

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY					VAL ENERGY INC.				
WELL					THOM C 3-12				
FIELD					UNKNOWN				
COUNTY					BARBER				
STATE					KANSAS				
Permanent Datum					GL				
Log measured from					KB				
Drilling measured from					KB				
Date					11-May-12				
Run No.					ONE				
Depth - Driller					4750.00 ft				
Depth - Logger					4748.0 ft				
Bottom - Logged Interval					4738.0 ft				
Top - Logged Interval					224.0 ft				
Casing - Driller					8.625 in @ 223.0 ft				
Casing - Logger					224.0 ft				
Bit Size					7.875 in				
Type Fluid in Hole					WATER				
Density					9.0 ppg				
PH					11.50 pH				
Source of Sample					FLOWLINE				
Rm @ Meas. Temperature					0.460 ohmm @ 75.00 degF				
Rmf @ Meas. Temperature					0.35 ohmm @ 75.00 degF				
Rmc @ Meas. Temperature					0.590 ohmm @ 75.00 degF				
Source Rmf					MEAS				
Rm @ BHT					0.29 ohmm @ 123.0 degF				
Time Since Circulation					5.0 hr				
Time on Bottom					11-May-12 13:18				
Max. Rec. Temperature					115.0 degF @ 4748.0 ft				
Equipment					336				
Recorded By					J. BOLLOW				
Witnessed By					S. VANBUSKIRK				

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Service Ticket No.: 9504178					API Serial No.: 15-007-23871					PGM Version: WL INSITE R3.4.2 (Build 2)					
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.		@			@				I095S908						
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.	11021039			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			

[illegible]**HALLIBURTON**

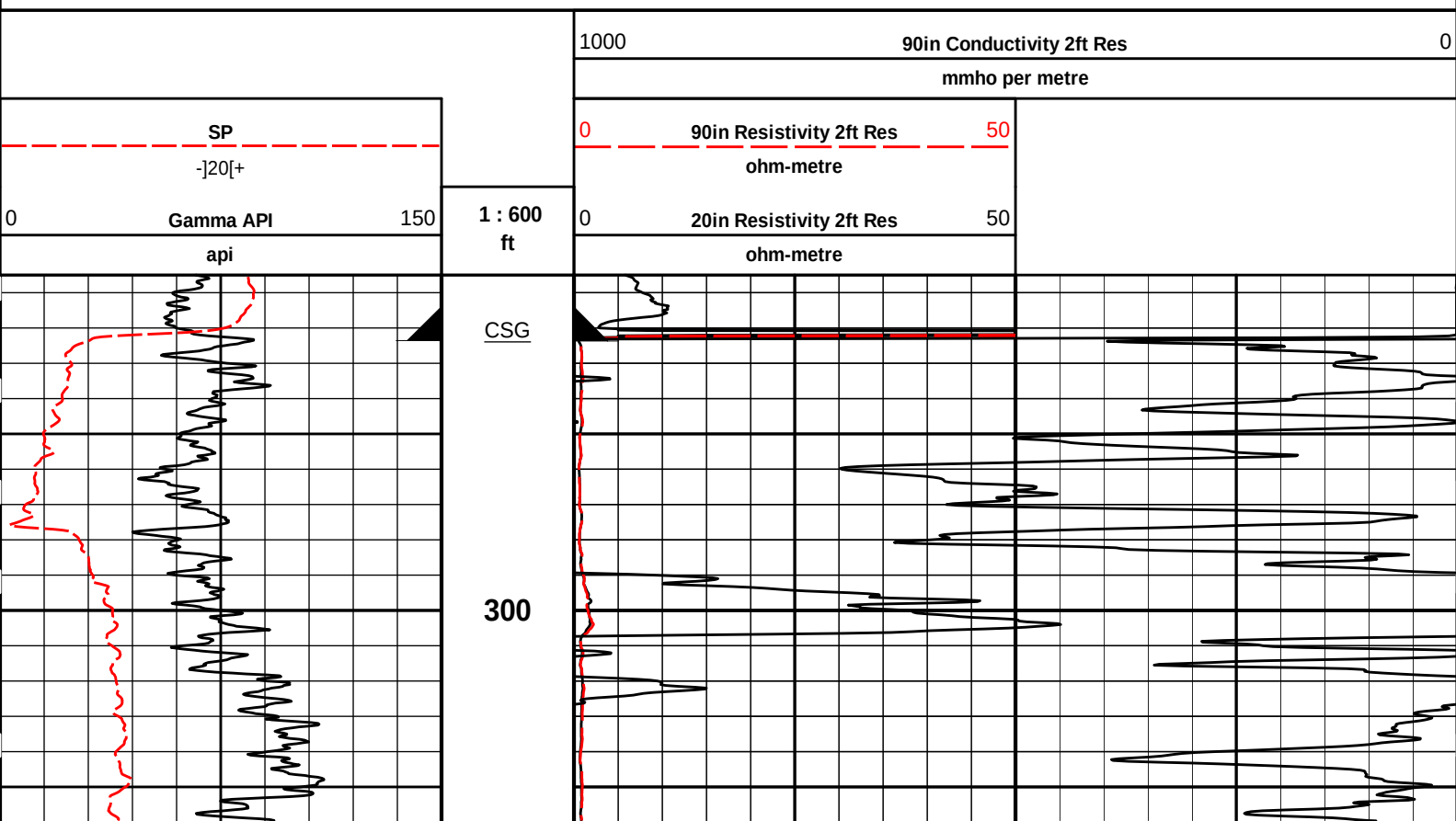
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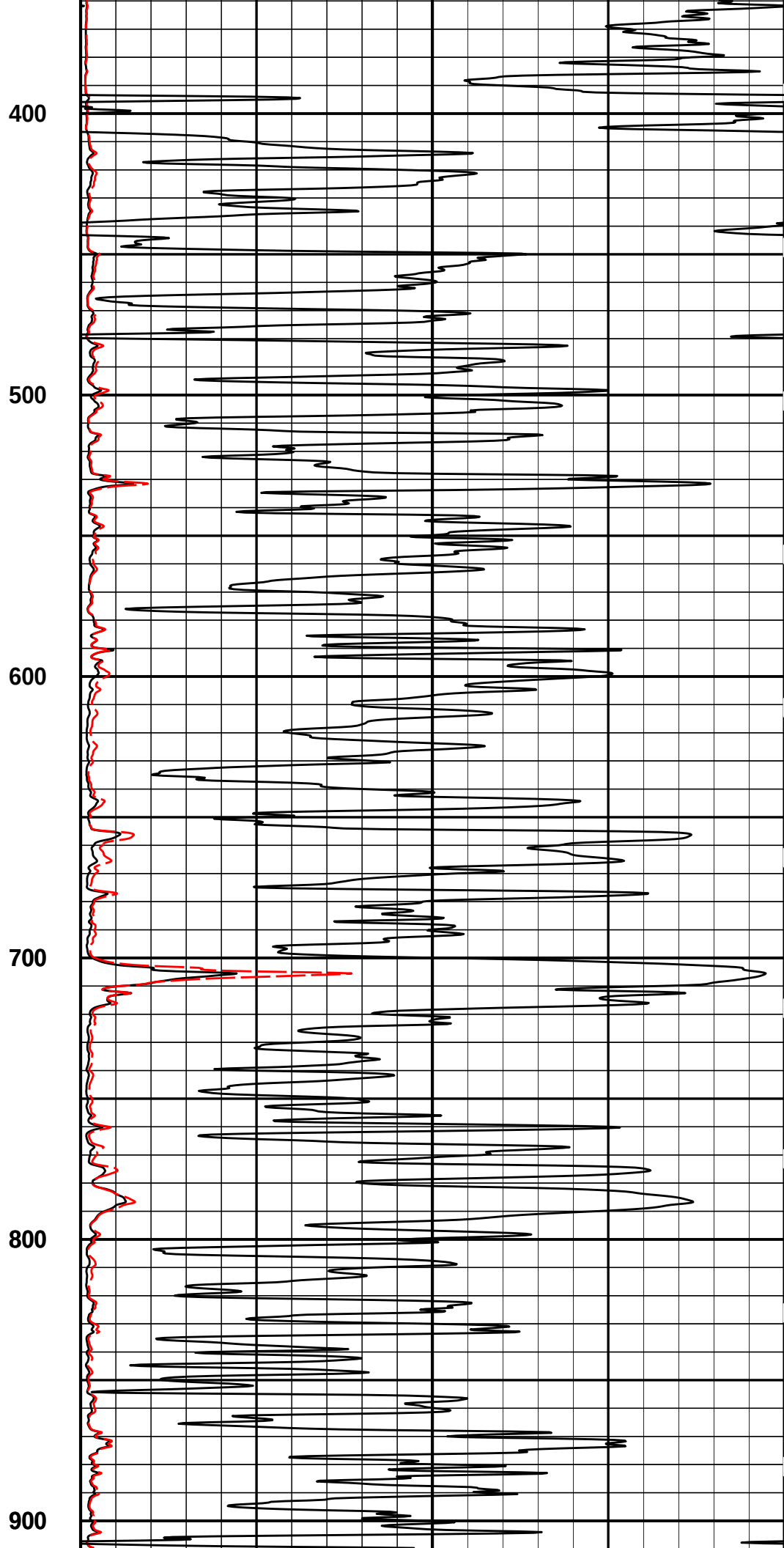
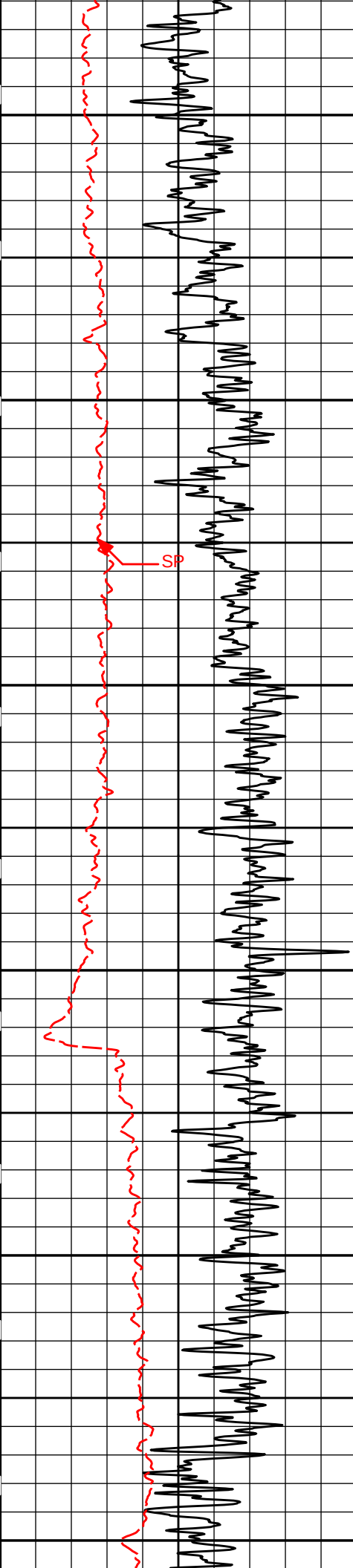
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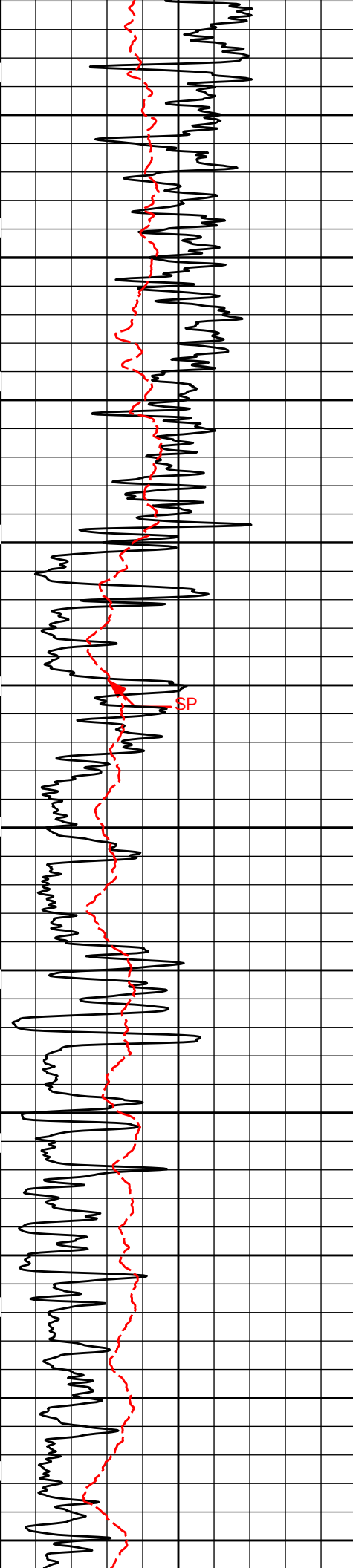
Data: THOM C 3 12\Well Based\CASING\

Plot File: \\-LOCAL-\\THOM C 3 12\\0001 GTET-DSNT-SDLT-ACRT\\ACRT\\ACRT 2 lib

2 INCH MAIN LOG







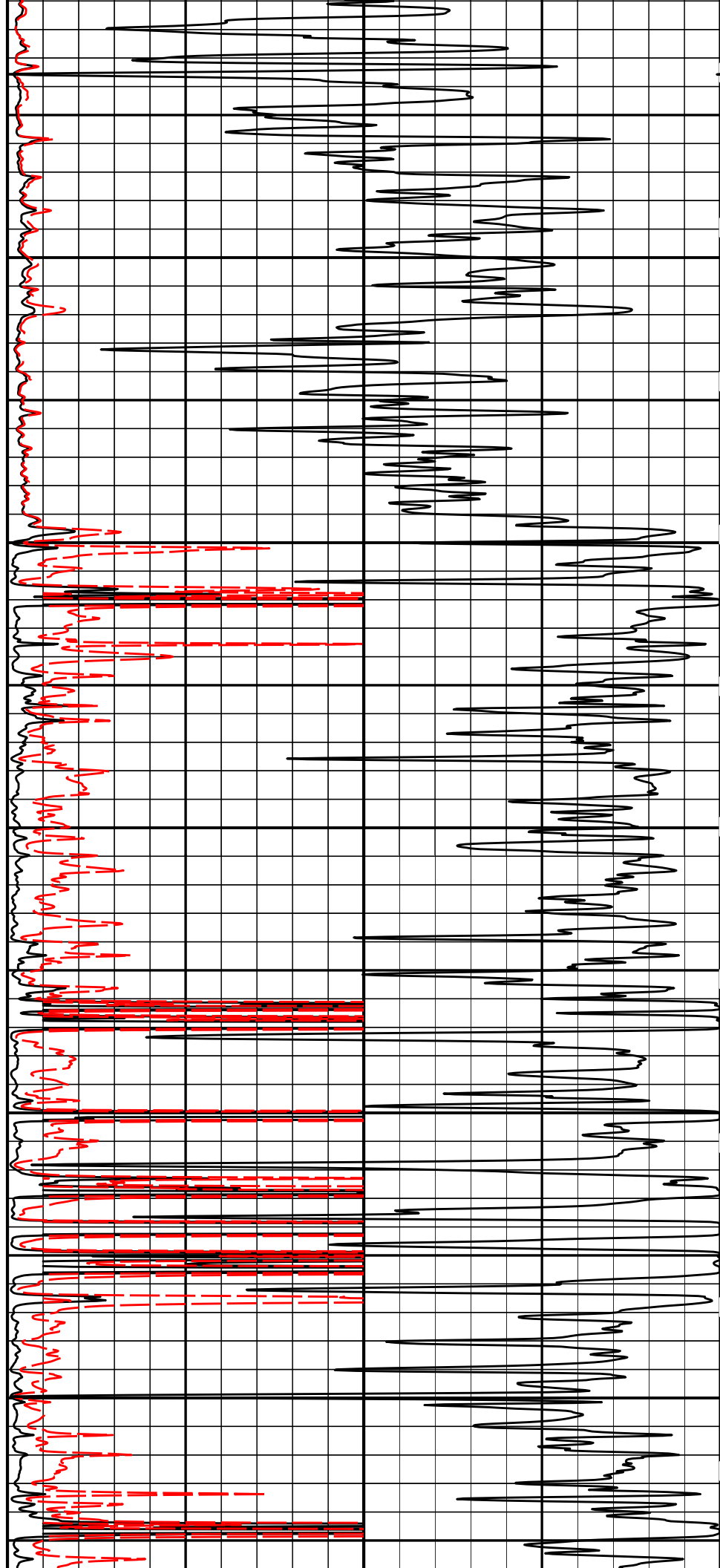
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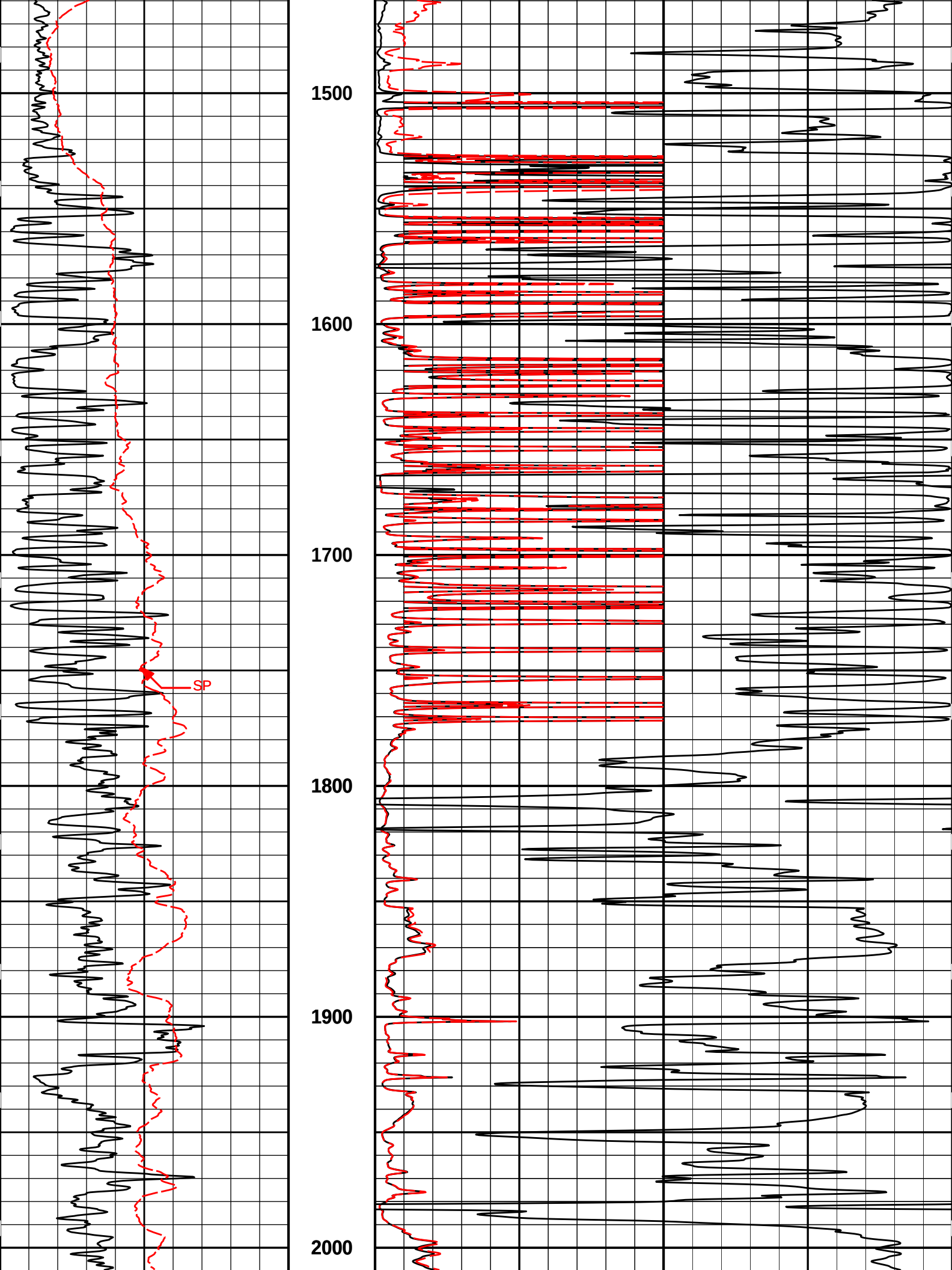
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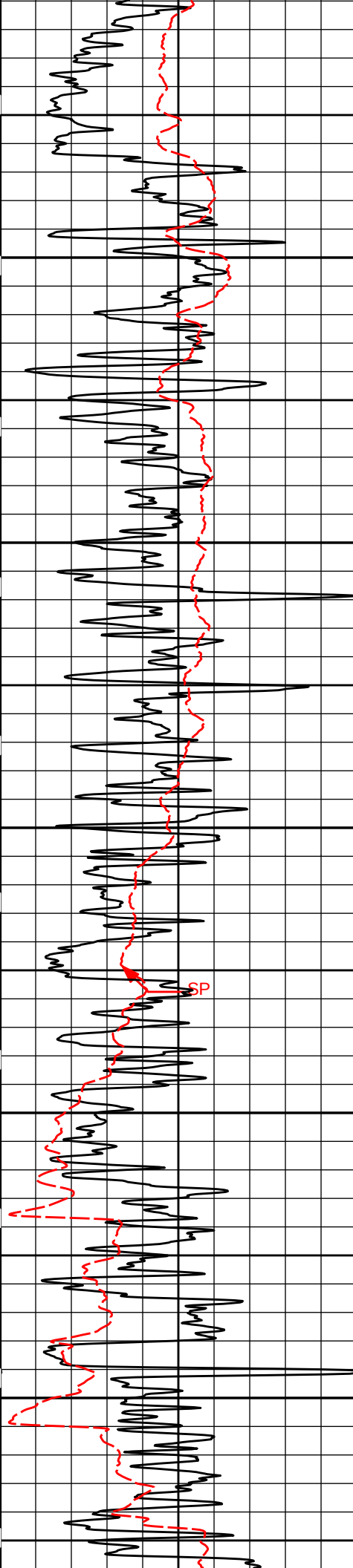
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1300

1400







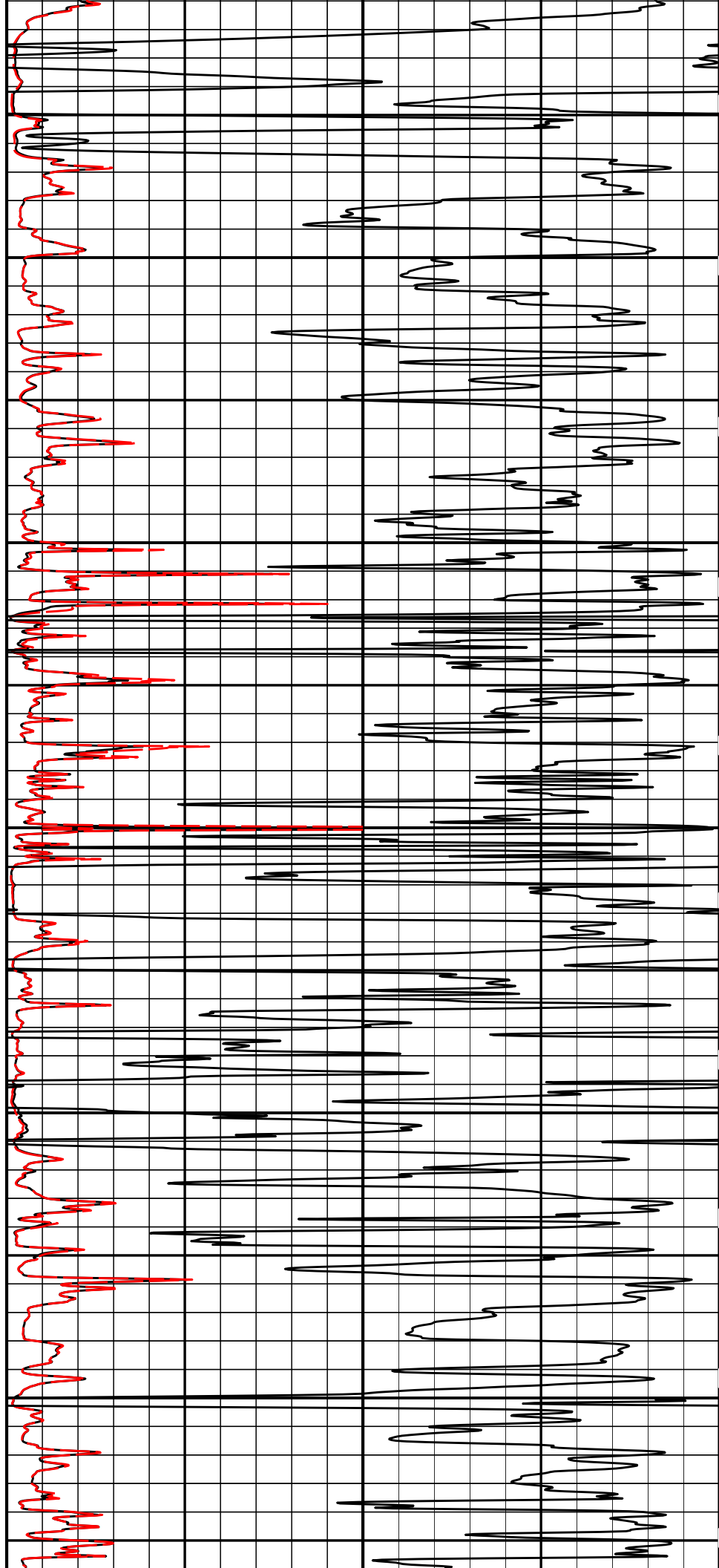
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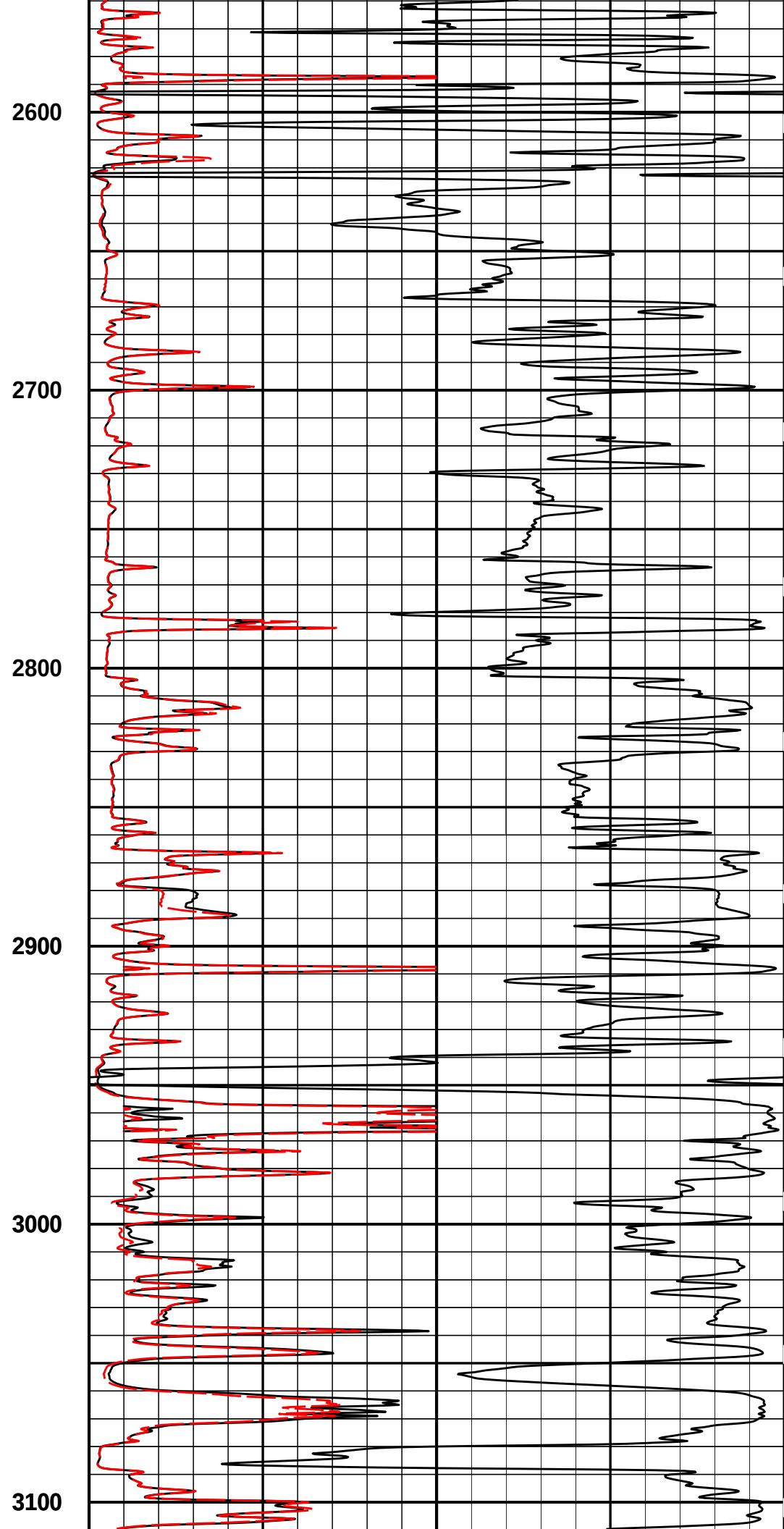
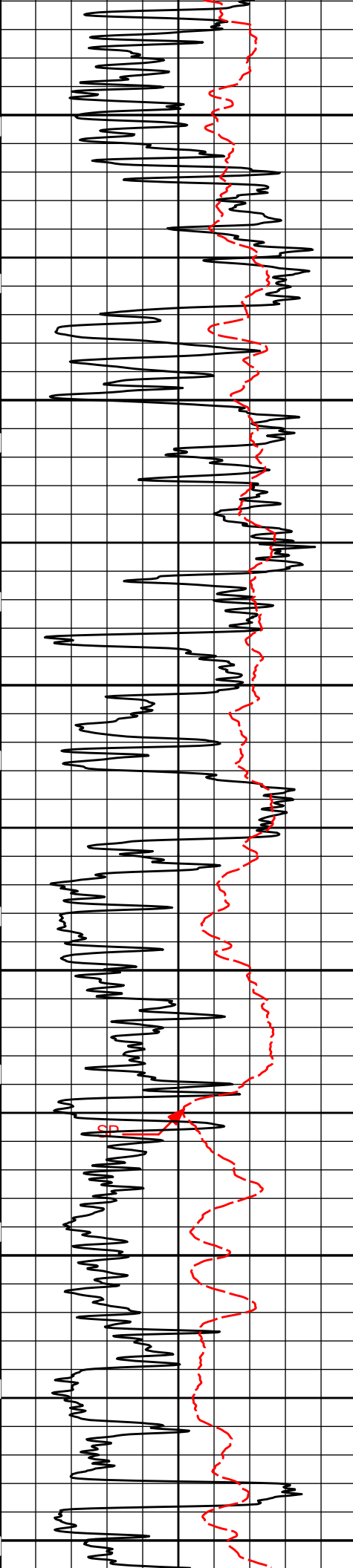
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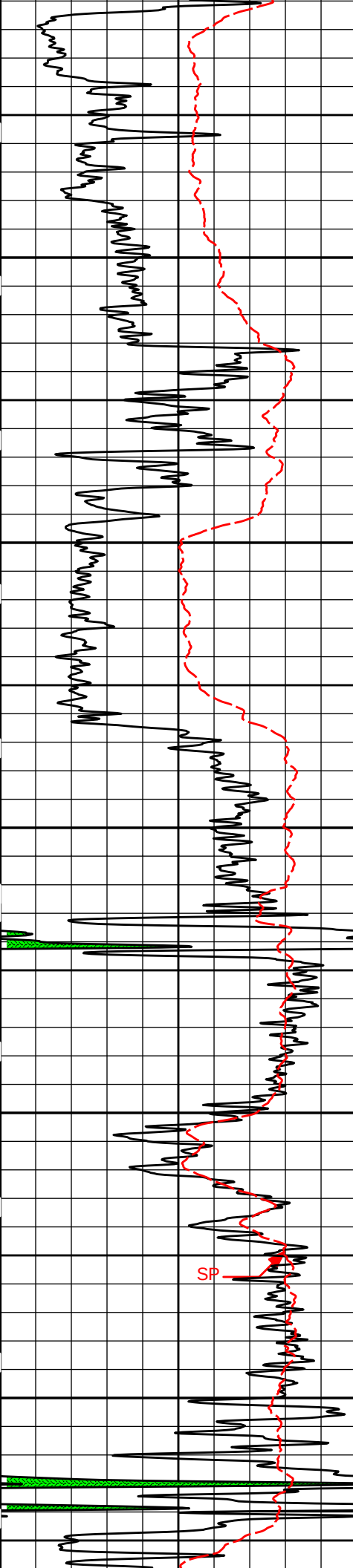
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3200

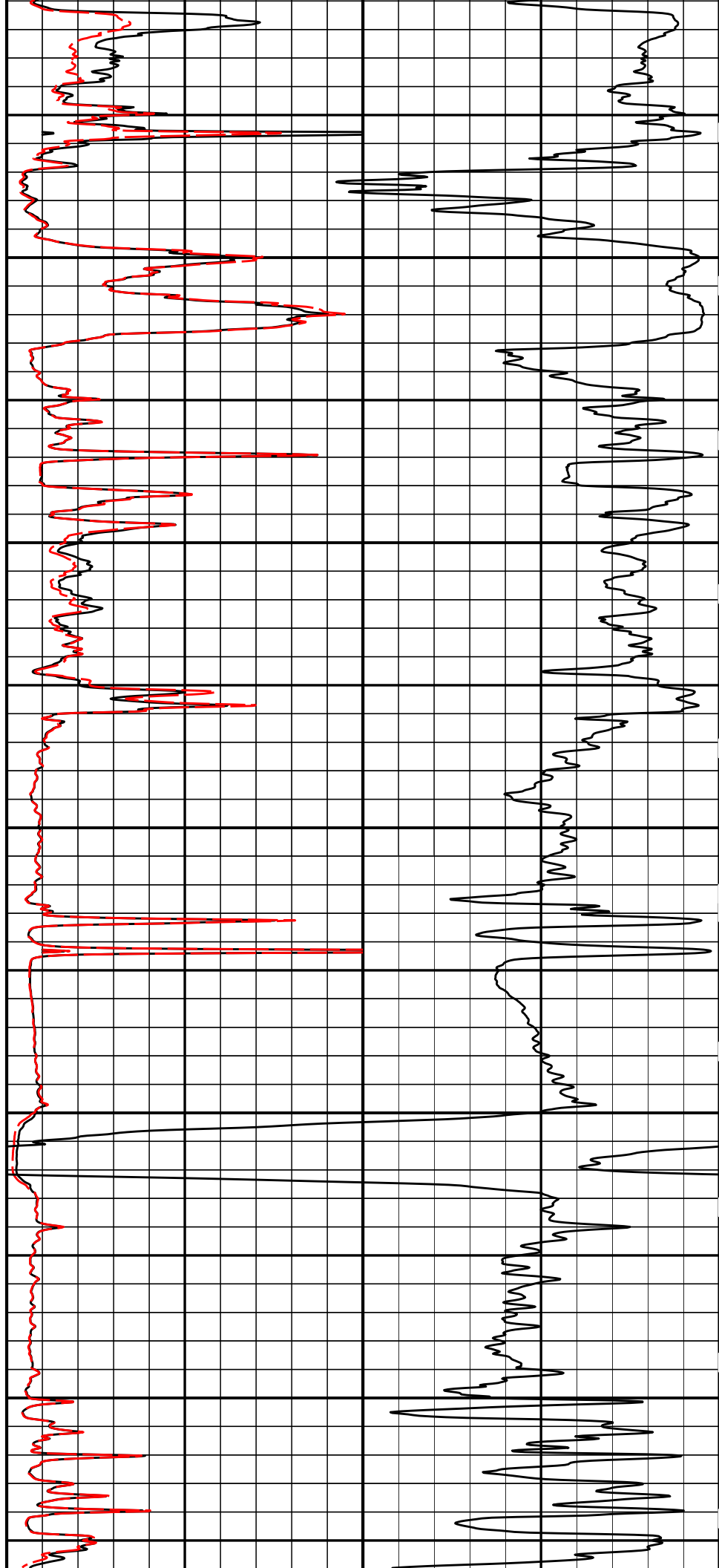
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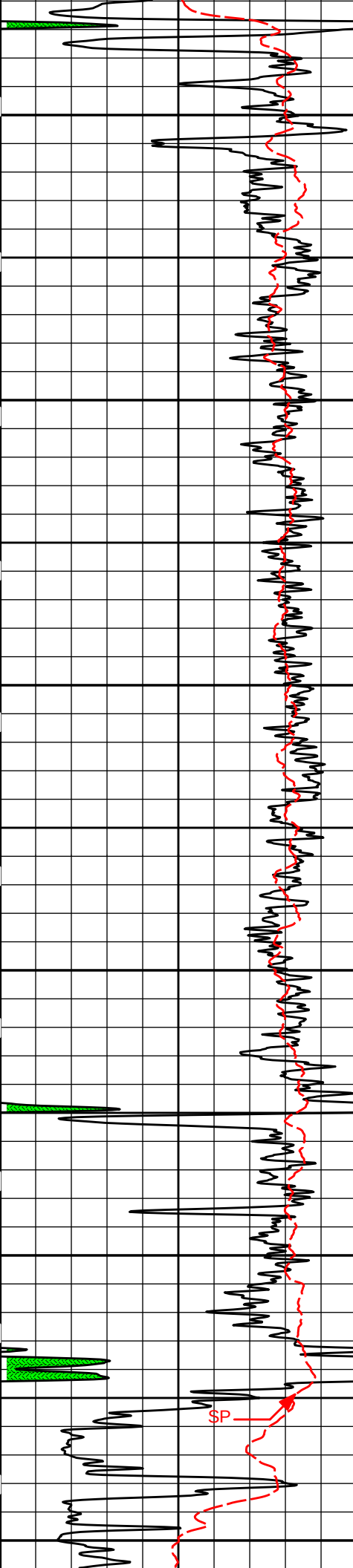
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3500

3600

SP





3700

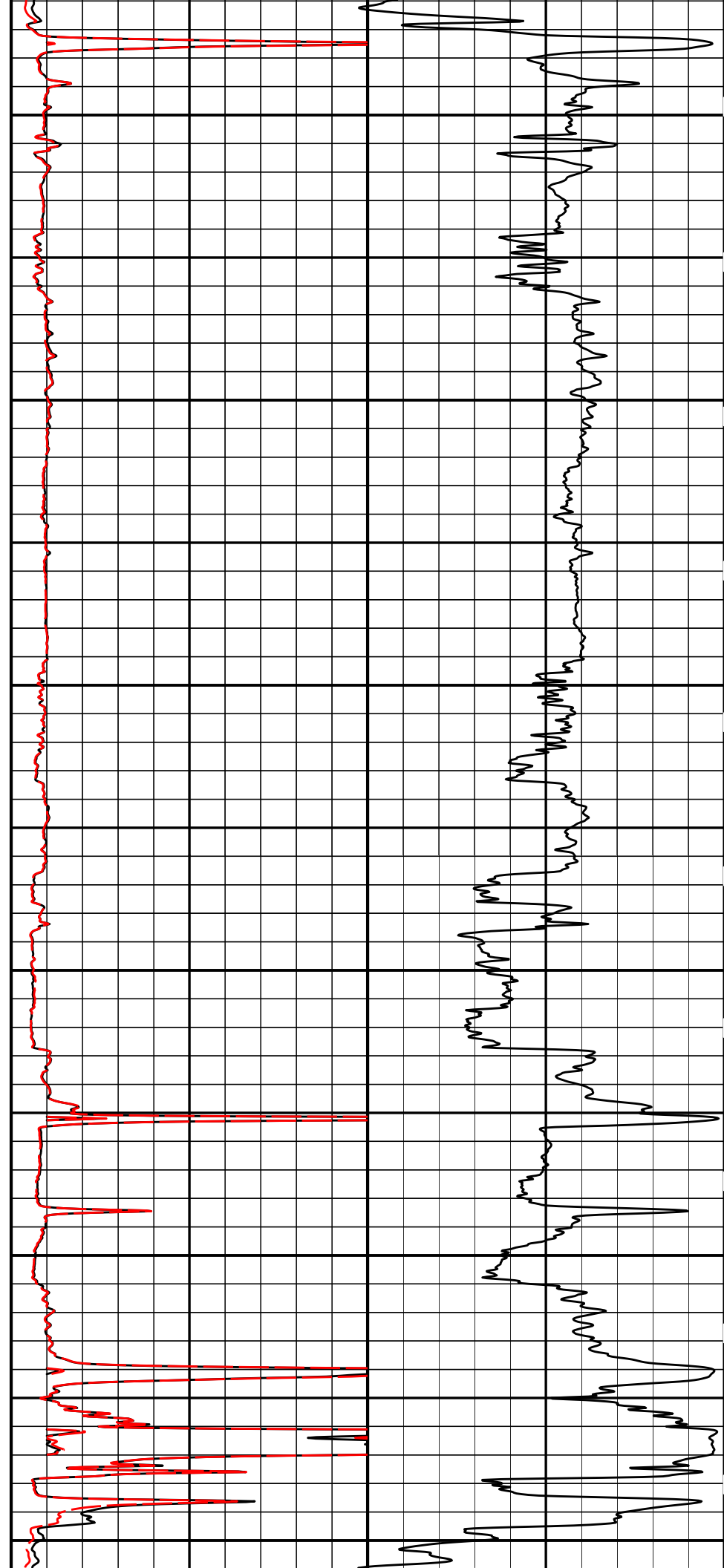
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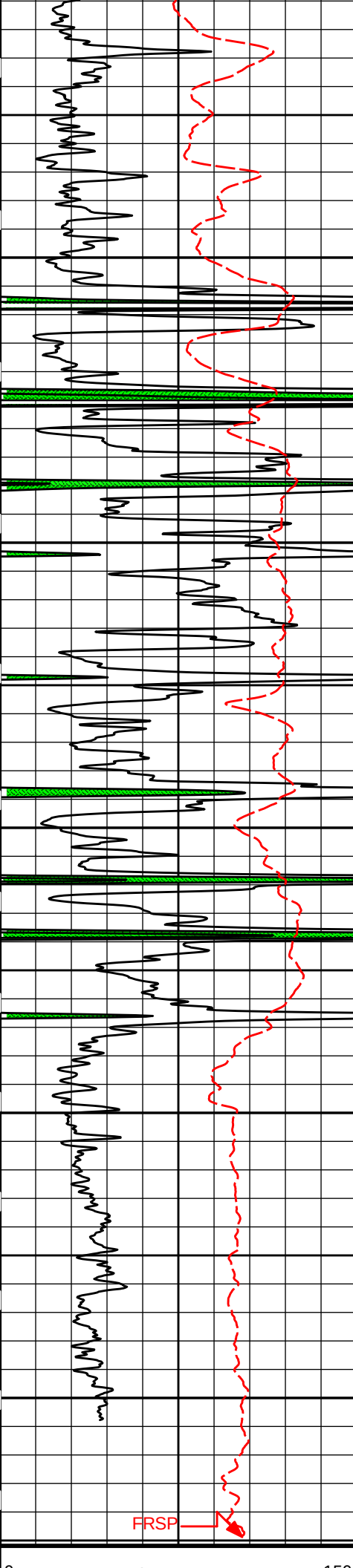
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4000

4100

4200





4300

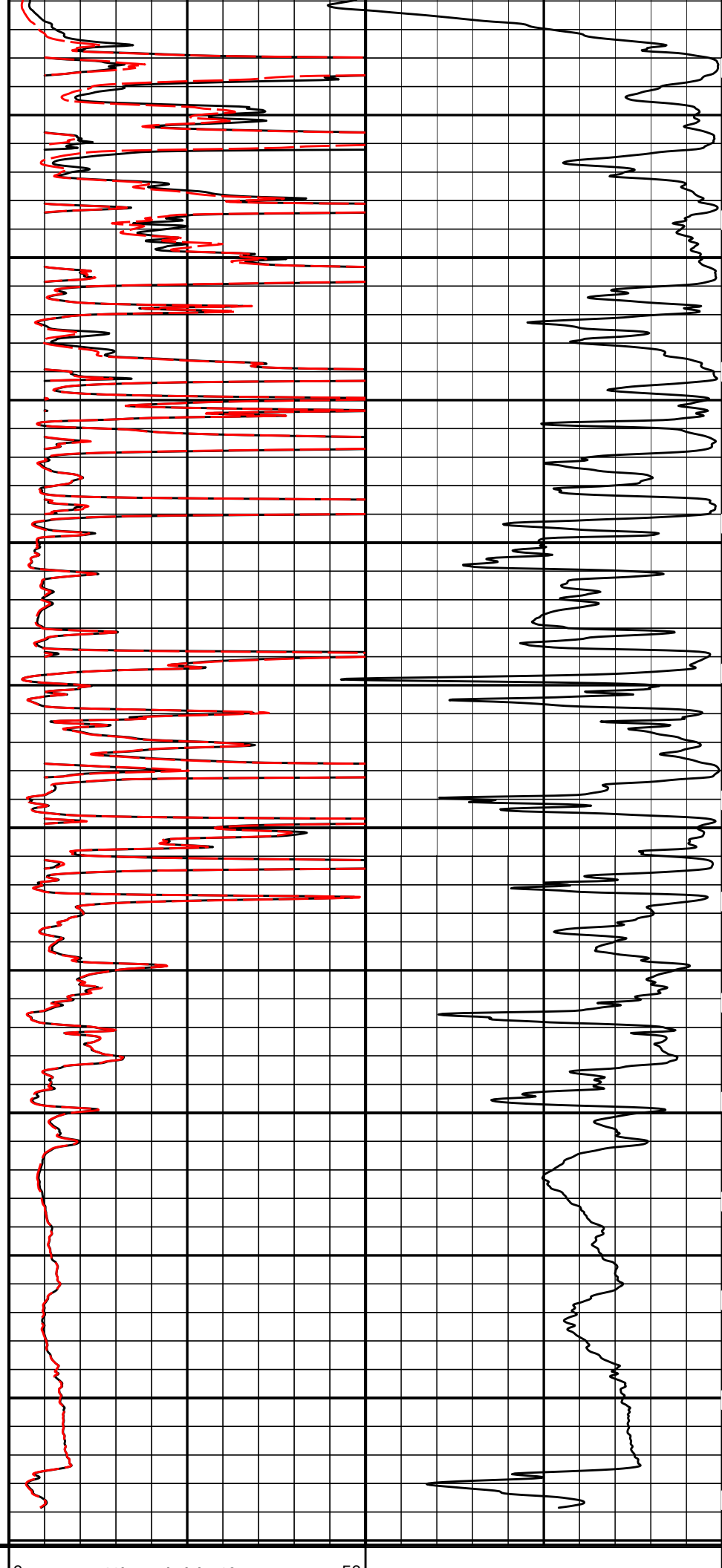
4400

4500

4600

4700

TD



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

HALLIBURTON

Plot Time: 11-May-12 15:34:11
Plot Range: 205 ft to 4751.5 ft
Data: THOM_C_3_12\Well Based\CASING\
Plot File: \\-LOCAL-\\THOM_C_3_12\\0001 GTET-DSNT-SDLT-ACRT\\ACRT\\ACRT_2.lib

2 INCH MAIN LOG

HALLIBURTON

Plot Time: 11-May-12 15:34:12
Plot Range: 205 ft to 4751.5 ft
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Plot File: \\-LOCAL-\THOM_C_3_12\0001 GTET-DSNT-SDLT-ACRT\ACRT\ACRT_5_main.lib

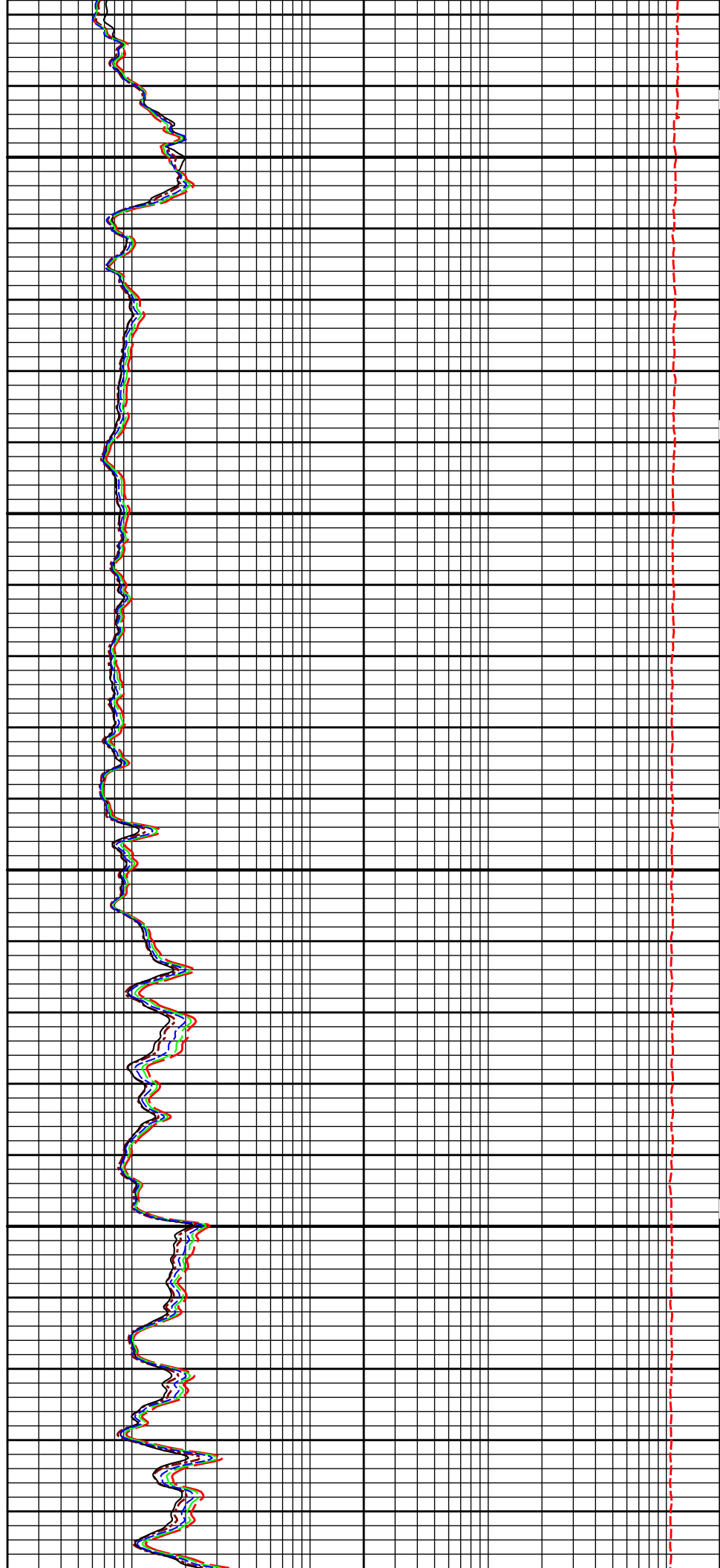
5 INCH MAIN LOG

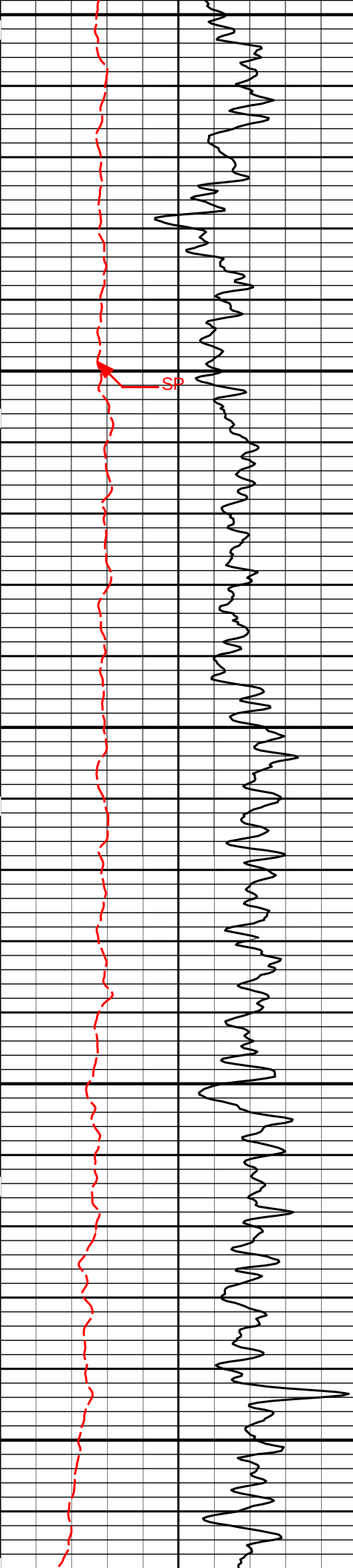
		0.2	90in Resistivity 2ft Res		2000
			ohmm		
		0.2	60in Resistivity 2ft Res		2000
			ohmm		
		0.2	30in Resistivity 2ft Res		2000
			ohm-metre		
SHALE		0.2	20in Resistivity 2ft Res		2000
Tension Pull			ohmm		
0	Gamma API	150	0.2	10in Resistivity 2ft Res	
	api			ohmm	
	SP			Tension	
	- 20 +			pounds	
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



300

400

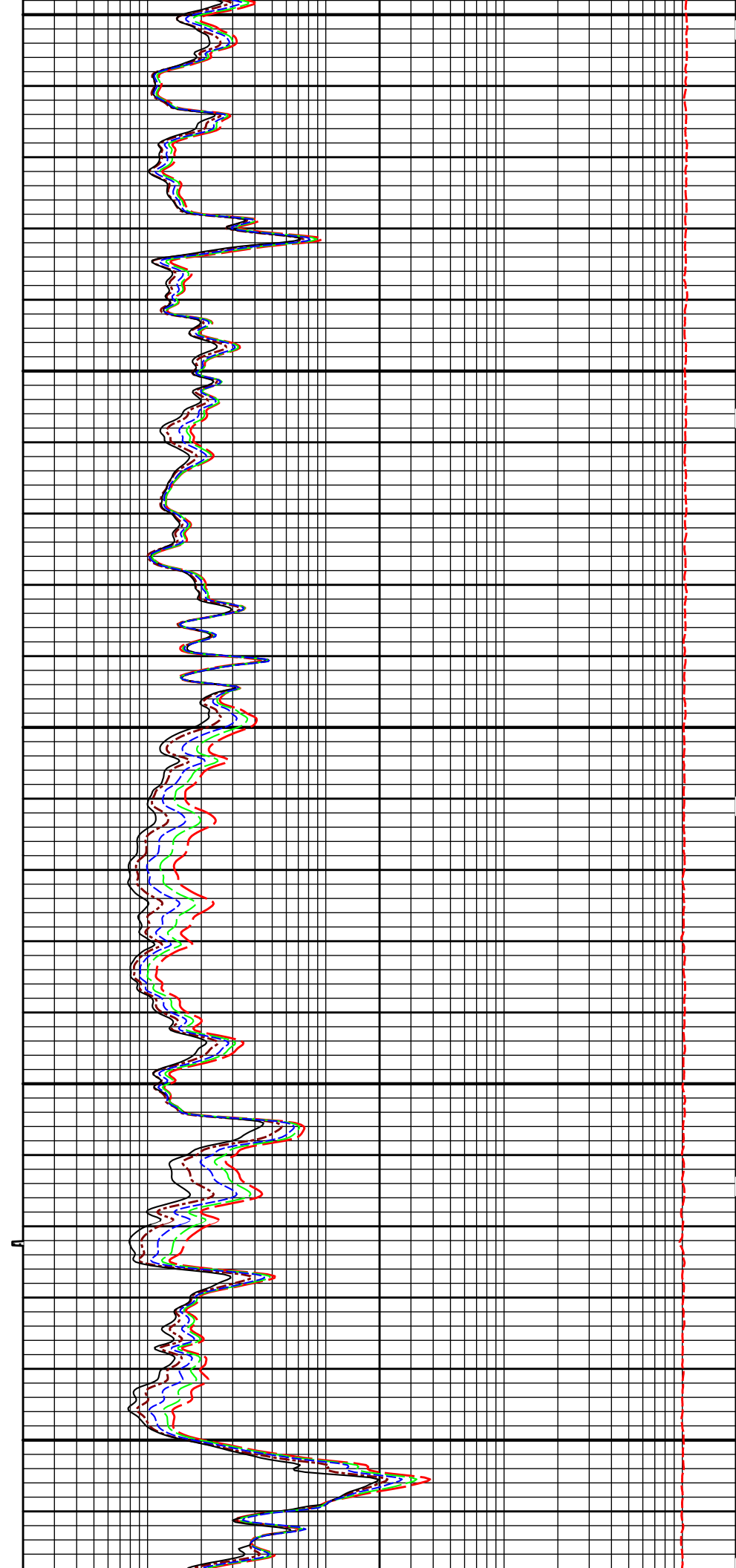


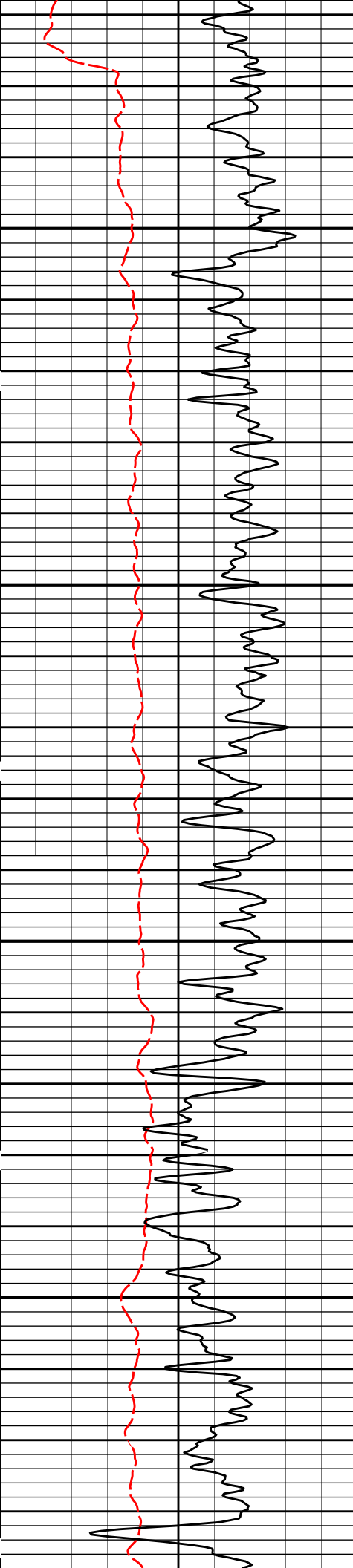


500

600

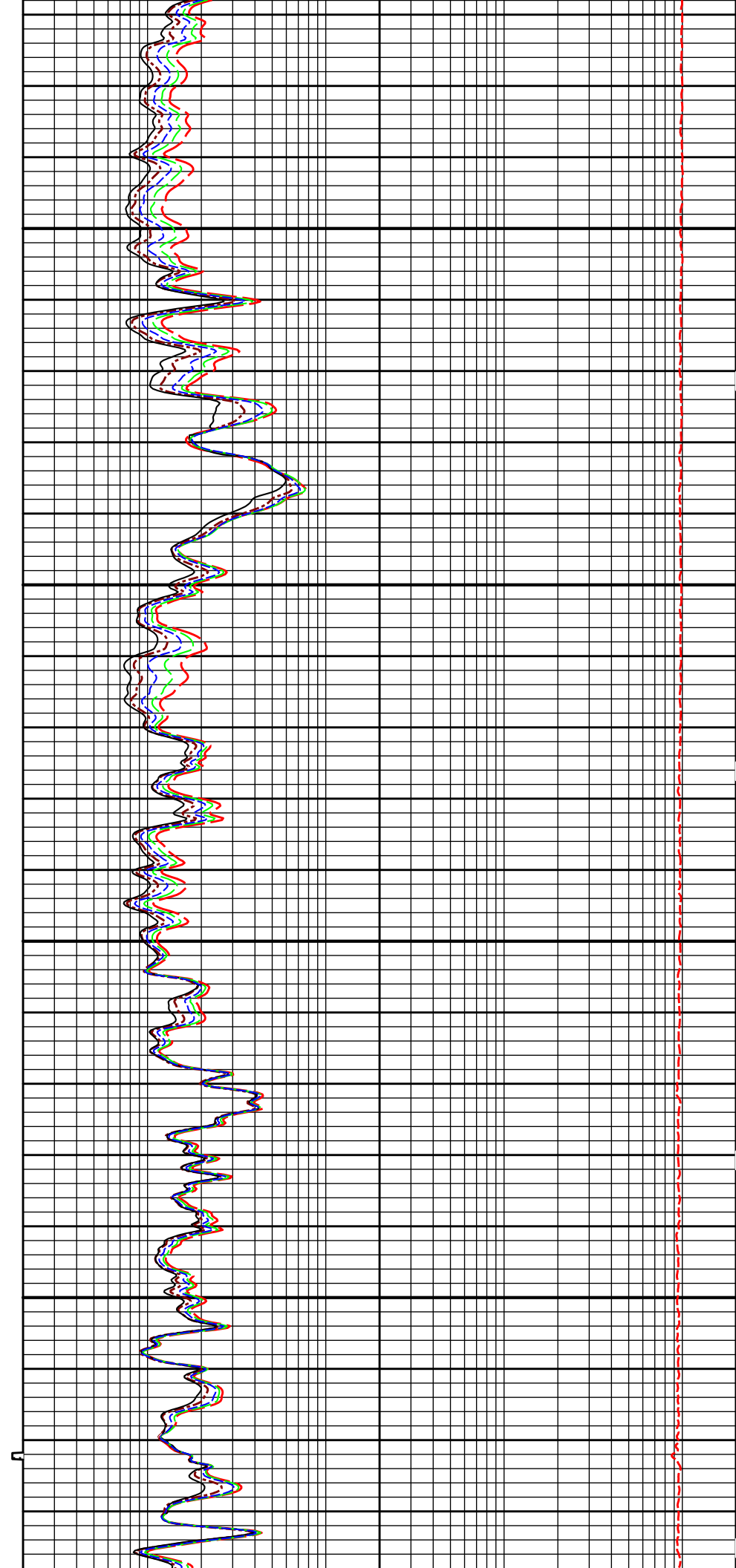
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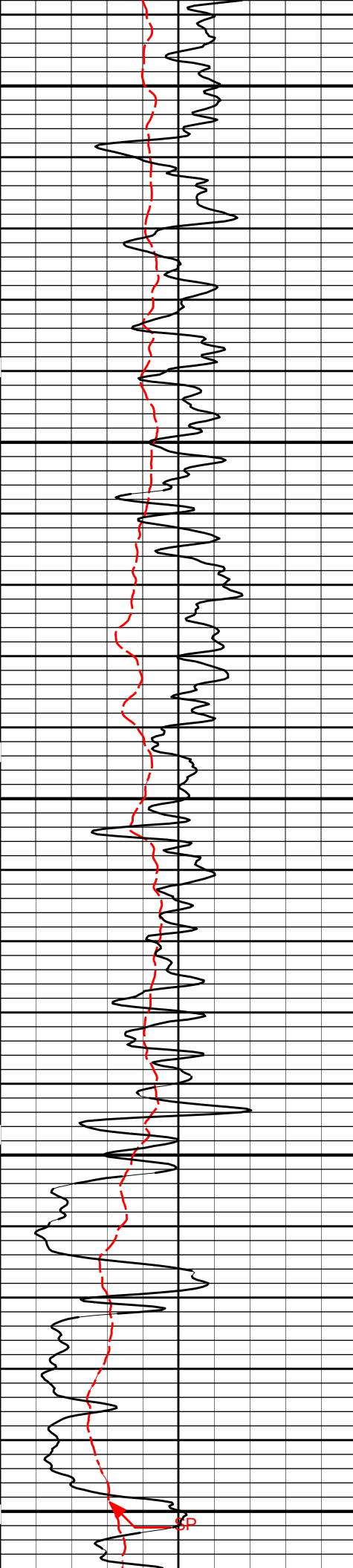




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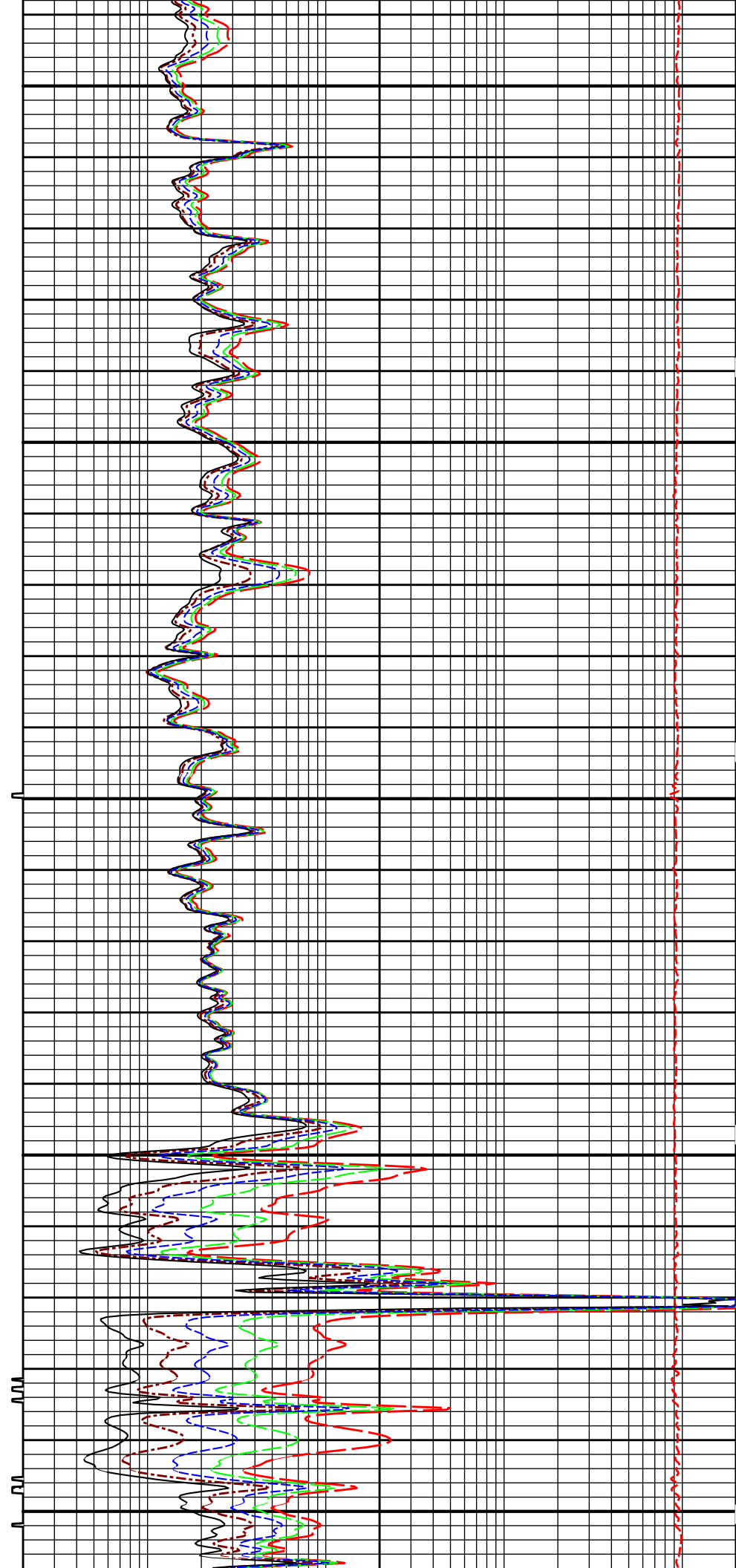
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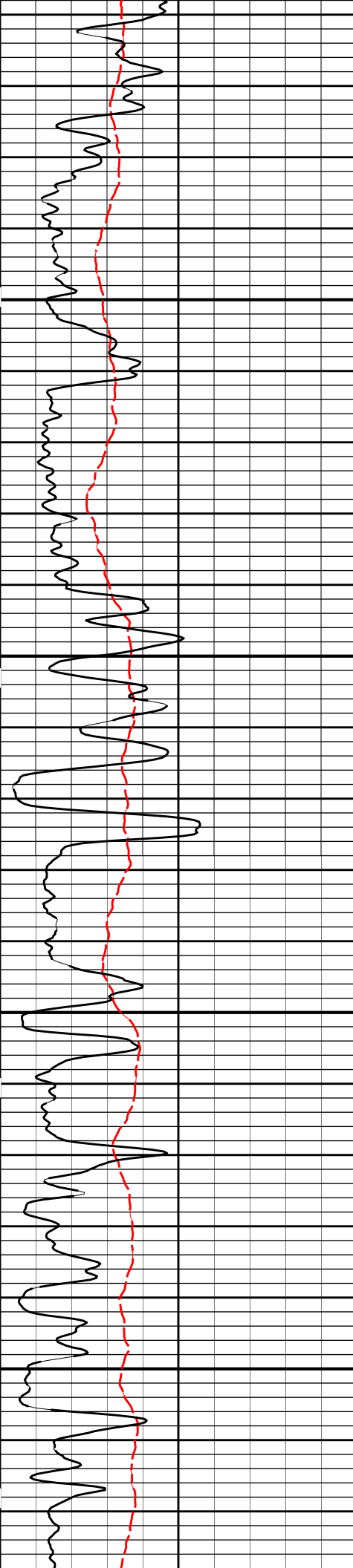




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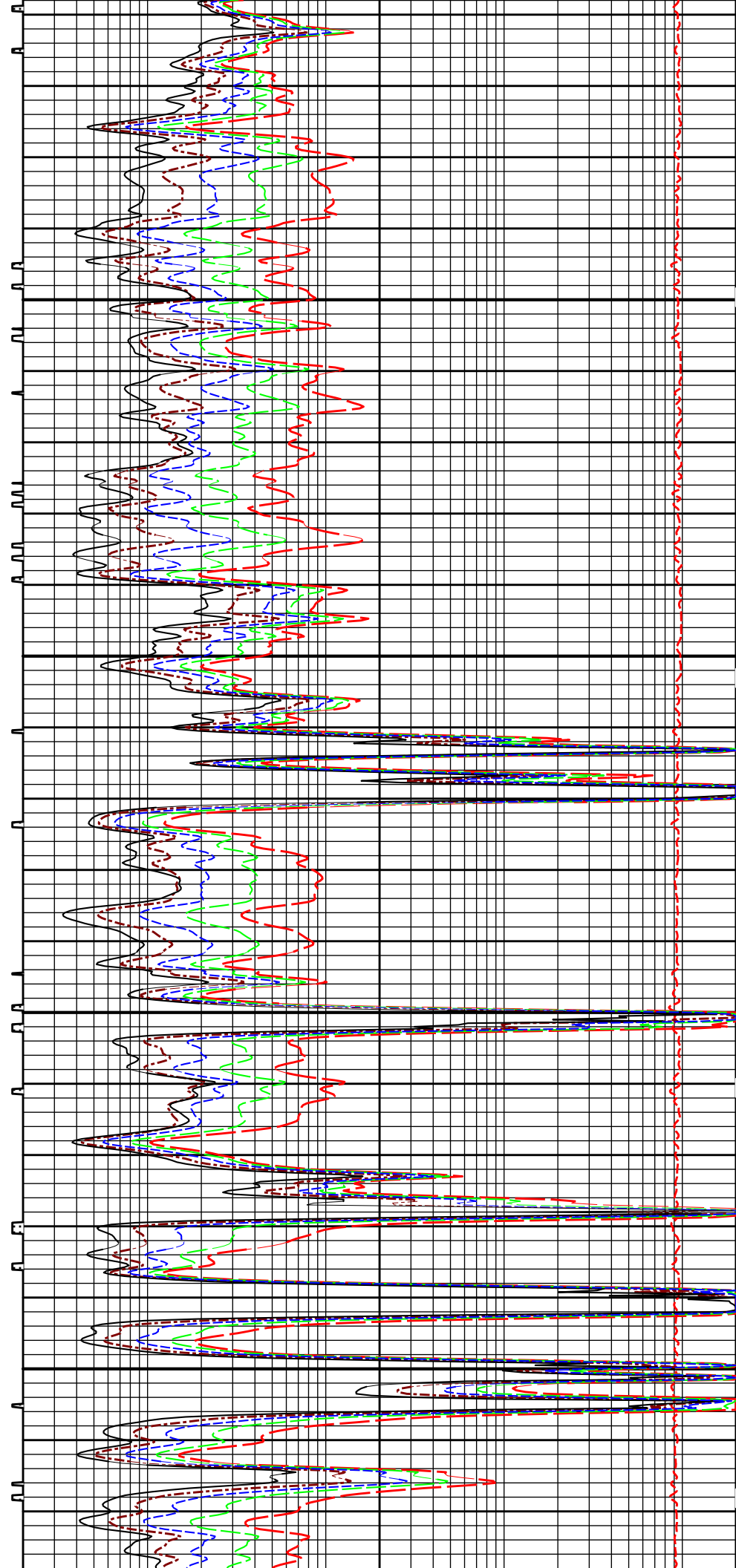
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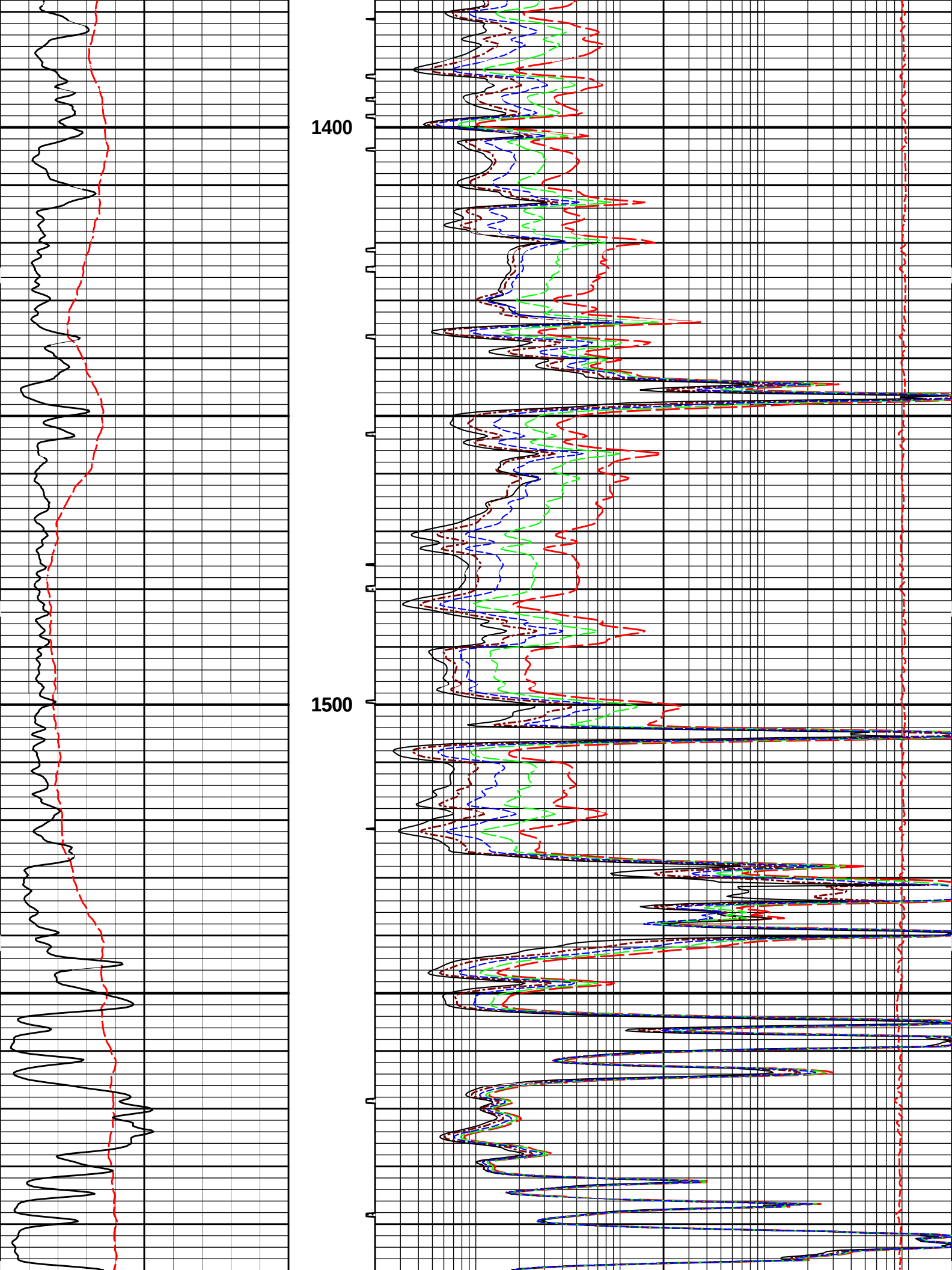


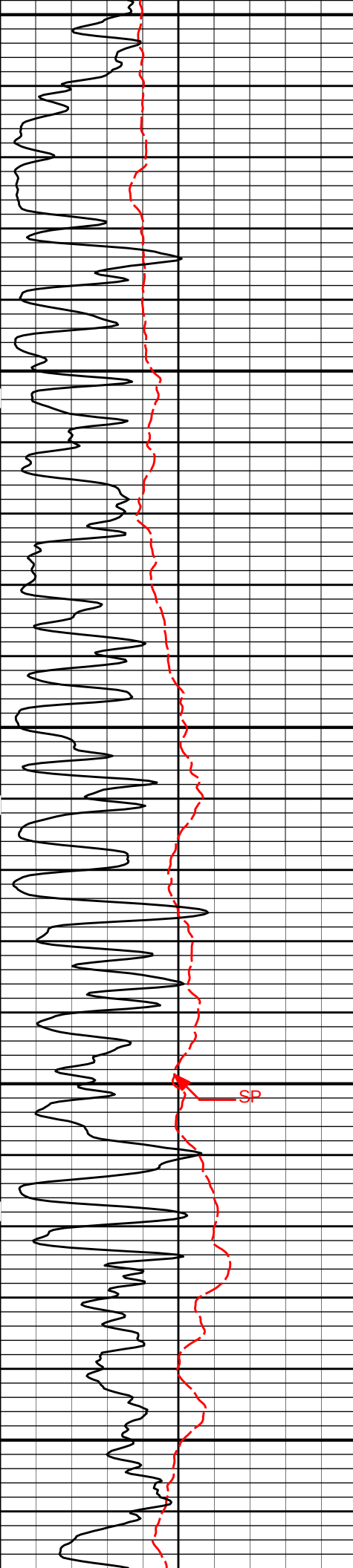


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1300



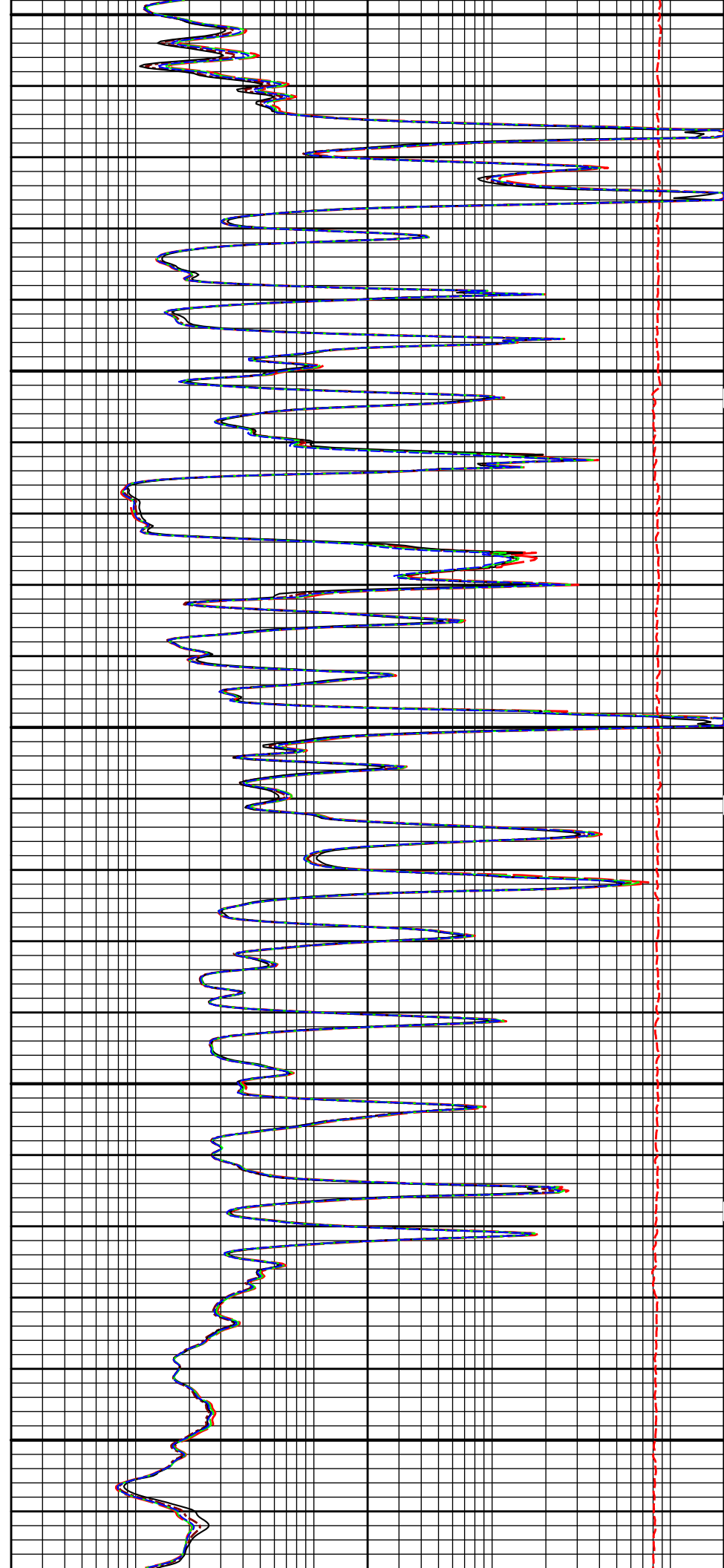


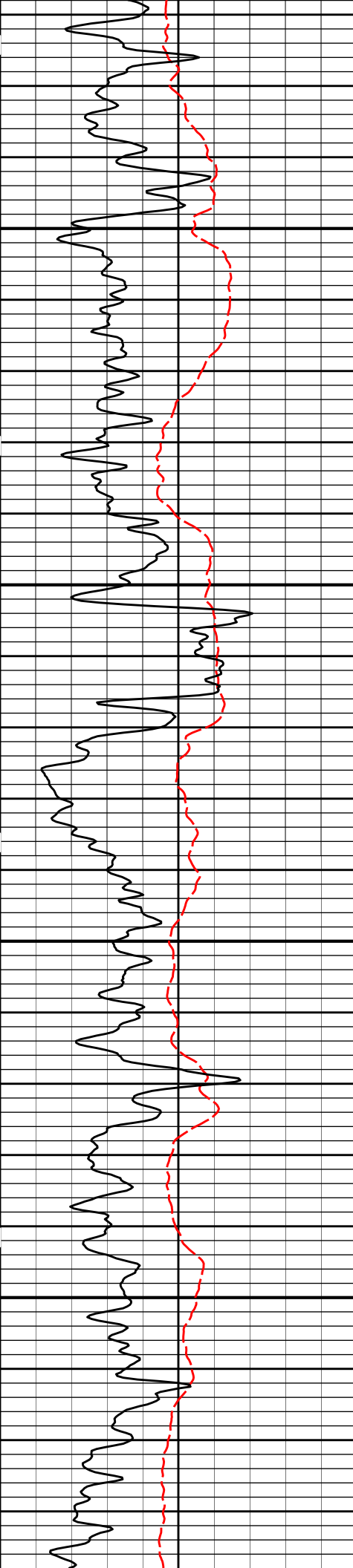


1600

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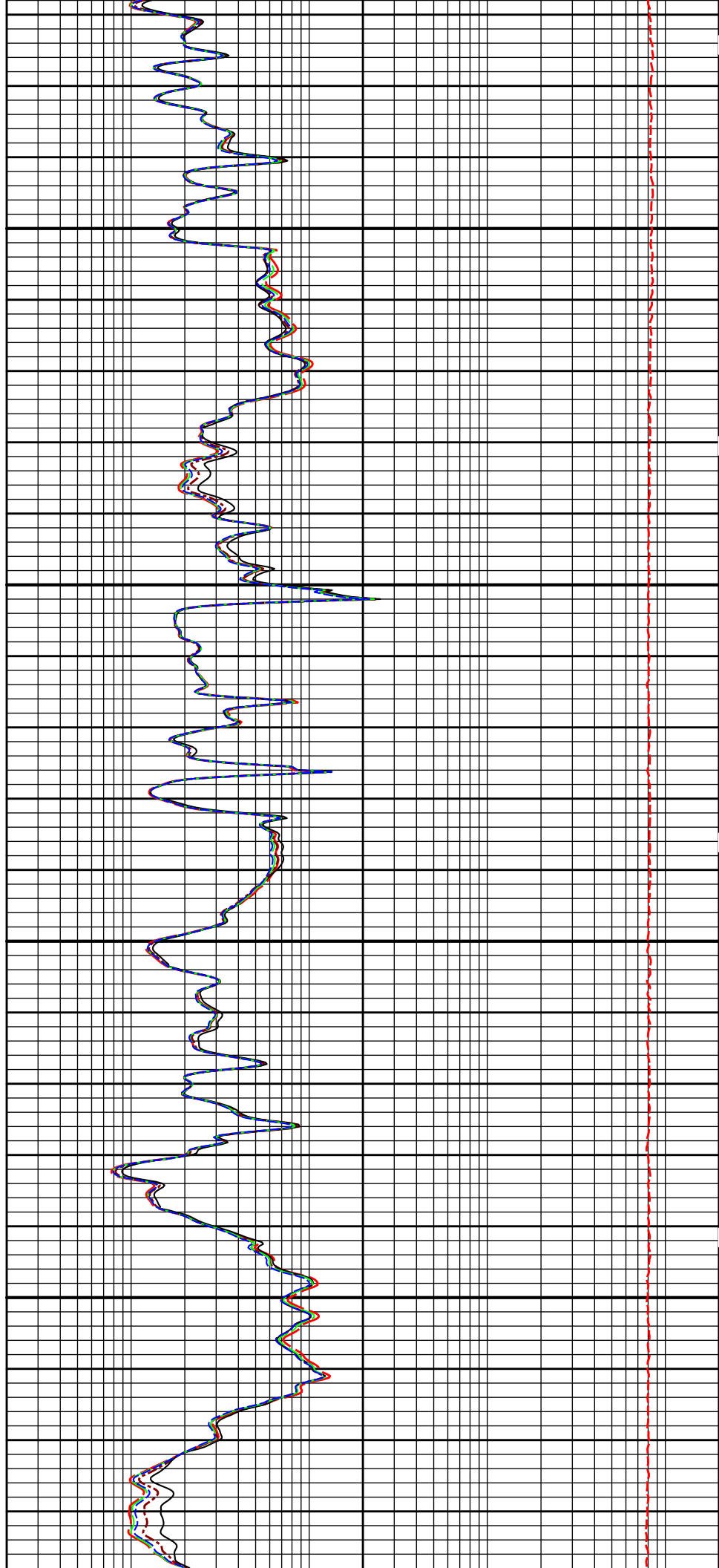
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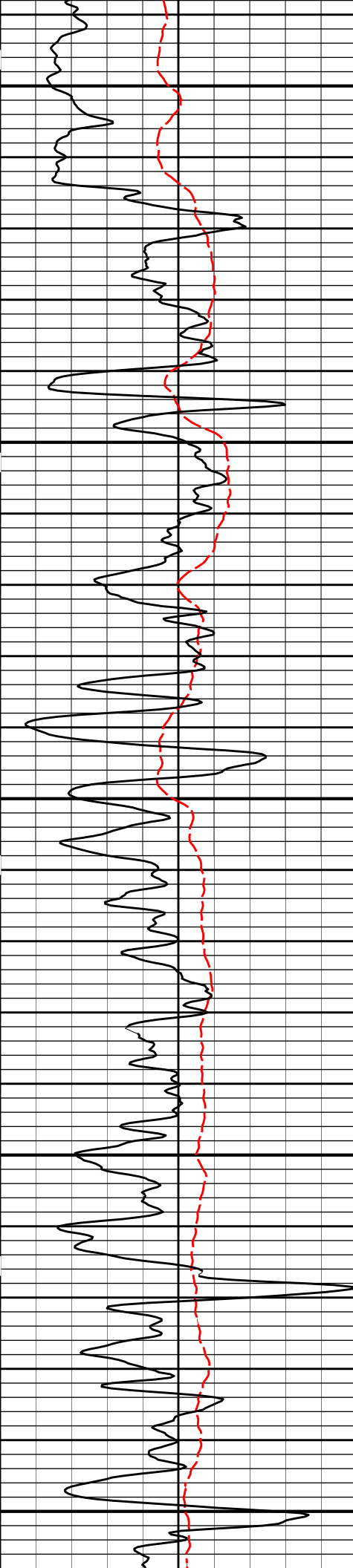




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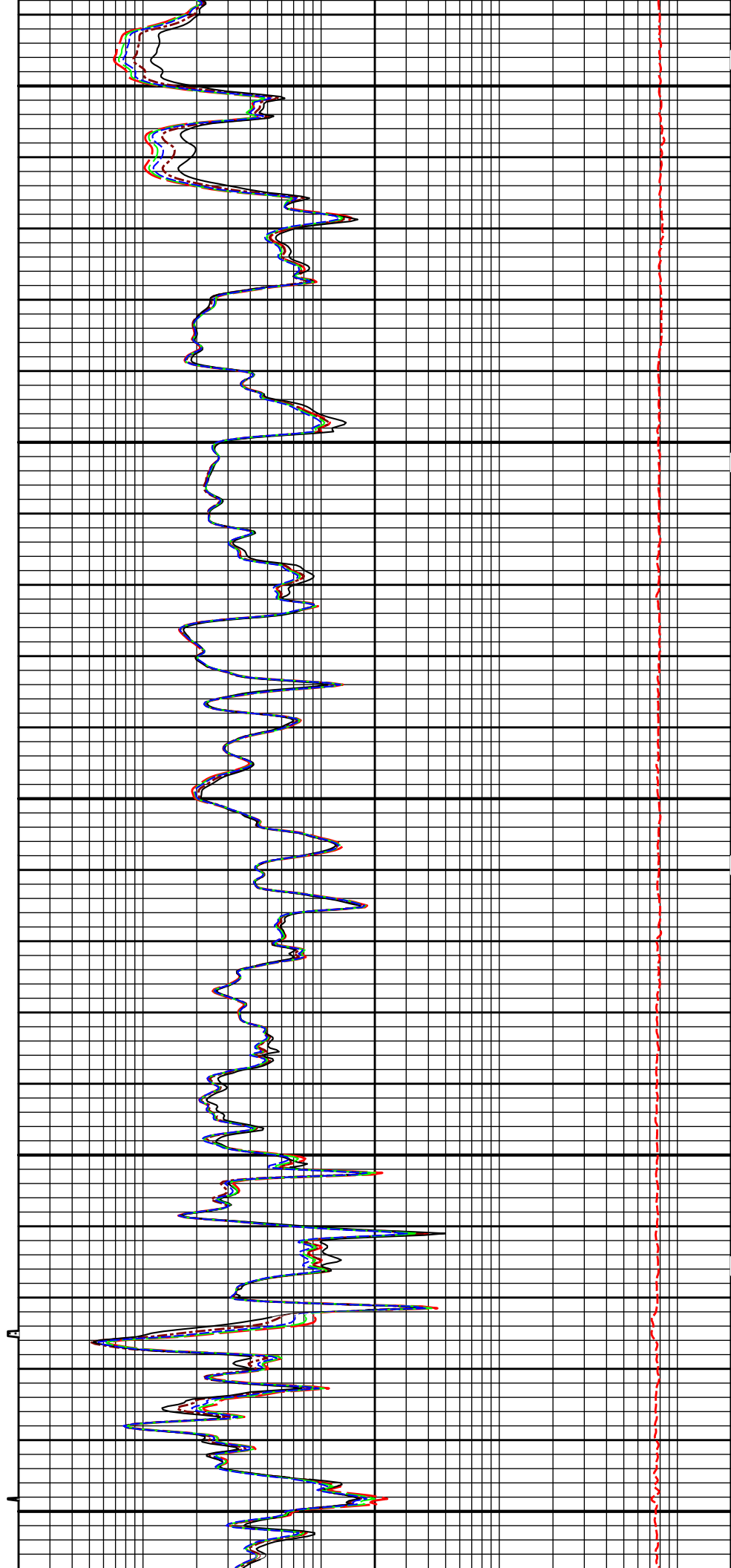
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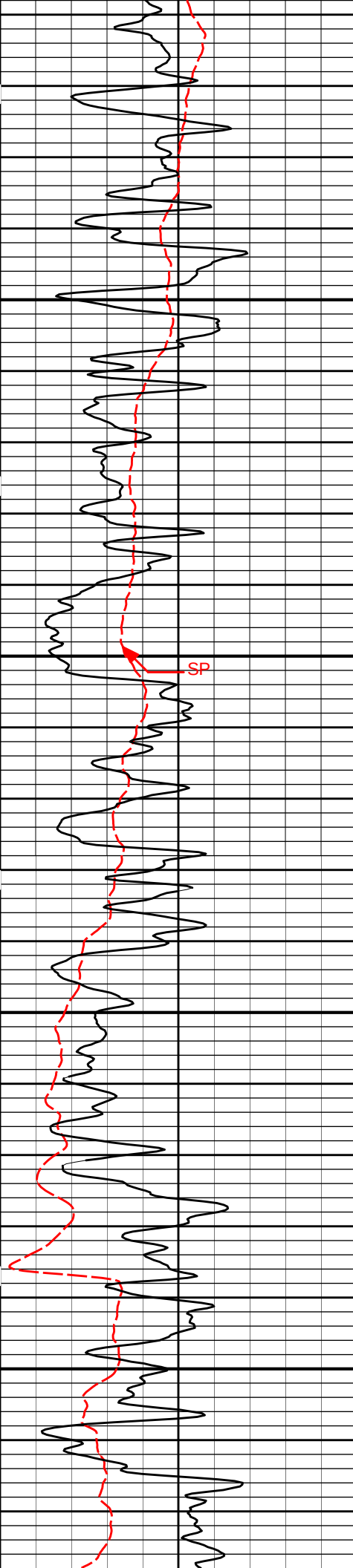




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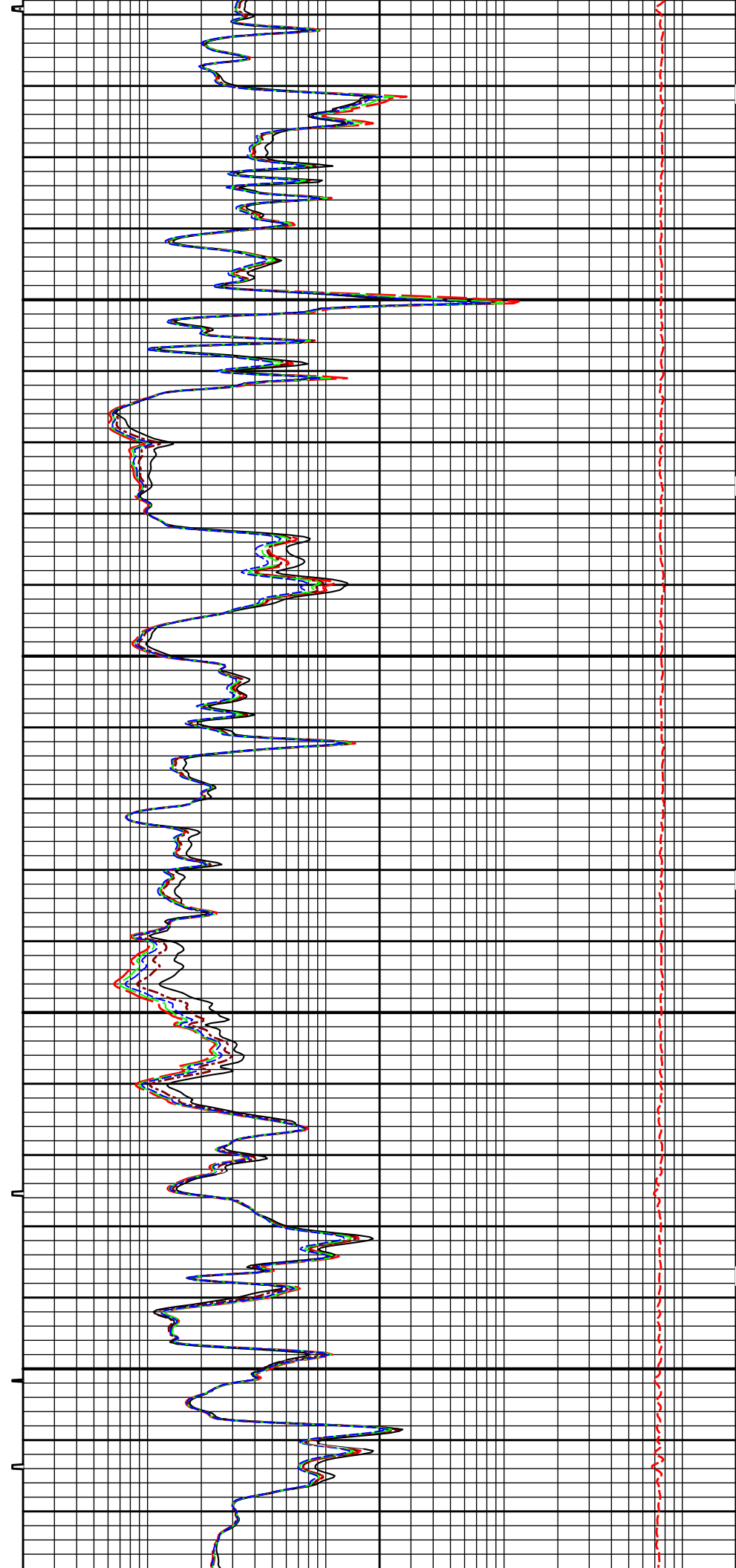
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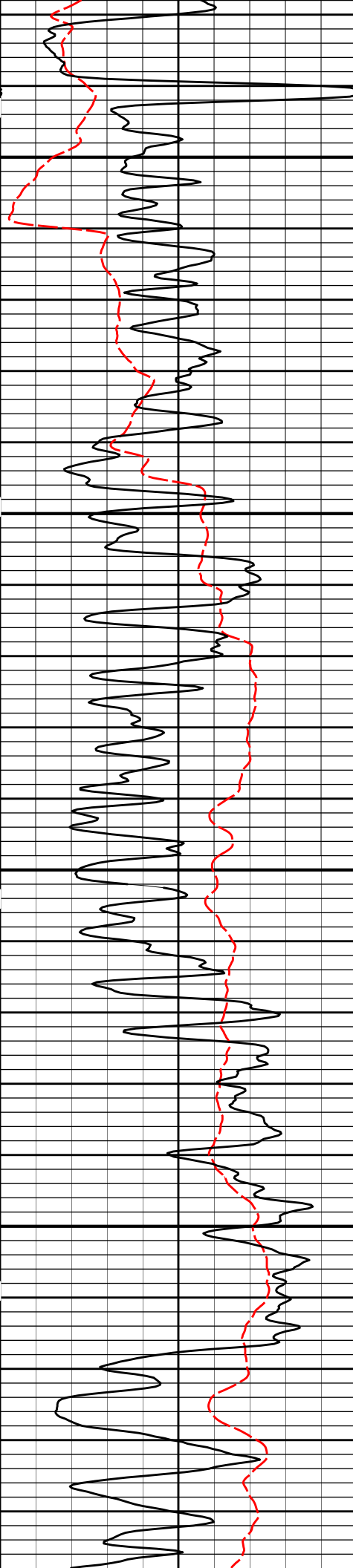




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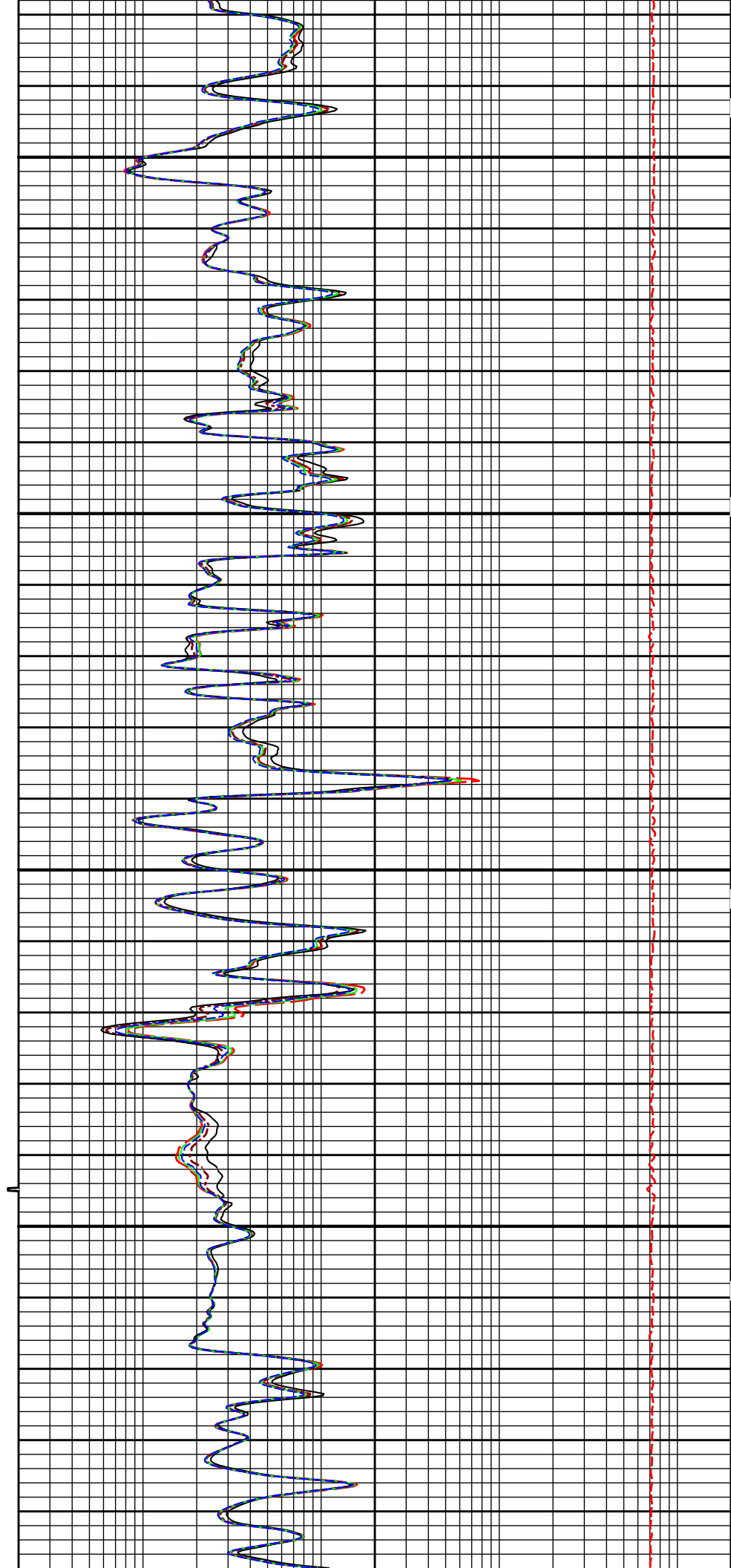
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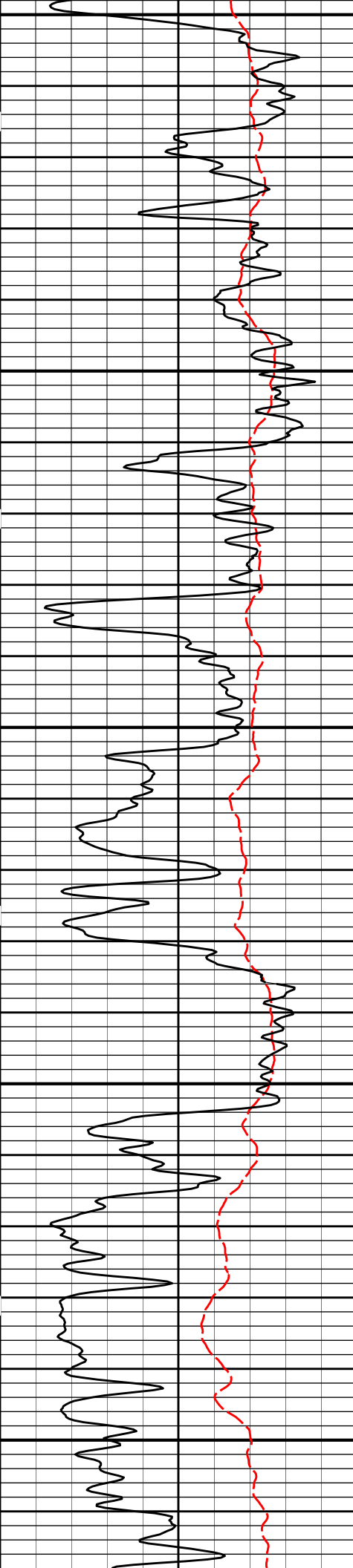




2500

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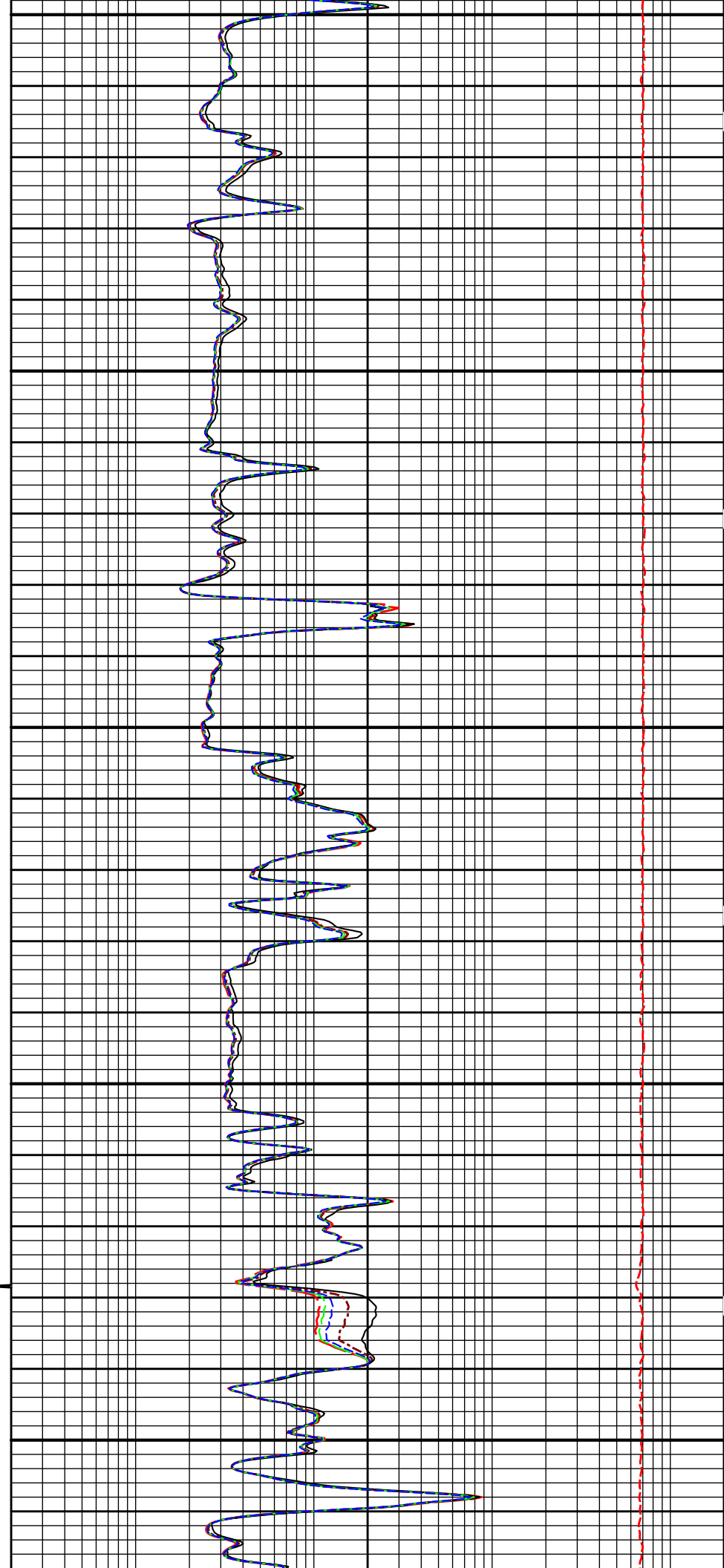


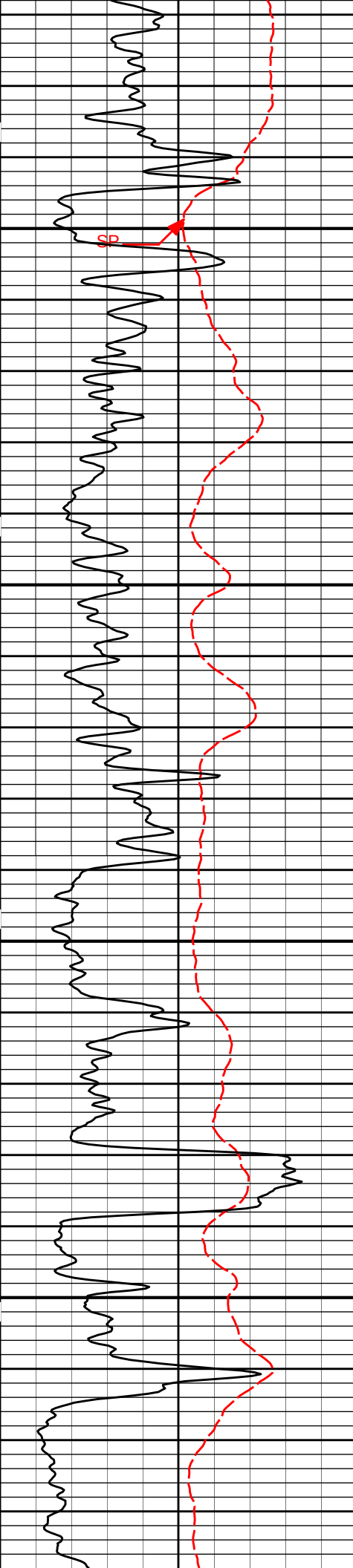


2700

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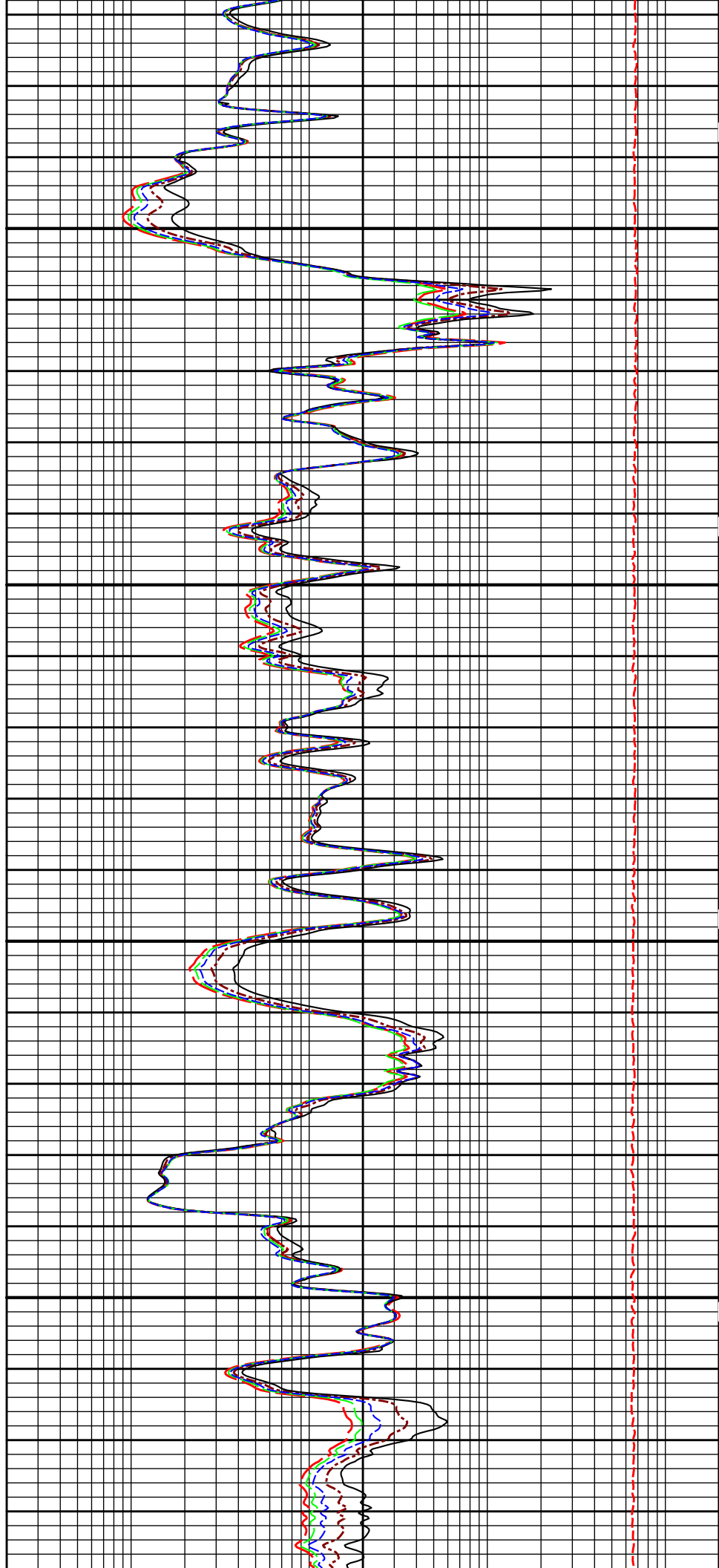
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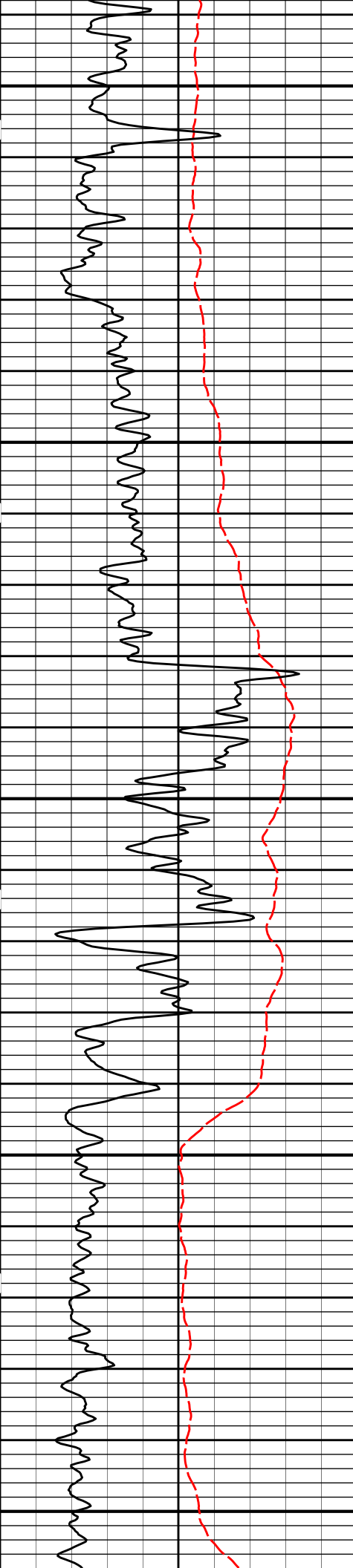




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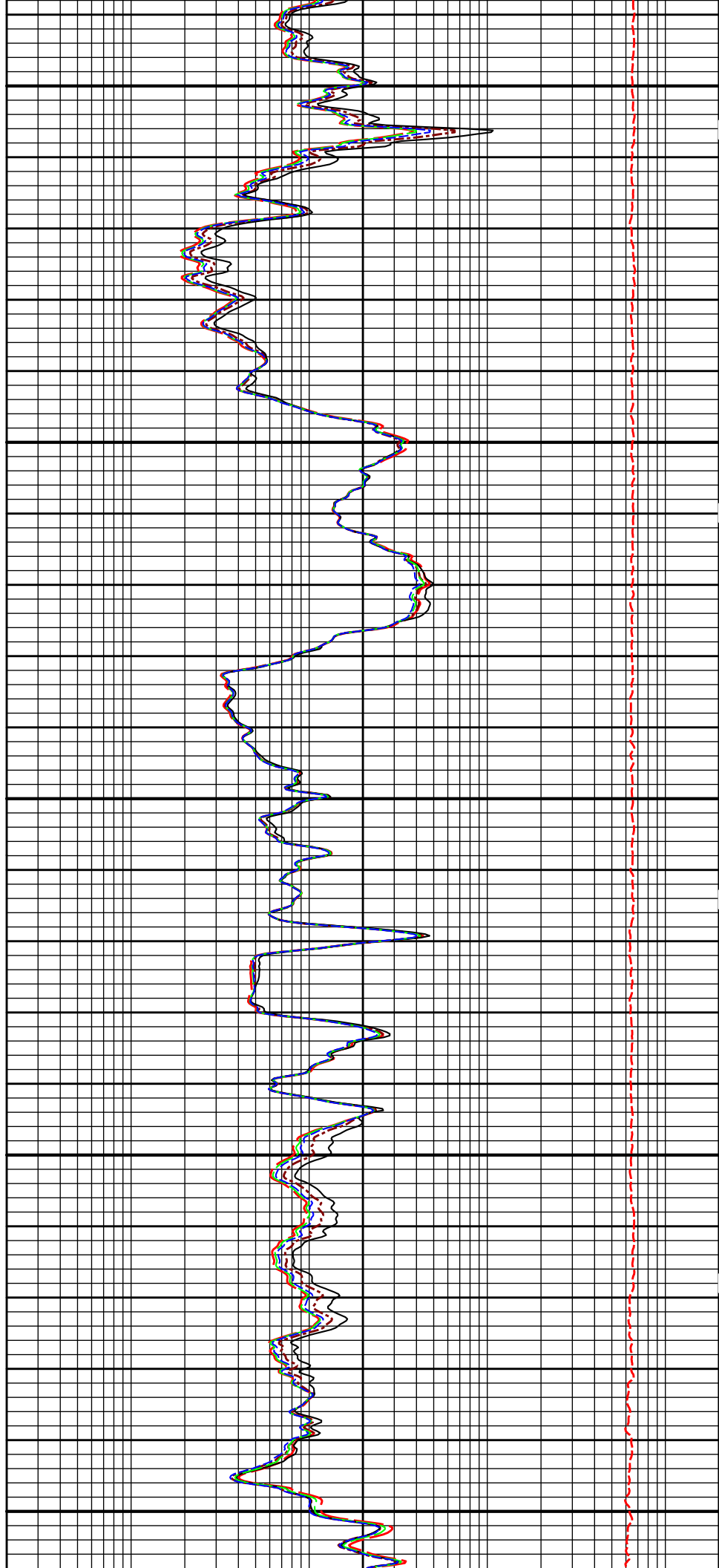
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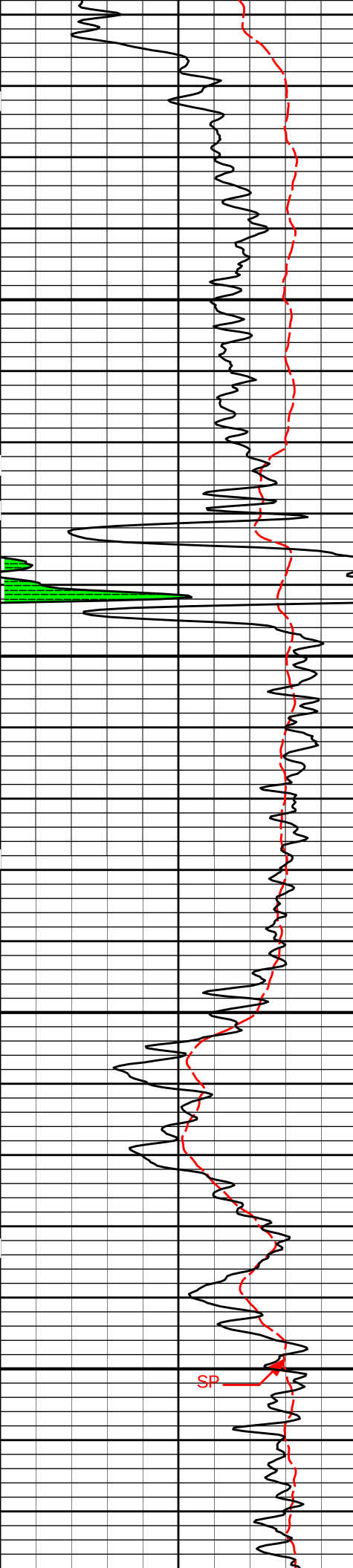




3200

3300

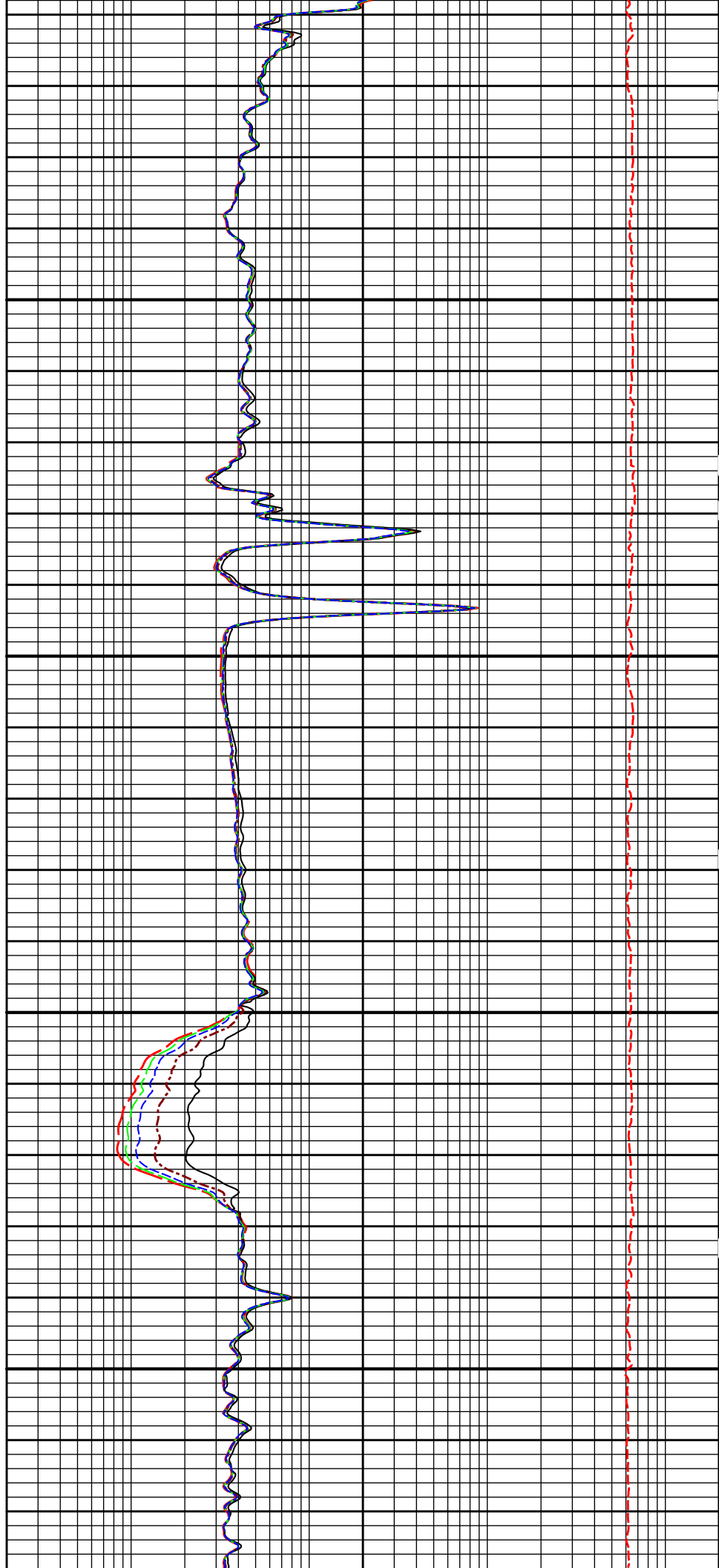


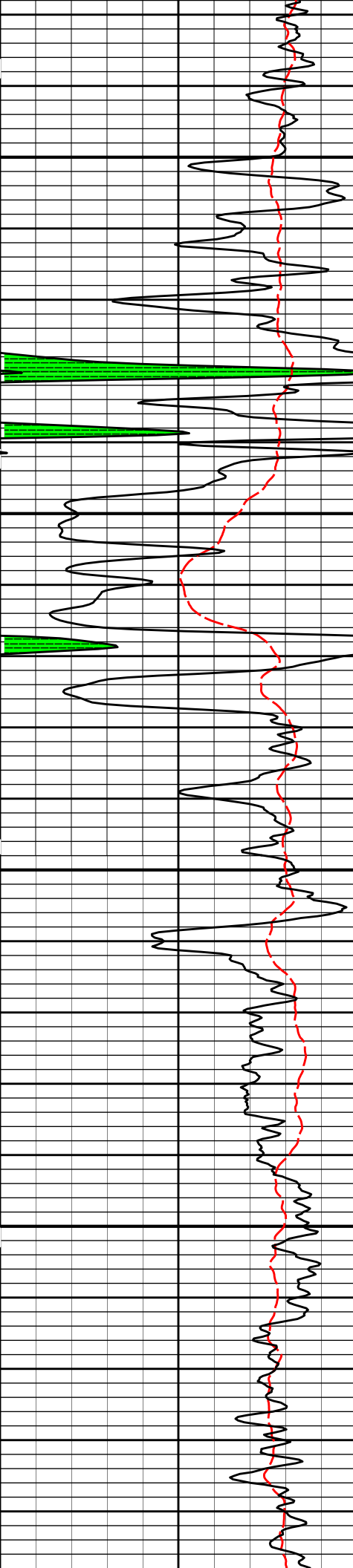


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3500

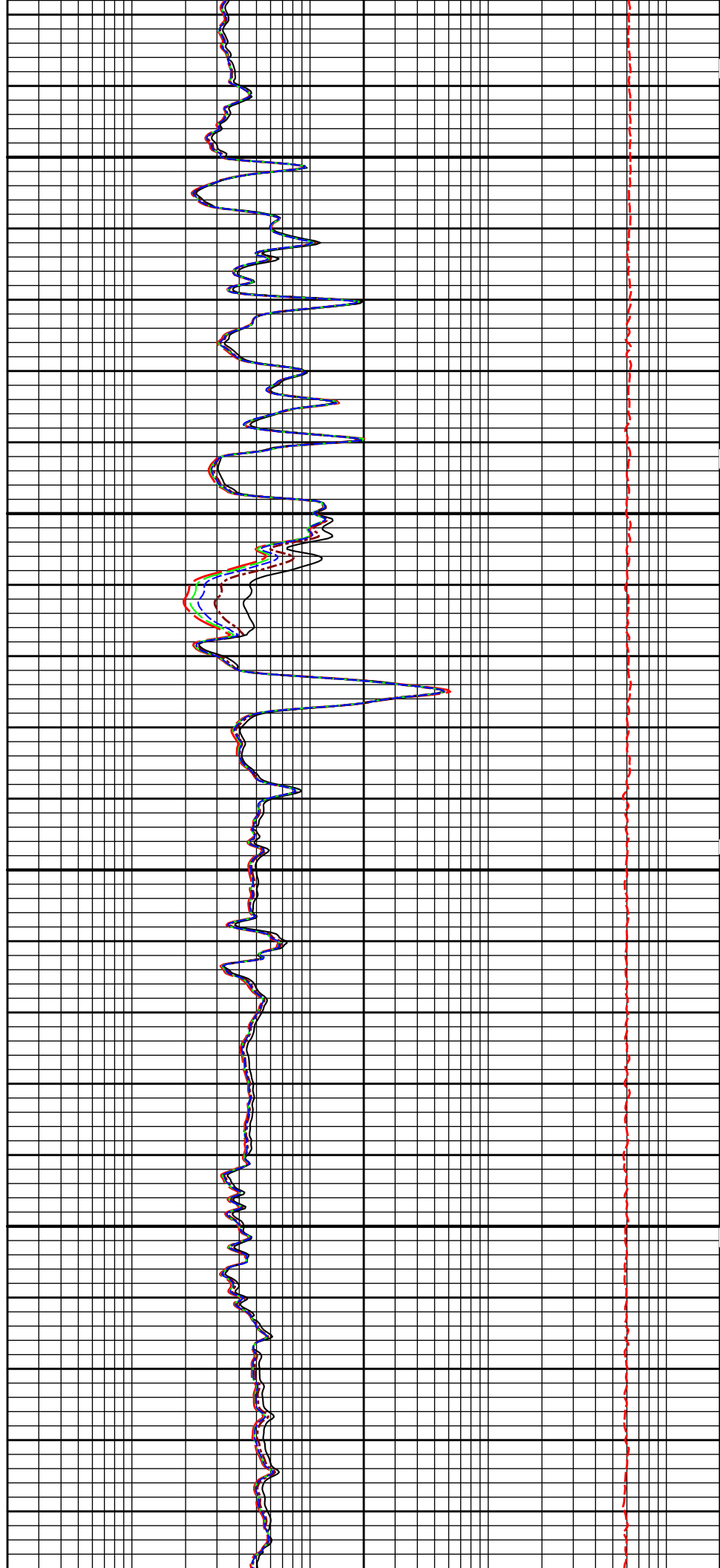
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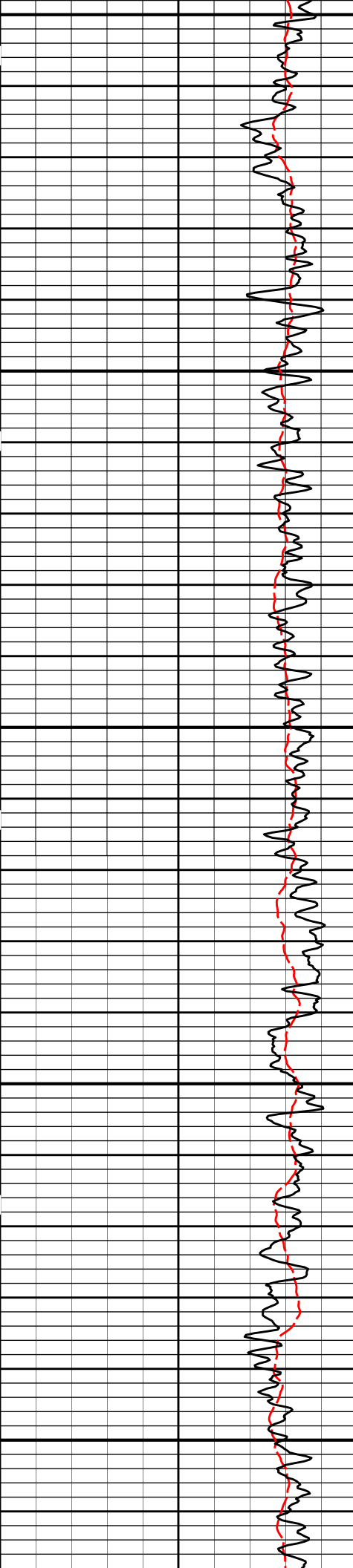




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3700

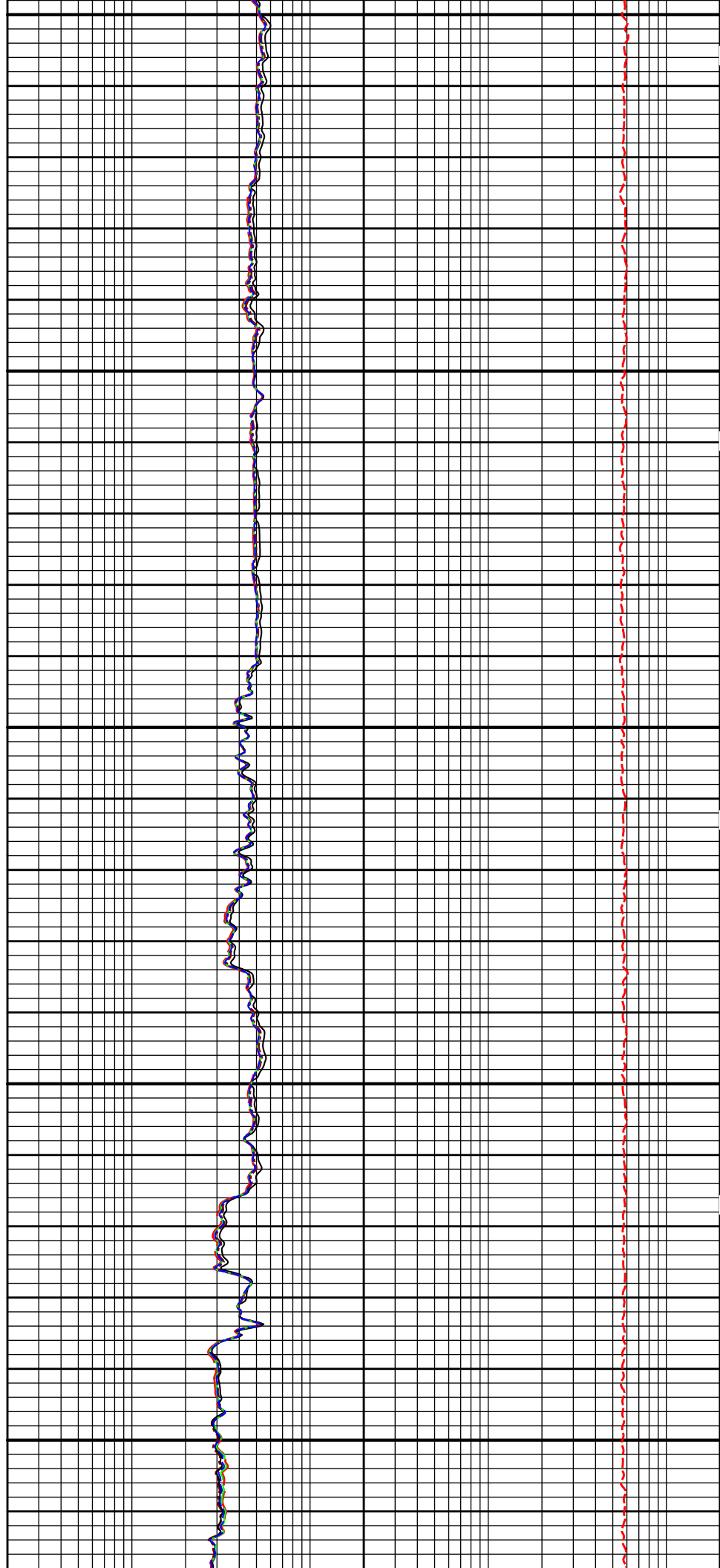


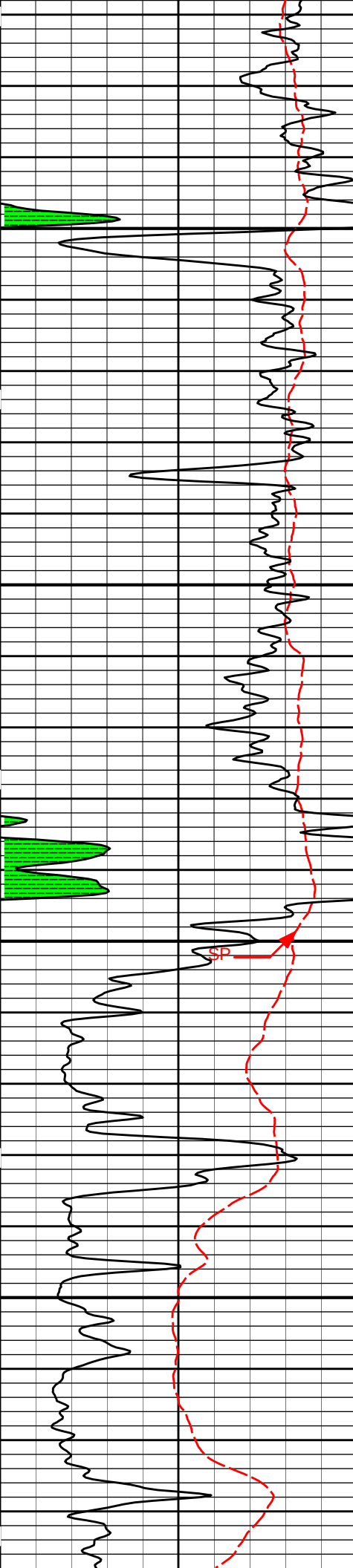


3800

3900

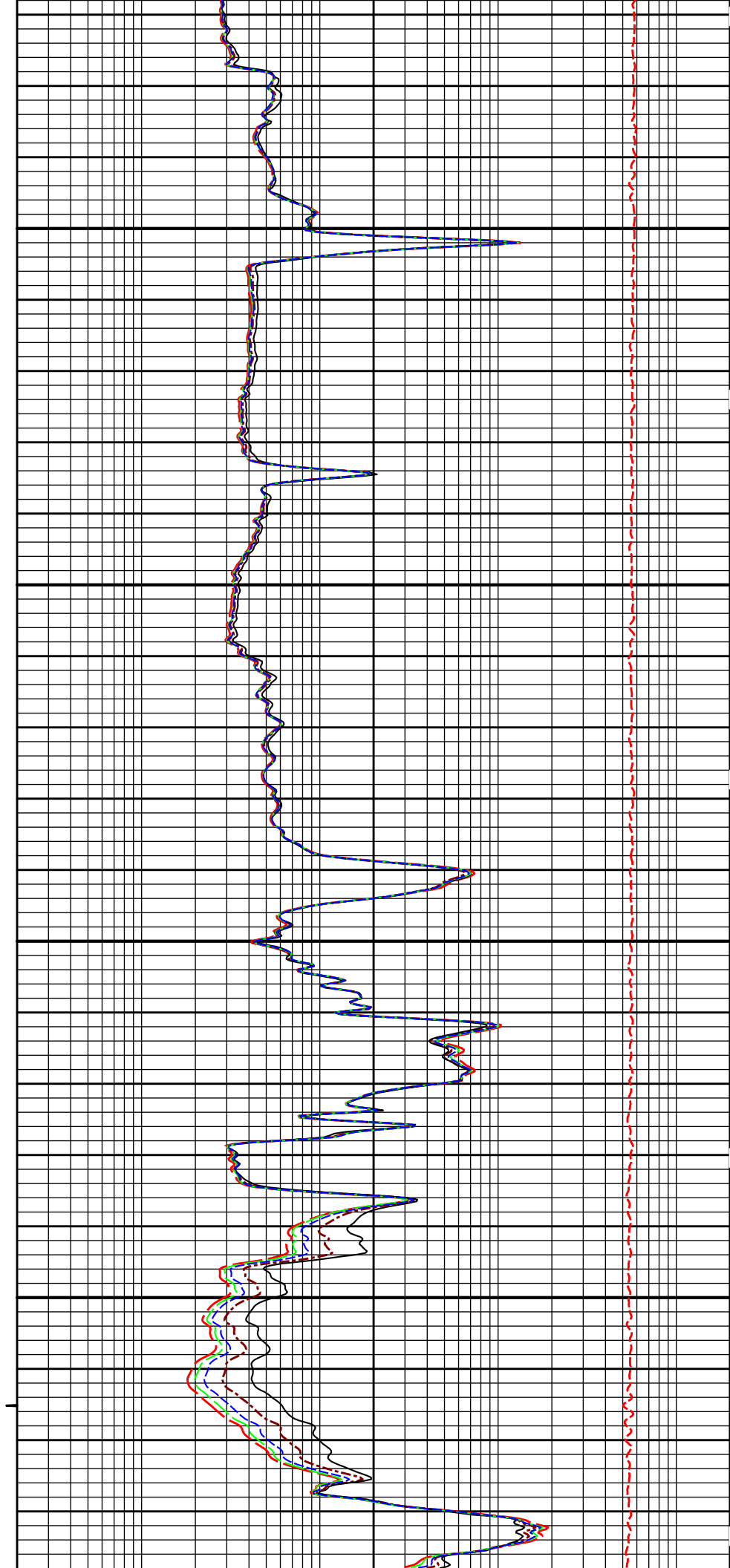
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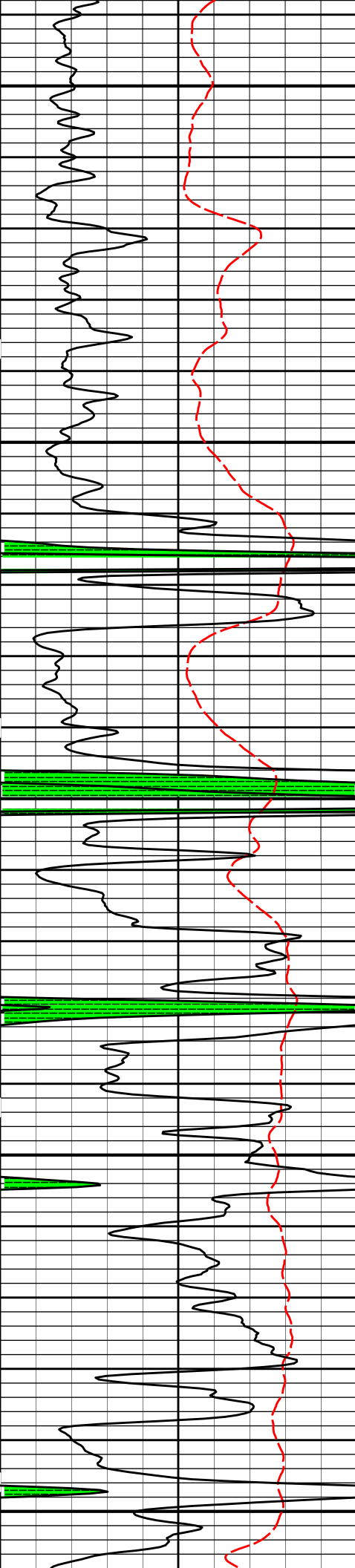




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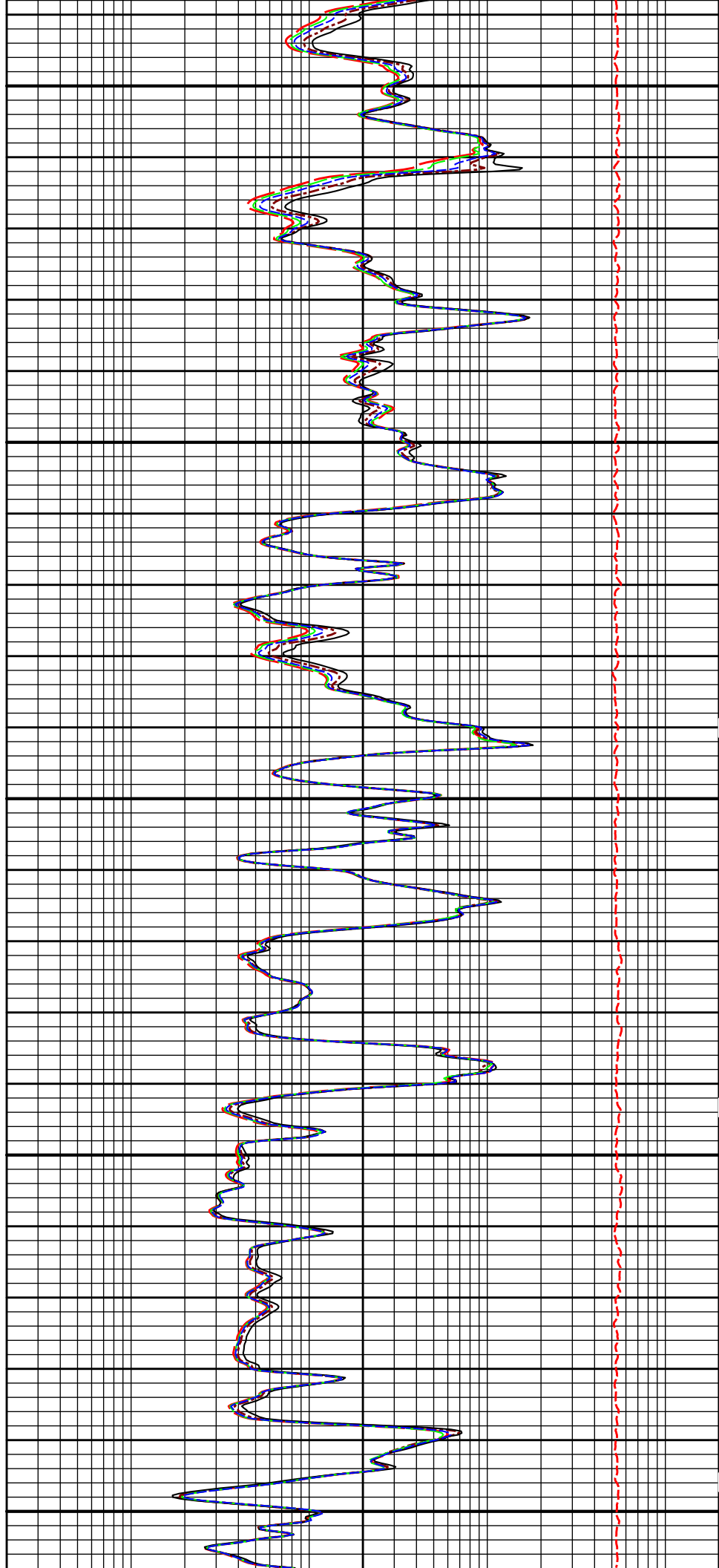
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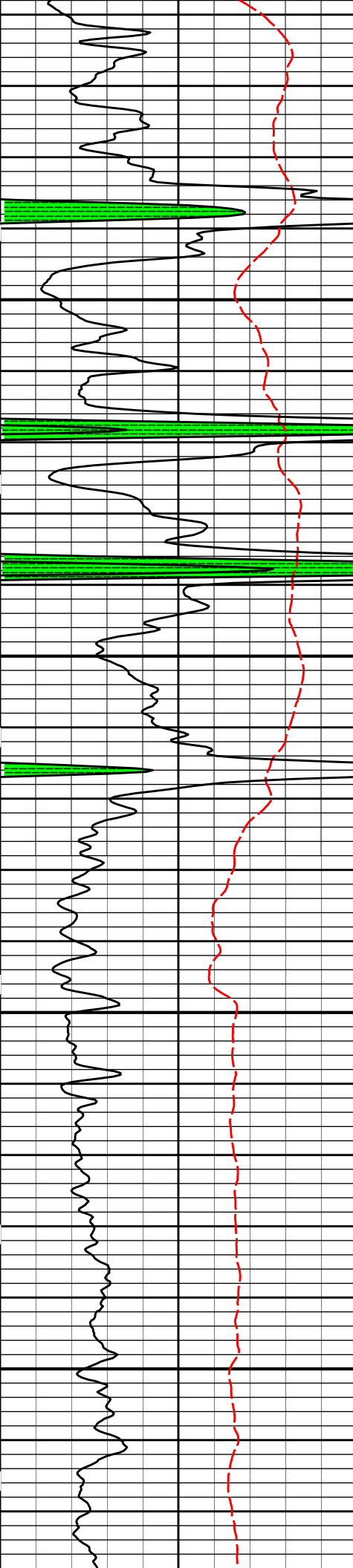




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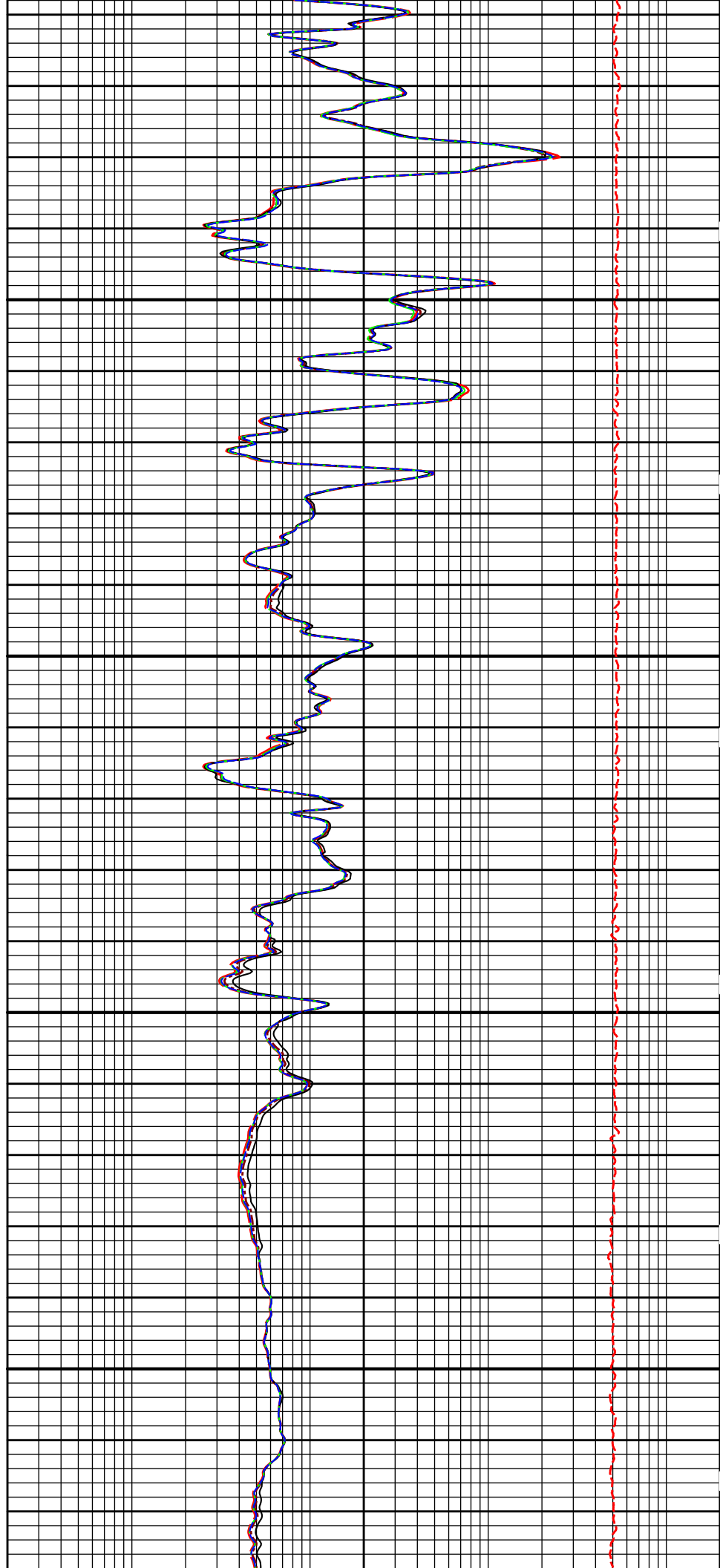
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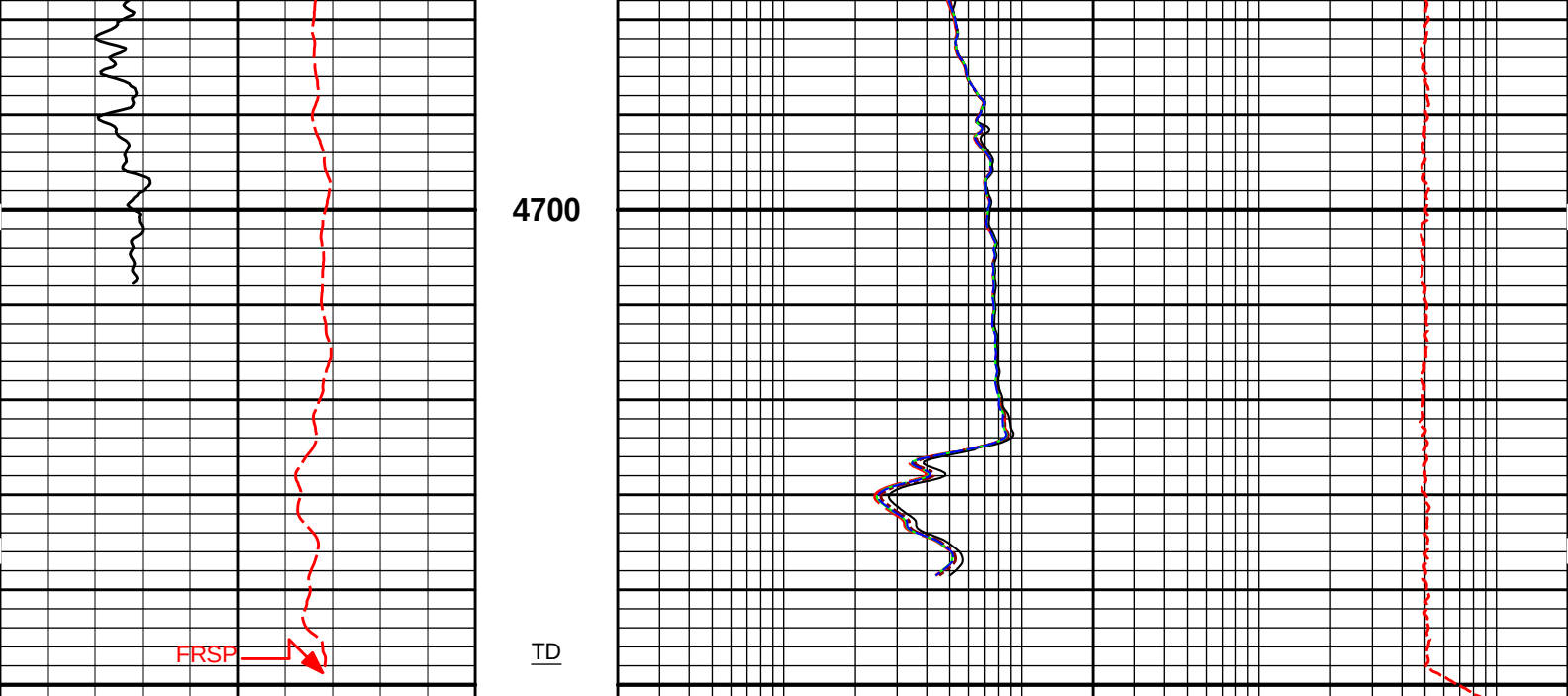




4500

4600





SP -]20[+	1 : 240 ft	10K	Tension pounds	0
0	Gamma API	150	Tension Pull	0
api				
SHALE	Tension Pull	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: 11-May-12 15:34:17
Plot Range: 205 ft to 4751.5 ft
Data: THOM_C_3_12\Well Based\CASING\
Plot File: \\LOCAL-1\THOM_C_3_12\0001 GTET-DSNT-SDLT-ACRT\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

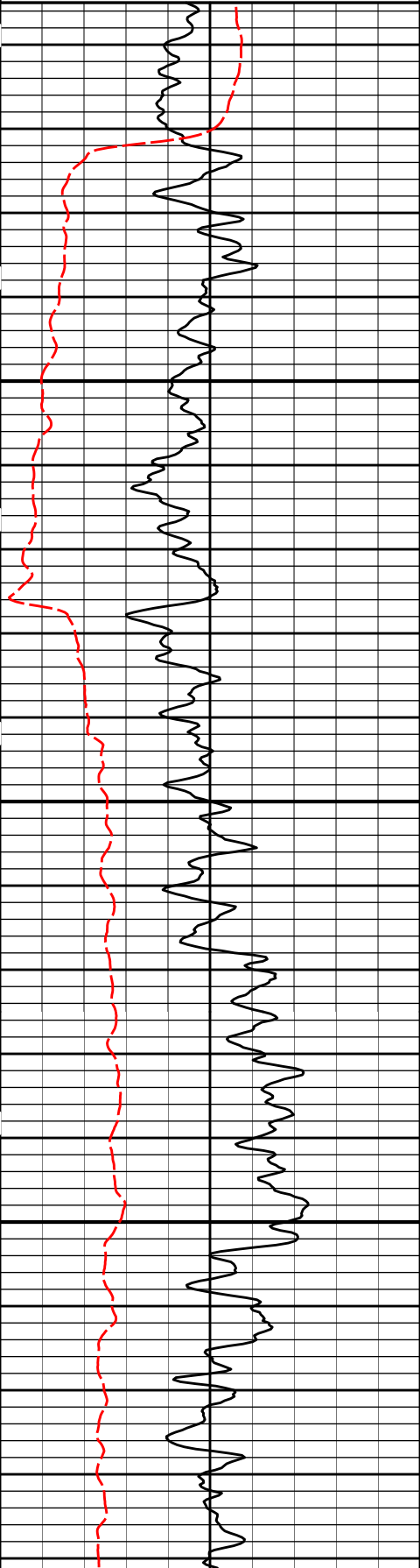
HALLIBURTON

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Data: THOM_C_3_12\Well Based\CASING\
Plot File: \\LOCAL-1\THOM_C_3_12\0001 GTET-DSNT-SDLT-ACRT\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

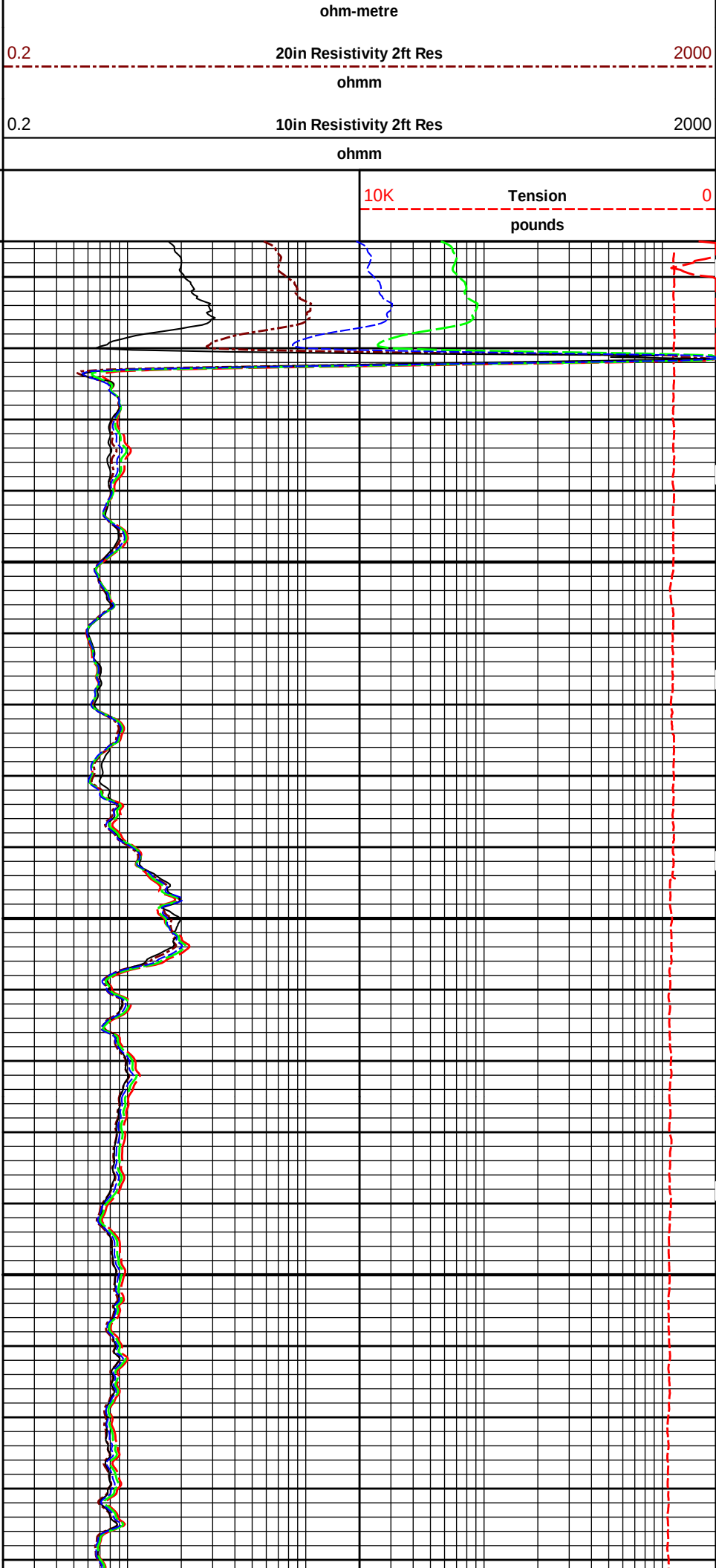
0.2	90in Resistivity 2ft Res	2000
	ohmm	
0.2	60in Resistivity 2ft Res	2000
	ohmm	
0.2	30in Resistivity 2ft Res	2000

SHALE		
0	Gamma API	150
api		
SP		
-120[+		



1 : 240
ft

300



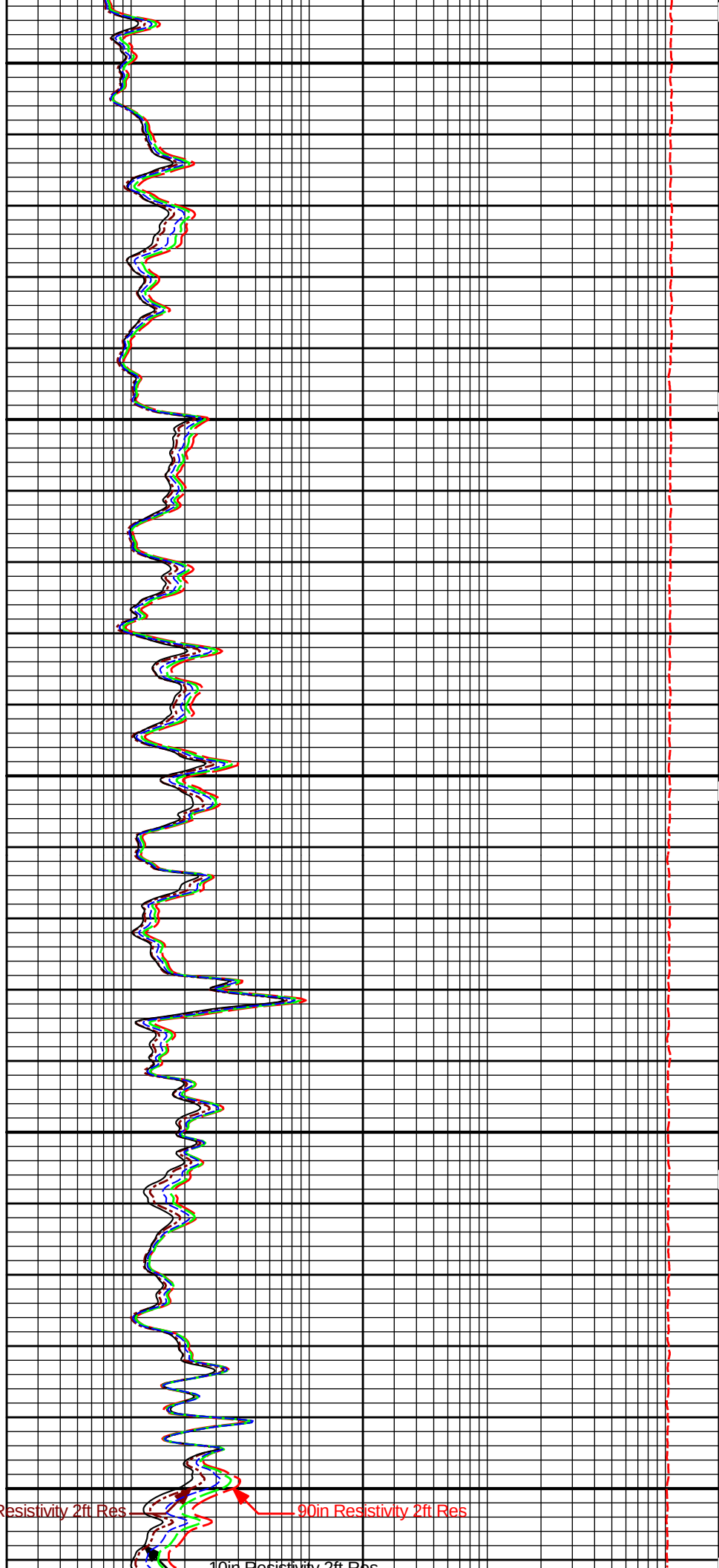


400

500

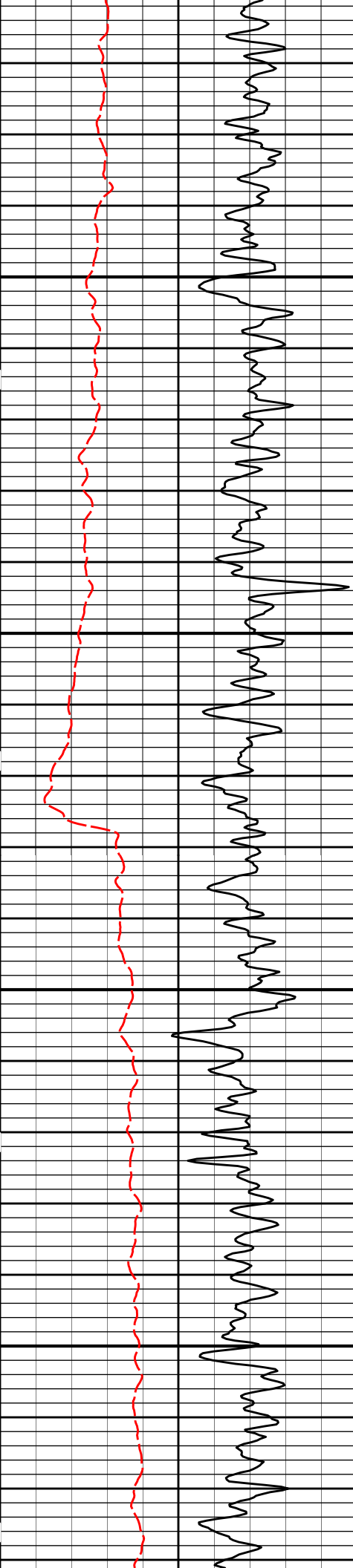
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20in Resistivity 2ft Res



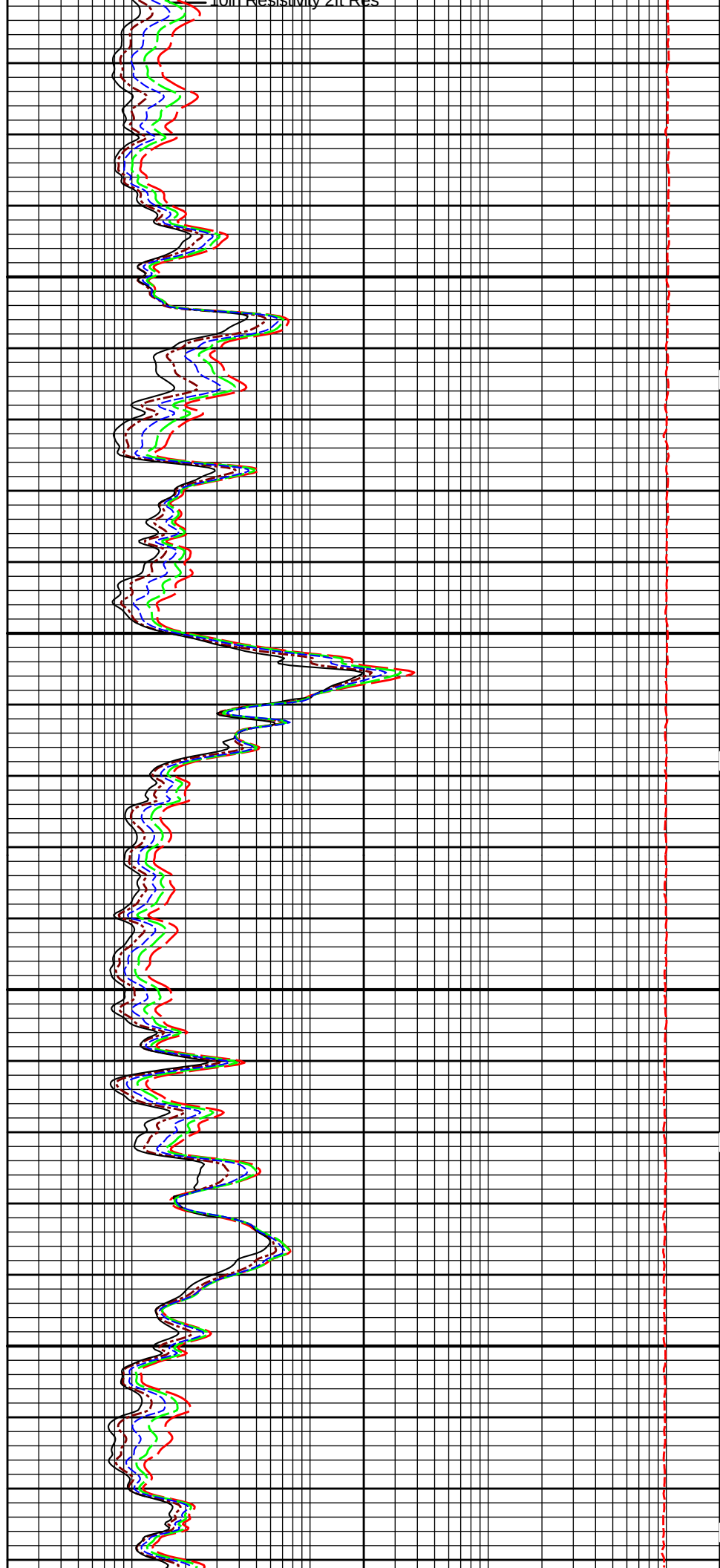
10in Resistivity 2ft Res

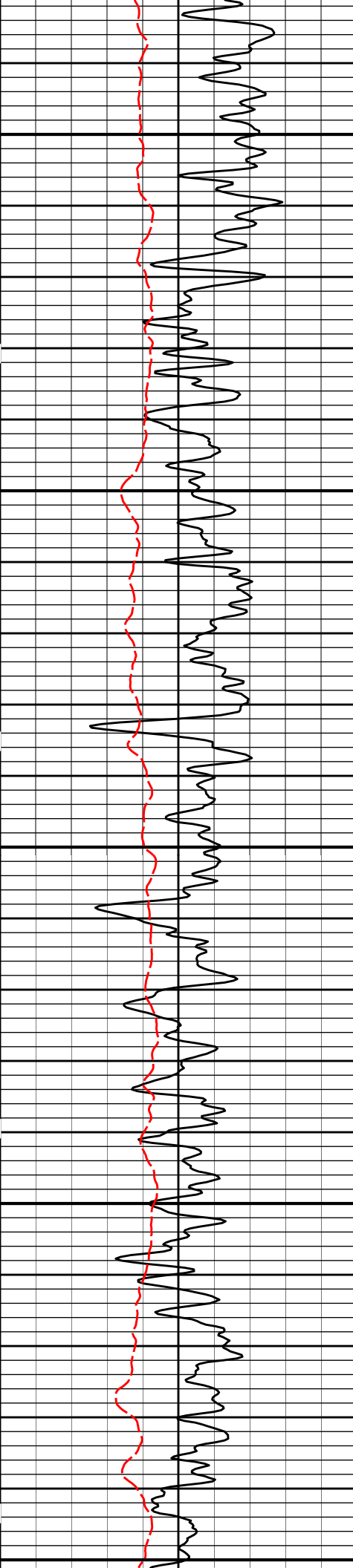
90in Resistivity 2ft Res



700

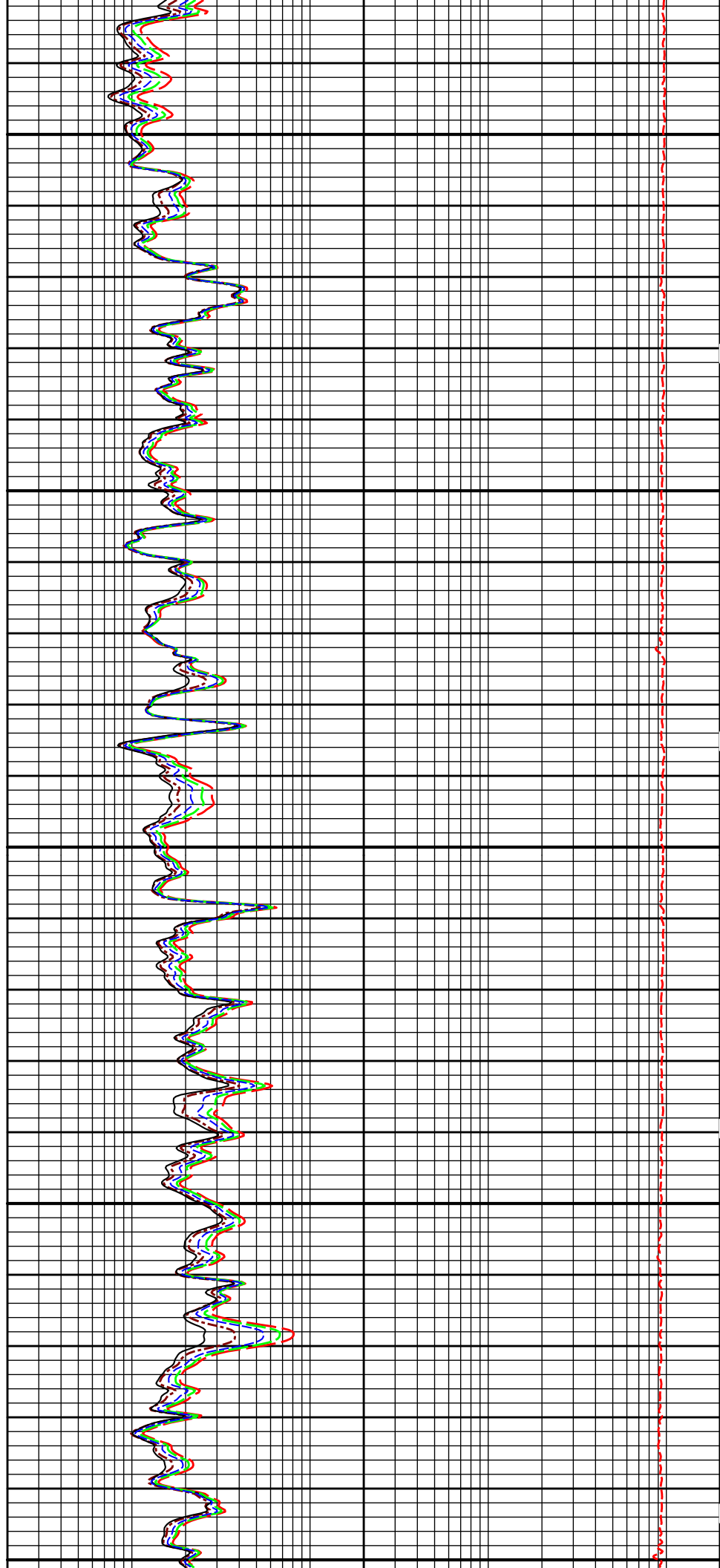
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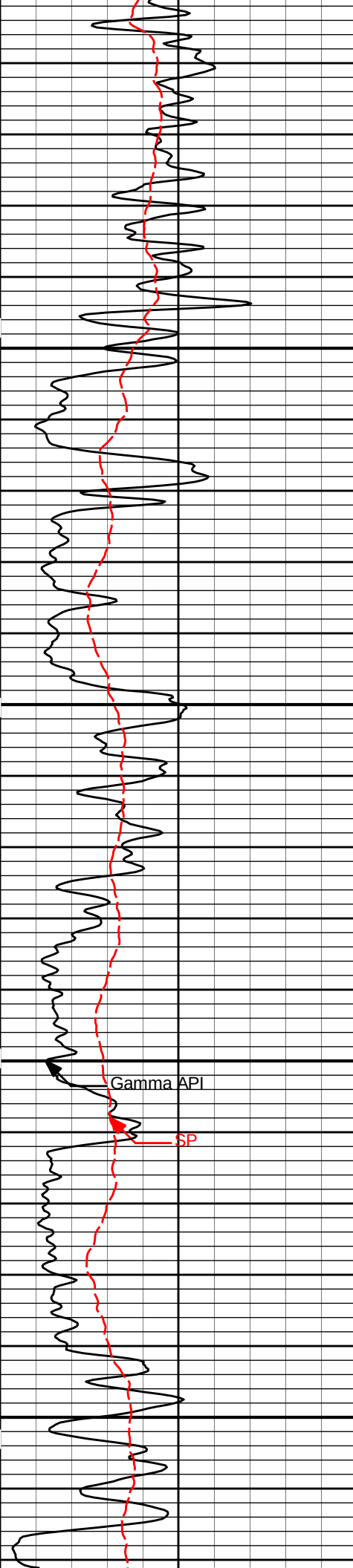




900

1000

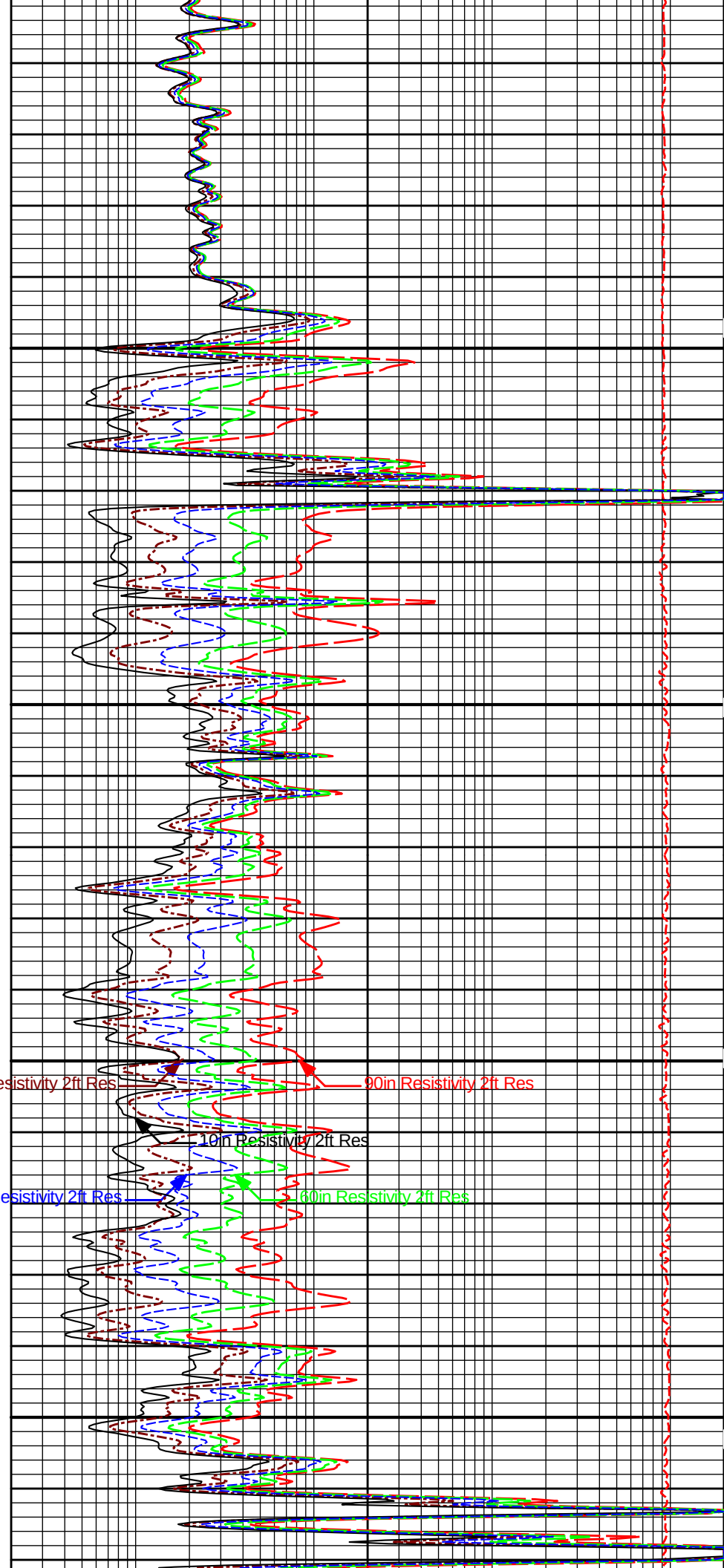


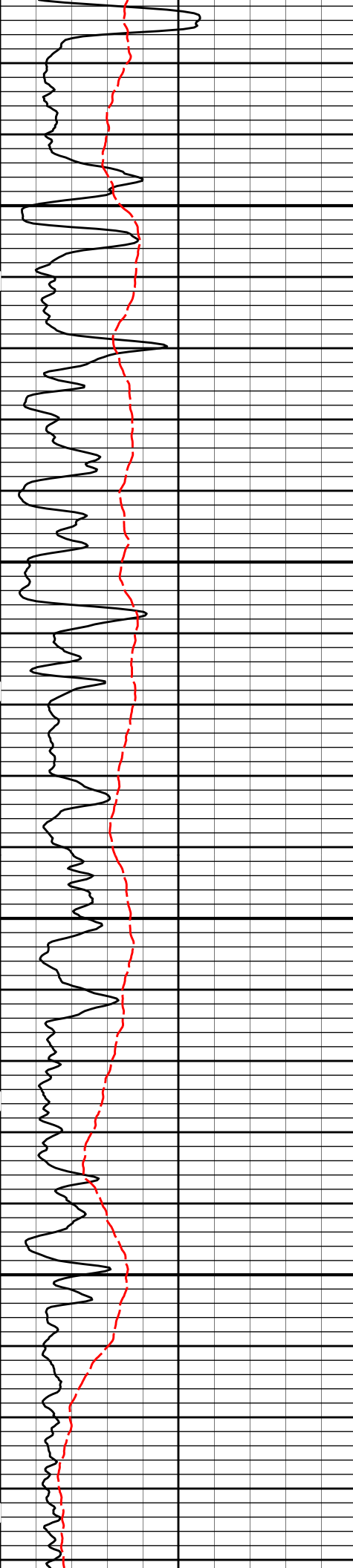


1100

1200

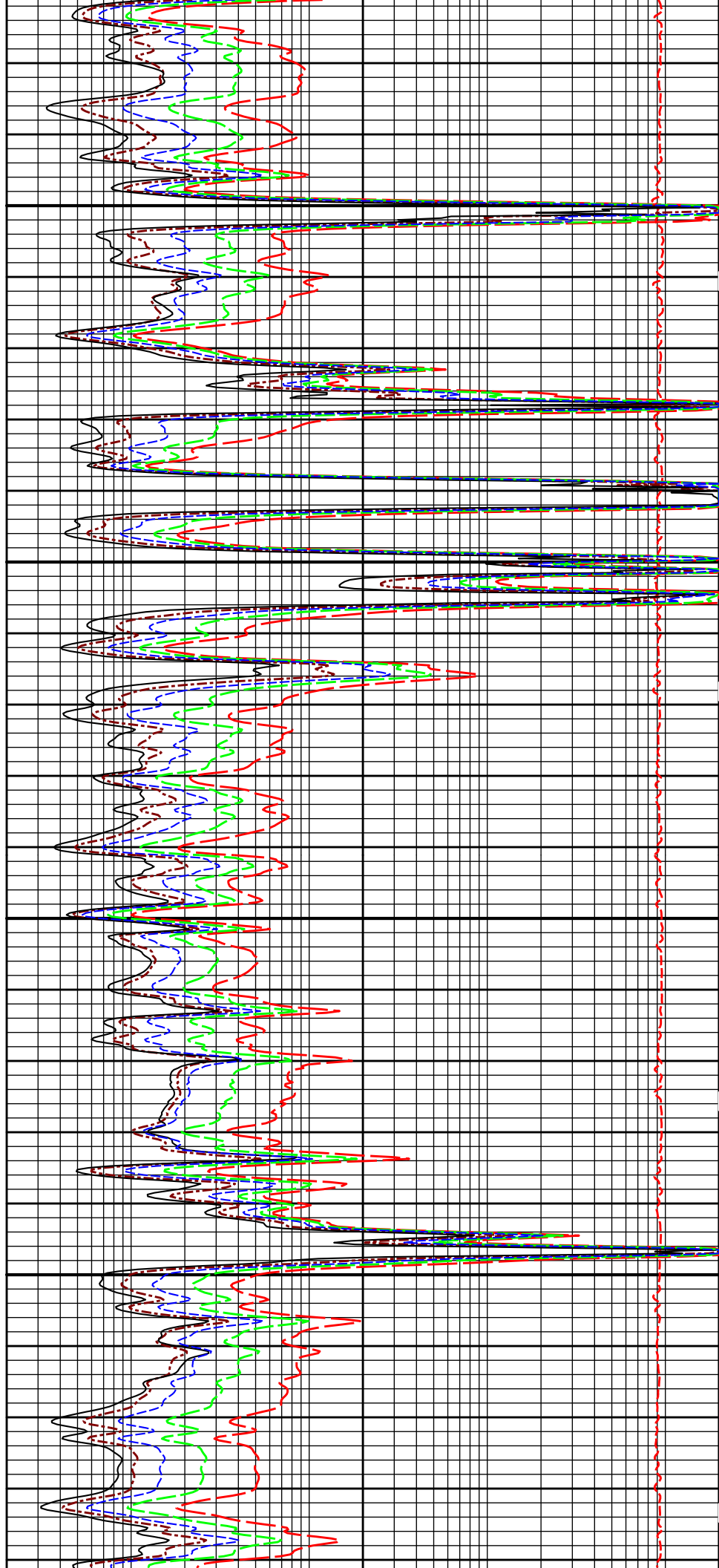
20in Resistivity 2ft Res
10in Resistivity 2ft Res
30in Resistivity 2ft Res
90in Resistivity 2ft Res
60in Resistivity 2ft Res

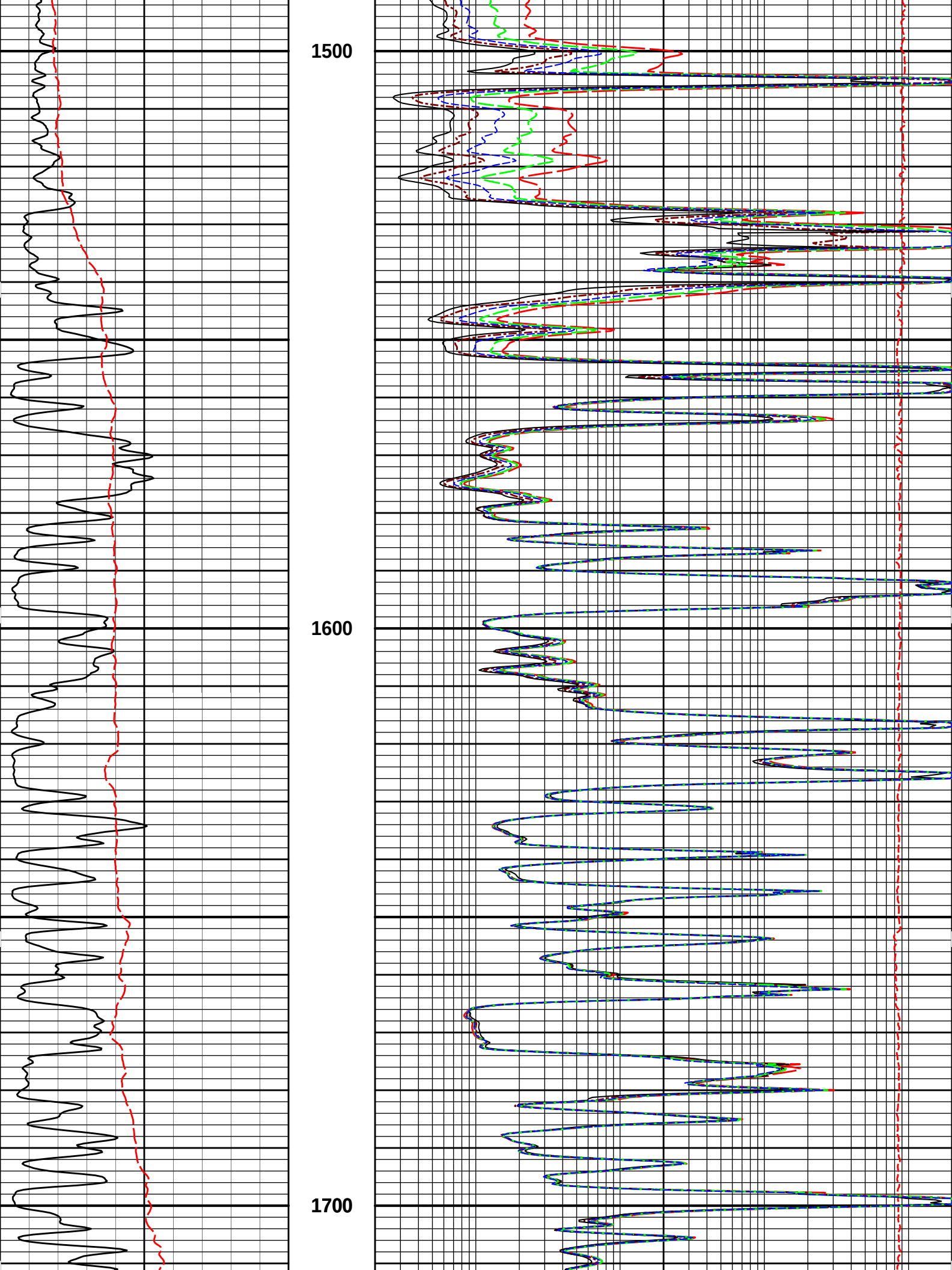


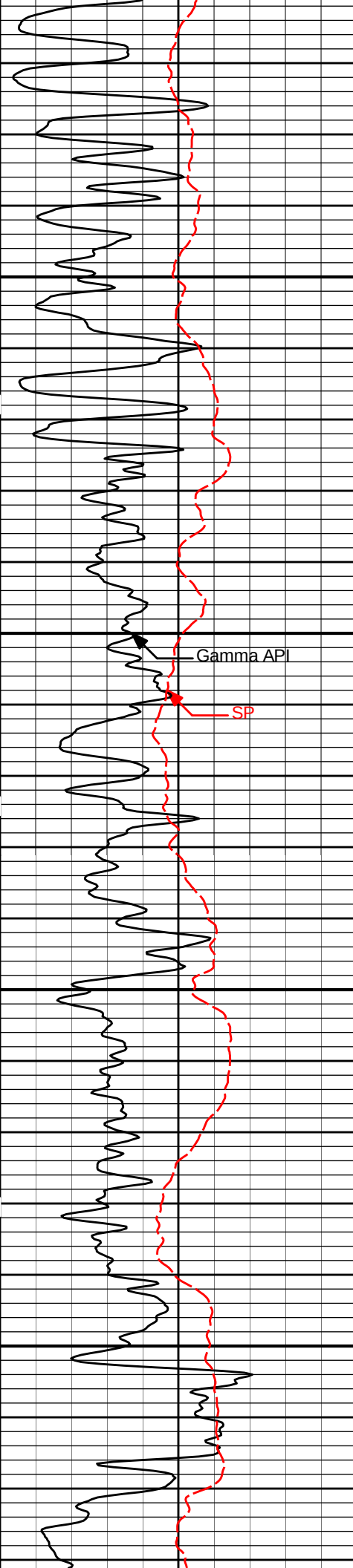


1300

1400



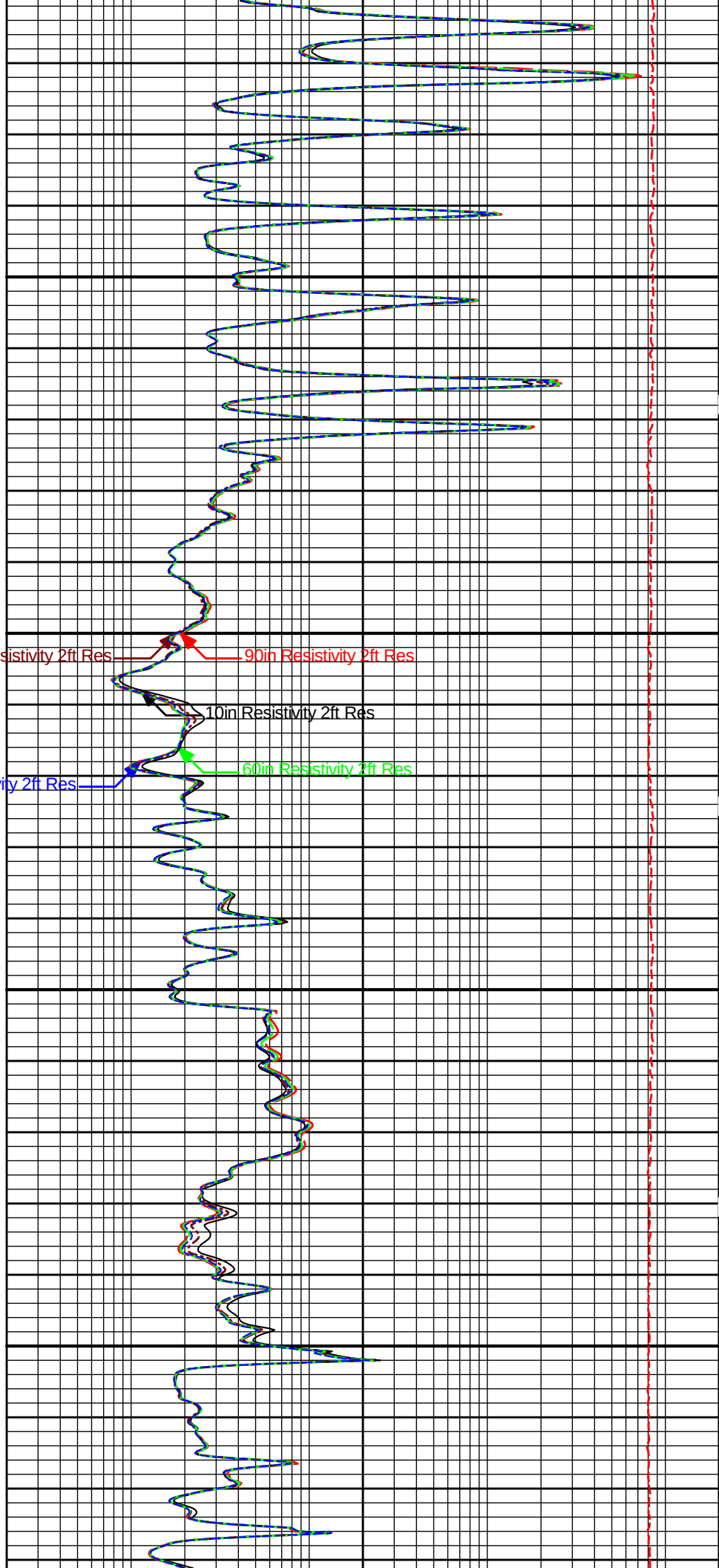


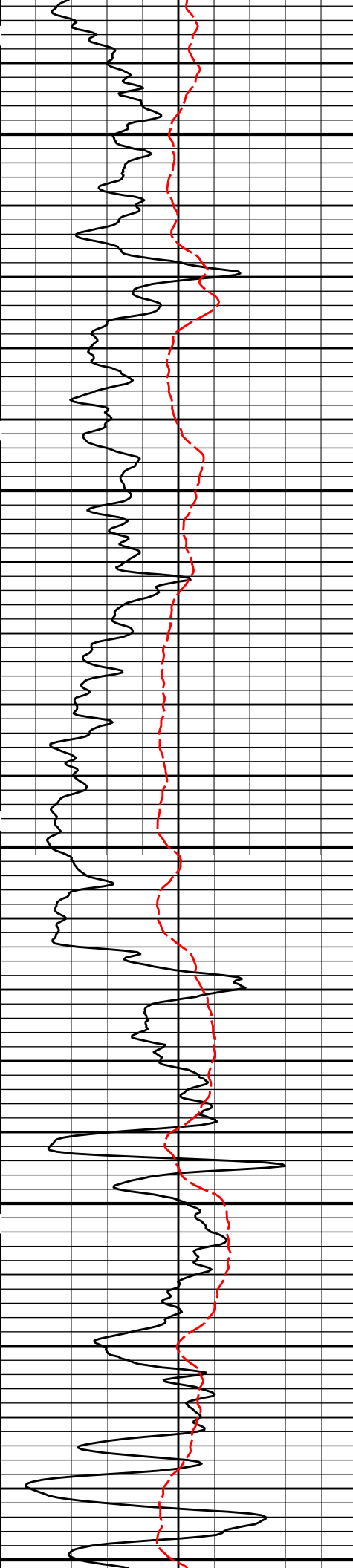


1800

20in Resistivity 2ft Res
90in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
30in Resistivity 2ft Res

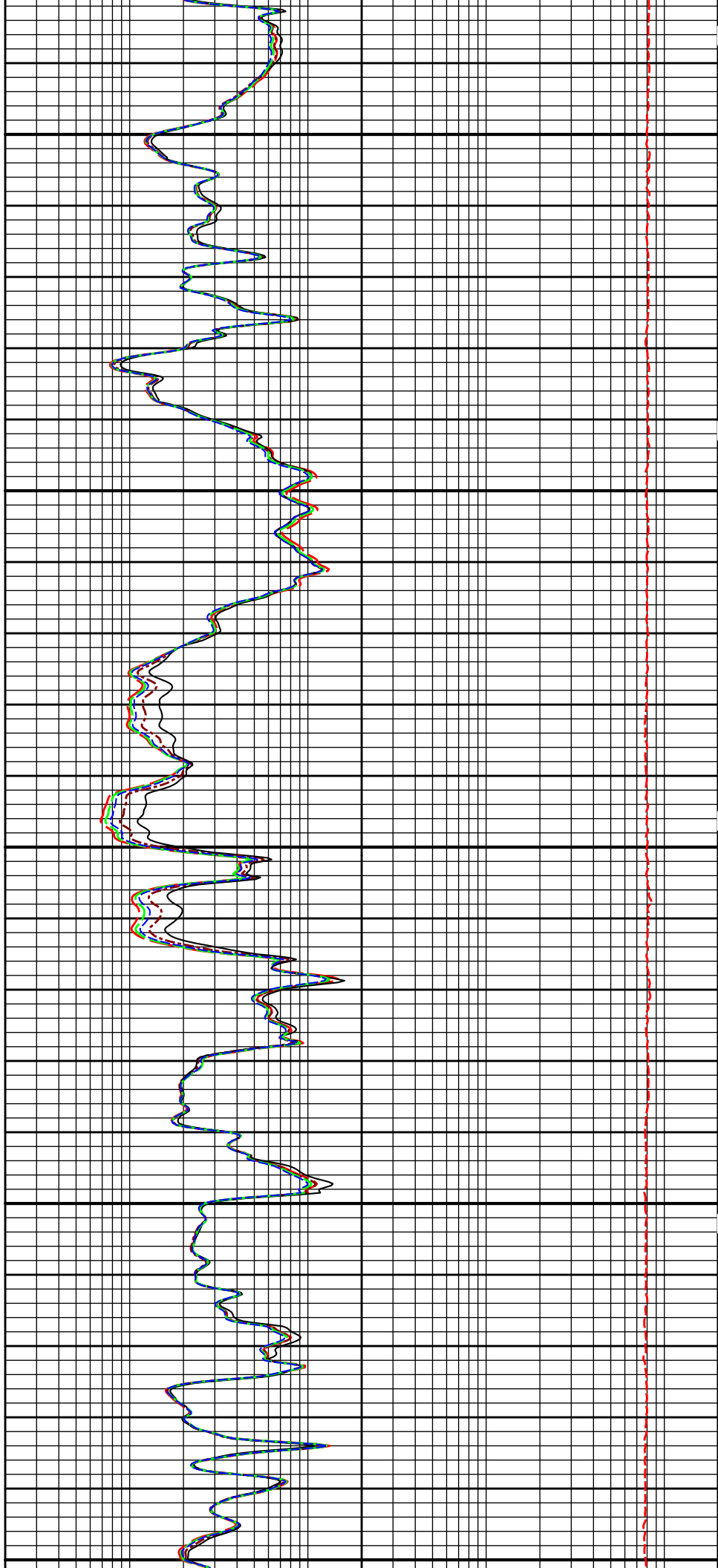
1900

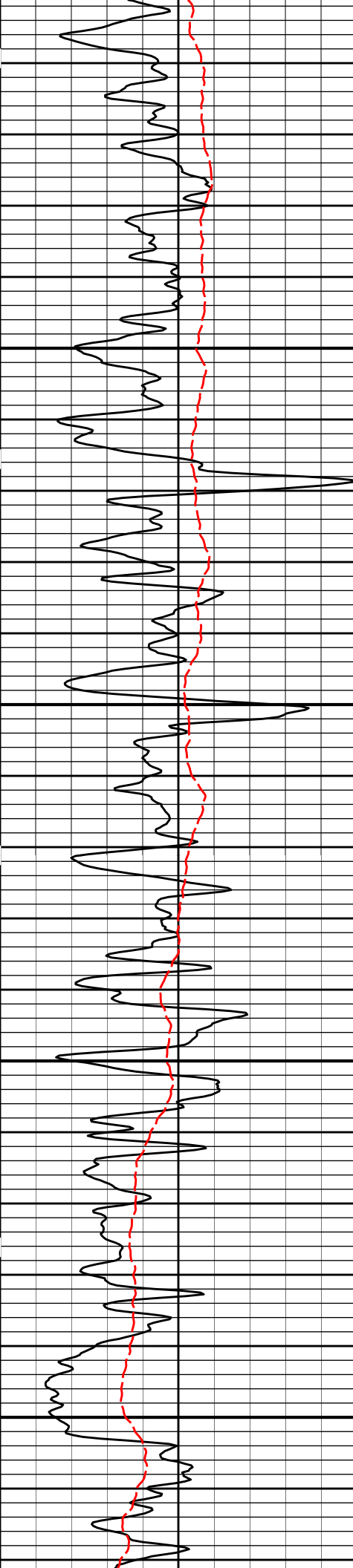




2000

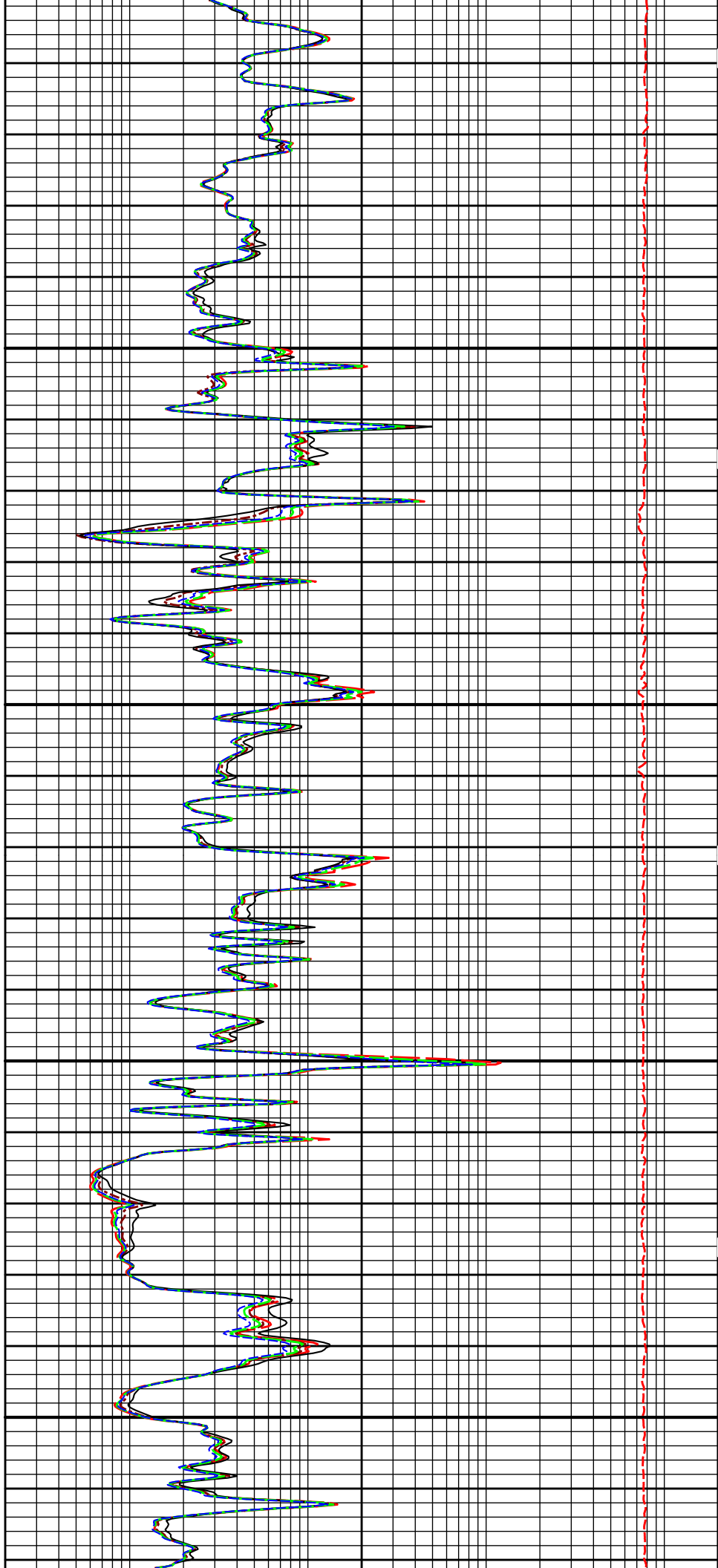
2100

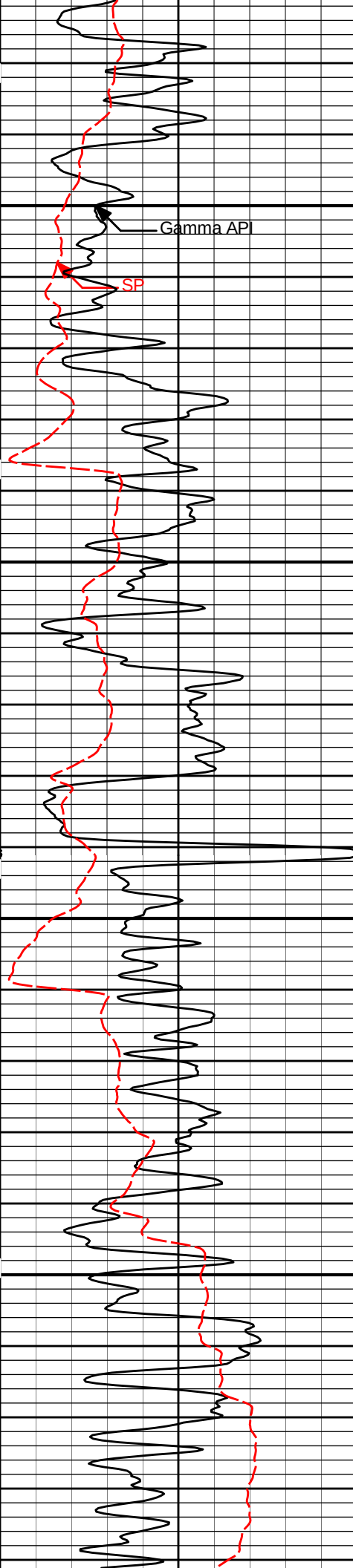




2200

2300



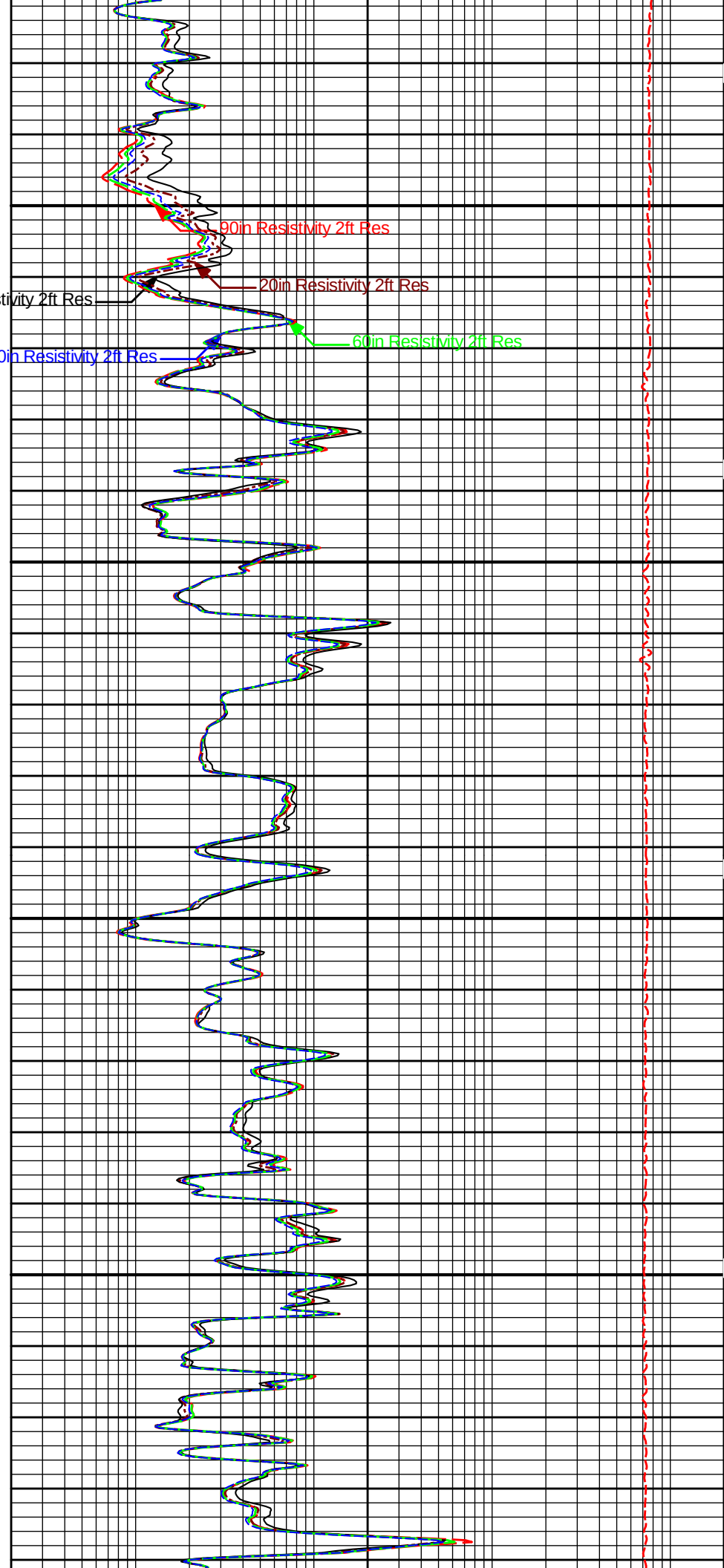


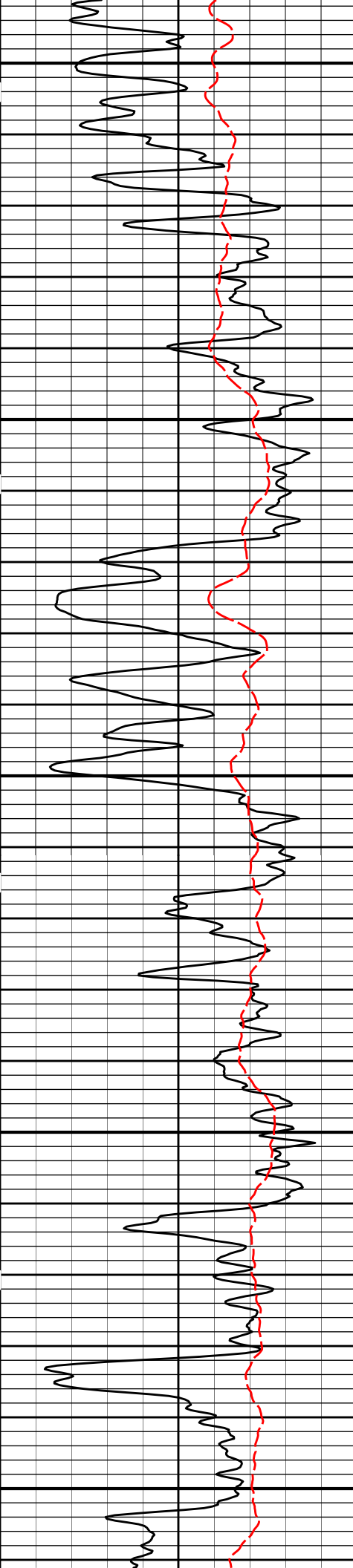
2400

10in Resistivity 2ft Res

30in Resistivity 2ft Res

2500

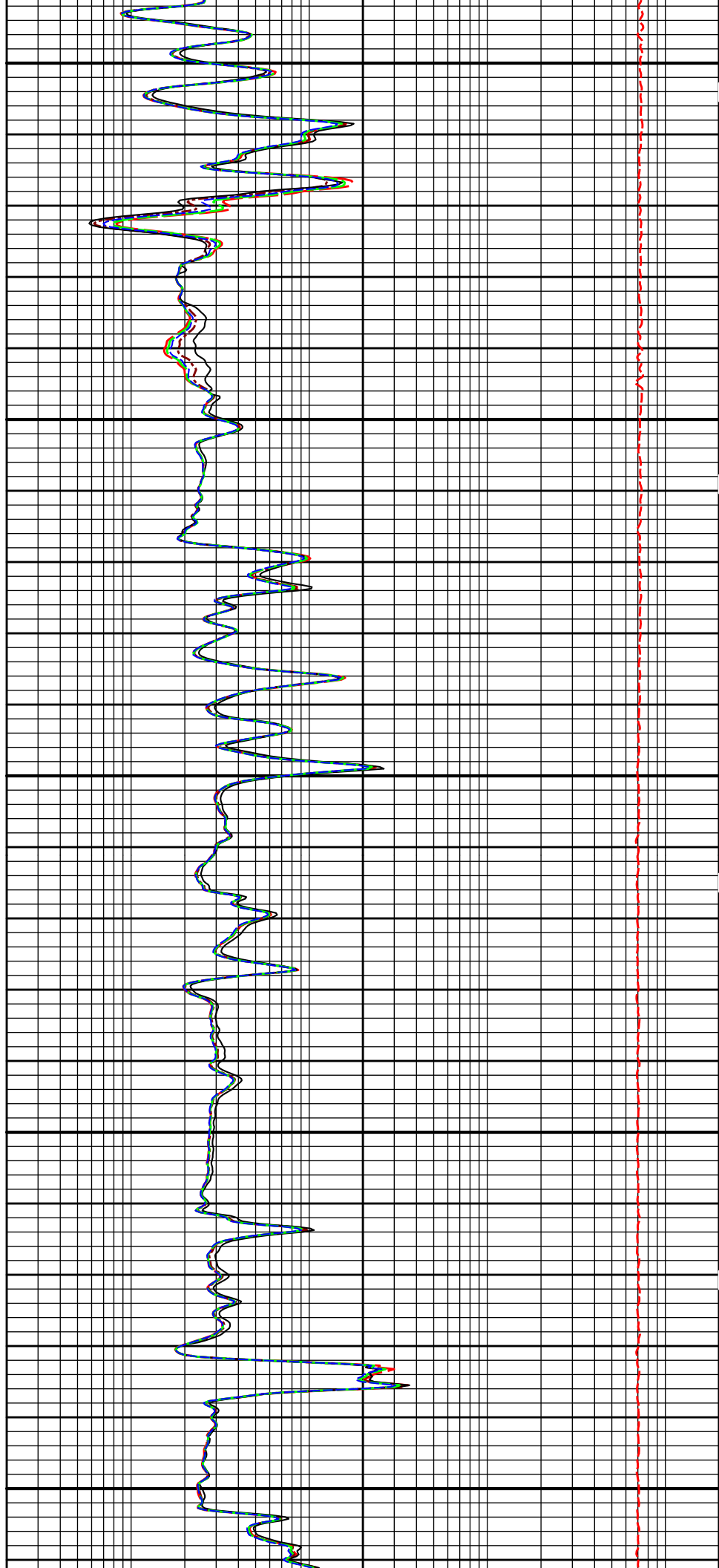


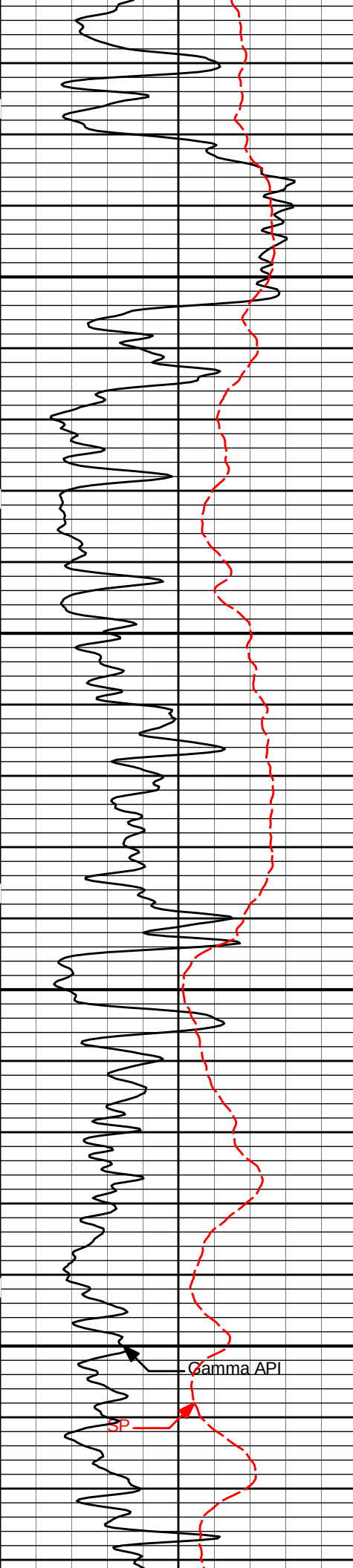


2600

2700

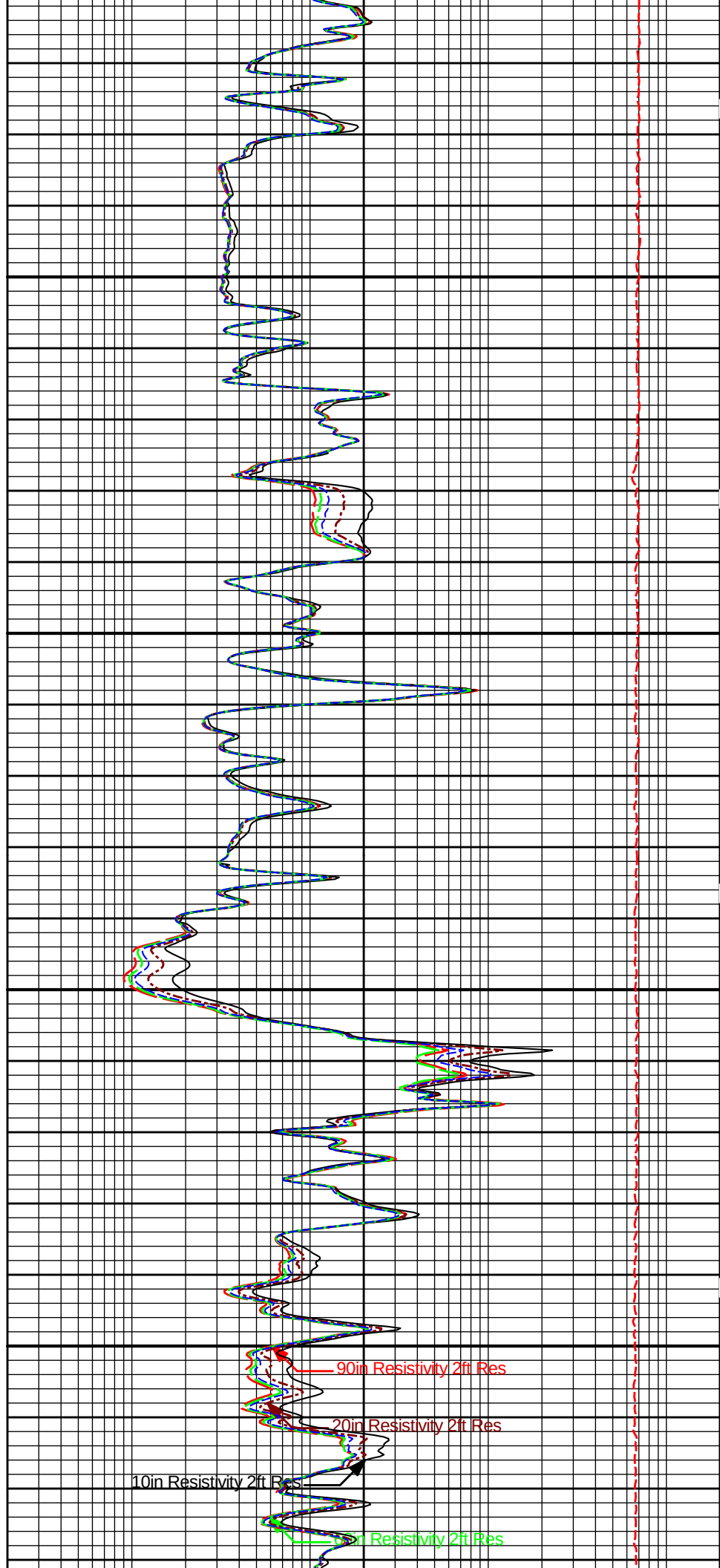
2800





2900

3000



90in Resistivity 2ft Res

20in Resistivity 2ft Res

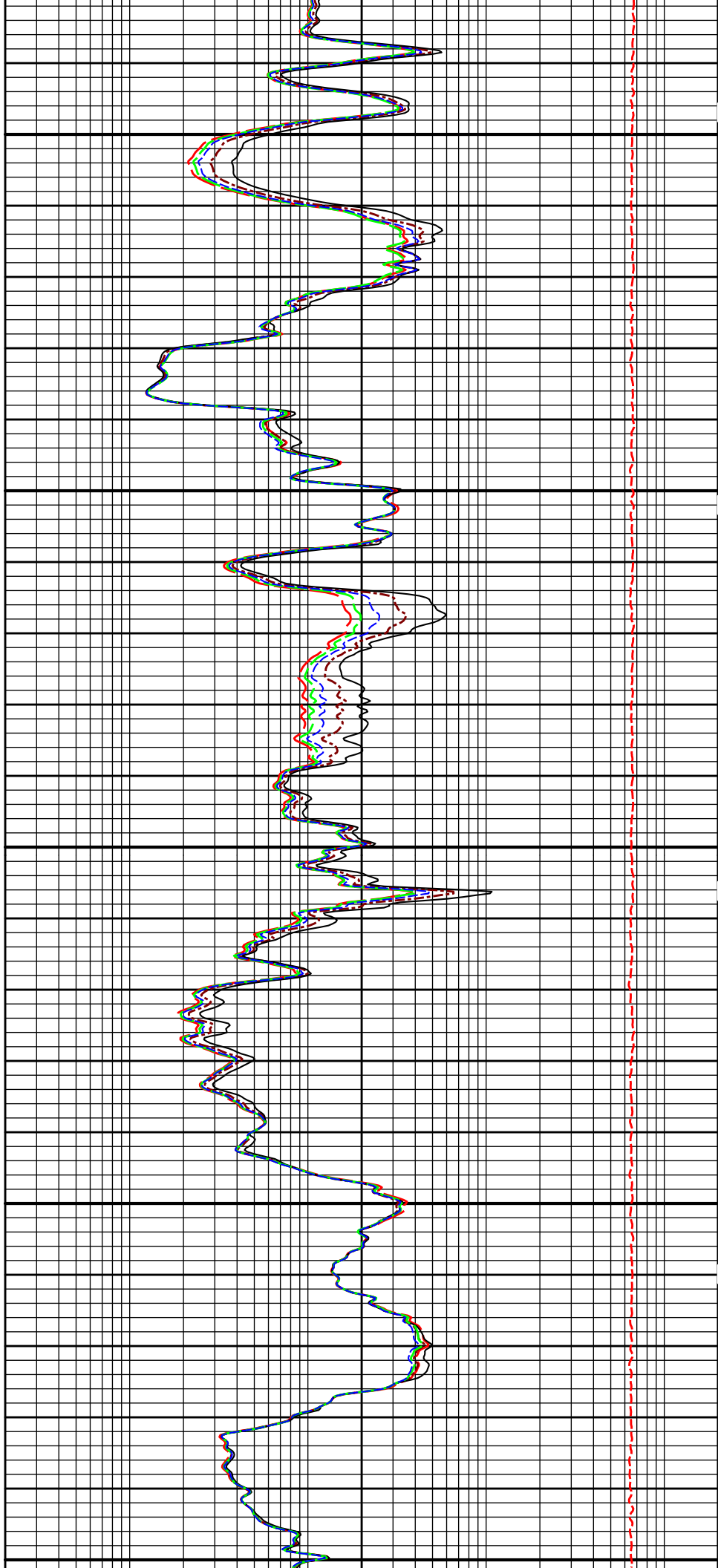
10in Resistivity 2ft Res

60in Resistivity 2ft Res



3100

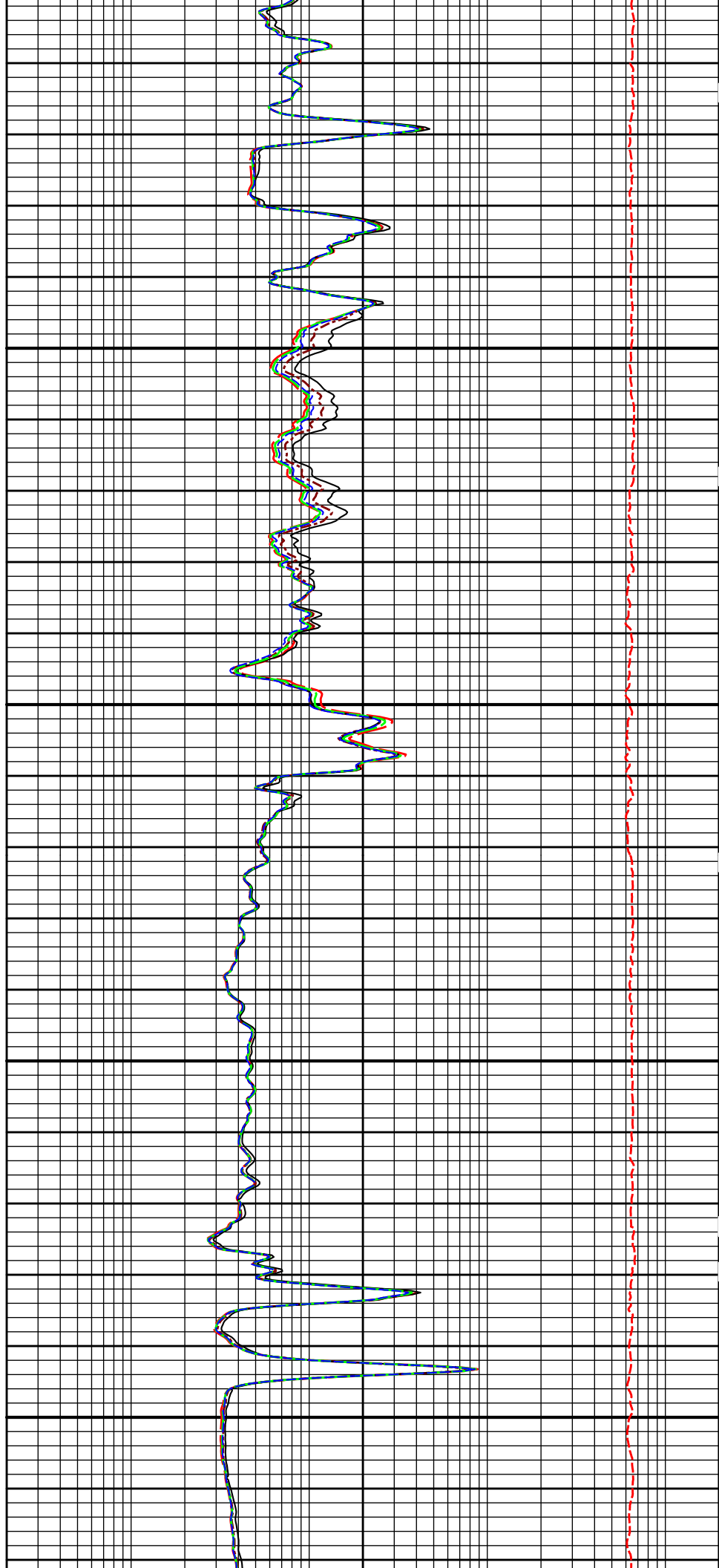
3200

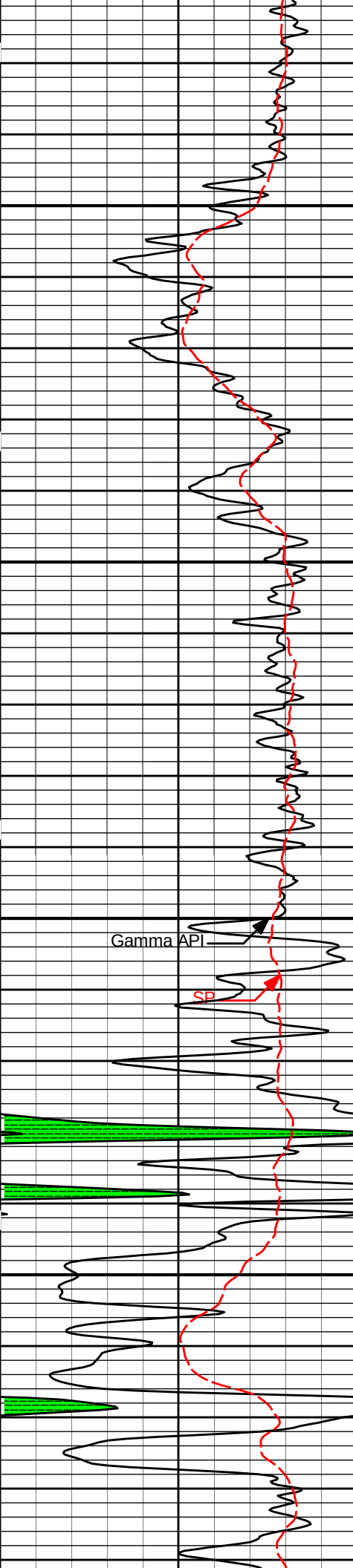




3300

3400



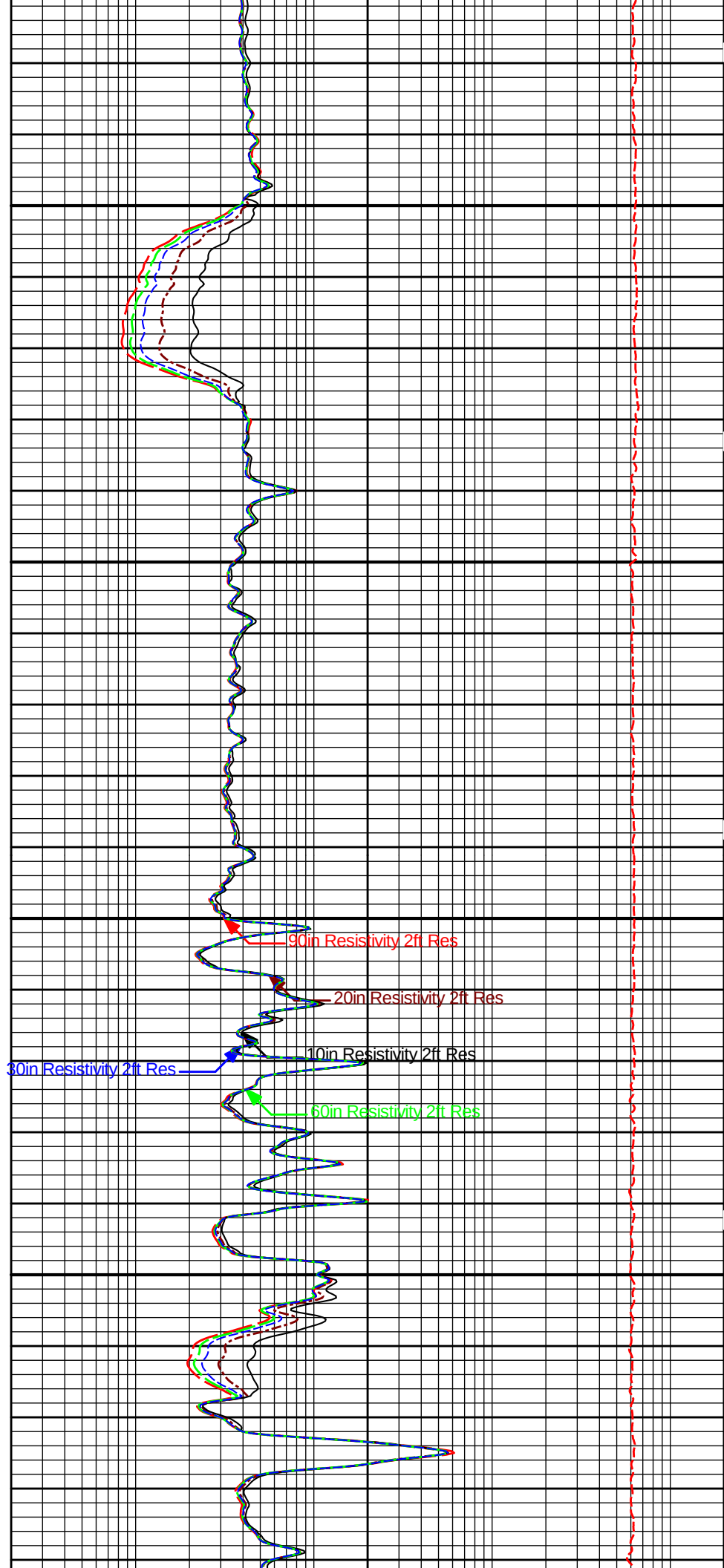


3500

3600

Gamma API

SP



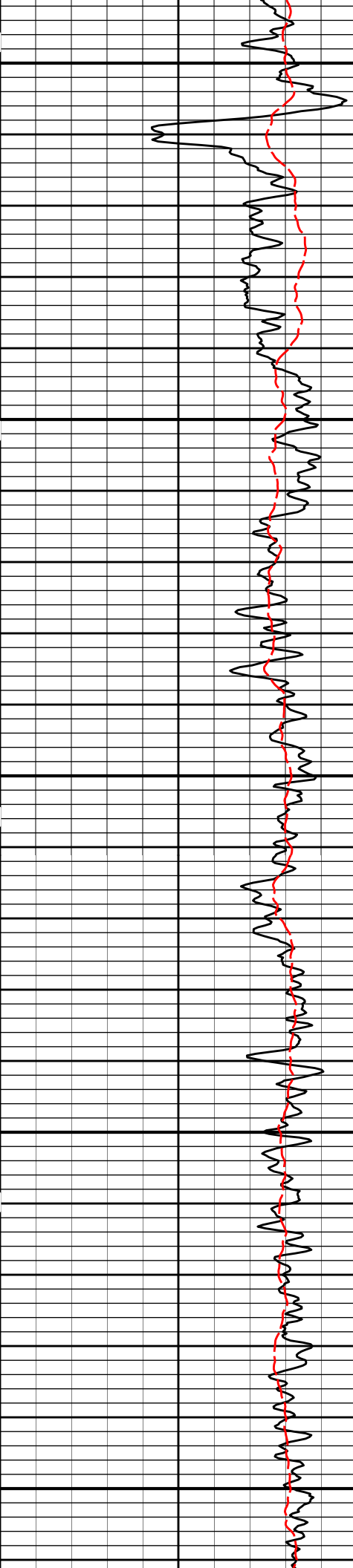
90in Resistivity 2ft Res

20in Resistivity 2ft Res

10in Resistivity 2ft Res

60in Resistivity 2ft Res

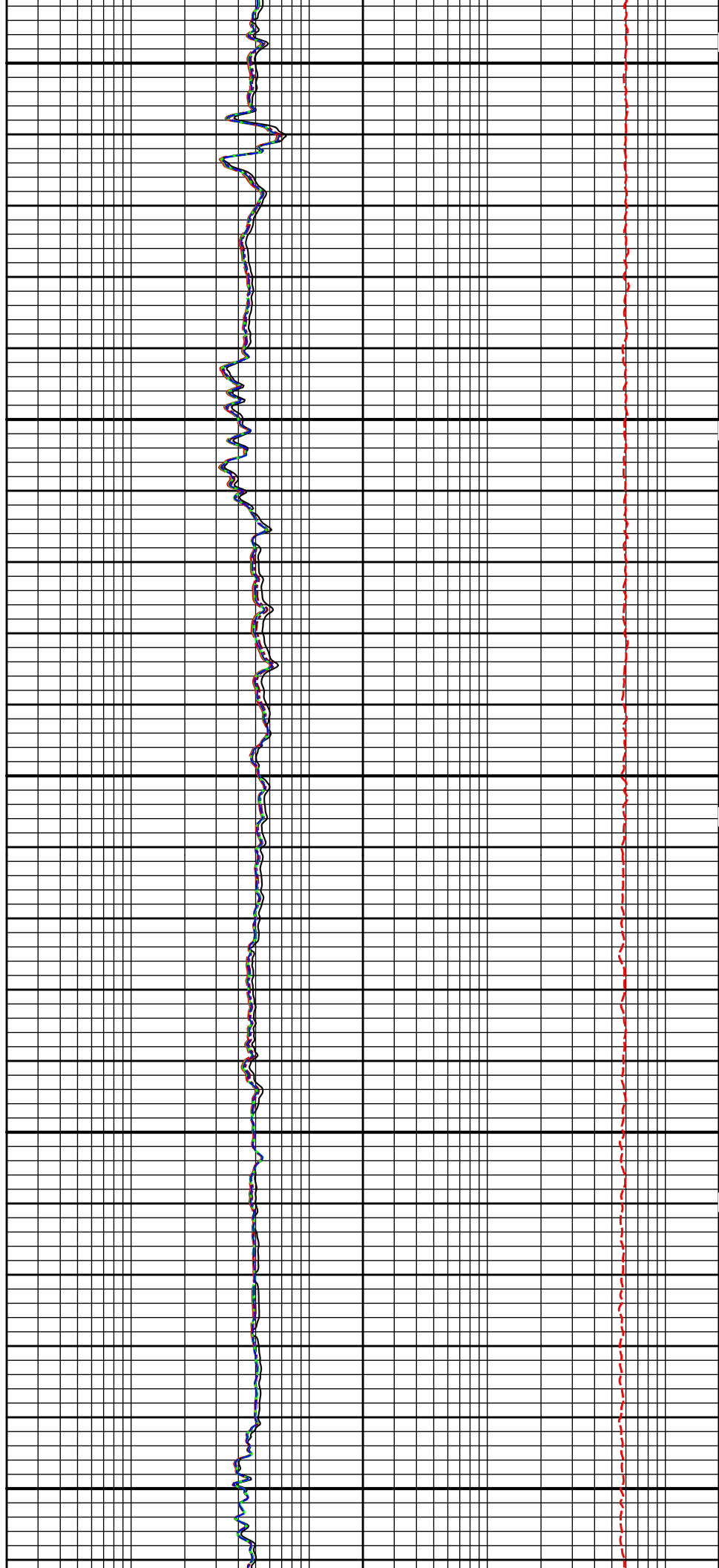
30in Resistivity 2ft Res

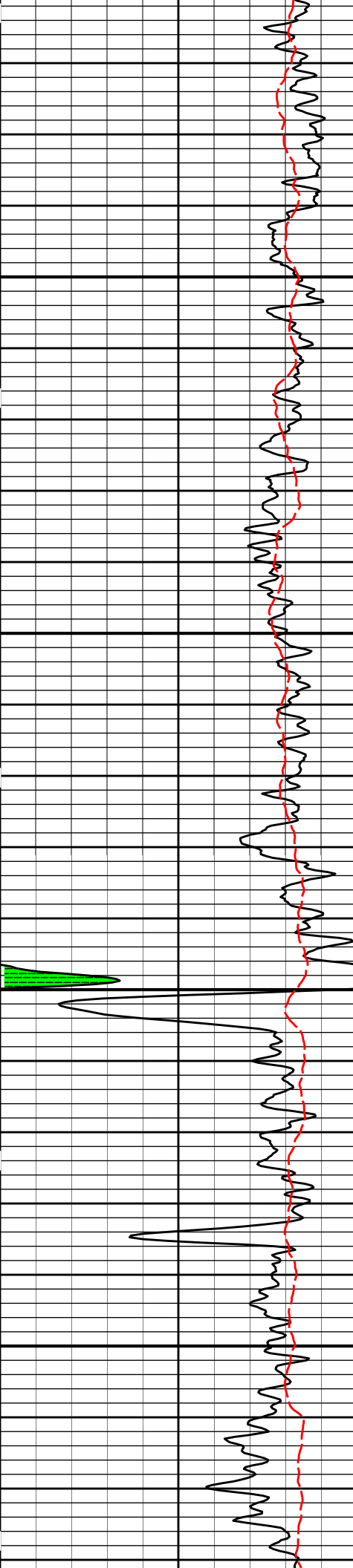


3700

3800

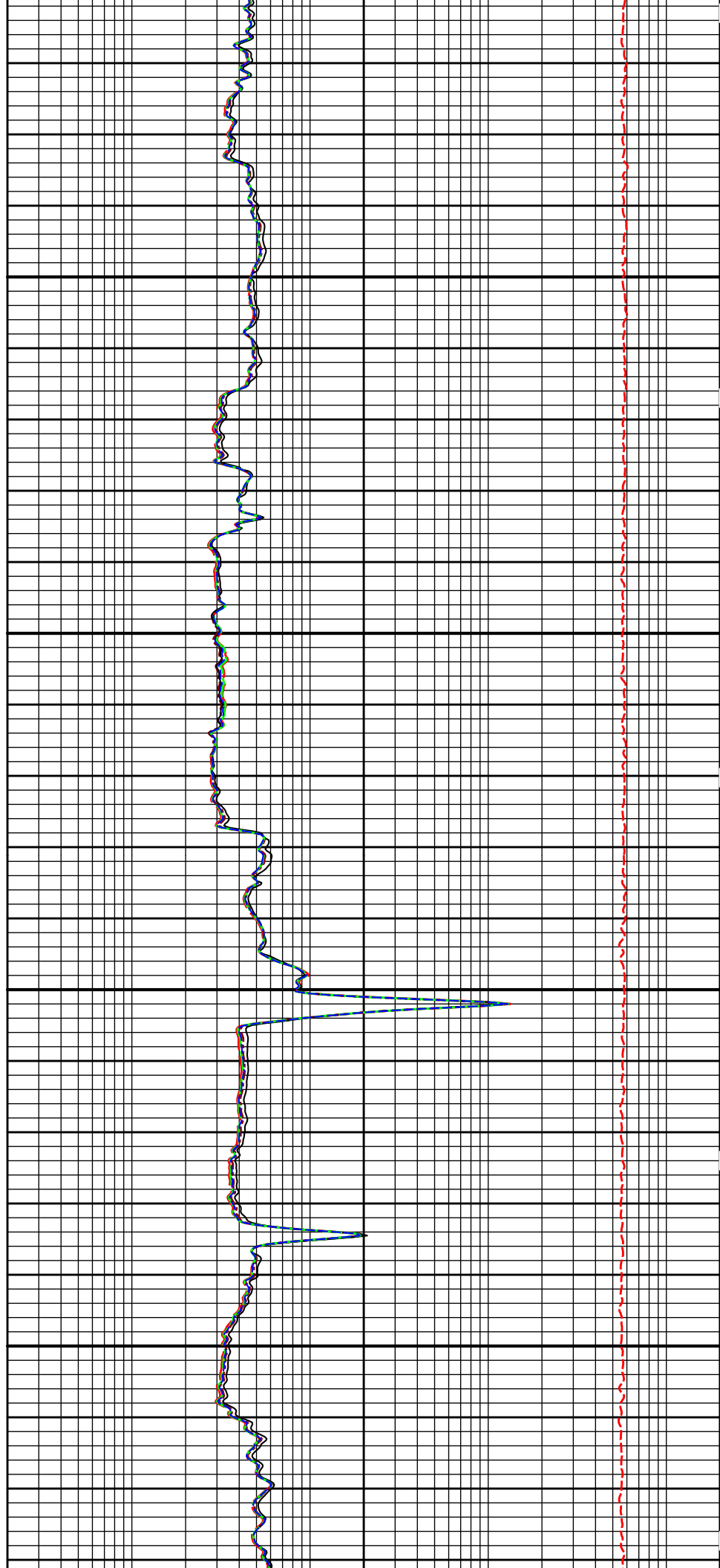
3900

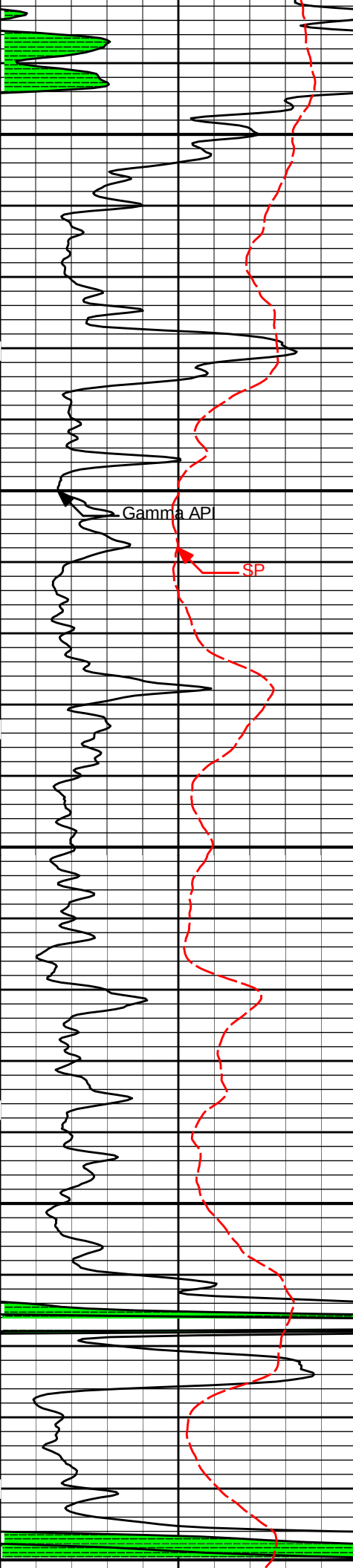




4000

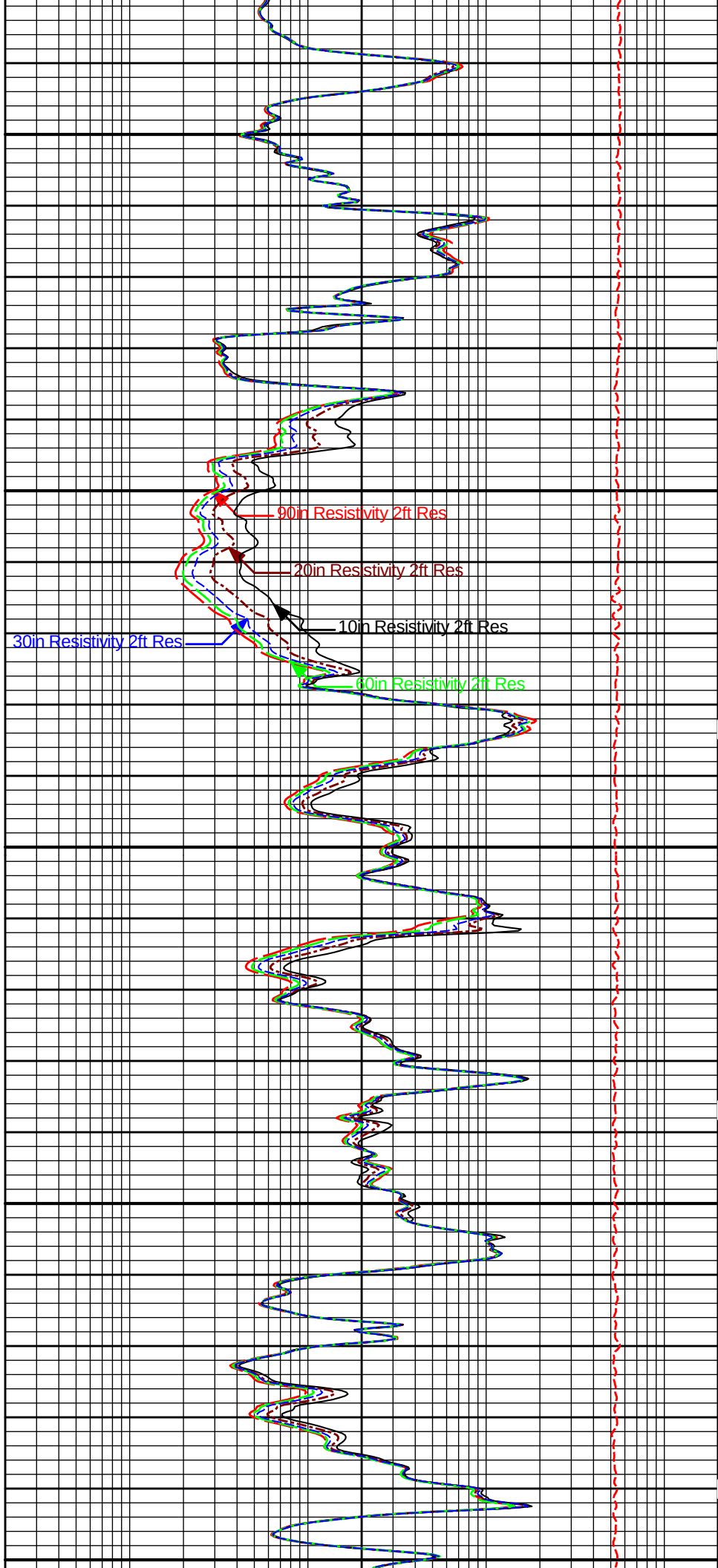
4100

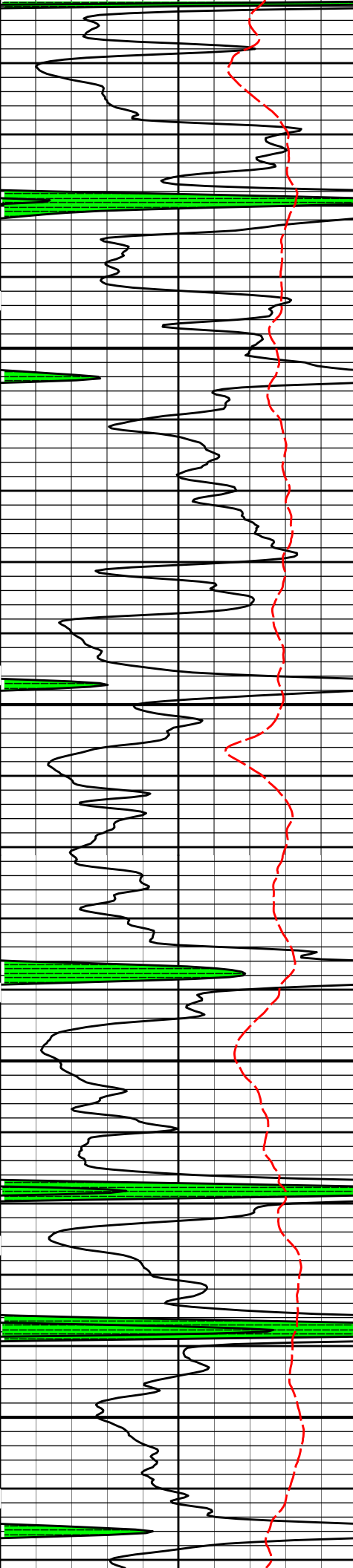




4200

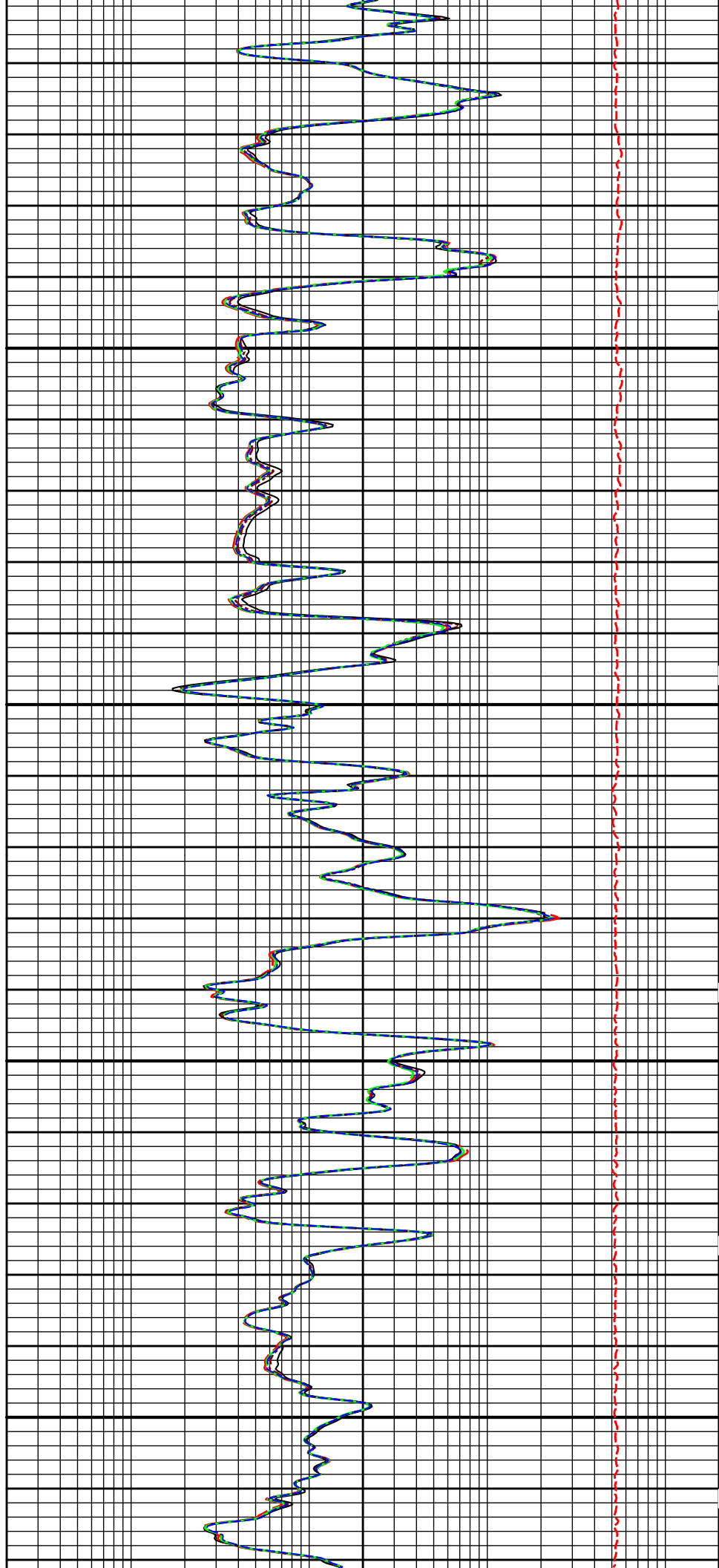
4300





4400

4500





4600

4700



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

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

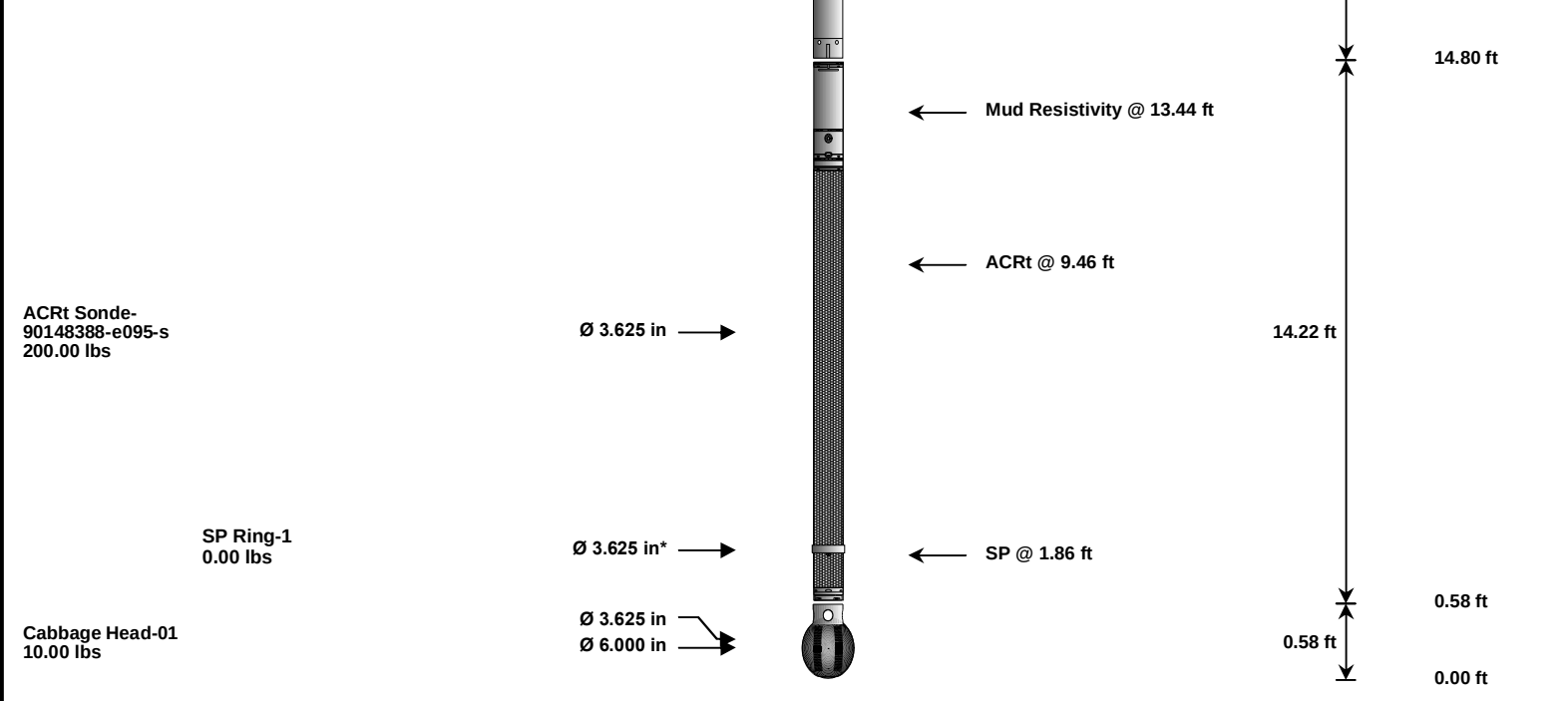
Plot Time: 11-May-12 15:34:20
Plot Range: 205 ft to 4751.5 ft
Data: THOM_C_3_12\Well Based\CASING\
Plot File: \\-LOCAL-\\THOM_C_3_12\0001 GTET-DSNT-SDLT-ACRT\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-336-I 37.50 lbs		Ø 2.750 in →		← Temperature @ 50.85 ft	3.03 ft	51.88 ft
						48.85 ft
GTET-11021039 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	
						40.33 ft
DSNT-11023947 174.00 lbs	DSN Decentralizer- PROT01 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- I947M315P774 360.00 lbs	SDLT Pad-I947M315P774 65.00 lbs Microlog Pad- I947M315P774 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 22.83 ft SDL Caliper @ 22.65 ft SDL @ 22.64 ft	10.81 ft	
						19.83 ft
ACRt Instrument- 095 50.00 lbs		Ø 3.625 in →			5.03 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	336-I	37.50	3.03	48.85	300.00
GTET	Gamma Telemetry Tool	11021039	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	11023947	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	PROT01	6.60	5.13	* 33.97	300.00
SDLT	Spectral Density Tool	I947M315P774	360.00	10.81	19.83	60.00
MICP	Microlog Pad	I947M315P774	8.00	1.00	* 22.33	60.00
SDLP	Density Insite Pad	I947M315P774	65.00	2.55	* 22.04	60.00
ACRt	Array Compensated True Resistivity Instrument Section	095	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity	90148388-e095-s	200.00	14.22	0.58	300.00
SP	SP Ring	1	0.00	0.25	* 1.86	300.00
CBHD	Cabbage Head	01	10.00	0.58	0.00	300.00
Total			1,076.10	51.88		
* Not included in Total Length and Length Accumulation.						
Data: THOM_C_3_1210001 GTET-DSNT-SDLT-ACRT					IDLE Date: 11-May-12 12:55:47	

HALLIBURTON	
CALIBRATION REPORT	
NATURAL GAMMA RAY TOOL SHOP CALIBRATION	
Tool Name: GTET - 11021039	Reference Calibration Date: 24-Feb-12 13:14:31
Engineer: BOMAR	Calibration Date: 05-Apr-12 15:06:59
Software Version: WL INSITE R3.4.2 (Build 2)	Calibration Version: 1
Calibrator Source S/N: MP051807-02	
Calibrator API Reference:234.00 api	
Equivalent Calibrator API Reference:238.1 api	
Measurement	Measured Calibrated Units
Background	28.9 31.5 api
Background + Calibrator	247.4 269.6 api
Calibrator	218.5 238.1 api
ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION	
Tool Name: ACRT Sonde - 90148388-e095-s	Reference Calibration Date: 03-Jan-12 10:32:19
Engineer: HOEKAMP	Calibration Date: 05-Apr-12 10:07:44

Engineer: HOPKAMP		Software Version: WL INSITE R3.4.2 (Build 2)		Calibration Date: 03-Apr-12 10:07:44		Calibration Version: 1			
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0407	1.05	0.95	1.0202	1.05	0.95	1.0097	1.05
A2 (50")	0.95	1.0426	1.05	0.95	1.0224	1.05	0.95	1.0143	1.05
A3 (29")	0.95	1.0472	1.05	0.95	1.0255	1.05	0.95	1.0152	1.05
A4 (17")	0.95	1.0561	1.05	0.95	1.0319	1.05	0.95	1.0229	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0160	1.05	0.95	1.0055	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.0144	1.05	0.95	1.0038	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	1.559	2	-6	-4.588	-2	-8	-5.719	-2
A2 (50")	-7	1.289	-1	-6	-2.900	-2	-7	-5.669	-2
A3 (29")	-27	-13.036	-9	-9	-3.871	-3	-7	-4.030	-1
A4 (17")	-180	-95.001	-60	-45	-29.016	-15	-39	-24.719	-13
A5 (10")	N/A	N/A	N/A	-150	-108.311	-50	-80	-49.470	-10
A6 (6")	N/A	N/A	N/A	175	328.534	525	90	165.861	270
TRANSMITTER CURRENT GAIN						R-MUD VERIFICATION			
Signal	Lower	R	Upper			Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.8545	1.3			Mud Cell	0.95	0.996	1.05
36K	1.0	1.3171	2.0						
72K	1.0	1.6050	2.0						
CALIBRATION SUMMARY									
Sensor		Shop	Field	Post	Difference	Tolerance		Units	
GTET-11021039									
Gamma Ray Calibrator		238.1	-----	-----	0.0	+/- 9.00		api	
ACRt Sonde-90148388-e095-s									
Mud Cell		0.996	-----	-----	0.000	-----		ohm-m	
Data: THOM_C_3_12\0001 GTET-DSNT-SDLT-ACRT\IDLE									
Date: 11-May-12 13:09:24									
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			9.000		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		%	

2.4. THOM C 2 10/0001 STEEL BONE CRILE ACCEPTABLE

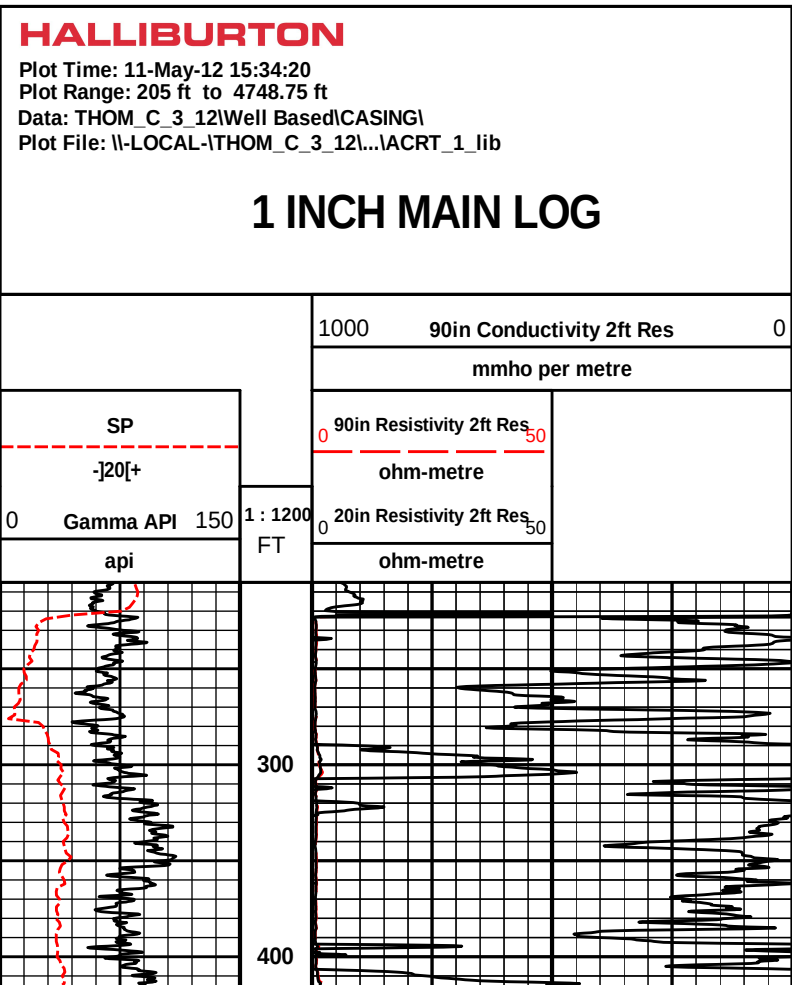
HALLIBURTON**INPUTS, DELAYS AND FILTERS TABLE**

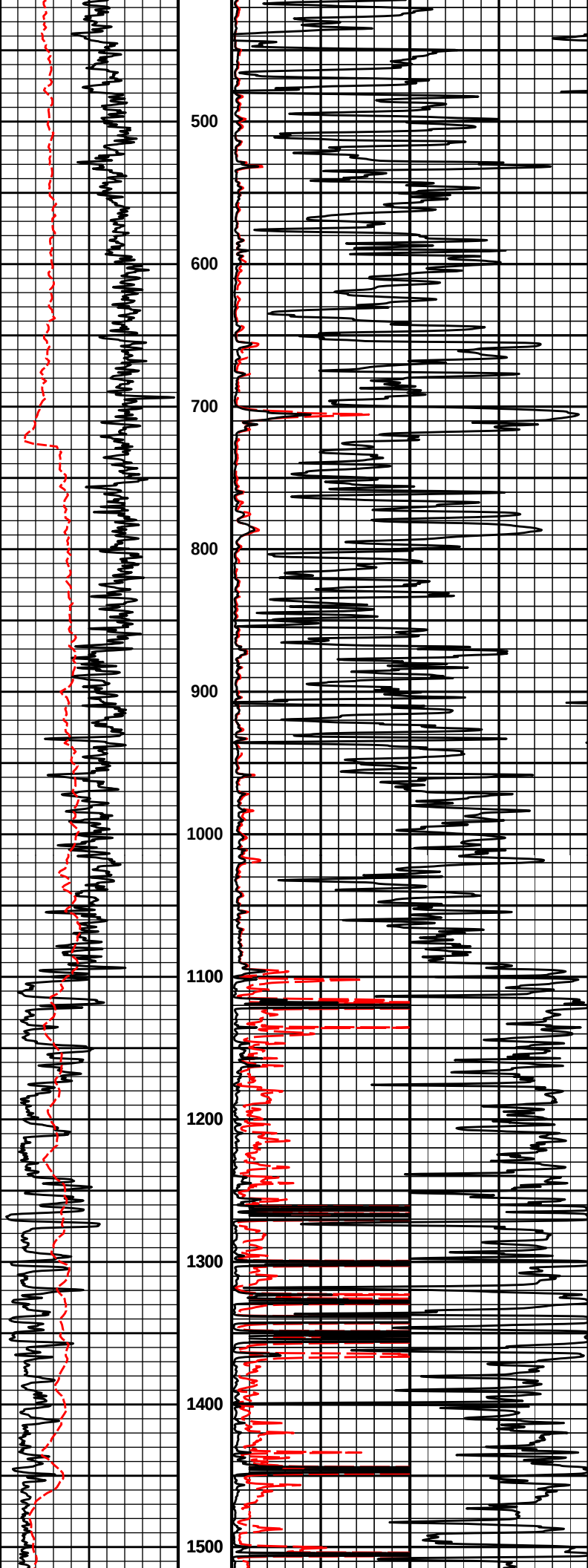
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray 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

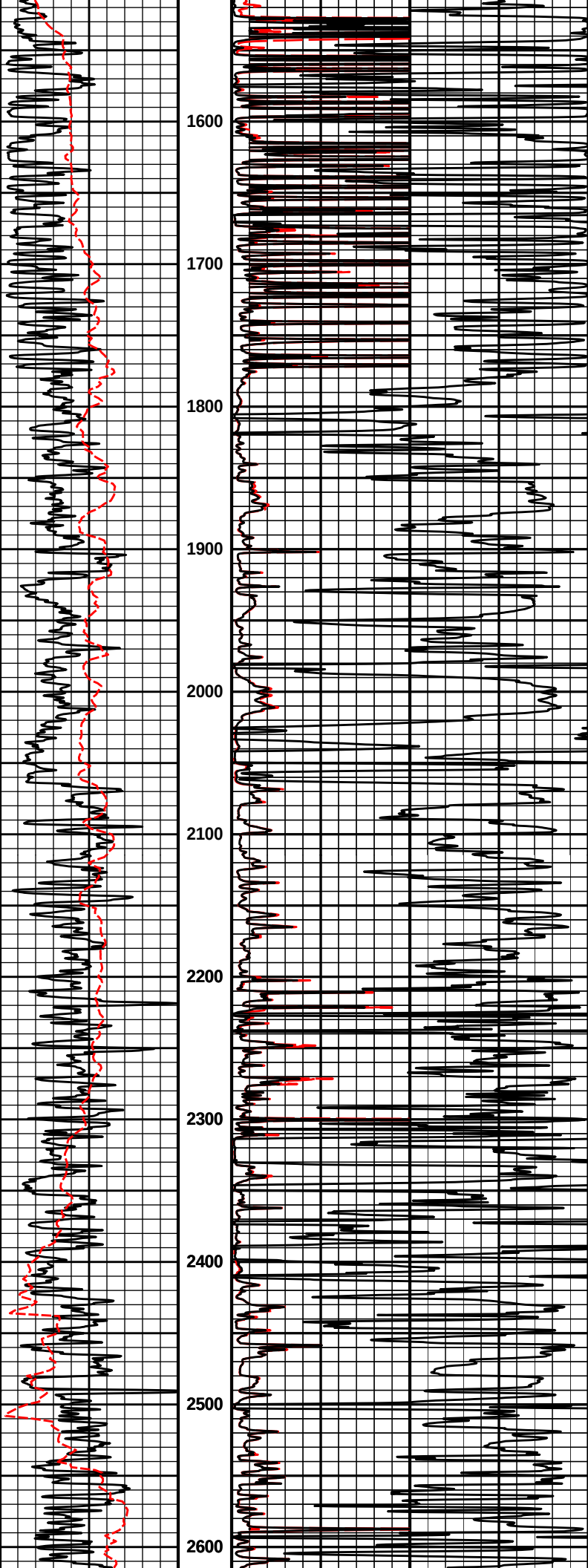
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	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 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

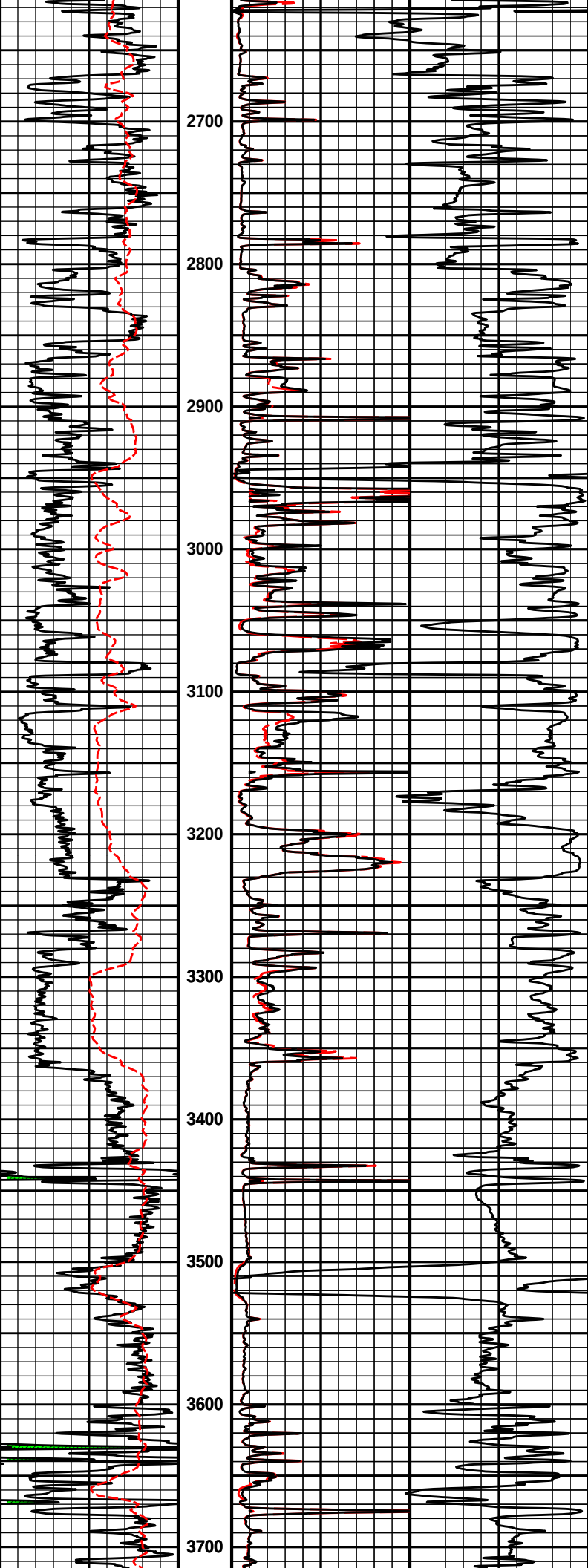
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	
Microlog Pad				
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
SP Ring				
PLTC	Plot Control Mask	1.86	NO	
SP	Spontaneous Potential	1.86	BLK	1.250
SPR	Raw Spontaneous Potential	1.86	NO	
SPO	Spontaneous Potential Offset	1.86	NO	
Data: THOM_C_3_12\0001 GTET-DSNT-SDLT-ACRT\IDLE			Date: 11-May-12 12:56:23	

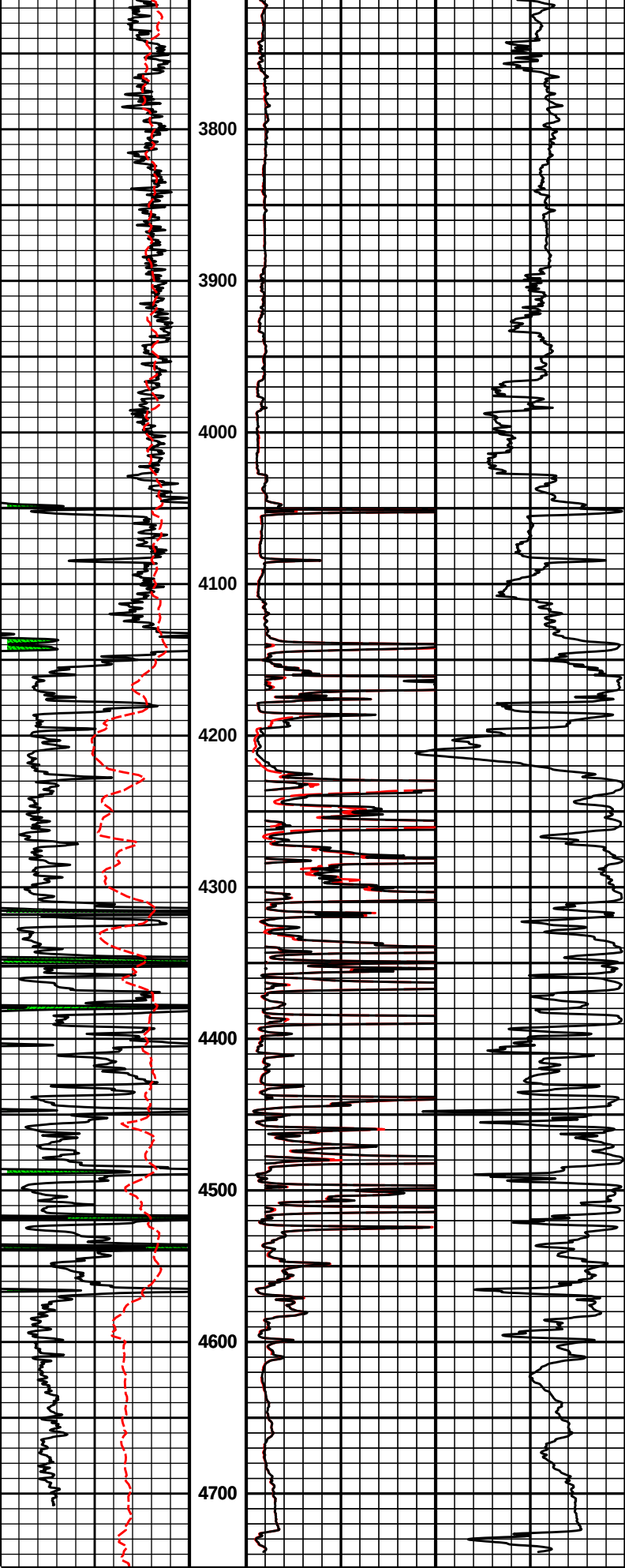
COMPANY	VAL ENERGY INC.		
WELL	THOM C 3-12		
FIELD	UNKNOWN		
COUNTY	BARBER	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	











0	Gamma API	150	1 : 1200	0	20in Resistivity 2ft Res	50
	api		FT		ohm-metre	

SP		090in Resistivity 2ft Res50	
-]20[+		ohm-metre	
		1000	90in Conductivity 2ft Res0
		mmho per metre	
HALLIBURTON Plot Time: 11-May-12 15:34:22 Plot Range: 205 ft to 4748.75 ft Data: THOM_C_3_12\Well Based\CASING\ Plot File: \\-LOCAL-\\THOM_C_3_12\\...\\ACRT_1.lib 1 INCH MAIN LOG			