



PRECISION

COMPENSATED SONIC

Compact

1:200 MD

COMPANY

ESSO AUSTRALIA PTY.LTD

WELL

WKF W23A

FIELD

KINGFISH GDA94

PROVINCE/COUNTRY

BASS STRAIT, VICTORIA

COUNTRY/STATE

AUSTRALIA

LOCATION

S 38 35 34.842, E 148 6 19.670

N 5727806.411 m, E 596271.358 m

FIELD PRINT

LSD SEC TWP RGE

Other Services

COMPENSATED NEUTRON

API Number

PHOTO DENSITY

Permit Number

DUAL LATEROLOG

Permanent Datum MSL

, Elevation 0.0 metres

Log Measured From DF @ 33.43m above Permanent Datum

Drilling Measured From DF

Elevations:
KB 33.43 metres
DF 33.43 metres
GL -76.13 metres

Date 24-OCT-2006

Run Number ONE

Depth Driller 3338.00 metres

Depth Logger 3338.00 metres

First Reading 3330.40 metres

Last Reading 651.00 metres

Casing Driller 651.00 metres

Casing Logger 651.00 metres

Bit Size 8.50 inches

Hole Fluid Type KCL/PHPA

Density / Viscosity 1.17 g/cc 27.00 CP

PH / Fluid Loss 9.00 2.40 ml/30Min

Sample Source FLOWLINE

Rm @ Measured Temp 0.145 @ 25.0 ohm-m

Rmf @ Measured Temp 0.088 @ 25.0 ohm-m

Rmc @ Measured Temp 0.195 @ 25.0 ohm-m

Source Rmf / Rmc MEAS MEAS

Rm @ BHT 0.065 @ 83.1 ohm-m

Time Since Circulation 29 HOURS

Max Recorded Temp 87.70 deg C

Equipment Name CML

Equipment / Base 1 SALE

Recorded By B J R MOSS, R L TENCH

Witnessed By D VAN DER AA

LAST CIRC. 17:05 22/10

Last Line

BOREHOLE RECORD

Bit Size inches	Depth From metres	Depth To metres
8.500	651.00	3338.00

CASING RECORD

Type	Size inches	Depth From metres	Shoe Depth metres	Weight pounds/ft
K-55	10.750	0.00	651.00	40.50

REMARKS

RIG: NABORS 453

5" SHUTTLE/MEMORY COMPACT OPERATION.
CREW: B MOSS ,R TENCH, M KOLCZE, B GOODWIN.

FIELD FINAL LOGS TO BE CORRELATED TO ANADRILL GAMMA LOG.

MAX. TEMPERATURE: 87.7 DEG C AT 3281.0 m MD
MAX. INCLINATION: 60.76 DEG AT 1340.34 m MD
MAX. DOGLEG SEVERITY: 6.96 DEG/30m AT 679.90 m MD
DEPLOYMENT ANGLE: 47.36 DEG

HVOL: FT^3
AVOL: FT^3

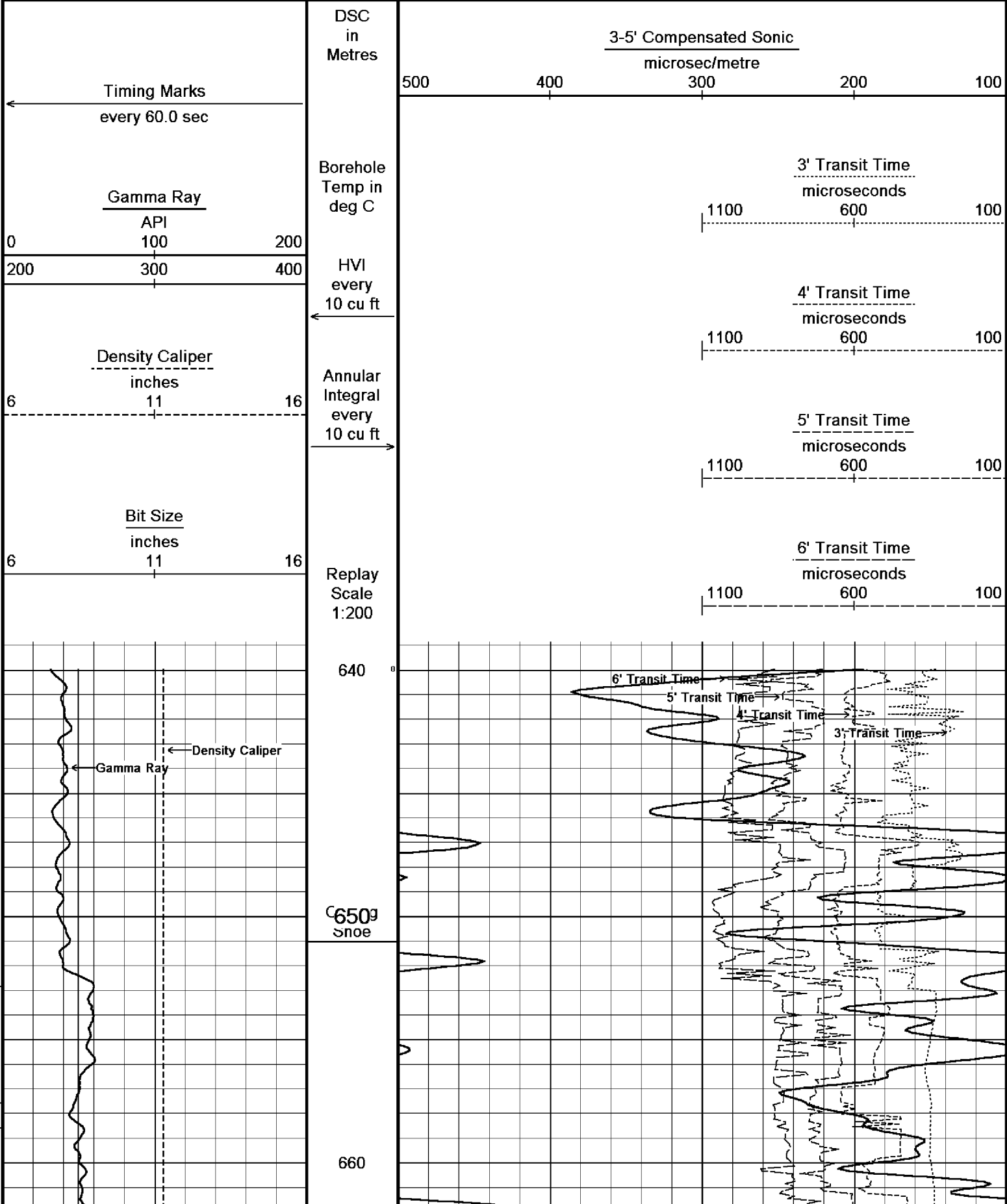
NO HOLE VOLUMES OR DENSITY READINGS GIVEN DUE TO FAILURE OF CALIPER AND DENSITY TOOL DURING RUNNING IN THE HOLE.

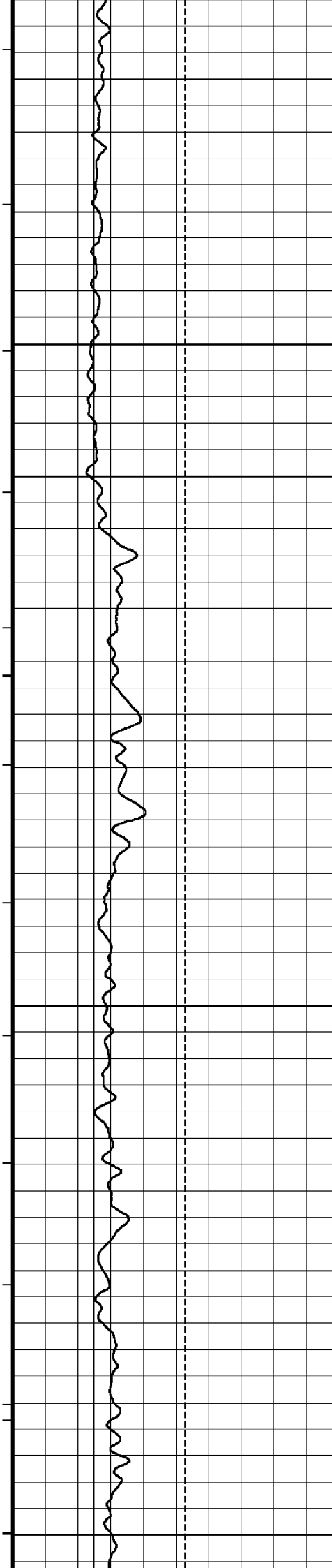
LOGGING SPEED 6 M/MIN FROM TD TO 2995 M MD
LOGGING SPEED 12 M/MIN FROM 2995 TO 1444 M MD
LOGGING SPEED 6 M/MIN FROM 1444 TO 1272 M MD
LOGGING SPEED 12 M/MIN FROM 1272 TO 1071 M MD
LOGGING SPEED 6 M/MIN FROM 1071 TO 928 M MD

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 employees. These interpretations are also subject to our general terms and conditions in our price schedule.

MAIN LOG 1:200

Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-OCT-2006 08:03
 Filename: C:\logs\WKF_W23A\FIELD_DATA\WKF_W23A_MAIN_LOG.dta Recorded on 24-OCT-2006 11:22
 System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:





54°

670

680

54°

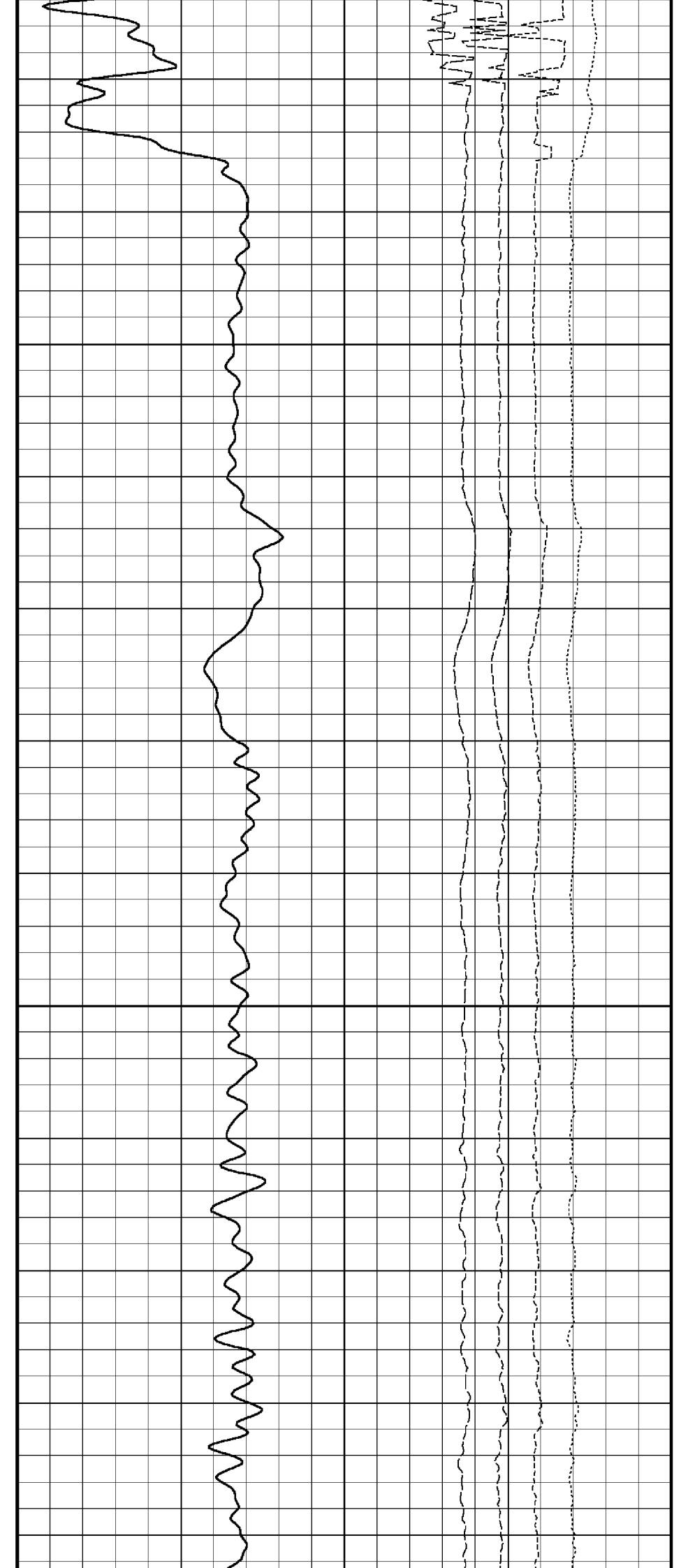
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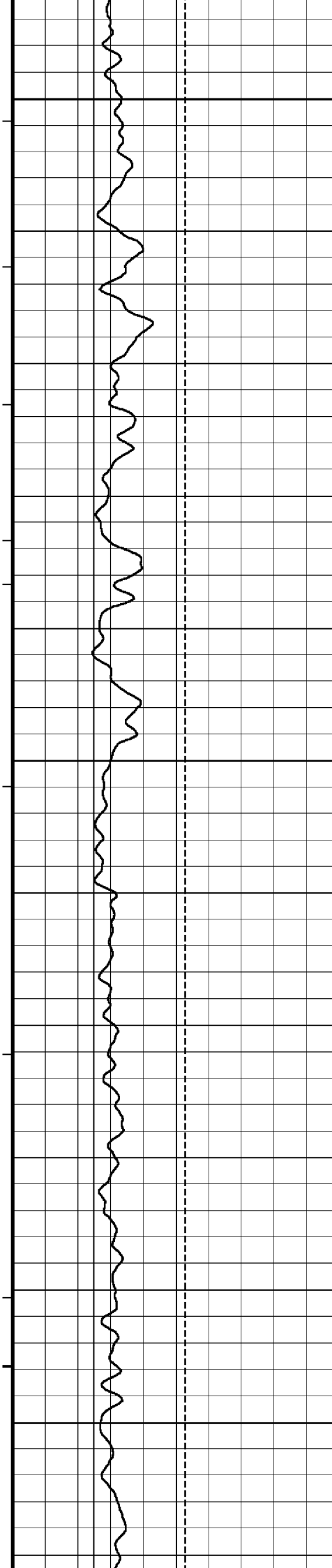
700

710

55°

720





730

55°

740

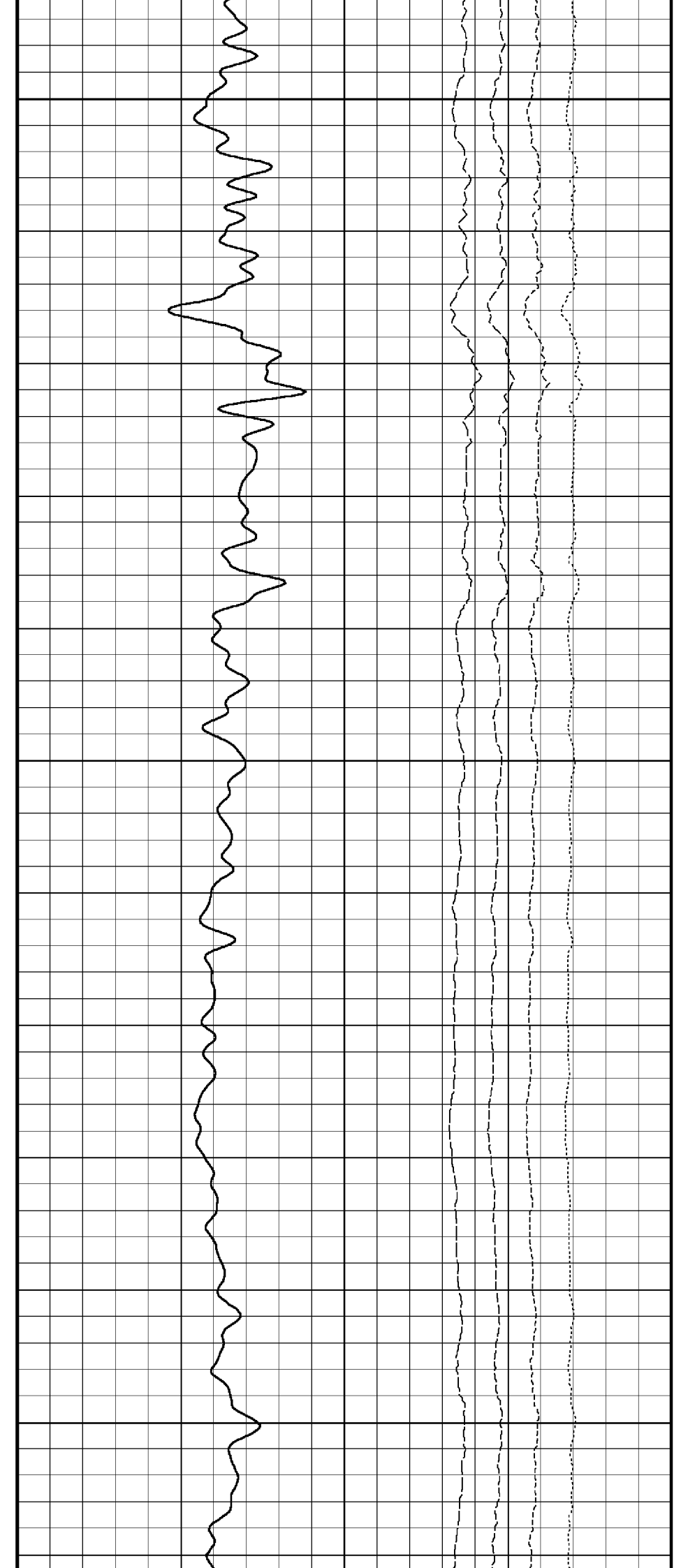
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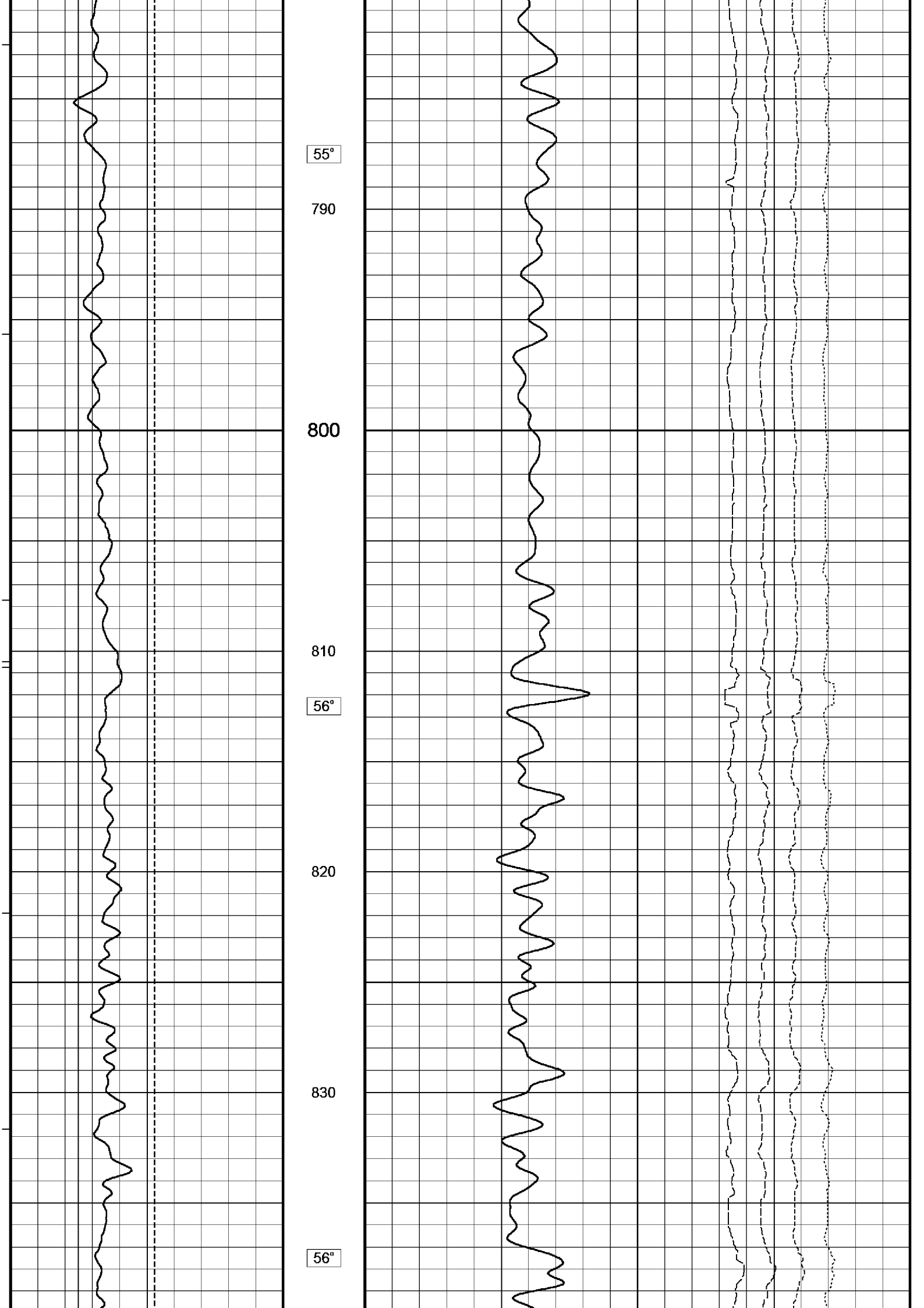
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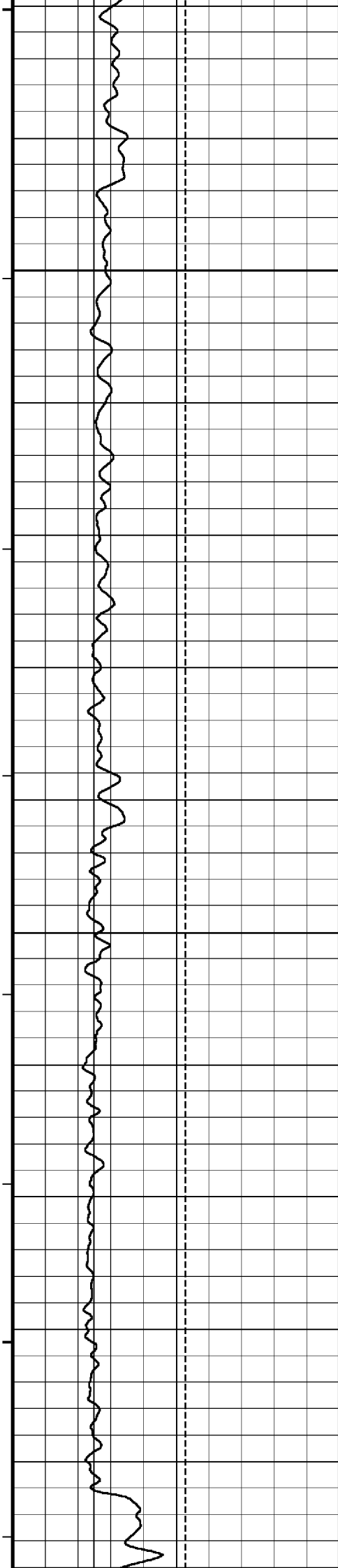
55°

770

780







840

850

860

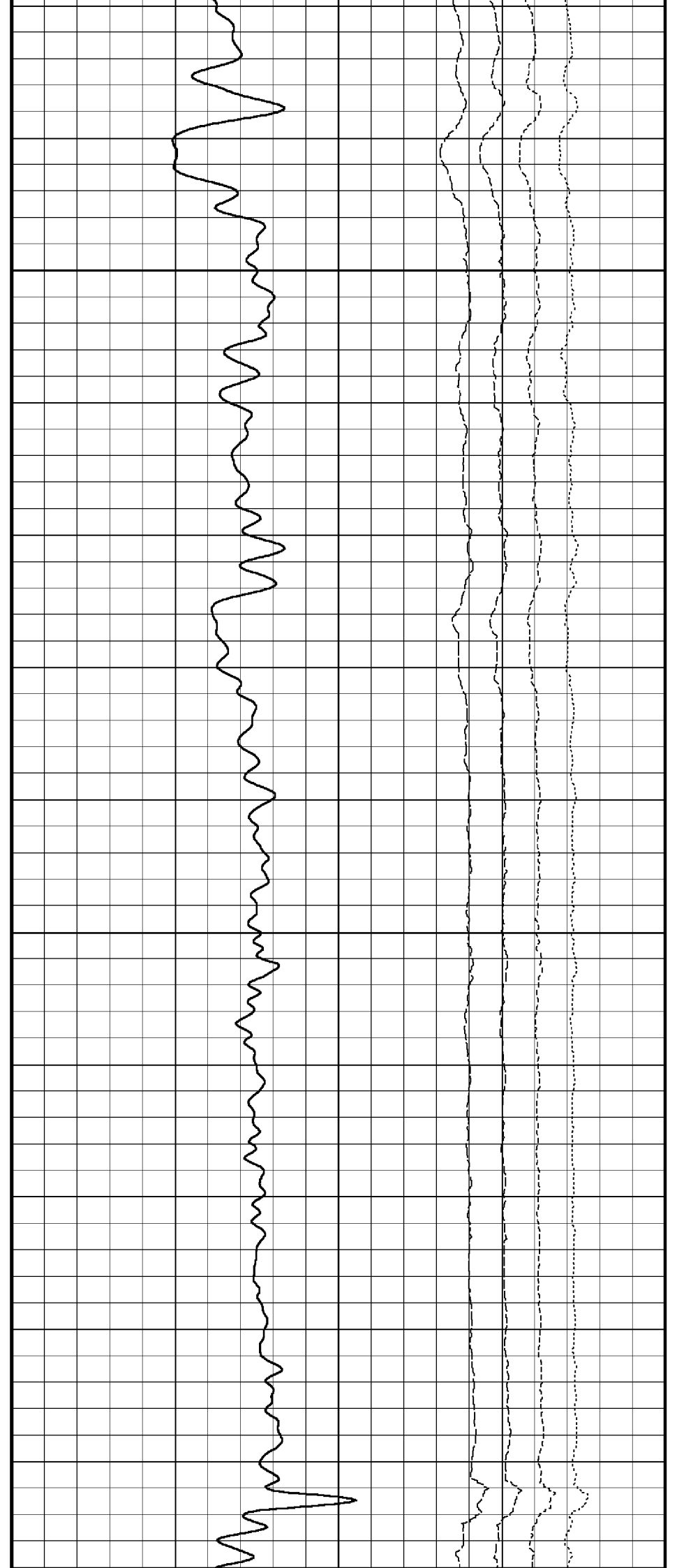
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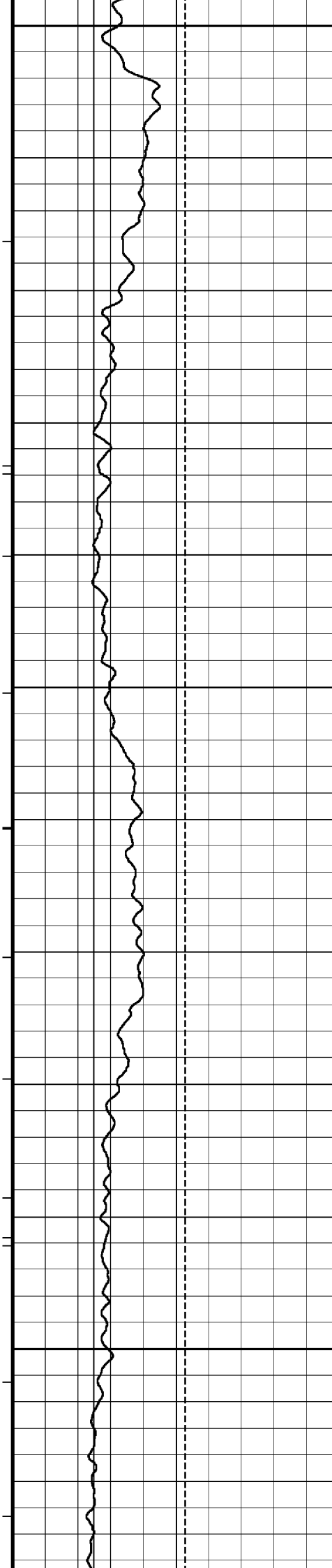
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880

57°

890





900

910

920

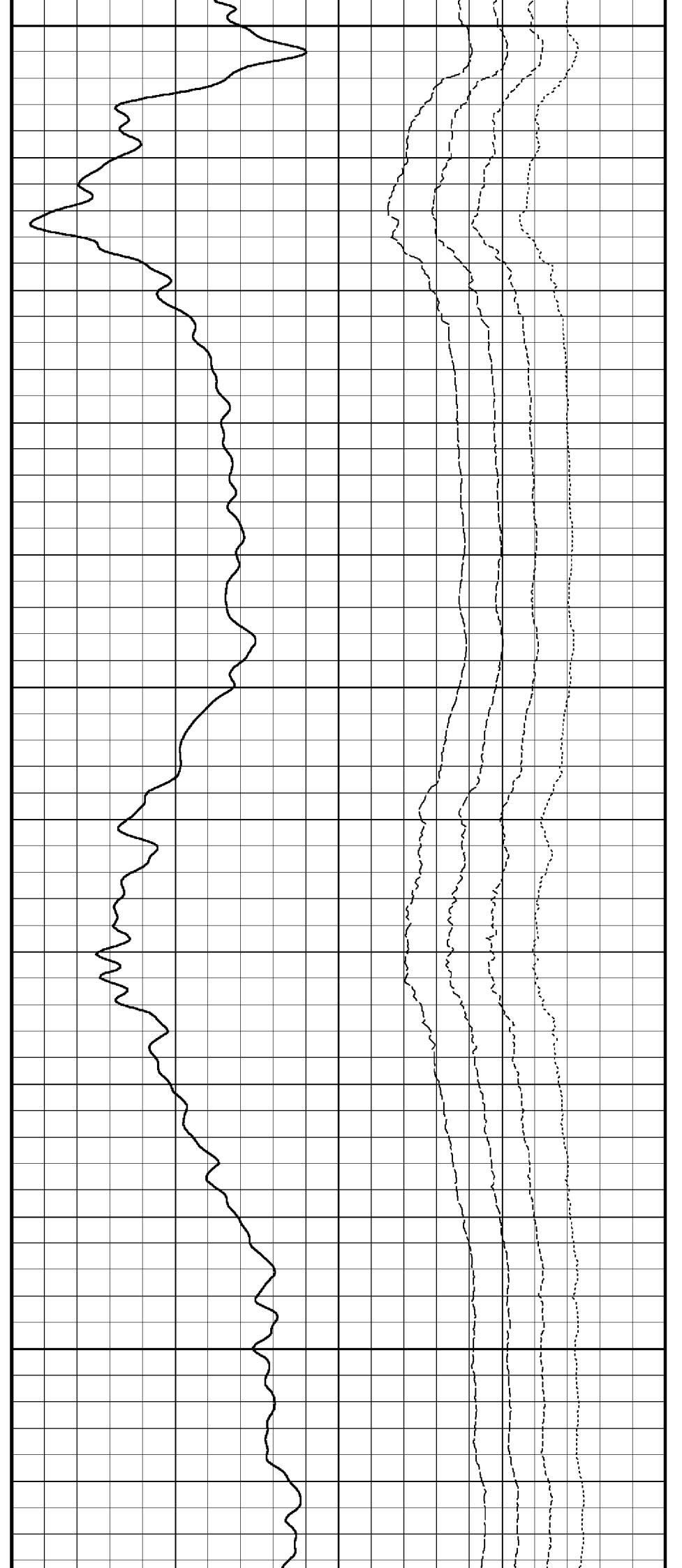
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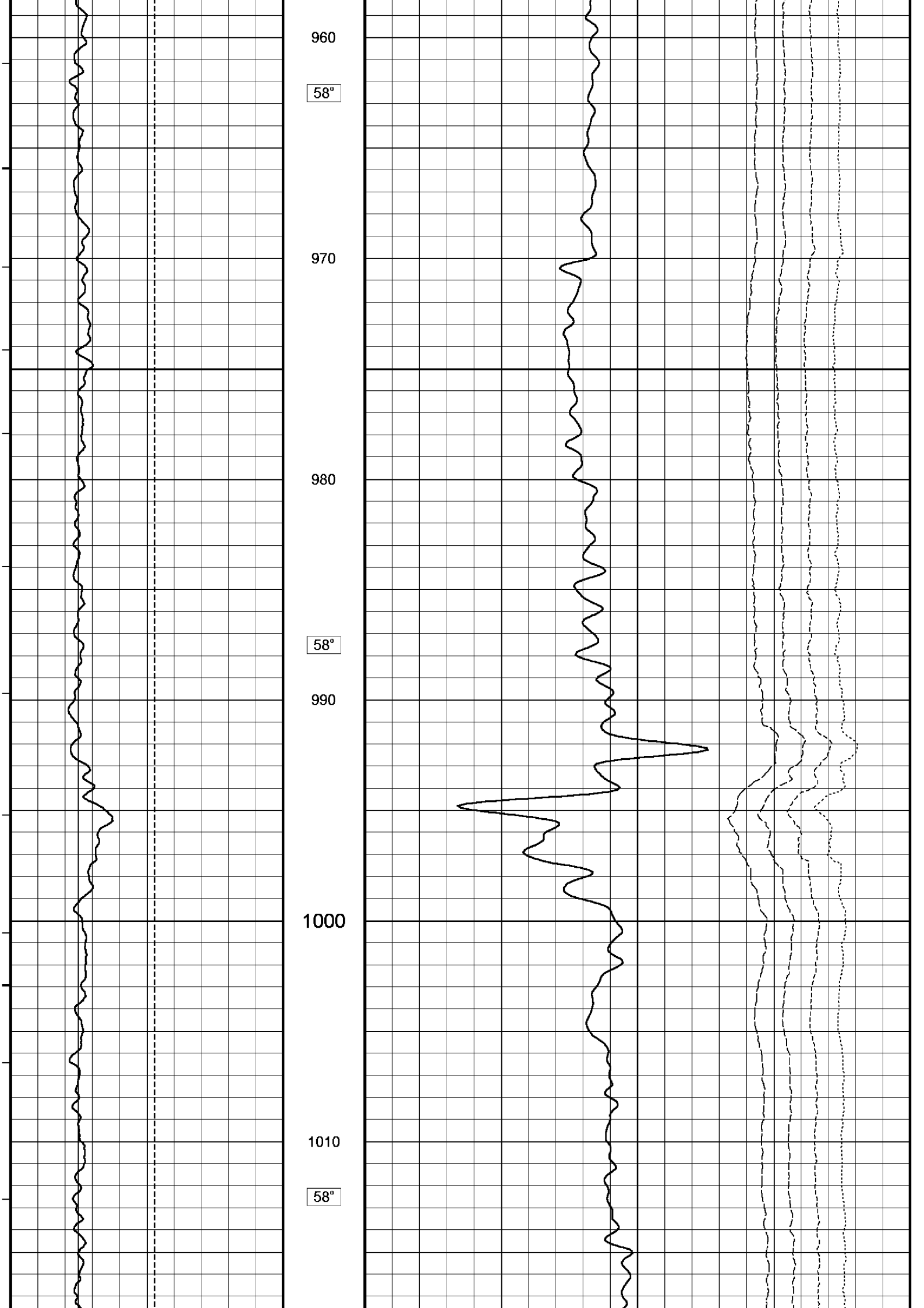
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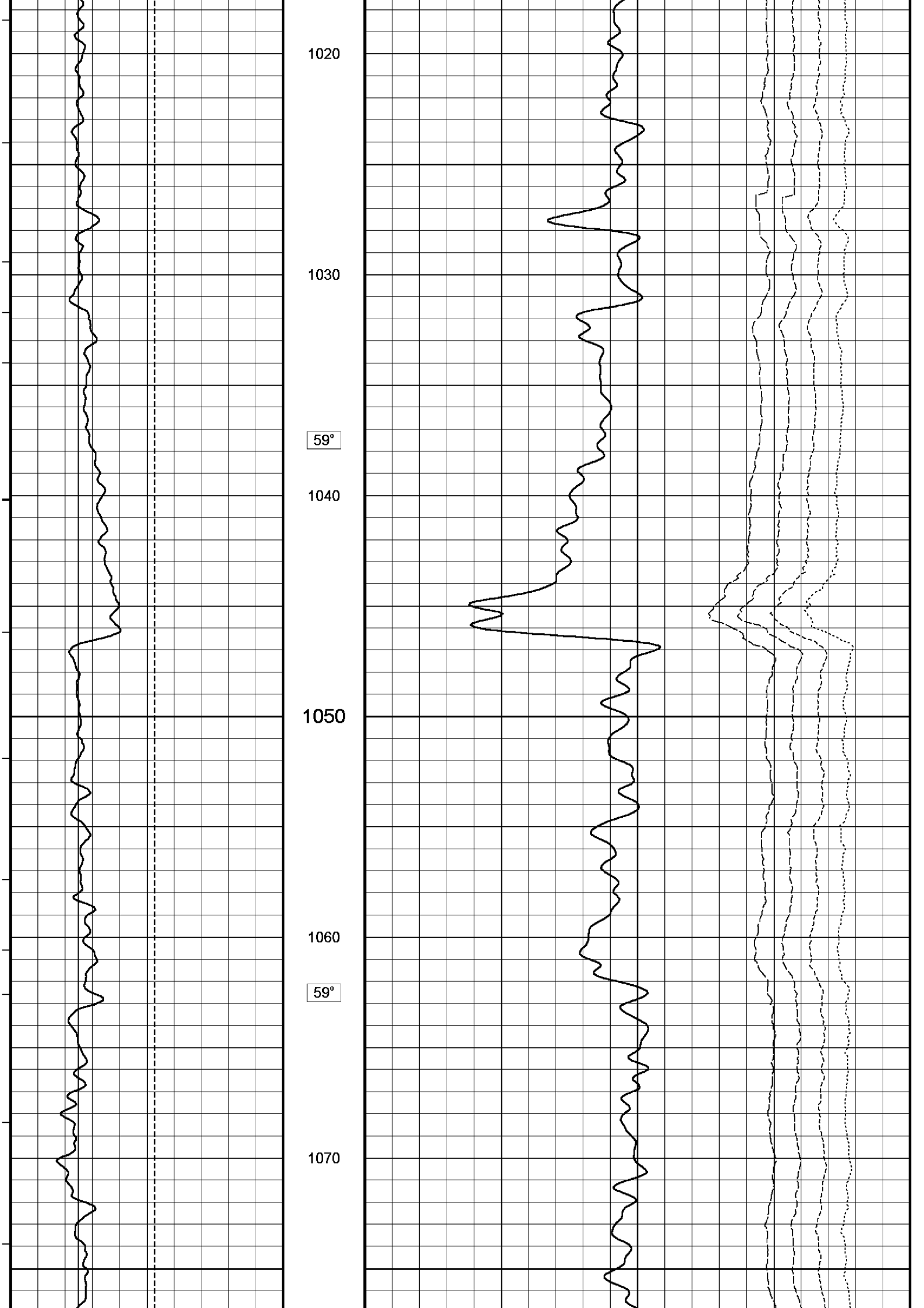
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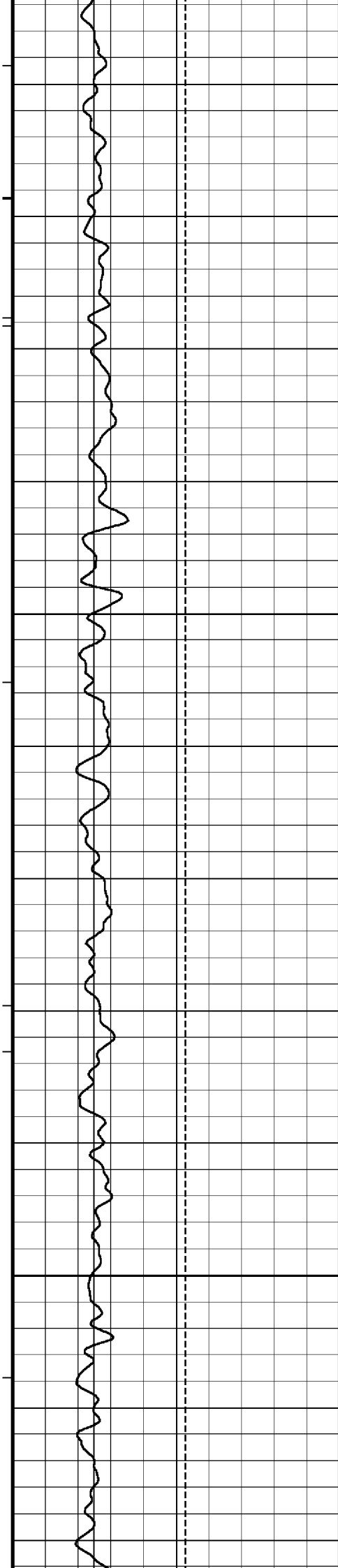
57°

57°









1080

60°

1090

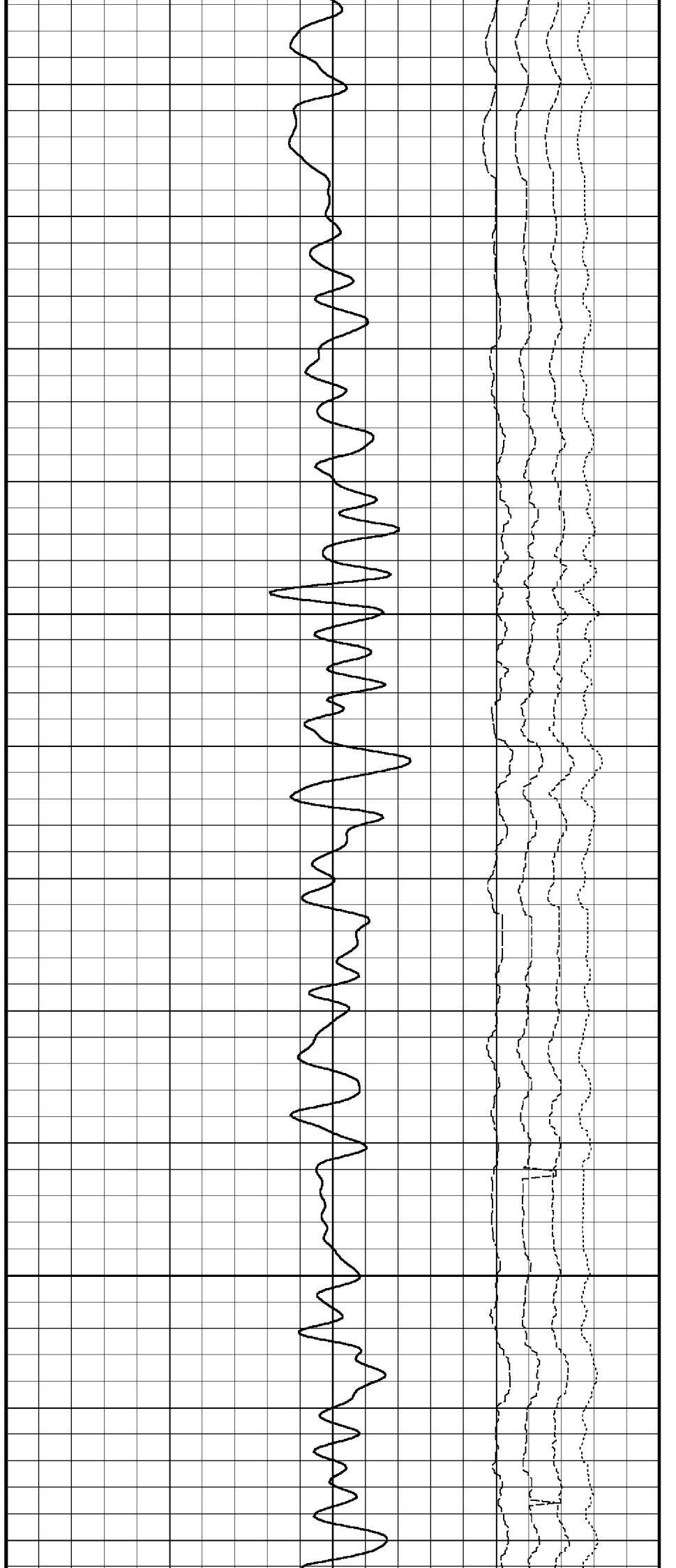
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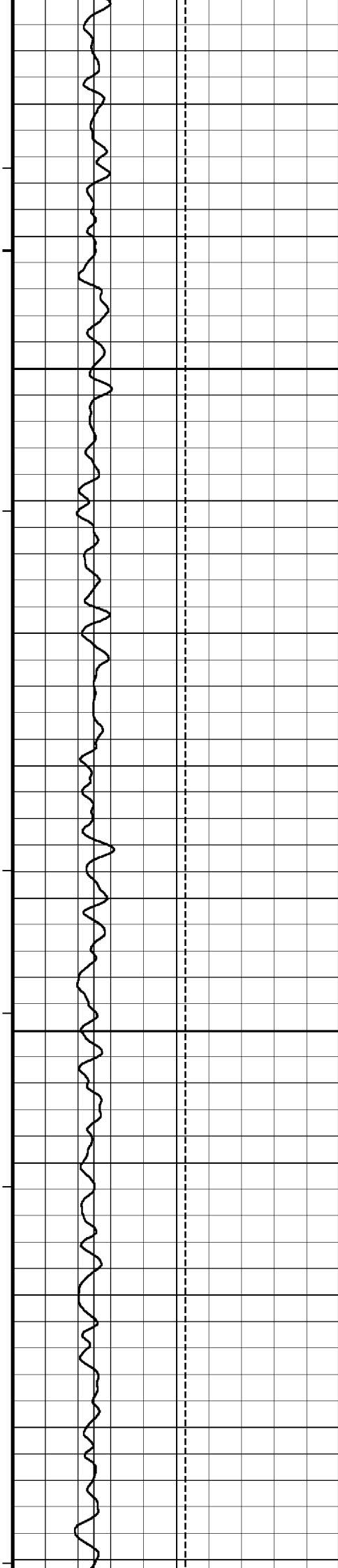
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60°

1120

1130





60°

1140

1150

1160

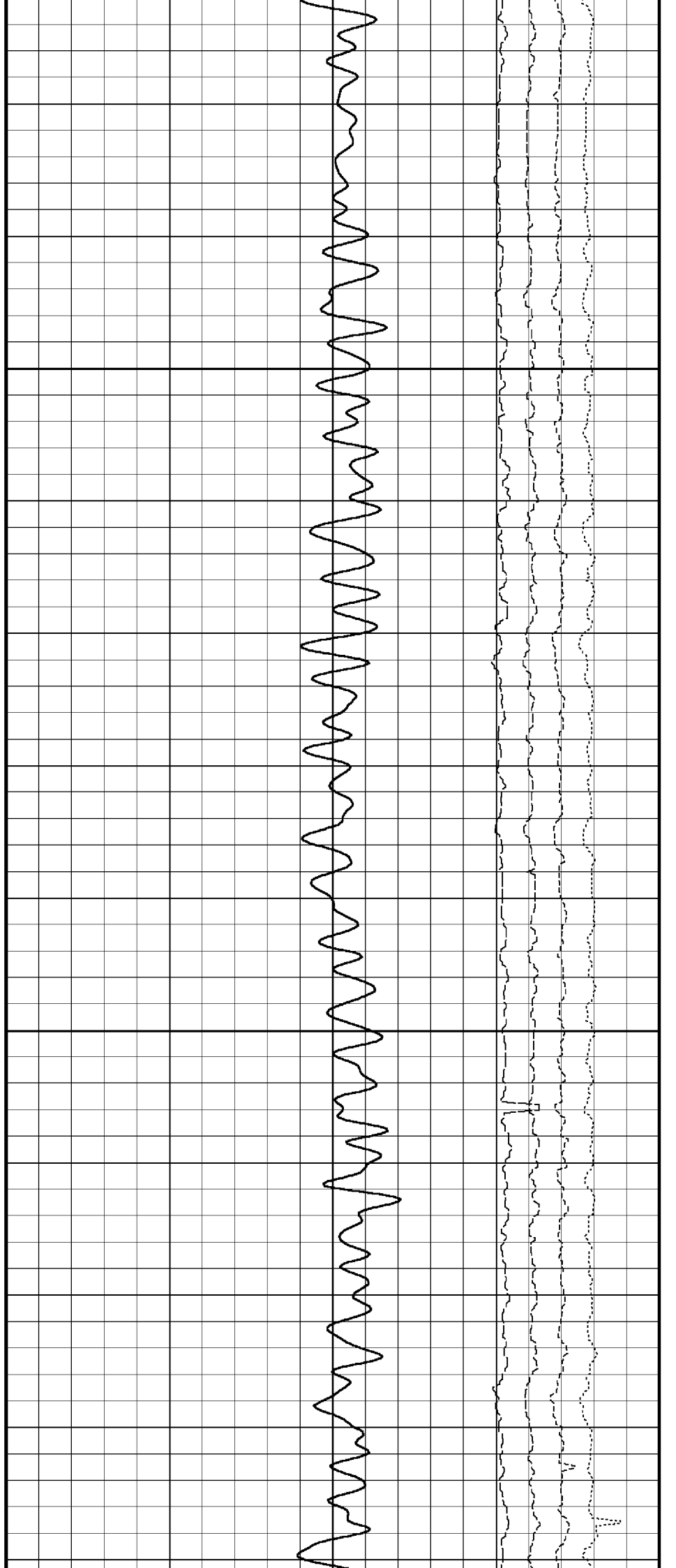
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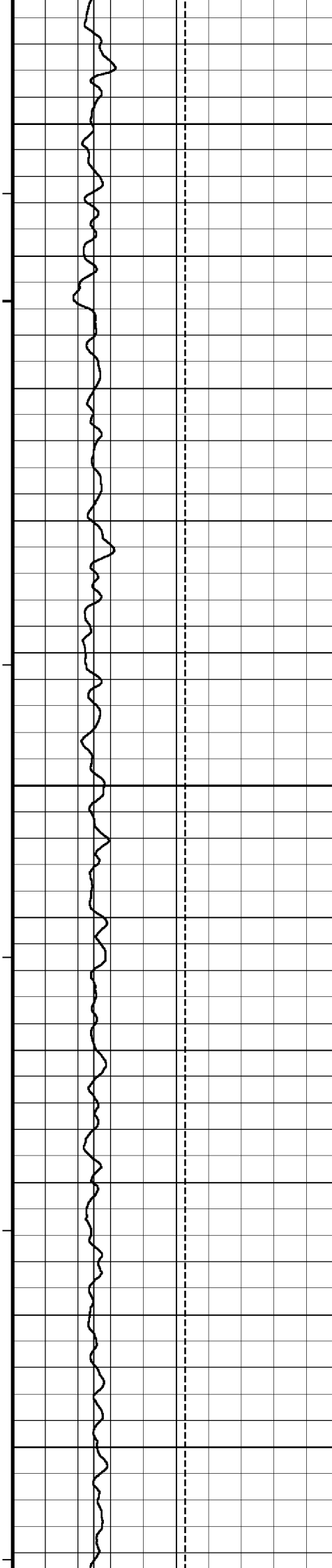
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1180

61°

1190





1200

1210

62°

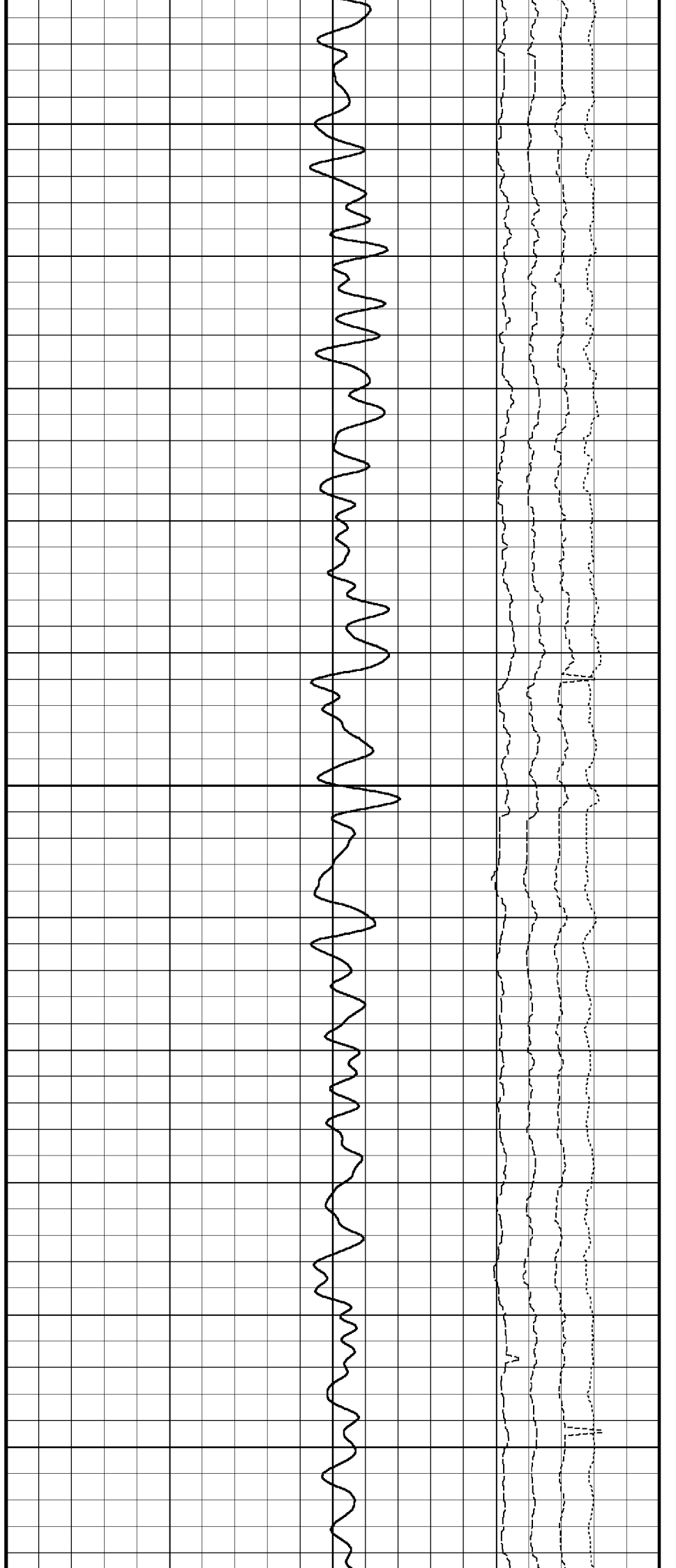
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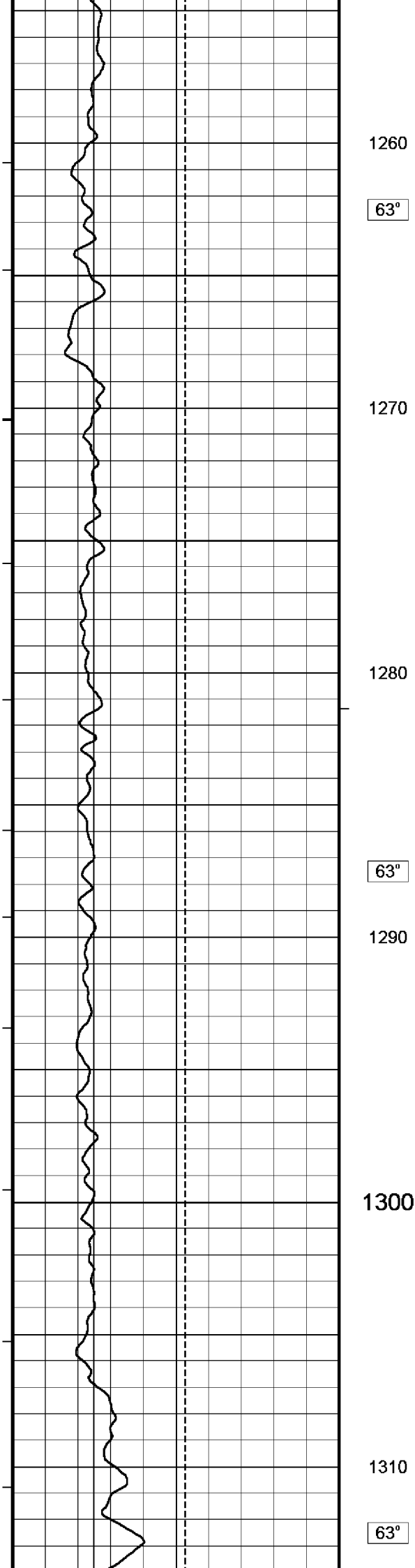
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62°

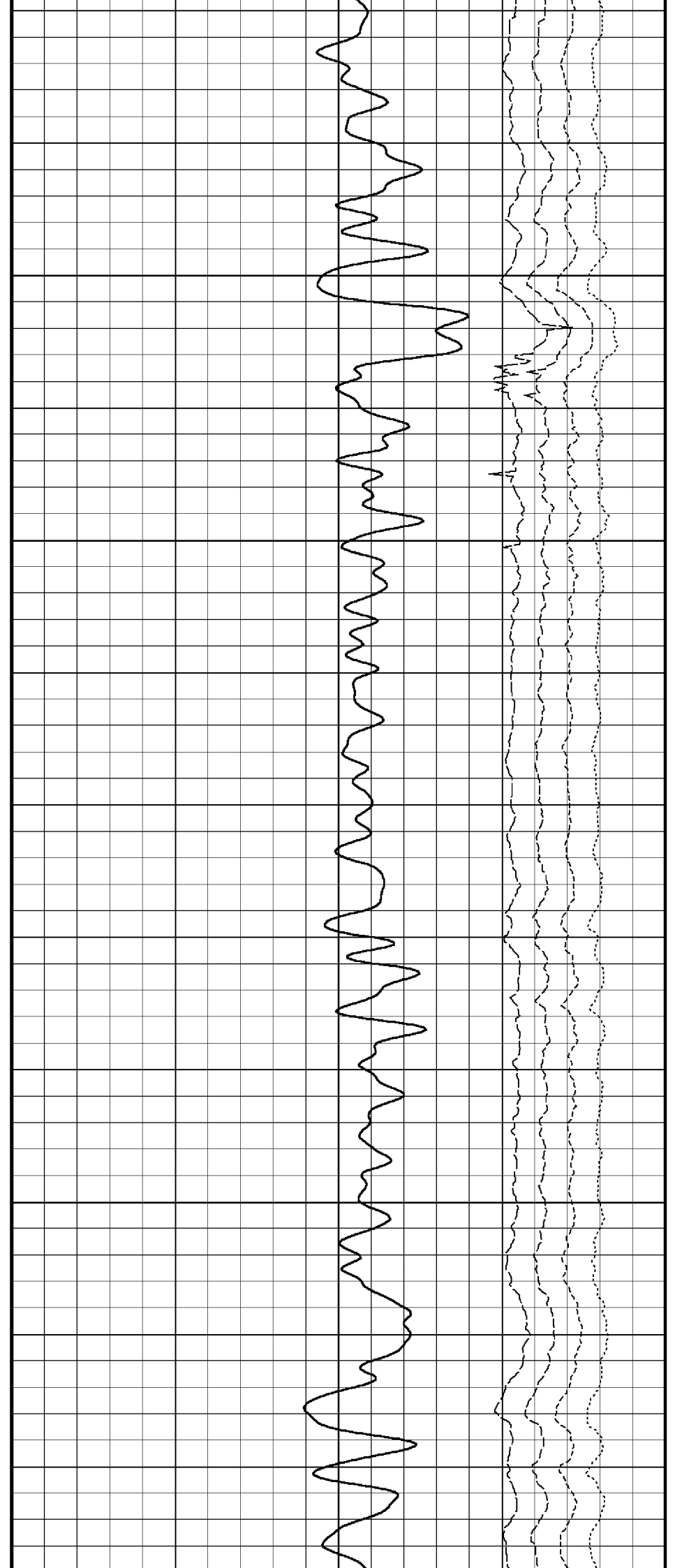
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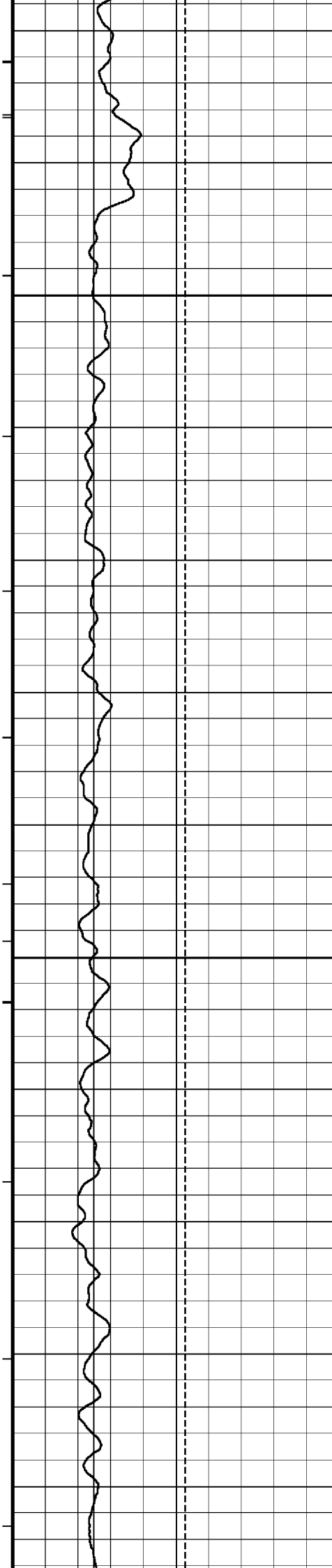
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1260
63°
1270
1280
63°
1290
1300
63°





1320

1330

64°

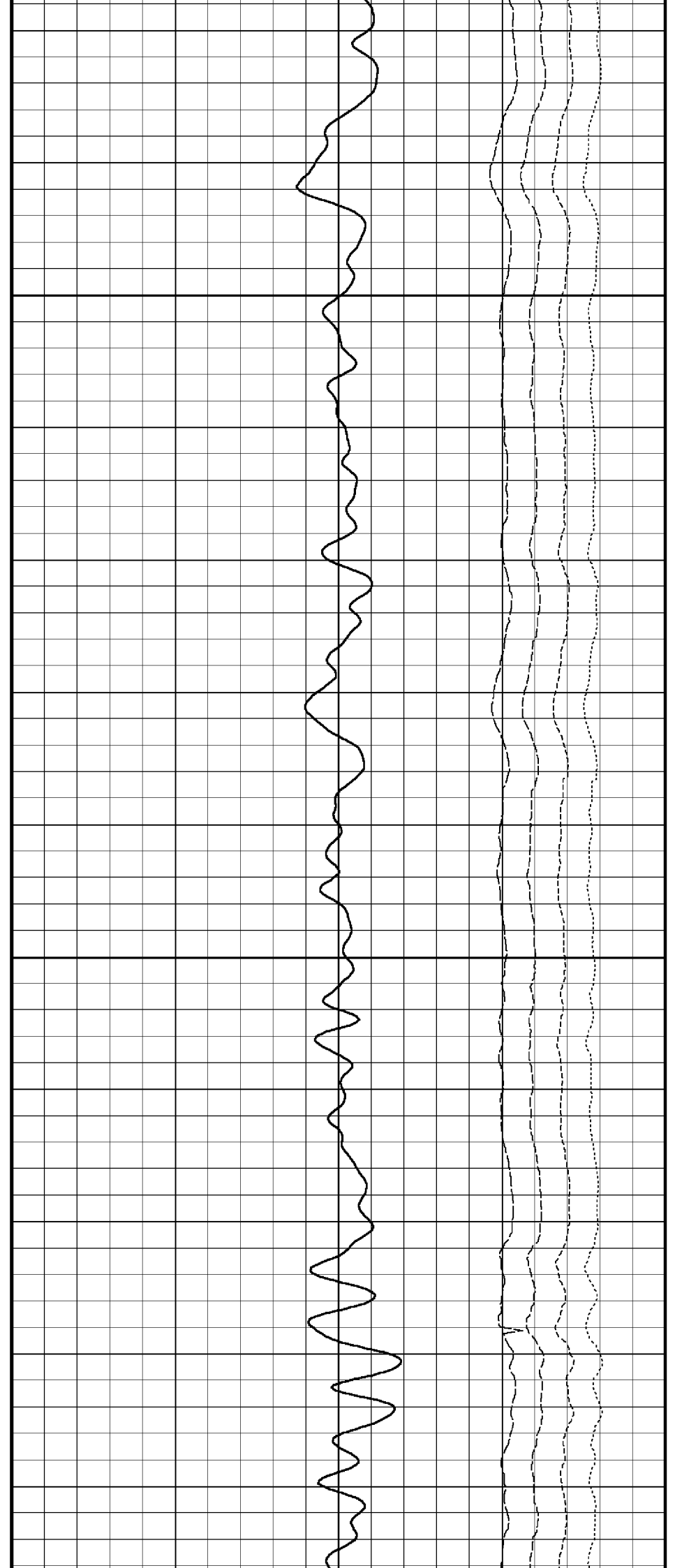
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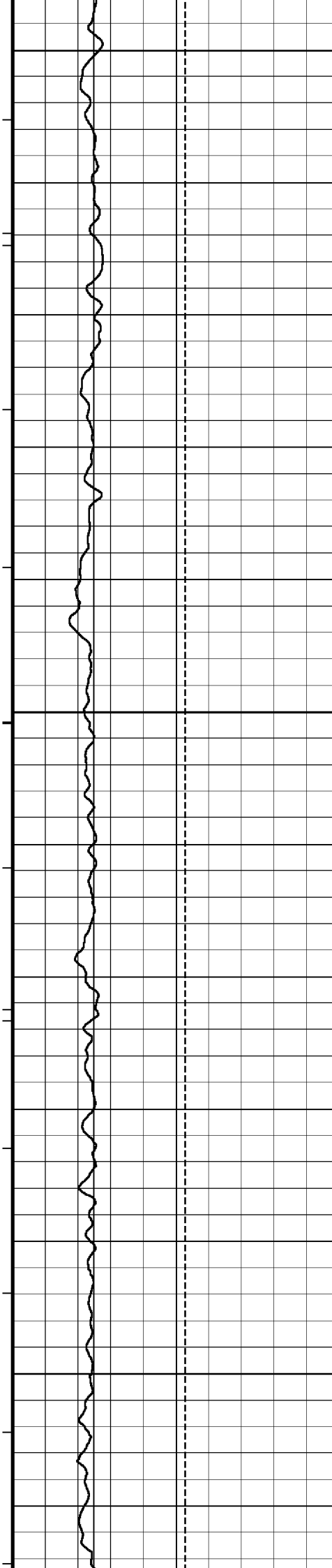
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1360

64°

1370





1380

64°

1390

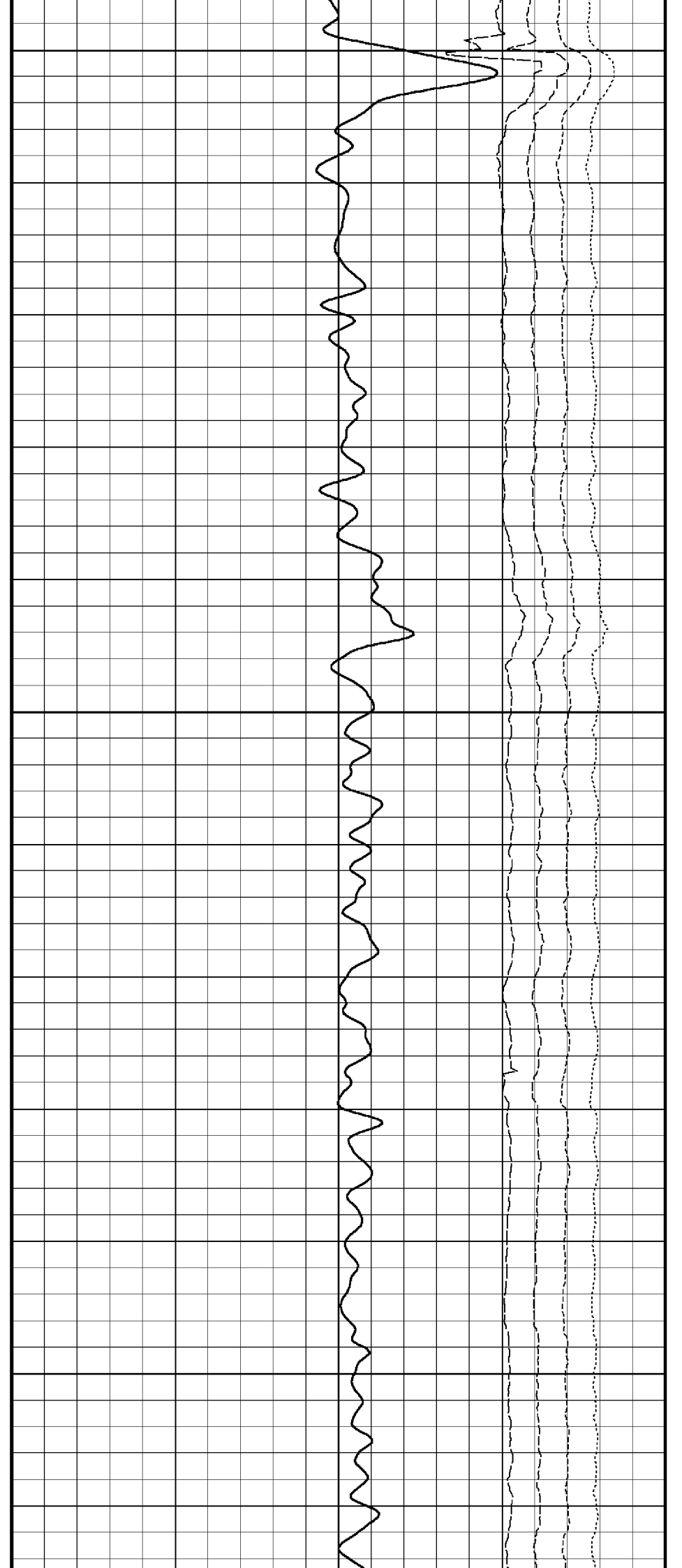
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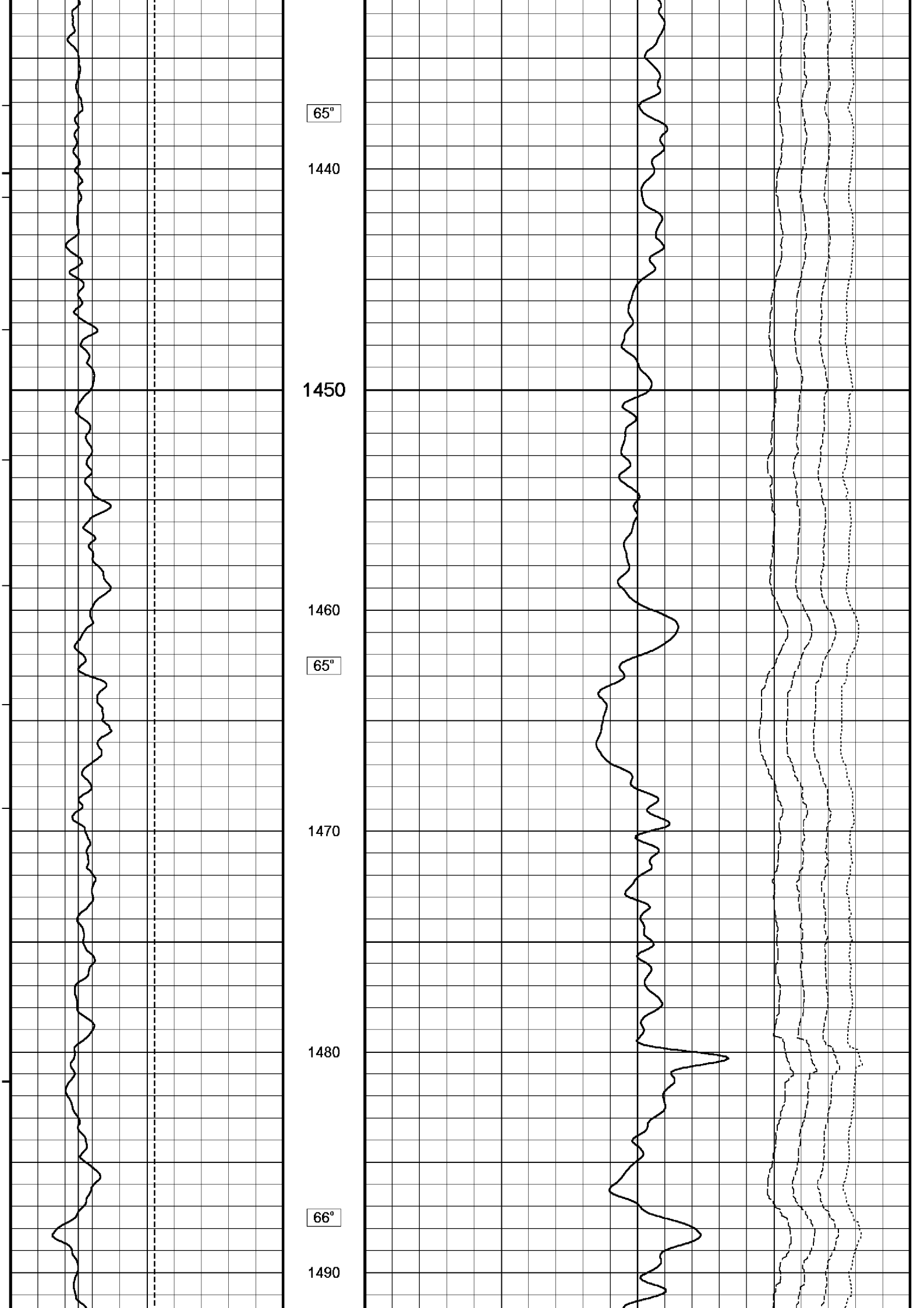
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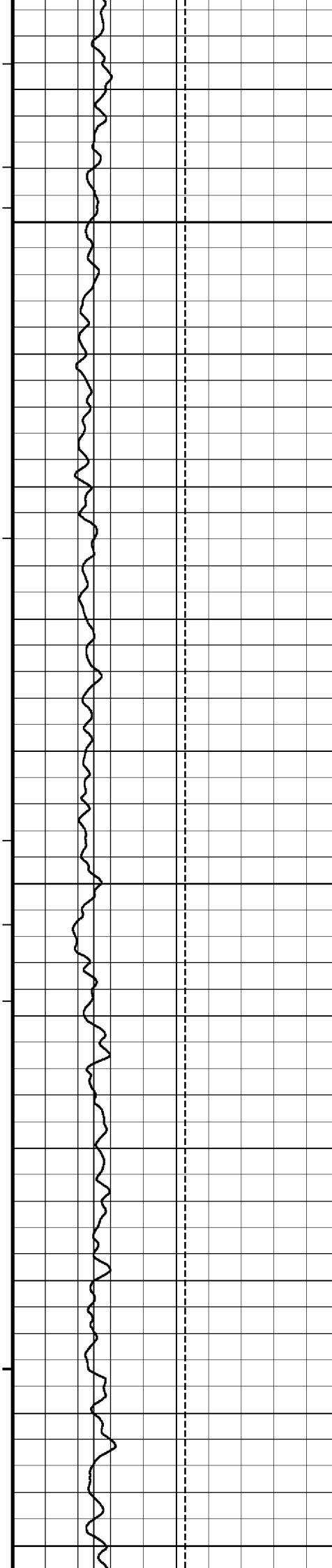
65°

1420

1430







1500

1510

66°

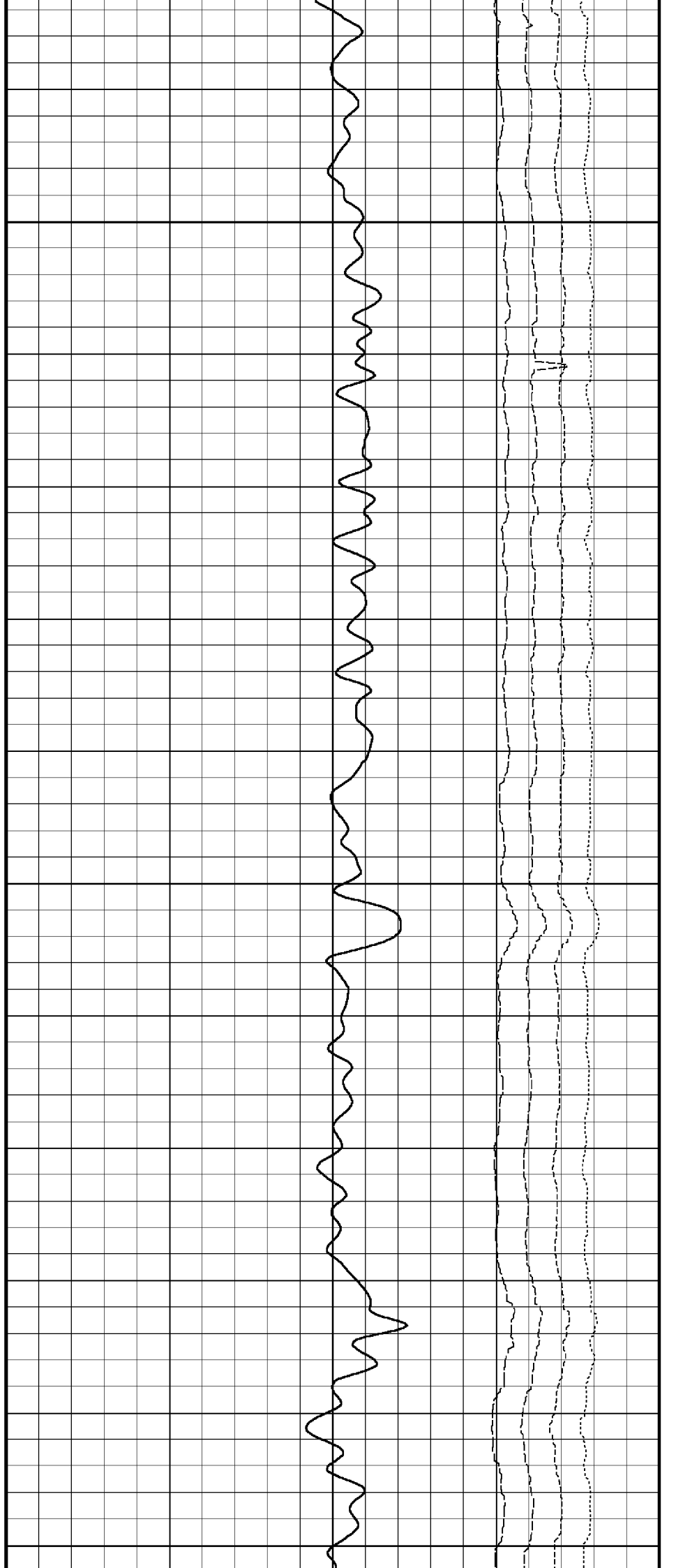
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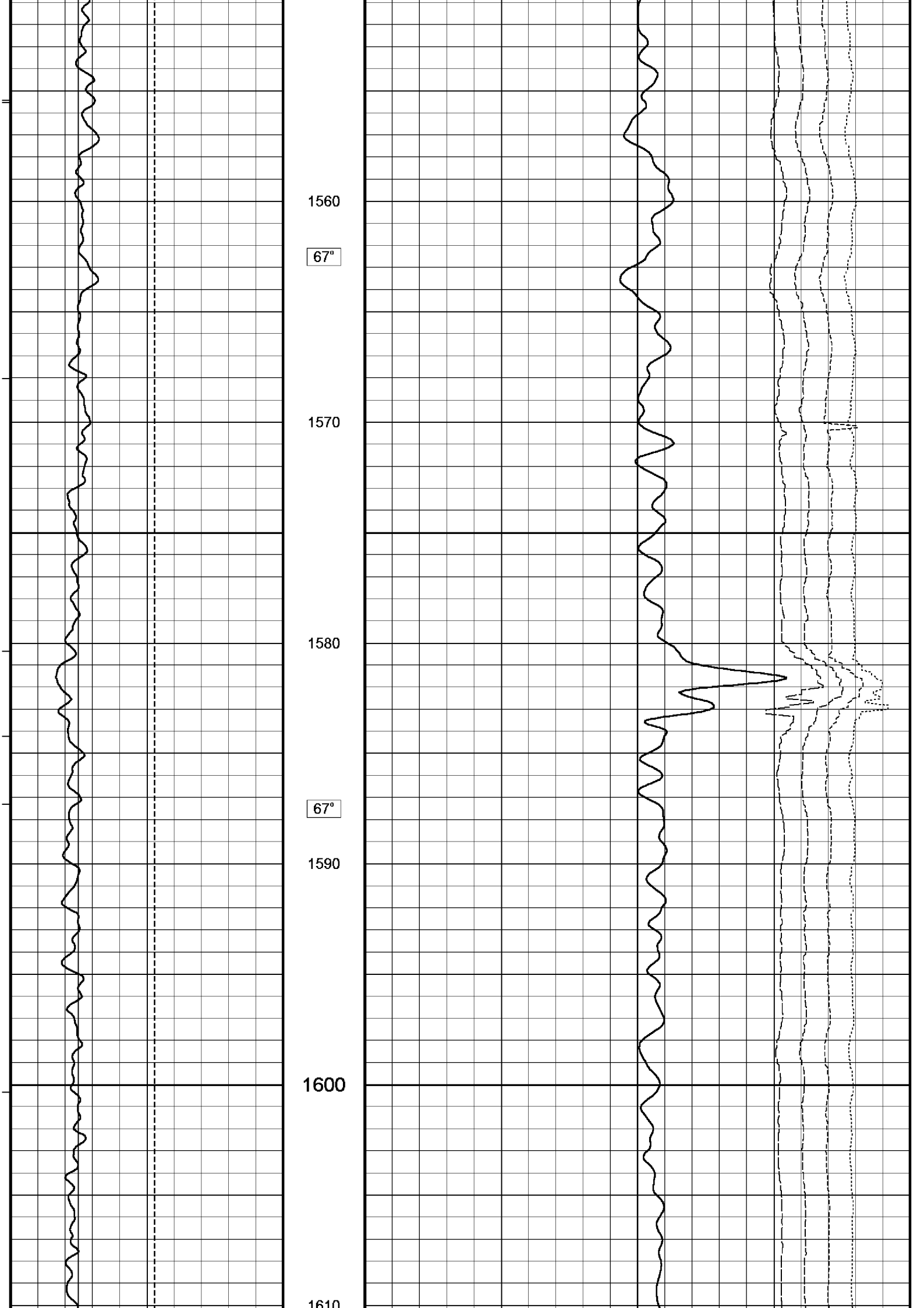
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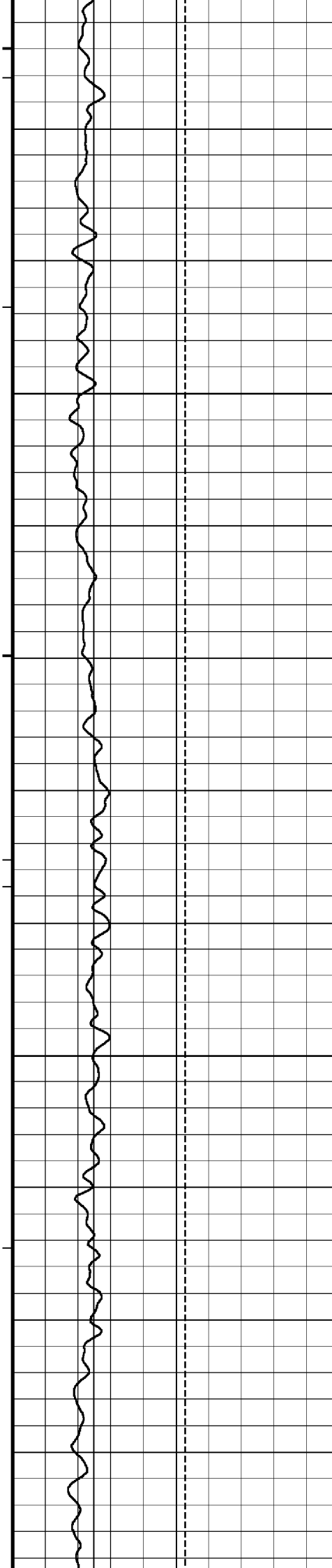
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1540

1550







68°

1620

1630

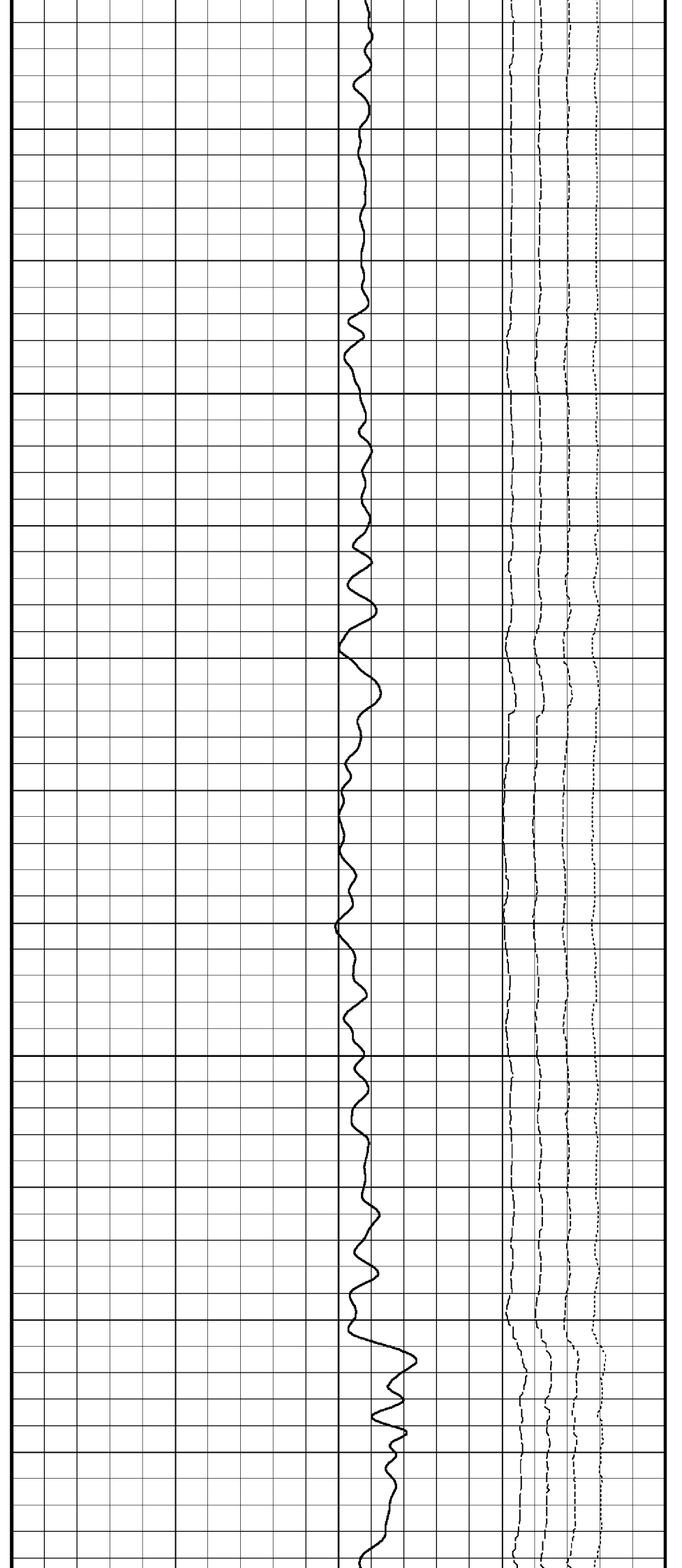
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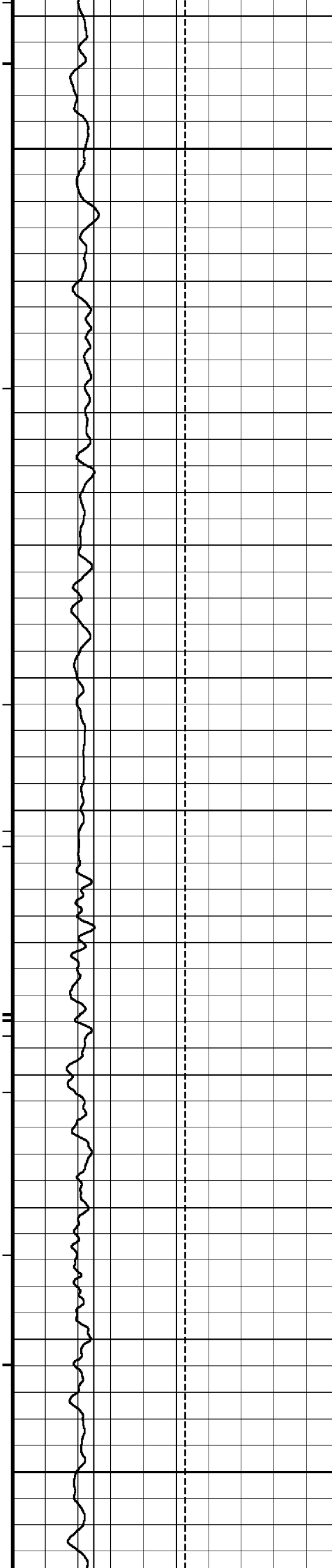
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1650

1660

69°





1670

1680

69°

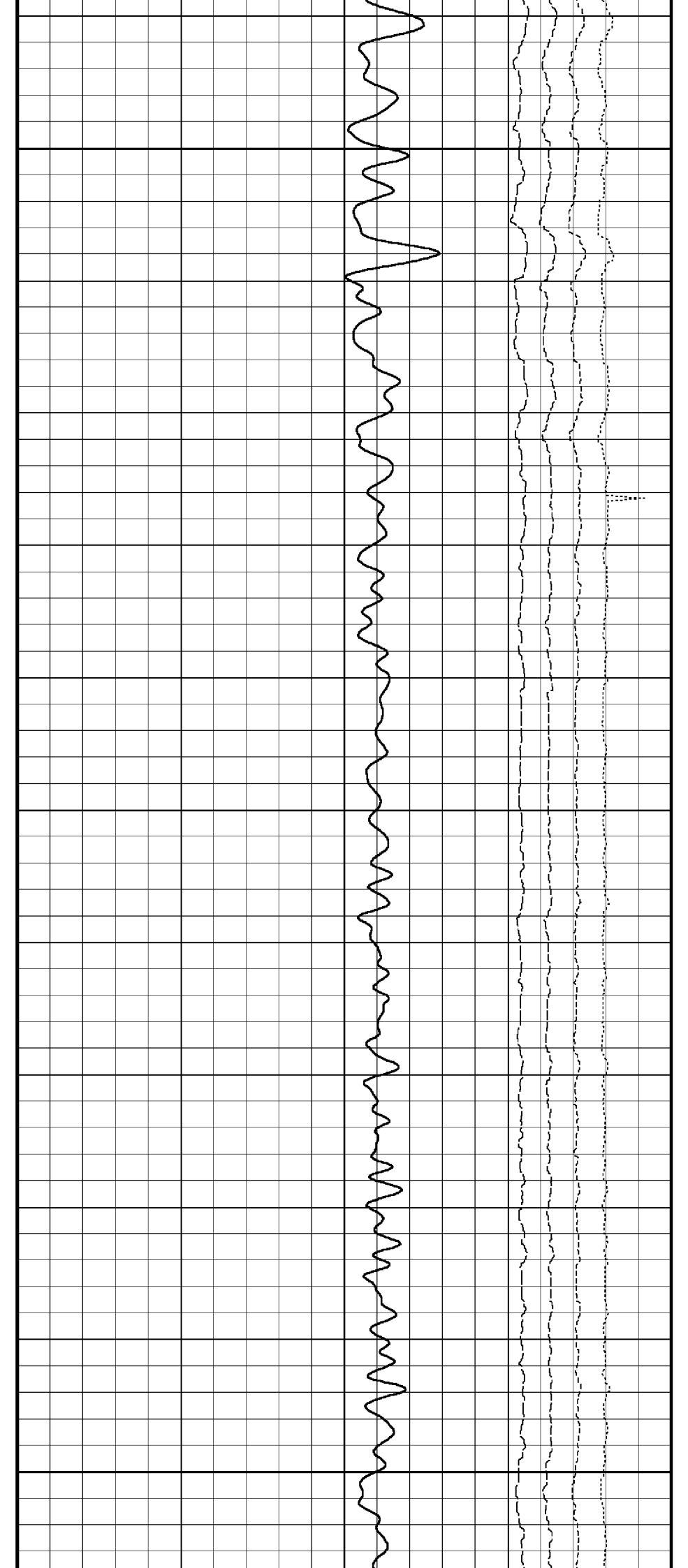
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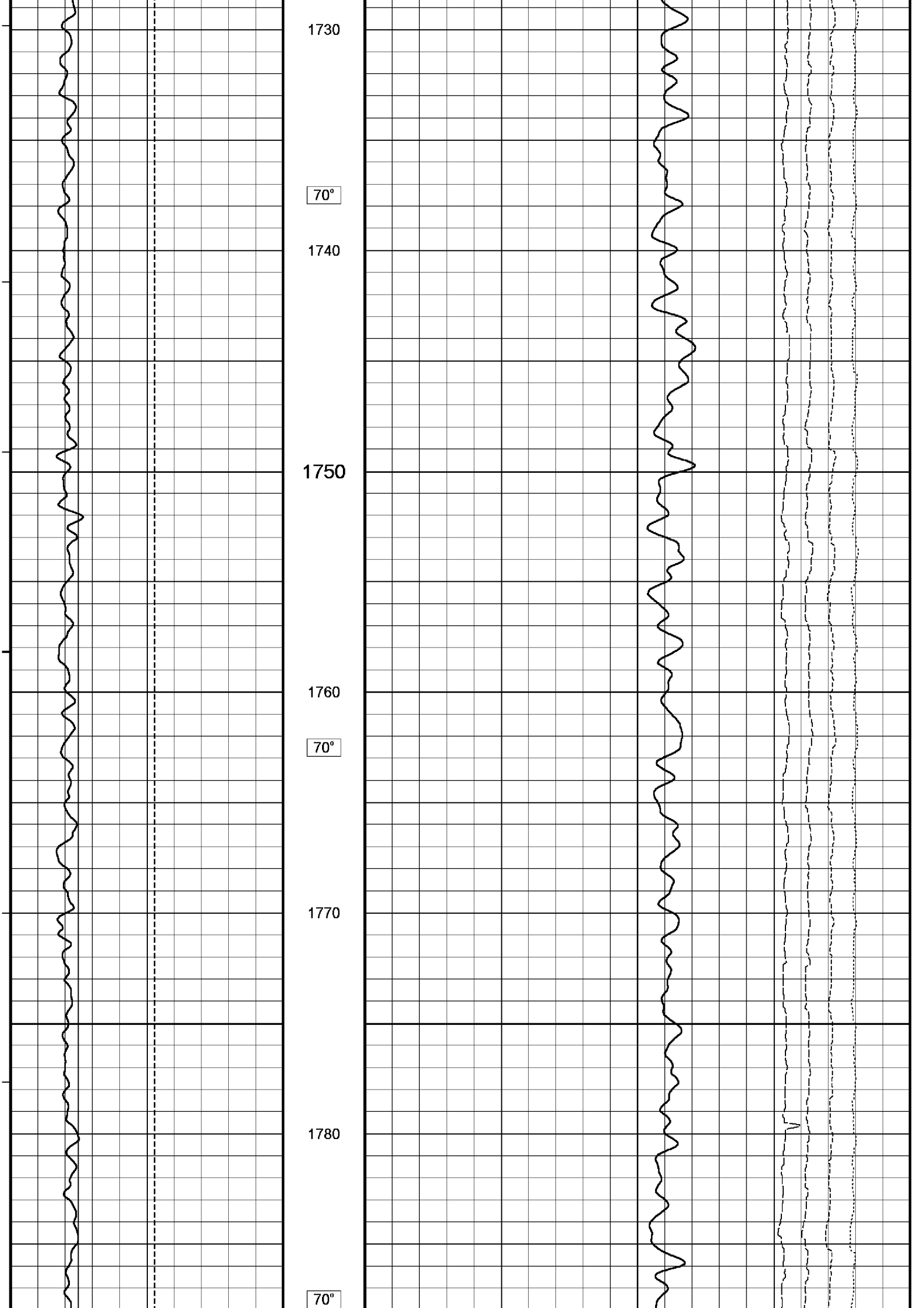
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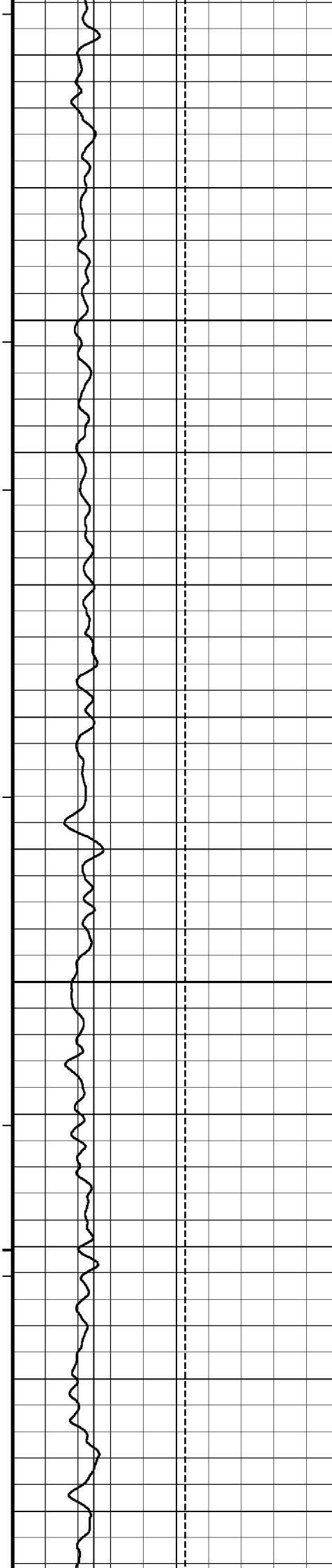
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69°

1720







1790

1800

1810

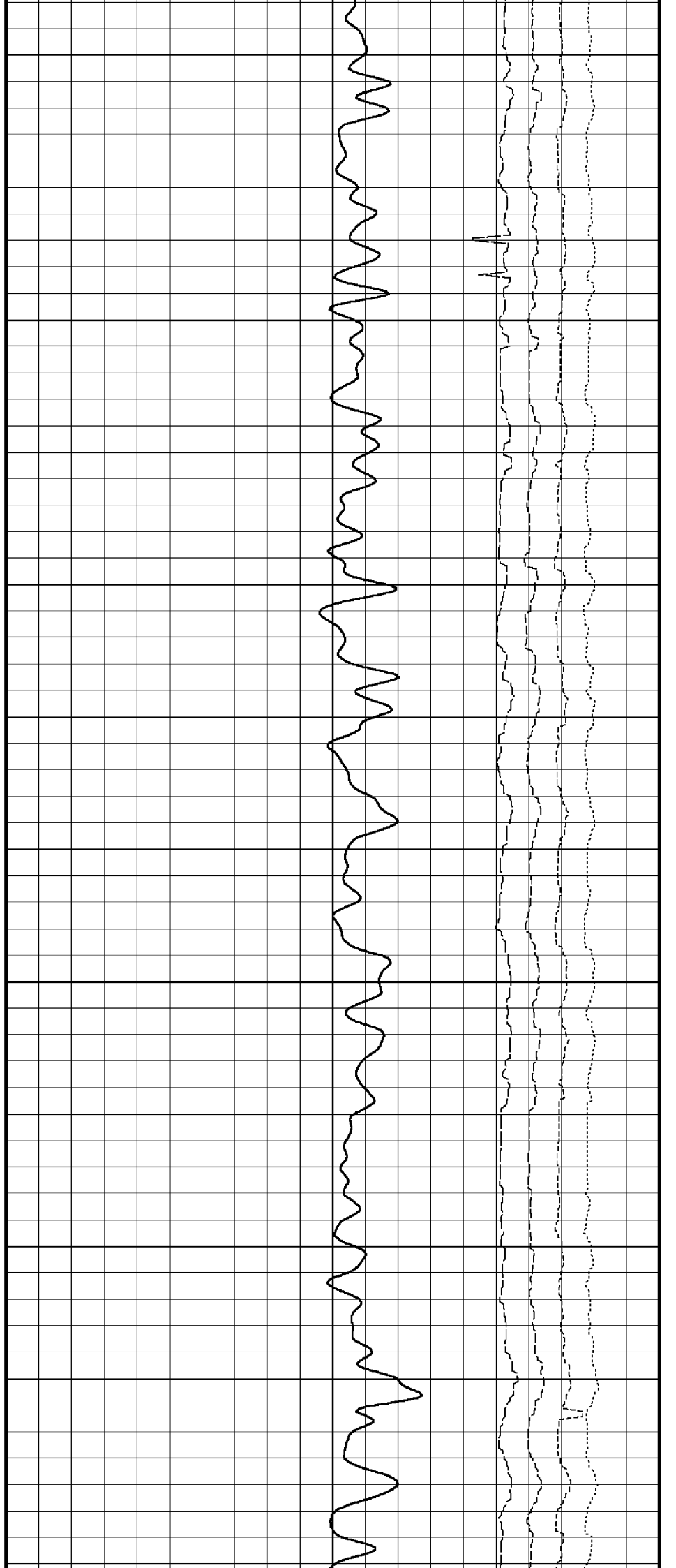
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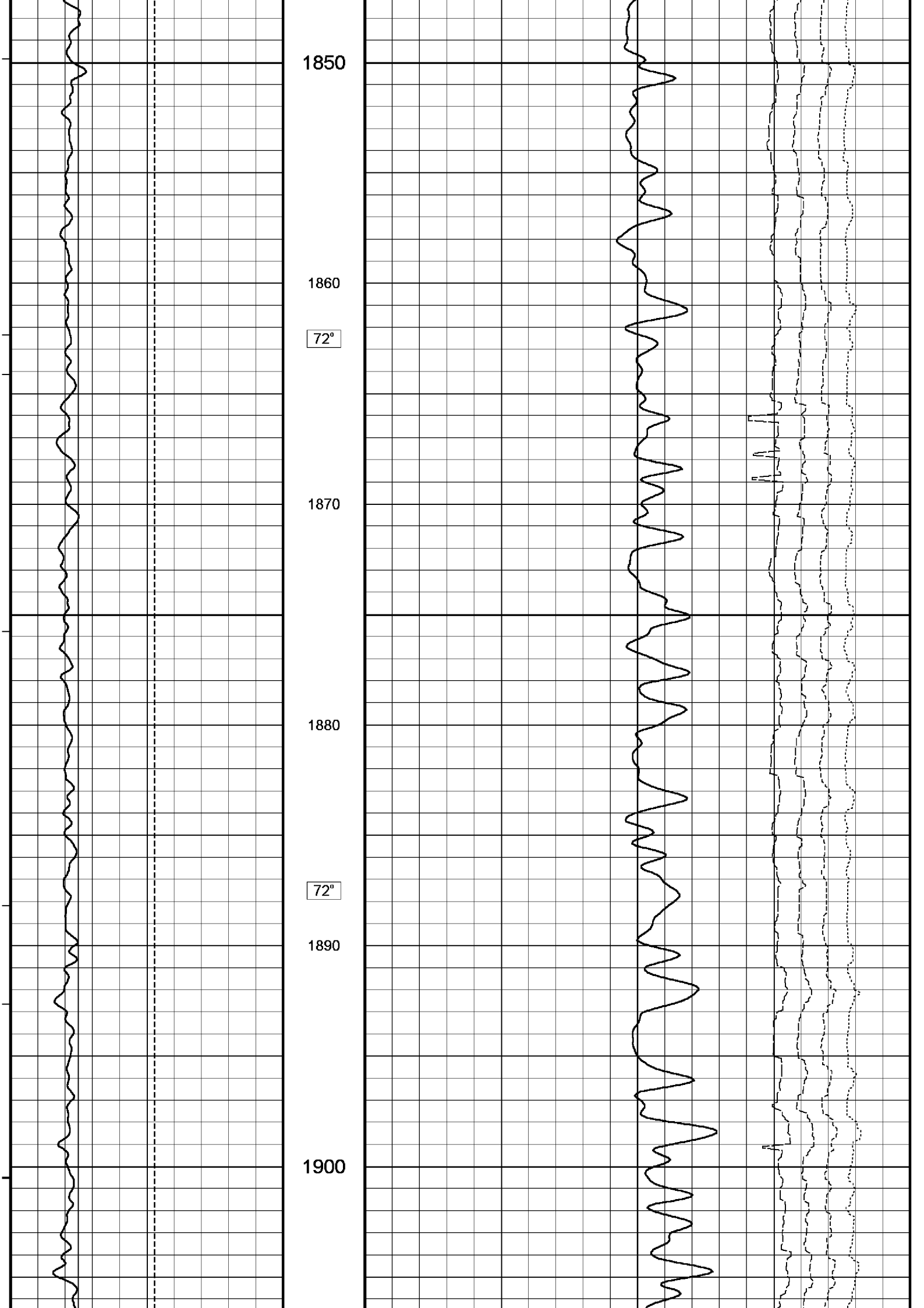
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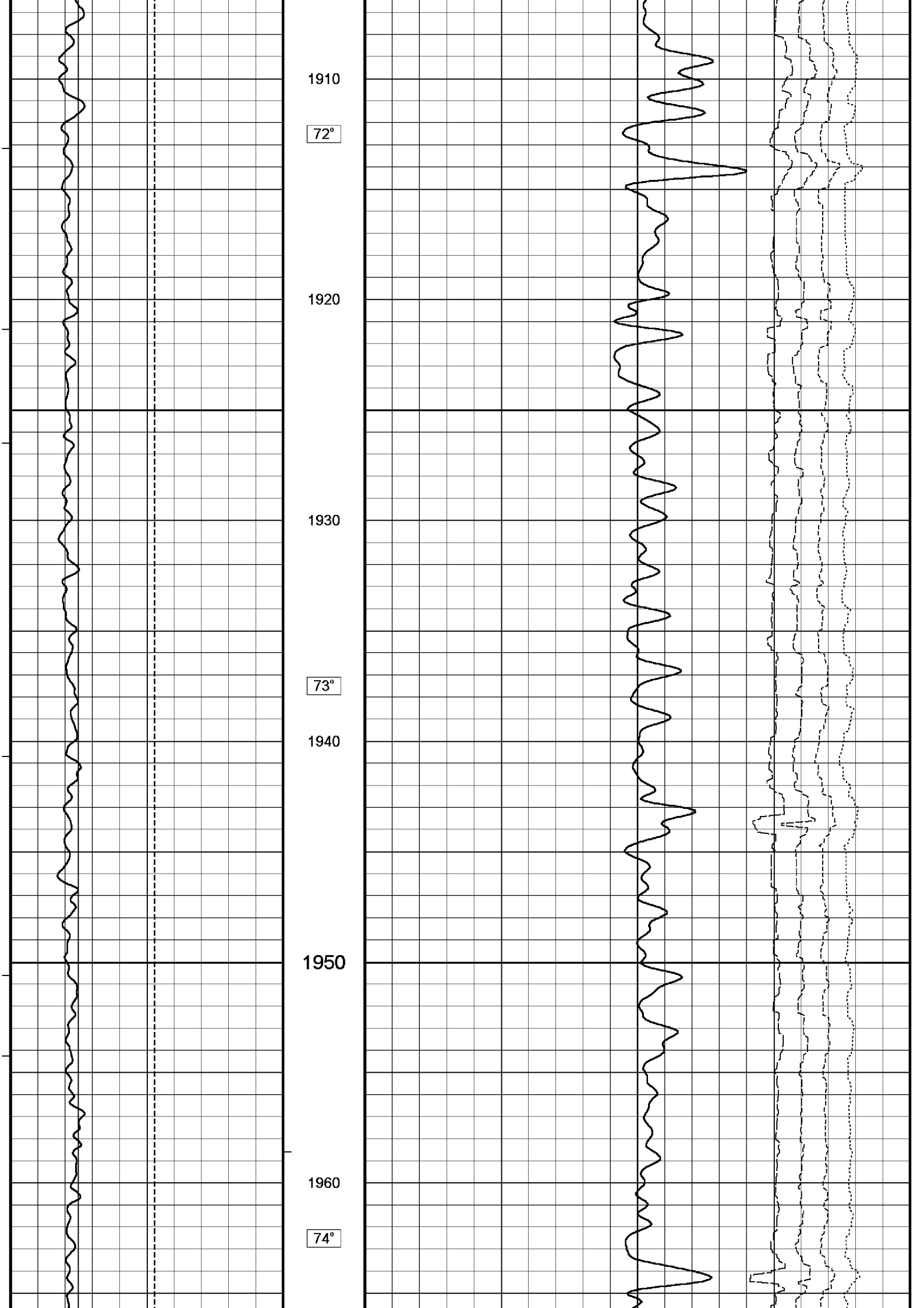
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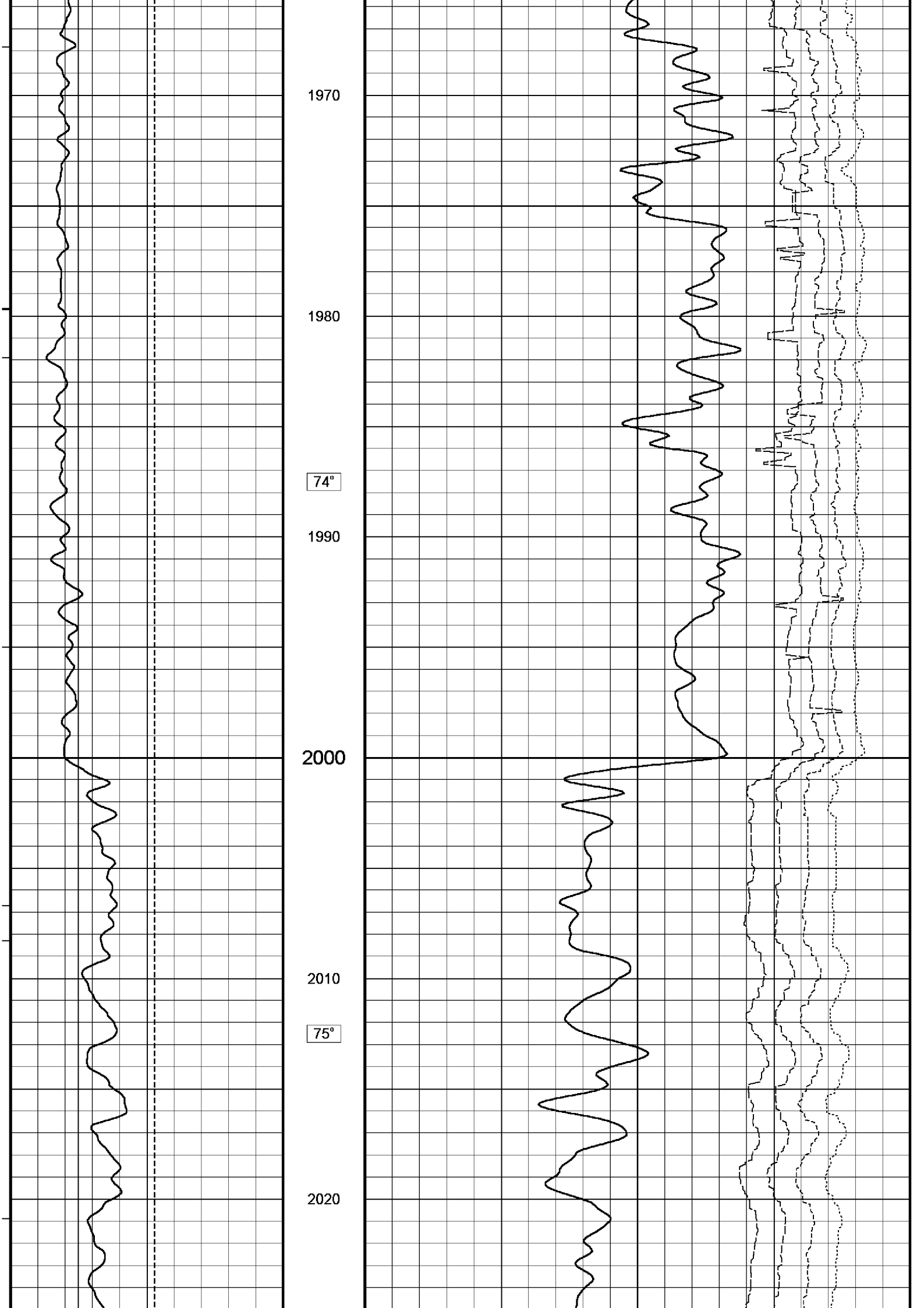
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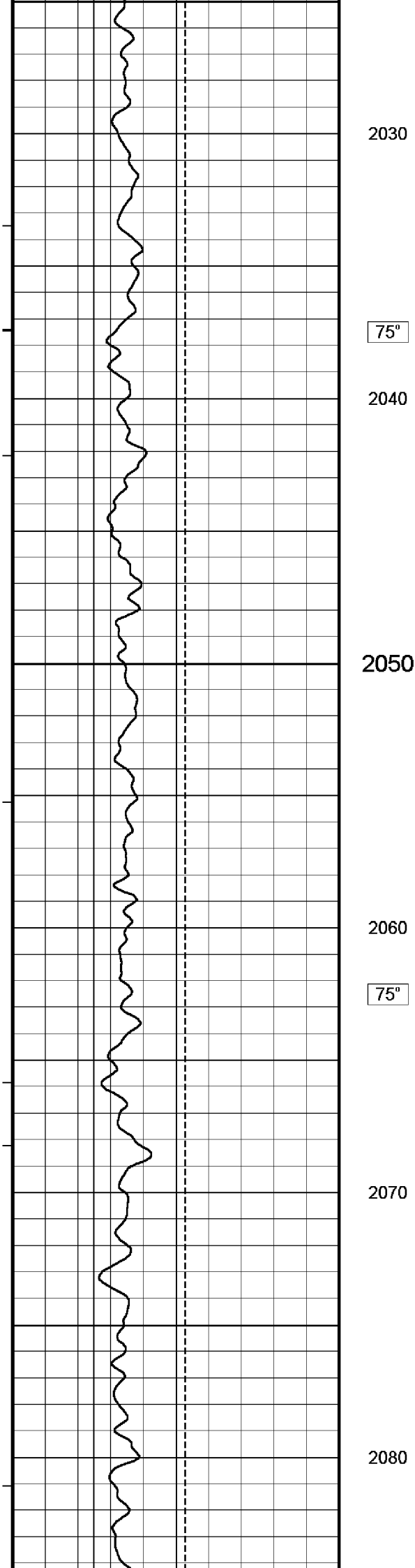
1840











2030

75°

2040

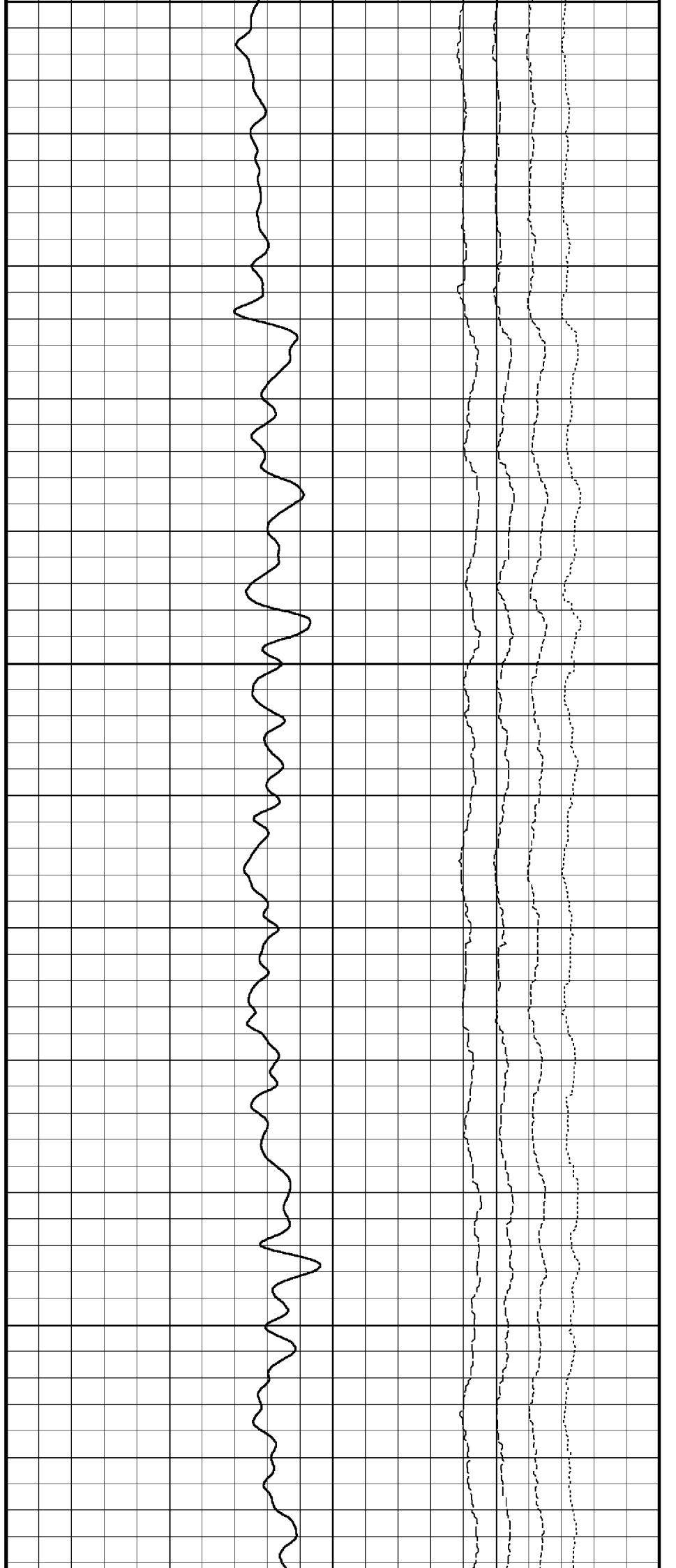
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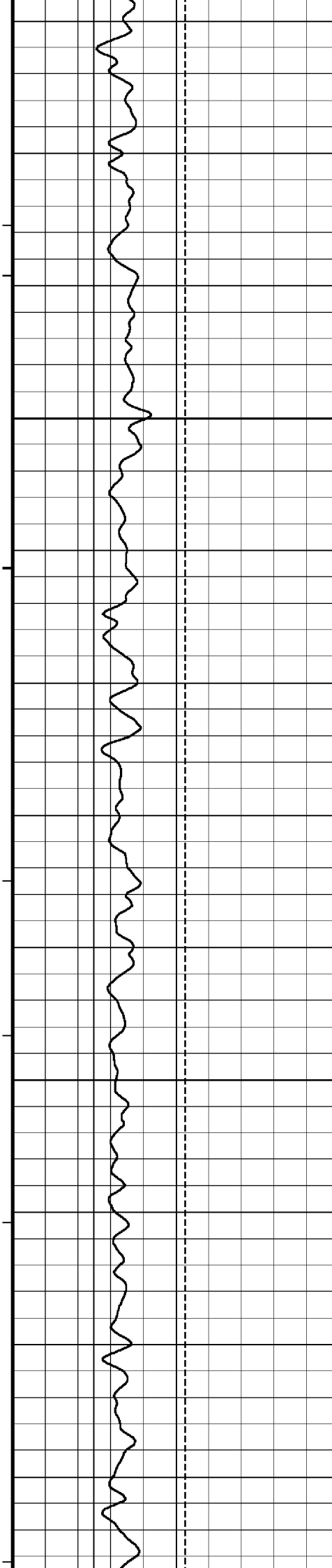
2060

75°

2070

2080





76°

2090

2100

2110

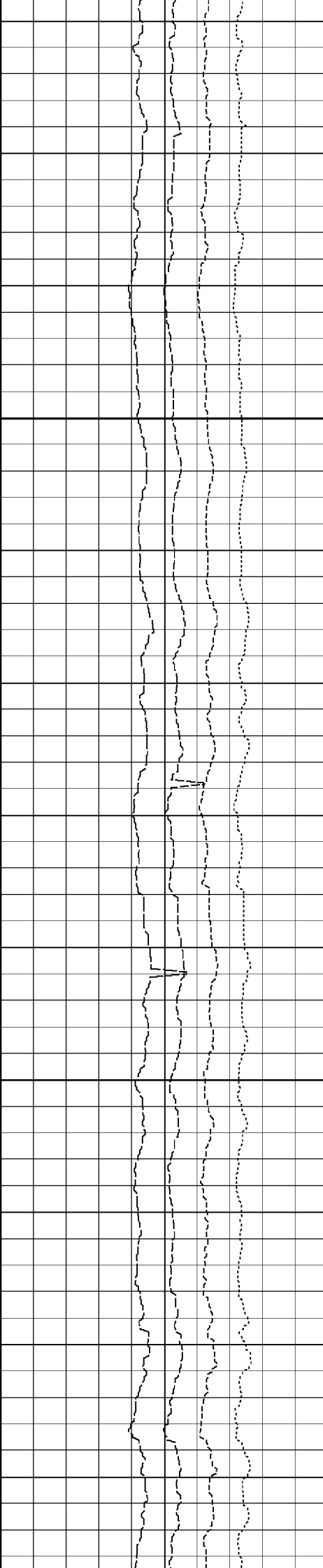
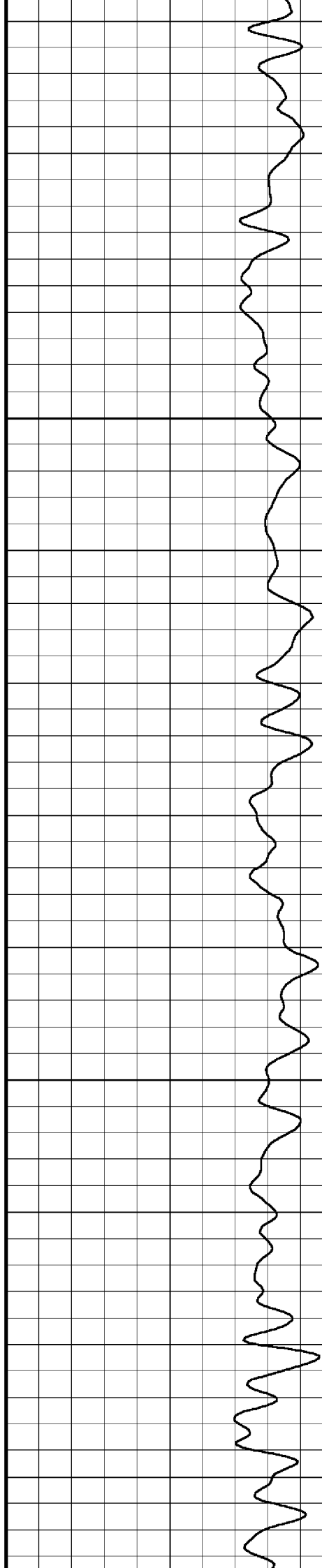
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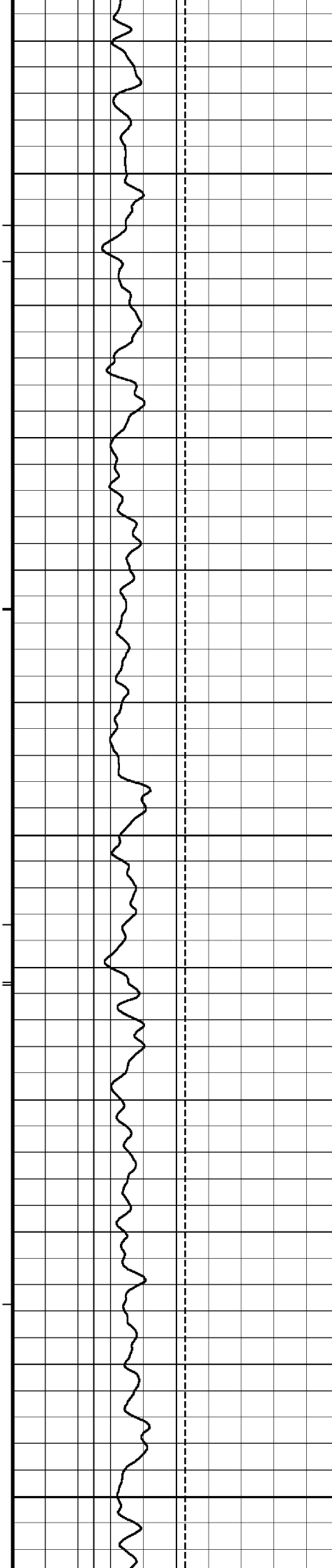
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2130

76°

2140





2150

2160

77°

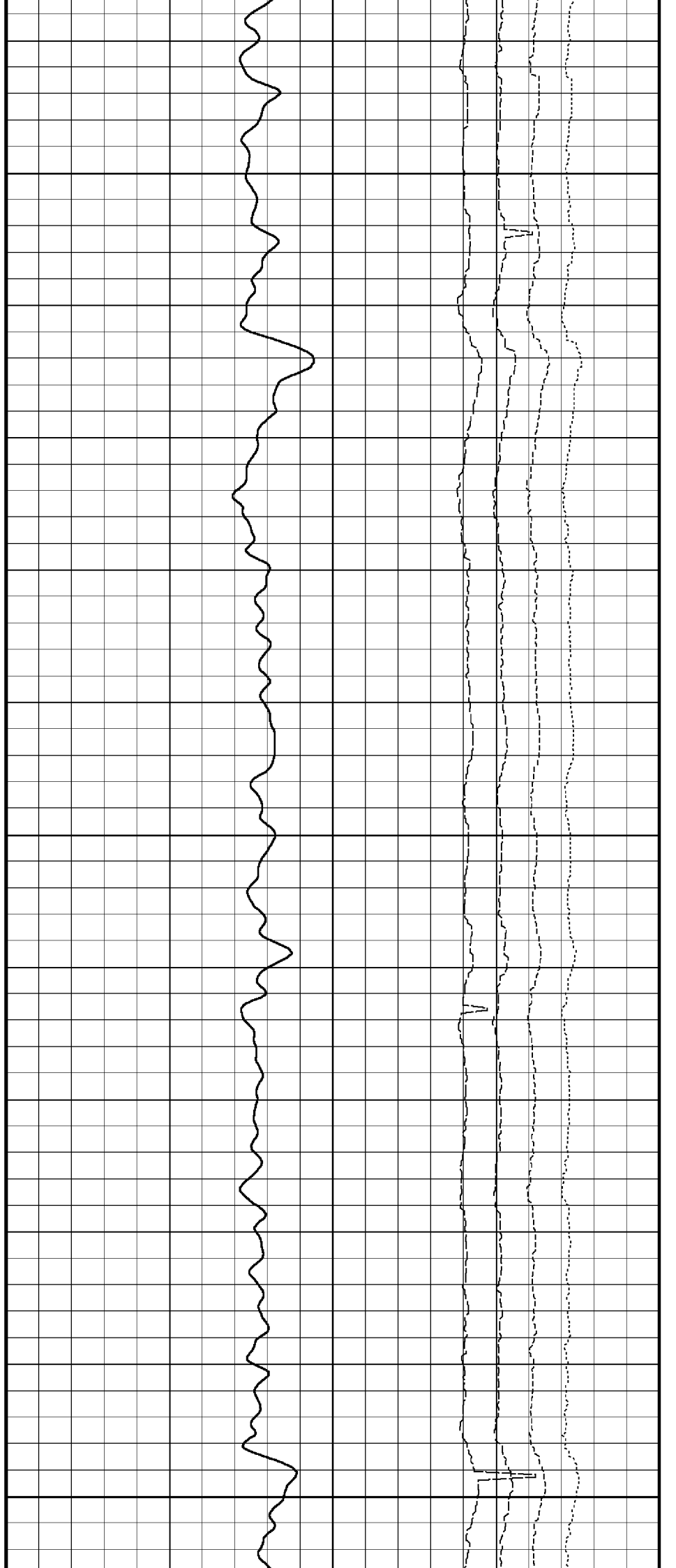
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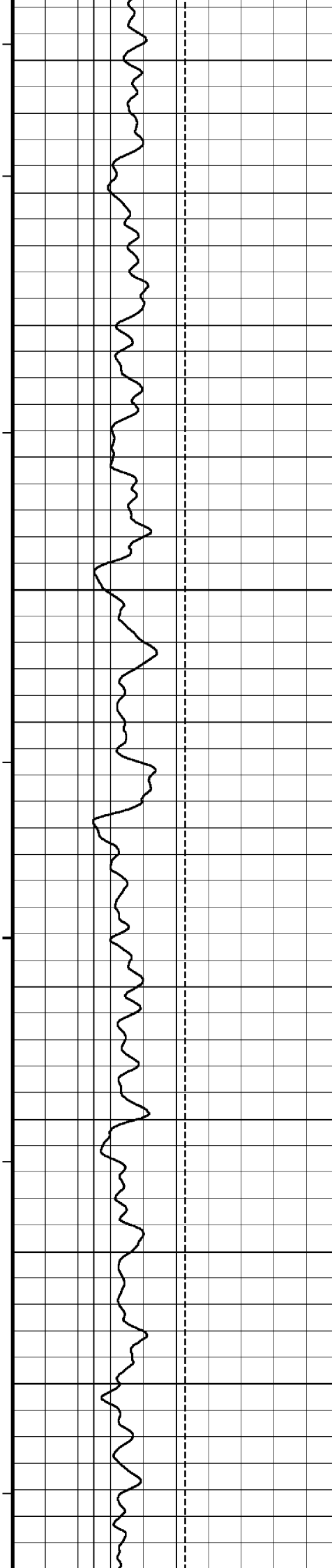
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77°

2190

2200





2210

77°

2220

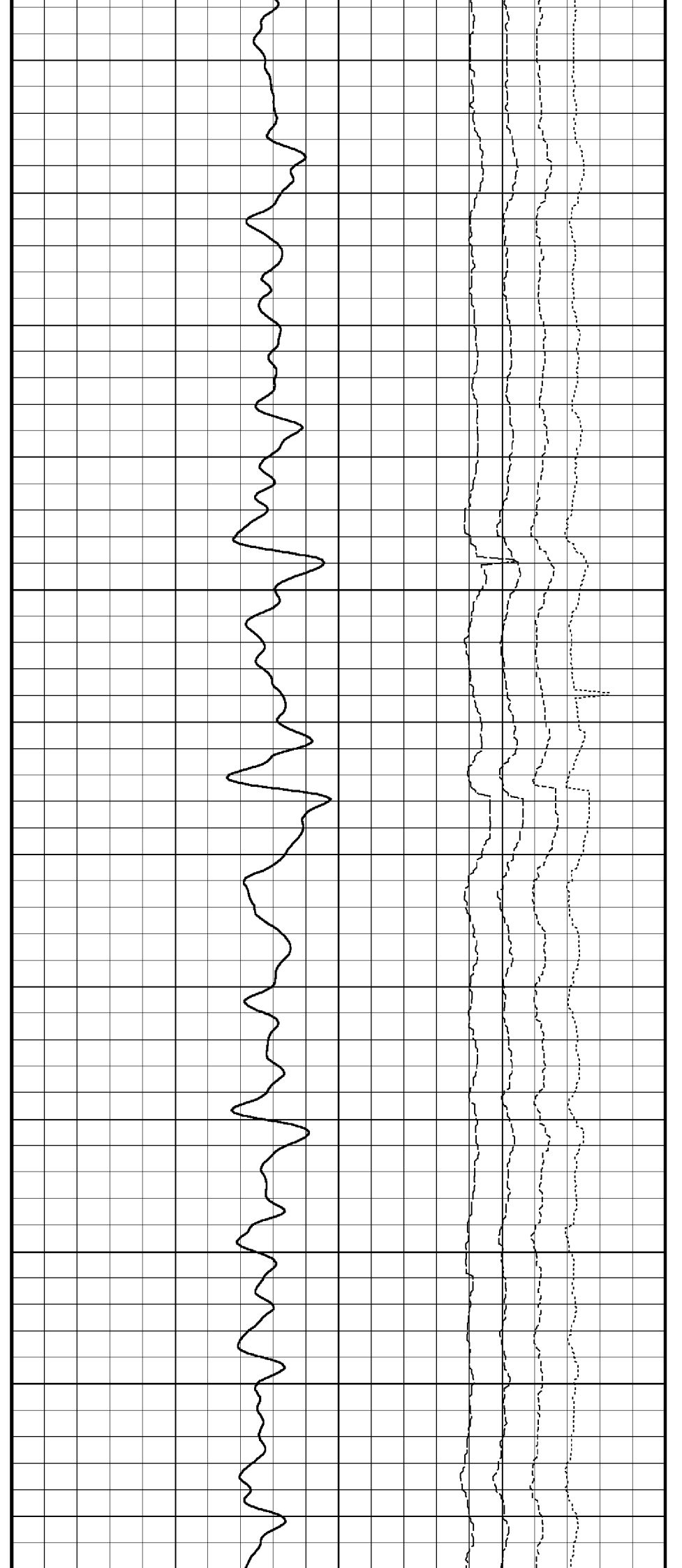
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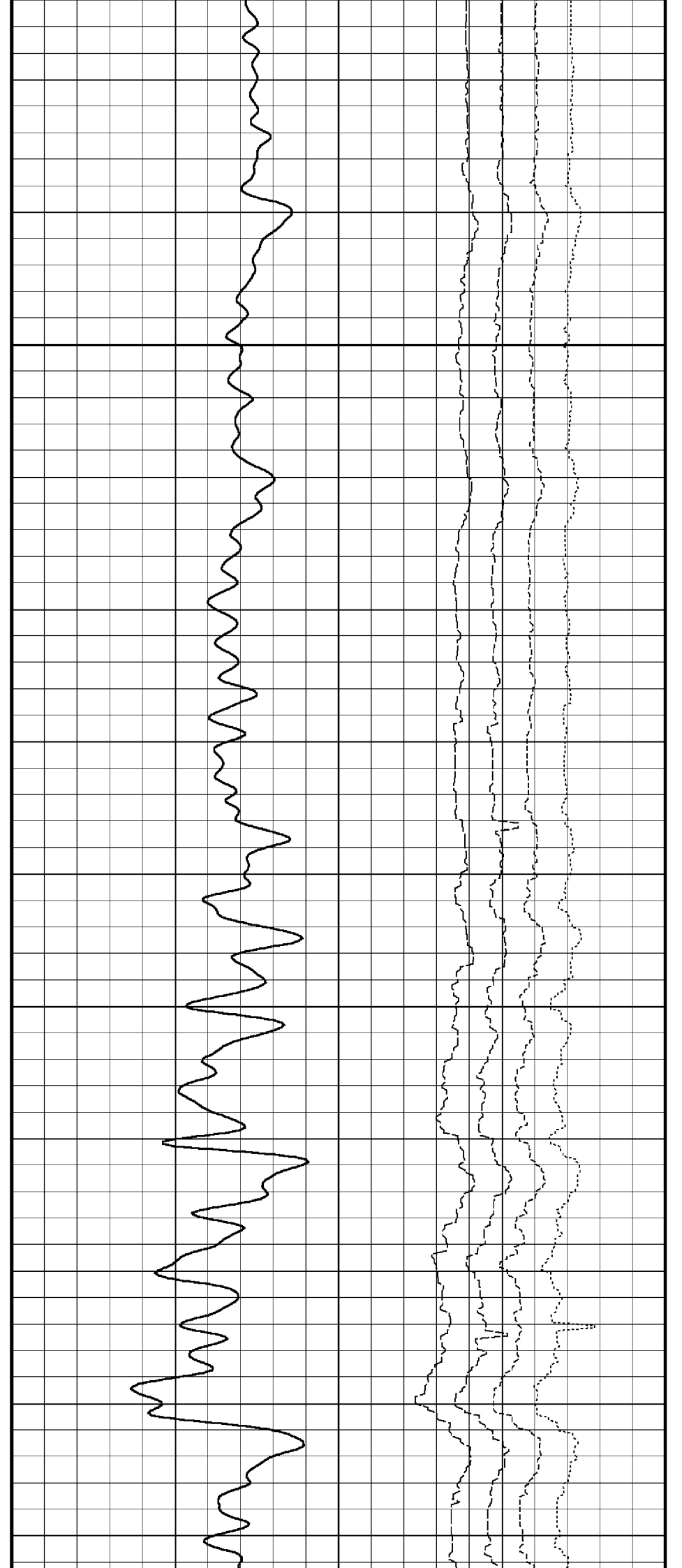
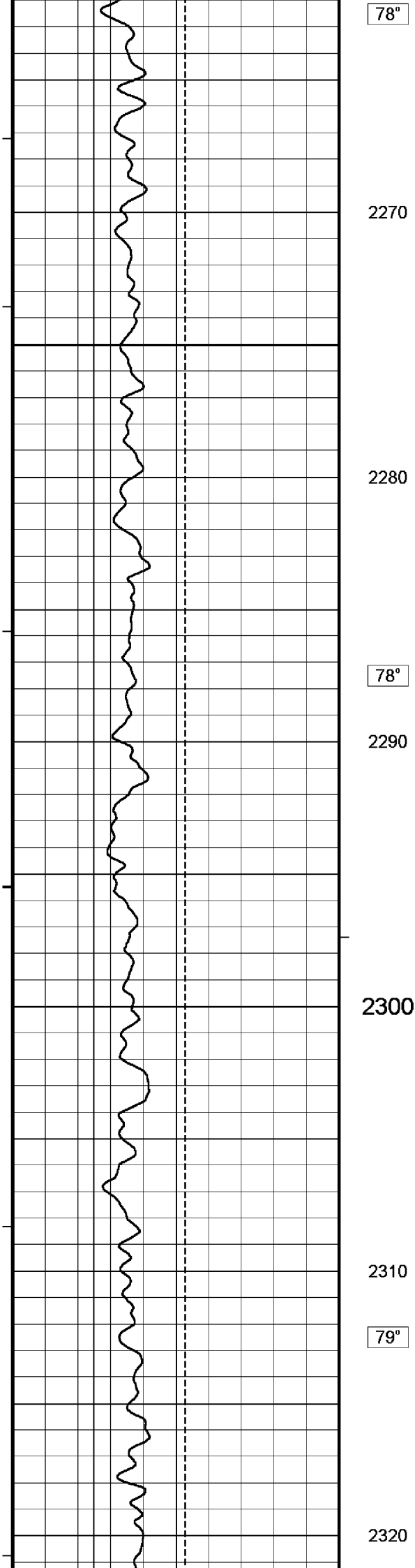
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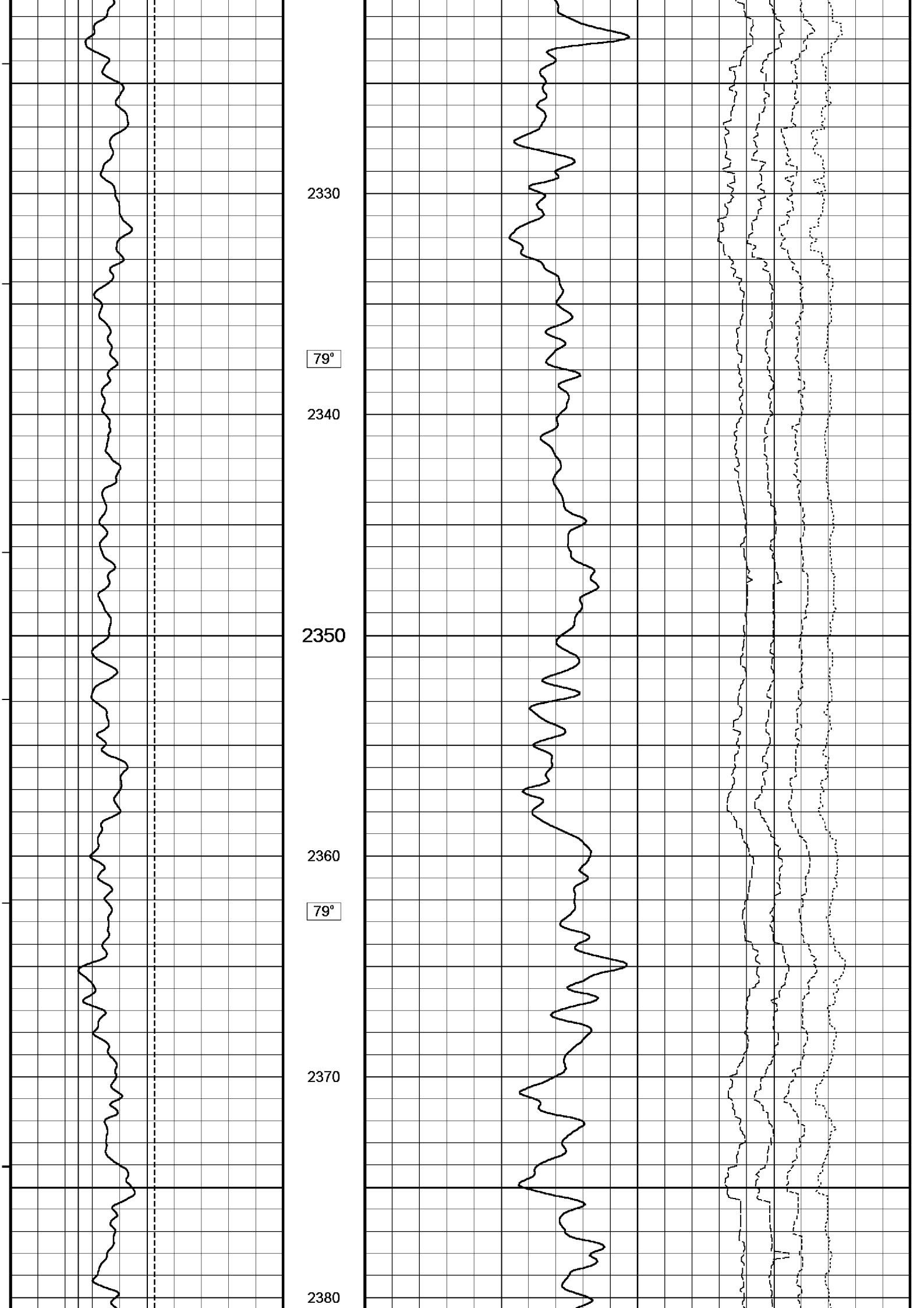
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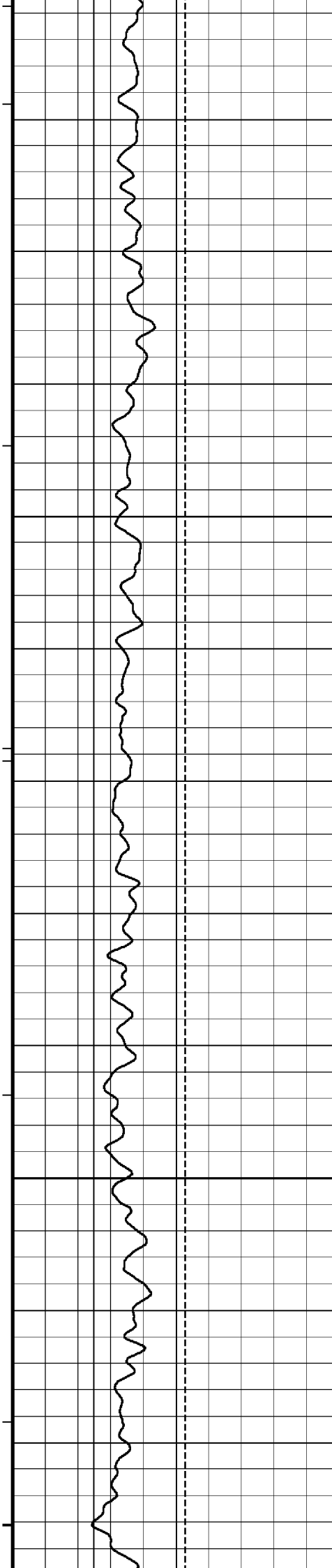
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2260









80°

2390

2400

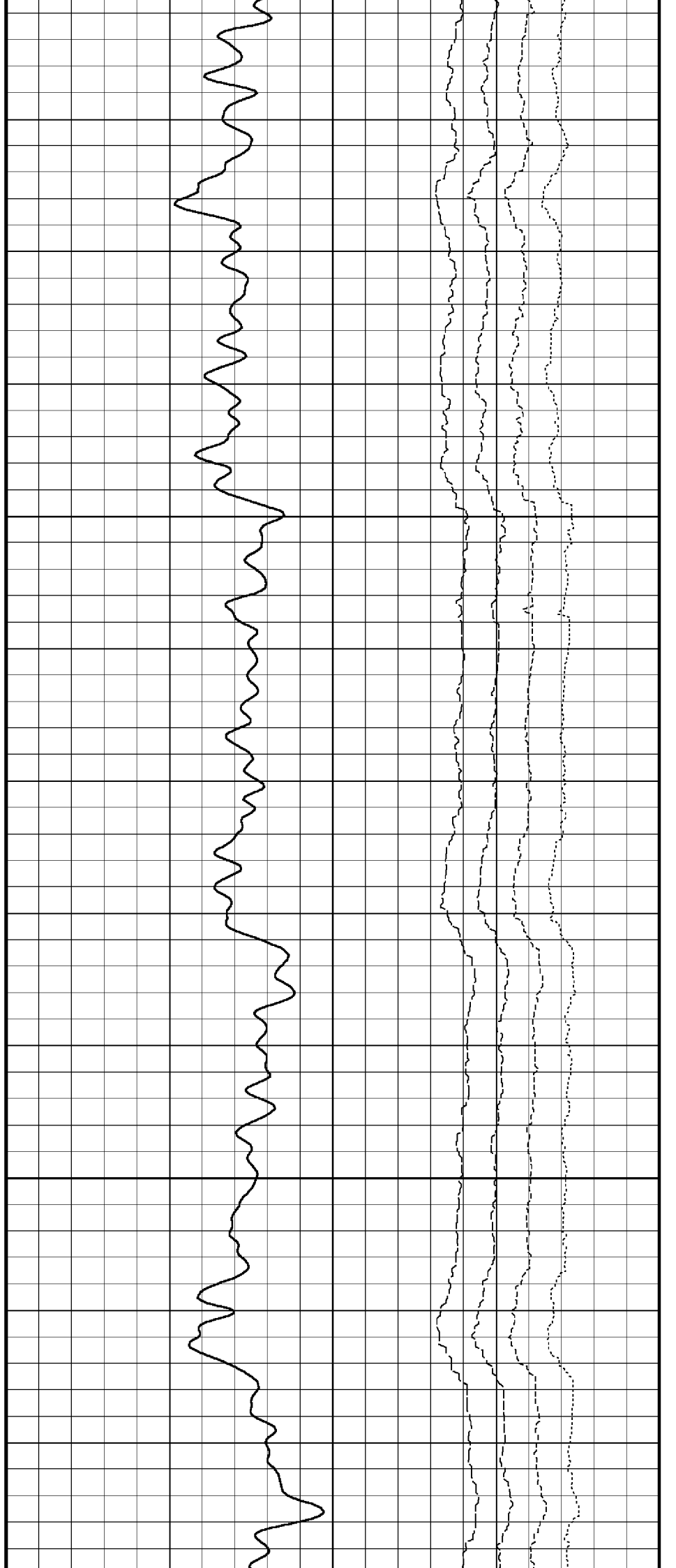
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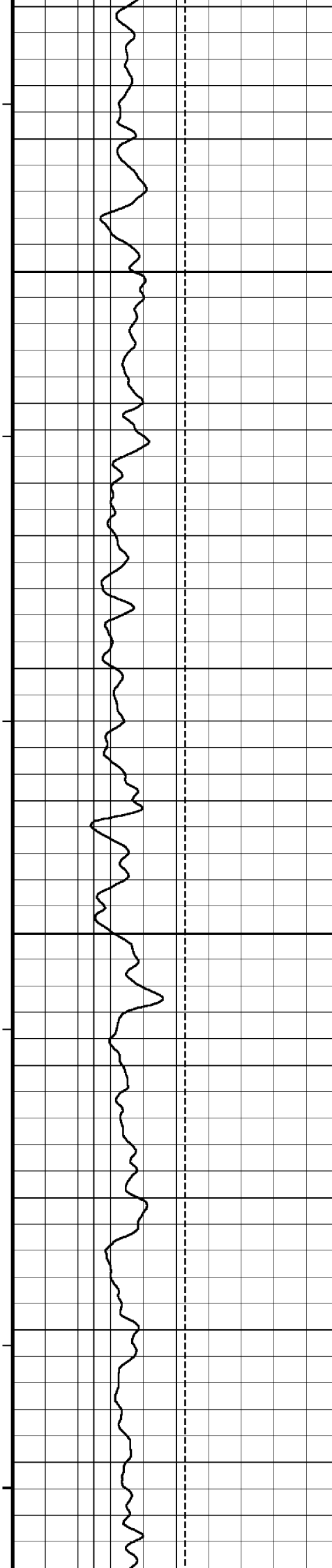
80°

2420

2430

80°





2440

2450

2460

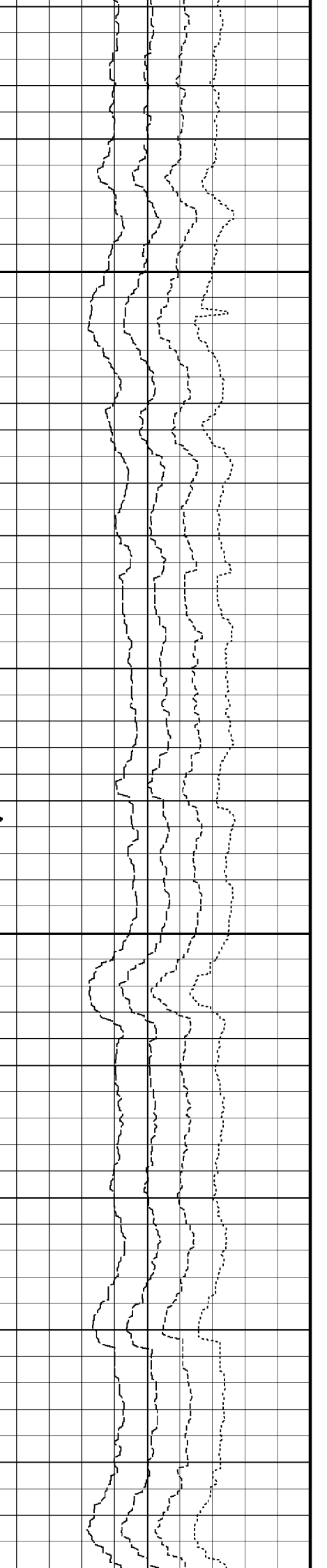
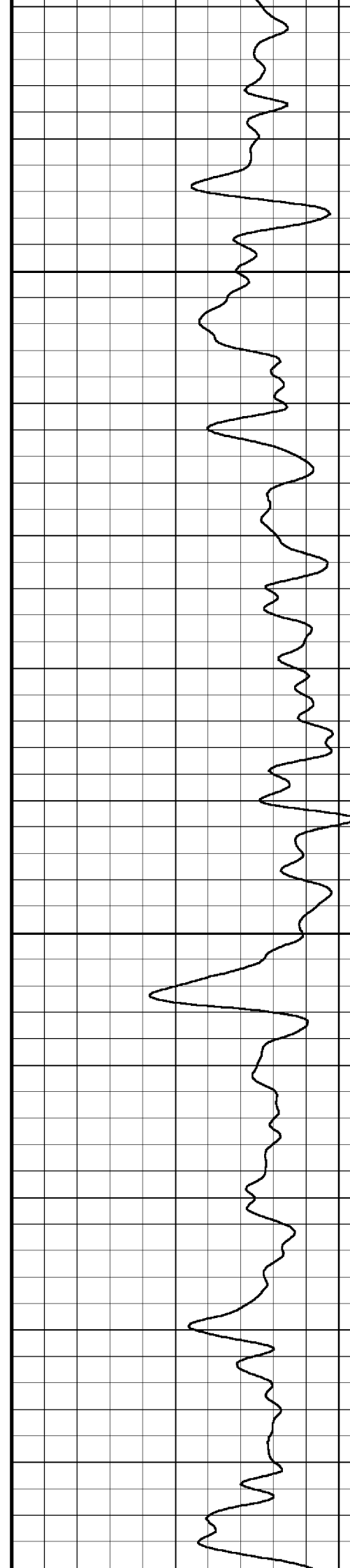
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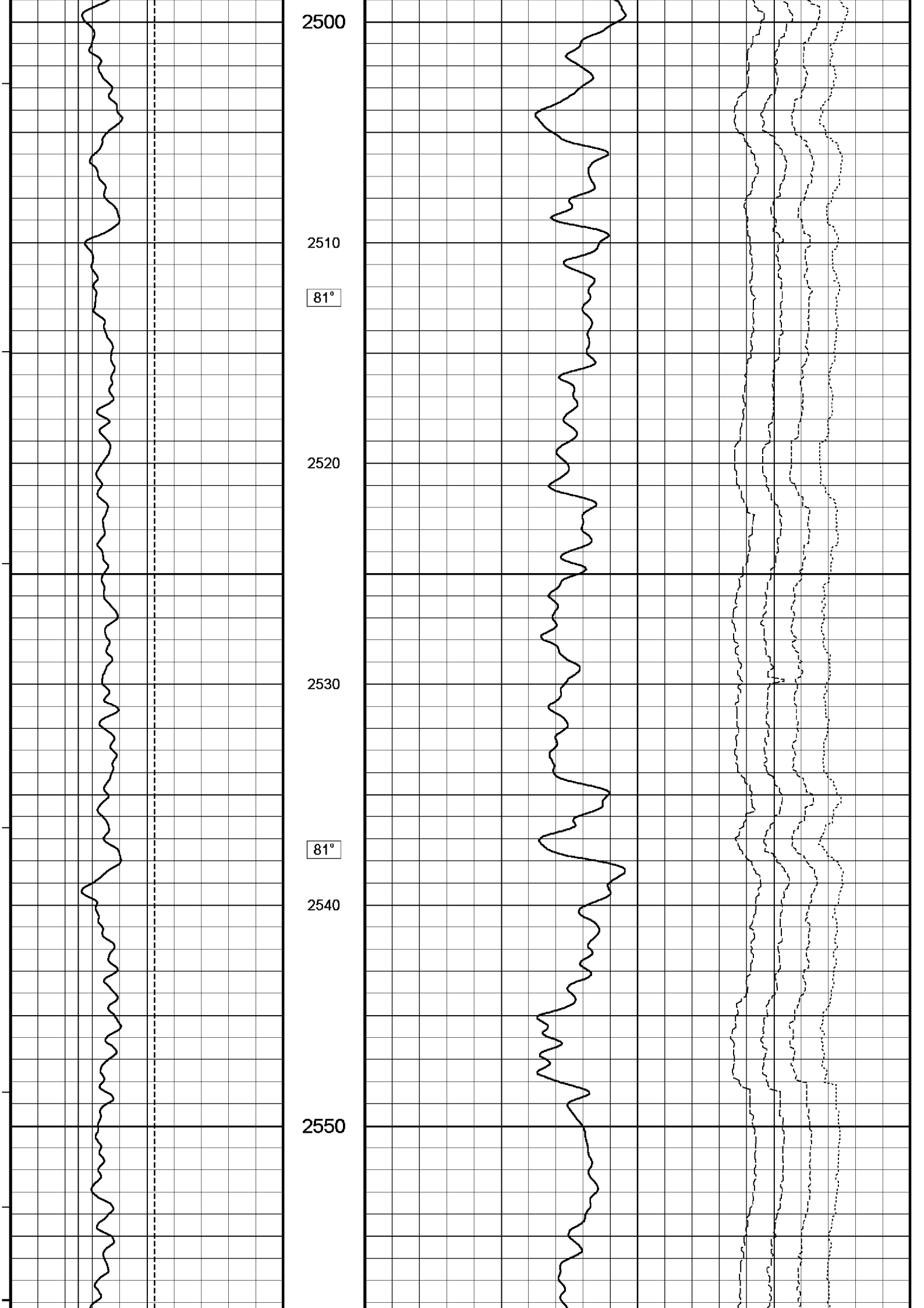
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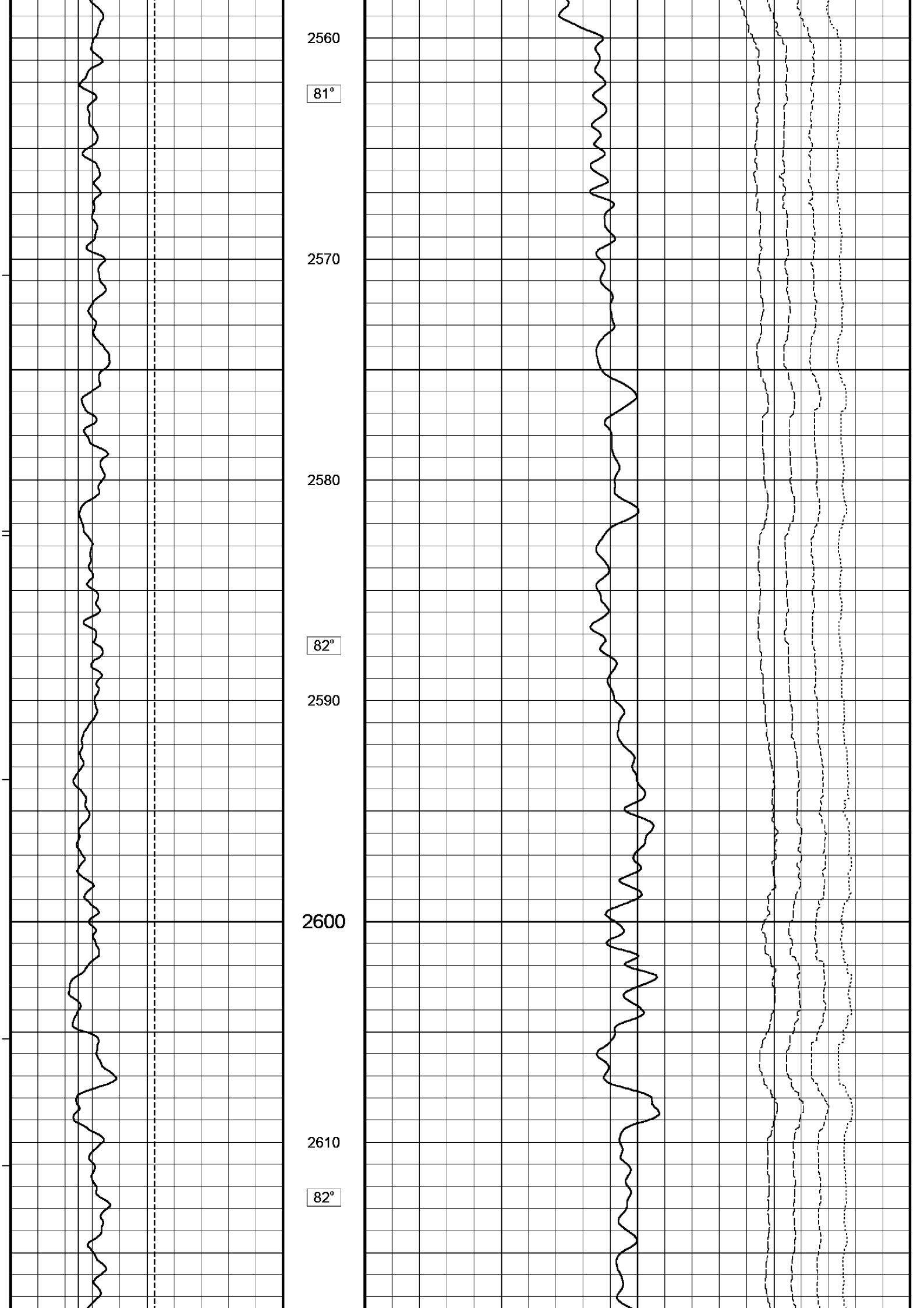
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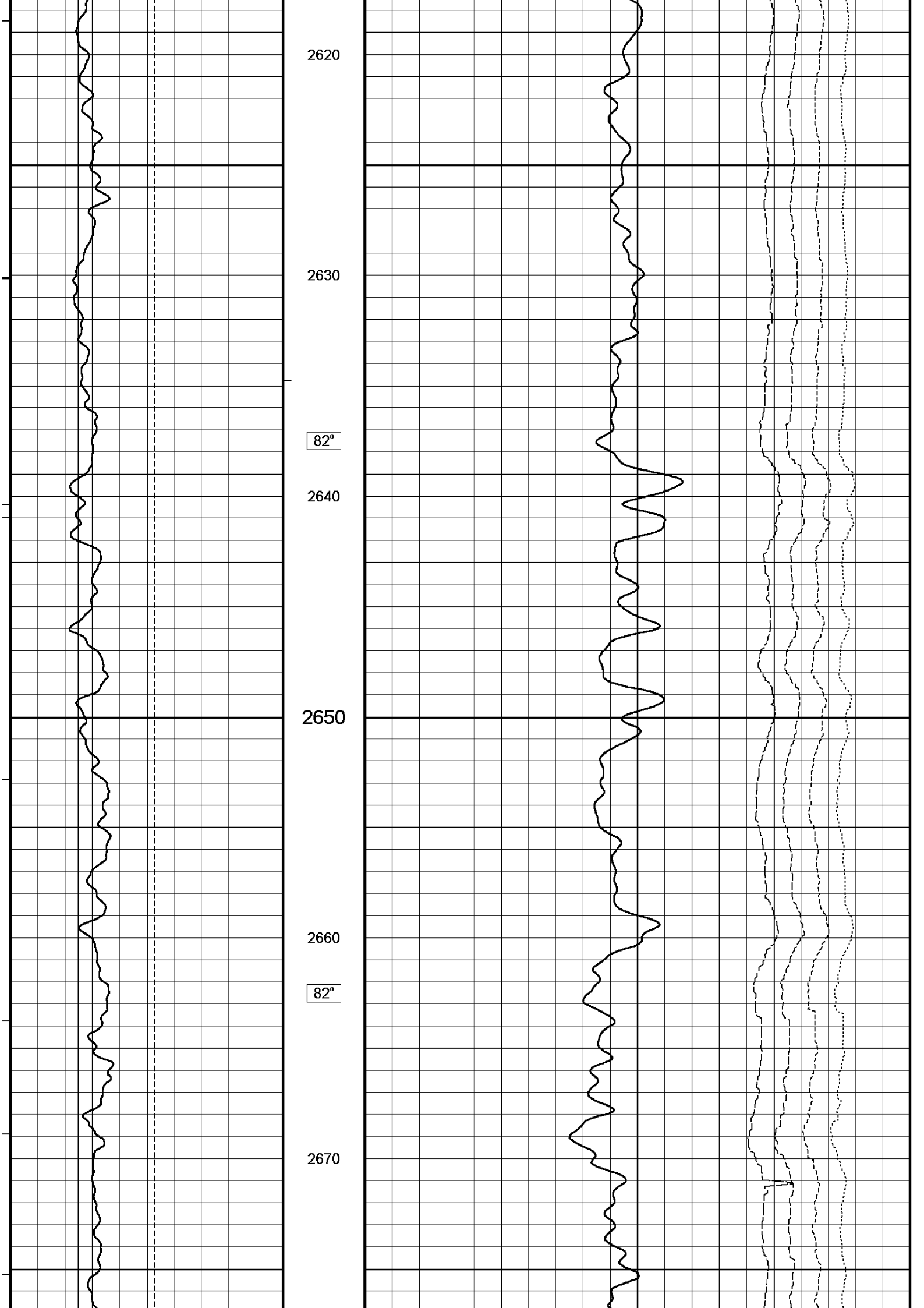
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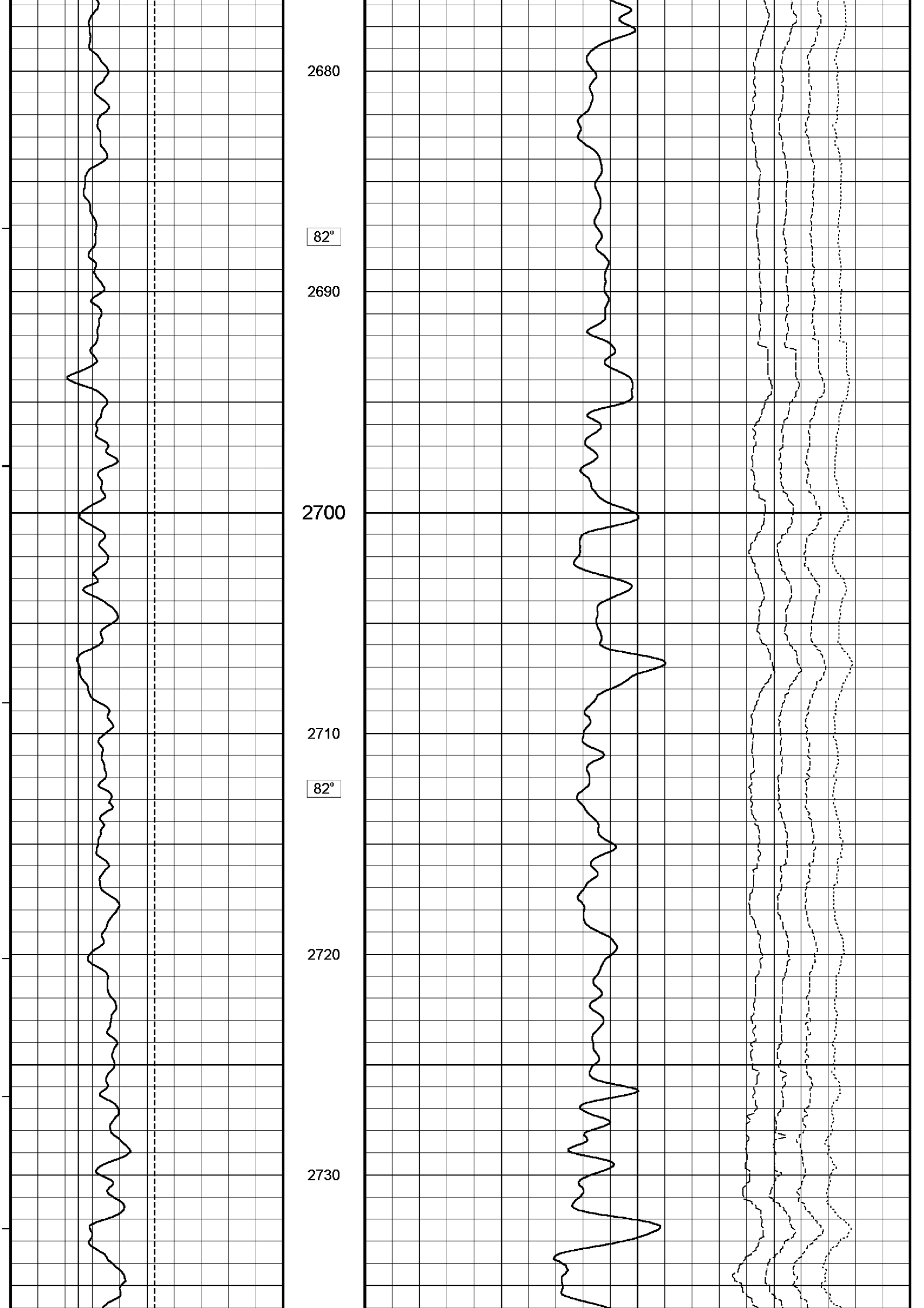
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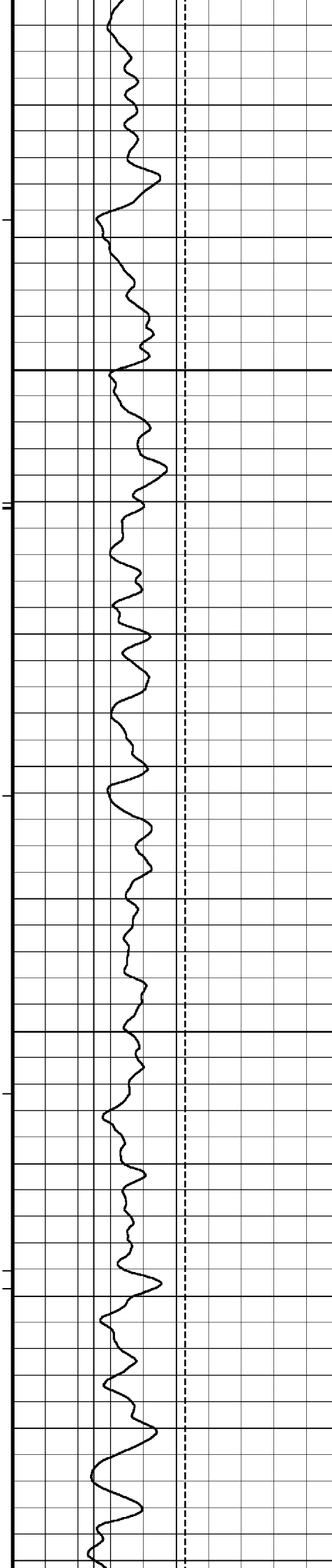












83°

2740

2750

2760

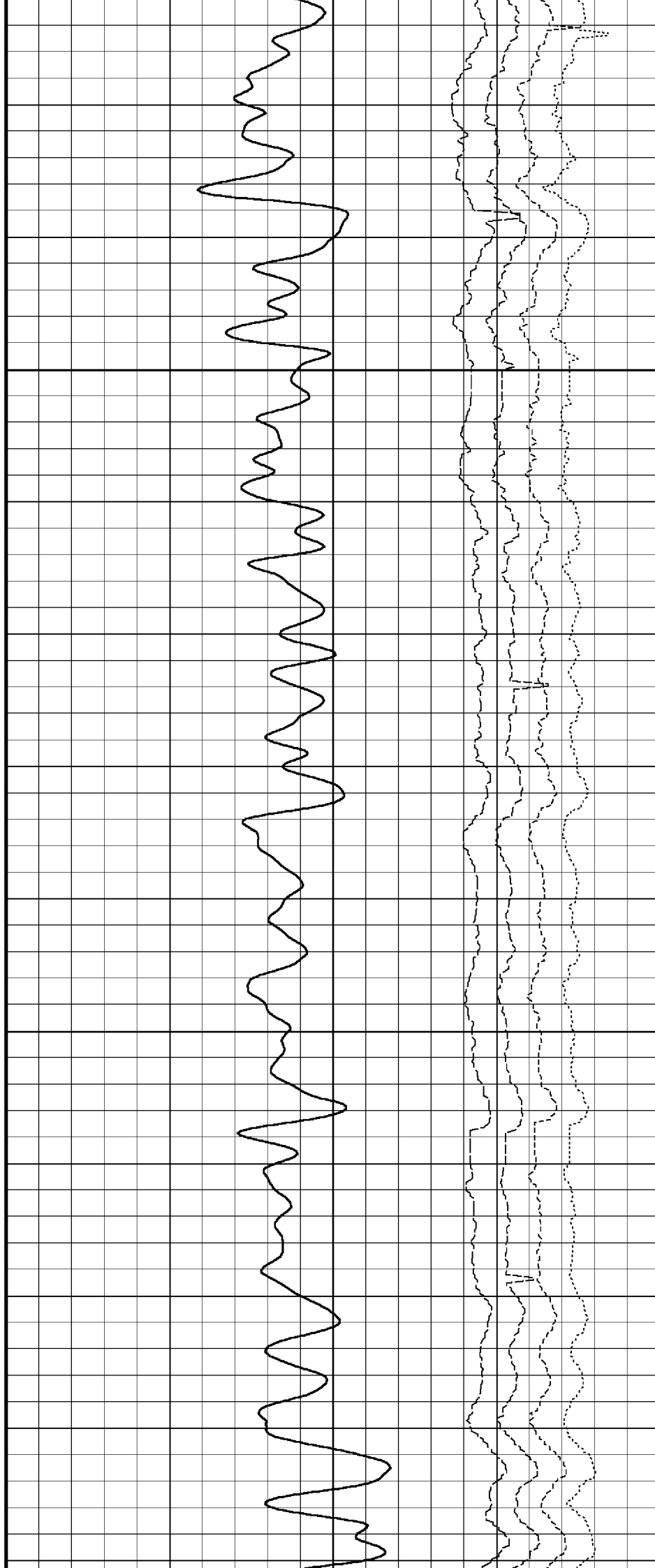
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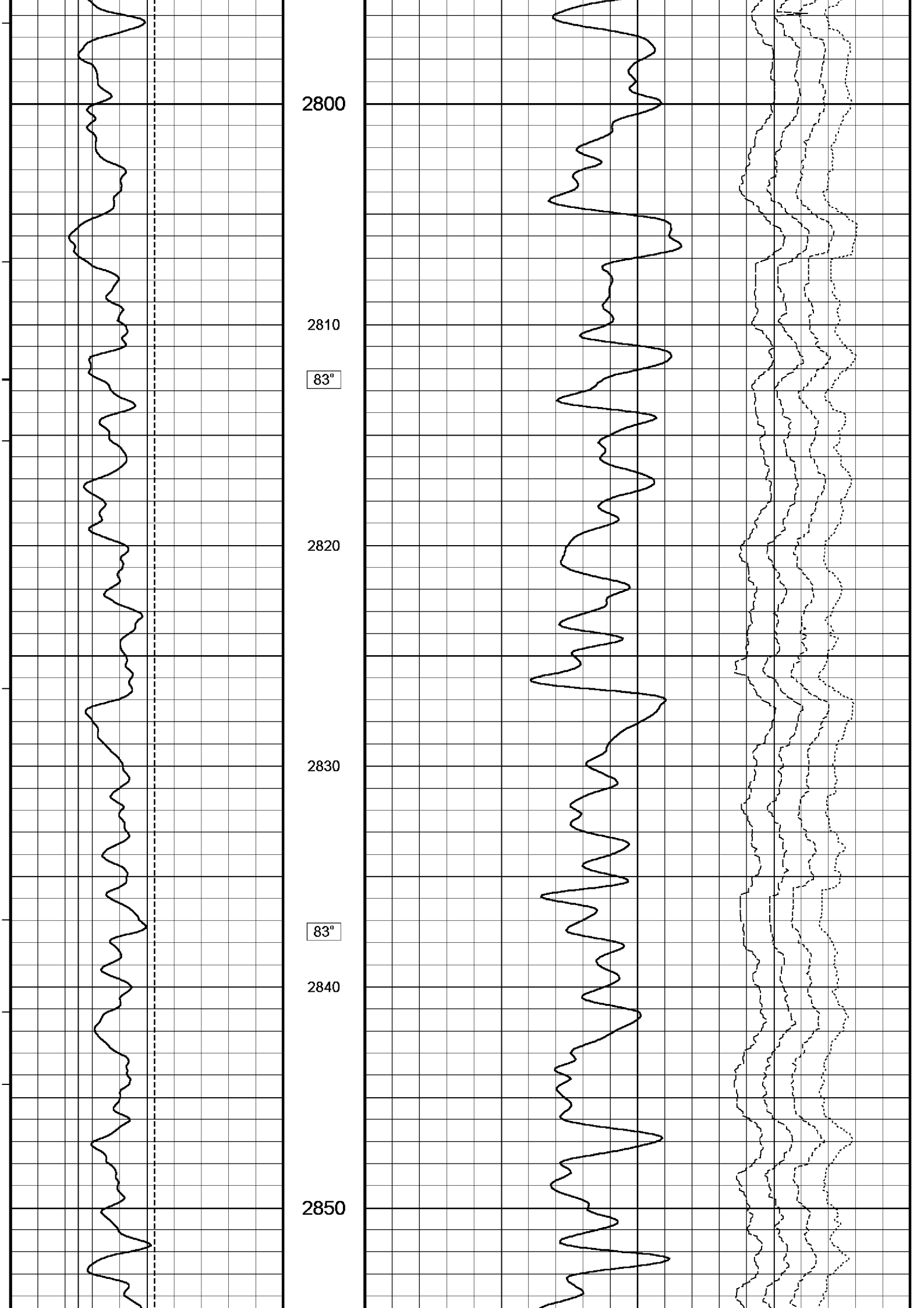
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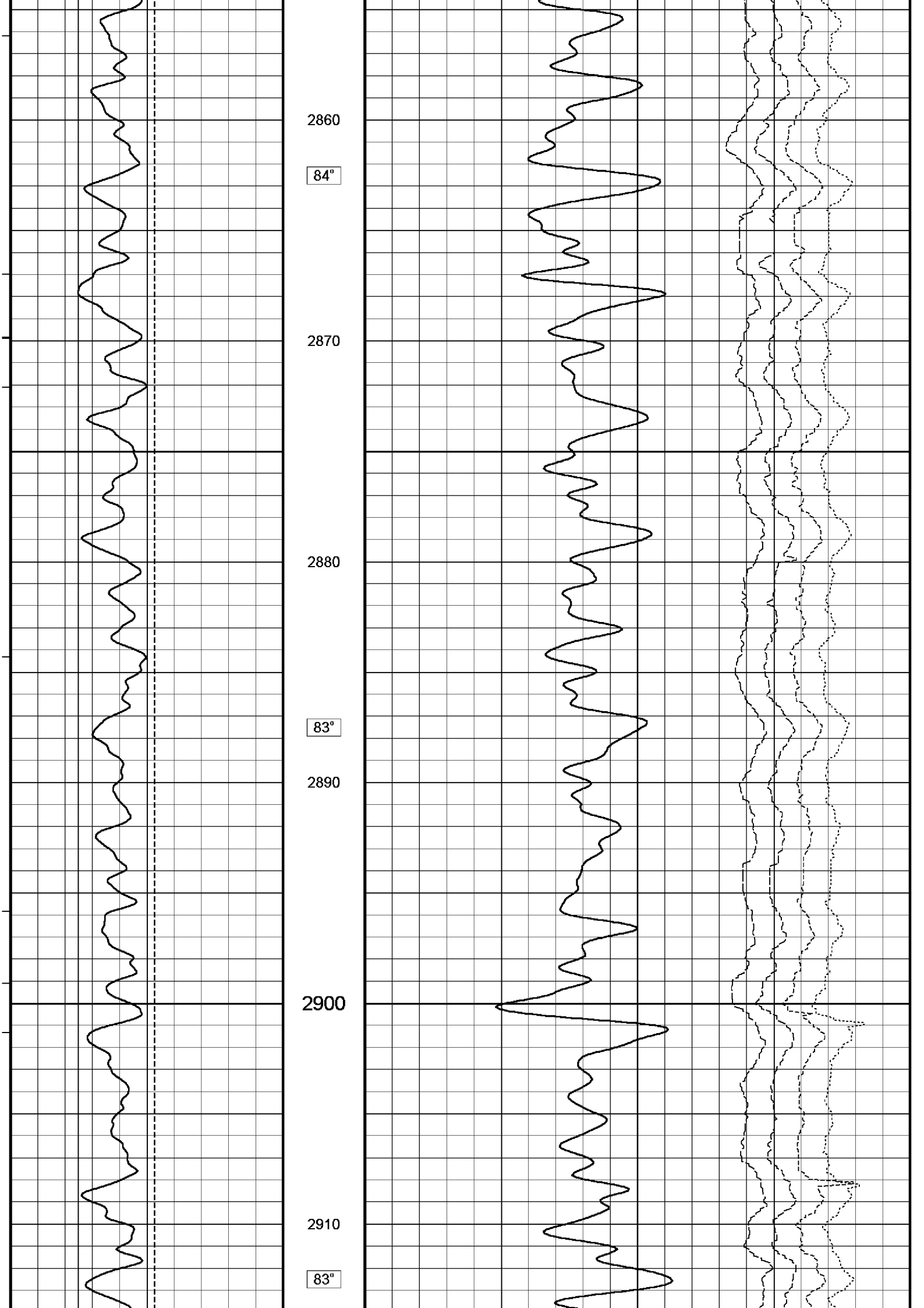
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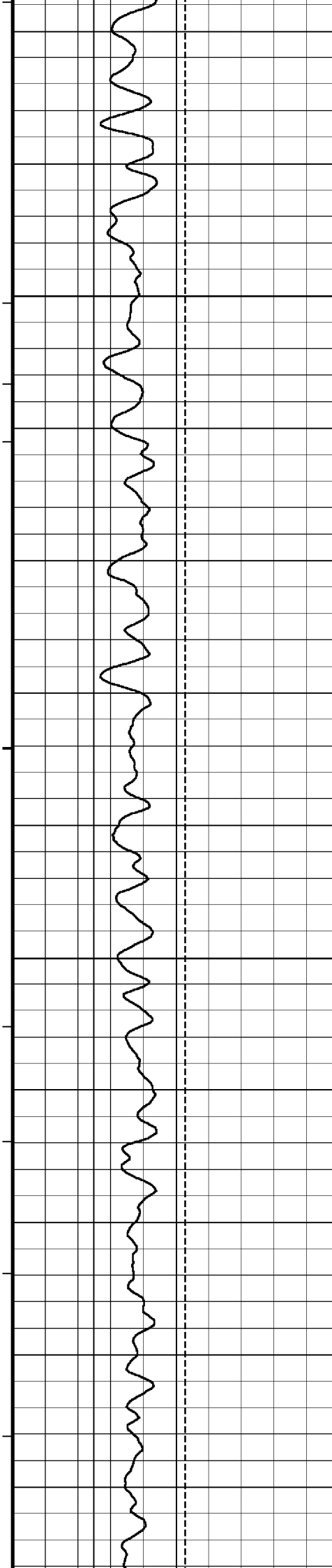
83°

2790









2920

2930

83°

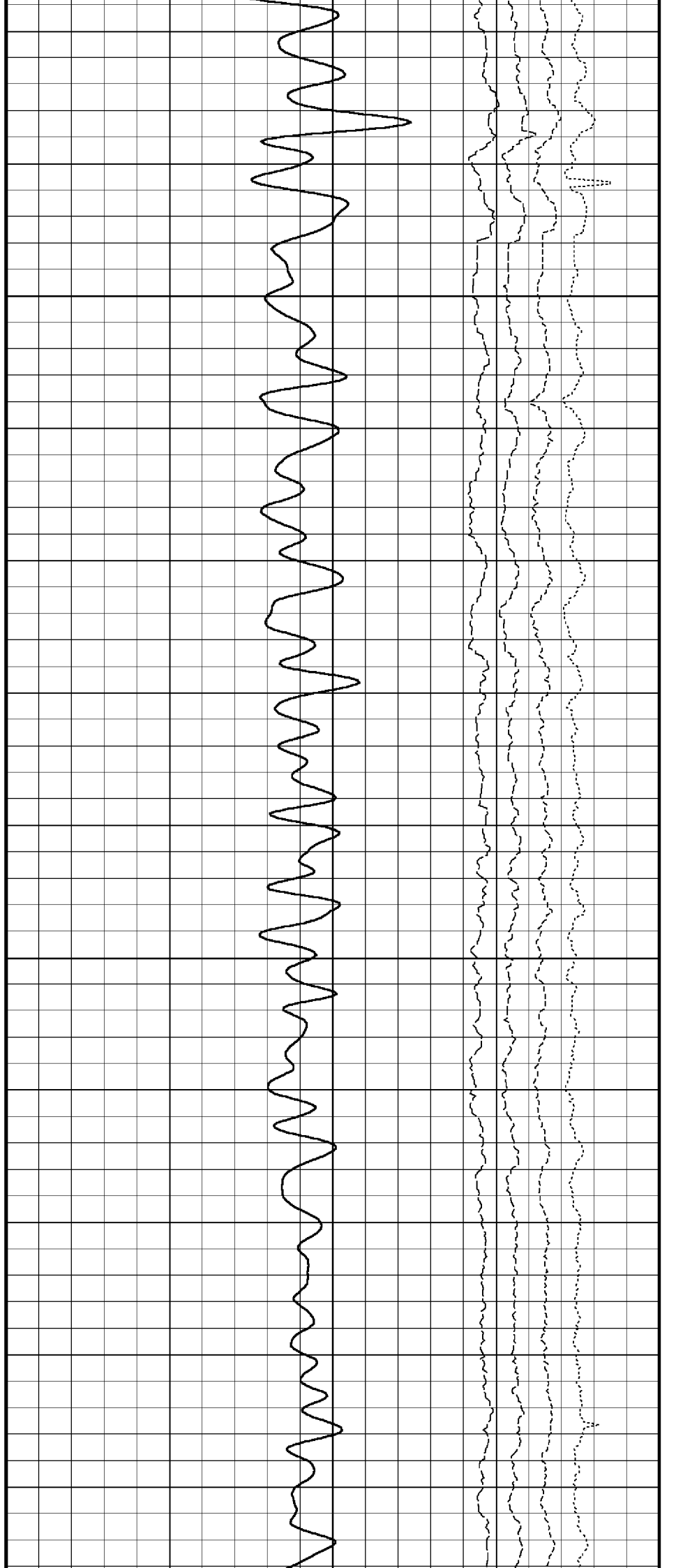
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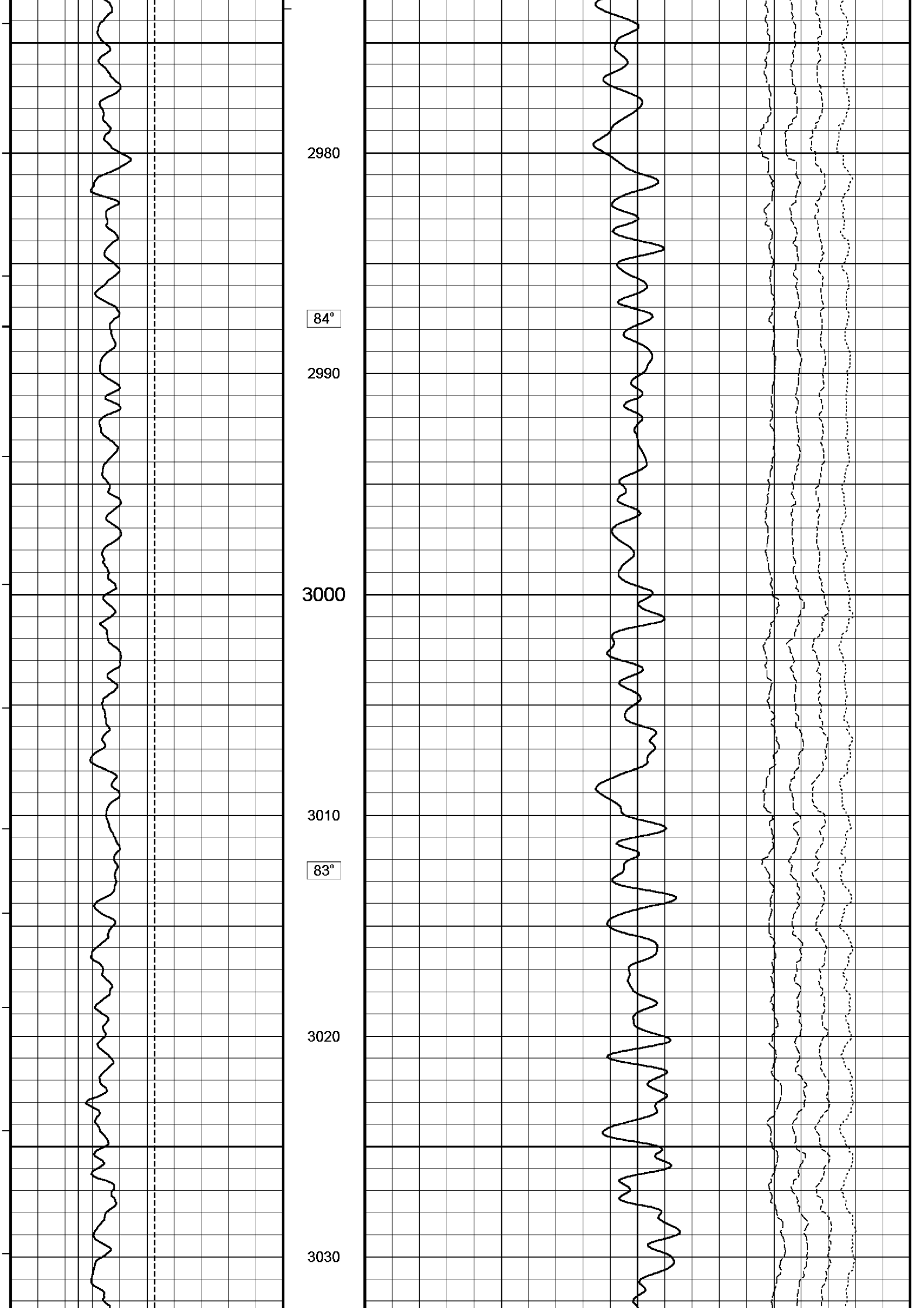
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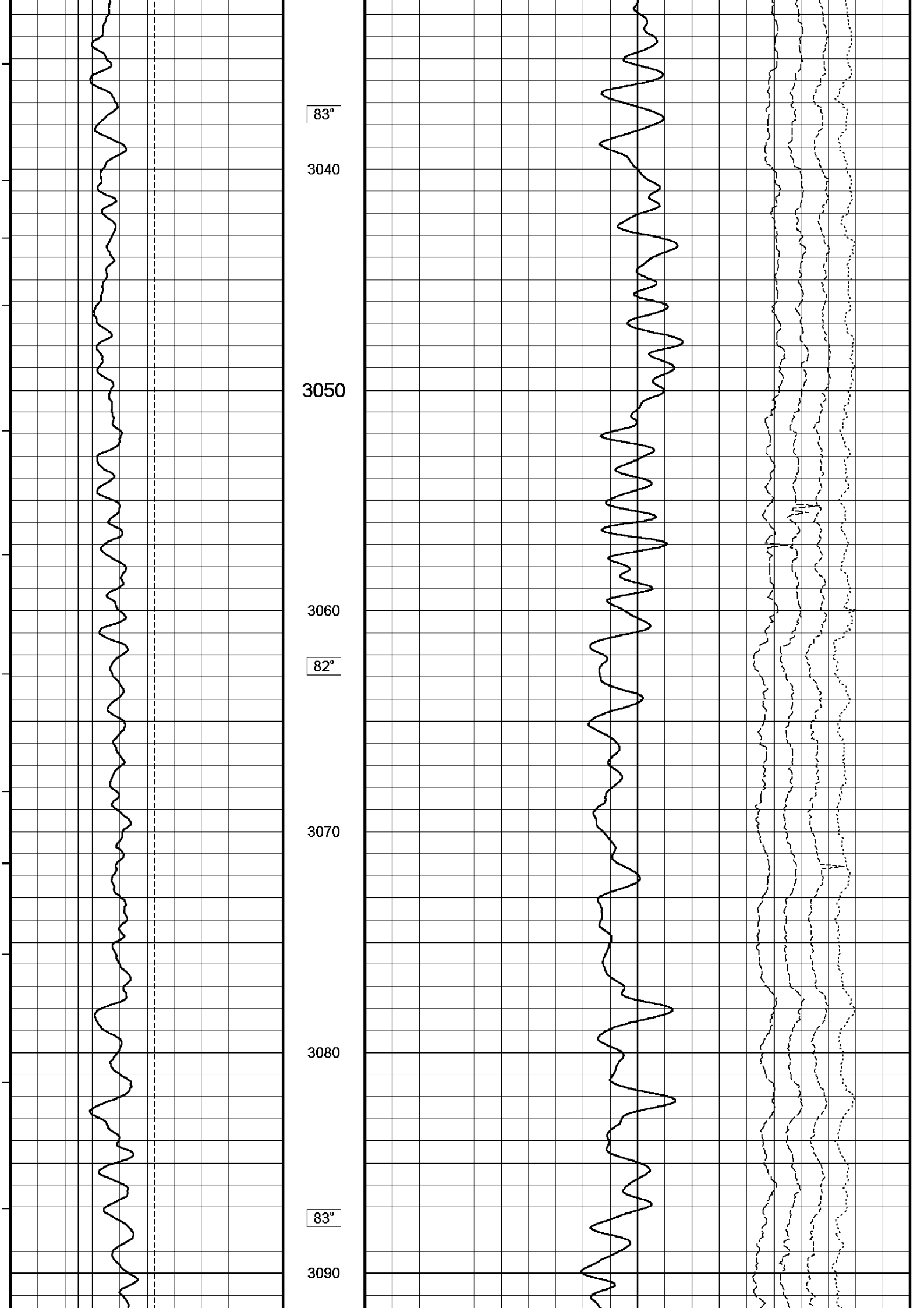
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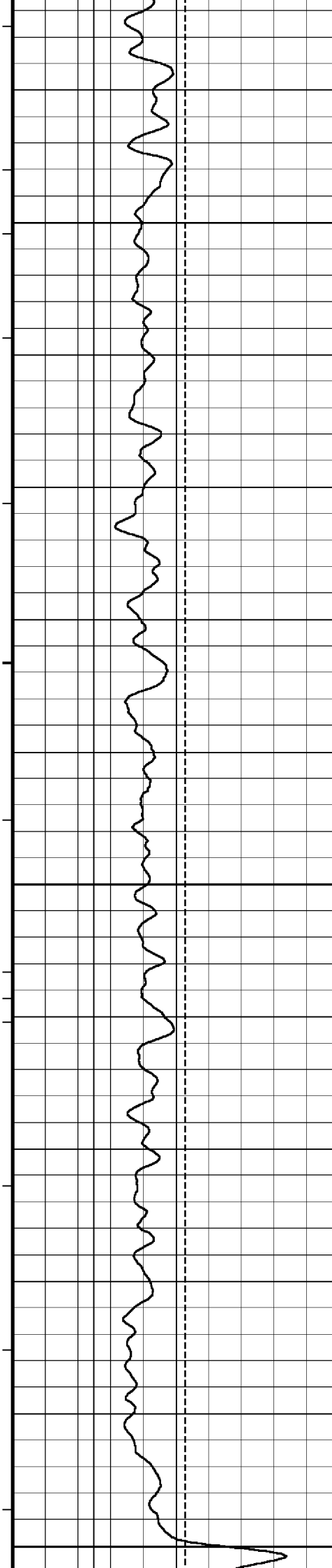
83°

2970









3100

3110

83°

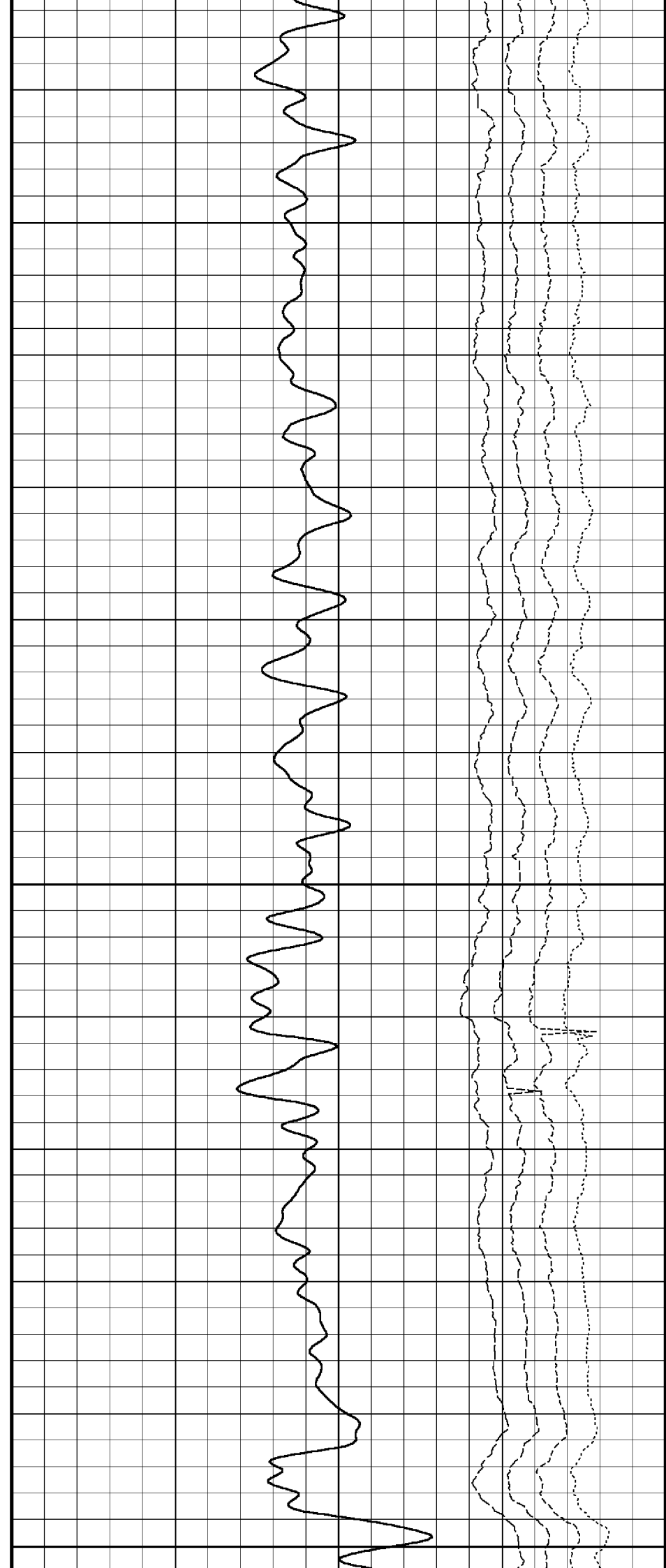
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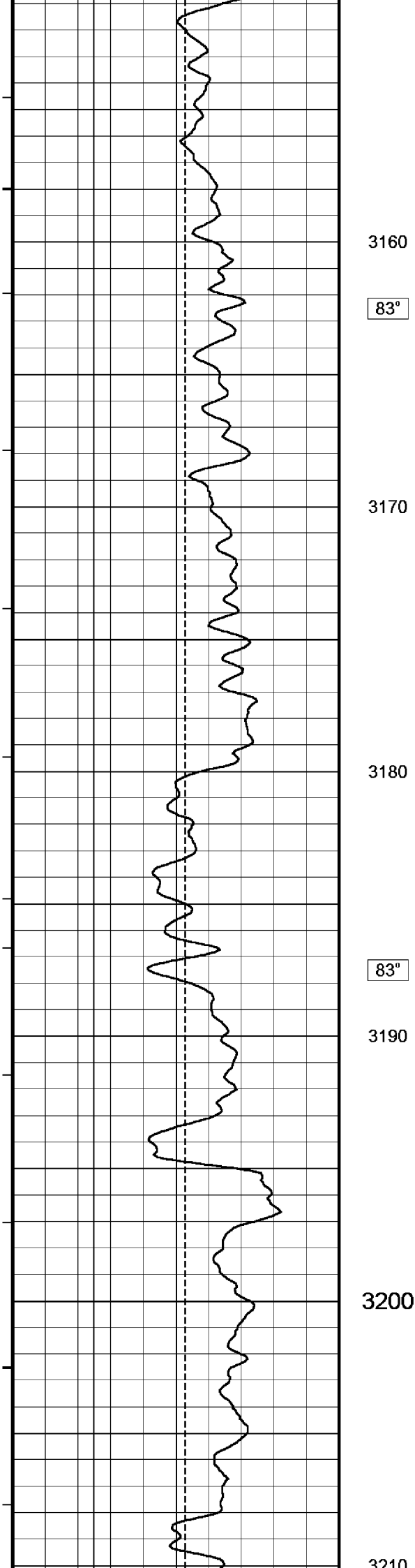
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83°

3140

3150





3160

83°

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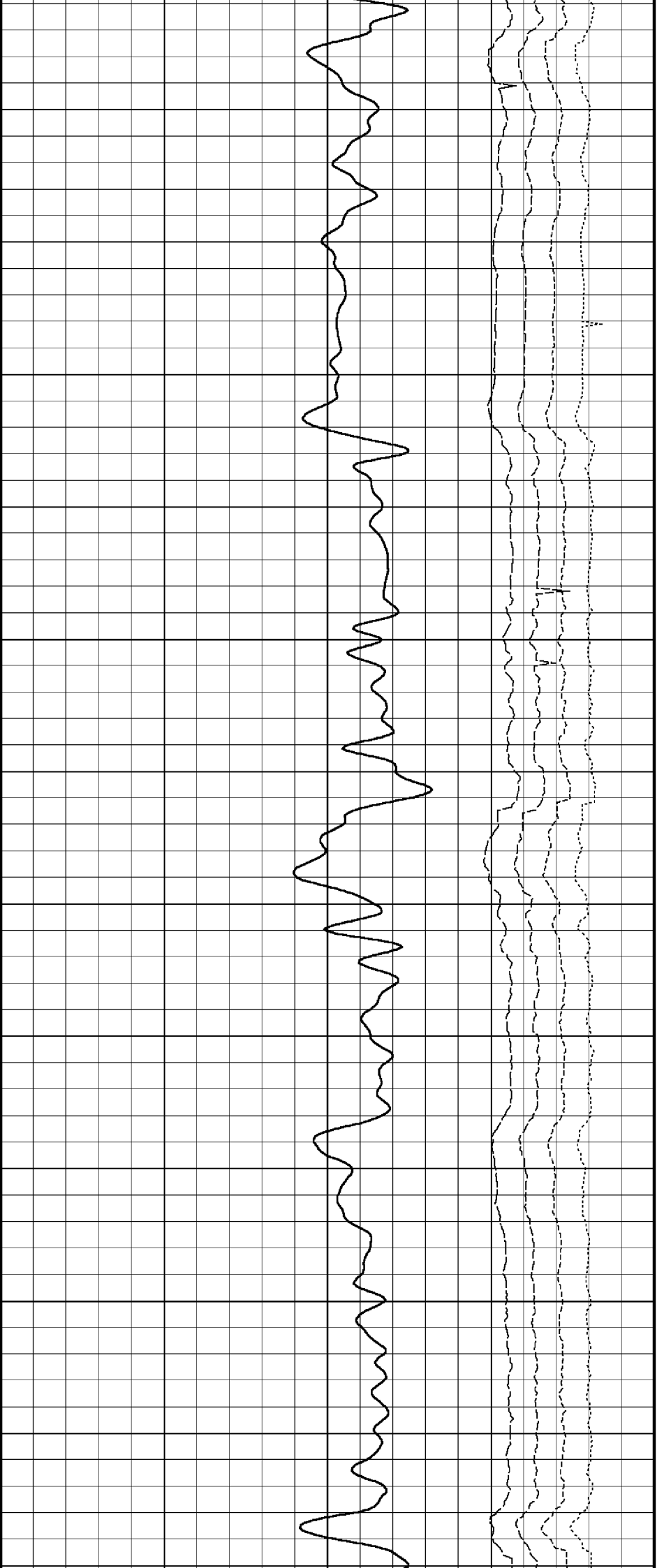
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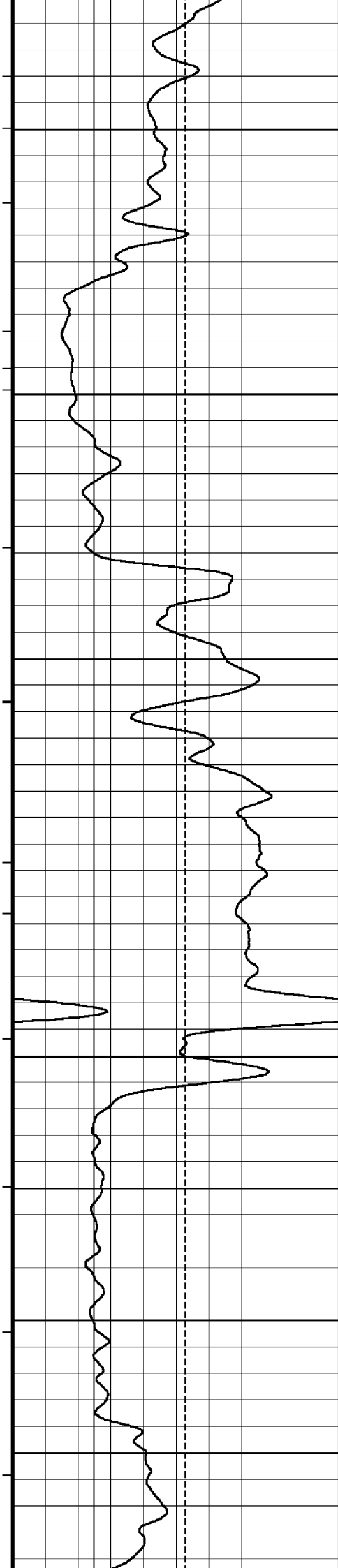
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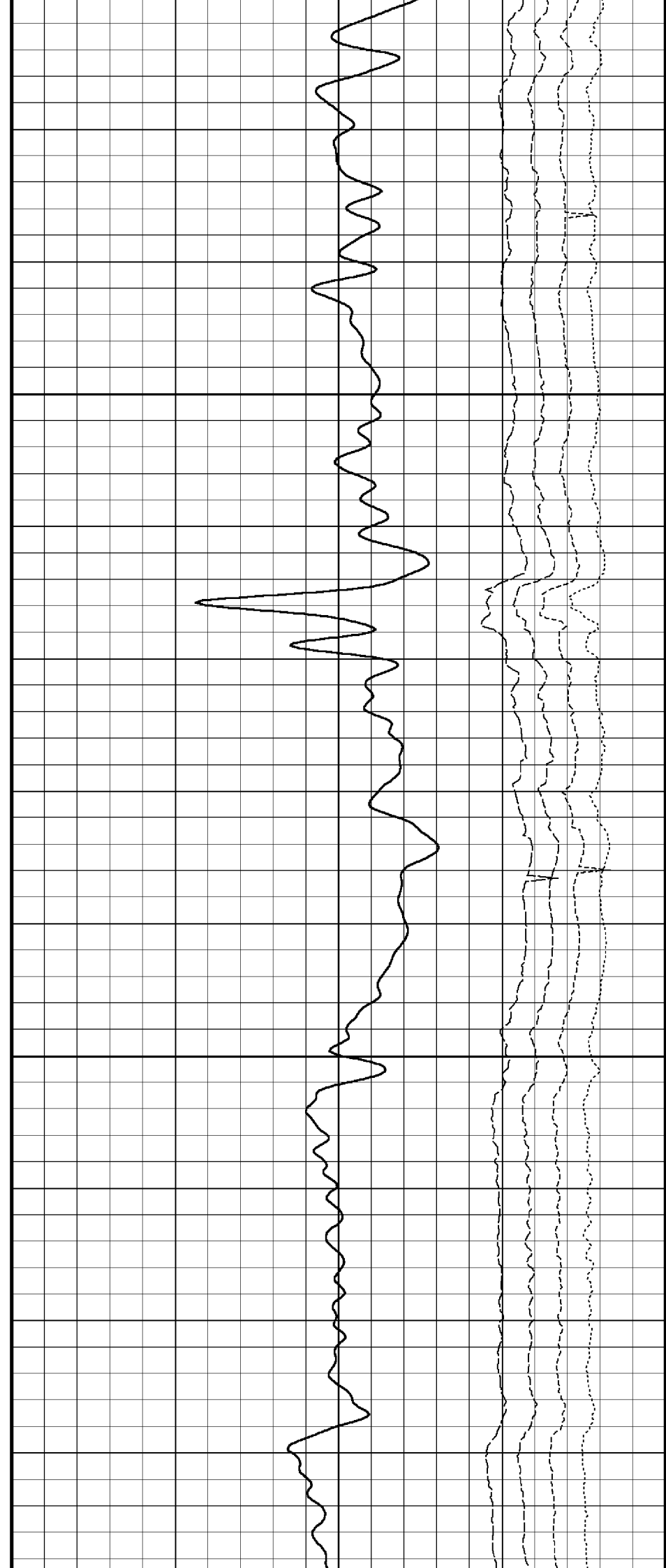
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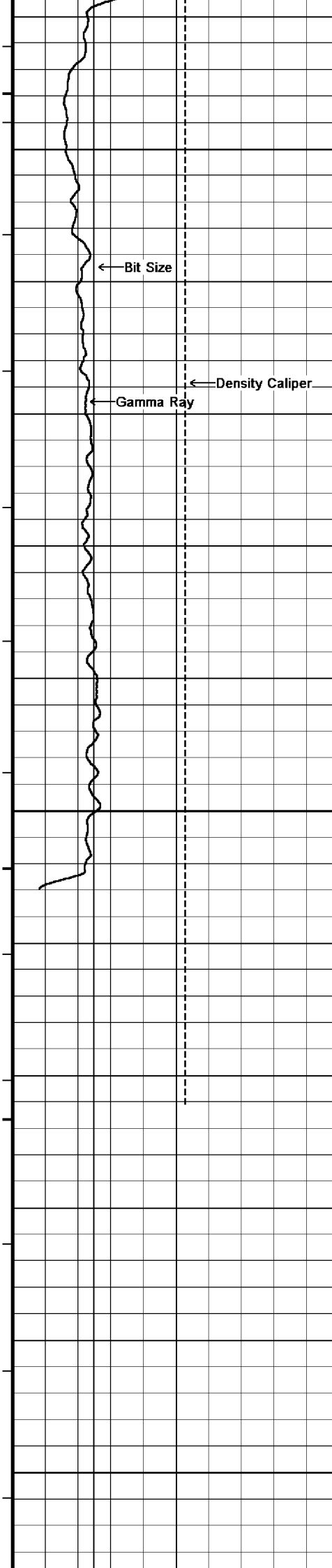
3210





3210
82°
3220
3230
81°
3240
3250
3260
85°





3270

3280

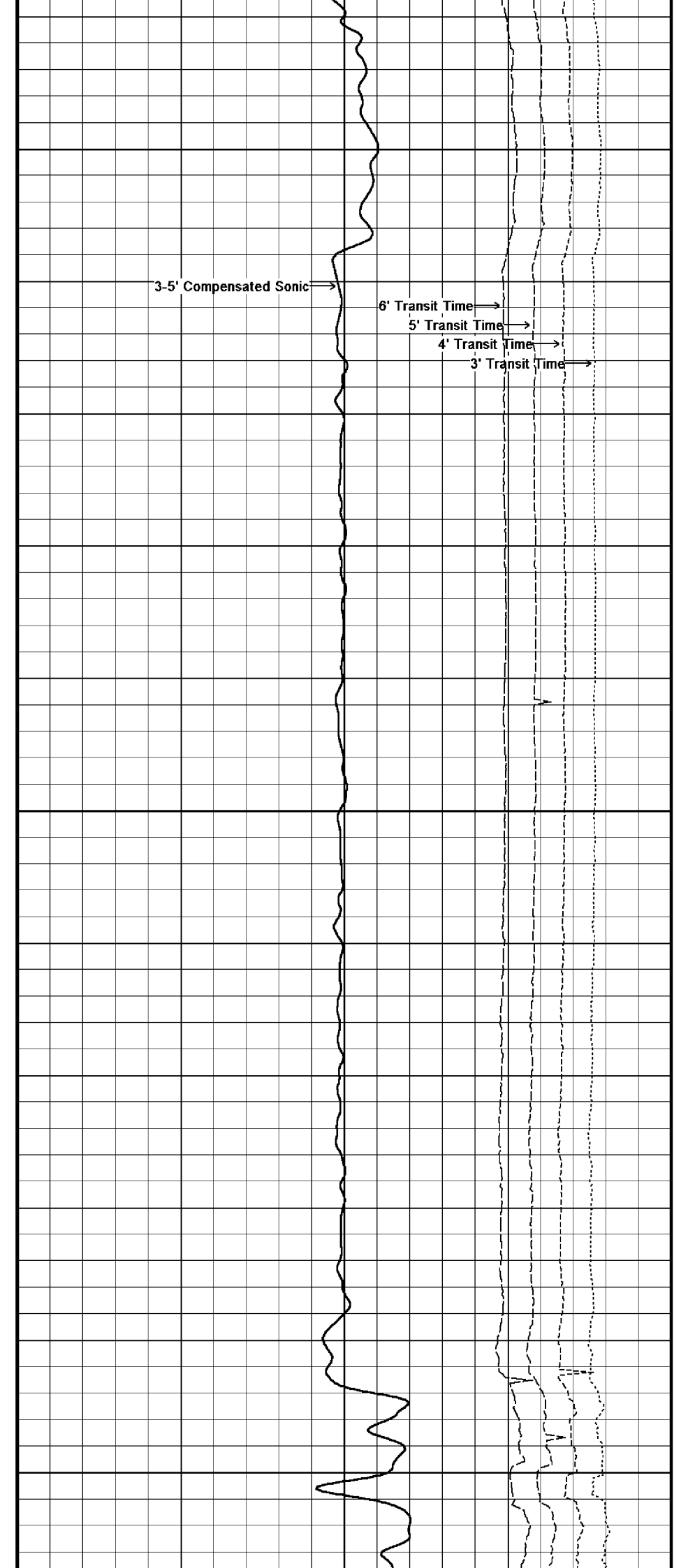
3290

3300

3310

3320

88°



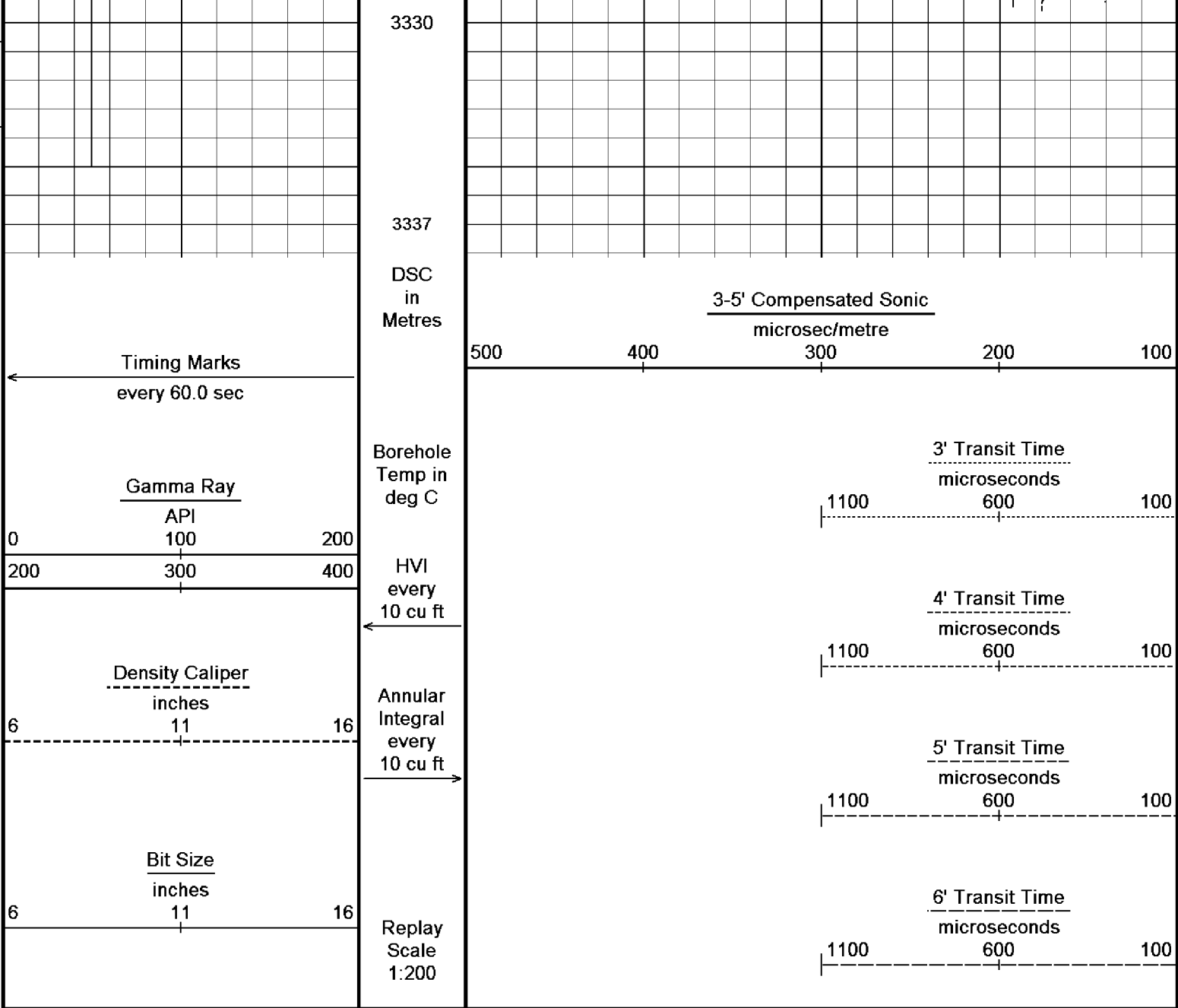
3-5' Compensated Sonic

6' Transit Time

5' Transit Time

4' Transit Time

3' Transit Time



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 25-OCT-2006 08:04
 Filename: C:\logs\WKF_W23A\FIELD_DATA\WKF_W23A_MAIN_LOG.dta Recorded on 24-OCT-2006 11:22
 System Configuration Dates: Logged 17-JUN-2004: Processed 17-JUN-2004: Plotted 17-JUN-2004:

MAIN LOG 1:200

BEFORE SURVEY CALIBRATION

C:\logs\WKF_W23A\FIELD_DATA\WKF_W23A_MAIN_LOG.dta

General Constants All 000

General Parameters		
Mud Resistivity	0.122	ohm-metres
Mud Resistivity Temperature	25.000	degrees C
Water Level	0.000	metres
Density/Neutron Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters		
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	Bit Size	
Annular Volume Diameter	7.000	inches
Caliper for Differential Caliper	None	

Rwa Parameters		
Porosity used	Base Density Porosity	
Resistivity used	Deep Laterolog	
RWA Constant A	0.610	
RWA Constant M	2.150	

High Resolution Temperature Calibration MCG 142

Field Calibration on 20-OCT-2006,23:34

	Measured	Calibrated(Deg C)
Lower	0.00	0.00
Upper	100.00	100.00

High Resolution Temperature Constants MCG 142

Pre-filter Length	11
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Gamma Calibration MCG 142

Field Calibration on 20-OCT-2006 23:54

	Measured	Calibrated (API)
Background	14	9
Calibrator (Gross)	1368	918
Calibrator (Net)	1354	909

Gamma Constants MCG 142

Gamma Calibrator Number	060	
Mud Density	1.00	gm/cc
Caliper Source for Processing	Bit Size	
Tool Position	Eccentred	
Concentration of KCl	0.00	kppm

Caliper Calibration MPD 116

Base Calibration on 2-OCT-2006 11:51
Field Calibration on 21-OCT-2006 01:05

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13024	4.01
2	22384	5.99
3	32405	7.98
4	42176	9.94
5	53631	12.01
6	N/A	N/A

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)
	7.95	7.98

Sonic Constants MSS 066

Maximum Boundary Contrast	100.00	micro-sec/ft
Fluid Transit Time	189.00	micro-sec/ft
Limestone Transit Time	47.50	micro-sec/ft
Sandstone Transit Time	55.50	micro-sec/ft
Dolomite Transit Time	43.50	micro-sec/ft
Sonic used for Porosities	3-5' Compensated Sonic	
Correction for Sonde Skew	Applied	
Cycle Stretch Algorithm	Applied	
MN3FT	N/A	micro-sec
MX3FT	N/A	micro-sec

Fixed Gate Parameters

Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Down Hole Fixed Gate Parameters

Gate Start	N/A	micro-sec
Gate Width	N/A	micro-sec
Initial Discriminator Level	0.0000	mVolts

Full Waveform Parameters

Use 3' Waveform to derive TR	No
Use 4' Waveform to derive TR	No
Use 5' Waveform to derive TR	No
Use 6' Waveform to derive TR	No
3' Waveform Discriminator Level	0.45 mV
4' Waveform Discriminator Level	0.45 mV
5' Waveform Discriminator Level	0.35 mV
6' Waveform Discriminator Level	0.35 mV
3' Waveform Filter	None

3' Waveform Filter	None	
4' Waveform Filter	None	
5' Waveform Filter	None	
6' Waveform Filter	None	
Semblance Level	0.50	
Semblance Window Width	120.00	micro-sec
Sonic 1 Despiker	100.00	micro-sec/ft
Sonic 2 Despiker	100.00	micro-sec/ft

DOWNHOLE EQUIPMENT

C:\logs\WKF_W23A\FIELD_DATA\WKF_W23A_MAIN_LOG.dta

Compact Swivel Head Adaptor F
SHA 71 Length: 0.83 m Weight: 26.5 lb

Compact Knuckle Joint
SKJ 100 Length: 0.66 m Weight: 24.3 lb

Compact Battery Sub.
MBS 99 Length: 4.41 m Weight: 44.1 lb

Compact Inline Standoff B
MIS 31 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.
MBE 18 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B
MIS 141 Length: 0.65 m Weight: 15.4 lb

Compact Stiff Bridle Electrode Sub.
MBE 19 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B
MIS 129 Length: 0.65 m Weight: 15.4 lb

MBE 21 3rd bridle
MLK 111 Length: 3.76 m Weight: 94.8 lb

Compact Inline Standoff B
MIS 135 Length: 0.65 m Weight: 15.4 lb

Compact Gamma
MCC 112 Length: 2.65 m Weight: 62.0 lb



32.22 m GGCE - Borehole Corrected Gamma
21.22 m CCYT - MCC External Temperature

MCG 142 Length: 2.65 m Weight: 63.9 lb

Compact Memory Sub A.C
MMS 38 Length: 0.95 m Weight: 30.9 lb

Compact Knuckle Joint
SKJ 101 Length: 0.66 m Weight: 24.3 lb

Compact Swivel Head Adaptor F
SHA 64 Length: 0.83 m Weight: 26.5 lb

Compact Inline Bowspring A
MIS 95 Length: 1.74 m Weight: 33.1 lb

Compact Neutron
MDN 119 Length: 1.53 m Weight: 50.7 lb

Compact Density/Caliper
MPD 116 Length: 2.92 m Weight: 90.4 lb

Compact Inline Bowspring A
MIS 24 Length: 1.74 m Weight: 33.1 lb

Compact Swivel Head Adaptor F
SHA 73 Length: 0.83 m Weight: 26.5 lb

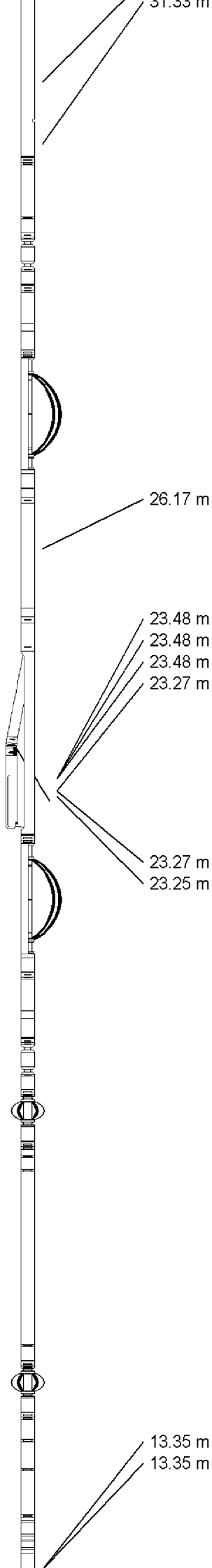
Compact Knuckle Joint
SKJ 46 Length: 0.66 m Weight: 24.3 lb

Compact Inline Standoff B
MIS 132 Length: 0.65 m Weight: 15.4 lb

Compact Upper Guard Sub.
MUG 30 Length: 2.74 m Weight: 68.3 lb

Compact Inline Standoff B
MIS 139 Length: 0.65 m Weight: 15.4 lb

Compact Laterolog Electrode Sub.
MLE 31 Length: 3.76 m Weight: 92.6 lb



31.33 m CGXT - MCG External Temperature

26.17 m NPRL - Limestone Neutron Por.

23.48 m AVOL - Annular Volume
23.48 m HVOL - Hole Volume
23.48 m CLDC - Density Caliper
23.27 m DEN - Compensated Density

23.27 m DCOR - Density Correction
23.25 m PDPE - PE

13.35 m DDLL - Deep Laterolog
13.35 m DSLL - Shallow Laterolog

Compact Inline Standoff B
MIS 138 Length: 0.65 m Weight: 15.4 lb

Compact Lower Guard Sub.
MLG 7 Length: 2.44 m Weight: 55.1 lb

Compact Inline Standoff B
MIS 73 Length: 0.65 m Weight: 15.4 lb

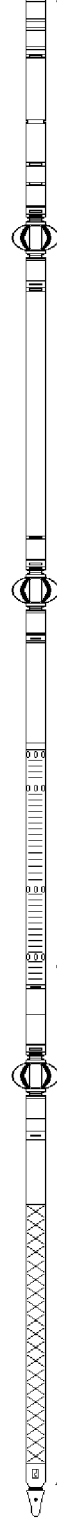
Compact Sonic
MSS 66 Length: 3.82 m Weight: 72.8 lb

Compact Inline Standoff B
MIS 127 Length: 0.65 m Weight: 15.4 lb

Compact Induction
MAI 39 Length: 3.29 m Weight: 48.5 lb

Pressure Bung + Hole Finder
HFS 4 Length: 0.40 m Weight: 6.6 lb

Total Length: 54.01 m Weight: 1265.5 lb



4.60 m TR22 - 5' Transit Time
4.60 m TR11 - 4' Transit Time
4.60 m TR21 - 3' Transit Time
4.60 m TR12 - 6' Transit Time

4.60 m DT35 - 3-5' Compensated Sonic

Tool Zero (0.44m from bottom)

All measurements relative to tool zero.

COMPANY ESSO AUSTRALIA PTY.LTD
WELL WKF W23A
FIELD KINGFISH GDA94
PROVINCE/COUNTY BASS STRAIT, VICTORIA
COUNTRY/STATE AUSTRALIA

Elevation Kelly Bushing		metres	First Reading	3330.40	metres
Elevation Drill Floor	33.43	metres	Depth Driller	3338.00	metres
Elevation Ground Level	-76.13	metres	Depth Logger	3338.00	metres



COMPENSATED SONIC
1:200 MD

