

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

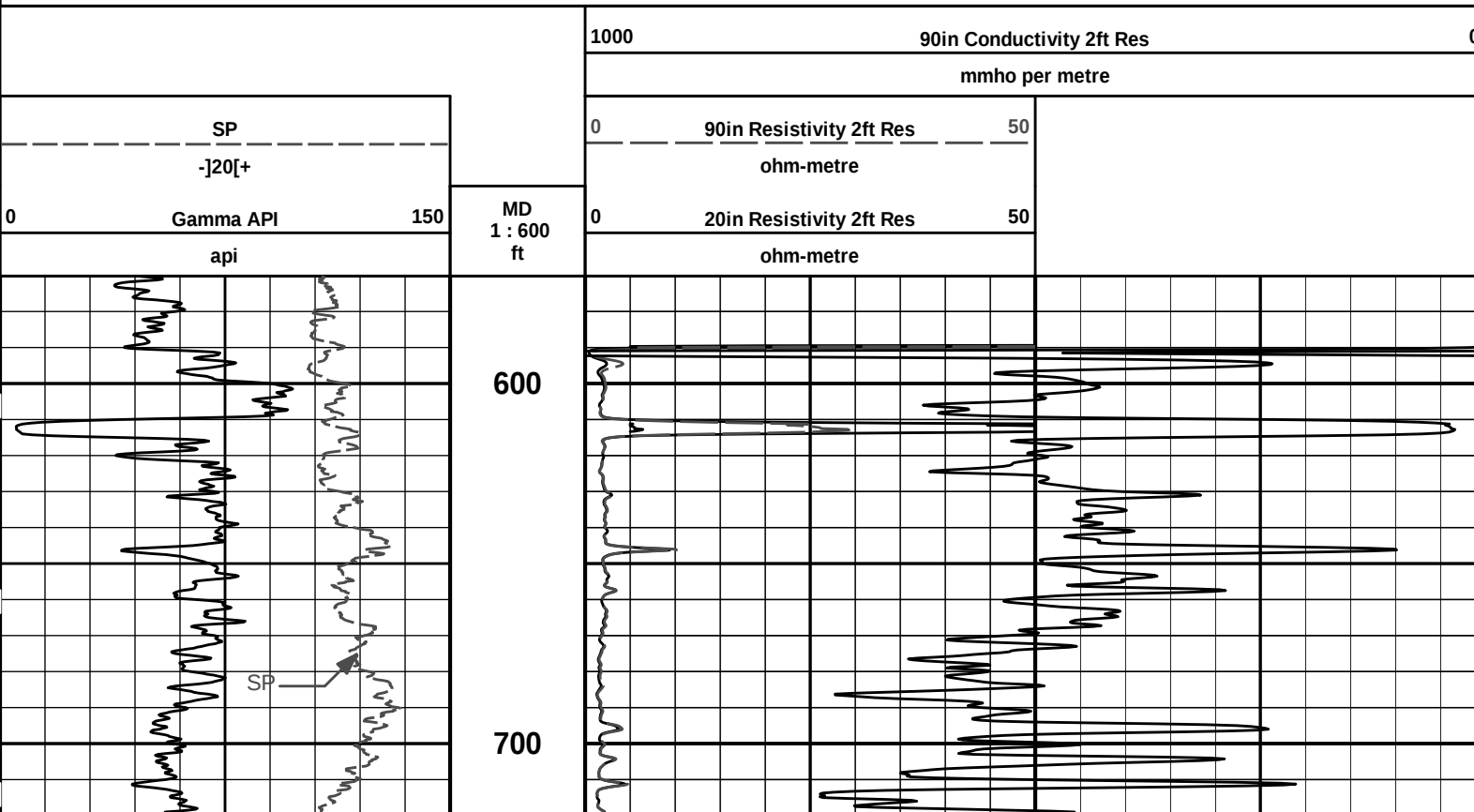
COMPANY		HERMAN L. LOEB, LLC	
WELL		BLESSED ACRES 2-18	
FIELD/BLOCK		WILDCAT	
COUNTY		KIOWA	
STATE		KANSAS	
Permanent Datum		GL	
Log measured from		KB	
Drilling measured from		KB	
Date		23-May-13	
Run No.		ONE	
Depth - Driller		4925.00 ft	
Depth - Logger		4925.0 ft	
Bottom - Logged Interval		4915.0 ft	
Top - Logged Interval		592.0 ft	
Casing - Driller		8.625 in @ 584.0 ft	
Casing - Logger		592.0 ft	
Bit Size		7.875 in @	
Type Fluid in Hole		WATER BASED	
Density		9.2 ppg 66.00 s/qt	
PH		9.50 pH 11.6 cp/m	
Source of Sample		MUD PIT	
Rm @ Meas. Temperature		0.570 ohmm @ 75.00 degF @	
Rmf @ Meas. Temperature		0.50 ohmm @ 75.00 degF @	
Rmc @ Meas. Temperature		0.700 ohmm @ 75.00 degF @	
Source Rmf		MEASURED	
Rm @ BHT		0.29 ohmm @ 118.0 degF @	
Time Since Circulation		4.0 hr	
Time on Bottom		23-May-13 12:49	
Max. Rec. Temperature		118.0 degF @ 4925.0 ft @	
Equipment		10782954 LIBERAL	
Recorded By		J. BOLLOW	
Witnessed By		J. HALL	

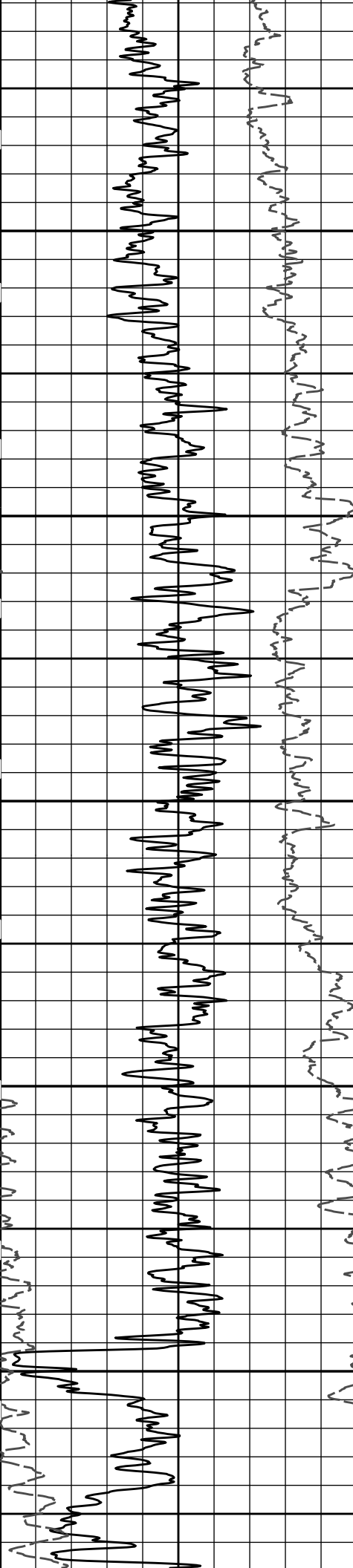
COMPANY	HERMAN L. LOEB, LLC
WELL	BLESSED ACRES 2-18
FIELD/BLOCK	WILDCAT
COUNTY	KIOWA
STATE	KANSAS
API No.	15-097-21754-00-00
Location	(SHL) 335' FSL & 1022' FEL NW SW SE SE
Sect. 18	Twp. 27S
Rge. 18W	
Other Services:	MICROLOG DSNT, SDLT BSAT

Fold here

Service Ticket No.: 900456647				API Serial No.: 15-097-21754-00-00				PGM Version: WL INSITE R3.8.4 (Build 5)							
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.		N/A	
Rmc @ Meas. Temp.		@		@				1776_S775							
Source Rmf		Rmc													
Rm @ BHT		@		@											
Rmf @ BHT		@		@											
Rmc @ BHT		@		@											
EQUIPMENT DATA															
GAMMA				ACOUSTIC				DENSITY				NEUTRON			
Run No.		ONE		Run No.				Run No.				Run No.			
Serial No.		10811258		Serial No.				Serial No.				Serial No.			
Model No.		GTET		Model No.				Model No.				Model No.			
Diameter		3.625"		No. of Cent.				Diameter				Diameter			
Detector Model No.		GTET		Spacing				Log Type				Log Type			
Type		SCINT						Source Type				Source Type			
Length		8'		LSA [Y/N]				Serial No.				Serial No.			
Distance to Source		10'		FWDA [Y/N]				Strength				Strength			
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	4925	592	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING														
CHLORIDES REPORTED AT 5,200 PPM														
LCM REPORTED AT 1 LB/BBL														
GTET-DSNT-SDLT-ACRT RUN IN COMBINATION														
GTET-BSAT RUN IN COMBINATION														
TODAY'S CREW: V. JAIME & J. ALBRIGHT														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
HALLIBURTON														





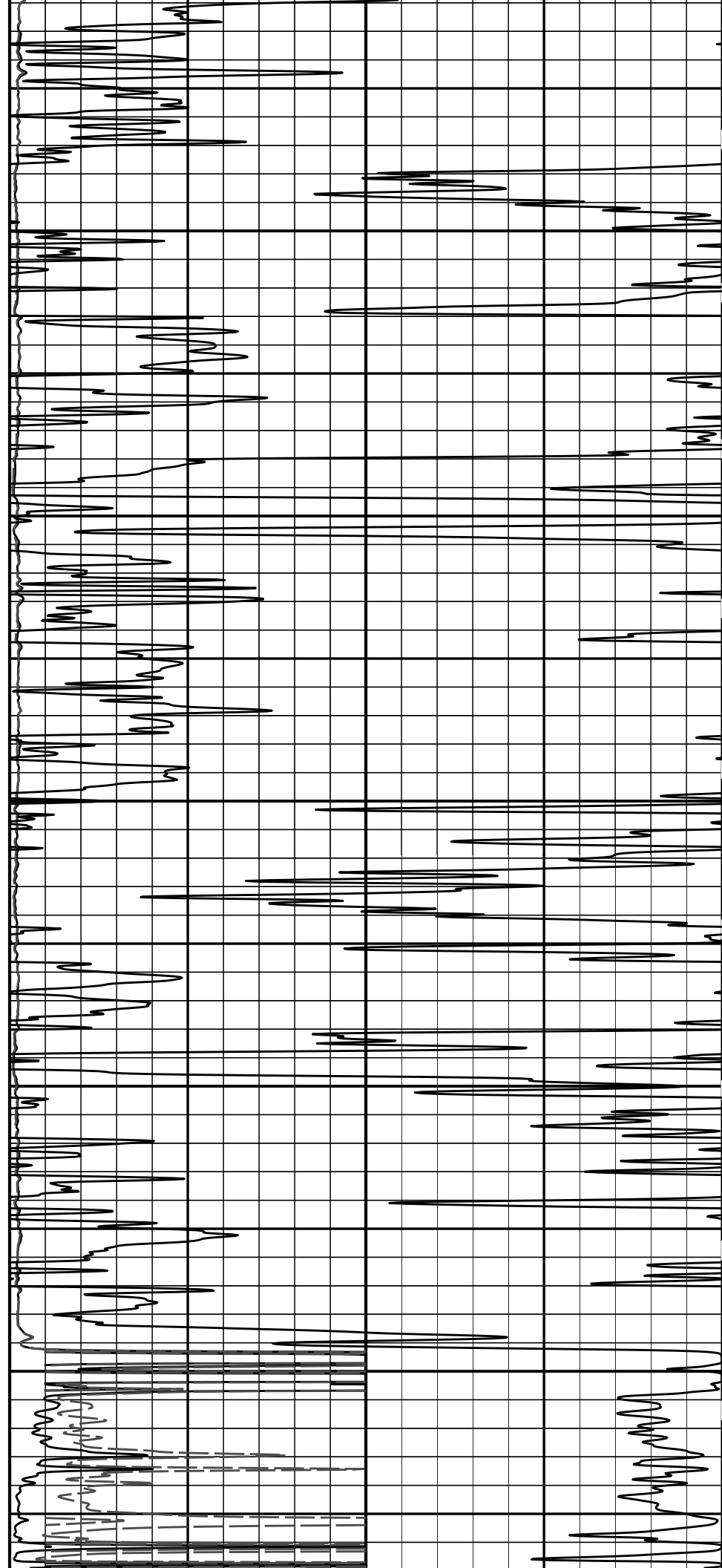
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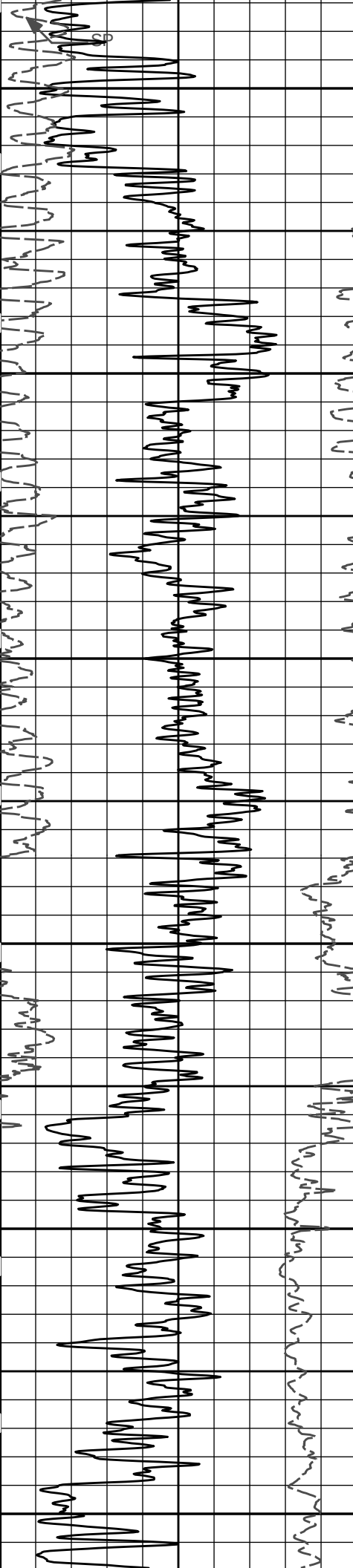
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1100

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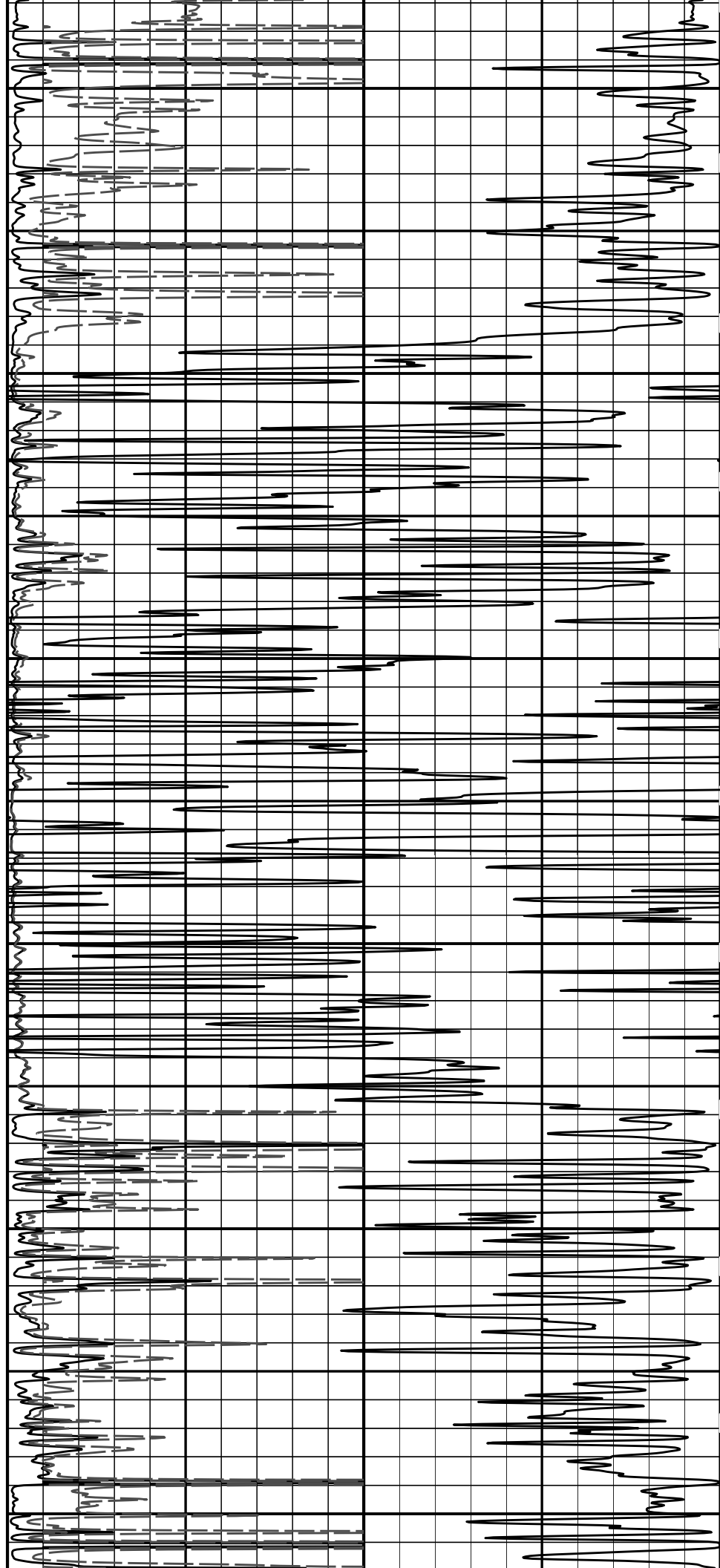
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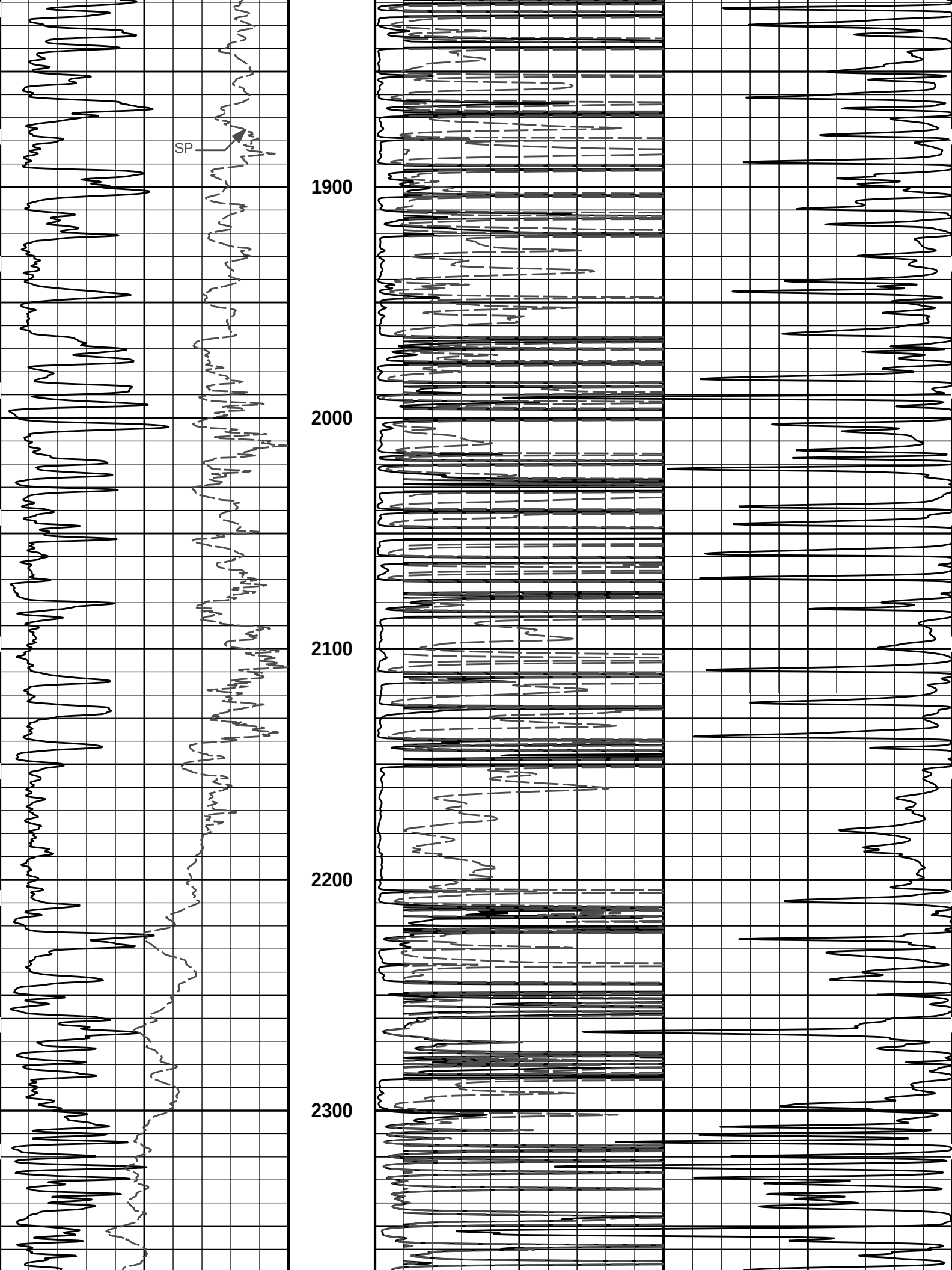
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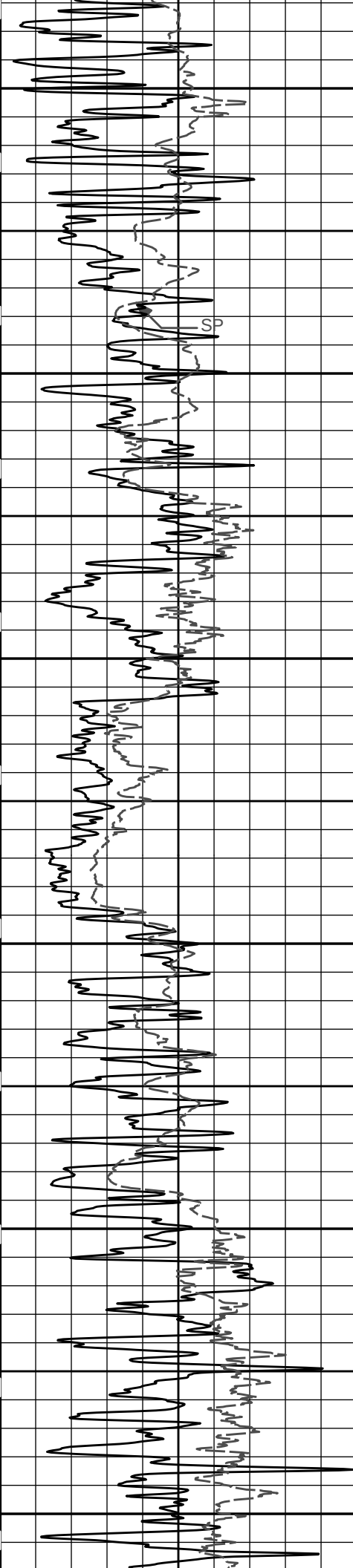
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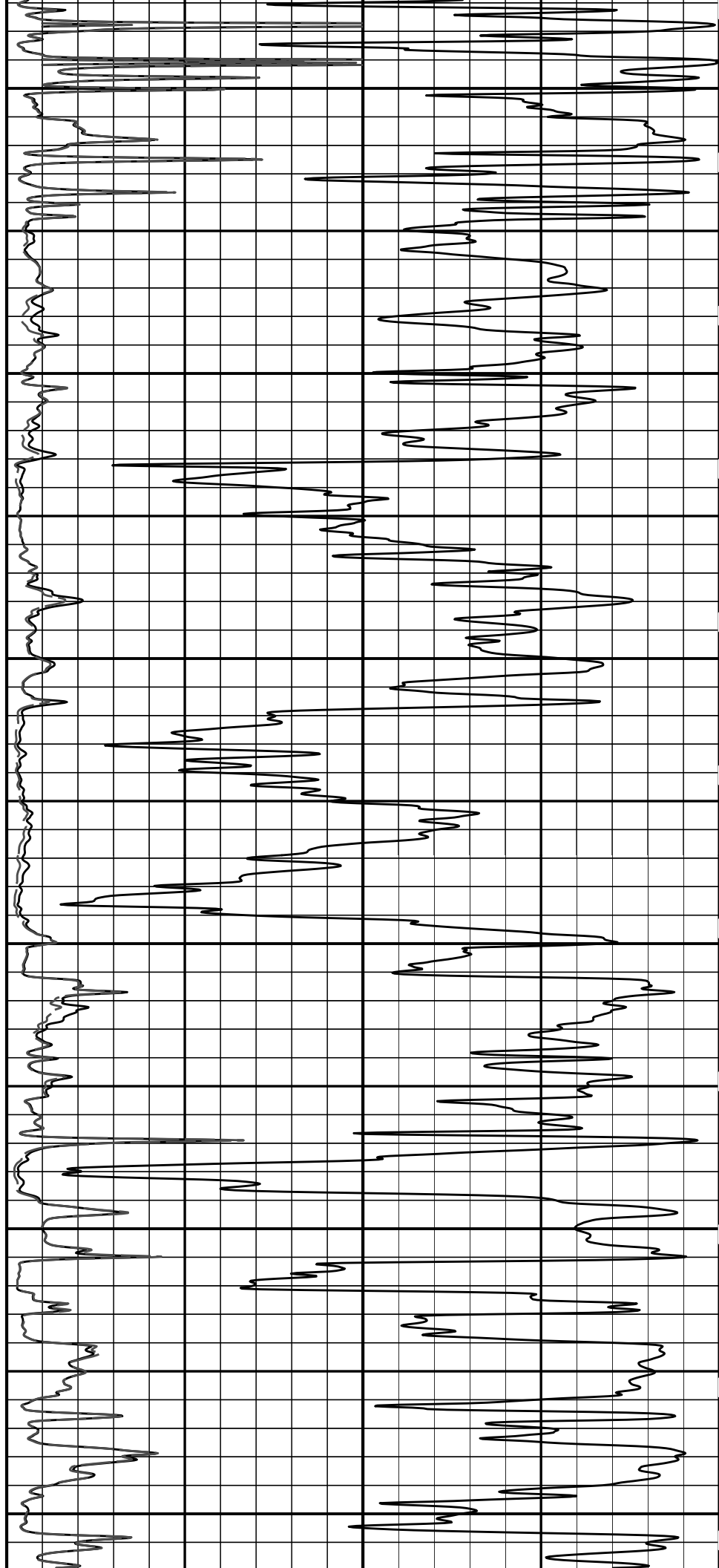
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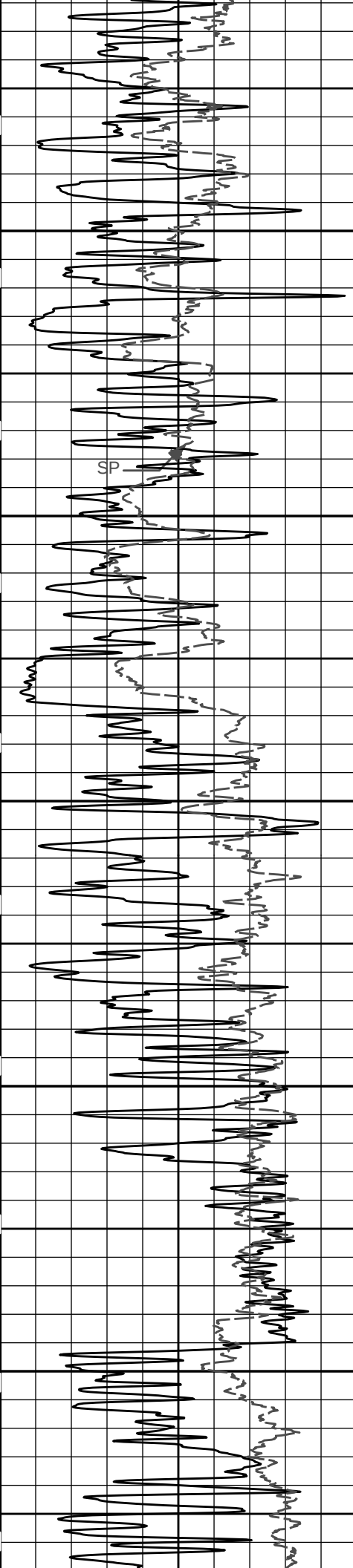
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2900





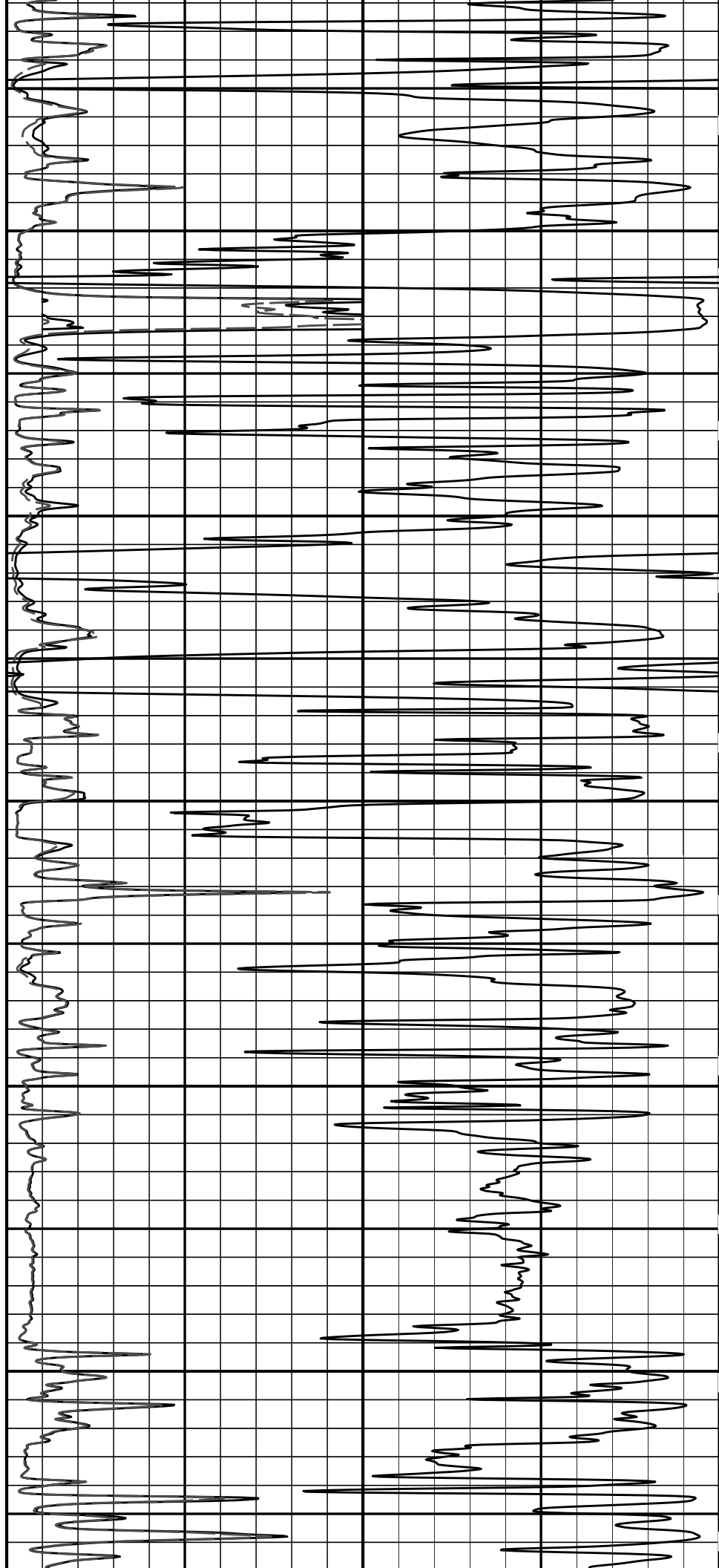
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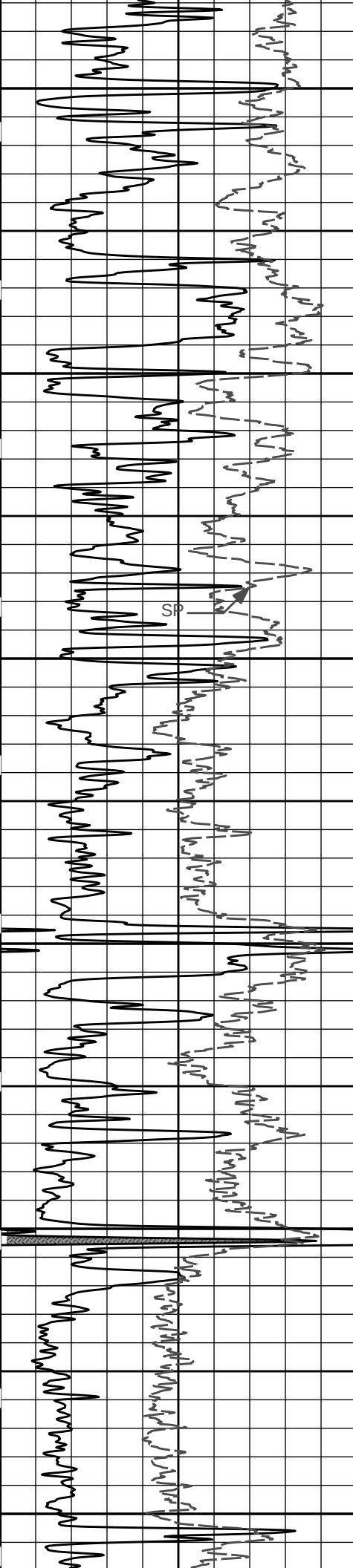
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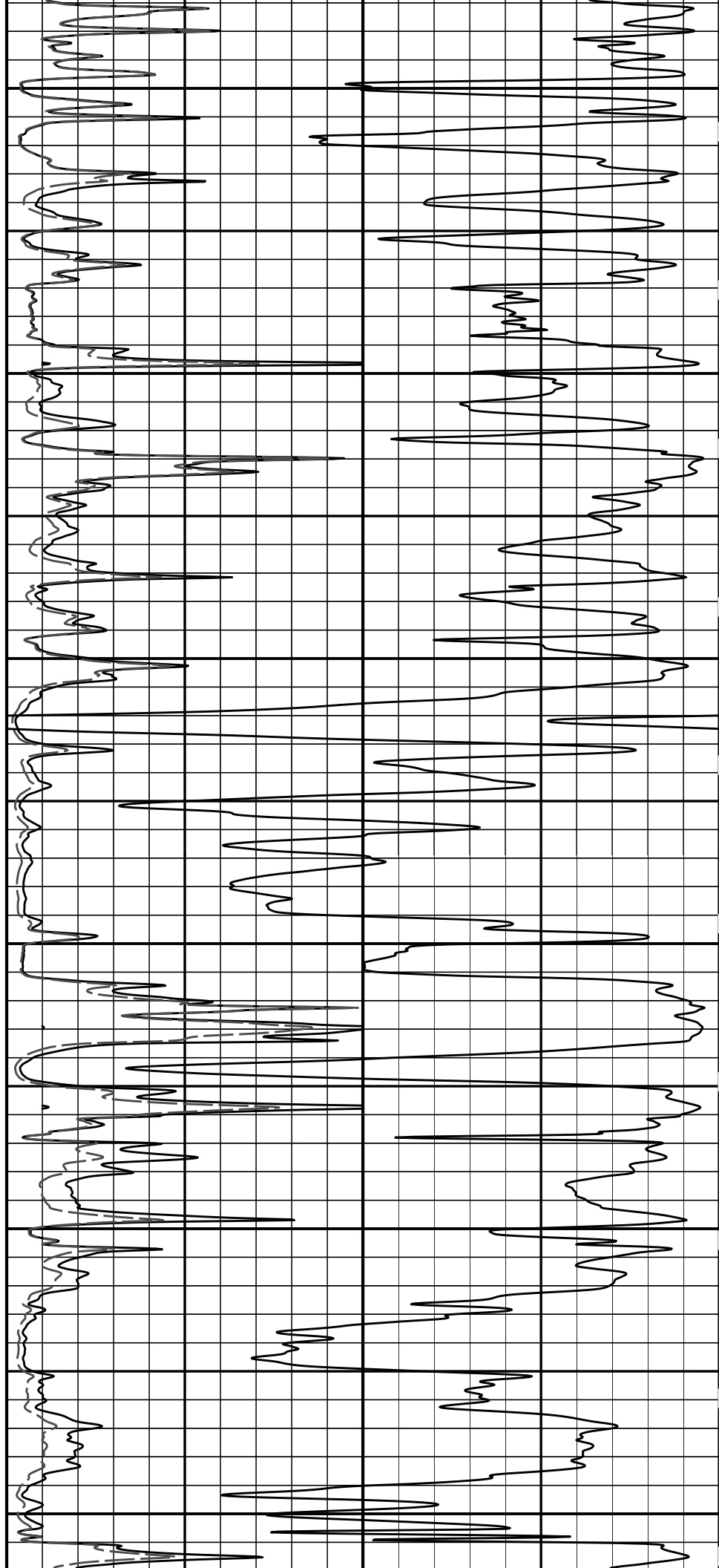
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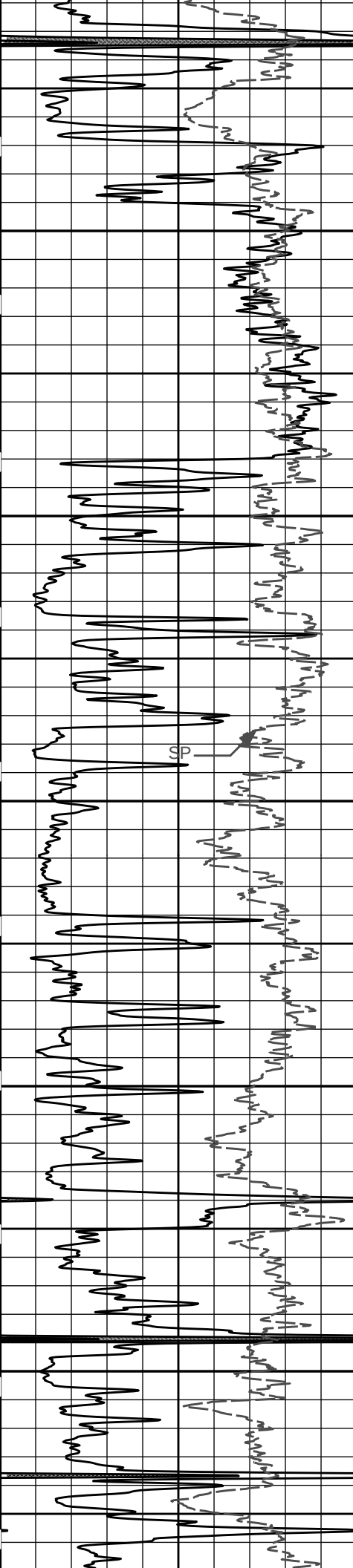
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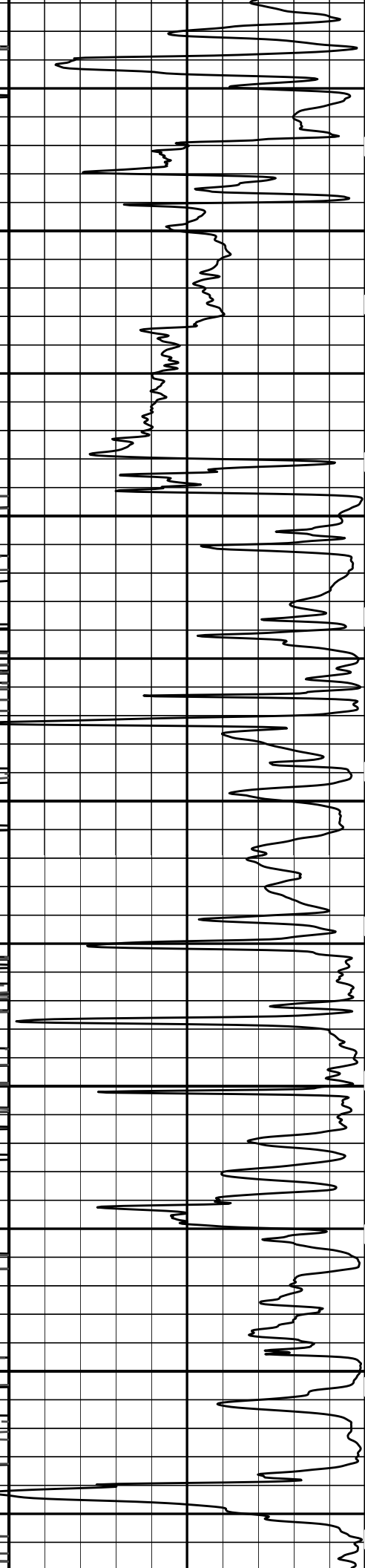
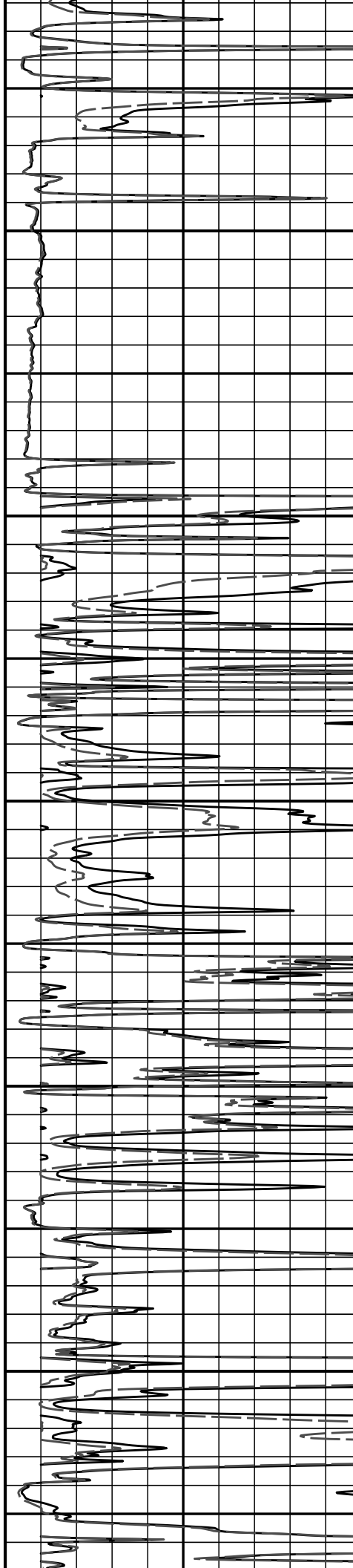
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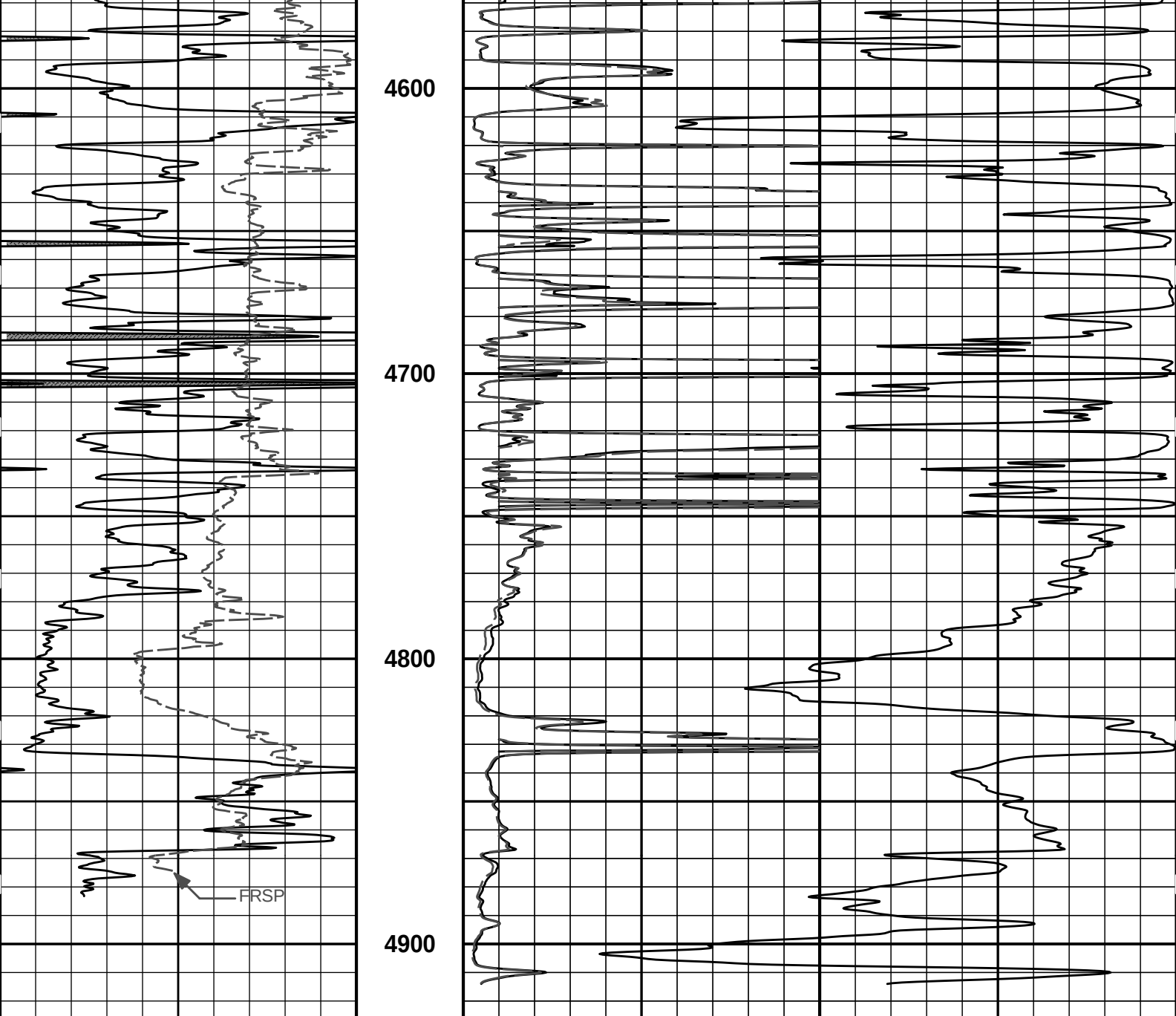
4200

4300

4400

4500





0	Gamma API		150	MD 1 : 600 ft	0	20in Resistivity 2ft Res		50	
	api					ohm-metre			
	SP					90in Resistivity 2ft Res		50	
	-20[+					ohm-metre			
					1000	90in Conductivity 2ft Res			0
						mmho per metre			

HALLIBURTON

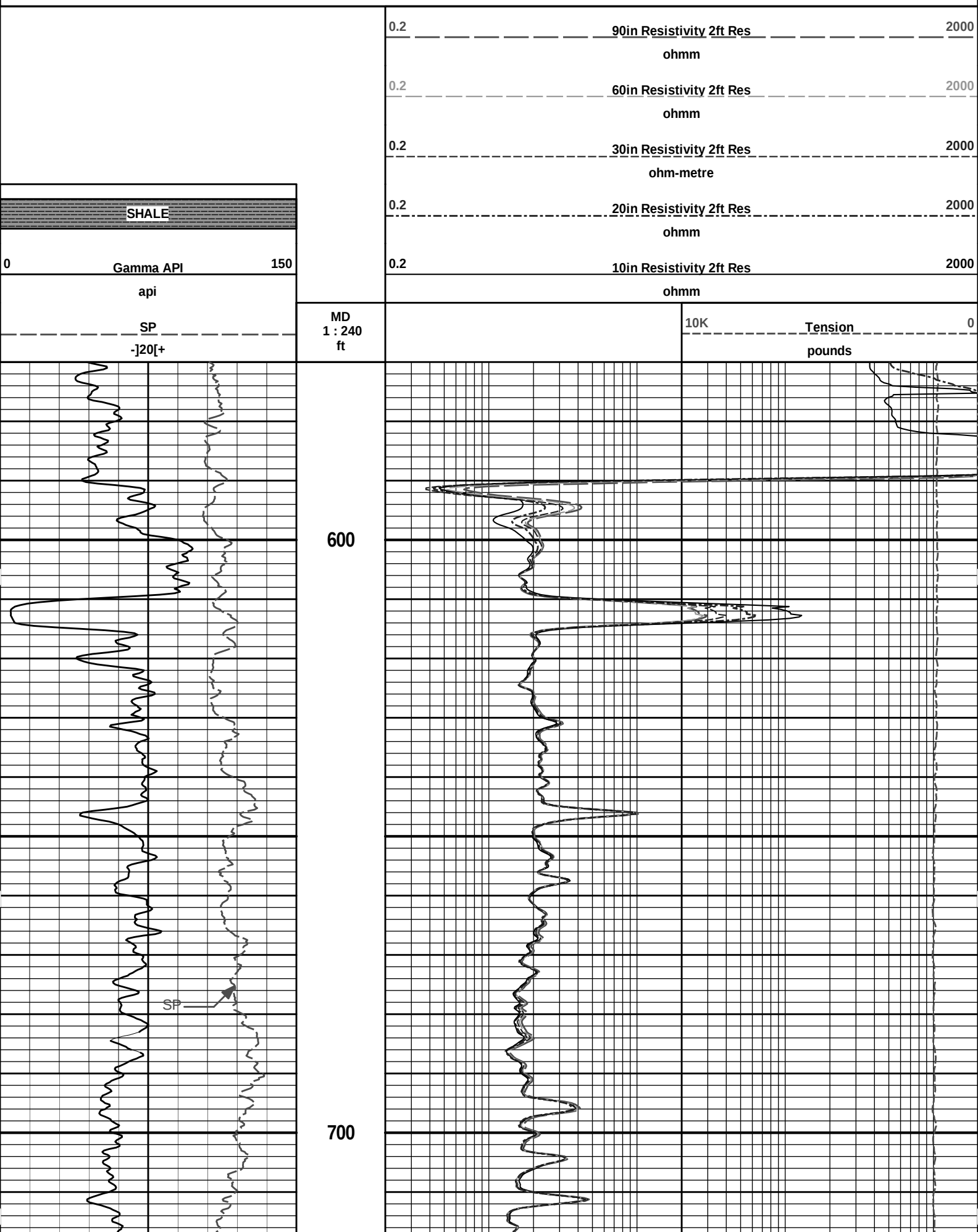
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Data: BLESSED_ACRES\Well Based\CASING_RUN1\
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2 INCH MAIN LOG

HALLIBURTON

Plot Time: 23-May-13 16:20:47
Plot Range: 570 ft to 4926.5 ft
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Plot File: \\-LOCAL-\\BLESSED_ACRES\0001 SP-GTET-DSN-SDL-ACRT-CHIACRT\ACRT_5_main_lib

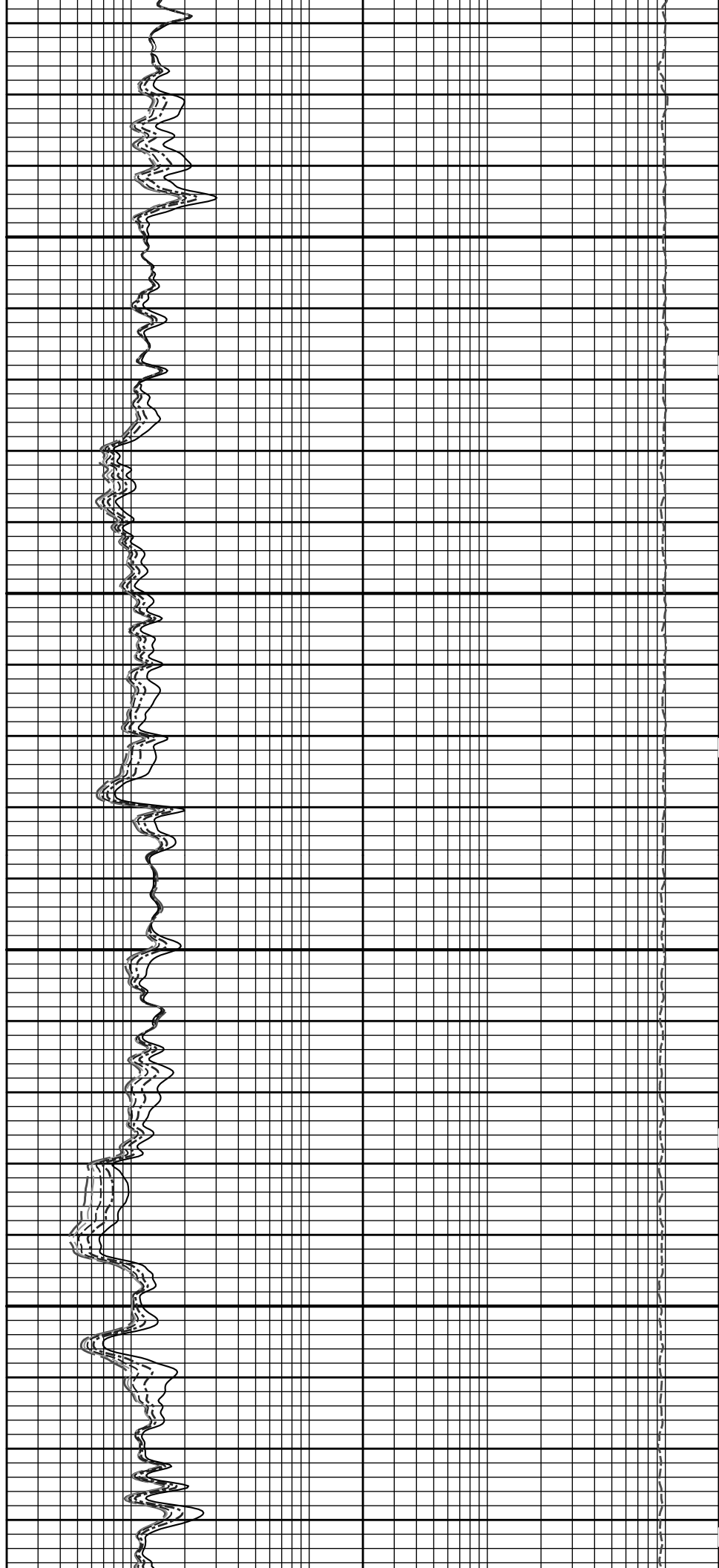
5 INCH MAIN LOG

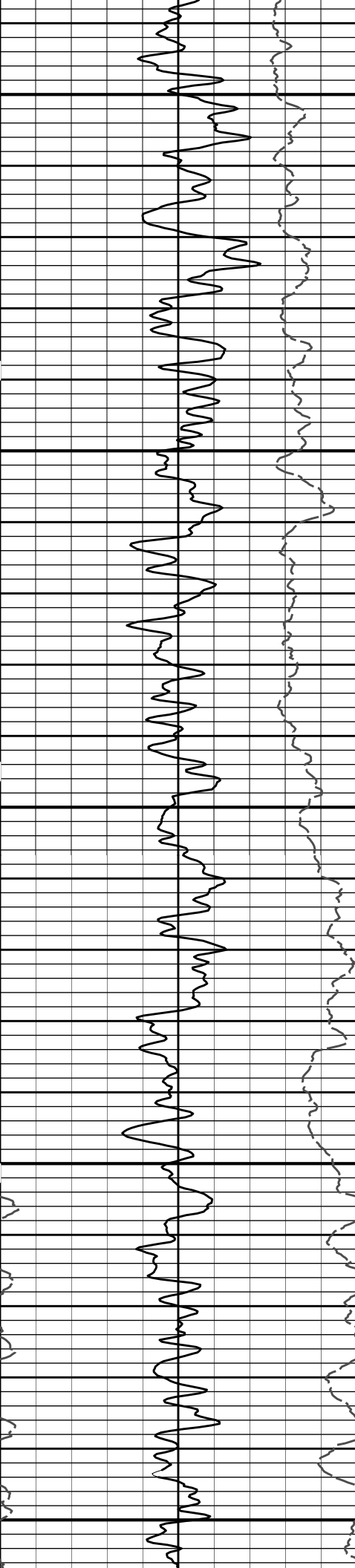




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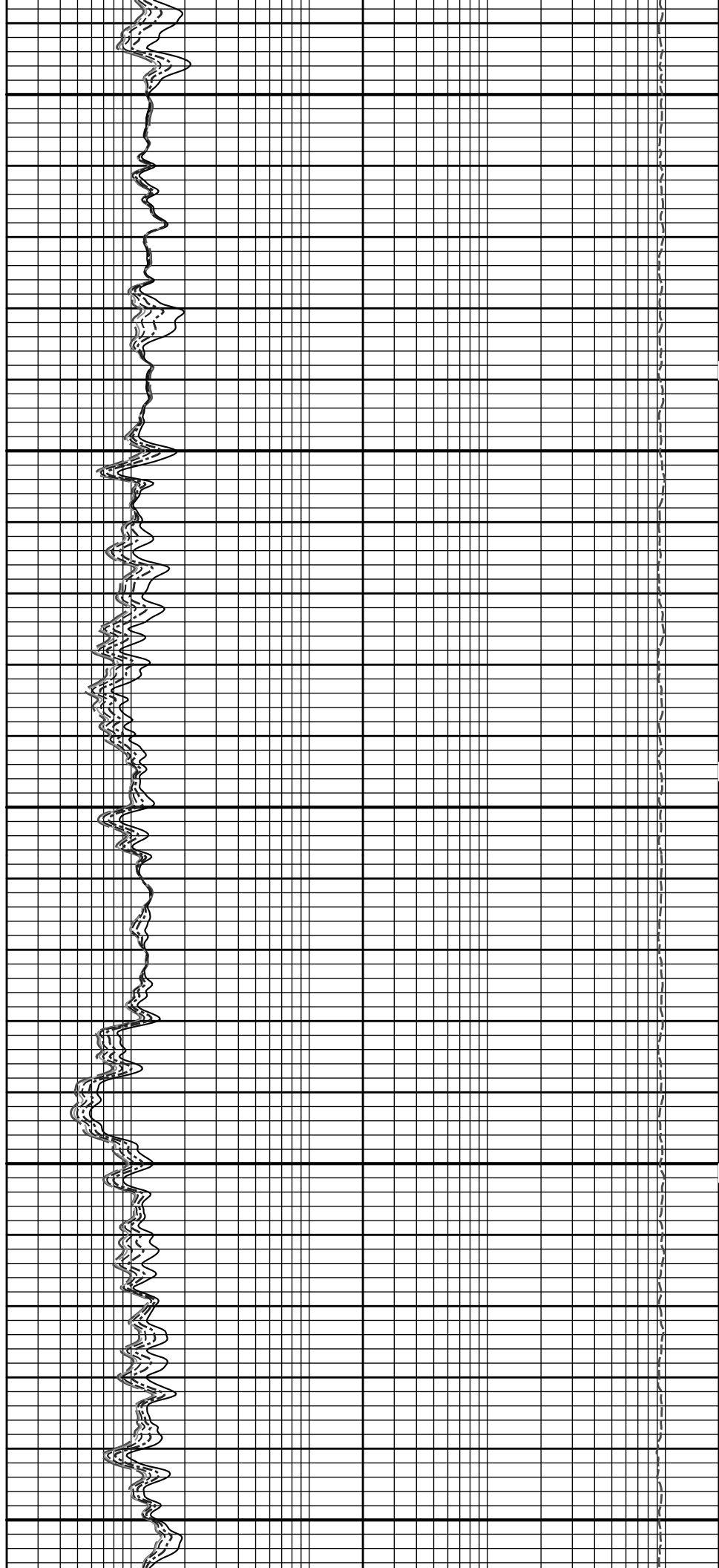
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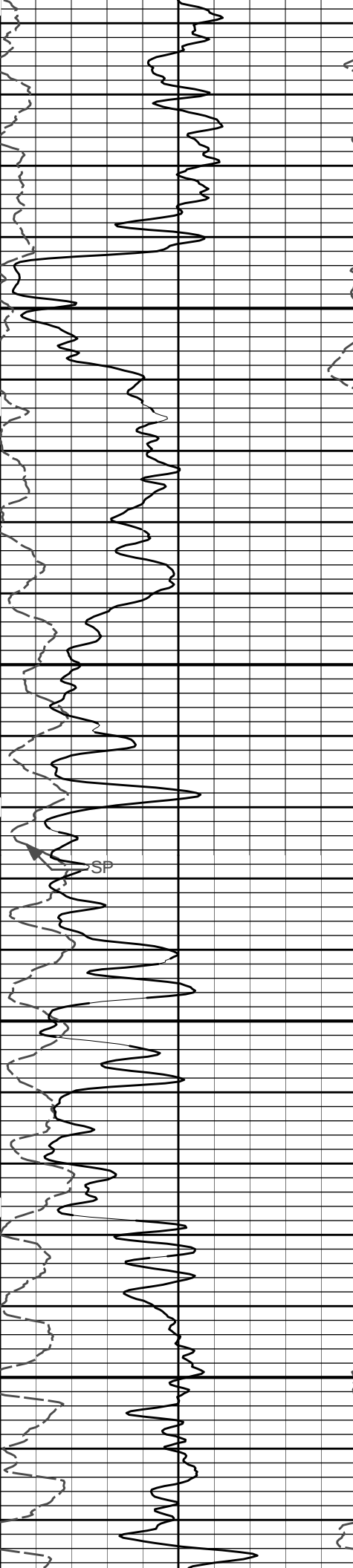




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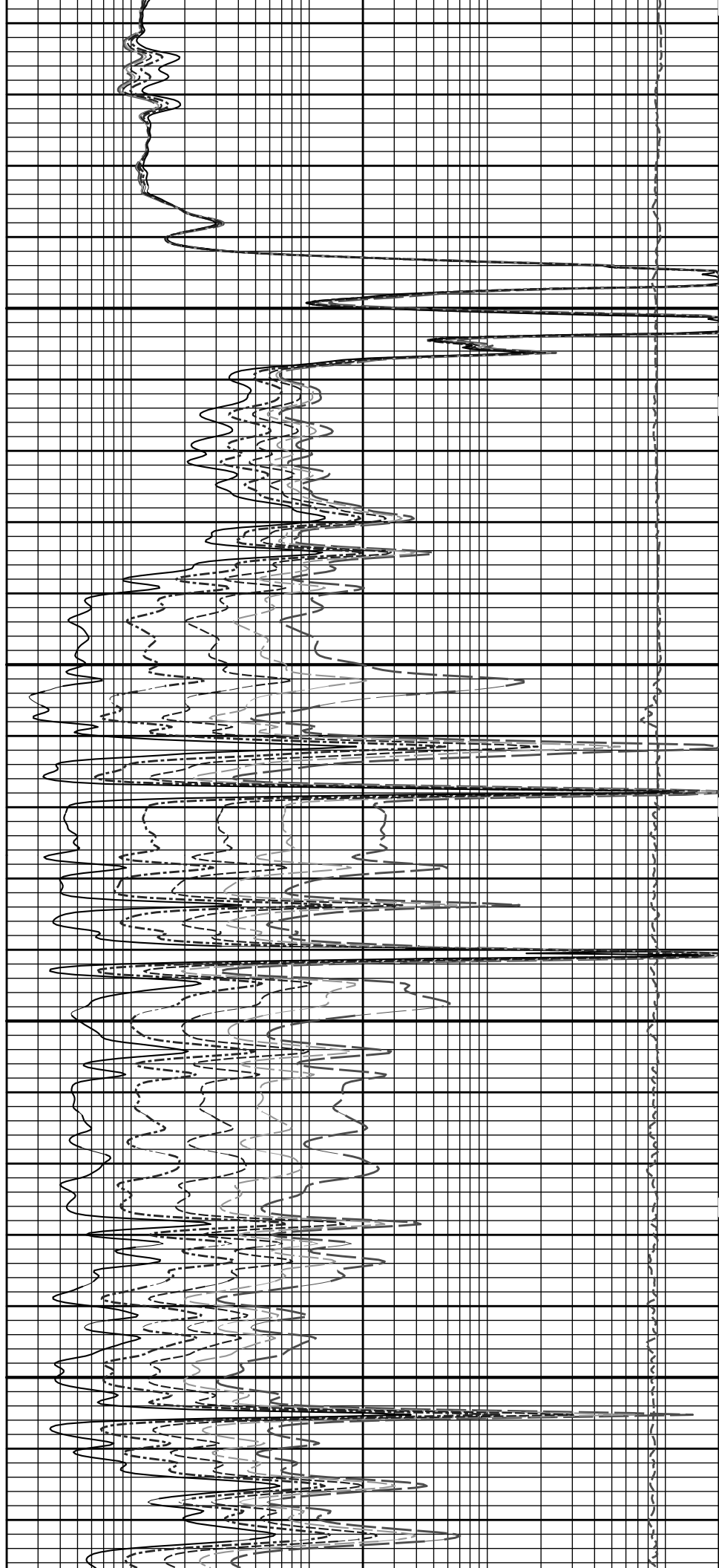
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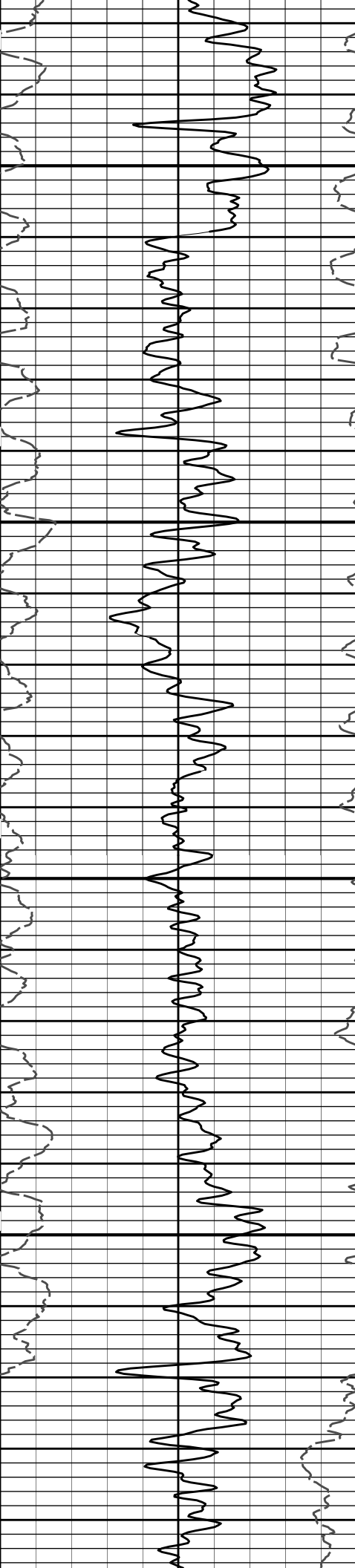




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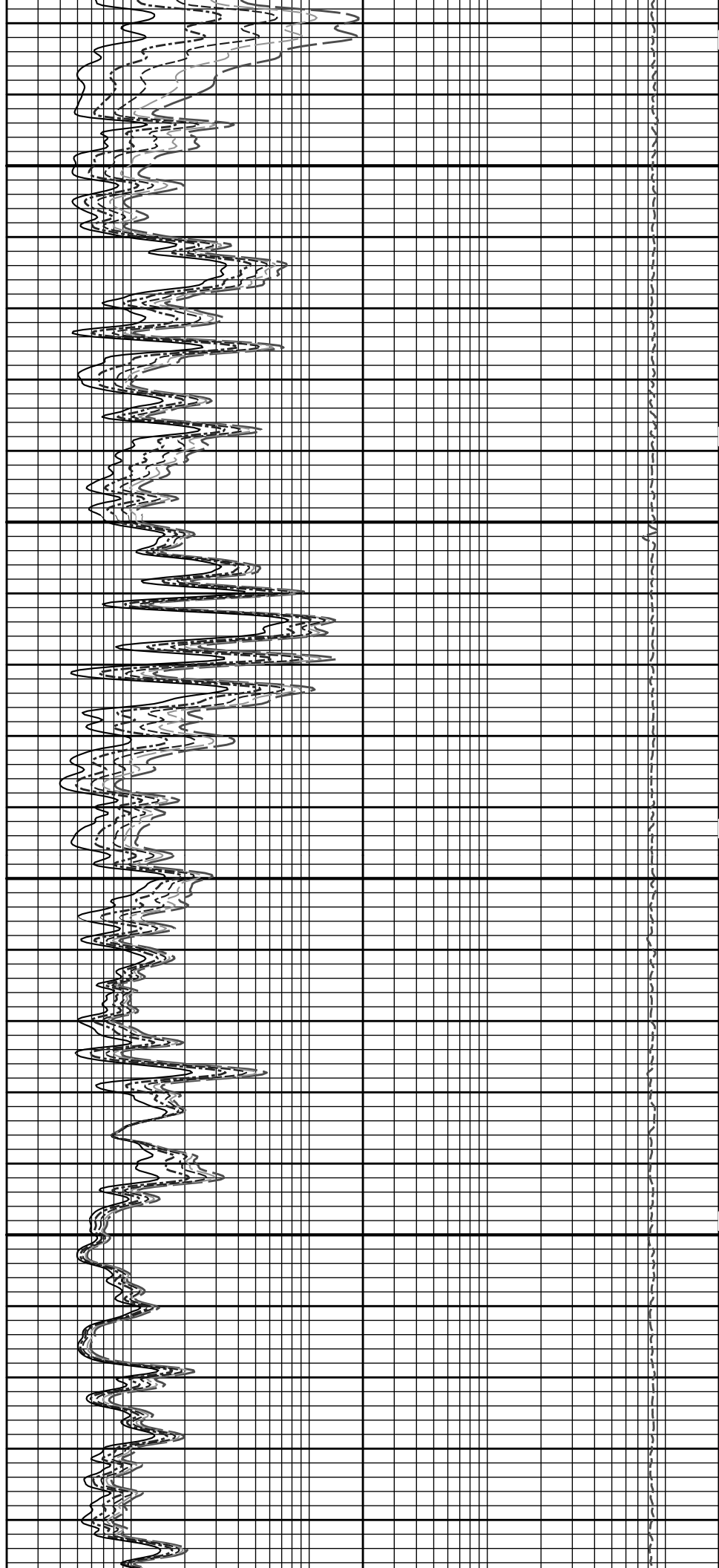
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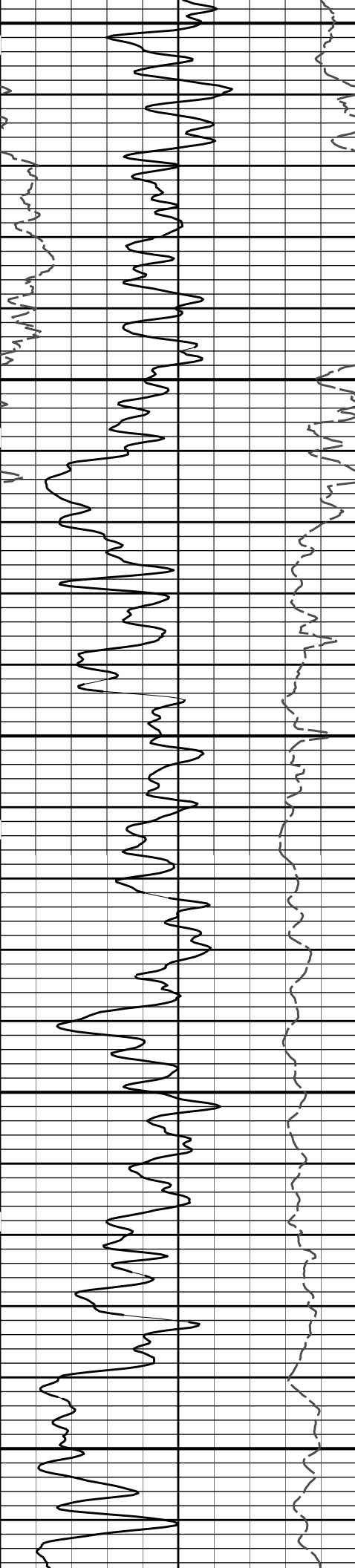




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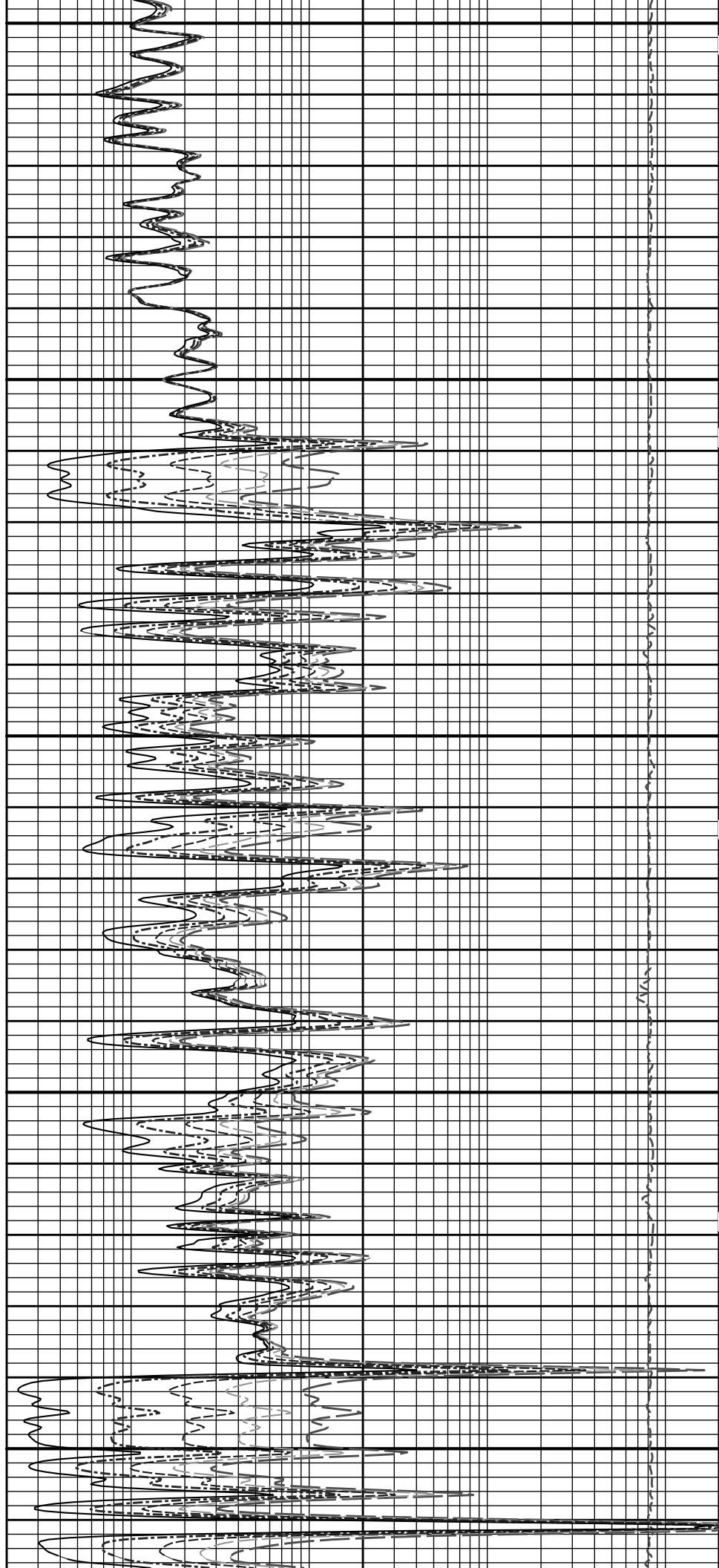


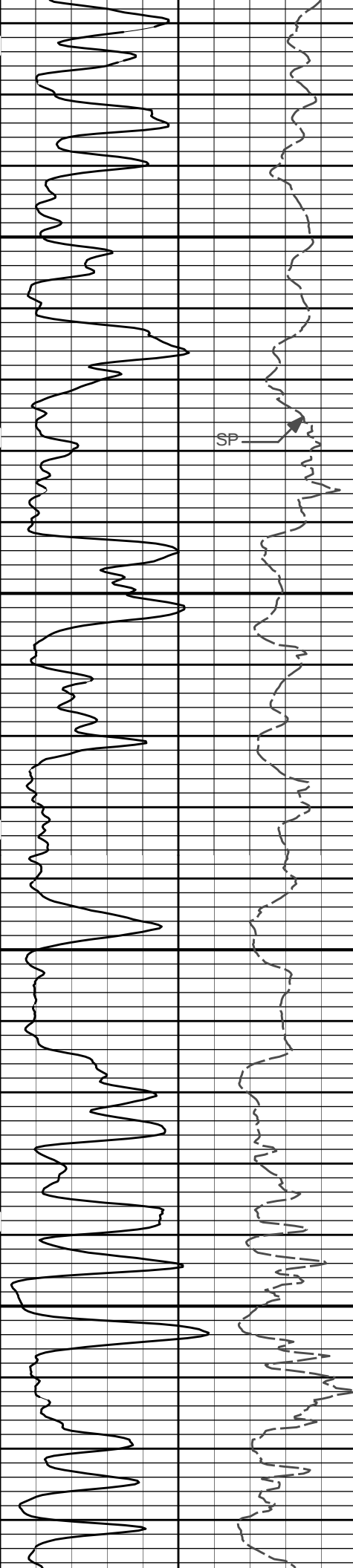


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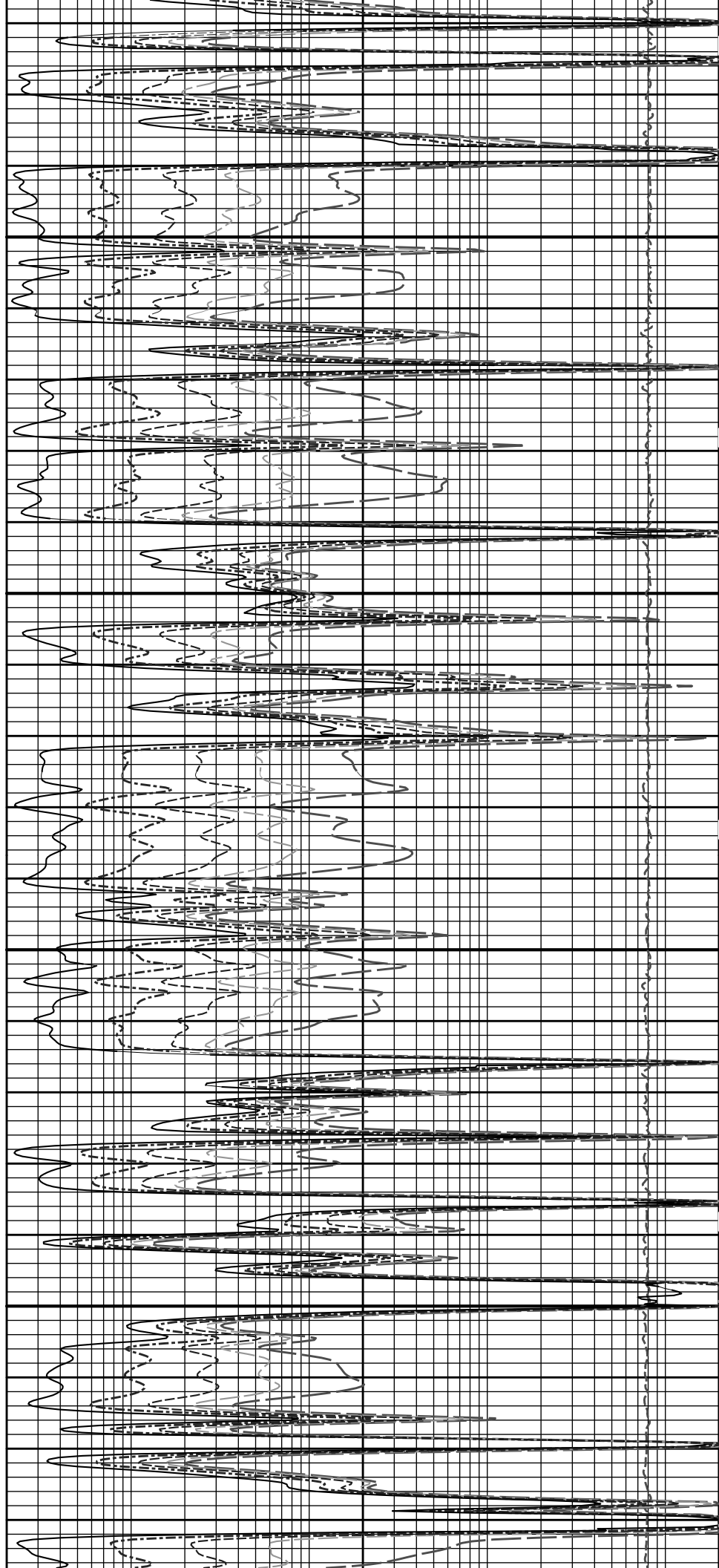
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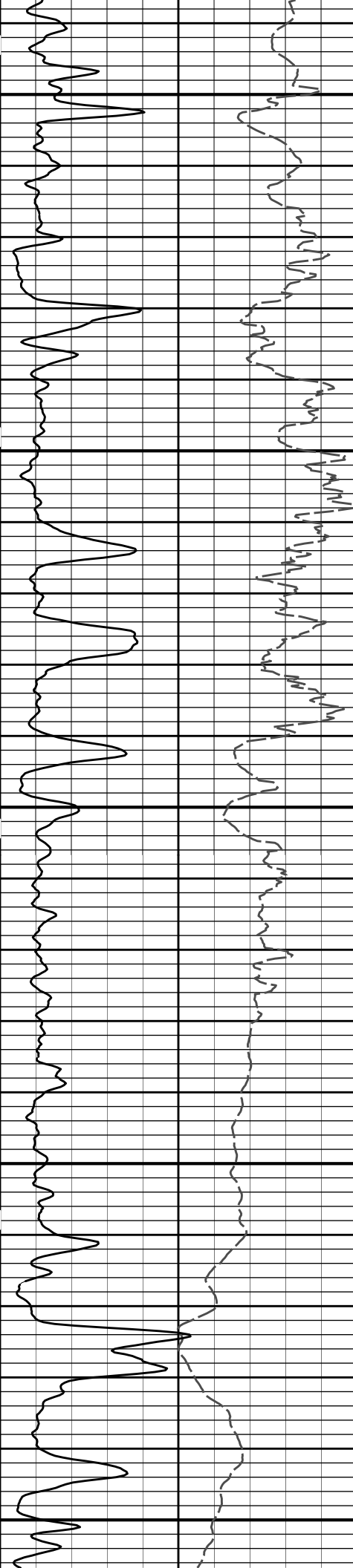




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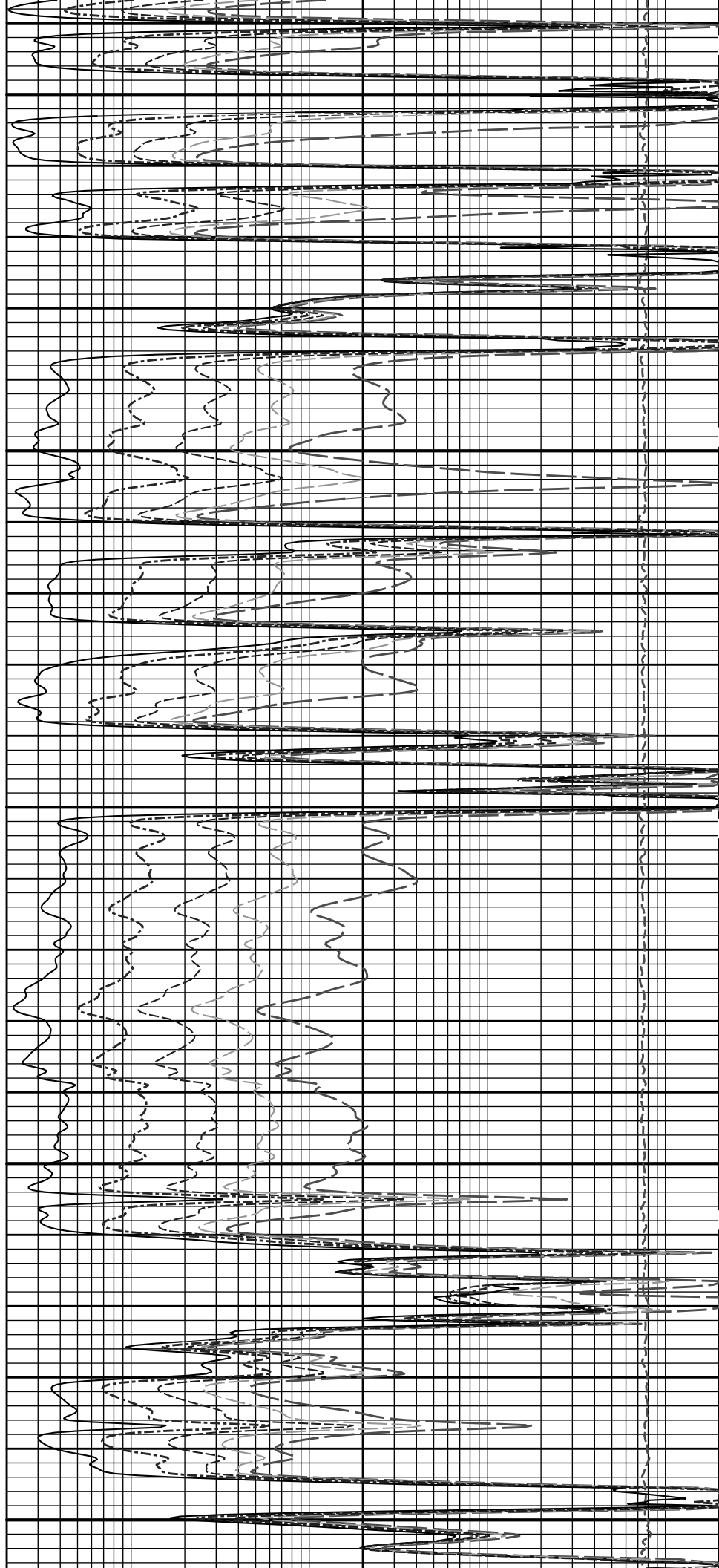
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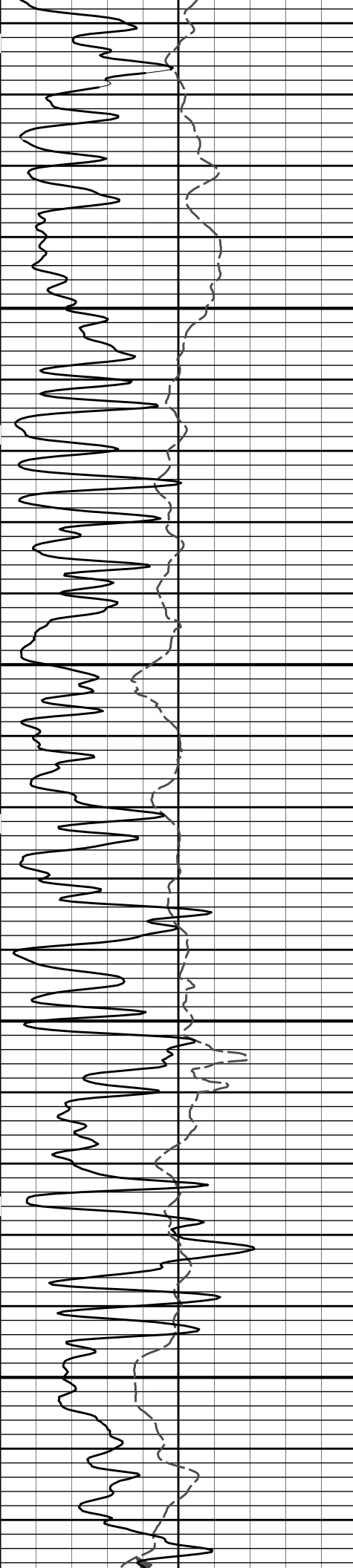




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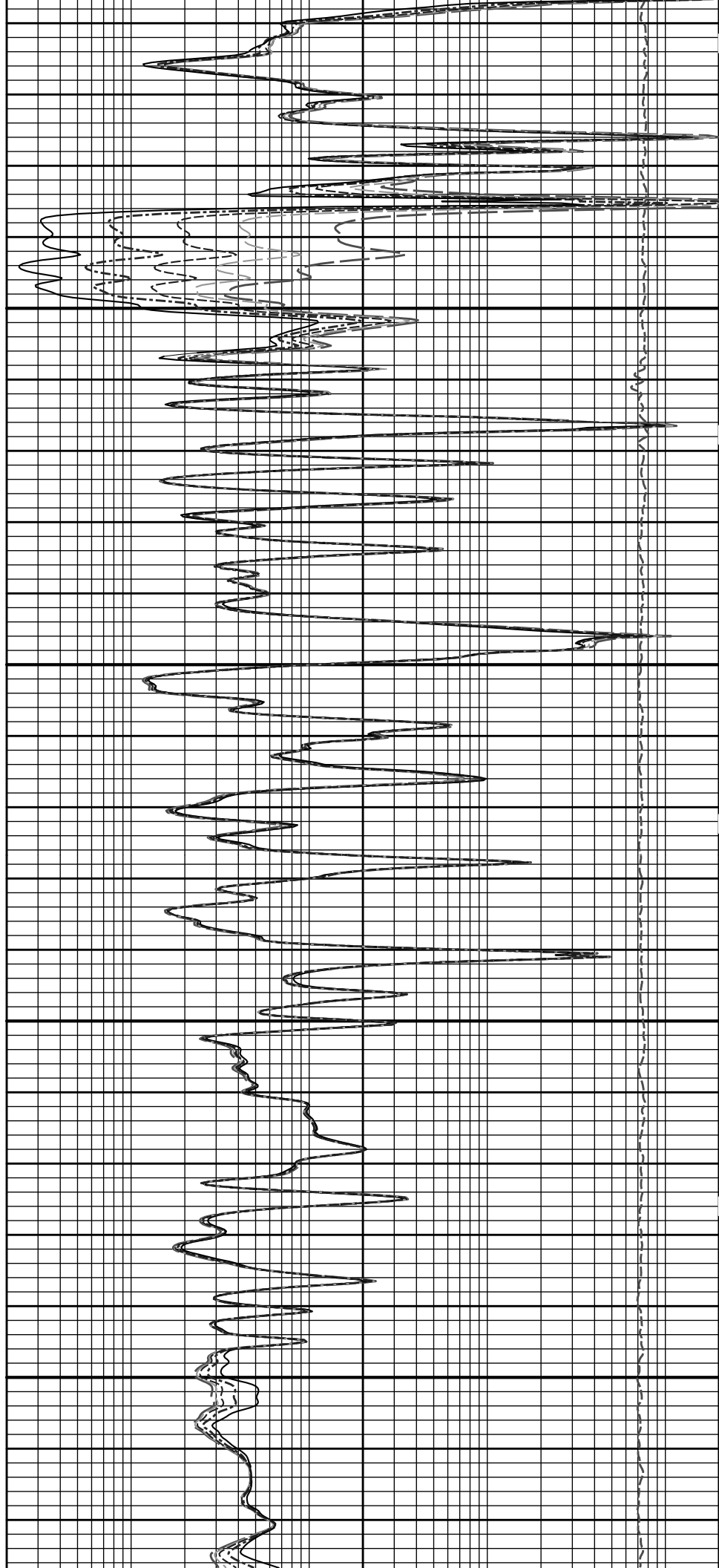
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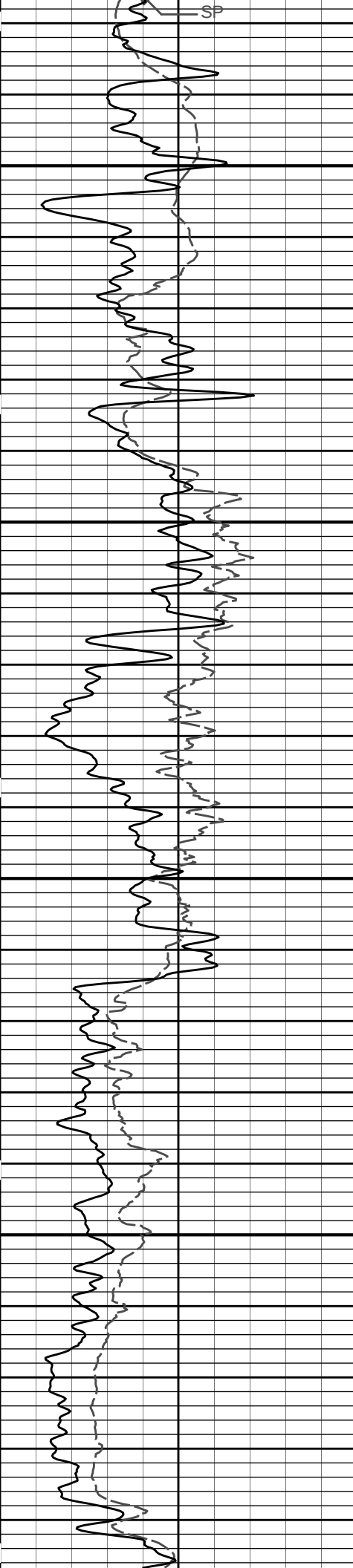




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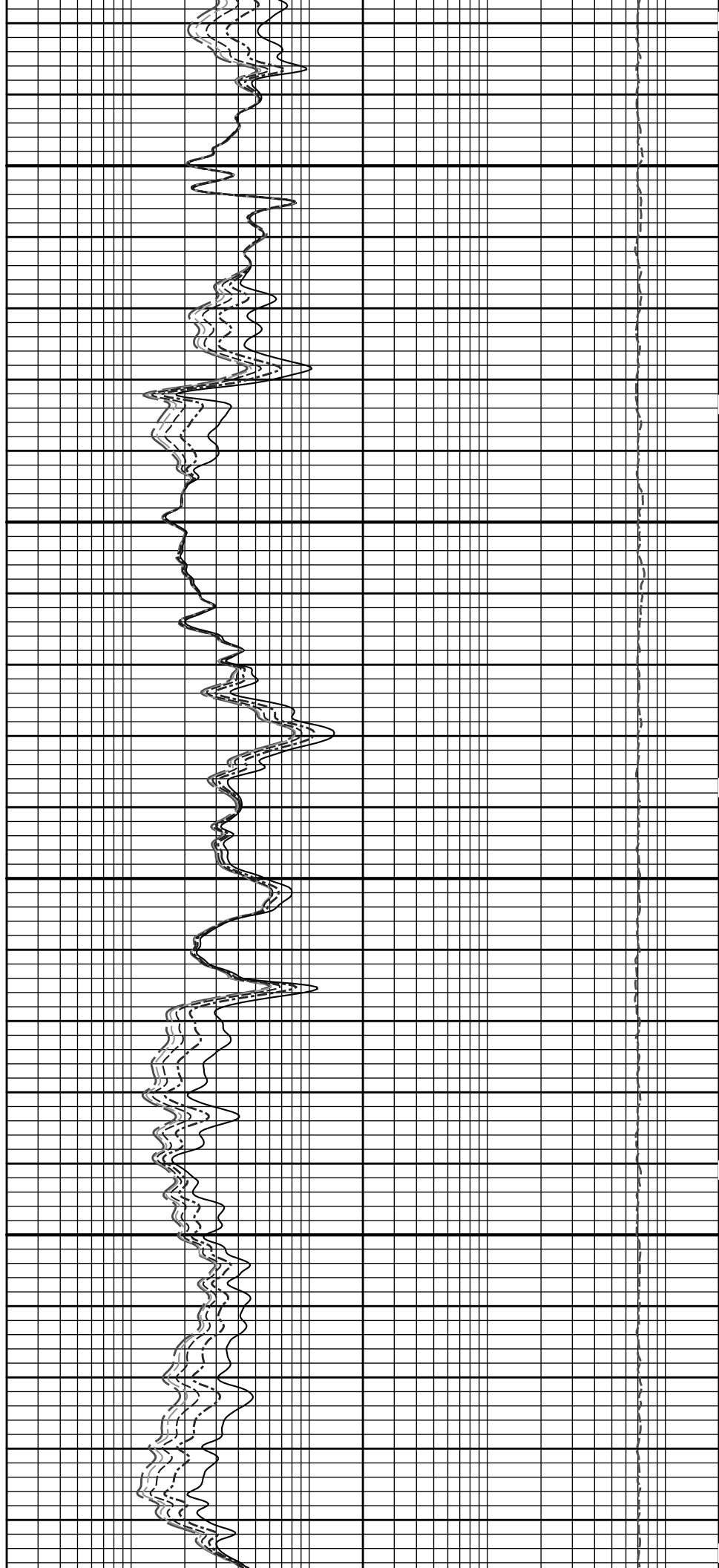
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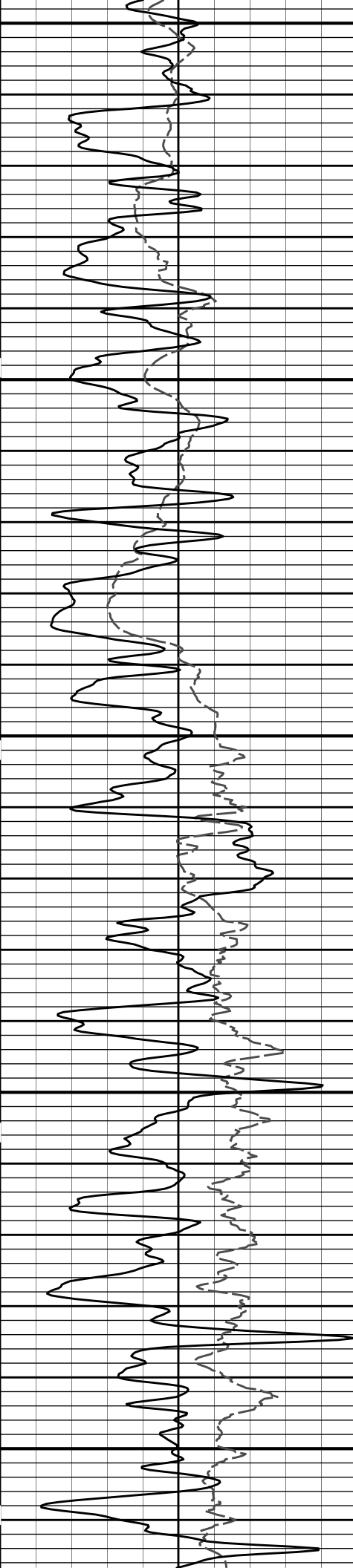




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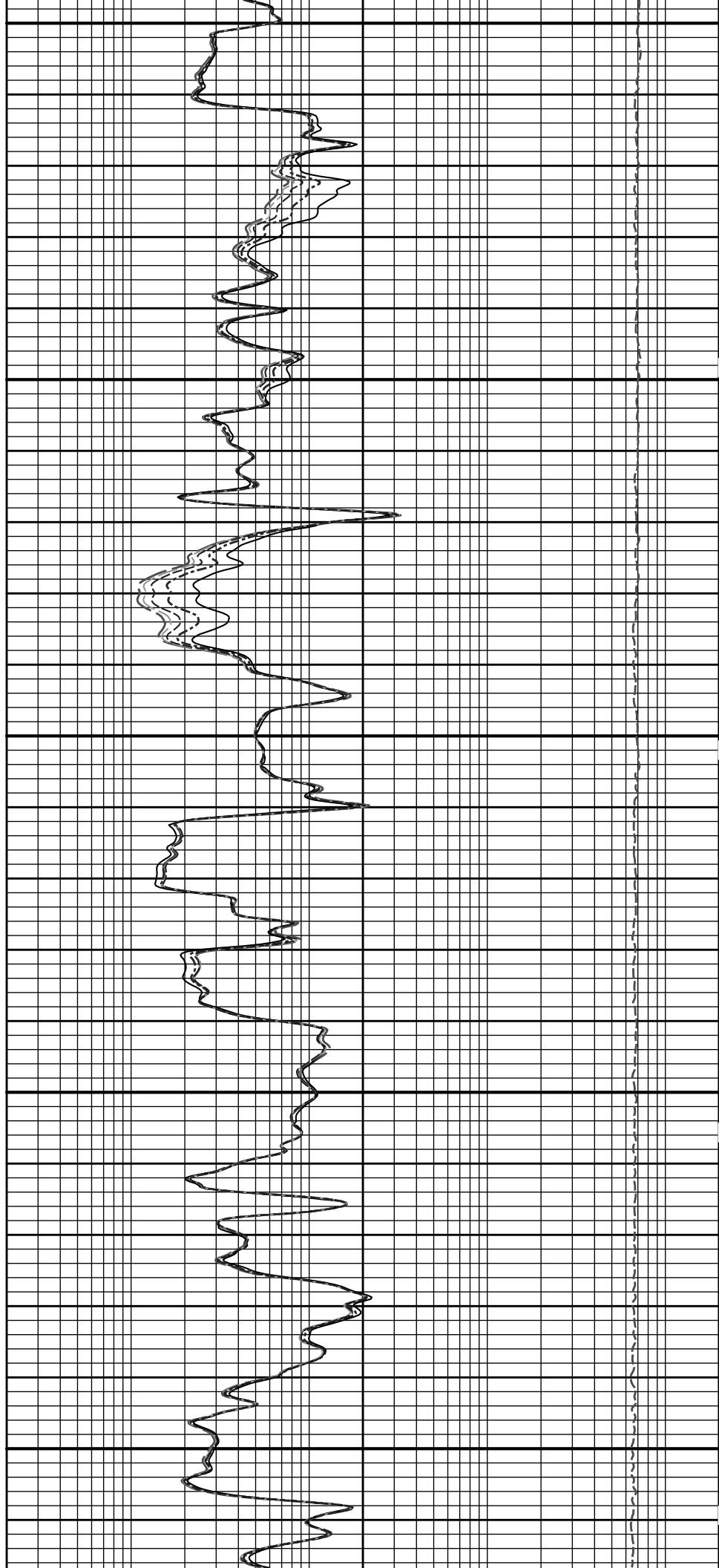


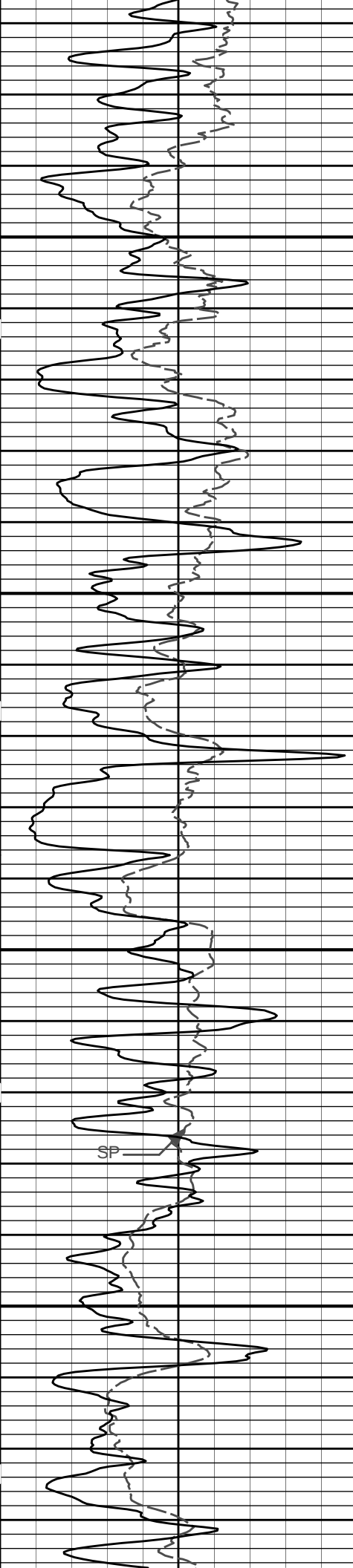


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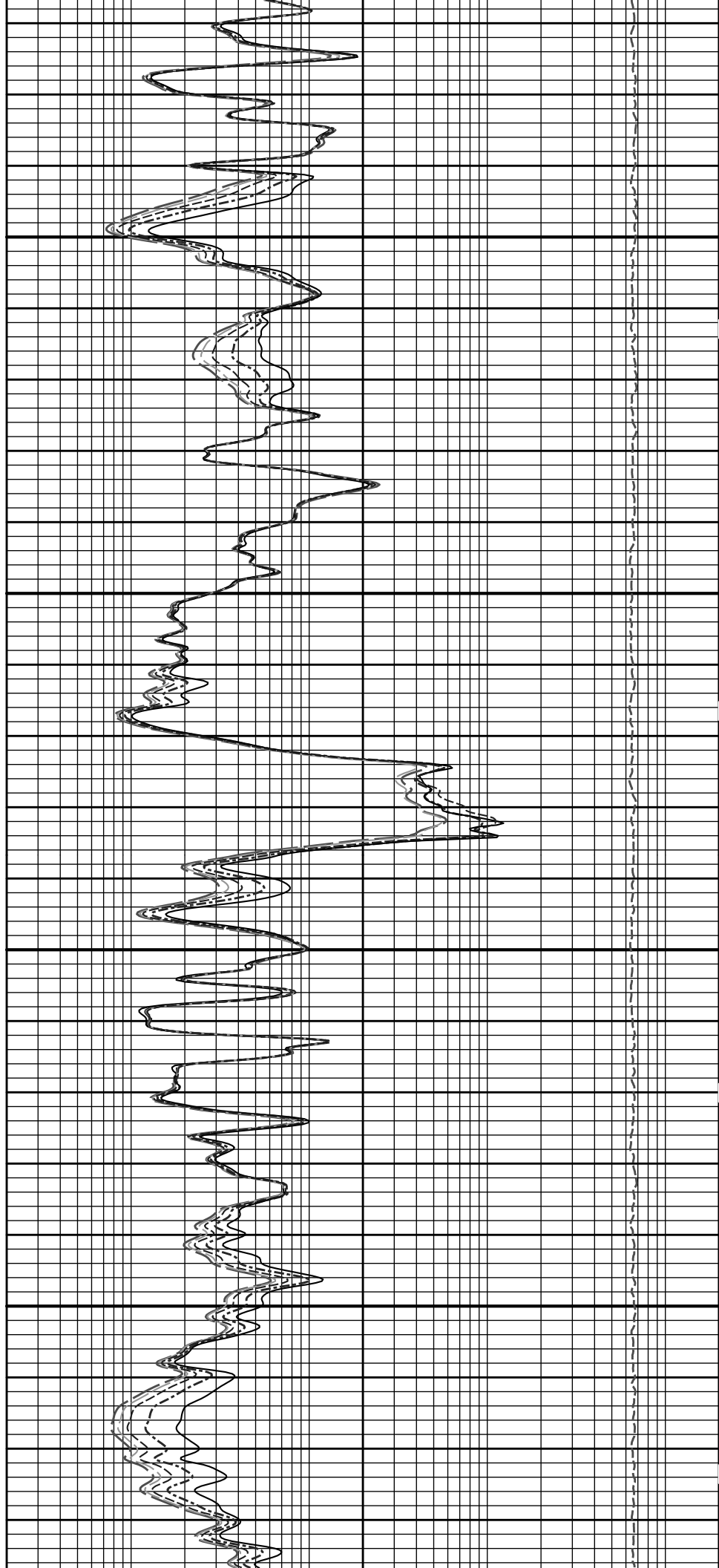
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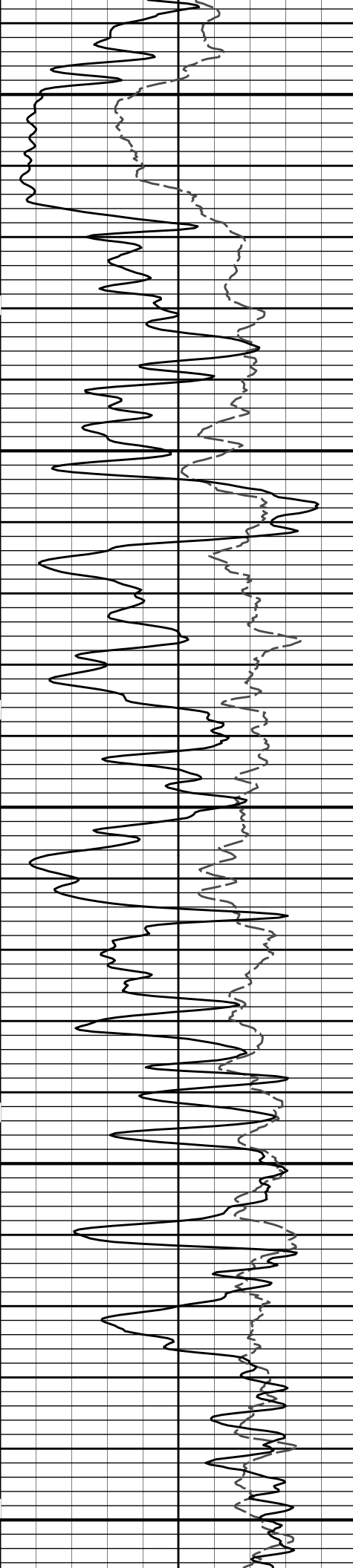




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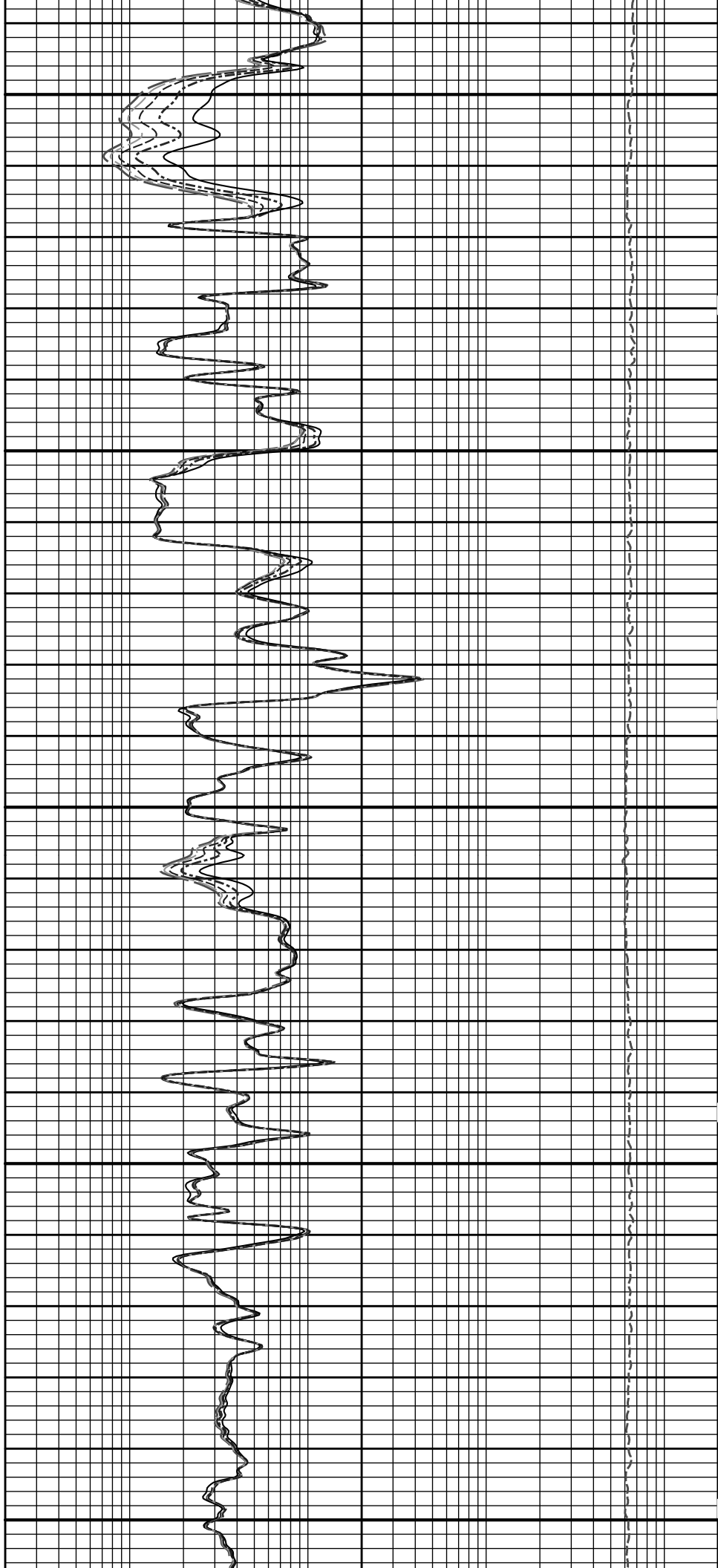
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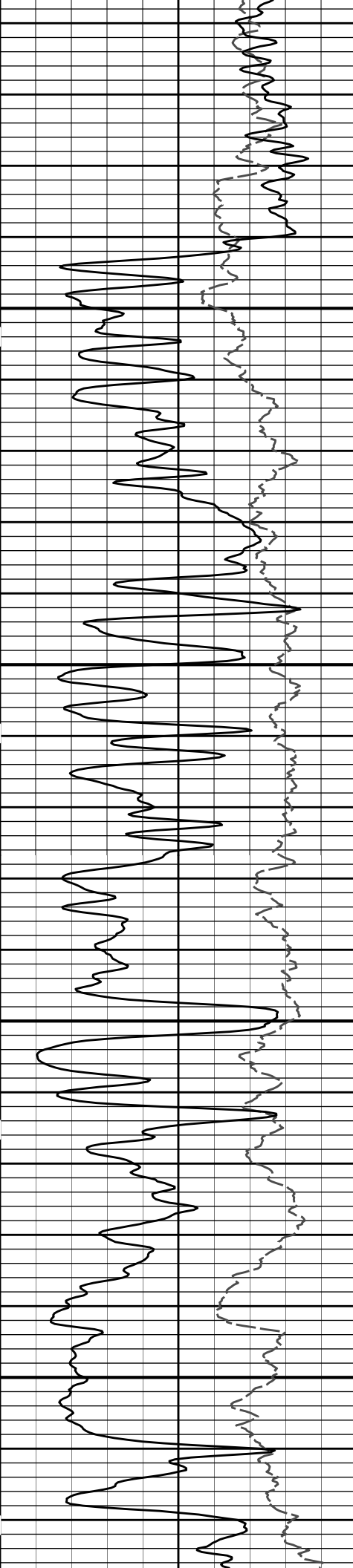




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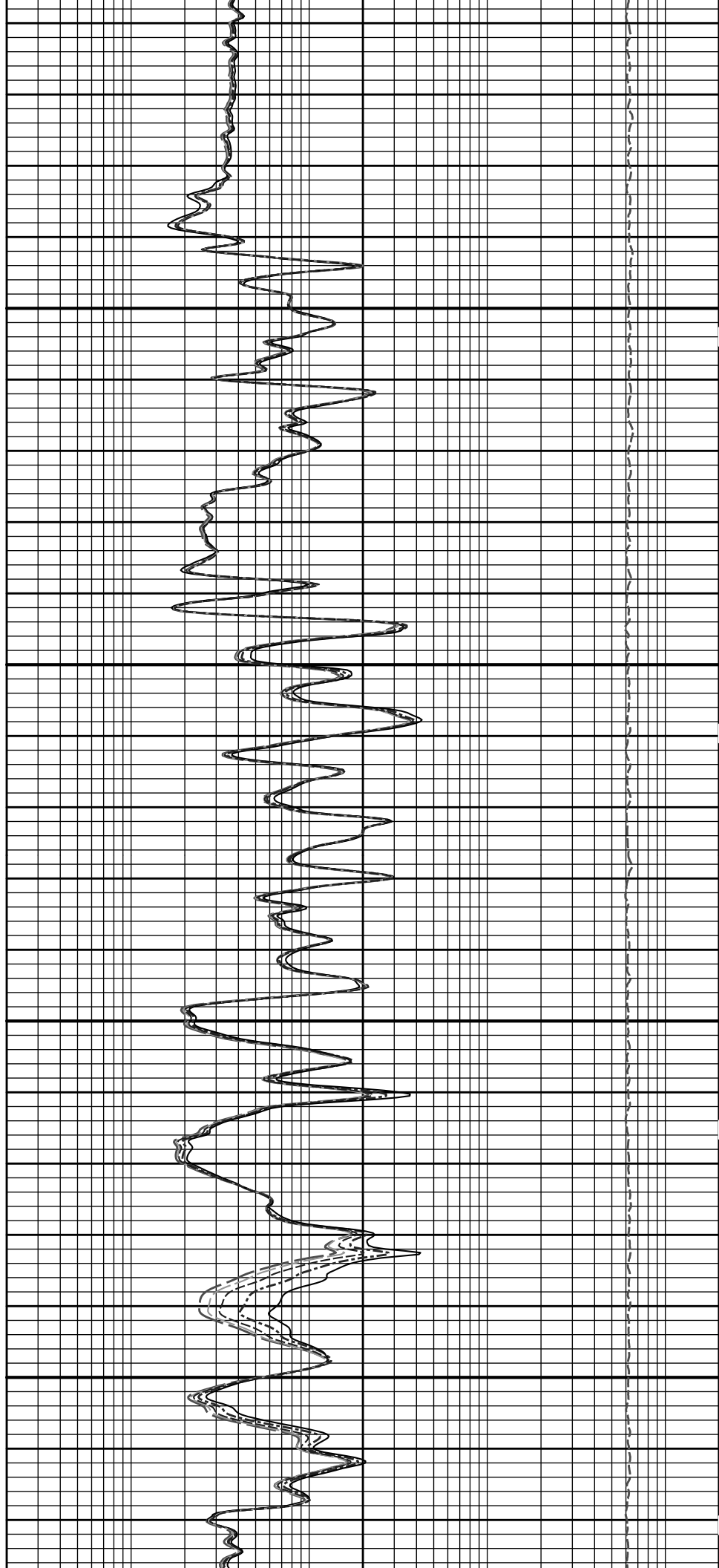
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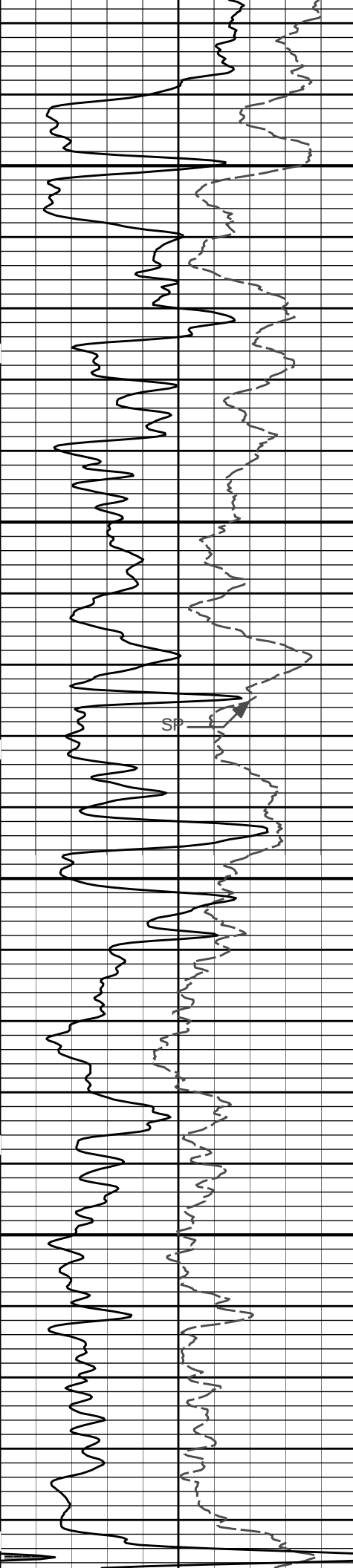




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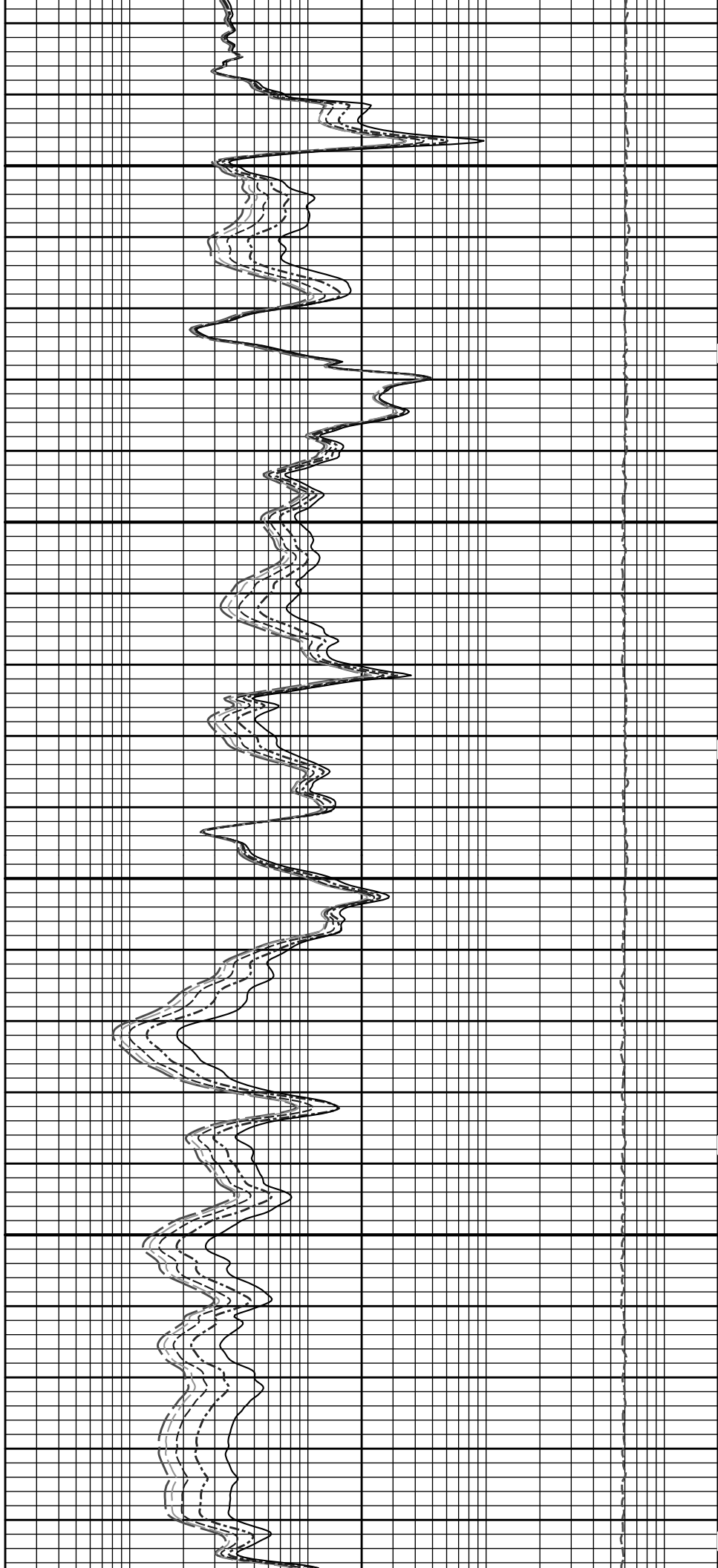
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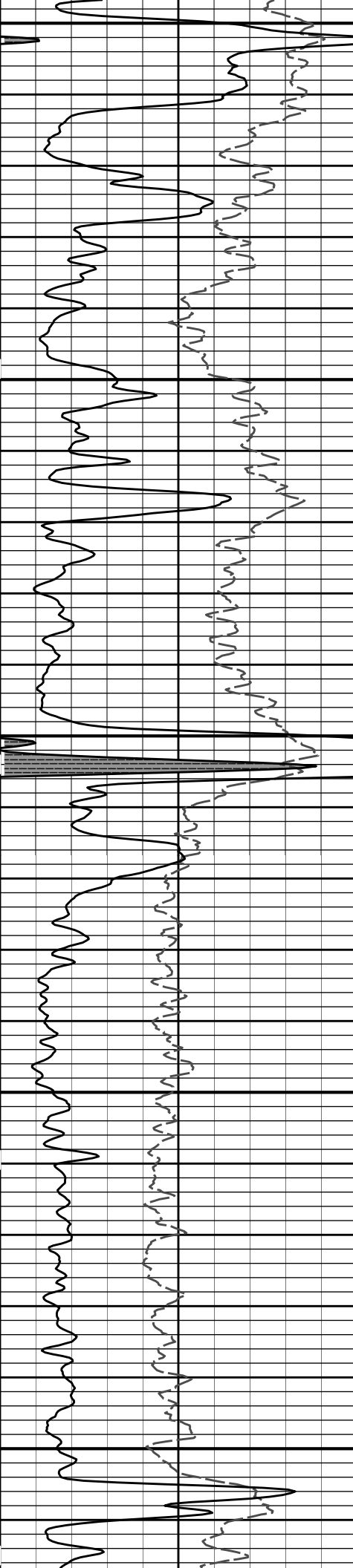




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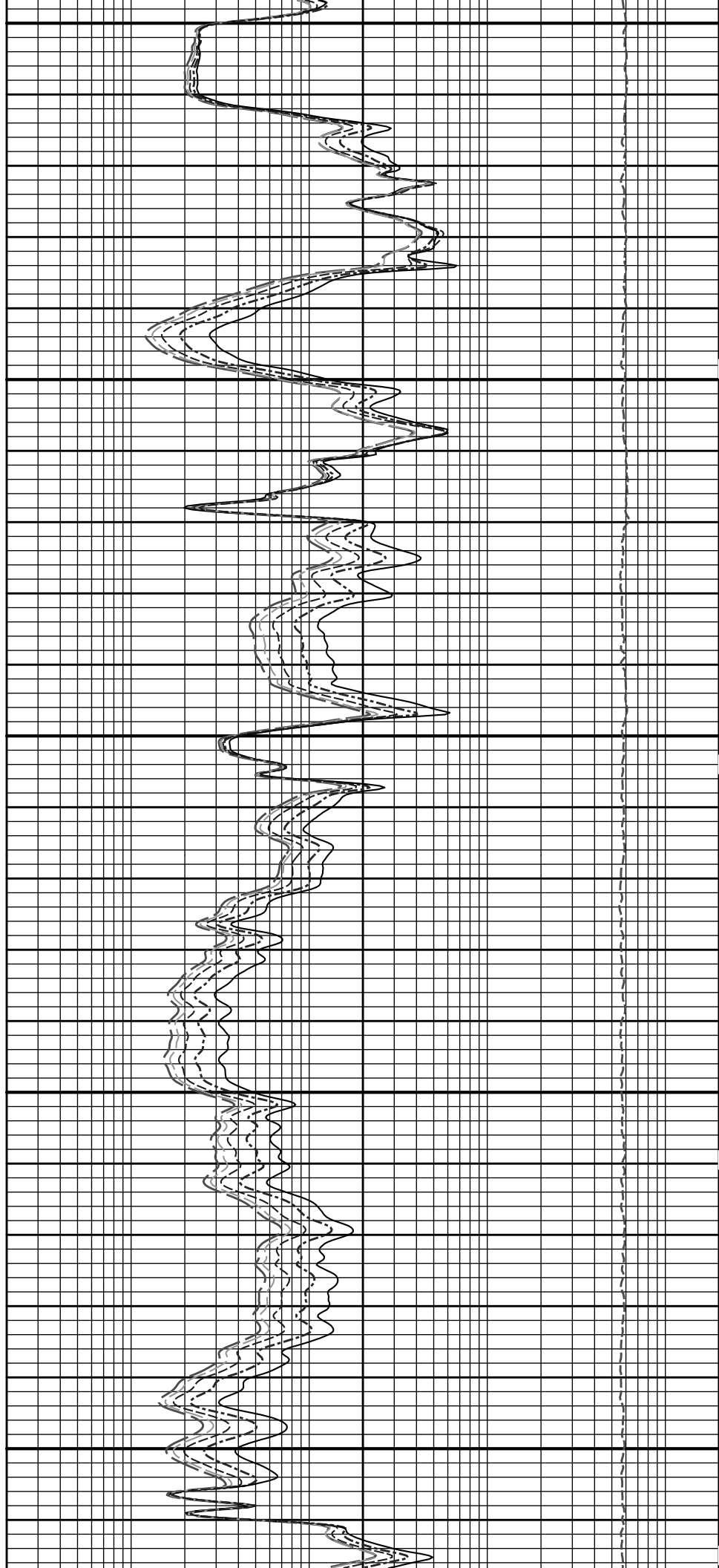


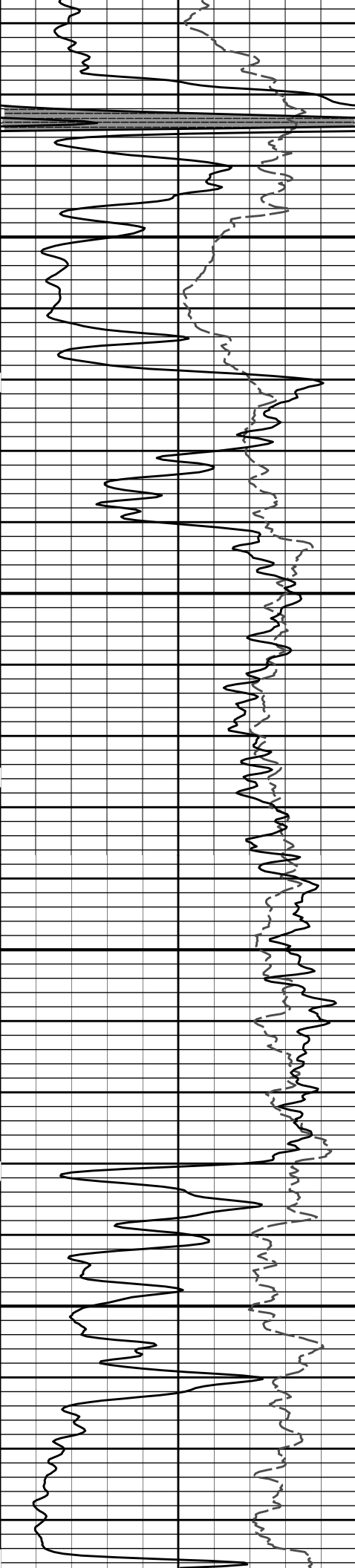


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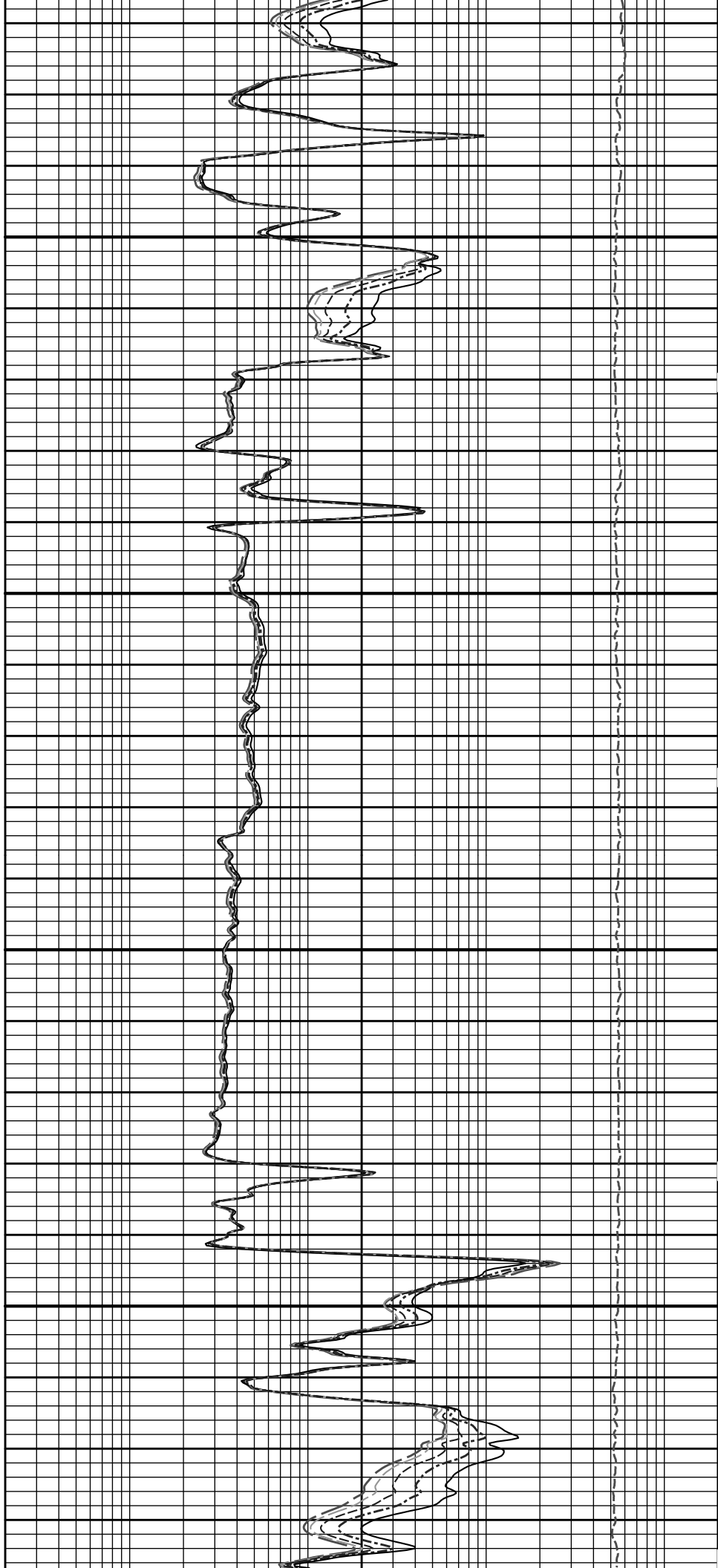
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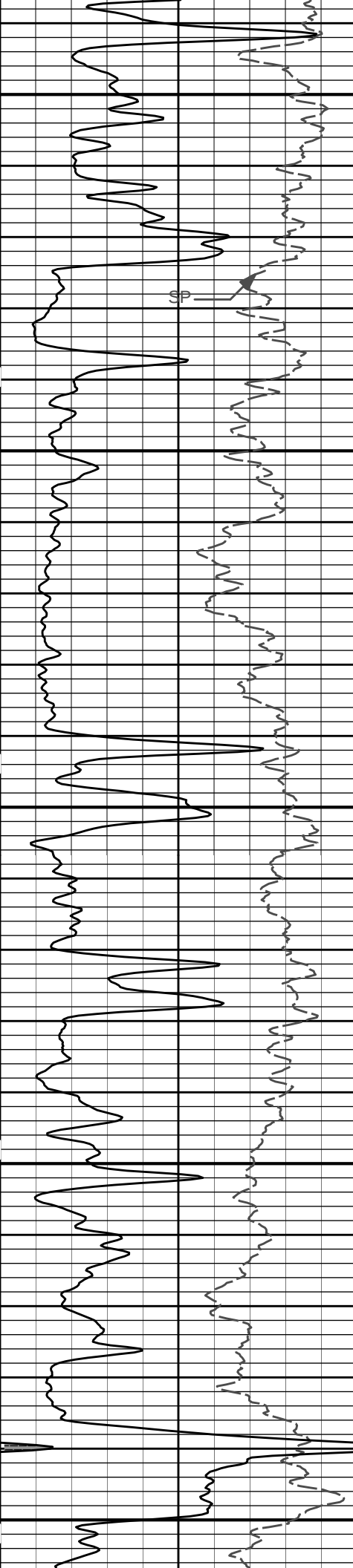




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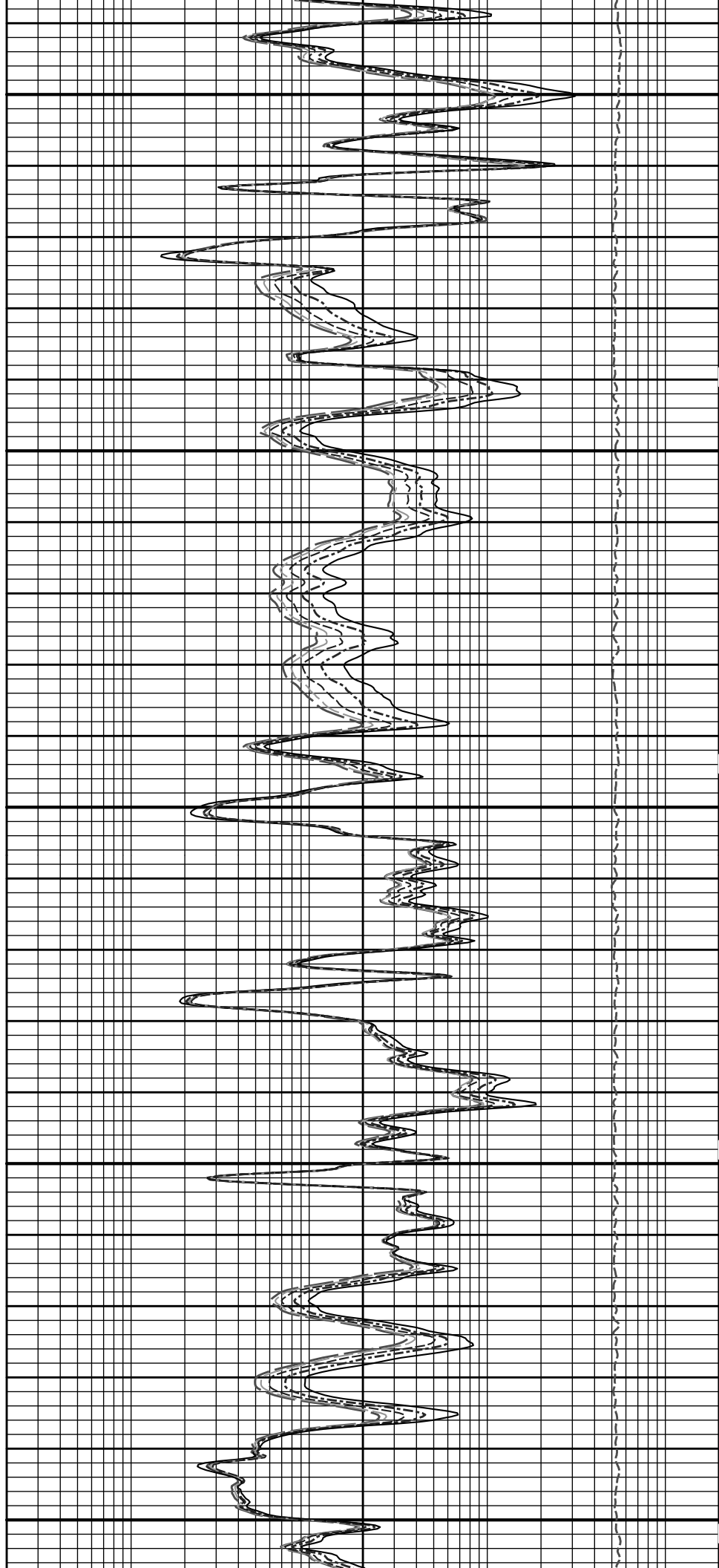
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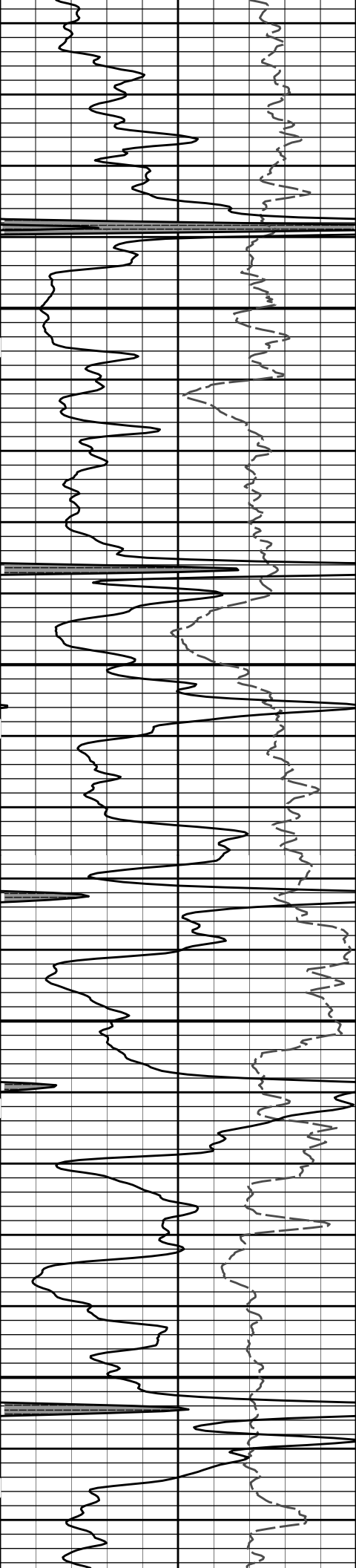




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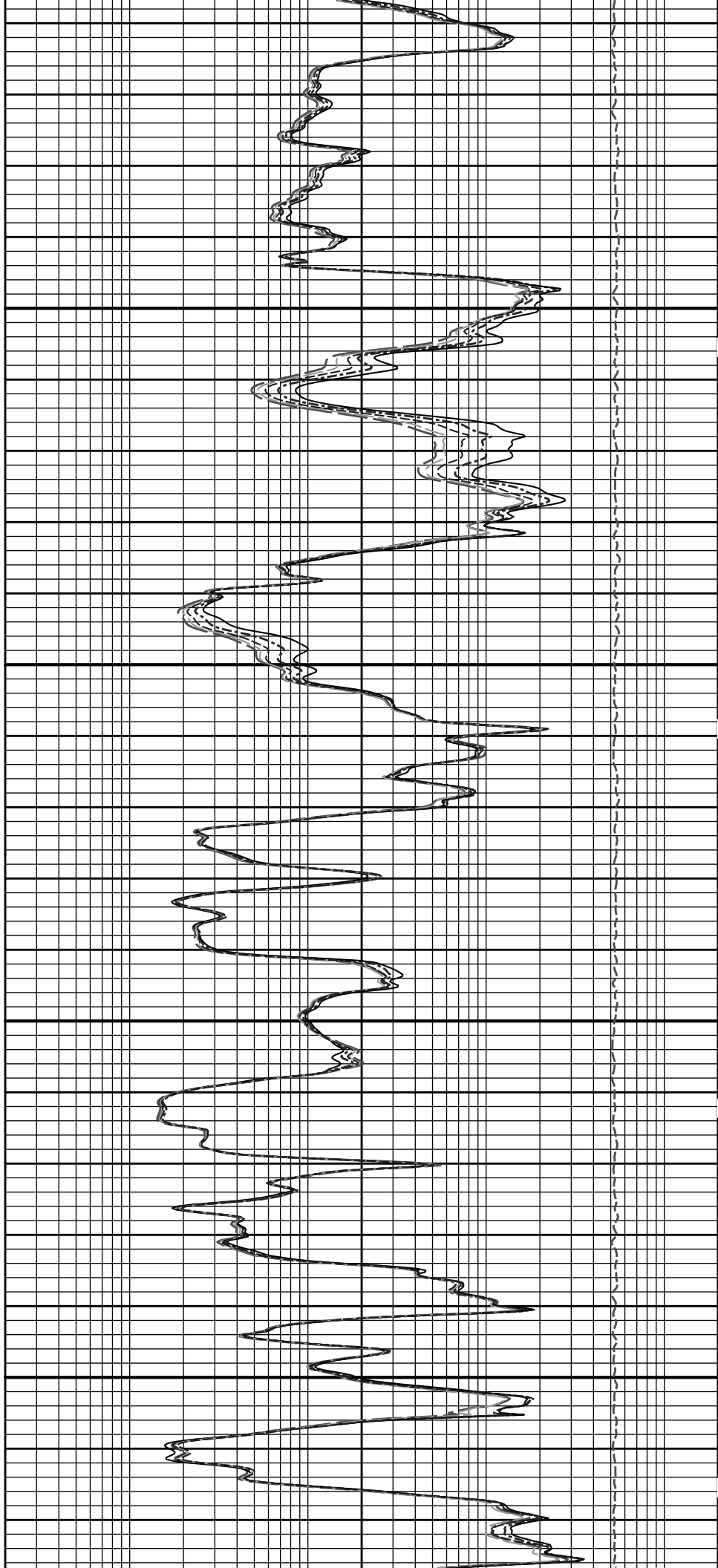
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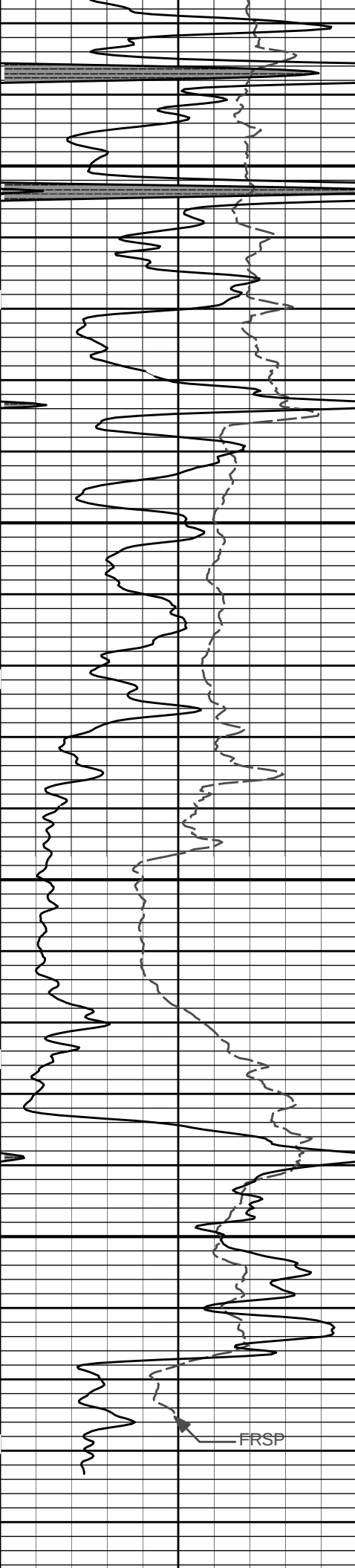




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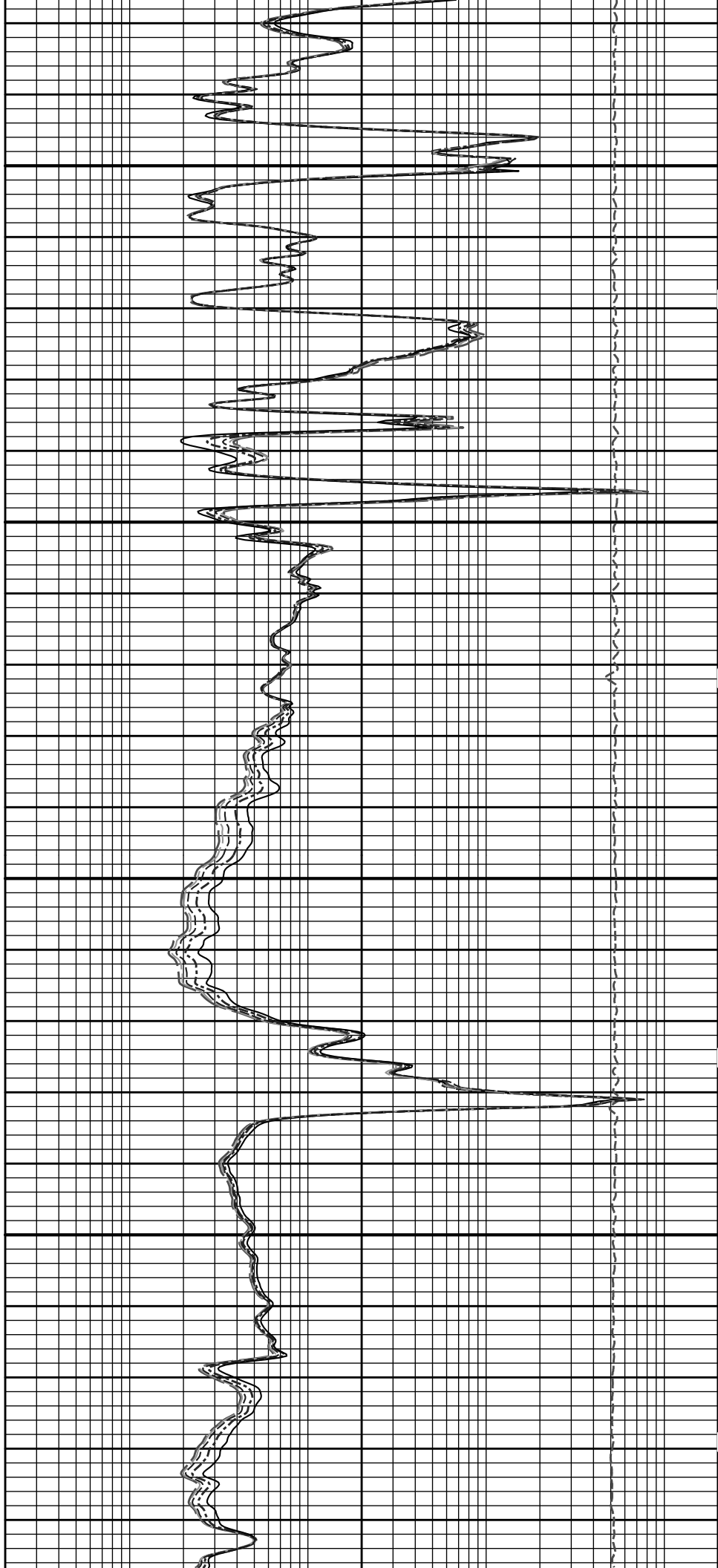
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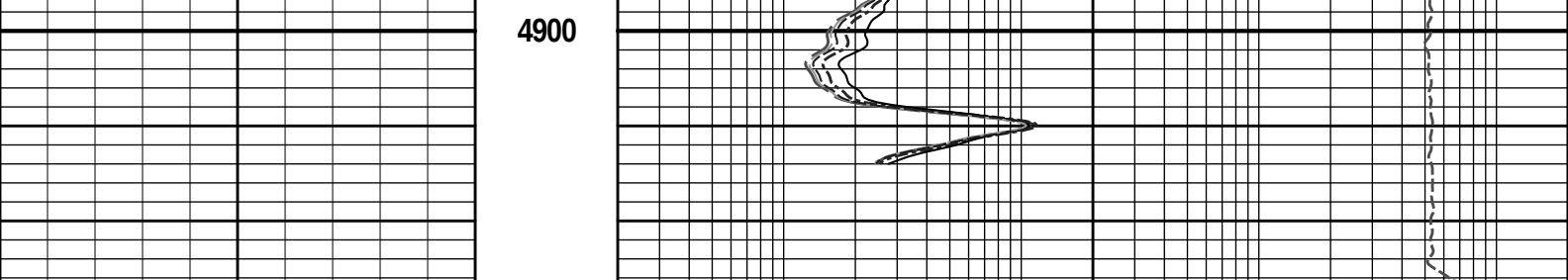




4700

4800





SP		MD 1 : 240 ft	10K Tension 0	
-]20[+			pounds	
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

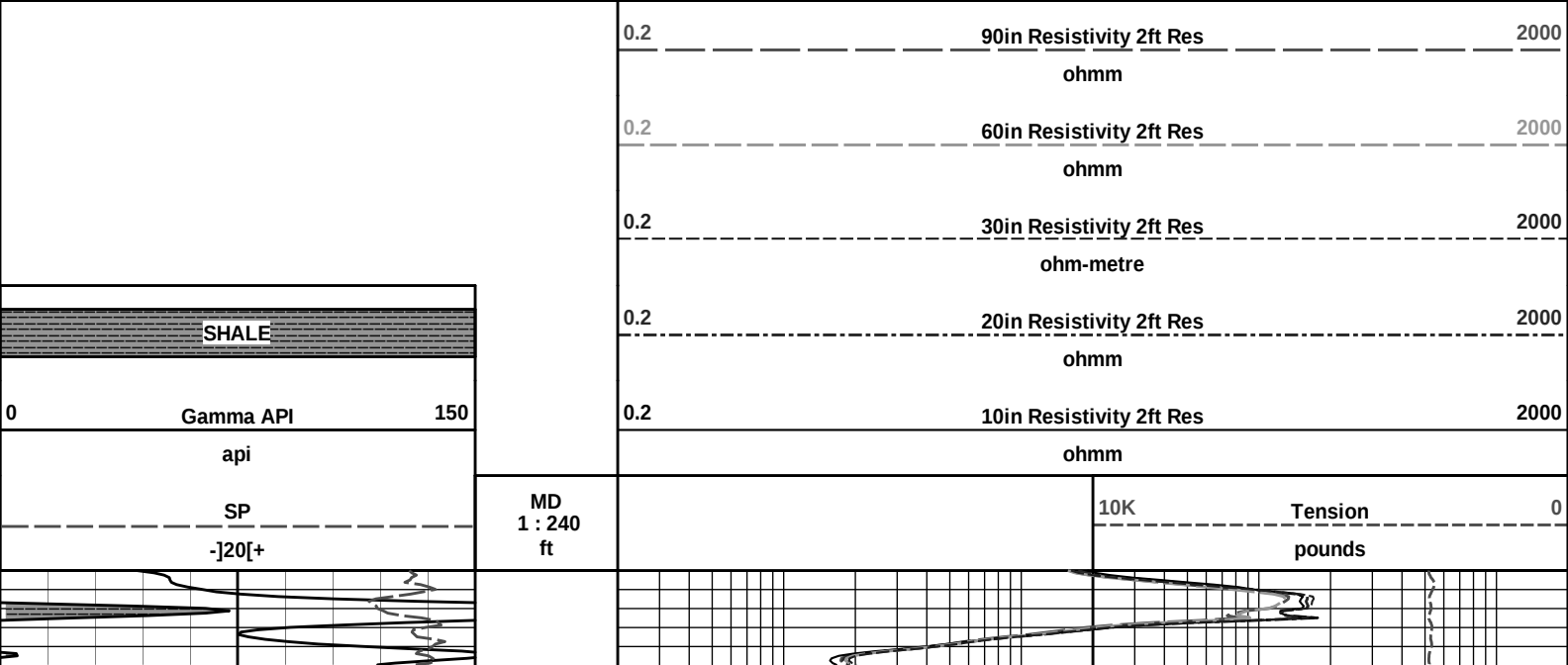
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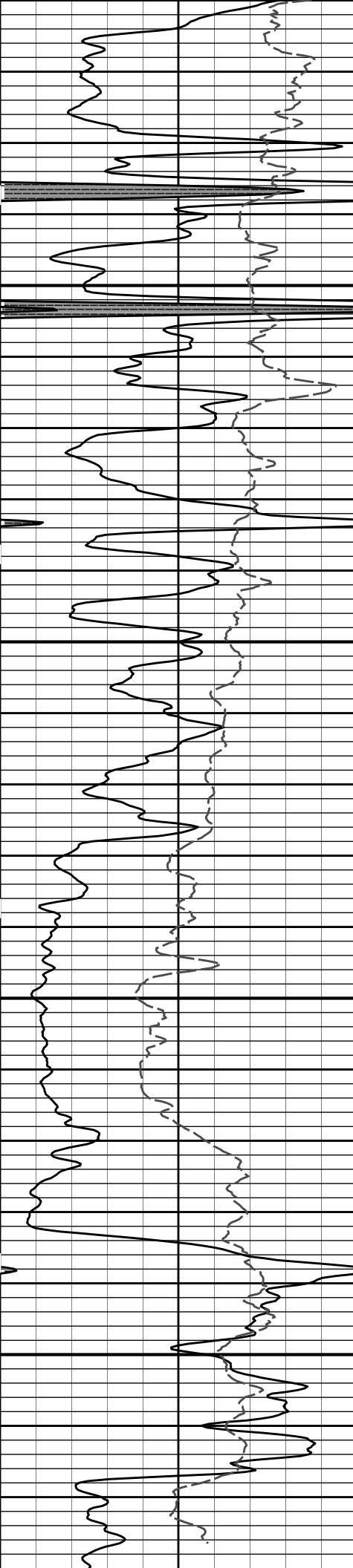
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 23-May-13 16:20:59
Plot Range: 4650 ft to 4928.42 ft
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Plot File: \\-LOCAL-\\BLESSED_ACRES\0001 SP-GTET-DSN-SDL-ACRT-CHI\ACRT\ACRT_5_repeat_lib

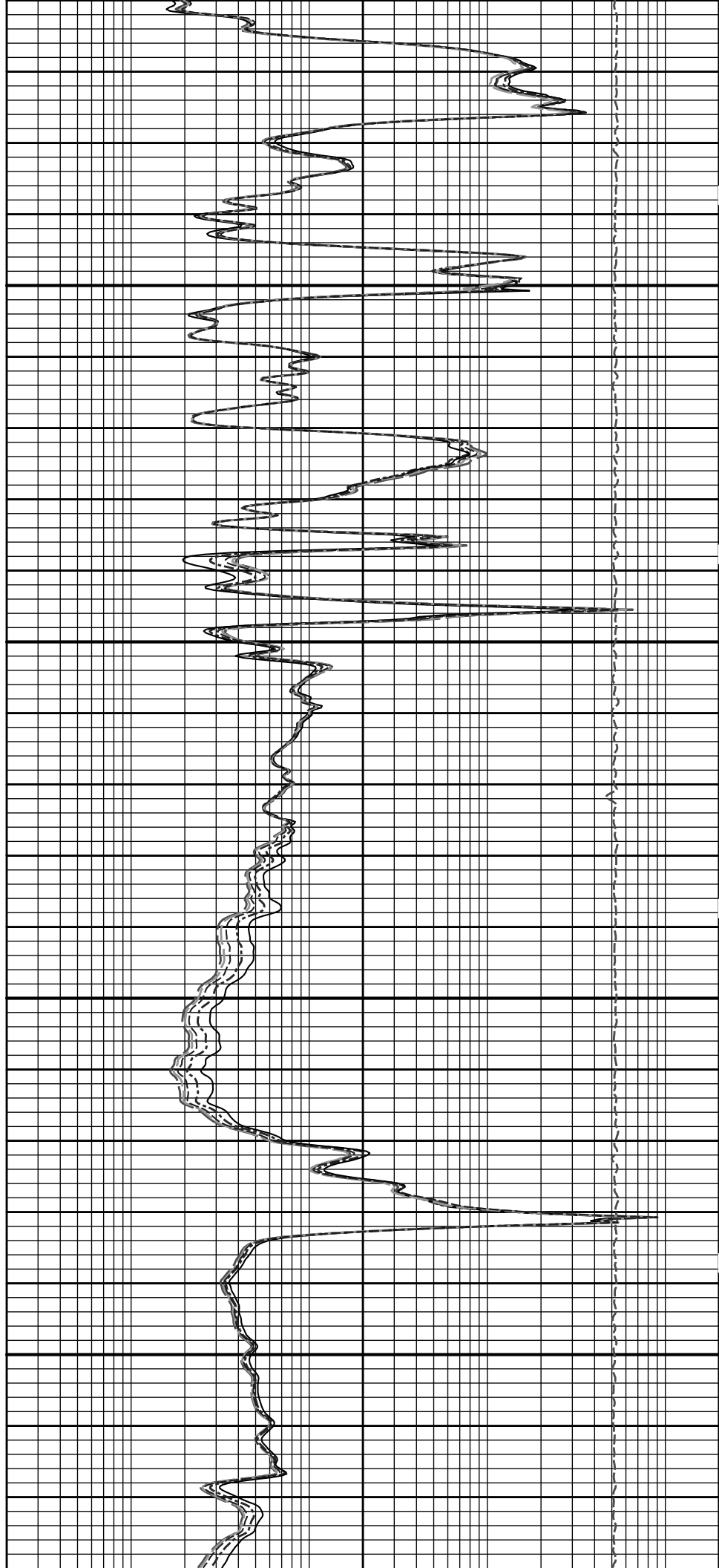
REPEAT SECTION

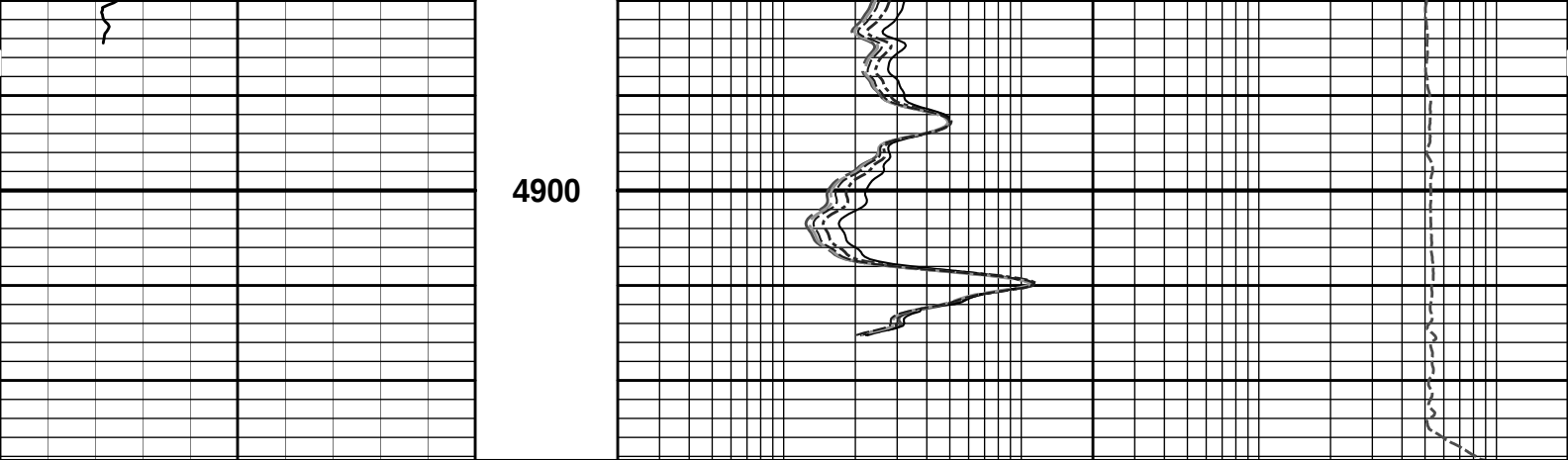




4700

4800





SP -]20[+	MD 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

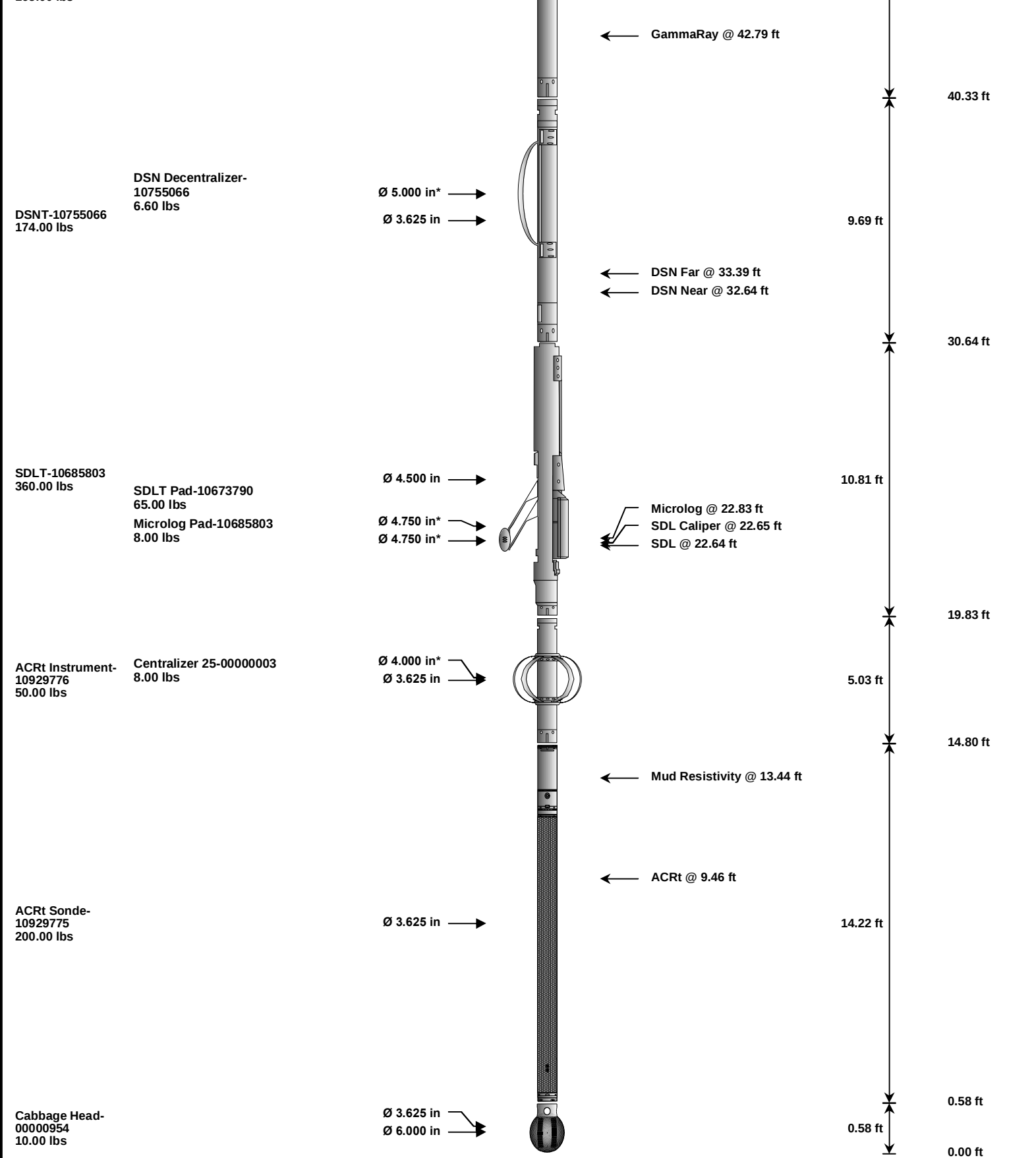
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REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-954 37.50 lbs		Ø 2.750 in →		← Temperature @ 55.54 ft	3.03 ft	56.57 ft
XOHD-00000001 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	53.54 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft
						48.85 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →			8.52 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	954	37.50	3.03	53.54	300.00
XOHD	Hostile to Dits Cross Over	00000001	20.00	0.95	52.59	300.00
SP	SP Sub	12345678	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	10755066	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	*	33.97
SDLT	Spectral Density Tool	10685803	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55	*	22.04

MICP	Microlog Pad	10685803	8.00	1.00	*	22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10929776	50.00	5.03		14.80	300.00
OBCEN	Centralizer - 25 in. Overbody	00000003	8.00	2.08	*	16.29	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10929775	200.00	14.22		0.58	300.00
CBHD	Cabbage Head	00000954	10.00	0.58		0.00	300.00
Total			1,164.10	56.57			
* Not included in Total Length and Length Accumulation.							Date: 23-May-13 11:52:49
Data: BLESSED_ACRES\0001 SP-GTET-DSN-SDL-ACRT-CH\IDLE							

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 10811258	Reference Calibration Date:	15-Apr-13 13:29:21
Engineer:	S. INGERSOLL	Calibration Date:	28-Apr-13 06:43:47
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
	Background	21.8	21.9
	Background + Calibrator	252.7	253.9
	Calibrator	230.9	232.0

NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 10811258	Reference Calibration Date:	28-Apr-13 06:43:47	
Engineer:	S. INGERSOLL	Calibration Date:	23-May-13 11:40:54	
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				
Field Verification		Shop	Field	Units
Background		21.9	22.8	api
Background + Calibrator		253.9	255.8	api
Calibrator		232.0	233.1	api
Shop		Field	Difference	Tolerance
232.0		233.1	-1.1	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 10929775	Reference Calibration Date:	07-Mar-13 15:26:52
Engineer:	S. INGERSOLL	Calibration Date:	04-May-13 10:38:01
Software Version:	WL INSITE R3.8.4 (Build 5)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10929776		

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	1.02	1.05
A2 (50")	0.95	1.02	1.05	0.95	1.03	1.05	0.95	1.02	1.05
A3 (20")	0.95	1.00	1.05	0.95	1.01	1.05	0.95	1.00	1.05

A3 (29")	0.95	1.00	1.05	0.95	1.01	1.05	0.95	1.00	1.05
A4 (17")	0.95	1.01	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	1.01	1.05	0.95	1.01	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	-2.11	2	-6	-4.70	-2	-8	-4.78	-2
A2 (50")	-7	-3.07	0	-7	-4.40	0	-7	-4.53	0
A3 (29")	-27	-15.03	-9	-9	-4.72	-3	-7	-2.87	-1
A4 (17")	-180	-103.09	-60	-45	-32.31	-15	-39	-25.18	-13
A5 (10")	N/A	N/A	N/A	-150	-118.23	-50	-80	-54.78	-10
A6 (6")	N/A	N/A	N/A	175	280.66	525	90	139.71	270
TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION				
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)	
12K		0.6	0.85	1.3	Mud Cell	0.95	0.99	1.05	
36K		1.0	1.18	2.0					
72K		1.0	1.46	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-10811258									
Gamma Ray Calibrator	232.0	233.1	-----	-1.1	+/- 9.00	api			
ACRt Sonde-10929775									
Mud Cell	0.99	-----	-----	0.00	-----	ohm-m			
Data: BLESSED_ACRES\0001 SP-GTET-DSN-SDL-ACRT-CHIIDLE									
Date: 23-May-13 11:55:35									
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	2.000	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	4925.00	ft
SHARED	BHT	Bottom Hole Temperature	200.0	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	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	DNSO	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				

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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	
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	
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: BLESSED_ACRES\0001 SP-GTET-DSN-SDL-ACRT-CHIDLE

Date: 23-May-13 11:55:13

COMPANY	HERMAN L. LOEB, LLC		
WELL	BLESSED ACRES 2-18		
FIELD	WILDCAT		
COUNTY	KIOWA	STATE	KANSAS

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ARRAY COMPENSATED TRUE RESISTIVITY LOG

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Plot Time: 23-May-13 16:21:02

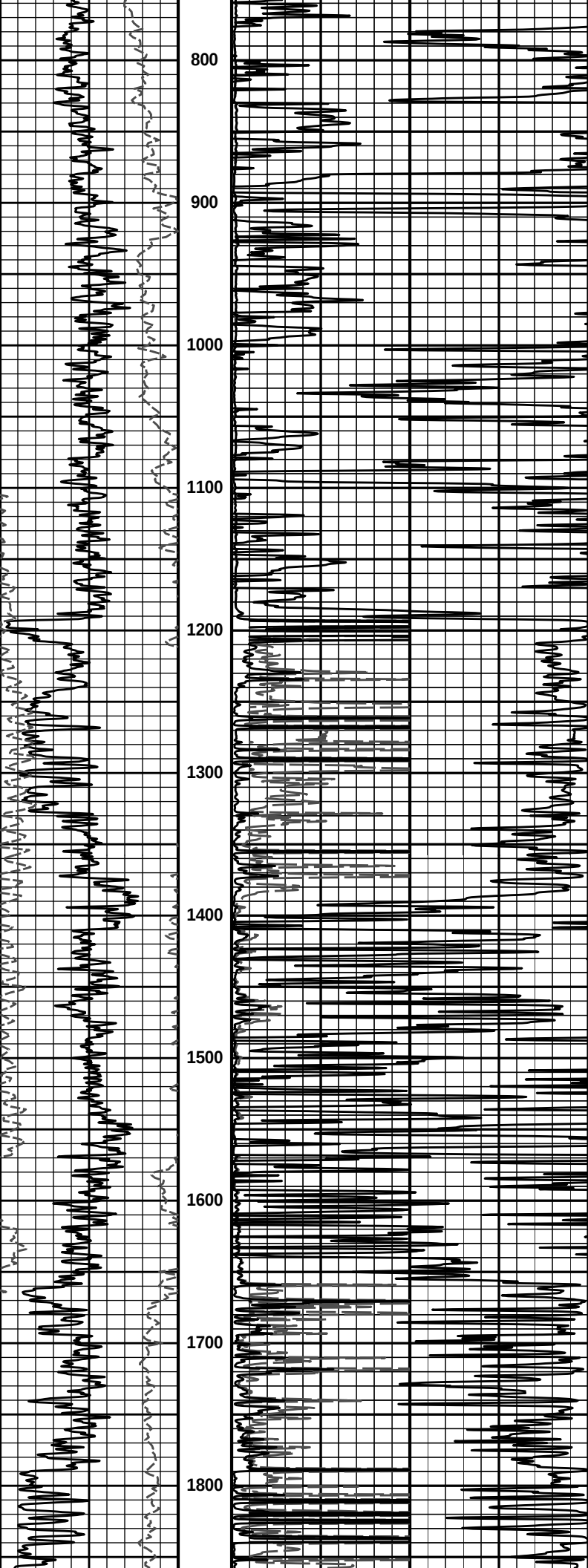
Plot Range: 570 ft to 4914 ft

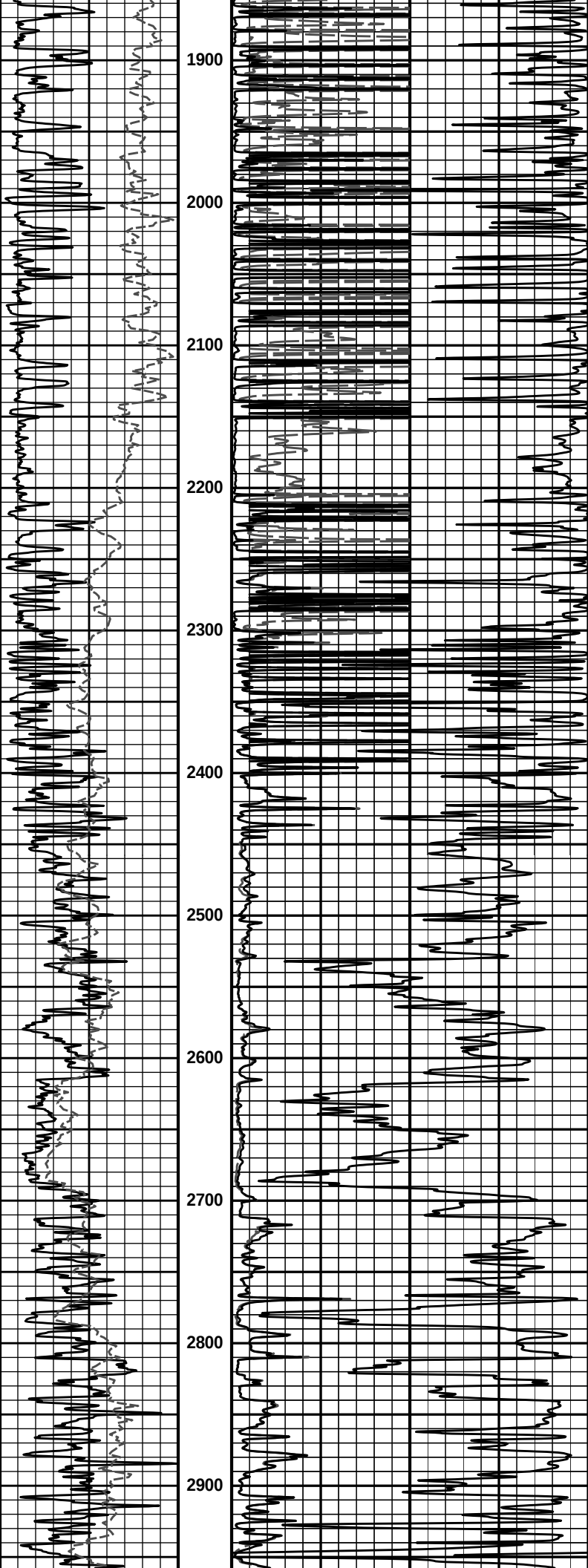
Data: BLESSED_ACRES\Well Based\CASING_RUN1\

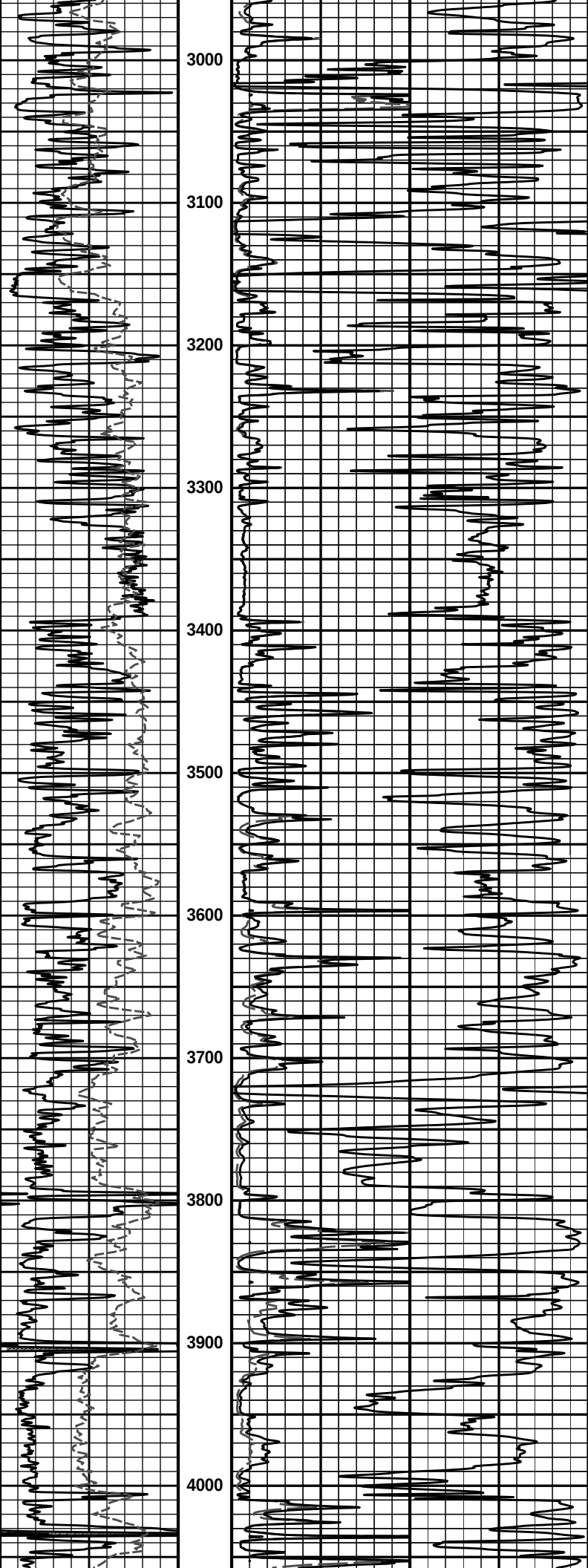
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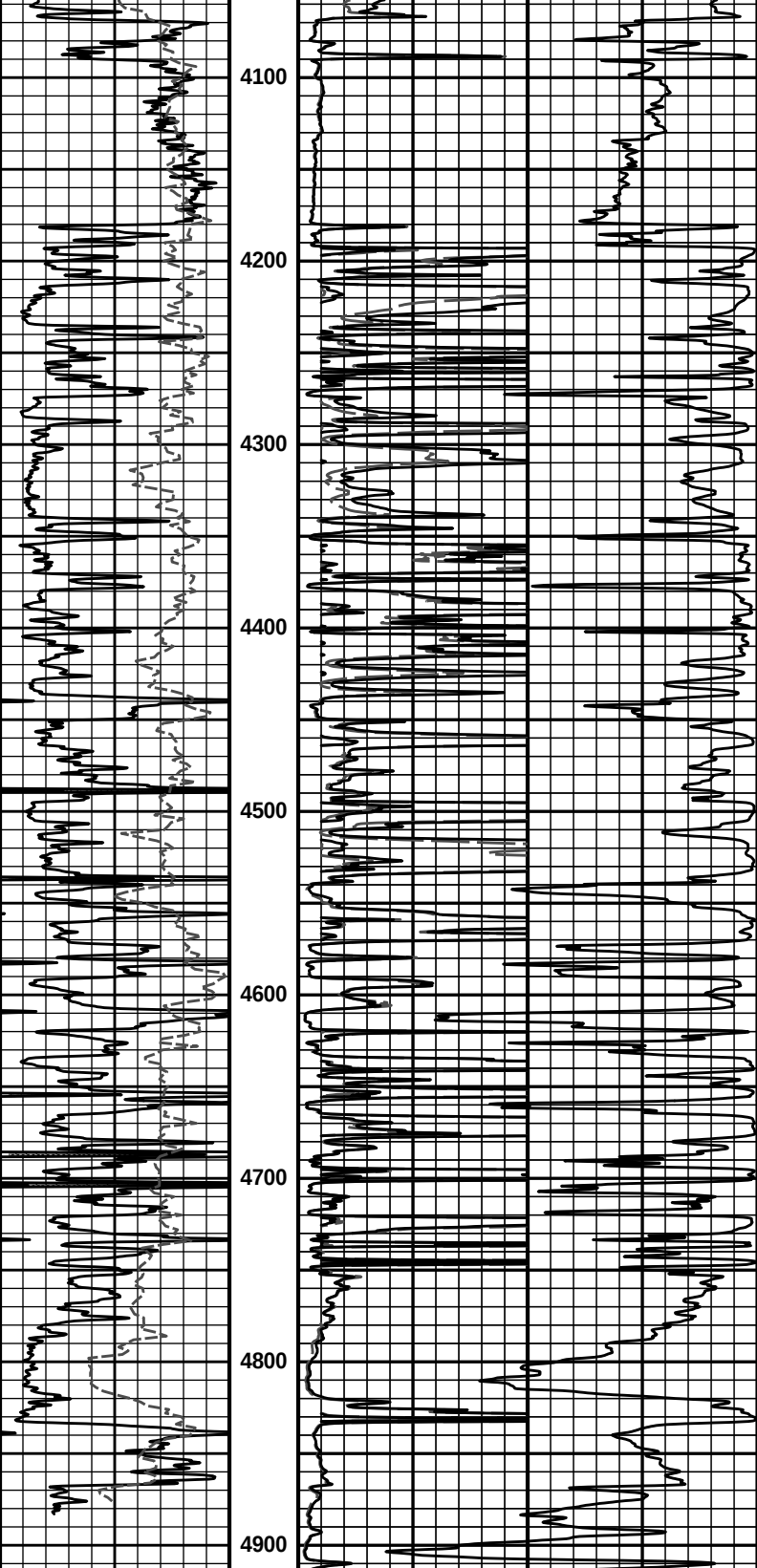
1 INCH MAIN LOG

		1000		90in Conductivity 2ft Res		0	
				mmho per metre			
SP				90in Resistivity 2ft Res			
-]20[+				0 50			
Gamma API		MD		20in Resistivity 2ft Res			
0	150	1 : 1200		0 50			
api		ft		ohm-metre			
		600					
		700					









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

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Plot Time: 23-May-13 16:21:07
 Plot Range: 570 ft to 4914 ft
 Data: BLESSED_ACRES\Well Based\CASING_RUN1
 Plot File: \\LOCAL-IBLESSED_ACRES\0001 SP-GTET-DSN-SDL-ACRT-CHI...ACRT_1.lib

1 INCH MAIN LOG