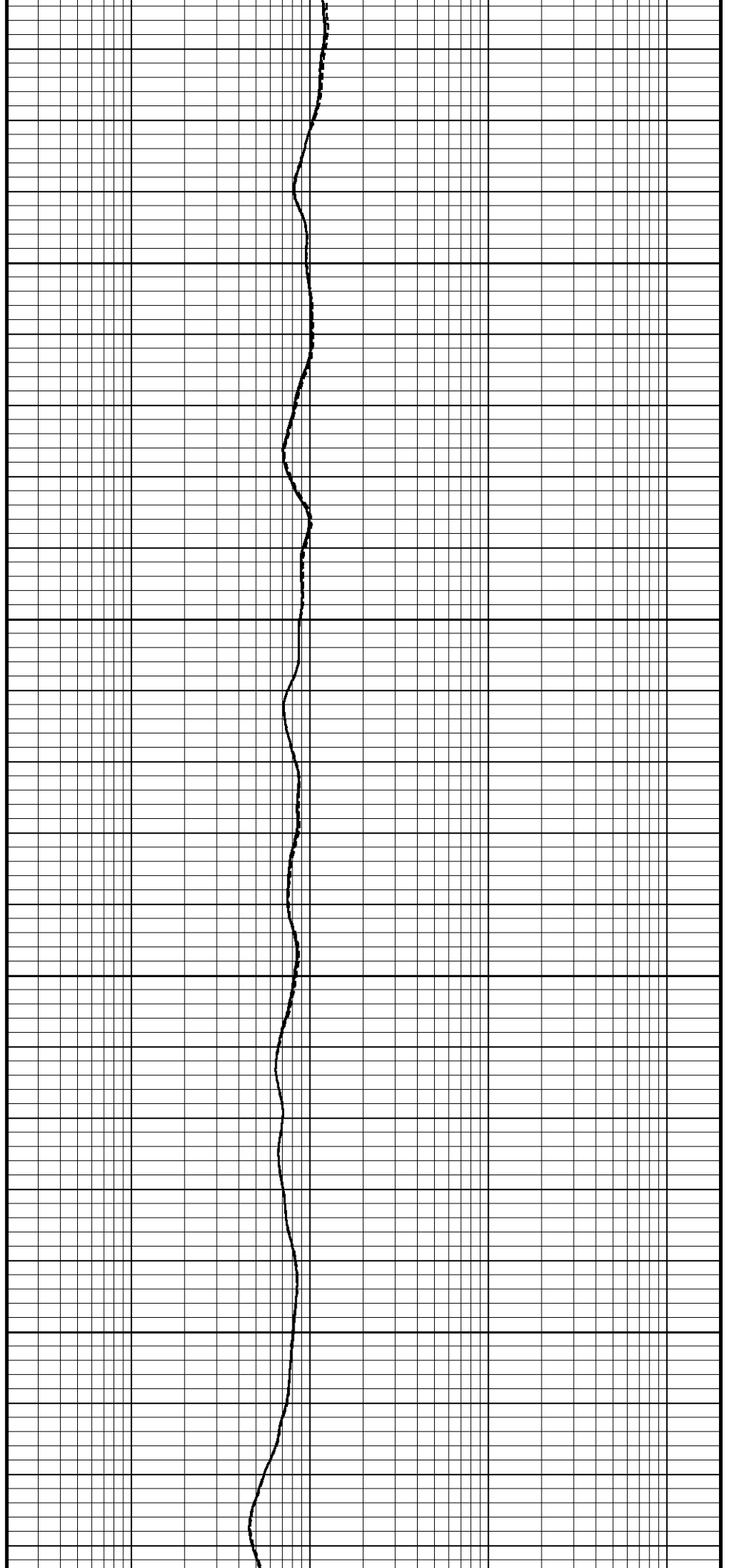
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131°

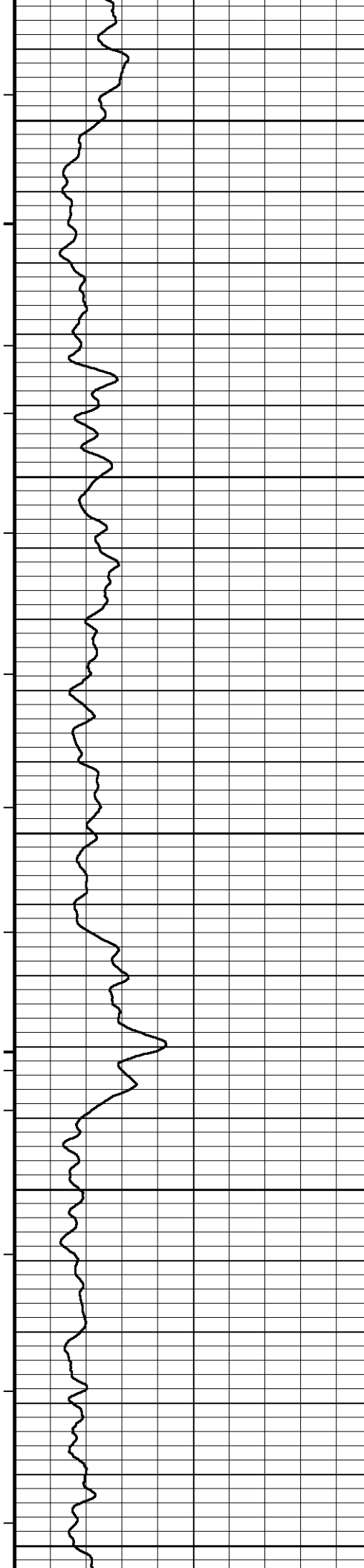
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131°

5600







131°

5650

131°

5700

131°

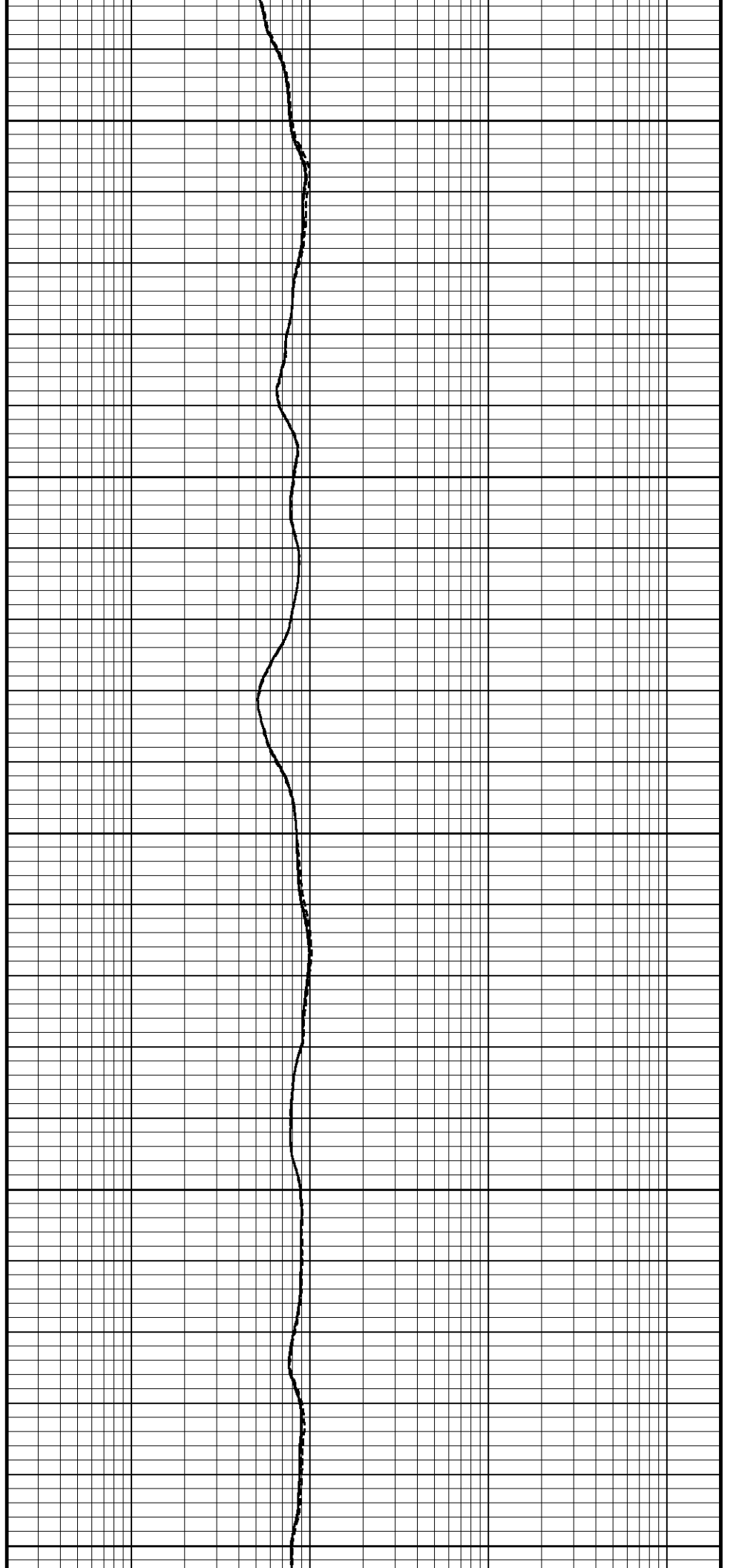
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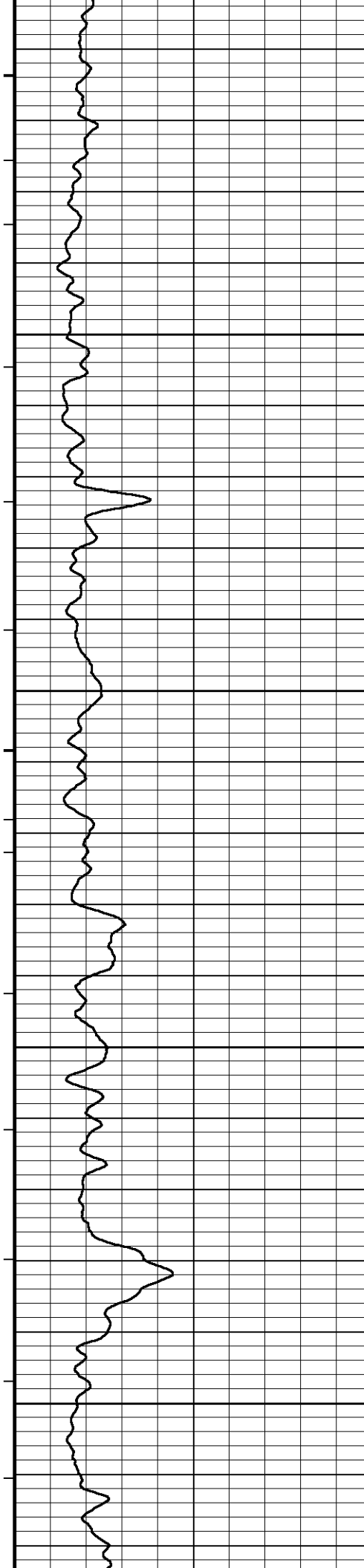
131°

5800

131°

5850





131°

5900

131°

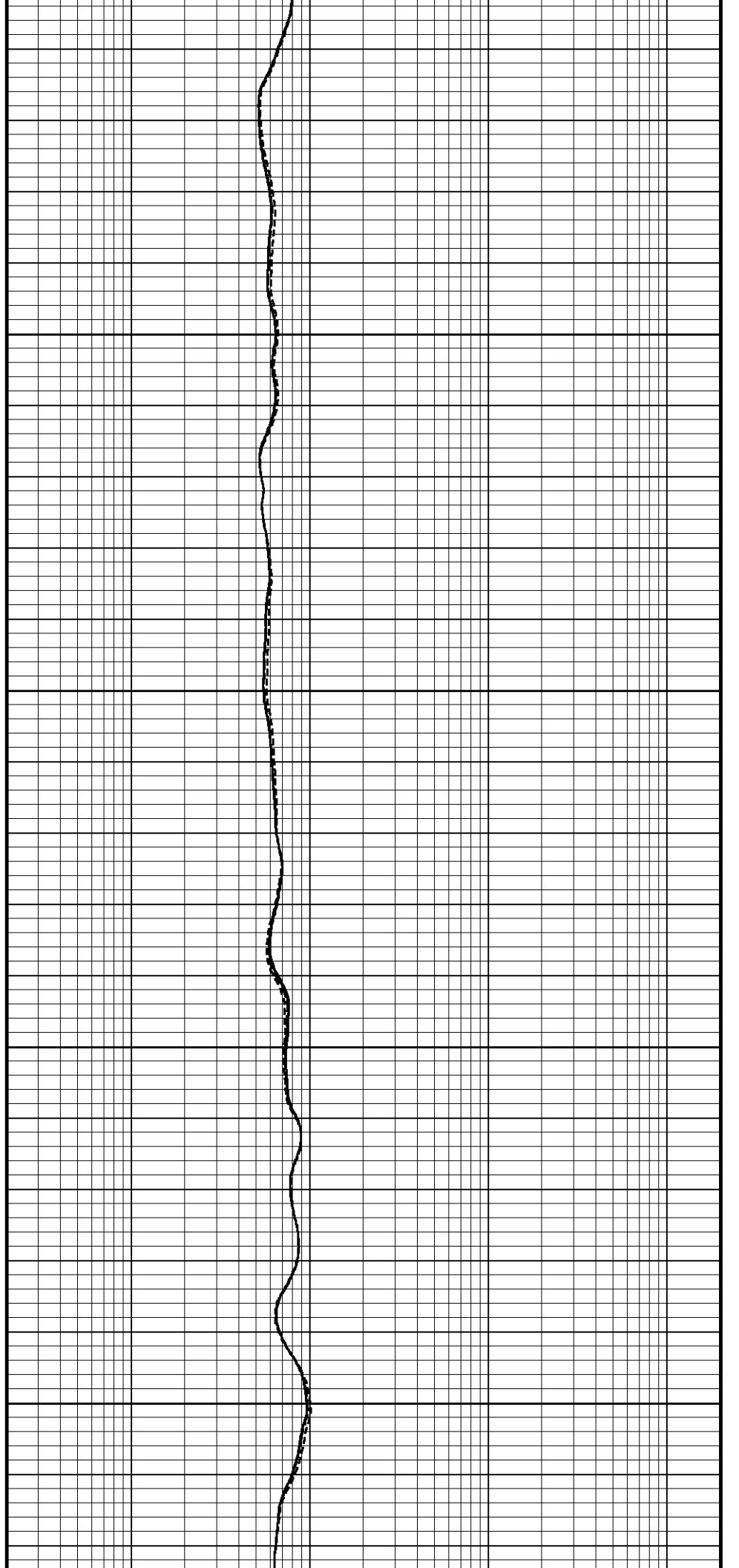
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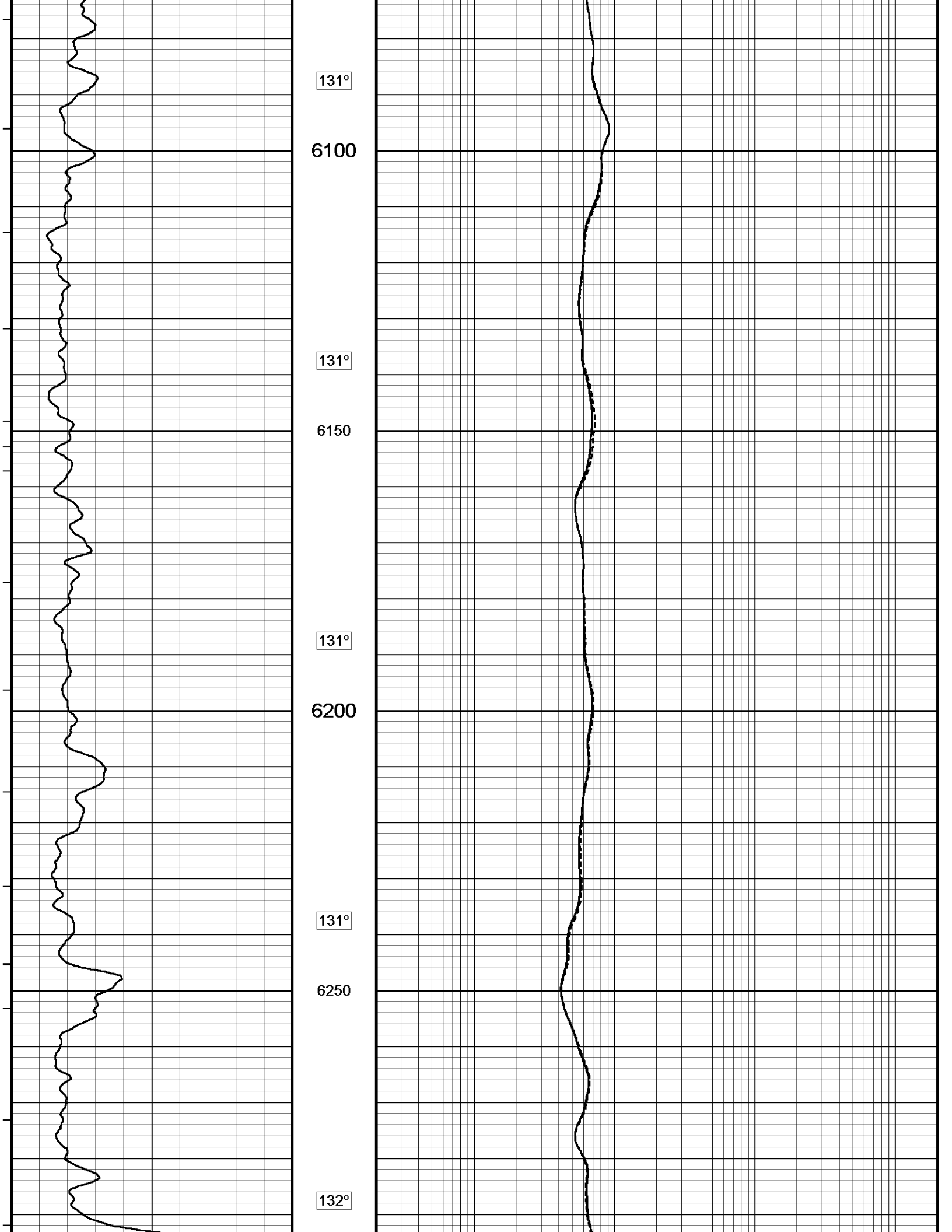
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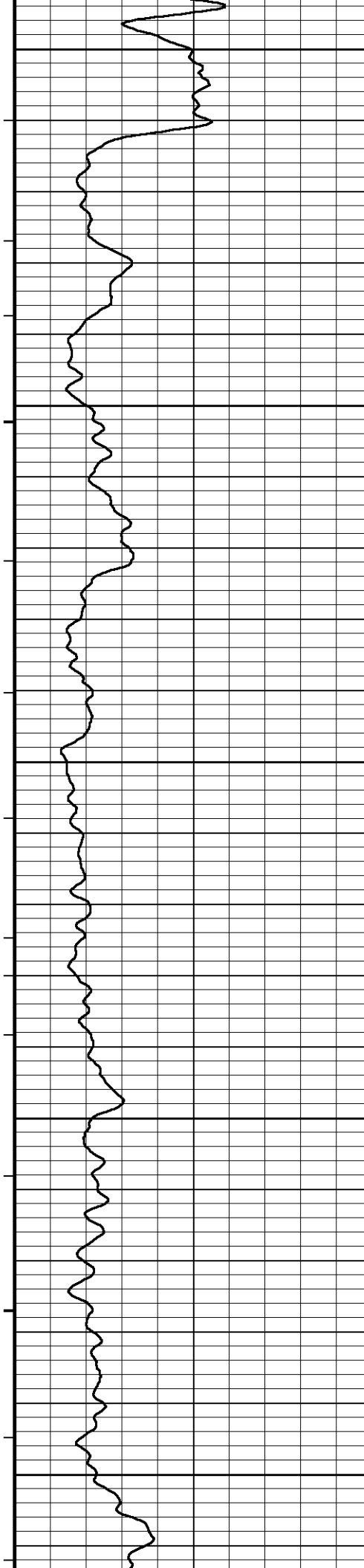
6000

131°

6050







6300

132°

6350

132°

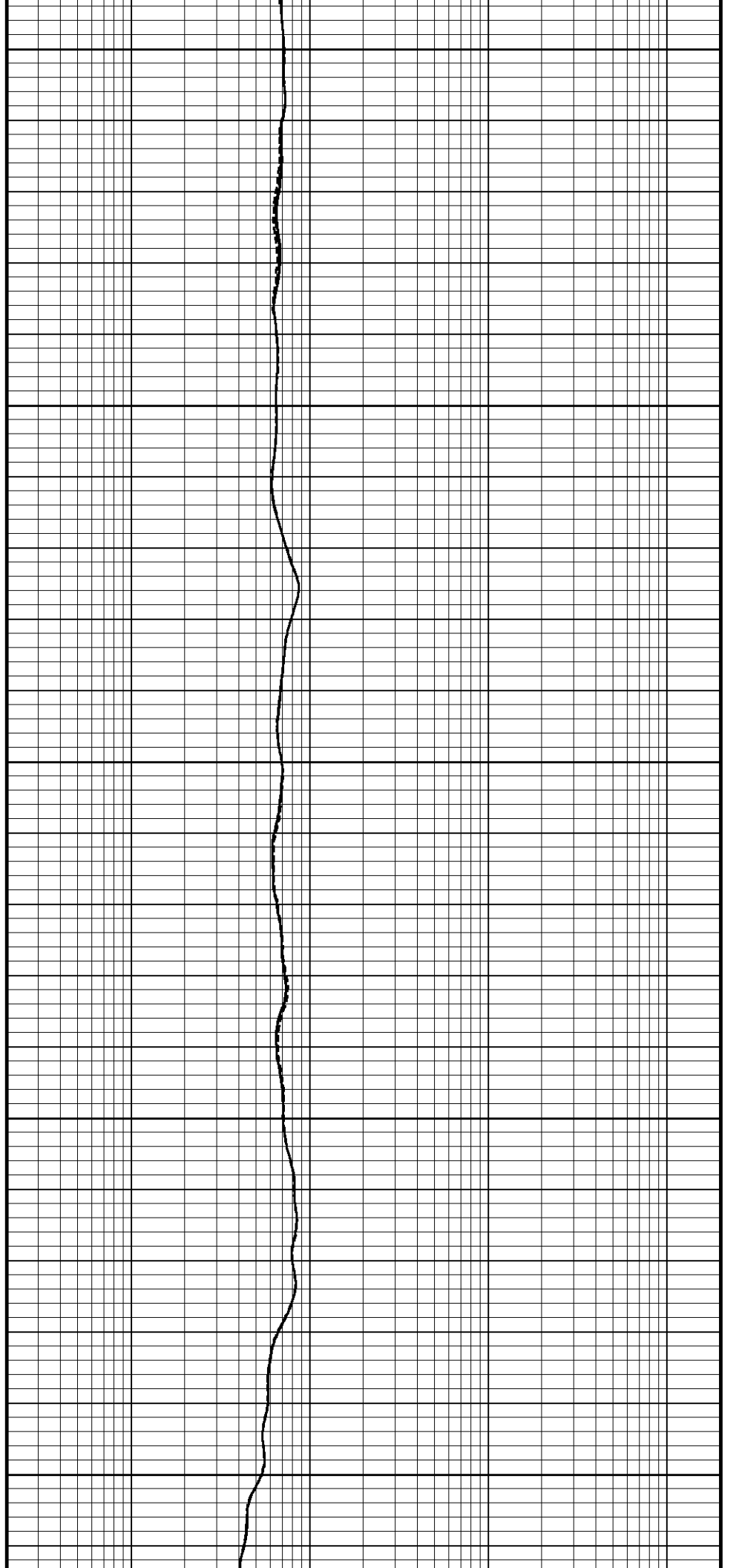
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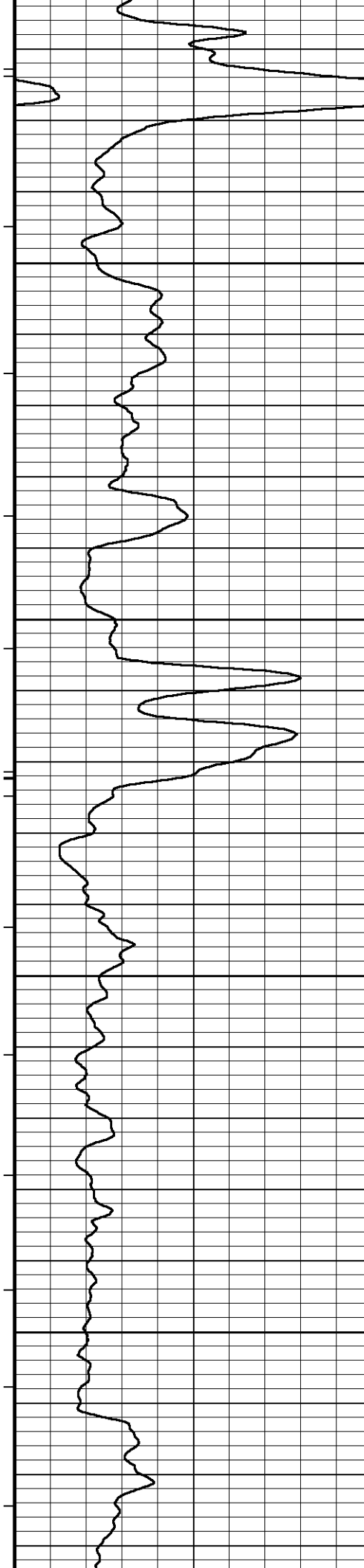
132°

6450

132°

6500





132°

6550

132°

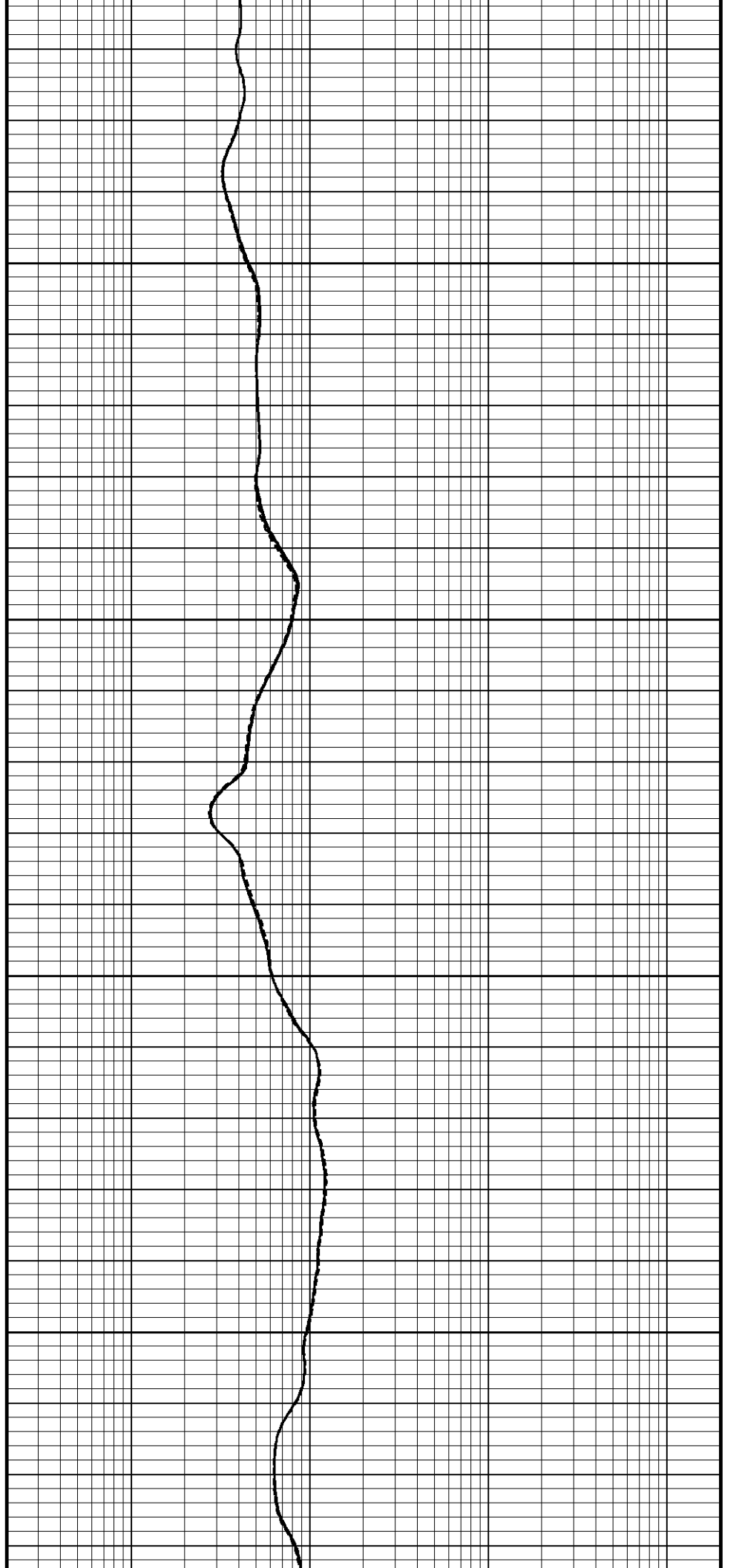
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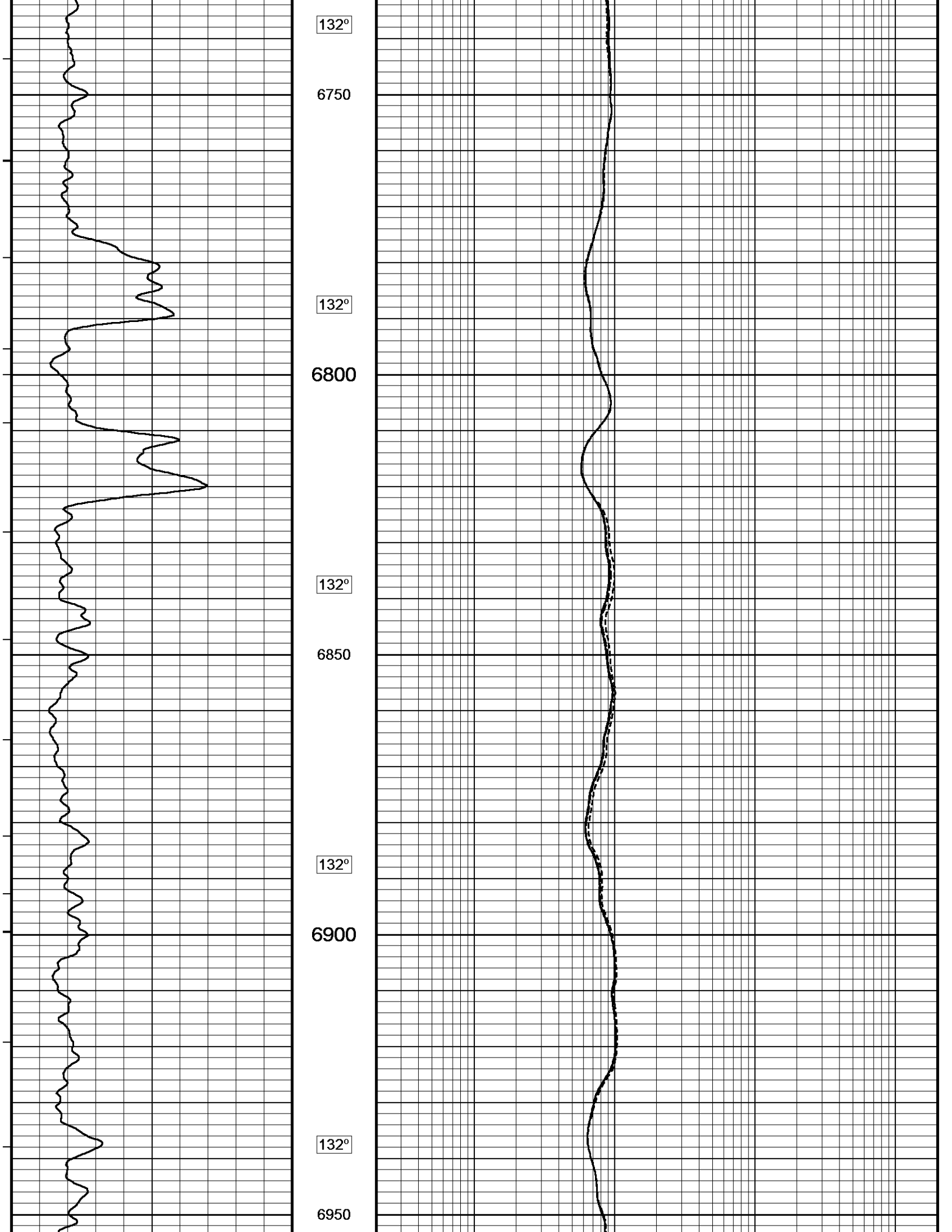
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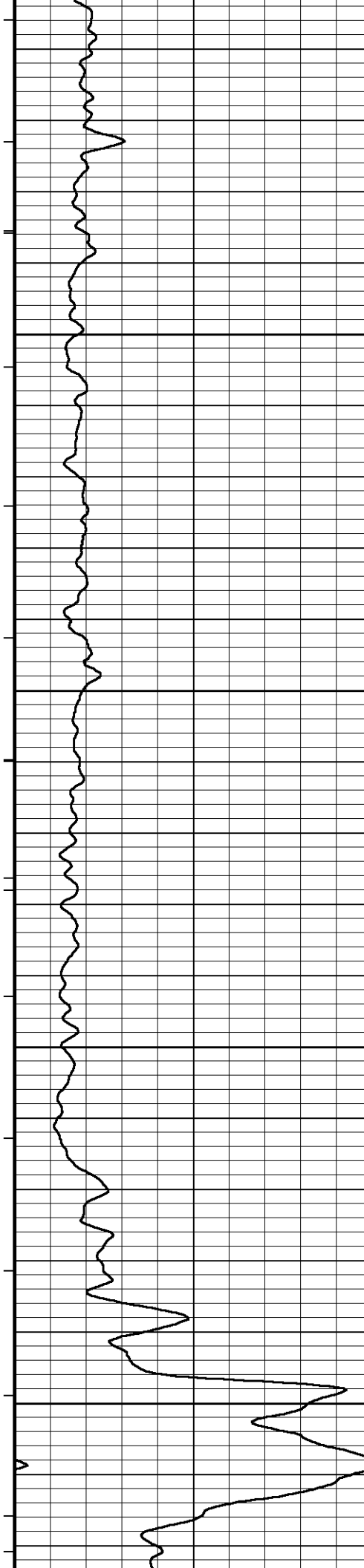
6650

132°

6700







132°

7000

132°

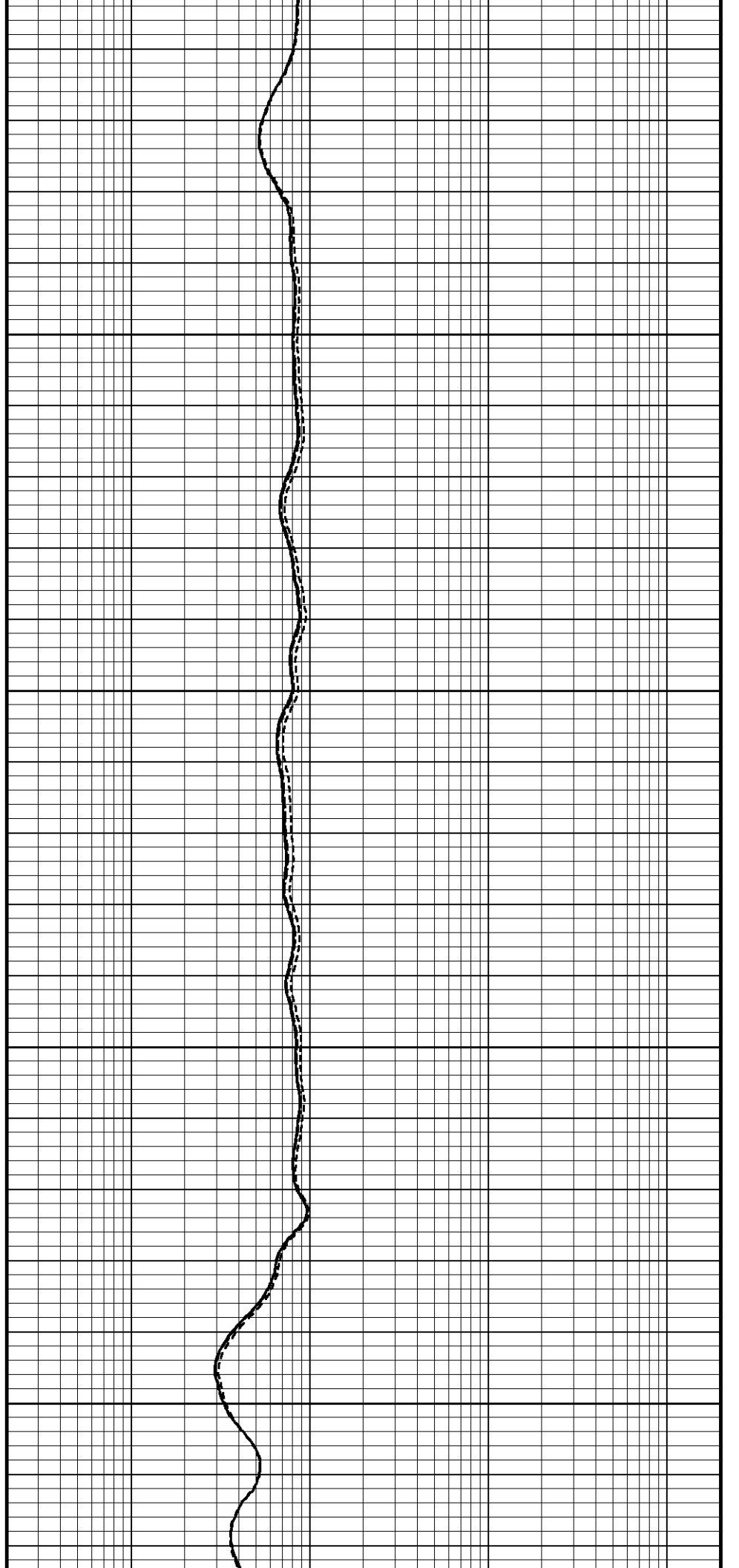
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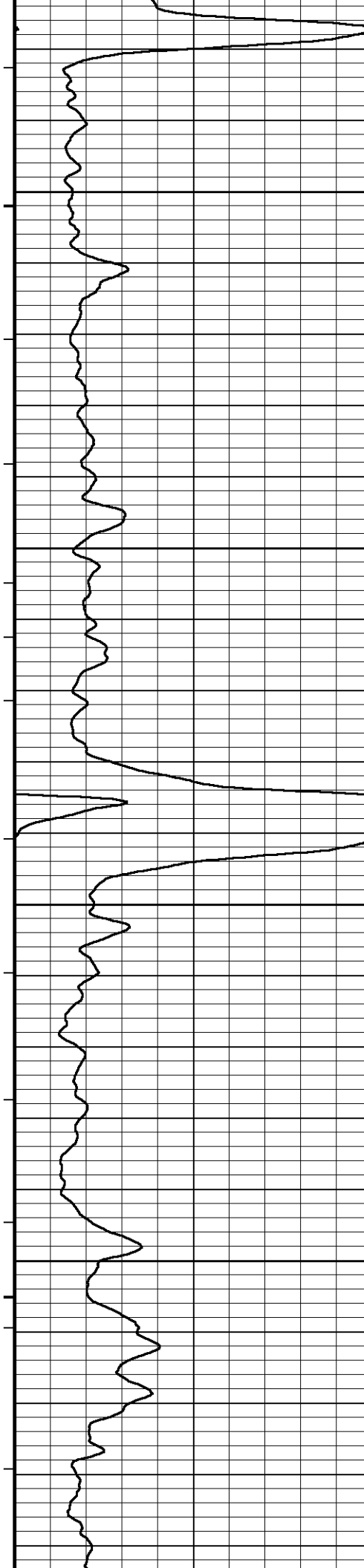
132°

7100

131°

7150





131°

7200

131°

7250

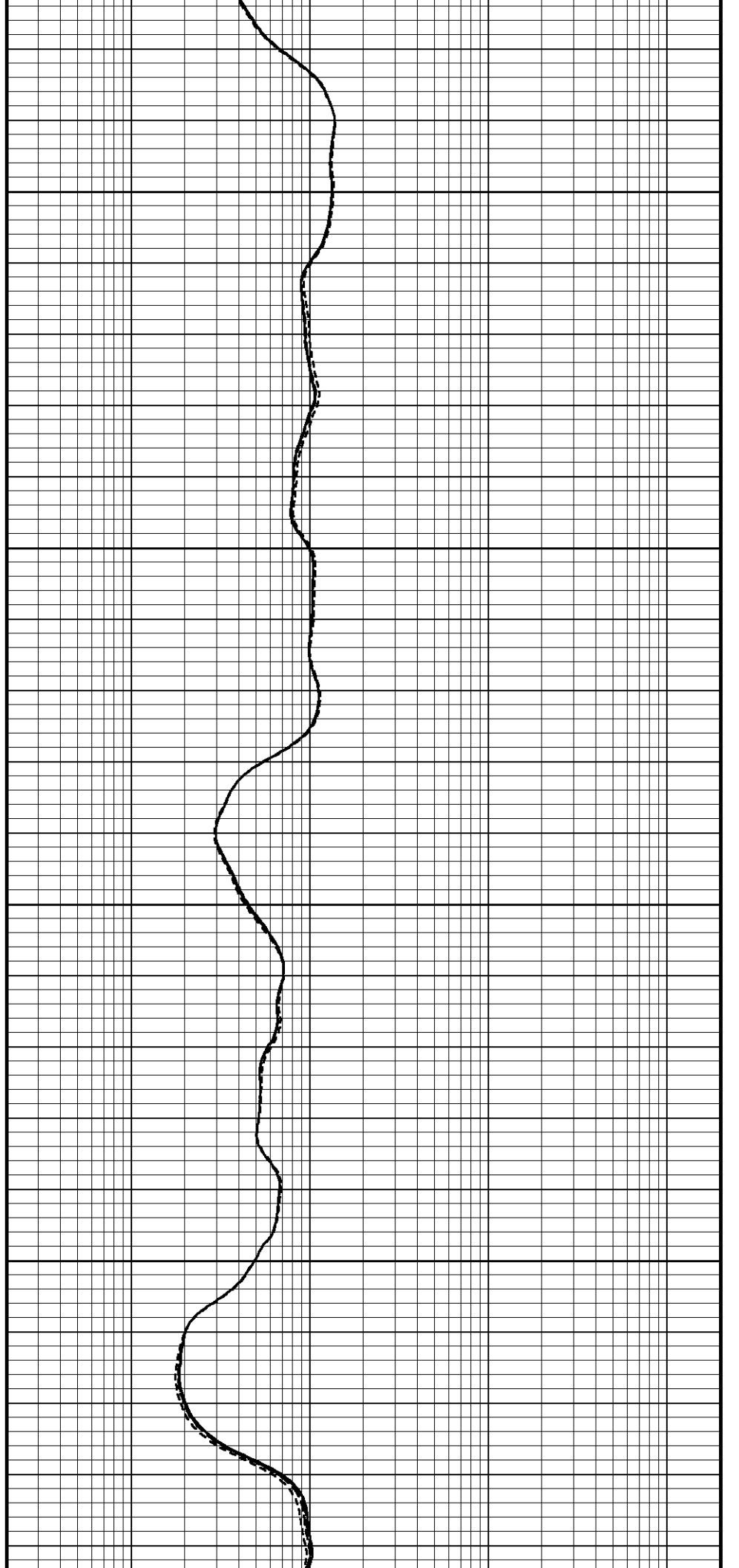
131°

7300

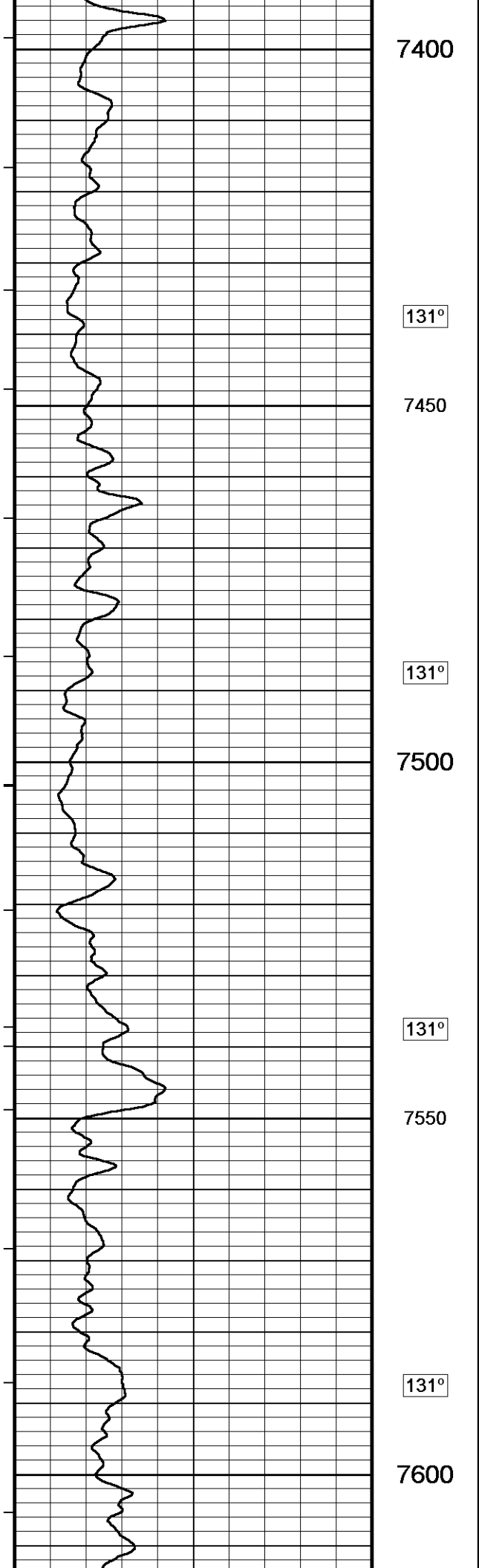
131°

7350

131°





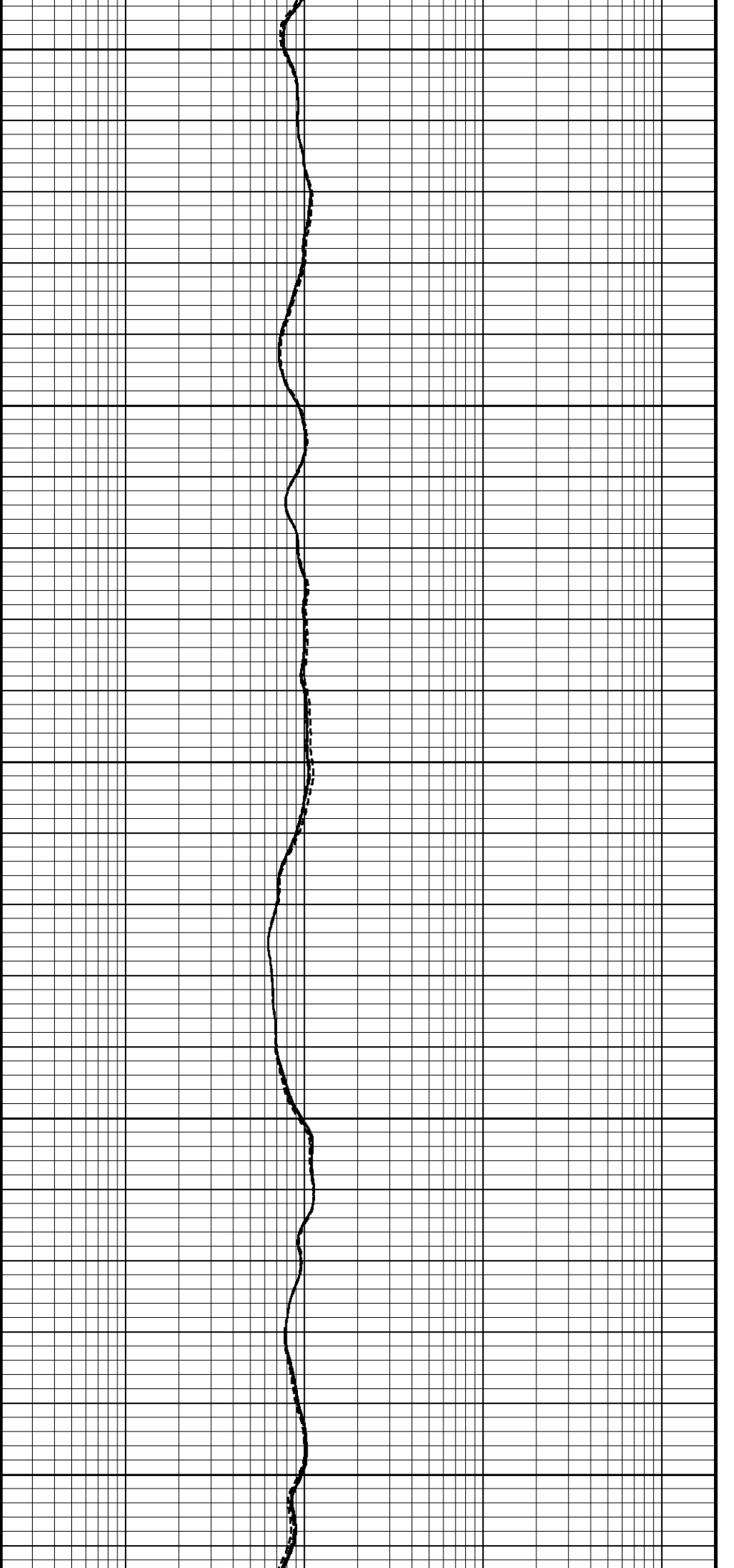


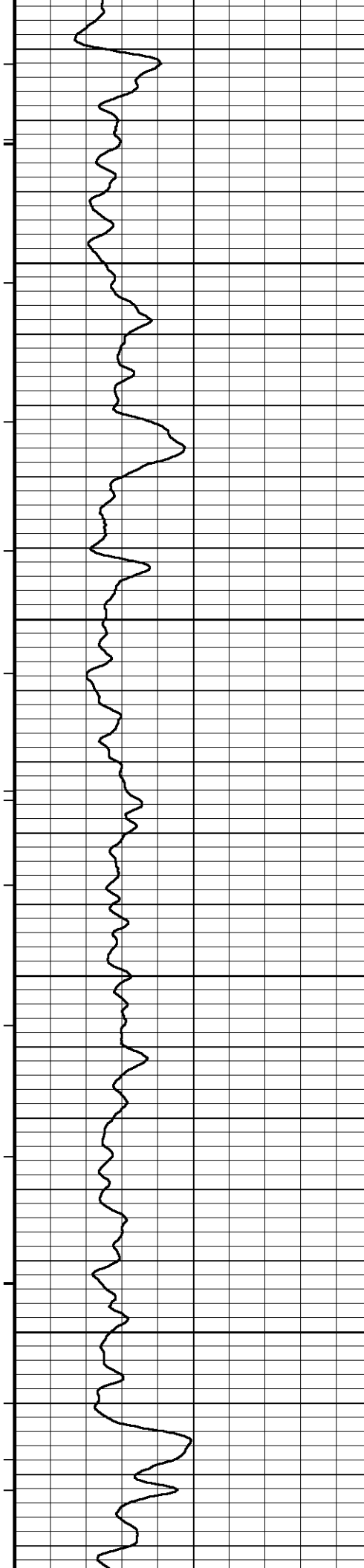
131°

131°

131°

131°





131°

7650

131°

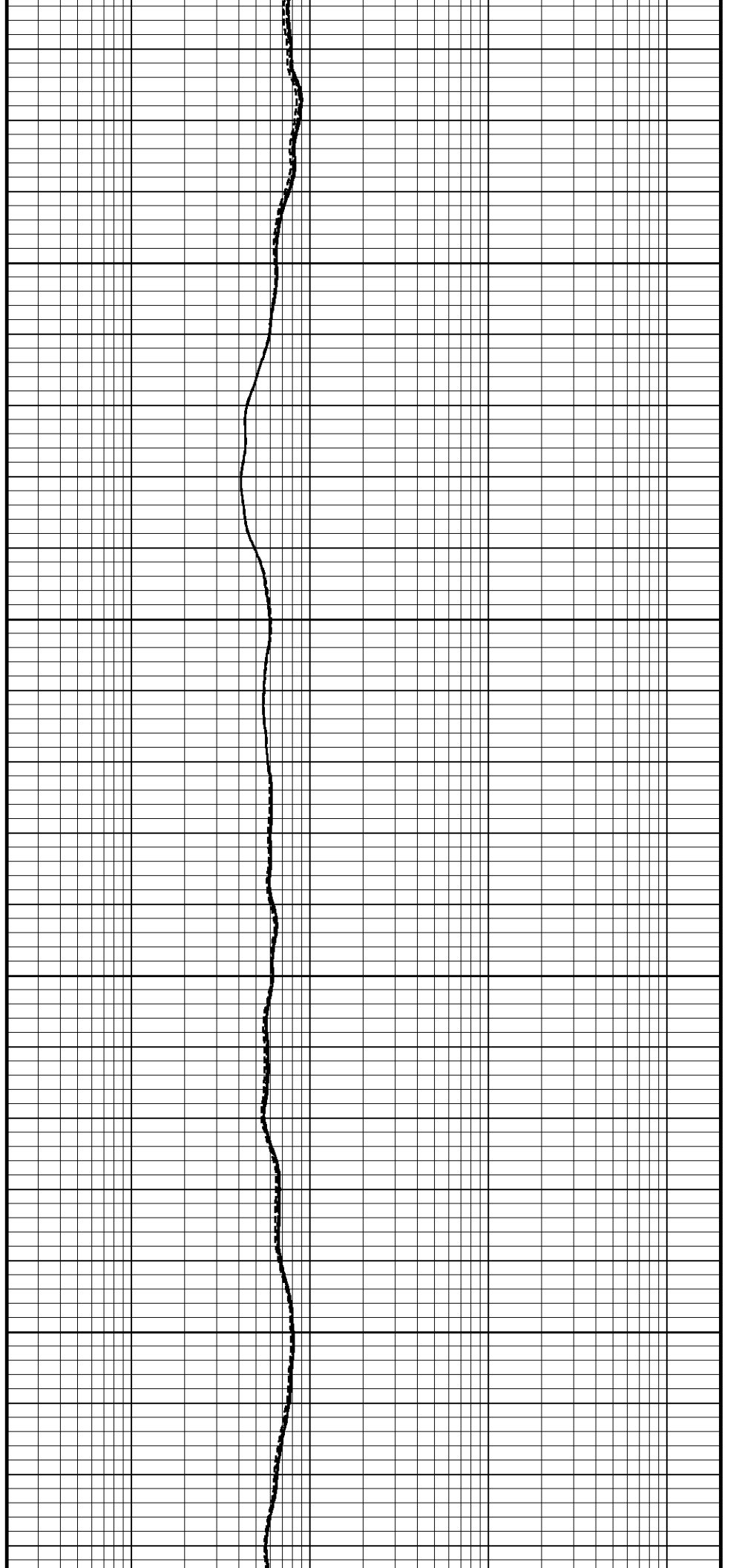
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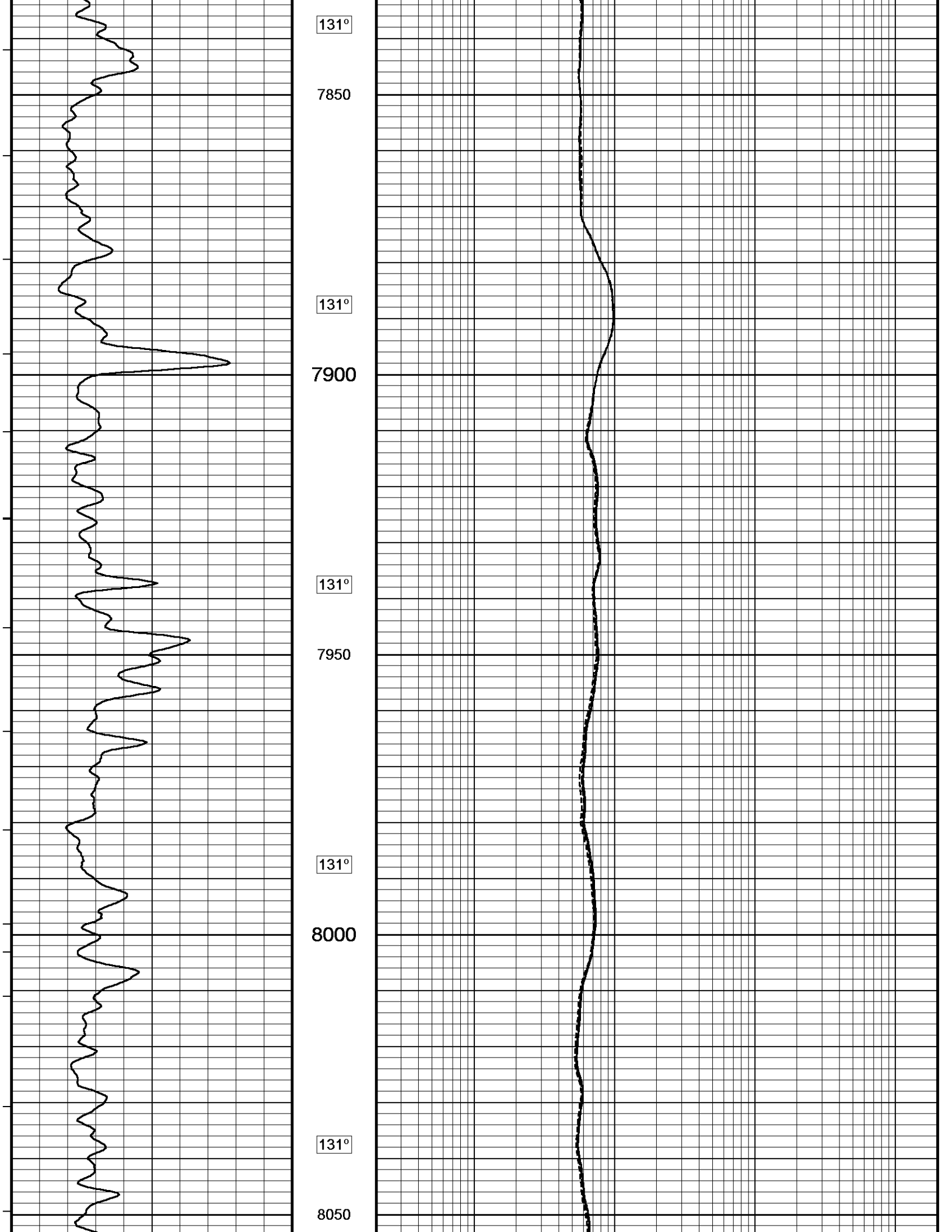
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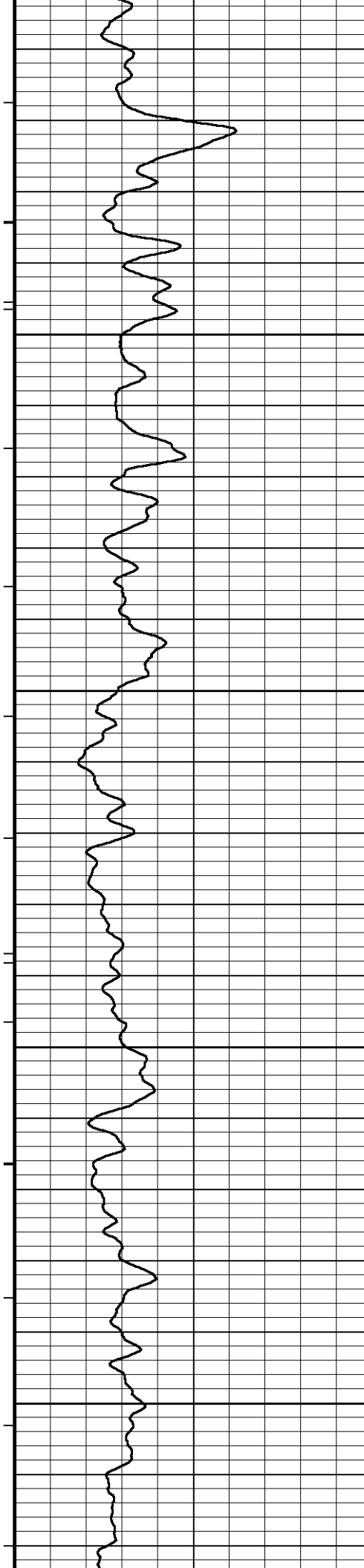
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131°

7800







131°

8100

131°

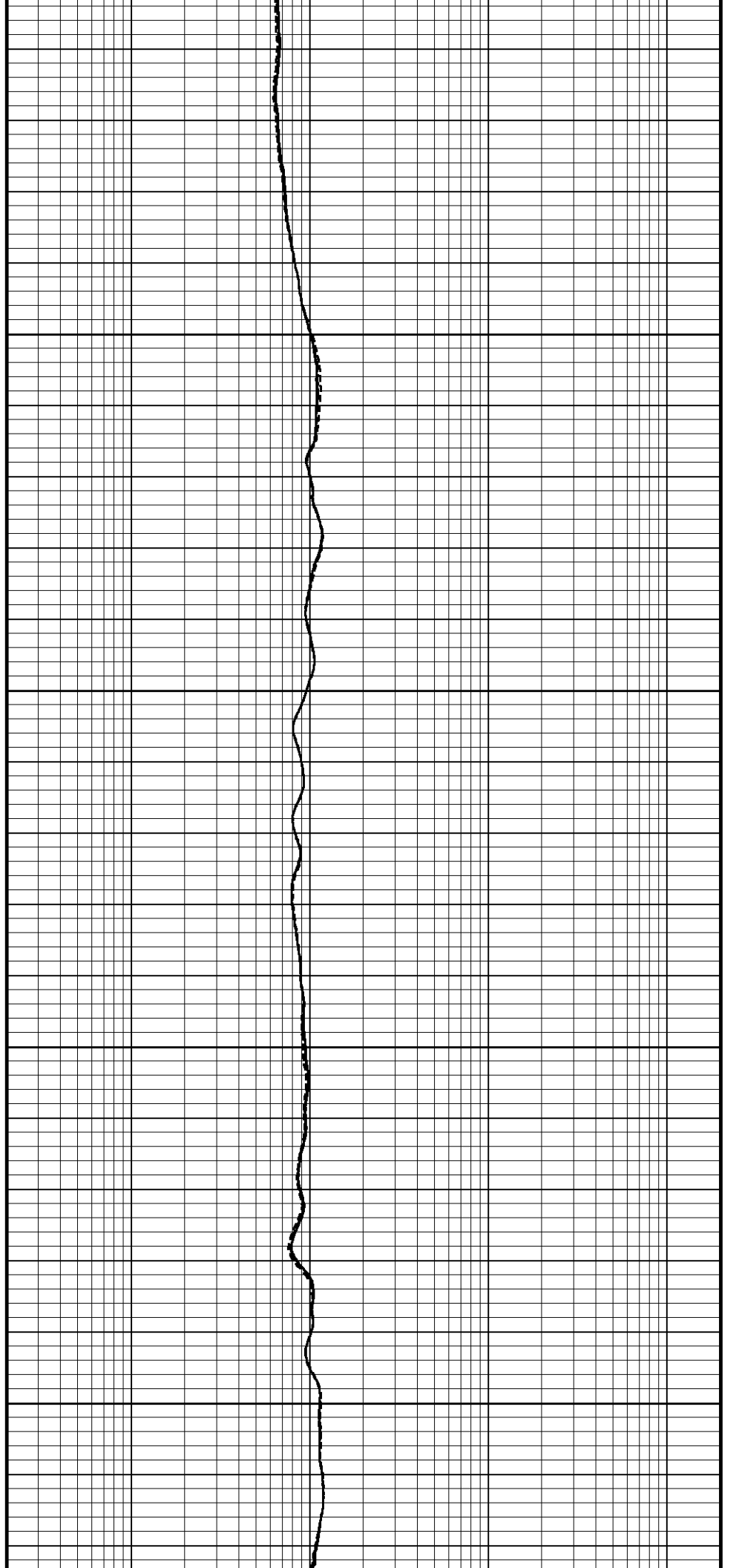
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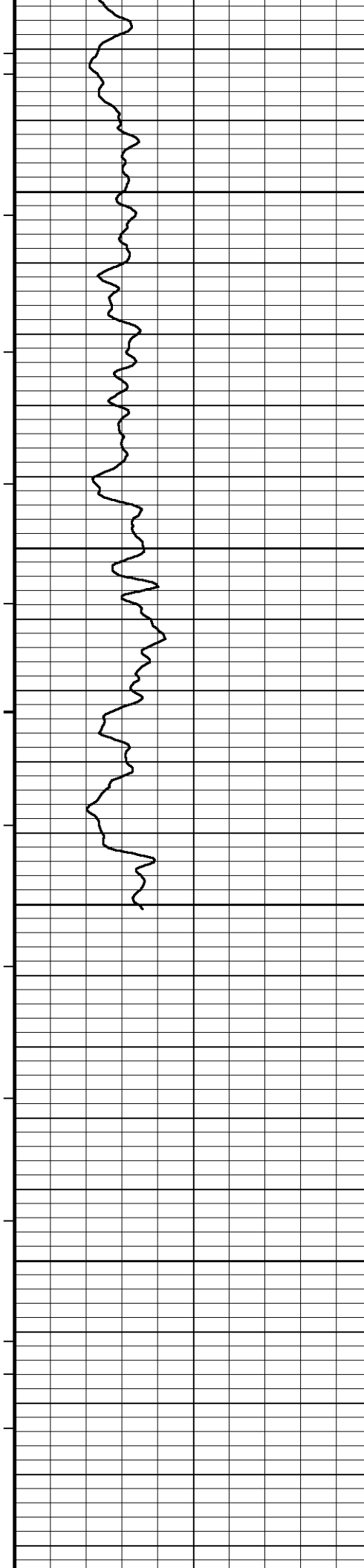
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8200

131°

8250





131°

8300

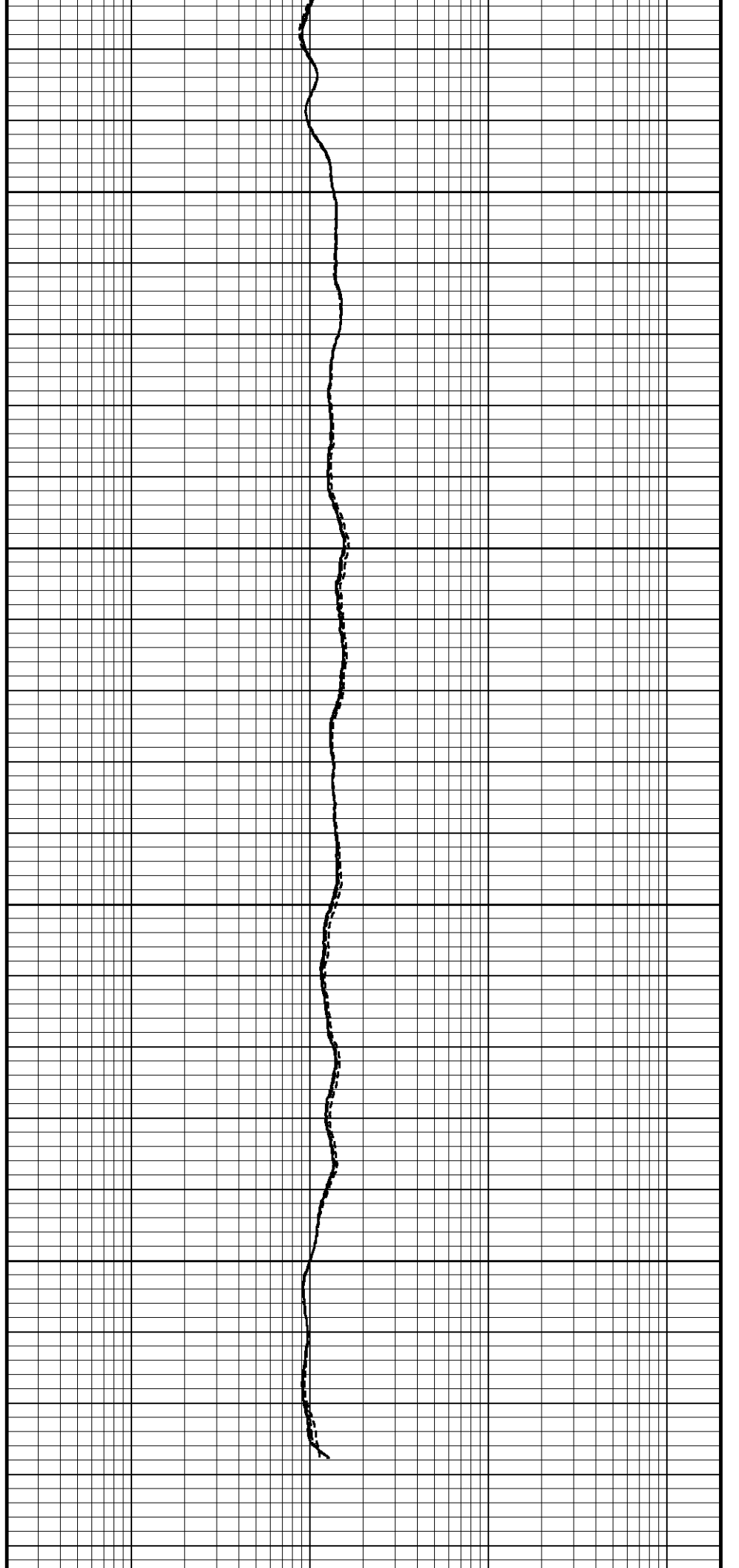
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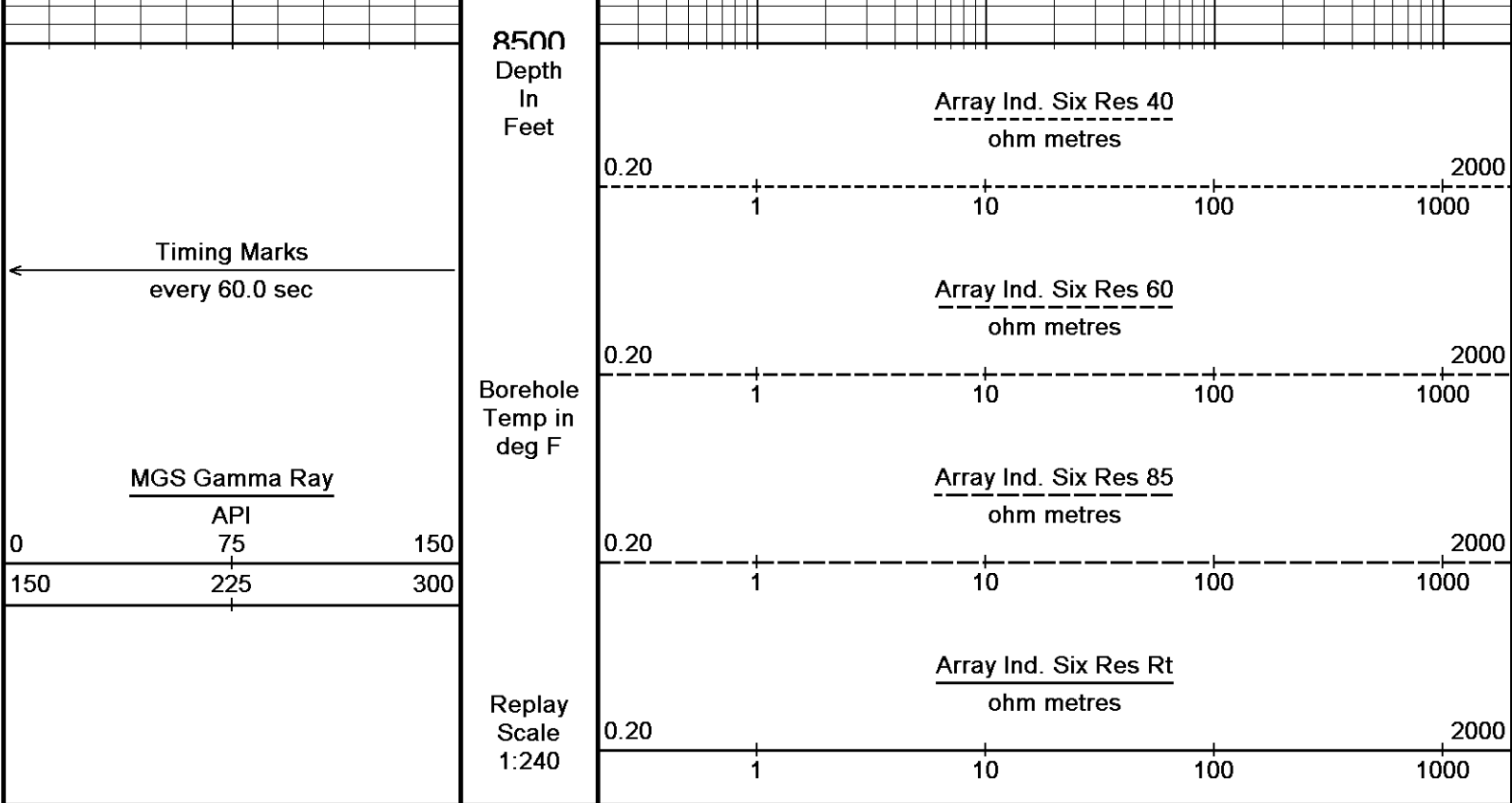
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131°

8400

8450





Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 03-AUG-2013 11:13  
 Filename: C:\Data\Unit\Unit Loudenback 7-1HMSS 166 Depth Log2.dta Recorded on 03-AUG-2013 10:21  
 System Versions: Processed with 13.03.7779 Plotted with 13.03.7779

↑ DSC ↑

**BEFORE SURVEY CALIBRATION**  
 C:\Data\Unit\Unit Loudenback 7-1HMSS 166 Depth Log2.dta

General Constants All 000 Last Edited on 03-AUG-2013,10:28

General Parameters		
Mud Resistivity	2.100	ohm-metres
Mud Resistivity Temperature	77.900	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 Neutron Porosity	
Resistivity used	Array Ind. One Res Rt	
RWA Constant A	0.610	
RWA Constant M	2.150	

Down-hole Tension Calibration SMS 0 Field Calibration on 05-SEP-2012,13:01

Reading No	Measured	Calibrated (lbs)
1	15152.07	0.00
2	18386.74	2000.00

Strain Gauge Constants MMS-E.B 166 Last Edited on 30-JAN-2013,09:56

Atmospheric Pressure	14.70	psi
Serial Number	262005	
Calibration Date	04-Jan-2011	

Base Check Date								
Dead Weight Serial Number	0							
Dead Weight Gravitational Correction	1.0							
Temperature	75.0		150.0		250.0		350.0 degrees F	
Pressure psia	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.	Inc.	Dec.
0.0	0.096	0.097	0.113	0.113	0.129	0.129	0.138	0.139
3000.0	5.275	5.280	5.290	5.294	5.303	5.306	5.307	5.310
6000.0	10.464	10.472	10.478	10.485	10.488	10.494	10.487	10.494
9000.0	15.664	15.672	15.676	15.684	15.683	15.691	15.679	15.687
12000.0	20.876	20.882	20.888	20.893	20.892	20.898	20.885	20.890
15000.0	26.101		26.111		26.114		26.103	

**Gamma Calibration MGS-C.J 133**

Field Calibration on 02-AUG-2013 08:33

	Measured	Calibrated (API)
Background	118	82
Calibrator (Gross)	1938	1343
Calibrator (Net)	1820	1261

**Gamma Constants MGS-C.J 133**

Last Edited on 24-JUL-2013,07:01

Gamma Calibrator Number	46	
Mud Density	1.05	gm/cc
Caliper Source for Processing	MIE Caliper X	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

**SP Calibration MGS-C.J 133**

Field Calibration on 07-FEB-2013 10:52

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

**High Resolution Temperature Calibration MGS-C.J 133**

Field Calibration on 09-FEB-2013,12:46

	Measured	Calibrated(Deg F)
Lower	0.00	0.00
Upper	0.00	0.00

**High Resolution Temperature Constants MGS-C.J 133**

Last Edited on 20-MAR-2013,13:25

Pre-filter Length	11
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**Neutron Calibration MDN-B.J 423**

Base Calibration on 31-JUL-2013 08:30

Field Check on 02-AUG-2013 08:28

Base Calibration		Measured	Calibrated (cps)
	Near	Far	Near Far
	2937	90	3714 110
Ratio	32.765		33.764
Field Calibrator at Base			Calibrated (cps)
			1295 1933
Ratio			0.670
Field Check			Calibrated (cps)
			1333 1985
Ratio			0.671

**Neutron Constants MDN-B.J 423**

Last Edited on 02-AUG-2013,08:22

Neutron Source Id	000	
Neutron Jig Number	000	
Epithermal Neutron	No	
Caliper Source for Processing	Bit Size	
Stand-off	0.00	inches
Mud Density	1.05	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	Constant Value	

Temperature Source	Constant Value	20.00	degrees F
Mud Salinity		0.00	kppm
Salinity Correction	Not Applied		
Formation Fluid Salinity Source	None		
Formation Fluid Salinity	N/A		kppm
Barite Mud Correction	Not Applied		

### Magnetometer Parameters MIE-A.A 205

Date Of Last Magnetometer Calibration	03-NOV-2010,10:42		
Slope	X Magnetometer	Y Magnetometer	Z Magnetometer
Offset	-1.000000	-1.009681	-1.005139
	0.010971	-0.020272	0.014048

### Magnetometer Constants MIE-A.A 205

Last Edited on

Magnetometer Calibrator Number	000
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### Accelerometer Parameters MIE-A.A 205

Date Of Last Accelerometer Calibration	01-NOV-2010,20:15		
Slope	X Accelerometer	Y Accelerometer	Z Accelerometer
Offset	-1.102577	-1.095892	-1.099279
	0.005245	0.001380	-0.006964

### Accelerometer Constants MIE-A.A 205

Last Edited on 01-NOV-2010,20:18

Accelerometer Calibrator Number	000
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#### Accelerometer Temperature Characterisation

##### X Accelerometer

Serial Number	829			
Calibration Date	01-Jan-1998			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	3.85446e-005	-3.97712e-008	1.22710e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.75555e-004	4.16325e-007	4.80125e-010

##### Y Accelerometer

Serial Number	901			
Calibration Date	12-Apr-2010			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	1.24151e-005	-6.79414e-009	7.96660e-011
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.38432e-004	6.40058e-007	-1.92725e-010

##### Z Accelerometer

Serial Number	890			
Calibration Date	10-Apr-2010			
	B0	B1	B2	B3
Bias(g)	0.00000e+000	9.15265e-006	-6.81619e-009	1.46787e-010
	SF0	SF1	SF2	SF3
Scale Factor(mA/g)	3.00000e+000	2.78599e-004	2.72844e-007	9.01795e-010

### Caliper Calibration MIE-A.A 205

Base Calibration on 01-NOV-2010 20:12  
Field Calibration on

#### Base Calibration

Reading No	Pads 1-5 Meas.	Pads 3-7 Meas.	Calibrator Size (in)
1	27006	26164	5.96
2	37039	36625	7.97
3	46872	46116	9.84
4	58291	57849	11.91
5	0	0	0.00

Reading No	Pad 2 Meas.	Pad 4 Meas.	Pad 6 Meas.	Pad 8 Meas.	Calibrator Size (in)
1	25116	23882	25036	24789	5.96
2	33940	32930	33993	33467	7.97
3	41946	41141	42331	41802	9.84
4	51857	51034	52212	51630	11.91
5	0	0	0	0	0.00

#### Field Calibration



Measured

Measured

Actual

Measured

Measured

Measured

Measured

Actual

Caliper Constants MIE-A.A 205

Last Edited on 02-NOV-2010,12:29

Caliper Difference for BRKT 0.120 inches

Navigation Constants MIE-A.A 205

Last Edited on

Magnetic Declination 0.00 degrees East

Imager Pad Check MIE-A.A 205

Field Check on

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 205

Last Edited on 02-AUG-2013,09:07

Sonde Configuration Imager Mode
Arm-Pad Kit Normal Pads (12.25 in)
Arm-Pad Kit Serial Number N/A
Centre Pad 1 Rotational Offset 0.00 degrees
Image/Borehole Ovality Reference Azimuth of Pad 1
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

High Resolution Temperature Calibration MAI-B.J 392

Field Calibration on 23-APR-2013,20:26

Lower Measured 10.00 Calibrated(Deg F) 10.00
Upper 100.00 100.00

High Resolution Temperature Constants MAI-B.J 392

Last Edited on 23-APR-2013,20:26

Pre-filter Length 11

Induction Calibration MAI-B.J 392

Base Calibration on 23-APR-2013,20:27
Field Check on 02-AUG-2013 08:13

Base Calibration
Test Loop Calibration Measured Calibrated (mmho/m)
Channel Low High Low High
1 15.4 450.7 9.3 966.2
2 5.4 363.0 7.6 821.4
3 3.4 248.8 5.2 566.0
4 2.1 125.2 2.6 279.2
Array Temperature 24.2 Deg F
Channel Base Check (mmho/m) Field Check (mmho/m)
Low High Low High
1 17.9 4026.6
2 33.5 3712.2
3 30.0 3181.6
4 20.6 2210.9
Deep 17.4 2094.0
Medium 43.8 4157.8
Shallow 51.6 5468.9
Array Temperature 79.4 Deg F

Induction Constants MAI-B.J 392

Last Edited on 03-AUG-2013,10:28

Induction Model PtAP WRM

Induction Model	ROI - WDM	Density Caliper	
Caliper for Borehole Corr.		N/A	inches
Hole Size for Borehole Correction		No	
Tool Centred		Fins	
Stand-off Type		0.50	inches
Stand-off		6.0000	
Number of Fins on Stand-off		60.00	degrees
Stand-off Fin Angle		0.5000	inches
Stand-off Fin Width		Temperature Corr	
Borehole Corr. Rm Source	MGS External Temperature		
Temp. for Rm Corr.		0.0020	mhos/metre
Squasher Start		N/A	mhos/metre
Squasher Offset			

#### 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	

#### Photo Density Calibration MPD-D.A 471

Base Calibration on 31-JUL-2013 10:32  
Field Check on 02-AUG-2013 08:17

#### Density Calibration

Base Calibration	Measured		Calibrated (sdu)	
	Near	Far	Near	Far
Reference 1	52204	26606	59494	30754
Reference 2	22924	2688	26390	2598

#### Field Check at Base

1258.9      1453.5

#### Field Check

1258.8      1461.4

#### PE Calibration

Base Calibration	WS	Measured		Calibrated Ratio
		WH	Ratio	
Background	243	1129		
Reference 1	22789	52005	0.443	0.367
Reference 2	7166	22780	0.320	0.270

#### Field Check at Base

242.9      1128.6

#### Field Check

242.0      1126.0

#### Density Constants MPD-D.A 471

Last Edited on 08-JUL-2013,06:46

Density Source Id	243
Nylon Calibrator Number	633
Aluminium Calibrator Number	633
Density Shoe Profile	4 inch

Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.05	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	

Caliper Calibration MPD-D.A 471

Base Calibration on 31-JUL-2013 10:58  
Field Calibration on 02-AUG-2013 08:20

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	17903	3.99
2	26260	5.97
3	34744	7.99
4	42995	9.86
5	52322	11.93
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
5.88	5.97

DOWNHOLE EQUIPMENT

C:\Data\Unit\Unit Loudenback 7-1HMSS 166 Depth Log2.dta

- Shuttle Running Tool 3.5" )
- SRT-A.A 40 LG: 6.62 ft WT: 37.5 lb OD: 2.52 in
- Empty Battery
- MLK-A 2 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in
- Empty Battery
- MLK-A 3 LG: 14.23 ft WT: 30.9 lb OD: 2.24 in
- MBS-F.A 200v Compact Battery Sub
- MBS-F.A 114 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 63 LG: 1.54 ft WT: 13.2 lb OD: 2.24 in
- Compact Short Gamma
- MGS-C.J 133 LG: 3.41 ft WT: 24.3 lb OD: 2.24 in
- Compact Collar Locator
- MCL-B.J 72 LG: 3.17 ft WT: 26.5 lb OD: 2.24 in
- SKJ-D.A Compact Knuckle Joint
- SKJ-D.A 165 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in
- SHA - A Compact Spring Head Adapter



SHA-J.A Compact Swivel Head Adaptor  
 SHA-J.A 432 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub  
 MIS-A.A 247 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact Neutron  
 MDN-B.J 423 LG: 5.04 ft WT: 50.7 lb OD: 2.24 in

Compact Density/Caliper  
 MPD-D.A 471 LG: 9.59 ft WT: 90.4 lb OD: 2.24 in

MIS-D.A Compact Inline Bowspring sub  
 MIS-D.A 435 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

SHA-J.B Compact Swivel Head Adaptor  
 SHA-J.B 595 LG: 2.30 ft WT: 22.0 lb OD: 2.24 in

SKJ-E.B Compact Knuckle Joint  
 SKJ-E.B 480 LG: 2.17 ft WT: 24.3 lb OD: 2.24 in

MIS-A.A Compact Inline Bowspring sub  
 MIS-A.A 275 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

Compact MMI Memory Section  
 MIM-B.A 254 LG: 4.65 ft WT: 26.5 lb OD: 2.24 in

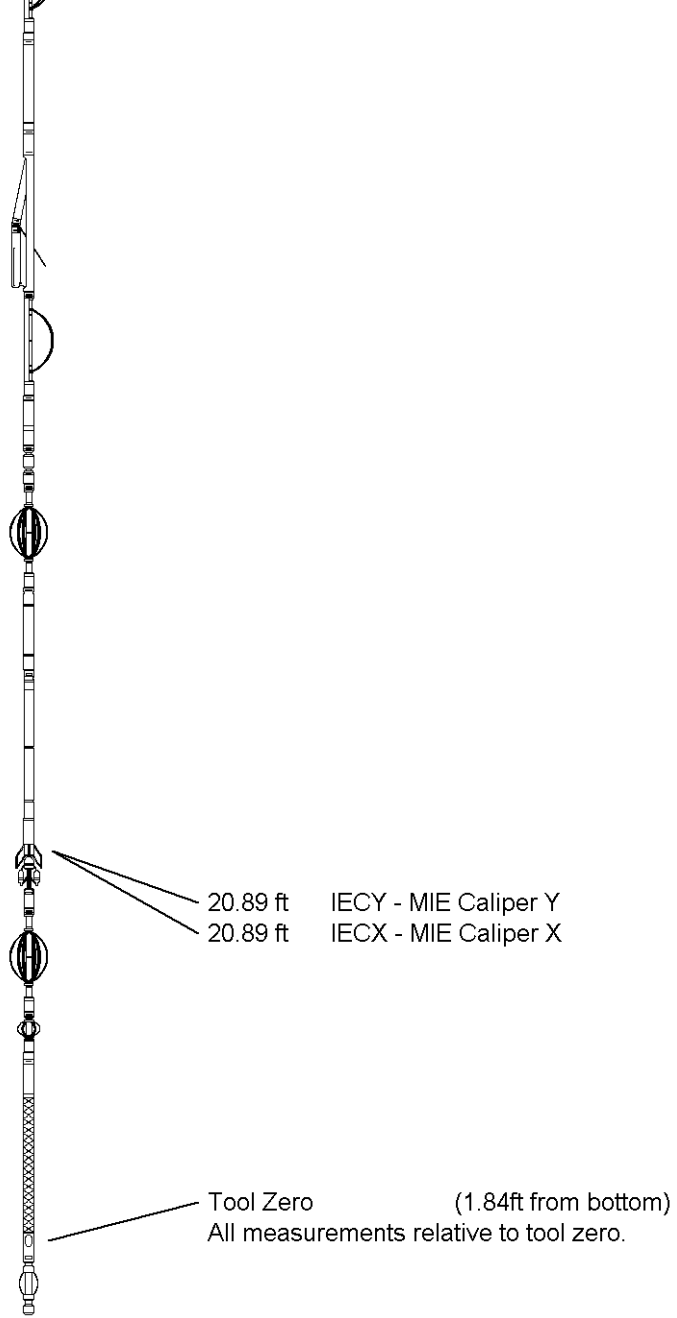
Compact MMI Electrode Section  
 MIE-A.A 205 LG: 13.96 ft WT: 99.2 lb OD: 4.09 in

MIS-D.B Compact Inline Bowspring sub  
 MIS-D.B 707 LG: 5.70 ft WT: 33.1 lb OD: 2.24 in

MIS-E.B Compact Inline Standoff sub  
 MIS-E.B 597 LG: 2.14 ft WT: 15.4 lb OD: 2.24 in

Compact Induction  
 MAI-B.J 392 LG: 12.52 ft WT: 48.5 lb OD: 2.24 in

Total Length: 145.08 ft Weight: 879.6 lb



COMPANY UNIT PETROLEUM  
 WELL LOUDENBACK 7-1H  
 FIELD WILDCAT  
 PROVINCE/COUNTY RENO  
 COUNTRY/STATE USA / KANSAS

Elevation Kelly Bushing	1784.00	feet	First Reading	8478.00	feet
Elevation Drill Floor	1784.00	feet	Depth Driller	8615.00	feet
Elevation Ground Level	1770.00	feet	Depth Logger	8482.00	feet



**Weatherford**<sup>®</sup>

CML WELL SHUTTLE  
 COMPACT ARRAY INDUCTION  
 LOG

Depth  
In  
Feet

Array Ind. Six Cond Ct

1000 750 500 250 0  
2000 1750 1500 1250 1000

Timing Marks  
every 60.0 sec

MGS Gamma Ray

API  
75 150  
150 225 300

Array Ind. Six Res 20  
ohm metres

0 50 100  
0 500 1000

Array Ind. Six Res Rt  
ohm metres

0 50 100  
0 500 1000

Replay  
Scale  
1:600

4300  
4400  
4500  
4600  
4700  
4800  
4900  
5000  
5100  
5200

