HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY **SANDRIDGE ENERGY**

WELL **KYLIE ROSE SWD 3305 1-28**

FIELD **UNKNOWN**

COUNTY **HARPER** STATE **KANSAS**

COMPANY	SANDRIDGE ENERGY
WELL	KYLIE ROSE SWD 3305 1-28
FIELD	UNKNOWN
COUNTY	HARPER
STATE	KANSAS

API No. 15-077-21870

Location 250' FNL 2398' FWL
LAT 37.15° N LONG 97.86° W

Sect. 28 Twp. 33S Rge. 5W

Other Services:
MICRO
DSNT/SDLT
WSTT
MRIL

Permanent Datum	GL	Elev. 1305.0 ft	Elev.: K.B. 1321.0 ft
Log measured from	KB	, 16.0 ft above perm. Datum	D.F. 1319.0 ft
Drilling measured from	KB		G.L. 1305.0 ft

Date		15-Aug-12					
Run No.		ONE					
Depth - Driller		5300.00 ft					
Depth - Logger		5280.0 ft					
Bottom - Logged Interval		5270.0 ft					
Top - Logged Interval		587.0 ft					
Casing - Driller		9.625 in	@ 570.0 ft	@		@	
Casing - Logger		587.0 ft					
Bit Size		8.750 in		@		@	
Type Fluid in Hole		WATER BASED MUD					
Density	Viscosity	9.1 ppg	51.00 s/qt				
PH	Fluid Loss	8.50 pH	6.5 cptm				
Source of Sample		FLOW LINE					
Rm @ Meas. Temperature		0.480 ohmm	@ 75.00 degF	@		@	
Rmf @ Meas. Temperature		0.39 ohmm	@ 75.00 degF	@		@	
Rmc @ Meas. Temperature		0.570 ohmm	@ 75.00 degF	@		@	
Source Rmf	Rmc	MEASURED	MEASURED				
Rm @ BHT		0.31 ohmm	@ 118.0 degF	@		@	
Time Since Circulation		8.0 hr					
Time on Bottom		15-Aug-12 13:03					
Max. Rec. Temperature		118.0 degF	@ 5280.0 ft	@		@	
Equipment	Location	10546696	LIBERAL				
Recorded By		T. HYDE					
Witnessed By		M. BRITO					

Fold here

Service Ticket No.: 9744232 API Serial No.: 15-077-21870 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	@	ONE @	N/A	CENT.	N/A
Rmf @ Meas. Temp.	@	ACRT @			
Rmc @ Meas. Temp.	@	I5059_S8385 @			
Source Rmf / Rmc					
Rm @ BHT	@	@			
Rmf @ BHT	@	@			
Rmc @ BHT	@	@			

EQUIPMENT DATA

	GAMMA	ACOUSTIC	DENSITY	NEUTRON
Run No.	ONE			
Serial No.	11048627			
Model No.	GTET			
Diameter	3.625"			
Detector Model No.	T-102	Spacing		
Type	SCINT			
Length	8"	LSA [Y/N]		
Distance to Source	10'	FWDA [Y/N]		

LOGGING DATA

	Run No.	Serial No.	Model No.	Diameter	Log Type	Source Type	Serial No.	Strength
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	5280	587	REC	0	150									

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@

Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 7 INCH CASING

CHLORIDES REPORTED AT 8000 MG/L

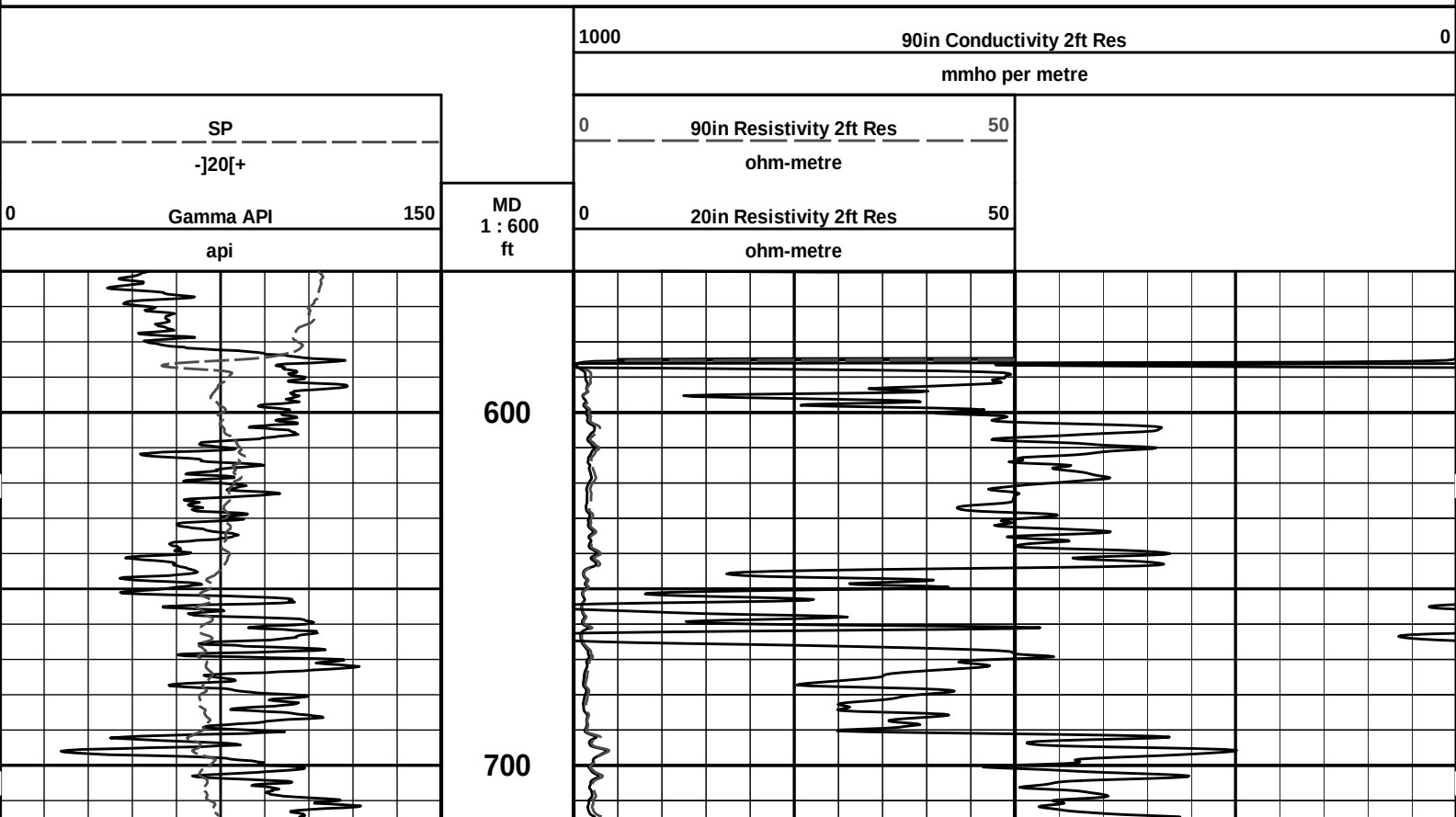
TODAY'S CREW V. JAIME K. KING

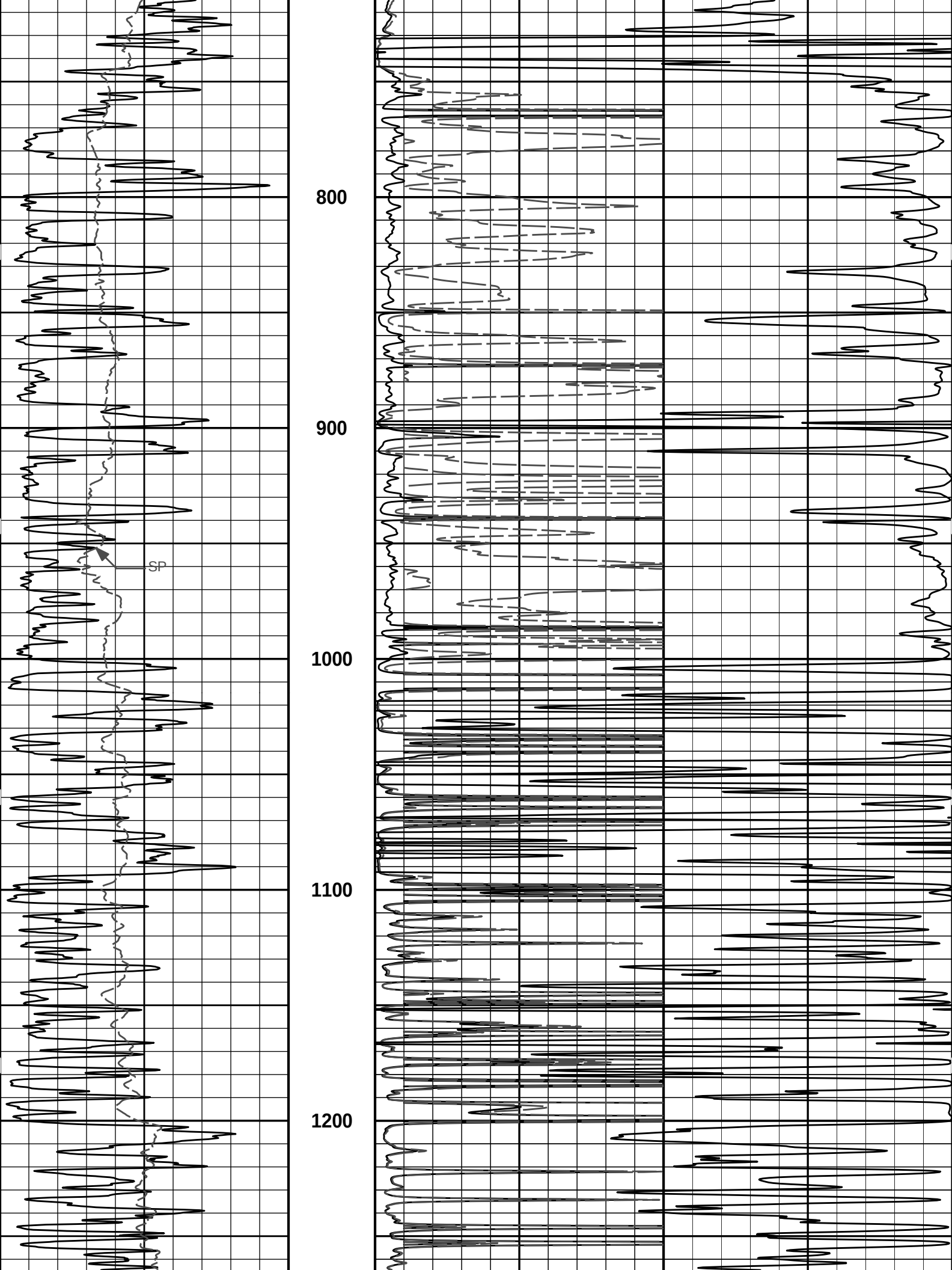
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KANSAS 620-624-8123

HALLIBURTON

Plot Time: 15-Aug-12 15:19:07
Plot Range: 560 ft to 5279.25 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004
Plot File: \\-LOCAL-\ACRT\ACRT_2_lib

2 INCH MAIN LOG

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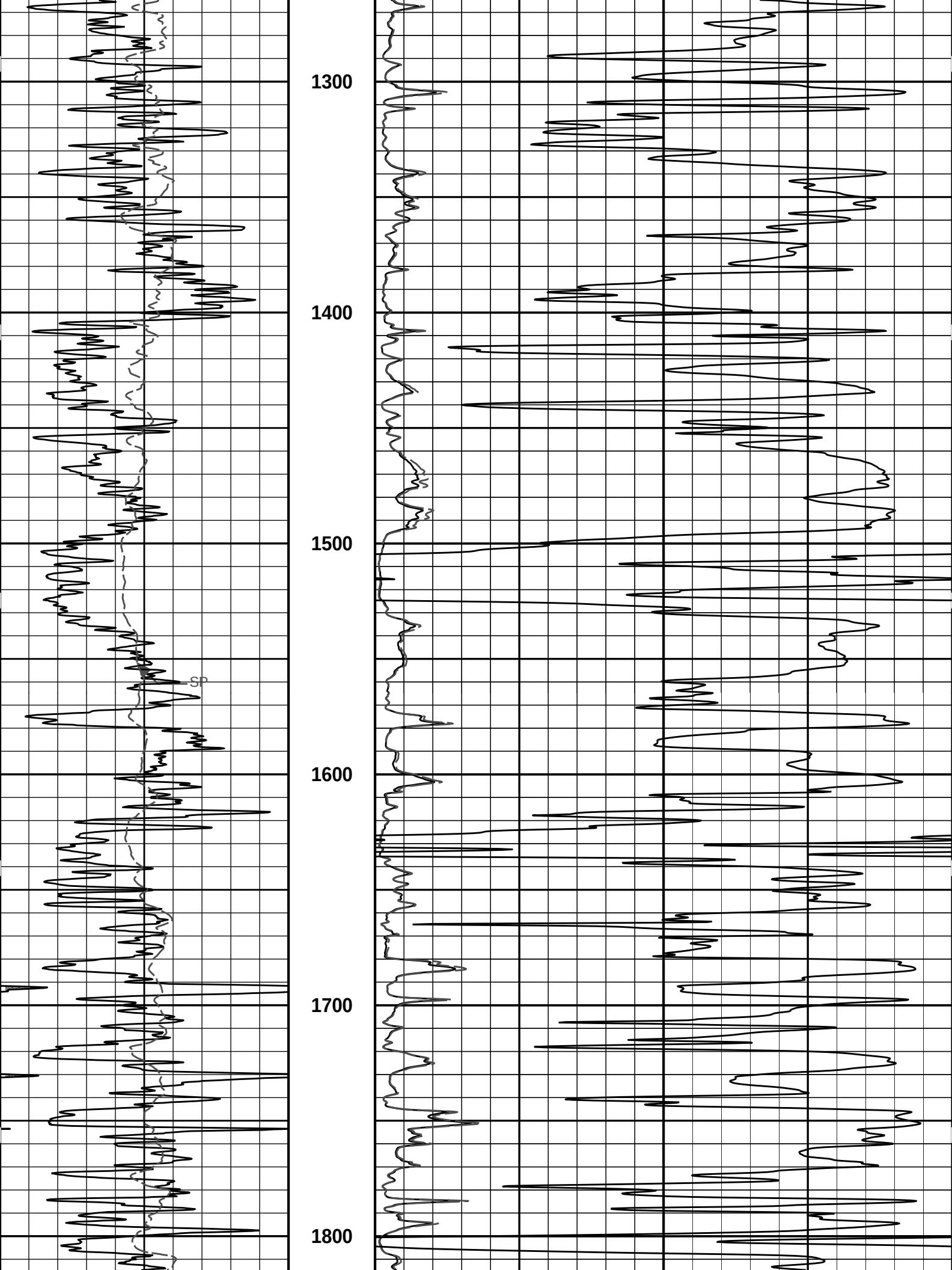
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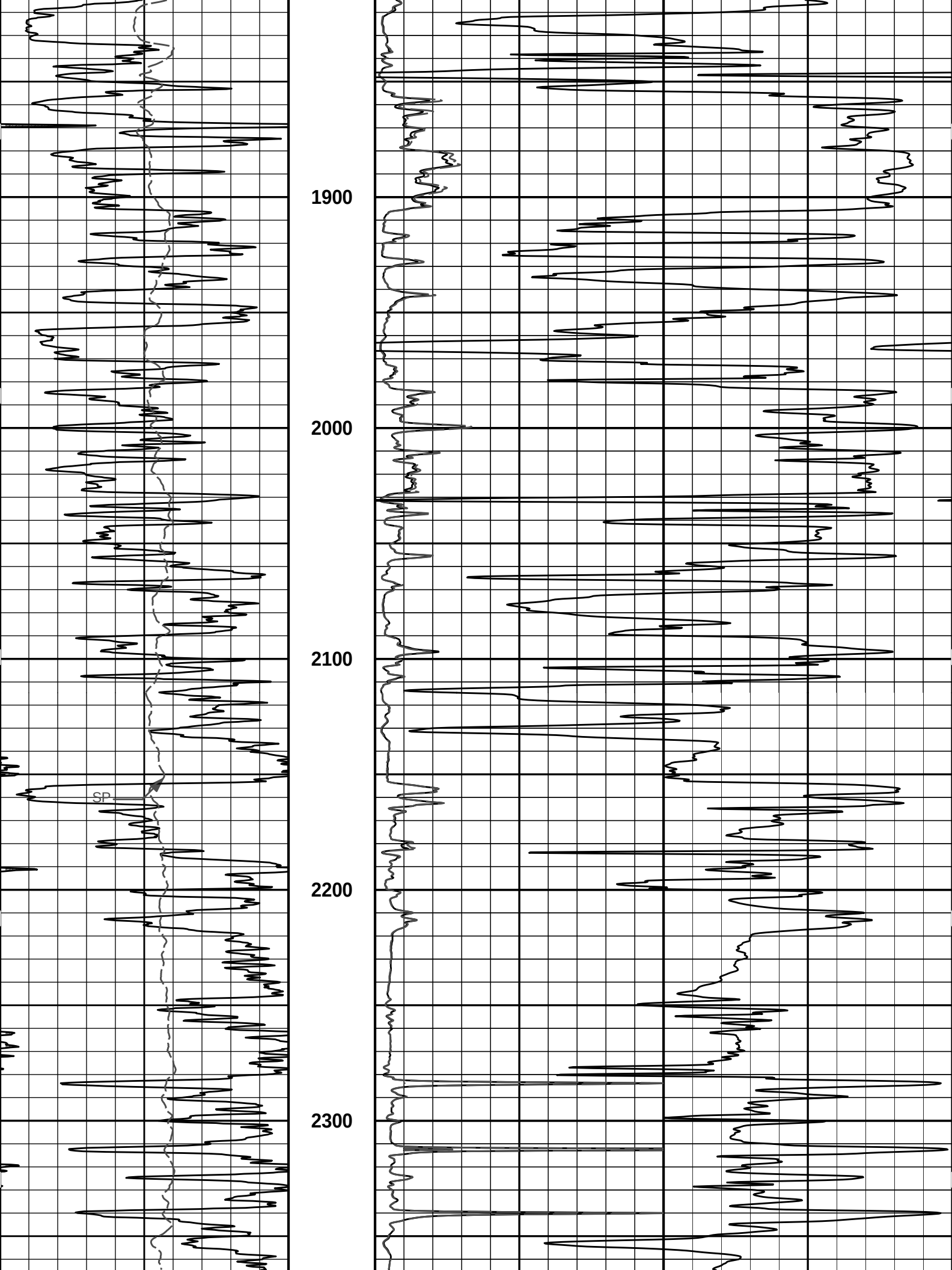
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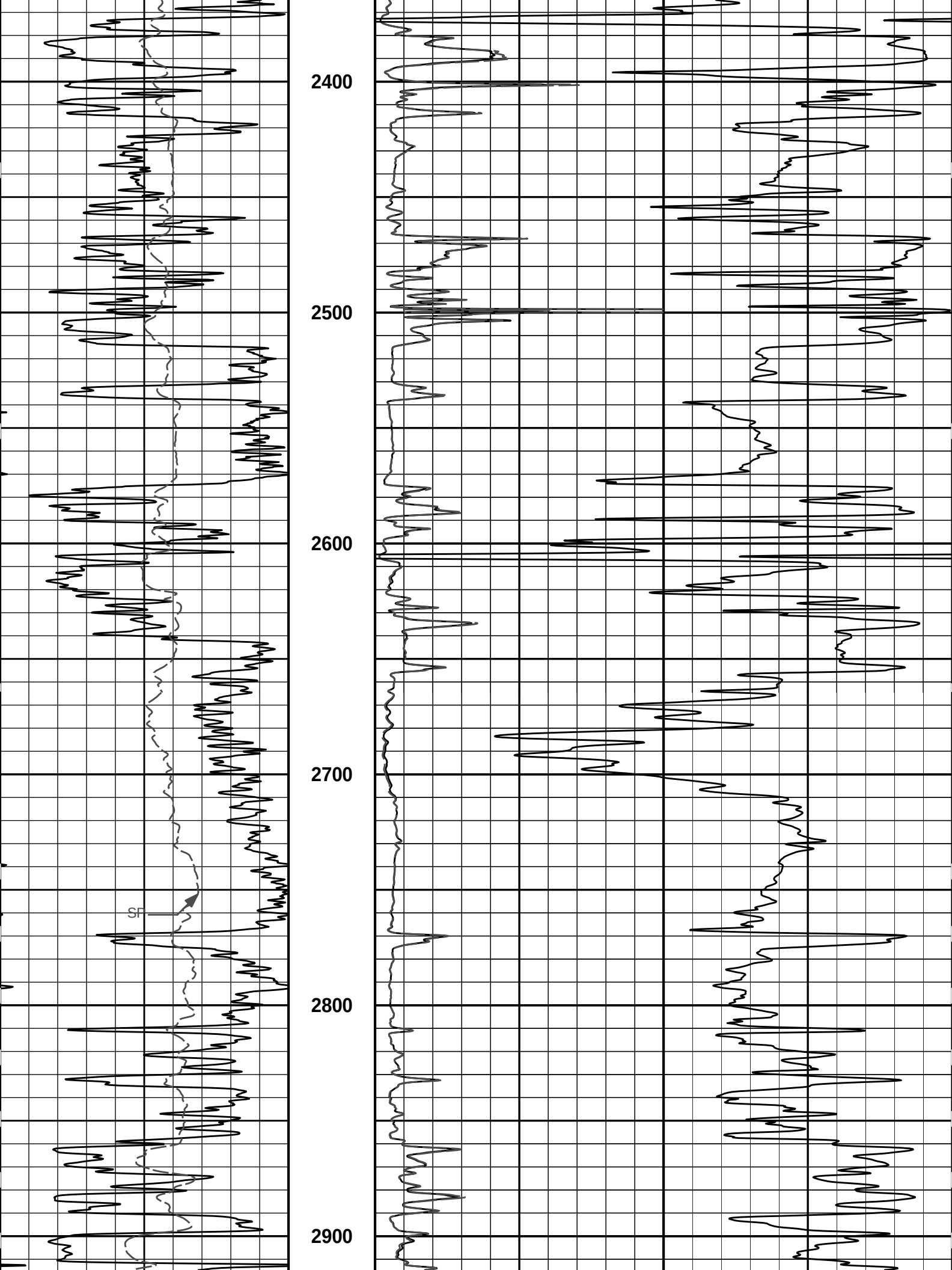
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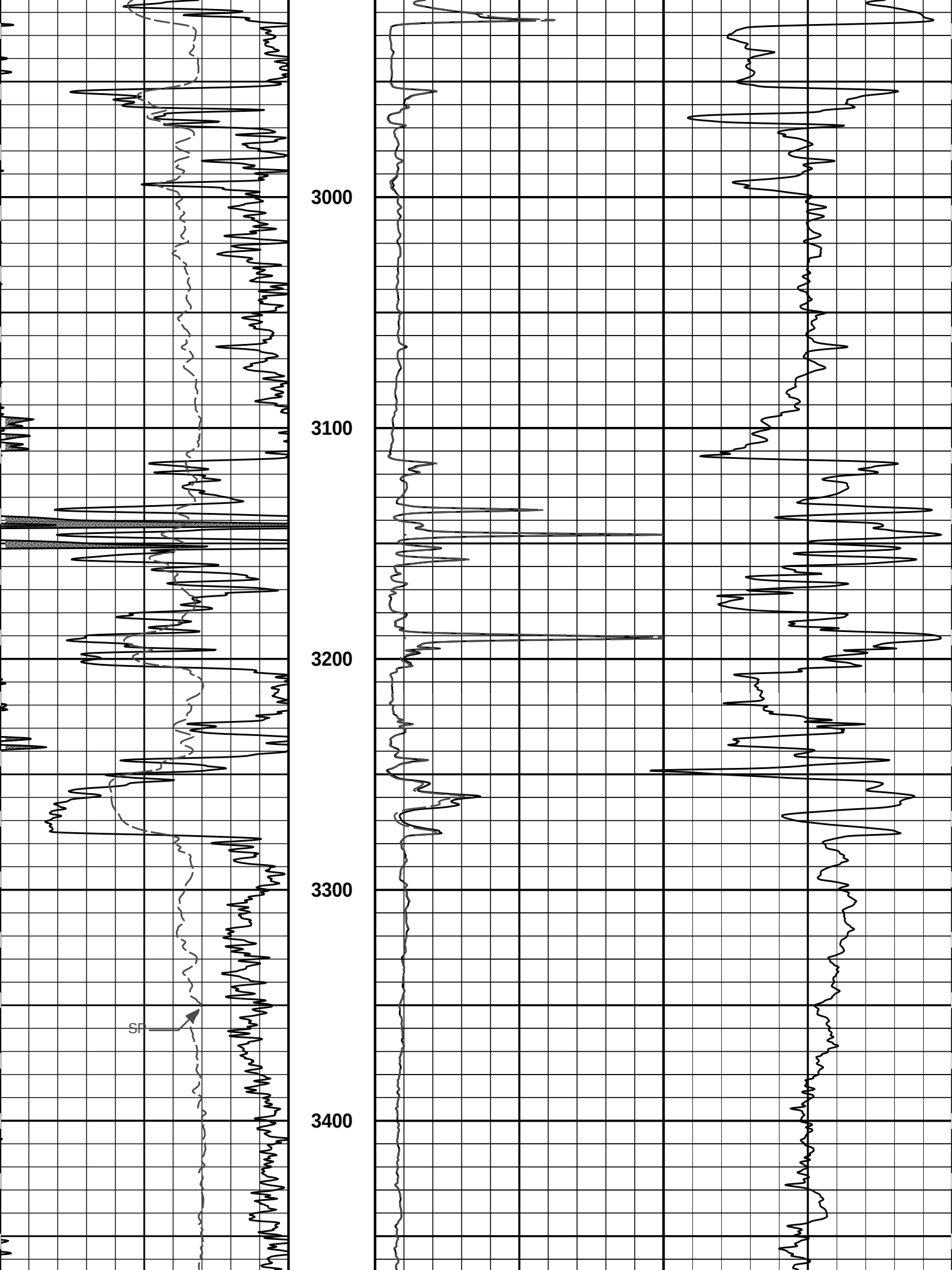
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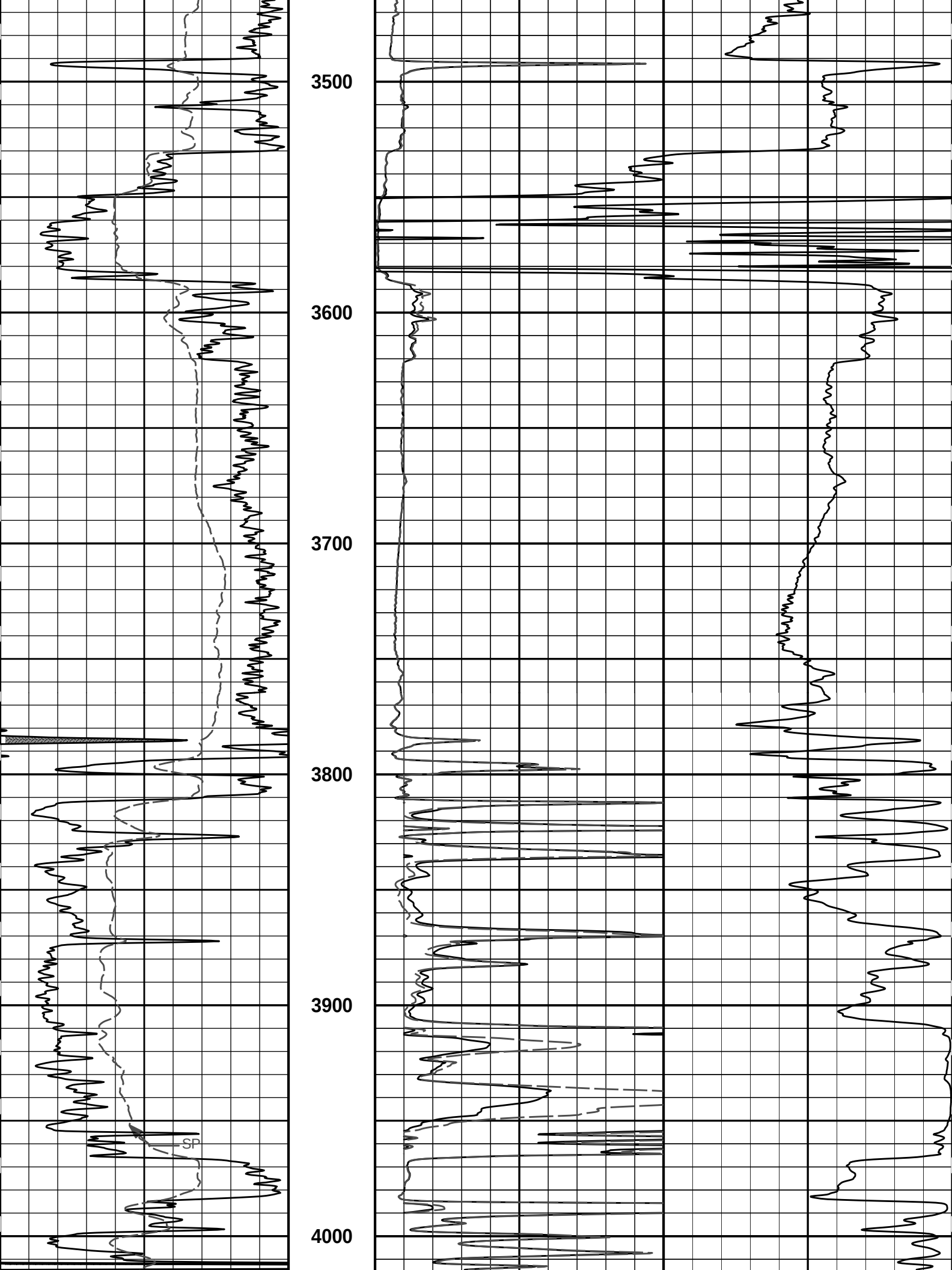
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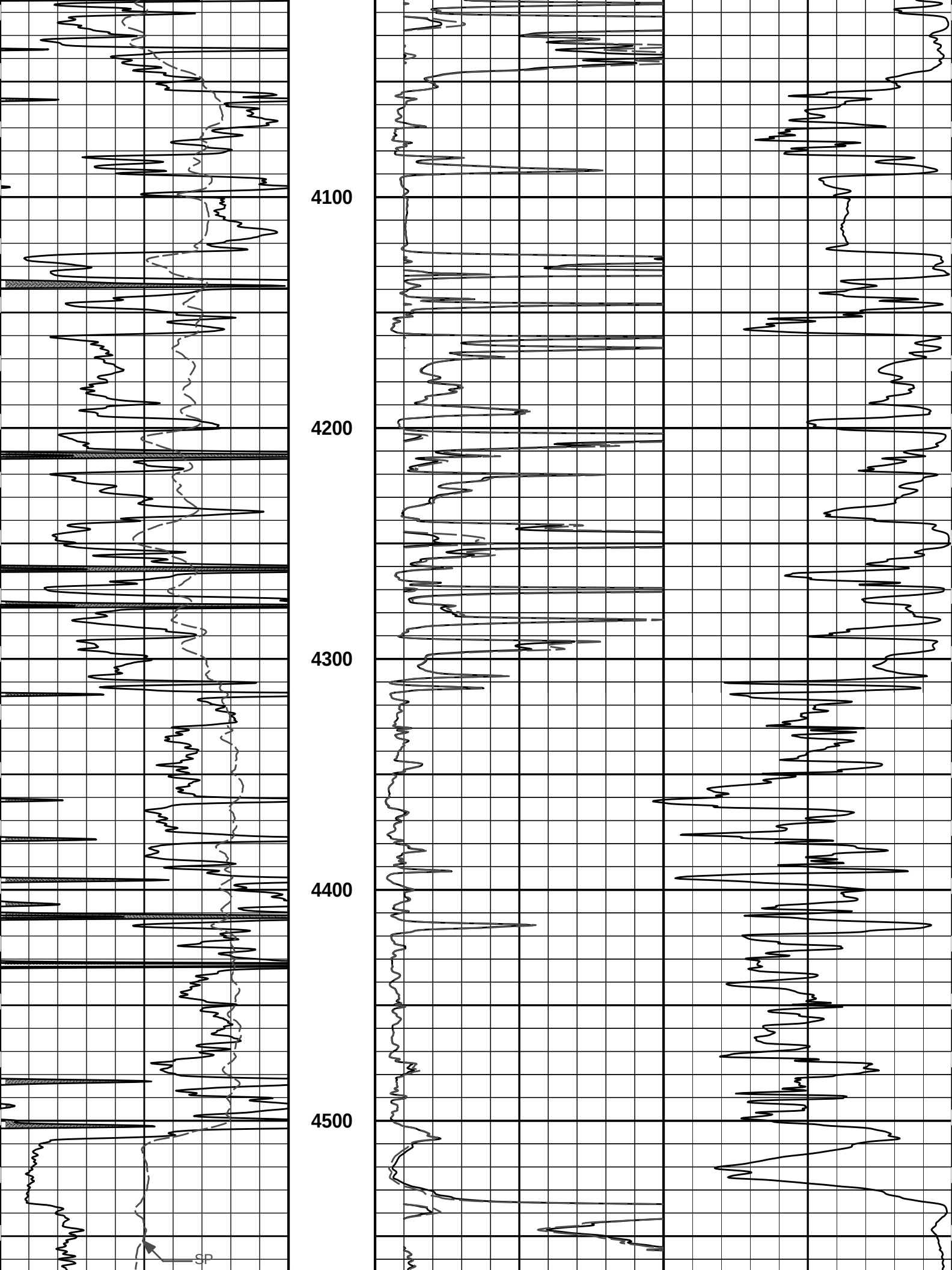
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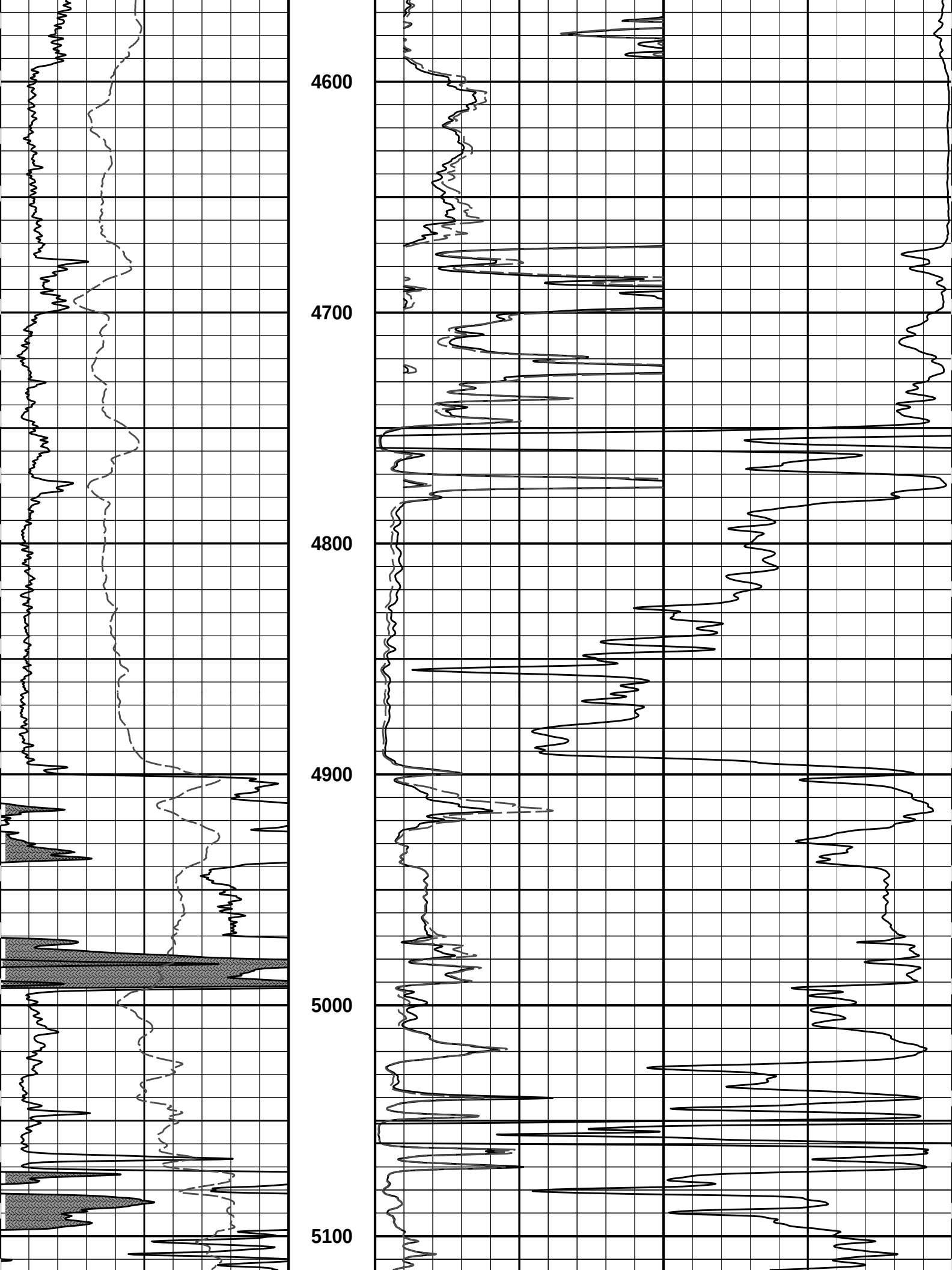
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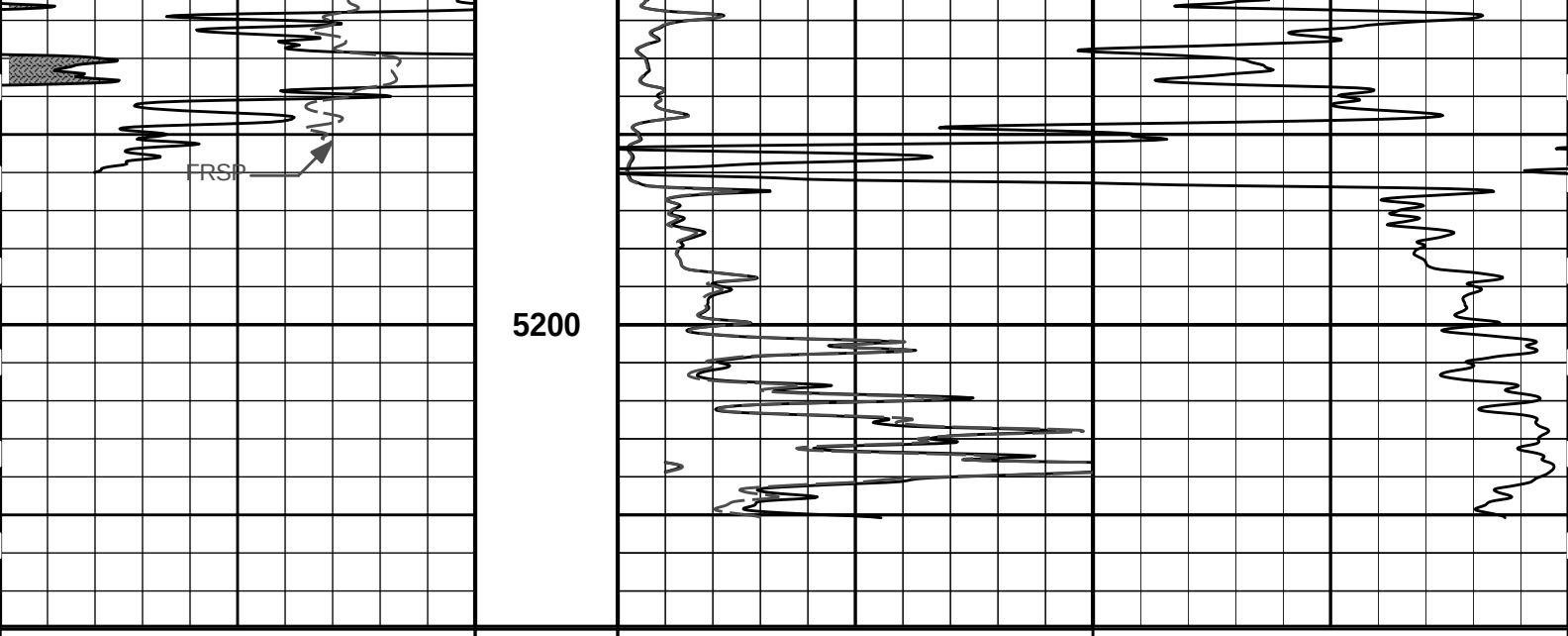


0 Gamma API 150	MD 1 : 600 ft	0 20in Resistivity 2ft Res 50
api		ohm-metre
SP		0 90in Resistivity 2ft Res 50
-]20[+		ohm-metre
		1000 90in Conductivity 2ft Res 0
		mmho per metre

HALLIBURTON

Plot Time: 15-Aug-12 15:19:10
Plot Range: 560 ft to 5279.25 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004\
Plot File: \\-LOCAL-\ACRT\ACRT_2_lib

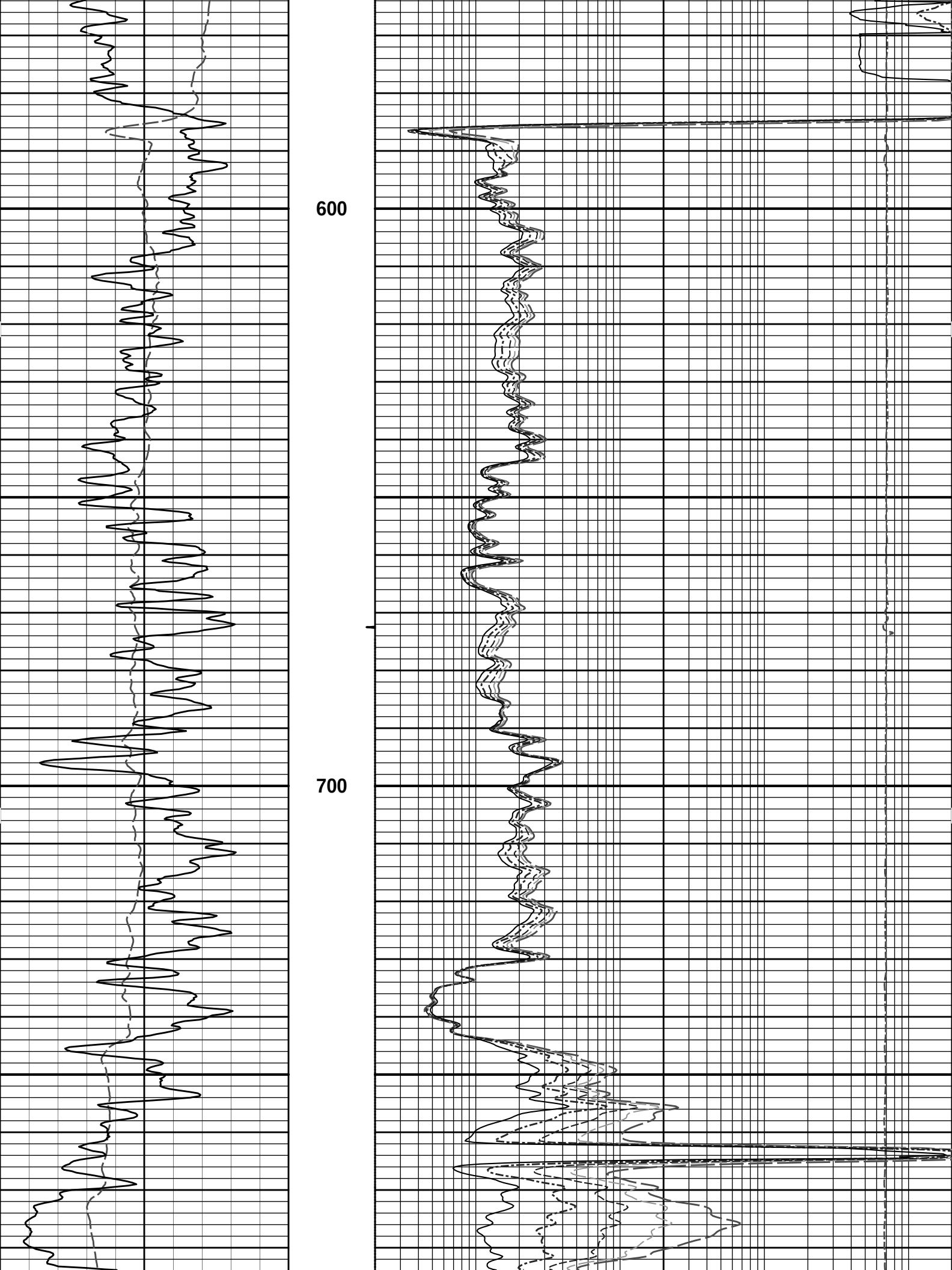
2 INCH MAIN LOG

HALLIBURTON

Plot Time: 15-Aug-12 15:19:11
Plot Range: 560 ft to 5279.25 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004\
Plot File: \\-LOCAL-\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
		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
api		ohmm
SP	MD 1 : 240 ft	10K Tension 0
-]20[+		pounds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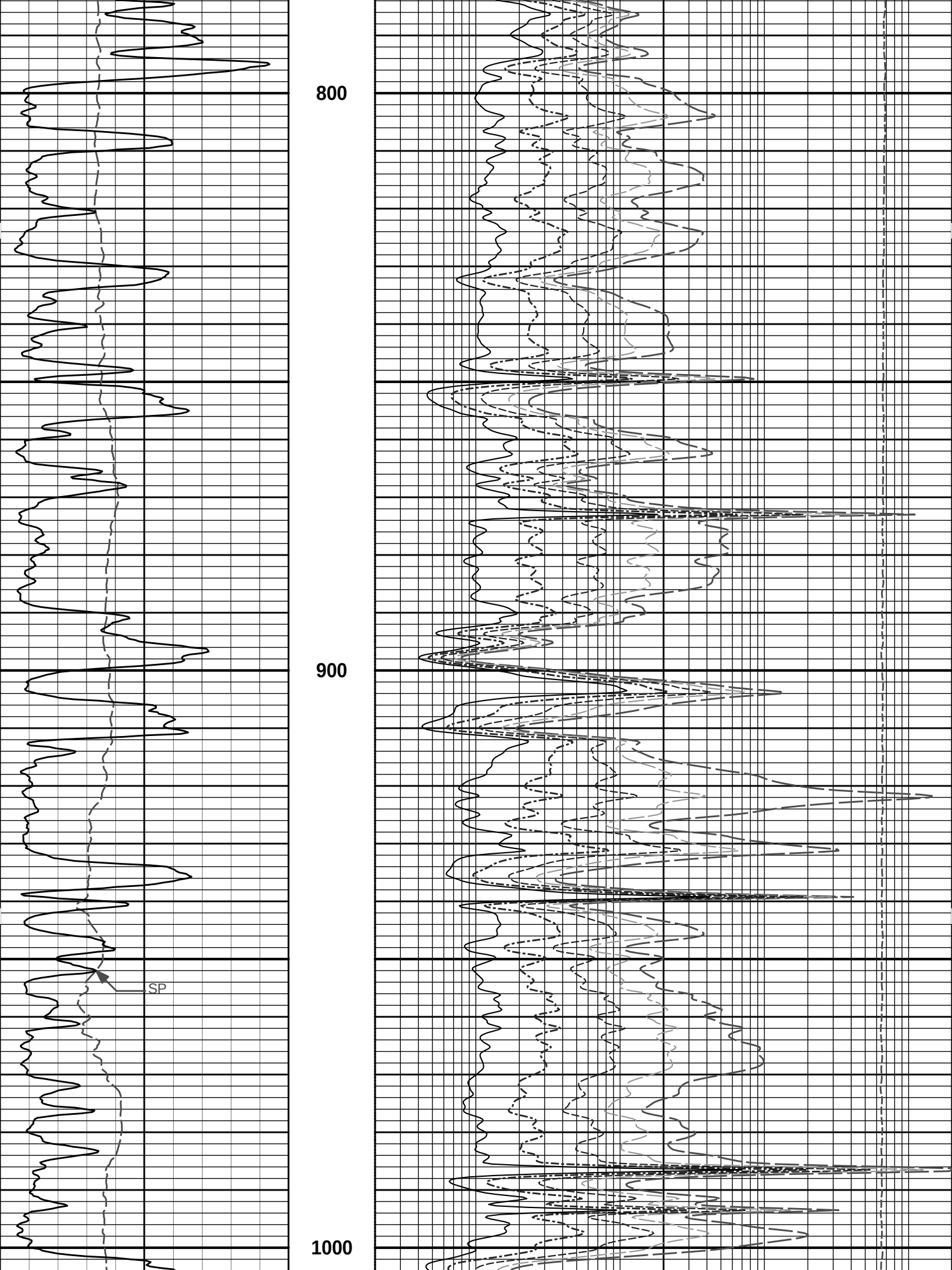
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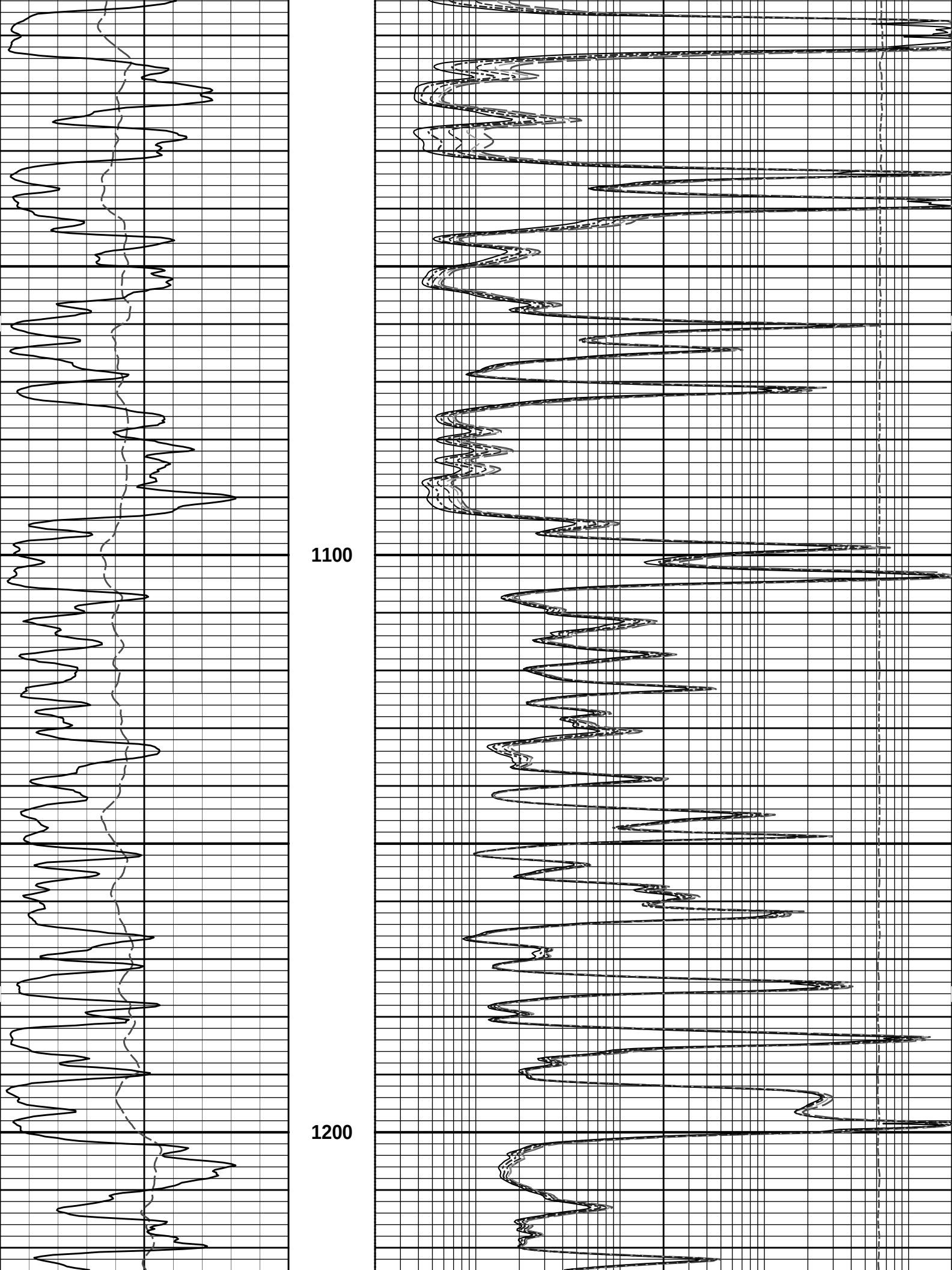
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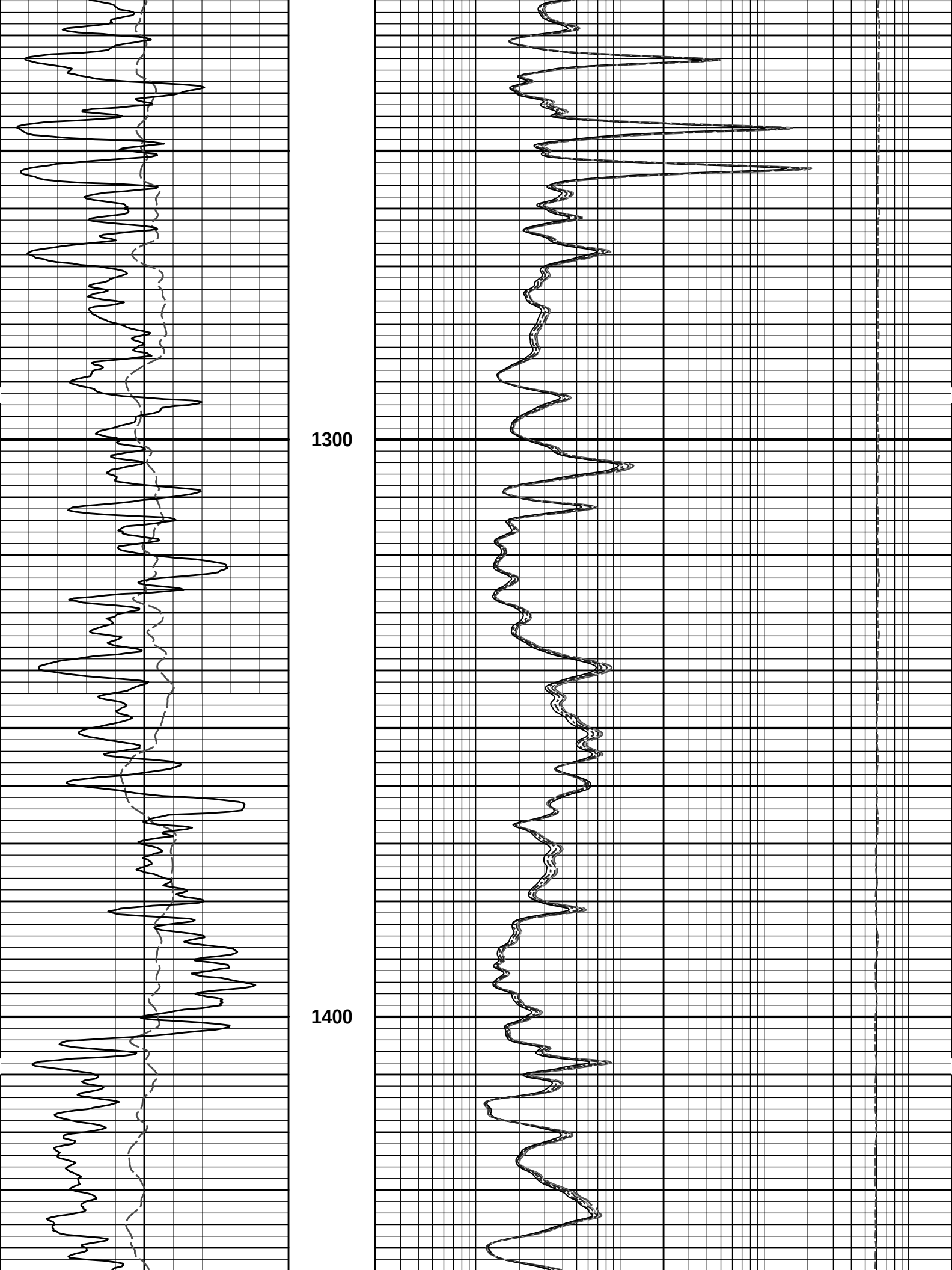
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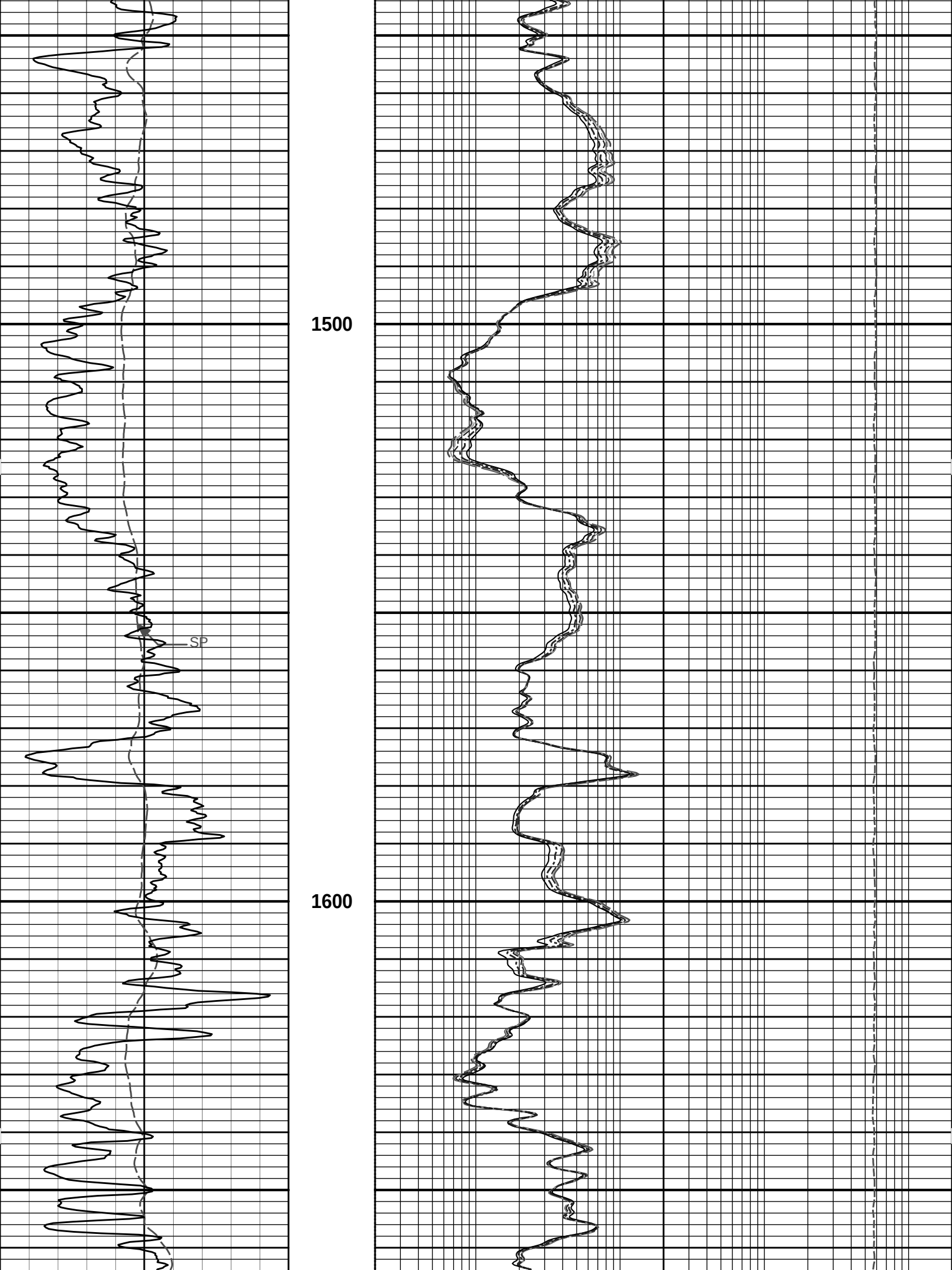
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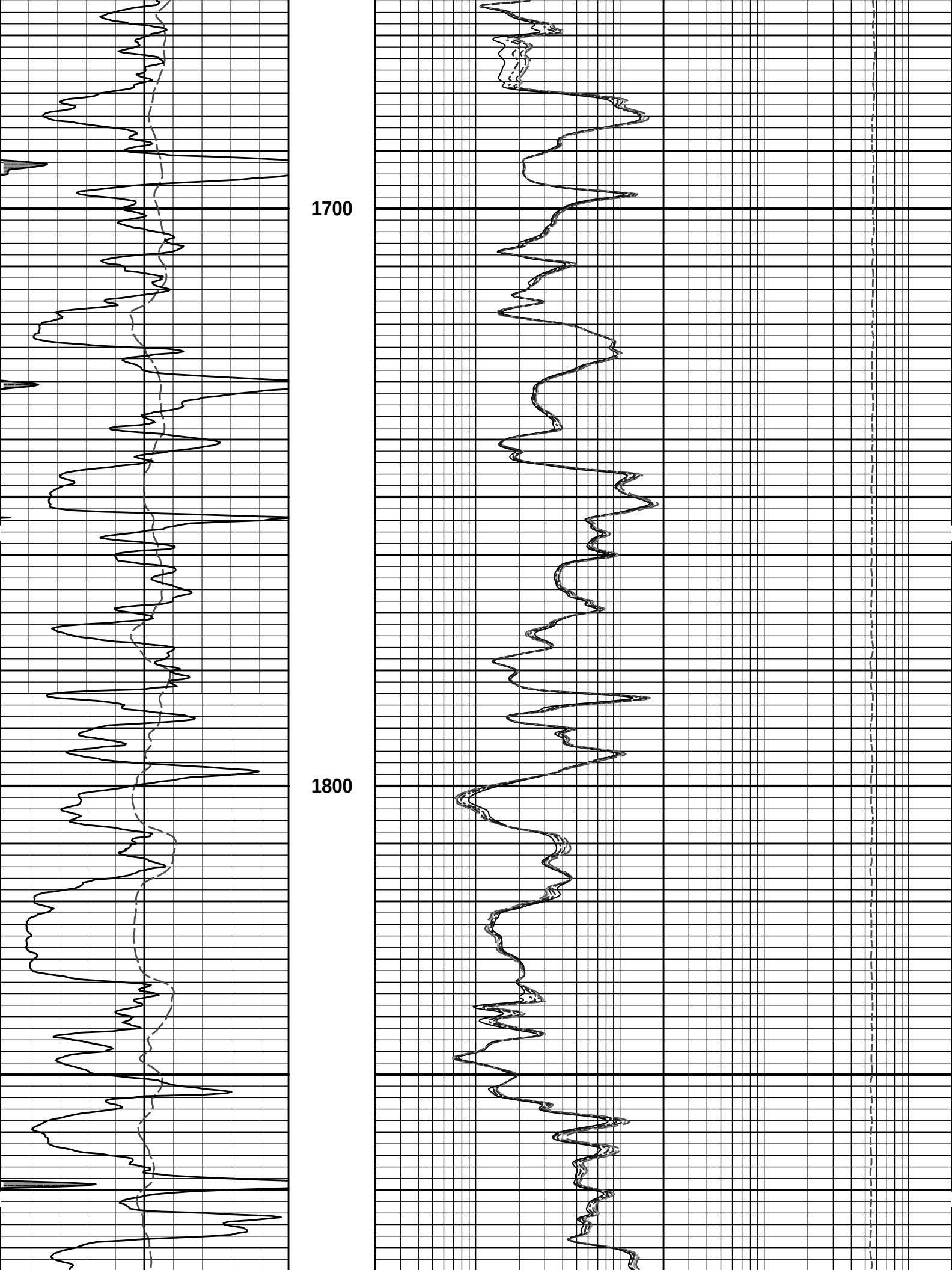
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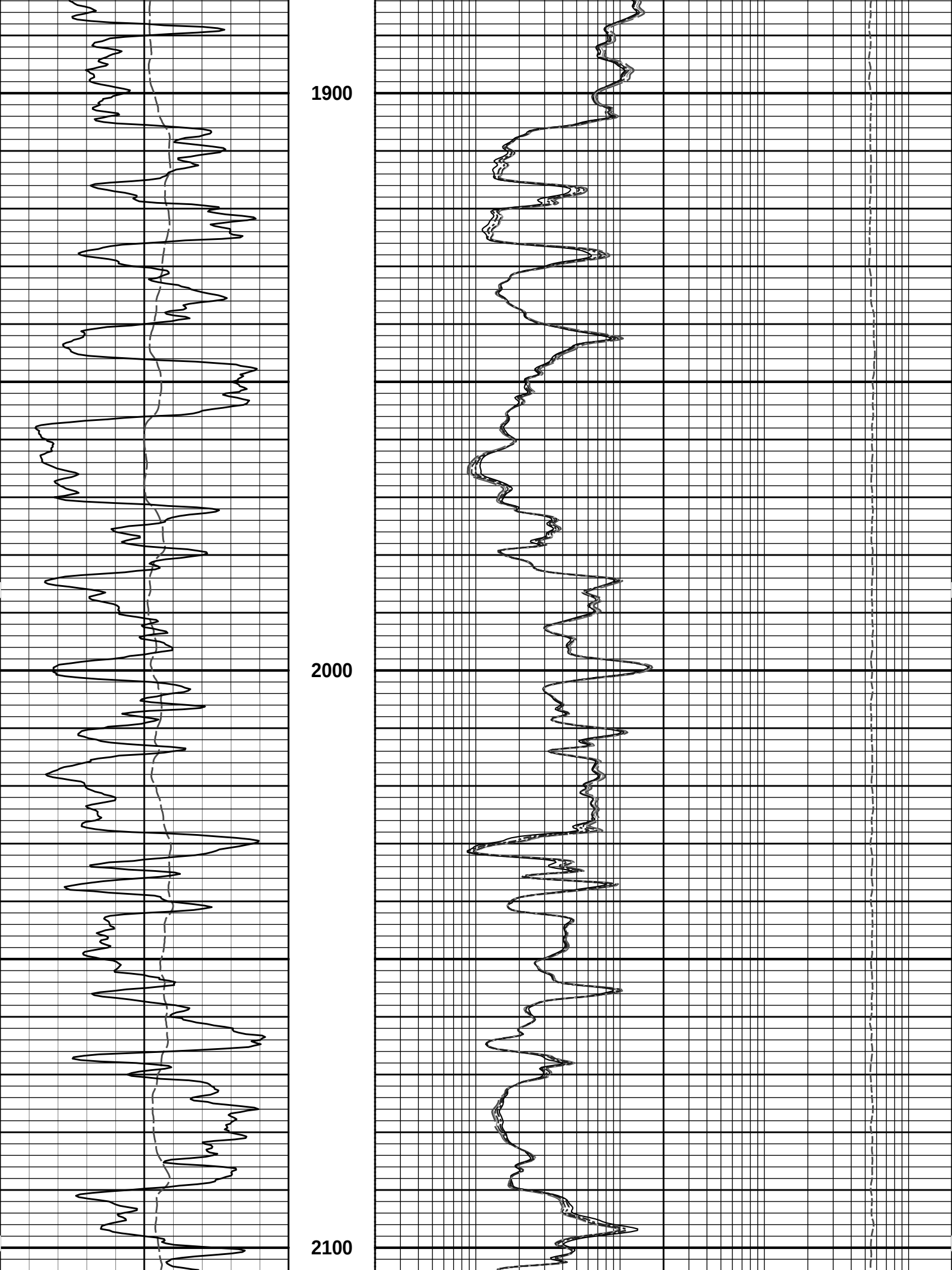
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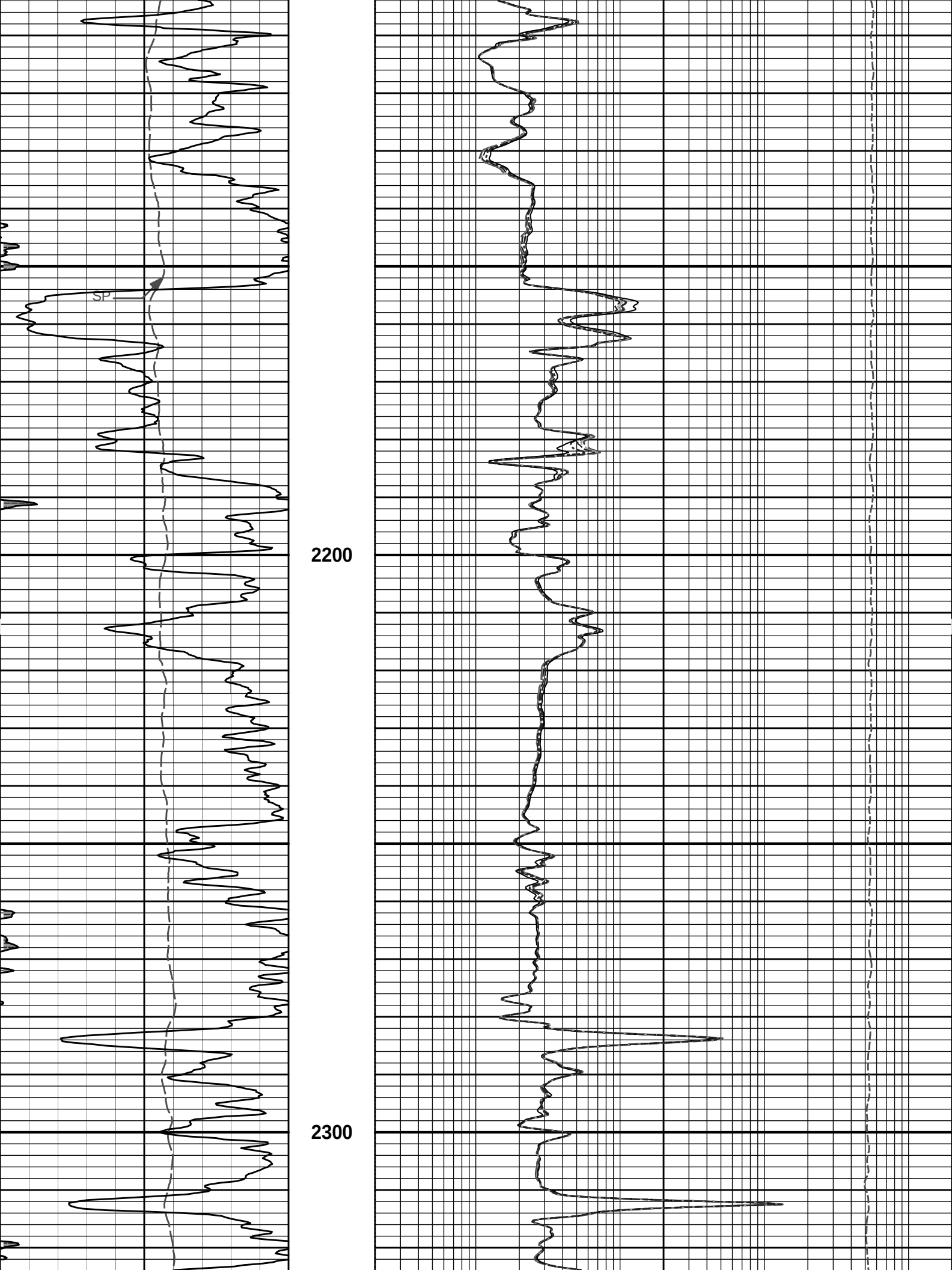
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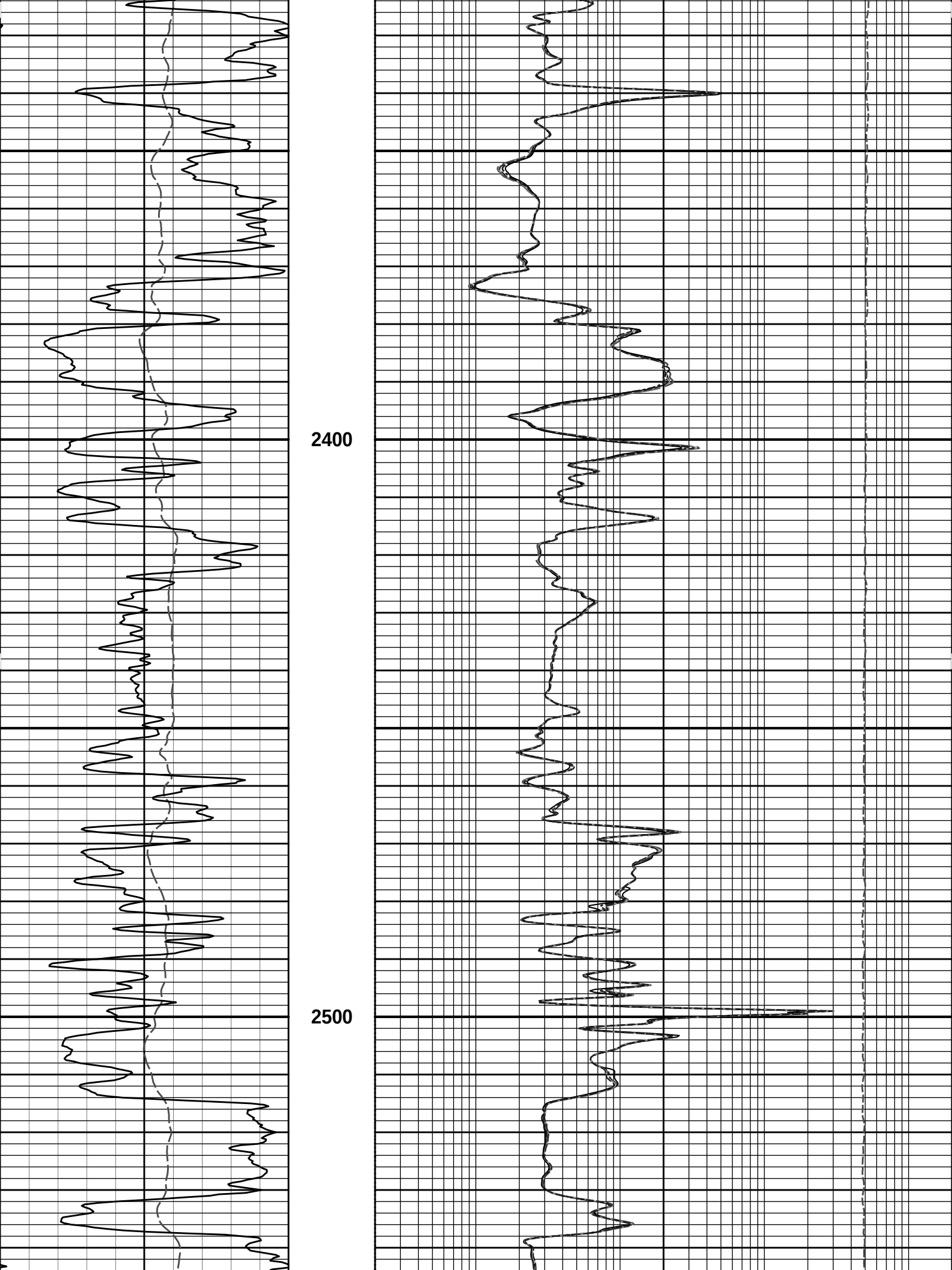
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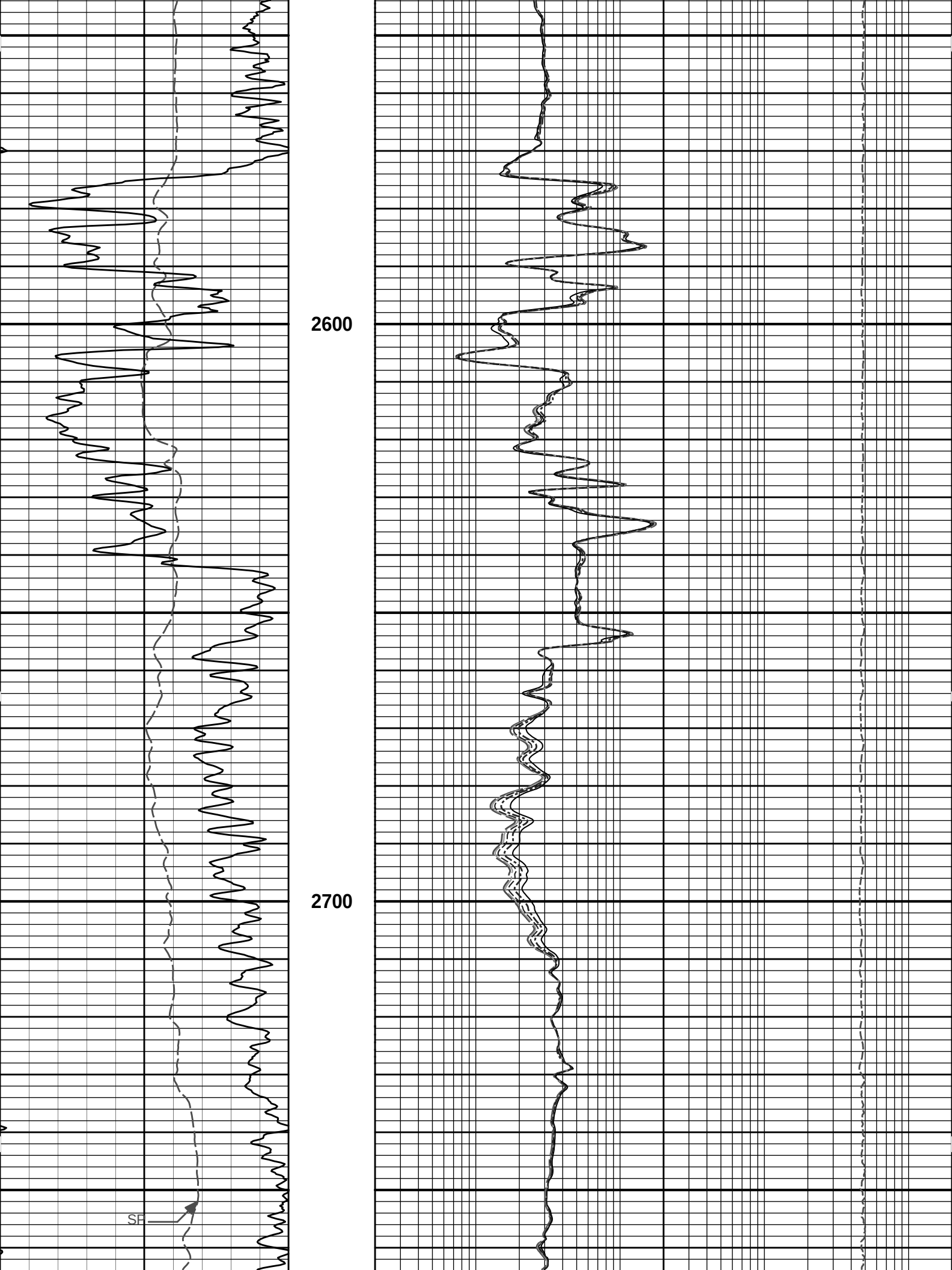
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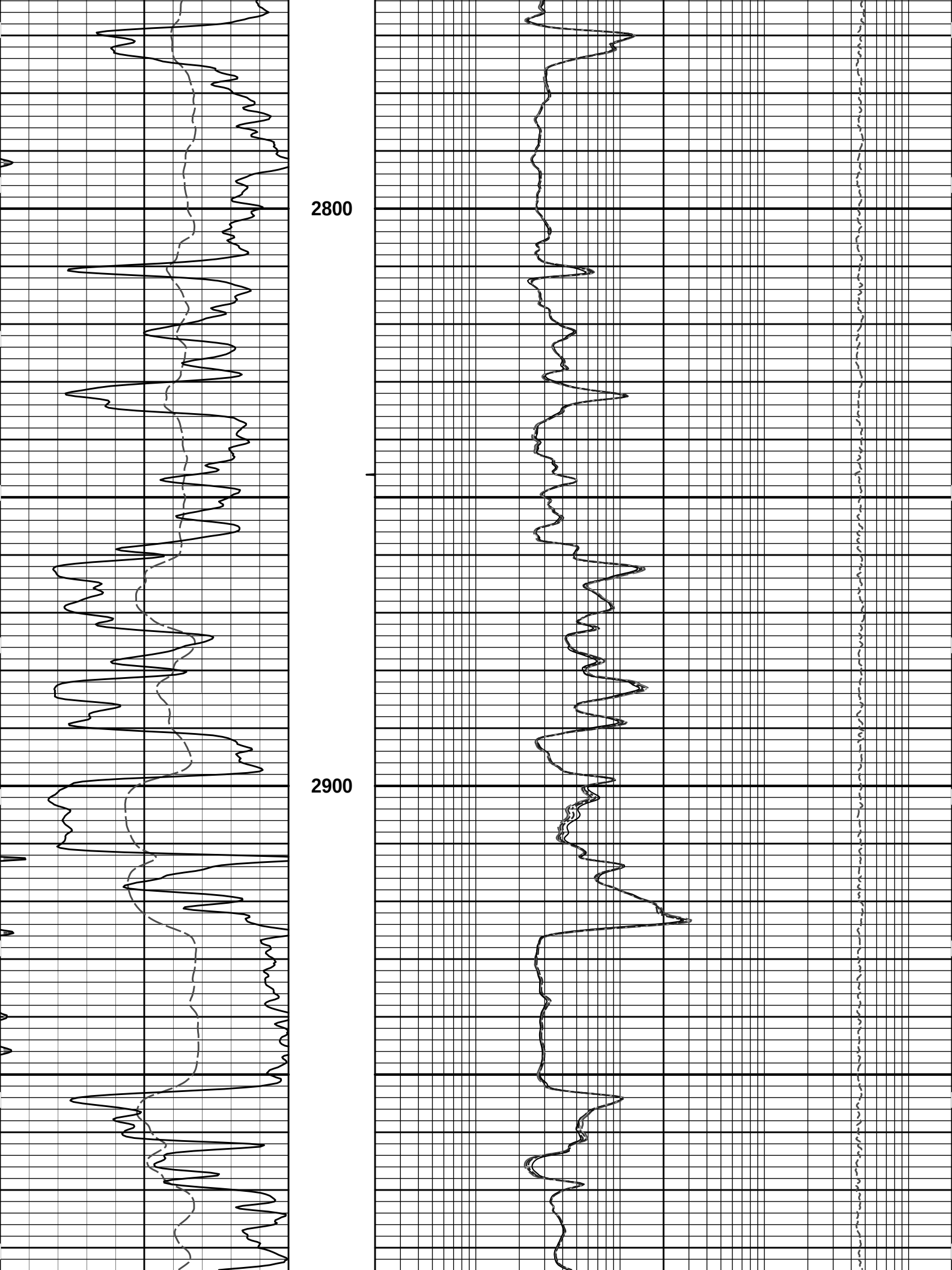
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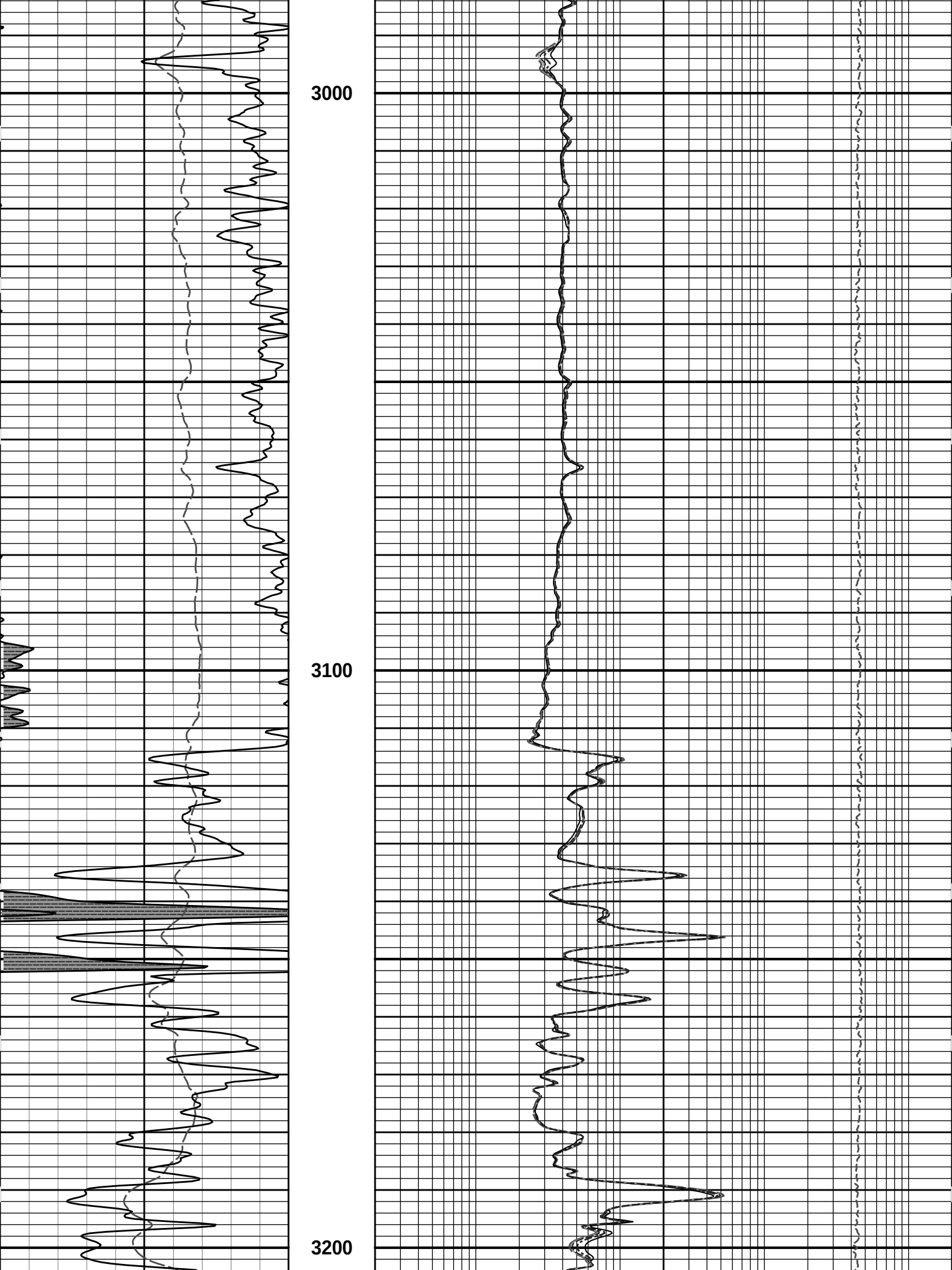
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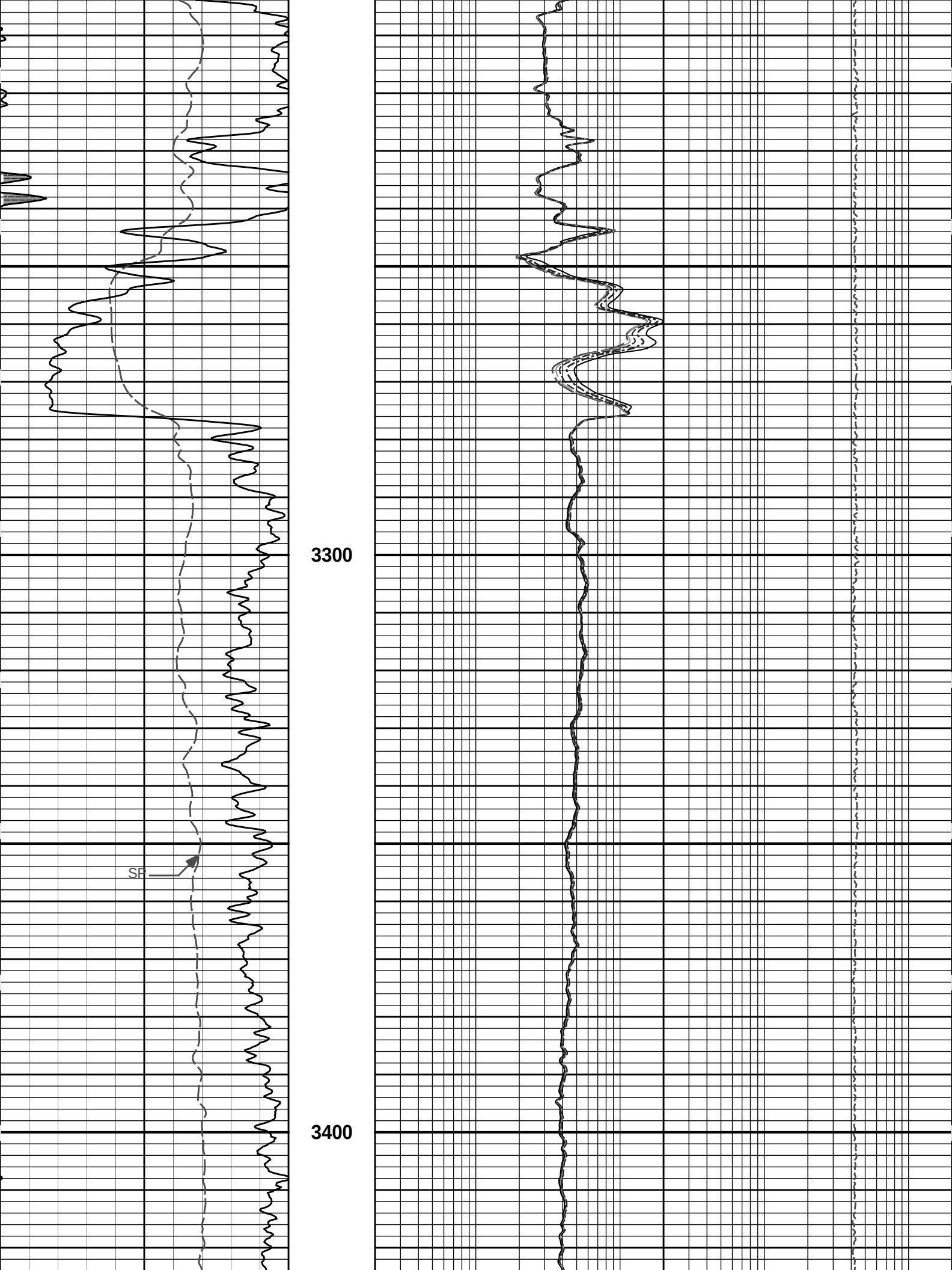
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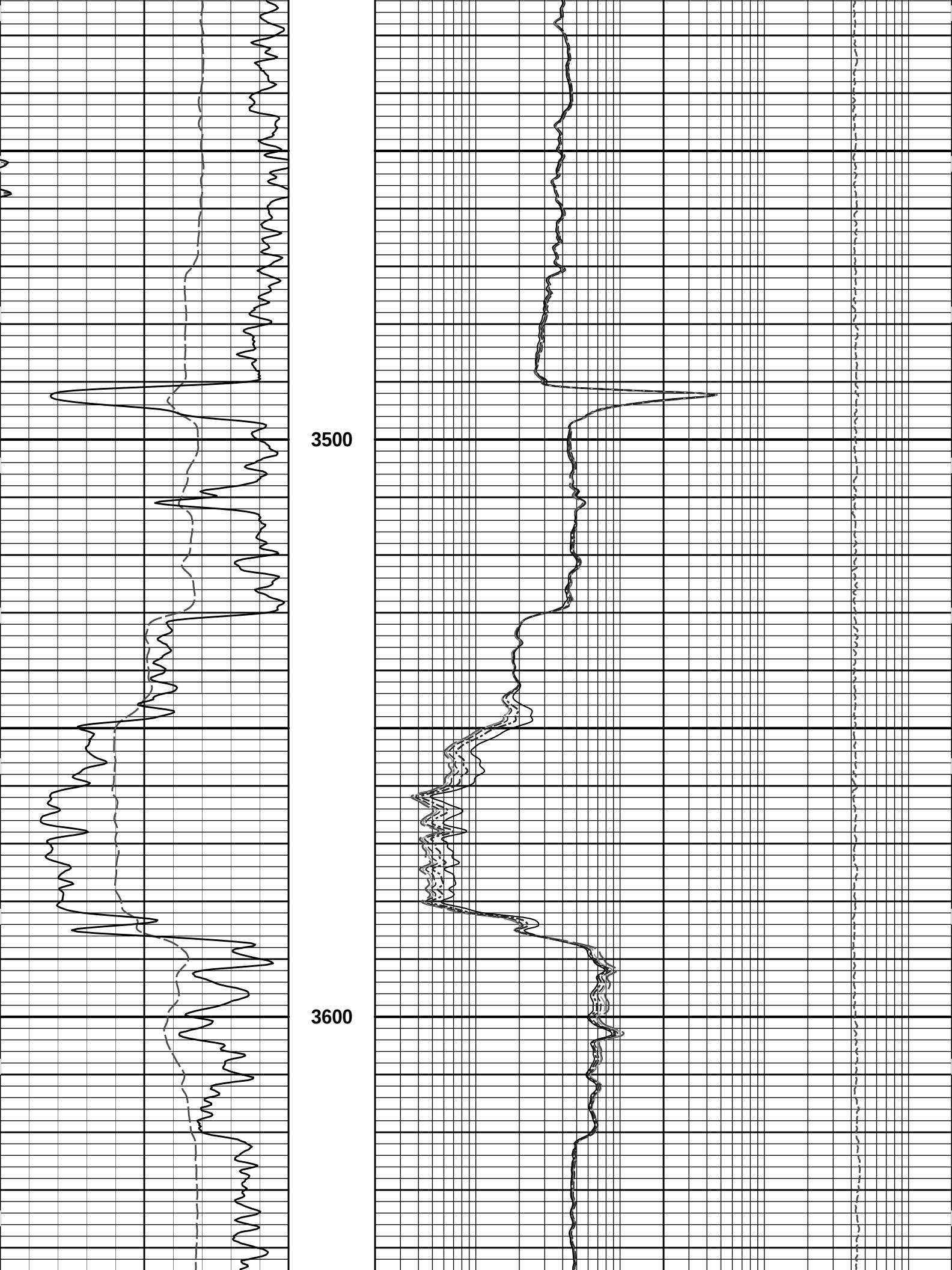
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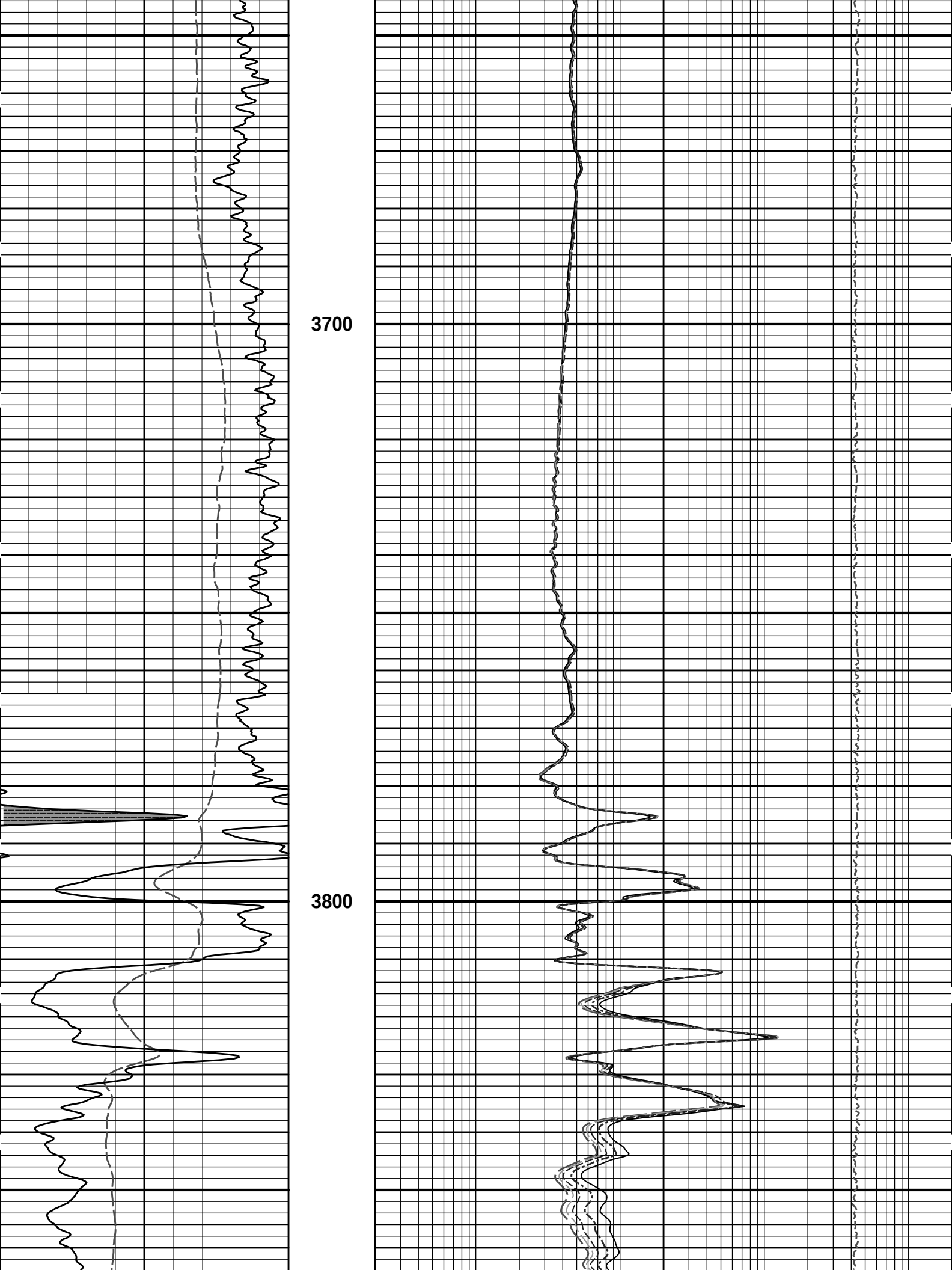
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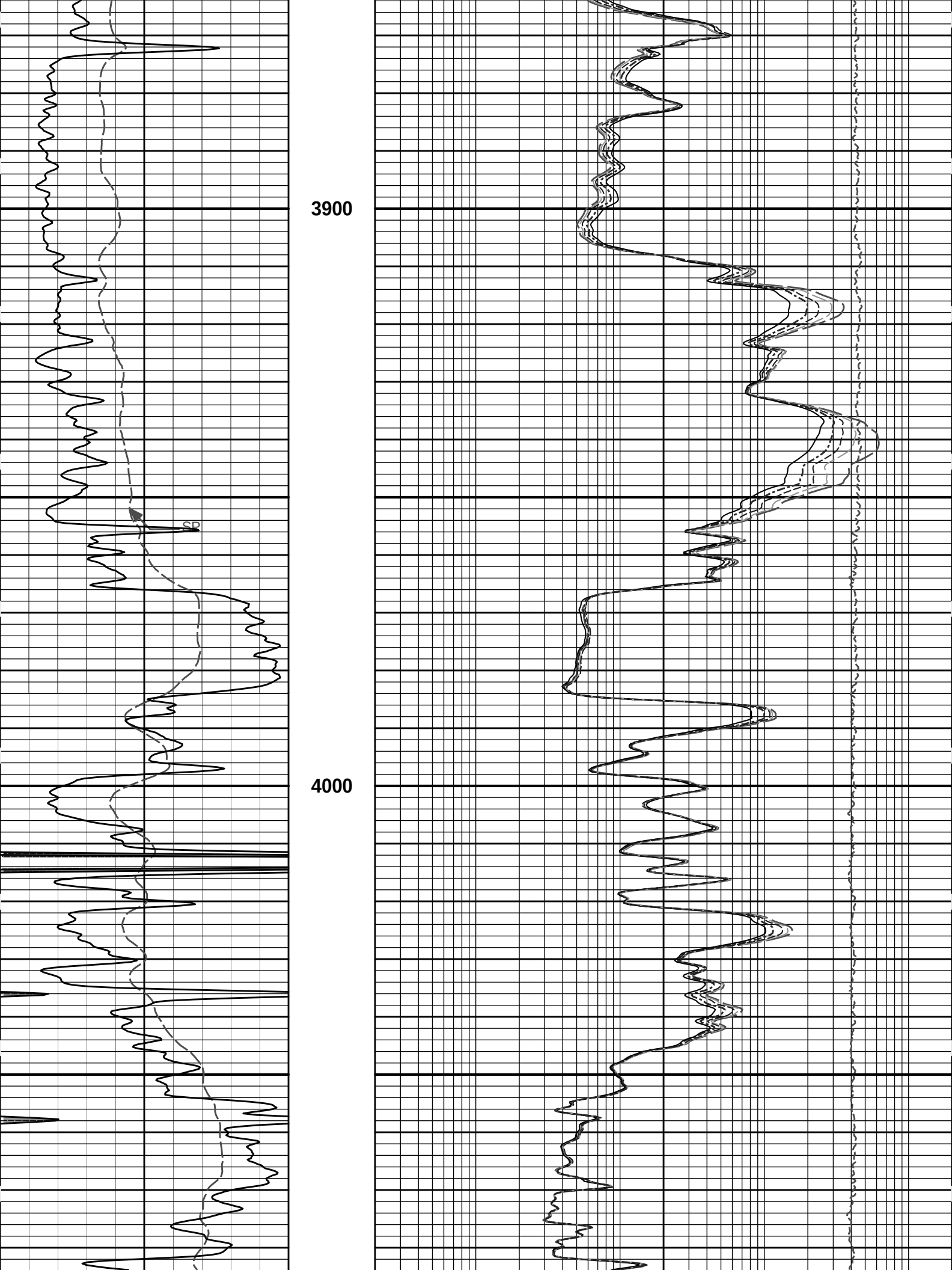
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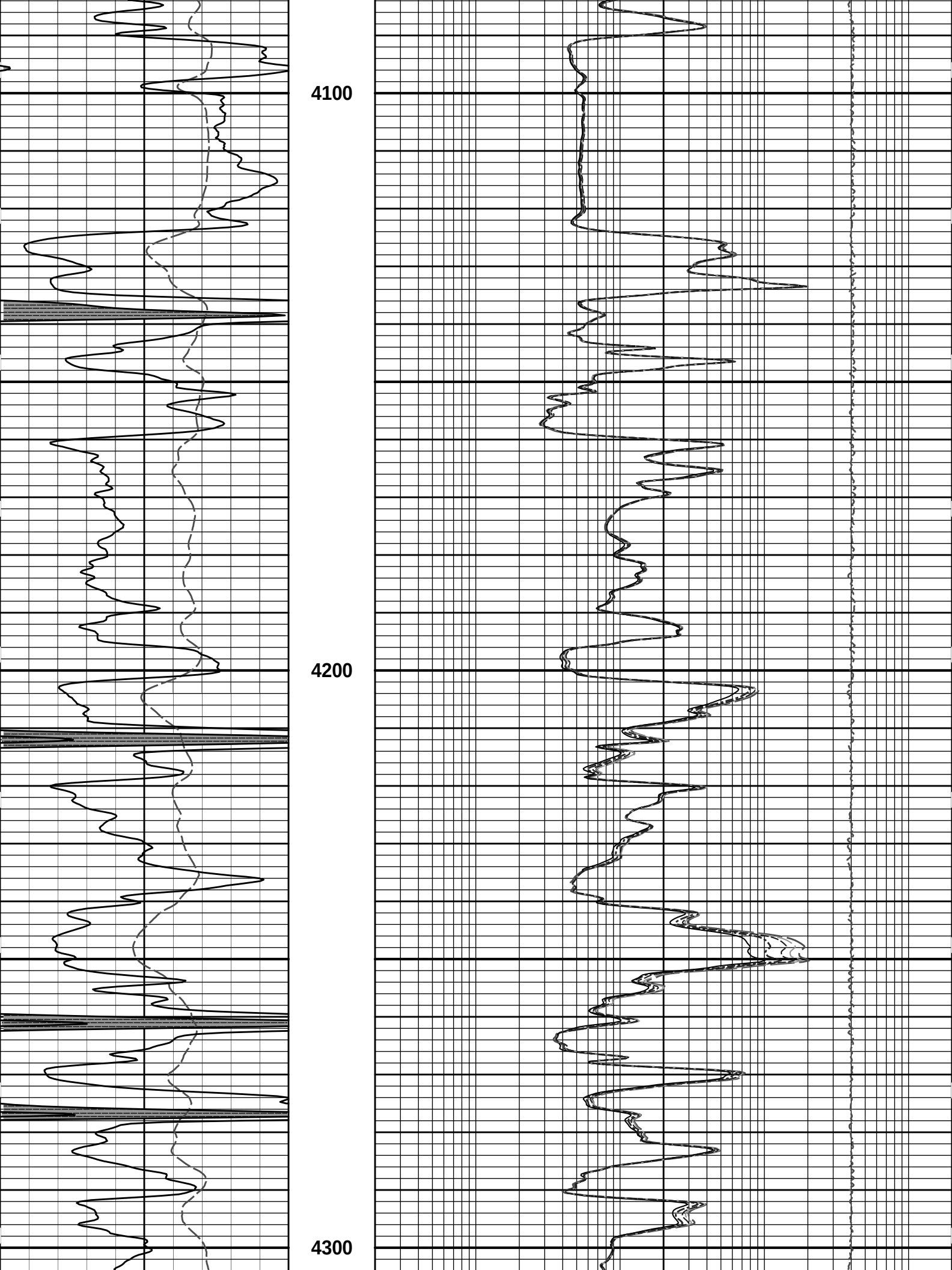
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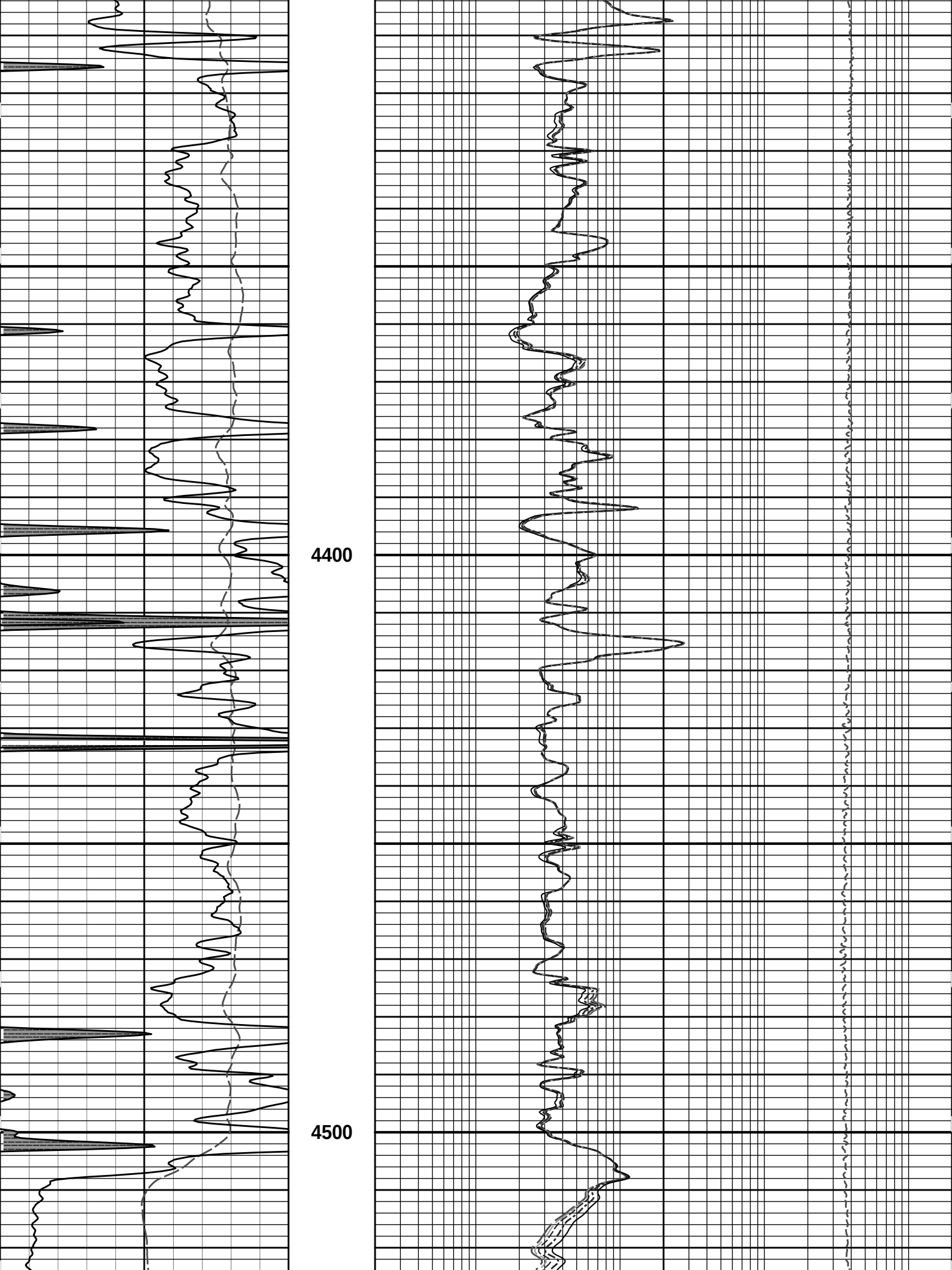
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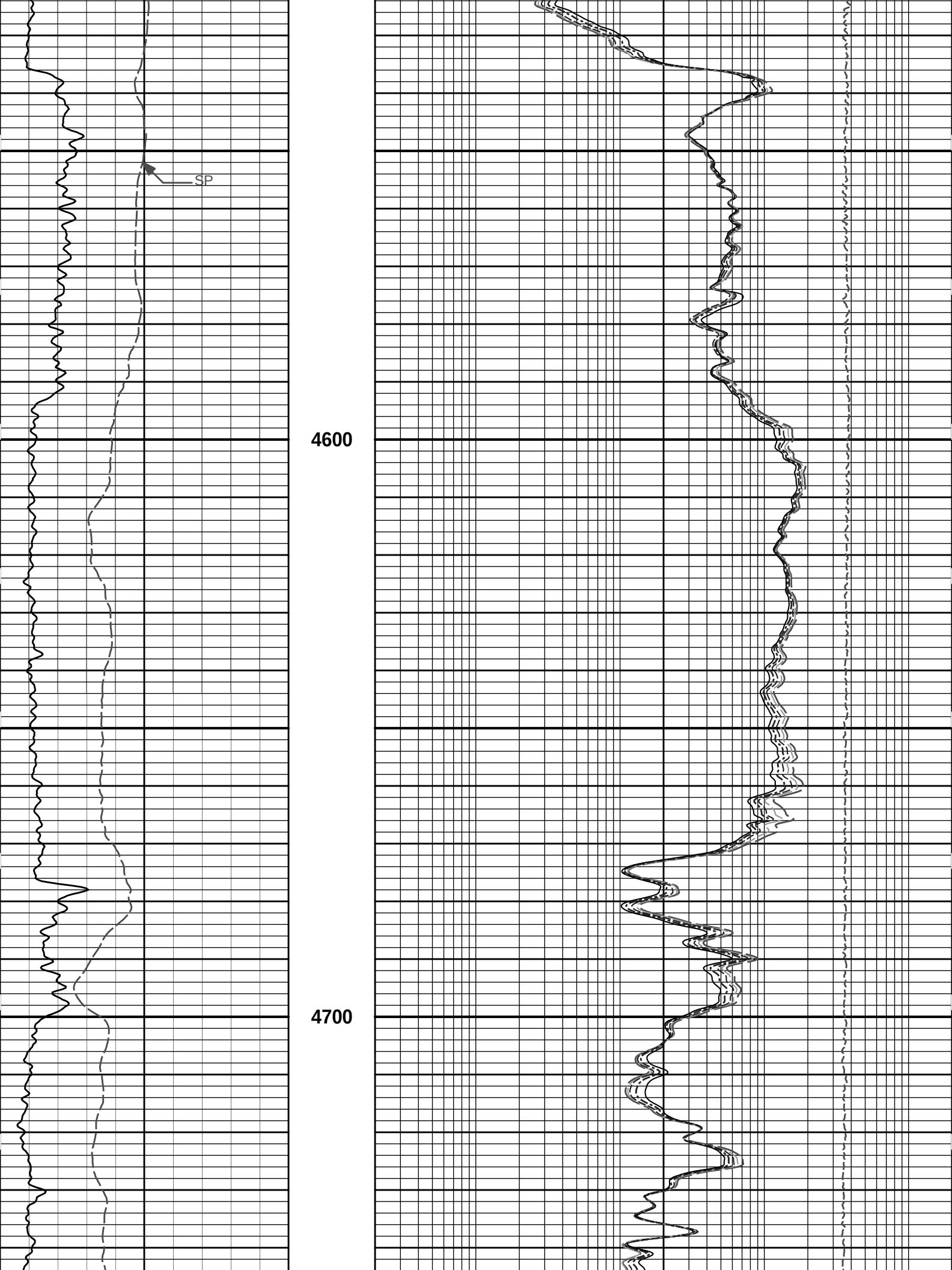
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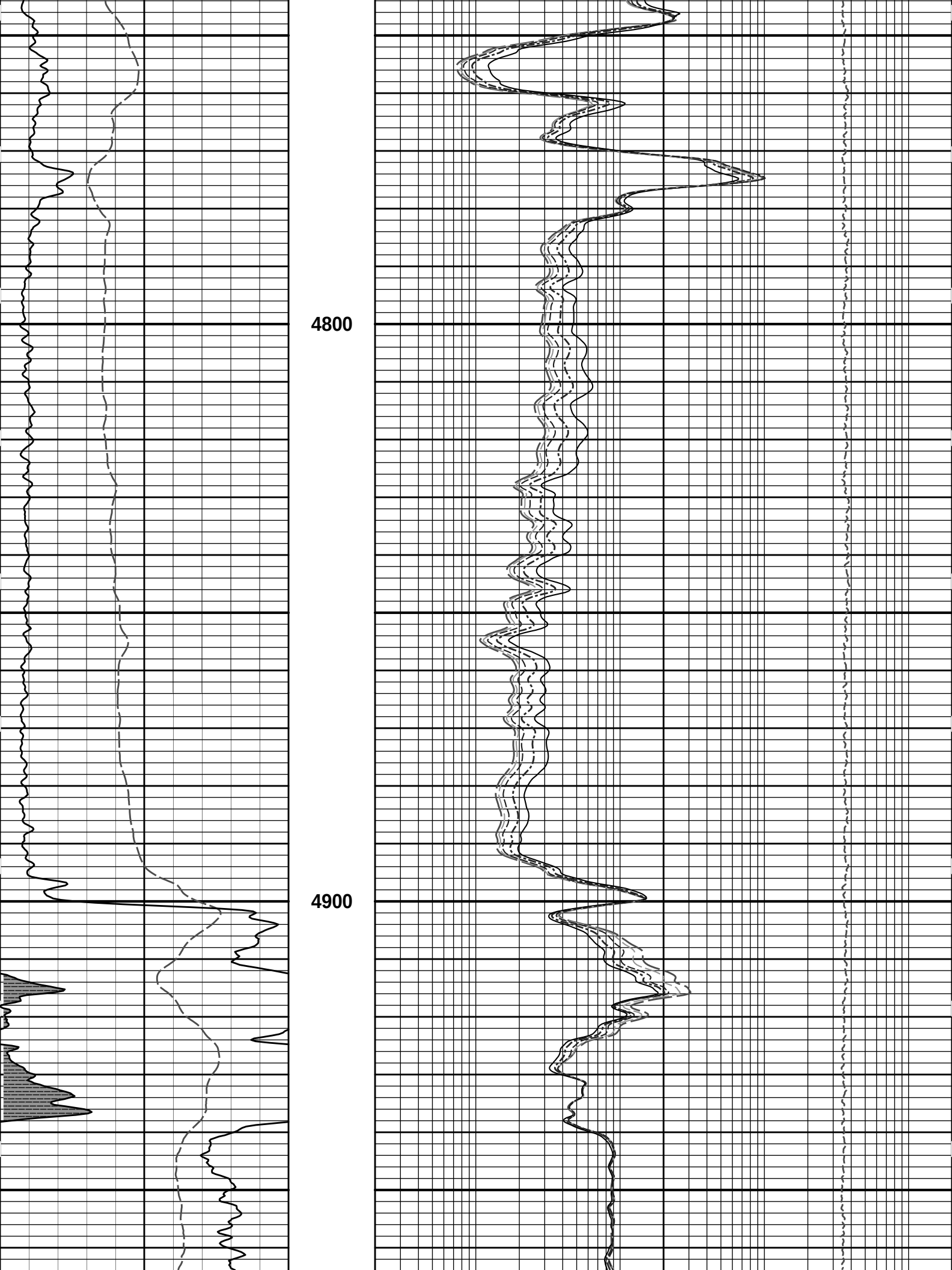
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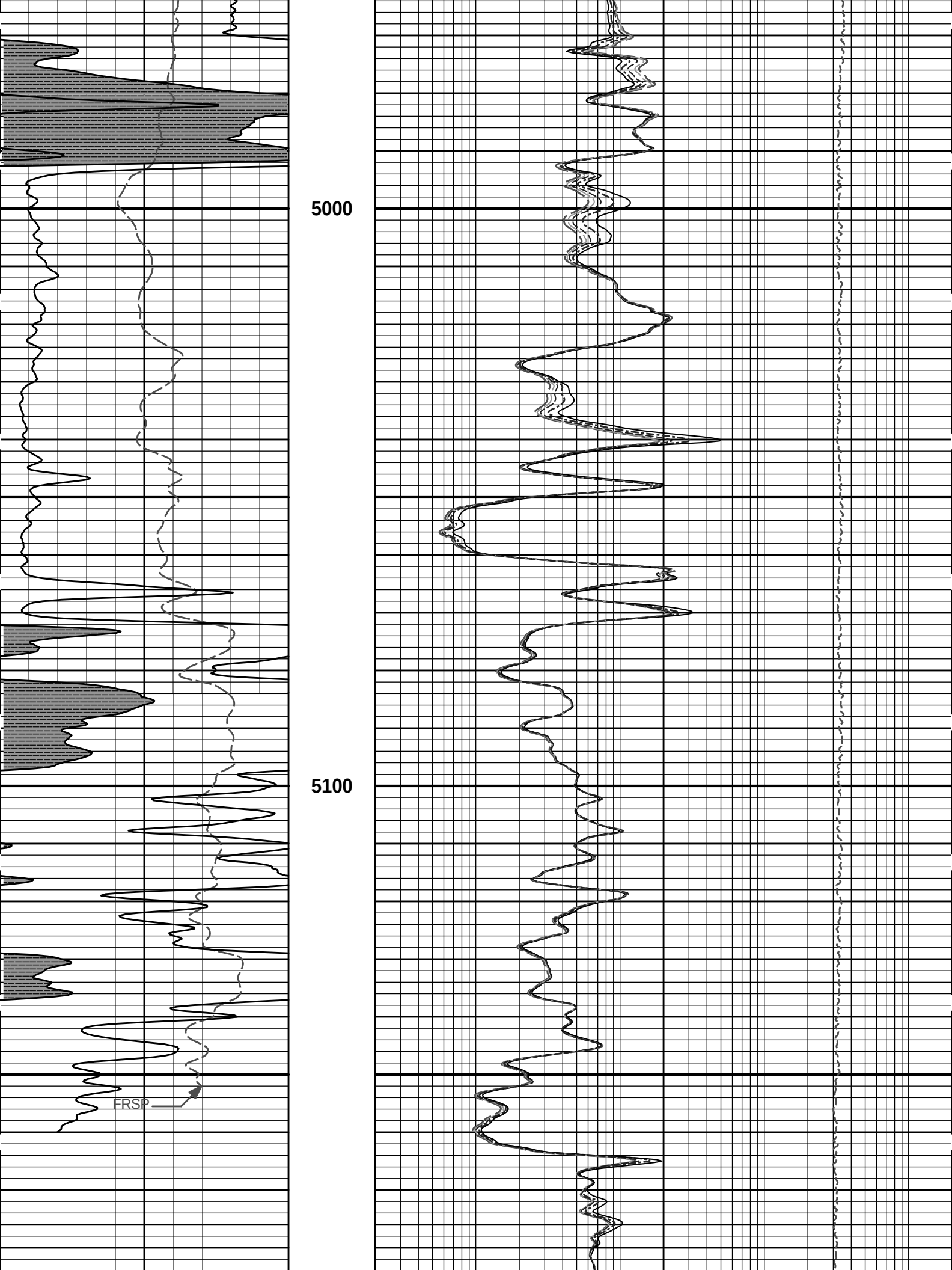
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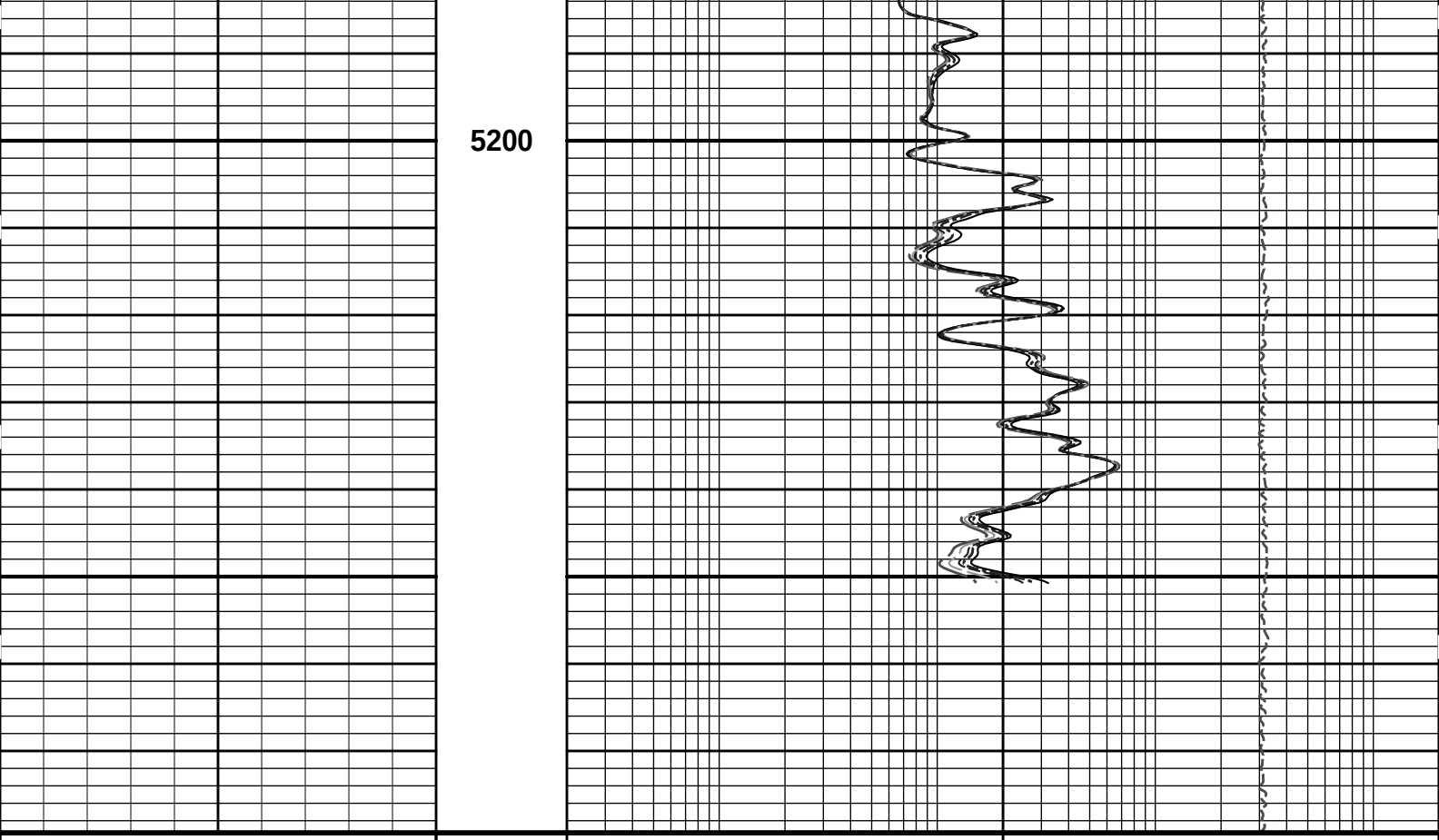


SP	MD 1 : 240 ft		10K Tension 0
-]20[+			pounds
0 Gamma API 150	Tension Pull 10 0	0.2 10in Resistivity 2ft Res 2000	
api		ohmm	
SHALE	Tension Pull	0.2 20in Resistivity 2ft Res 2000	
		ohmm	
		0.2 30in Resistivity 2ft Res 2000	
		ohm-metre	
		0.2 60in Resistivity 2ft Res 2000	
		ohmm	
		0.2 90in Resistivity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

HALLIBURTON

Plot Time: 15-Aug-12 15:19:17
Plot Range: 560 ft to 5279.25 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004\
Plot File: \\-LOCAL-\ACRT\ACRT_5_main_lib

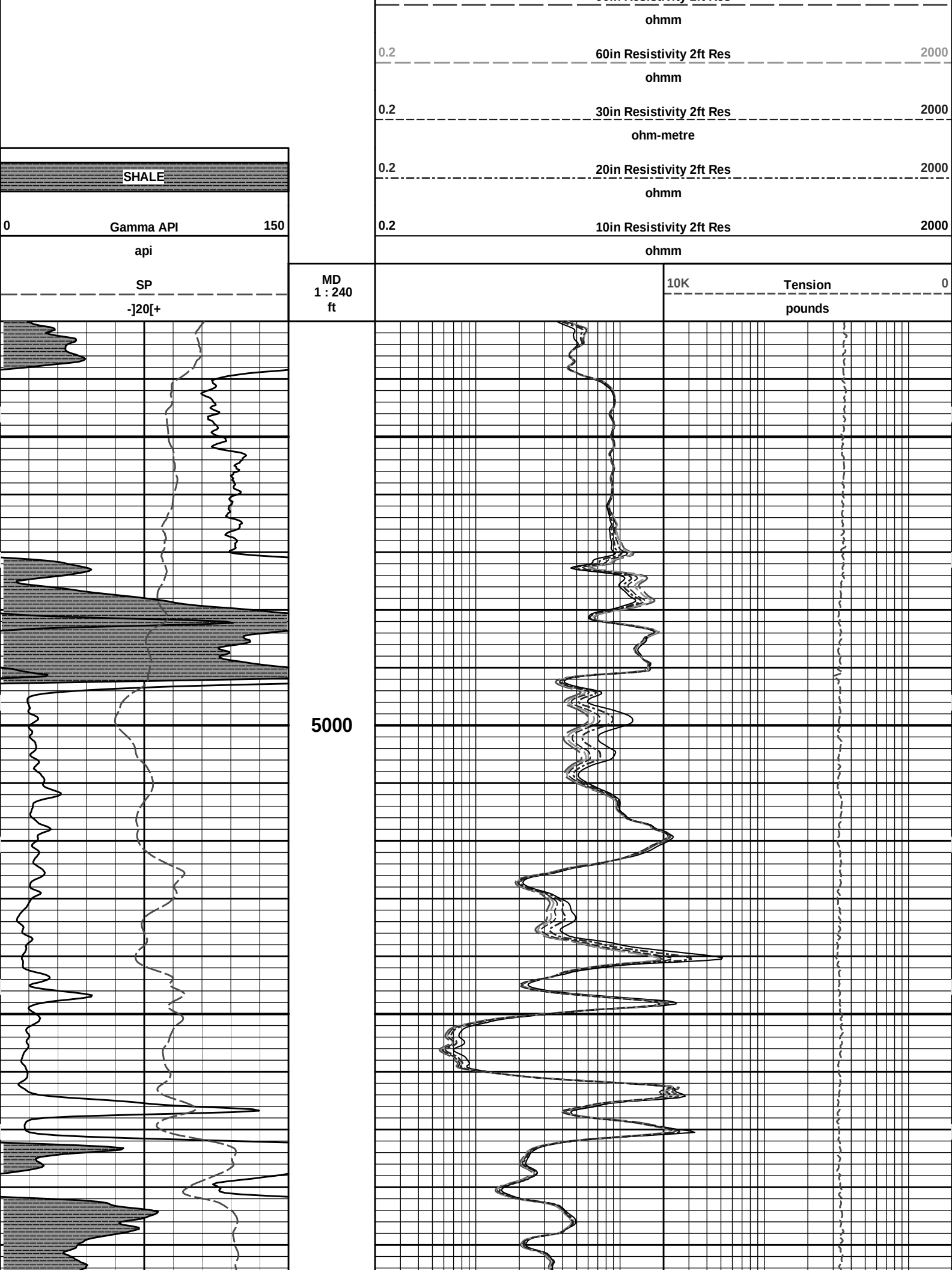
5 INCH MAIN LOG

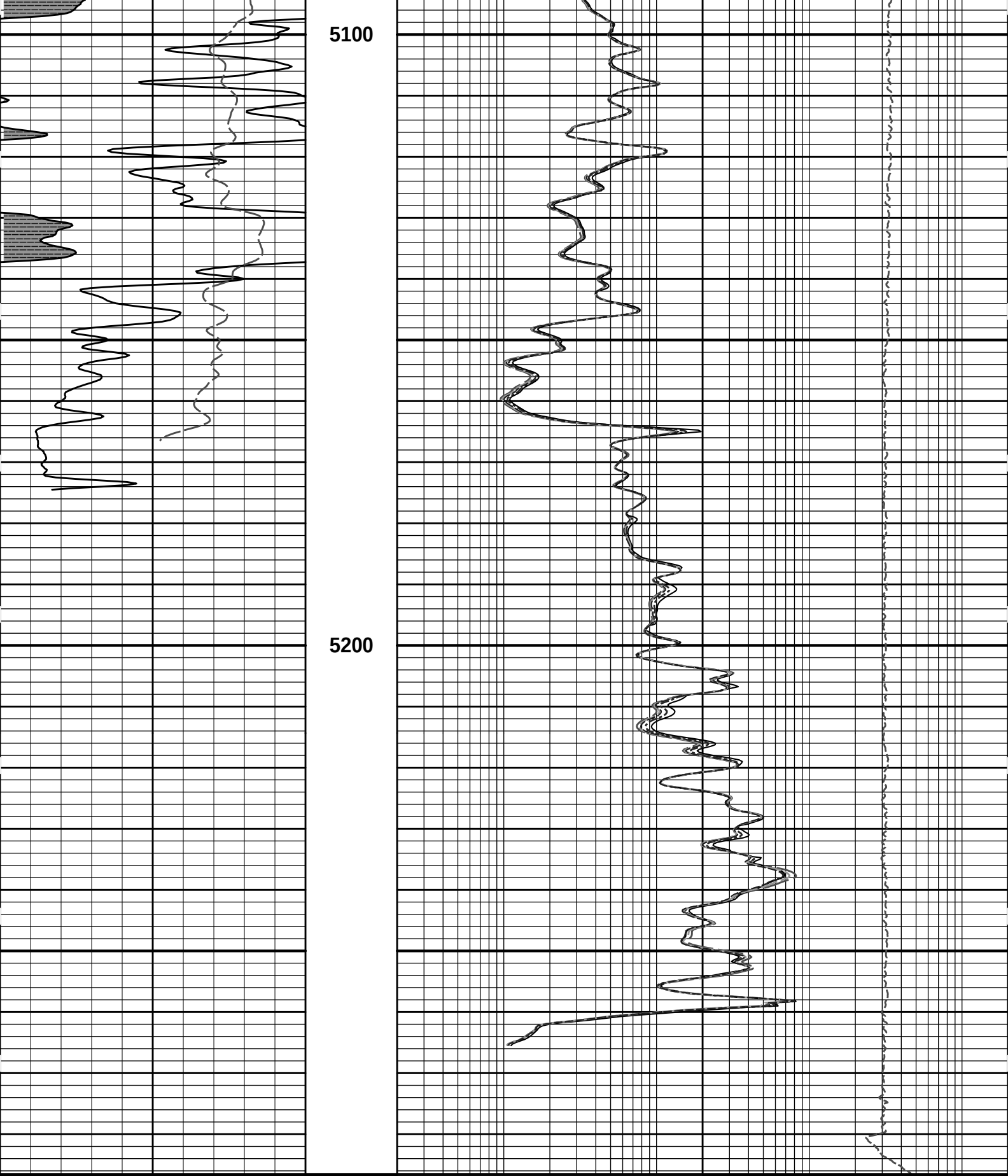
HALLIBURTON

Plot Time: 15-Aug-12 15:19:17
Plot Range: 4930 ft to 5286.5 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

	0.2 90in Resistivity 2ft Res 2000
	ohmm


ohmm
0.2
60in Resistivity 2ft Res
2000
ohmm
0.2
30in Resistivity 2ft Res
2000
ohm-metre
0.2
20in Resistivity 2ft Res
2000
ohmm
0.2
10in Resistivity 2ft Res
2000
ohmm
SHALE
0
Gamma API
150
api
SP
-]20[+
MD
1 : 240
ft
10K
Tension
0
pounds
5000



SP

-]20[+

0 Gamma API 150

api

SHALE

MD
1 : 240
ft

10K Tension 0

pounds

0.2 10in Resistivity 2ft Res 2000

ohmm

0.2 20in Resistivity 2ft Res 2000

ohmm

	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

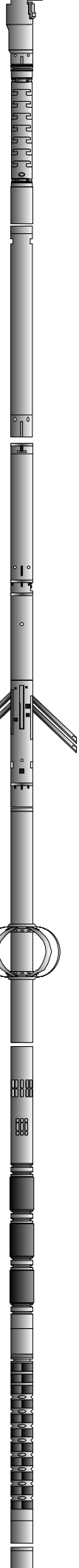
Plot Time: 15-Aug-12 15:19:19
Plot Range: 4930 ft to 5286.5 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\ACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
						114.72 ft
Cable Head-PROT01 30.00 lbs		Ø 3.625 in →			1.92 ft	
						112.80 ft
SP Sub-11441455 60.00 lbs		Ø 3.625 in →		← SP @ 111.02 ft	3.74 ft	
						109.06 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →			8.52 ft	
				← GammaRay @ 103.00 ft		
						100.54 ft
	DSN Decentralizer-11005605 6.60 lbs	Ø 5.000 in* →				
DSNT-11019643 174.00 lbs		Ø 3.625 in →			9.69 ft	
				← DSN Far @ 93.61 ft ← DSN Near @ 92.86 ft		
						90.86 ft
SDLT-I43_M489 360.00 lbs		Ø 4.500 in →			10.81 ft	
	SDLT Pad-P81 65.00 lbs					
	Microlog Pad-M489 8.00 lbs	Ø 4.750 in* → Ø 4.750 in* →		← Microlog @ 83.04 ft ← SDL Caliper @ 82.86 ft ← SDL @ 82.85 ft		



80.04 ft

Flex Joint-
10834121
140.00 lbs

Ø 3.625 in

5.67 ft

74.37 ft

IDT-10967514
150.00 lbs

Ø 3.625 in

7.58 ft

66.79 ft

ICT-11204020
330.00 lbs

Ø 3.625 in

12.83 ft

ICT Caliper @ 56.75 ft

53.96 ft

WAVE Upper
Electronics-
10055643
151.50 lbs

Centralizer 25-001
8.00 lbs

Ø 3.625 in

Ø 4.000 in*

8.33 ft

45.63 ft

WAVE Trans-
Isolator - Std-
10055645
277.00 lbs

Ø 3.625 in

10.88 ft

34.75 ft

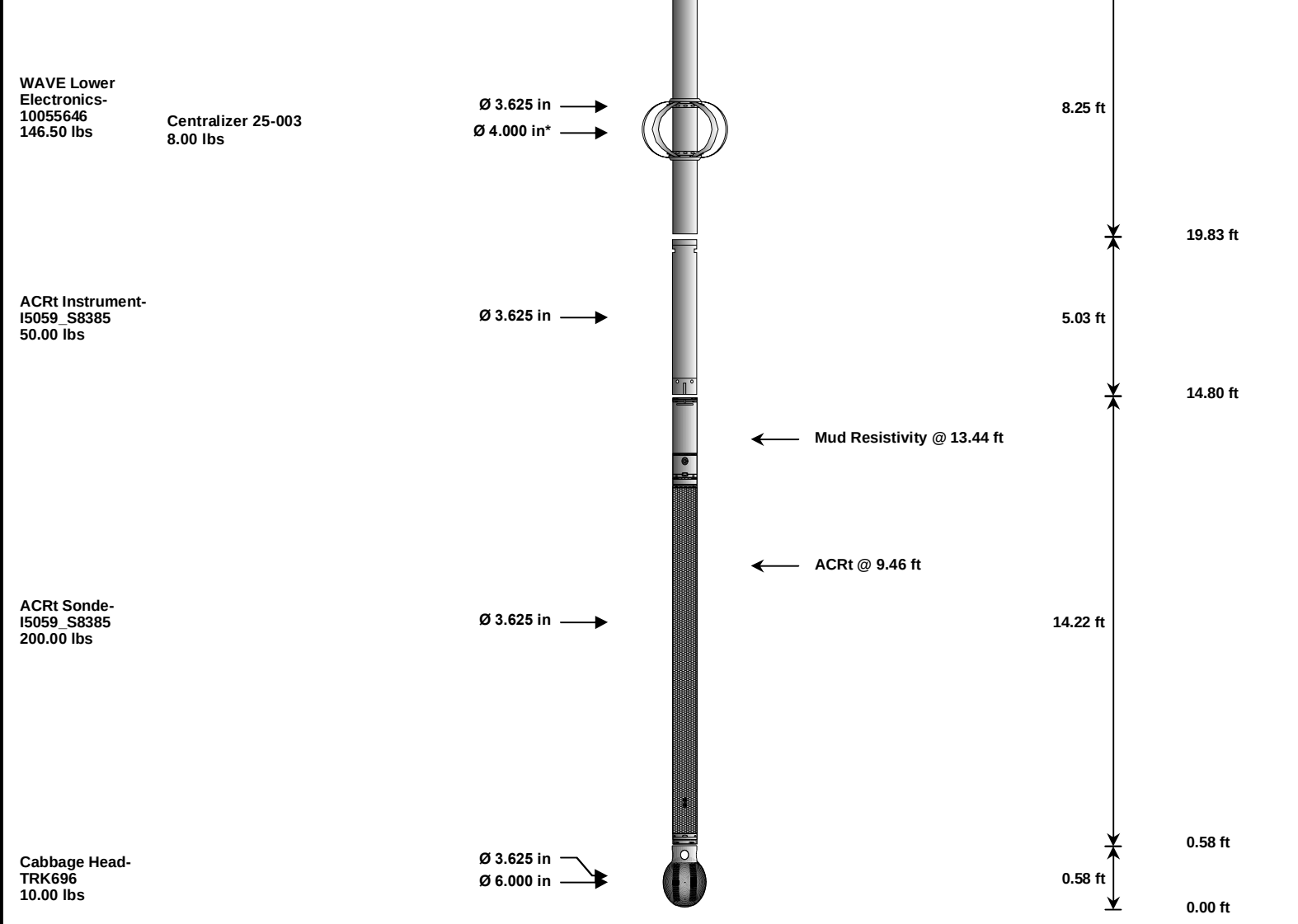
WAVE Receivers-
10055644
135.00 lbs

Ø 3.625 in

Wavesonic Delay @ 31.33 ft

6.67 ft

28.08 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		112.80	300.00
SP	SP Sub	11441455	60.00	3.74		109.06	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52		100.54	60.00
DSNT	Dual Spaced Neutron	11019643	174.00	9.69		90.86	60.00
DCNT	DSN Decentralizer	11005605	6.60	5.13	*	94.19	300.00
SDLT	Spectral Density Tool	I43_M489	360.00	10.81		80.04	60.00
MICP	Microlog Pad	M489	8.00	1.00	*	82.54	60.00
SDLP	Density Insite Pad	P81	65.00	2.55	*	82.25	60.00
FLEX	Flex Joint	10834121	140.00	5.67		74.37	300.00
IDT	Insite Directional Tool	10967514	150.00	7.58		66.79	30.00
ICT	Six Independent Arm Caliper	11204020	330.00	12.83		53.96	30.00
WSTT	WAVE Transmitter Electronics - Insite	10055643	151.50	8.33		45.63	100.00
OBCEN	Centralizer - 25 in. Overbody	001	8.00	2.08	*	47.81	300.00
WTIS	WAVE Standard Transmitter - Standard Isolator	10055645	277.00	10.88		34.75	100.00
WSTT	WAVE Receiver Section - Offset Dipole	10055644	135.00	6.67		28.08	30.00
WSTT	WAVE Lower Electronics - Insite	10055646	146.50	8.25		19.83	100.00
OBCEN	Centralizer - 25 in. Overbody	003	8.00	2.08	*	22.13	300.00
ACRt	Array Compensated True Resistivity Instrument Section	I5059_S8385	50.00	5.03		14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	I5059_S8385	200.00	14.22		0.58	300.00
CBHD	Cabbage Head	TRK696	10.00	0.58		0.00	300.00
Total			**2,474.60**	**114.72**			

* Not included in Total Length and Length Accumulation.

Data: KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\IDLE **Date: 15-Aug-12 10:40:32**

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CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	**GTET - 11048627**	**Reference Calibration Date:**	**09-Aug-12 10:44:30**
Engineer:	**T. HYDE**	**Calibration Date:**	**09-Aug-12 10:50:33**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	57.5	57.1	api
Background + Calibrator	328.7	326.8	api
Calibrator	271.3	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	**GTET - 11048627**	**Reference Calibration Date:**	**09-Aug-12 10:50:33**
Engineer:	**T. HYDE**	**Calibration Date:**	**15-Aug-12 11:00:50**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**

Calibrator Source S/N: TB146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	57.1	39.7	api
Background + Calibrator	326.8	310.0	api
Calibrator	269.6	270.3	api

Shop	Field	Difference	Tolerance
269.6	270.3	-0.7	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	**ACRt Sonde - I5059_S8385**	**Reference Calibration Date:**	**12-Jul-12 16:18:52**
Engineer:	**T. HYDE**	**Calibration Date:**	**12-Jul-12 16:29:47**
Software Version:	**WL INSITE R3.6.0 (Build 3)**	**Calibration Version:**	**1**
Host Tool Name:	**ACRt Instrument - I5059_S8385**		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.03	1.05	0.95	1.04	1.05	0.95	1.04	1.05
A2 (50")	0.95	1.01	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.01	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.01	1.05	0.95	1.01	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	1.00	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	-1.40	2	-6	-4.43	-2	-8	-4.52	-2
A2 (50")	-7	-2.26	0	-7	-3.72	0	-7	-4.52	0
A3 (29")	-7	-12.26	0	-9	-3.56	-2	-7	-3.72	-1

A3 (29")	-27	-13.36	-9	-9	-3.56	-3	-7	-2.73	-1
A4 (17")	-180	-107.06	-60	-45	-33.57	-15	-39	-26.06	-13
A5 (10")	N/A	N/A	N/A	-150	-82.67	-50	-80	-41.94	-10
A6 (6")	N/A	N/A	N/A	175	341.28	525	90	170.50	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.92	1.3
36K	1.0	1.37	2.0
72K	1.0	1.63	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-11048627						
Gamma Ray Calibrator	269.6	270.3	----------	-0.7	+/- 9.00	api
ACRt Sonde-I5059_S8385						
Mud Cell	1.00	----------	----------	0.00	----------	ohm-m

Data: KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\IDLE **Date: 15-Aug-12 12:12:50**

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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	9.100	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.480	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	5300.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	IDT	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	IDT	
	SHARED	TEMM	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	

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	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
IDT	WRTI	Survey Writing Interval	30	ft
IDT	SOPT	Smoothing Option	None	
ICT	CLOK	Process Caliper Outputs?	Yes	
ICT	NAVS	Navigation Source Tool	IDT	
WAVE Receivers	WSOK	Process WSTT?	Yes	
WAVE Receivers	AFIL	Adaptive Filtering?	No	
WAVE Receivers	PINT	Process 1 Sample and Skip	0	
WAVE Receivers	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
WAVE Receivers	DTSH	Delta -T Shale	100.00	uspf
WAVE Receivers	DTMT	Delta -T Matrix Type	User define	
WAVE Receivers	DTMA	Delta -T Matrix	47.60	uspf
WAVE Receivers	DTFL	Delta -T Fluid	189.00	uspf
WAVE Receivers	RHOM	Matrix Density	2.7100	g/cc
WAVE Receivers	RHOF	Fluid Density	1.0000	g/cc
WAVE Receivers	SMTH	Semblance Threshold	0.25	
WAVE				

	WAVE Receivers	VPVS	VPVS Ratio for Porosity	1.40	
	WAVE Receivers	APEQ	Acoustic Porosity Equation	Wylie	
	WAVE Receivers	NAVS	Navigation Source Tool	IDT	
	ACRt Sonde	RTOK	Process ACRt?	Yes	
	ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
	ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
	ACRt Sonde	TPOS	Tool Position	Centered	
	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: KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\IDLE **Date: 15-Aug-12 12:14:08**

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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	111.02	NO	
SP	Spontaneous Potential	111.02	BLK	1.250
SPR	Raw Spontaneous Potential	111.02	NO	
SPO	Spontaneous Potential Offset	111.02	NO	
	GTET			
TPUL	Tension Pull	103.00	NO	
GR	Natural Gamma Ray API	103.00	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	103.00	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	103.00	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	
	DSNT			
TPUL	Tension Pull	92.76	NO	
RNDS	Near Detector Telemetry Counts	92.86	BLK	1.417
RFDS	Far Detector Telemetry Counts	93.61	TRI	0.583
DNTT	DSN Tool Temperature	92.86	NO	
DSNS	DSN Tool Status	92.76	NO	
ERND	Near Detector Telemetry Counts EVR	92.86	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	93.61	BLK	0.000
ENTM	DSN Tool Temperature EVR	92.86	NO	
	SDLT			
TPUL	Tension Pull	82.86	NO	
PCAL	Pad Caliper	82.86	TRI	0.250

ACAL	Arm Caliper	82.86	TRI	0.250
	IDT			
TPUL	Tension Pull	67.79	NO	
ACCX	Accelerometer X	67.79	NO	
ACCY	Accelerometer Y	67.79	NO	
ACCZ	Accelerometer Z	67.79	NO	
MAGX	magnetometer x with unit	67.79	NO	
MAGY	Magnetometer Y with unit	67.79	NO	
MAGZ	magnetometer z with unit	67.79	NO	
IAMP	Accelerometer Temperature	67.79	NO	
MTMP	Magnetometer Temperature	67.79	NO	
	ICT			
TPUL	Tension Pull	56.75	NO	
	Arm Potentiometer excitation V	53.96	NO	
	Caliper 1 measurement	56.75	BLK	1.250
	Caliper 2 measurement	56.75	BLK	1.250
	Caliper 3 measurement	56.75	BLK	1.250
	Caliper 4 measurement	56.75	BLK	1.250
	Caliper 5 measurement	56.75	BLK	1.250
	Caliper 6 measurement	56.75	BLK	1.250
	Caliper Global measurement	56.75	BLK	1.250
MOTI	Motor Current	53.96	NO	
MOT1	Motor Voltage Monitor 1	53.96	NO	
STA1	Status word #1	53.96	NO	
STA2	Status word #2	53.96	NO	
PRES	Caliper percentage of total compression of the spring	53.96	NO	
HAZI	Hole Azimuth	56.75	NO	
RB	Relative Bearing	56.75	NO	
AZI1	PAD1 Azimuth	56.75	NO	
DEVI	Inclination	56.75	NO	
	WAVE Receivers			
TPUL	Tension Pull	31.33	NO	
XMS1	Wave Sonic Status Word 1	28.08	NO	
XMS2	Wave Sonic Status Word 2	28.08	NO	
XMS1	Wave Sonic XMITStatus Word 1	28.08	NO	
XMS1	Wave Sonic XMITStatus Word 2	28.08	NO	
F1HA	Dipole 1 HV After	28.08	NO	
F1HB	Dipole 1 HV Before	28.08	NO	
F2HA	Dipole 2 HV After	28.08	NO	
F2HB	Dipole 2 HV Before	28.08	NO	
F3HA	Monopole HV After	28.08	NO	
F3HB	Monopole HV Before	28.08	NO	
F4HA	Monopole 2 HV After	28.08	NO	
F4HB	Monopole 2 HV Before	28.08	NO	
INVT	Input Voltage	28.08	NO	
5VOL	5 Volts	28.08	NO	
MI5A	Minus 5 Volts Analog	28.08	NO	
ITMP	Instrument Temperature	28.08	NO	
PL5A	Plus 5 Volts Analog	28.08	NO	
5VD	Plus 5 Volts Digital	28.08	NO	
TCUR	Tool Current	28.08	NO	
SUPV	Supply Voltage	28.08	NO	
PRVT	Preregulated voltage	28.08	NO	

PRVT	Pre-regulated voltage Xmter	28.08	NO	
TEMP	Temperature	28.08	NO	
ACQN	Acquisition Number	28.08	NO	
XDP	Delay Reference	31.33	NO	
MITM	MIT Mode	31.33	NO	
VERS	Version	28.08	NO	
SEQN	Sequence Number	28.08	NO	
FREV	Firmware Revision	28.08	NO	
WVST	Wavesonic Compressed Data	31.33	NO	
WVS4	Wavesonic Monopole 2 Compressed Data	31.33	NO	
TPUL	Tension Pull	31.33	NO	
WMP	Summed array of Monopole for SIDES - A,B,C,D	31.33	NO	
WM2P	Summed array of Monopole 2 for SIDES - A,B,C,D	31.33	NO	
WXX	Dipole X for SIDES - A-C	31.33	NO	
WYY	Dipole Y for SIDES - B-D	31.33	NO	
WXY	Dipole X for SIDES - B-D	31.33	NO	
WYX	Dipole Y for SIDES - A-C	31.33	NO	
TPUL	Tension Pull	31.33	NO	
WMA	Monopole Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WMB	Monopole Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WMC	Monopole Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WMD	Monopole Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2A	Monopole 2 Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2B	Monopole 2 Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2C	Monopole 2 Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WM2D	Monopole 2 Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WXA	Dipole X Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WXB	Dipole X Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WXC	Dipole X Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WXD	Dipole X Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
WYA	Dipole Y Waveform Side A - Channel 1 to Channel 8 Receivers	31.33	NO	
WYB	Dipole Y Waveform Side B - Channel 1 to Channel 8 Receivers	31.33	NO	
WYC	Dipole Y Waveform Side C - Channel 1 to Channel 8 Receivers	31.33	NO	
WYD	Dipole Y Waveform Side D - Channel 1 to Channel 8 Receivers	31.33	NO	
	ACRt Sonde			
TPUL	Tension Pull	2.97	NO	
F1R1	ACRT 12KHz - 80in R value	9.22	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	9.22	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.72	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.72	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	5.22	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	5.22	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	4.22	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	4.22	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.72	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.72	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.47	BLK	0.000

F1X6	ACRT 12KHz - 6in X value	3.47	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	9.22	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	9.22	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.72	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.72	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	5.22	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	5.22	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	4.22	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	4.22	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.72	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.72	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.47	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.47	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	9.22	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	9.22	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.72	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.72	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	5.22	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	5.22	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	4.22	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	4.22	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.72	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.72	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.47	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.47	BLK	0.000
RMUD	Mud Resistivity	12.76	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.97	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.97	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.97	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.97	BLK	0.000
F3RT	Transmitter Reference 72 KHz Real Signal	2.97	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.97	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.97	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.97	BLK	0.000
ITMP	Instrument Temperature	2.97	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.97	NO	
TIDV	Instrument Temperature Derivative	2.97	NO	
TUDV	Upper Temperature Derivative	2.97	NO	
TLDV	Lower Temperature Derivative	2.97	NO	
TRBD	Receiver Board Temperature	2.97	NO	

Microlog Pad				
TPUL	Tension Pull	83.04	NO	
MINV	Microlog Lateral	83.04	BLK	0.750
MNOR	Microlog Normal	83.04	BLK	0.750

SDLT Pad				
TPUL	Tension Pull	82.85	NO	
NAB	Near Above	82.67	BLK	0.920
NHI	Near Cesium High	82.67	BLK	0.920
NLO	Near Cesium Low	82.67	BLK	0.920
NVA	Near Valley	82.67	BLK	0.920
NBA	Near Barite	82.67	BLK	0.920
NDE	Near Density	82.67	BLK	0.920
NPK	Near Peak	82.67	BLK	0.920
NLI	Near Lithology	82.67	BLK	0.920

NBAU	Near Barite Unfiltered	82.67	BLK	0.250
NLIU	Near Lithology Unfiltered	82.67	BLK	0.250
FAB	Far Above	83.02	BLK	0.250
FHI	Far Cesium High	83.02	BLK	0.250
FLO	Far Cesium Low	83.02	BLK	0.250
FVA	Far Valley	83.02	BLK	0.250
FBA	Far Barite	83.02	BLK	0.250
FDE	Far Density	83.02	BLK	0.250
FPK	Far Peak	83.02	BLK	0.250
FLI	Far Lithology	83.02	BLK	0.250
PTMP	Pad Temperature	82.86	BLK	0.920
NHV	Near Detector High Voltage	82.25	NO	
FHV	Far Detector High Voltage	82.25	NO	
ITMP	Instrument Temperature	82.25	NO	
DDHV	Detector High Voltage	82.25	NO	

Data: KYLIE_ROSE_3305\0001 SP-GTET-DSN-SDL-IDT-ICT-WSTT-ACRT-CH\IDLE **Date: 15-Aug-12 12:14:19**

COMPANY	**SANDRIDGE ENERGY**
WELL	**KYLIE ROSE SWD 3305 1-28**
FIELD	**UNKNOWN**
COUNTY	**HARPER** STATE **KANSAS**

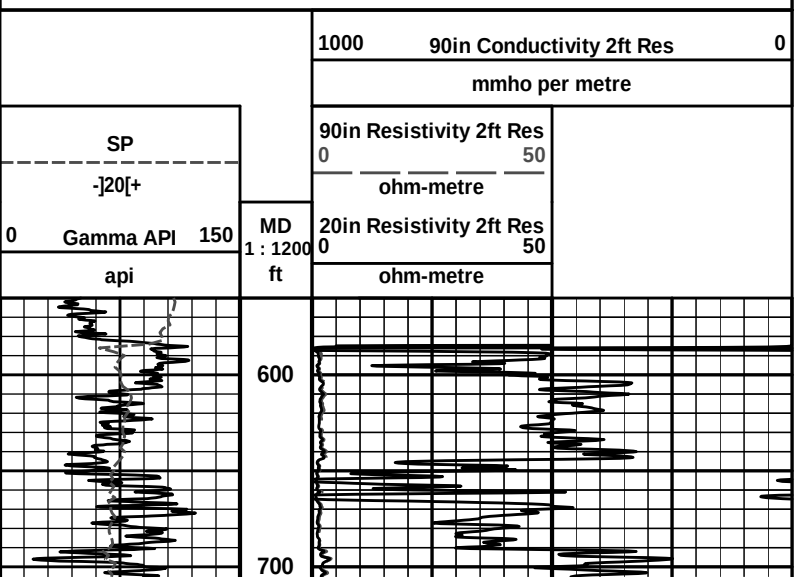
HALLIBURTON

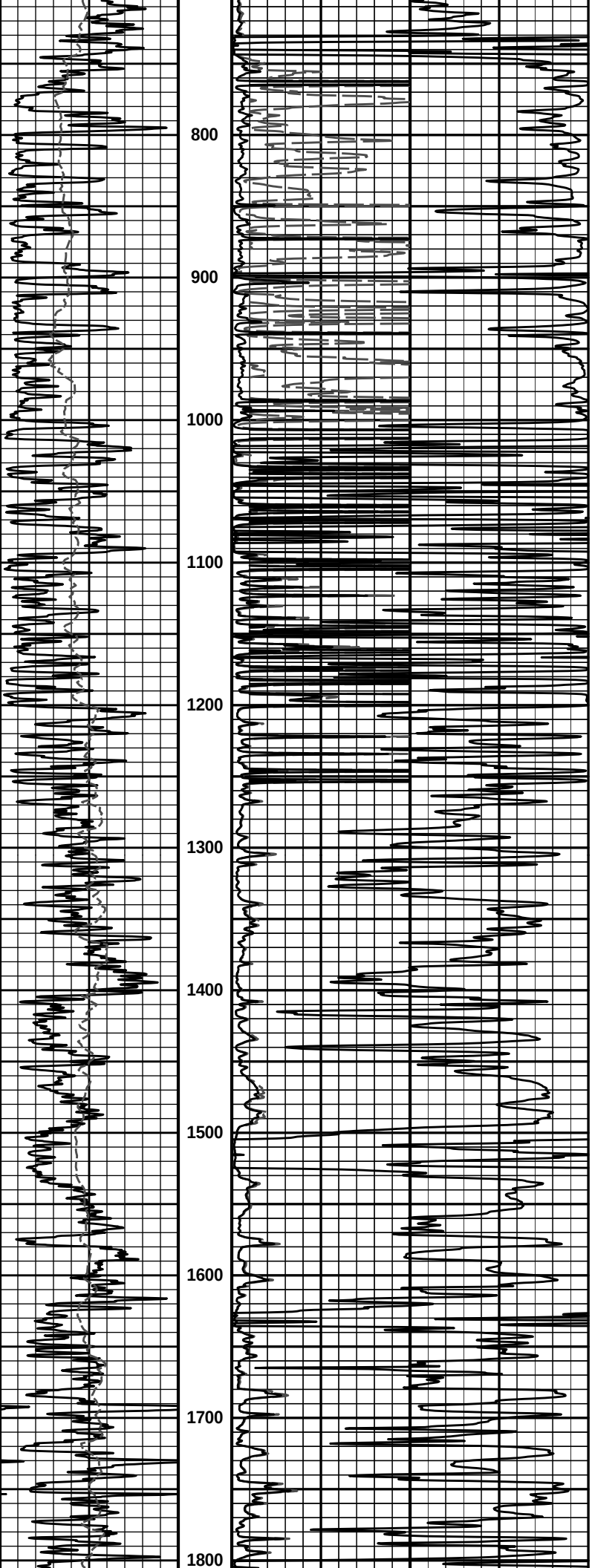
ARRAY COMPENSATED TRUE RESISTIVITY LOG

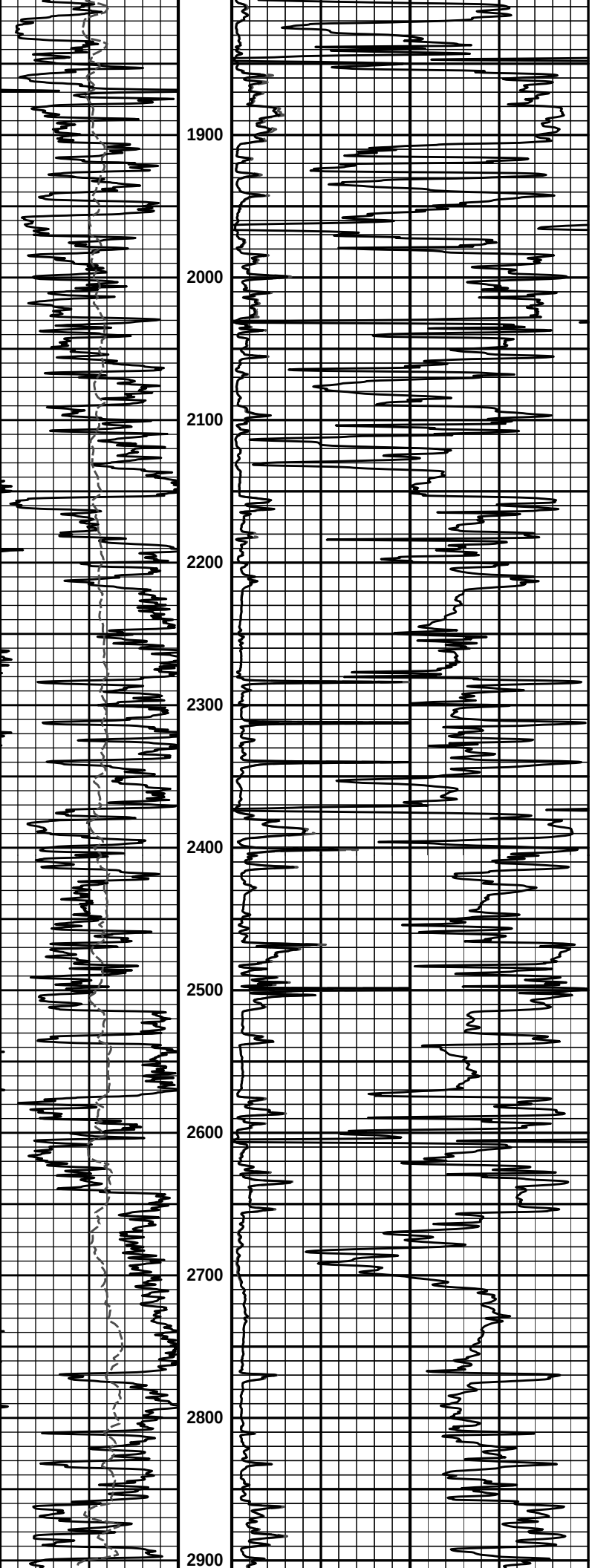
HALLIBURTON

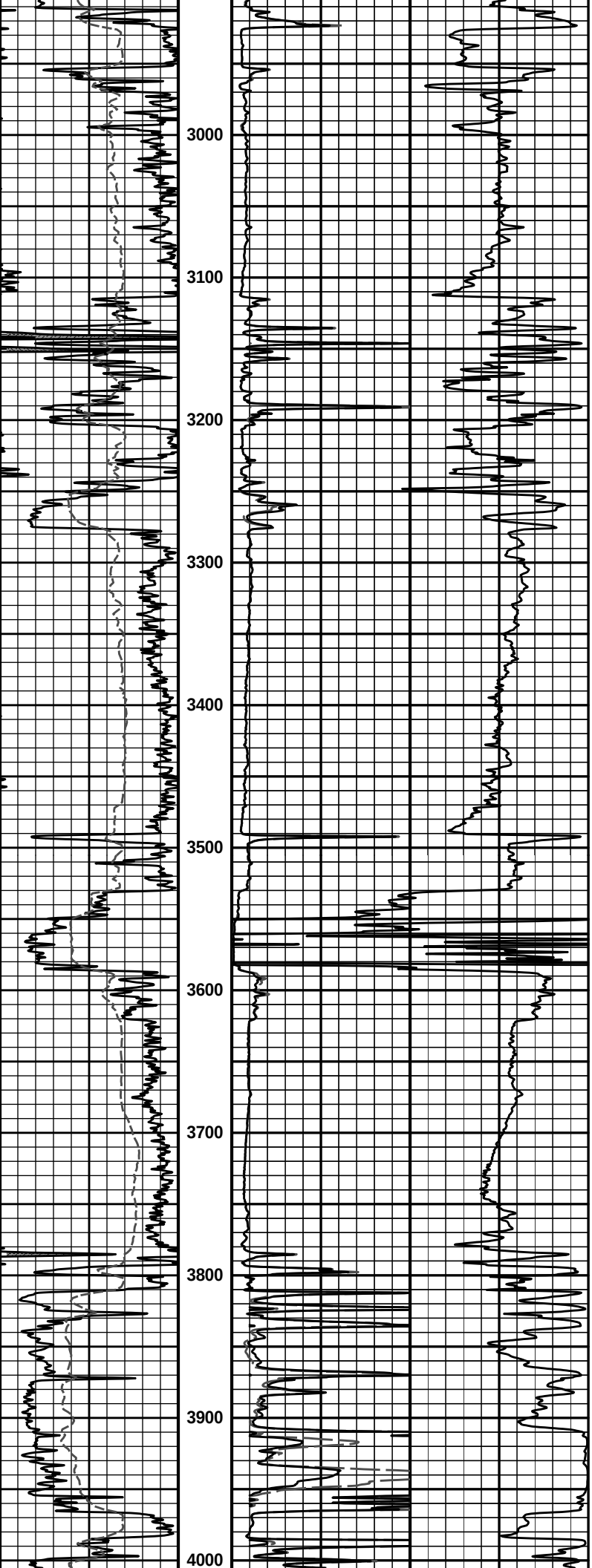
Plot Time: 15-Aug-12 15:19:20
Plot Range: 560 ft to 5160 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004
Plot File: \\-LOCAL-\ACRT\ACRT_1_lib

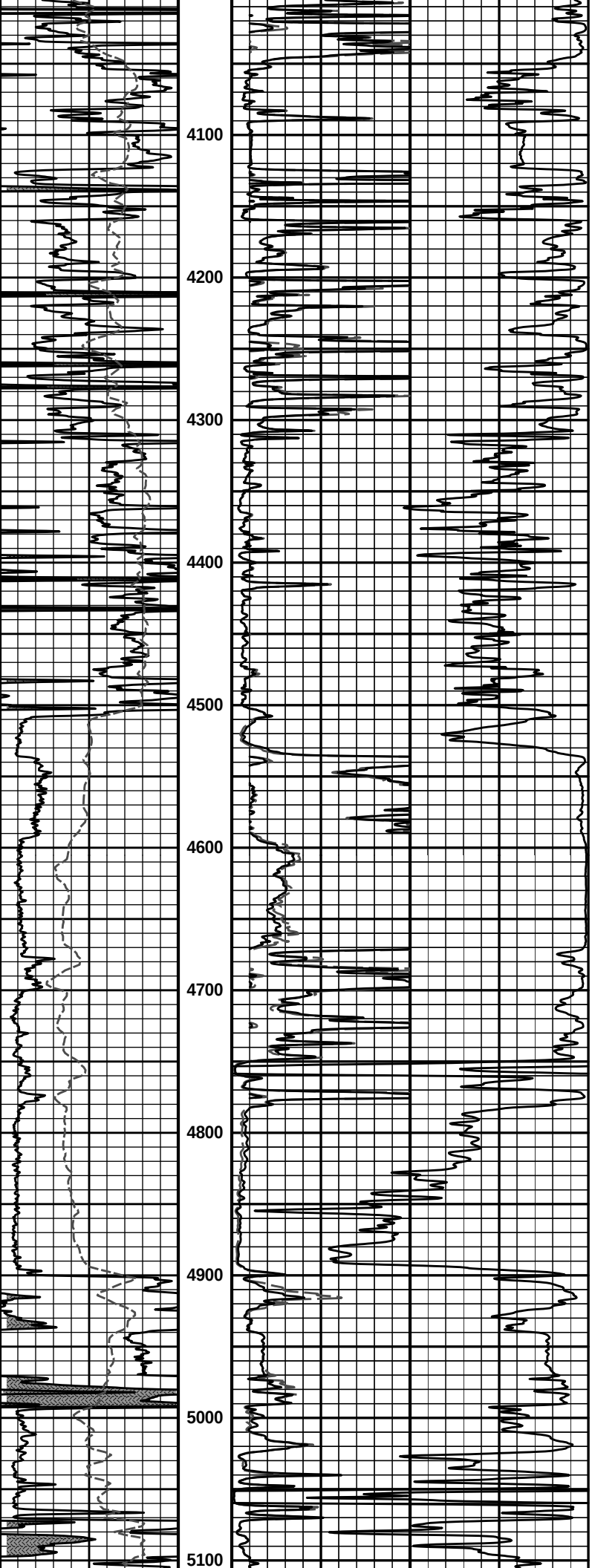
1 INCH MAIN LOG




800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800


1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900


3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000


4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100

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

HALLIBURTON

Plot Time: 15-Aug-12 15:19:22
Plot Range: 560 ft to 5160 ft
Data: KYLIE_ROSE_3305\Well Based\DAQ-0001-004
Plot File: \\-LOCAL-\ACRT\ACRT_1_lib

1 INCH MAIN LOG