Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1095333

Form ACO-1
August 2013
Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34191
Name: Reeder Operating LLC
Address 1: 4925 GREENVILLE AVE., STE 1400
Address 2:
City: DALLAS State: TX Zip: 75206 + __ __ __ __
Contact Person: Gary Wente
Phone: (214) 373-7793
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Gary Wente
Purchaser:

Designate Type of Completion:

☑ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☑ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer

☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

8/1/2012	8/8/2012	9/30/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-033-21656-00-00
Spot Description:
NW SE SE SE Sec. 7 Twp. 32 S. R. 17 ☐ East ☑ West
495 Feet from ☐ North / ☑ South Line of Section
438 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Comanche
Lease Name: BROWN-TODD Well #: 1 SWD
Field Name:
Producing Formation: Arbuckel disposal zone
Elevation: Ground: 2076 Kelly Bushing: 2086
Total Vertical Depth: 6160 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 800 Feet
Multiple Stage Cementing Collar Used? ☑ Yes ☐ No
If yes, show depth set: 755 Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 2500 ppm Fluid volume: 550 bbls
Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite:

Operator Name:
Lease Name: License #:
Quarter Sec. Twp. S. R. ☐ East ☐ West
County: Permit #:

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

☑ **Confidentiality Requested**
Date: 10/24/2012
☑ **Confidential Release Date:** 10/24/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 10/24/2012

1095333

Operator Name: Reeder Operating LLC Lease Name: BROWN-TODD Well #: 1 SWD

Sec. 7 Twp. 32 S. R. 17 ☐ East ☑ West County: Comanche

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Mississippian	5120	2086
Arbucklel	6070	2086

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	9.625	36	800	O Tex C Premium	450	1/4 PPS Celloflake
Production	8.75	7	26	6158	50/50 POZ	460	4% Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

Did you perform a hydraulic fracturing treatment on this well? ☐ Yes ☐ No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? ☐ Yes ☐ No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? ☐ Yes ☐ No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record *(Amount and Kind of Material Used)*	Depth
	Open hole Completion: 6163'-6828'		
	as a SWD zone		

TUBING RECORD: Size: 4.5", 11.6 #, J-55 Set At: 6137' Packer At: 6137' Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 10/2/2012

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* SWD well- Injection

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
			1500		

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
6163'-6828' SWD

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Reeder Operating LLC
Well Name	BROWN-TODD 1 SWD
Doc ID	1095333

All Electric Logs Run

MRIL
Microlog
BSAT
DSNT, SDLT

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY **REEDER OPERATING, LLC**

WELL **BROWN-TODD 1-7 SWD**

FIELD

COUNTY **COMANCHE** STATE **KANSAS**

COMPANY REEDER OPERATING, LLC
WELL BROWN-TODD 1-7 SWD
FIELD
COUNTY COMANCHE
STATE KANSAS

API No. 15-033-21656
Location 450' FSL & 515' FEL

Sect. 7 Twp. 32S Rge. 17W

Other Services:
MICROLOG
BSAT
DSNT, SDLT
MRIL

Permanent Datum	GL	Elev. 2075.0 ft	Elev.: K.B. 2086.0 ft
Log measured from	KB	, 11.0 ft above perm. Datum	D.F. 2085.0 ft
Drilling measured from	KB		G.L. 2075.0 ft

Date		10-Aug-12					
Run No.		TWO					
Depth - Driller		6163.00 ft					
Depth - Logger		6160.0 ft					
Bottom - Logged Interval		6150.0 ft					
Top - Logged Interval		793.0 ft					
Casing - Driller		9.625 in	@ 800.0 ft	@		@	
Casing - Logger		793.0 ft					
Bit Size		8.750 in		@		@	
Type Fluid in Hole		WATER BASED MUD					
Density	Viscosity	9.1 ppg	11.00 s/qt				
PH	Fluid Loss	10.50 pH	9.2 cptm				
Source of Sample		FLOWLINE					
Rm @ Meas. Temperature		0.450 ohmm	@ 75.00 degF	@		@	
Rmf @ Meas. Temperature		0.37 ohmm	@ 75.00 degF	@		@	
Rmc @ Meas. Temperature		0.580 ohmm	@ 75.00 degF	@		@	
Source Rmf	Rmc	MEASURED	MEASURED				
Rm @ BHT		0.25 ohmm	@ 138.0 degF	@		@	
Time Since Circulation		5.0 hr					
Time on Bottom		10-Aug-12 04:34					
Max. Rec. Temperature		139.0 degF	@ 6160.0 ft	@		@	
Equipment	Location	10782954	LIBERAL				
Recorded By		JAMES BOLLOM					
Witnessed By		G. WENTE					

Fold here

Service Ticket No.: 9721957 API Serial No.: 15-033-21656 PGM Version: WL INSITE R3.6.0 (Build 3)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE

RESISTIVITY SCALE CHANGES

	Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Date					
Sample No.					
Depth-Driller					
Type Fluid in Hole					
Density / Viscosity					
Ph / Fluid Loss					
Source of Sample					
Rm @ Meas. Temp	@	ACRT	N/A	1.5 S.O.	N/A
Rmf @ Meas. Temp.	@	I1256_S0784			
Rmc @ Meas. Temp.	@				
Source Rmf / Rmc					
Rm @ BHT	@				
Rmf @ BHT	@				
Rmc @ BHT	@				

EQUIPMENT DATA

	GAMMA	ACOUSTIC	DENSITY	NEUTRON
Run No.	ONE			
Serial No.	10811258			
Model No.	GTET			
Diameter	3.625"			
Detector Model No.	GTET			
Type	SCINT			
Length	8'	LSA [Y/N]		
Distance to Source	10'	FWDA [Y/N]		

LOGGING DATA

	GAMMA	ACOUSTIC	DENSITY	NEUTRON
Run No.				
Serial No.				
Model No.				
Diameter				
Log Type				
Source Type				
Serial No.				
Strength				

GENERAL GAMMA ACOUSTIC DENSITY NEUTRON

GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	6160	793	REC	0	150									

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 7-INCH CASING

CHLORIDES REPORTED AT 1600 MG/L

LCM REPORTED AT 1 LB/BBL

GTET-DSNT-SDLT-BSAT-ACRT RUN IN COMBINATION

LOGS SPLICED AT 5800' FROM FIRST RUN

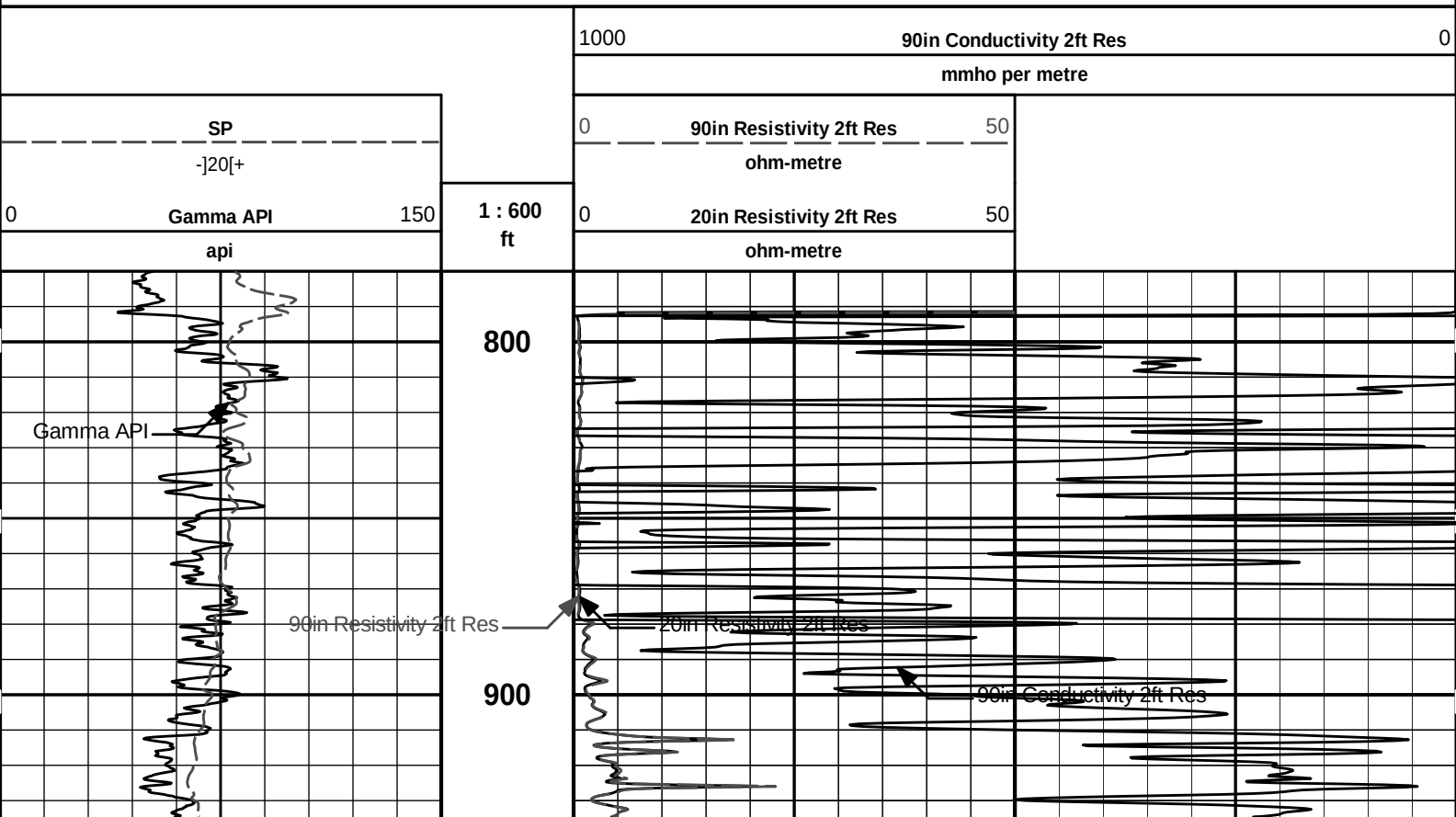
TODAY'S CREW: F. VILLA & B. TERRELL

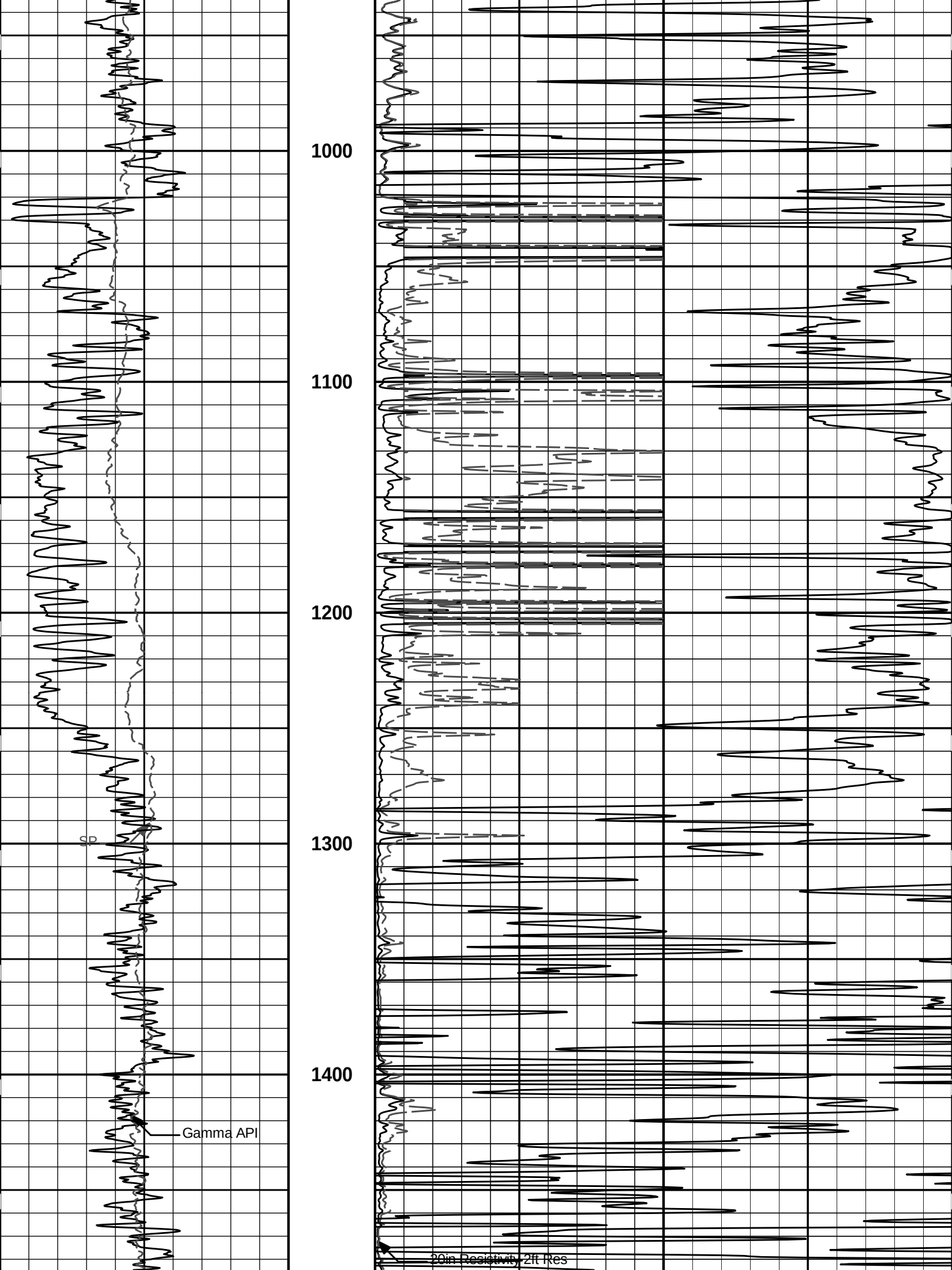
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KS. 620-624-8123

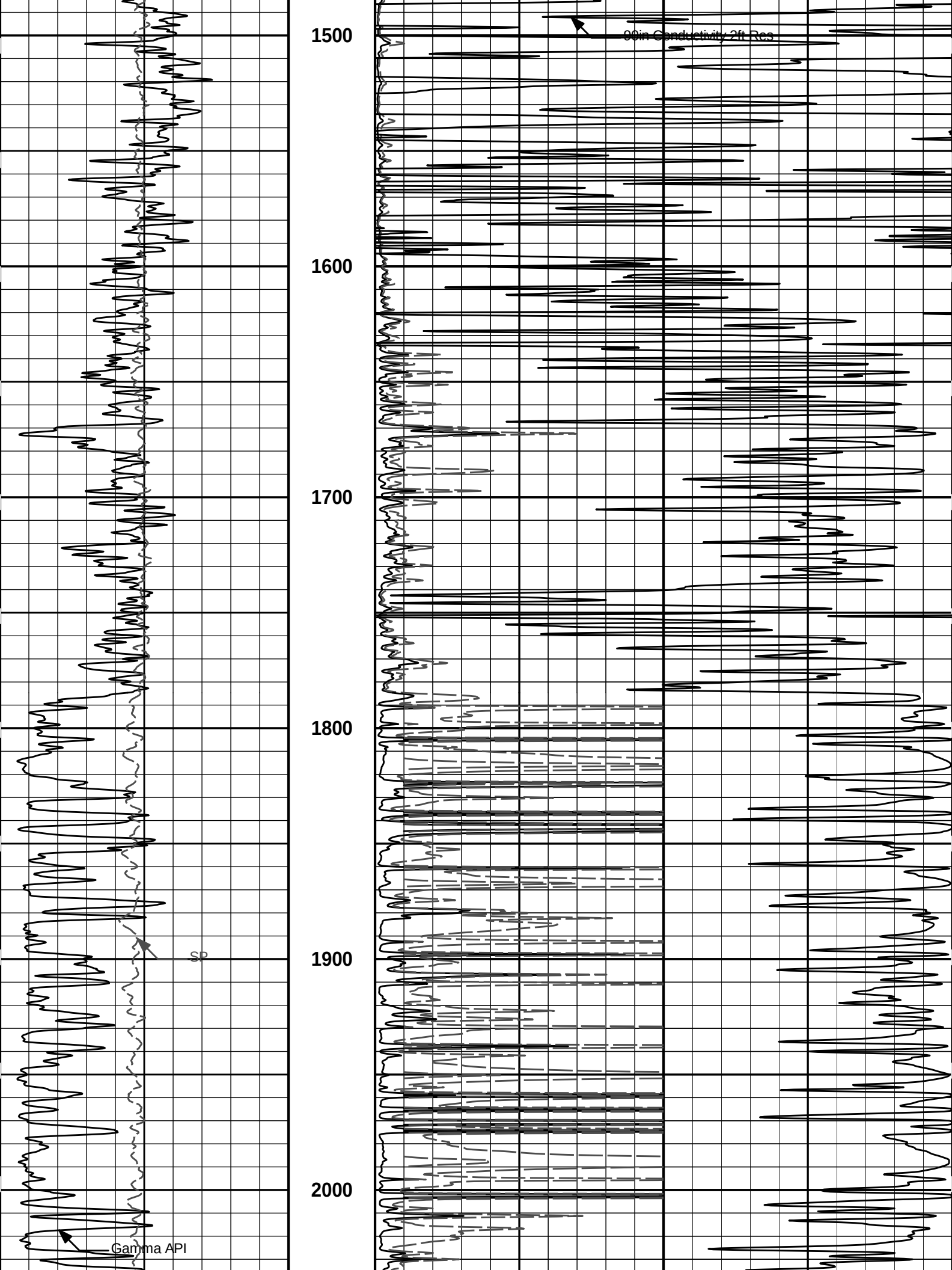
HALLIBURTON

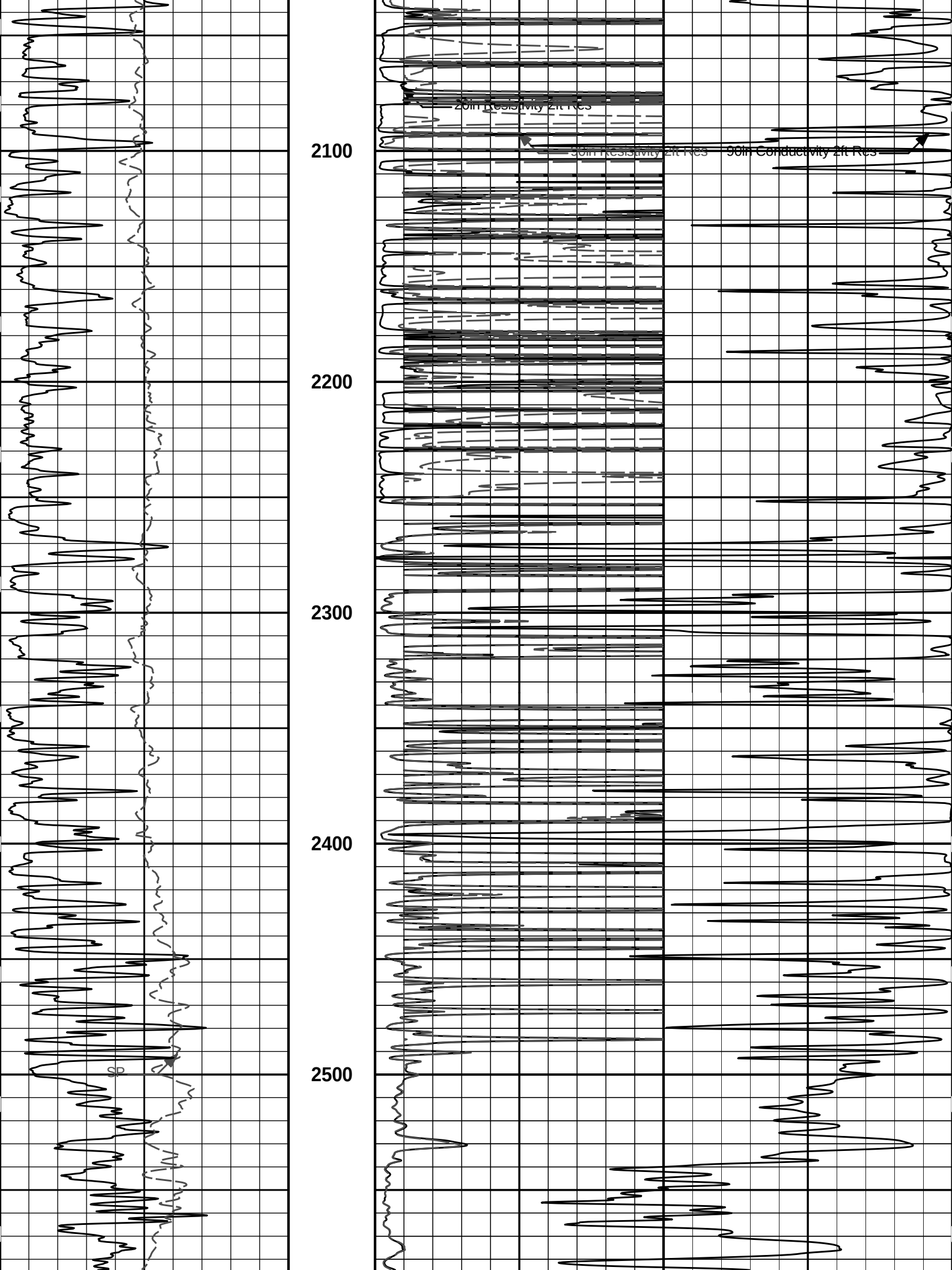
Plot Time: 10-Aug-12 08:04:14
Plot Range: 780 ft to 6164.58 ft
Data: BROWN_TODD_SWD\Well Based\SPLICE_CASING
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\ACRT\ACRT_2_lib

2 INCH MAIN LOG




1000
1100
1200
1300
1400
SP
Gamma API
20in Resistivity 2ft Res


1500
1600
1700
1800
1900
2000
90in Conductivity 2ft Res
SP
Gamma API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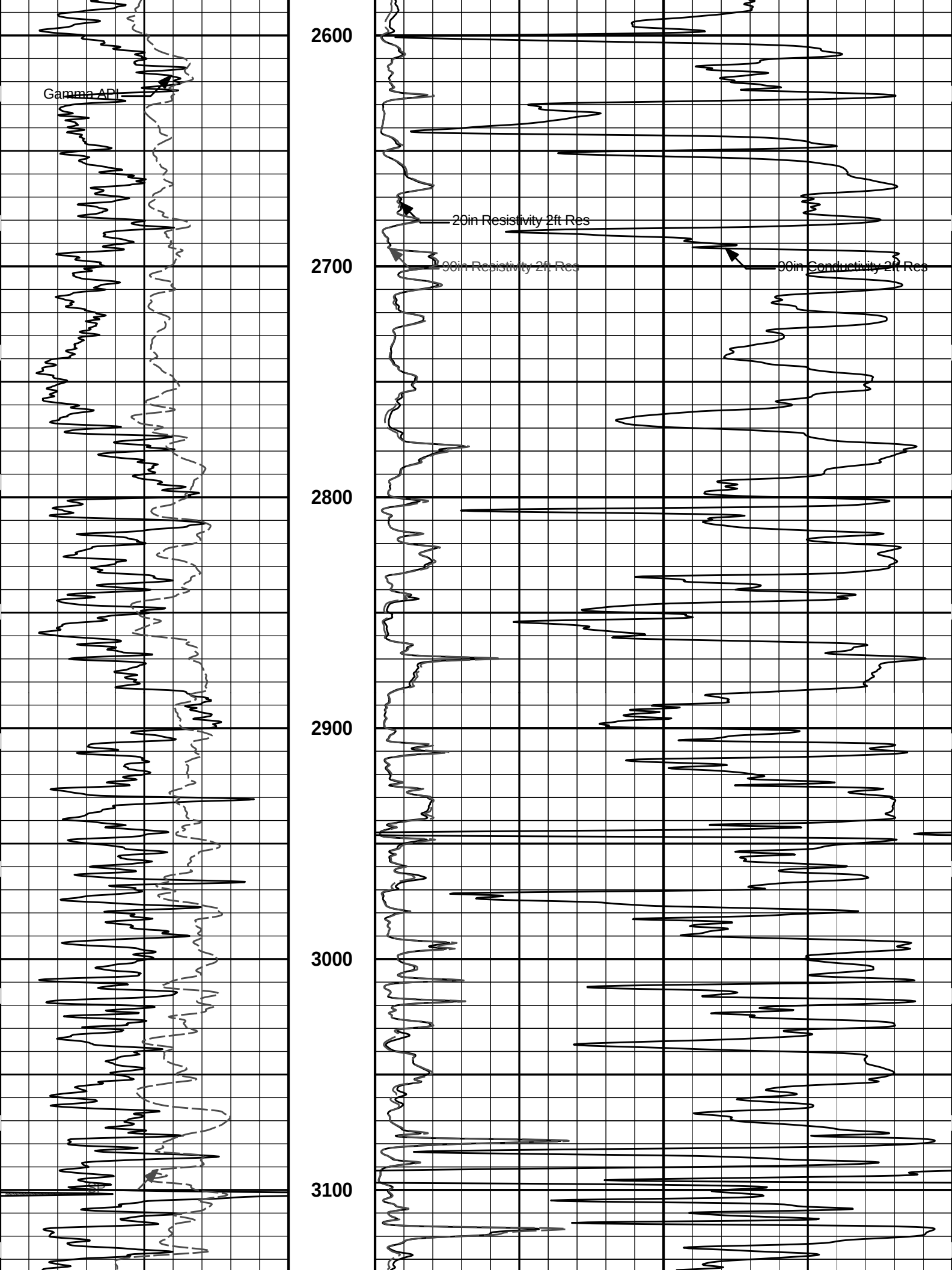
90in Resistivity 2ft Res
90in Conductivity 2ft Res
SP
2100
2200
2300
2400
2500


Gamma API
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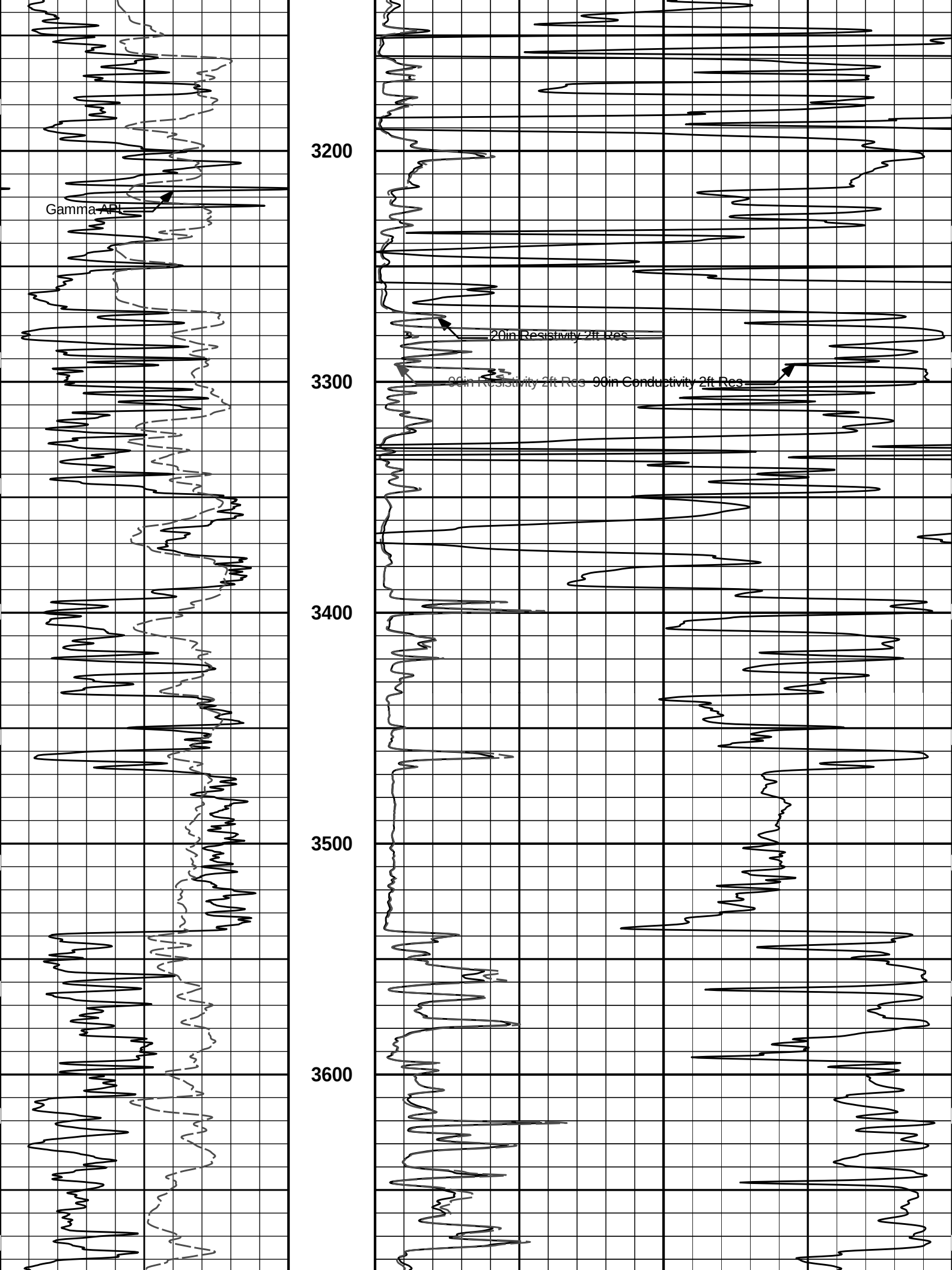
90in Conductivity 2ft Res
2600
2700
2800
2900
3000
3100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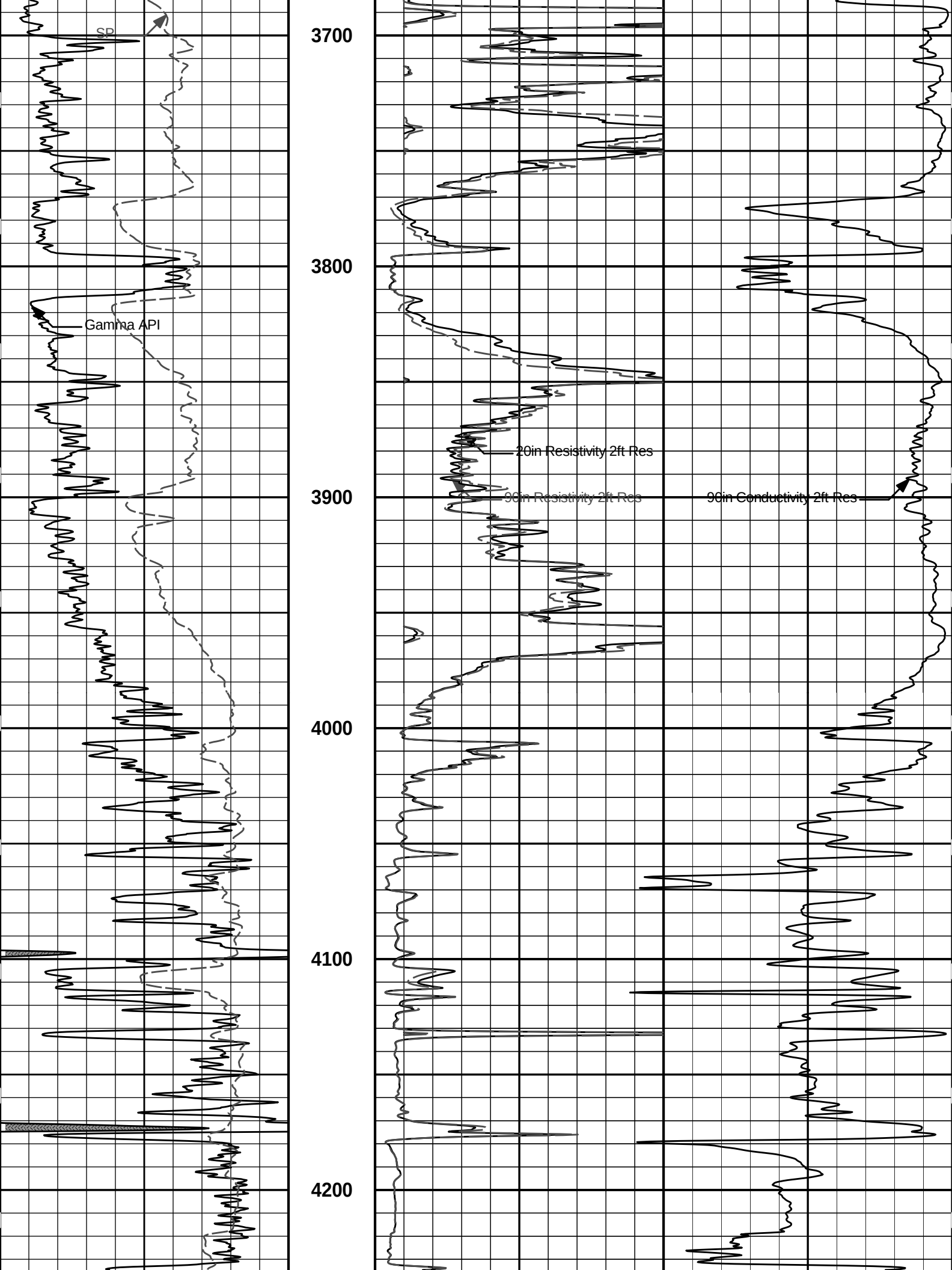
20in Resistivity 2ft Res
90in Resistivity 2ft Res
90in Conductivity 2ft Res
3200
3300
3400
3500
3600


SP
Gamma API
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3800
3900
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4100
4200
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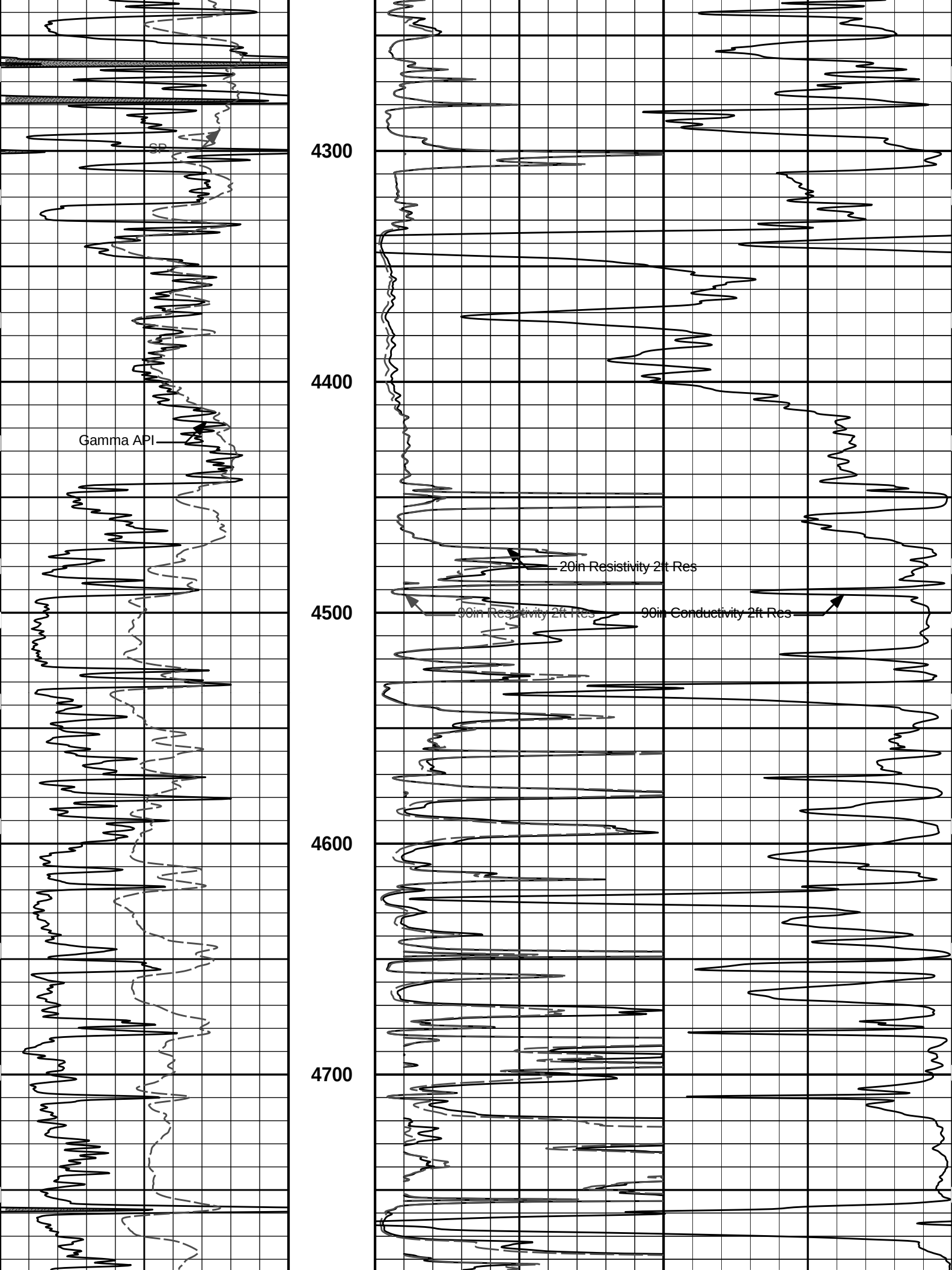
90in Resistivity 2ft Res
90in Conductivity 2ft Res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4400
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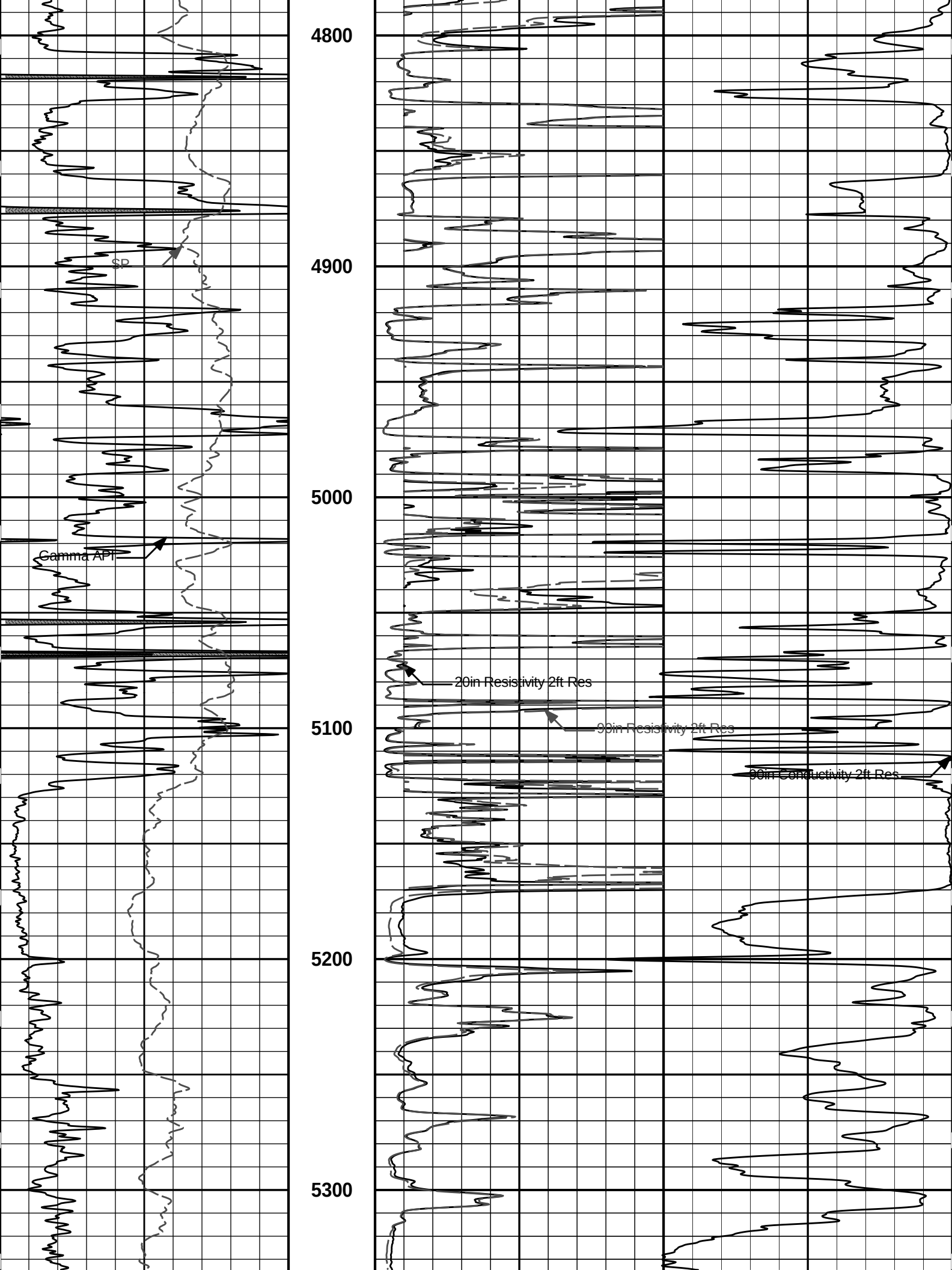
90in Conductivity 2ft Res
4500
4600
4700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5000
5100
5200
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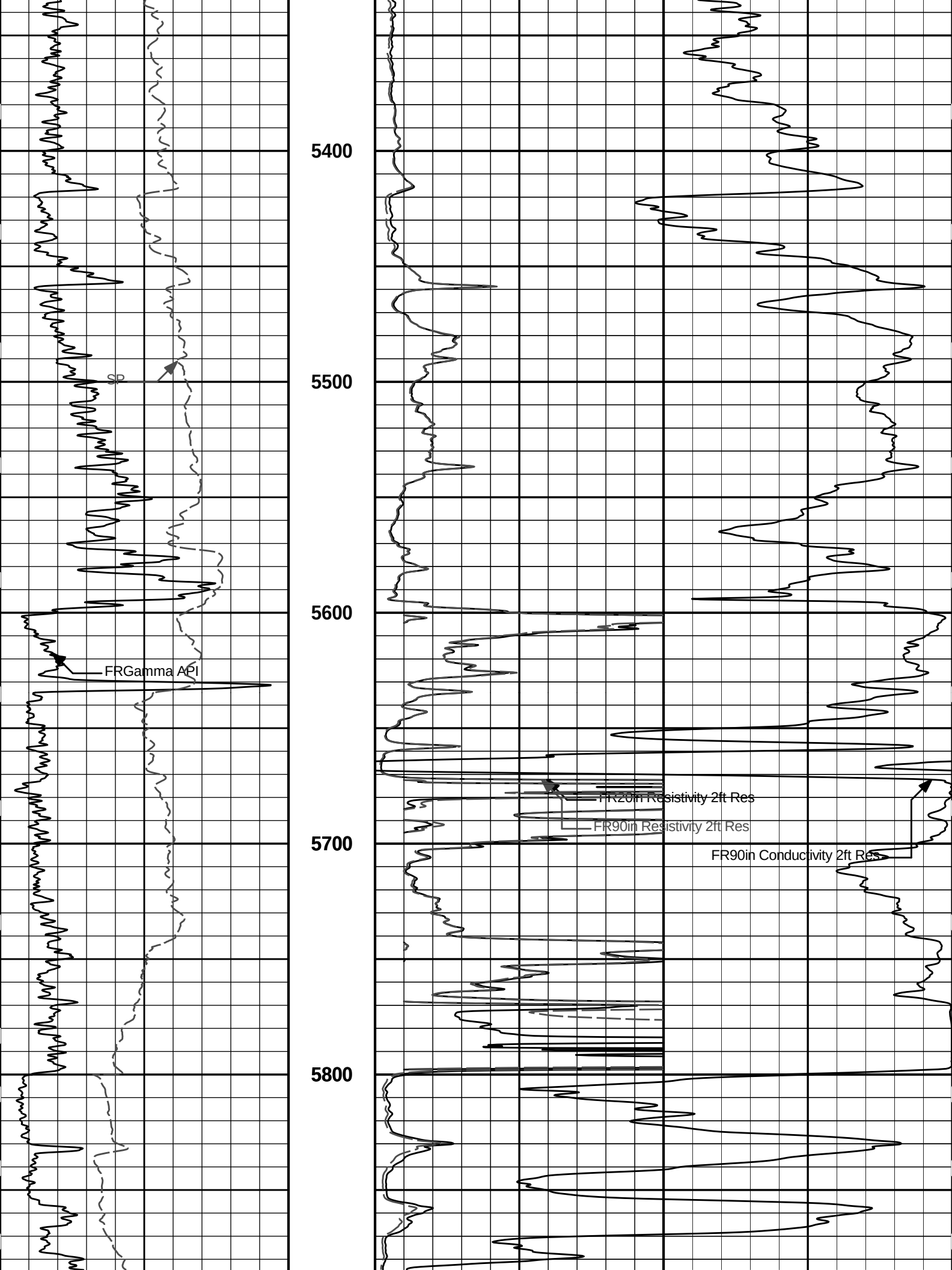
90in Resistivity 2ft Res
90in Conductivity 2ft Res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5500
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5700
5800
SP
FRGamma API
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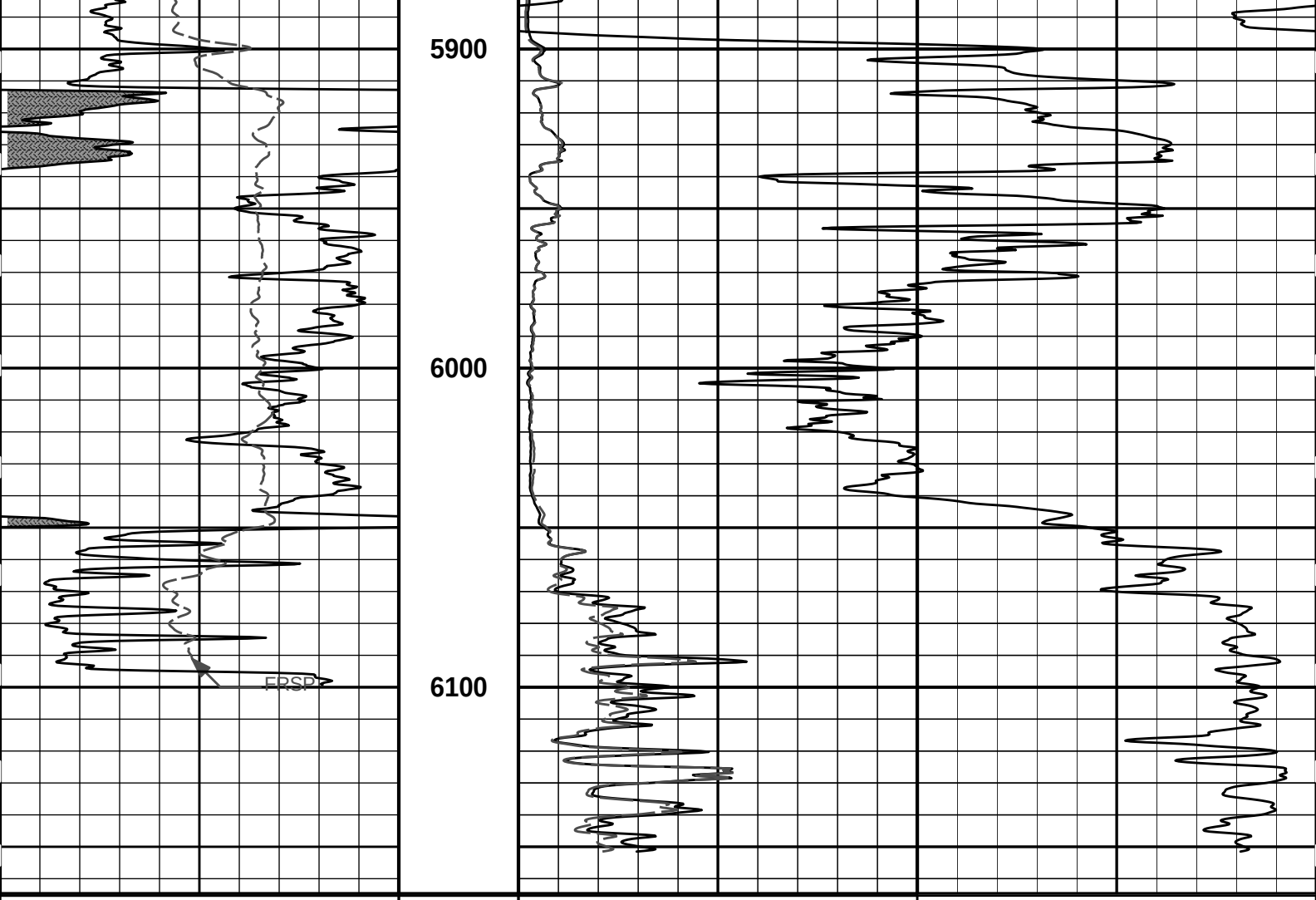
FR90in Resistivity 2ft Res
FR90in Conductivity 2ft Res



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

HALLIBURTON

Plot Time: 10-Aug-12 08:04:24
Plot Range: 780 ft to 6164.58 ft
Data: BROWN_TODD_SWD\Well Based\SPLICE_CASING\
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\ACRT\ACRT_2_lib

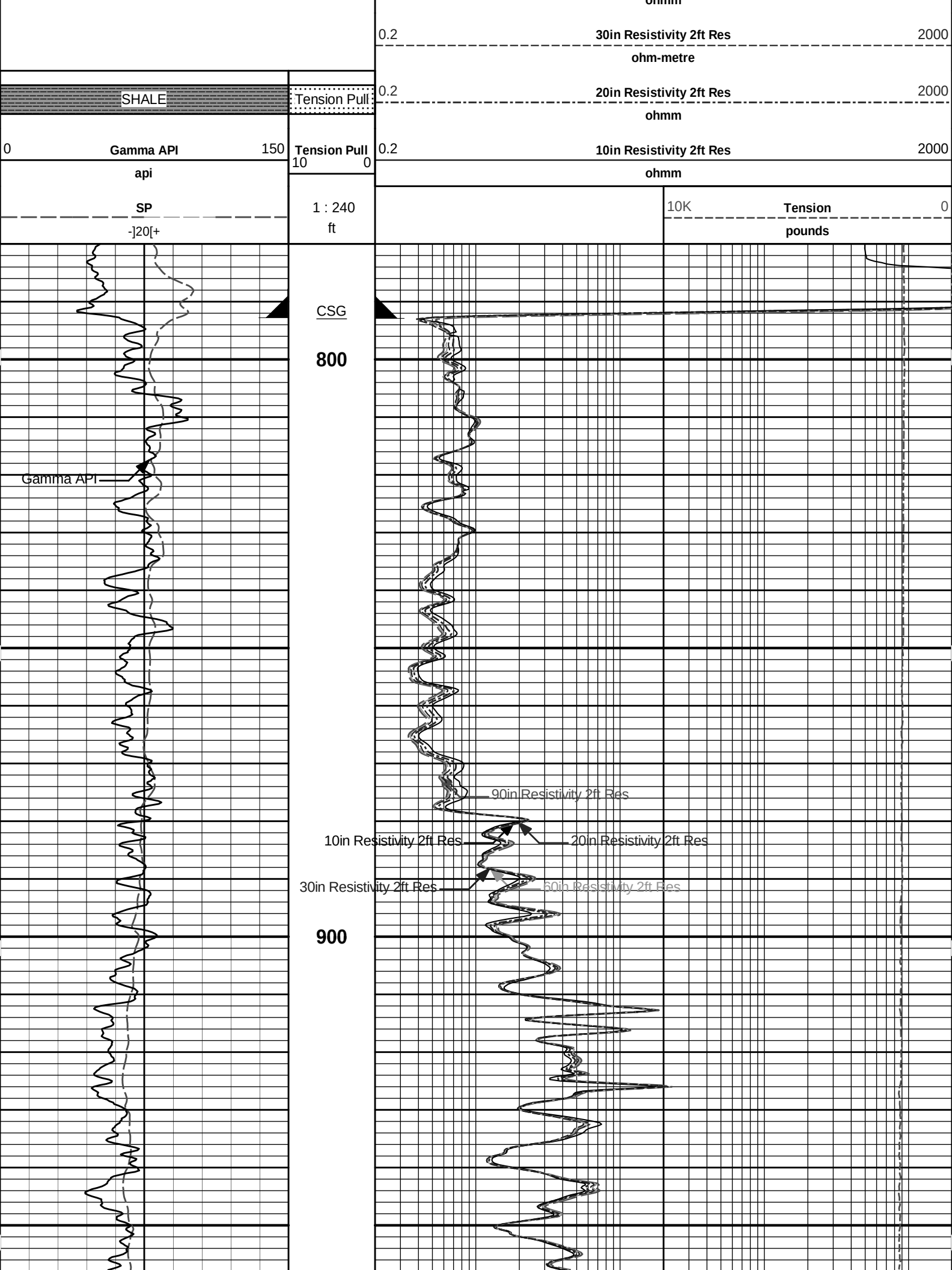
2 INCH MAIN LOG

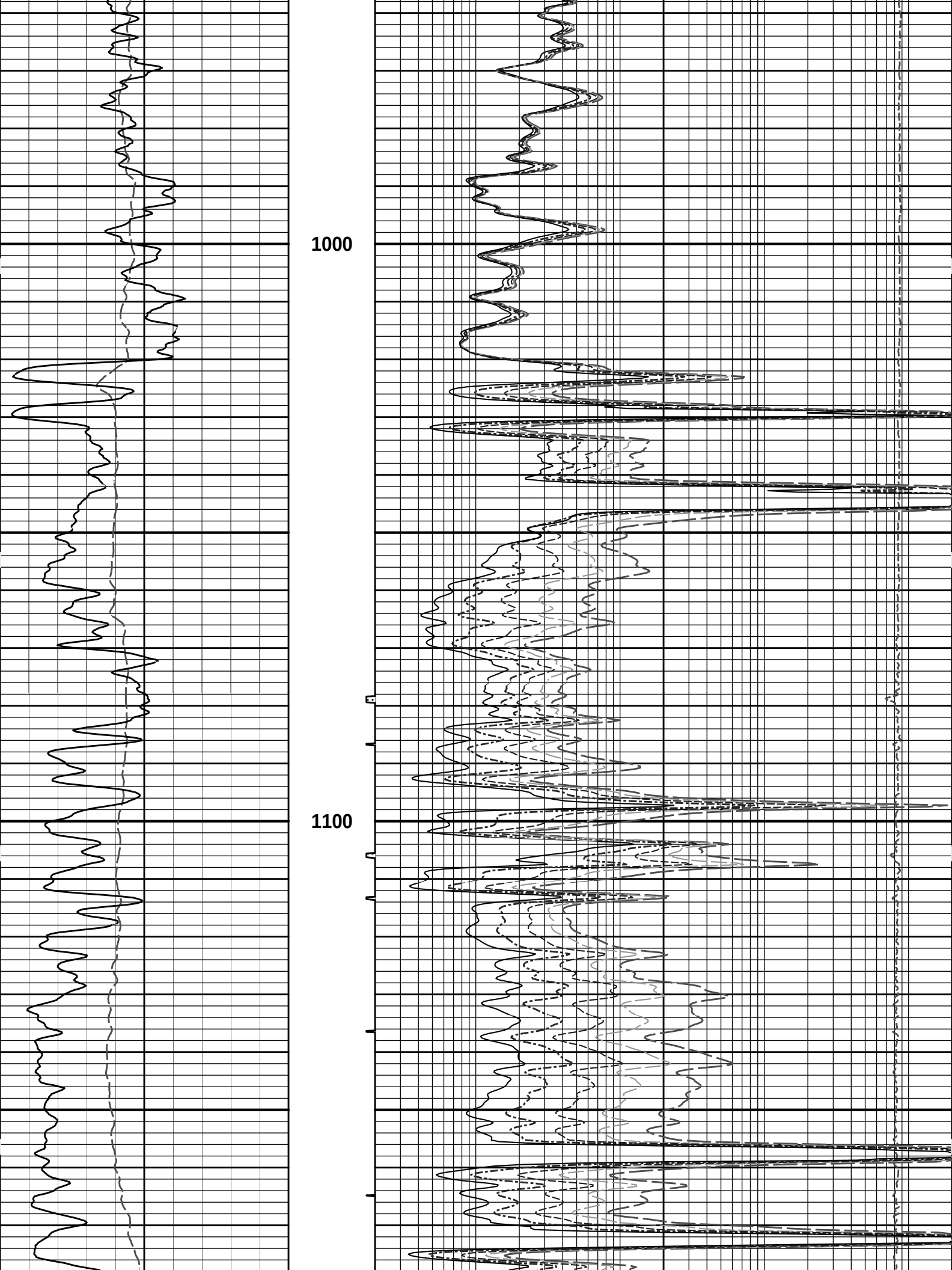
HALLIBURTON

Plot Time: 10-Aug-12 08:04:24
Plot Range: 780 ft to 6164.58 ft
Data: BROWN_TODD_SWD\Well Based\SPLICE_CASING\
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

	0.2 90in Resistivity 2ft Res 2000
	ohmm
	0.2 60in Resistivity 2ft Res 2000
	ohmm


ohmm
0.2
30in Resistivity 2ft Res
2000
ohm-metre
SHALE
Tension Pull
0.2
20in Resistivity 2ft Res
2000
ohmm
0
Gamma API
150
Tension Pull
10
0
0.2
10in Resistivity 2ft Res
2000
ohmm
api
SP
-]20[+
1 : 240
ft
10K
Tension
0
pounds
CSG
800
Gamma API
90in Resistivity 2ft Res
10in Resistivity 2ft Res
20in Resistivity 2ft Res
30in Resistivity 2ft Res
60in Resistivity 2ft Res
900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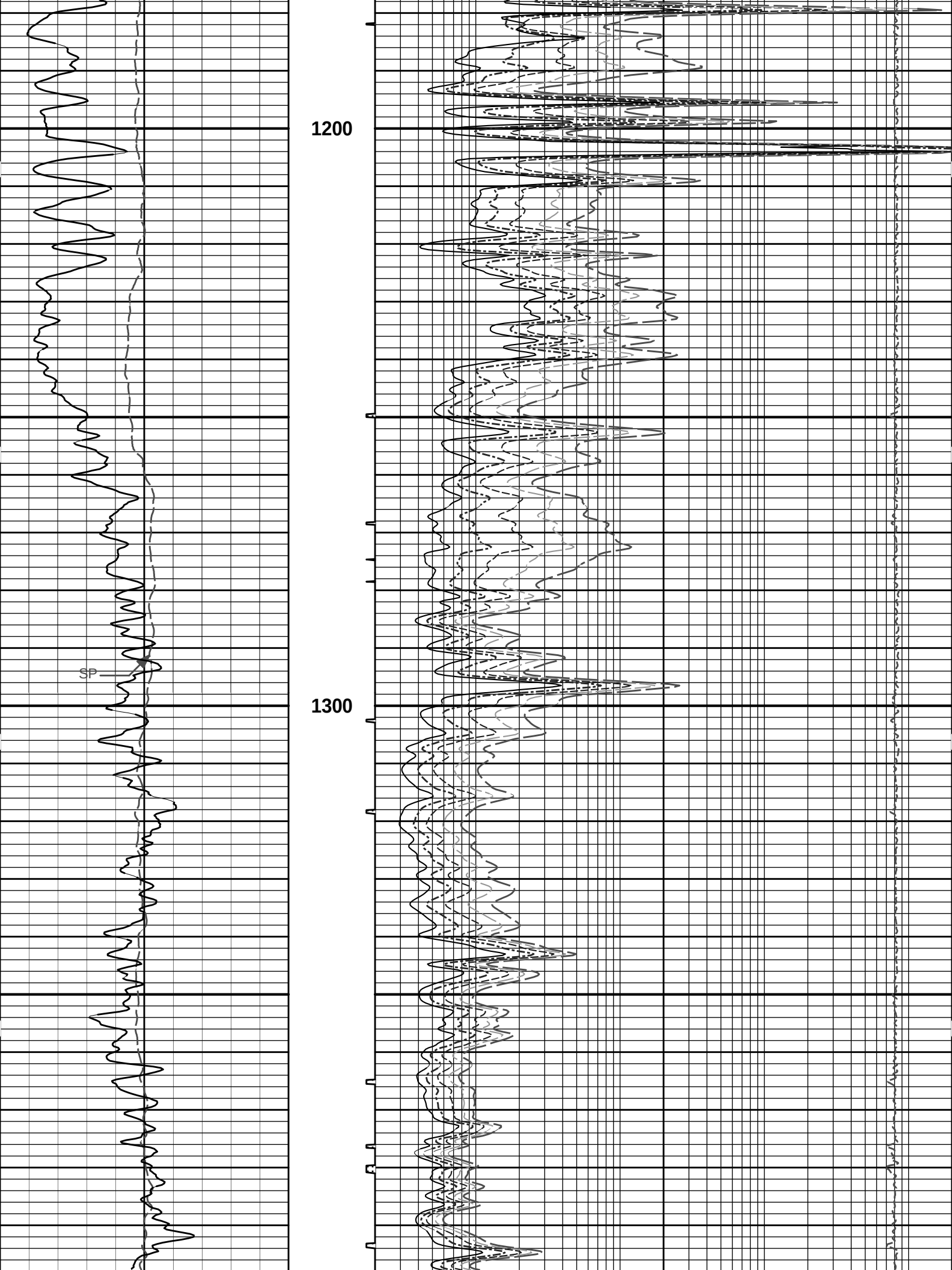
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SP
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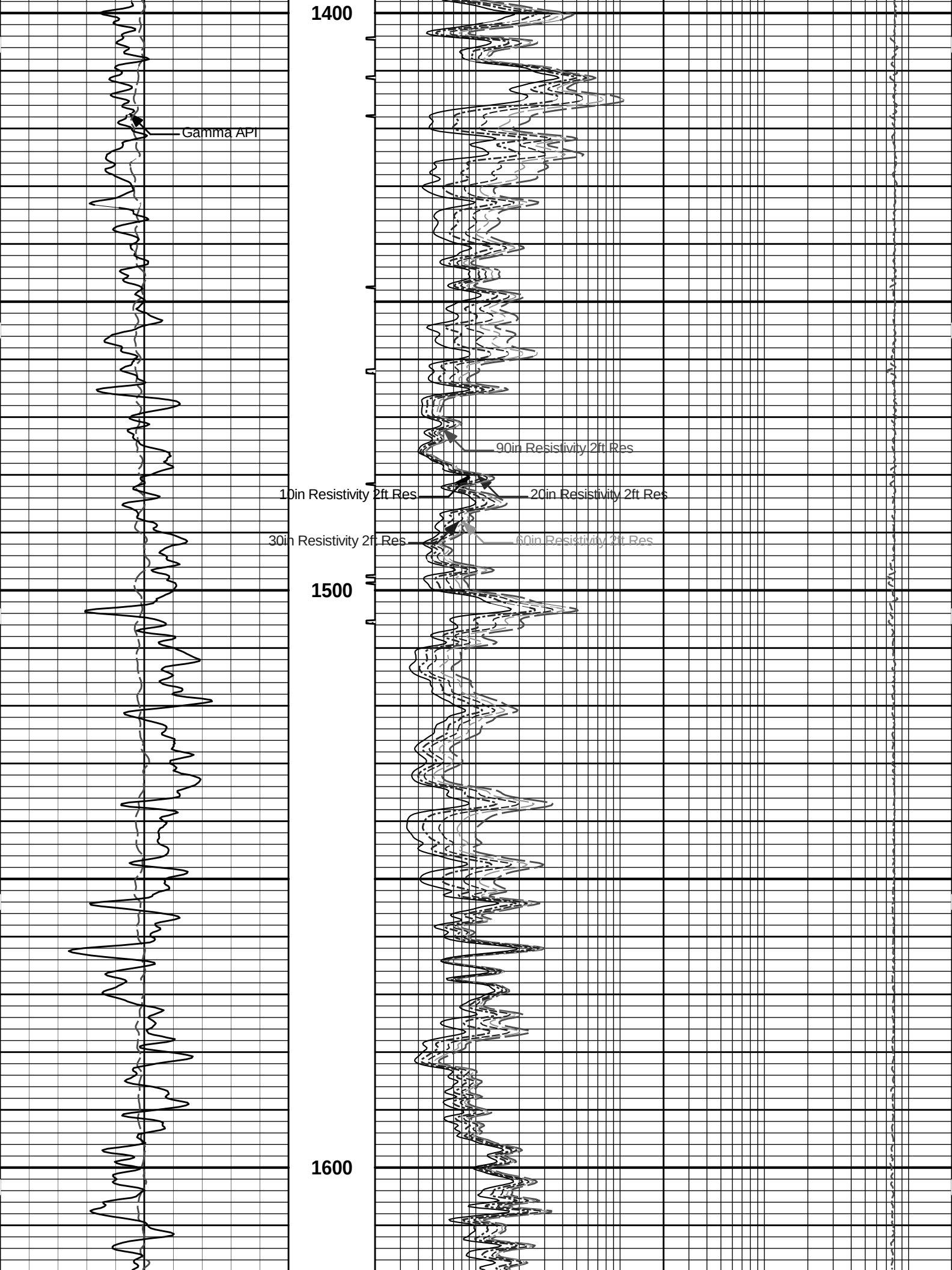
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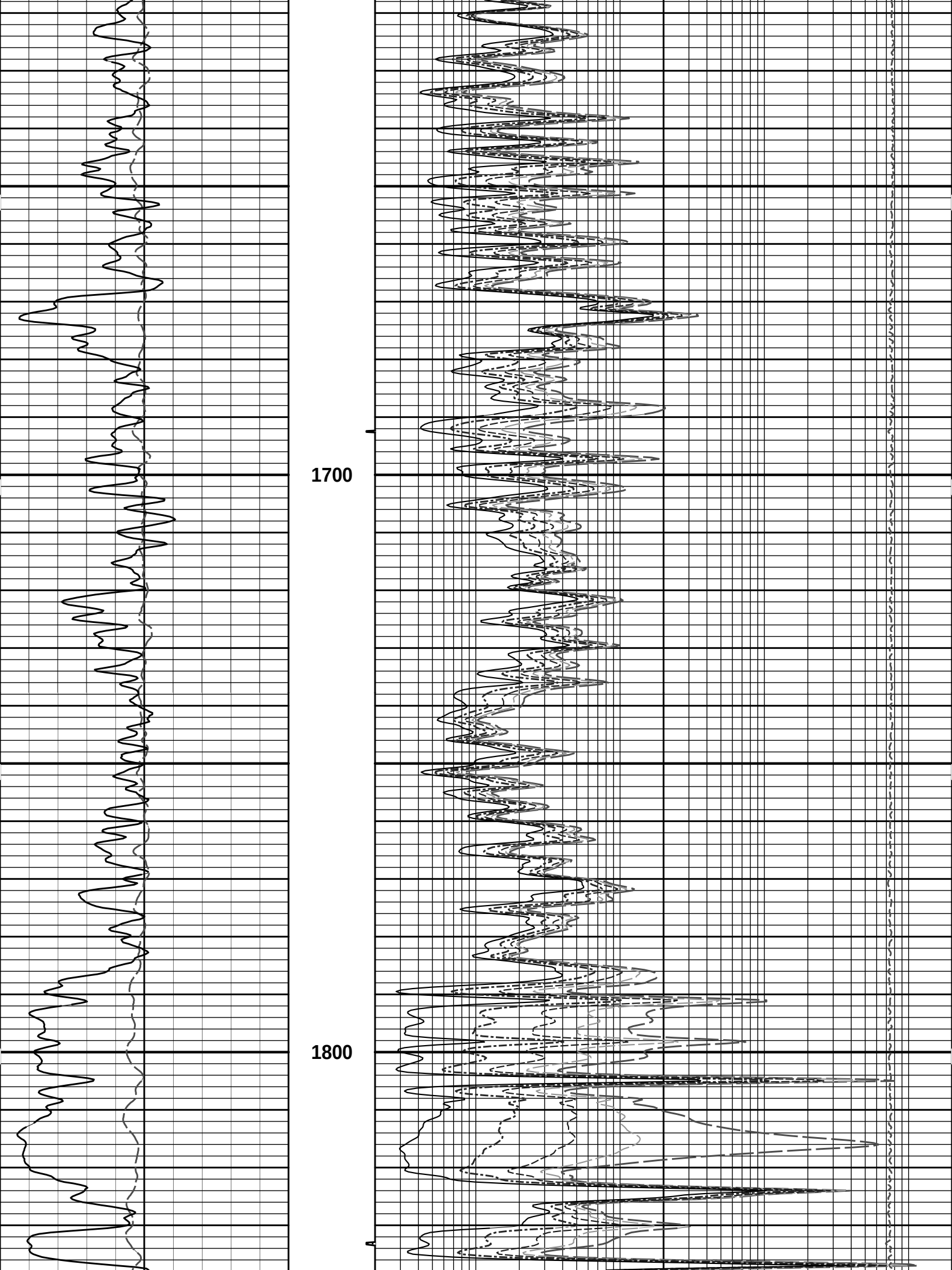
30in Resistivity 2ft Res
60in Resistivity 2ft Res
1500
1600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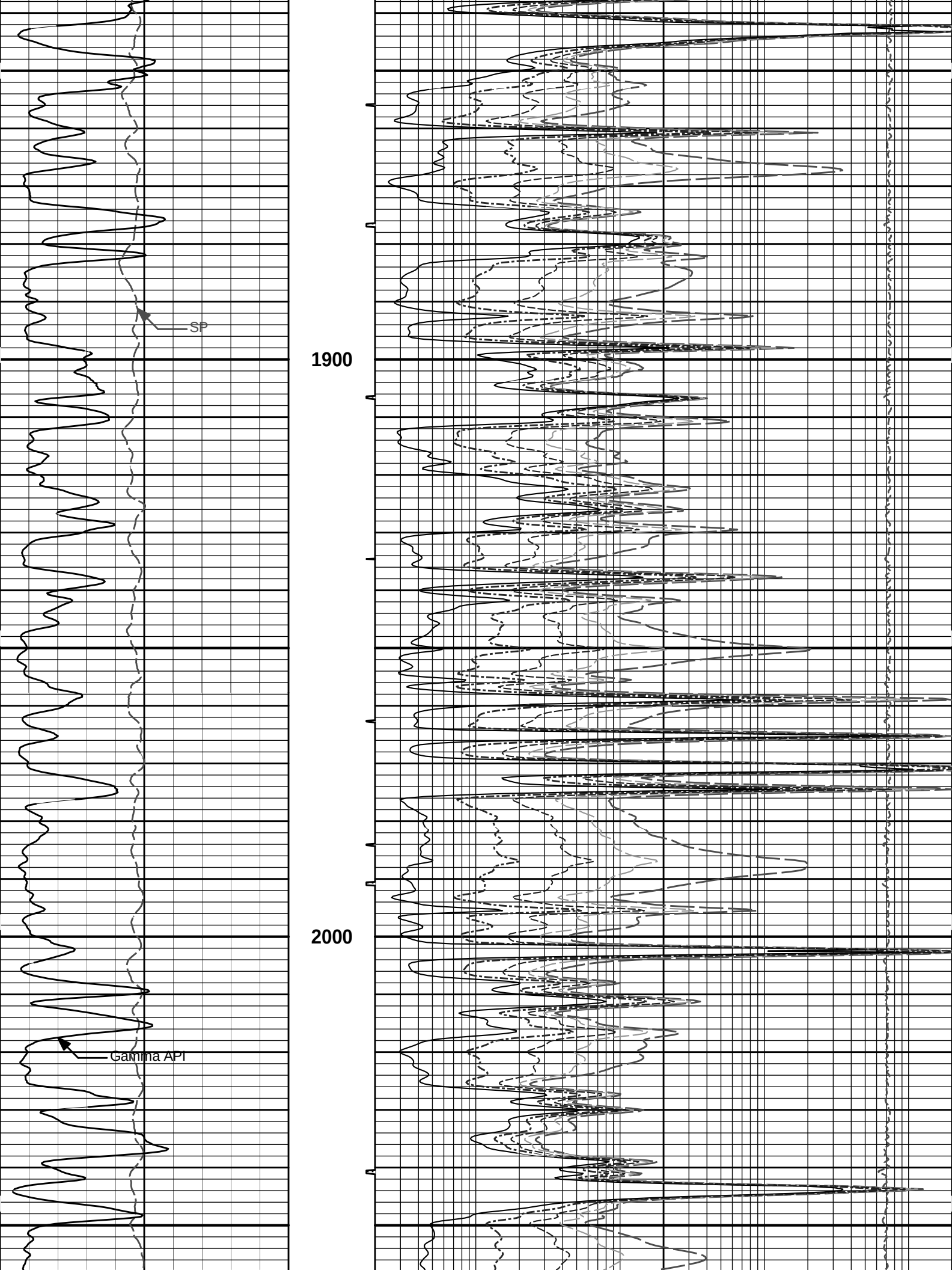
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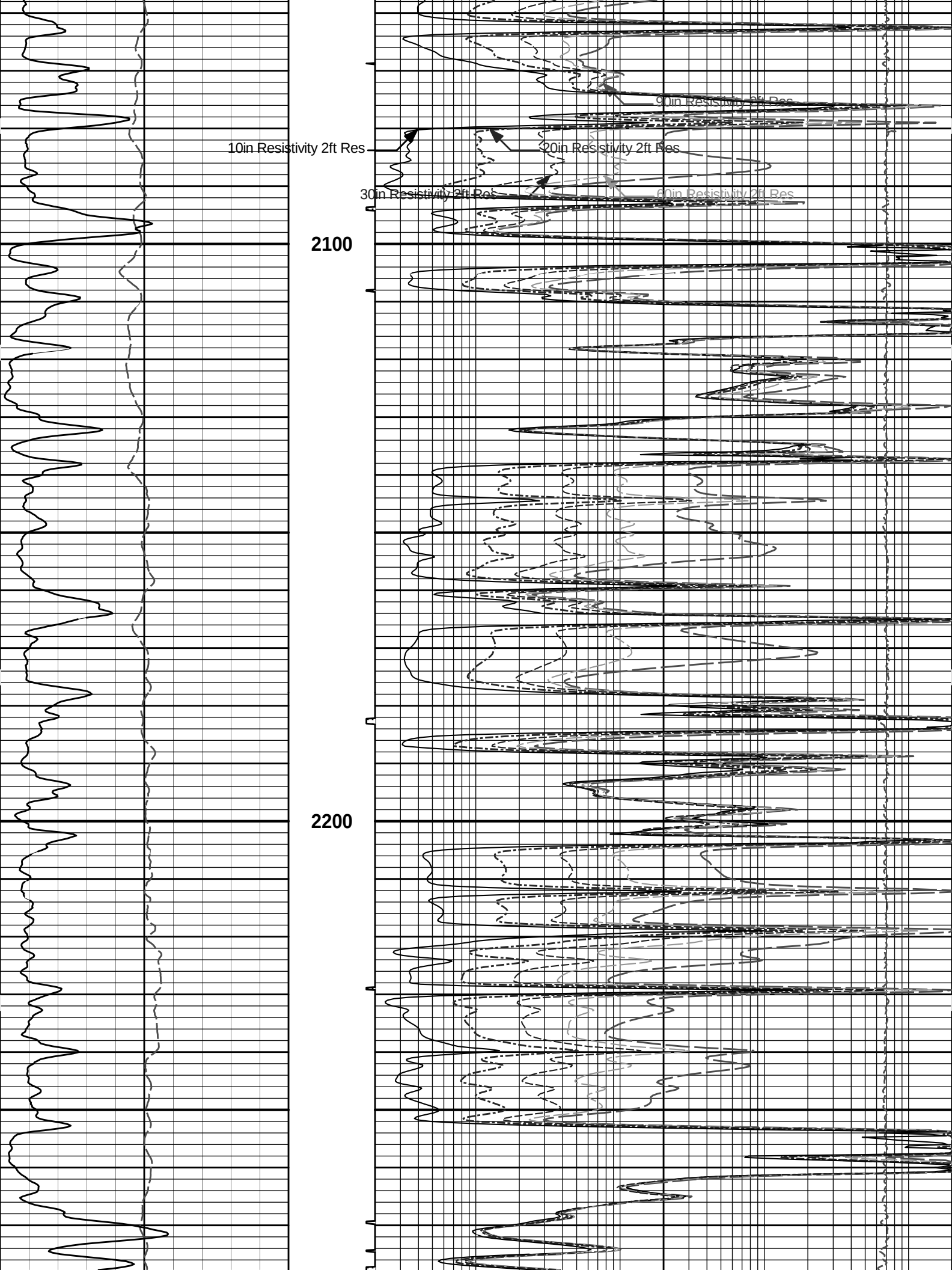
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10in Resistivity 2ft Res
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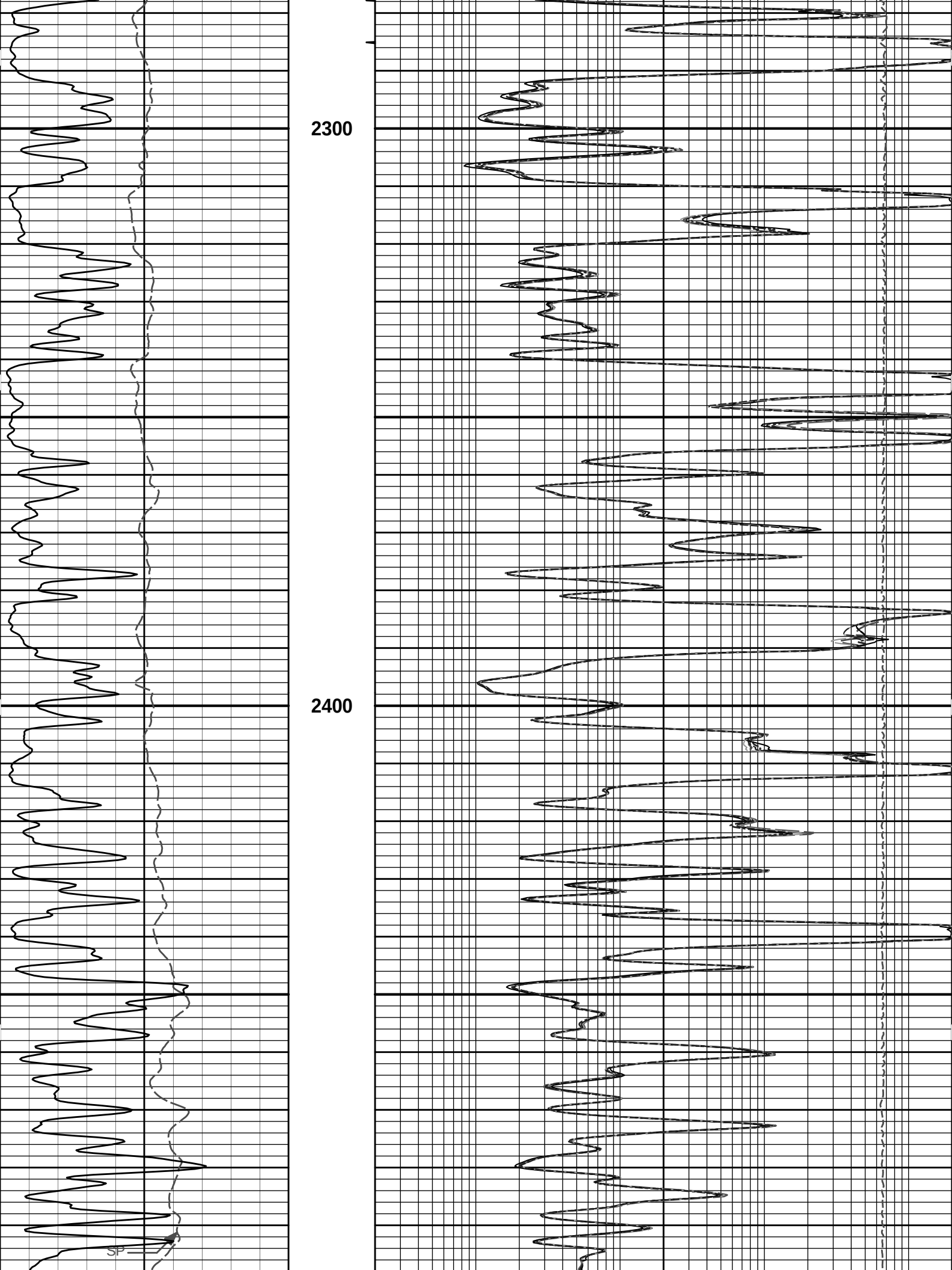
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2400
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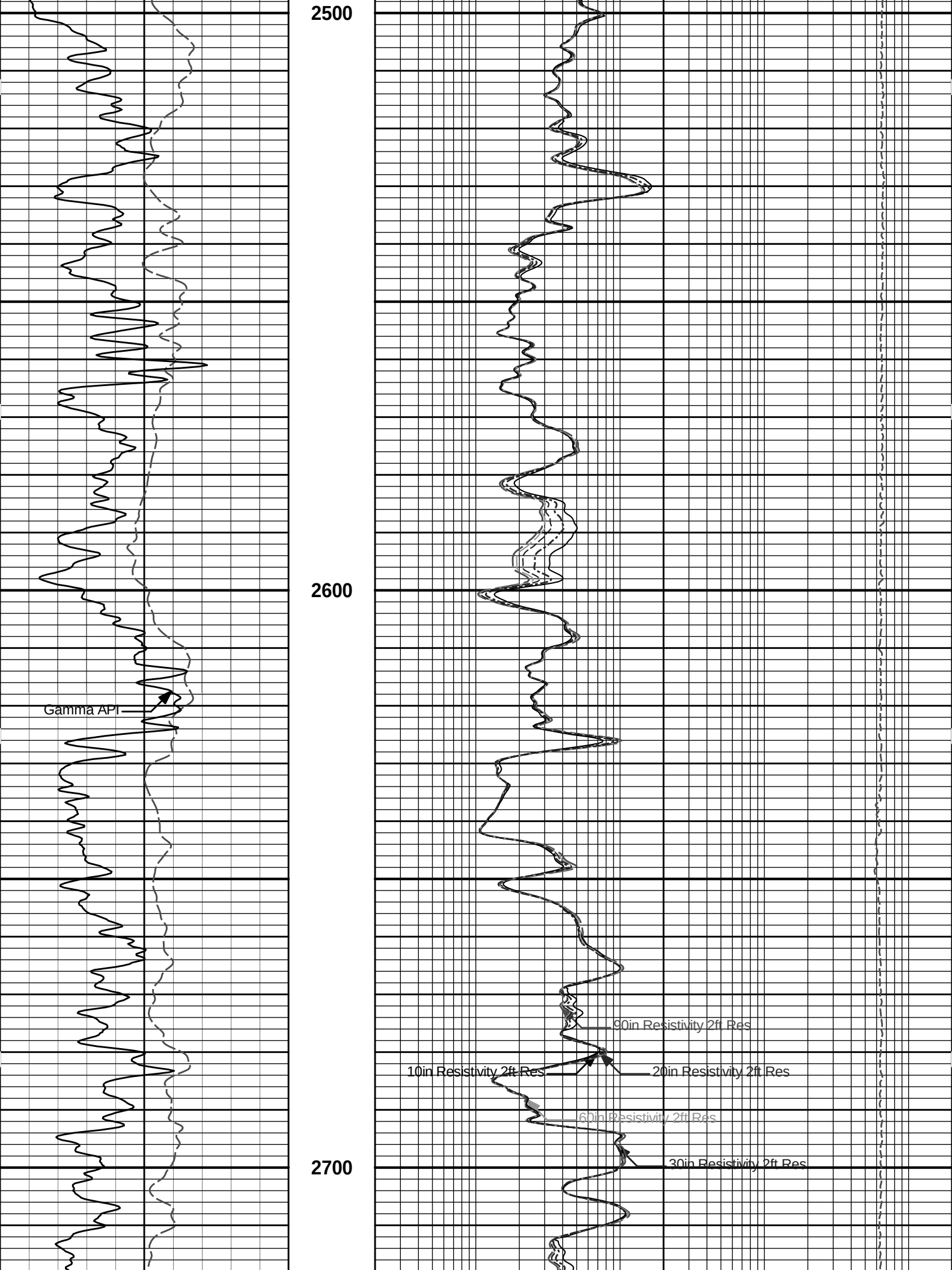
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2700
Gamma API
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10in Resistivity 2ft Res
20in Resistivity 2ft Res
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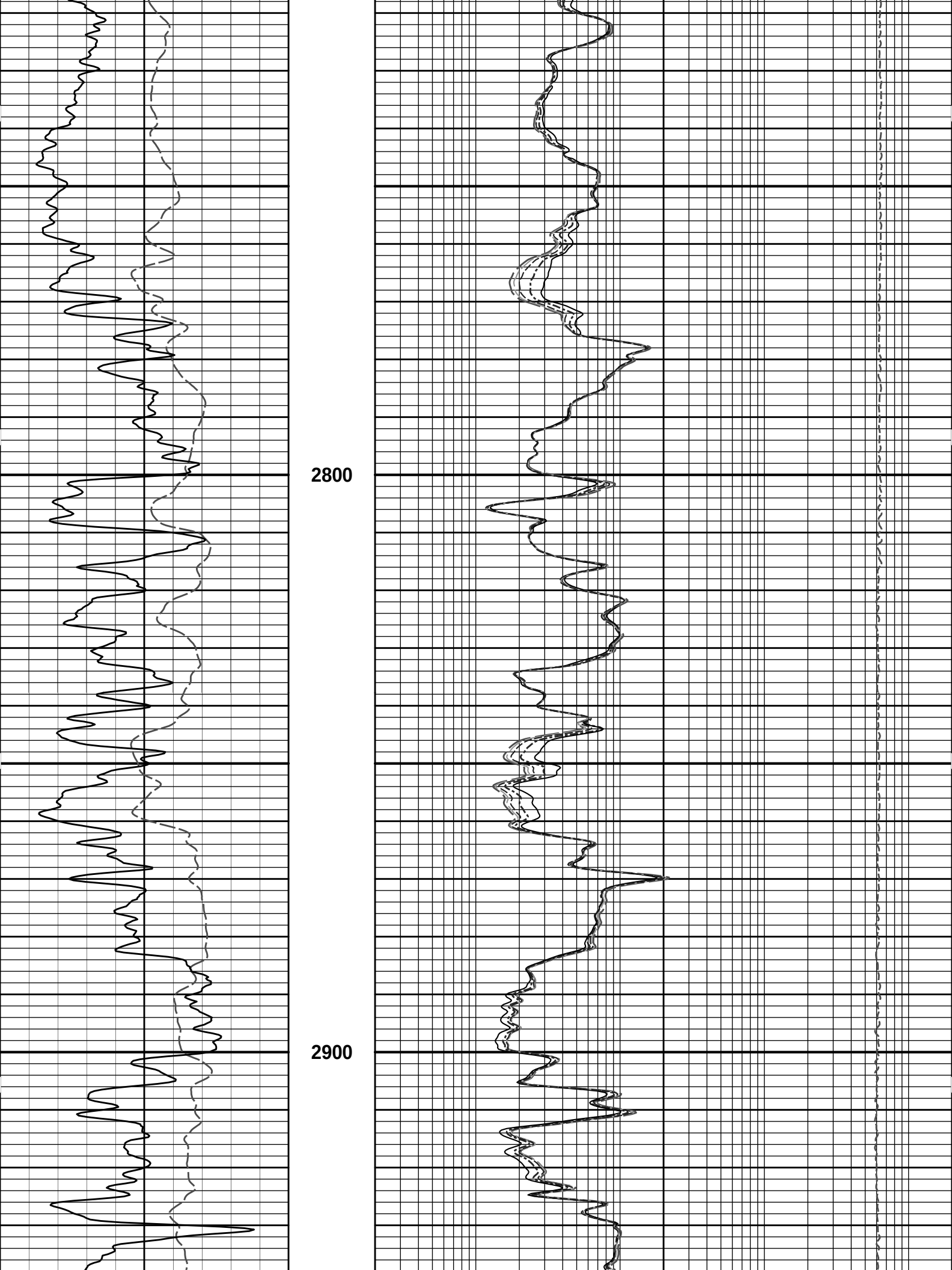
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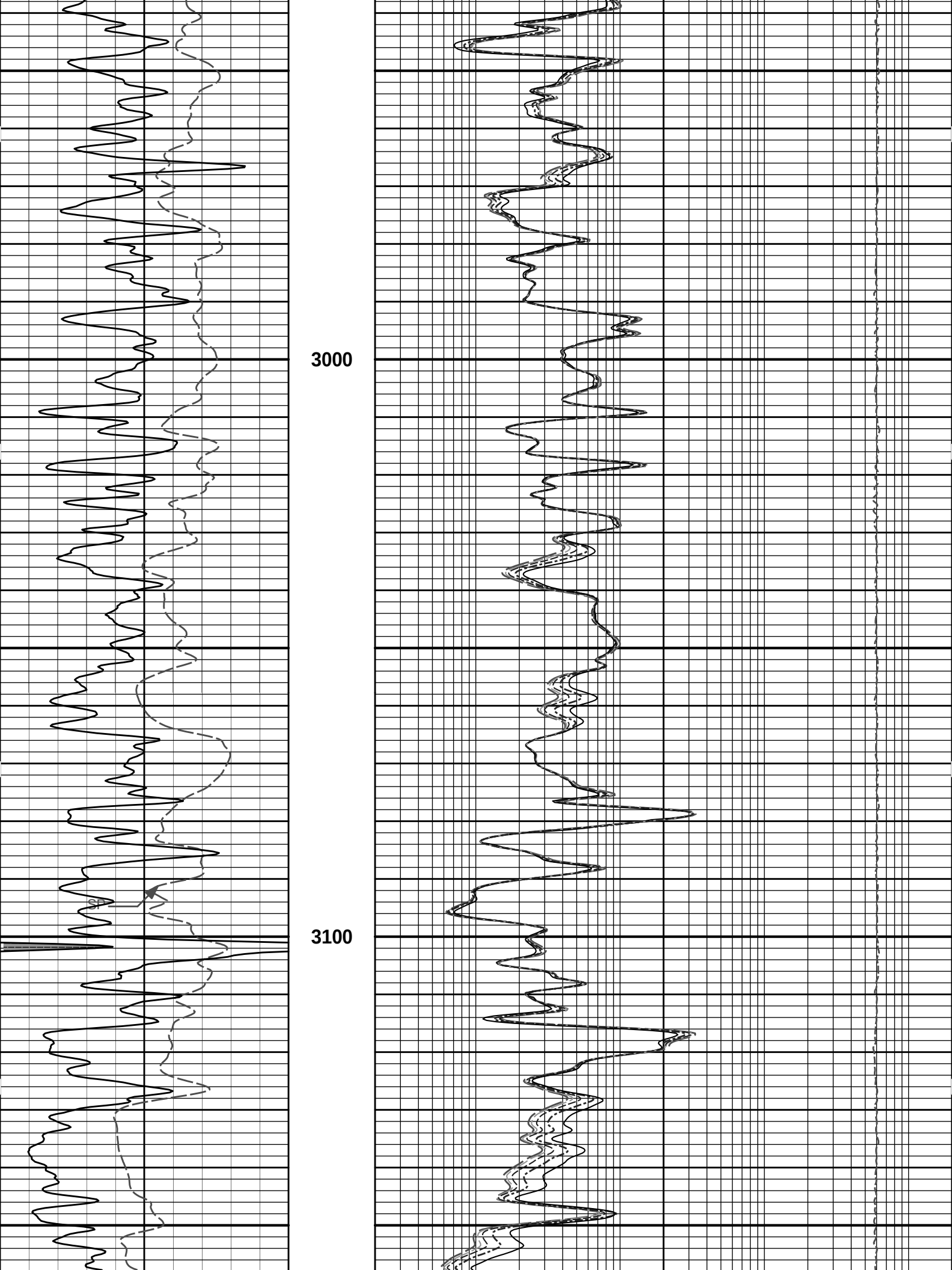
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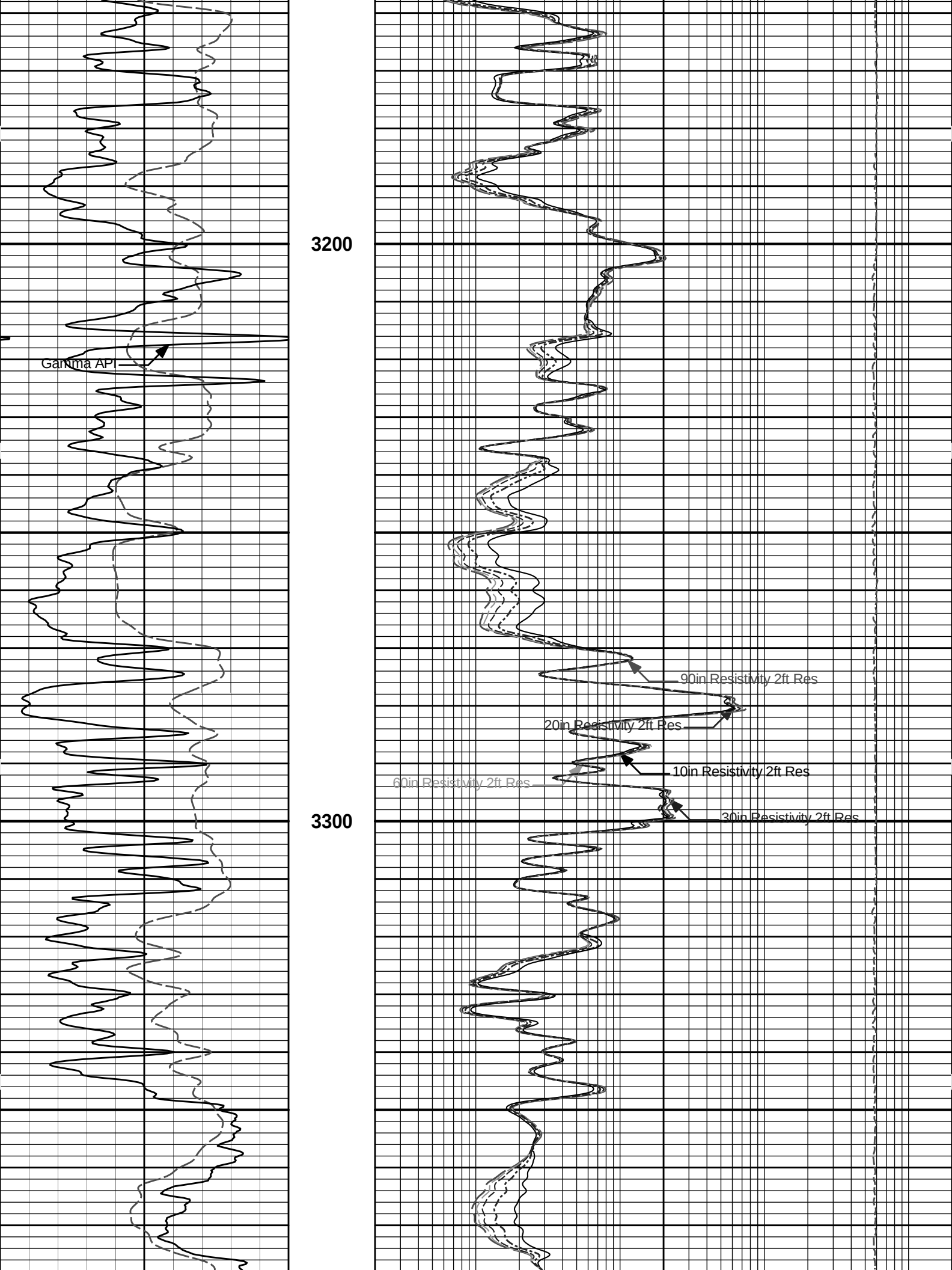
3200
Gamma API
90in Resistivity 2ft Res
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
30in Resistivity 2ft Res
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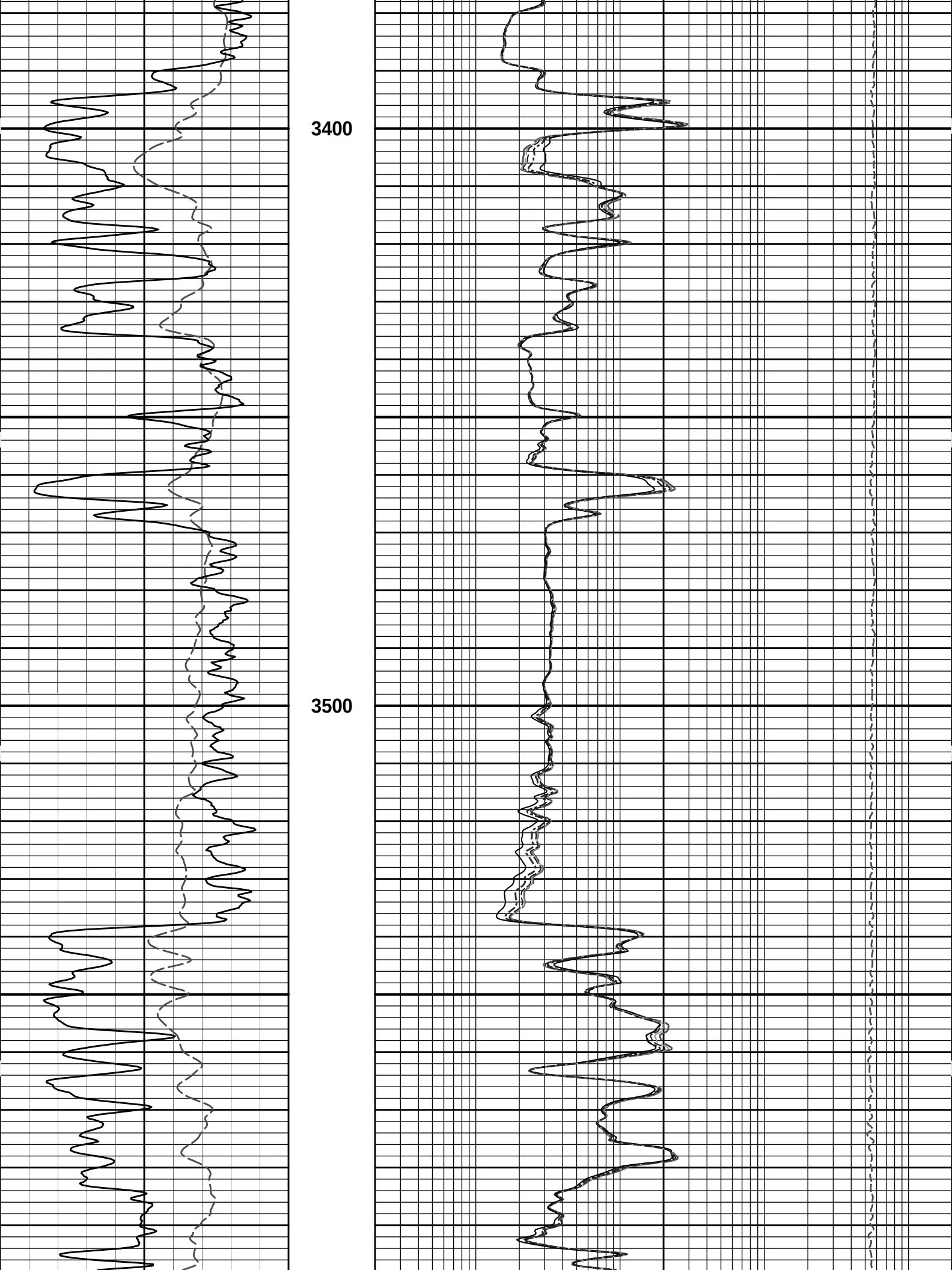
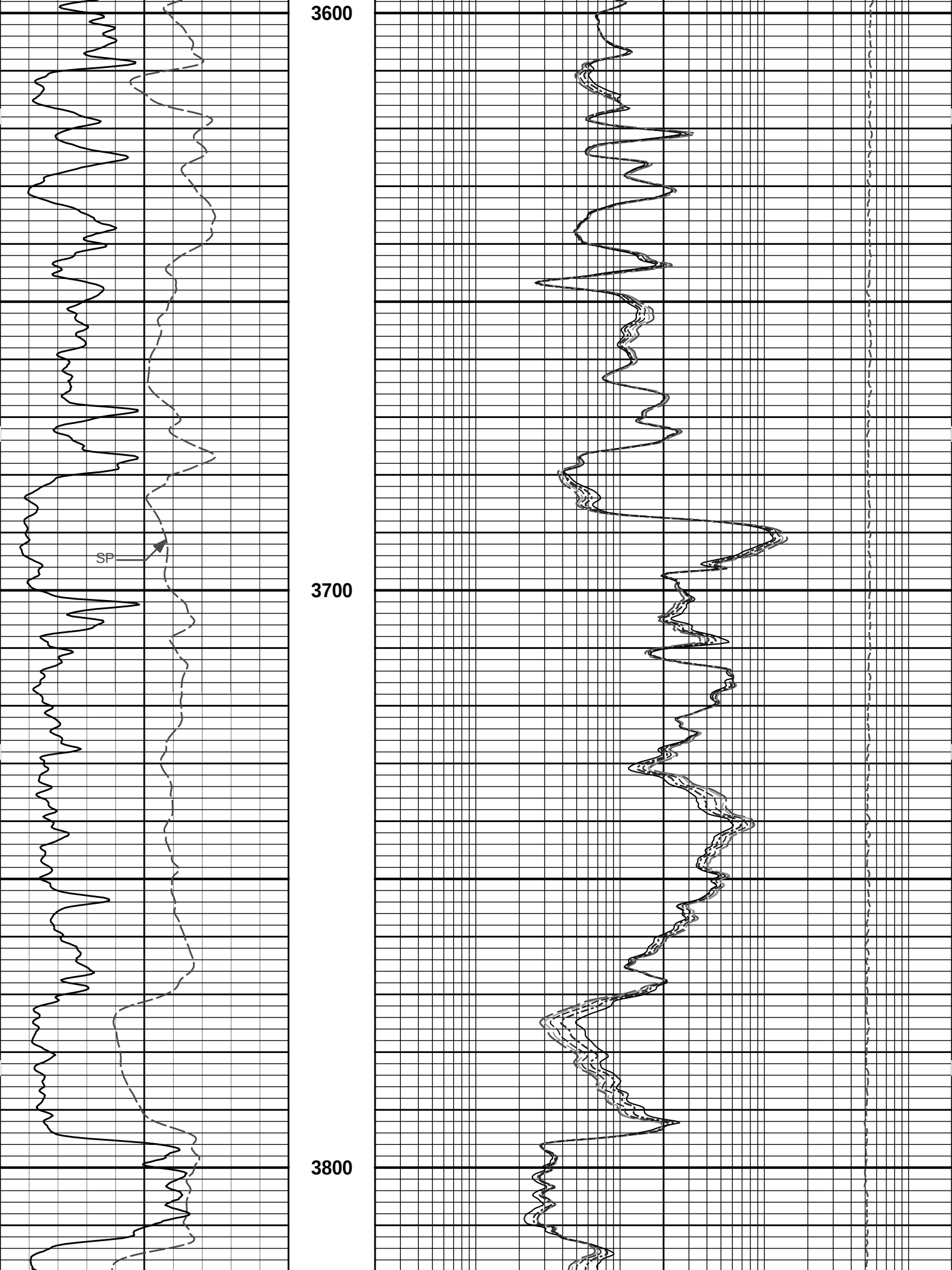
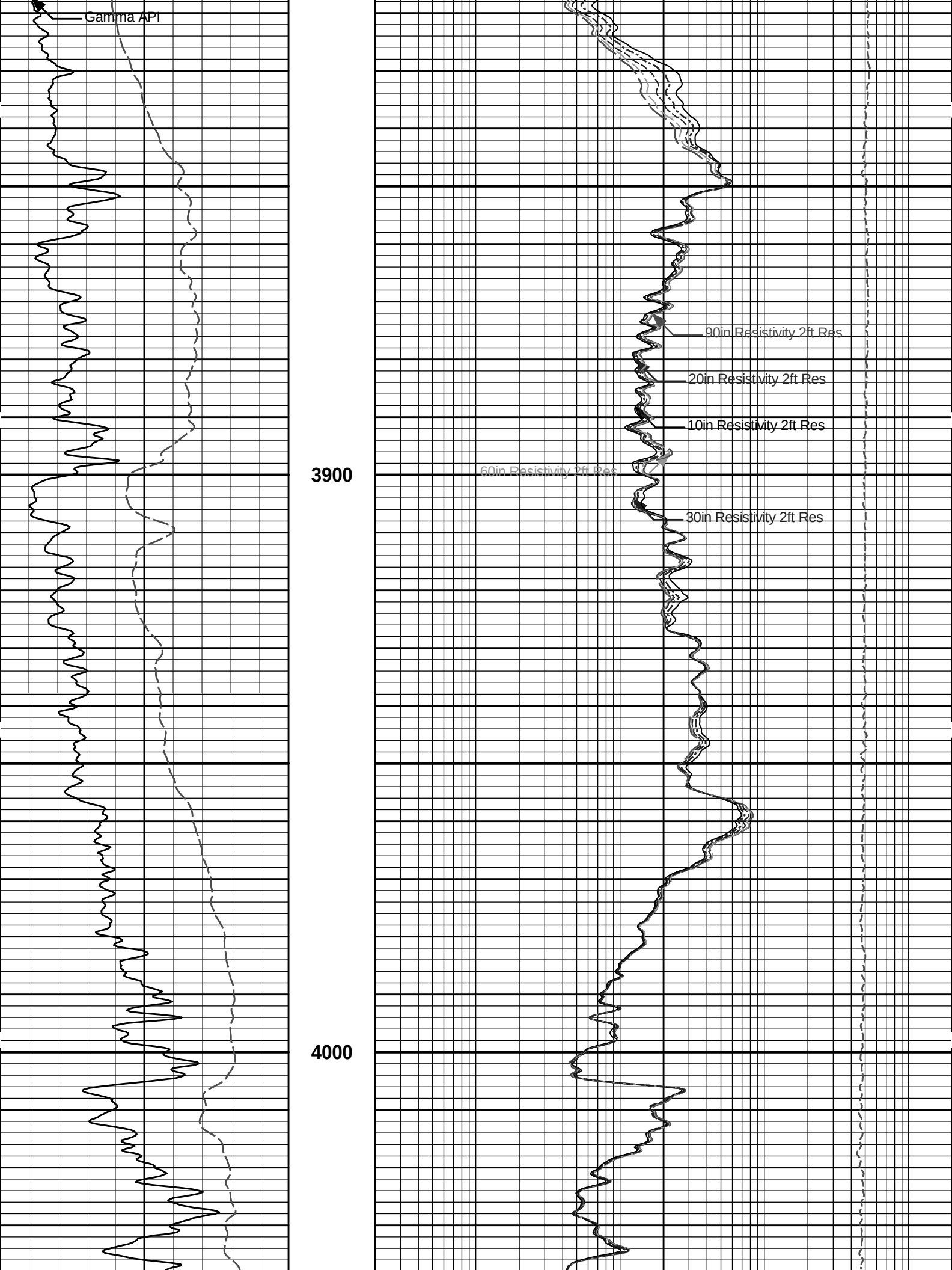
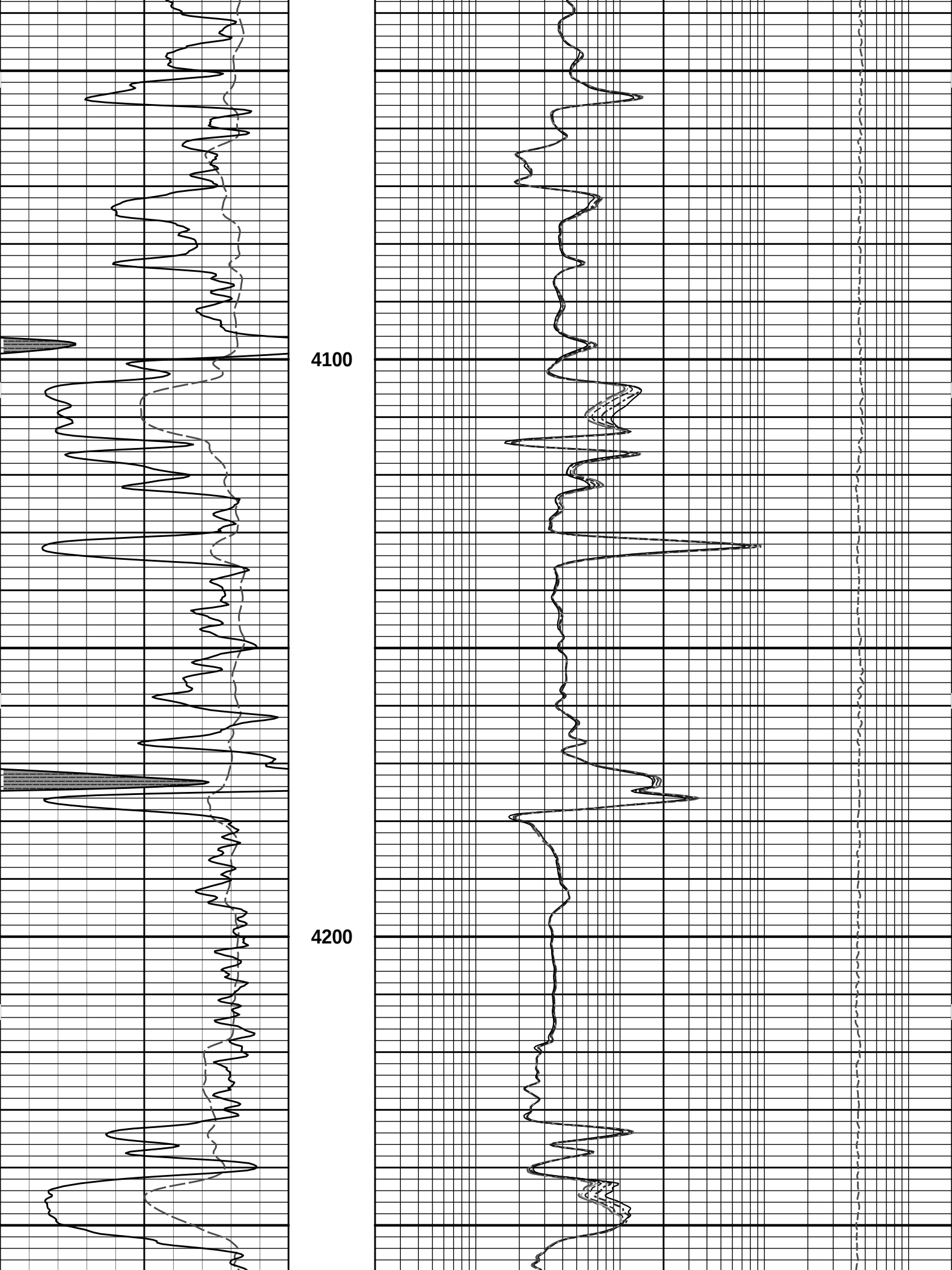
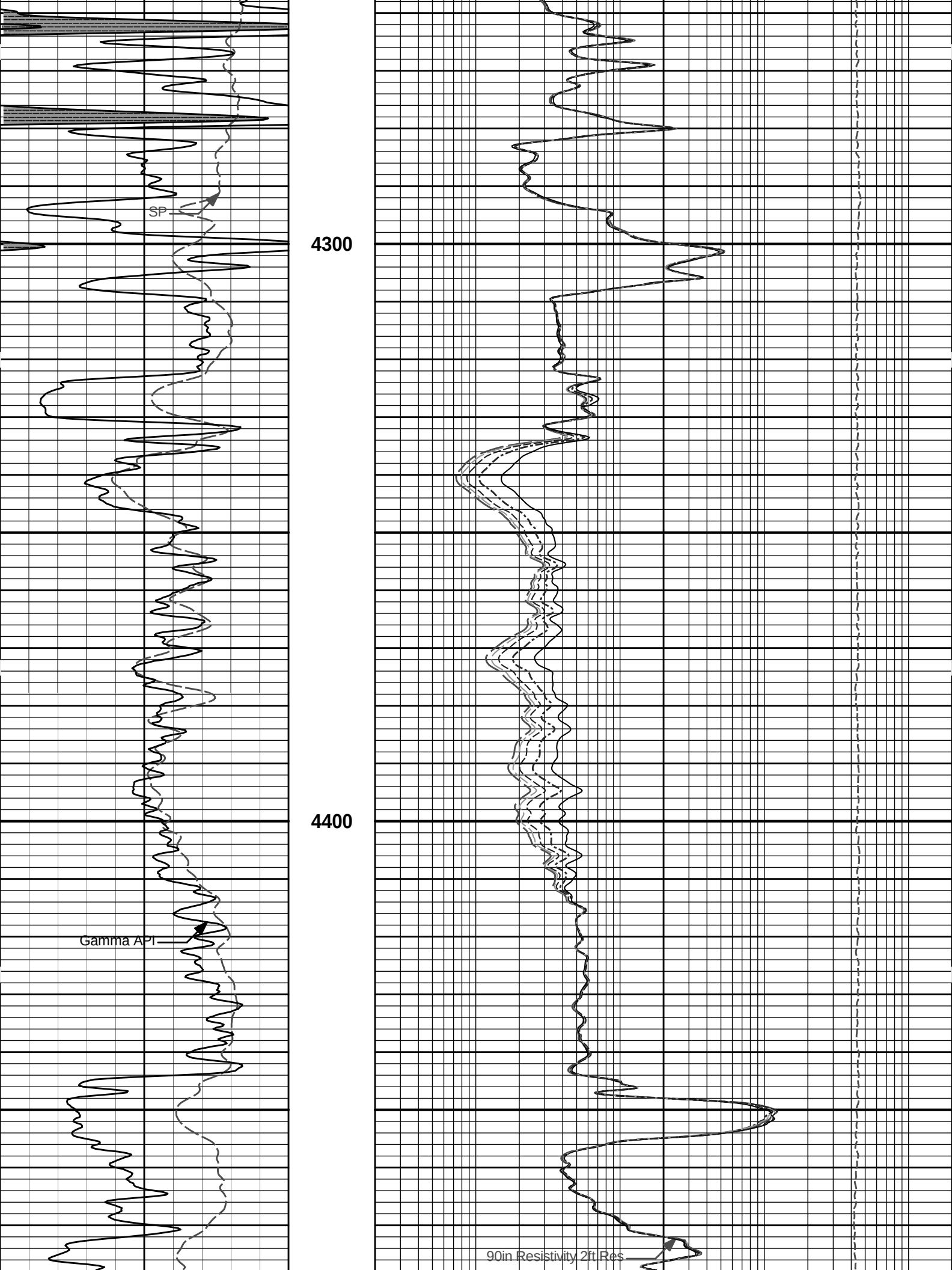

3400
3500

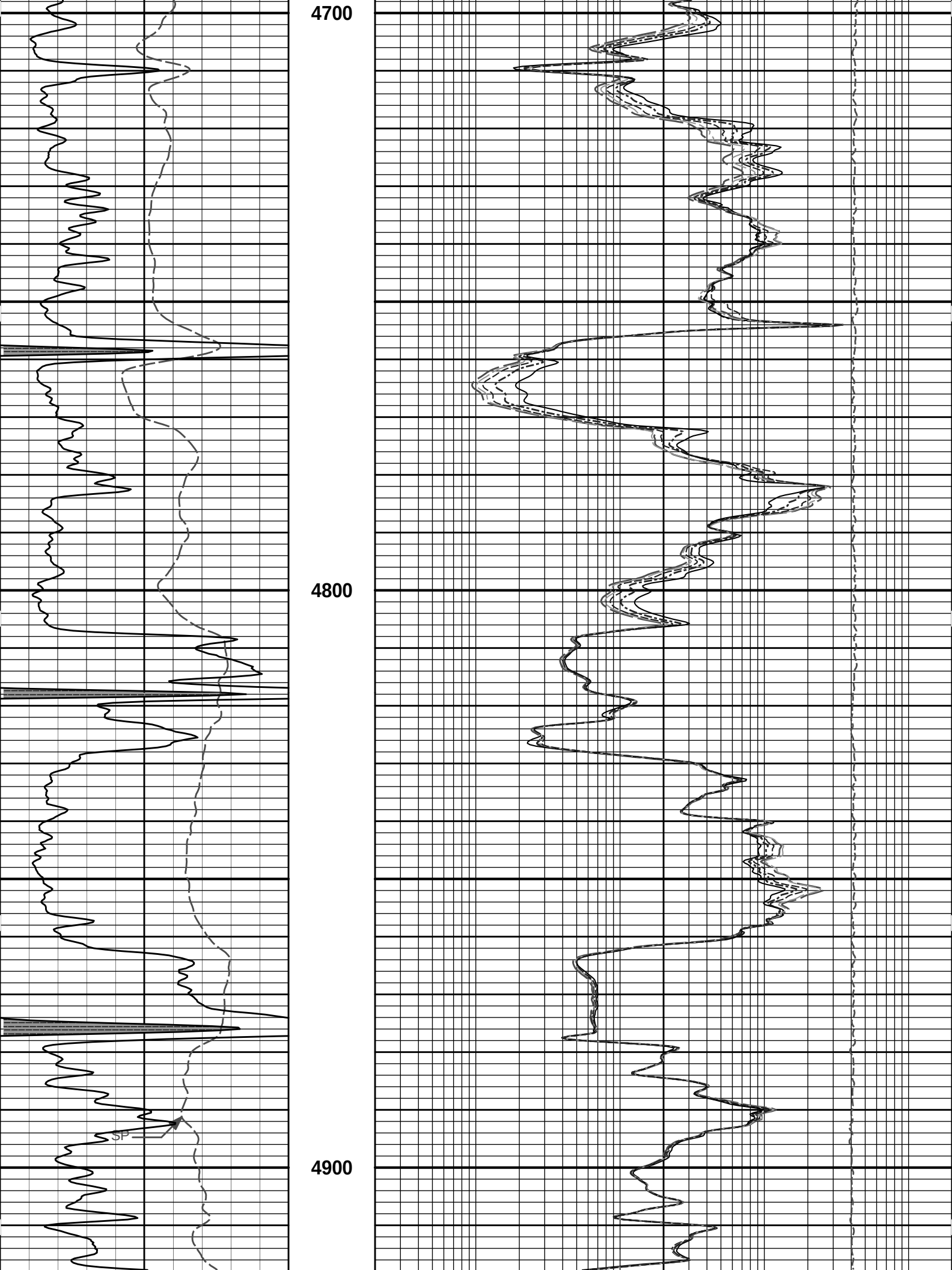

3600
SP
3700
3800

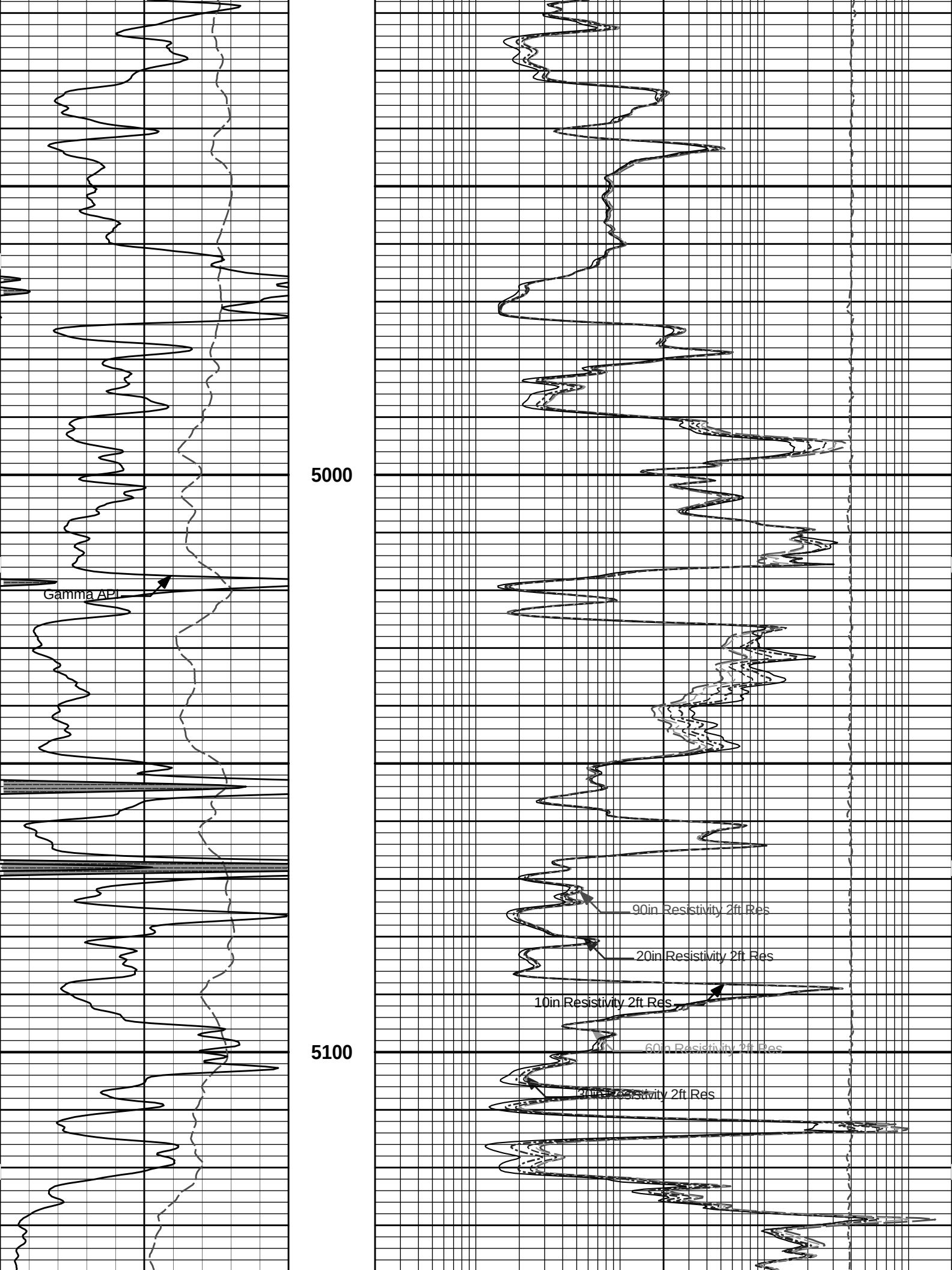

Gamma API
90in Resistivity 2ft Res
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
30in Resistivity 2ft Res
3900
4000

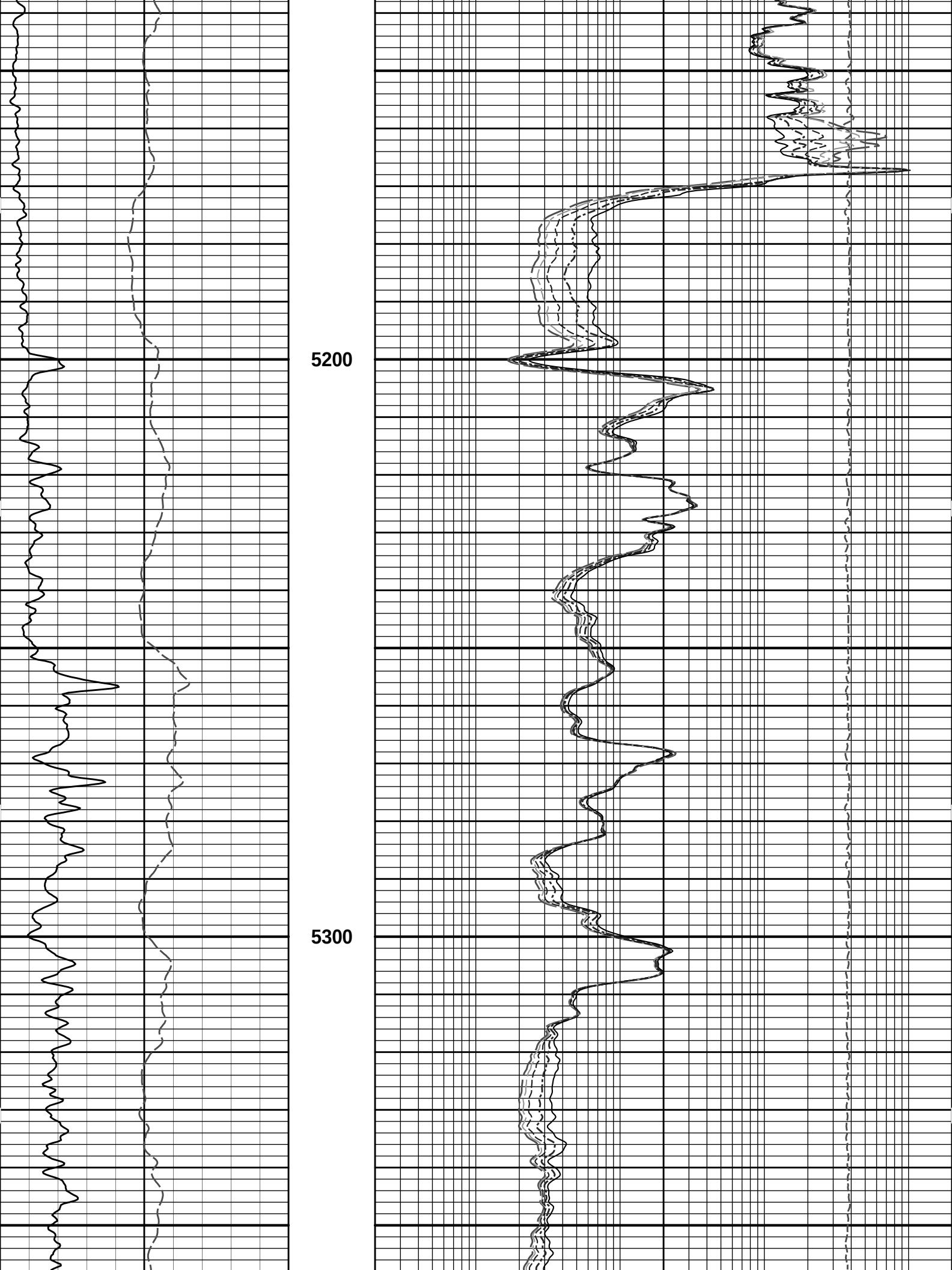

4100
4200

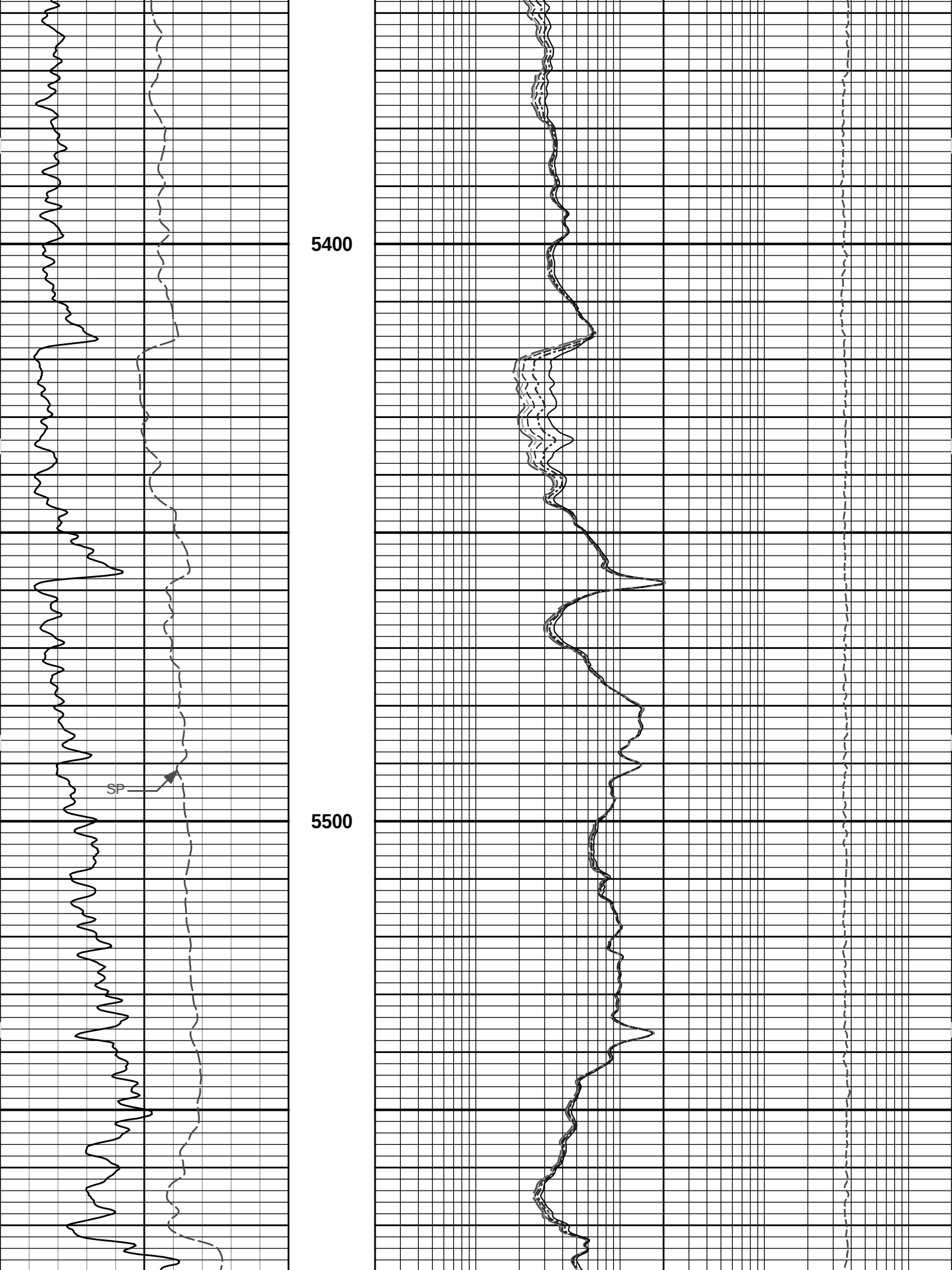

SP
4300
4400
Gamma API
90in Resistivity 2ft Res

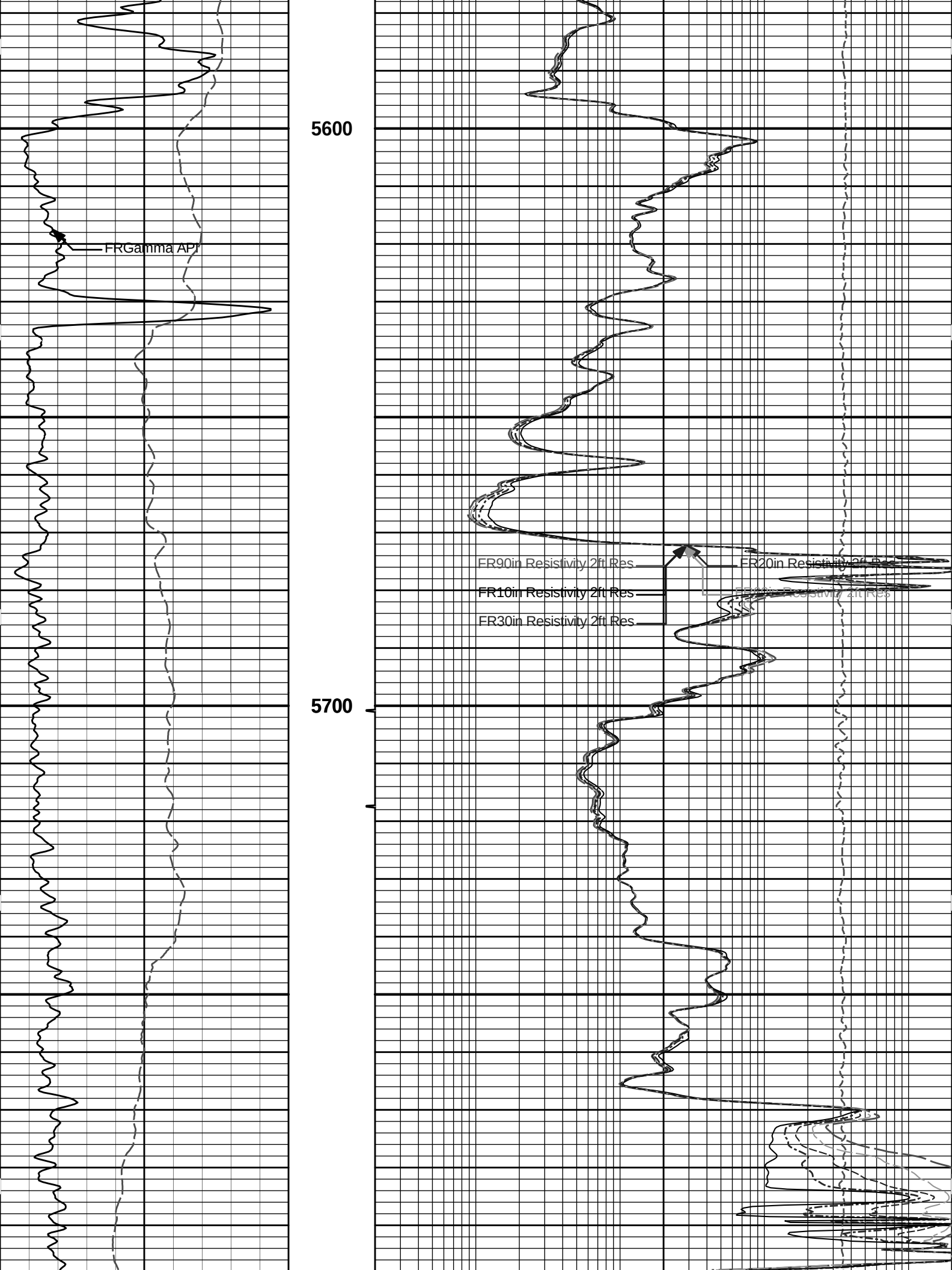

20in Resistivity 2ft Res
10in Resistivity 2ft Res
30in Resistivity 2ft Res
4500
4600

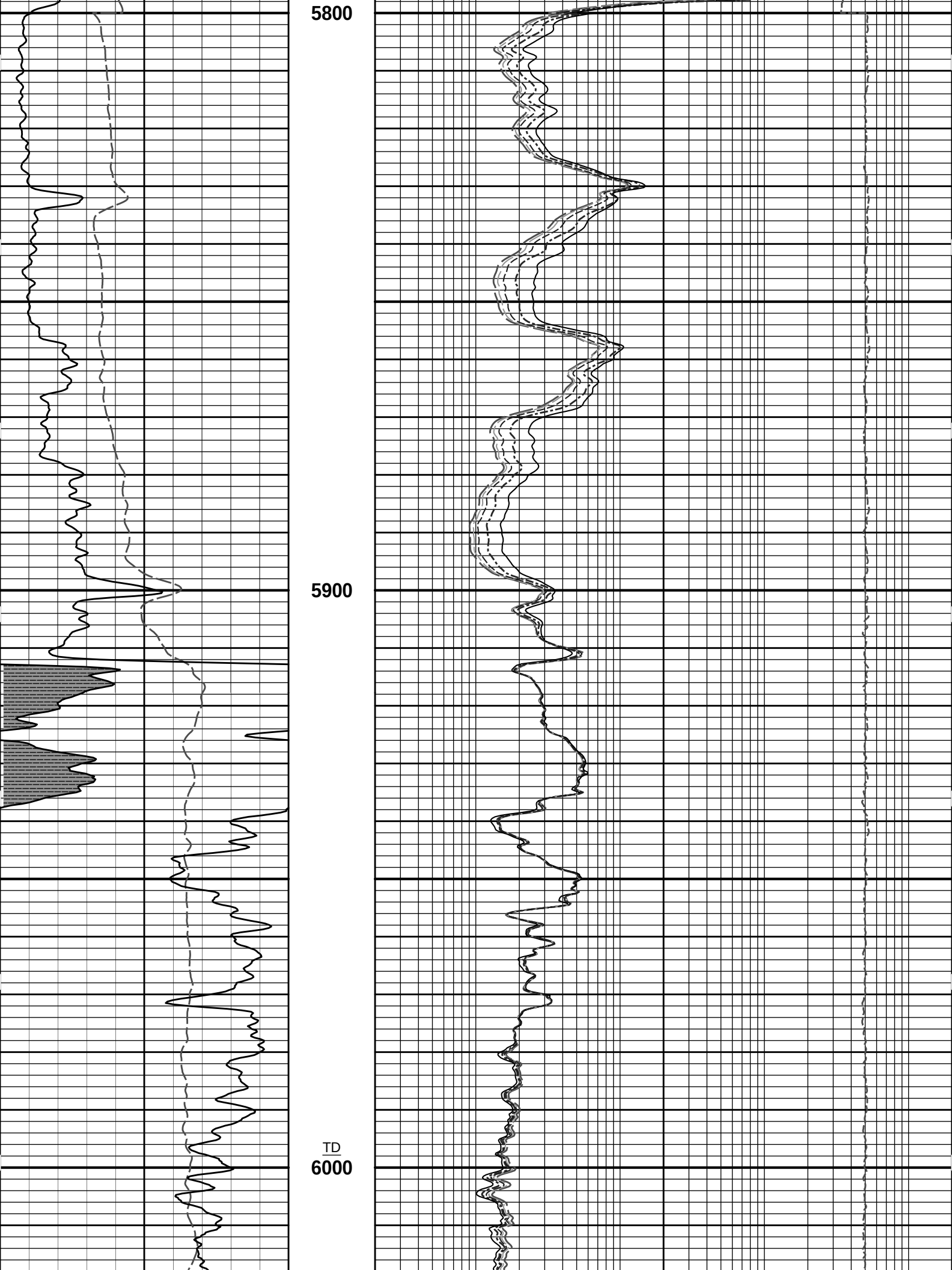

4700
4800
SP
4900

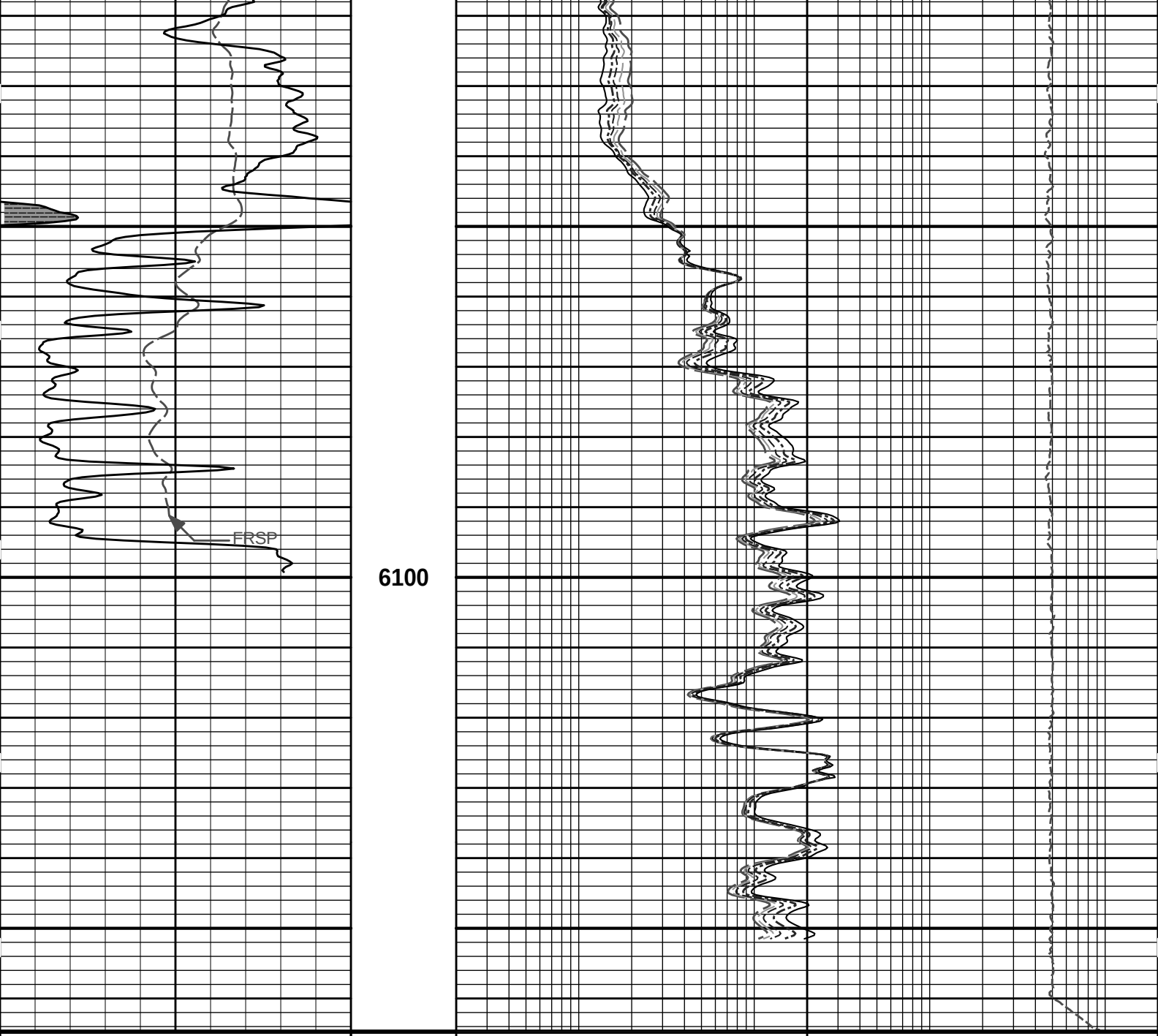

5000
Gamma API
90in Resistivity 2ft Res
20in Resistivity 2ft Res
10in Resistivity 2ft Res
60in Resistivity 2ft Res
5100


5200
5300


5400
SP
5500


5600
FRGamma API
FR90in Resistivity 2ft Res
FR10in Resistivity 2ft Res
FR30in Resistivity 2ft Res
FR20in Resistivity 2ft Res
5700


5800
5900
TD
6000



SP	1 : 240		10K Tension	0
-]20[+	ft		pounds	
0 Gamma API 150	Tension Pull	0.2 10in Resistivity 2ft Res		2000
api	10 0	ohmm		
SHALE	Tension Pull	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

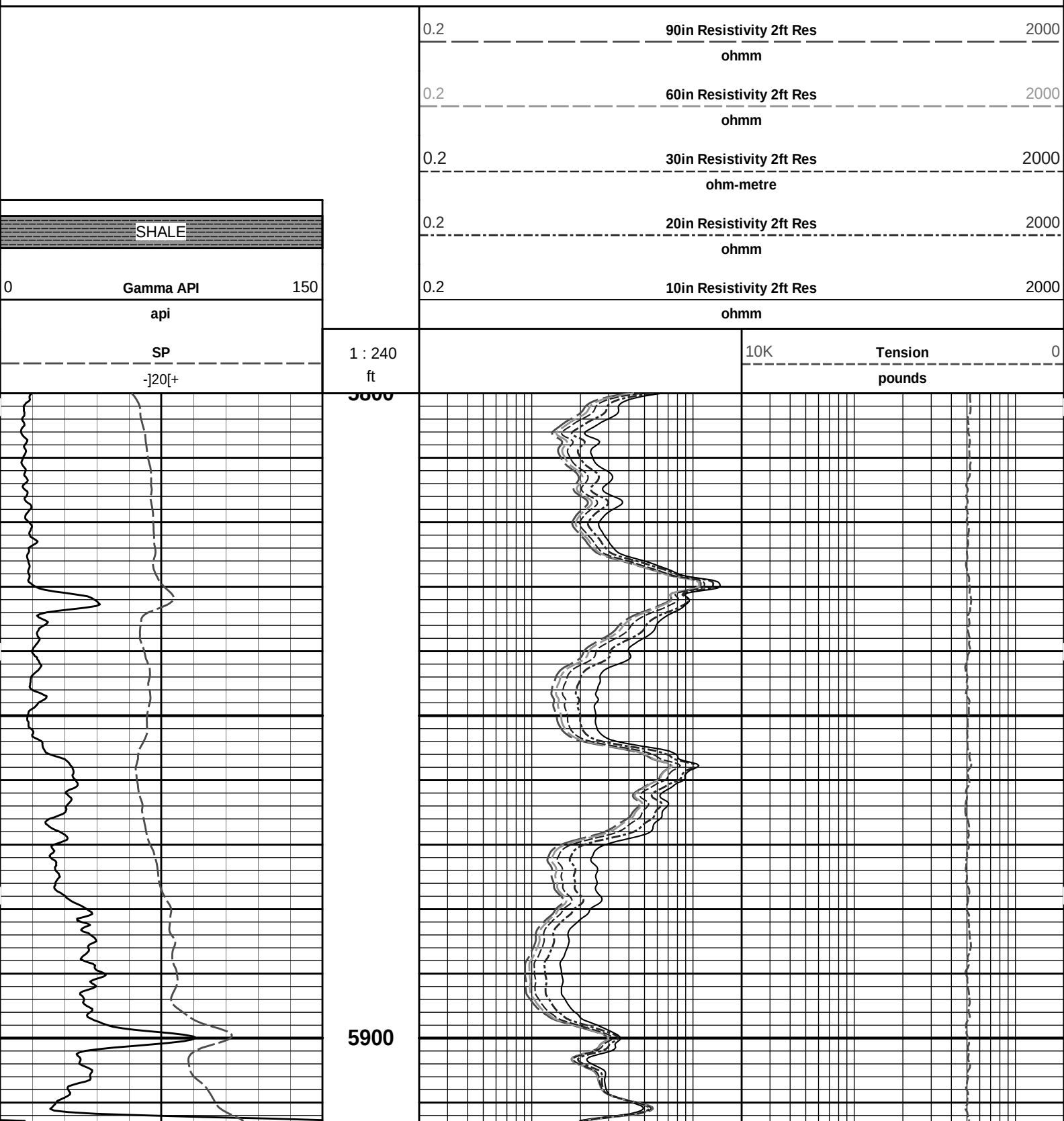
Plot Time: 10-Aug-12 08:04:42
Plot Range: 780 ft to 6164.58 ft
Data: BROWN_TODD_SWD\Well Based\SPLICE_CASING\
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\ACRT\ACRT_5_main_lib

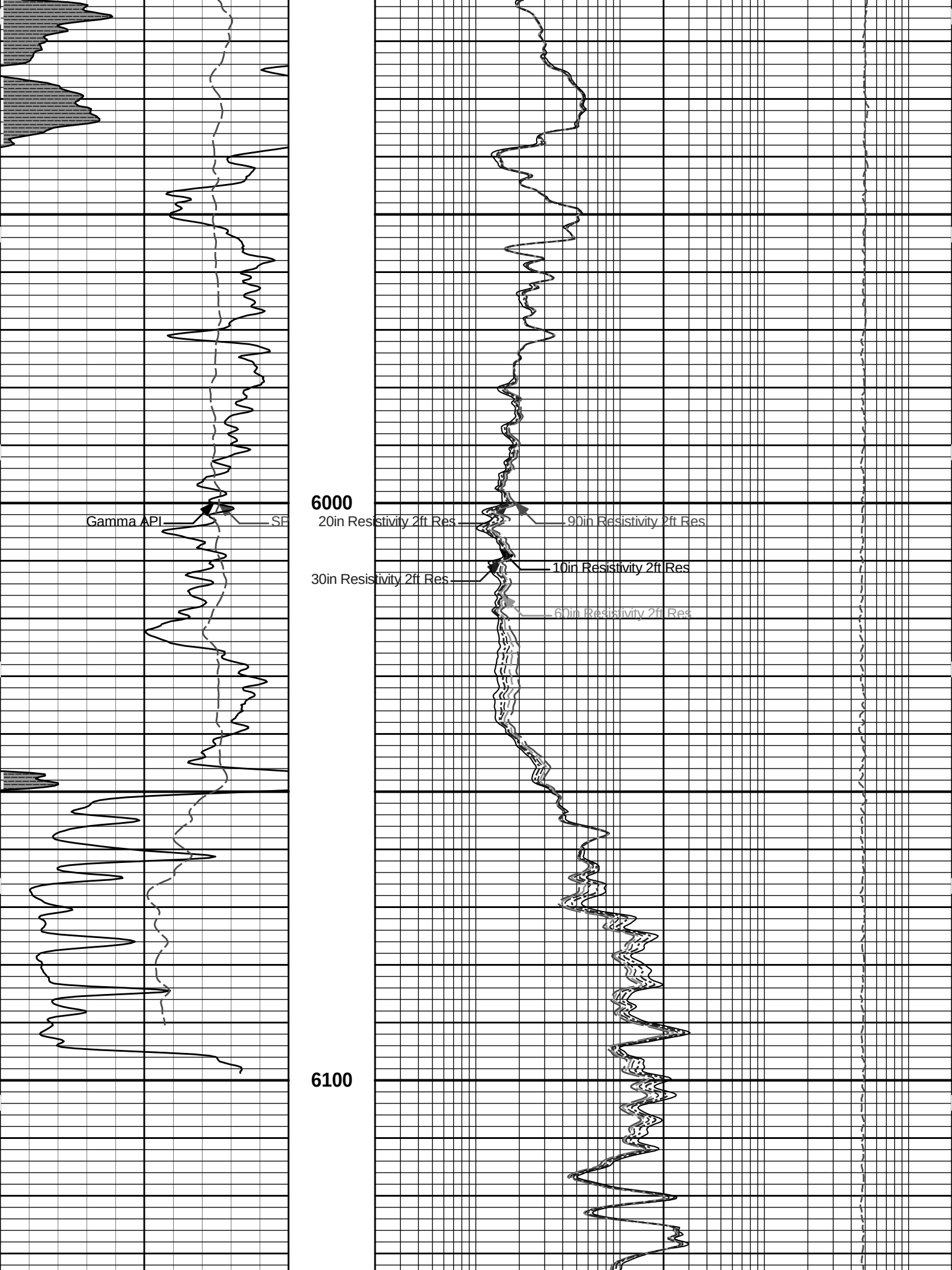
5 INCH MAIN LOG

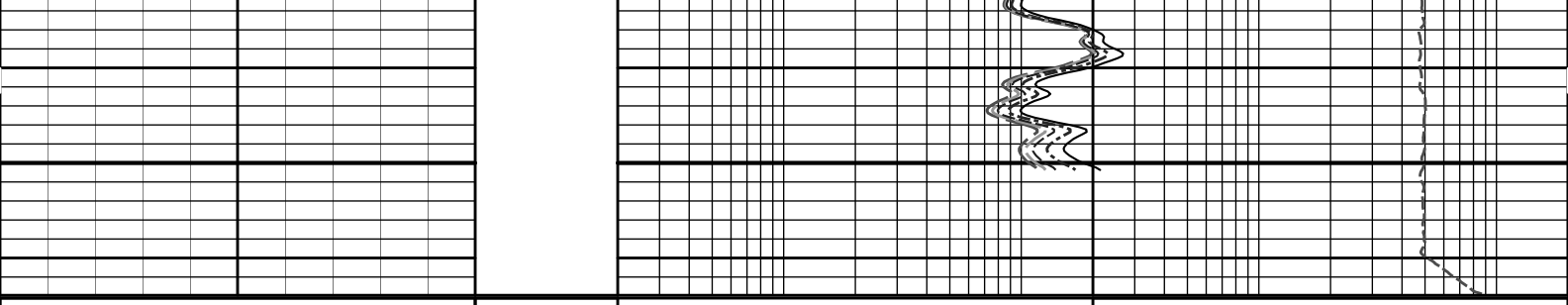
HALLIBURTON

Plot Time: 10-Aug-12 08:04:43
Plot Range: 5800 ft to 6163.92 ft
Data: BROWN_TODD_SWD\Well Based\REPEAT_TWO\
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\ACRT\ACRT_5_repeat_lib

REPEAT SECTION




6000
Gamma API
SP
20in Resistivity 2ft Res
90in Resistivity 2ft Res
10in Resistivity 2ft Res
30in Resistivity 2ft Res
60in Resistivity 2ft Res
6100



SP	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

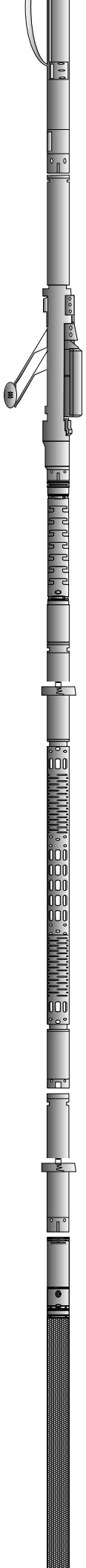
Plot Time: 10-Aug-12 08:04:46
Plot Range: 5800 ft to 6163.92 ft
Data: BROWN_TODD_SWD\Well Based\REPEAT_TWO\
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						75.95 ft
Cable Head-PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	
						74.03 ft
SP Sub-11441709 60.00 lbs		Ø 3.625 in →		← SP @ 72.26 ft	3.74 ft	
						70.30 ft
GTET-10811258 165.00 lbs		Ø 3.625 in →		← GammaRay @ 64.23 ft	8.52 ft	
						61.78 ft
DSN Decentralizer-						



10755066
6.60 lbs

Ø 5.000 in*

DSNT-10755066
174.00 lbs

Ø 3.625 in

9.69 ft

DSN Far @ 54.84 ft

DSN Near @ 54.09 ft

52.09 ft

SDLT-
I066_M85803_P45
360.00 lbs

Ø 4.500 in

10.81 ft

SDLT Pad-45
65.00 lbs

Microlog Pad-
I066_M85803_P45
8.00 lbs

Ø 4.750 in*

Ø 4.750 in*

Microlog @ 44.28 ft

SDL Caliper @ 44.09 ft

SDL @ 44.08 ft

41.28 ft

Flex Joint-
10939592
140.00 lbs

Ø 3.625 in

5.67 ft

35.61 ft

Regal Standoff 6_75-02
20.00 lbs

Ø 6.750 in*

BSAT-10747683
300.00 lbs

Ø 3.625 in

15.77 ft

Sonic Receivers @ 27.09 ft

19.83 ft

ACRt Instrument-
I256
50.00 lbs

Regal Standoff 6_75-01
20.00 lbs

Ø 3.625 in

Ø 6.750 in*

5.03 ft

14.80 ft

Mud Resistivity @ 13.44 ft

ACRt @ 9.46 ft

ACRt Sonde-
I1256_S0784
200.00 lbs

Ø 3.625 in

14.22 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)		Accumulated Length (ft)	Max.Log. Speed (fpm)
CH	Standard OH Cable Head	PROT01	30.00	1.92		74.03	300.00
SP	SP Sub	11441709	60.00	3.74		70.30	300.00
GTET	Gamma Telemetry Tool	10811258	165.00	8.52		61.78	60.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69		52.09	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	*	55.42	300.00
SDLT	Spectral Density Tool	I066_M85803_P45	360.00	10.81		41.28	60.00
MICP	Microlog Pad	I066_M85803_P45	8.00	1.00	*	43.78	60.00
SDLP	Density Insite Pad	45	65.00	2.55	*	43.49	60.00
FLEX	Flex Joint	10939592	140.00	5.67		35.61	300.00
BSAT	Borehole Sonic Array Tool	10747683	300.00	15.77		19.83	60.00
RSOF	Regal Standoff 6.75in	02	20.00	0.52	*	33.69	300.00
ACRt	Array Compensated True Resistivity Instrument Section	I256	50.00	5.03		14.80	300.00
RSOF	Regal Standoff 6.75in	01	20.00	0.52	*	17.02	300.00
ACRt	Array Compensated True Resistivity Sonde Section	I1256_S0784	200.00	14.22		0.58	300.00
CBHD	Cabbage Head	TRK954	10.00	0.58		0.00	300.00
Total			**1,608.60**	**75.95**			

* Not included in Total Length and Length Accumulation.

Data: BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\IDLE **Date: 08-Aug-12 23:38:59**

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 10811258 **Reference Calibration Date:** 29-Jun-12 10:45:01

Engineer: T. HYDE **Calibration Date:** 29-Jun-12 10:47:38

Software Version: WL INSITE R3.6.0 (Build 3) **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	46.1	47.6	api
Background + Calibrator	270.8	279.6	api
Calibrator	224.7	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 10811258 **Reference Calibration Date:** 29-Jun-12 10:47:38

Engineer: JAMES BOLLOM **Calibration Date:** 08-Aug-12 23:34:30

Software Version: WL INSITE R3.6.0 (Build 3) **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	47.6	30.3	api
Background + Calibrator	279.6	264.7	api
Calibrator	232.0	234.4	api

Shop	Field	Difference	Tolerance
232.0	234.4	-2.4	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	**ACRt Sonde - I1256_S0784**	**Reference Calibration Date:**	**07-Jul-12 12:08:04**
Engineer:	**T. HYDE**	**Calibration Date:**	**11-Jul-12 09:38:13**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**
Host Tool Name:	**ACRt Instrument - I256**		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.00	1.05
A2 (50")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.00	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.00	1.05
A4 (17")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.00	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	0.99	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.98	1.05	0.95	0.98	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	-0.61	2	-6	-4.02	-2	-8	-5.17	-2
A2 (50")	-7	-1.85	0	-7	-3.61	0	-7	-4.31	0
A3 (29")	-27	-16.24	-9	-9	-4.70	-3	-7	-3.29	-1
A4 (17")	-180	-98.13	-60	-45	-32.80	-15	-39	-26.77	-13
A5 (10")	N/A	N/A	N/A	-150	-97.06	-50	-80	-48.76	-10
A6 (6")	N/A	N/A	N/A	175	293.49	525	90	155.40	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.88	1.3
36K	1.0	1.20	2.0
72K	1.0	1.54	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

PASS/FAIL SUMMARY

GAIN RANGE CHK	PASS
SONDE OFFSET RANGE CHK	PASS
Tx CURRENT GAIN	PASS
Rmud VERIFICATION	PASS

TOOL OK TO LOG

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-10811258						
Gamma Ray Calibrator	232.0	234.4	----------	-2.4	+/- 9.00	api
ACRt Sonde-I1256_S0784						
Mud Cell	1.00	----------	----------	0.00	----------	ohm-m

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PARAMETERS REPORT

Depth ((ft))	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.300	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	2.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	7.000	in
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	6026.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	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	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GRSO	Gamma Tool Standoff	0.000	in
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	DSNT	DNOK	Process DSN?	Yes	
	DSNT	DEOK	Process DSN EVR?	No	
	DSNT	NLIT	Neutron Lithology	Limestone	
	DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
	DSNT	DNTP	Temperature Correction Type	None	
	DSNT	DPRS	DSN Pressure Correction Type	None	
	DSNT	SHCO	View More Correction Options	No	
	DSNT	UTVD	Use TVD for Gradient Corrections?	No	
	DSNT	LHWT	Logging Horizontal Water Tank?	No	
	SDLT	CLOK	Process Caliper Outputs?	Yes	
	SDLT Pad	DNOK	Process Density?	Yes	
	SDLT Pad	DNOK	Process Density EVR?	No	
	SDLT Pad	QB	Logging Calibration Blocks?	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	
	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 Upr	
	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

BOTTOM

Data: BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\IDLE **Date: 08-Aug-12 23:43:04**

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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	72.25	NO	
SP	Spontaneous Potential	72.25	BLK	1.250
SPR	Raw Spontaneous Potential	72.25	NO	
SPO	Spontaneous Potential Offset	72.25	NO	
	GTET			
TPUL	Tension Pull	64.23	NO	
GR	Natural Gamma Ray API	64.23	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	64.23	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	64.23	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
	DSNT			
TPUL	Tension Pull	53.99	NO	
RNDS	Near Detector Telemetry Counts	54.09	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.84	TRI	0.583
DNTT	DSN Tool Temperature	54.09	NO	
DSNS	DSN Tool Status	53.99	NO	

ERND	Near Detector Telemetry Counts EVR	54.09	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.84	BLK	0.000
ENTM	DSN Tool Temperature EVR	54.09	NO	
	SDLT			
TPUL	Tension Pull	44.09	NO	
PCAL	Pad Caliper	44.09	TRI	0.250
ACAL	Arm Caliper	44.09	TRI	0.250
	BSAT			
TPUL	Tension Pull	27.09	NO	
STAT	Status	27.09	NO	
DLYT	Delay Time	27.09	NO	
SI	Sample Interval	27.09	NO	
TXRX	Raw Telemetry 10 Receivers	27.09	NO	
FRMC	Tool Frame Count	27.09	NO	
GMOD	Gain processing mode	19.83	NO	
	ACRt Sonde			
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000

RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

SDLT Pad

TPUL	Tension Pull	44.08	NO	
NAB	Near Above	43.90	BLK	0.920
NHI	Near Cesium High	43.90	BLK	0.920
NLO	Near Cesium Low	43.90	BLK	0.920
NVA	Near Valley	43.90	BLK	0.920
NBA	Near Barite	43.90	BLK	0.920
NDE	Near Density	43.90	BLK	0.920
NPK	Near Peak	43.90	BLK	0.920
NLI	Near Lithology	43.90	BLK	0.920
NBAU	Near Barite Unfiltered	43.90	BLK	0.250
NLIU	Near Lithology Unfiltered	43.90	BLK	0.250
FAB	Far Above	44.26	BLK	0.250
FHI	Far Cesium High	44.26	BLK	0.250
FLO	Far Cesium Low	44.26	BLK	0.250
FVA	Far Valley	44.26	BLK	0.250
FBA	Far Barite	44.26	BLK	0.250
FDE	Far Density	44.26	BLK	0.250
FPK	Far Peak	44.26	BLK	0.250
FLI	Far Lithology	44.26	BLK	0.250
PTMP	Pad Temperature	44.09	BLK	0.920
NHV	Near Detector High Voltage	43.49	NO	
FHV	Far Detector High Voltage	43.49	NO	
ITMP	Instrument Temperature	43.49	NO	
DDHV	Detector High Voltage	43.49	NO	

Microlog Pad

TPUL	Tension Pull	44.28	NO	
MINV	Microlog Lateral	44.28	BLK	0.750
MNOR	Microlog Normal	44.28	BLK	0.750

Data: BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\IDLE **Date: 08-Aug-12 23:42:37**

COMPANY	**REEDER OPERATING, LLC**		
WELL	**BROWN-TODD 1-7 SWD**		
FIELD			
COUNTY	**COMANCHE**	STATE	**KANSAS**

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

HALLIBURTON

Plot Time: 10-Aug-12 08:04:46
Plot Range: 780 ft to 6151.5 ft
Data: BROWN_TODD_SWD\Well Based\SPLICE_CASING
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\...\ACRT_1_lib

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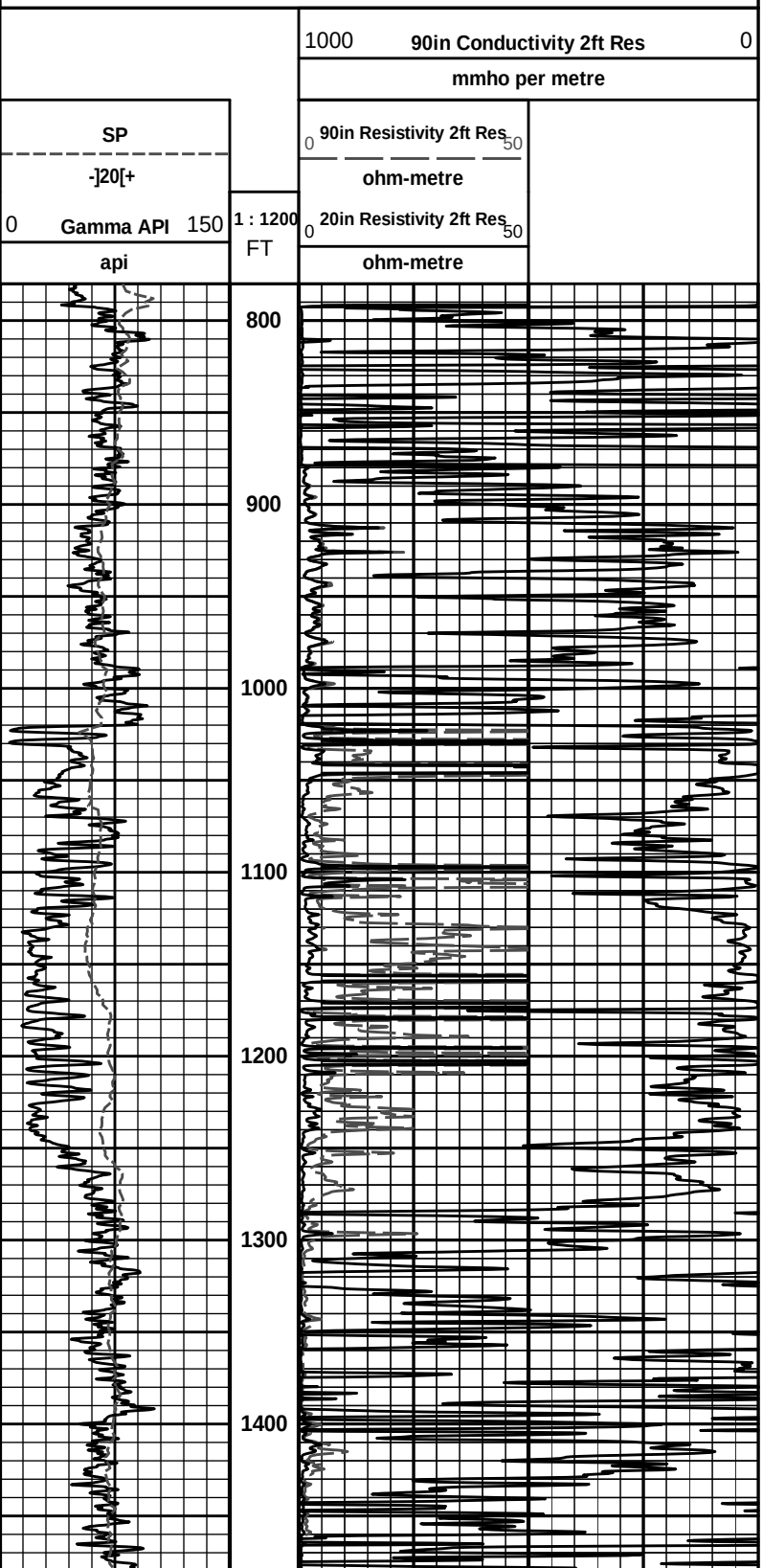

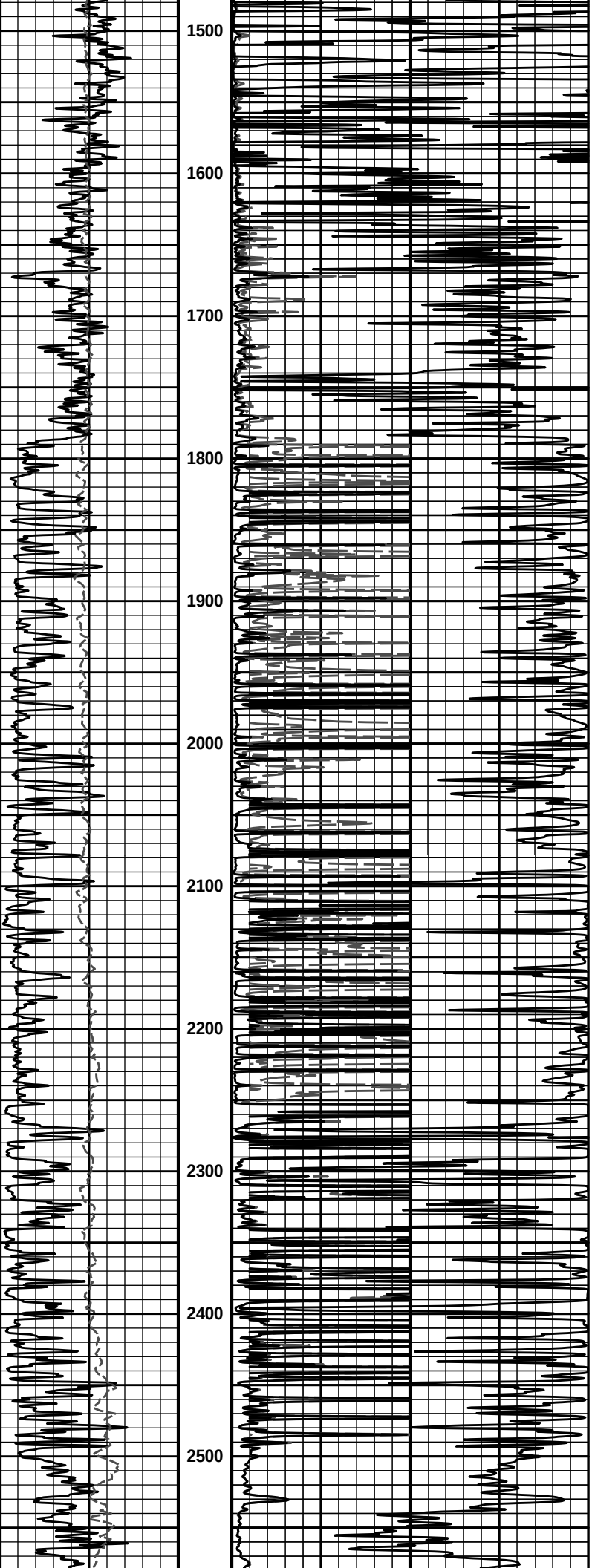
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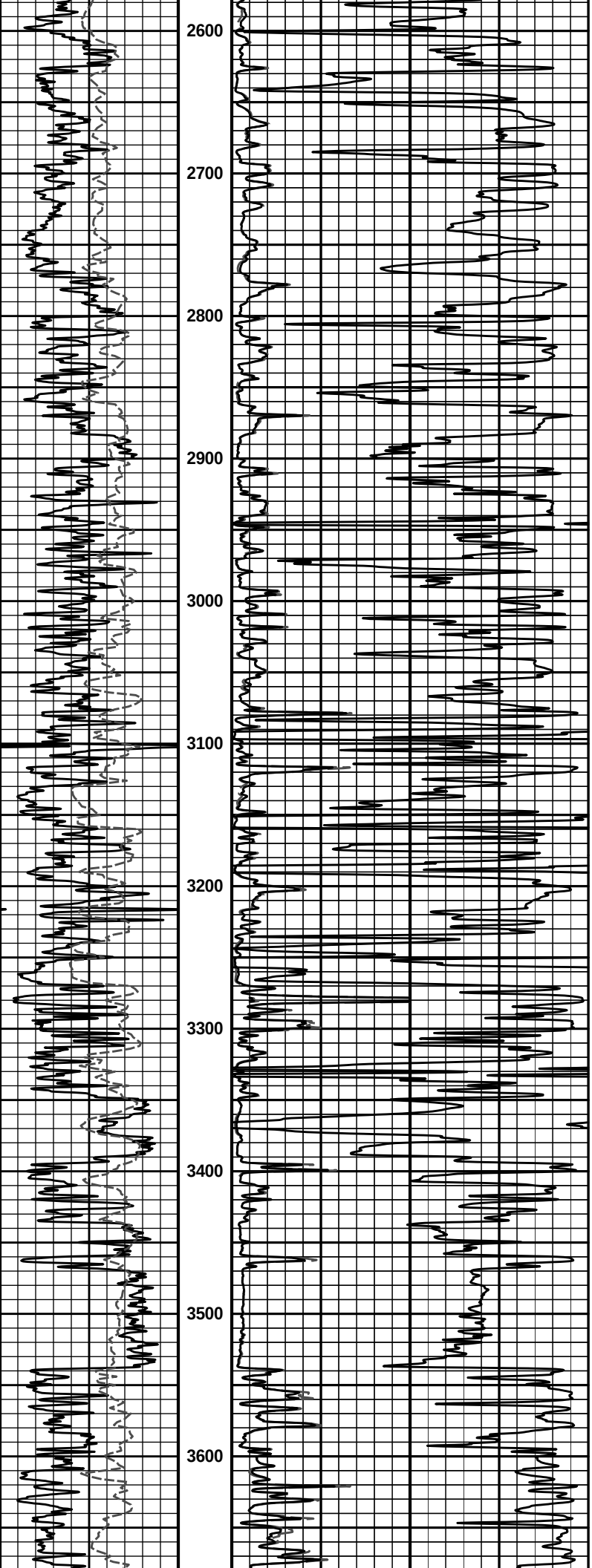
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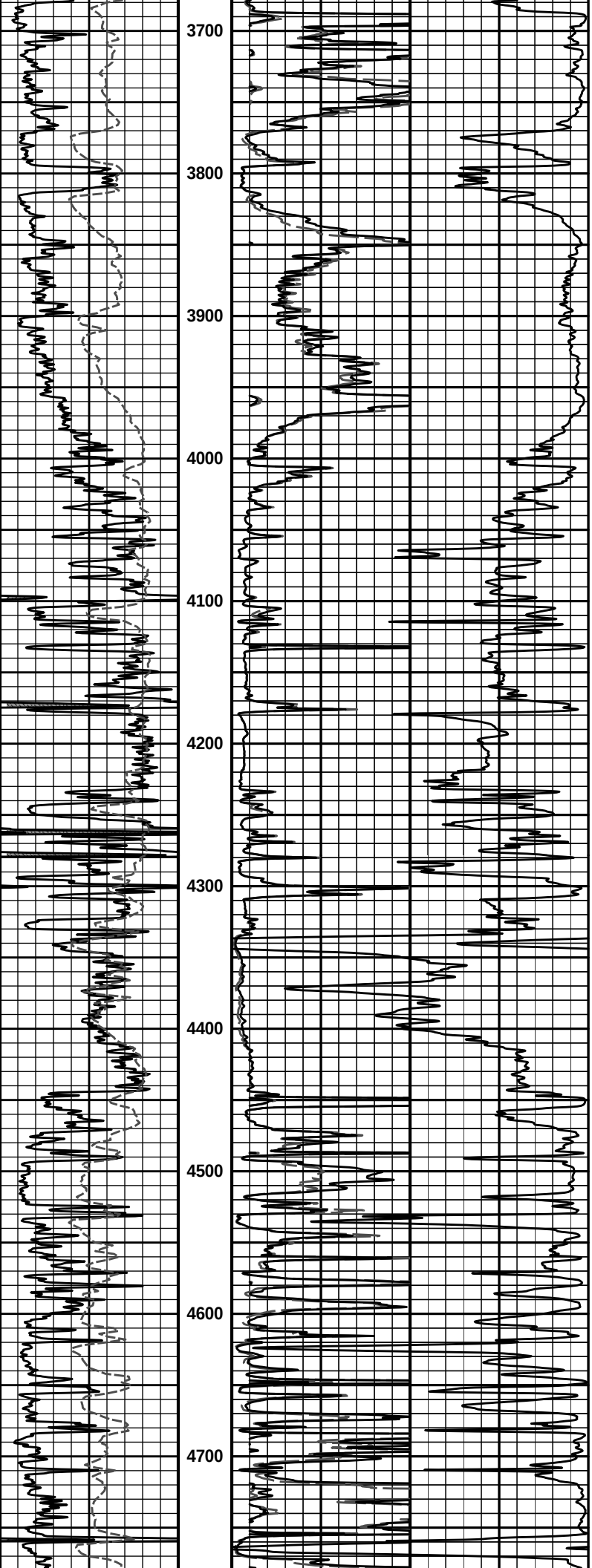
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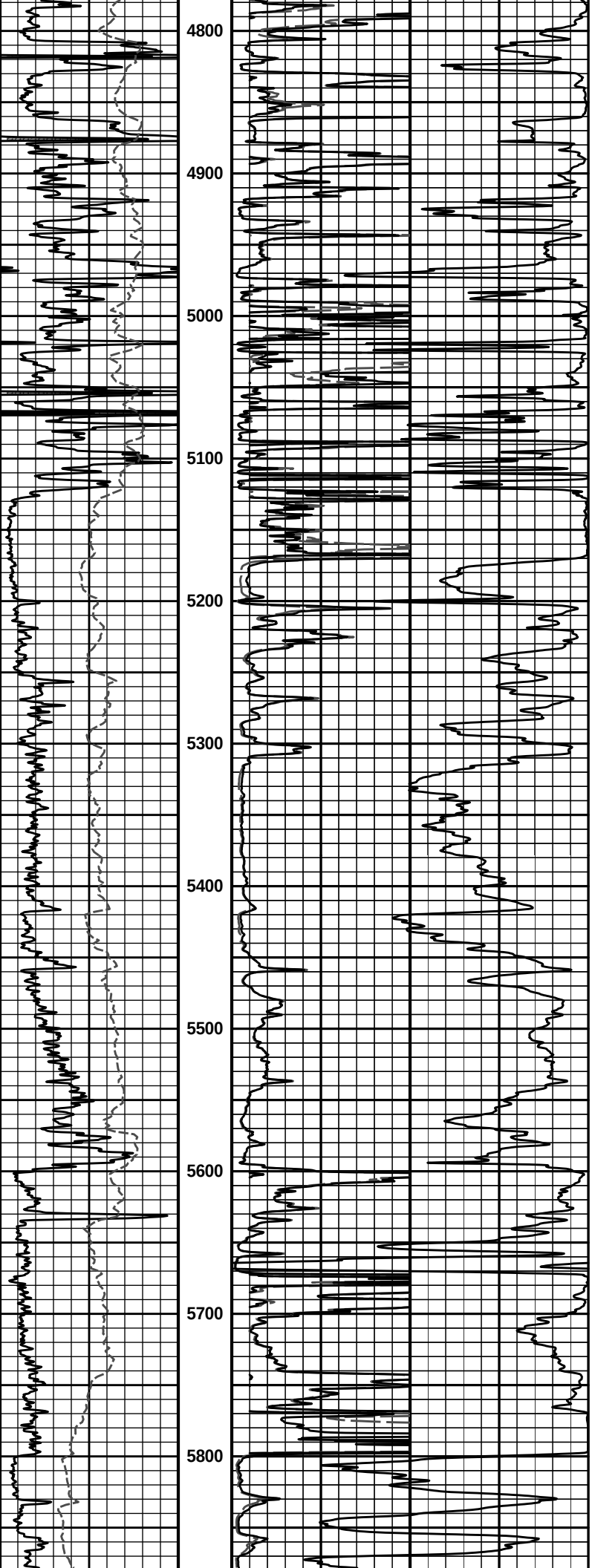
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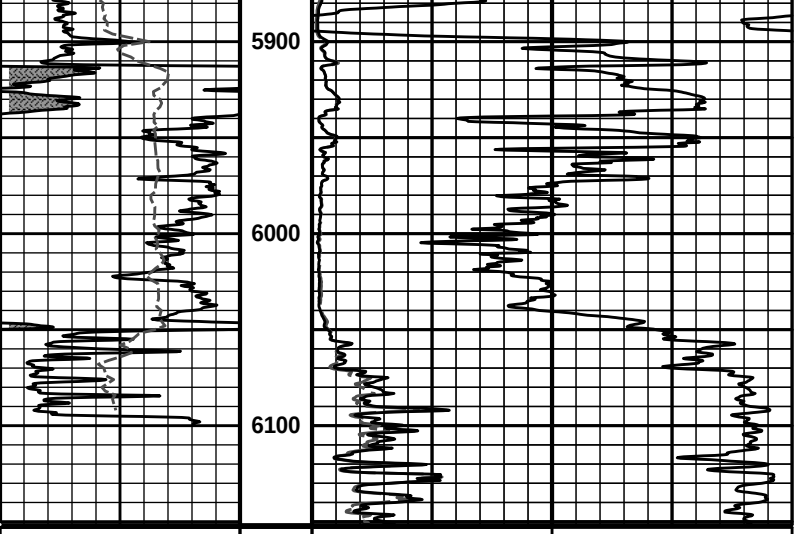

0 Gamma API 150	1 : 1200 FT	0 20in Resistivity 2ft Res 50
api		ohm-metre
SP		0 90in Resistivity 2ft Res 50
-]20[+		ohm-metre
		1000 90in Conductivity 2ft Res 0
		mmho per metre

HALLIBURTON

Plot Time: 10-Aug-12 08:04:51
Plot Range: 780 ft to 6151.5 ft
Data: BROWN_TODD_SWD\Well Based\SPLICE_CASING
Plot File: \\-LOCAL-\BROWN_TODD_SWD\0001 SP-GTET-DSNT-SDLT-FLEX-BSAT-ACRT-CH\...\ACRT_1_lib

1 INCH MAIN LOG

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

Phone: 316-337-6200
Fax: 316-337-6211
http://kcc.ks.gov/

October 01, 2012

Gary Wente
Reeder Operating LLC
4925 GREENVILLE AVE., STE 1400
DALLAS, TX 75206

Re: ACO1
API 15-033-21656-00-00
BROWN-TODD 1 SWD
SE/4 Sec.07-32S-17W
Comanche County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Gary Wente

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 1743	08/11/12

COUNTY	State	COMPANY	CUSTOMER REP
Comanche	Oklahoma	Reeder Operating,LLC	Edward

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Brown Todd SWD	1-7	Intermediate	LOUIS ARNEY

EMP NAME							
LOUIS ARNEY		0					
JASON JONES							
MARCOS QUINTANA							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 138 Pressure _____

Retainer Depth _____ Total Depth 6022

	Called Out	On Location	Job Started	Job Completed
Date	8/11/2012	8/11/2012	8/11/2012	8/11/2012
Time	5:00	12:00	18:54	19:27

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		26#	7"	Surface		5,000
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 3/4"	Surface	6,022	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 20		8.33
Spacer type	/IUD WASI	BBL. 10		8.40
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
8/11	8.0
Total	8.0

Operating Hours

Date	Hours
8/11	1.3
Total	1.3

Description of Job

Intermediate

Pressures

MAX 5,000 PSI AVG. 500

Average Rates in BPM

MAX 8 BPM AVG 6

Cement Left in Pipe

Feet 90' Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	460	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 1 lb/sk Phenoseal - 1/4#/sk	6.77	1.44	13.60
2	0	0	0	0.00	0.00	0.00
3	0	0	0	0.00	0.00	0.00

Summary

Preflush	20	Type:	H2O	Preflush:	BBl	10.00	Type: Mud Wash
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 233
		Actual TOC		Calc. TOC:		3141'	Actual Disp. 229.00
Average		Bump Plug PSI:	1,700	Final Circ.	PSI:	1,100	Disp:Bbl
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	118.0	
				Total Volume	BBl	357.00	

CUSTOMER REPRESENTATIVE _____

SIGNATURE

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK1712	08/02/12

COUNTY	State	COMPANY	CUSTOMER REP
COMANCHE	KANSAS	REEDER ENERGY	EDWARD

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
BROWN TODD SWD	1-7	Surface	Johnny Breeze

EMP NAME							
Johnny Breeze		0					
Daniel Wells							
Jared Green							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. _____ Pressure _____

Retainer Depth _____ Total Depth 800'

	Called Out	On Location	Job Started	Job Completed
Date	8/1/2012	8/2/2012	8/2/2012	8/2/2012
Time	2200	0300	0918	1100

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	1	IR
HEAD	1	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		36#	9 5/8	Surface	834	1,500
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			12 1/4	Surface	800'	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density	9		Lb/Gal
Disp. Fluid	Fresh Water	Density	8.33		Lb/Gal
Spacer type	mud wash	BBL.	20		8.40
Spacer type	H2O	BBL.	10		8.33
Acid Type		Gal.		%	
Acid Type		Gal.		%	
Surfactant		Gal.		In	
NE Agent		Gal.		In	
Fluid Loss		Gal/Lb		In	
Gelling Agent		Gal/Lb		In	
Fric. Red.		Gal/Lb		In	
MISC.		Gal/Lb		In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
8/2	8.0
Total	8.0

Operating Hours

Date	Hours
8/2	4.0
Total	4.0

Description of Job

Surface

Pressures

MAX 5,000 PSI AVG. 200

Average Rates in BPM

MAX 8 BPM AVG 6

Cement Left in Pipe

Feet 44 Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	450	CLASS C	1/4 pps CELLOFLAKE	6.32	1.32	14.80
2						
3	0	0	0	0.00	0.00	0.00

Summary

Preflush		Type:		Preflush:	BBl	20.00	Type: H2O
Breakdown		MAXIMUM	1,500	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	25	Calc.Disp Bbl 61
		Actual TOC	Surface	Calc. TOC:		Surface	Actual Disp. 61.07
Average		Bump Plug PSI:	920	Final Circ.	PSI:	370	Disp:Bbl
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	105.8	
				Total Volume	BBl	186.86	

CUSTOMER REPRESENTATIVE _____ SIGNATURE

Job Data Sheet

O-Tex Pumping, LLC

COMPANY		PROJECT NUMBER	AFE/WORK ORDER	DATE
REEDER ENERGY		SOK1712		8/1/2012
CONTRACTOR	Owner		LEGAL DESCRIPTION	API
DUKE RIG #20	Same			15-033-21656-00-00
LEASE & WELL #		COUNTY	STATE	MILEAGE
BROWN TODD 1-7 SWD		COMANCHE	KANSAS	100

DIRECTIONS

F/ NORTH OF COLWATER @ 183N & 160E GO EAST 6 MI, TURN SOUTH 1 MI, 1 MI EAST, NORTH INTO!

Pumping Services

☑ Surface ☐ Intermediate ☐ Long String ☐ Plug Back
☐ Squeeze ☐ Acid ☐ PTA ☐ Other ( ) H2S

Casing Size	Casing Weight	Thread	Tbng/DP Size	Thread	Plug. Cont.	Swage	Top Plug	Bottom Plug	% Excess
9 5/8	36#	STC			YES	YES	YES	NO	100%

Number and Type Units	Casing Depth	Hole Depth	Hole Size
Pump Truck & Bulk Materials	800'	800'	12 1/4

Remarks	Est. BHST	KOP	Depth-TVD	Mud Weight/Type
			800'	9.0ppg WBM

Materials

LEAD	# of Sacks: 450	Type: CLASS C		Additives: 1/4 pps CELLOFLAKE
H2O TO MIX	Weight PPG: 14.80	Yield Ft3/Sk: 1.32	Water Gal/Sk: 6.32	
TAIL	# of Sacks	Type		Additives
H2O TO MIX	Weight PPG	Yield Ft3/Sk	Water Gal/Sk	
	# of Sacks	Type		Additives
	Weight PPG	Yield Ft3/Sk	Water Gal/Sk	
	ACID	Type		Additives
	Inhibitor	Surfactant	clay cont.	
Spacer or Flush	Quantity: 20bbls	Type: H2O		Additives
Spacer or Flush	Quantity	Type		Additives
Other	Quantity	Type		Additives

Crew Called	Cementer	Pumper	Bulky	Bulky	Bulky

Special Request

Sales Items

Casing Size	Casing Weight	Thread	
Guide Shoe	Float Shoe	Float Collar	Insert Float Valve
Centralizers - Number	Size	Type	
Wall Cleaners - Number	Type	MSC (DV Tool)	MSC Plug Set
Limit Clamps	Thread lock	Other	
Remarks			

Customer Rep.	Cell Phone	Office Phone	Fax	Time of Call	
EDWARD	832-426-6227				
Call Taken By				Date Ready	Time Ready
ROGER YELLOWWOLF				8/1/12	
Crew Called				Time	

JOB SUMMARY

PROJECT NUMBER	TICKET DATE
SOK 1743	08/11/12

COUNTY	State	COMPANY	CUSTOMER REP
Comanche	Oklahoma	Reeder Operating,LLC	Edward

LEASE NAME	Well No.	JOB TYPE	EMPLOYEE NAME
Brown Todd SWD	1-7	Intermediate	LOUIS ARNEY

EMP NAME							
LOUIS ARNEY		0					
JASON JONES							
MARCOS QUINTANA							
0.00							

Form. Name _____ Type: _____

Packer Type _____ Set At 0

Bottom Hole Temp. 138 Pressure _____

Retainer Depth _____ Total Depth 6022

	Called Out	On Location	Job Started	Job Completed
Date	8/11/2012	8/11/2012	8/11/2012	8/11/2012
Time	5:00	12:00	18:54	19:27

Tools and Accessories

Type and Size	Qty	Make
Auto Fill Tube	0	IR
Insert Float Val	0	IR
Centralizers	0	IR
Top Plug	0	IR
HEAD	0	IR
Limit clamp	0	IR
Weld-A	0	IR
Texas Pattern Guide Shoe	0	IR
Cement Basket	0	IR

Well Data

	New/Used	Weight	Size Grade	From	To	Max. Allow
Casing		26#	7"	Surface		5,000
Liner						
Liner						
Tubing			0			
Drill Pipe						
Open Hole			8 3/4"	Surface	6,022	Shots/Ft.
Perforations						
Perforations						
Perforations						

Materials

Mud Type	WBM	Density 9	Lb/Gal	
Disp. Fluid	Fresh Water	Density 8.33	Lb/Gal	
Spacer type	resh Wate	BBL. 20		8.33
Spacer type	/IUD WASI	BBL. 10		8.40
Acid Type		Gal.	%	
Acid Type		Gal.	%	
Surfactant		Gal.	In	
NE Agent		Gal.	In	
Fluid Loss		Gal/Lb	In	
Gelling Agent		Gal/Lb	In	
Fric. Red.		Gal/Lb	In	
MISC.		Gal/Lb	In	

Perfpac Balls _____ Qty. _____

Other _____

Other _____

Other _____

Other _____

Other _____

Hours On Location

Date	Hours
8/11	8.0
Total	8.0

Operating Hours

Date	Hours
8/11	1.3
Total	1.3

Description of Job

Intermediate

Pressures

MAX 5,000 PSI AVG. 500

Average Rates in BPM

MAX 8 BPM AVG 6

Cement Left in Pipe

Feet 90' Reason SHOE JOINT

Cement Data

Stage	Sacks	Cement	Additives	W/Rq.	Yield	Lbs/Gal
1	460	50/50 POZ PREMIUM	4% Gel - 0.4% C-12 - 0.1% C-37 - 0.5% C-41P - 1 lb/sk Phenoseal - 1/4#/sk	6.77	1.44	13.60
2	0	0	0	0.00	0.00	0.00
3	0	0	0	0.00	0.00	0.00

Summary

Preflush	20	Type:	H2O	Preflush:	BBl	10.00	Type: Mud Wash
Breakdown		MAXIMUM	5,000 PSI	Load & Bkdn:	Gal - BBl	N/A	Pad:Bbl -Gal N/A
		Lost Returns-N	NO/FULL	Excess /Return	BBl	N/A	Calc.Disp Bbl 233
		Actual TOC		Calc. TOC:		3141'	Actual Disp. 229.00
Average		Bump Plug PSI:	1,700	Final Circ.	PSI:	1,100	Disp:Bbl
ISIP	5 Min.	10 Min	15 Min	Cement Slurry:	BBl	118.0	
				Total Volume	BBl	357.00	

CUSTOMER REPRESENTATIVE _____

SIGNATURE