DUAL INDUCTION LOG

Company John O Farmer Inc.
Well Clack Unit #1
Field Morel
County Graham State Kansas

Location: API # : 15 065 24218

245' FNL & 4290' FEL

SEC 16 TWP 9S RGE 21W

Other Services
CDNL
ML

Elevation

Permanent Datum	Ground Level	Elevation	2227'
Log Measured From	KB 8' AGL		
Drilling Measured From	KB		

K.B. 2235'
D.F. 2234'
G.L. 2227'

Date	6/27/22		
Run Number	One		
Depth Driller	3810'		
Depth Logger	3814'		
Bottom Logged Interval	3812'		
Top Log Interval	Surface		
Casing Driller	8 5/8" @ 223'		
Casing Logger	223'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.2/57		
pH / Fluid Loss	10.5/8.0		
Source of Sample	Calculated		
Rm @ Meas. Temp	1.4@70degf		
Rmf @ Meas. Temp	1.1@70degf		
Rmc @ Meas. Temp	1.8@70degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	.85@116degf		
Time Circulation Stopped	3:00 p.m		
Time Logger on Bottom	4:45 p.m		
Maximum Recorded Temperature	116degf		
Equipment Number	T-127		
Location	Hays, KS		
Recorded By	C.Patterson		
Witnessed By	Austin Klaus		

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Comments

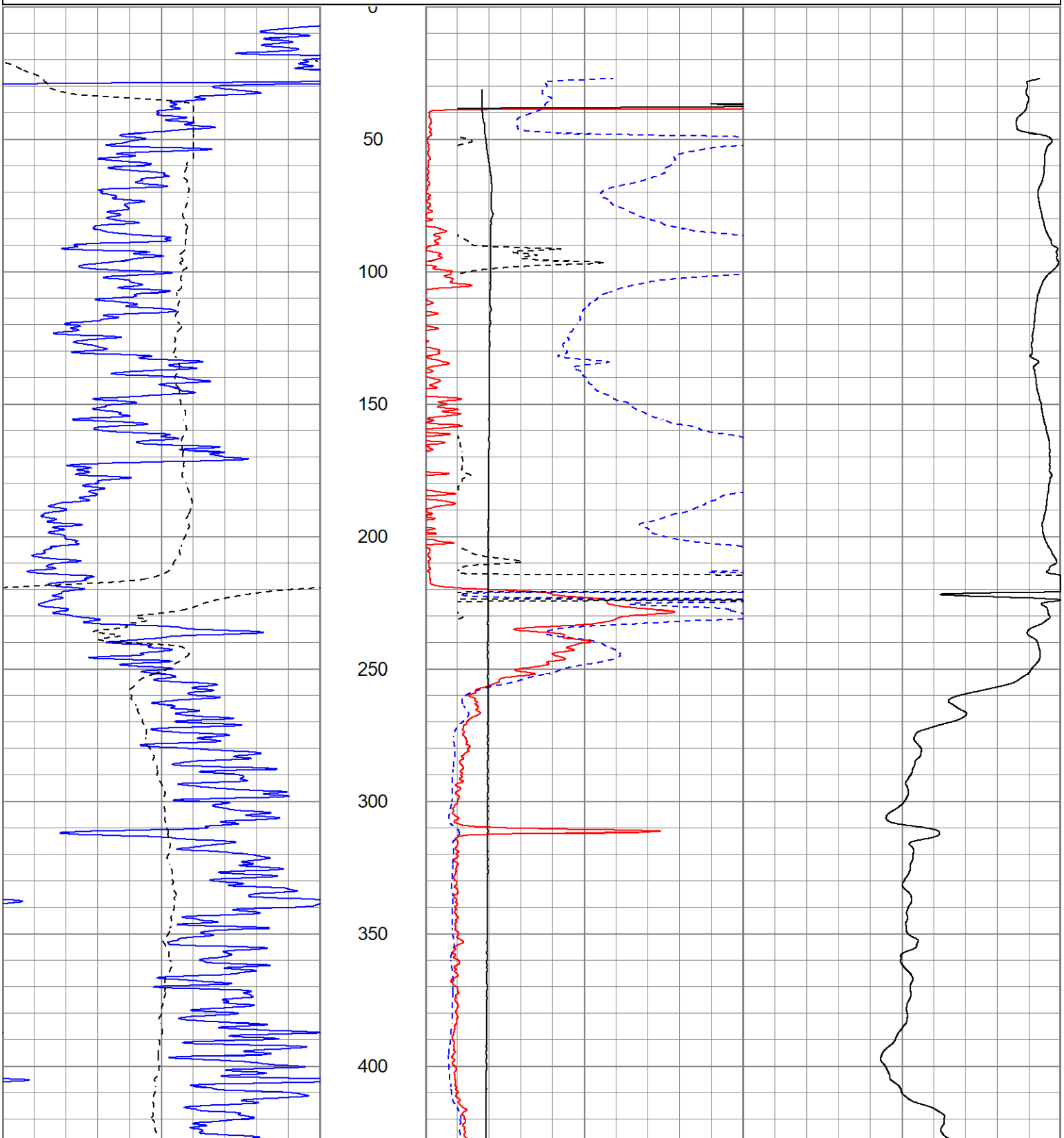
South of Palco,KS to Red Line Road(X Rd.), West 5 mi to 370th Rd,
North on 370th3 mi to K Rd, West on K Rd 1.5 mi,
South into Location
Thanks for using Gemini Wireline LLC
785-625-1182

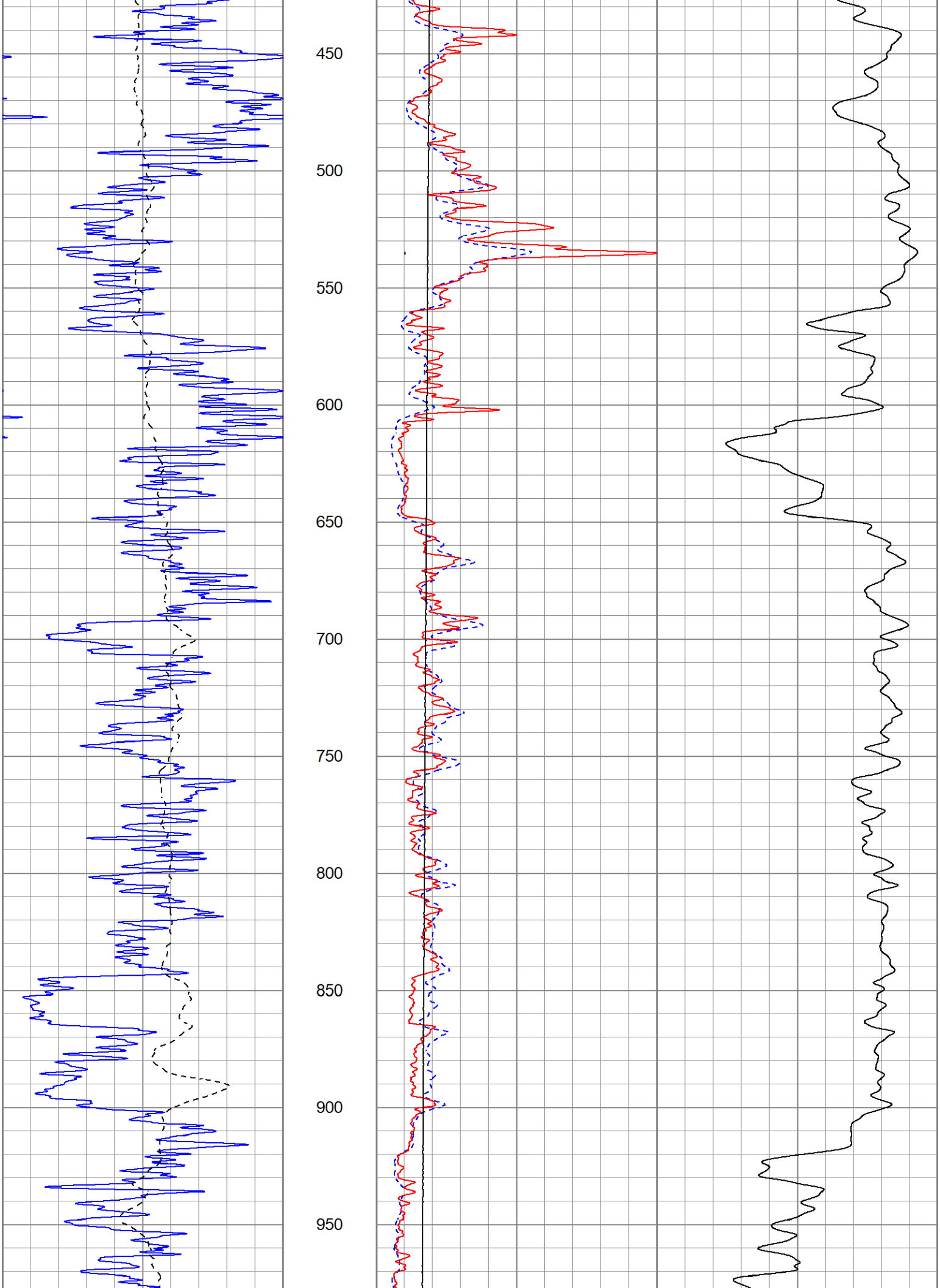
MAIN PASS

Database File	jofclackunit#1oh.db
Dataset Pathname	pass2.1
Presentation Format	kdillinn
Dataset Creation	Mon Jun 27 18:00:30 2022
Charted by	Depth in Feet scaled 1:600

0	GR (GAPI)	150
-100	SP (mV)	100

1000	CILD (mmho/m)	0
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

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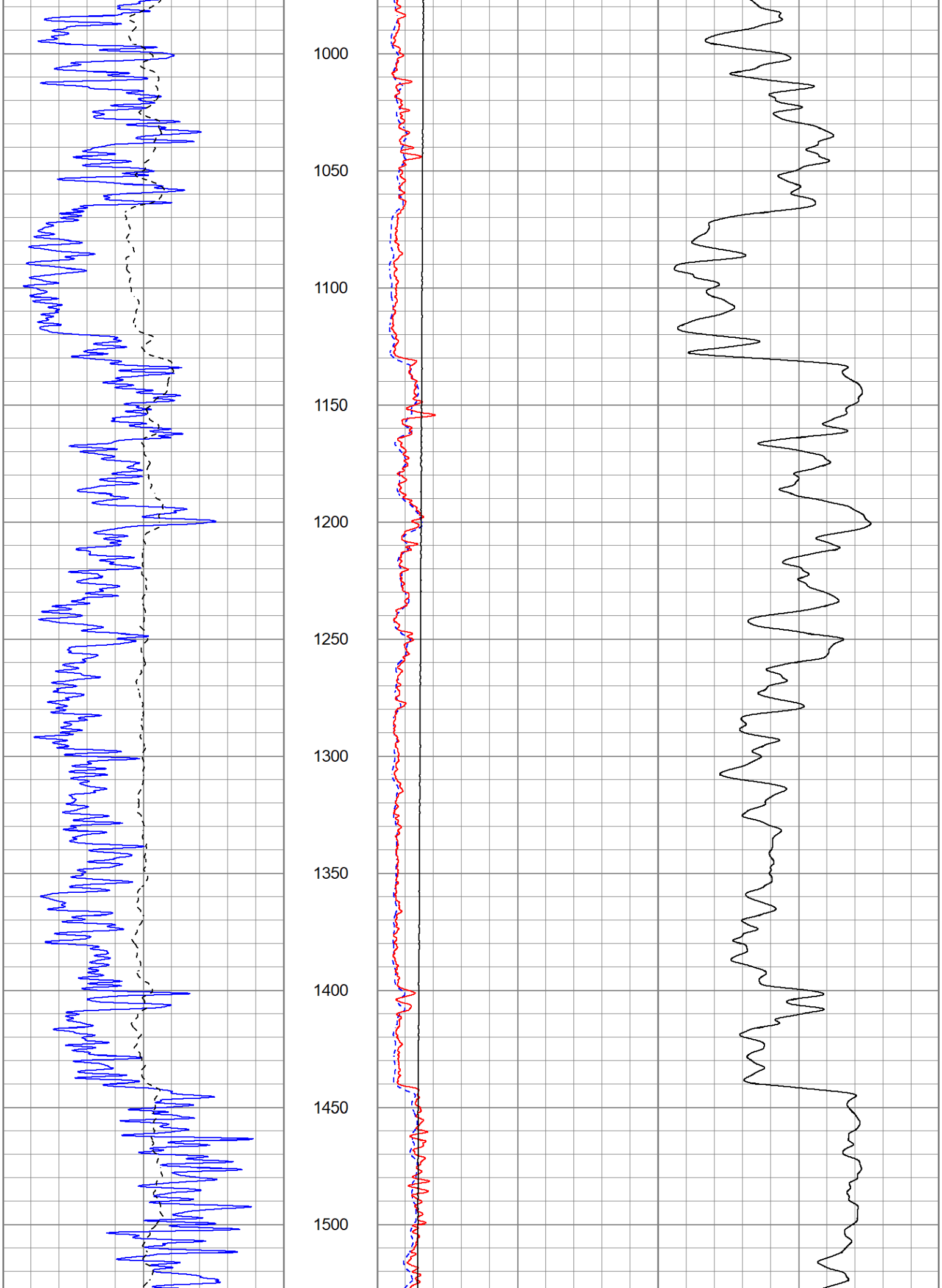
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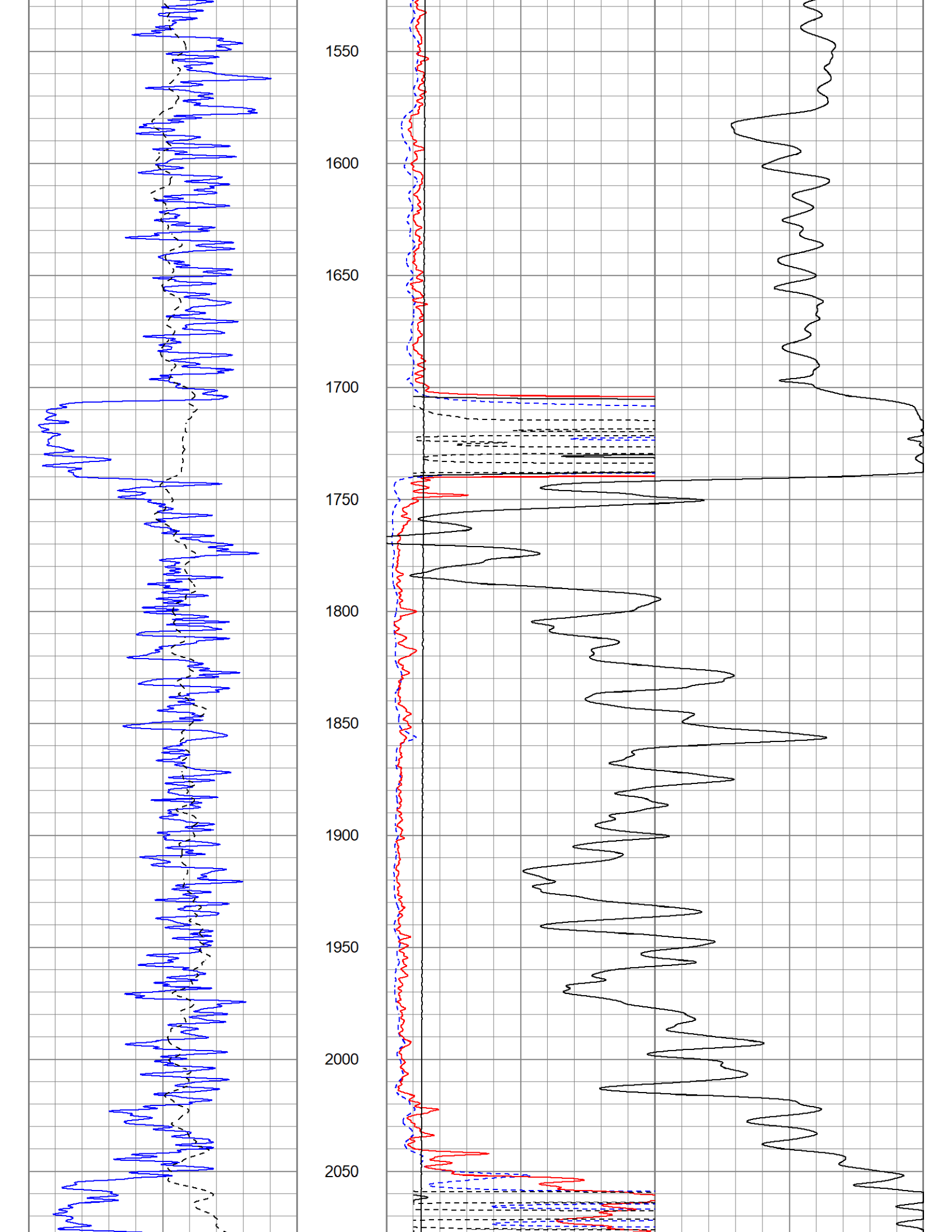
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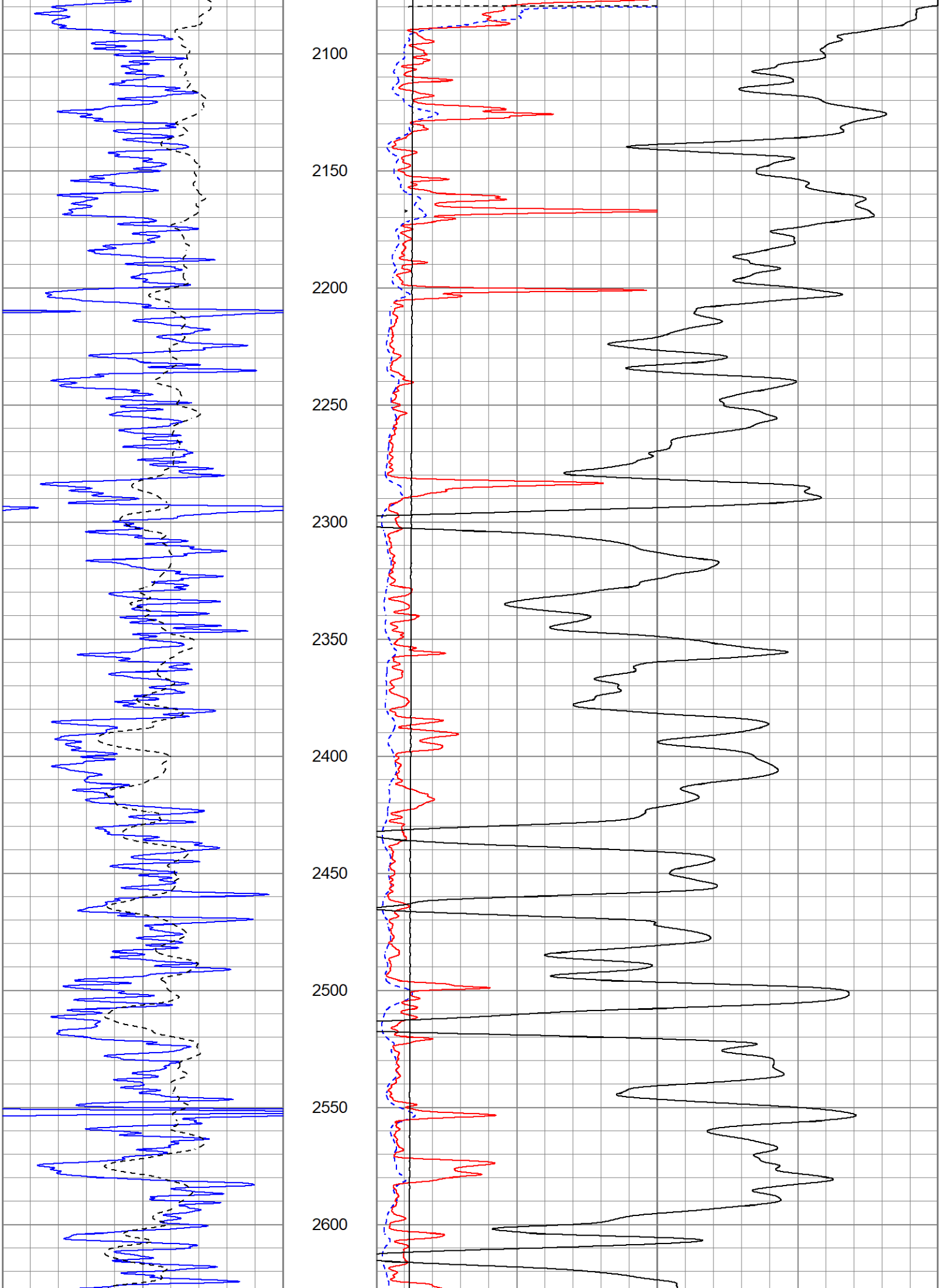
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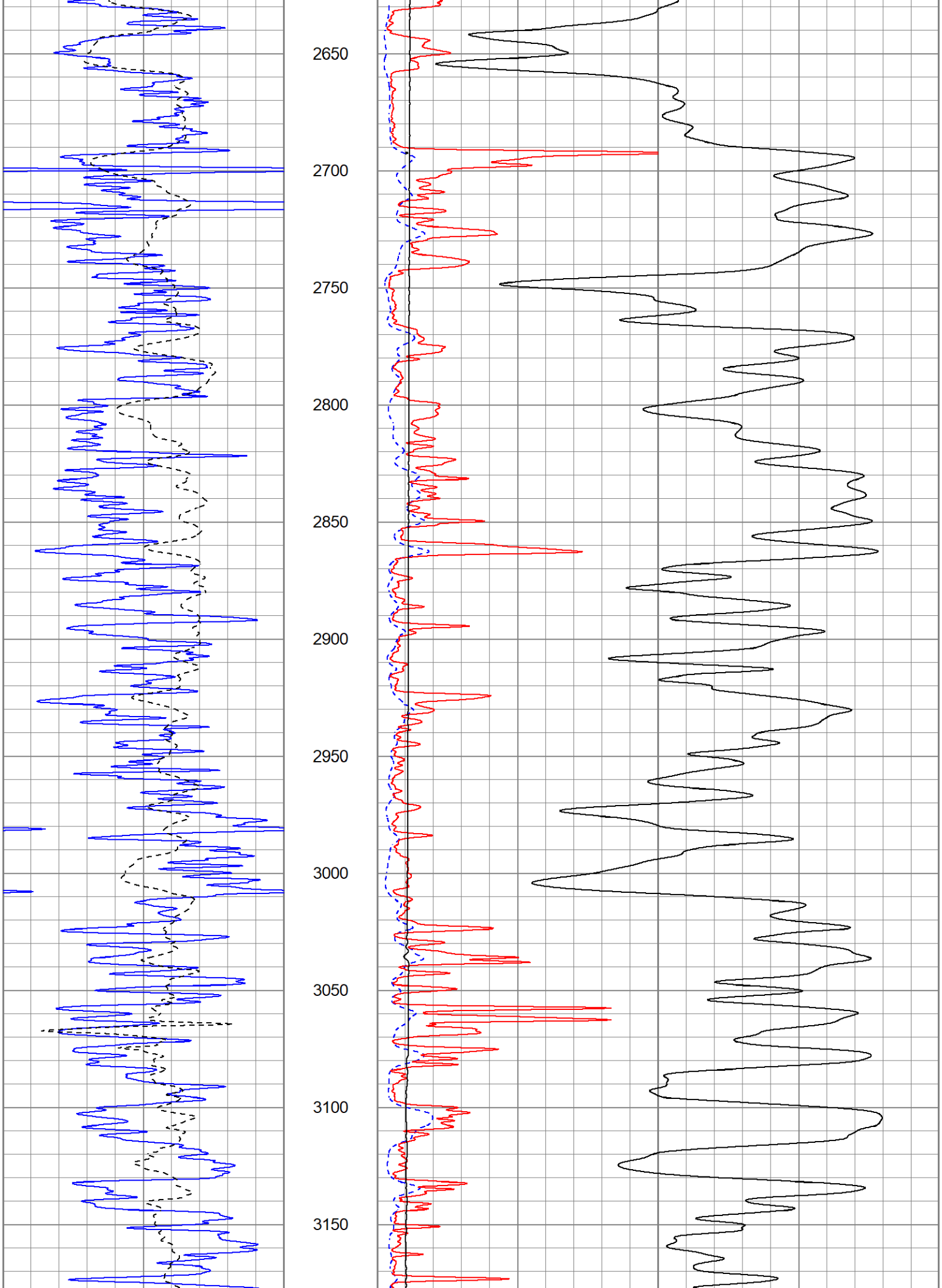
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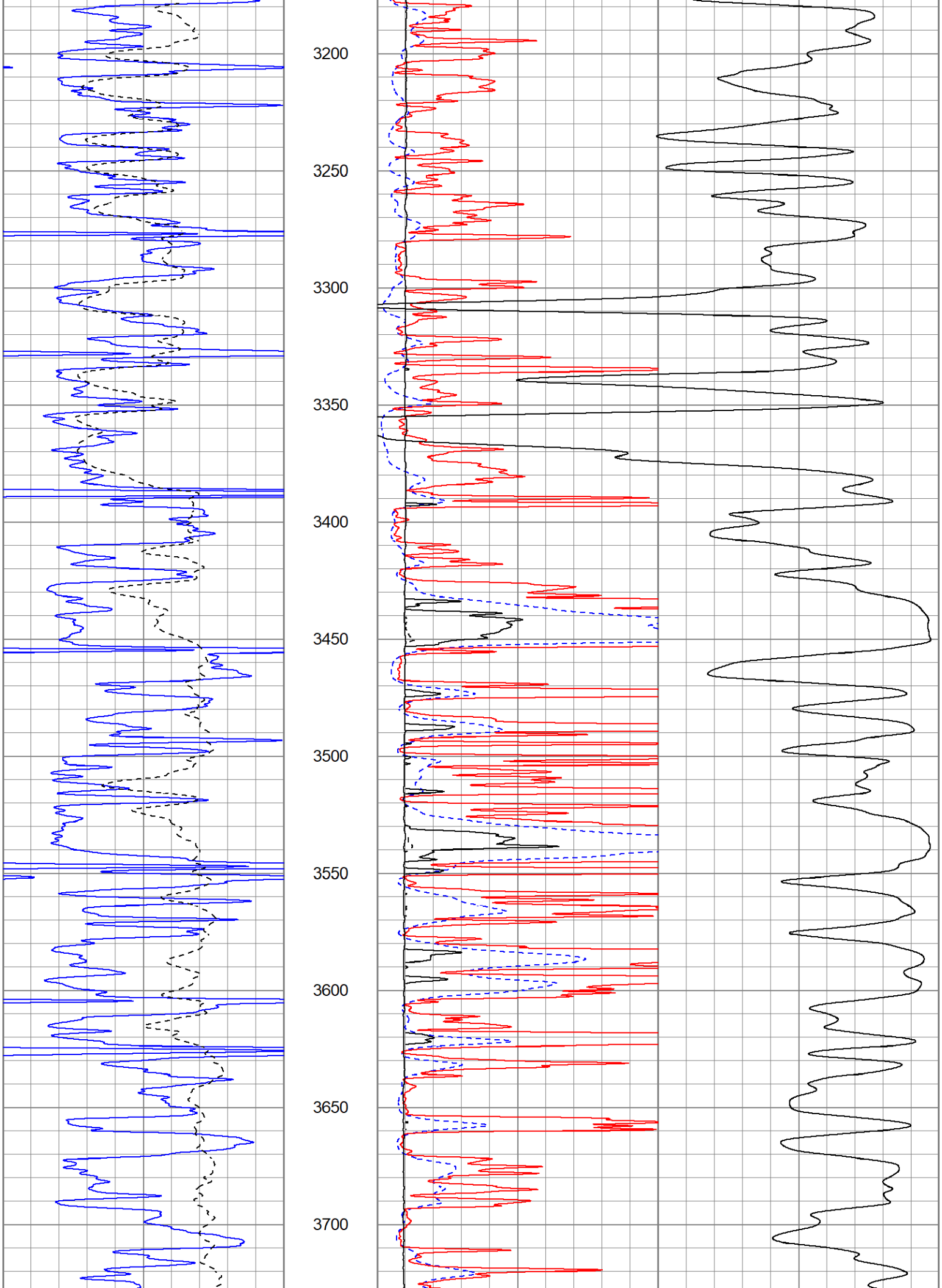
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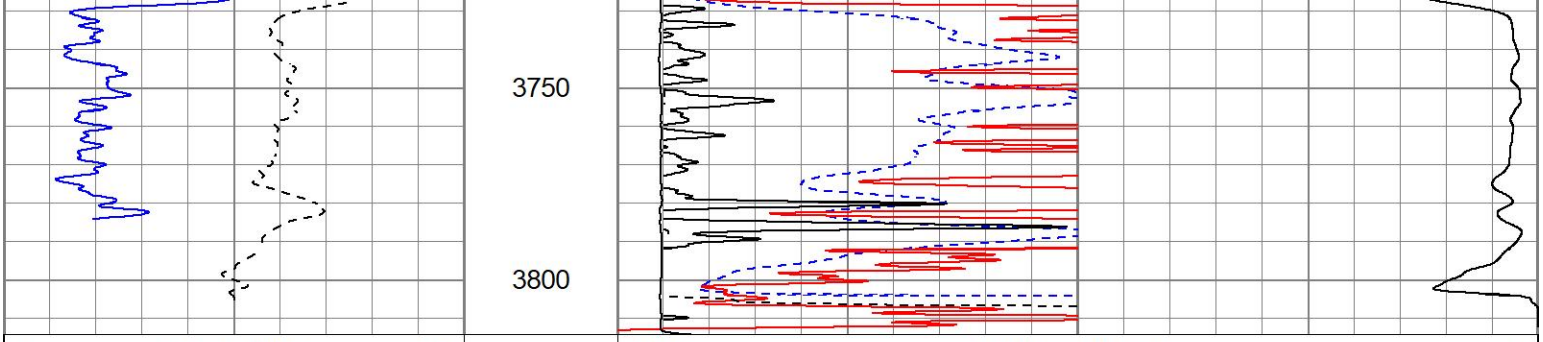

0	GR (GAPI)	150
-100	SP (mV)	100

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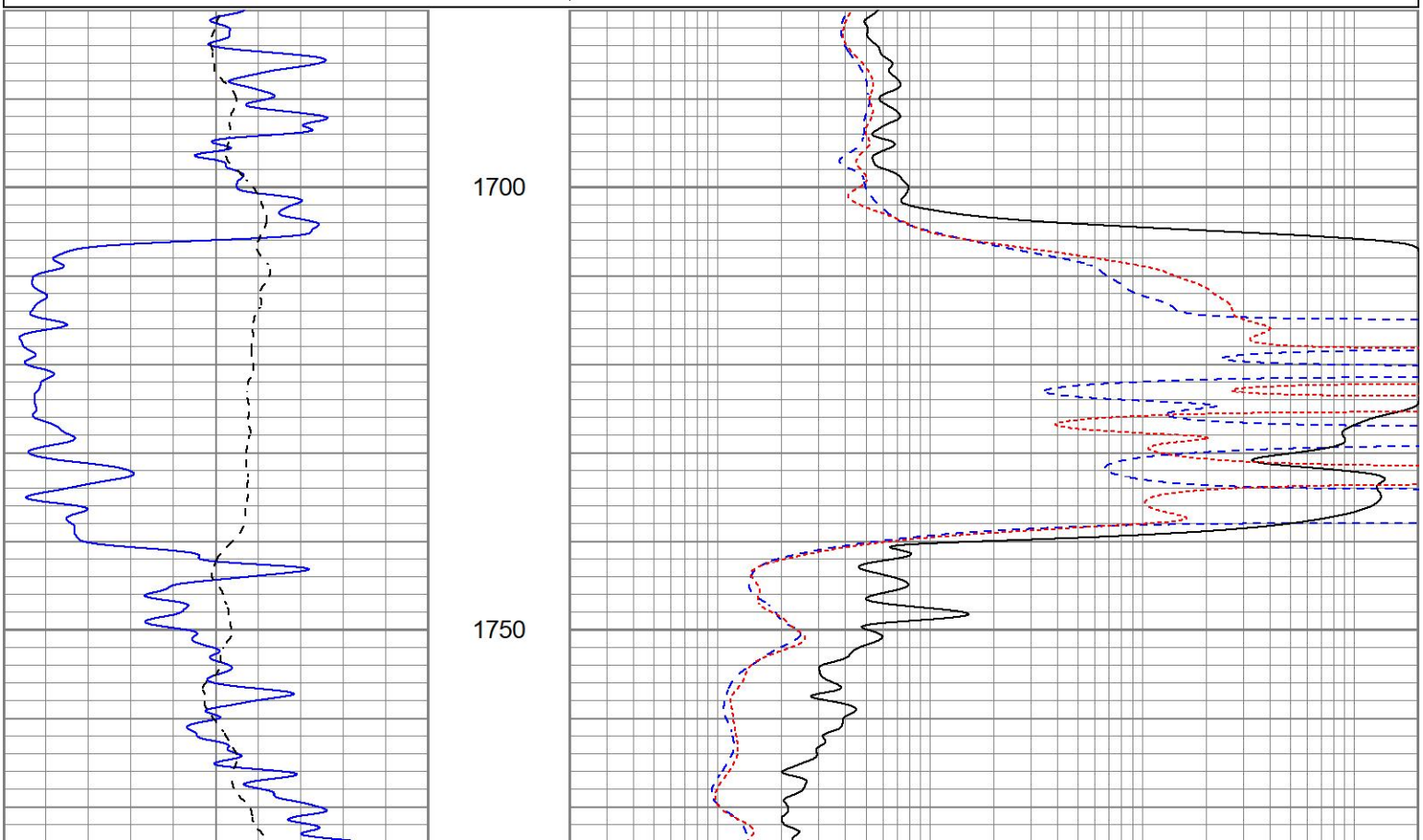
10000	LTEN (lb)	0
0	RILD (Ohm-m)	50
0	RLL3 (Ohm-m)	50
50	RILD x 10 (Ohm-m)	500
50	RLL3 x 10 (Ohm-m)	500

MAIN PASS

Database File	jofclackunit#1oh.db
Dataset Pathname	pass2.1
Presentation Format	kdil
Dataset Creation	Mon Jun 27 18:00:30 2022
Charted by	Depth in Feet scaled 1:240

0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000



0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

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Database File	jofclackunit#1oh.db
Dataset Pathname	pass2.1
Presentation Format	kdil
Dataset Creation	Mon Jun 27 18:00:30 2022
Charted by	Depth in Feet scaled 1:240

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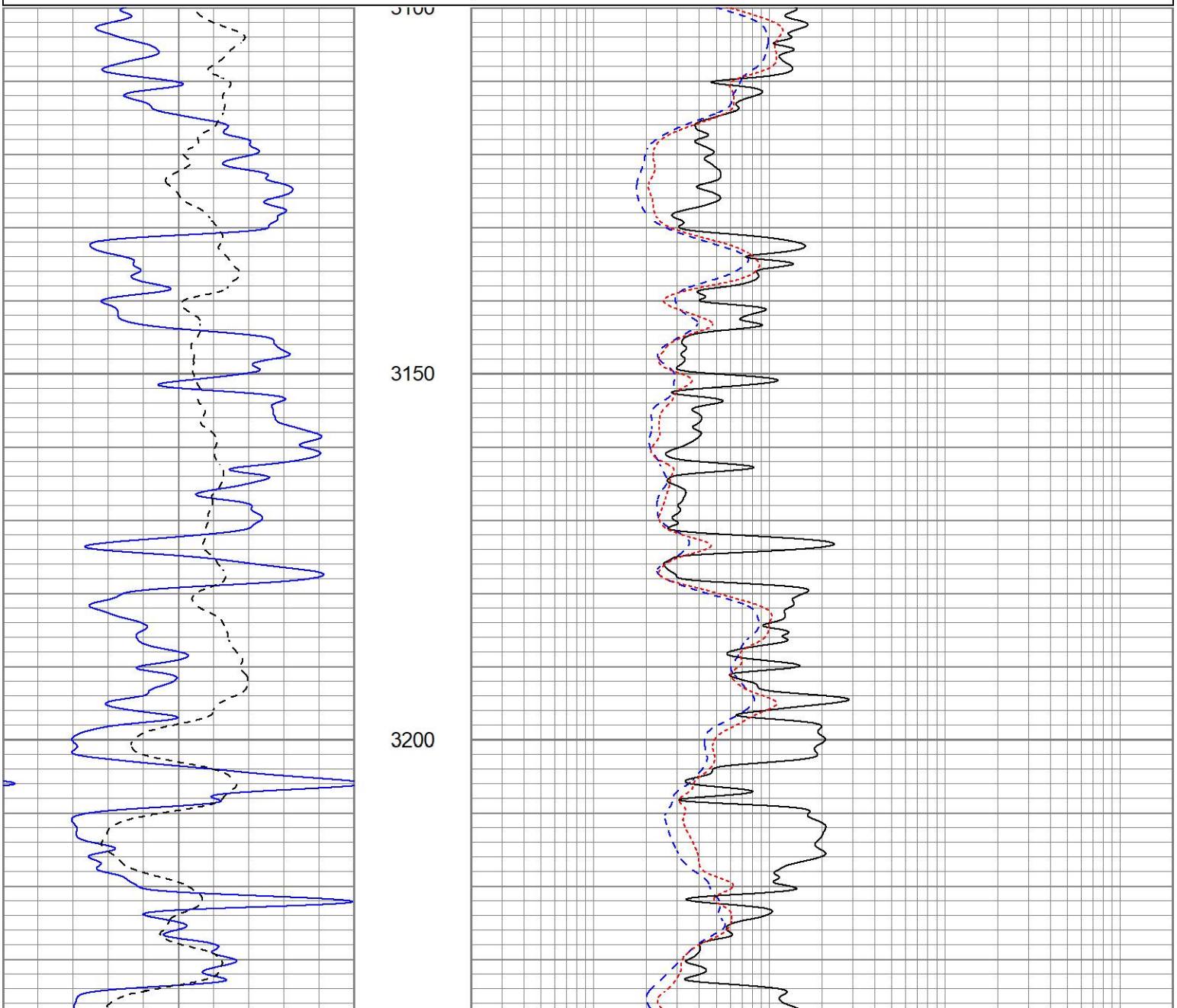
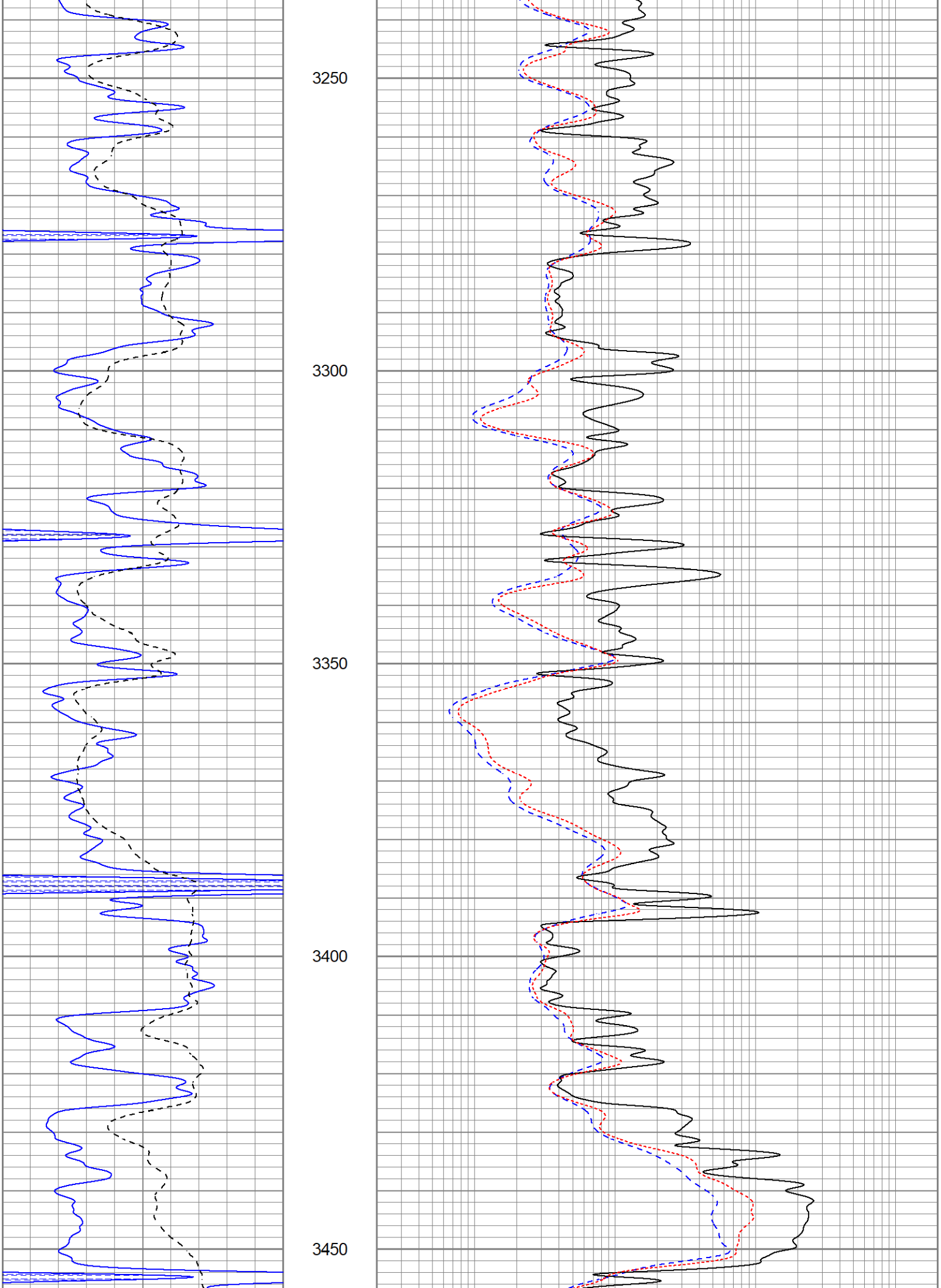
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
0.2	RILM (Ohm-m)	2000

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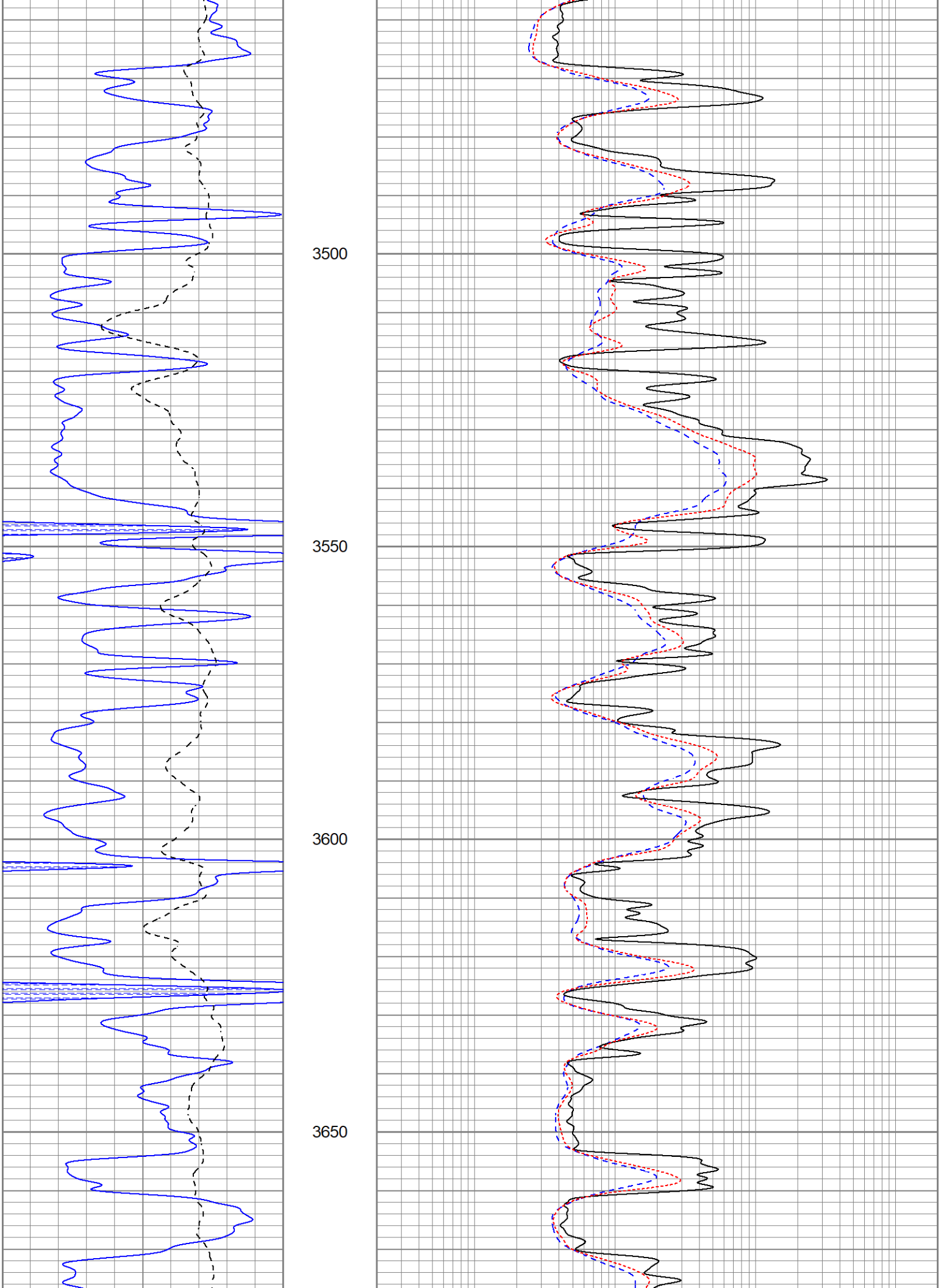
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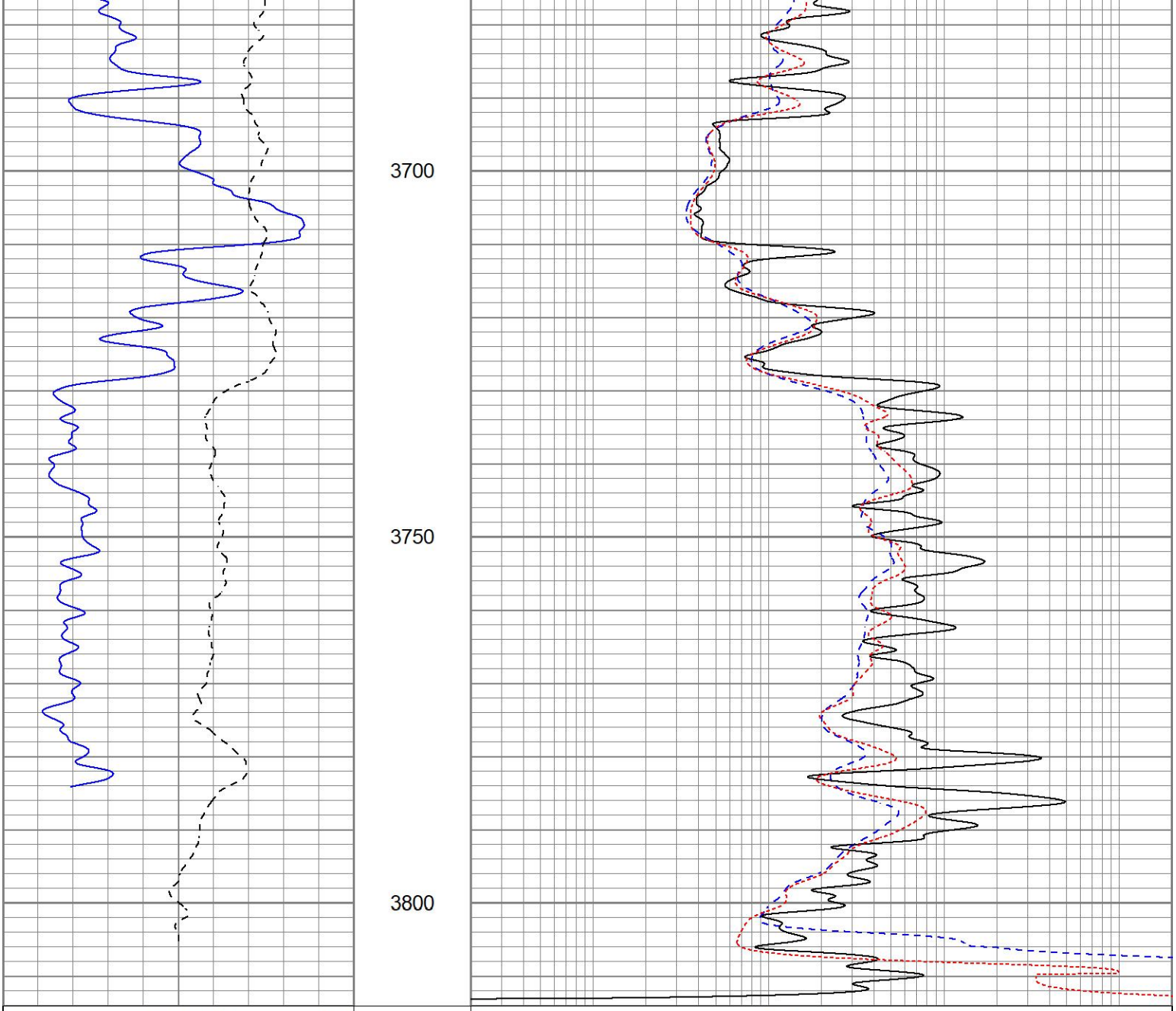
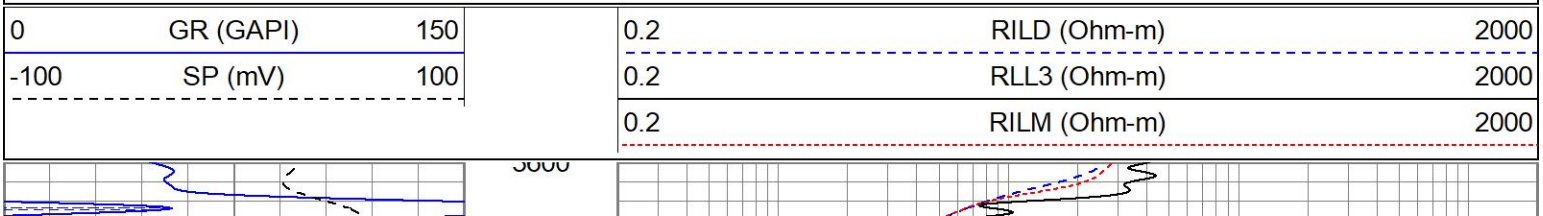
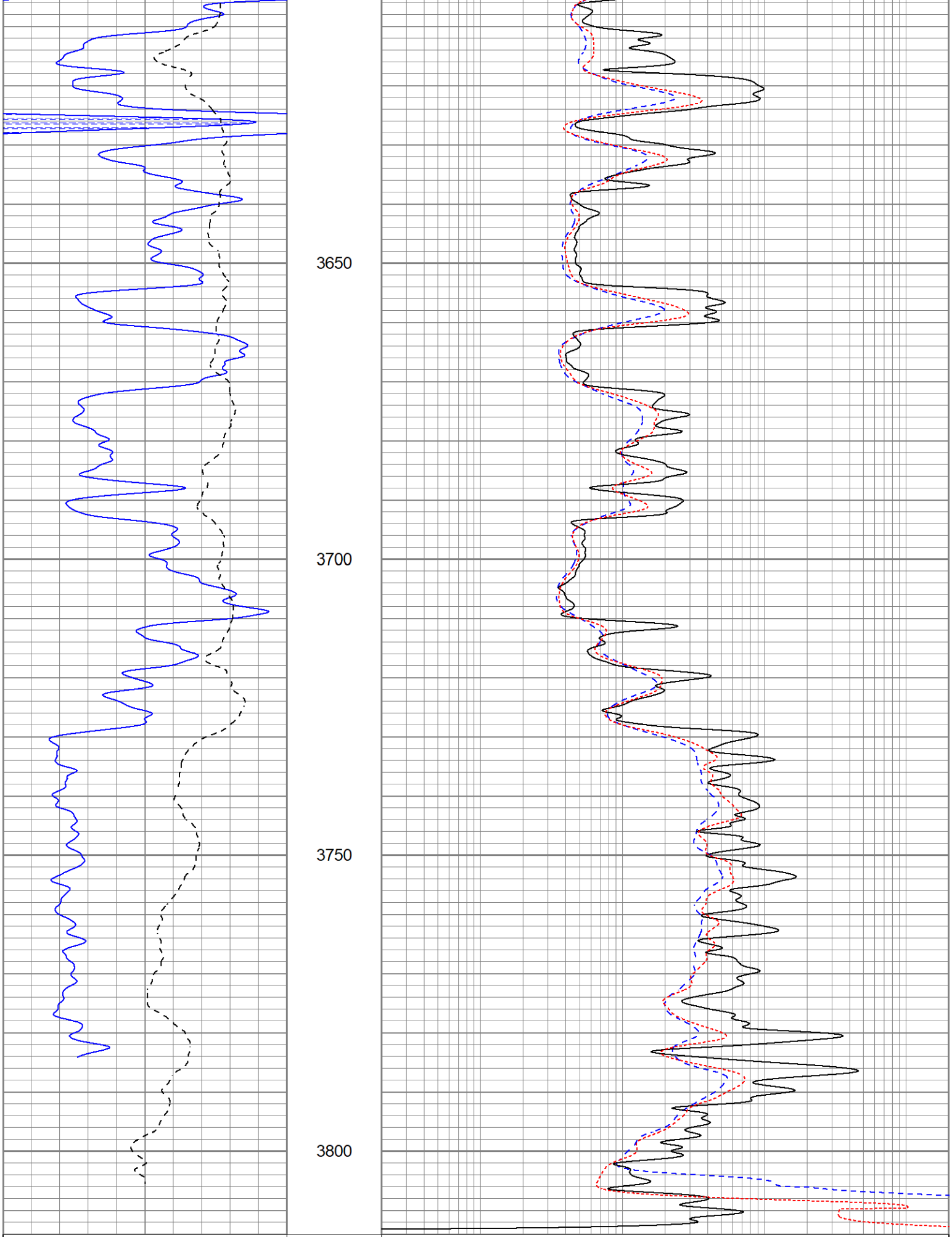


GEMINI WIRELINE

REPEAT SECTION

Database File	jofclackunit#1oh.db
Dataset Pathname	pass1.2
Presentation Format	kdil
Dataset Creation	Mon Jun 27 17:58:38 2022
Charted by	Depth in Feet scaled 1:240





0	GR (GAPI)	150
-100	SP (mV)	100

0.2	RILD (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000

0.2	RILM (Ohm-m)	2000

Calibration Report

Database File jofclackunit#1oh.db
Dataset Pathname pass2.1
Dataset Creation Mon Jun 27 18:00:30 2022

Dual Induction Calibration Report

Serial-Model: 0352-ADM
Surface Cal Performed: Mon Sep 20 22:00:42 2021
Downhole Cal Performed: Wed Mar 30 09:59:17 2022
After Survey Verification Performed: Wed Mar 30 09:59:17 2022

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.475	-9.896
Medium	0.003	0.769	V	0.000	400.000	mmho/m	522.607	-1.745
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.018	0.672	V	0.000	350.000	mmho/m	535.240	-9.549
Medium	0.003	0.768	V	0.000	550.000	mmho/m	718.637	-2.088

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	-9.739	334.888	mmho/m	-0.343	349.810	mmho/m	1.016	9.552
Medium	-0.093	389.879	mmho/m	-0.226	399.745	mmho/m	1.026	-0.132
Shallow	2.545	0.014	V	500.000	2.000	Ohm-m	200.757	-0.781

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-9.739	334.888	mmho/m	1.016	9.552
Medium	0.000	0.000	mmho/m	-0.093	389.879	mmho/m	1.026	-0.132
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Compensated Density Calibration Report

Serial-Model: 2213TN-Aoilex
Source / Verifier: csv14274c /
Master Calibration Performed: Tue May 3 10:56:34 2022
Before Survey Verification Performed:
After Survey Verification Performed:

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.750	g/cc	793.74	537.95	cps
Aluminum	2.690	g/cc	145.37	342.35	cps

Spine Angle = 75.09

Density/Spine Ratio = 0.535

Size	Reading

Small Ring	8.00	in	1.40	V
Large Ring	14.00	in	2.83	V

Before Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

After Survey Verification

Target		Measured	
	g/cc		g/cc
	g/cc		g/cc
	g/cc		g/cc

Gamma Ray Calibration Report

Serial Number:	2213TN	
Tool Model:	Aoilex	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Neutron Calibration Report

Serial Number:	2301AN	
Tool Model:	Oilex	
Performed:	Tue Jun 28 11:51:54 2016	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps