

HALLIBURTON

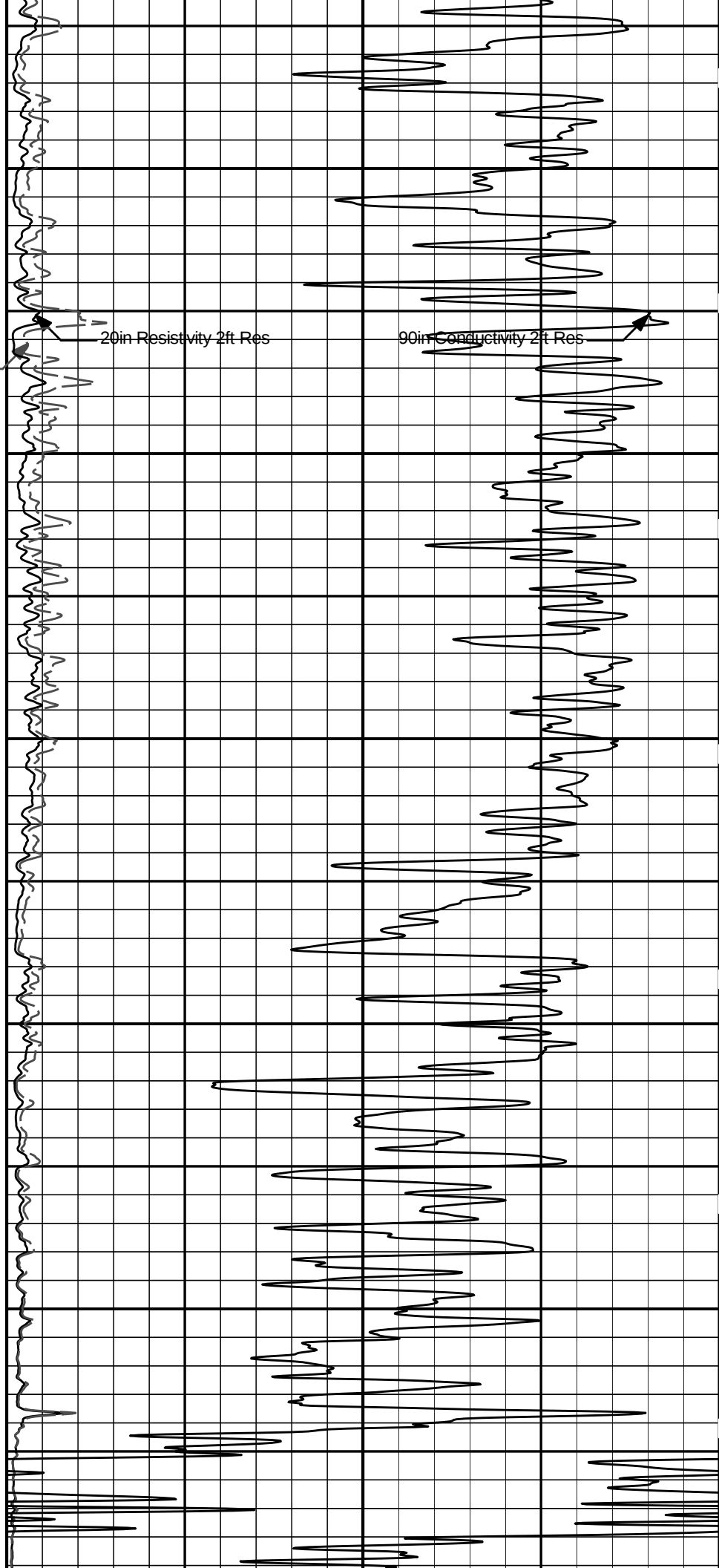
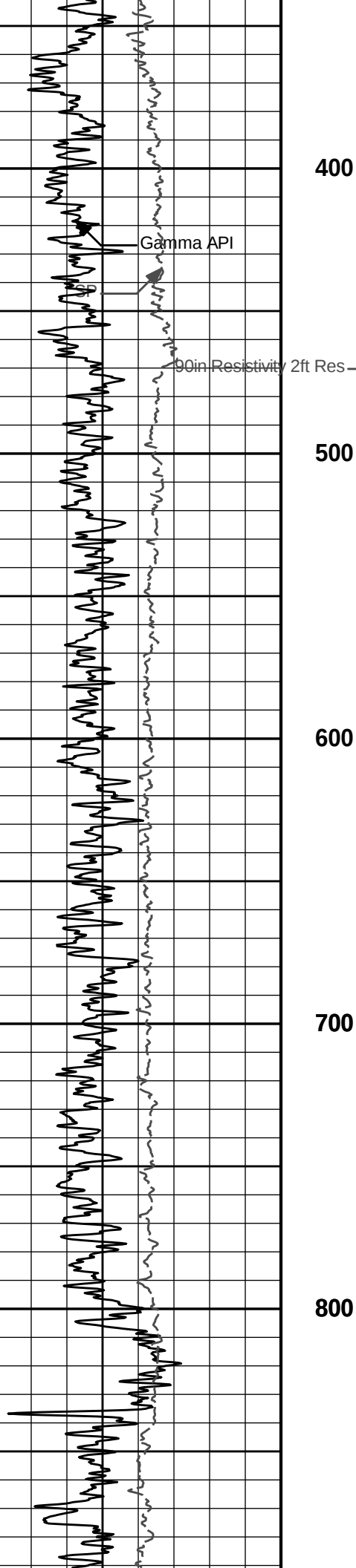
ARRAY COMPENSATED TRUE RESISTIVITY LOG

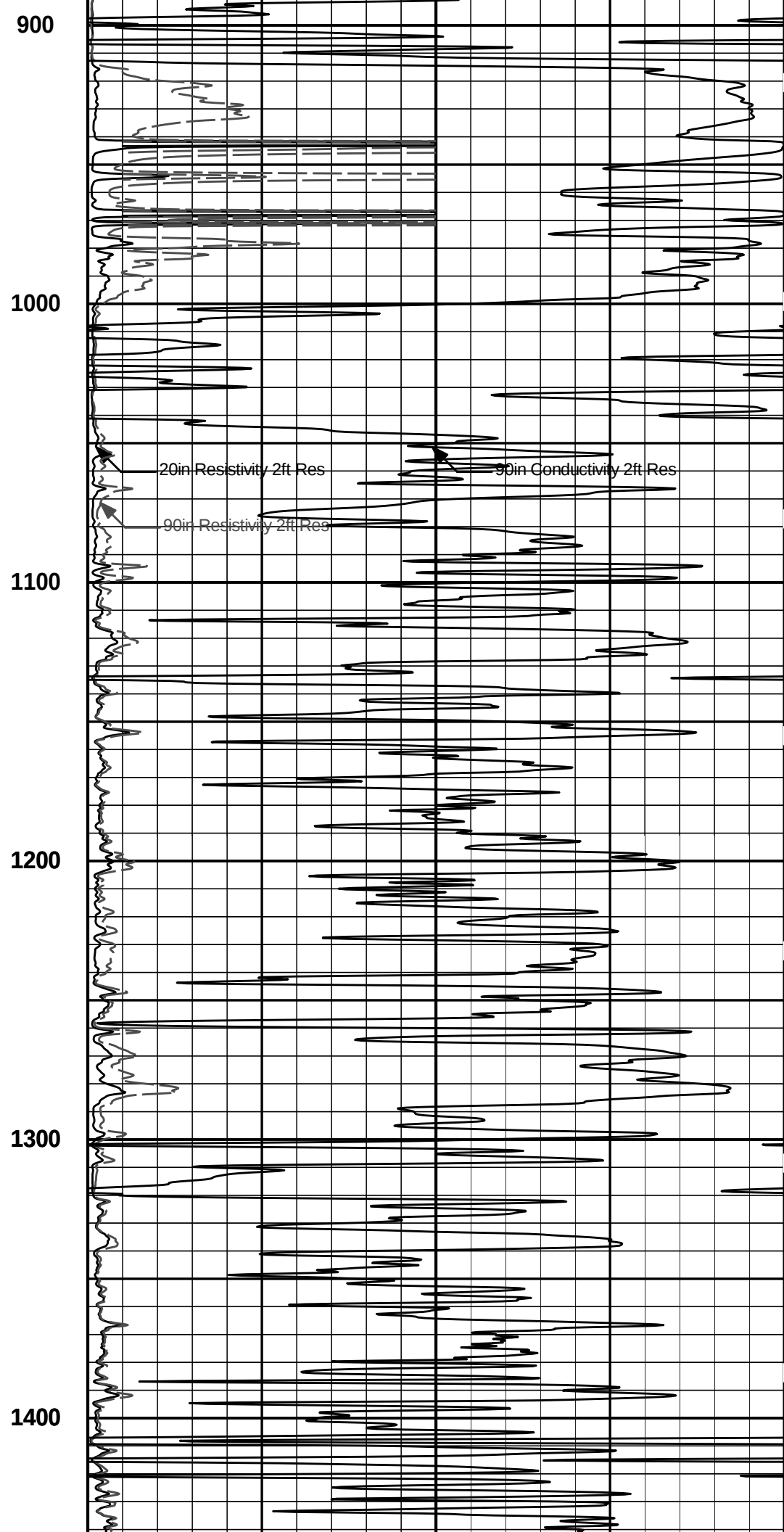
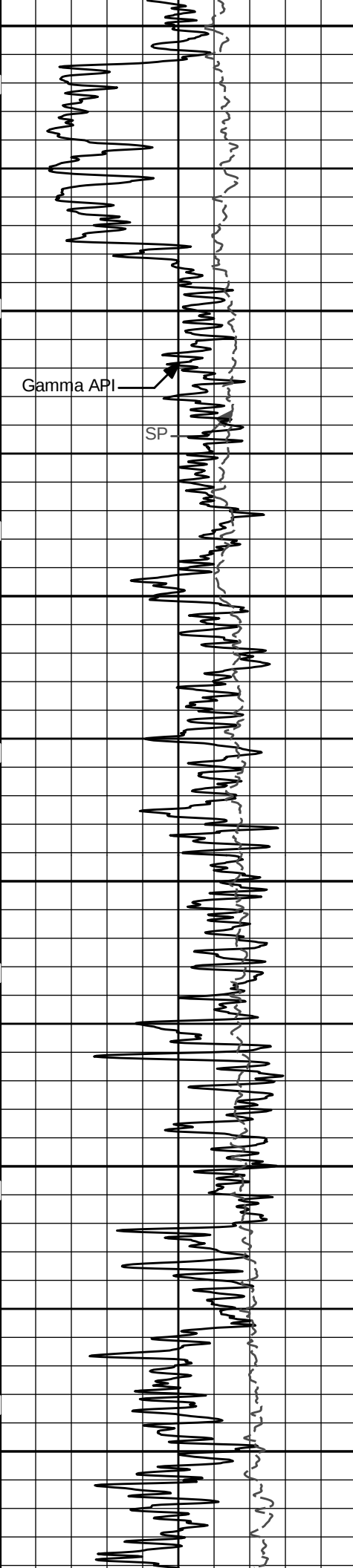
HALLIBURTON										ARRAY COMPENSATED TRUE RESISTIVITY LOG									
COMPANY WELL FIELD COUNTY STATE					VAL ENERGY, INC., HOAGLAND 1-22 UNKNOWN BARBER KANSAS					COMPANY WELL FIELD COUNTY STATE					VAL ENERGY, INC., HOAGLAND 1-22 UNKNOWN BARBER KANSAS				
Permanent Datum Log measured from Drilling measured from					GL KB KB					Sect. 22 Twp. 32S Rge. 14W					Elev.: KB. D.F. G.L.				
Date					15-Jan-12														
Run No.					ONE														
Depth - Driller					5270.00 ft														
Depth - Logger					5264.0 ft														
Bottom - Logged Interval					5255 ft														
Top - Logged Interval					226 ft														
Casing - Driller					8.625 in @ 224.0 ft										@				
Casing - Logger					226.0 ft														
Bit Size					7.875 in										@				
Type Fluid in Hole					WATER BASED MUD														
Density					9.5 ppg					61.00 s/qt									
PH					12.00 pH					13.6 cpm									
Source of Sample					FLOWLINE														
Rm @ Meas. Temperature					0.340 ohmm @ 67.00 degF										@				
Rmf @ Meas. Temperature					0.29 ohmm @ 65.00 degF										@				
Rmc @ Meas. Temperature					0.450 ohmm @ 65.00 degF										@				
Source Rmf					MEASURED														
Rmc					MEASURED														
Rm @ BHT					0.21 ohmm @ 115.0 degF										@				
Time Since Circulation					0.0 hr														
Time on Bottom					15-Jan-12 23:17														
Max. Rec. Temperature					115.0 degF @ 5264.0 ft										@				
Equipment					10782954					LIBERAL									
Recorded By					C. MARLOWE														
Witnessed By					S. VANBUSKIRK														

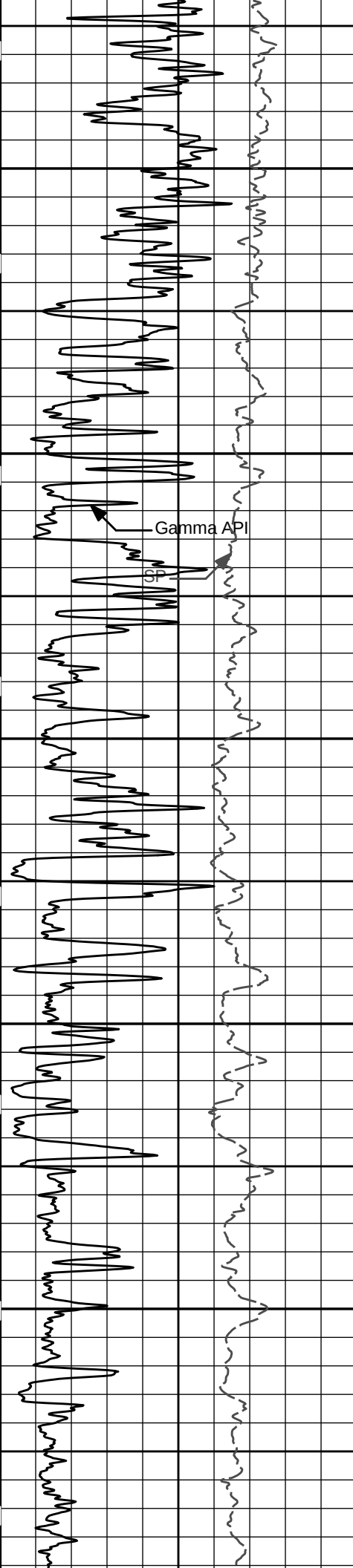
Fold here

Service Ticket No.: 99198957			
API Serial No.: 15-007-23821			
PGM Version: WL INSITE R3.4.2 (Build 2)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE			
Date	Sample No.		
Depth-Driller			
Type Fluid in Hole			
Density	Viscosity		
Ph	Fluid Loss		
Source of Sample			
Rm @ Meas. Temp	@	@	
Rmf @ Meas. Temp.	@	@	
Rmc @ Meas. Temp.	@	@	
Source Rmf	Rmc		
Rm @ BHT	@	@	
Rmf @ BHT	@	@	
Rmc @ BHT	@	@	
RESISTIVITY SCALE CHANGES			
Type Log	Depth	Scale Up Hole	Scale Down Hole
RESISTIVITY EQUIPMENT DATA			
Run No.	Tool Type & No.	Pad Type	Tool Pos.
ONE	ACRT	N/A	1.5" S.O.
	I776_S775		
EQUIPMENT DATA			
GAMMA		ACOUSTIC	
Run No.	ONE	Run No.	
Serial No.	10748374	Serial No.	
Model No.	GTET	Model No.	
Diameter	3.625"	No. of Cent.	
Detector Model No.	T-102	Spacing	
Type	SCINT	Source Type	
Length	8"	Serial No.	
Distance to Source	10'	FWDA [Y/N]	
LOGGING DATA			
GENERAL		GAMMA	
ACOUSTIC		DENSITY	
NEUTRON			
Run No.		Run No.	
Serial No.		Serial No.	
Model No.		Model No.	
Diameter		Diameter	
Log Type		Log Type	
Source Type		Source Type	
Serial No.		Serial No.	
Strength		Strength	

			1000	90in Conductivity 2ft Res		0	
			mmho per metre				
SP			0	90in Resistivity 2ft Res		50	
-120[+			ohm-metre				
0	Gamma API	150	1 : 600 ft	0	20in Resistivity 2ft Res		50
api				ohm-metre			
			200				







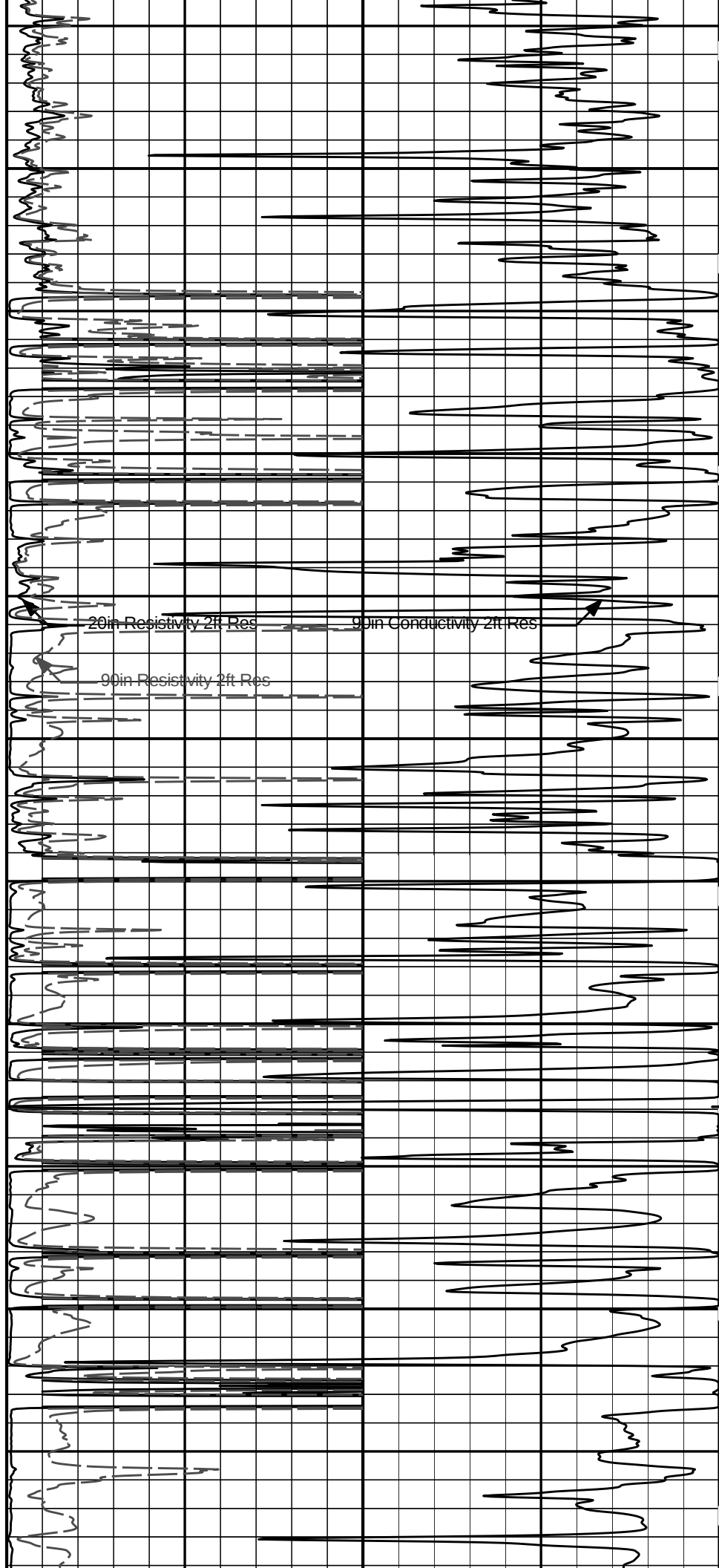
1500

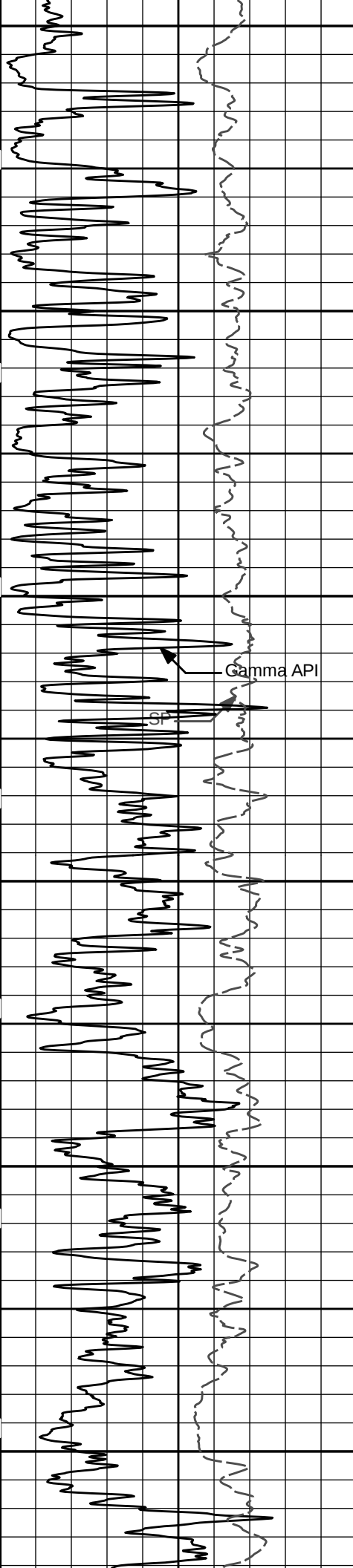
1600

1700

1800

1900





2000

2100

2200

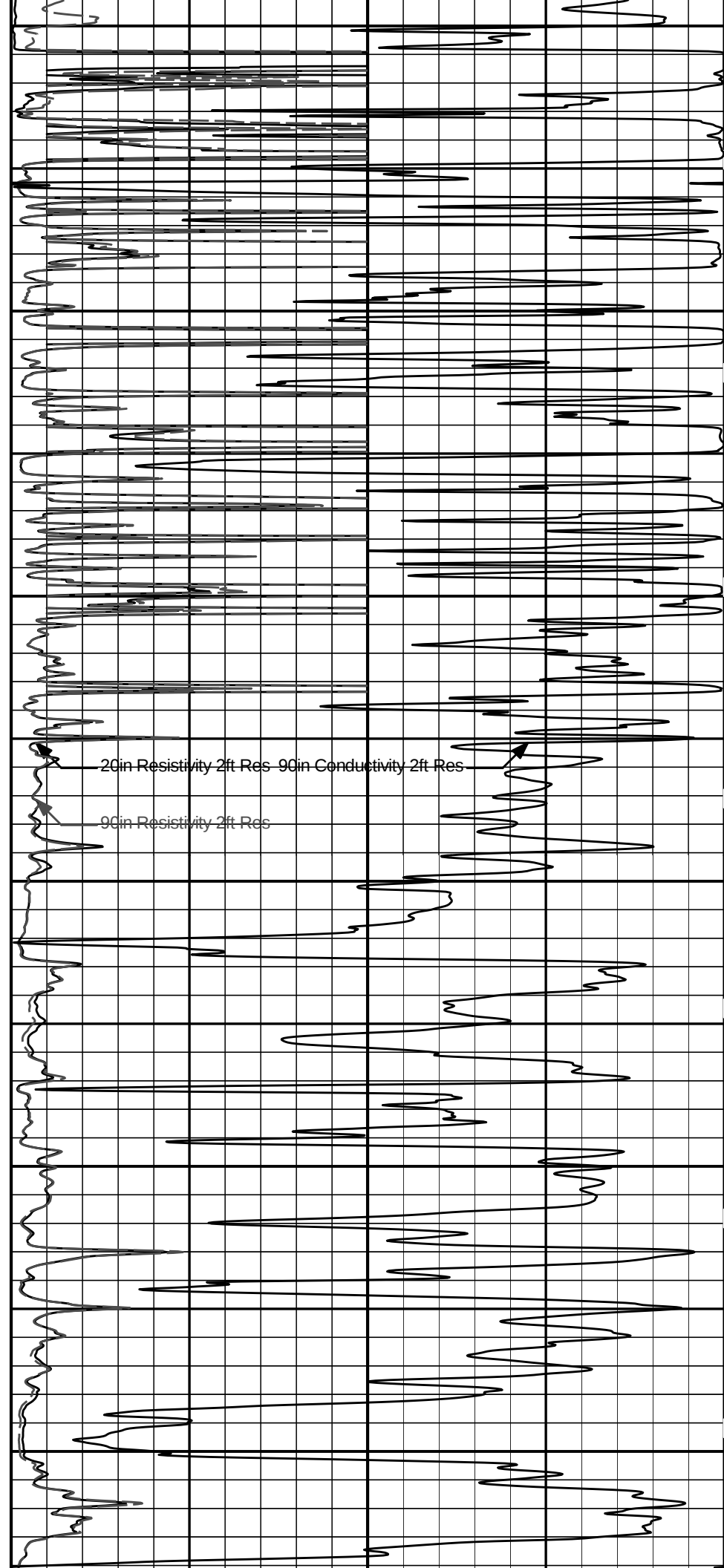
2300

2400

2500

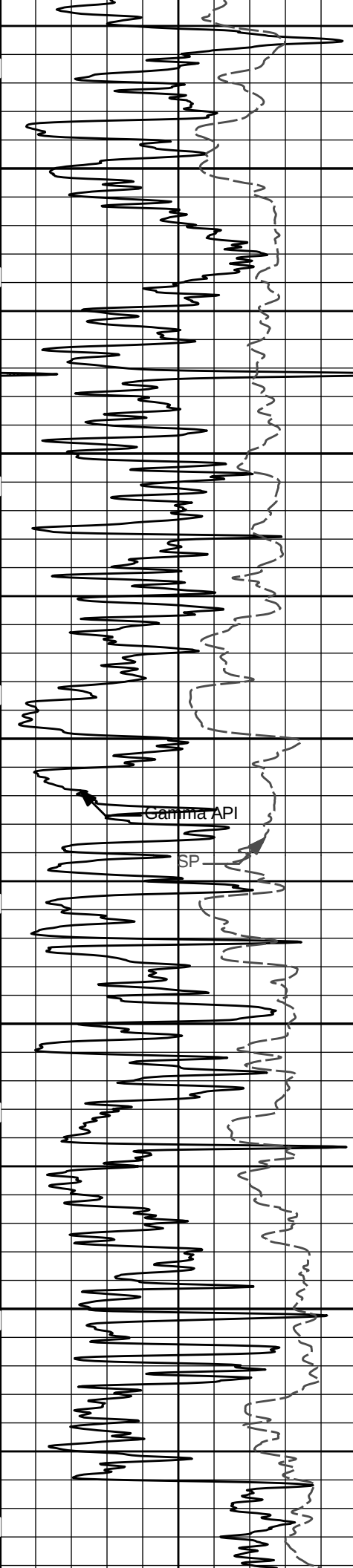
Gamma API

SP



20in Resistivity 2ft Res 90in Conductivity 2ft Res

90in Resistivity 2ft Res



2600

2700

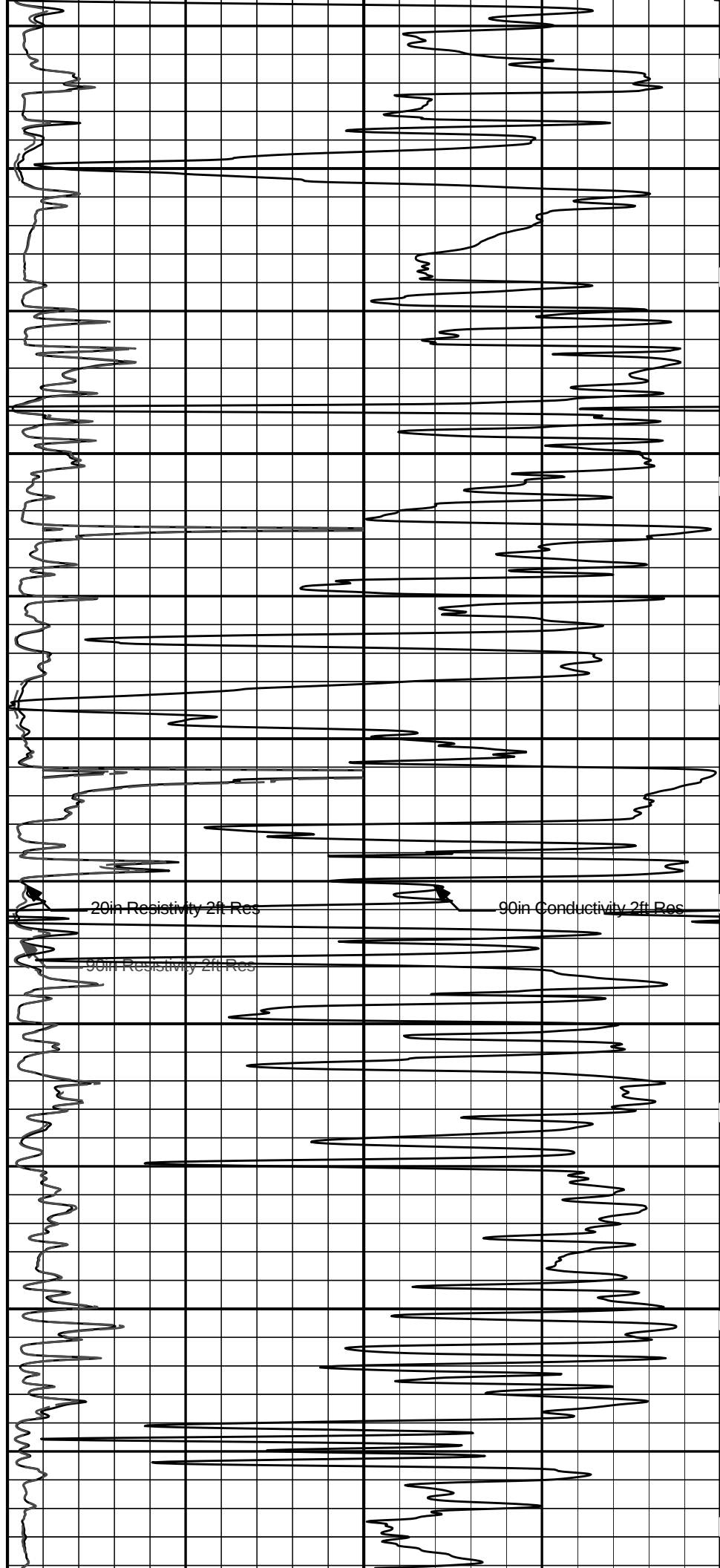
2800

2900

3000

Gamma API

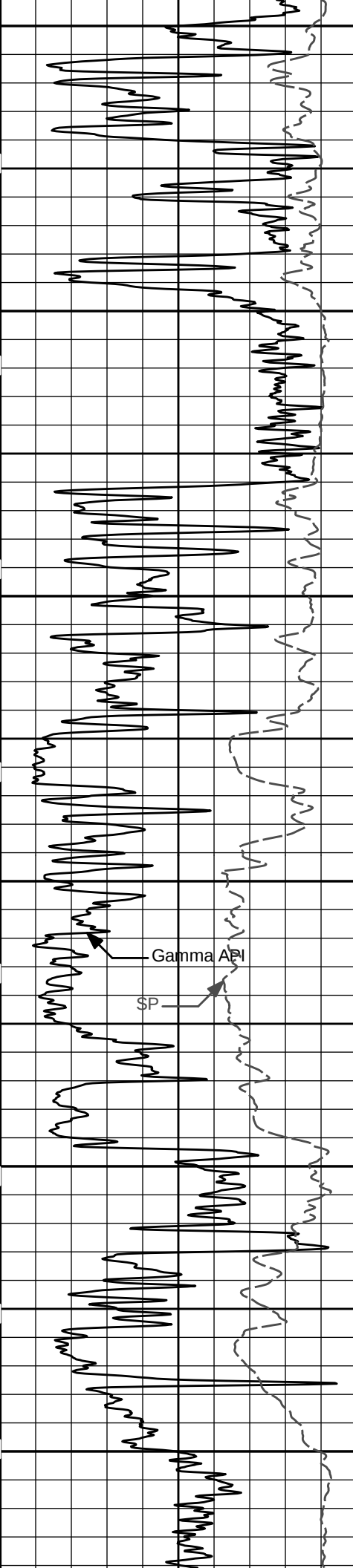
SP



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



3100

3200

3300

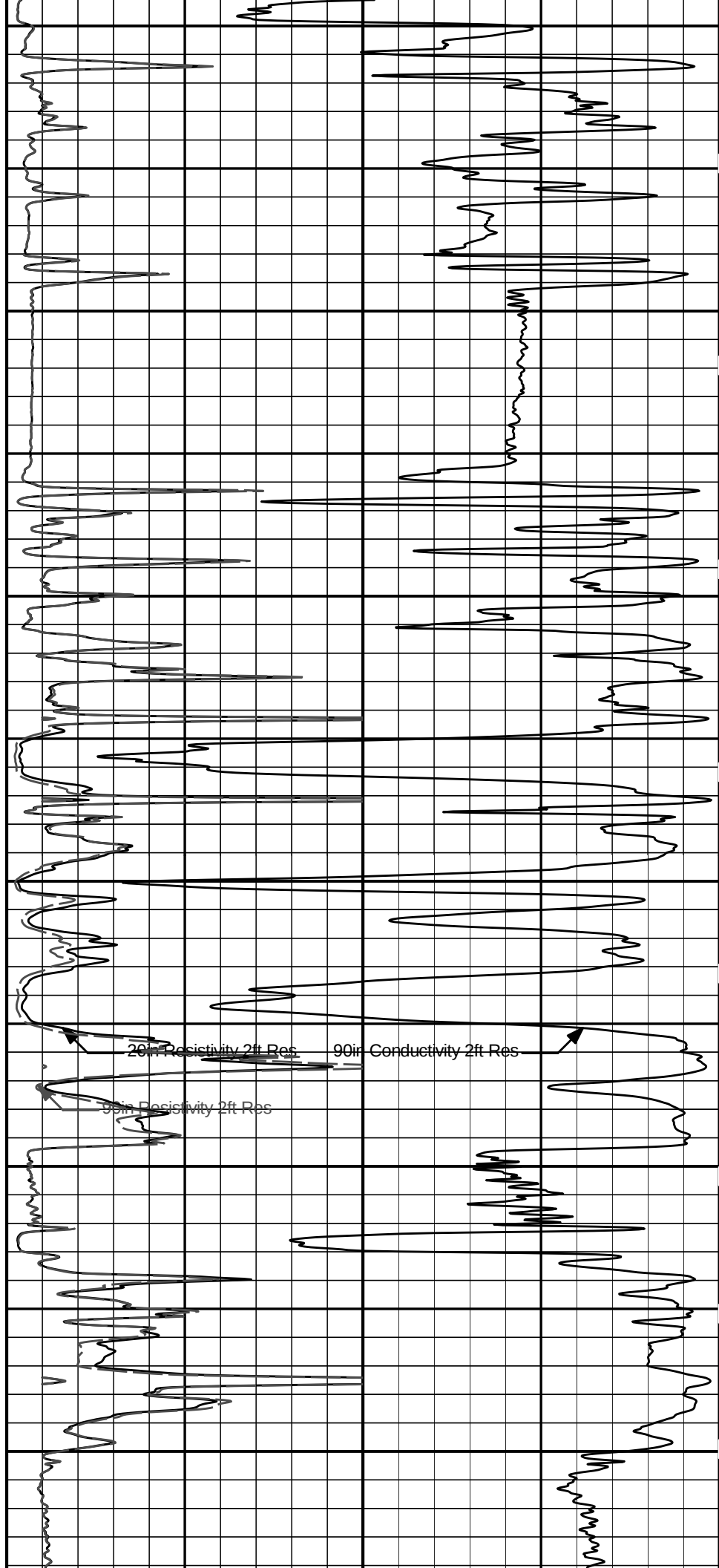
3400

3500

3600

Gamma API

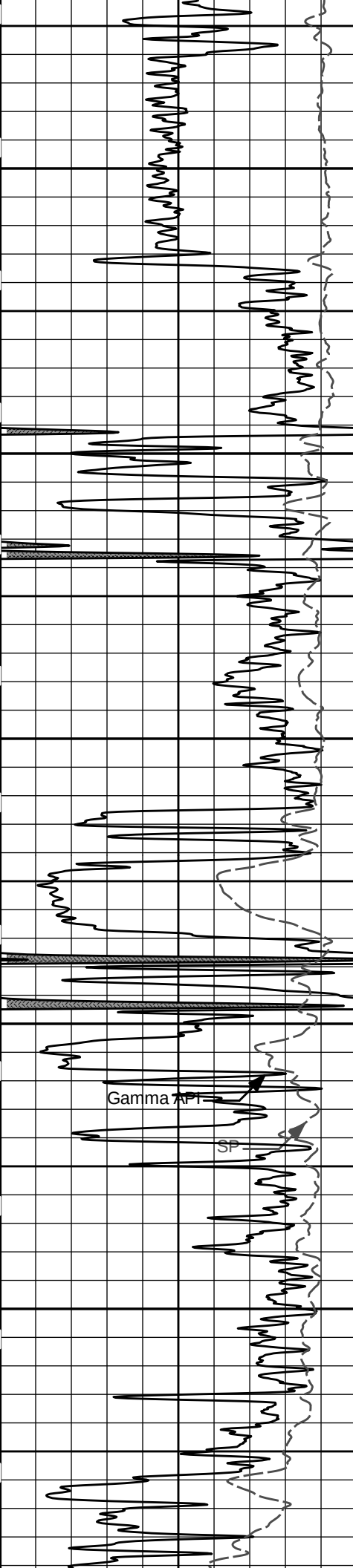
SP



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



3700

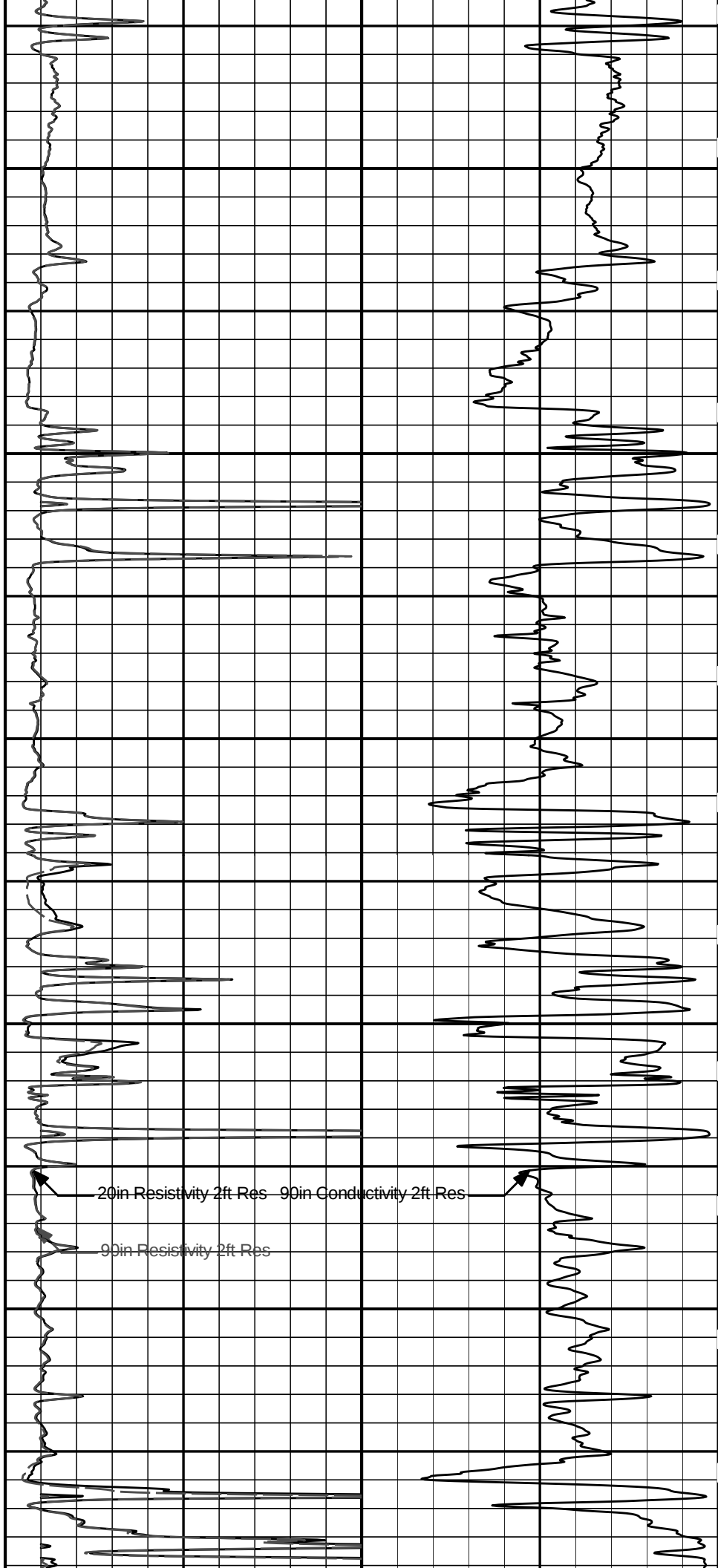
3800

3900

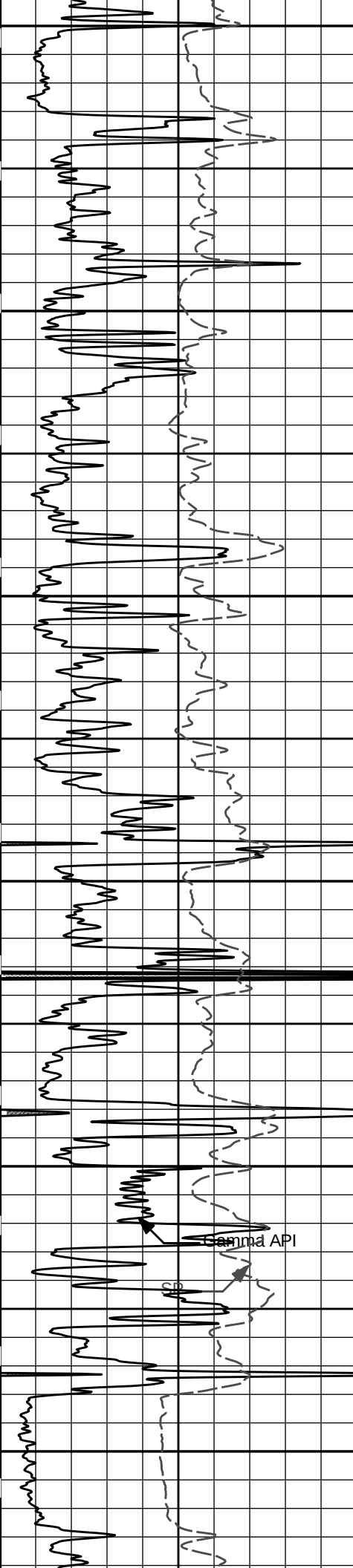
4000

4100

Gamma Ray
API
SP



20in Resistivity 2ft Res 99in Conductivity 2ft Res
99in Resistivity 2ft Res



4200

4300

4400

4500

4600

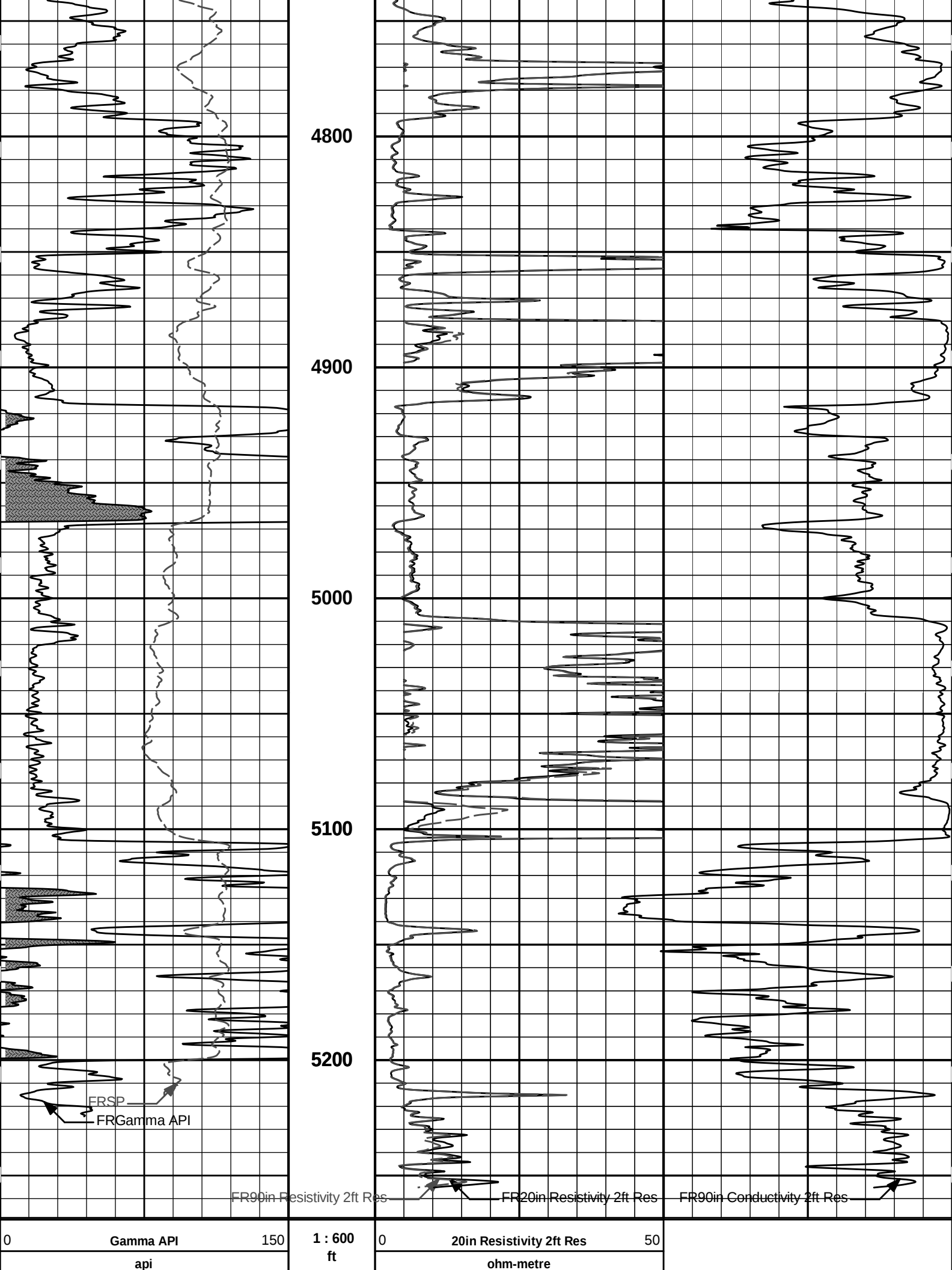
4700

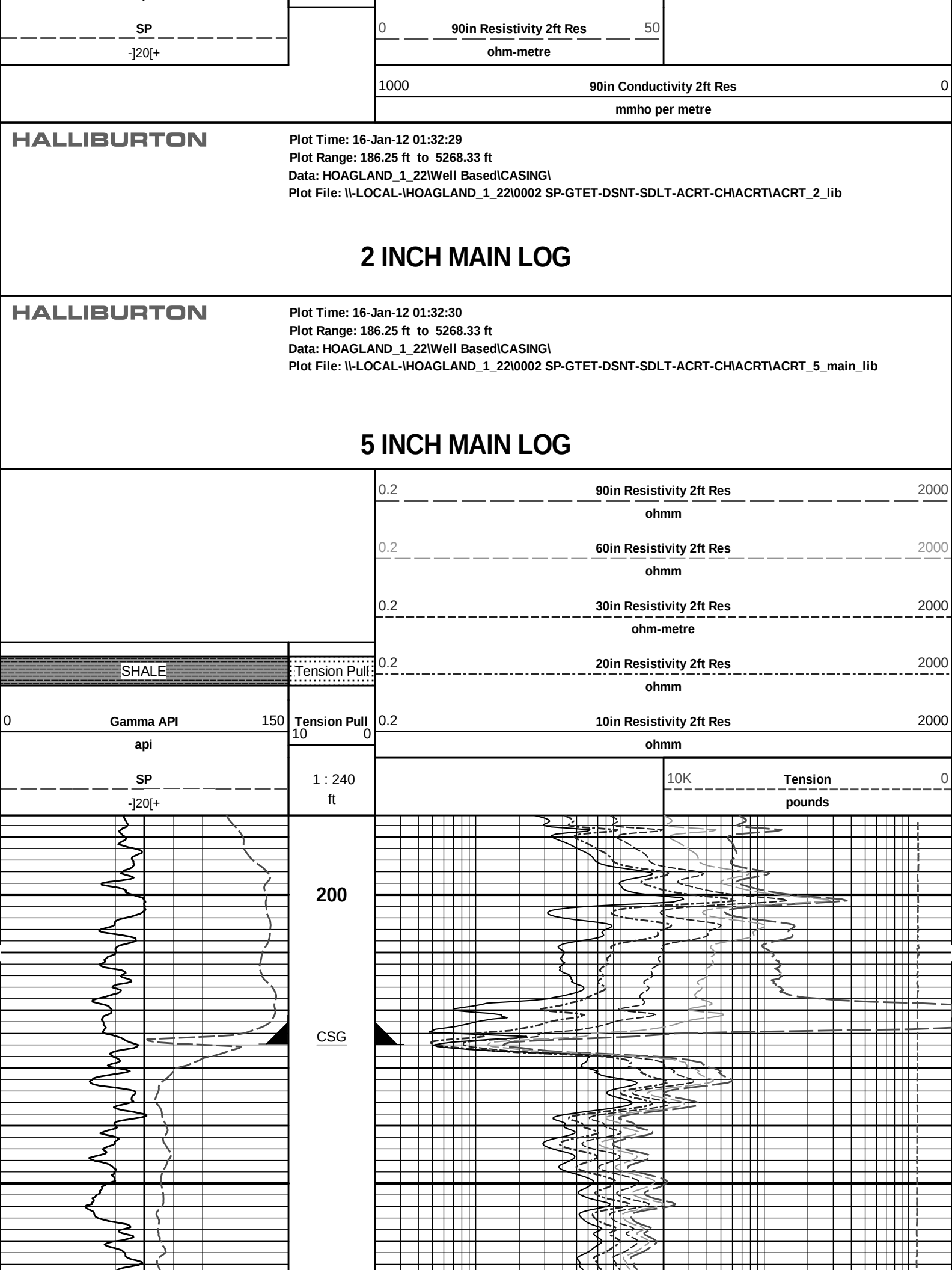
Gamma API

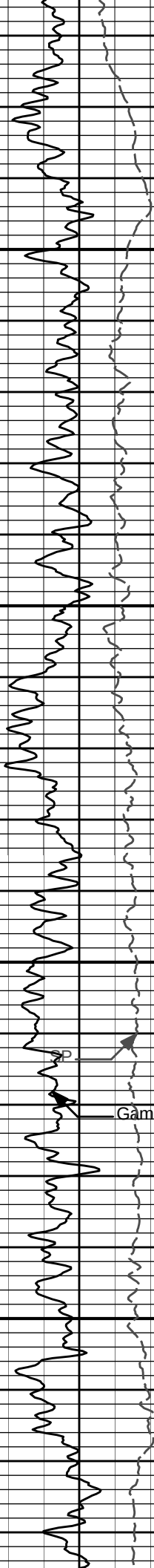
20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



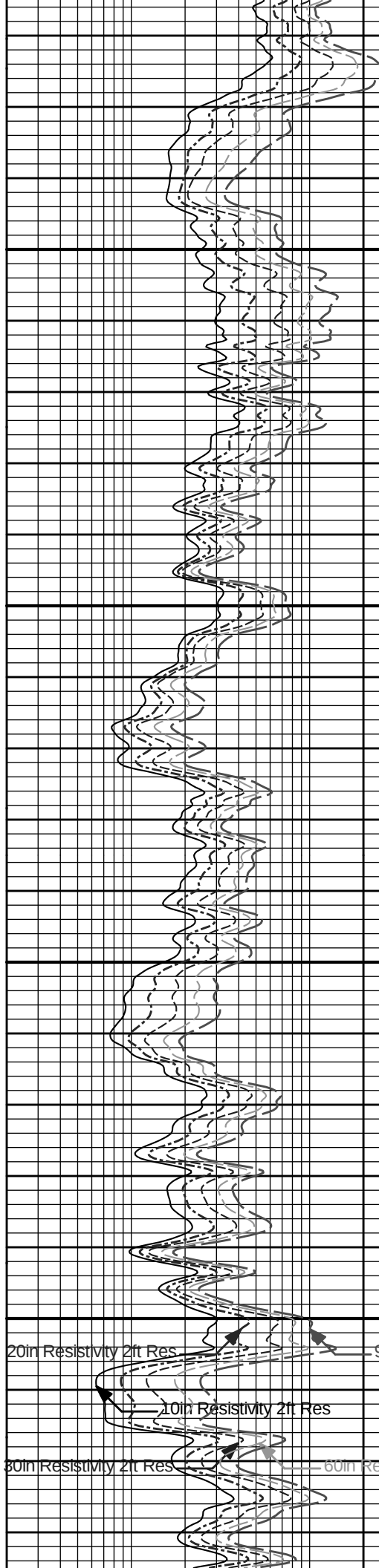




Gamma API

300

400



20in Resistivity 2ft Res

10in Resistivity 2ft Res

30in Resistivity 2ft Res

90in Resistivity 2ft Res

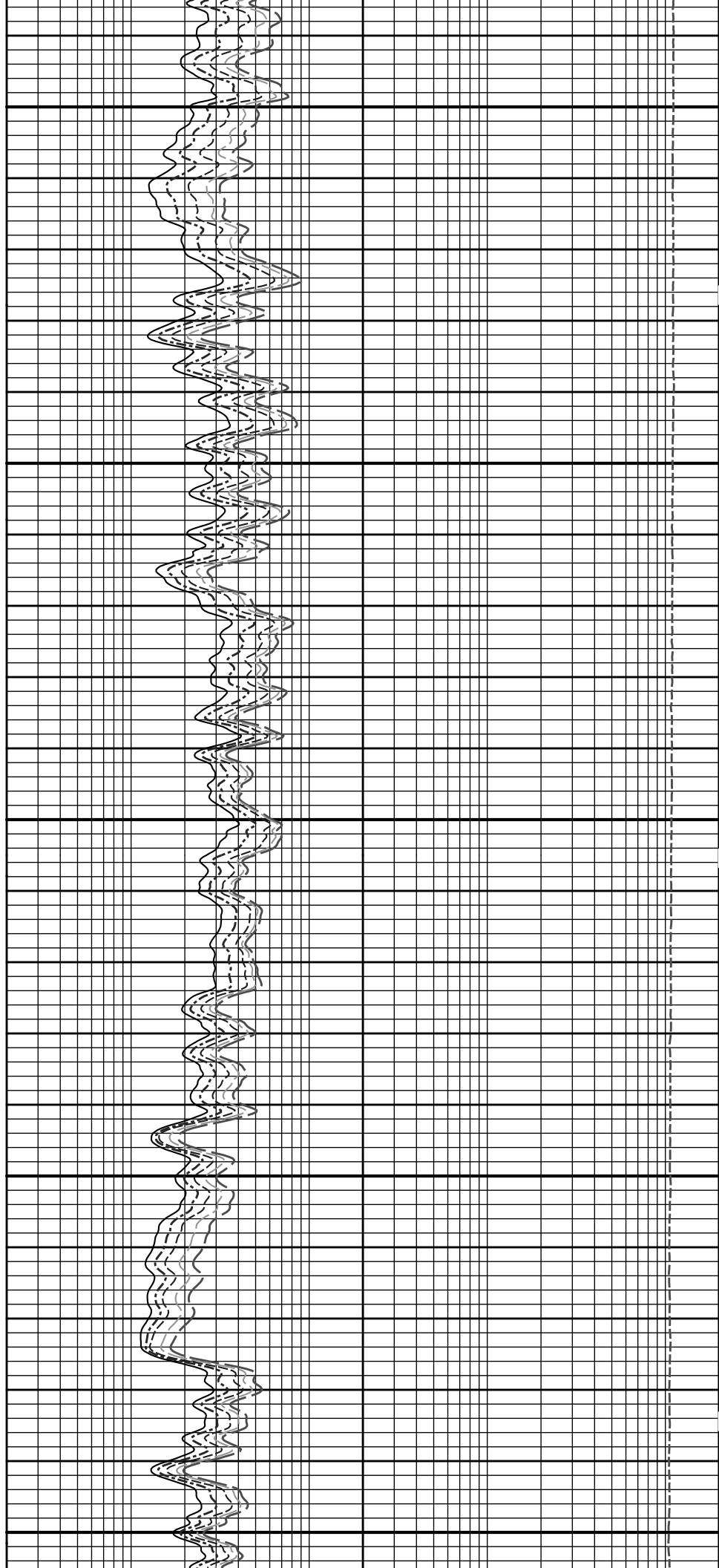
60in Resistivity 2ft Res

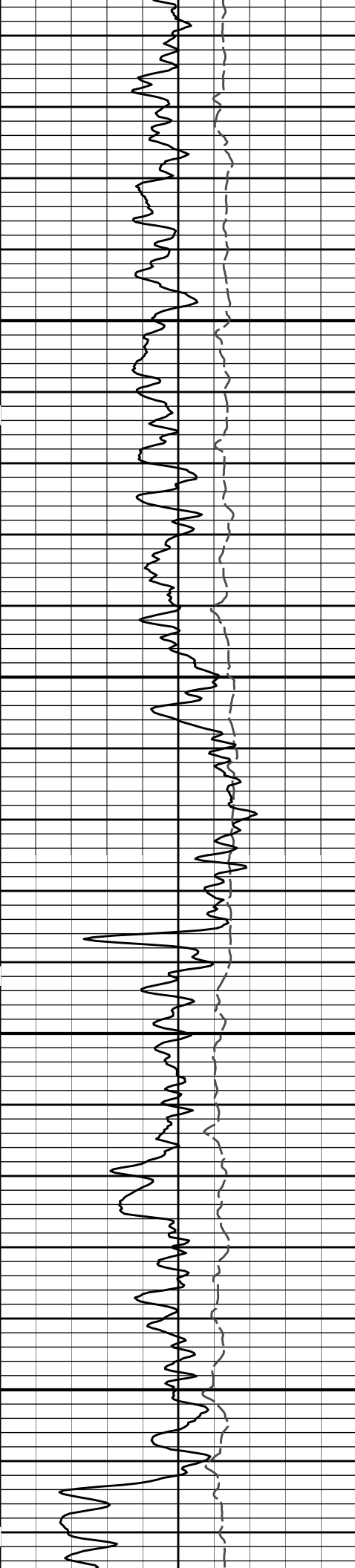


500

600

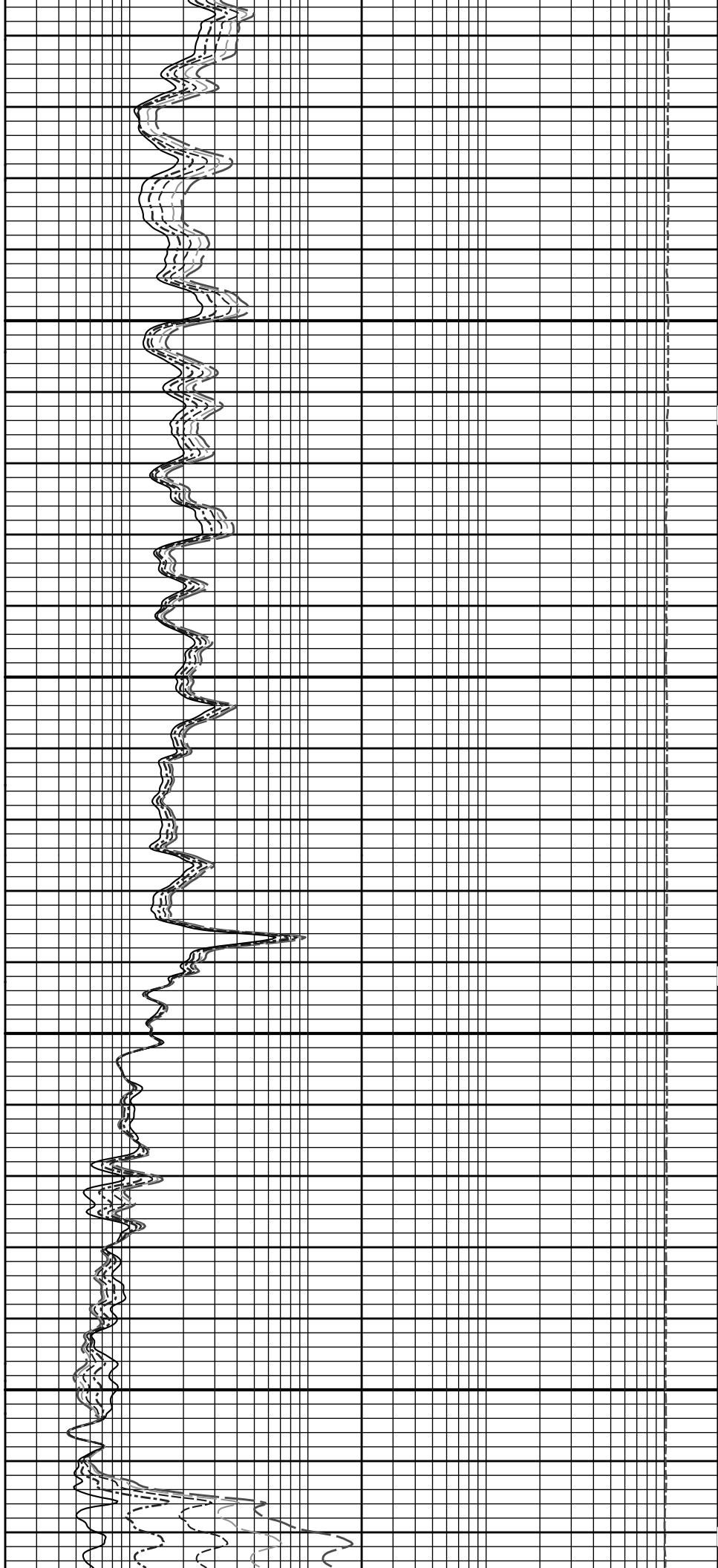
700

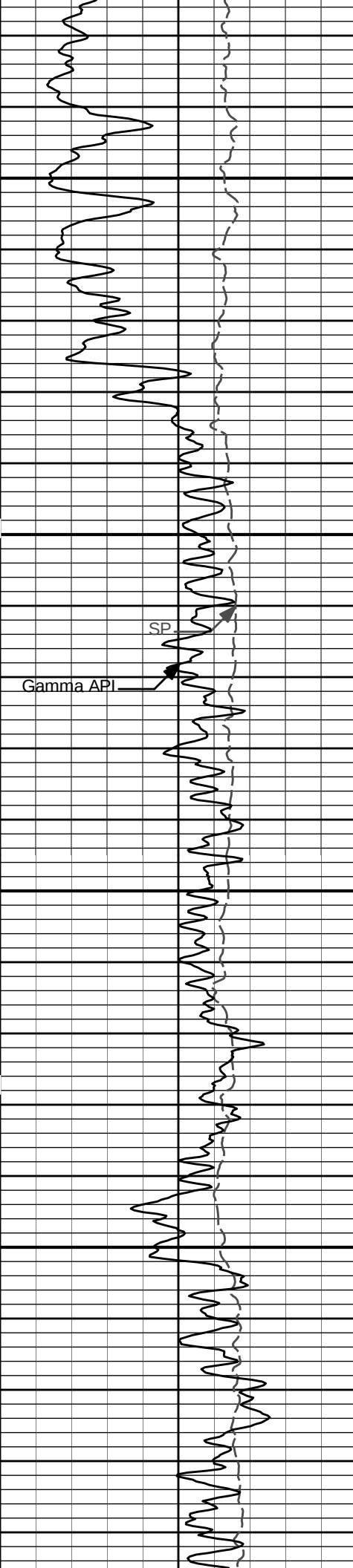




800

900



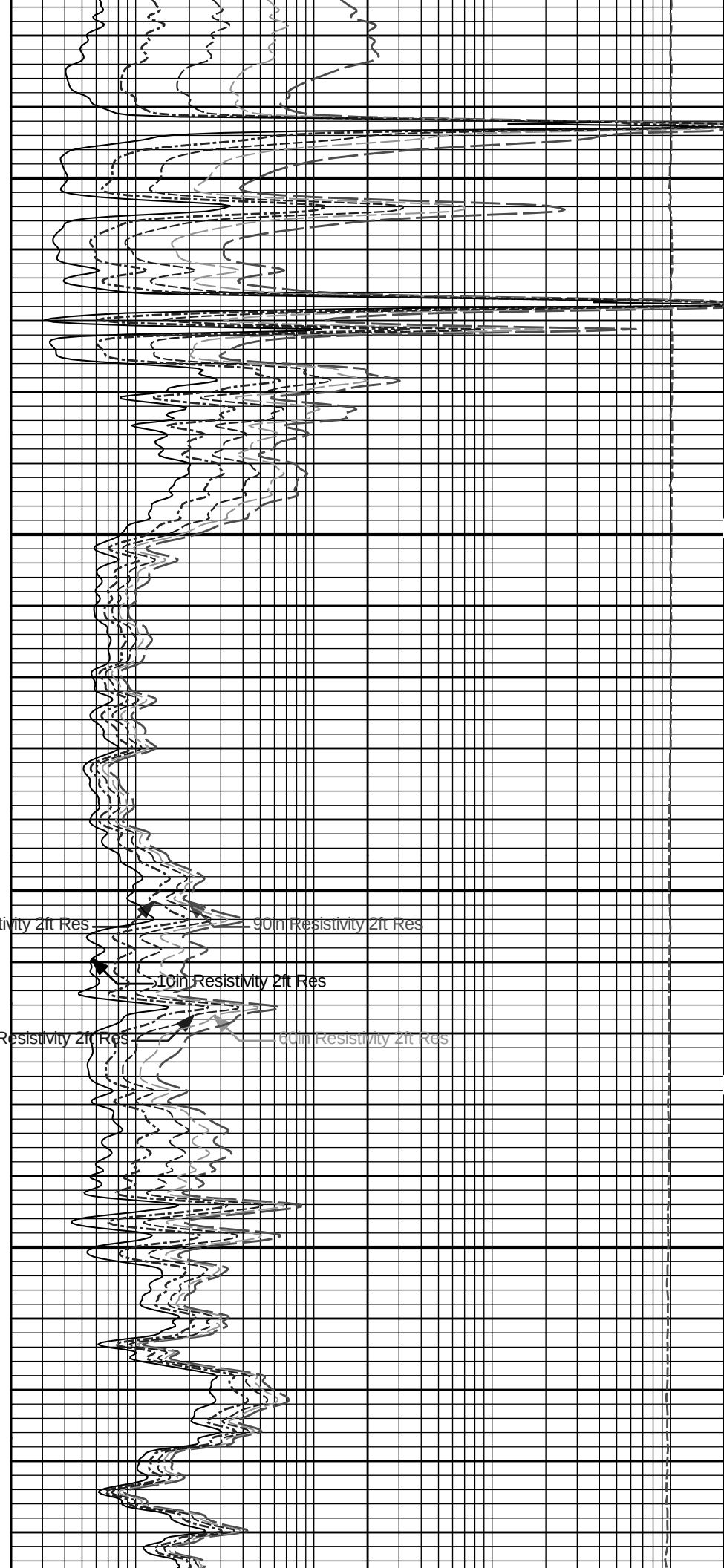


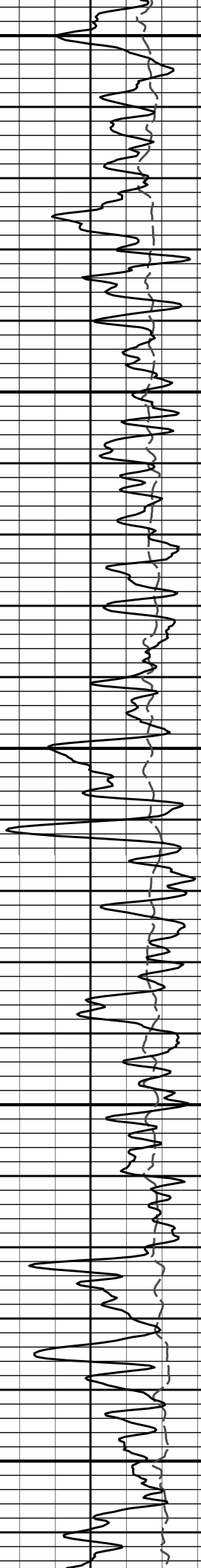
1000

20in Resistivity 2ft Res

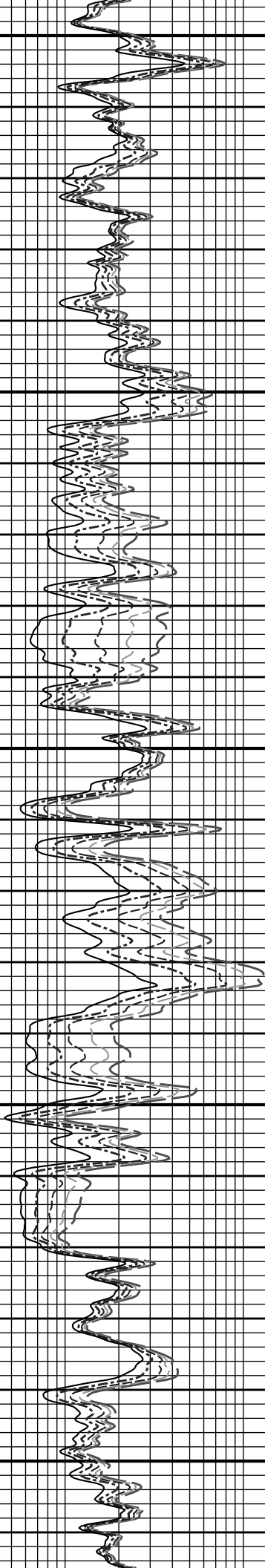
30in Resistivity 2ft Res

1100





1200

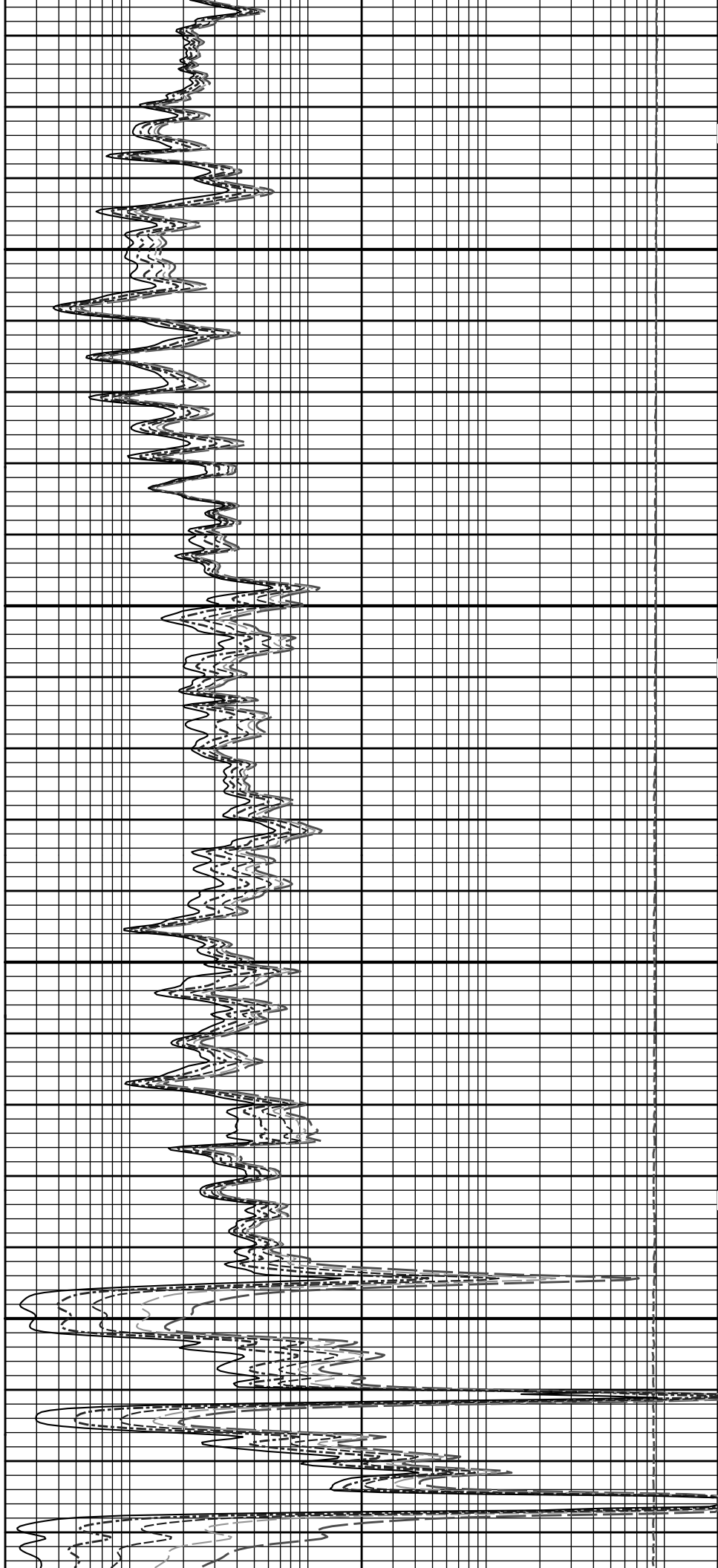


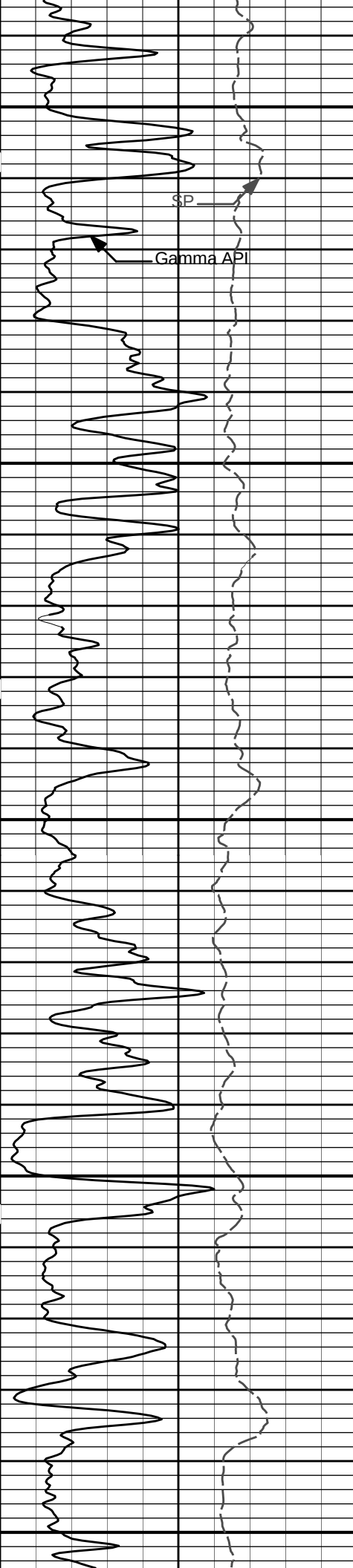
1300



1400

1500





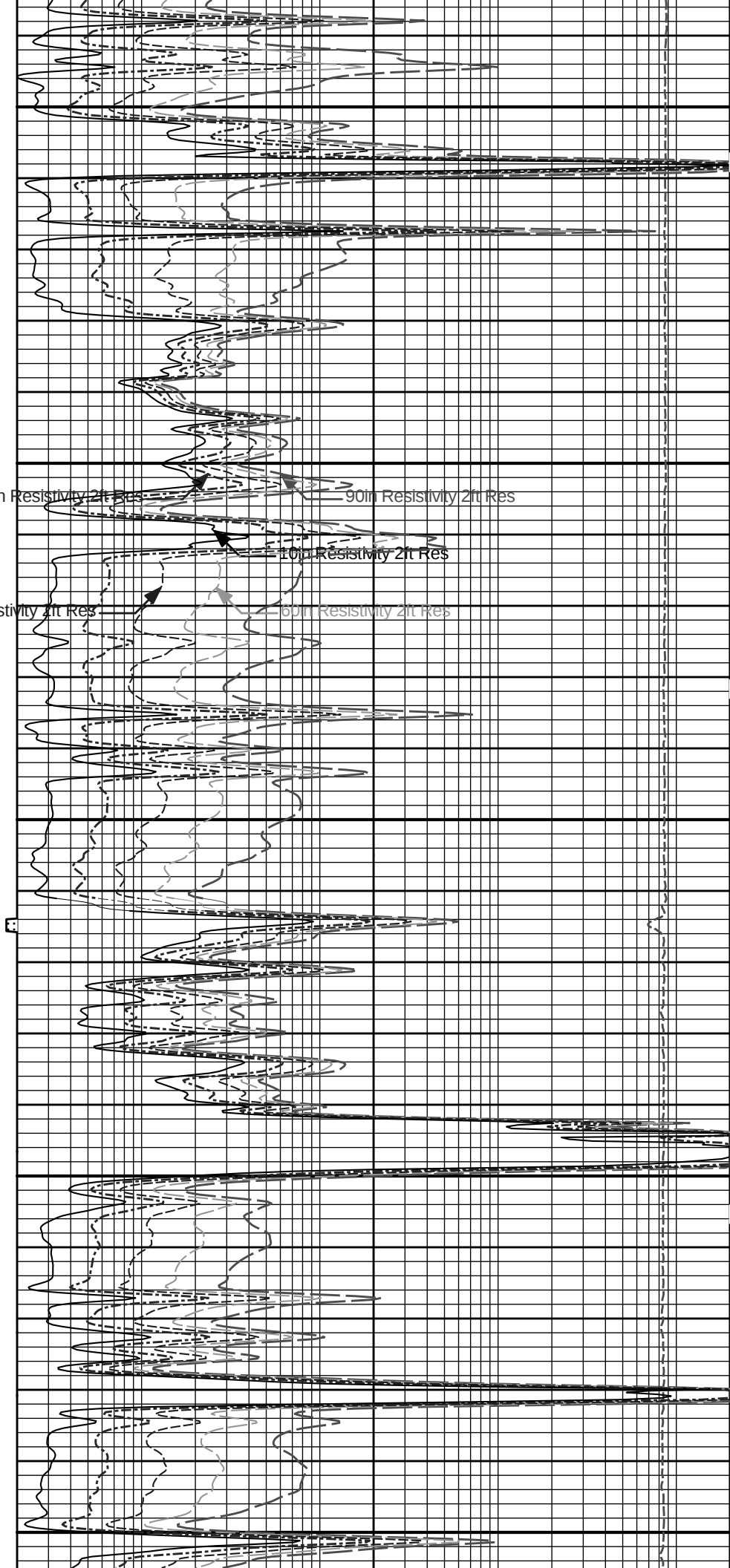
1600

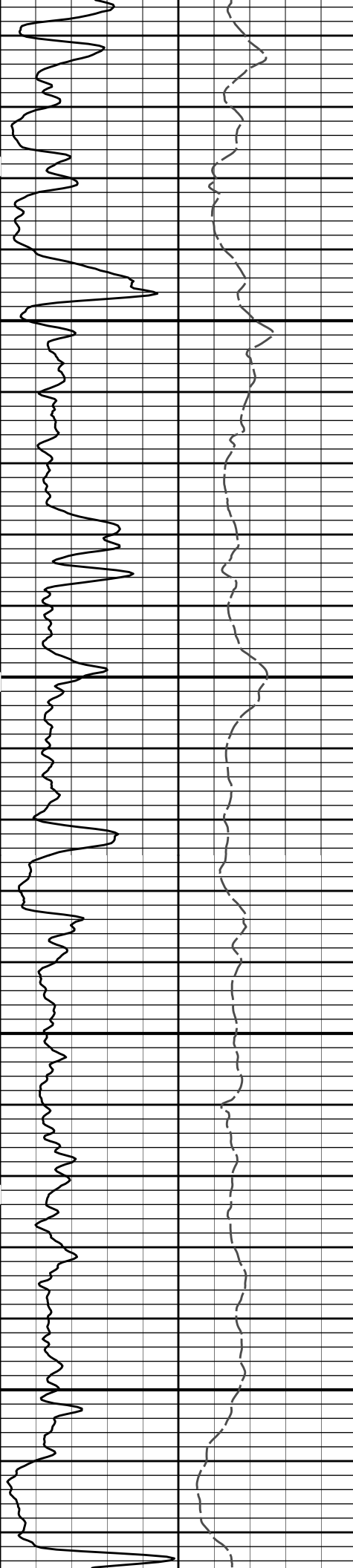
20in Resistivity 2ft Res

30in Resistivity 2ft Res

1700

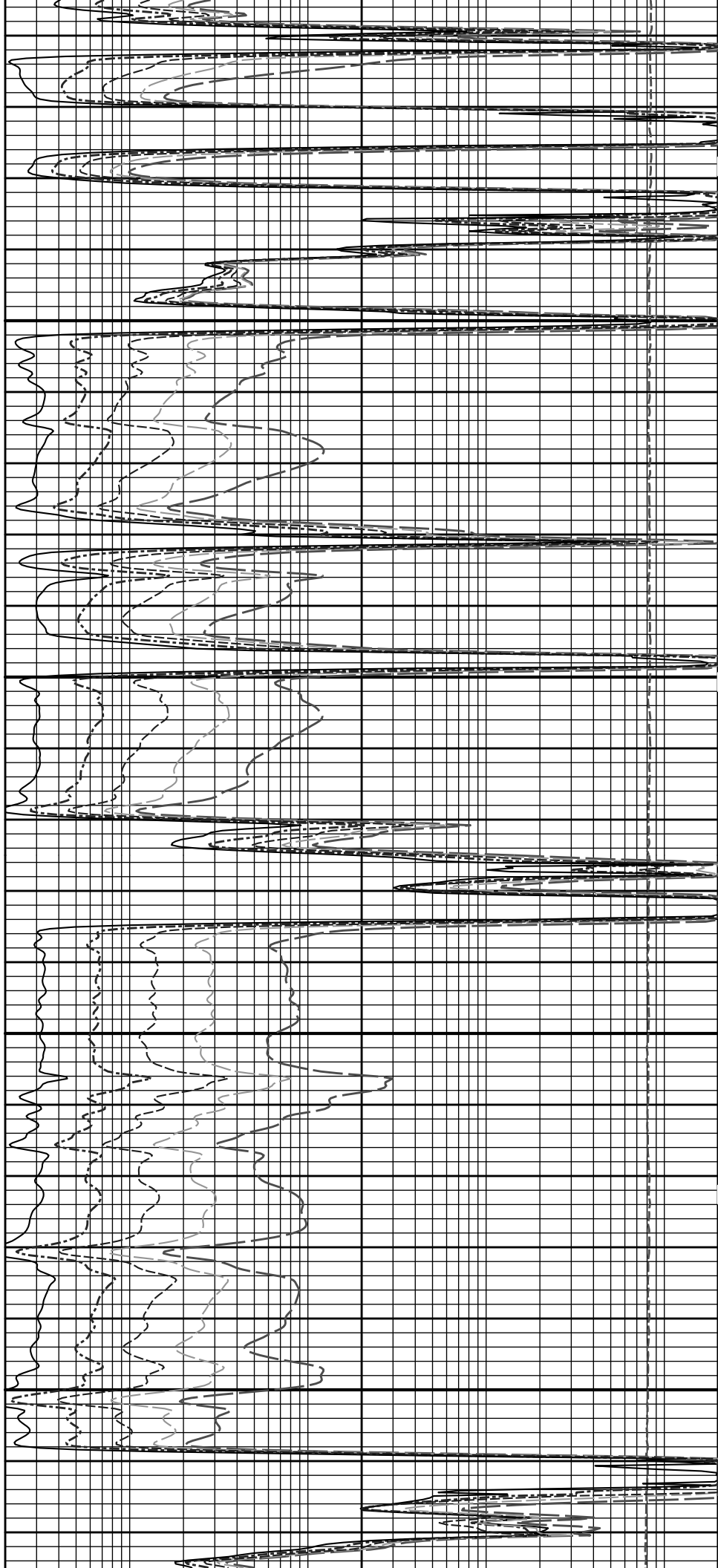
1800

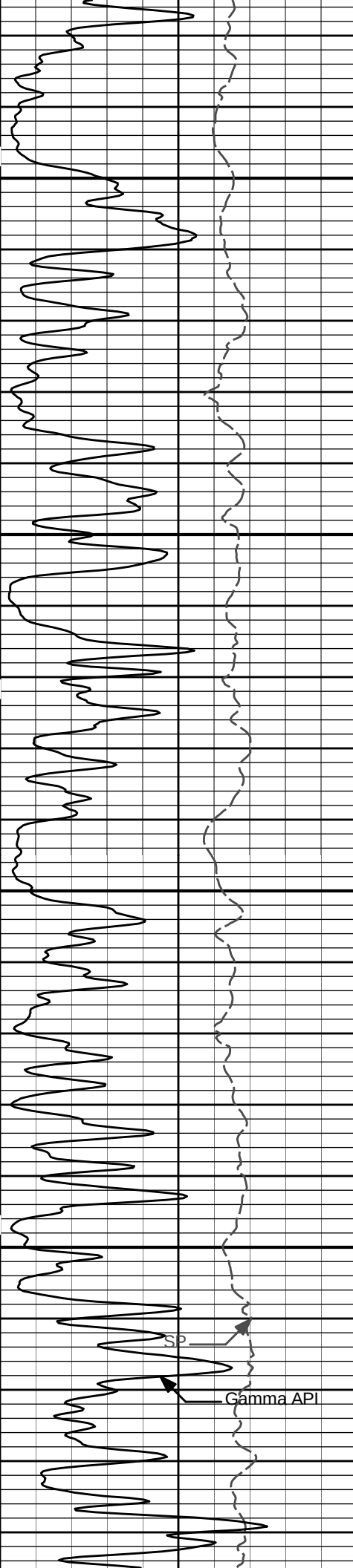




1900

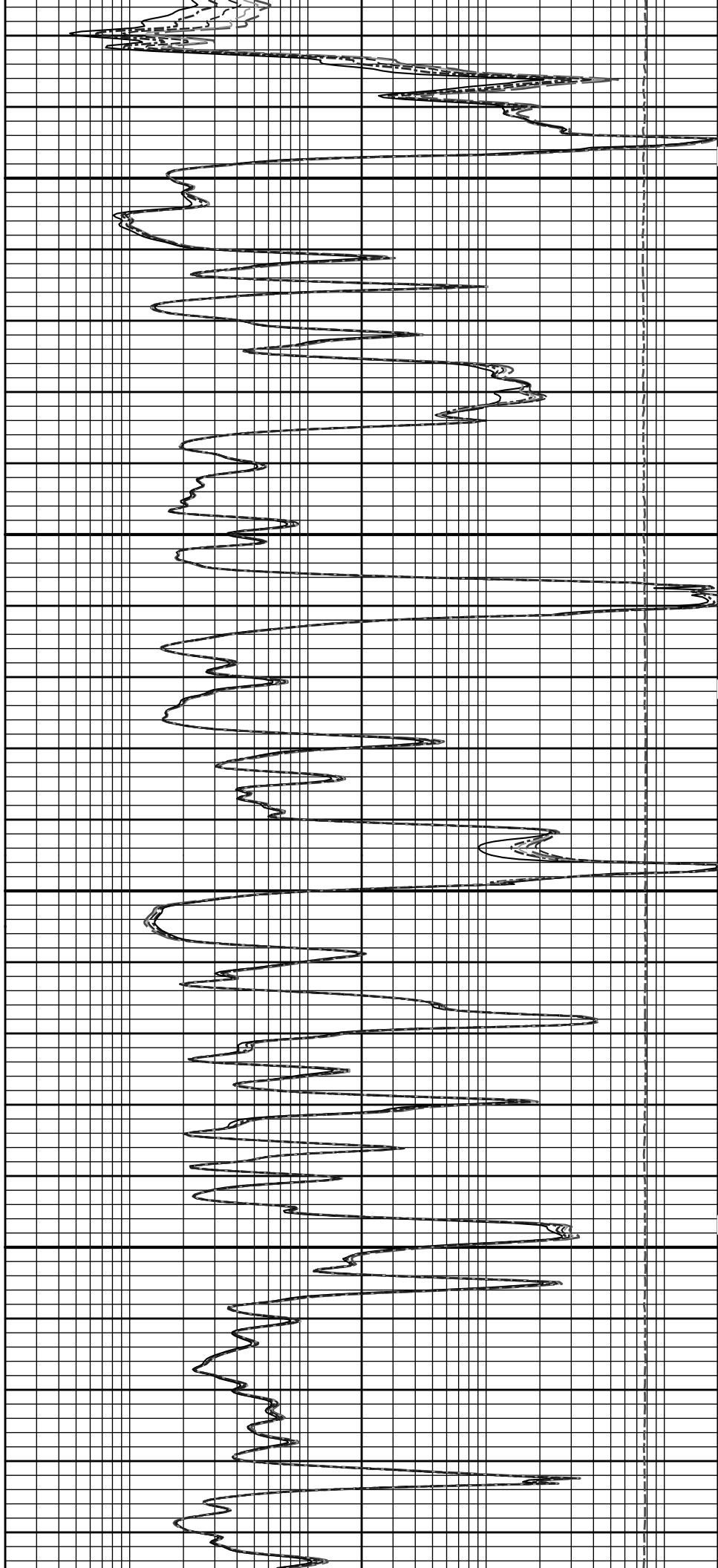
2000

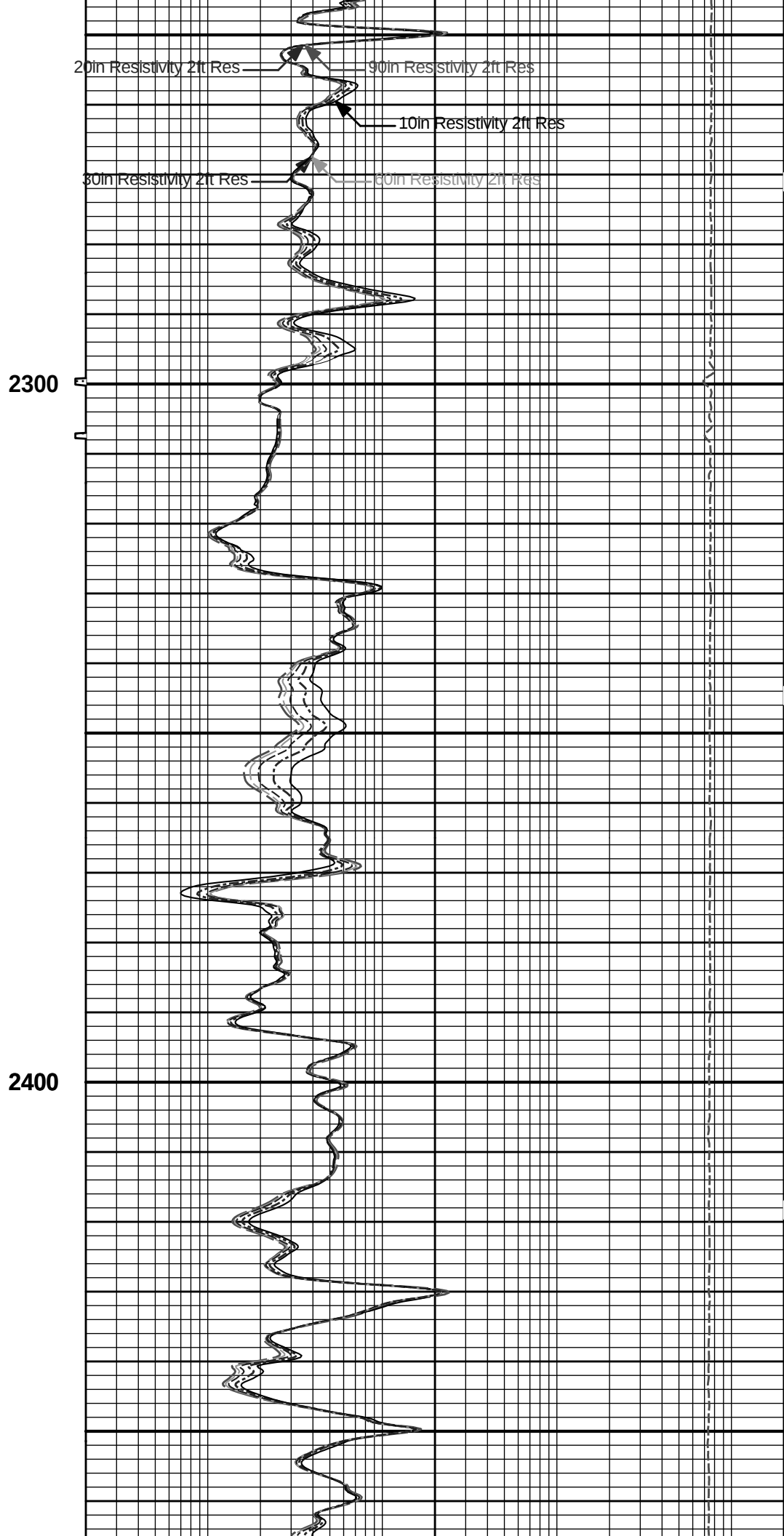
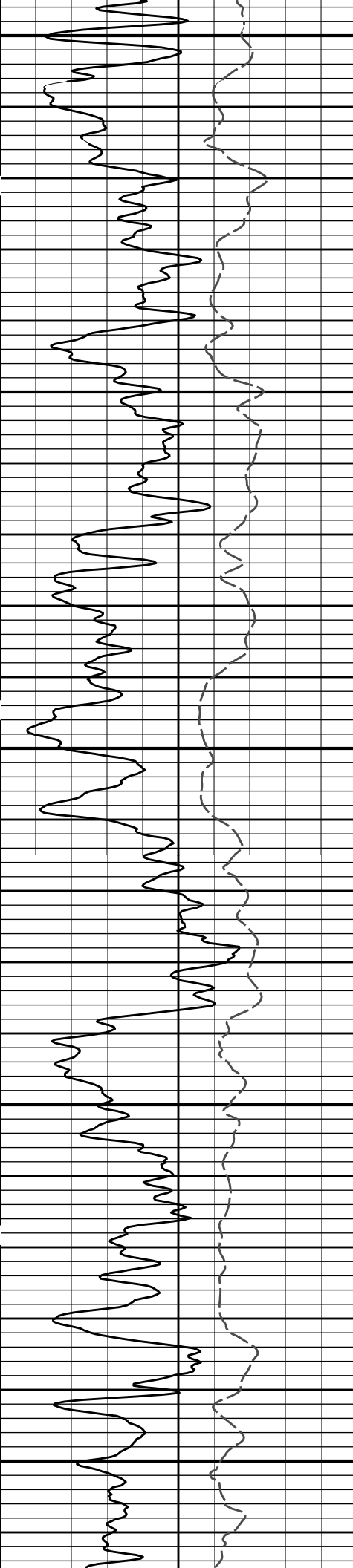


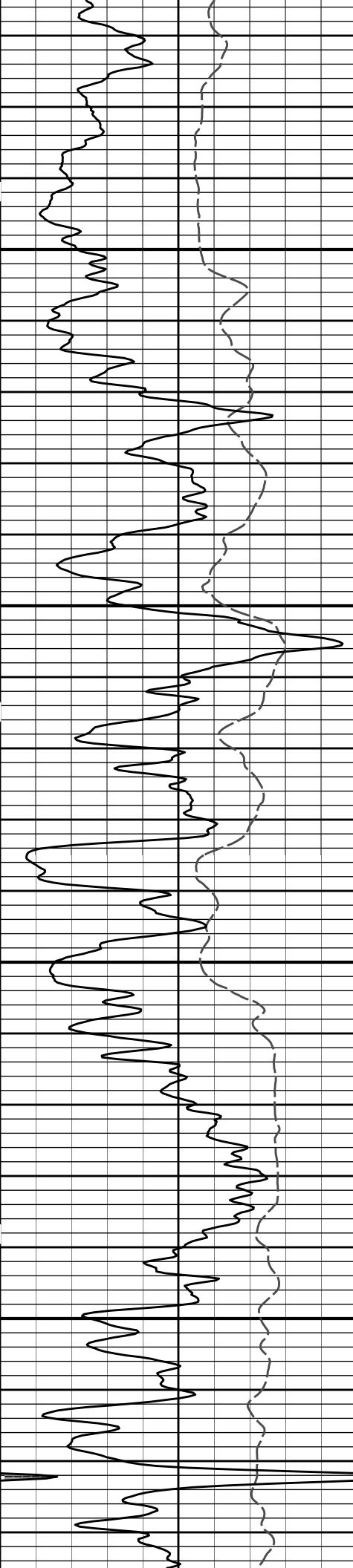


2100

2200

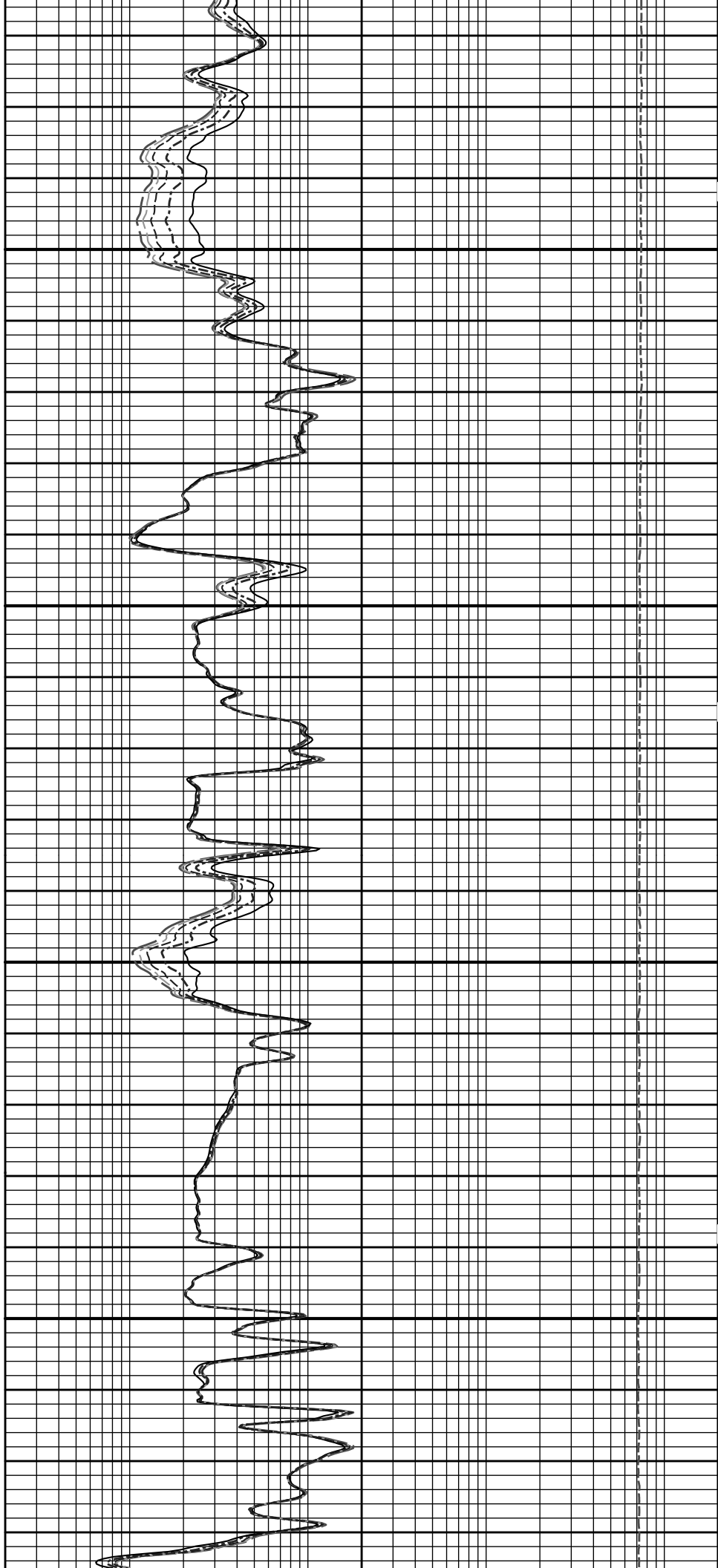


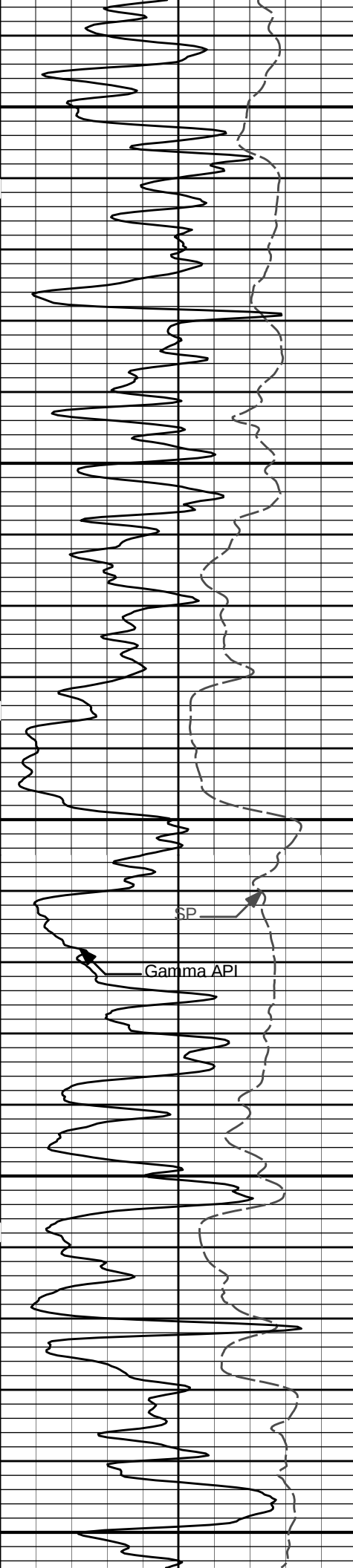




2500

2600





2700

2800

2900

SP

Gamma API

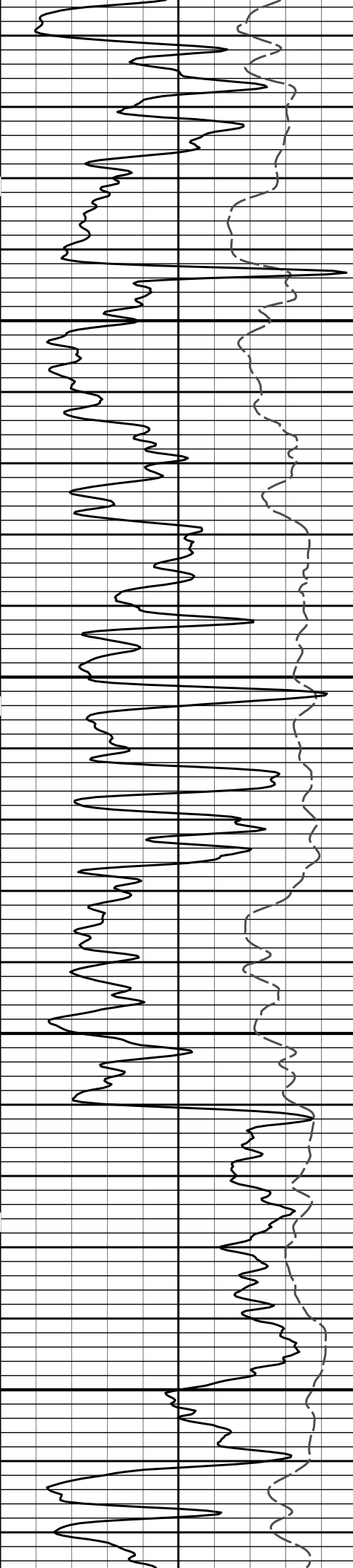
10in Resistivity 2ft Res

30in Resistivity 2ft Res

90in Resistivity 2ft Res

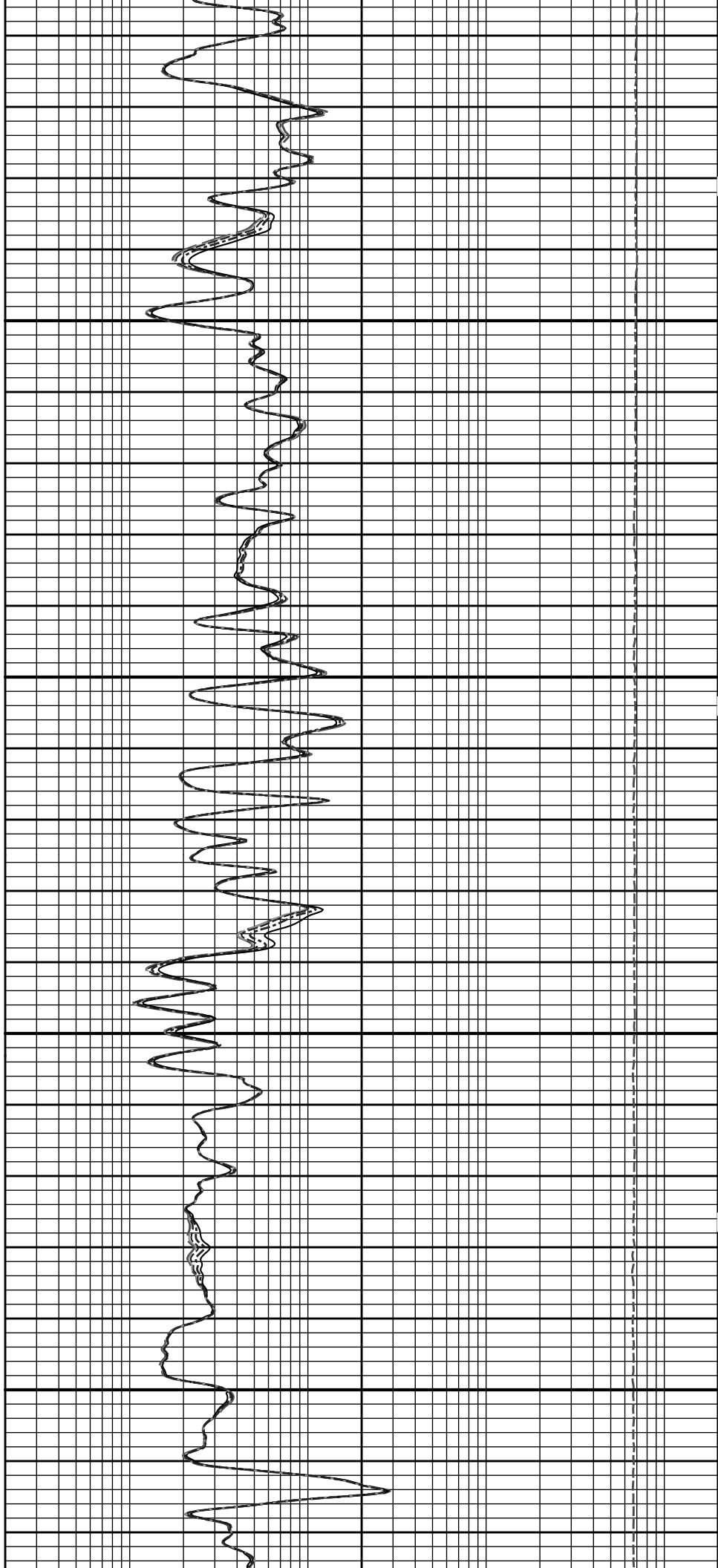
20in Resistivity 2ft Res

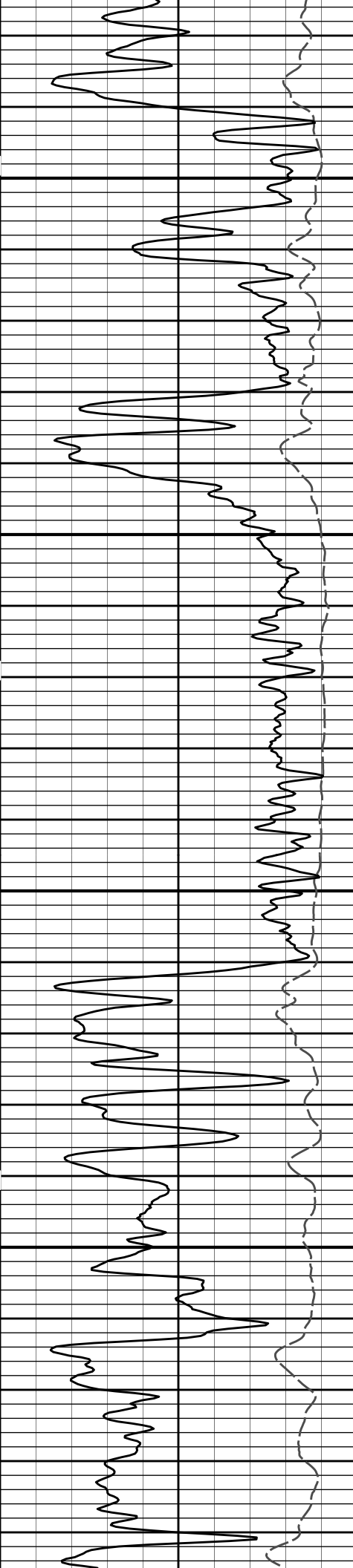
60in Resistivity 2ft Res



3000

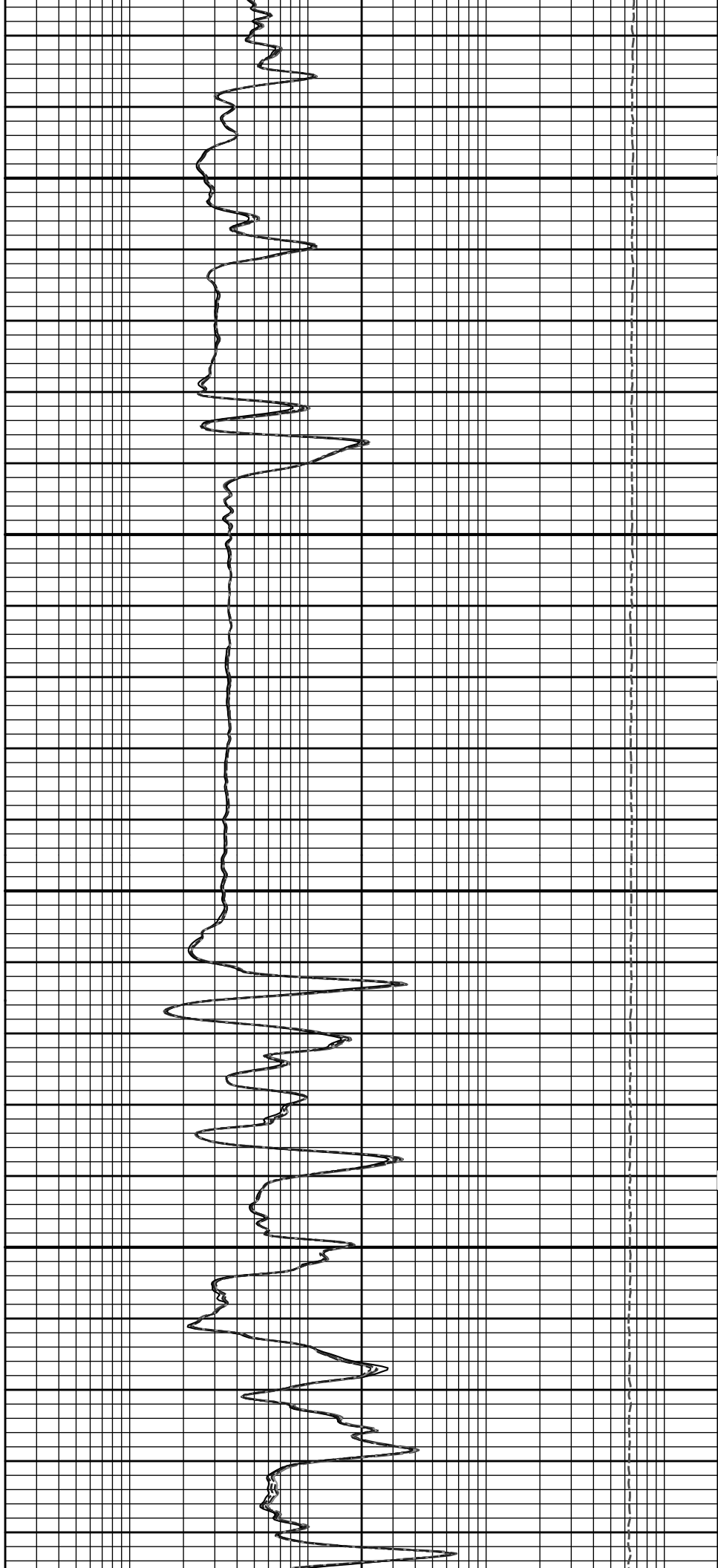
3100

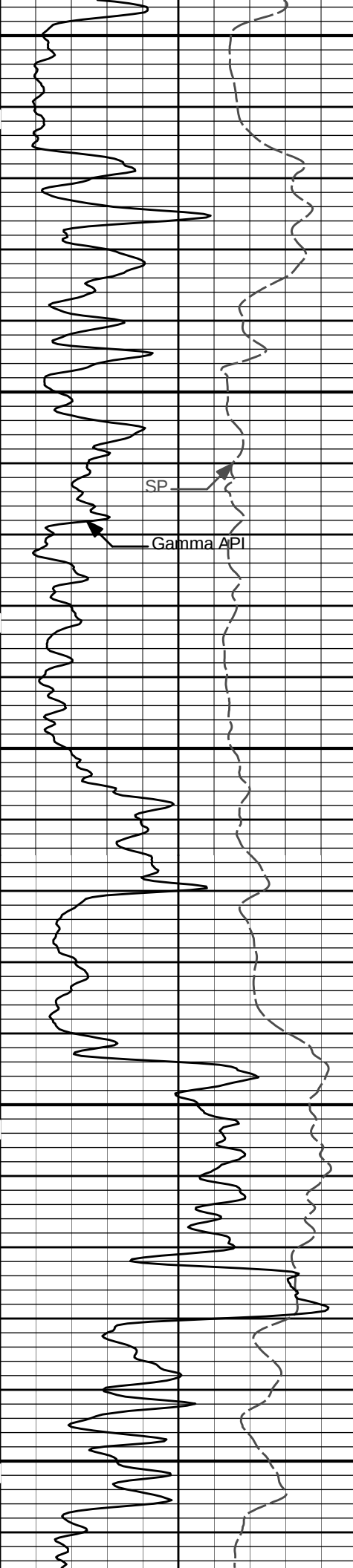




3200

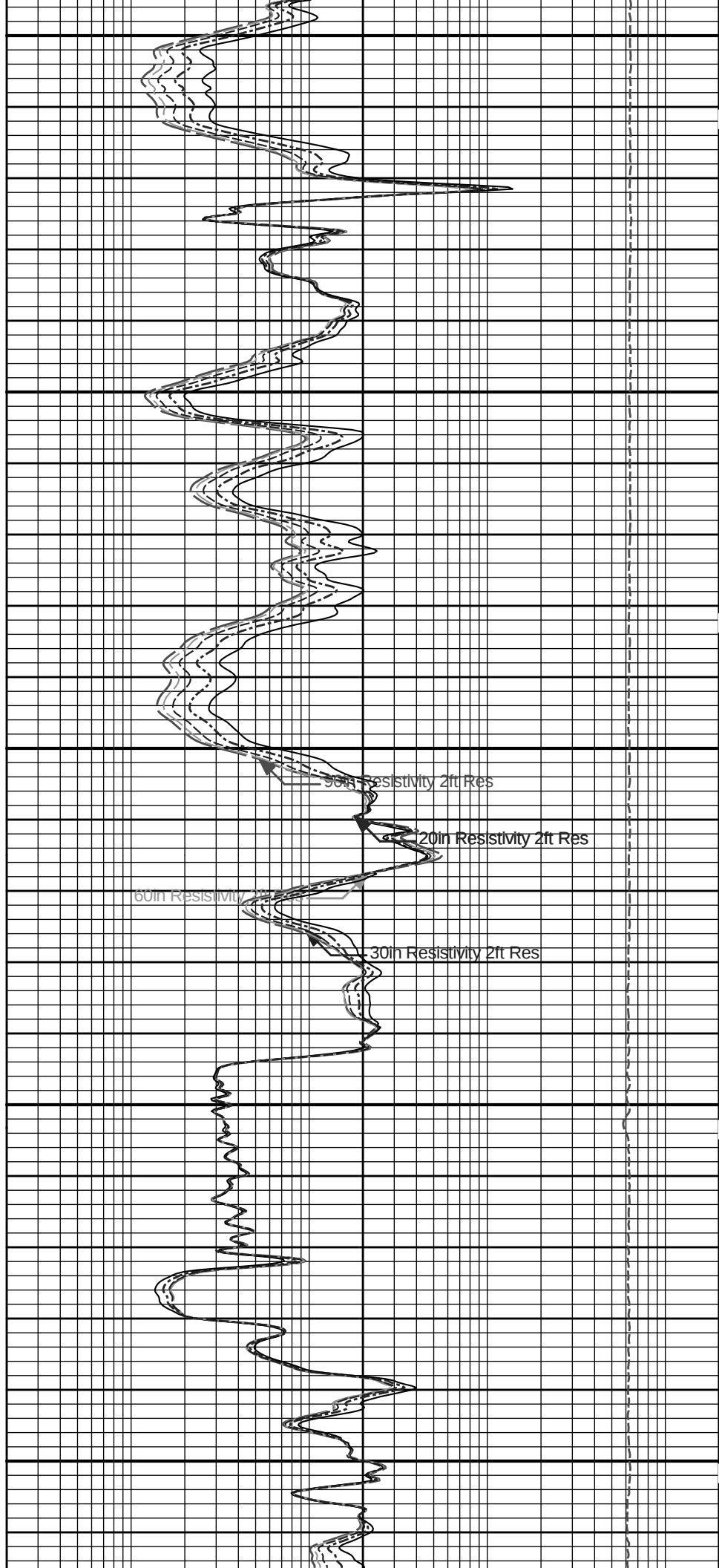
3300





3400

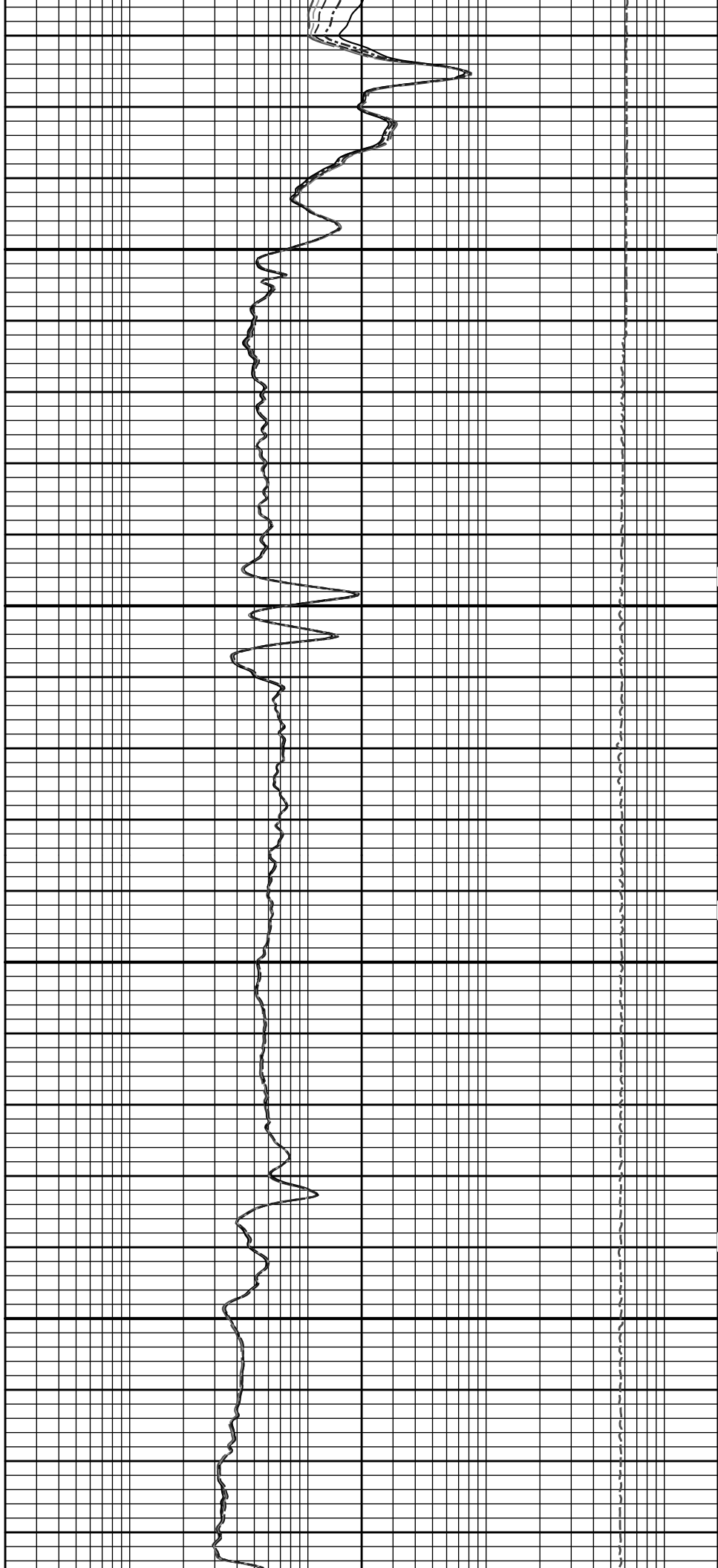
3500

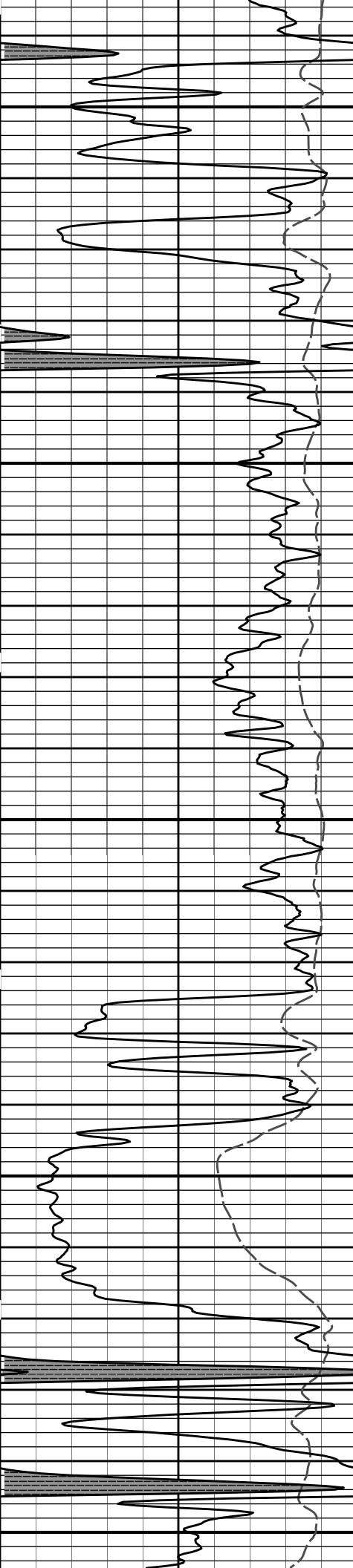




3600

3700

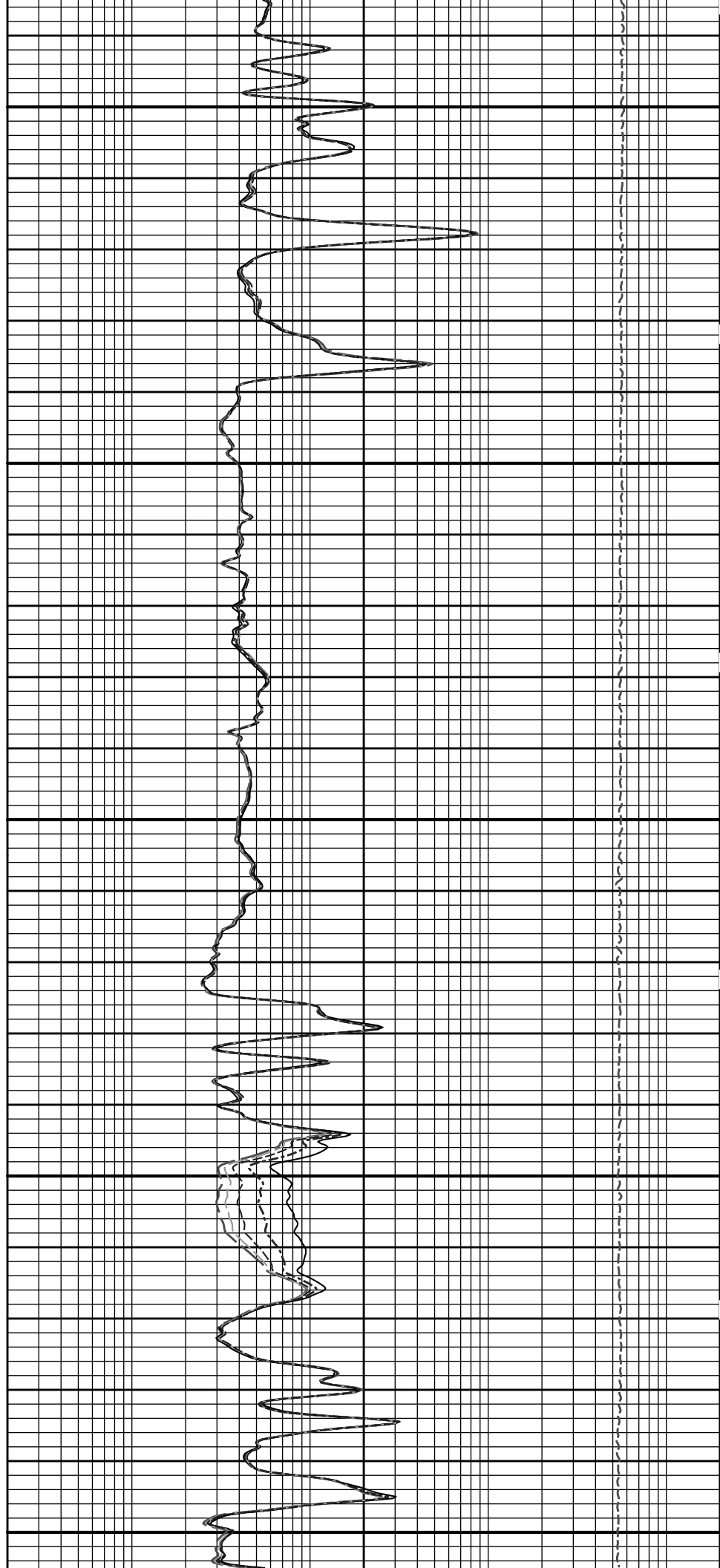


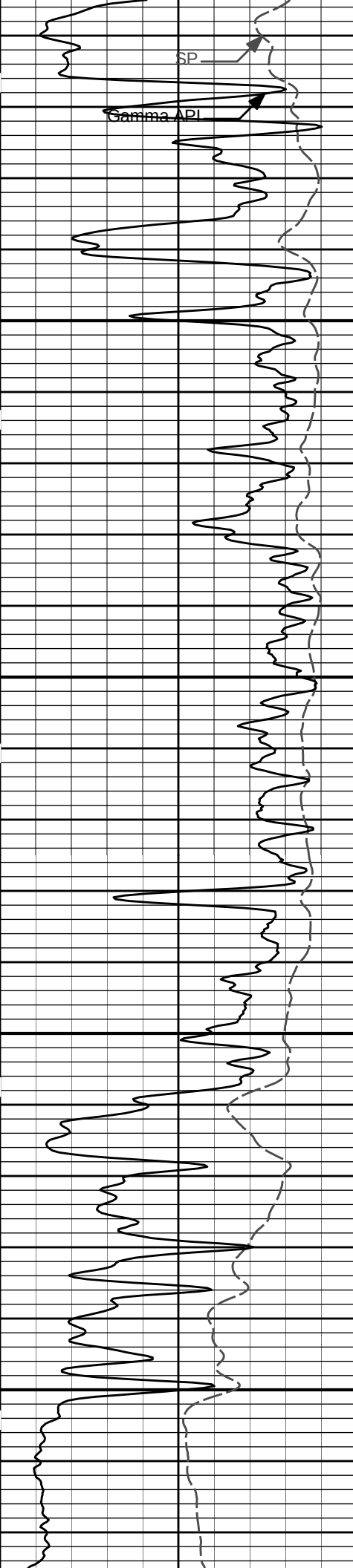


3800

3900

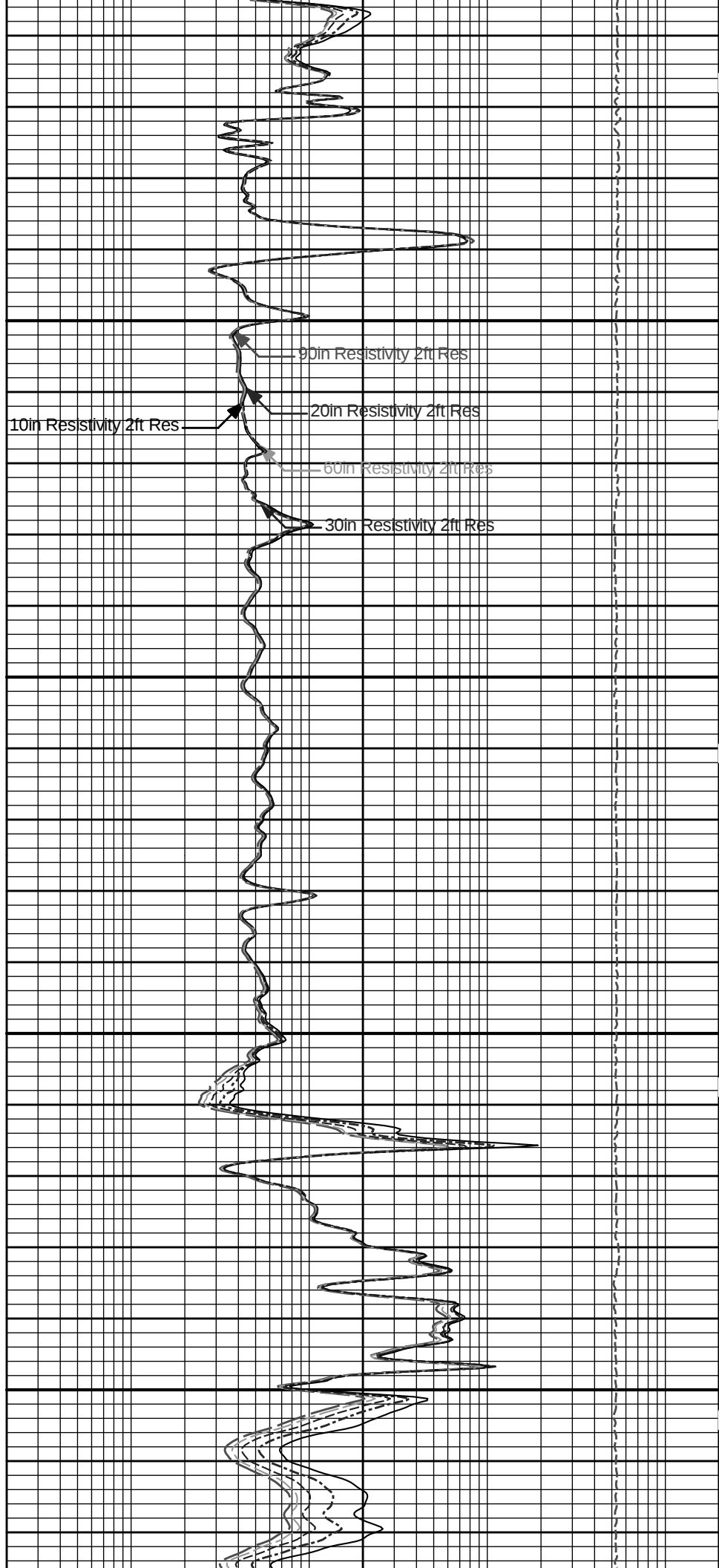
4000

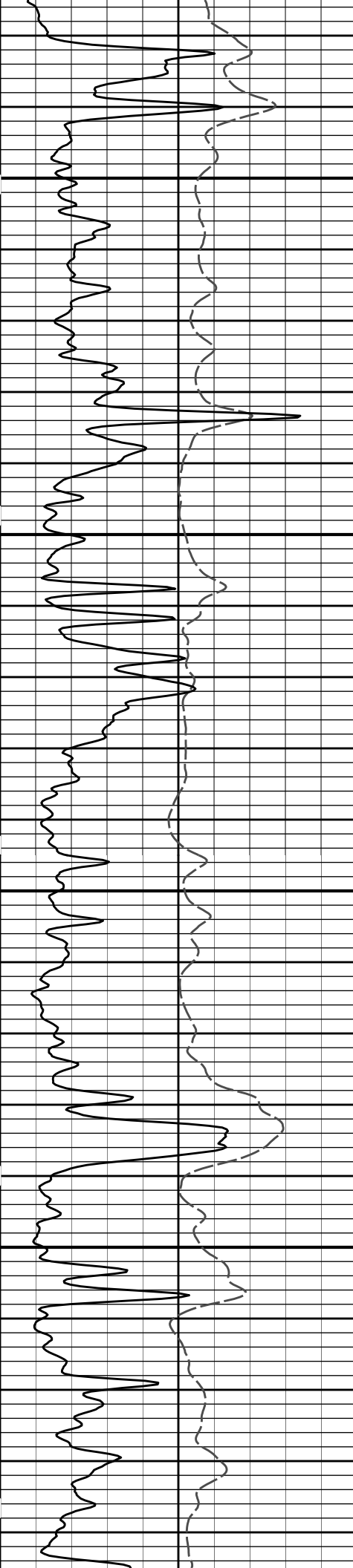




4100

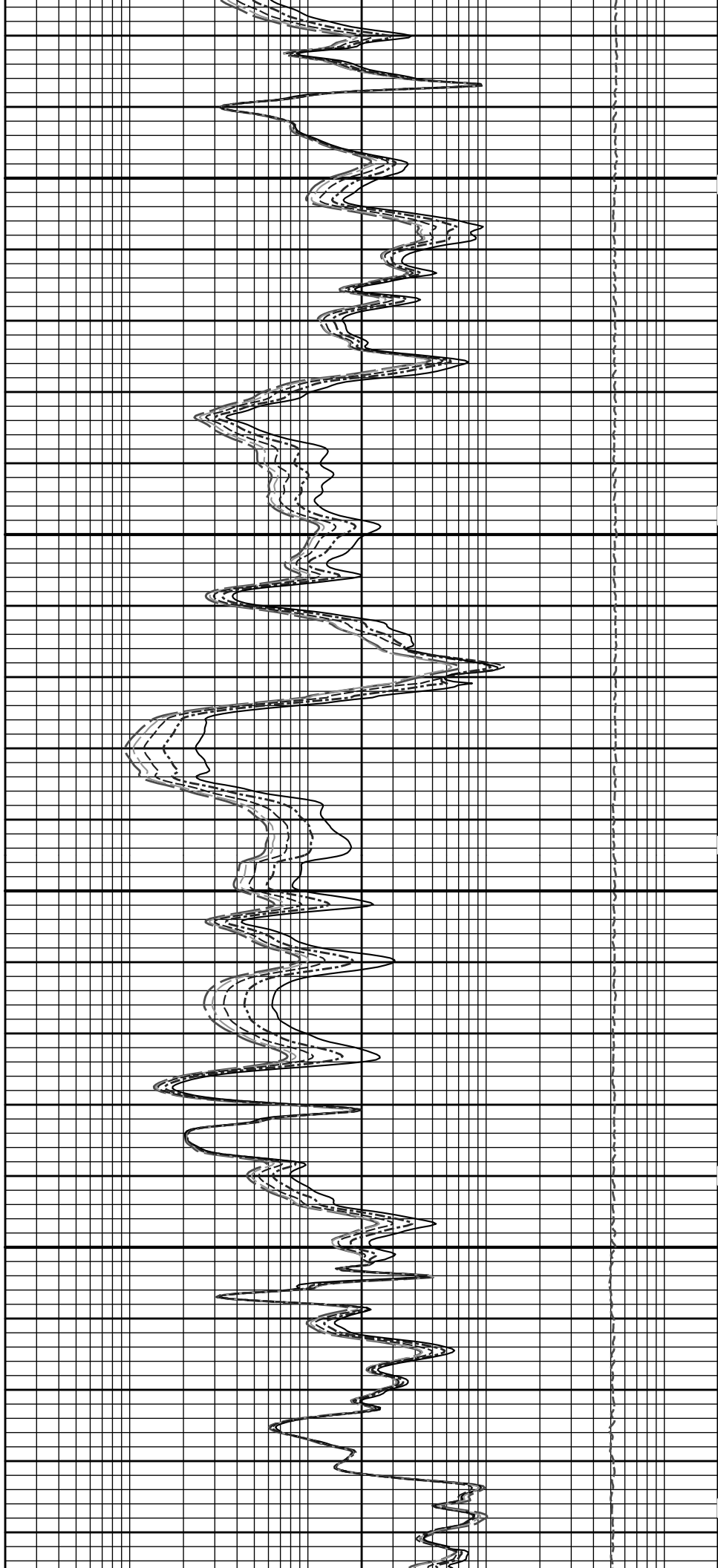
4200

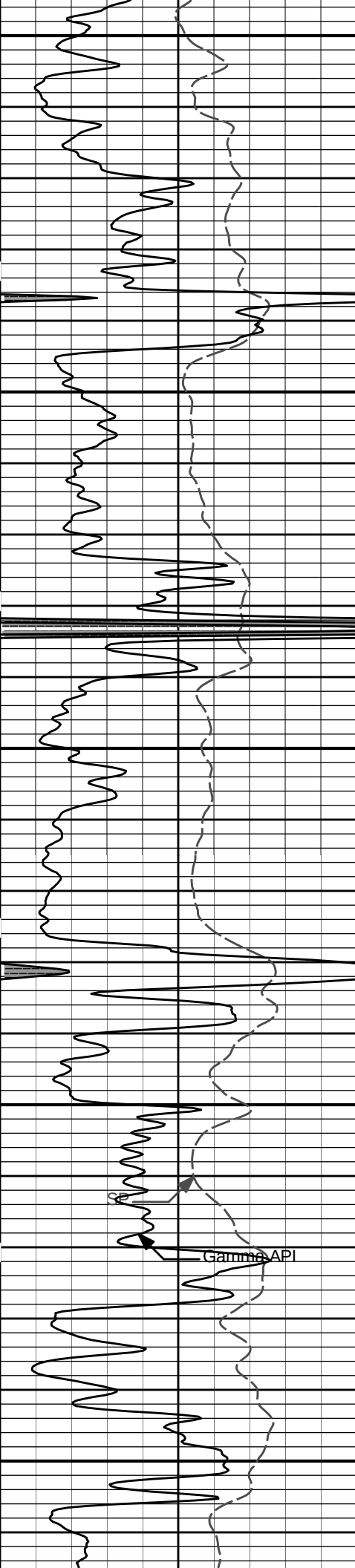




4300

4400

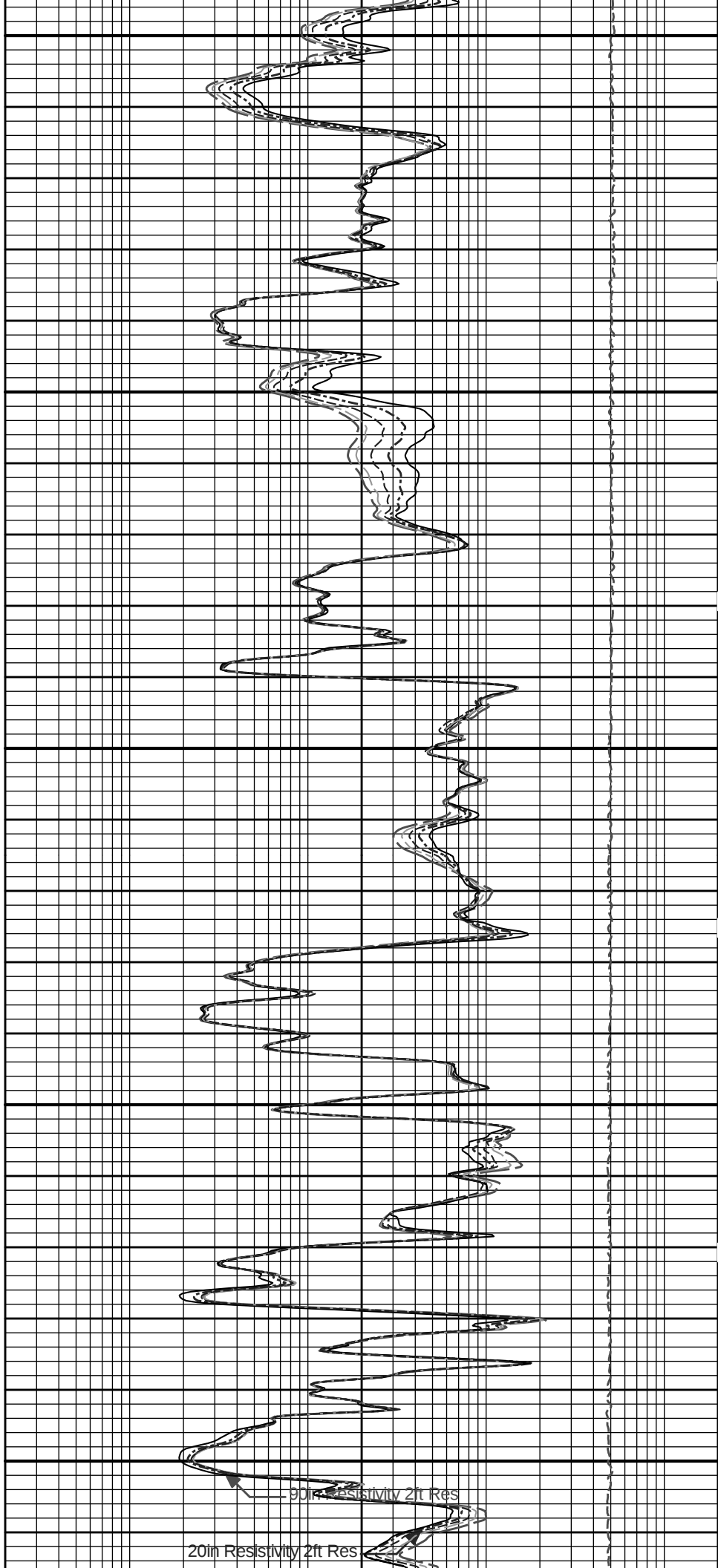




4500

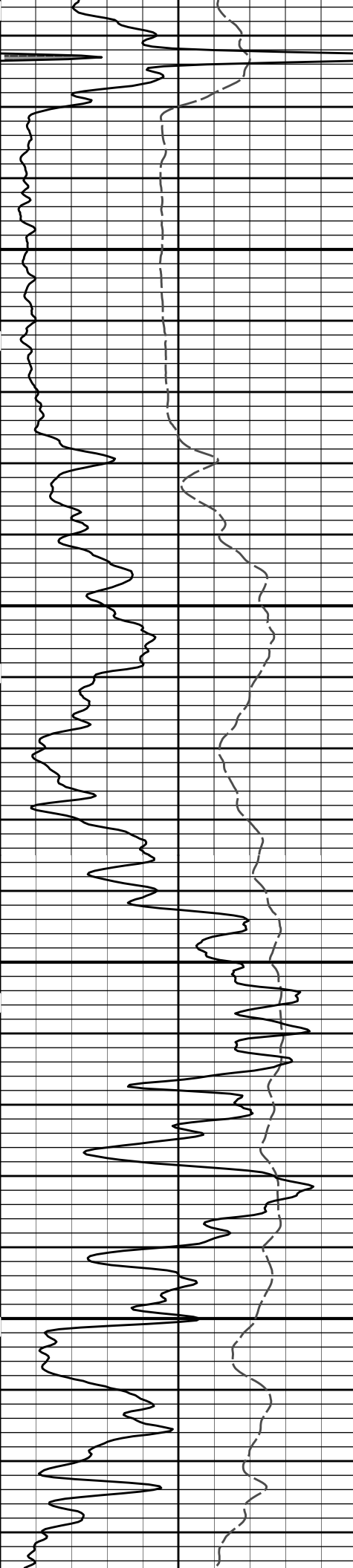
4600

Gamma API



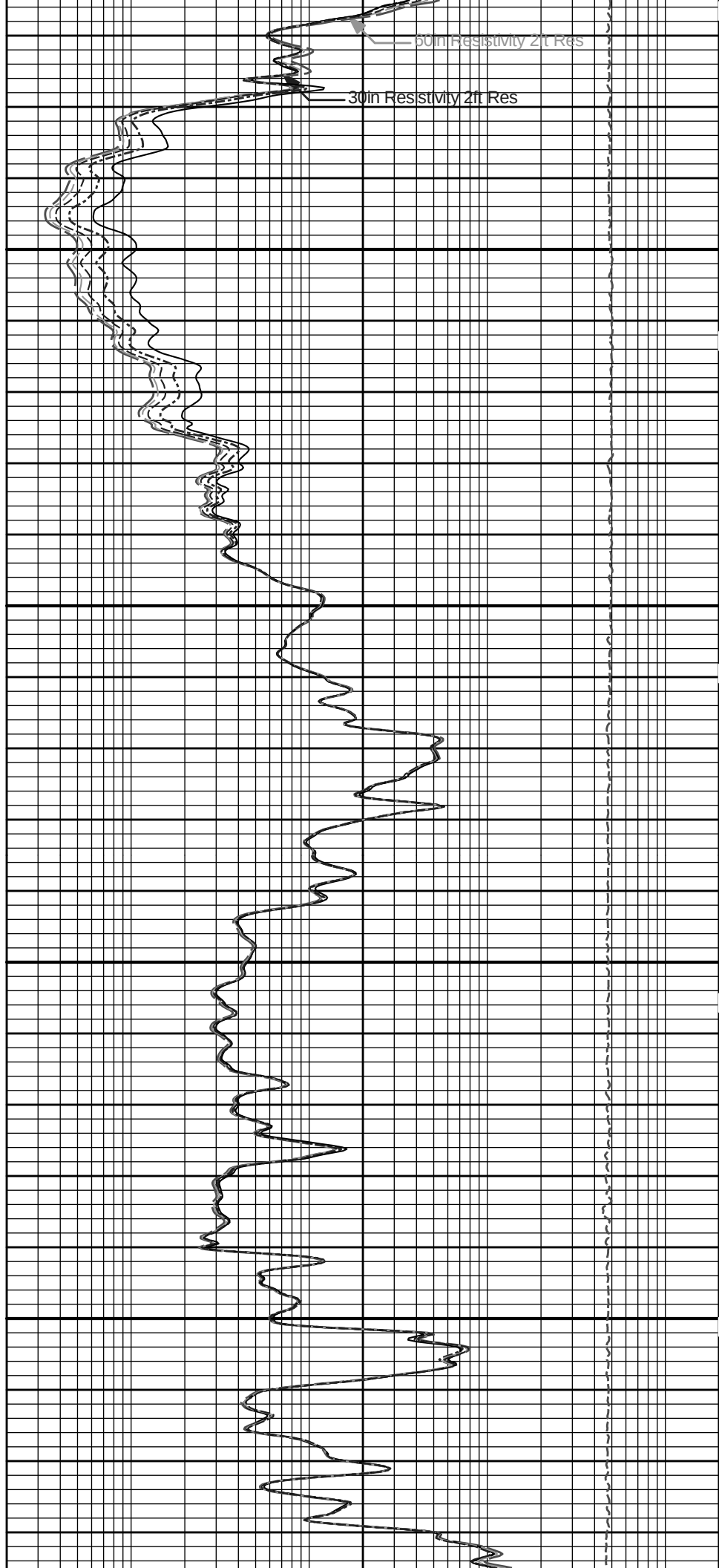
20in Resistivity 2ft Res

90in Resistivity 2ft Res



4700

4800



50in Resistivity 2ft Res

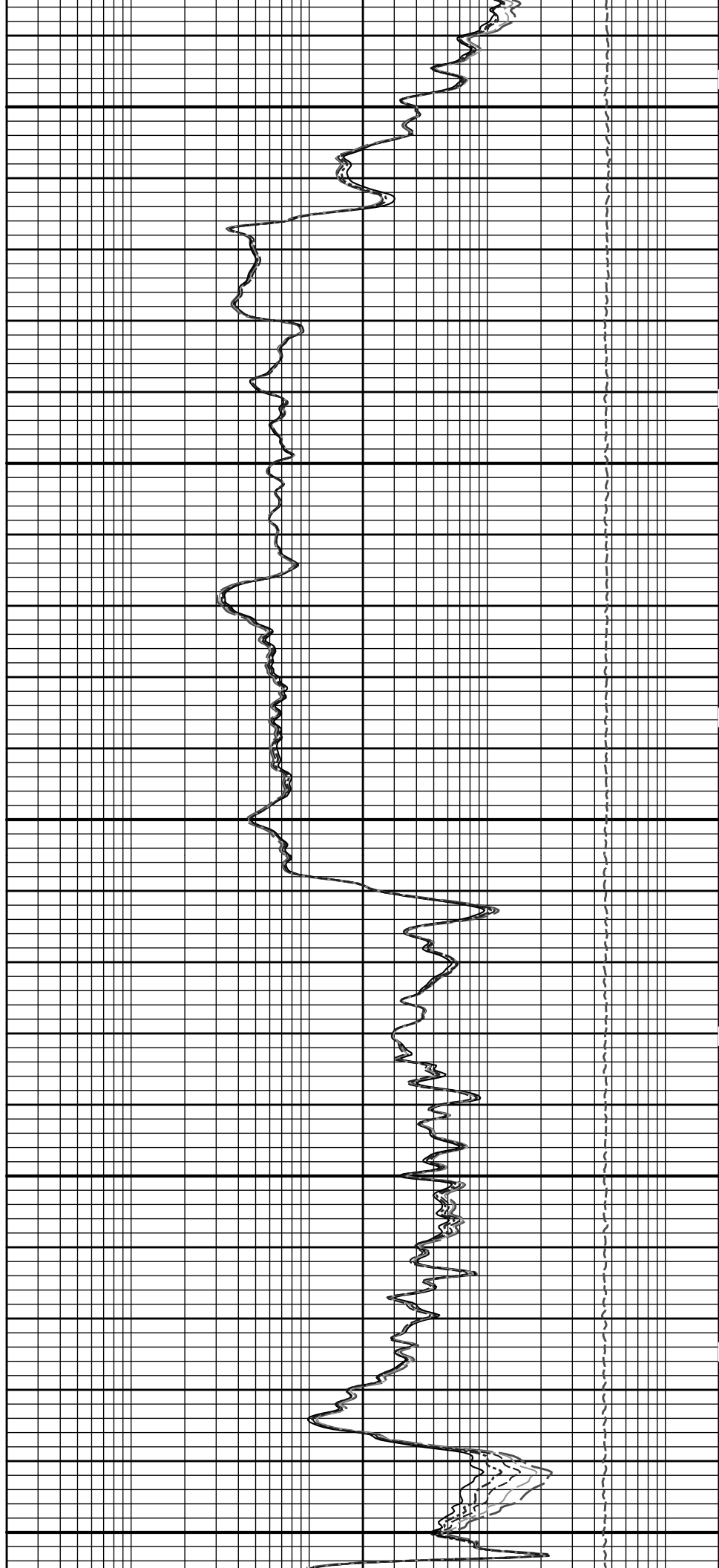
30in Resistivity 2ft Res

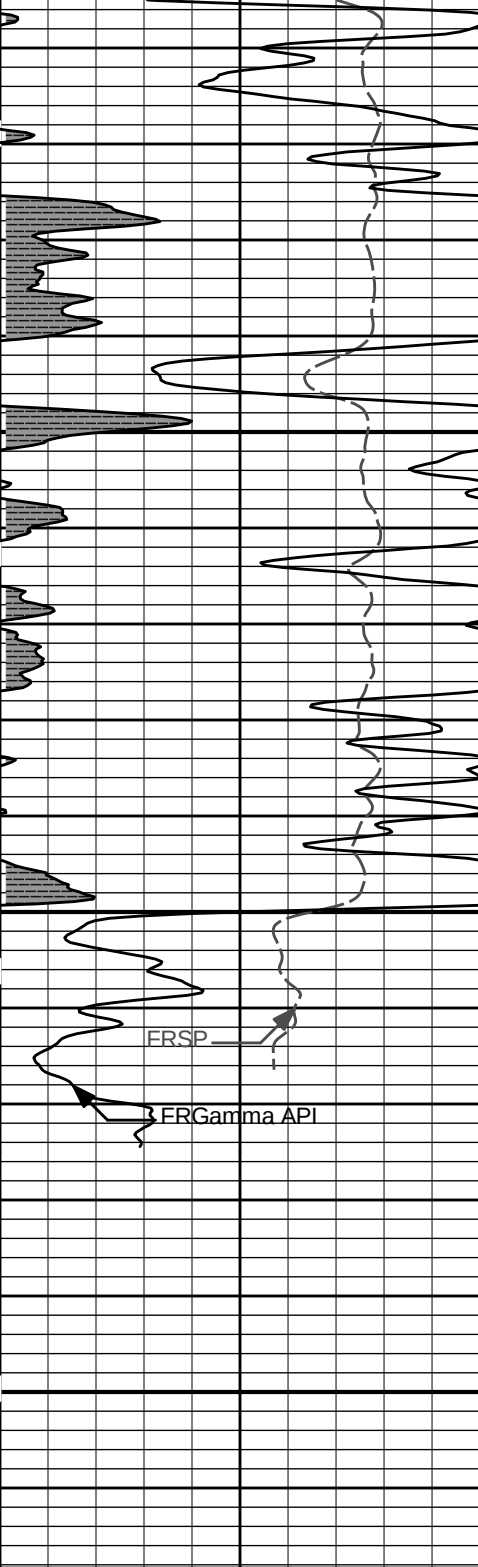


4900

5000

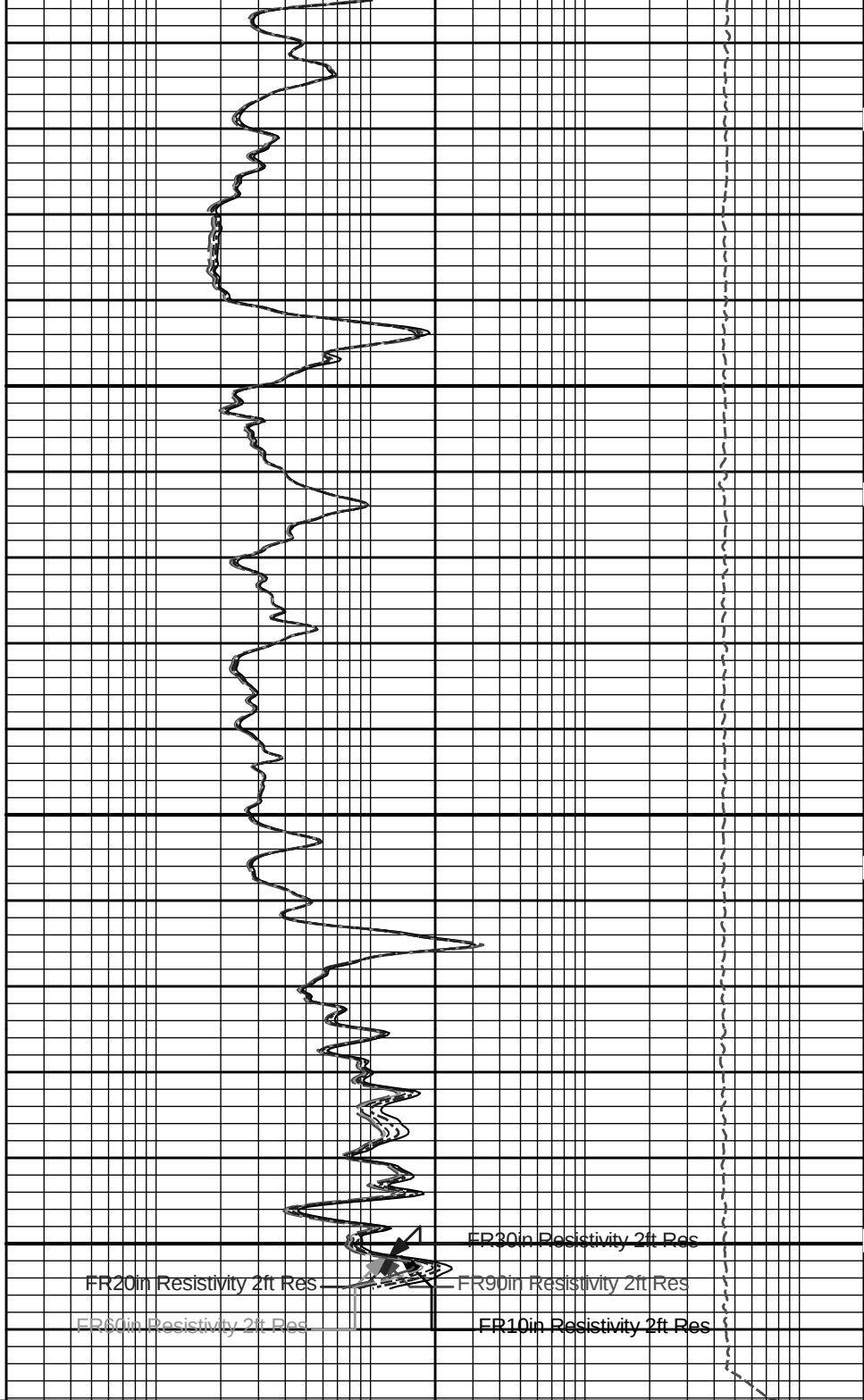
5100





5200

TD



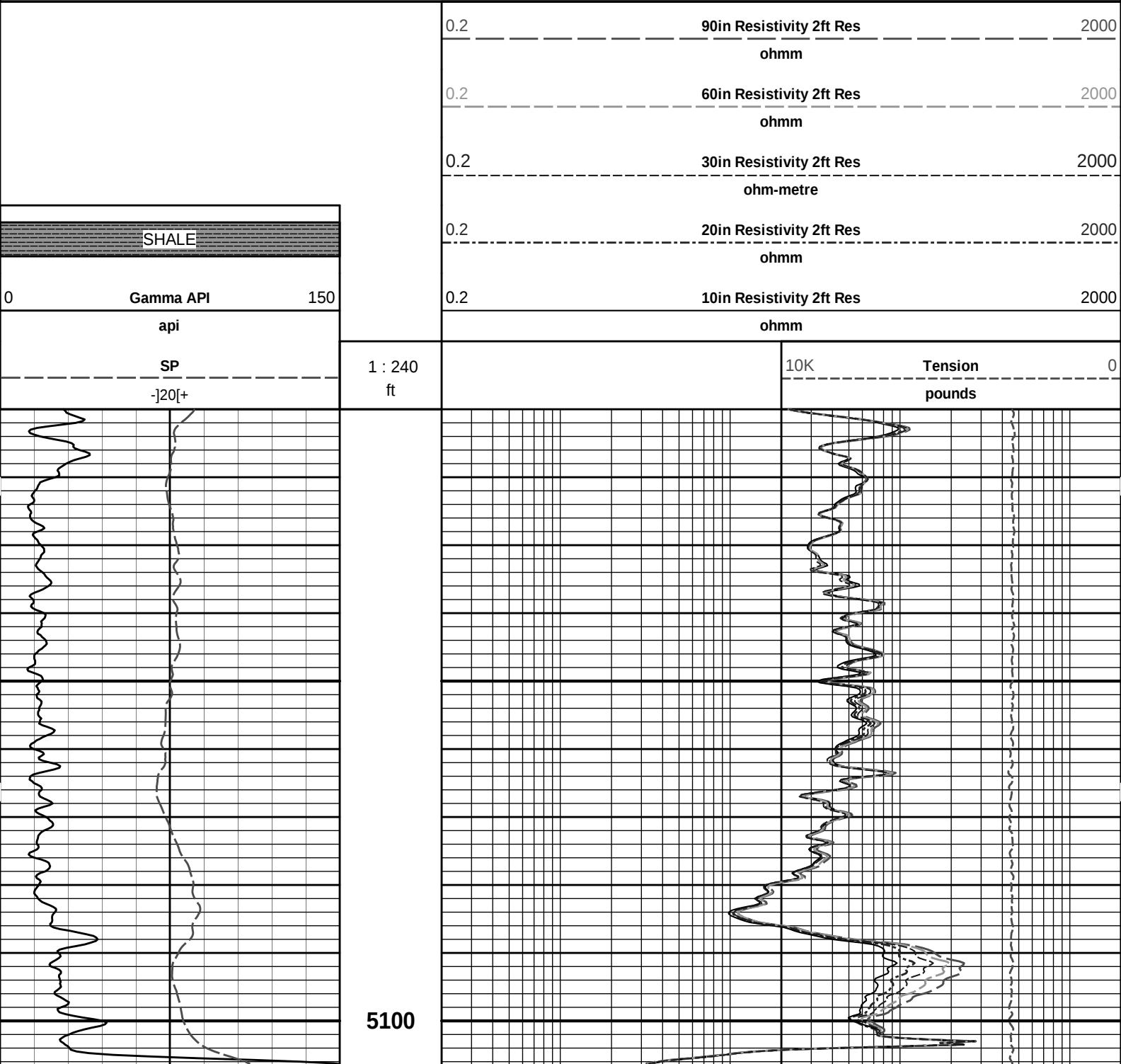
SP	
-20[+]	
0	150
Gamma API	
api	
SHALE	

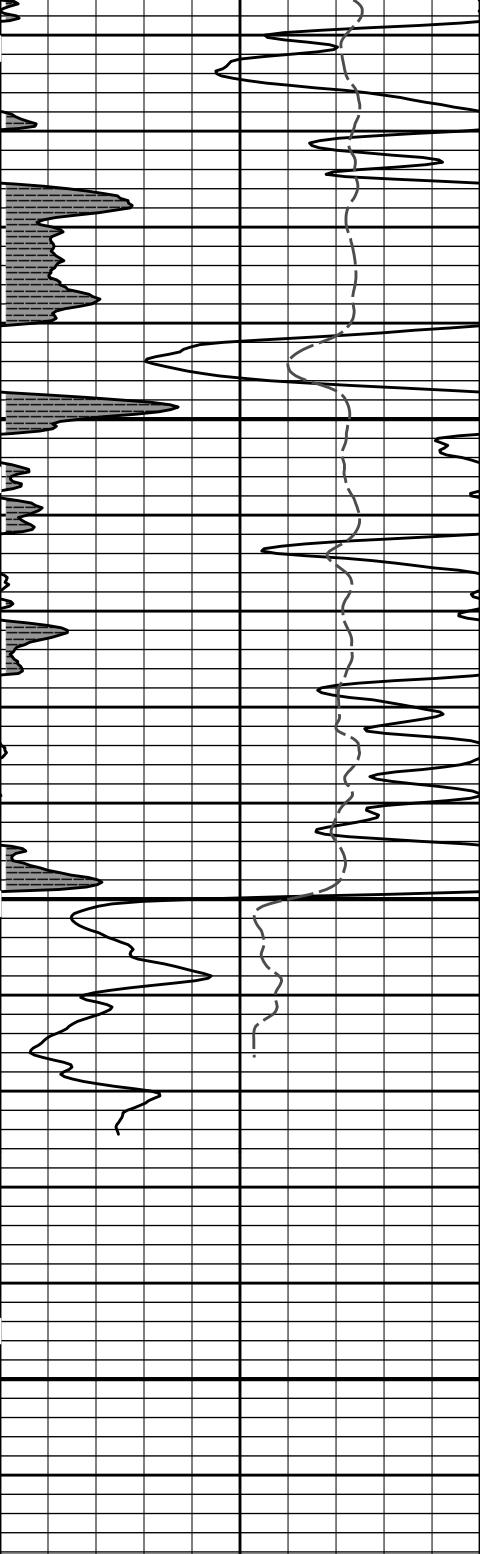
1 : 240
ft
Tension Pull
10
Tension Pull

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

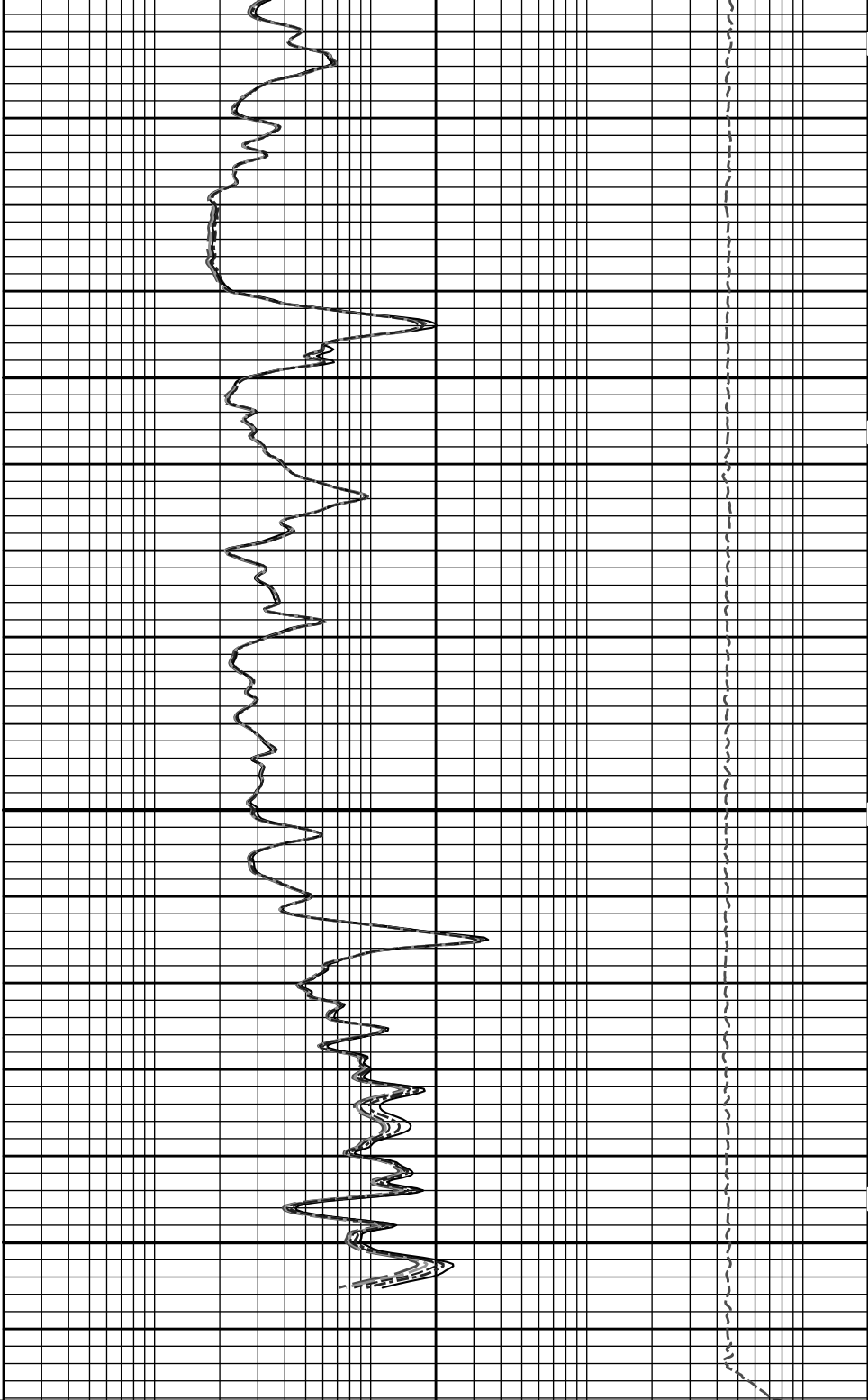
5 INCH MAIN LOG

REPEAT SECTION





5200



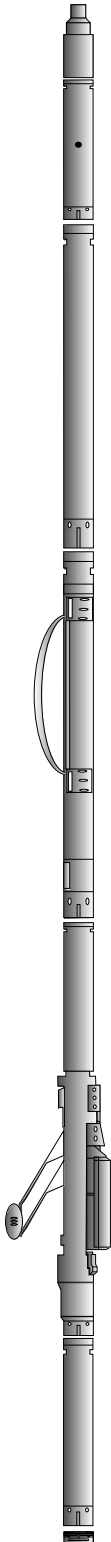
SP		
-]20[+		
0	Gamma API	150
api		
SHALE		

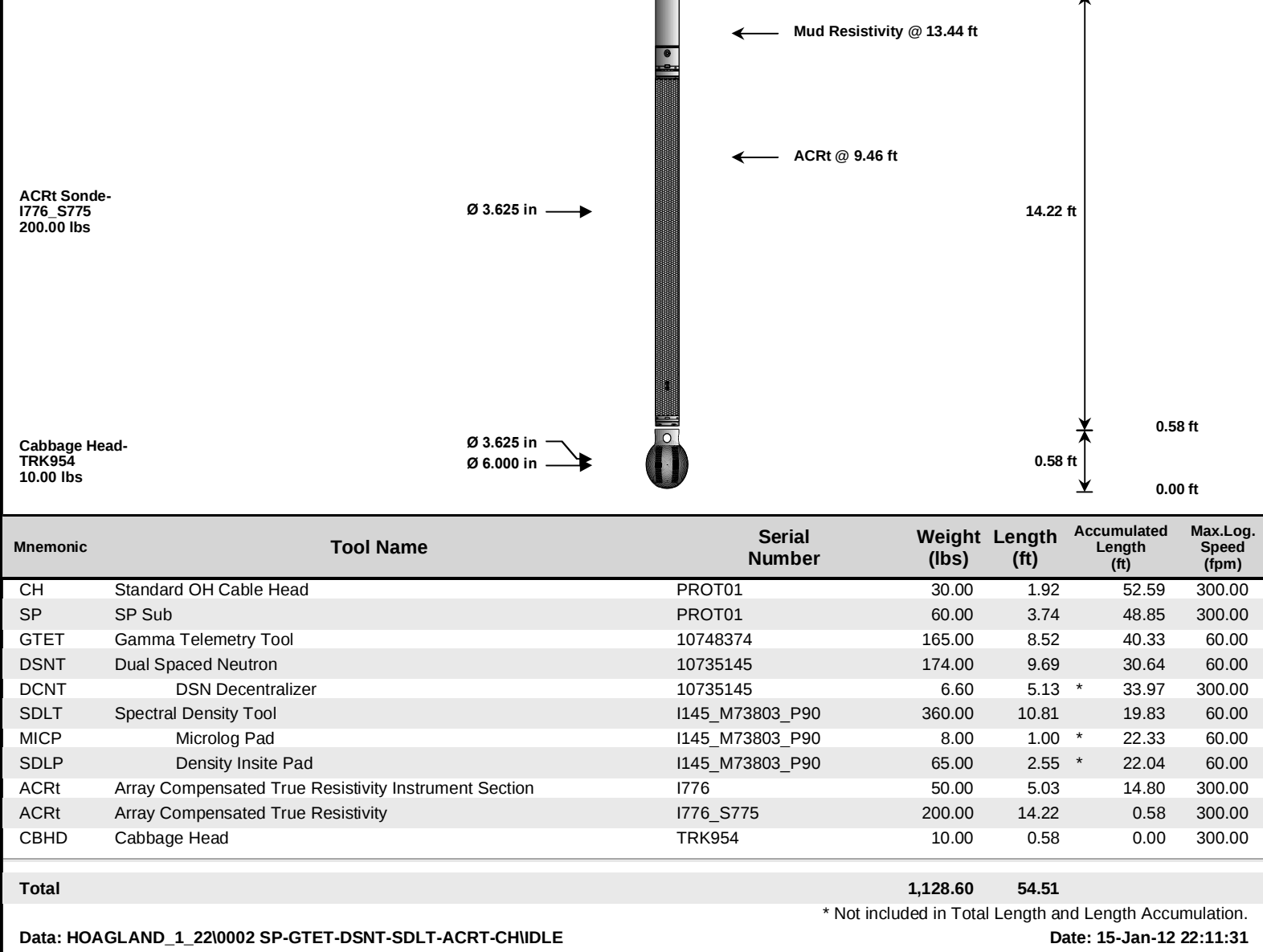
1 : 240
ft

10K		Tension	0
		pounds	
0.2	10in Resistivity 2ft Res		2000
ohmm			
0.2	20in Resistivity 2ft Res		2000
ohmm			
0.2	30in Resistivity 2ft Res		2000
ohm-metre			
0.2	60in Resistivity 2ft Res		2000
ohmm			
0.2	90in Resistivity 2ft Res		2000
ohmm			

REPEAT SECTION

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	54.51 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →		← SP @ 50.81 ft	3.74 ft	52.59 ft
						48.85 ft
GTET-10748374 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	
						40.33 ft
DSN Decentralizer- 10735145 6.60 lbs		Ø 5.000 in* →				
DSNT-10735145 174.00 lbs		Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	
						30.64 ft
SDLT- I145_M73803_P90 360.00 lbs	SDLT Pad- I145_M73803_P90 65.00 lbs	Ø 4.500 in →		Microlog @ 22.83 ft SDL Caliper @ 22.65 ft SDL @ 22.64 ft	10.81 ft	
	Microlog Pad- I145_M73803_P90 8.00 lbs	Ø 4.750 in* → Ø 4.750 in* →				19.83 ft
ACRT Instrument- I776 50.00 lbs		Ø 3.625 in →			5.03 ft	
						14.80 ft



HALLIBURTON					
CALIBRATION REPORT					
SURFACE TENSION SHOP CALIBRATION					
Tool Name:	Depth Panel - 10842695		Reference Calibration Date:	28-Dec-07 12:33:23	
Engineer:	GUTHMUELLER		Calibration Date:	07-Jan-08 09:52:53	
Software Version:	WL INSITE R2.0 (Build 22)		Calibration Version:	1	
	SURFACE TENSION LOAD CELL				
	Measurement	Load Cell Value	Measurement	Calibrated	Units
	Low	10285.21	-35.81	0.00	lbs
	High	17061.79	6736.91	6770.00	lbs
NATURAL GAMMA RAY TOOL SHOP CALIBRATION					
Tool Name:	GTET - 10748374		Reference Calibration Date:	02-Nov-11 10:46:23	
Engineer:	C. MARLOWE		Calibration Date:	11-Dec-11 15:41:11	
Software Version:	WL INSITE R3.4.2 (Build 2)		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	29.5	29.1	api
Background + Calibrator	264.0	261.1	api
Calibrator	234.6	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Reference Calibration Date: 11-Dec-11 15:41:11

Calibration Date: 13-Jan-12 11:31:40

Calibration Version: 1

Calibrator API Reference:228.00 api

Field Verification	Shop	Field	Units
Background	29.1	45.1	api
Background + Calibrator	261.1	277.8	api
Calibrator	232.0	232.7	api

Shop	Field	Difference	Tolerance
232.0	232.7	-0.7	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Reference Calibration Date: 06-Nov-11 13:13:00

Calibration Date: 16-Dec-11 04:41:40

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	1.0238	1.05	0.95	1.0275	1.05	0.95	1.0273	1.05
A2 (50")	0.95	1.0171	1.05	0.95	1.0216	1.05	0.95	1.0194	1.05
A3 (29")	0.95	1.0101	1.05	0.95	1.0138	1.05	0.95	1.0114	1.05
A4 (17")	0.95	1.0098	1.05	0.95	1.0125	1.05	0.95	1.0132	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0125	1.05	0.95	1.0138	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9990	1.05	0.95	1.0035	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	-1.567	2	-6	-4.284	-2	-8	-4.287	-2
A2 (50")	-7	-2.703	-1	-6	-4.216	-2	-7	-4.260	-2
A3 (29")	-27	-14.603	-9	-9	-4.373	-3	-7	-2.480	-1
A4 (17")	-180	-101.892	-60	-45	-31.309	-15	-39	-24.244	-13
A5 (10")	N/A	N/A	N/A	-150	-117.498	-50	-80	-53.883	-10
A6 (6")	N/A	N/A	N/A	175	276.891	525	90	138.510	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.8454	1.3
36K	1.0	1.1743	2.0
72K	1.0	1.4617	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	0.991	1.05

CALIBRATION SUMMARY

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
Depth Panel-10842695						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	6770.00	-----	-----	0.00	-----	lbs
GTET-10748374						
Gamma Ray Calibrator	232.0	232.7	-----	-0.7	+/- 9.00	api
ACRt Sonde-I776_S775						
Mud Cell	0.991	-----	-----	0.000	-----	ohm-m
Data: HOAGLAND_1_22\0001 SP-GTET-DSNT-SDLT-ACRT-CH\IDLE				Date: 15-Jan-12 17:10:02		

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	9.500	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	0.340	ohmm
	SHARED	TRM	Temperature of Mud	67.0	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	5264.00	ft
	SHARED	BHT	Bottom Hole Temperature	115.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	Temperature Master Tool	NONE	
	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	0.29	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	65.00	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	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	DSNT	DNOK	Process DSN?	Yes	

DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	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
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Free Hanging	
ACRt Sonde	RMOP	Rmud Source	Gradient	
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: HOAGLAND_1_22\0002 SP-GTET-DSNT-SDLT-ACRT-CH\IDLE			Date: 15-Jan-12 23:35:30	

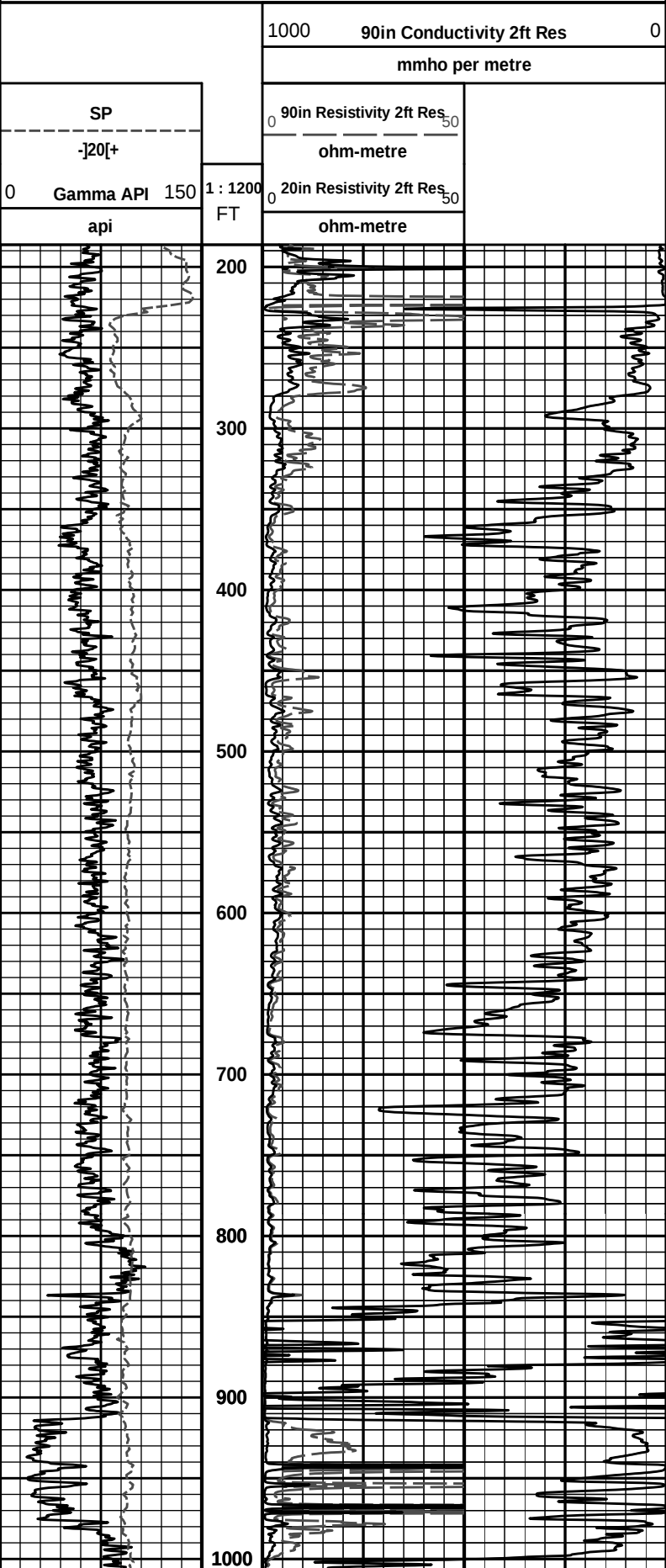
HALLIBURTON				
INPUTS, DELAYS AND FILTERS TABLE				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
SP Sub				
PLTC	Plot Control Mask	50.81	NO	
SP	Spontaneous Potential	50.81	BLK	1.250
SPR	Raw Spontaneous Potential	50.81	NO	
SPO	Spontaneous Potential Offset	50.81	NO	
GTET				
TPUL	Tension Pull	42.79	NO	
GR	Natural Gamma Ray API	42.79	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.79	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.79	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
DSNT				
TPUL	Tension Pull	32.54	NO	
RNDS	Near Detector Telemetry Counts	32.64	BLK	1.417

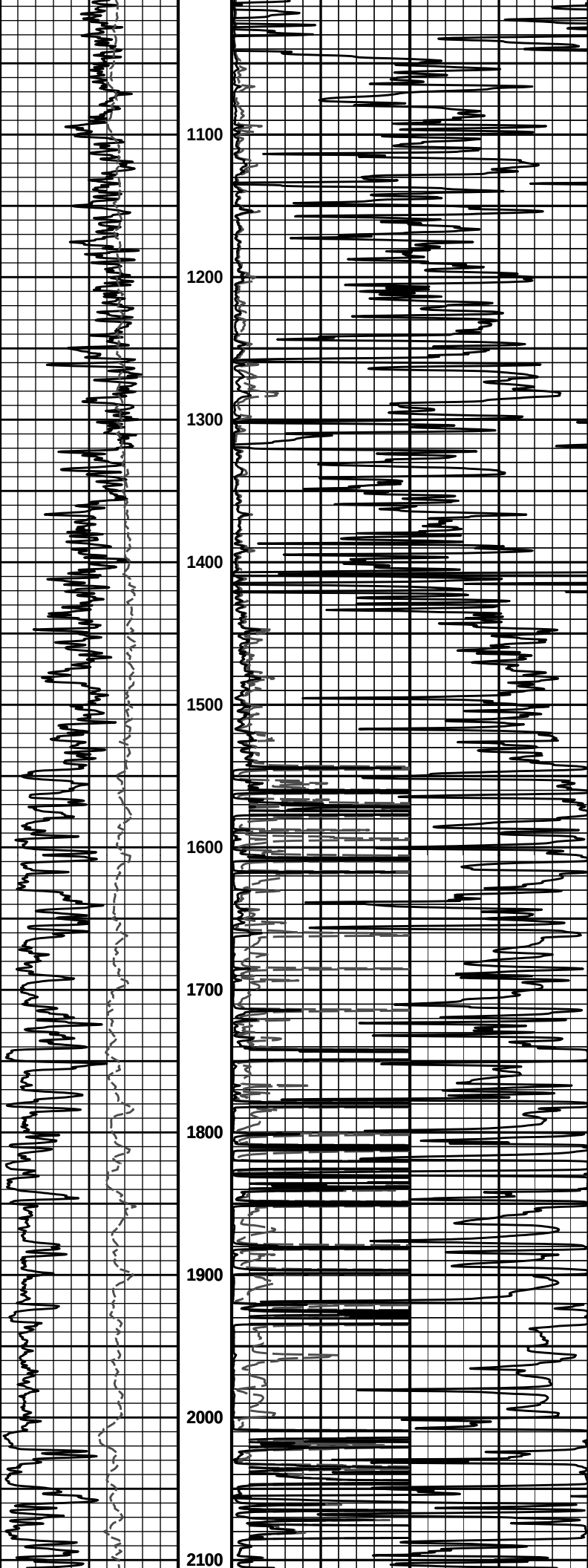
RFDS	Far Detector Telemetry Counts	33.39	TRI	0.583
DNTT	DSN Tool Temperature	32.64	NO	
DSNS	DSN Tool Status	32.54	NO	
ERND	Near Detector Telemetry Counts EVR	32.64	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.39	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.64	NO	
SDLT				
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
ACRt Sonde				
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000

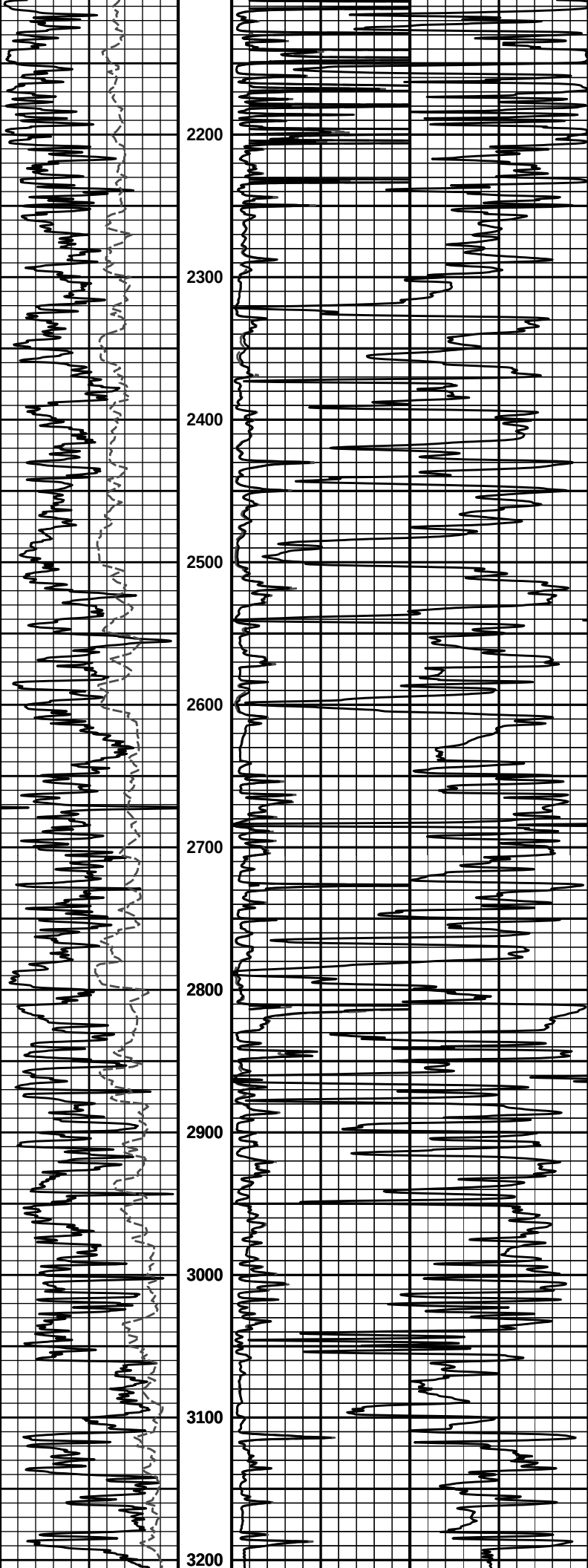
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	
SDLT Pad				
TPUL	Tension Pull	22.64	NO	
NAB	Near Above	22.46	BLK	0.920
NHI	Near Cesium High	22.46	BLK	0.920
NLO	Near Cesium Low	22.46	BLK	0.920
NVA	Near Valley	22.46	BLK	0.920
NBA	Near Barite	22.46	BLK	0.920
NDE	Near Density	22.46	BLK	0.920
NPK	Near Peak	22.46	BLK	0.920
NLI	Near Lithology	22.46	BLK	0.920
NBAU	Near Barite Unfiltered	22.46	BLK	0.250
NLIU	Near Lithology Unfiltered	22.46	BLK	0.250
FAB	Far Above	22.81	BLK	0.250
FHI	Far Cesium High	22.81	BLK	0.250
FLO	Far Cesium Low	22.81	BLK	0.250
FVA	Far Valley	22.81	BLK	0.250
FBA	Far Barite	22.81	BLK	0.250
FDE	Far Density	22.81	BLK	0.250
FPK	Far Peak	22.81	BLK	0.250
FLI	Far Lithology	22.81	BLK	0.250
PTMP	Pad Temperature	22.65	BLK	0.920
NHV	Near Detector High Voltage	22.04	NO	
FHV	Far Detector High Voltage	22.04	NO	
ITMP	Instrument Temperature	22.04	NO	
DDHV	Detector High Voltage	22.04	NO	
Microlog Pad				
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
Data: HOAGLAND_1_22I0002 SP-GTET-DSNT-SDLT-ACRT-CHIIDLE			Date: 15-Jan-12 23:34:55	

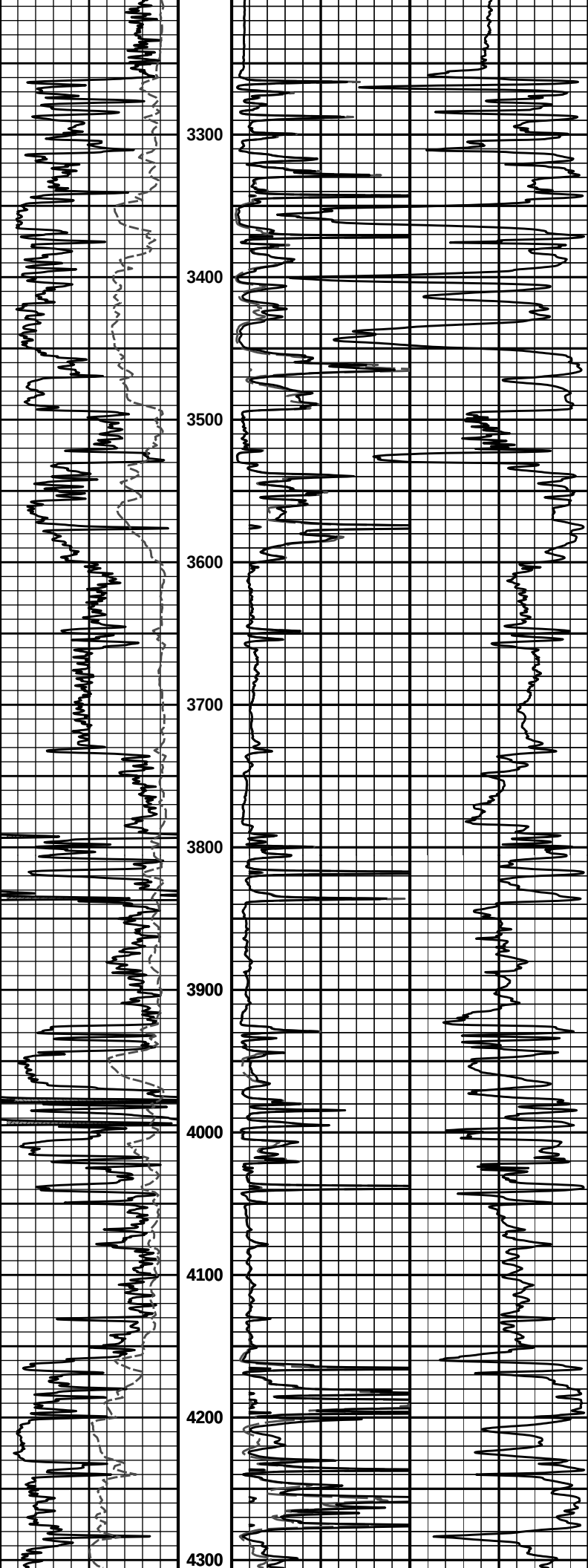
COMPANY	VAL ENERGY, INC,		
WELL	HOAGLAND 1-22		
FIELD	UNKNOWN		
COUNTY	BARBER	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISITIVITY LOG	

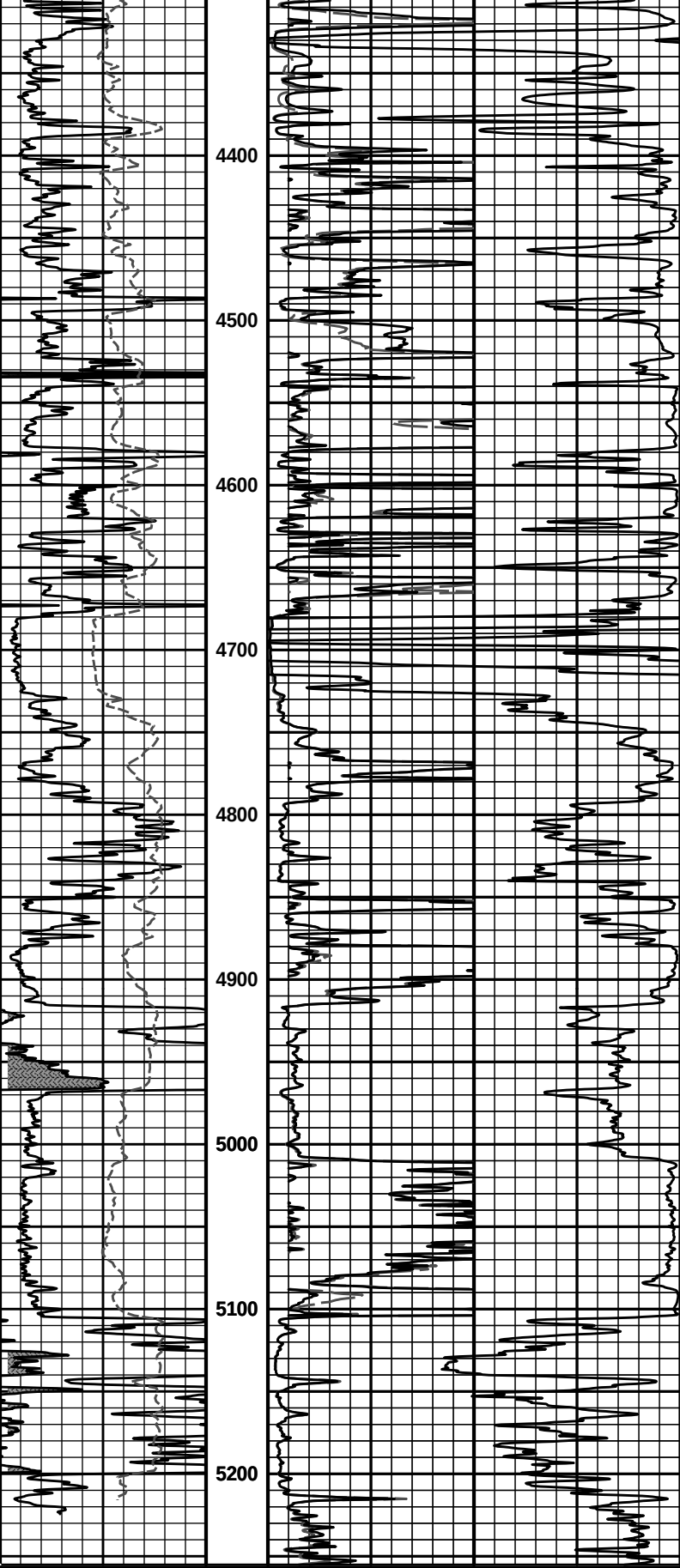
1 INCH MAIN LOG











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

HALLIBURTON

Plot Time: 16-Jan-12 01:32:39
Plot Range: 186.25 ft to 5255.23 ft
Data: HOAGLAND_1_22\Well Based\CASING\
Plot File: \\-LOCAL-\\HOAGLAND_1_22\\0002 SP-GTET-DSNT-SDLT-ACRT-CH\\...\\ACRT_1.lib

1 INCH MAIN LOG