Pulsed Neutron
Gamma Ray
Casing Collar Log

RELIANCE OILFIELD SERVICES

API #:
Company: Hydro Resources
Well: ECCV DI-2
Field: Wattenberg
County: Adams
State: Colorado

COMPANY: Hydro Resources

WELL: ECCV DI-2

FIELD: Wattenberg

COUNTY: Adams STATE: Colorado

Location: **API#:**

SHL:

BHL:

Latitude: 0 deg **Longitude:**

Section: 1 **Township:** 1S **Range:** 66W

Permanent Datum: G.L. Elevation: 5018'

Drill Measured From: K.B.

Log Measured From: K.B. = 16' above Permanent Datum

Elevations

KB:	5034'
DF:	5033'
GL:	5018'

Other Services

Date	1-July-2016		
Run Number	1		
Depth Driller	9055 FT		
Depth Logger	9055 FT		
Bottom Logged Interval	9055 FT		
Top Logged Interval	600 FT		
Fluid Type	Water		
Fluid Top	Surface		
Max. Rec. Temperature	N/A		
Estimated Cement Top	N/A		
Time on Bottom	19:35		
Unit Number	N/A		
Location	Ft Lupton		
Recorded By	A. Ellsworth		
Witnessed By	Fred Rothage		

Borehole Record

Run Number	Bit Size	Top	Bottom
One	14.75"	0	1760
Two	9.875"	1760	9088

Tubing Record

Size	Weight	Top	Bottom

Casing Record

String	Size	Weight	Top	Bottom
		0.000 kg/m		
Surface	10.75"	40.5 lbs/ft	Surface	1760 ft
Intermediate	7.625"	26.4 lbs/ft	Surface	9088 ft

API #: Hydro Resources ECCV DI-2

EQUIPMENT DATA

Run	Trip	Instrument	Series No.	Serial No.	Distance to Reference
		SRBL			
		Knuckle Joint	None	0814	4.810 ft
		Inline Centralizer	None	0595t	7.664 ft
		RSBT	011	1333A	10.551 ft
		Inline Centralizer	None	0595b	20.335 ft
		PDN	029	1471A	23.222 ft

REMARKS

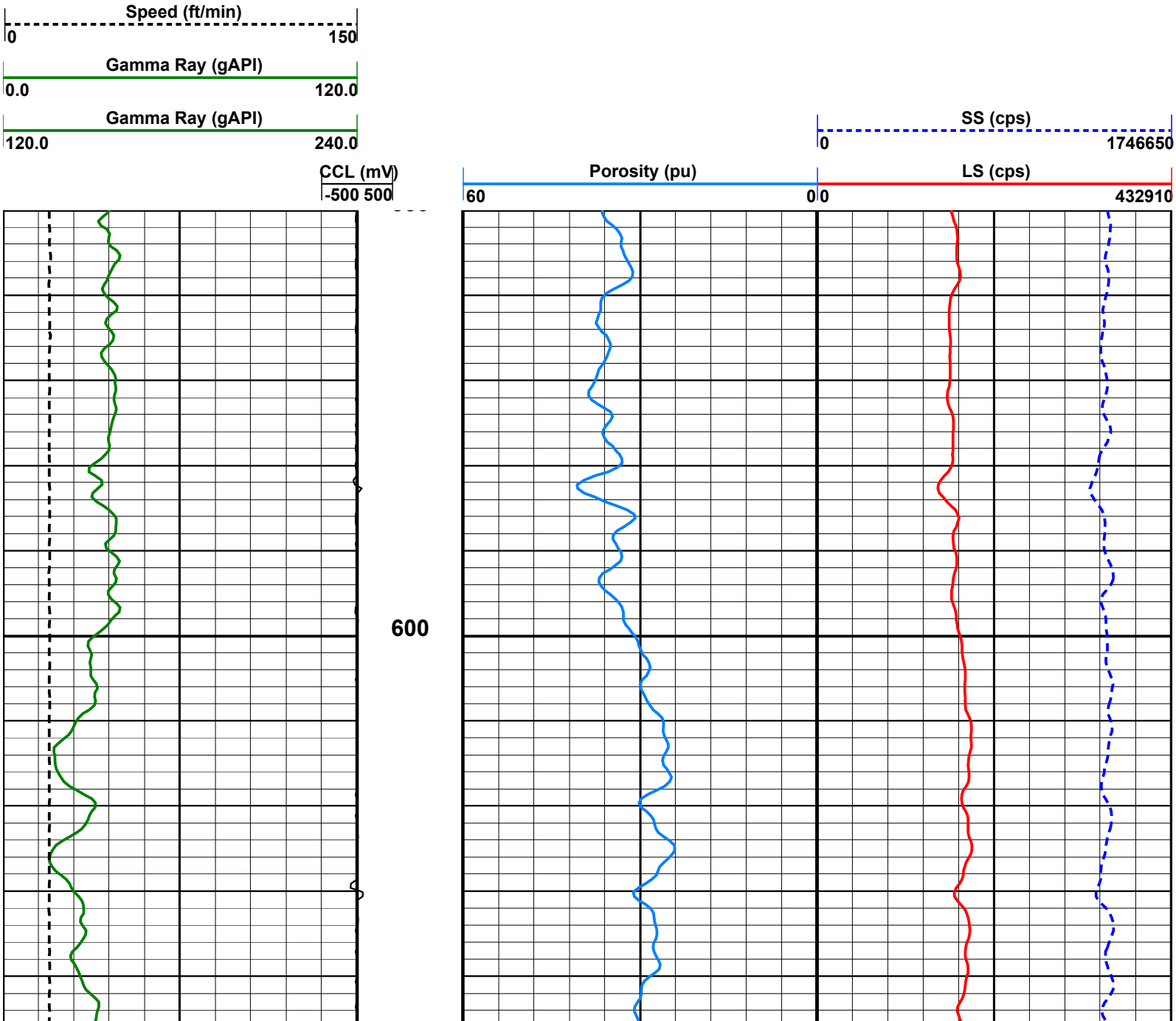
Log ran as per customer request
Depth referenced to: End of Surface Casing
Log ran from 9055' to surface
Log ran under 1000 PSI surface induced pressure

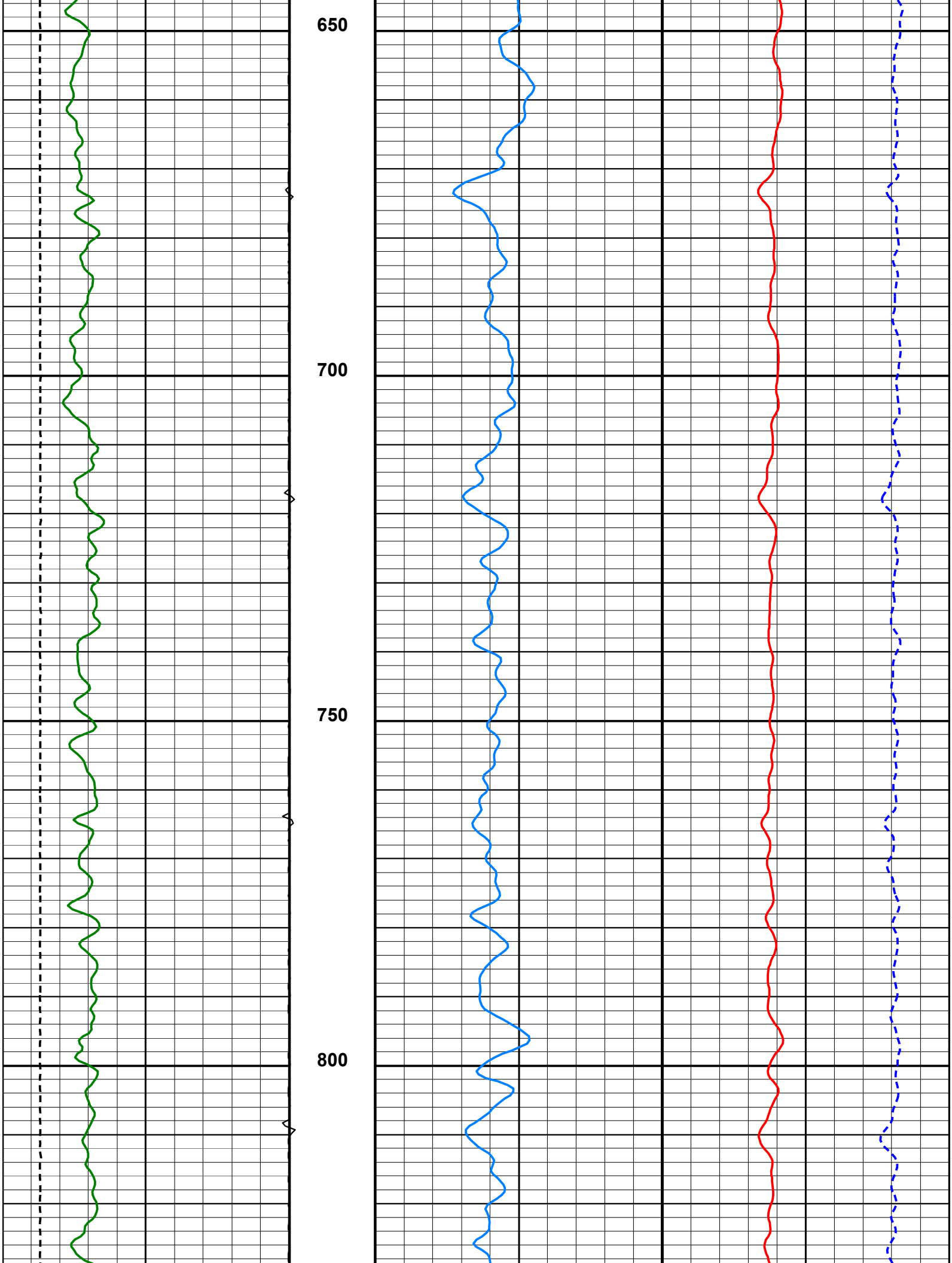
Thank you for choosing Reliance Oil Field Services

In making interpretations of logs, Contractor's employees will give the customer the benefit of their best judgement, but since all interpretations are opinions, based on inferences from electrical or other measurements, Contractor cannot, and does not, guarantee the accuracy or the correctness of any interpretation.

Main Pass

Company	:	**Date**	: 01.07.2016
Well	:	**Time**	: 19:35:55
Scale	: 1 : 200	**Remarks**	:
Depth in	: Feet		
Software	: WinAPlot Ver. 5, 92, 12, 0	**File Name**	: New Log1

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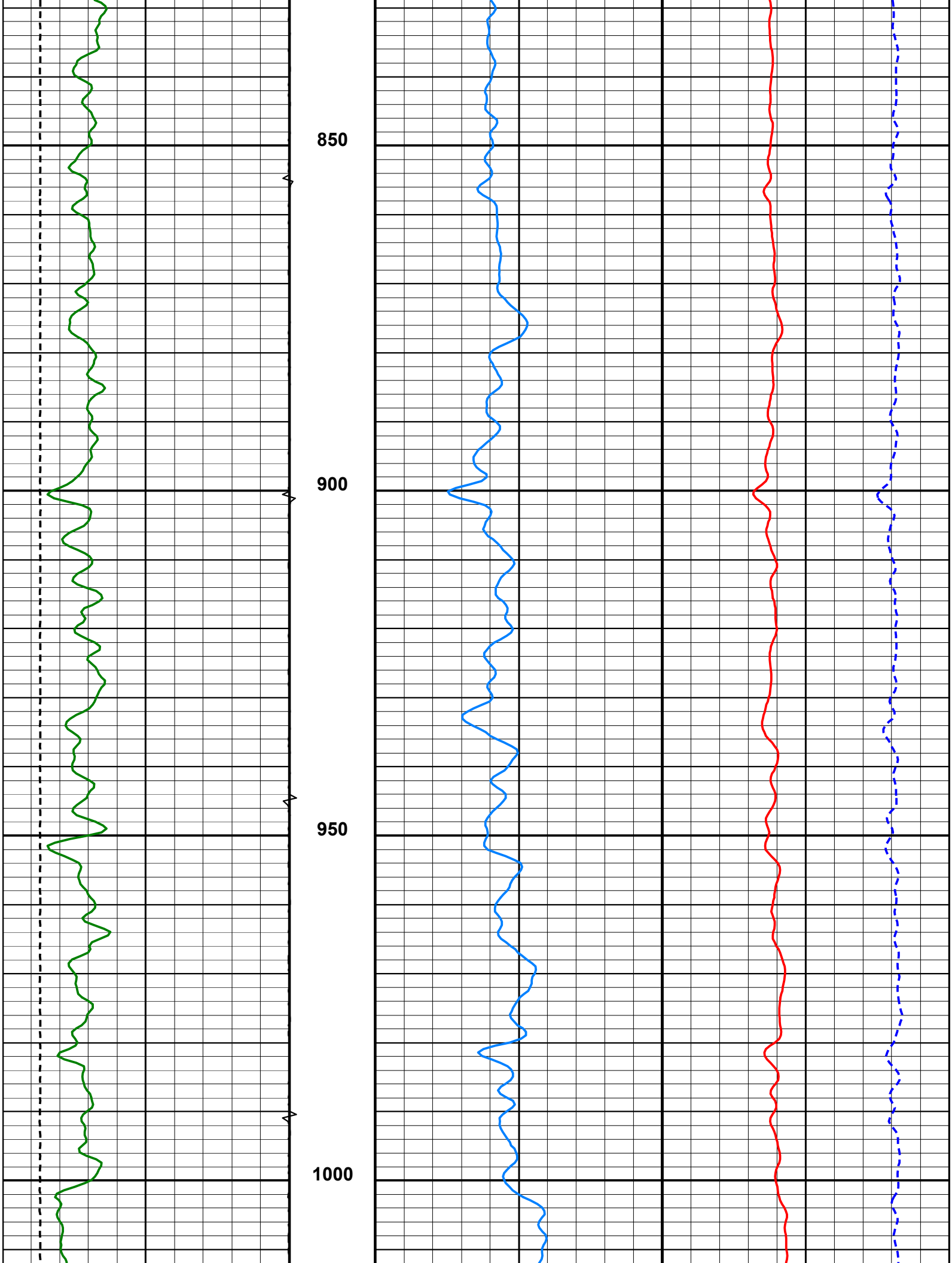
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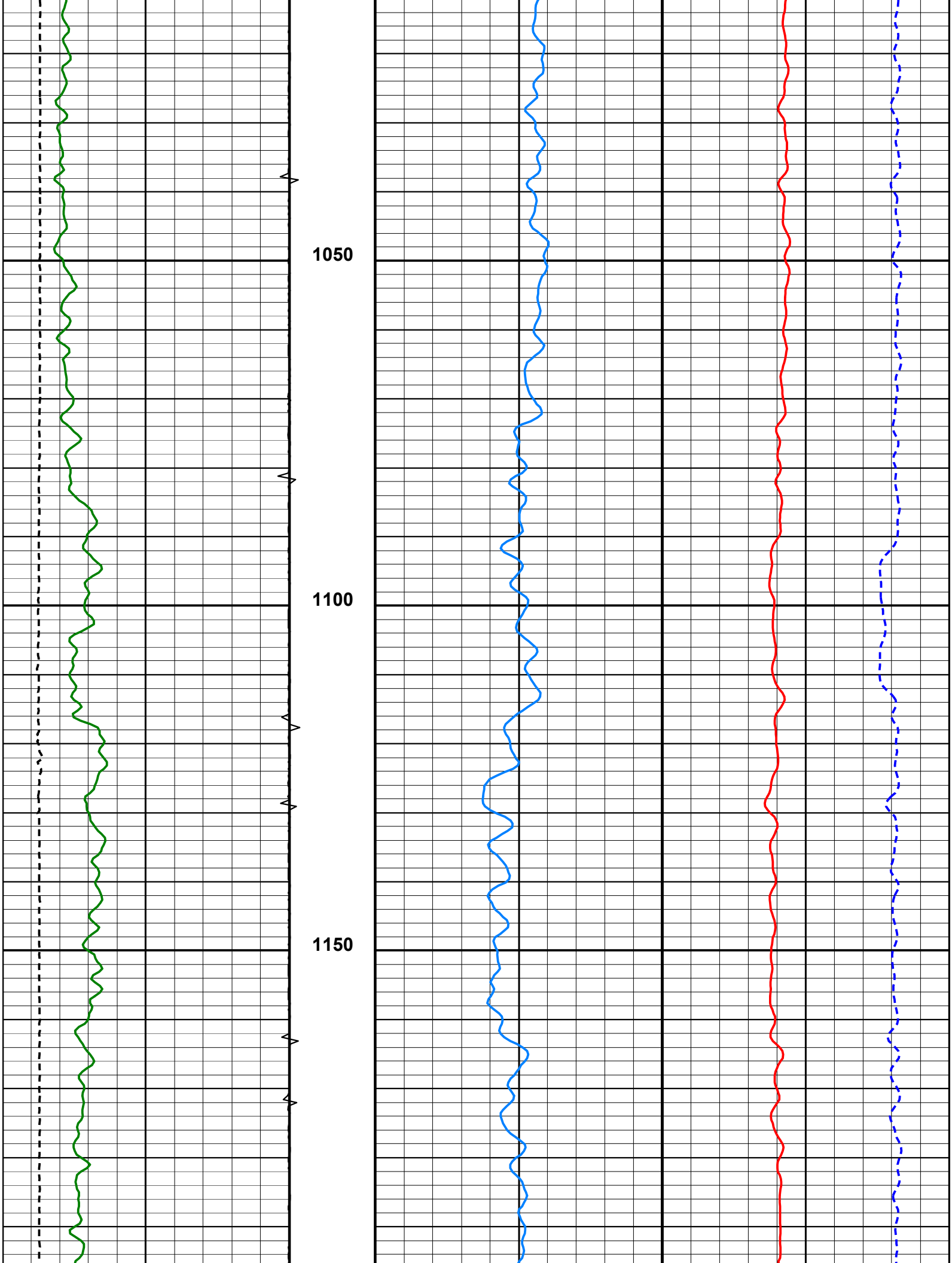
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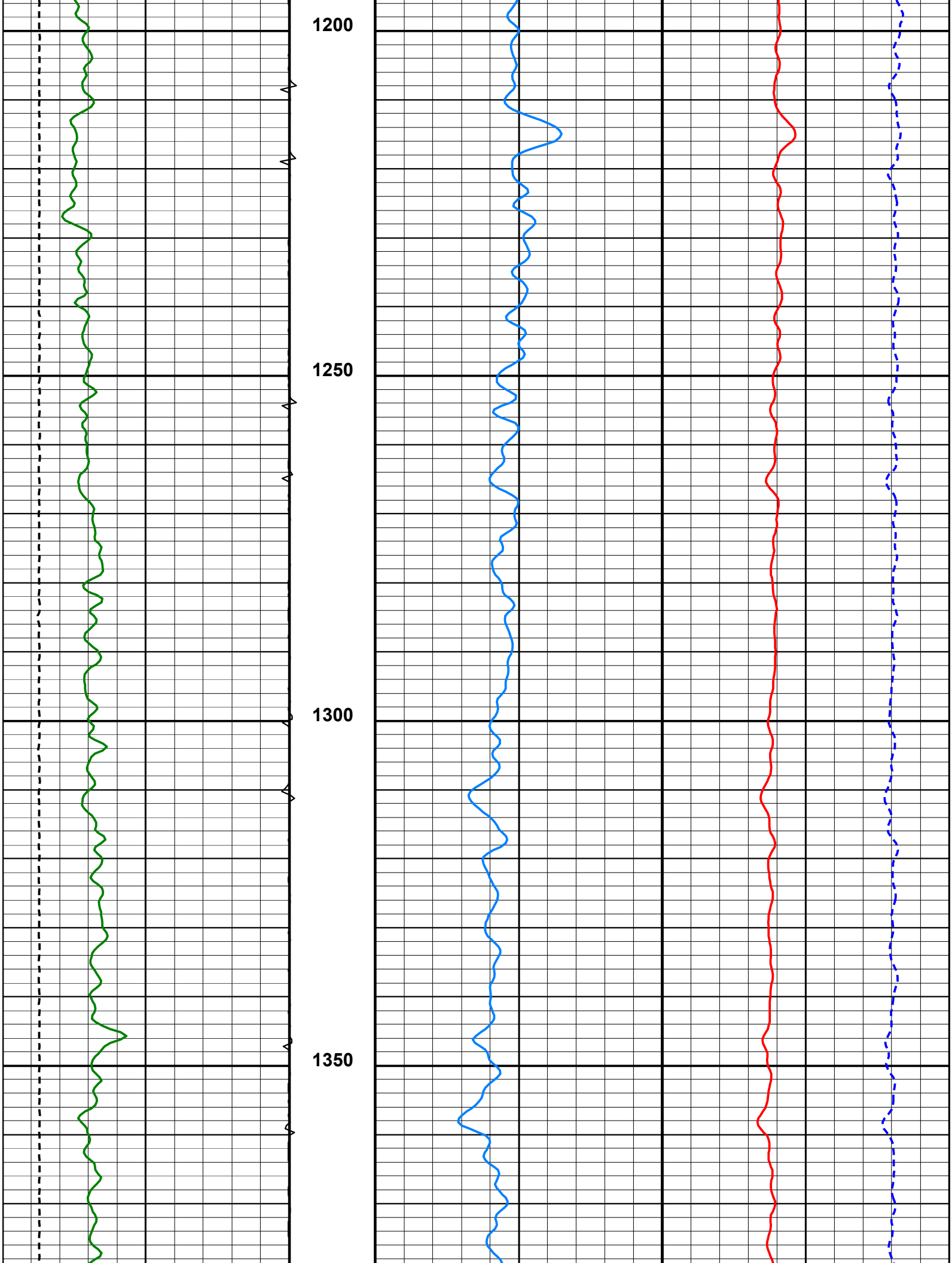
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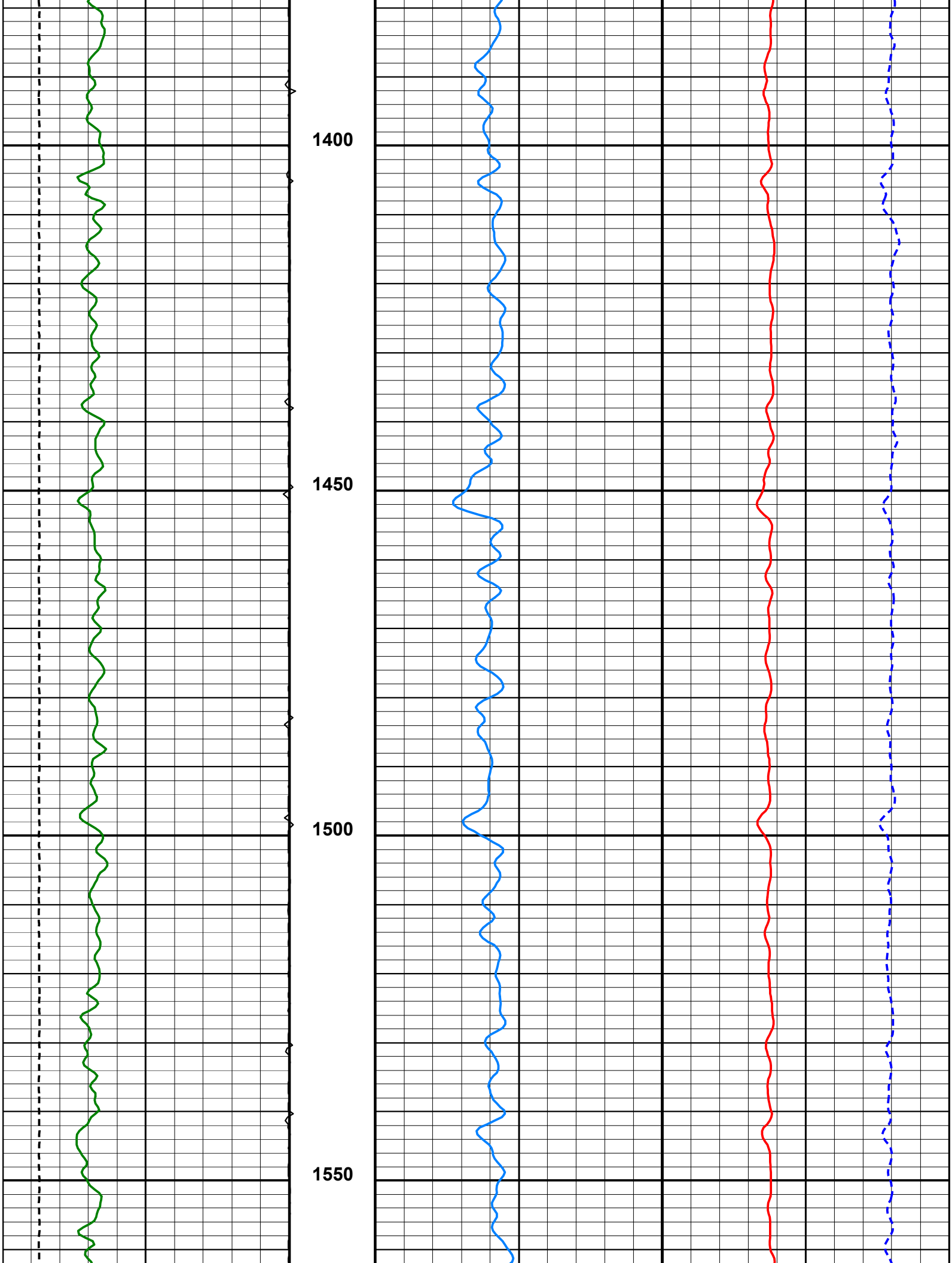
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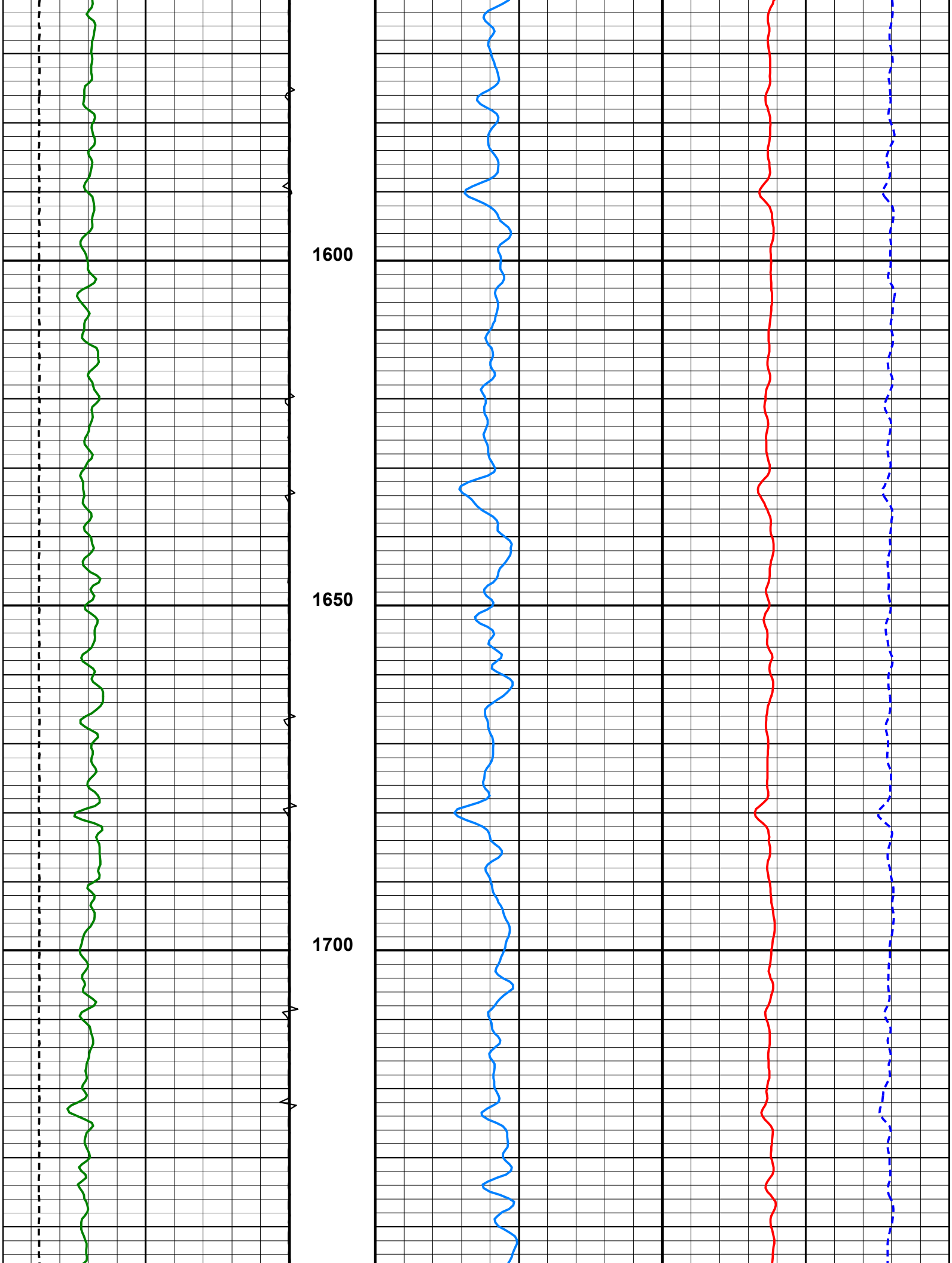
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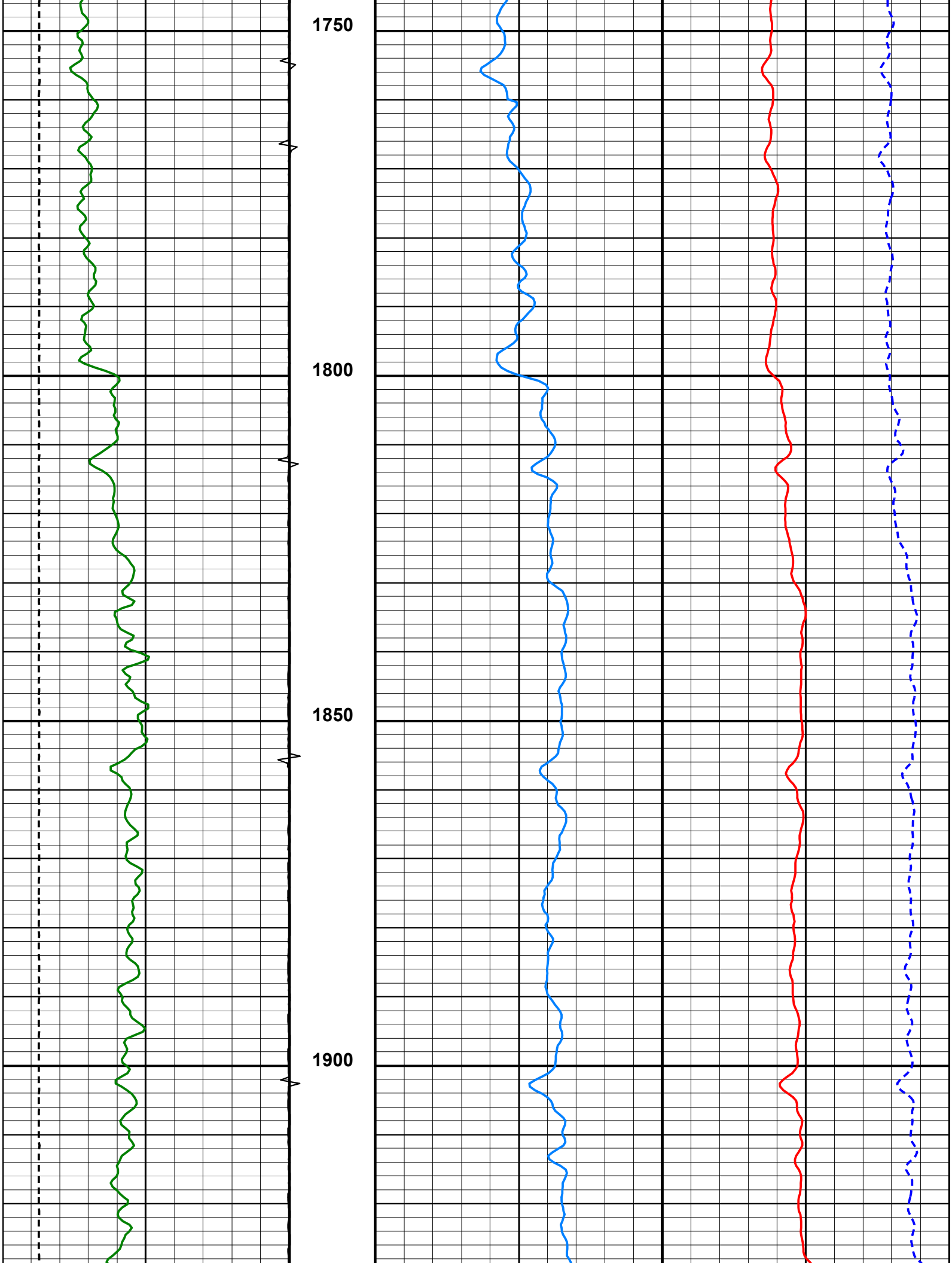
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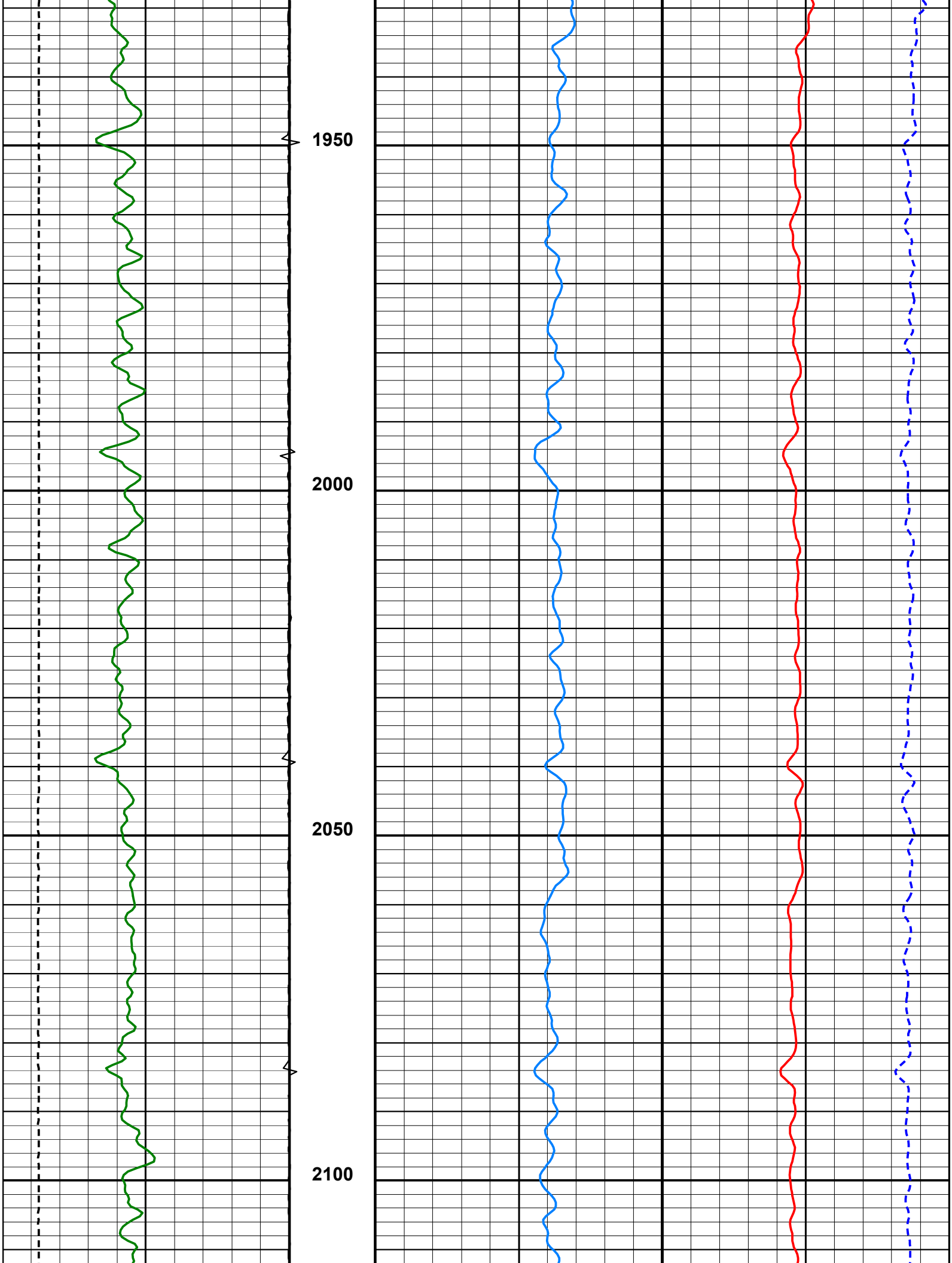
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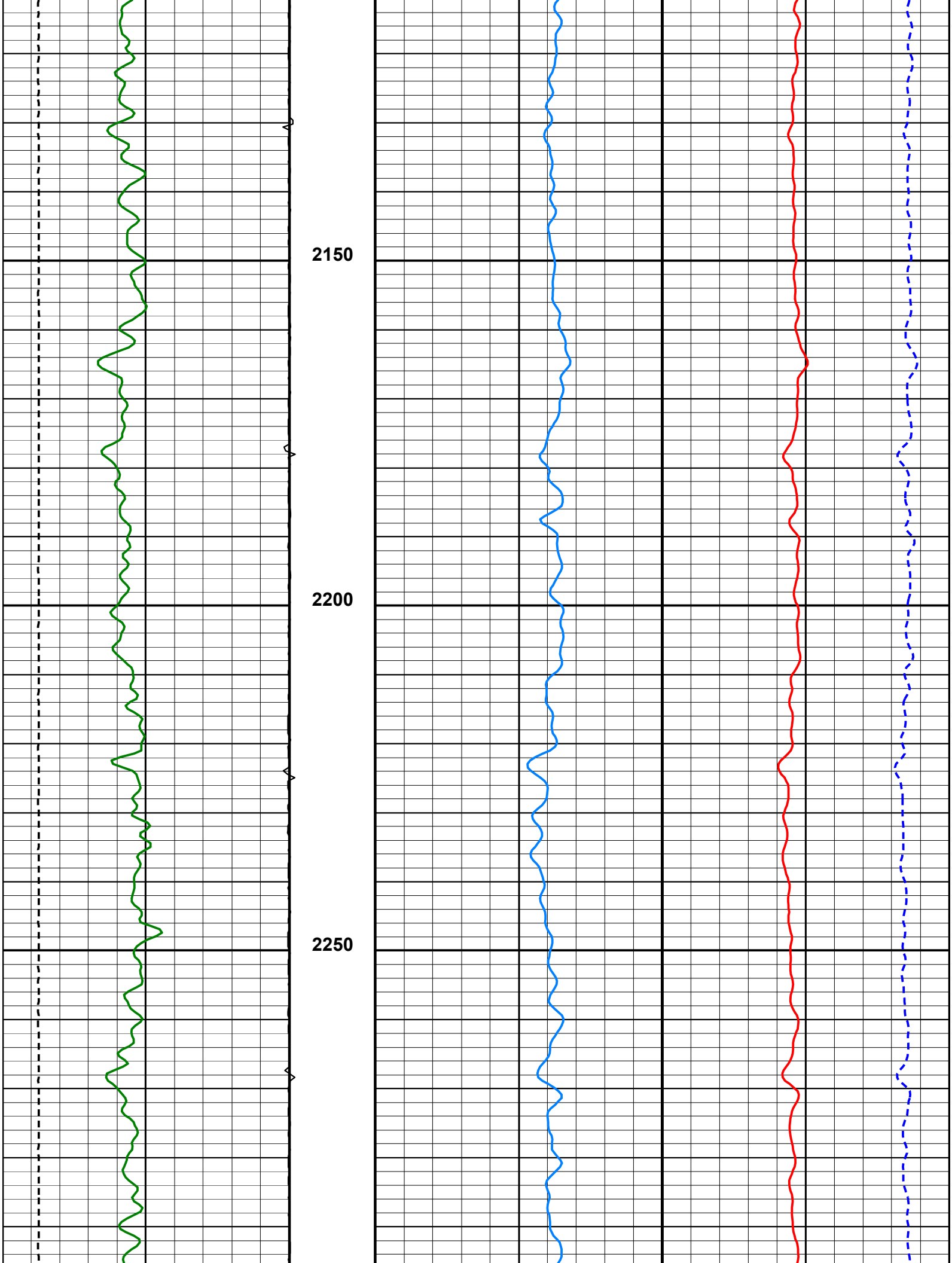
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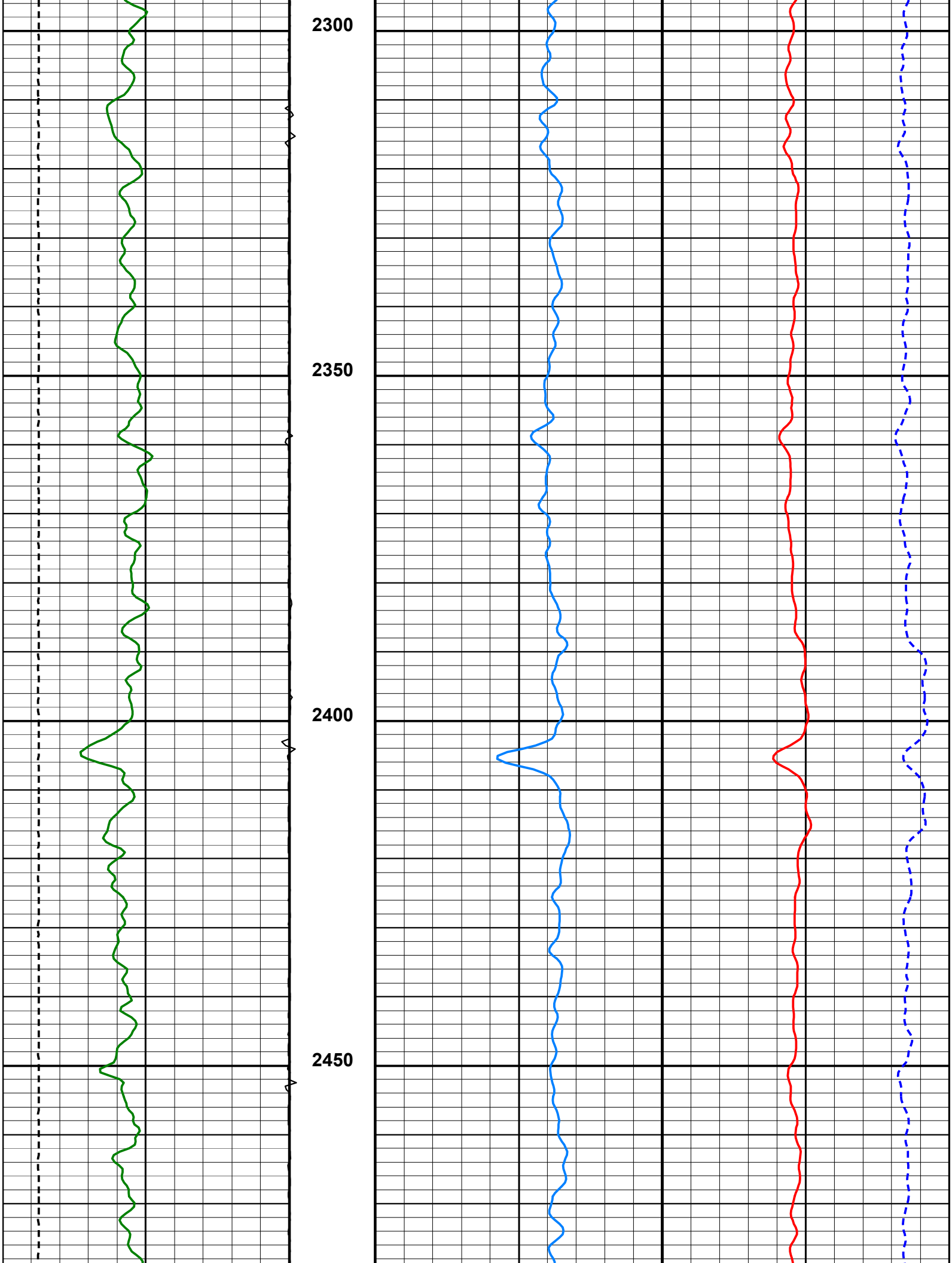
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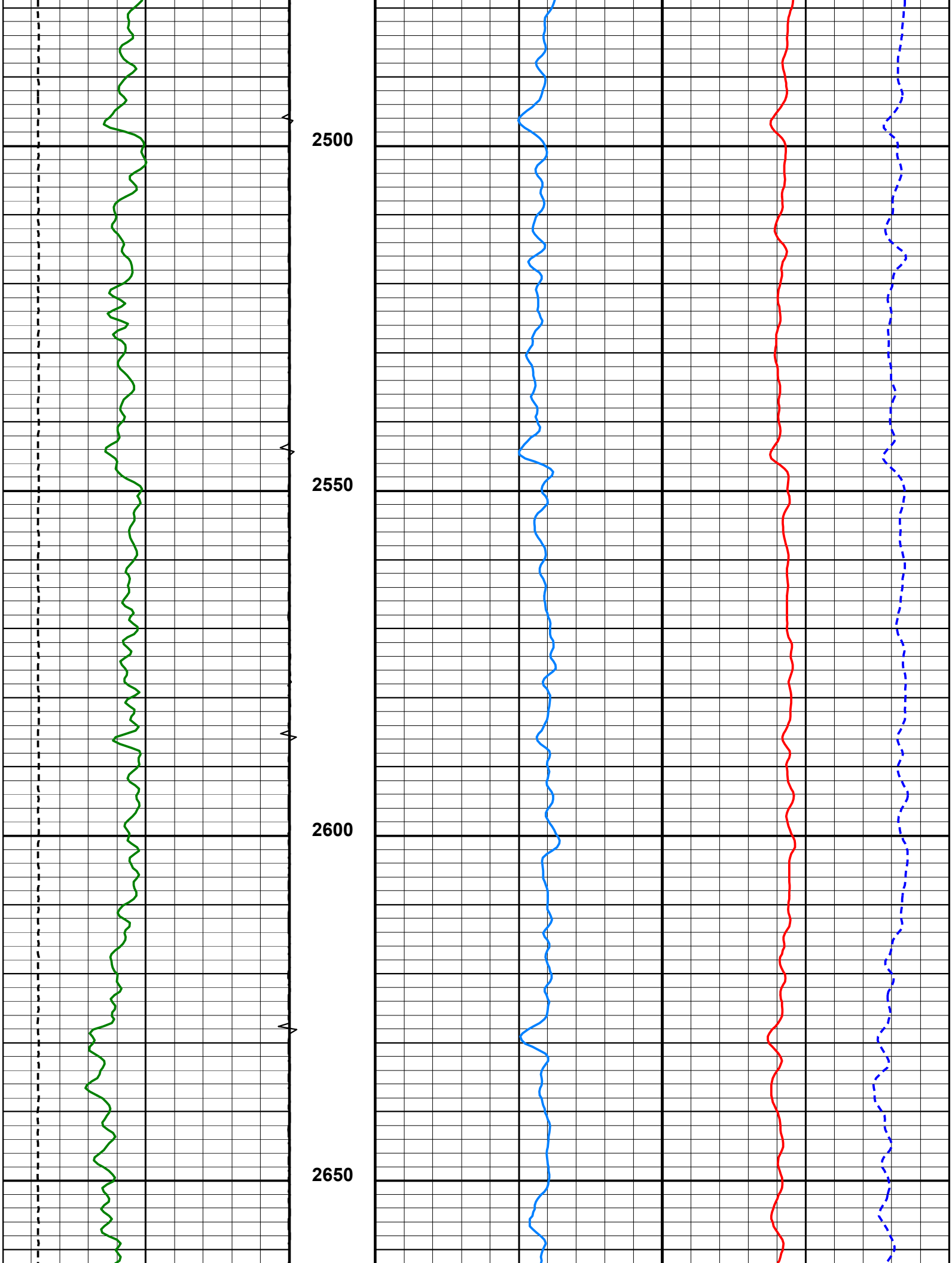
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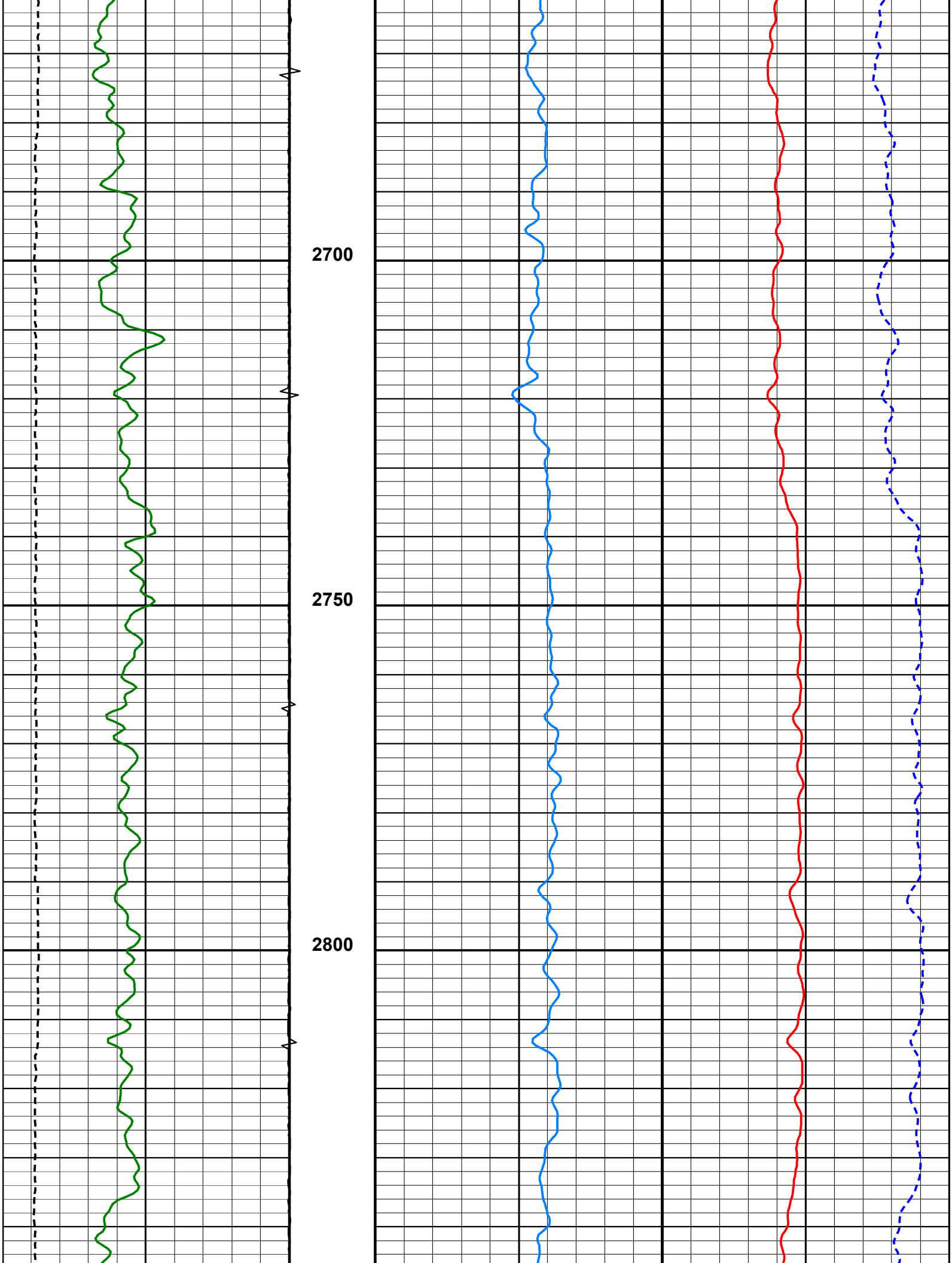
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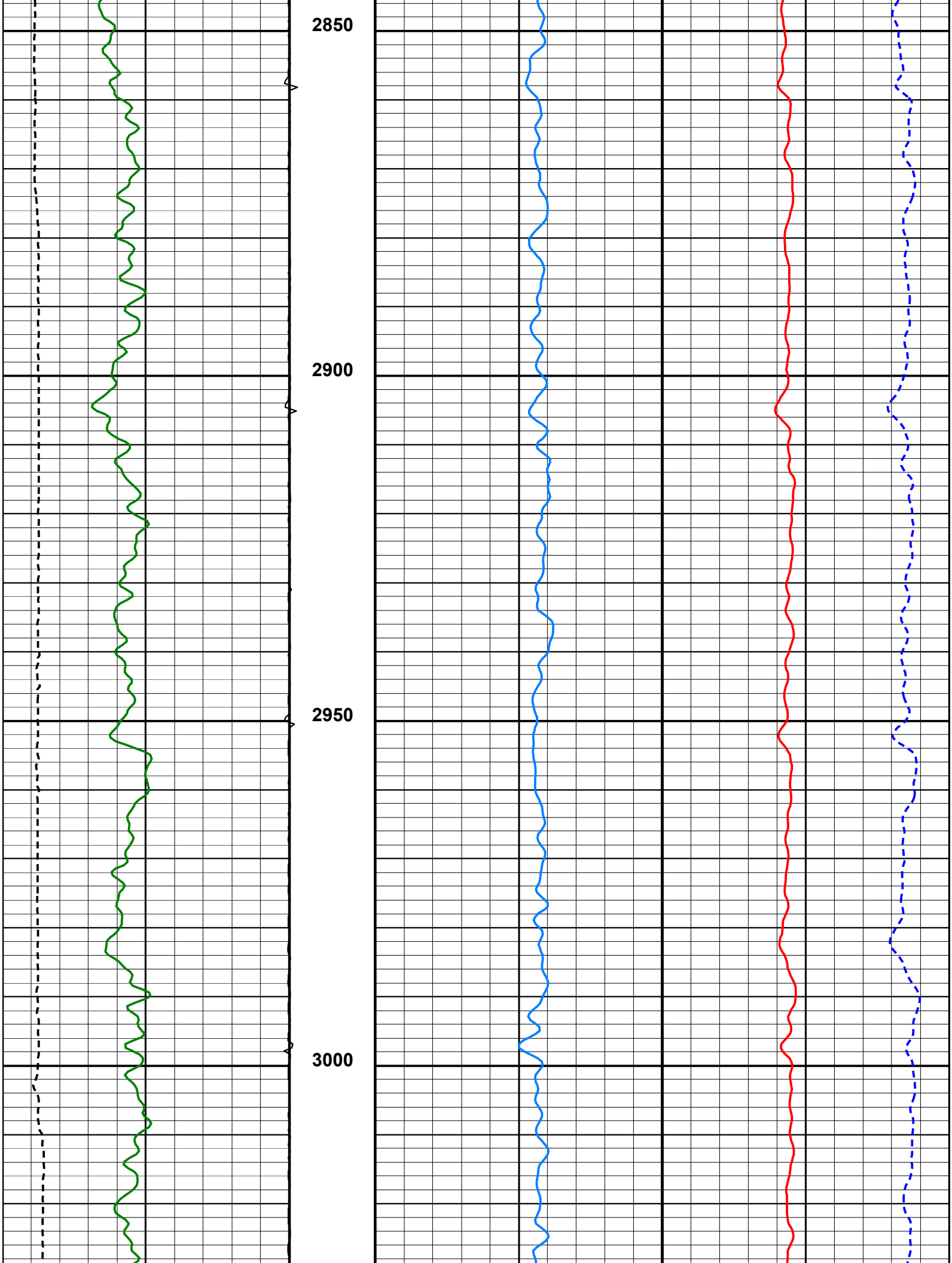
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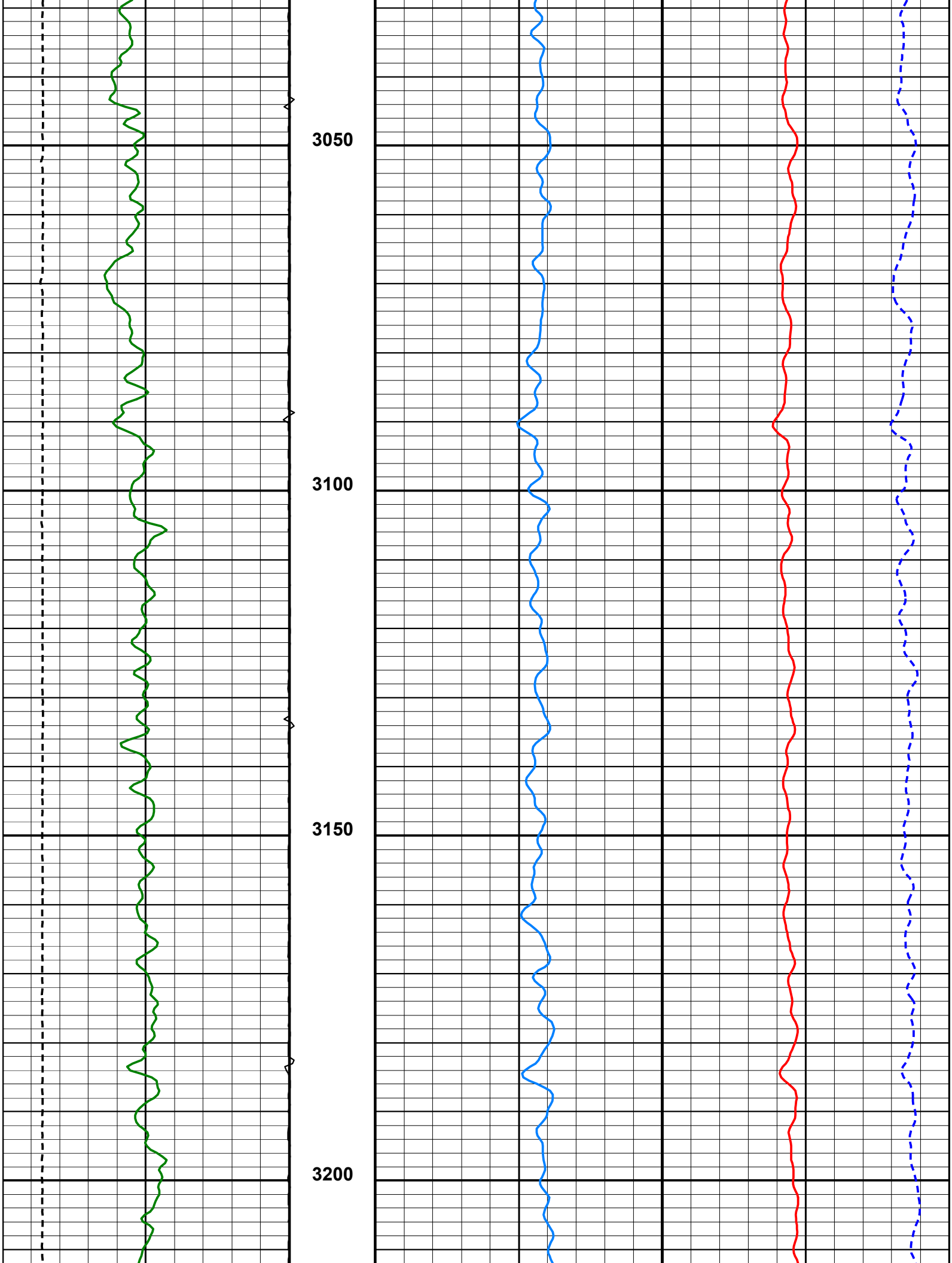
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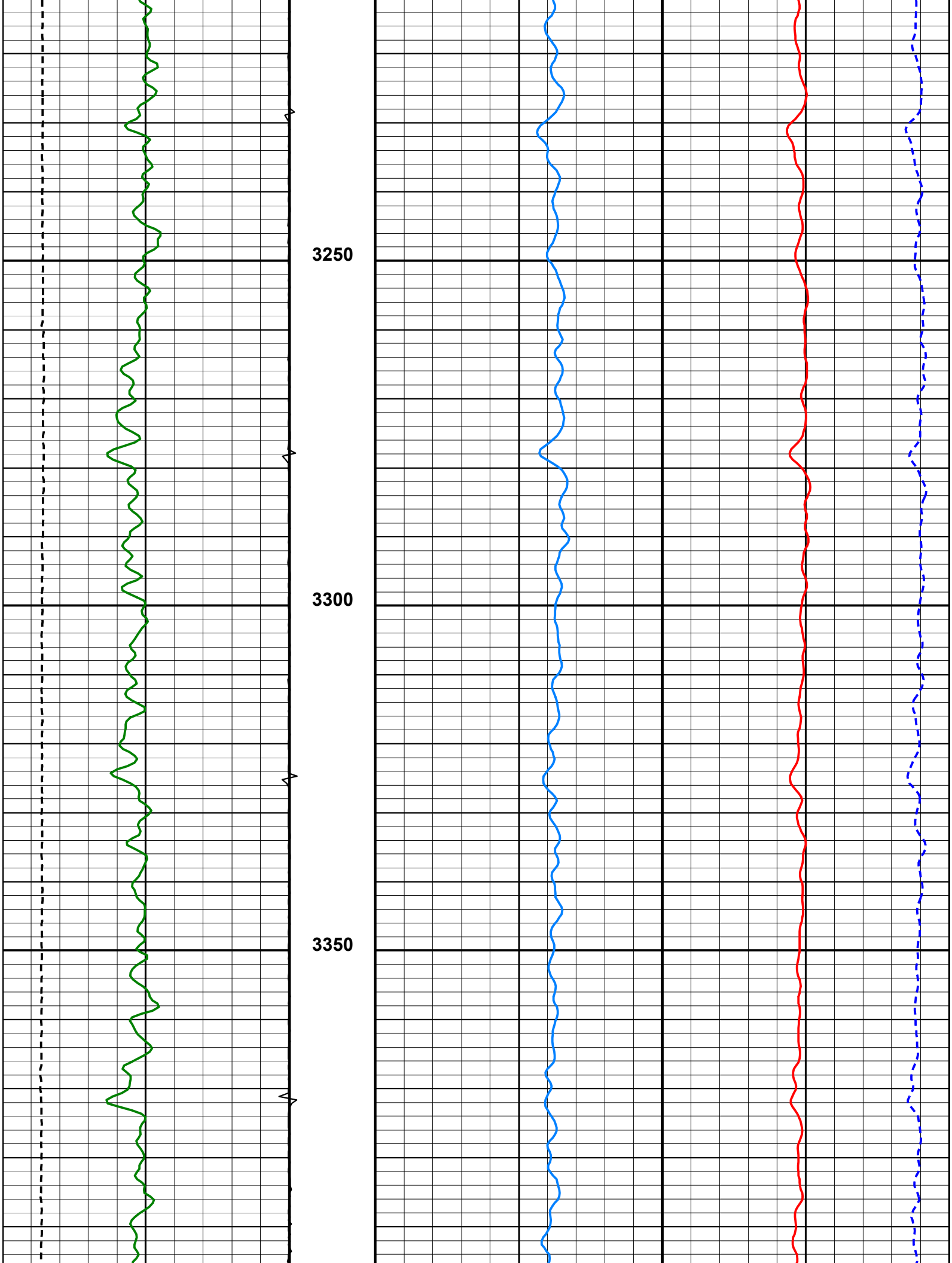
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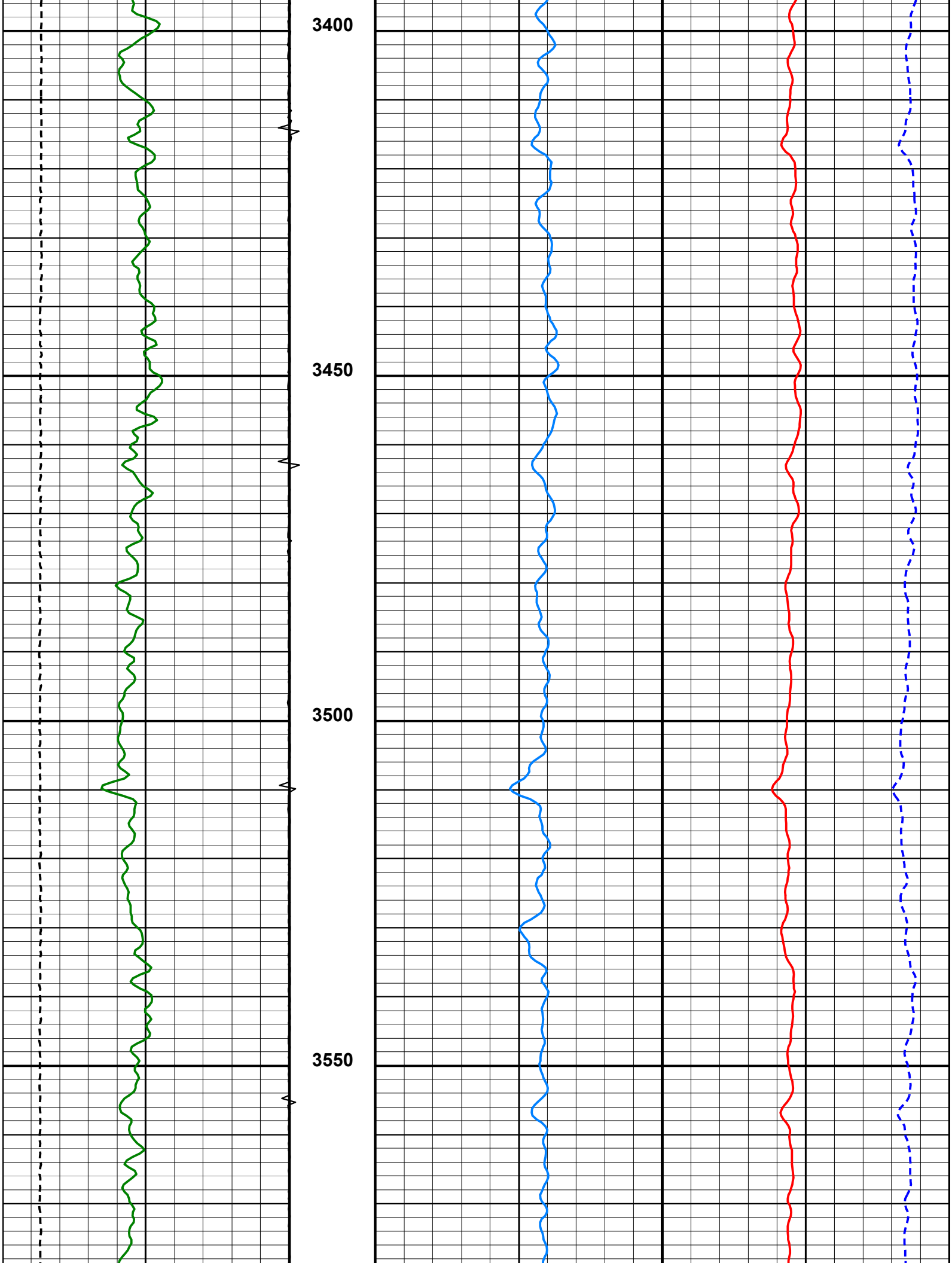
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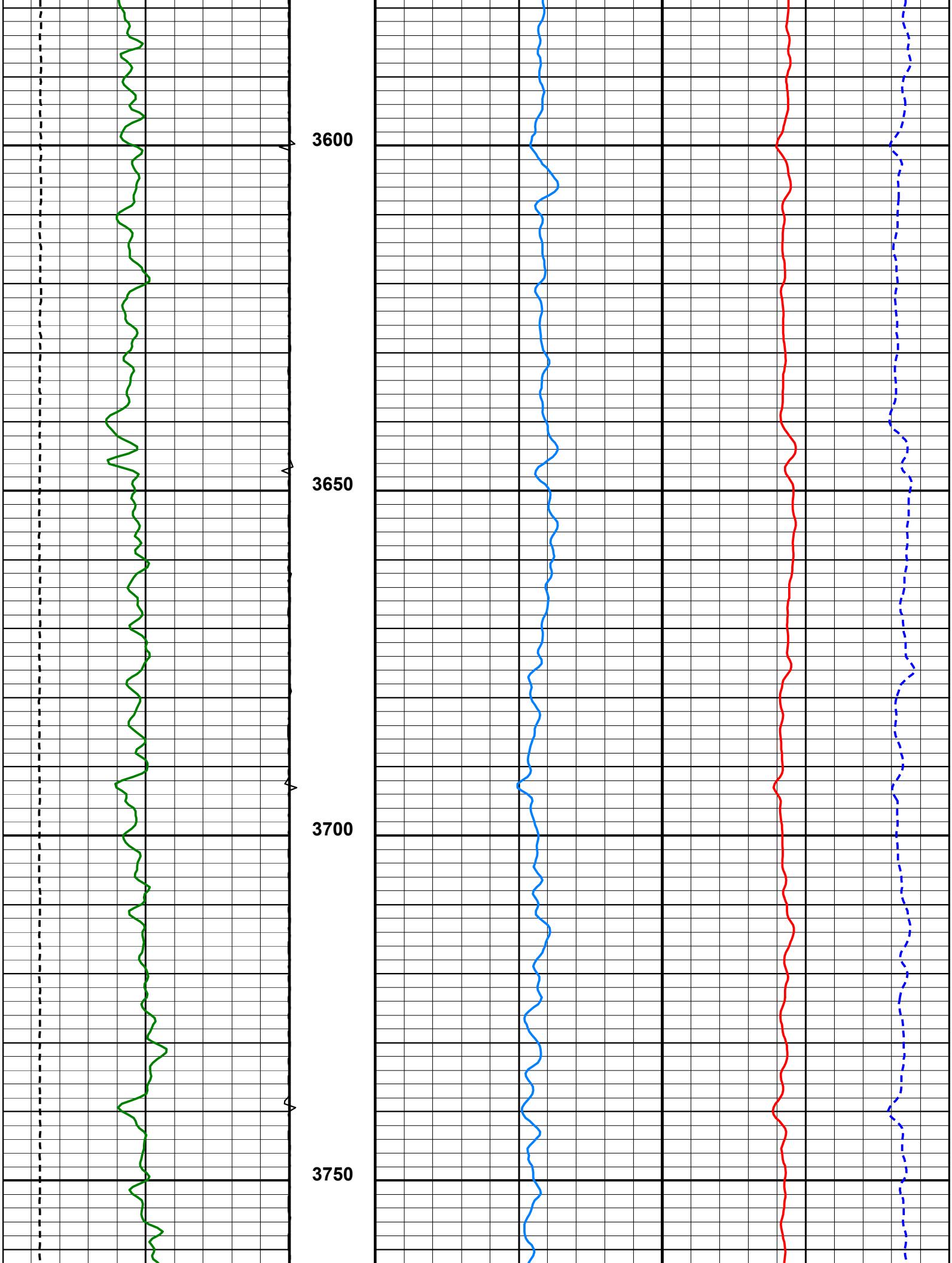
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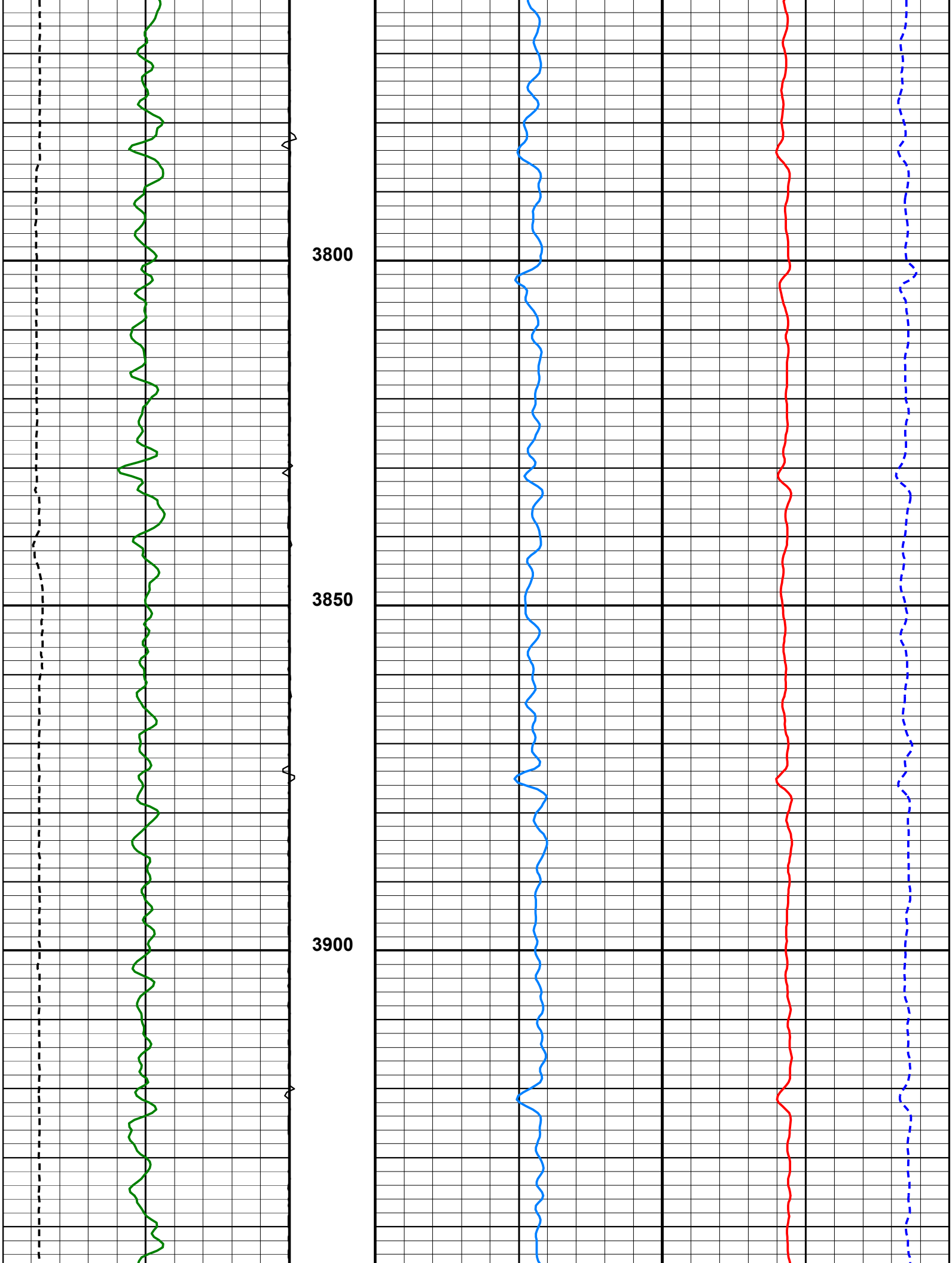
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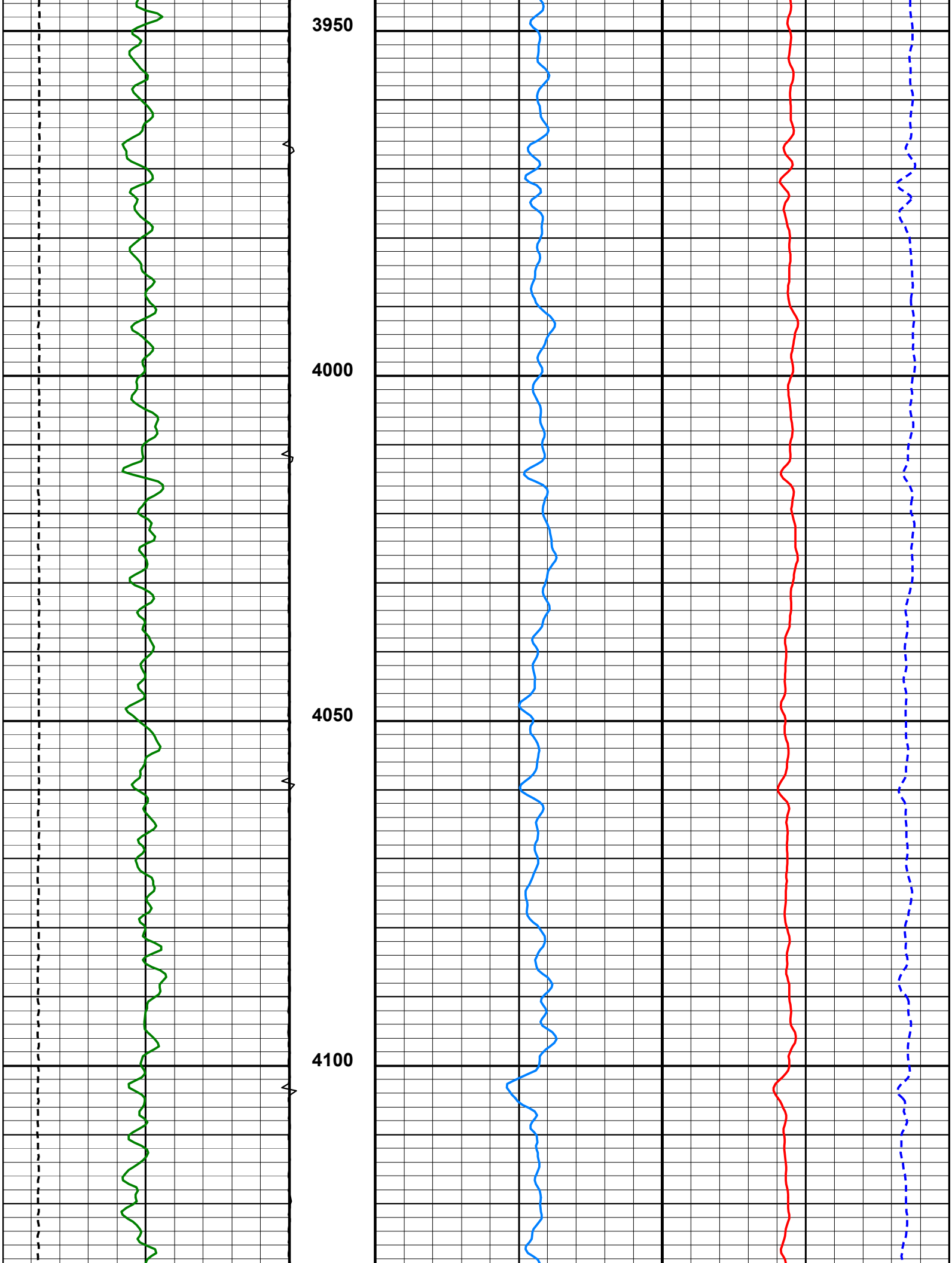
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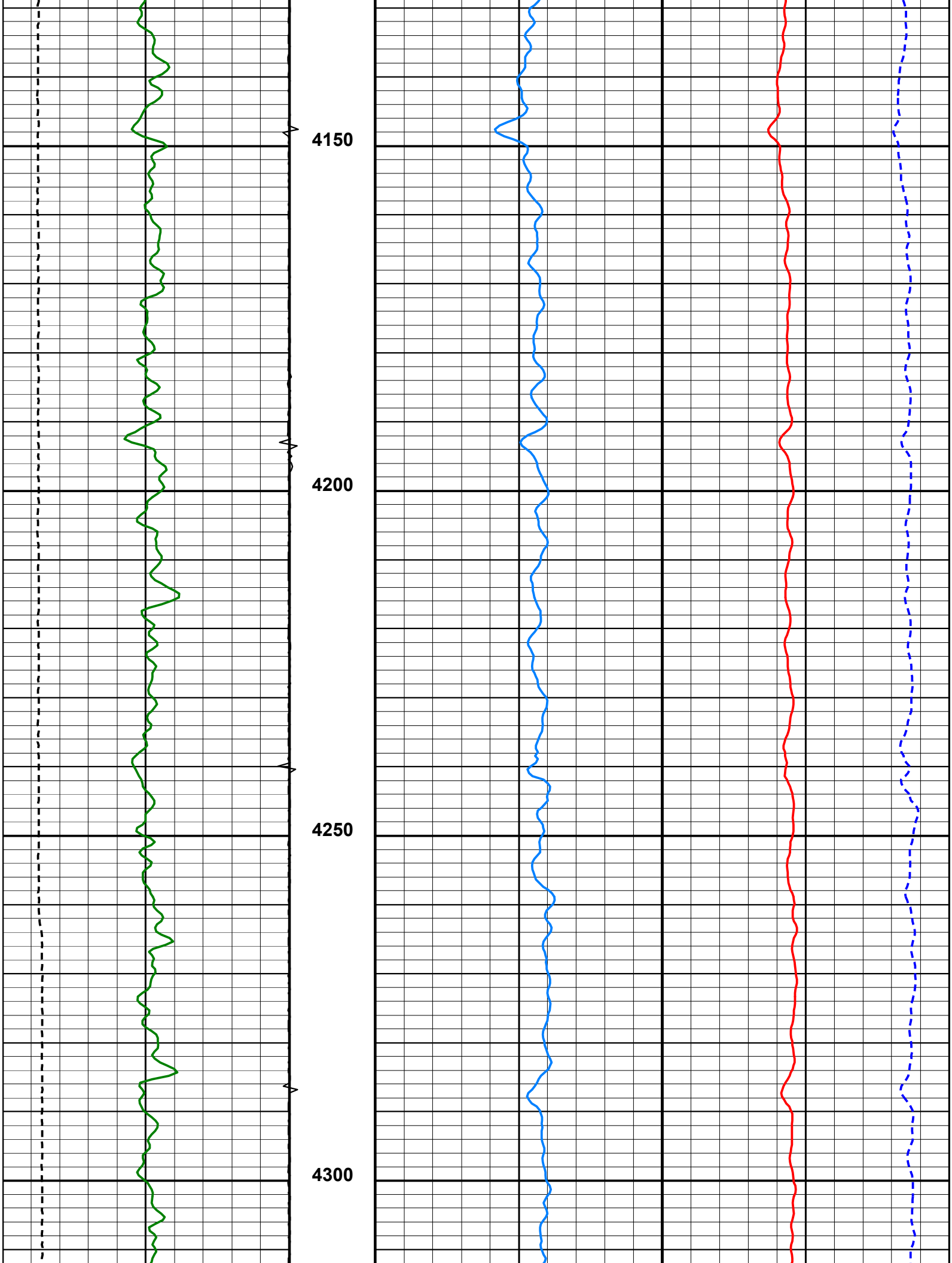
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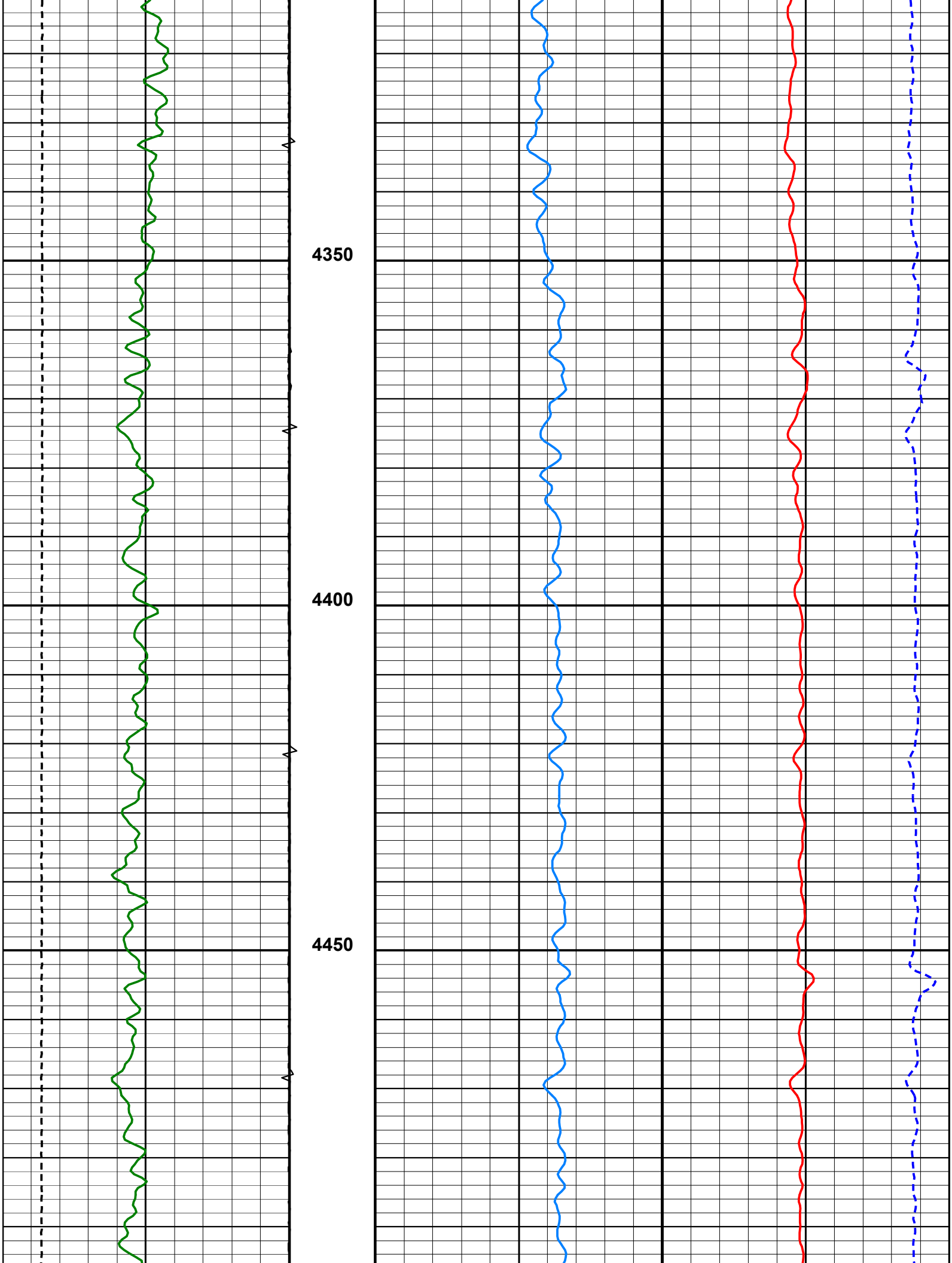
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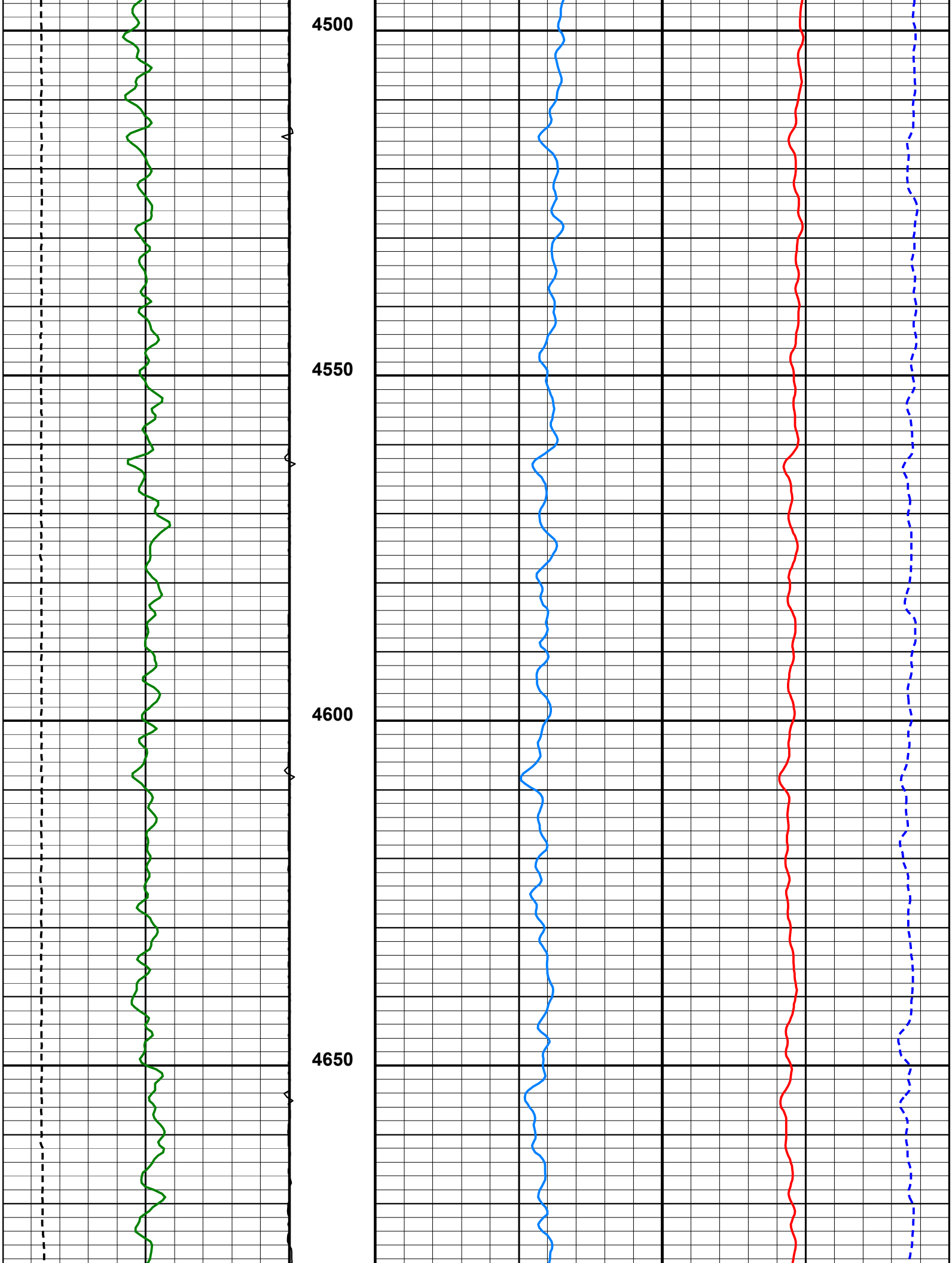
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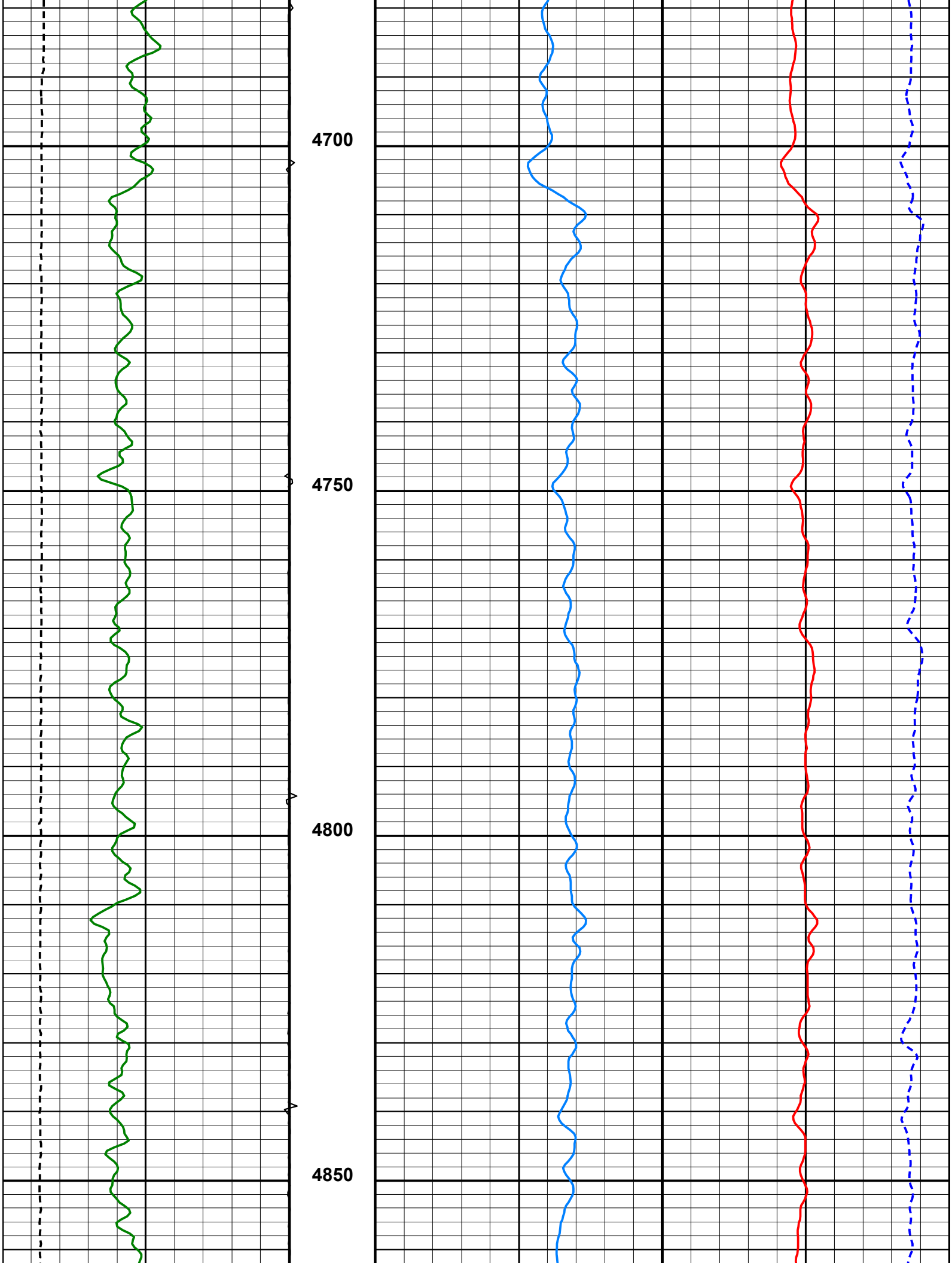
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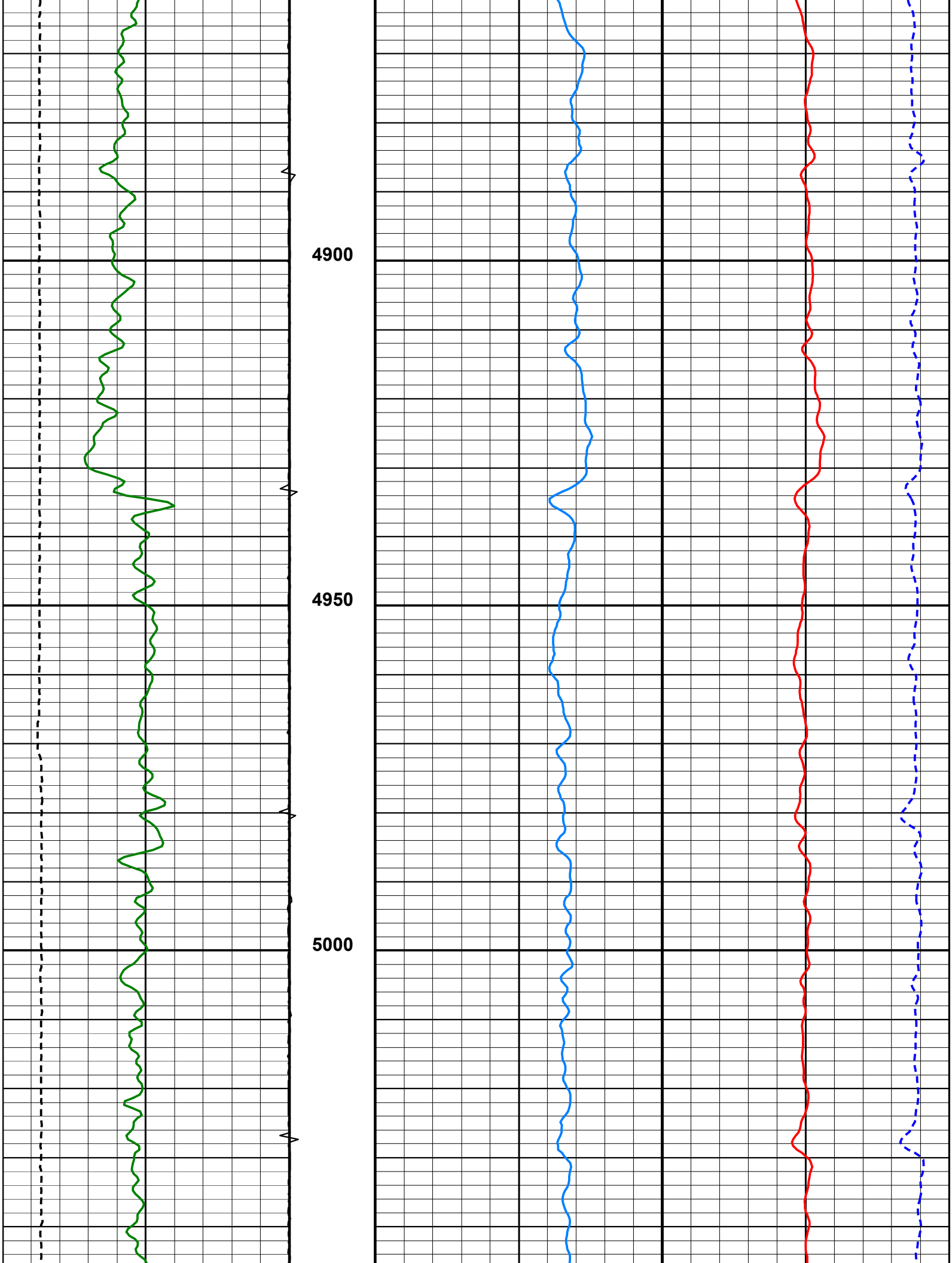
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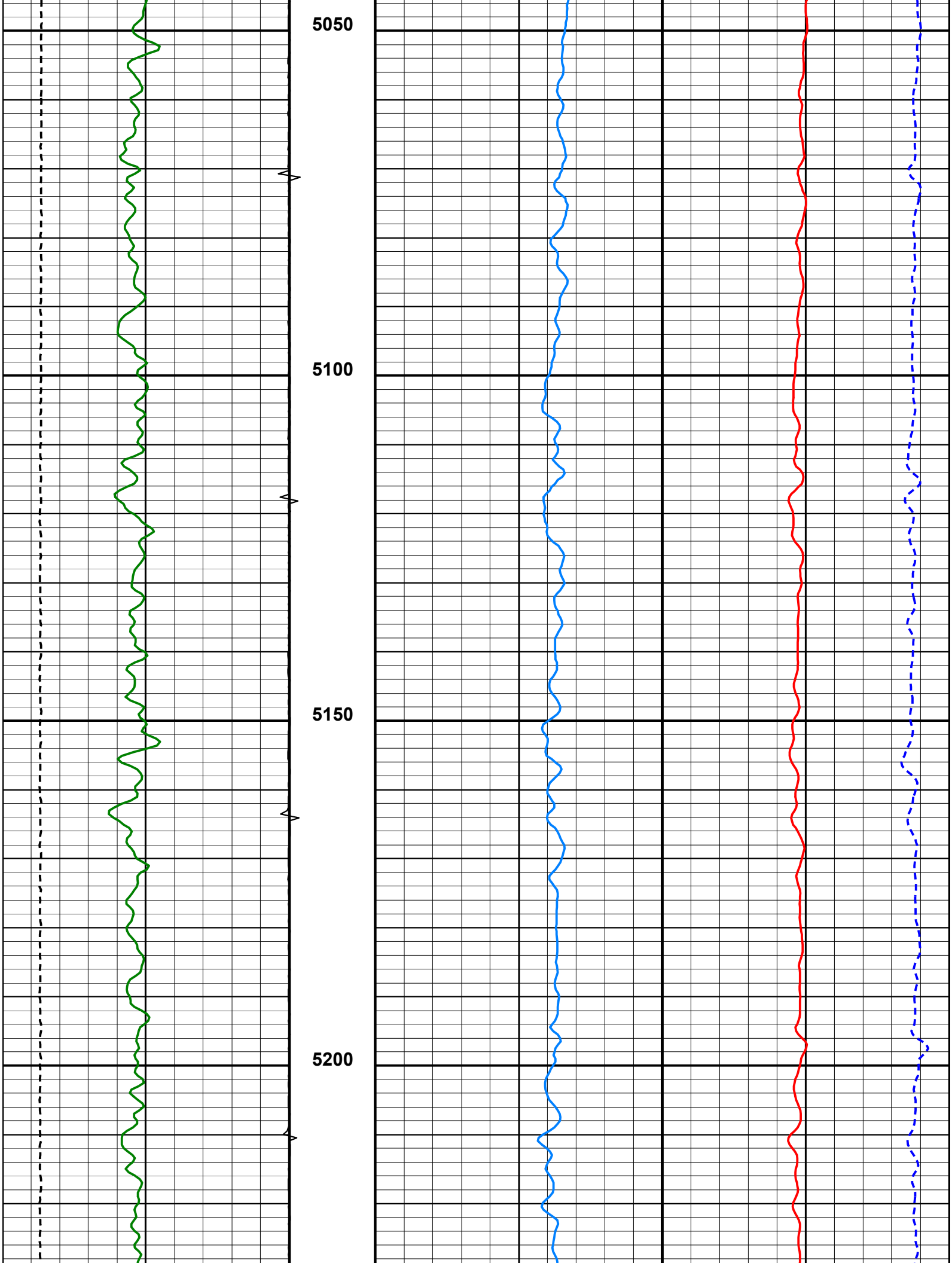
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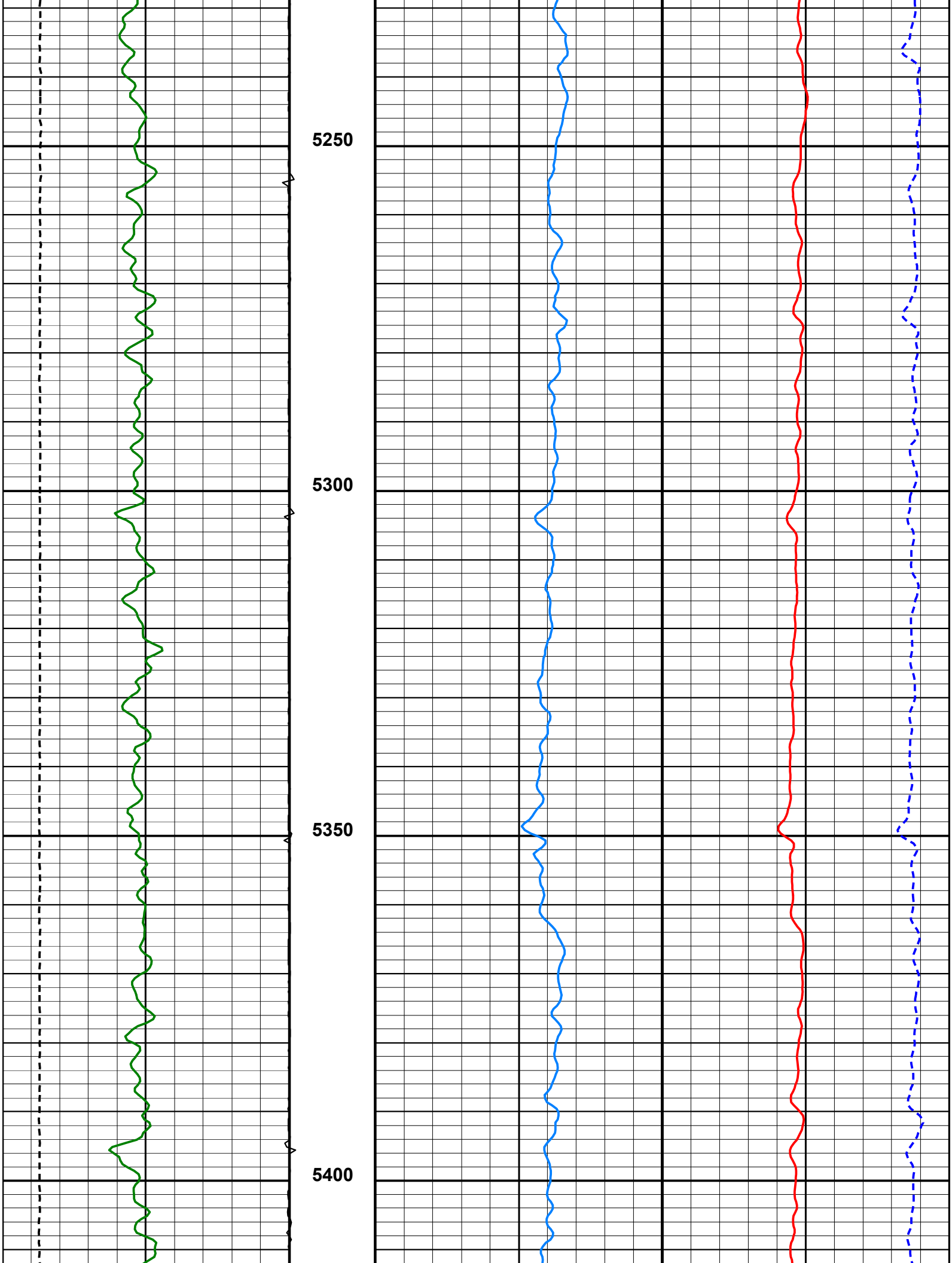
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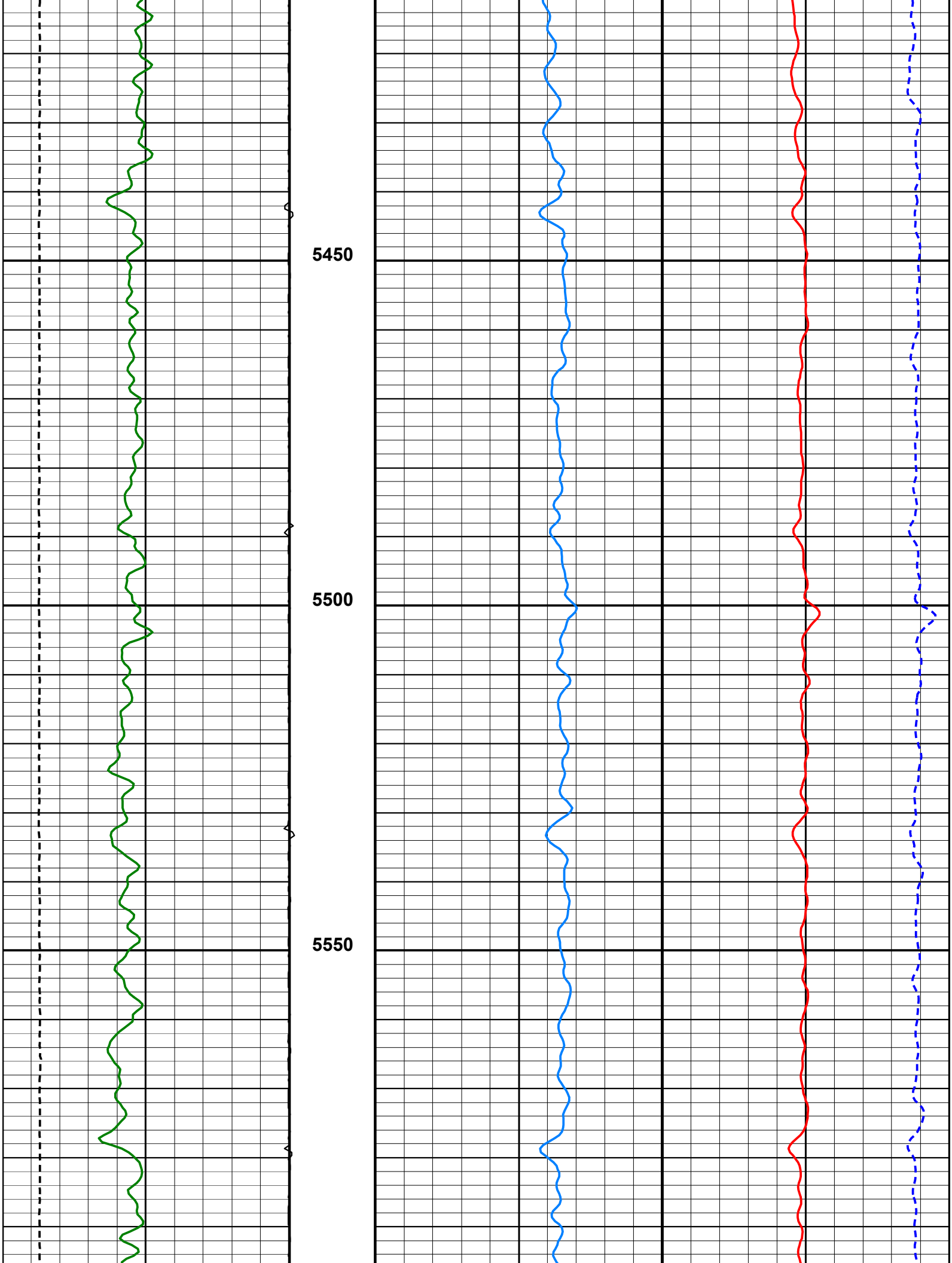
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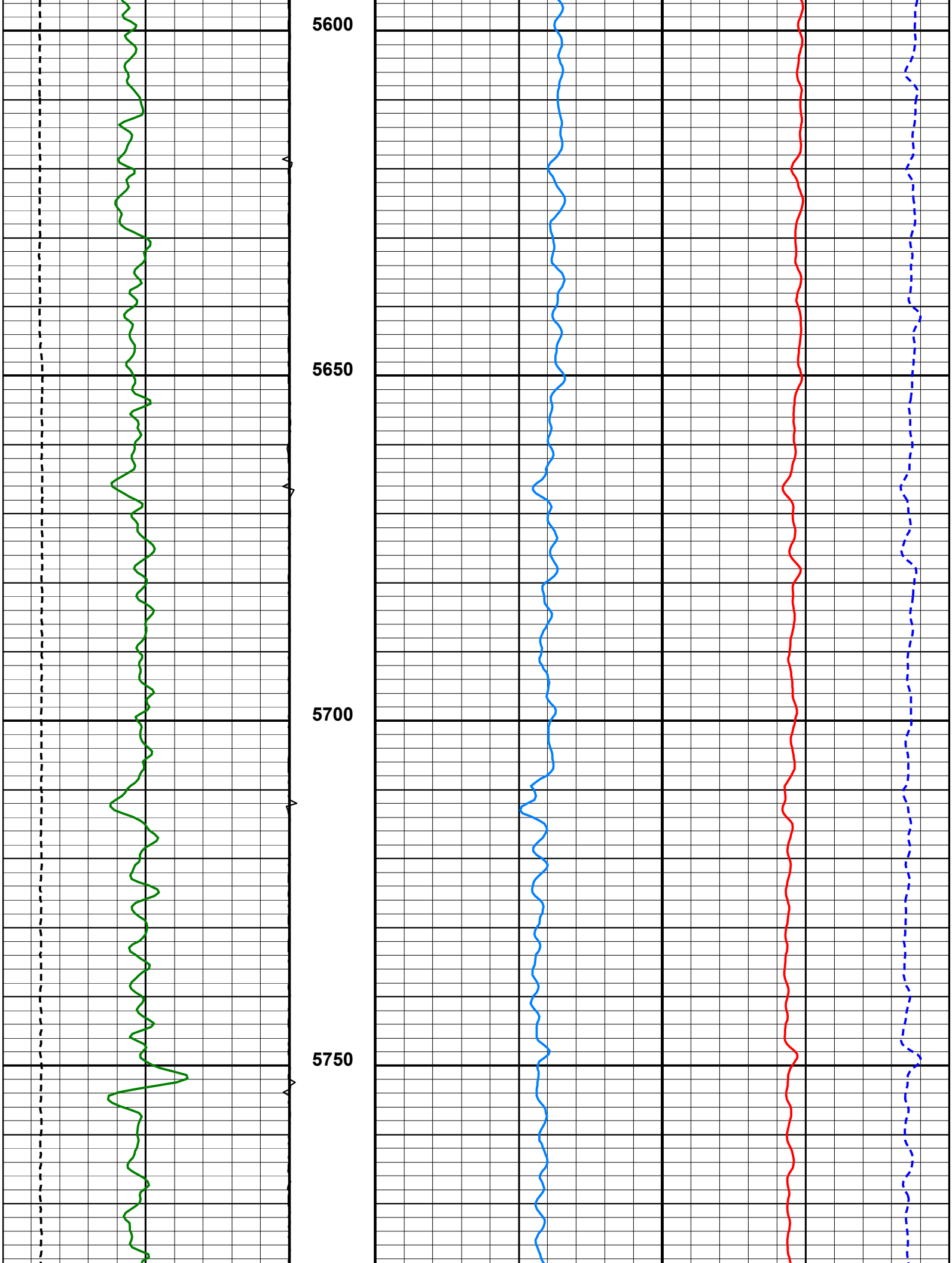
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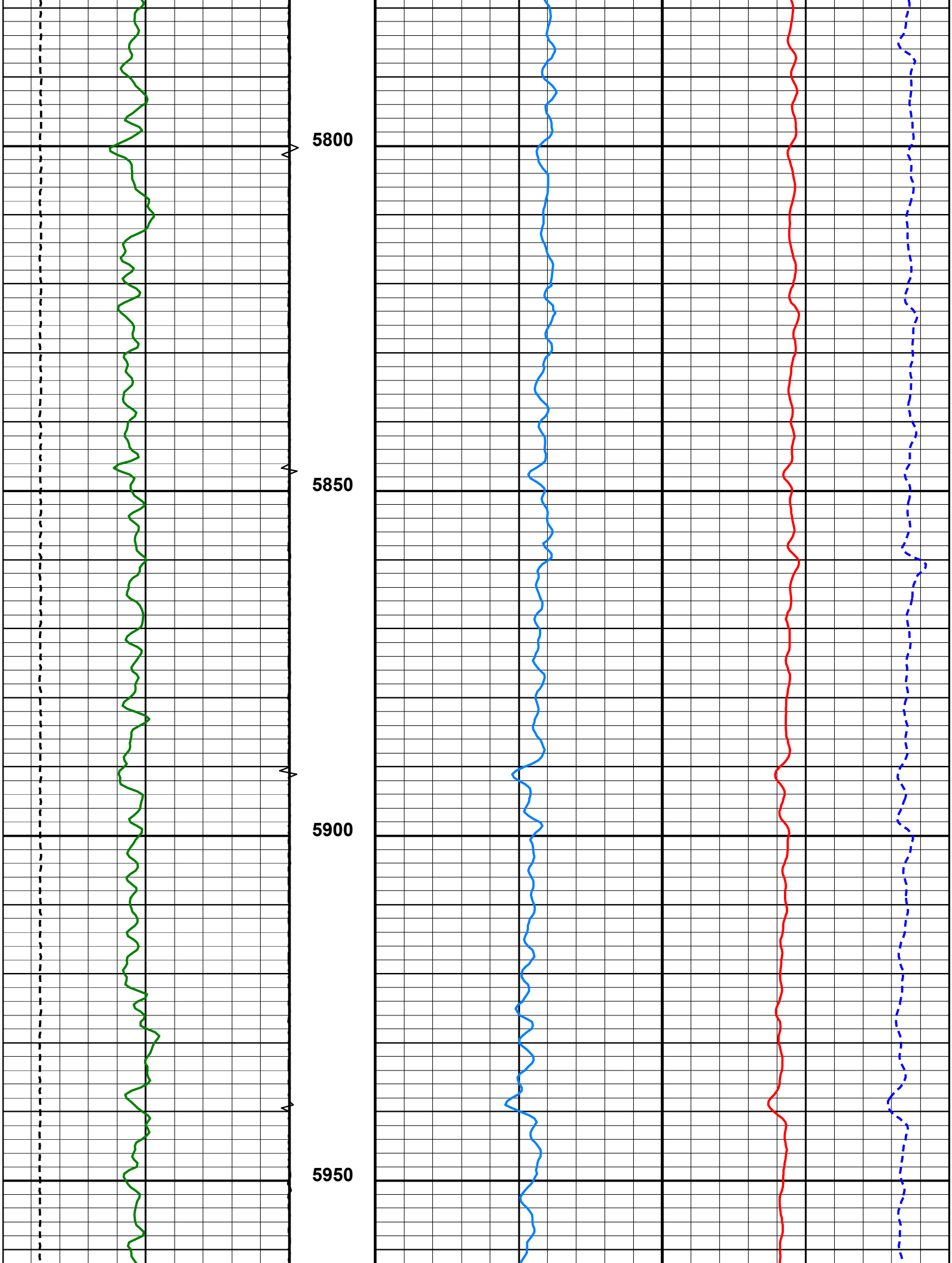
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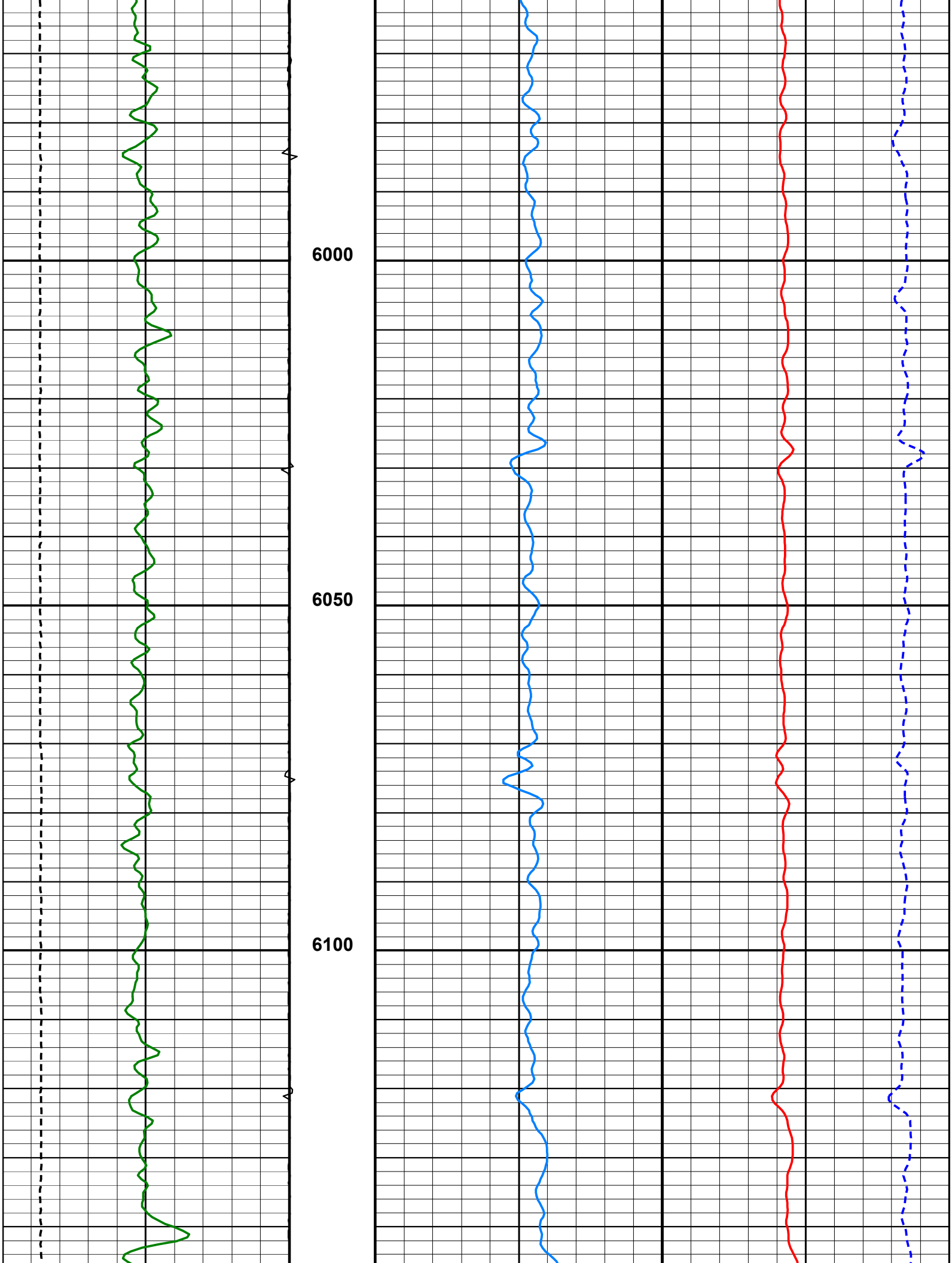
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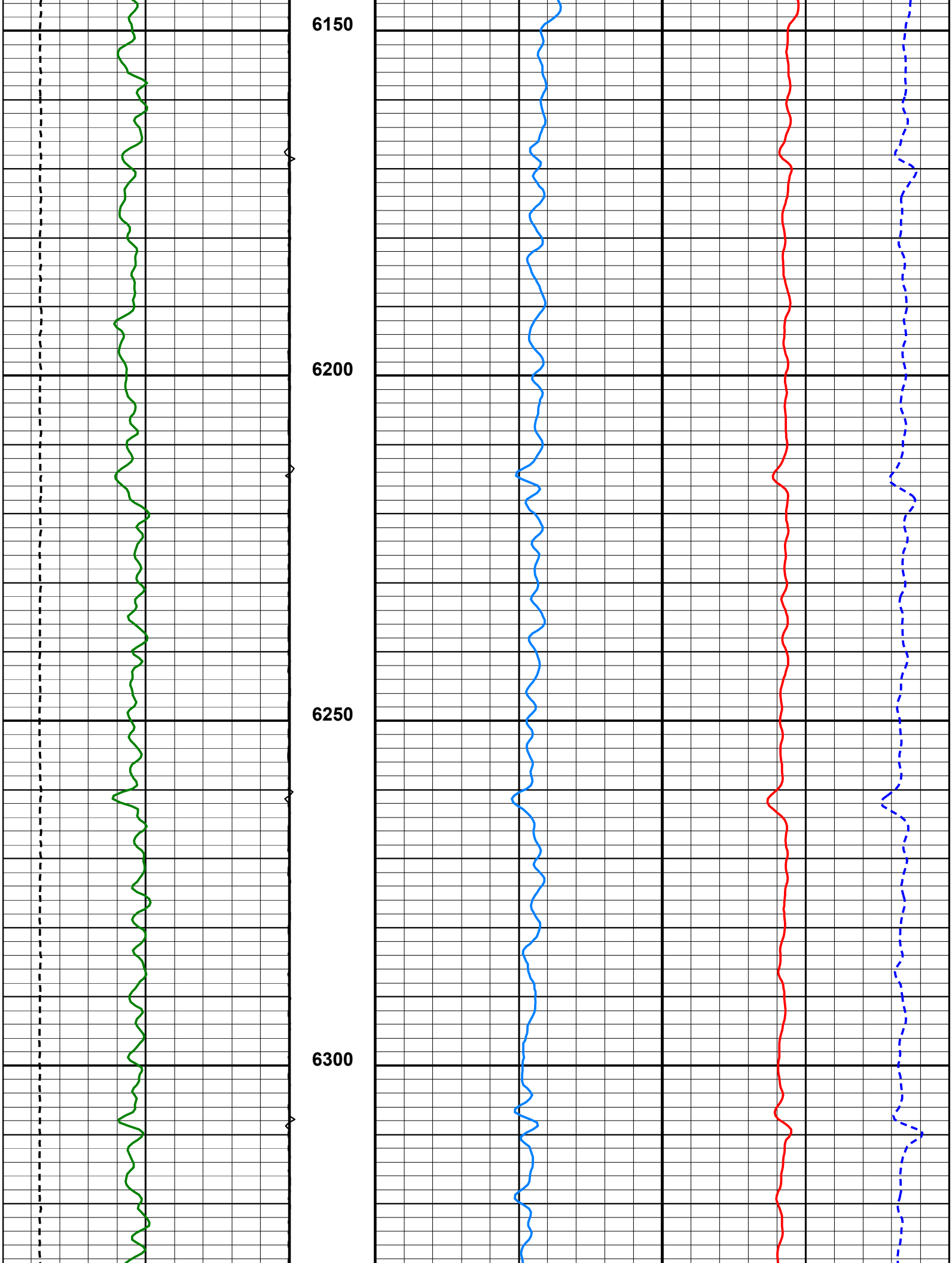
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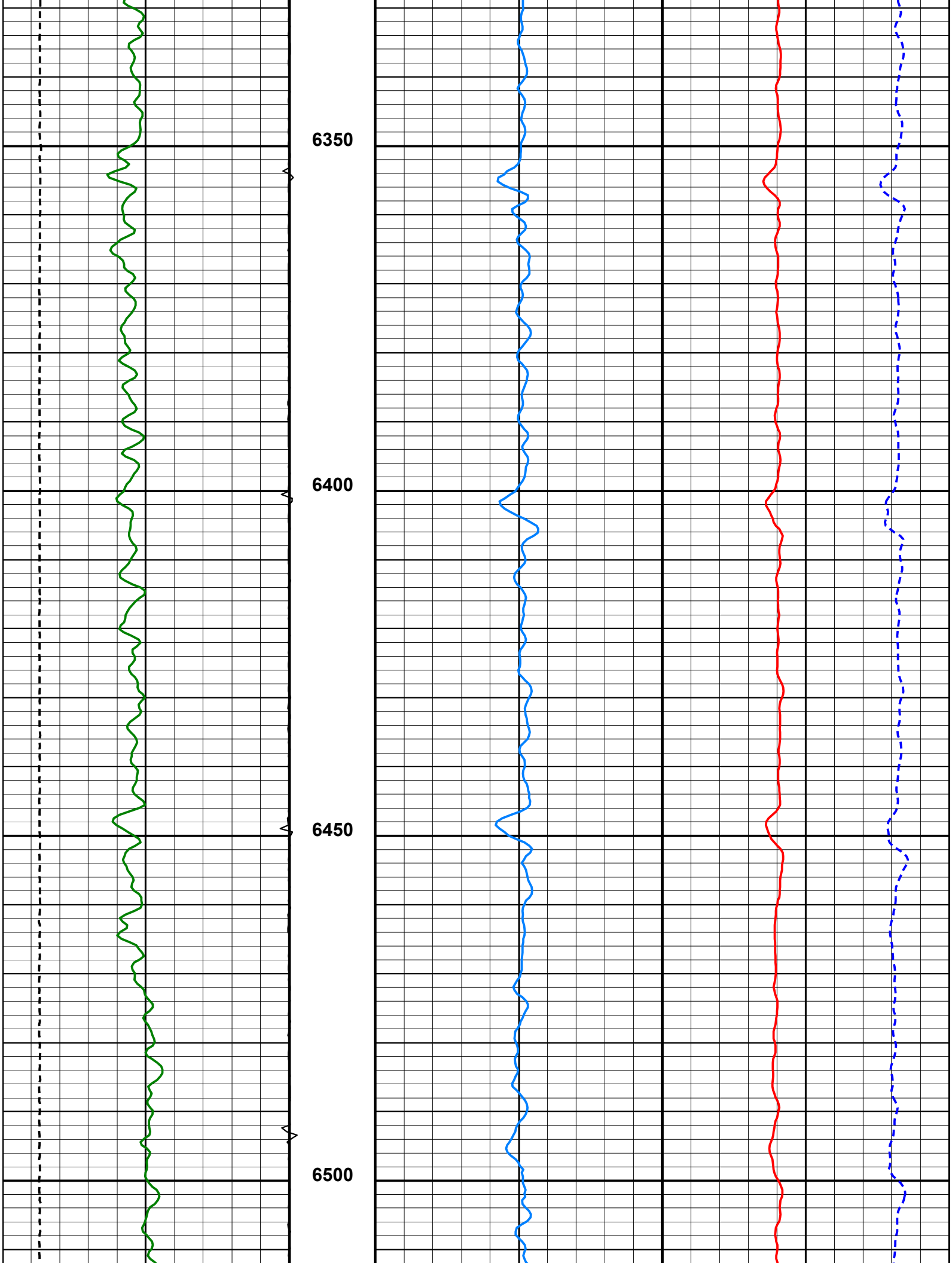
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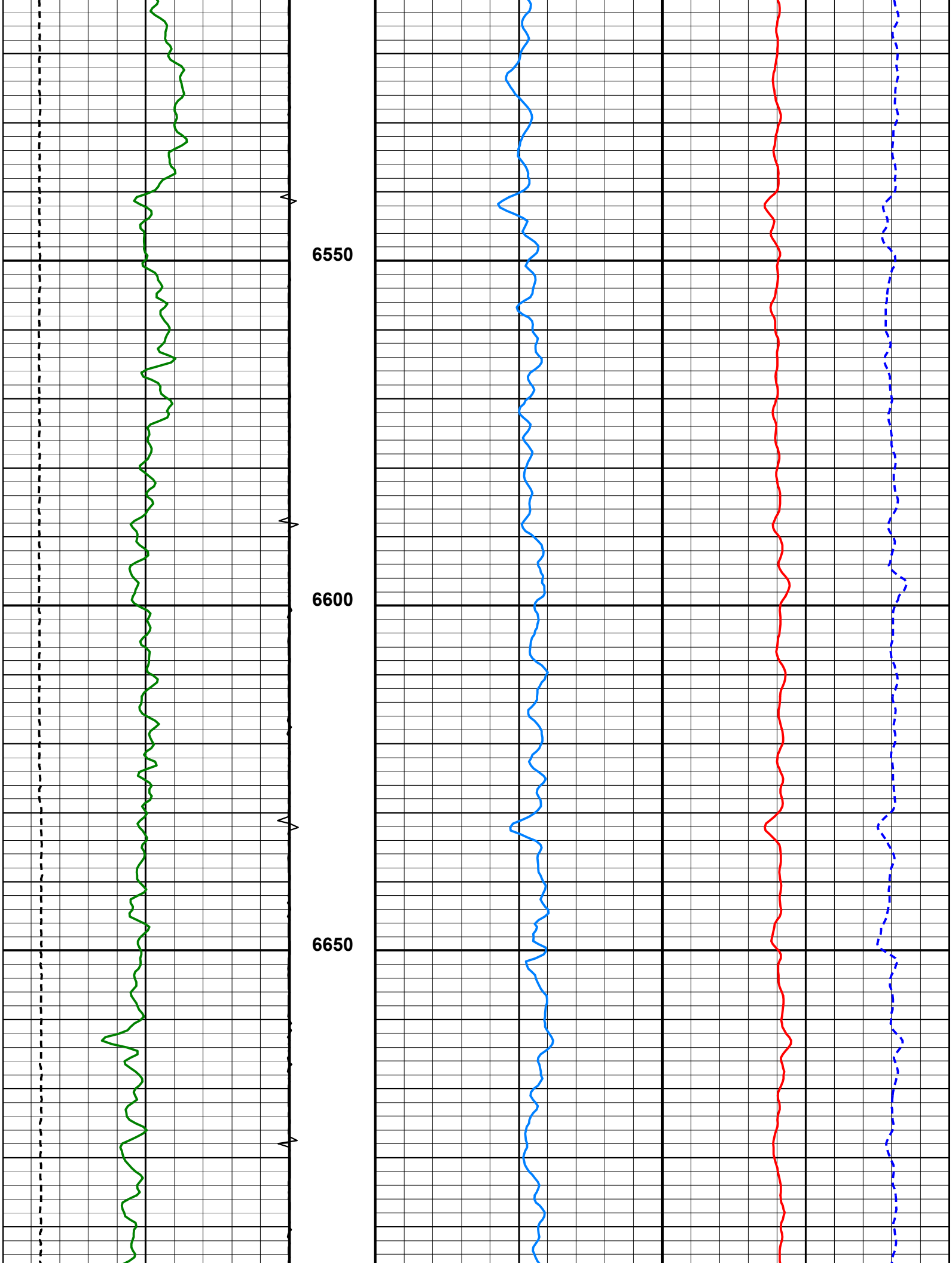
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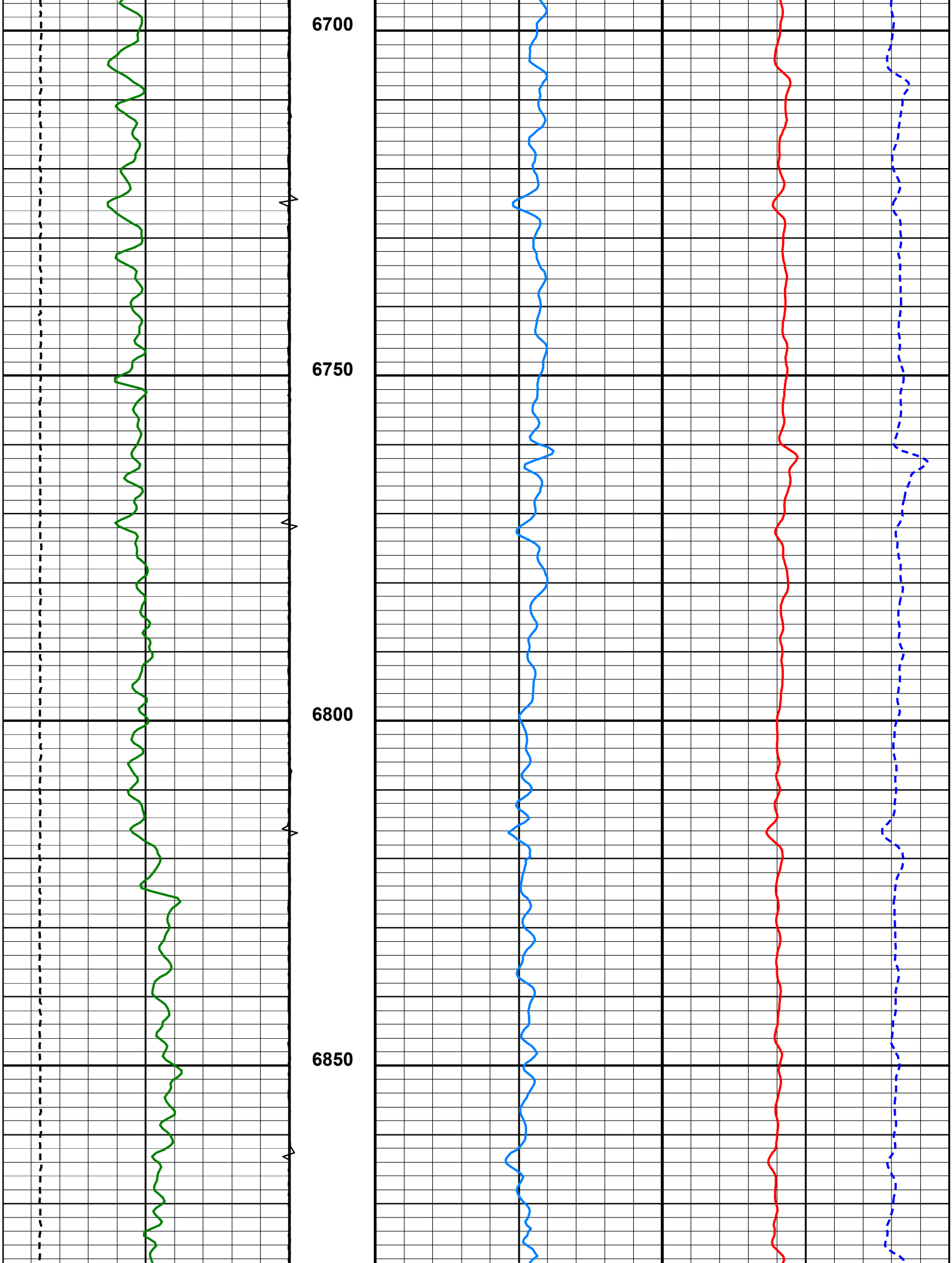
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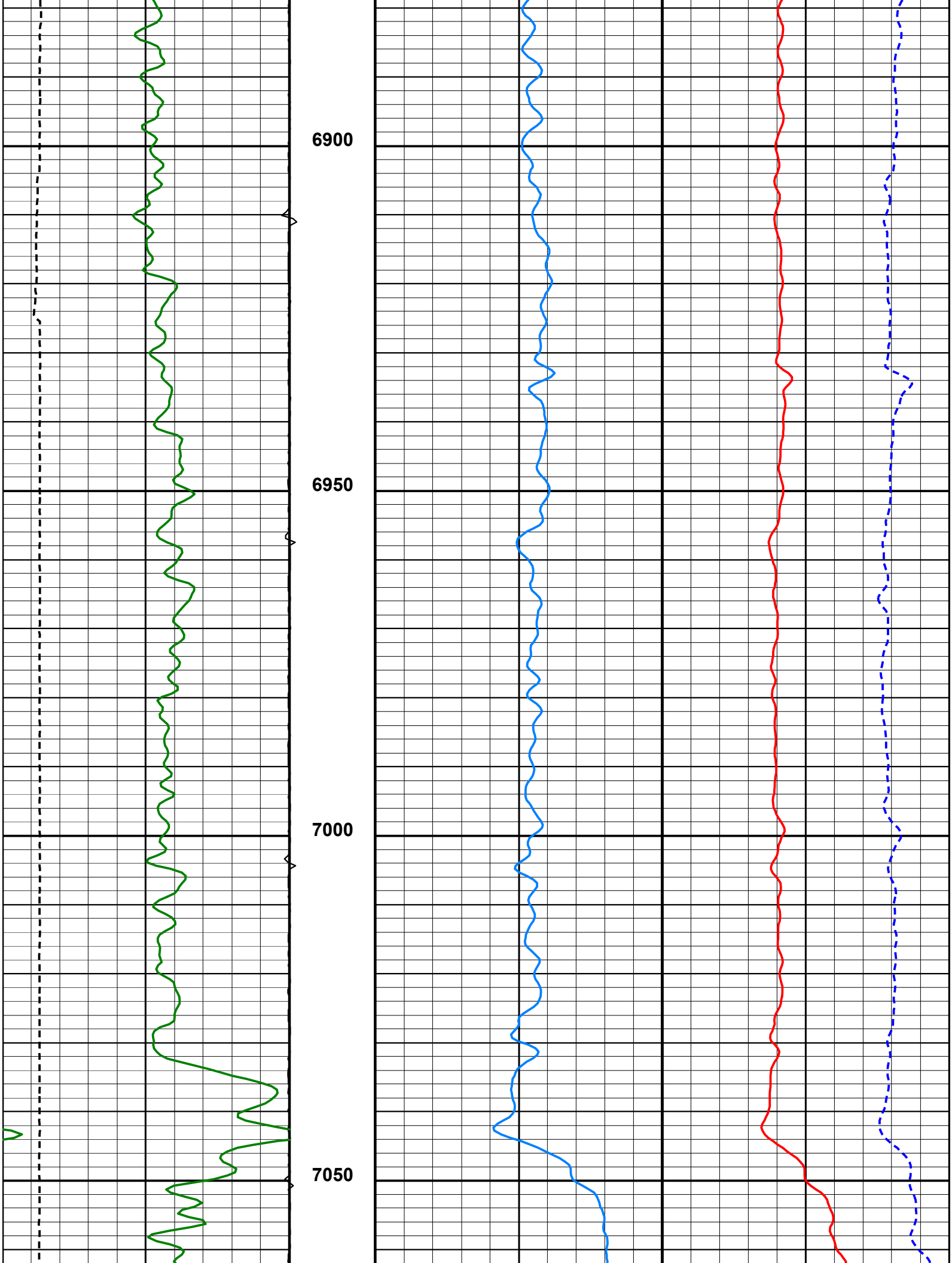
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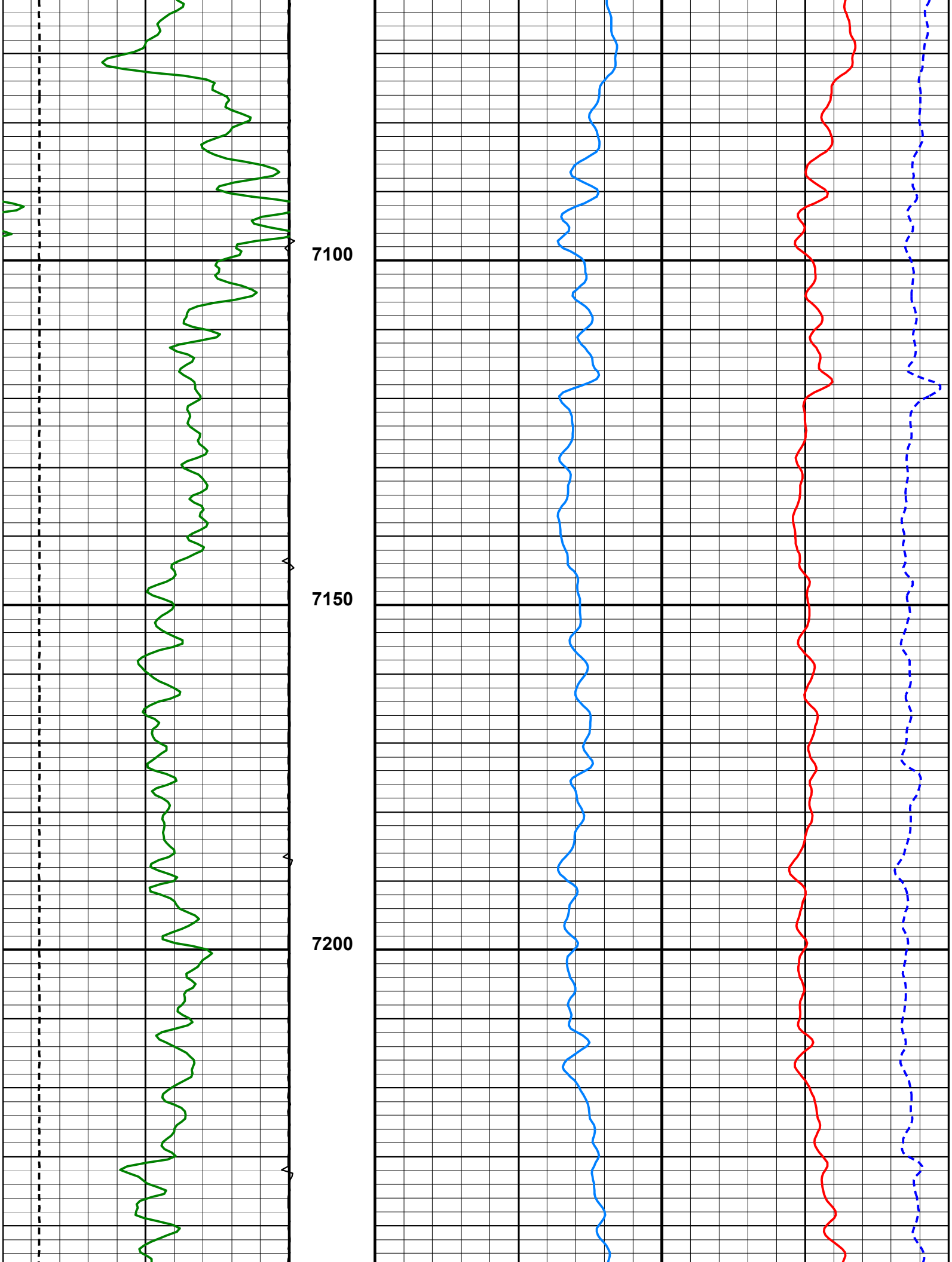
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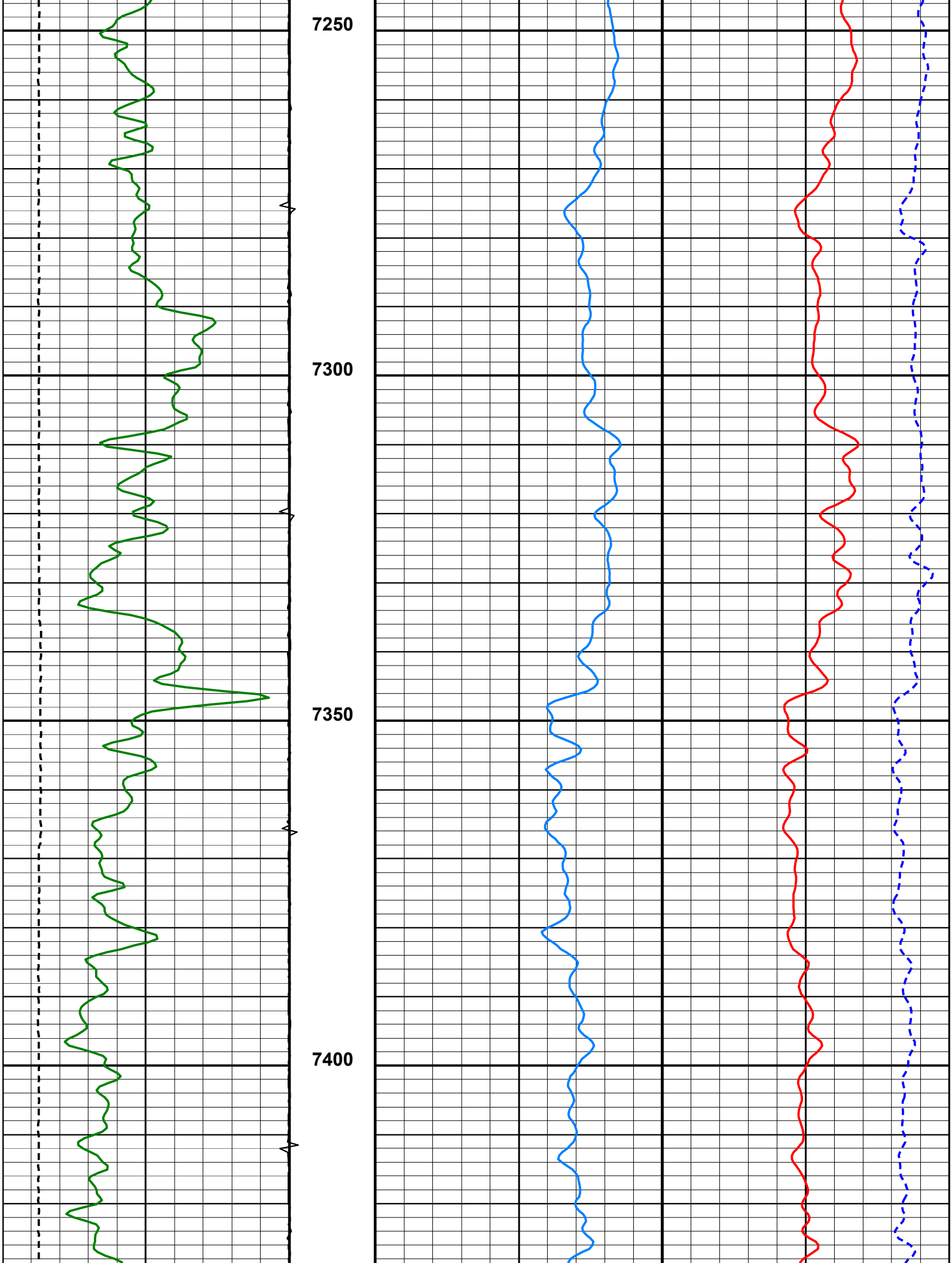
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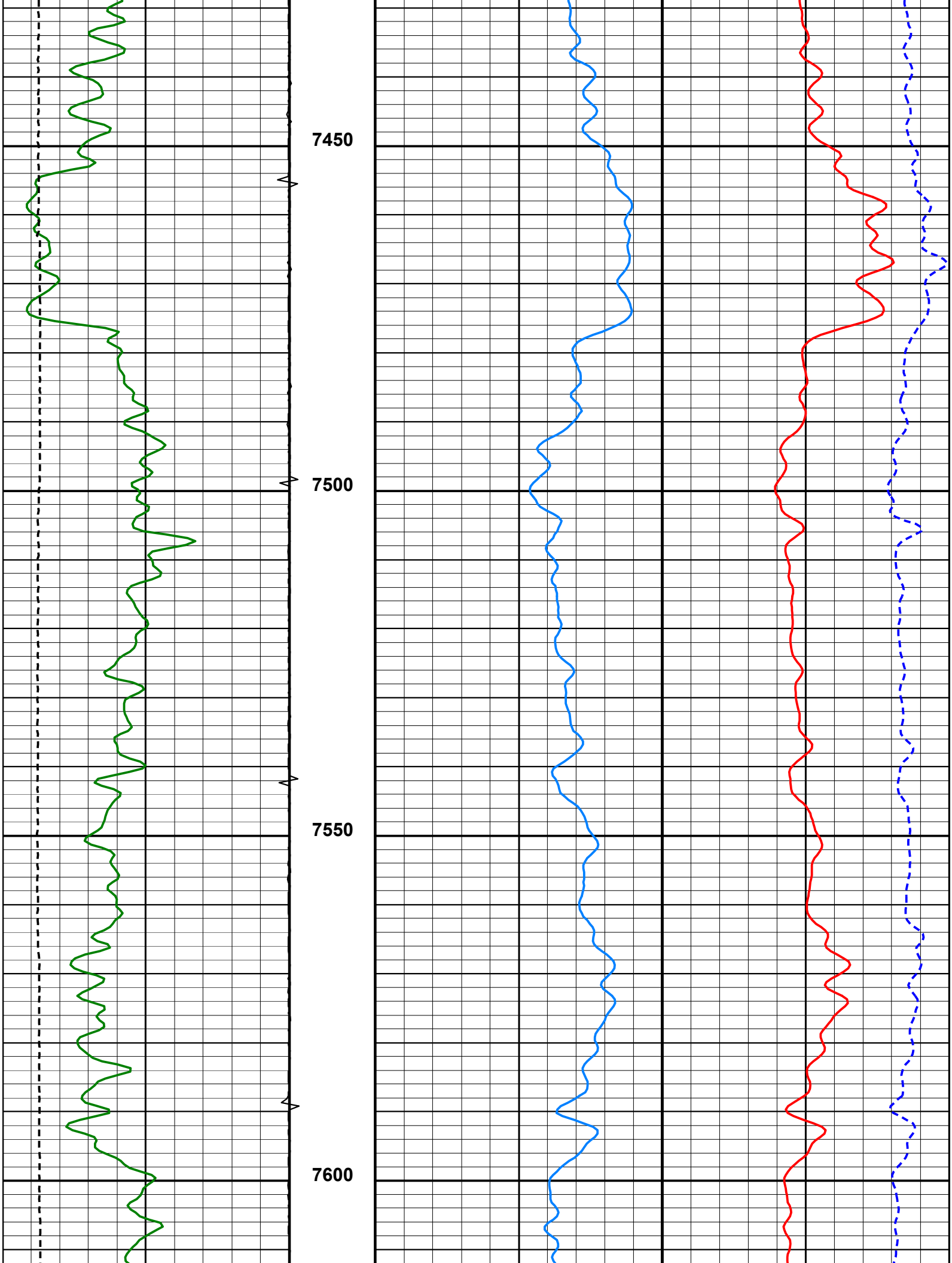
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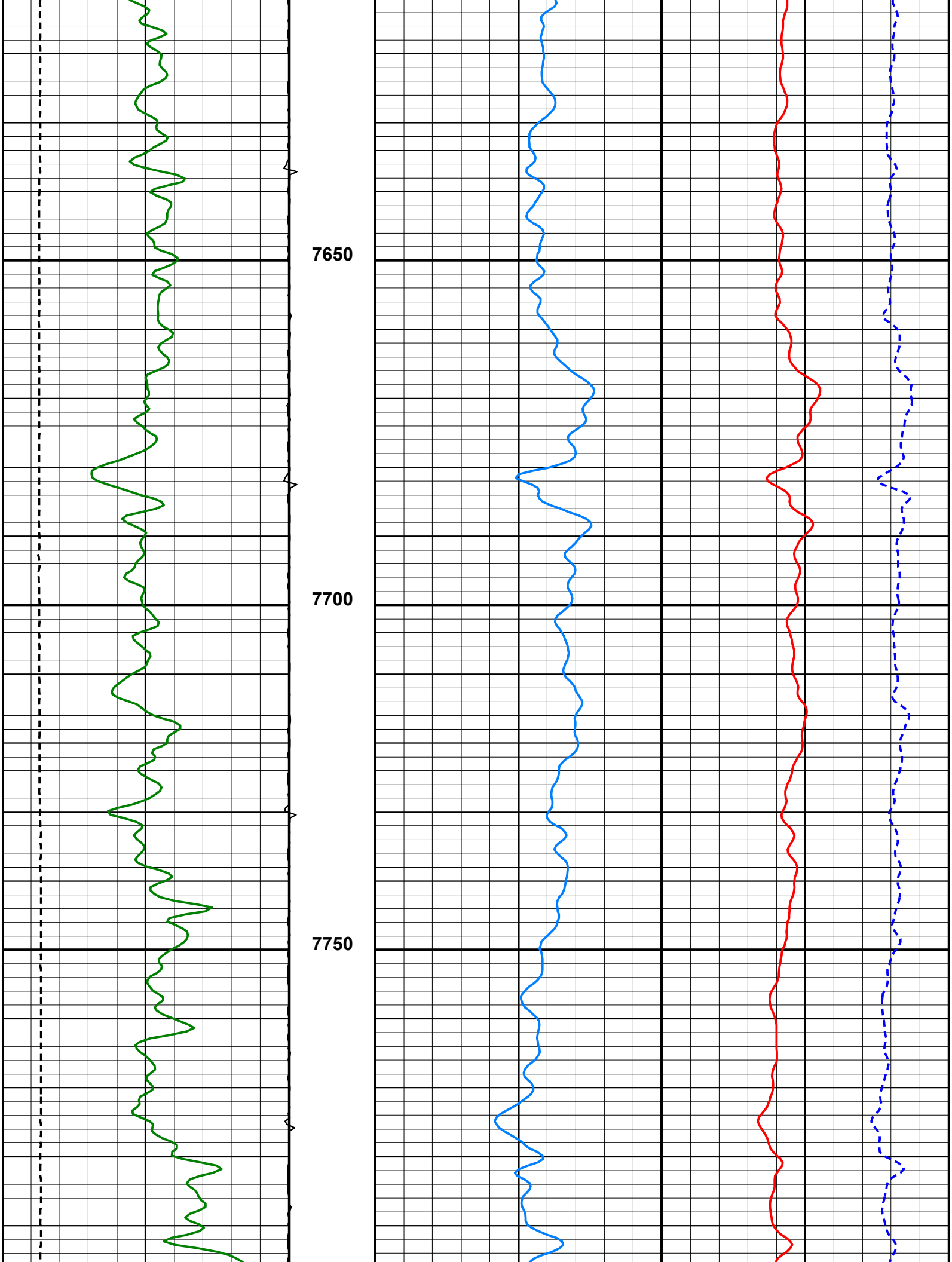
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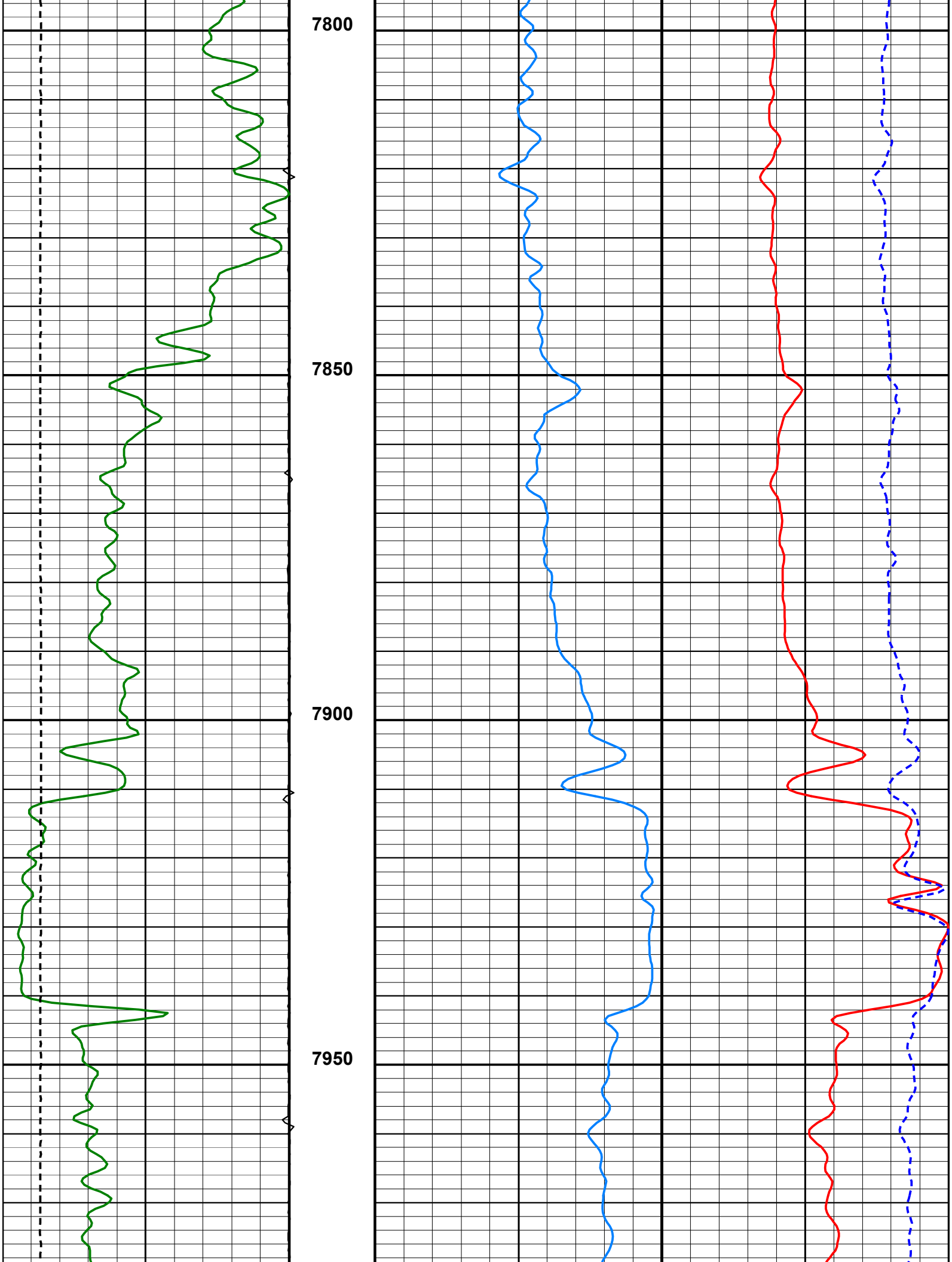
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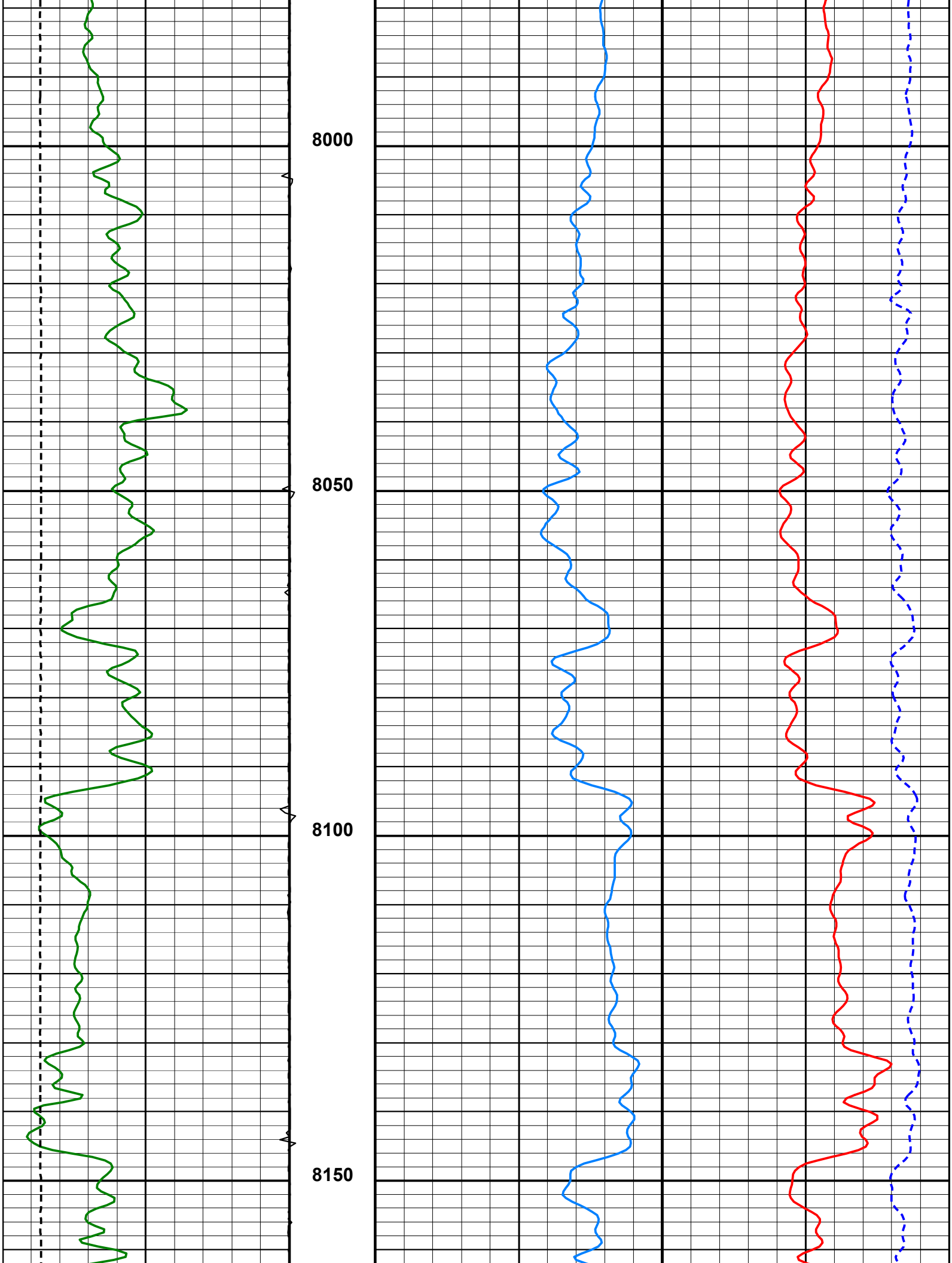
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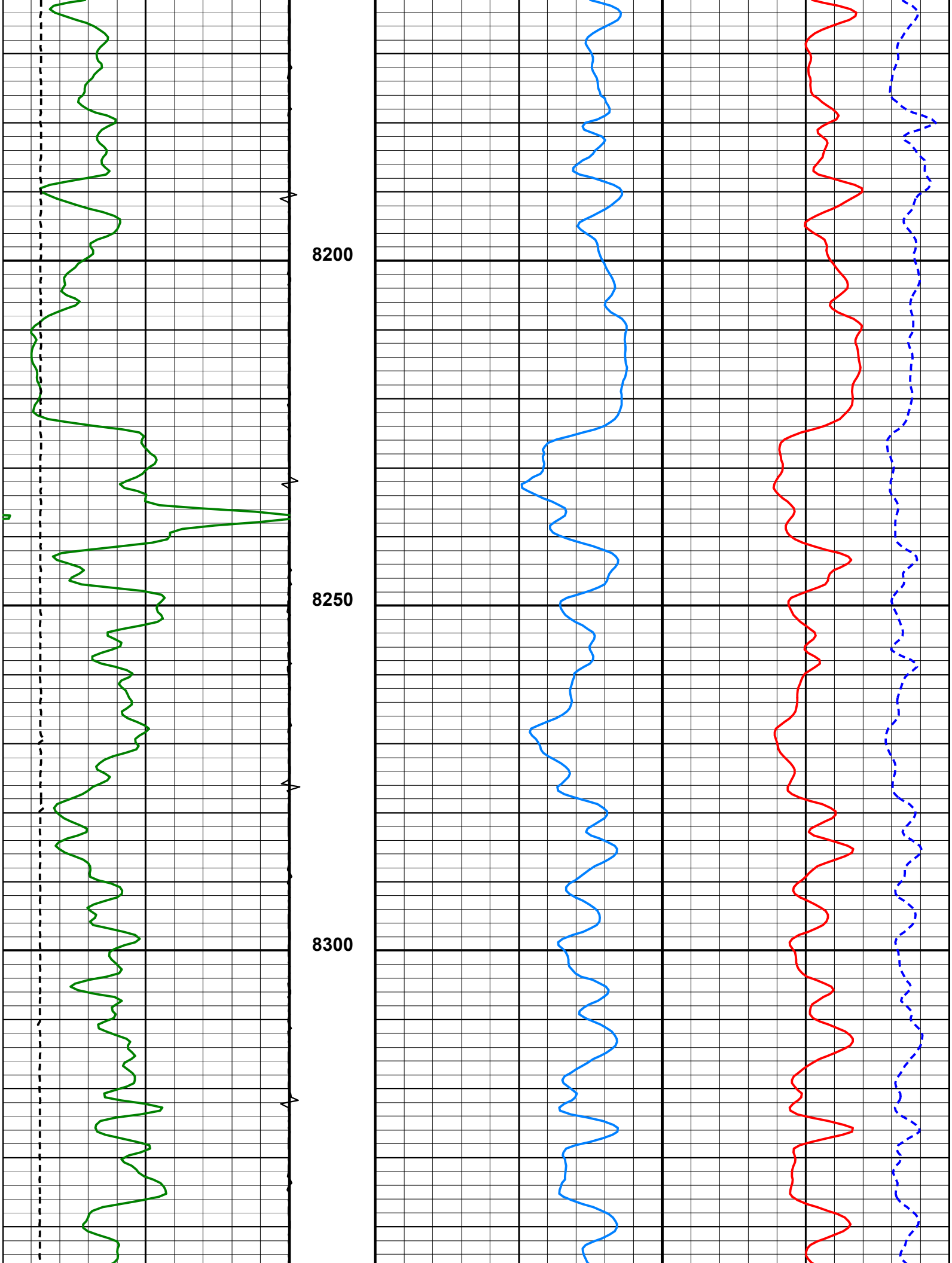
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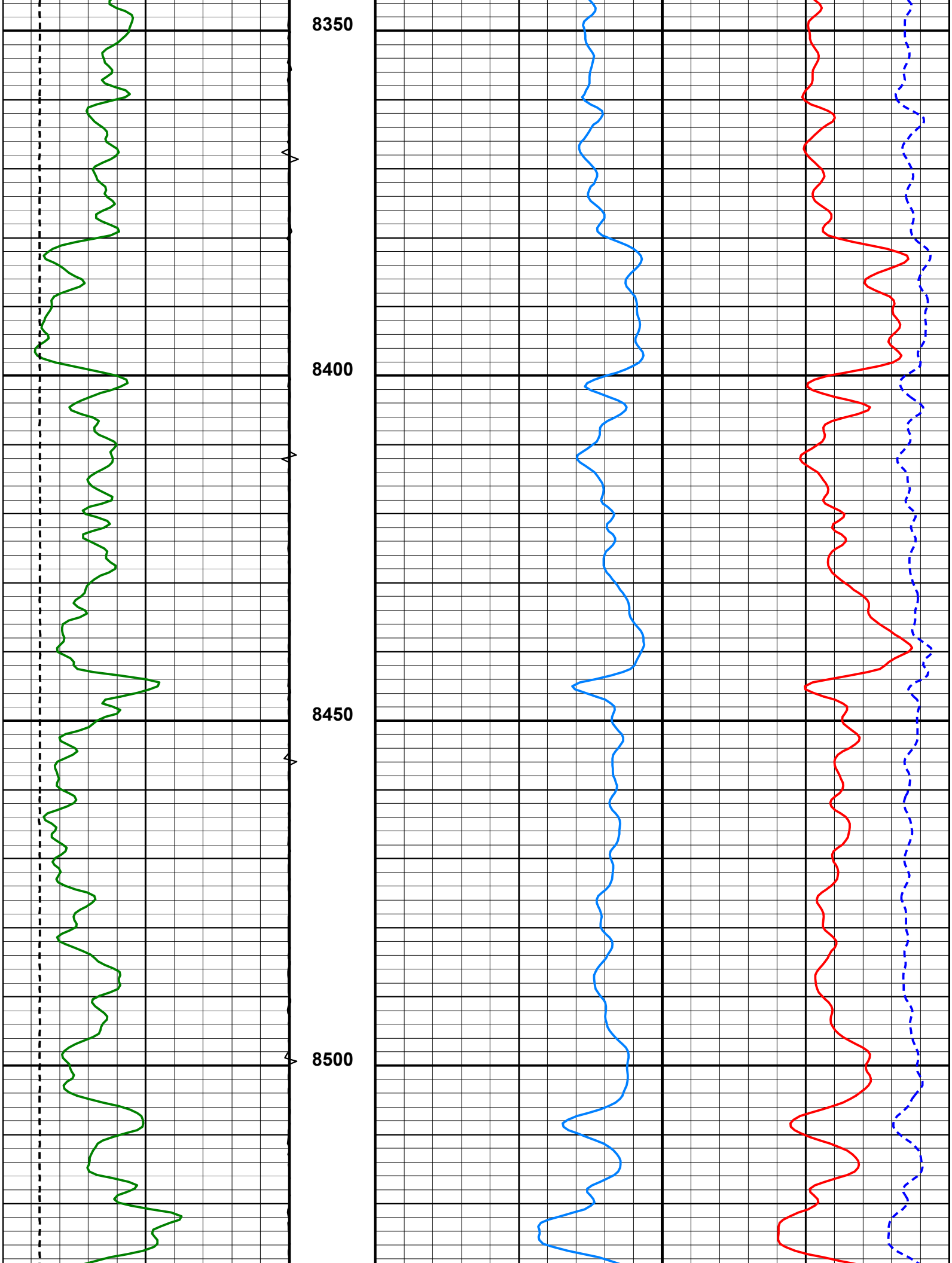
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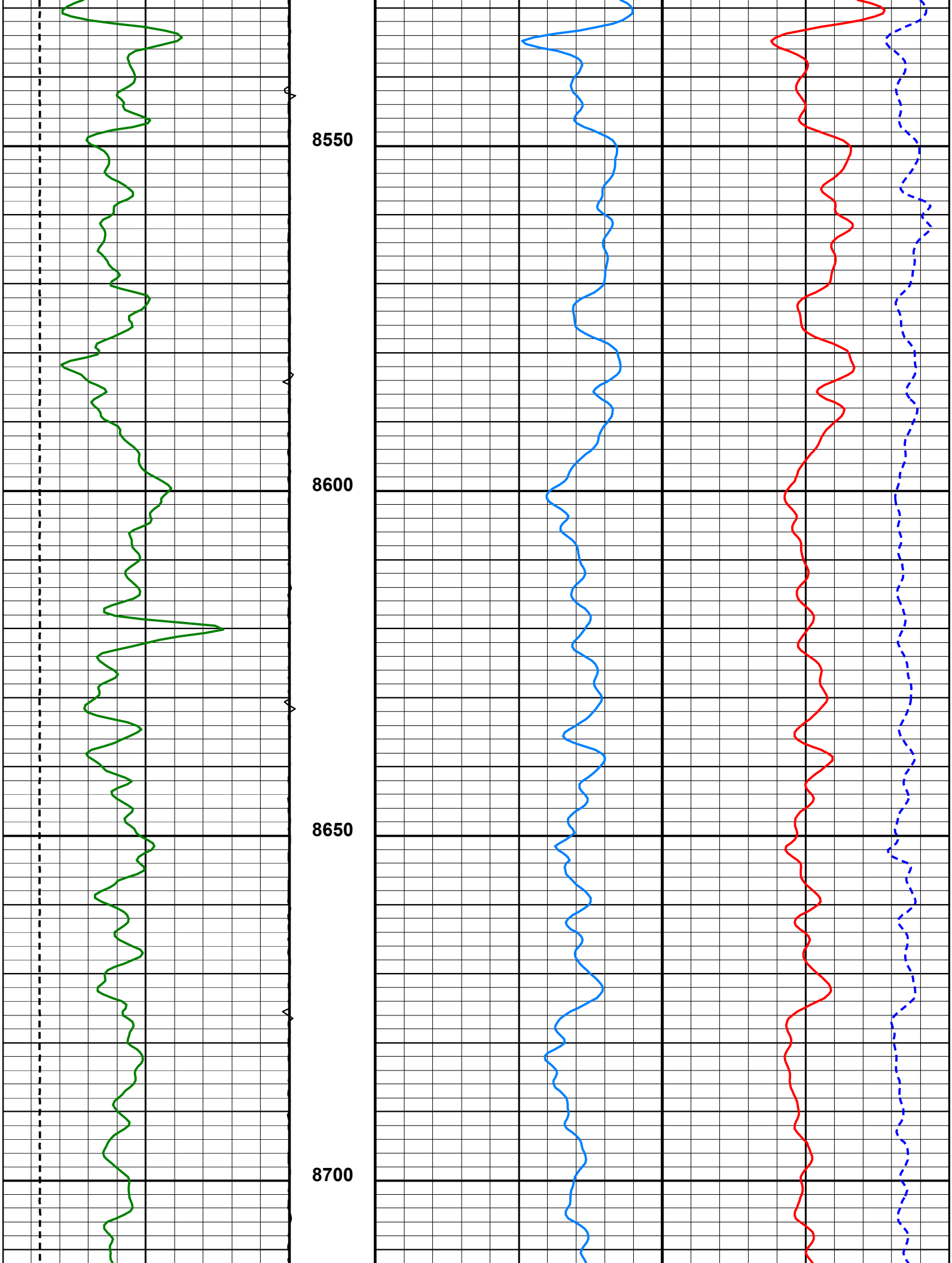
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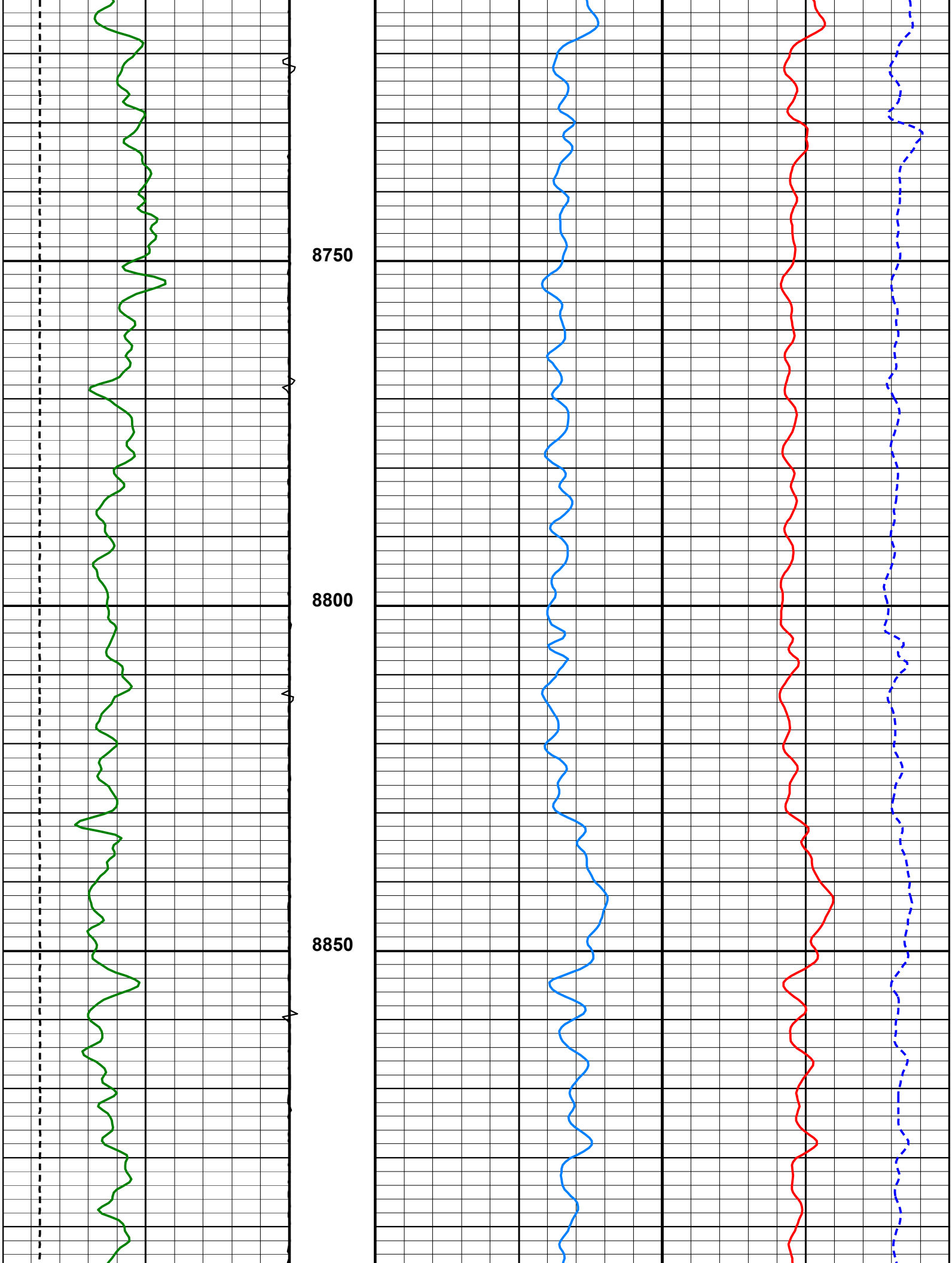
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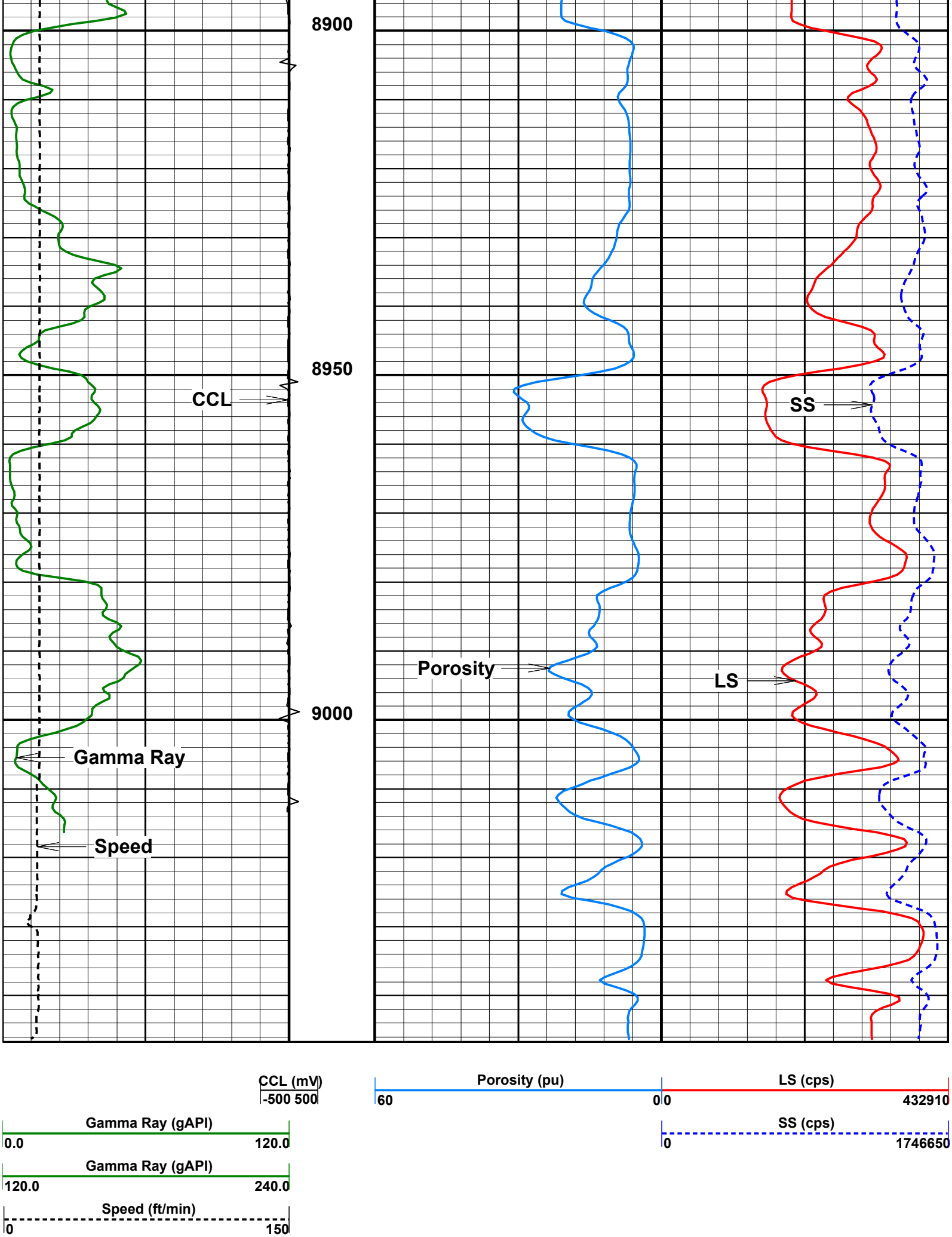

8900
8950
9000
CCL
Gamma Ray
Speed
Porosity
SS
LS
CCL (mV)
-500 500
Porosity (pu)
60
0
LS (cps)
0
432910
Gamma Ray (gAPI)
0.0
120.0
SS (cps)
0
1746650
Gamma Ray (gAPI)
120.0
240.0
Speed (ft/min)
0
150
42.56 ft

Telemetry
- Identifier :0929A
- Asset Number :047
- Length :4.810 ft
- Diameter :1.7 inch
- Weight :17.6 lbs
- Measure Point :0.741 ft : Gamma
- Measure Point :3.976 ft : CCL

Knuckle Joint
- Identifier :0814
- Asset Number :None
- Length :2.854 ft
- Diameter :1.7 inch
- Weight :16.5 lbs

Inline Centralizer
- Identifier :0595t
- Asset Number :None
- Length :2.887 ft
- Diameter :2.7 inch
- Weight :11.0 lbs

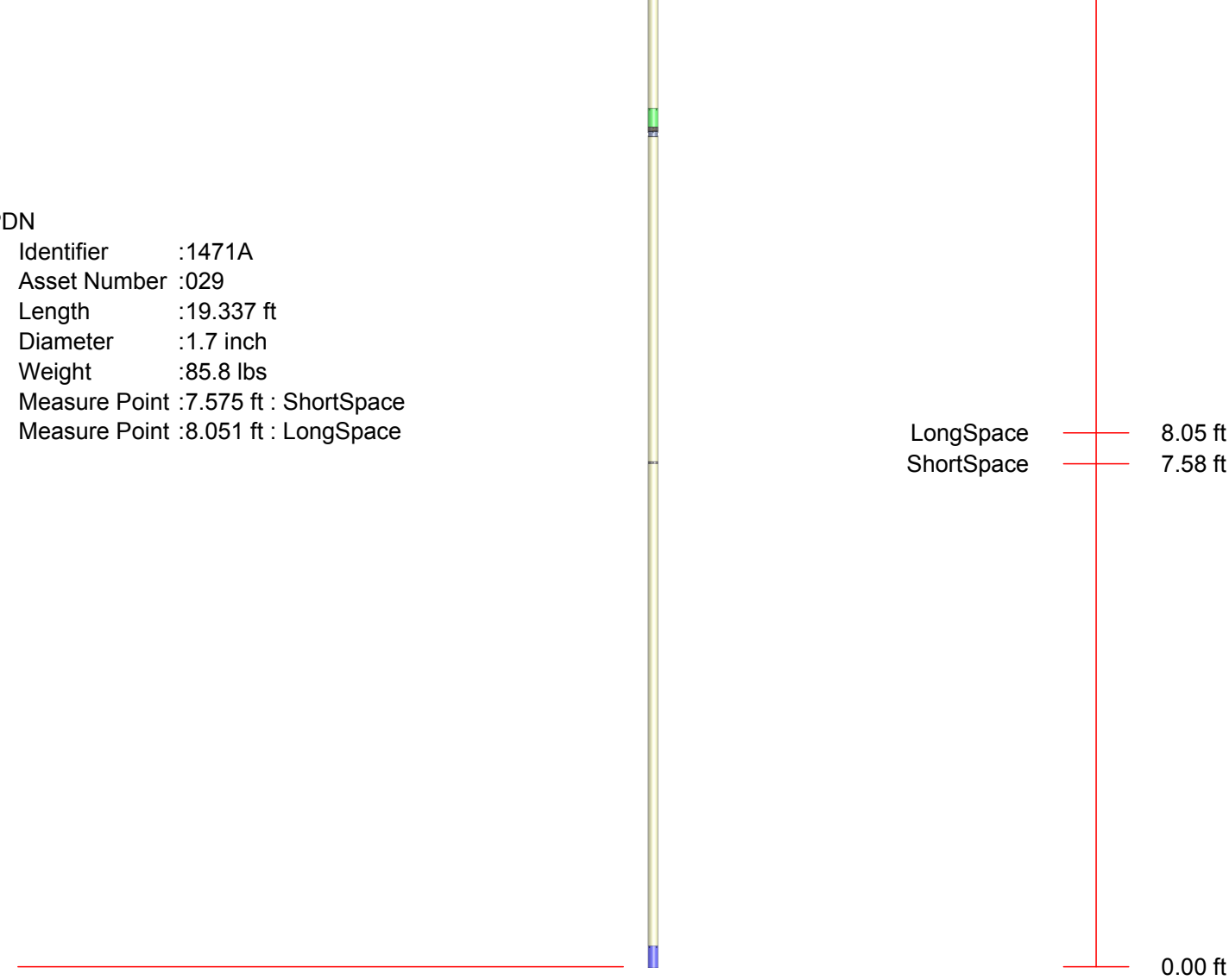
RSBT
- Identifier :1333A
- Asset Number :011
- Length :9.783 ft
- Diameter :2.7 inch
- Weight :149.9 lbs
- Measure Point :2.730 ft : CBL
- Measure Point :4.229 ft : Far
- Measure Point :5.230 ft : Near
- Measure Point :5.728 ft : Radial

Inline Centralizer
- Identifier :0595b
- Asset Number :None
- Length :2.887 ft
- Diameter :2.7 inch
- Weight :11.0 lbs

CCL	41.73 ft
Gamma	38.49 ft
Radial	27.95 ft
Near	27.45 ft
Far	26.45 ft
CBL	24.95 ft

PDN

Identifier :1471A
Asset Number :029
Length :19.337 ft
Diameter :1.7 inch
Weight :85.8 lbs
Measure Point :7.575 ft : ShortSpace
Measure Point :8.051 ft : LongSpace



Total Length : 42.56 ft
Total Weight : 291.89 lbs
Max Diameter : 2.7 inch

File : C:\Antares5.92\UserData\ECCV DI-2\ASF_0929A_047.cvf

Tool name : ***Telemetry*** *Asset :* ***047*** *Series :* ***0929A*** *Source ID :*

Gamma

Gamma Calibration

Time
Setup
Description
Setup Version 00000

Block	*Raw Value*	*User Value*	*Device*	*Device SN*	*Mult.*
Background	0				
Jig ON	1				
Gamma	1	0.9 gAPI			0.9

Tool name : ***Telemetry*** *Asset :* ***047*** *Series :* ***0929A*** *Source ID :*

Acc

Two Point Calibration

Time

Setup

Description

Setup Version 00000

Curve Name	pt	Raw Value	User Value	Device	Mult.	Add.
Accel	1	0	0 g		0.991621	-0.000
Accel	2	1.00845	1 g			

File : C:\Antares5.92\UserData\ECCV DI-2\ASF_1333A_011.cvf

Tool name : ***RSBT*** *Asset :* ***011*** *Series :* ***1333A*** *Source ID :*

GoodAmpPercentF

Array Calibration

Time

Setup

Description

Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
01:	10										

Tool name : ***RSBT*** *Asset :* ***011*** *Series :* ***1333A*** *Source ID :*

GoodAmpPercentN

Array Calibration

Time

Setup

Description

Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
01:	10										

Tool name : ***RSBT*** *Asset :* ***011*** *Series :* ***1333A*** *Source ID :*

GoodAmpPercentS

Array Calibration

Time

Setup

Description

Setup Version 00000

No	Value	No	Value	No	Value	No	Value	No	Value	No	Value
01:	10										

Tool name : ***RSBT*** *Asset :* ***011*** *Series :* ***1333A*** *Source ID :*

Amplitudes

RSBT Amplitude Calibration

Time

Setup

Description

Setup Version 00000

Device Description

Casing ID	4.78 inch
Fluid Velocity	1500 m/s
Amplitude	100 %

Instrument Readings

	Near	Far
CBL Amplitudes	6490.870	7339.970

	1	2	3	4	5	6	7	8
Radial Amplitudes	5565.980	5479.440	5792.180	6143.380	6237.380	5866.010	5760.950	5637.710

File : C:\Antares5.92\UserData\ECCV DI-2\ASF_1471A_029.cvf

Tool name : ***PDN*** *Asset :* ***029*** *Series :* ***1471A*** *Source ID :*

Ratio

Compensated Neutron Calibration

Time

Setup

Description

Setup Version 00000

Curve Name	*pt*	*Raw Value*	*User Value*	*Device*	*Mult.*
Ratio	1	5.271	5.271 none		1.000000

RELIANCE OILFIELD SERVICES

API #:

COMPANY: Hydro Resources

WELL: ECCV DI-2

FIELD: Wattenberg

COUNTY: Adams

DATE : 1-July-2016

STATE: Colorado

Pulsed Neutron
Gamma Ray
Casing Collar Log