

# HALLIBURTON

## ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY	BEREXCO INC.		
WELL	WELLINGTON KGS #1-28		
FIELD	WELLINGTON		
COUNTY	SUMNER		
STATE	KANSAS		
Permanent Datum Log measured from	GL	Secl. 28	Twp. 31S
	KB		Rge. 1W
Drilling measured from	KB		Elev. 1257.0 ft
	KB		13.0 ft above perm. Datum
Date	03-Mar-11		
Run No.	1		
Depth - Driller	5250.00 ft		
Depth - Logger	5250.0 ft		
Bottom - Logged Interval	5241.0 ft		
Top - Logged Interval	648.0 ft		
Casing - Driller	8.625 in @ 633.0 ft		
Casing - Logger	648.0 ft @		
Bit Size	7.875 in @		
Type Fluid in Hole	WATER BASED MUD		
Density	9.0 ppg	48.00	s/qt
PH	9.00 pH	6.0	cpm
Source of Sample	MUD PIT		
Rm @ Meas. Temperature	1.260 ohmm @ 70.00 degF		@
Rmf @ Meas. Temperature	1.110 ohmm @ 70.00 degF		@
Rmc @ Meas. Temperature	1.500 ohmm @ 70.00 degF		@
Source Rmf	MEAS	MEAS	
Rm @ BHT	0.85 ohmm @ 130.0 degF		@
Time Since Circulation	4.0 hr		
Time on Bottom	03-Mar-11 23:12		
Max. Rec. Temperature	130.0 degF @ 5250.0 ft		@
Equipment	10546696	LIBERAL	
Recorded By	J. BOSCH		
Witnessed By	L. WATNEY	K. CRISLER	G. KORALEGEDARA

COMPANY BEREXCO INC.  
WELL WELLINGTON KGS #1-28  
FIELD WELLINGTON  
COUNTY SUMNER  
STATE KANSAS

API No. 15-191-22590  
Location 560' FSL & 1700' FWL

Other Services:  
DSN/SDL  
MICRO  
CSNG  
GEM  
WSTT  
XRMI  
MRIL

Fold here

Service Ticket No.: 7980390		API Serial No.: 15-191-22590		PGM Version: WL INSITE R3.2.0 (Build 7)	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES	
Date	Sample No.			Type Log	Depth
Depth-Driller					Scale Up Hole
Type Fluid in Hole					Scale Down Hole
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample				RESISTIVITY EQUIPMENT DATA	
Rm @ Meas. Temp	@	@	Run No.	Tool Type & No.	Pad Type
Rmf @ Meas. Temp.	@	@	ONE	ACRT S5909	N/A
Rmc @ Meas. Temp.	@	@			
Source Rmf	Rmc				
Rm @ BHT	@	@			
Rmf @ BHT	@	@			
Rmc @ BHT	@	@			
EQUIPMENT DATA					
GAMMA		ACOUSTIC		DENSITY	
Run No.	ONE	Run No.		Run No.	
Serial No.	11039640	Serial No.		Serial No.	
Model No.	GTET	Model No.		Model No.	
Diameter	3.625	No. of Cent.		Diameter	
Detector Model No.	T-102	Spacing		Log Type	
Type	SCINT			Source Type	
Length	8"	LSA [Y/N]		Serial No.	
Distance to Source	10'	FWDA [Y/N]		Strength	
LOGGING DATA					
GENERAL		GAMMA		ACOUSTIC	

Run No.	GENERAL		Speed ft/min	GAMMA		ACOUSTIC		Matrix	DENSITY		Matrix	NEUTRON		
	Depth	From		To	Scale		Scale		Scale			Matrix		
					L	R	L		R	L		R	L	R
ONE	648	5241	REC	0	150									

**DIRECTIONAL INFORMATION**

Maximum Deviation @ KOP @

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING

CHLORIDES: 3000 PPM LCM: 13 LB/BBL

GPS COORDINATES: LAT: 37.19 N LONG: 97.26 W

GTET/CSNG/GEM/DSN/SDL/ACRT RAN IN COMBINATION

TODAY'S CREW: V. JAIME, K. KELLY

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES, LIBERAL, KS 620-624-8123

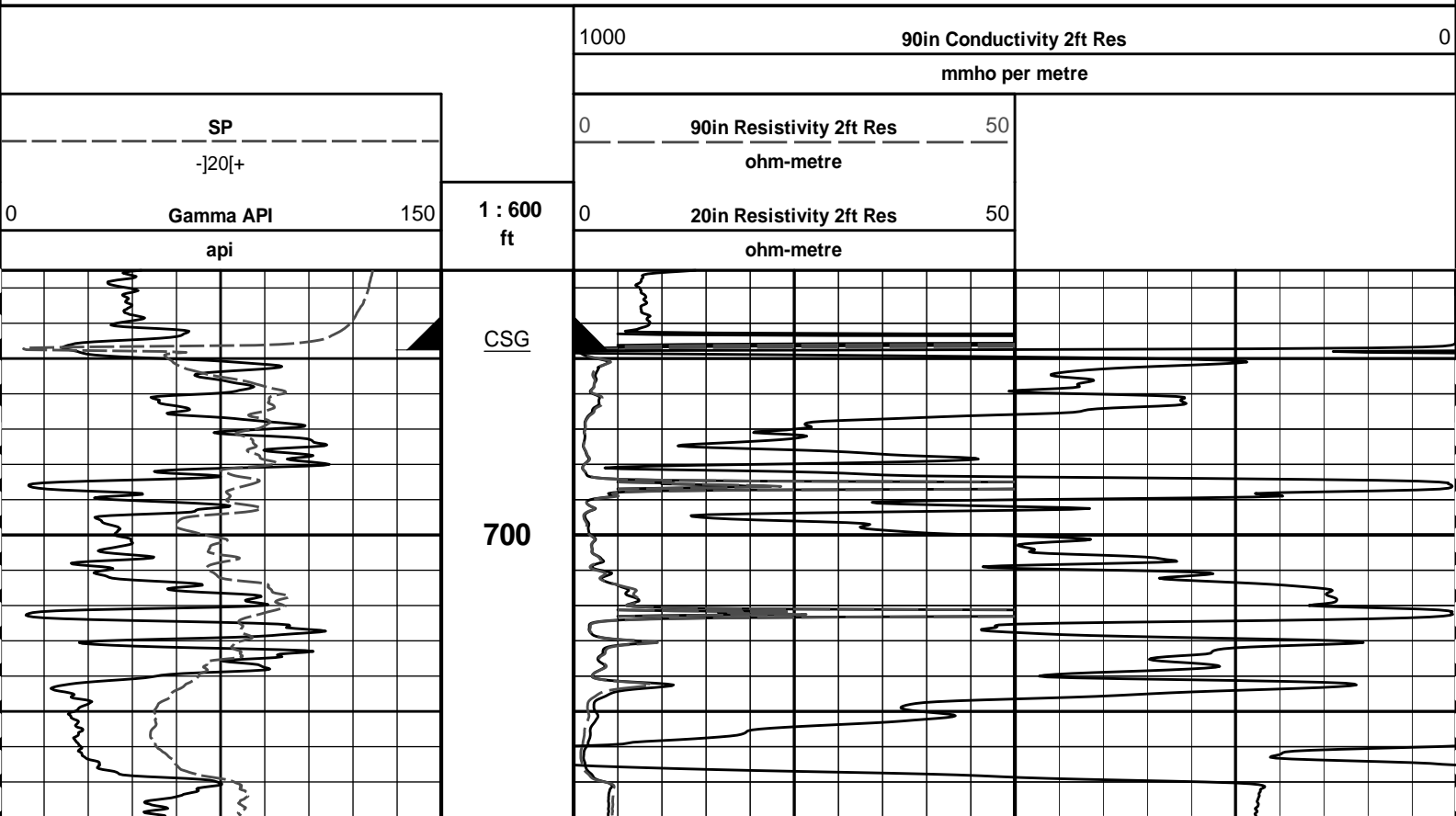
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

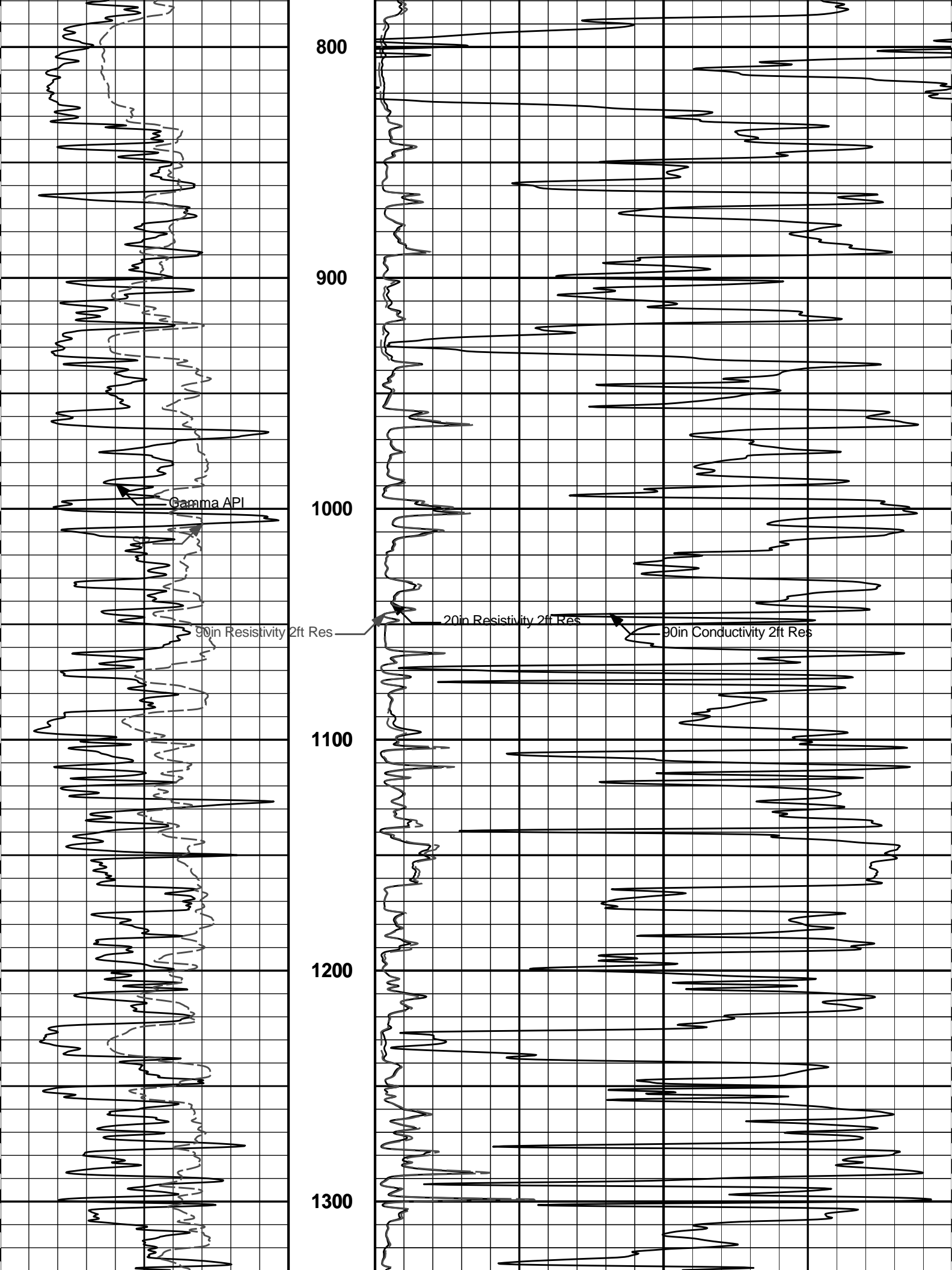
HALLIBURTON

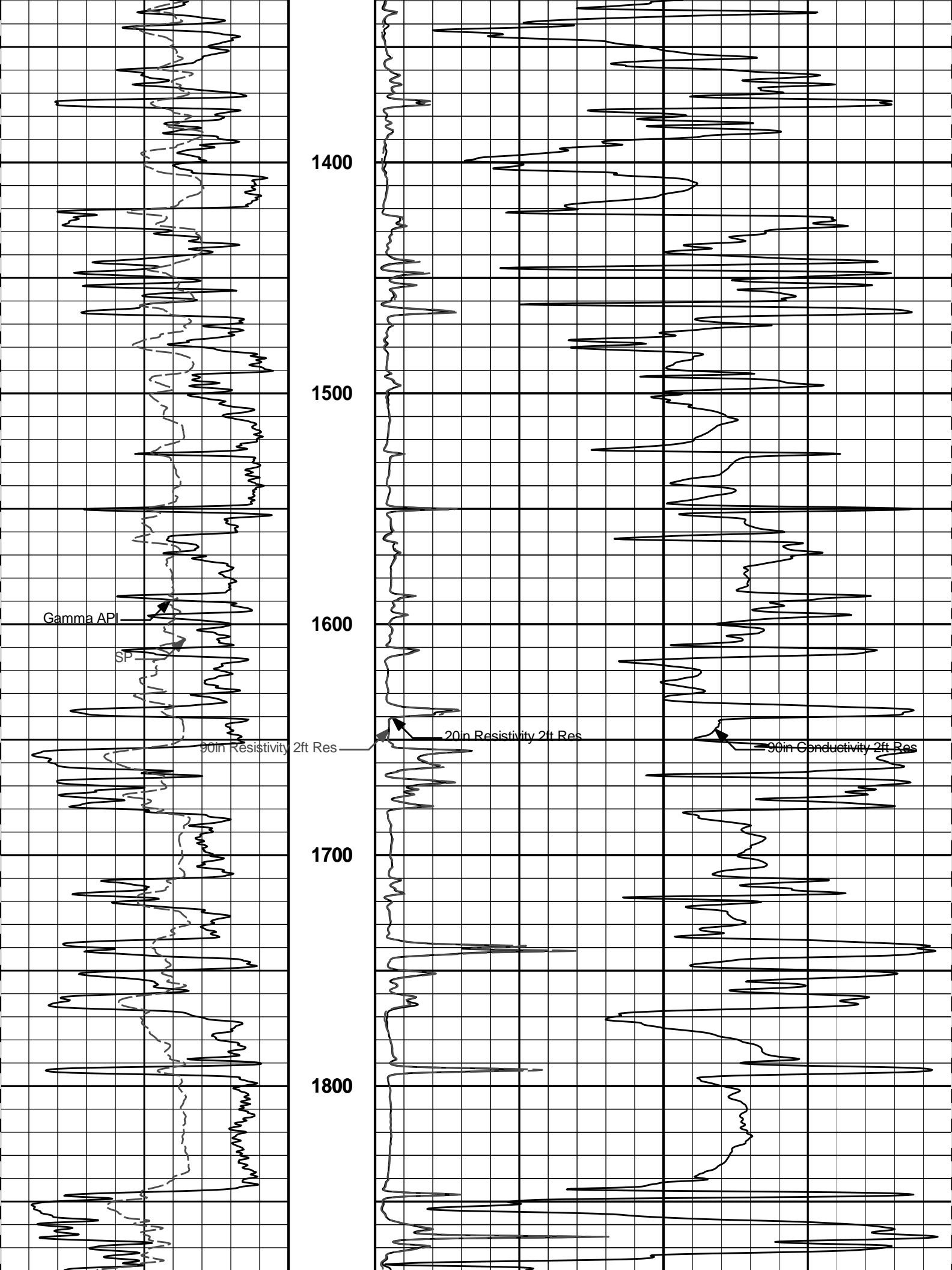


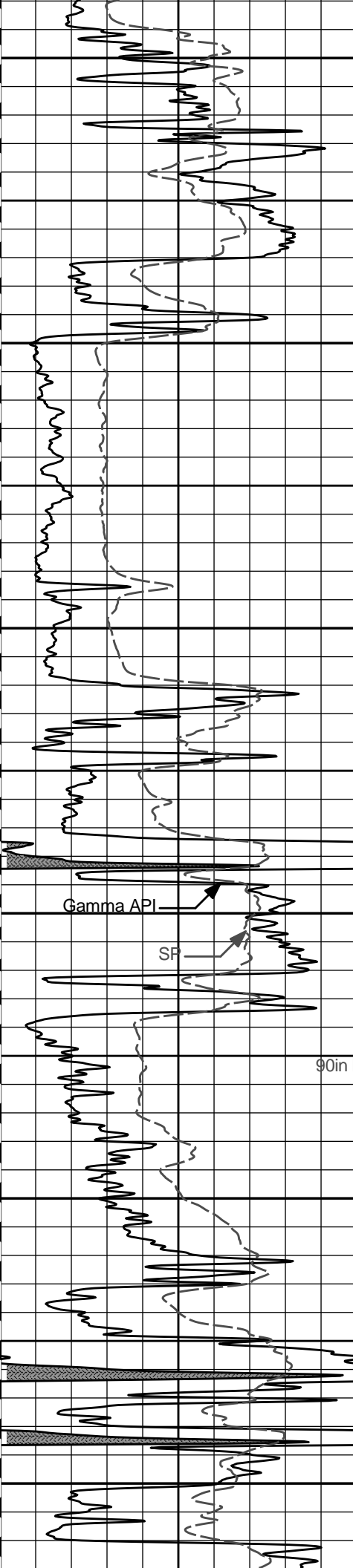
Plot Time: 04-Mar-11 08:11:07  
 Plot Range: 625 ft to 5254.33 ft  
 Data: WELLINGTON\_1\_28\Well Based\DAQ-0001-003\  
 Plot File: \\-LOCAL-WELLINGTON\_1\_28\Well Based\ACRT\ACRT\_2\_lib

## 2 INCH MAIN LOG









1900

2000

2100

2200

2300

2400

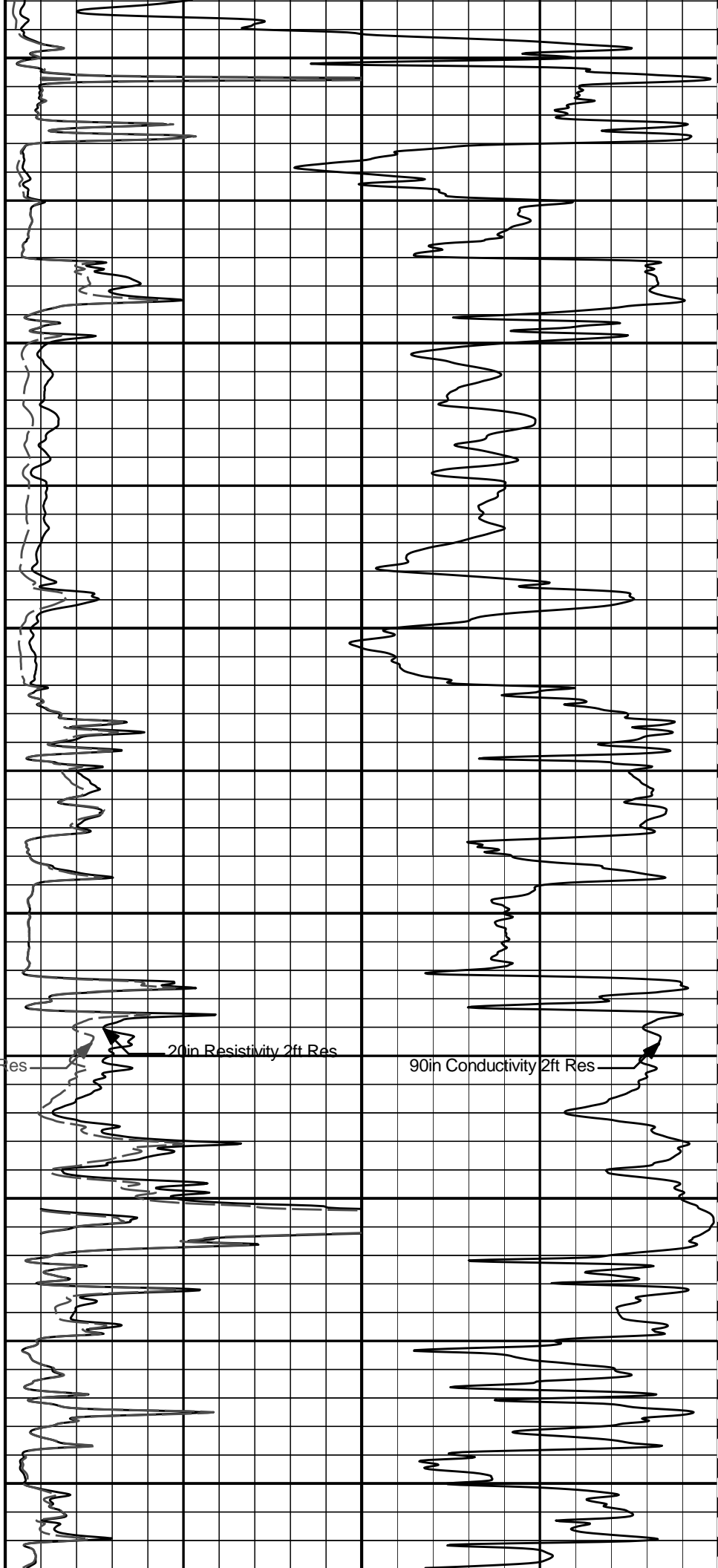
Gamma API

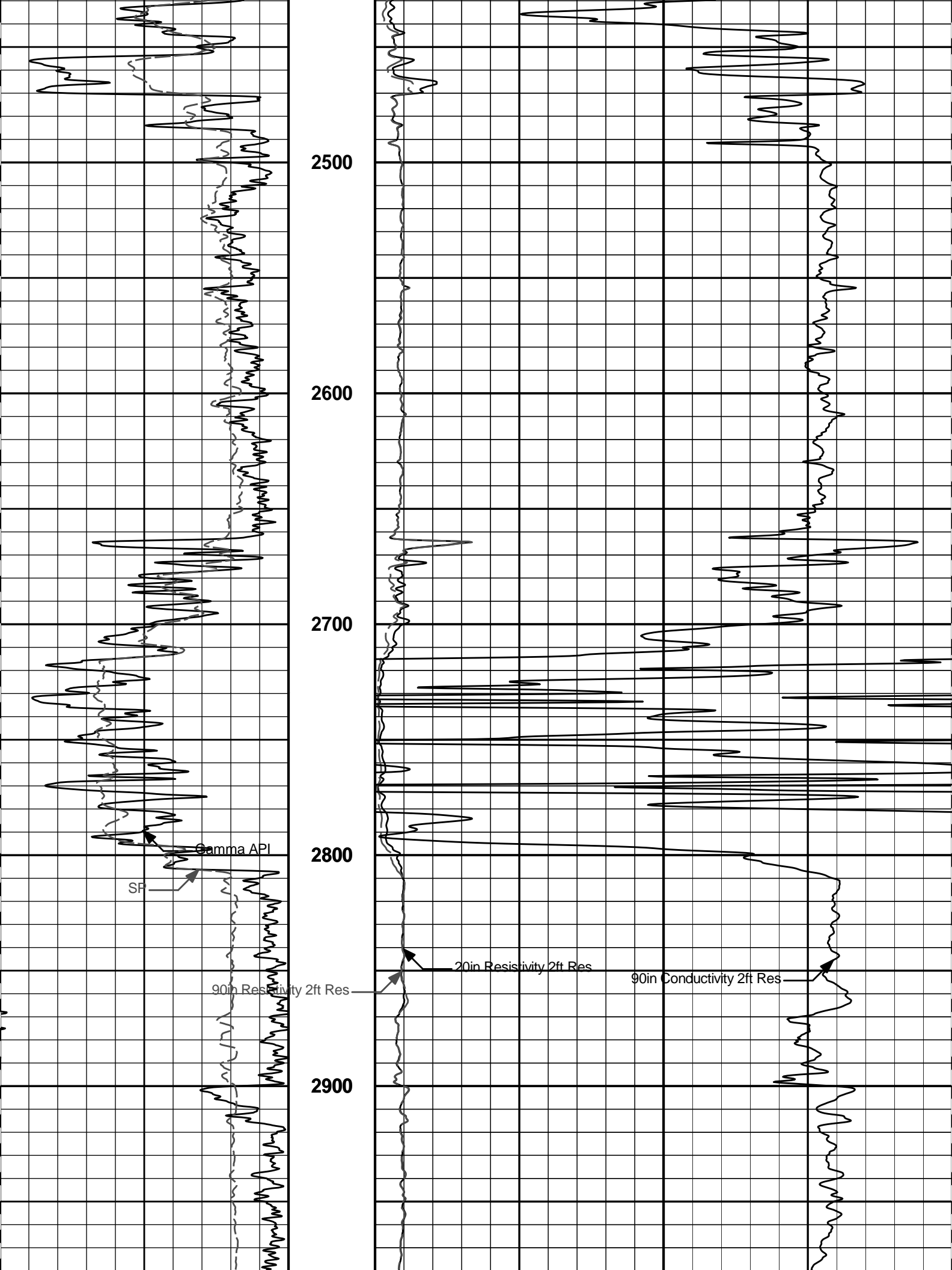
SF

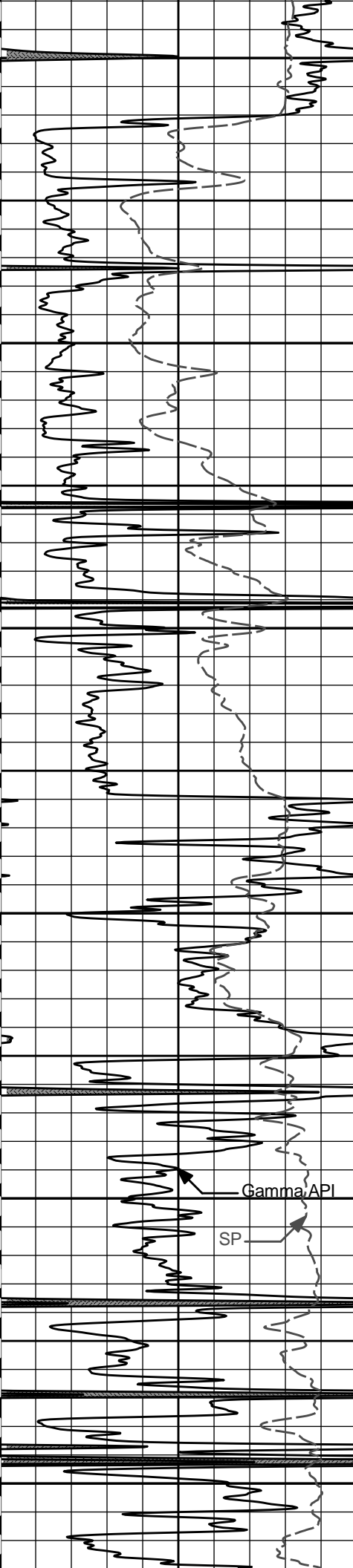
90in Resistivity 2ft Res

20in Resistivity 2ft Res

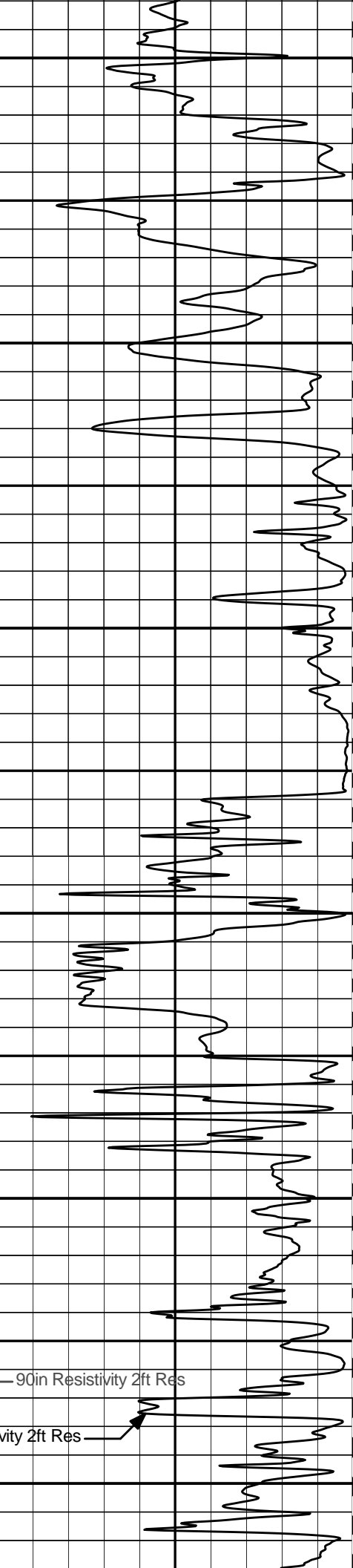
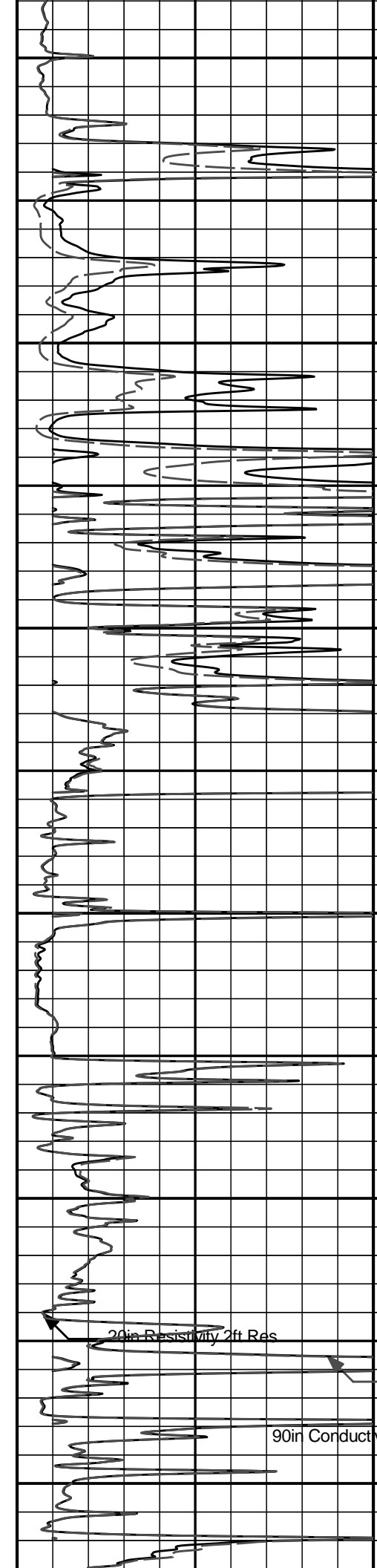
90in Conductivity 2ft Res







3000  
3100  
3200  
3300  
3400  
3500



Gamma API  
SP

20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



3600

3700

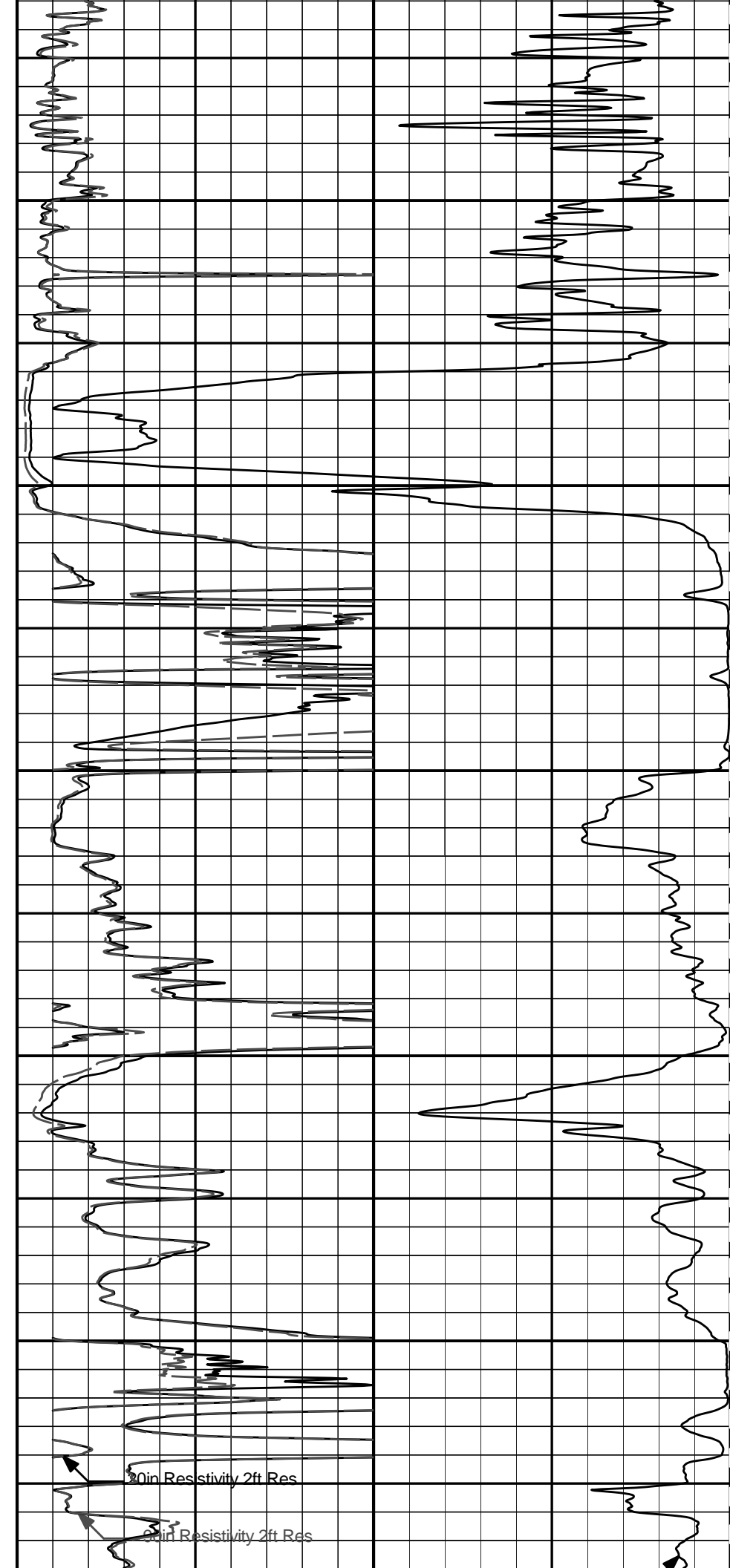
3800

3900

4000

Gamma API

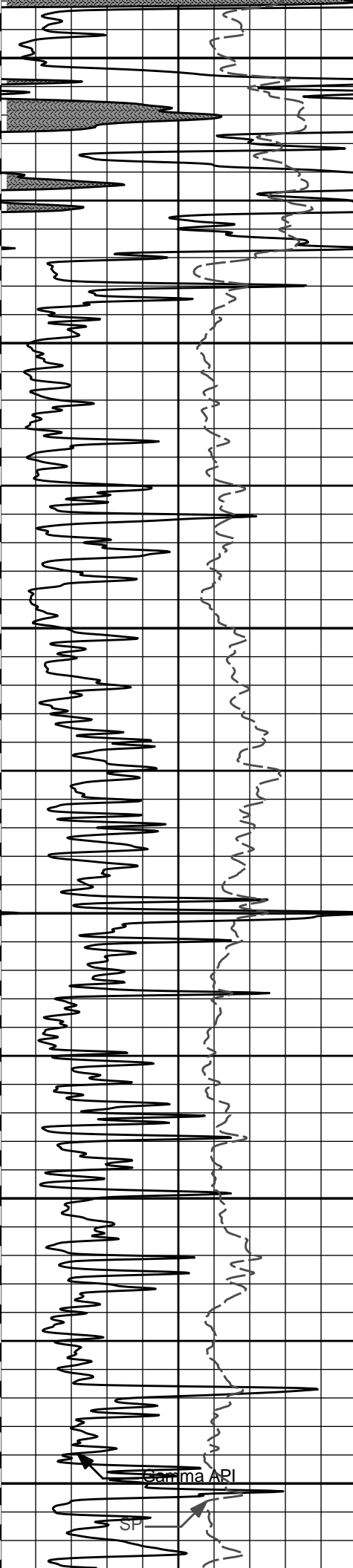
Sp



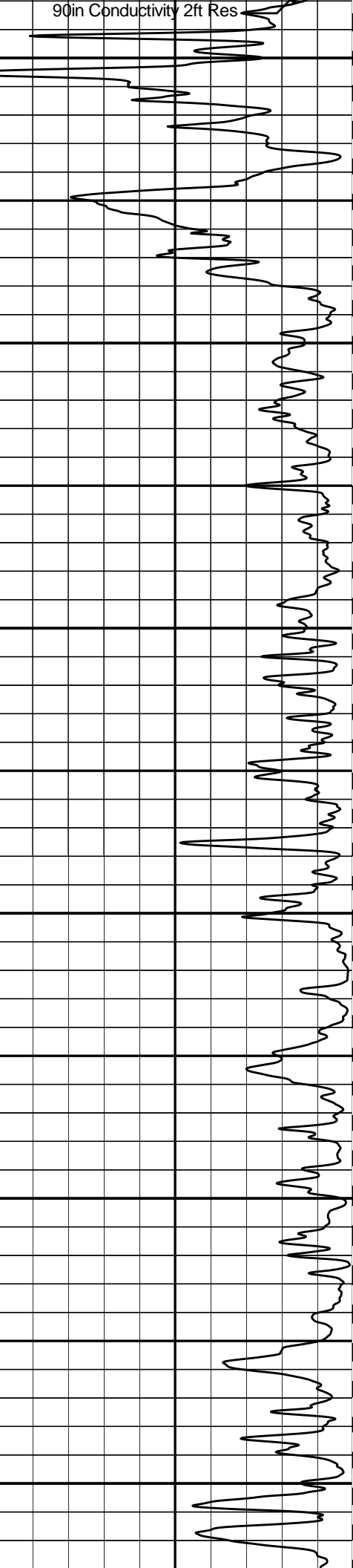
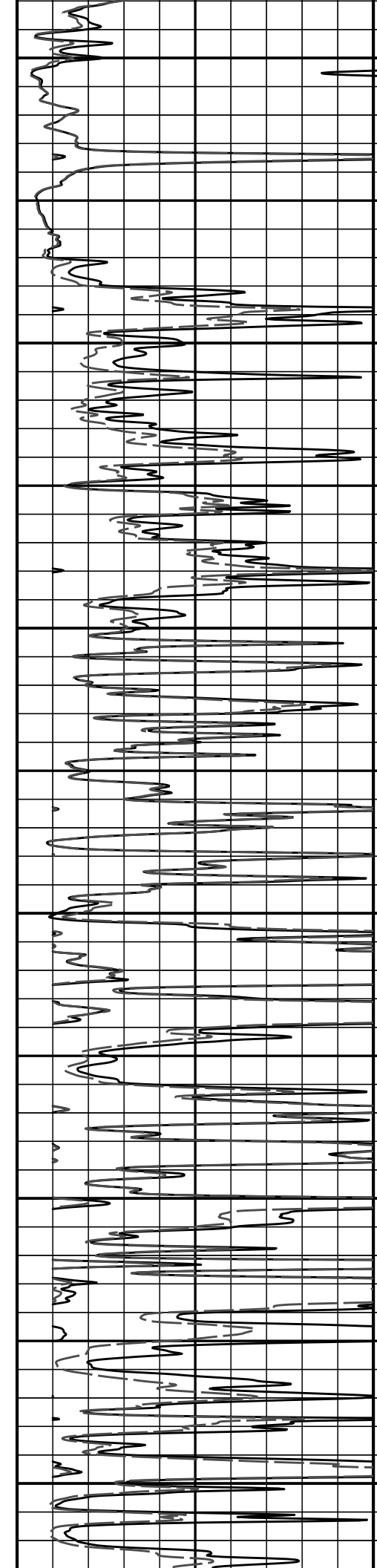
20in Resistivity 2ft Res

20in Resistivity 2ft Res





4100  
4200  
4300  
4400  
4500  
4600



90in Conductivity 2ft Res



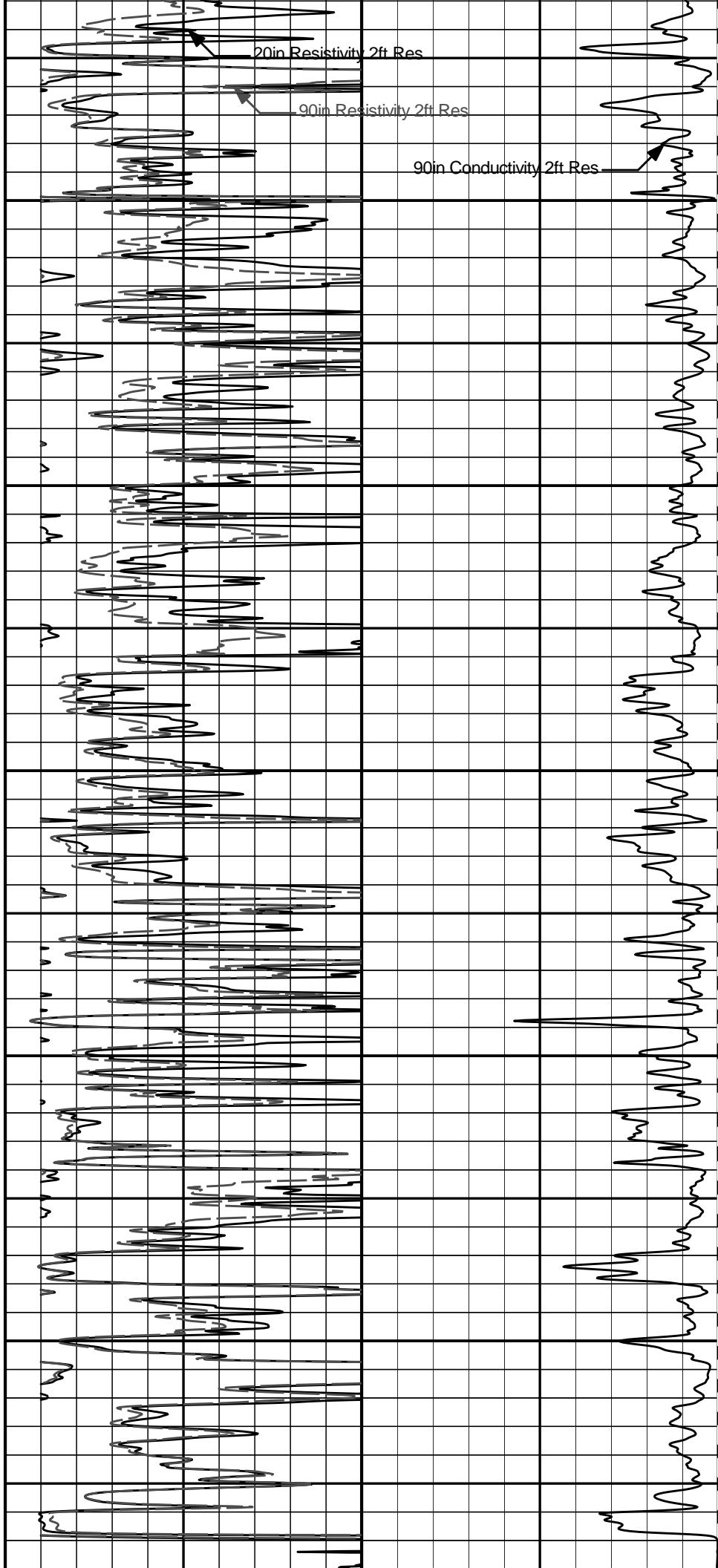
4700

4800

4900

5000

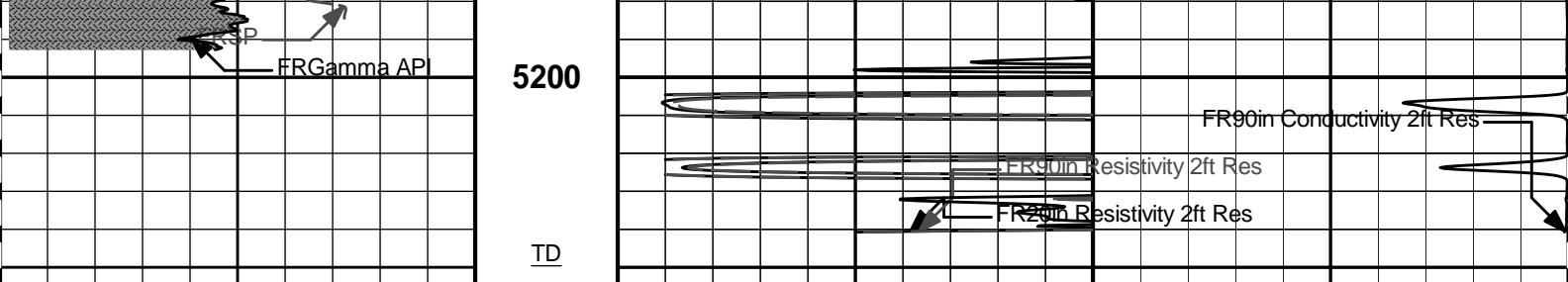
5100



20in Resistivity 2ft Res

90in Resistivity 2ft Res

90in Conductivity 2ft Res



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

**HALLIBURTON**

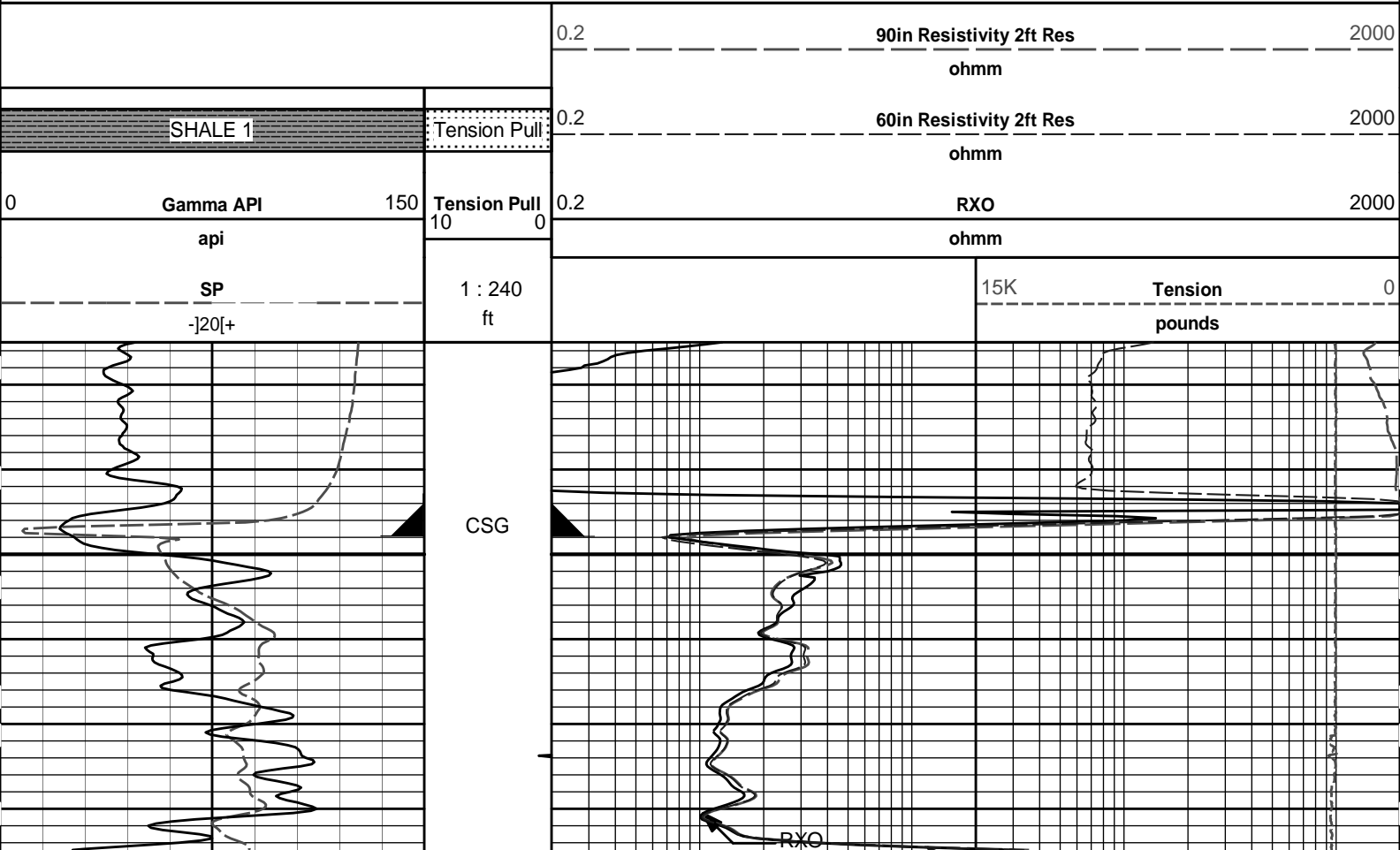
Plot Time: 04-Mar-11 08:12:06  
 Plot Range: 625 ft to 5254.33 ft  
 Data: WELLINGTON\_1\_28\Well Based\DAQ-0001-003\  
 Plot File: \\-LOCAL-WELLINGTON\_1\_28\Well Based\ACRT\ACRT\_2\_lib

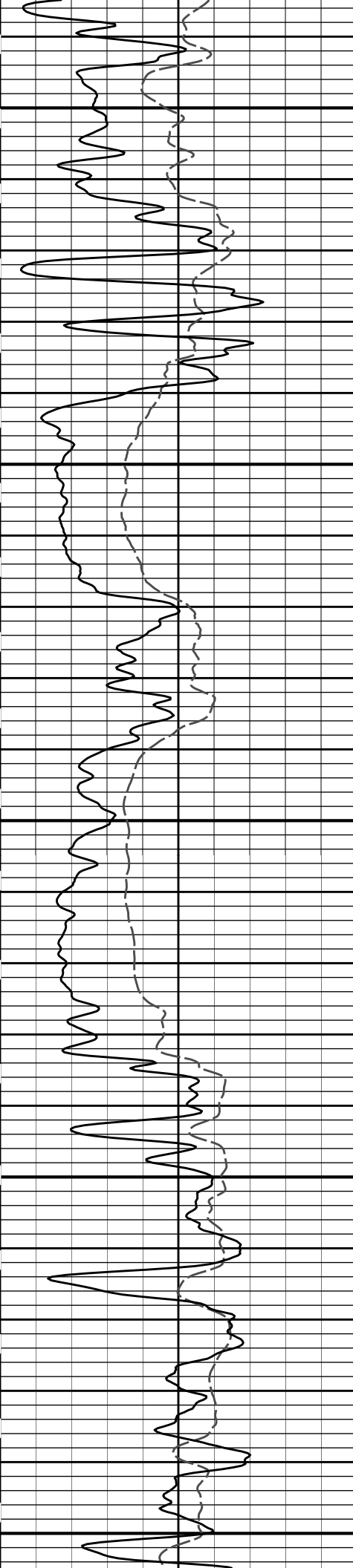
## 2 INCH MAIN LOG

**HALLIBURTON**

Plot Time: 04-Mar-11 08:12:06  
 Plot Range: 625 ft to 5254.33 ft  
 Data: WELLINGTON\_1\_28\Well Based\DAQ-0001-003\  
 Plot File: \\-LOCAL-WELLINGTON\_1\_28\Well Based\ACRT\EOG\_ACRT\_5\_MAIN\_LIB

## 5 INCH MAIN LOG

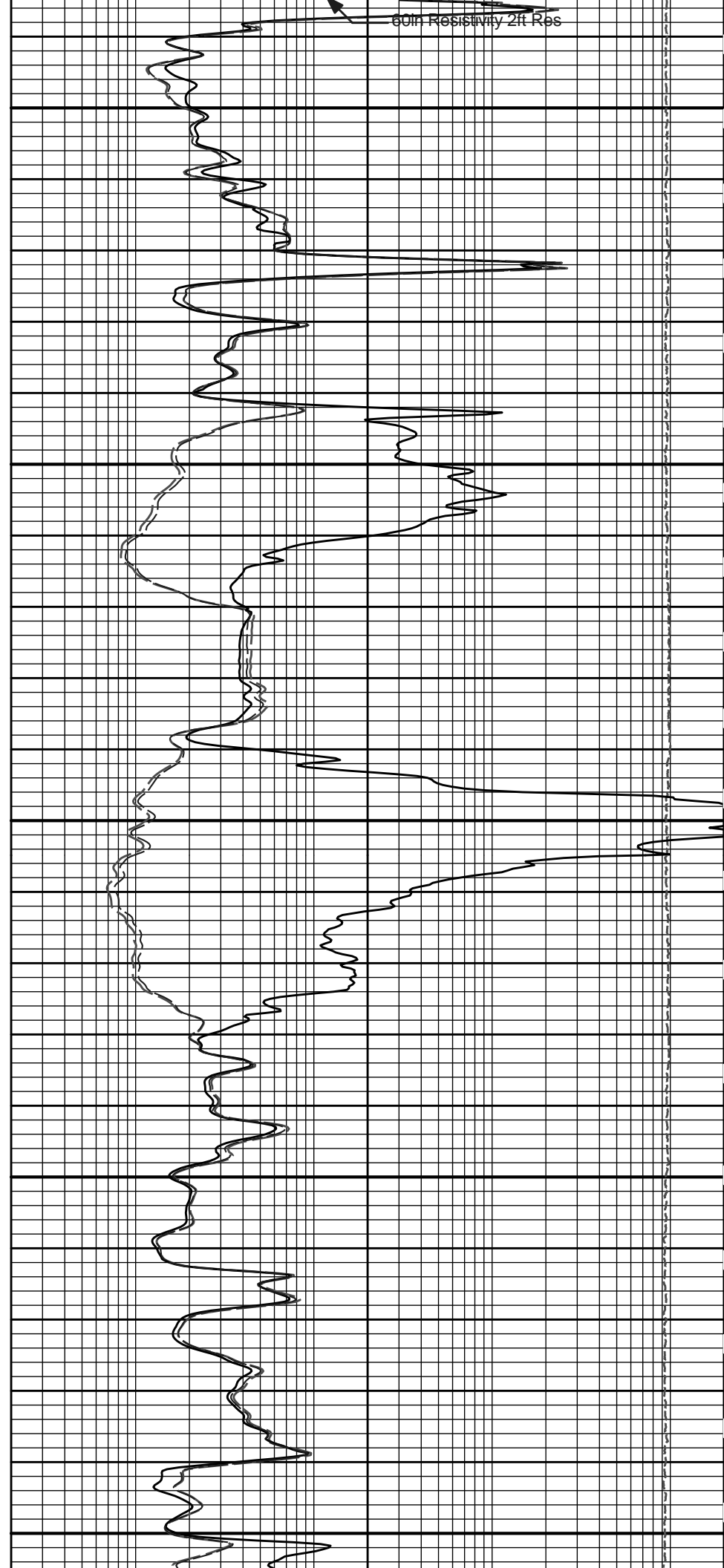




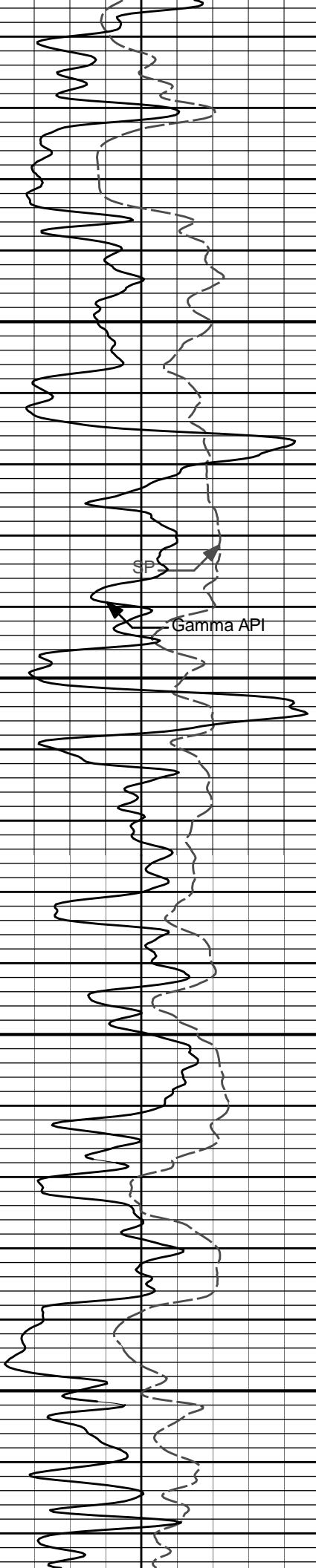
700

800

900



60in Resistivity 2ft Res



60in Resistivity 2ft Res

R<sub>60</sub>

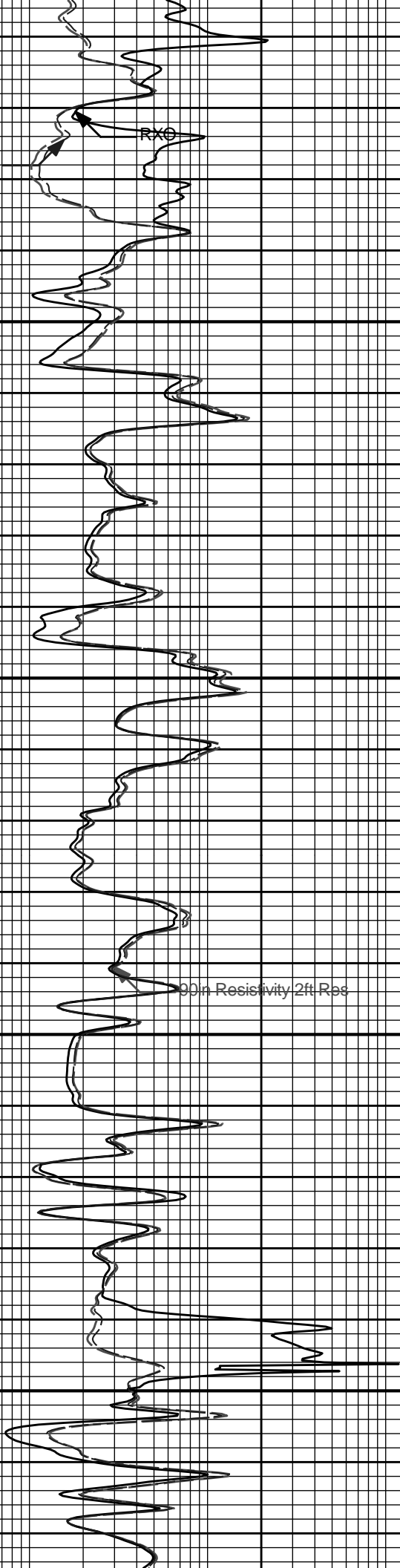
SP

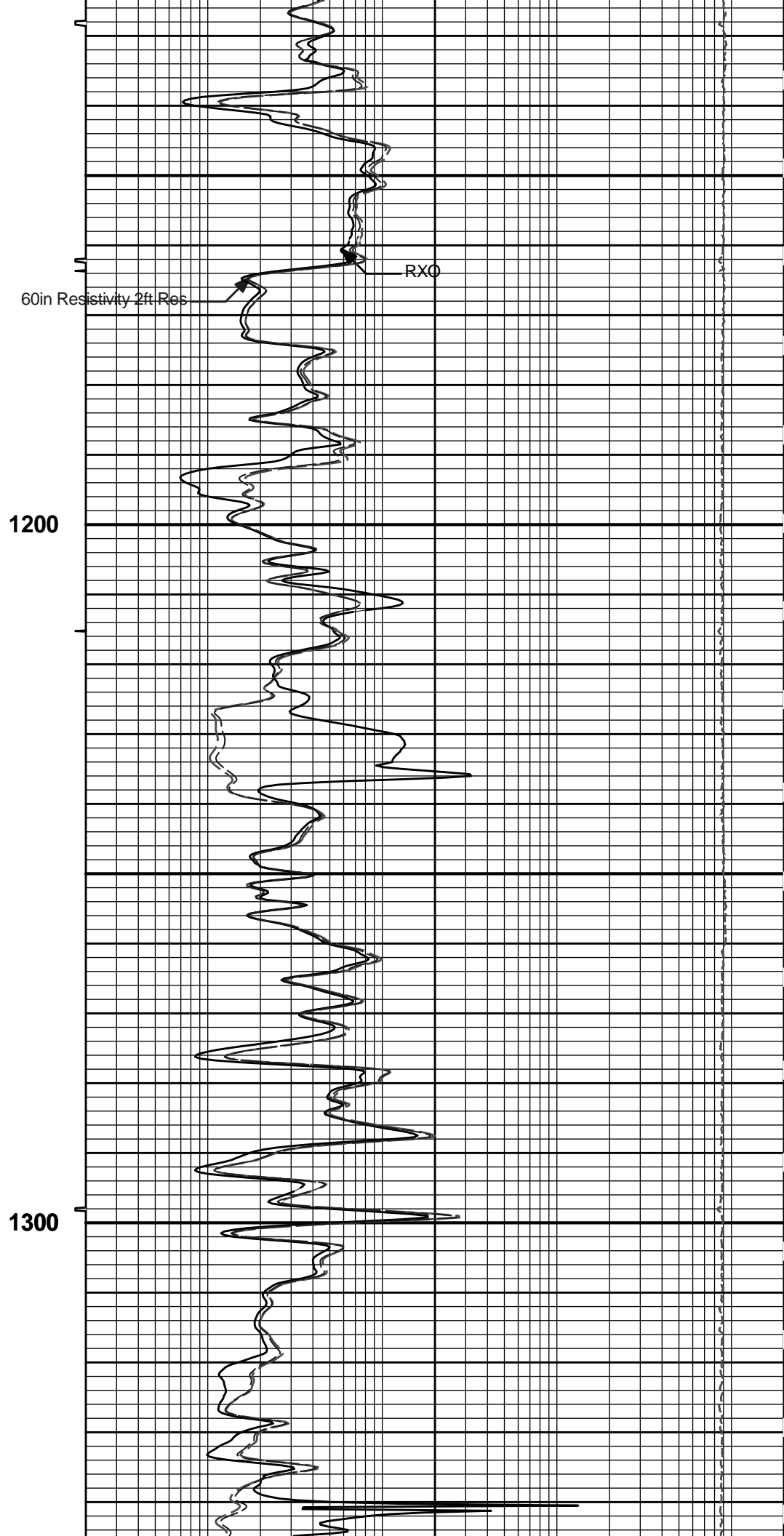
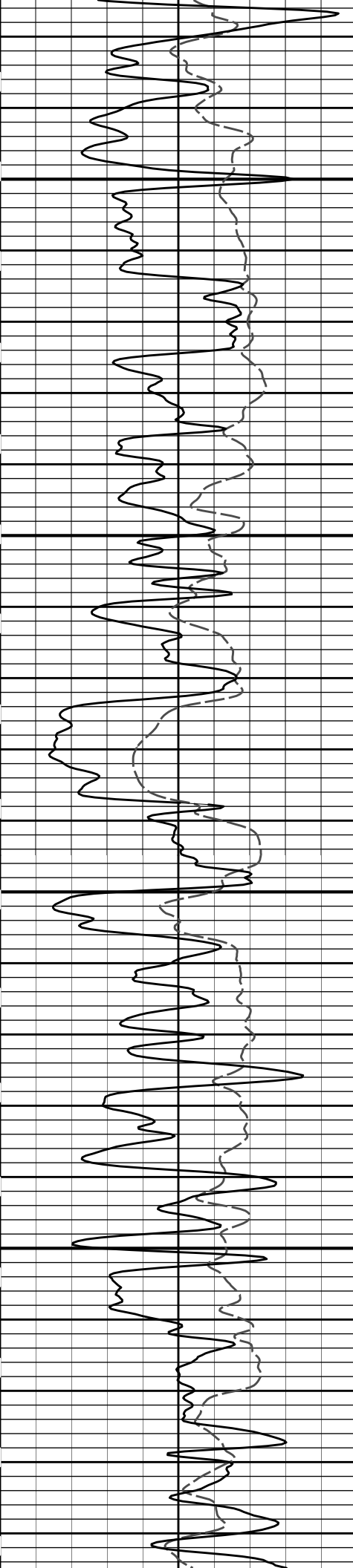
Gamma API

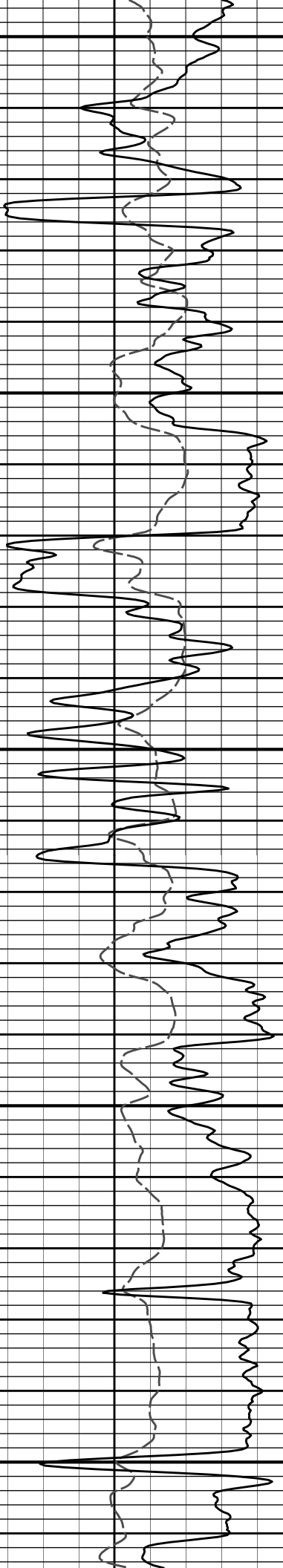
1000

90in Resistivity 2ft Res

1100





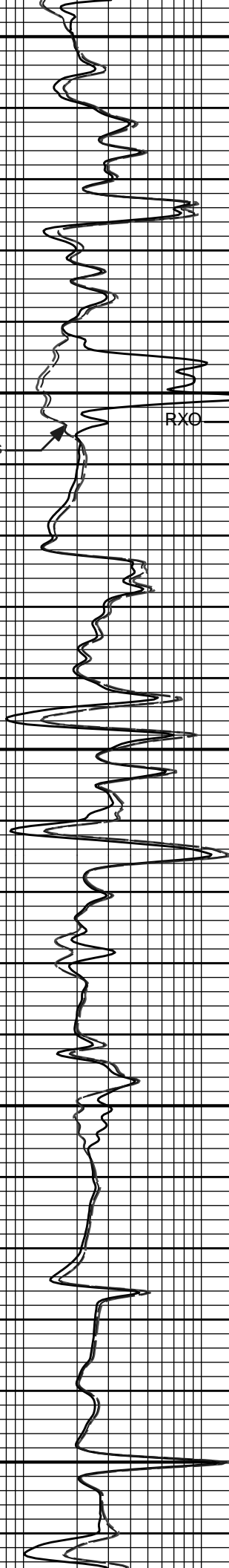


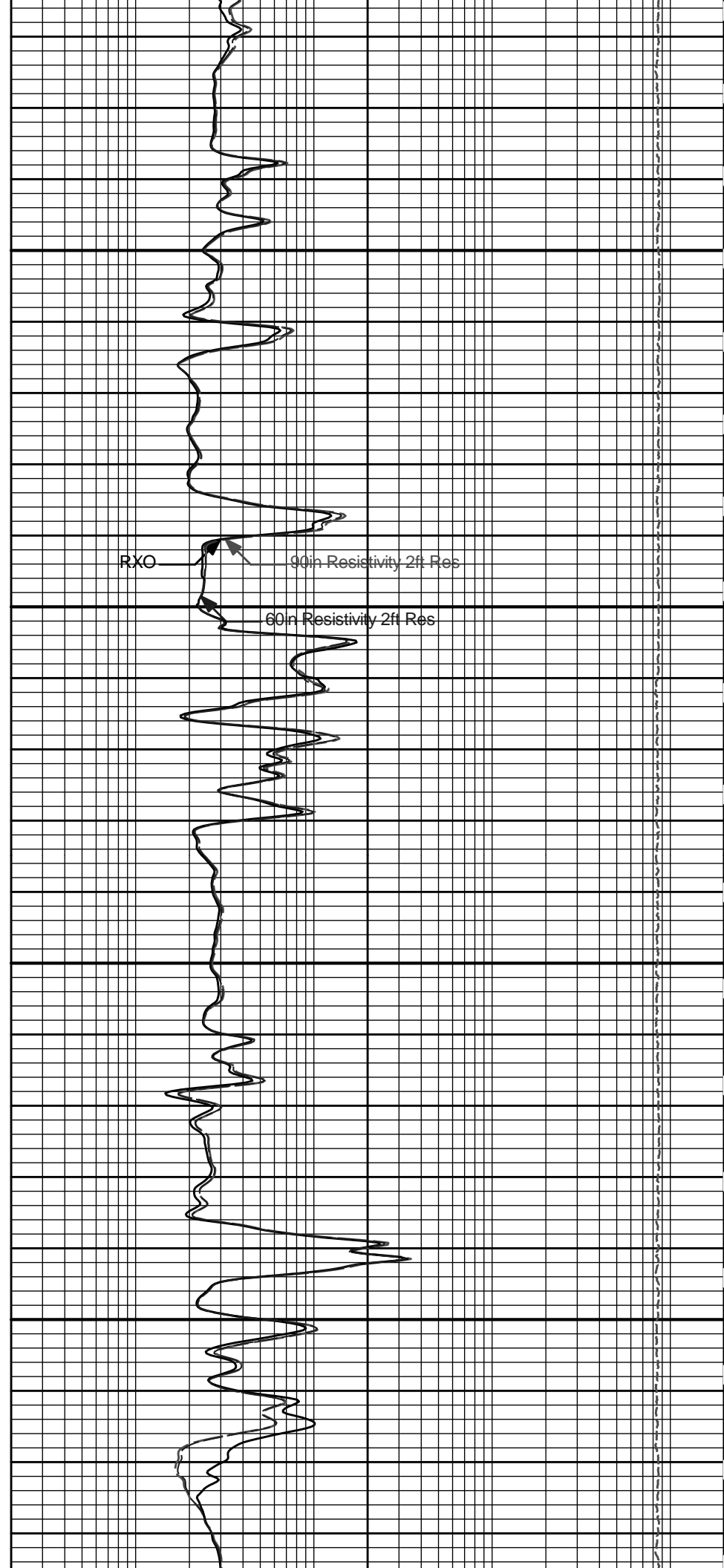
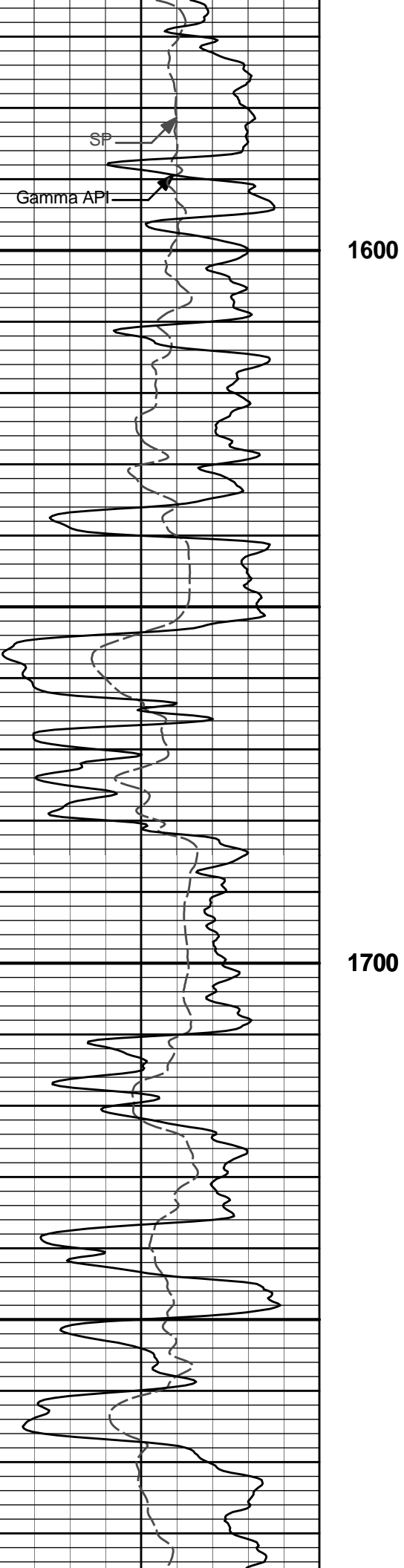
1400

60in Resistivity 2ft. Res

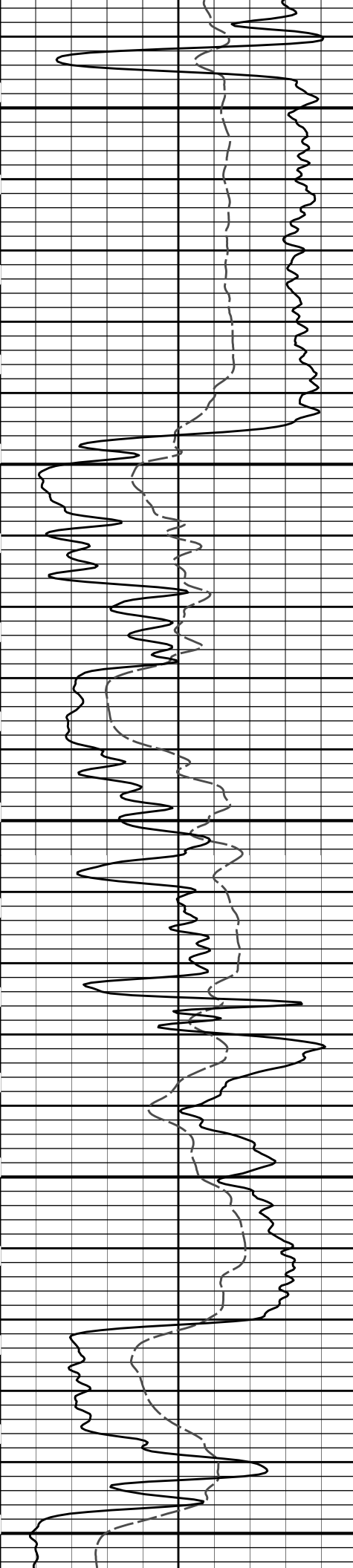
R<sub>XO</sub>

1500





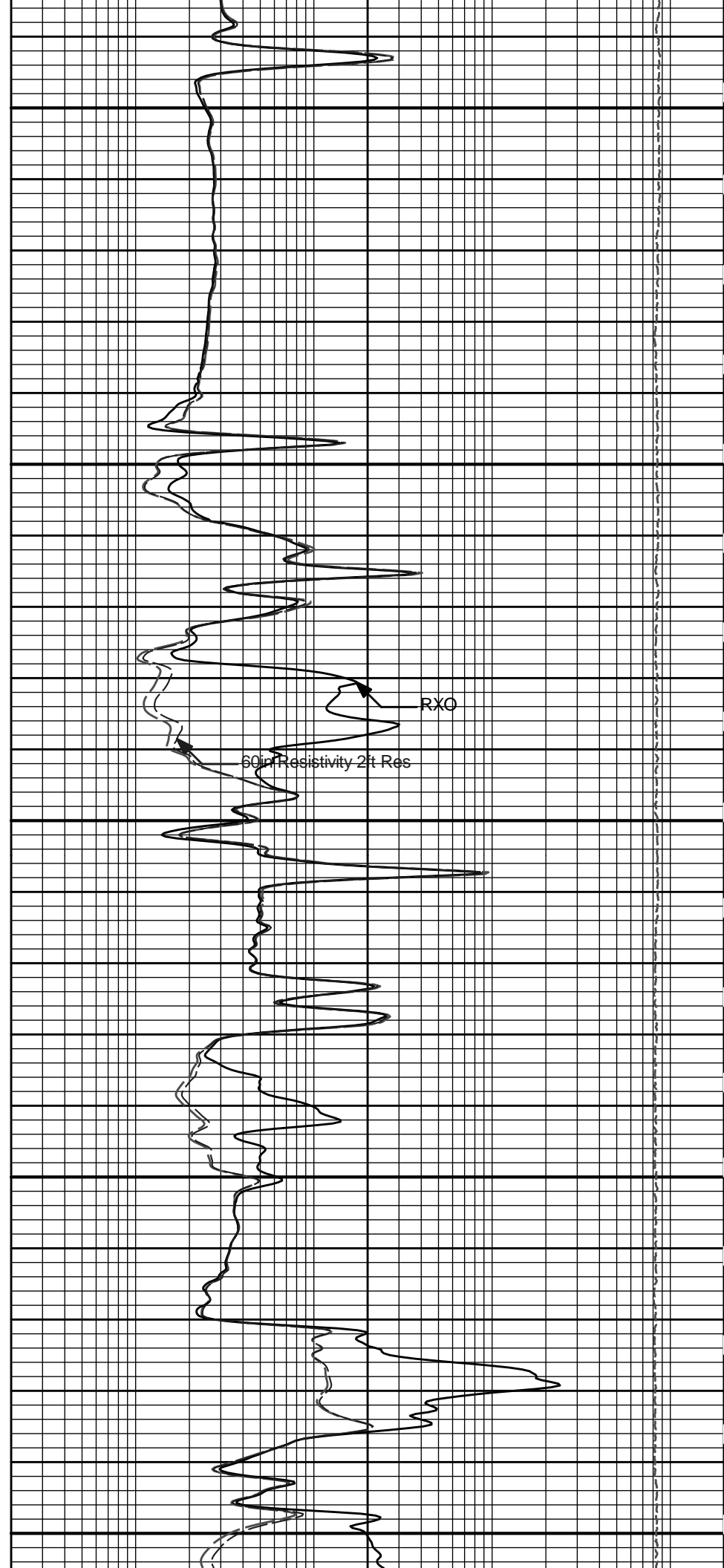




1800

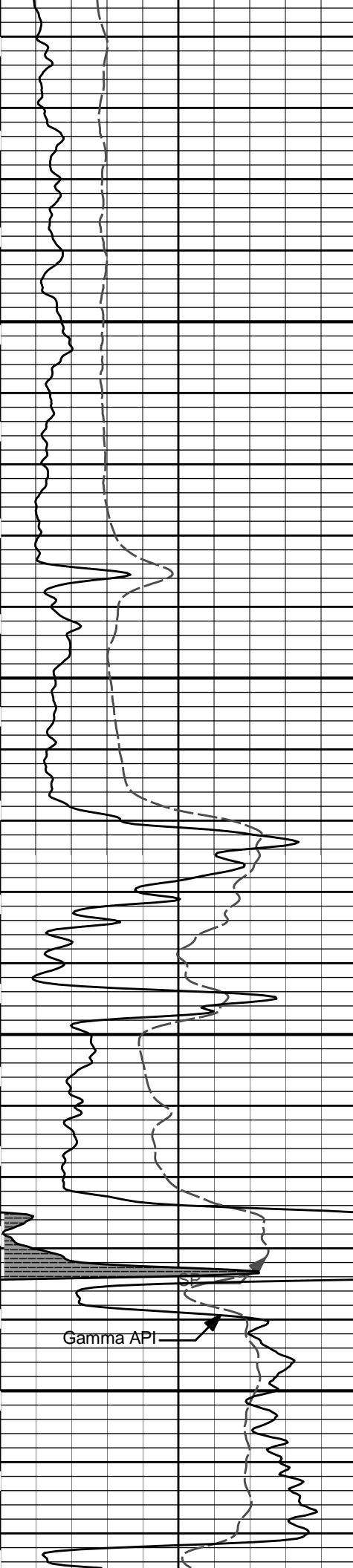
1900

2000



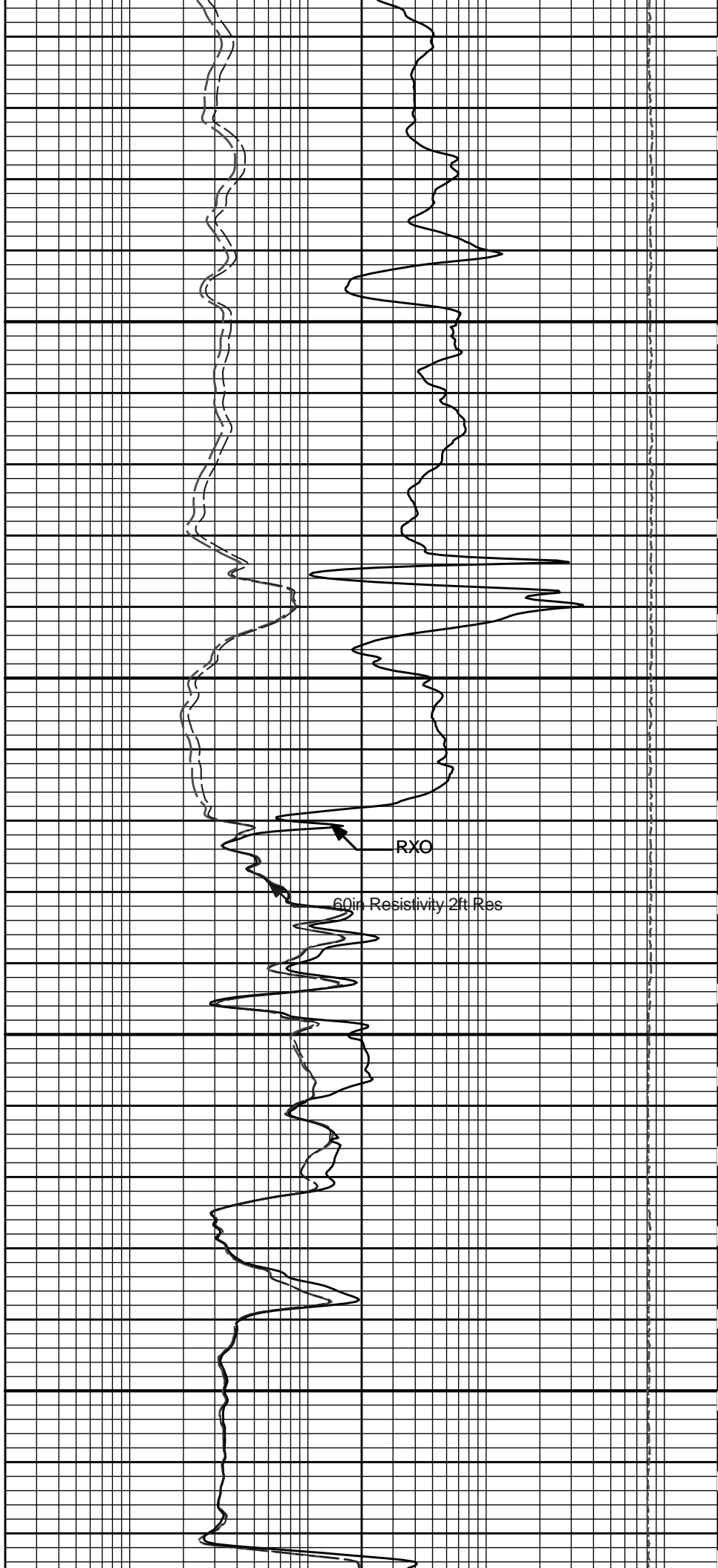
RXO

60 in Resistivity 2ft Res



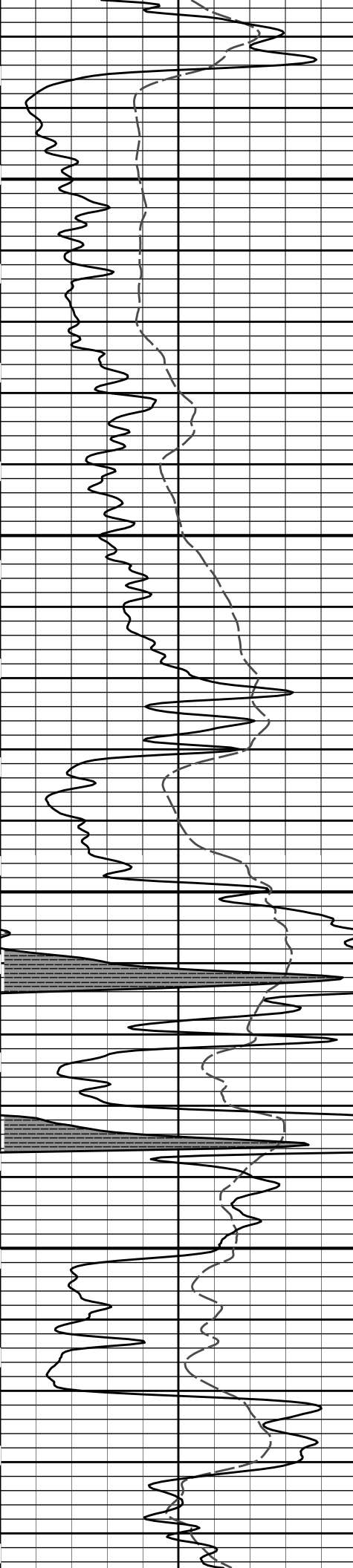
2100

2200



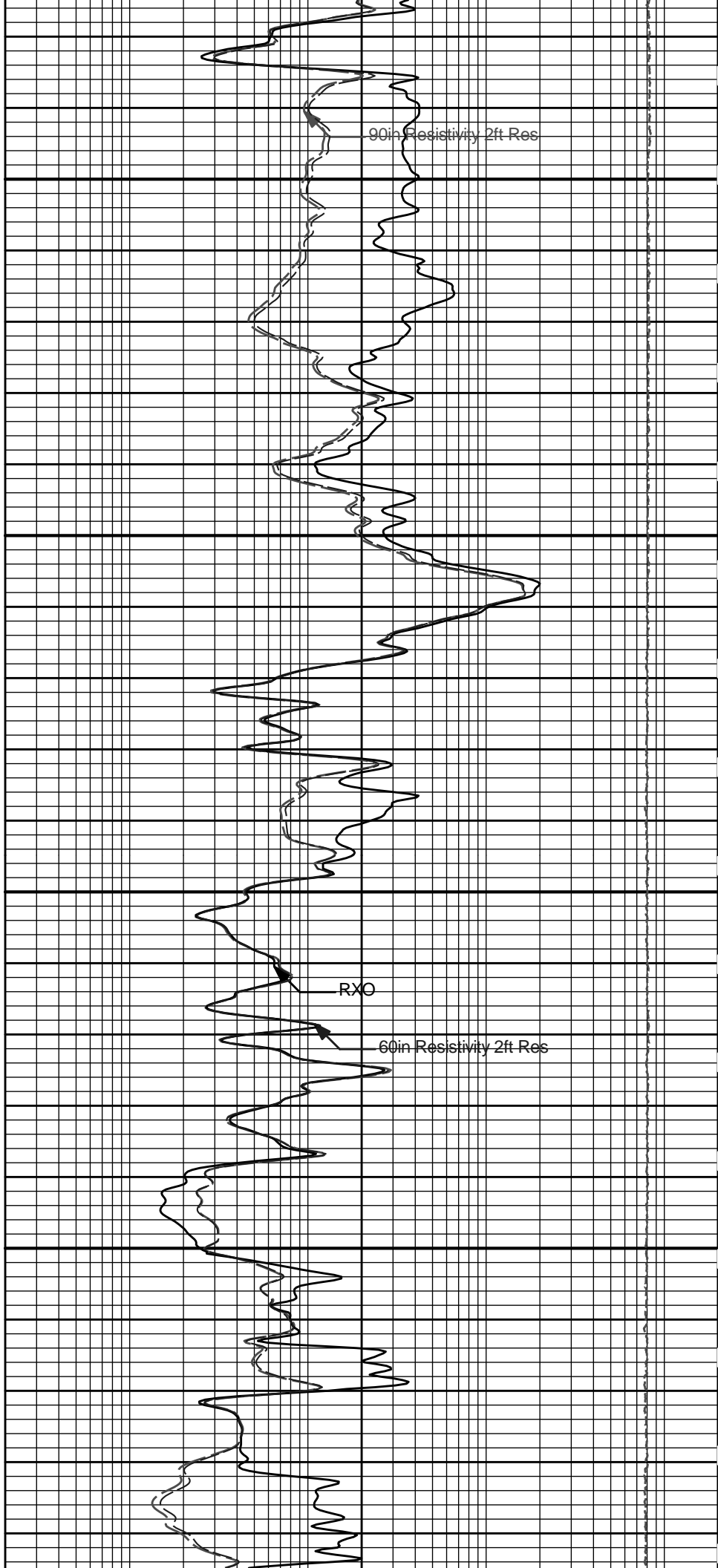
RXO

60in Resistivity 2ft Res



2300

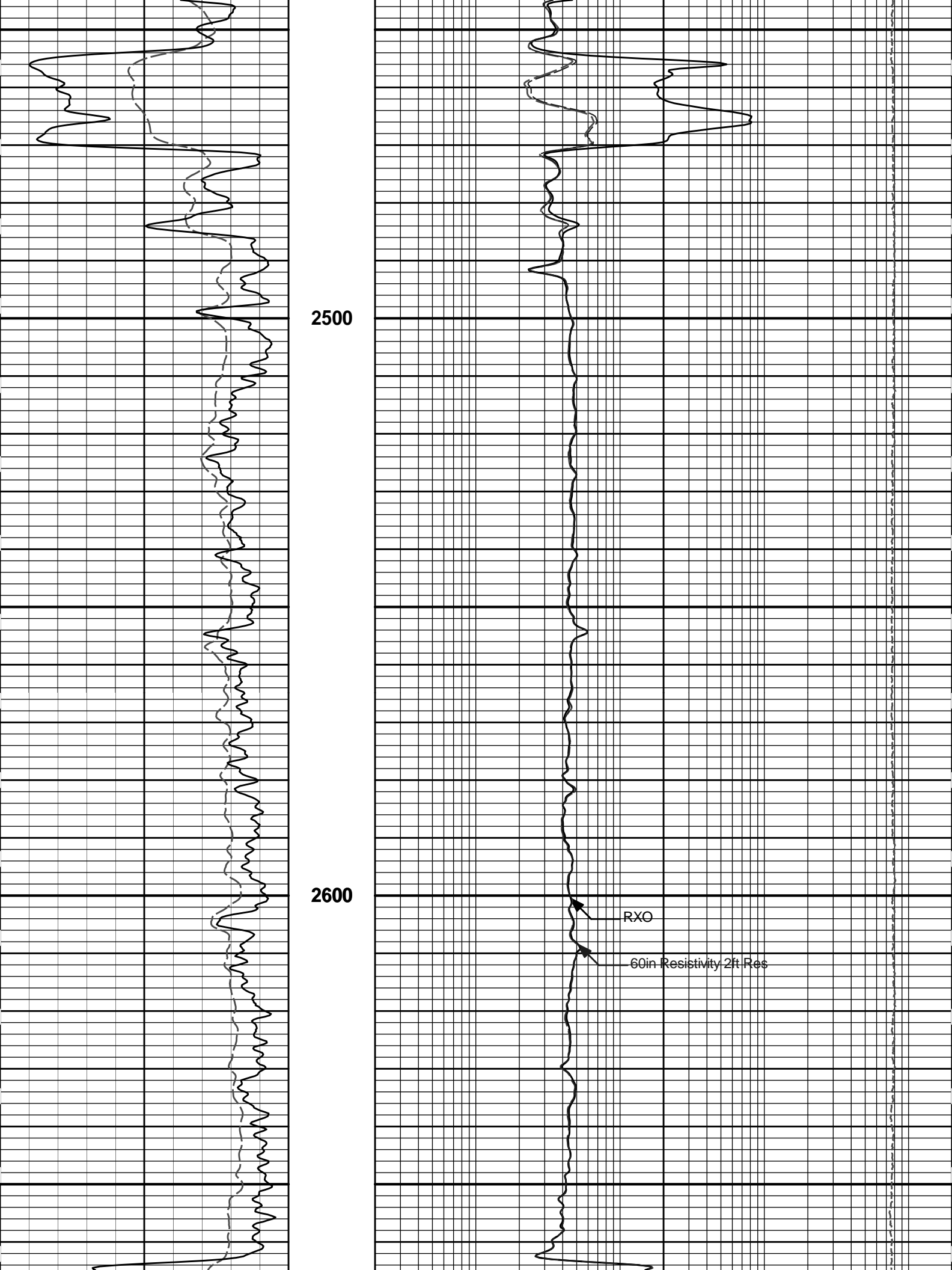
2400



90in Resistivity 2ft Res

RXO

60in Resistivity 2ft Res

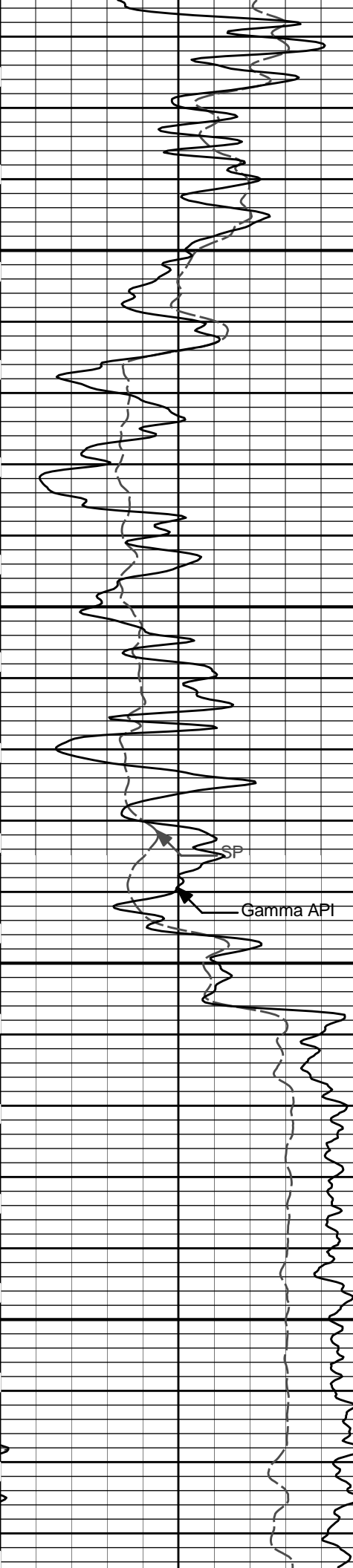


2500

2600

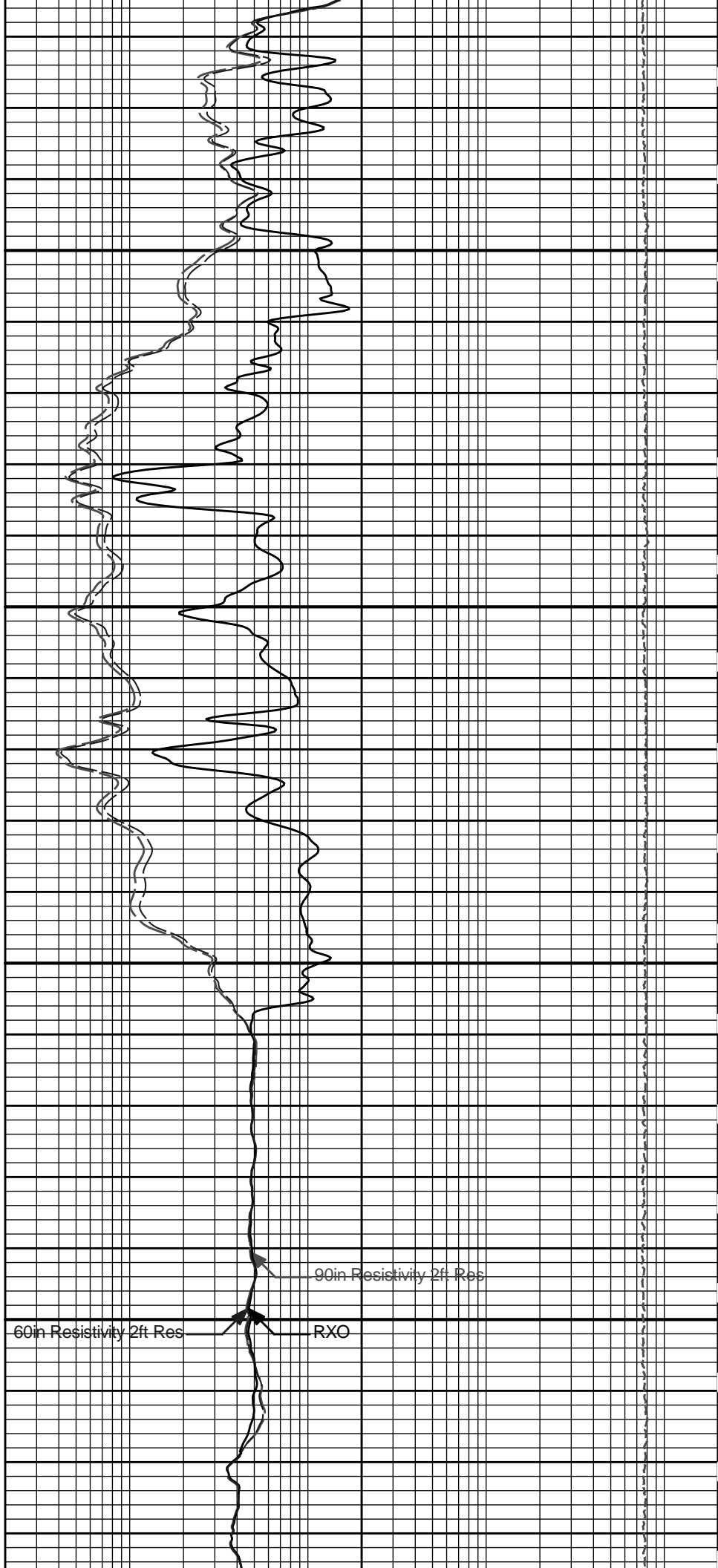
RXO

60in Resistivity 2ft Res



2700

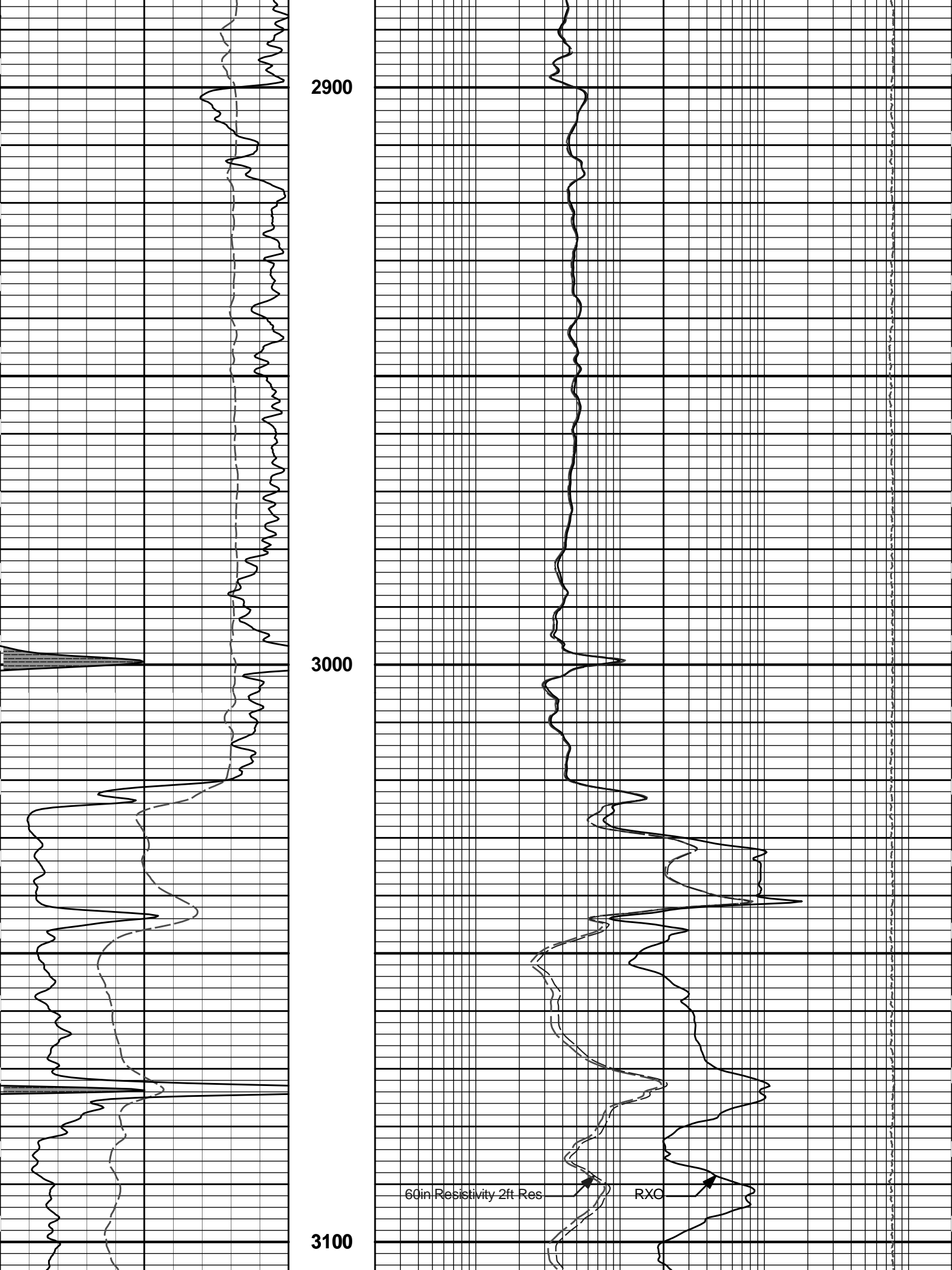
2800



90in Resistivity 2ft Res

60in Resistivity 2ft Res

RXO



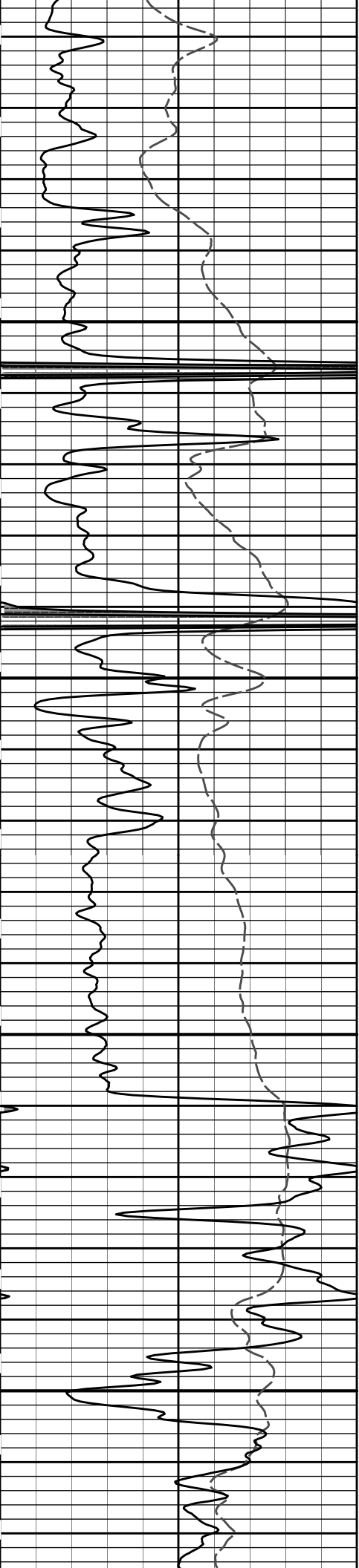
2900

3000

3100

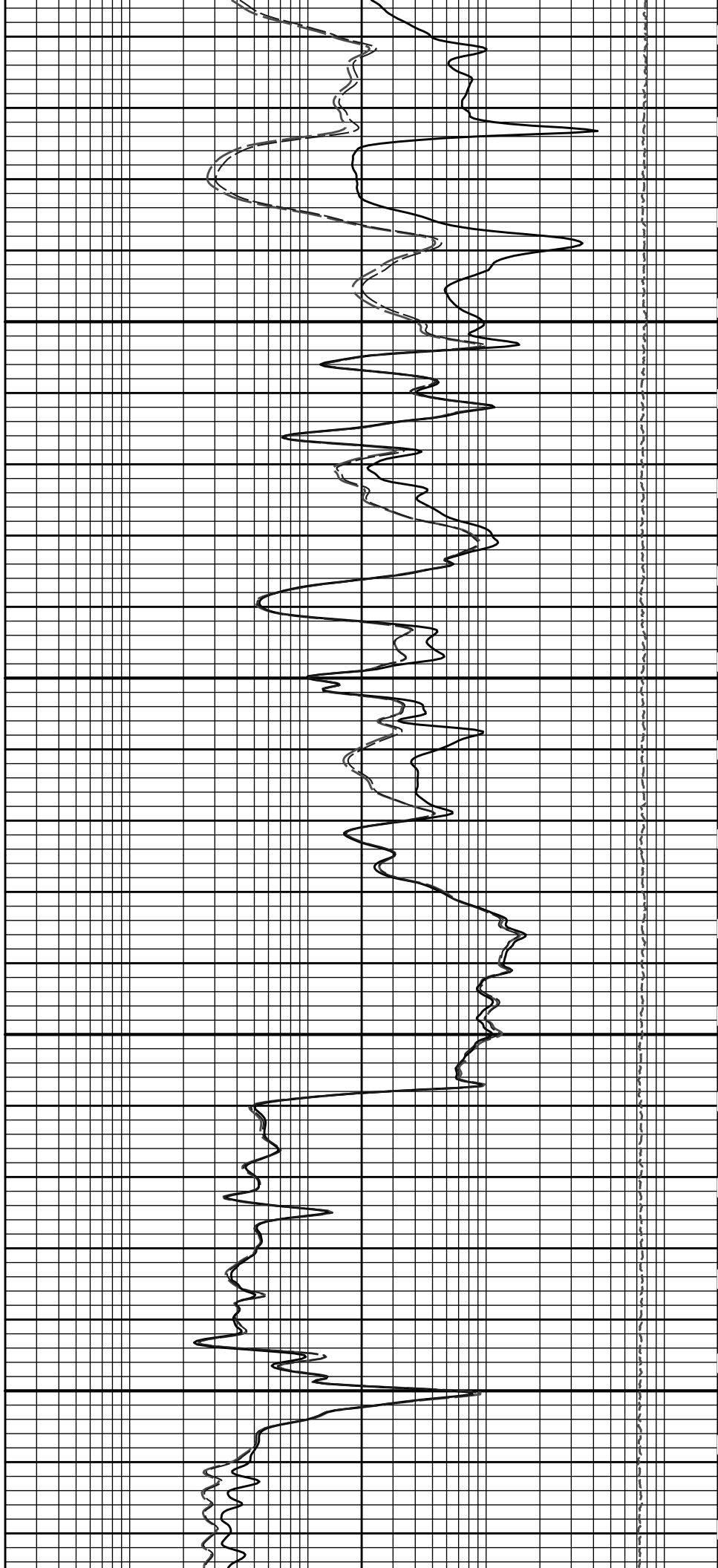
60in Resistivity 2ft Res

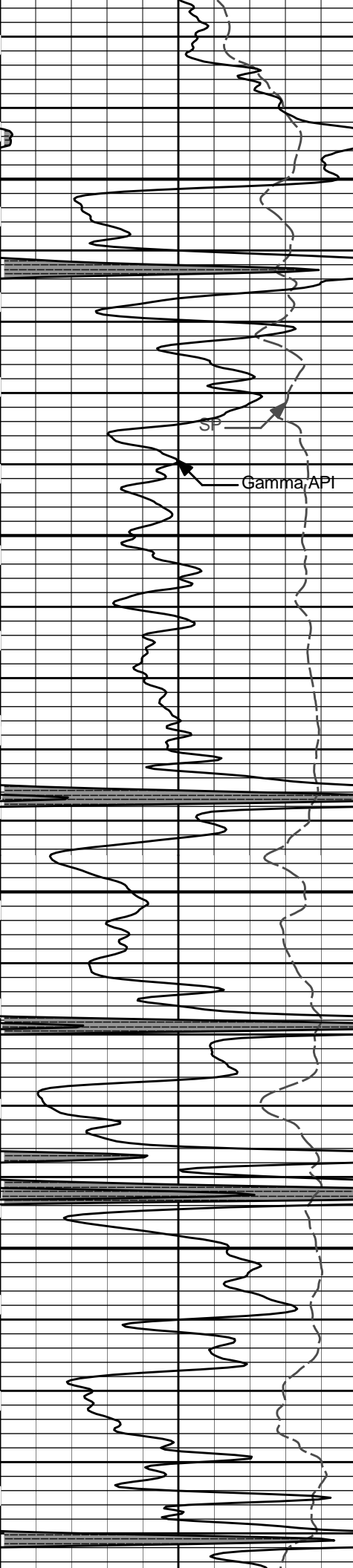
RXO



3200

3300





60in Resistivity 2ft Res

RXO

Gamma API

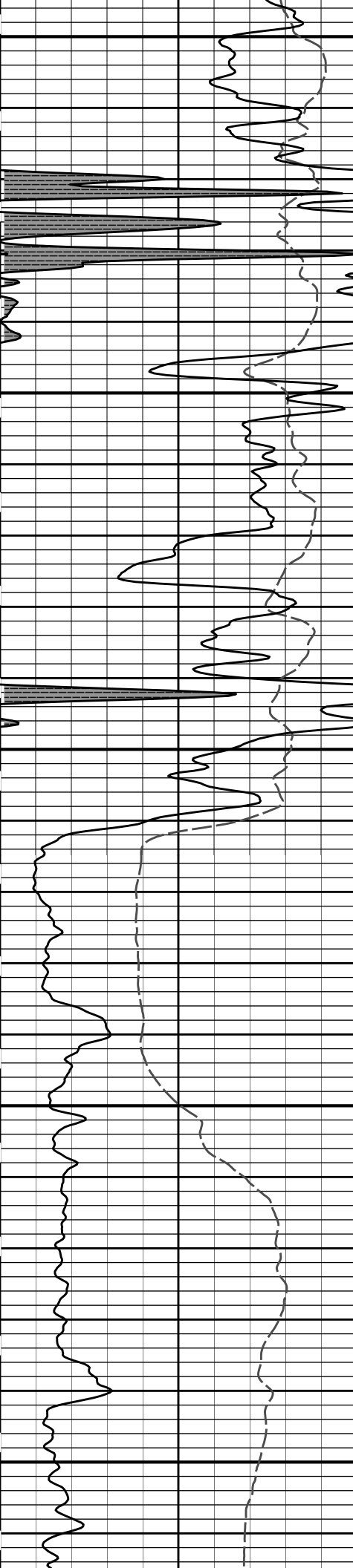
3400

60in Resistivity 2ft Res

3500

Vertical text on the right edge of the log, likely a well identifier or depth scale, though the characters are small and difficult to read.



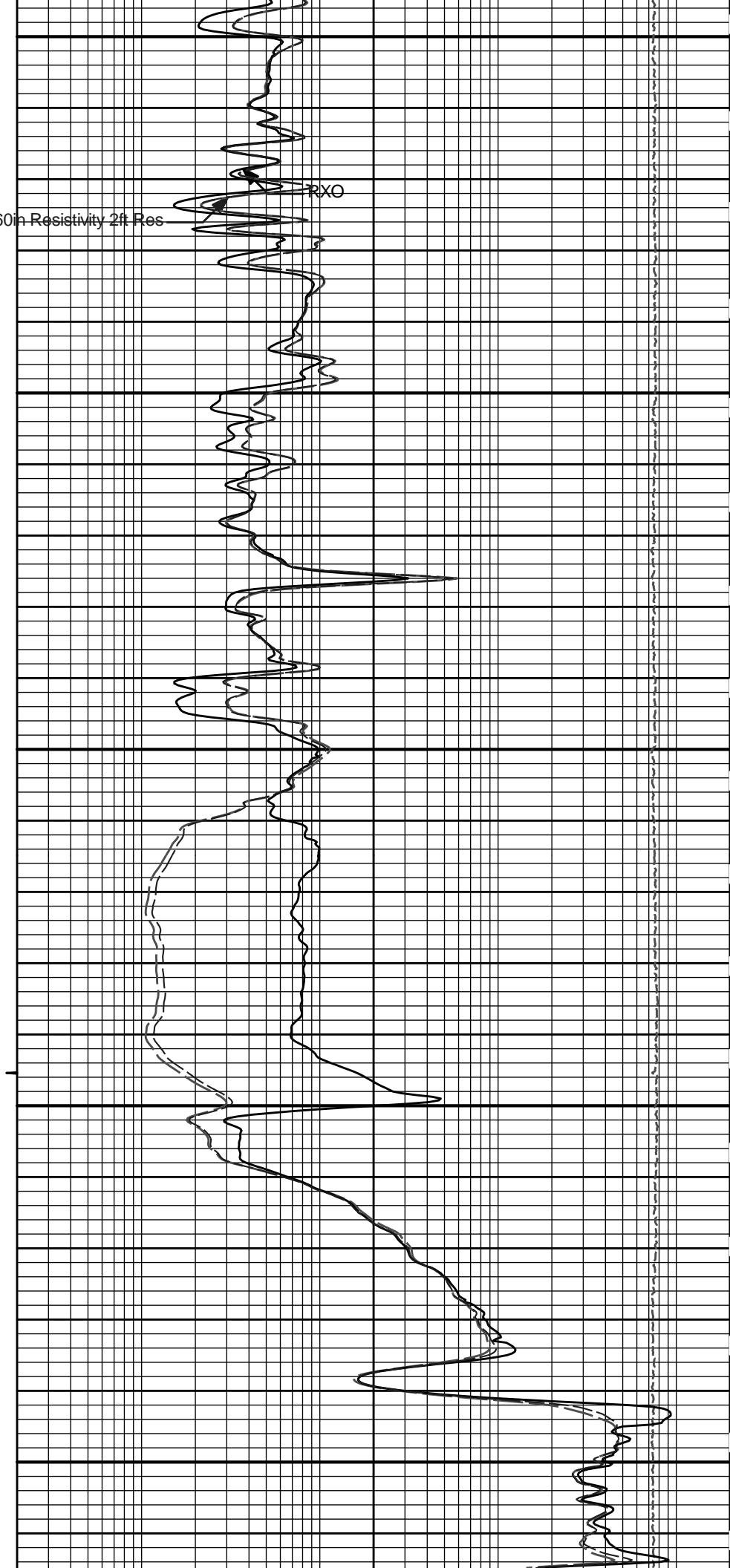


3600

3700

60in Resistivity 2ft Res

RXO



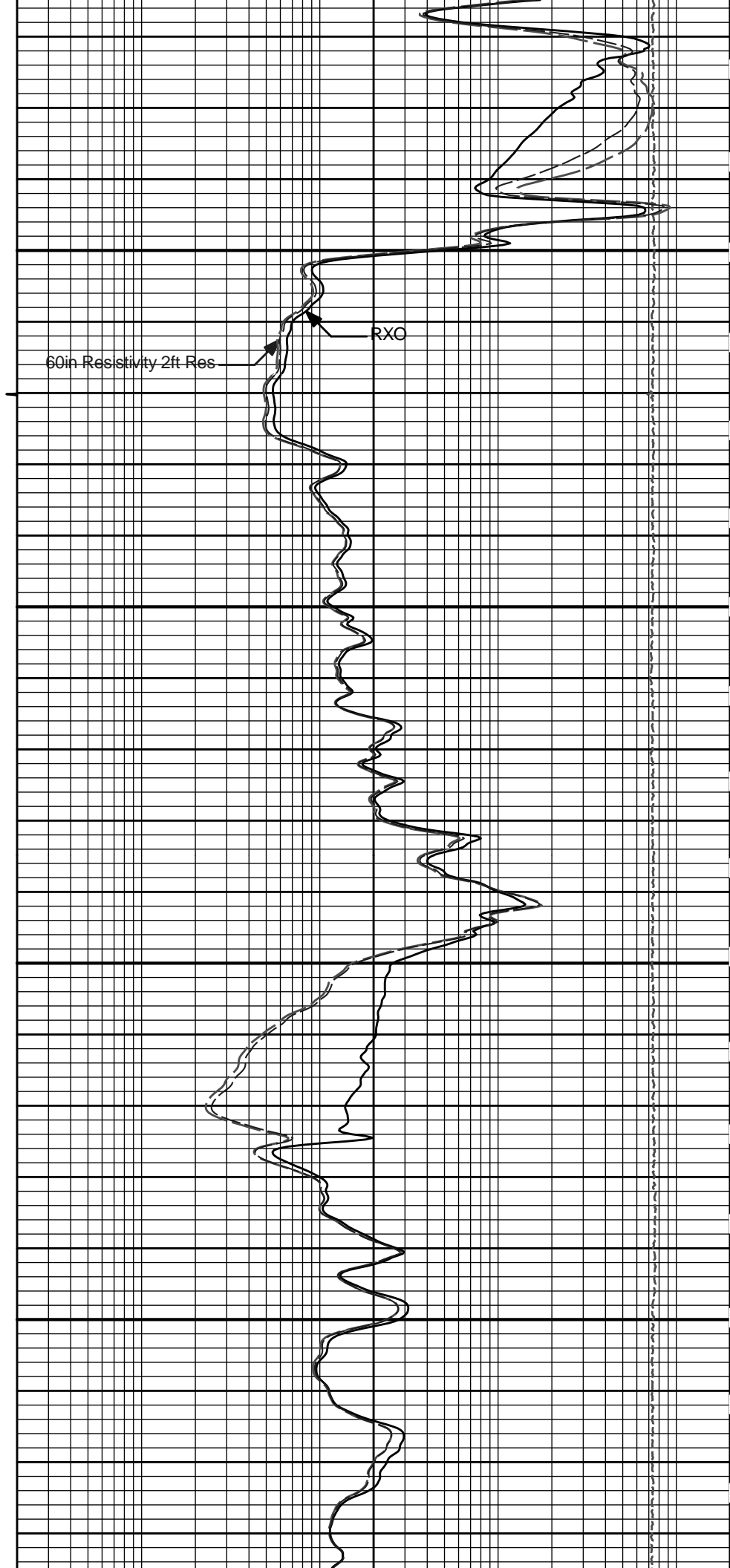


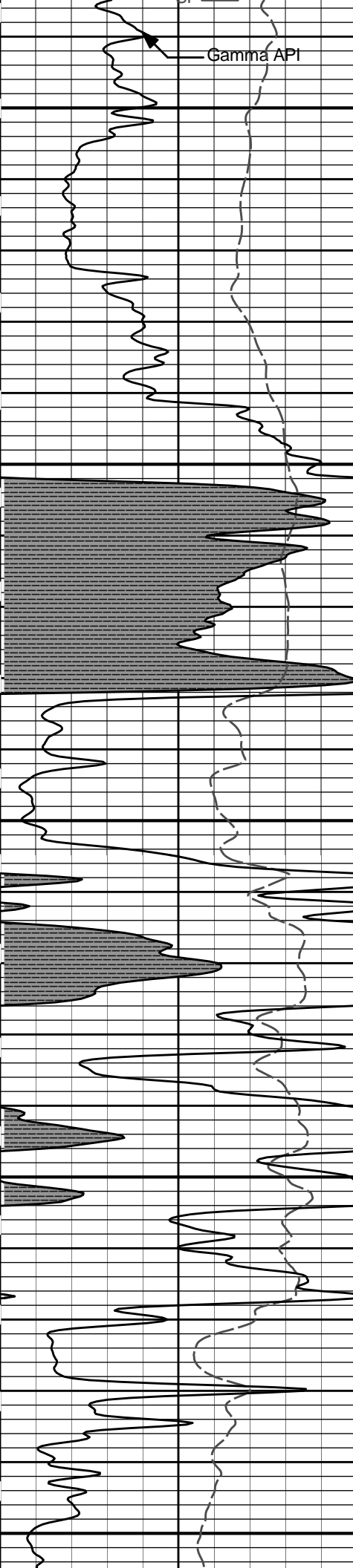
3800

60in Resistivity 2ft Res

RXC

3900



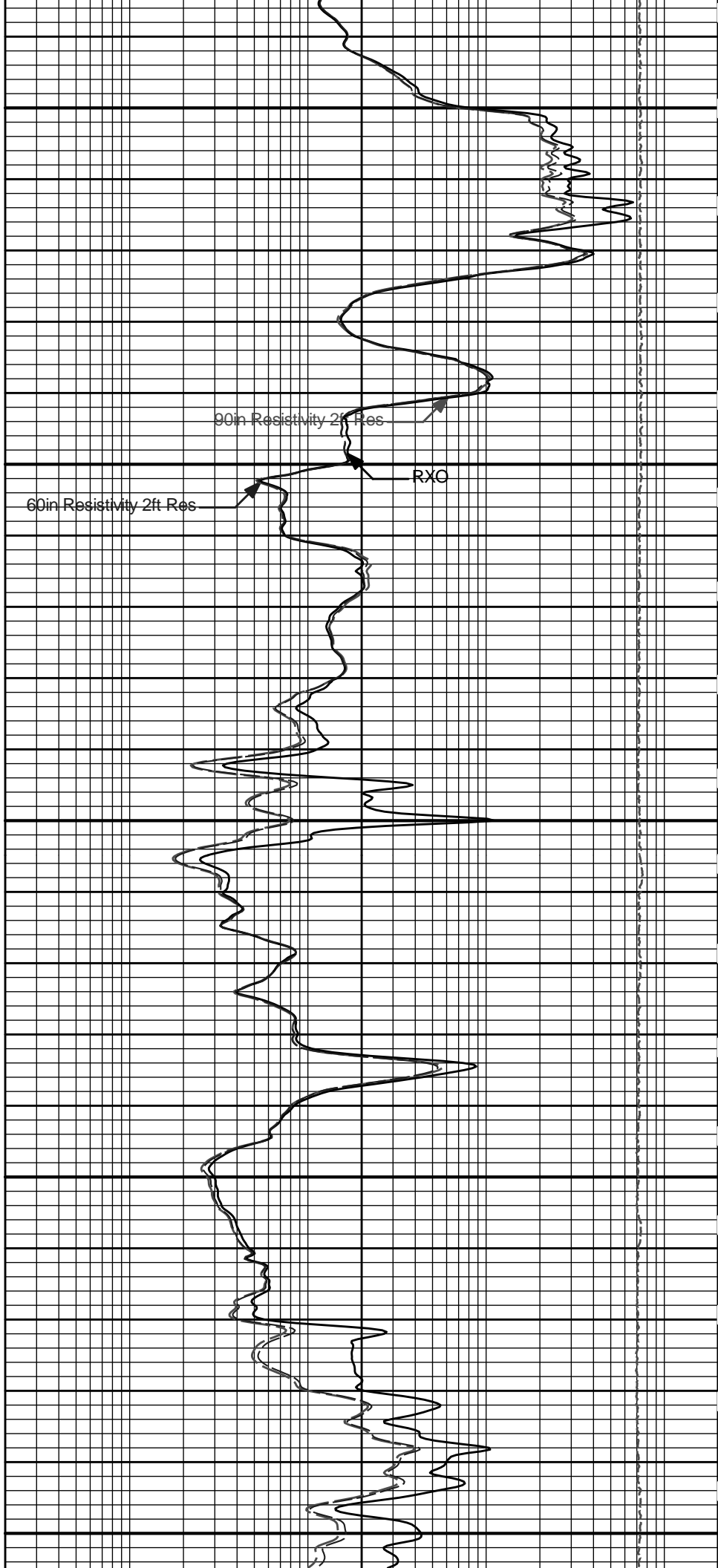


Gamma API

4000

4100

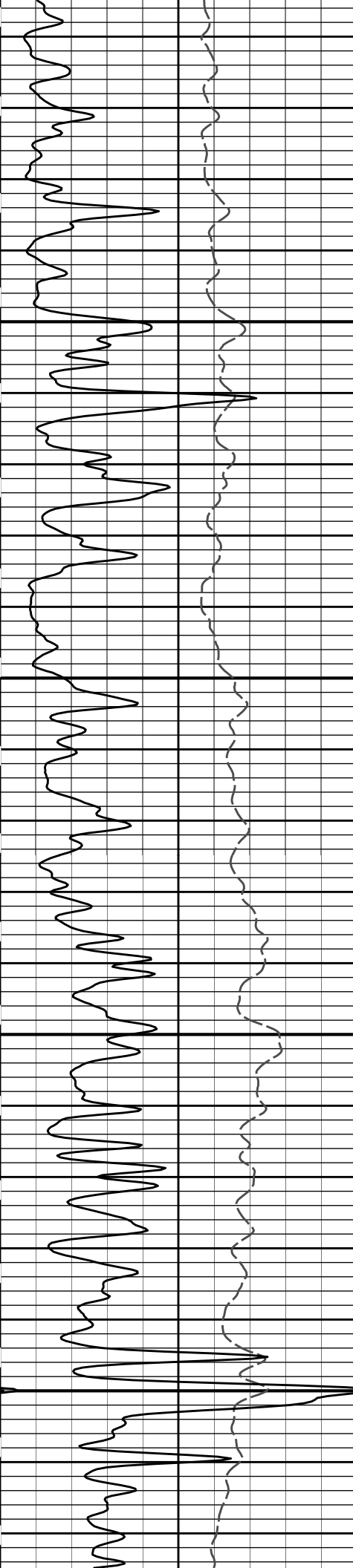
4200



90in Resistivity 2ft Res

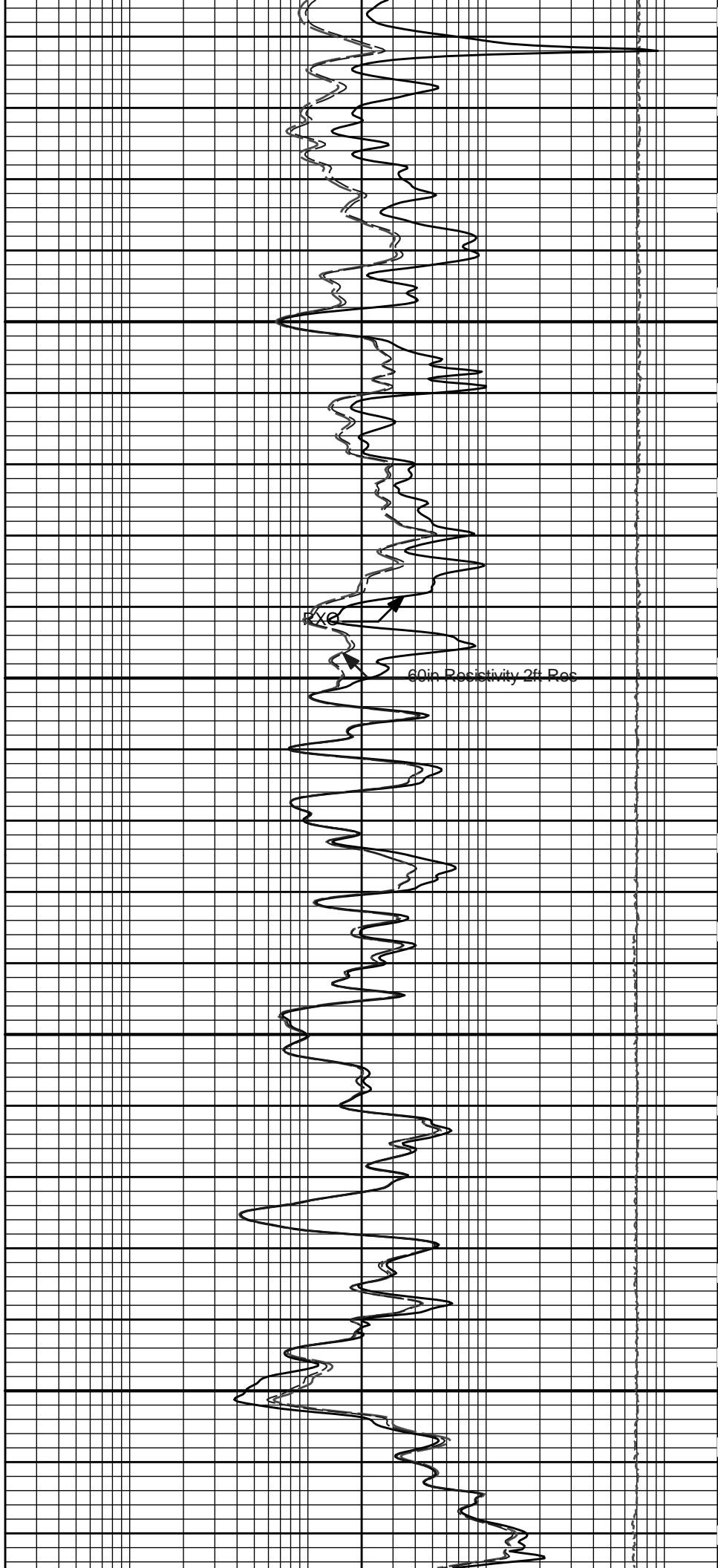
RXG

60in Resistivity 2ft Res



4300

4400



4500

4600

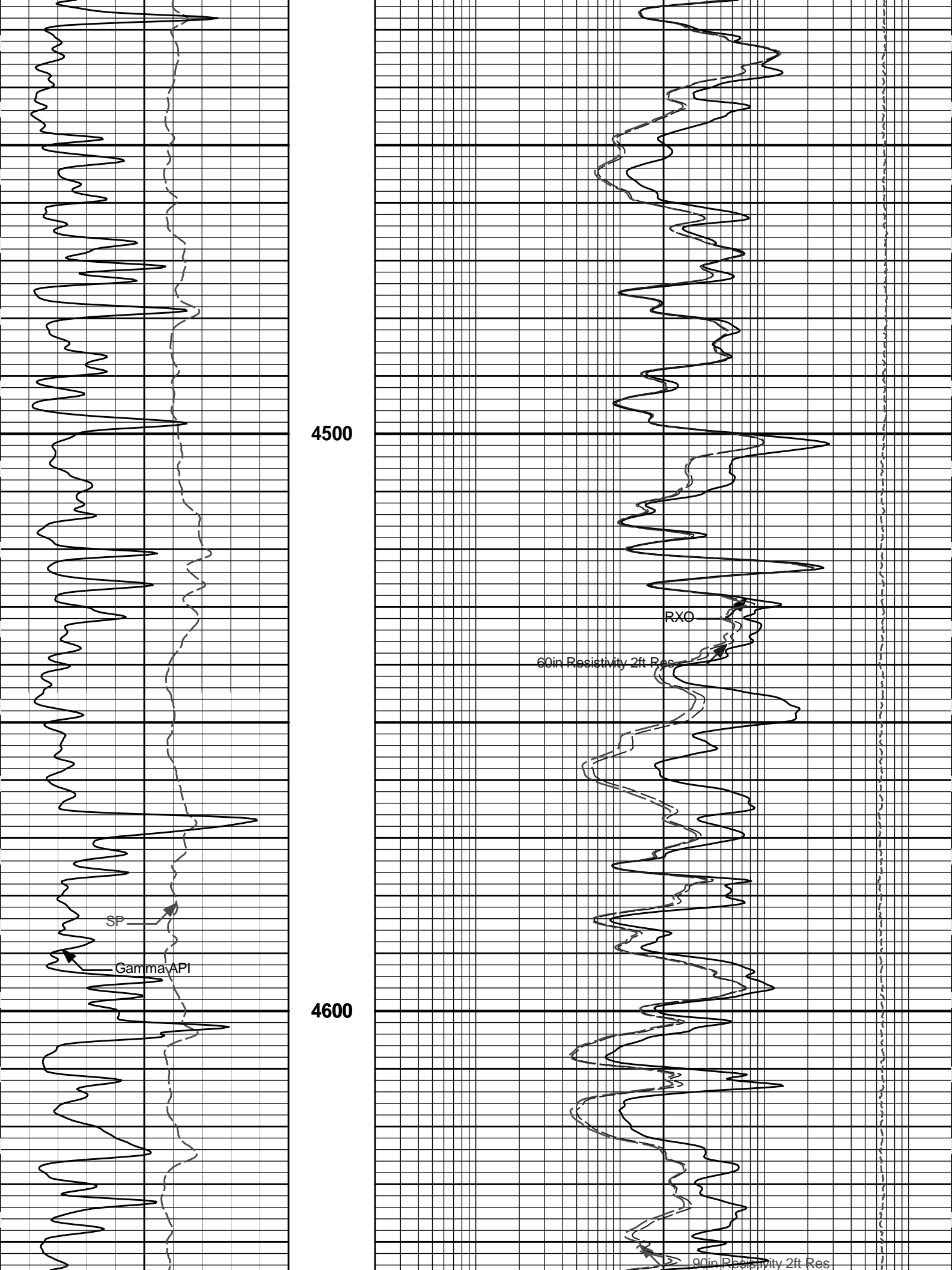
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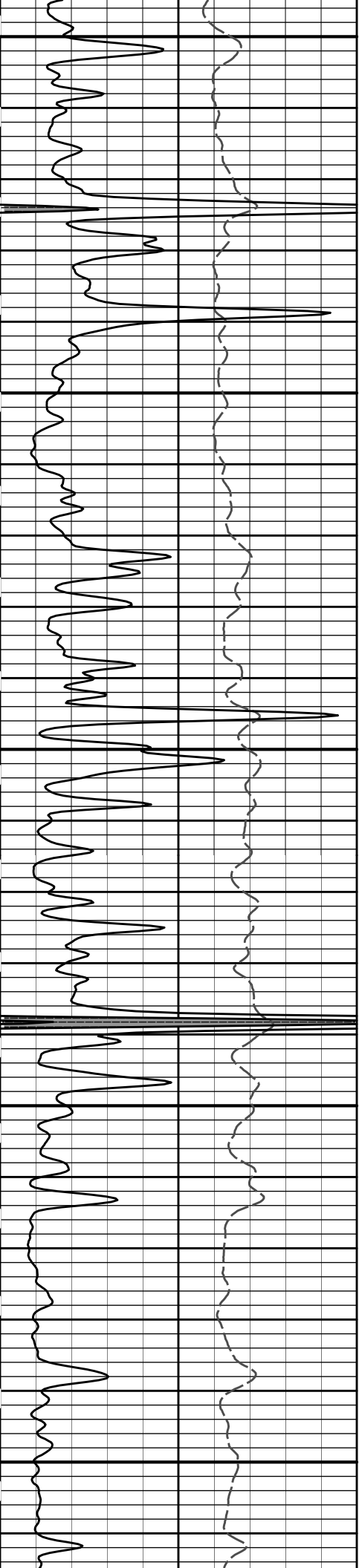
SP

RXO

60in Resistivity 2ft Res

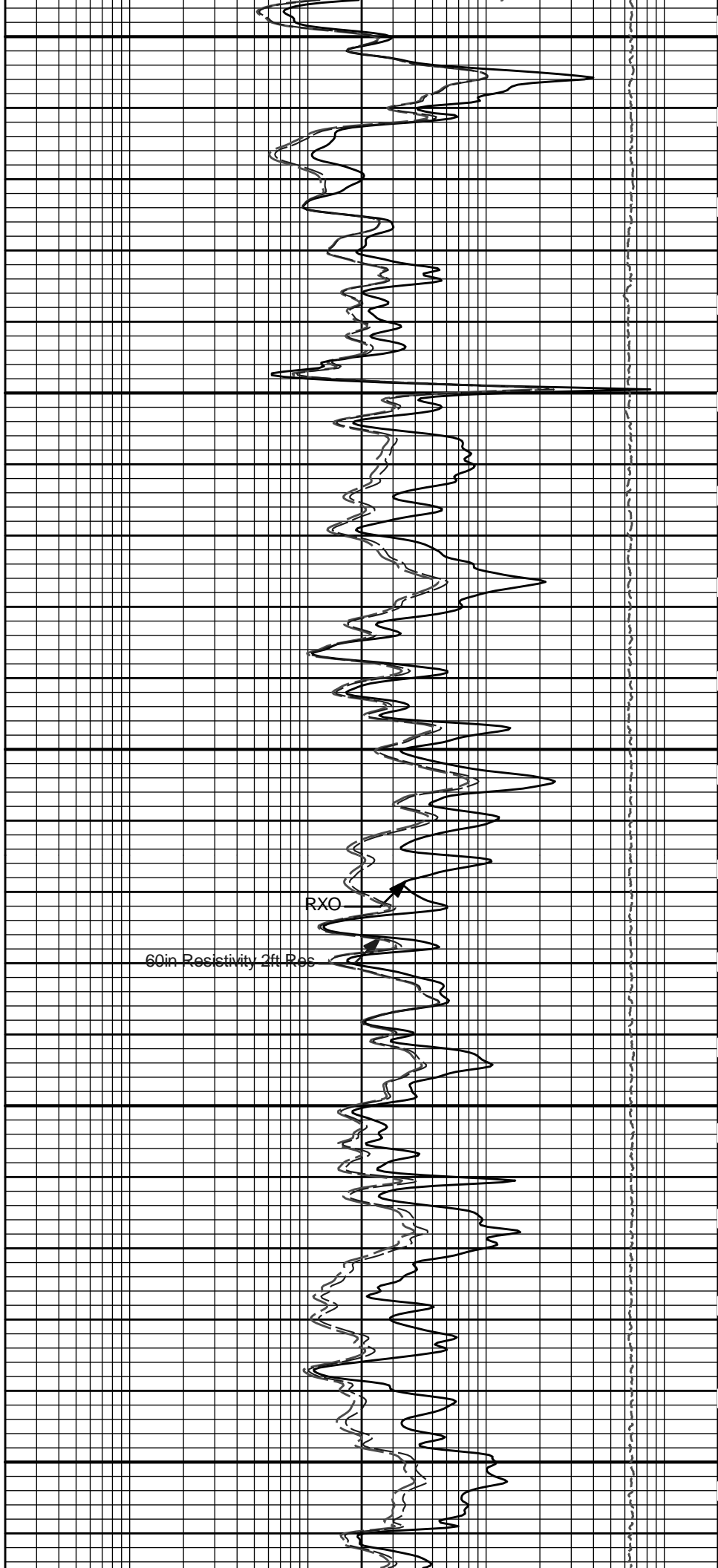
90in Resistivity 2ft Res





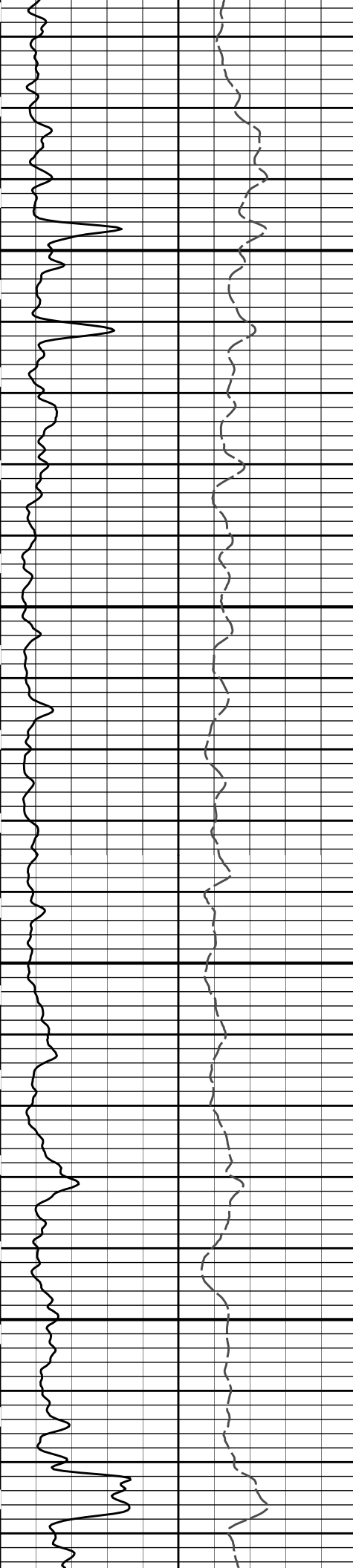
4700

4800



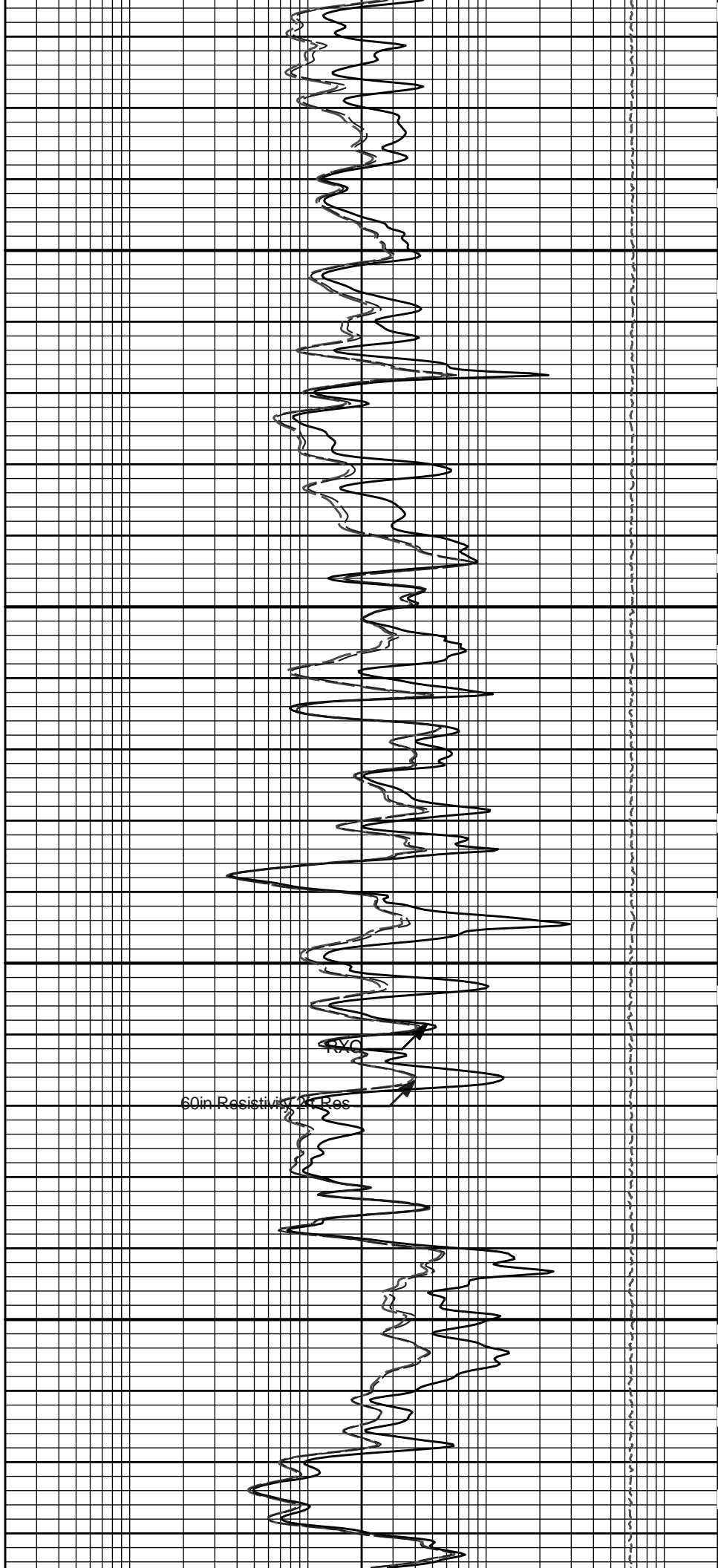
RXO

60in Resistivity 2ft Res



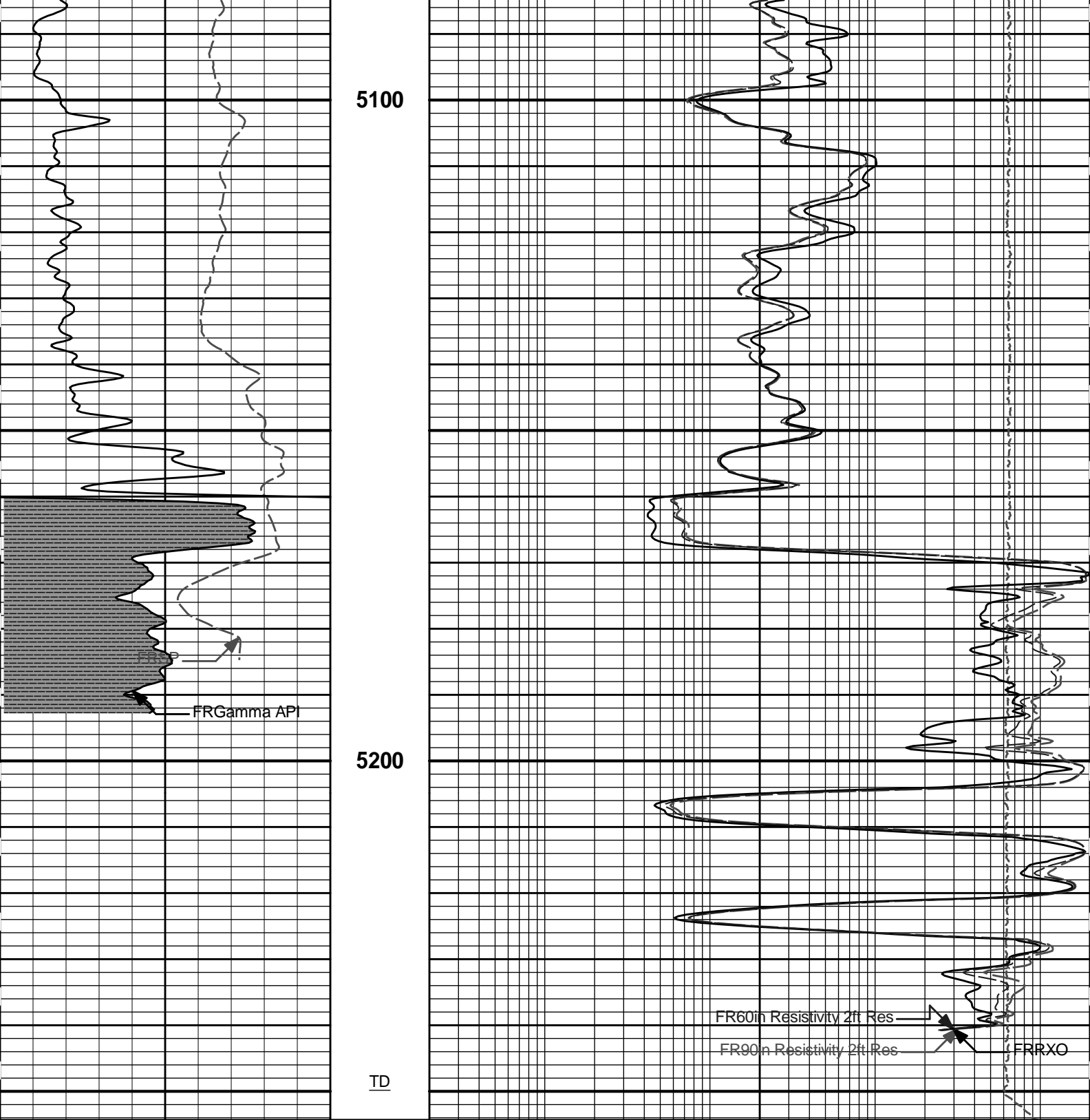
4900

5000



60in Resistivity

24 Res



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

**HALLIBURTON**

Plot Time: 04-Mar-11 08:12:20  
 Plot Range: 625 ft to 5254.33 ft  
 Data: WELLINGTON\_1 28\Well Based\DAQ-0001-003\

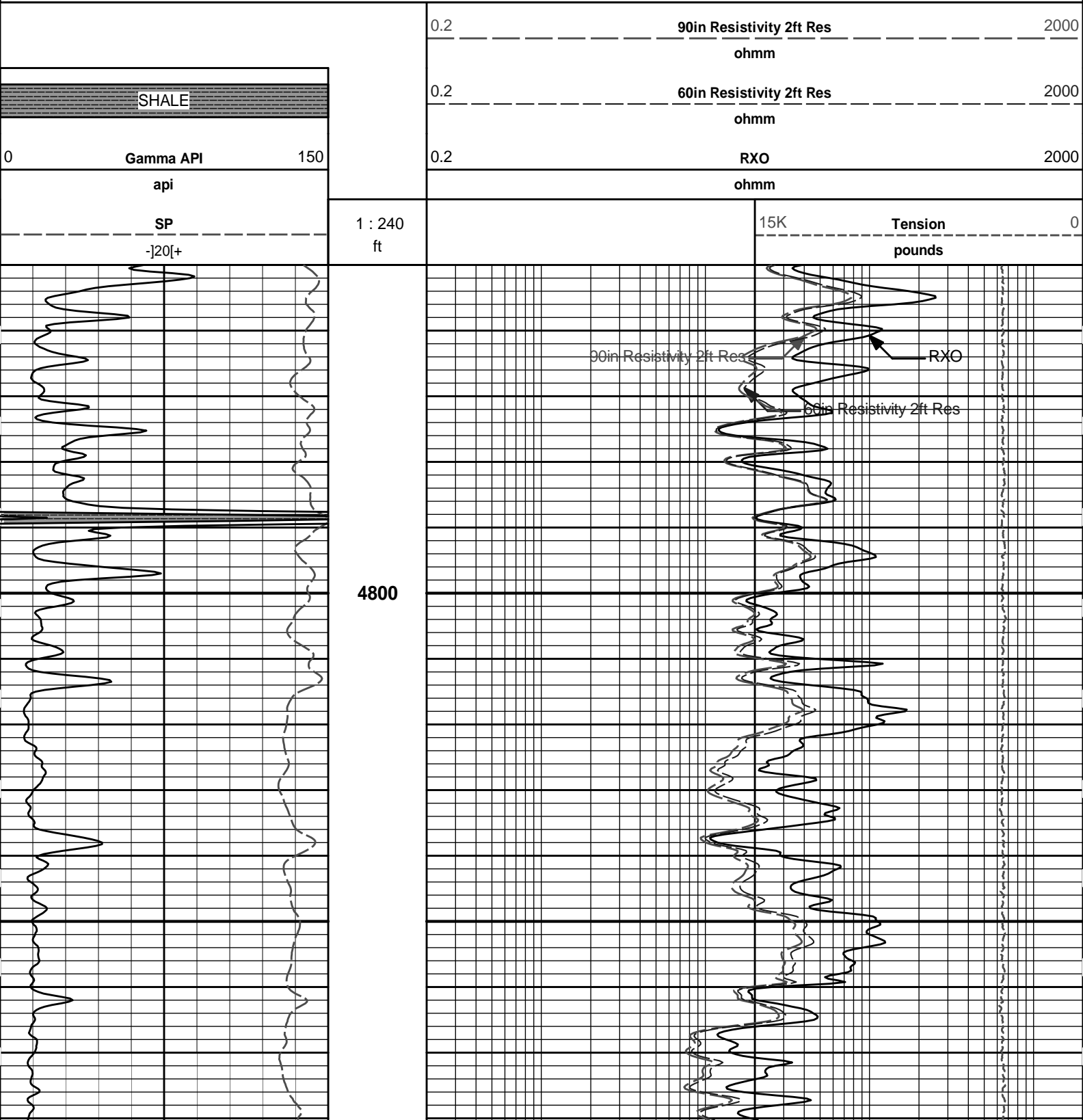


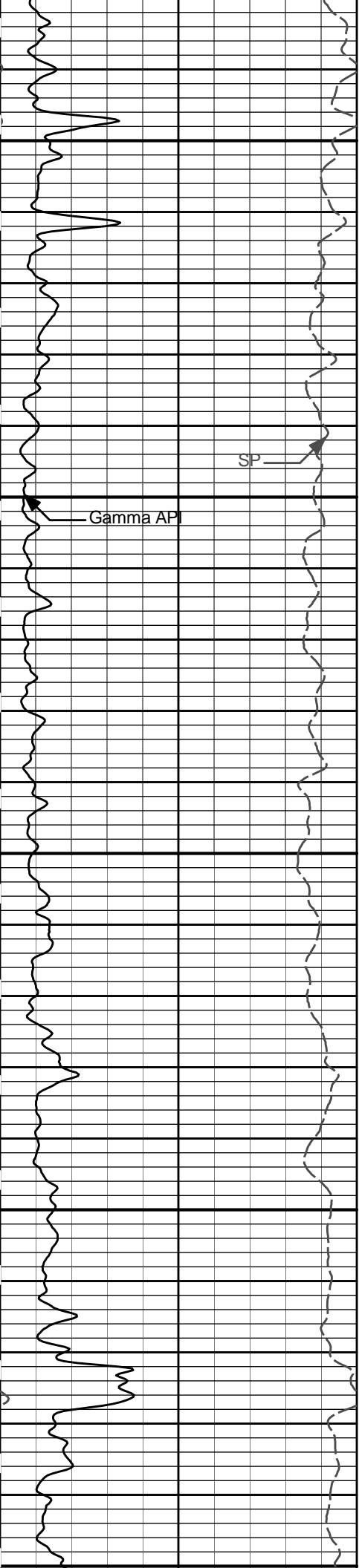
# 5 INCH MAIN LOG

**HALLIBURTON**

Plot Time: 04-Mar-11 08:12:20  
 Plot Range: 4750 ft to 5254.25 ft  
 Data: WELLINGTON\_1\_28\Well Based\DAQ-0001-002\  
 Plot File: \\-LOCAL-WELLINGTON\_1\_28\Well Based\ACRT\EOG\_ACRT\_5\_REP\_LIB

## REPEAT SECTION





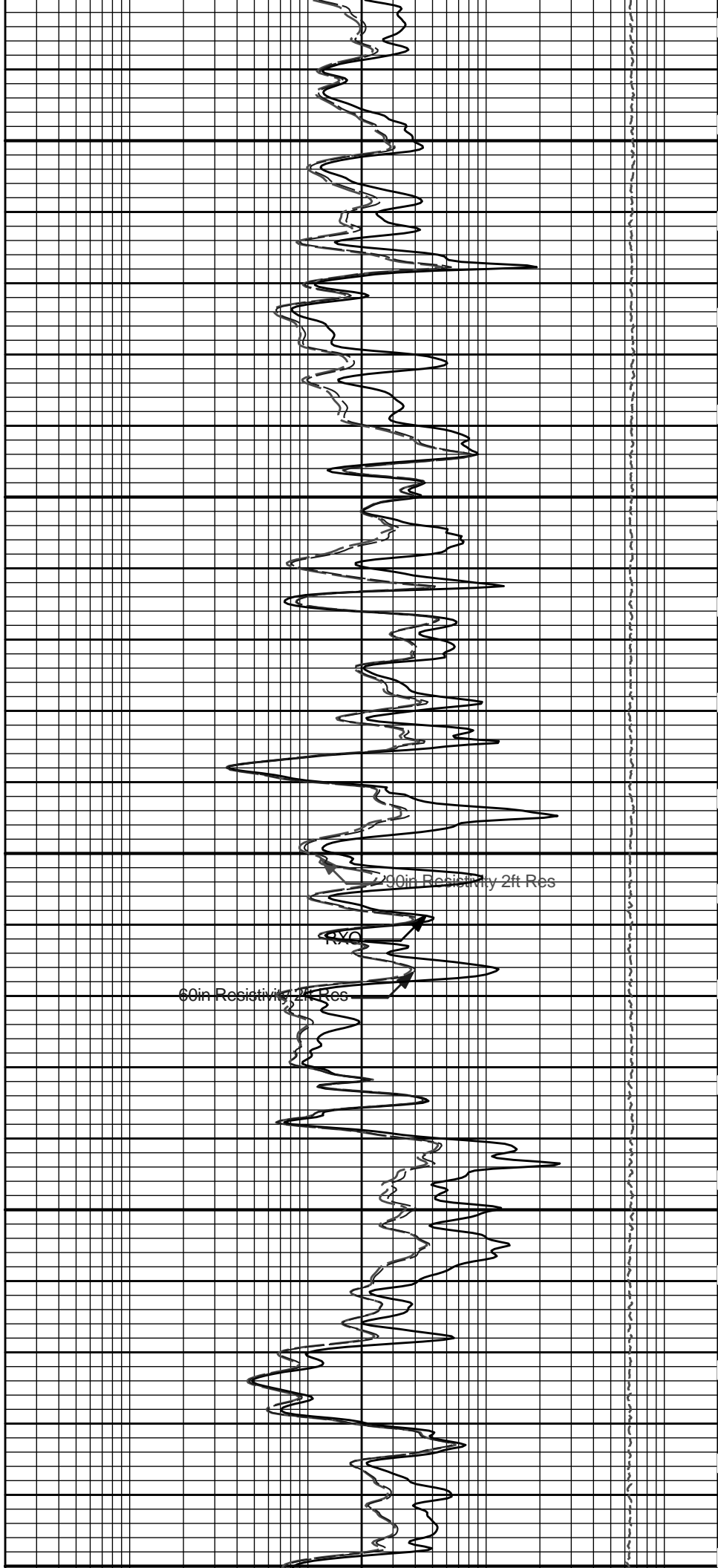
4900

Gamma AP

SP

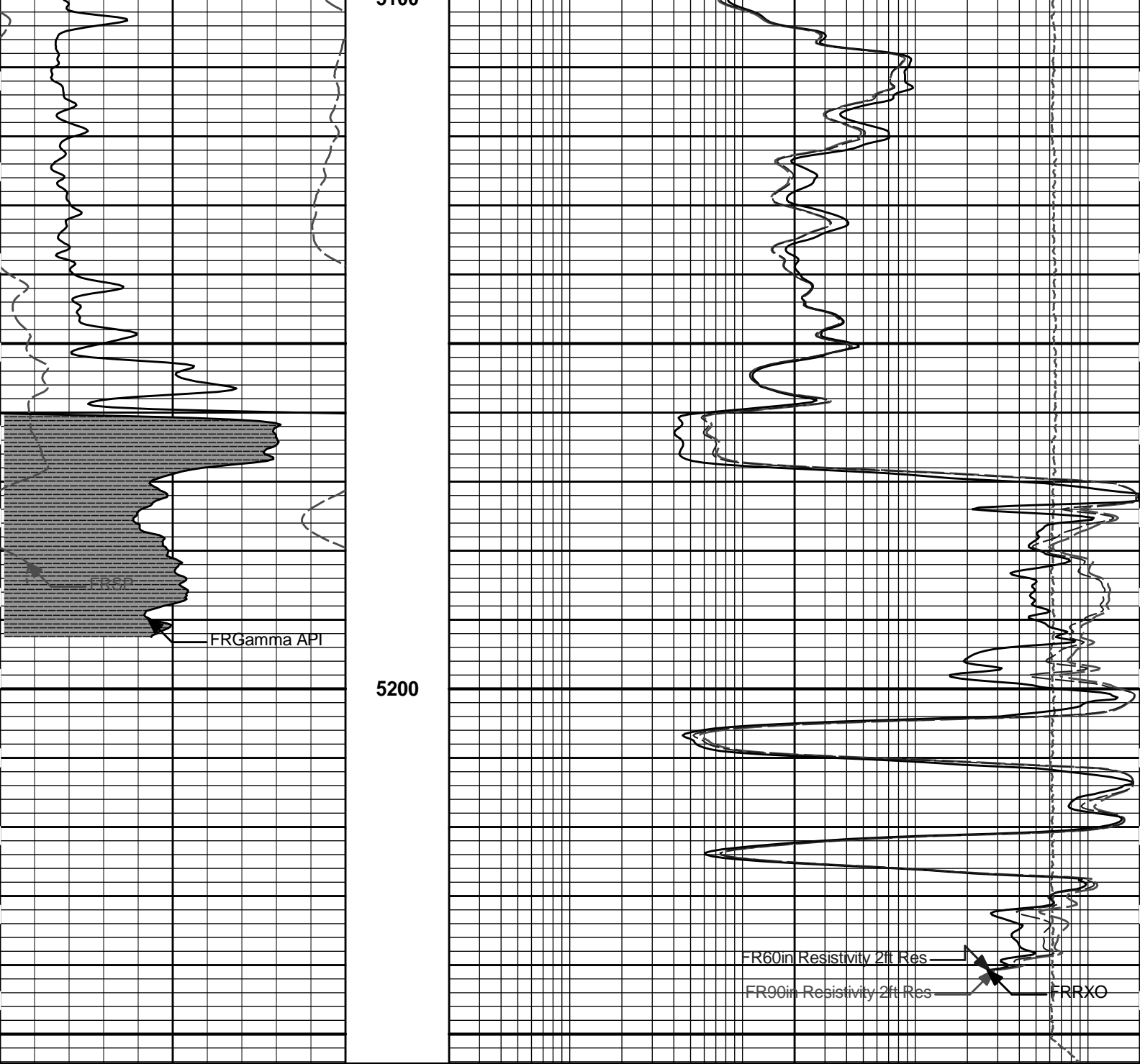
5000

5100



90in Resistivity 2ft Res

60in Resistivity 2ft Res



SP -]20[+	1 : 240 ft	15K	Tension pounds	0
Gamma API api		0.2	RXO ohmm	2000
SHALE		0.2	60in Resistivity 2ft Res ohmm	2000
		0.2	90in Resistivity 2ft Res ohmm	2000

**HALLIBURTON**

Plot Time: 04-Mar-11 08:12:29  
 Plot Range: 4750 ft to 5254.25 ft  
 Data: WELLINGTON\_1\_28\Well Based\DAQ-0001-002\  
 Plot File: \\-LOCAL-WELLINGTON\_1\_28\Well Based\ACRT\EOG\_ACRT\_5\_REP\_LIB

**REPEAT SECTION**

## TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-CH_696 37.50 lbs		Ø 2.750 in →		← Temperature @ 73.35 ft	3.03 ft	74.37 ft
XOHD-TRK696 20.00 lbs		Ø 2.750 in → Ø 3.625 in →		← SP @ 68.62 ft	0.95 ft	71.35 ft
SP Sub-PROT01 60.00 lbs		Ø 3.625 in →		← GammaRay @ 60.59 ft	3.74 ft	70.40 ft
GTET-11039640 165.00 lbs		Ø 3.625 in →		← CSNG @ 52.51 ft	8.52 ft	66.66 ft
CSNG-10727964 114.00 lbs		Ø 3.625 in →			8.17 ft	58.14 ft
		Ø 3.625 in →				49.97 ft
GEMT-I921_S893 300.00 lbs		Ø 4.900 in →		← BGO Crystal @ 42.49 ft	9.64 ft	40.33 ft
DSN Decentralizer- 10755066 6.60 lbs		Ø 3.625 in* →				
DSNT-11019643 174.00 lbs		Ø 3.625 in →		← DSN Far @ 33.39 ft ← DSN Near @ 32.64 ft	9.69 ft	30.64 ft

SDLT-I43\_P81  
360.00 lbs

Ø 4.500 in →

Ø 4.750 in →



SDL Microlog @ 22.83 ft  
SDL Caliper @ 22.65 ft  
SDL @ 22.64 ft

10.81 ft

19.83 ft

← Mud Resistivity @ 13.44 ft

ACRt-I962\_S909  
250.00 lbs

Ø 3.625 in →

← ACRt @ 9.46 ft

19.25 ft

Cabbage Head-  
TRK696  
10.00 lbs

Ø 3.625 in →  
Ø 6.000 in →

0.58 ft

0.58 ft

0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	CH_696	37.50	3.03	71.35	300.00
XOHD	Hostile to Dits Cross Over	TRK696	20.00	0.95	70.40	300.00
SP	SP Sub	PROT01	60.00	3.74	66.66	300.00
GTET	Gamma Telemetry Tool	11039640	165.00	8.52	58.14	60.00
CSNG	Compensated Spectral Natural Gamma	10727964	114.00	8.17	49.97	15.00
GEMT	Gamma, Elements and Minerals Tool	I921_S893	300.00	9.64	40.33	15.00
DSNT	Dual Spaced Neutron	11019643	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	33.97	300.00
SDLT	Spectral Density Tool	I43_P81	360.00	10.81	19.83	60.00
ACRt	Array Compensated True Resistivity	I962_S909	250.00	19.25	0.58	300.00
CBHD	Cabbage Head	TRK696	10.00	0.58	0.00	300.00

**Total** 1,497.10    74.37

\* Not included in Total Length and Length Accumulation.

Data: WELLINGTON\_1\_28\0001 SP-GTET-CSNG-GEM-DSN-SDL-ACRT-CH\IDLE

Date: 04-Mar-11 02:17:13

**HALLIBURTON**

**CALIBRATION REPORT**

**ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION**

Tool Name: ACRt - I962\_S909

Reference Calibration Date: 23-Dec-10 12:38:05

Engineer: J. BOSH

Calibration Date: 24-Jan-11 13:53:22

## TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0065	1.05	0.95	1.0124	1.05	0.95	1.0104	1.05
A2 (50")	0.95	1.0112	1.05	0.95	1.0167	1.05	0.95	1.0160	1.05
A3 (29")	0.95	1.0002	1.05	0.95	1.0050	1.05	0.95	1.0017	1.05
A4 (17")	0.95	0.9997	1.05	0.95	1.0023	1.05	0.95	1.0018	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9960	1.05	0.95	0.9936	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9837	1.05	0.95	0.9814	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	-0.477	2	-6	-3.389	-2	-8	-4.959	-2
A2 (50")	-7	-1.659	-1	-6	-3.422	-2	-7	-4.305	-2
A3 (29")	-27	-13.964	-9	-9	-4.362	-3	-7	-2.509	-1
A4 (17")	-180	-100.887	-60	-45	-30.107	-15	-39	-25.615	-13
A5 (10")	N/A	N/A	N/A	-150	-98.346	-50	-80	-44.387	-10
A6 (6")	N/A	N/A	N/A	175	282.846	525	90	148.106	270

## TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper	R-MUD VERIFICATION			
				Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.8685	1.3	Mud Cell	0.95	1000.000	1.05
36K	1.0	1.3398	2.0				
72K	1.0	1.5659	2.0				

## CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
ACRt-I962_S909						
Mud Cell	1000.000	-----	-----	0.000	-----	ohm-m

Data: WELLINGTON\_1\_28\0001 SP-GTET-CSNG-GEM-DSN-SDL-ACRT-CHVDLE

Date: 04-Mar-11 02:17:55

HALLIBURTON

## PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.000	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	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	1.260	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval in Cores?	No	

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		5250.00	ft
SHARED	BHT	Bottom Hole Temperature		130.0	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	
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		Centered	
CSNG	CGOK	Process CSNG Data?		Yes	
CSNG	CENT	Is Tool Centralized?		No	
CSNG	GBOK	Gamma Enviromental Corrections?		Yes	
CSNG	BARF	Barite Correction Factor		1.00	
GEMT	GMOK	Compute GEMT Results?		Yes	
GEMT	FTAL	Fit Chemical Element Al		Yes	
GEMT	FTBA	Fit Chemical Element Ba		No	
GEMT	FITC	Fit Chemical Element C		Yes	
GEMT	FTCA	Fit Chemical Element Ca		Yes	
GEMT	FTCL	Fit Chemical Element Cl		Yes	
GEMT	FTFE	Fit Chemical Element Fe		Yes	
GEMT	FTGD	Fit Chemical Element Gd		Yes	
GEMT	FITH	Fit Chemical Element H		Yes	
GEMT	FTK	Fit Chemical Element K		Yes	
GEMT	FTMG	Fit Chemical Element Mg		Yes	
GEMT	FTMN	Fit Chemical Element Mn		Yes	
GEMT	FTNA	Fit Chemical Element Na		No	
GEMT	FITO	Fit Chemical Element O		Yes	
GEMT	FTS	Fit Chemical Element S		Yes	
GEMT	FTSI	Fit Chemical Element Si		Yes	
GEMT	FTTI	Fit Chemical Element Ti		Yes	
GEMT	KFIT	Potassium constraint flag (No = don't fit, Yes = fit)		Yes	
GEMT	UFDF	Use Fix Resolution Degradation Factor		No	
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		0.300	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	DNOK	Process Density?		Yes	
SDLT	DNOK	Process Density EVR?		No	
SDLT	CB	Logging Calibration Blocks?		No	
SDLT	SPVT	SDLT Pad Temperature Valid?		Yes	
SDLT	DTWN	Disable temperature warning		No	
SDLT	DMA	Formation Density Matrix		2.710	g/cc
SDLT	DFL	Formation Density Fluid		1.000	g/cc
SDLT	CLOK	Process Caliper Outputs?		Yes	
SDLT	MLOK	Process MicroLog Outputs?		Yes	
ACRt	RTOK	Process ACRt?		Yes	
ACRt	MNSO	Minimum Tool Standoff		1.50	in

ACRt	TCS1	Temperature Correction Source	FP Lwr & FP Up	
ACRt	TPOS	Tool Position	Free Hanging	
ACRt	RMOP	Rmud Source	Mud Cell	
ACRt	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt	THQY	Threshold Quality	0.50	

BOTTOM

Data: WELLINGTON\_1\_28\0001 SP-GTET-CSNG-GEM-DSN-SDL-ACRT-CHIDL

Date: 04-Mar-11 02:20:28

# HALLIBURTON

## INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
<b>Depth Panel</b>				
TENS	Tension	0.00	NO	
<b>CH_HOS</b>				
DHTN	Downhole Tension	0.00	BLK	0.000
<b>SP Sub</b>				
PLTC	Plot Control Mask	68.62	NO	
SP	Spontaneous Potential	68.62	BLK	1.250
SPR	Raw Spontaneous Potential	68.62	NO	
SPO	Spontaneous Potential Offset	68.62	NO	
<b>GTET</b>				
TPUL	Tension Pull	60.59	NO	
GR	Natural Gamma Ray API	60.59	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	60.59	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	60.59	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
<b>CSNG</b>				
TPUL	Tension Pull	52.51	NO	
STAT	Status	52.51	NO	
FRMC	Tool Frame Count	52.51	BLK	0.250
TFRM	Total Frames	52.51	NO	
LSPD	Line Speed	52.51	BLK	0.250
CTIM	Accumulation time for sample	52.51	BLK	0.250
NOIS	Spectral Noise	52.51	BLK	0.250
STAB	Stabilizer Voltage in mv	52.51	BLK	0.250
STBP	Stabilizer 60 KEV Peak	52.51	BLK	0.250
AMER	Americium	52.51	BLK	0.250
FTMP	Flask PCB Temperature	52.51	BLK	0.250
SPEL	Low Energy Spectrum	52.51	BLK	0.250
SPEH	High Energy Spectrum	52.51	BLK	0.250
SSP	Stabilization Energy Spectrum	52.51	BLK	0.250
CSPC	CSNG Lo Hi Spectrum Data	52.51	NO	
<b>GEMT</b>				
TPUL	Tension Pull	42.49	NO	
FRMC	Tool Frame Count	42.49	NO	
TFRM	Total Frames	42.49	NO	



LSPD	Line Speed	42.49	NO	
ATIM	Accumulation time for sample	42.49	NO	
CTIM	Accumulation time for single frame	42.49	NO	
STAT	Status	42.49	NO	
PHMI	Photomultiplier Current	42.49	NO	
PHVT	Photomultiplier Voltage	42.49	NO	
FTMP	Flask PCB Temperature	42.49	NO	
GSP	GEMT Spectrum	42.49	NO	
<b>DSNT</b>				
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	
<b>SDLT</b>				
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	19.83	NO	
FHV	Far Detector High Voltage	19.83	NO	
ITMP	Instrument Temperature	19.83	NO	
DDHV	Detector High Voltage	19.83	NO	
TPUL	Tension Pull	22.65	NO	
PCAL	Pad Caliper	22.65	TRI	0.250
ACAL	Arm Caliper	22.65	TRI	0.250
TPUL	Tension Pull	22.83	NO	
MINV	Microlog Lateral	22.83	BLK	0.750
MNOR	Microlog Normal	22.83	BLK	0.750
<b>ACRt</b>				
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	
<b>Data: WELLINGTON_1_28\0001 SP-GTET-CSNG-GEM-DSN-SDL-ACRT-CH\IDLE</b>				<b>Date: 04-Mar-11 02:20:52</b>

COMPANY      **BEREXCO INC.**

WELL            **WELLINGTON KGS #1-28**

FIELD          **WELLINGTON**

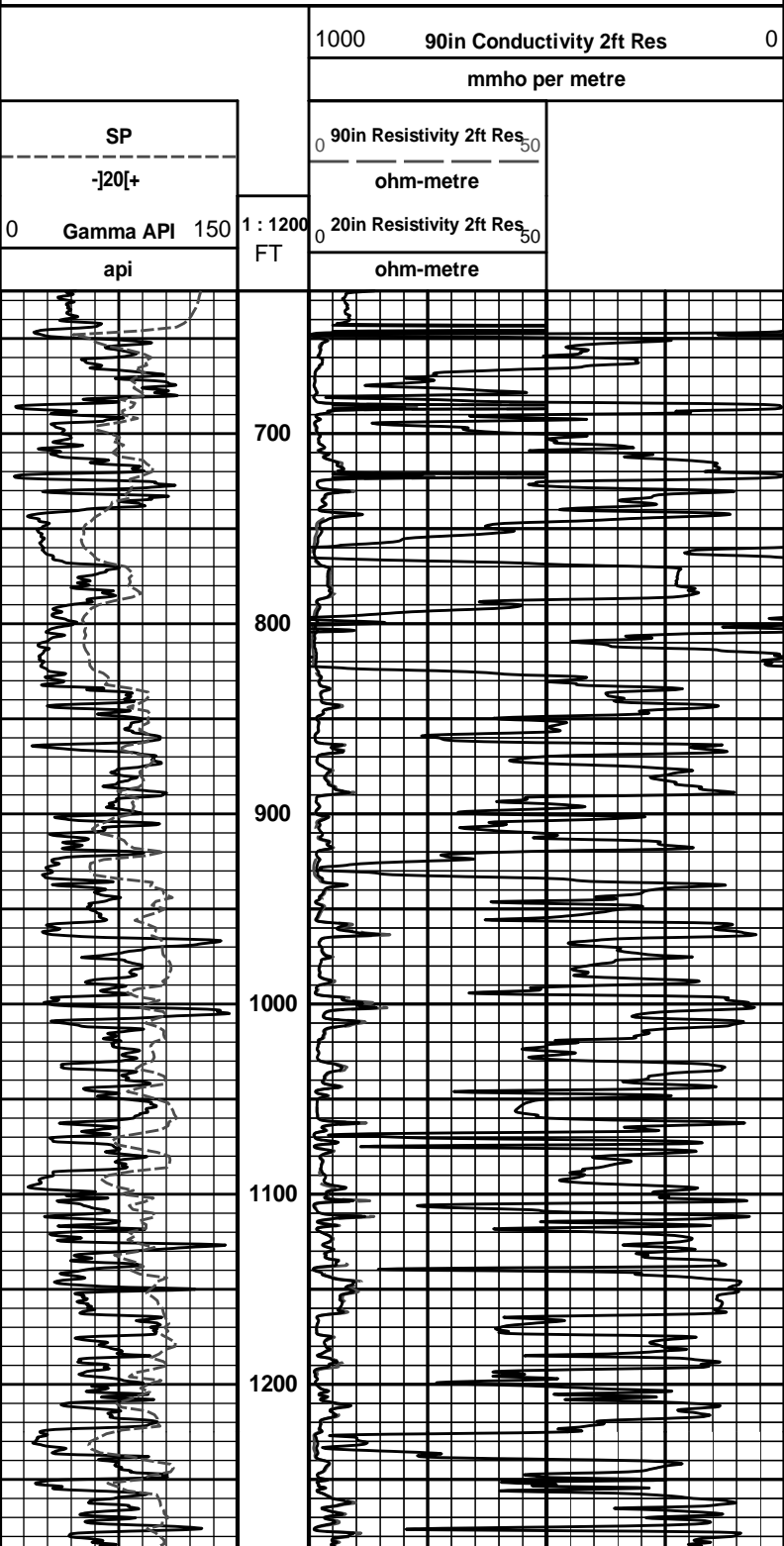
# HALLIBURTON

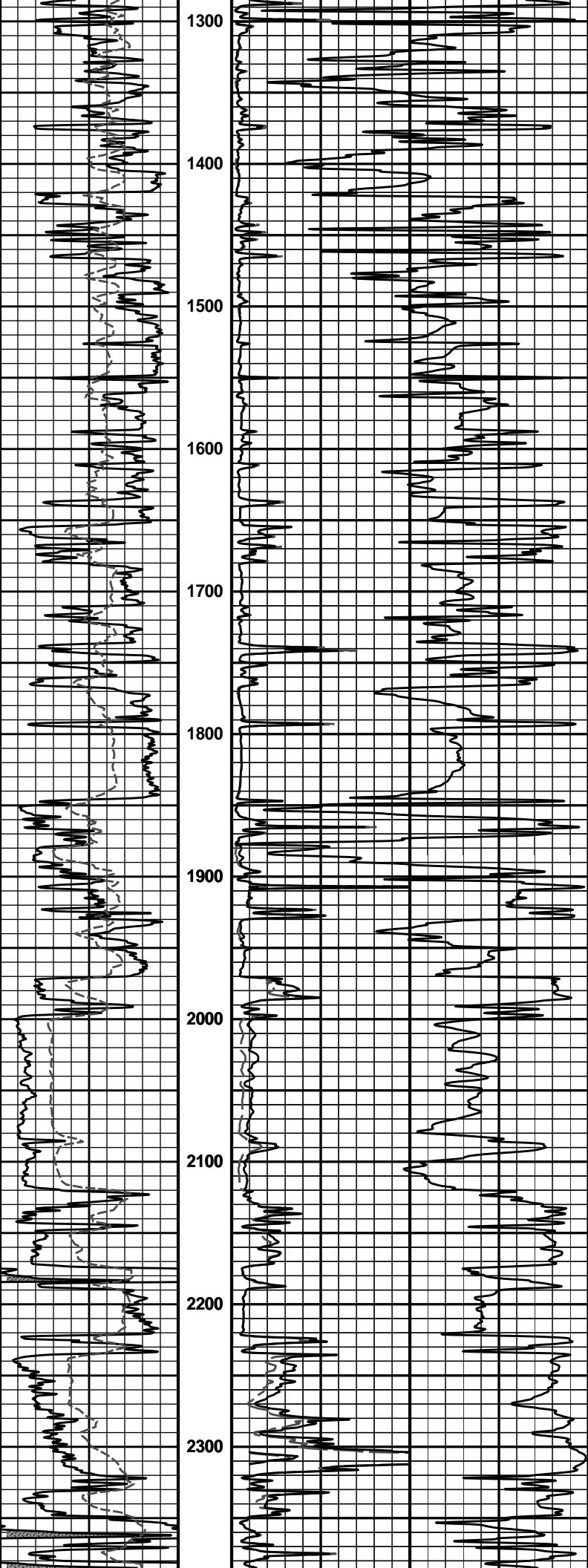
ARRAY COMPENSATED  
TRUE RESISTIVITY  
LOG

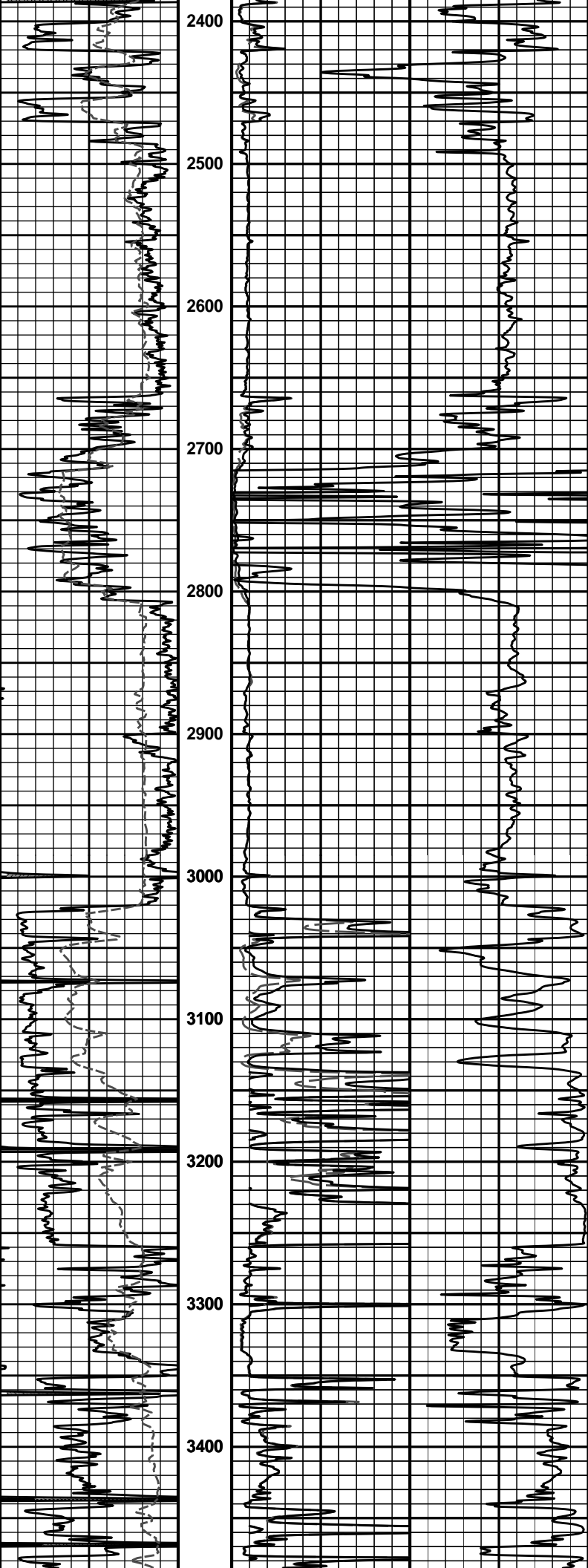
## HALLIBURTON

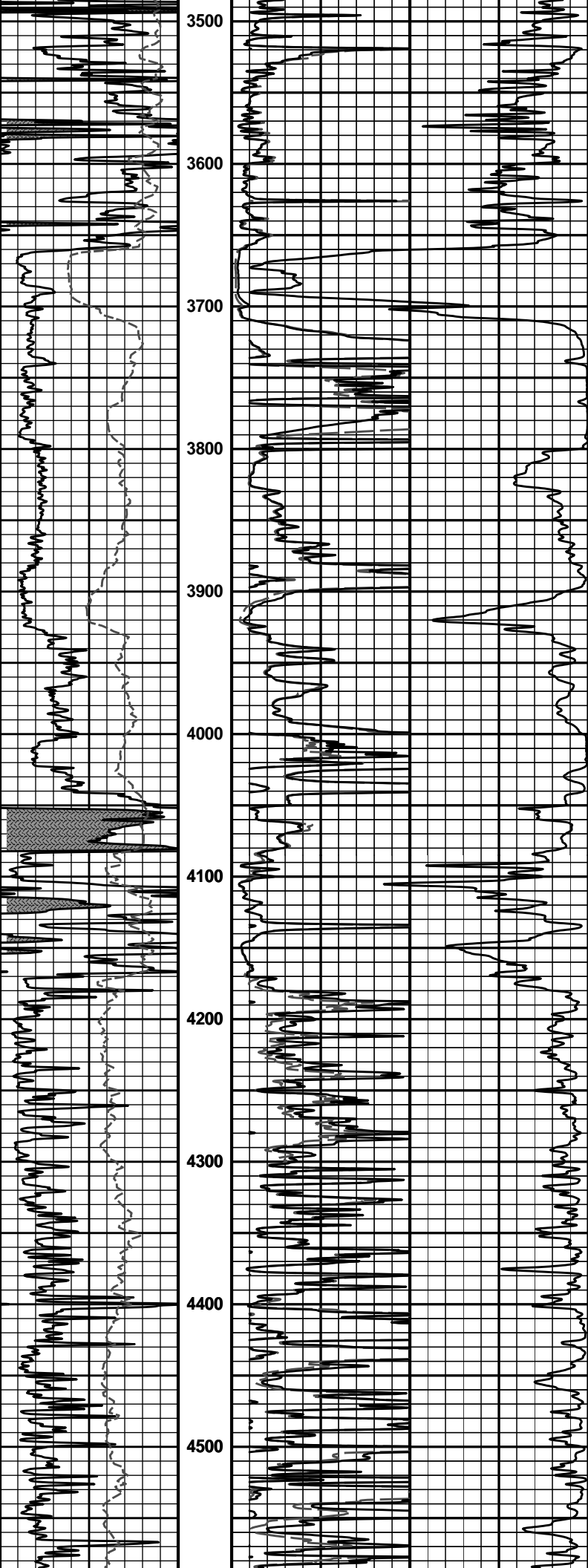
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 Plot File: \\-LOCAL-WELLINGTON\_1\_28Well Based\ACRT\ACRT\_1\_lib

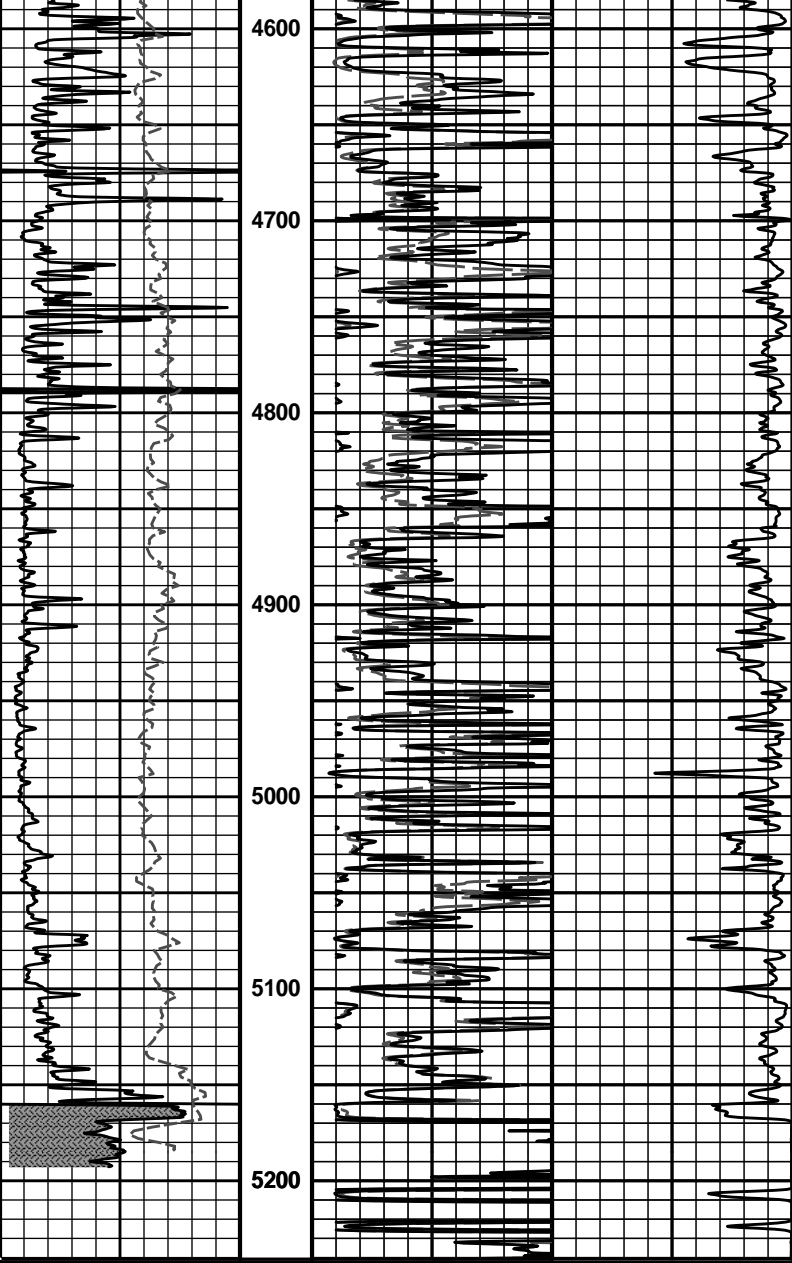
### 1 INCH MAIN LOG











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

**HALLIBURTON**  
 Plot Time: 04-Mar-11 08:12:38  
 Plot Range: 625 ft to 5240.75 ft  
 Data: WELLINGTON\_1\_28Well Based\DAQ-0001-003\  
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**1 INCH MAIN LOG**