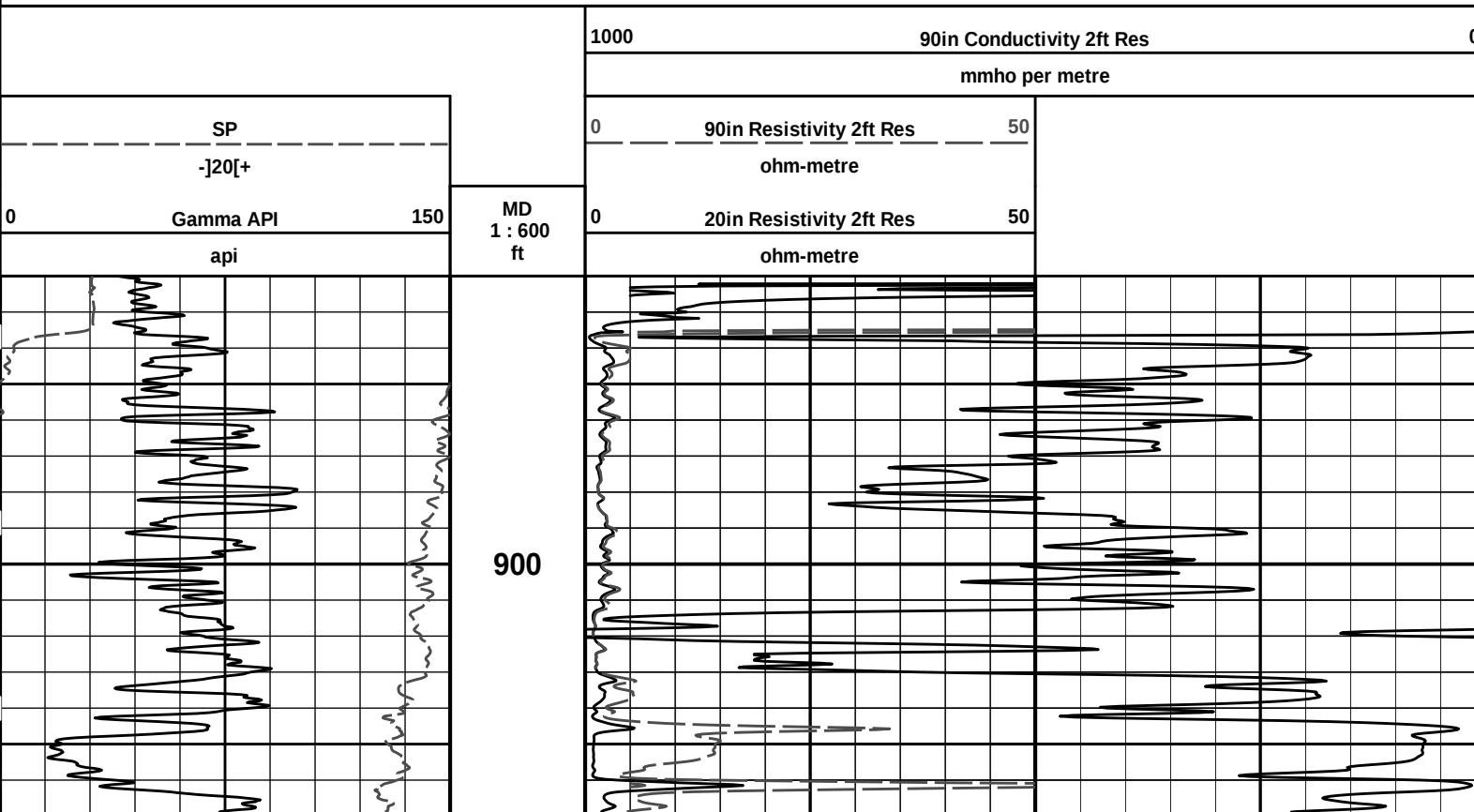


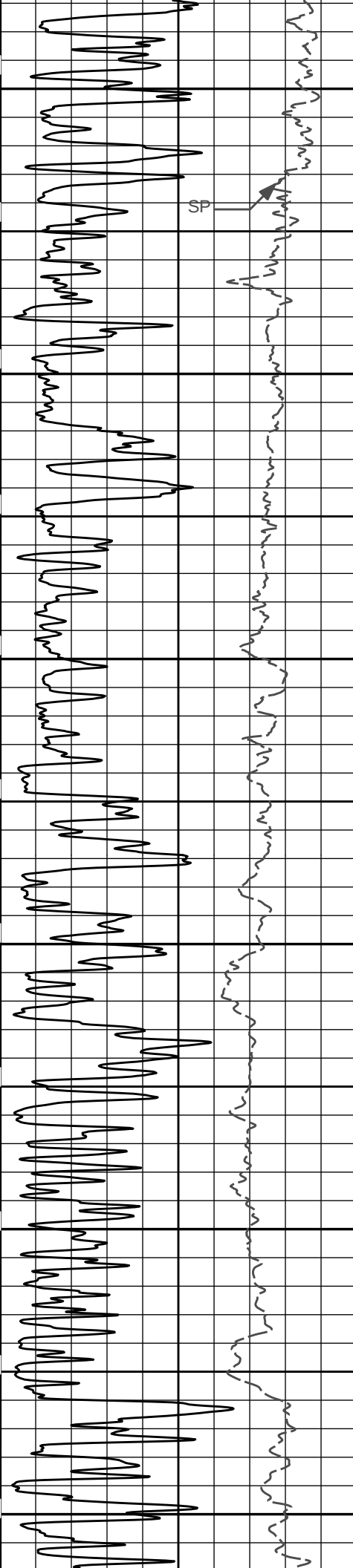
ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

----- 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	5352	835	REC	0	150									
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5-INCH CASING														
CHLORIDES REPORTEDE AT 9,800 MG/L														
GTET-CSNG-DSNT-SDLT-XRMI-WAVE-ACRT RUN IN COMBINATION														
TODAY'S CREW: B. TERRELL & M. LONDON														
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														





1000

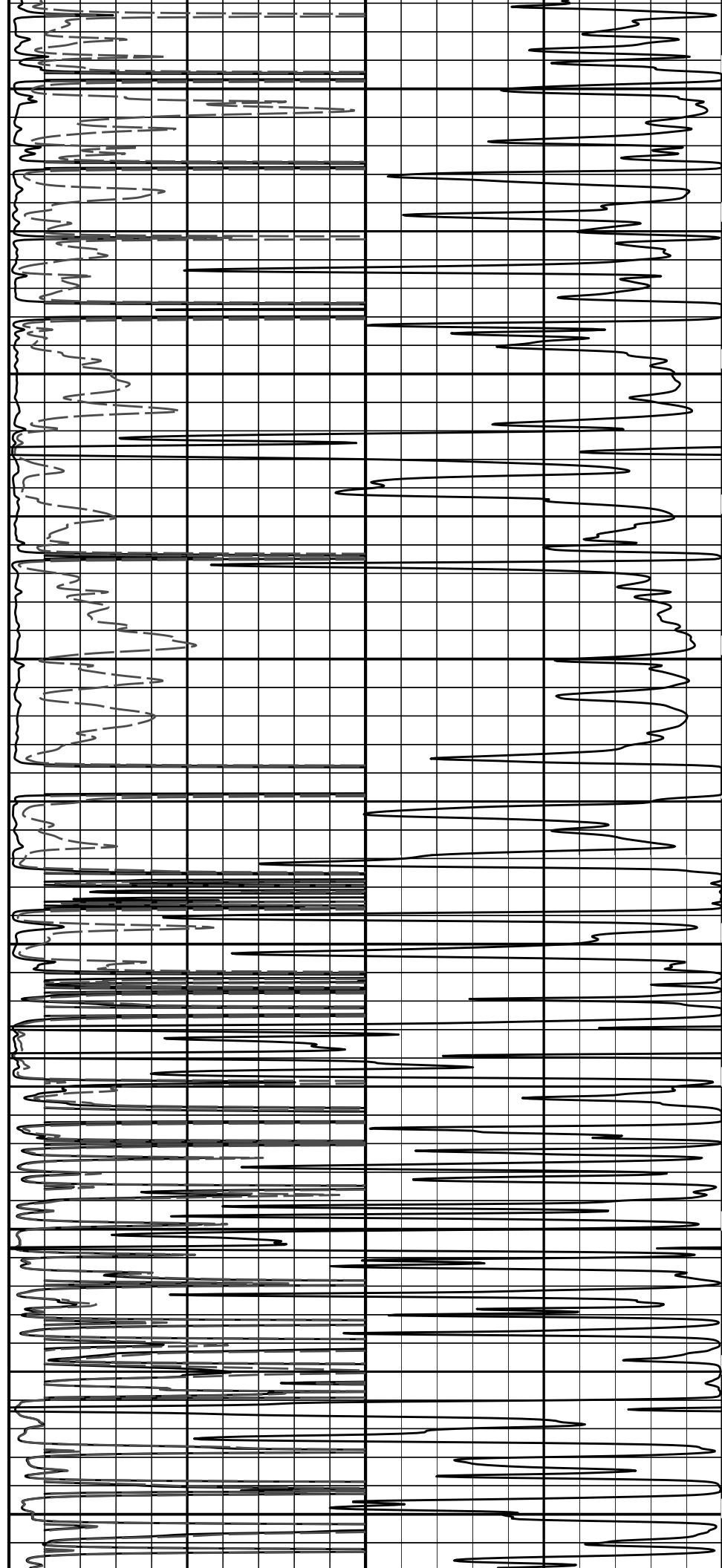
1100

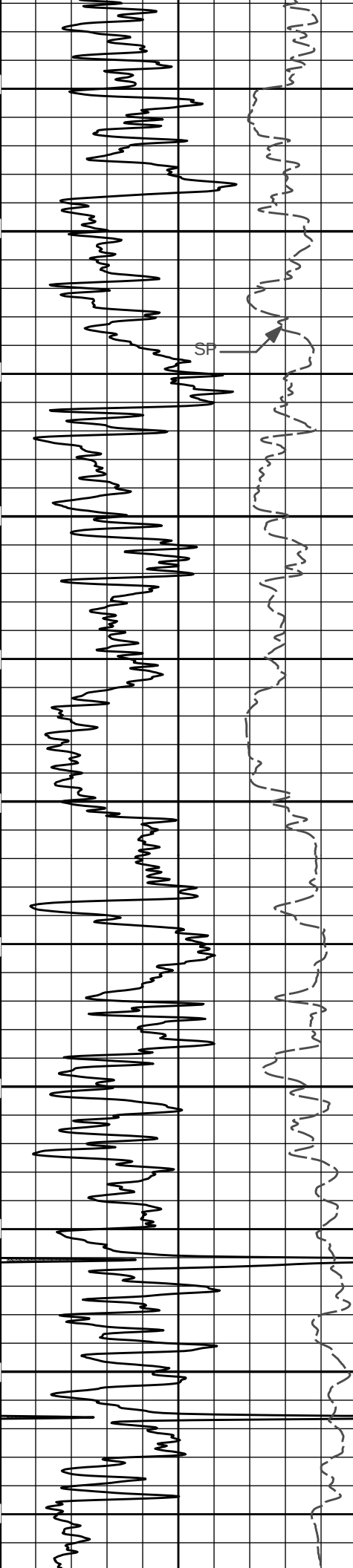
1200

1300

1400

1500





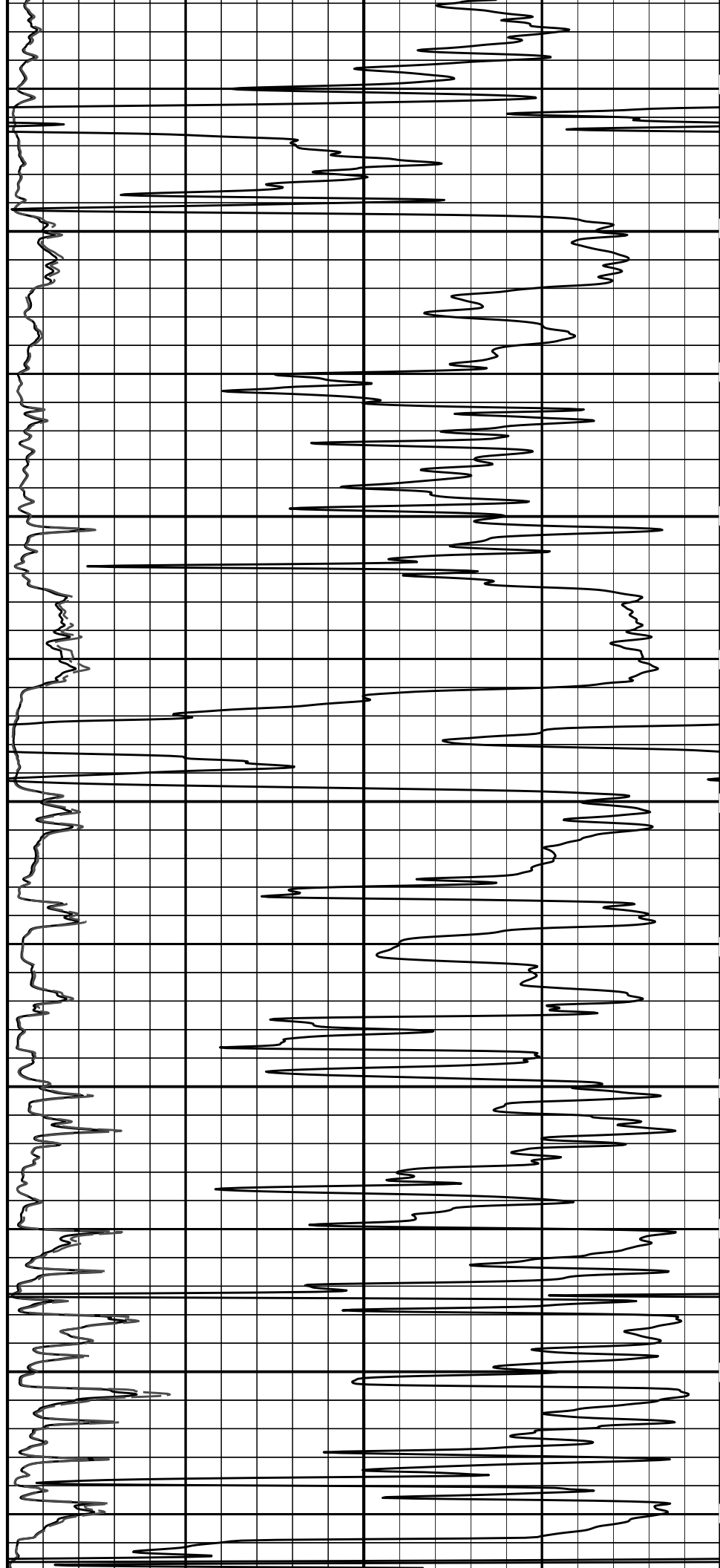
1600

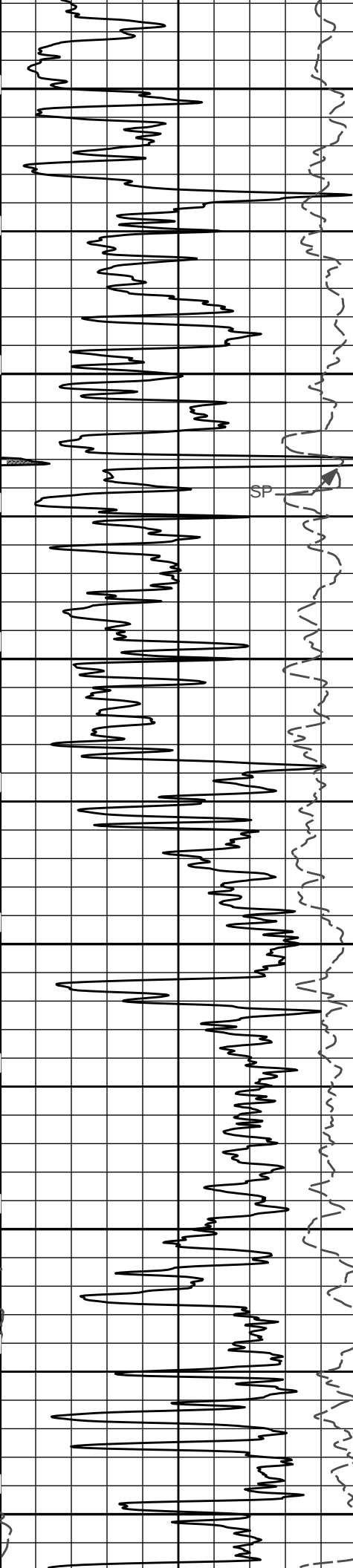
1700

1800

1900

2000





2100

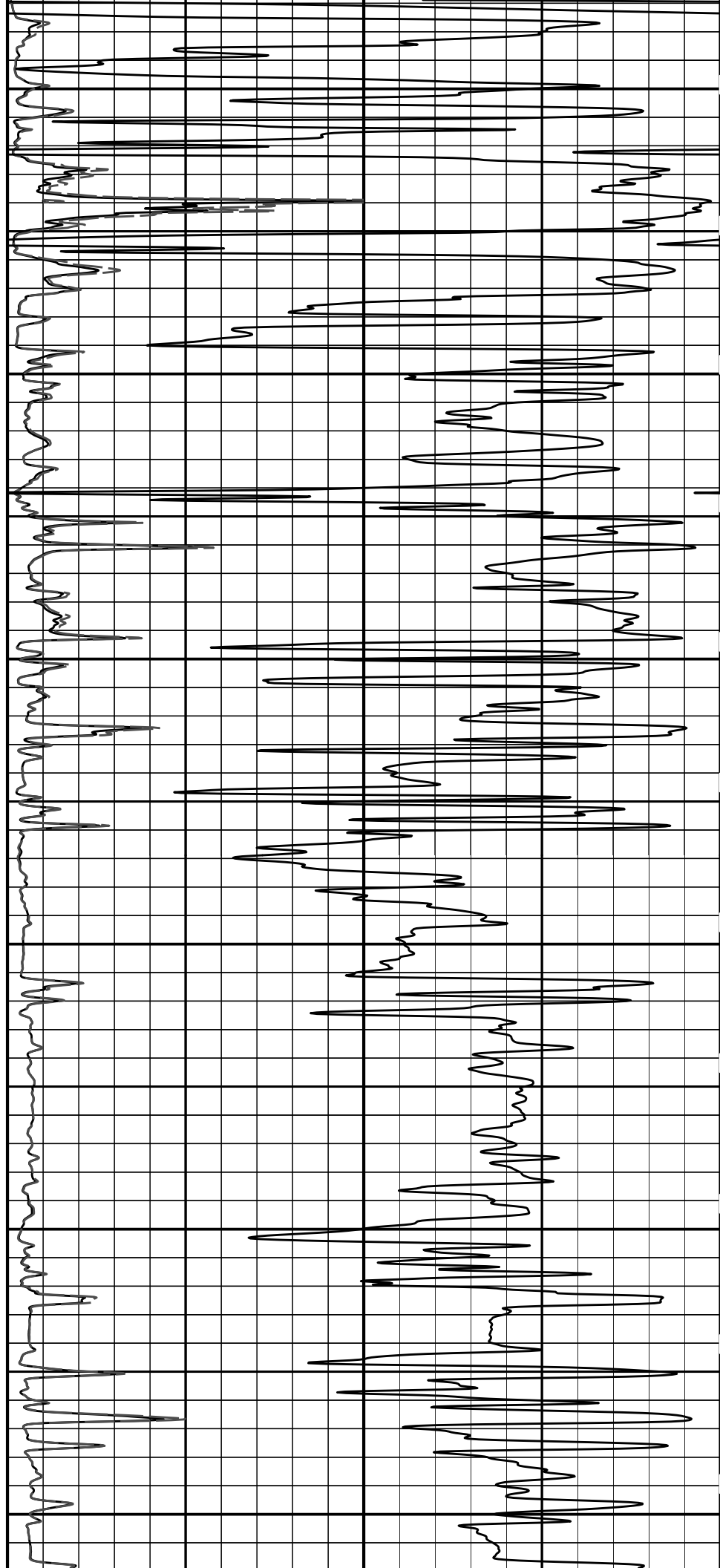
2200

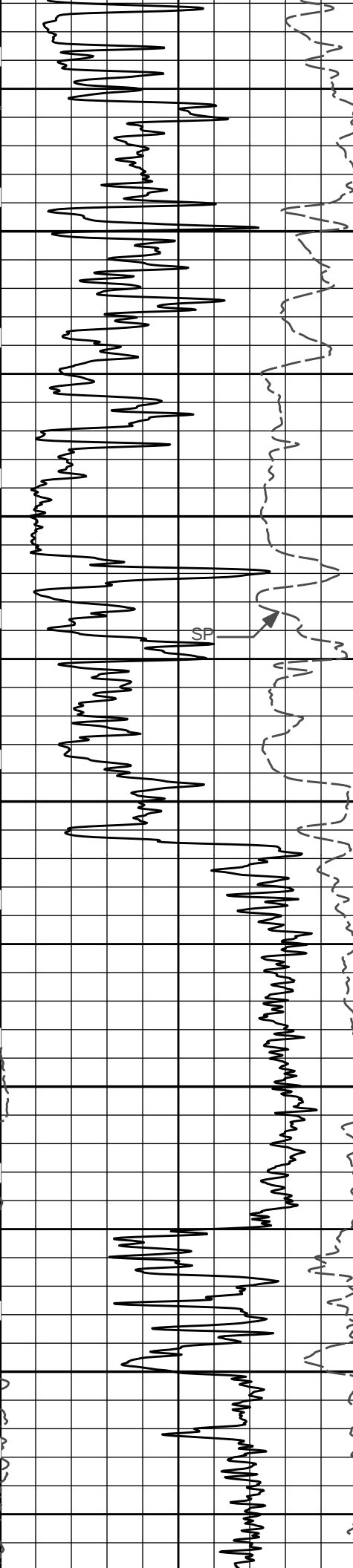
2300

2400

2500

2600





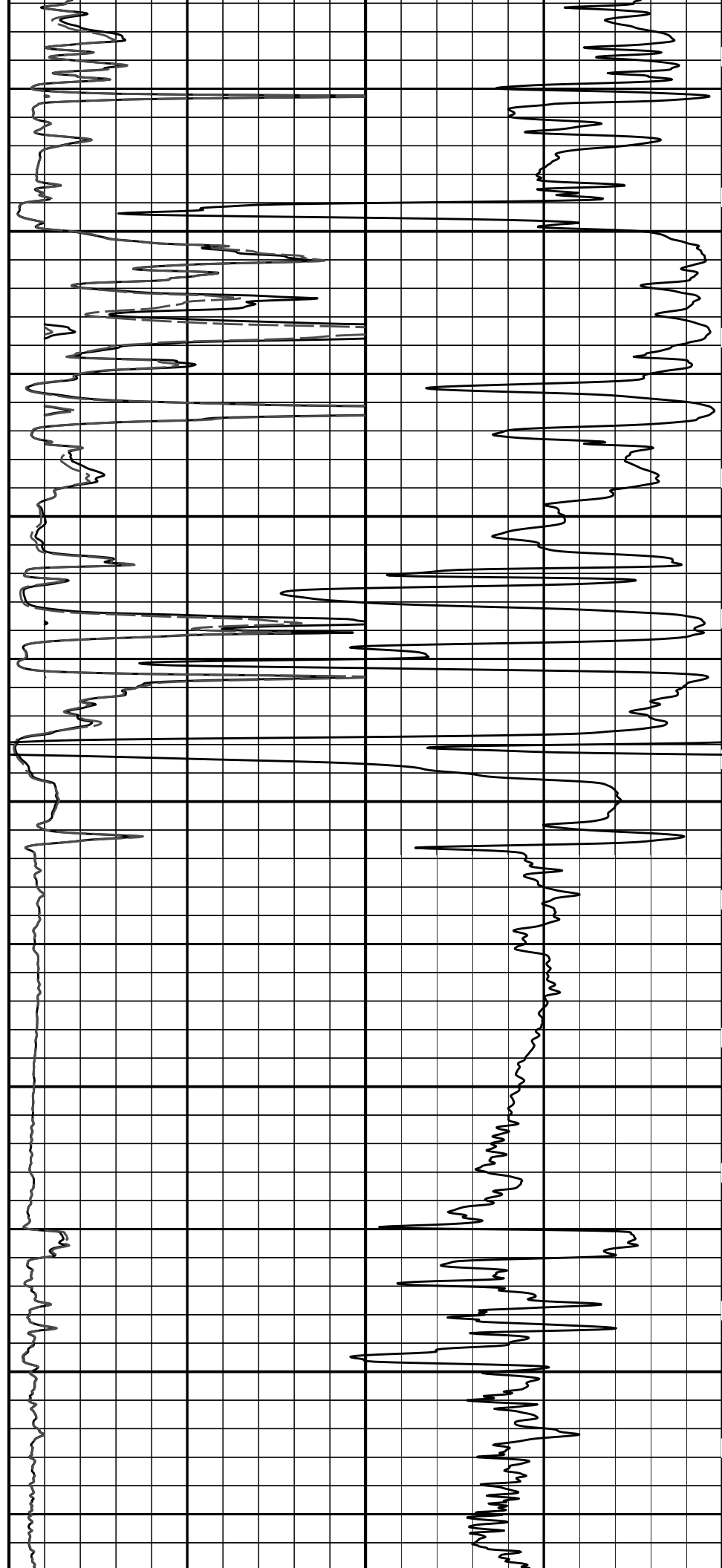
2700

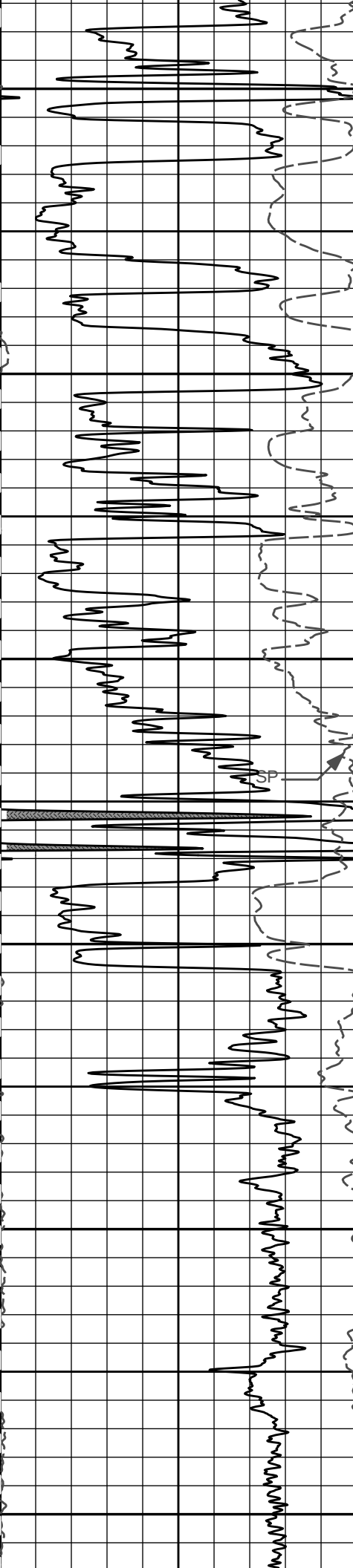
2800

2900

3000

3100





3200

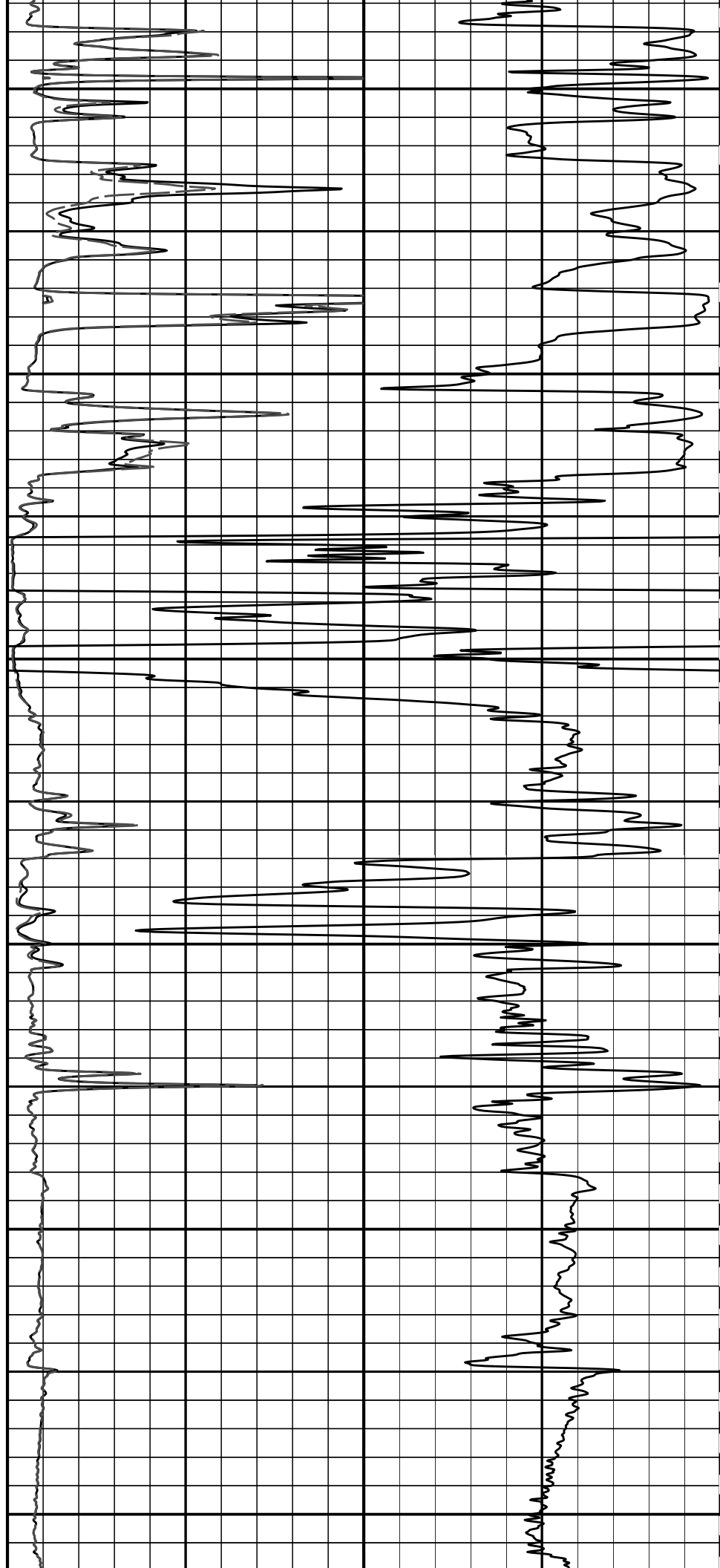
3300

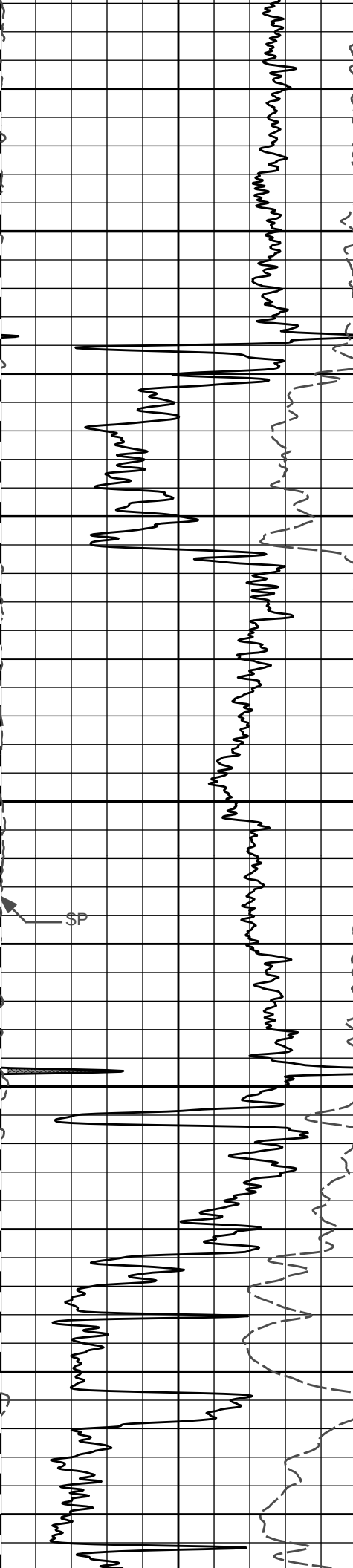
3400

3500

3600

3700





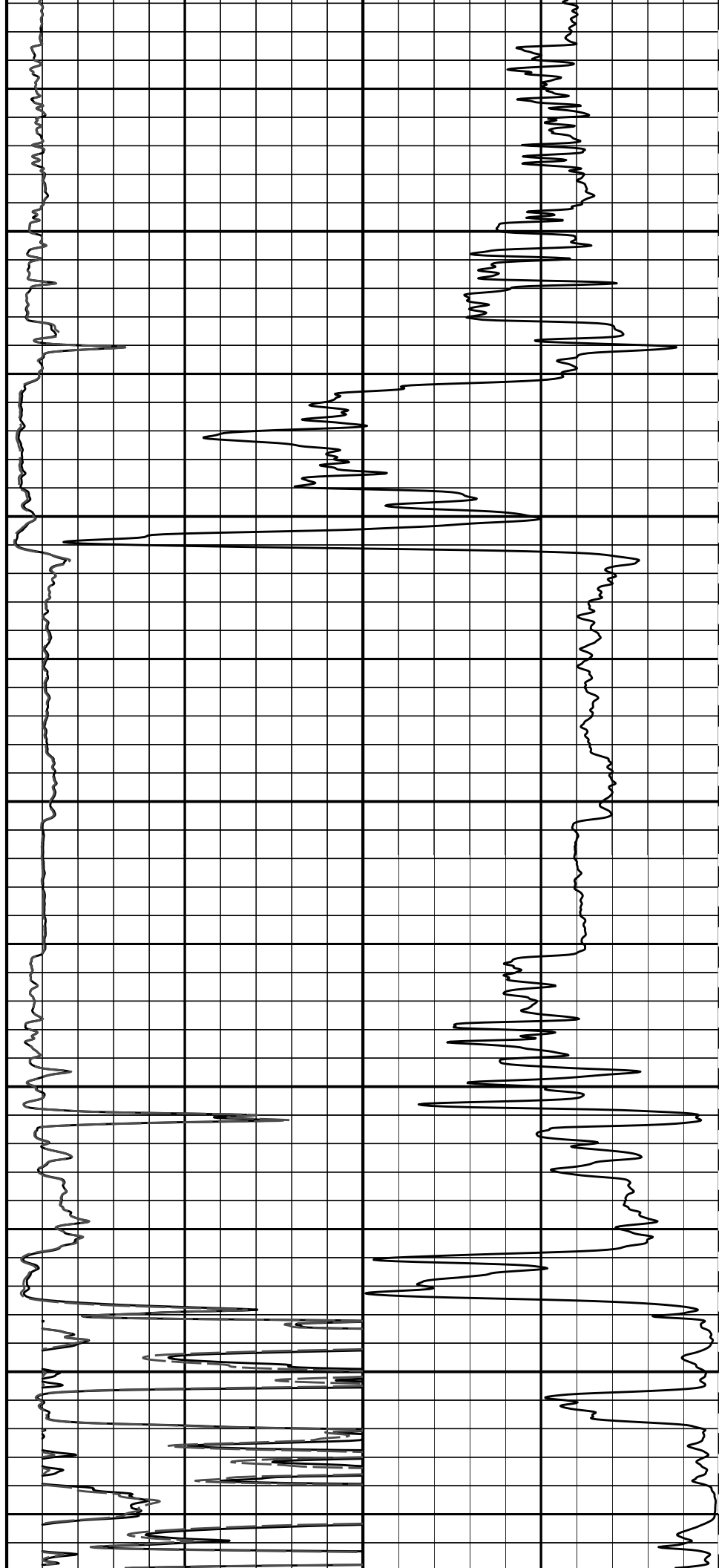
3800

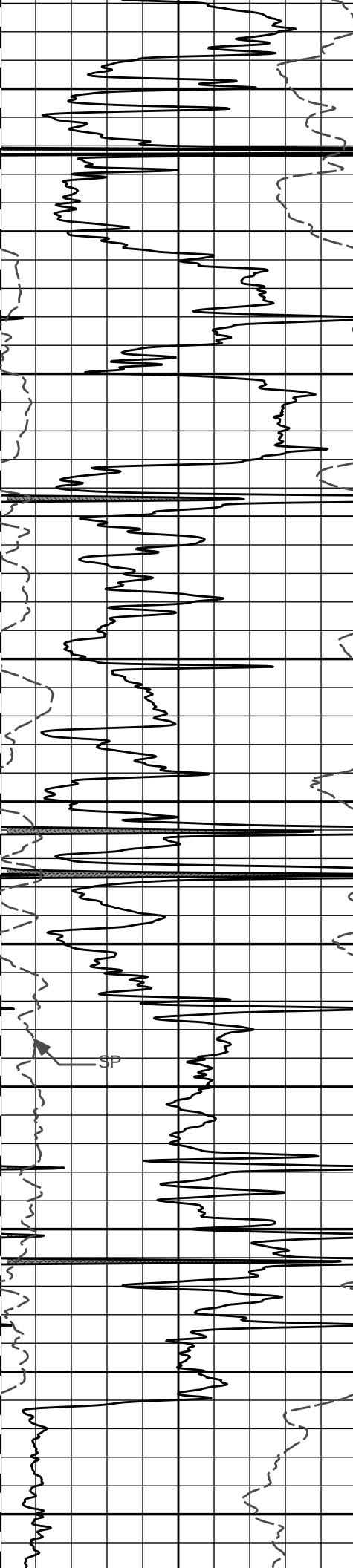
3900

4000

4100

4200





4300

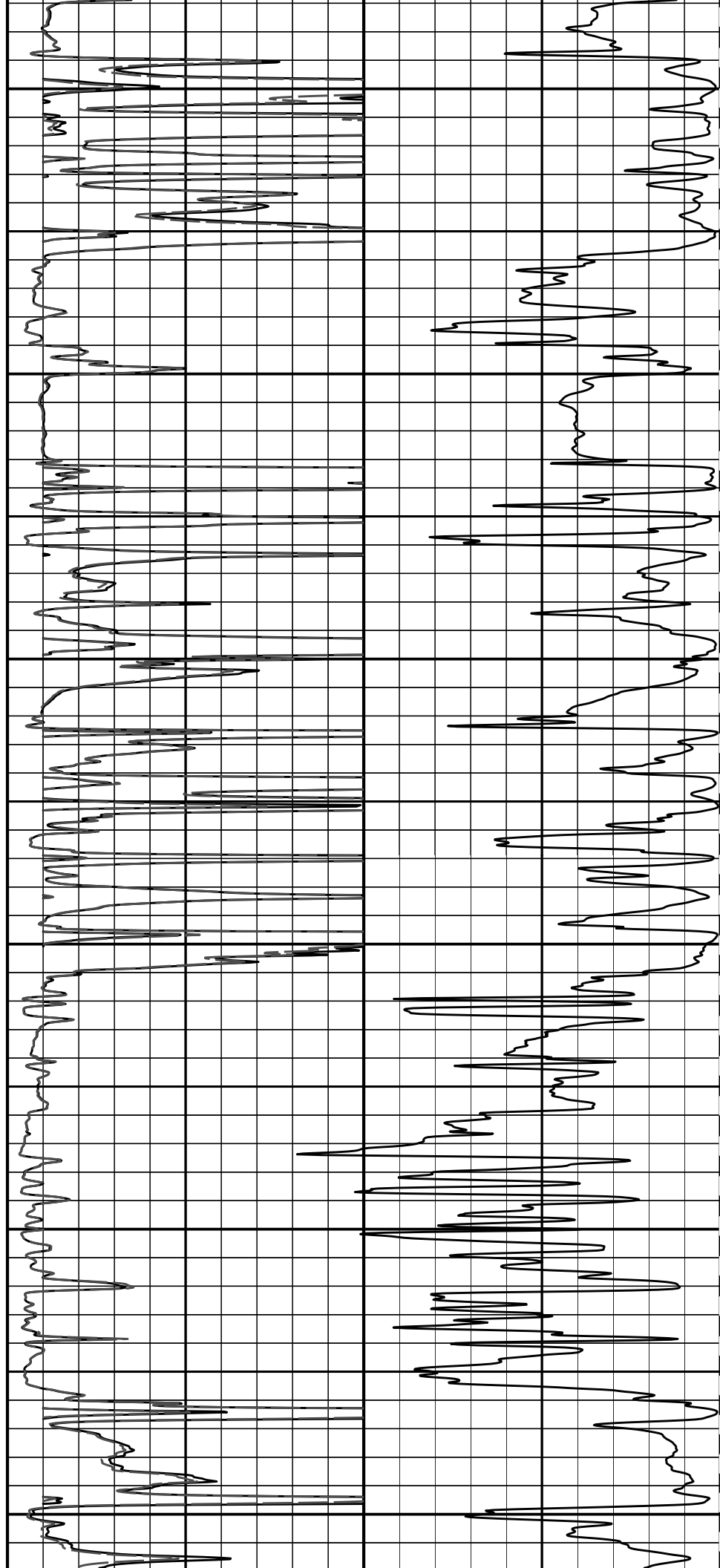
4400

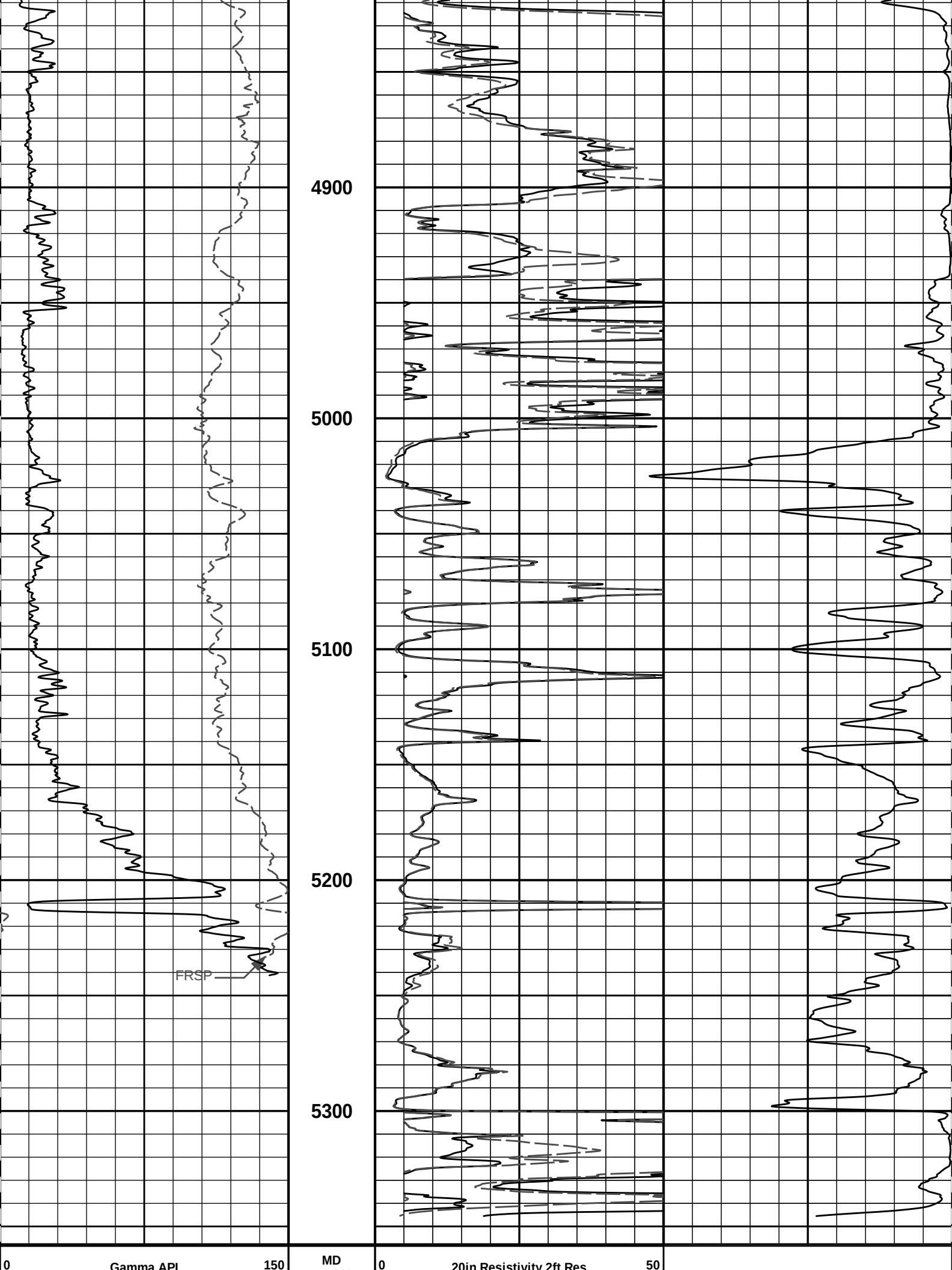
4500

4600

4700

4800





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

HALLIBURTON

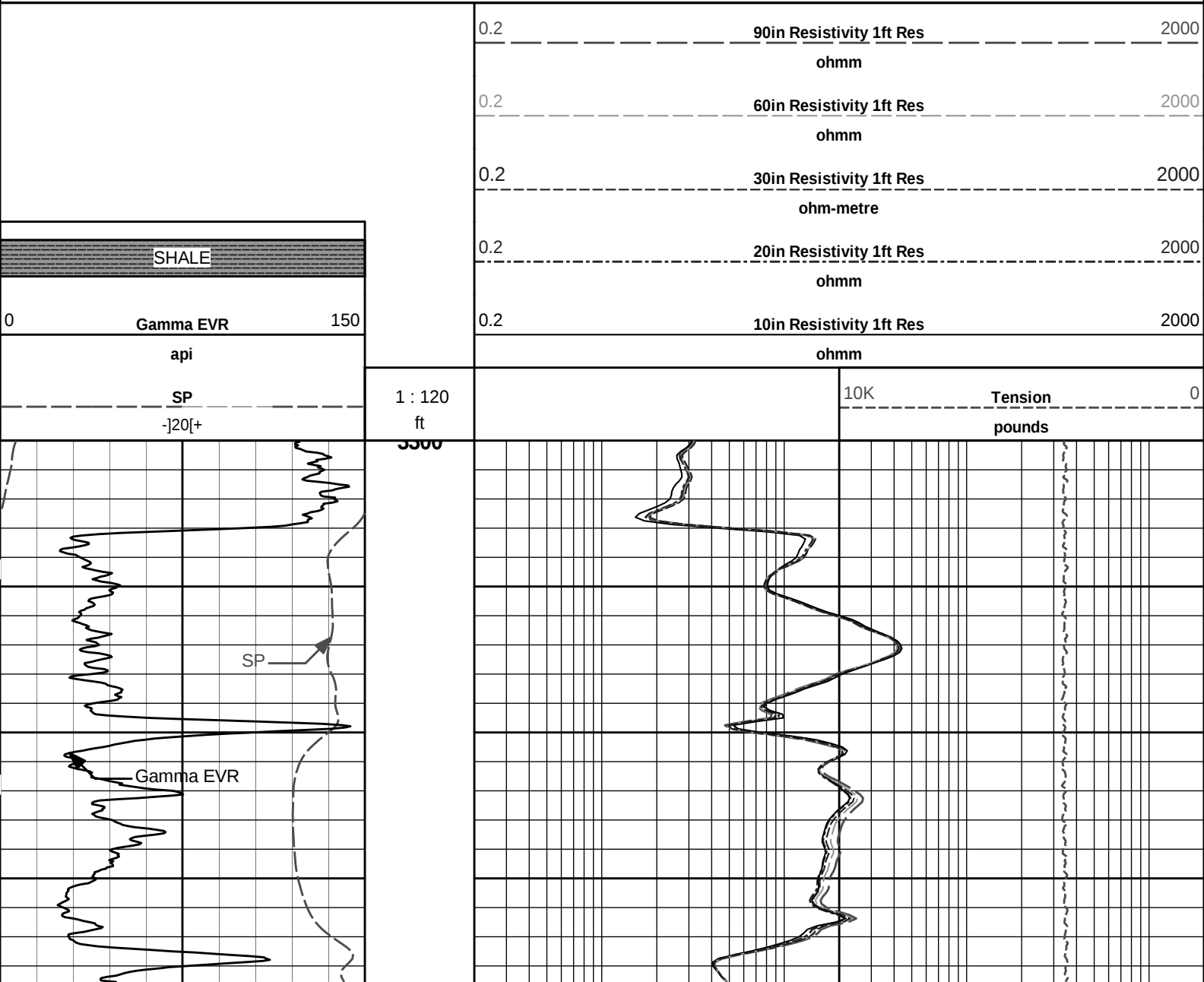
Plot Time: 19-Jul-13 23:13:52
Plot Range: 820 ft to 5357.67 ft
Data: NANCY_3507_1-10\Well Based\CASING\
Plot File: \\-LOCAL-INANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CHIACRT\ACRT_2_lib

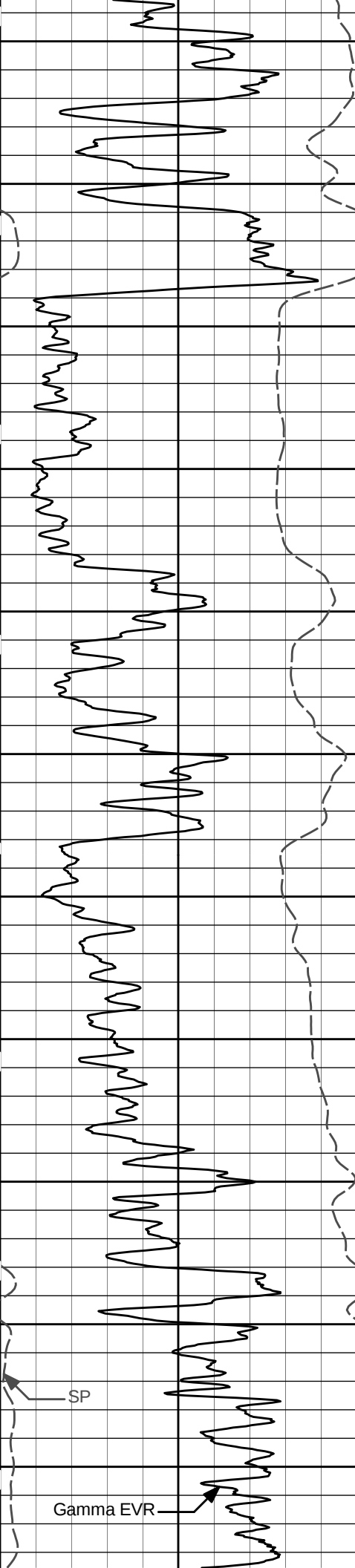
2 INCH MAIN LOG

HALLIBURTON

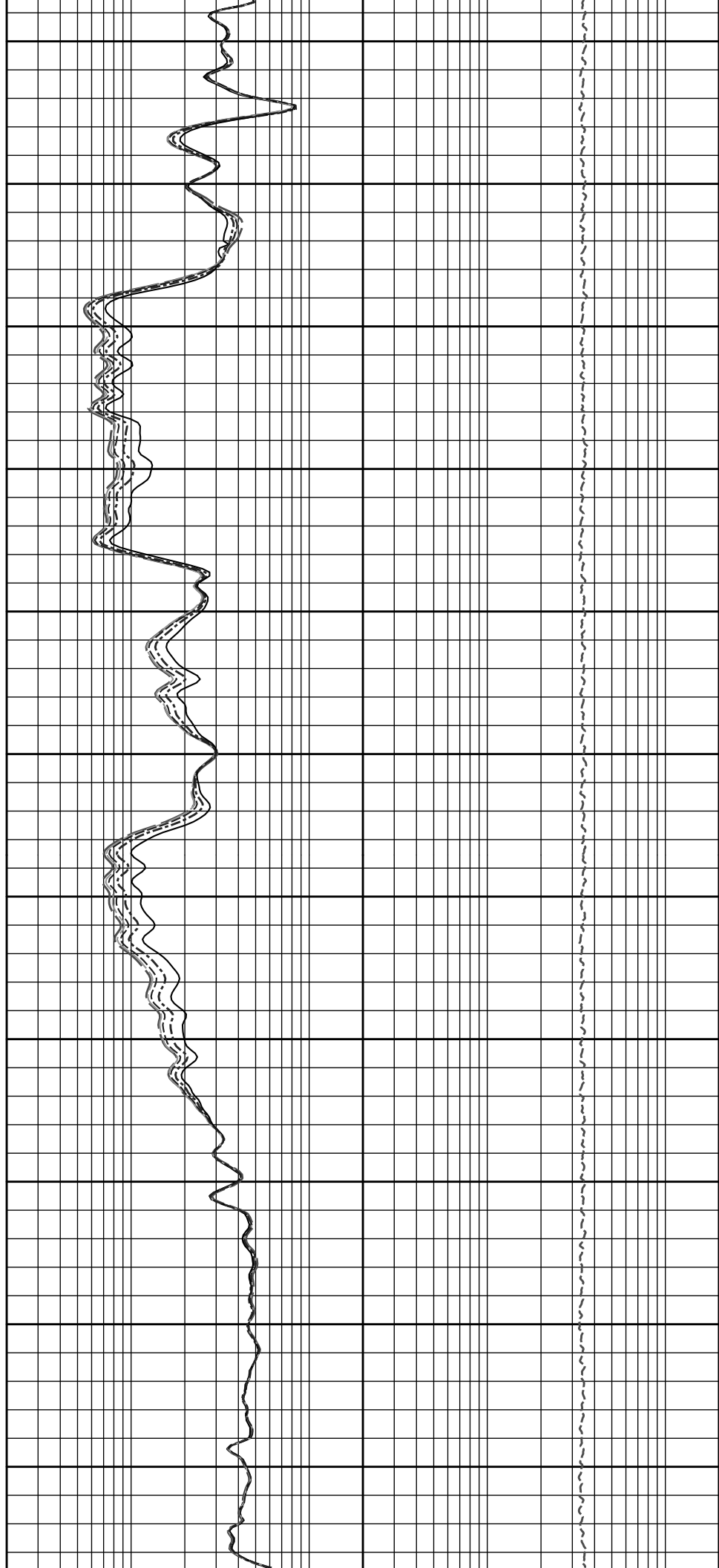
Plot Time: 19-Jul-13 23:13:52
Plot Range: 3300 ft to 5357.67 ft
Data: NANCY_3507_1-10\Well Based\DETAIL\
Plot File: \\-LOCAL-INANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CHIACRT\ACRT_5_EVR_LIB

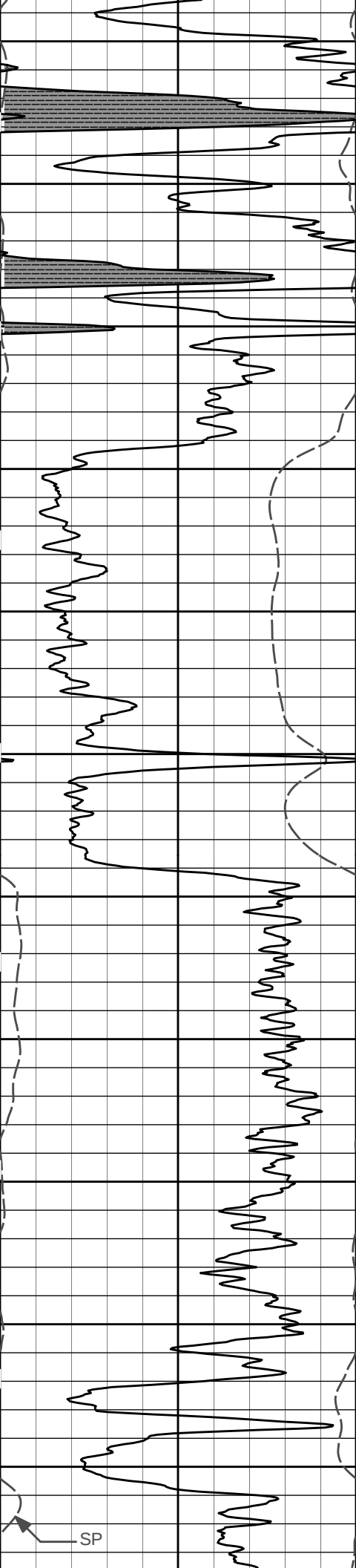
MAIN SECTION 10" PER 100'



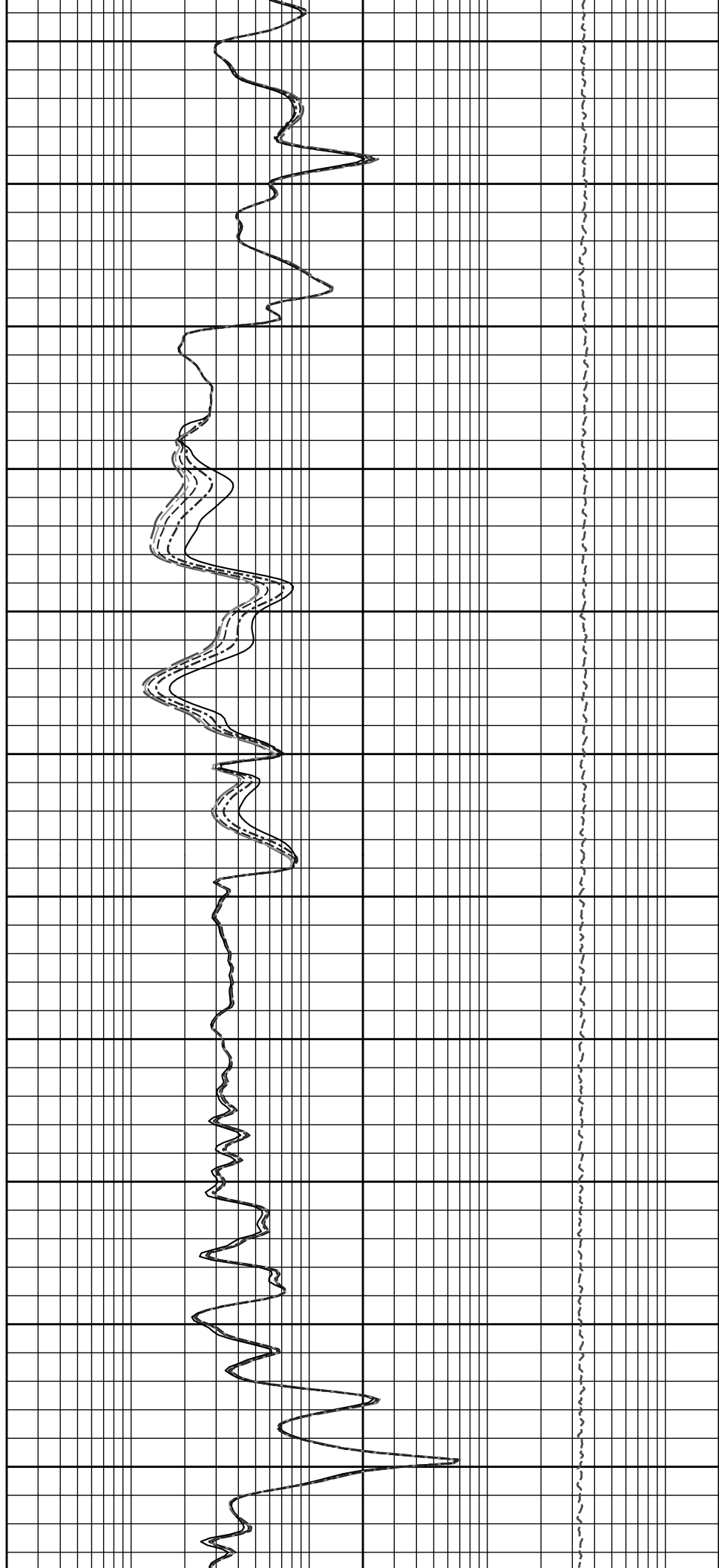


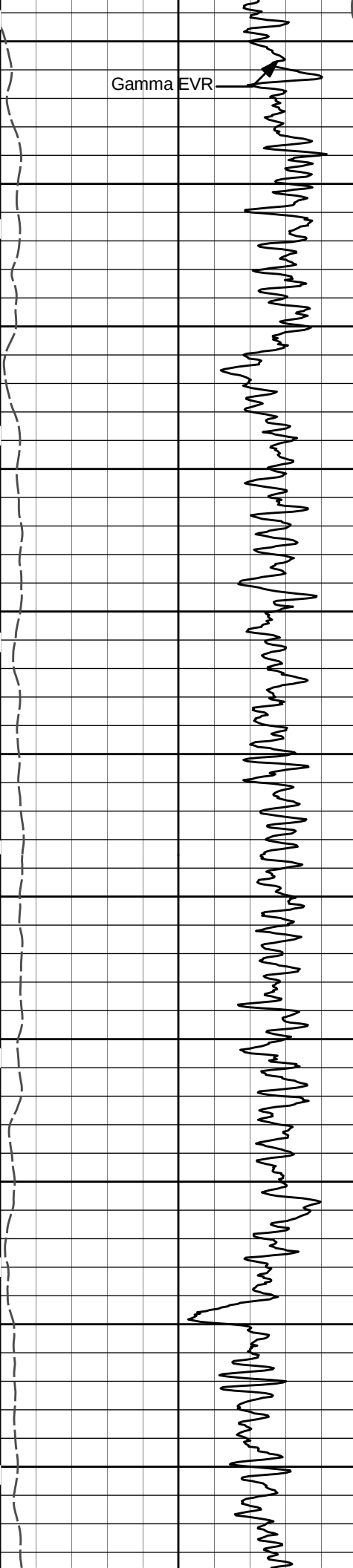
3400



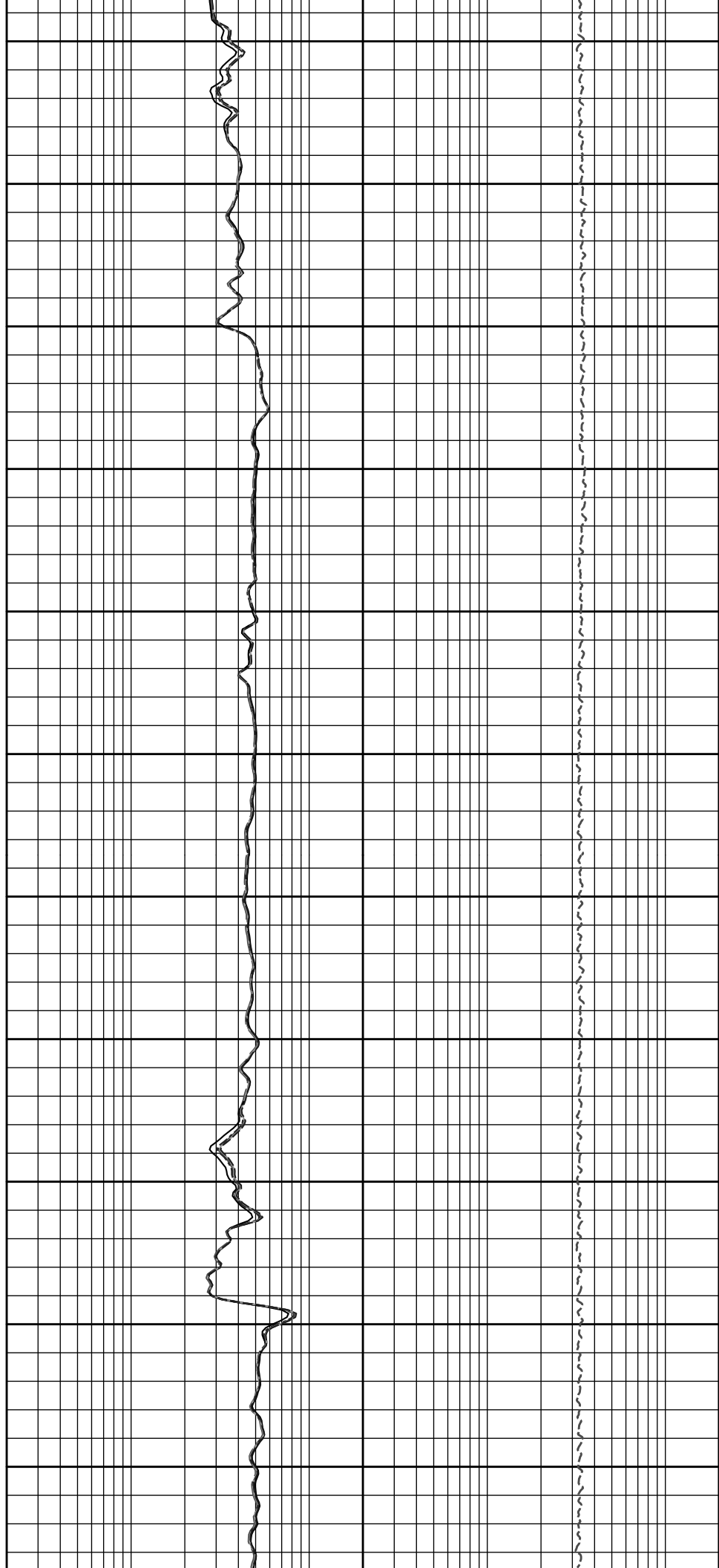


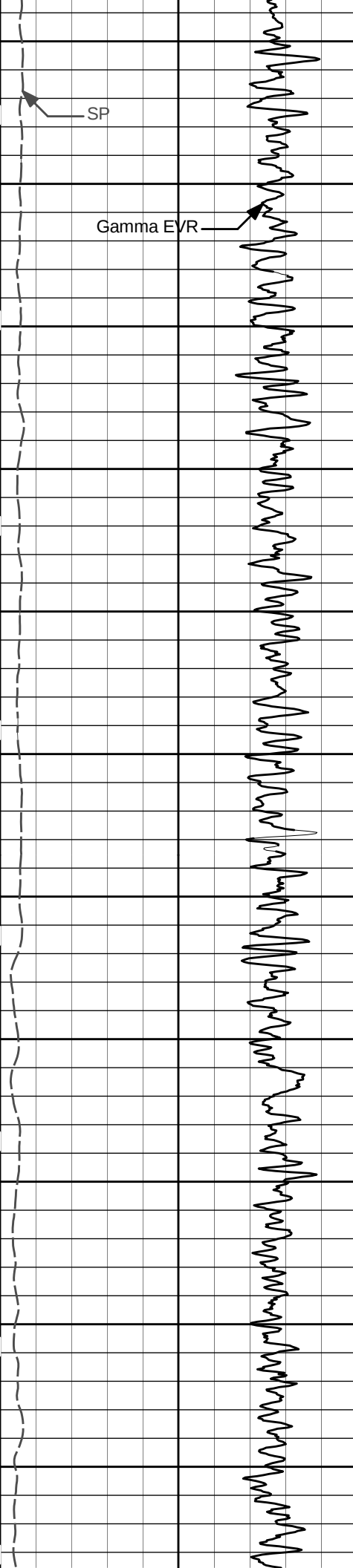
3500



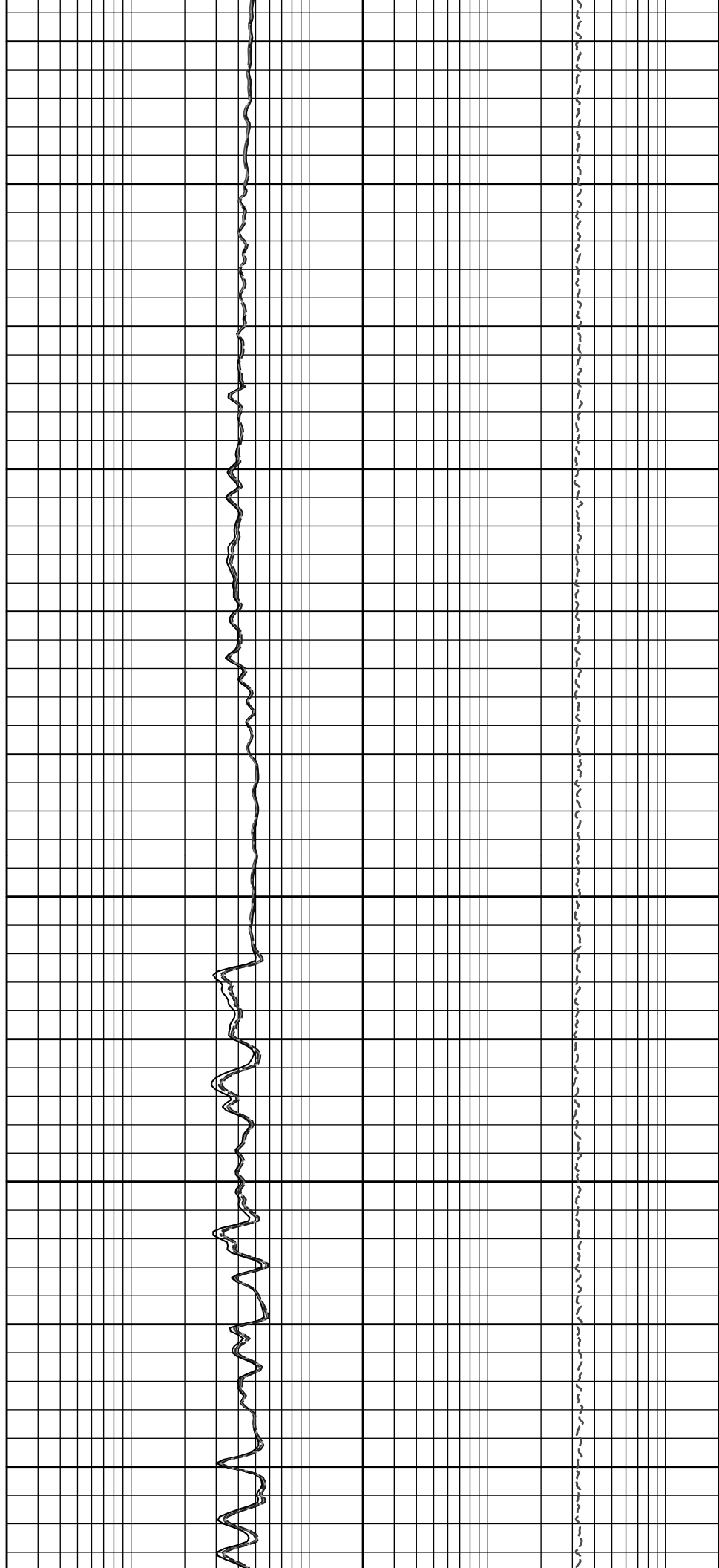


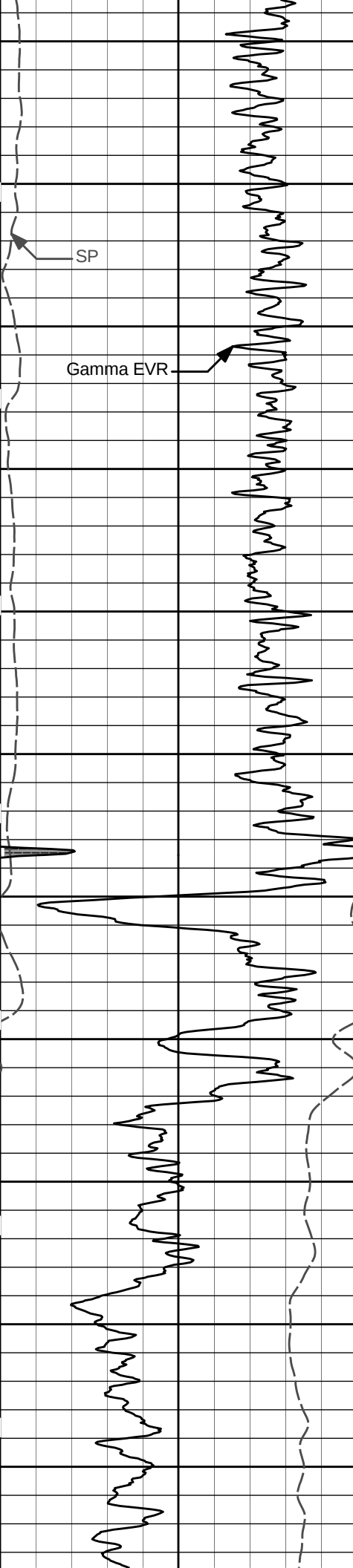
3600



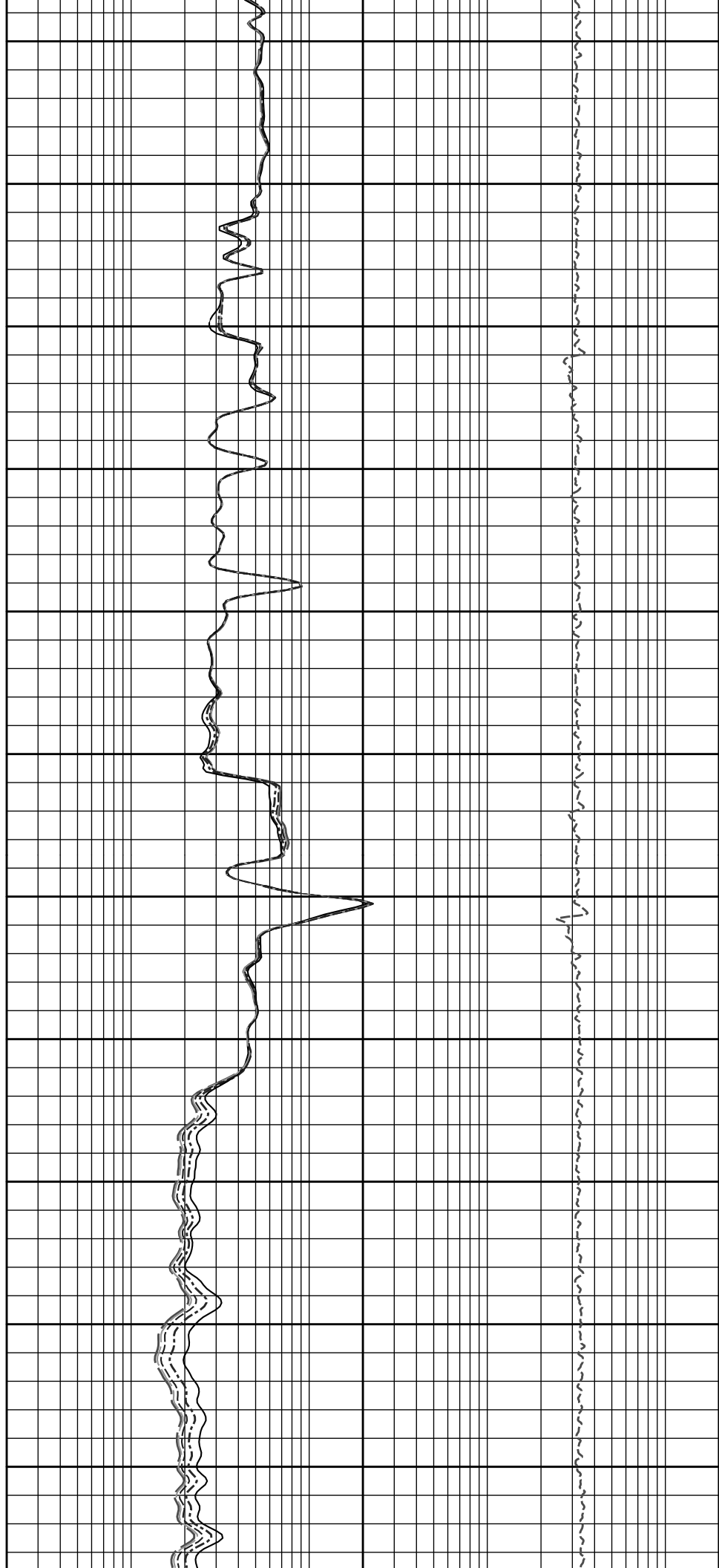


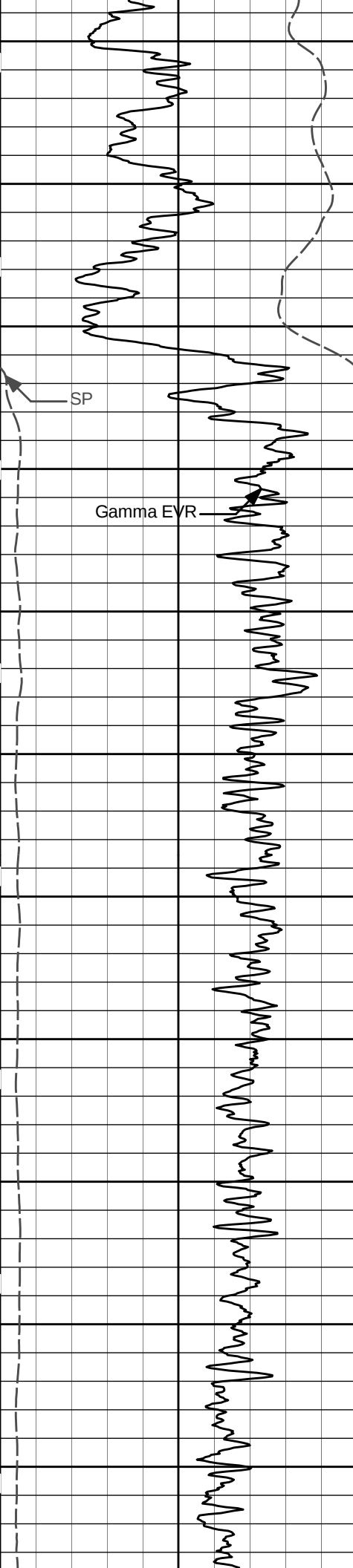
3700



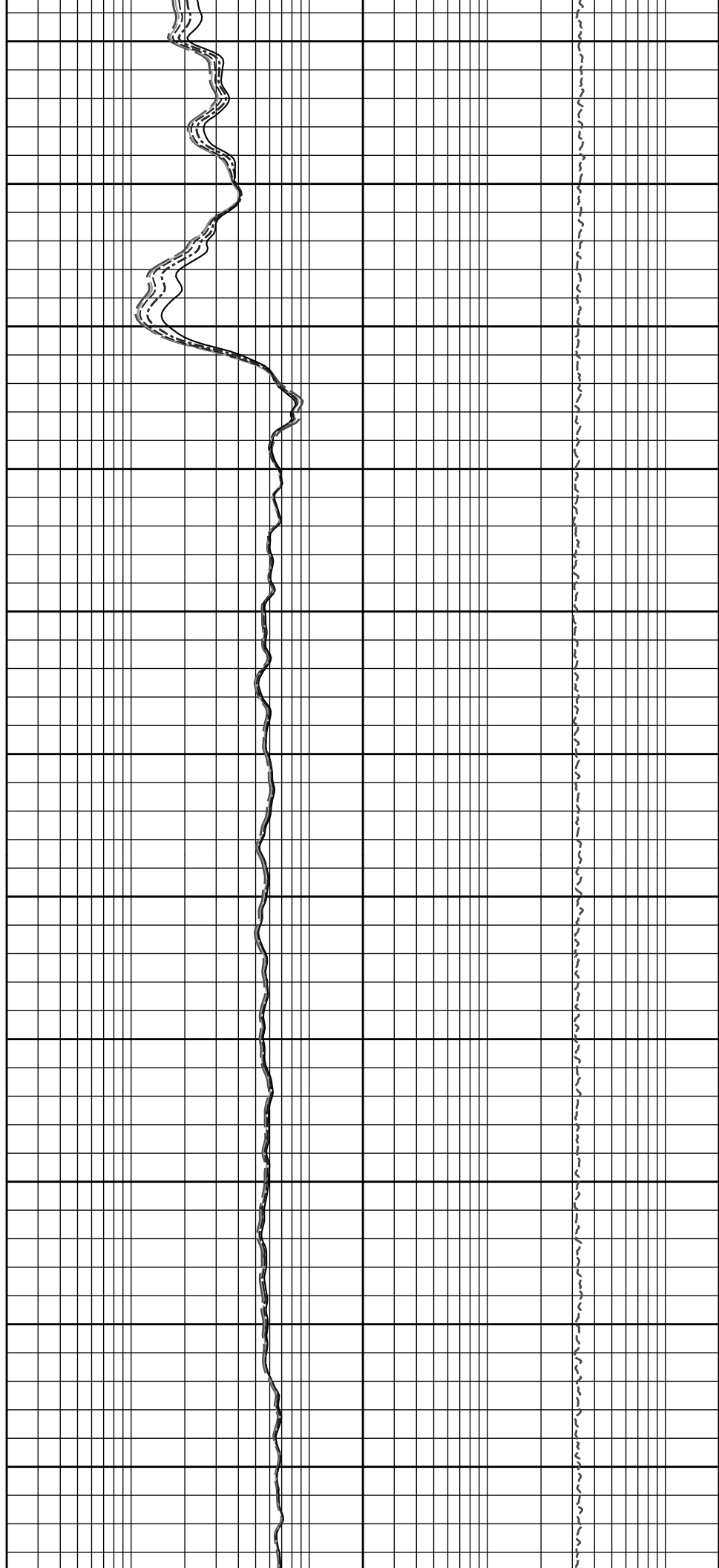


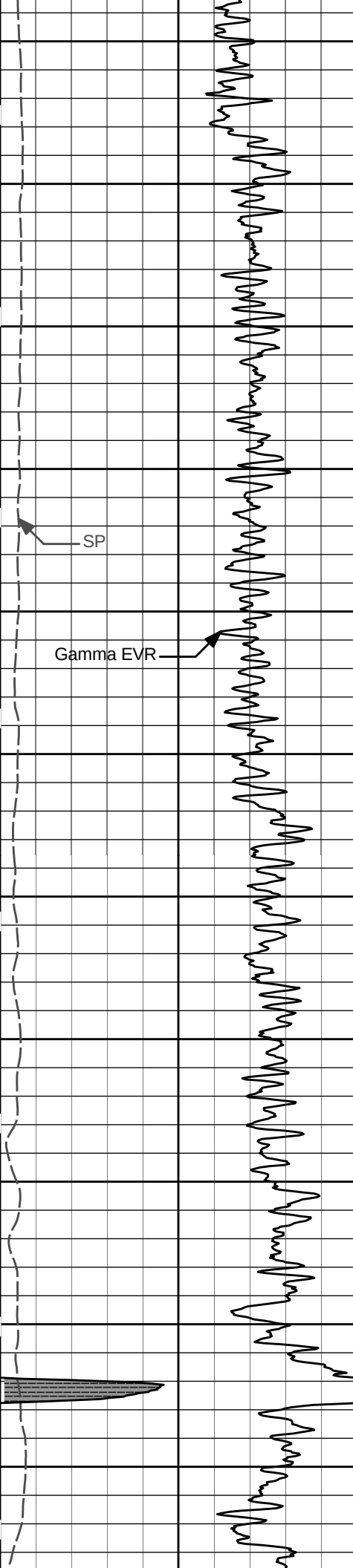
3800





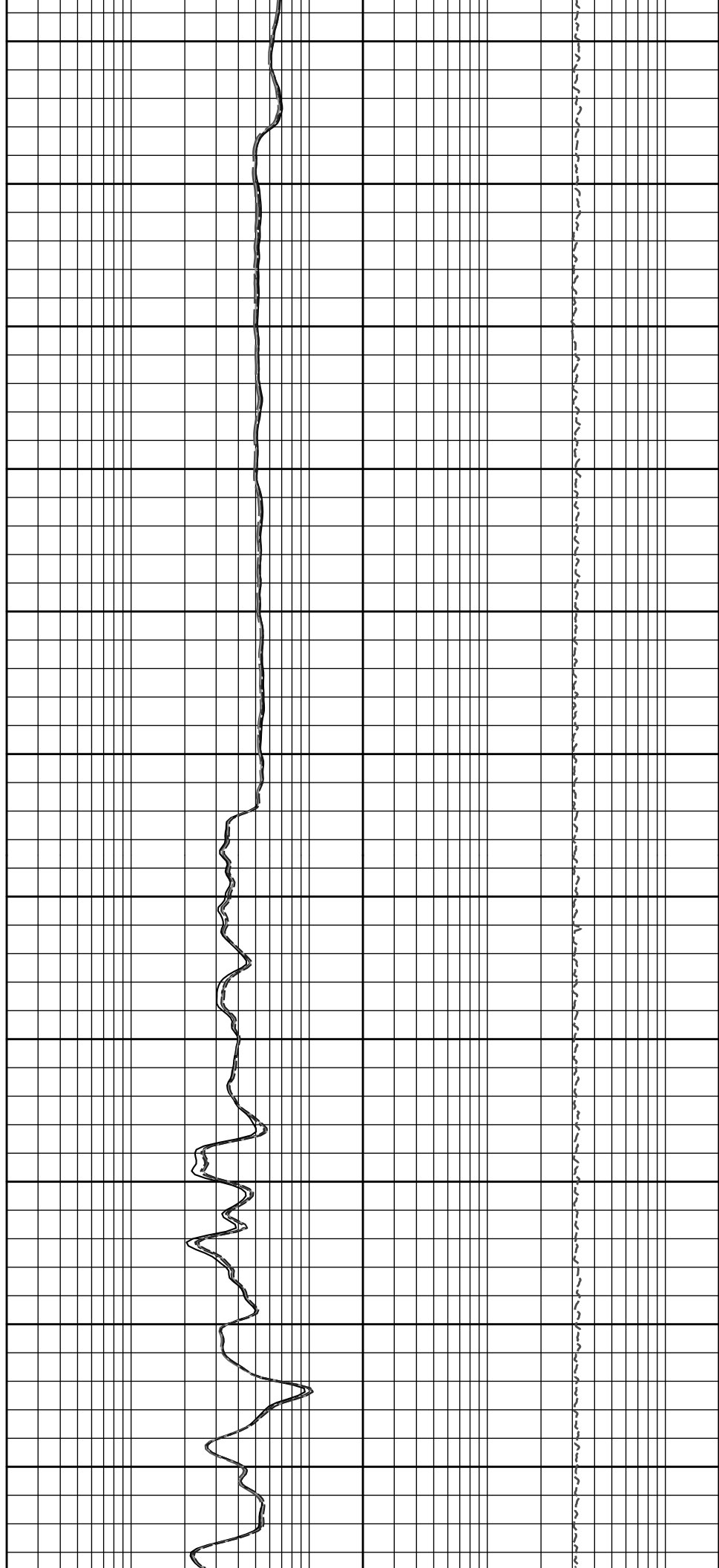
3900

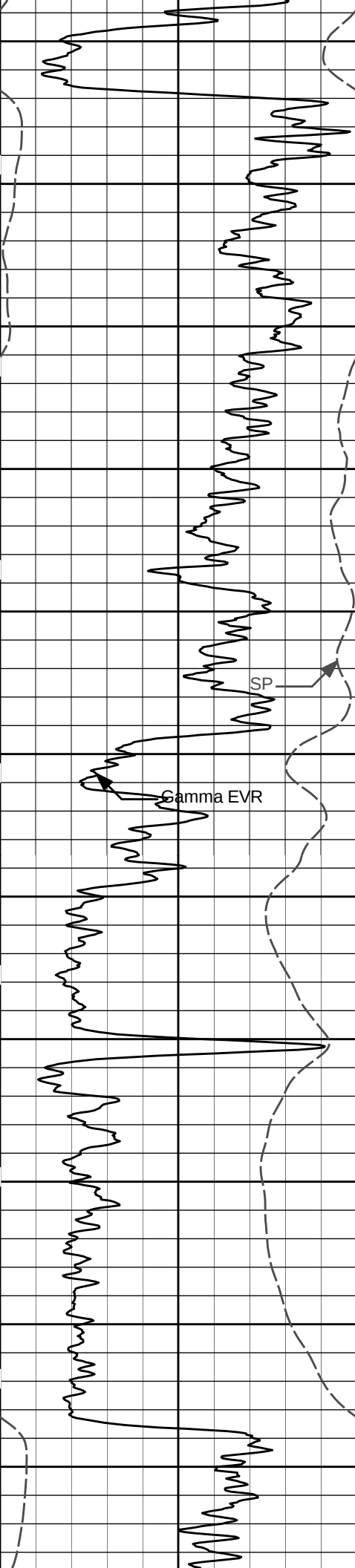




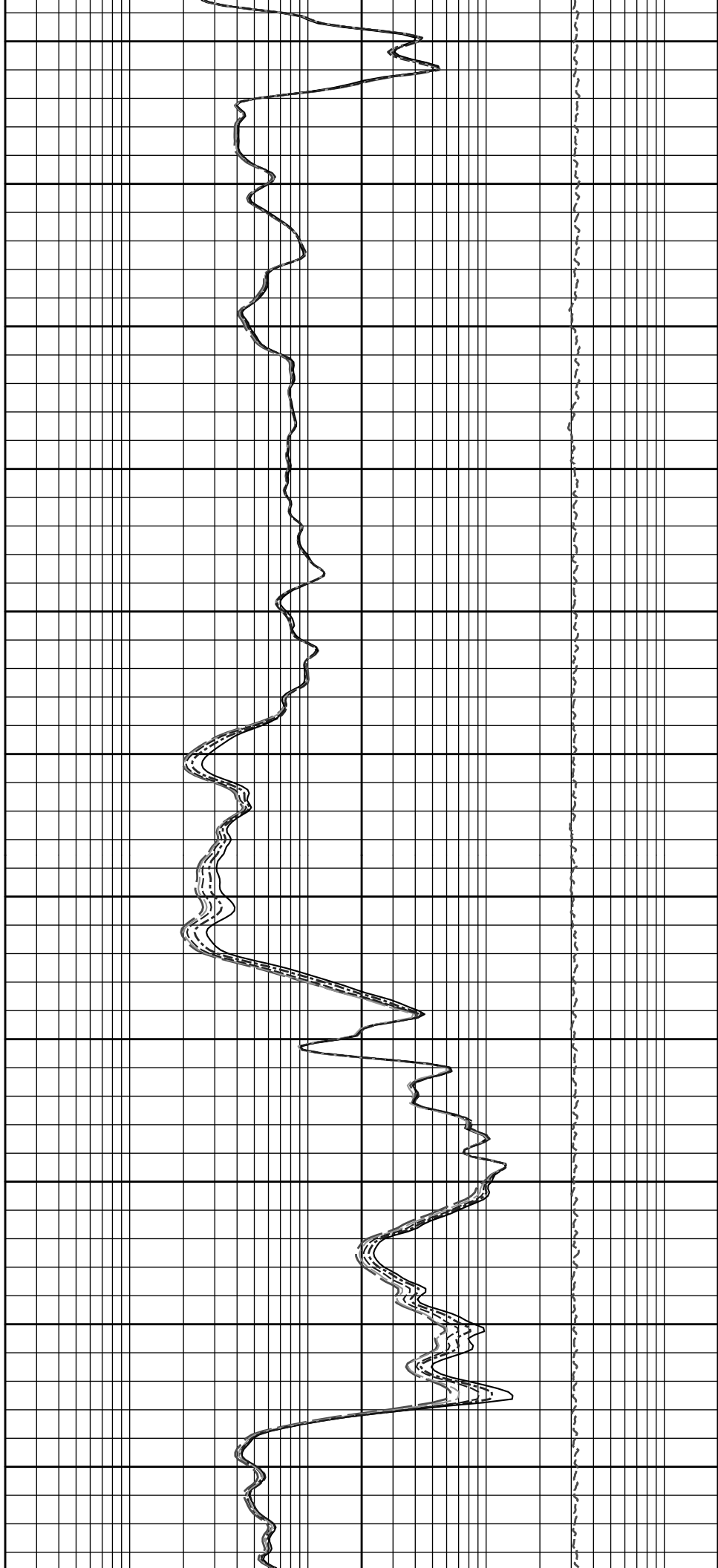
4000

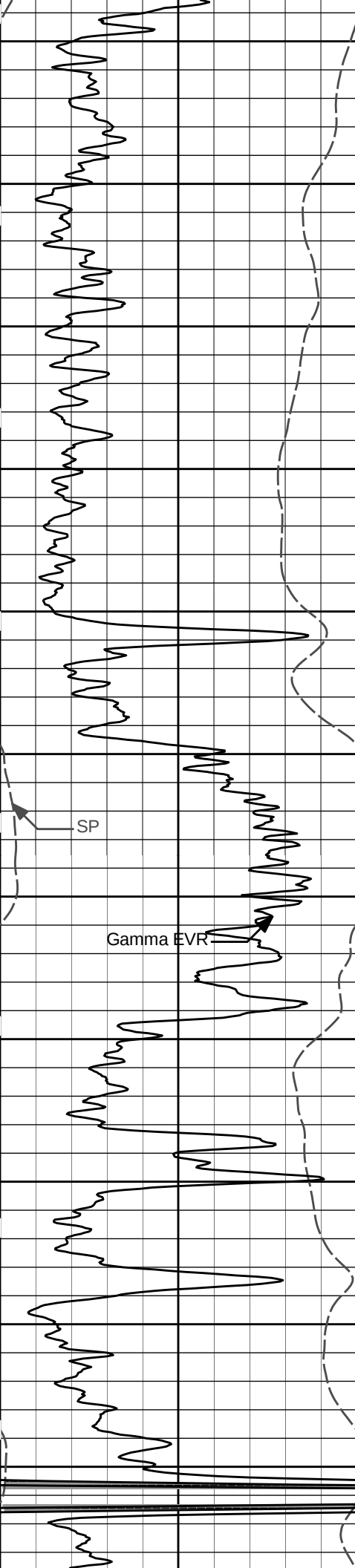
4100



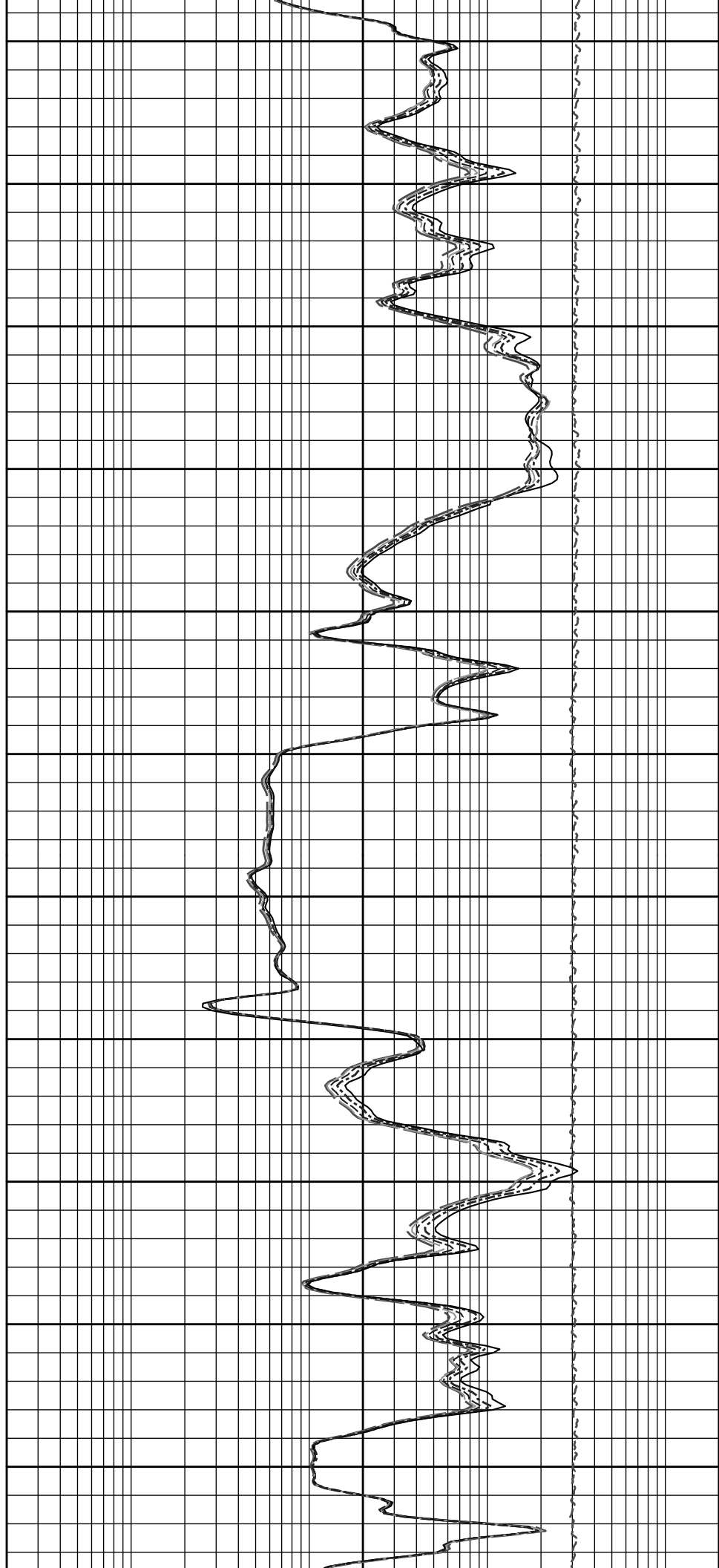


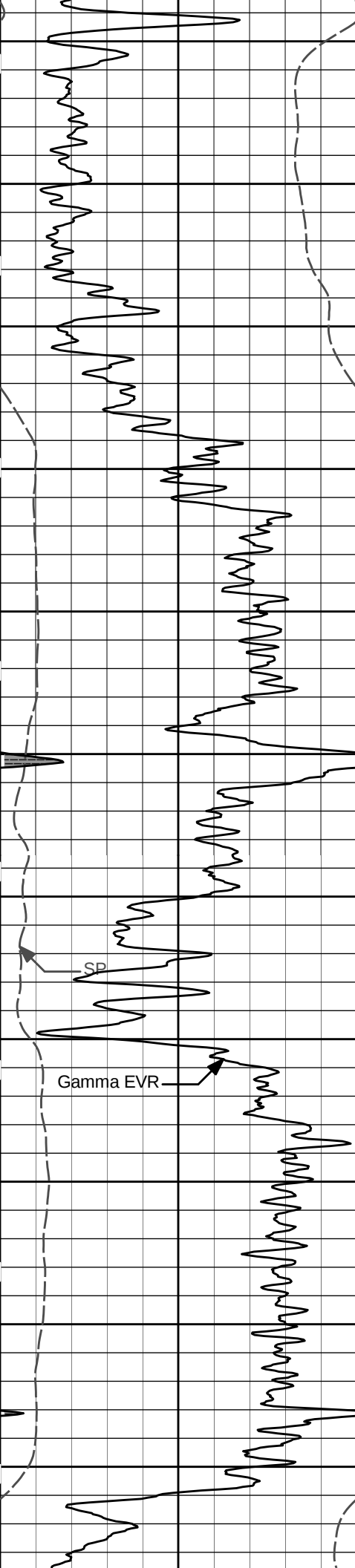
4200



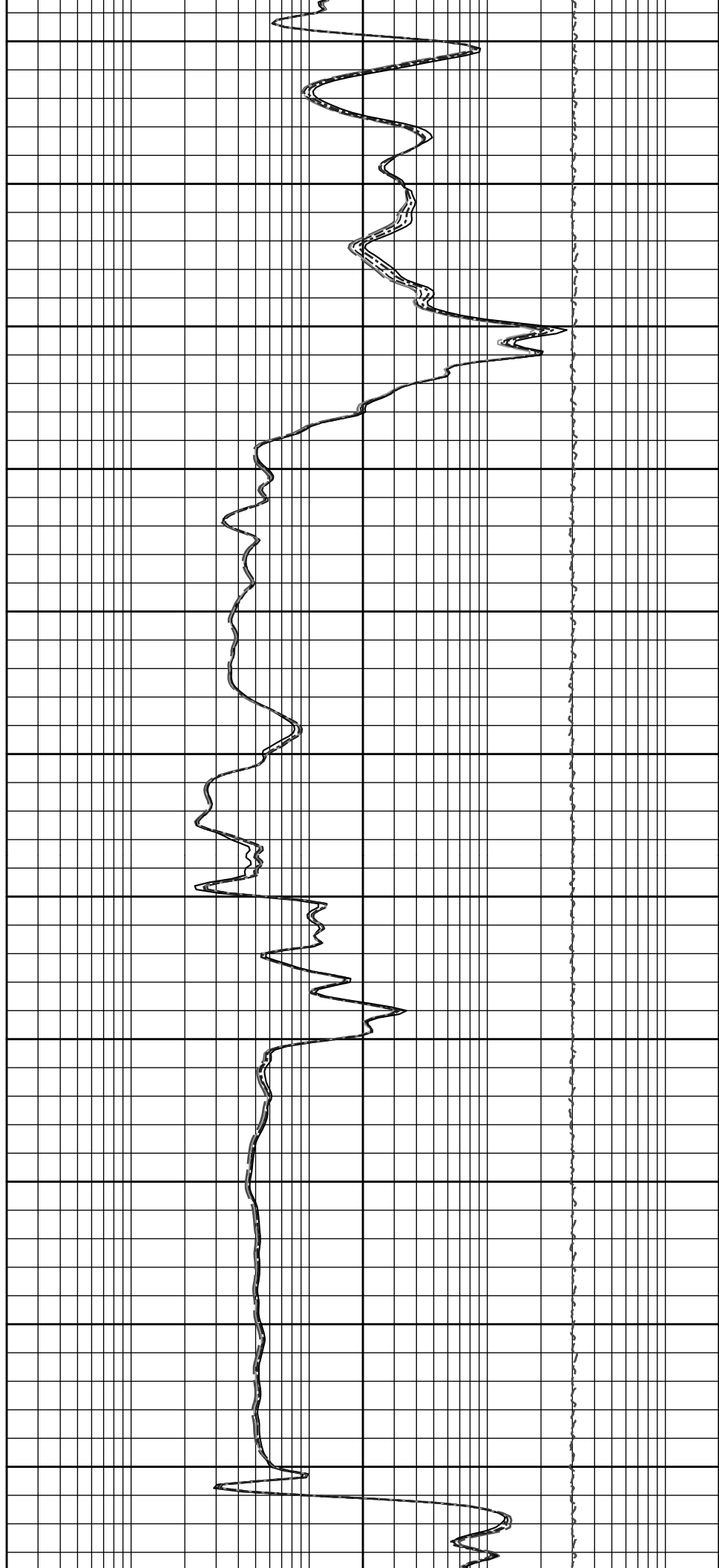


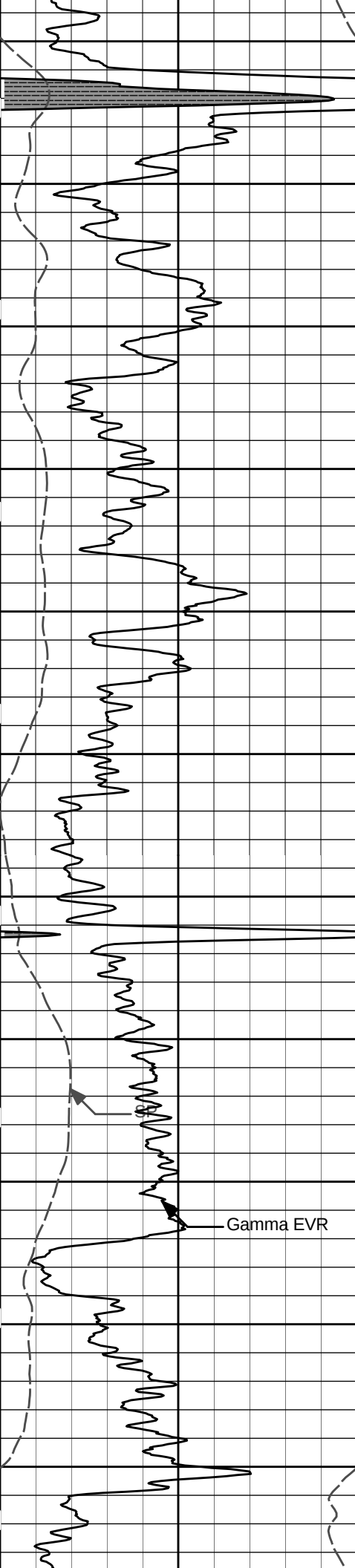
4300



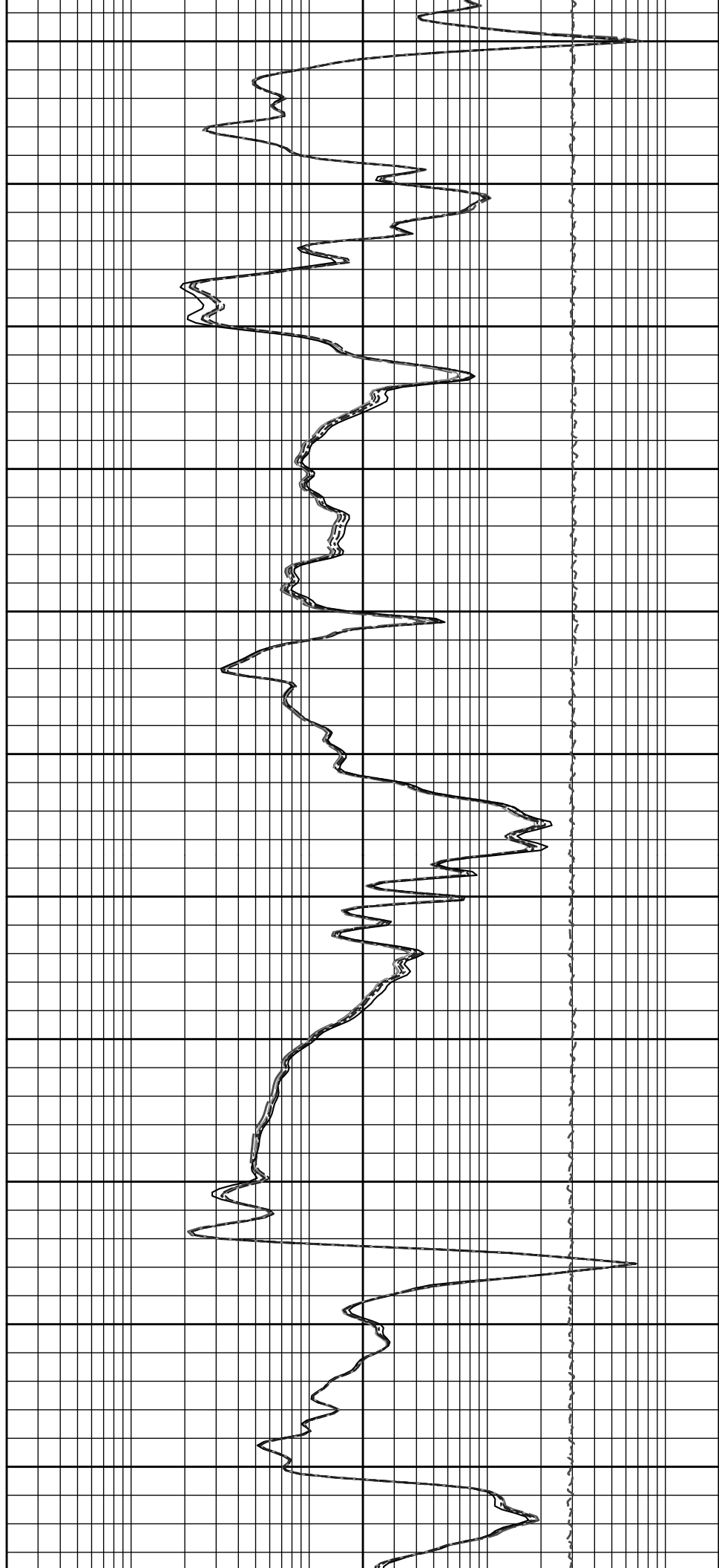


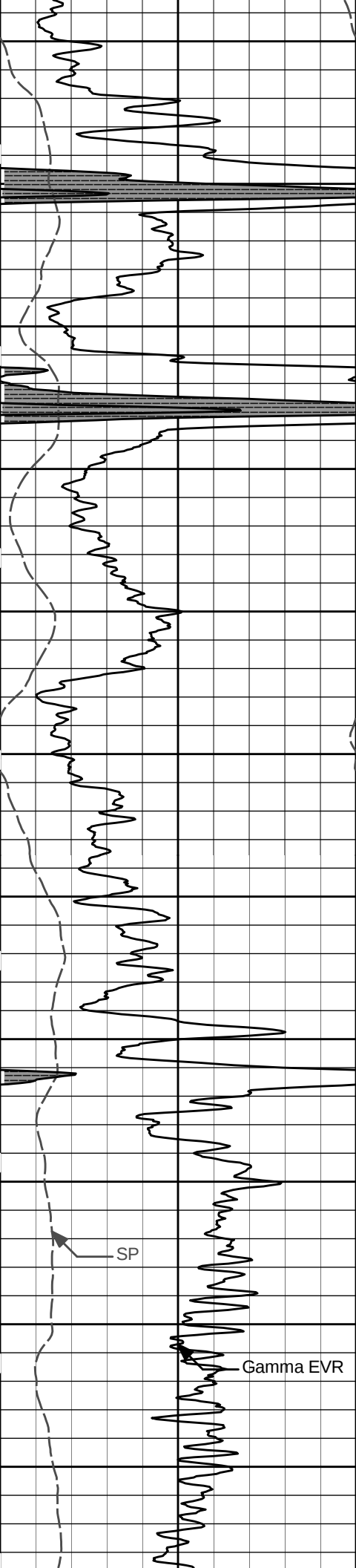
4400



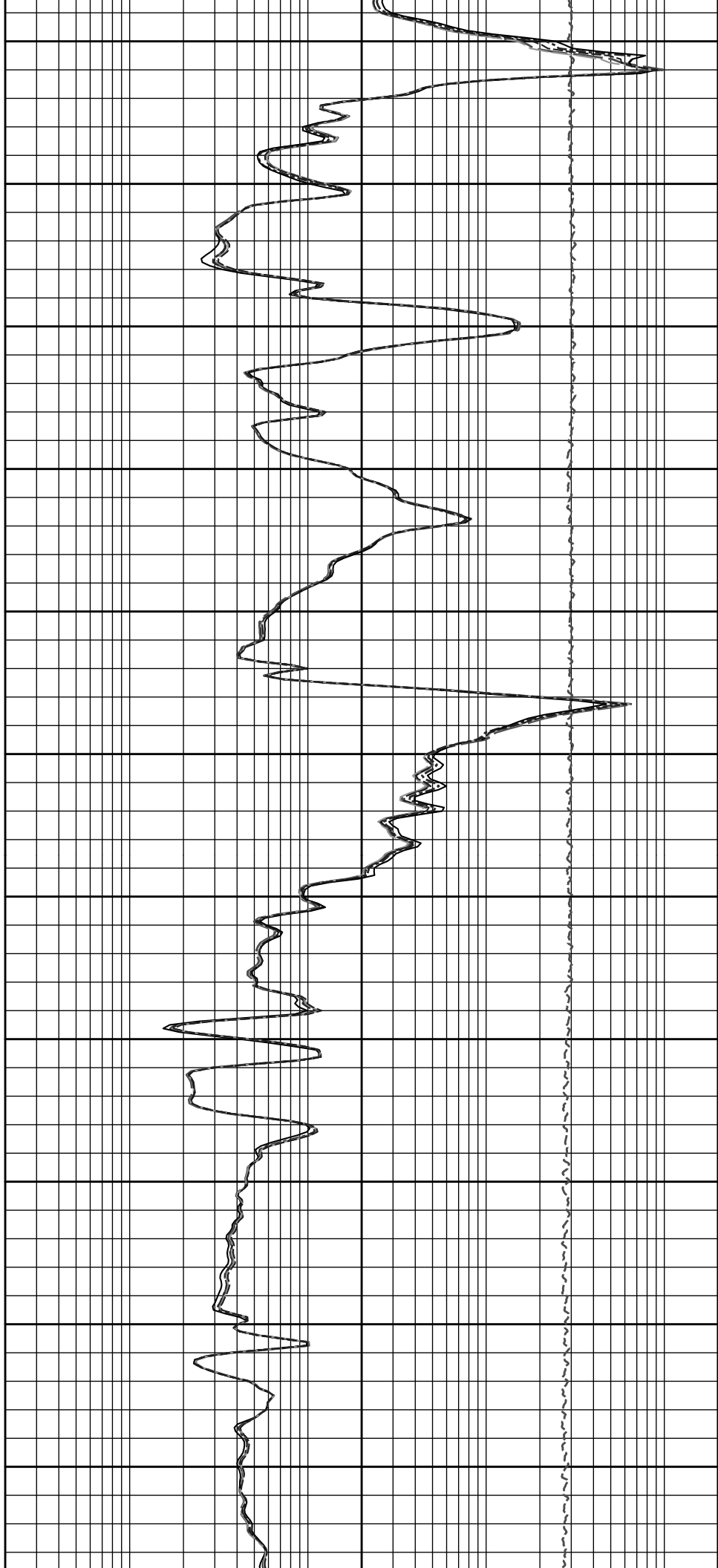


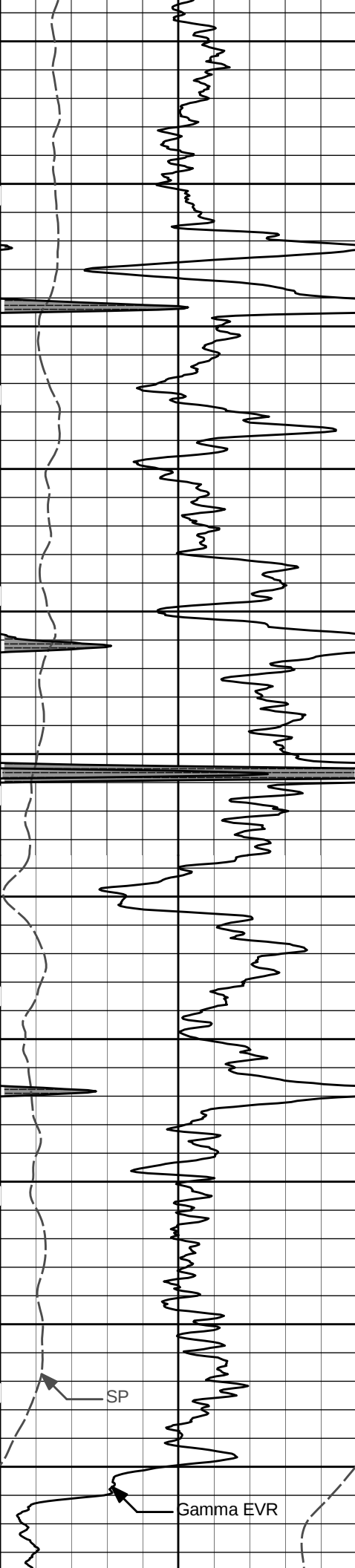
4500



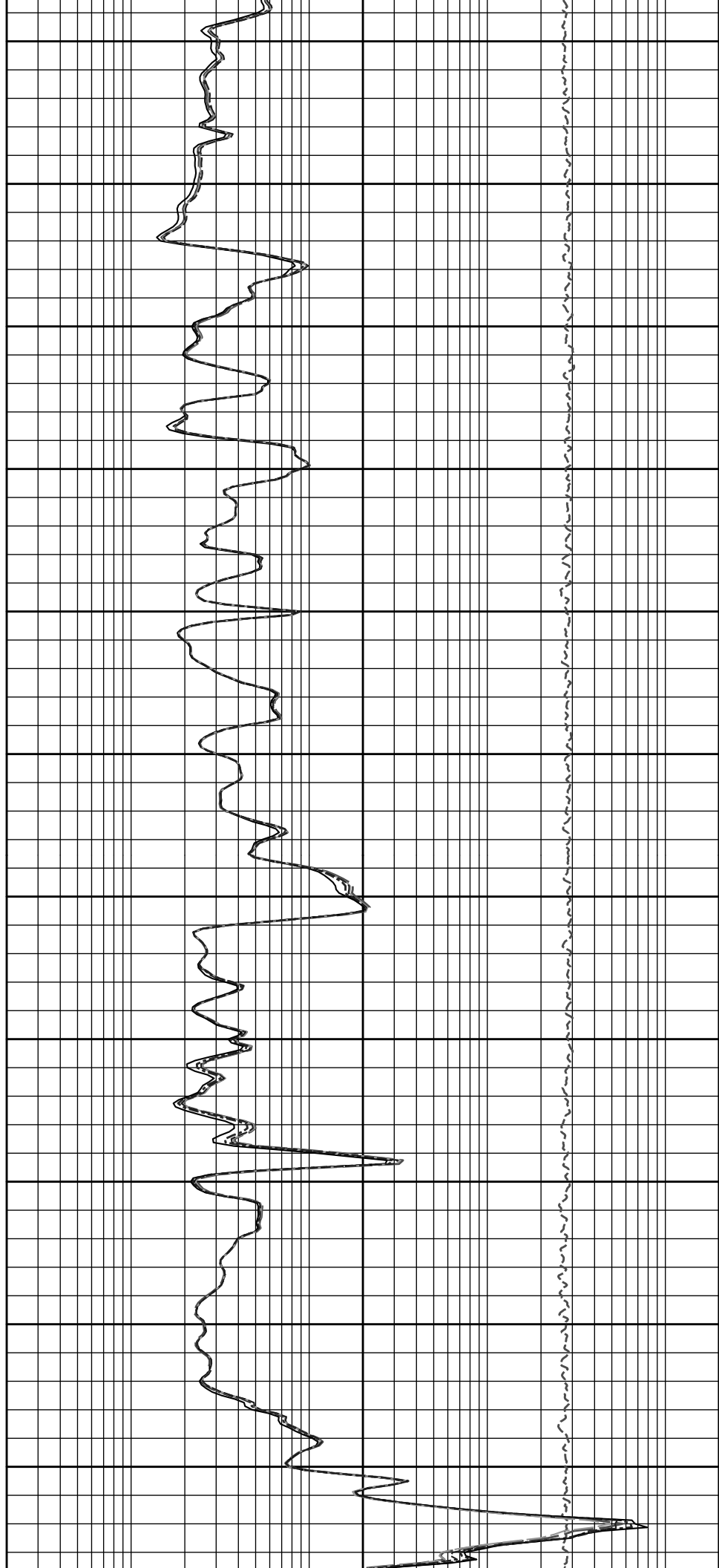


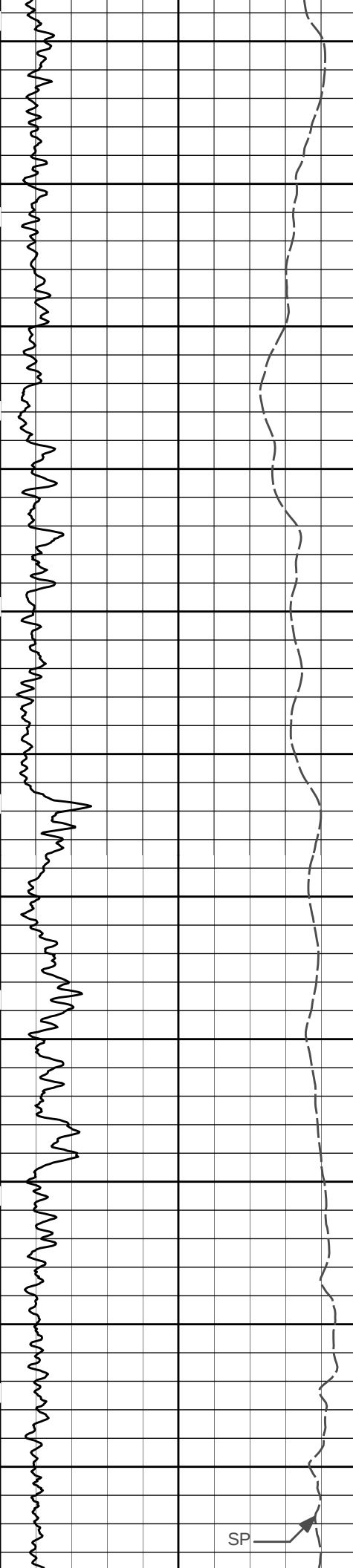
4600



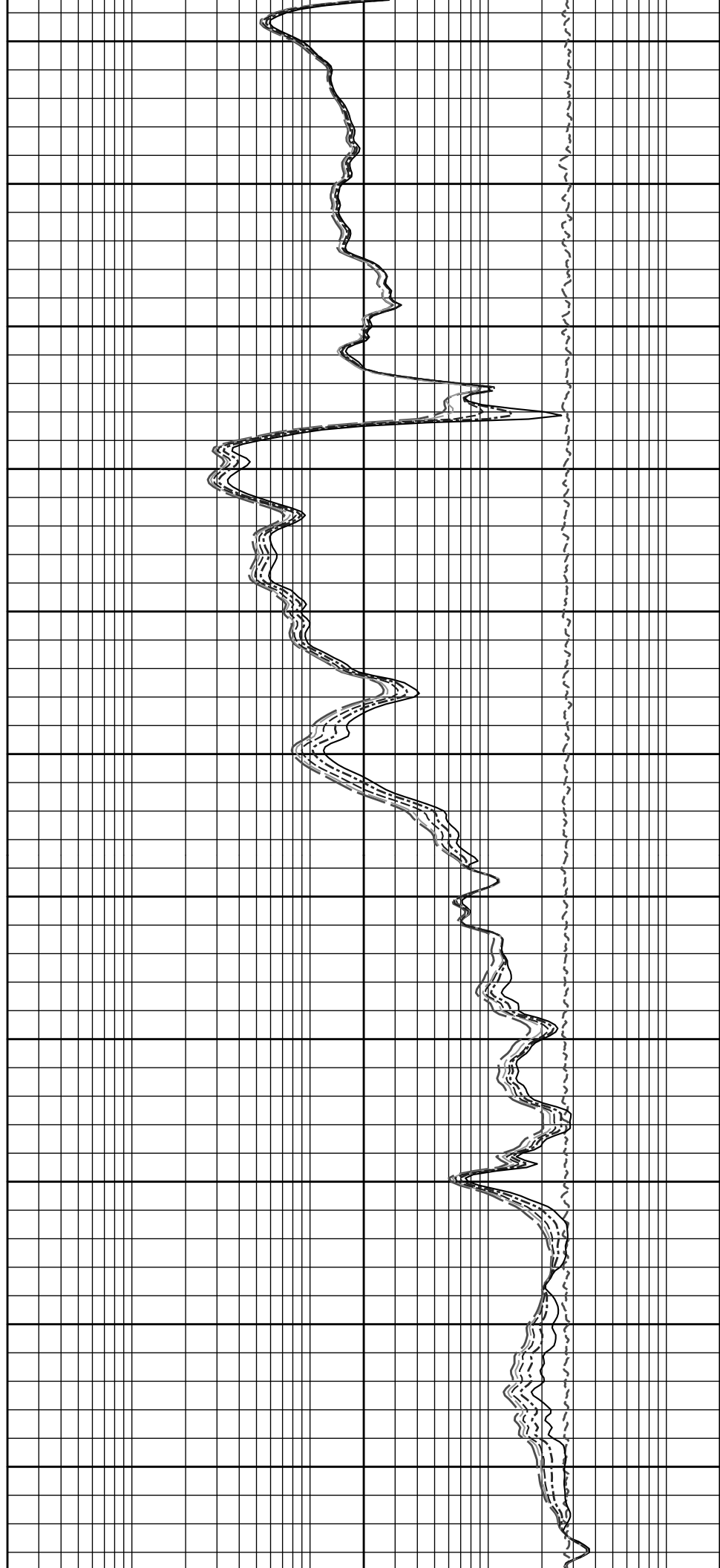


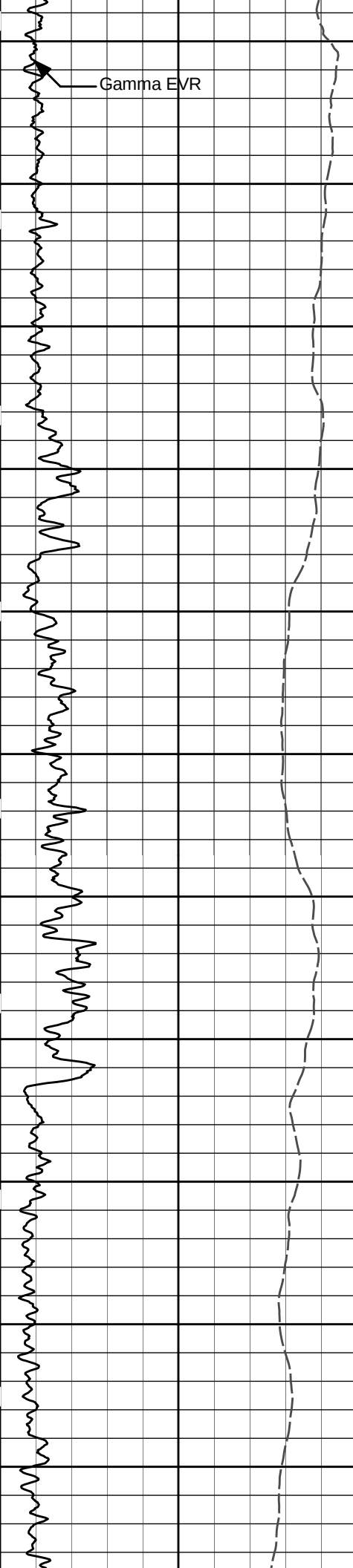
4700



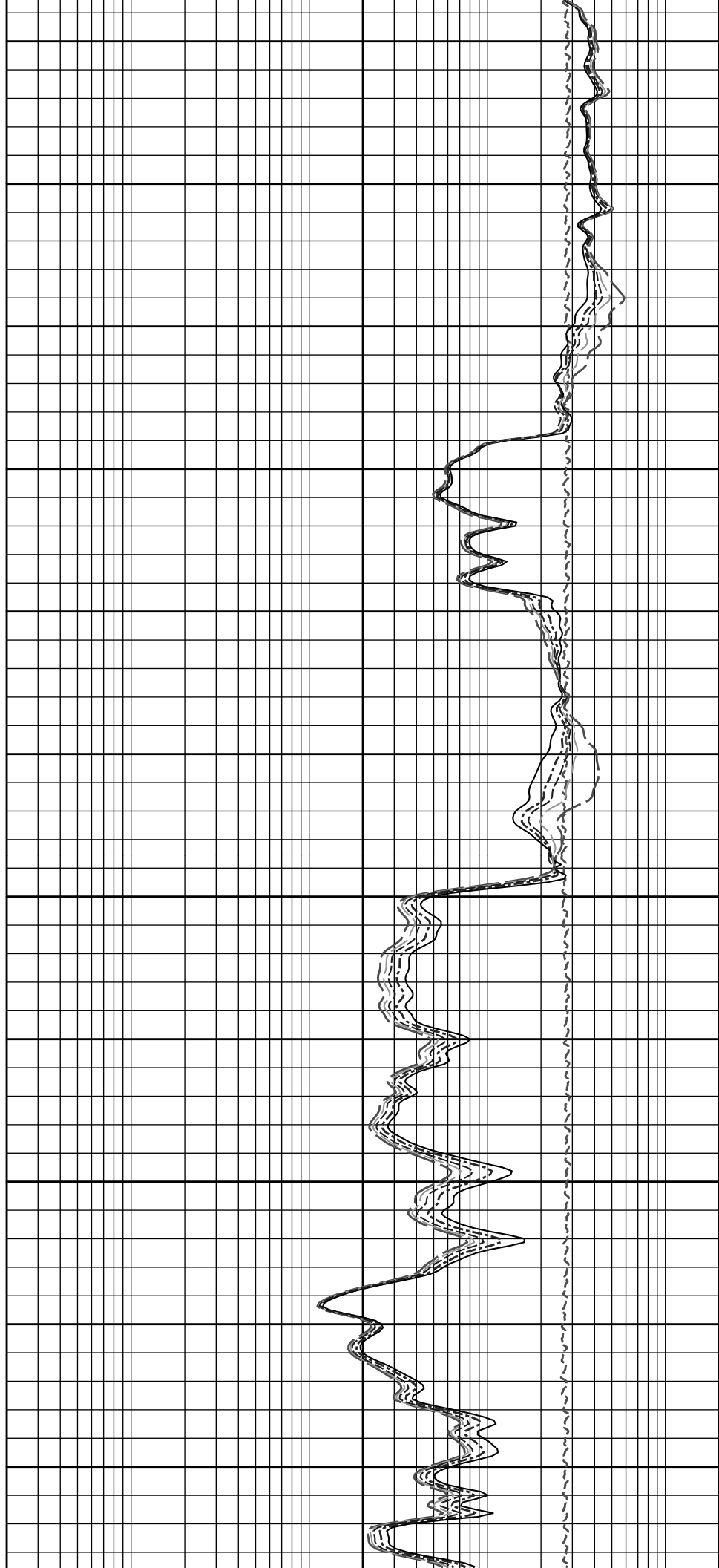


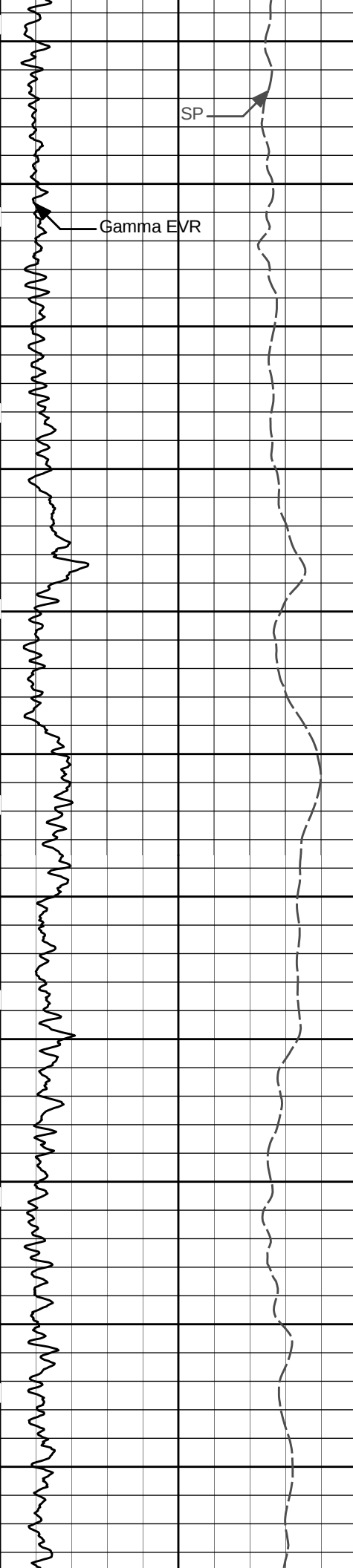
4800



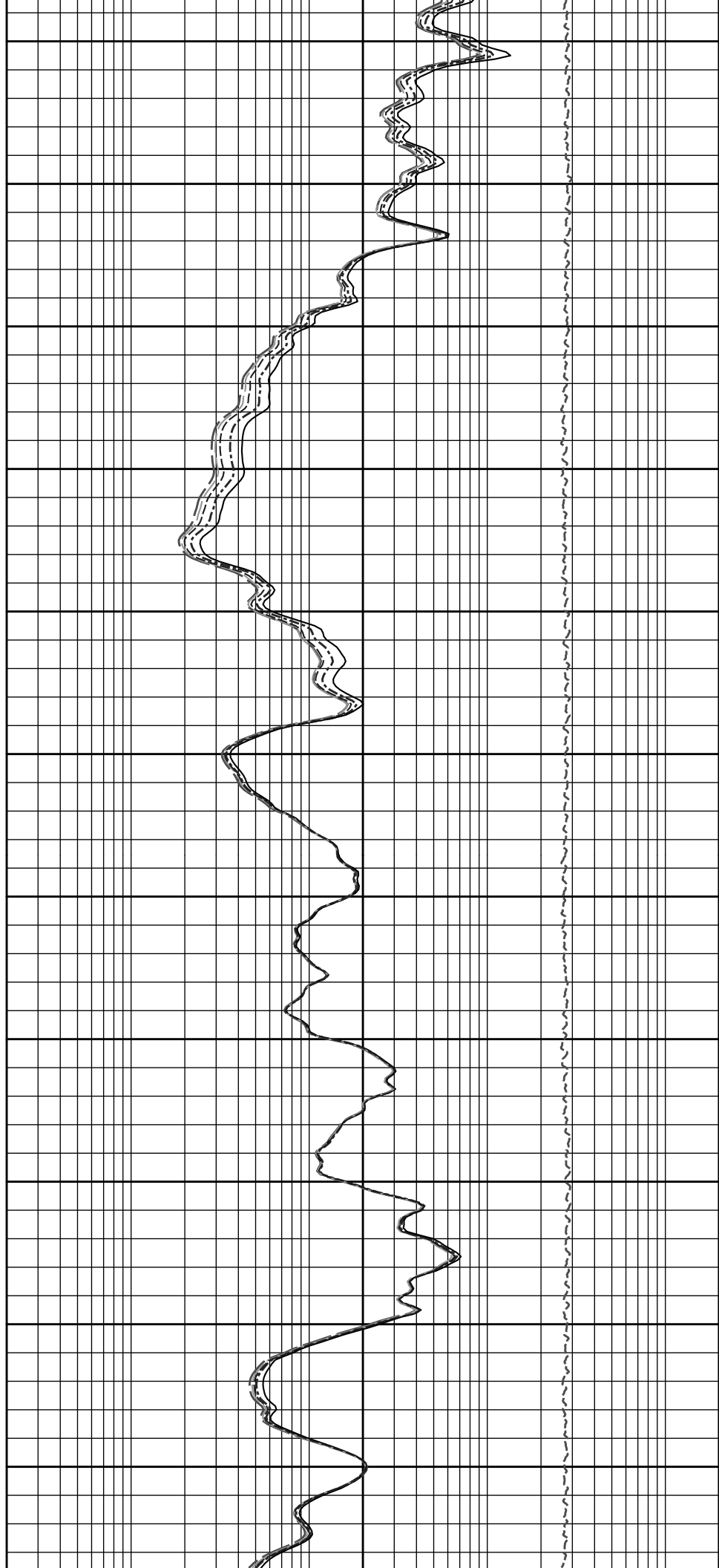


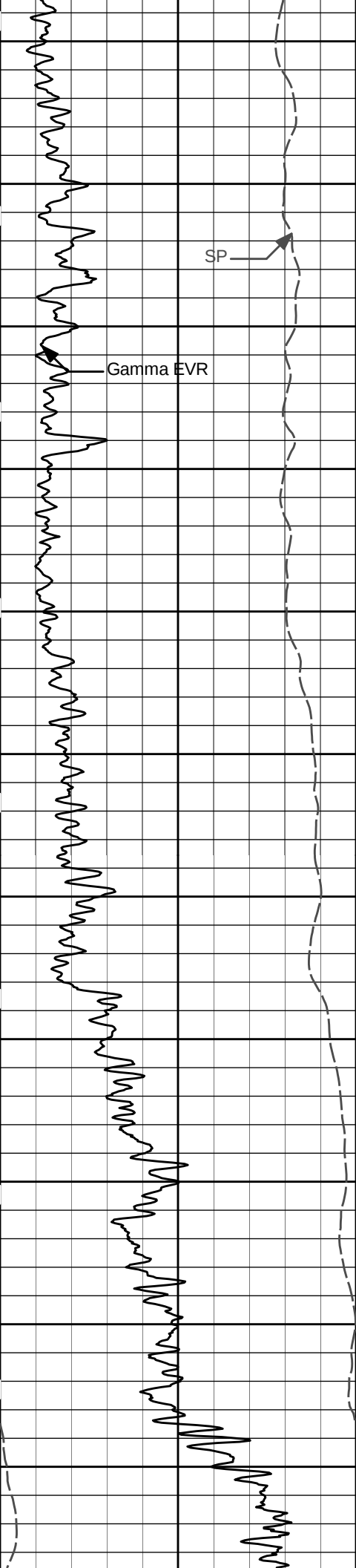
4900





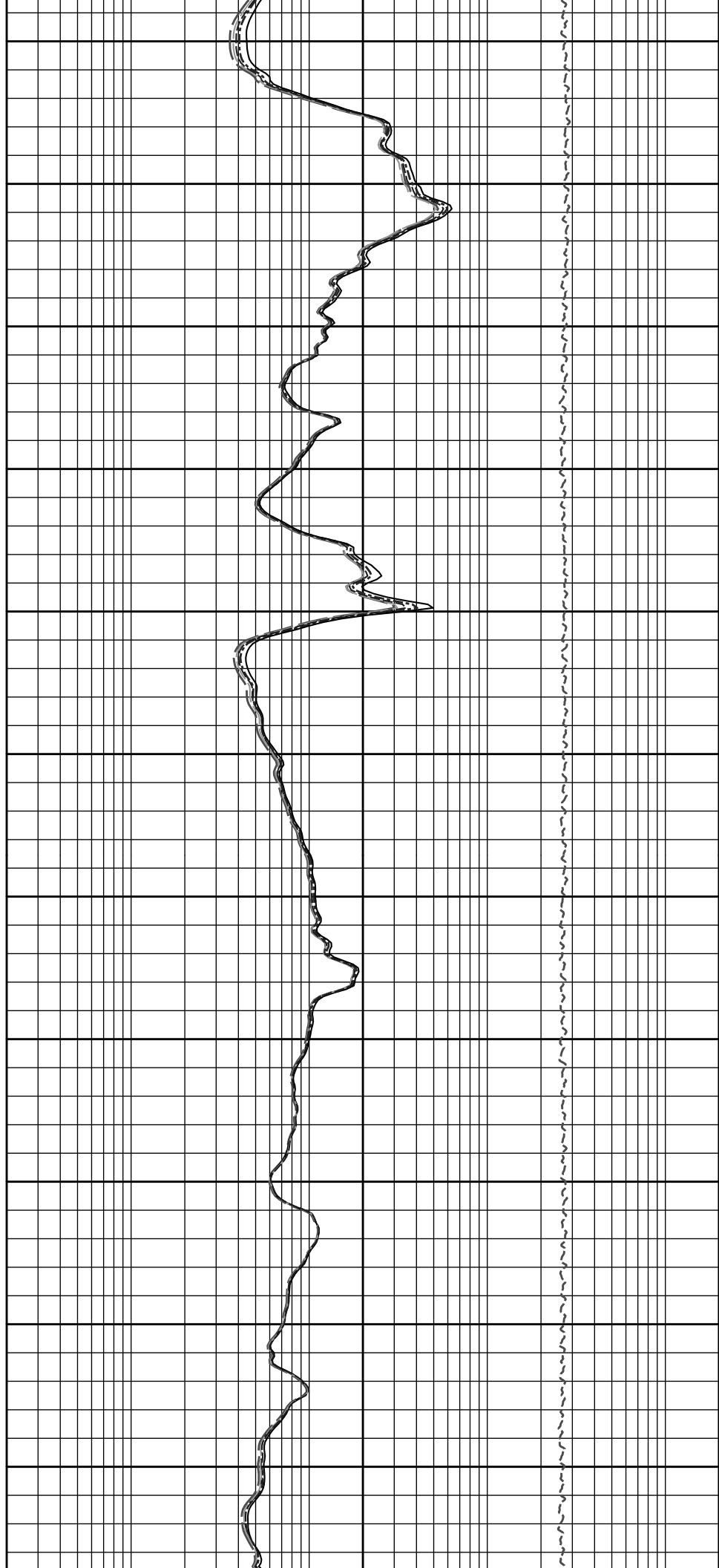
5000

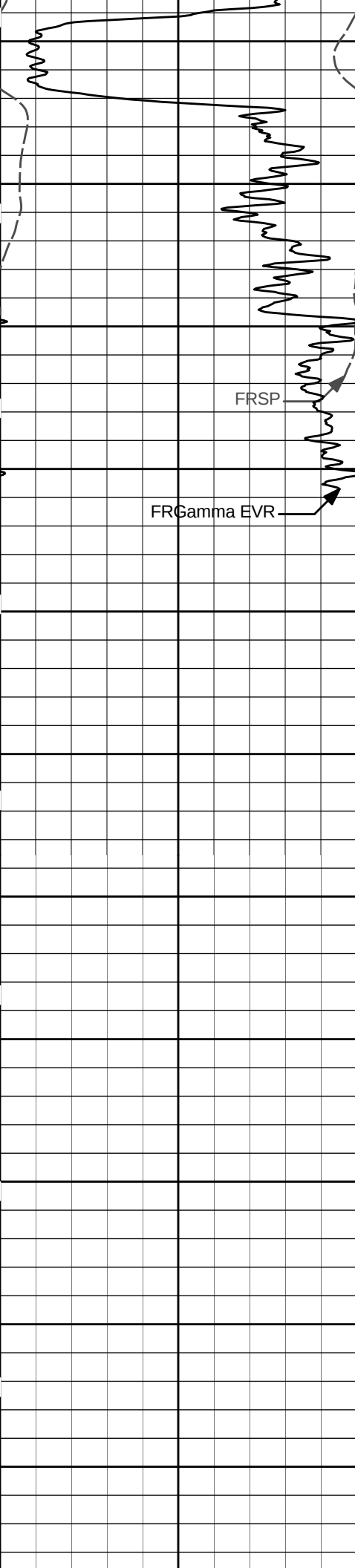




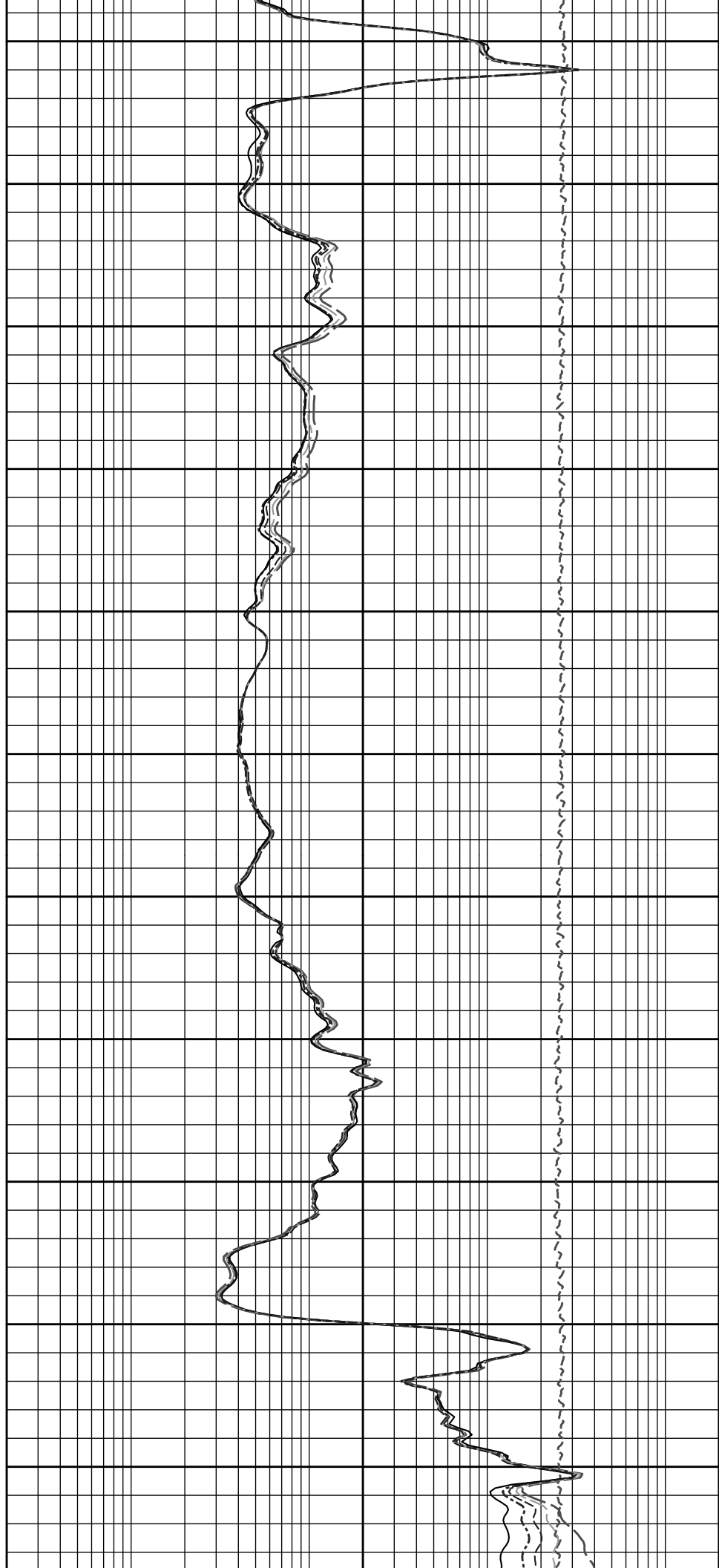
5100

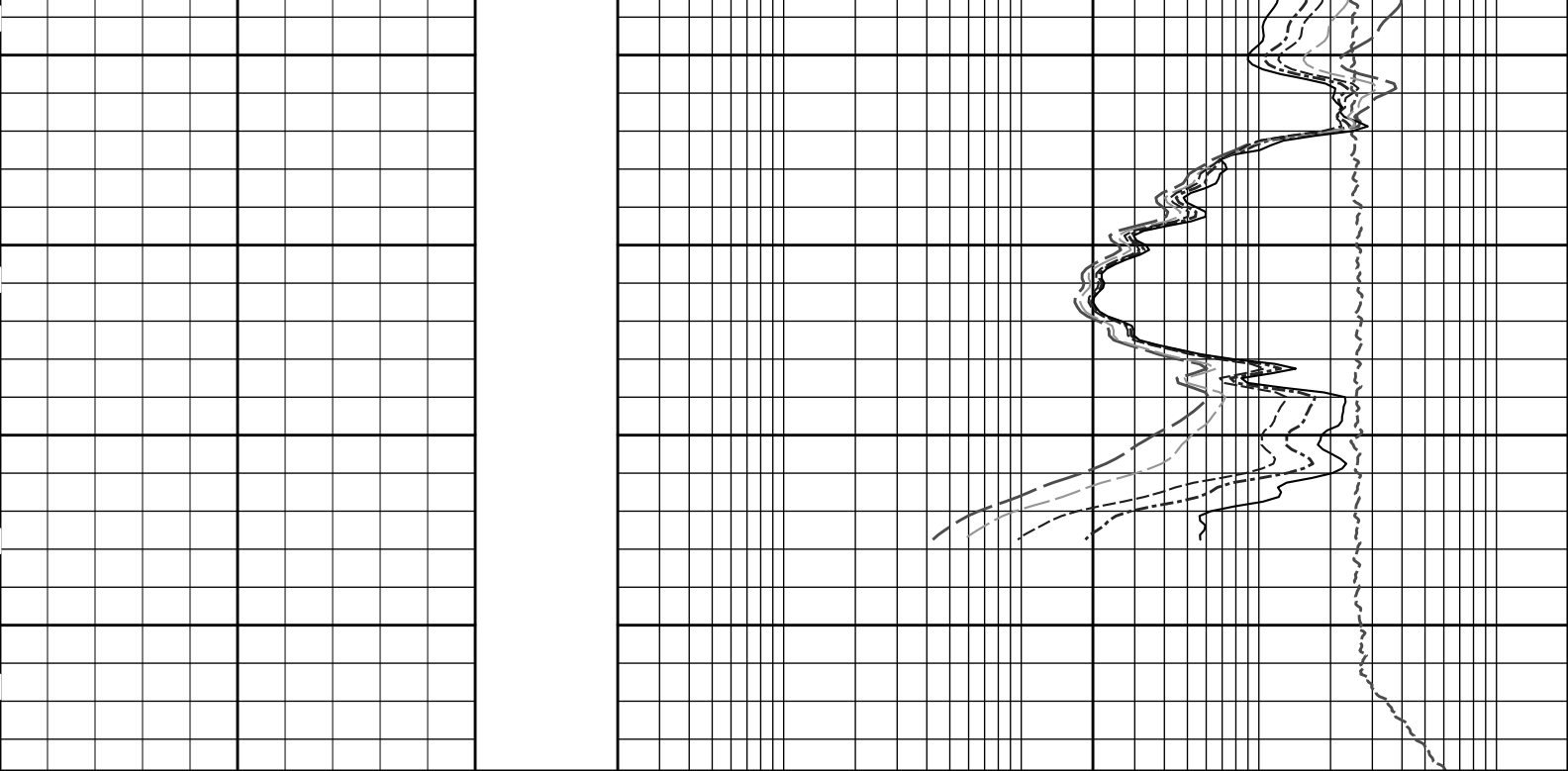
5200





5300



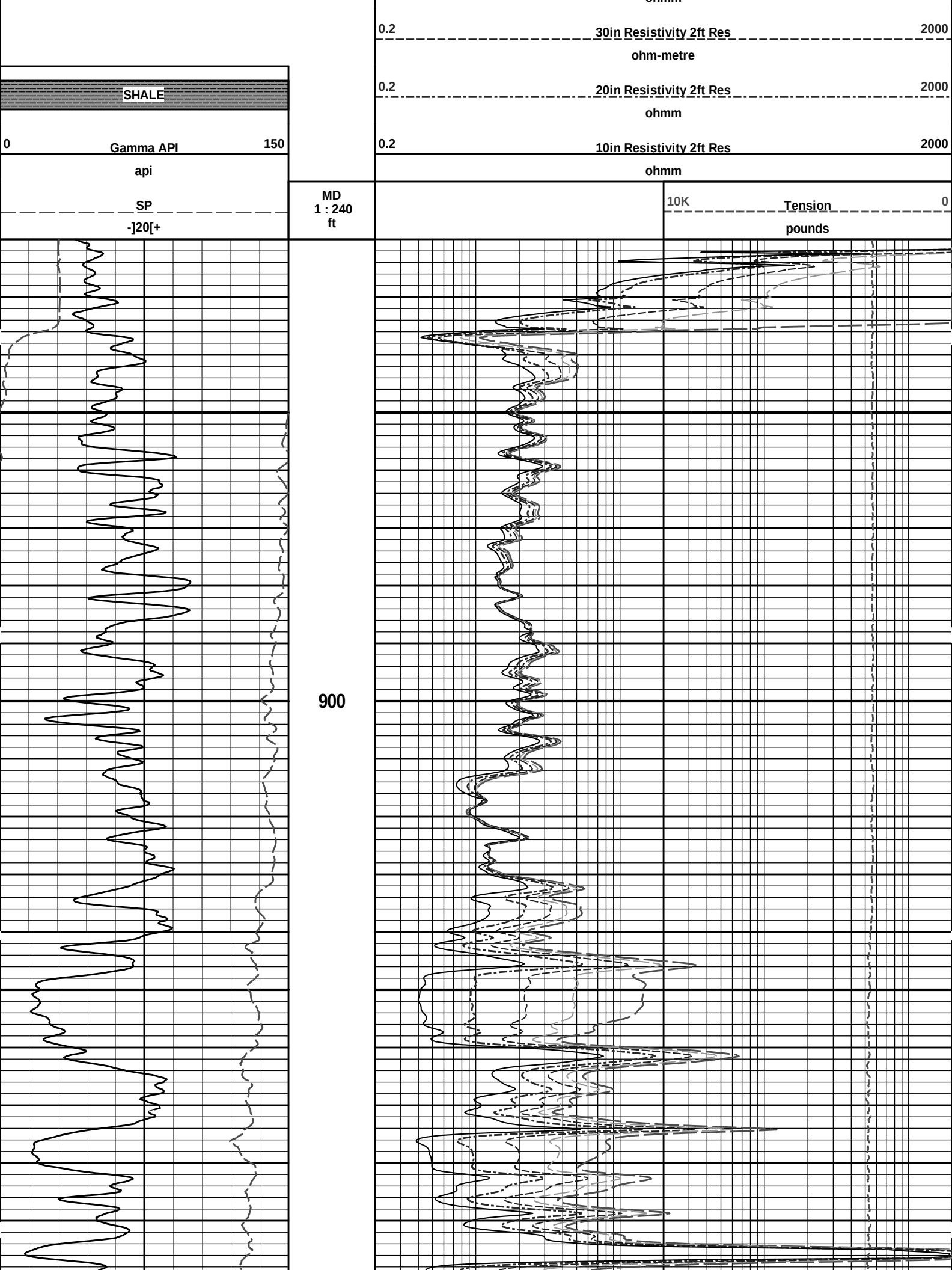


SP -]20[+ 0 Gamma EVR api SHALE 150	1 : 120 ft	10K Tension pounds 0	
		0.2	10in Resistivity 1ft Res 2000 ohmm
		0.2	20in Resistivity 1ft Res 2000 ohmm
		0.2	30in Resistivity 1ft Res 2000 ohm-metre
		0.2	60in Resistivity 1ft Res 2000 ohmm
		0.2	90in Resistivity 1ft Res 2000 ohmm

HALLIBURTON	Plot Time: 19-Jul-13 23:14:07 Plot Range: 3300 ft to 5357.67 ft Data: NANCY_3507_1-10\Well Based\DETAIL\ Plot File: \\LOCAL-INANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CHIACRTIACRT_5_EVR_LIB
	MAIN SECTION 10" PER 100'

HALLIBURTON	Plot Time: 19-Jul-13 23:14:07 Plot Range: 820 ft to 5357.67 ft Data: NANCY_3507_1-10\Well Based\CASING\ Plot File: \\LOCAL-INANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CHIACRTIACRT_5_main_lib
	5 INCH MAIN LOG

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

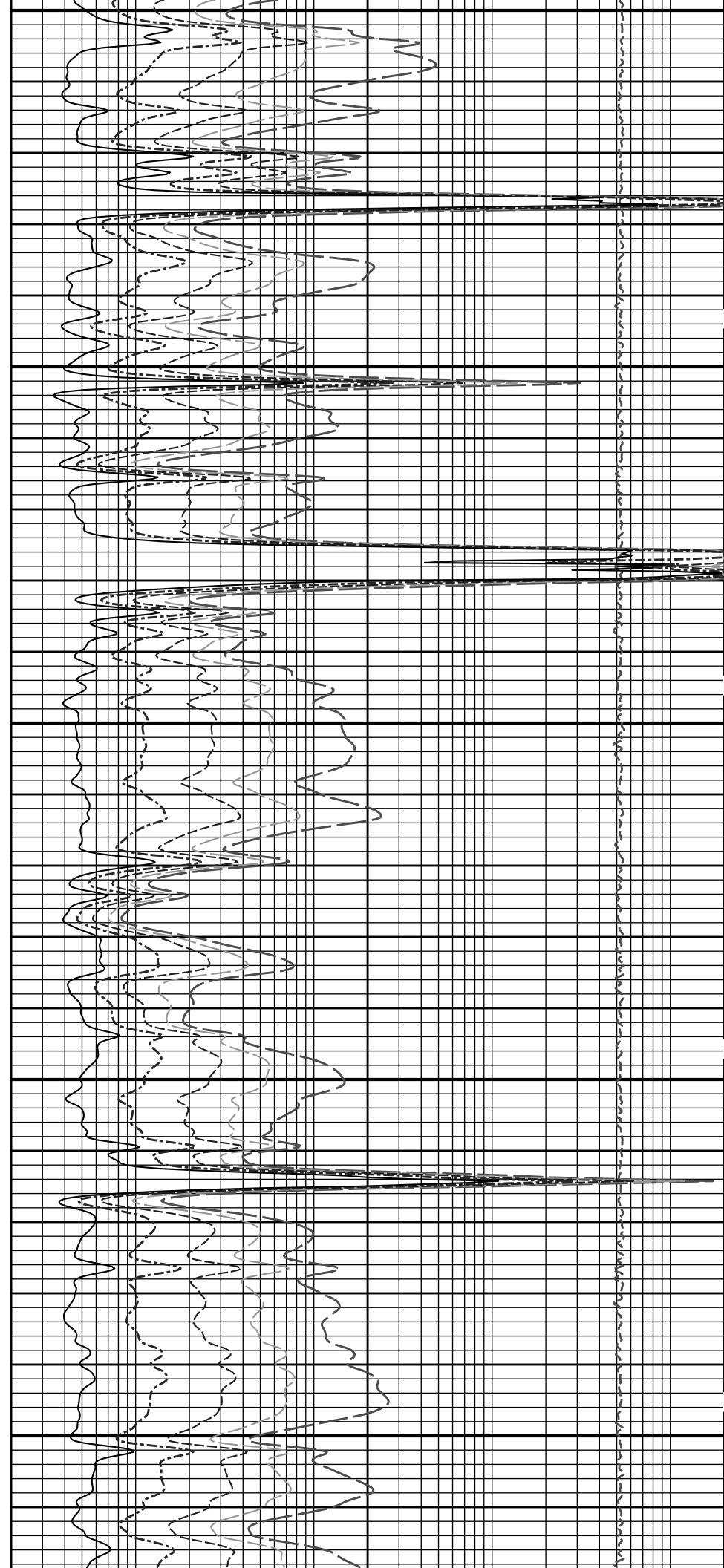


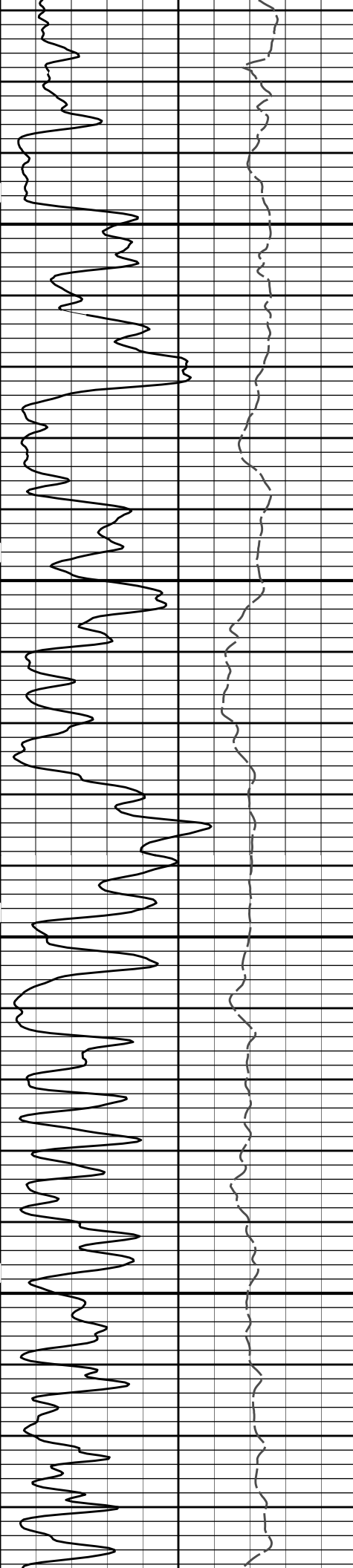


1000

1100

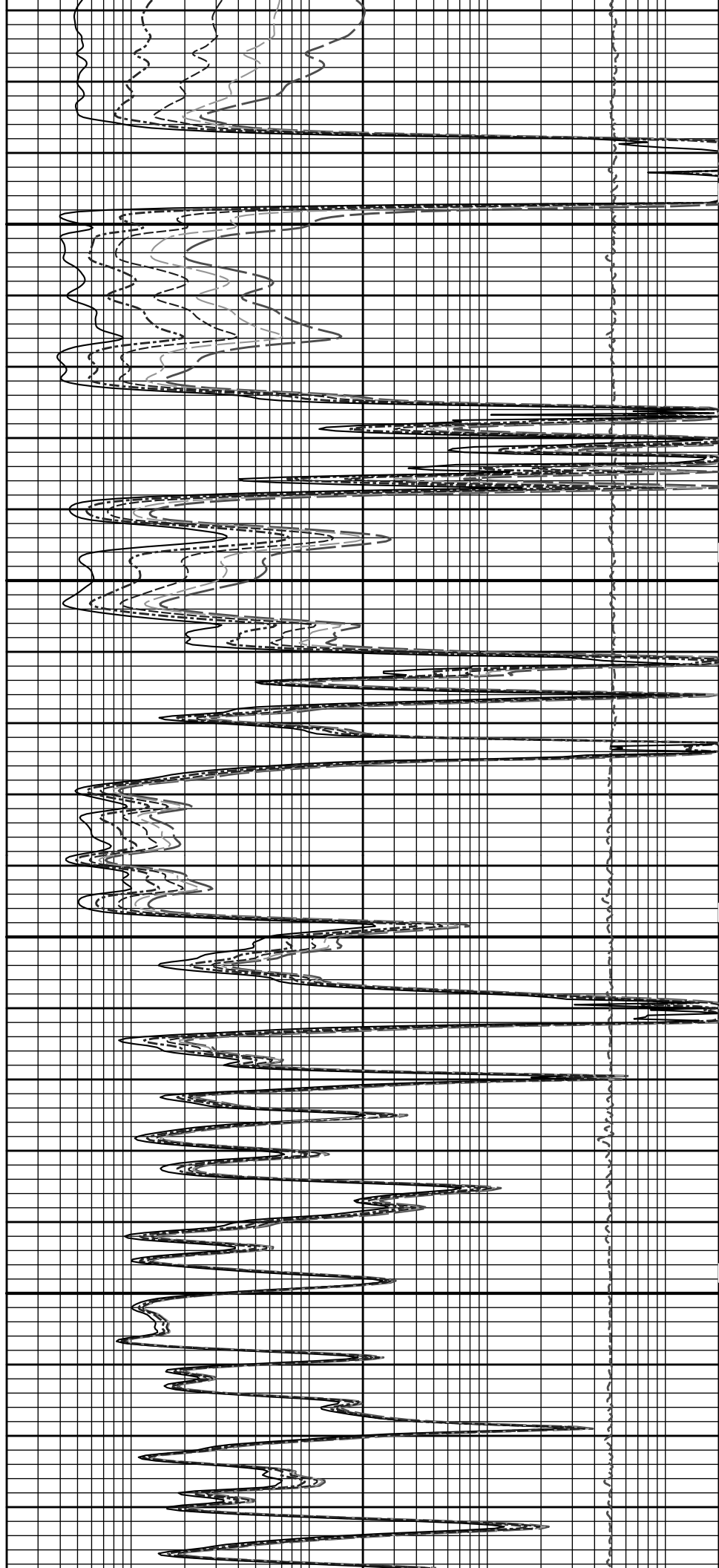
1200

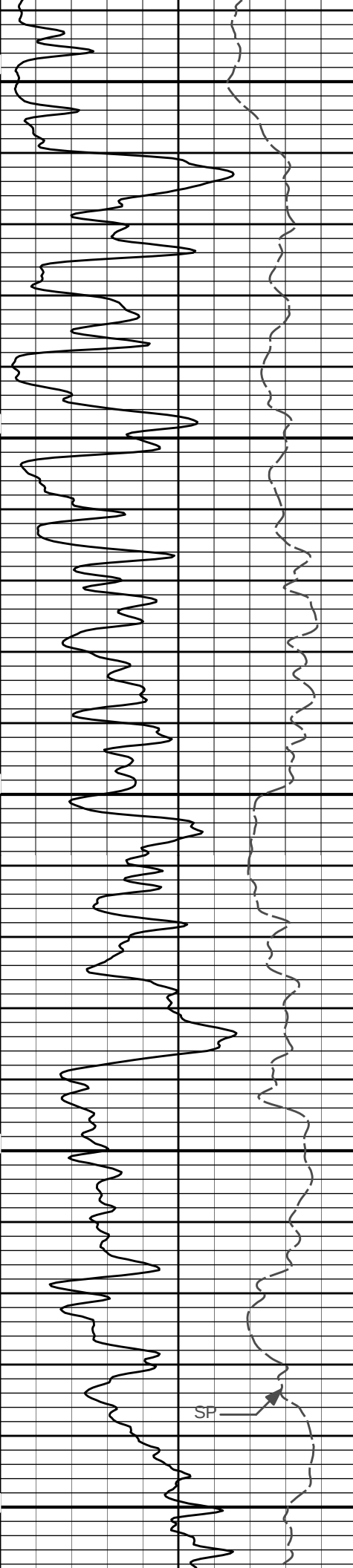




1300

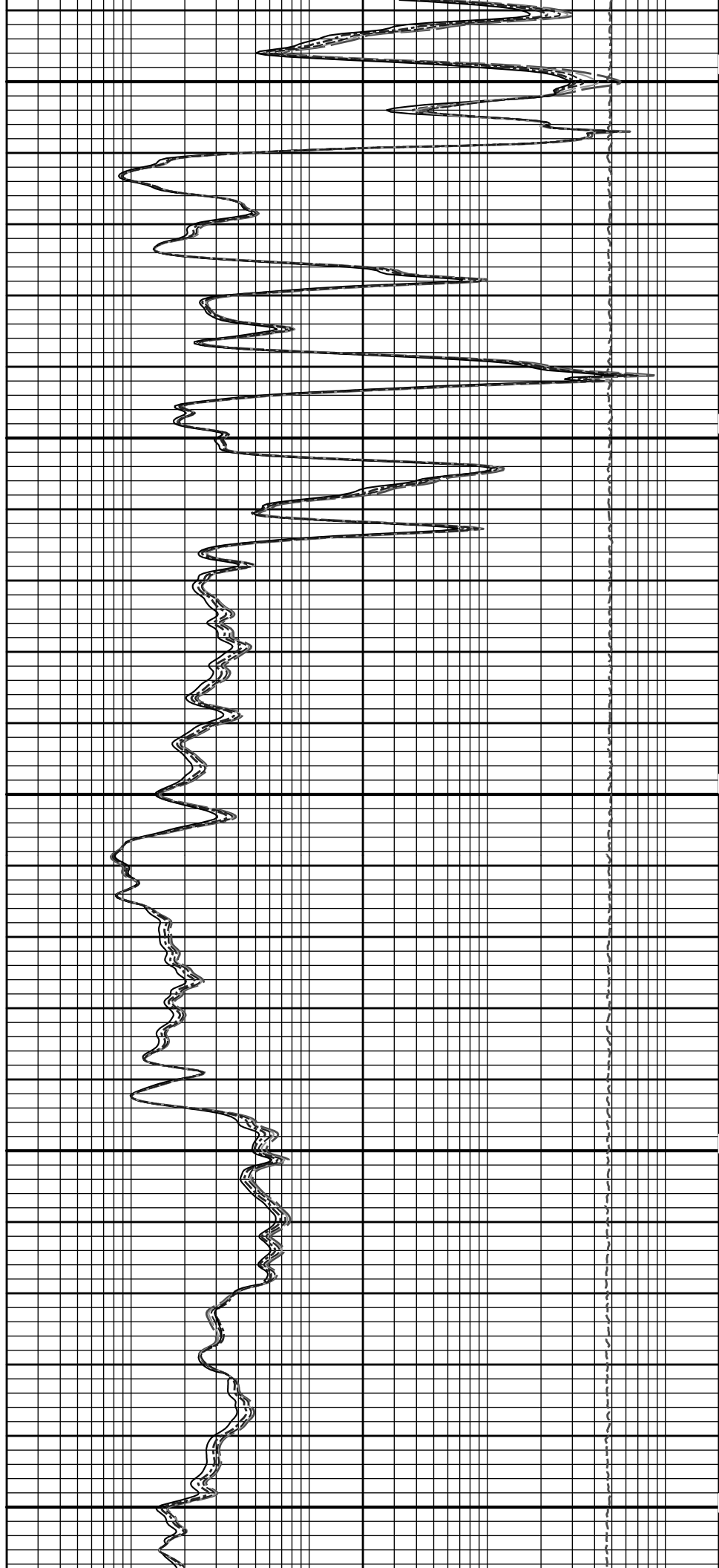
1400

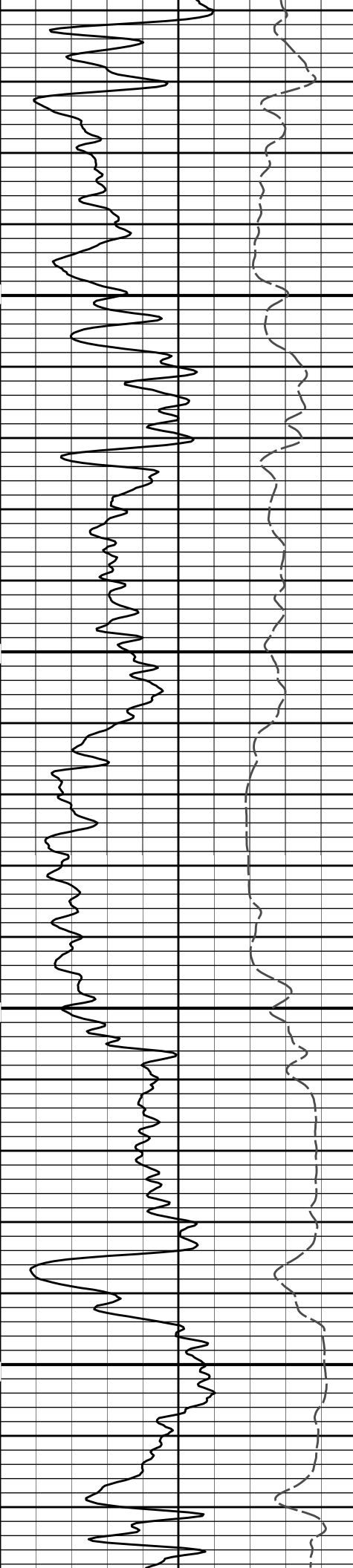




1500

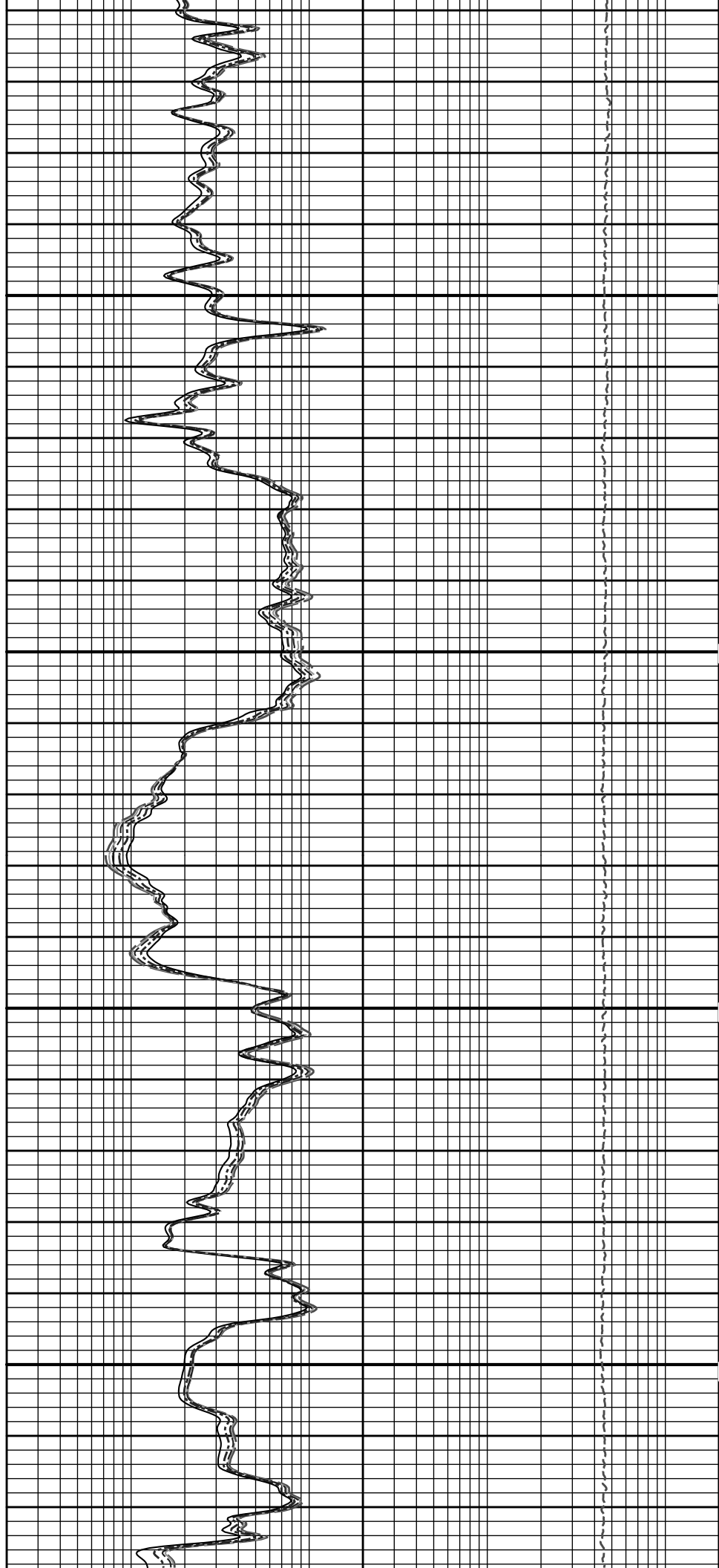
1600

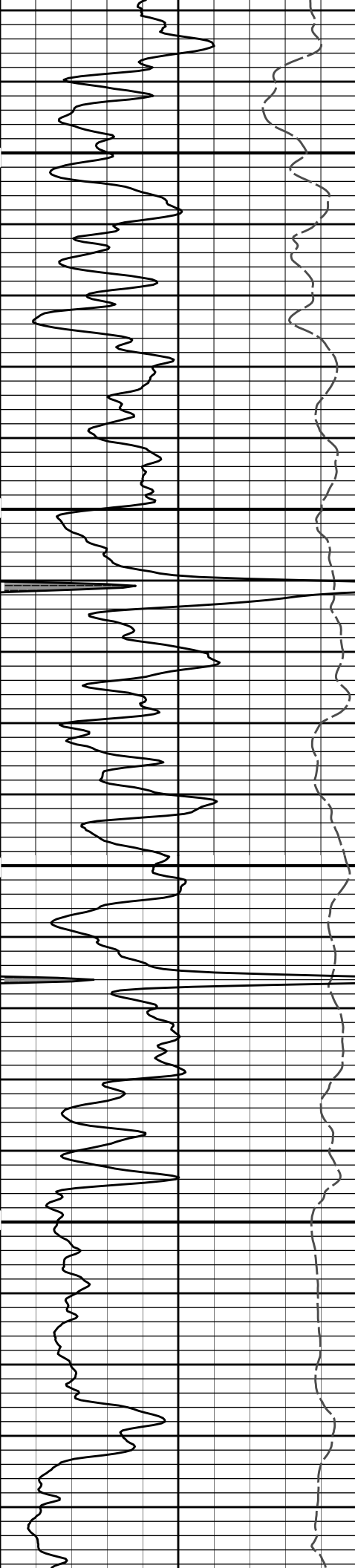




1700

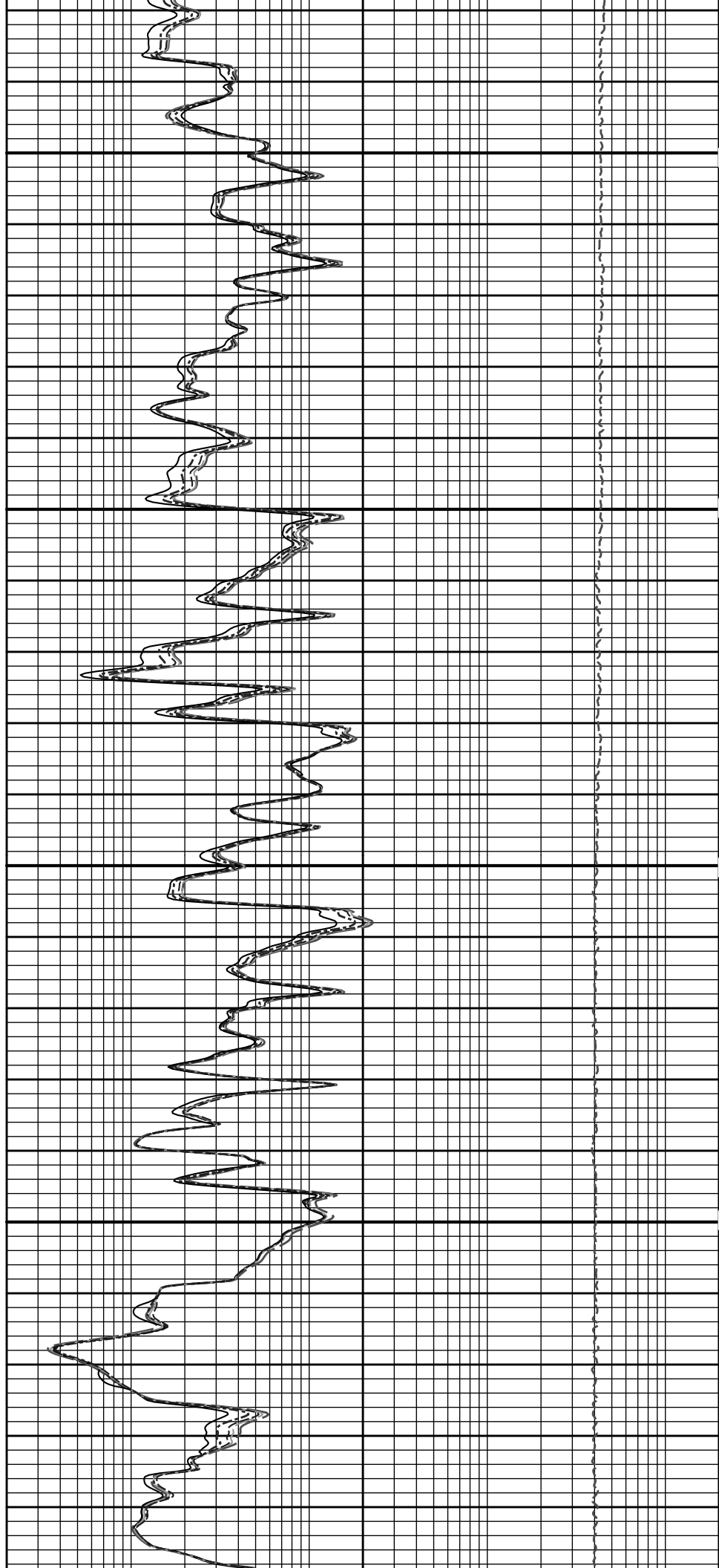
1800

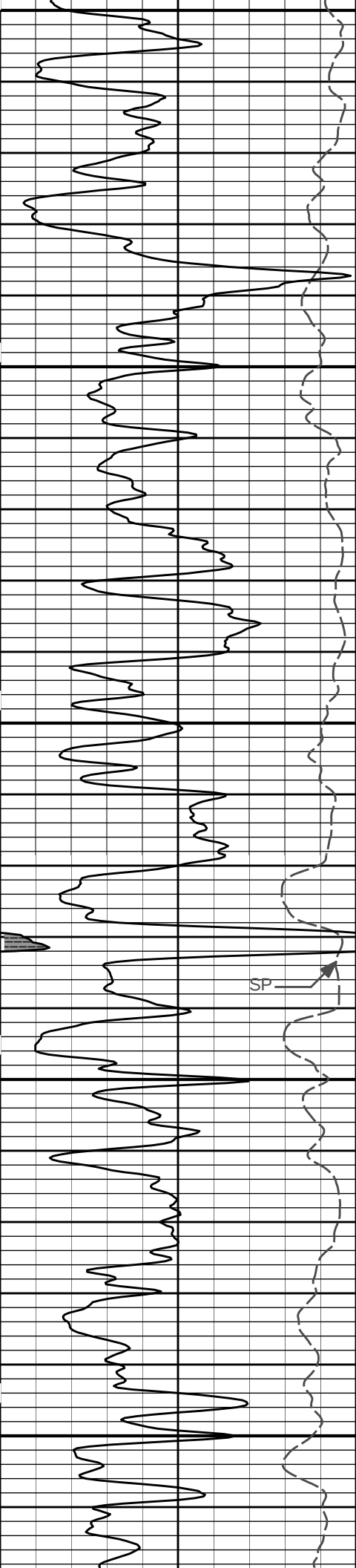




1900

2000

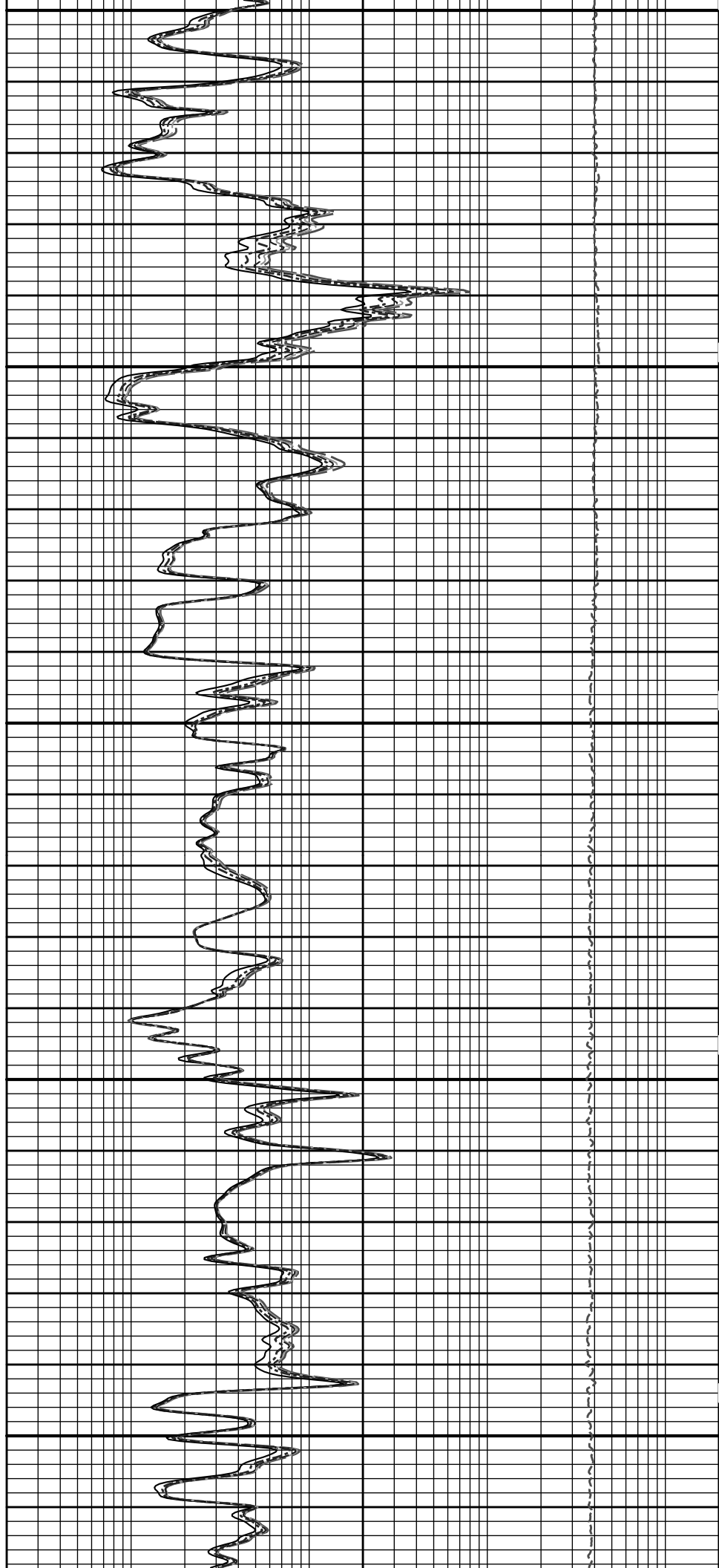


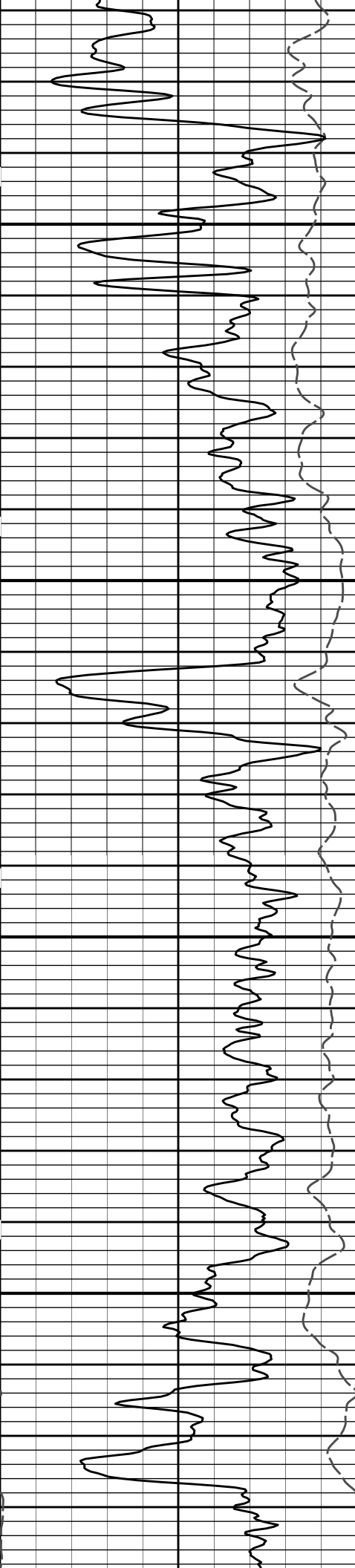


2100

2200

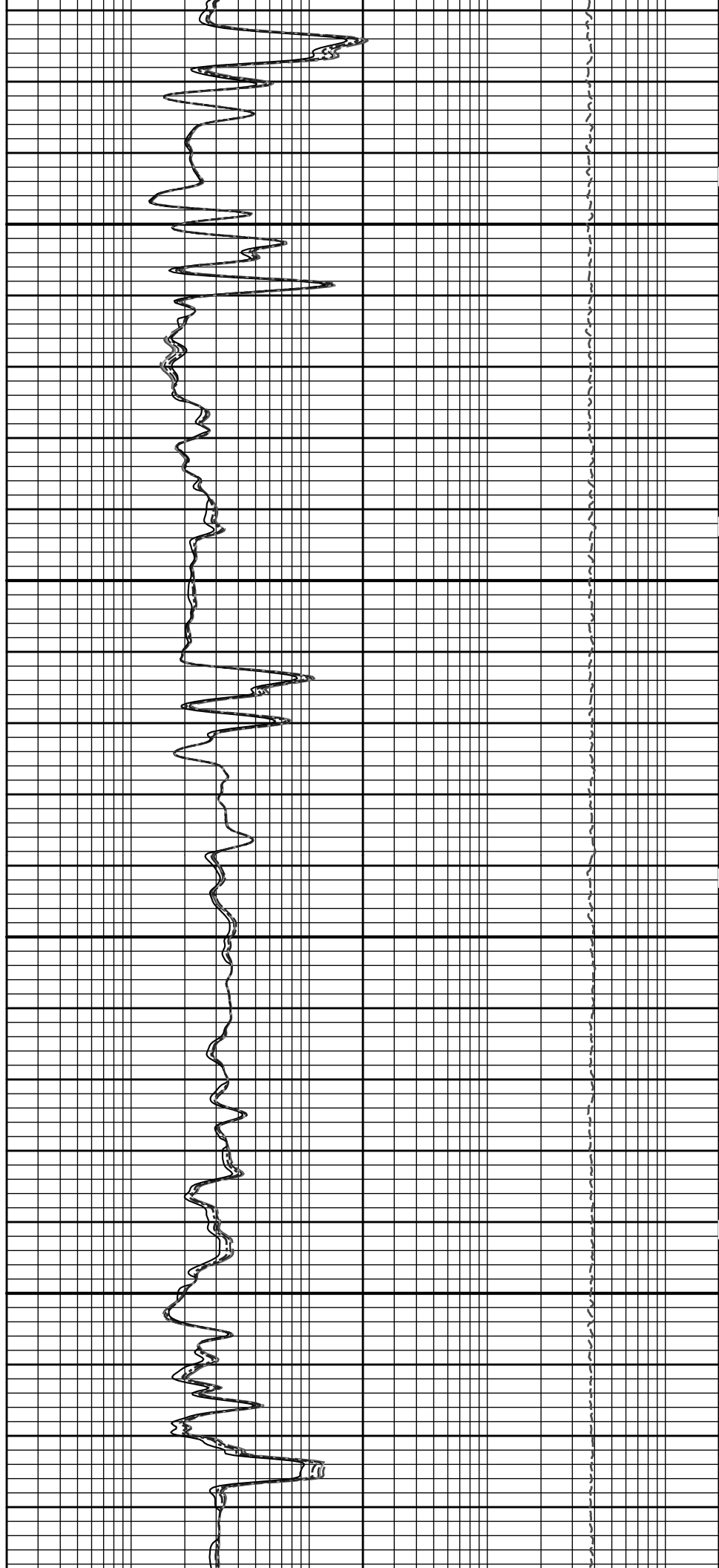
2300

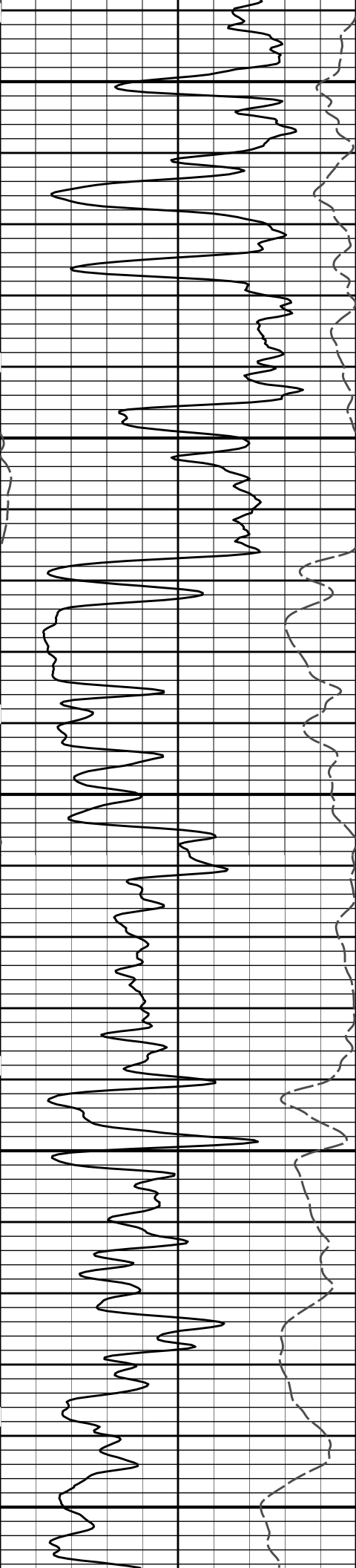




2400

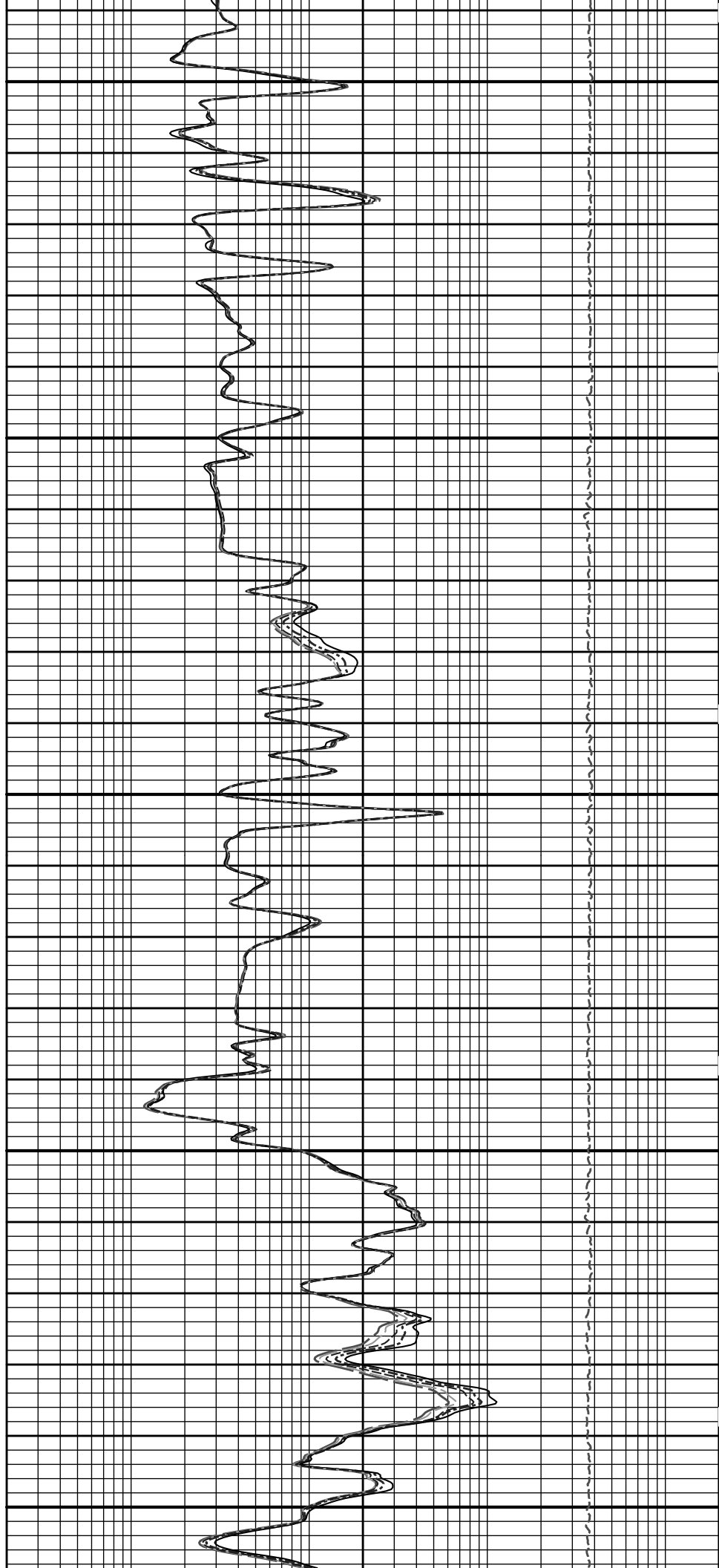
2500

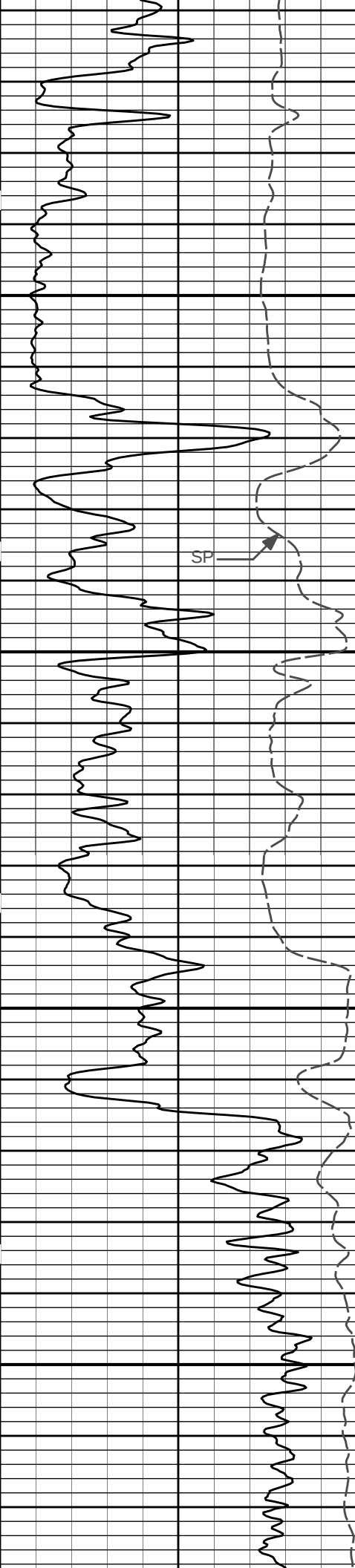




2600

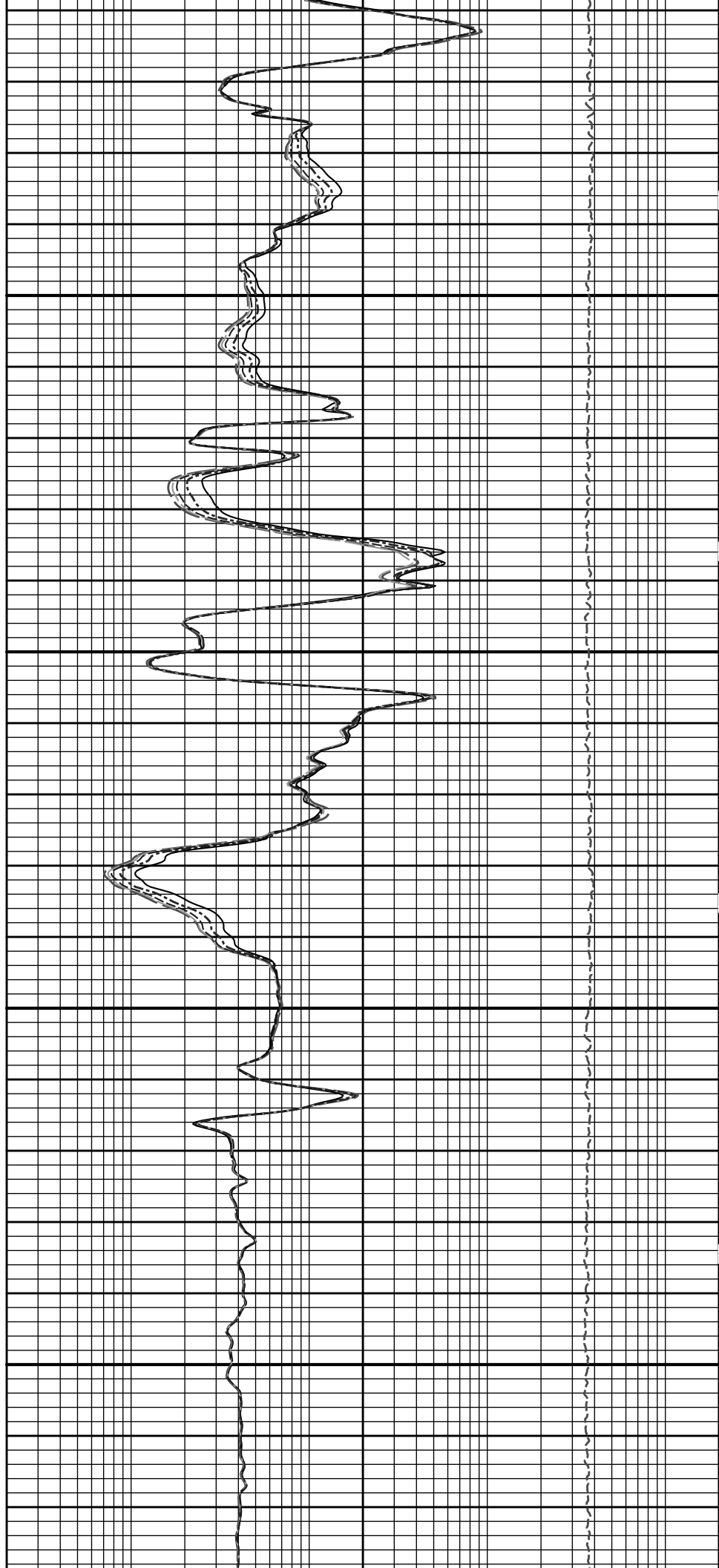
2700

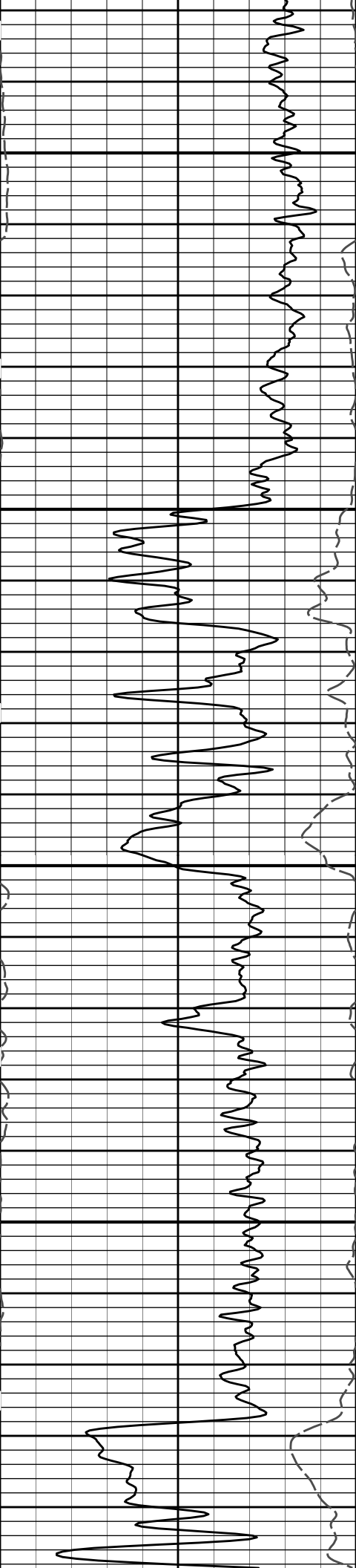




2800

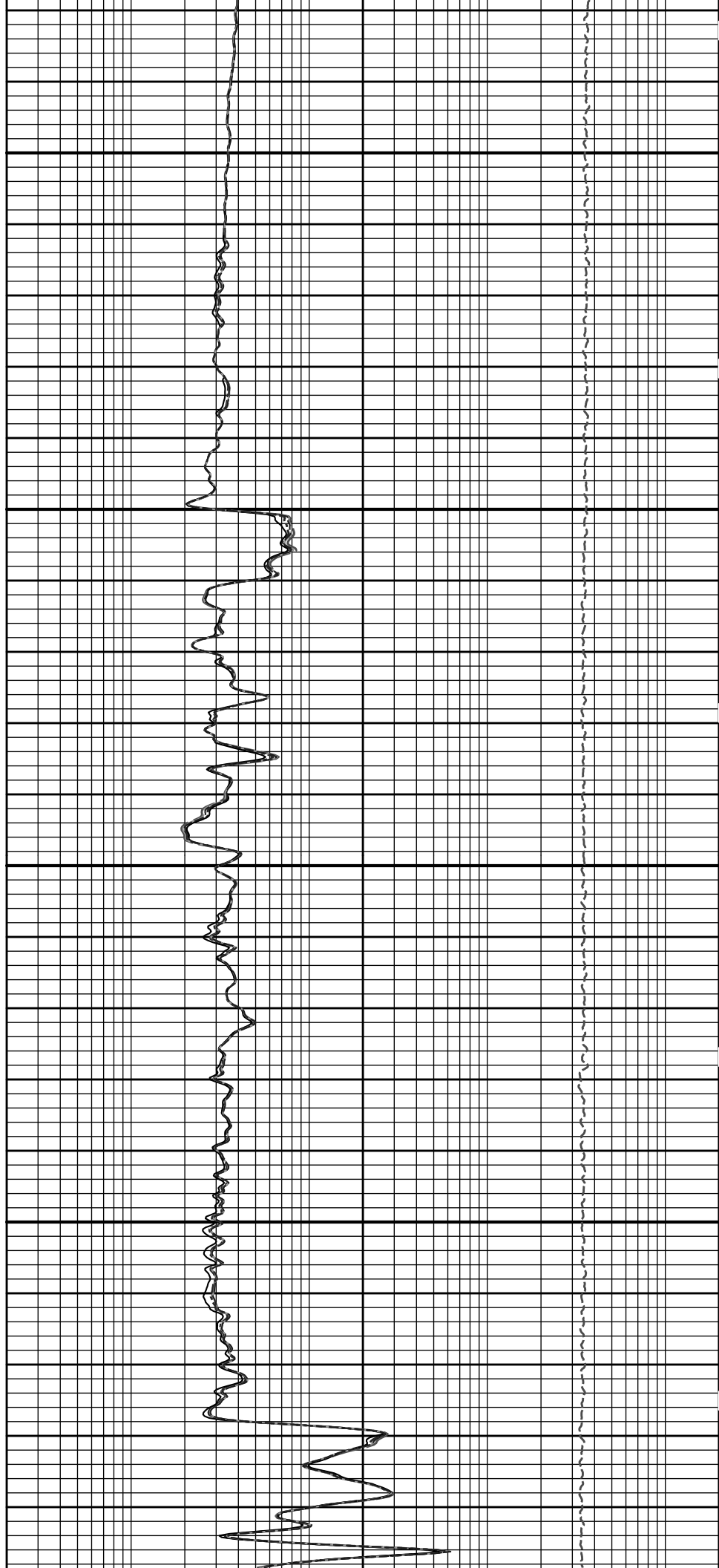
2900

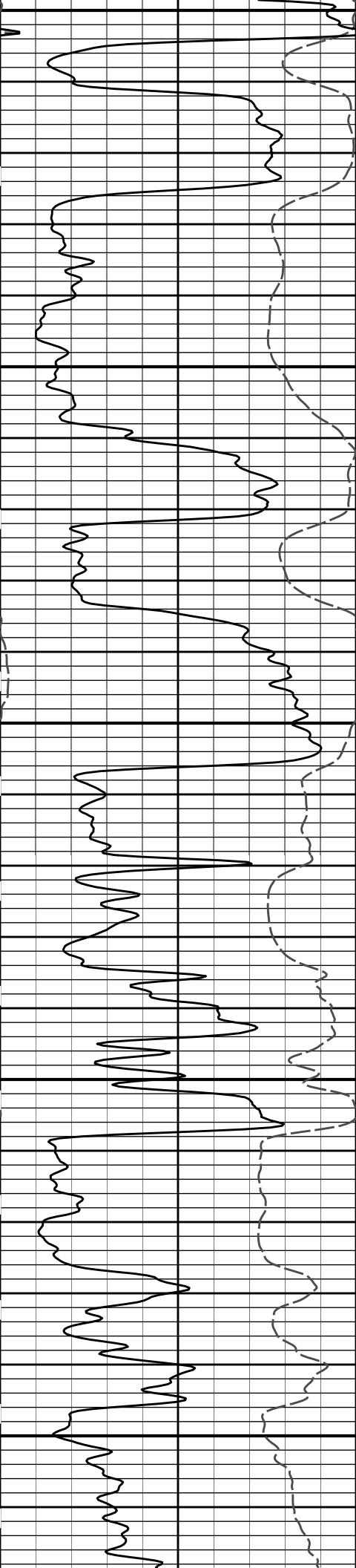




3000

3100

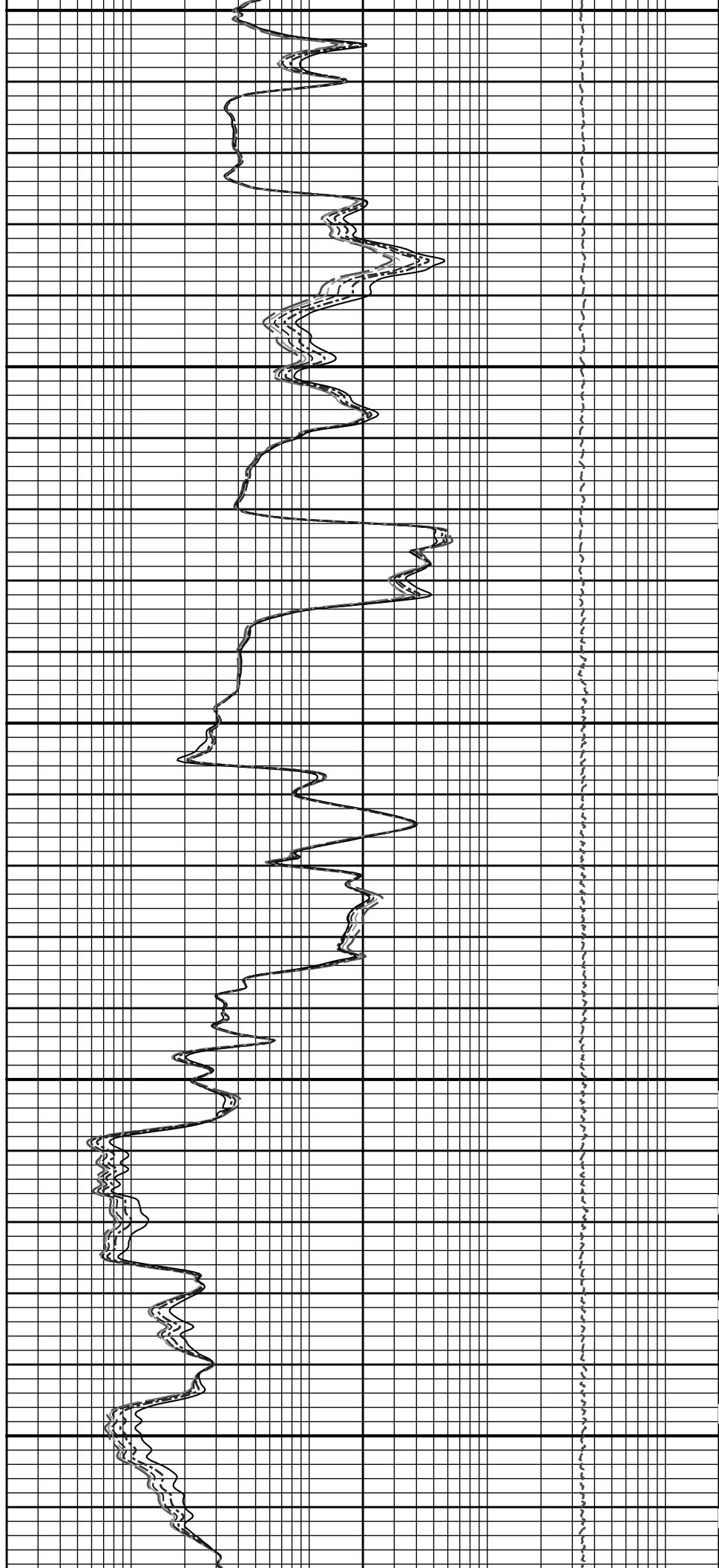


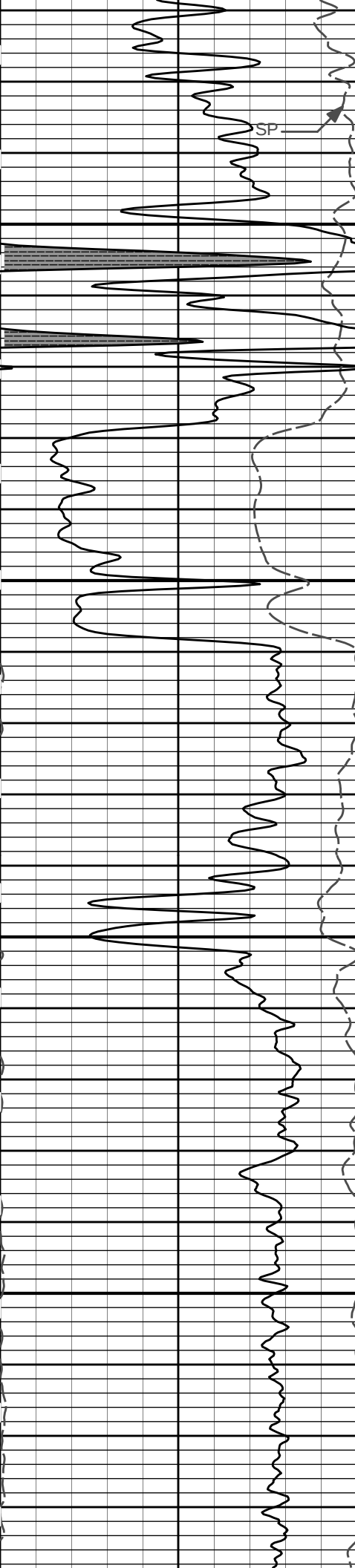


3200

3300

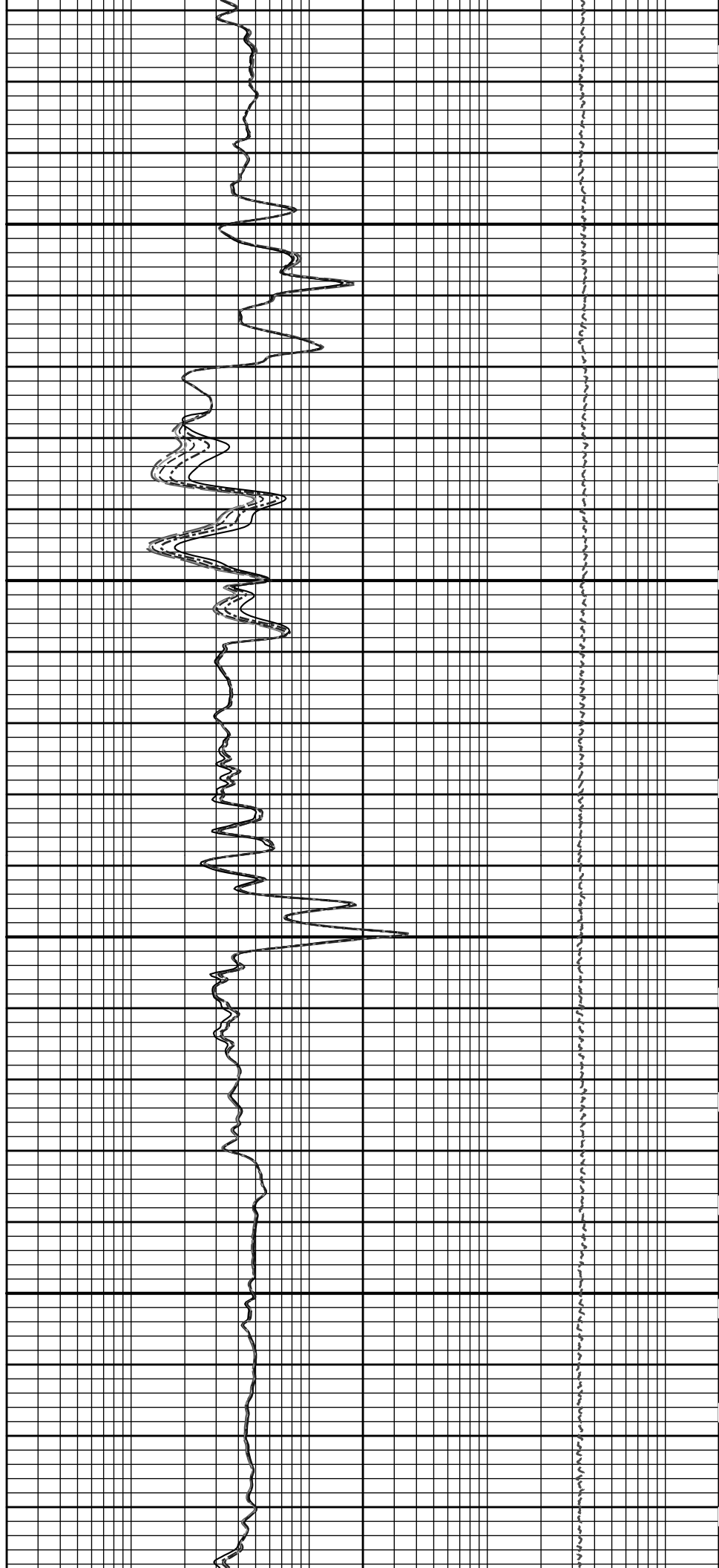
3400

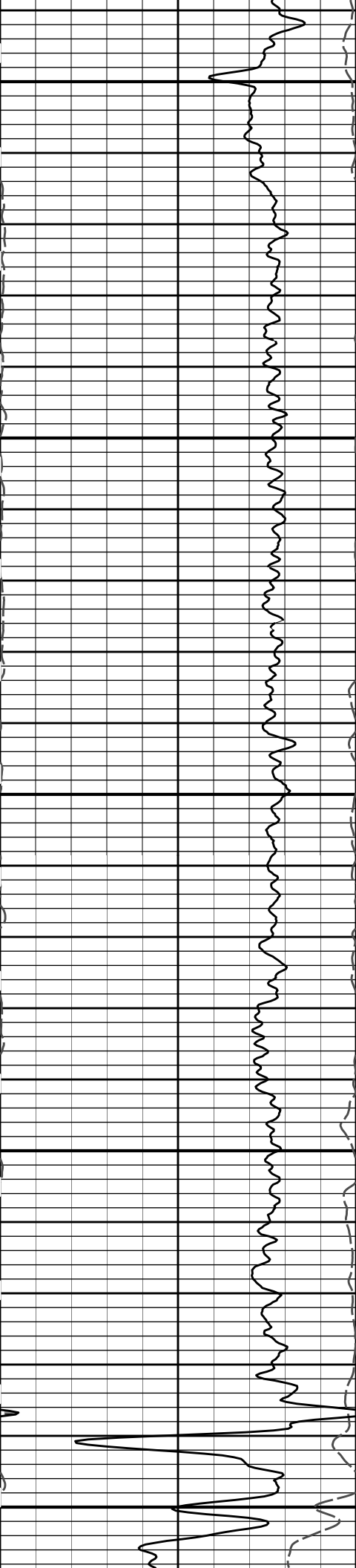




3500

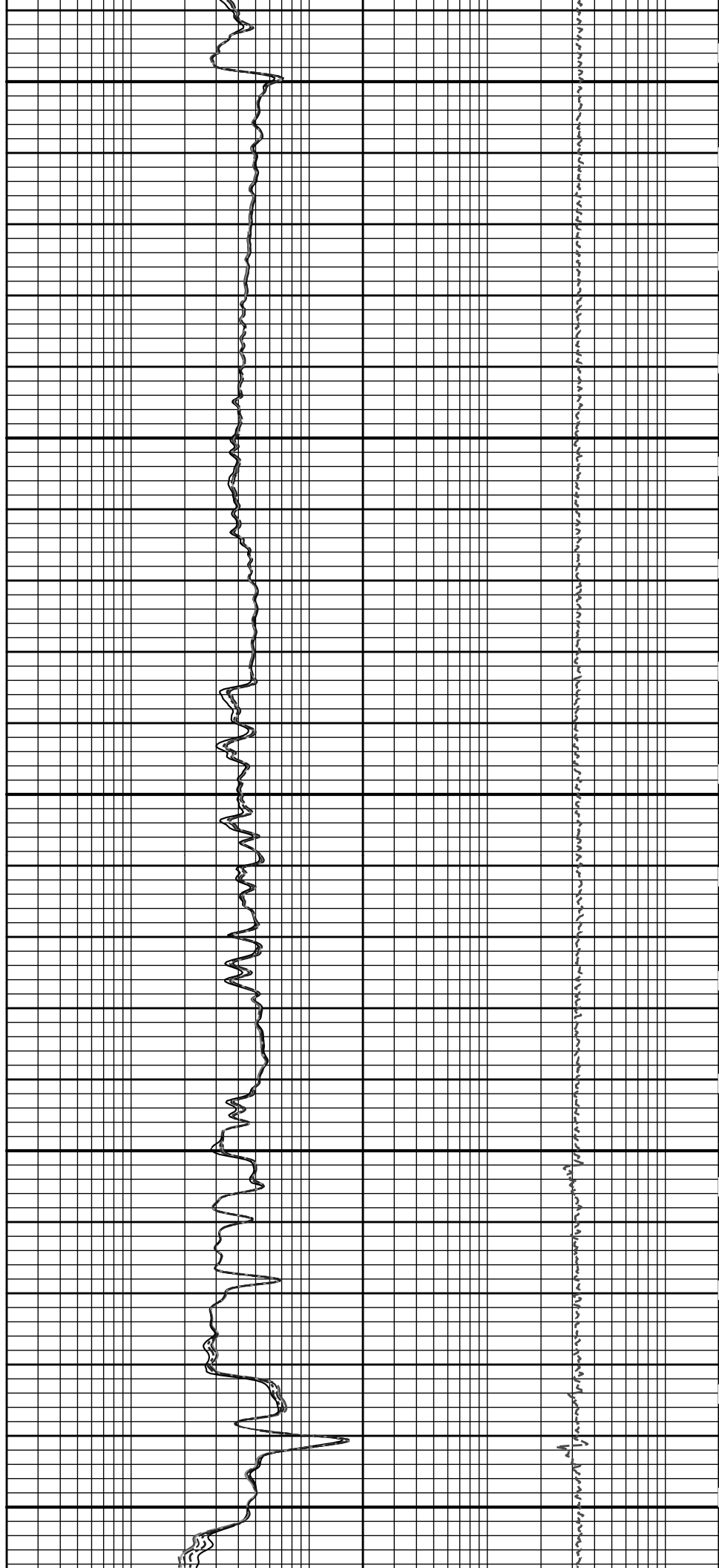
3600

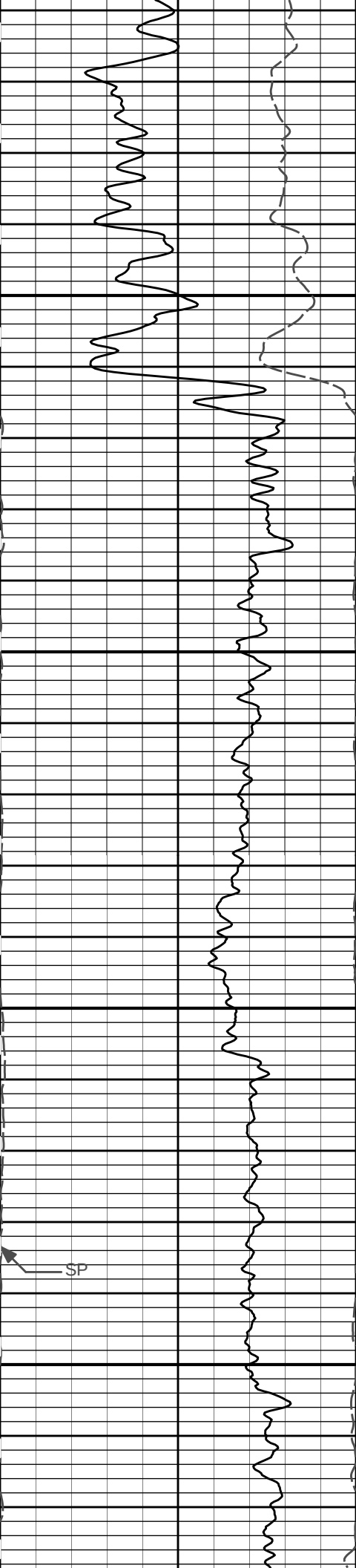




3700

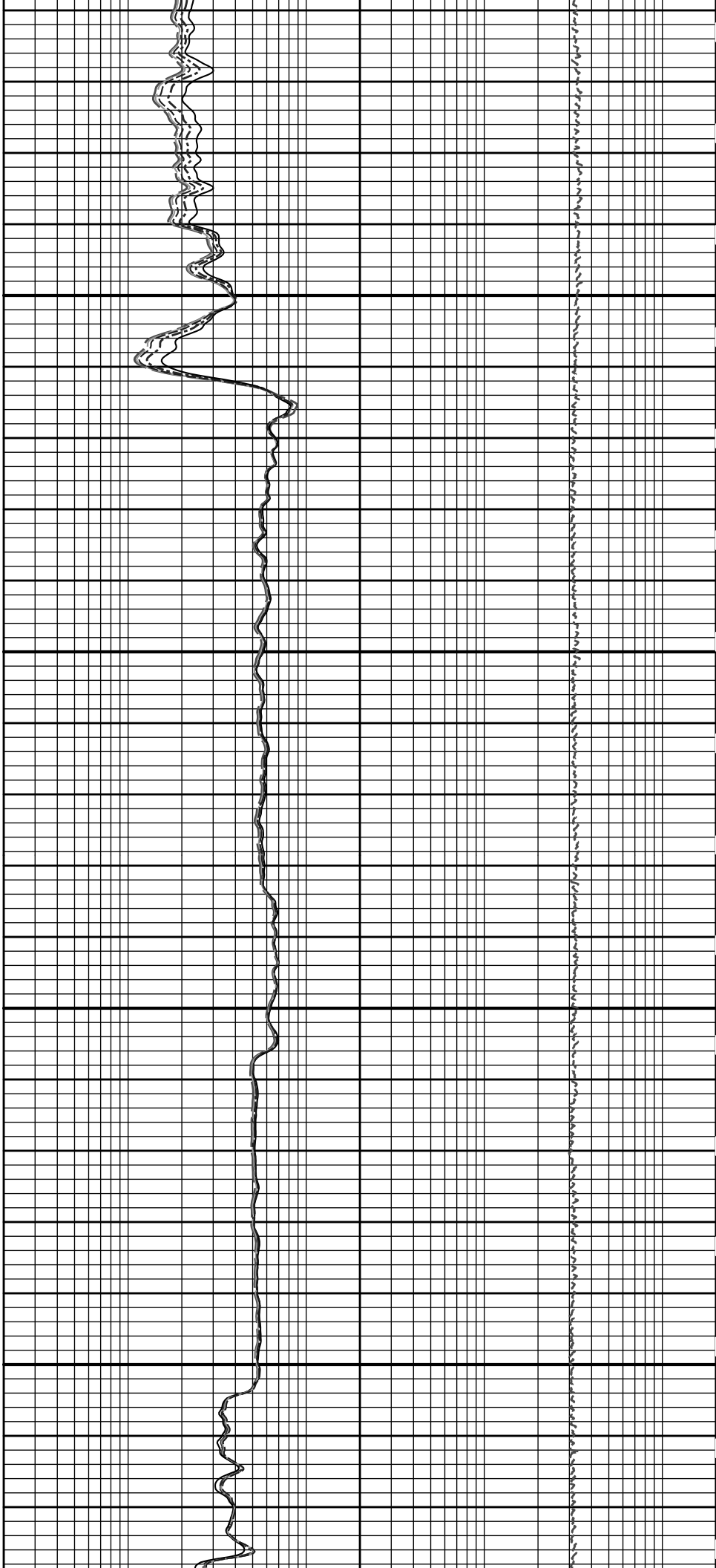
3800

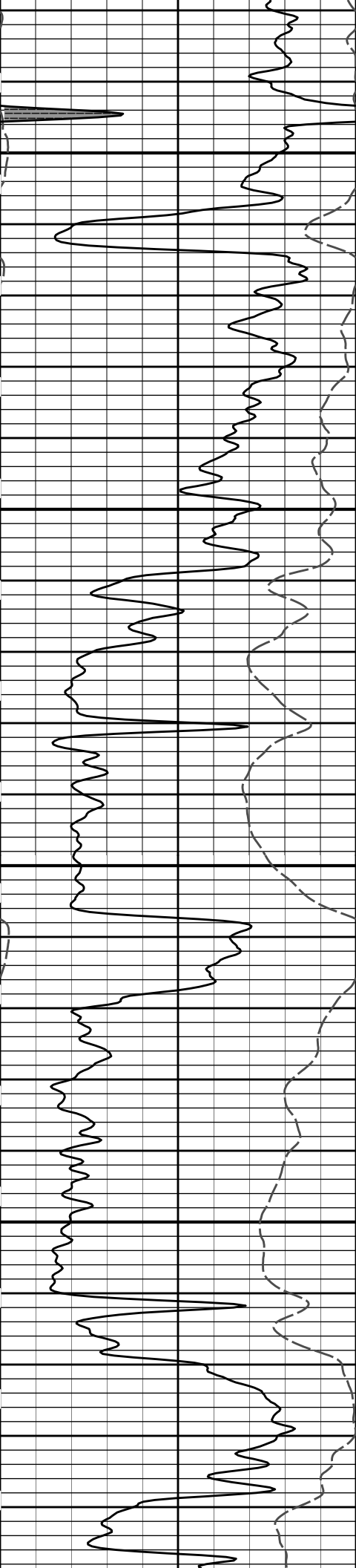




3900

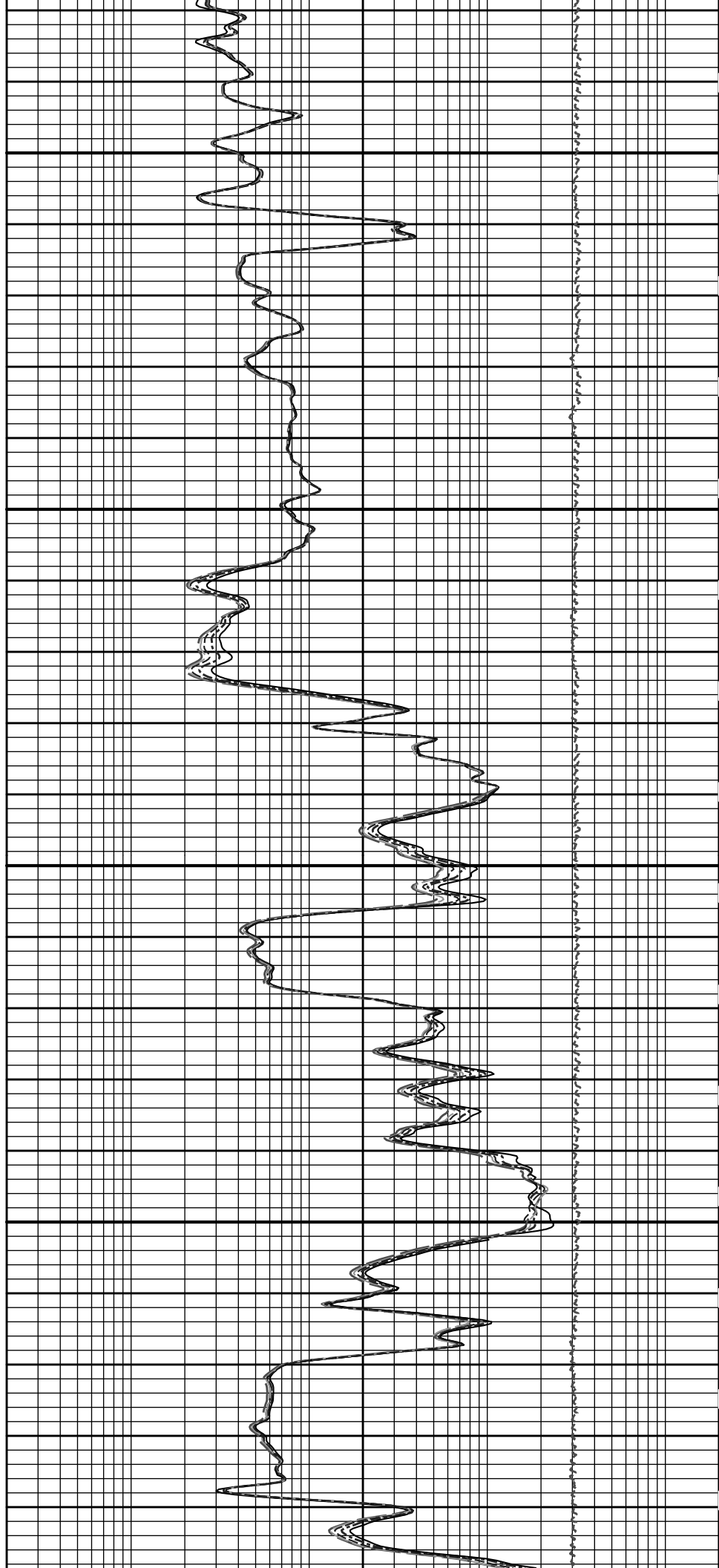
4000

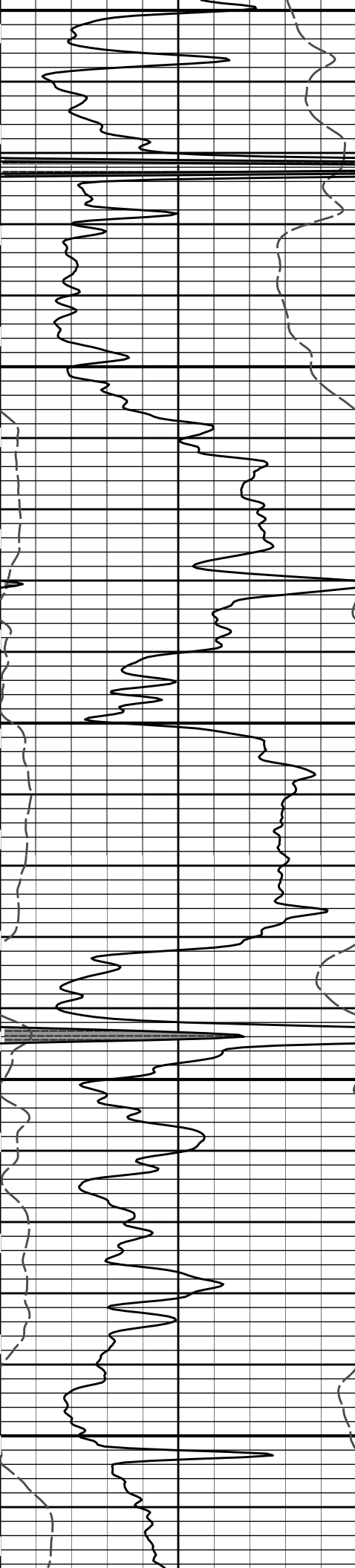




4100

4200

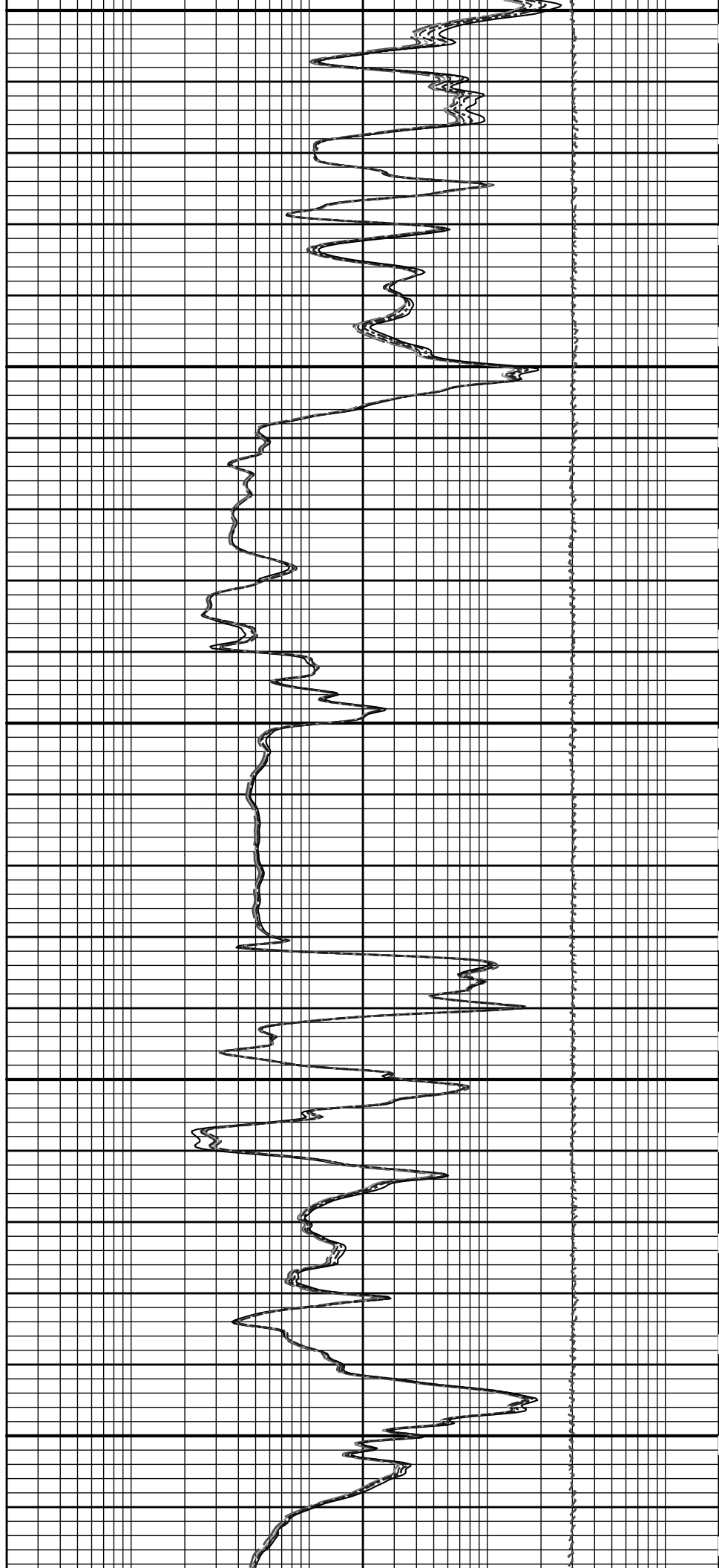


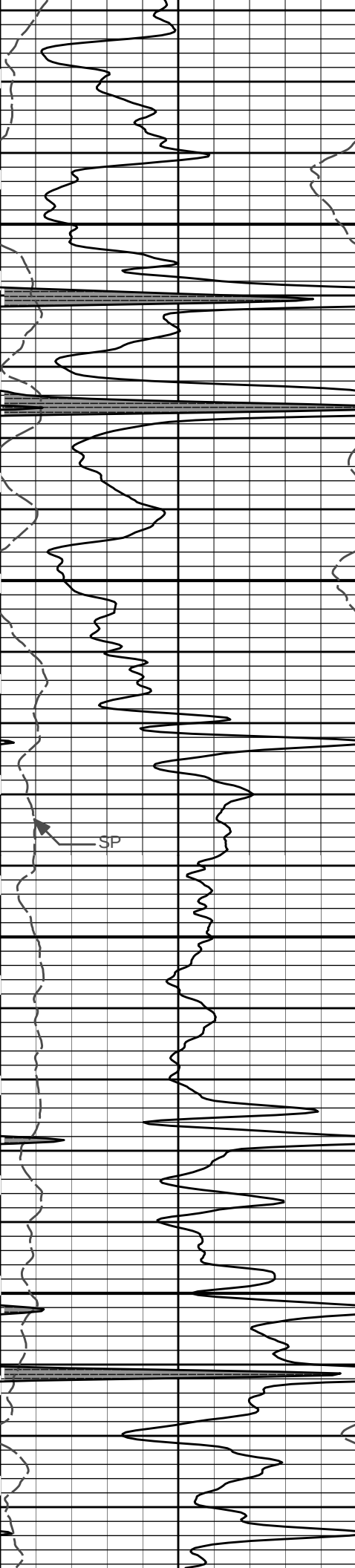


4300

4400

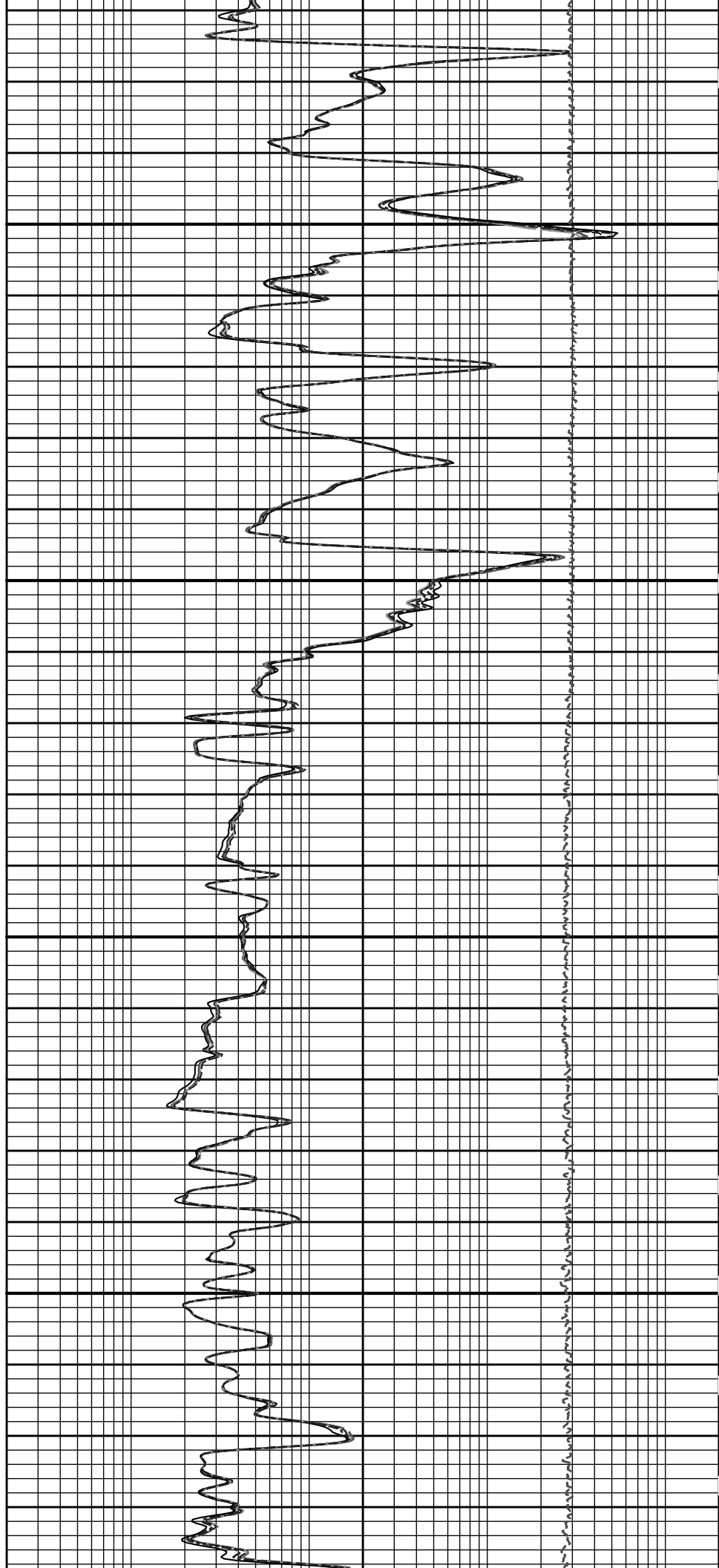
4500

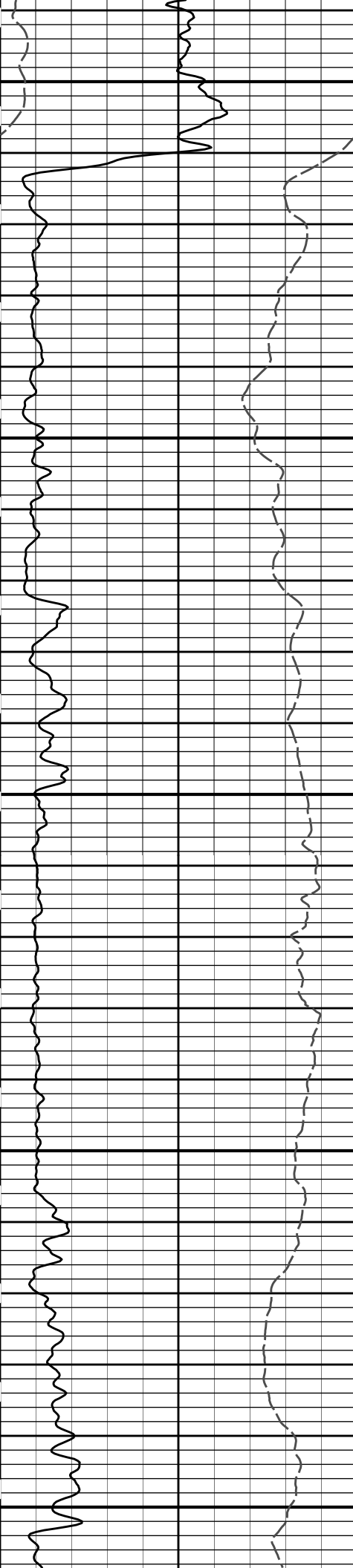




4600

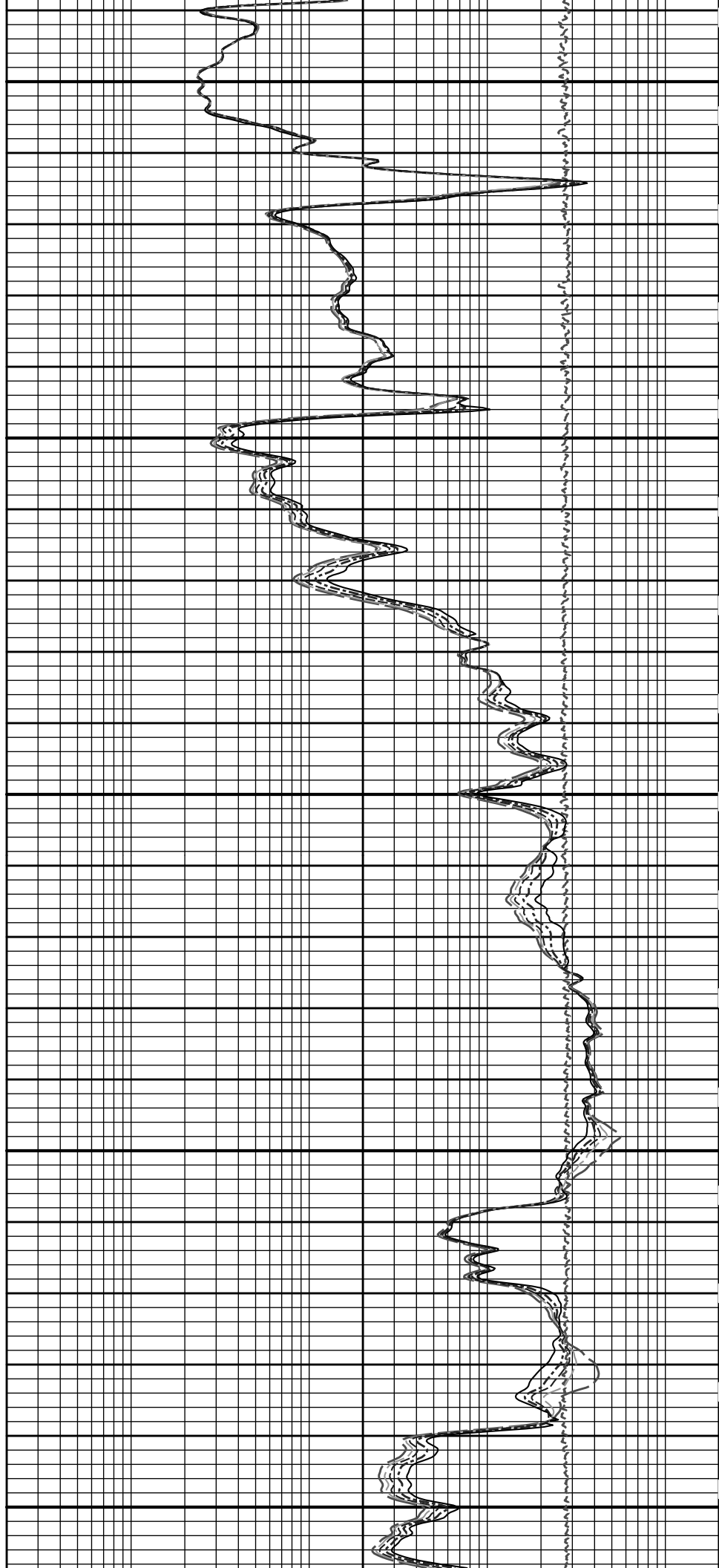
4700

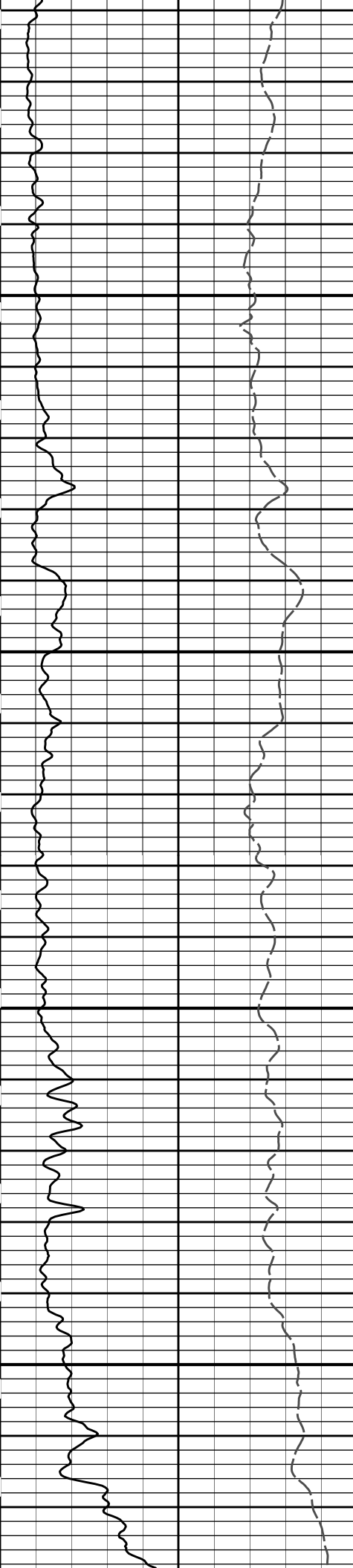




4800

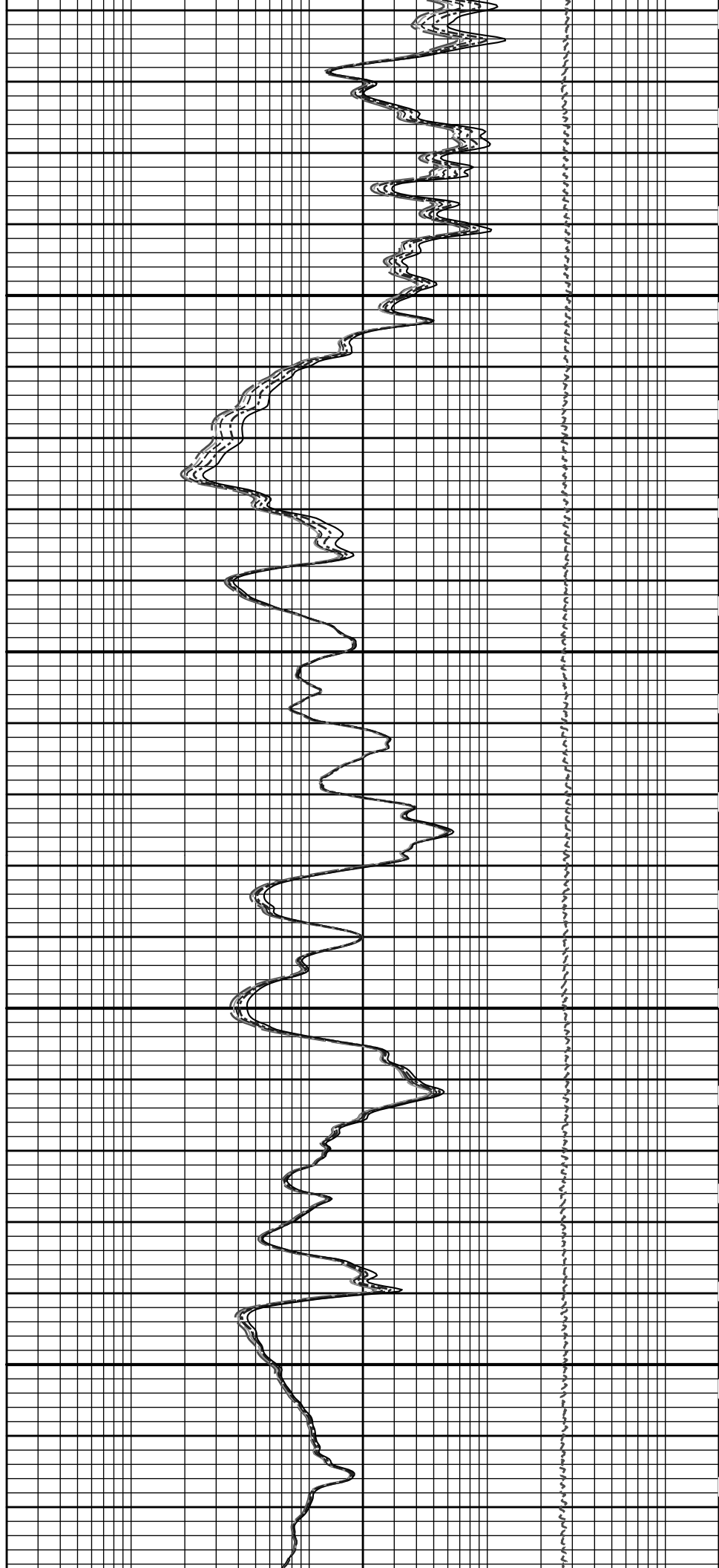
4900

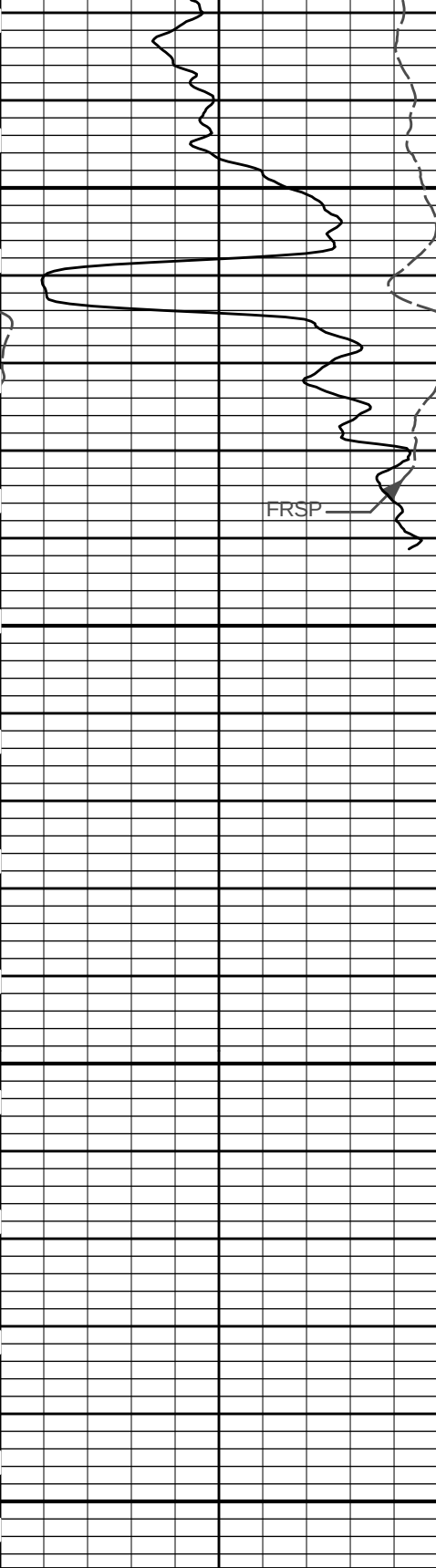




5000

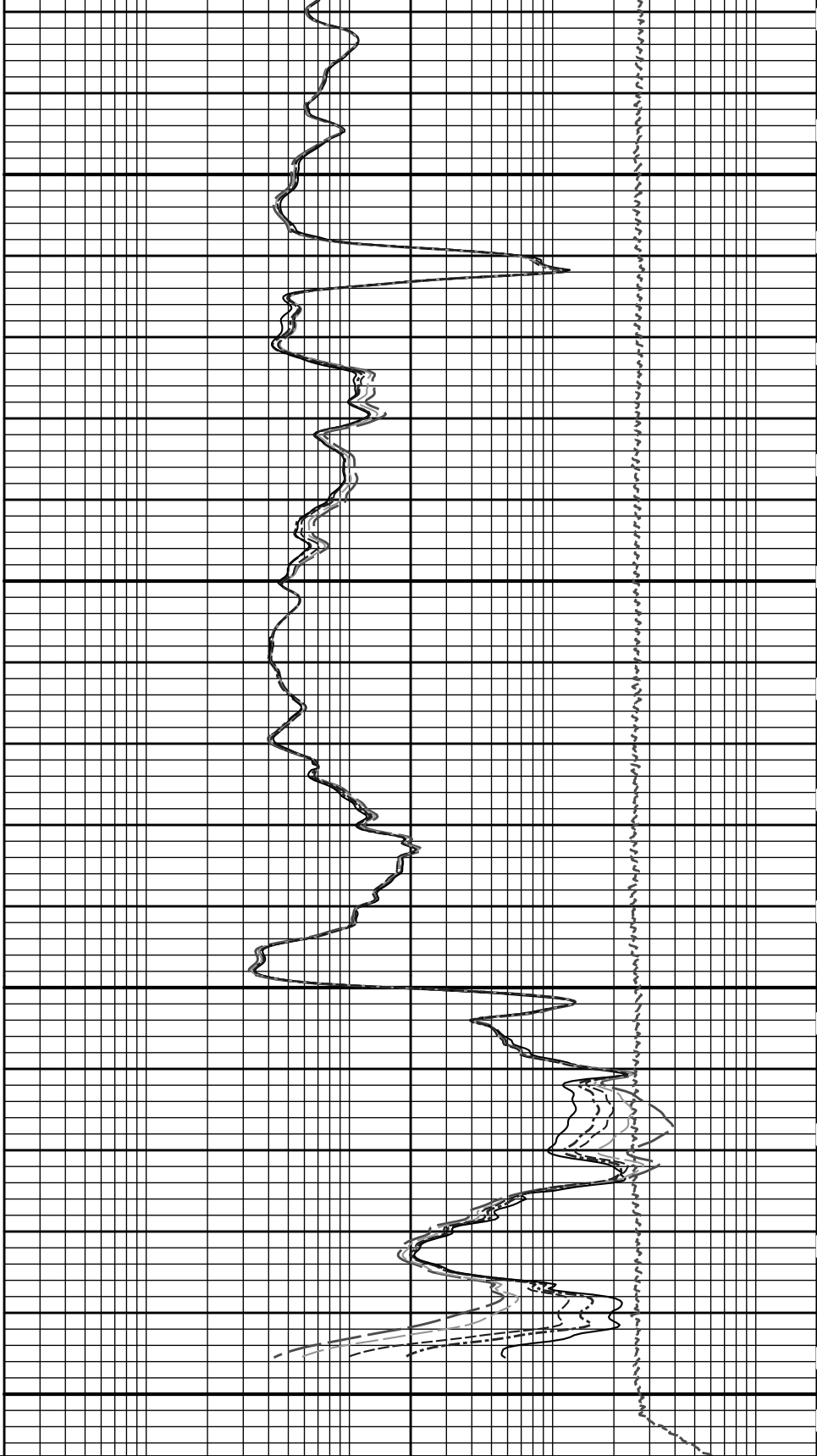
5100





5200

5300



SP		
-]20[+		
0	Gamma API	150
api		
SHALE		

MD
1 : 240
ft

10K	Tension	0
pounds		
0.2	10in Resistivity 2ft Res	2000
ohmm		
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: 19-Jul-13 23:14:23

Plot Range: 820 ft to 5357.67 ft

Data: NANCY_3507_1-10\Well Based\CASING

Plot File: \\-LOCAL-\\NANCY 3507 1-10\\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\\ACRT\\ACRT 5 main lib

5 INCH MAIN LOG

HALLIBURTON Plot Time: 19-Jul-13 23:14:24
 Plot Range: 5000 ft to 5356.67 ft
 Data: NANCY_3507_1-10\Well Based\REPEAT\
 Plot File: \\LOCAL-1\NANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\ACRT\ACRT_5_repeat.lib

HALLIBURTON

Plot Time: 19-Jul-13 23:14:24

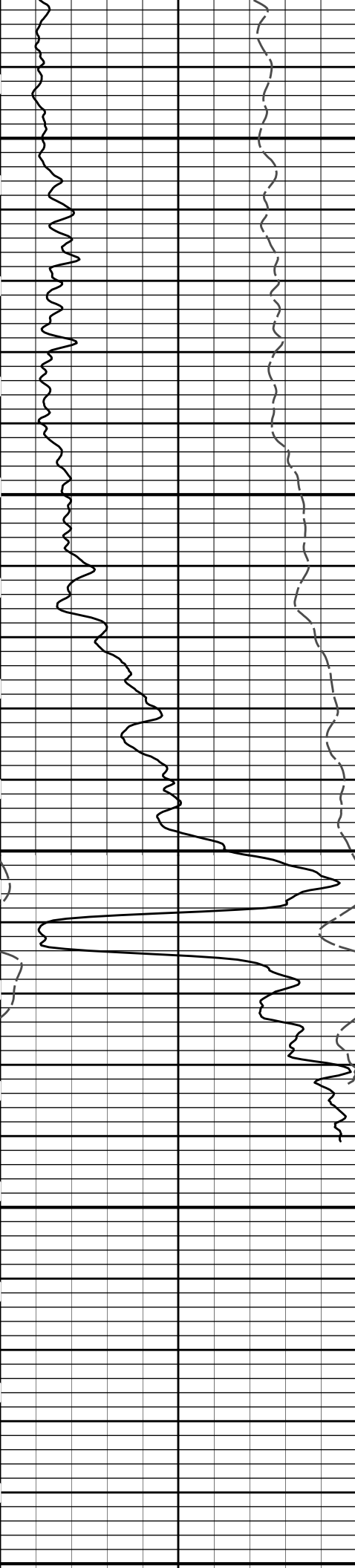
Plot Range: 5000 ft to 5356.67 ft

Data: NANCY_3507_1-10\Well Based\REPEAT

Plot File: \\-LOCAL-INANCY 3507 1-10\\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\\ACRT\\ACRT 5 repeat lib

REPEAT SECTION

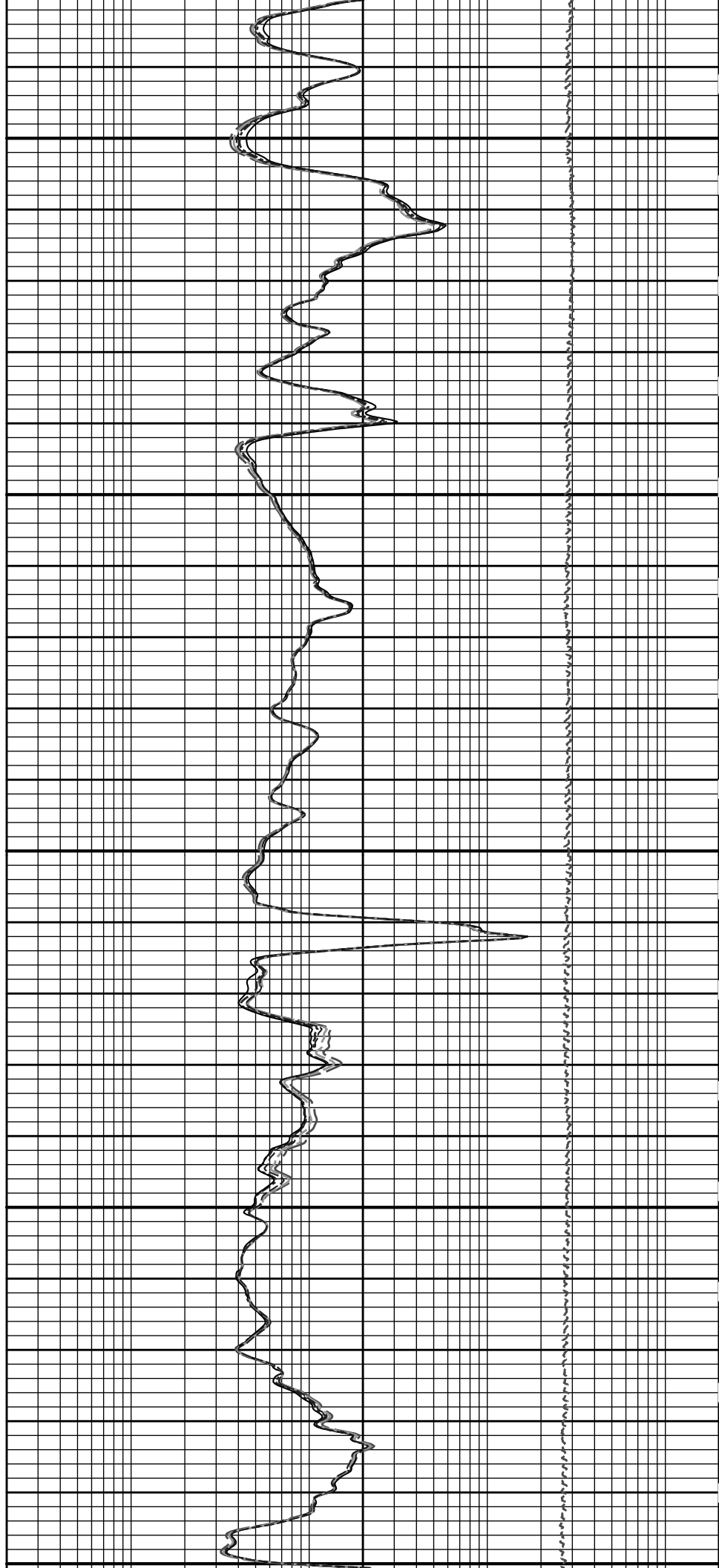
[illegible]

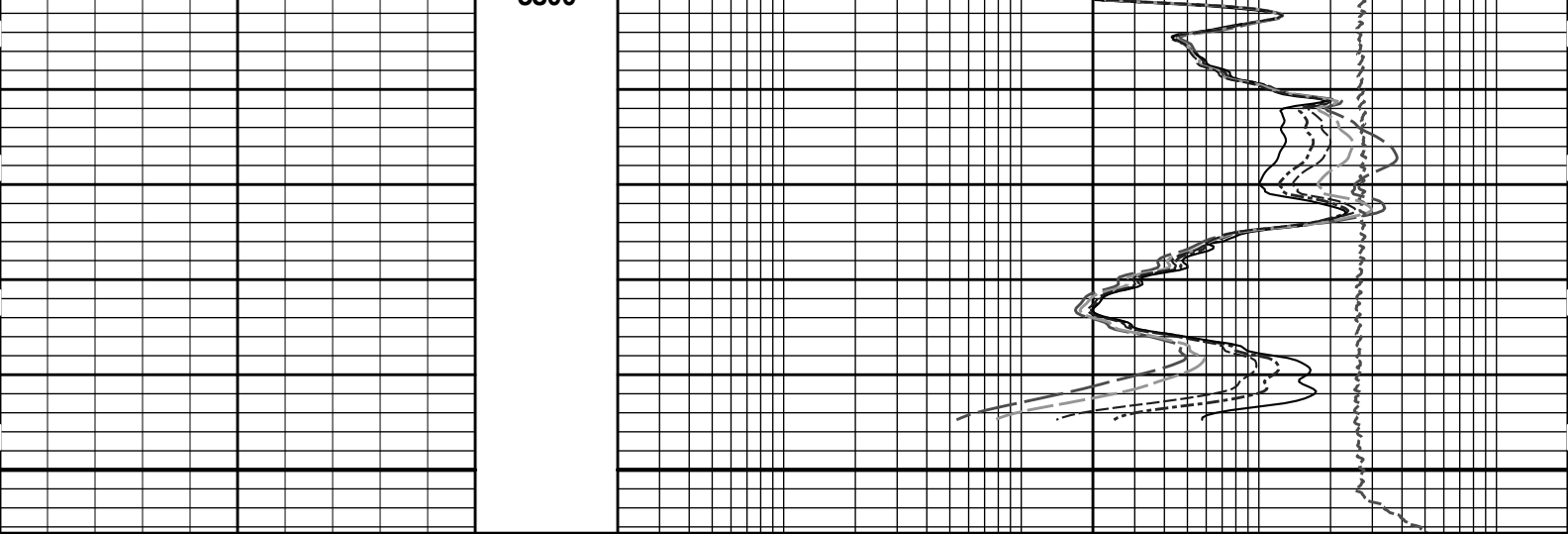


5100

5200

5300





SP -]20[+ 0 Gamma API 150 api SHALES	MD 1 : 240 ft		10K Tension 0
			pounds
		0.2	10in Resistivity 2ft Res 2000
			ohmm
		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: 19-Jul-13 23:14:27
Plot Range: 5000 ft to 5356.67 ft
Data: NANCY_3507_1-10\Well Based\REPEAT\
Plot File: \\LOCAL\NANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\ACRTIACRT_5_repeat_lib

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 @ 127.96 ft	3.03 ft	128.99 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 124.18 ft	3.74 ft	125.96 ft
						122.22 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →			8.52 ft	

CSNG-10736164
114.00 lbs

Ø 3.625 in →

← GammaRay @ 116.16 ft

8.17 ft

113.70 ft

DSNT-10755066
174.00 lbs

DSN Decentralizer-
10755066
6.60 lbs

Ø 5.000 in* →

Ø 3.625 in →

← CSNG @ 108.07 ft

105.53 ft

9.69 ft

105.53 ft

← DSN Far @ 98.60 ft

← DSN Near @ 97.85 ft

95.85 ft

SDLT-10685803
360.00 lbs

SDLT Pad-10673790
65.00 lbs
Microlog Pad-10685803
8.00 lbs

Ø 4.500 in →

Ø 4.750 in* →

Ø 4.750 in* →

Microlog @ 88.03 ft
SDL Caliper @ 87.85 ft
SDL @ 87.84 ft

10.81 ft

85.03 ft

IQ Flex-10000954
140.00 lbs

Ø 3.625 in →

5.67 ft

XRMI Isolator-
00000001
32.50 lbs

Ø 4.500 in →

1.30 ft

79.36 ft

78.06 ft

XRMI-I Instrument-
10967399
290.00 lbs

Ø 4.500 in →

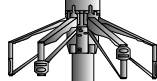
13.00 ft

65.06 ft

XRMI-I Mandrel-
262-90296662
206.00 lbs

Ø 5.000 in →
Ø 4.500 in →

11.16 ft



Pads 2, 4, 6 @ 56.67 ft
Pads 1, 3, 5 @ 56.44 ft

53.90 ft

Centralizer 25-00000001
8.00 lbs

Ø 4.000 in* →



Wavesonic-I-
10753396
520.00 lbs

Ø 3.625 in →

34.07 ft

← Wavesonic Delay @ 31.33 ft

Centralizer 25-00000002
8.00 lbs

Ø 4.000 in* →



19.83 ft

ACRt Instrument-
10929776
50.00 lbs

Centralizer 25-00000003
8.00 lbs

Ø 4.000 in* →
Ø 3.625 in →



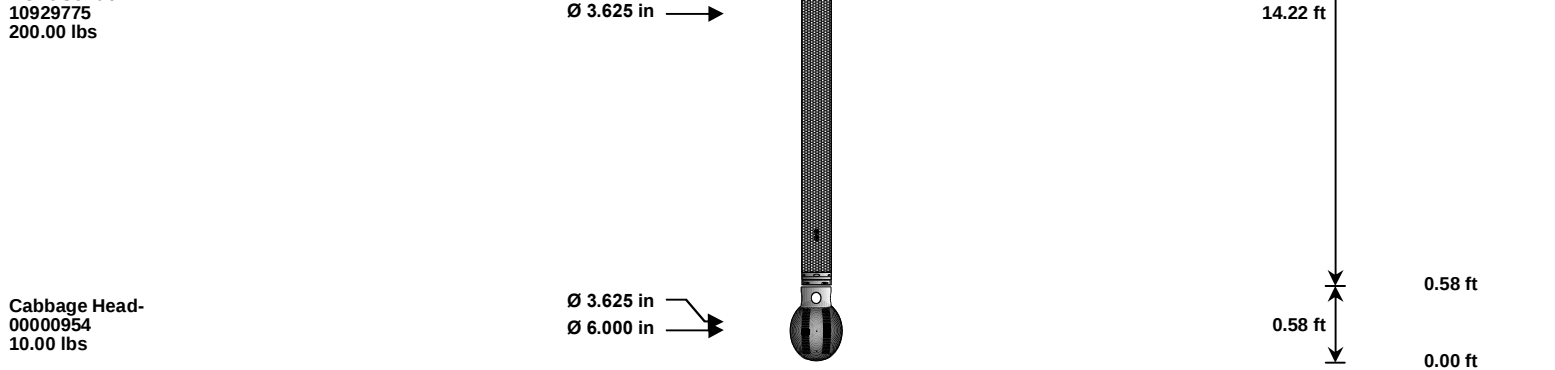
5.03 ft

14.80 ft

← Mud Resistivity @ 13.44 ft

← ACRt @ 9.46 ft

ACRt Sonde-



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	125.96	300.00
SP	SP Sub	12345678	60.00	3.74	122.22	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52	113.70	60.00
CSNG	Compensated Spectral Natural Gamma	10736164	114.00	8.17	105.53	15.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	95.85	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	* 99.18	300.00
SDLT	Spectral Density Tool	10685803	360.00	10.81	85.03	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55	* 87.24	60.00
MICP	Microlog Pad	10685803	8.00	1.00	* 87.53	60.00
IQF	IQ Flex tool	10000954	140.00	5.67	79.36	300.00
	Isolator for the XRMI tool	00000001	32.50	1.30	78.06	300.00
XRMI	XRMI Navigation - Insite	10967399	290.00	13.00	65.06	30.00
XRMI-I	XRMI Imager - Insite	262-90296662	206.00	11.16	53.90	30.00
WSTT	WaveSonic Insite	10753396	520.00	34.07	19.83	30.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	* 22.85	300.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	* 48.74	300.00
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			2,462.60	128.99		
						* Not included in Total Length and Length Accumulation.
Data: NANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\IDLE						Date: 19-Jul-13 17:07:14

HALLIBURTON			
CALIBRATION REPORT			
NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 10811258	Reference Calibration Date:	05-Jun-13 10:17:04
Engineer:	S. INGERSOLL	Calibration Date:	01-Jul-13 12:19:31
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	35.8	34.7	api
Background + Calibrator	274.6	266.7	api
Calibrator	238.8	232.0	api
NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 10811258	Reference Calibration Date:	01-Jul-13 12:19:31
Engineer:	J. BOLLOM	Calibration Date:	17-Jul-13 10:53:59

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		34.7	41.7	api	
		Background + Calibrator		266.7	268.2	api	
		Calibrator		232.0	226.6	api	
		Shop		Field	Difference	Tolerance	
		232.0		226.6	5.4	+/- 9.00	

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION								
Tool Name:		ACRt Sonde - 10929775			Reference Calibration Date:		04-May-13 10:38:01	
Engineer:		J. BOLLOM			Calibration Date:		21-Jun-13 11:07:27	
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	1.02	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	1.02	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	1.02	1.05	0.95	1.02	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	1.00	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	-1.85	2	-6	-4.44	-2	-8	-4.49	-2
A2 (50")	-7	-2.92	0	-7	-4.22	0	-7	-4.27	0
A3 (29")	-27	-14.77	-9	-9	-4.64	-3	-7	-2.81	-1
A4 (17")	-180	-103.87	-60	-45	-32.62	-15	-39	-25.57	-13
A5 (10")	N/A	N/A	N/A	-150	-120.52	-50	-80	-55.86	-10
A6 (6")	N/A	N/A	N/A	175	277.84	525	90	137.99	270

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.88	1.3	Mud Cell	0.95	0.99	1.05
36K	1.0	1.20	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	226.6	-----	5.4	+/- 9.00	api
ACRt Sonde-10929775						
Mud Cell	0.99	-----	-----	0.00	-----	ohm-m
Data: NANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\IDLE						
Date: 19-Jul-13 17:55:45						
HALLIBURTON PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP						
	GTET	GEOK	Process Gamma Ray EVR?	No		
	DSNT	DEOK	Process DSN EVR?	No		
	SDLT Pad	DNOK	Process Density EVR?	No		
3200.00						
	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	9.700	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	5365.00	ft	
	SHARED	BHT	Bottom Hole Temperature	200.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	XRMI-I Instrument		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	XRMI-I Instrument		
	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?	Yes		

GTET	GEOK	Process Gamma Ray EVR?	Yes	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
CSNG	CGOK	Process CSNG Data?	Yes	
CSNG	CENT	Is Tool Centralized?	No	
CSNG	GBOK	Gamma Enviromental Corrections?	Yes	
CSNG	BARF	Barite Correction Factor	1.00	
CSNG	ORDG	Use Fixed Gain	No	
CSNG	ORDO	Use Fixed Offset	No	
CSNG	ORDR	Use Fixed Resolution Degradation Factor	No	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	Yes	
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?	Yes	
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	
XRMI-I Instrument	WRTI	Survey Writing Interval	30	ft
XRMI-I Instrument	SOPT	Smoothing Option	None	
XRMI-I Mandrel	DIMG	Process XRMI?	Yes	
XRMI-I Mandrel	ROTI	Rotate Image (N-E-S-W-N)?	Yes	
XRMI-I Mandrel	AGN	Use Button Auto Gain?	Yes	
XRMI-I Mandrel	BCLR	Button Auto Gain Color	127	
XRMI-I Mandrel	BFIL	Button Auto Gain Filter	0.020	
XRMI-I Mandrel	BGAN	Button Gain Value	0.001	
XRMI-I Mandrel	BOFF	Button Offset	0	
XRMI-I Mandrel	DIPE	Process Dipmeter Calculations?	Yes	
XRMI-I Mandrel	BHCS	Process Borehole Corrections?	Yes	
XRMI-I Mandrel	CLOK	Process Caliper Outputs?	Yes	
XRMI-I Mandrel	CMAX	Caliper Maximum Limit	100.0	in
XRMI-I Mandrel	CMIN	Caliper Mimimum Limit	3.5	in
XRMI-I Mandrel	NAVS	Navigation Source Tool	XRMI-I Instrument	
XRMI-I Mandrel	BHVC	Radius type for borehole volume calcuations	Elliptical	
Wavesonic-I	WSOK	Process WSTT?	Yes	
Wavesonic-I	AFIL	Adaptive Filtering?	No	
Wavesonic-I	PINT	Process 1 Sample and Skip	0	
Wavesonic-I	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
Wavesonic-I	DTSH	Delta -T Shale	100.00	uspf
Wavesonic-I	DTMT	Delta -T Matrix Type	User define	
Wavesonic-I	DTMA	Delta -T Matrix	47.60	uspf
Wavesonic-I	DTFL	Delta -T Fluid	189.00	uspf
Wavesonic-I	RHOM	Matrix Density	2.7100	g/cc
Wavesonic-I	RHOF	Fluid Density	1.0000	g/cc
Wavesonic-I	SMTH	Semblance Threshold	0.25	
Wavesonic-I	VPVS	VPVS Ratio for Porosity	1.40	

Wavesonic-I	VPVS	VPVS Ratio for Porosity	1.40	
Wavesonic-I	APEQ	Acoustic Porosity Equation	Wyllie	
Wavesonic-I	NAVS	Navigation Source Tool	XRMI-I Instrument	
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: NANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\IDLE				Date: 19-Jul-13 17:08:18

HALLIBURTON				
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	124.18	NO	
SP	Spontaneous Potential	124.18	BLK	1.250
SPR	Raw Spontaneous Potential	124.18	NO	
SPO	Spontaneous Potential Offset	124.18	NO	
GTET				
TPUL	Tension Pull	116.16	NO	
GR	Natural Gamma Ray API	116.16	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	116.16	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	116.16	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
CSNG				
TPUL	Tension Pull	108.07	NO	
STAT	Status	108.07	NO	
FRMC	Tool Frame Count	108.07	BLK	0.250
TFRM	Total Frames	108.07	NO	
LSPD	Line Speed	108.07	BLK	0.250
CTIM	Accumulation time for sample	108.07	BLK	0.250
NOIS	Spectral Noise	108.07	BLK	0.250
STAB	Stabilizer Voltage in mv	108.07	BLK	0.250
STBP	Stabilizer 60 KEV Peak	108.07	BLK	0.250
AMER	Americium	108.07	BLK	0.250
FTMP	Flask PCB Temperature	108.07	BLK	0.250
SPEL	Low Energy Spectrum	108.07	BLK	0.250
SPEH	High Energy Spectrum	108.07	BLK	0.250

SSP	Stabilization Energy Spectrum	108.07	BLK	0.250
CSPC	CSNG Lo Hi Spectrum Data	108.07	NO	
DSNT				
TPUL	Tension Pull	97.75	NO	
RNDS	Near Detector Telemetry Counts	97.85	BLK	1.417
RFDS	Far Detector Telemetry Counts	98.60	TRI	0.583
DNTT	DSN Tool Temperature	97.85	NO	
DSNS	DSN Tool Status	97.75	NO	
ERND	Near Detector Telemetry Counts EVR	97.85	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	98.60	BLK	0.000
ENTM	DSN Tool Temperature EVR	97.85	NO	
SDLT				
TPUL	Tension Pull	87.85	NO	
PCAL	Pad Caliper	87.85	TRI	0.250
ACAL	Arm Caliper	87.85	TRI	0.250
XRMI-I Mandrel				
TPUL	Tension Pull	56.67	NO	
PAD1	XRMI Pad 1 values	56.44	NO	
PAD2	XRMI Pad 2 values	56.44	NO	
PAD3	XRMI Pad 3 values	56.44	NO	
PAD4	XRMI Pad 4 values	56.44	NO	
PAD5	XRMI Pad 5 values	56.44	NO	
PAD6	XRMI Pad 6 values	56.44	NO	
OD1	EMI Odd Button Values Pad 1	56.44	NO	
OD2	EMI Odd Button Values Pad 2	56.67	NO	
OD3	EMI Odd Button Values Pad 3	56.44	NO	
OD4	EMI Odd Button Values Pad 4	56.67	NO	
OD5	EMI Odd Button Values Pad 5	56.44	NO	
OD6	EMI Odd Button Values Pad 6	56.67	NO	
EV1	EMI Even Button Values Pad 1	56.46	NO	
EV2	EMI Even Button Values Pad 2	56.64	NO	
EV3	EMI Even Button Values Pad 3	56.46	NO	
EV4	EMI Even Button Values Pad 4	56.64	NO	
EV5	EMI Even Button Values Pad 5	56.46	NO	
EV6	EMI Even Button Values Pad 6	56.64	NO	
ITMP	Instrument Temperature	53.90	NO	
EMIM	Tool Mode	53.90	NO	
HAZI	Hole Azimuth	56.19	NO	
HAZI	Hole Azimuth - Down Delay	56.69	NO	
ZACC	Accelerometer Z	56.44	NO	
TPUL	Tension Pull	56.67	NO	
FIR1	Current Button R - Pad 1	56.44	NO	
FIR2	Current Button R - Pad 2	56.67	NO	
FIR3	Current Button R - Pad 3	56.44	NO	
FIR4	Current Button R - Pad 4	56.67	NO	
FIR5	Current Button R - Pad 5	56.44	NO	
FIR6	Current Button R - Pad 6	56.67	NO	
FIX1	Current Button X - Pad 1	56.44	NO	
FIX2	Current Button X - Pad 2	56.67	NO	
FIX3	Current Button X - Pad 3	56.44	NO	
FIX4	Current Button X - Pad 4	56.67	NO	
FIX5	Current Button X - Pad 5	56.44	NO	
FIX6	Current Button X - Pad 6	56.67	NO	

SIR1	Current Slow Button R - Pad 1	56.44	BLK	3.000
SIR2	Current Slow Button R - Pad 2	56.67	BLK	3.000
SIR3	Current Slow Button R - Pad 3	56.44	BLK	3.000
SIR4	Current Slow Button R - Pad 4	56.67	BLK	3.000
SIR5	Current Slow Button R - Pad 5	56.44	BLK	3.000
SIR6	Current Slow Button R - Pad 6	56.67	BLK	3.000
SIX1	Current Slow Button X - Pad 1	56.44	BLK	3.000
SIX2	Current Slow Button X - Pad 2	56.67	BLK	3.000
SIX3	Current Slow Button X - Pad 3	56.44	BLK	3.000
SIX4	Current Slow Button X - Pad 4	56.67	BLK	3.000
SIX5	Current Slow Button X - Pad 5	56.44	BLK	3.000
SIX6	Current Slow Button X - Pad 6	56.67	BLK	3.000
EMMR	Phasor Voltage - Real Part	56.44	NO	
EMMX	Phasor Voltage - Imaginary Part	56.44	NO	
PADV	Pad Voltage	53.90	BLK	0.250
ITMP	Instrument Temperature	53.90	BLK	0.000
CON1	Conductivity Pad 1	56.44	BLK	3.000
CON2	Conductivity Pad 2	56.67	BLK	3.000
CON3	Conductivity Pad 3	56.44	BLK	3.000
CON4	Conductivity Pad 4	56.67	BLK	3.000
CON5	Conductivity Pad 5	56.44	BLK	3.000
CON6	Conductivity Pad 6	56.67	BLK	3.000
UIR2	Current Button R No Delay - Pad 2	56.44	NO	
UIR4	Current Button R No Delay - Pad 4	56.44	NO	
UIR6	Current Button R No Delay - Pad 6	56.44	NO	
UIX2	Current Button X No Delay - Pad 2	56.44	NO	
UIX4	Current Button X No Delay - Pad 4	56.44	NO	
UIX6	Current Button X No Delay - Pad 6	56.44	NO	
TPUL	Tension Pull	56.67	NO	
ARM1	Caliper 1 measurement	56.44	BLK	0.000
ARM2	Caliper 2 measurement	56.44	BLK	0.000
ARM3	Caliper 3 measurement	56.44	BLK	0.000
ARM4	Caliper 4 measurement	56.44	BLK	0.000
ARM5	Caliper 5 measurement	56.44	BLK	0.000
ARM6	Caliper 6 measurement	56.44	BLK	0.000
MOTV	Motor Voltage Monitor 1	56.44	BLK	0.000
PRES	Caliper percentage of total compression of the spring	53.90	BLK	0.000
HAZI	Hole Azimuth	56.44	NO	
RB	Relative Bearing	56.44	NO	
AZI1	PAD1 Azimuth	56.44	NO	
DEVI	Inclination	56.44	NO	
Wavesonic-I				
TPUL	Tension Pull	31.33	NO	
DPSX	Dipole Source X StructureI	19.83	NO	
DPSY	Dipole Source Y StructureI	19.83	NO	
DPSM	Monopole Source Structure	19.83	NO	
WVST	Wavesonic Compressed Data	31.33	NO	
TPUL	Tension Pull	31.33	NO	
XMS1	Wave Sonic Status Word 1	19.83	NO	
XMS2	Wave Sonic Status Word 2	19.83	NO	
XMS1	Wave Sonic XMITStatus Word 1	19.83	NO	
XMS1	Wave Sonic XMITStatus Word 2	19.83	NO	
F1HA	Dipole 1 HV After	19.83	NO	
F1HB	Dipole 1 HV Before	19.83	NO	

F2HA	Dipole 2 HV After	19.83	NO
F2HB	Dipole 2 HV Before	19.83	NO
F3HA	Monopole HV After	19.83	NO
F3HB	Monopole HV Before	19.83	NO
INVT	Input Voltage	19.83	NO
5VOL	5 Volts	19.83	NO
MI5A	Minus 5 Volts Analog	19.83	NO
ITMP	Instrument Temperature	19.83	NO
PL5A	Plus 5 Volts Analog	19.83	NO
5VD	Plus 5 Volts Digital	19.83	NO
TCUR	Tool Current	19.83	NO
SUPV	Supply Voltage	19.83	NO
PRVT	Preregulated voltage	19.83	NO
PRVT	Pre-regulated voltage Xmter	19.83	NO
TEMP	Temperature	19.83	NO
ACQN	Acquisition Number	19.83	NO
XDP	Delay Reference	31.33	NO
MITM	MIT Mode	31.33	NO
VERS	Version	19.83	NO
D1CT	Dipole 1 Compressed Word Count	31.33	NO
D2CT	Dipole 2 Compressed Word Count	31.33	NO
MCNT	Monopole Compressed Word Count	31.33	NO
SEQN	Sequence Number	19.83	NO
FREV	Firmware Revision	19.83	NO
MSMP	Monopole Sample Rate	19.83	NO
MSMP	Dipole Sample Rate	19.83	NO
MFWF	Monopole Firing Waveform	19.83	NO
MFRQ	Monopole Frequency	19.83	NO
MDLY	Monopole Delay	19.83	NO
DXWF	Dipole X Firing Waveform	19.83	NO
XFRQ	Dipole X Frequency	19.83	NO
XDLY	Dipole X Delay	19.83	NO
DYWF	Dipole Y Firing Waveform	19.83	NO
YFRQ	Dipole Y Frequency	19.83	NO
YDLY	Dipole Y Delay	19.83	NO
DPSX	Dipole Source X StructureI	19.83	NO
DPSY	Dipole Source Y StructureI	19.83	NO
DPSM	Monopole Source Structure	19.83	NO
WVST	Wavesonic Compressed Data	31.33	NO
AUTM	Auto Mode	19.83	NO
SONM	tool mode for sonic - 0 for normal or 3 for calibration	19.83	NO
MSL	Monopole Lower Travel Time	31.33	NO
MSH	Monopole Upper Travel Time	31.33	NO
MLFC	Monopole-1 Lower Filter Bandpass Frequency Cut-off	19.83	NO
MUFC	Monopole-1 Upper Filter Bandpass Frequency Cut-off	19.83	NO
DLTT	Dipole Lower Travel Time	19.83	NO
DUTT	Dipole Upper Travel Time	19.83	NO
DLFC	Dipole Lower Filter Bandpass Frequency Cut-off	19.83	NO
DUFC	Dipole Upper Filter Bandpass Frequency Cut-off	19.83	NO
MUTE	WaveSonic Mute/Enable Channels and Sides map	19.83	NO
MUTS	Mute/Enable Sides	19.83	NO
WSRB	Relative Bearing	31.33	NO
WSAZ	WSX Azimuth Pad 1	31.33	NO
TPUL	Tension Pull	31.33	NO
WMP	Summed array of Monopole for SIDES - A,B,C,D	31.33	NO

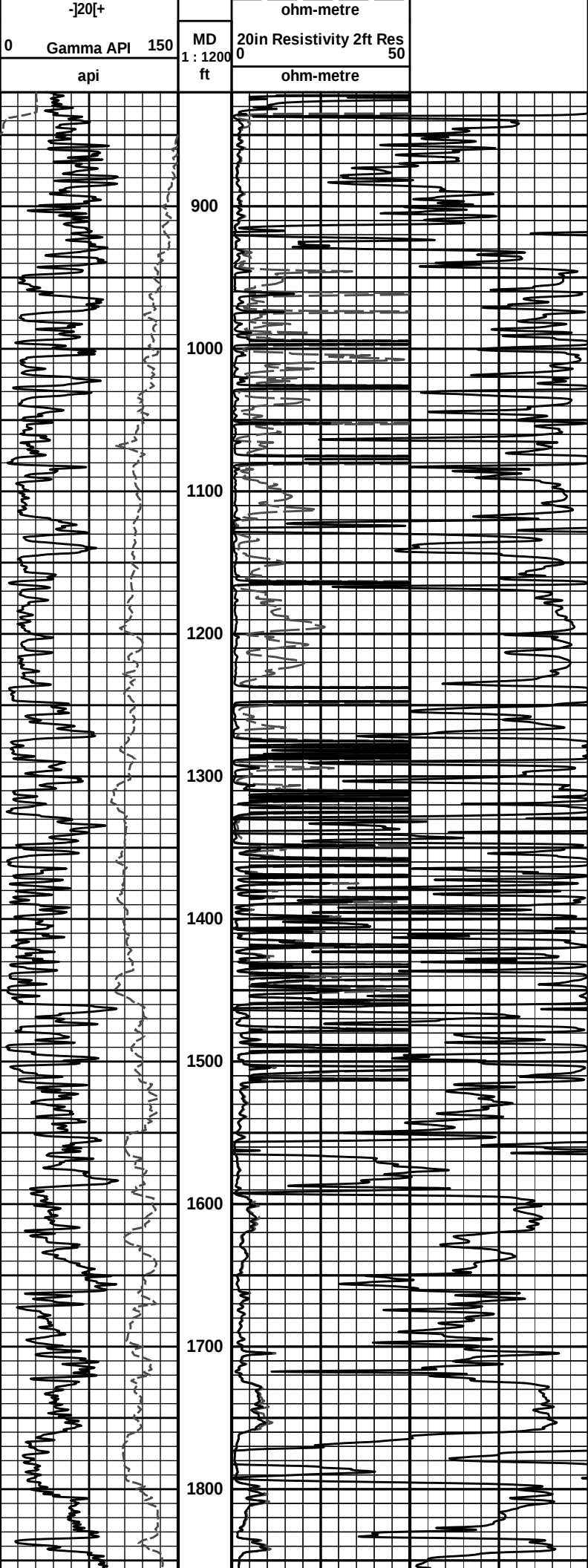
WXX	Dipole X for SIDES - A-C	31.33	NO
WYY	Dipole Y for SIDES - B-D	31.33	NO
WXY	Dipole X for SIDES - B-D	31.33	NO
WYX	Dipole Y for SIDES - A-C	31.33	NO
TPUL	Tension Pull	31.33	NO
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO
GAR1	Gain Side A Receiver 1	19.83	NO
GAR2	Gain Side A Receiver 2	19.83	NO
GAR3	Gain Side A Receiver 3	19.83	NO
GAR4	Gain Side A Receiver 4	19.83	NO
GAR5	Gain Side A Receiver 5	19.83	NO
GAR6	Gain Side A Receiver 6	19.83	NO
GAR7	Gain Side A Receiver 7	19.83	NO
GAR8	Gain Side A Receiver 8	19.83	NO
GBR1	Gain Side B Receiver 1	19.83	NO
GBR2	Gain Side B Receiver 2	19.83	NO
GBR3	Gain Side B Receiver 3	19.83	NO
GBR4	Gain Side B Receiver 4	19.83	NO
GBR5	Gain Side B Receiver 5	19.83	NO
GBR6	Gain Side B Receiver 6	19.83	NO
GBR7	Gain Side B Receiver 7	19.83	NO
GBR8	Gain Side B Receiver 8	19.83	NO
GCR1	Gain Side C Receiver 1	19.83	NO
GCR2	Gain Side C Receiver 2	19.83	NO
GCR3	Gain Side C Receiver 3	19.83	NO
GCR4	Gain Side C Receiver 4	19.83	NO
GCR5	Gain Side C Receiver 5	19.83	NO
GCR6	Gain Side C Receiver 6	19.83	NO
GCR7	Gain Side C Receiver 7	19.83	NO
GCR8	Gain Side C Receiver 8	19.83	NO
GDR1	Gain Side D Receiver 1	19.83	NO
GDR2	Gain Side D Receiver 2	19.83	NO
GDR3	Gain Side D Receiver 3	19.83	NO
GDR4	Gain Side D Receiver 4	19.83	NO
GDR5	Gain Side D Receiver 5	19.83	NO
GDR6	Gain Side D Receiver 6	19.83	NO
GDR7	Gain Side D Receiver 7	19.83	NO
GDR8	Gain Side D Receiver 8	19.83	NO

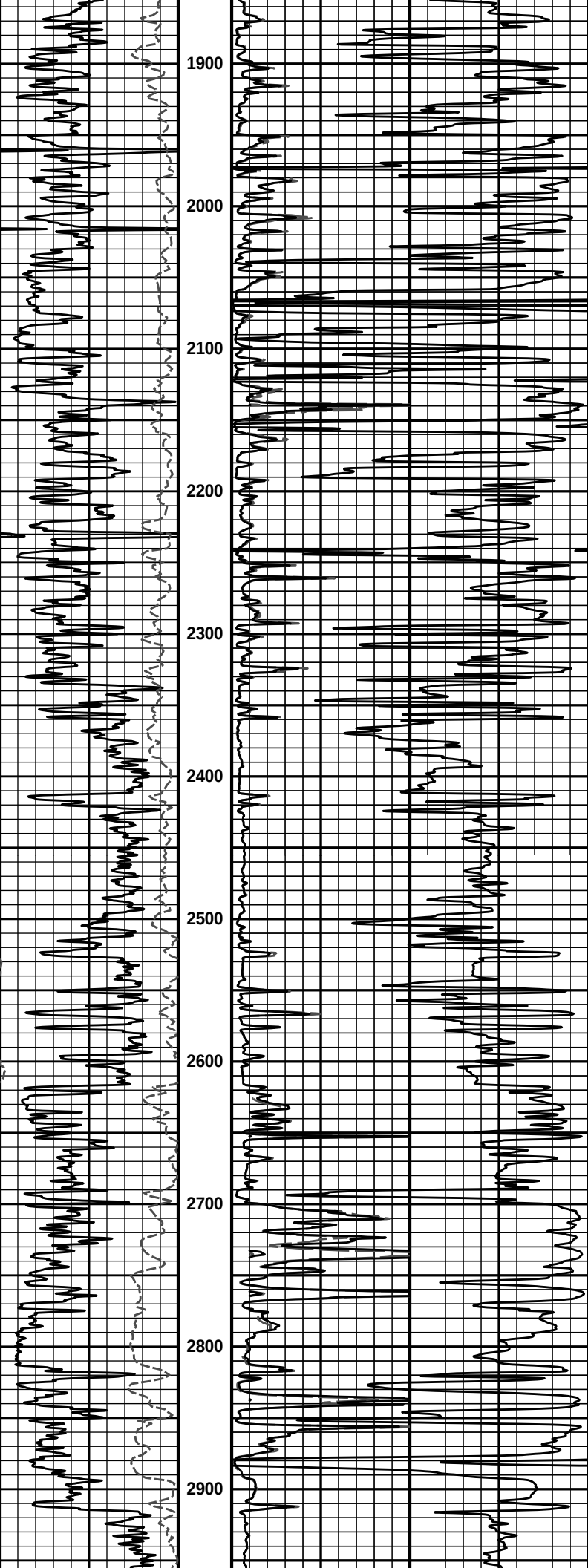
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	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	
SPLT Rod				

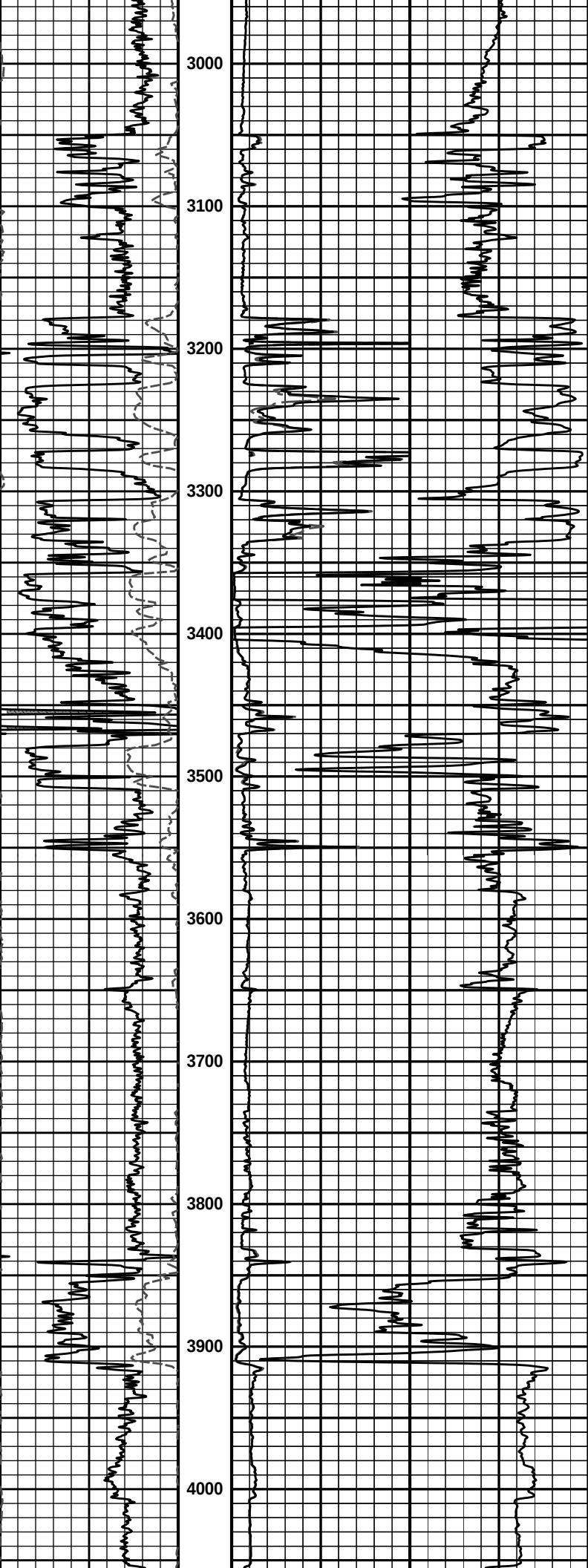
SDLT Pad				
TPUL	Tension Pull	87.84	NO	
NAB	Near Above	87.66	BLK	0.920
NHI	Near Cesium High	87.66	BLK	0.920
NLO	Near Cesium Low	87.66	BLK	0.920
NVA	Near Valley	87.66	BLK	0.920
NBA	Near Barite	87.66	BLK	0.920
NDE	Near Density	87.66	BLK	0.920
NPK	Near Peak	87.66	BLK	0.920
NLI	Near Lithology	87.66	BLK	0.920
NBAU	Near Barite Unfiltered	87.66	BLK	0.250
NLIU	Near Lithology Unfiltered	87.66	BLK	0.250
FAB	Far Above	88.01	BLK	0.250
FHI	Far Cesium High	88.01	BLK	0.250
FLO	Far Cesium Low	88.01	BLK	0.250
FVA	Far Valley	88.01	BLK	0.250
FBA	Far Barite	88.01	BLK	0.250
FDE	Far Density	88.01	BLK	0.250
FPK	Far Peak	88.01	BLK	0.250
FLI	Far Lithology	88.01	BLK	0.250
PTMP	Pad Temperature	87.85	BLK	0.920
NHV	Near Detector High Voltage	87.24	NO	
FHV	Far Detector High Voltage	87.24	NO	
ITMP	Instrument Temperature	87.24	NO	
DDHV	Detector High Voltage	87.24	NO	
Microlog Pad				
TPUL	Tension Pull	88.03	NO	
MINV	Microlog Lateral	88.03	BLK	0.750
MNOR	Microlog Normal	88.03	BLK	0.750
Data: NANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH\IDLE			Date: 19-Jul-13 17:07:56	

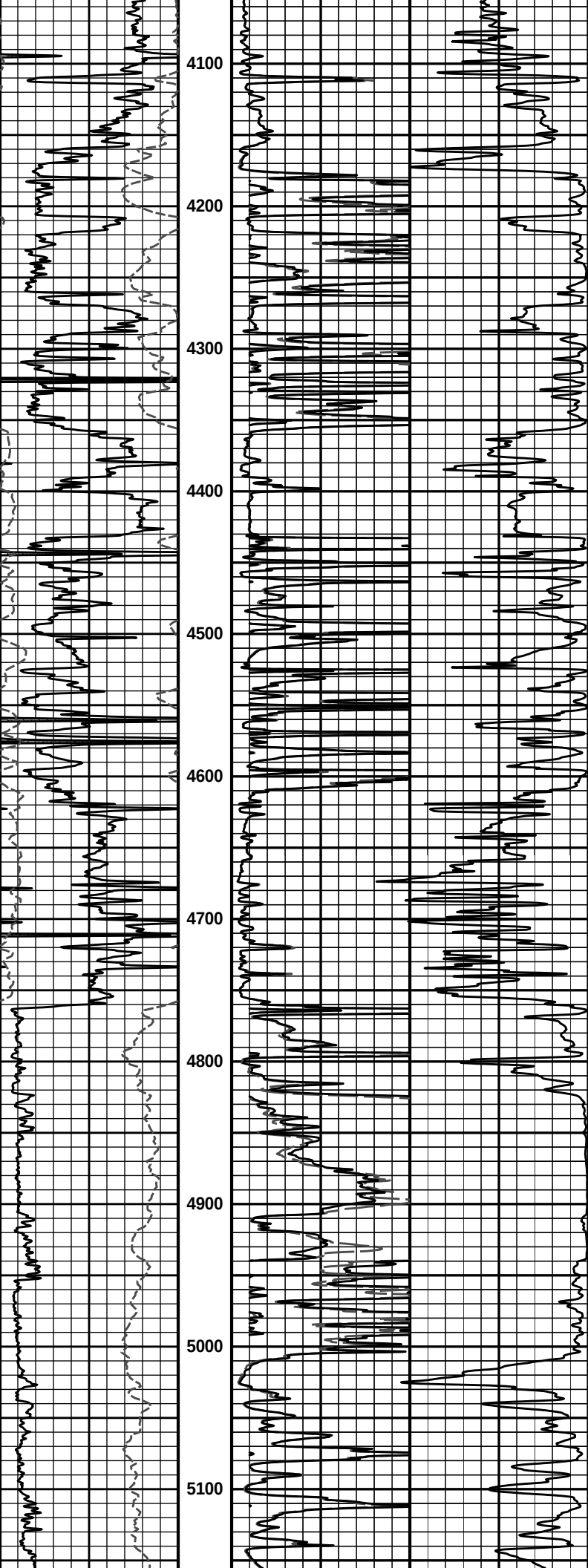
COMPANY	SANDRIDGE ENERGY		
WELL	NANCY 3507 1-10		
FIELD	WALDRON		
COUNTY	HARPER	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	

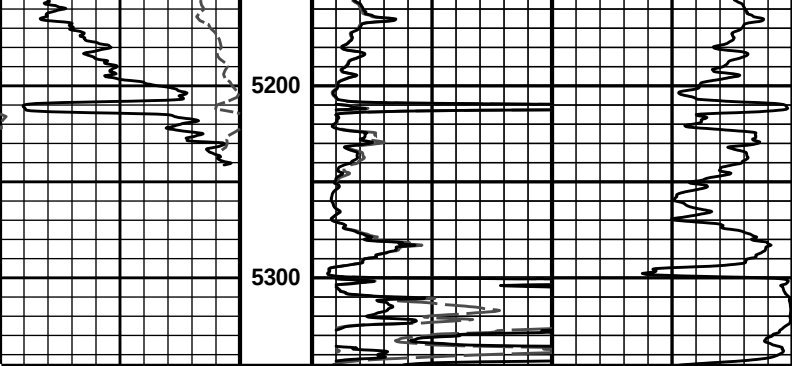
HALLIBURTON Plot Time: 19-Jul-13 23:14:29 Plot Range: 820 ft to 5345.5 ft Data: NANCY_3507_1-10\Well Based\CASING\ Plot File: \\LOCAL-INANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CH... \ACRT_1.lib			
1 INCH MAIN LOG			
		1000	90in Conductivity 2ft Res 0
		mmho per metre	
SP		90in Resistivity 2ft Res 0	50











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

HALLIBURTON
Plot Time: 19-Jul-13 23:14:34
Plot Range: 820 ft to 5345.5 ft
Data: NANCY_3507_1-10\Well Based\CASING\
Plot File: \\LOCAL-INANCY_3507_1-10\0001 SP-GTET-CSNG-DSN-SDL-FLEX-XRMI-WAVE-ACRT-CHL...ACRT_1.lib

1 INCH MAIN LOG