LITHO DENSITY NEUTRON LOG

Company LONE WOLF OIL & GAS CO., LLC
Well KEMPTON A3
Field MOLINE
County ELK
State KANSAS

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Well KEMPTON A3
Field MOLINE
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State KANSAS

Location: API # : 15-049-22626
NW NE SW SE
1185' FSL & 1965' FEL
SEC 5 TWP 31S RGE 10E

Other Services
MEL
ILD

Permanent Datum GL Elevation 1205
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 1214
D.F. 1213
G.L. 1205

Date	3-22-22		
Run Number	ONE		
Depth Driller	2575		
Depth Logger	2572		
Bottom Logged Interval	2570		
Top Log Interval	SURFACE		
Casing Driller	8 5/8" @ 40		
Casing Logger	8 5/8" @ 40		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL		
Density / Viscosity	9.4 / 52		
pH / Fluid Loss	9.5 / 8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.5 @ 70		
Rmf @ Meas. Temp	3.1 @ 70		
Rmc @ Meas. Temp	1.9 @ 70		
Source of Rmf / Rmc	CAL		
Rm @ BHT	2.05 @ 98		
Time Circulation Stopped	6:30 AM		
Time Logger on Bottom	9:30 AM		
Maximum Recorded Temperature	98		
Equipment Number	OW2		
Location	HOMINY ,OK		
Recorded By	MACKEY	KIDD	TAFT
Witnessed By	MR. WOLFE		

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Comments

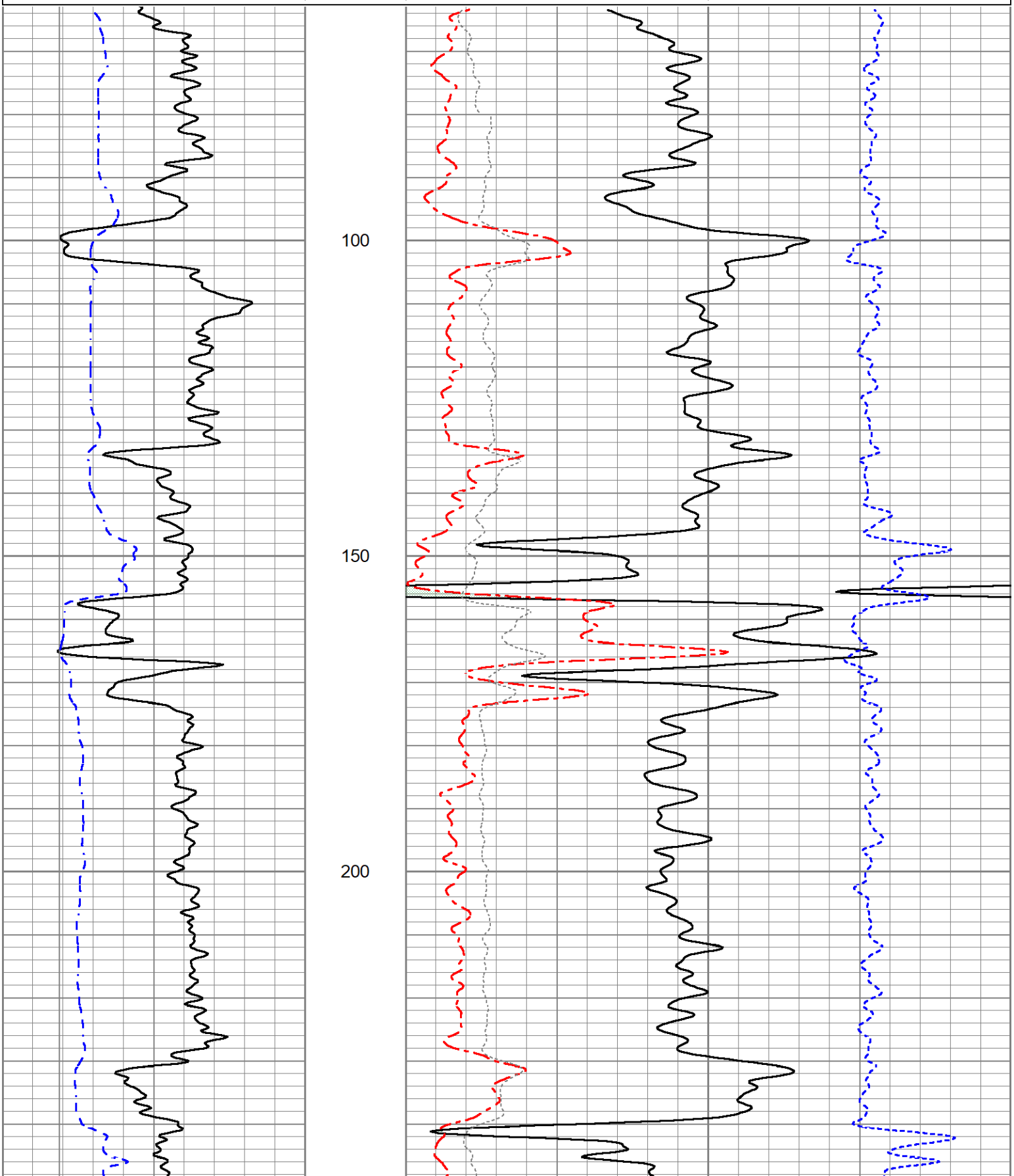
OW2-9028 LONE WOLF
THANK YOU FOR USING OSAGE WIRELINE INC.

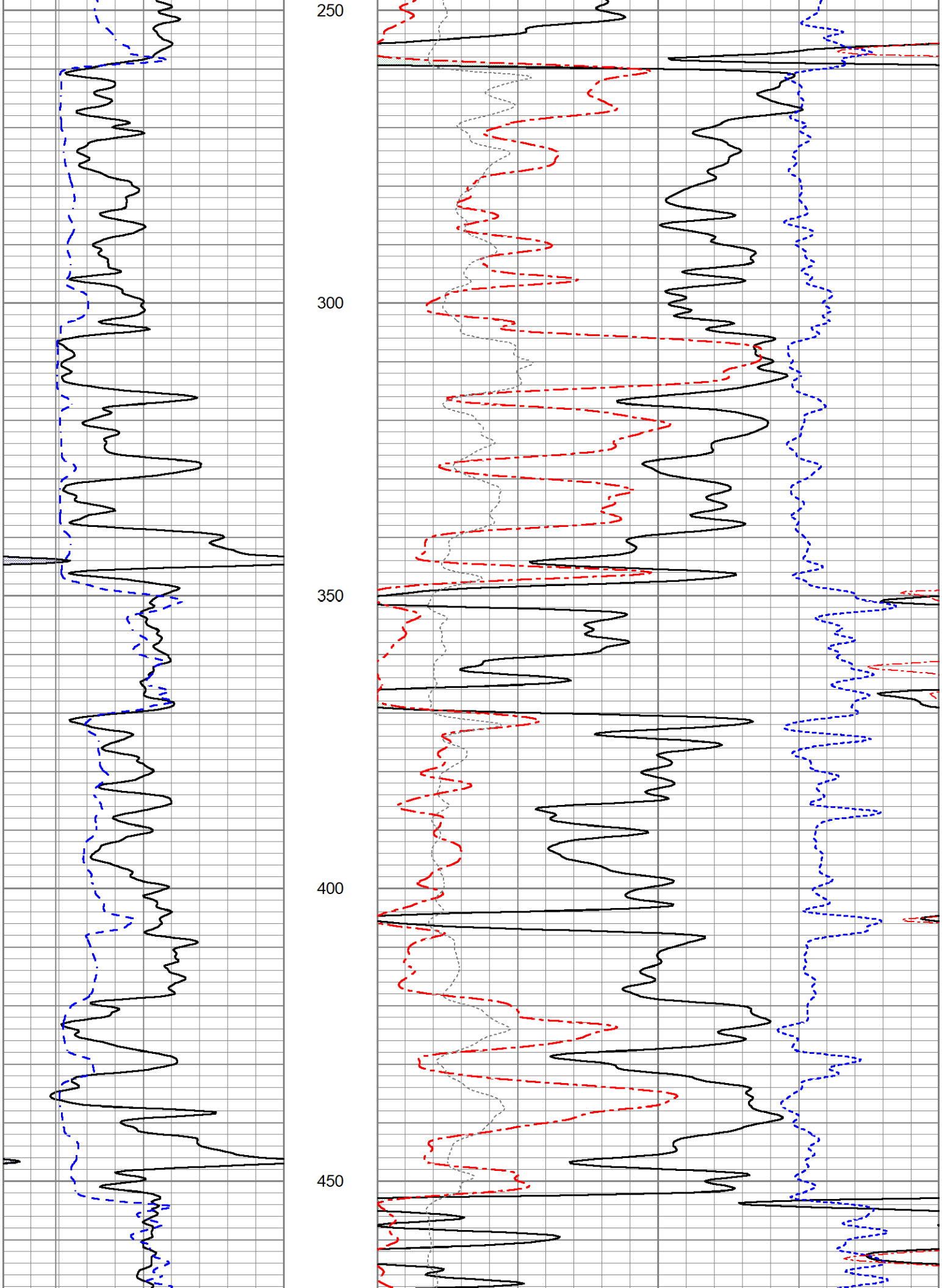
5" DENSITY NEUTRON LOG

Database File	ow2-9028 lone wolf.db
Dataset Pathname	pass3.4
Presentation Format	mmcdln5
Dataset Creation	Tue Mar 22 11:42:01 2022
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Bit size (in)	16
6	Density Caliper (in)	16

30	Density Porosity (pu)	-10
30	Neutron Porosity (pu)	-10
0	PE (barn) 10 -0.25 Correction (g/cc)	0.25

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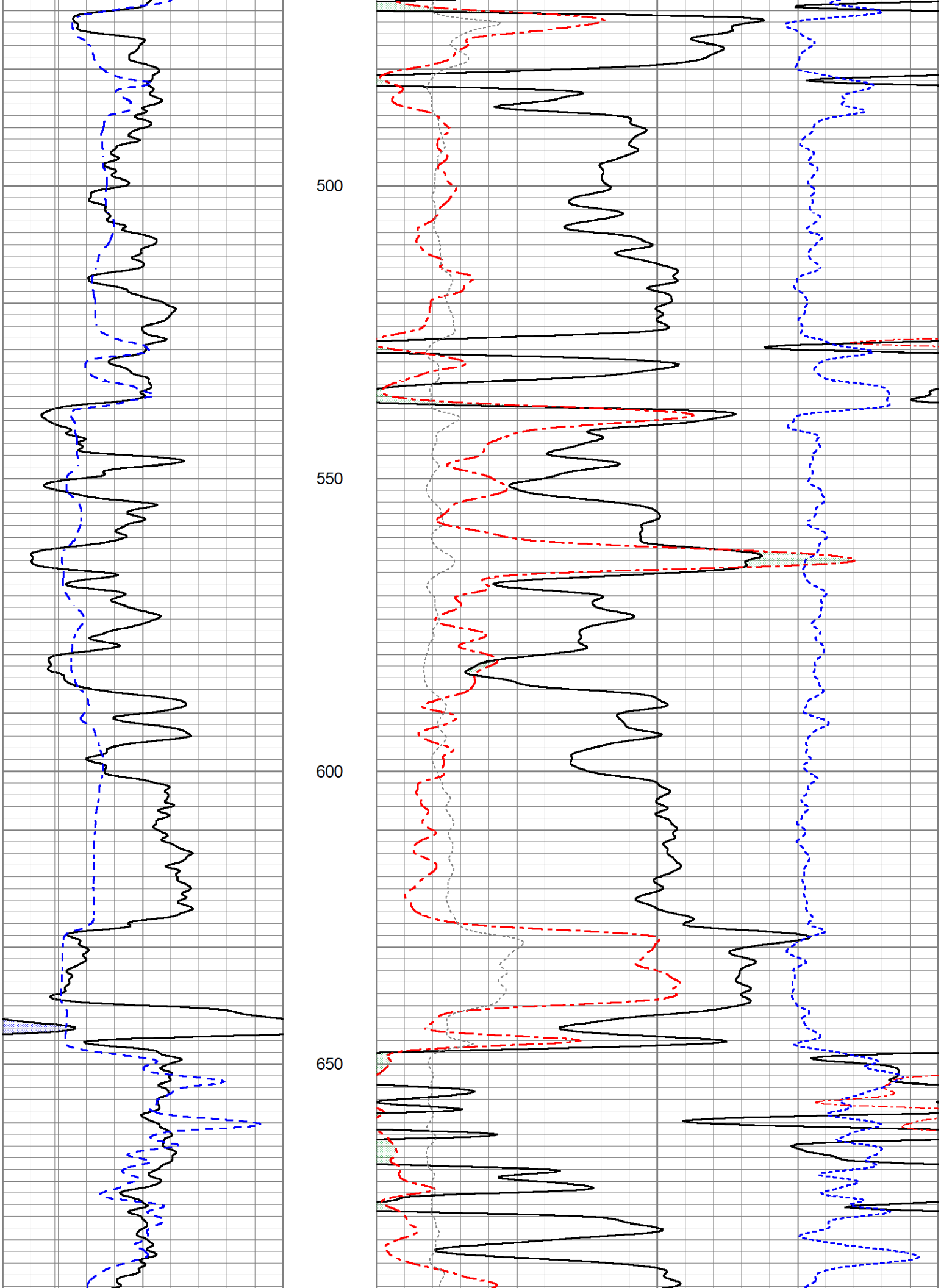
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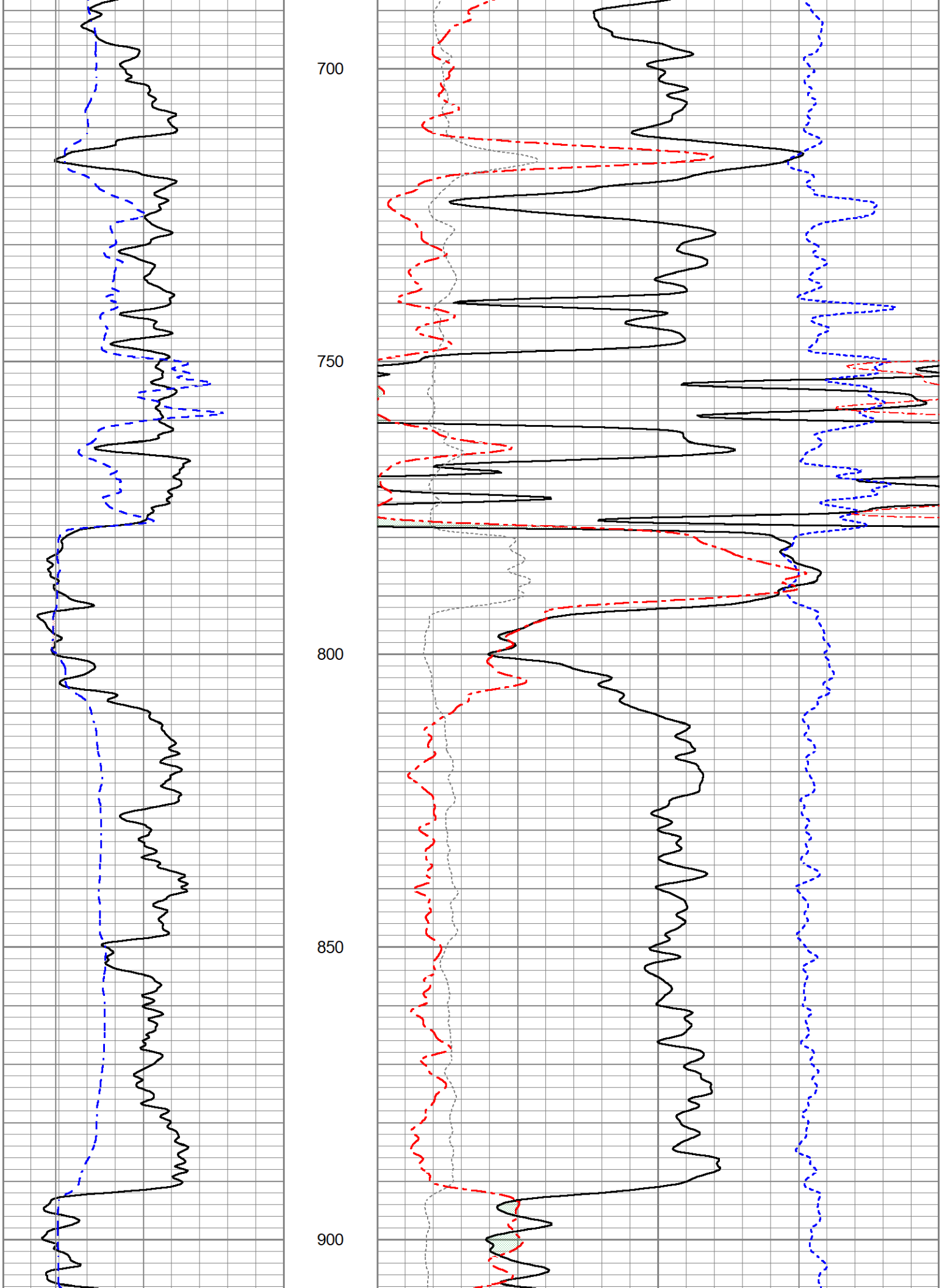
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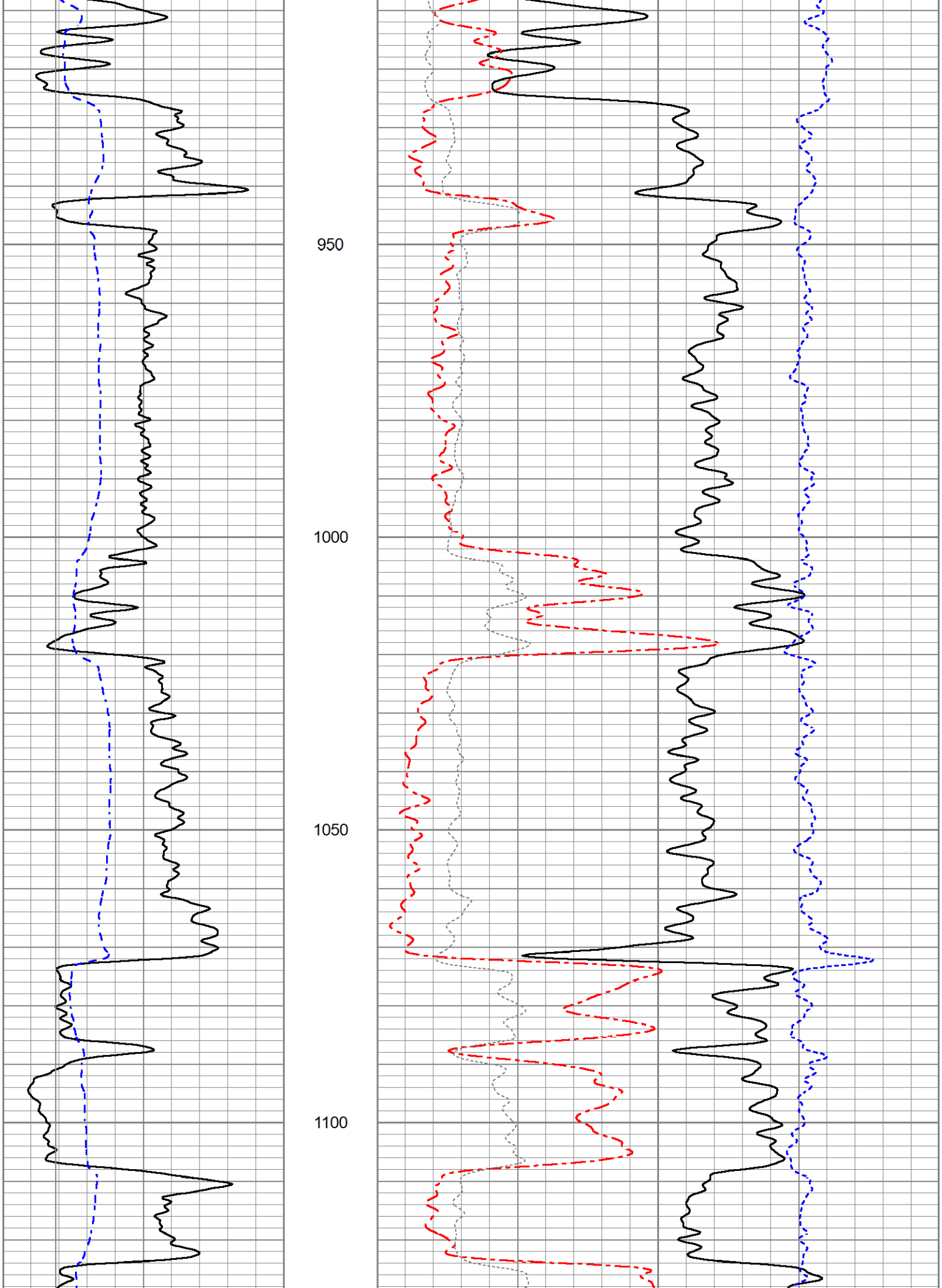
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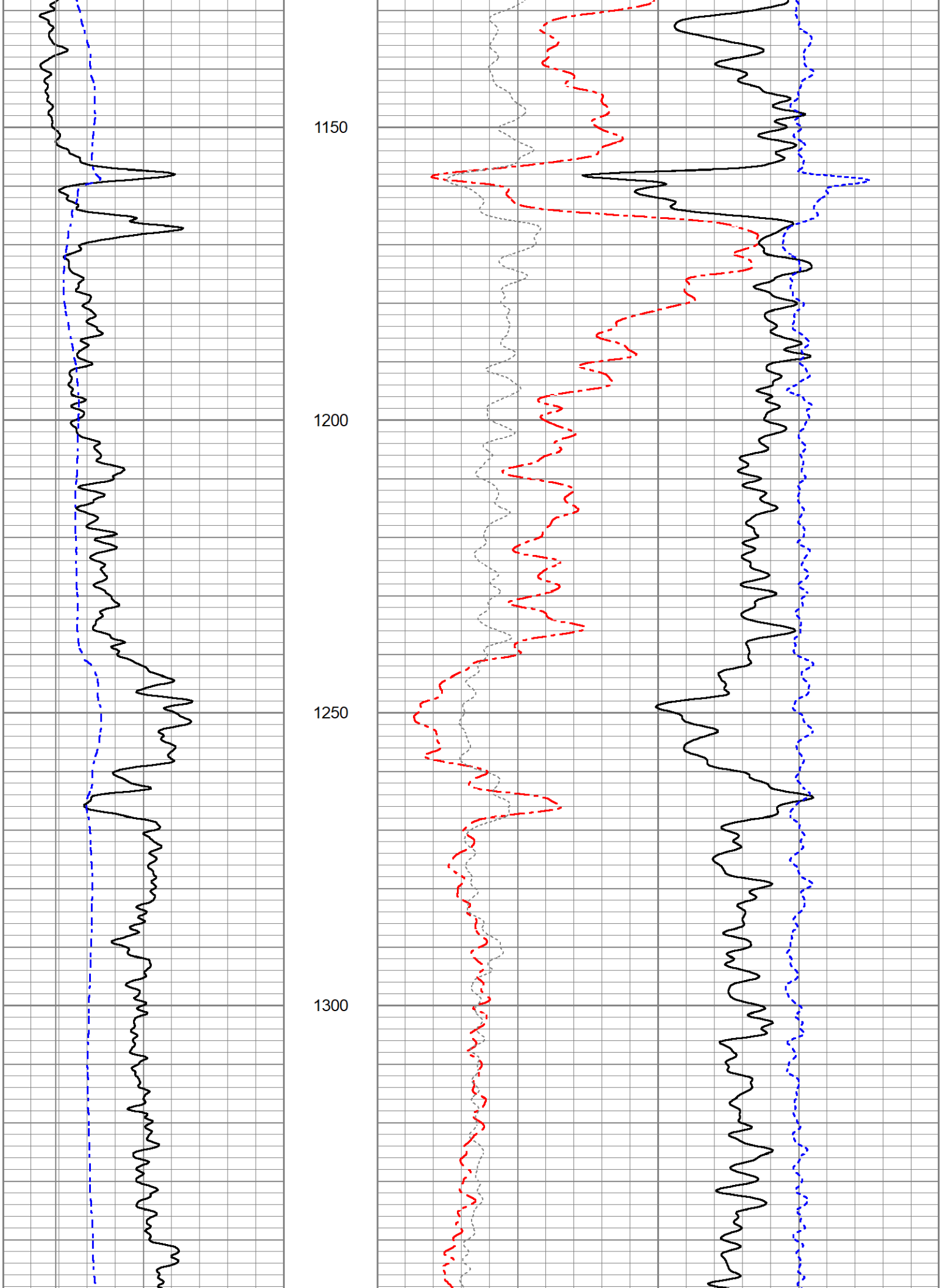
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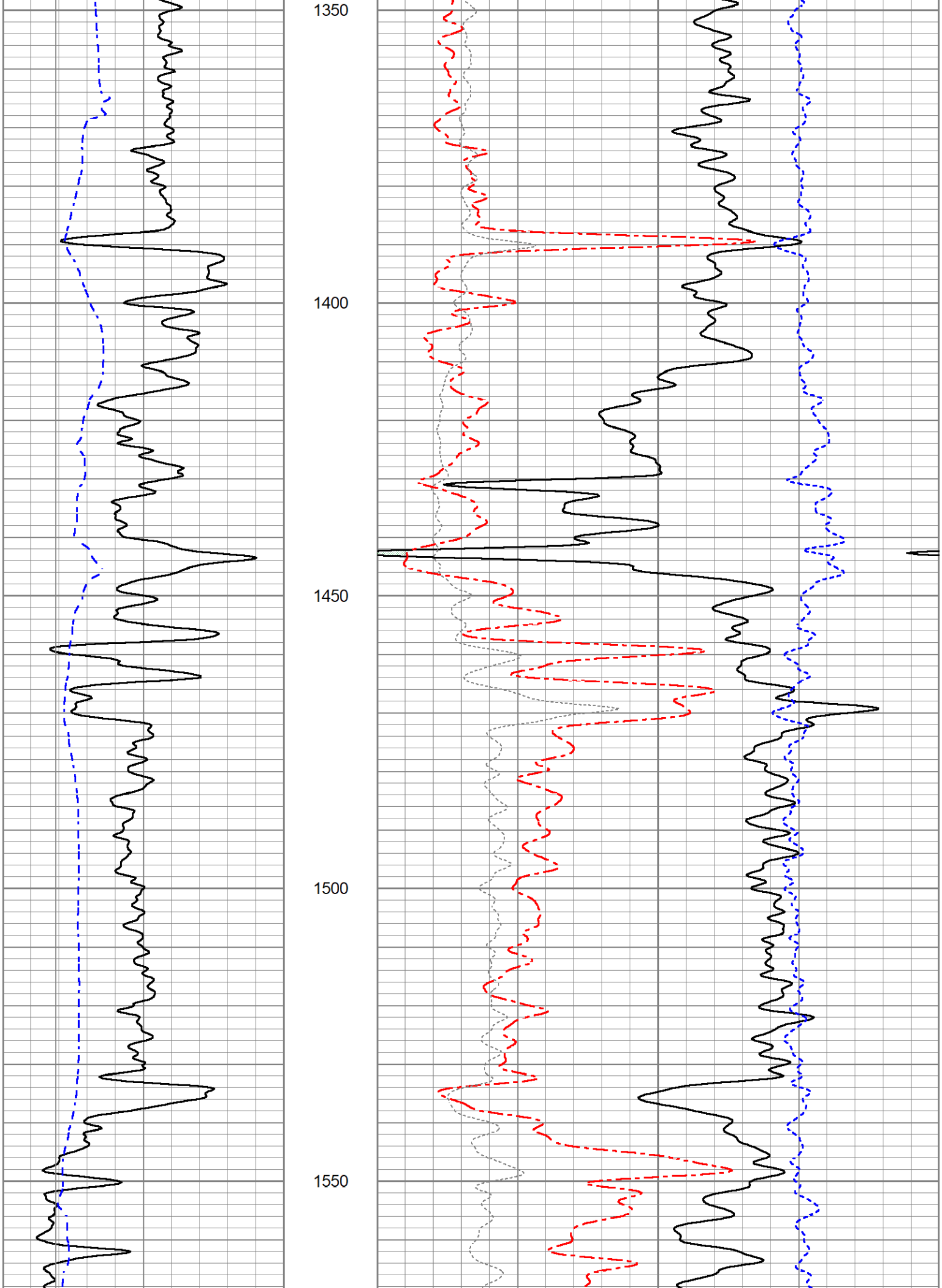
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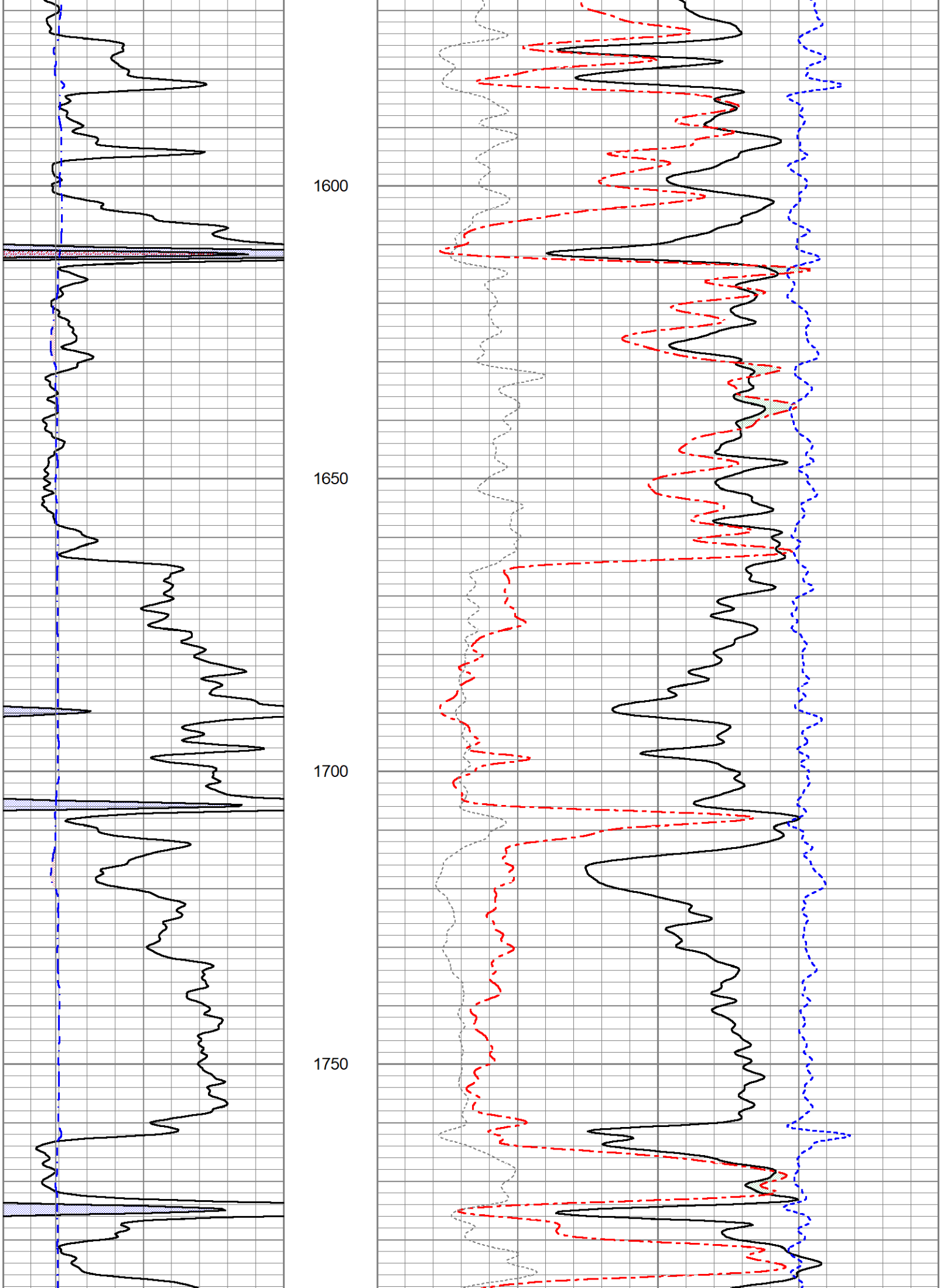
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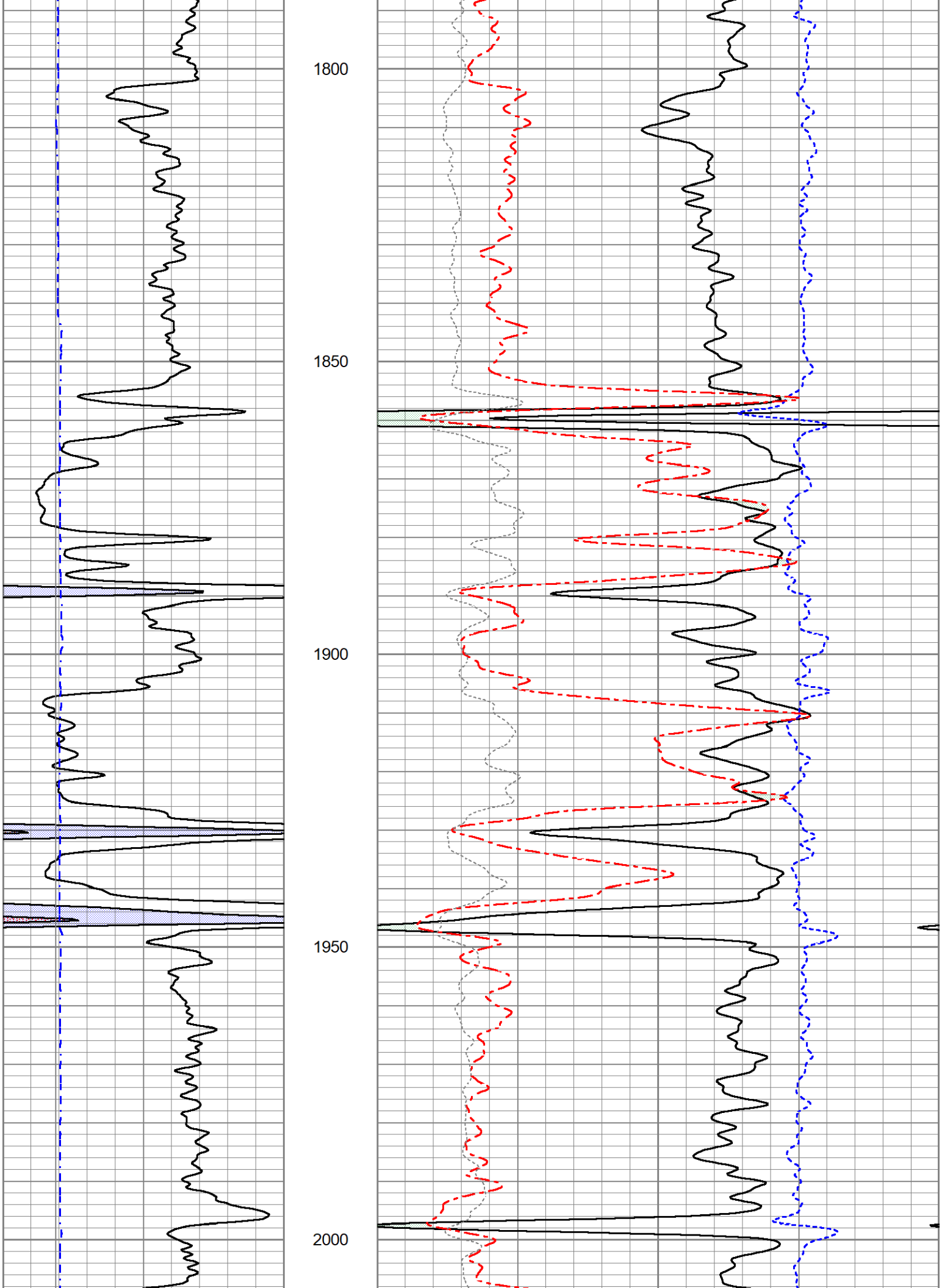
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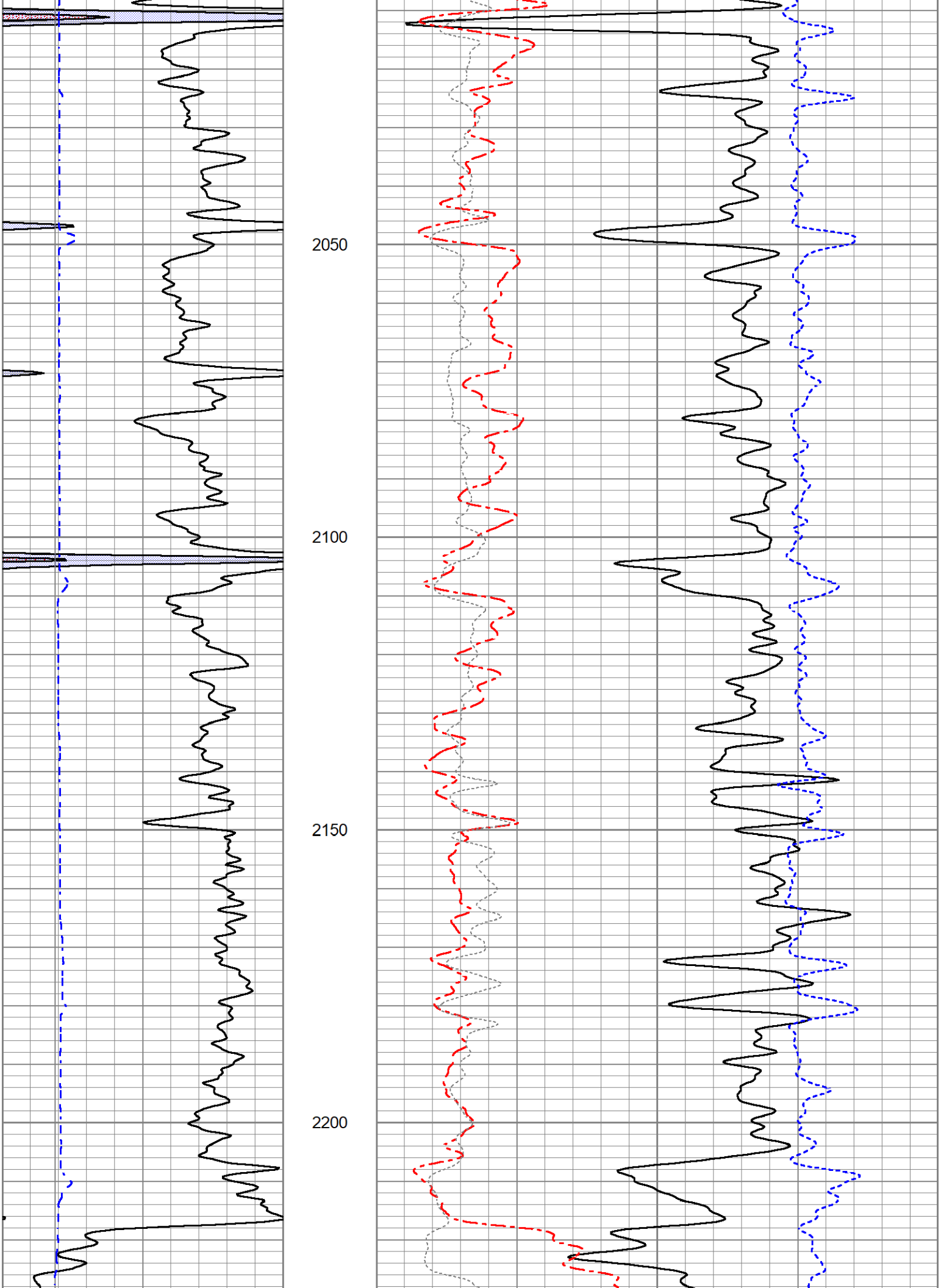
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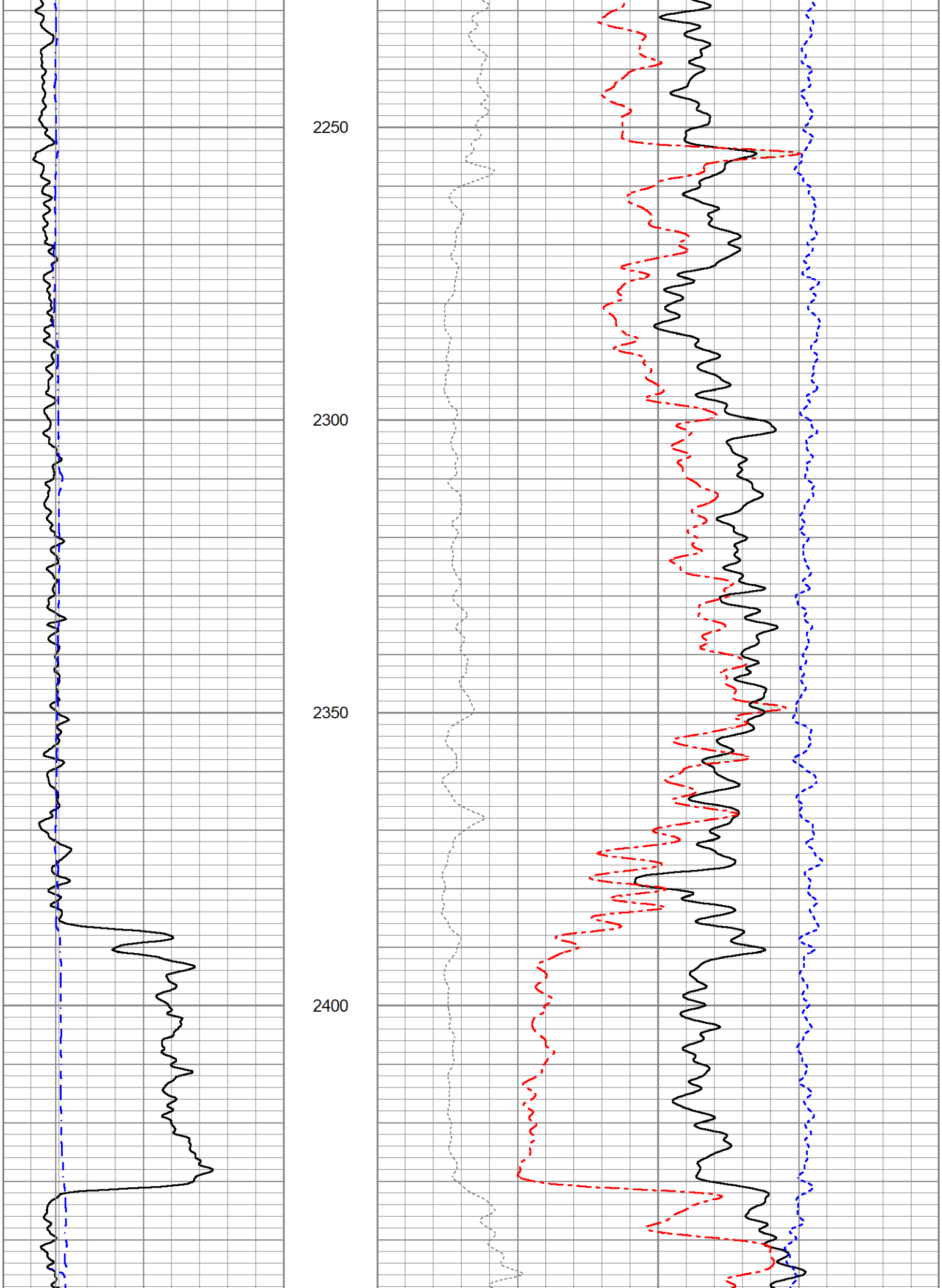
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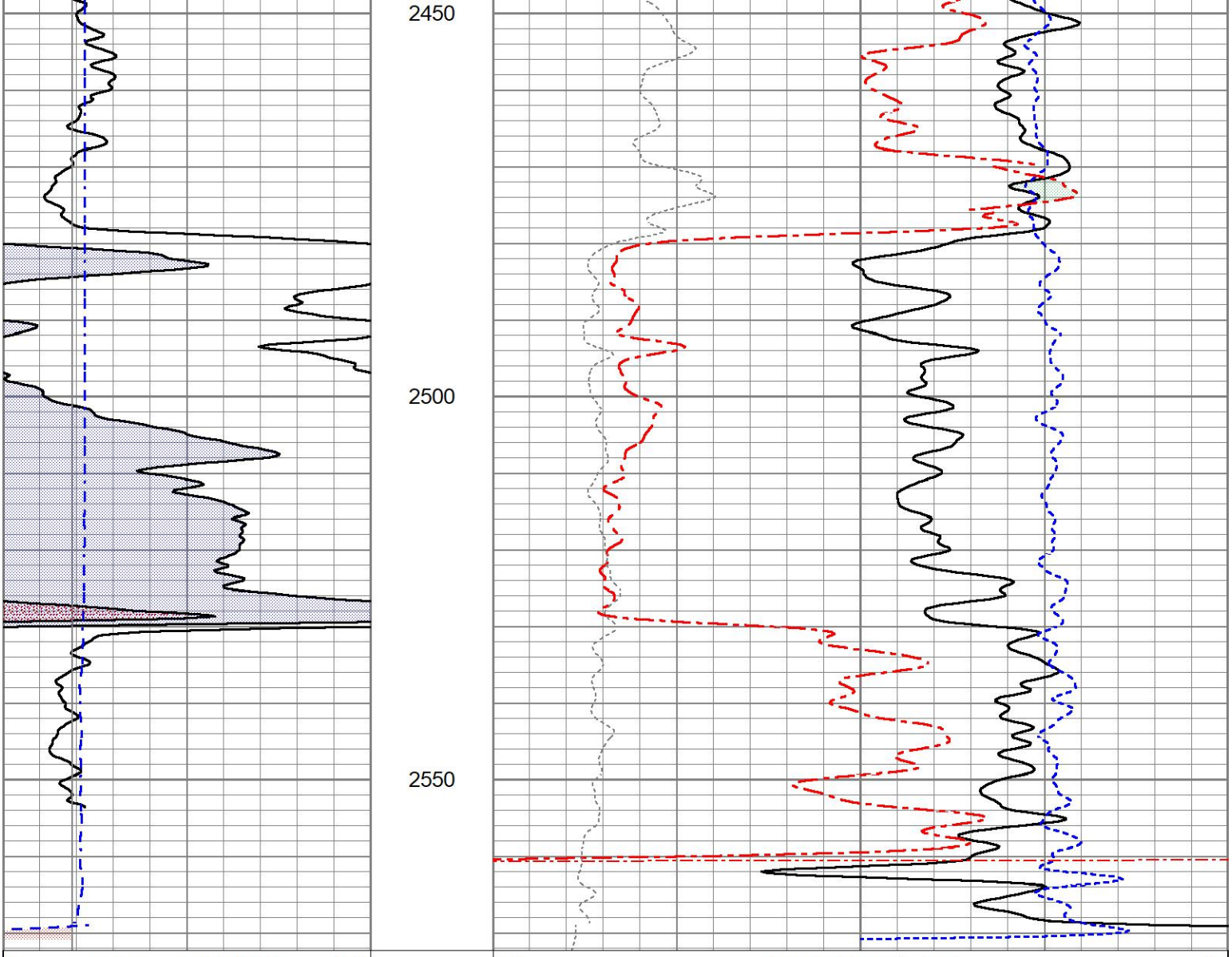


0	Gamma Ray (GAPI)	150
6	Bit size (in)	16
6	Density Caliper (in)	16

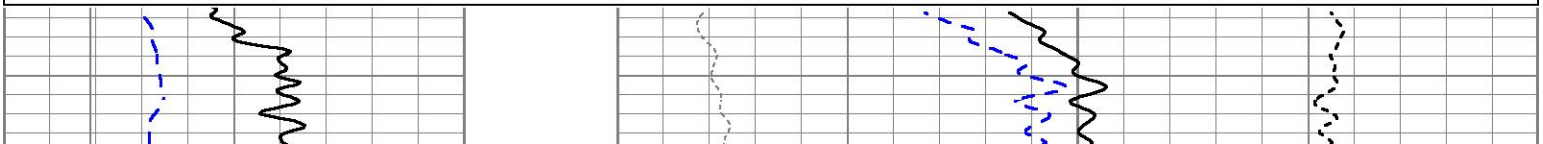
30	Density Porosity (pu)			-10
30	Neutron Porosity (pu)			-10
0	PE (barn)	10	-0.25 Correction (g/cc)	0.25

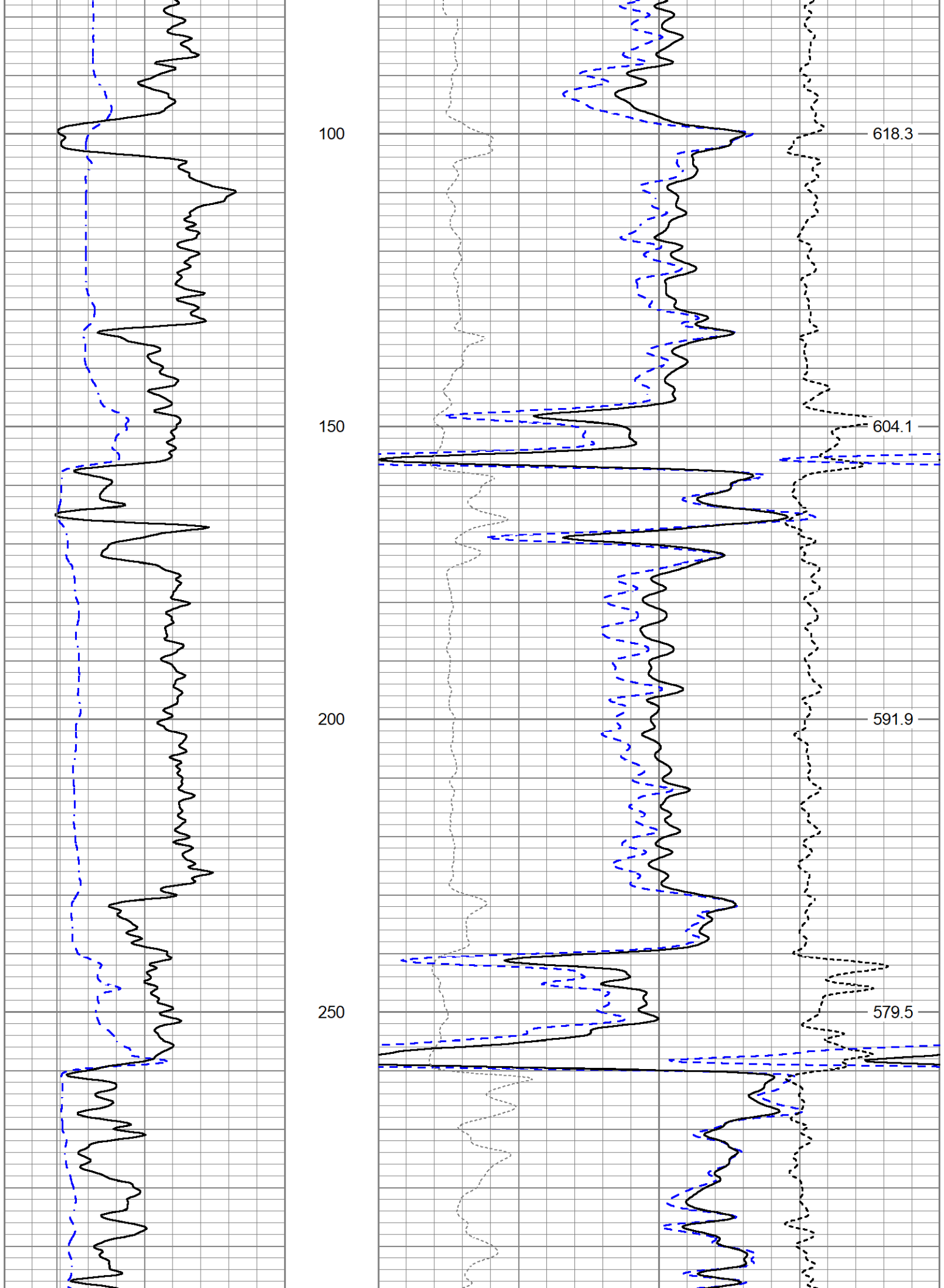
5" LITHO DENSITY LOG

Database File	ow2-9028 lone wolf.db
Dataset Pathname	pass3.3
Presentation Format	mmcdl5
Dataset Creation	Tue Mar 22 11:41:06 2022
Charted by	Depth in Feet scaled 1:240

6	Density Caliper (in)	16
0	Gamma Ray (GAPI)	150
6	Bit Size (in)	16

30	Density Porosity (pu)			-10
2	Bulk Density (g/cc)			3
0	PE (barn)	10	-0.25 Correction (g/cc)	0.25
				ABHV (ft3)

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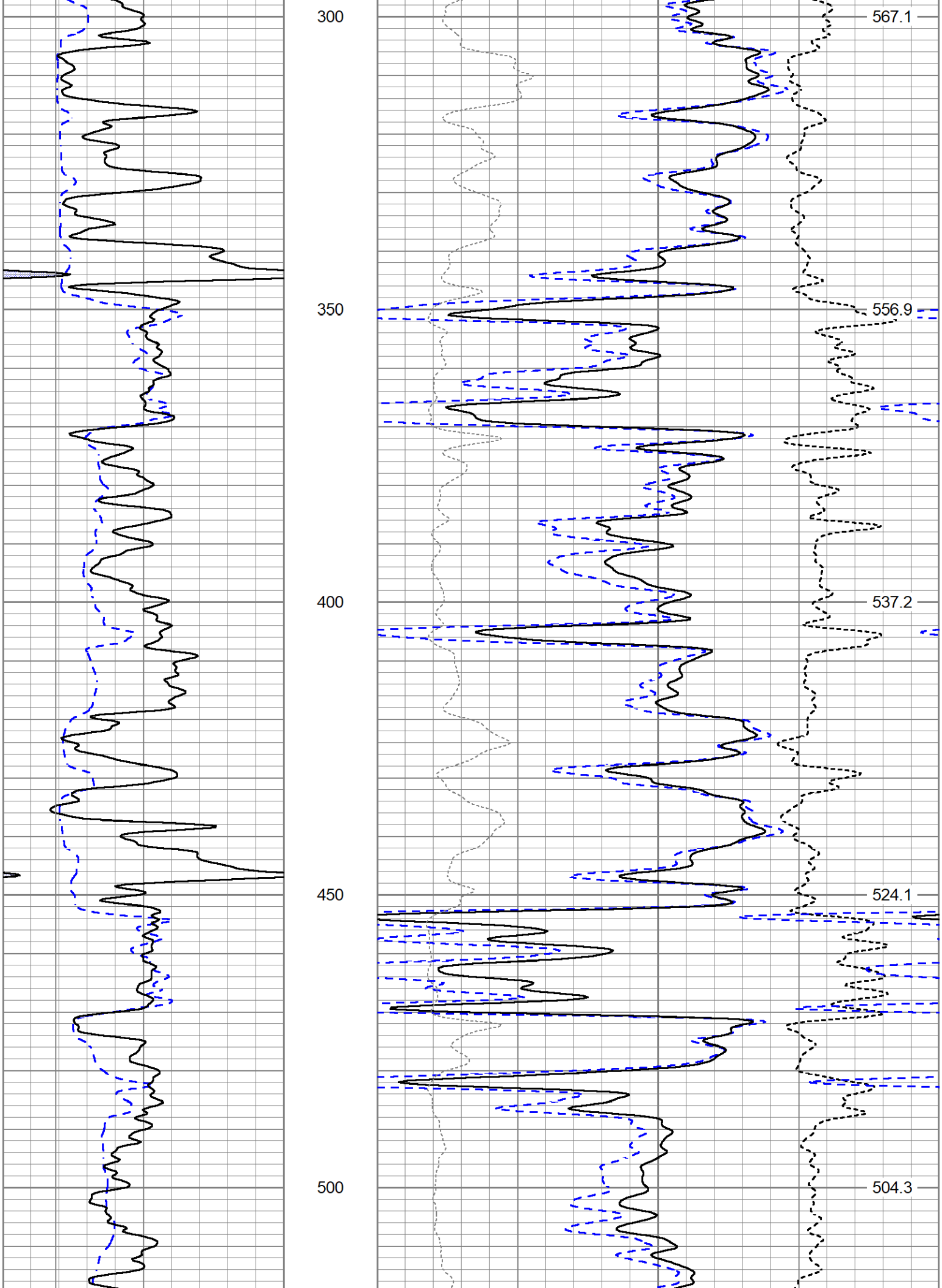
150
200
250
618.3
604.1
591.9
579.5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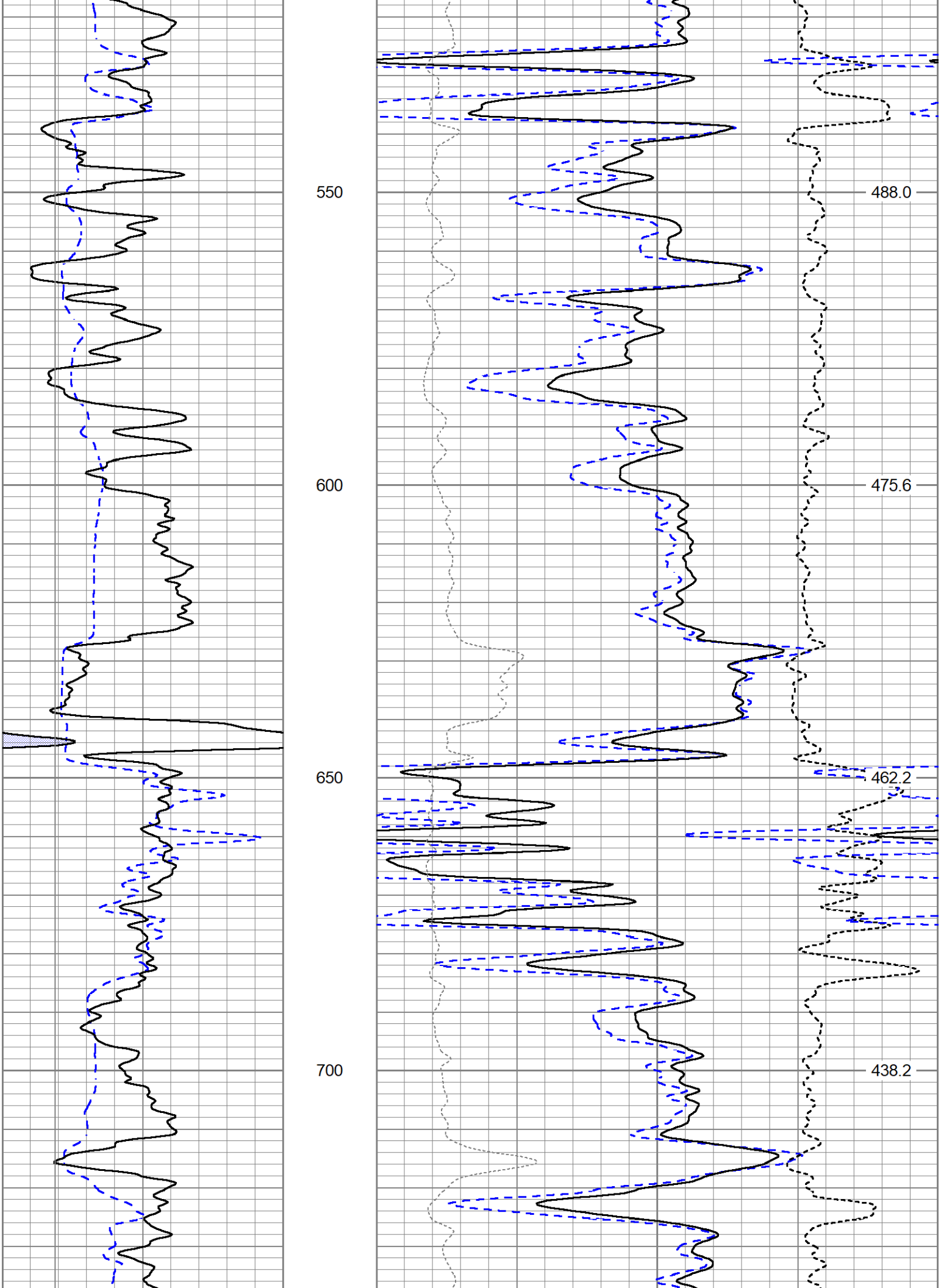
350
400
450
500
567.1
556.9
537.2
524.1
504.3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700
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475.6
462.2
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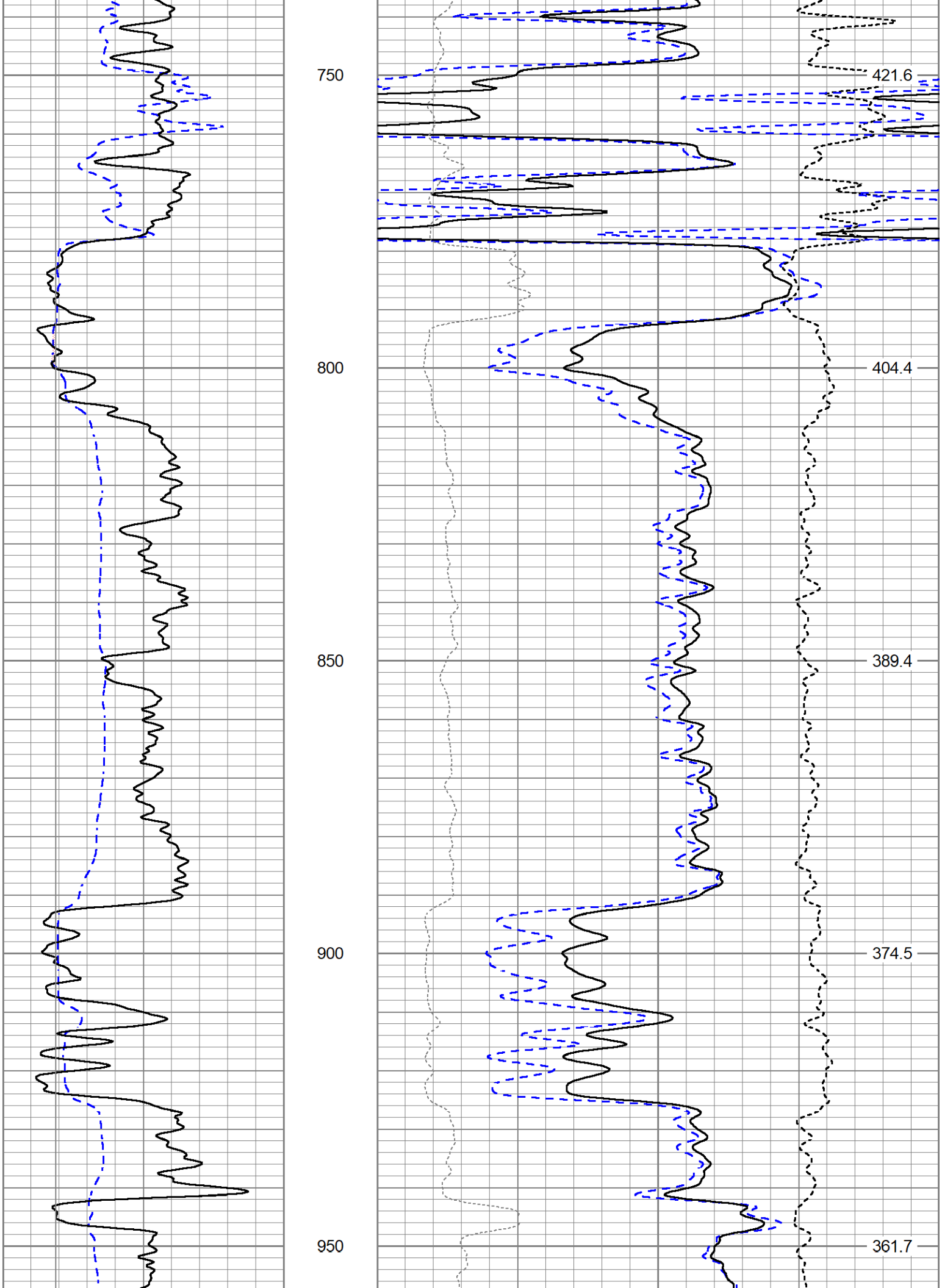
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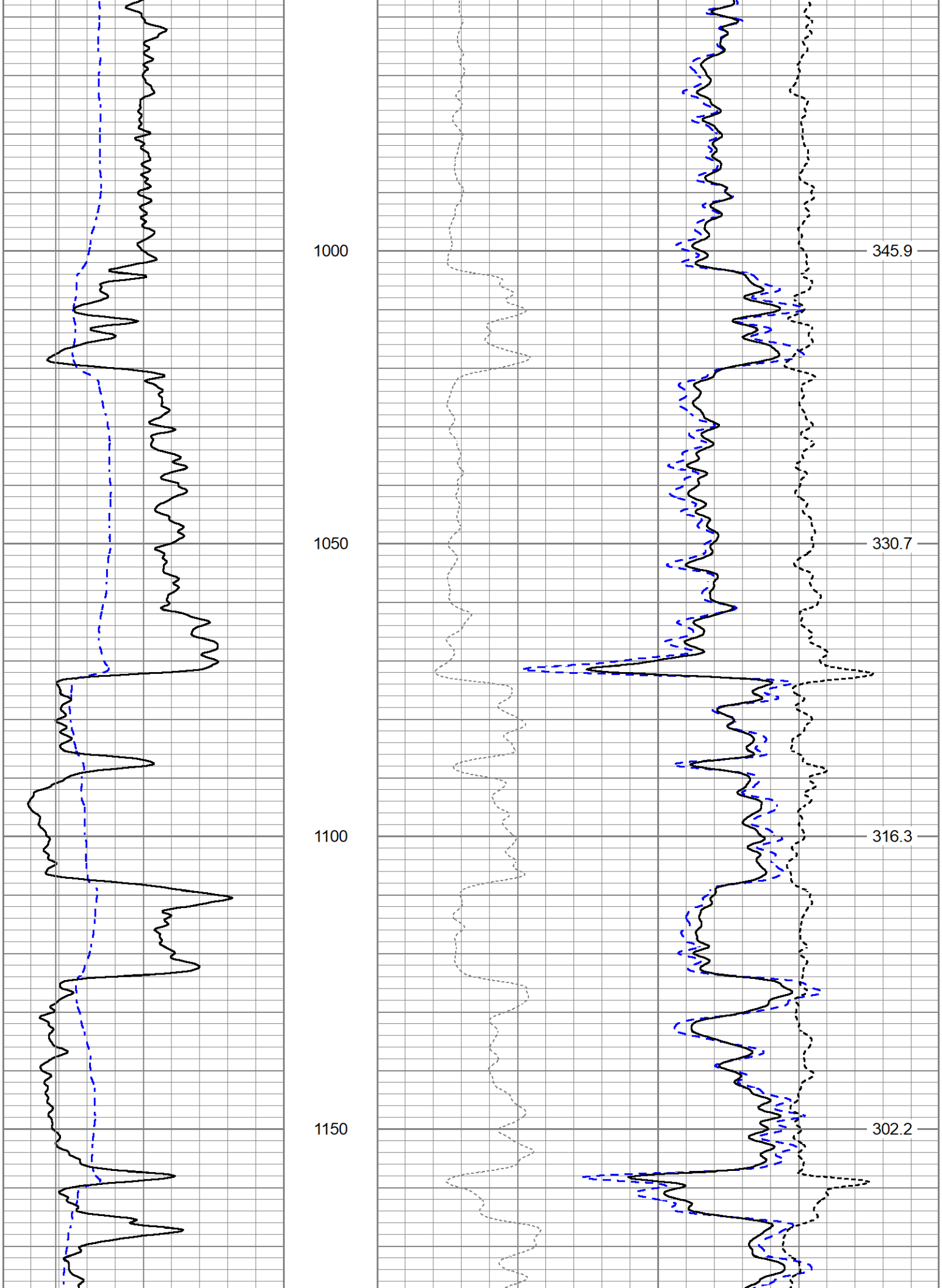
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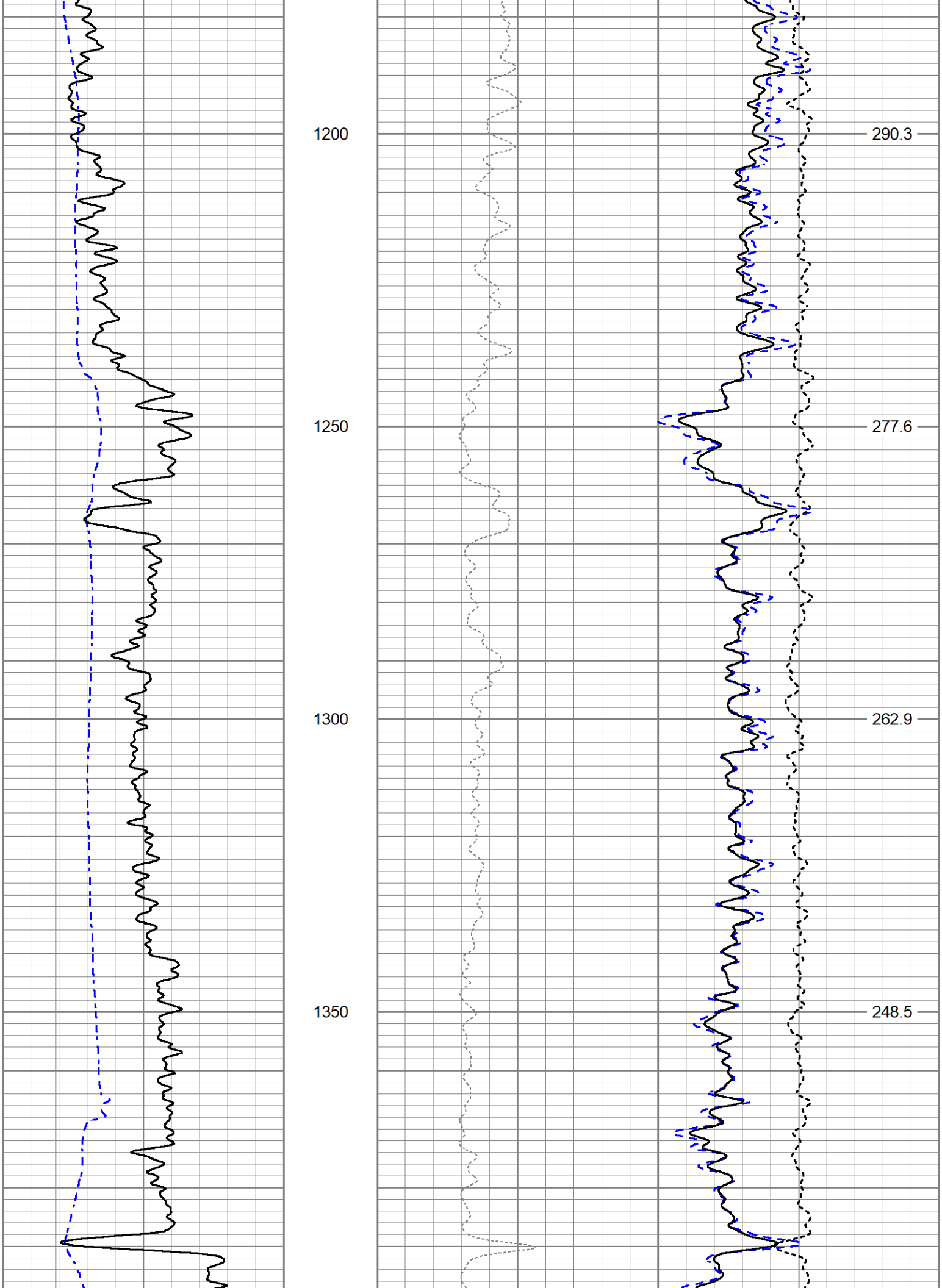
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290.3
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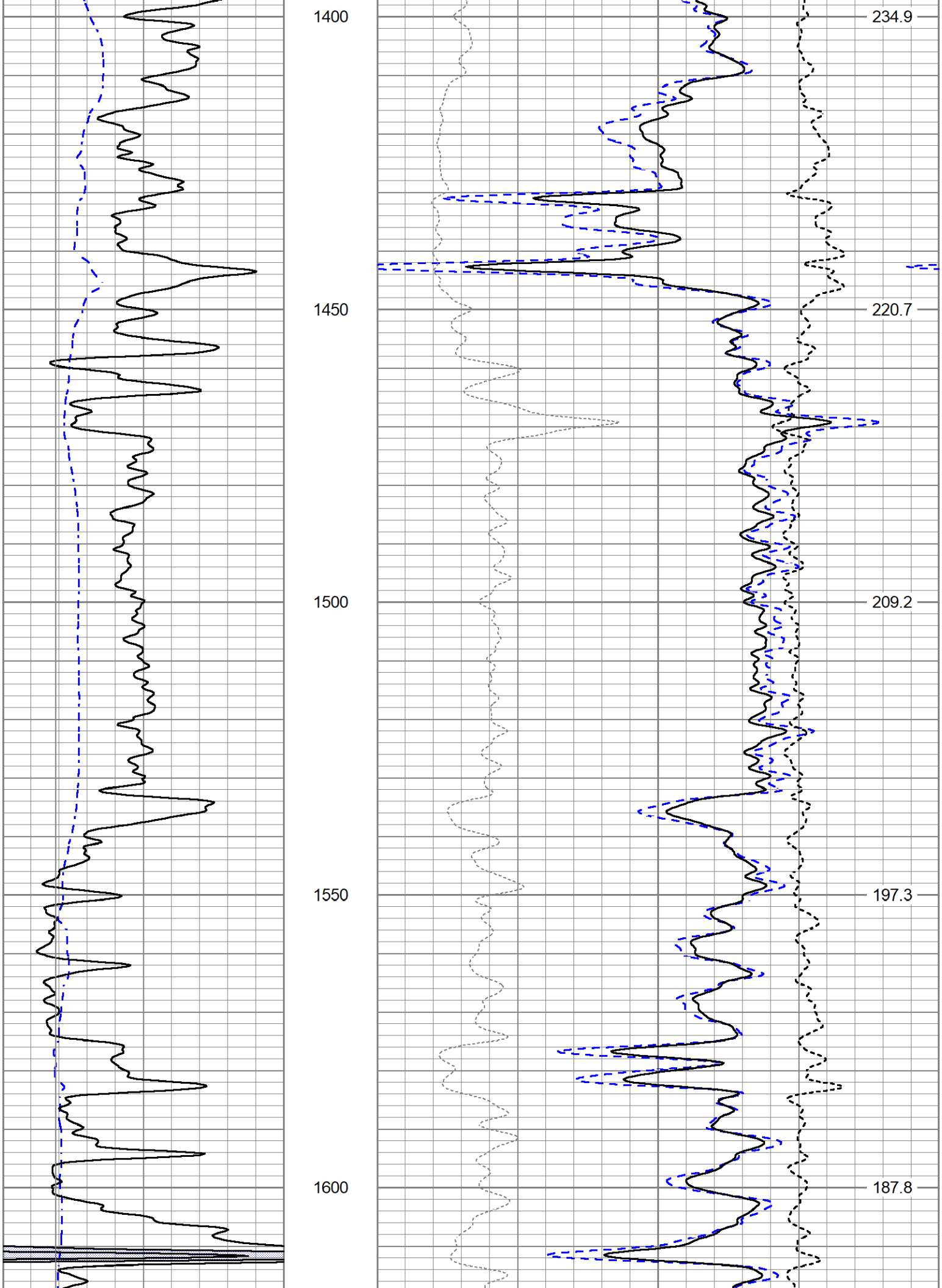
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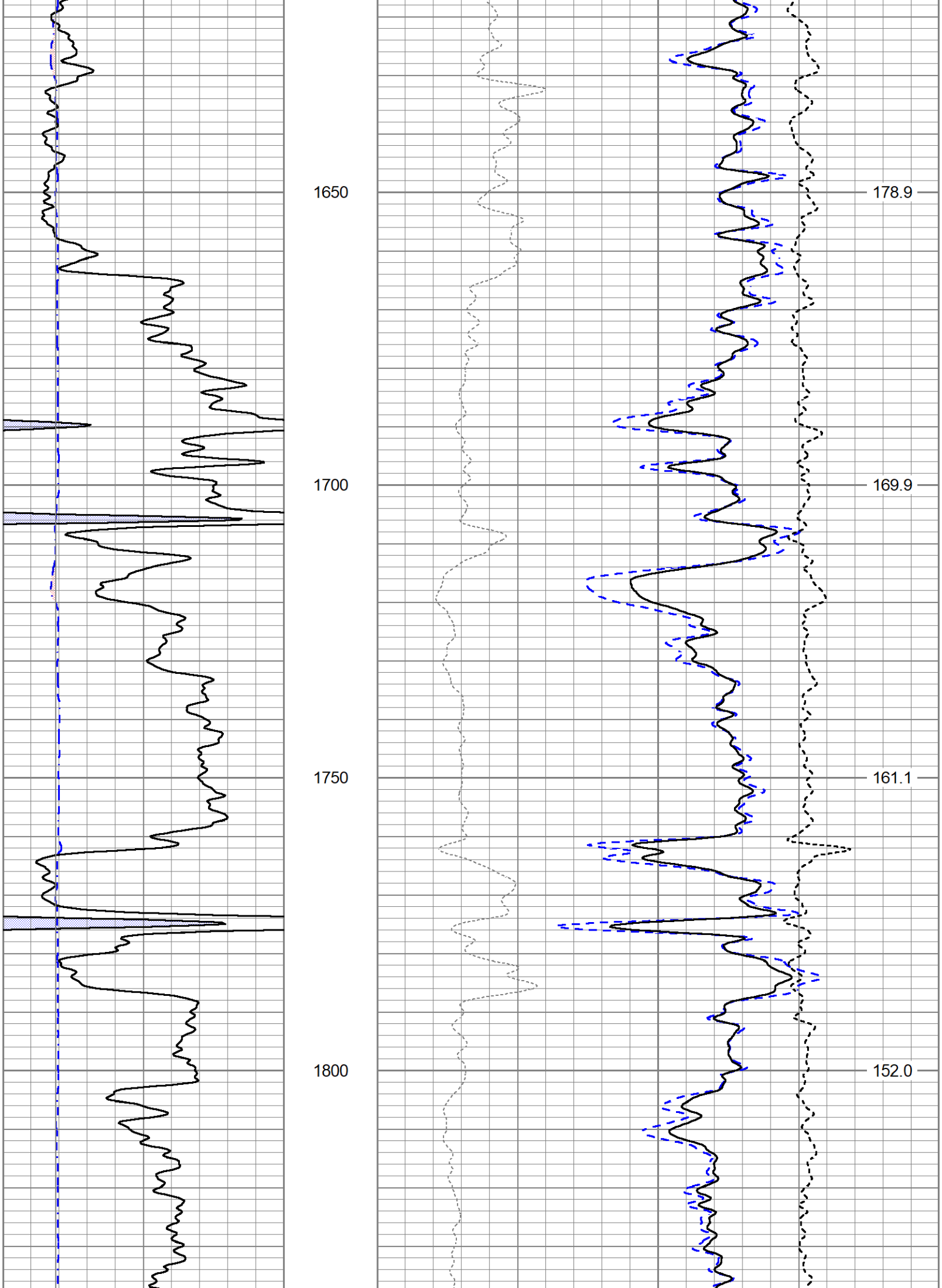
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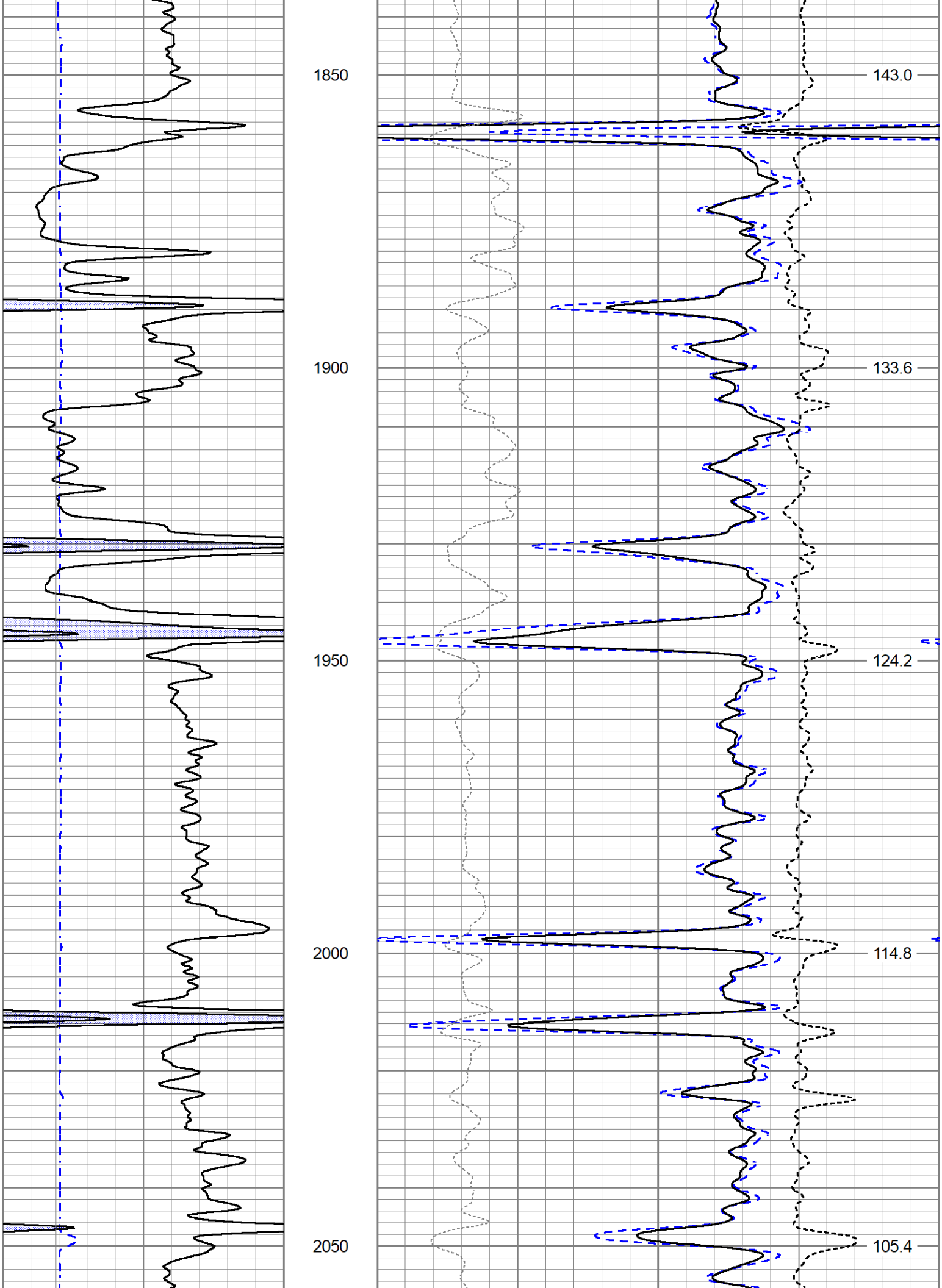
152.0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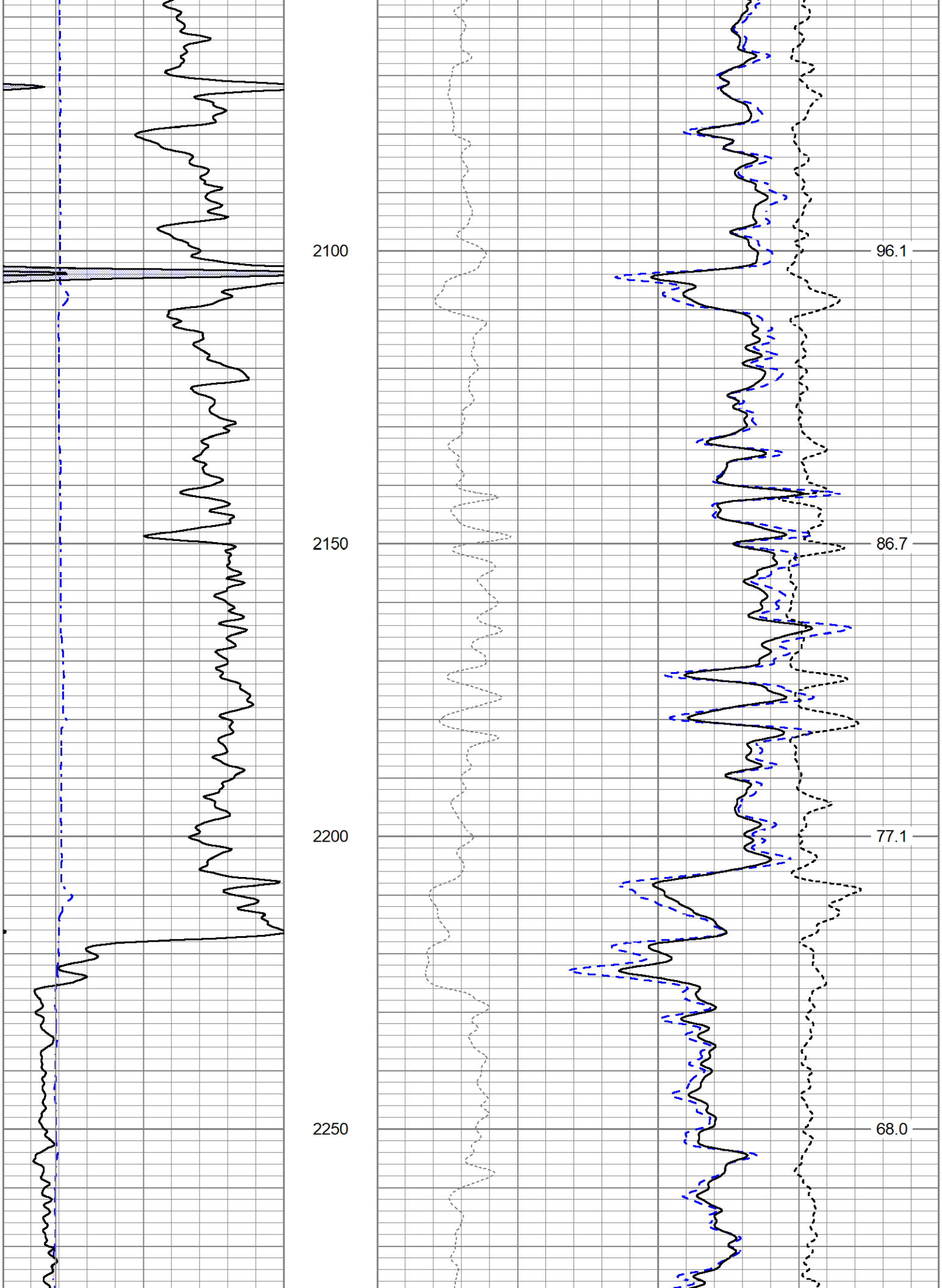
114.8
105.4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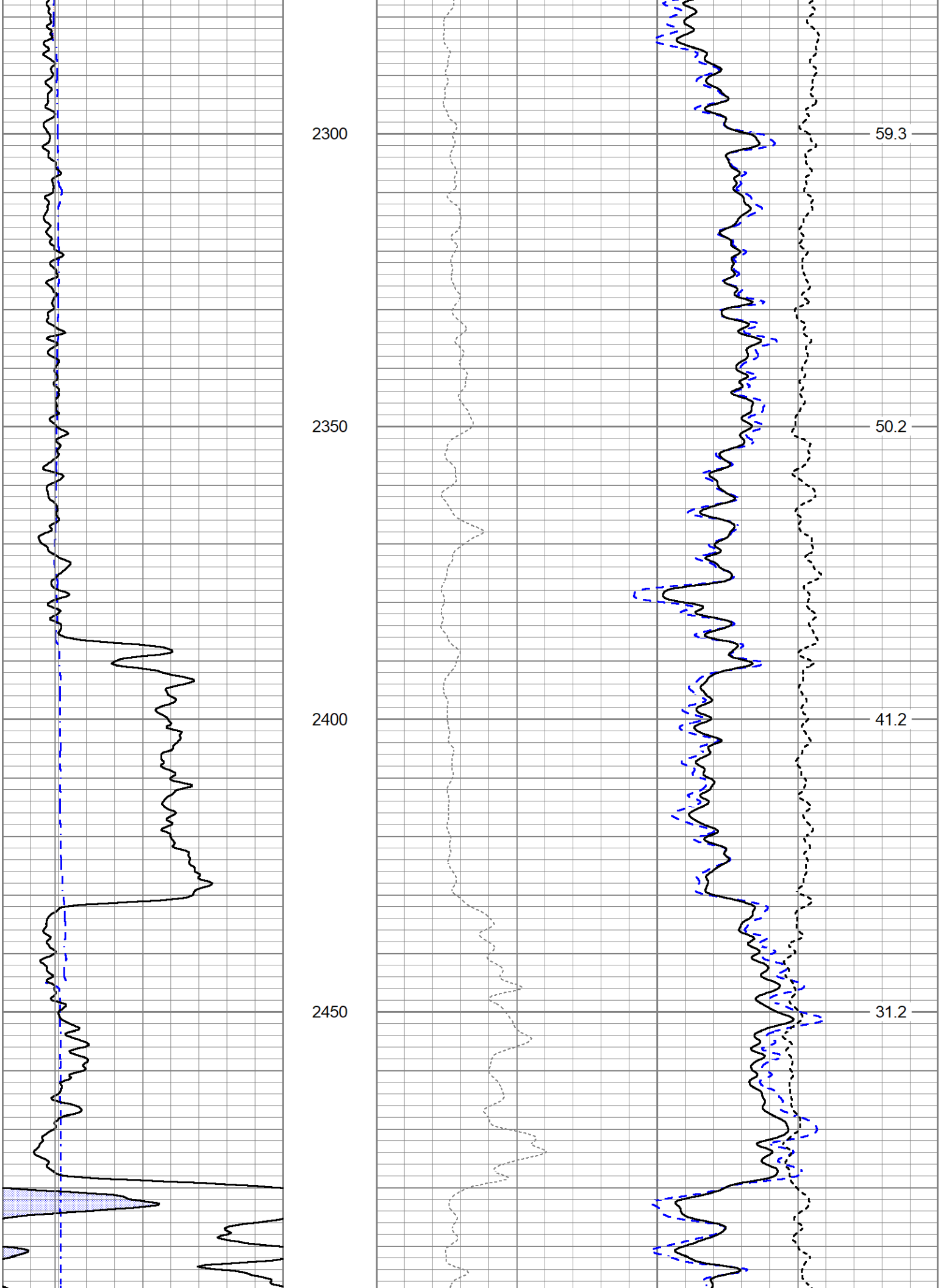
77.1
68.0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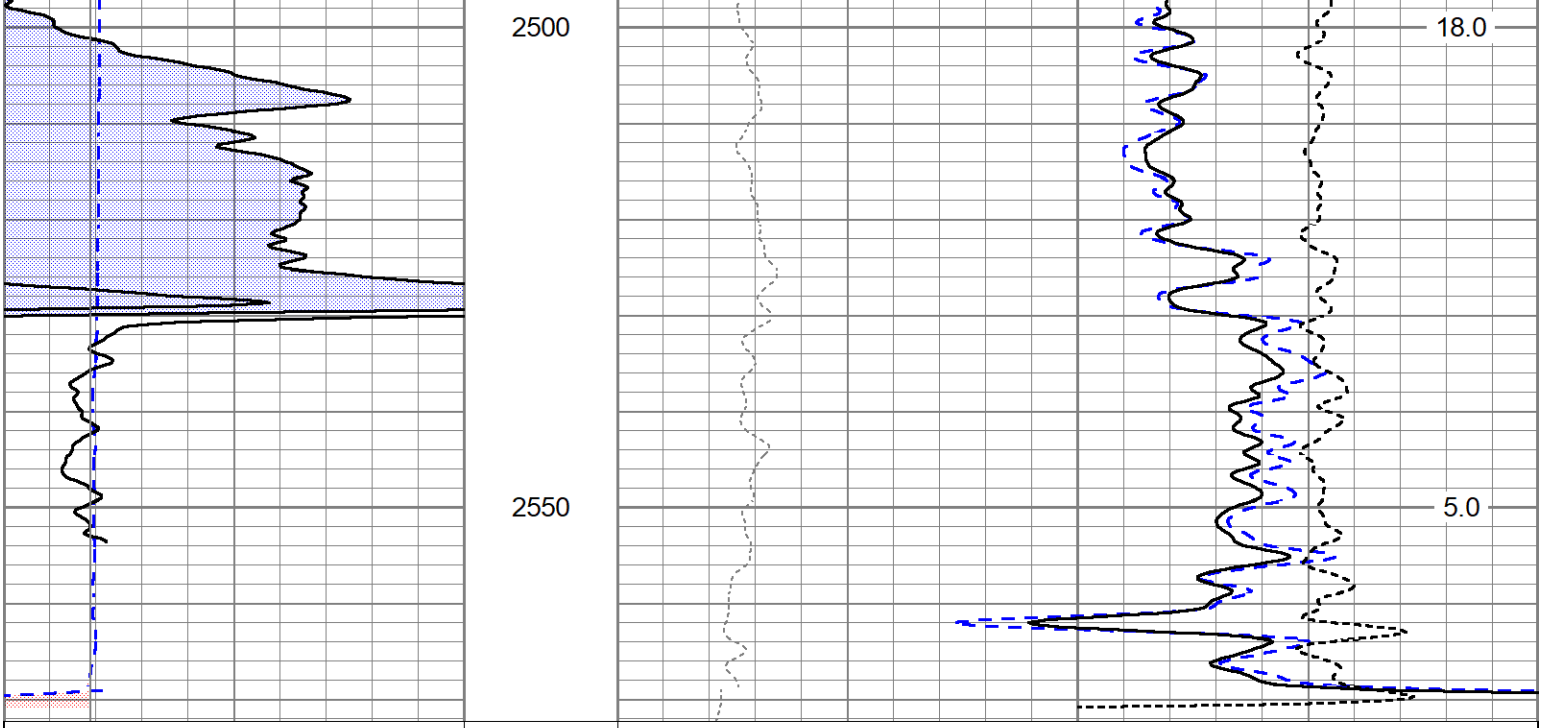
59.3
50.2
41.2
31.2



Calibration Report

Database File	ow2-9028 lone wolf.db
Dataset Pathname	pass3
Dataset Creation	Tue Mar 22 10:47:23 2022

Admyr Lithodensity Calibration Report

Serial-Model:	1B-B
Source:	Blue2
Master Calibration Performed:	Thu Mar 3 15:38:15 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	6824.39	8300.86	cps
Aluminium	2.590	g/cc	1750.33	4182.69	cps
Aluminium+Sleeve	2.713	g/cc	1436.78	3758.80	cps

Spine Angle = 63.26 Density/Spine Ratio = 0.578

	PE		NLITH	NHARD	
Magnesium	1.970	barn	4823.79	4825.45	cps
Aluminium	2.530	barn	1131.99	1292.59	cps
Aluminium+Sleeve	3.308	barn	845.95	1129.04	cps

M = 0.820 B = -0.315 R = 0.998

	Size		Reading	
Small Ring	8.60	in	3.88	V
Large Ring	14.80	in	8.96	V

Neutron Calibration Report

Serial Number:	ADMYR1		
Tool Model:	ADDON		
Performed:	Mon Mar 21 12:15:48 2022		
Calibrator Values:	0	30	
Calibrator Readings:	900	280	cps
Sensitivity:	-0.0483871	/cps	

Inclinometer Calibration Report

Performed: Thu Oct 8 13:57:38 2020

	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:	Refurb01	
Tool Model:	OSAGE_01	
Performed:	Mon Jan 18 09:02:16 2021	
Calibrator Value:	150.0	GAPI
Background Reading:	125.0	cps
Calibrator Reading:	875.0	cps
Sensitivity:	0.2000	GAPI/cps

Sensor	Offset (ft)
ACCY	17.83
ACCX	17.83
GR	16.65
FRAMES	15.33
SSTAT	15.33
PSTAT	15.33
ASTAT	15.33
NEU	11.66
DCAL	2.79
LS_HV	2.63
LS8	2.63
LS7	2.63
LS6	2.63
LS5	2.63
NHARD	2.63
LSD	2.63
LS2	2.63
NLITH	2.63
LSTAT	2.17
LSV	2.17

Schematic

Description	Length (ft)	O.D. (in)	Weight (lb
ADMYR_TELEMETRY-OSAGE_01 (Refurb01) Admyr Telemetry With Gr, Deviation, ADC board and Pulses Board in it.	3.69	3.25	53.00
NEU-ADDON (ADMYR1) Inline Neutron	5.65	3.38	84.00
ADT1LITH-B (1B)	9.69	4.25	238.00

Dataset:	ow2-9028 lone wolf.db: field/well/run1/pass3
Total length:	19.02 ft
Total weight:	375.00 lb
O.D.:	4.25 in