DUAL INDUCTION LOG

Company L.D. DRILLING, INC.
Well #1-16 DEBRA
Field WILDCAT
County THOMAS State KANSAS

Company L.D. DRILLING, INC.
Well #1-16 DEBRA
Field WILDCAT
County THOMAS State KANSAS

Location: API # : 15-193-21099-0000
1639' FNL & 458' FWL
SEC 16 TWP 8S RGE 34W

Other Services
CNL/CDL
MEL

Permanent Datum	GROUND LEVEL	Elevation	3228
Log Measured From	KELLY BUSHING 5' A.G.L		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 3233
D.F. 3231
G.L. 3228

Date	2/17/22		
Run Number	ONE		
Depth Driller	4780		
Depth Logger	4780		
Bottom Logged Interval	4778		
Top Log Interval	00		
Casing Driller	8 5/8" @ 370'		
Casing Logger	370'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4600 PPM	
Density / Viscosity	9.4/58		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.95@52F		
Rmf @ Meas. Temp	.71@52F		
Rmc @ Meas. Temp	1.14@52F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.40@123F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	123F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI	TJ DREILING	
Witnessed By	KIM SHOEMAKER		

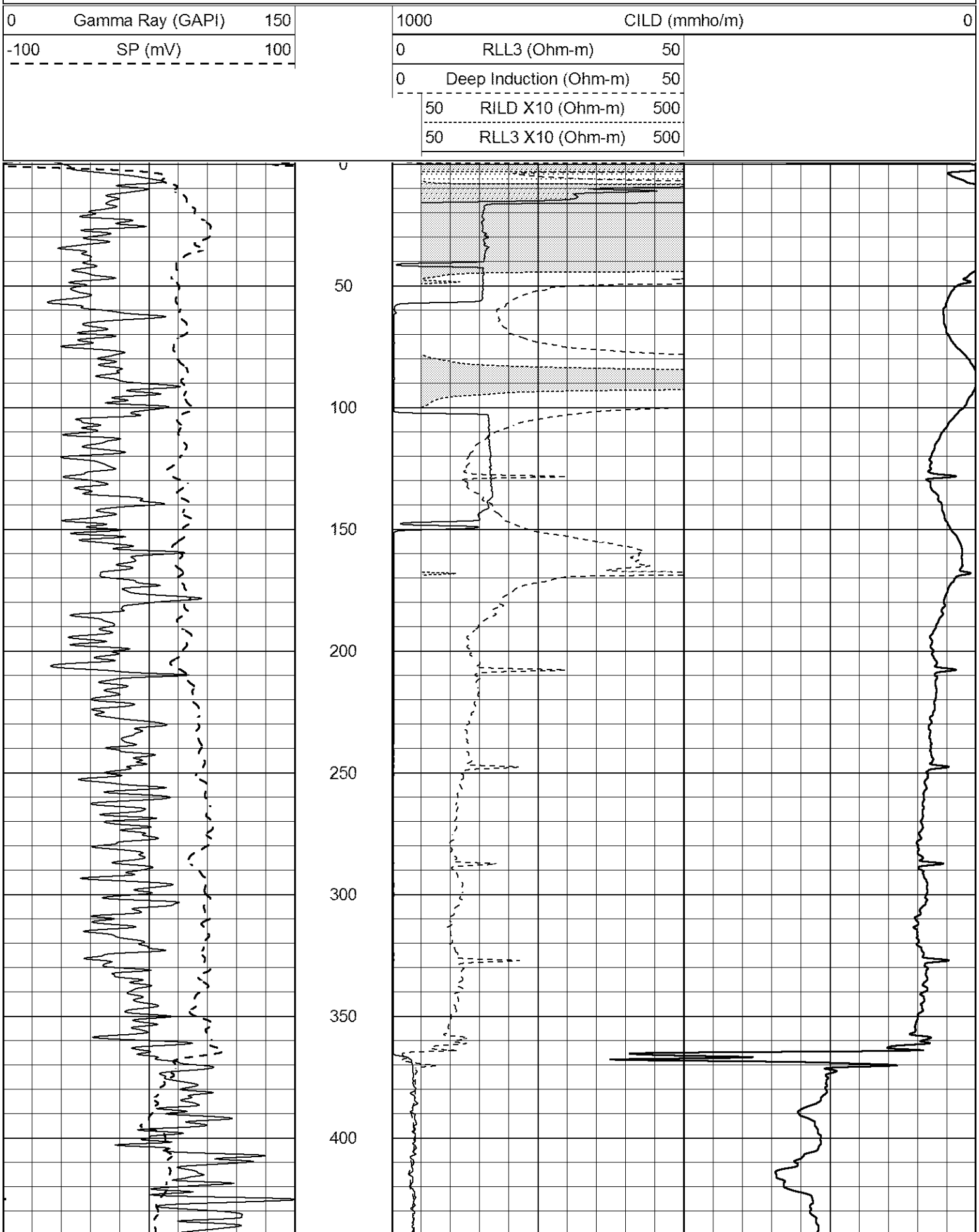
<<< Fold Here >>>

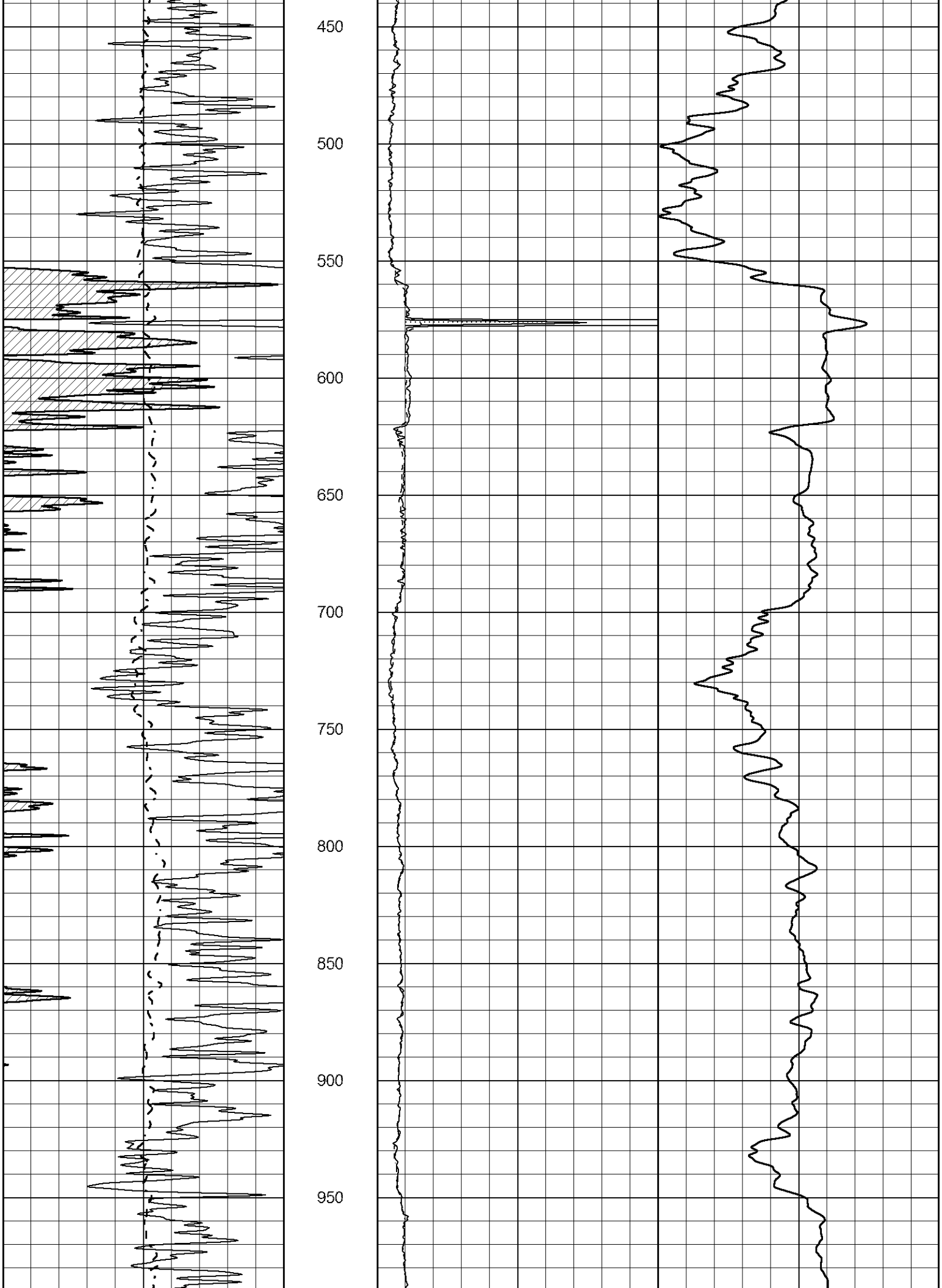
Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
COLBY KANSAS, -1/2 MILE SOUTH ON HIGHWAY 25 TO ROAD "P"
- 4 MILES WEST TO YIELD SIGN, -3/4 MILE NORTH,
-EAST INTO JUST PAST THE FEED YARD

MAIN SECTION

Database File	6241ddn.db
Dataset Pathname	pass3.3
Presentation Format	_dil2
Dataset Creation	Thu Feb 17 13:12:10 2022
Charted by	Depth in Feet scaled 1:600

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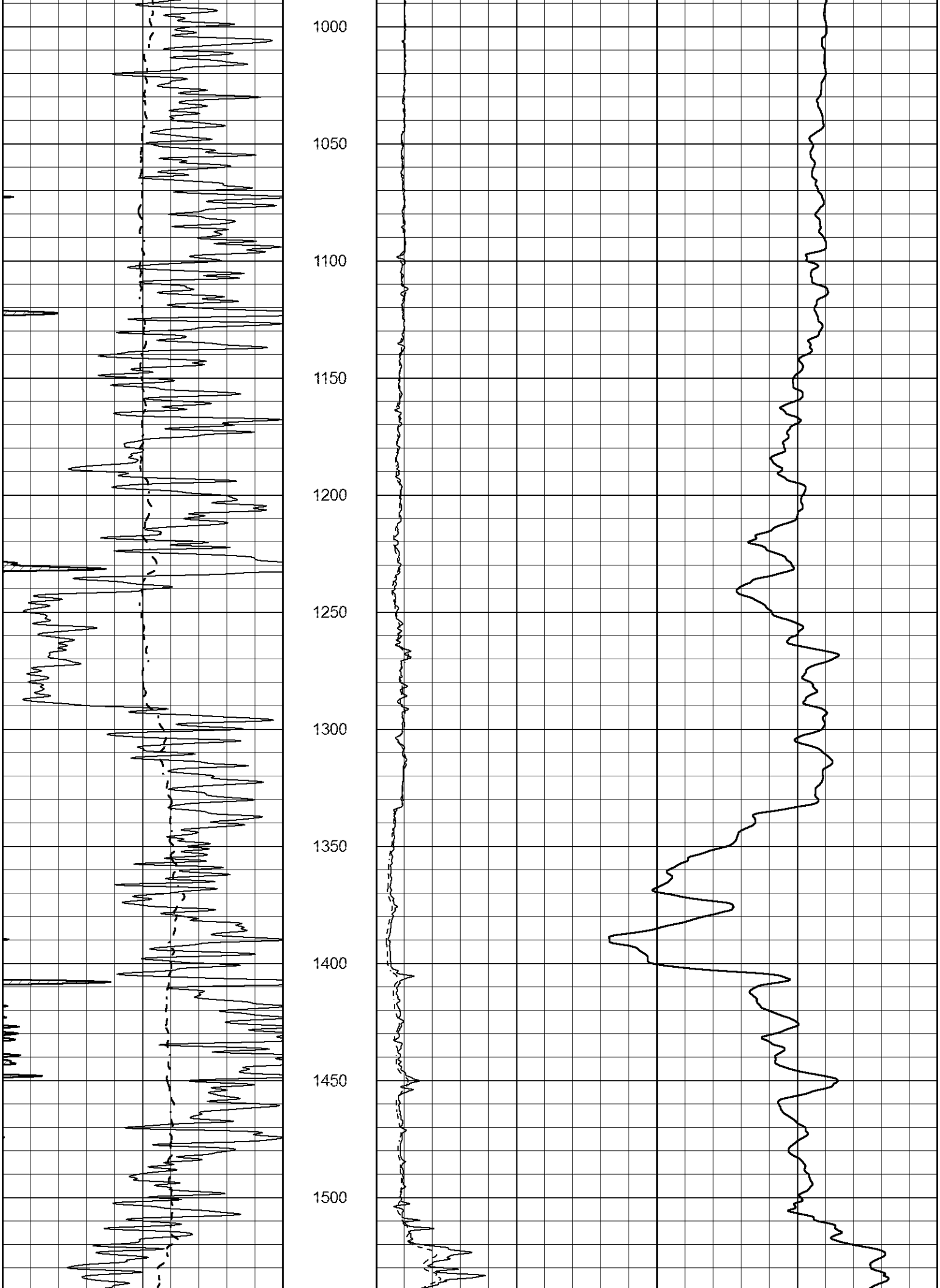
500
550
600
650
700
750
800
850
900
950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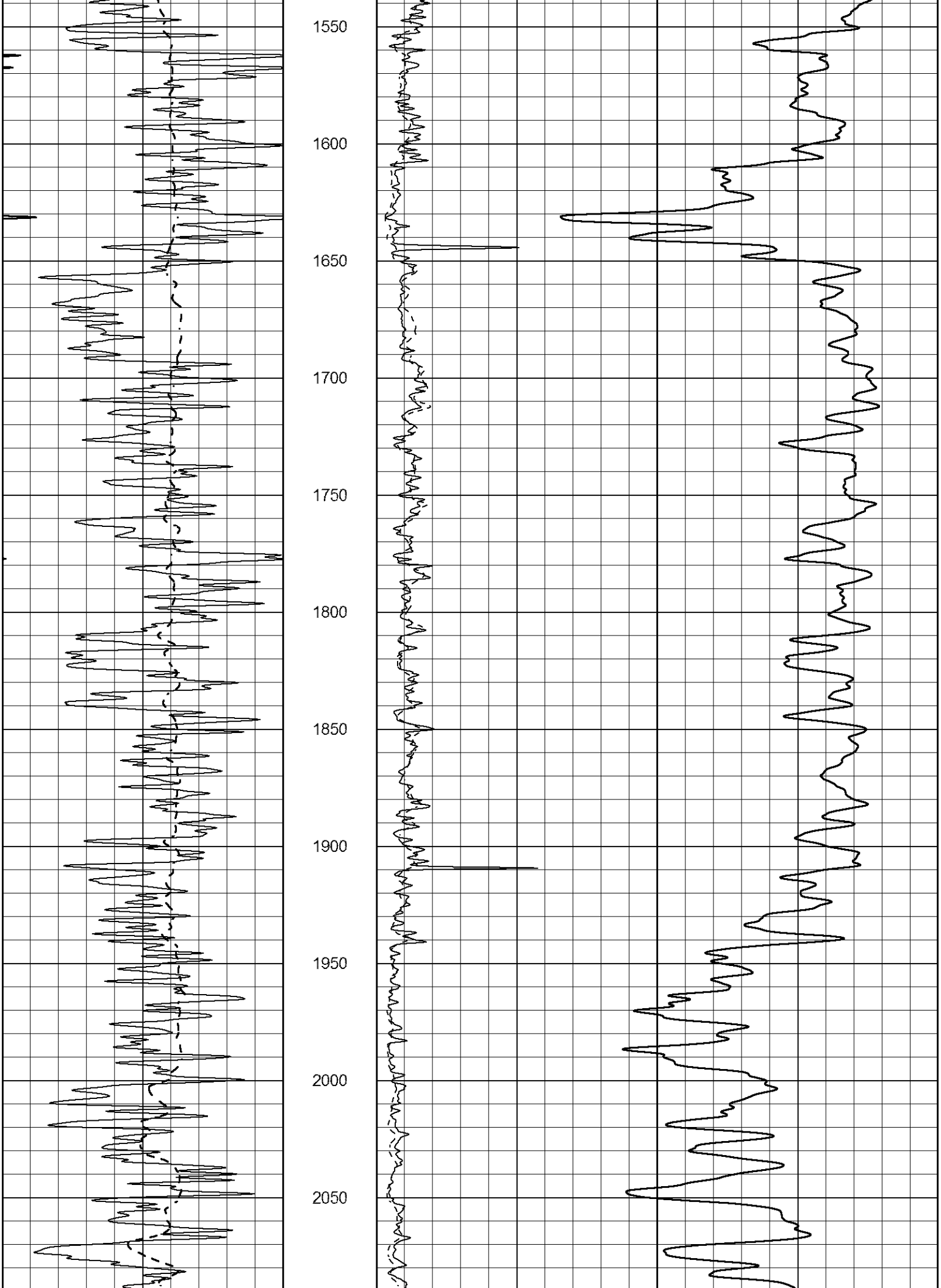
1100
1150
1200
1250
1300
1350
1400
1450
1500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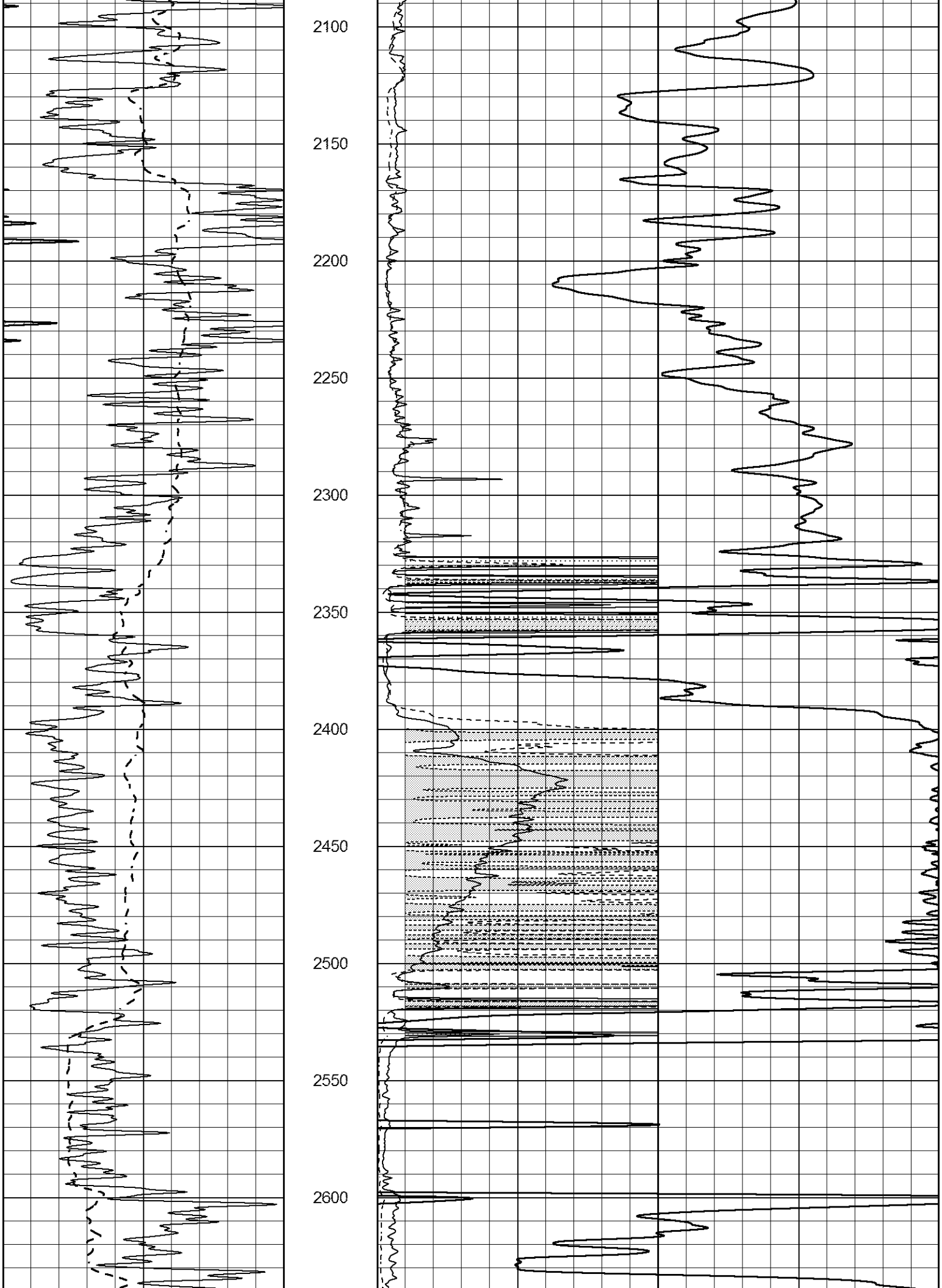
1650
1700
1750
1800
1850
1900
1950
2000
2050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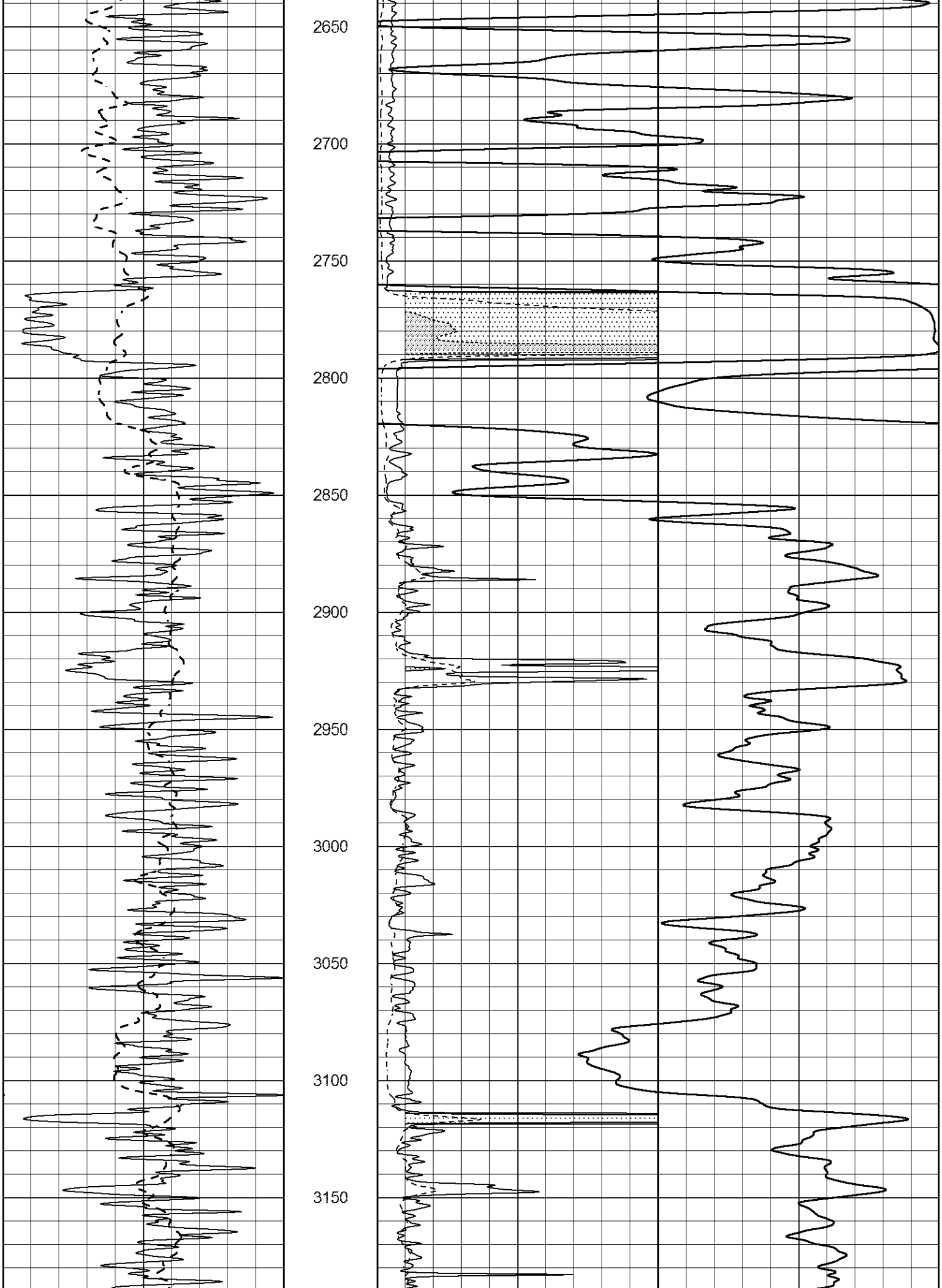
2250
2300
2350
2400
2450
2500
2550
2600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2800
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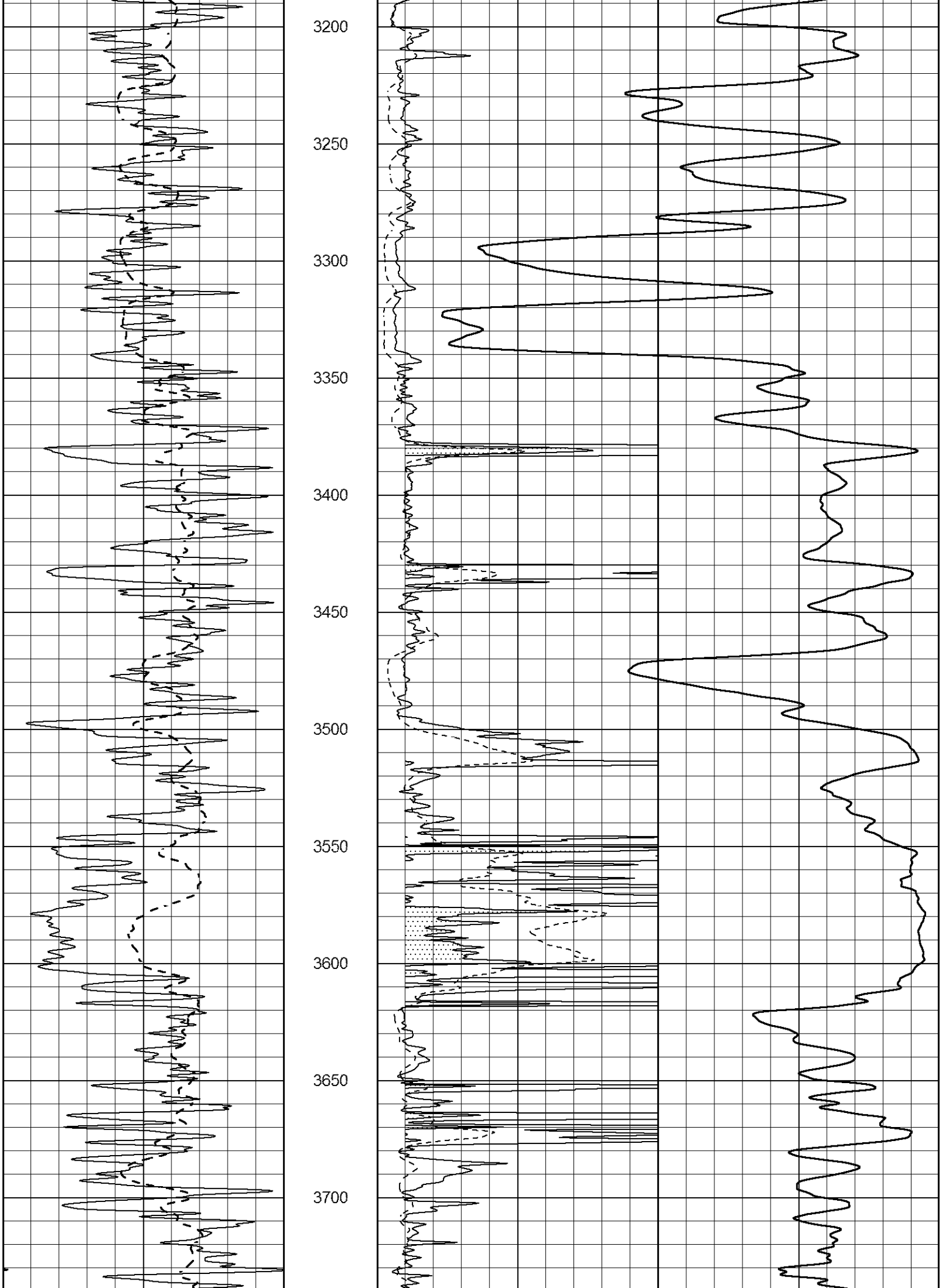
2900
2950
3000
3050
3100
3150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3300
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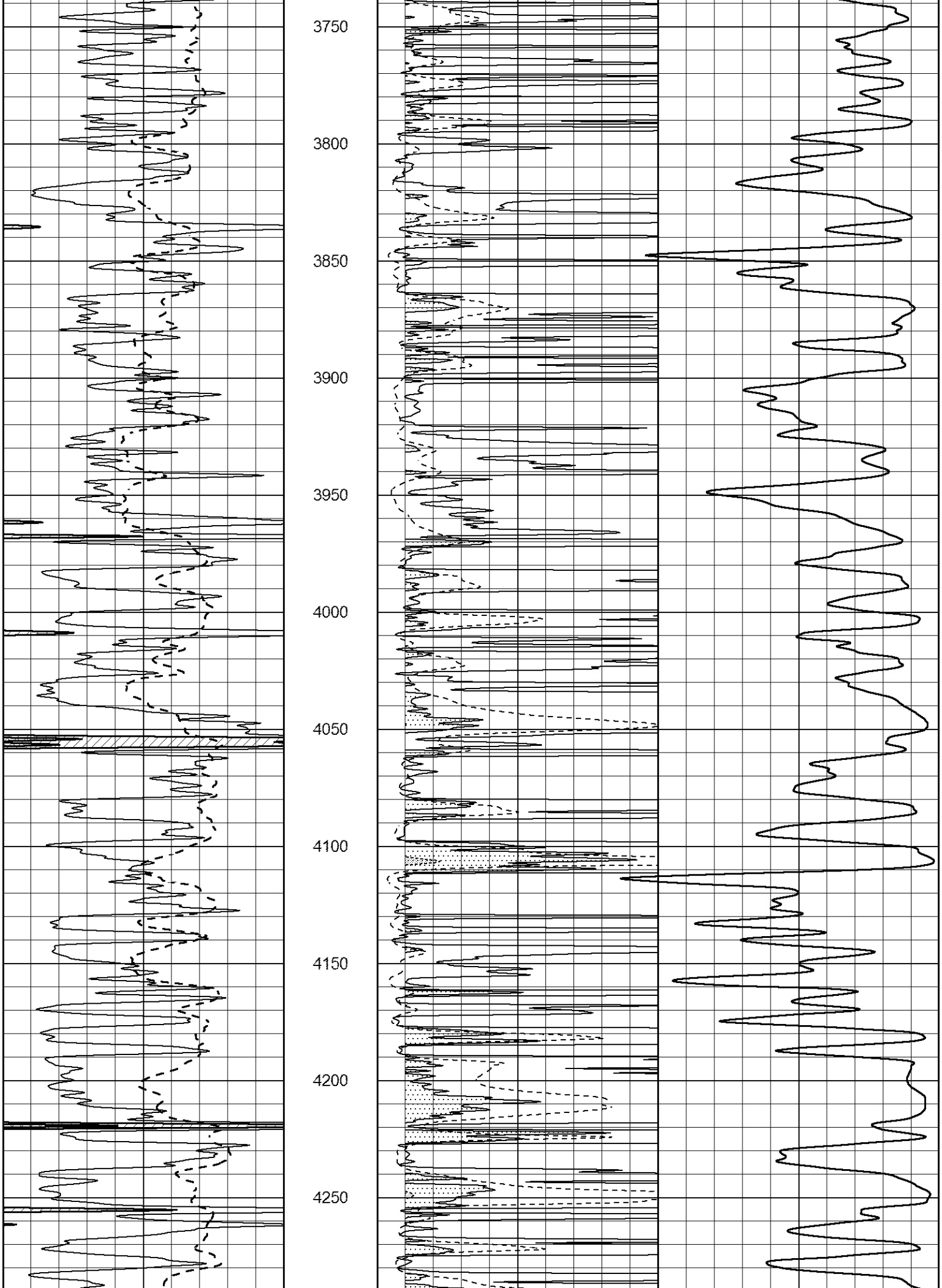
3600
3650
3700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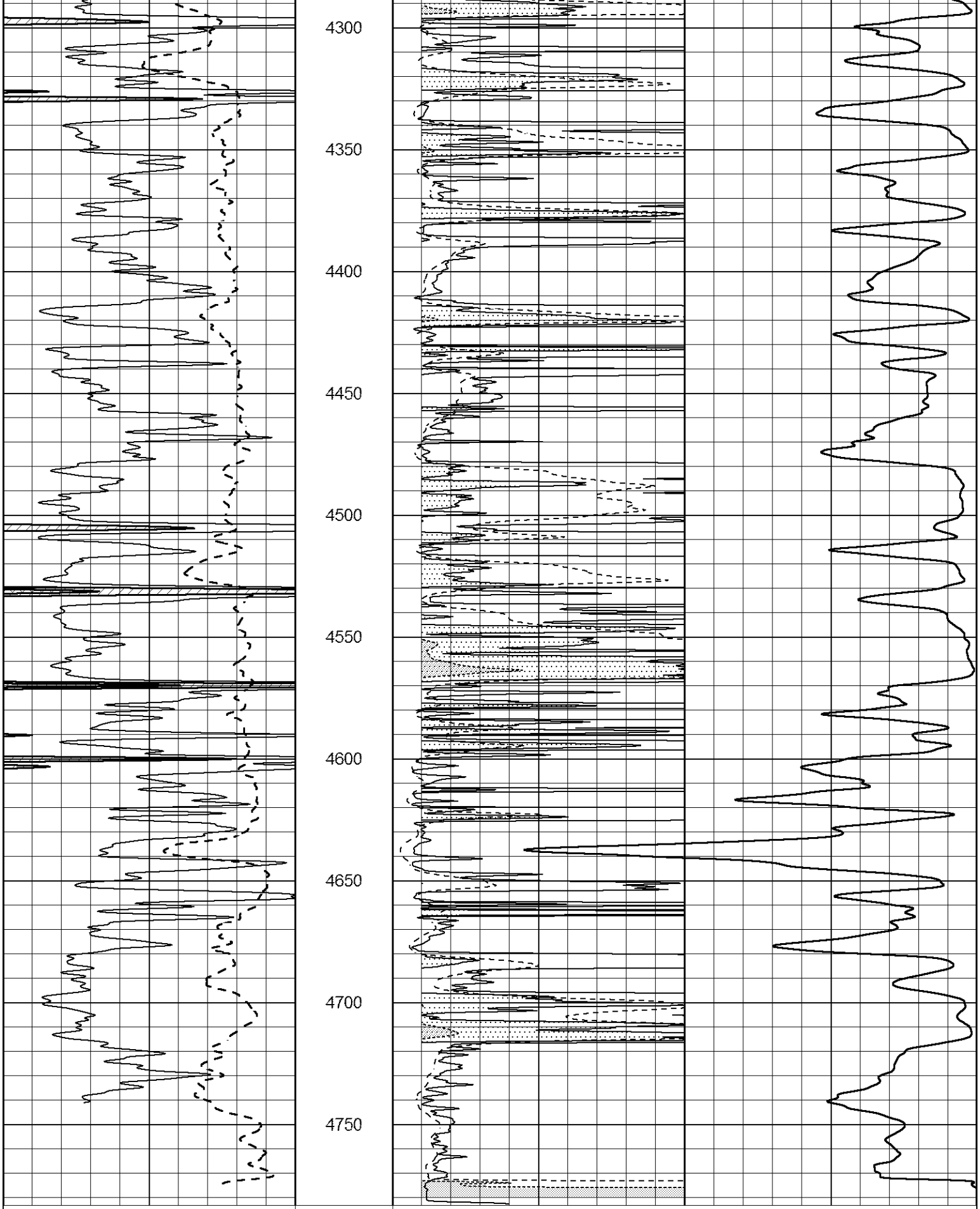
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250

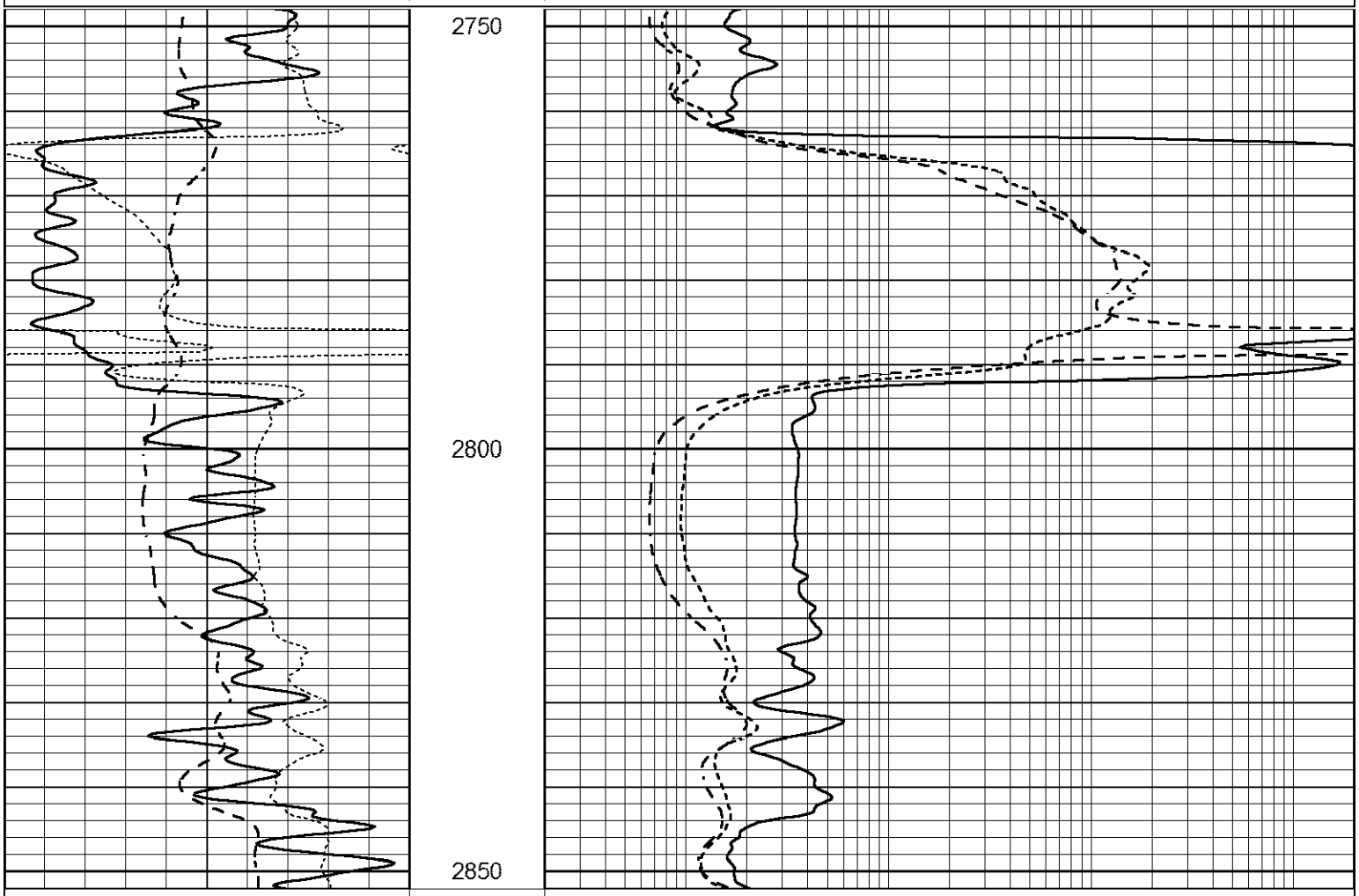

4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
0 Gamma Ray (GAPI) 150
-100 SP (mV) 100
1000 CILD (mmho/m) 0
0 RLL3 (Ohm-m) 50
0 Deep Induction (Ohm-m) 50
50 RILD X10 (Ohm-m) 500
50 RLL3 X10 (Ohm-m) 500

ANHYDRITE

Database File	6241ddn.db
Dataset Pathname	pass3.2
Presentation Format	_dil
Dataset Creation	Thu Feb 17 12:41:22 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

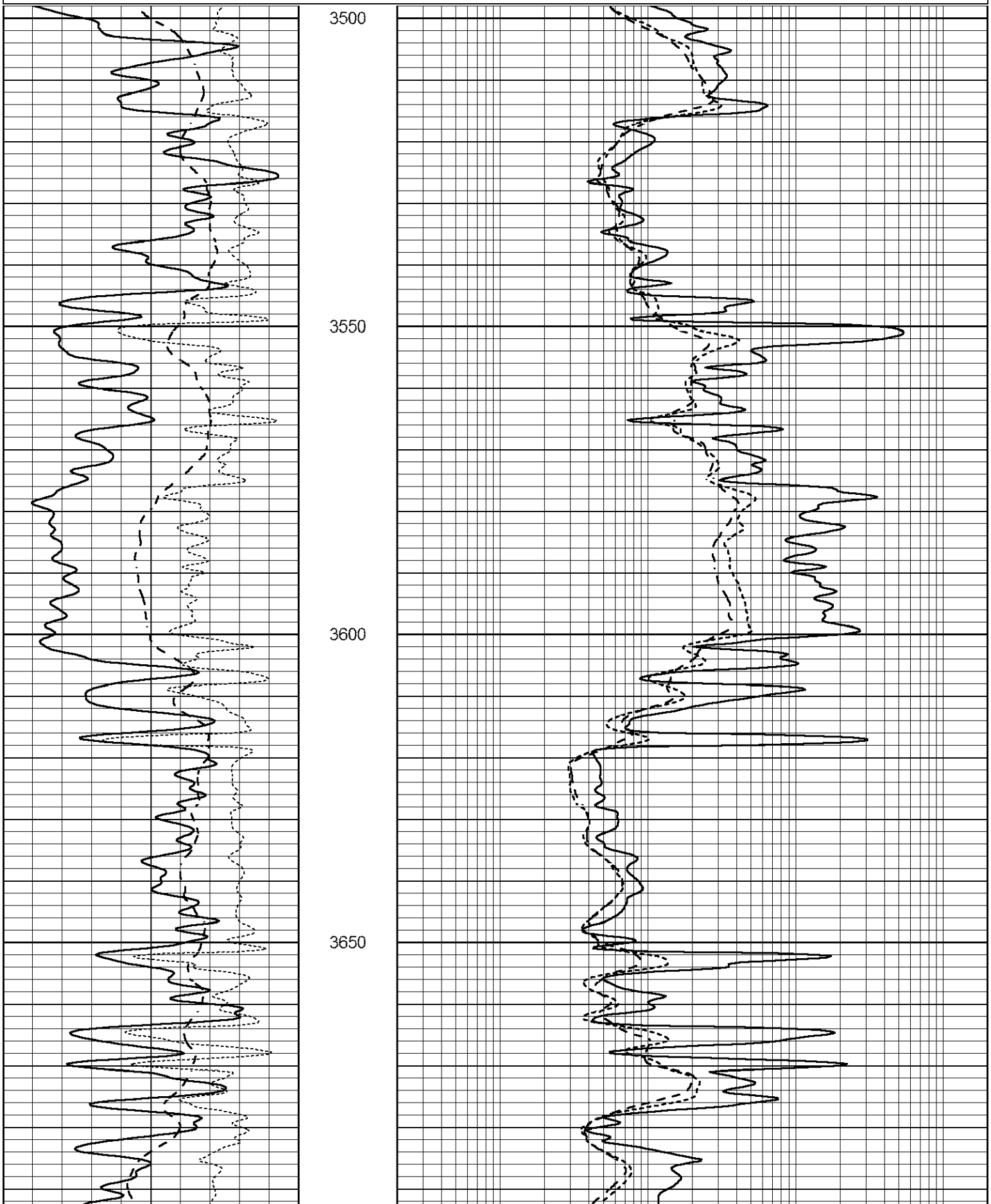
MAIN SECTION

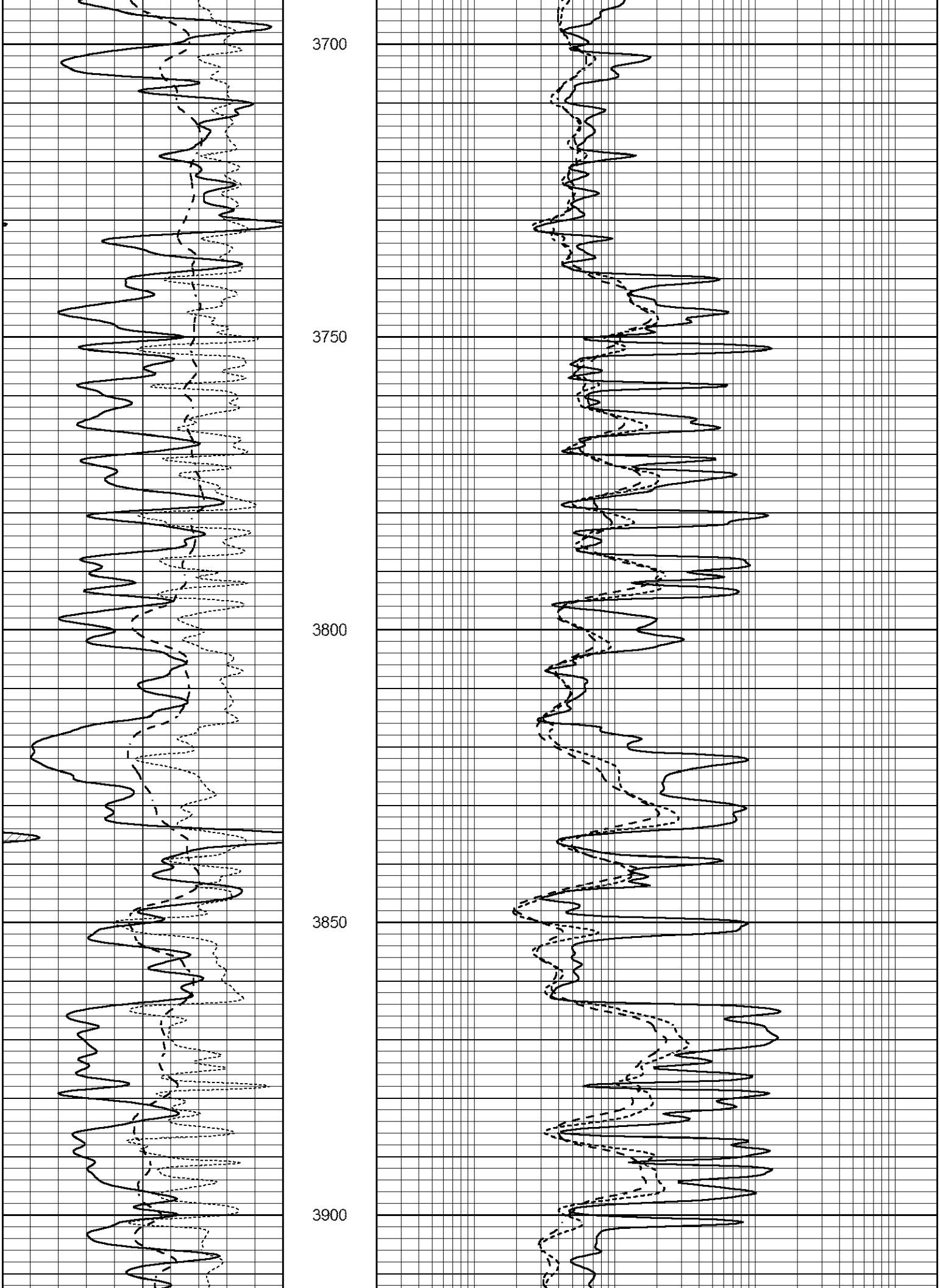
Database File	6241ddn.db
Dataset Pathname	pass3.1
Presentation Format	dil

Dataset Creation	Thu Feb 17 12:31:45 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

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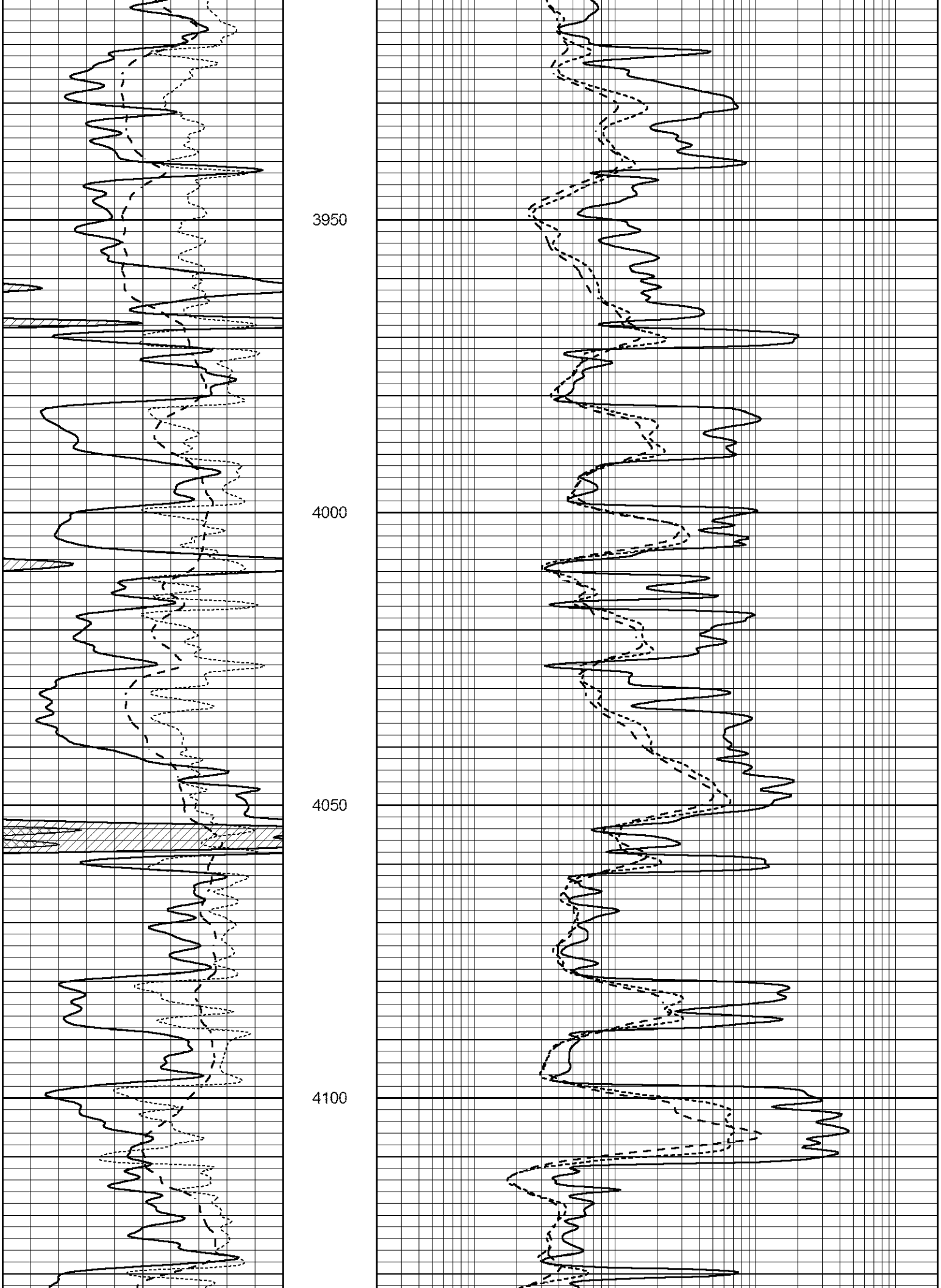
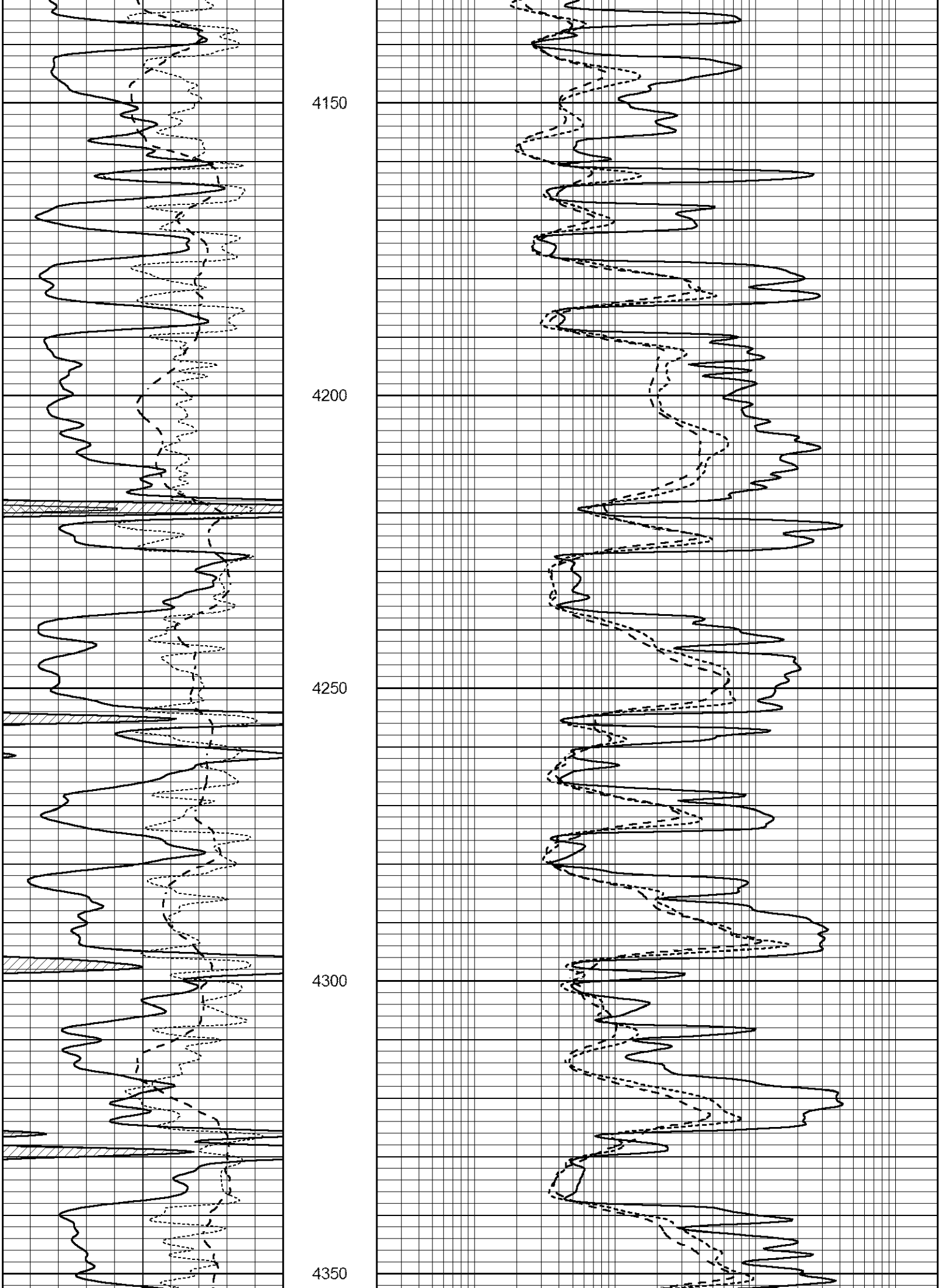
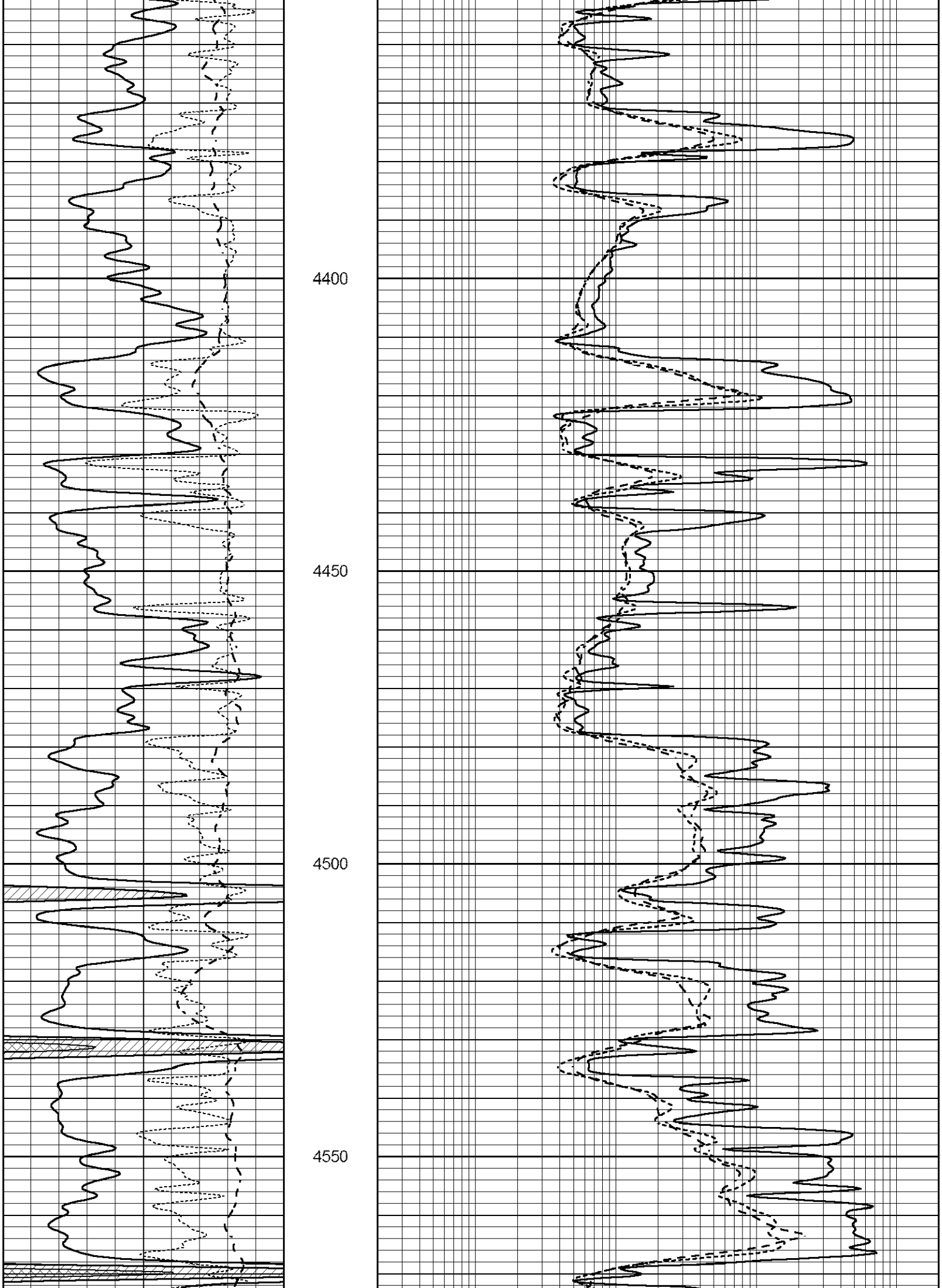
3750
3800
3850
3900


3950
4000
4050
4100


4150
4200
4250
4300
4350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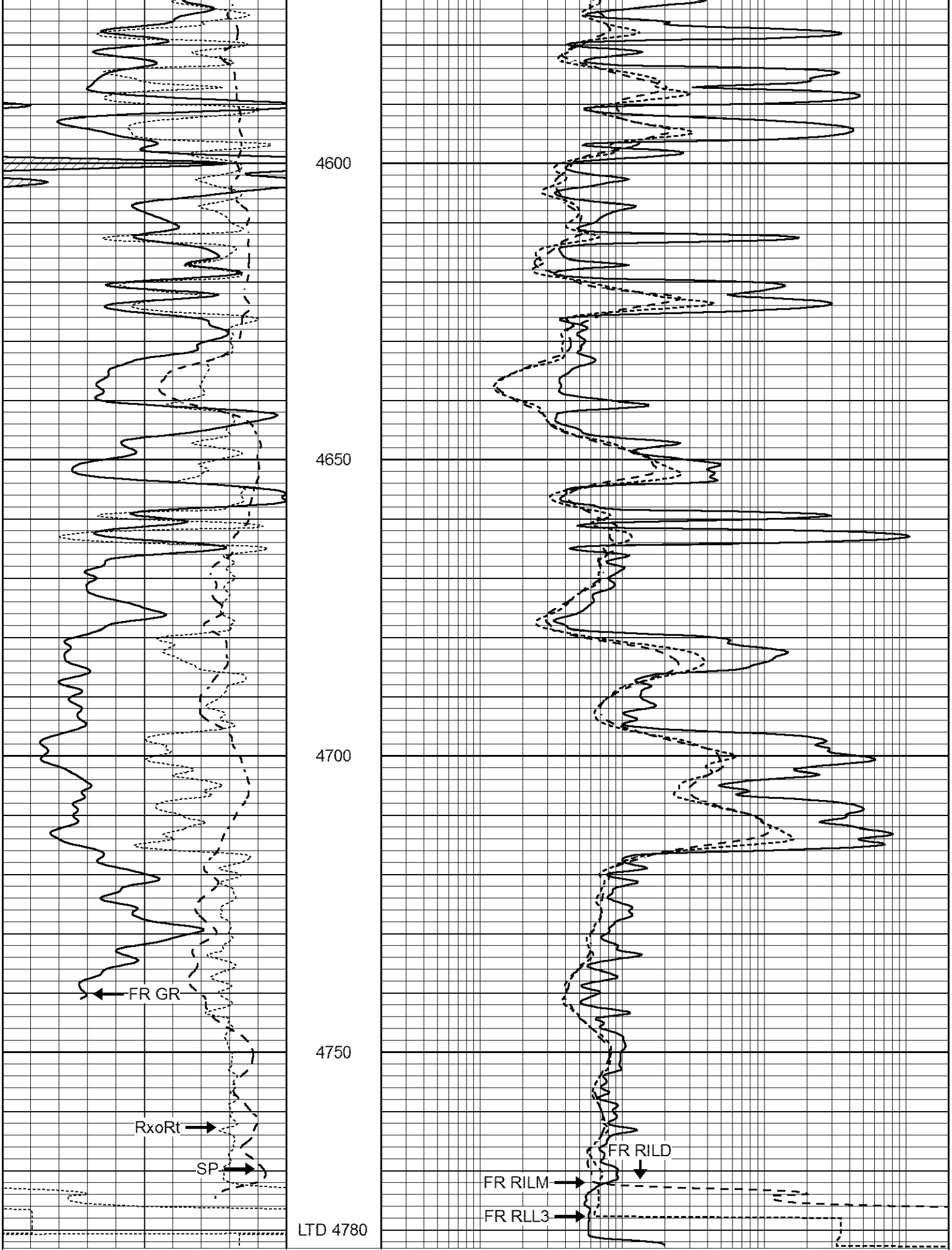
4450
4500
4550

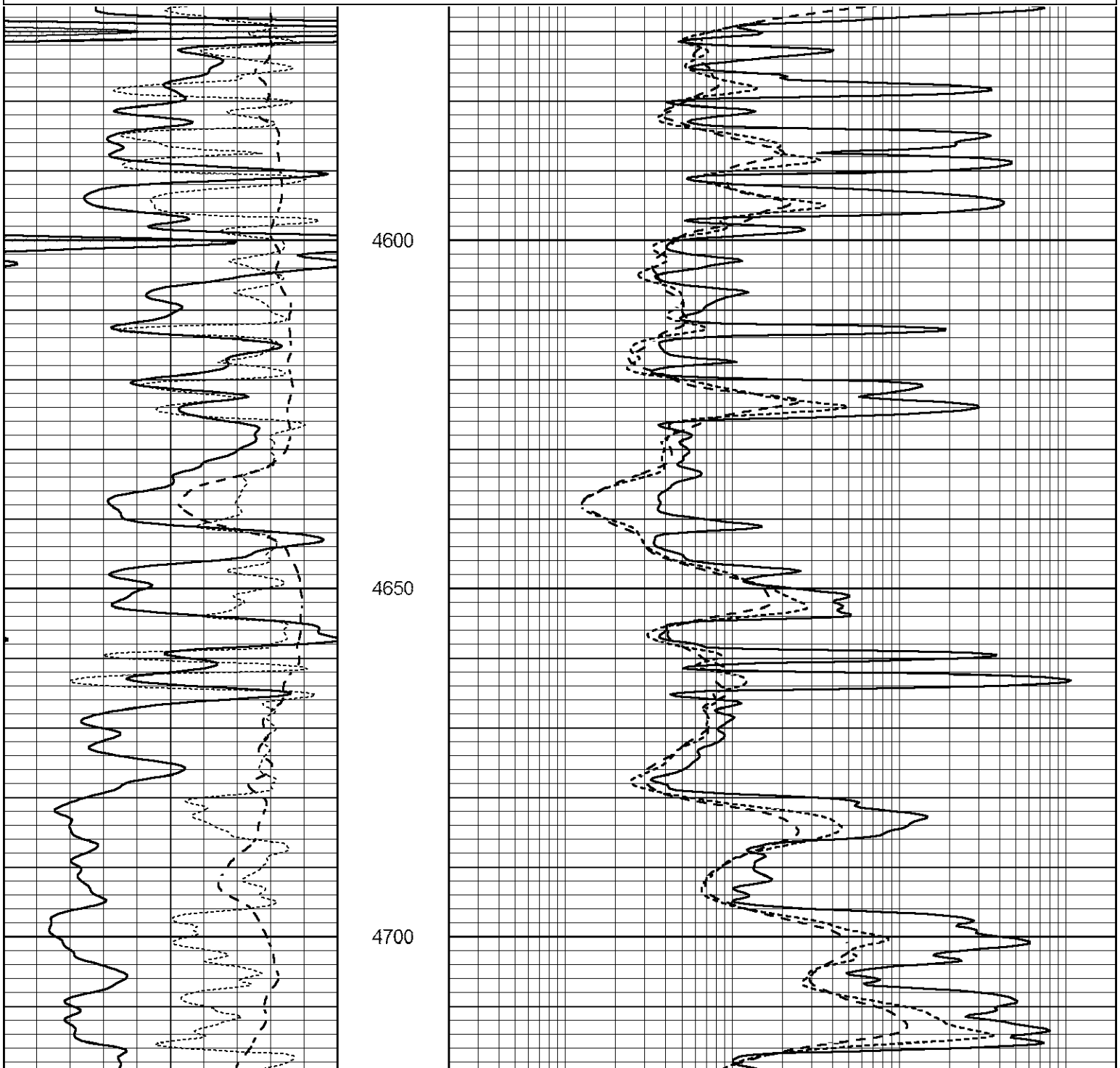

4600
4650
4700
4750
FR GR
RxoRt
SP
LTD 4780
FR RILD
FR RILM
FR RLL3
0
GAMMA RAY (GAPI)
150
-100
SP (mV)
100
0.2
SHALLOW GUARD (Ohm-m)
2000
0.2
MEDIUM INDUCTION (Ohm-m)
2000

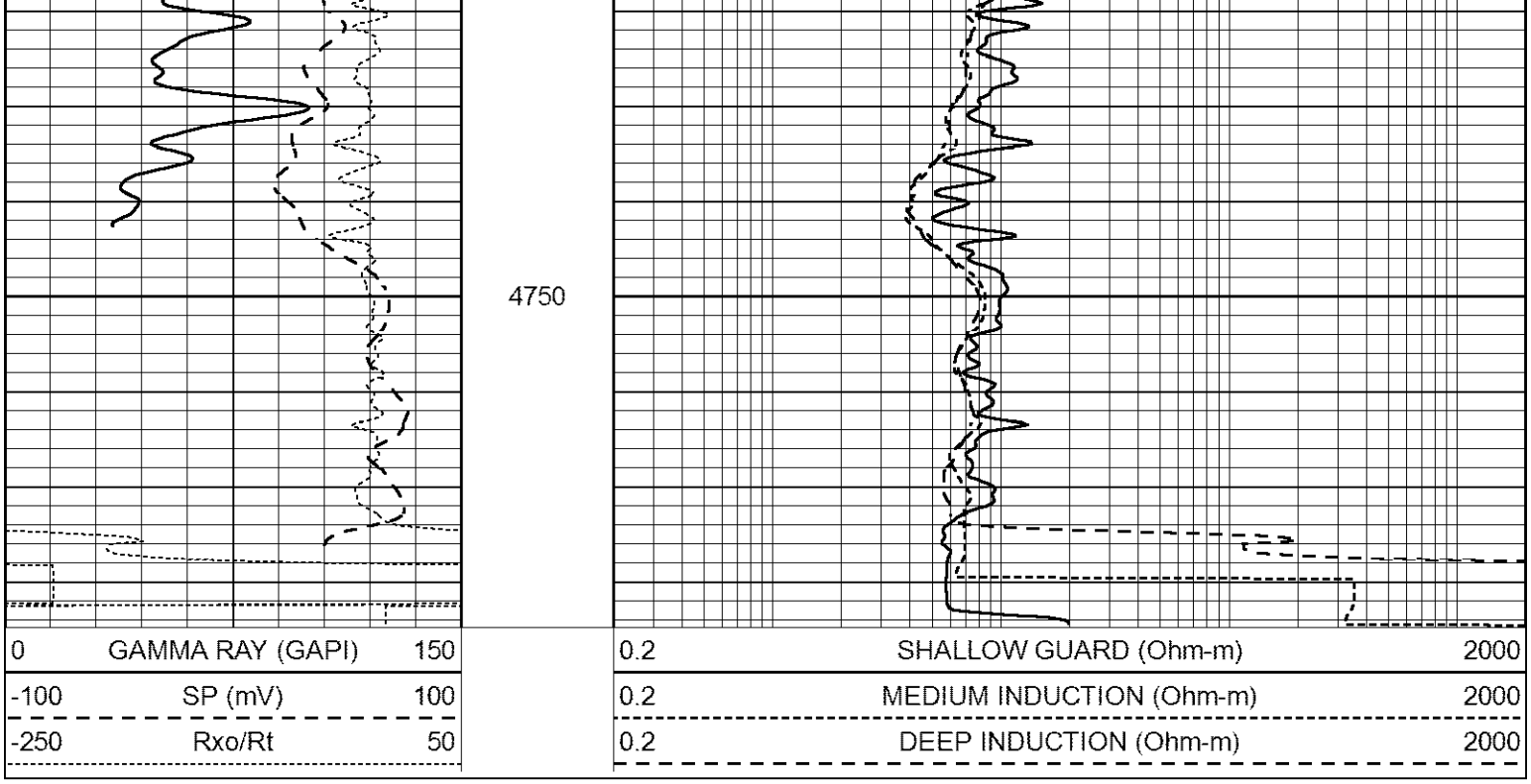
-250	Rxo/Rt	50
0.2	DEEP INDUCTION (Ohm-m)	2000

REPEAT SECTION

Database File	6241ddn.db
Dataset Pathname	pass2.1
Presentation Format	_dil
Dataset Creation	Thu Feb 17 12:13:09 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000





Calibration Report

Database File	6241ddn.db
Dataset Pathname	pass3.2
Dataset Creation	Thu Feb 17 12:41:22 2022

Dual Induction Calibration Report

Serial-Model:	FW1410-56-Probe
Surface Cal Performed:	Mon Jun 15 22:52:02 2020
Downhole Cal Performed:	Tue Jul 25 12:15:37 2017
After Survey Verification Performed:	Tue Jul 25 12:15:38 2017

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		

After Survey Verification

	Readings		Targets		Results	
	Zero	Cal	Zero	Cal	m'	b'

Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Compensated Neutron Calibration Report

Serial Number: 080621PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 7
Tool Model: Probe1
Performed: Tue Jan 19 17:50:08 2021

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps