DUAL INDUCTION LOG

Company PACKARD OIL & GAS
Well JAYNE #3
Field NURSE
County BARBER State KANSAS

Location: API # : 15-007-24373-0000

192' FSL & 2742' FEL

SEC 22 TWP 31S RGE 13W

Other Services
CDL/CNL
ML

Elevation
K.B. 1591
D.F. 1589
G.L. 1580

Permanent Datum GROUND LEVEL Elevation 1580
Log Measured From KELLY BUSHING 11' A.G.L
Drilling Measured From KELLY BUSHING

Company PACKARD OIL & GAS
Well JAYNE #3
Field NURSE
County BARBER
State KANSAS

Date	11/14/20		
Run Number	ONE		
Depth Driller	3780		
Depth Logger	3780		
Bottom Logged Interval	3778		
Top Log Interval	00		
Casing Driller	8 5/8" @ 220		
Casing Logger	220		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/57		
pH / Fluid Loss	11.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.75 @ 65F		
Rmf @ Meas. Temp	.56 @ 65F		
Rmc @ Meas. Temp	.90 @ 65F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.42 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	114F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	ROGER MARTIN		

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS

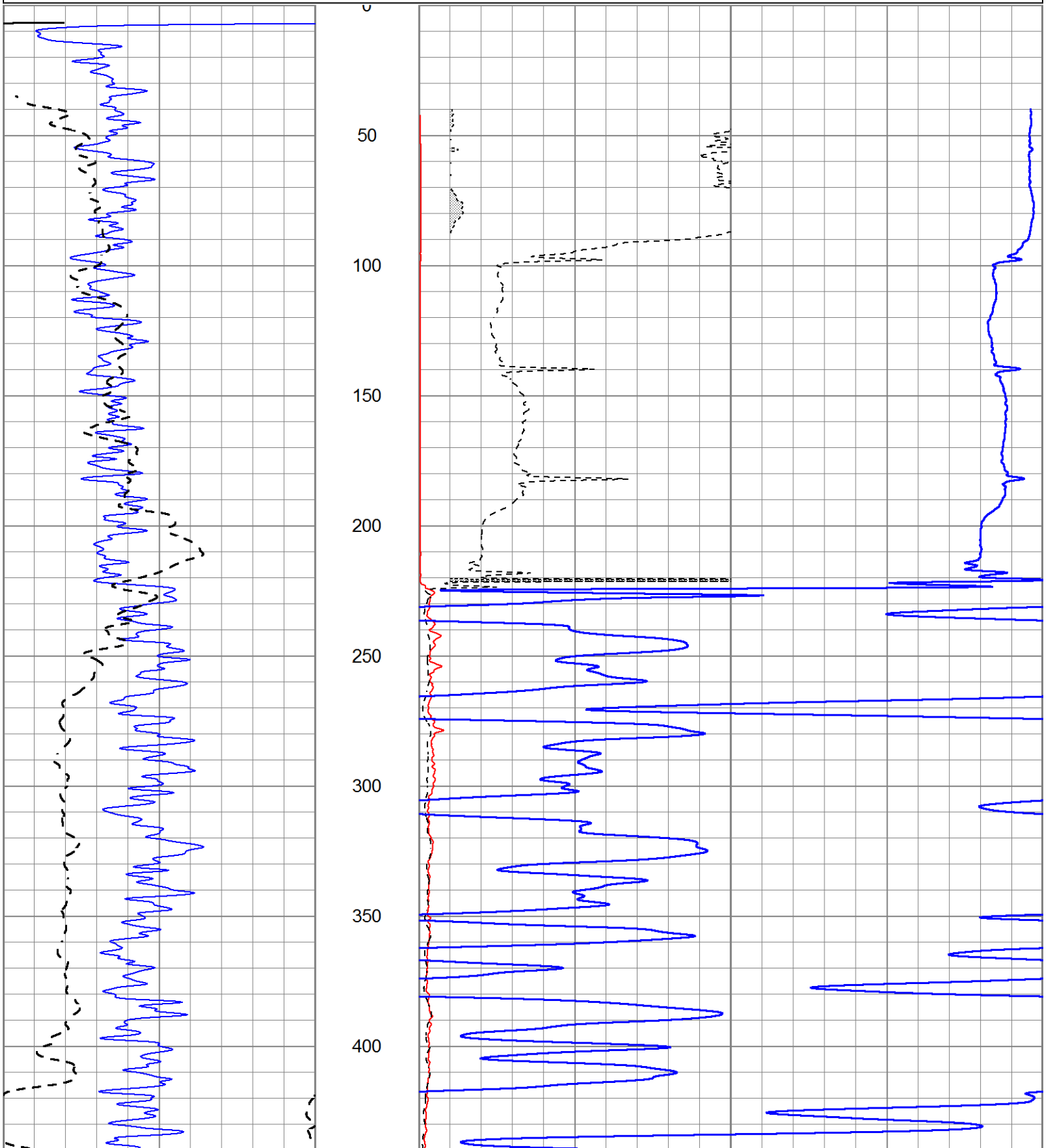
NORTH SIDE OF MEDICINE LODGE ON SUN CITY RD GO WEST 7-8 MILES
TO CATTLE PINS NORTH INTO.

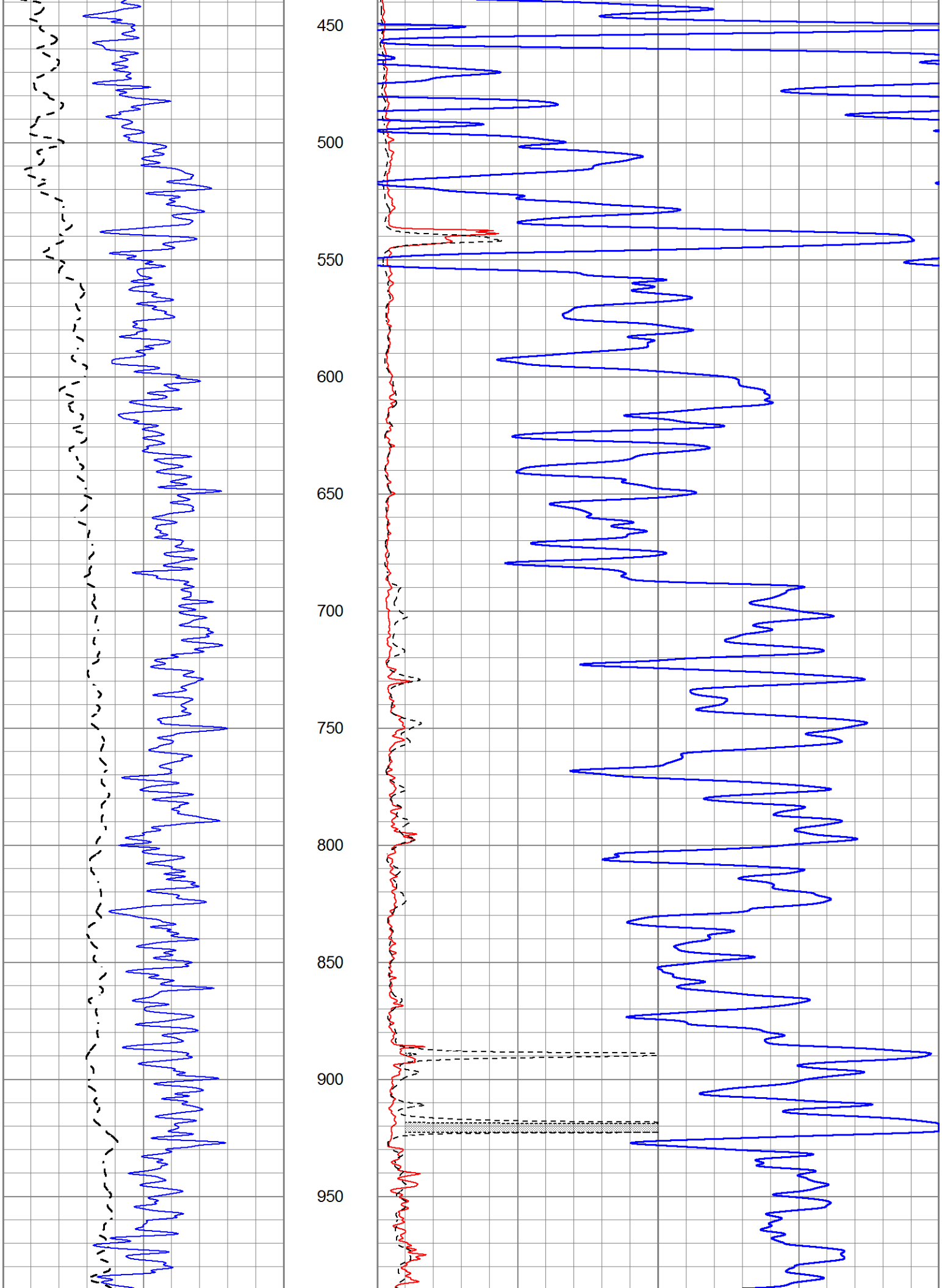
MAIN PASS

Database File	5238ddn.db
Dataset Pathname	pass4.1
Presentation Format	_dil2
Dataset Creation	Sat Nov 14 18:11:42 2020
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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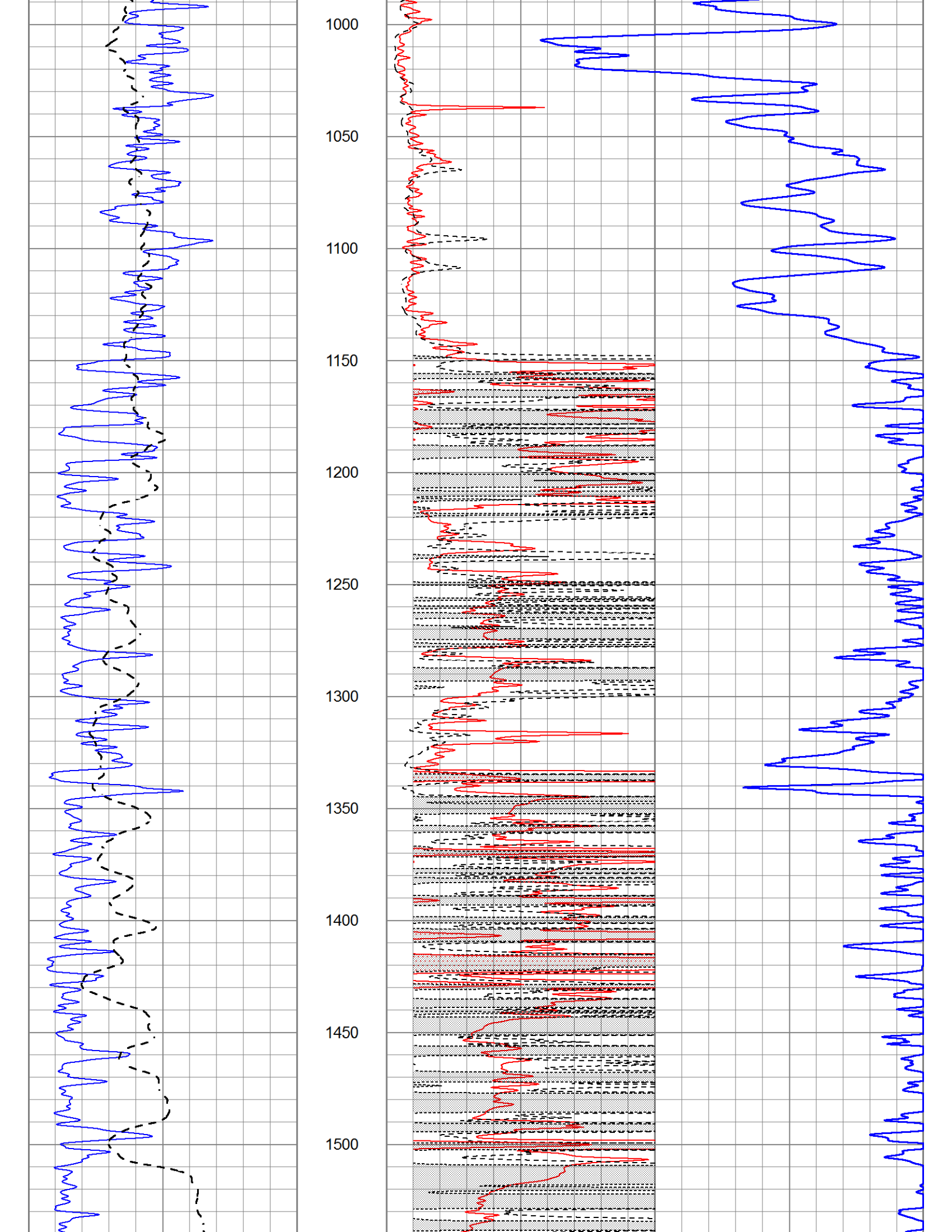
950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1100
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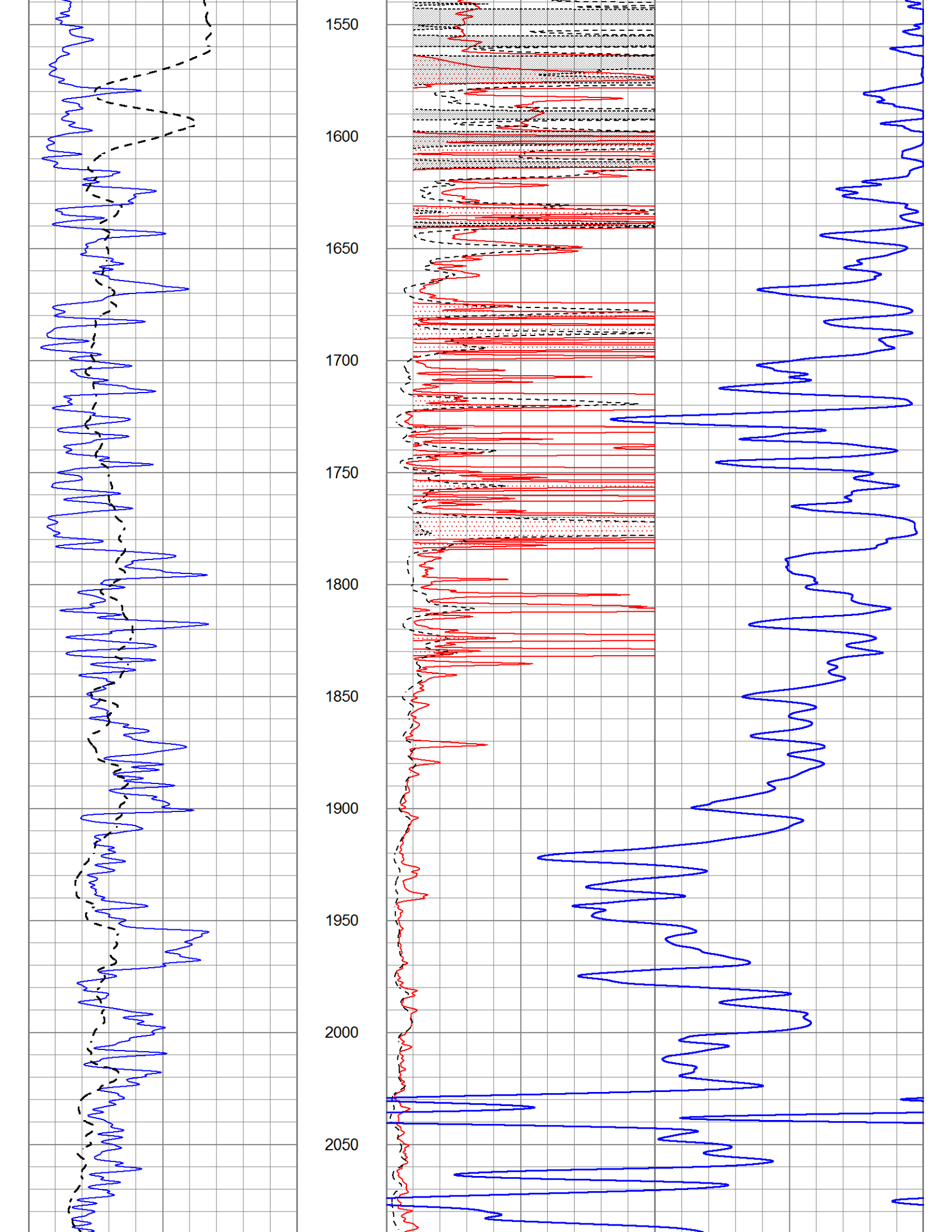
1200
1250
1300
1350
1400
1450
1500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1700
1750
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1850
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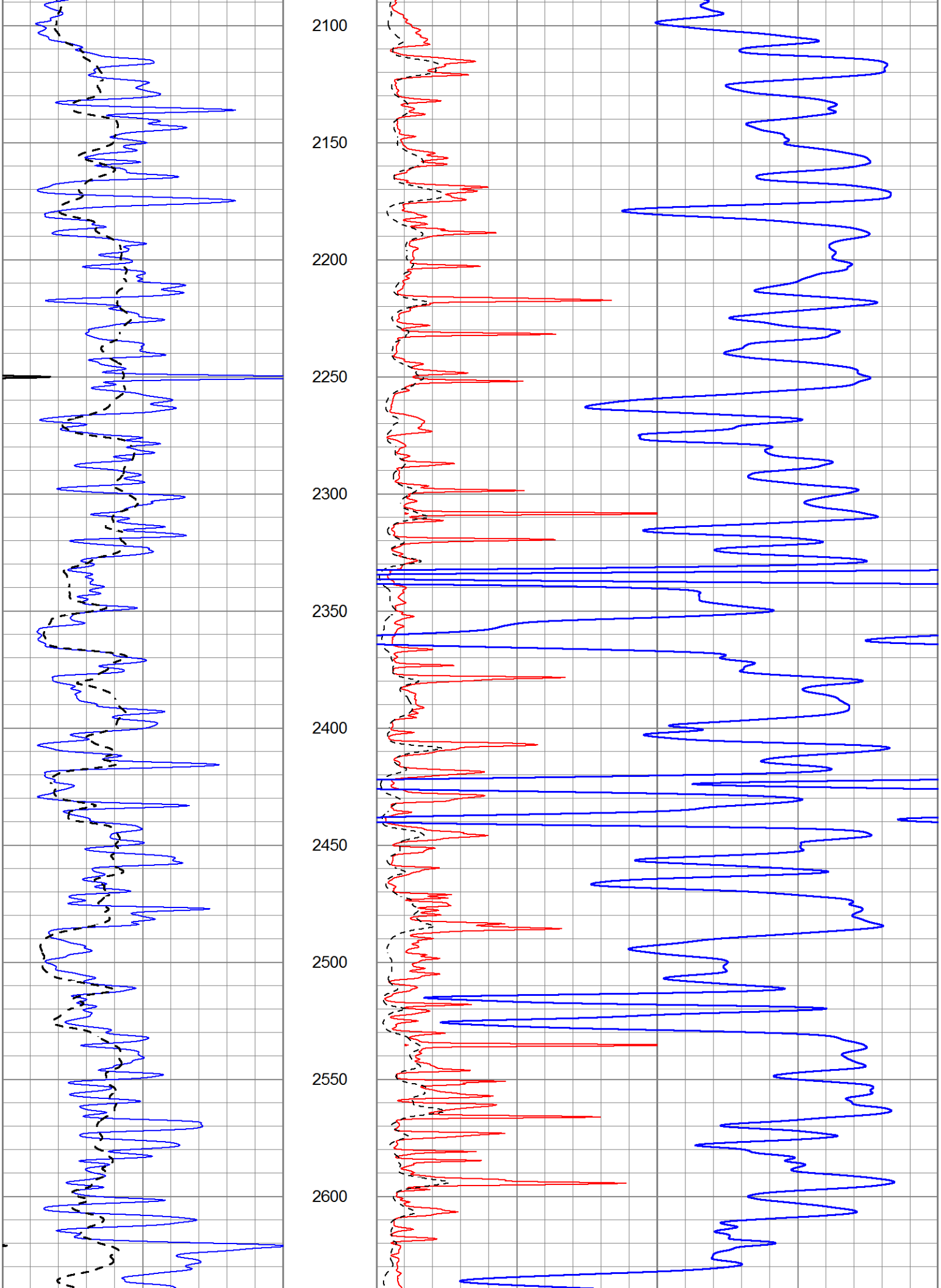
1950
2000
2050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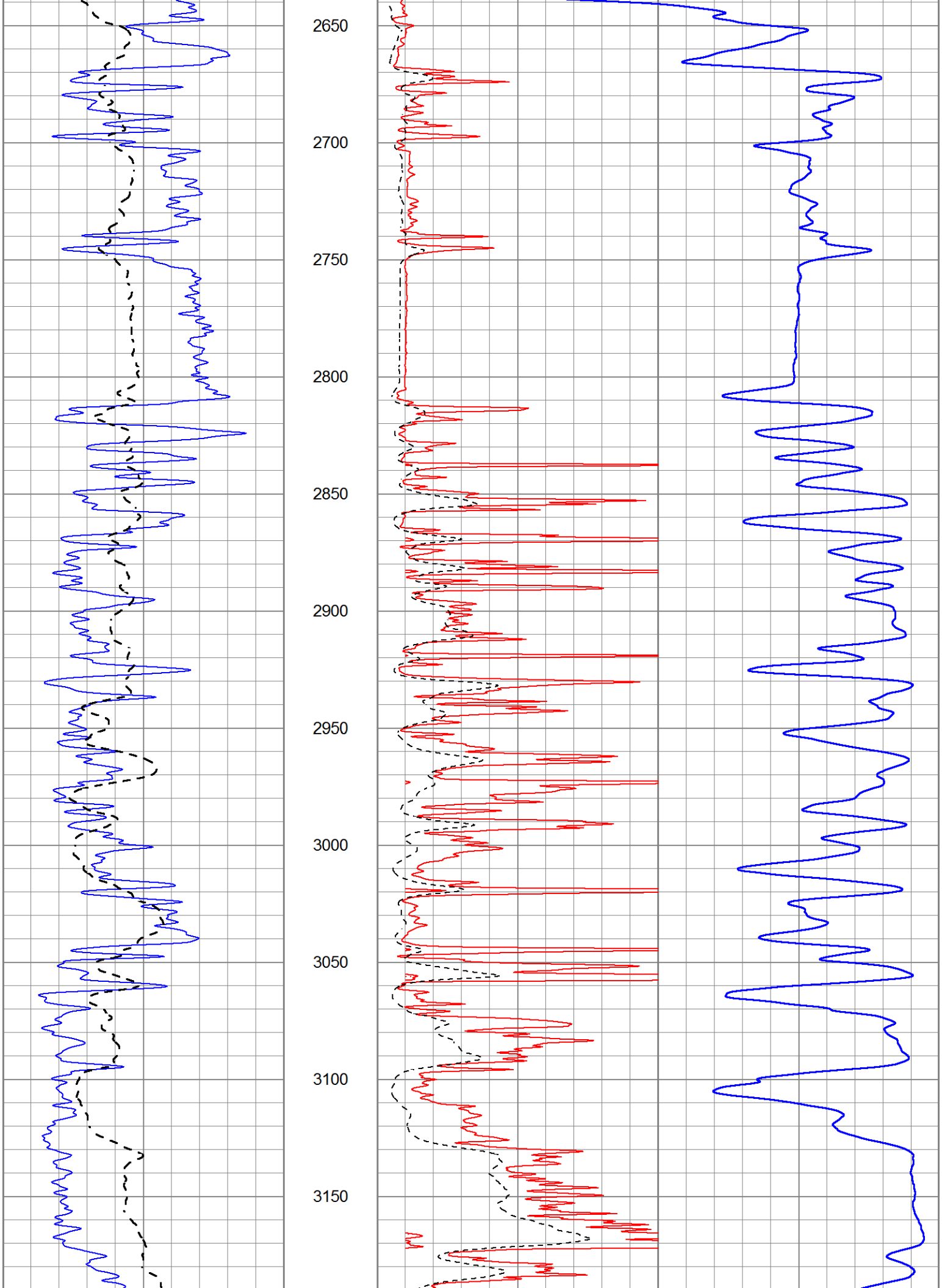
2200
2250
2300
2350
2400
2450
2500
2550
2600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2900
2950
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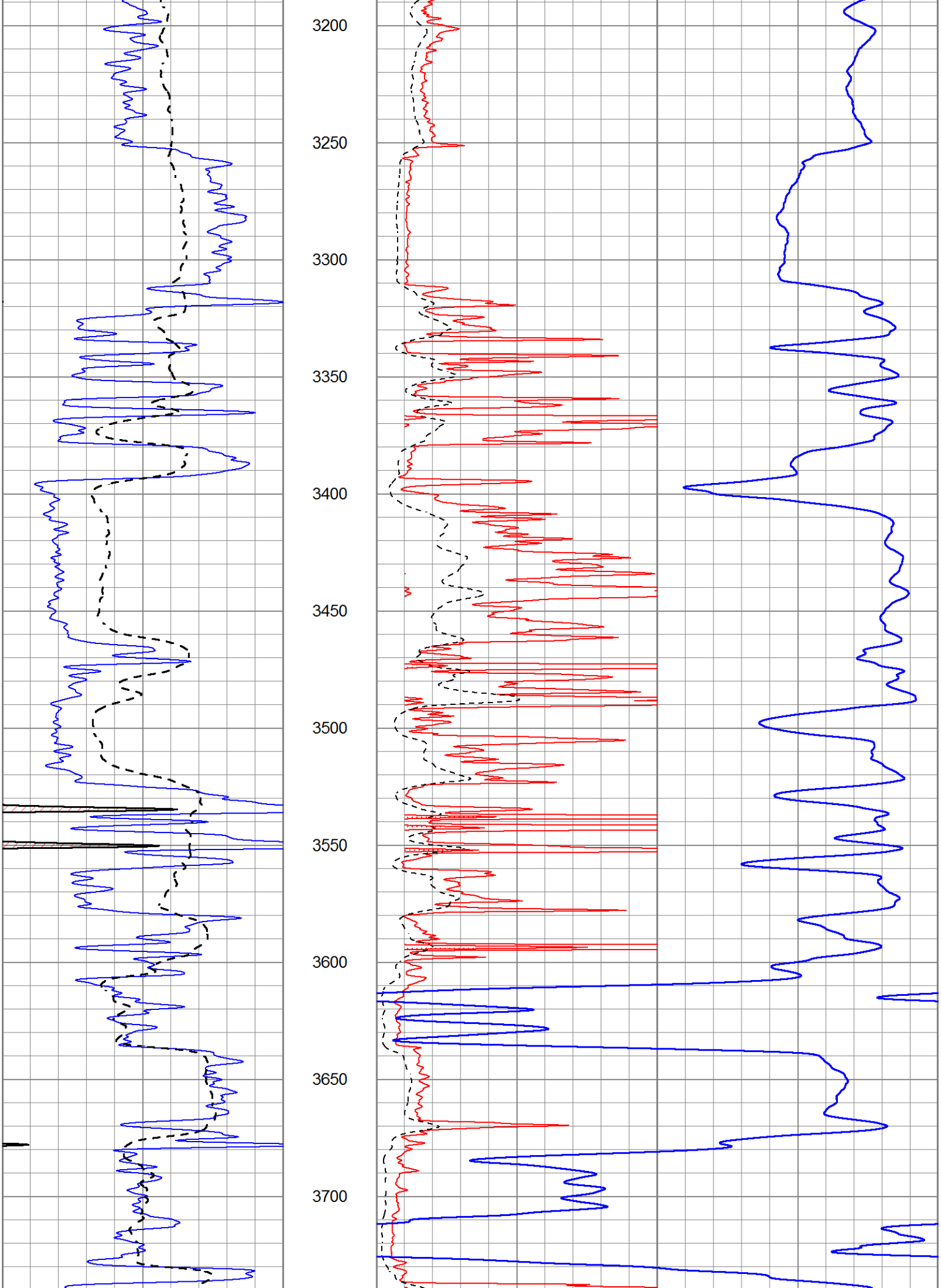
3050
3100
3150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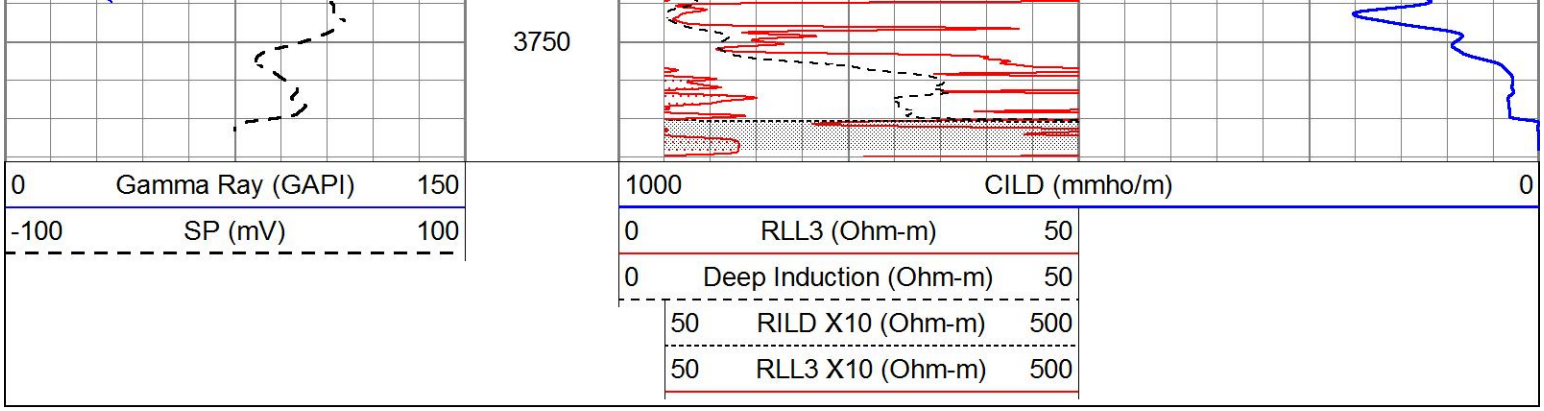
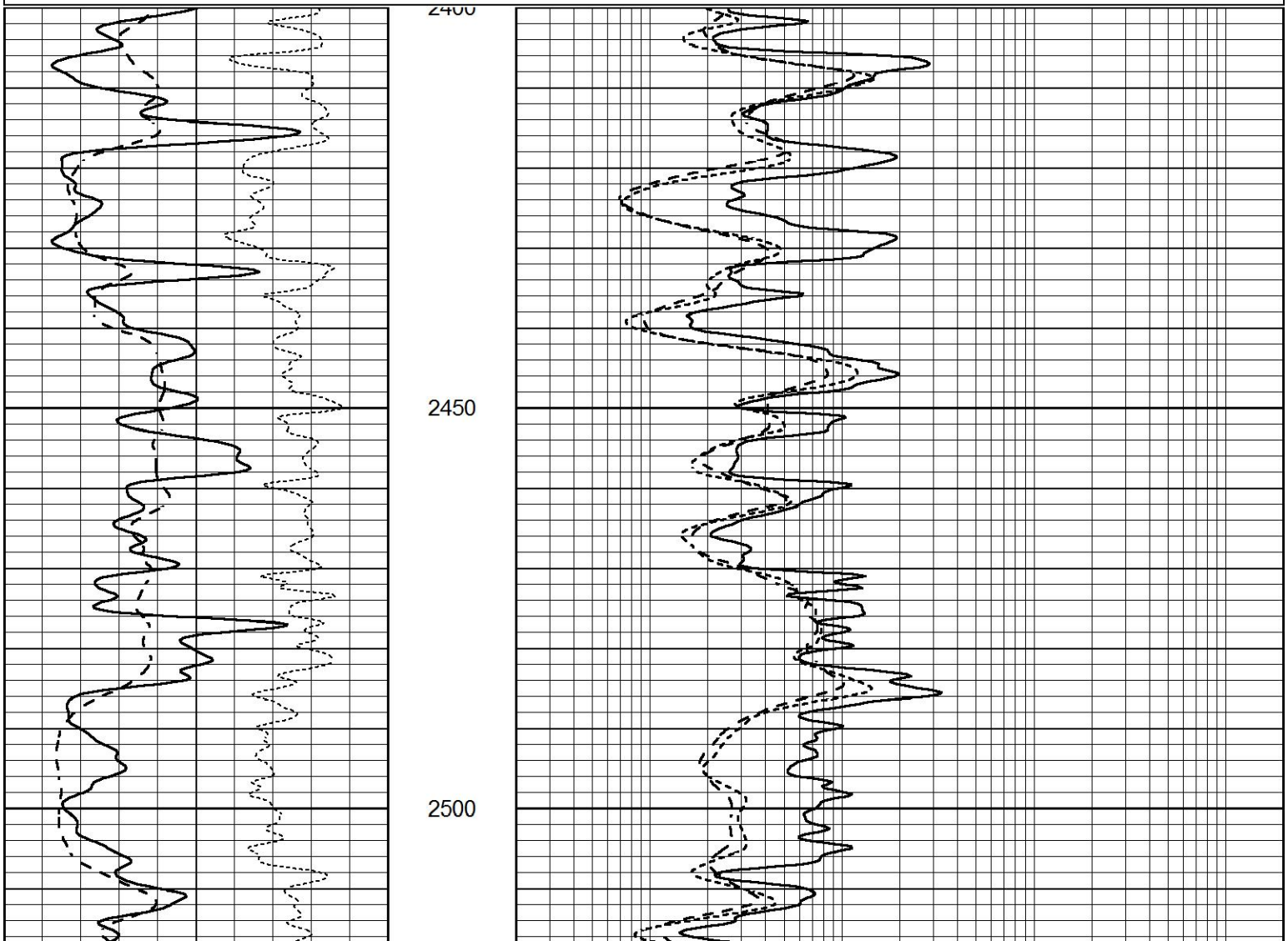
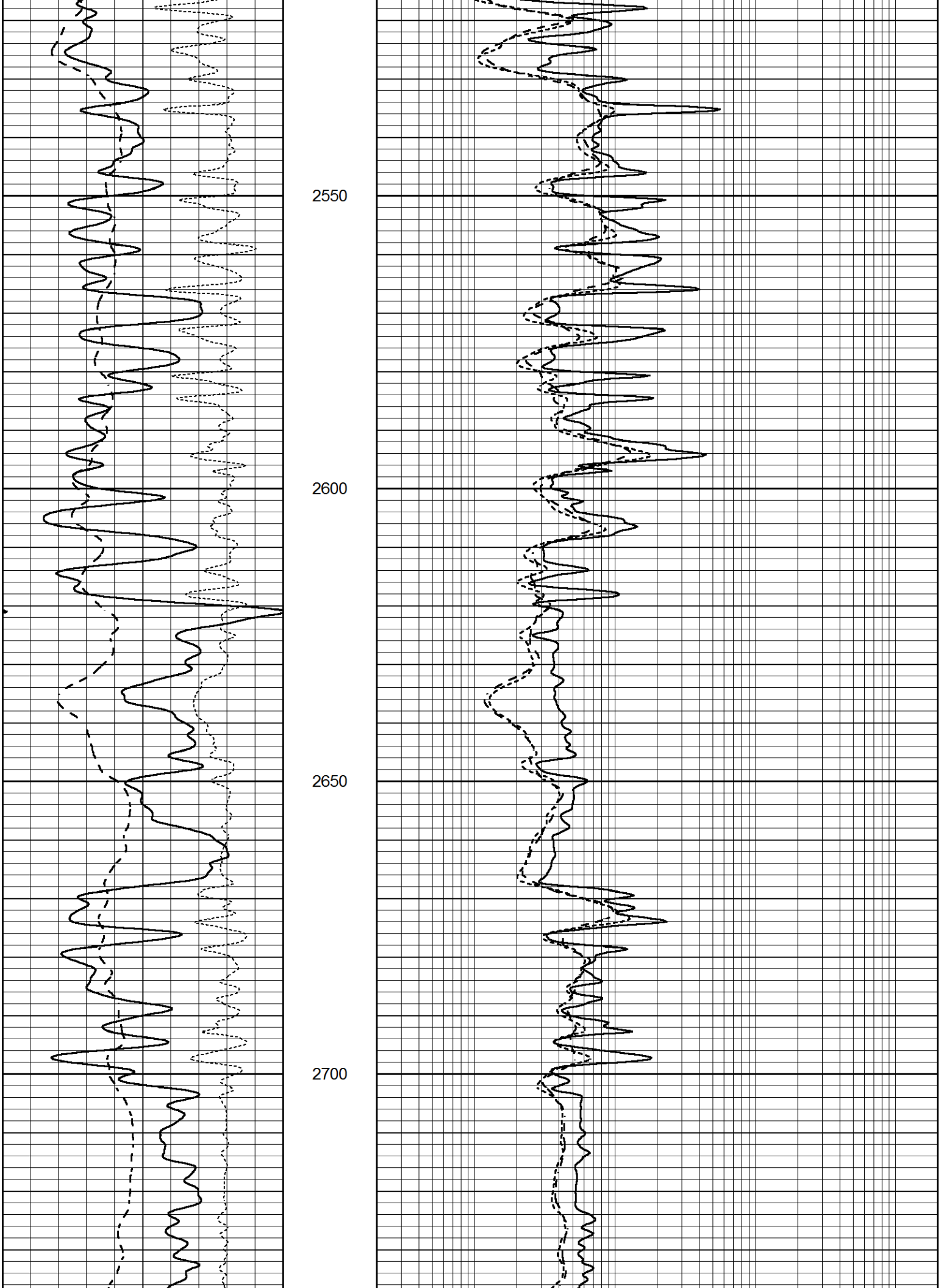
3600
3650
3700



MAIN PASS

Database File	5238ddn.db
Dataset Pathname	pass4.1
Presentation Format	_dil
Dataset Creation	Sat Nov 14 18:11:42 2020
Charted by	Depth in Feet scaled 1:240

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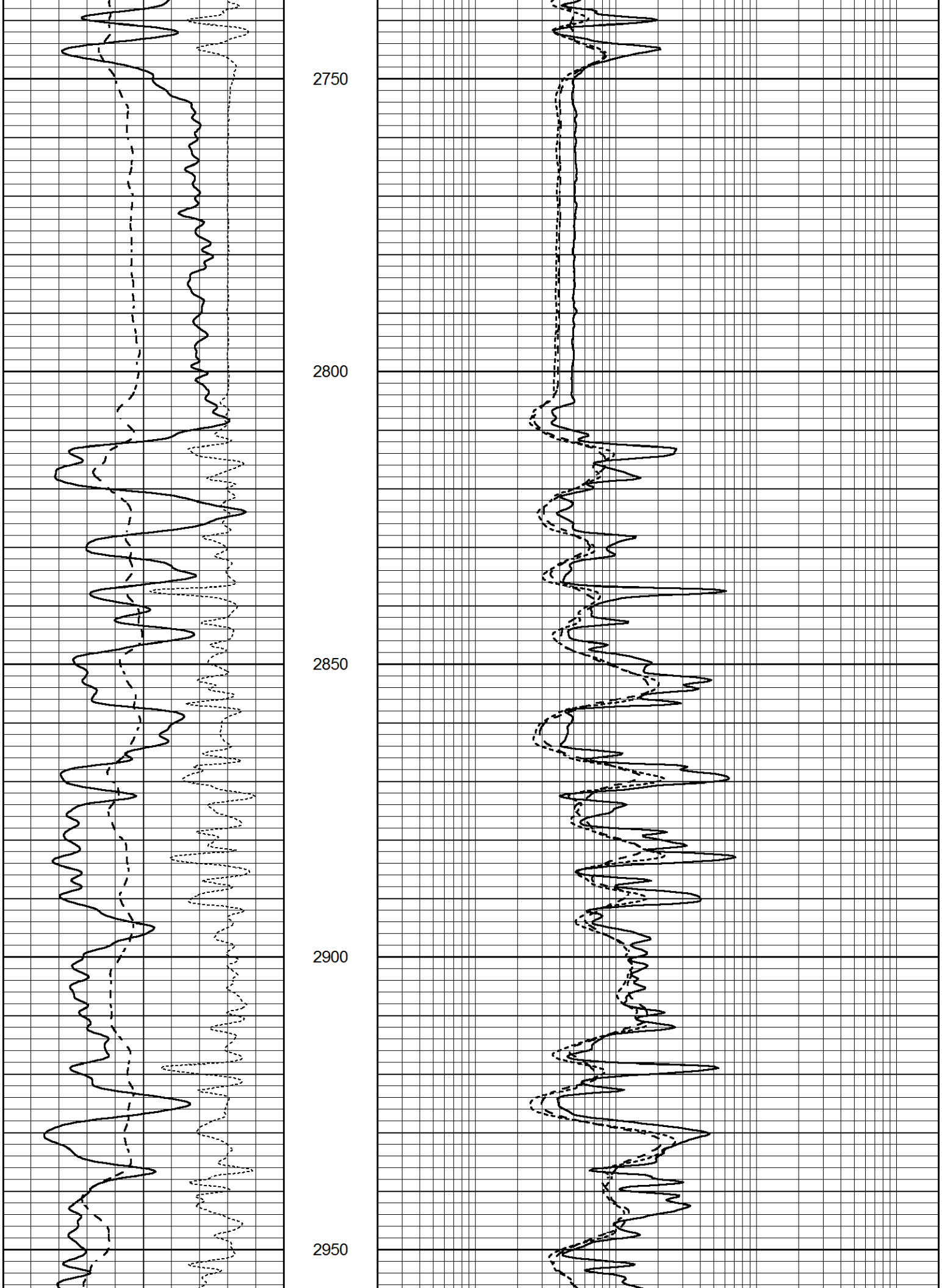
2700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2900
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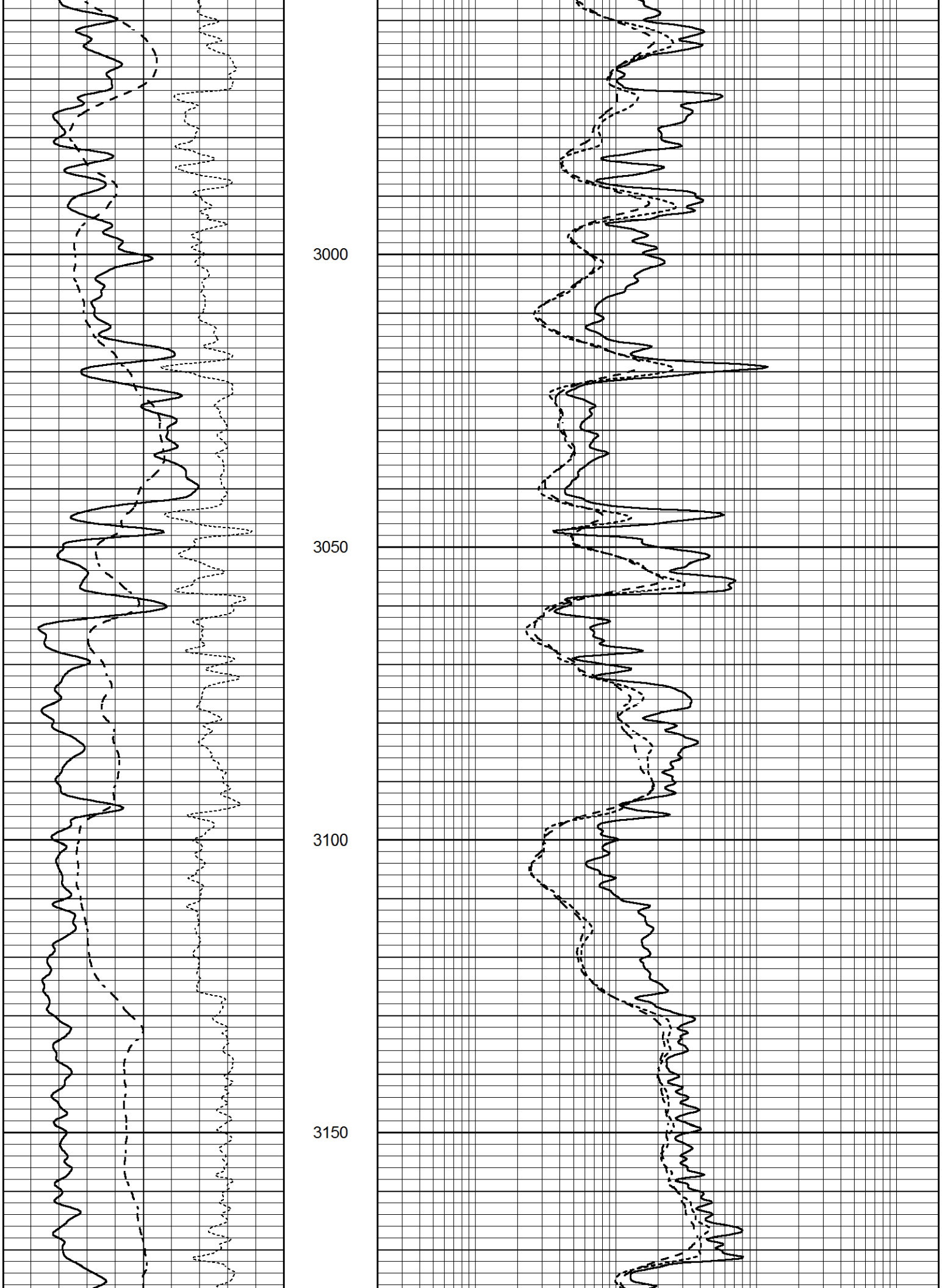
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3100
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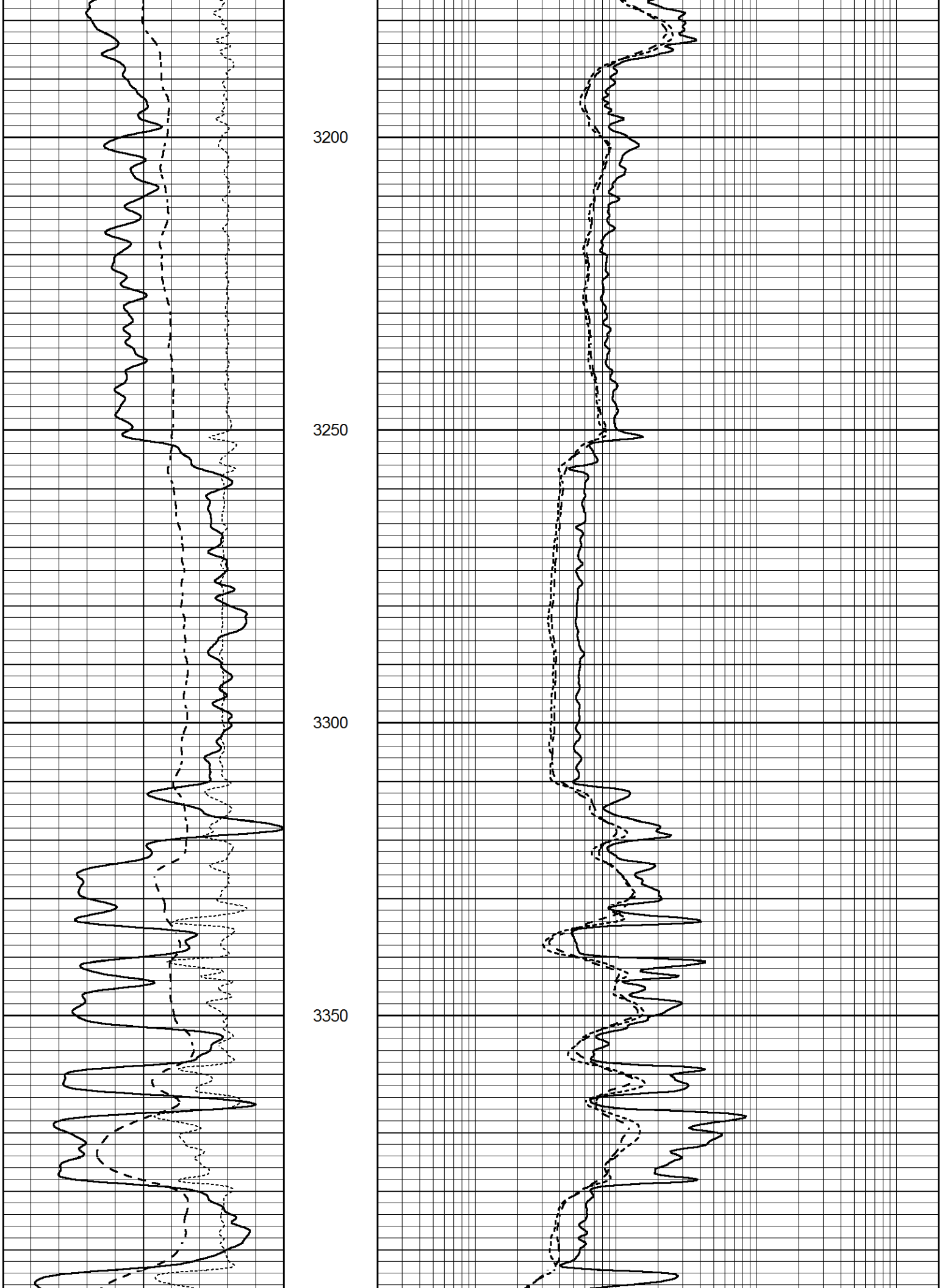
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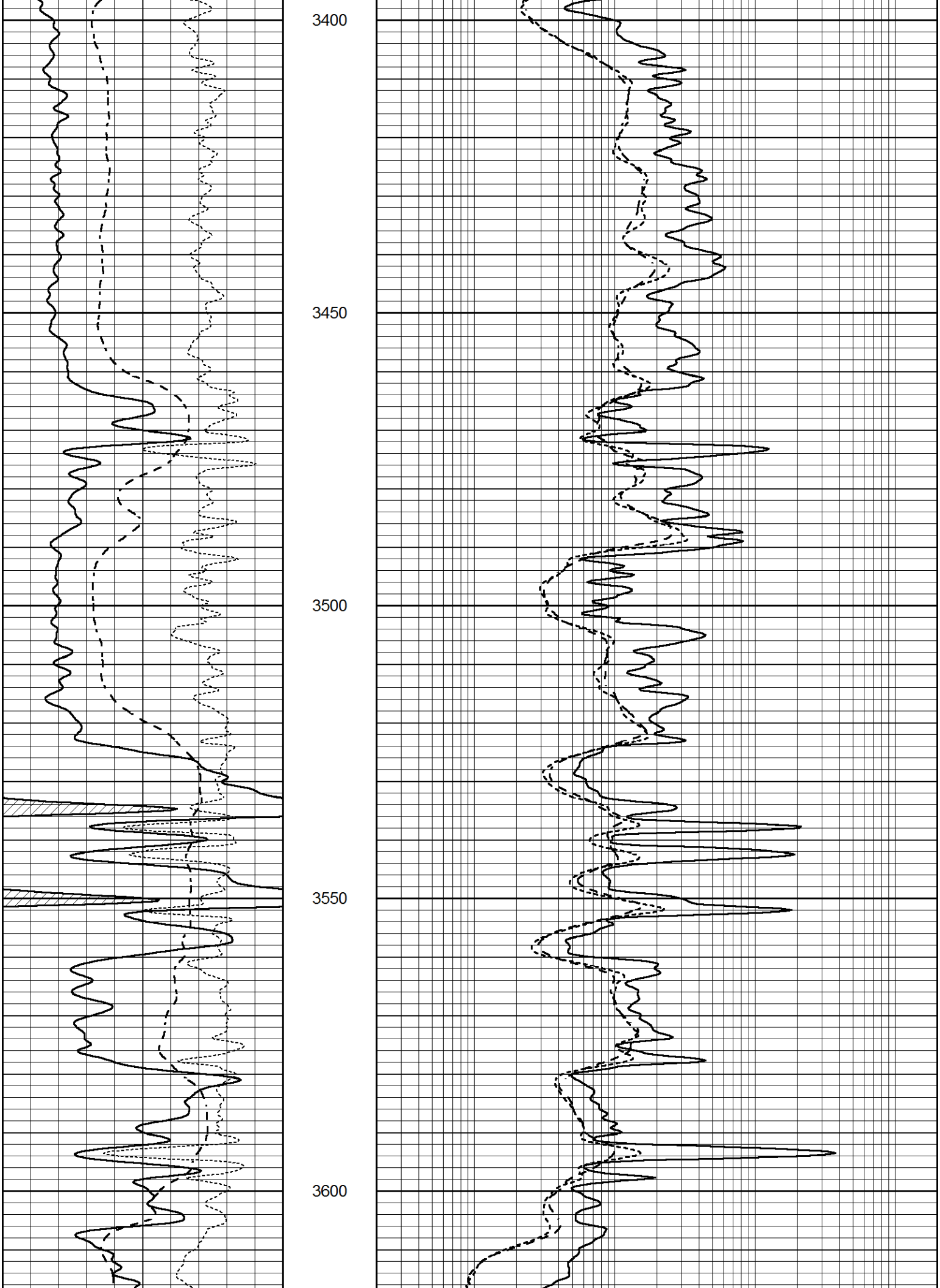
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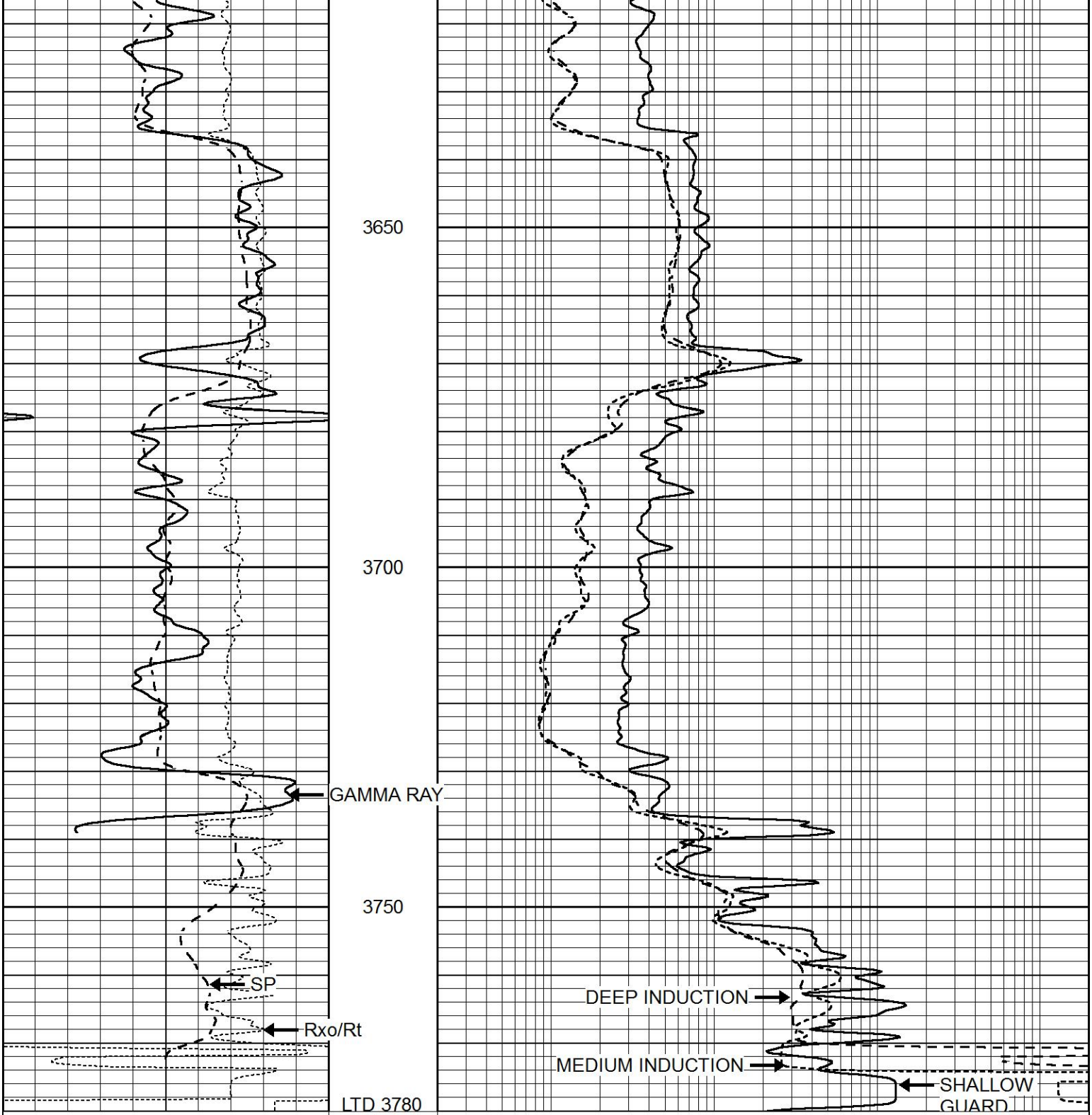


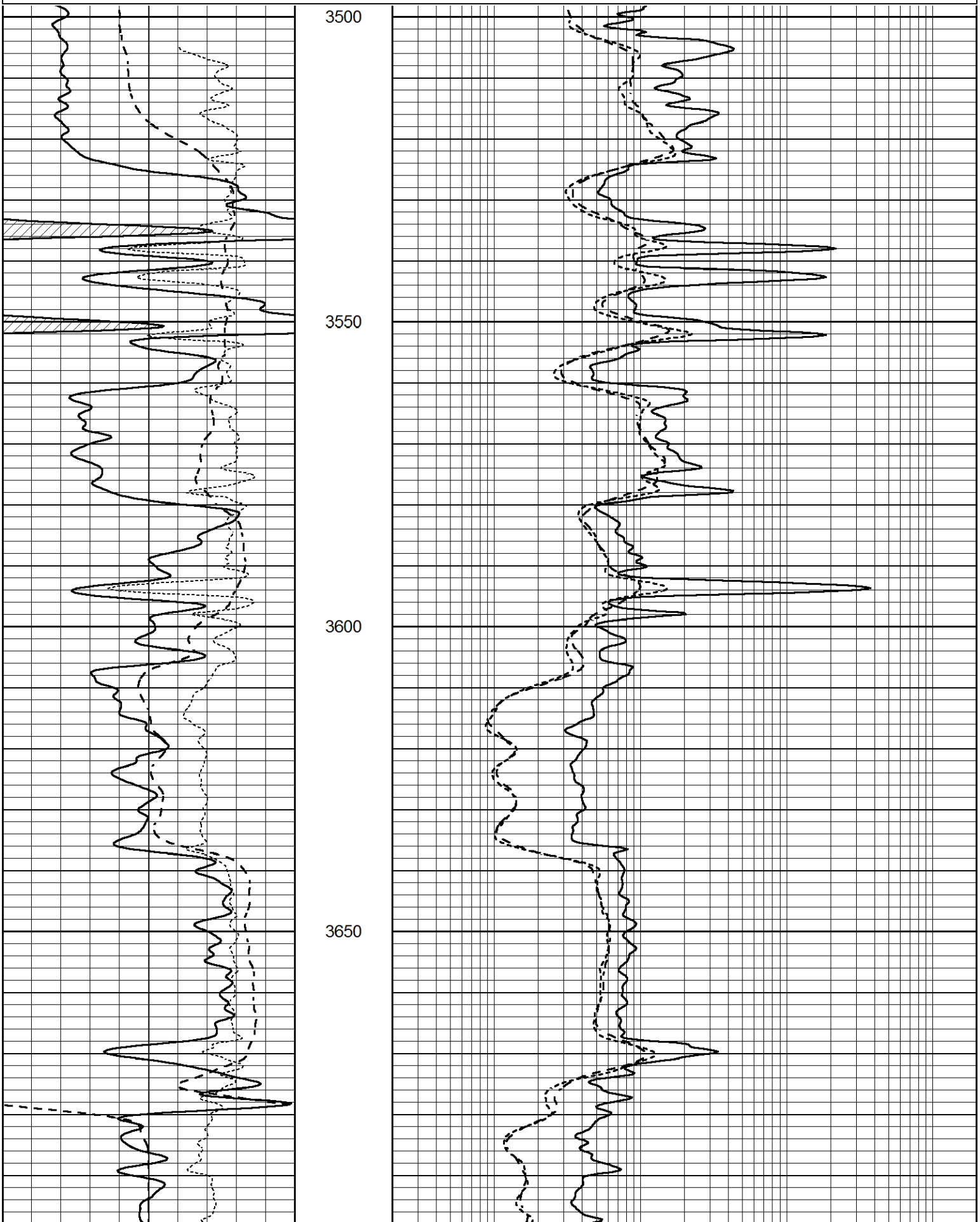
REPEAT SECTION

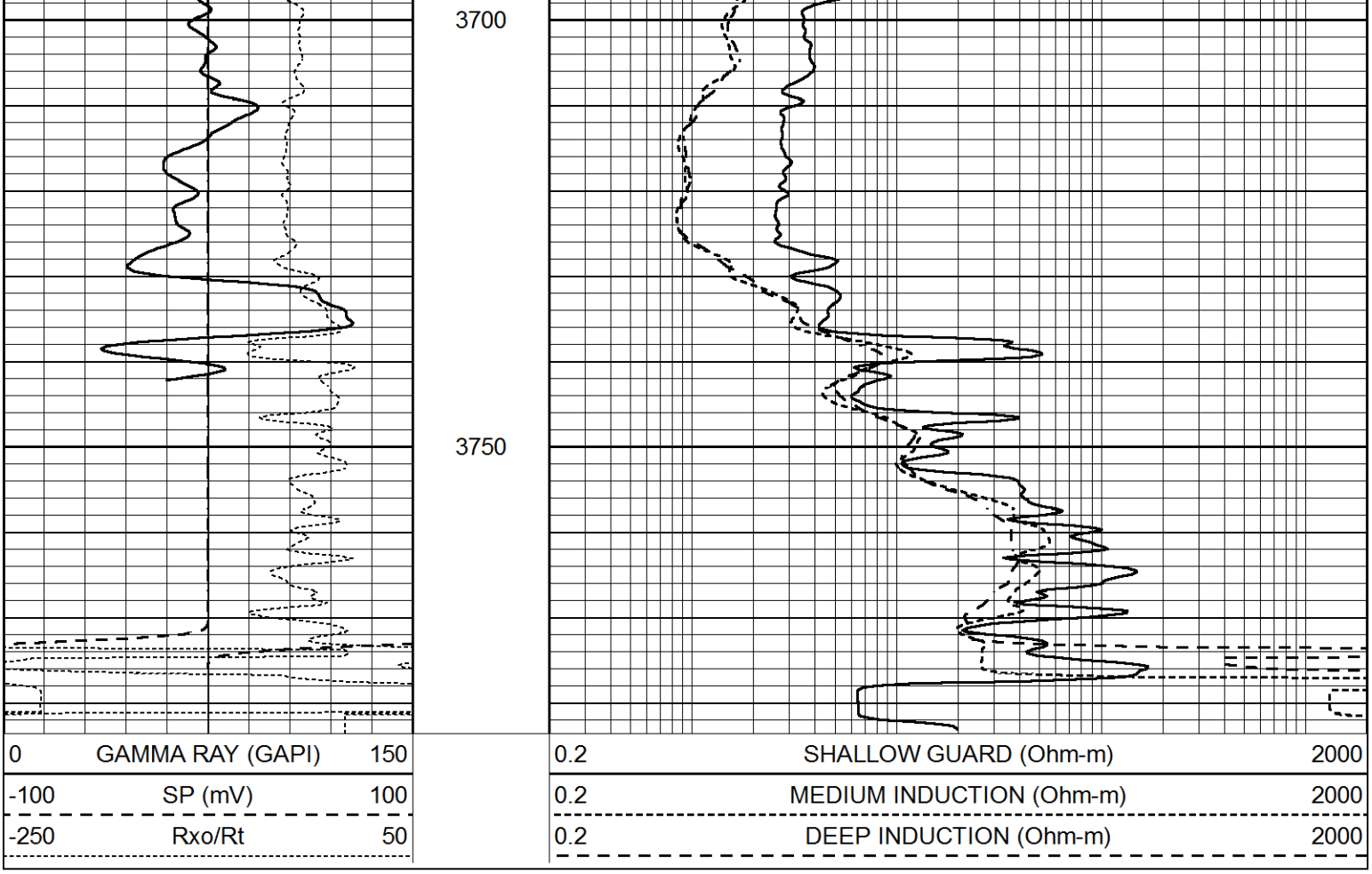
Database File	5238ddn.db
Dataset Pathname	pass2RP
Presentation Format	_dil
Dataset Creation	Sat Nov 14 17:01:28 2020

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	5238ddn.db
Dataset Pathname	pass2RP
Dataset Creation	Sat Nov 14 17:01:28 2020

Dual Induction Calibration Report

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Tue Feb 19 11:44:18 2019
Downhole Cal Performed:	Tue Feb 19 11:44:24 2019
After Survey Verification Performed:	Tue Feb 19 11:44:27 2019

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		

Litho Density Calibration Report

Serial: 140703
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Fri Oct 30 10:28:51 2020

	Background	Aluminum	Magnesium	
Window 1	542.44	5567.78	24103.74	cps
Window 2	44.66	1254.11	5862.88	cps
Window 4	233.89	1249.47	5395.29	cps
Window 5	561.63	8508.97	16290.56	cps
Window 6	44.30	1445.42	2841.86	cps
Window 8	267.45	2710.48	5092.88	cps
Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha:	: -1.8545	SS Alpha:	: -0.7763	LS CPE:	: 1.1359
LS Beta:	: 130052.2542	SS Beta:	: 19130.5414	SS CPE:	: 1.4655

Before Survey Backround Counts Verification

Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

After Survey Background Counts Verification

Performed: Wed Dec 31 18:00:00 1969

Window 1	0.00	cps
Window 2	0.00	cps
Window 4	0.00	cps
Window 5	0.00	cps
Window 6	0.00	cps
Window 8	0.00	cps

Lithodensity Caliper Calibration

Performed: Fri Oct 30 10:28:51 2020

Results		Readings		References (in)			
Low	High	Low	High	Gain	Offset
4564.4	7712.2	8.0	14.0	0.0	-0.3

Before Survey Caliper Verification

Performed:

	Reference	Reading

	_____	_____
Caliper (in)		

After Survey Caliper Verification Performed:

	Reference	Reading
	_____	_____
Caliper (in)		

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 Dec 10 10:02:55 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4800	GAPI/cps