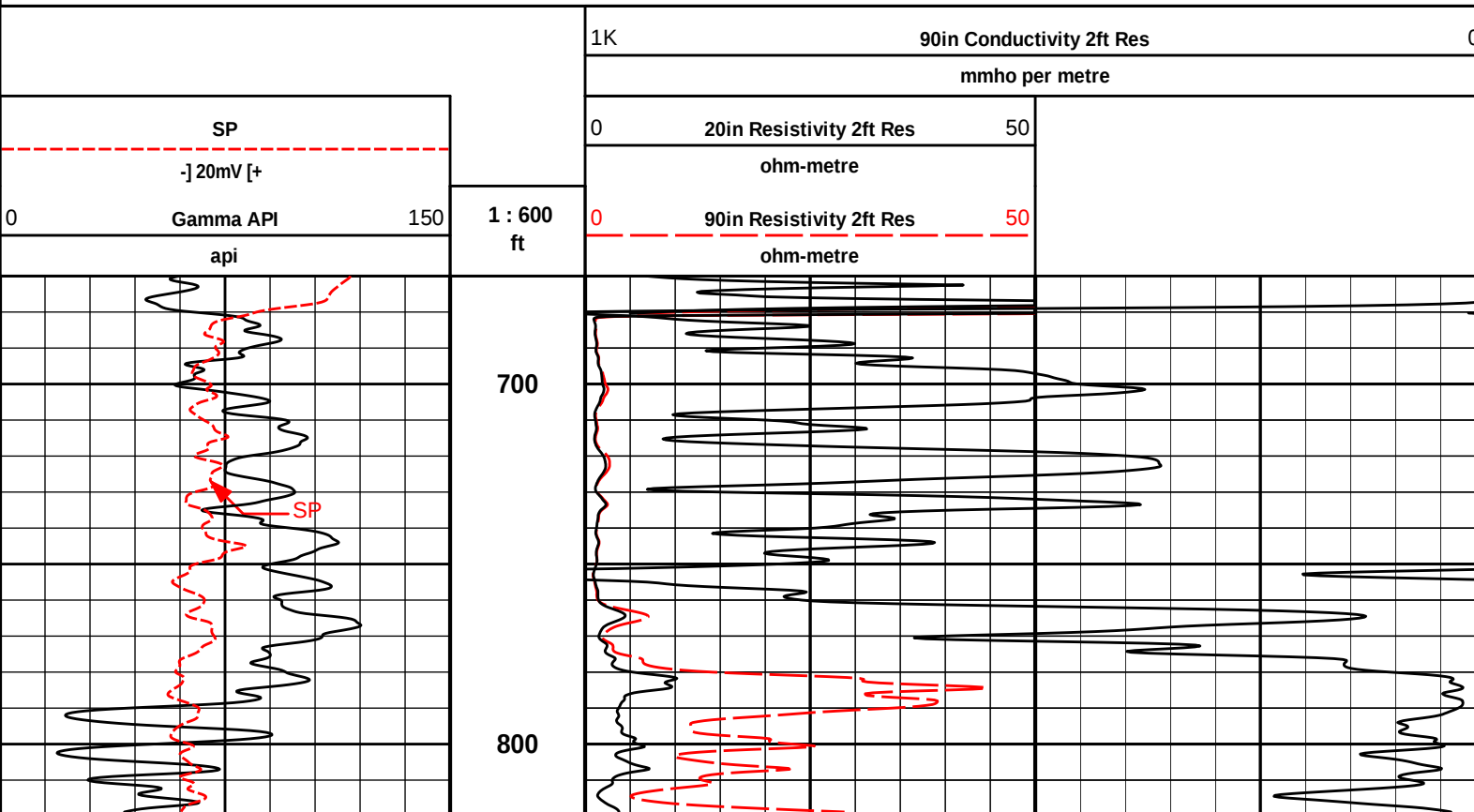


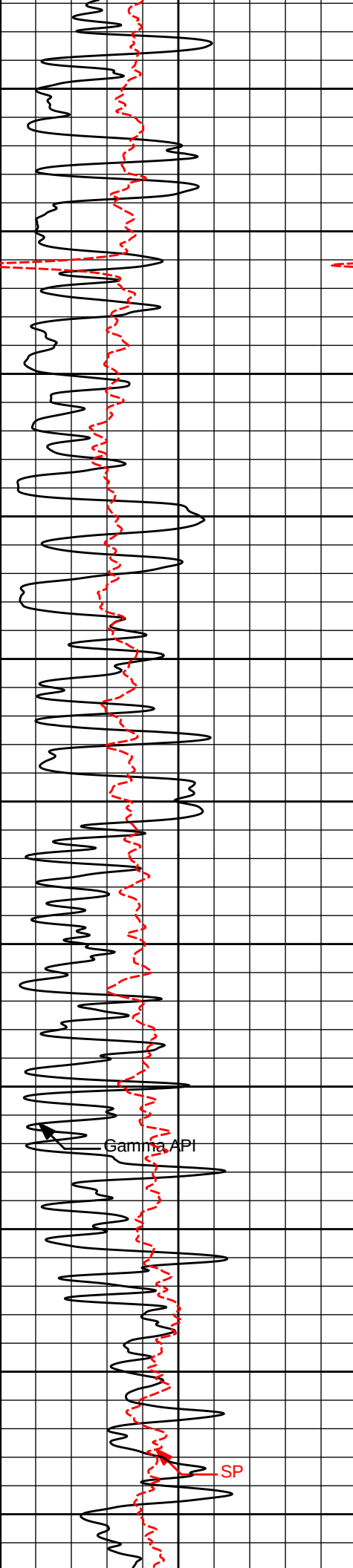
ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

Fold here

Service Ticket No.: 901879224		API Serial No.: 15-077-22110-0000		PGM Version: WL INSITE R4.2.0 (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	NA	1.5" S.O.	NA
Rmc @ Meas. Temp.		@	@		I822S202			
Source Rmf	Rmc							
Rm @ BHT		@	@					
Rmf @ BHT		@	@					
Rmc @ BHT		@	@					
EQUIPMENT DATA								
GAMMA		ACOUSTIC		DENSITY		NEUTRON		
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE	
Serial No.	11021139	Serial No.	10650265	Serial No.	10960494	Serial No.	11020487	
Model No.	GTET	Model No.	WSTT	Model No.	SDLT	Model No.	DSNT	
Diameter	3.625"	No. of Cent.	2	Diameter	4.5"	Diameter	3.625"	
Detector Model No.	T-102	Spacing	0.5'	Log Type	GAM-GAM	Log Type	NEU-NEU	
Type	SCINT			Source Type	Cs137	Source Type	Am241Be	
Length	8"	LSA [Y/N]	Y	Serial No.	5155GW	Serial No.	DSN382	
Distance to Source	18'	FWDA [Y/N]	Y	Strength	1.5 Ci	Strength	15 Ci	

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	TD	CSG	REC	0	150	30	-10	47.6	30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @								KOP @						
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 7 INCH CASING														
CHLORIDES REPORTED AT 14000 MG/L														
TODAY'S CREW: M. ALENA, S. GARLING, A. BENNETT, J. WOOD														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES: PAULS VALLEY, OK														
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														





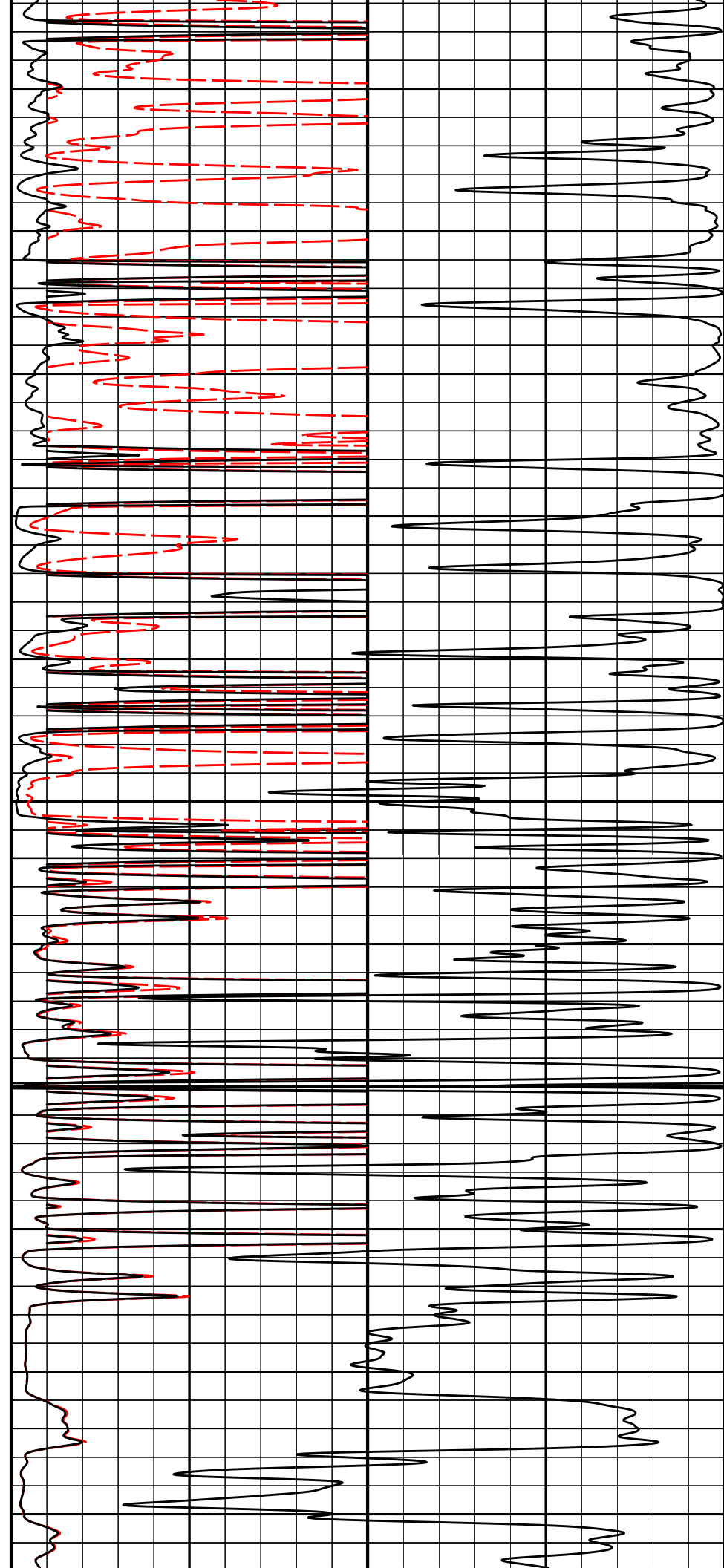
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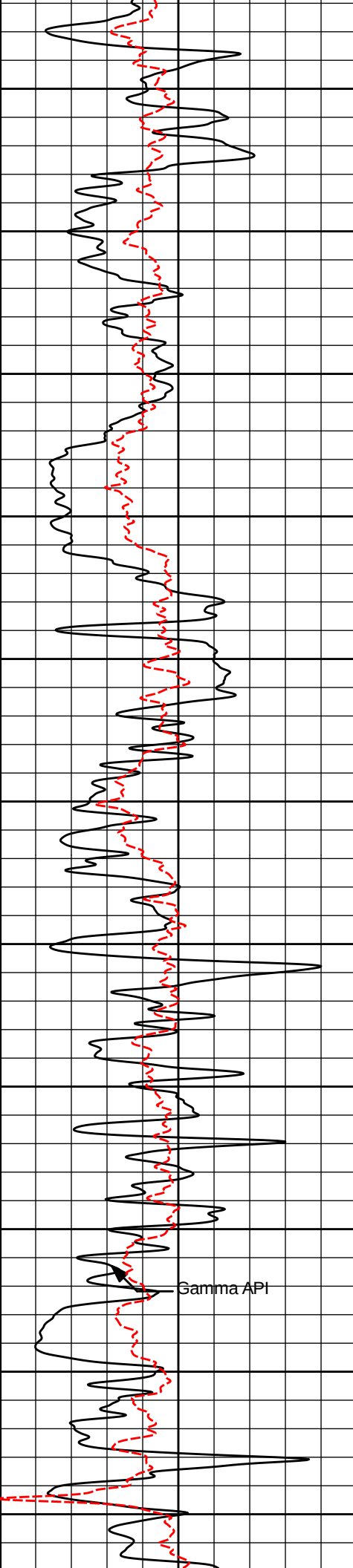
1000

1100

1200

1300





1400

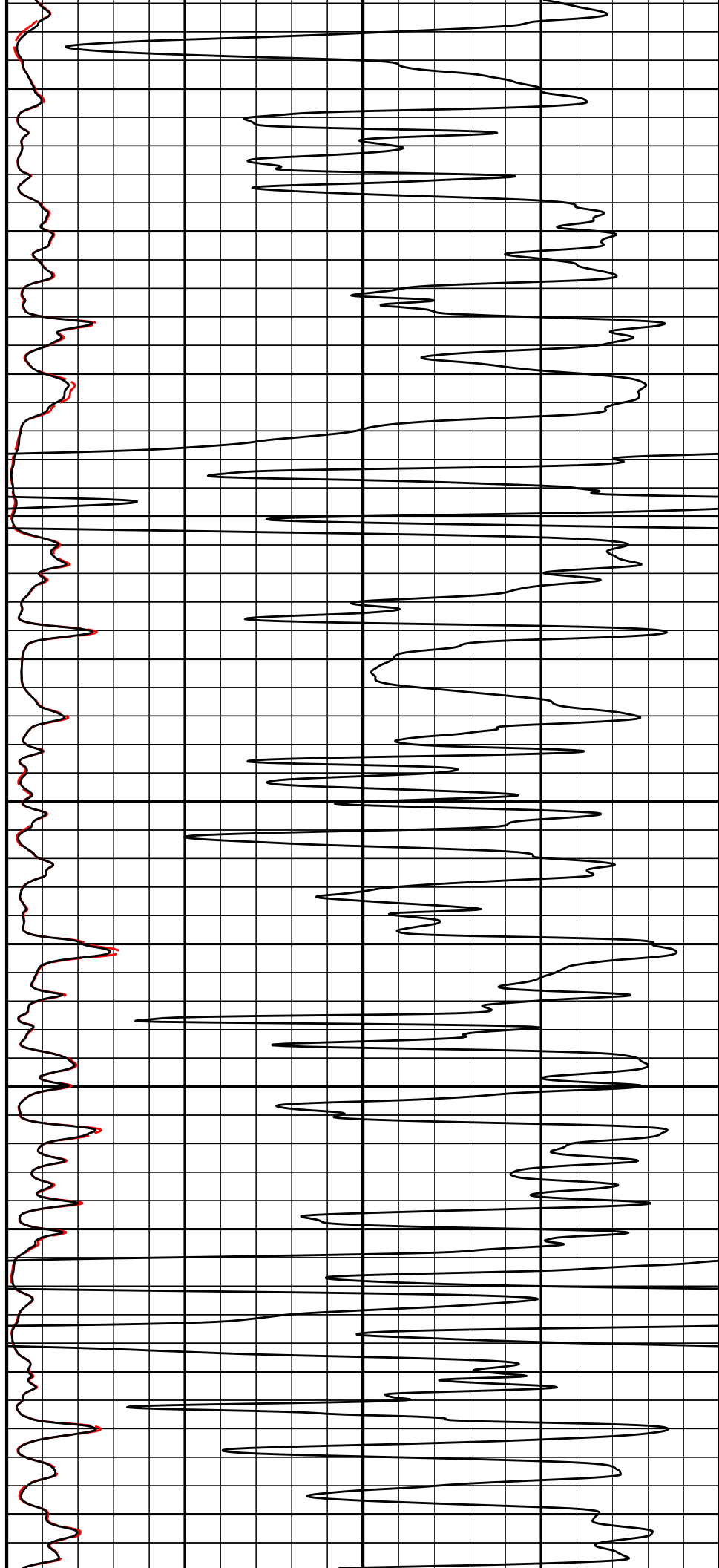
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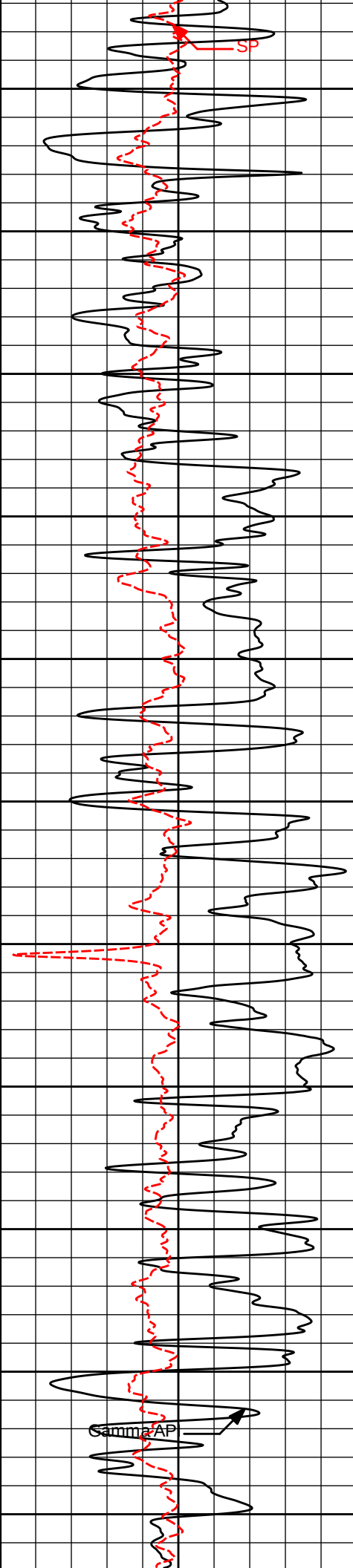
1600

1700

1800

1900





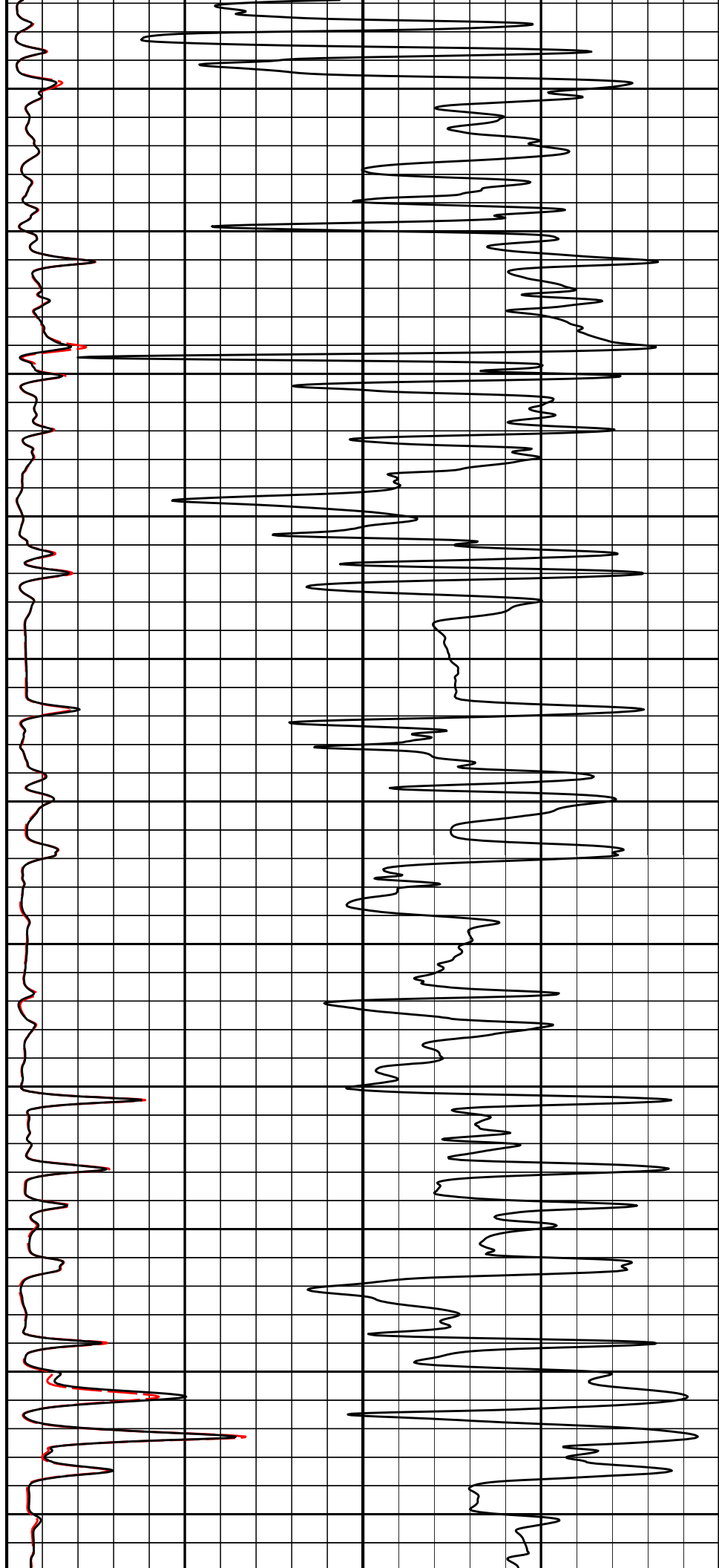
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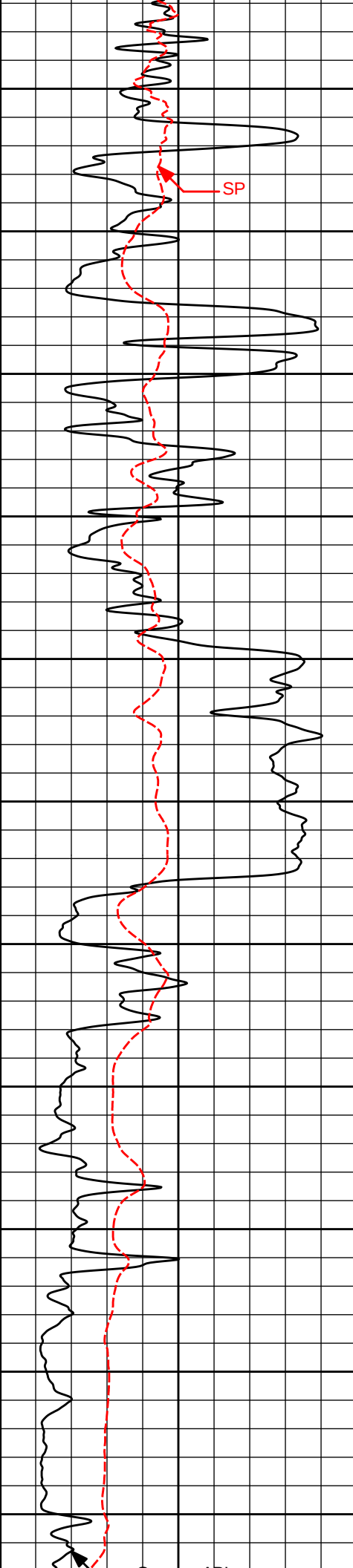
2100

2200

2300

2400





2500

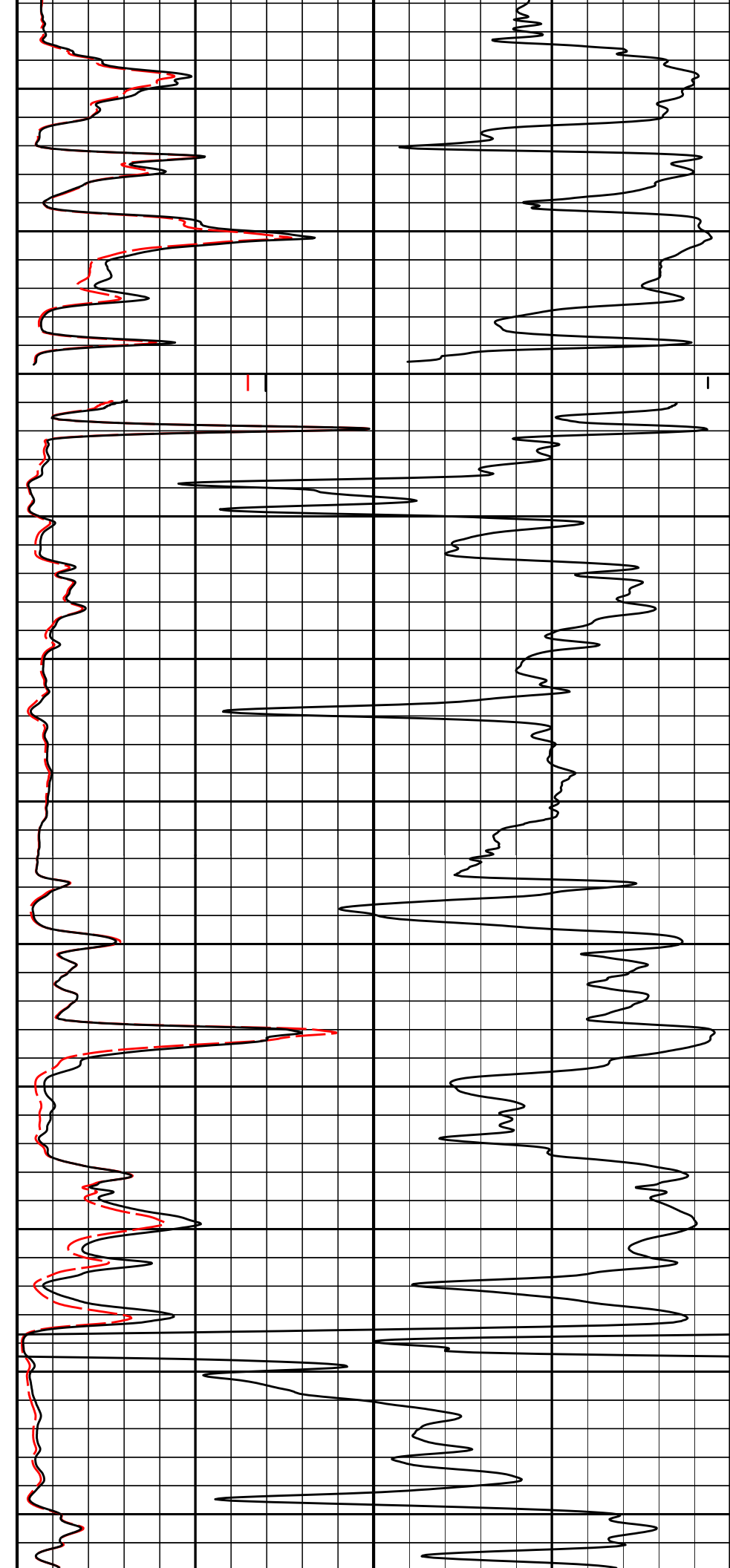
2600

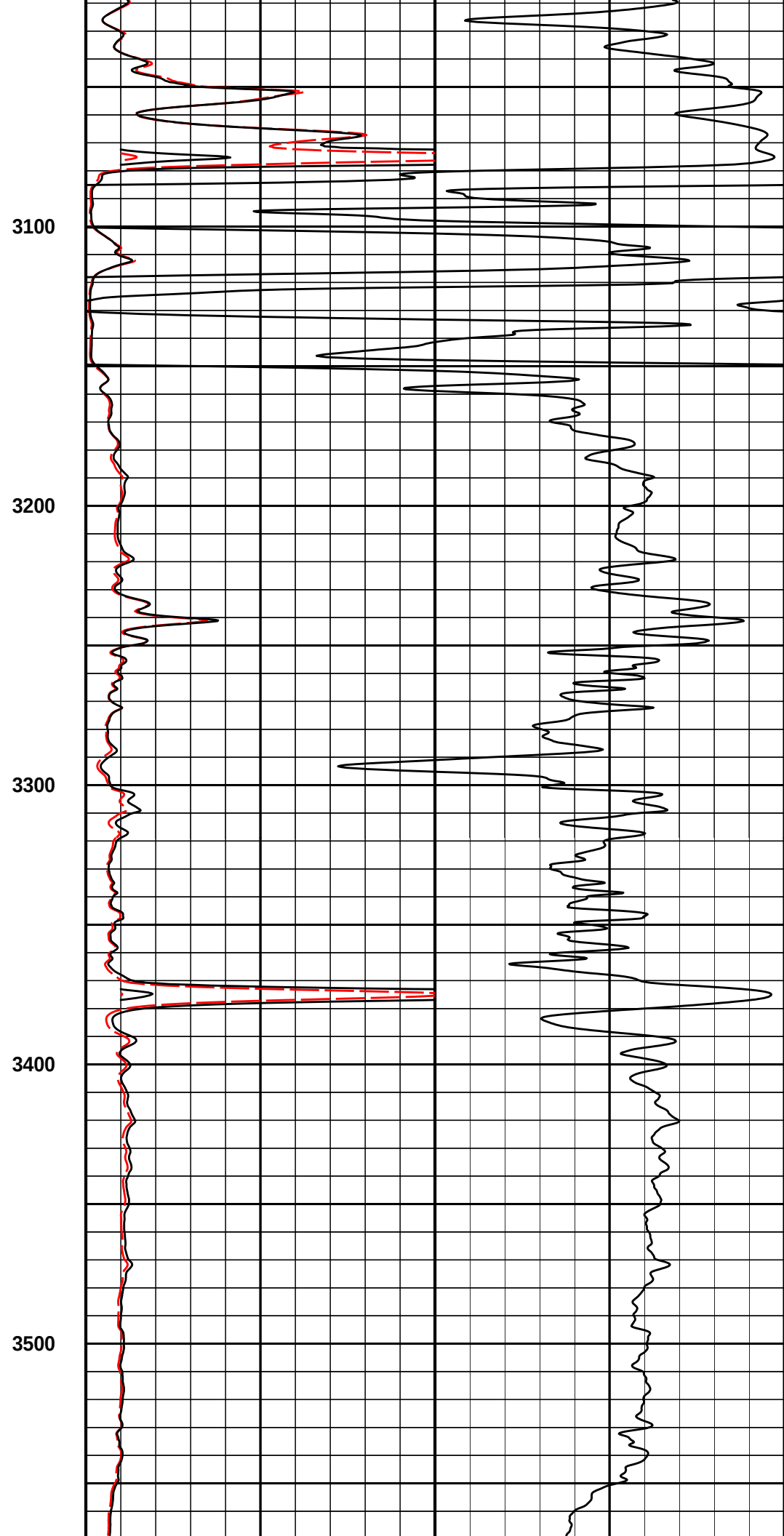
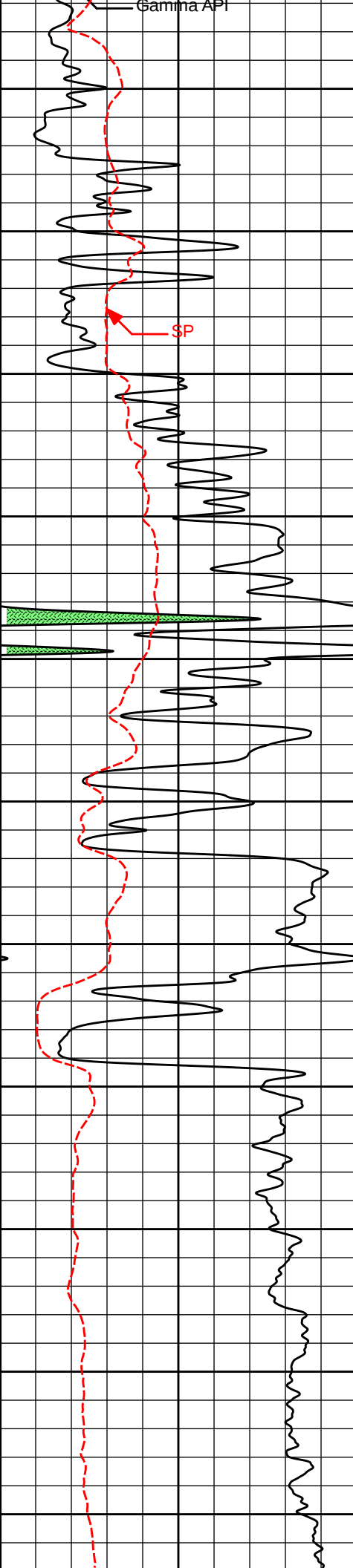
2700

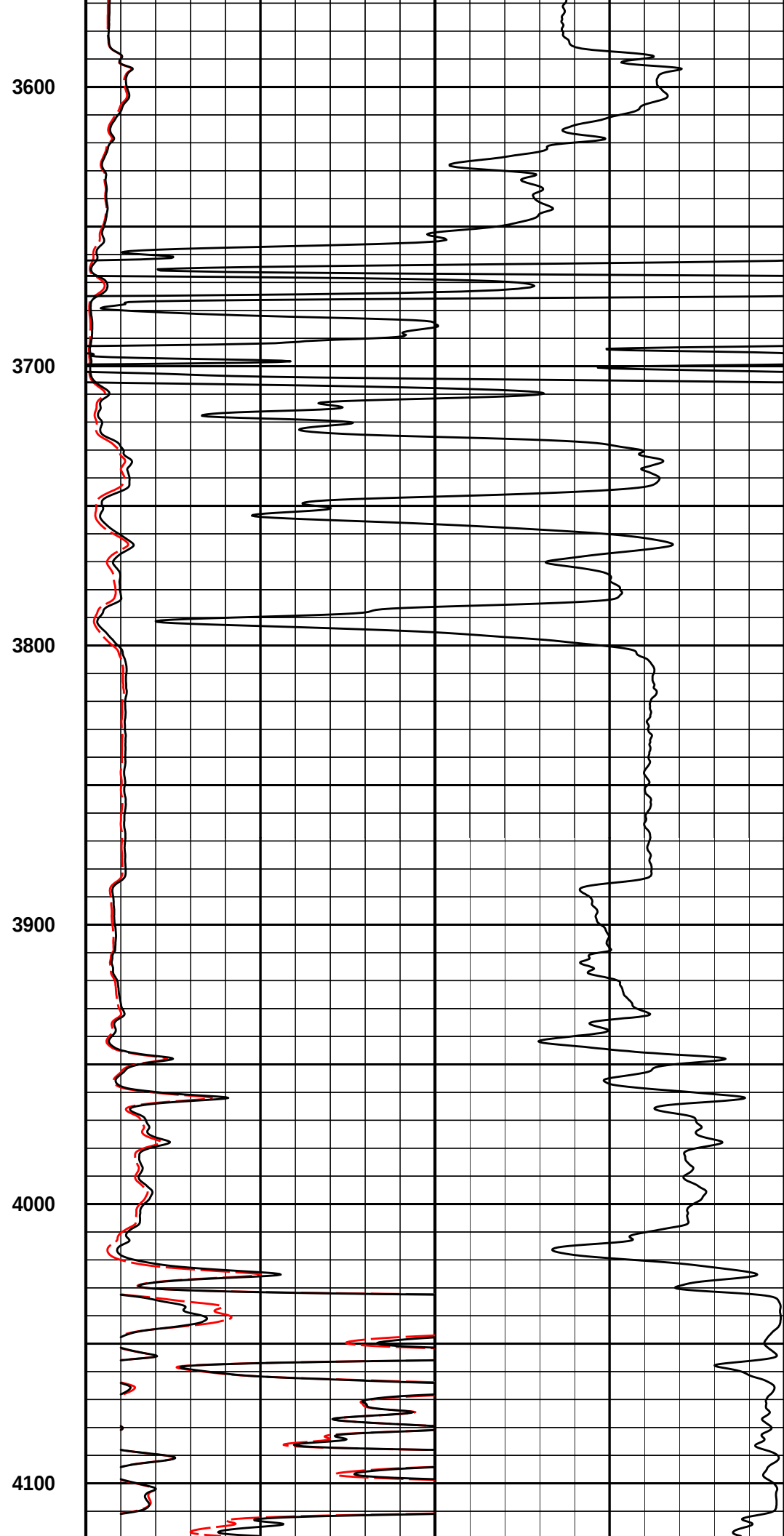
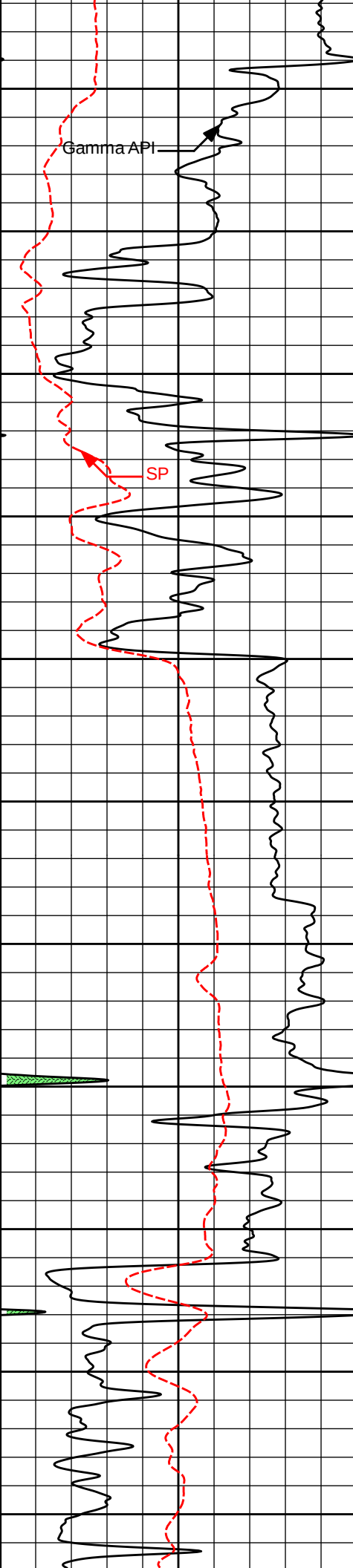
2800

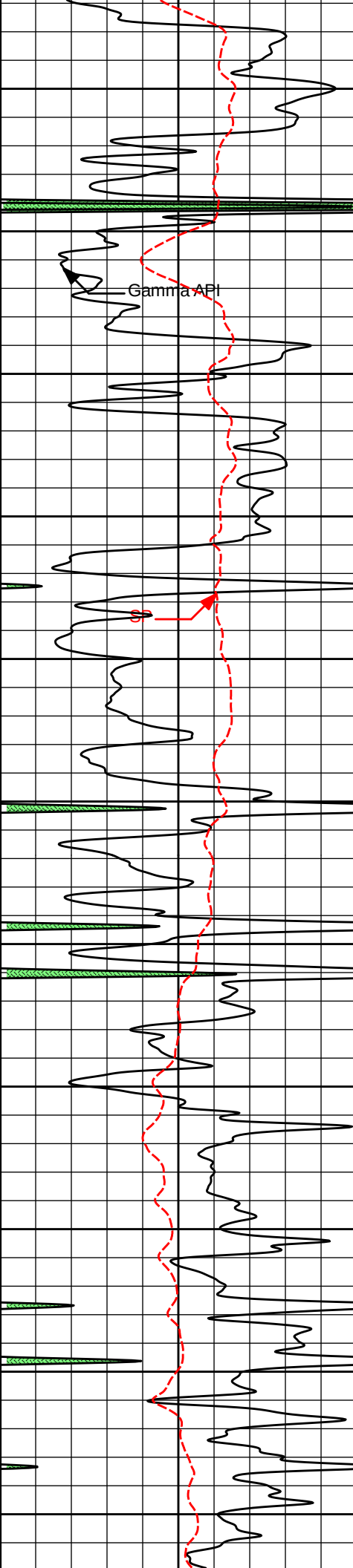
2900

3000









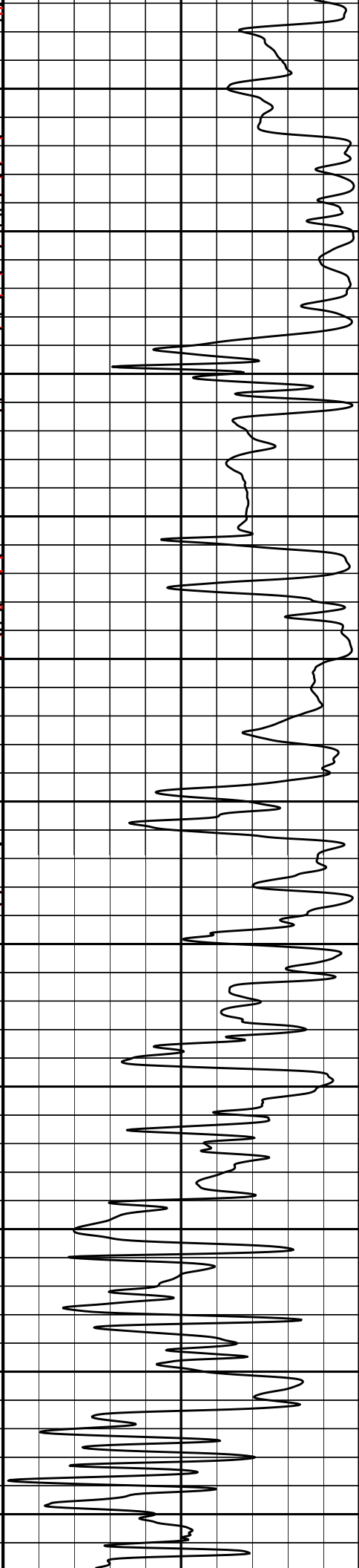
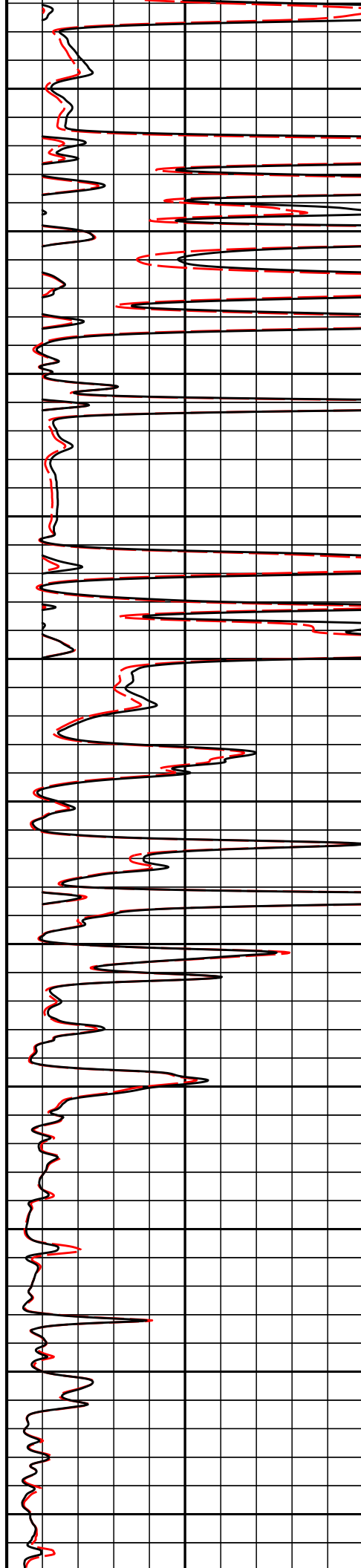
4200

4300

4400

4500

4600





4700

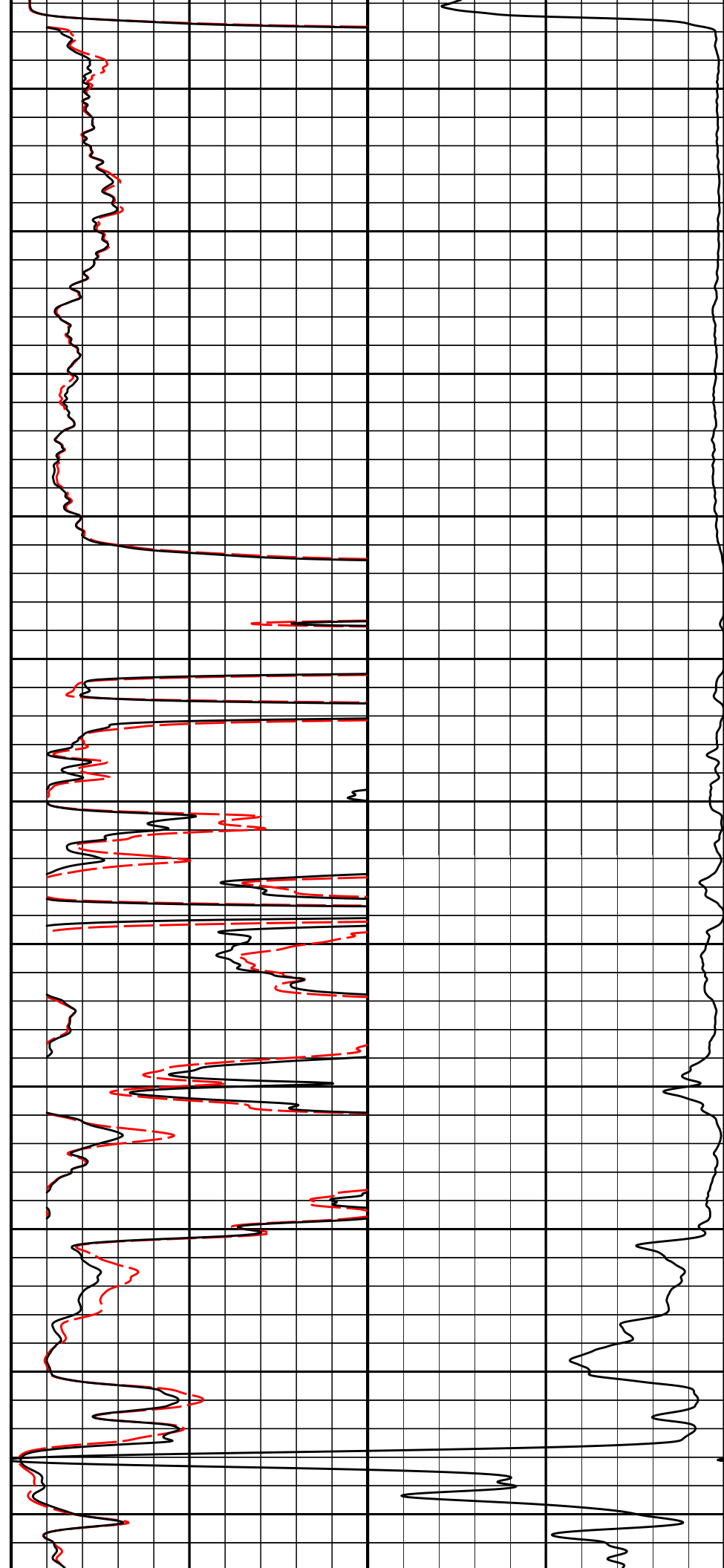
4800

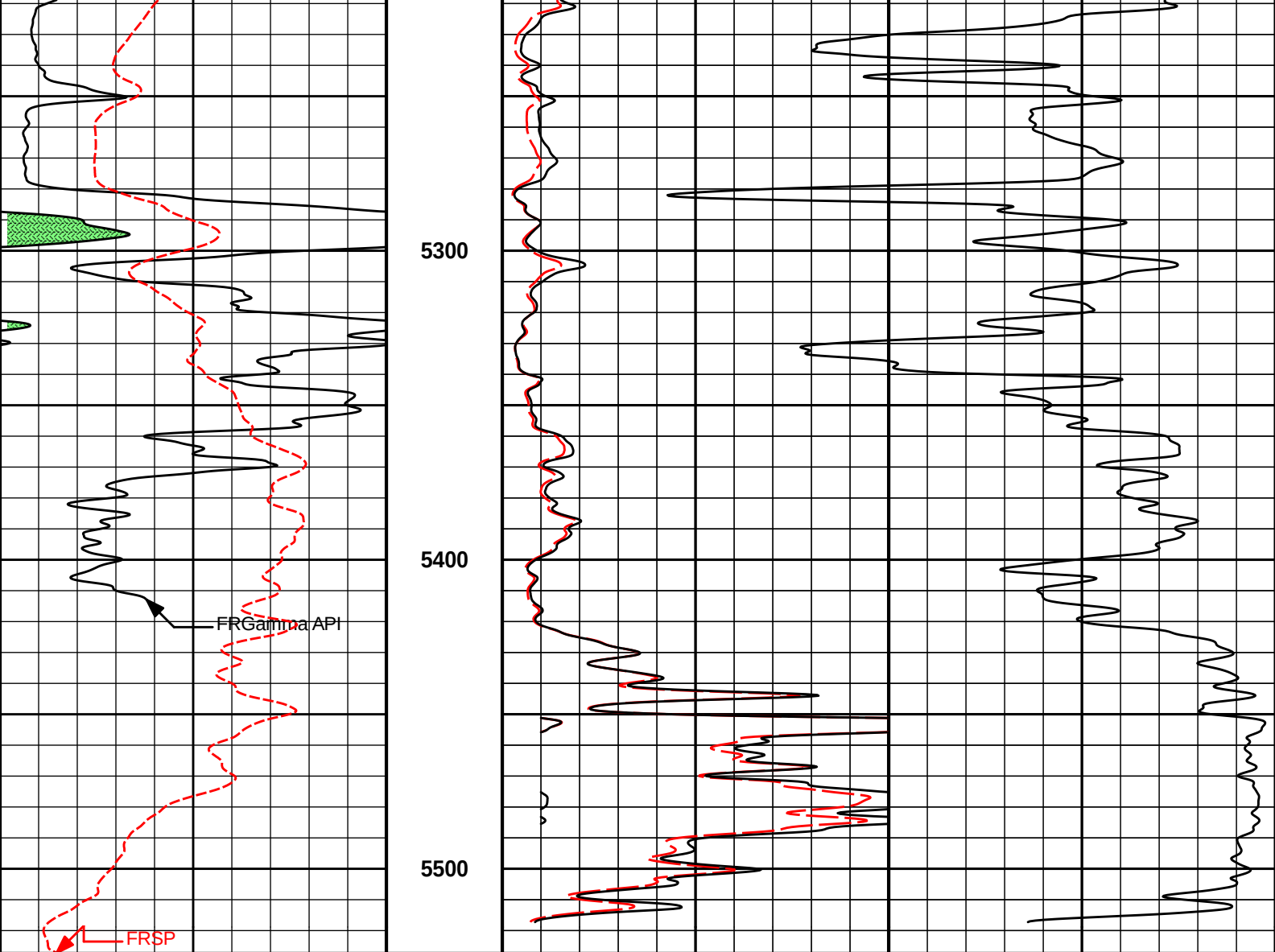
4900

5000

5100

5200





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

HALLIBURTON

Plot Time: 08-Dec-14 12:28:34
Plot Range: 670 ft to 5527.25 ft
Data: SKYLER_RAE_SWD_Well Based*
Plot File: \\-LOCAL-ISKYLER_RAE_SWD_0001 RED_TRIPLE_CSNG_WSTT_XRMIACRT1 ACRT_2inx

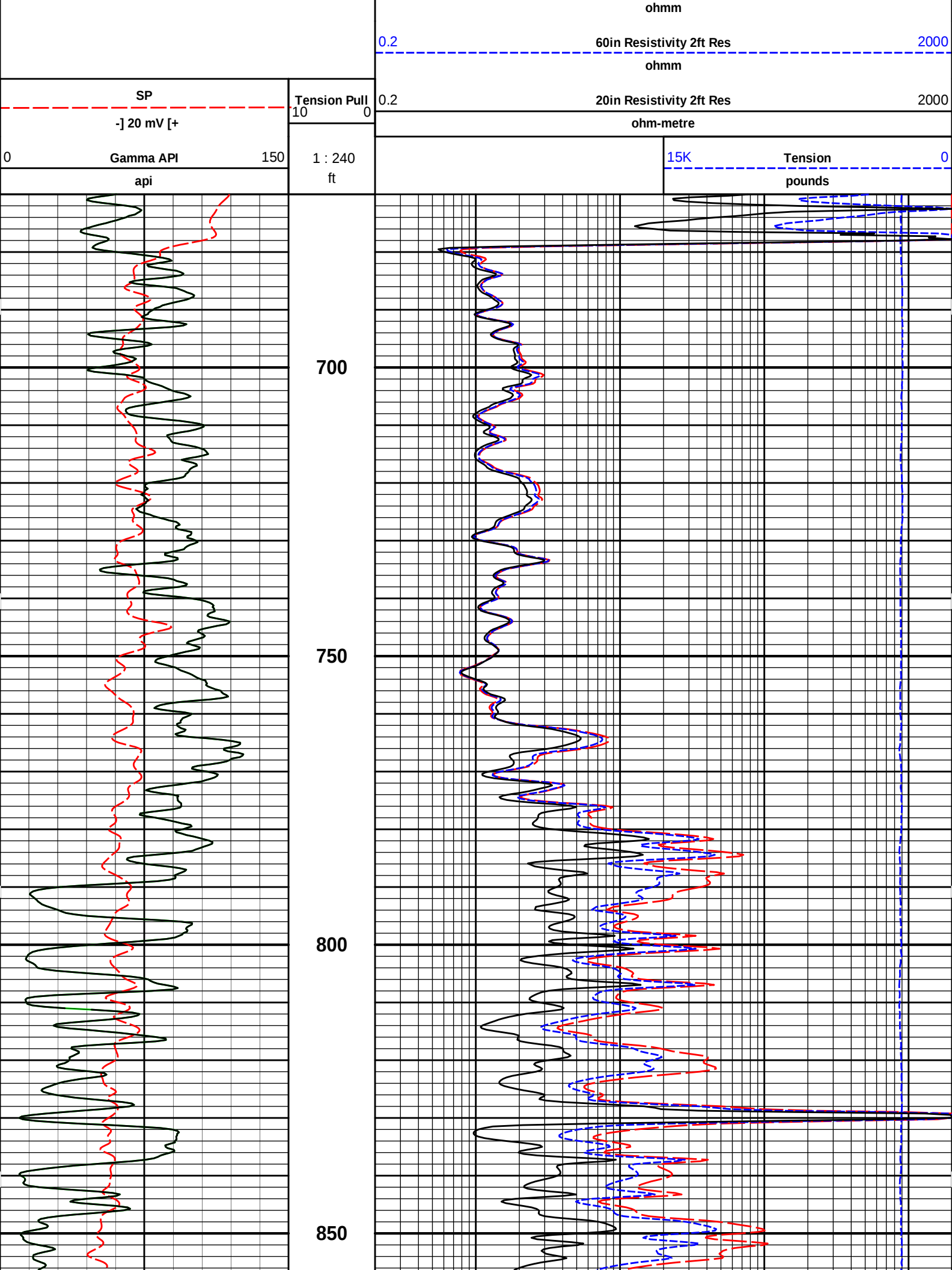
2 INCH MAIN LOG

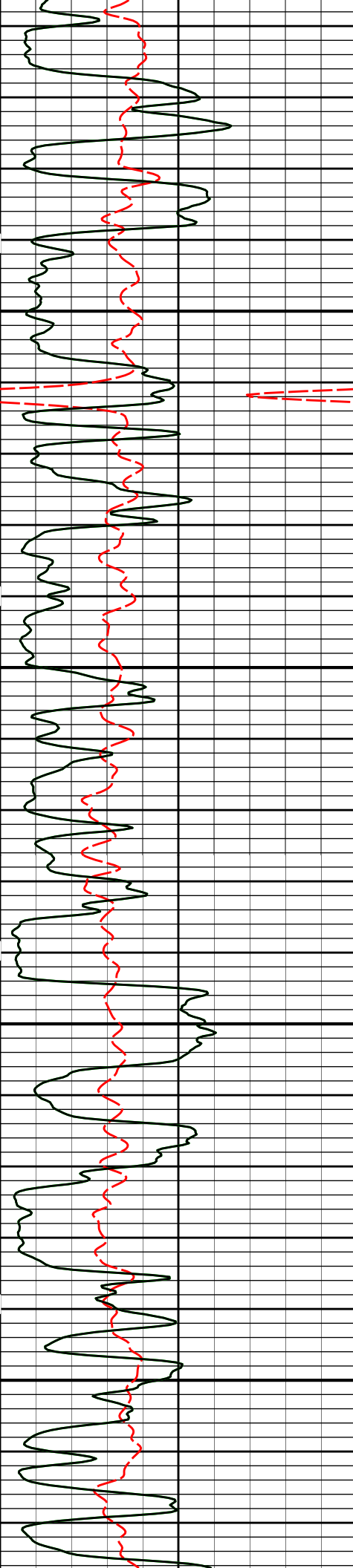
HALLIBURTON

Plot Time: 08-Dec-14 12:28:35
Plot Range: 670 ft to 5530.17 ft
Data: SKYLER_RAE_SWD_Well Based*
Plot File: \\-LOCAL-ISKYLER_RAE_SWD_0001 RED_TRIPLE_CSNG_WSTT_XRMIACRT1 ACRT_5_mainx

5 INCH MAIN LOG

0.2	90in Resistivity 2ft Res	2000
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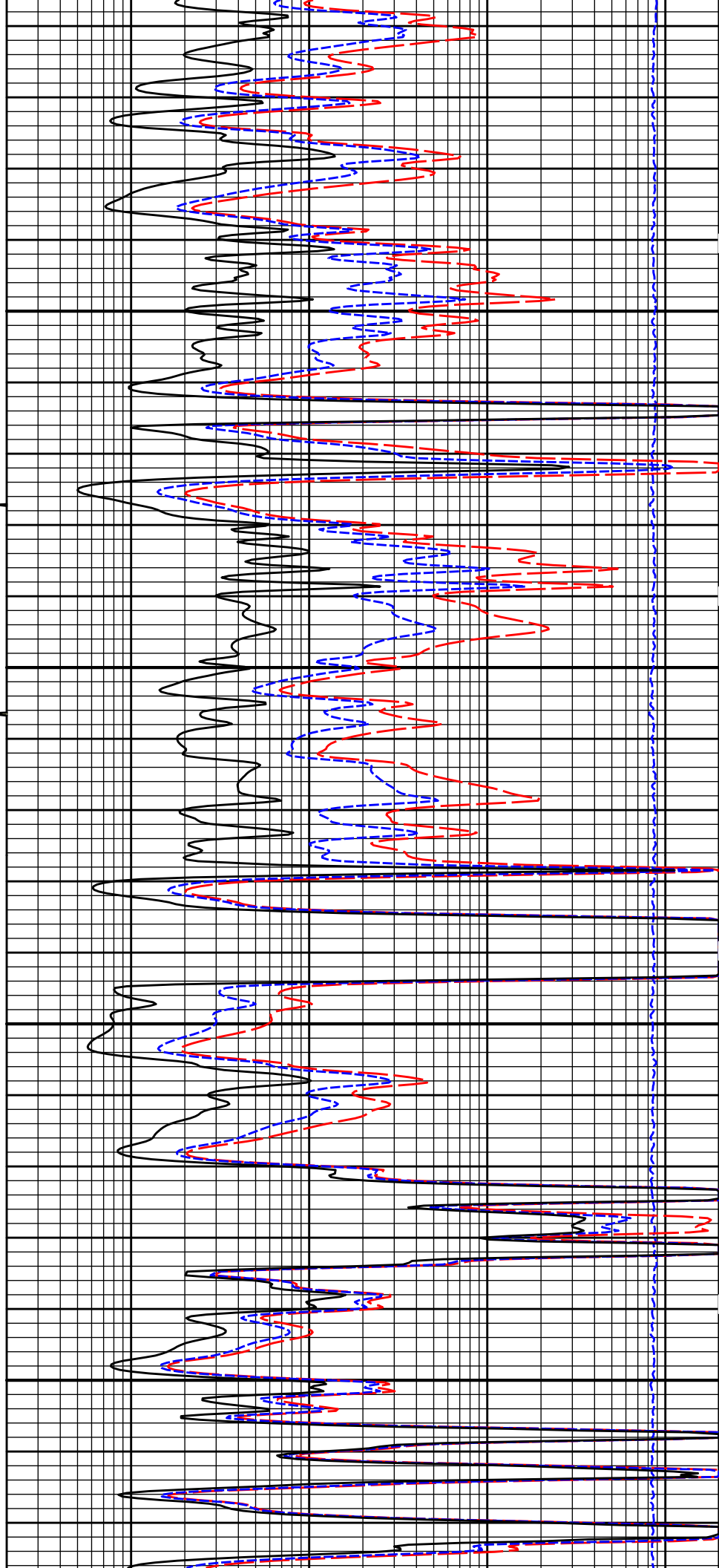


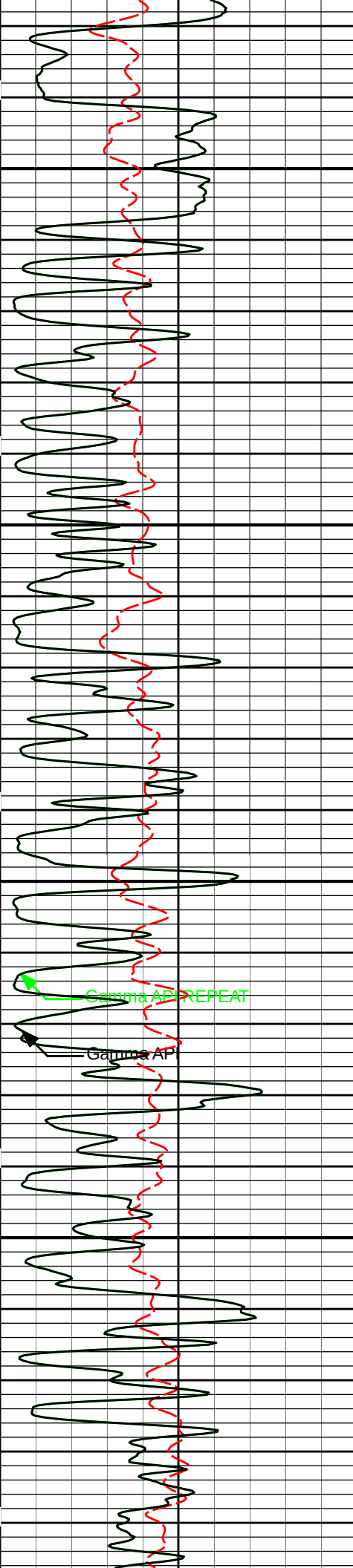
900

950

1000

1050





1100

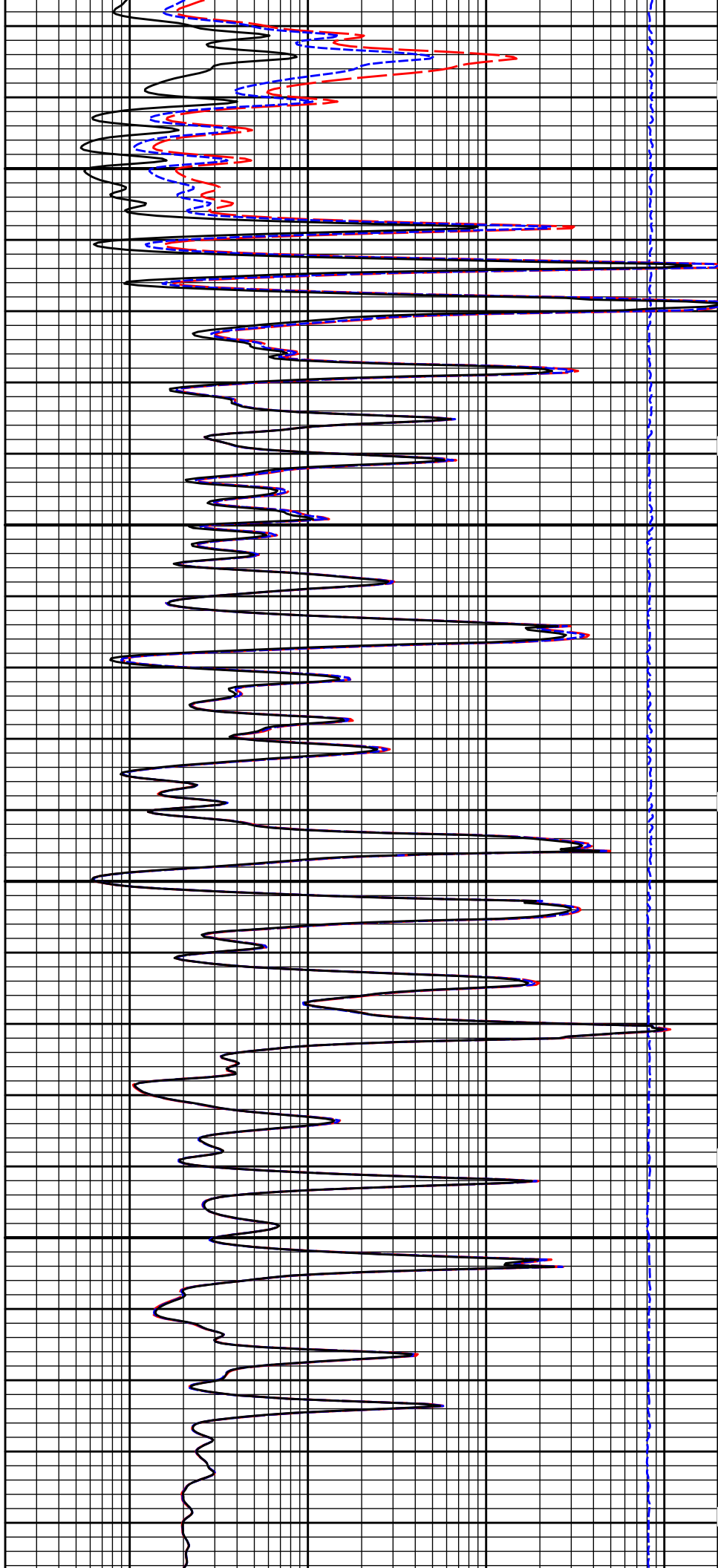
1150

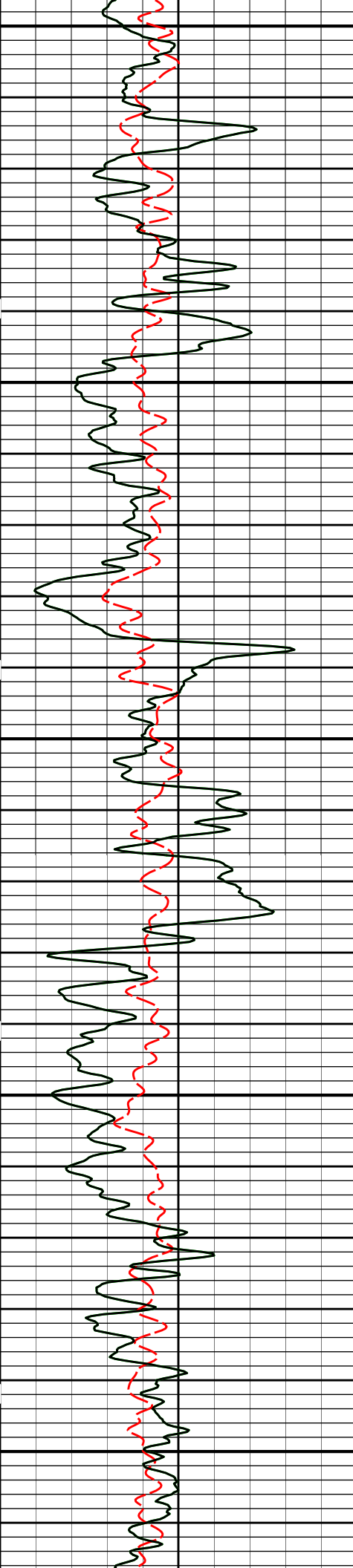
1200

1250

Gamma API REPEAT

Gamma API





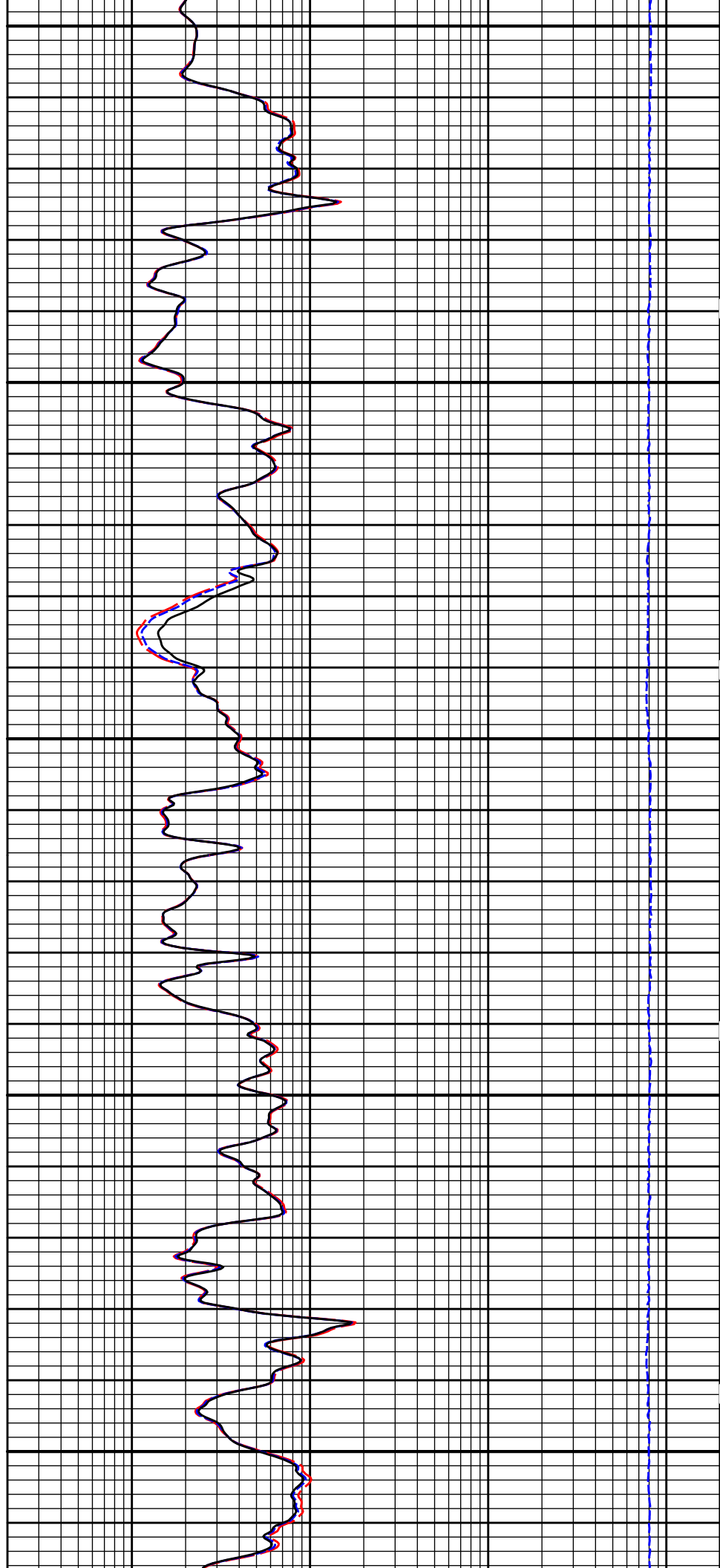
1300

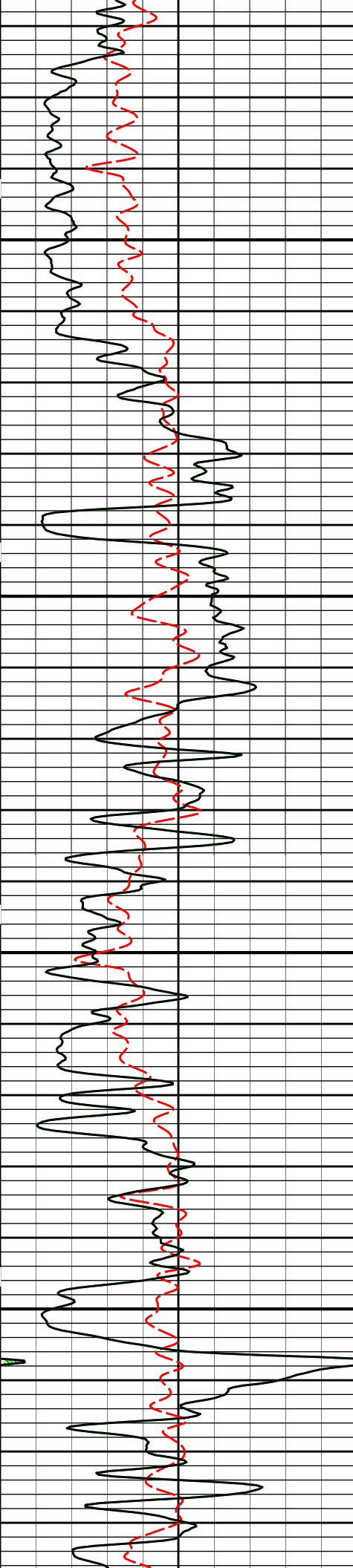
1350

1400

1450

1500



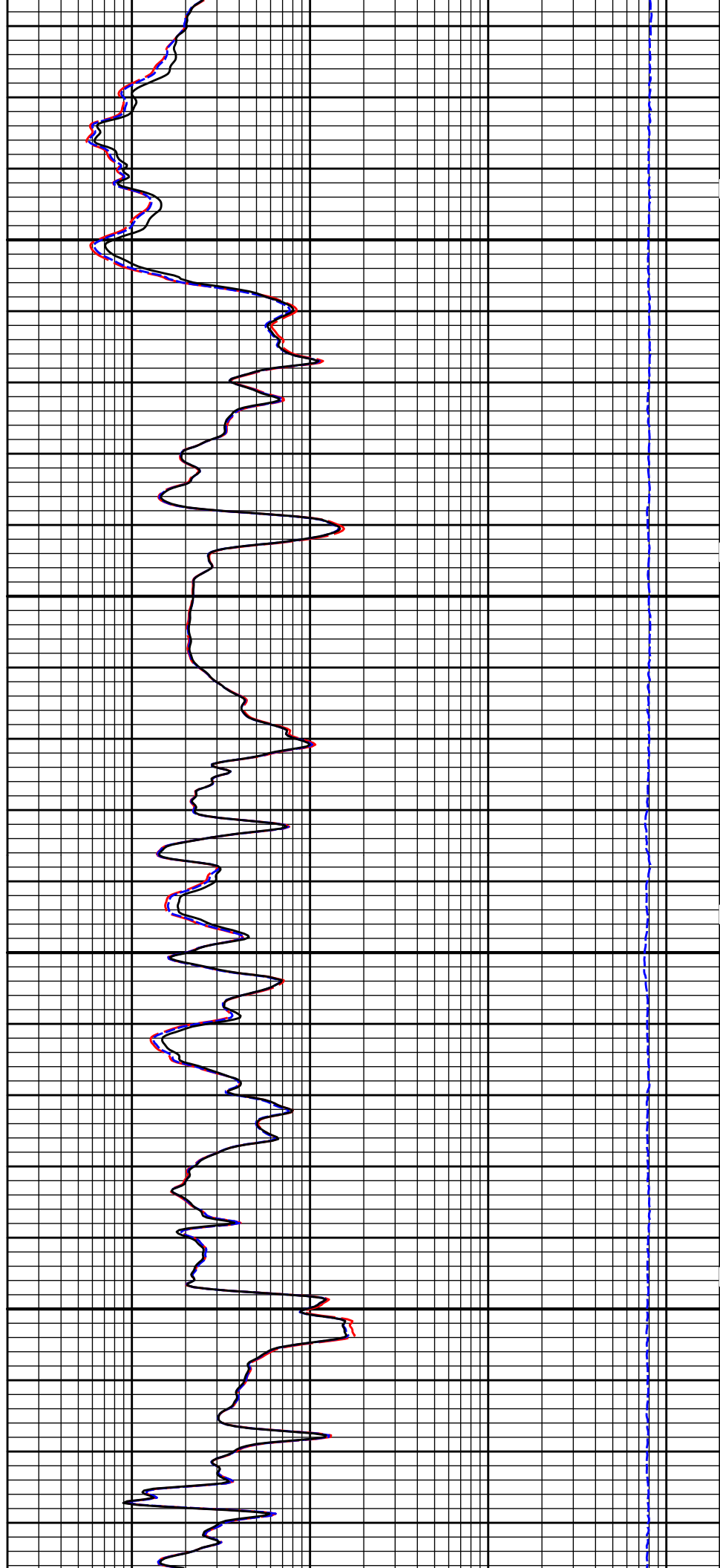


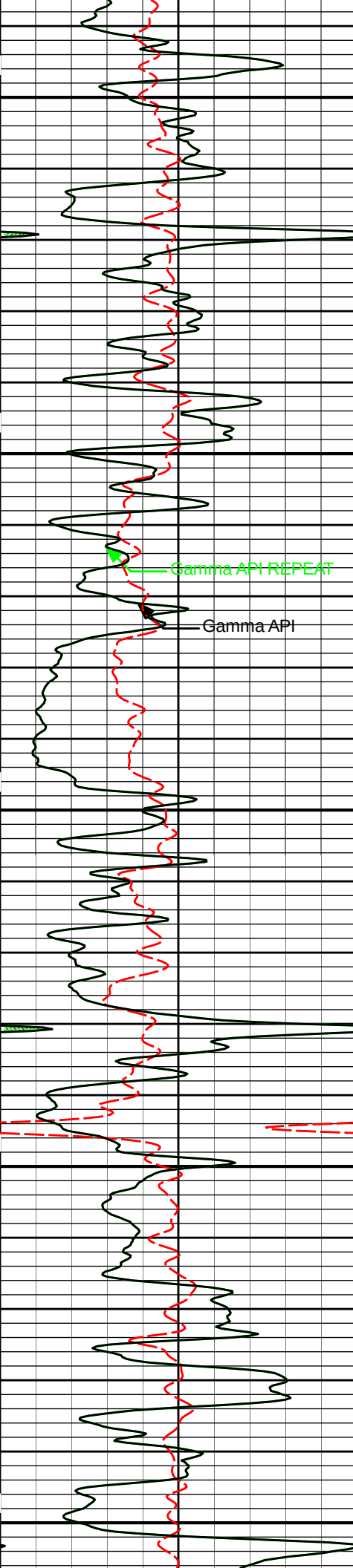
1550

1600

1650

1700





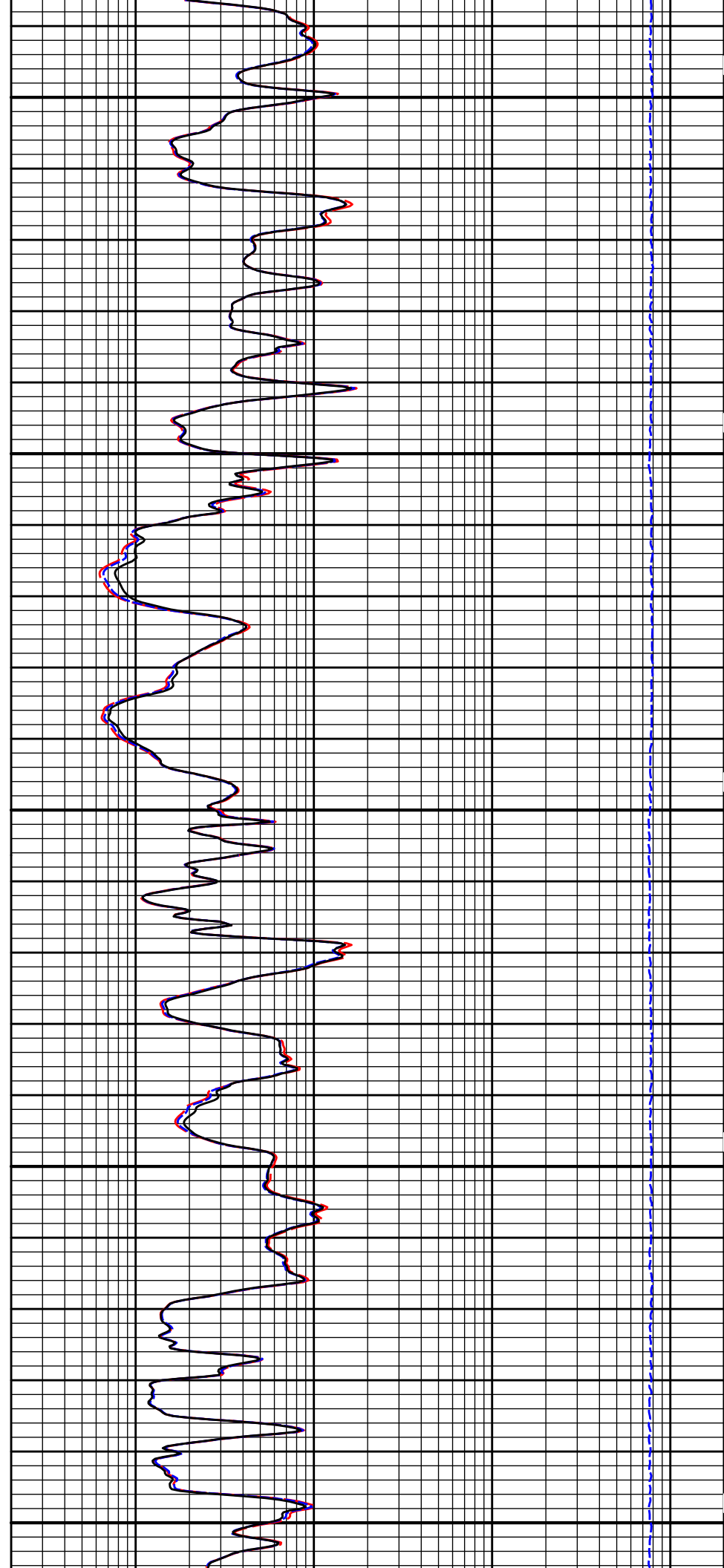
1750

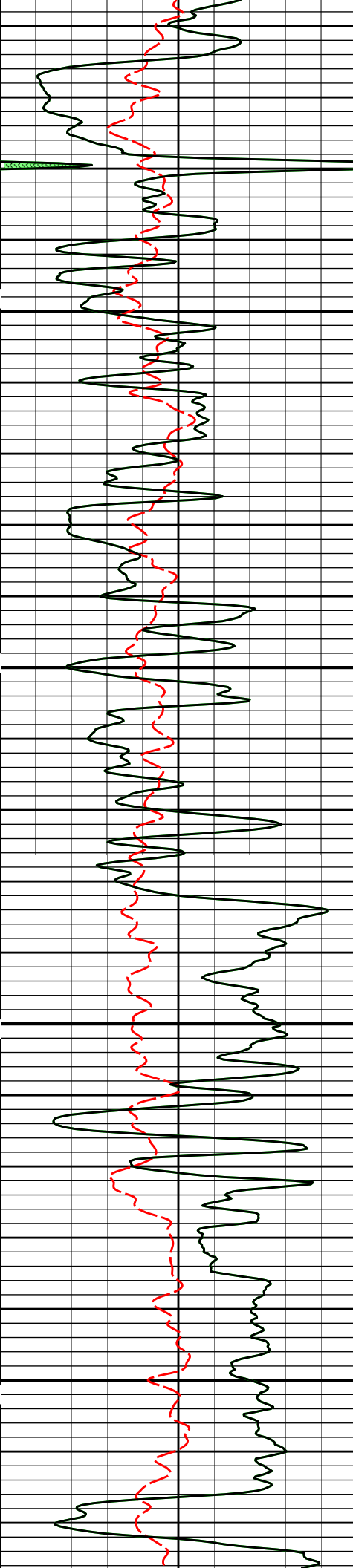
1800

1850

1900

1950



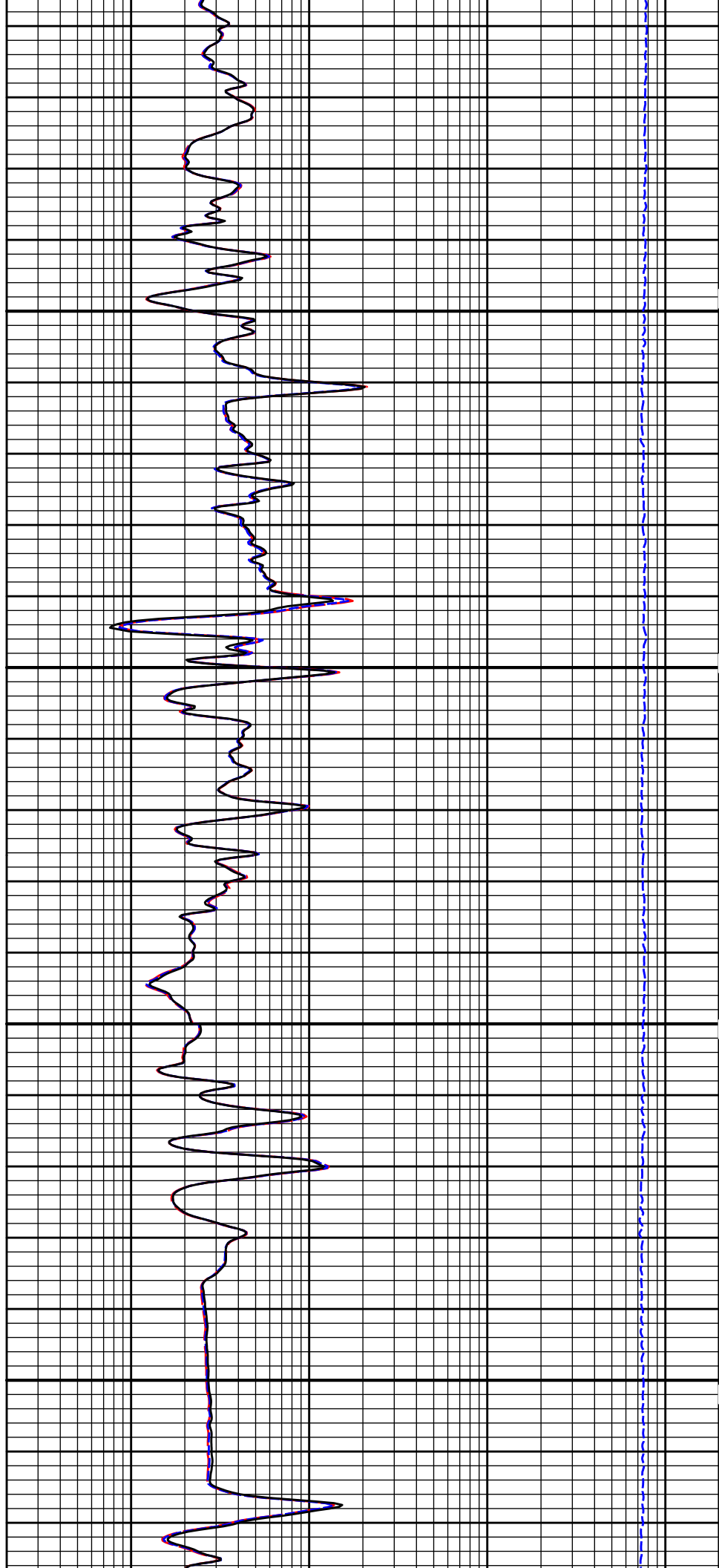


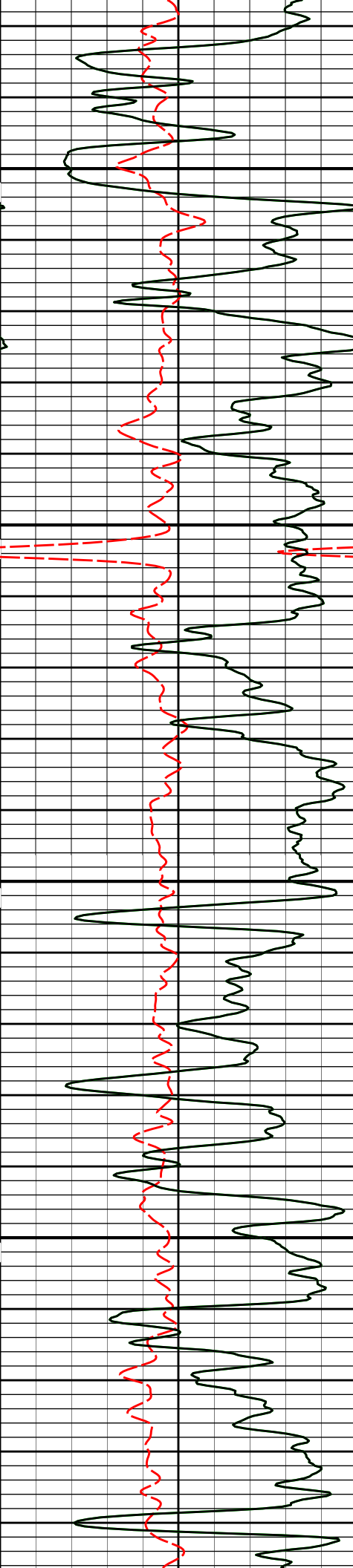
2000

2050

2100

2150



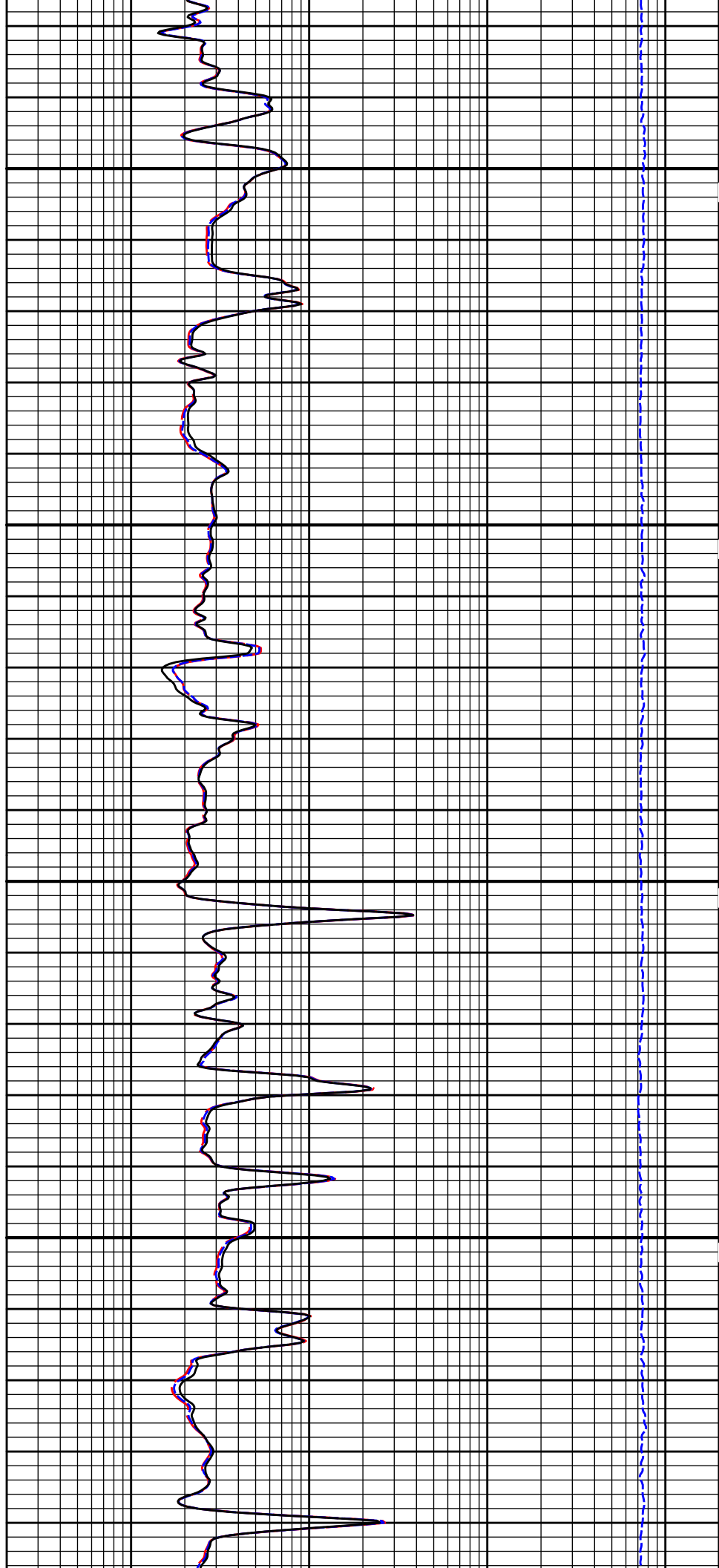


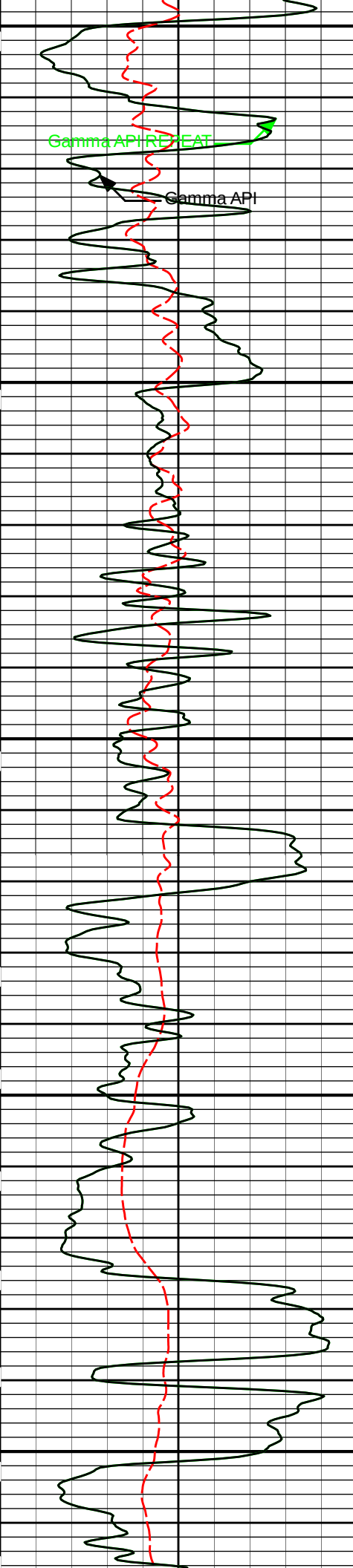
2200

2250

2300

2350





2400

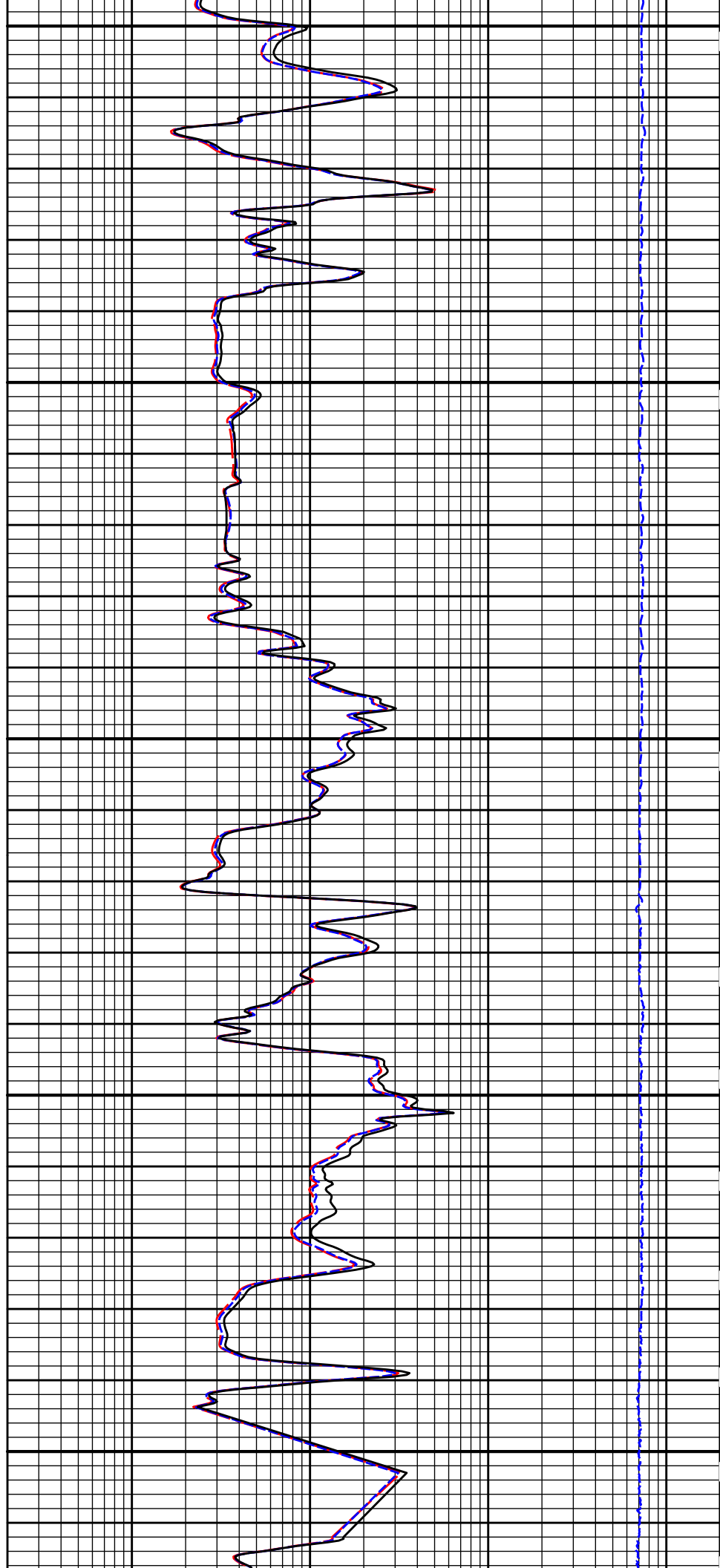
Gamma API

2450

2500

2550

2600



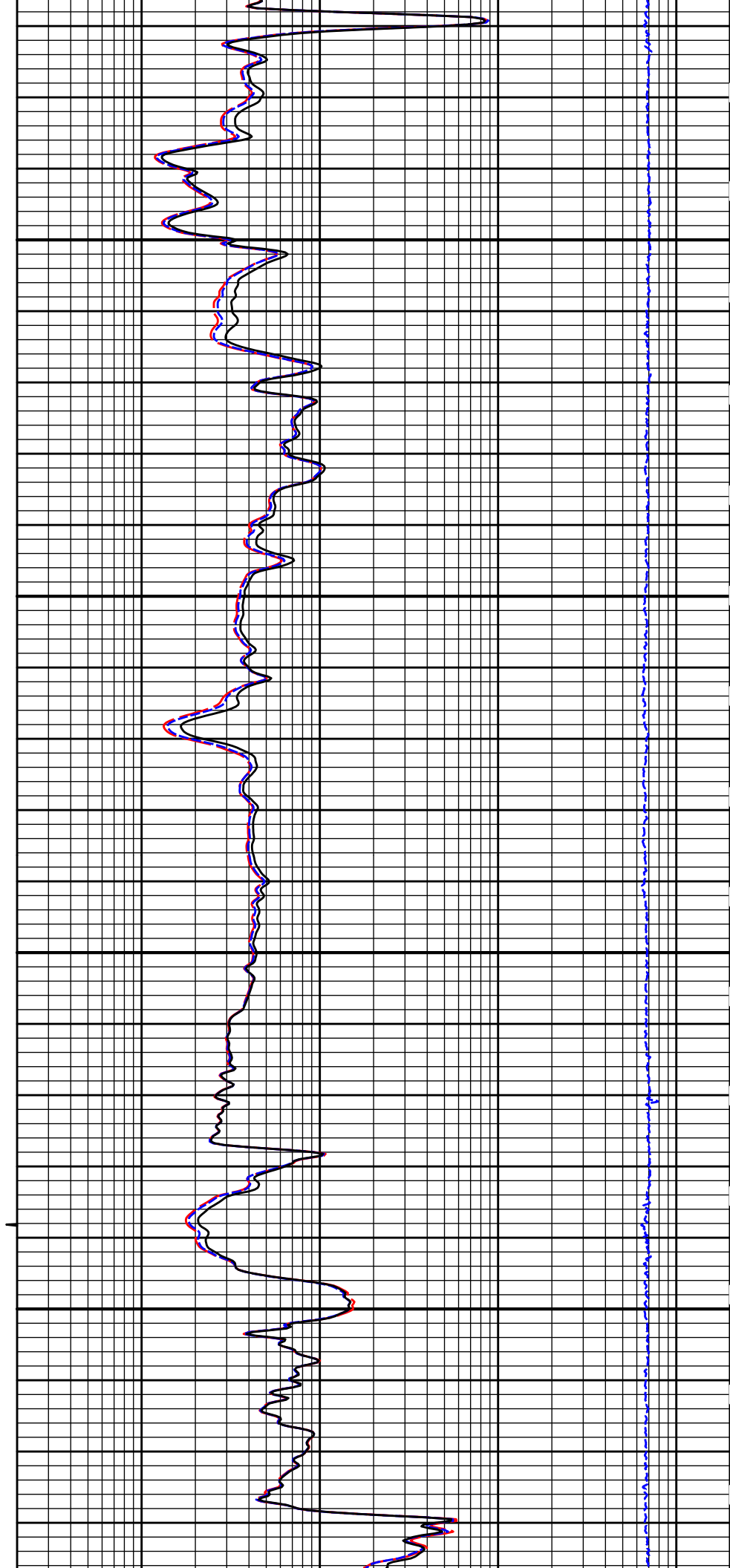


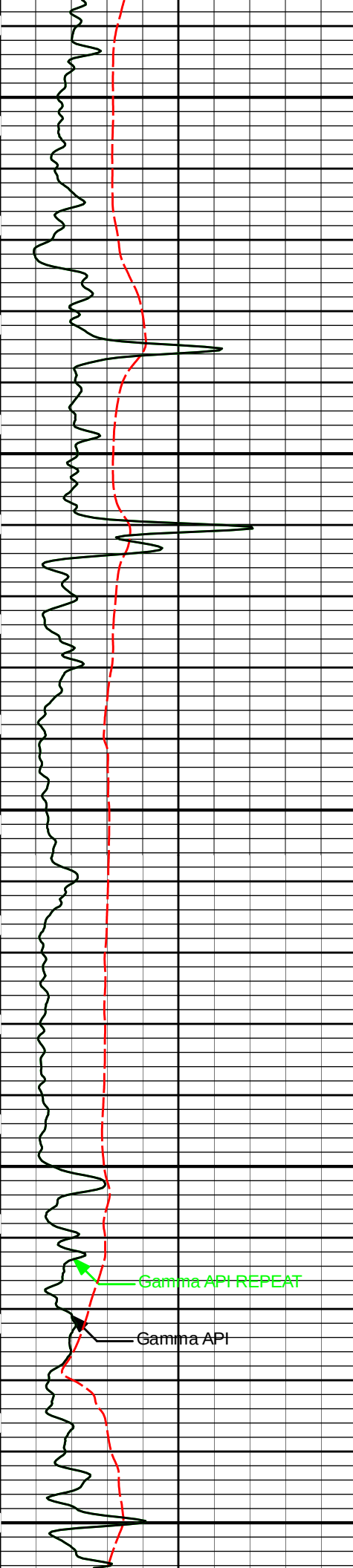
2650

2700

2750

2800





2850

2900

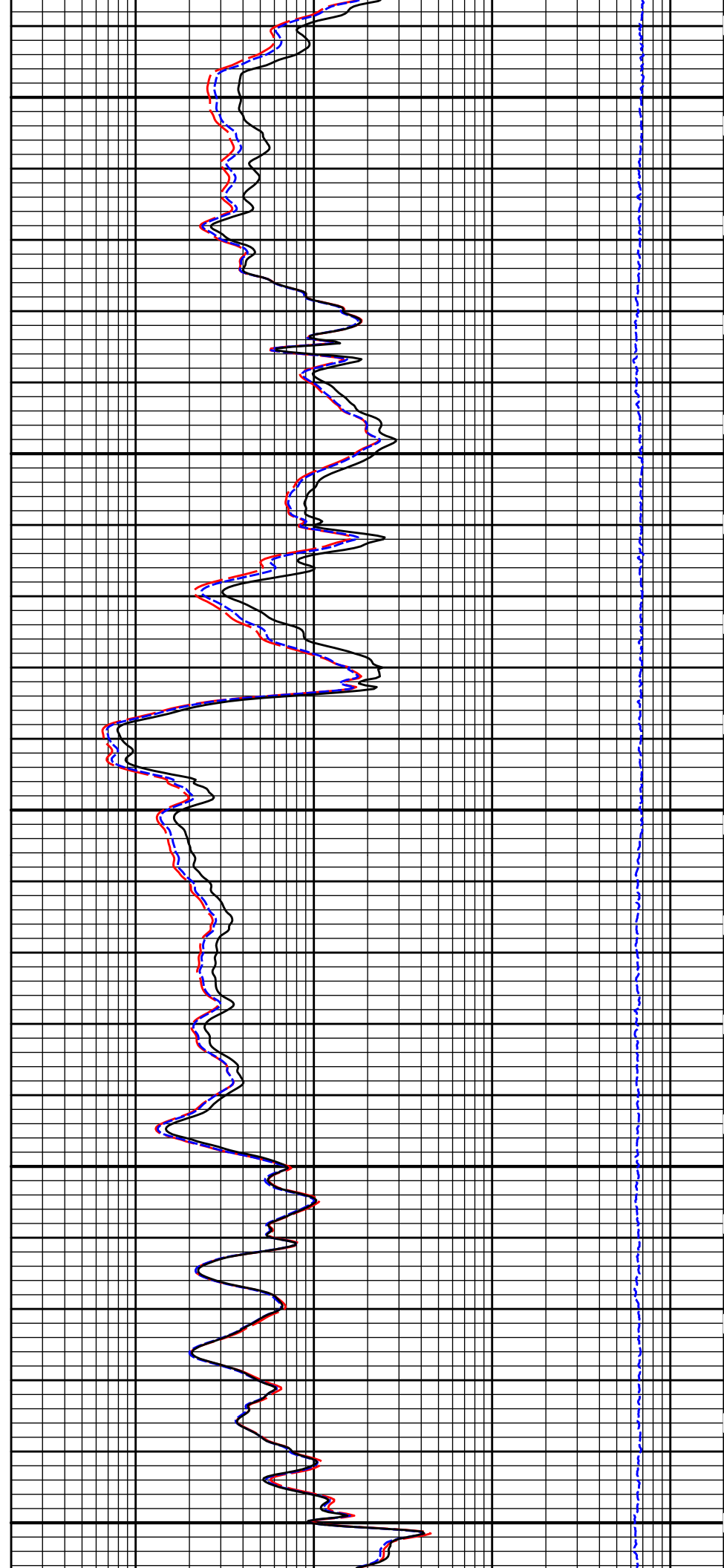
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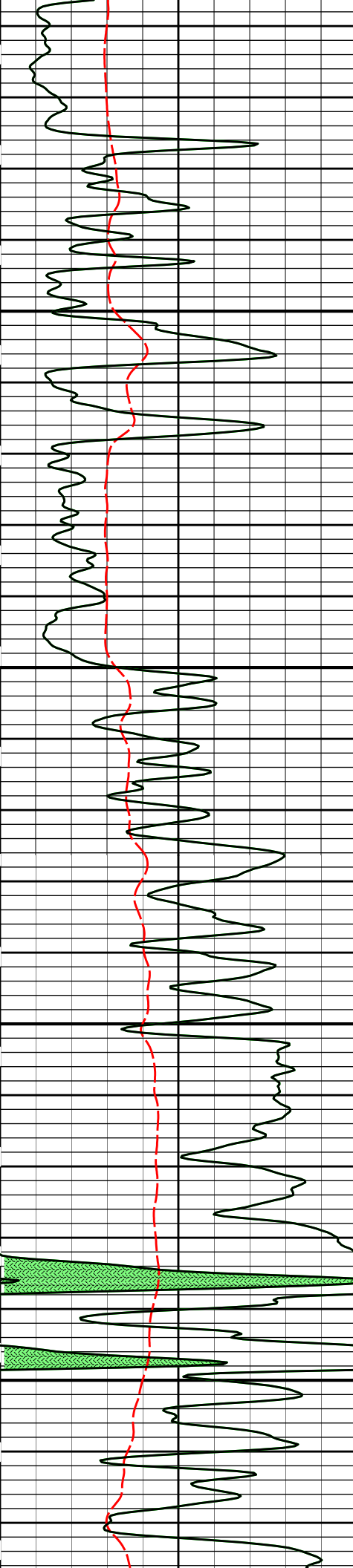
3000

3050

Gamma API REPEAT

Gamma API



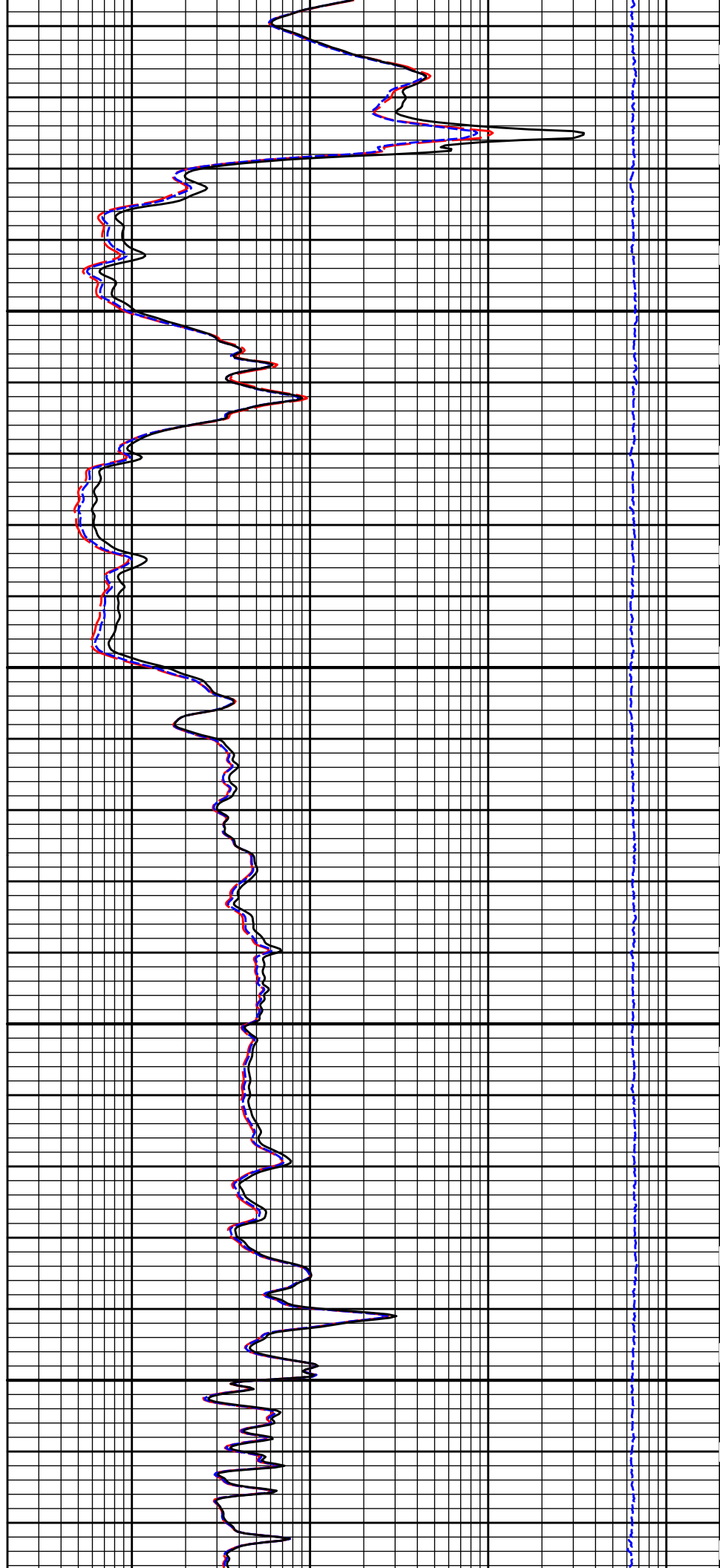


3100

3150

3200

3250



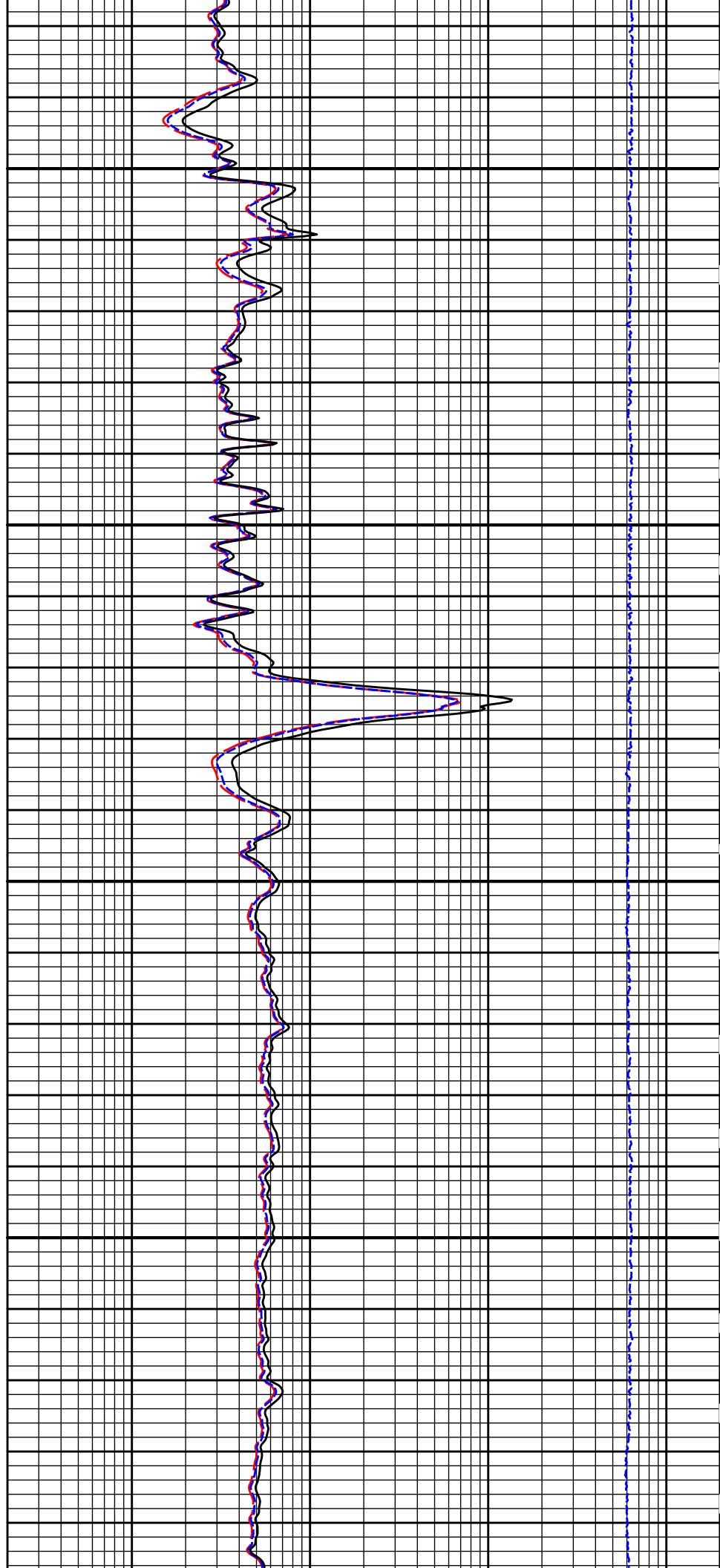


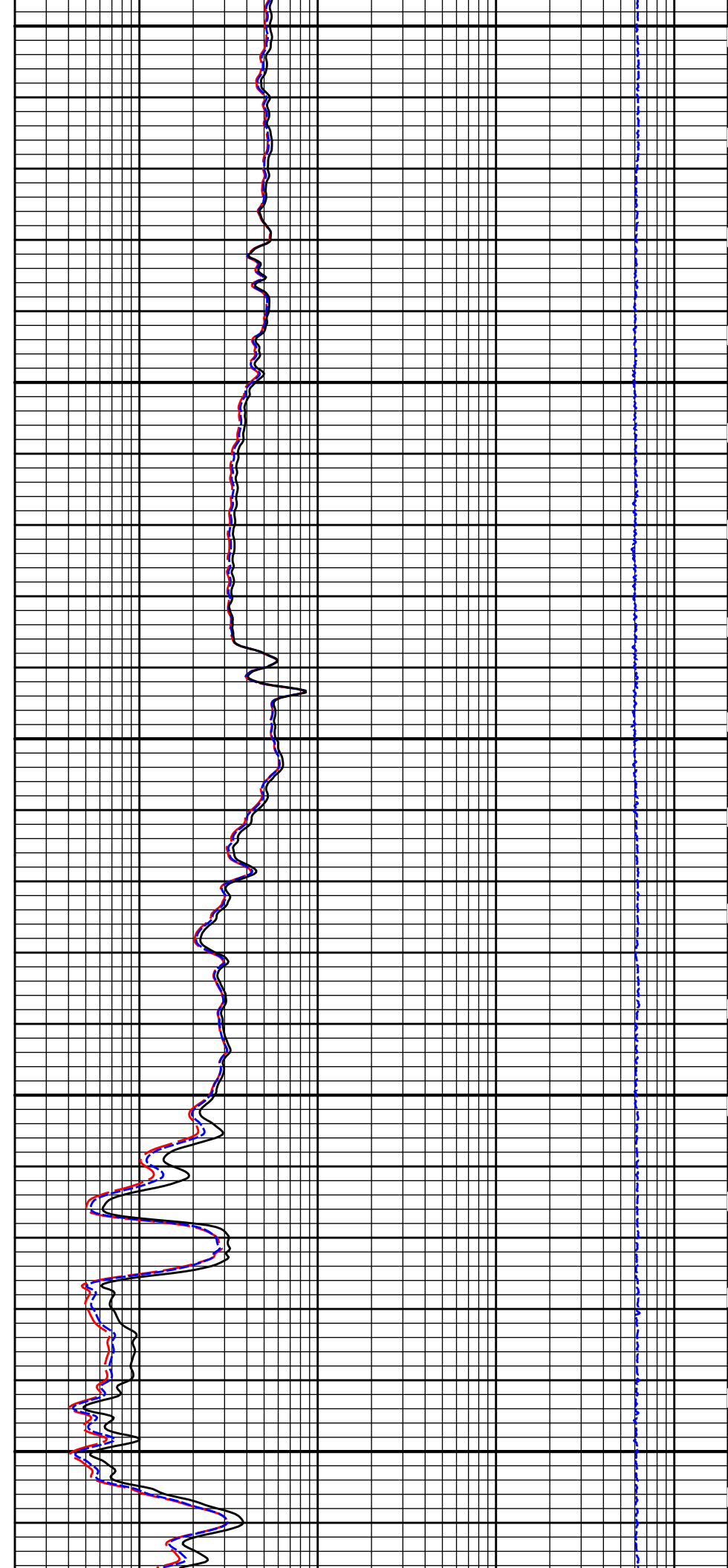
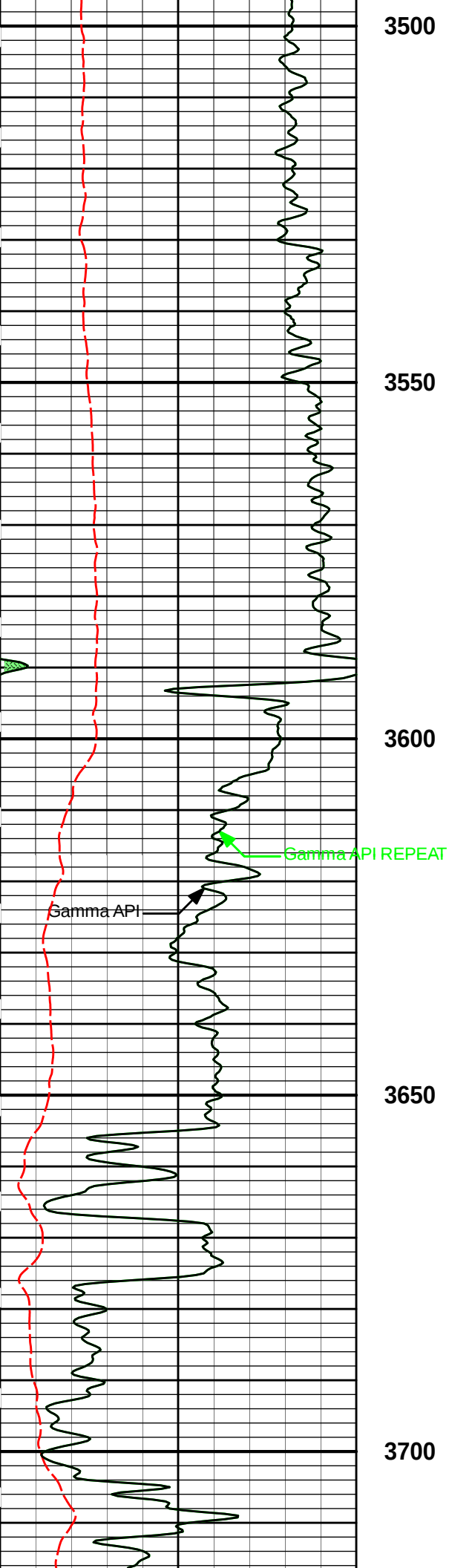
3300

3350

3400

3450





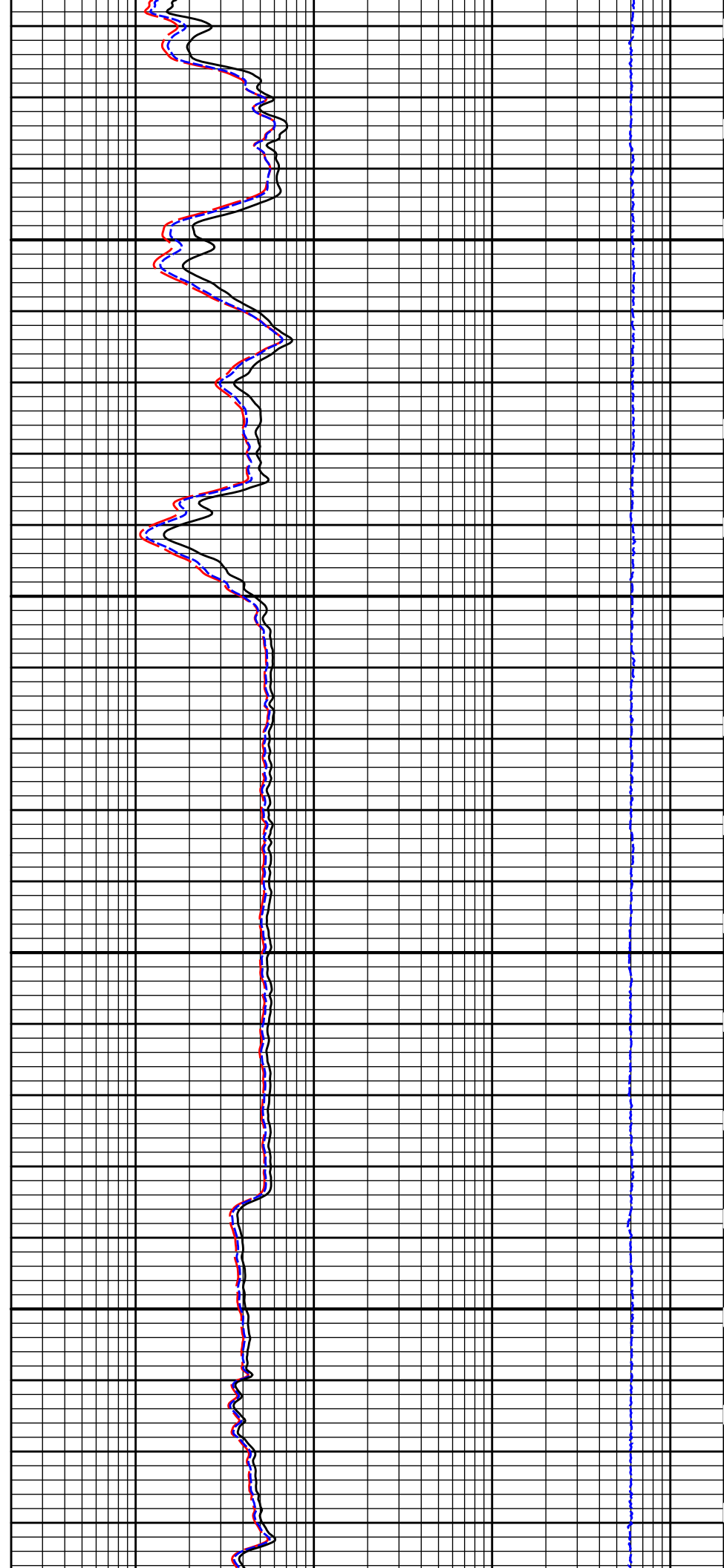


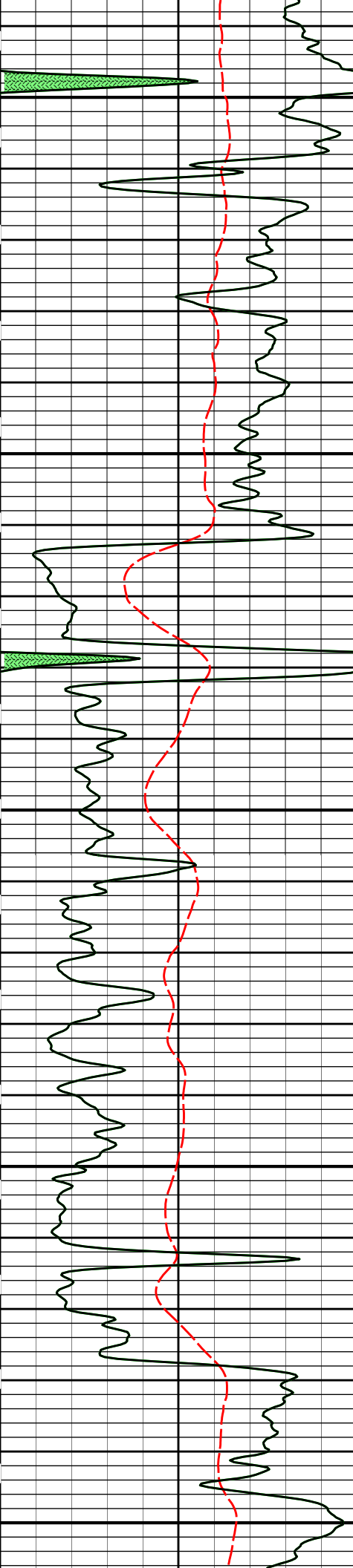
3750

3800

3850

3900





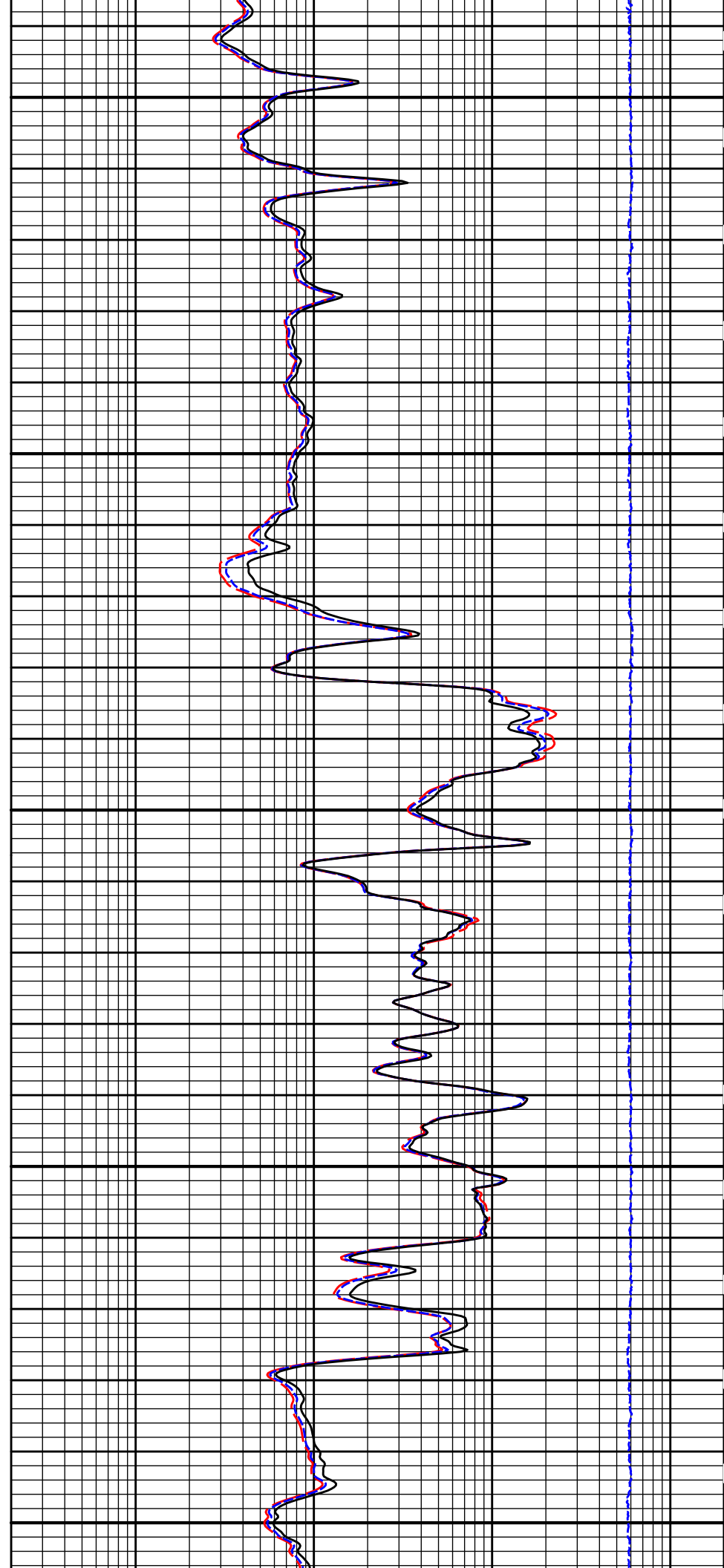
3950

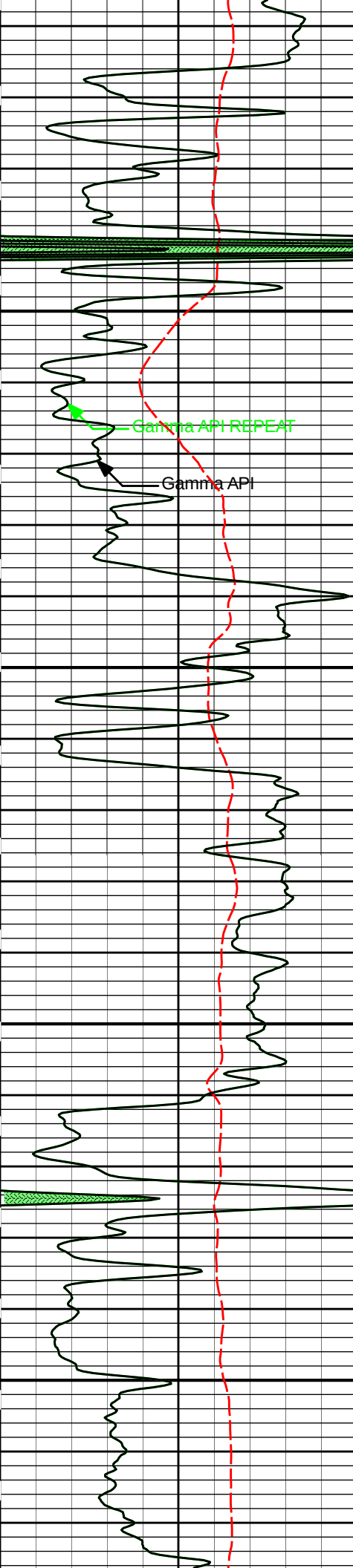
4000

4050

4100

4150



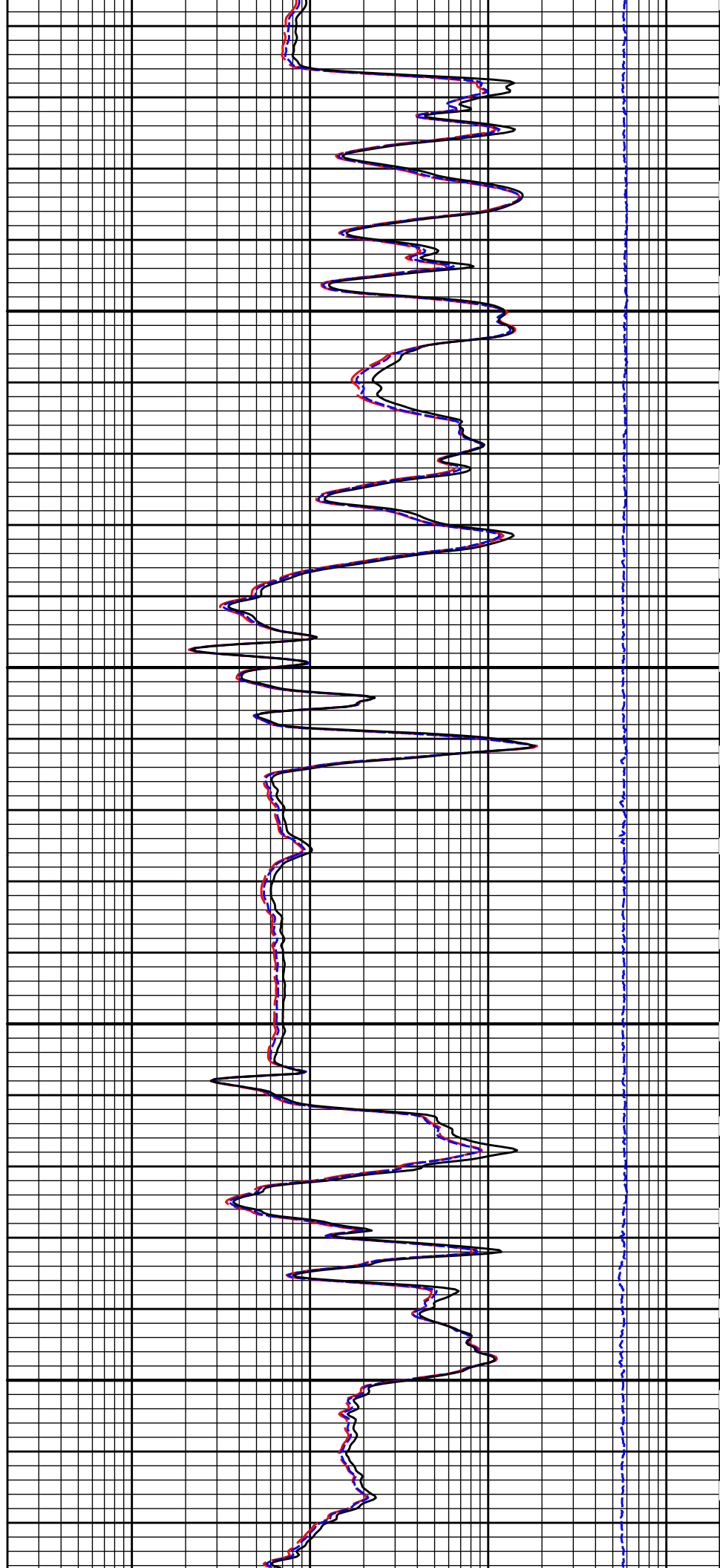


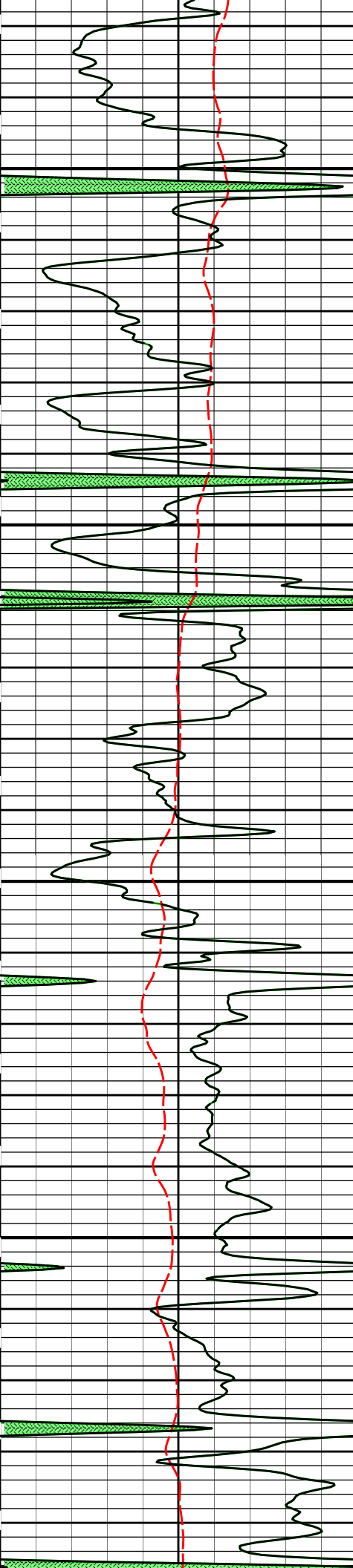
4200

4250

4300

4350



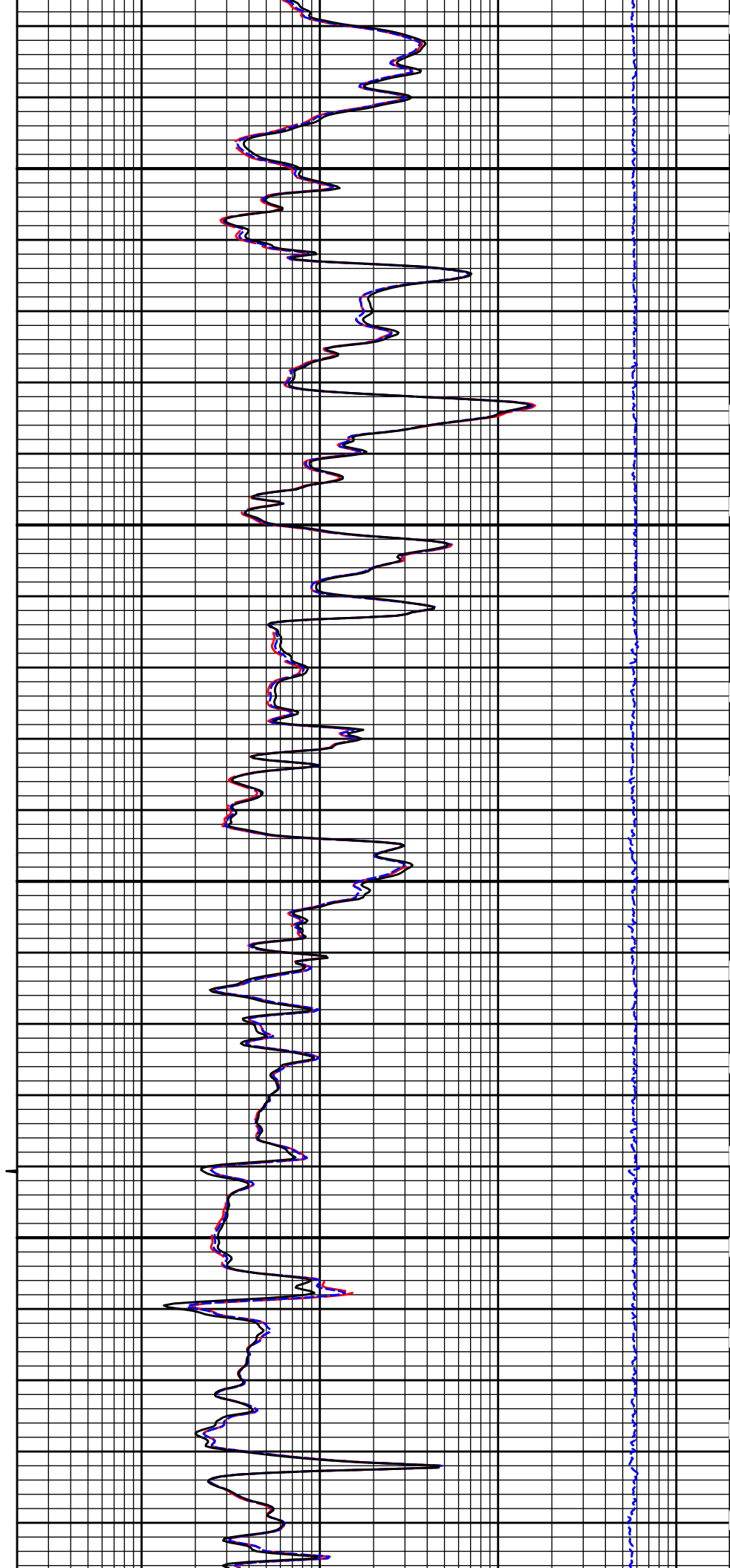


4400

4450

4500

4550





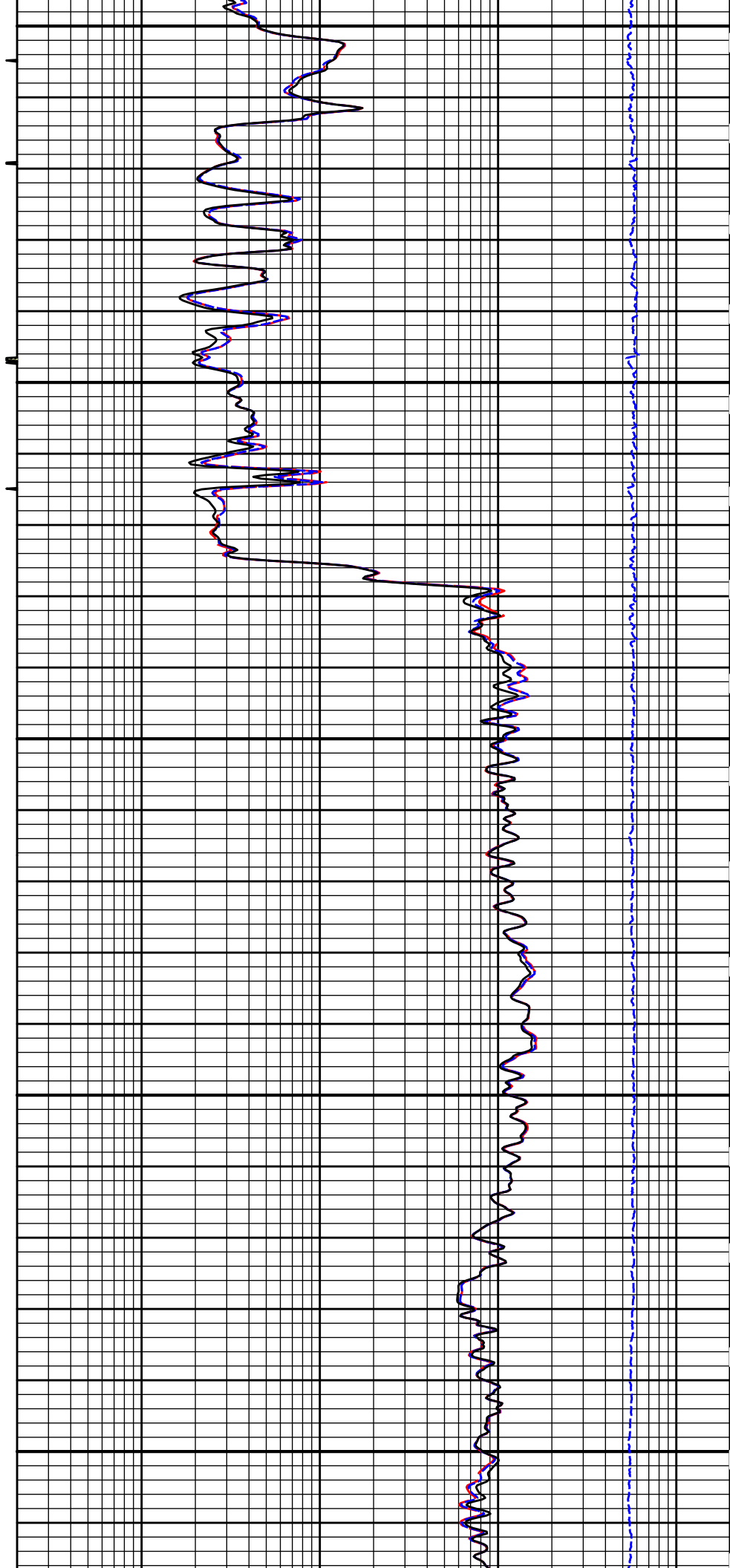
4600

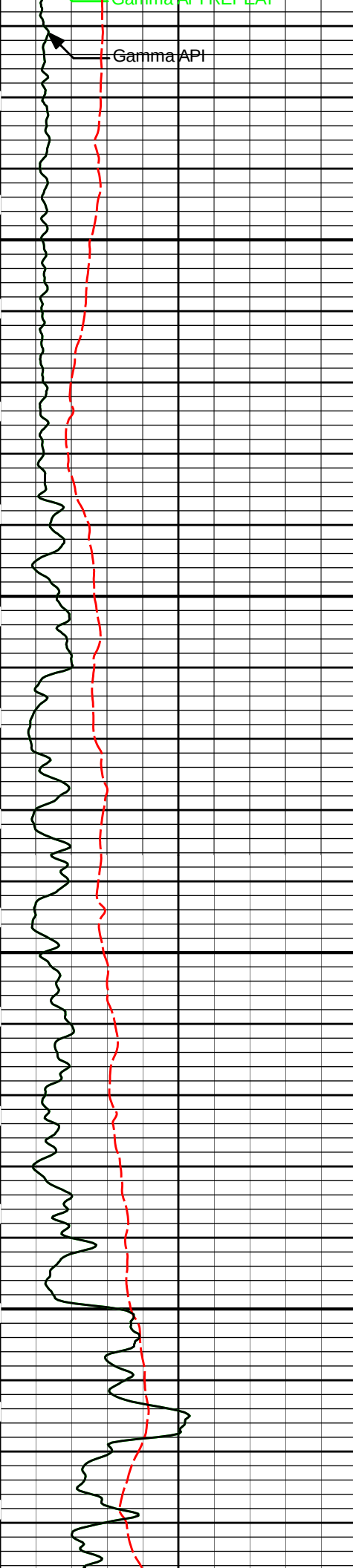
4650

4700

4750

4800



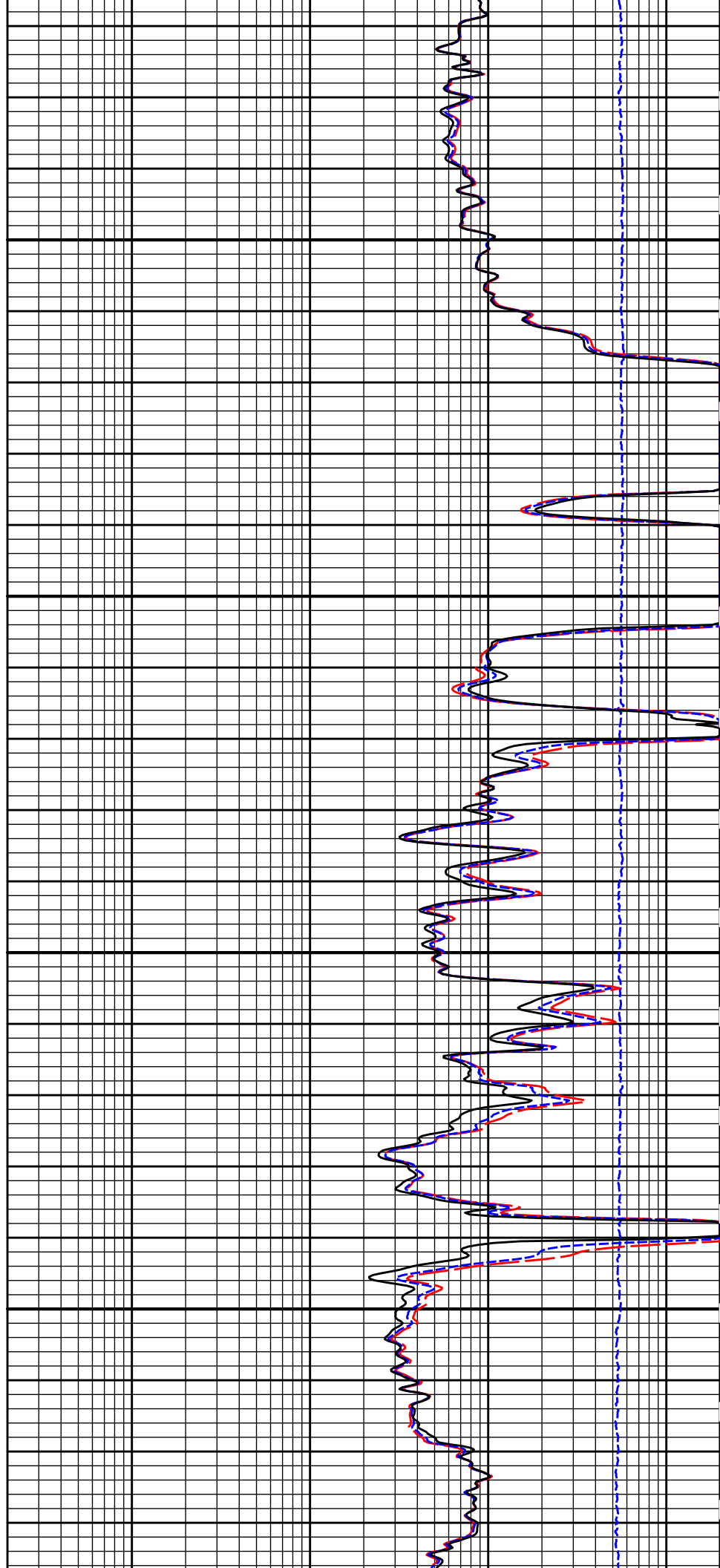


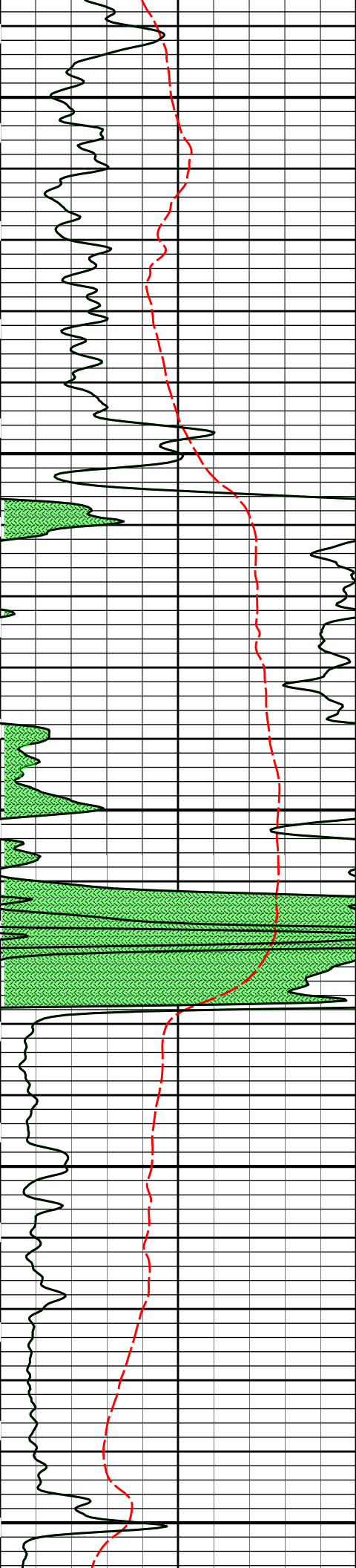
4850

4900

4950

5000





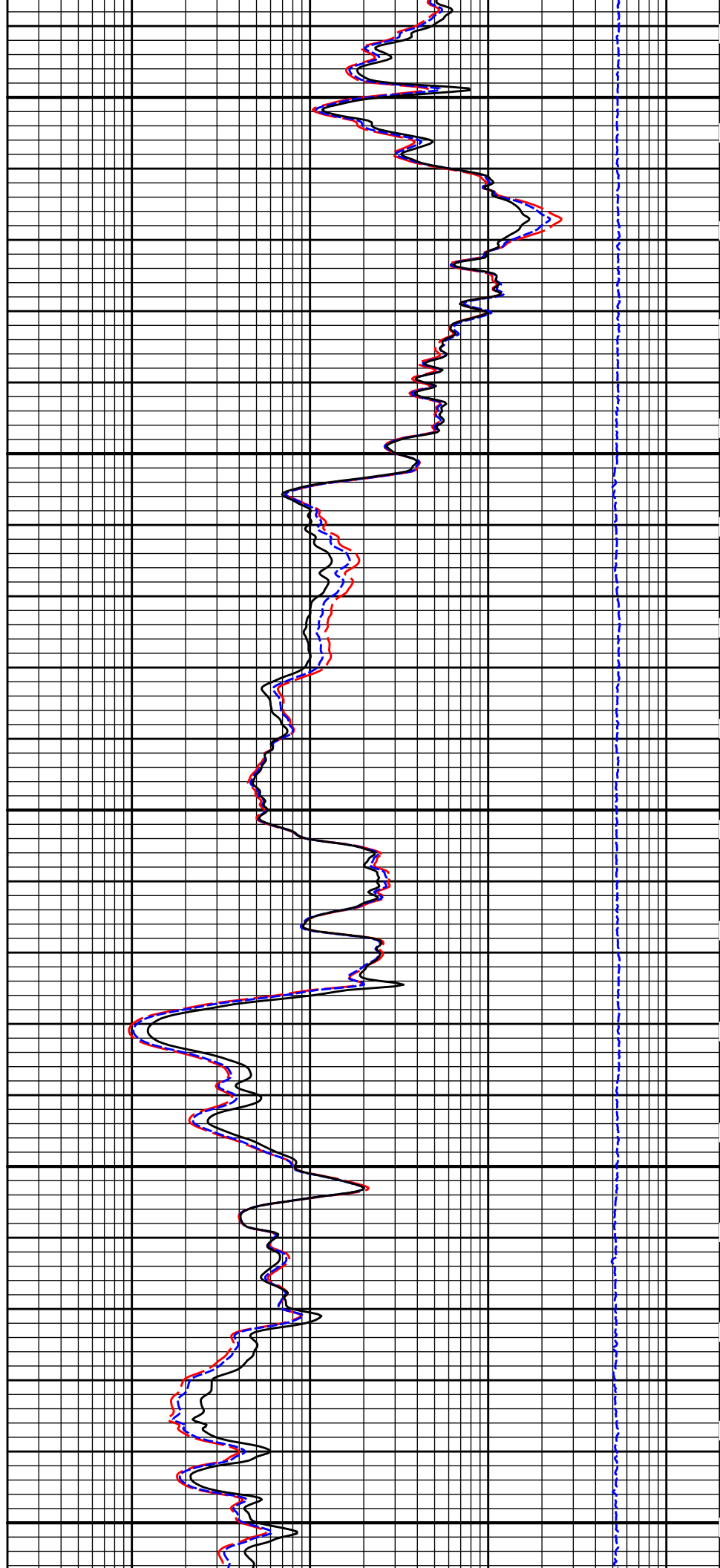
5050

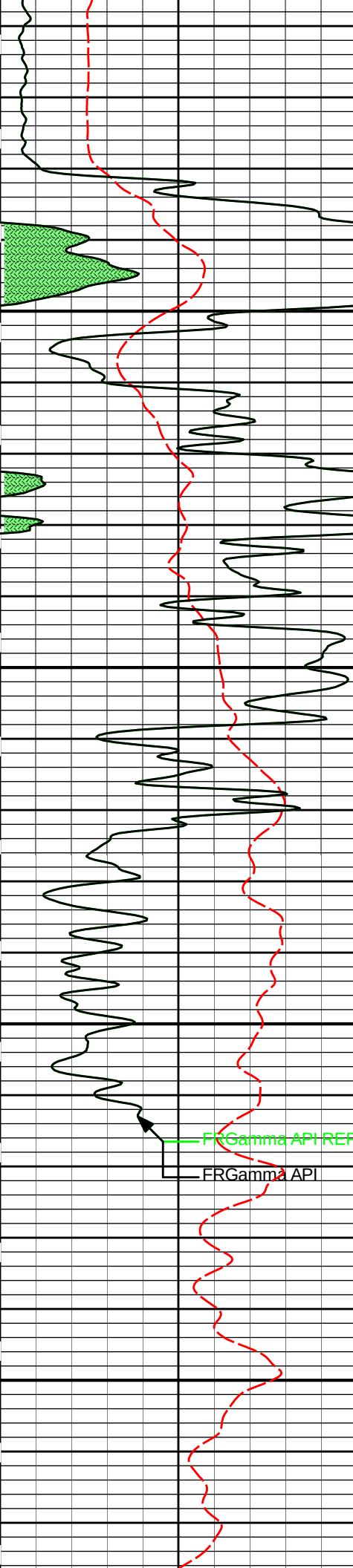
5100

5150

5200

5250





5300

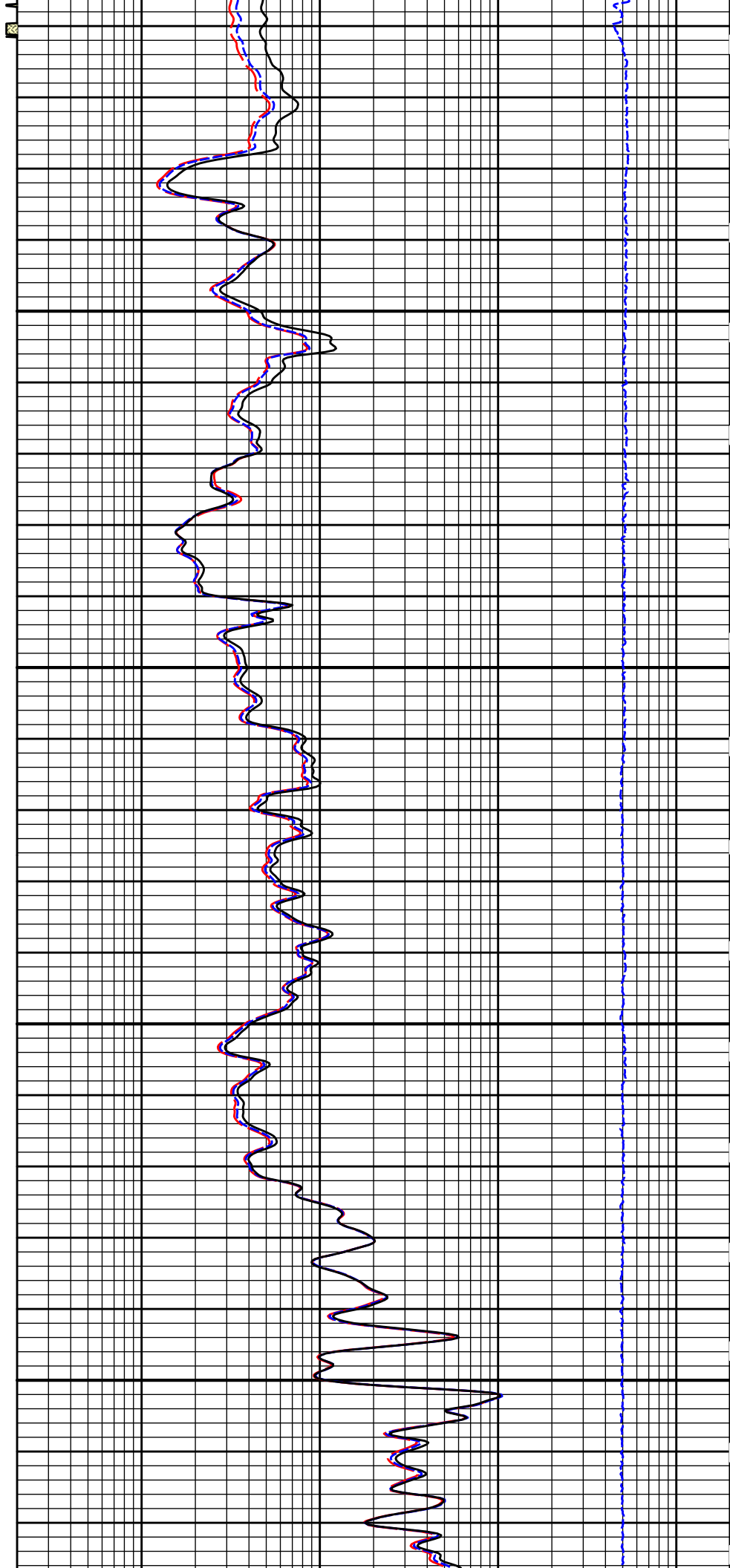
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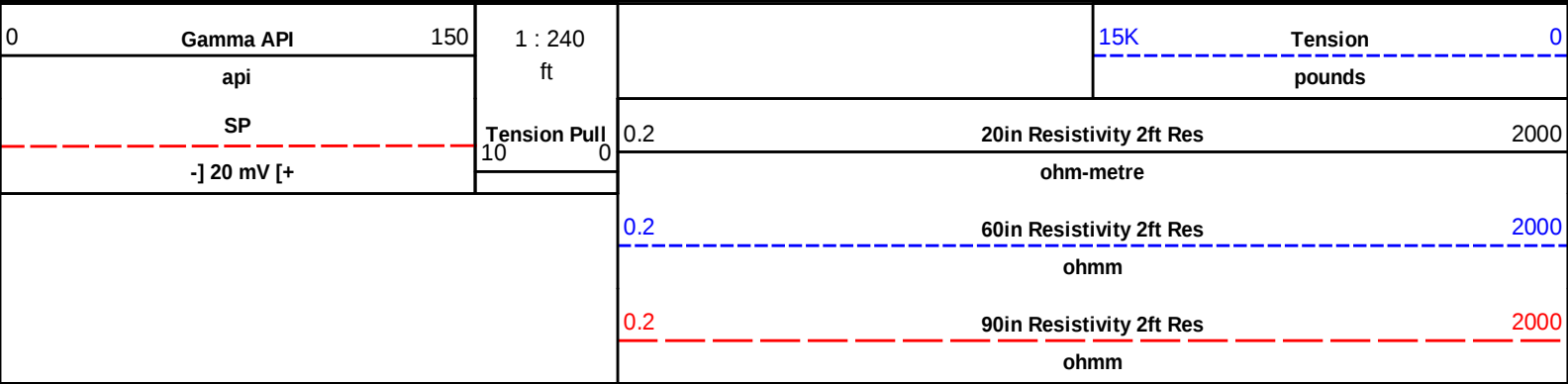
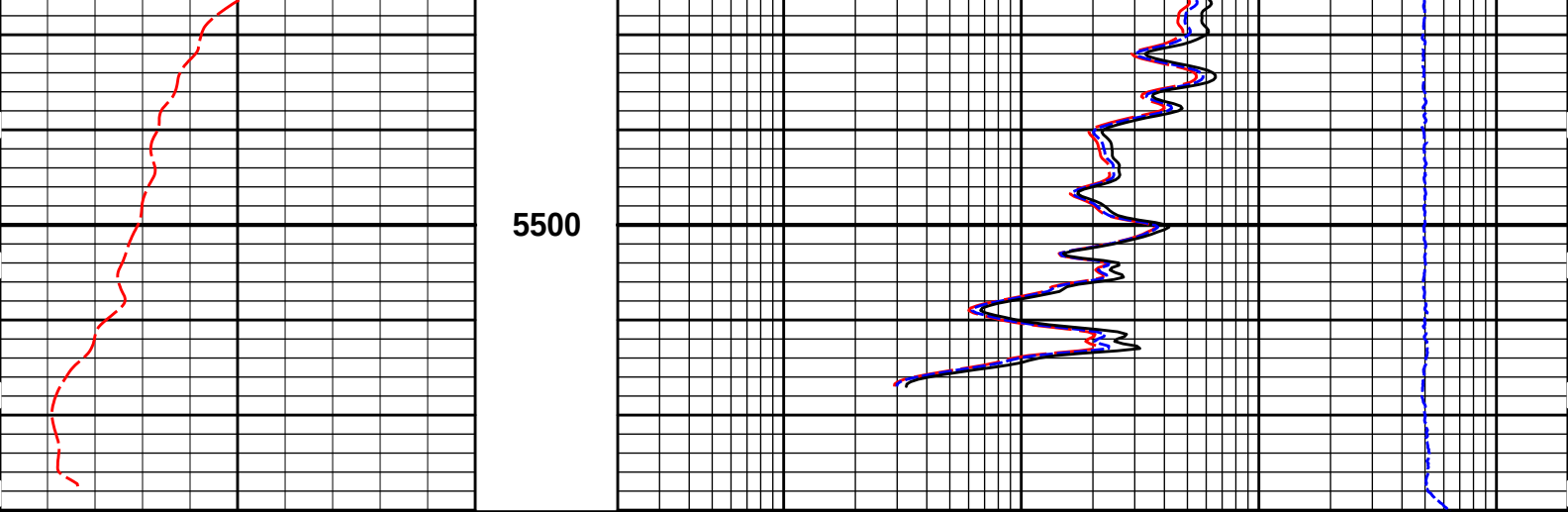
5400

5450

FRGamma API REPEAT

FRGamma API





HALLIBURTON

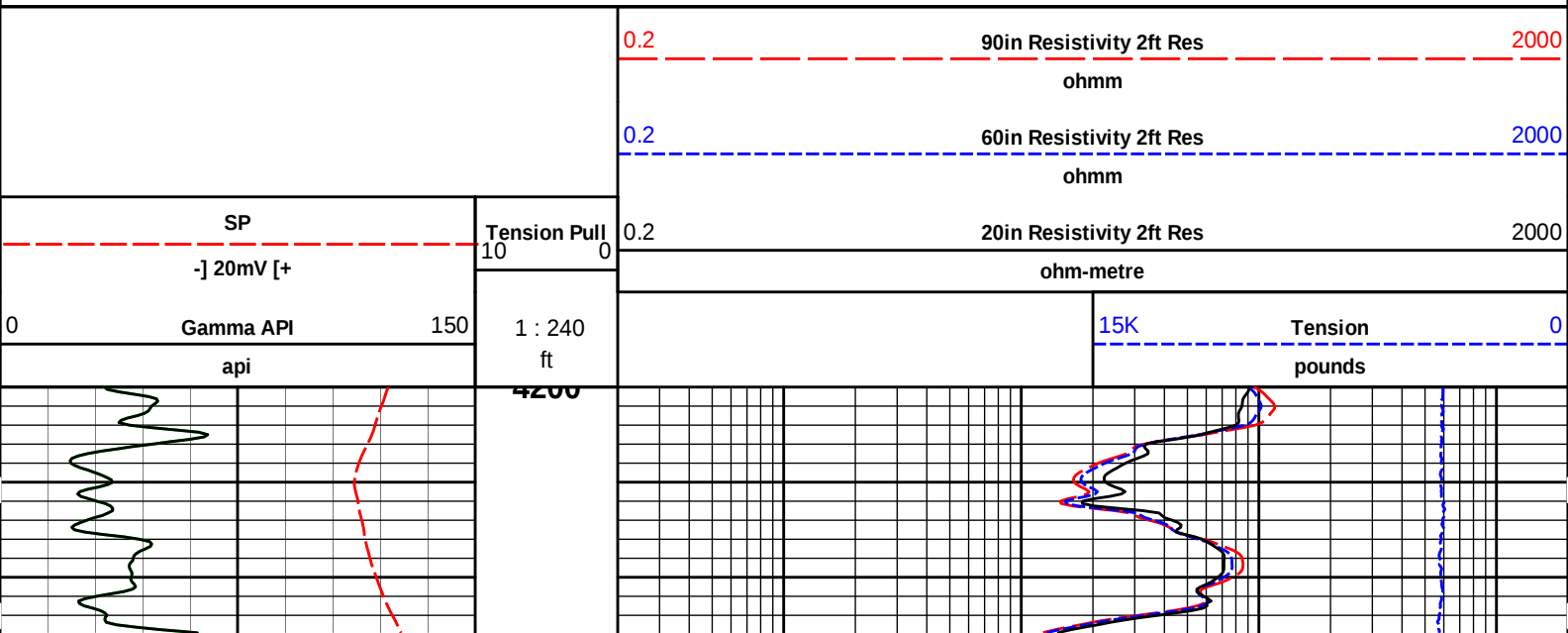
Plot Time: 08-Dec-14 12:28:44
Plot Range: 670 ft to 5530.17 ft
Data: SKYLER_RAE_SWD_Well Based*
Plot File: \\LOCAL-ISKYLER_RAE_SWD_10001 RED_TRIPLE_CSNG_WSTT_XRMI\ACRT1_1_ACRT_5_mainx

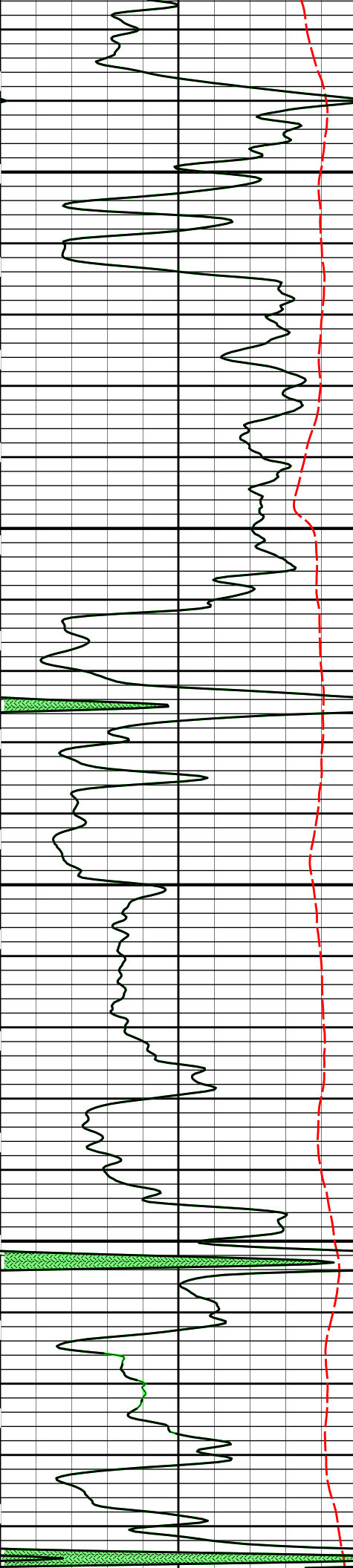
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 08-Dec-14 12:28:44
Plot Range: 4200 ft to 4500 ft
Data: SKYLER_RAE_SWD_Well Based\DAQ-0001-004\
Plot File: \\LOCAL-ISKYLER_RAE_SWD_10001 RED_TRIPLE_CSNG_WSTT_XRMI\ACRT1_1_ACRT_5_rptx

REPEAT SECTION



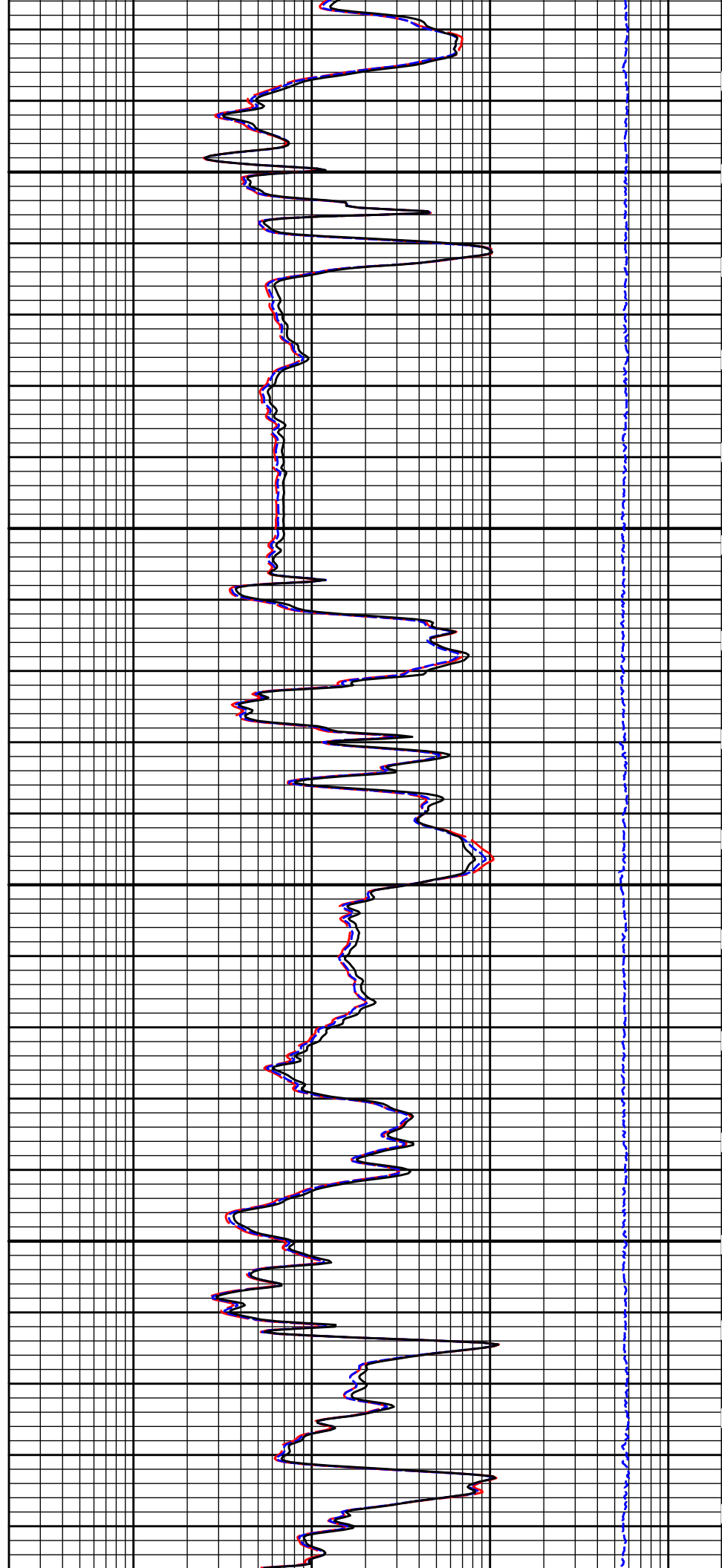


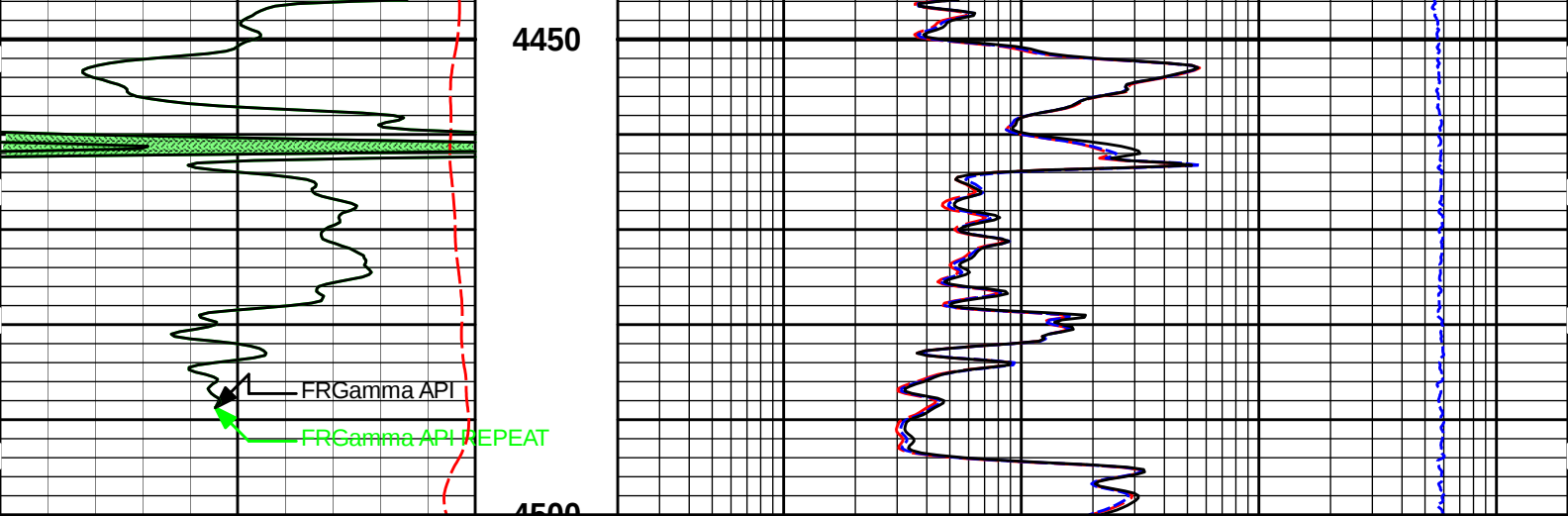
4250

4300

4350

4400





0	Gamma API	150	1 : 240 ft	15K	Tension	0
	api				pounds	
	SP		Tension Pull 10 0	0.2	20in Resistivity 2ft Res	2000
	-] 20mV [+]				ohm-metre	
				0.2	60in Resistivity 2ft Res	2000
					ohmm	
				0.2	90in Resistivity 2ft Res	2000
					ohmm	

HALLIBURTON

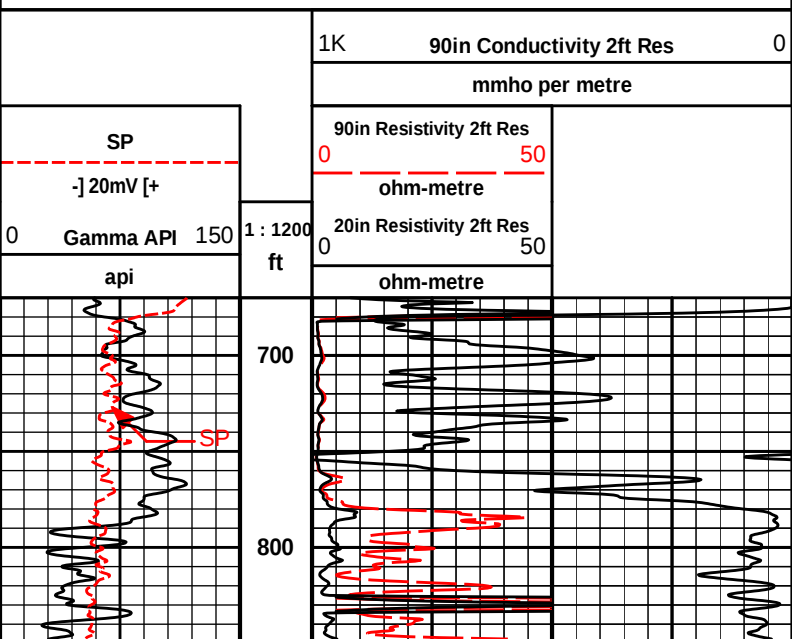
Plot Time: 08-Dec-14 12:28:46
Plot Range: 4200 ft to 4500 ft
Data: SKYLER_RAE_SWD_IWell Based\DAQ-0001-004\
Plot File: \\-LOCAL-ISKYLER_RAE_SWD_10001 RED_TRIPLE_CSNG_WSTT_XRMI\ACRT11_ACRT_5_rptx

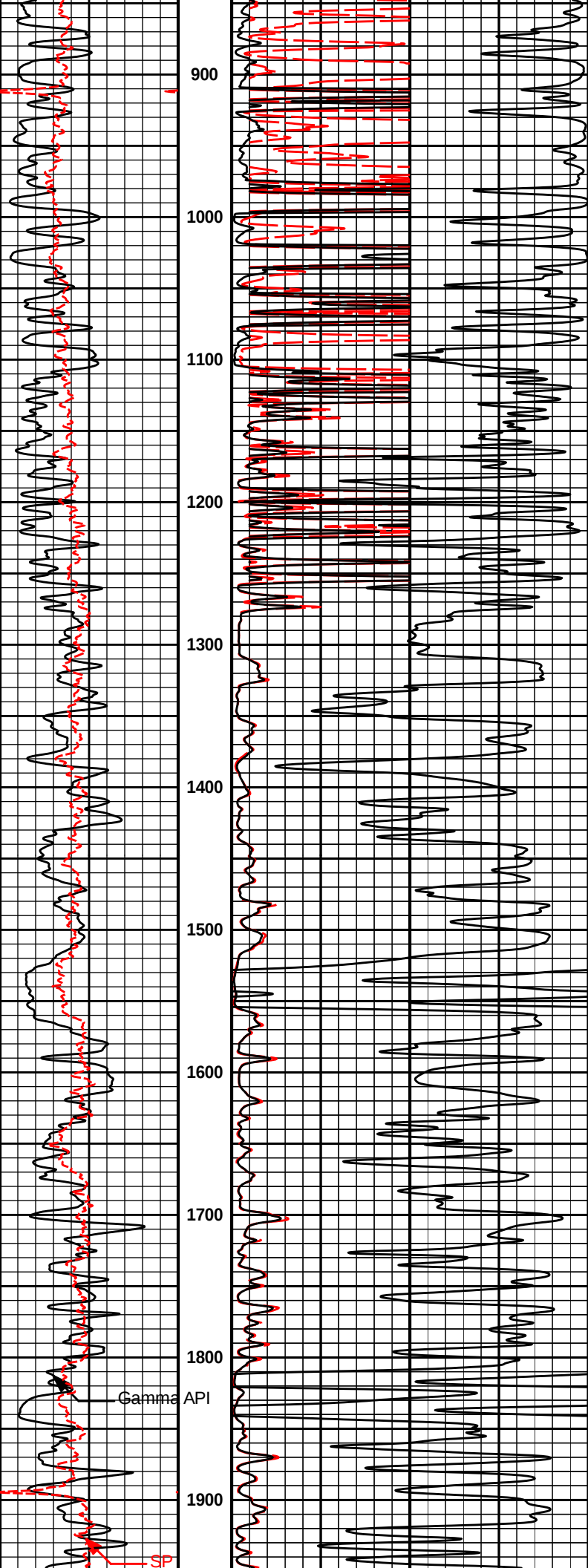
REPEAT SECTION

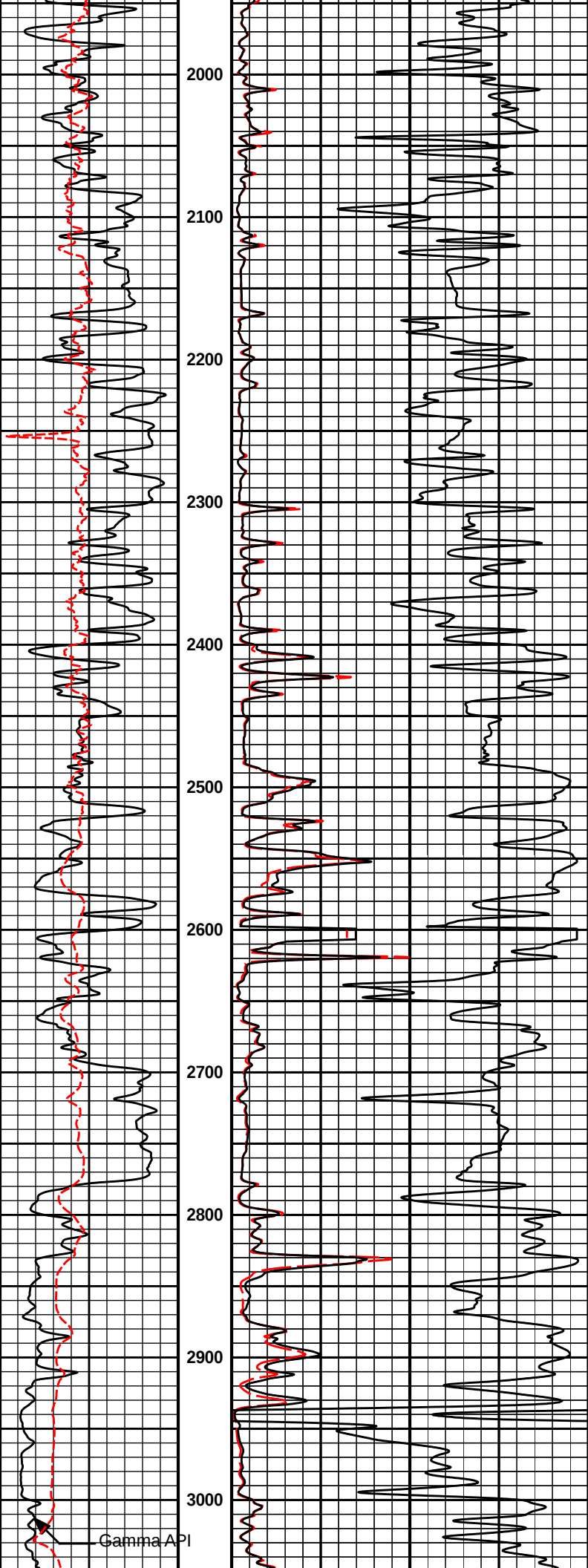
HALLIBURTON

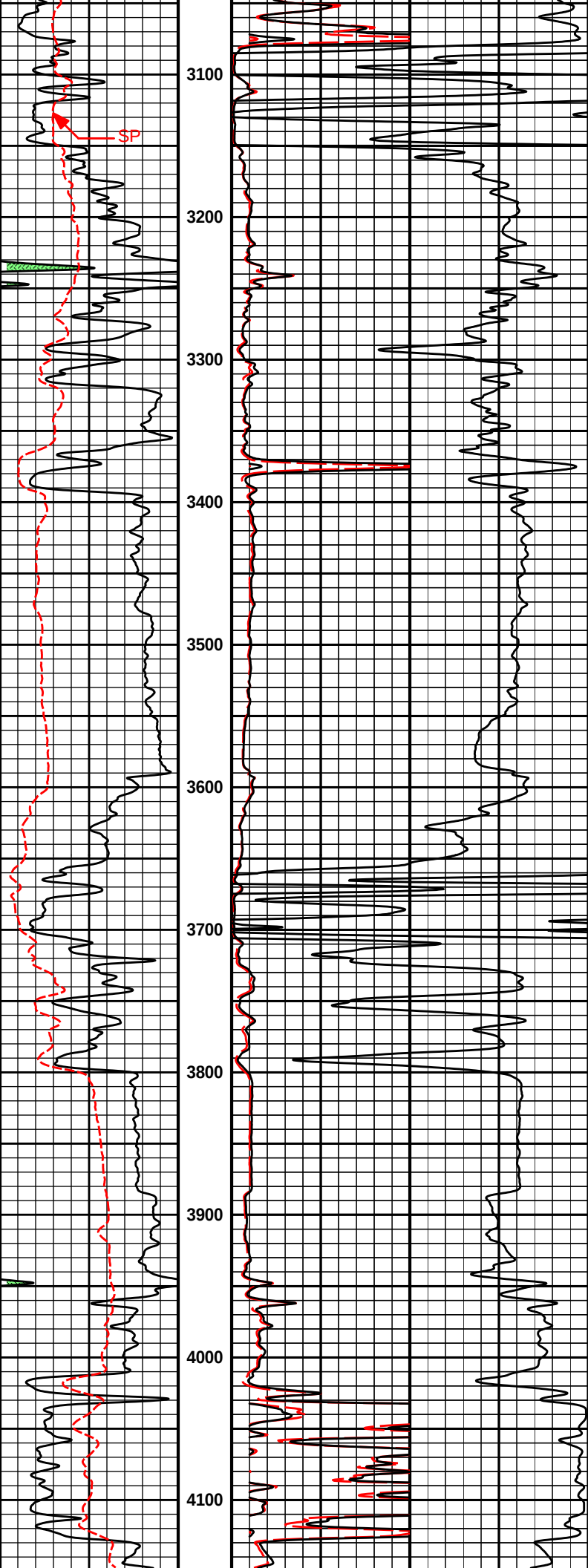
Plot Time: 08-Dec-14 12:28:46
Plot Range: 670 ft to 5527.25 ft
SKYLER_RAE_SWD_1...1...
Plot File: \\-LOCAL-ISKYLER_RAE_SWD_10001 RED_TRIPLE_CSNG_WSTT_XRMI\ACRT11_ACRT_5_rptx

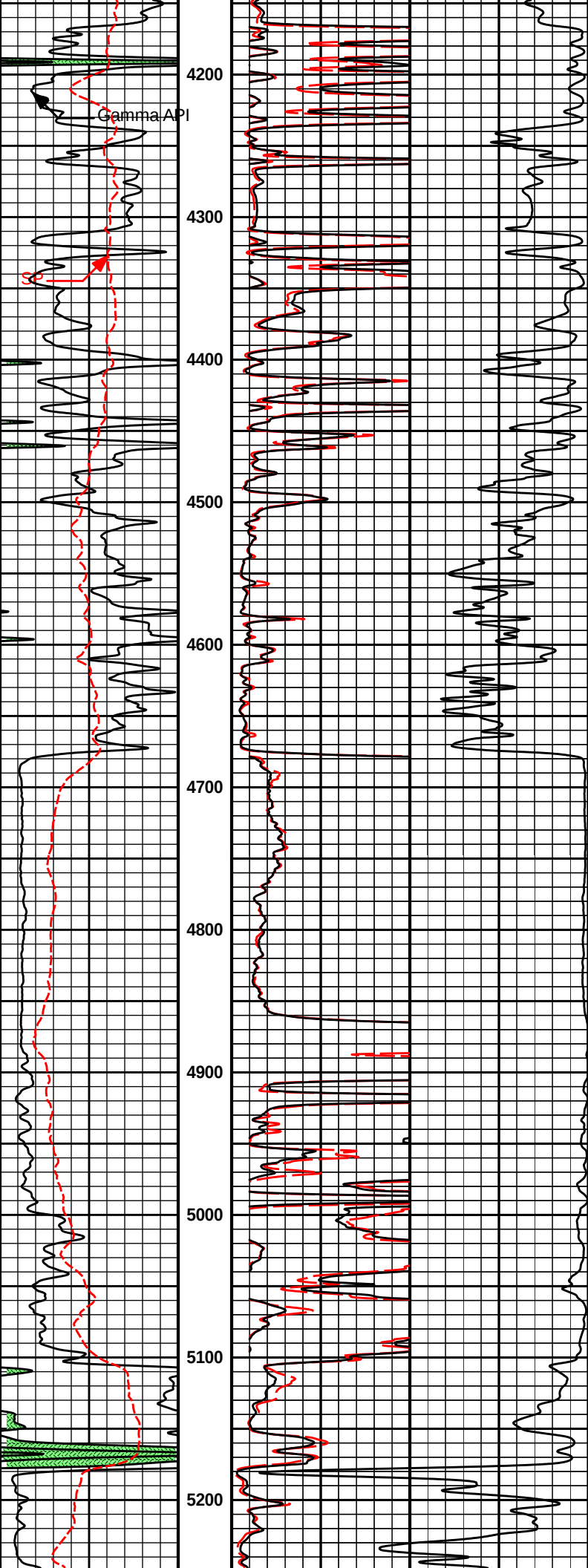
1 INCH MAIN LOG

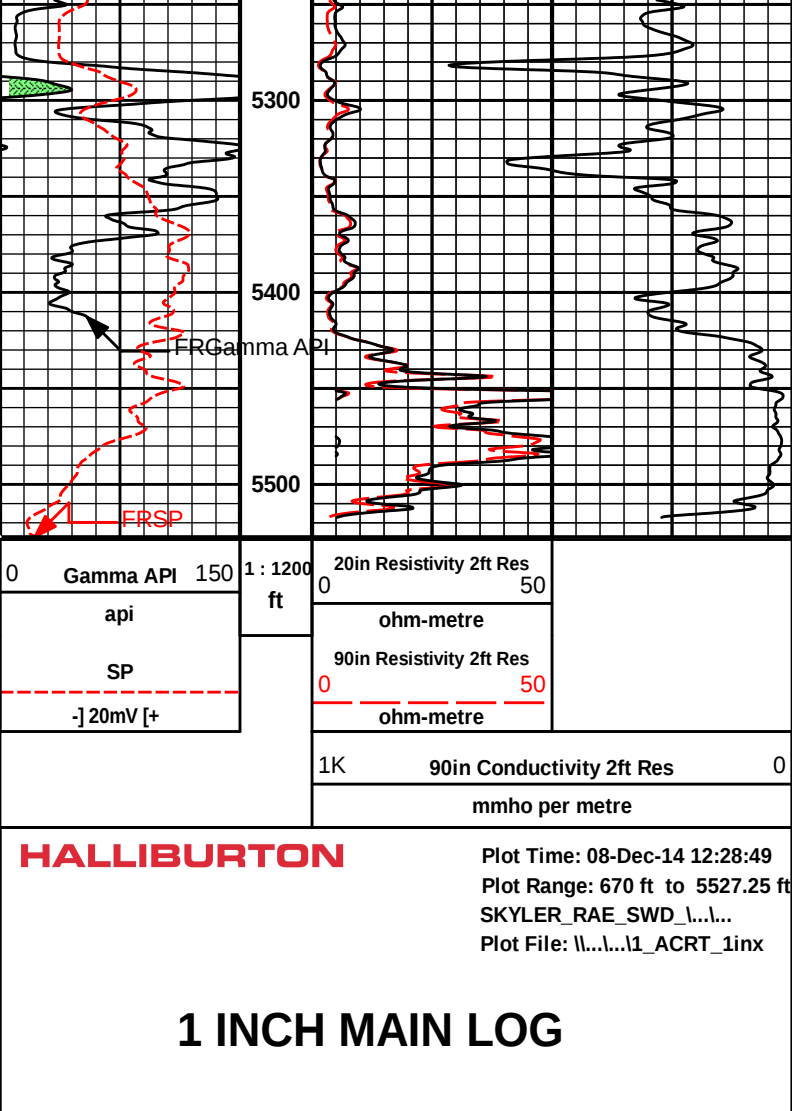












HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.100	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	0.430	ohmm
	SHARED	TRM	Temperature of Mud	69.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5555.00	ft
	SHARED	BHT	Bottom Hole Temperature	125.0	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	
	Rwa /	YDCK	Drill String Casing	Y	

	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	
	Rwa / CrossPlot	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
	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	
	GTET	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
	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	
	CSNG	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
	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	
	DSNT	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
	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
	SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
	Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
	WAVE Receivers	WSOK	Process WSTT?	Yes	
	WAVE Receivers	AFIL	Adaptive Filtering?	No	
	WAVE Receivers	PINT	Process 1 Sample and Skip	0	
	WAVE Receivers	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
	WAVE Receivers	DTSH	Delta -T Shale	100.00	uspf
	WAVE Receivers	DTMT	Delta -T Matrix Type	User define	

WAVE Receivers	DTMA	Delta -T Matrix	47.60	uspf
WAVE Receivers	DTFL	Delta -T Fluid	189.00	uspf
WAVE Receivers	RHOM	Matrix Density	2.7100	g/cc
WAVE Receivers	RHOF	Fluid Density	1.0000	g/cc
WAVE Receivers	SMTH	Semblance Threshold	0.25	
WAVE Receivers	VPVS	VPVS Ratio for Porosity	1.40	
WAVE Receivers	APEQ	Acoustic Porosity Equation	Wylie	
WAVE Receivers	NAVS	Navigation Source Tool	XRMI-I Instrument	
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	ALMT	Image Alignment Method	AZIM	
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	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
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	
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
ACRt Sonde	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
BOTTOM				
Data: SKYLER_RAE_SWD_I0001 RED_TRIPLE_CSNG_WSTT_XRMI007 04-Dec-14 03:30 Up @5530.3f			Date: 04-Dec-14 04:11:30	

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11021139Reference Calibration Date: 01-Jan-70 00:00:00
Engineer: CHRIS MARLOWECalibration Date: 02-Dec-14 22:57:07

Software Version: WL INSITE R4.2.0 (Build 2)				Calibration Version: 1			
Calibrator Source S/N: 181							
Calibrator API Reference:234.00 api							
Equivalent Calibrator API Reference:238.1 api							
Measurement		Measured		Calibrated		Units	
Background		33.7		33.7		api	
Background + Calibrator		271.8		271.8		api	
Calibrator		238.1		238.1		api	

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name: GTET - 11021139		Reference Calibration Date: 02-Dec-14 22:57:07	
Engineer: CHRIS MARLOWE		Calibration Date: 02-Dec-14 23:00:45	
Software Version: WL INSITE R4.2.0 (Build 2)		Calibration Version: 1	

Calibrator Source S/N: 181							
Calibrator API Reference:234.00 api							
Equivalent Calibrator API Reference:238.1 api							
Field Verification		Shop		Field		Units	
Background		33.7		33.1		api	
Background + Calibrator		271.8		268.9		api	
Calibrator		238.1		235.8		api	
Shop		Field		Difference		Tolerance	
238.1		235.8		2.3		+/- 9.00	

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name: ACRt Sonde - 11335202		Reference Calibration Date: 25-Jun-14 16:39:28	
Engineer: JOHN BOEVERS		Calibration Date: 10-Nov-14 16:47:07	
Software Version: WL INSITE R4.2.0 (Build 2)		Calibration Version: 1	
Host Tool Name: ACRt Instrument - 11302822			

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0513	1.05	0.95	1.0308	1.05	0.95	1.0231	1.05
A2 (50")	0.95	1.0472	1.05	0.95	1.0286	1.05	0.95	1.0231	1.05
A3 (29")	0.95	1.0527	1.05	0.95	1.0334	1.05	0.95	1.0266	1.05
A4 (17")	0.95	1.0428	1.05	0.95	1.0183	1.05	0.95	1.0125	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0100	1.05	0.95	1.0041	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.0198	1.05	0.95	1.0134	1.05

SONDE OFFSET						
Subarray	R12KHz		R36KHz		R72KHz	
	(mmho/m)		(mmho/m)		(mmho/m)	
A1 (80")	3.526		-2.776		-6.236	
A2 (50")	0.018		-4.338		-4.358	
A3 (29")	-11.828		-4.381		-3.137	
A4 (17")	-100.046		-31.094		-25.736	
A5 (10")	N/A		-106.582		-51.220	
A6 (6")	N/A		339.348		170.119	

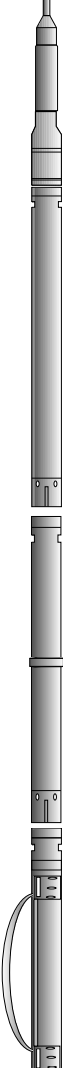
TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)

12K	0.6	0.90	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.83	2.0				
72K	1.0	1.12	2.0				
PASS/FAIL SUMMARY GAIN RANGE CHK FAIL SONDE OFFSET CHK PASS TOOL OUT OF TOLERANCE							

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11021139						
Gamma Ray Calibrator	238.1	235.8	-----	2.3	+/- 9.00	api
ACRt Sonde-11335202						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: SKYLER_RAE_SWD_I0001 RED_TRIPLE_CSNG_WSTT_XRMII007 04-Dec-14 03:30 Up @5530.3f					Date: 04-Dec-14 04:26:44	

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-RED 37.50 lbs		Ø 2.750 in →		← Temperature @ 125.23 ft	3.03 ft	126.26 ft
XOHD-12345678 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	123.23 ft
						122.28 ft
GTET-11021139 165.00 lbs		Ø 3.625 in →		← GammaRay @ 116.22 ft	8.52 ft	
						113.76 ft
CSNG-10836164 114.00 lbs	UnivWearRing3.6-10836164 5.00 lbs	Ø 4.200 in* → Ø 3.625 in →		← CSNG @ 108.13 ft	8.17 ft	
						105.59 ft
DSNT-11020487 174.00 lbs	DSN Decentralizer-11020487 6.60 lbs	Ø 5.000 in* → Ø 3.625 in →			9.69 ft	

SDLT-10960494
360.00 lbs

SDLT Pad-10844774
65.00 lbs

Microlog Pad-10960494
8.00 lbs

Flex Joint-12345678
140.00 lbs

WAVE Upper
Electronics-
00000000
151.50 lbs

Centralizer 25-12345678
8.00 lbs

WAVE Trans-
Isolator - Std-
00000001
277.00 lbs

WAVE Receivers-
10650265
135.00 lbs

WAVE Lower
Electronics-
00000000
146.50 lbs

Centralizer 25-11111111
8.00 lbs

XRMI Isolator-
12345678

Ø 4.500 in →

Ø 4.750 in* →

Ø 4.750 in* →

Ø 3.625 in →

Ø 3.625 in →

Ø 4.000 in* →

Ø 3.625 in →

Ø 3.625 in →

Ø 4.000 in* →

Ø 3.625 in →

Ø 4.500 in →

← DSN Far @ 98.66 ft

← DSN Near @ 97.91 ft

Microlog @ 88.09 ft

SDL Caliper @ 87.91 ft

SDL @ 87.90 ft

← Wavesonic Delay @ 56.79 ft

10.81 ft

5.67 ft

8.33 ft

10.88 ft

6.67 ft

8.25 ft

1.30 ft

95.91 ft

85.09 ft

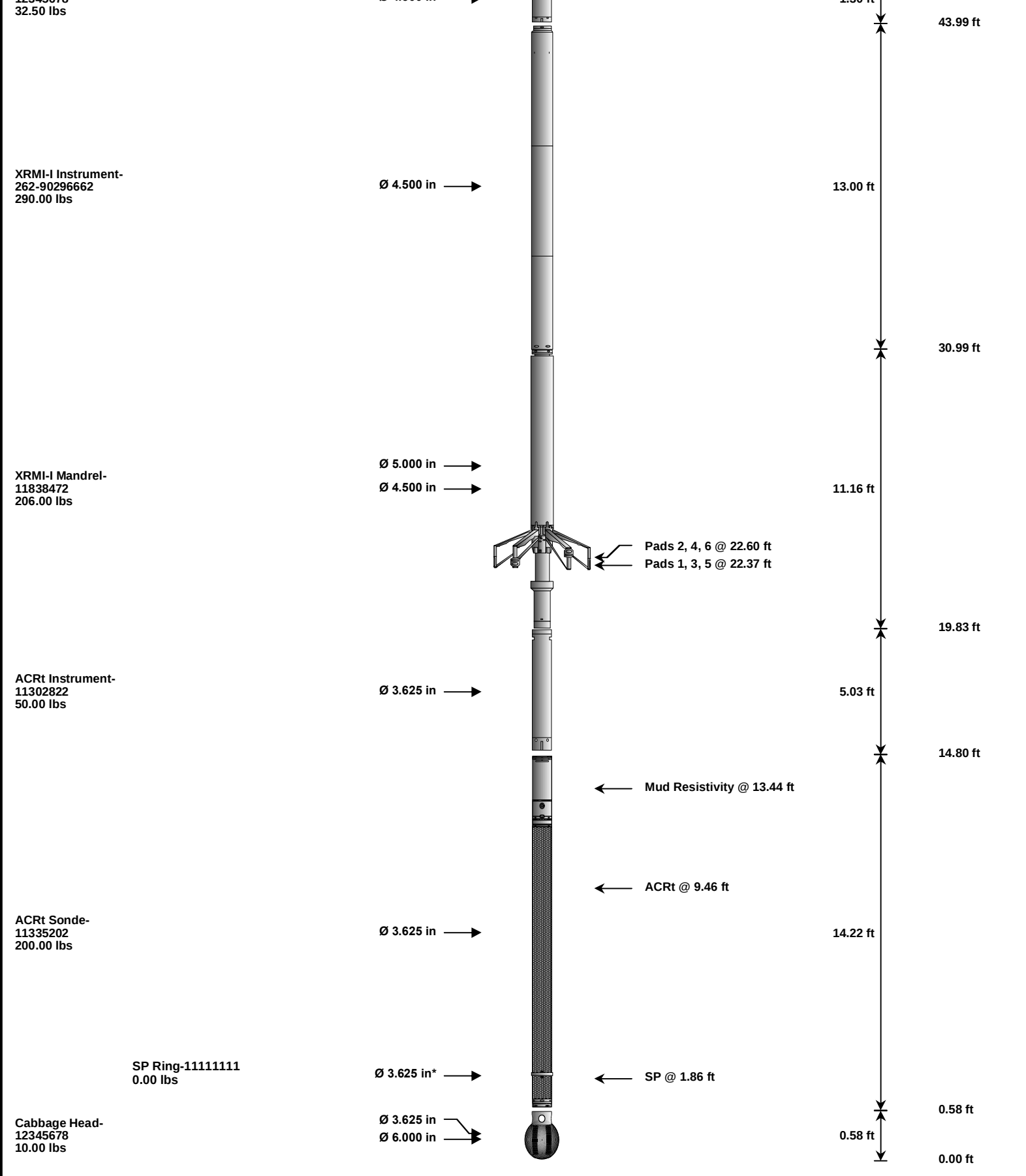
79.42 ft

71.09 ft

60.21 ft

53.54 ft

45.29 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	RED	37.50	3.03	123.23	300.00
XOHD	Hostile to Dits Cross Over	12345678	20.00	0.95	122.28	300.00
GTET	Gamma Telemetry Tool	11021139	165.00	8.52	113.76	60.00
CSNG	Compensated Spectral Natural Gamma	10836164	114.00	8.17	105.59	15.00
UWR3P6	Universal Wear Ring 3 5-8 inch	10836164	5.00	0.35	* 109.67	300.00
DSNT	Dual Spaced Neutron	11020487	174.00	9.69	95.91	60.00
DCNT	DSN Decentralizer	11020487	6.60	5.13	* 99.24	300.00

SDLT	Spectral Density Tool	10960494	360.00	10.81	85.09	60.00
SDLP	Density Insite Pad	10844774	65.00	2.55 *	87.30	60.00
MICP	Microlog Pad	10960494	8.00	1.00 *	87.59	60.00
FLEX	Flex Joint	12345678	140.00	5.67	79.42	300.00
WSTT	WAVE Transmitter Electronics - Insite	00000000	151.50	8.33	71.09	100.00
OBCEN	Centralizer - 25 in. Overbody	12345678	8.00	2.08 *	74.00	300.00
WTIS	WAVE Standard Transmitter - Standard Isolator	00000001	277.00	10.88	60.21	100.00
WSTT	WAVE Receiver Section - Offset Dipole	10650265	135.00	6.67	53.54	30.00
WSTT	WAVE Lower Electronics - Insite	00000000	146.50	8.25	45.29	100.00
OBCEN	Centralizer - 25 in. Overbody	11111111	8.00	2.08 *	49.00	300.00
	Isolator for the XRF tool	12345678	32.50	1.30	43.99	300.00
XRF	XRF Navigation - Insite	262-90296662	290.00	13.00	30.99	30.00
XRF-I	XRF Imager - Insite	11838472	206.00	11.16	19.83	30.00
ACRT	Array Compensated True Resistivity Instrument Section	11302822	50.00	5.03	14.80	120.00
ACRT	Array Compensated True Resistivity Sonde Section	11335202	200.00	14.22	0.58	120.00
SP	SP Ring	11111111	0.00	0.25 *	1.86	300.00
CBHD	Cabbage Head	12345678	10.00	0.58	0.00	300.00
Total			2,609.60	126.26		

* Not included in Total Length and Length Accumulation.

Data: SKYLER_RAE_SWD_I0001 RED_TRIPLE_CSNG_WSTT_XRFI007 04-Dec-14 03:30 Up @5530.3f

Date: 04-Dec-14 04:11:58

COMPANY	SANDRIDGE ENERGY INC		
WELL	SKYLER RAE SWD 3505 1-3		
FIELD	WILLTEX NORTH		
COUNTY	HARPER	STATE	KS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	