DUAL INDUCTION LOG

Company BEREXCO LLC
Well ELLEN #1-15
Field BEAUCHAMP NORTH
County STANTON State KS

Location: API # : 15 187 21358

2305' FSL & 2287' FEL

SEC 15 TWP 30S RGE 41W

Other Services
ML
CDNL/SON

Elevation
K.B. 3407
D.F. 3405
G.L. 3394

Permanent Datum Ground Level Elevation 3394
Log Measured From KB 13' AGL
Drilling Measured From KB

Date	2/13/2023		
Run Number	One		
Depth Driller	5600		
Depth Logger	5599		
Bottom Logged Interval	5597		
Top Log Interval	1600		
Casing Driller	8 5/8"@1632'		
Casing Logger	1632'		
Bit Size	7 7/8"		
Type Fluid in Hole	Chemical		
Density / Viscosity	9.3/54		
pH / Fluid Loss	10.0/6.4		
Source of Sample	Pit		
Rm @ Meas. Temp	1.8@60degf		
Rmf @ Meas. Temp	1.35@60degf		
Rmc @ Meas. Temp	2.16@60degf		
Source of Rmf / Rmc	Calculated		
Rm @ BHT	0.89@122degf		
Time Circulation Stopped	7:00 PM		
Time Logger on Bottom	9:00 PM		
Maximum Recorded Temperature	122degf		
Equipment Number	T-605		
Location	HAYS, KS.		
Recorded By	COLBY DREILING		
Witnessed By	KEATON JONES		

<<< Fold Here >>>

Comments

JOHNSON CITY SOUTH ON HWY 27 TO RD 21,
1 WEST, 0.5 SOUTH, WEST INTO.

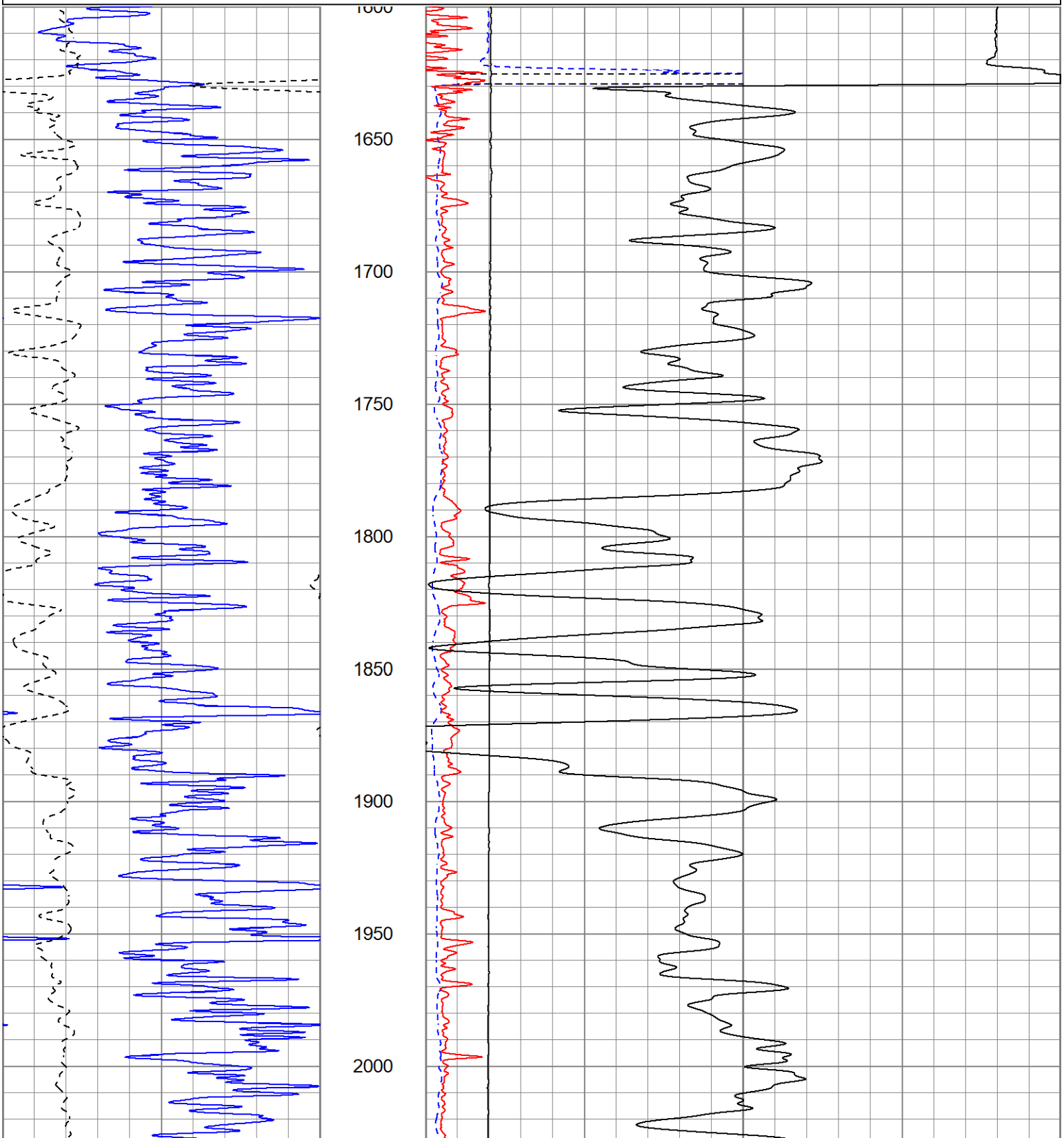
Thanks for using Gemini Wireline LLC
785-625-1182

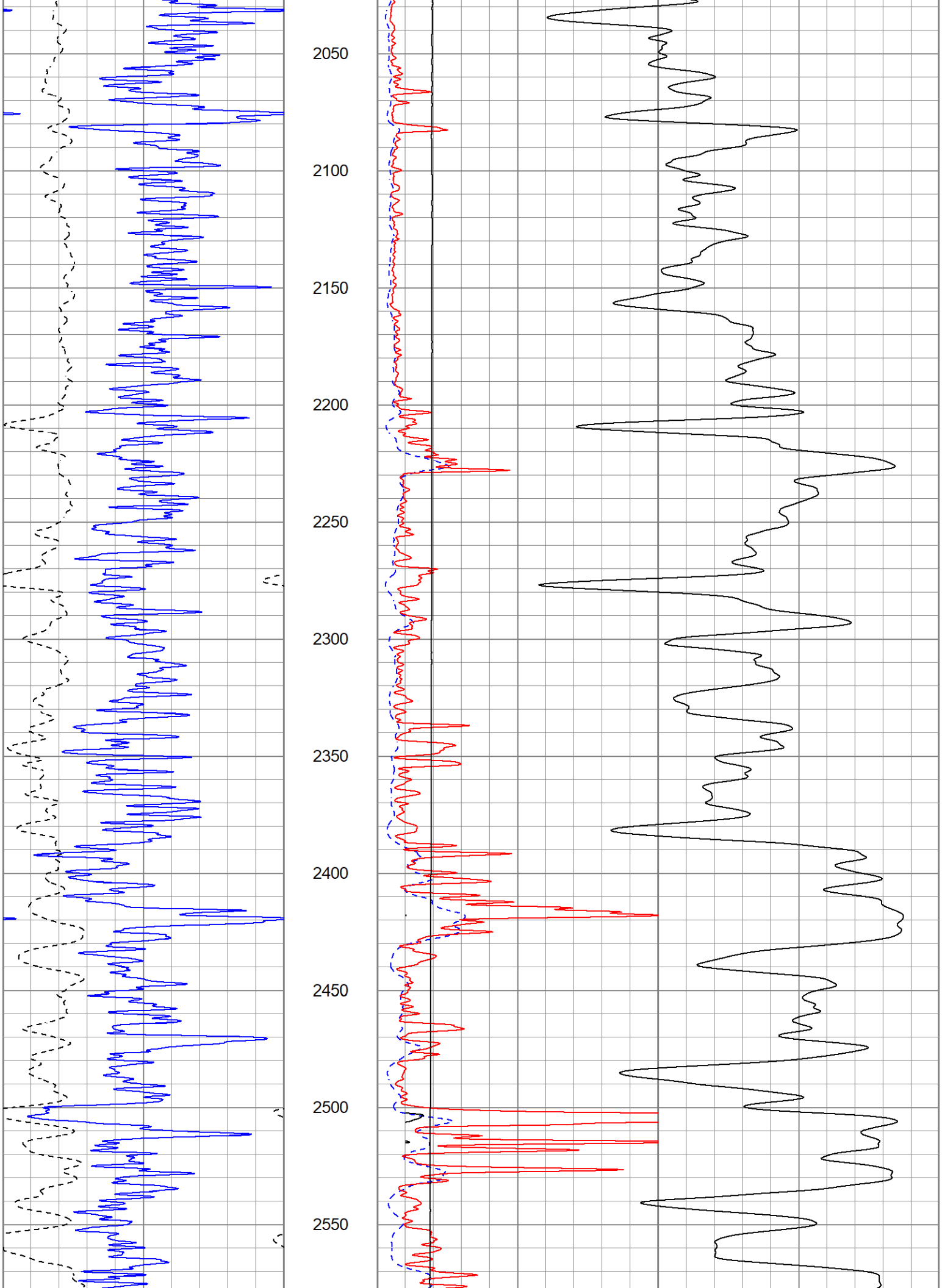
MAIN PASS

Database File	berexcoellen#1-15oh.db
Dataset Pathname	pass3.1
Presentation Format	kdillinn
Dataset Creation	Mon Feb 13 23:26:05 2023
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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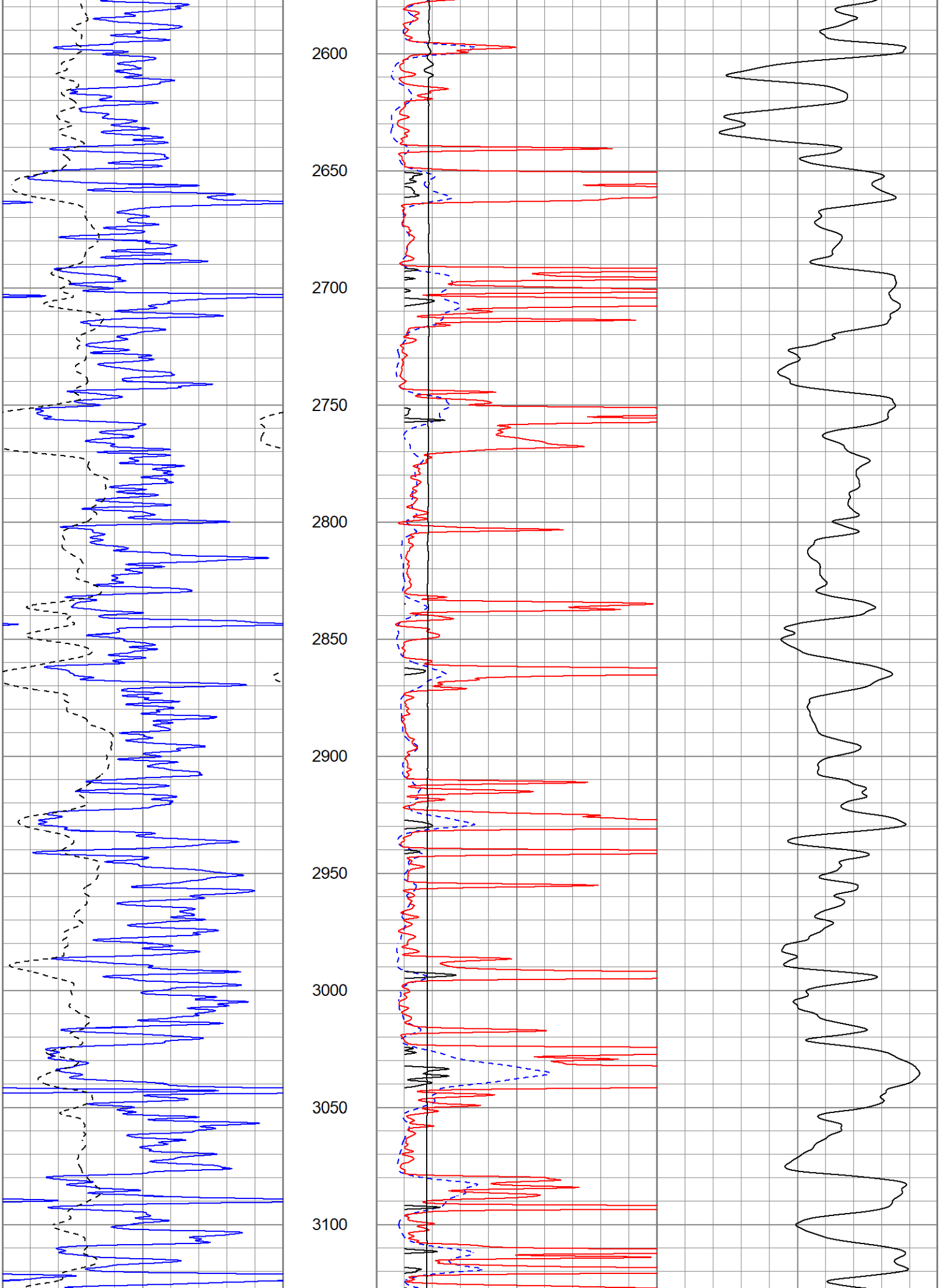
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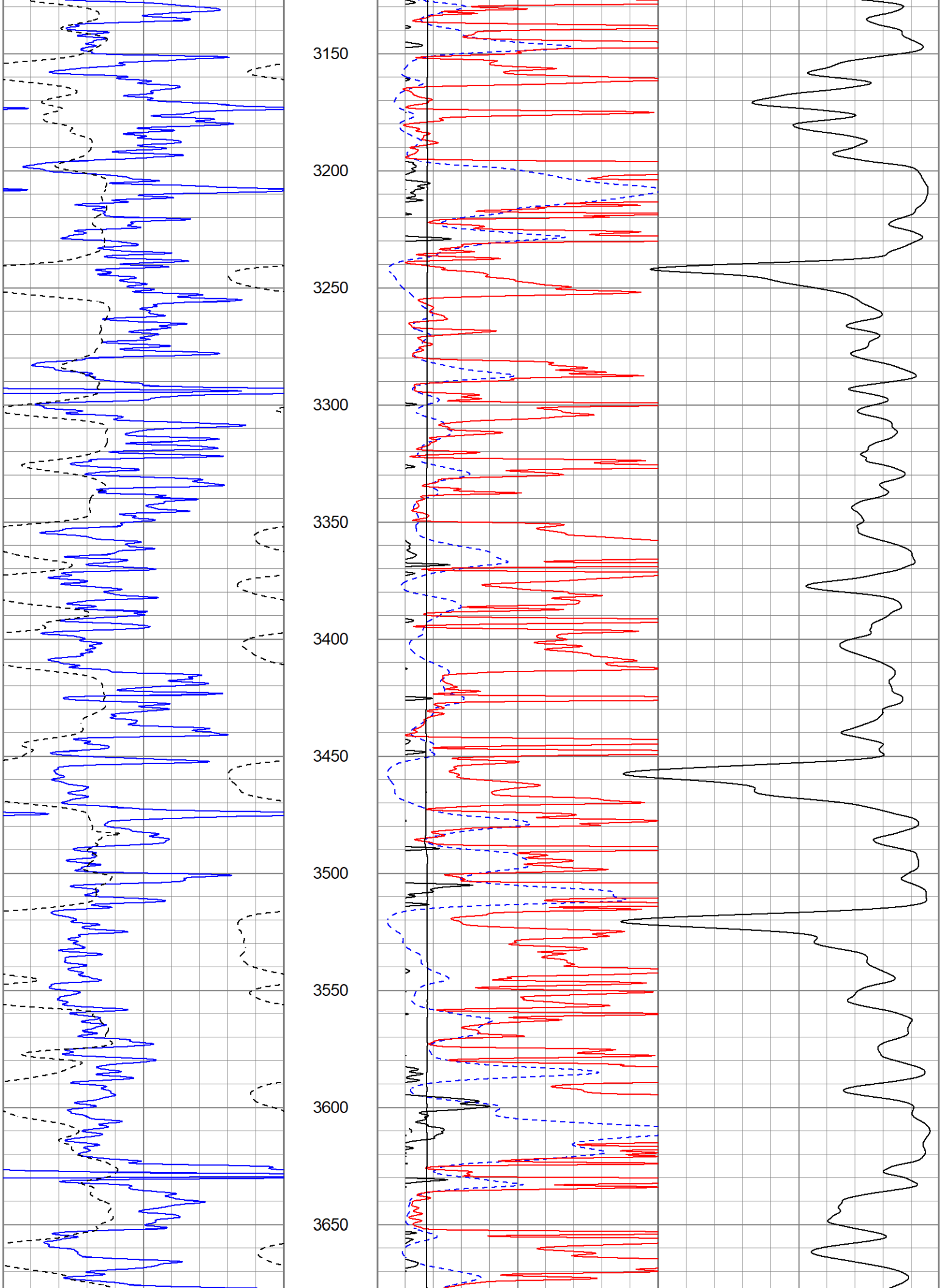
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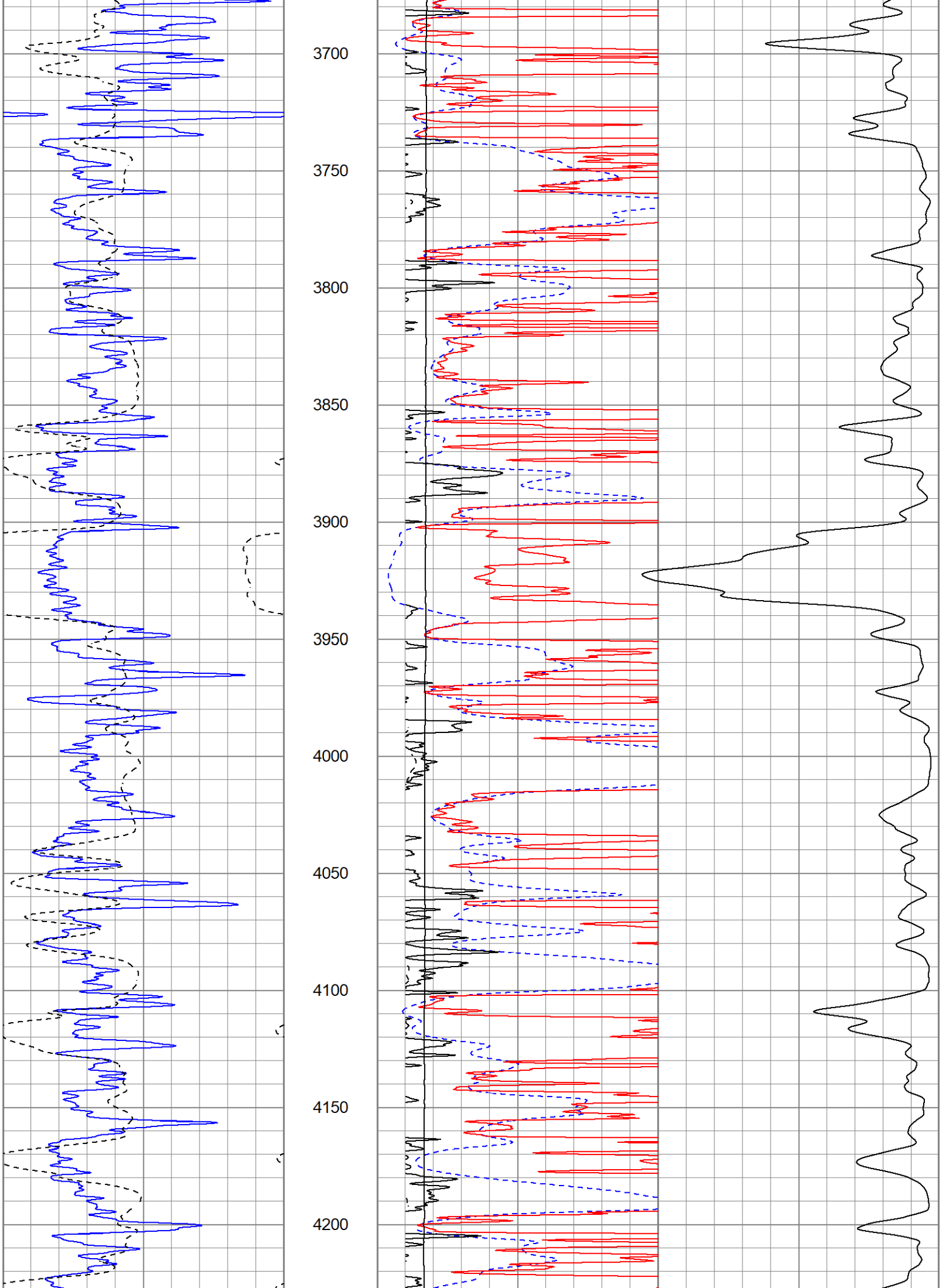
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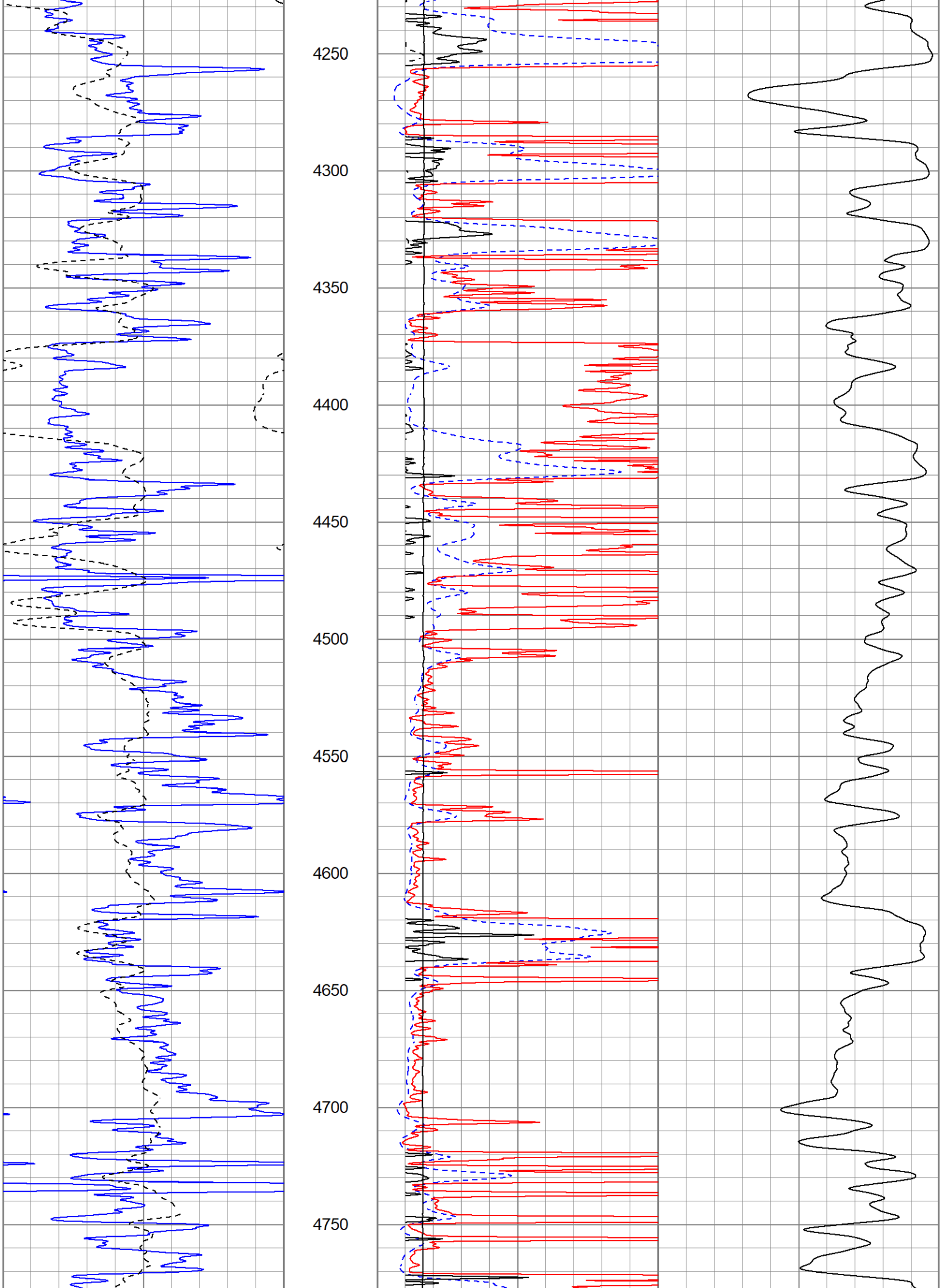
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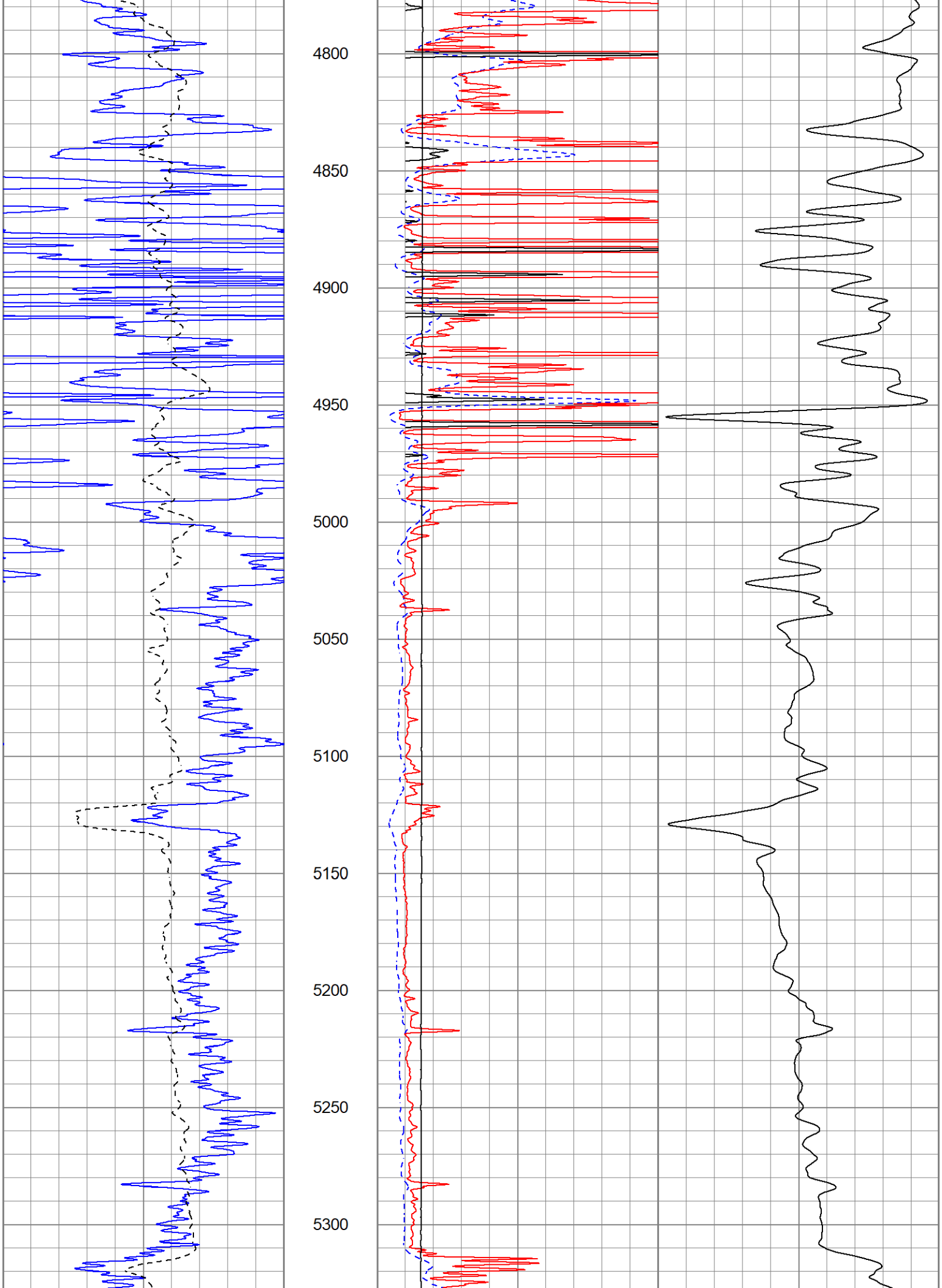
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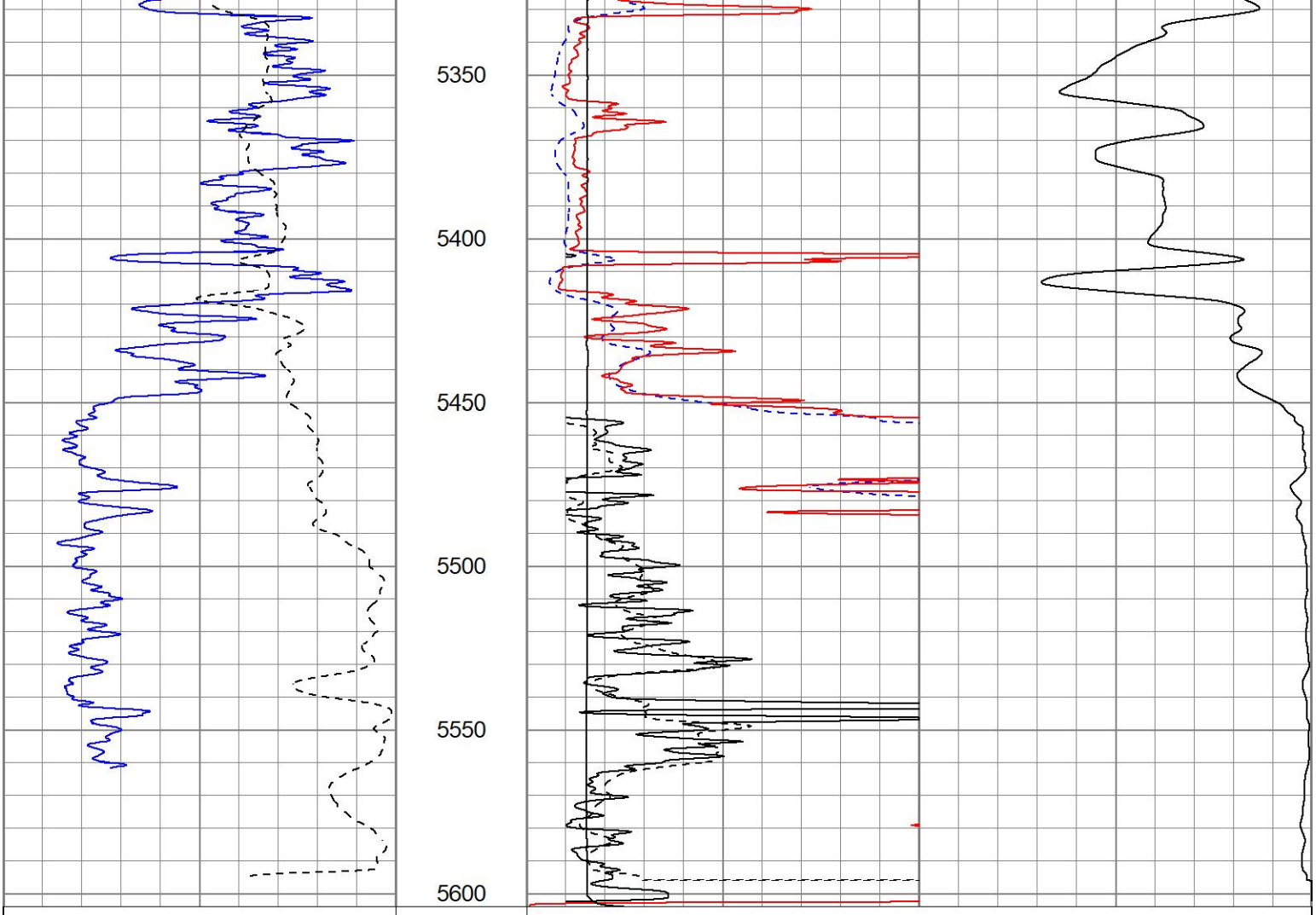


0	GR (GAPI)	150
-100	SP (mV)	100

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

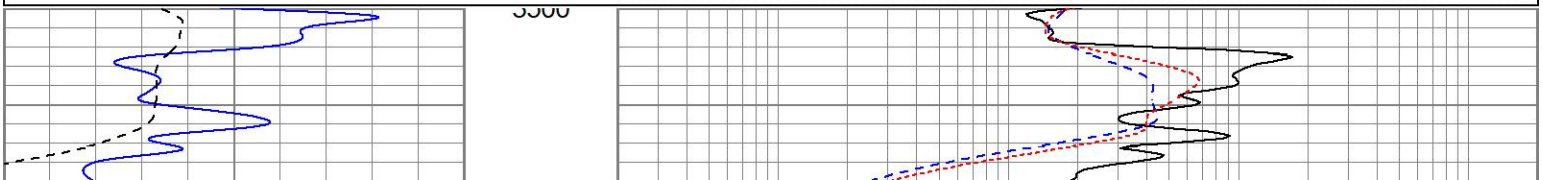
GEMINI WIRELINE

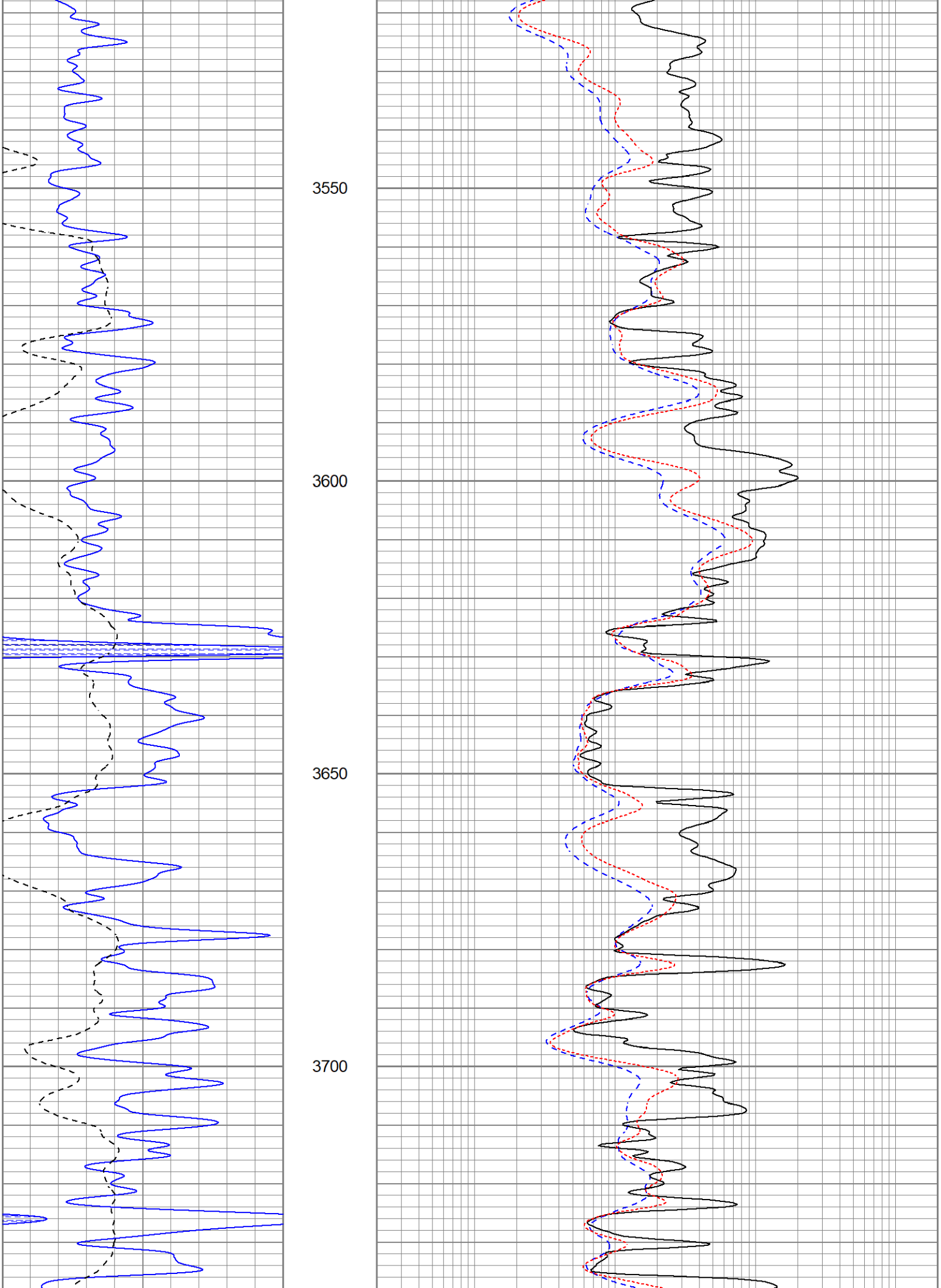
MAIN PASS

Database File	berexcoellen#1-15oh.db
Dataset Pathname	pass3.1
Presentation Format	kdil
Dataset Creation	Mon Feb 13 23:26:05 2023
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

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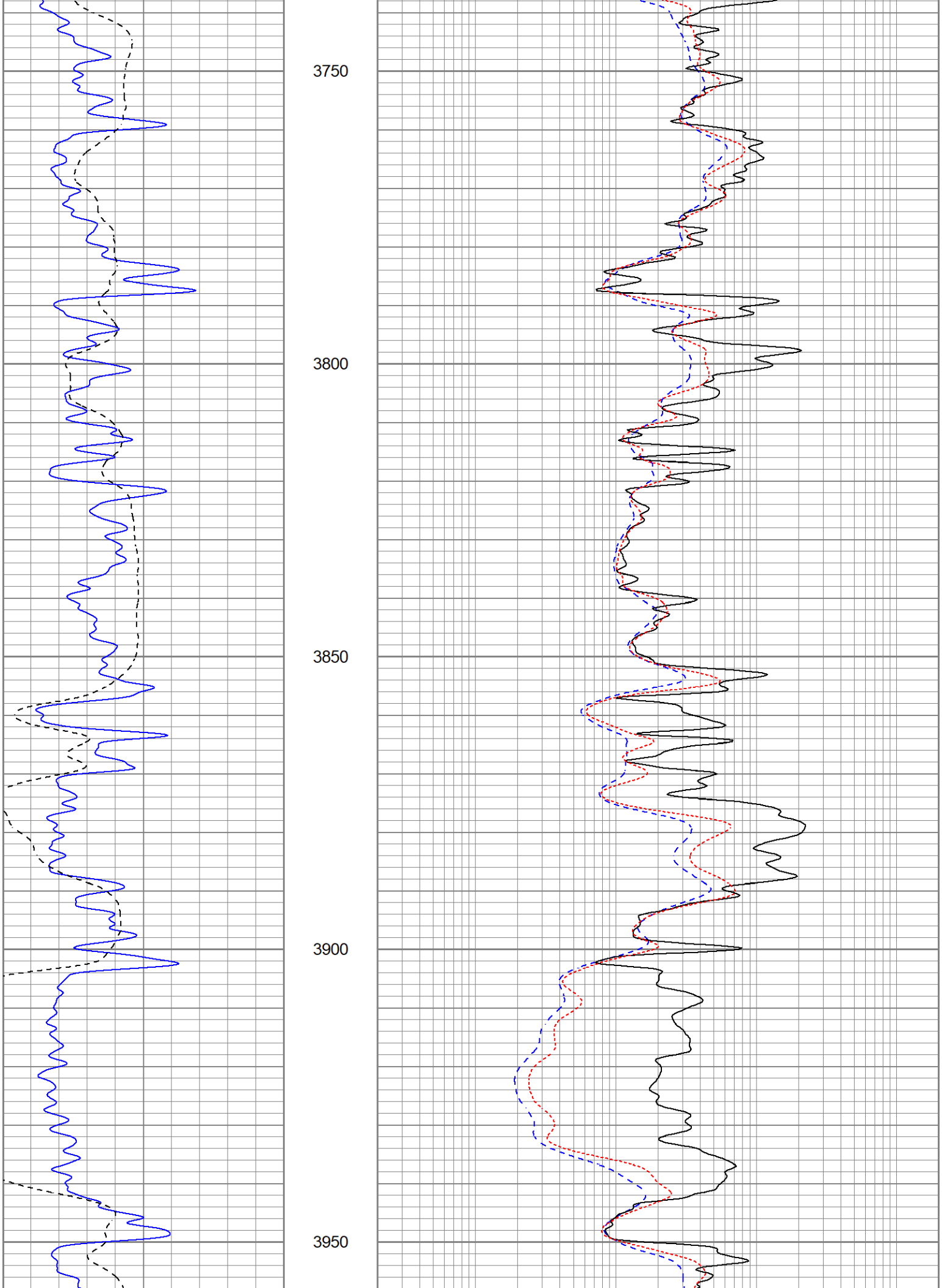
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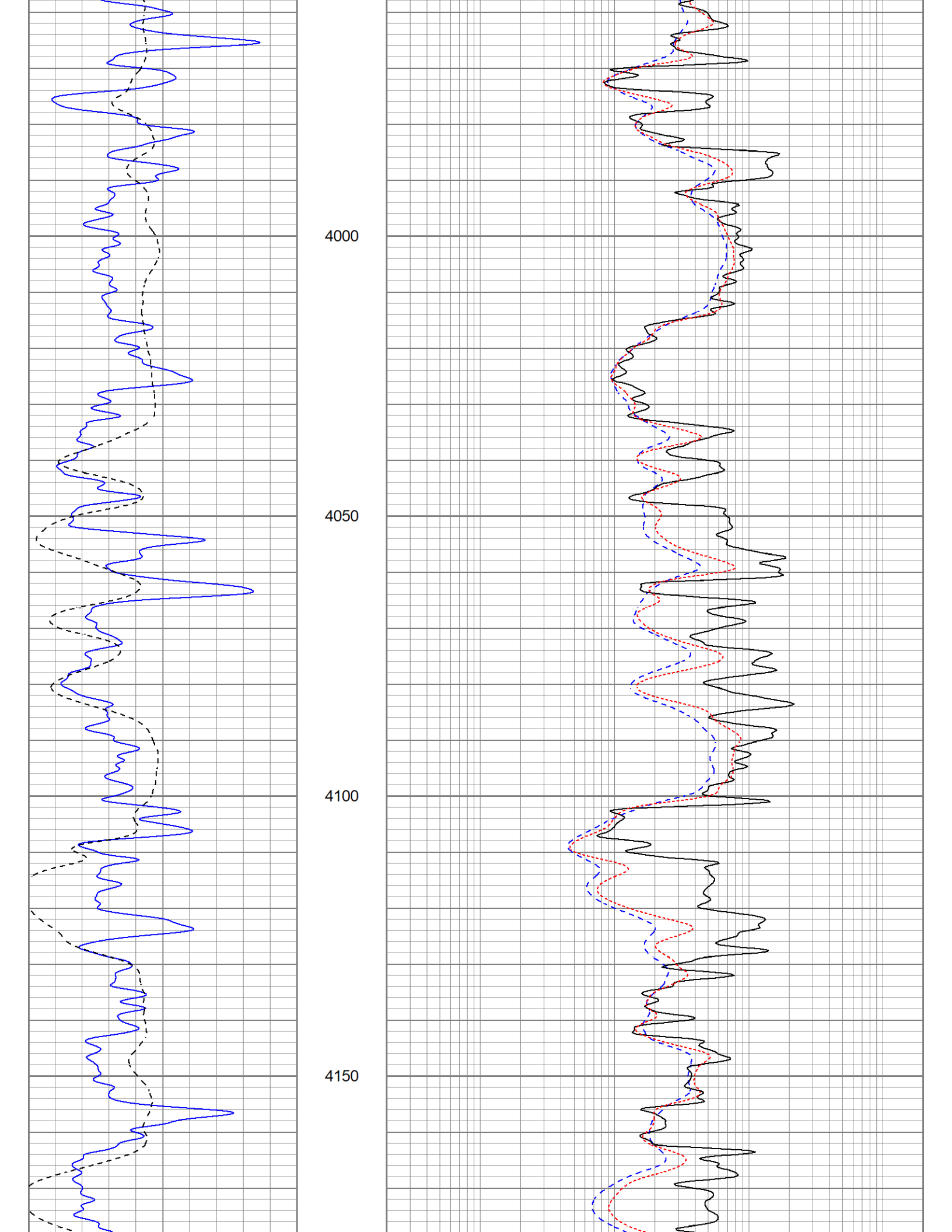
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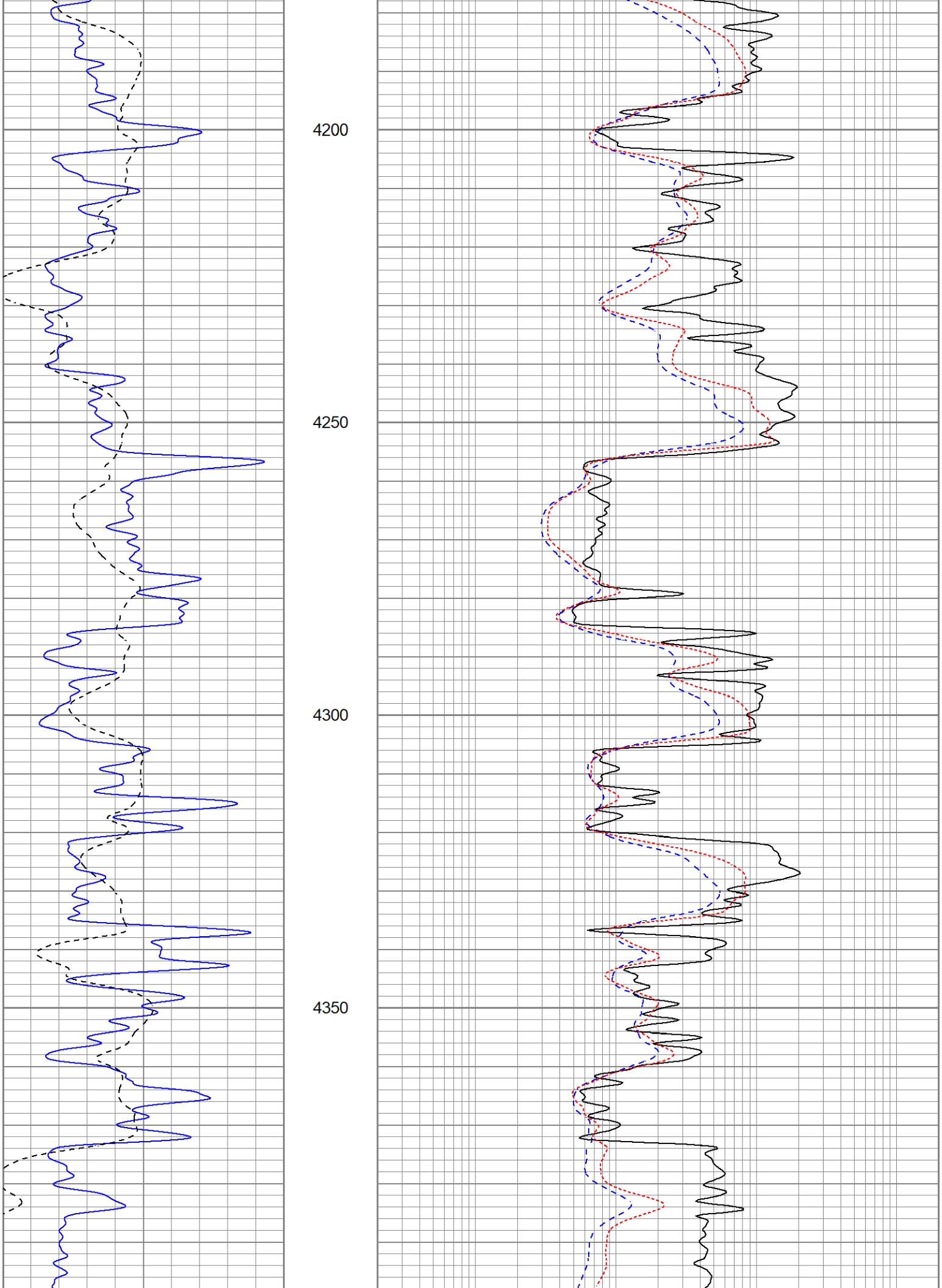
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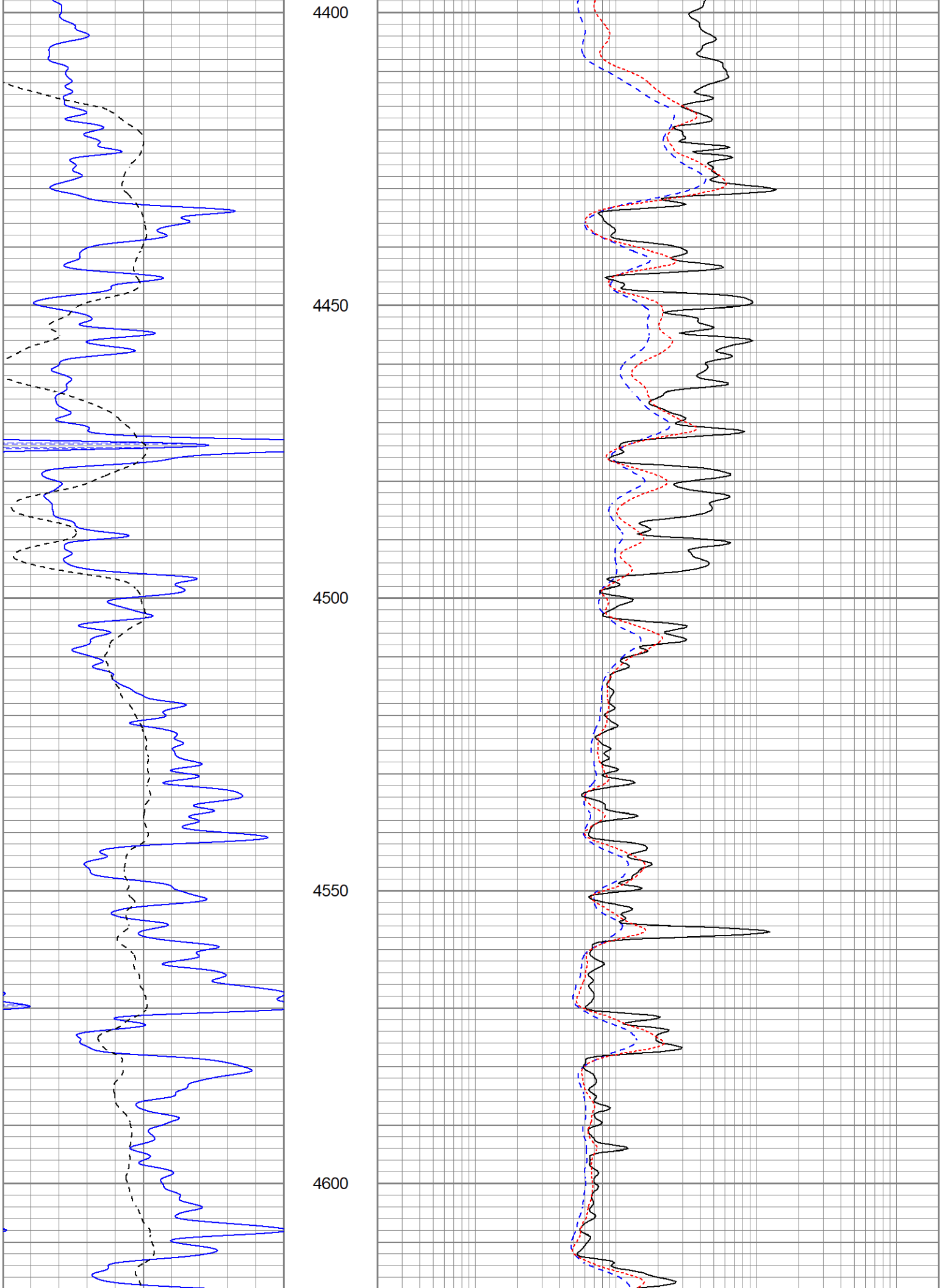
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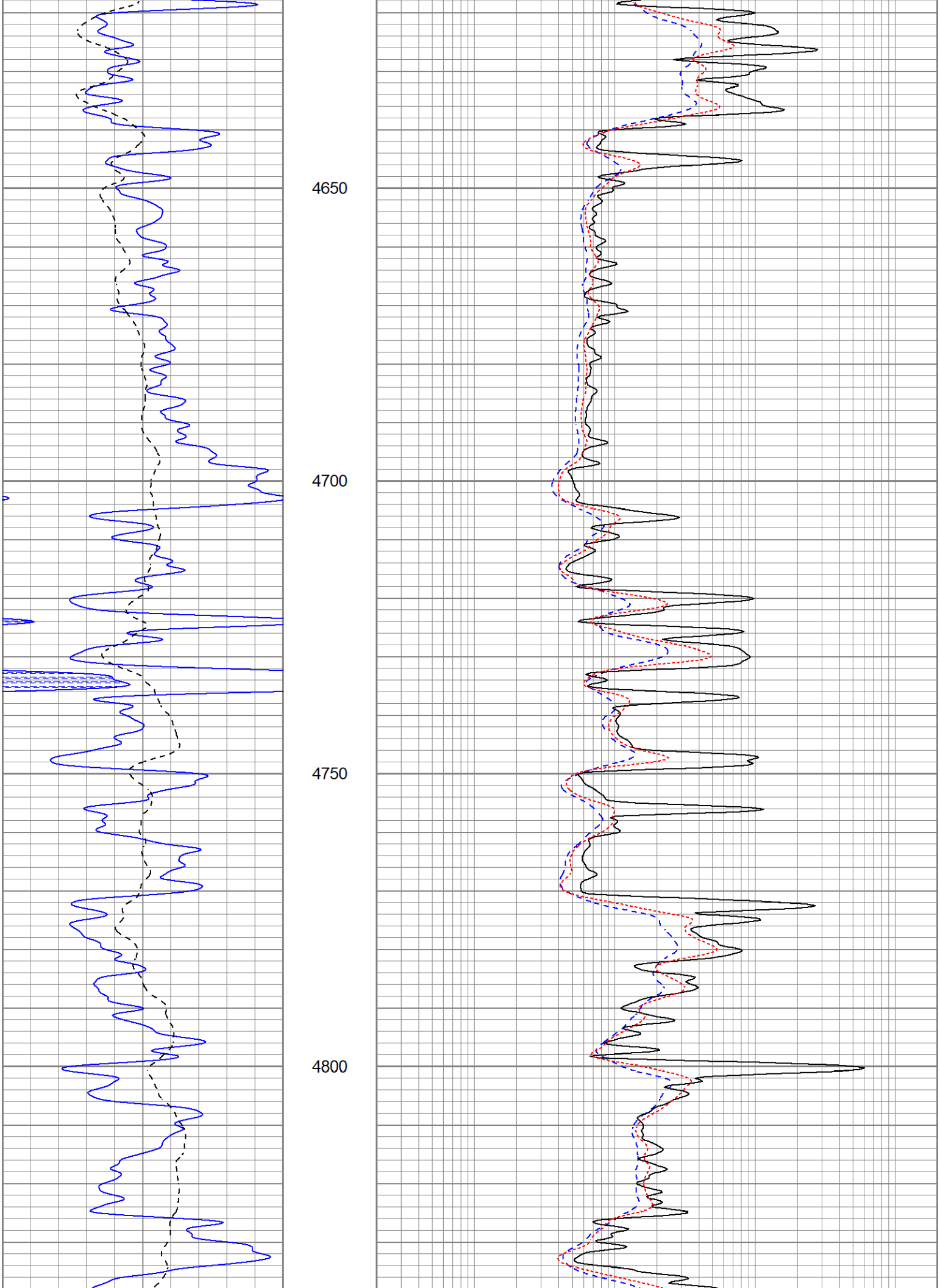
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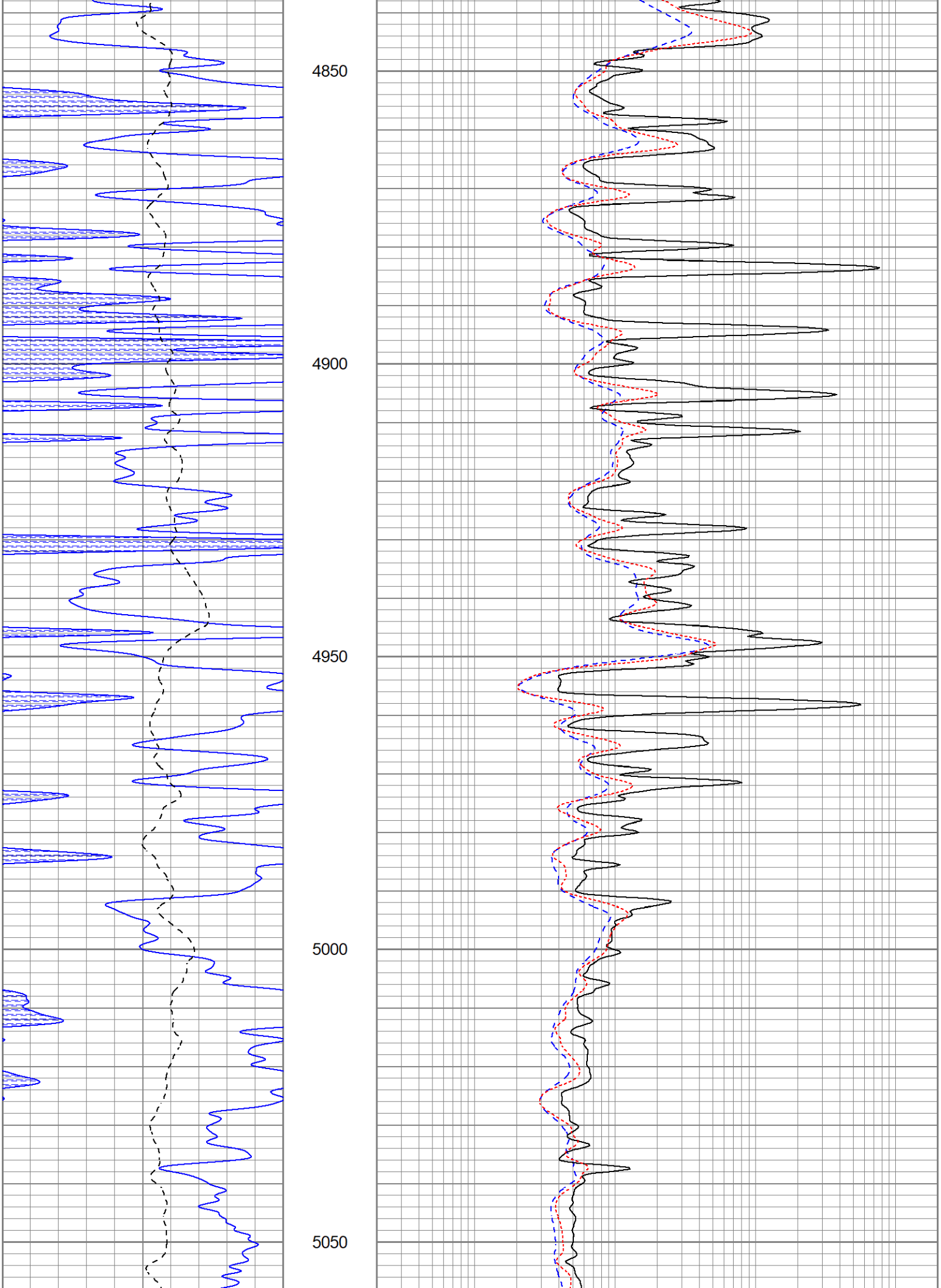
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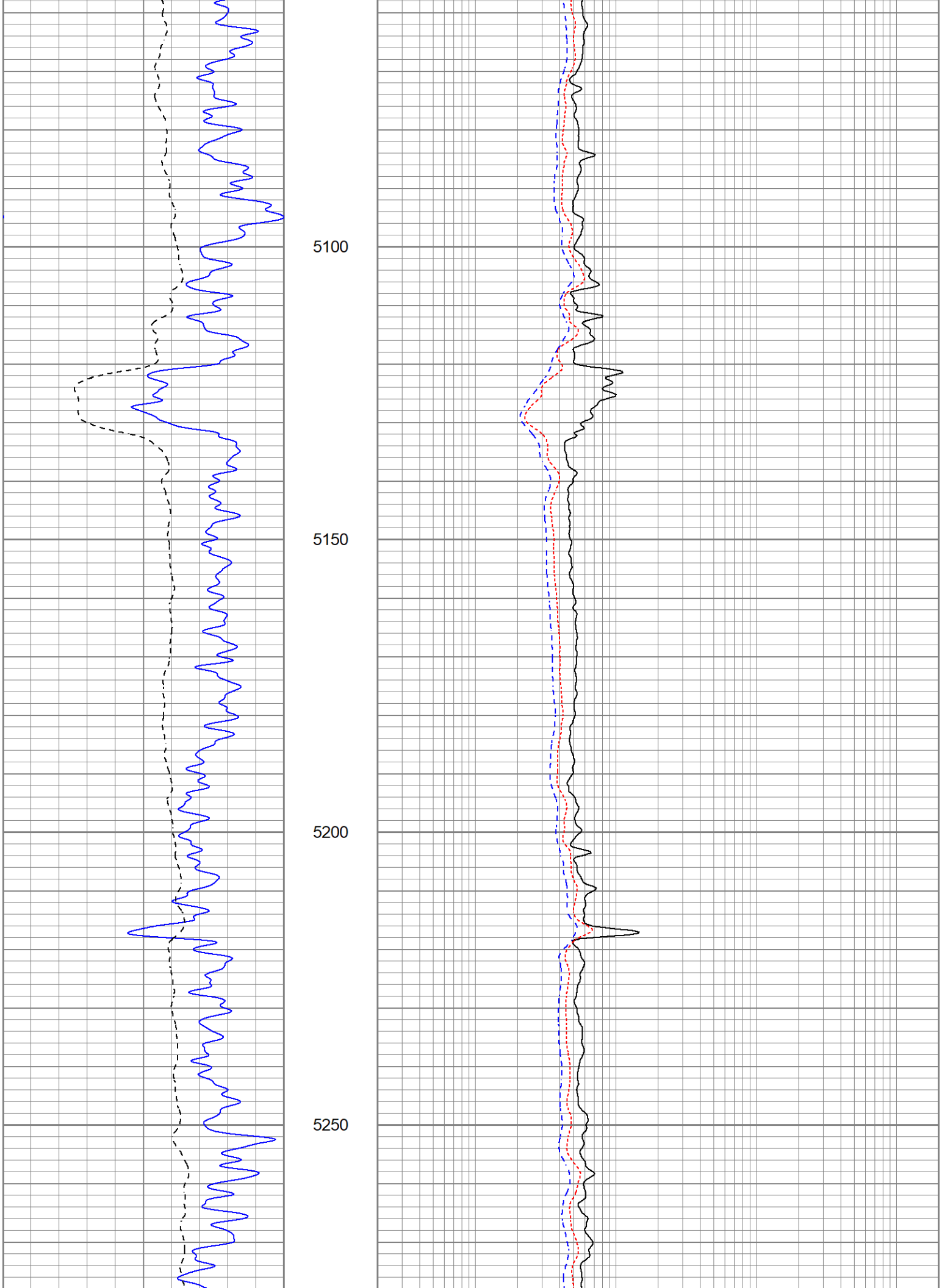
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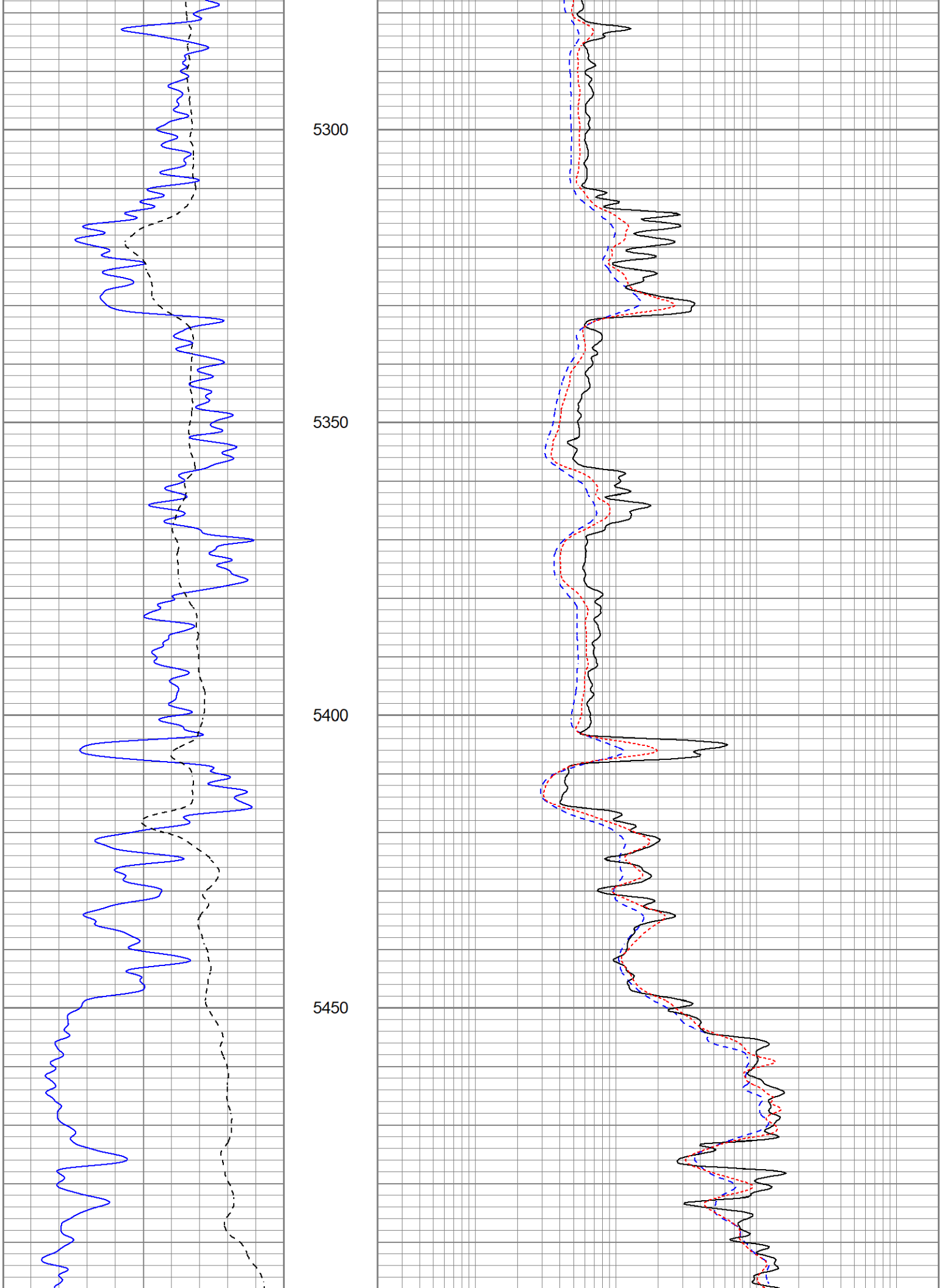
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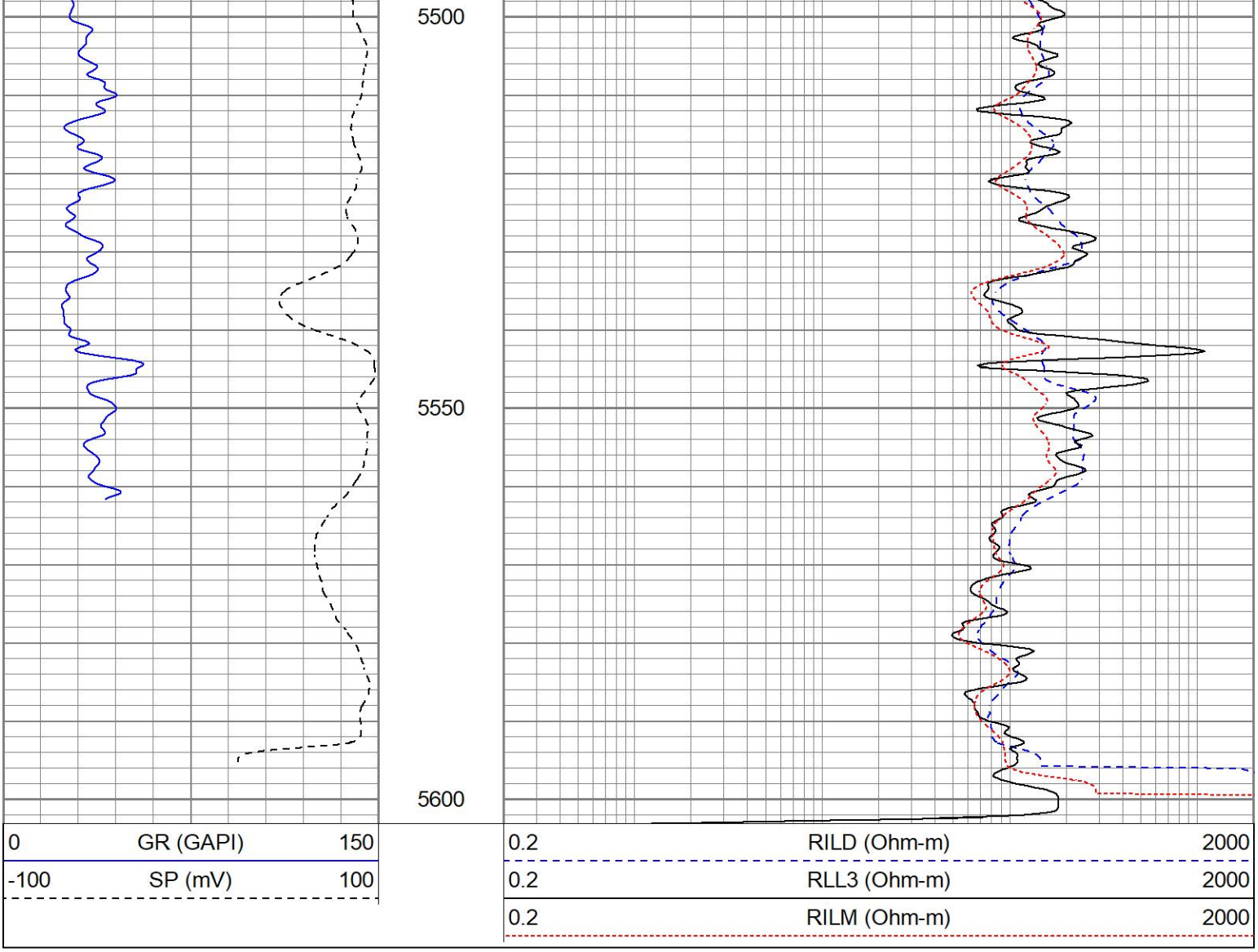
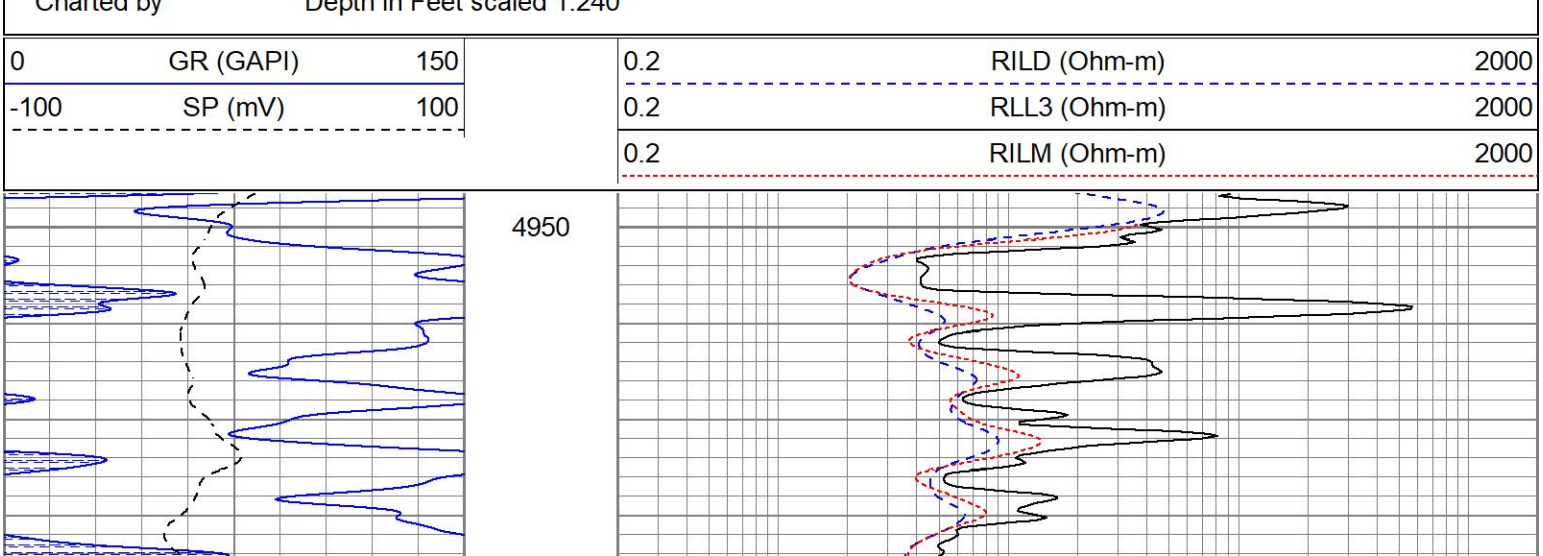
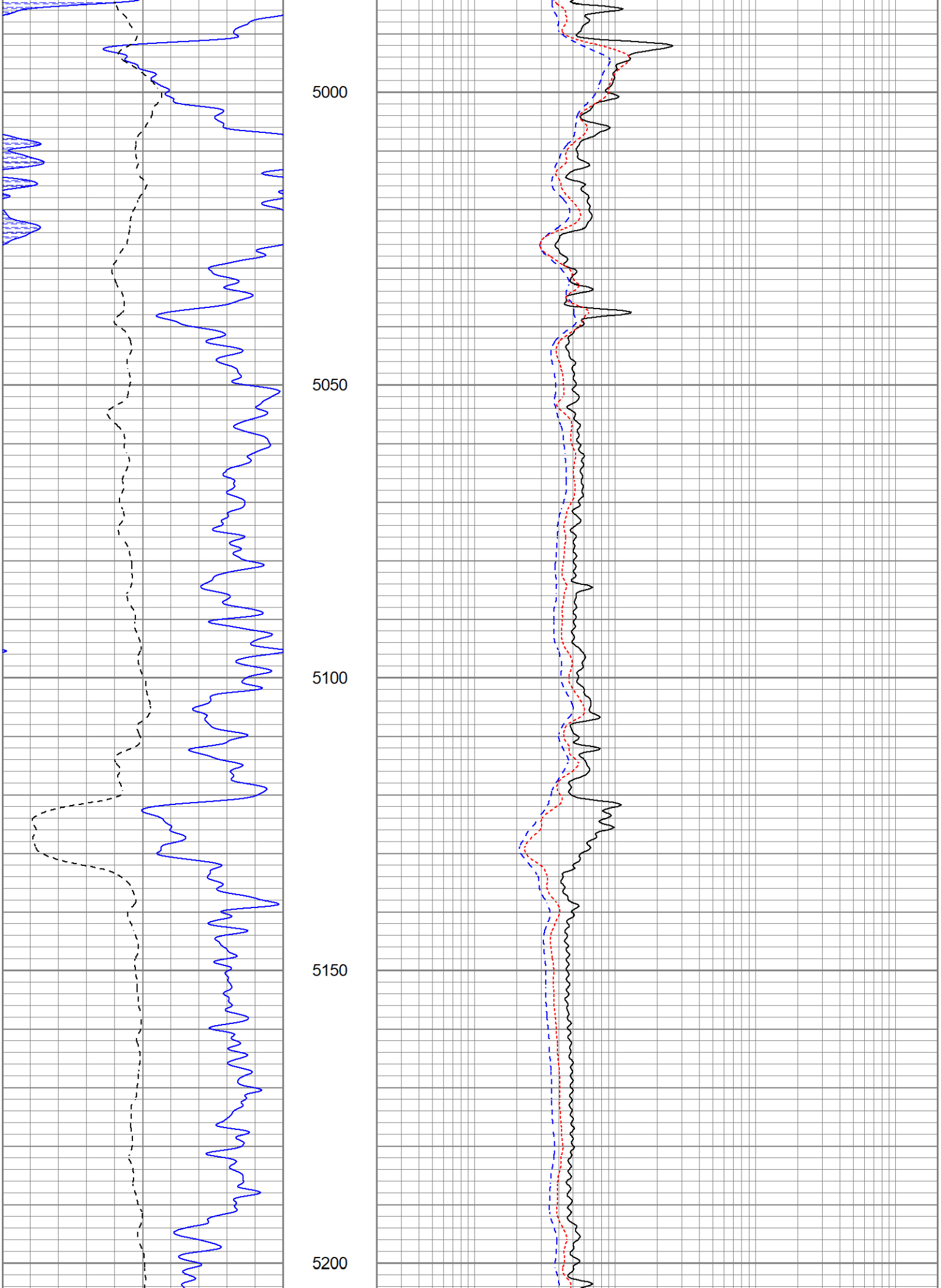


REPEAT SECTION

Database File	berexcoellen#1-15oh.db
Dataset Pathname	pass2.1
Presentation Format	kdil
Dataset Creation	Mon Feb 13 23:25:02 2023
Charted by	Depth in Feet scaled 1:240

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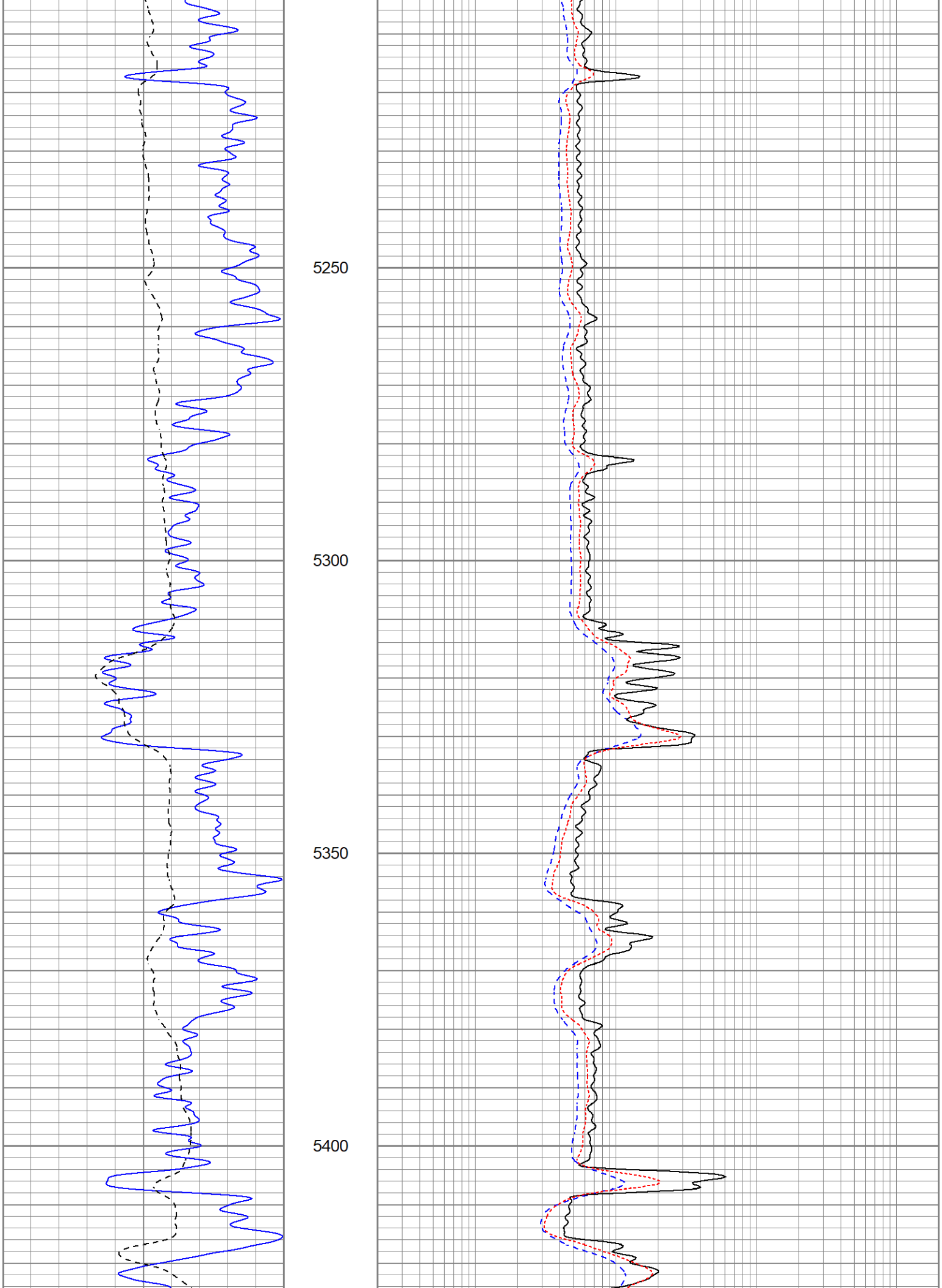
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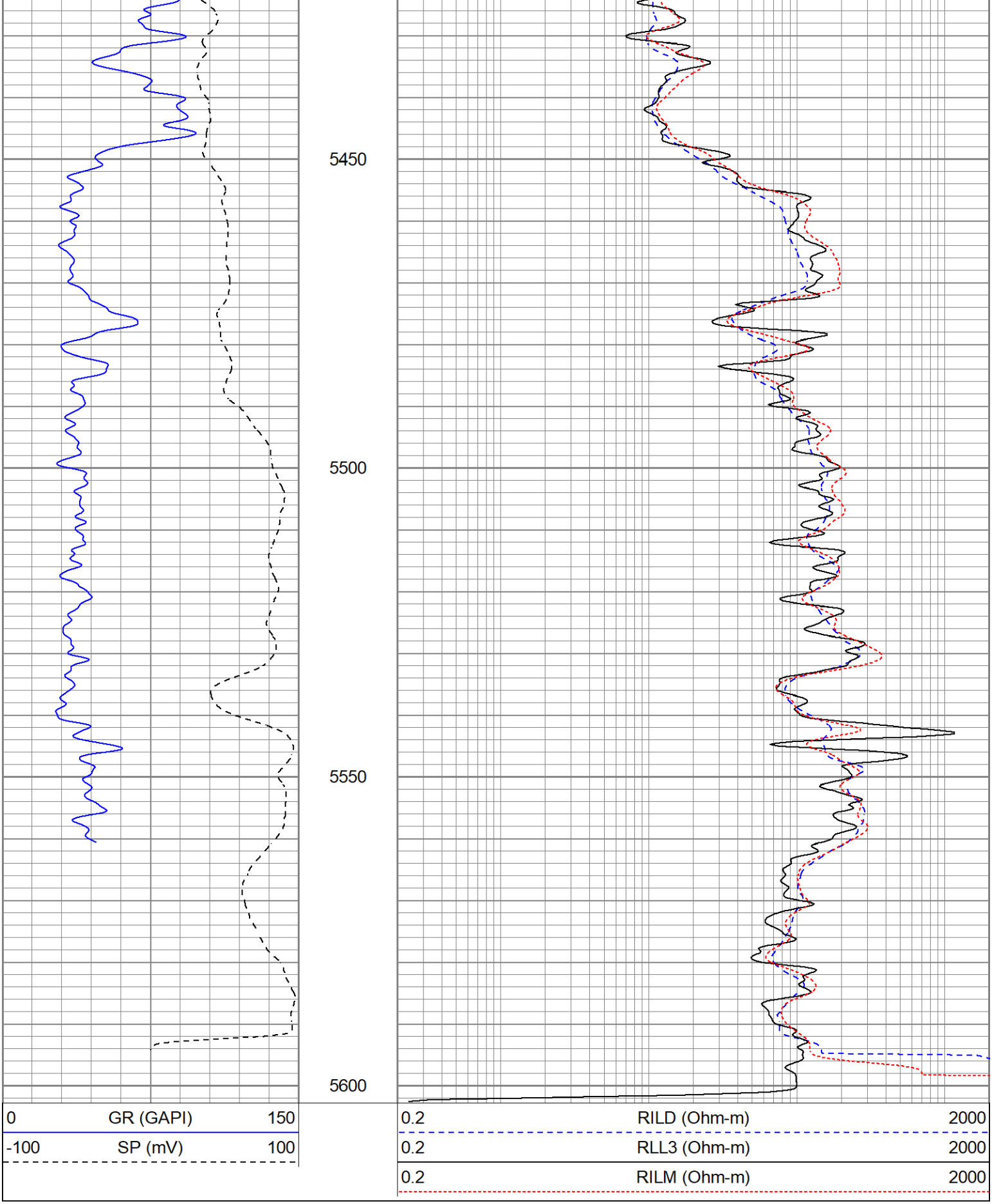

Calibration Report

Database File	berexcoellen#1-15oh.db
Dataset Pathname	pass2.1
Dataset Creation	Mon Feb 13 23:25:02 2023

Dual Induction Calibration Report

Dual Induction Calibration Report

Serial-Model:	5375-G
Surface Cal Performed:	Wed May 5 19:18:35 2021
Downhole Cal Performed:	Wed May 5 19:19:37 2021
After Survey Verification Performed:	Wed May 5 19:19:37 2021

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.643	V	0.000	350.000	mmho/m	545.845	-0.739
Medium	0.006	0.727	V	0.000	400.000	mmho/m	554.957	-3.517
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.001	0.642	V	0.000	350.000	mmho/m	545.941	-0.743
Medium	0.006	0.727	V	0.000	550.000	mmho/m	762.787	-4.700

Downhole Calibration

	Readings			References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.127	350.109	mmho/m	0.003	349.942	mmho/m	1.000	-0.123
Medium	0.122	400.202	mmho/m	-0.097	400.049	mmho/m	1.000	-0.219
Shallow	2.429	0.012	V	500.000	2.000	Ohm-m	205.985	0.227

After Survey Verification

	Readings			Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.127	350.109	mmho/m	1.000	-0.123
Medium	0.000	0.000	mmho/m	0.122	400.202	mmho/m	1.000	-0.219
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Admyr Lithodensity Calibration Report

Serial-Model:	1C-C
Source:	Blue2
Master Calibration Performed:	Tue Aug 30 10:20:37 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.670	g/cc	6362.49	3546.71	cps
Aluminium	2.640	g/cc	1733.54	2362.69	cps
Aluminium+Sleeve	2.617	g/cc	1657.01	2197.69	cps

Spine Angle = 72.65 Density/Spine Ratio = 0.712

	PE		NLITH	NHARD	
Magnesium	2.000	barn	2520.00	1620.00	cps
Aluminium	3.000	barn	1926.00	1699.00	cps
Aluminium+Sleeve	5.000	barn	915.00	1230.00	cps

M = 0.370 B = -0.079 R = 0.999

	Size		Reading	
Small Ring	8.00	in	8.61	V
Large Ring	14.30	in	12.40	V

Neutron Calibration Report

Serial Number:	AD5139	
Tool Model:	ADMY5139	
Performed:	(Not Performed)	
Calibrator Value:	1	NAPI
Calibrator Reading:	1	cps
Sensitivity:	1	NAPI/cps

Temperature Calibration Report

Serial Number:	WithMC			
Tool Model:	WMC			
Performed:	Fri Apr 19 12:15:04 2019			
	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF
Gain:	1.00			
Offset:	0.00			
Delta Spacing	1			

Inclinometer Calibration Report

Performed: Wed May 5 19:20:48 2021

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	Wed Jun 15 11:53:49 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	GAPI/cps