

HALLIBURTON										ARRAY COMPENSATED TRUE RESISTIVITY LOG									
SANDRIDGE ENERGY WRIGLEY 1-11 SWD WILDCAT HARPER KANSAS					COMPANY SANDRIDGE ENERGY WELL WRIGLEY 1-11 SWD FIELD WILDCAT COUNTY HARPER STATE KANSAS					Other Services: MRIL ICT IDT SDLT, DSNT WSTT MICROLOG									
COMPANY					Sect. 11					Twp. 35S					Rge. 8W				
WELL					GL					Elev. 1271.0 ft					D.F. 1287.0 ft				
FIELD					KB					16.0 ft above perm. Datum					D.F. 1286.0 ft				
COUNTY					KB										G.L. 1271.0 ft				
COUNTY					API No. 15-077-21849														
COUNTY					Location 155' FNL & 349' FEL														
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Service Ticket No.: 9560355						API Serial No.: 15-077-21849						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.				@				@						I5059_S8385															
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.		11048627				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**

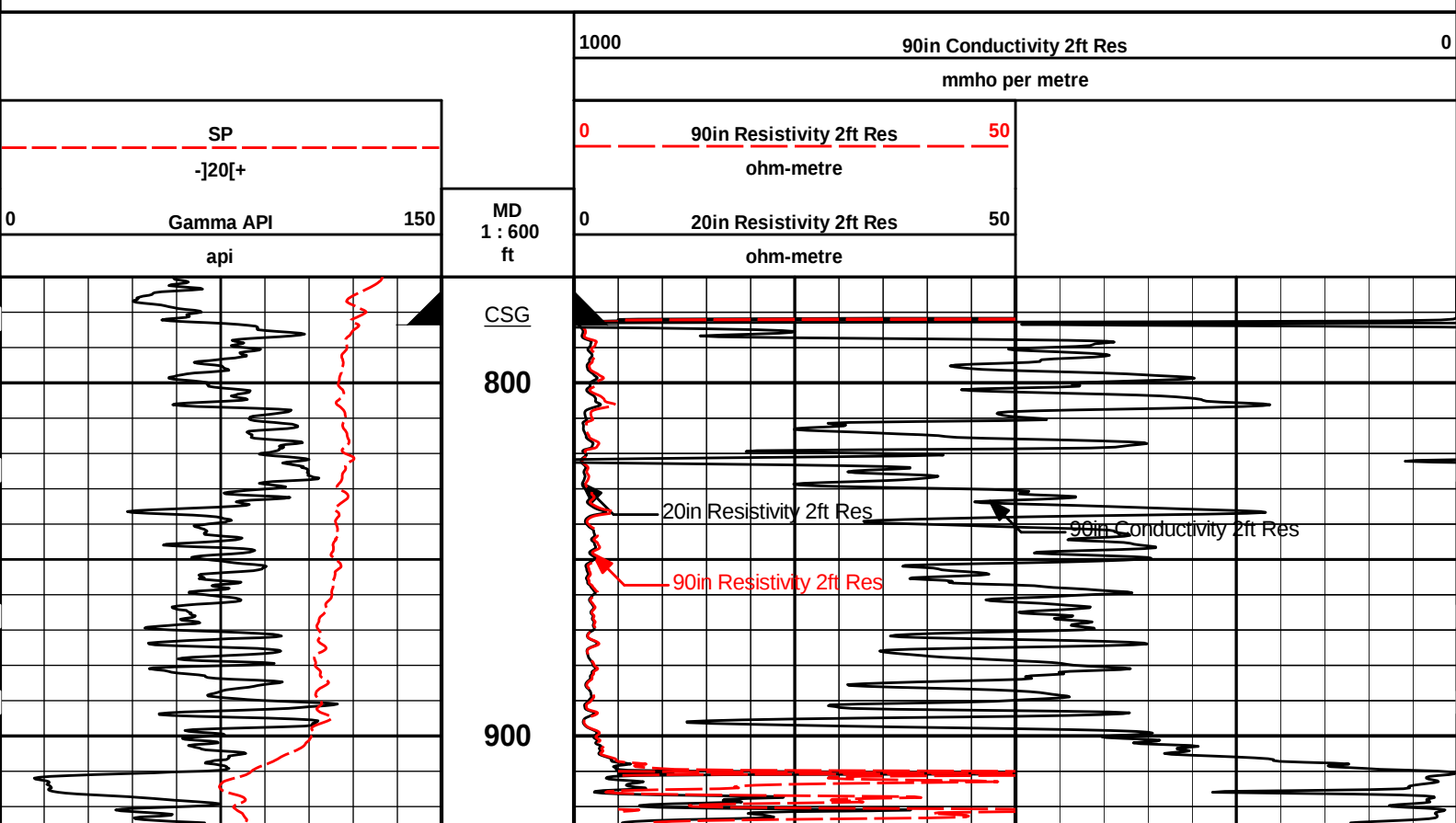
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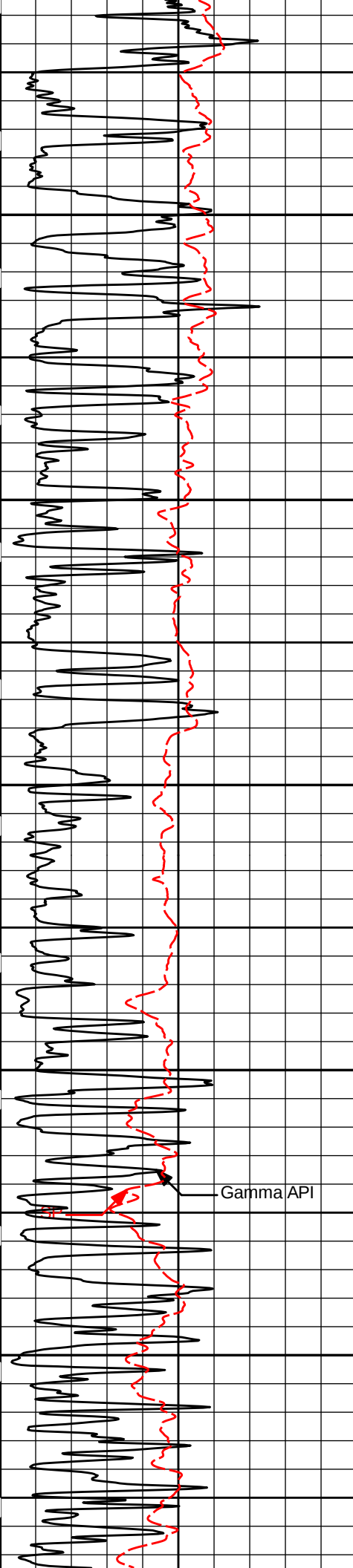
Plot Range: 770 ft to 5643.42 ft

Data: WRIGLEY 1 11 SW\Well Based\CASING\

Plot File: \\-LOCAL-I\WRIGLEY 1 11 SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\ACRT\ACRT 2 lib

2 INCH MAIN LOG





1000

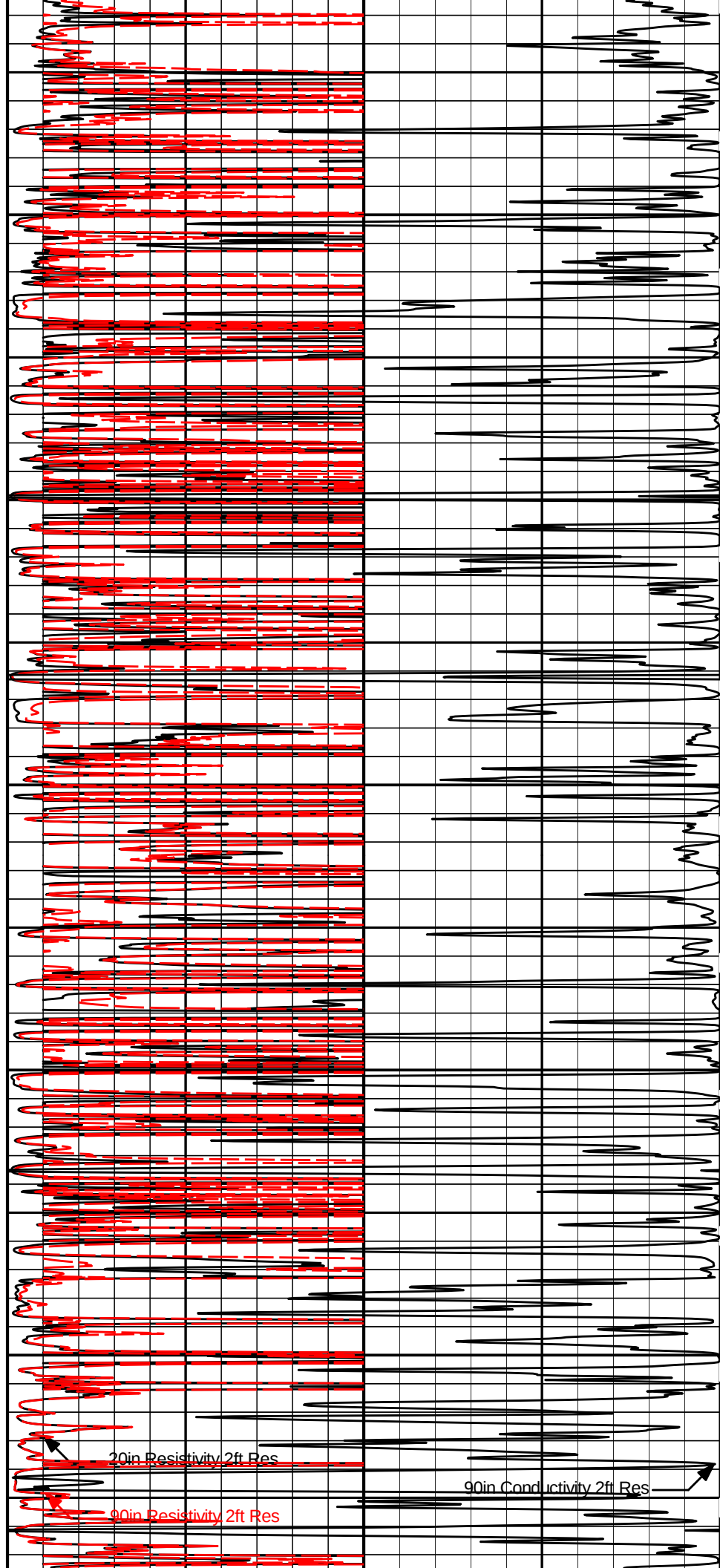
1100

1200

1300

1400

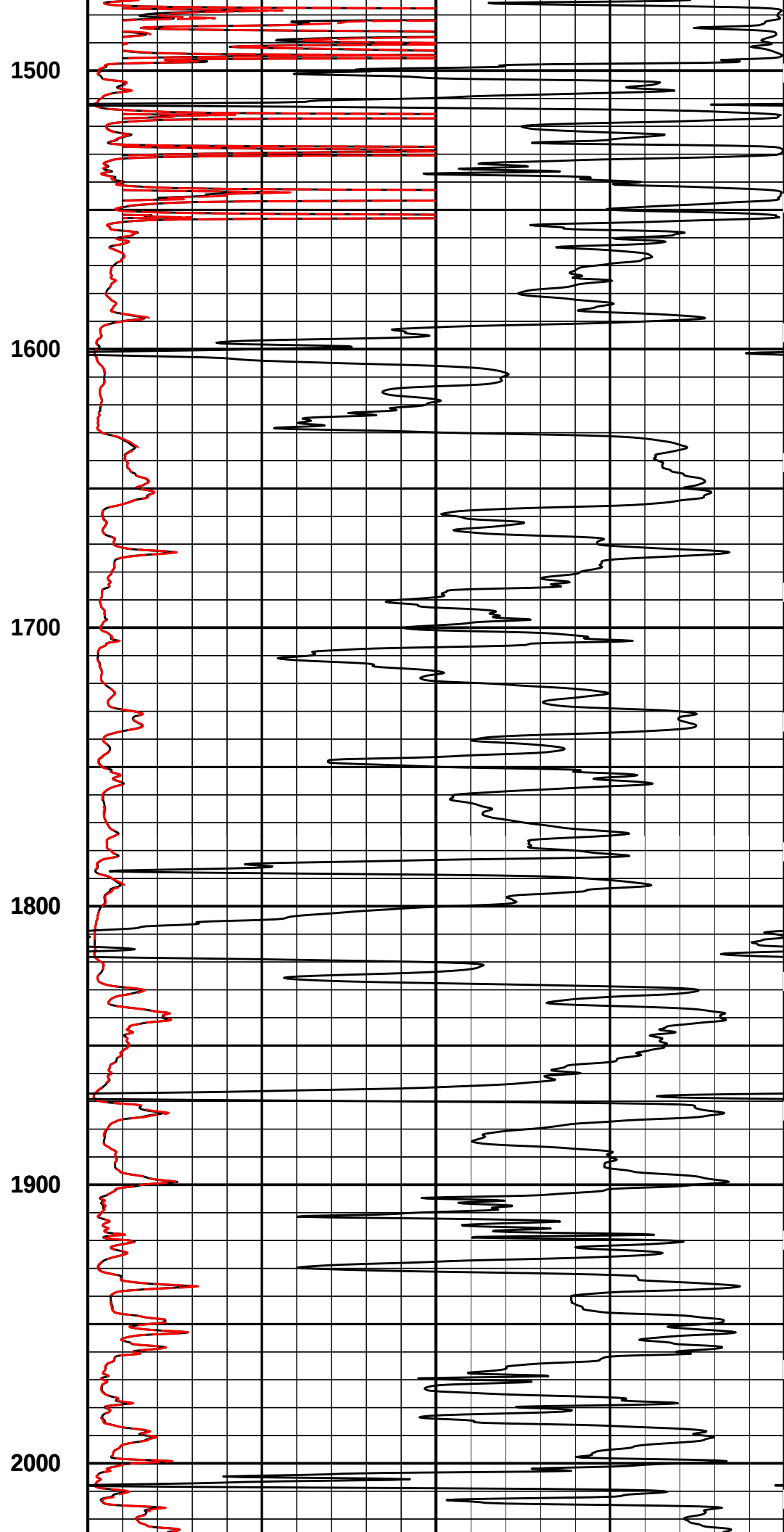
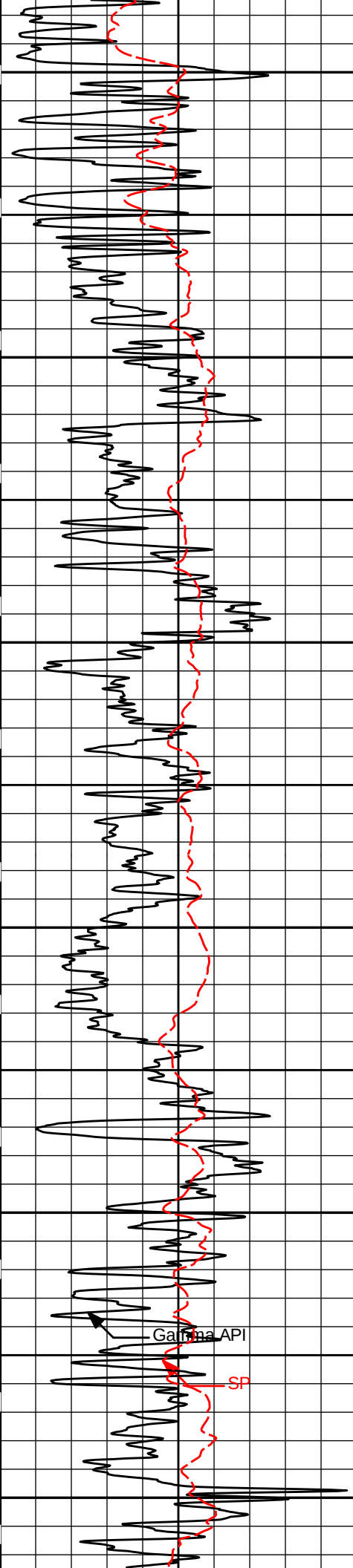
Gamma API

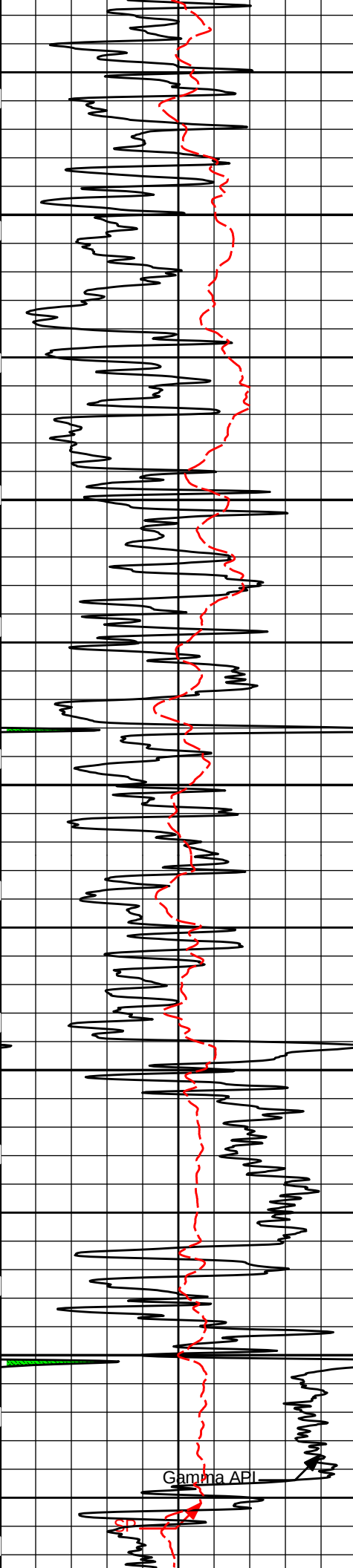


20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res





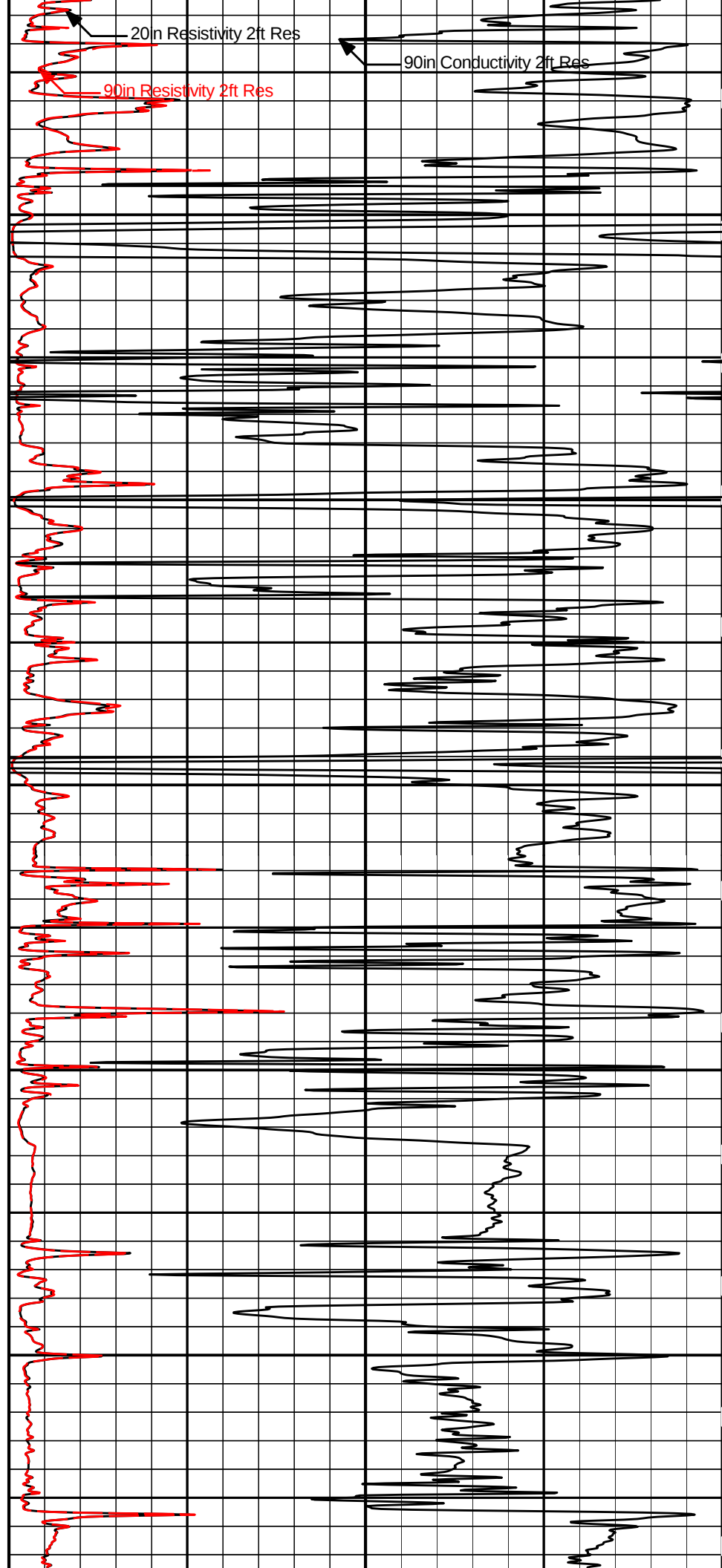
2100

2200

2300

2400

2500



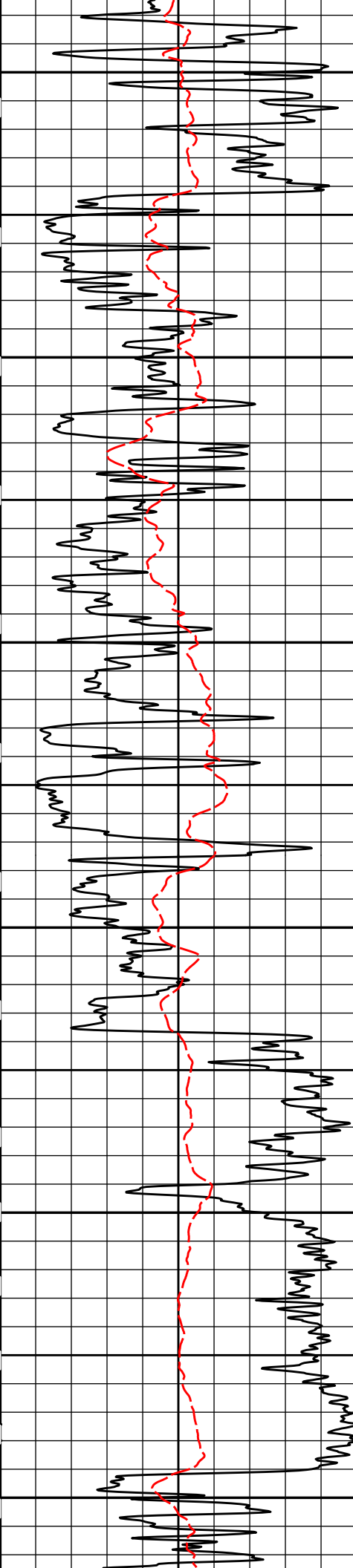
20in Resistivity 2ft Res

90in Conductivity 2ft Res

90in Resistivity 2ft Res

Gamma API

90in



2600

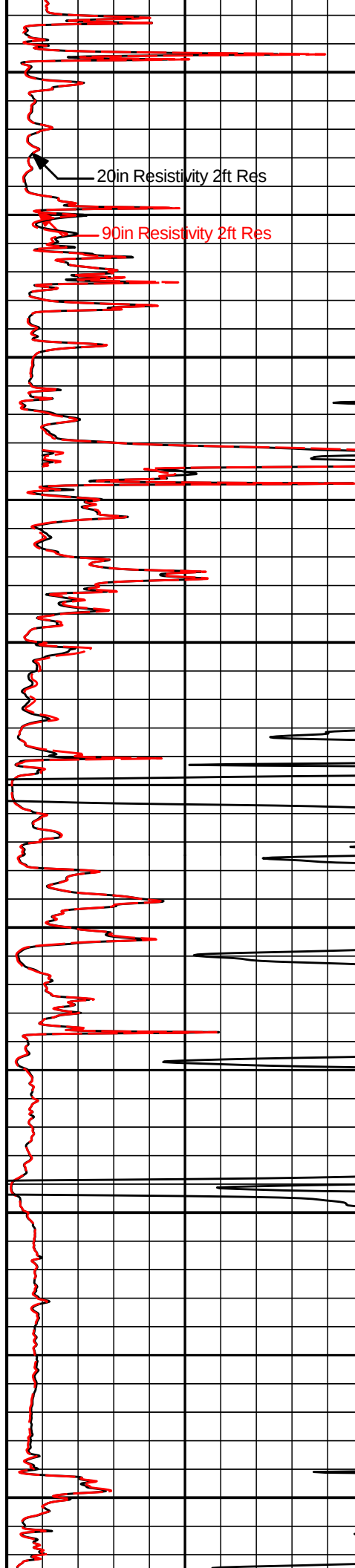
2700

2800

2900

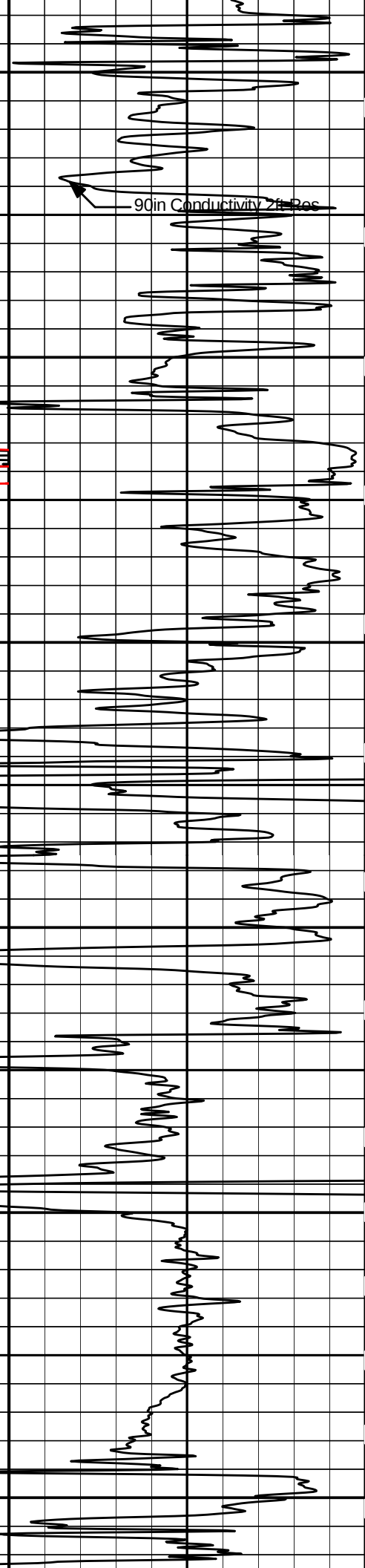
3000

3100

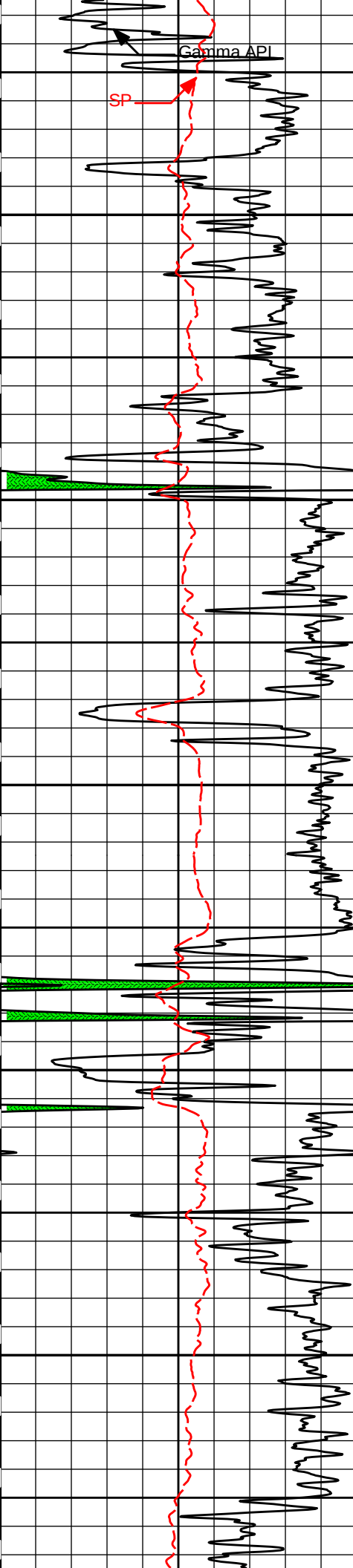


20in Resistivity 2ft Res

90in Resistivity 2ft Res



90in Conductivity 2ft Res



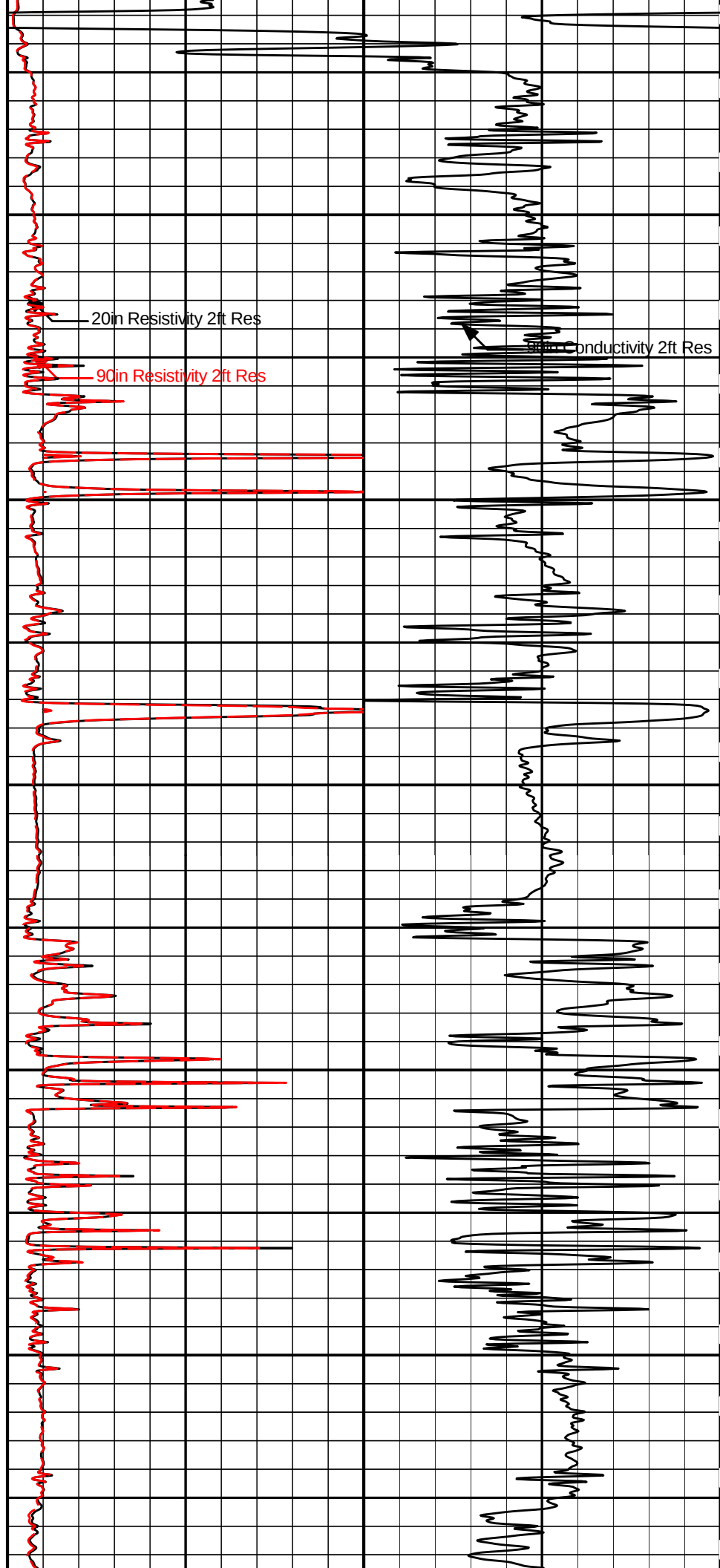
3200

3300

3400

3500

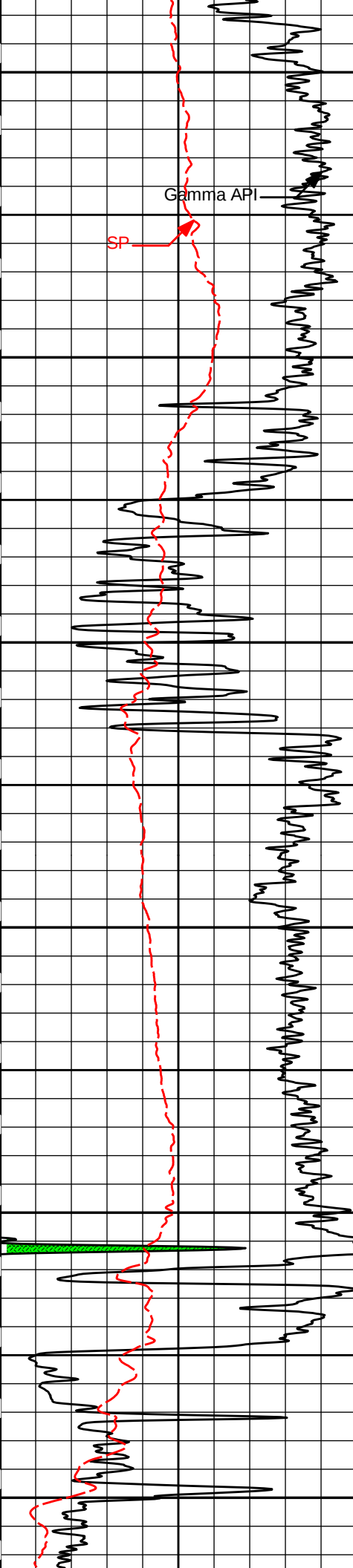
3600



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



3700

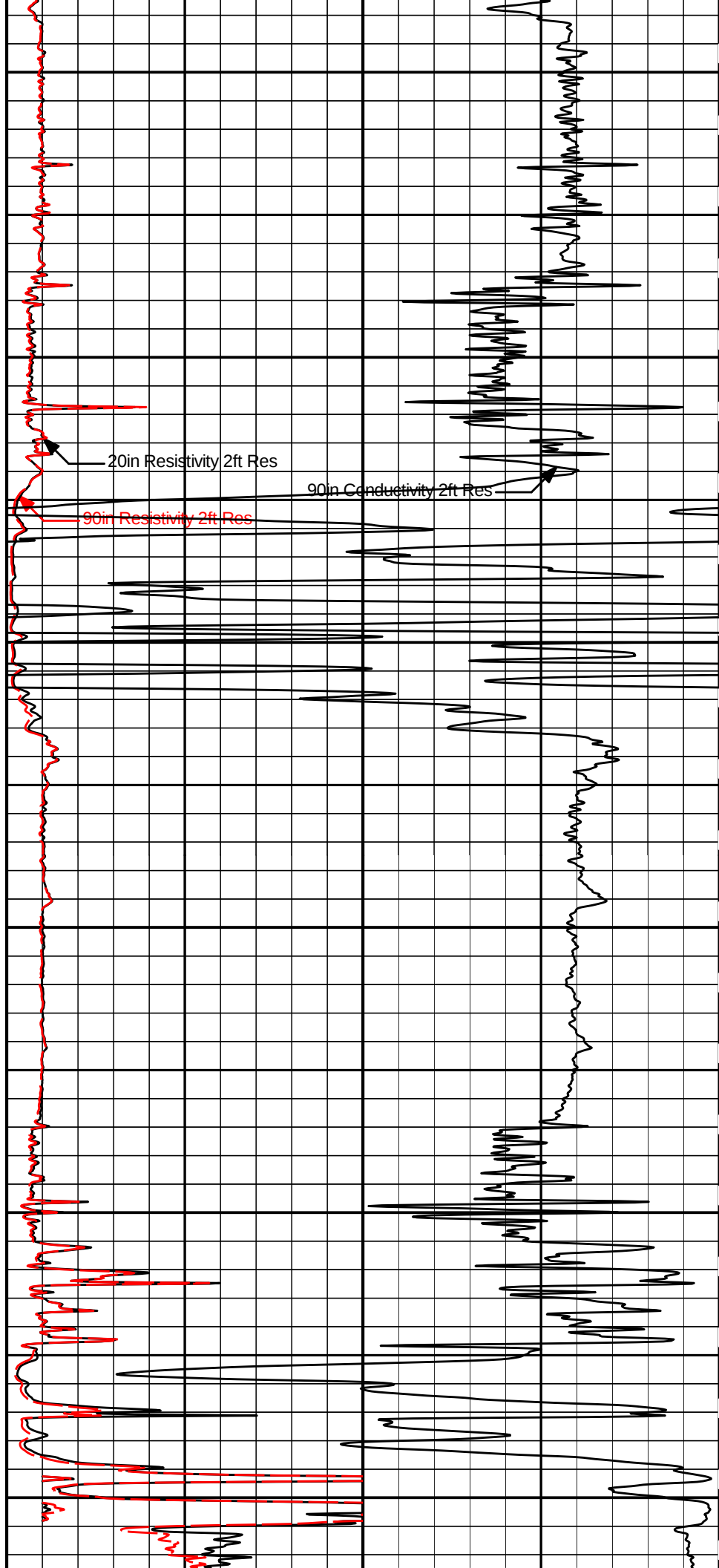
3800

3900

4000

4100

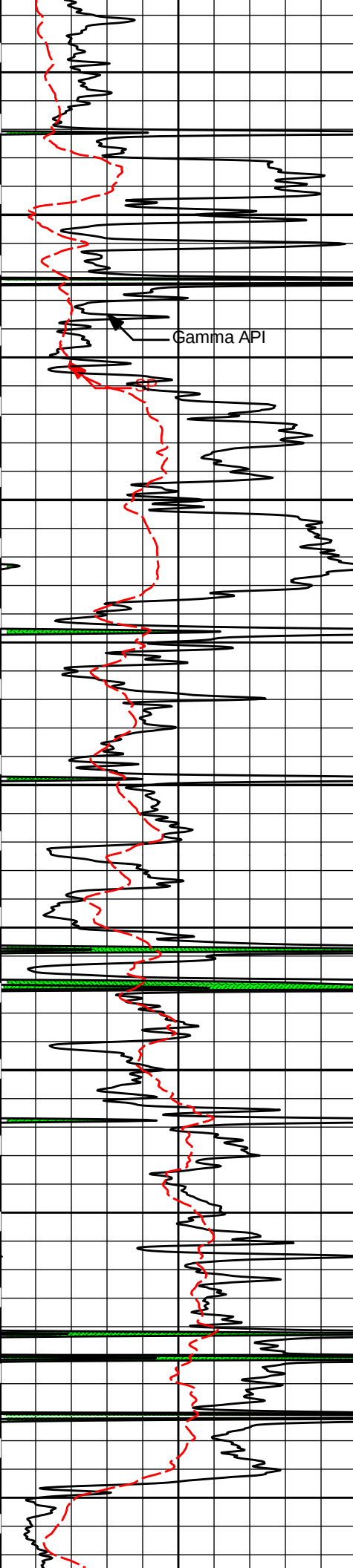
4200



20in Resistivity 2ft Res

90in Conductivity 2ft Res

90in Resistivity 2ft Res



4300

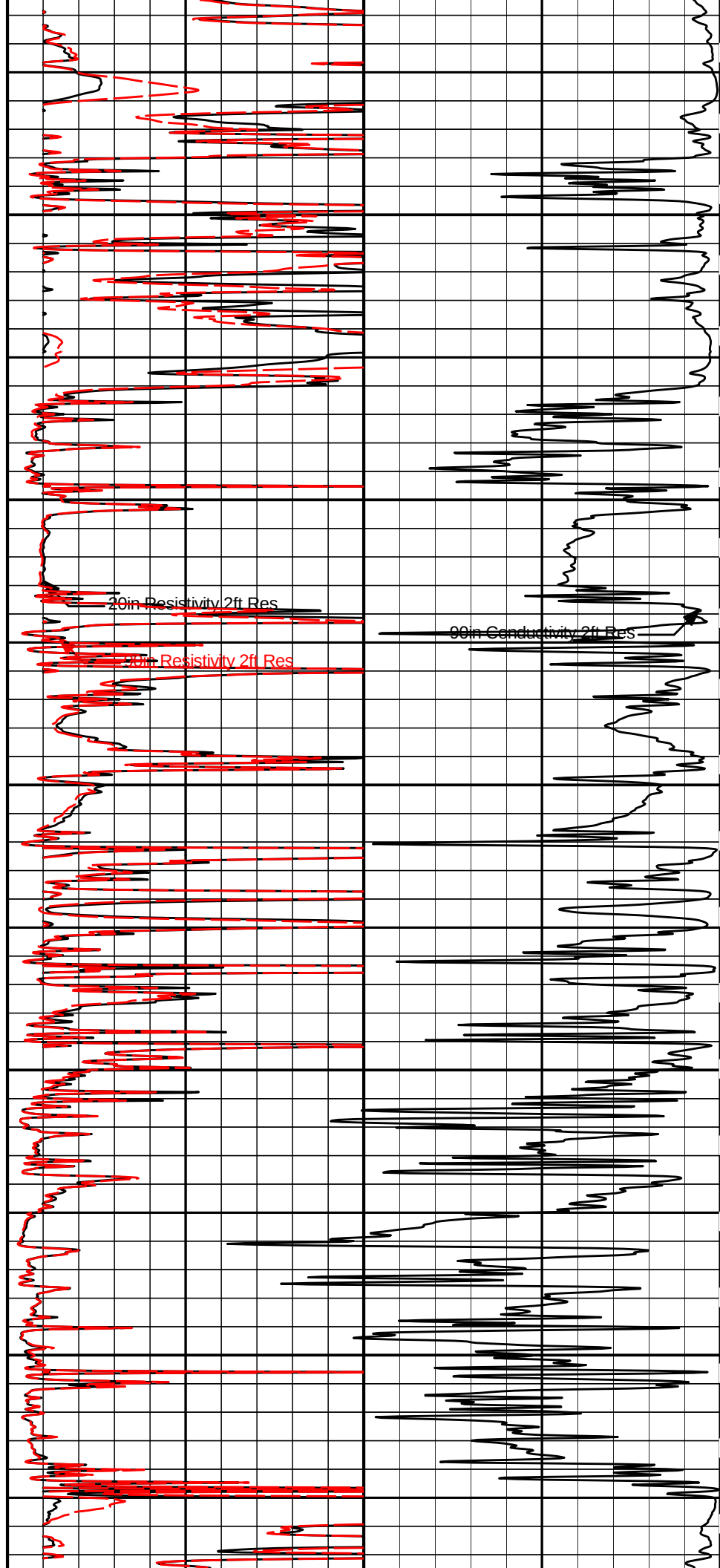
Gamma API

4400

4500

4600

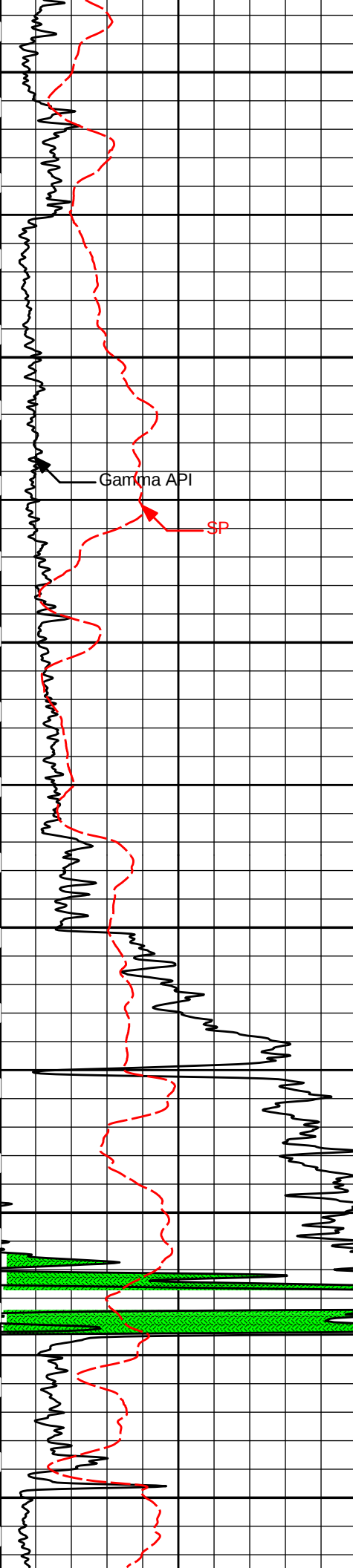
4700



20in Resistivity/2ft Res

20in Resistivity 2ft Res

90in Conductivity 2ft Res



4800

4900

5000

5100

5200

5300

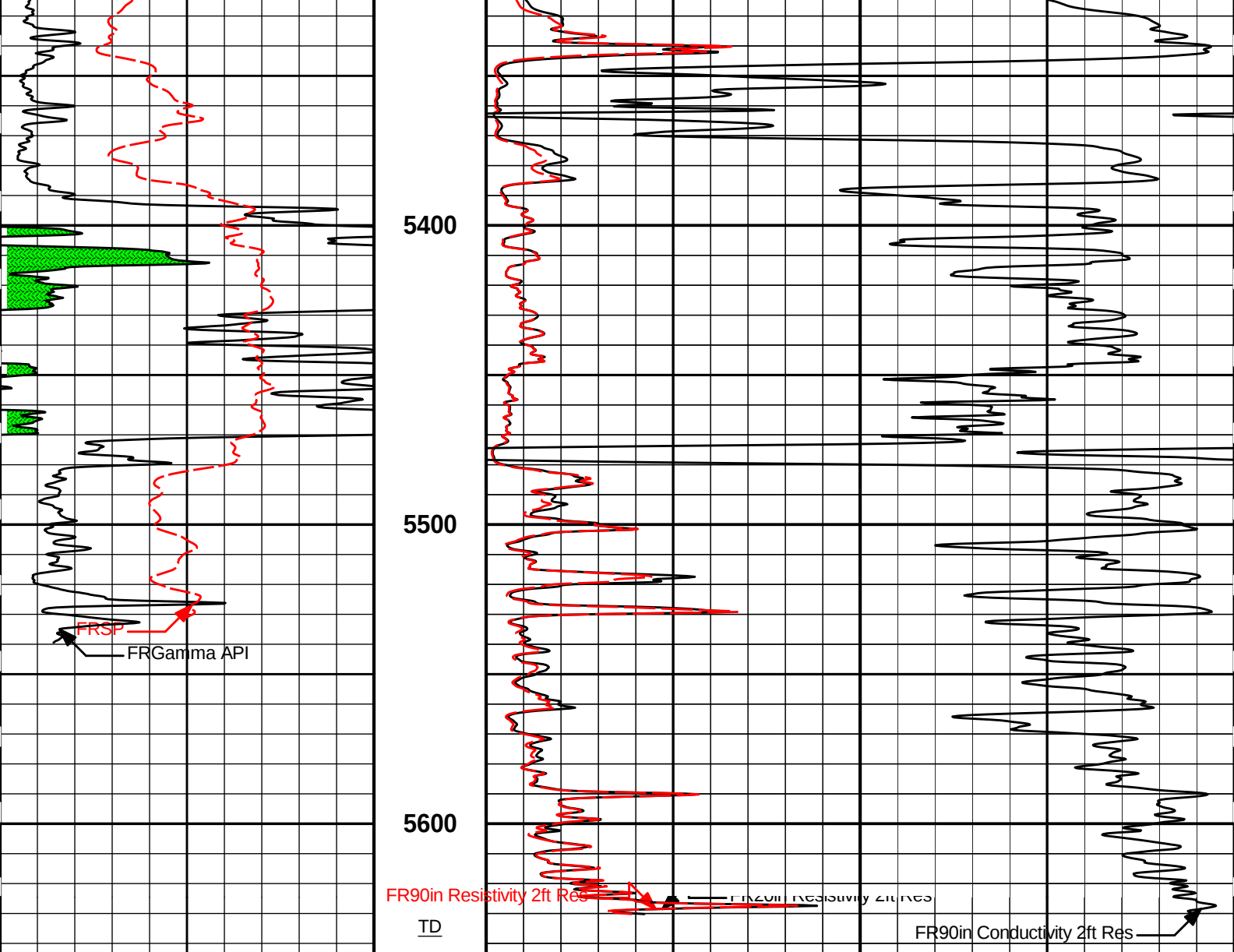
Gamma API

SP

20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



0	Gamma API	150	MD 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

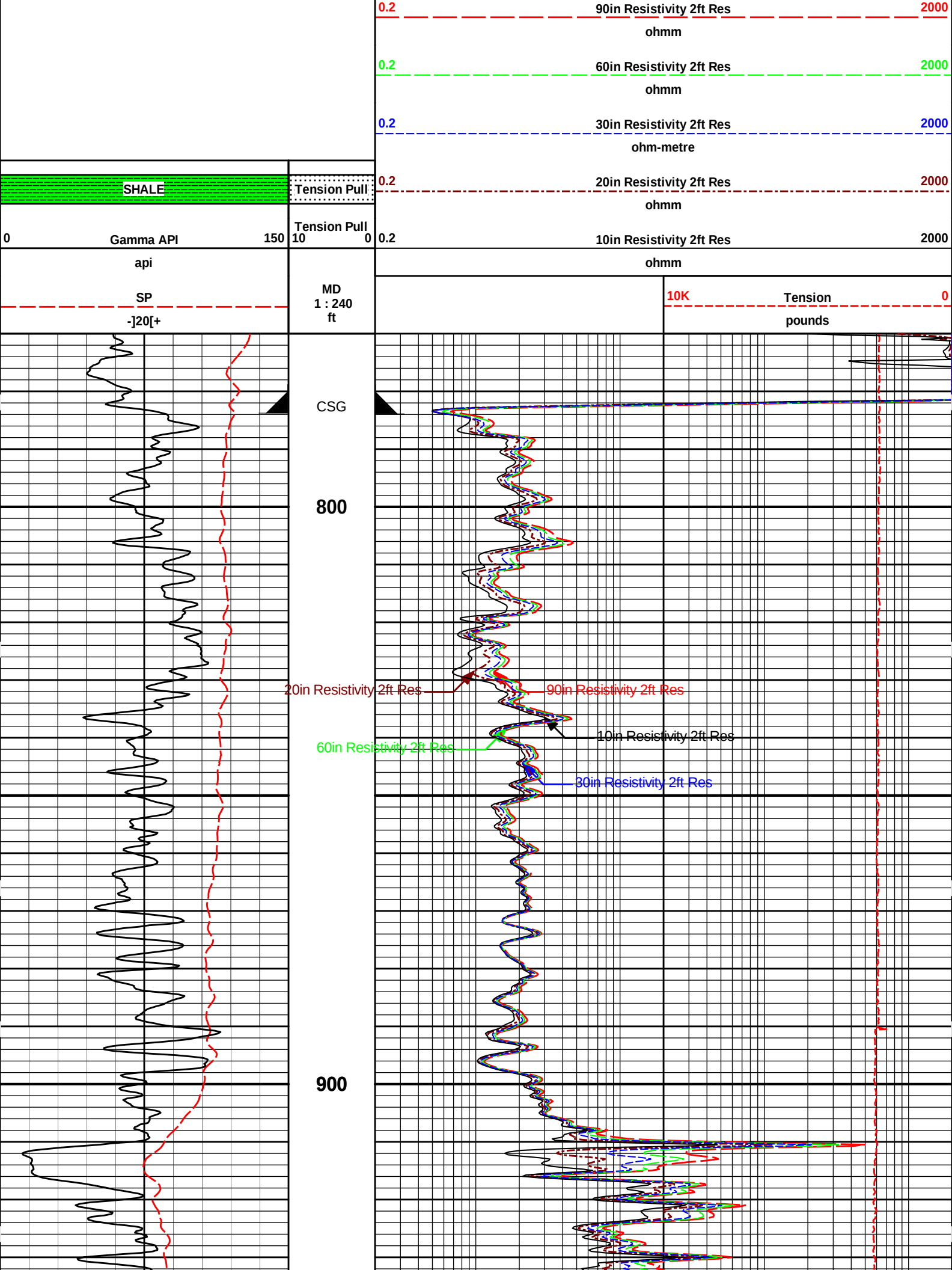
Plot Time: 01-Jun-12 12:15:42
Plot Range: 770 ft to 5643.42 ft
Data: WRIGLEY_1_11_SW\Well Based\CASING\
Plot File: \\-LOCAL-WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIACRT\ACRT_2_lib

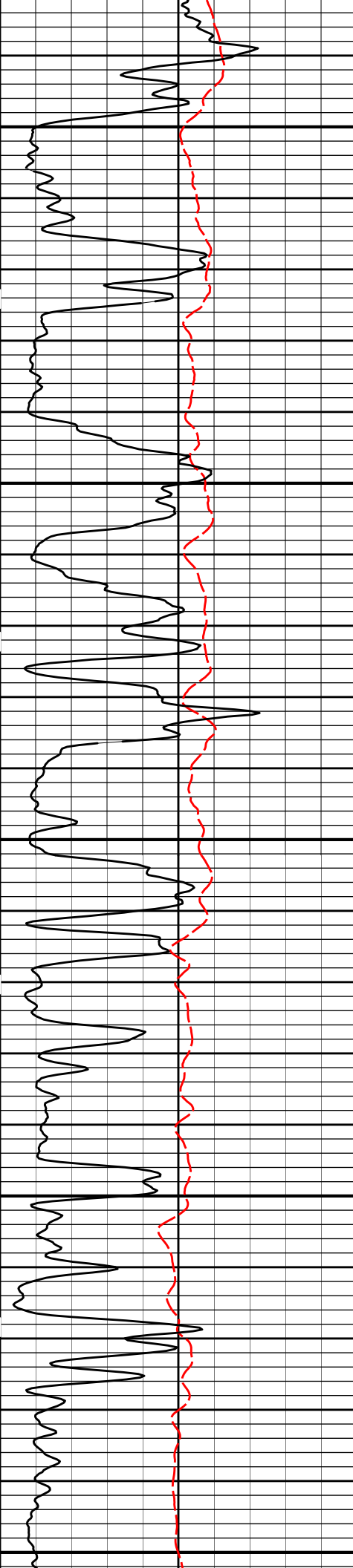
2 INCH MAIN LOG

HALLIBURTON

Plot Time: 01-Jun-12 12:15:42
Plot Range: 770 ft to 5643.42 ft
Data: WRIGLEY_1_11_SW\Well Based\CASING\
Plot File: \\-LOCAL-WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIACRT\ACRT_5_main_lib

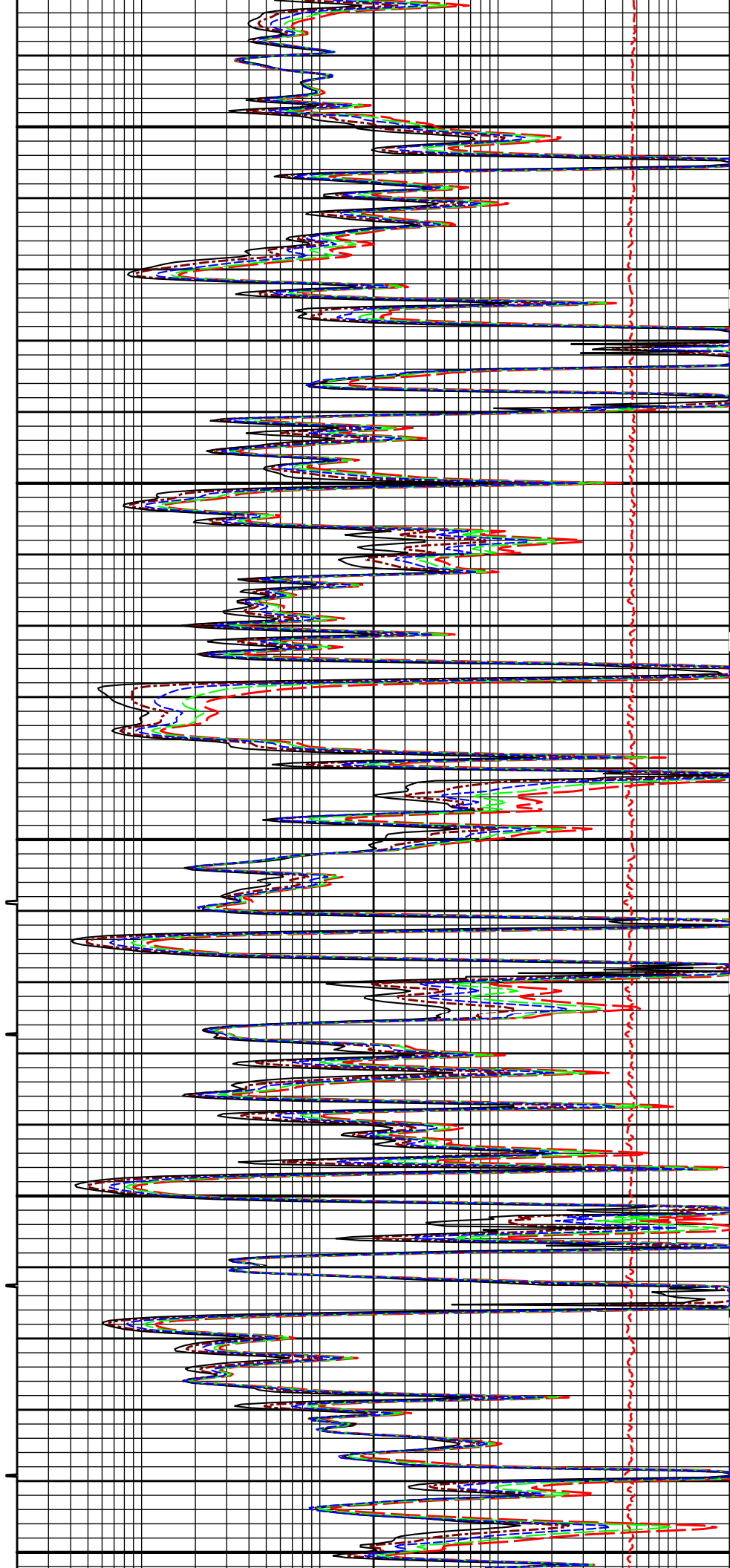
5 INCH MAIN LOG

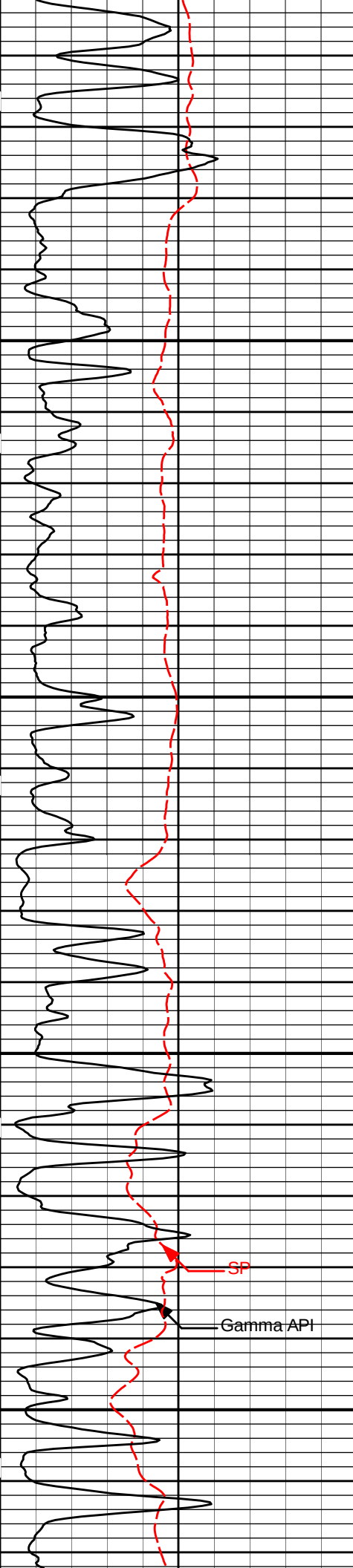




1000

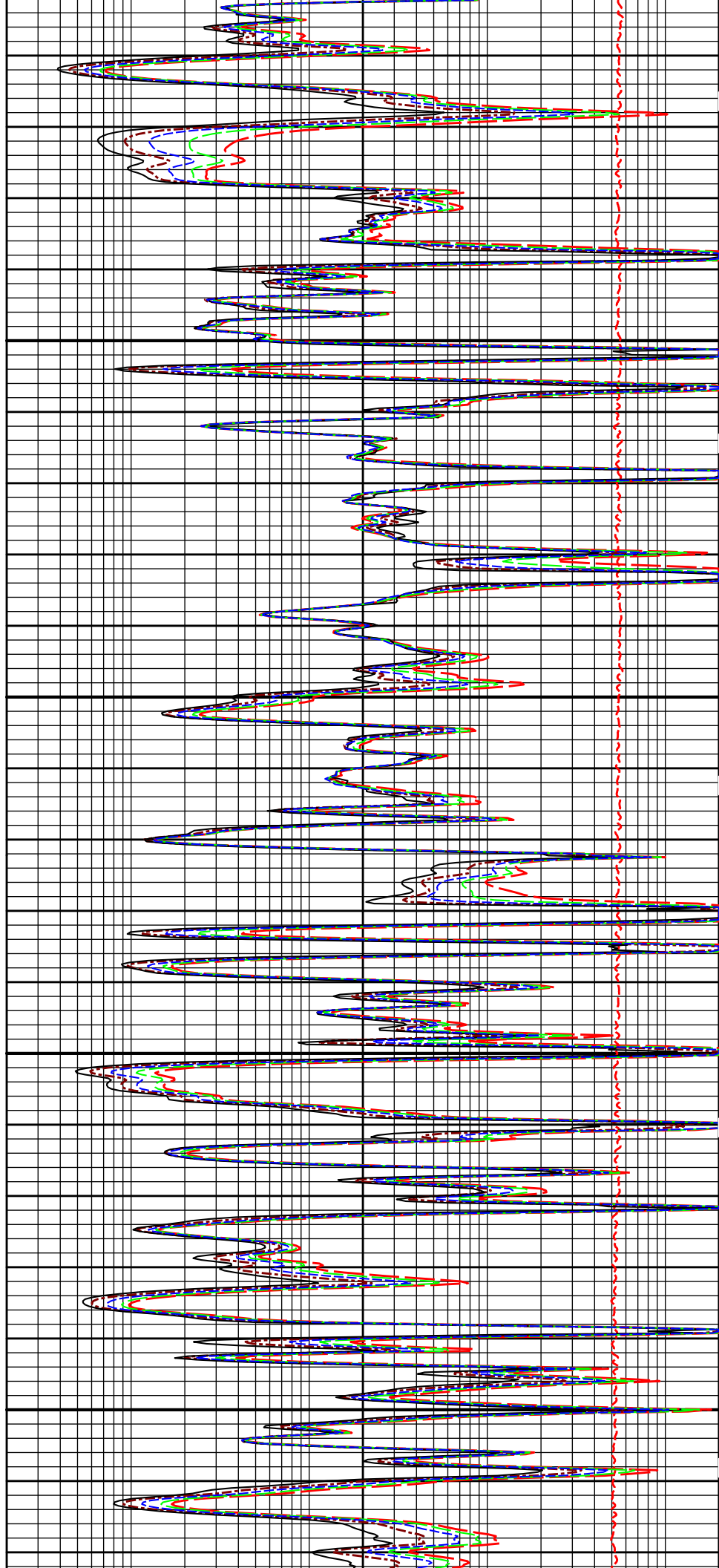
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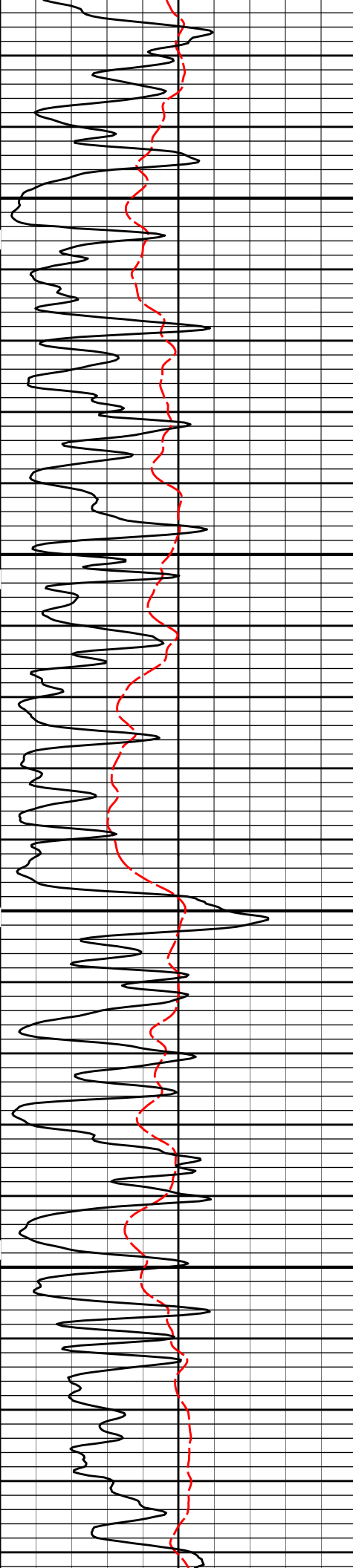




1200

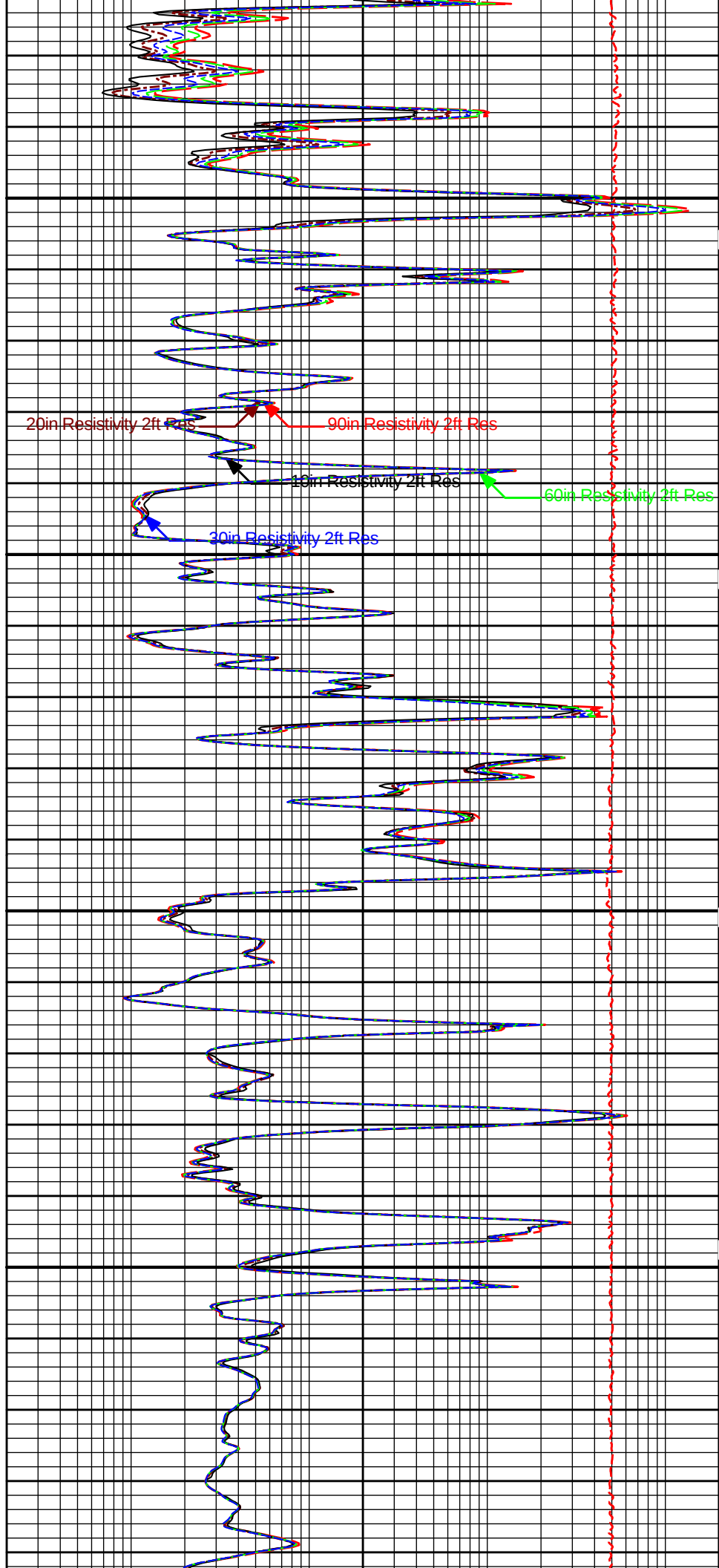
1300

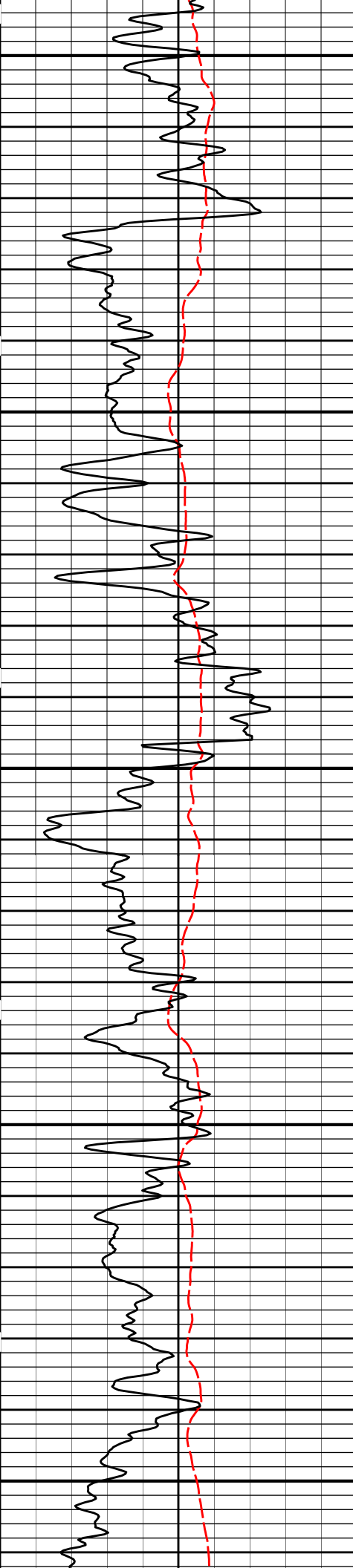




1400

1500

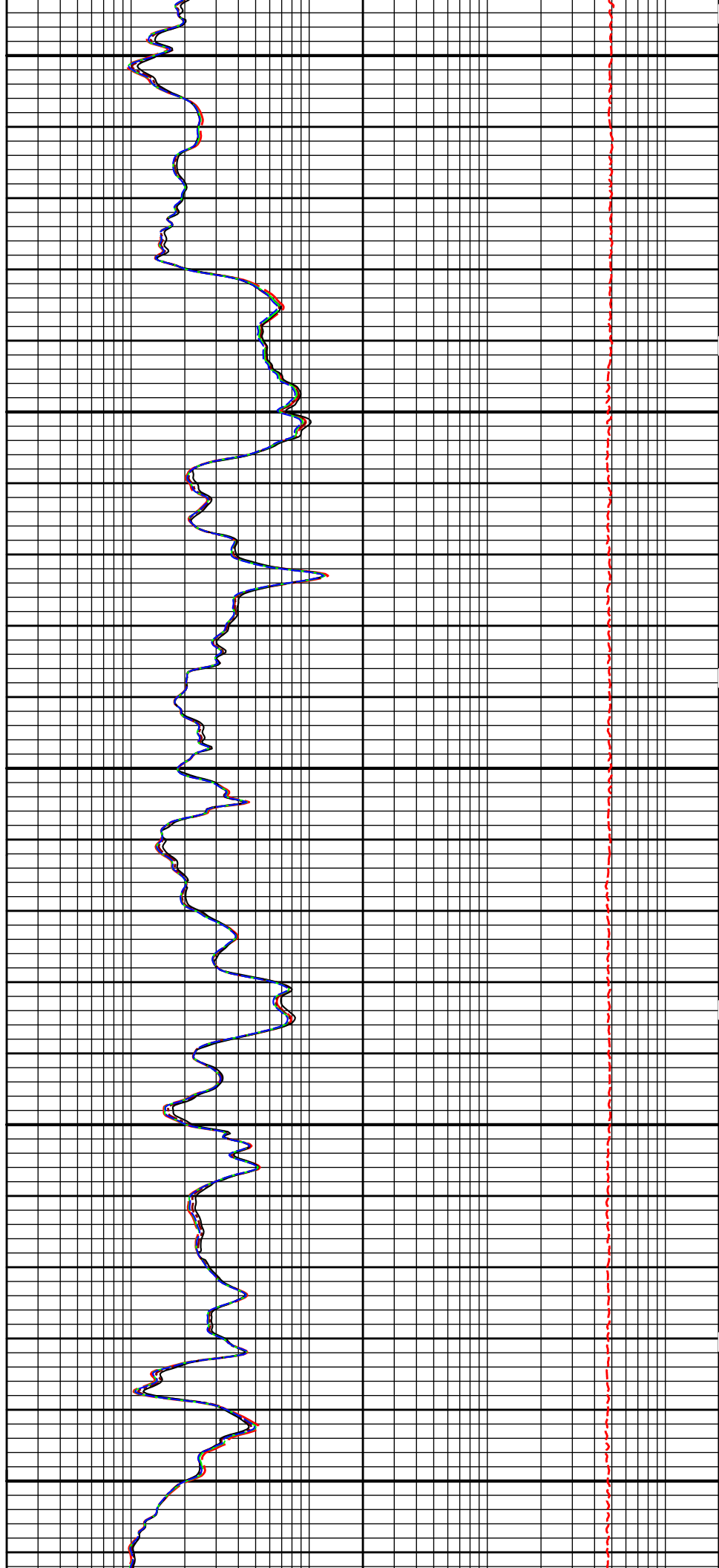


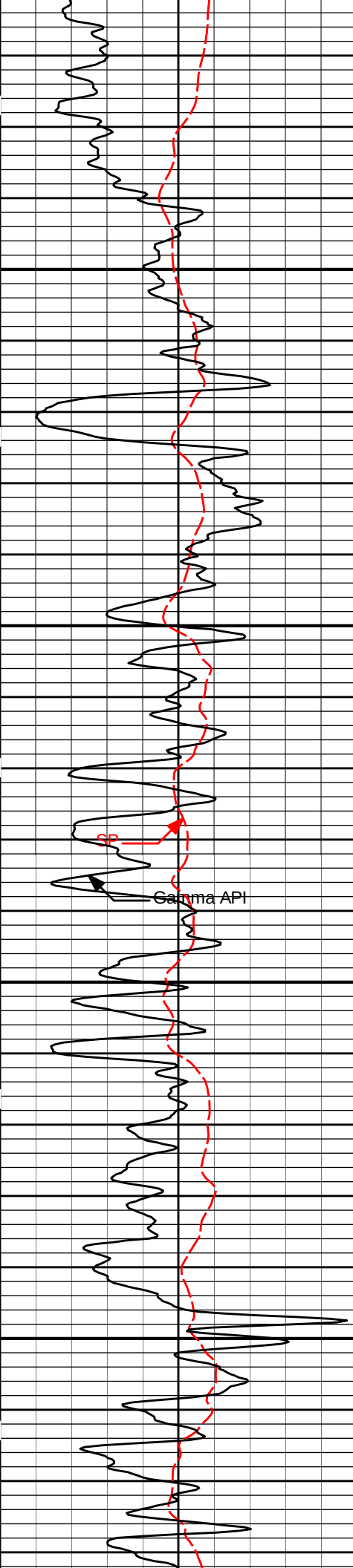


1600

1700

1800

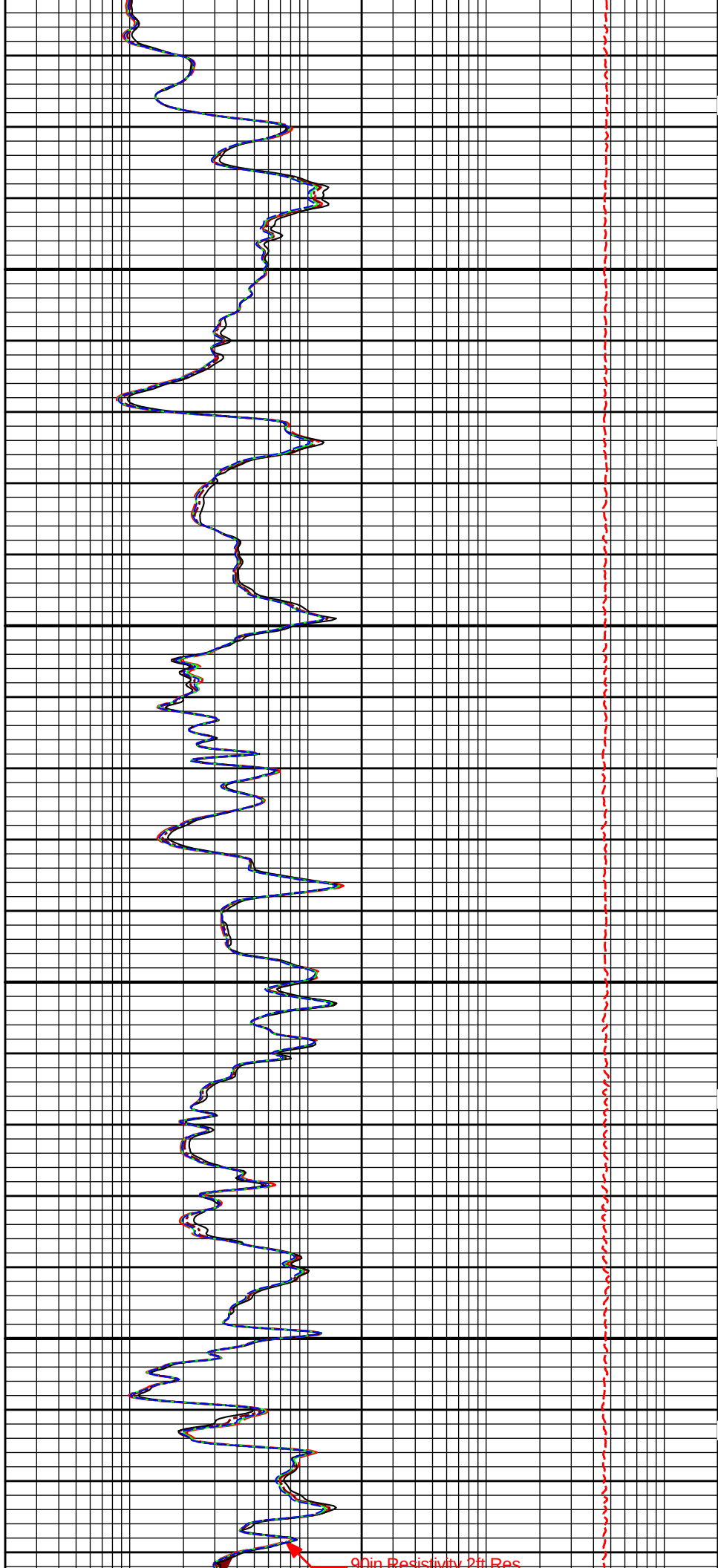




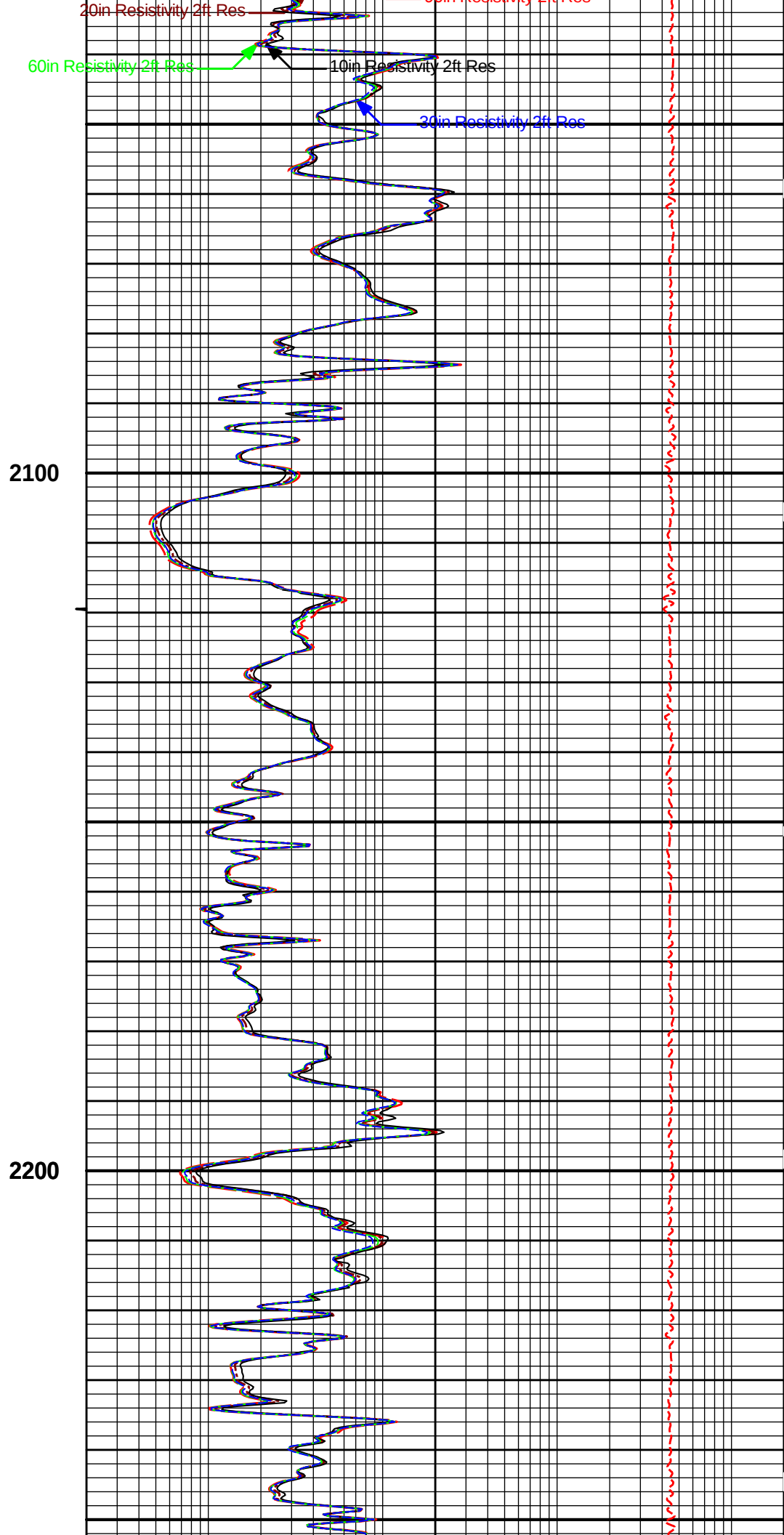
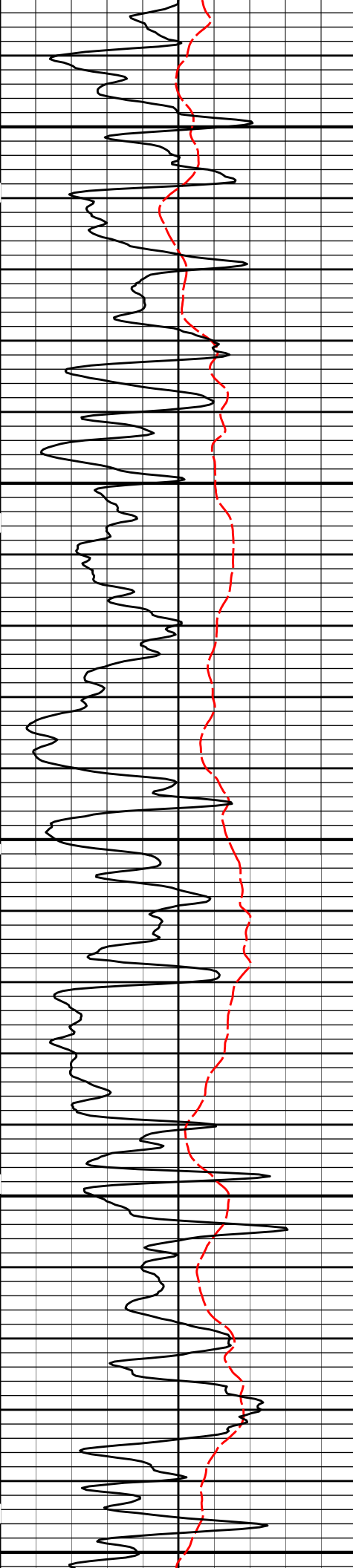
1900

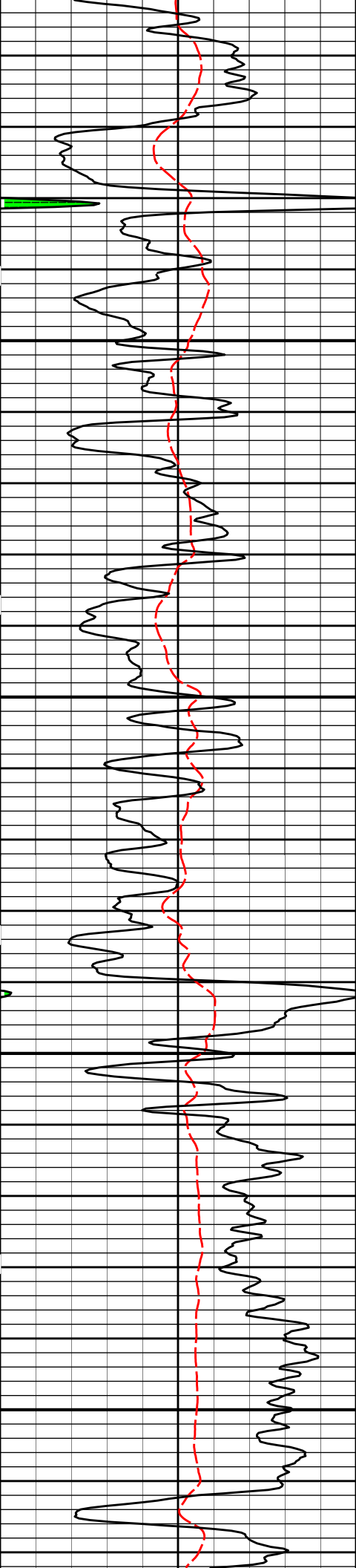
2000

Gamma API



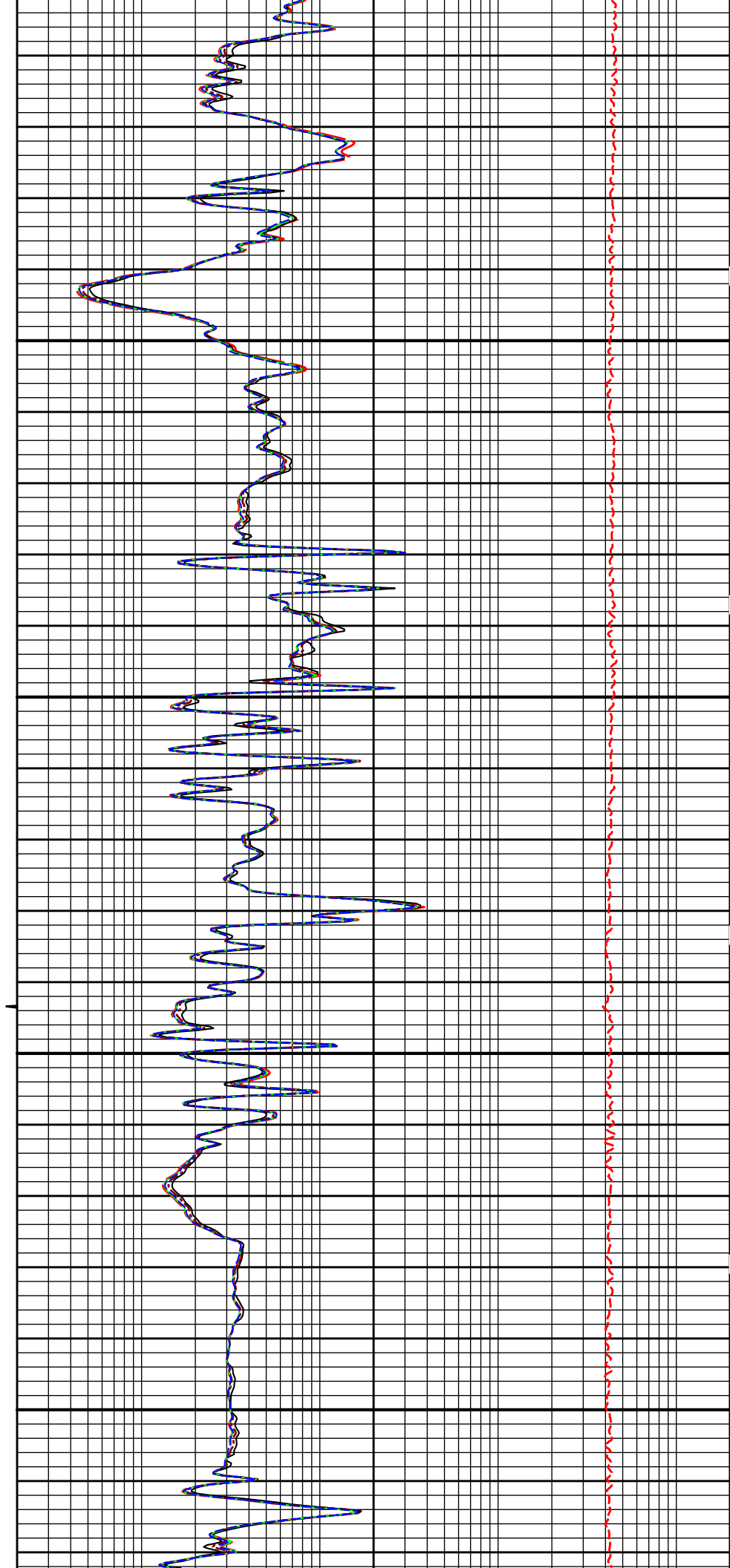
Ohm Resistivity 2ft Pos

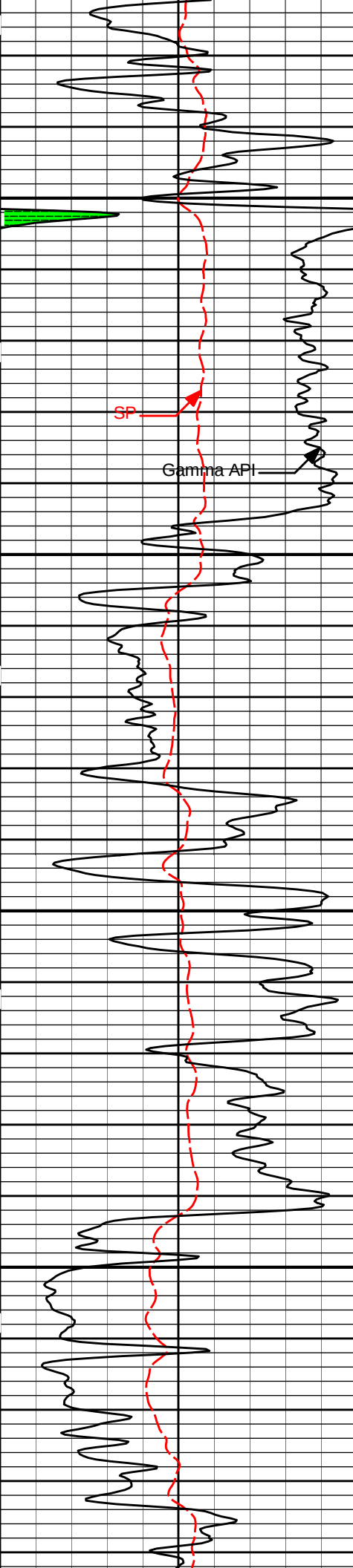




2300

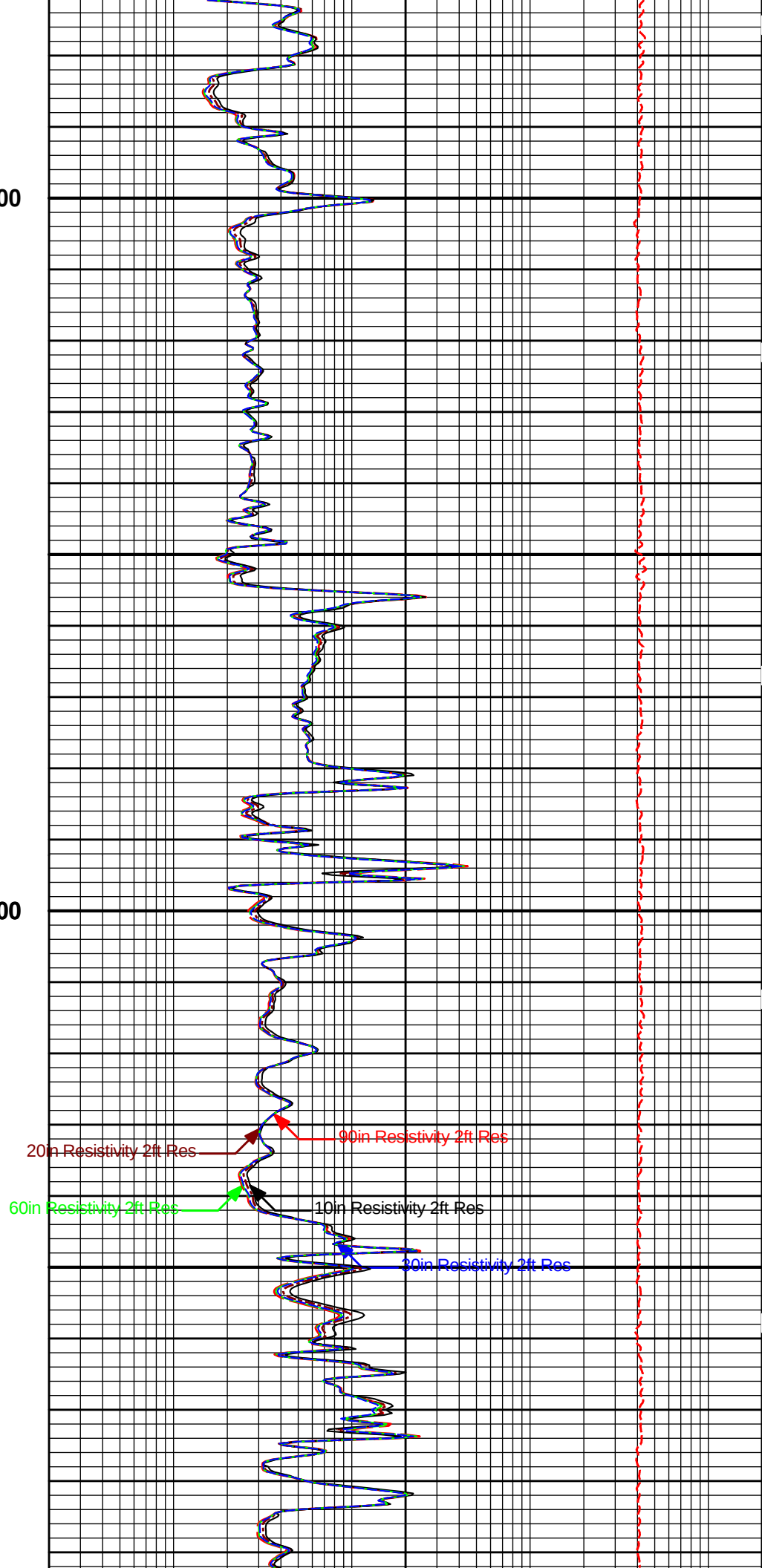
2400





2500

2600

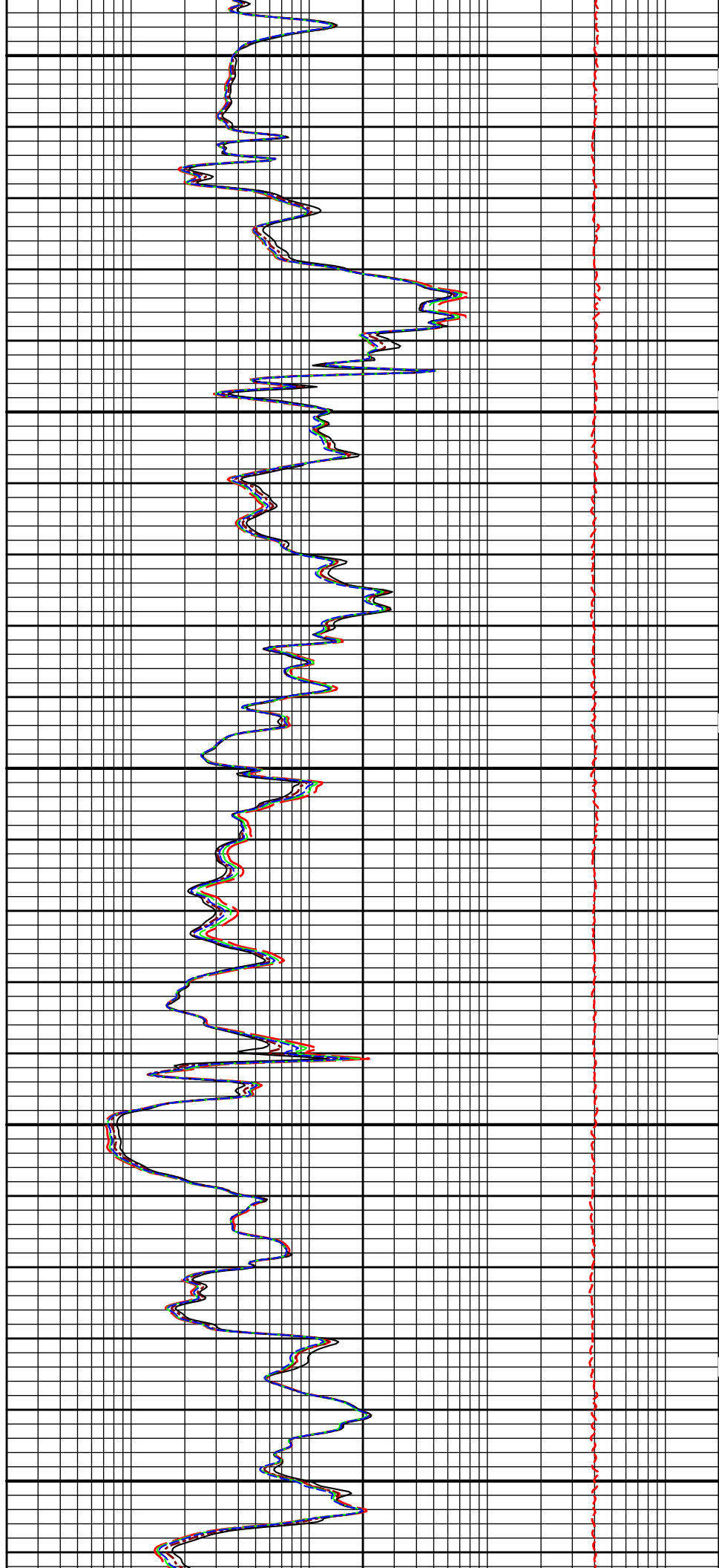




2700

2800

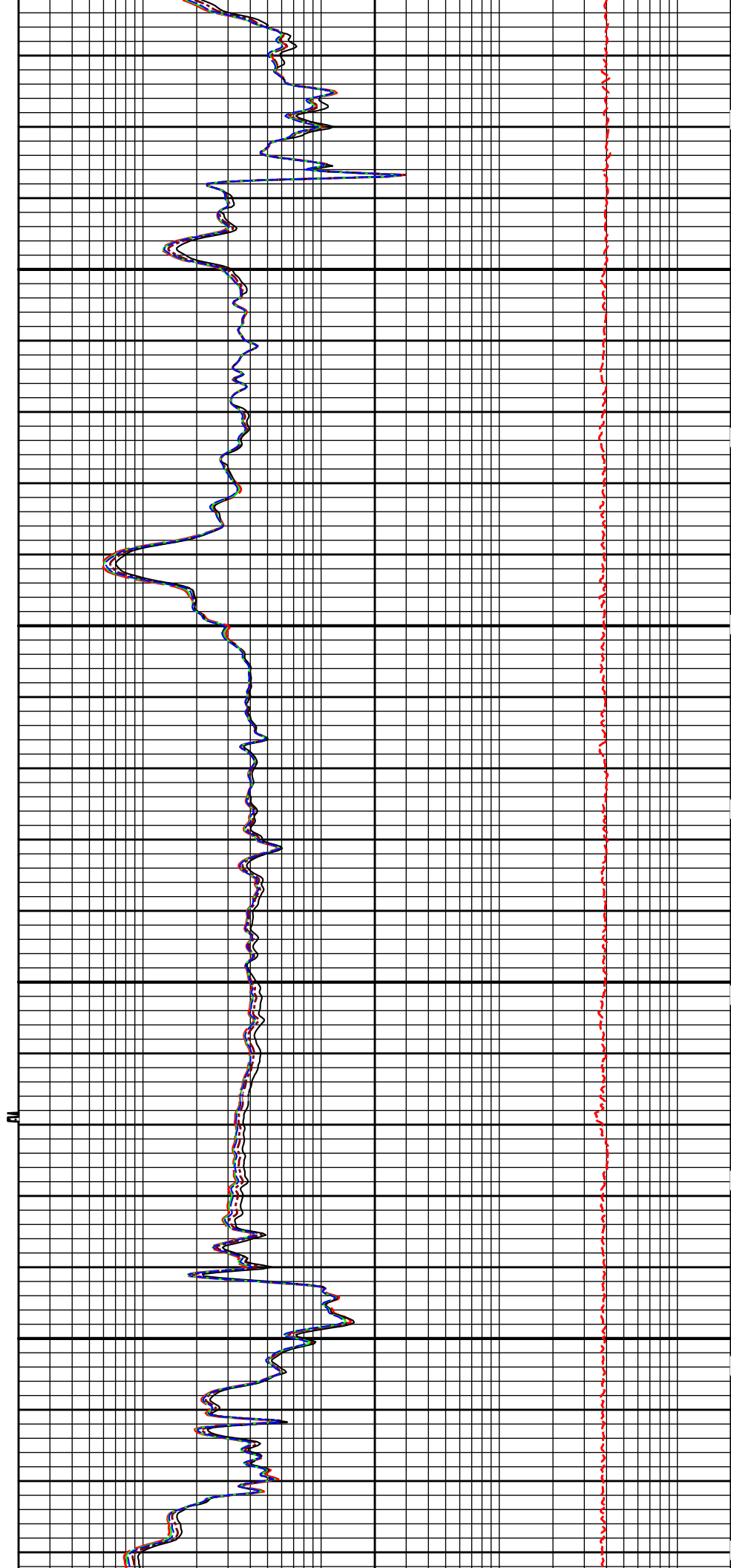
2900





3000

3100





3200

60in Resistivity 2ft Res

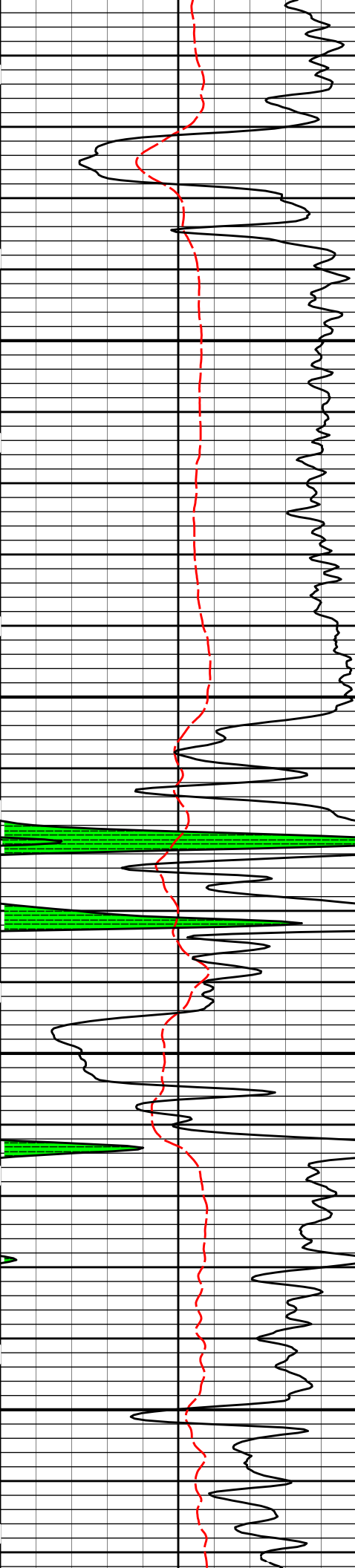
30in Resistivity 2ft Res

90in Resistivity 2ft Res

20in Resistivity 2ft Res

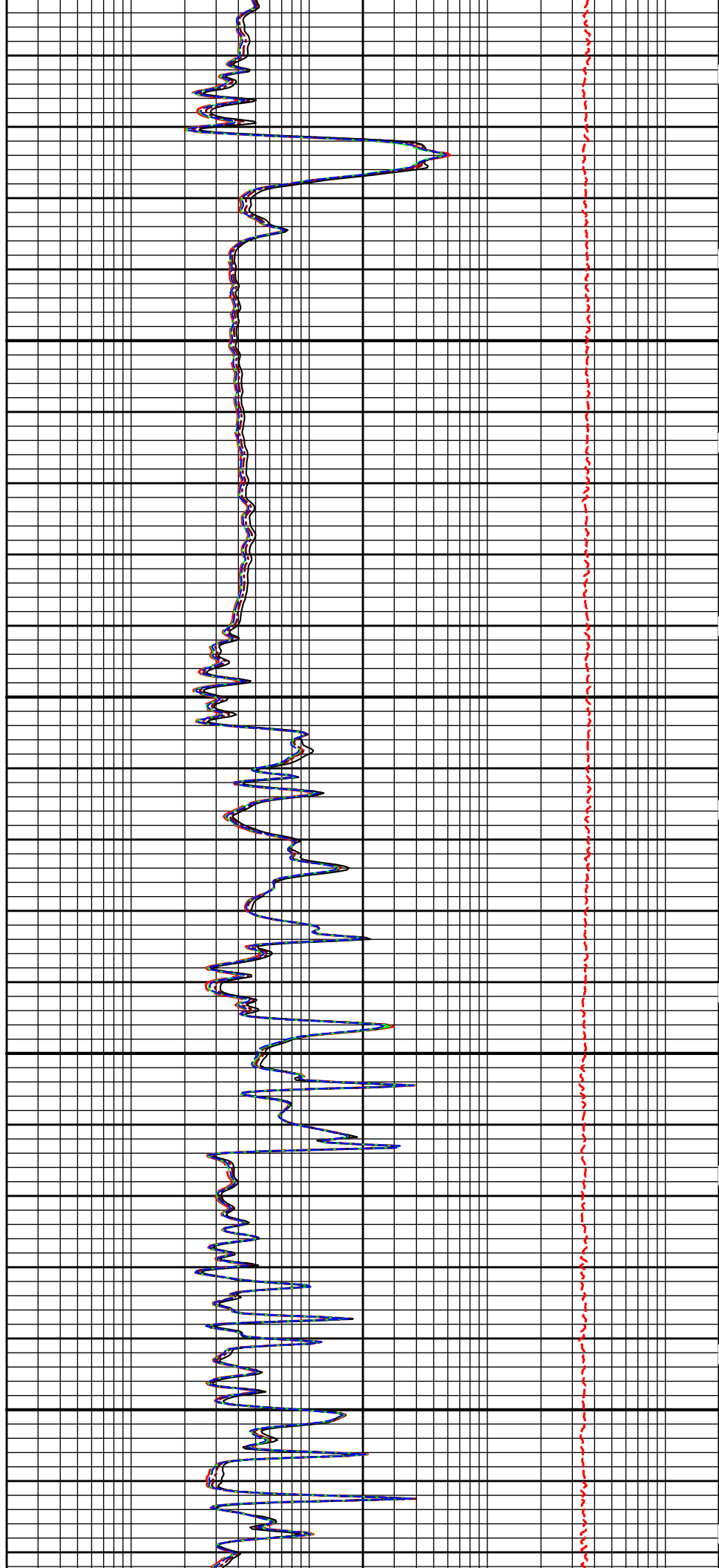
10in Resistivity 2ft Res

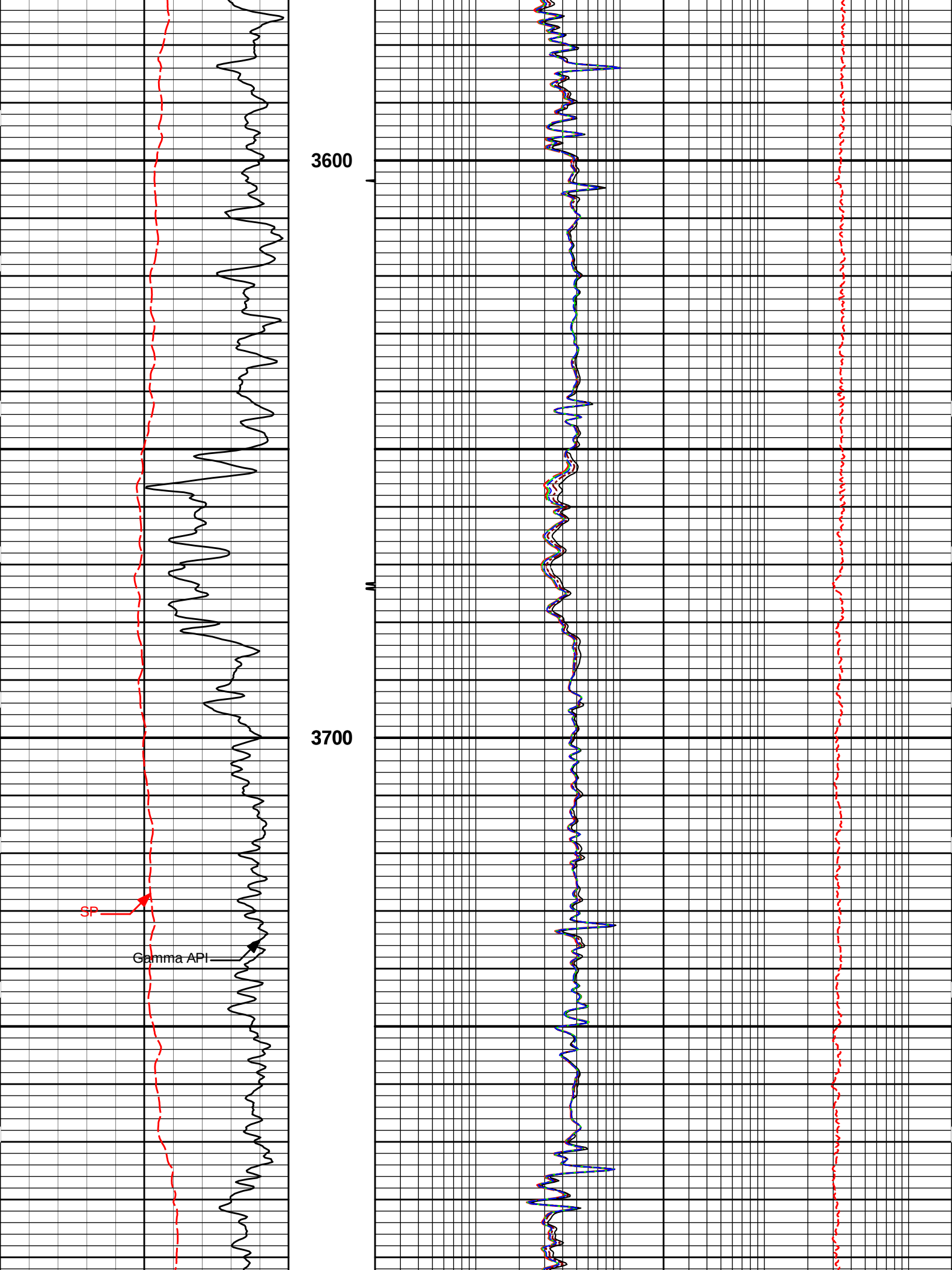
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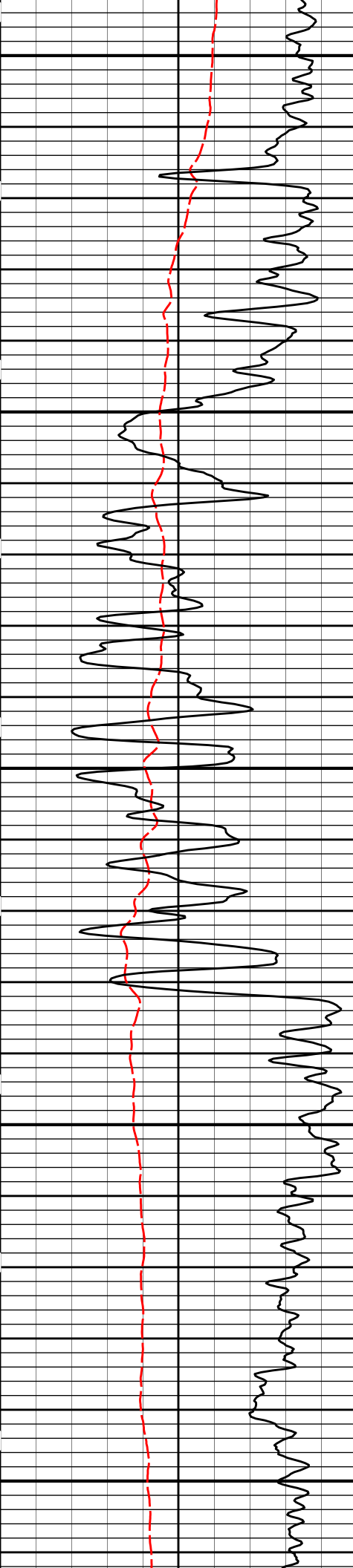


3400

3500



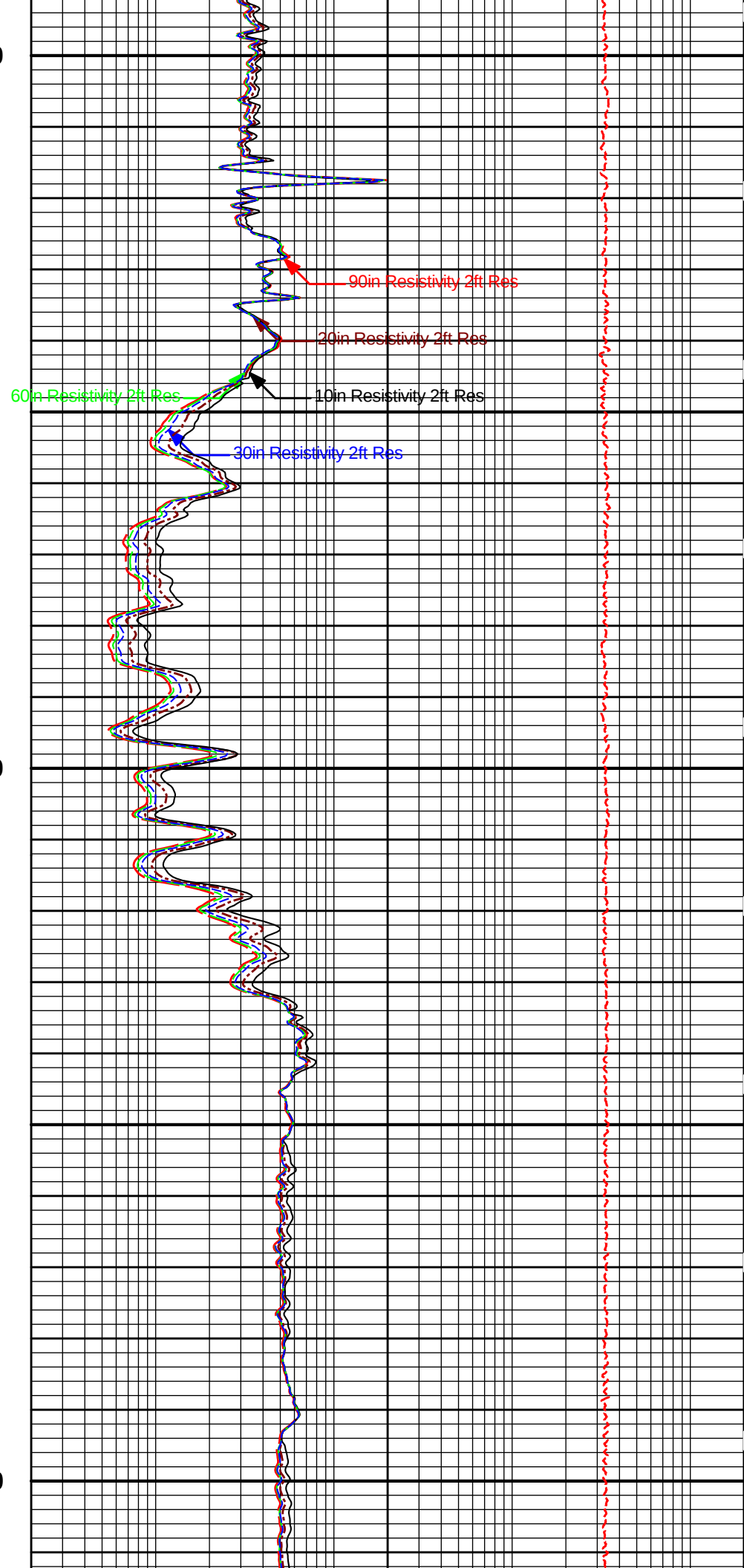


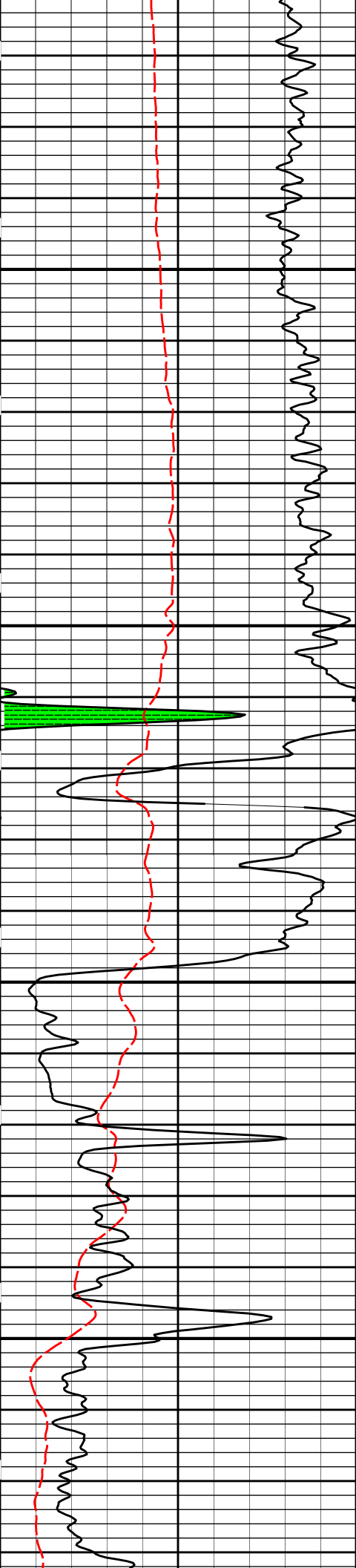


3800

3900

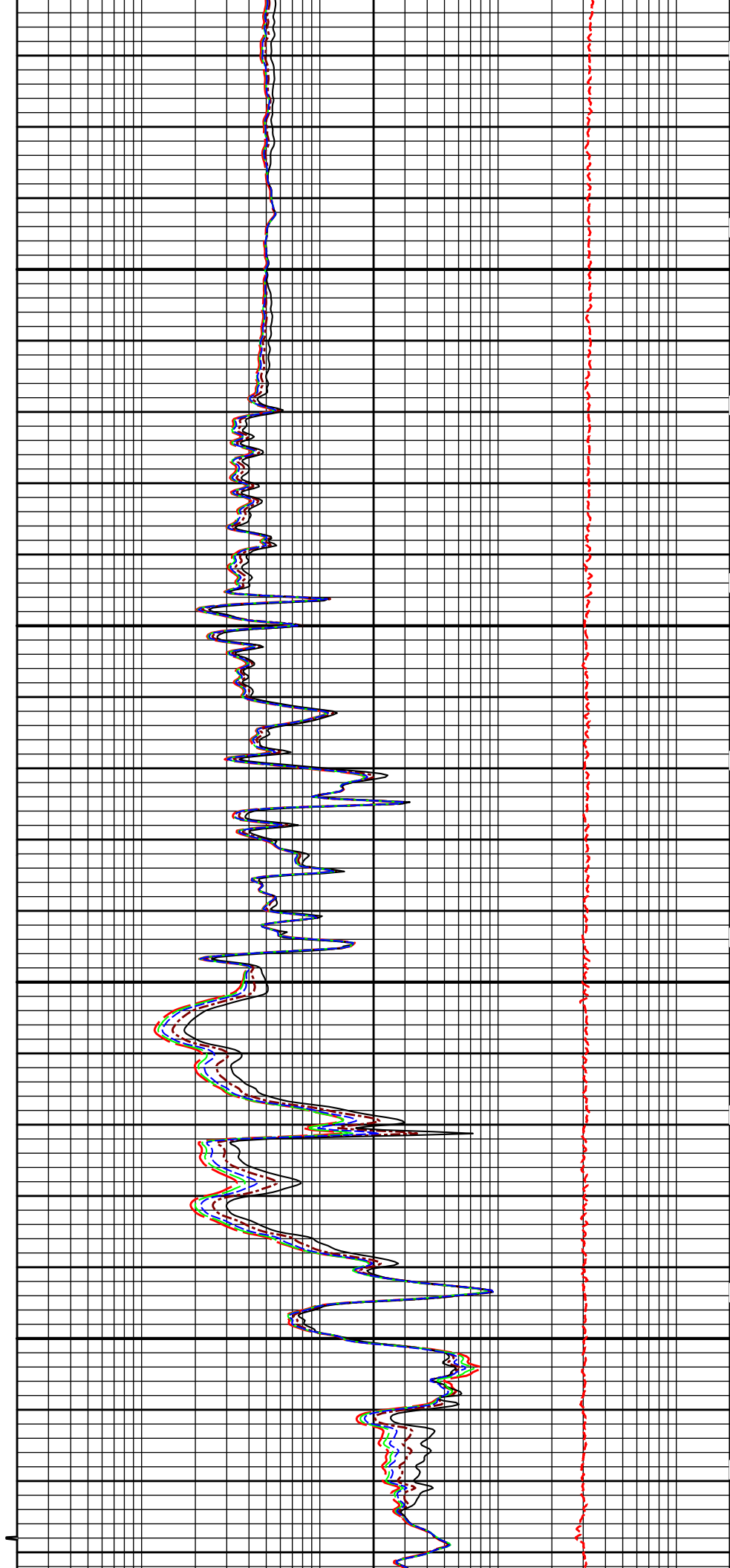
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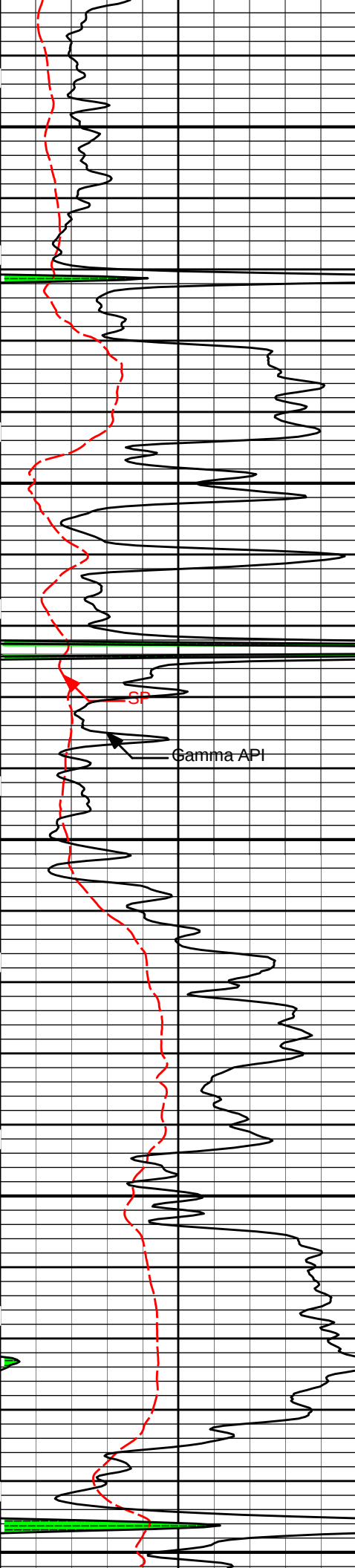




4100

4200





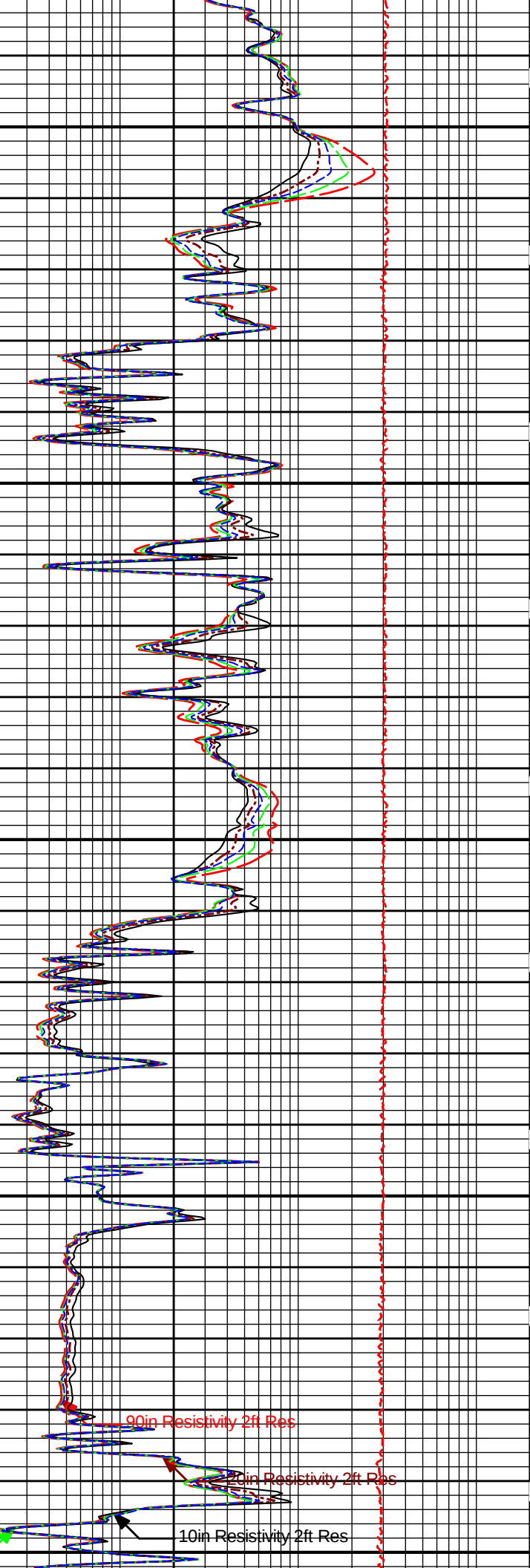
4300

4400

Gamma API

60in Resistivity 2ft Res

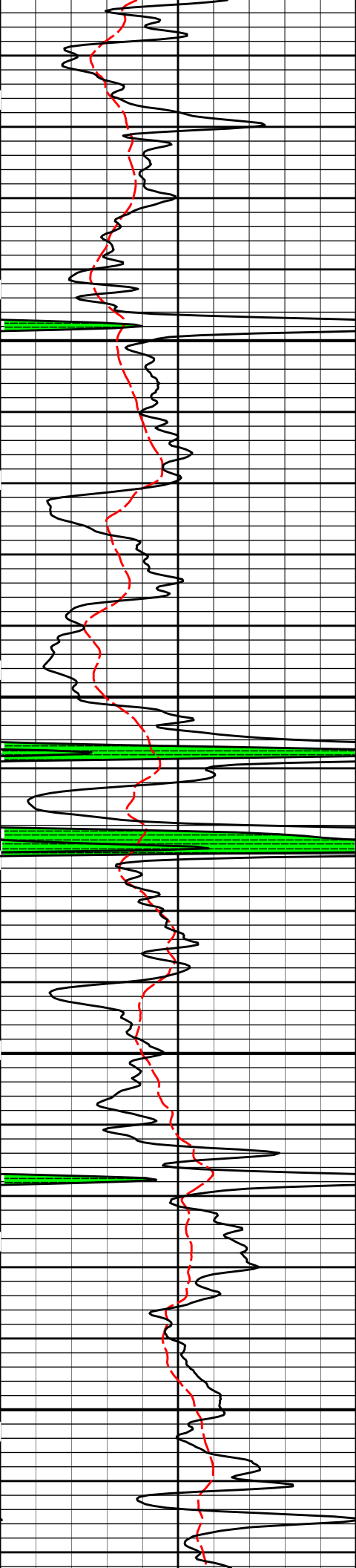
Resistivity 2ft Res



90in Resistivity 2ft Res

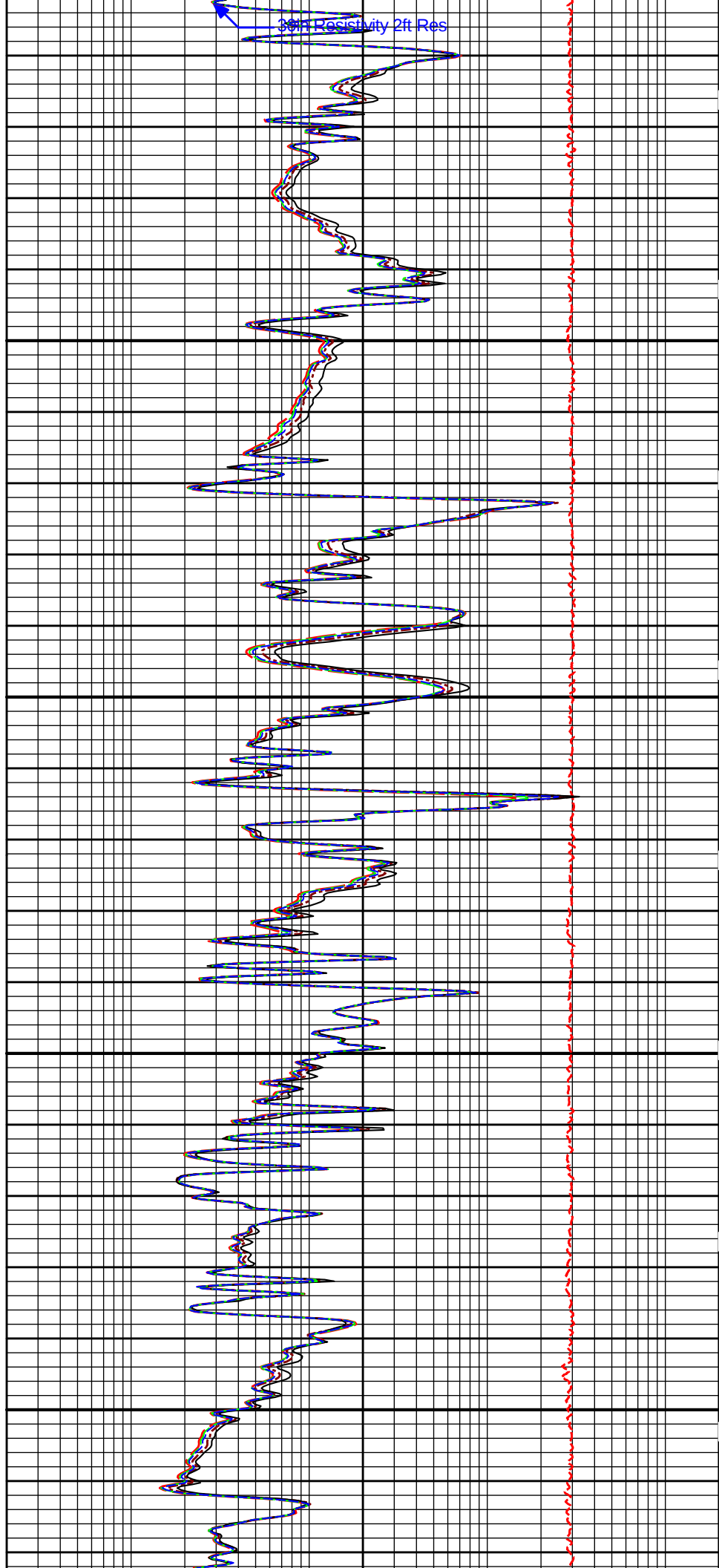
20in Resistivity 2ft Res

10in Resistivity 2ft Res

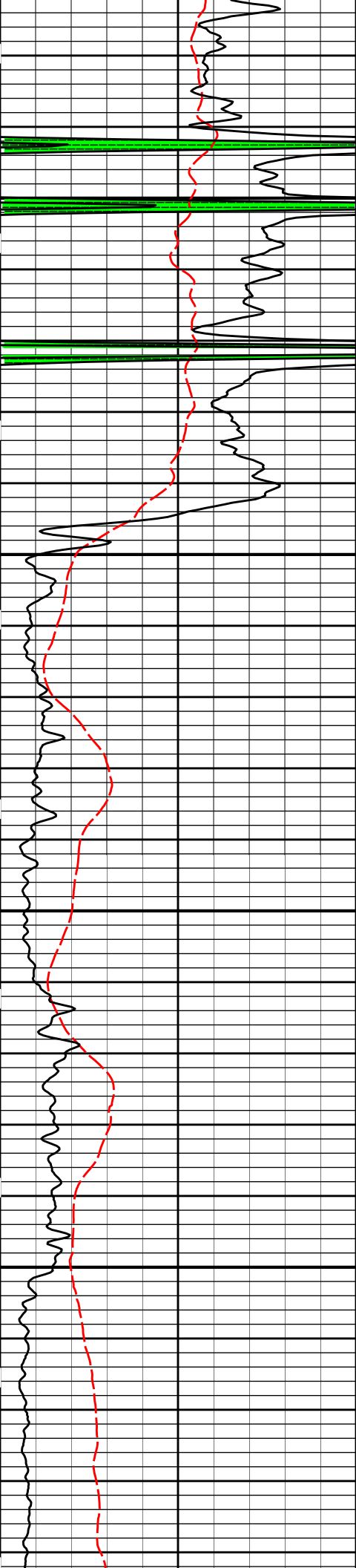


4500

4600

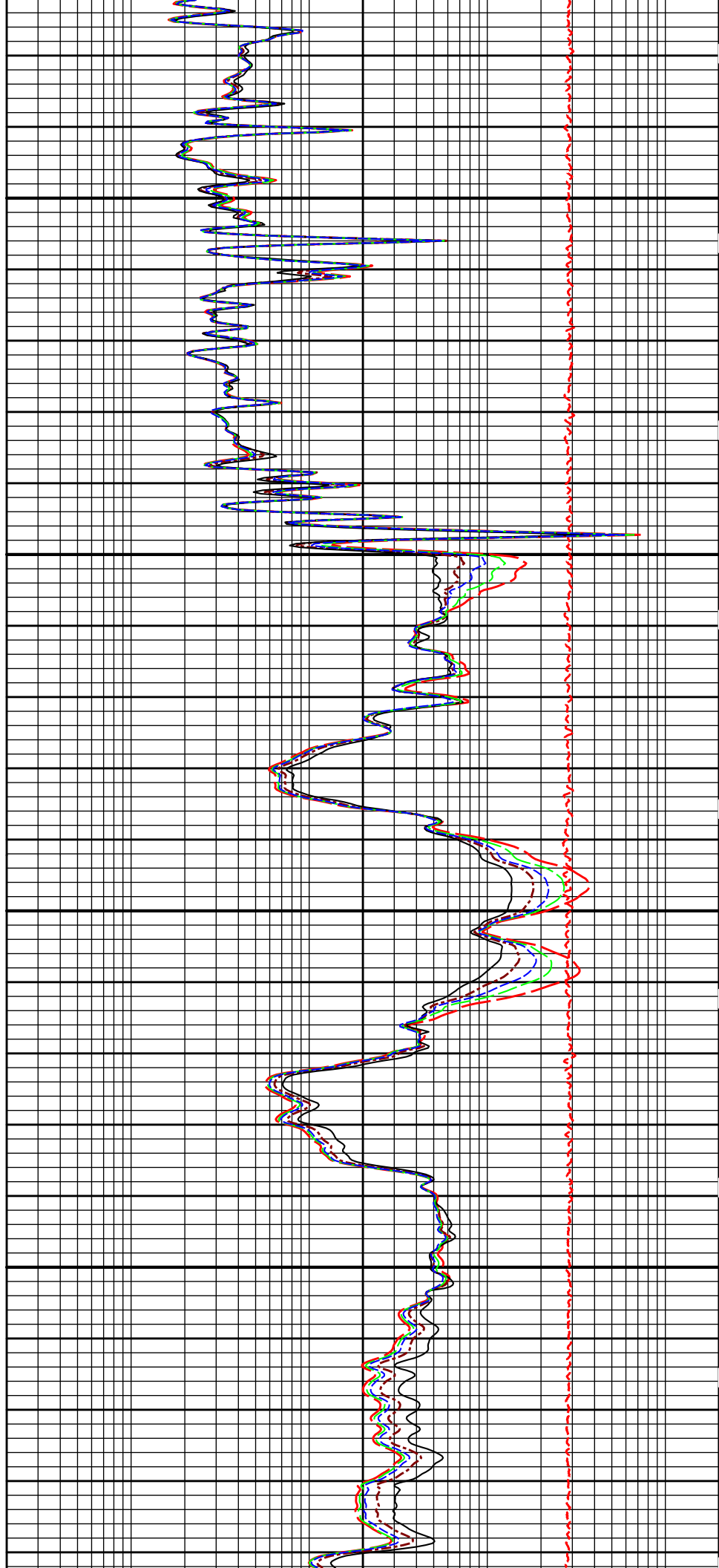


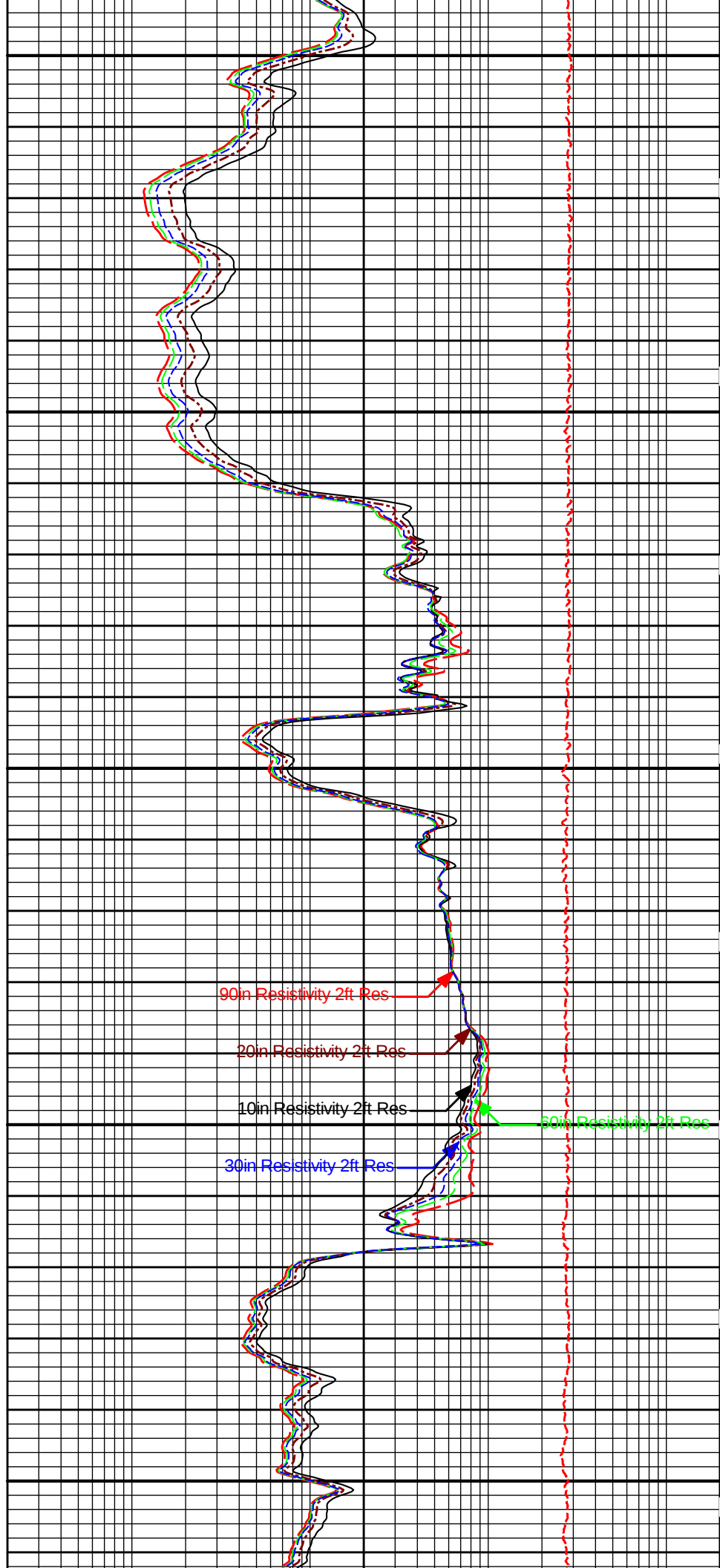
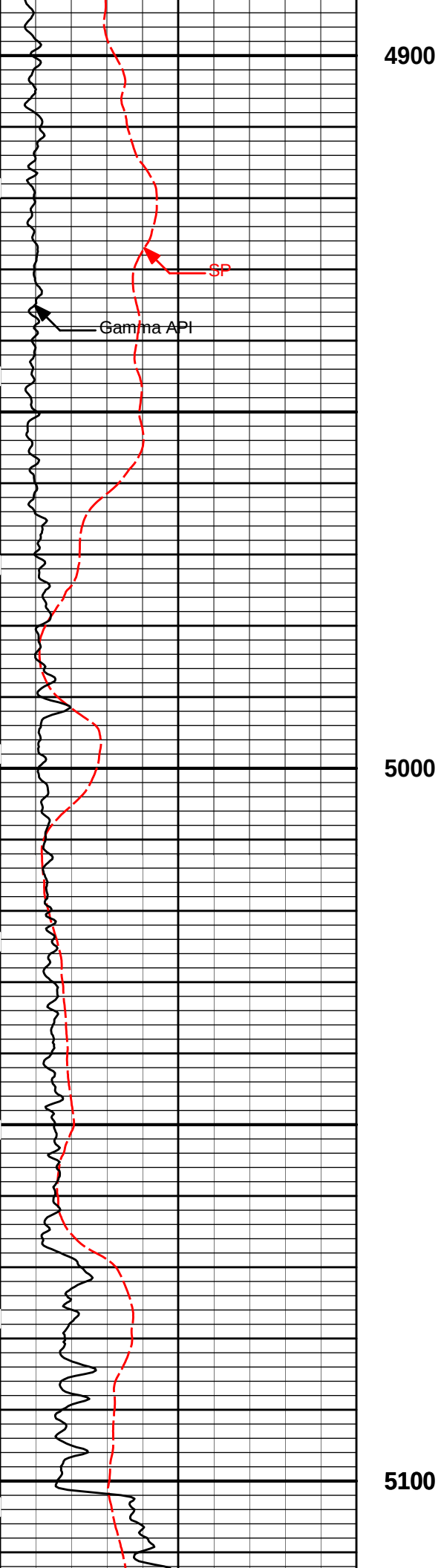
30ft Resistivity 2ft Res

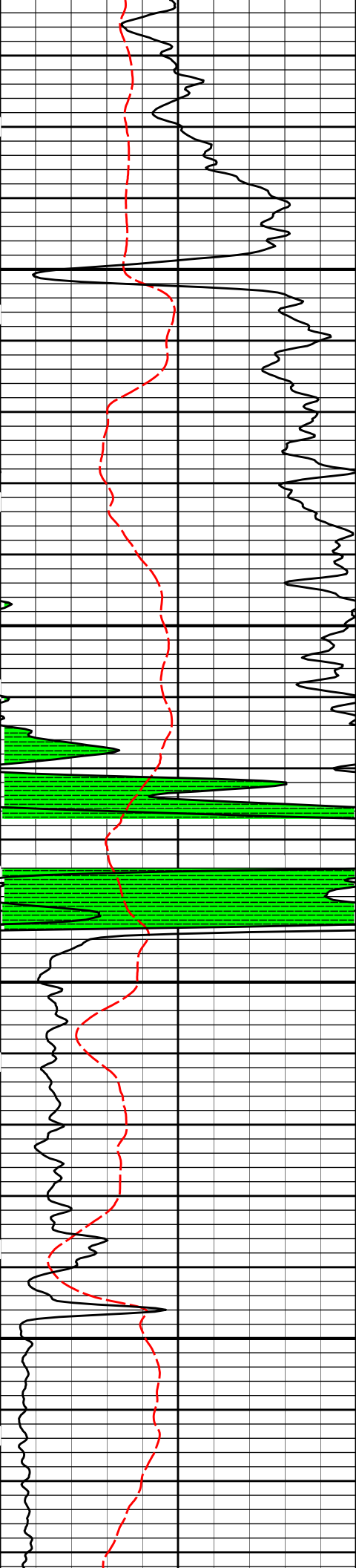


4700

4800

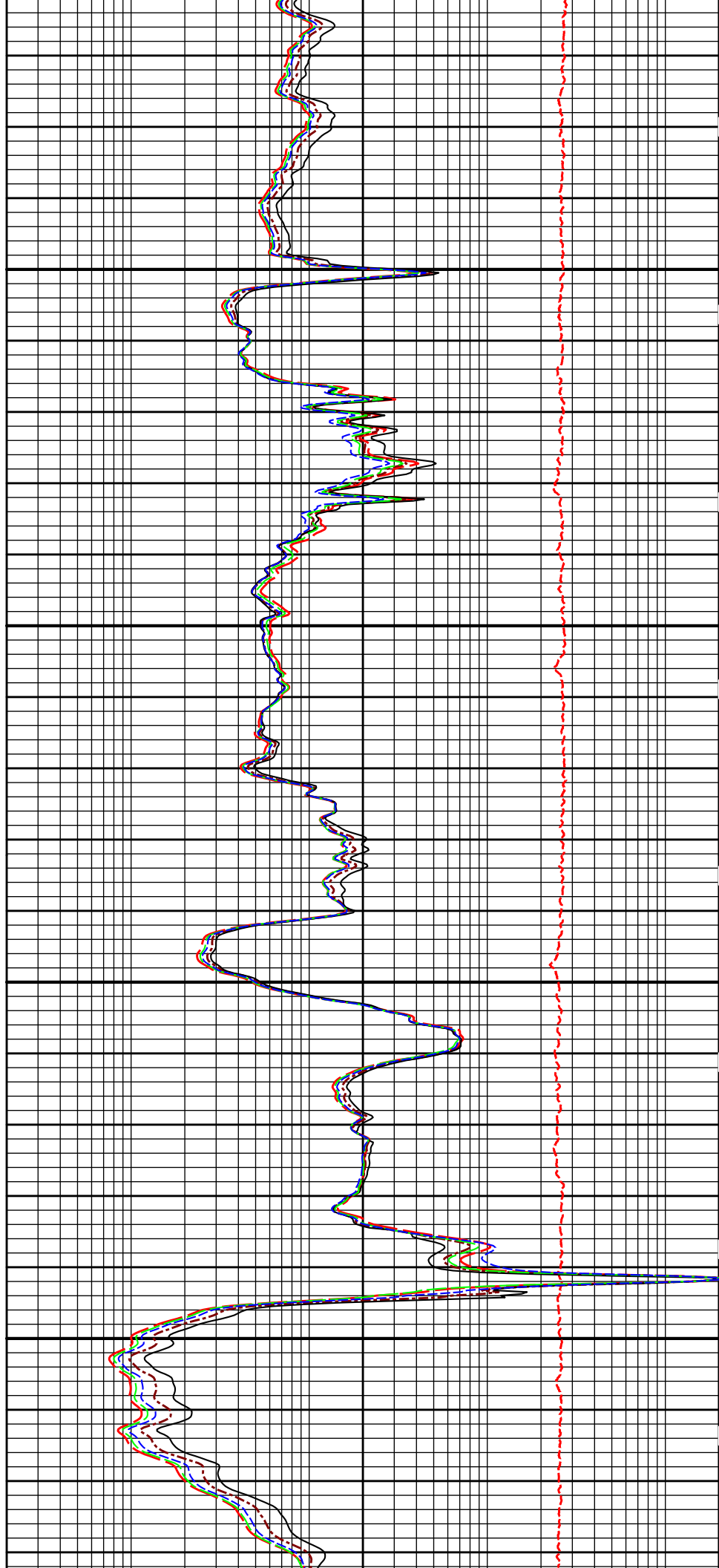


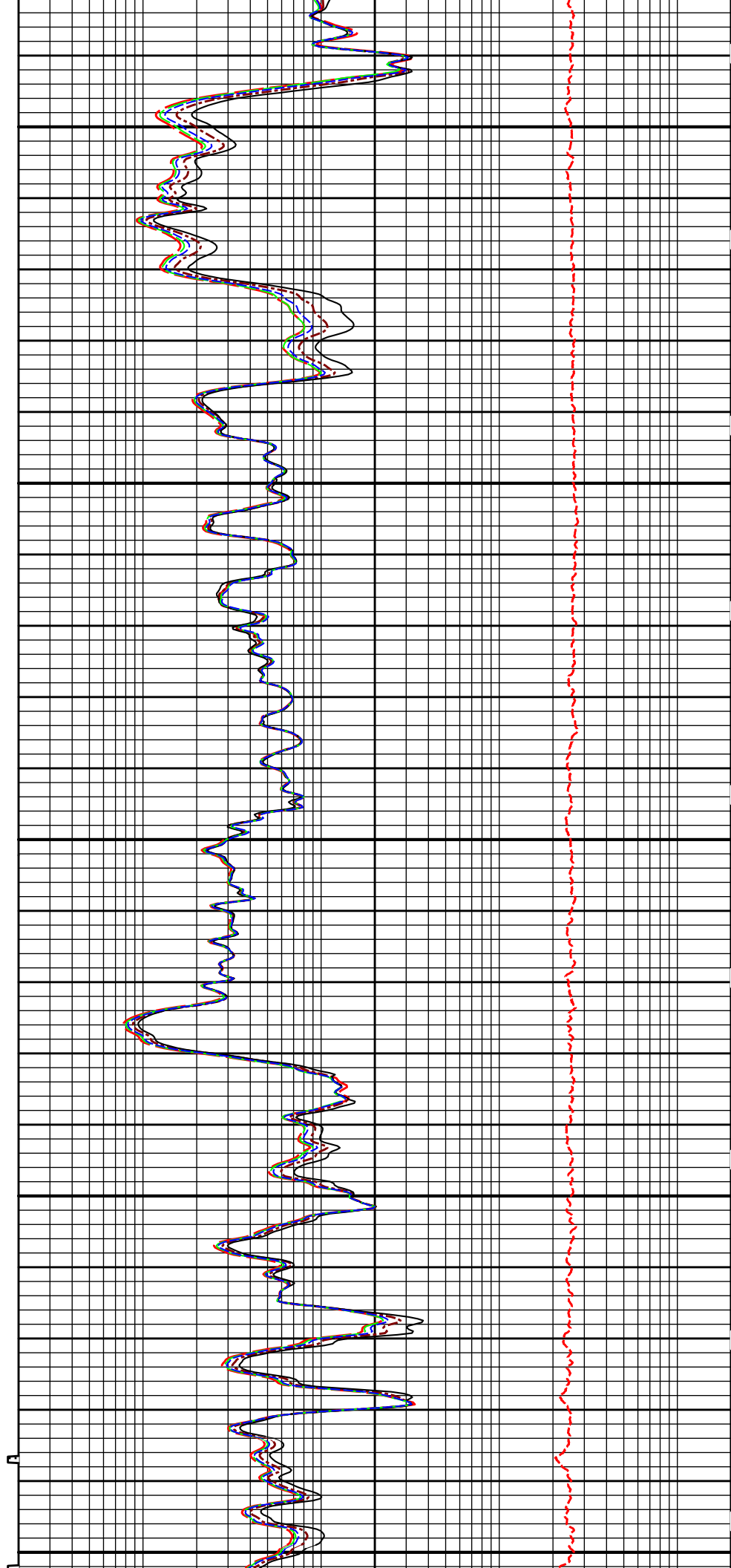
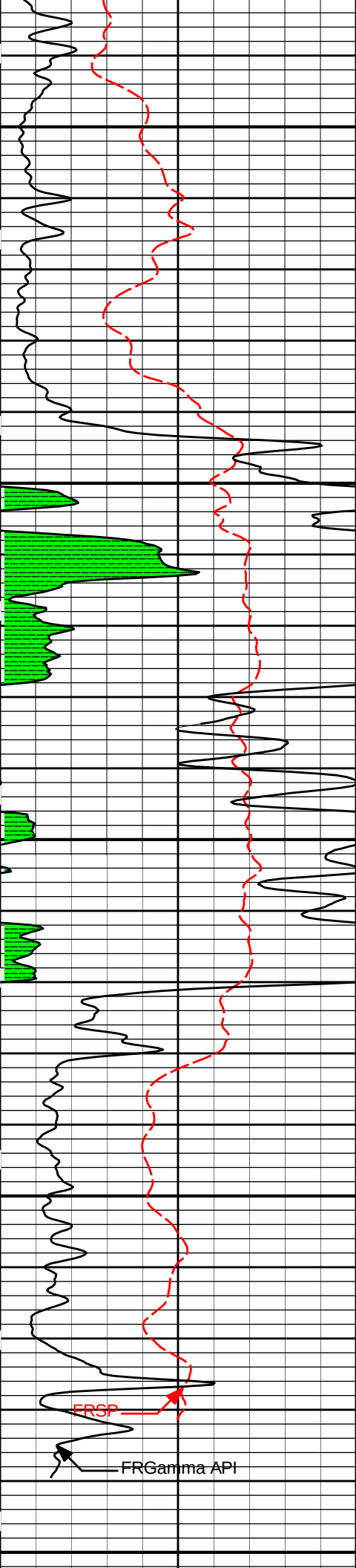


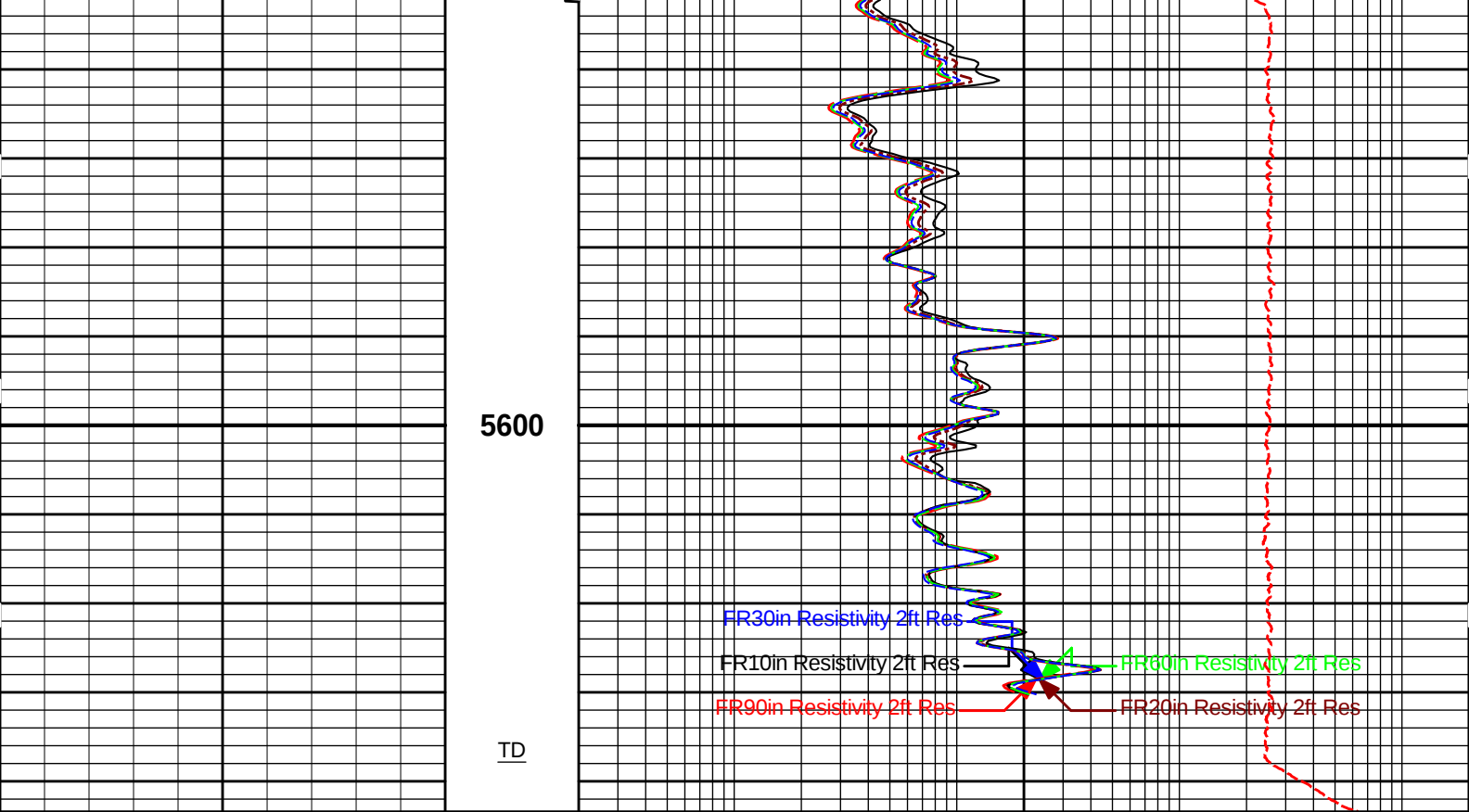


5200

5300







SP -J20[+	MD 1 : 240 ft	10K	Tension pounds	0
0	Gamma API	150	Tension Pull	0
api		0.2	10in Resistivity 2ft Res	2000
SHALE	Tension Pull	0.2	20in Resistivity 2ft Res	2000
		0.2	30in Resistivity 2ft Res	2000
		0.2	60in Resistivity 2ft Res	2000
		0.2	90in Resistivity 2ft Res	2000

HALLIBURTON

Plot Time: 01-Jun-12 12:15:46
Plot Range: 770 ft to 5643.42 ft
Data: WRIGLEY_1_11_SW\Well Based\CASING\
Plot File: \\-LOCAL-I\WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHI\ACRT_5_main.lib

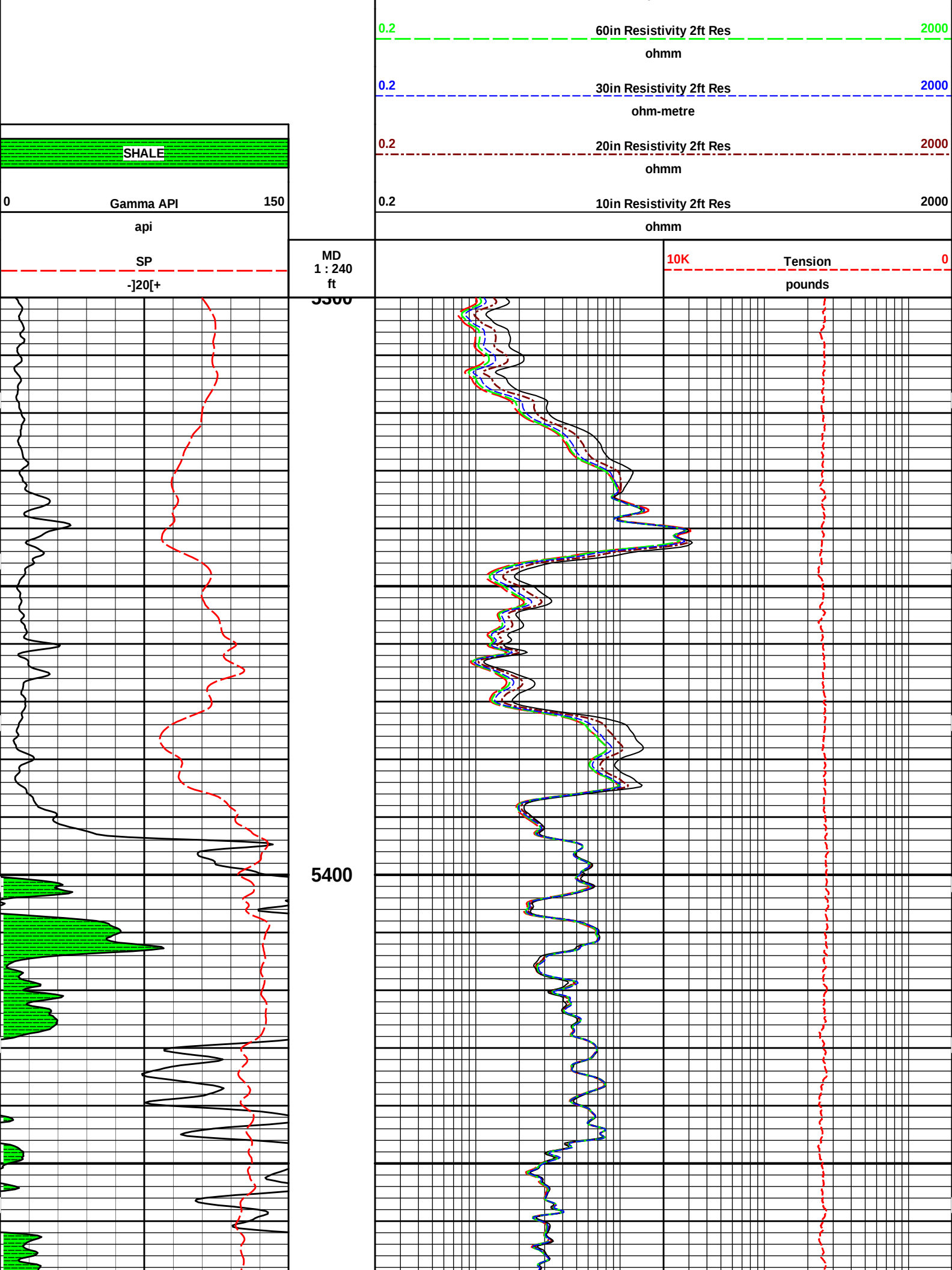
5 INCH MAIN LOG

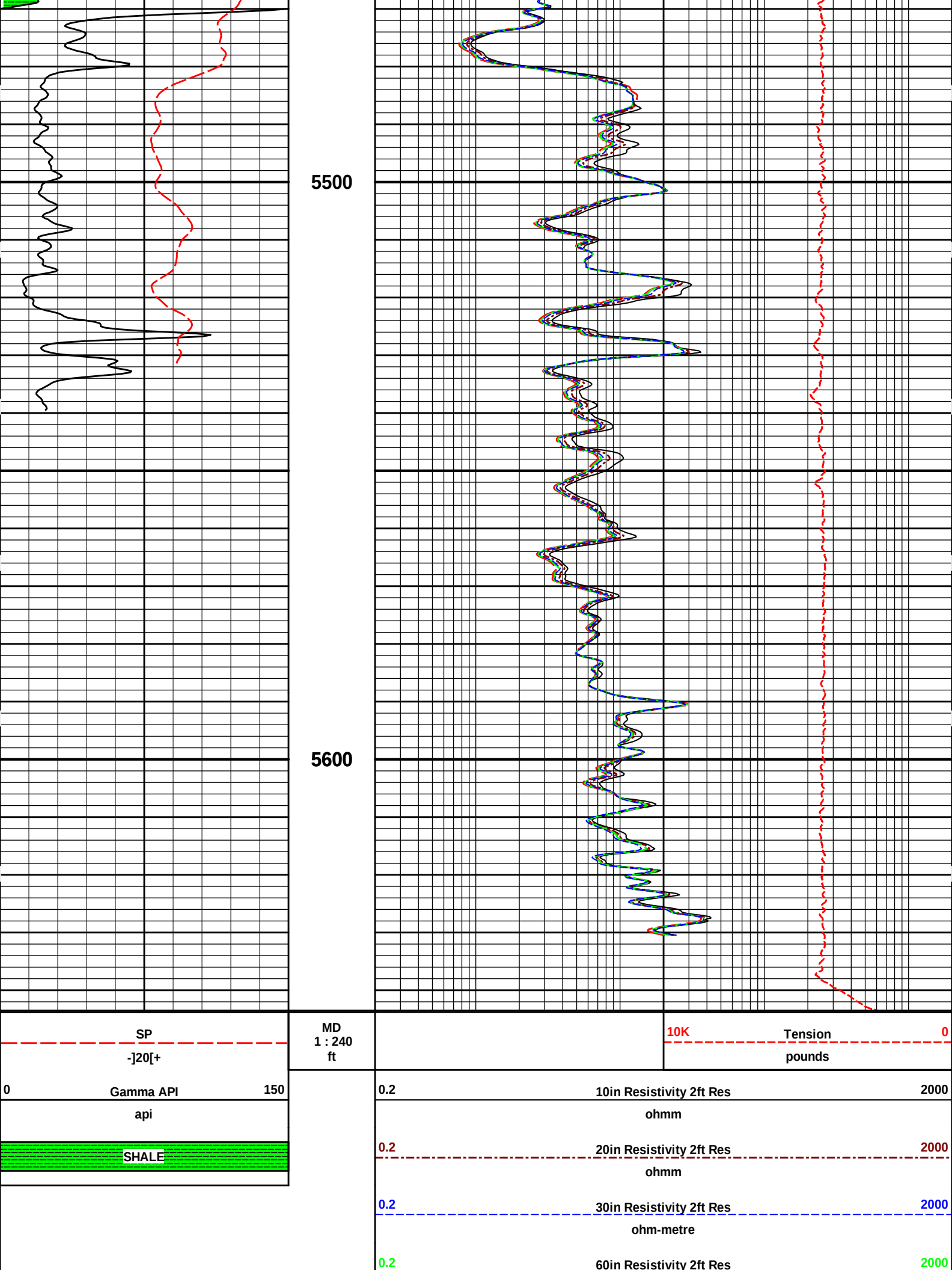
HALLIBURTON

Plot Time: 01-Jun-12 12:15:46
Plot Range: 5300 ft to 5643.5 ft
Data: WRIGLEY_1_11_SW\Well Based\REPEAT\
Plot File: \\-LOCAL-I\WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHI\ACRT_5_repeat.lib

REPEAT SECTION

0.2	90in Resistivity 2ft Res	2000
	ohmm	





	ohmm
0.2	90in Resistivity 2ft Res
	ohmm

HALLIBURTON

Plot Time: 01-Jun-12 12:15:48
Plot Range: 5300 ft to 5643.5 ft
Data: WRIGLEY_1_11_SW\Well Based\REPEAT\
Plot File: \\-LOCAL-WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHI\ACRT\ACRT_5_repeat.lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
Cable Head- PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	114.66 ft
						112.74 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 110.96 ft	3.74 ft	109.00 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 102.94 ft	8.52 ft	
						100.48 ft
DSN Decentralizer- 11005605 6.60 lbs		Ø 5.000 in* →				
DSNT-11019643 174.00 lbs		Ø 3.625 in →		← DSN Far @ 93.55 ft ← DSN Near @ 92.80 ft	9.69 ft	
						90.80 ft
SDLT-I43_M469 360.00 lbs	SDLT Pad-P81 65.00 lbs Microlog Pad-M489 8.00 lbs	Ø 4.500 in → Ø 4.750 in* → Ø 4.750 in* →		Microlog @ 82.98 ft SDL Caliper @ 82.80 ft SDL @ 82.79 ft	10.81 ft	
						79.98 ft

Flex Joint-
10834121
140.00 lbs

Ø 3.625 in →

5.67 ft

74.31 ft

IDT-1094
150.00 lbs

Ø 3.625 in →

7.58 ft

66.73 ft

ICT-633
330.00 lbs

Ø 3.625 in →

12.83 ft

← ICT Caliper @ 56.69 ft

53.90 ft

Centralizer 25-001
8.00 lbs

Ø 4.000 in* →



Wavesonic-I-
10753396
520.00 lbs

Ø 3.625 in →

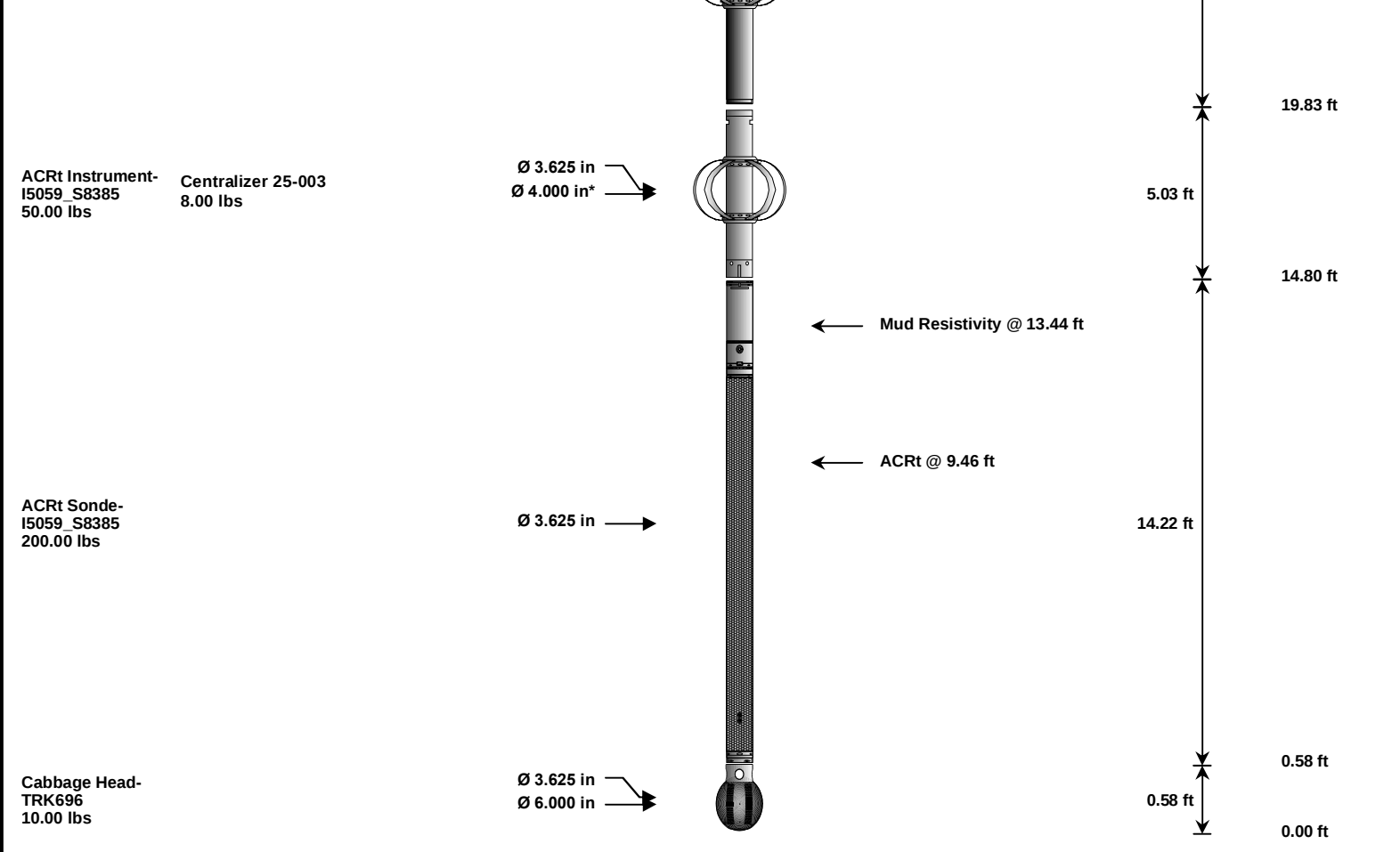
34.07 ft

← Wavesonic Delay @ 31.33 ft

Centralizer 25-002
8.00 lbs

Ø 4.000 in* →





Mnemonic		Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head		PROT01	30.00	1.92	112.74	300.00
SP	SP Sub		11441455	60.00	3.74	109.00	300.00
GTET	Gamma Telemetry Tool		11048627	165.00	8.52	100.48	60.00
DSNT	Dual Spaced Neutron		11019643	174.00	9.69	90.80	60.00
DCNT	DSN Decentralizer		11005605	6.60	5.13	* 94.13	300.00
SDLT	Spectral Density Tool		I43_M469	360.00	10.81	79.98	60.00
SDLP	Density Insite Pad		P81	65.00	2.55	* 82.19	60.00
MICP	Microlog Pad		M489	8.00	1.00	* 82.48	60.00
FLEX	Flex Joint		10834121	140.00	5.67	74.31	300.00
IDT	Insite Directional Tool		1094	150.00	7.58	66.73	30.00
ICT	Six Independent Arm Caliper		633	330.00	12.83	53.90	30.00
WSTT	WaveSonic Insite		10753396	520.00	34.07	19.83	30.00
OBCEN	Centralizer - 25 in. Overbody		002	8.00	2.08	* 22.61	300.00
OBCEN	Centralizer - 25 in. Overbody		001	8.00	2.08	* 48.18	300.00
ACRt	Array Compensated True Resistivity Instrument Section		I5059_S8385	50.00	5.03	14.80	300.00
OBCEN	Centralizer - 25 in. Overbody		003	8.00	2.08	* 16.27	300.00
ACRt	Array Compensated True Resistivity		I5059_S8385	200.00	14.22	0.58	300.00
CBHD	Cabbage Head		TRK696	10.00	0.58	0.00	300.00
Total				2,292.60	114.66		
* Not included in Total Length and Length Accumulation.							
Data: WRIGLEY_1_11_SW\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\IDLE						Date: 01-Jun-12 05:37:09	

Engineer: THOMAS HYDE				Calibration Date: 18-May-12 15:34:35			
Software Version: WL INSITE R3.4.2 (Build 2)		Calibration Version: 1					
Calibrator Source S/N: TB146							
Calibrator API Reference:265.00 api							
Equivalent Calibrator API Reference:269.6 api							
Measurement		Measured		Calibrated		Units	
Background		37.2		34.8		api	
Background + Calibrator		320.4		299.8		api	
Calibrator		262.6		265.0		api	

NATURAL GAMMA RAY TOOL FIELD CALIBRATION							
Tool Name: GTET - 11048627		Reference Calibration Date: 18-May-12 15:34:35					
Engineer: T. HYDE		Calibration Date: 01-Jun-12 04:33:58					
Software Version: WL INSITE R3.4.2 (Build 2)		Calibration Version: 1					
Calibrator Source S/N: TB146							
Calibrator API Reference:265.00 api							
Equivalent Calibrator API Reference:269.6 api							
Field Verification		Shop		Field		Units	
Background		34.8		21.9		api	
Background + Calibrator		299.8		288.4		api	
Calibrator		265.0		266.5		api	
Shop		Field		Difference		Tolerance	
265.0		266.5		-1.5		+/- 9.00	

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION							
Tool Name: ACRt Sonde - I5059_S8385		Reference Calibration Date: 24-Feb-12 14:27:07					
Engineer: T. HYDE		Calibration Date: 21-Apr-12 10:48:43					
Software Version: WL INSITE R3.4.2 (Build 2)		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	1.0222	1.05	0.95	1.0287	1.05	0.95	1.0321	1.05
A2 (50")	0.95	1.0100	1.05	0.95	1.0165	1.05	0.95	1.0193	1.05
A3 (29")	0.95	1.0064	1.05	0.95	1.0117	1.05	0.95	1.0115	1.05
A4 (17")	0.95	1.0050	1.05	0.95	1.0082	1.05	0.95	1.0089	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0104	1.05	0.95	1.0101	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9876	1.05	0.95	0.9873	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	1.125	2	-6	-3.379	-2	-8	-4.896	-2
A2 (50")	-7	-2.853	-1	-6	-3.973	-2	-7	-4.219	-2
A3 (29")	-27	-13.359	-9	-9	-3.585	-3	-7	-2.583	-1
A4 (17")	-180	-102.030	-60	-45	-31.789	-15	-39	-26.035	-13
A5 (10")	N/A	N/A	N/A	-150	-80.879	-50	-80	-41.152	-10
A6 (6")	N/A	N/A	N/A	175	339.890	525	90	168.379	270

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

12K	0.6	0.8660	1.3	Mud Cell	0.95	1.005	1.05
36K	1.0	1.3410	2.0				
72K	1.0	1.6112	2.0				
CALIBRATION SUMMARY							
Sensor	Shop	Field	Post	Difference	Tolerance	Units	
GTET-11048627							
Gamma Ray Calibrator	265.0	266.5	-----	-1.5	+/- 9.00	api	
ACRt Sonde-I5059_S8385							
Mud Cell	1.005	-----	-----	0.000	-----	ohm-m	
Data: WRIGLEY_1_11_SW0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHNIDLE							Date: 01-Jun-12 05:44:00

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	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	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	5655.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	IDT	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	IDT	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TRSO	Tool Position for Gamma Ray Tool Standoff	Feet in hole	

GTEI	IPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
Microlog Pad	MLOK	Process MicroLog 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
IDT	WRTI	Survey Writing Interval	30	ft
IDT	SOPT	Smoothing Option	None	
ICT	CLOK	Process Caliper Outputs?	Yes	
ICT	NAVS	Navigation Source Tool	IDT	
Wavesonic-I	WSOK	Process WSTT?	Yes	
Wavesonic-I	MSWN	Monopole Sliding Window Length	-1.00	us
Wavesonic-I	DSWN	Dipole Sliding Window Length	-1.00	us
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	SMTH	Semblance Smoothing	-2.00	
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	STOL	Slow Tolerance	40.00	
Wavesonic-I	SMTL	Semblance Tolerance	0.25	
Wavesonic-I	SMTL	Semblance Threshold	0.25	
Wavesonic-I	VPVS	VPVS Ratio for Porosity	1.40	
Wavesonic-I	APEQ	Acoustic Porosity Equation	Wylie	
Wavesonic-I	SHAO	Show Advanced Options?	Yes	
Wavesonic-I	WRNM	Wavesonic Receiver Normalization Method	None	
Wavesonic-I	DTRM	Transmitter to First Receiver Distance - Monopole	10.24	ft
Wavesonic-I	DTRX	Transmitter to First Receiver Distance Dipole X	9.24	ft
Wavesonic-I	DRY	Transmitter to First Receiver Distance Dipole Y	9.24	ft
Wavesonic-I	DIRM	Receiver Spacing	0.50	ft
Wavesonic-I	NRAM	Number of Receivers in Array	8	
Wavesonic-I	DWCM	Digitizer Word Count Monopole	400	
Wavesonic-I	DSIM	Digital Sample Interval - Monopole	20.3174	us
Wavesonic-I	WDDM	Waveform Recording Delay Monopole	-304.761	us
Wavesonic-I	DWCX	Digitizer Word Count Dipole X	400	
Wavesonic-I	DSIX	Digital Sample Interval Dipole X	40.635	us
Wavesonic-I	WDDX	Waveform Digitization Delay Dipole X	-304.761	us
Wavesonic-I	DWCY	Digitizer Word Count Dipole Y	400	
Wavesonic-I	DSIY	Digital Sample Interval Dipole Y	40.635	us
Wavesonic-I	WDDY	Waveform Digitization Delay Dipole Y	-304.761	us

Wavesonic-I	NAVS	Navigation Source Tool	IDT	
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	
BOTTOM_____				
Data: WRIGLEY_1_11_SWI0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CHIDLE				Date: 01-Jun-12 05:41:06

HALLIBURTON INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	110.96	NO	
SP	Spontaneous Potential	110.96	BLK	1.250
SPR	Raw Spontaneous Potential	110.96	NO	
SPO	Spontaneous Potential Offset	110.96	NO	
GTET				
TPUL	Tension Pull	102.94	NO	
GR	Natural Gamma Ray API	102.94	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	102.94	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	102.94	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	92.70	NO	
RNDS	Near Detector Telemetry Counts	92.80	BLK	1.417
RFDS	Far Detector Telemetry Counts	93.55	TRI	0.583
DNTT	DSN Tool Temperature	92.80	NO	
DSNS	DSN Tool Status	92.70	NO	
ERND	Near Detector Telemetry Counts EVR	92.80	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	93.55	BLK	0.000
ENTM	DSN Tool Temperature EVR	92.80	NO	
SDLT				
TPUL	Tension Pull	82.80	NO	
PCAL	Pad Caliper	82.80	TRI	0.250
ACAL	Arm Caliper	82.80	TRI	0.250
IDT				
TPUL	Tension Pull	67.73	NO	
ACCX	Accelerometer X	67.73	NO	
ACCY	Accelerometer Y	67.73	NO	
ACCZ	Accelerometer Z	67.73	NO	

ACE	Accelerometer Z	67.73	NO	
MAGX	magnetometer x with unit	67.73	NO	
MAGY	Magnetometer Y with unit	67.73	NO	
MAGZ	magnetometer z with unit	67.73	NO	
IAMP	Accelerometer Temperature	67.73	NO	
MTMP	Magnetometer Temperature	67.73	NO	
ICT				
TPUL	Tension Pull	56.69	NO	
	Arm Potentiometer excitation V	53.90	NO	
	Caliper 1 measurement	56.69	BLK	1.250
	Caliper 2 measurement	56.69	BLK	1.250
	Caliper 3 measurement	56.69	BLK	1.250
	Caliper 4 measurement	56.69	BLK	1.250
	Caliper 5 measurement	56.69	BLK	1.250
	Caliper 6 measurement	56.69	BLK	1.250
	Caliper Global measurement	56.69	BLK	1.250
MOTI	Motor Current	53.90	NO	
MOT1	Motor Voltage Monitor 1	53.90	NO	
STA1	Status word #1	53.90	NO	
STA2	Status word #2	53.90	NO	
PRES	Caliper percentage of total compression of the spring	53.90	NO	
HAZI	Hole Azimuth	56.69	NO	
RB	Relative Bearing	56.69	NO	
AZI1	PAD1 Azimuth	56.69	NO	
DEVI	Inclination	56.69	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	

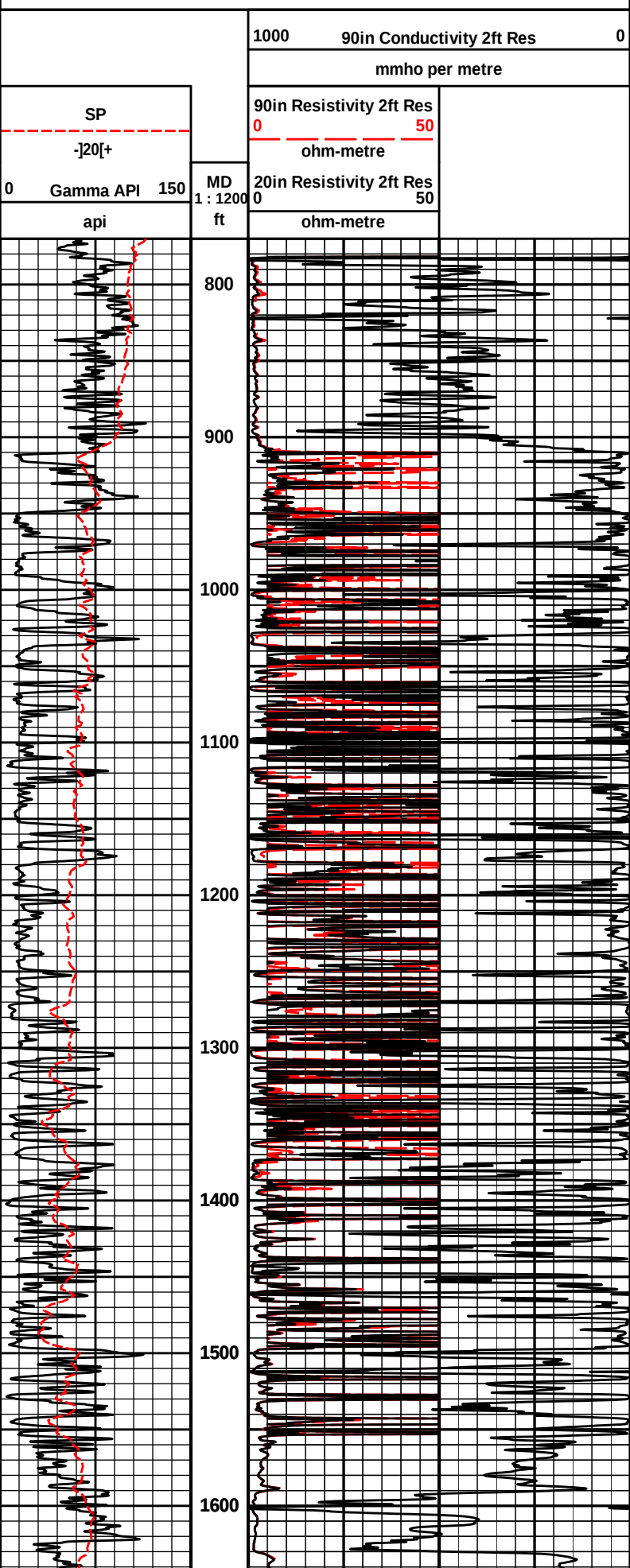
DBI	Delay Reference	31.33	NO
MITM	MIT Mode	31.33	NO
VERS	Version	19.83	NO
D1CT	Dipole 1 Compressed Word Count	31.33	NO
D2CT	Dipole 2 Compressed Word Count	31.33	NO
MCNT	Monopole Compressed Word Count	31.33	NO
SEQN	Sequence Number	19.83	NO
FREV	Firmware Revision	19.83	NO
MSMP	Monopole Sample Rate	19.83	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 Structurel	19.83	NO
DPSY	Dipole Source Y Structurel	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

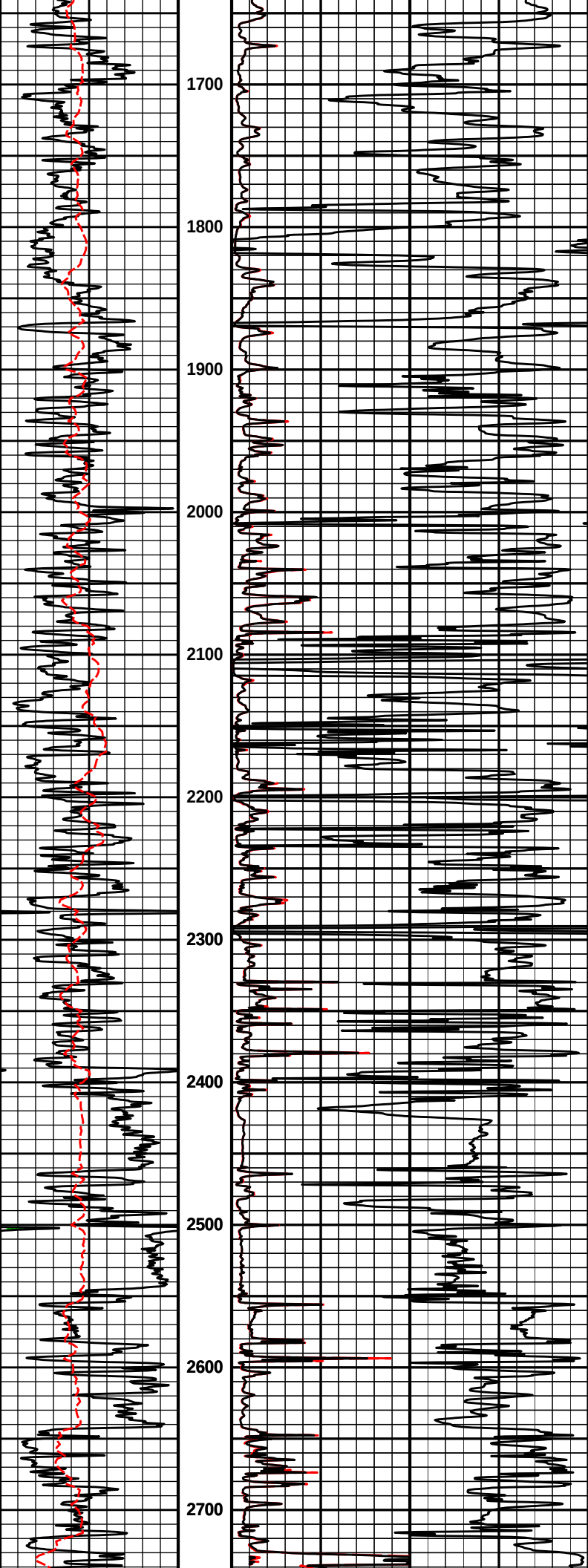
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
ACRt 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	

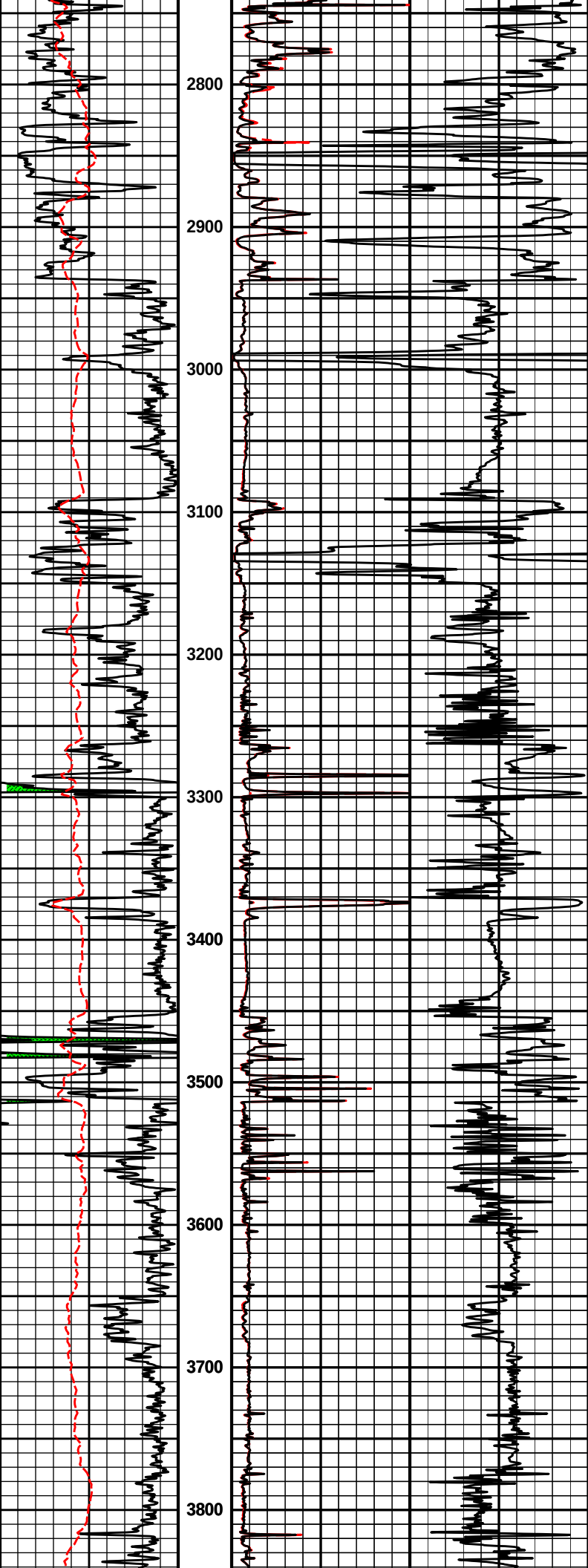
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
Microlog Pad				
TPUL	Tension Pull	82.98	NO	
MINV	Microlog Lateral	82.98	BLK	0.750
MNOR	Microlog Normal	82.98	BLK	0.750
SDLT Pad				
TPUL	Tension Pull	82.79	NO	
NAB	Near Above	82.61	BLK	0.920
NHI	Near Cesium High	82.61	BLK	0.920
NLO	Near Cesium Low	82.61	BLK	0.920
NVA	Near Valley	82.61	BLK	0.920
NBA	Near Barite	82.61	BLK	0.920
NDE	Near Density	82.61	BLK	0.920
NPK	Near Peak	82.61	BLK	0.920
NLI	Near Lithology	82.61	BLK	0.920
NBAU	Near Barite Unfiltered	82.61	BLK	0.250
NLIU	Near Lithology Unfiltered	82.61	BLK	0.250
FAB	Far Above	82.96	BLK	0.250
FHI	Far Cesium High	82.96	BLK	0.250
FLO	Far Cesium Low	82.96	BLK	0.250
FVA	Far Valley	82.96	BLK	0.250
FBA	Far Barite	82.96	BLK	0.250
FDE	Far Density	82.96	BLK	0.250
FPK	Far Peak	82.96	BLK	0.250
FLI	Far Lithology	82.96	BLK	0.250
PTMP	Pad Temperature	82.80	BLK	0.920
NHV	Near Detector High Voltage	82.19	NO	
FHV	Far Detector High Voltage	82.19	NO	
ITMP	Instrument Temperature	82.19	NO	
DDHV	Detector High Voltage	82.19	NO	
Data: WRIGLEY_1_11_SW0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH1DLE			Date: 01-Jun-12 05:39:57	

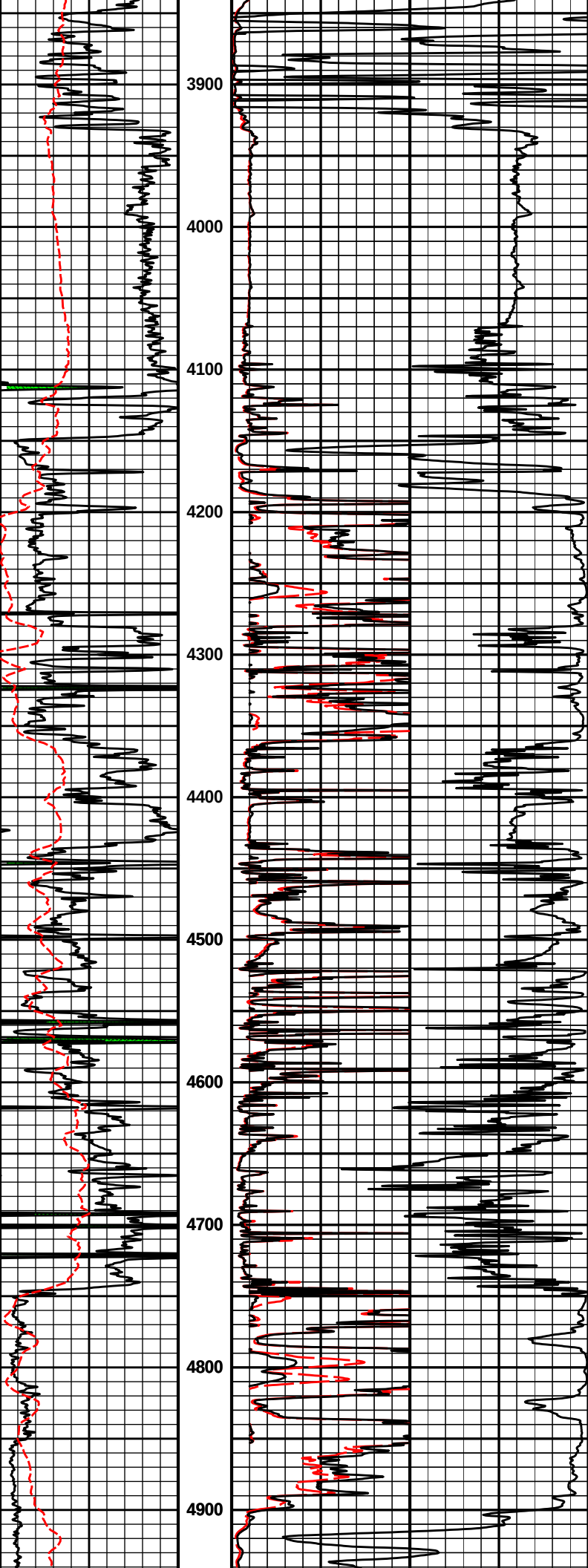
COMPANY	SANDRIDGE ENERGY		
WELL	WRIGLEY 1-11 SWD		
FIELD	WILDCAT		
COUNTY	HARPER	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	

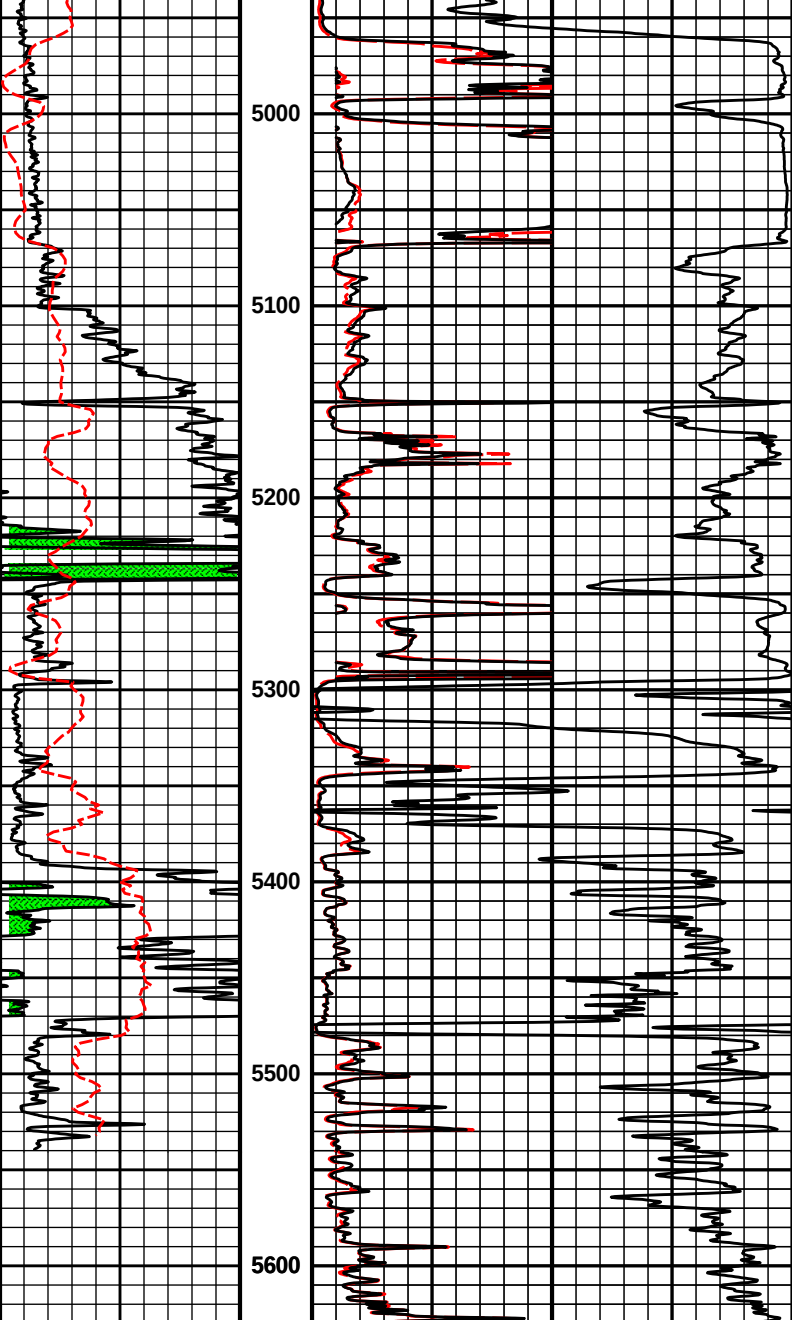
HALLIBURTON Plot Time: 01-Jun-12 12:15:48 Plot Range: 770 ft to 5630.25 ft Data: WRIGLEY_1_11_SW\Well Based\CASING\ Plot File: \\LOCAL\WRIGLEY_1_11_SW\ACRT_1.lib
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0	Gamma API	150	MD 1 : 1200 ft	20in Resistivity 2ft Res	50	
				ohm-metre		
				90in Resistivity 2ft Res	0 50	
				ohm-metre		
				1000 90in Conductivity 2ft Res 0		
				mmho per metre		

HALLIBURTON
Plot Time: 01-Jun-12 12:15:50
Plot Range: 770 ft to 5630.25 ft
Data: WRIGLEY_1_11_SW\Well Based\CASING\
Plot File: \\LOCAL-WRIGLEY_1_11_SW\...IACRT_1.lib

1 INCH MAIN LOG