

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

----- Fold here -----

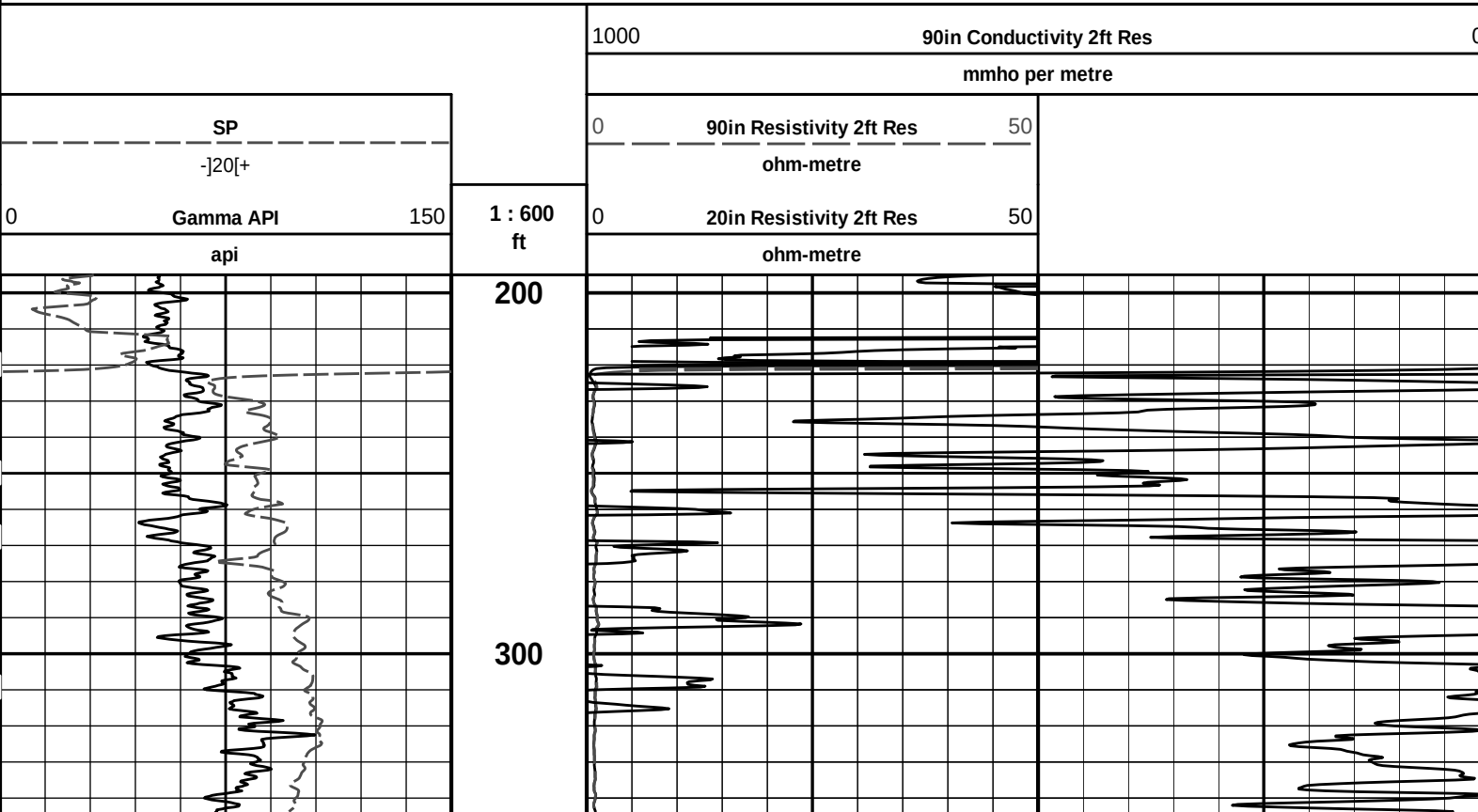
LOGGING DATA

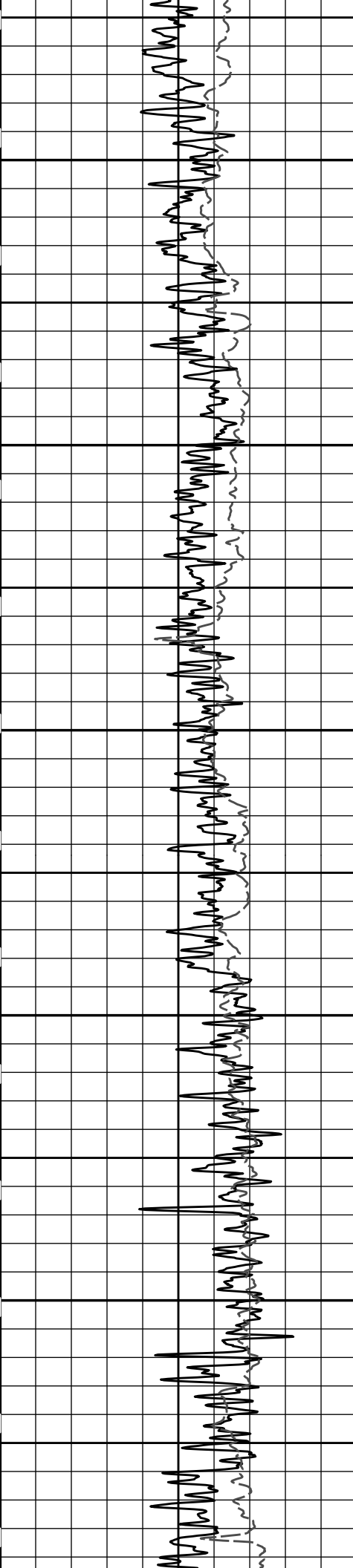
GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON			
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	5021	223	REC	0	150				30	-10	2.71 gm/cc	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														

HALLIBURTON

Plot Time: 27-Feb-13 06:43:54
Plot Range: 195 ft to 5025.08 ft
Data: HICKOCK_2-23\Well Based\VAL_HICKOCK_CASING\
Plot File: \\-LOCAL-H\HICKOCK_2-23\Well Based\ACRT\ACRT_2_lib

2 INCH MAIN LOG





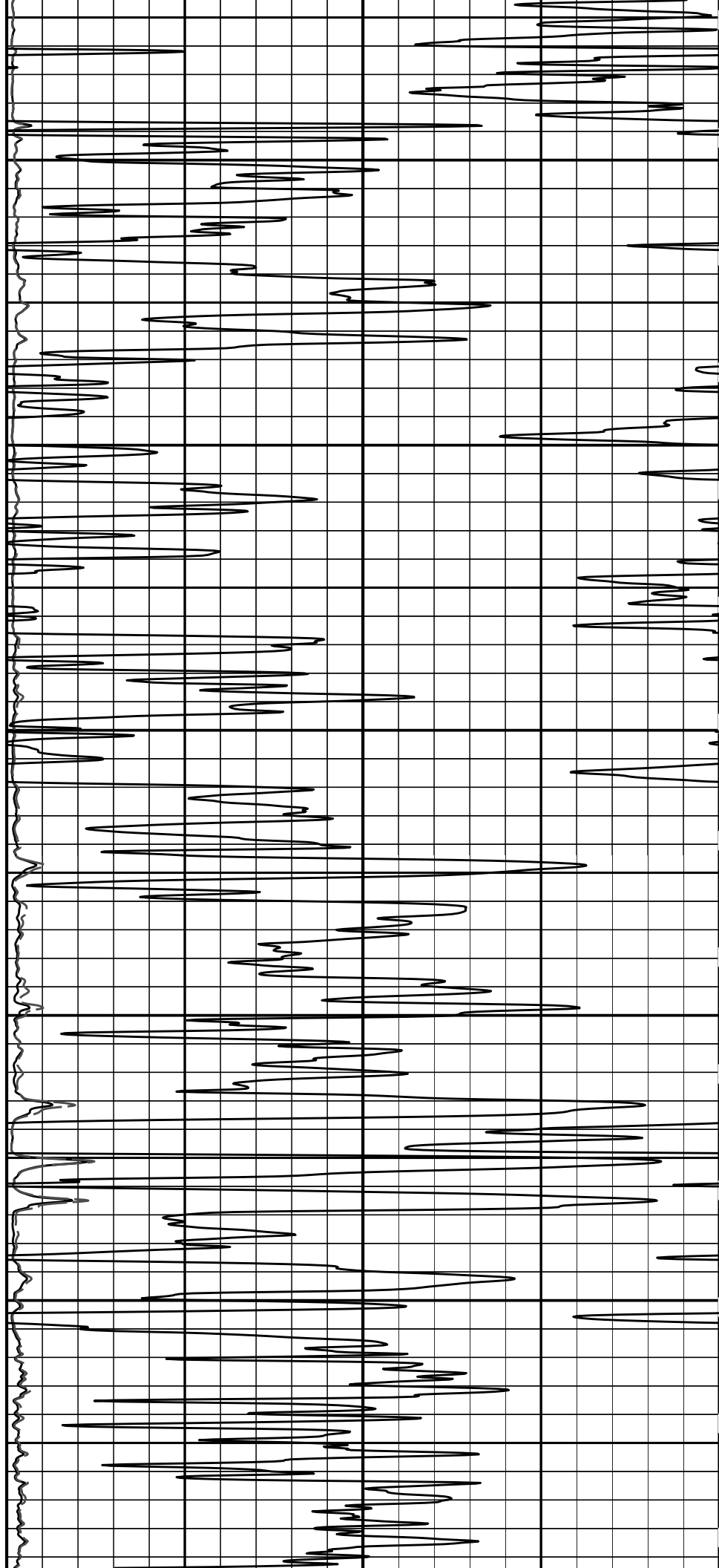
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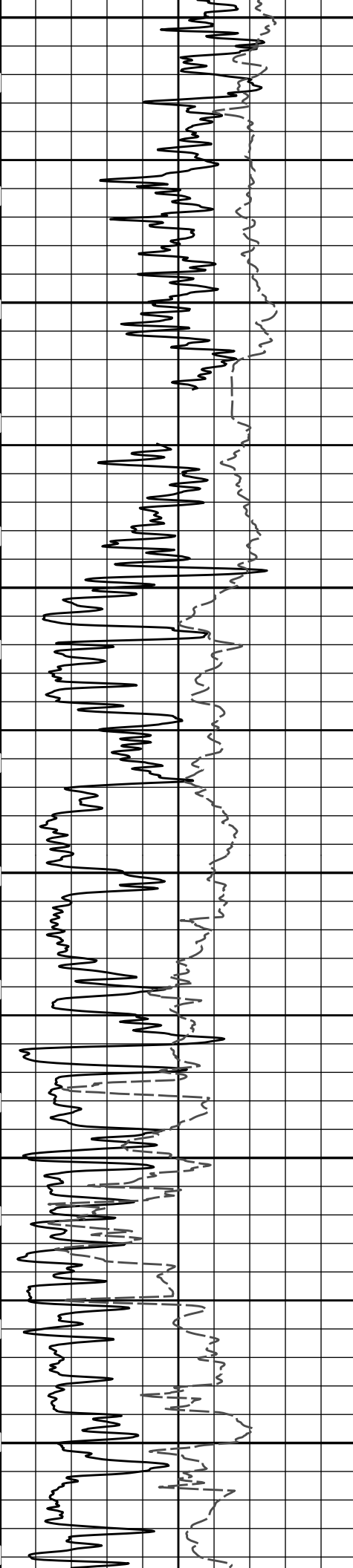
500

600

700

800





900

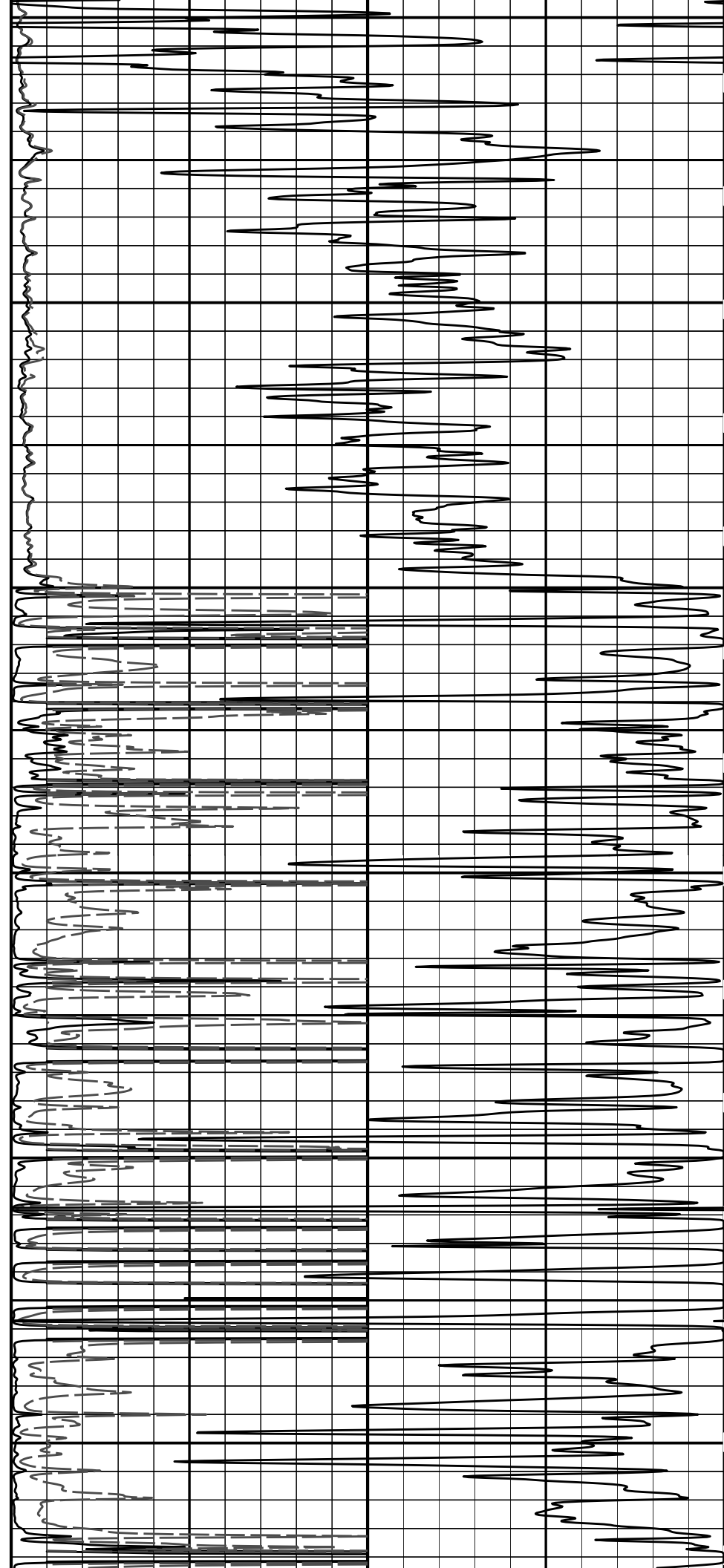
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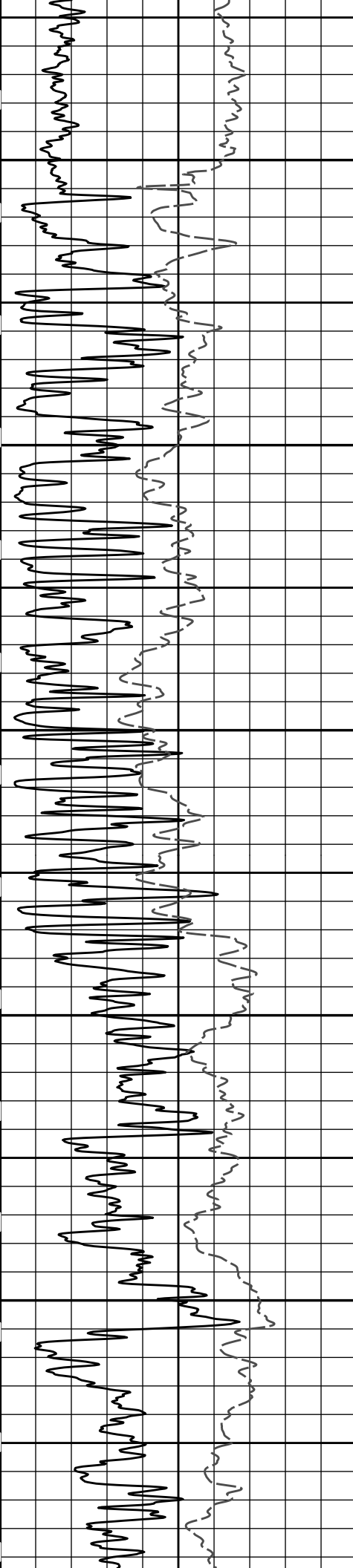
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1200

1300

1400





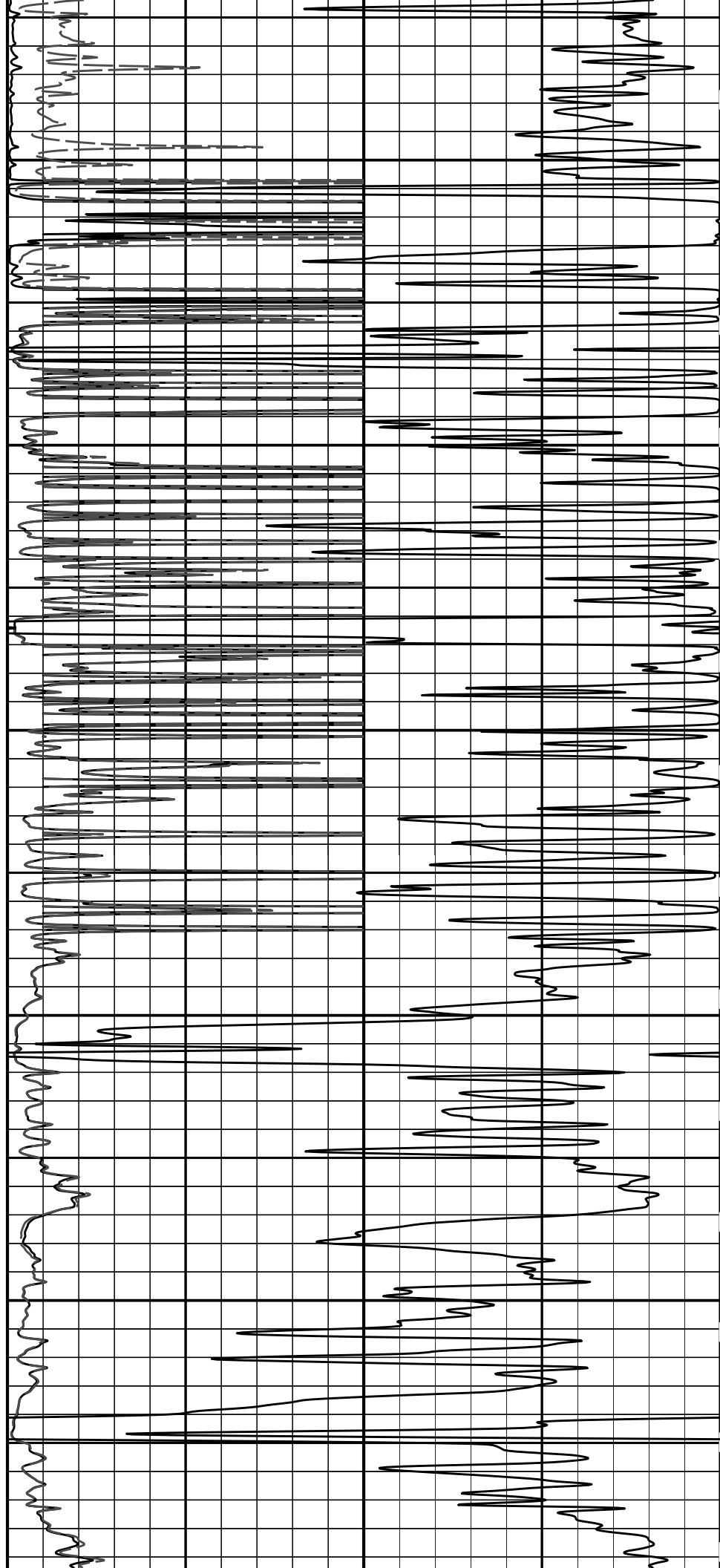
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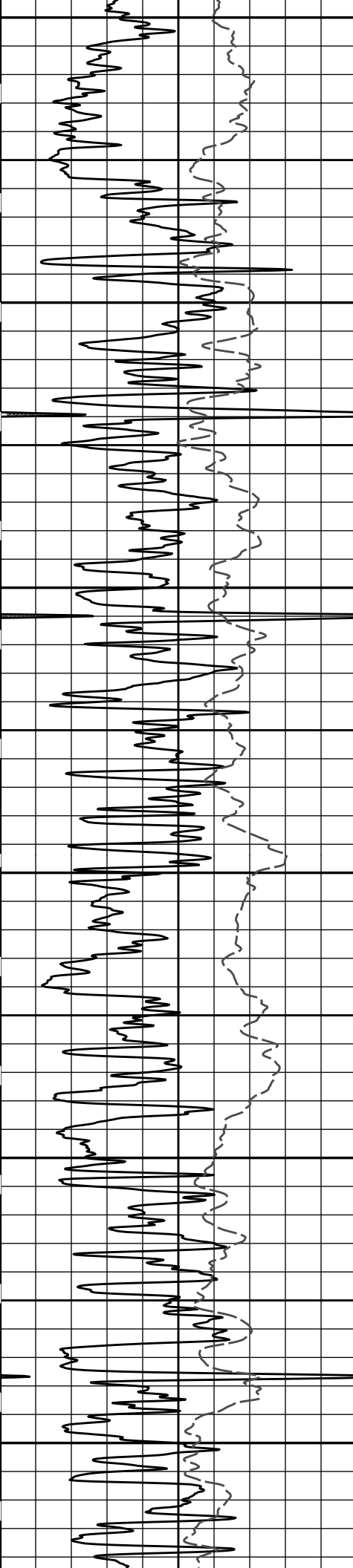
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1700

1800

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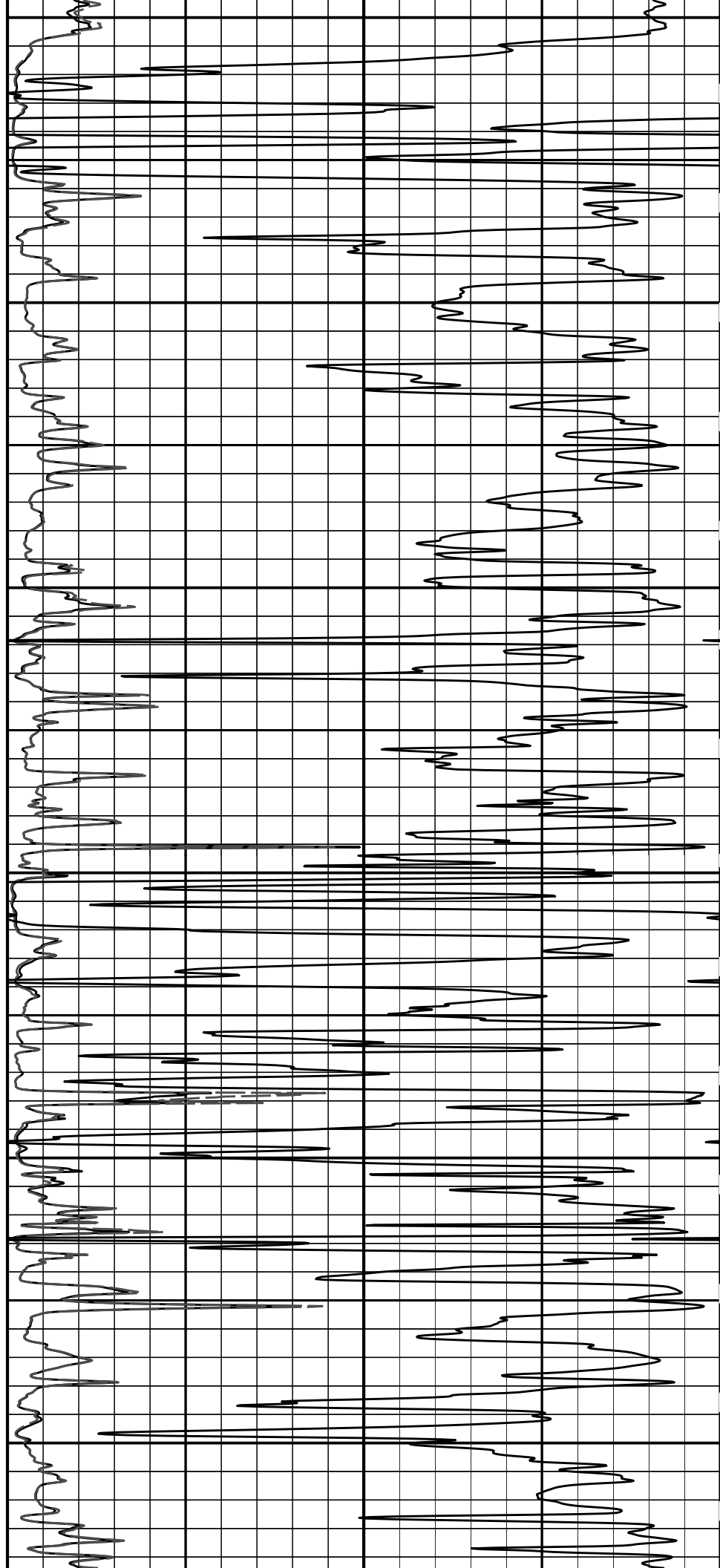
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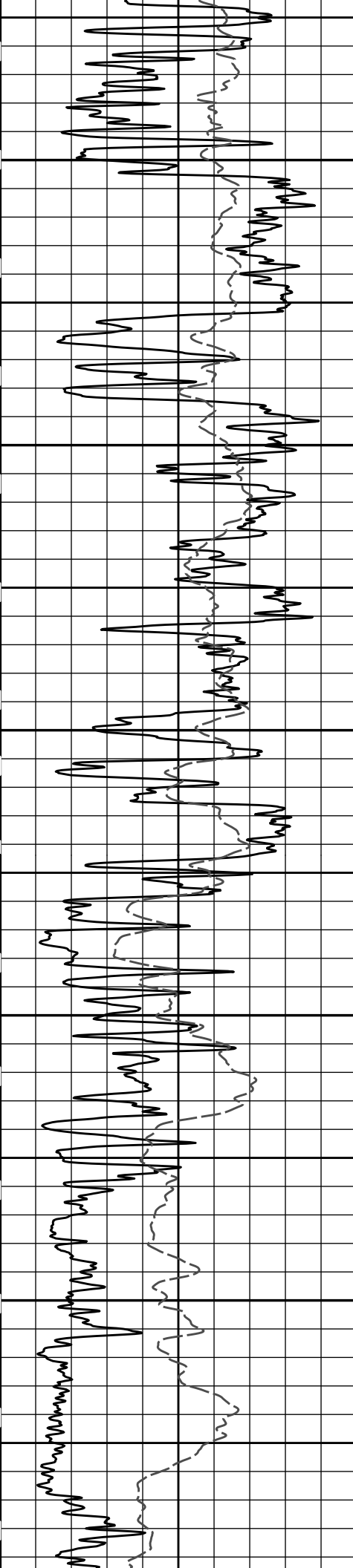
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2300

2400

2500





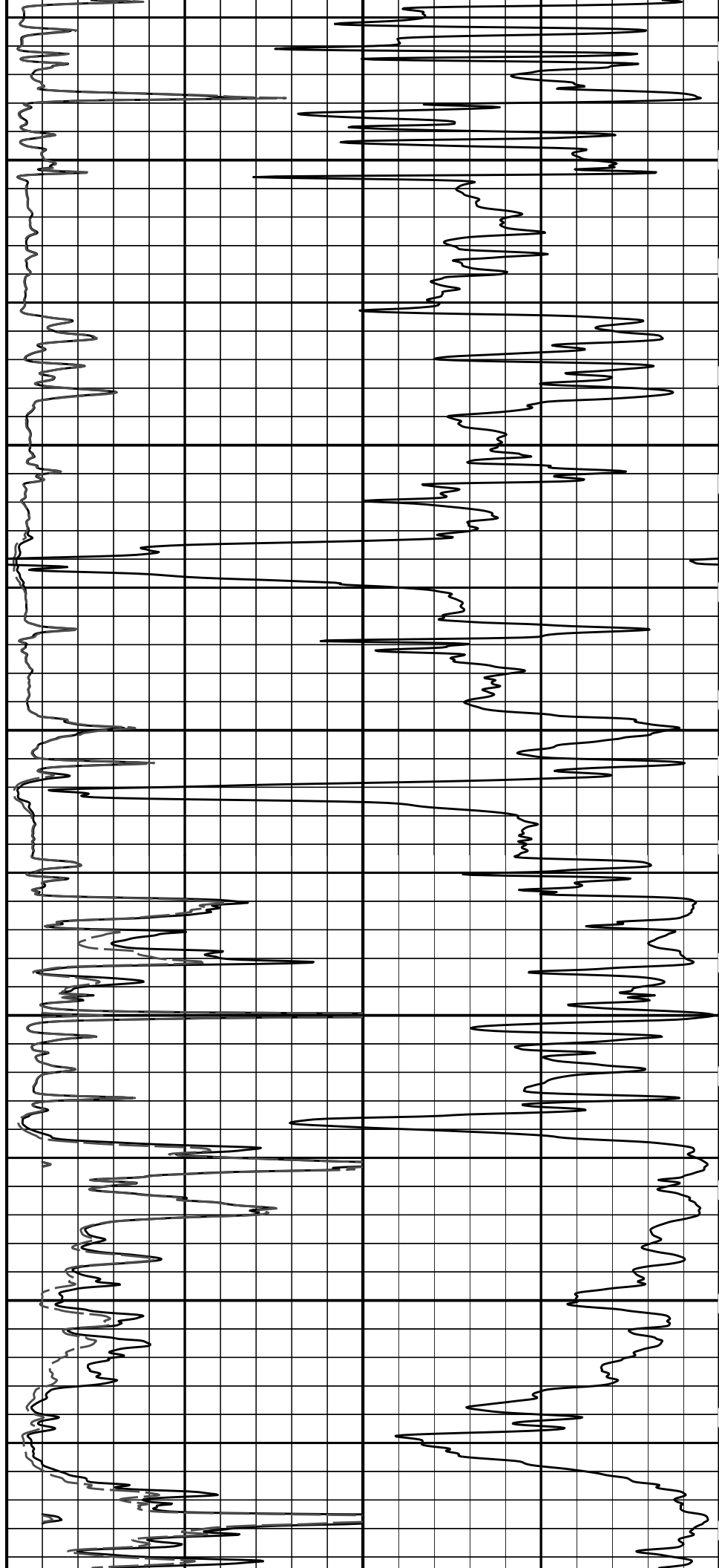
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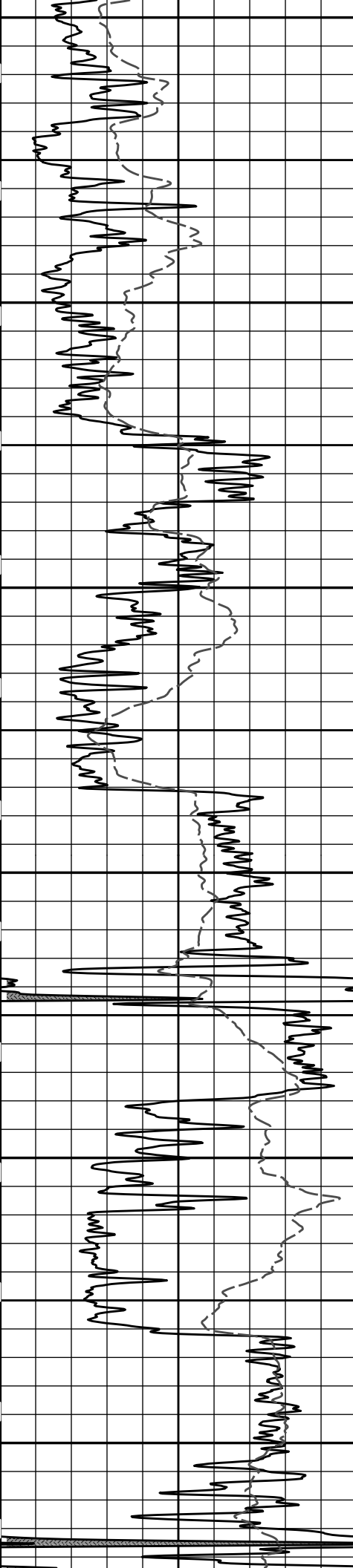
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2800

2900

3000





3100

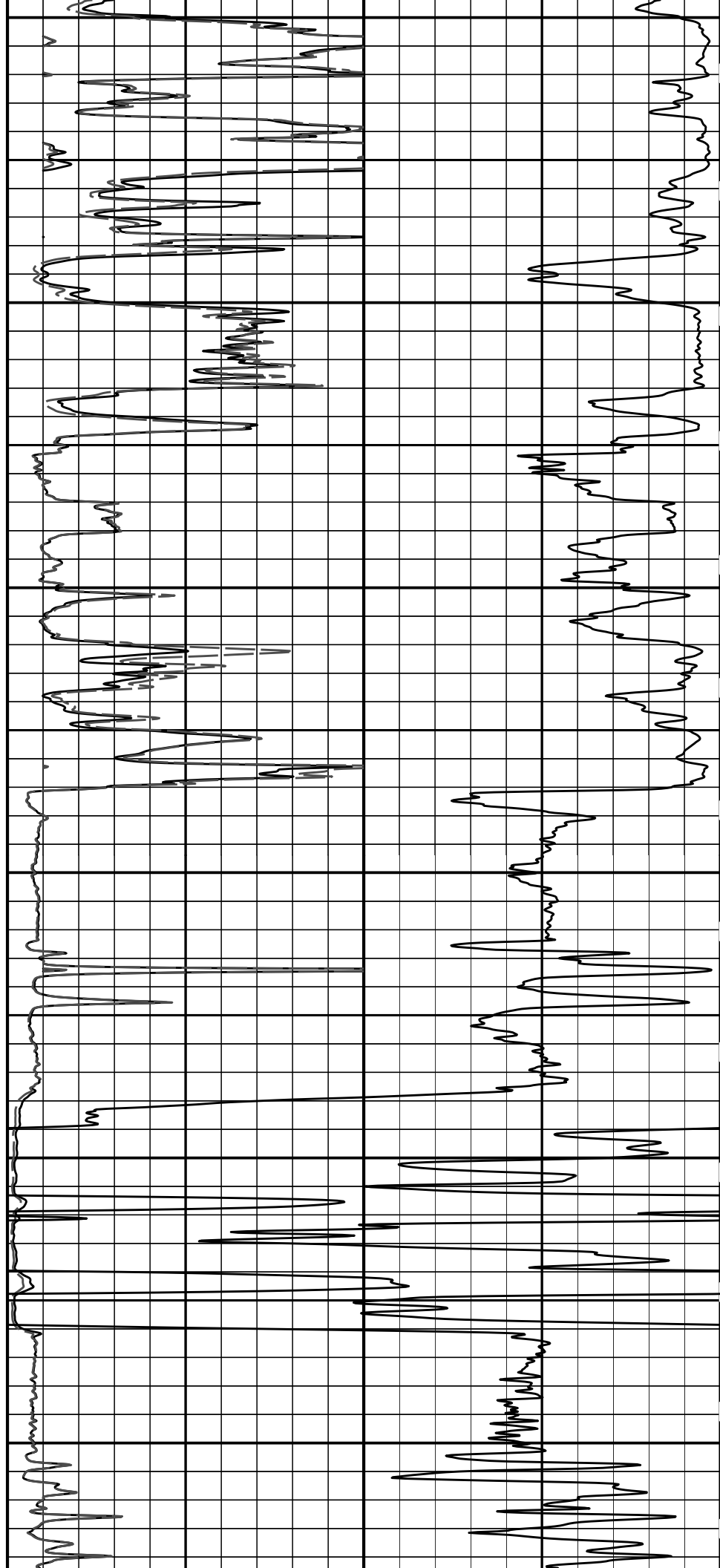
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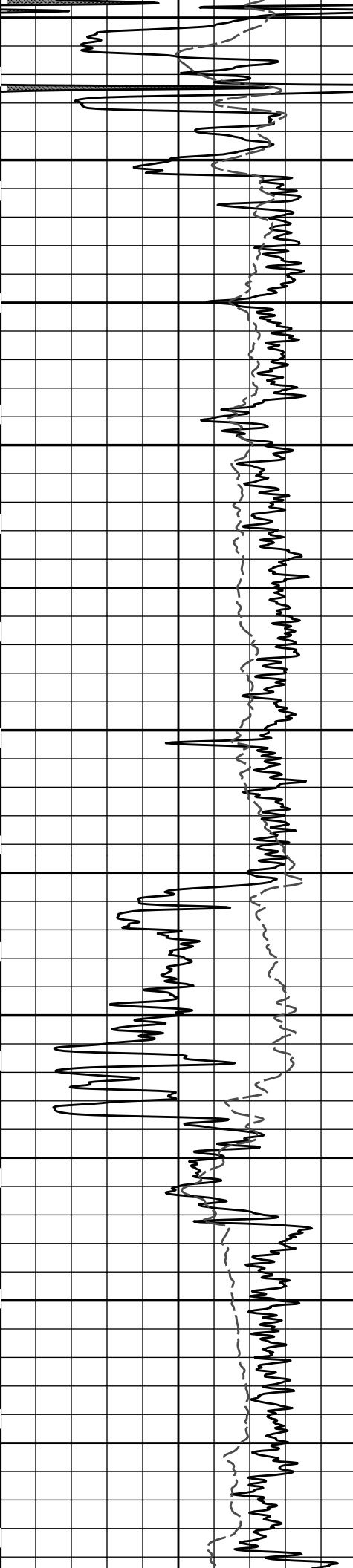
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3400

3500

3600





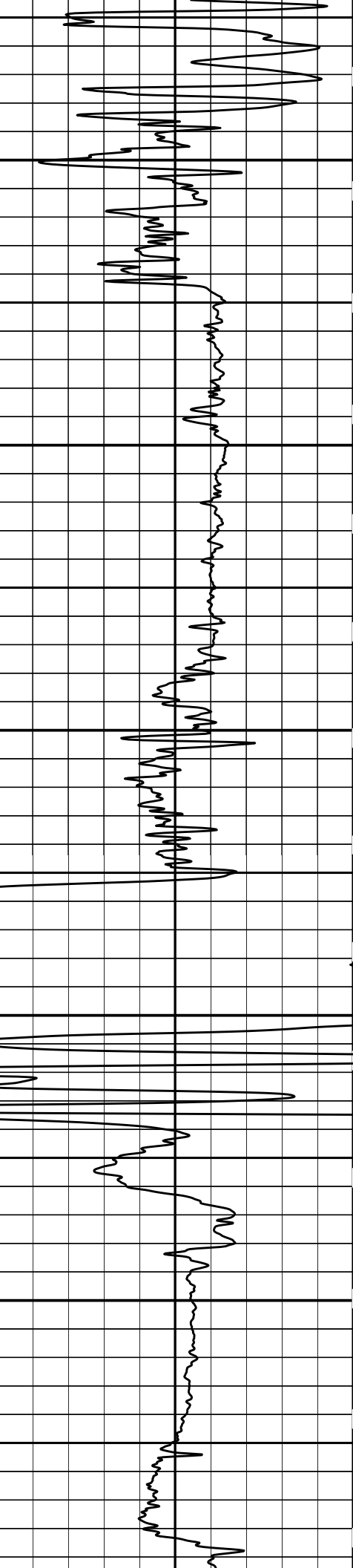
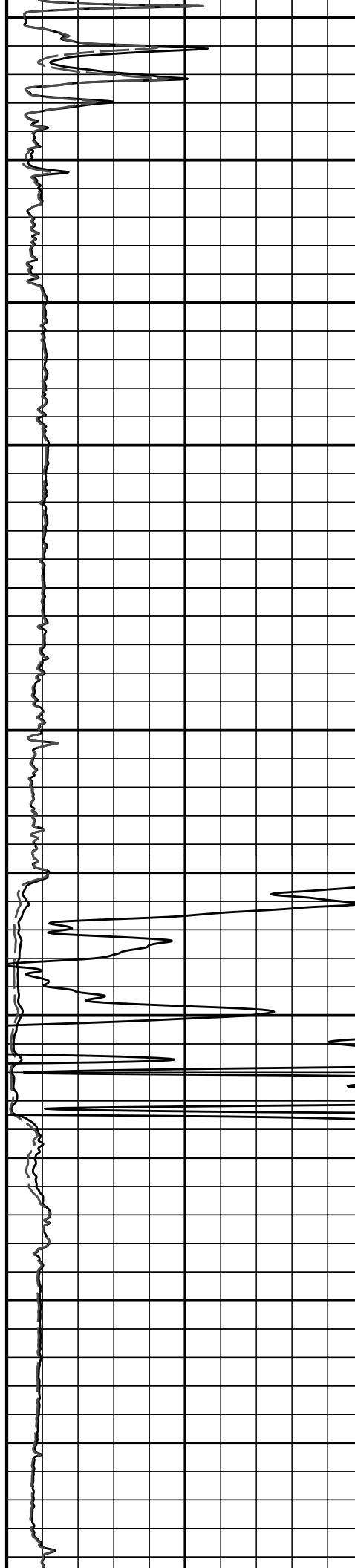
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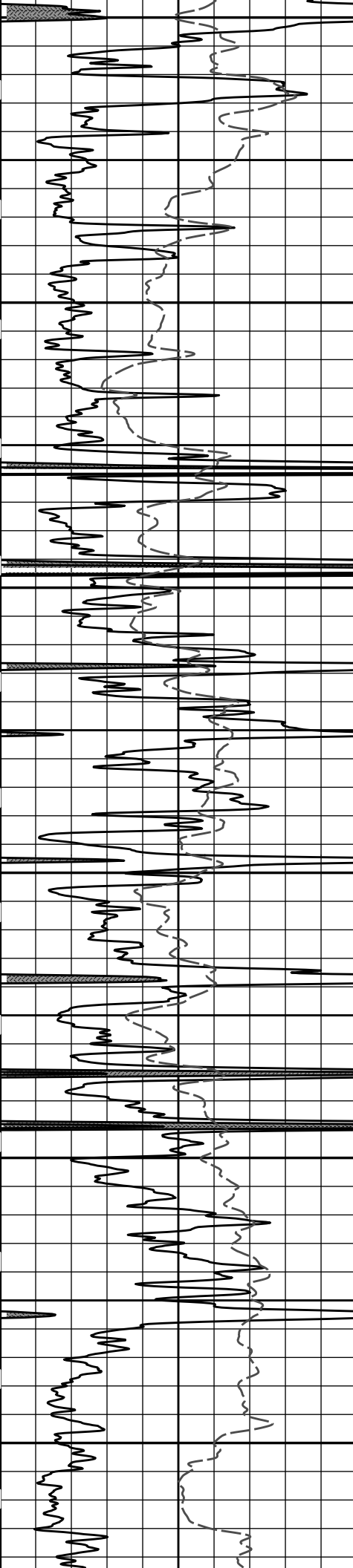
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3900

4000

4100





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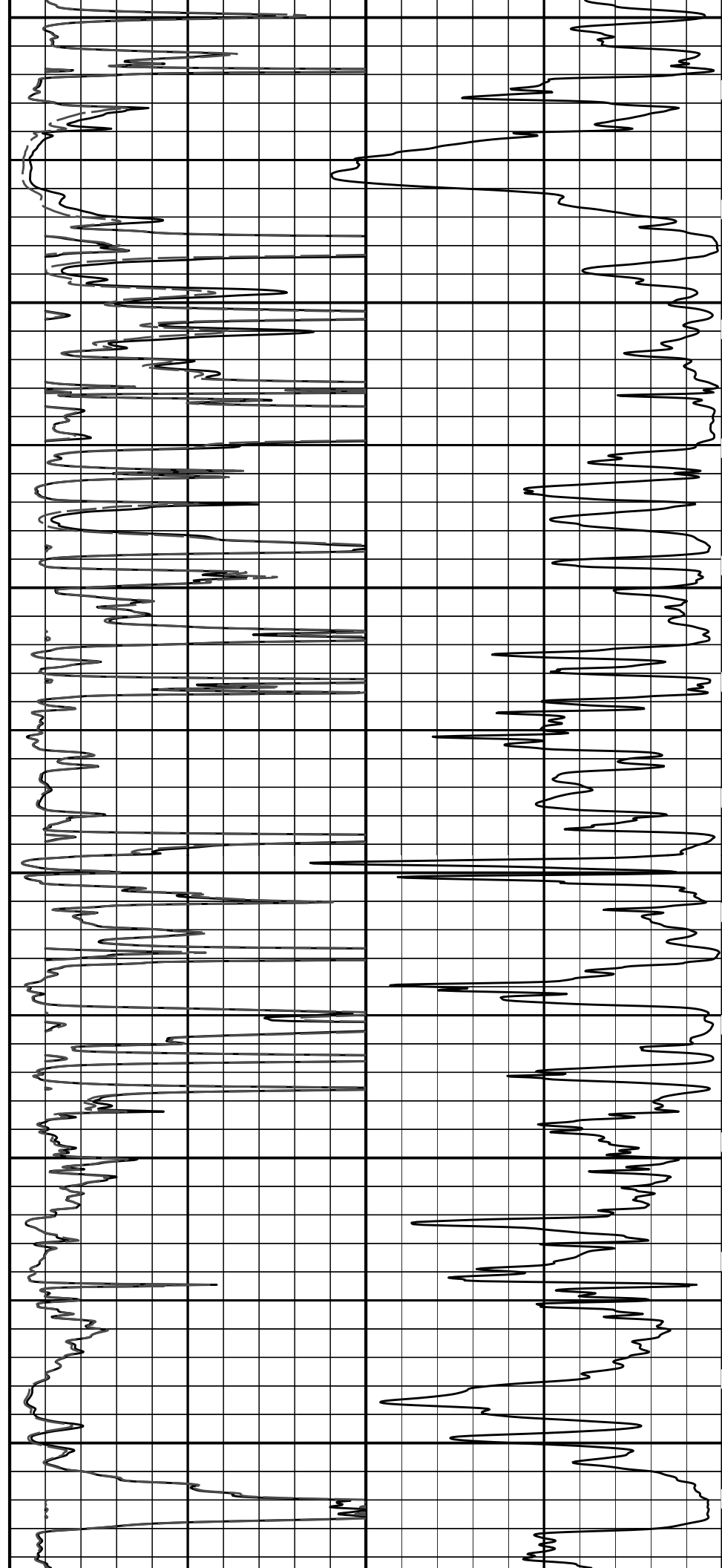
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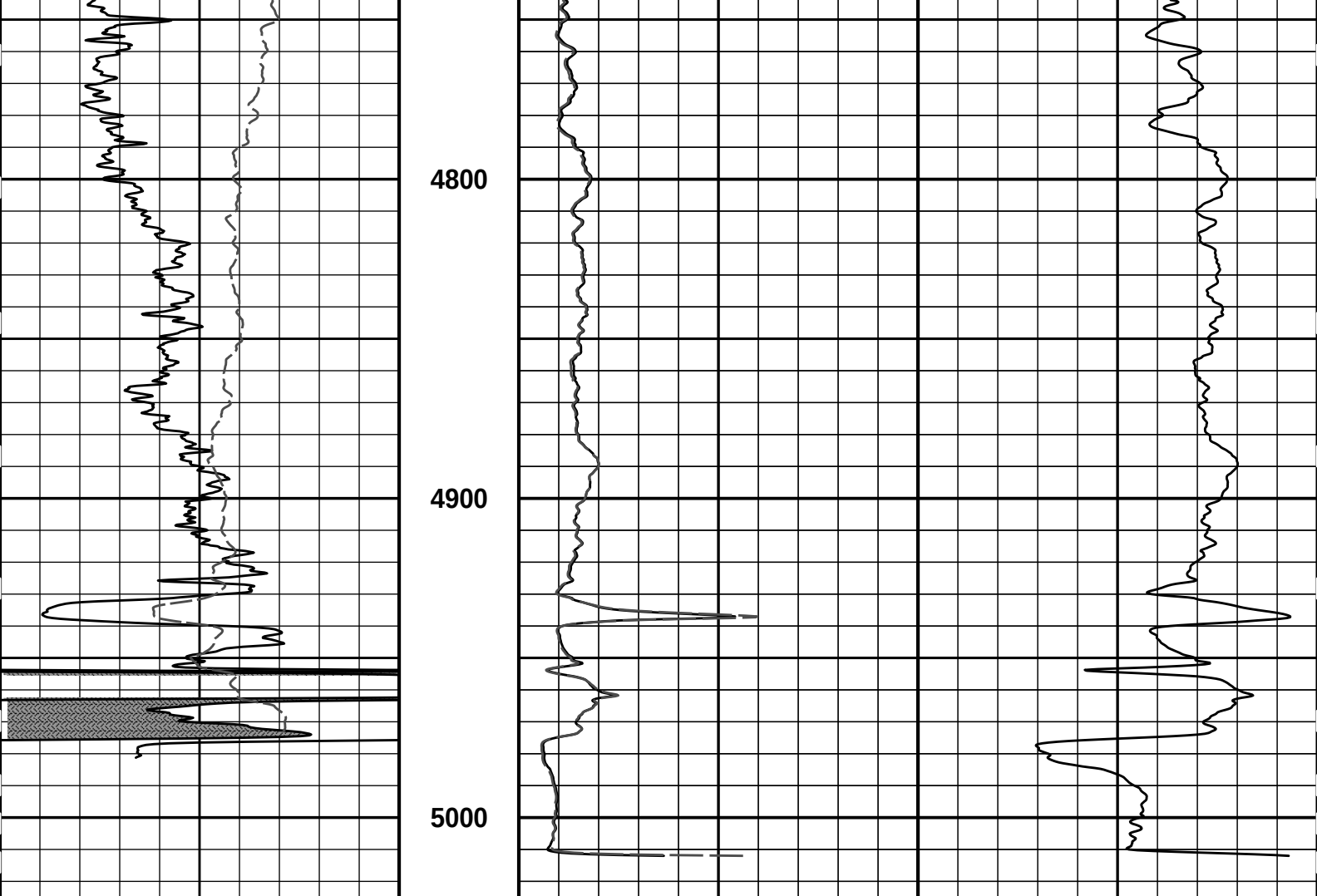
4400

4500

4600

4700





0Gamma API150		1 : 600 ft	020in Resistivity 2ft Res50		
api			ohm-metre		
SP			090in Resistivity 2ft Res50		
-]20[+			ohm-metre		
			100090in Conductivity 2ft Res0		
			mmho per metre		

HALLIBURTON

Plot Time: 27-Feb-13 06:44:11
Plot Range: 195 ft to 5025.08 ft
Data: HICKOCK_2-23\Well Based\VAL_HICKOCK_CASING\
Plot File: \\-LOCAL-\\HICKOCK_2-23\Well Based\ACRT\ACRT_2_lib

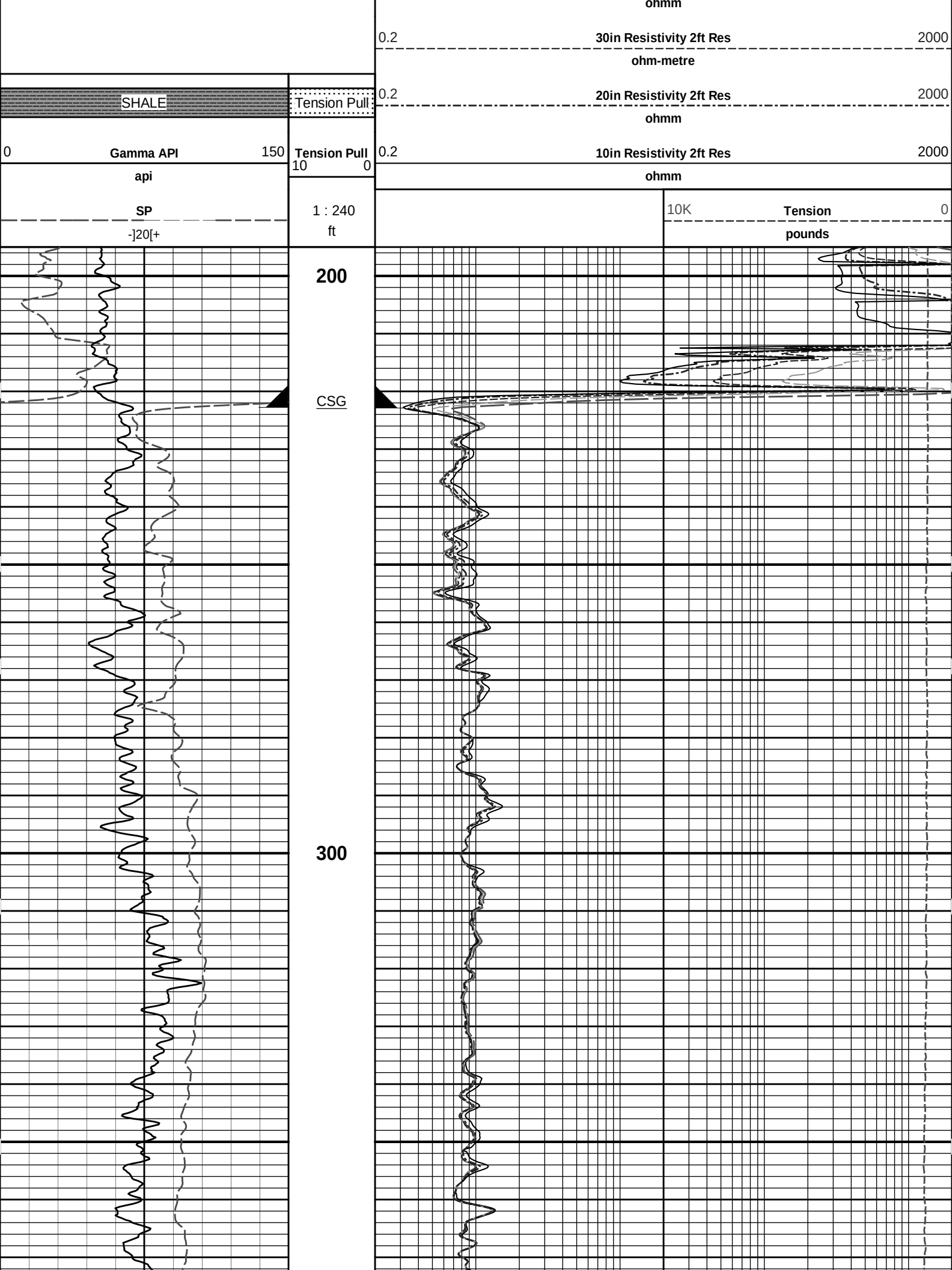
2 INCH MAIN LOG

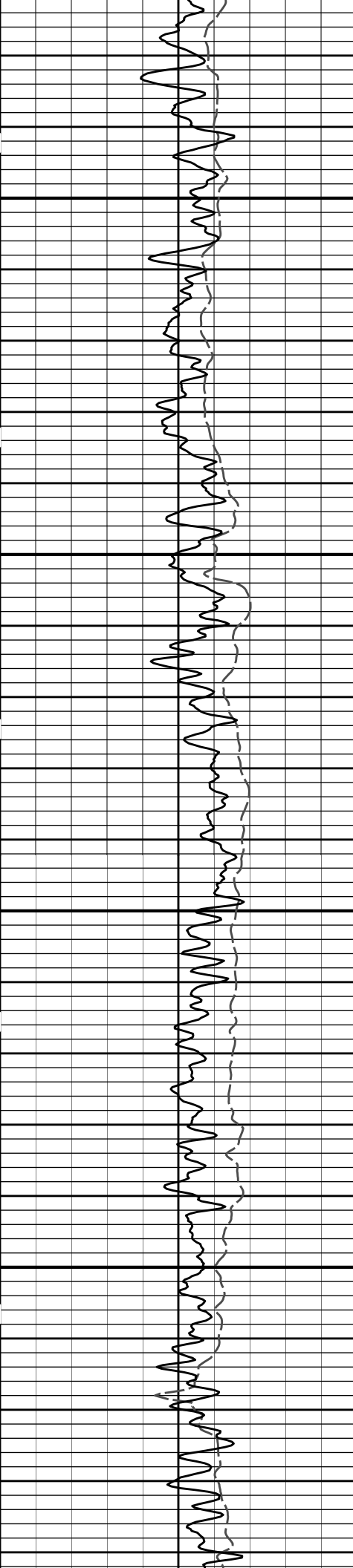
HALLIBURTON

Plot Time: 27-Feb-13 06:44:11
Plot Range: 195 ft to 5025.08 ft
Data: HICKOCK_2-23\Well Based\VAL_HICKOCK_CASING\
Plot File: \\-LOCAL-\\HICKOCK_2-23\Well Based\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

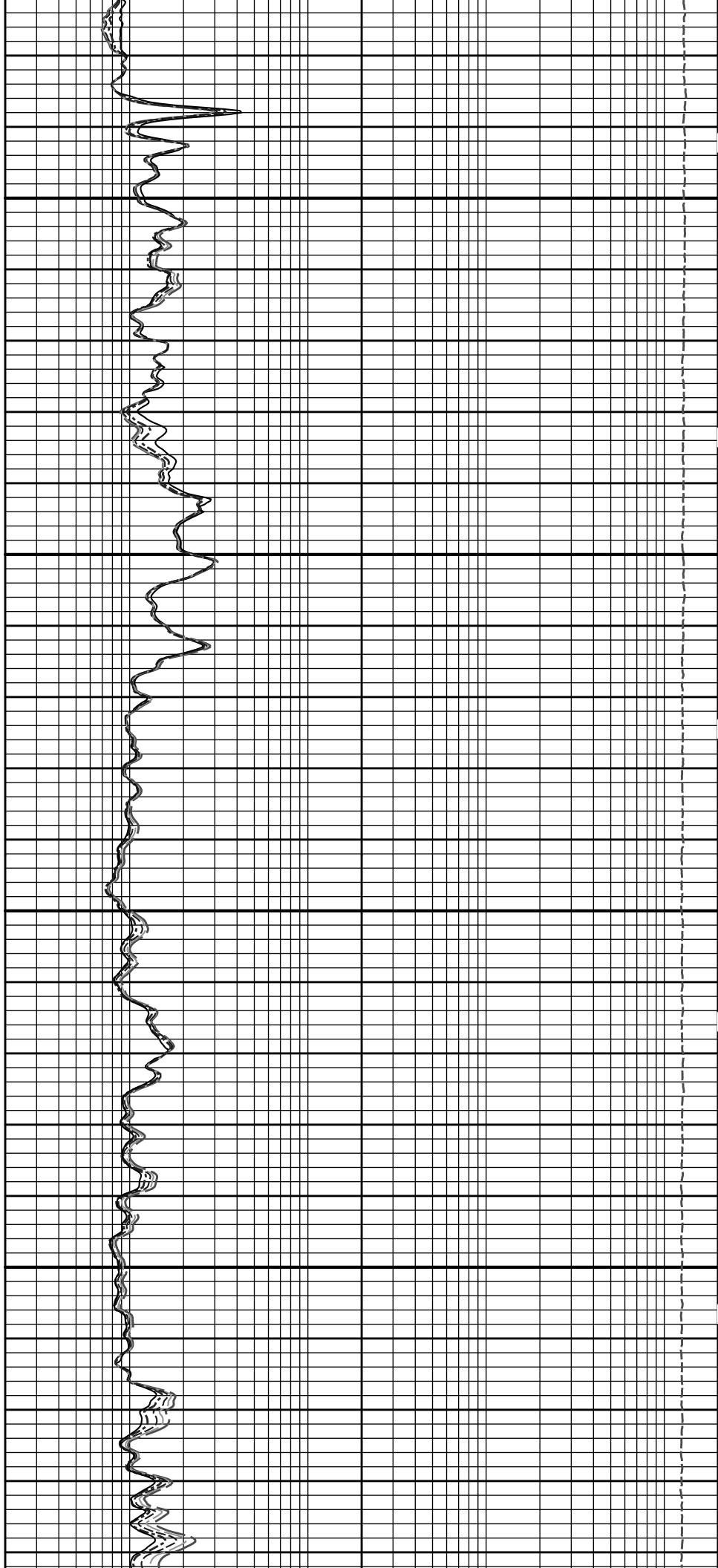
0.2	90in Resistivity 2ft Res	2000
ohmm		
0.2	60in Resistivity 2ft Res	2000

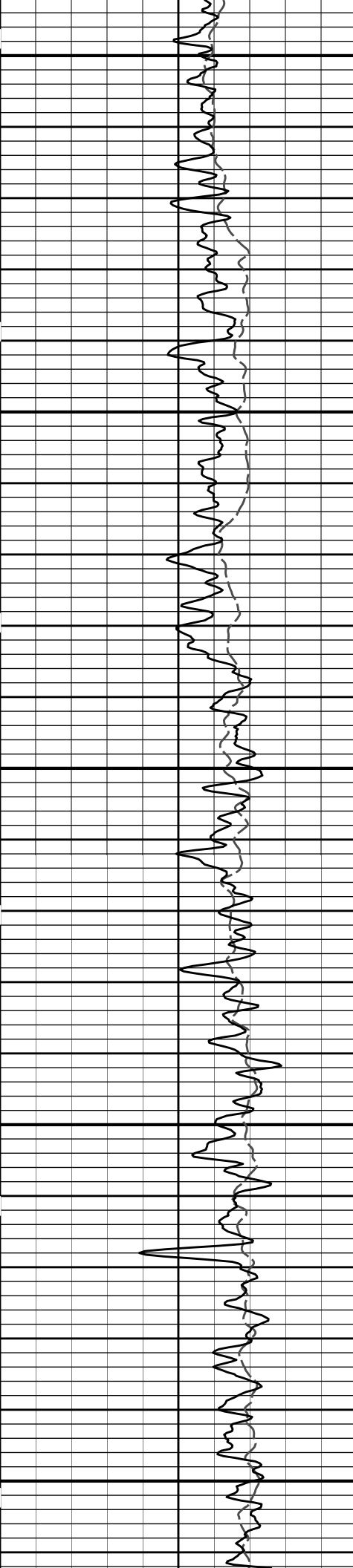




400

500

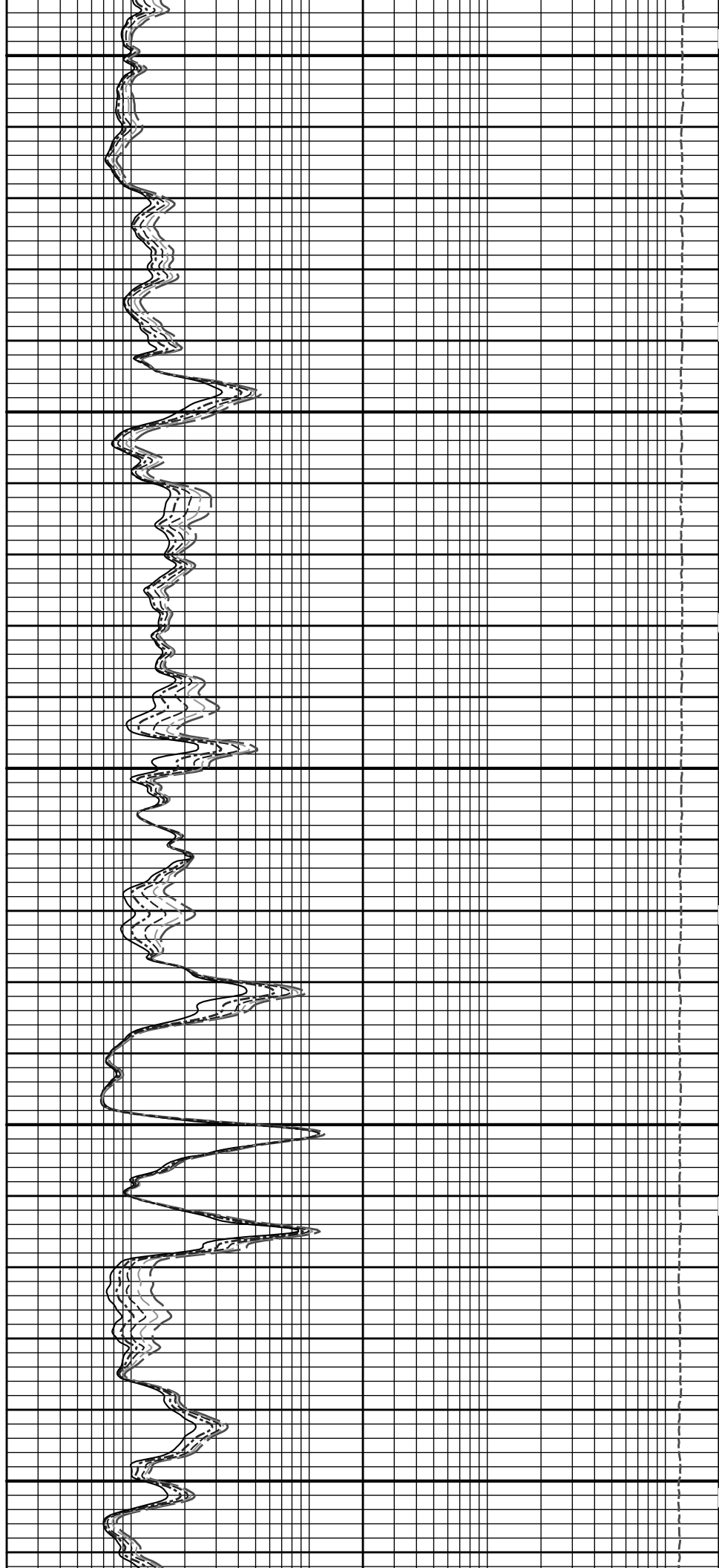


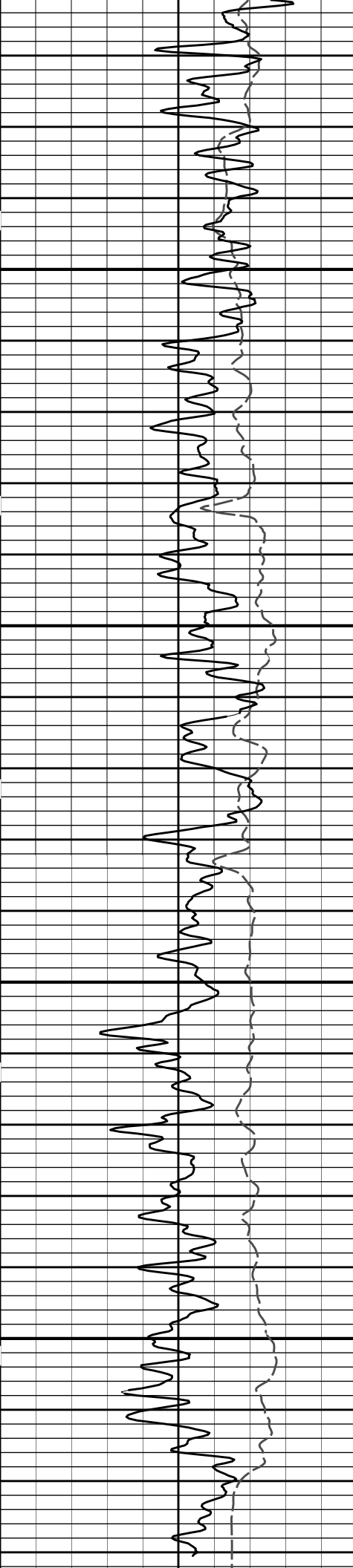


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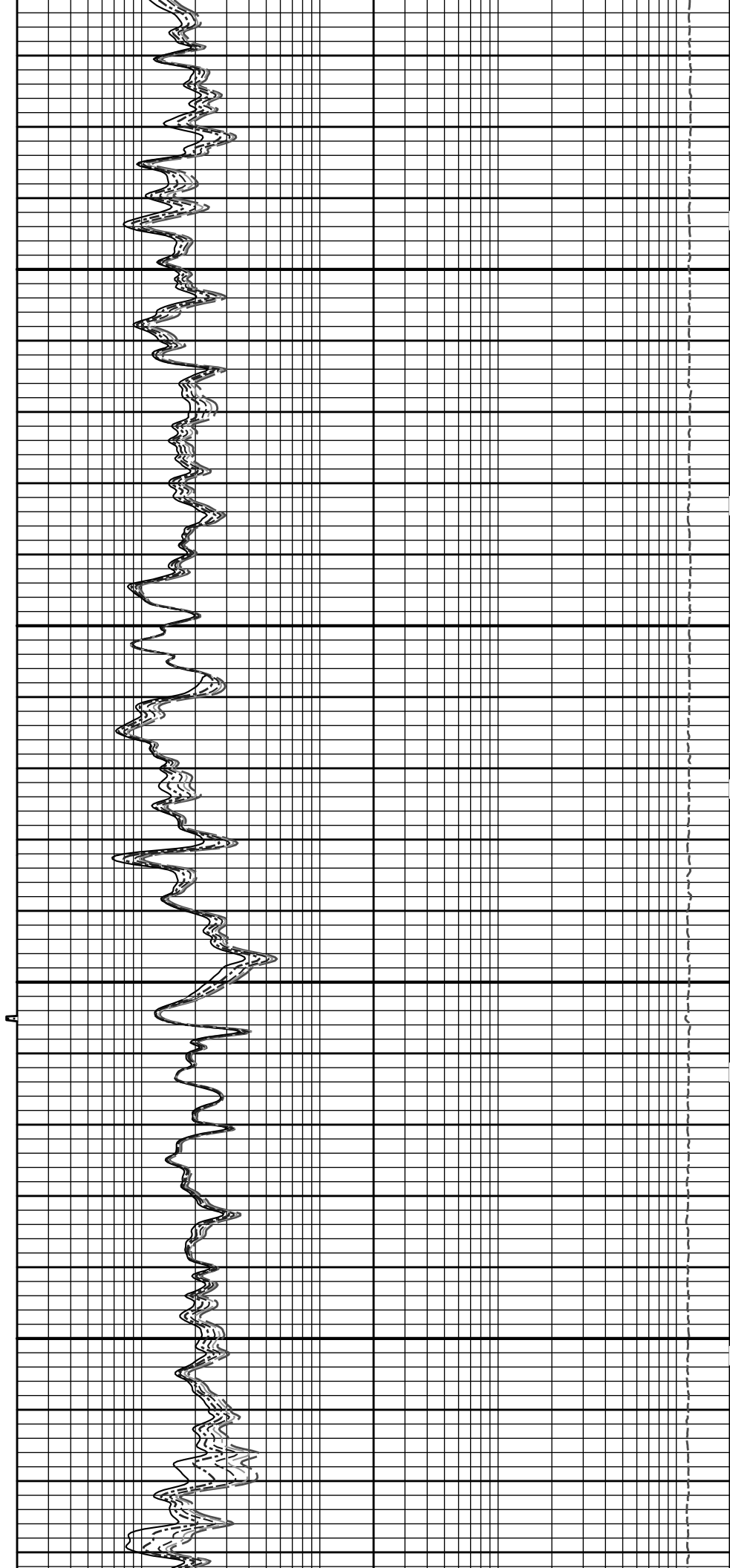
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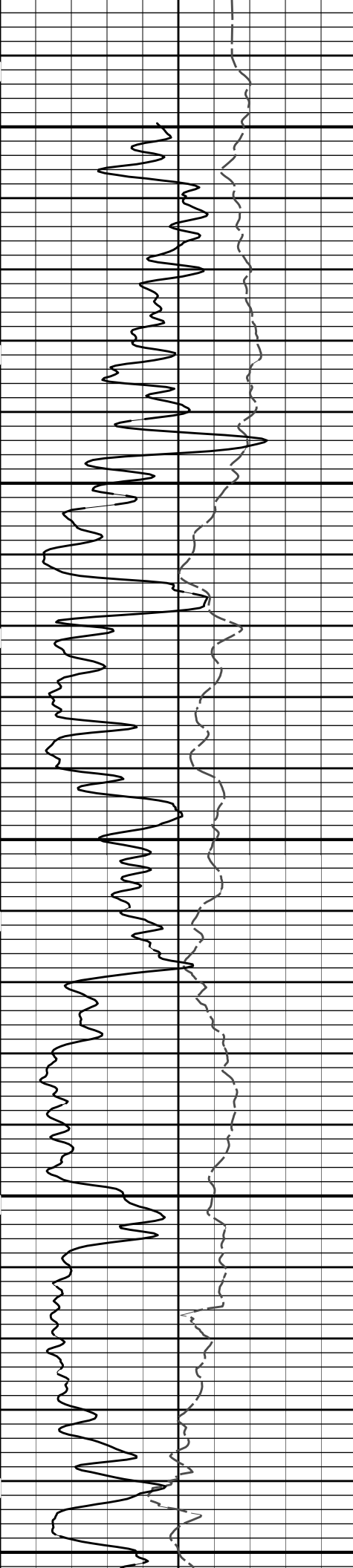




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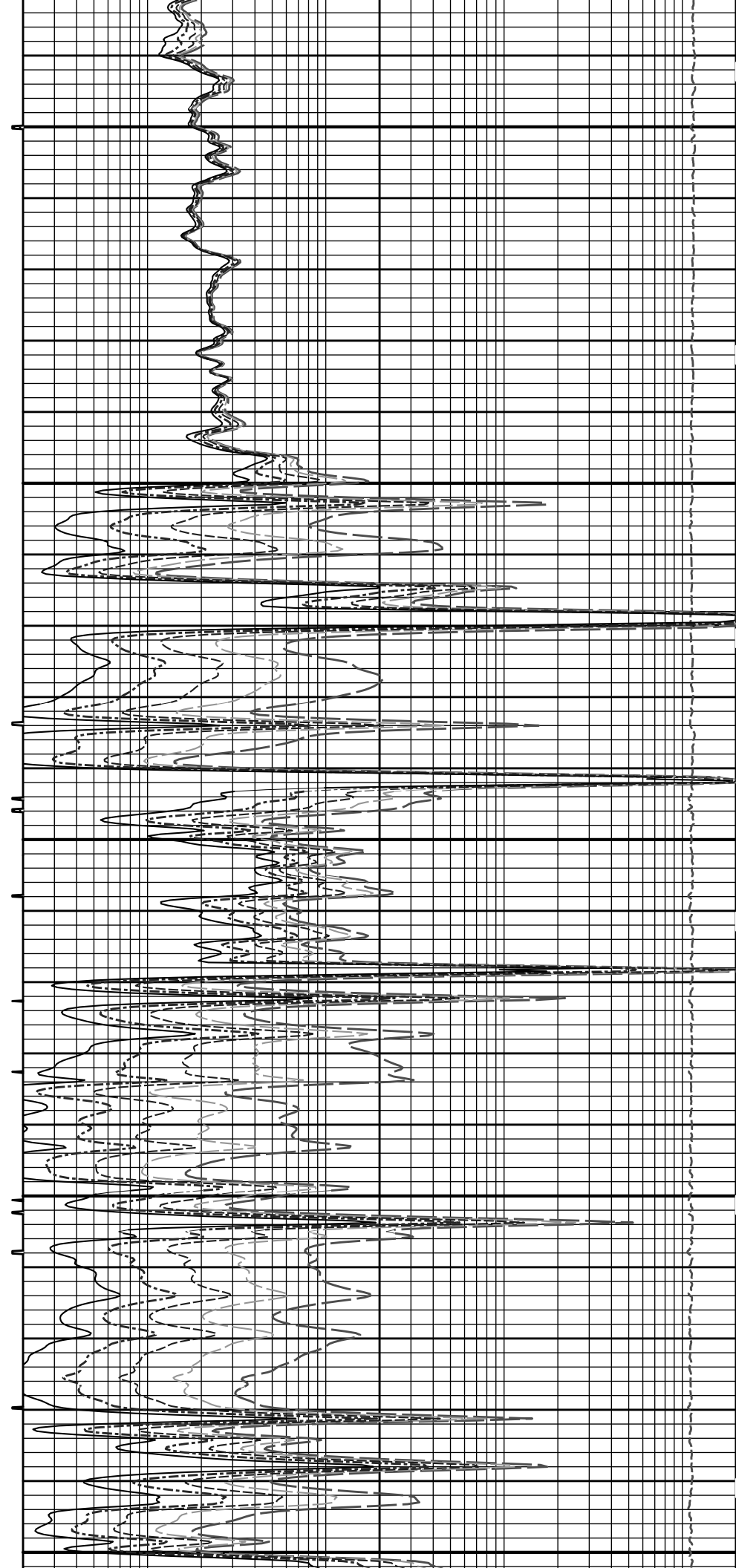
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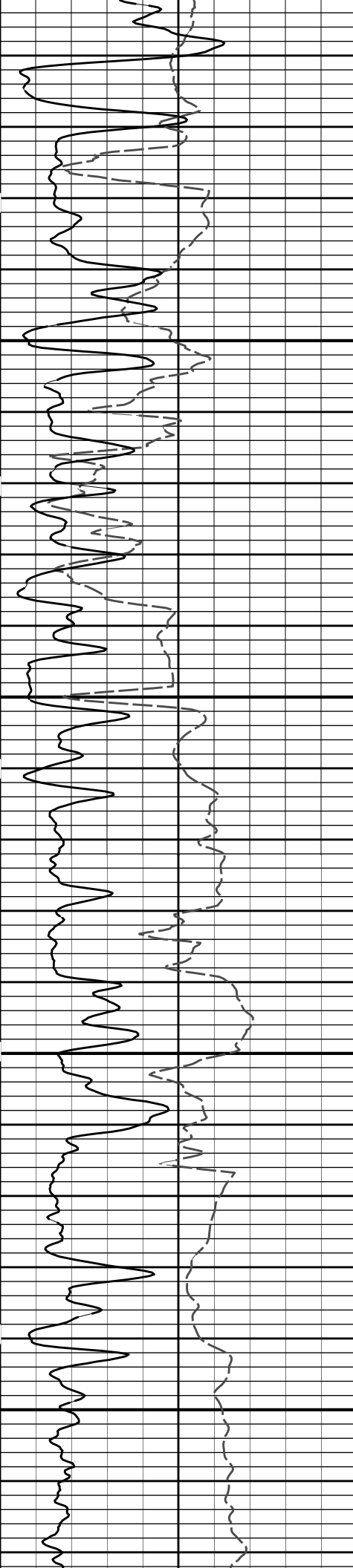




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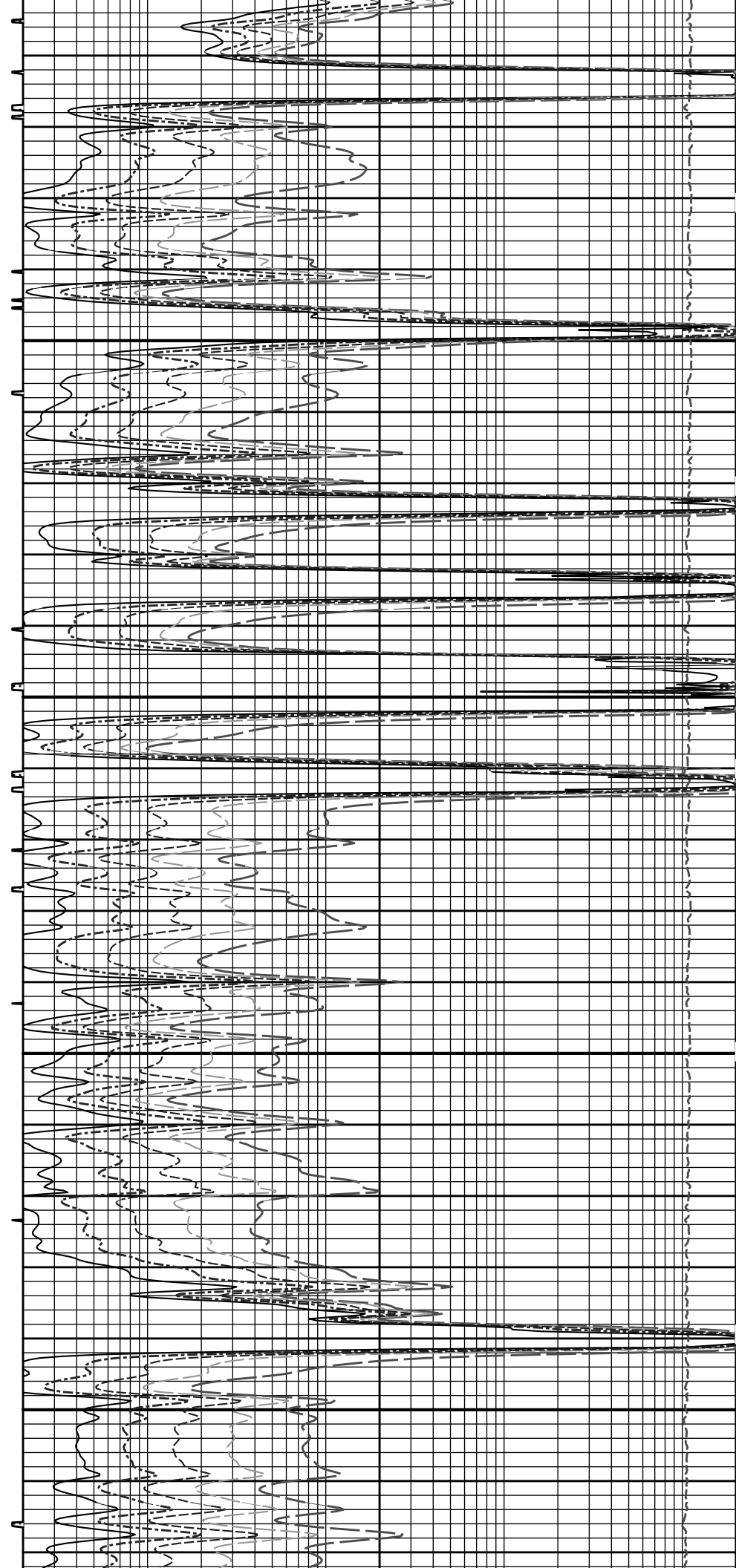
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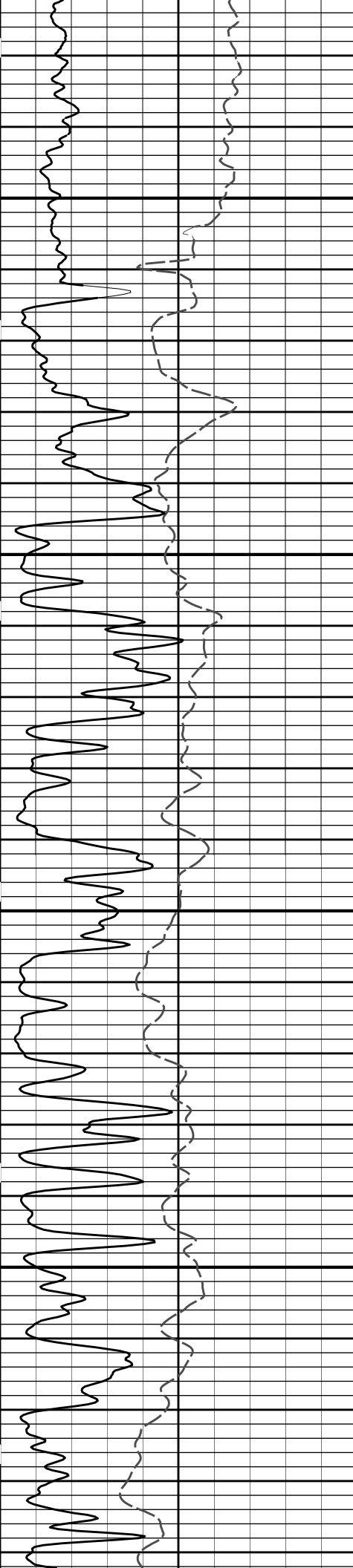




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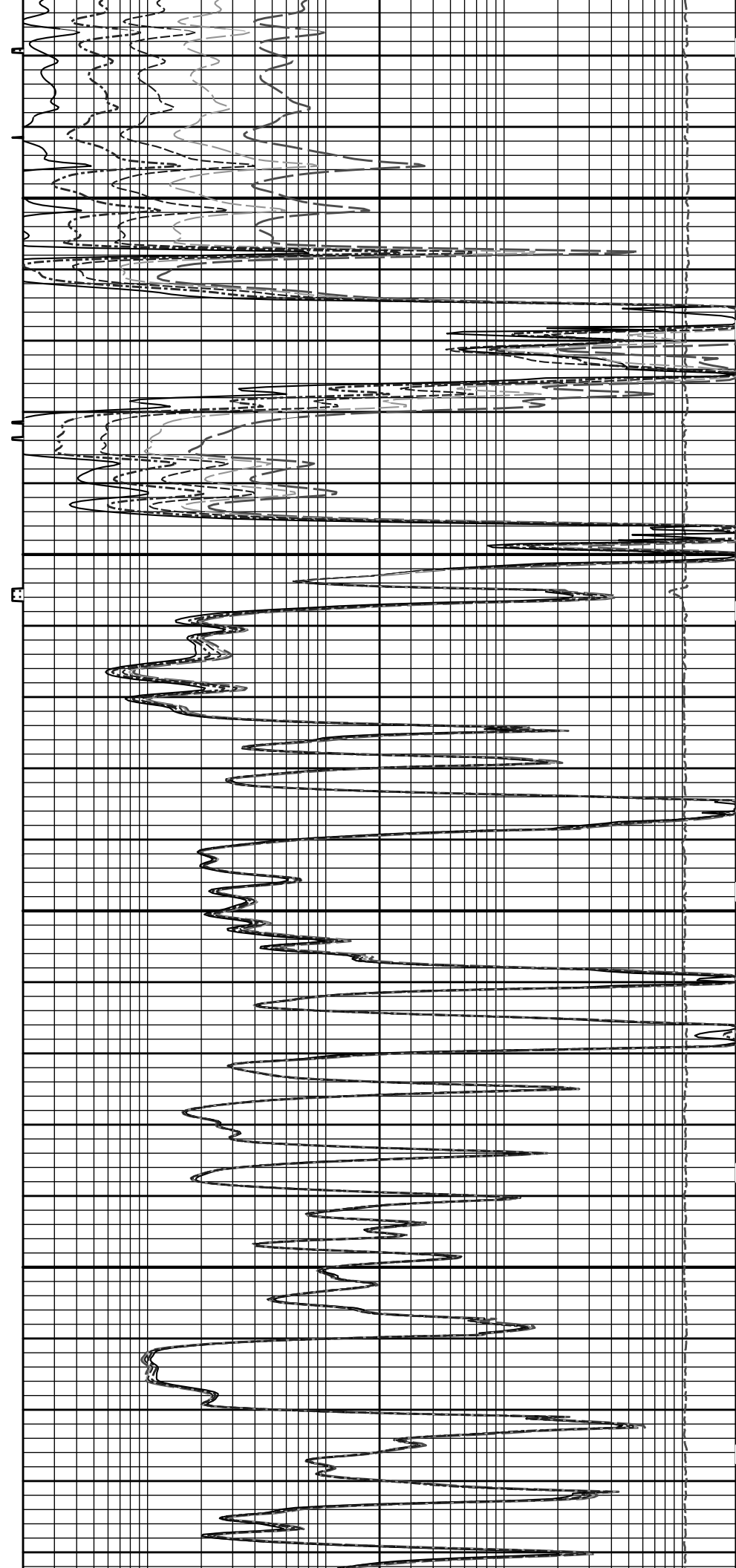
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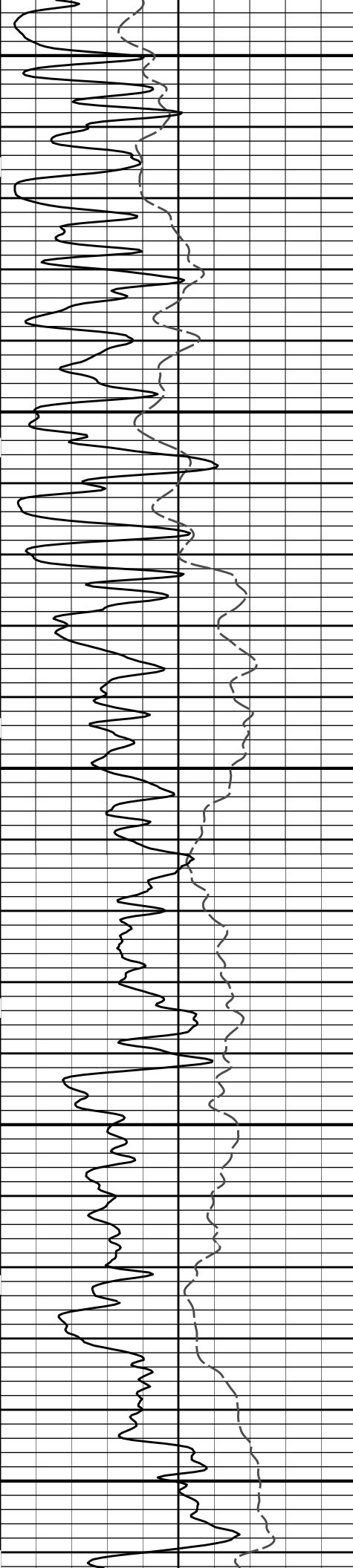




1500

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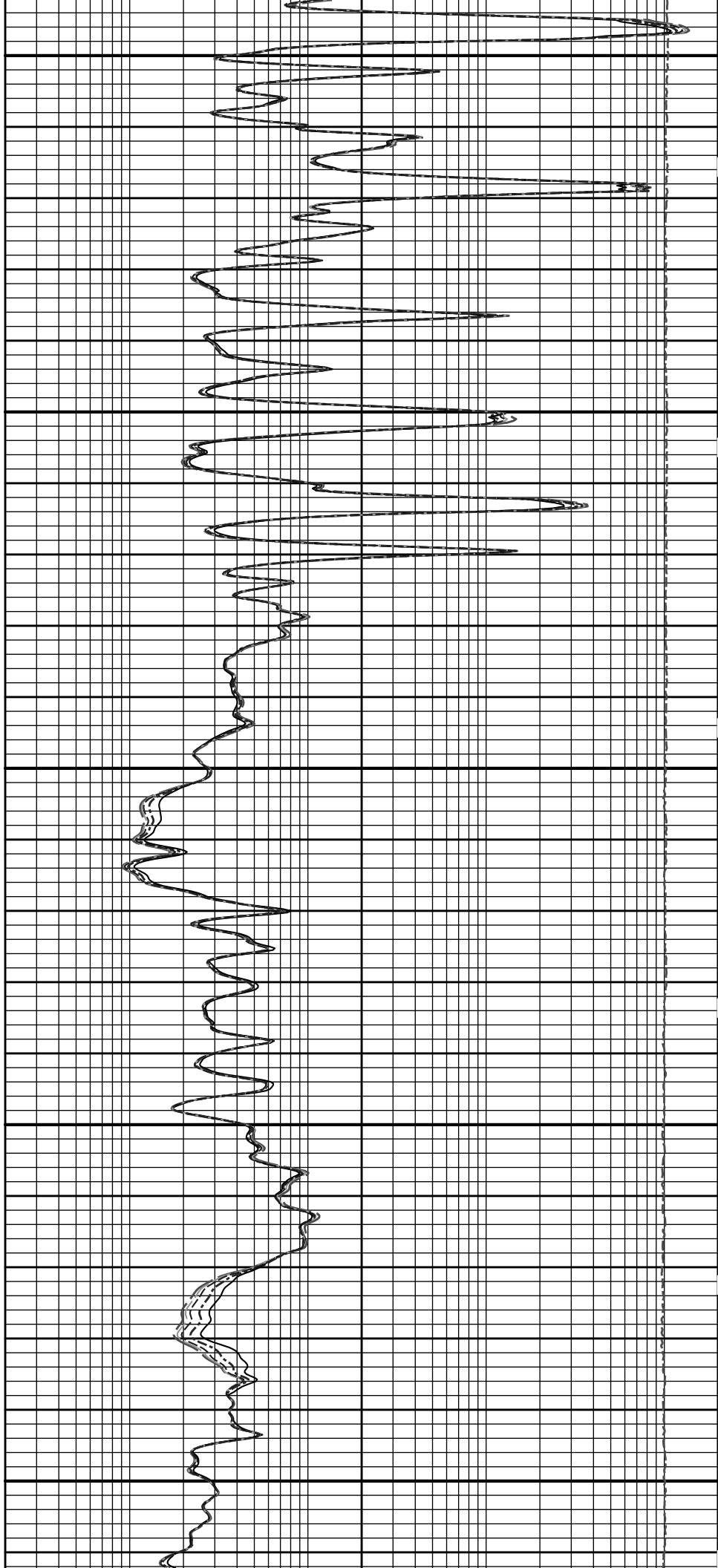


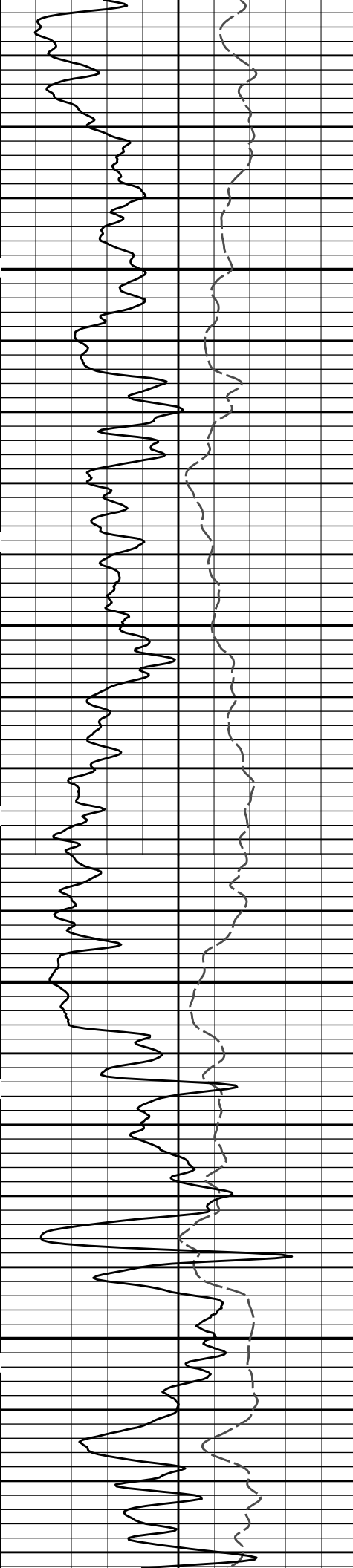


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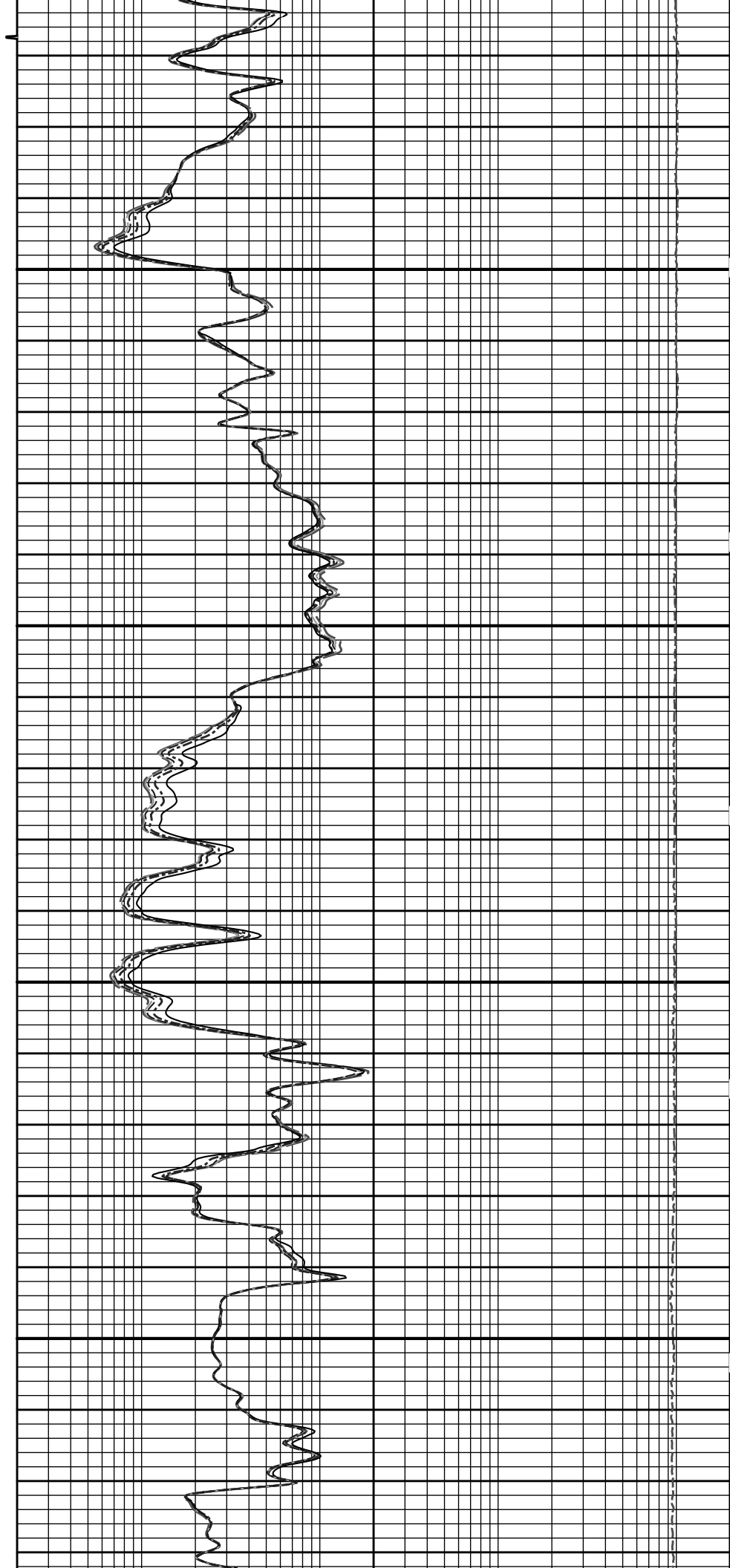
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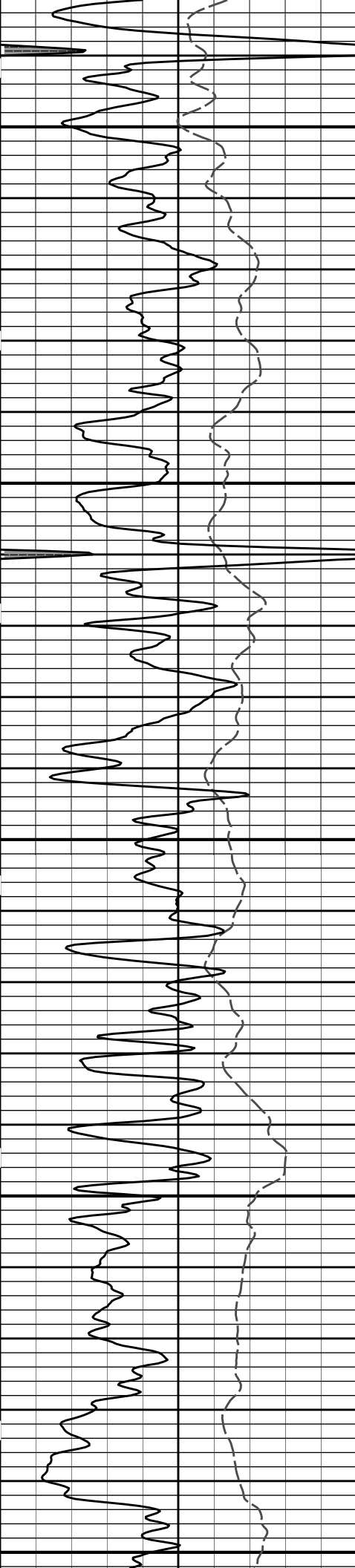




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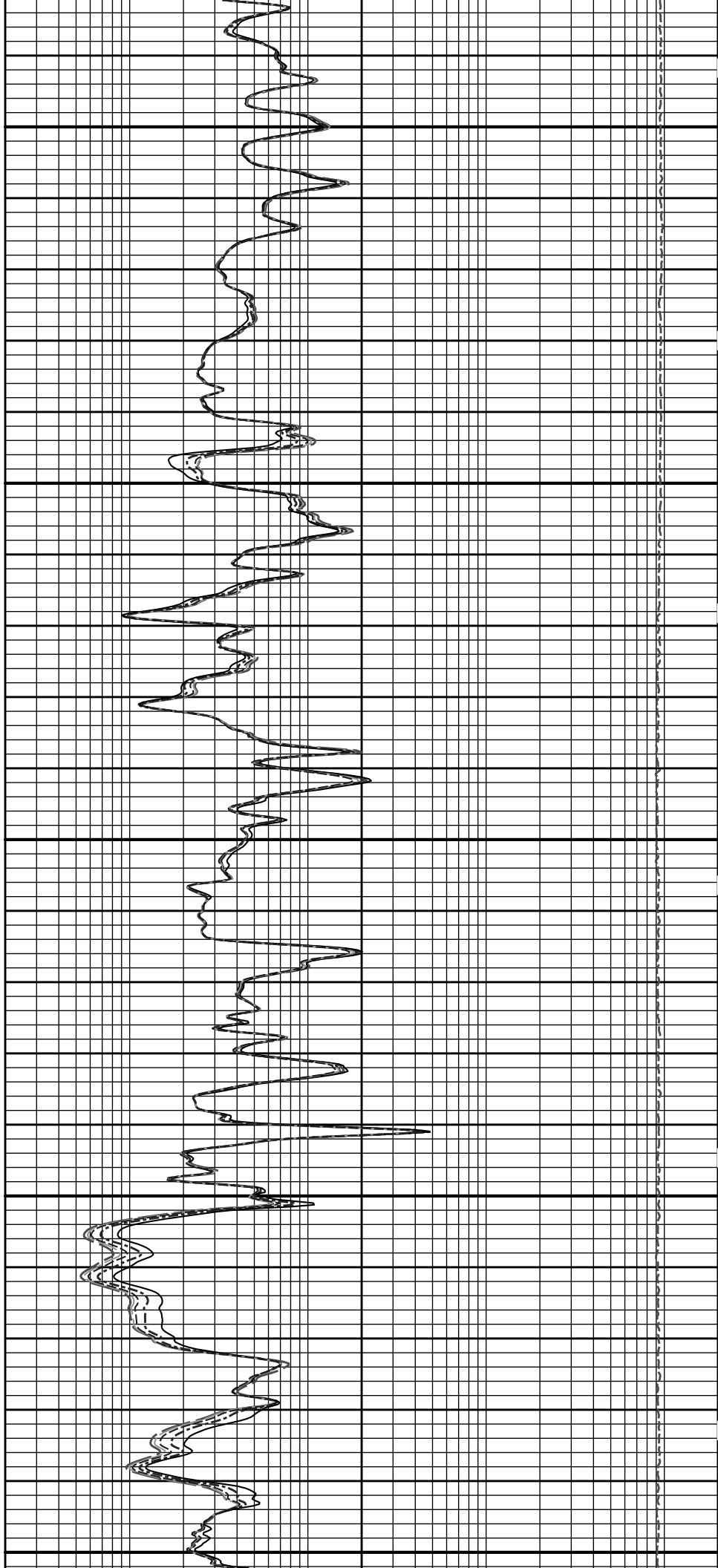
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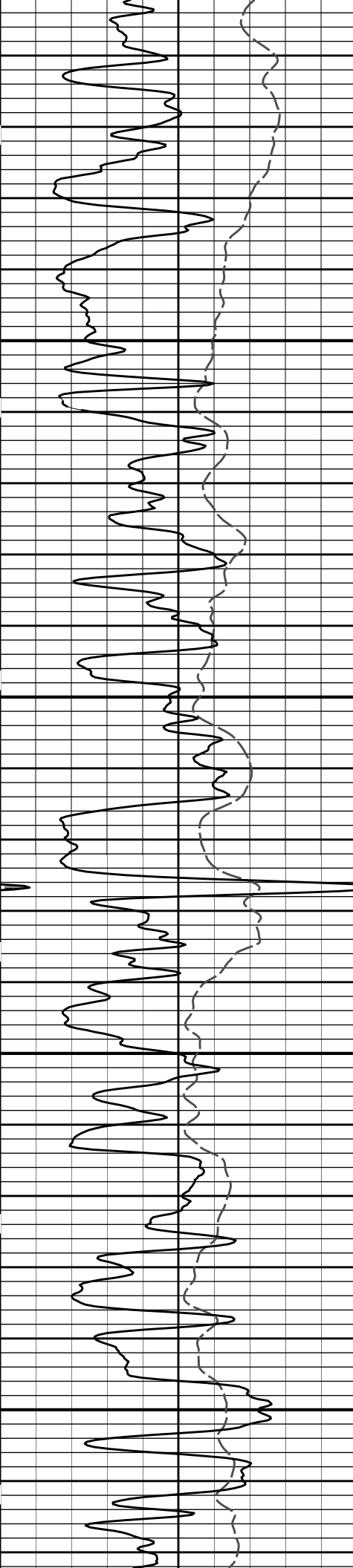




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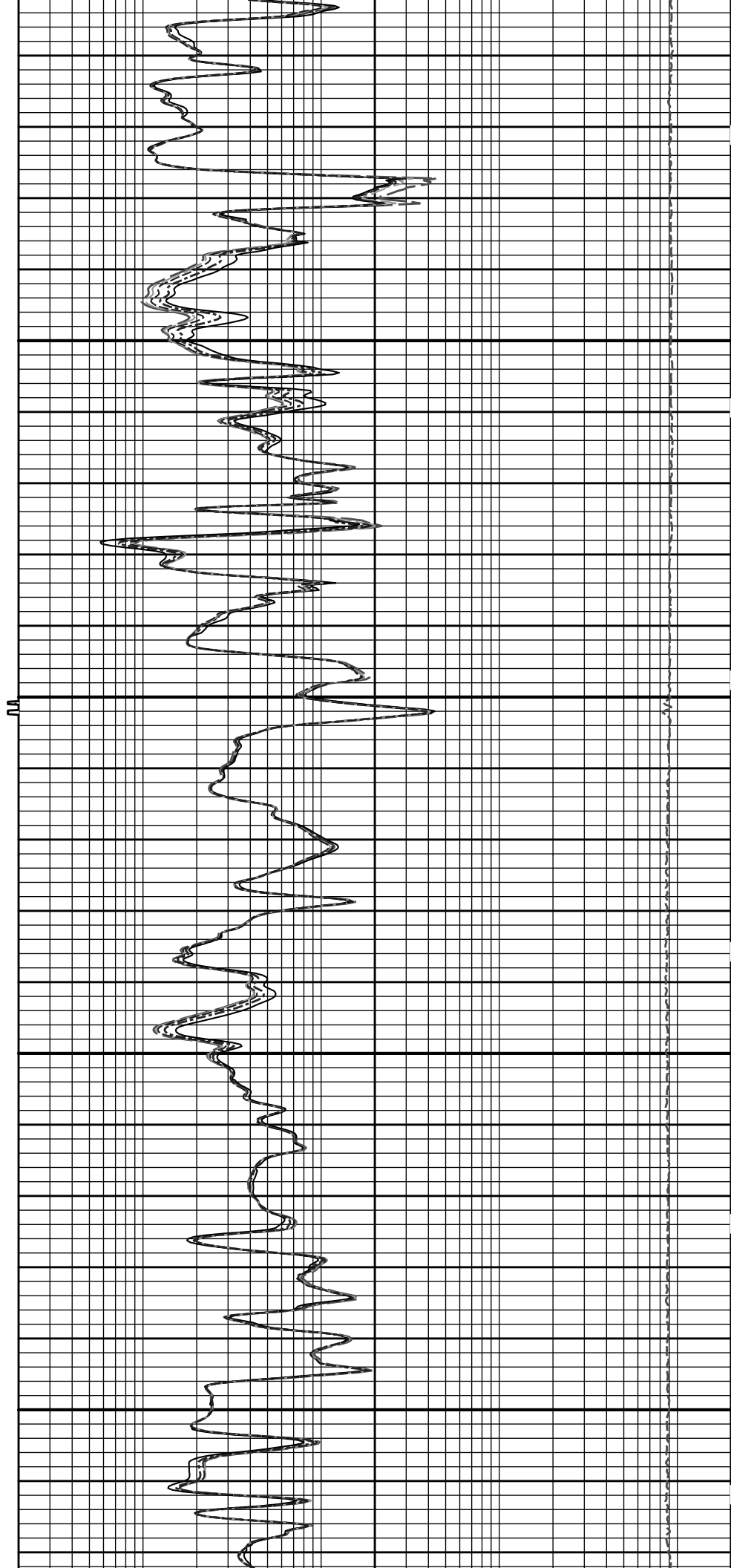
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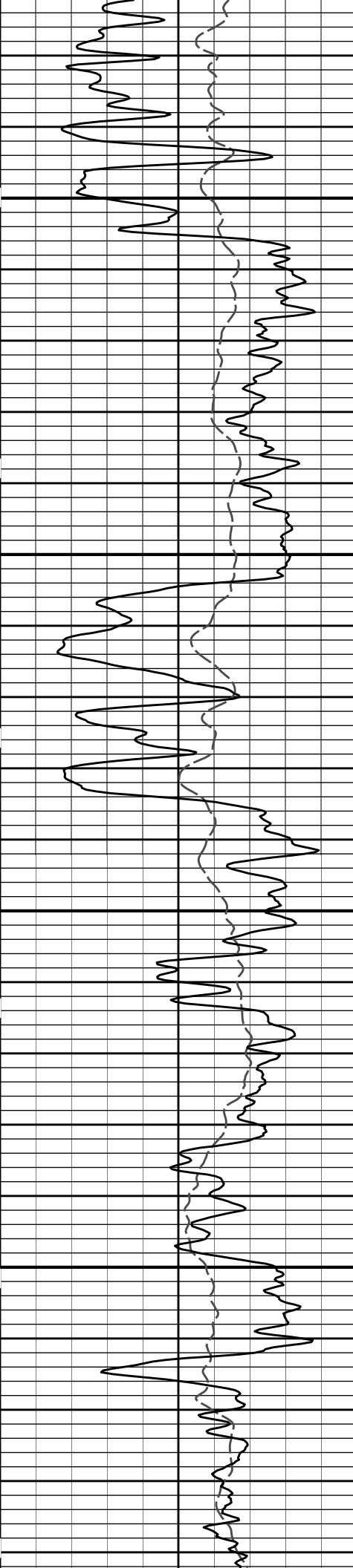




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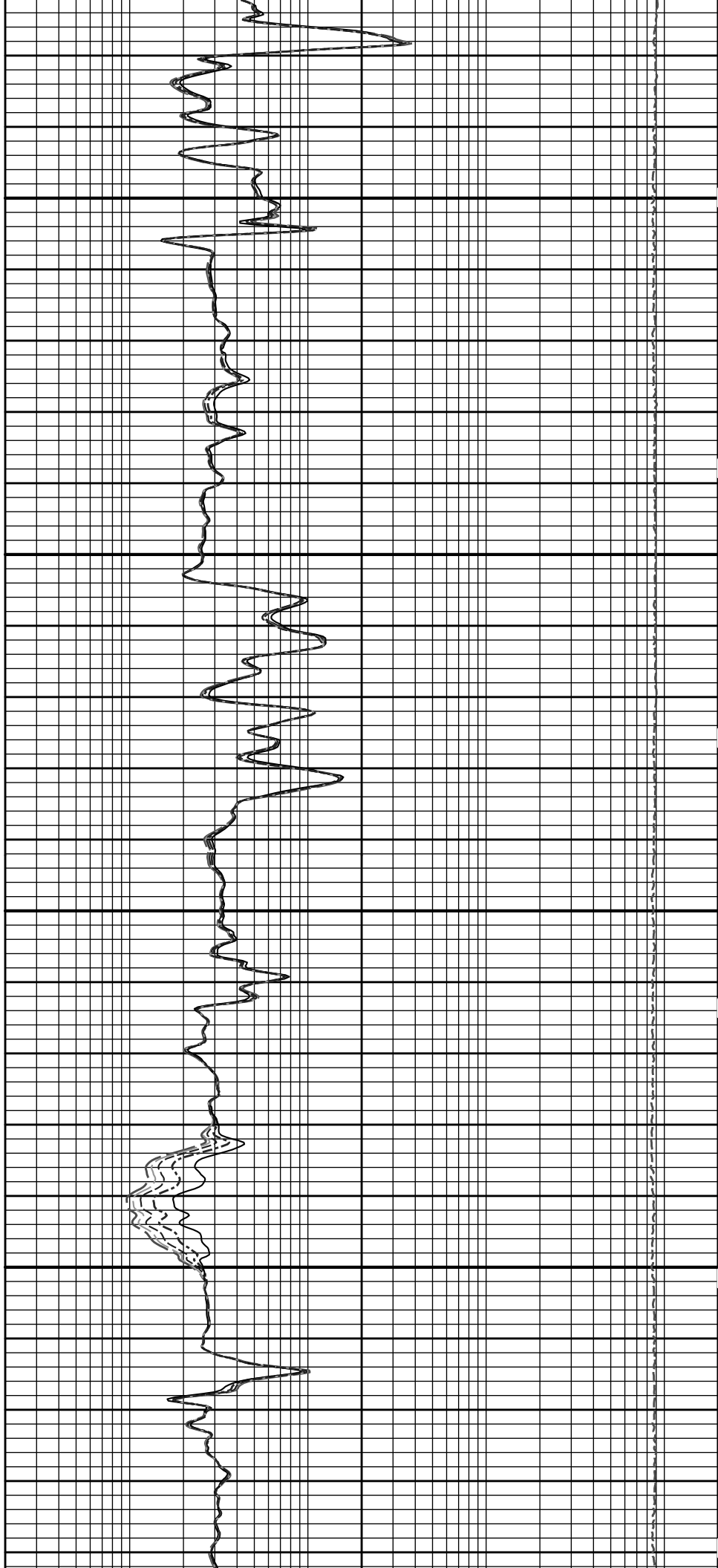
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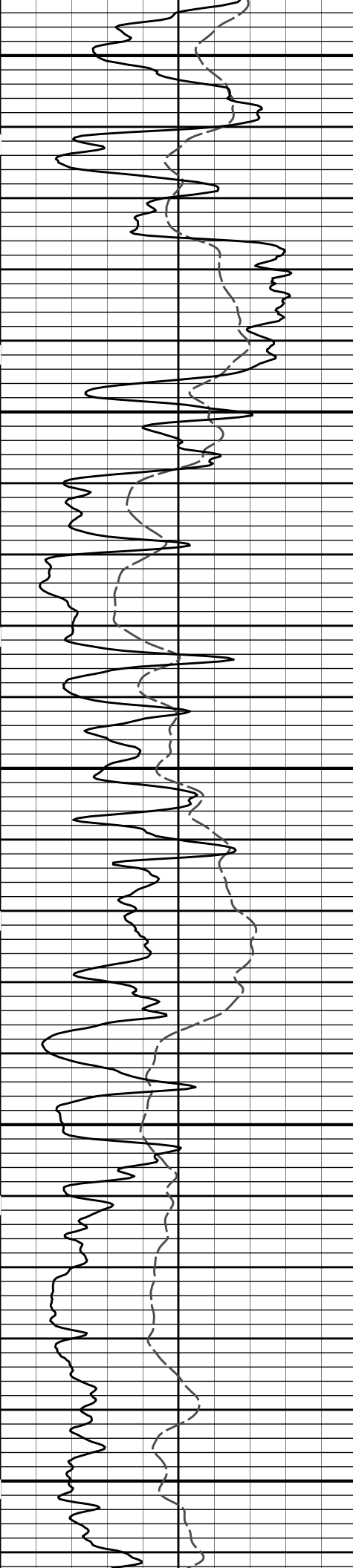




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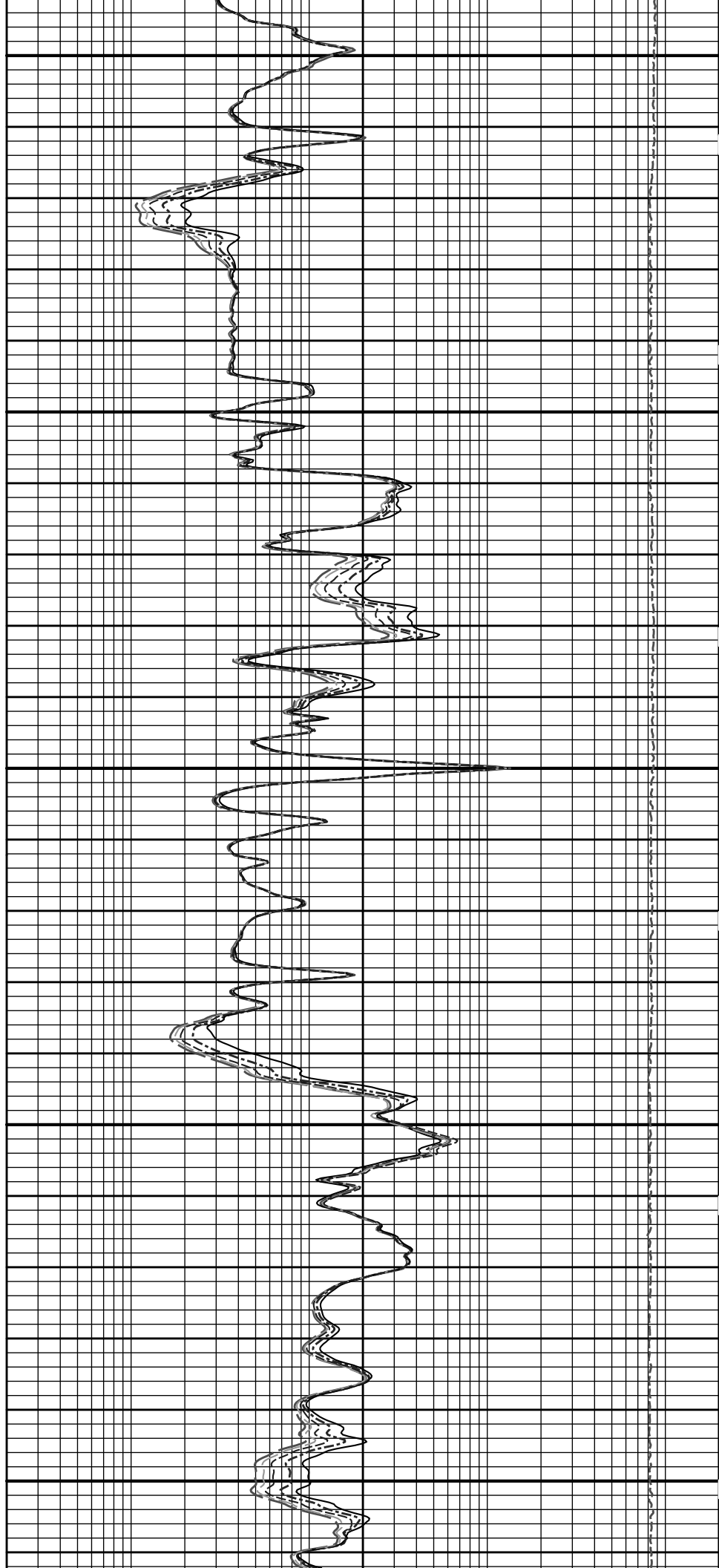


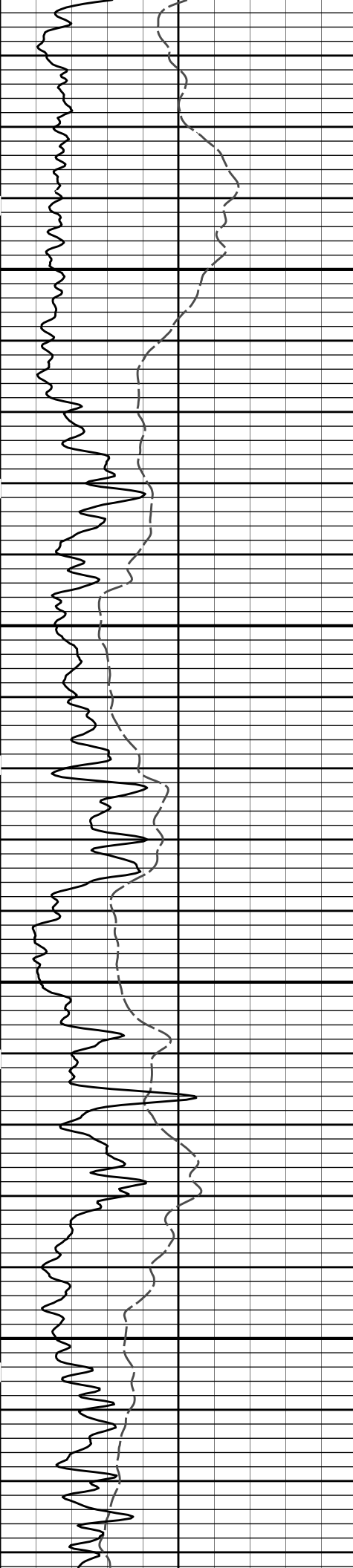


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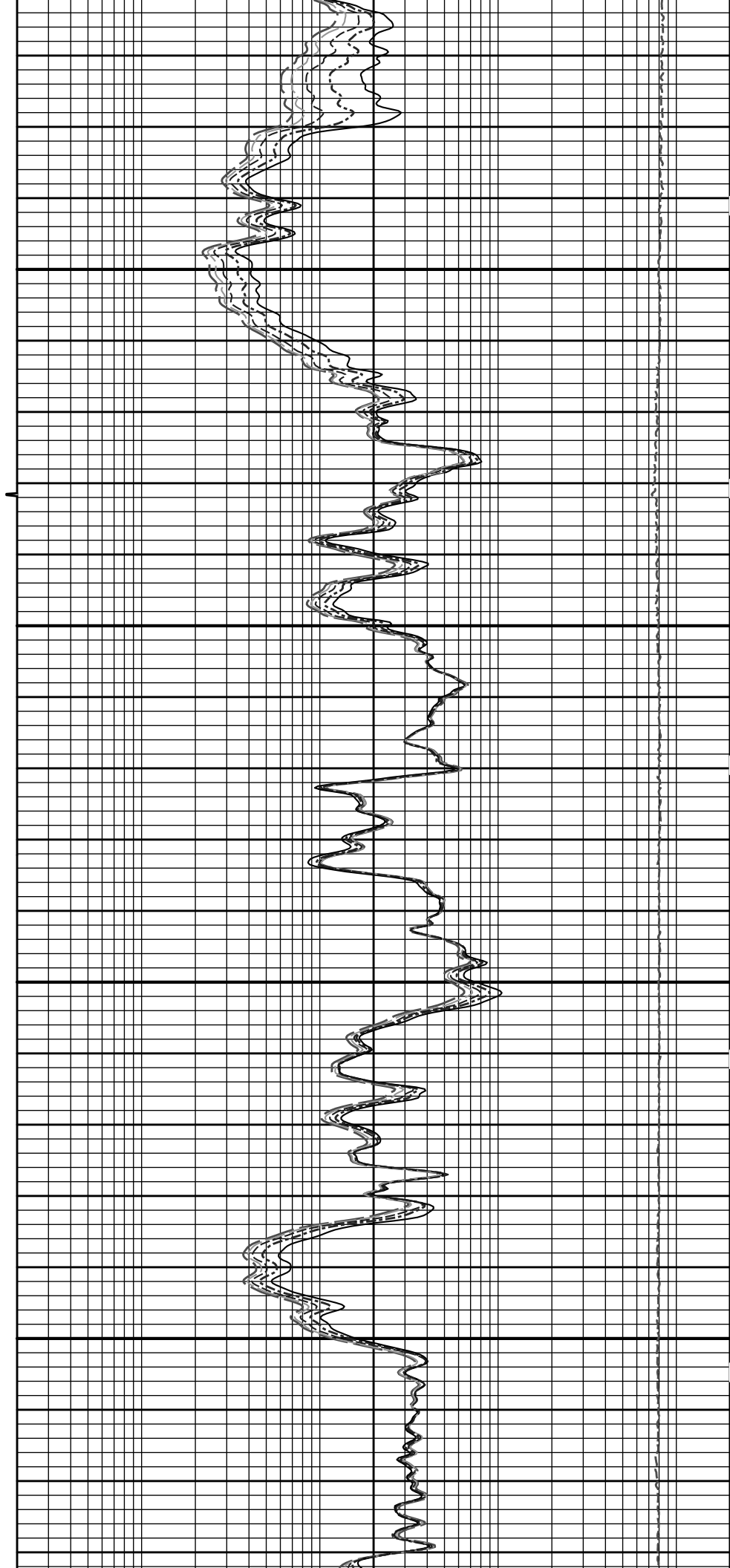
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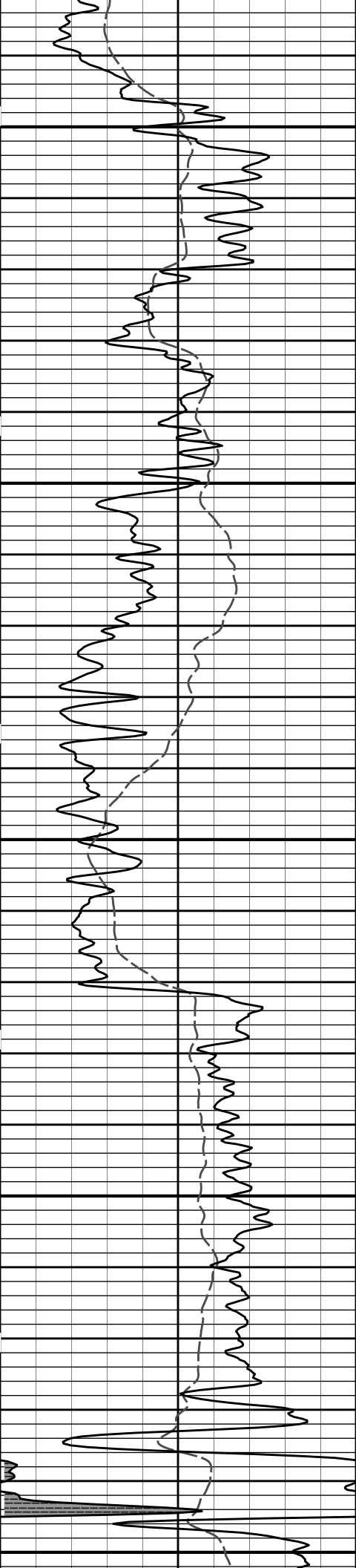




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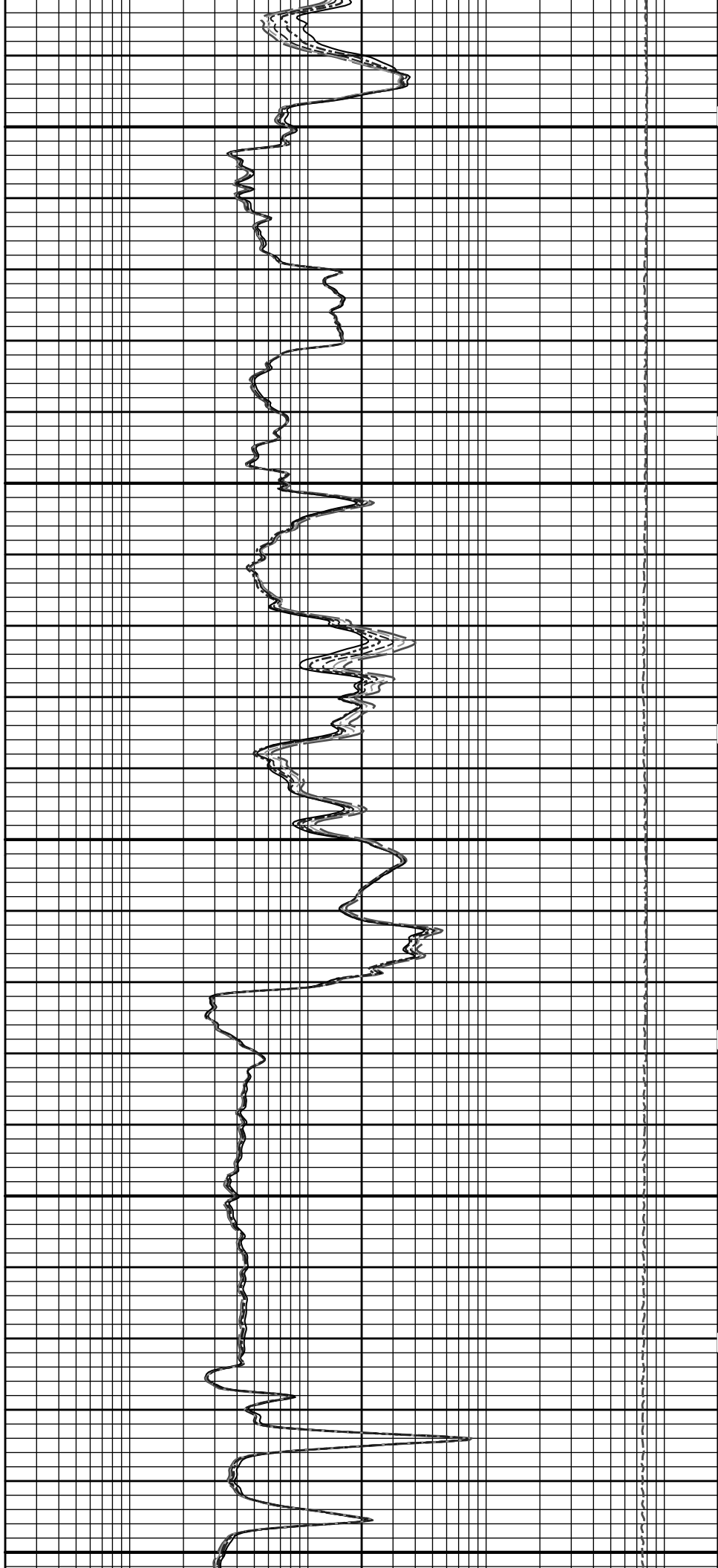
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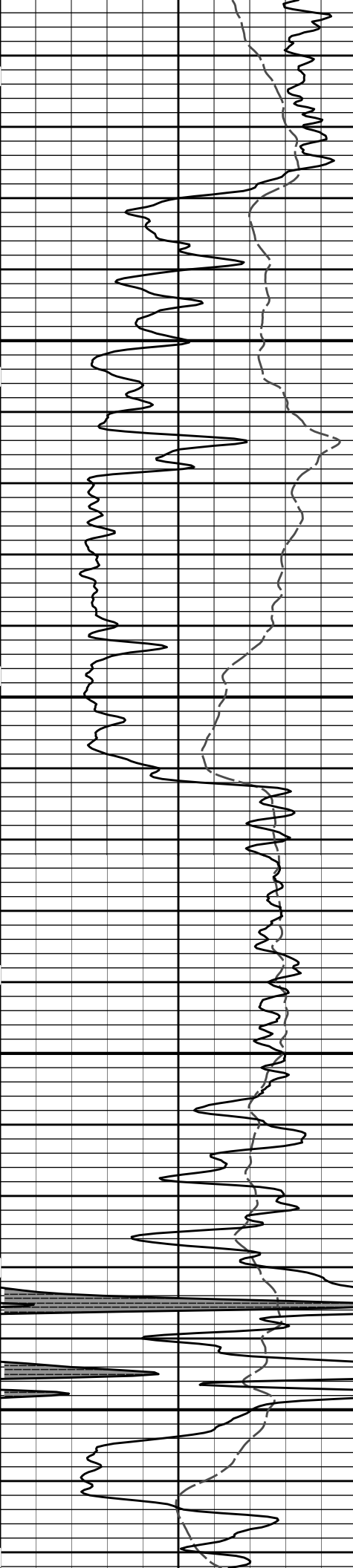




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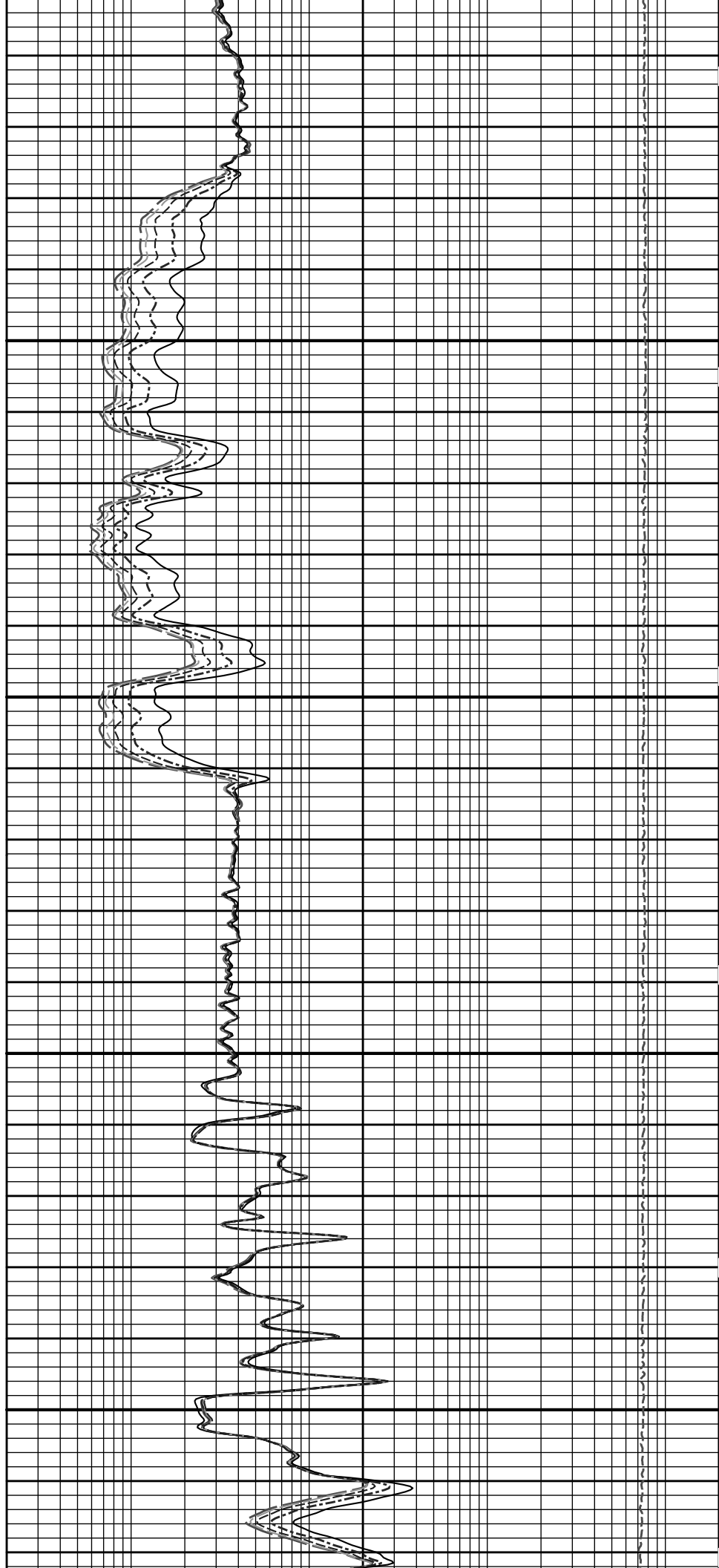
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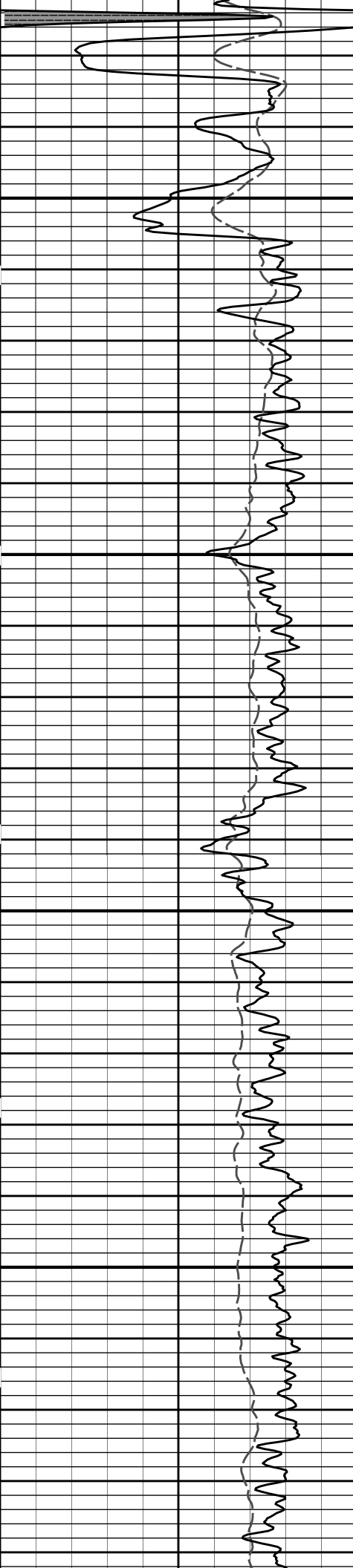




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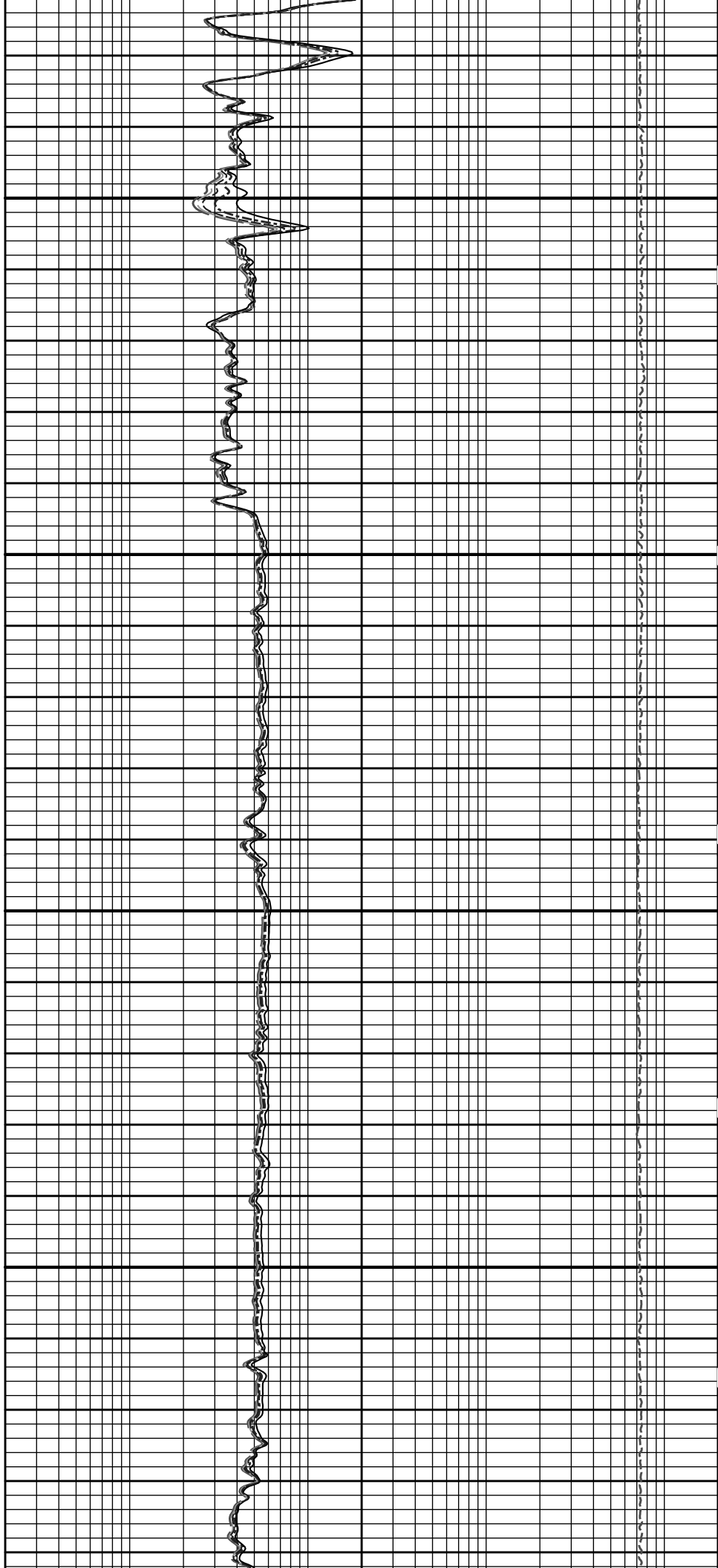
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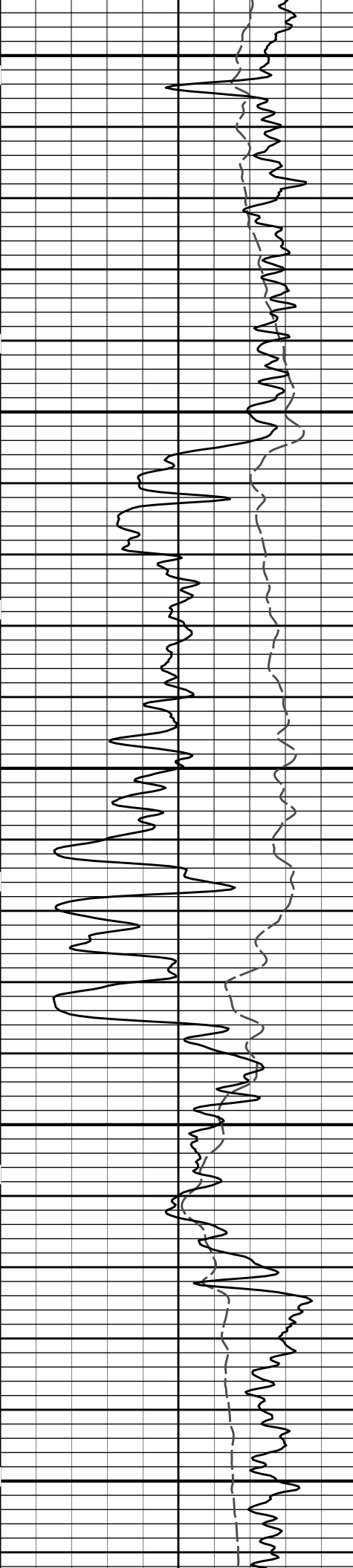




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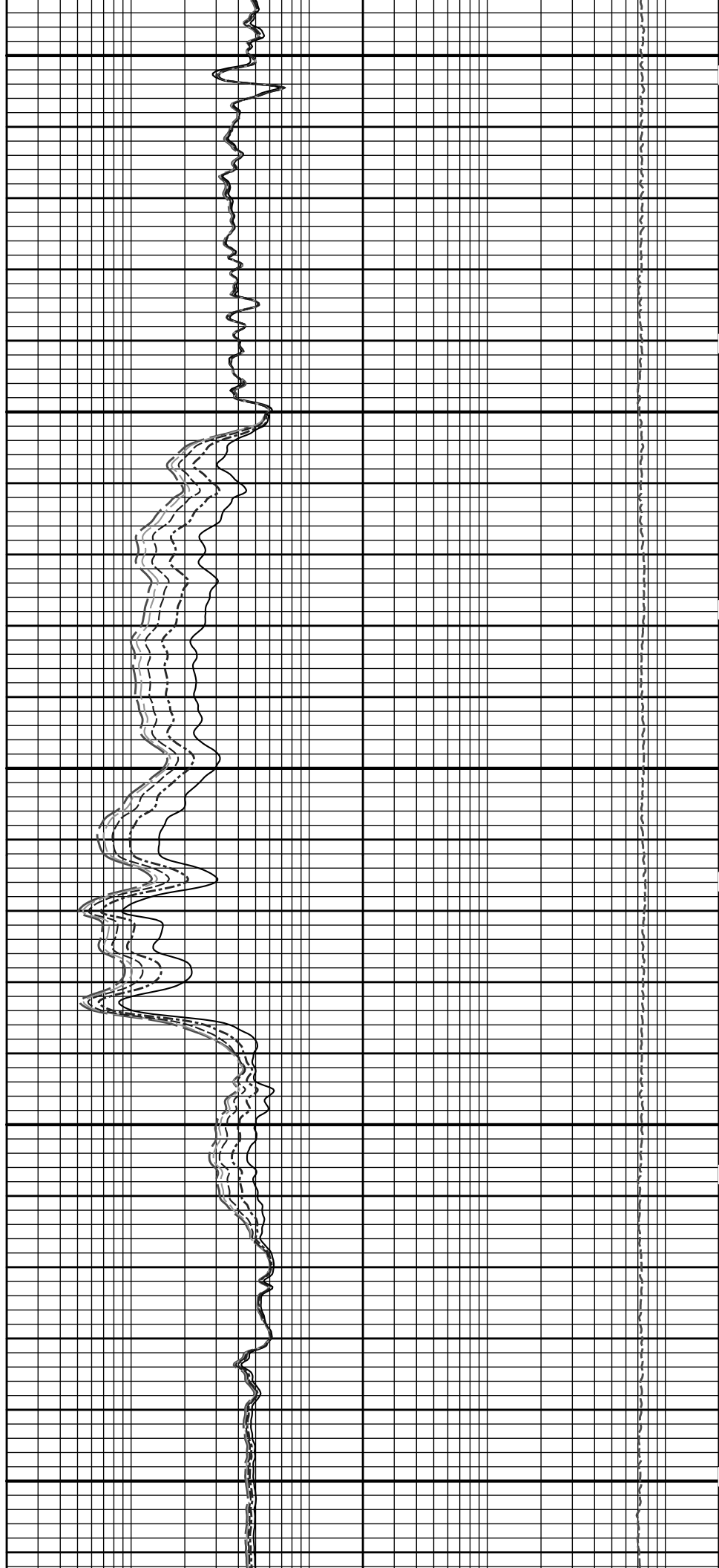


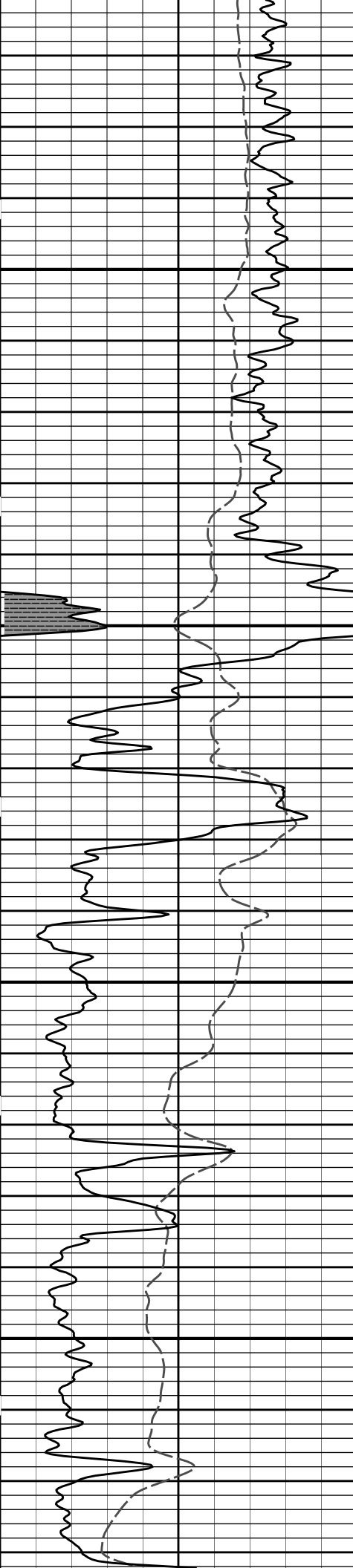


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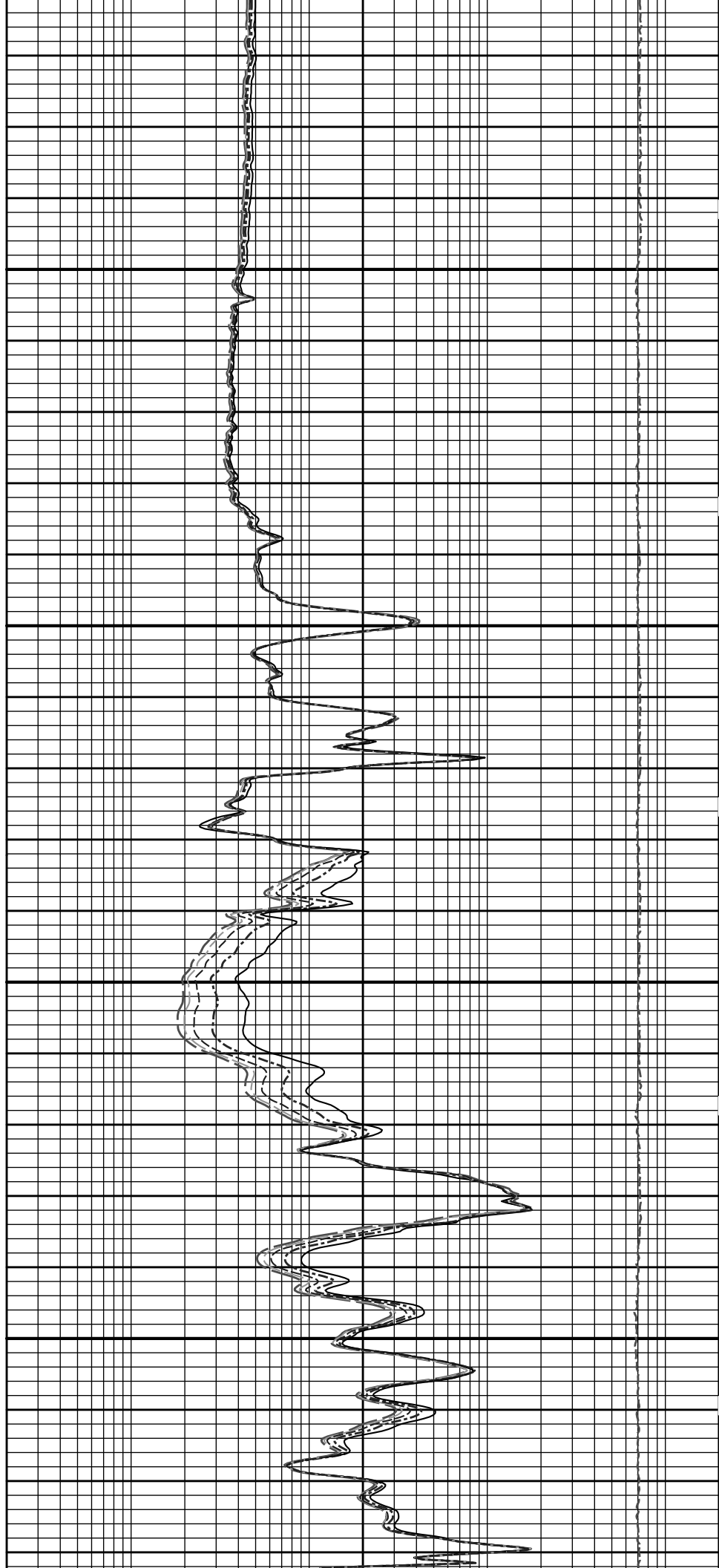
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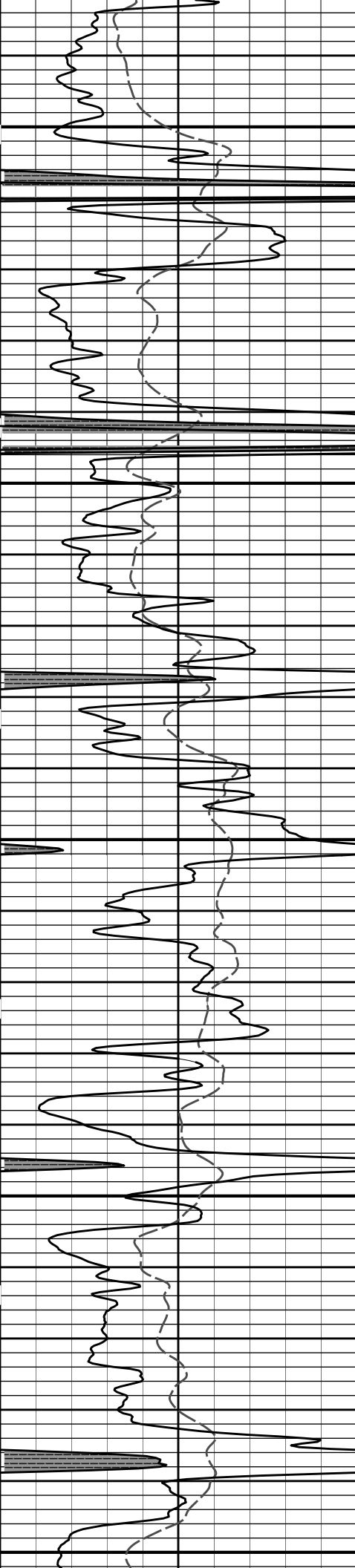




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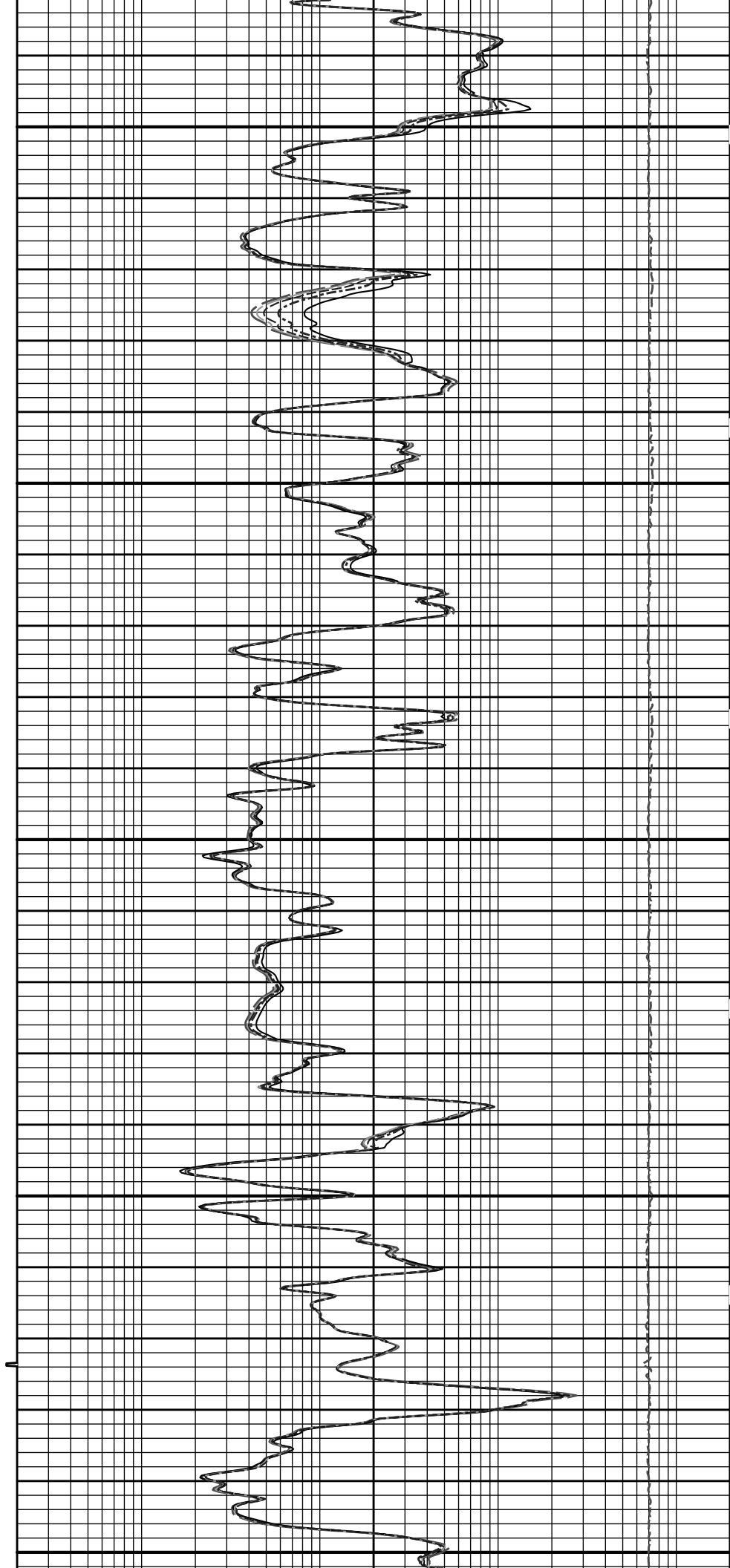
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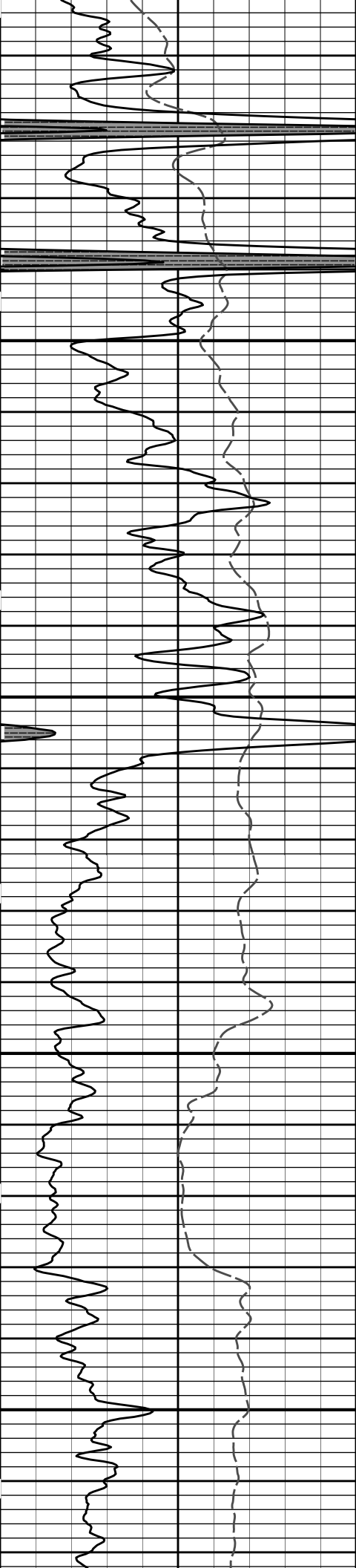




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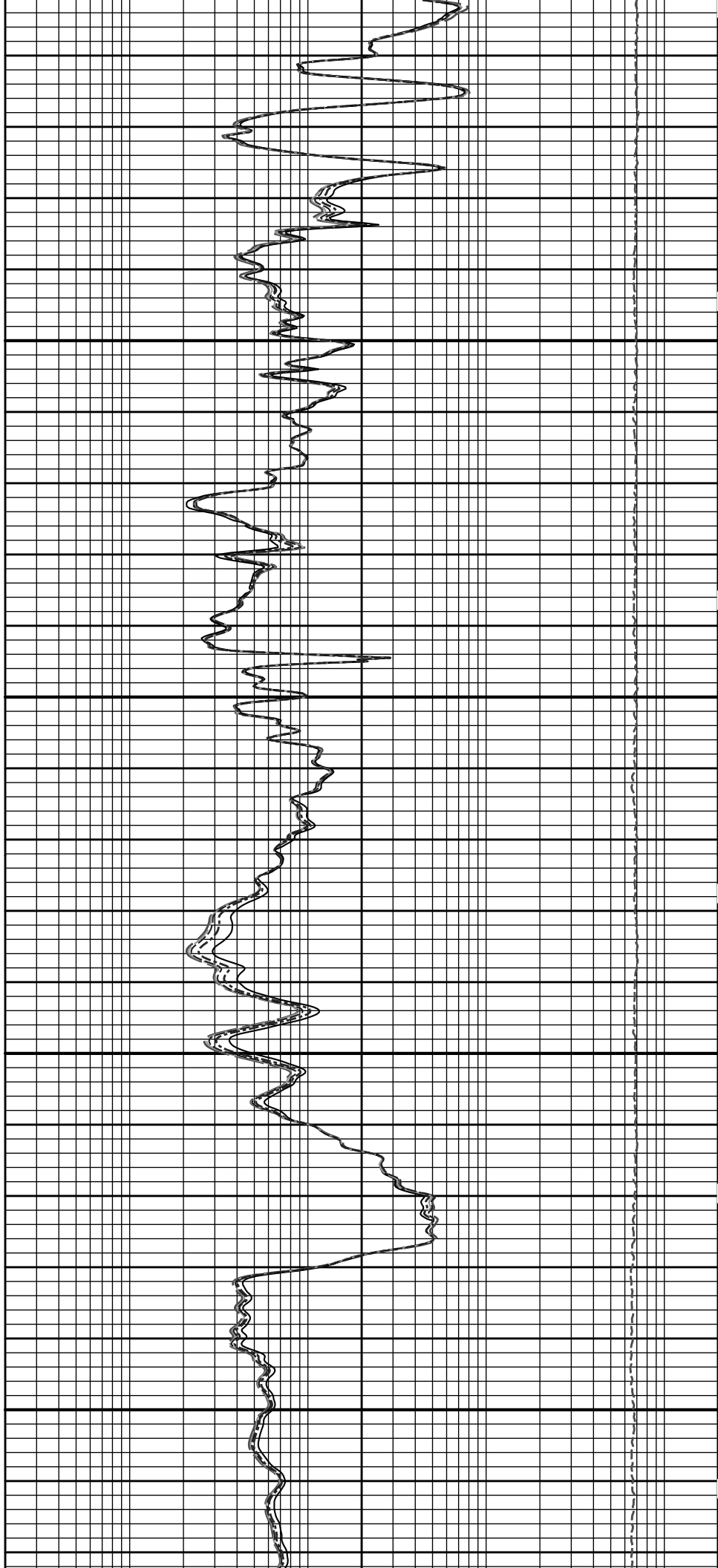
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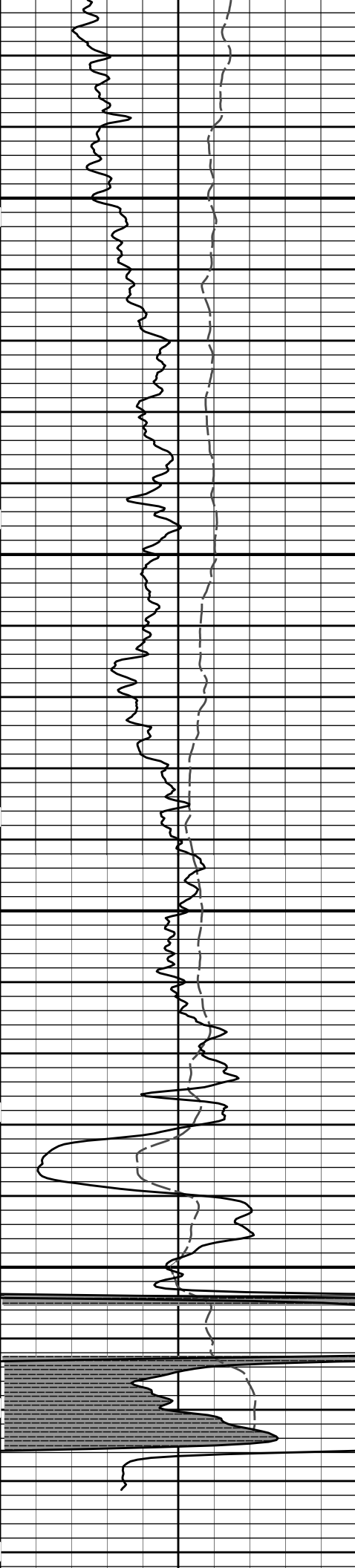




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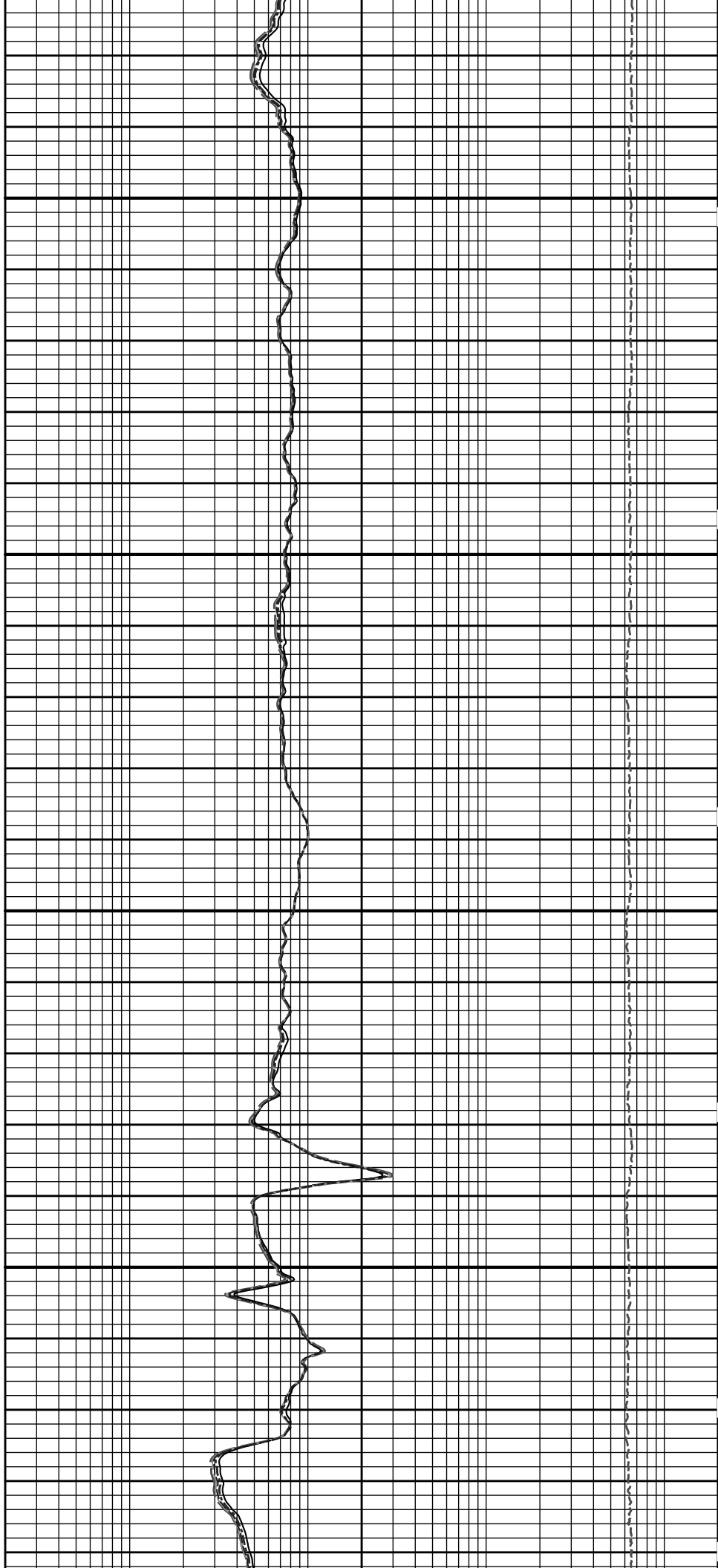
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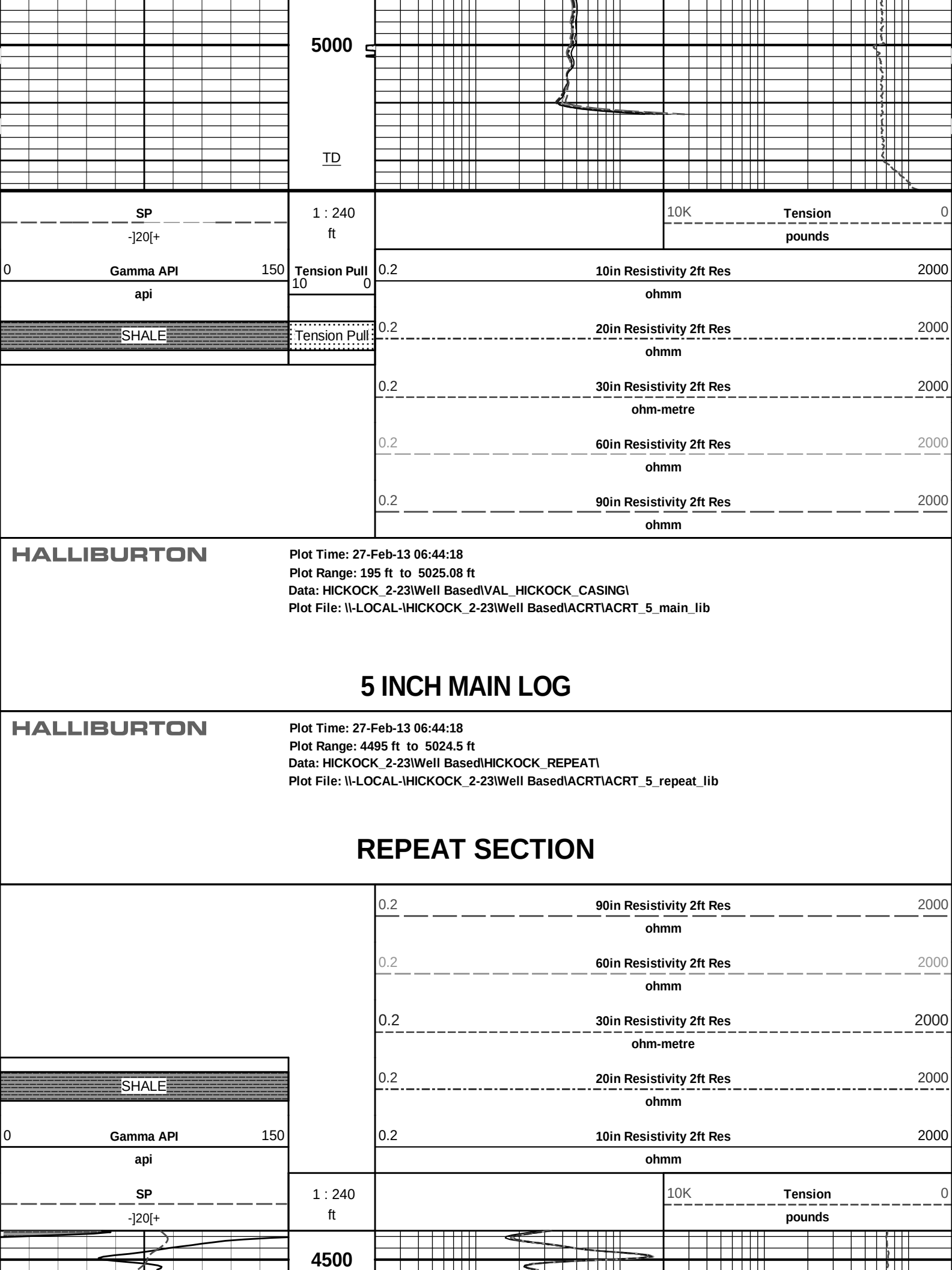


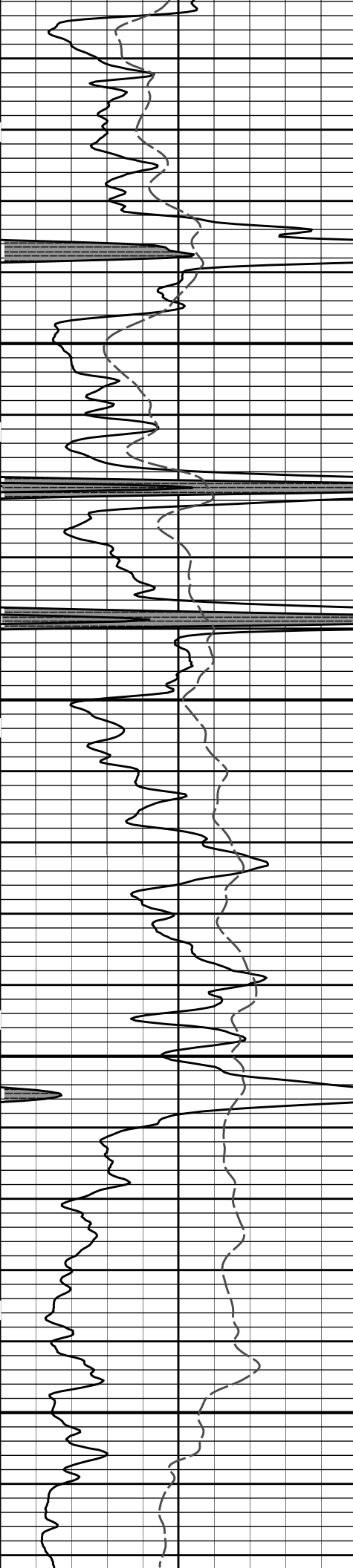


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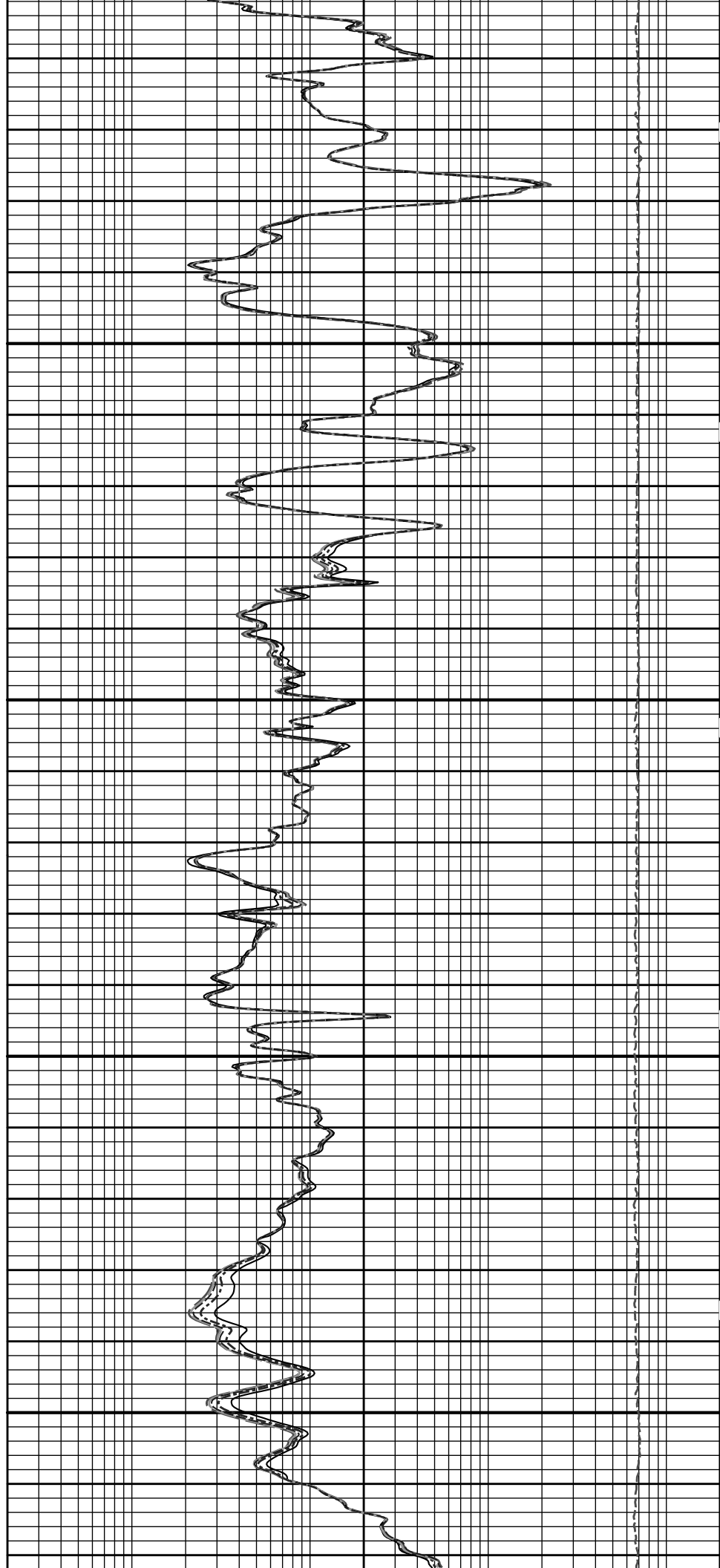


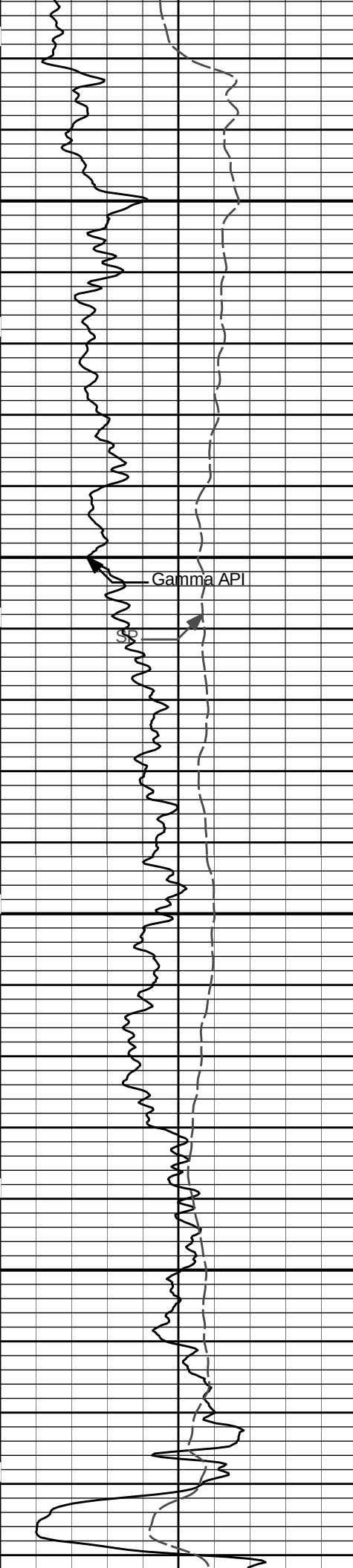




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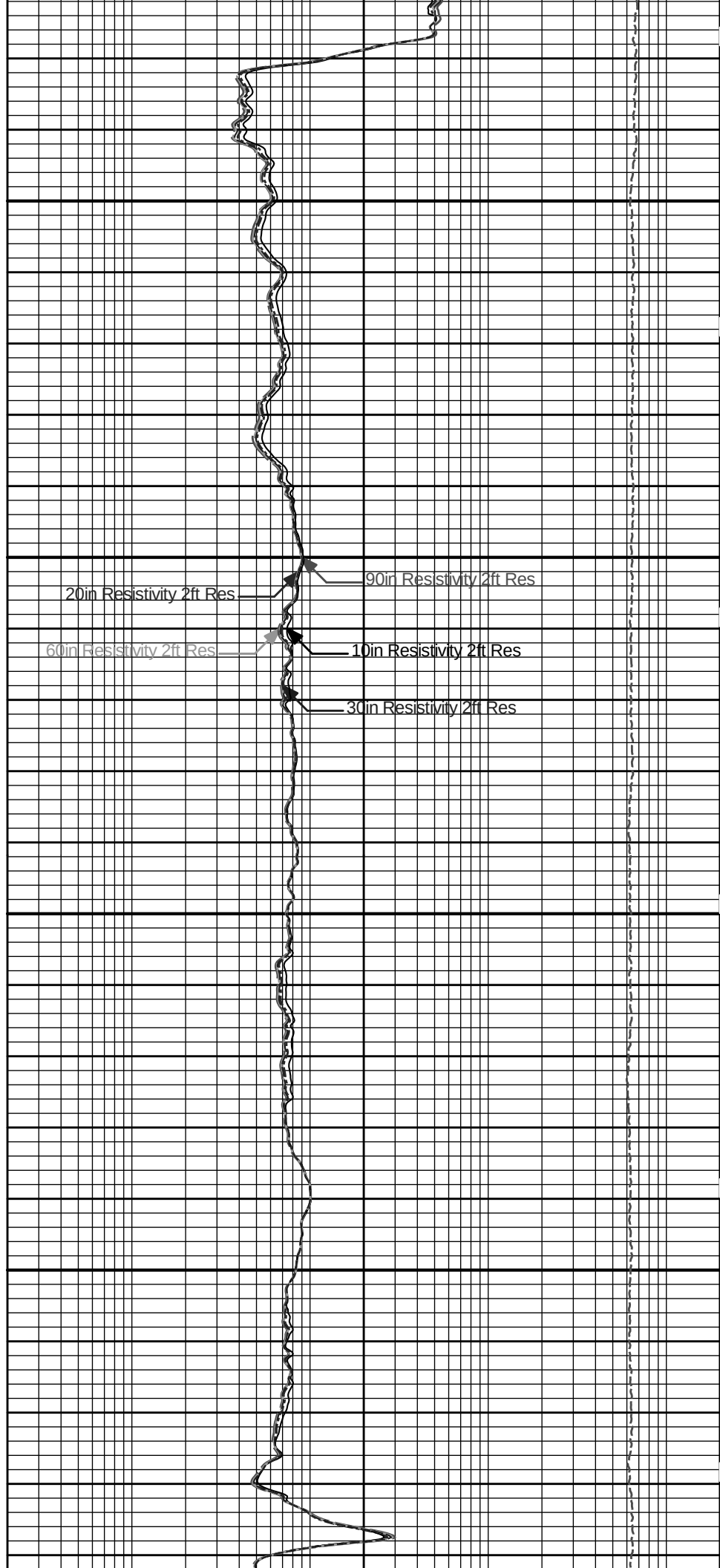
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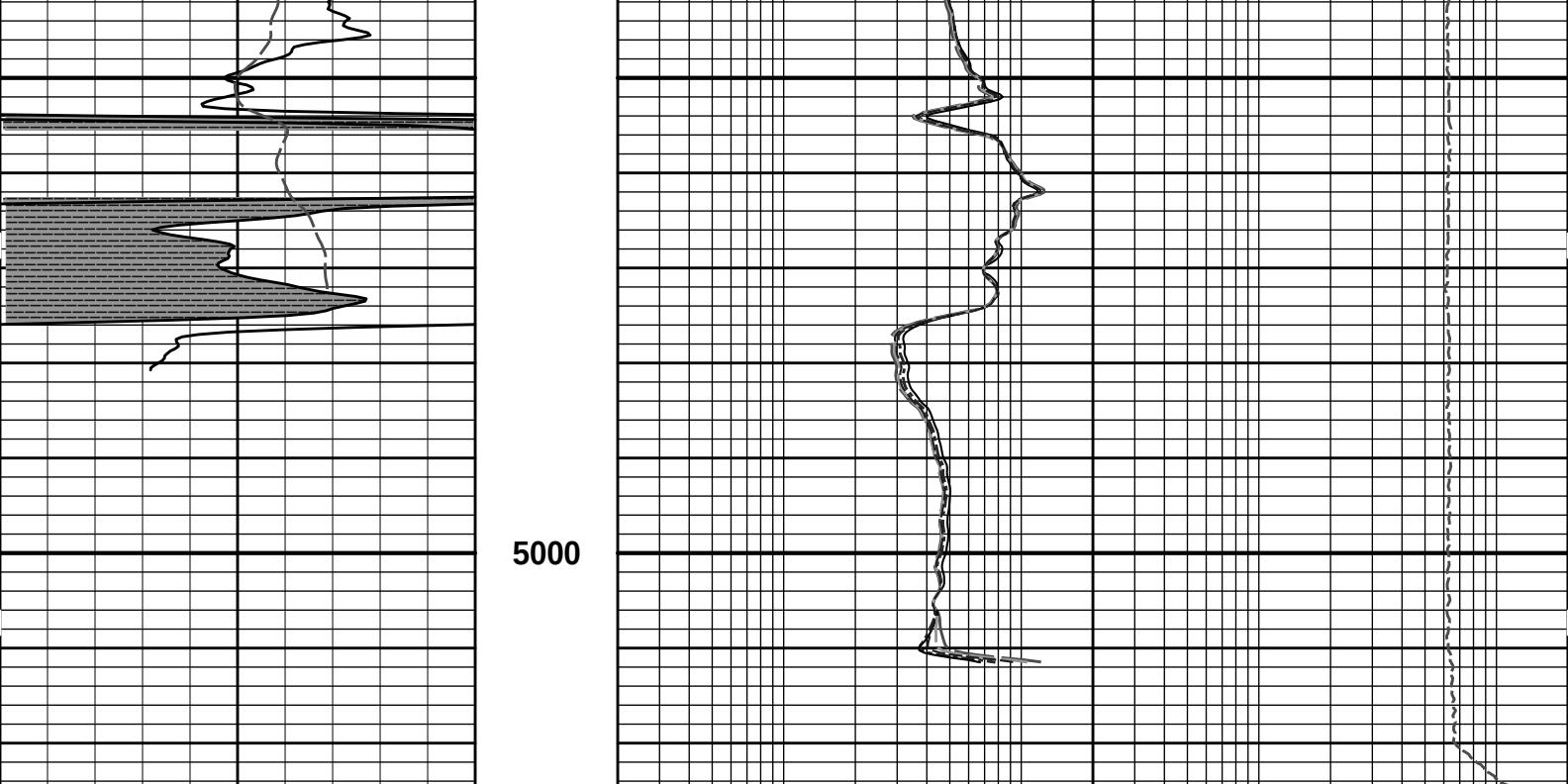




4800

4900





5000

SP -]20[+	1 : 240 ft	10K	Tension pounds	0
0 Gamma API 150		0.2	10in Resistivity 2ft Res	2000
api			ohmm	
SHALE		0.2	20in Resistivity 2ft Res	2000
			ohmm	
		0.2	30in Resistivity 2ft Res	2000
			ohm-metre	
		0.2	60in Resistivity 2ft Res	2000
			ohmm	
		0.2	90in Resistivity 2ft Res	2000
			ohmm	

HALLIBURTON

Plot Time: 27-Feb-13 06:44:22
Plot Range: 4495 ft to 5024.5 ft
Data: HICKOCK_2-23\Well Based\HICKOCK_REPEAT\
Plot File: \\-LOCAL-HICKOCK_2-23\Well Based\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	54.51 ft
SP Sub-11441709 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft

GTET-10811258
165.00 lbs

Ø 3.625 in →

8.52 ft

48.85 ft

← GammaRay @ 42.79 ft

DSNT-10735145
174.00 lbs

DSN Decentralizer-
10755066
6.60 lbs

Ø 5.000 in* →

Ø 3.625 in →

9.69 ft

40.33 ft

← DSN Far @ 33.39 ft

← DSN Near @ 32.64 ft

SDLT-10673803
360.00 lbs

SDLT Pad-10673790
65.00 lbs
Microlog Pad-10673803
8.00 lbs

Ø 4.500 in →

Ø 4.750 in* →

Ø 4.750 in* →

10.81 ft

30.64 ft

Microlog @ 22.83 ft
SDL Caliper @ 22.65 ft
SDL @ 22.64 ft

ACRt Instrument-
I256
50.00 lbs

Regal Standoff 6_75-01
20.00 lbs

Ø 3.625 in
Ø 6.750 in* →

5.03 ft

19.83 ft

← Mud Resistivity @ 13.44 ft

ACRt Sonde-
10800784
200.00 lbs

Ø 3.625 in →

14.22 ft

14.80 ft

← ACRt @ 9.46 ft

Cabbage Head-
TRK954
10.00 lbs

Ø 3.625 in
Ø 6.000 in →

0.58 ft

0.58 ft

0.00 ft

Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head		PROT01	30.00	1.92	52.59	300.00

SP	SP Sub	11441709	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13 *	33.97	300.00
SDLT	Spectral Density Tool	10673803	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55 *	22.04	60.00
MICP	Microlog Pad	10673803	8.00	1.00 *	22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I256	50.00	5.03	14.80	300.00
RSOF	Regal Standoff 6.75in	01	20.00	0.52 *	17.02	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10800784	200.00	14.22	0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58	0.00	300.00
Total			1,148.60	54.51		
* Not included in Total Length and Length Accumulation.						
Data: HICKOCK_2-23\0001 SP-GTET-DSNT-SDLT-ACRT-CHIDLE						
Date: 27-Feb-13 02:52:44						

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.400	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5025.00	ft
	SHARED	BHT	Bottom Hole Temperature	130.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	CECK	Run Gamma Ray Check	No	

GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
BOTTOM				
Data: HICKOCK_2-23\0001 SP-GTET-DSNT-SDLT-ACRT-CH\005 27-Feb-13 04:20 Up @5025.3f			Date: 27-Feb-13 05:39:59	

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 10811258	Reference Calibration Date:	03-Feb-13 11:19:35	
Engineer:	S. INGERSOLL	Calibration Date:	25-Feb-13 11:26:12	
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1	
Calibrator Source S/N: TB-185				
Calibrator API Reference:228.00 api				
Equivalent Calibrator API Reference:232.0 api				
	Measurement	Measured	Calibrated	Units
	Background	48.8	49.5	api
	Background + Calibrator	277.1	281.5	api
	Calibrator	228.3	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 10811258	Reference Calibration Date:	25-Feb-13 11:26:12
Engineer:	S. INGERSOLL	Calibration Date:	26-Feb-13 21:32:48
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1

Field Verification	Shop	Field	Units
Background	49.5	70.8	api
Background + Calibrator	281.5	306.0	api
Calibrator	232.0	235.2	api

Shop	Field	Difference	Tolerance
232.0	235.2	-3.2	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 10800784	Reference Calibration Date:	19-Dec-12 10:46:30
Engineer:	S. INGERSOLL	Calibration Date:	31-Jan-13 13:16:46
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - I256		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A3 (29")	0.95	1.00	1.05	0.95	1.00	1.05	0.95	0.99	1.05
A4 (17")	0.95	1.01	1.05	0.95	1.00	1.05	0.95	1.00	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	1.00	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.98	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.48	2	-6	-3.81	-2	-8	-5.03	-2
A2 (50")	-7	-1.84	0	-7	-3.60	0	-7	-4.44	0
A3 (29")	-27	-16.02	-9	-9	-4.53	-3	-7	-3.39	-1
A4 (17")	-180	-97.22	-60	-45	-32.50	-15	-39	-26.65	-13
A5 (10")	N/A	N/A	N/A	-150	-96.36	-50	-80	-48.19	-10
A6 (6")	N/A	N/A	N/A	175	293.43	525	90	156.07	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.85	1.3
36K	1.0	1.18	2.0
72K	1.0	1.51	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

PASS/FAIL SUMMARY

GAIN RANGE CHK	PASS
SONDE OFFSET RANGE CHK	PASS
Tx CURRENT GAIN	PASS
Rmud VERIFICATION	PASS

TOOL OK TO LOG

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	235.2	-----	-3.2	+/- 9.00	api
ACRt Sonde-10800784						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: HICKOCK_2-23\0001 SP-GTET-DSNT-SDLT-ACRT-CH\005 27-Feb-13 04:20 Up @5025.3f						
Date: 27-Feb-13 05:38:34						

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INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000

F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Current Raw 12K X Receiver	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
SDLT Pad				
TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250

NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	

Microlog Pad

TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750

Data: HICKOCK_2-23\0001 SP-GTET-DSNT-SDLT-ACRT-CH\005 27-Feb-13 04:20 Up @5025.3f

Date: 27-Feb-13 05:37:21

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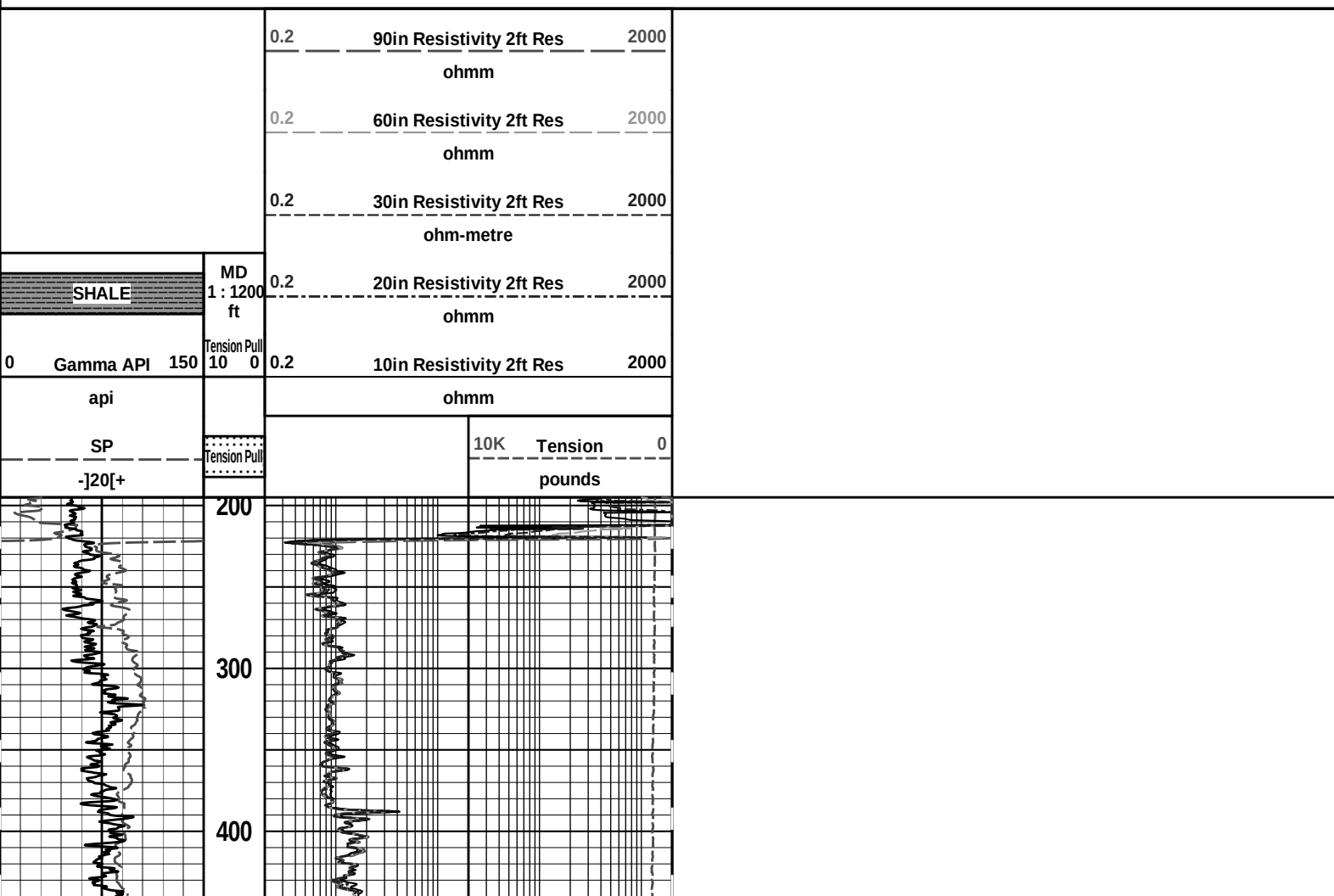
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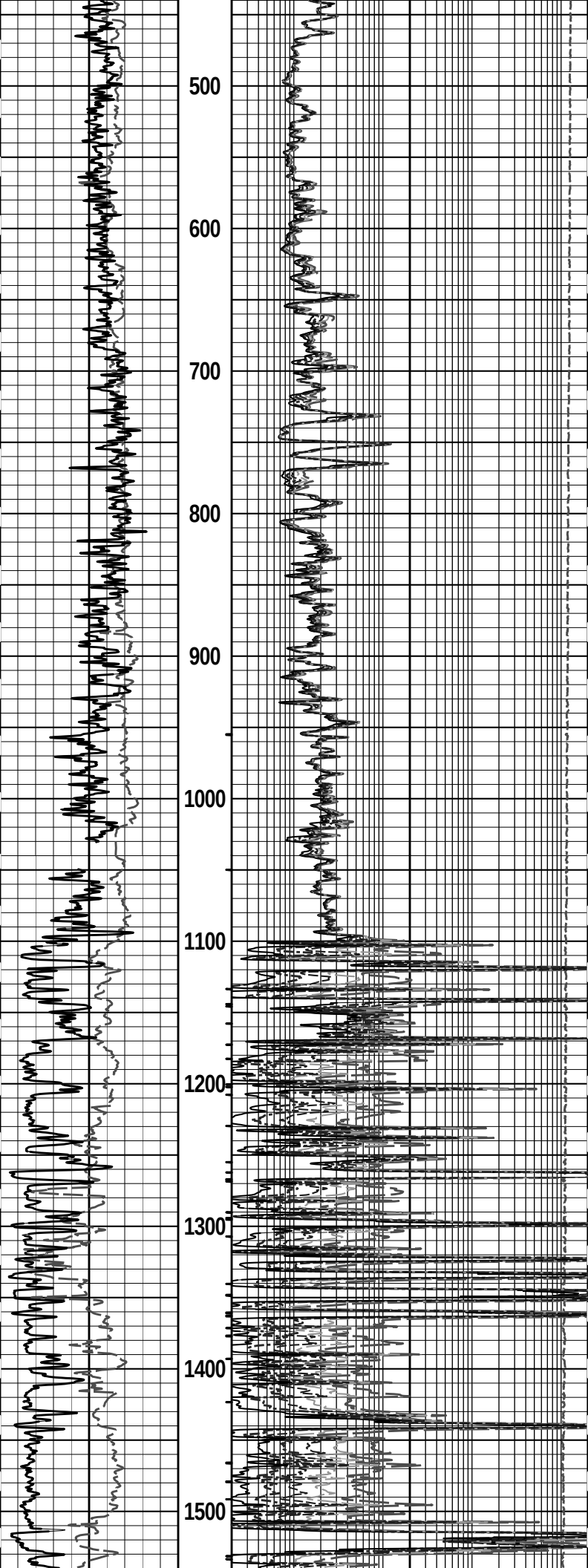
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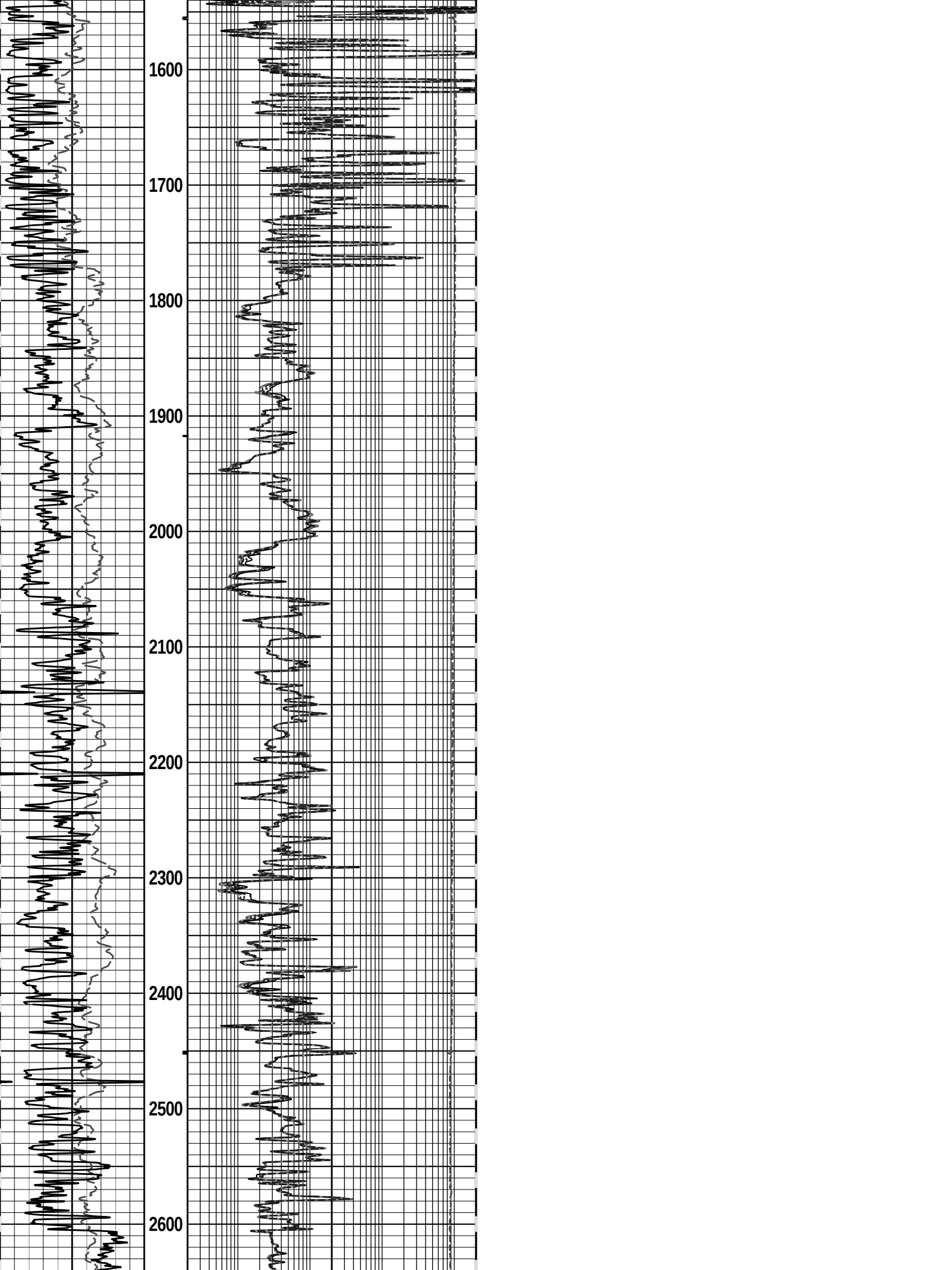
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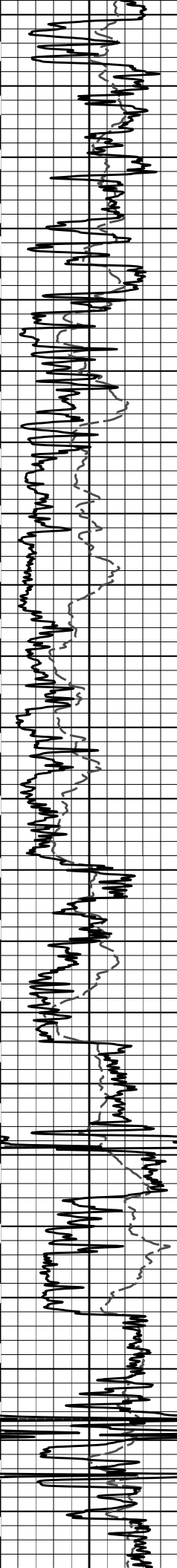
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5 INCH MAIN LOG

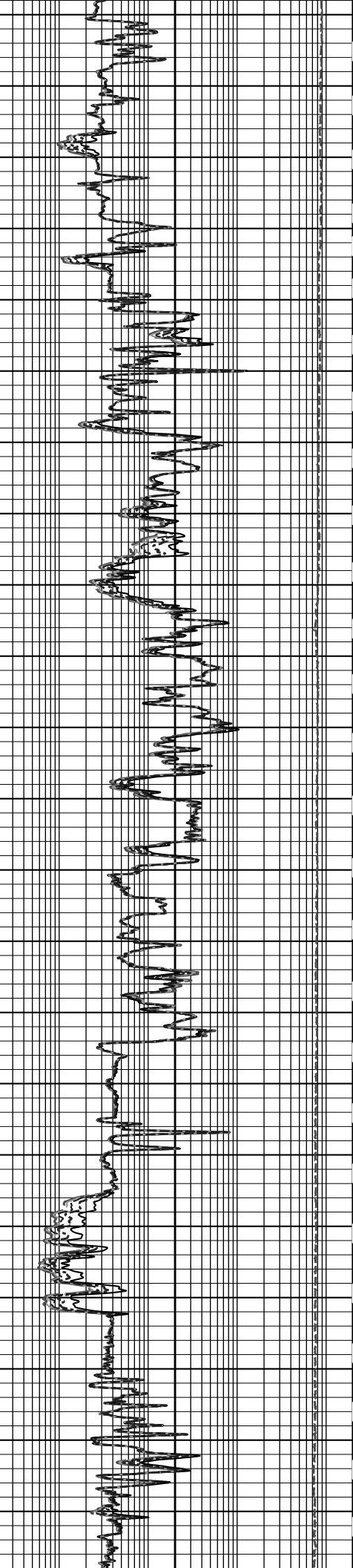


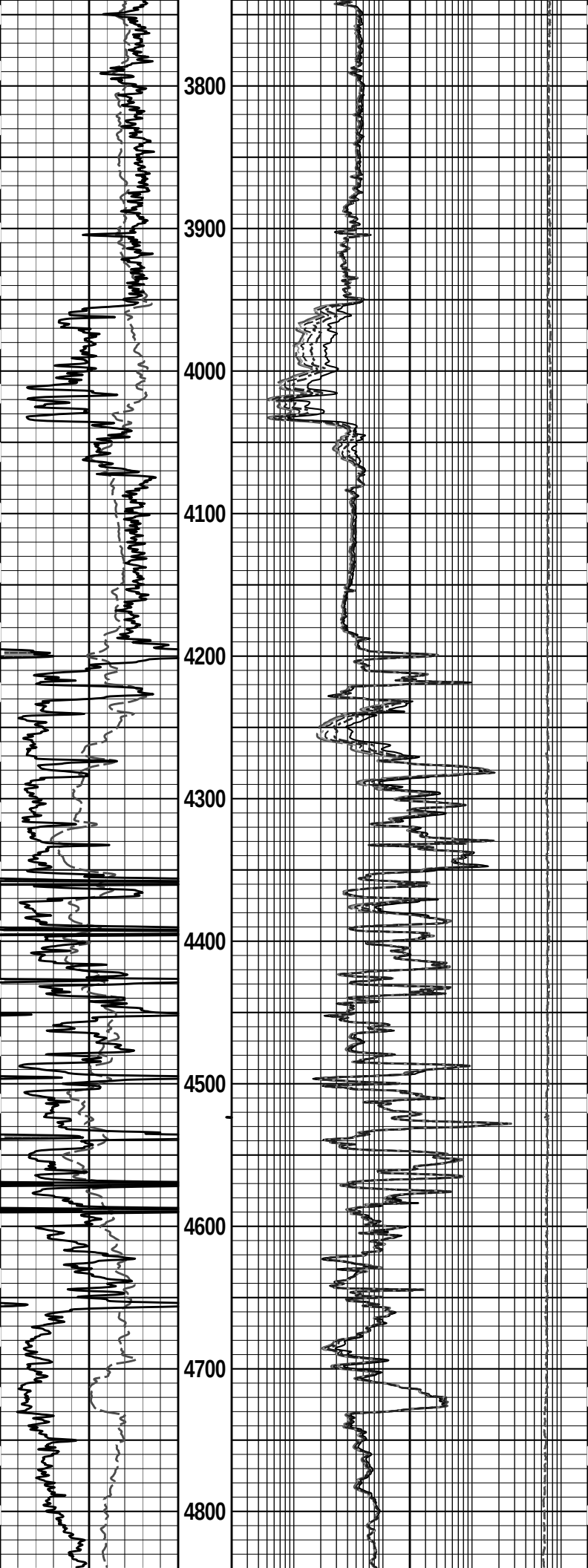


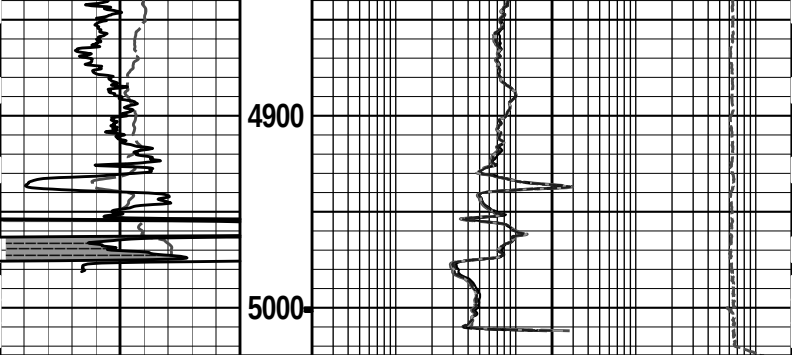




2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700







SP	Tension Pull	10K	Tension	0
-]20[+			pounds	
0	Tension Pull	0.2	10in Resistivity 2ft Res	2000
Gamma API	10 0			
api			ohmm	
SHALE	MD	0.2	20in Resistivity 2ft Res	2000
	1 : 1200		ohmm	
	ft			
		0.2	30in Resistivity 2ft Res	2000
			ohm-metre	
		0.2	60in Resistivity 2ft Res	2000
			ohmm	
		0.2	90in Resistivity 2ft Res	2000
			ohmm	

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Plot Time: 27-Feb-13 06:44:28
Plot Range: 195 ft to 5025.08 ft
Data: HICKOCK_2-23\Well Based\VAL_HICKOCK_CASING\
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5 INCH MAIN LOG

COMPANY	VAL ENERGY		
WELL	HICKOCK 2-23		
FIELD	UNKNOWN		
COUNTY	BARBER	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	