

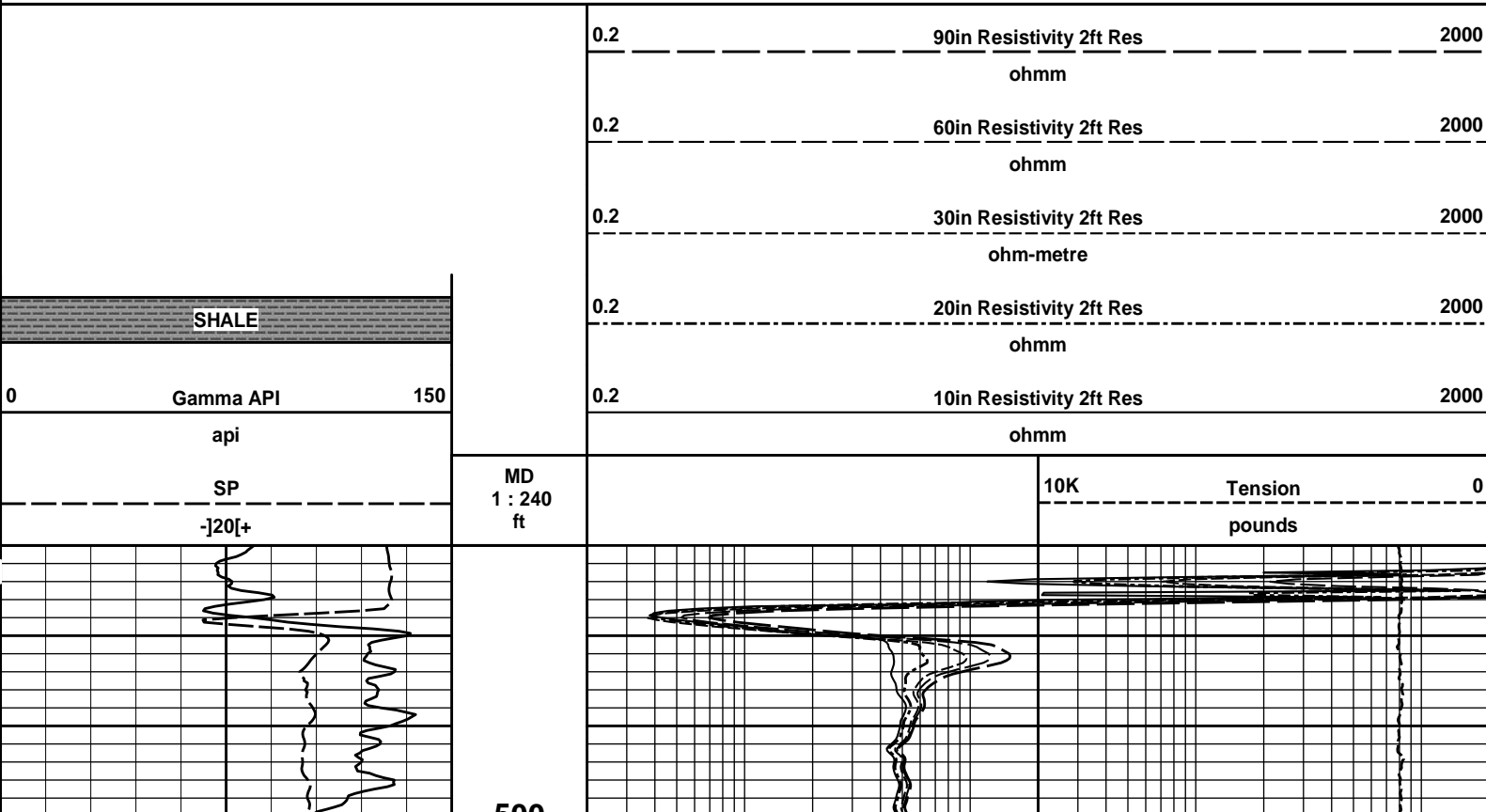
ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

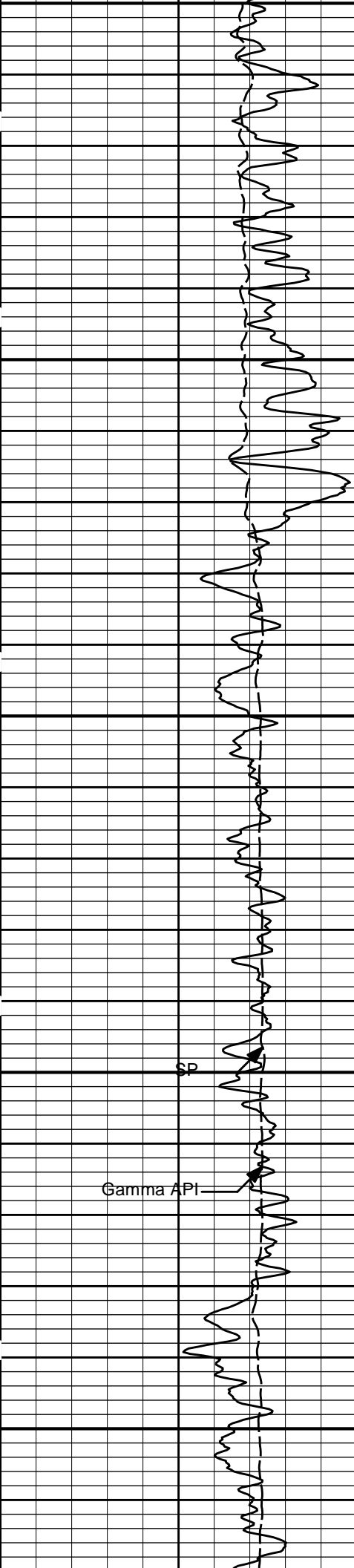
COMPANY	VAL ENERGY	
WELL	CHRISTINA 1-2	
FIELD/BLOCK	WILDCAT	
COUNTY	CROWLEY	STATE COLORADO
API No.	05-025-06021-00-00	Other Services: DSNT/SDLT MICROLOG BSAT ACRT MRIL
Location	(SHL) 1550' FNL & 1010' FEL SE NE	
Sect. 2	Twp. 20S	Rge. 56W

Fold here

Service Ticket No.: 901842046						API Serial No.: 05-025-06021-00-00						PGM Version: WL INSITE R4.4.3 (Build 6)					
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	CENT	N/A							
Rmc @ Meas. Temp.		@		@			10929776										
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.	10748374		Serial No.	10747684		Serial No.	10673803		Serial No.	10735145							
Model No.	GTET		Model No.	BSAT		Model No.	SDLT		Model No.	DSNT							
Diameter	3.625"		No. of Cent.	2		Diameter	5.3"		Diameter	3.625"							
Detector Model No.	T-102		Spacing	0.5'		Log Type	GAM-GAM		Log Type	NEU-NEU							
Type	T-102					Source Type	CS-137		Source Type	AM241BE							
Length	8"		LSA [Y/N]			Serial No.	5073GW		Serial No.	DSN-436							
Distance to Source	N/A		FWDA [Y/N]			Strength	1.5 CI		Strength	15.0 CI							

LOGGING DATA

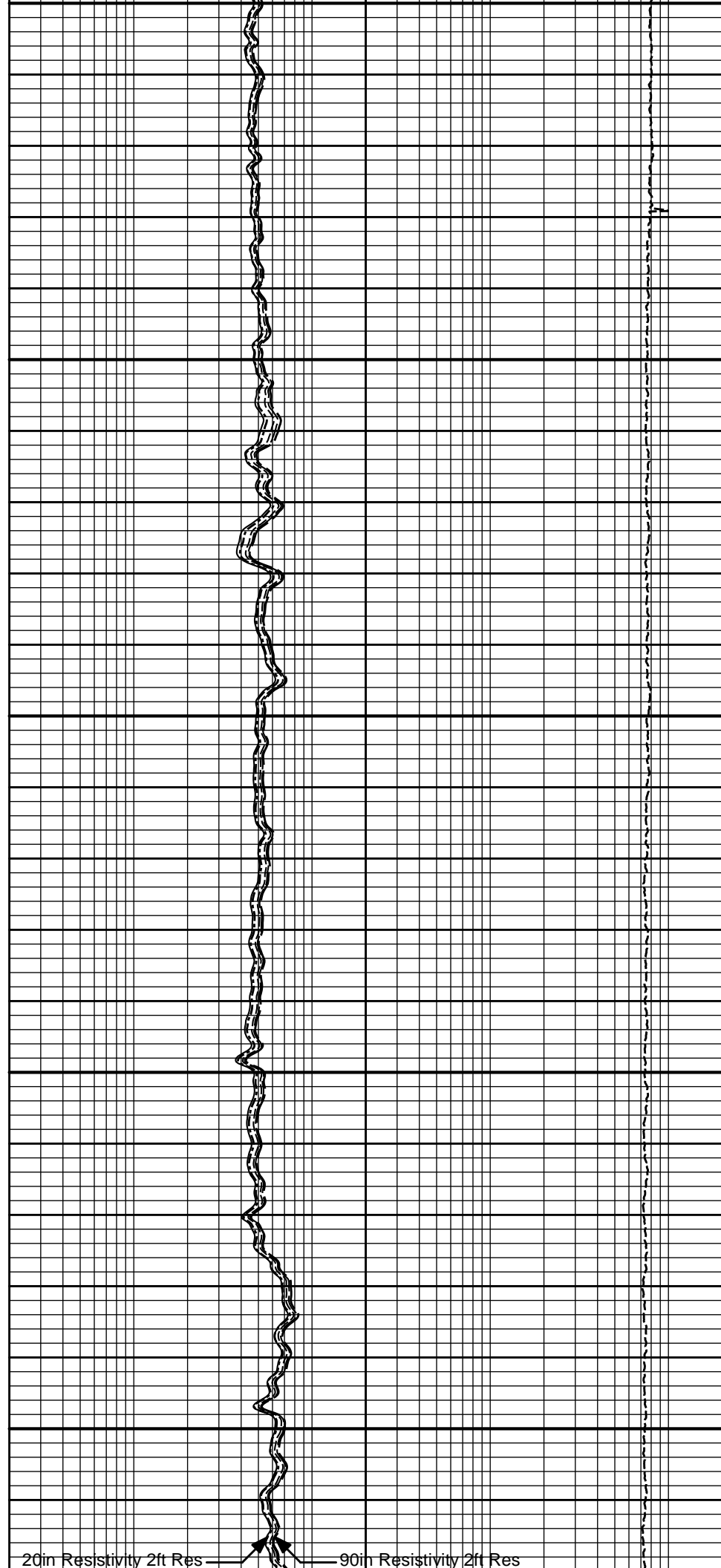
[illegible]

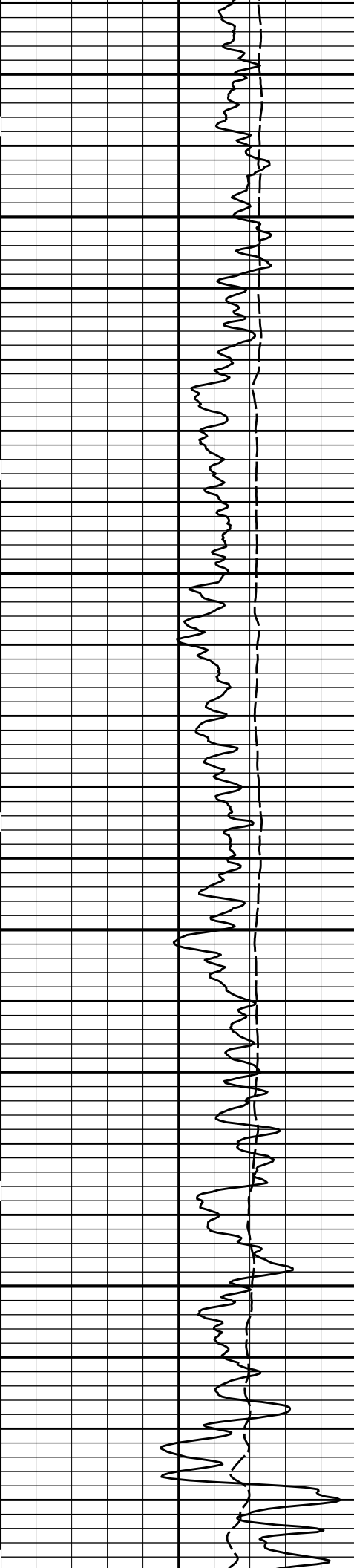


500

600

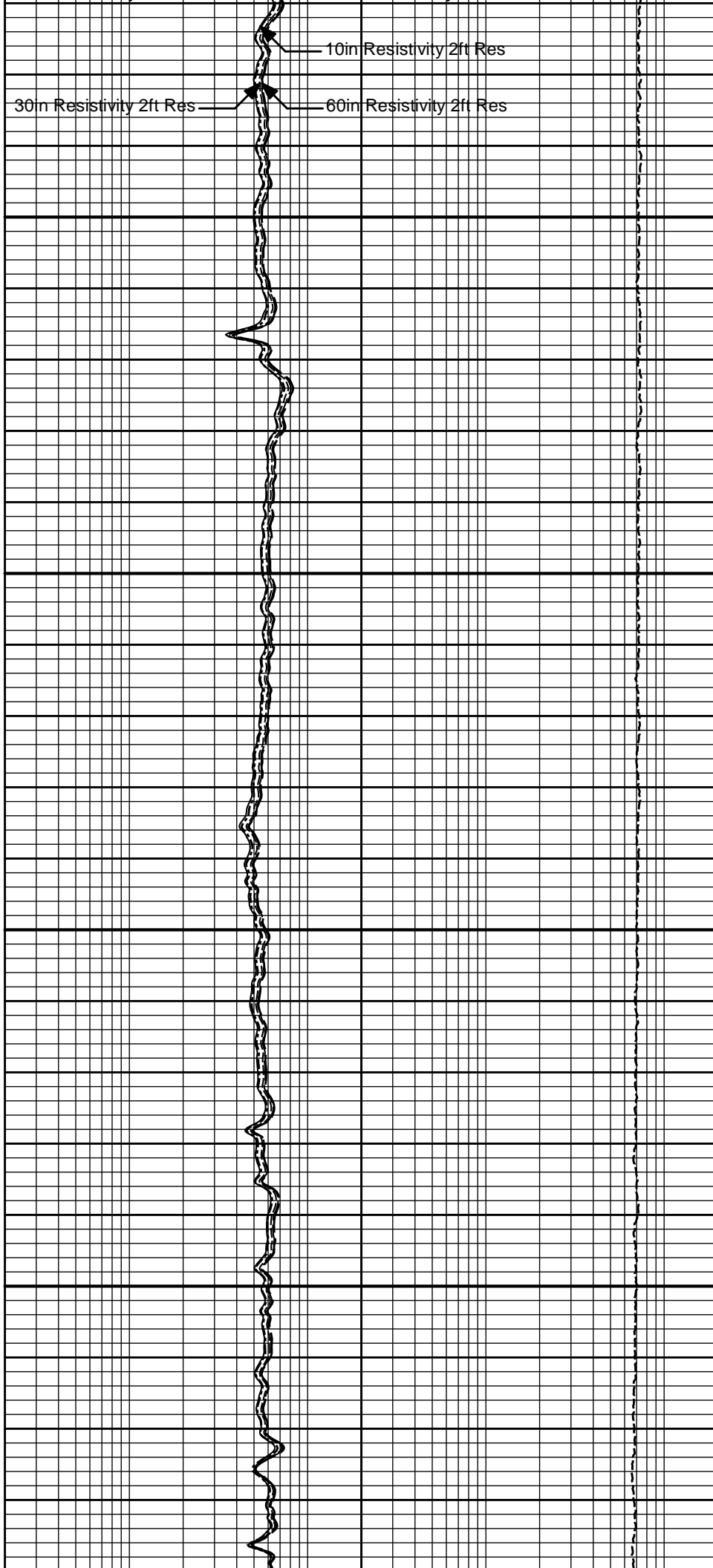
700

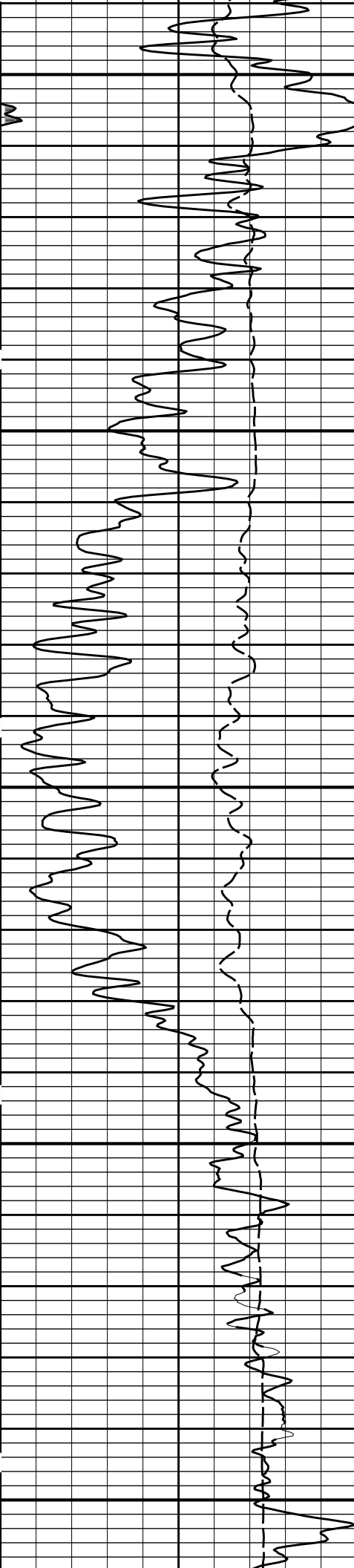




800

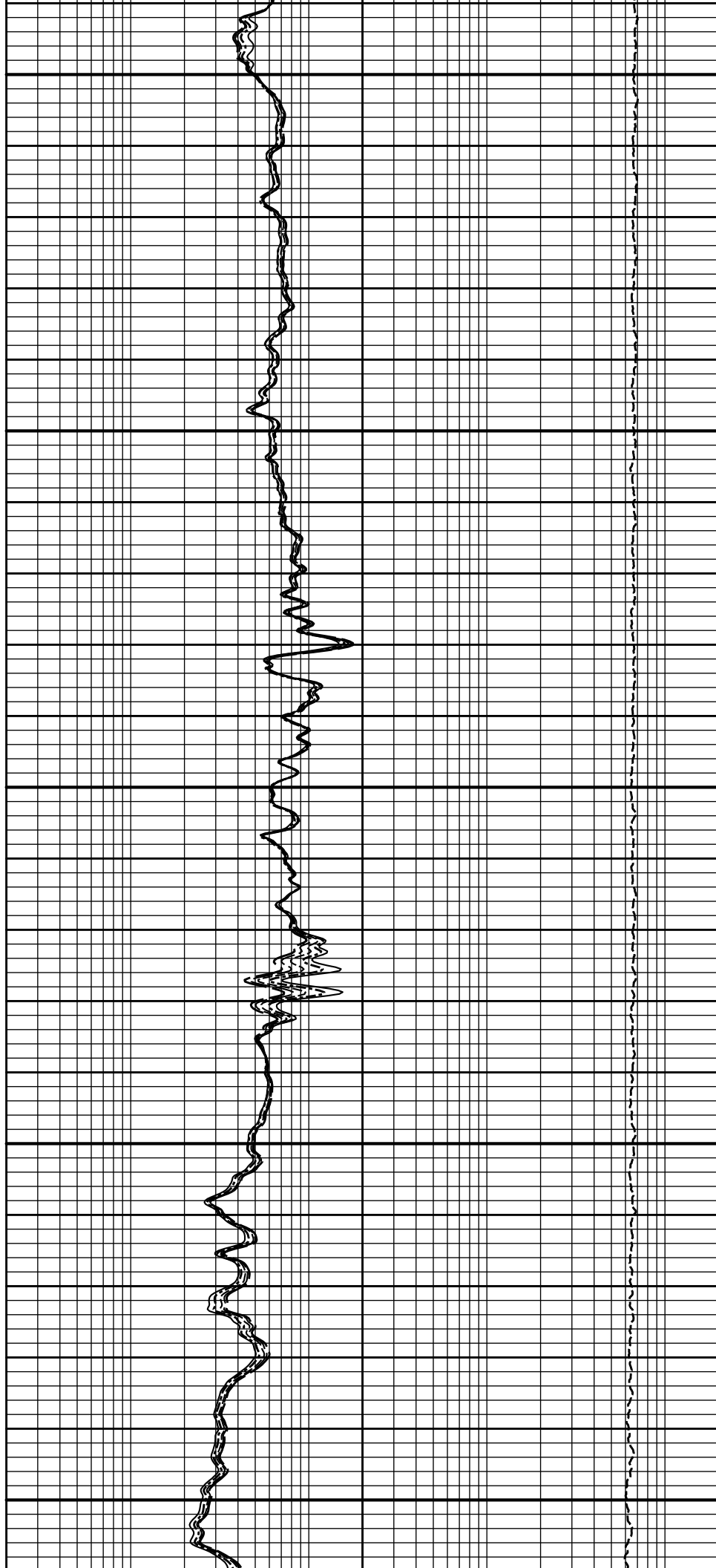
900

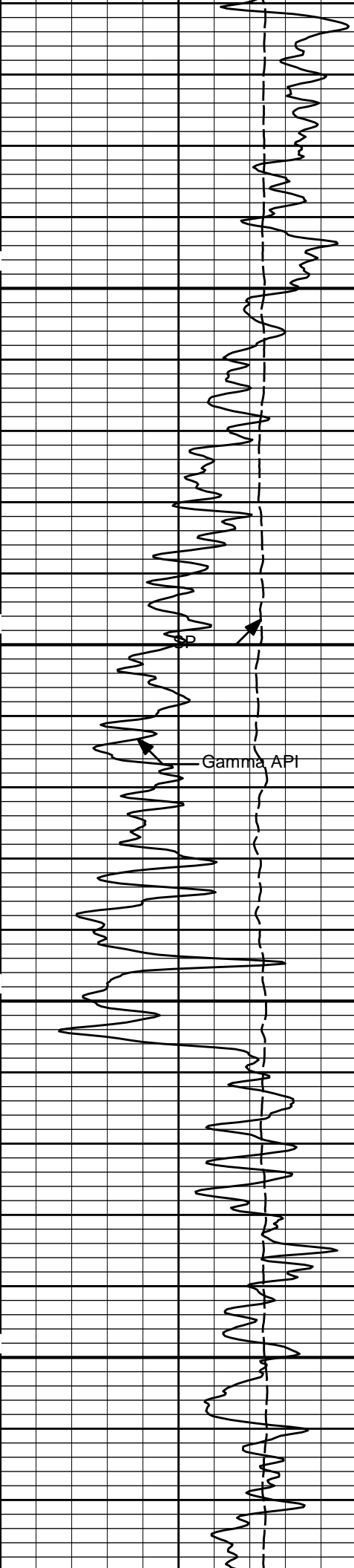




1000

1100

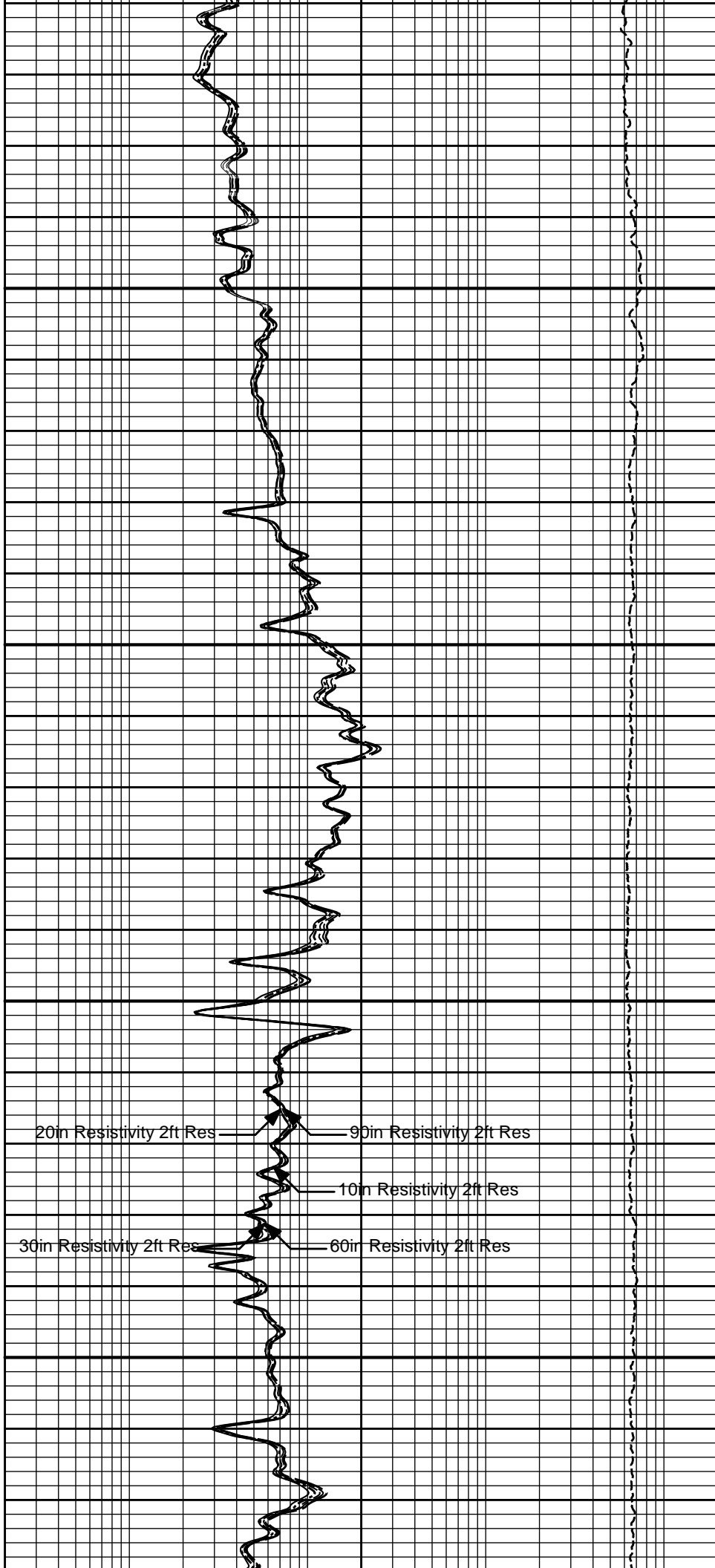




1200

1300

Gamma API



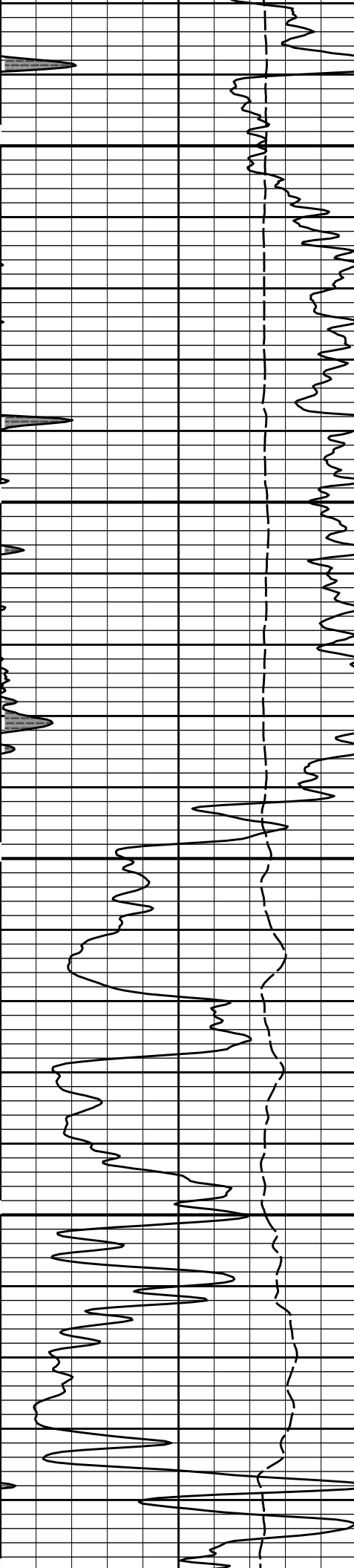
20in Resistivity 2ft Res

90in Resistivity 2ft Res

10in Resistivity 2ft Res

30in Resistivity 2ft Res

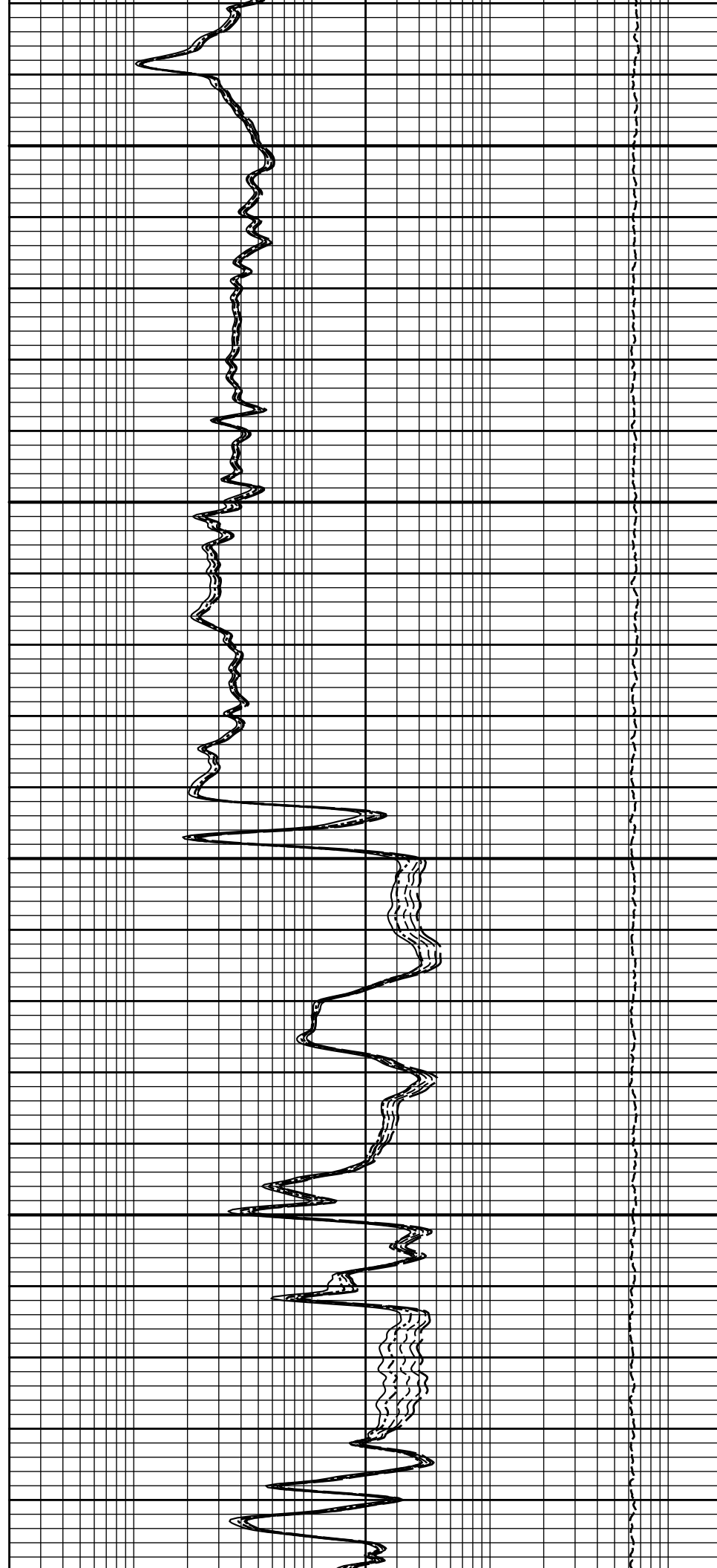
60in Resistivity 2ft Res

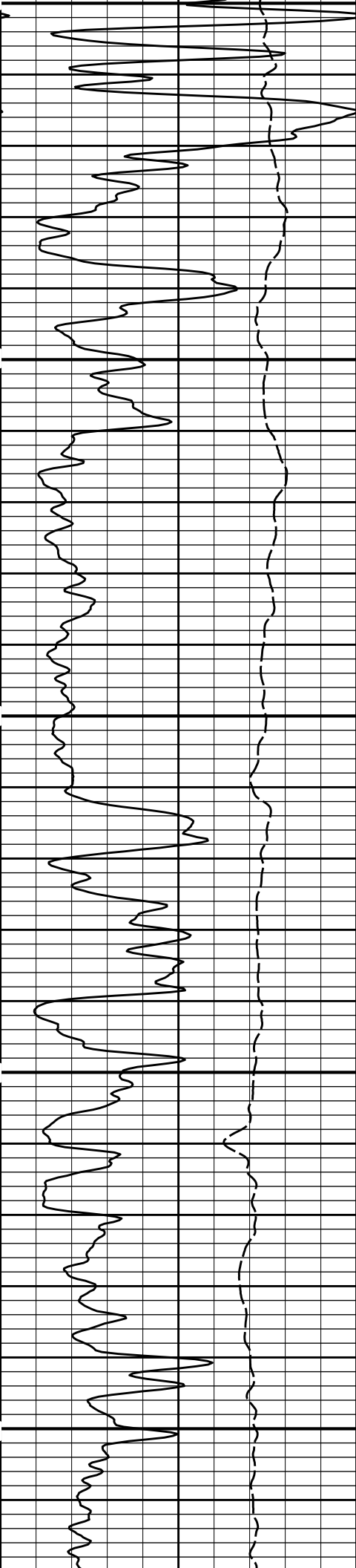


1400

1500

1600

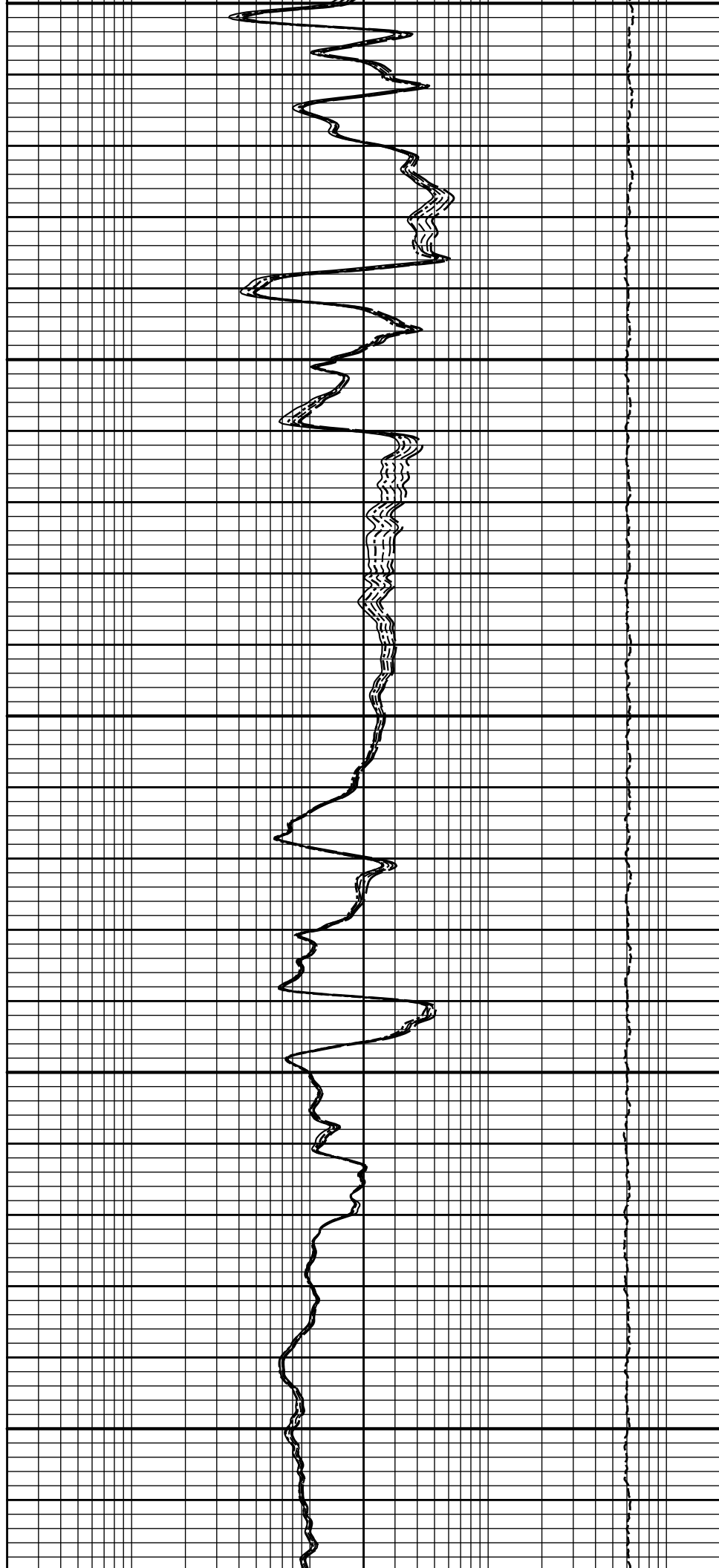


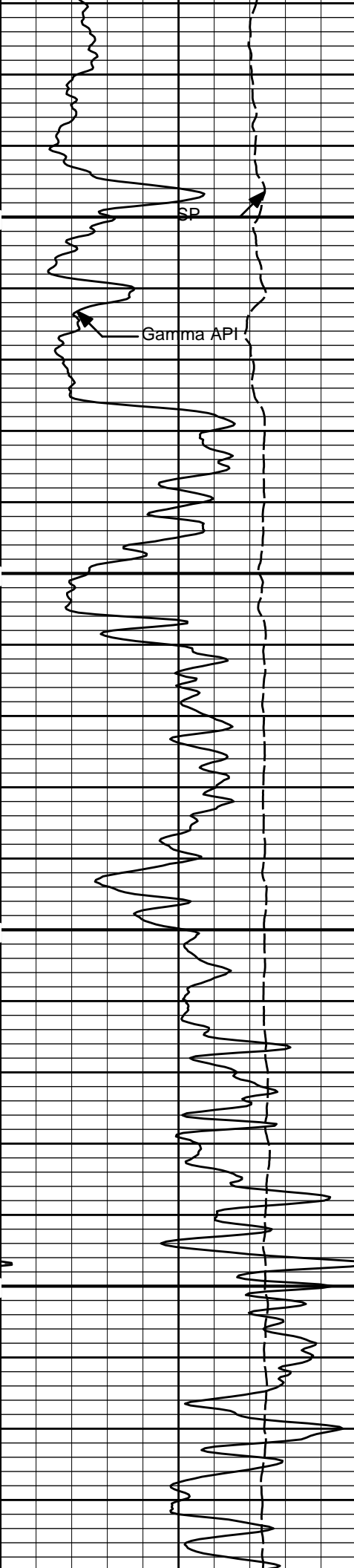


1600

1700

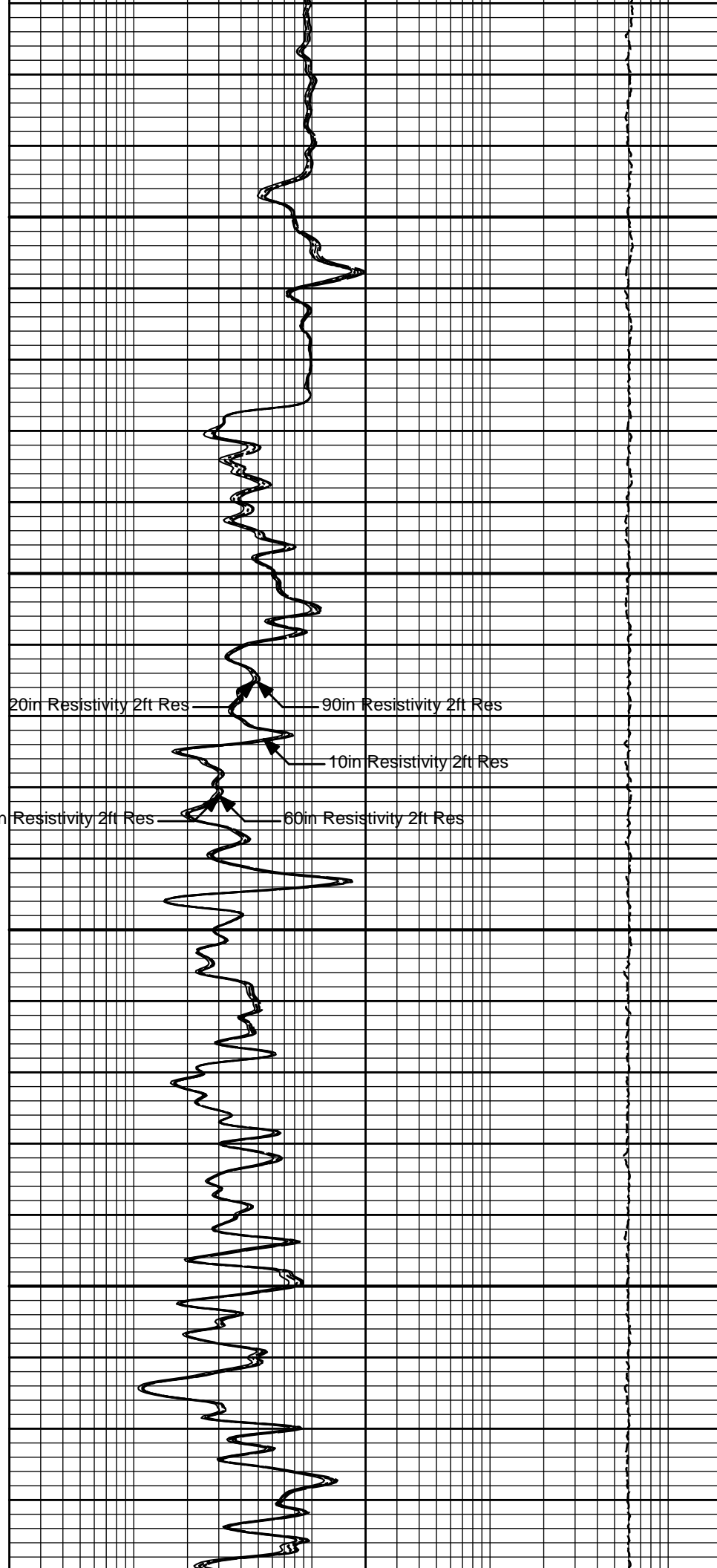
1800





1900

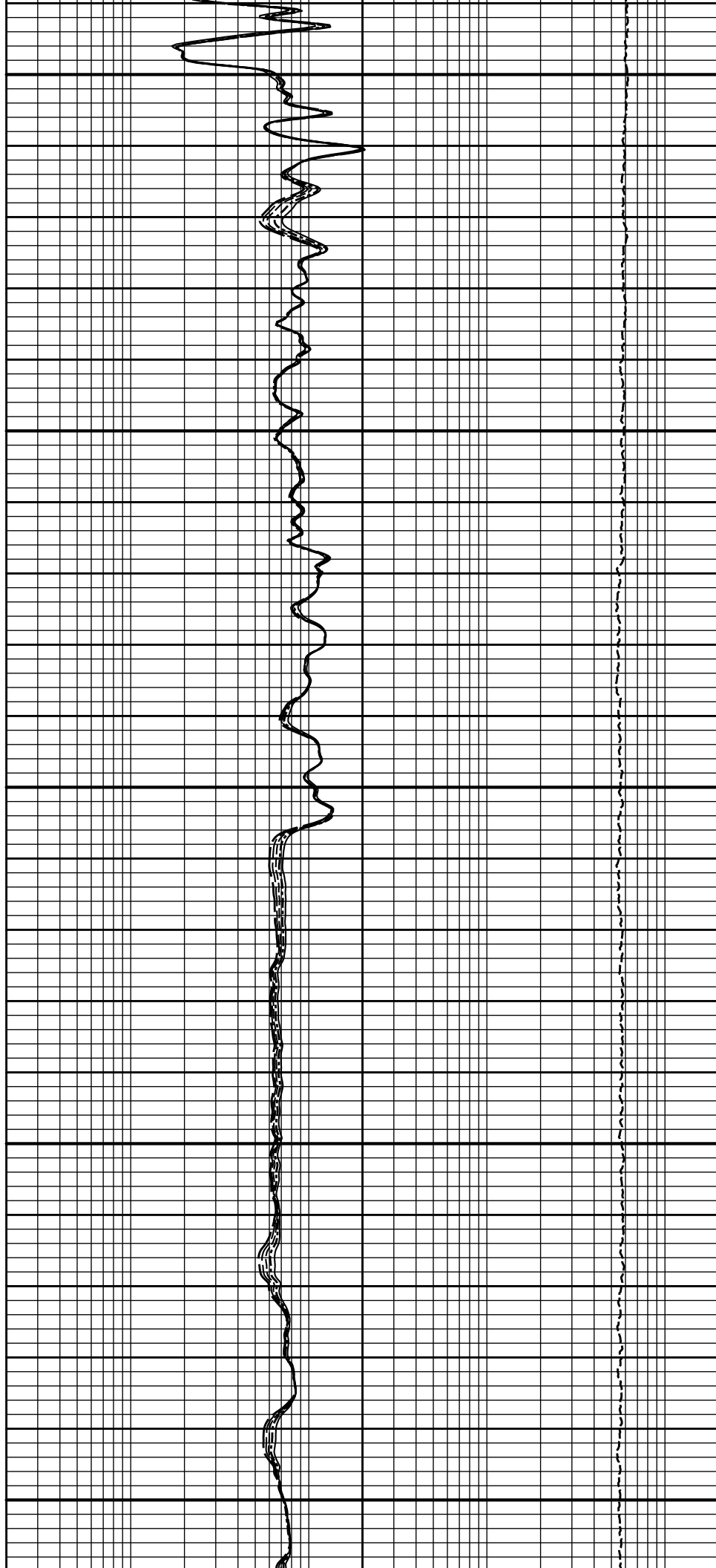
2000

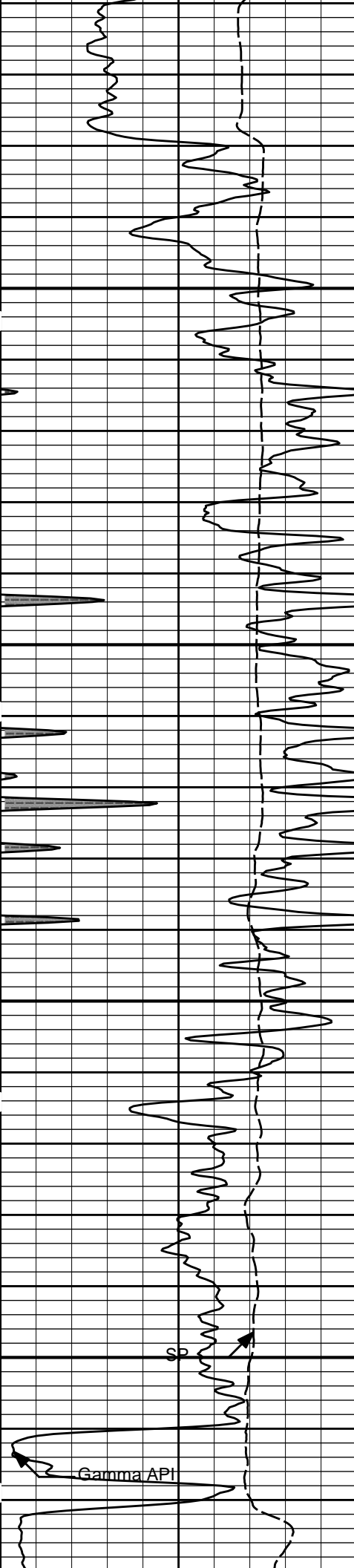




2100

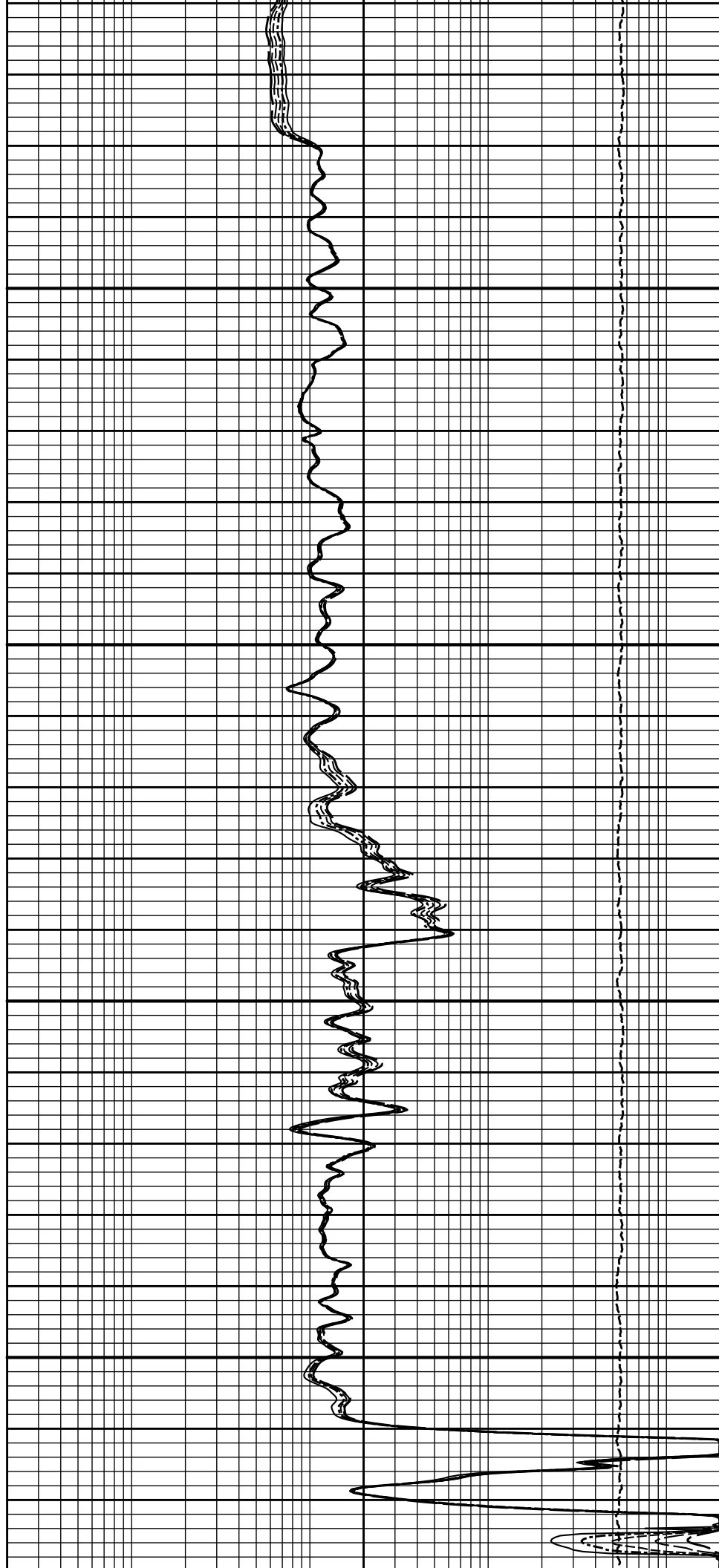
2200

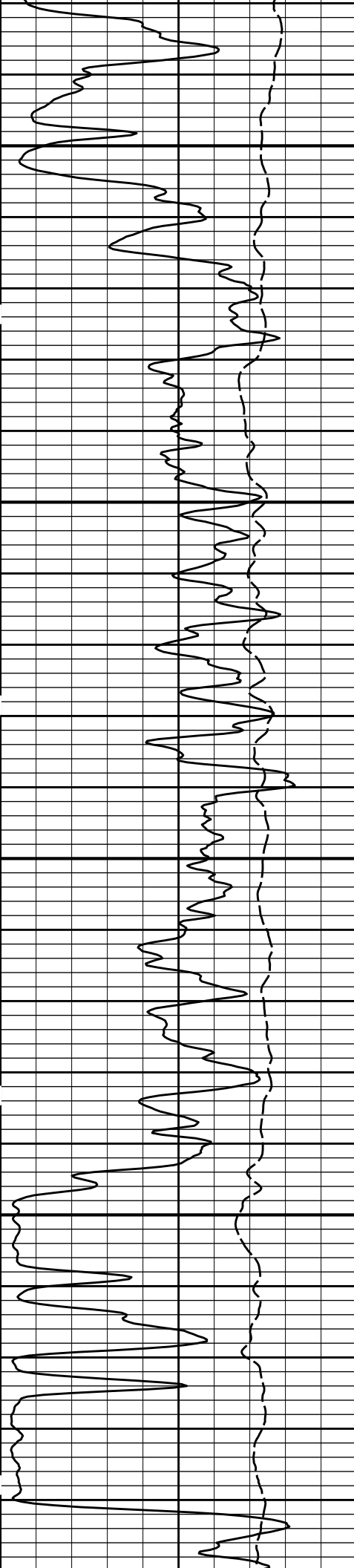




2300

2400

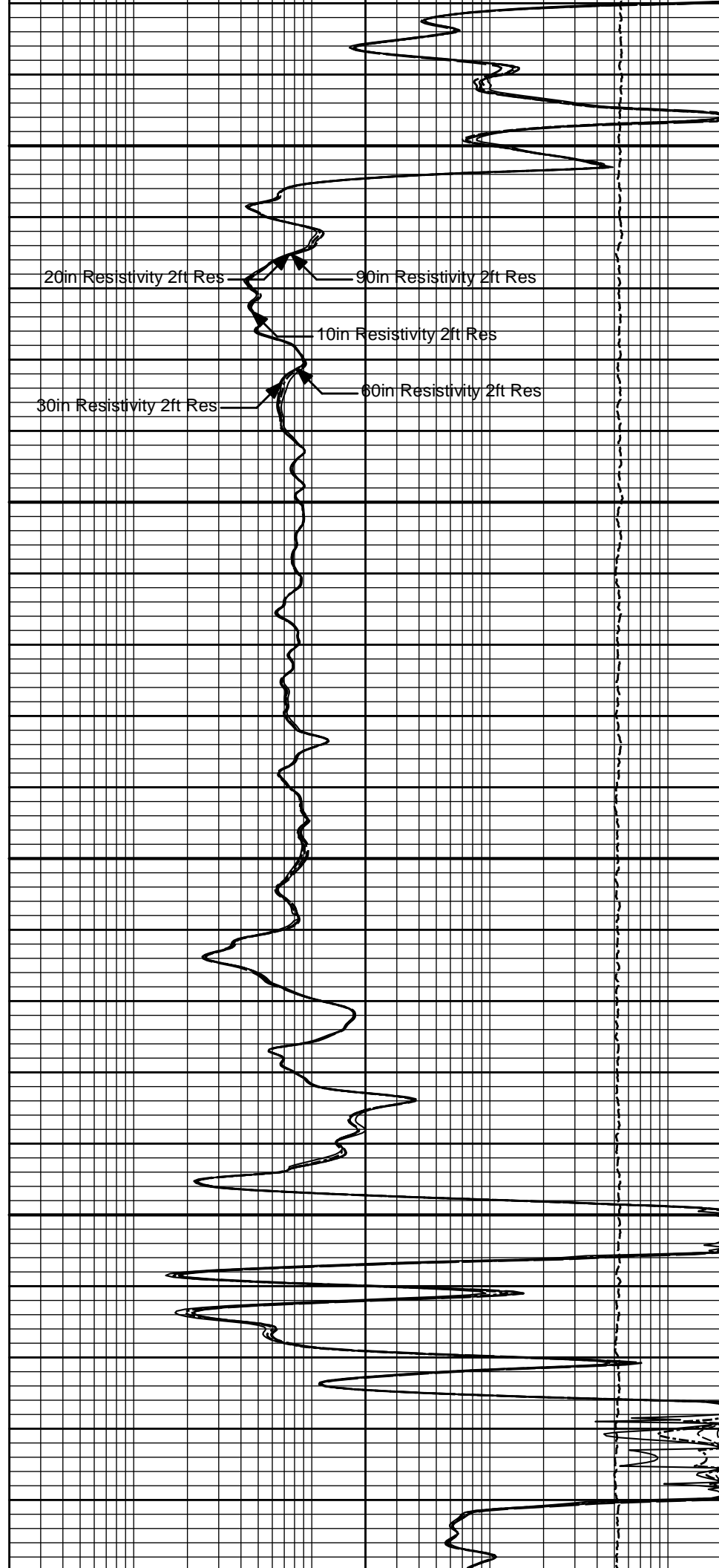


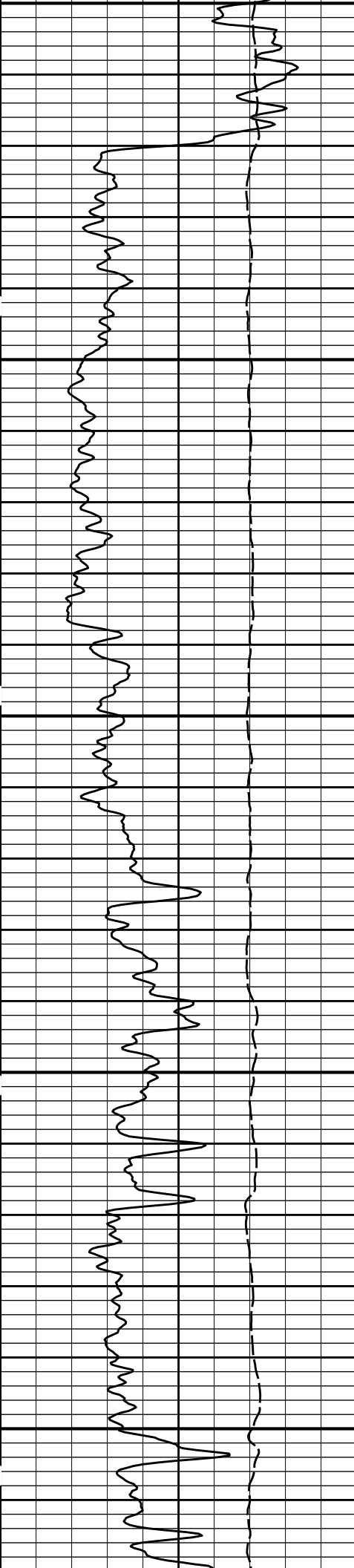


2500

2600

2700

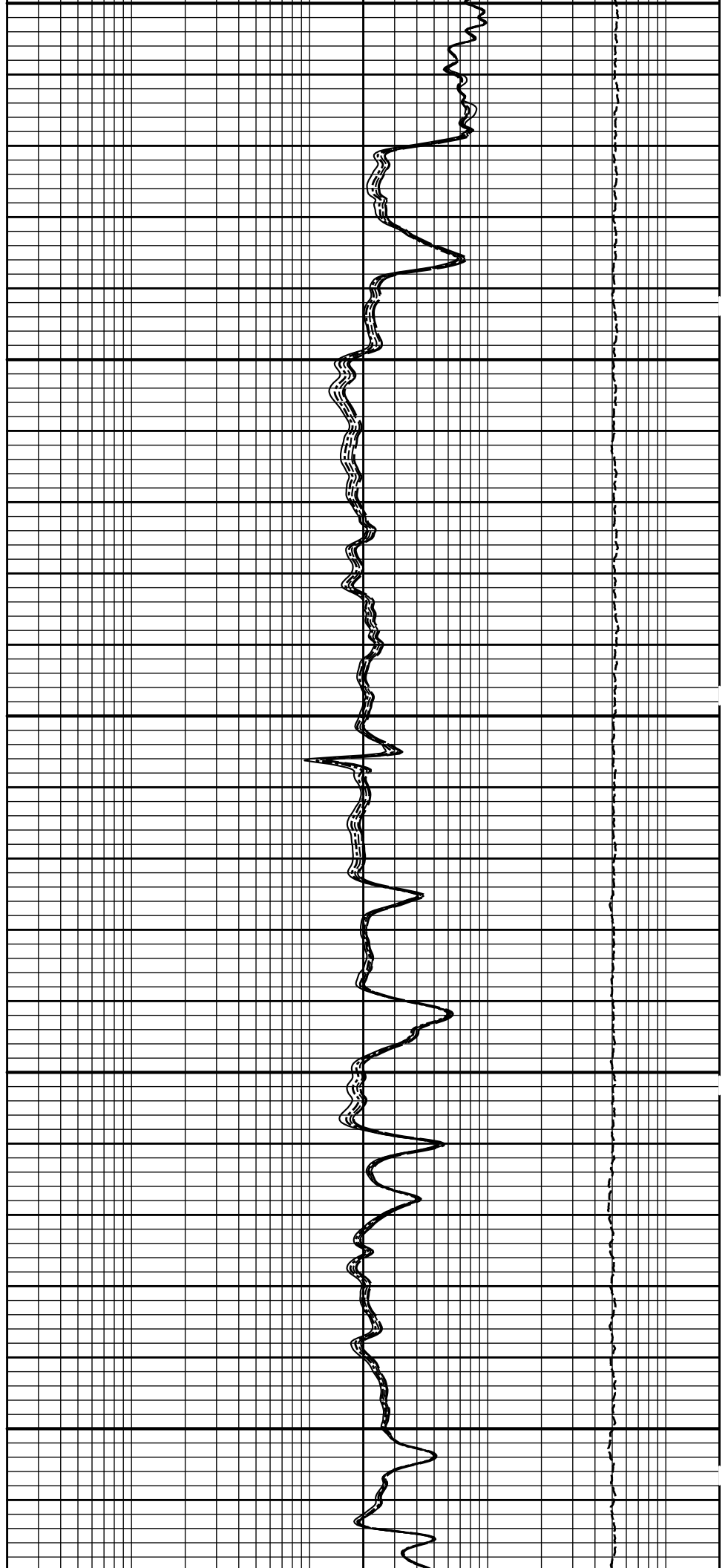




2700

2800

2900



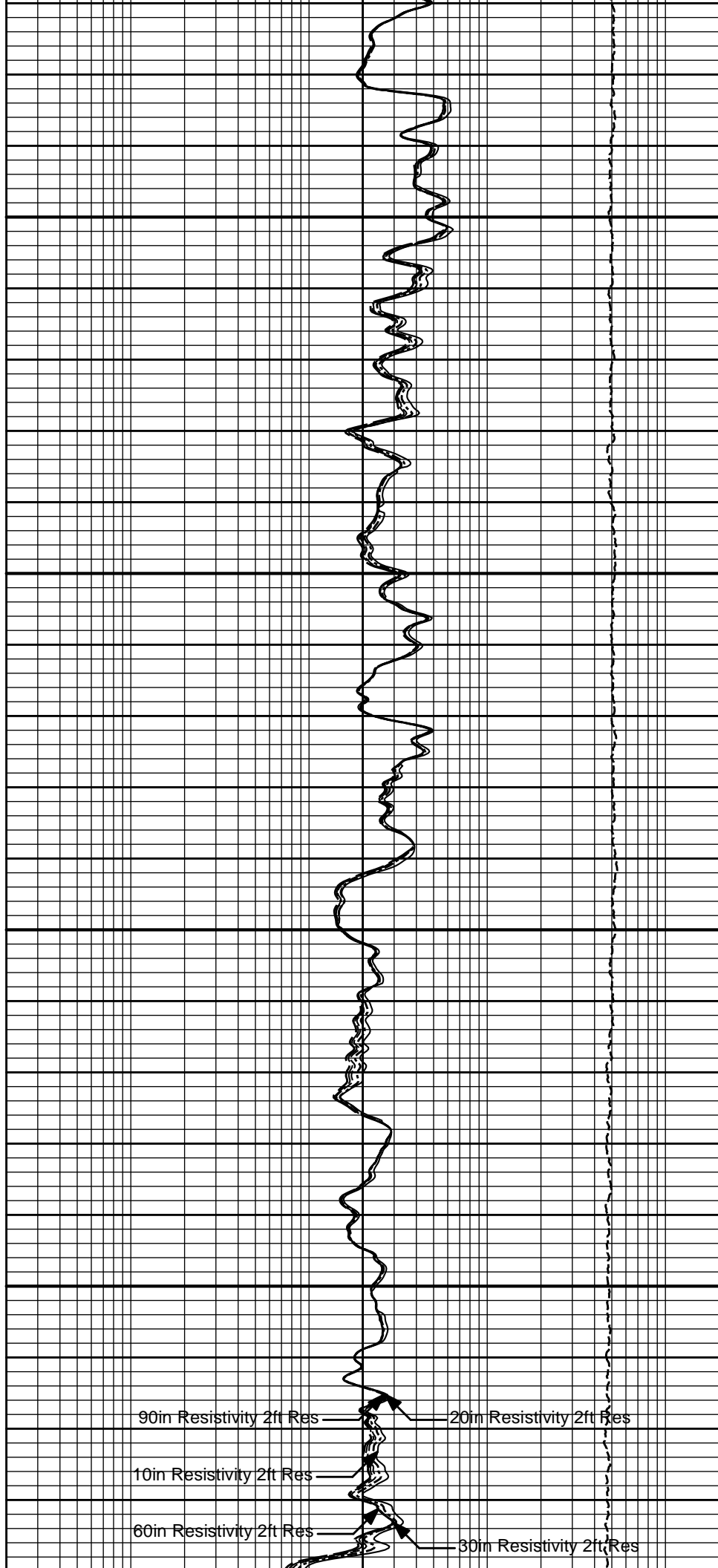


3000

3100

SP

Gamma API



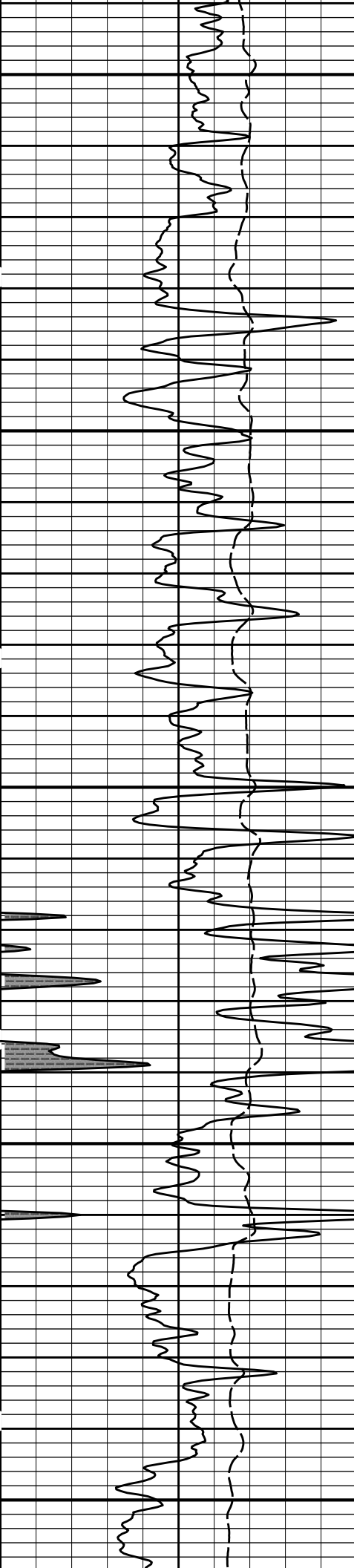
90in Resistivity 2ft Res

10in Resistivity 2ft Res

60in Resistivity 2ft Res

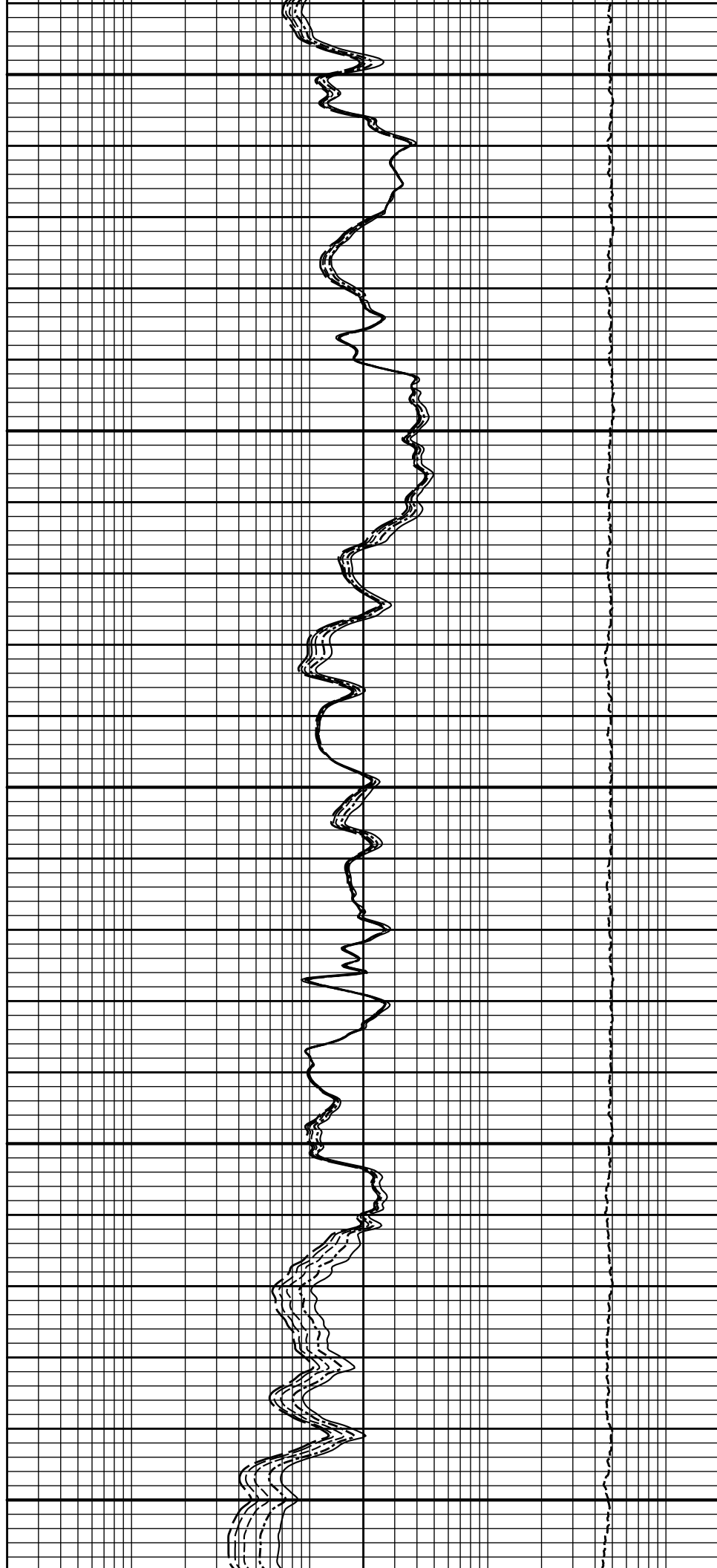
20in Resistivity 2ft Res

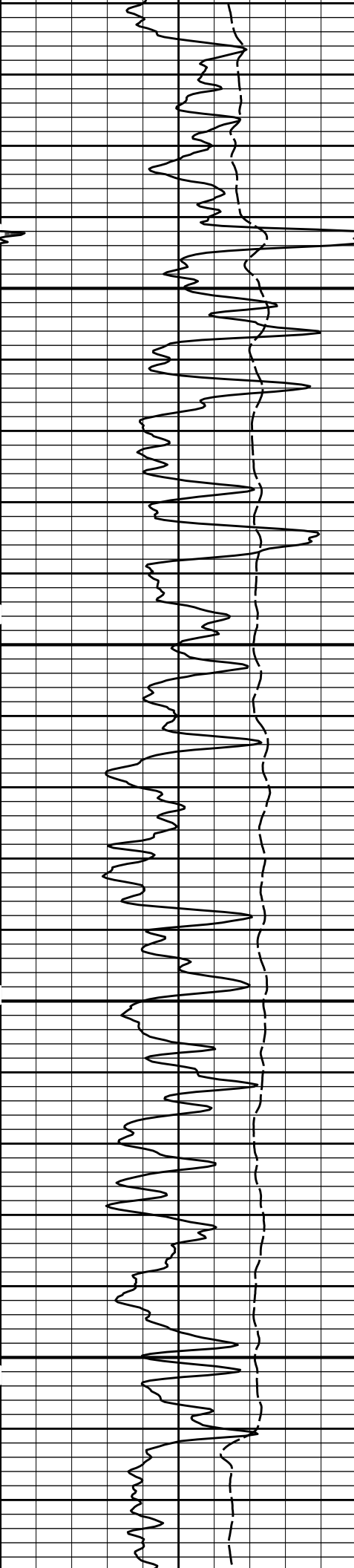
30in Resistivity 2ft Res



3200

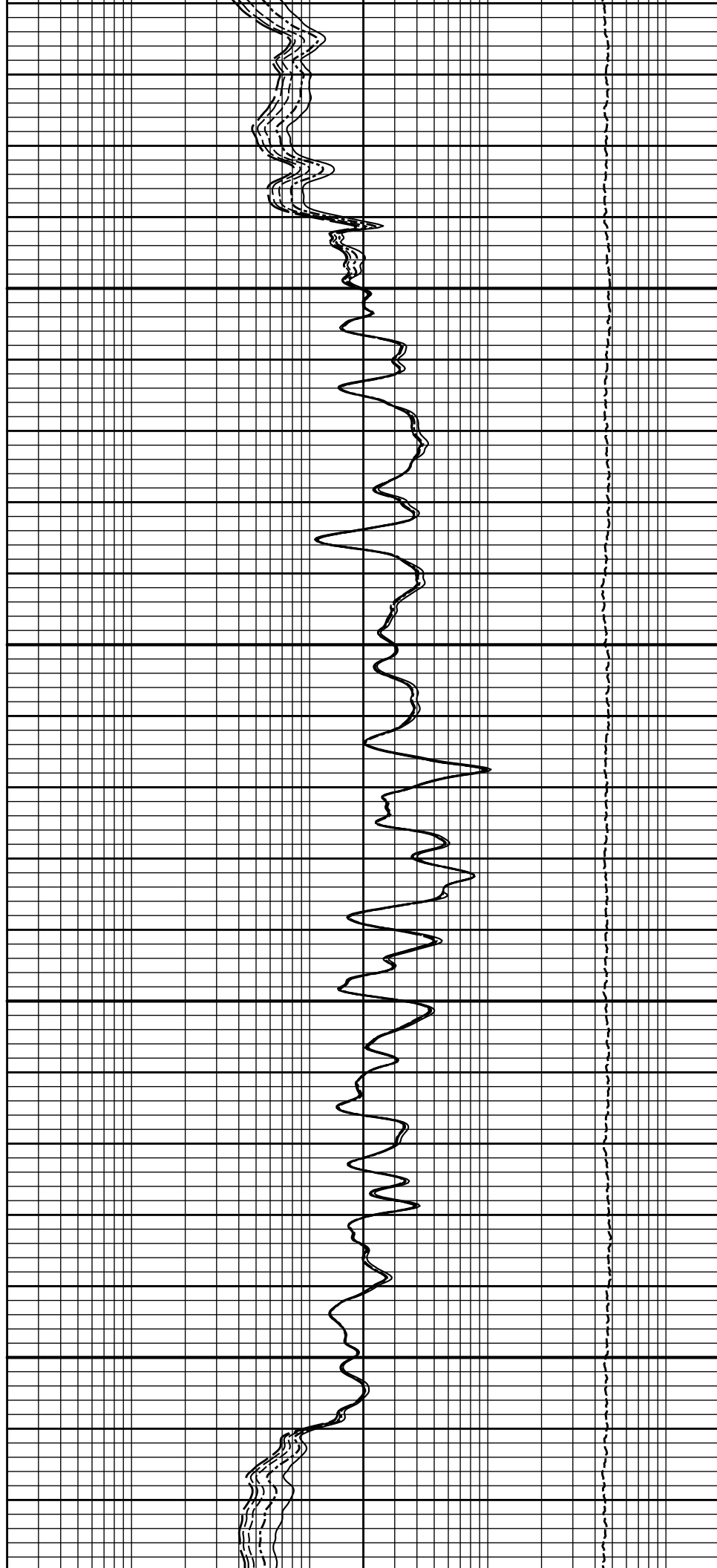
3300

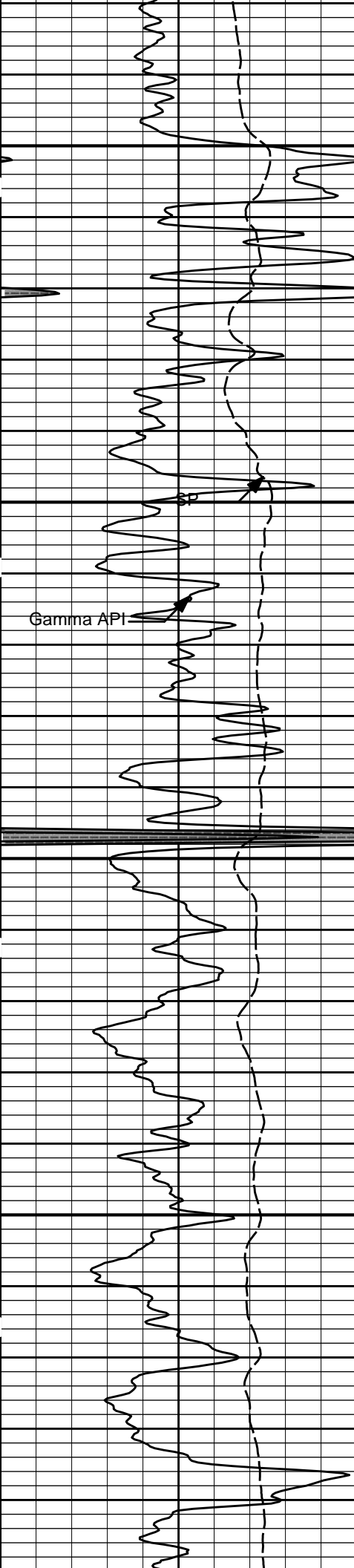




3400

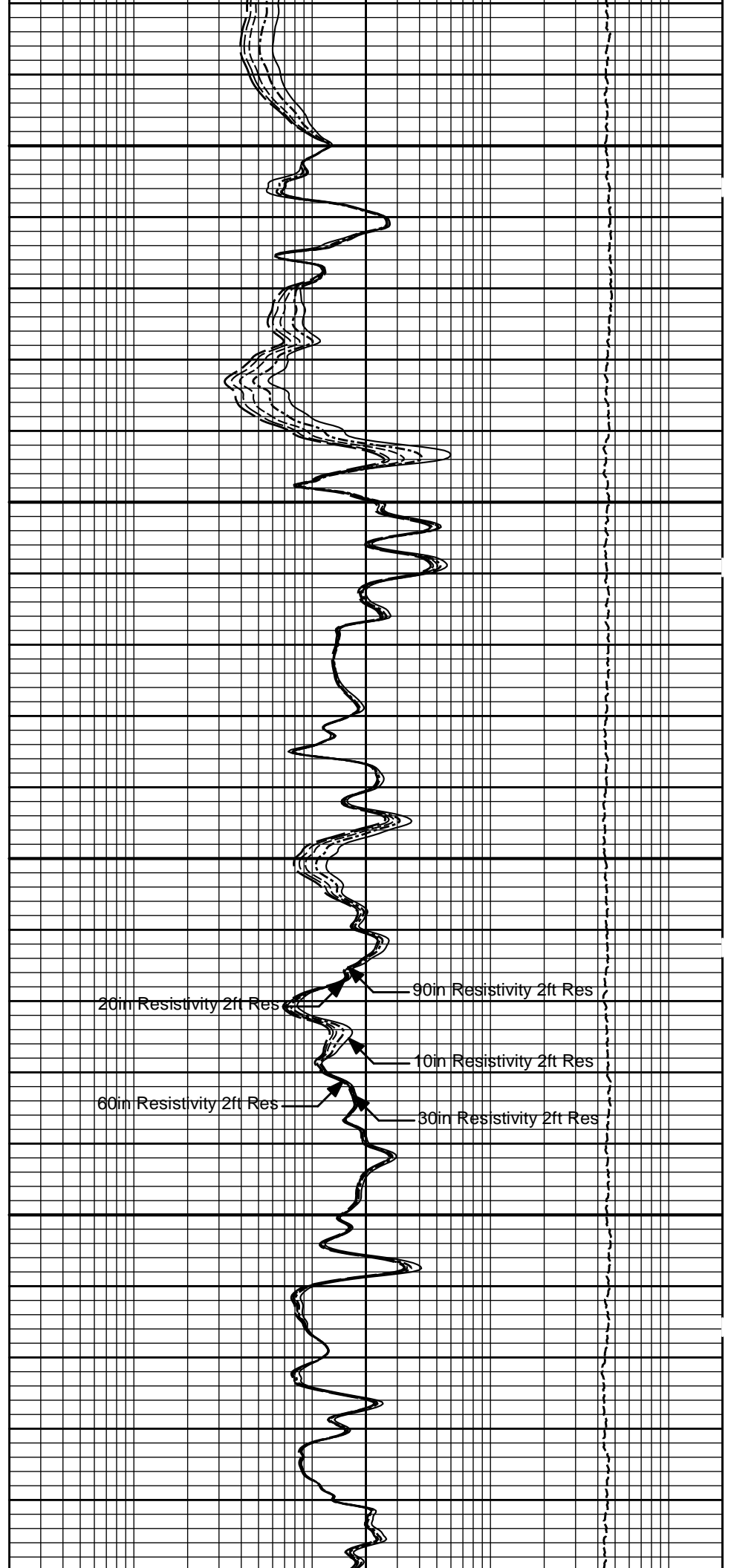
3500



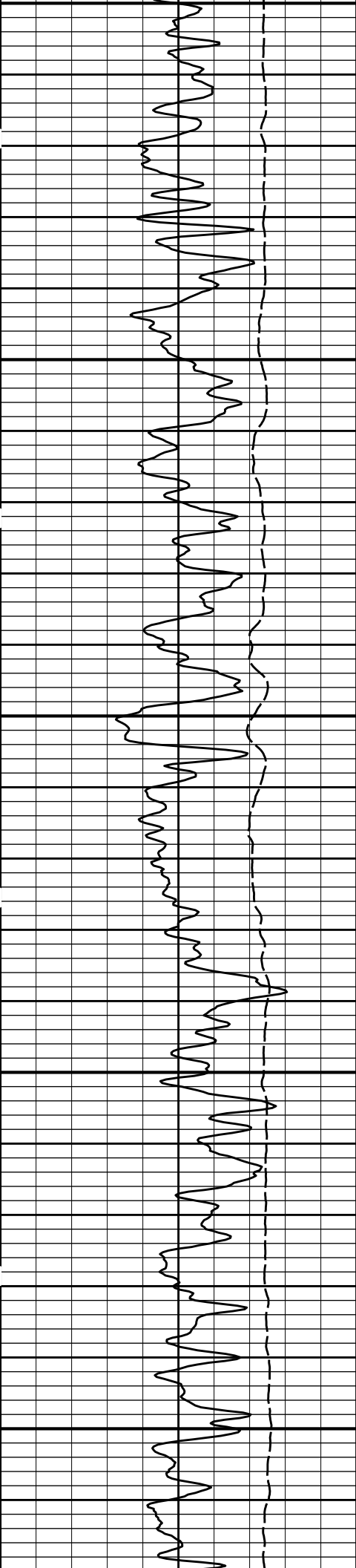


3600

3700



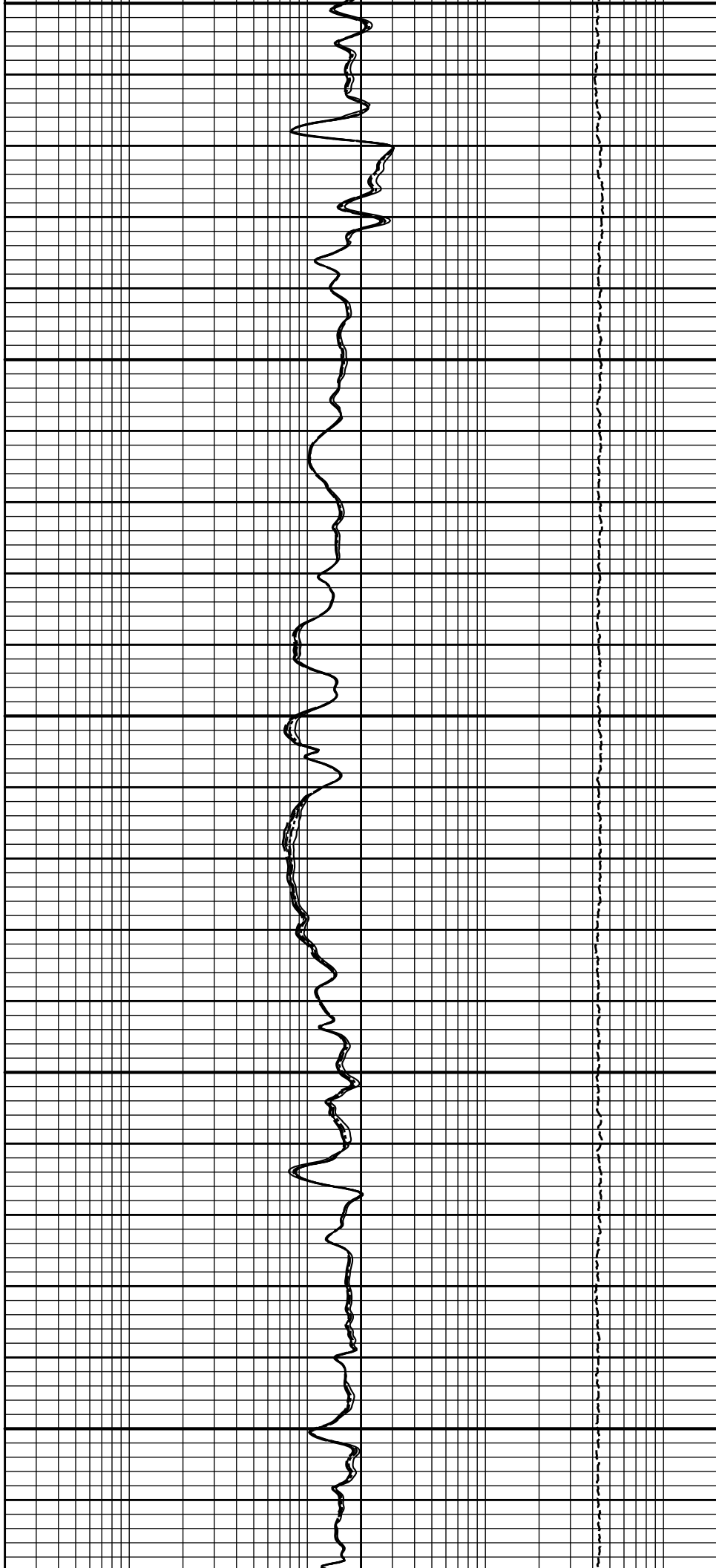
3800

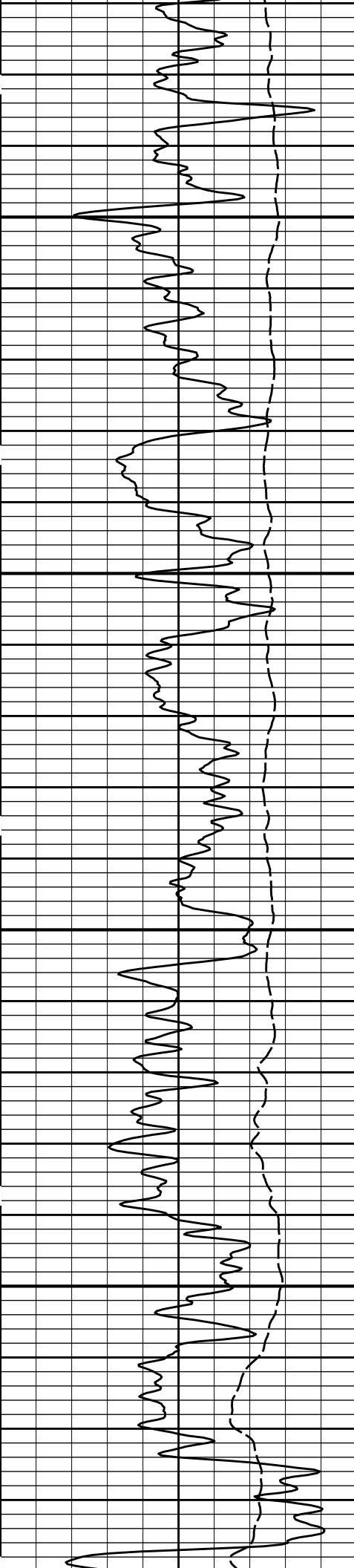


3800

3900

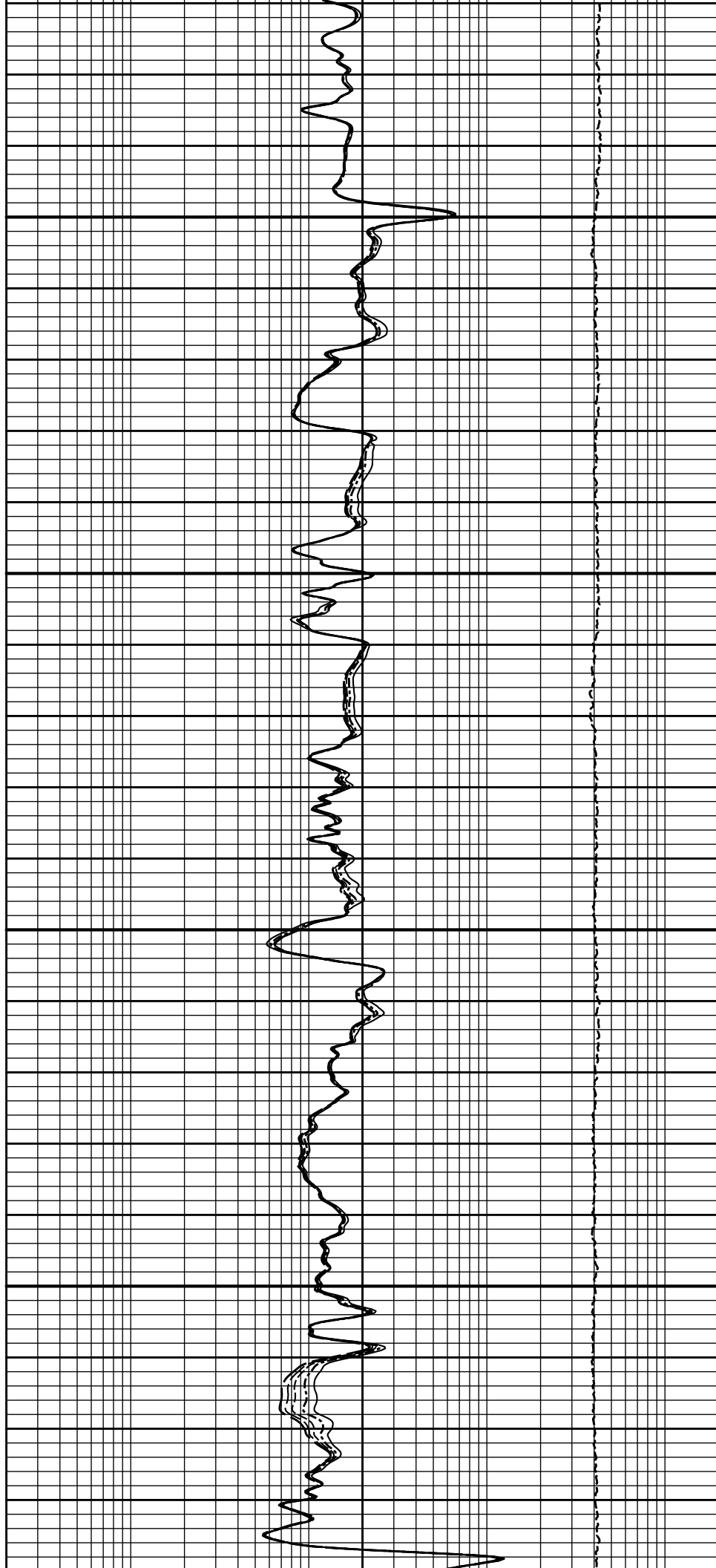
4000

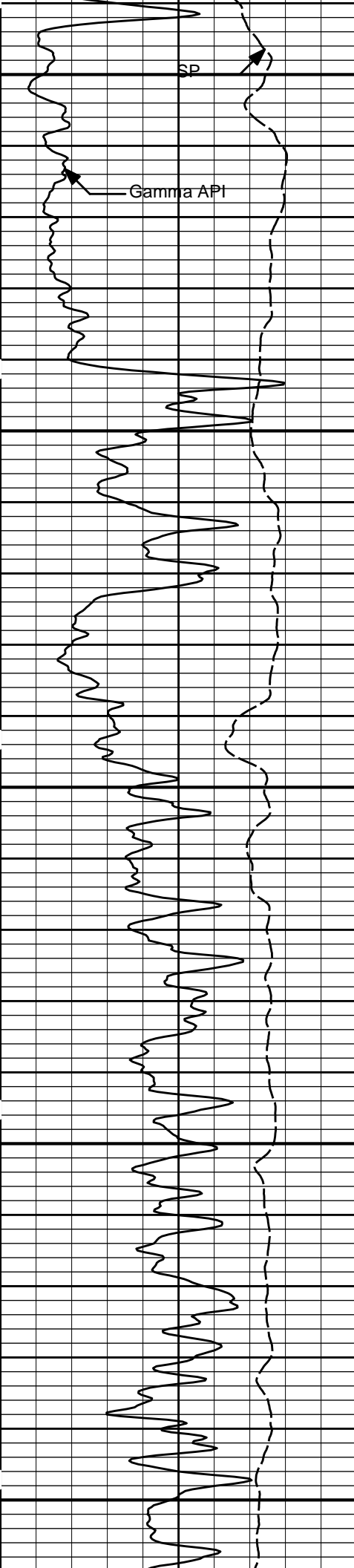




4100

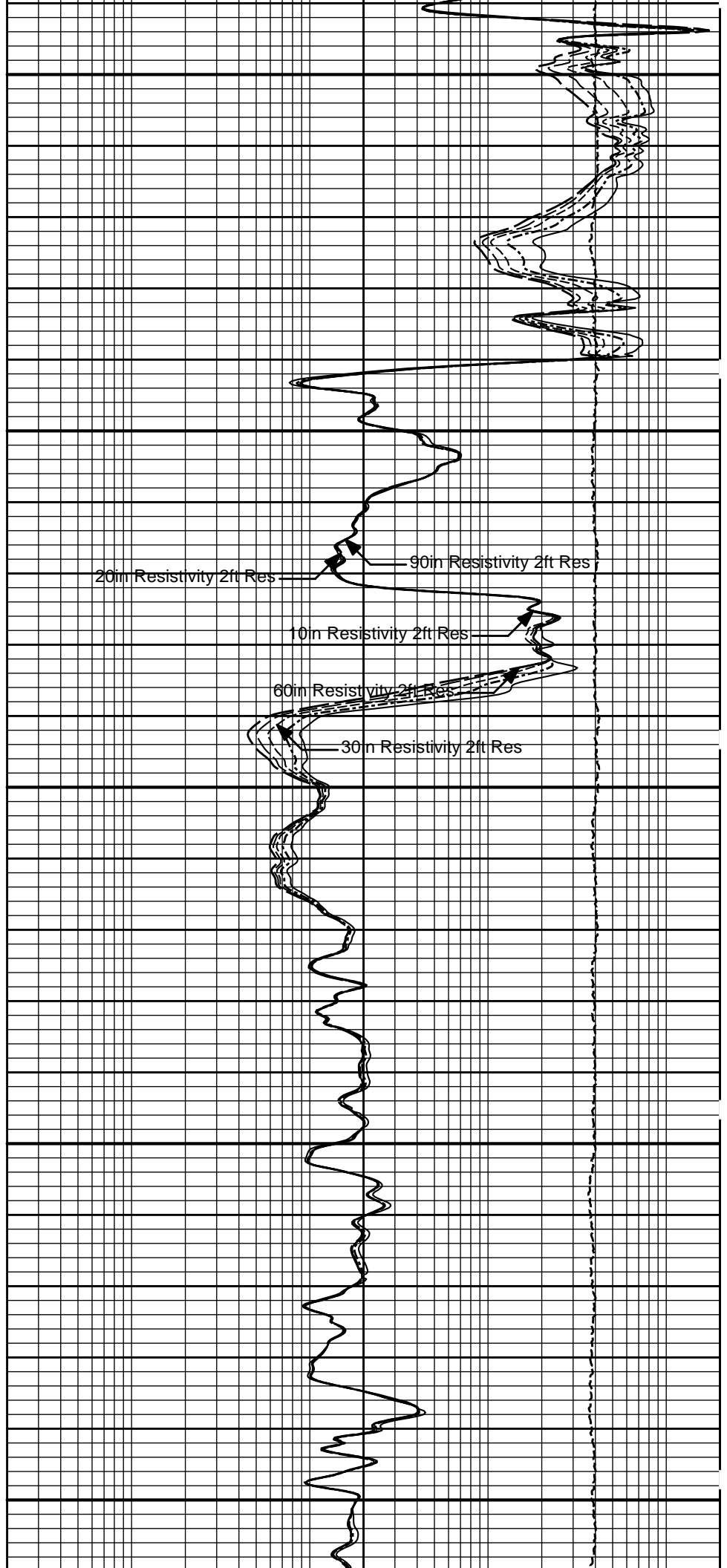
4200





4300

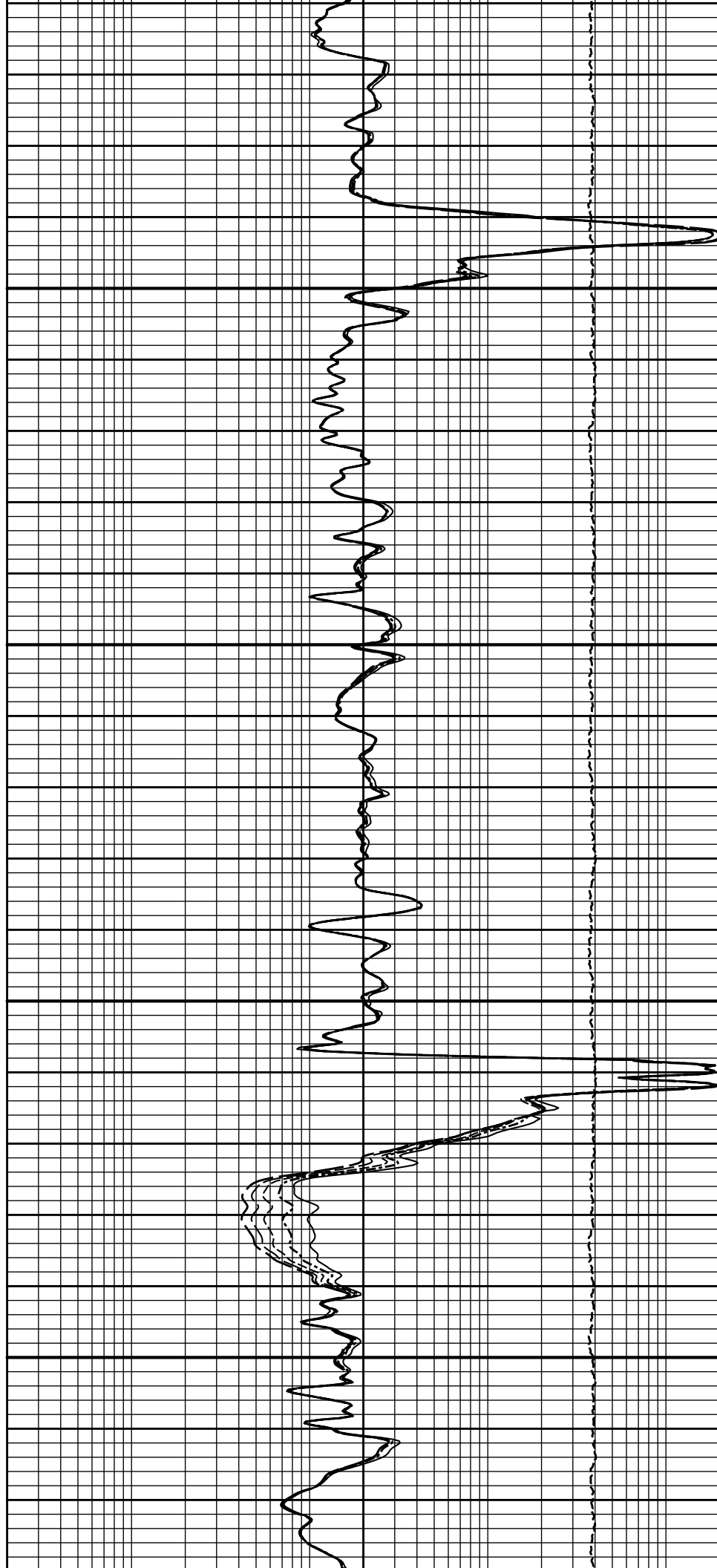
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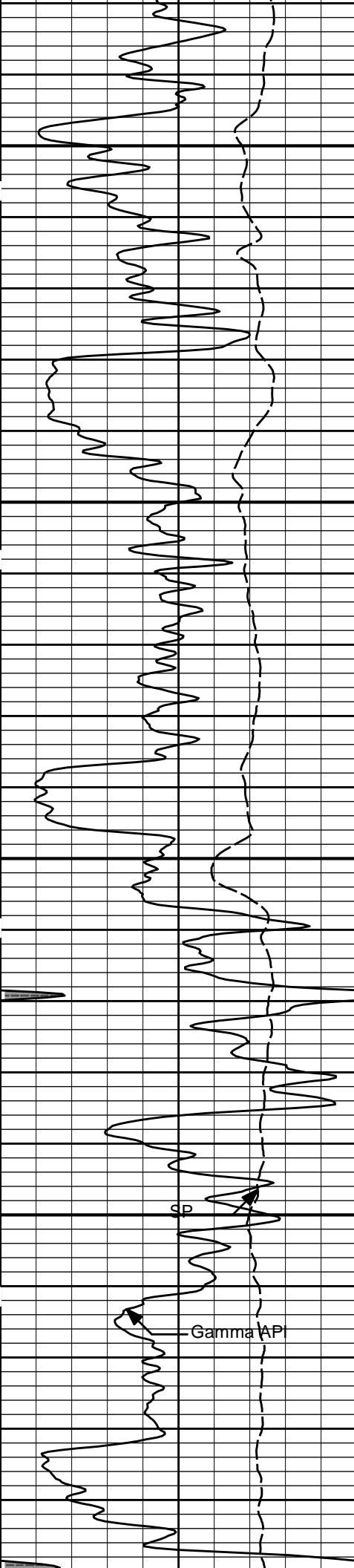




4500

4600





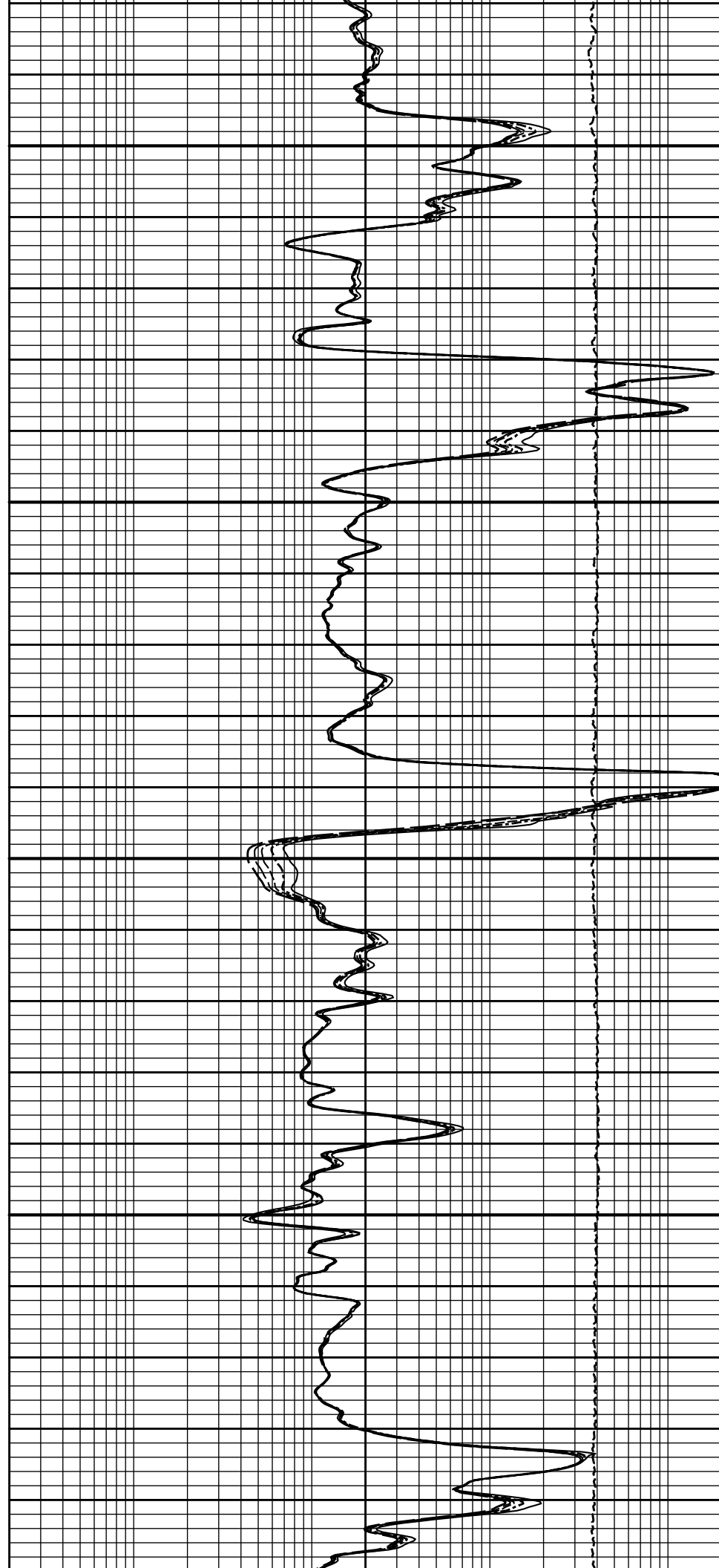
4700

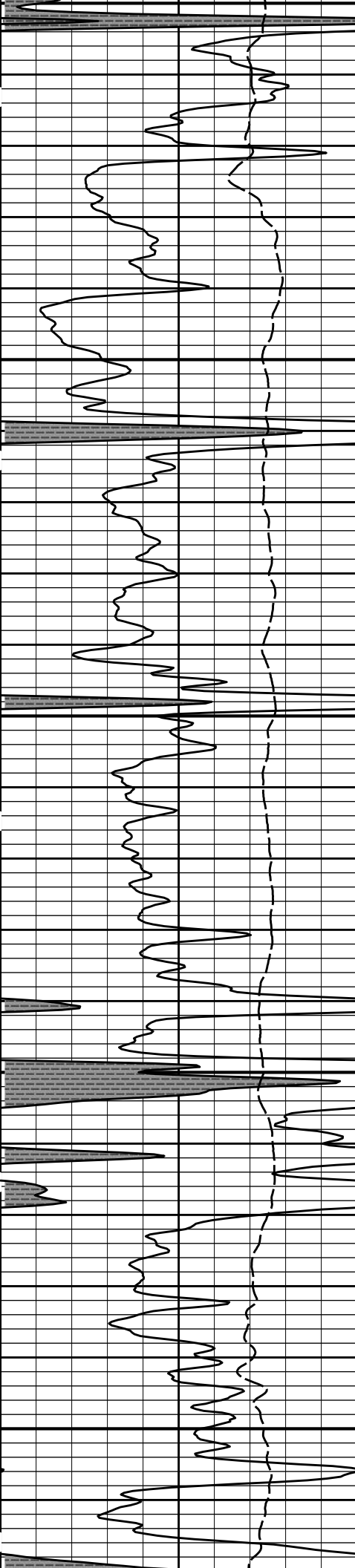
4800

4900

Gamma API

ρ

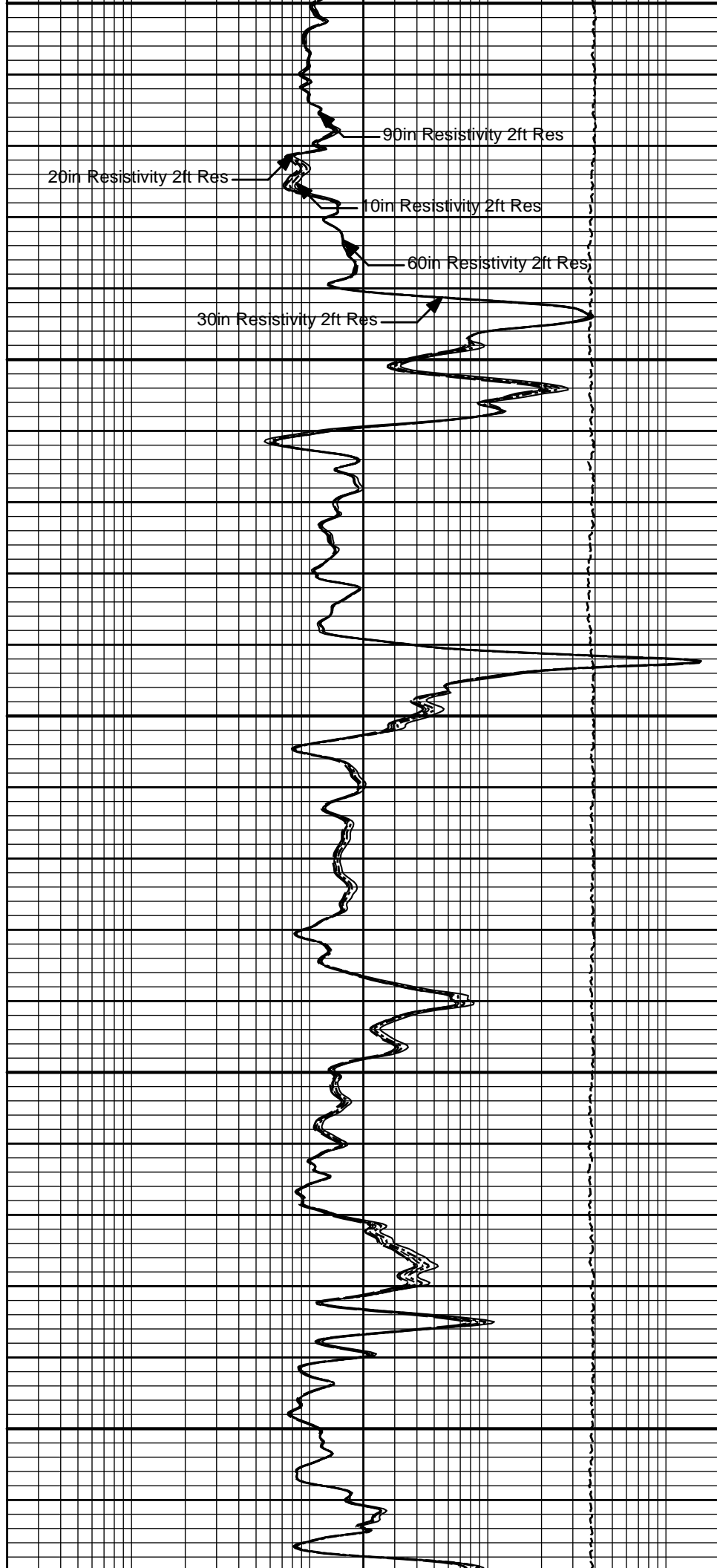


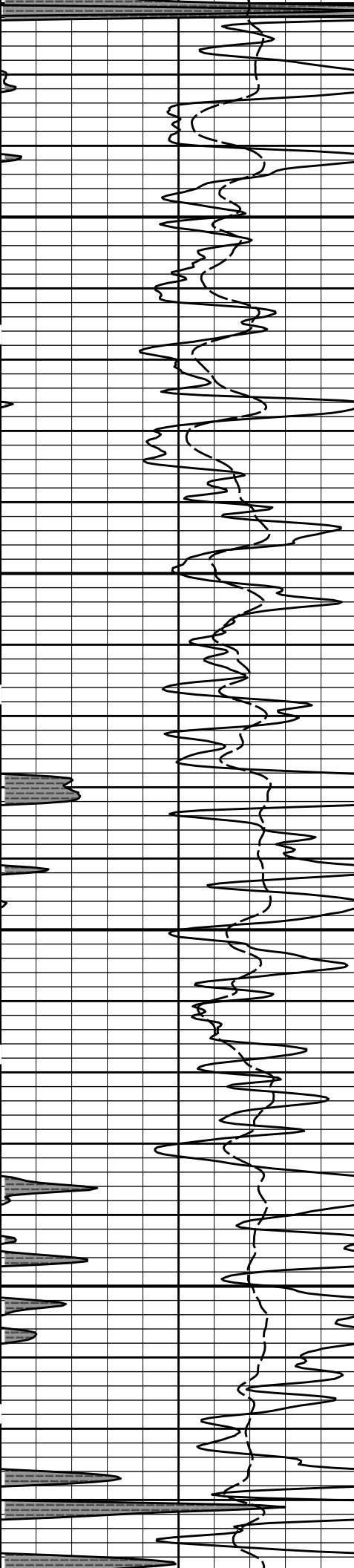


4900

5000

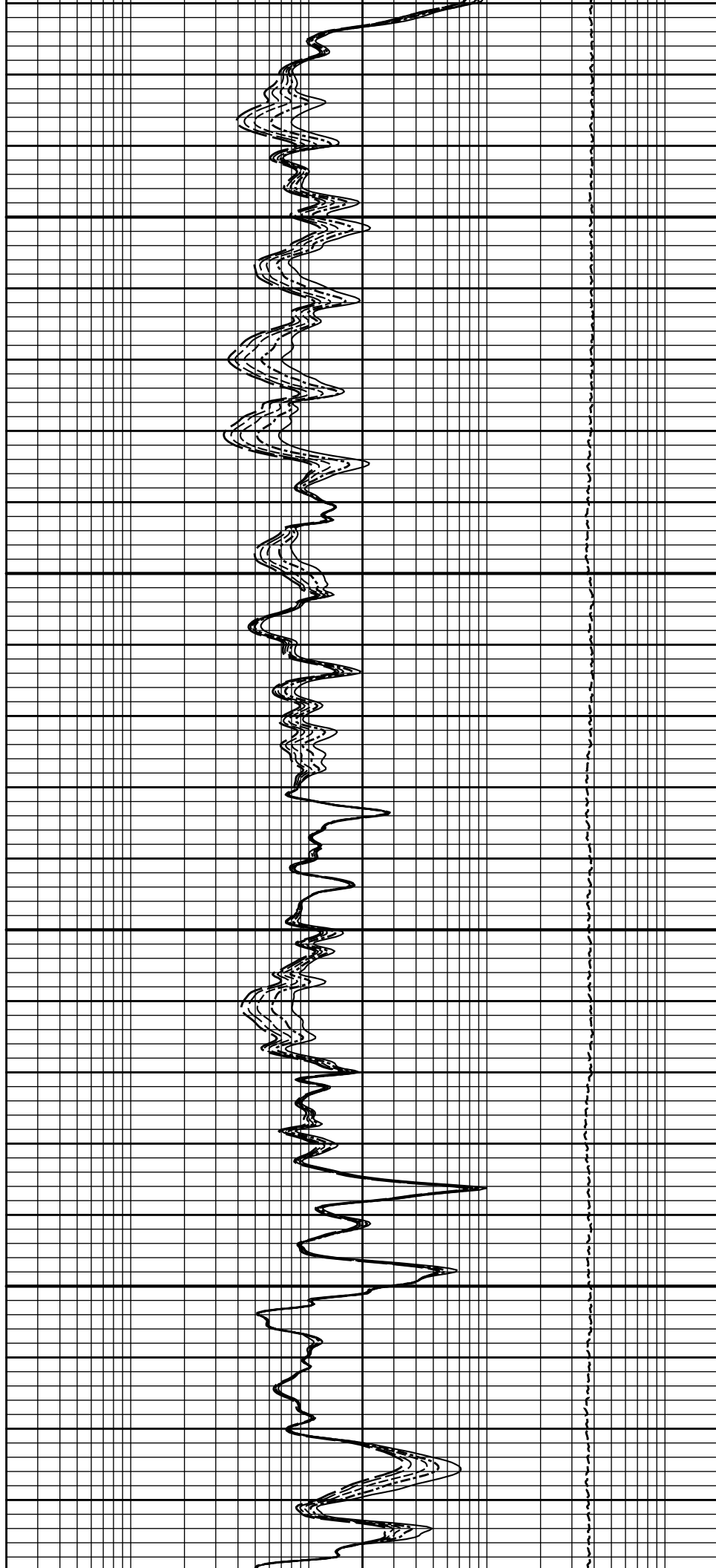
5100

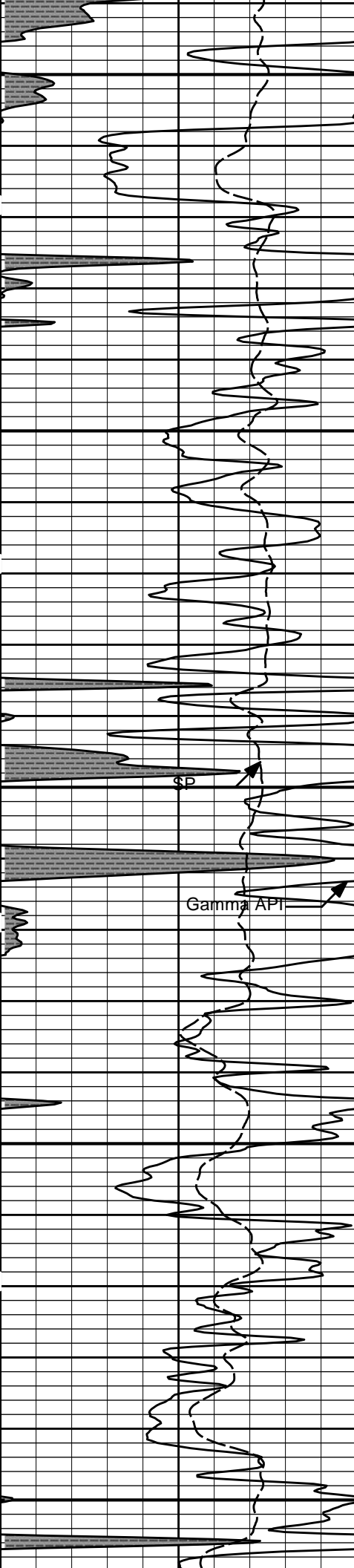




5200

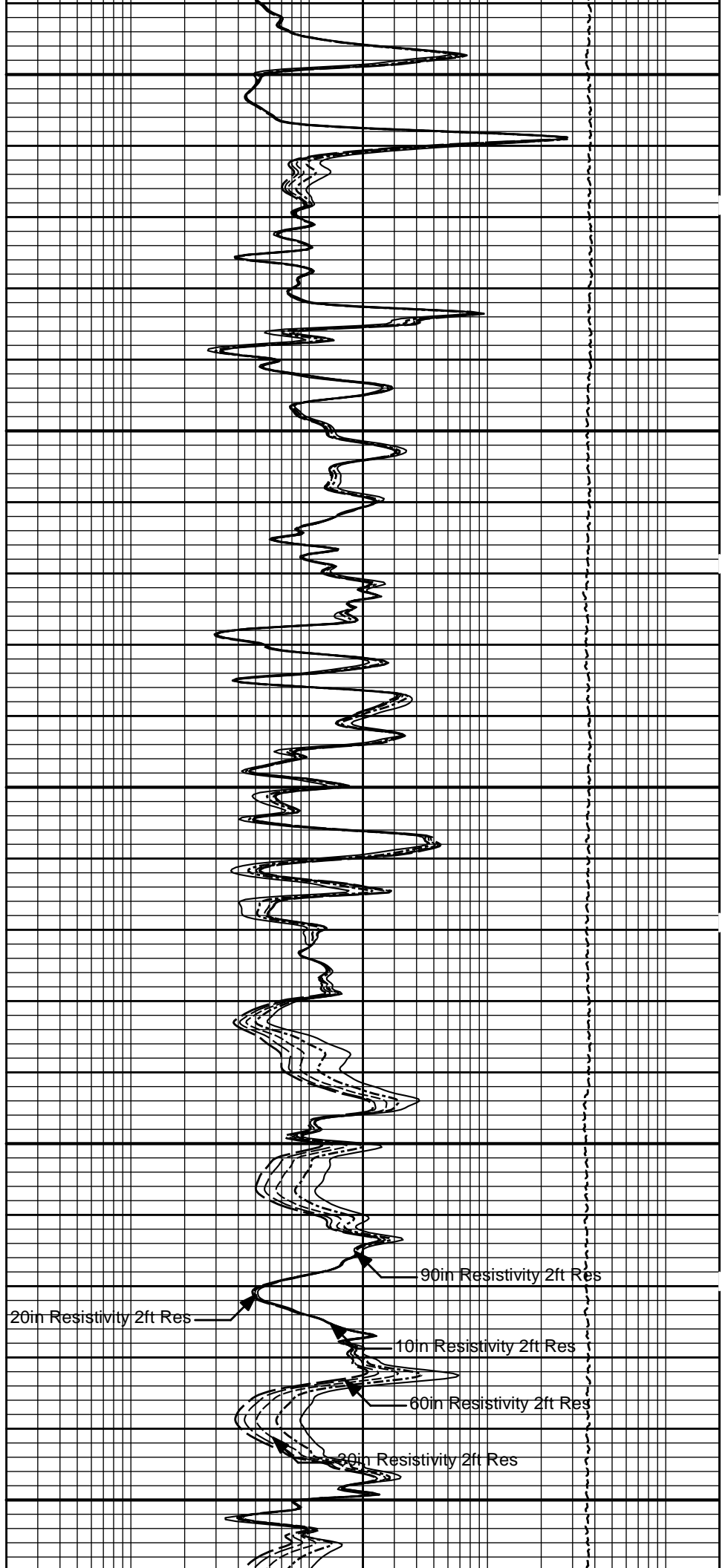
5300





5400

5500



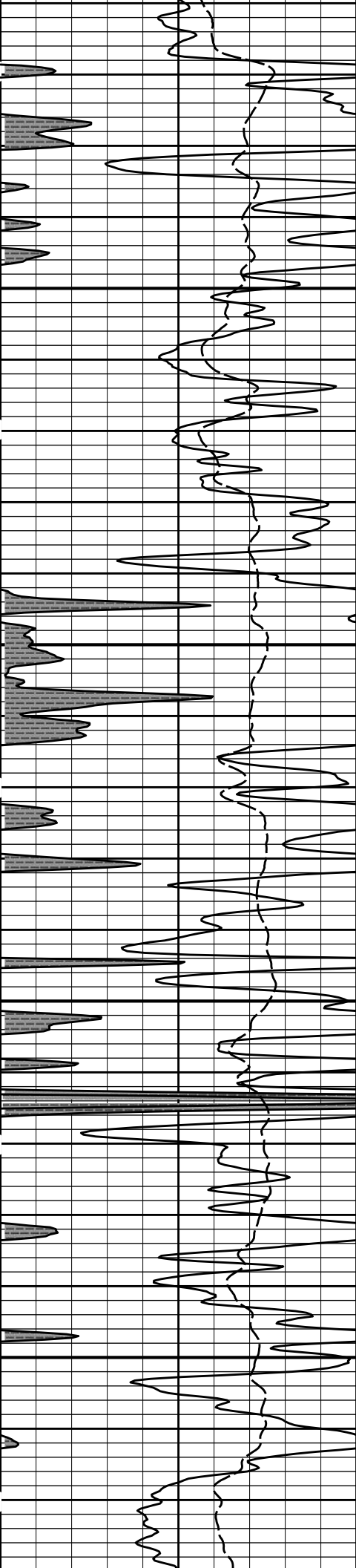
20in Resistivity 2ft Res

90in Resistivity 2ft Res

10in Resistivity 2ft Res

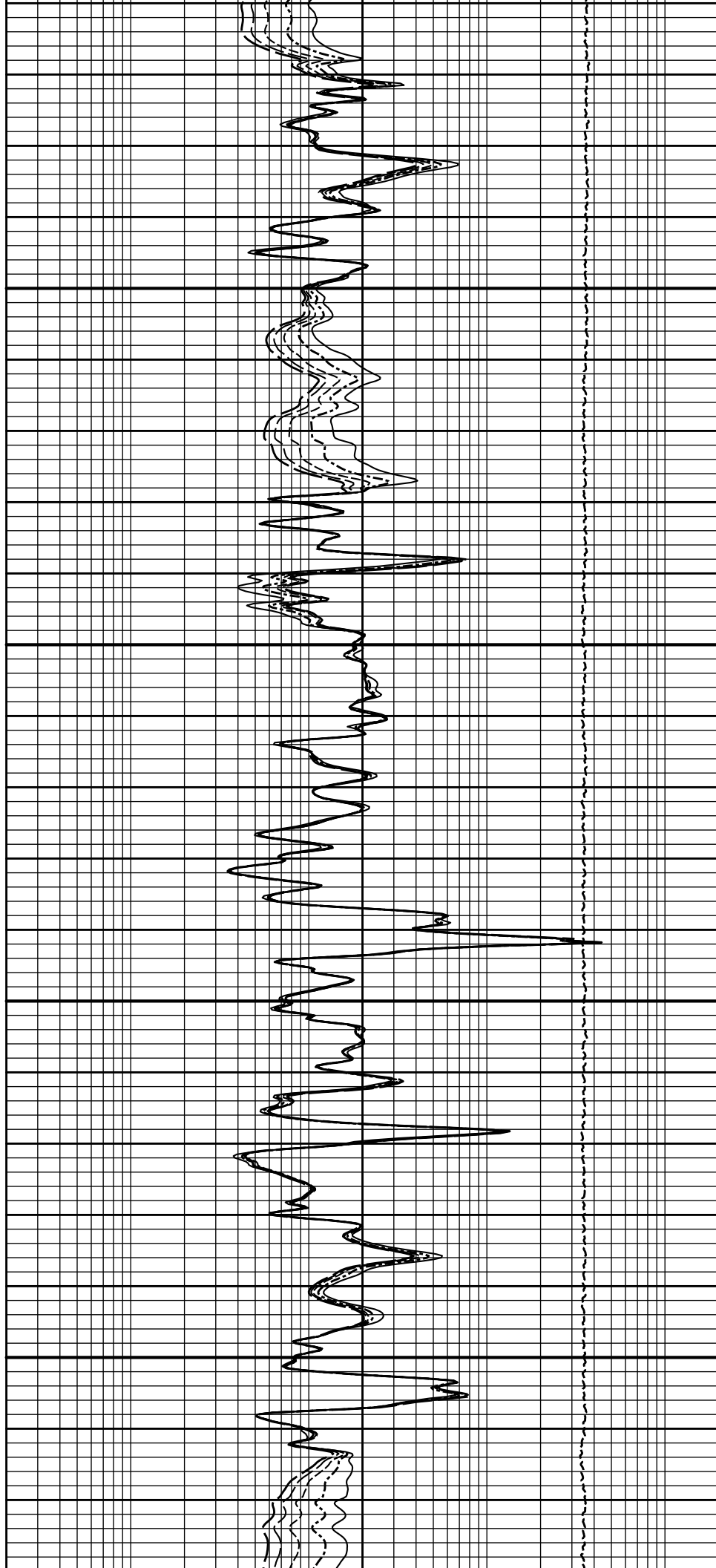
60in Resistivity 2ft Res

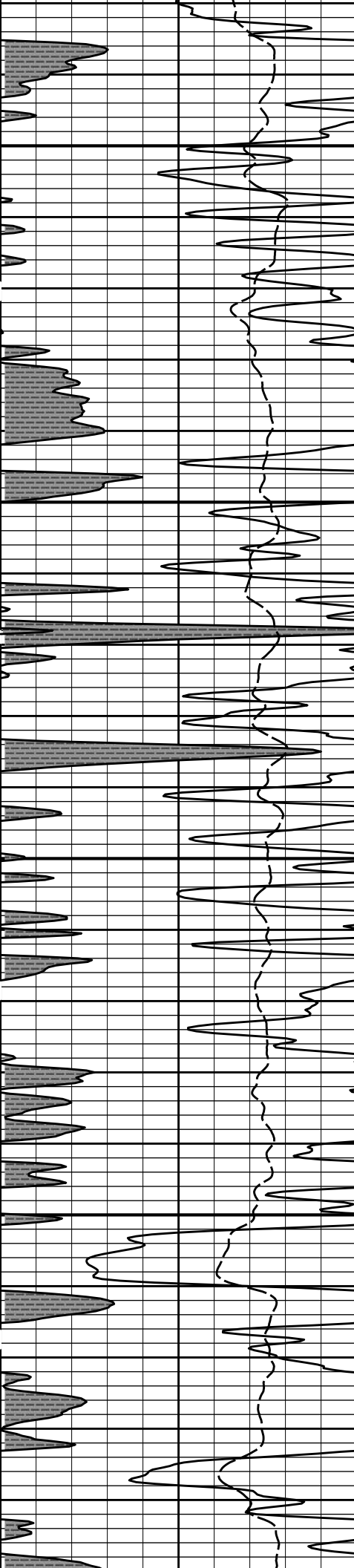
30in Resistivity 2ft Res



5600

5700

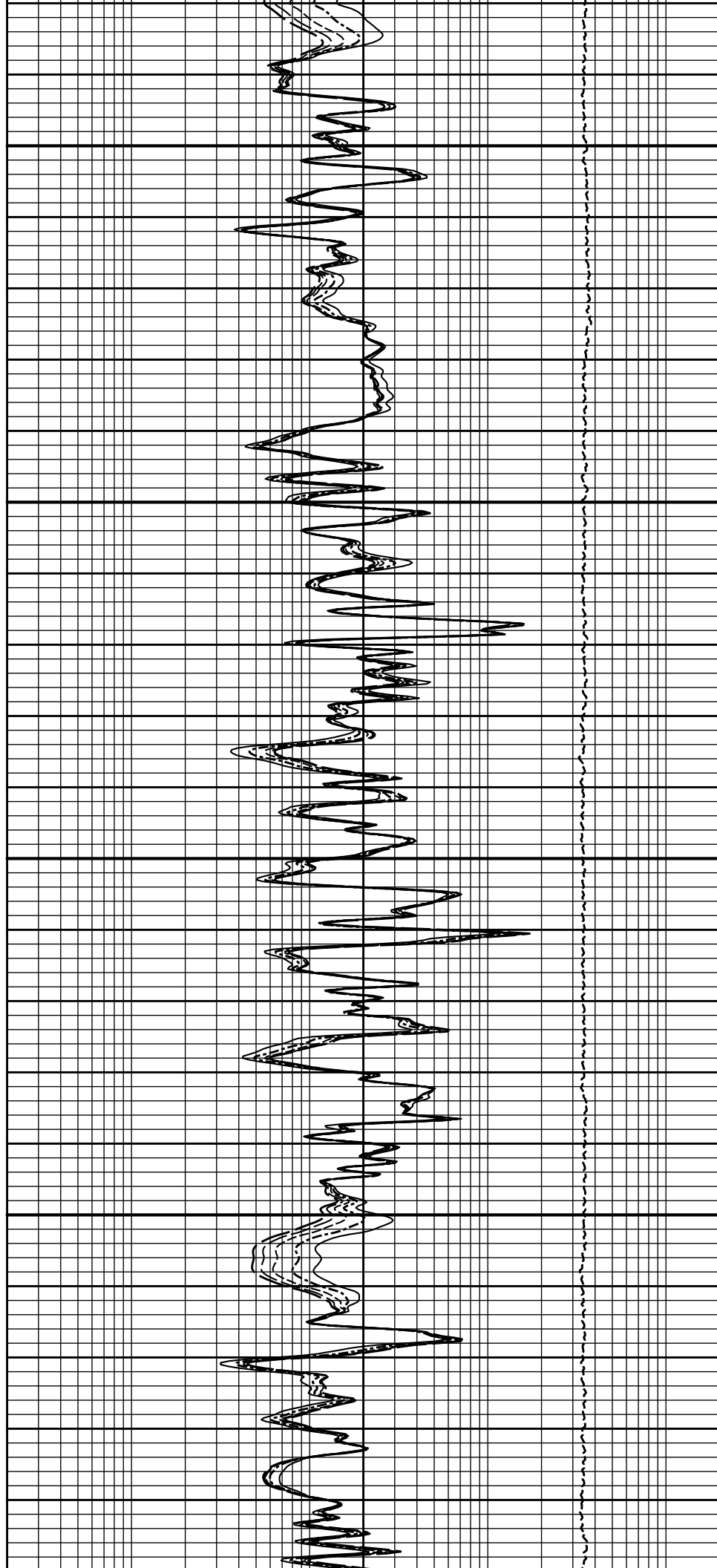


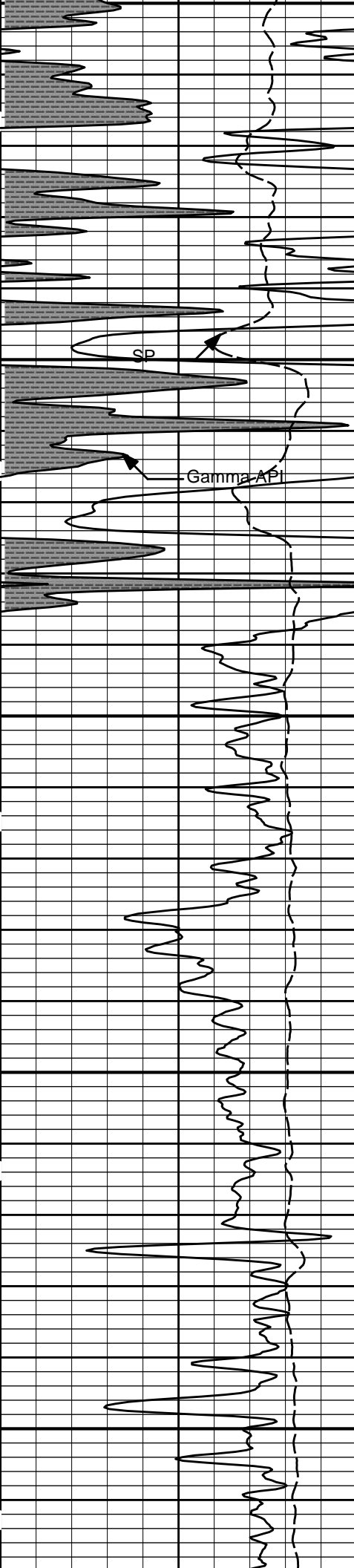


5800

5900

6000

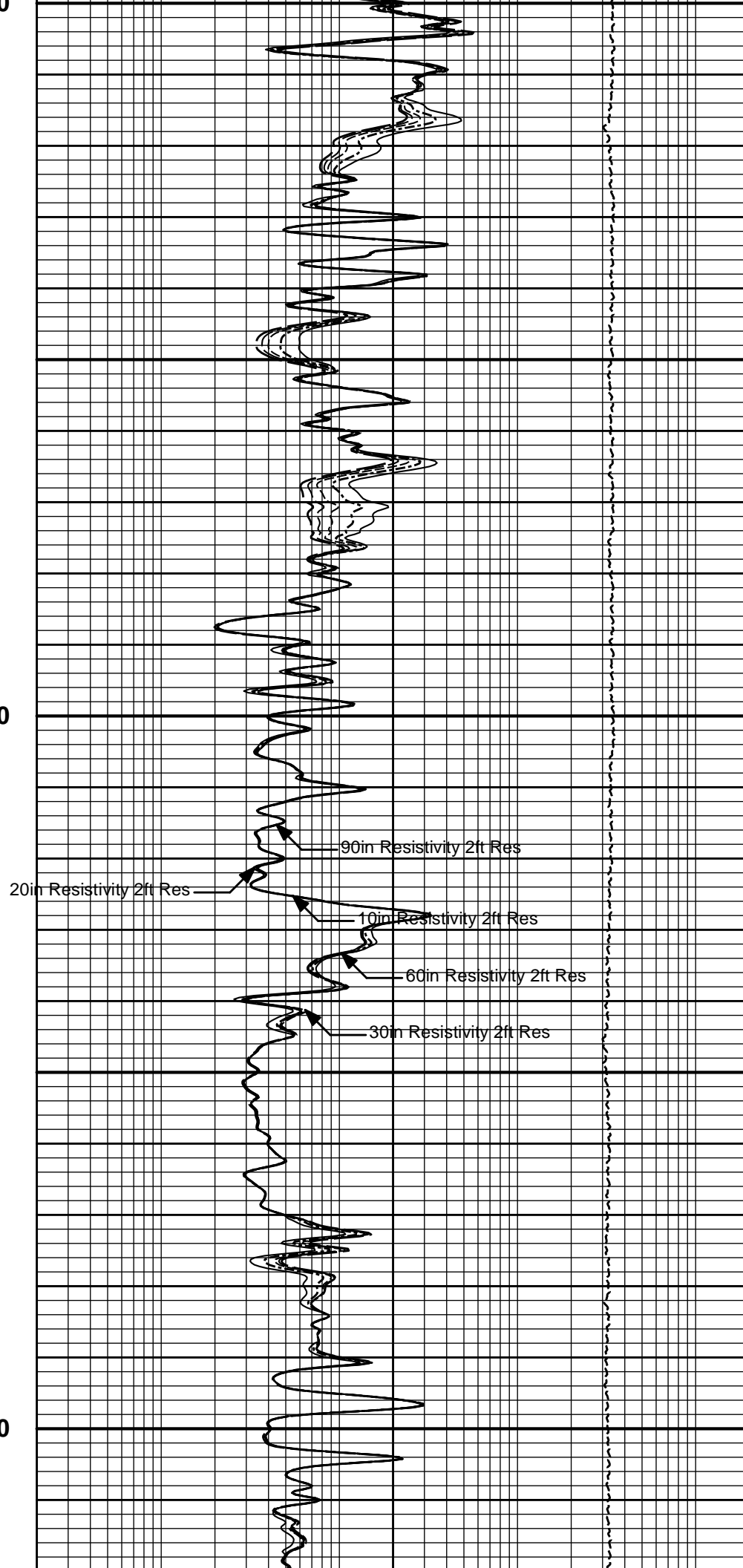




6000

6100

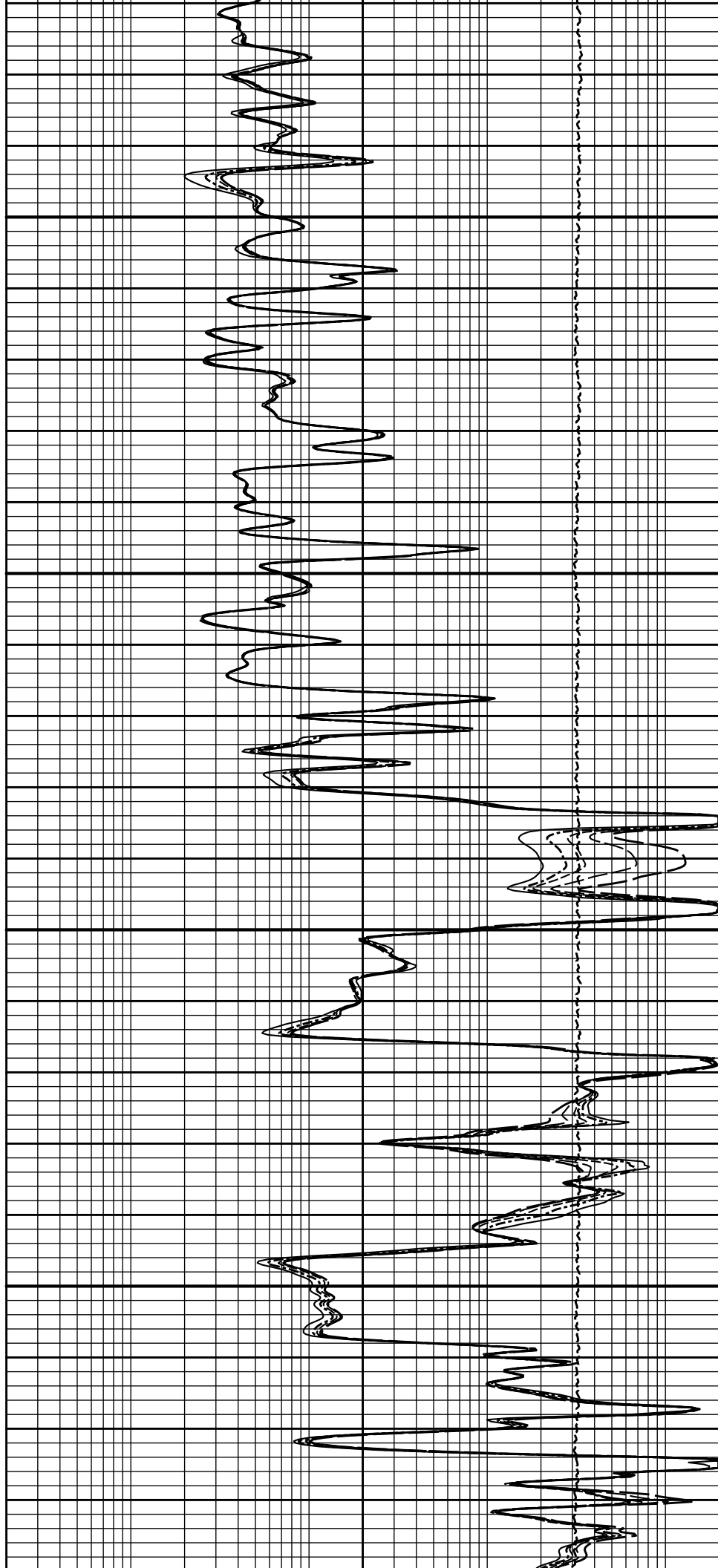
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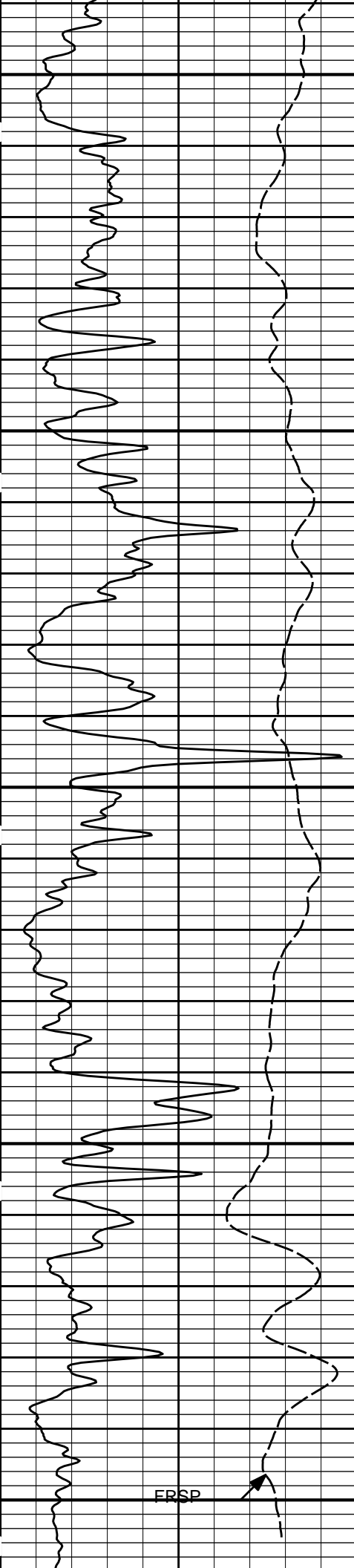




6300

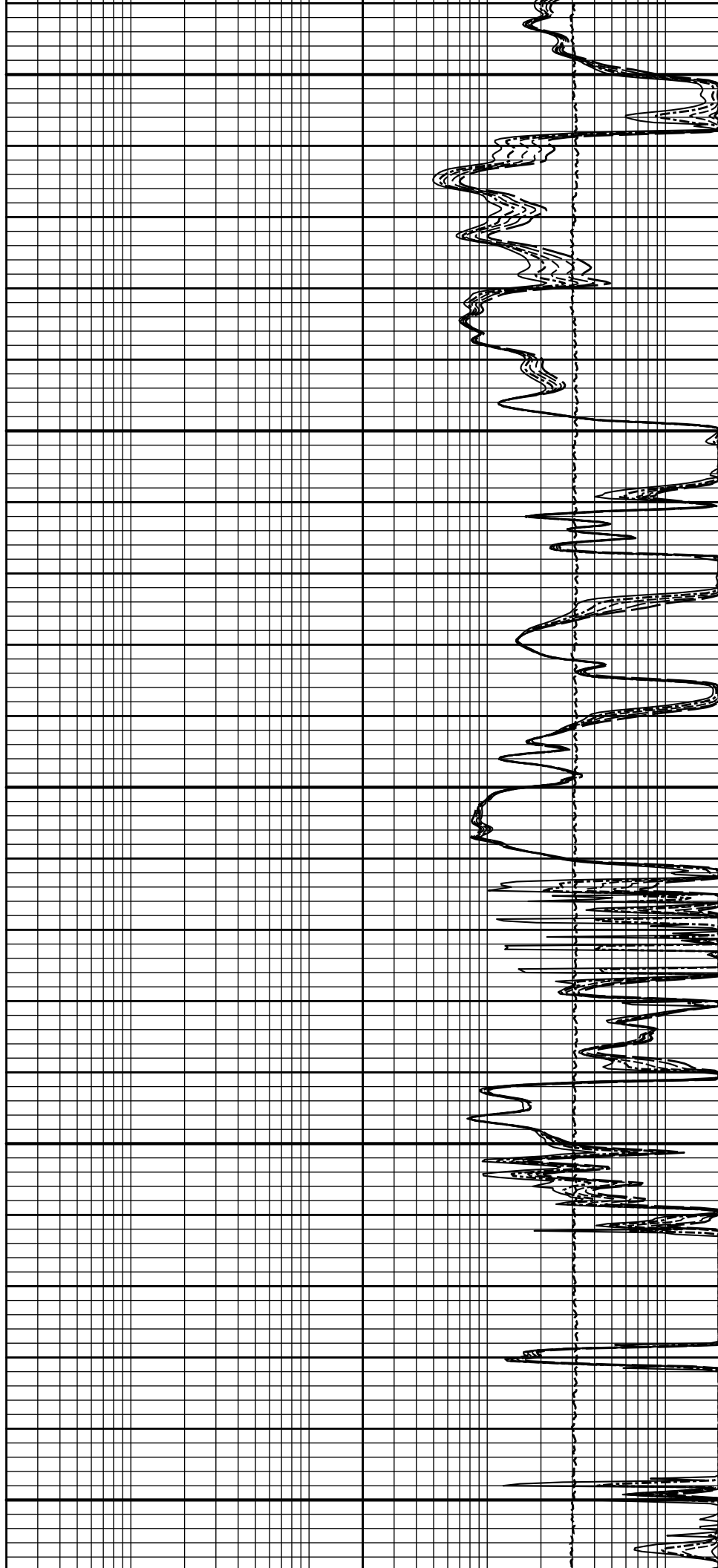
6400

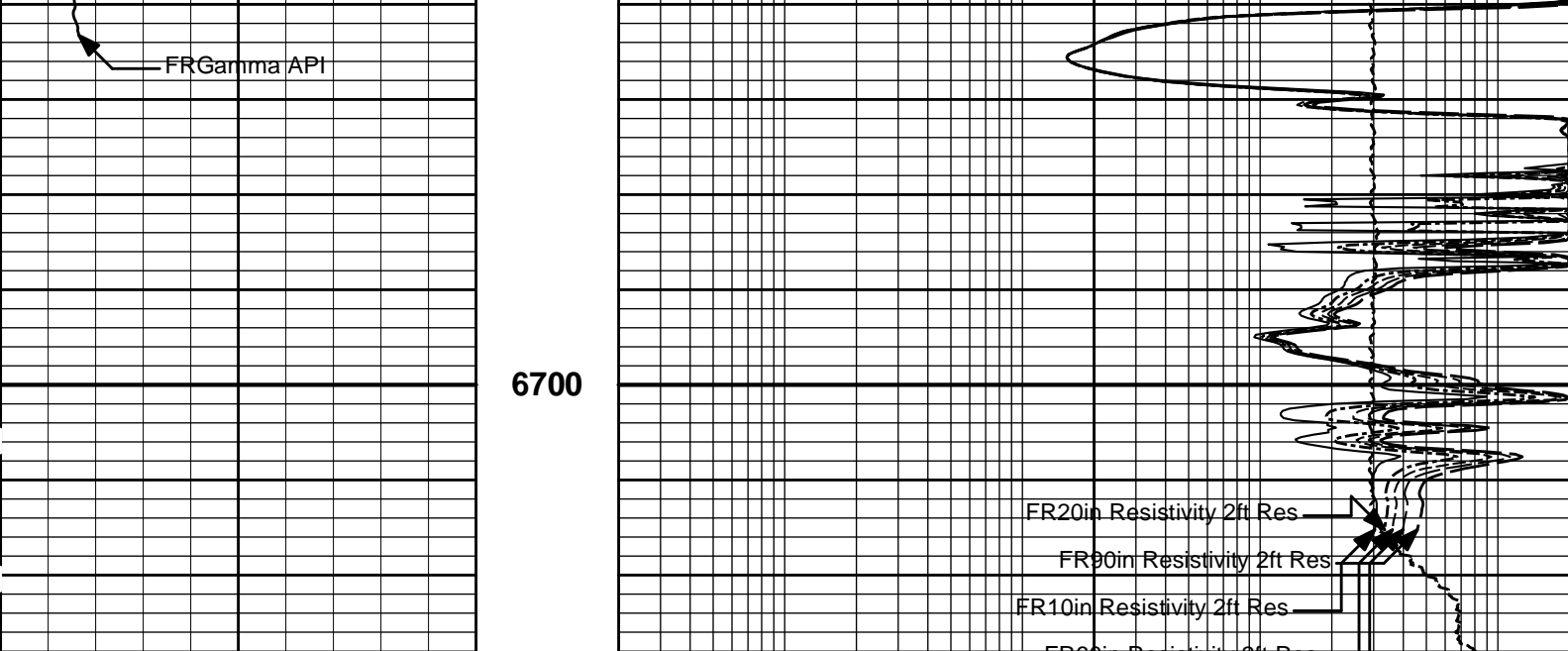




6500

6600





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

HALLIBURTON

Plot Time: 30-Nov-14 17:31:29
Plot Range: 470 ft to 6728.25 ft
Data: CHRISTINA_1-2\Well Based\MAIN\
Plot File: \\-LOCAL-CHRISTINA_1-2\Well Based\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

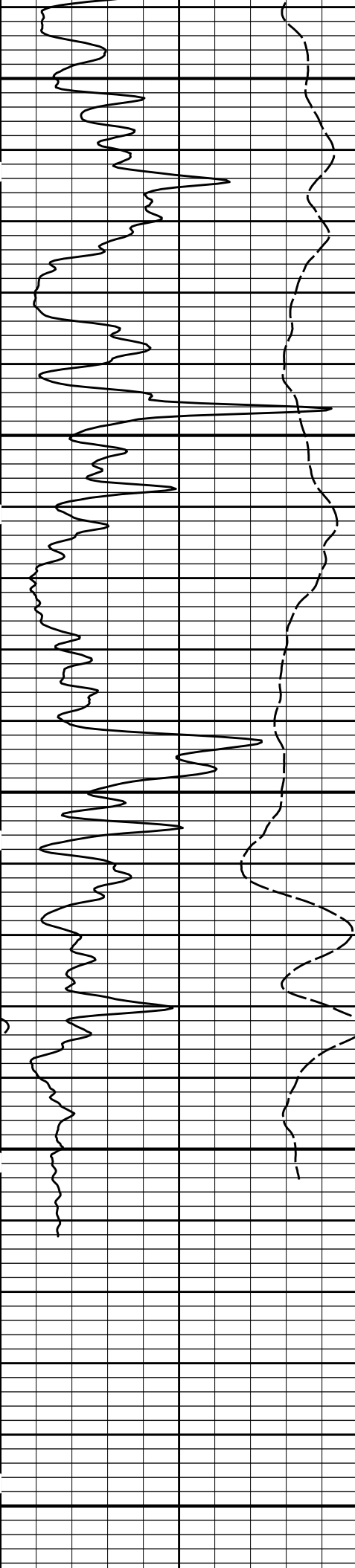
HALLIBURTON

Plot Time: 30-Nov-14 17:31:29
Plot Range: 6298 ft to 6727 ft
Data: CHRISTINA_1-2\Well Based\REPEAT\
Plot File: \\-LOCAL-CHRISTINA_1-2\Well Based\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
			ohm-metre			

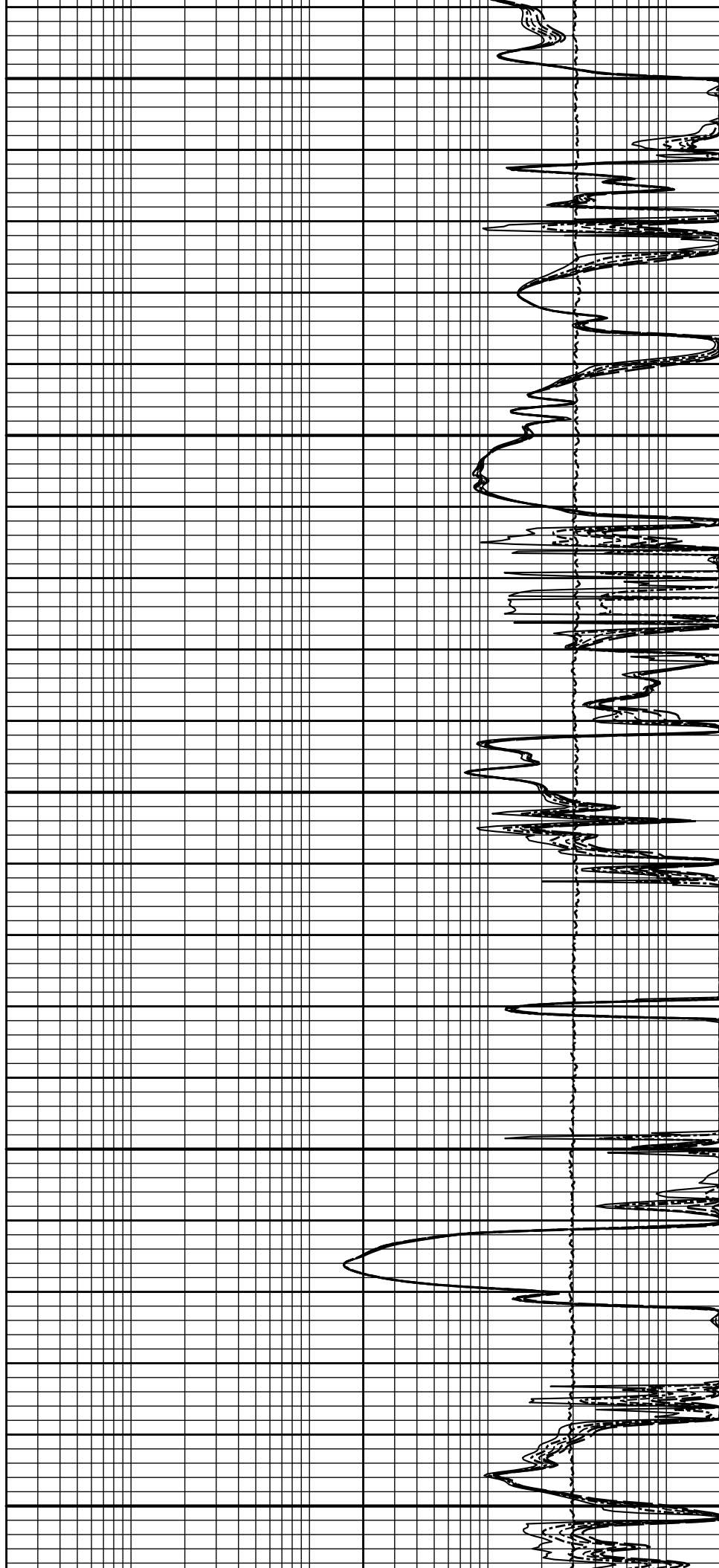
[illegible]

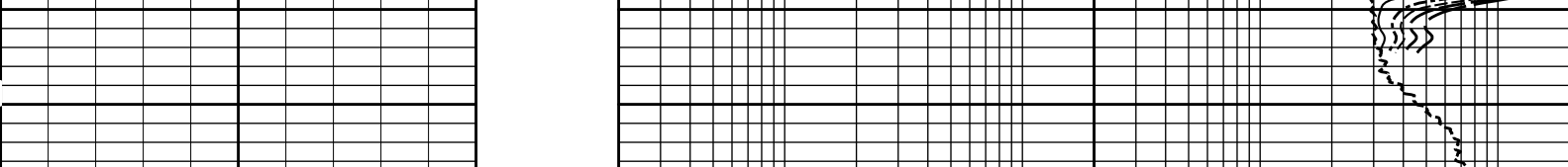


6500

6600

6700





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

HALLIBURTON

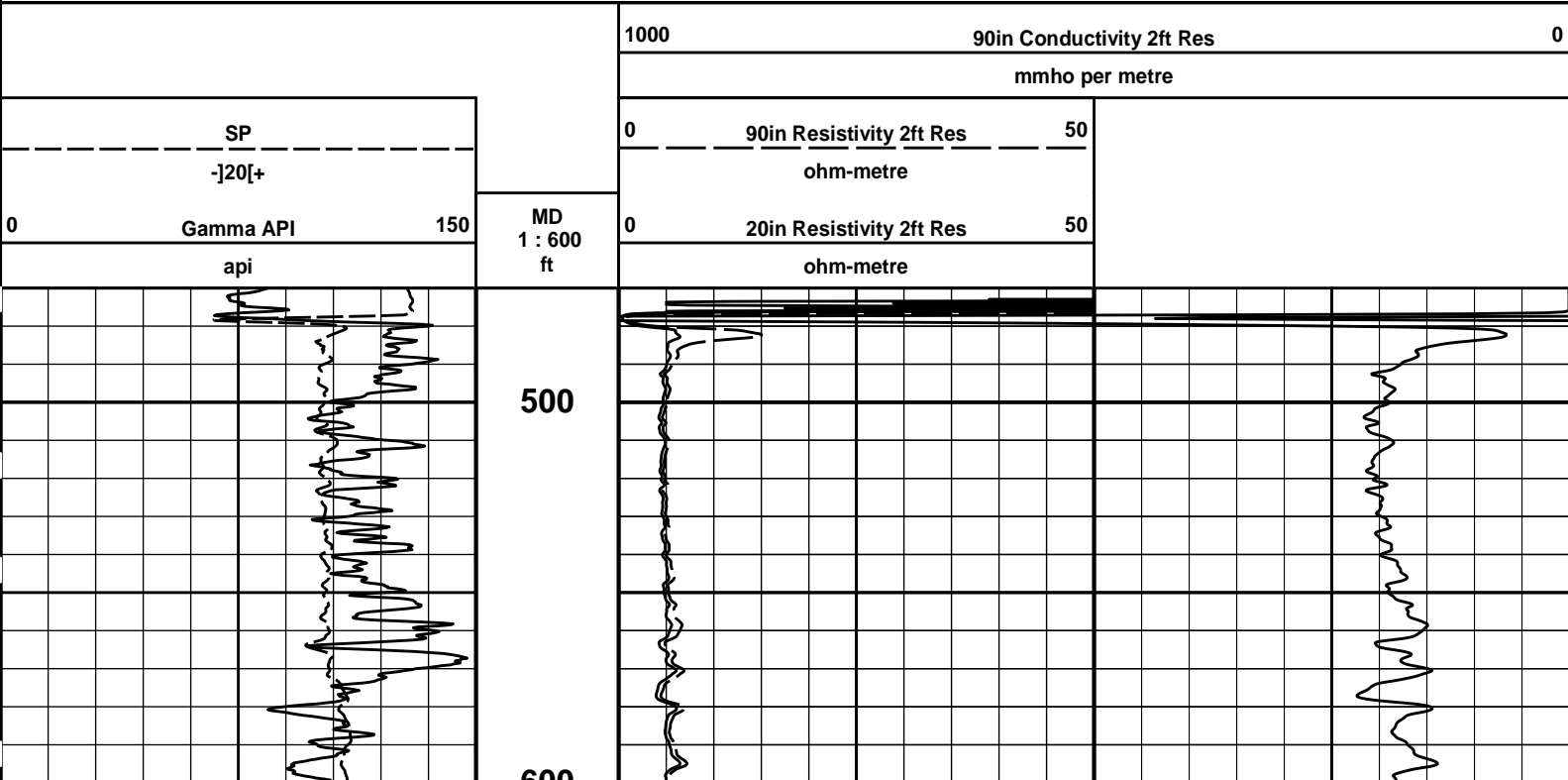
Plot Time: 30-Nov-14 17:31:30
Plot Range: 6298 ft to 6727 ft
Data: CHRISTINA_1-2\Well Based\REPEAT\
Plot File: \\LOCAL-\\CHRISTINA_1-2\Well Based\ACRT\ACRT_5_repeat_lib

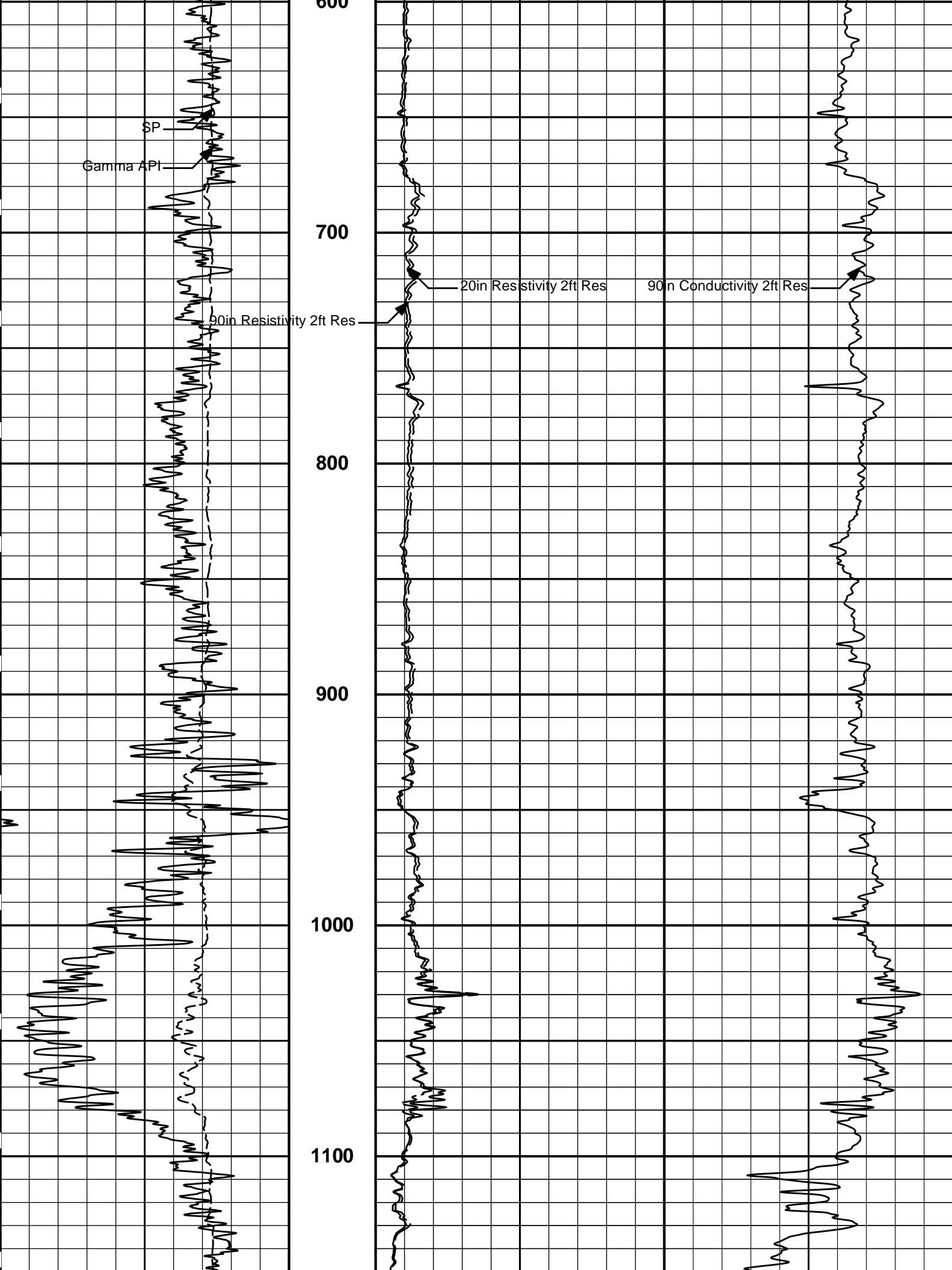
REPEAT SECTION

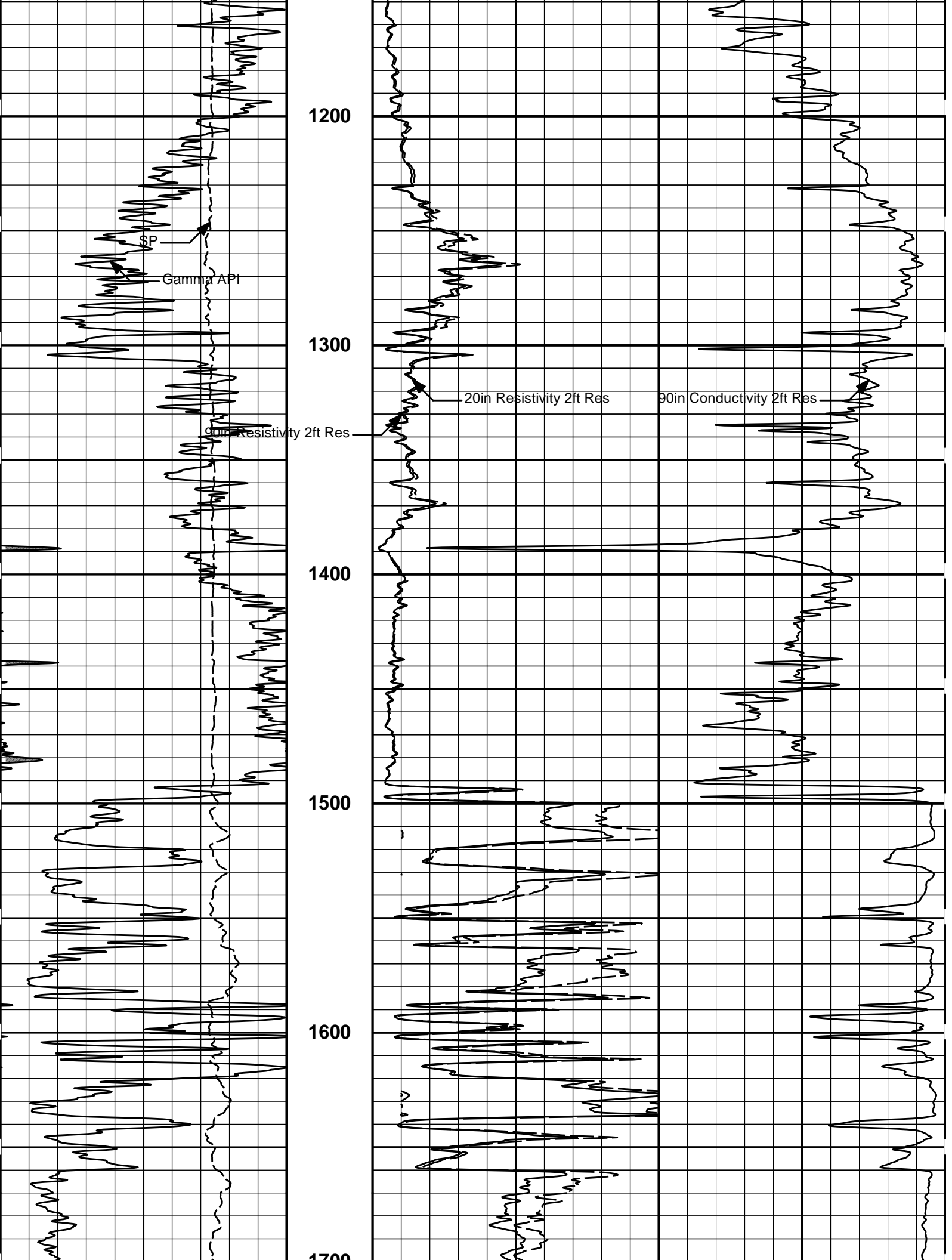
HALLIBURTON

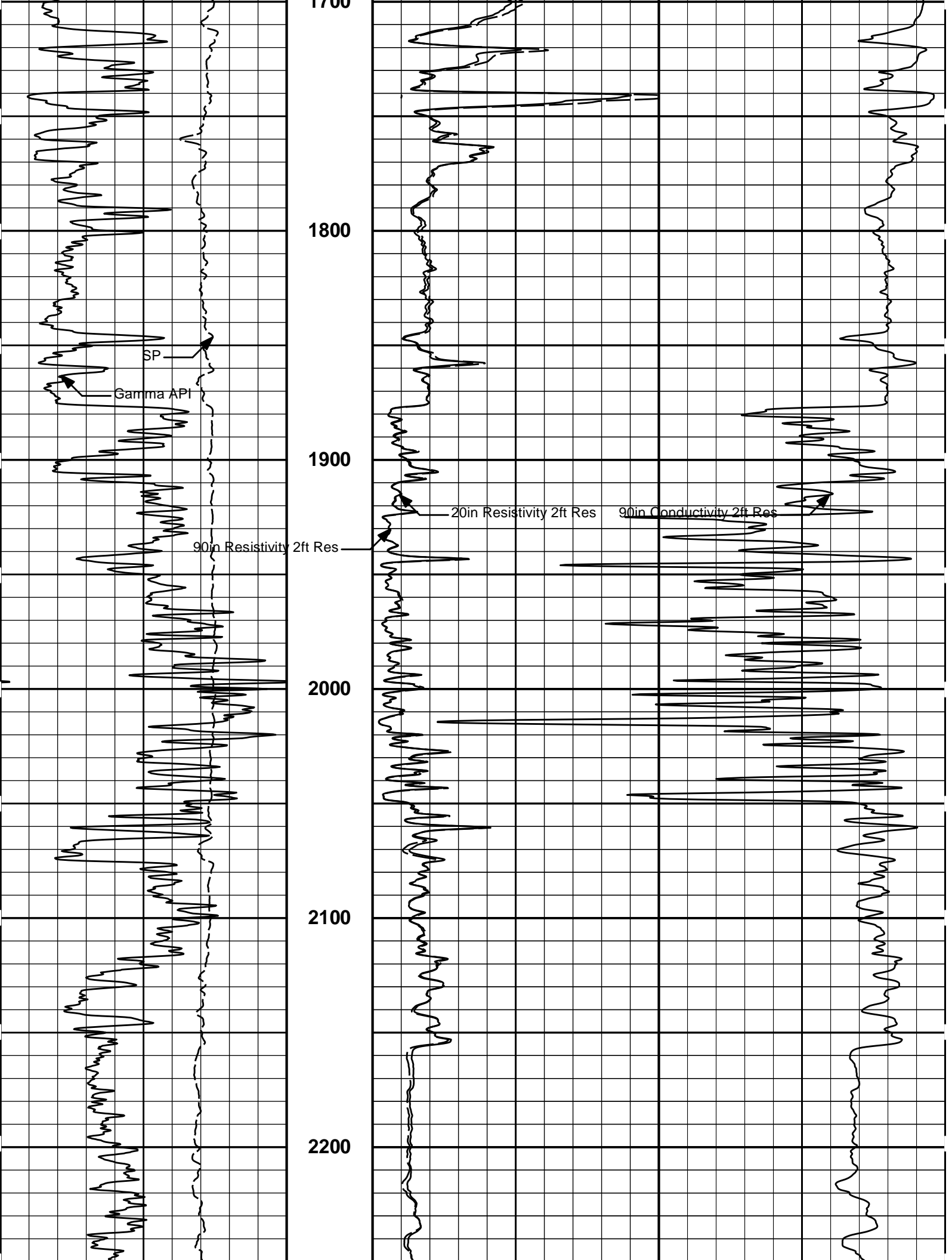
Plot Time: 30-Nov-14 17:31:30
Plot Range: 470 ft to 6728.25 ft
Data: CHRISTINA_1-2\Well Based\MAIN\
Plot File: \\LOCAL-\\CHRISTINA_1-2\Well Based\ACRT\ACRT_2_lib

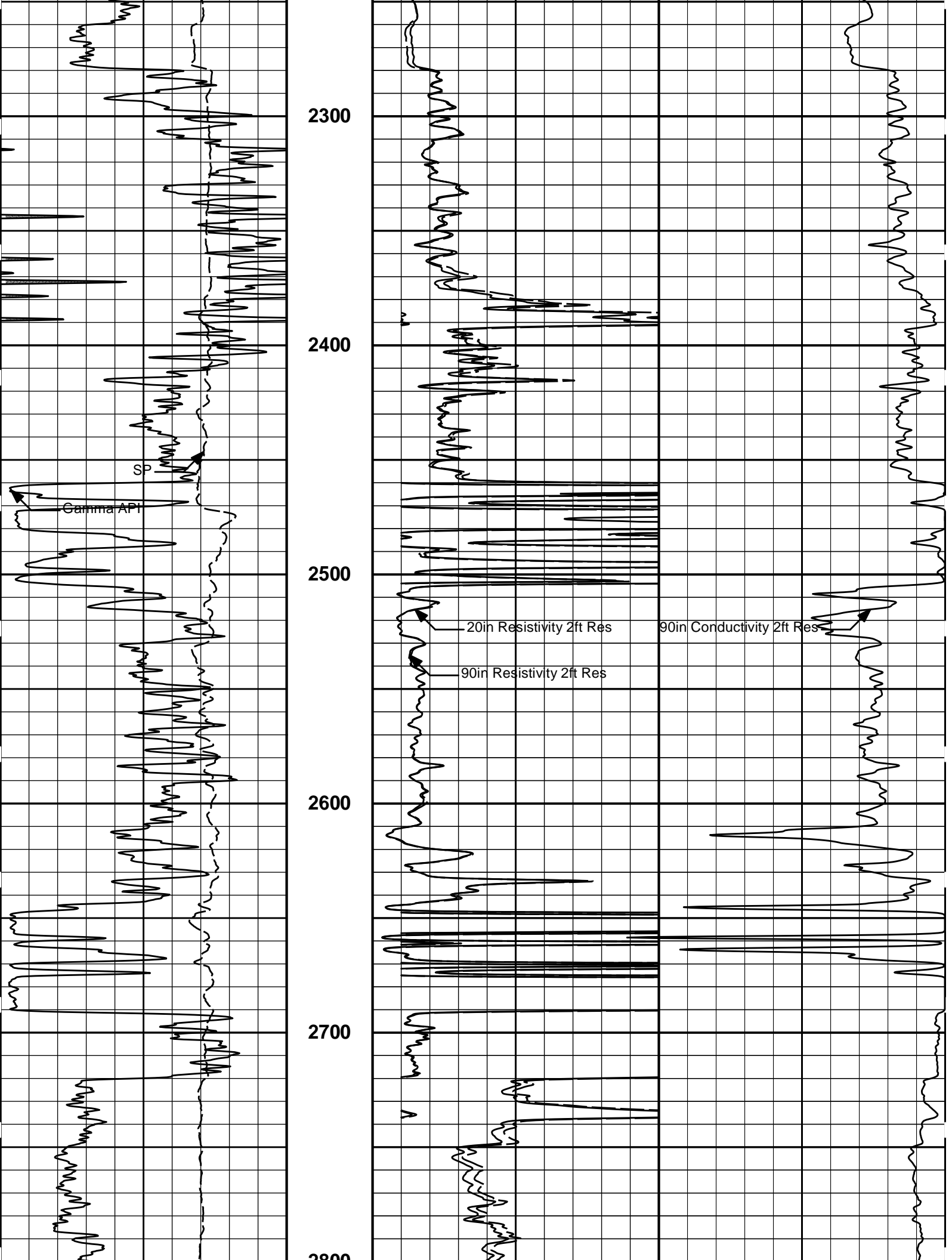
2 INCH MAIN LOG

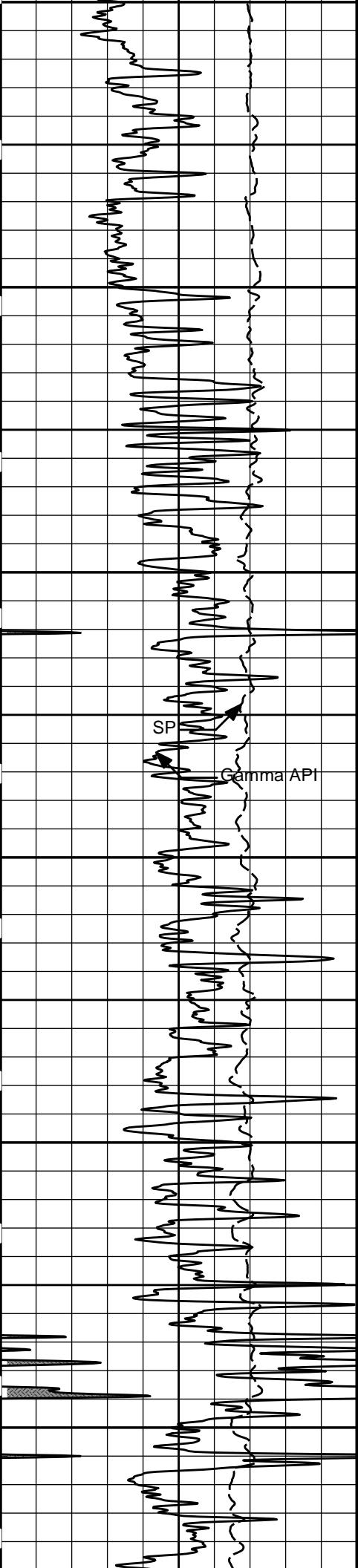




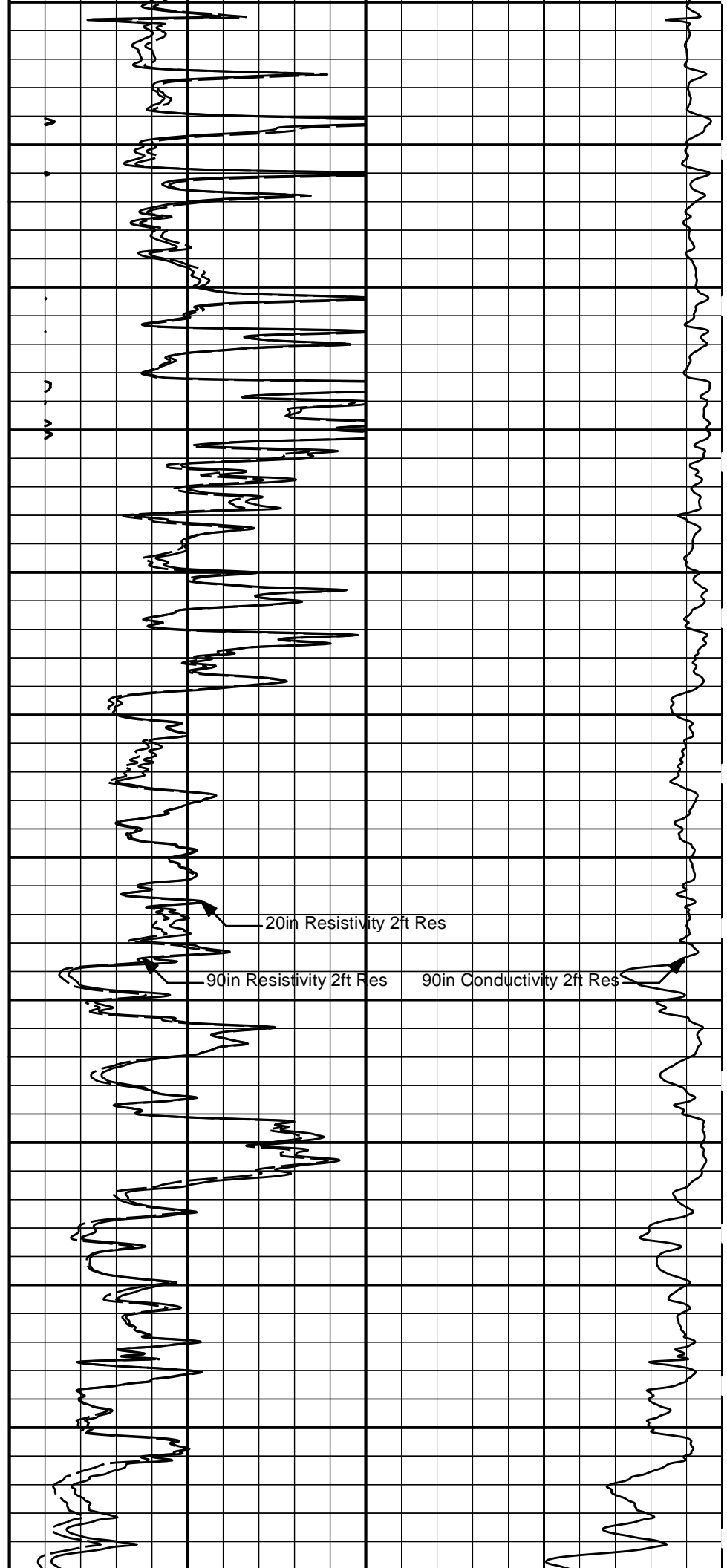


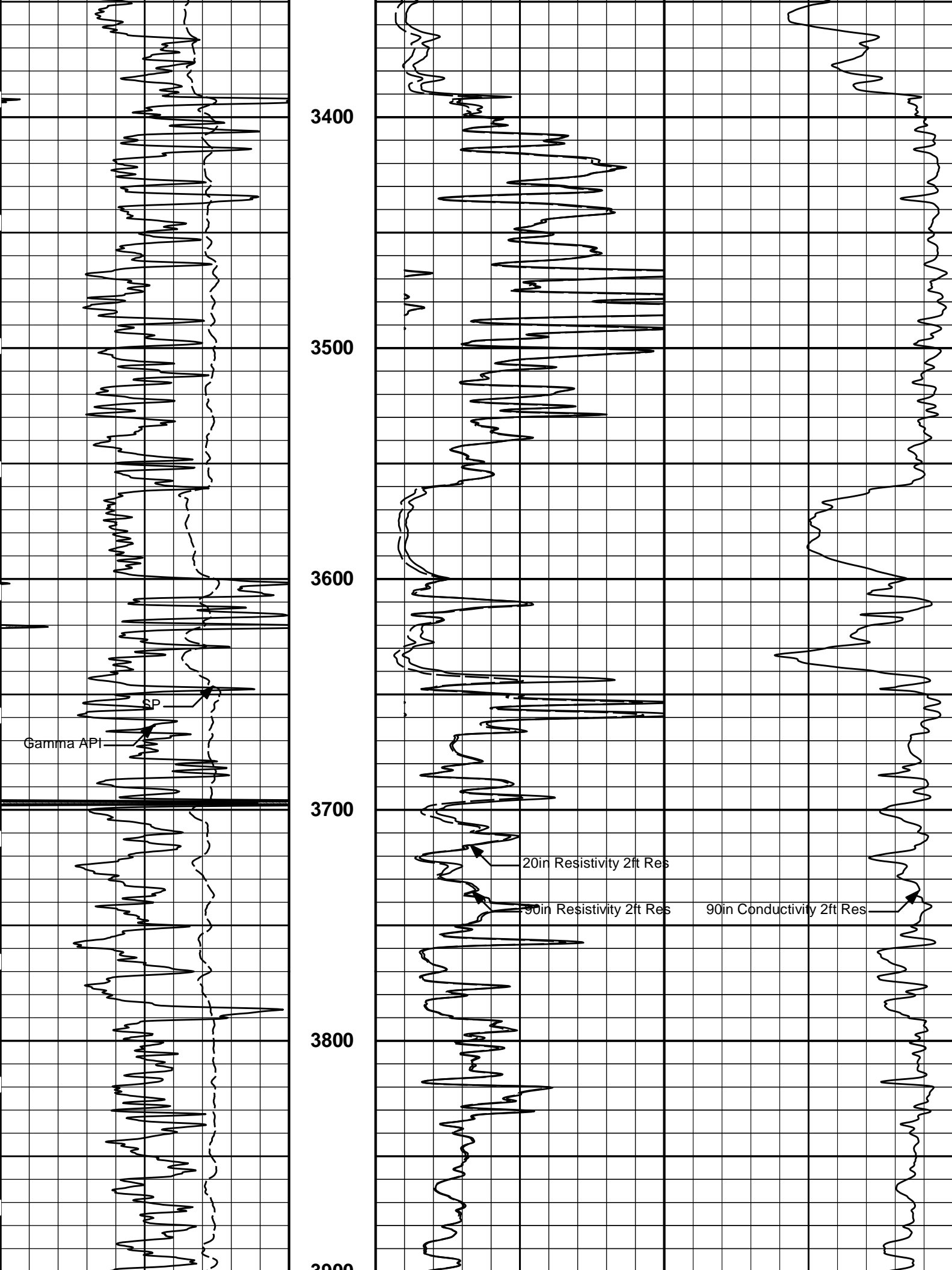


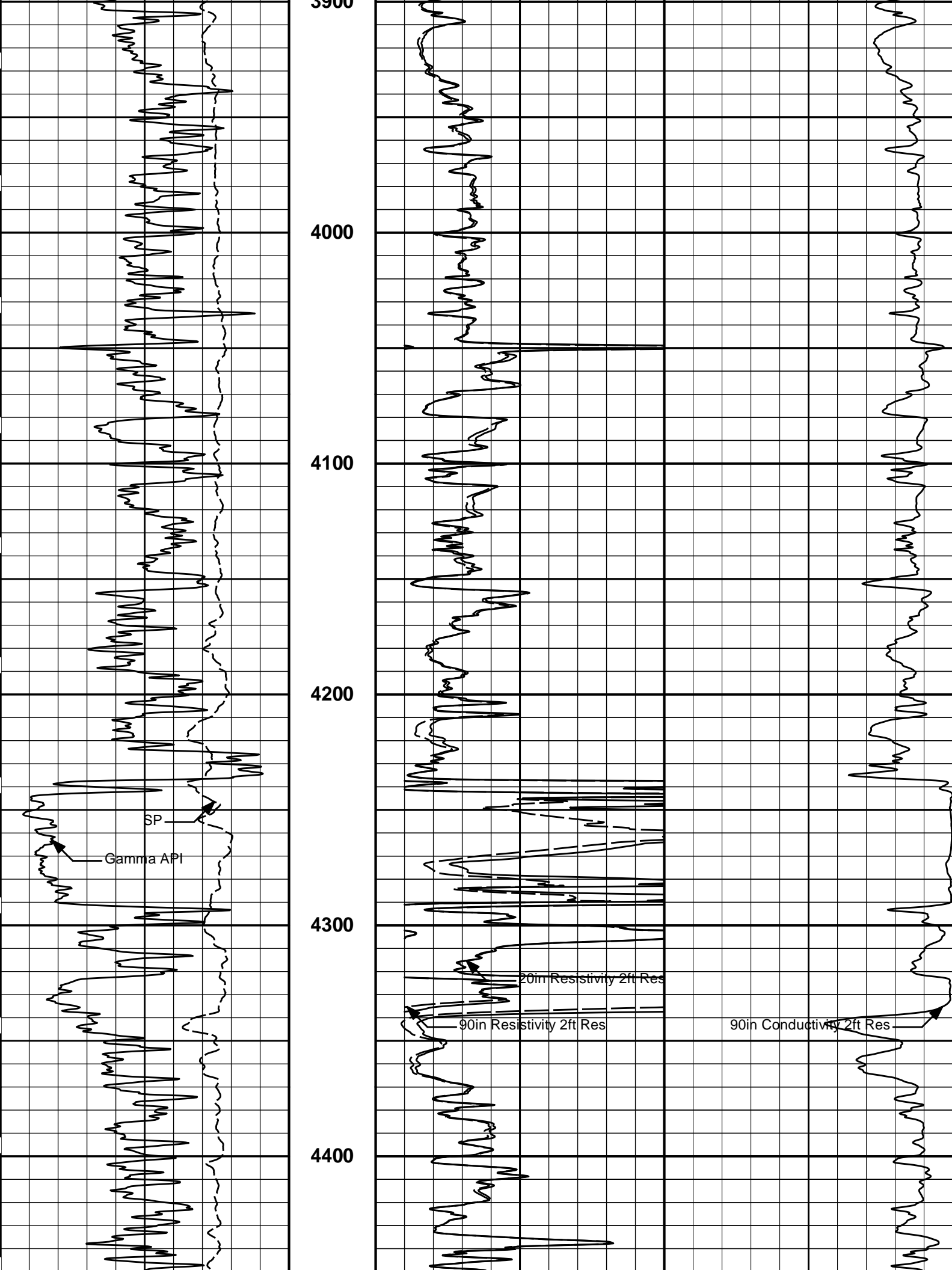


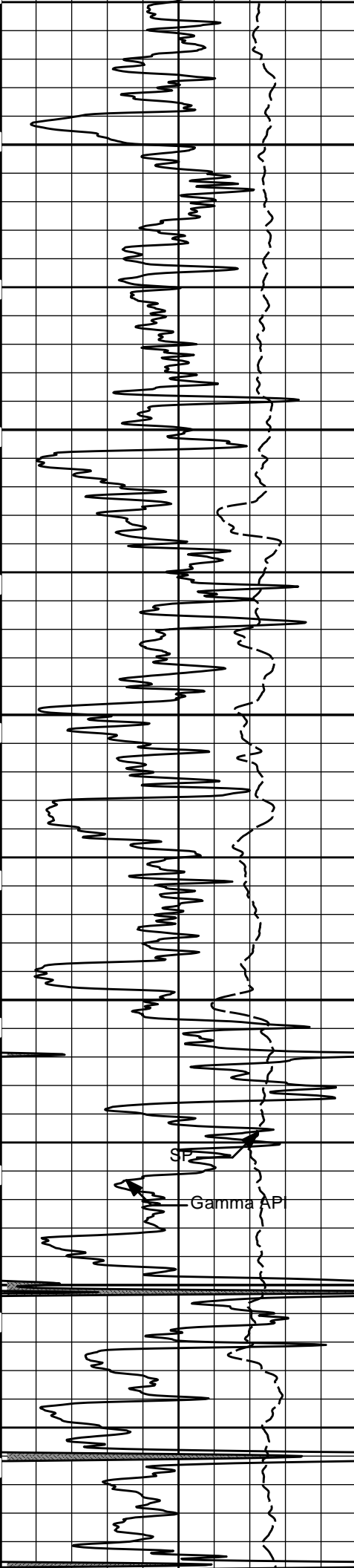


2800
2900
3000
3100
3200
3300









4500

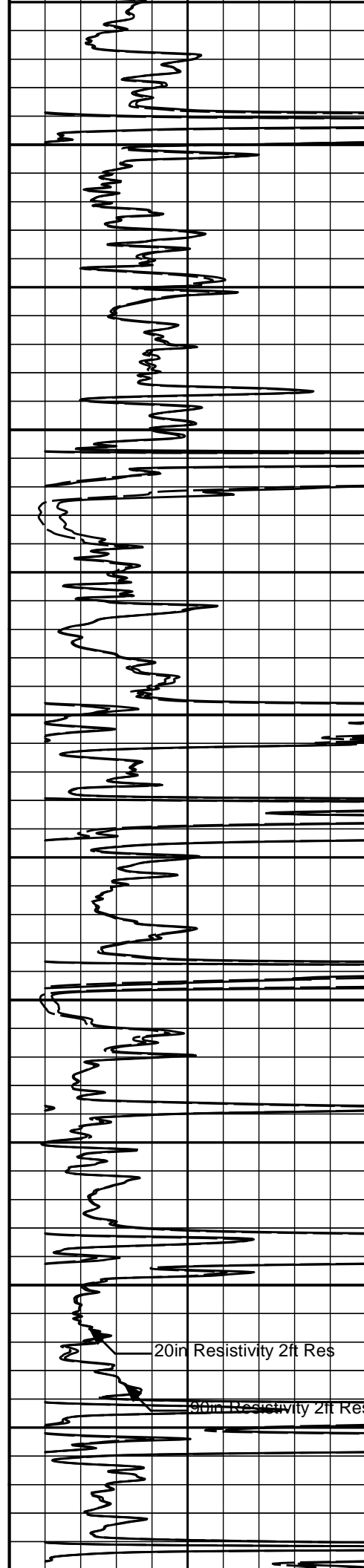
4600

4700

4800

4900

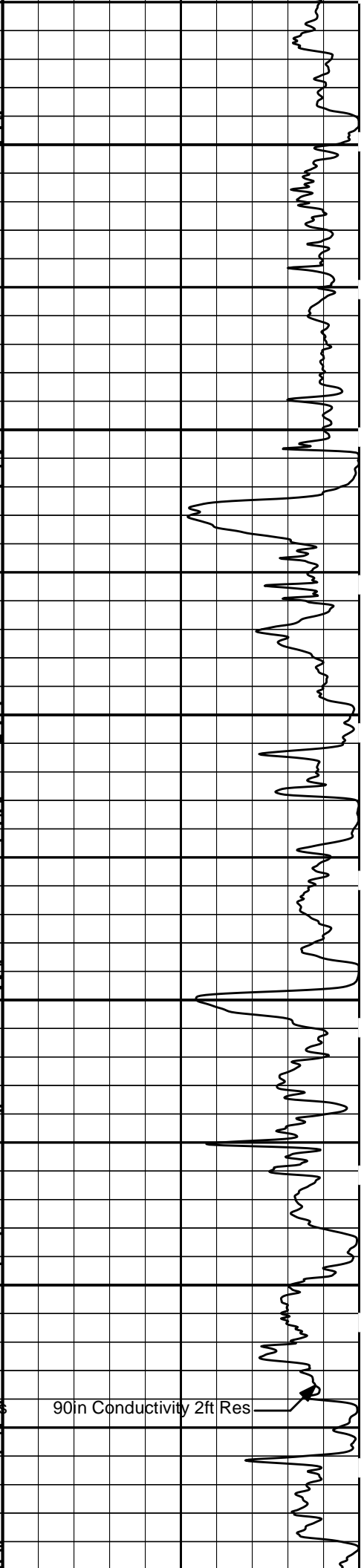
5000

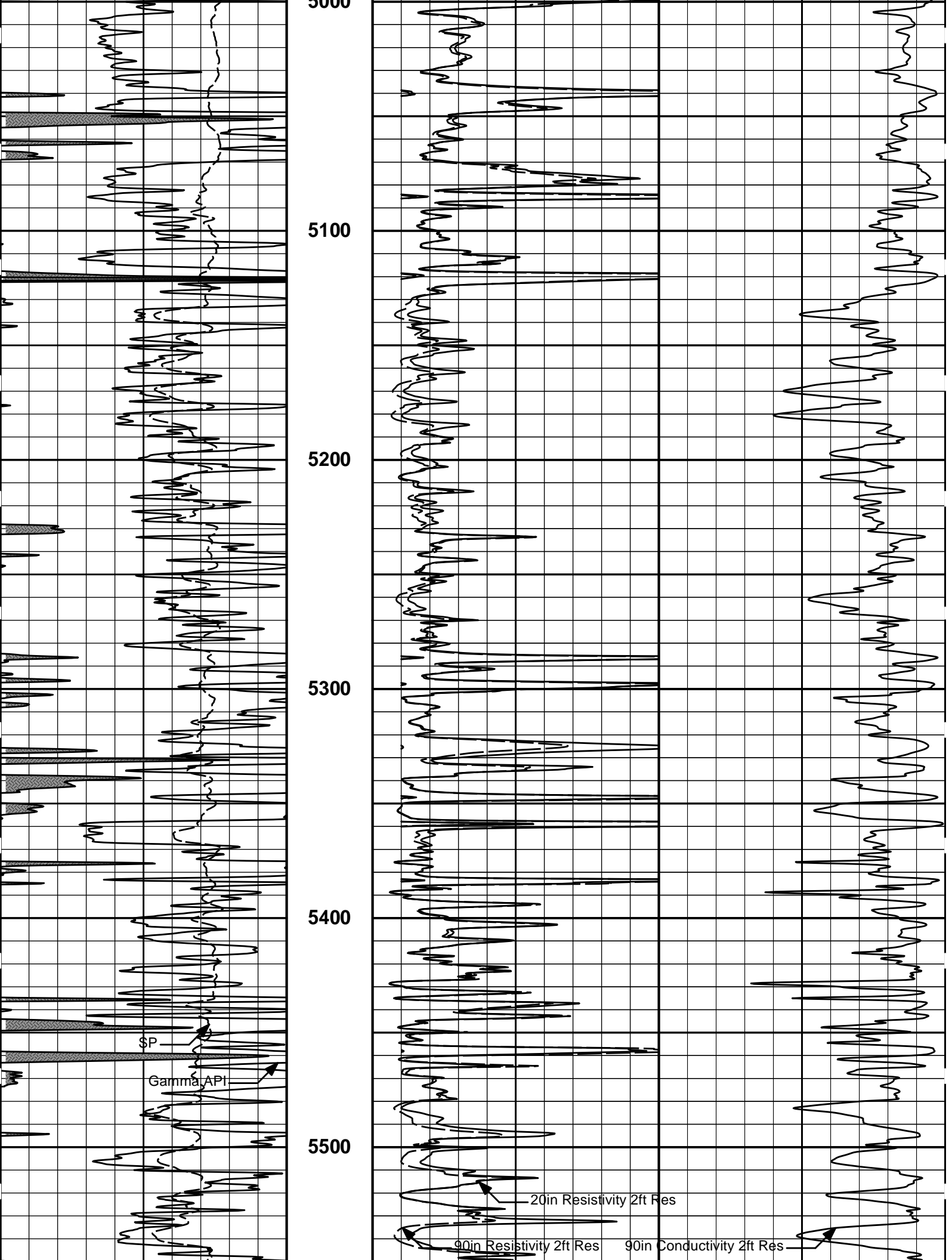


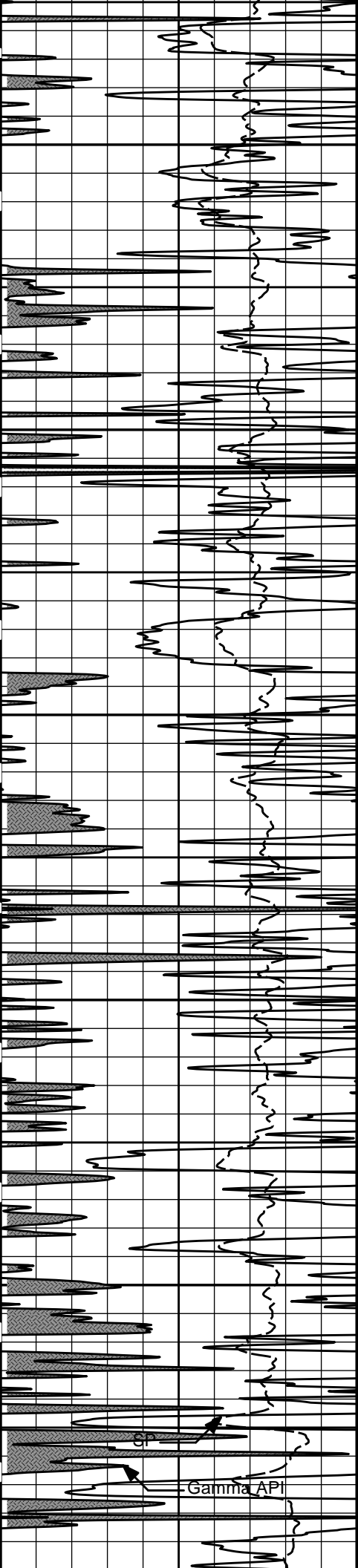
20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res







5600

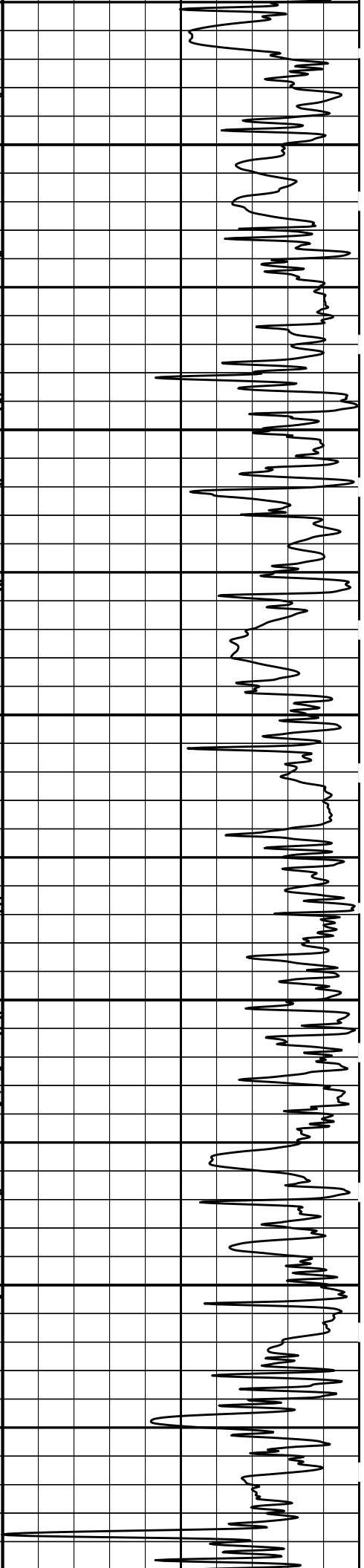
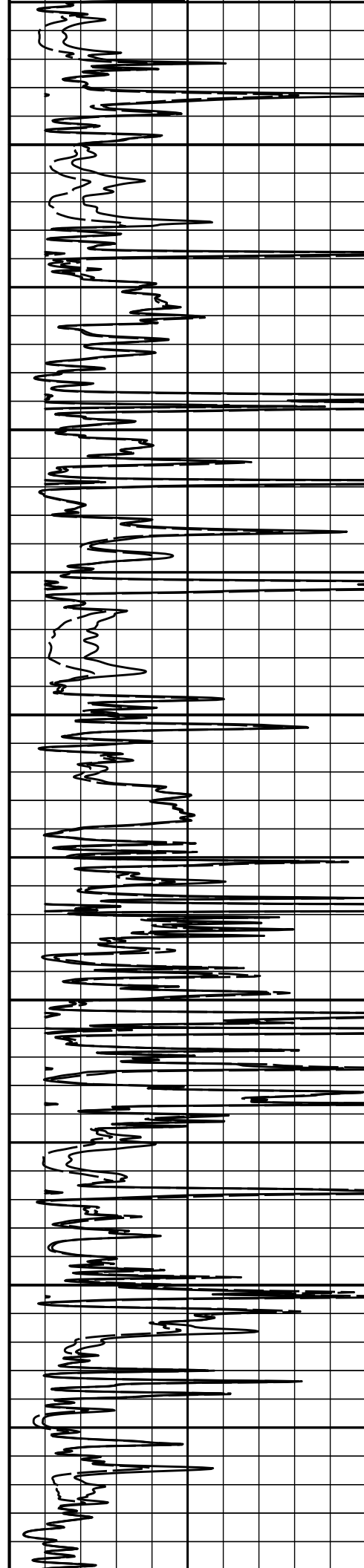
5700

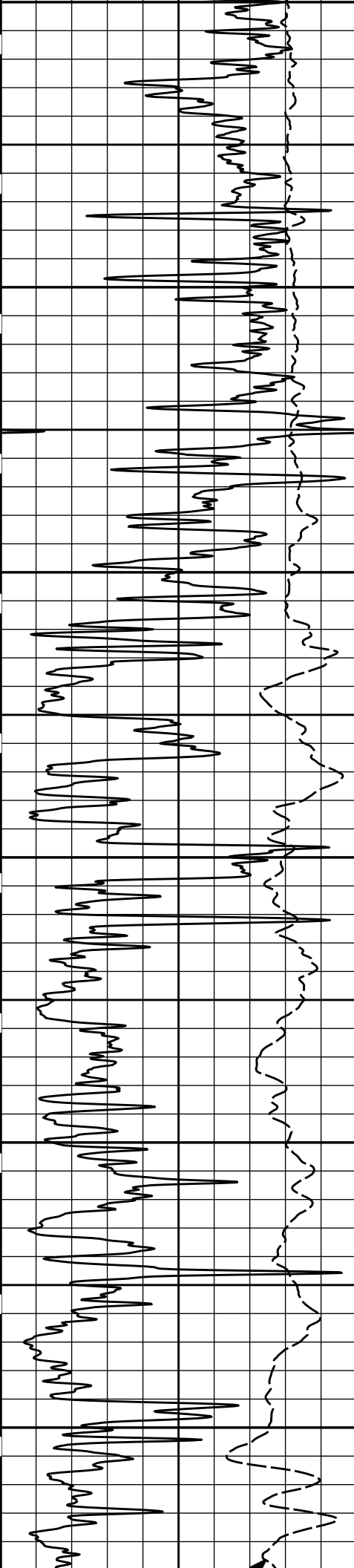
5800

5900

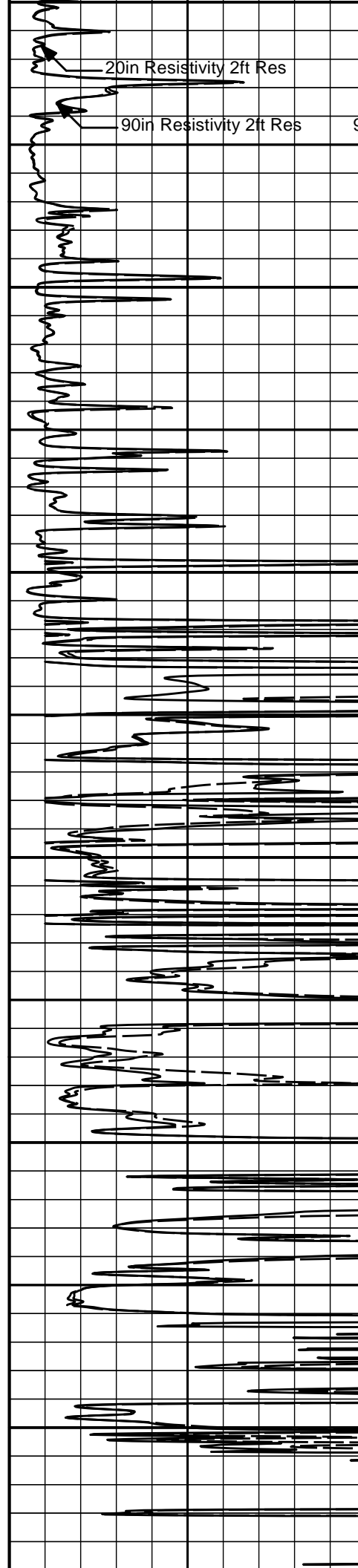
6000

6100





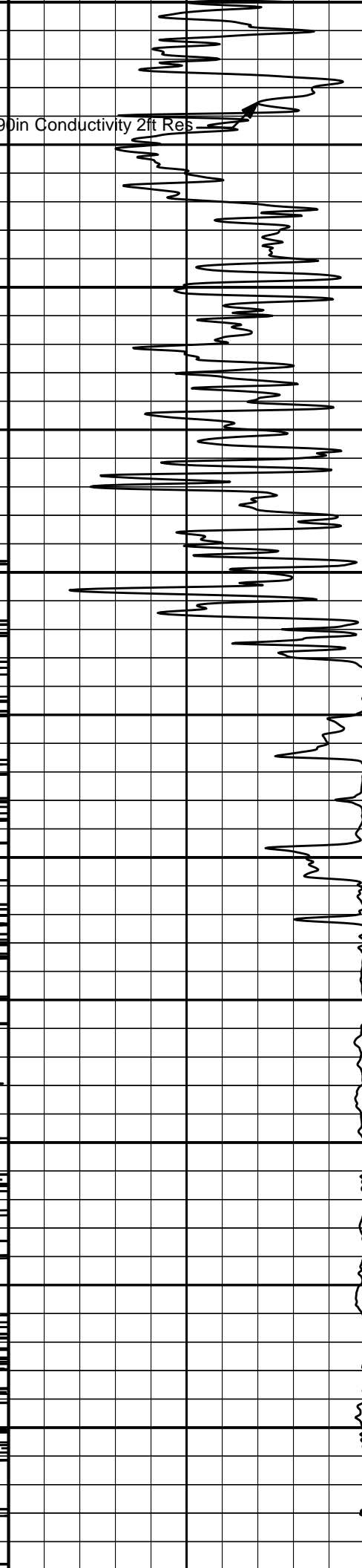
6100
6200
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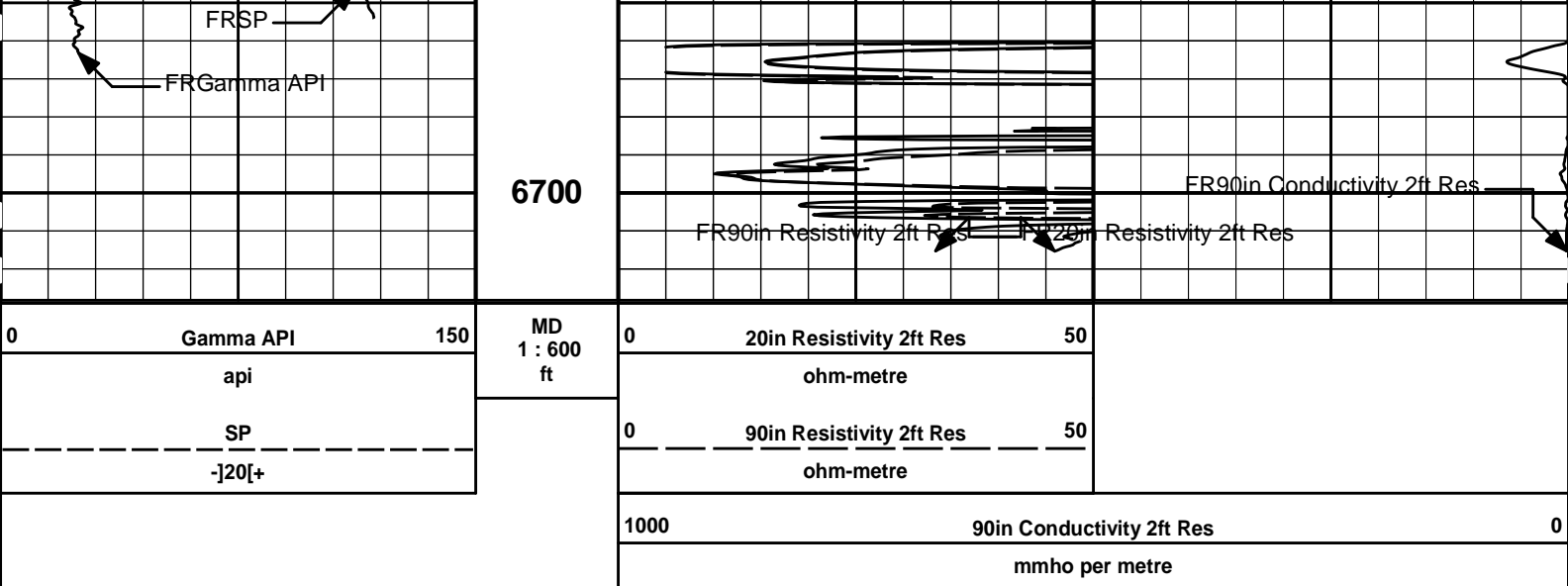


20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res





HALLIBURTON

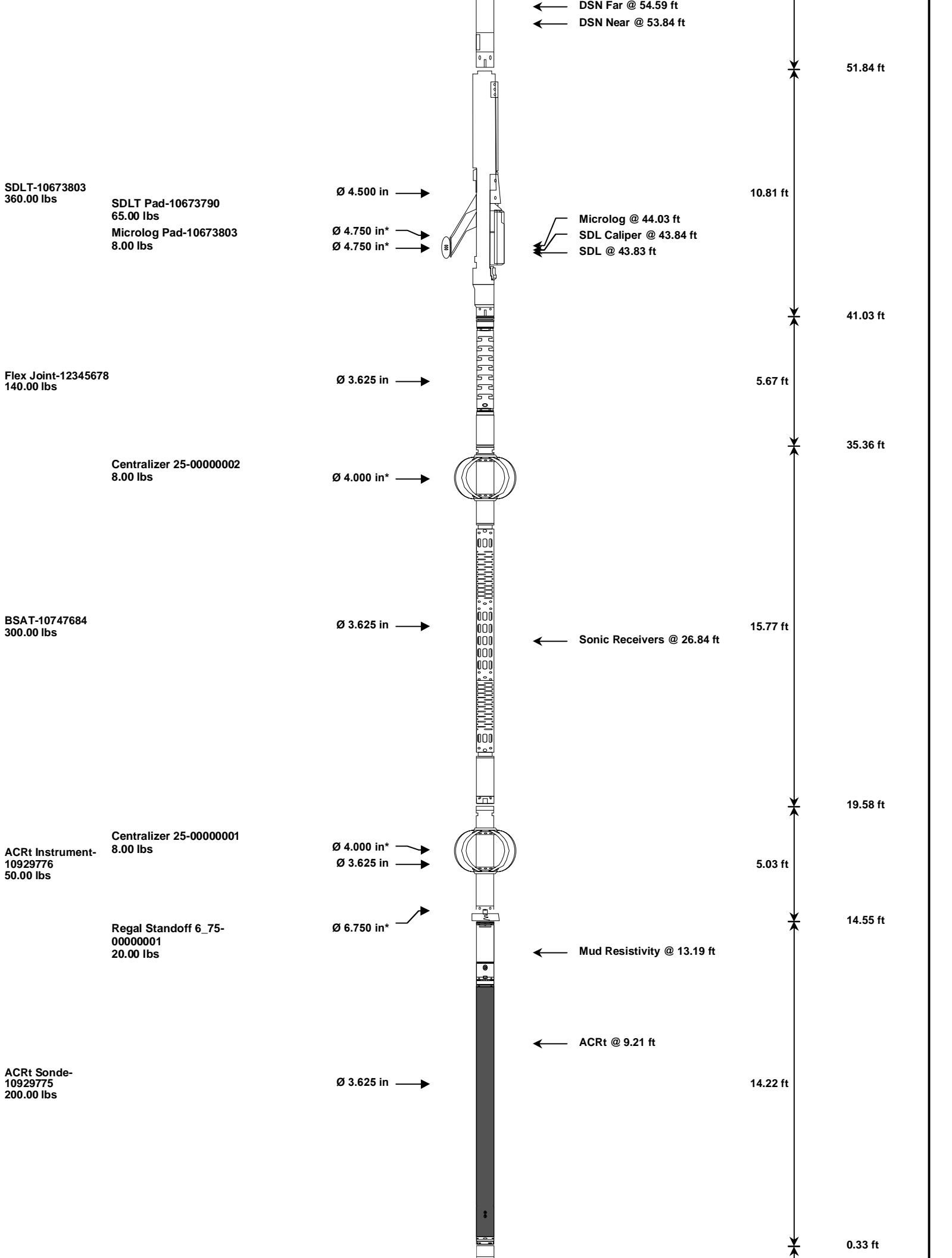
Plot Time: 30-Nov-14 17:31:34
Plot Range: 470 ft to 6728.25 ft
Data: CHRISTINA_1-2\Well Based\MAIN
Plot File: \\LOCAL-CHRISTINA_1-2\Well Based\ACRT\ACRT_2_lib

2 INCH MAIN LOG

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
RWCH-12156658 135.00 lbs		Ø 3.625 in →		Load Cell @ 76.35 ft BH Temperature @ 75.79 ft	6.25 ft	80.04 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		SP @ 72.01 ft	3.74 ft	73.79 ft
GTET-10748374 165.00 lbs		Ø 3.625 in →		GammaRay @ 63.99 ft	8.52 ft	70.05 ft
DSN Decentralizer- 10735145 6.60 lbs		Ø 5.000 in* →				61.53 ft
DSNT-10735145 174.00 lbs		Ø 3.625 in →			9.69 ft	



Bull Nose-00000668 5.00 lbs		Ø 2.750 in →		0.33 ft ↓	0.00 ft	
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12156658	135.00	6.25	73.79	300.00
SP	SP Sub	12345678	60.00	3.74	70.05	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52	61.53	60.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	51.84	60.00
DCNT	DSN Decentralizer	10735145	6.60	5.13 *	55.17	300.00
SDLT	Spectral Density Tool	10673803	360.00	10.81	41.03	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55 *	43.24	60.00
MICP	Microlog Pad	10673803	8.00	1.00 *	43.53	60.00
FLEX	Flex Joint	12345678	140.00	5.67	35.36	300.00
BSAT	Borehole Sonic Array Tool	10747684	300.00	15.77	19.58	60.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08 *	32.89	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10929776	50.00	5.03	14.55	120.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08 *	16.57	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10929775	200.00	14.22	0.33	120.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52 *	14.53	300.00
BLNS	Bull Nose	00000668	5.00	0.33	0.00	300.00
Total			1,704.60	80.04		
* Not included in Total Length and Length Accumulation.						
Data: CHRISTINA_1-2\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BNIDLE					Date: 30-Nov-14 11:53:32	

HALLIBURTON						
PARAMETERS REPORT						
Depth (ft)	Tool Name	Mnemonic	Description	Value	Units	
TOP						
	SHARED	BS	Bit Size	7.875	in	
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No		
	SHARED	MDBS	Mud Base	Water		
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg	
	SHARED	WAGT	Weighting Agent	Natural		
	SHARED	BSAL	Borehole salinity	0.00	ppm	
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm	
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%	
	SHARED	RMUD	Mud Resistivity	2.000	ohmm	
	SHARED	TRM	Temperature of Mud	75.0	degF	
	SHARED	CSD	Logging Interval is Cased?	No		
	SHARED	ICOD	AHV Casing OD	5.500	in	
	SHARED	ST	Surface Temperature	75.0	degF	
	SHARED	TD	Total Well Depth	6725.00	ft	
	SHARED	BHT	Bottom Hole Temperature	140.0	degF	
	SHARED	SVTM	Navigation and Survey Master Tool	NONE		
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET		
	SHARED	TEMM	Temperature Master Tool	NONE		
	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 /					

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	SDLT	
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	SDLT	
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	SDLT	
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	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
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	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	
ACRt Sonde	HRFL	High-Resistivity Version (Tar Sand Only)?	No	

BOTTOM

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 10748374	Reference Calibration Date:	01-Oct-14 15:40:42
Engineer:	SHELDON INGERSOLL	Calibration Date:	18-Nov-14 16:59:40
Software Version:	WL INSITE R4.4.3 (Build 6)	Calibration Version:	1

Calibrator Source S/N: TB-185
Calibrator API Reference:228.00 api
Equivalent Calibrator API Reference:232.0 api

Measurement	Measured	Calibrated	Units
Background	38.0	36.9	api
Background + Calibrator	276.9	268.9	api
Calibrator	238.9	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 10748374	Reference Calibration Date:	18-Nov-14 16:59:40
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	26-Nov-14 11:38:50
Software Version:	WL INSITE R4.4.3 (Build 6)	Calibration Version:	1

Calibrator Source S/N: TB-185
Calibrator API Reference:228.00 api
Equivalent Calibrator API Reference:232.0 api

Field Verification	Shop	Field	Units
Background	36.9	75.0	api
Background + Calibrator	268.9	299.8	api
Calibrator	232.0	224.8	api

Shop	Field	Difference	Tolerance
232.0	224.8	7.2	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 10929775	Reference Calibration Date:	22-Aug-14 11:17:44
Engineer:	SHELDON INGERSOLL	Calibration Date:	04-Nov-14 09:31:50
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10929776		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0184	1.05	0.95	1.0200	1.05	0.95	1.0141	1.05
A2 (50")	0.95	1.0148	1.05	0.95	1.0172	1.05	0.95	1.0137	1.05
A3 (29")	0.95	1.0036	1.05	0.95	1.0049	1.05	0.95	1.0014	1.05
A4 (17")	0.95	1.0036	1.05	0.95	1.0043	1.05	0.95	1.0034	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0026	1.05	0.95	1.0017	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9871	1.05	0.95	0.9870	1.05

SONDE OFFSET

Subarray	R12KHz	R36KHz	R72KHz
	(mmho/m)	(mmho/m)	(mmho/m)

A1 (80")	-1.665	-4.525	-4.625
A2 (50")	-2.739	-4.241	-4.425
A3 (29")	-15.077	-4.740	-2.752
A4 (17")	-102.053	-31.941	-24.853
A5 (10")	N/A	-115.308	-53.416
A6 (6")	N/A	268.722	134.470

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.83	1.3	Mud Cell	0.95	0.99	1.05
36K	1.0	1.16	2.0				
72K	1.0	1.45	2.0				
PASS/FAIL SUMMARY							
GAIN RANGE CHK				PASS			
SONDE OFFSET CHK				PASS			
TOOL OK TO LOG							

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10748374						
Gamma Ray Calibrator	232.0	224.8	-----	7.2	+/- 9.00	api
ACRt Sonde-10929775						
Mud Cell	0.99	-----	-----	0.00	-----	ohm-m
Data: CHRISTINA_1-2\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BNIDLE					Date: 30-Nov-14 11:54:53	

HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
Rwa / CrossPlot				
TPUL	Tension Pull	80.04	NO	
BS	Bit Size	80.04	NO	
HDIA	Measured Hole Diameter	0.00	NO	
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	72.01	NO	
SP	Spontaneous Potential	72.01	BLK	1.250
SPR	Raw Spontaneous Potential	72.01	NO	
SPO	Spontaneous Potential Offset	72.01	NO	
GTET				
TPUL	Tension Pull	63.99	NO	
GR	Natural Gamma Ray API	63.99	TRI	1.750

GRU	Unfiltered Natural Gamma Ray API	63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	63.99	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	53.74	NO	
RNDS	Near Detector Telemetry Counts	53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.59	TRI	0.583
DNTT	DSN Tool Temperature	53.84	NO	
DSNS	DSN Tool Status	53.74	NO	
ERND	Near Detector Telemetry Counts EVR	53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR	53.84	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	43.84	NO	
PCAL	Pad Caliper	43.84	TRI	0.250
ACAL	Arm Caliper	43.84	TRI	0.250
BSAT				
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
ACRt Sonde				
TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000

F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	

SDLT Pad				
TPUL	Tension Pull	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920
NVA	Near Valley	43.66	BLK	0.920
NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	
FHV	Far Detector High Voltage	43.24	NO	
ITMP	Instrument Temperature	43.24	NO	
DDHV	Detector High Voltage	43.24	NO	

HDIA	Measured Hole Diameter	0.00	NO	
Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750
Data: CHRISTINA_1-2\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-BNIDLE			Date: 30-Nov-14 11:54:28	

COMPANY	VAL ENERGY		
WELL	CHRISTINA 1-2		
FIELD	WILDCAT		
COUNTY	CROWLEY	STATE	COLORADO
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	