DUAL INDUCTION LOG

Company RL INVESTMENT, LLC.
Well PRATT #3
Field HOXIE WEST
County SHERIDAN
State KANSAS

Company RL INVESTMENT, LLC.
Well PRATT #3
Field HOXIE WEST
County SHERIDAN State KANSAS

Location: API # : 15-179-20196-0001
2086' FSL & 554' FWL
SEC 35 TWP 8S RGE 29W

Other Services
CDL/CNL
MEL

Permanent Datum	GROUND LEVEL	Elevation	2810
Log Measured From	KELLY BUSHING 7' A.G.L		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 2817
D.F. 2815
G.L. 2810

Date	8/24/18		
Run Number	ONE		
Depth Driller	4460		
Depth Logger	4460		
Bottom Logged Interval	4458		
Top Log Interval	00		
Casing Driller	8 5/8" @ 224		
Casing Logger	224		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 900 PPM	
Density / Viscosity	8.6/57		
pH / Fluid Loss	11.5/7.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.2 @ 95F		
Rmf @ Meas. Temp	.90 @ 95F		
Rmc @ Meas. Temp	1.4 @ 95F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.95 @ 120F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	120F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	RICHARD BELL		

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Comments

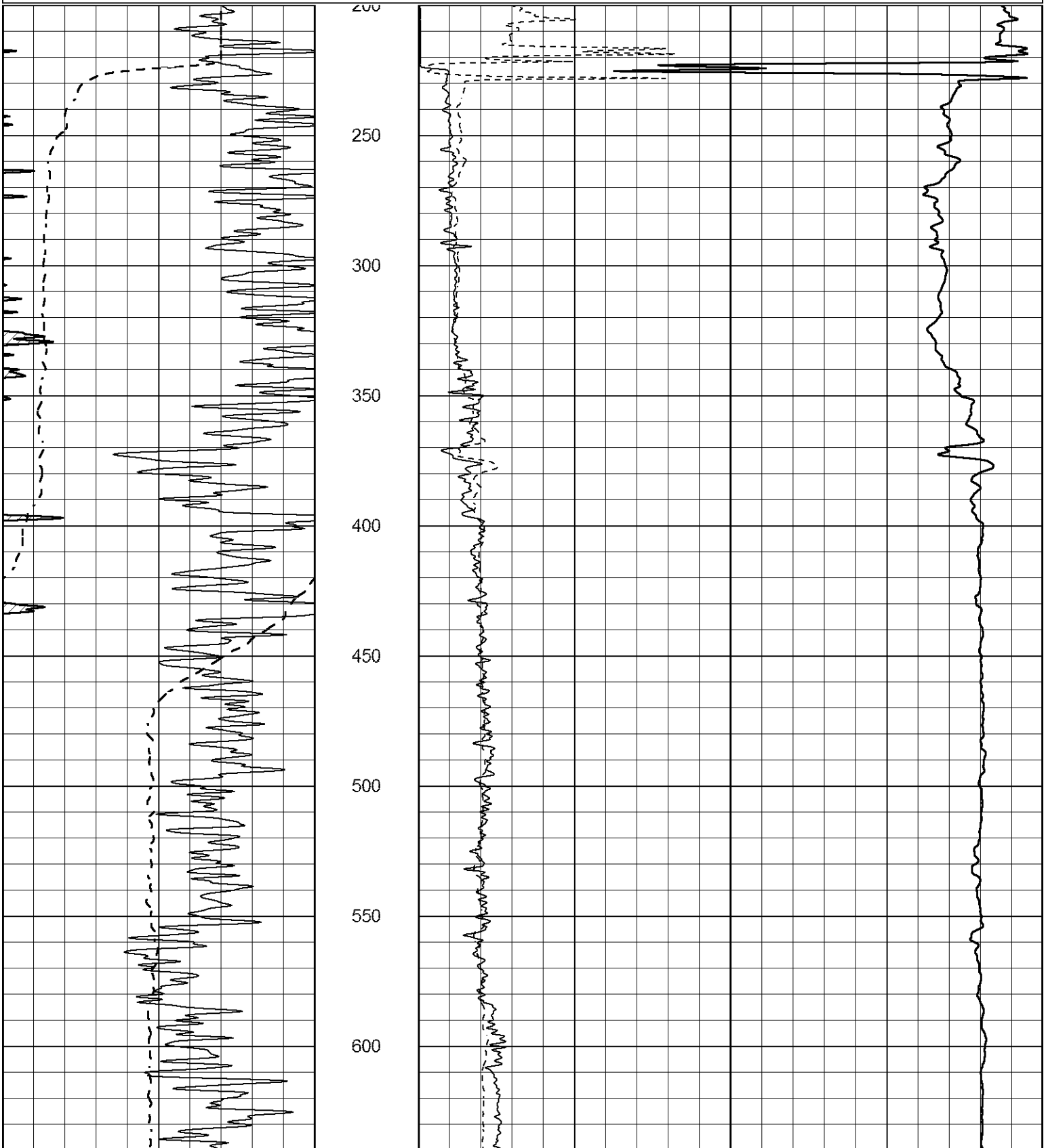
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
HOXIE, KS. - 2 SOUTH TO RD. 30 - 5 WEST TO RD. 50 - 1/2 SOUTH - EAST INTO

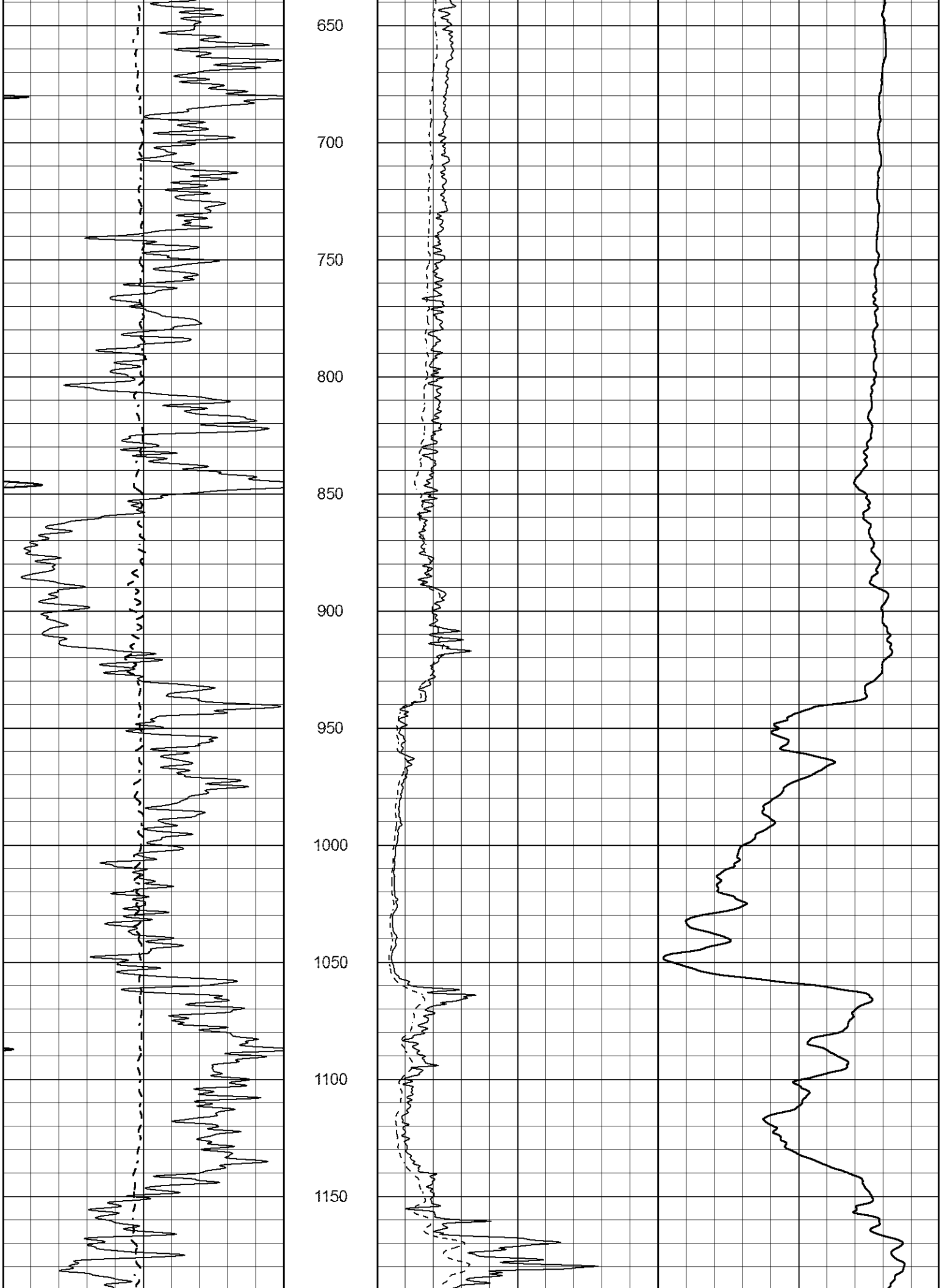
MAIN SECTION

Database File	2523ddn8.db
Dataset Pathname	pass3.3
Presentation Format	_dil2
Dataset Creation	Fri Aug 24 15:36:31 2018
Charted by	Depth in Feet scaled 1:600

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

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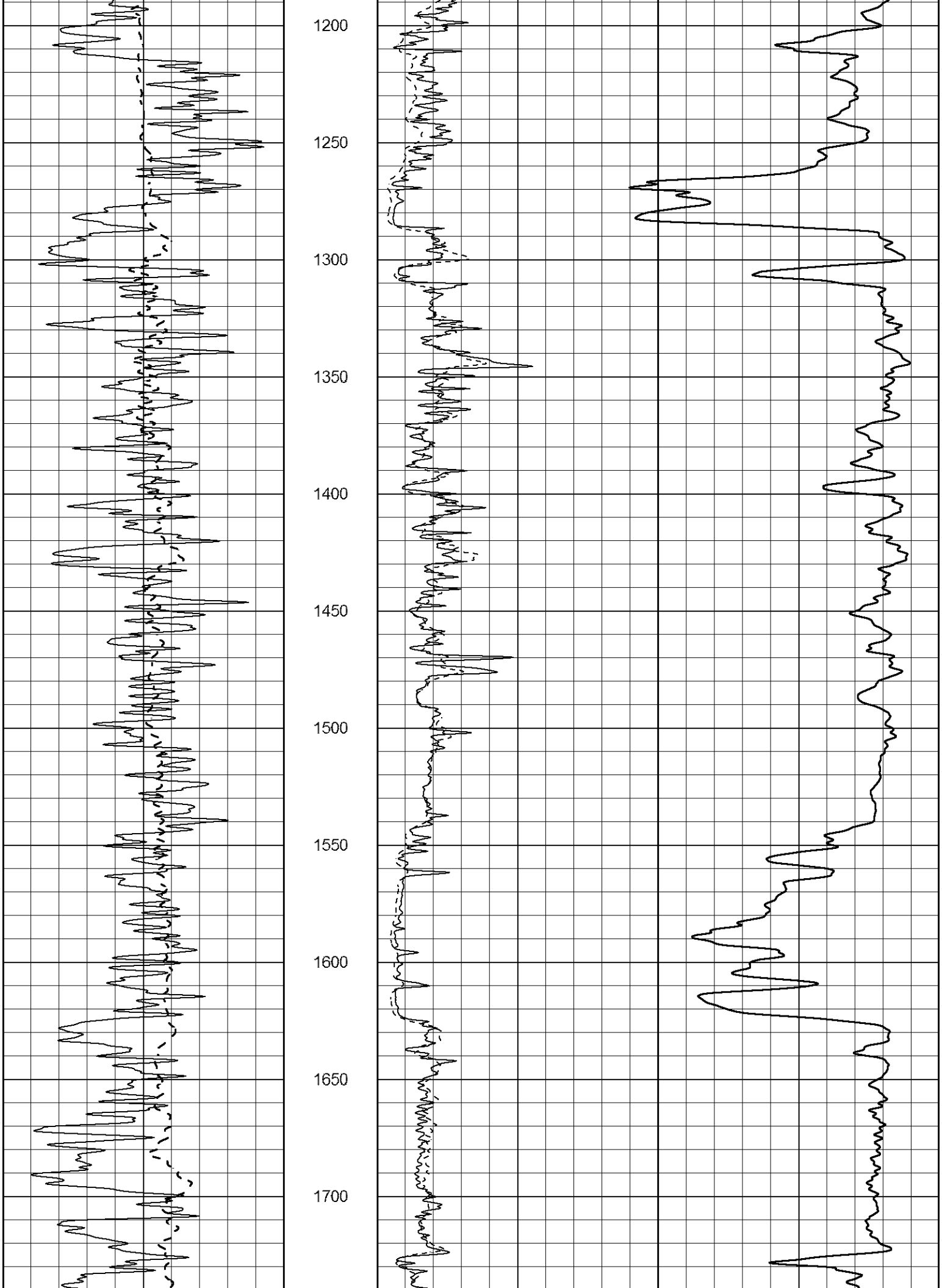
700
750
800
850
900
950
1000
1050
1100
1150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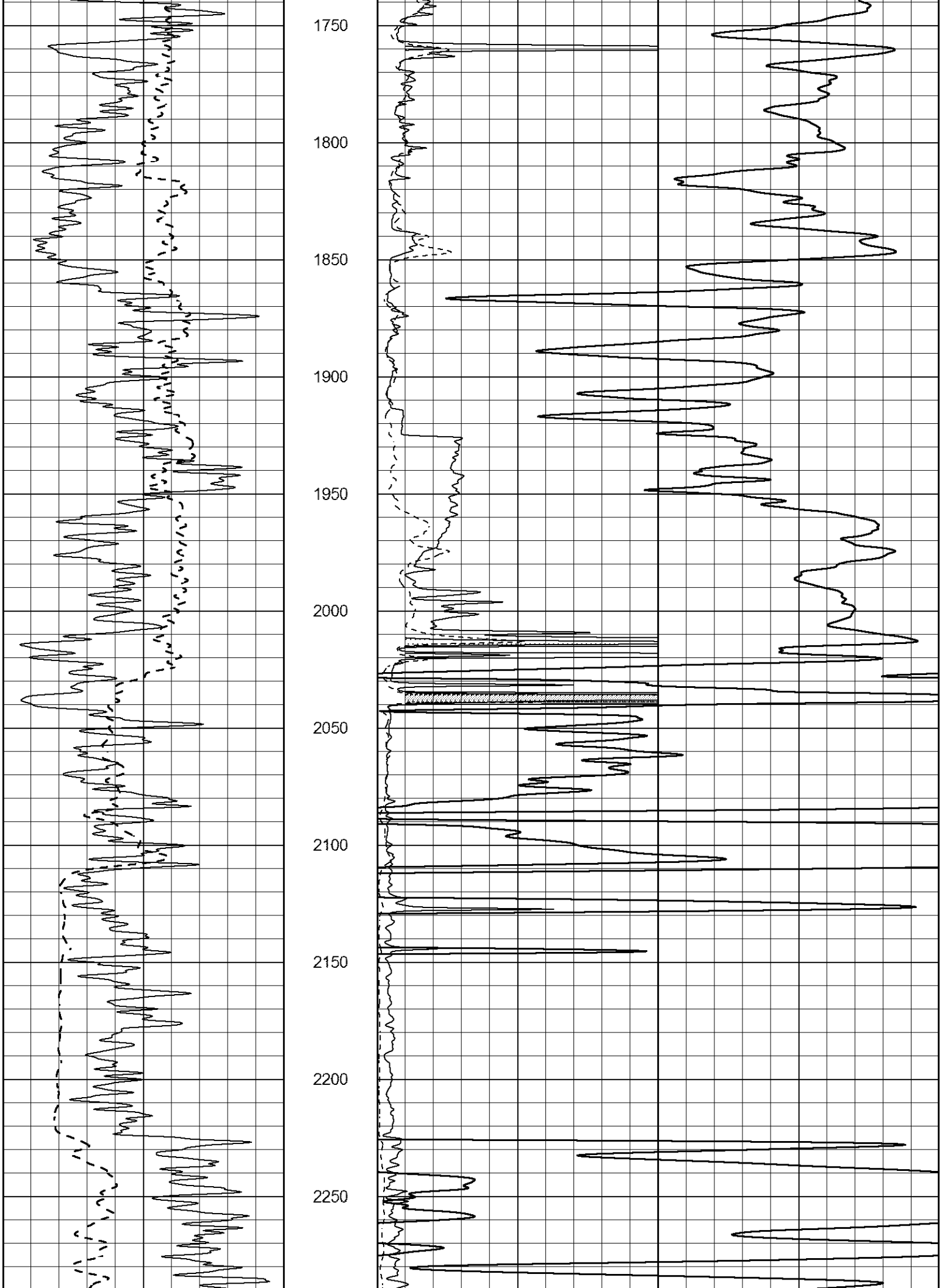
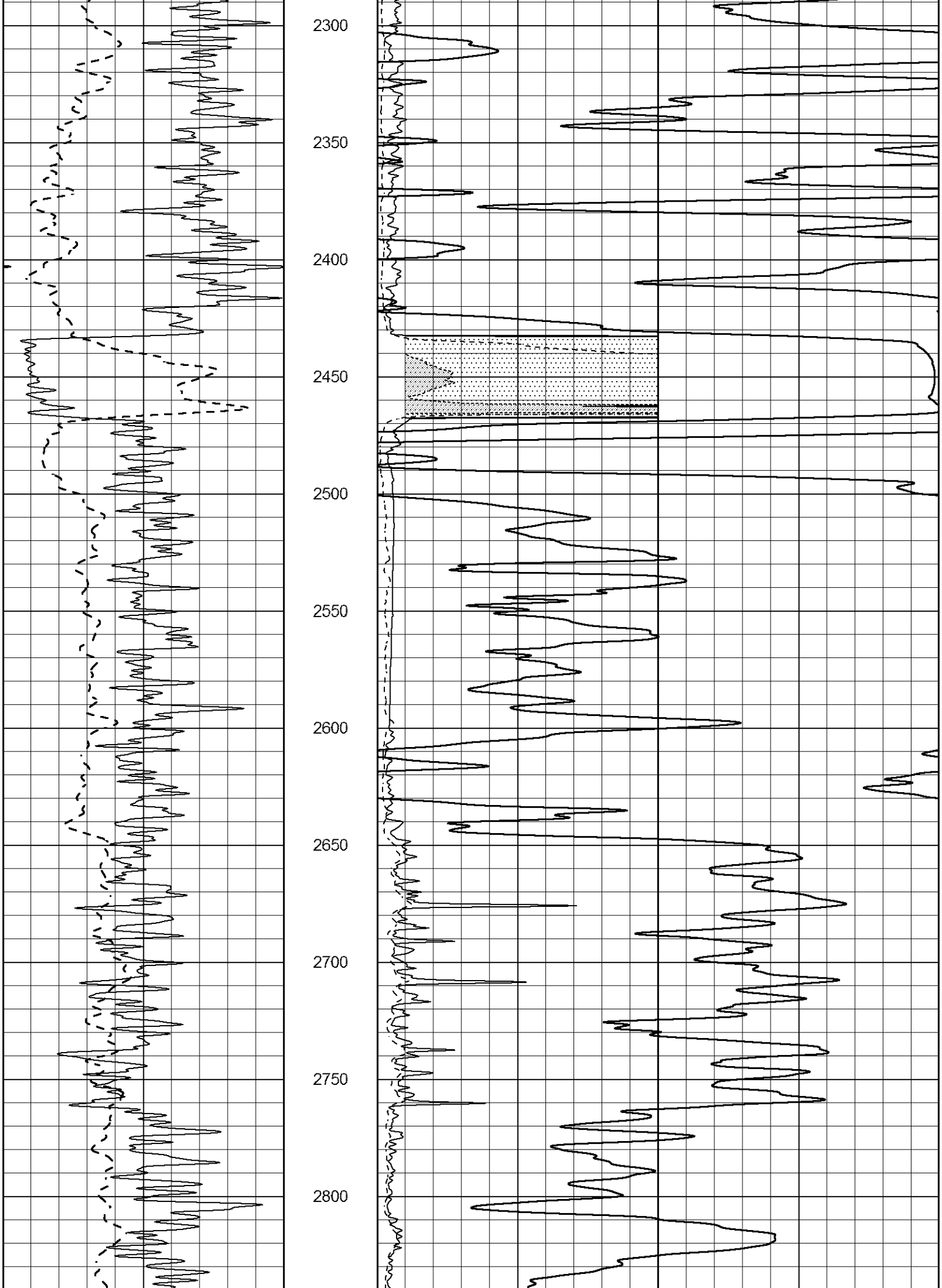
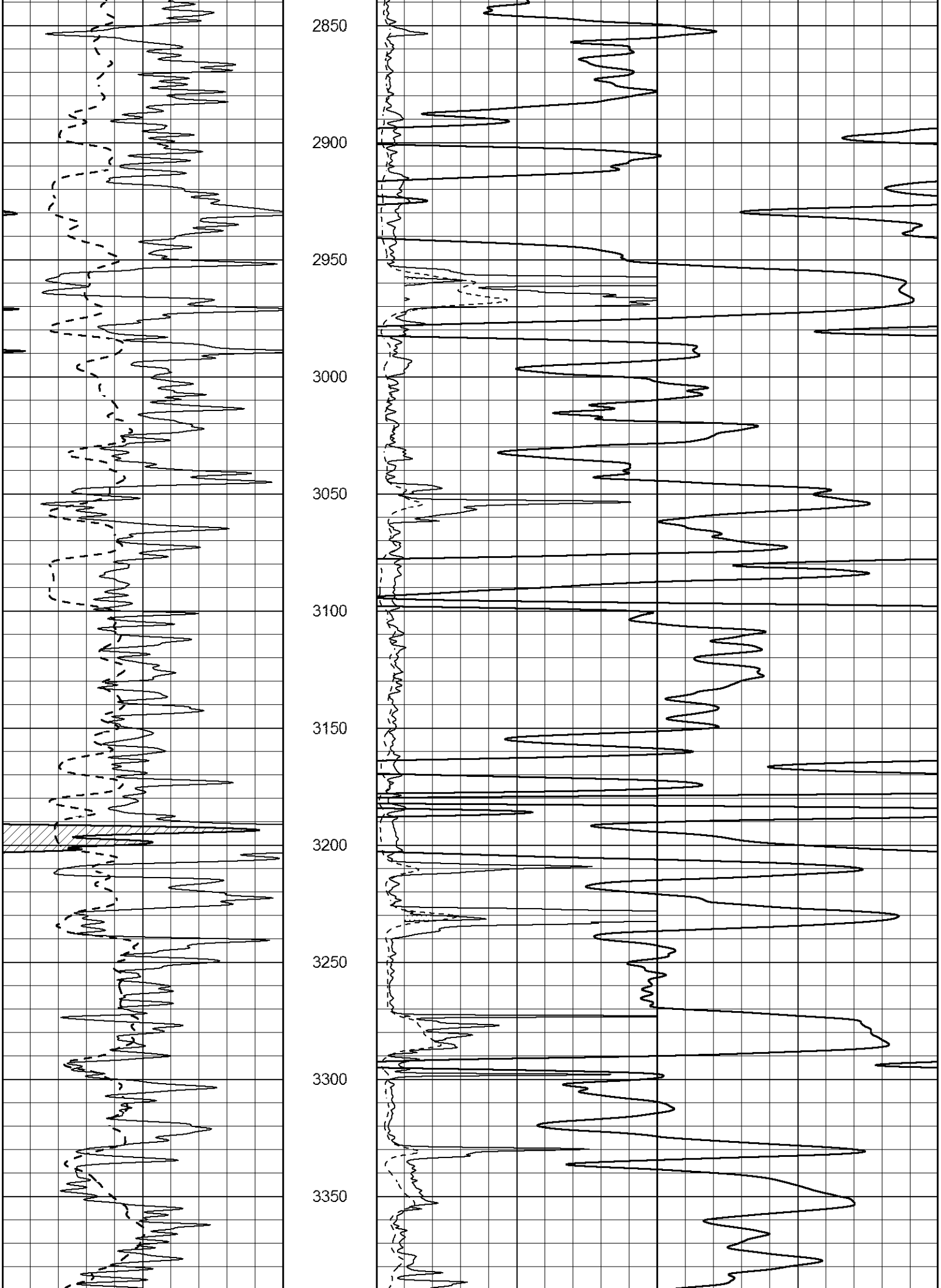
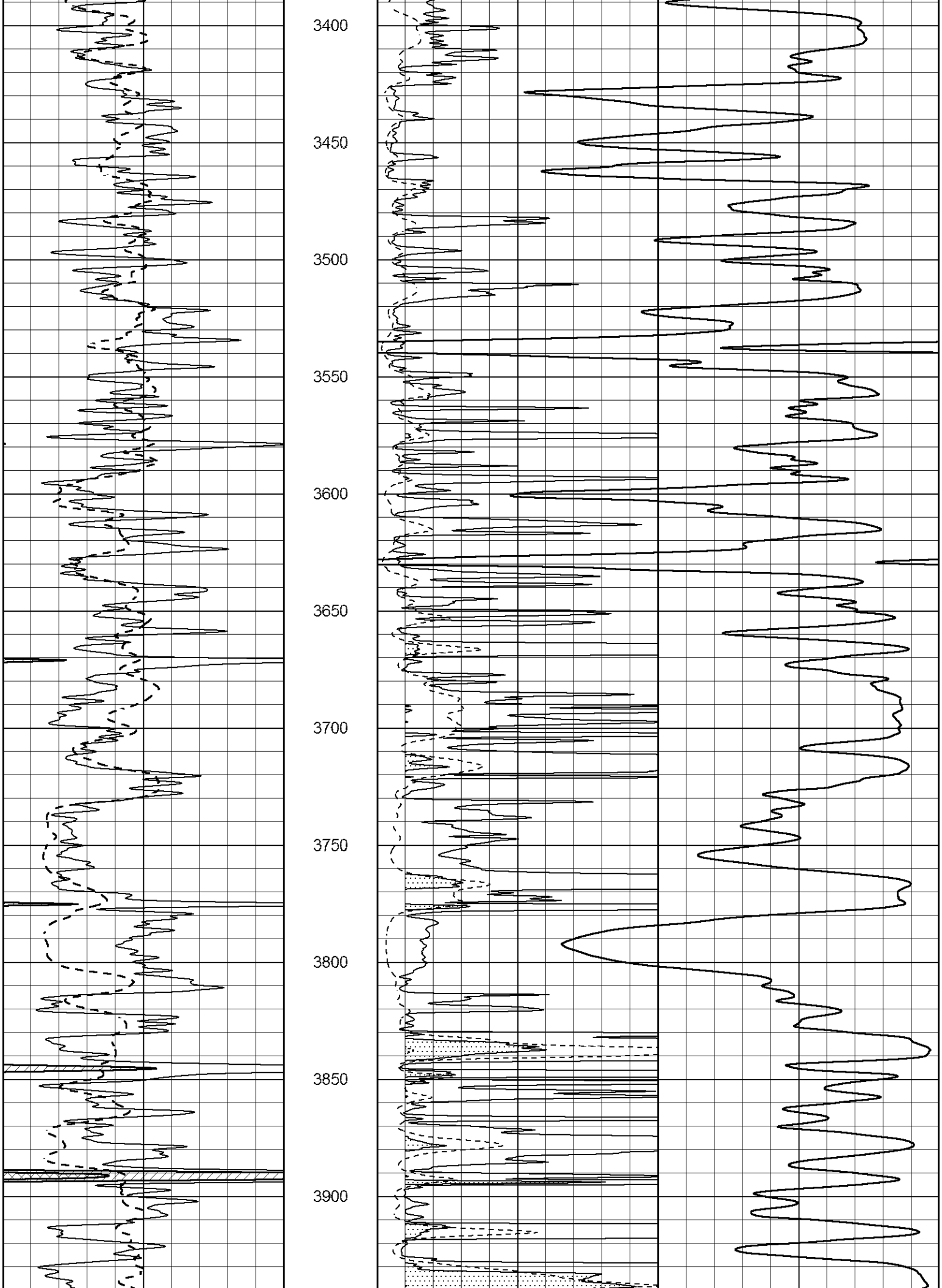
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700


1750
1800
1850
1900
1950
2000
2050
2100
2150
2200
2250


2300
2350
2400
2450
2500
2550
2600
2650
2700
2750
2800


2850
2900
2950
3000
3050
3100
3150
3200
3250
3300
3350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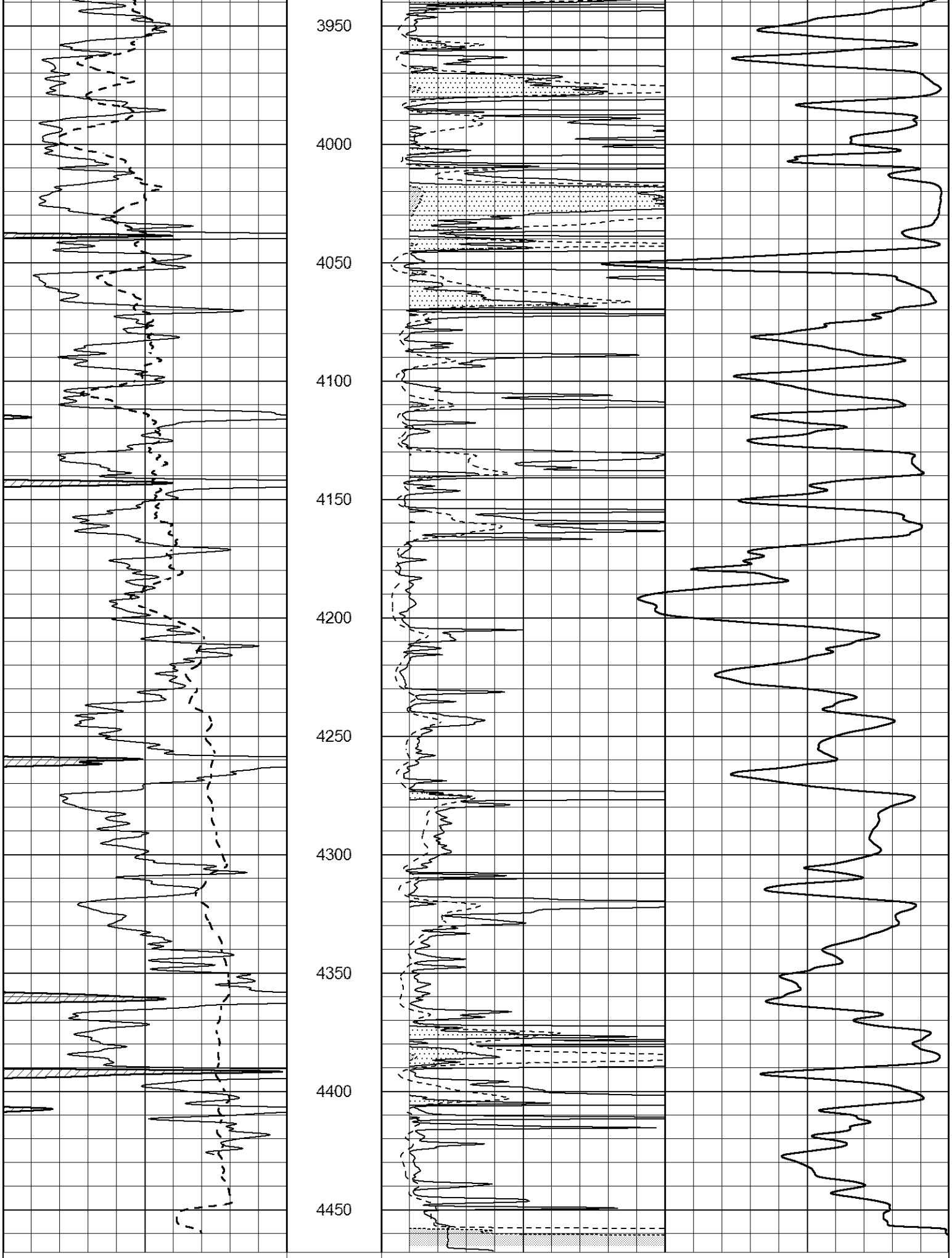
3450
3500
3550
3600
3650
3700
3750
3800
3850
3900


3950
4000
4050
4100
4150
4200
4250
4300
4350
4400
4450
0
Gamma Ray (GAPI)
150
-100
SP (mV)
100
1000
CILD (mmho/m)
0
0
RLL3 (Ohm-m)
50

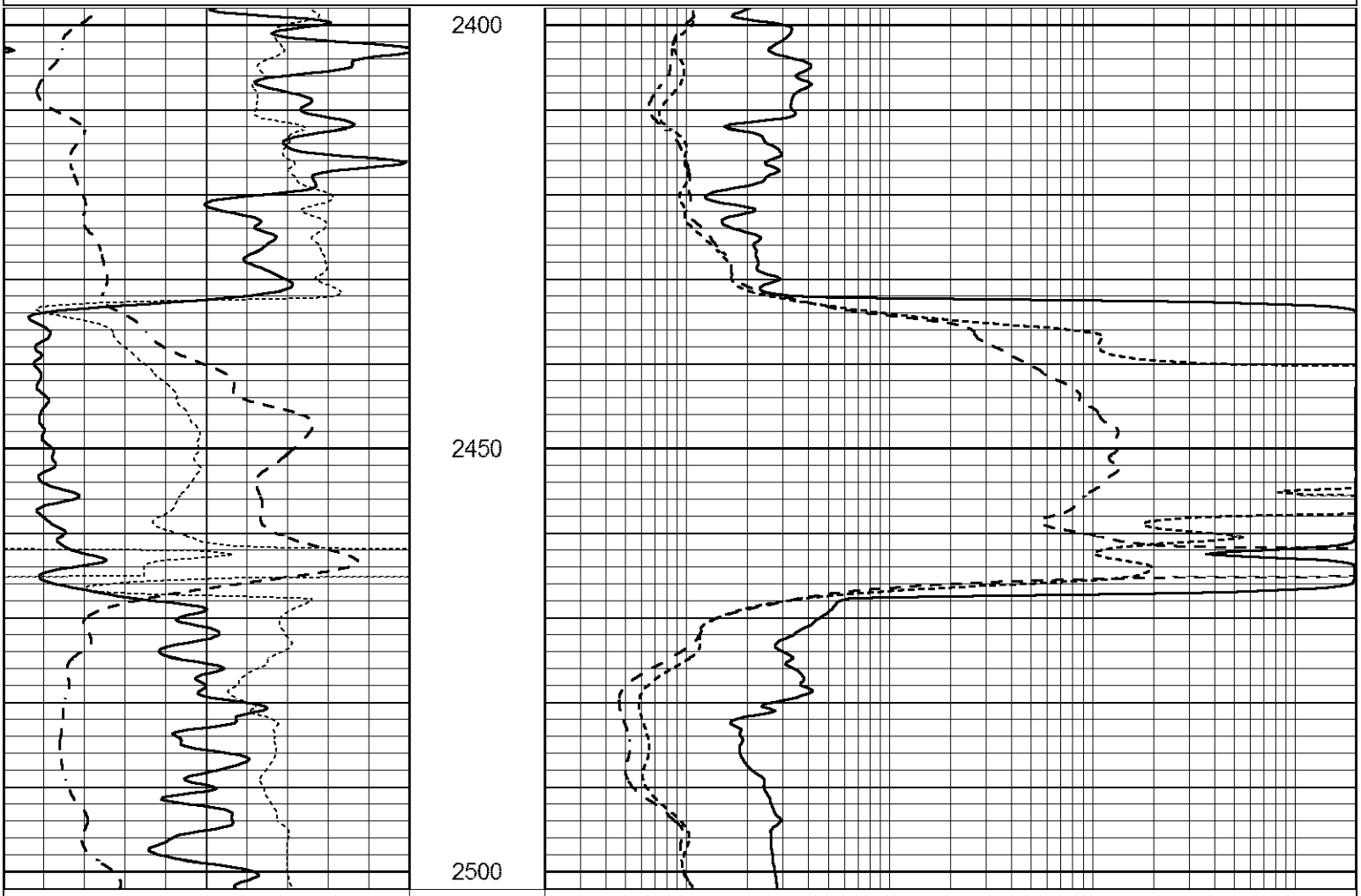
0	Deep Induction (Ohm-m)	50
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

ANHYDRITE

Database File	2523ddn8.db
Dataset Pathname	pass3.2
Presentation Format	_dil
Dataset Creation	Fri Aug 24 14:56:47 2018
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

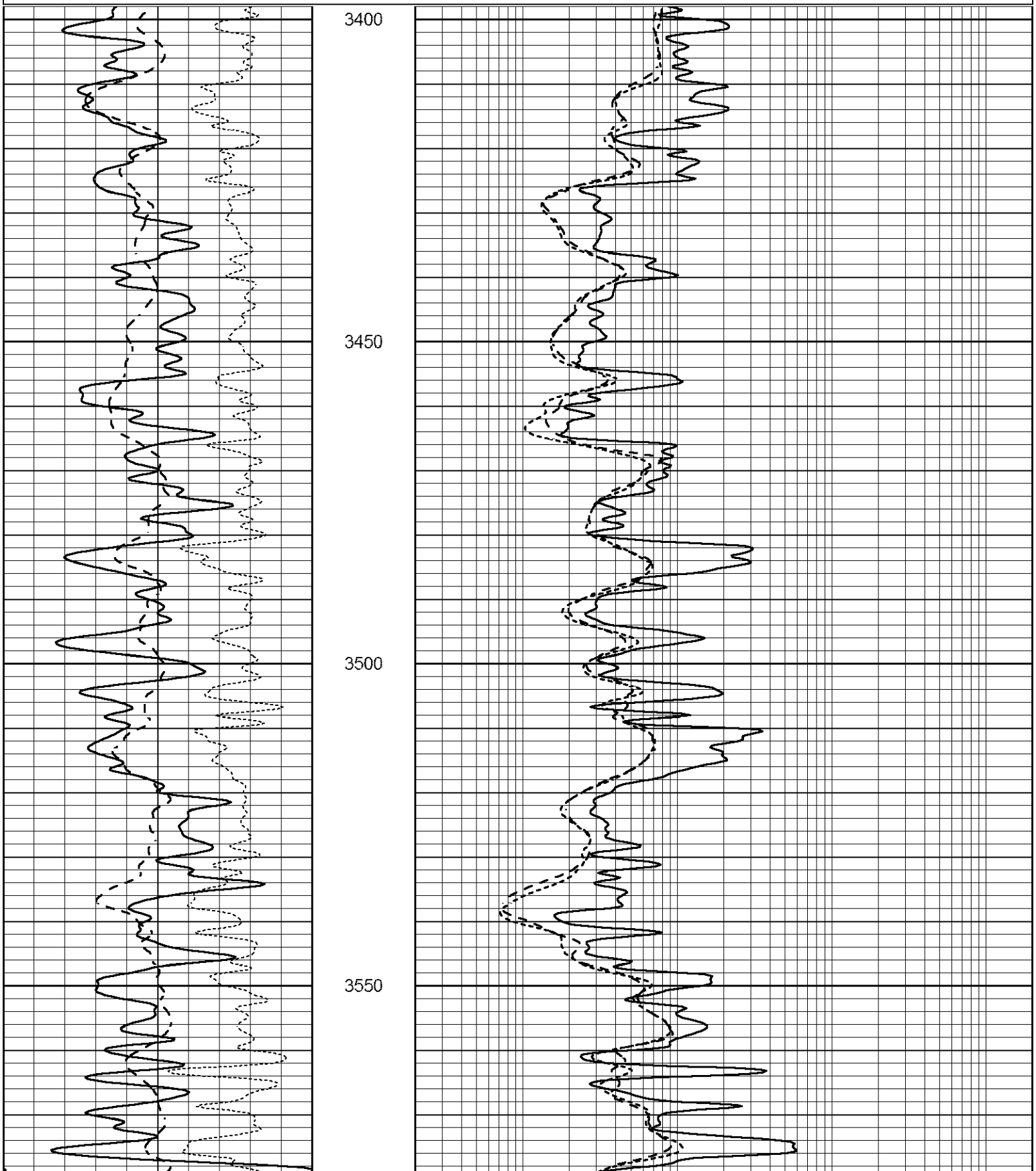
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

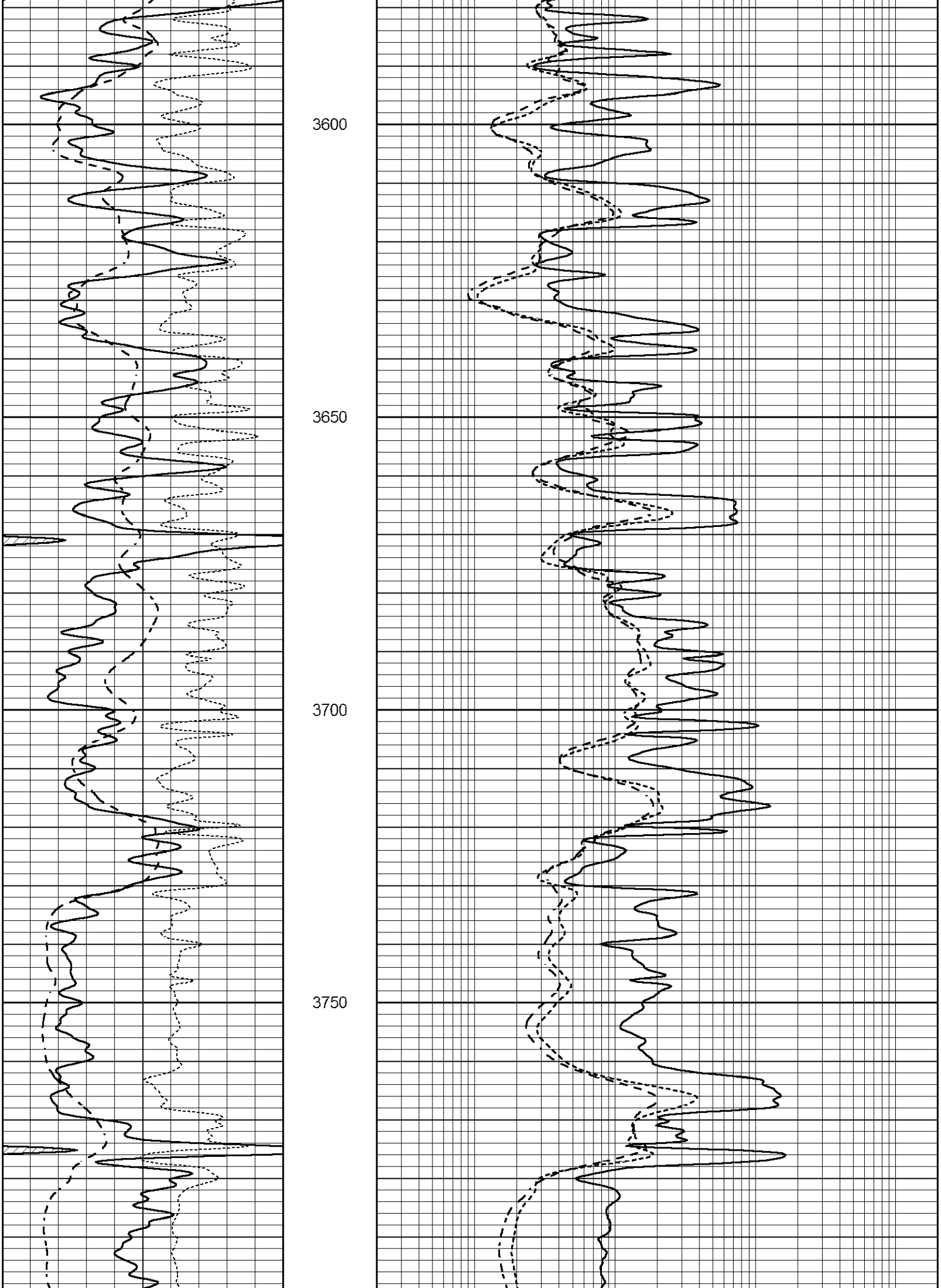
MAIN SECTION

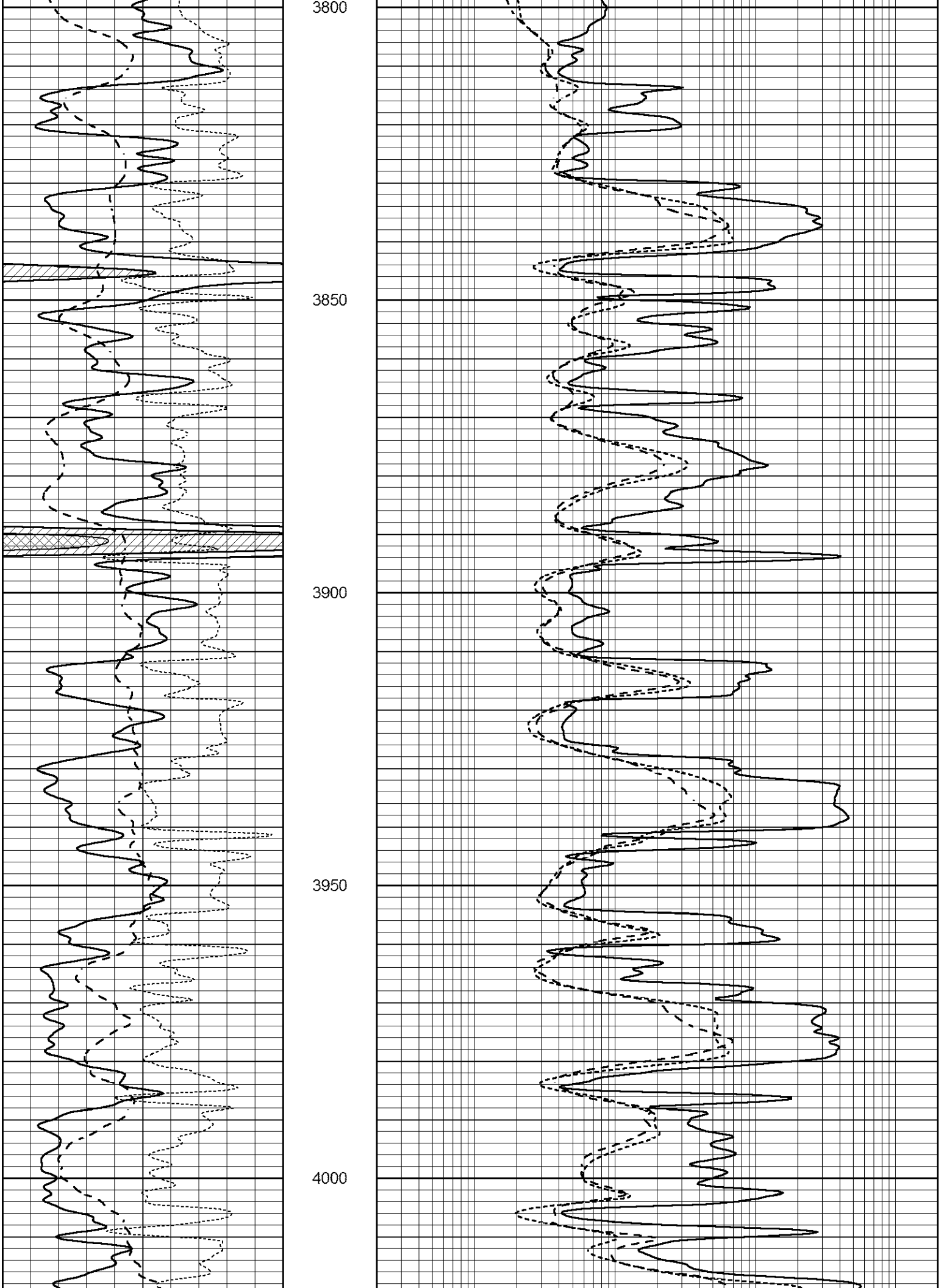
Database File	2523ddn8.db
Dataset Pathname	pass3.1
Presentation Format	_dil
Dataset Creation	Fri Aug 24 14:35:14 2018
Charted by	Depth in Feet scaled 1:240

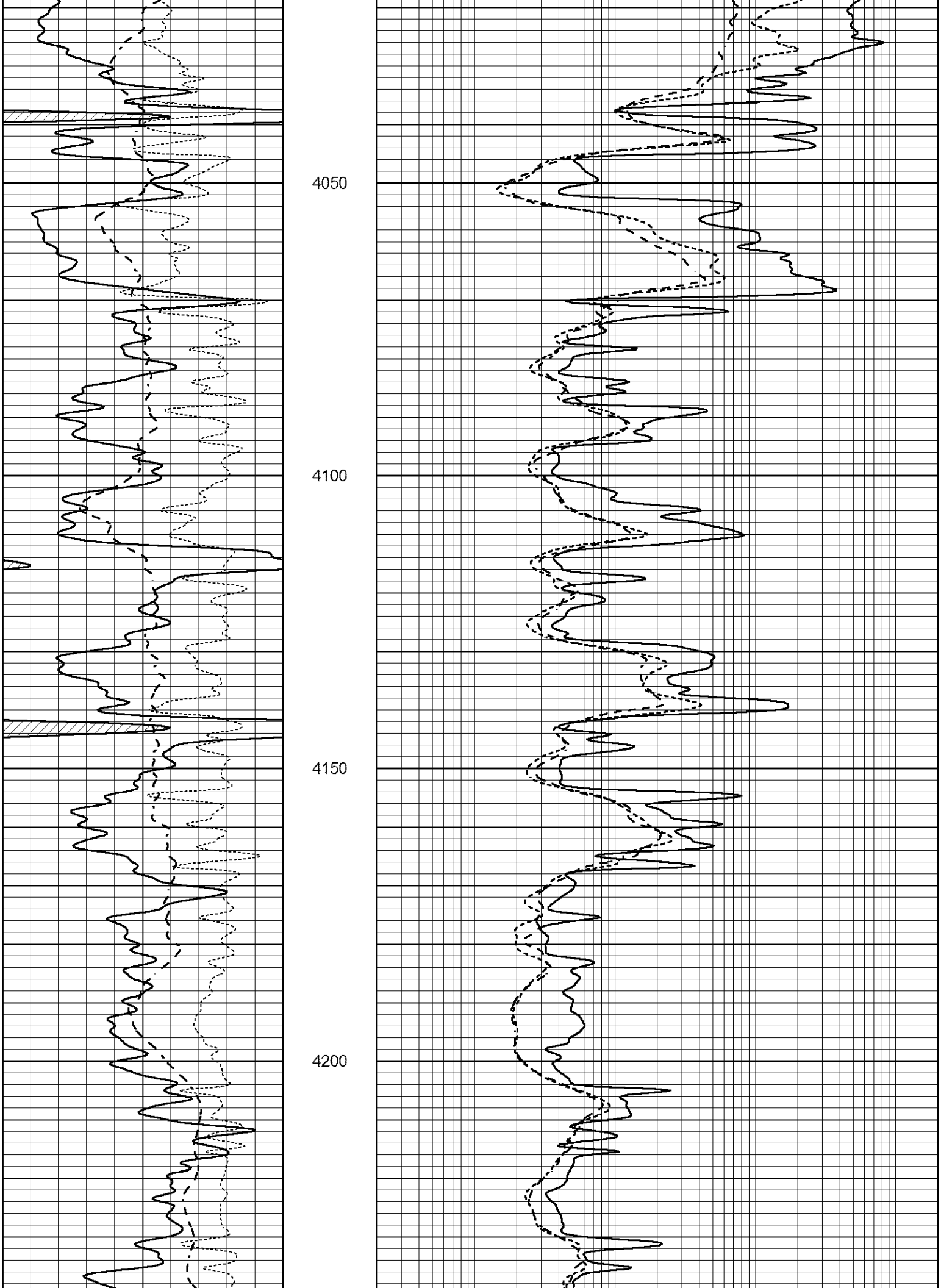
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

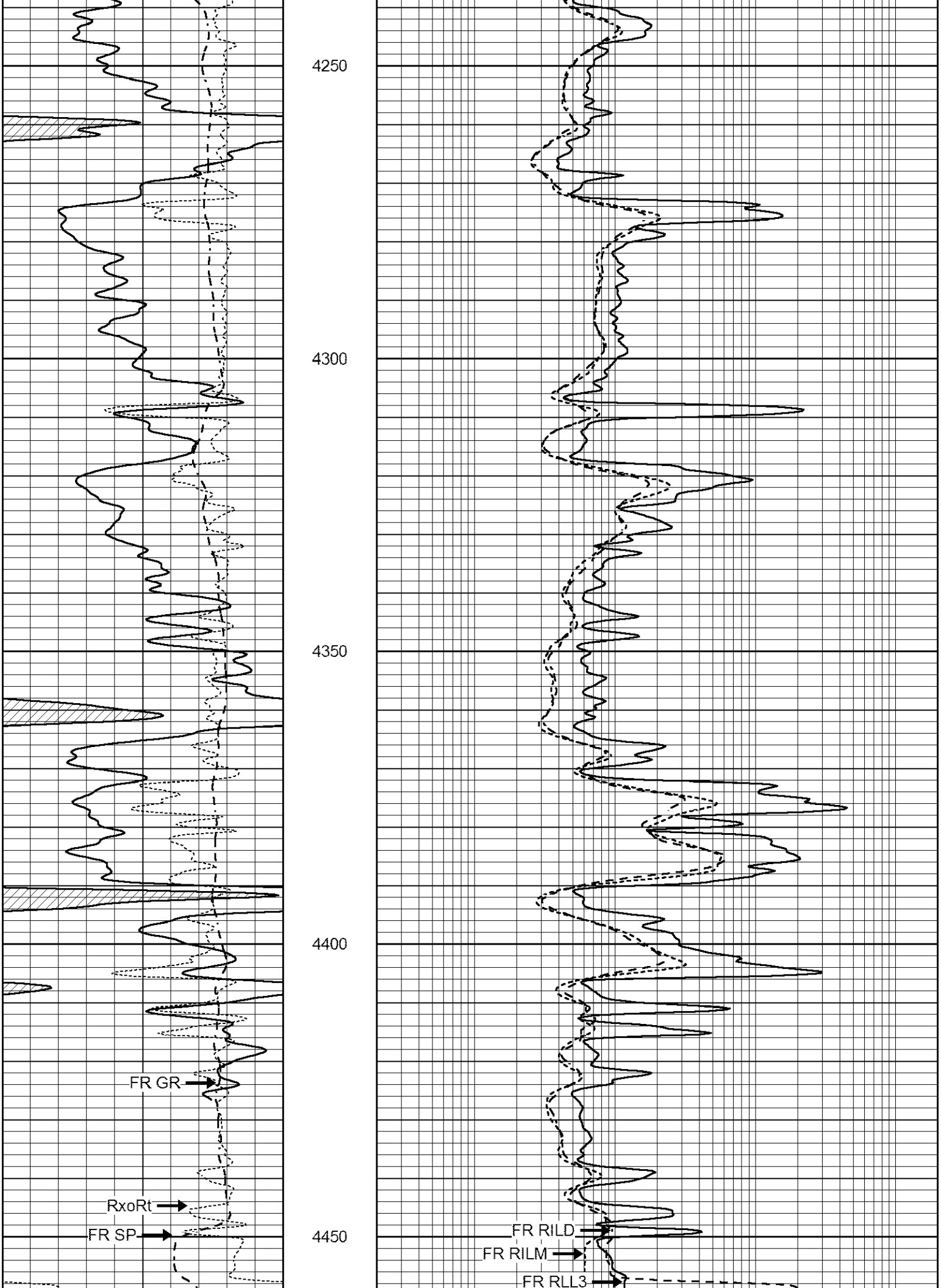
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

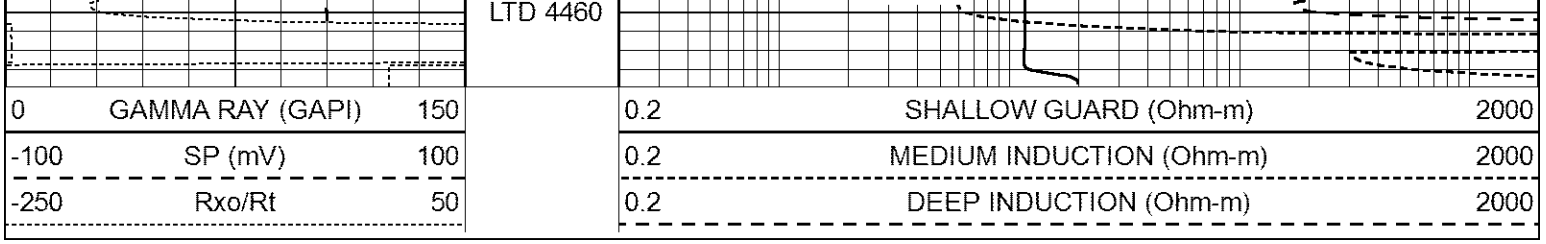



3600
3650
3700
3750


3800
3850
3900
3950
4000

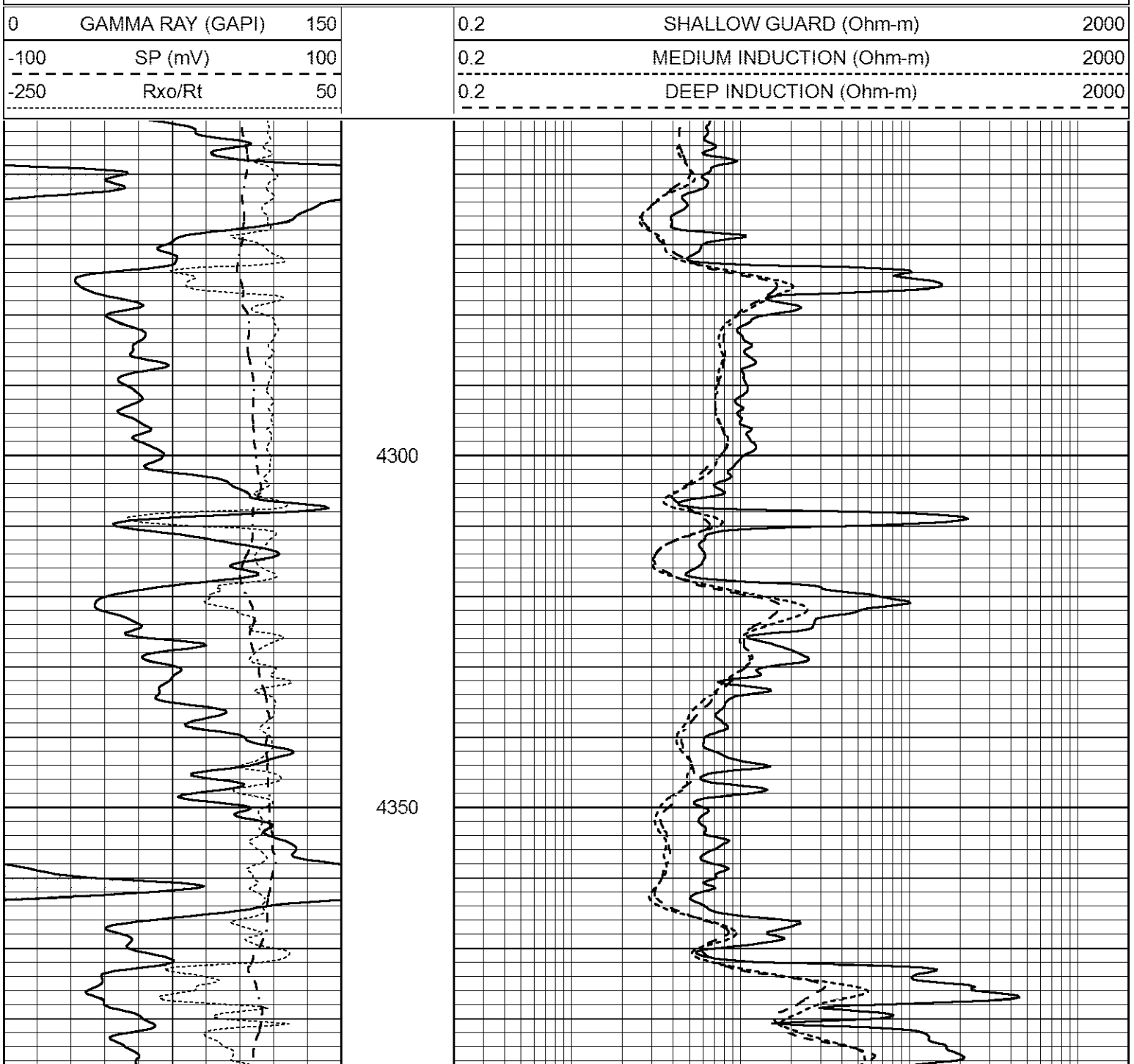

4050
4100
4150
4200

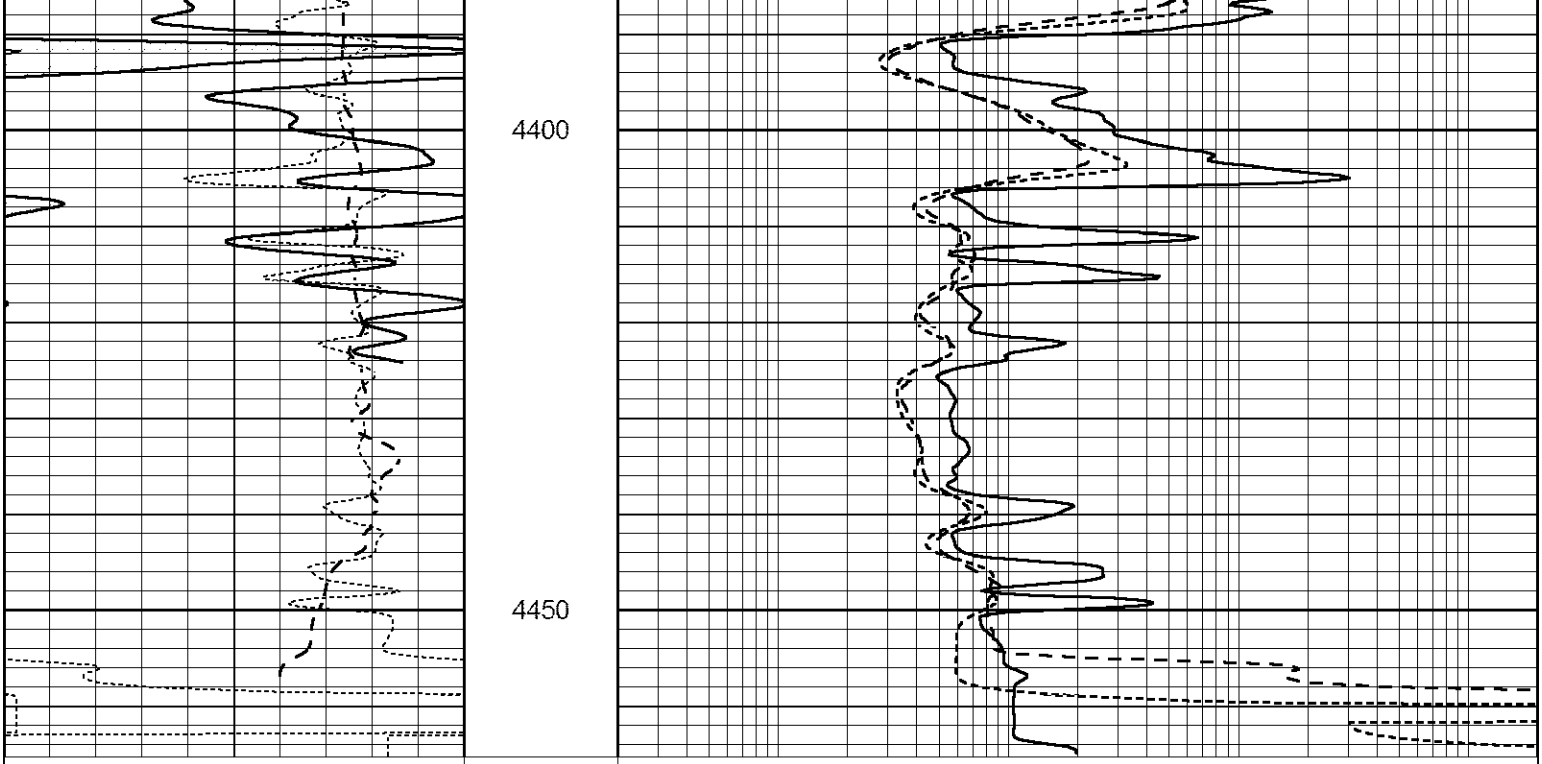

4250
4300
4350
4400
4450
FR GR
RxoRt
FR SP
FR RILD
FR RILM
FR RLL3



REPEAT SECTION

Database File	2523ddn8.db
Dataset Pathname	pass2.1
Presentation Format	_dil
Dataset Creation	Fri Aug 24 14:22:24 2018
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File 2523ddn8.db
Dataset Pathname pass2.1
Dataset Creation Fri Aug 24 14:22:24 2018

Dual Induction Calibration Report

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Mon May 22 14:23:32 2017
Downhole Cal Performed:	Thu Mar 12 09:29:20 2015
After Survey Verification Performed:	Thu Mar 12 09:29:20 2015

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	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: Wed Jun 29 11:10:58 2016

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps