

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY		EVANS ENERGY LLC.	
WELL		ANGELL #4-6	
FIELD		ANGELL	
COUNTY		MEADE	
STATE		KANSAS	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date	18-Nov-12		
Run No.	ONE		
Depth - Driller	6200.00 ft		
Depth - Logger	6197.0 ft		
Bottom - Logged Interval	6187		
Top - Logged Interval	1619		
Casing - Driller	8.625 in @ 1620.0 ft		
Casing - Logger	1619.0 ft		
Bit Size	7.875 in		
Type Fluid in Hole	WATER BASED MUD		
Density	9.2 ppq	58.00	s/qt
PH	9.50 pH	10.4	cp/m
Source of Sample	MUD PIT		
Rm @ Meas. Temperature	1.300 ohmm @ 80.00 degF		
Rmf @ Meas. Temperature	1.00 ohmm @ 72.00 degF		
Rmc @ Meas. Temperature	1.700 ohmm @ 72.00 degF		
Source Rmf	MEASURED	MEASURED	
Rm @ BHT	0.84 ohmm @ 127.0 degF		
Time Since Circulation	5.0 hr		
Time on Bottom	18-Nov-12 13:05		
Max. Rec. Temperature	127.0 degF @ 6197.0 ft		
Equipment	10546696	LIBERAL	
Recorded By	S. INGERSOLL		
Witnessed By	E. GRIEVES		

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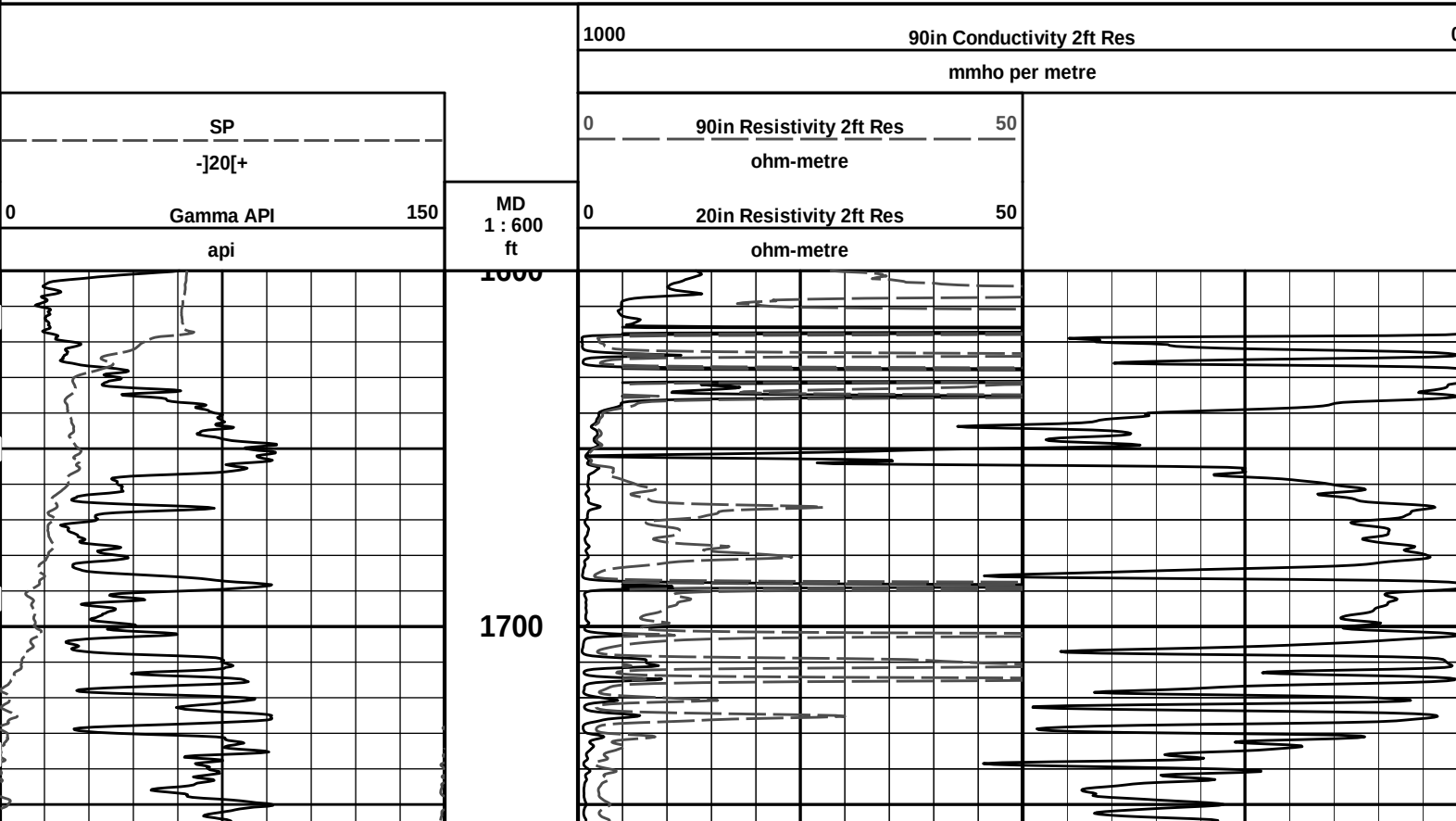
Service Ticket No.: 900009270				API Serial No.: 15-119-21326				PGM Version: WL INSITE R3.6.0 (Build 3)						
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES								
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole					
Depth-Driller														
Type Fluid in Hole														
Density	Viscosity													
Ph	Fluid Loss													
Source of Sample						RESISTIVITY EQUIPMENT DATA								
Rm @ Meas. Temp		@		@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other				
Rmf @ Meas. Temp.		@		@		ONE	ACRT	N/A	1.5" S.O.					
Rmc @ Meas. Temp.		@		@			11005909							
Source Rmf	Rmc													
Rm @ BHT		@		@										
Rmf @ BHT		@		@										
Rmc @ BHT		@		@										
EQUIPMENT DATA														
GAMMA			ACOUSTIC			DENSITY			NEUTRON					
Run No.	ONE		Run No.			Run No.	ONE		Run No.	ONE				
Serial No.	11039640		Serial No.			Serial No.	11014296		Serial No.		11055304			
Model No.	GTET		Model No.			Model No.	SDLT		Model No.		DSNT			
Diameter	3.625"		No. of Cent.			Diameter	4.5"		Diameter		3.625"			
Detector Model No.	GTET		Spacing			Log Type	GAM-GAM		Log Type		NEU-NEU			
Type	SCINT					Source Type	CS-137		Source Type		AM-241BE			
Length	8"		LSA [Y/N]			Serial No.	5168GW		Serial No.		DSN-424			
Distance to Source	NA		FWDA [Y/N]			Strength	1.5 CI		Strength		15 CI			
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		

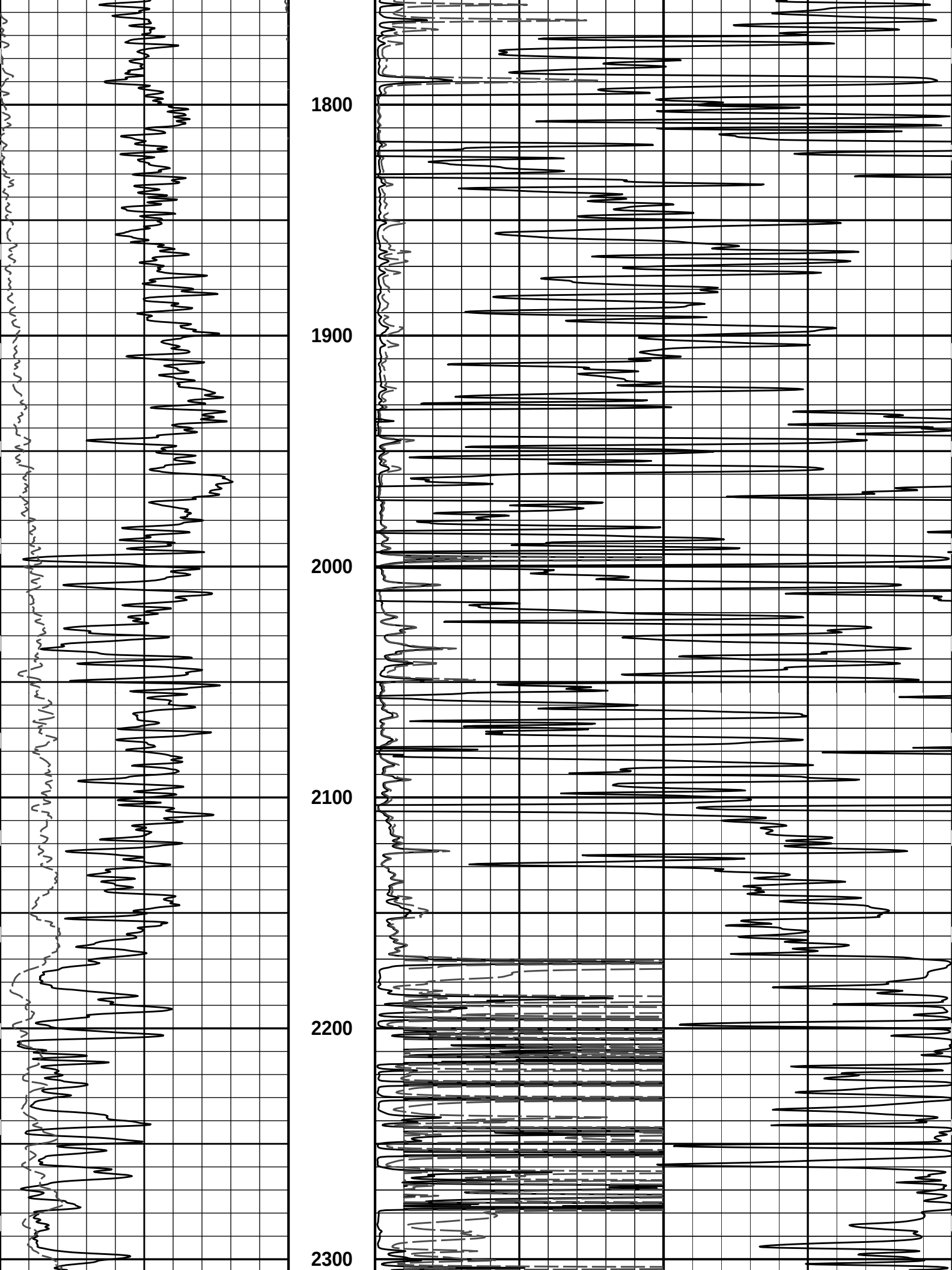
GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON					
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	6197	1619	REC	0	150				30	-10	2.71 gm/cc	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING.														
CHLORIDES REPORTED AT 6300 ppm.														

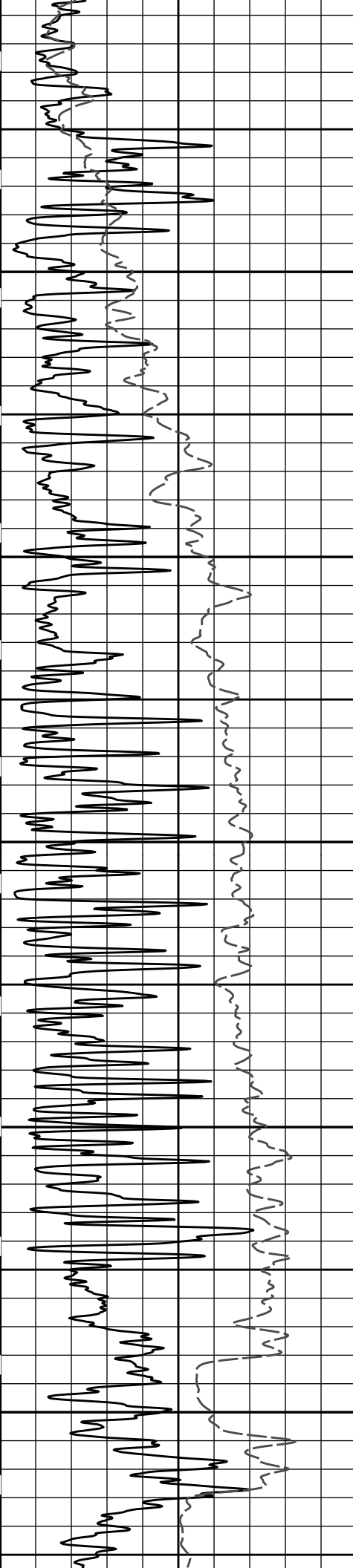
HALLIBURTON

Plot Time: 18-Nov-12 15:45:31
Plot Range: 1600 ft to 6199.5 ft
Data: ANGELL #4-6\Well Based\ACRT\
Plot File: \\LOCAL-1\ANGELL #4-6\Well Based\ACRT\ACRT_2_lib

2 INCH MAIN LOG







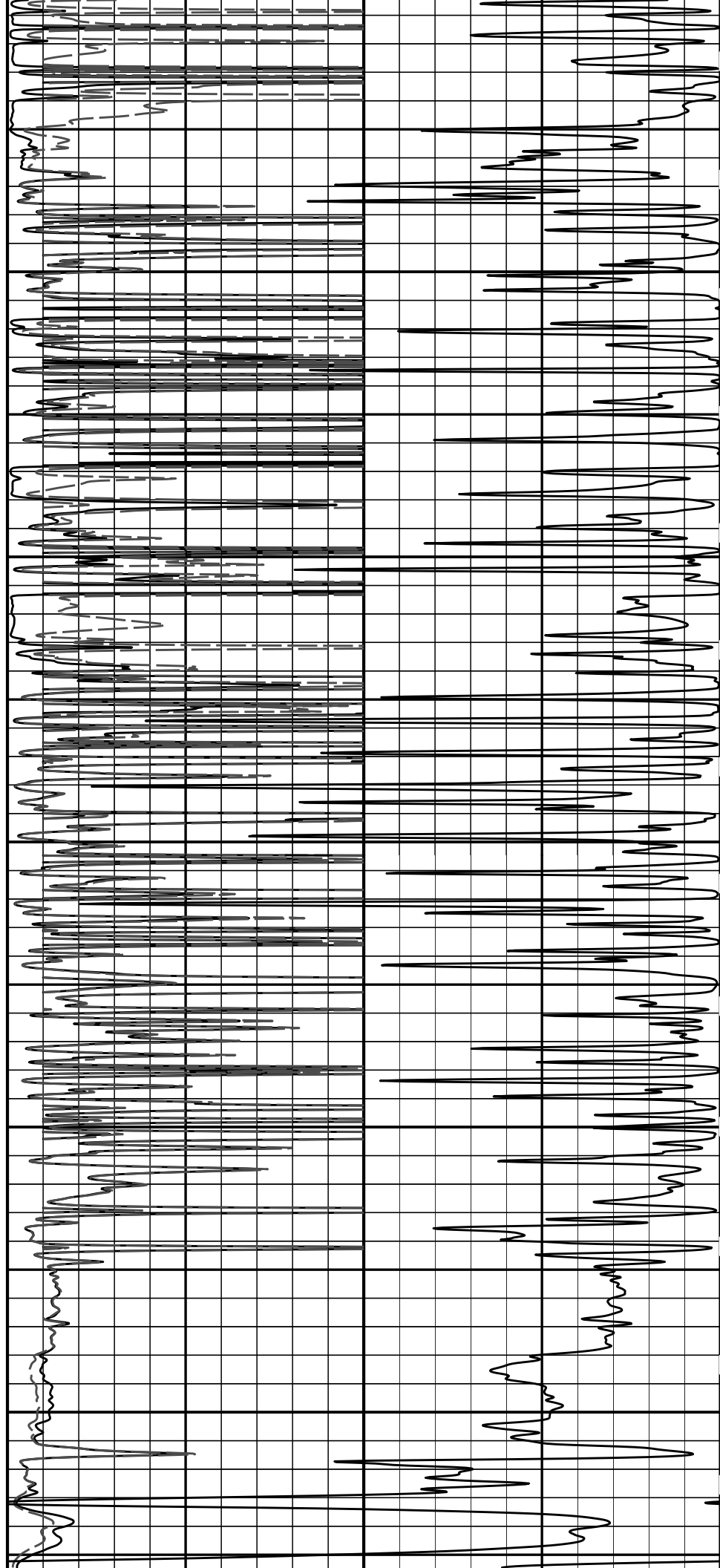
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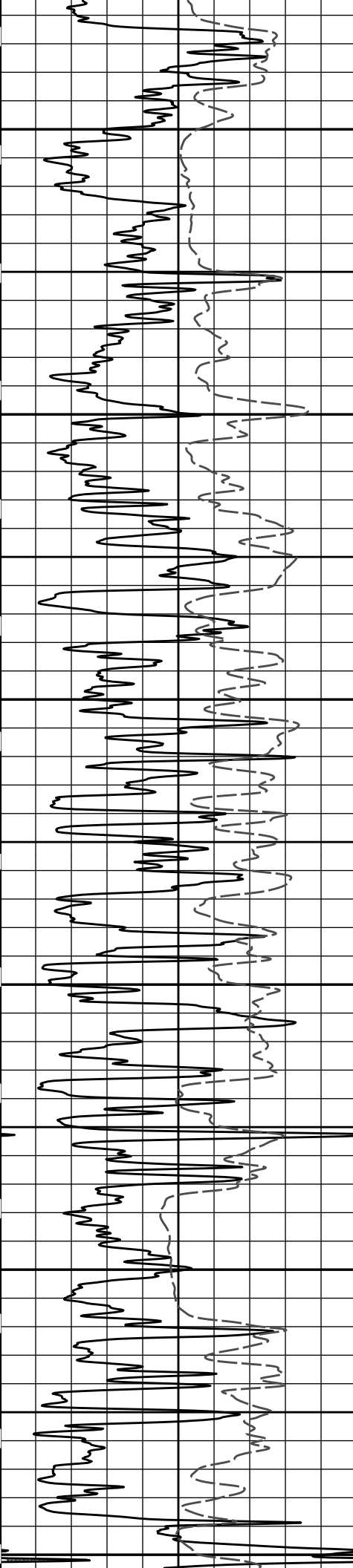
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2600

2700

2800





2900

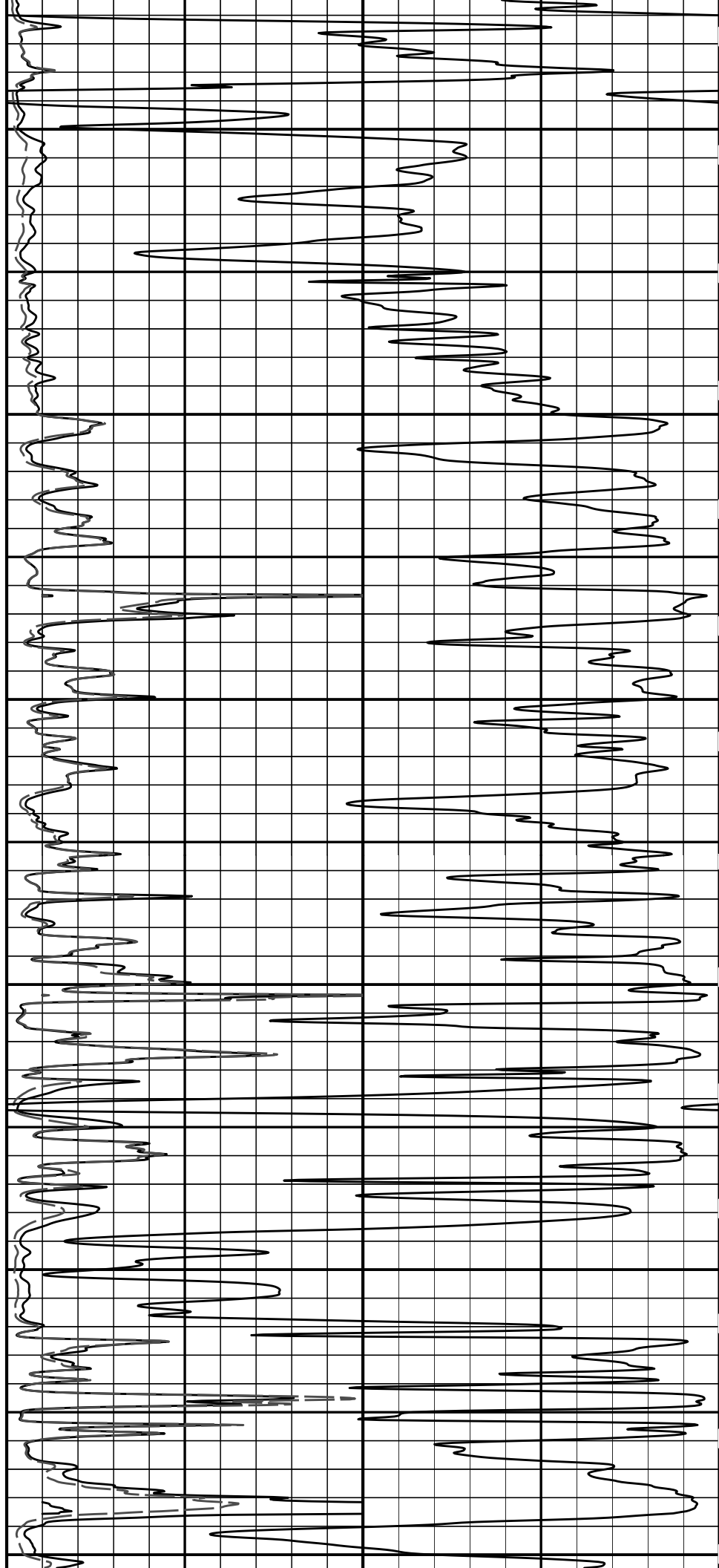
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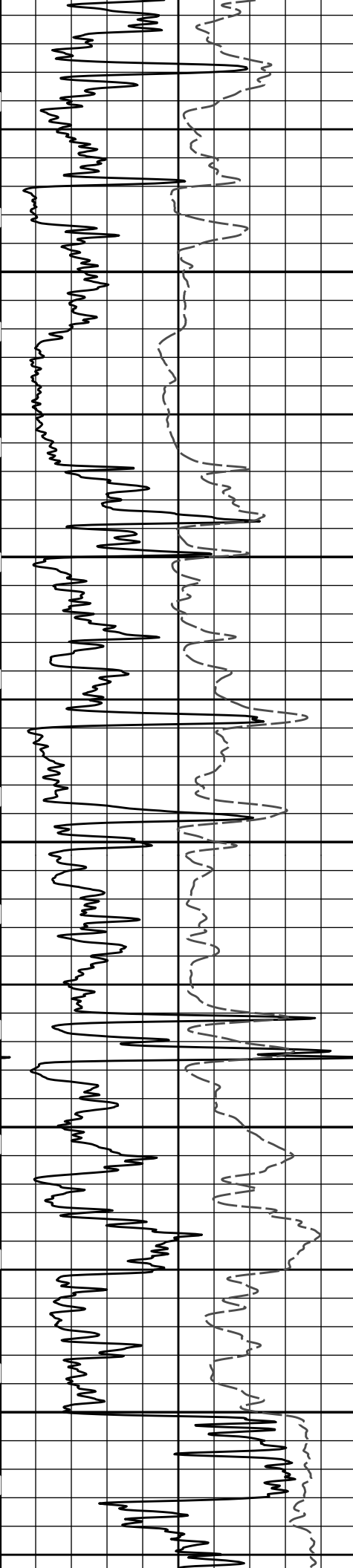
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3200

3300

3400





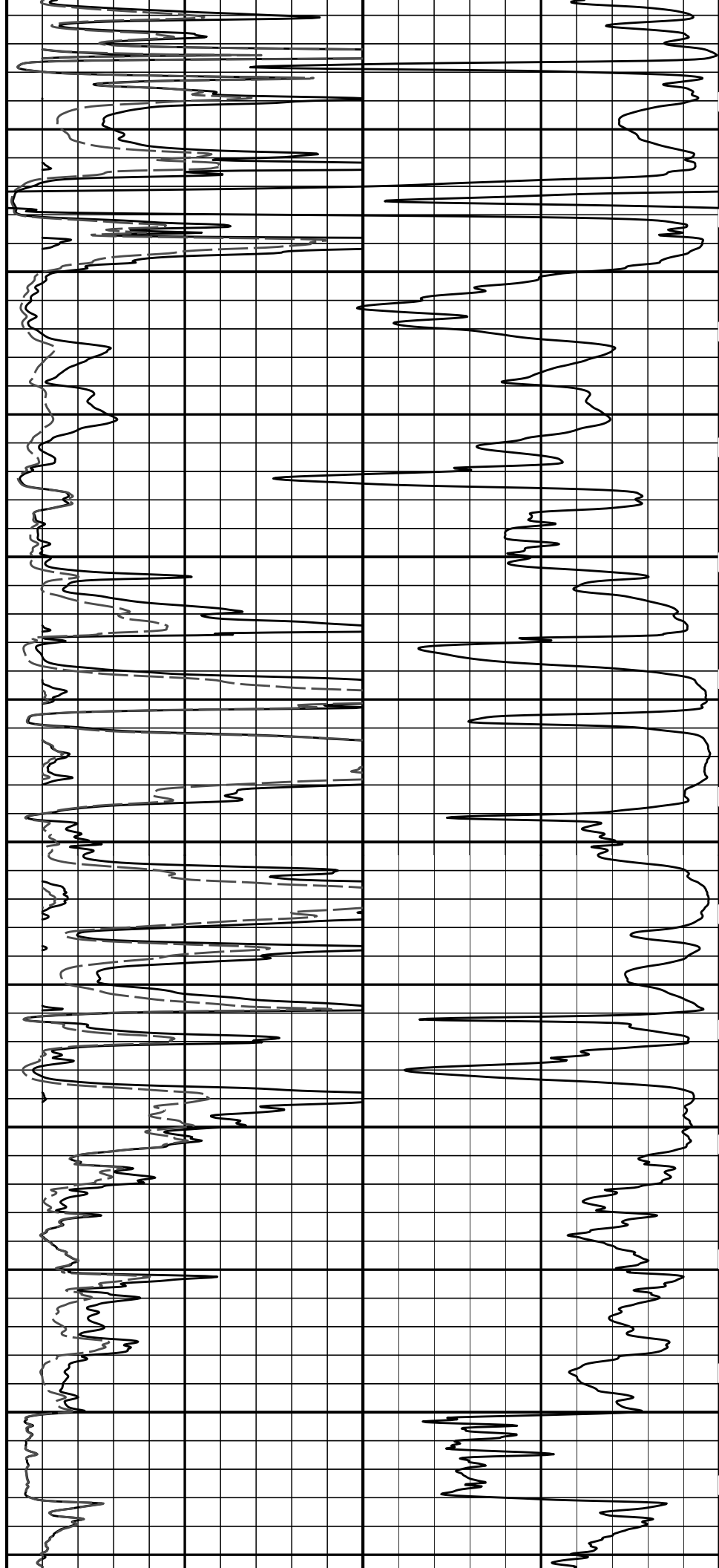
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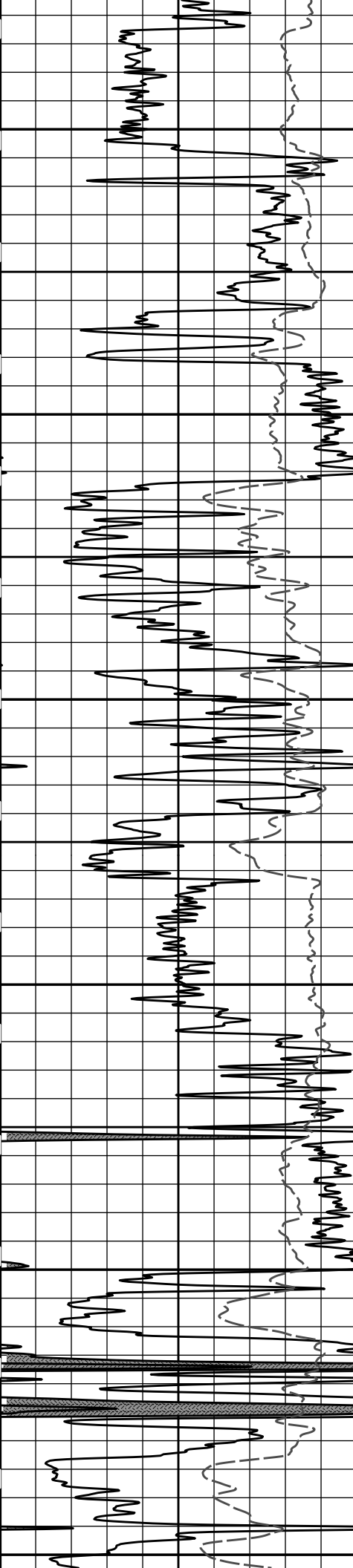
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3900





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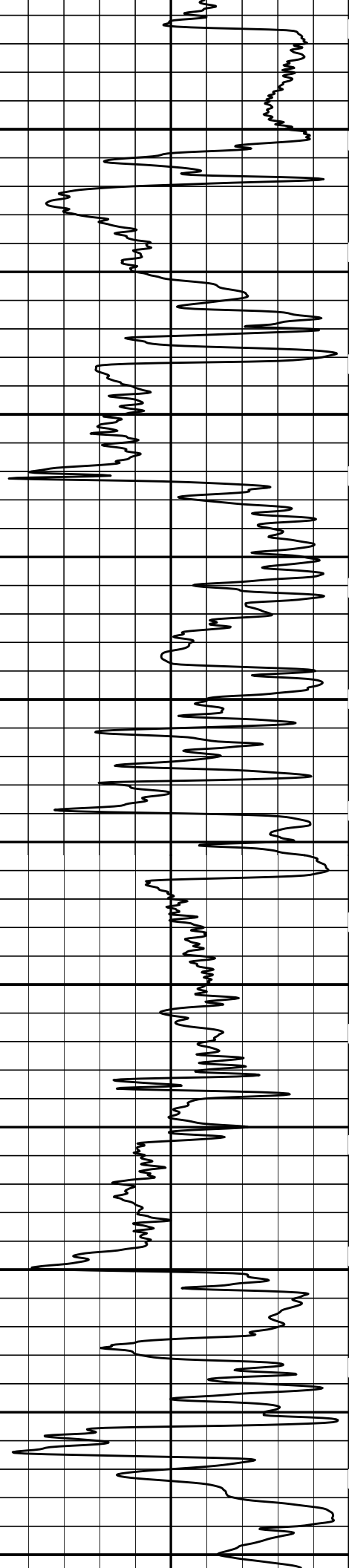
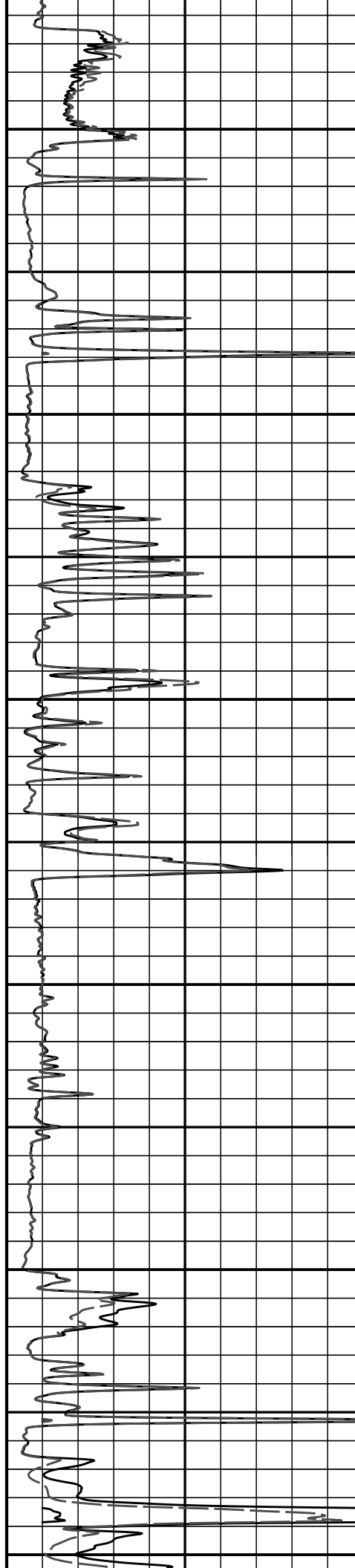
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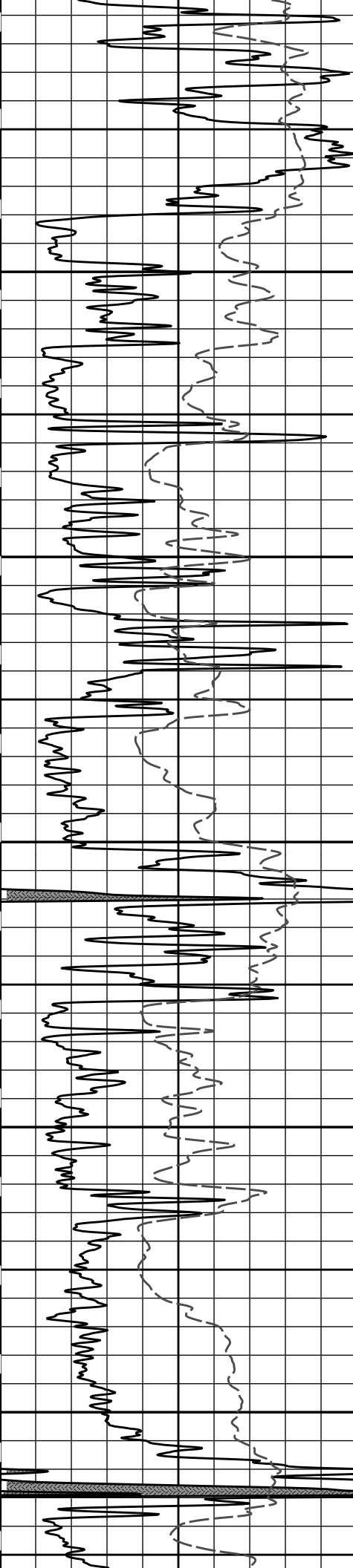
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4400

4500





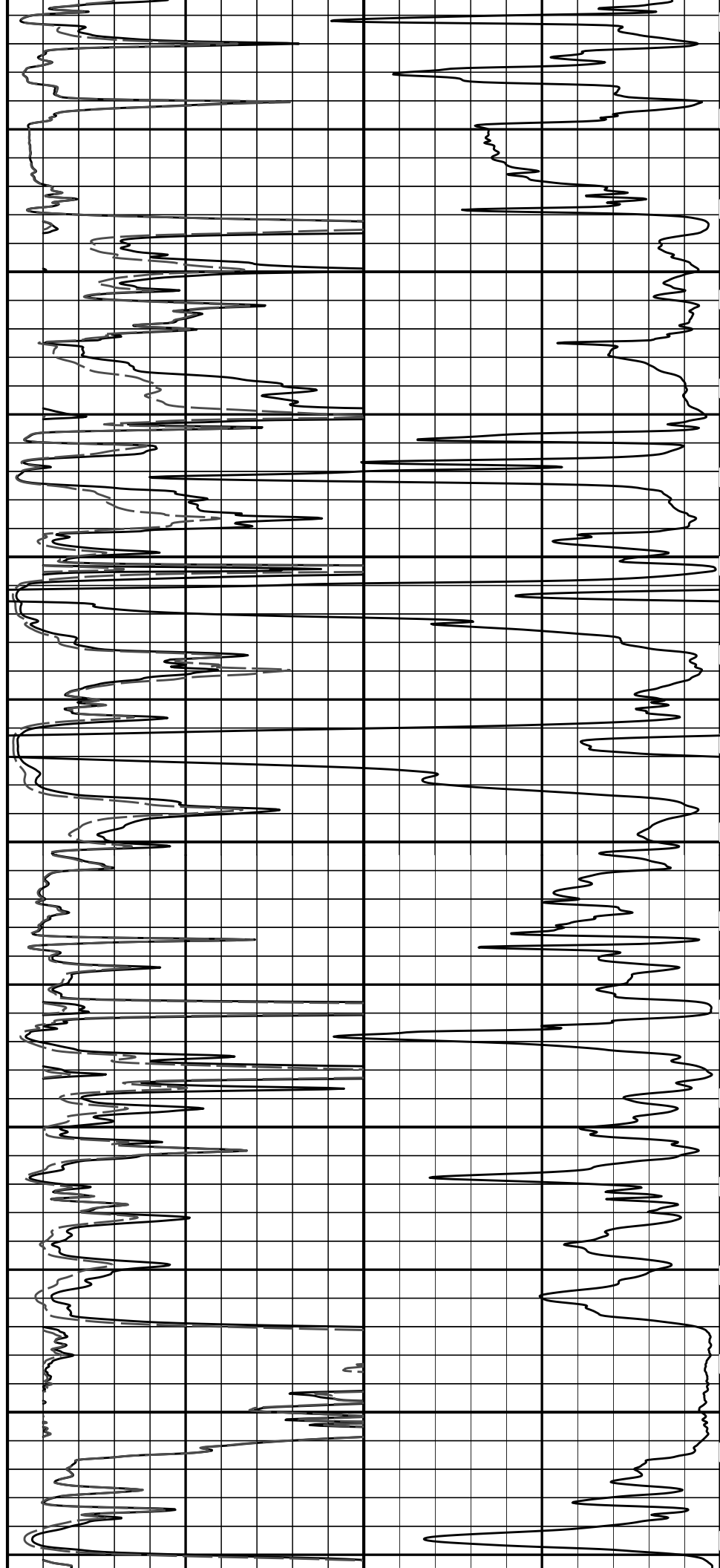
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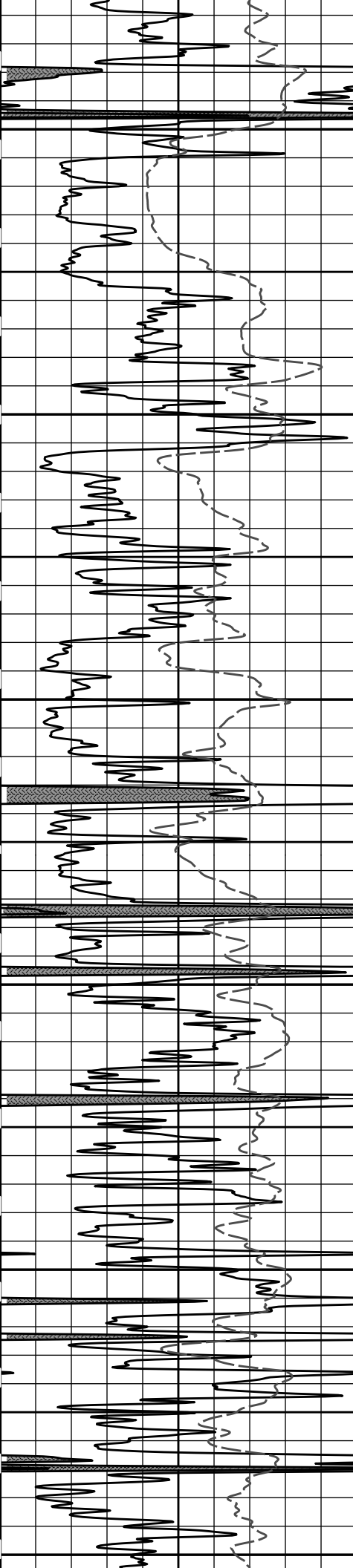
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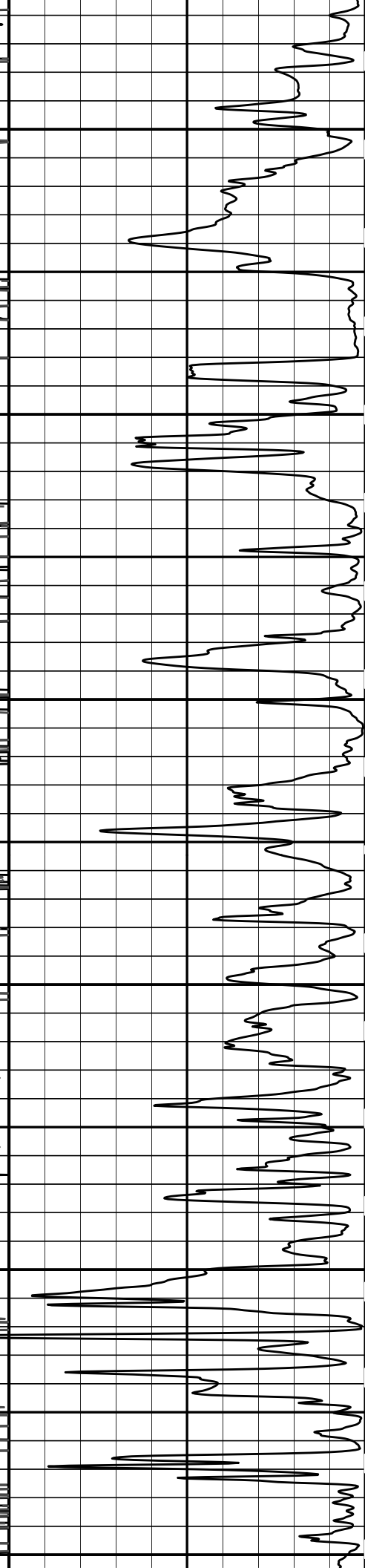
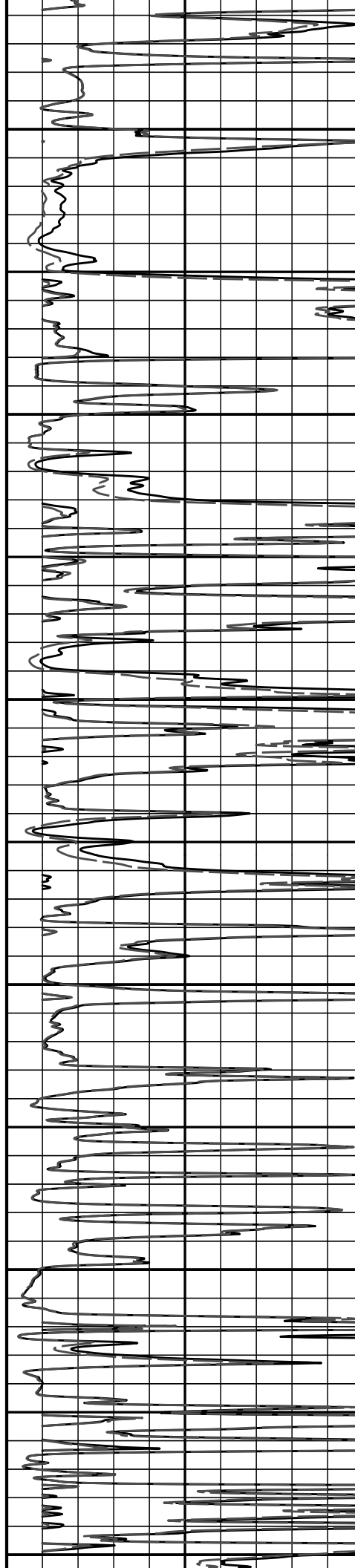
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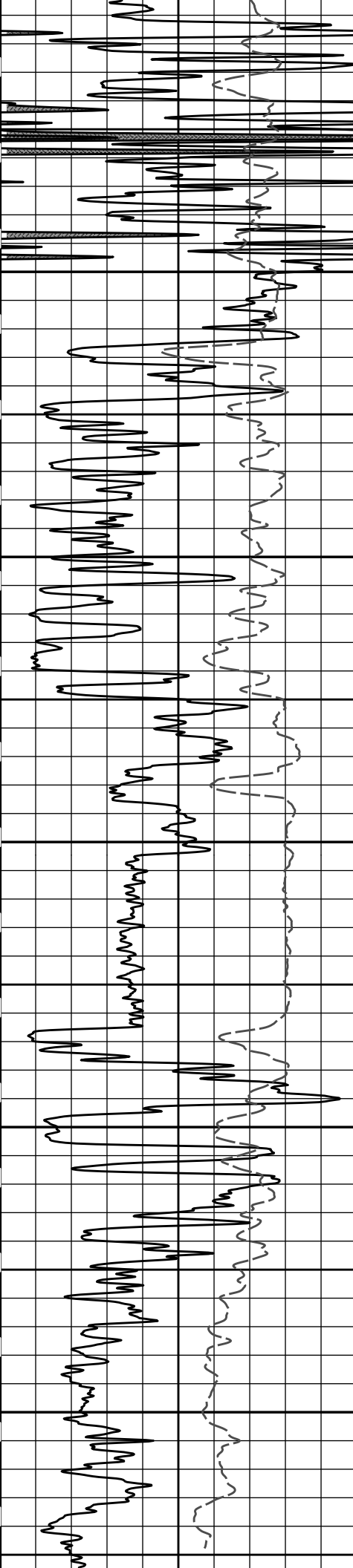
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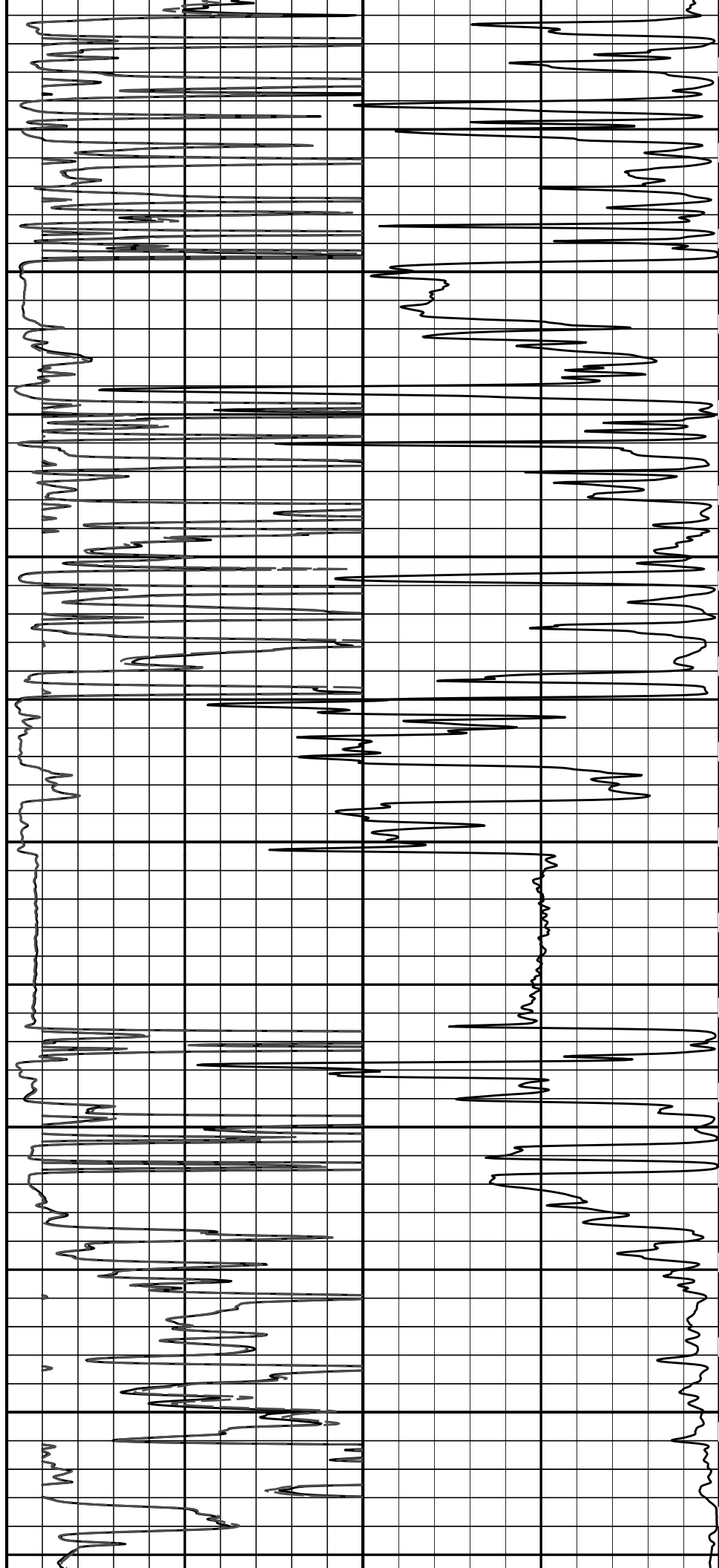
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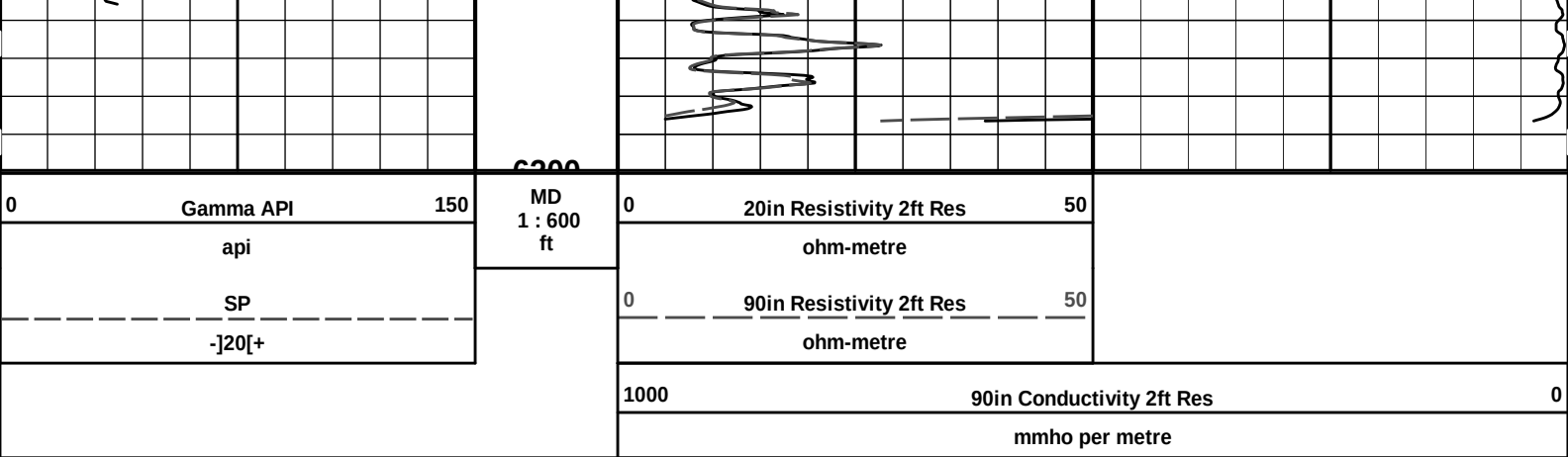
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5900

6000

6100





HALLIBURTON

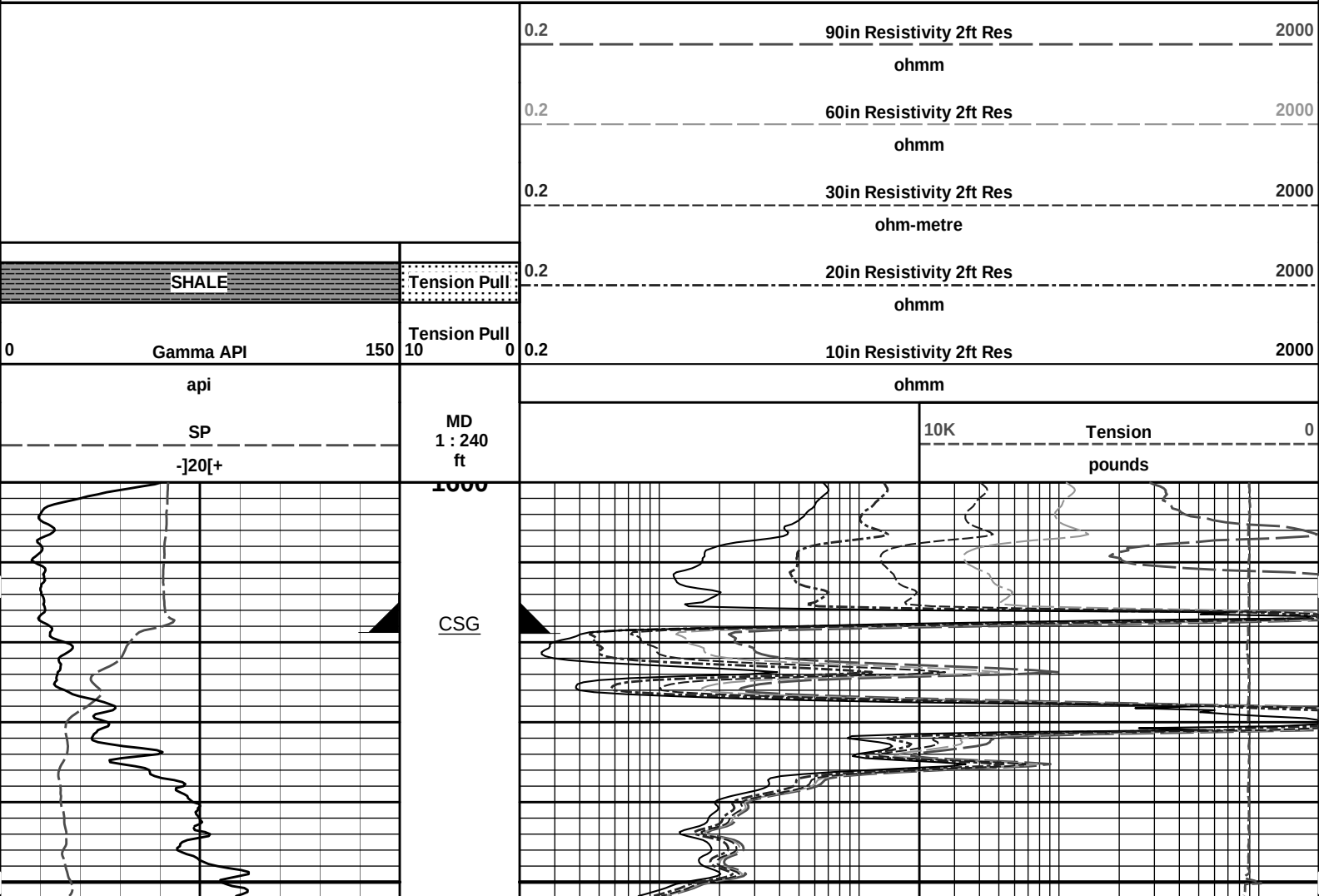
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Data: ANGELL #4-6\Well Based\ACRT\
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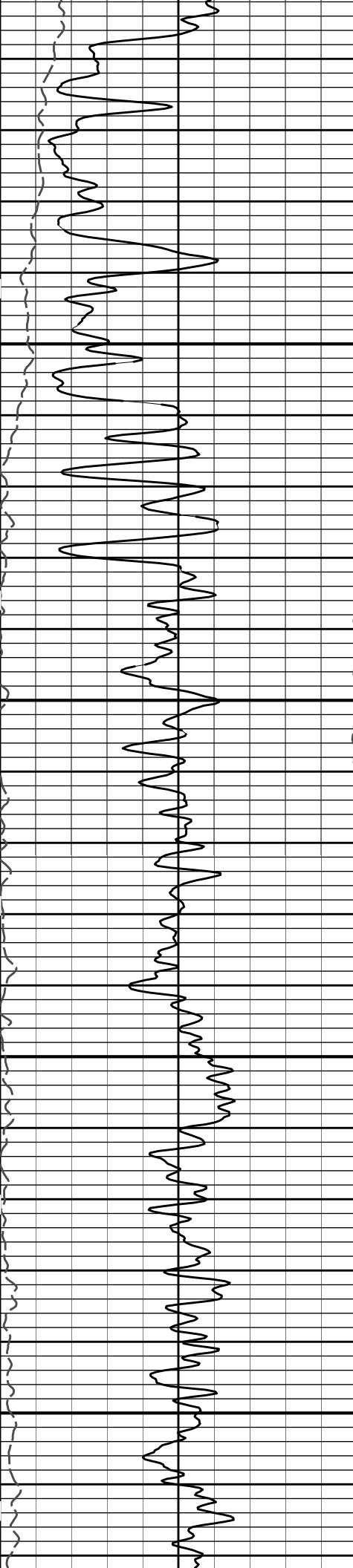
2 INCH MAIN LOG

HALLIBURTON

Plot Time: 18-Nov-12 15:46:14
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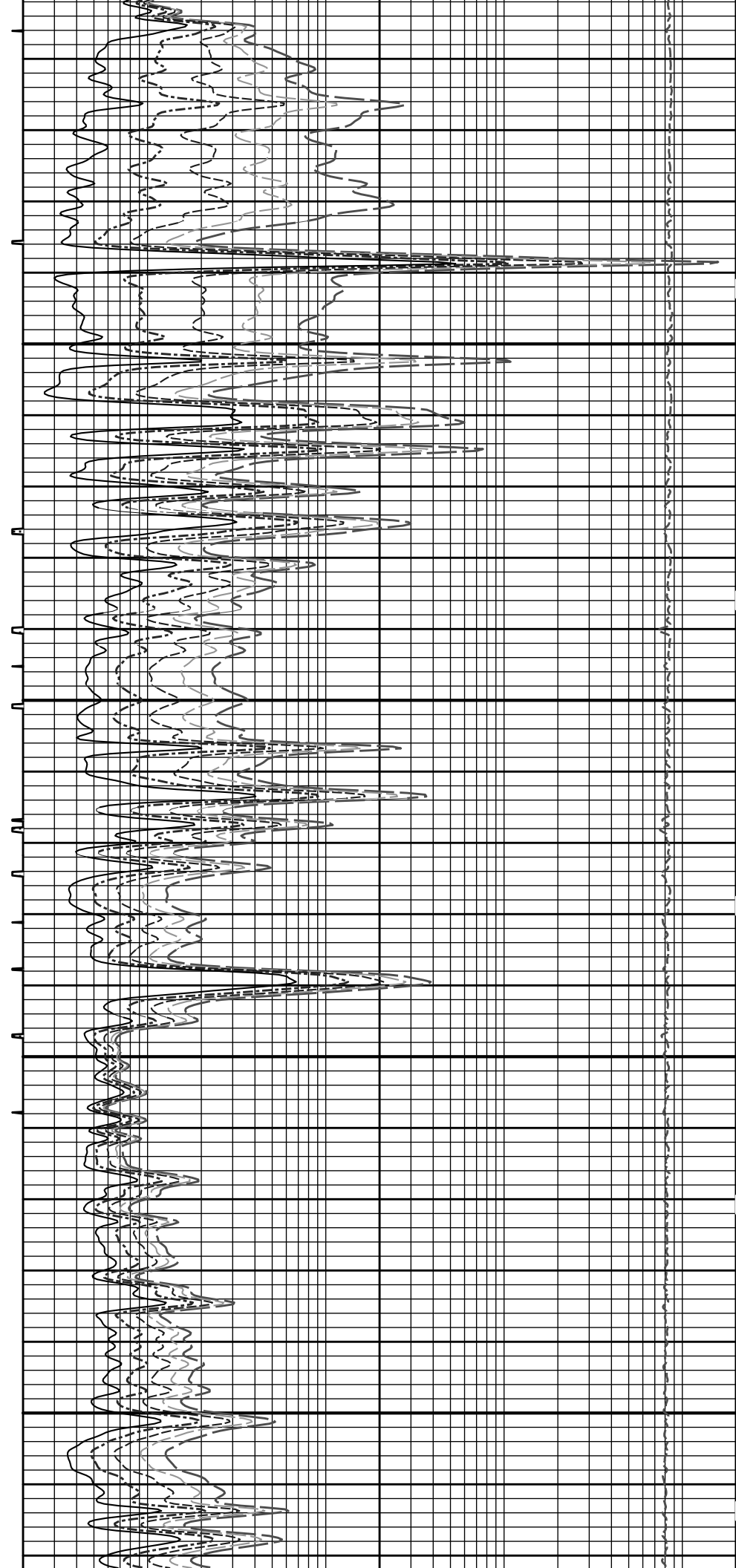
5 INCH MAIN LOG

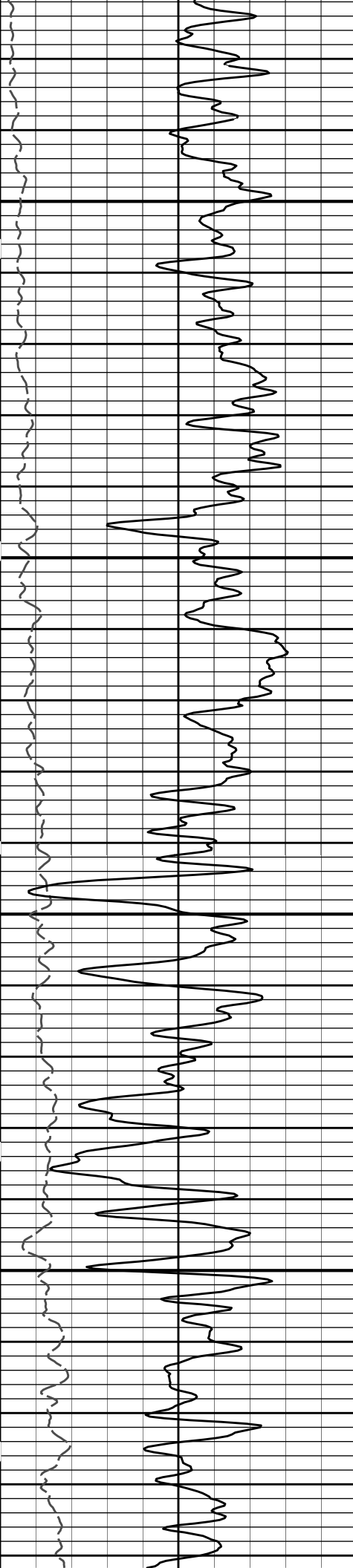




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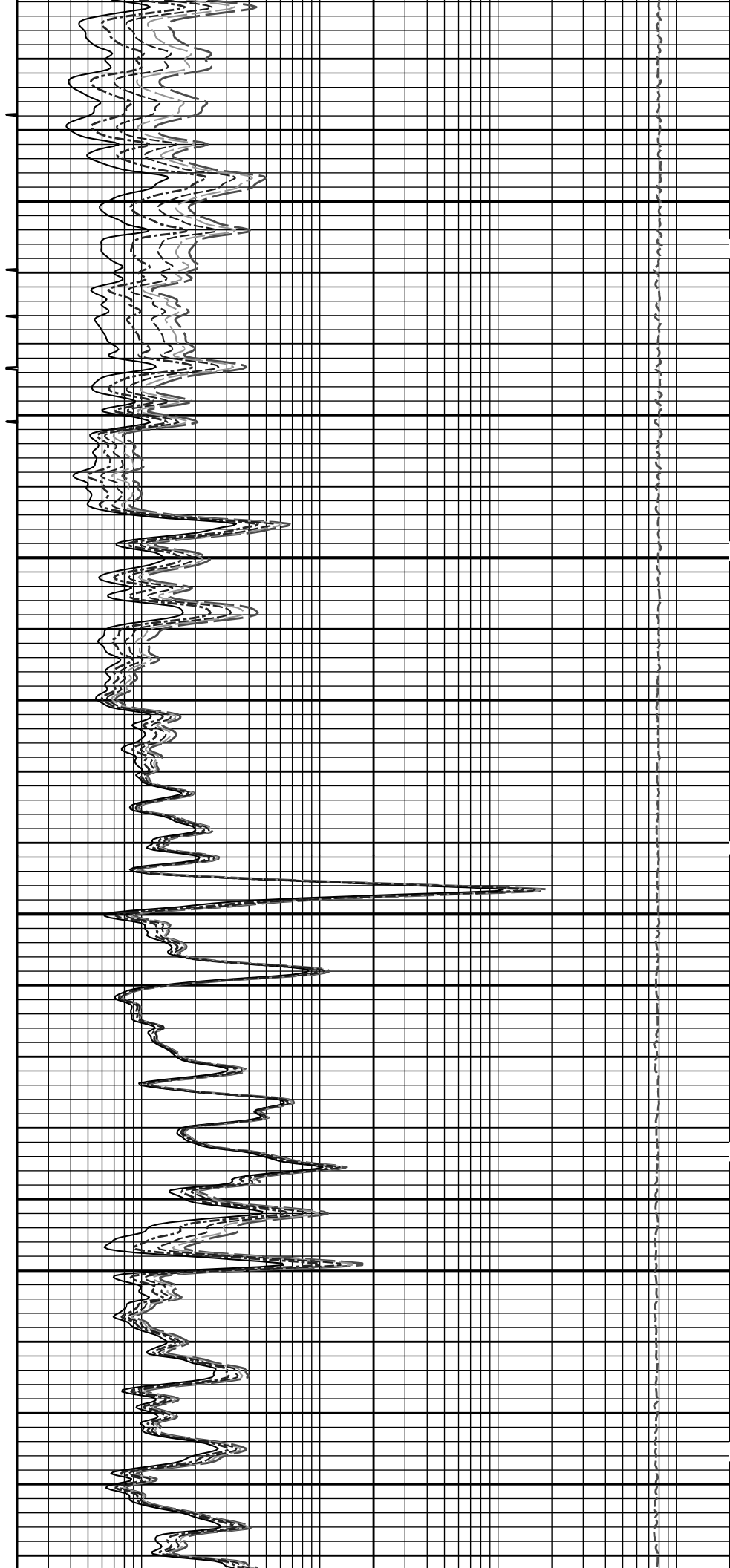
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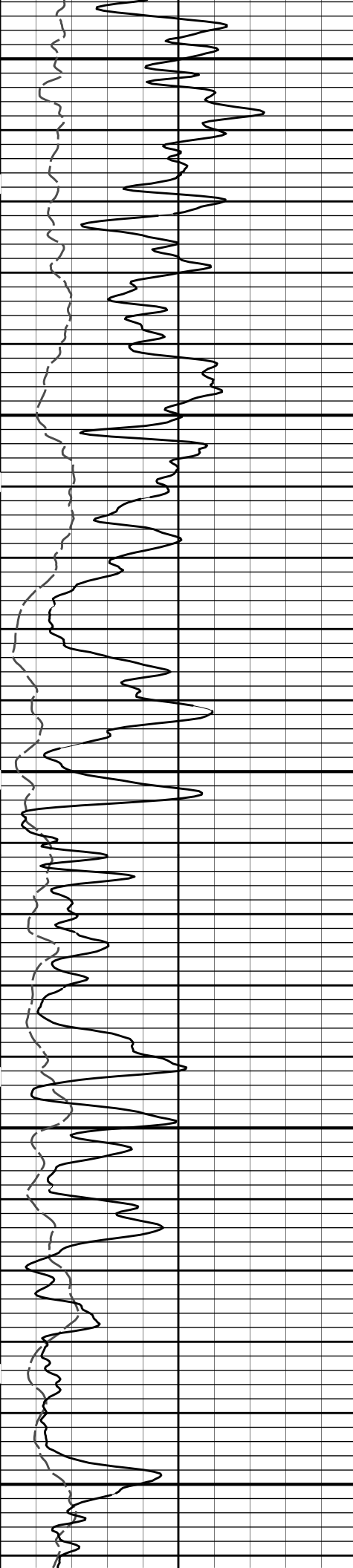




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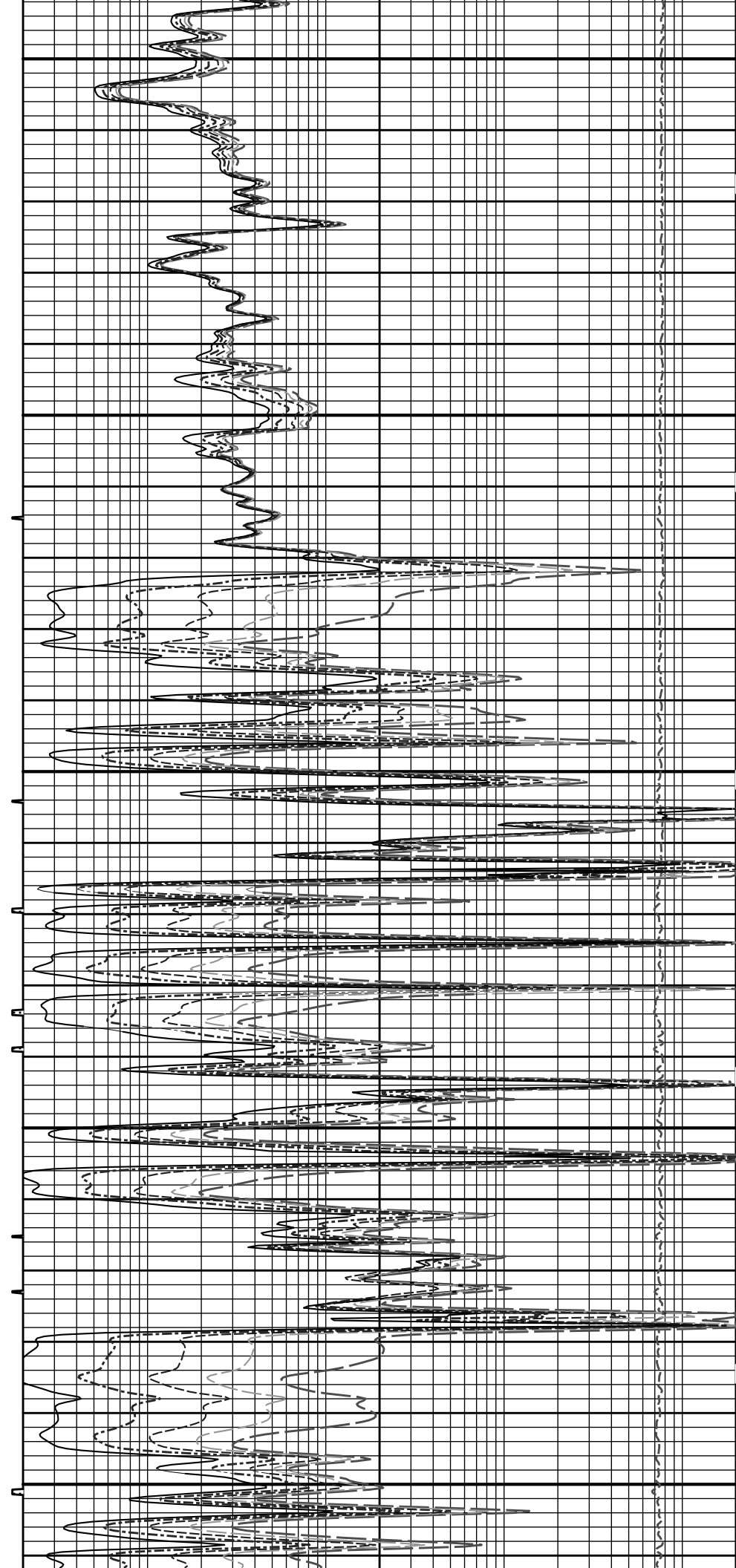


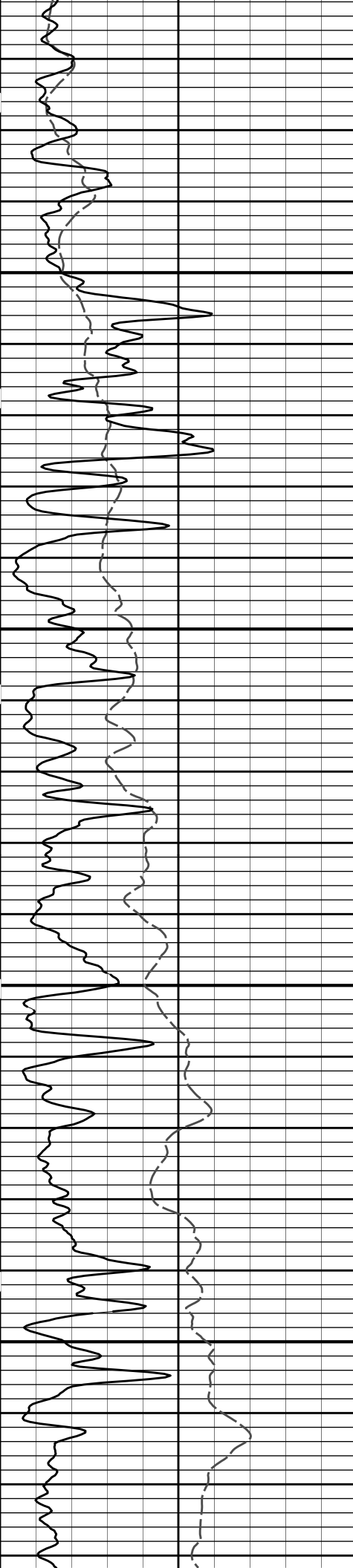


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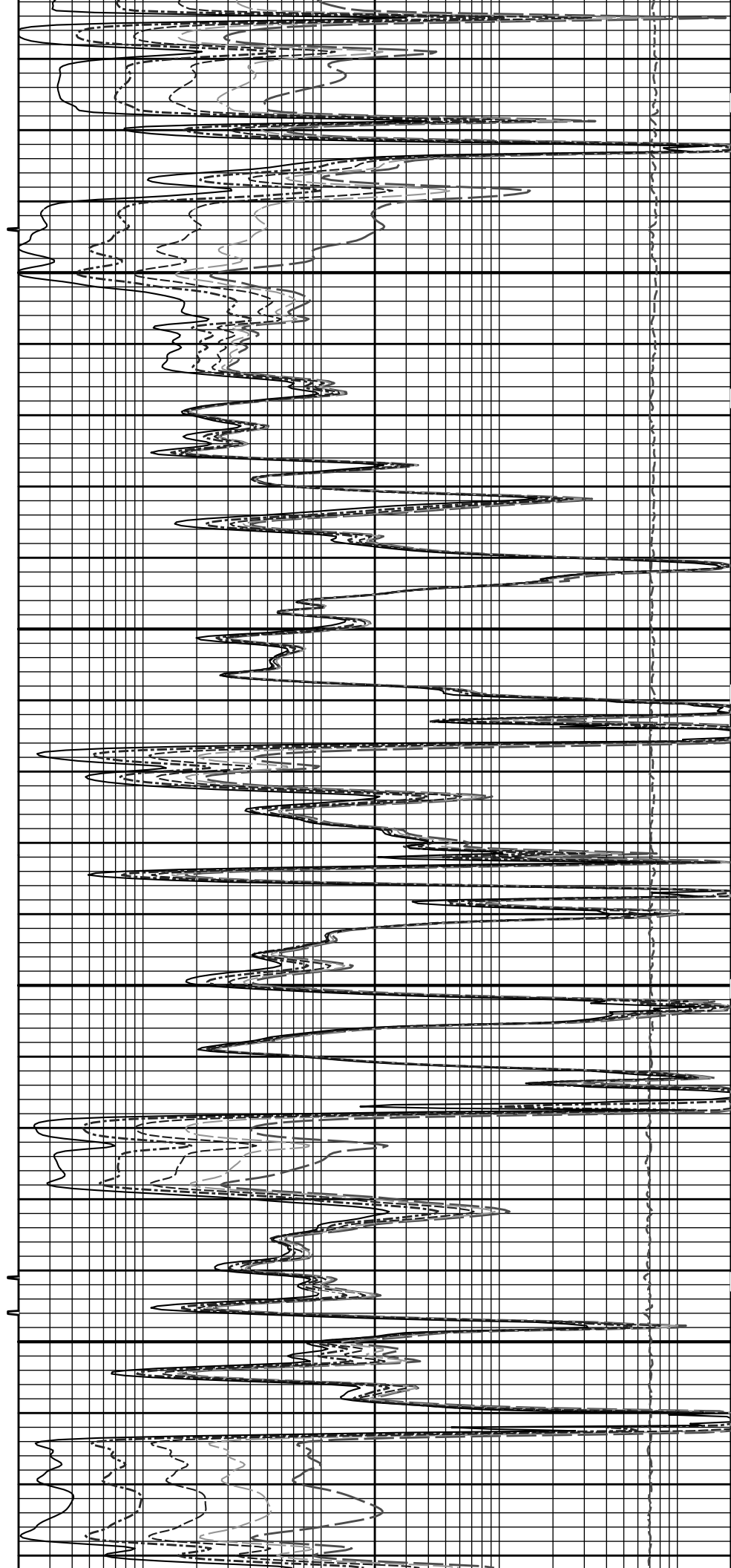
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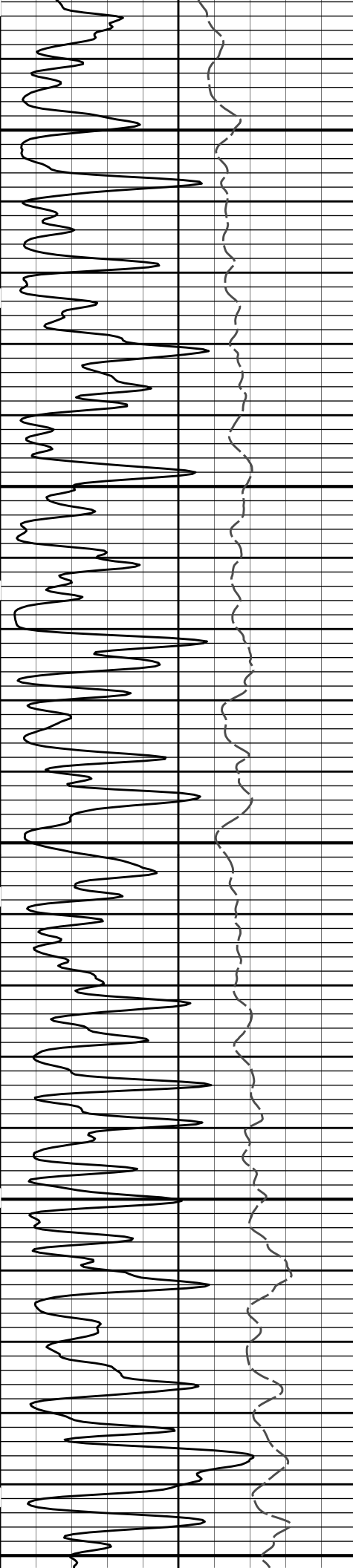




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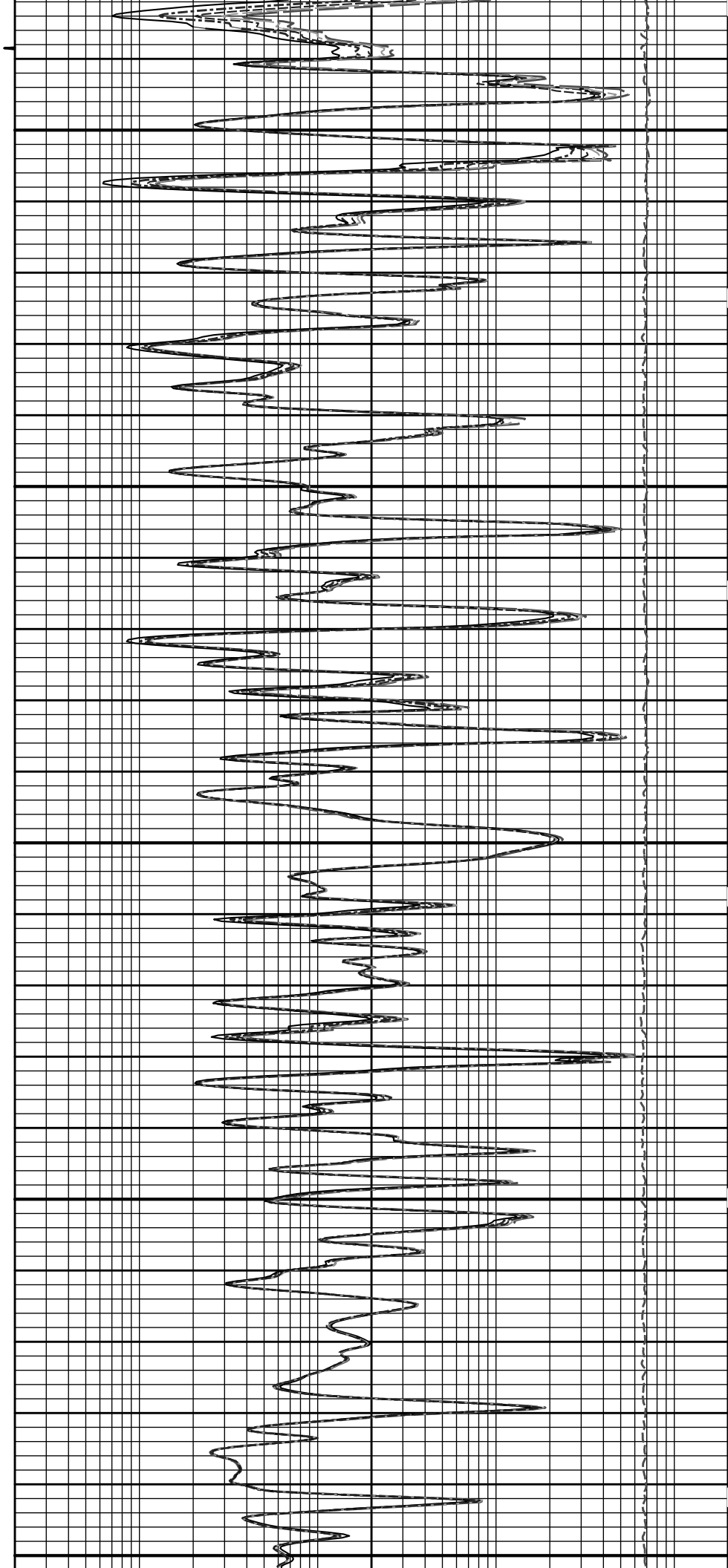
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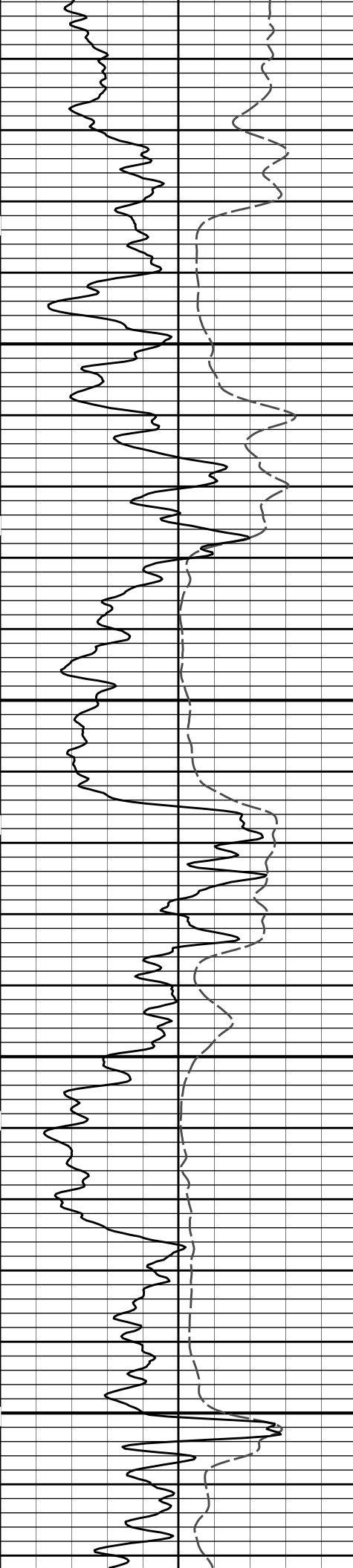




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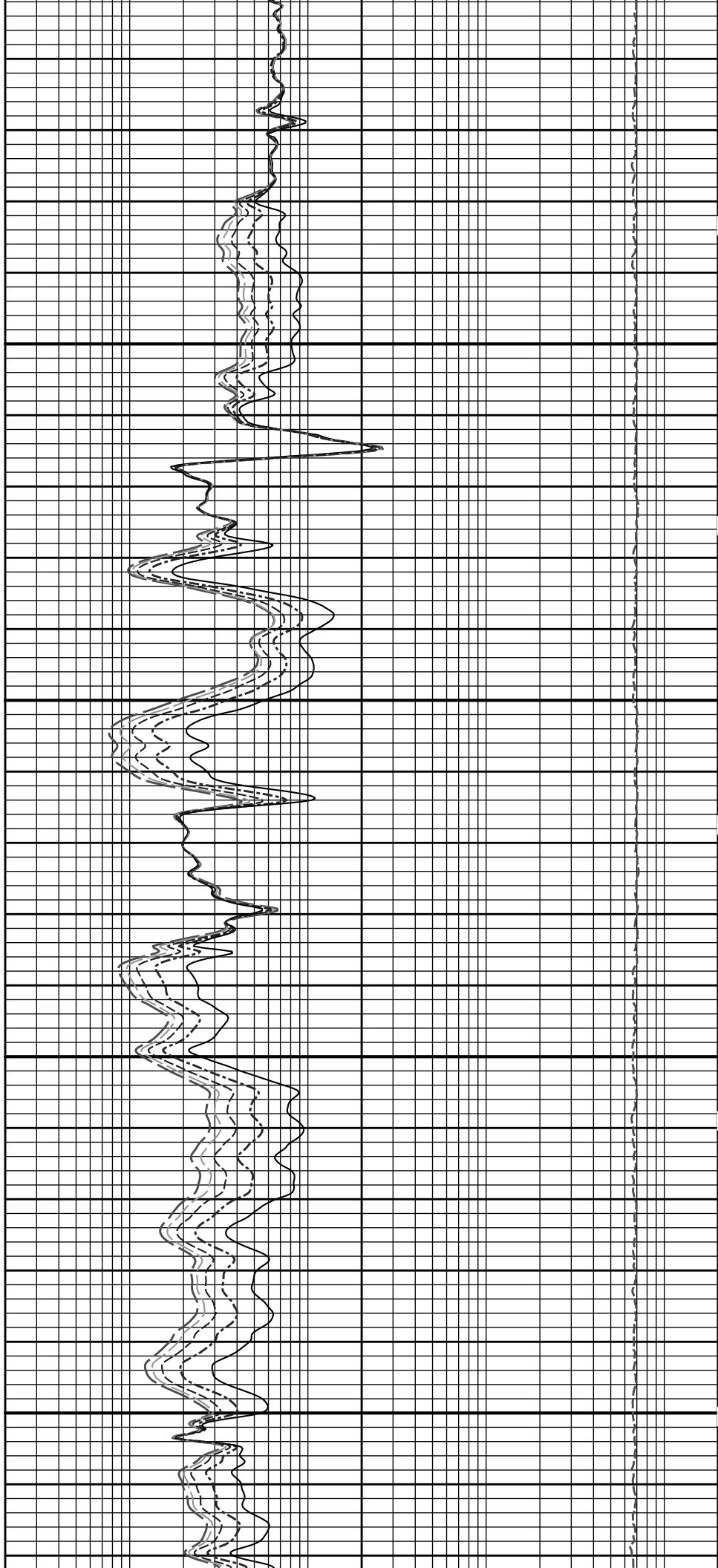
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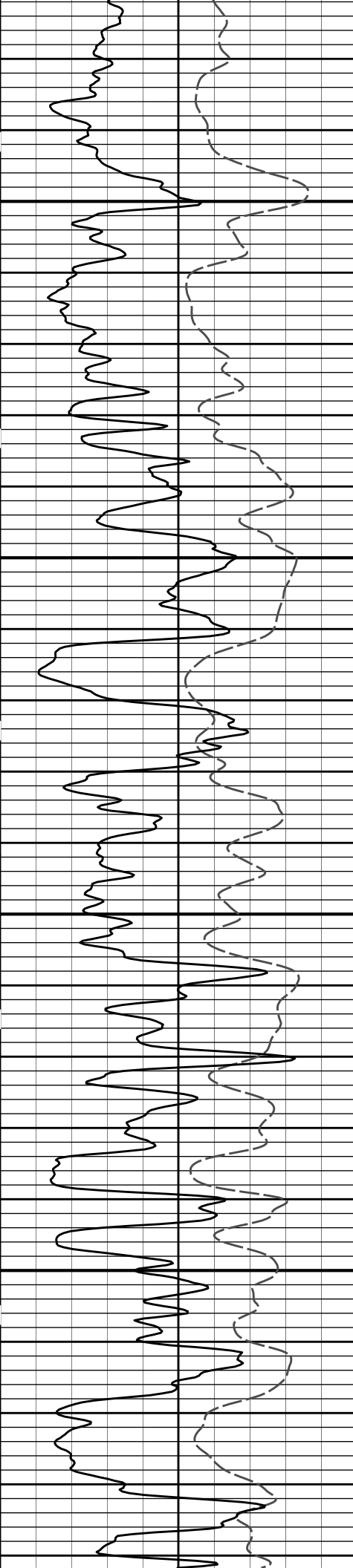




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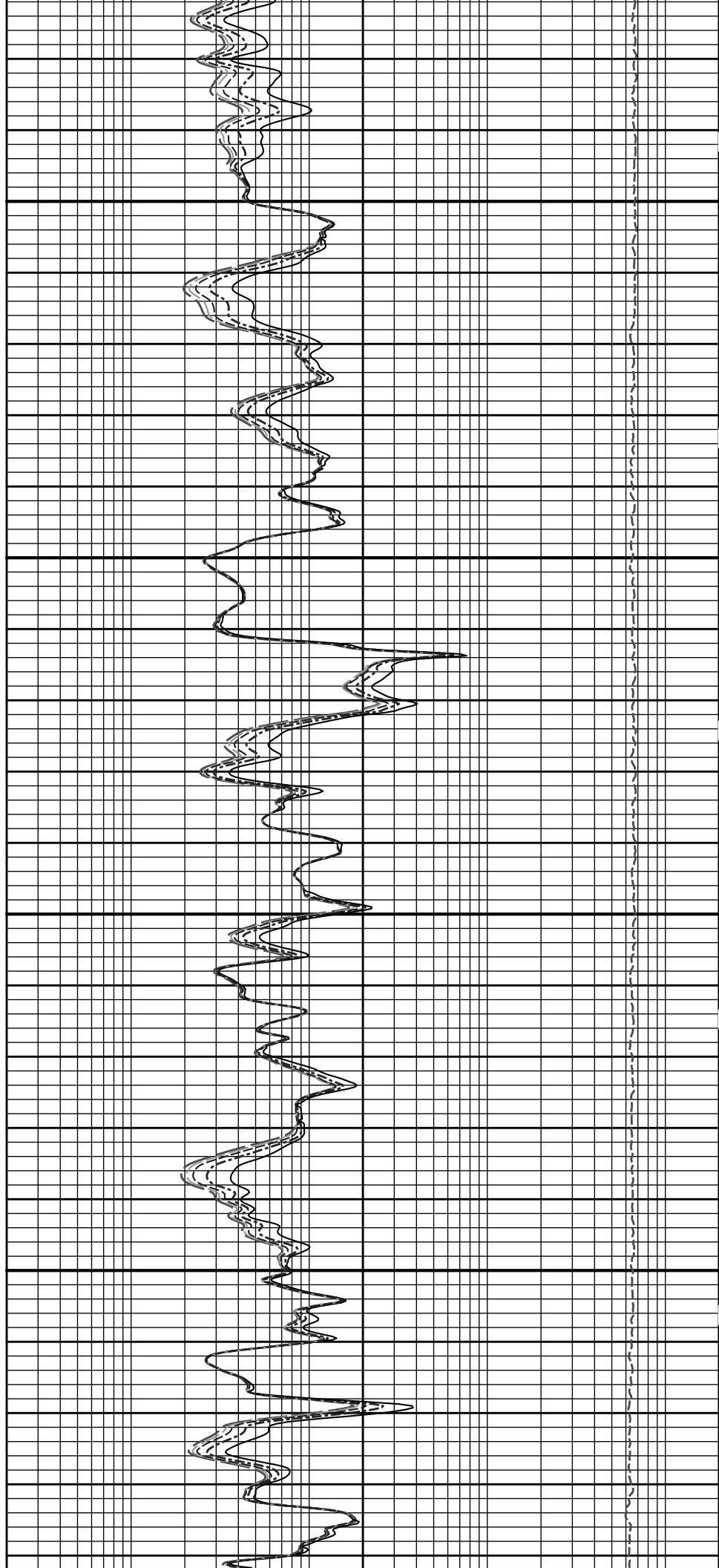
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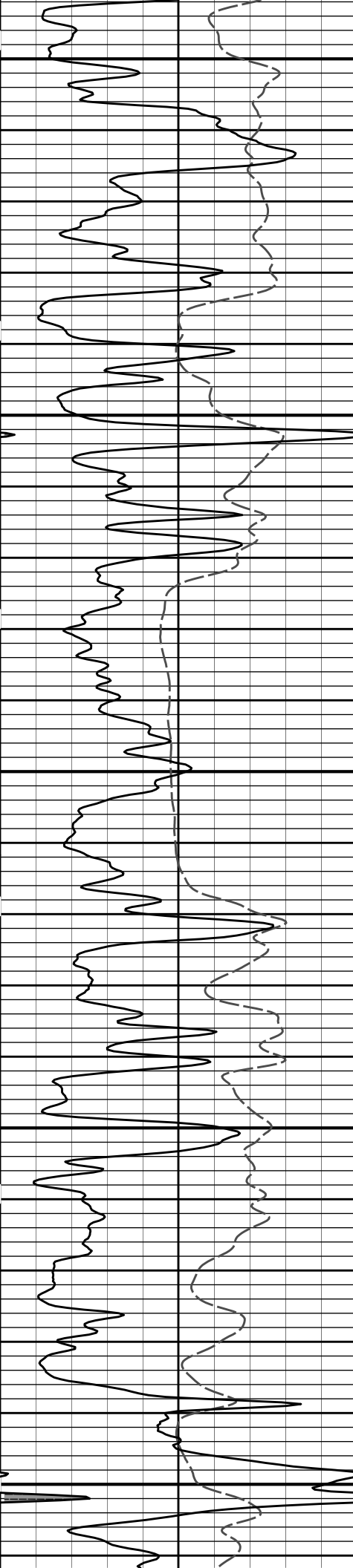




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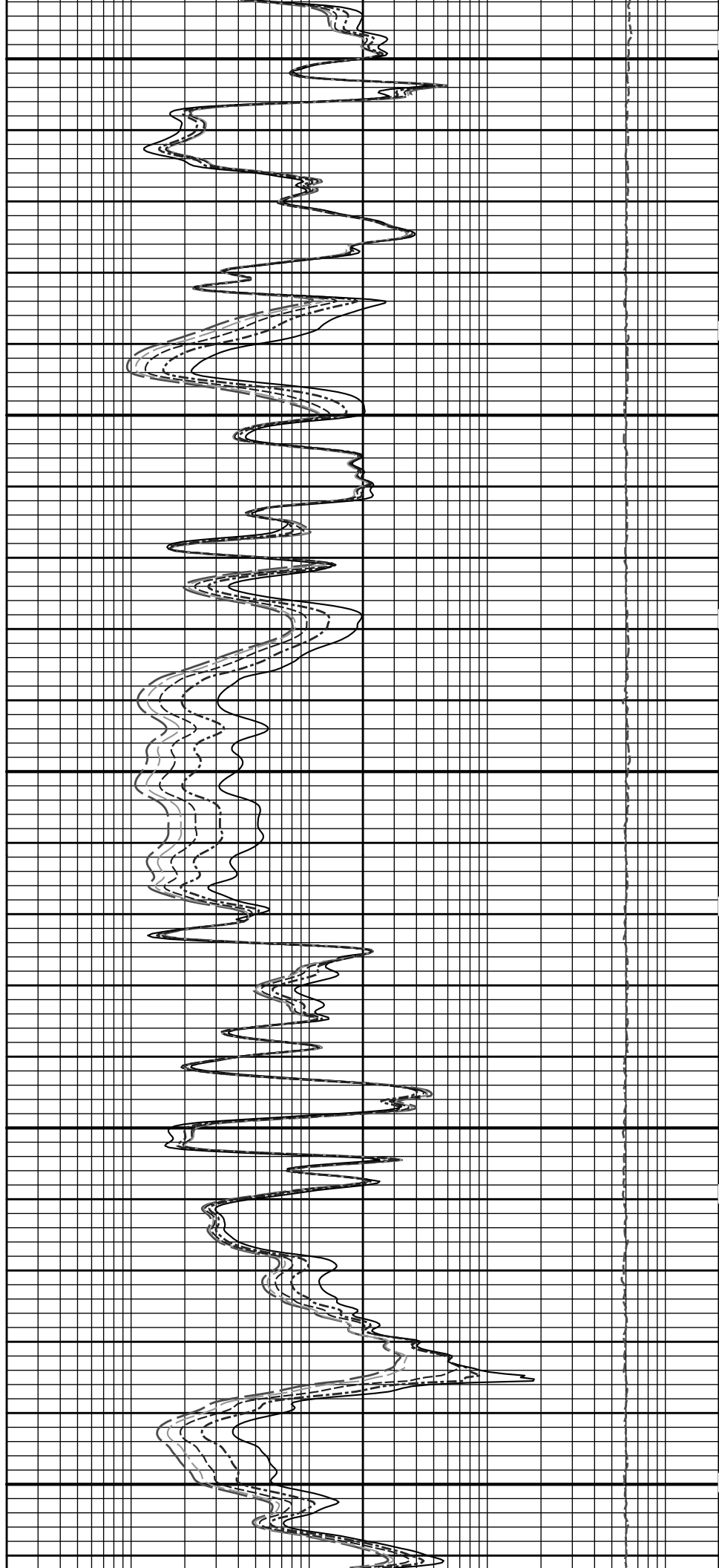


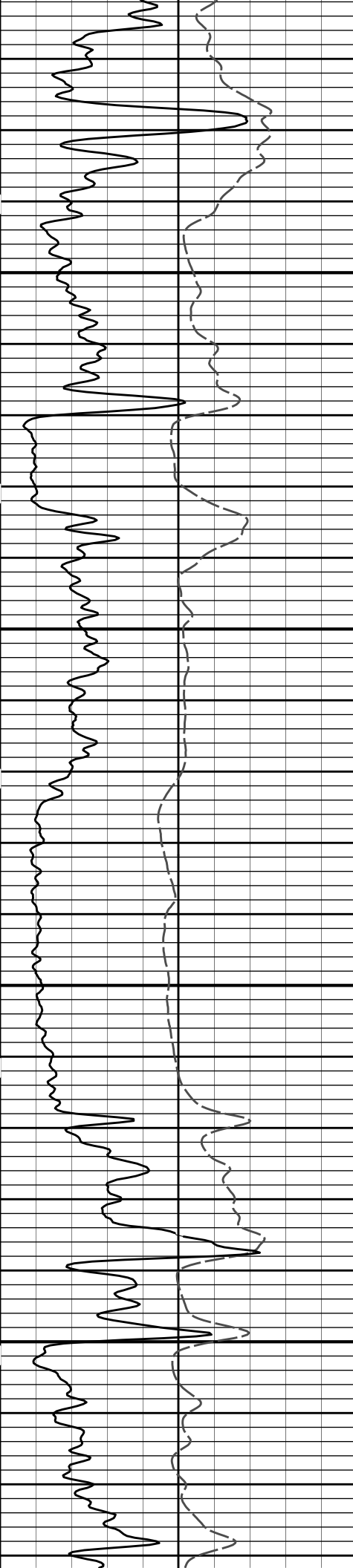


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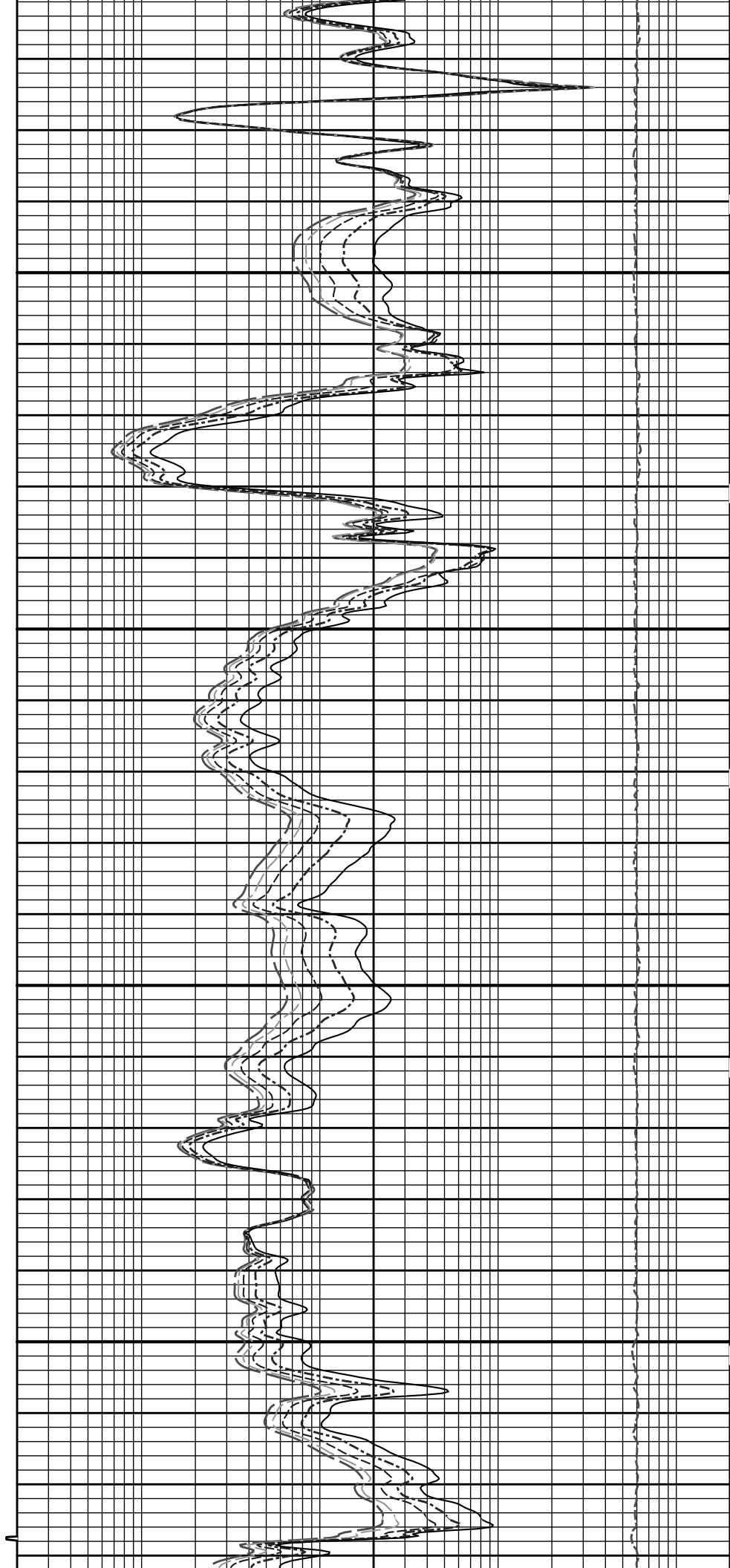
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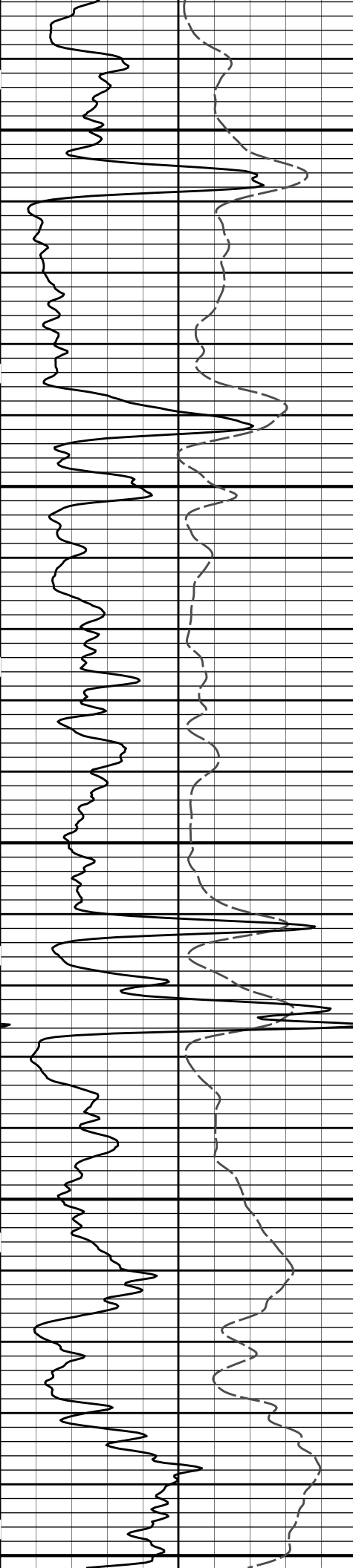




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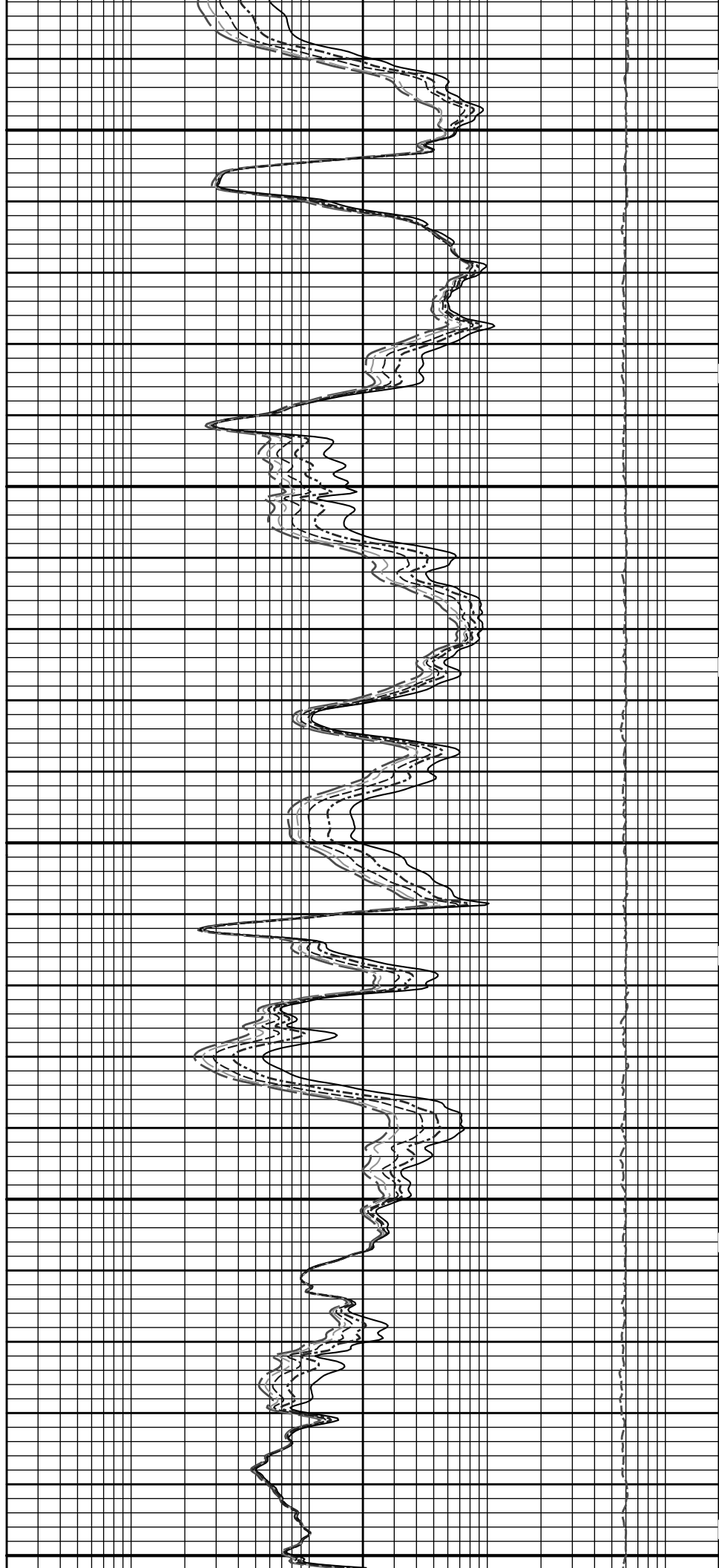
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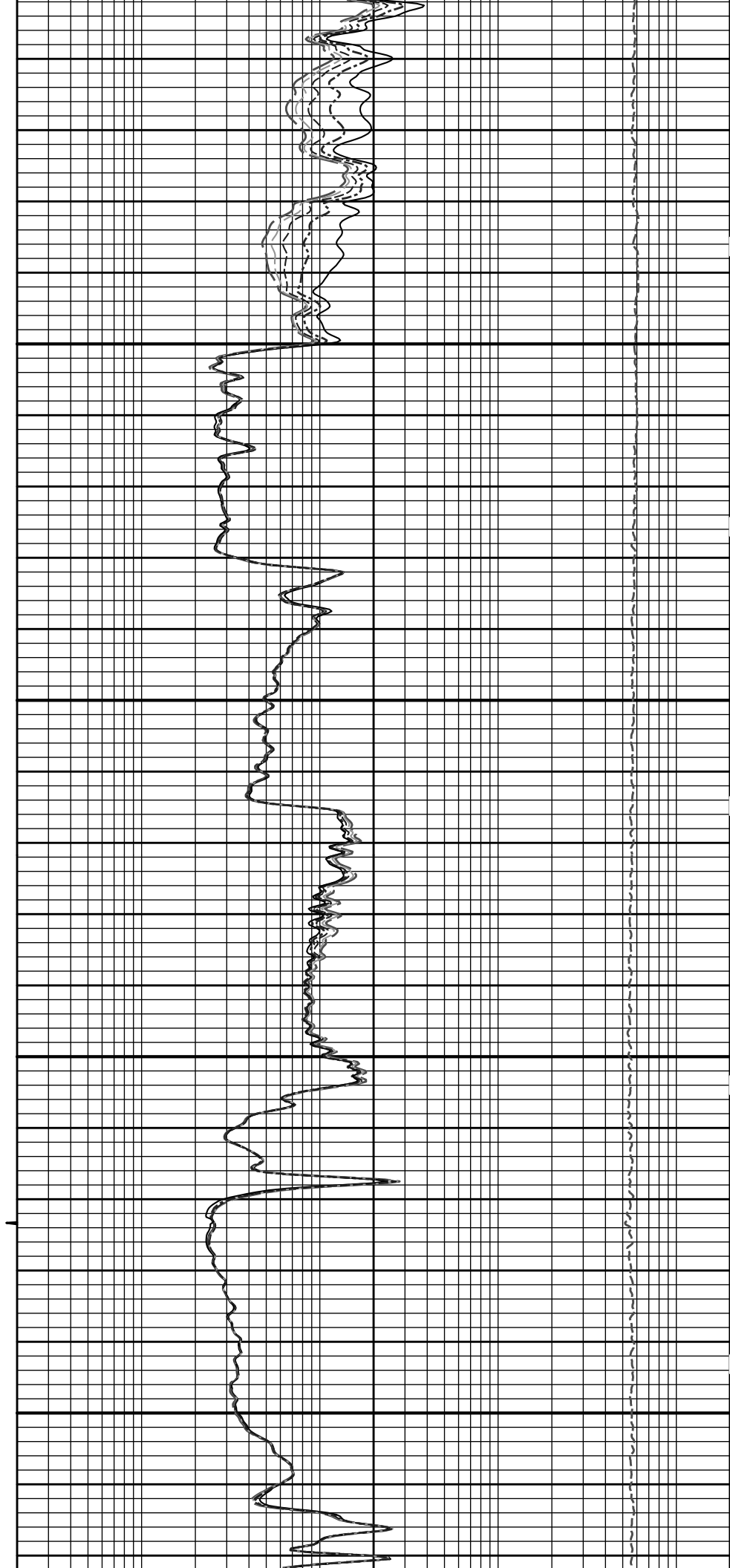
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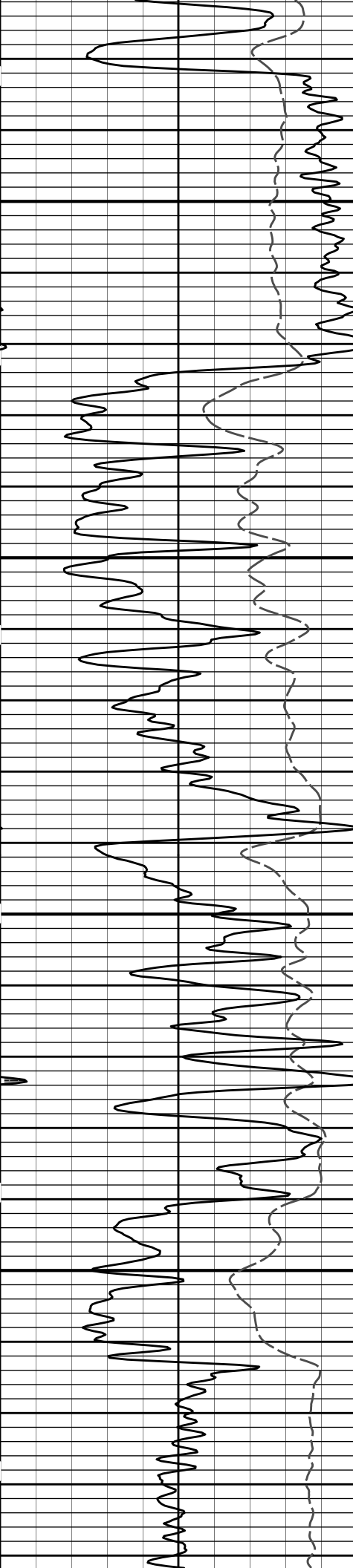




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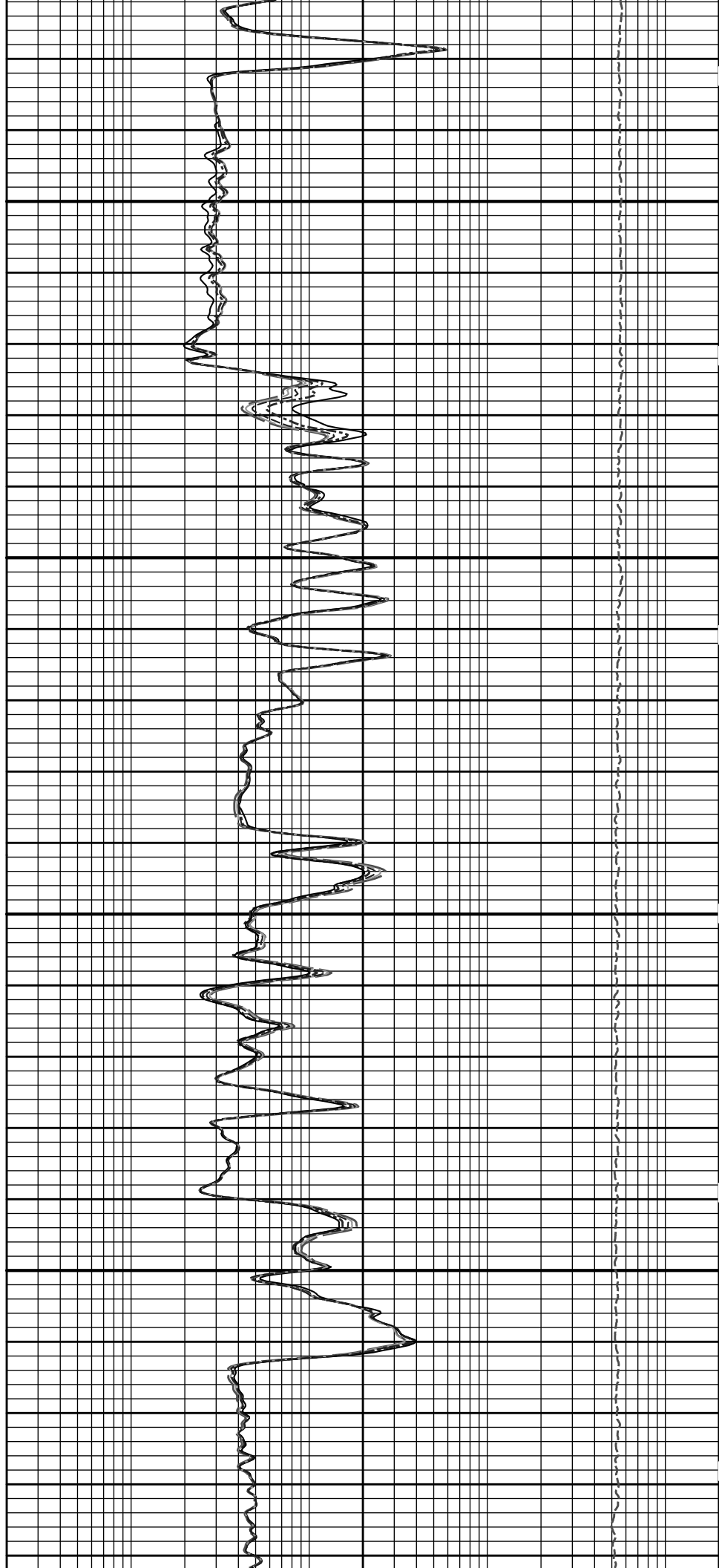
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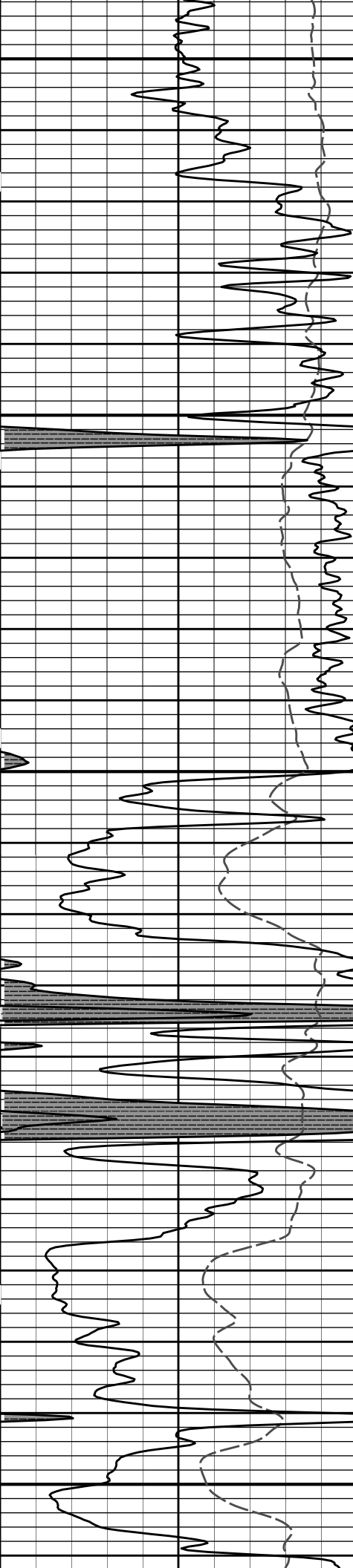




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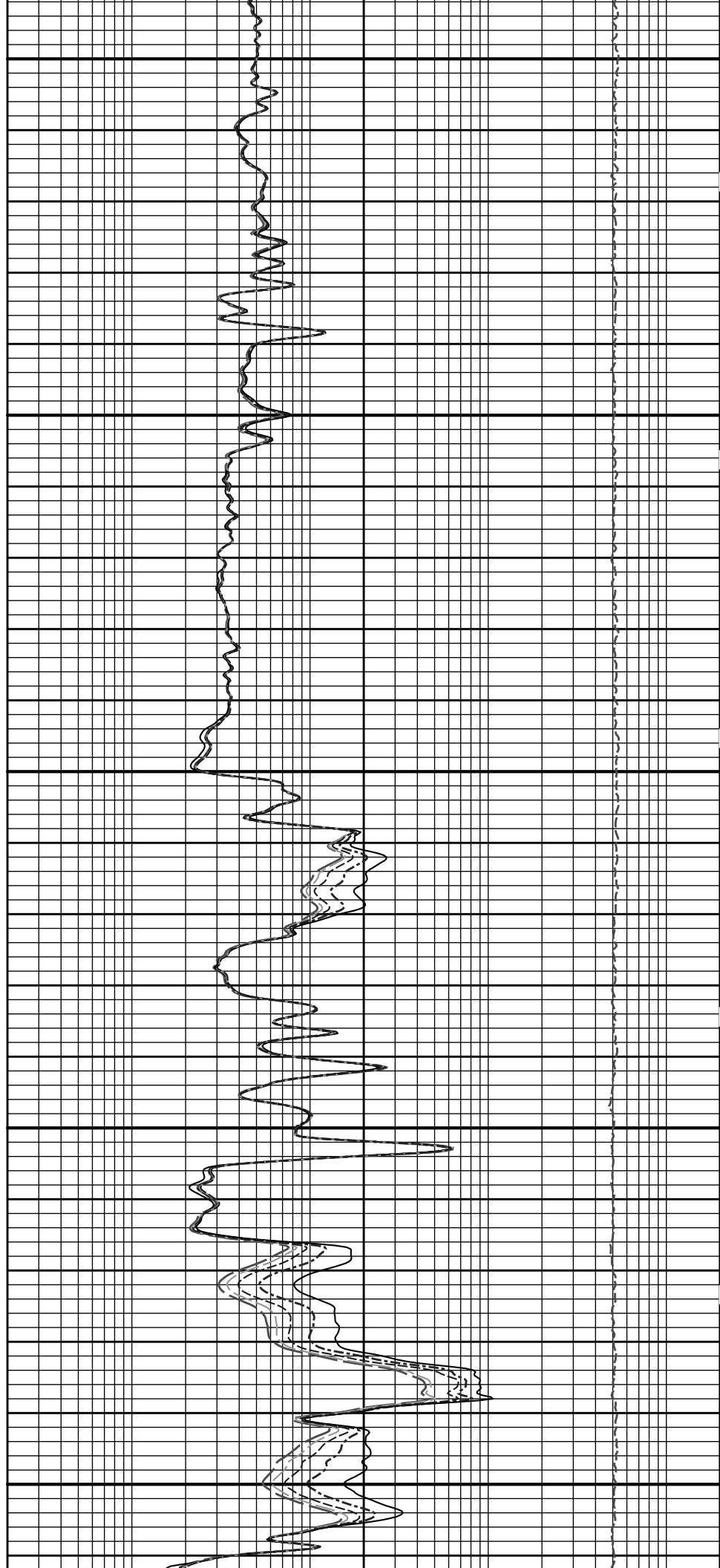


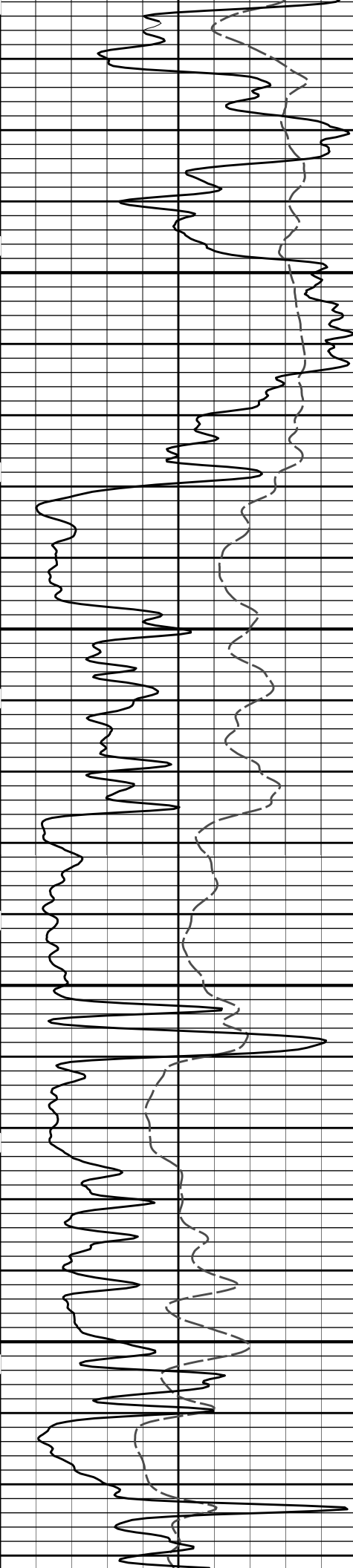


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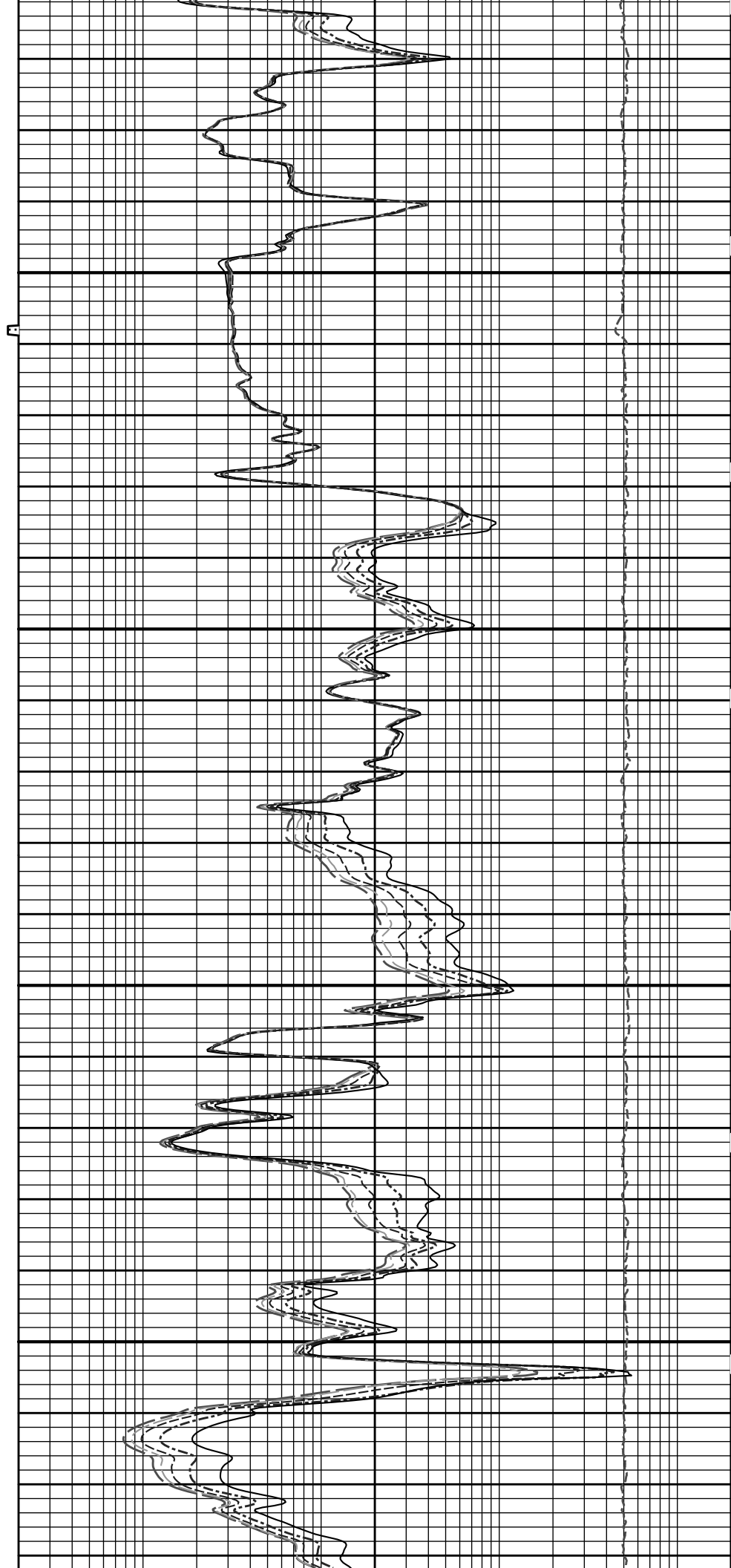
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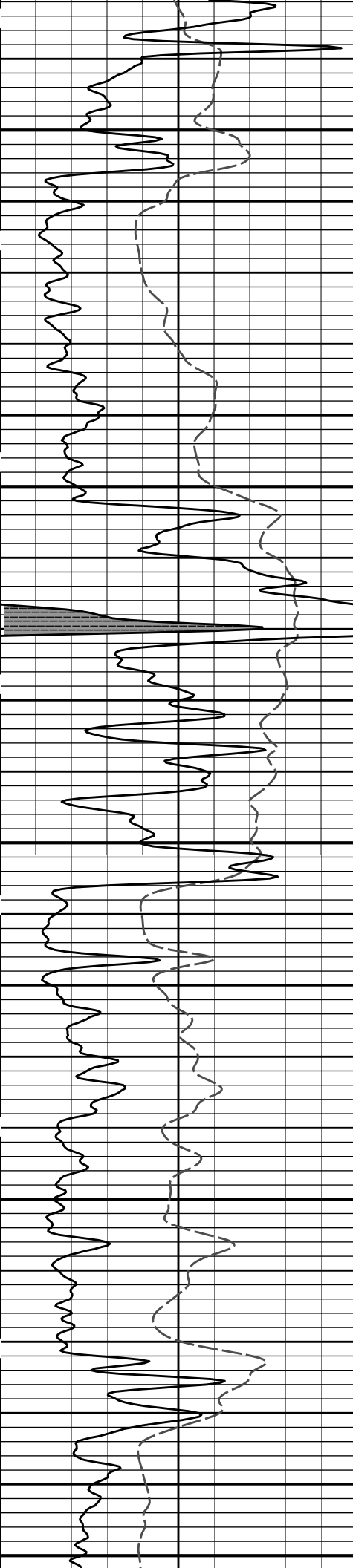




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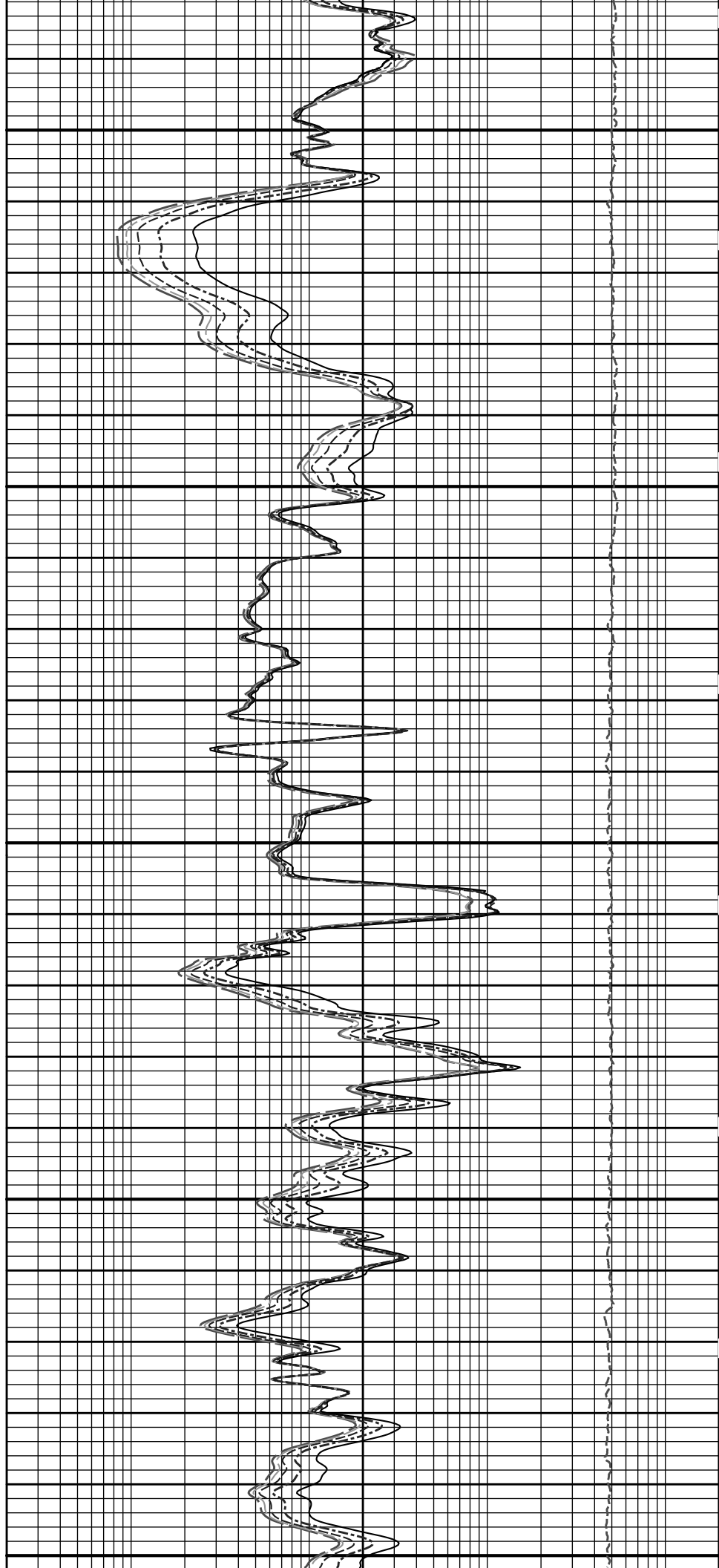
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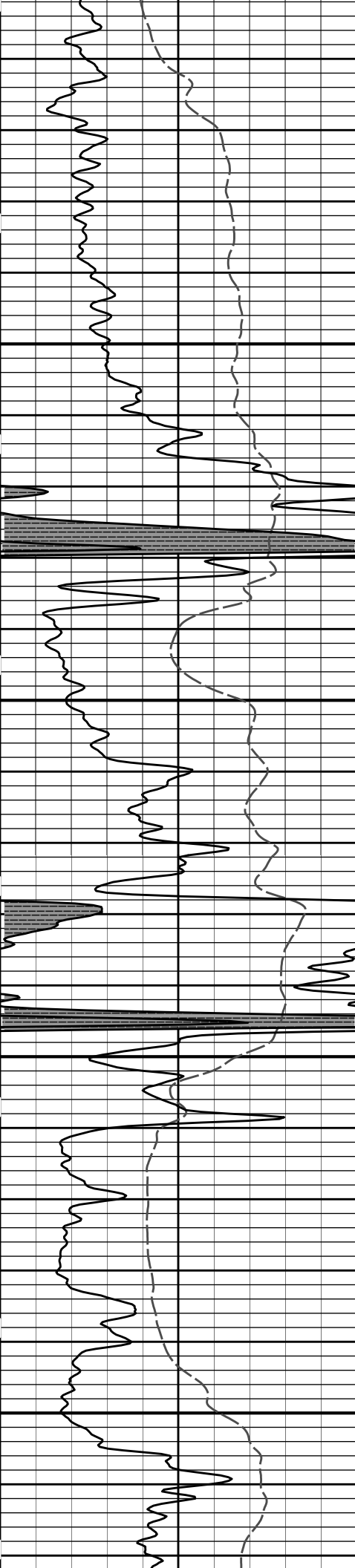




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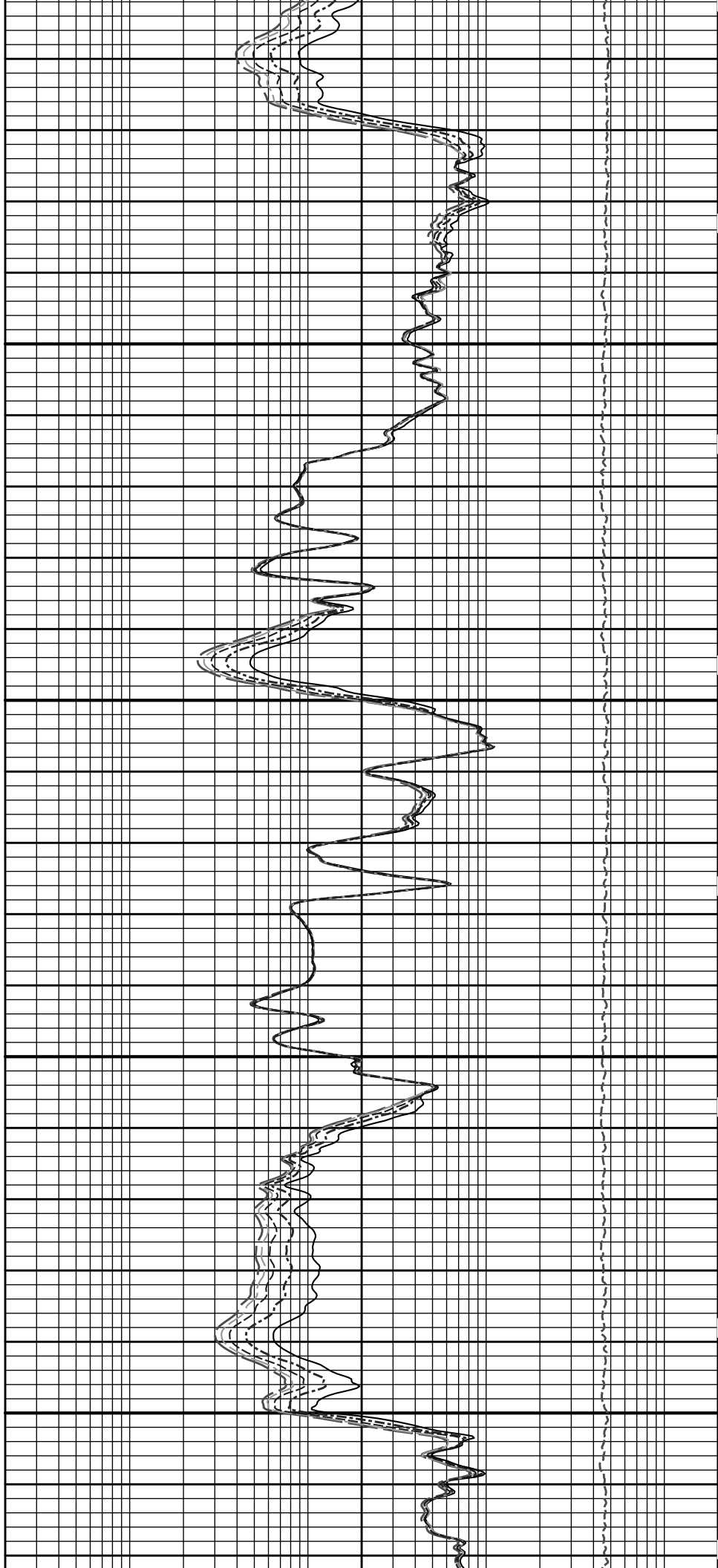
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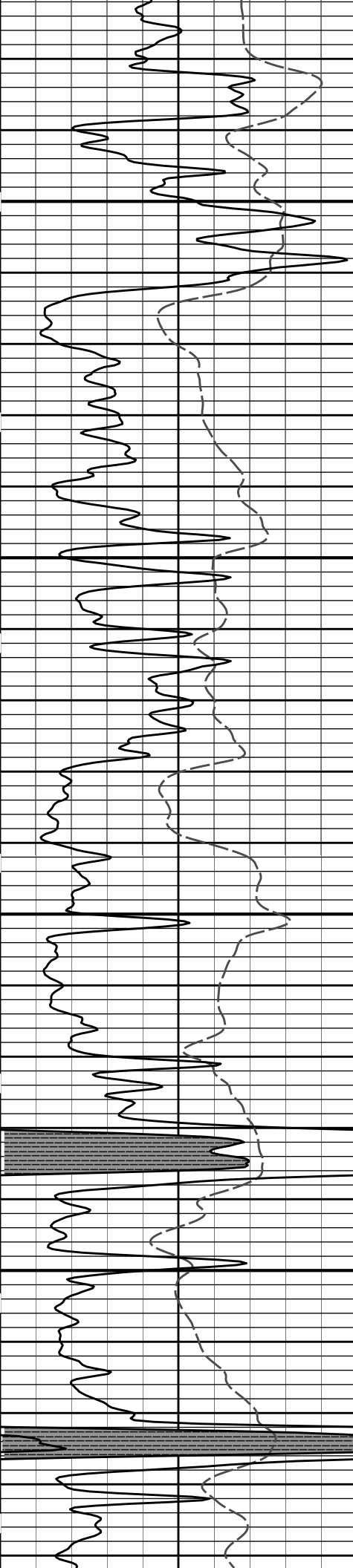




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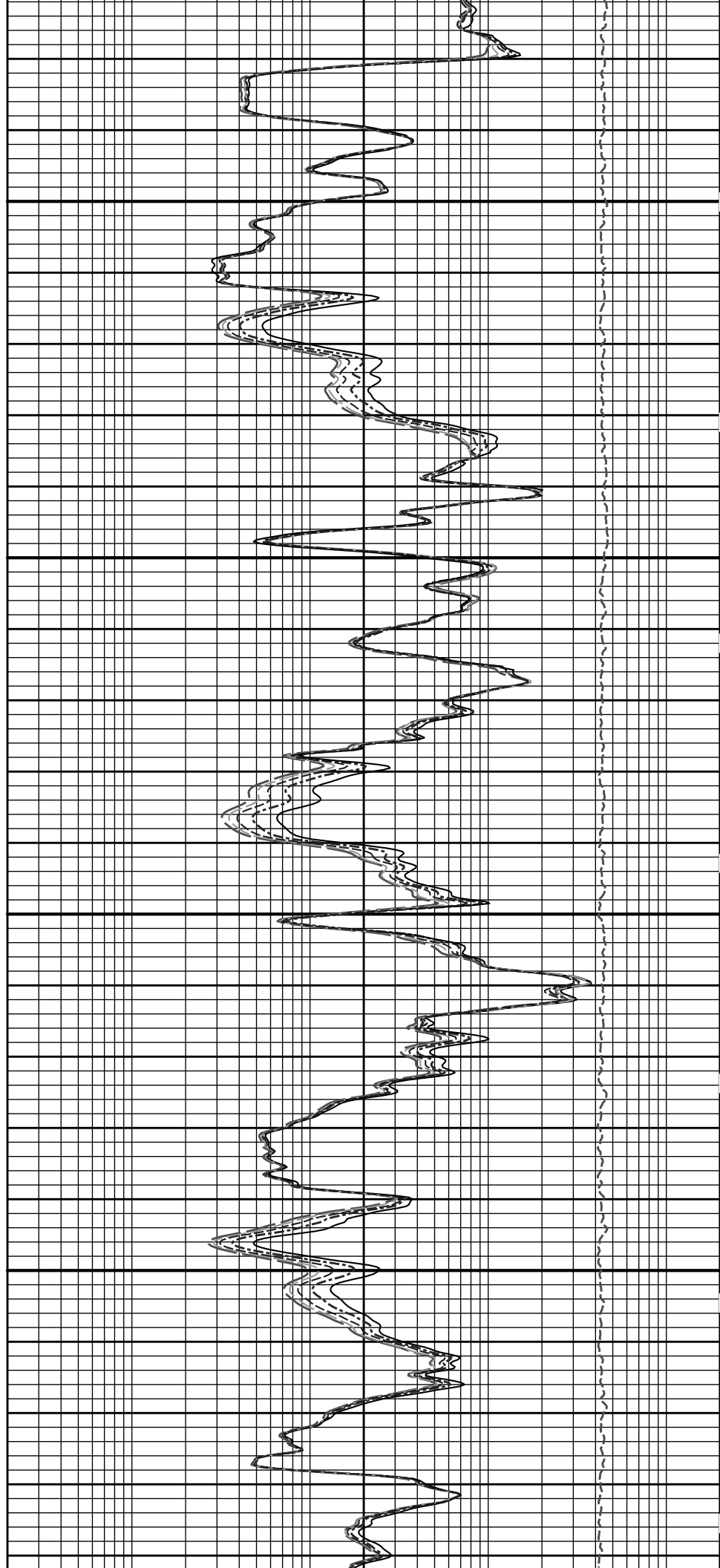
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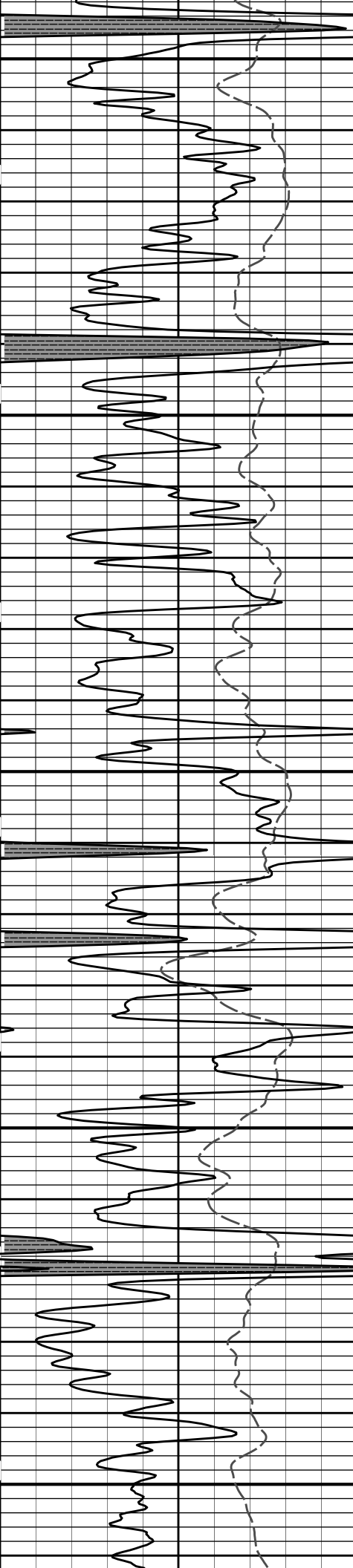




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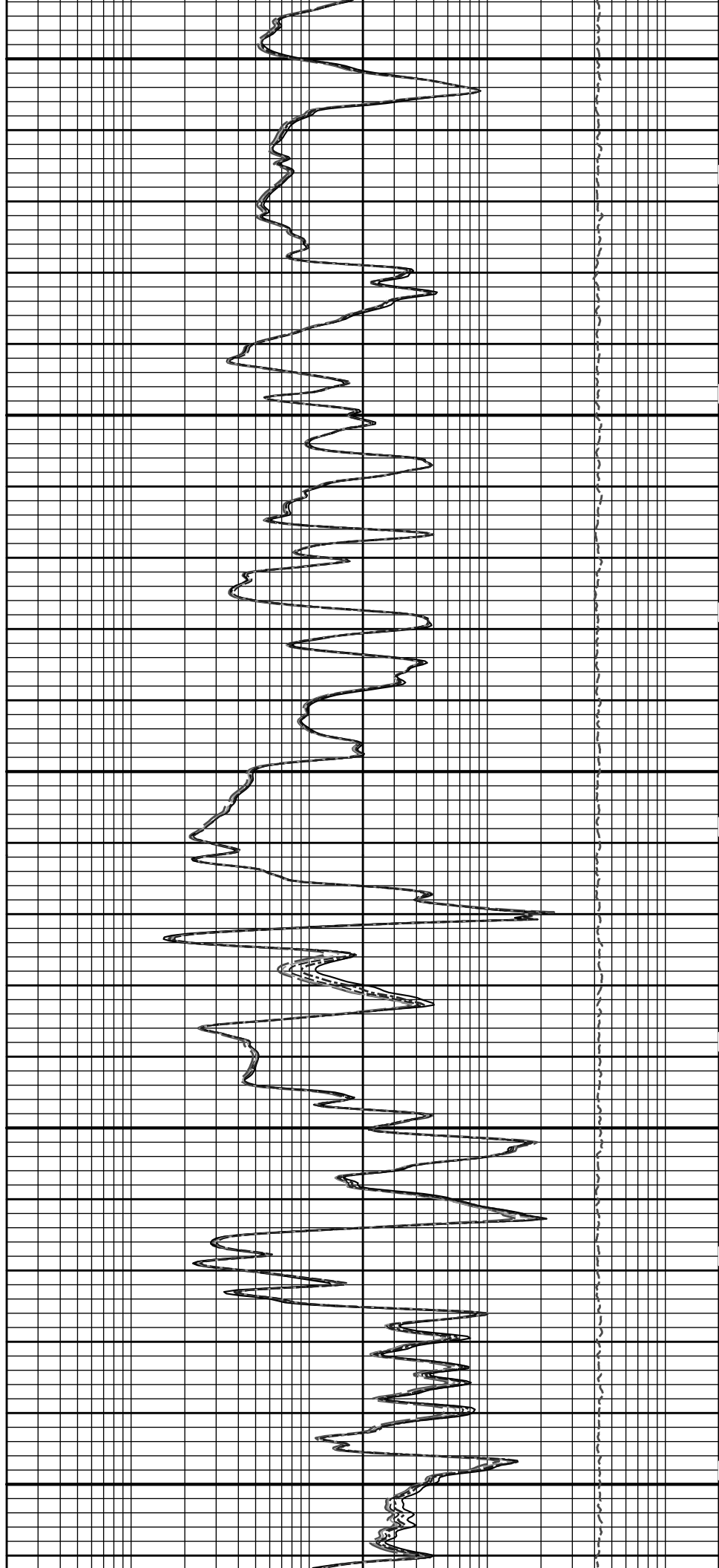


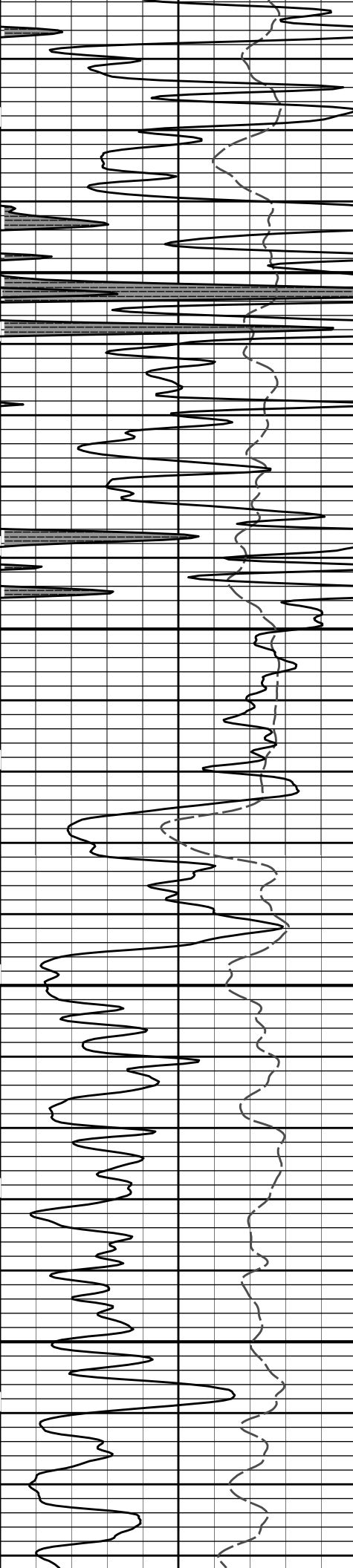


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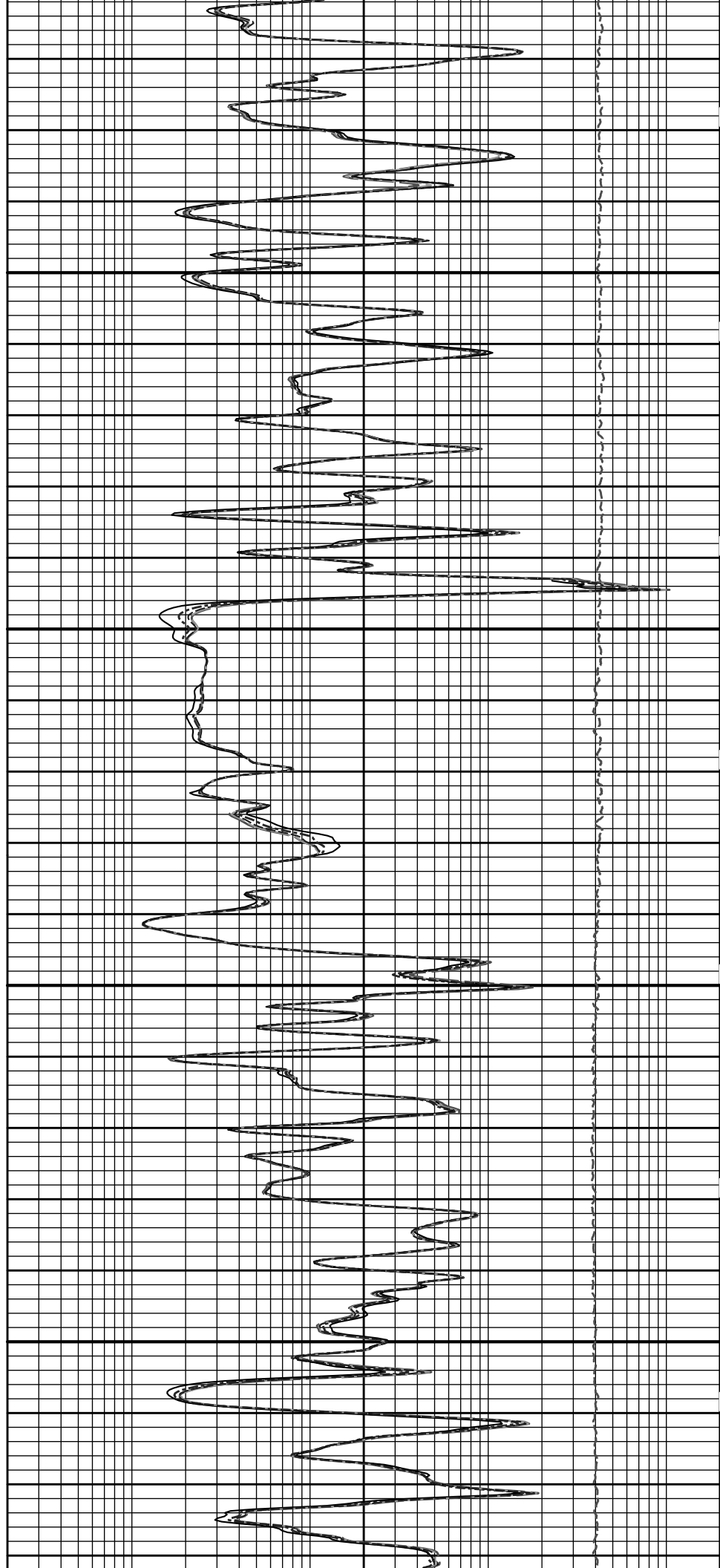
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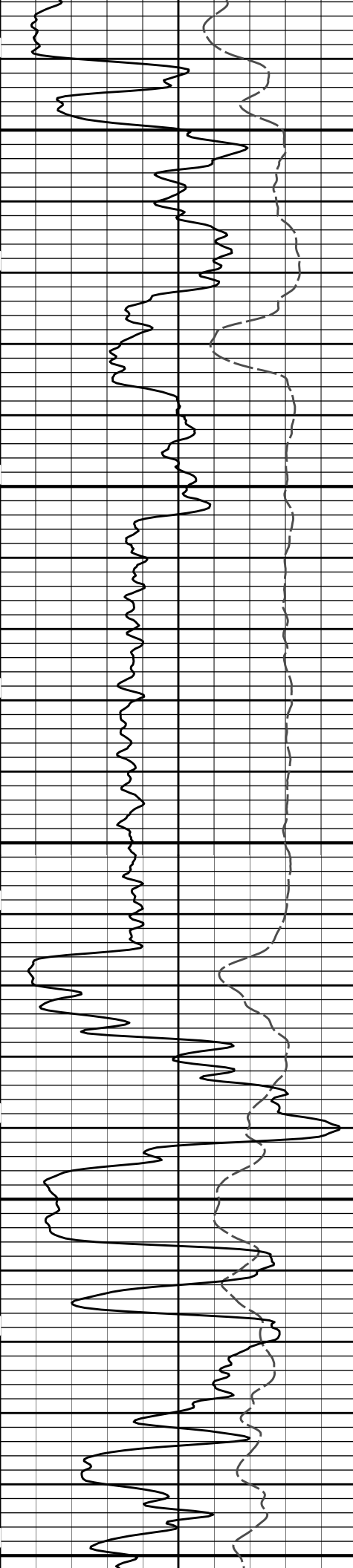




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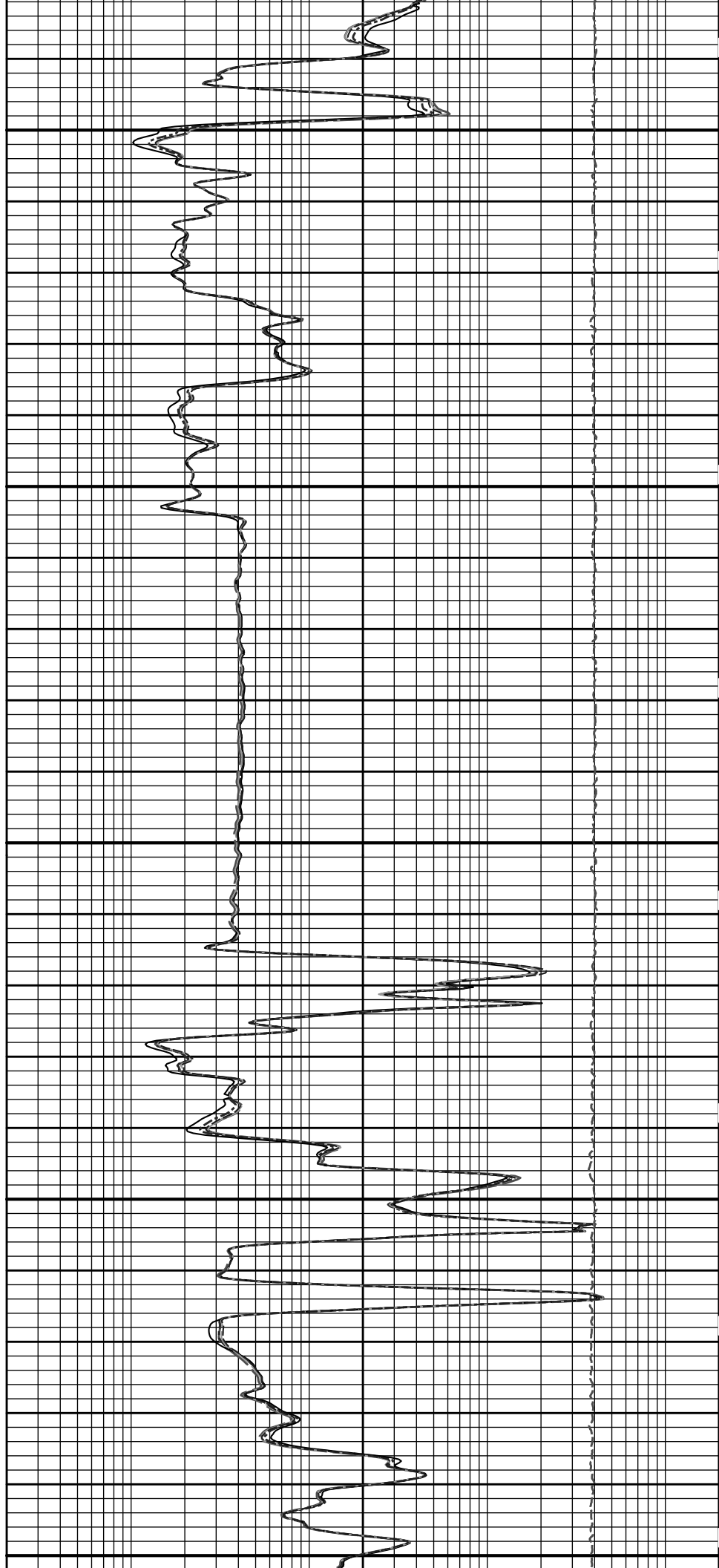
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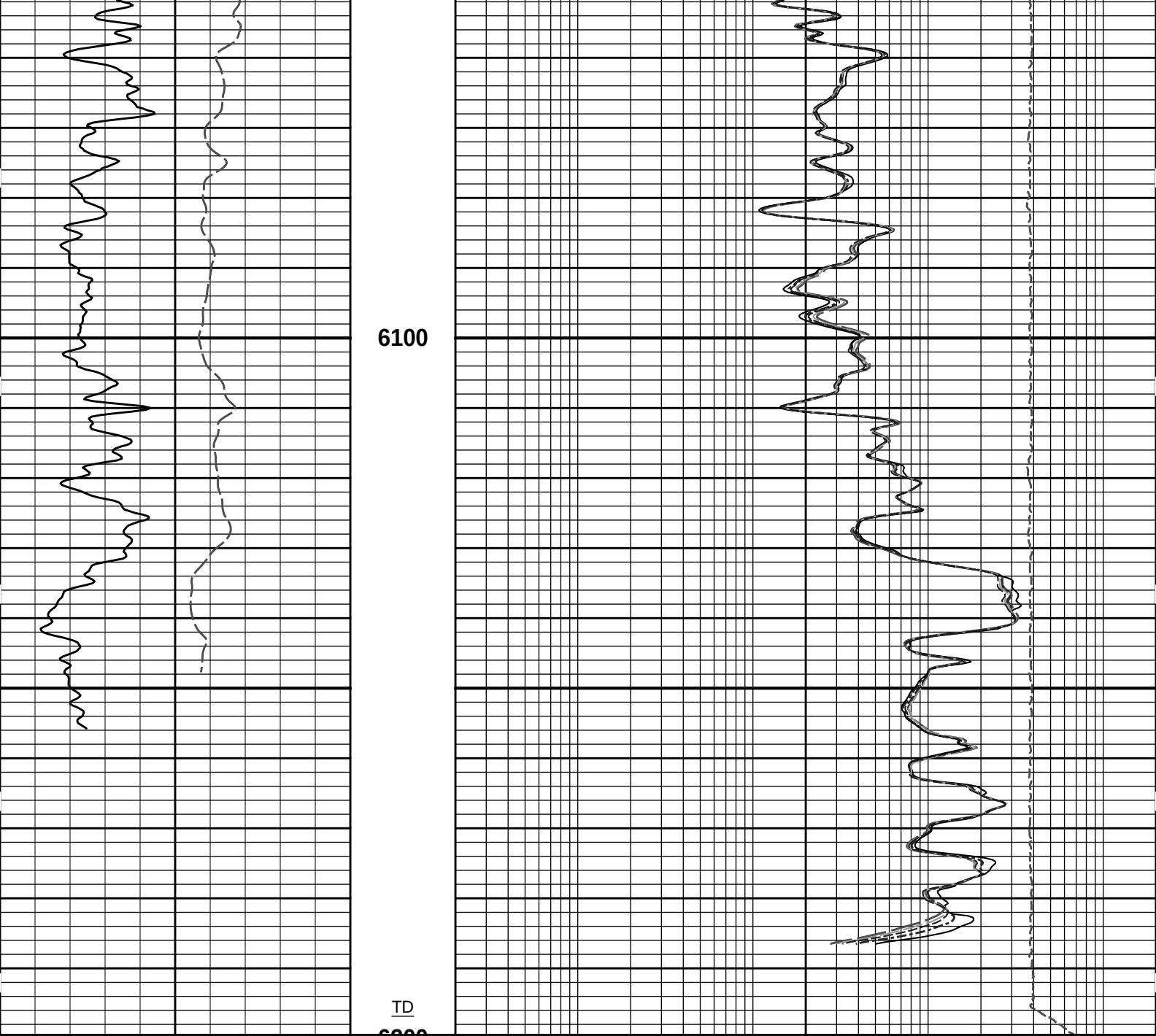




5900

6000





SP		MD 1 : 240 ft			10K	Tension	0	
-]20[+					pounds			
0	Gamma API	150	Tension Pull	10	0.2	10in Resistivity 2ft Res		2000
api					ohmm			
SHALE			Tension Pull		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: 18-Nov-12 15:46:42
Plot Range: 1600 ft to 6199.5 ft
Data: ANGELL #4-6(Well Based\ACRT\
Plot File: \\LOCAL\ANGELL #4-6(Well Based\ACRT\ACRT_5_main.lib

5 INCH MAIN LOG

HALLIBURTON

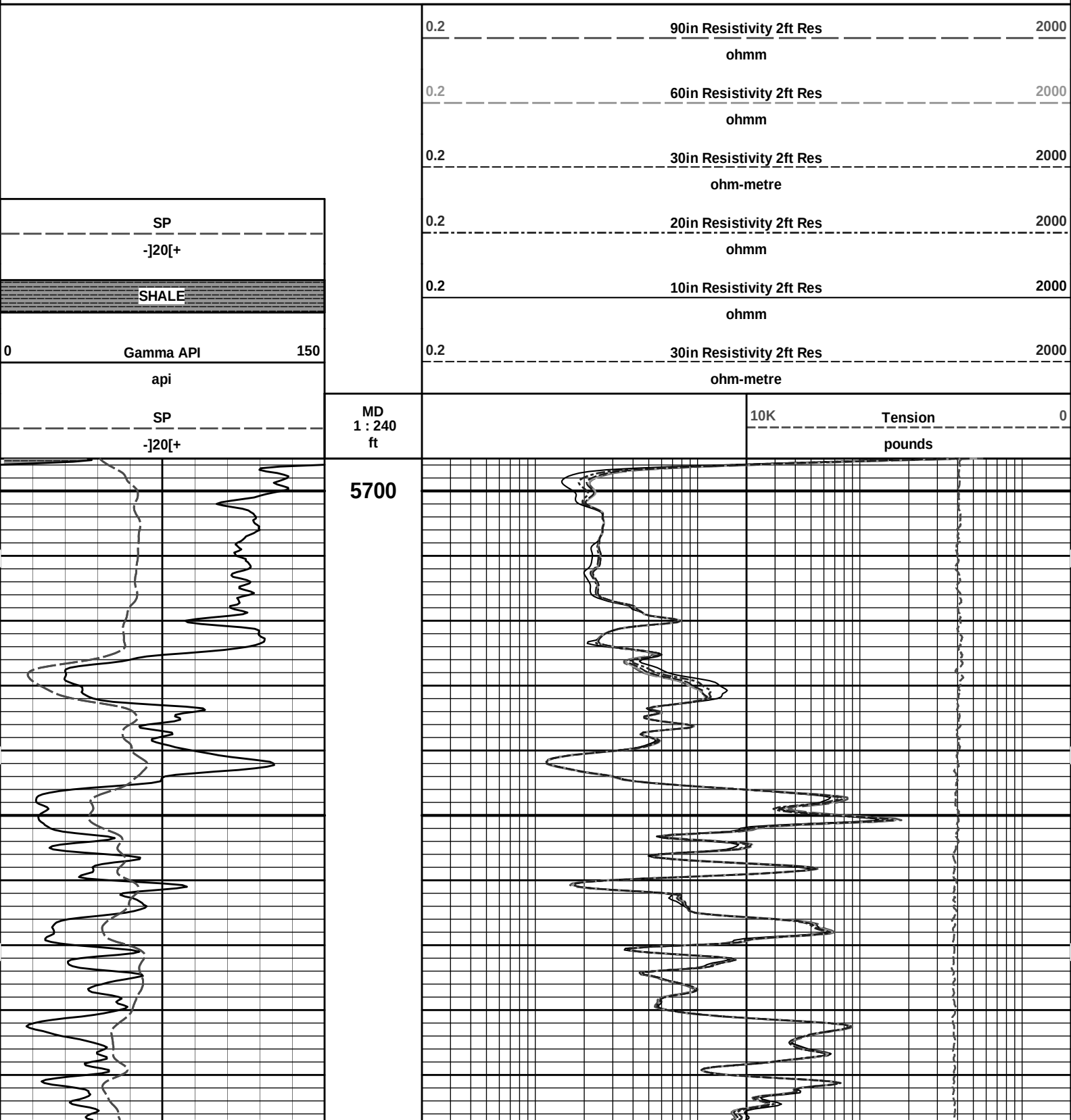
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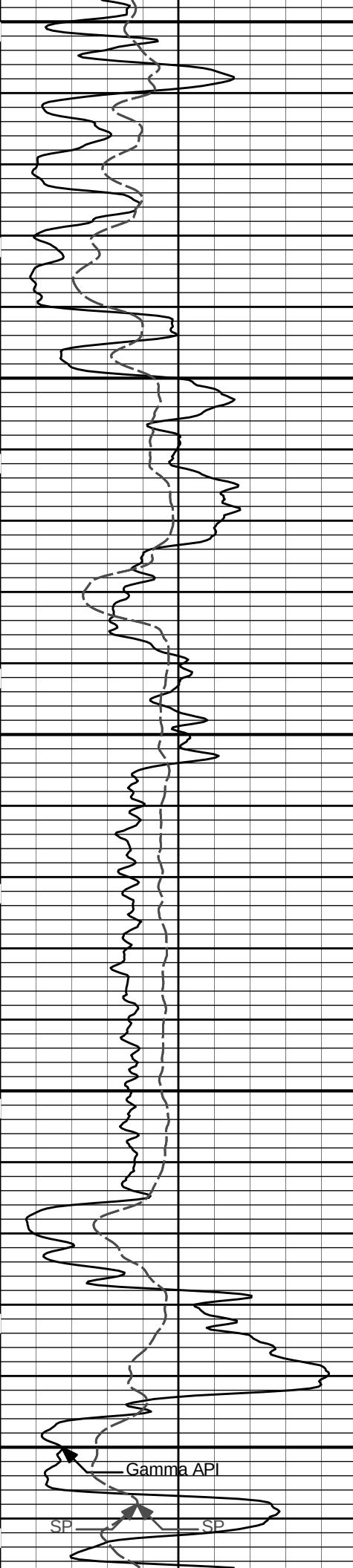
Plot Range: 5695 ft to 6201.25 ft

Data: ANGELL #4-6\\Well Based\\REPEAT\\

Plot File: \\-LOCAL-ANGELL #4-6\\Well Based\\ACRT\\ACRT_5_repeat.lib

REPEAT SECTION

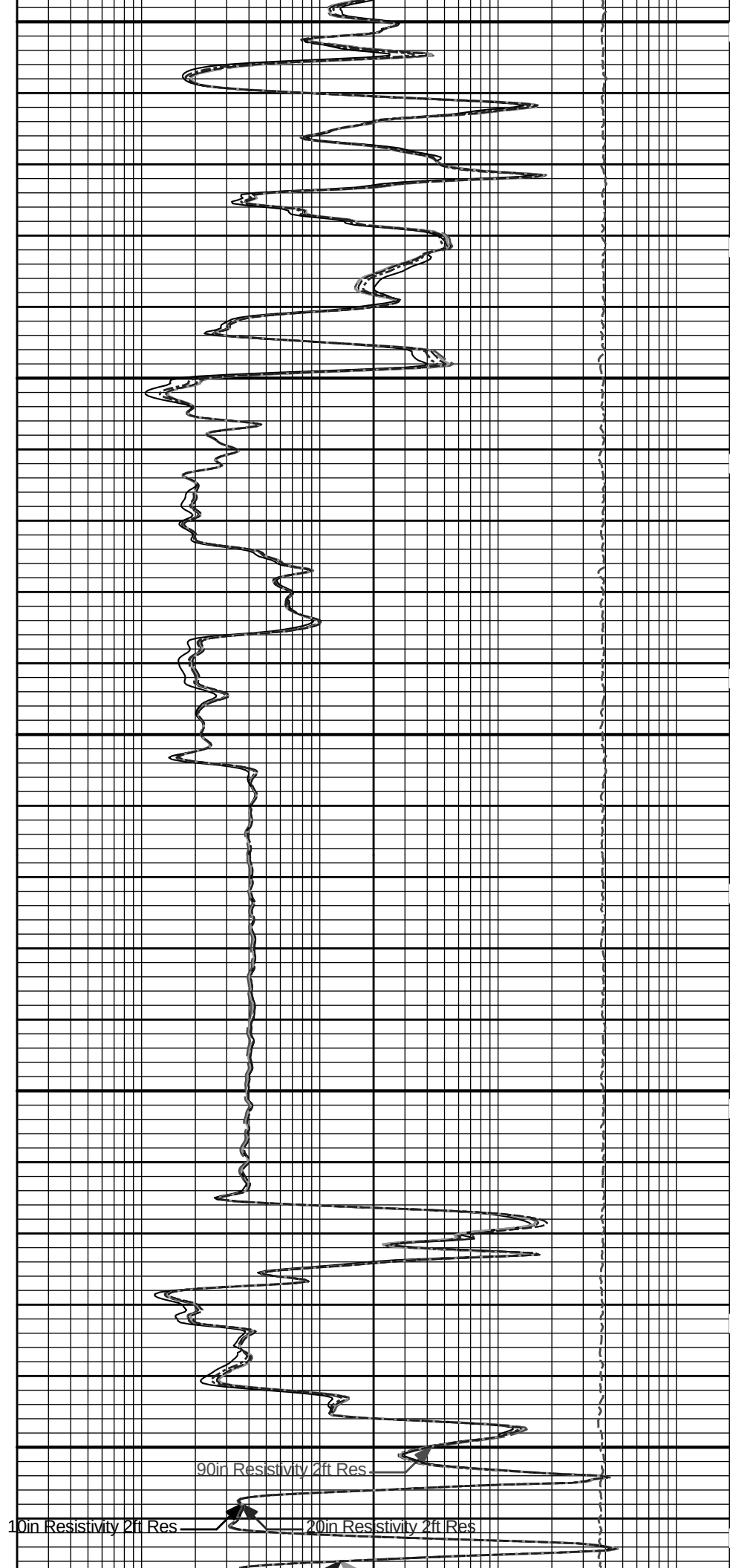




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5900

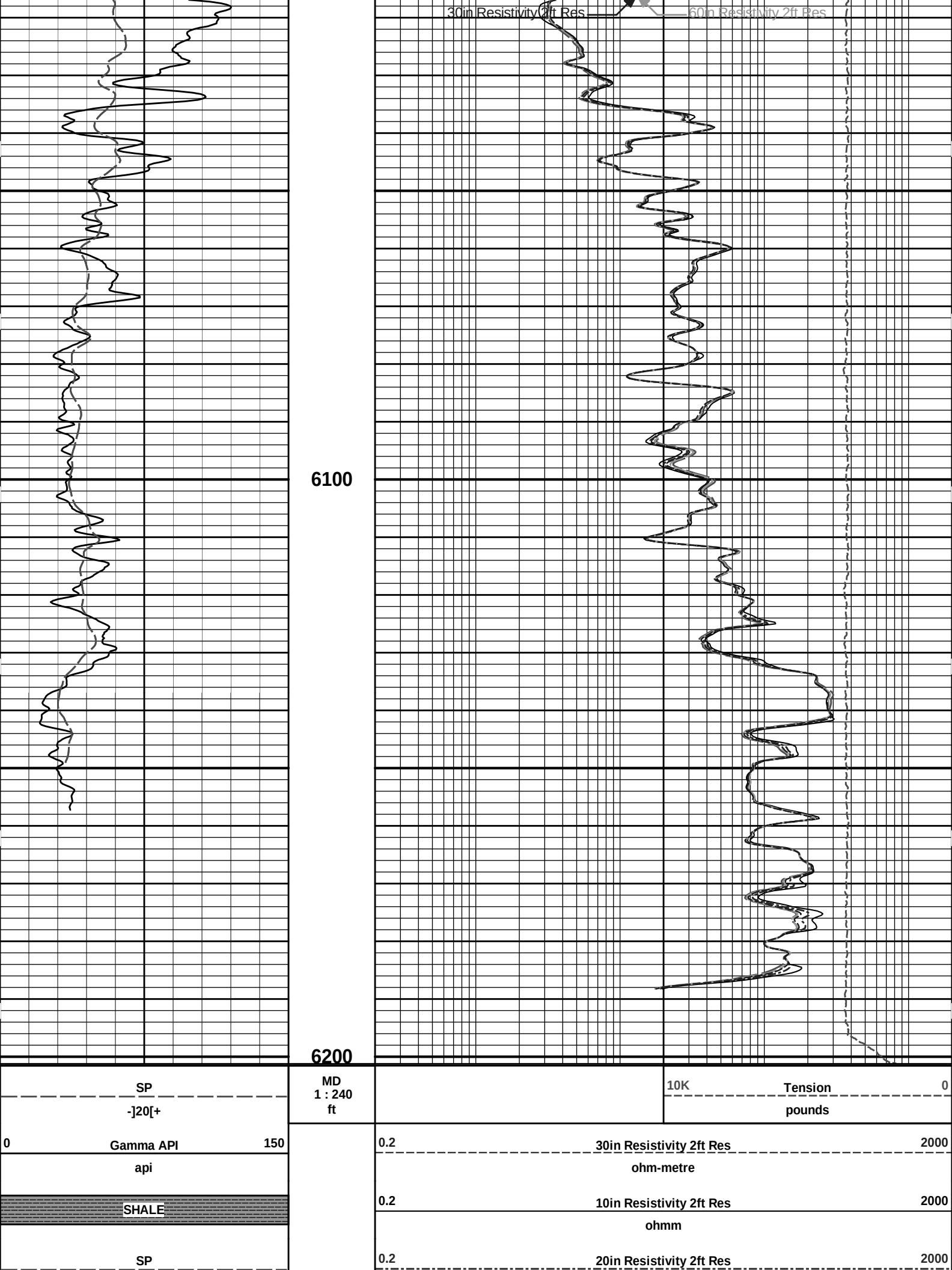
6000



90in Resistivity 2ft Res.

10in Resistivity 2ft Res.

20in Resistivity 2ft Res.



6100

6200

SP

-]20[+

Gamma API

api

SHALE

SP

MD
1 : 240
ft

10K

Tension

pounds

0.2

30in Resistivity 2ft Res

2000

ohm-metre

0.2

10in Resistivity 2ft Res

2000

ohmm

0.2

20in Resistivity 2ft Res

2000

-]20[+	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

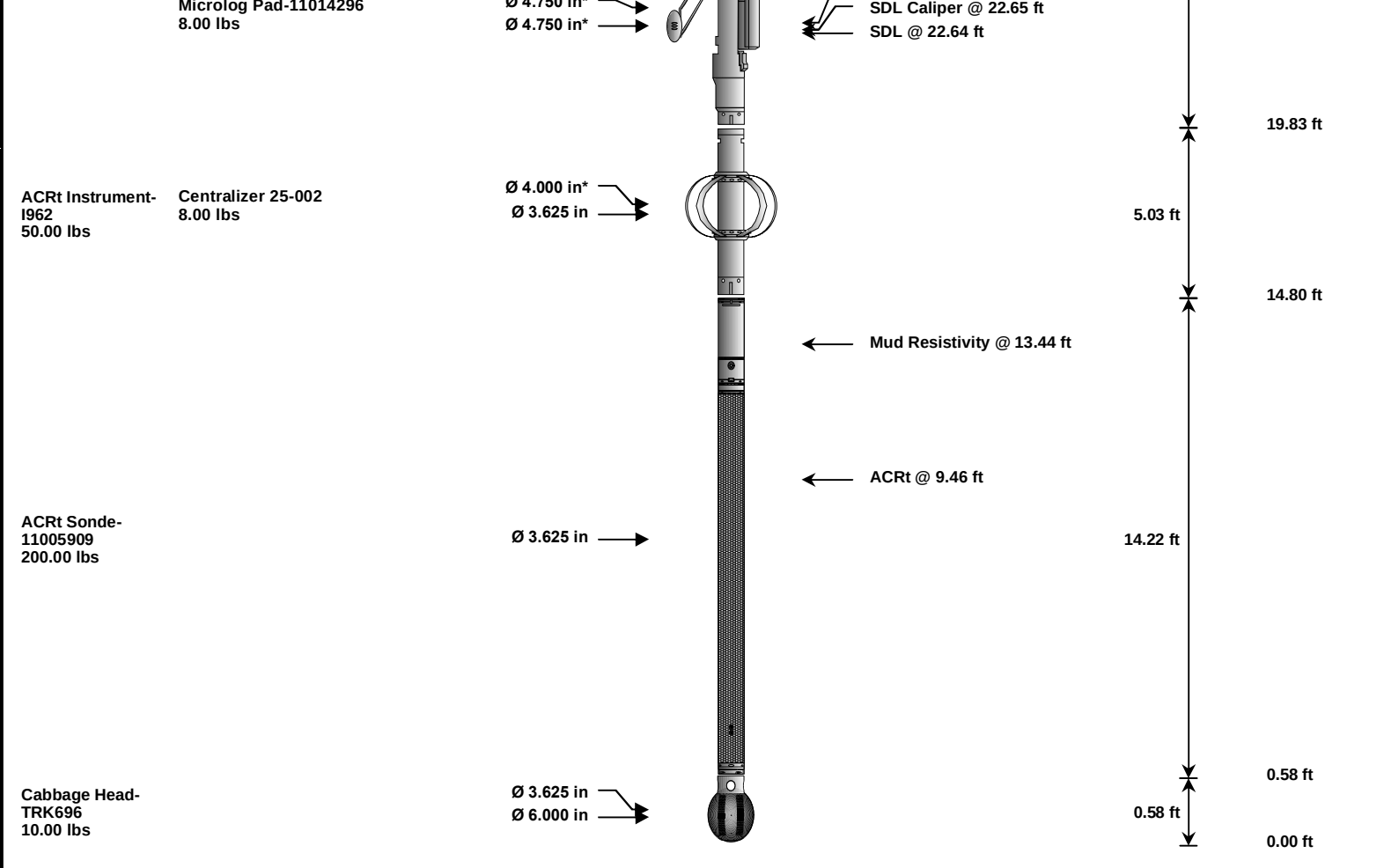
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Data: ANGELL #4-6\Well Based\REPEAT\
Plot File: \\-LOCAL-ANGELL #4-6\Well Based\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in →		← Temperature @ 54.59 ft	3.03 ft	55.62 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft
						48.85 ft
GTET-11039640 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	
						40.33 ft
DSNT-11055304 174.00 lbs	DSN Decentralizer-10755066 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	
						30.64 ft
SDLT-11014296 360.00 lbs	SDLT Pad-10865884 65.00 lbs	Ø 4.500 in →		Microlog @ 22.83 ft	10.81 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH HOS	Hostile Cable Head with Load Cell	CH 696	37.50	3.03	52.59	300.00
SP	SP Sub	11441455	60.00	3.74	48.85	300.00
GTET	Gamma Telemetry Tool	11039640	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	* 33.97	300.00
SDLT	Spectral Density Tool	11014296	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	10865884	65.00	2.55	* 22.04	60.00
MICP	Microlog Pad	11014296	8.00	1.00	* 22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	I962	50.00	5.03	14.80	300.00
OBCEN	Centralizer - 25 in. Overbody	002	8.00	2.08	* 16.44	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.58	300.00
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00
Total			1,144.10	55.62		
						* Not included in Total Length and Length Accumulation.
Data: ANGELL #4-610001 SP-GTET-DSN-SDL-ACRT-CHIDLE					Date: 18-Nov-12 10:58:28	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11039640	Reference Calibration Date:	25-Sep-12 15:48:12
Engineer:	T. HYDE	Calibration Date:	02-Nov-12 10:48:45
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Calibrator Source S/N: TB146
 Calibrator API Reference:265.00 api
 Equivalent Calibrator API Reference:269.6 api

Equivalent Calibrator API Reference:269.6 api									
		Measurement		Measured		Calibrated		Units	
		Background		63.1		62.7		api	
		Background + Calibrator		334.4		332.3		api	
		Calibrator		271.3		269.6		api	
NATURAL GAMMA RAY TOOL FIELD CALIBRATION									
Tool Name: GTET - 11039640				Reference Calibration Date: 02-Nov-12 10:48:45					
Engineer: S. INGERSOLL				Calibration Date: 18-Nov-12 07:44:32					
Software Version: WL INSITE R3.6.0 (Build 3)				Calibration Version: 1					
Calibrator Source S/N: TB146									
Calibrator API Reference:265.00 api									
Equivalent Calibrator API Reference:269.6 api									
		Field Verification		Shop		Field		Units	
		Background		62.7		62.8		api	
		Background + Calibrator		332.3		328.1		api	
		Calibrator		269.6		265.2		api	
		Shop		Field		Difference		Tolerance	
		269.6		265.2		4.4		+/- 9.00	
ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name: ACRt Sonde - 11005909				Reference Calibration Date: 26-Sep-12 12:26:10					
Engineer: T. HYDE				Calibration Date: 15-Oct-12 16:05:46					
Software Version: WL INSITE R3.6.0 (Build 3)				Calibration Version: 1					
Host Tool Name: ACRt Instrument - I962									
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.03	1.05	0.95	1.03	1.05	0.95	1.03	1.05
A2 (50")	0.95	1.01	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.00	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.00	1.05	0.95	1.01	1.05	0.95	1.01	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	-0.82	2	-6	-3.54	-2	-8	-5.05	-2
A2 (50")	-7	-1.63	0	-7	-3.43	0	-7	-4.41	0
A3 (29")	-27	-14.61	-9	-9	-4.60	-3	-7	-2.75	-1
A4 (17")	-180	-100.67	-60	-45	-30.62	-15	-39	-25.76	-13
A5 (10")	N/A	N/A	N/A	-150	-99.39	-50	-80	-44.86	-10
A6 (6")	N/A	N/A	N/A	175	286.49	525	90	151.92	270
TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)	
12K	0.6	0.93	1.3		Mud Cell	0.95	1.00	1.05	
36K	1.0	1.37	2.0						
72K	1.0	1.59	2.0						

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-11039640						
Gamma Ray Calibrator	269.6	265.2	-----	4.4	+/- 9.00	api
ACRt Sonde-11005909						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: ANGELL #4-6I0001 SP-GTET-DSN-SDL-ACRT-CHI004 18-Nov-12 13:04 Up @6199.5f					Date: 18-Nov-12 14:35:02	
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	9.200	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	6200.00	ft	
	SHARED	BHT	Bottom Hole Temperature	135.0	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	

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
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	

GTEP				
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 Reference 12 KHz Real Signal	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

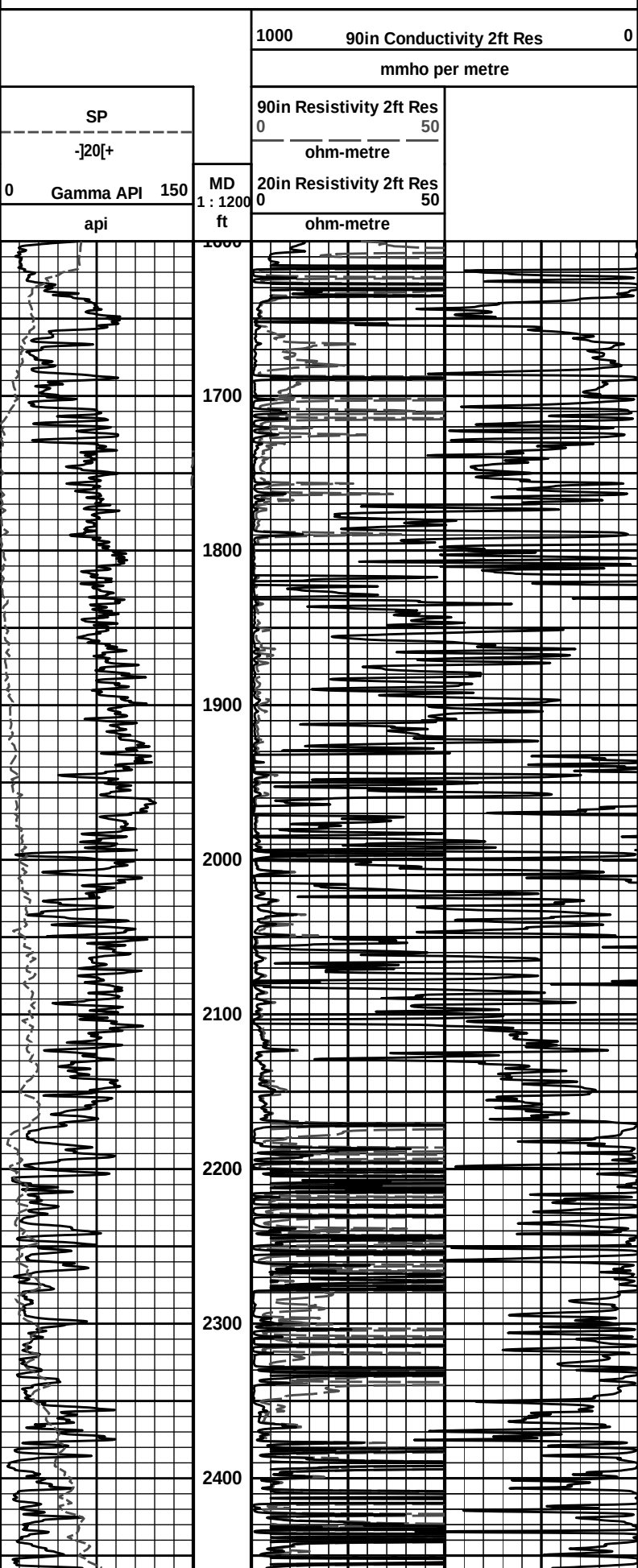
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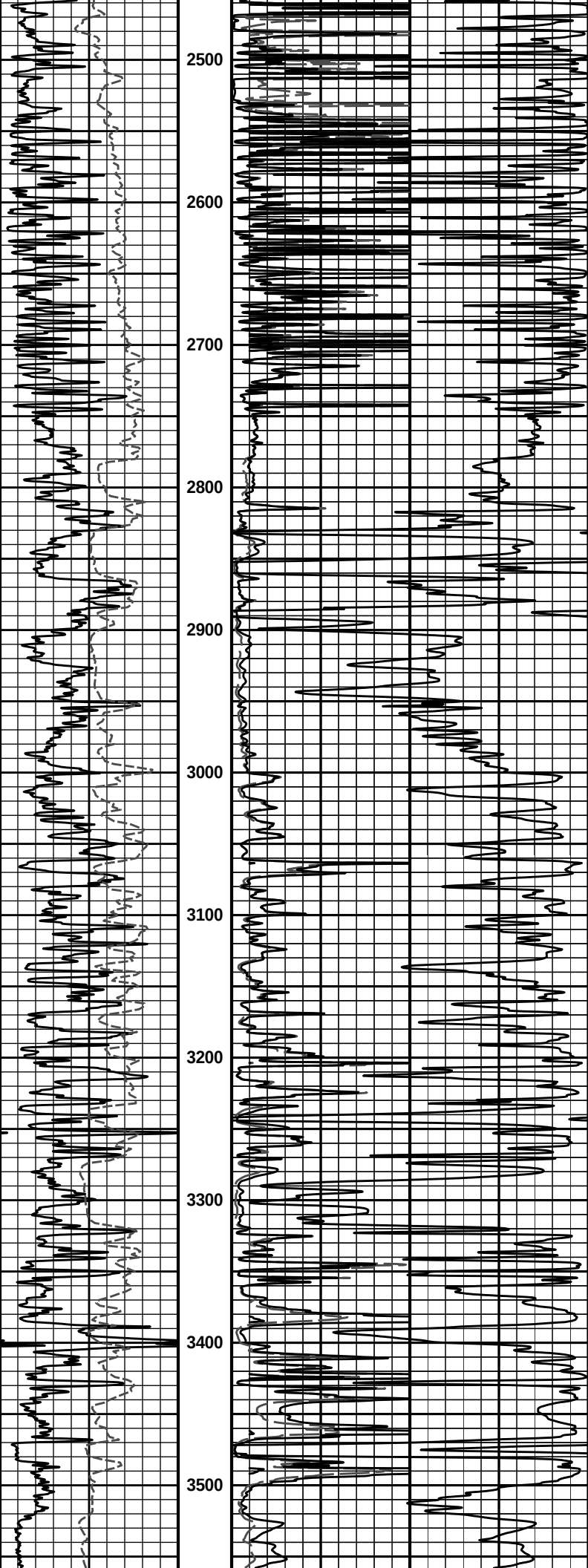
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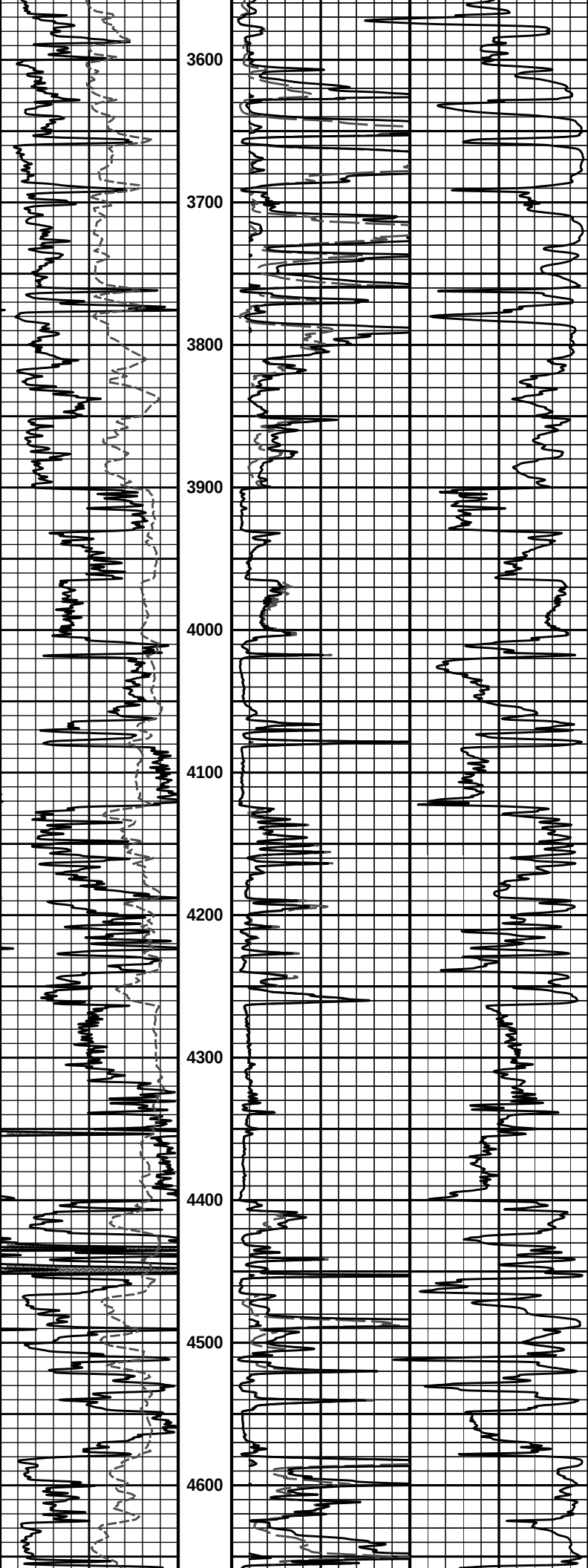
HALLIBURTON

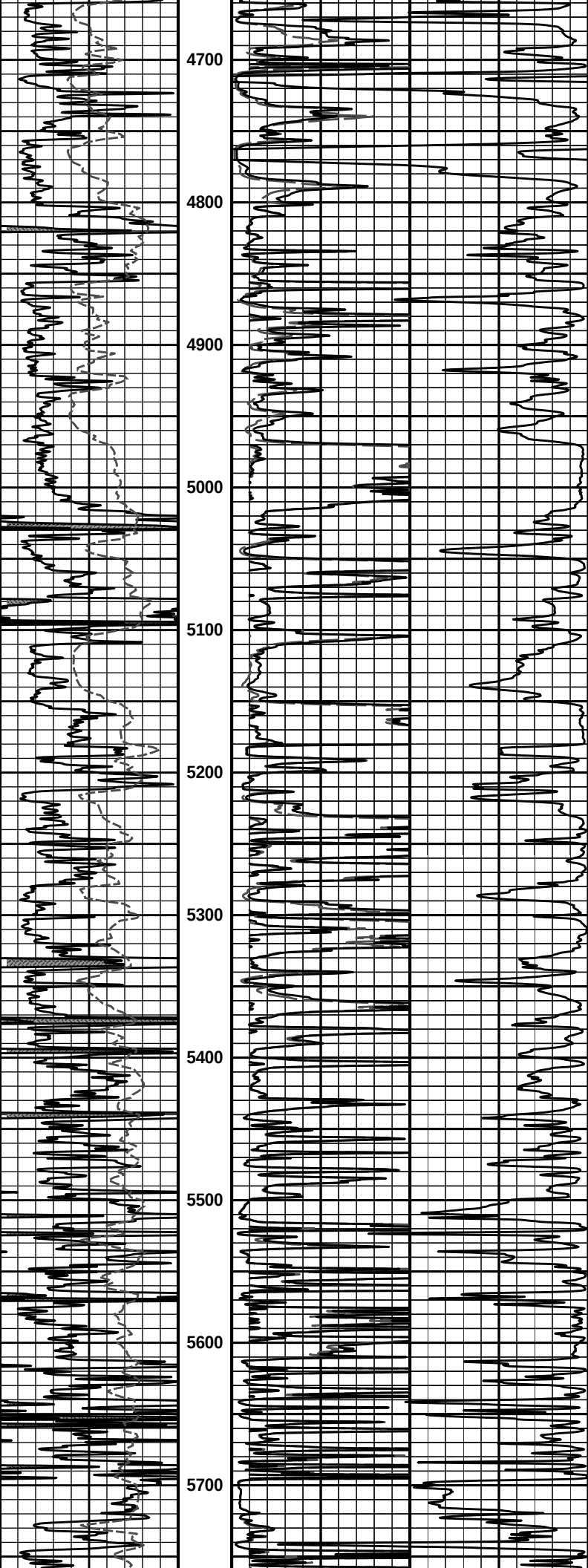
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Plot Range: 1600 ft to 6186.5 ft
Data: ANGELL #4-6I Well Based ACRT

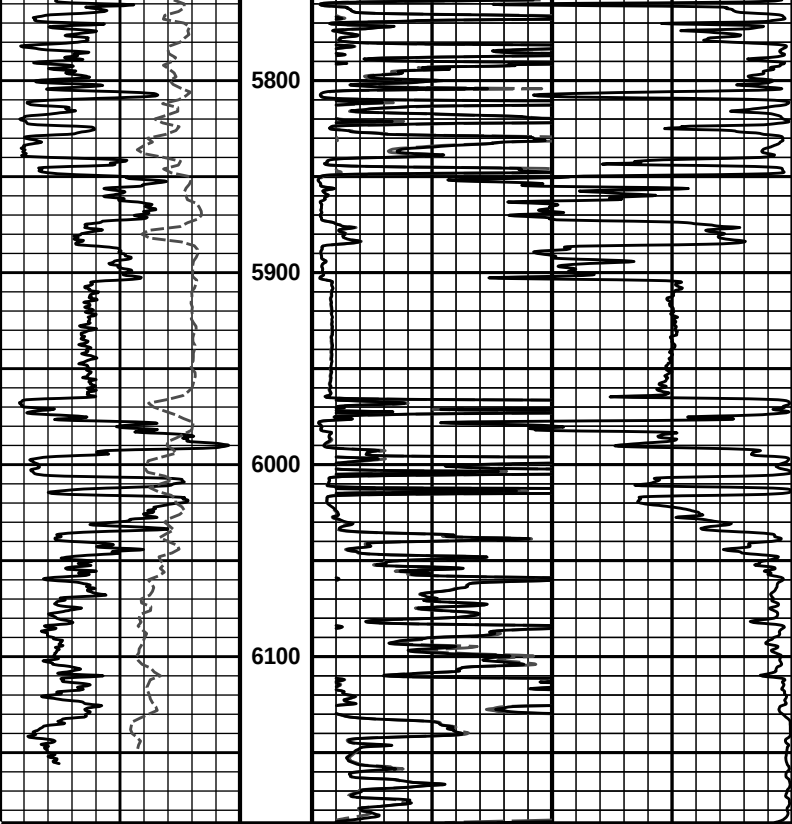
1 INCH MAIN LOG











0	Gamma API	150	MD 1 : 1200 ft	20in Resistivity 2ft Res	
				0 50	
	api			ohm-metre	
	SP			90in Resistivity 2ft Res	
	- 20 +			0 50	
				ohm-metre	
				1000	90in Conductivity 2ft Res
					0
					mmho per metre

HALLIBURTON

Plot Time: 18-Nov-12 15:46:57
Plot Range: 1600 ft to 6186.5 ft
Data: ANGELL #4-6\Well Based\ACRT\
Plot File: \\-LOCAL-ANGELL #4-6\Well Based\ACRT\ACRT_1.lib

1 INCH MAIN LOG

COMPANY	EVANS ENERGY LLC.		
WELL	ANGELL #4-6		
FIELD	ANGELL		
COUNTY	MEADE	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISITIVITY LOG	