MIDWEST WIRELINE

BOREHOLE COMPENSATED SONIC LOG

Company Murfin Drilling Company, Inc.
Well CWA 'G' #1-8
Field
County Cheyenne State Kansas
Location: API # : 15-023-21560-00-00
330 FSL & 1080 FWL
SEC 8 TWP 3S RGE 37W

Other Services: CNL/CDL, DIL/MEL

Elevation: K.B. 3436, D.F., G.L. 3431

Permanent Datum: Ground Level, Elevation 3431
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Company	Murfin Drilling Company, Inc.
Well	CWA 'G' #1-8
Field	
County	Cheyenne
State	Kansas
Date	11/5/2021
Run Number	Two
Type Log	BHCS
Depth Driller	5150
Depth Logger	5150
Bottom Logged Interval	5138
Top Logged Interval	400
Type Fluid In Hole	Chemical
Salinity, PPM CL	1400
Density	9.2
Level	Full
Max. Rec. Temp. F	128
Operating Rig Time	6 Hours
Equipment -- Location	P-24 | HAYS
Recorded By	D. Schmidt
Witnessed By	Robert Hendrix

Borehole Record

Run No.	Bit	From	To
One	12.25	0	403
Two	7.875	403	TD

Casing Record

Size	Wgt.	From	To
8.625	23	0	403

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

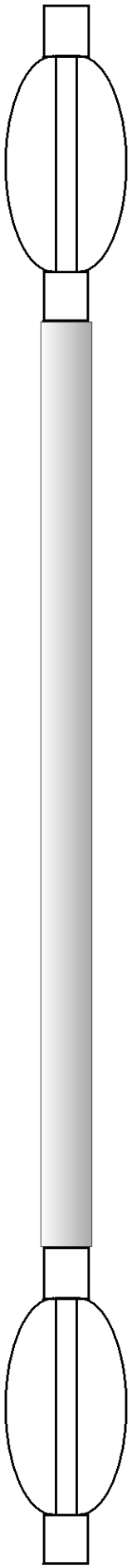
McDonald,
West to 30 Rd, 4 North, 1/4 East,
South into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: D. Schmidt	Primary Witness: Robert Hendrix
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CENT-PENGO (3-PENGO)	5.50	3.00	70.00
WVF4	13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF1	13.50					
WVF3	11.50					
WVF2	11.50					
			CENT-PENGO (4-PENGO)	5.50	3.00	70.00

Dataset: murfin_cwa g 1-8.db: field/well/son/pass2
Total length: 27.00 ft
Total weight: 440.00 lb
O.D.: 3.50 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_cwa g 1-8.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	128	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	320	50	Off	5150

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

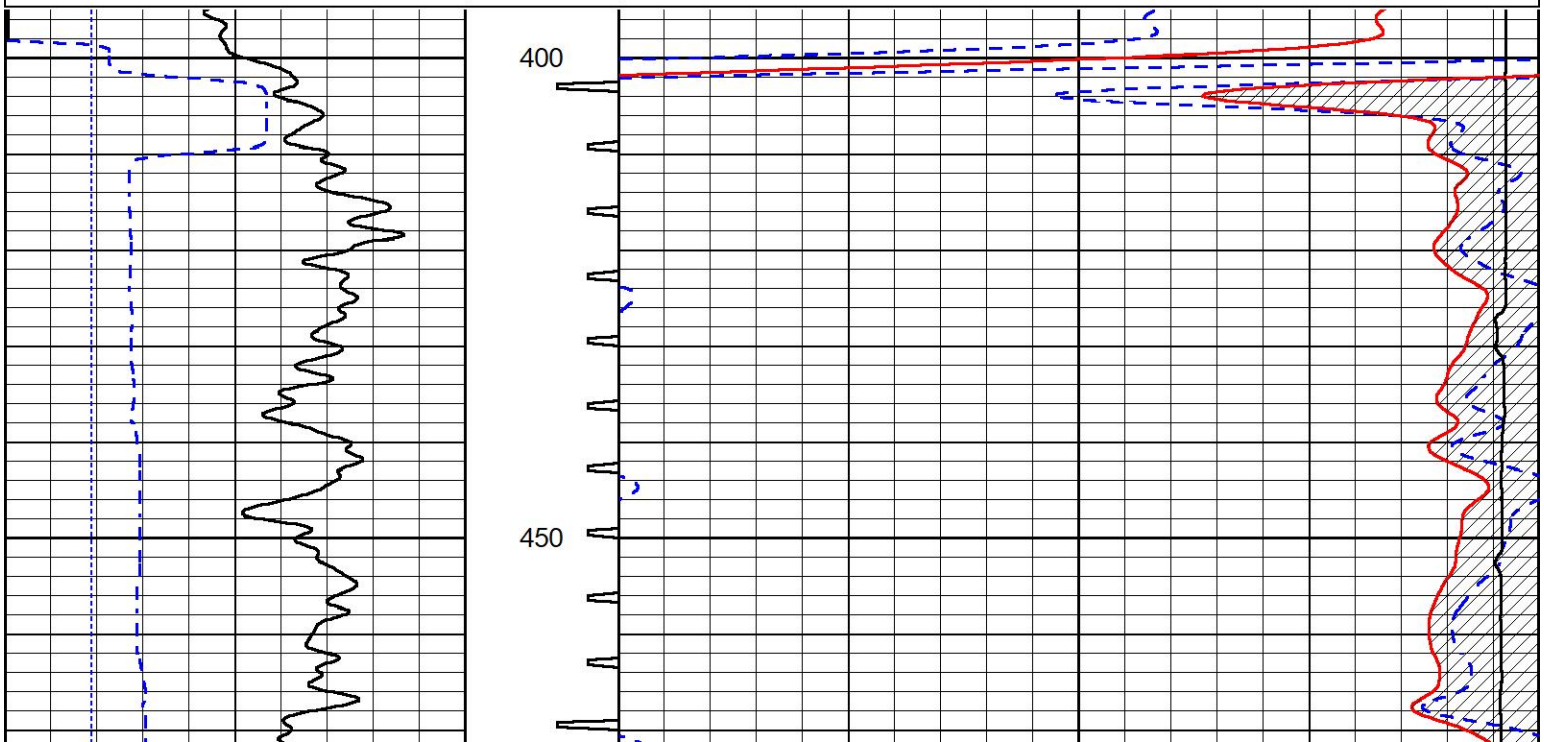
MIDWEST WIRELINE

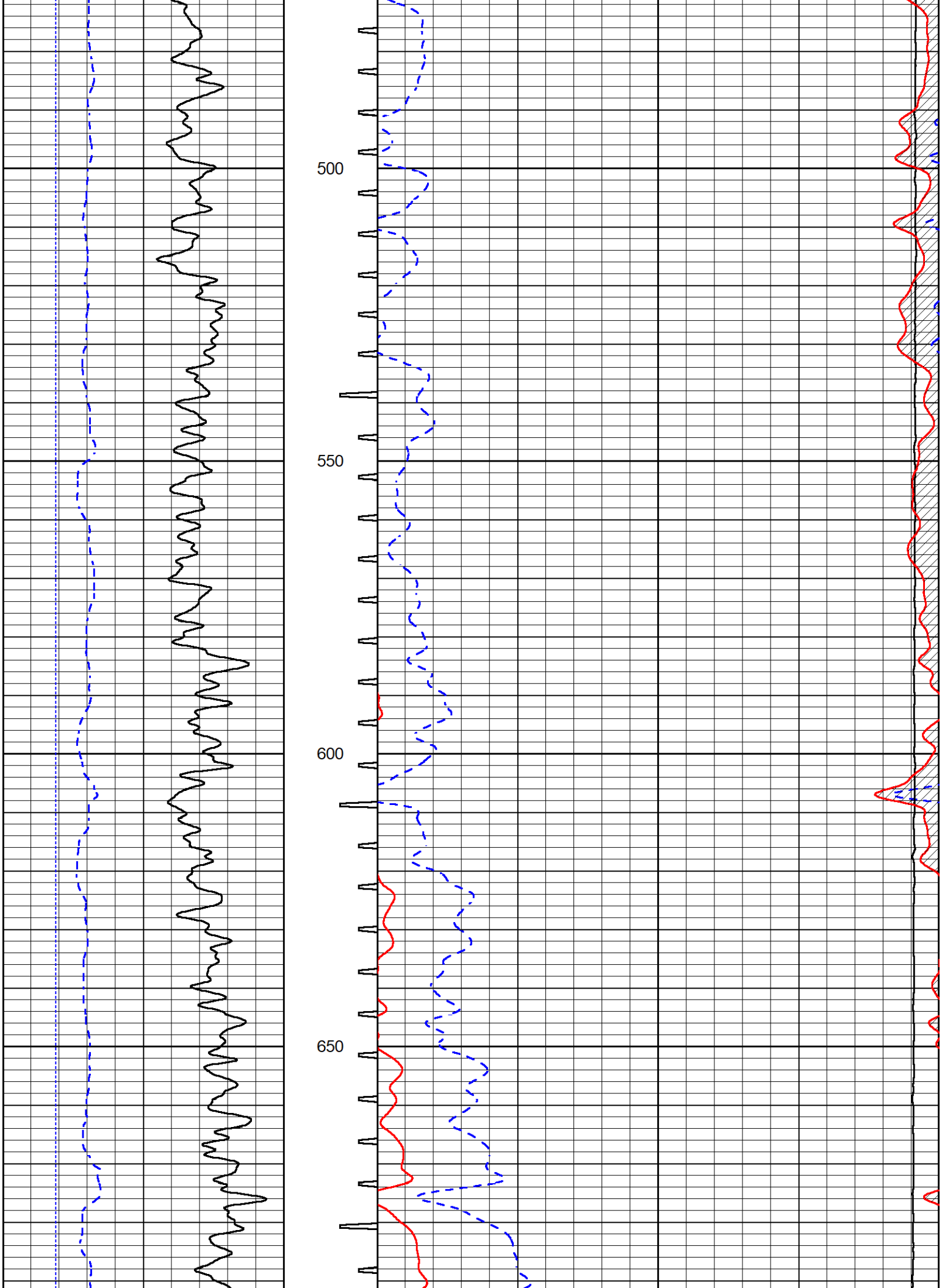
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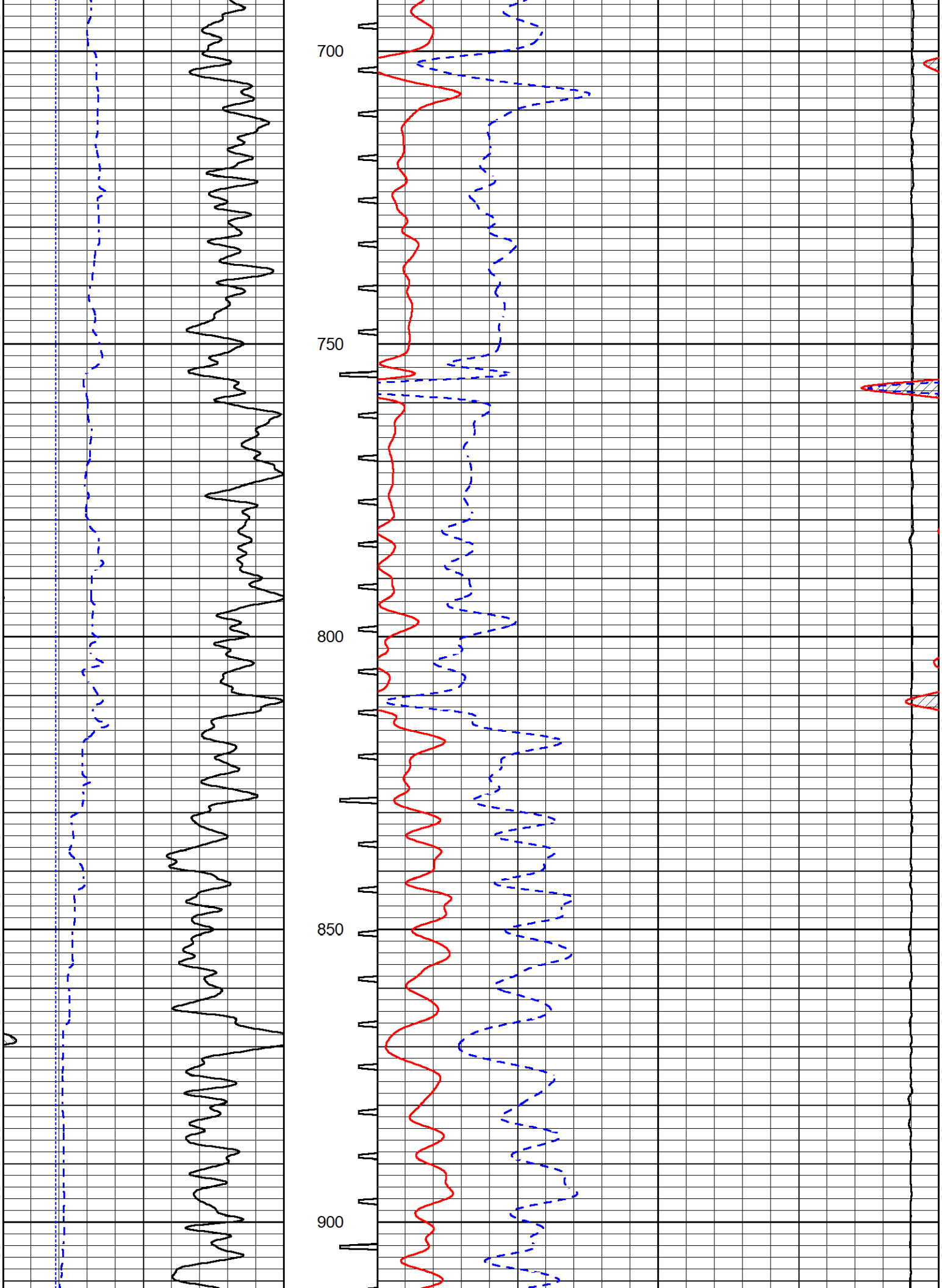
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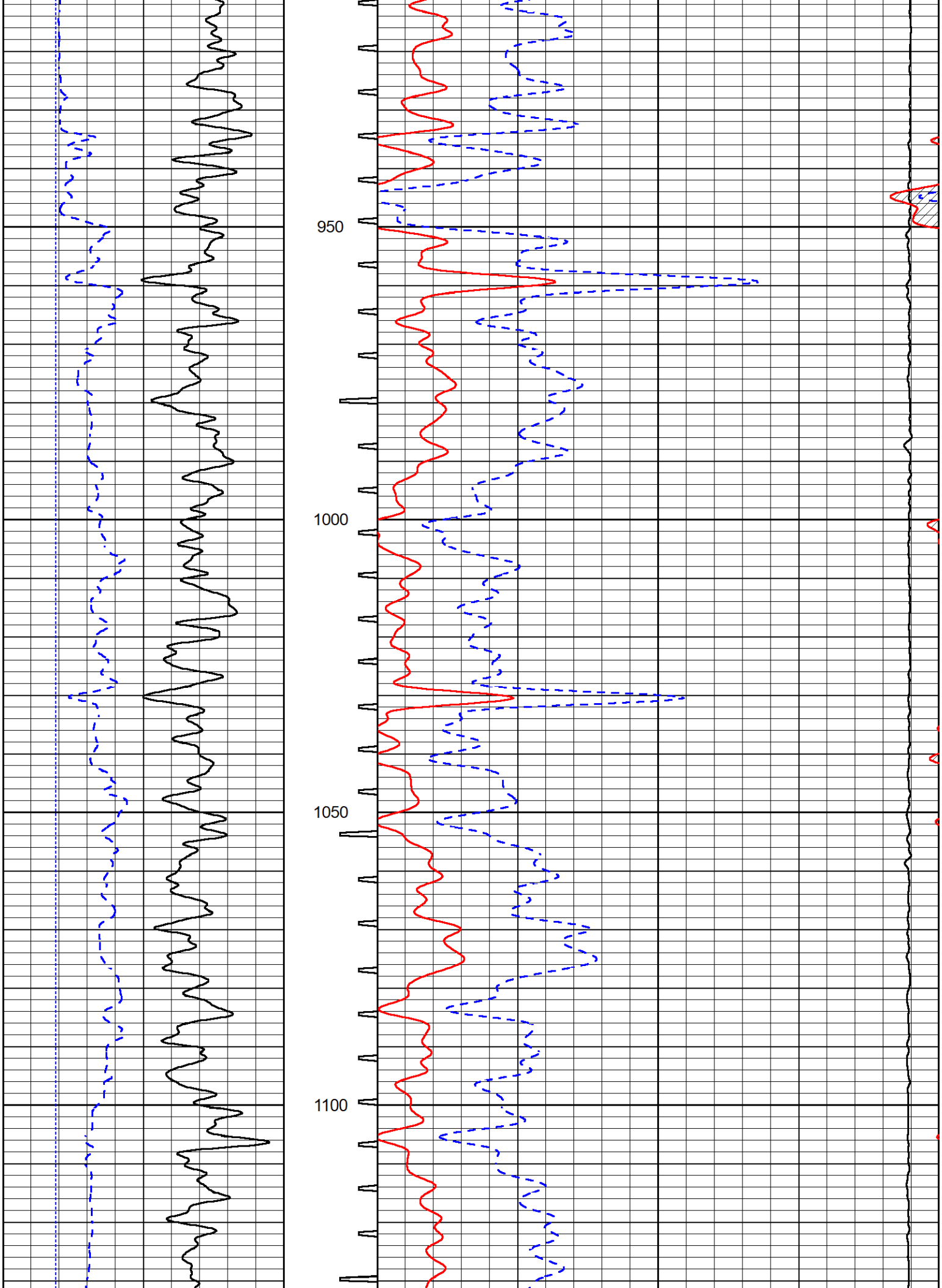
Database File	murfin_cwa g 1-8.db
Dataset Pathname	stkml/pass7.1
Presentation Format	_sonic
Dataset Creation	Fri Nov 05 10:57:08 2021
Charted by	Depth in Feet scaled 1:240

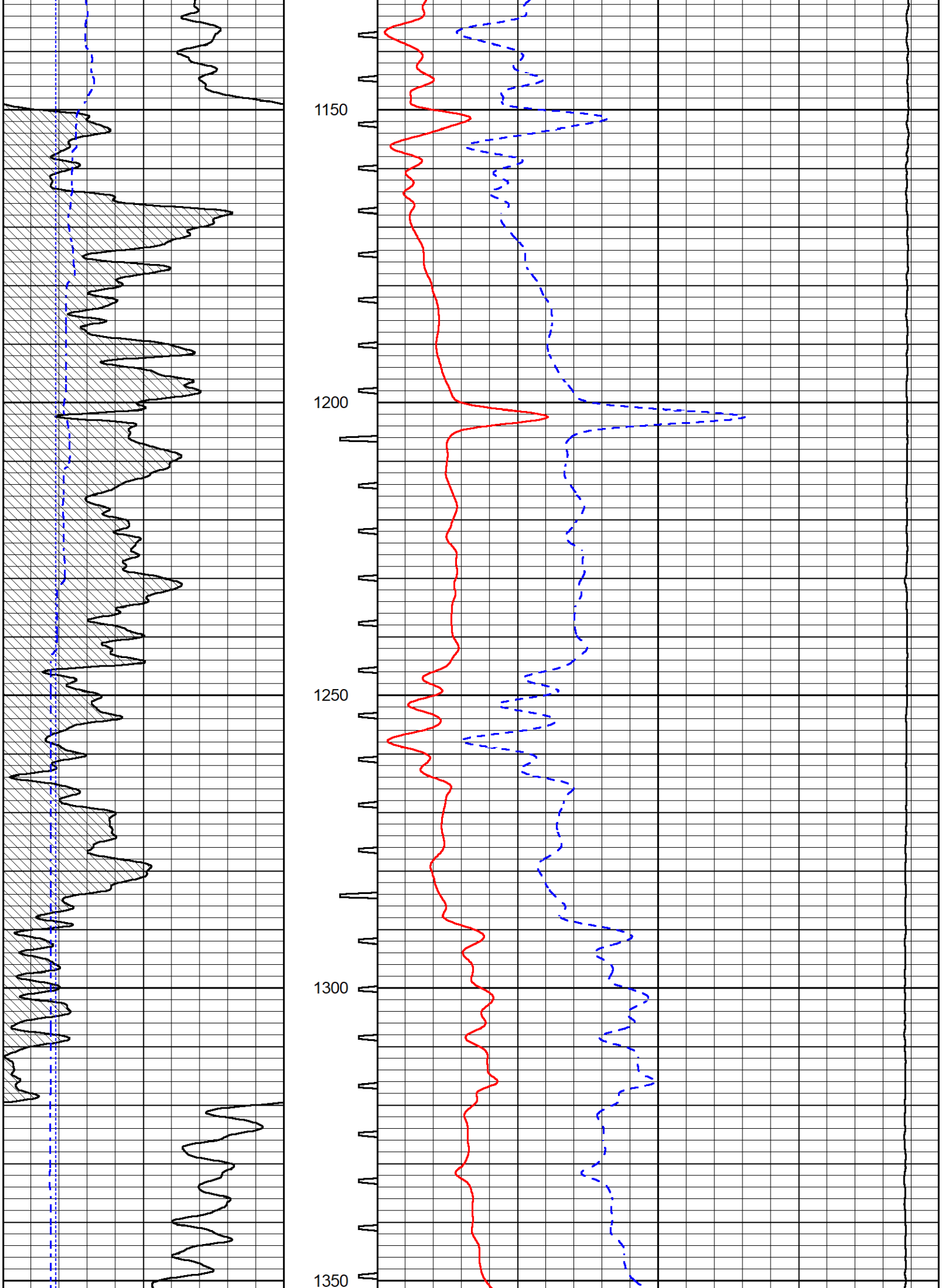
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft) 40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu) -10
6	Caliper (in)	16		15000	Line Tension (lb) 0

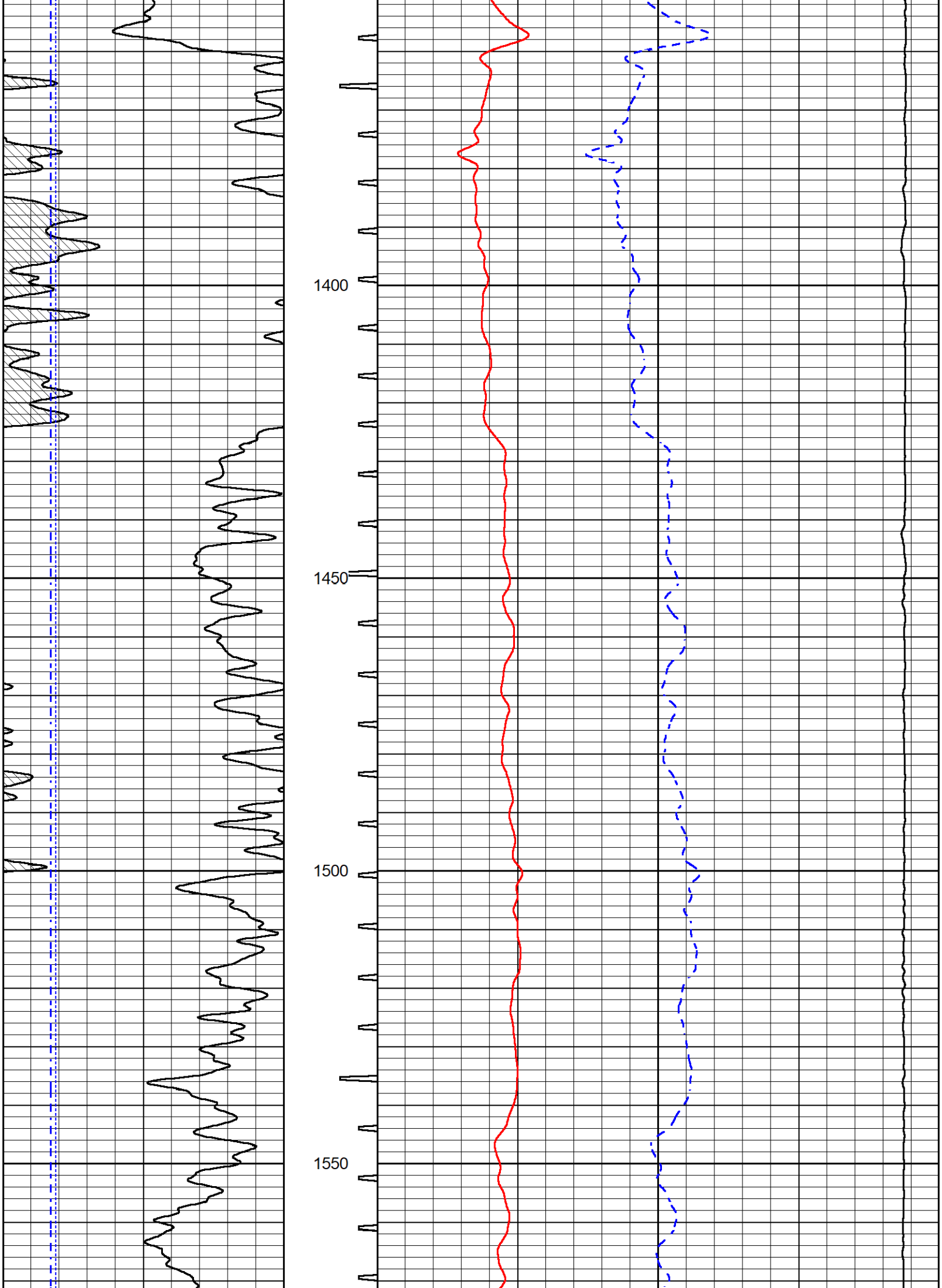


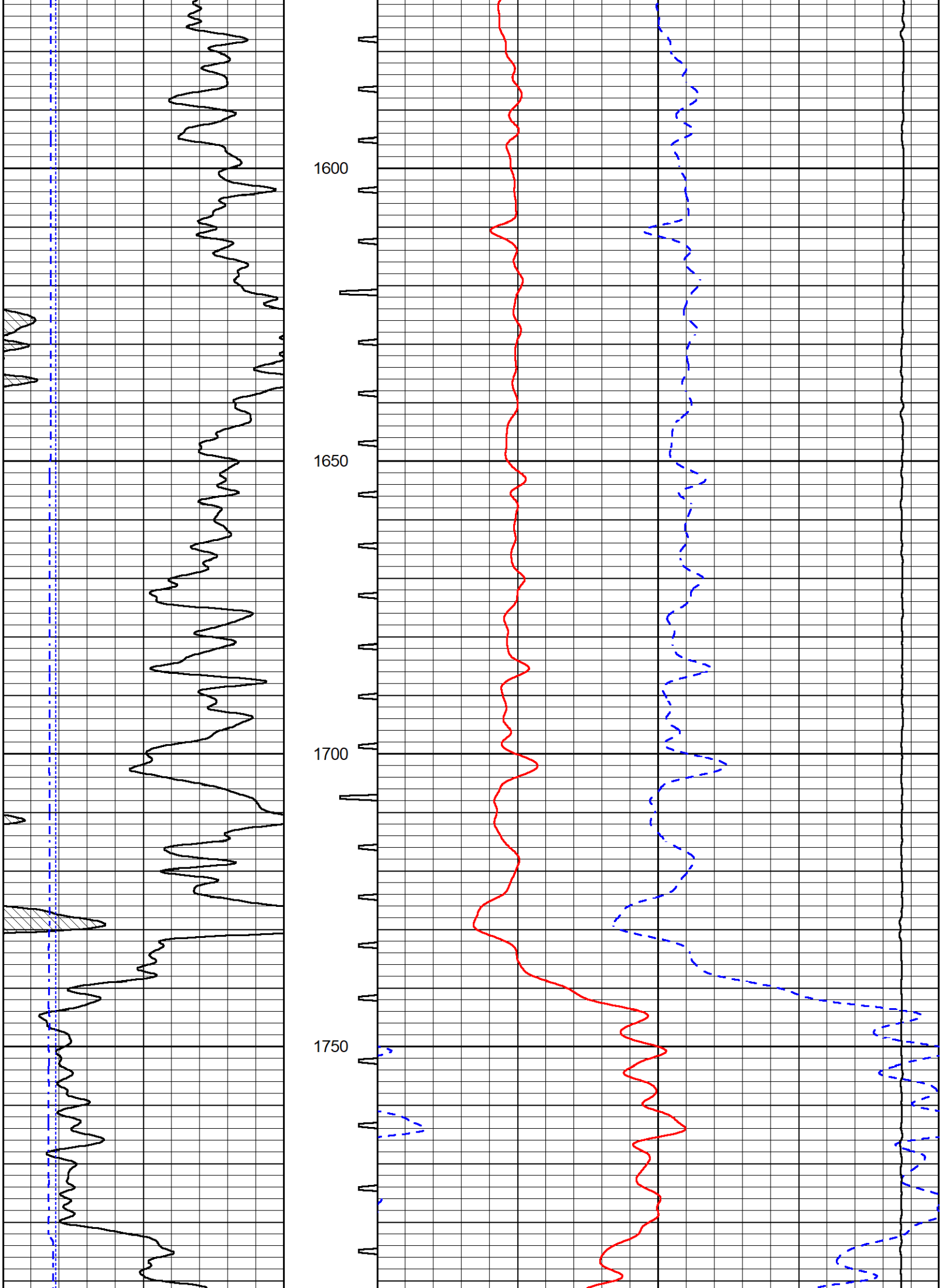

500
550
600
650

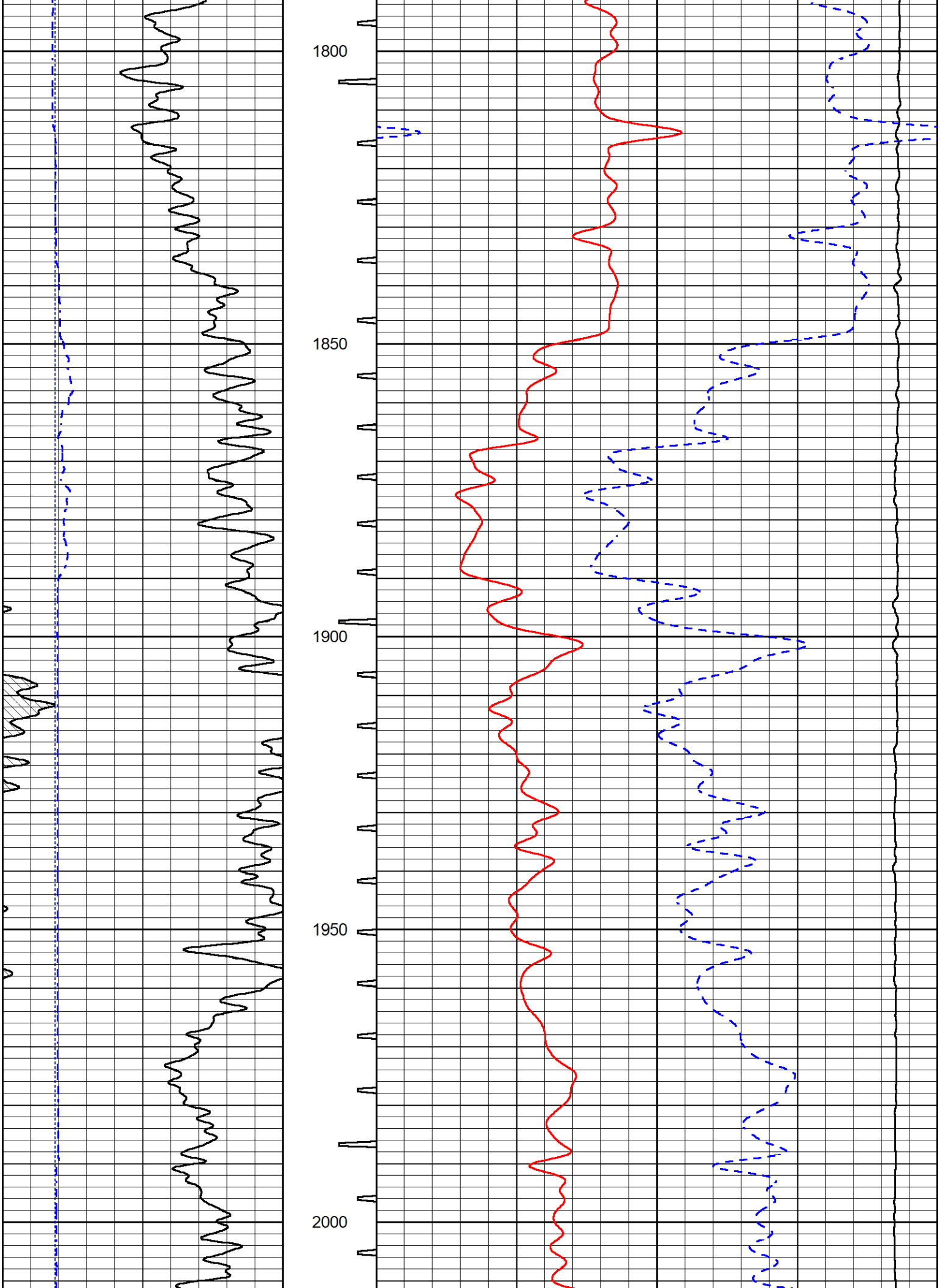

700
750
800
850
900

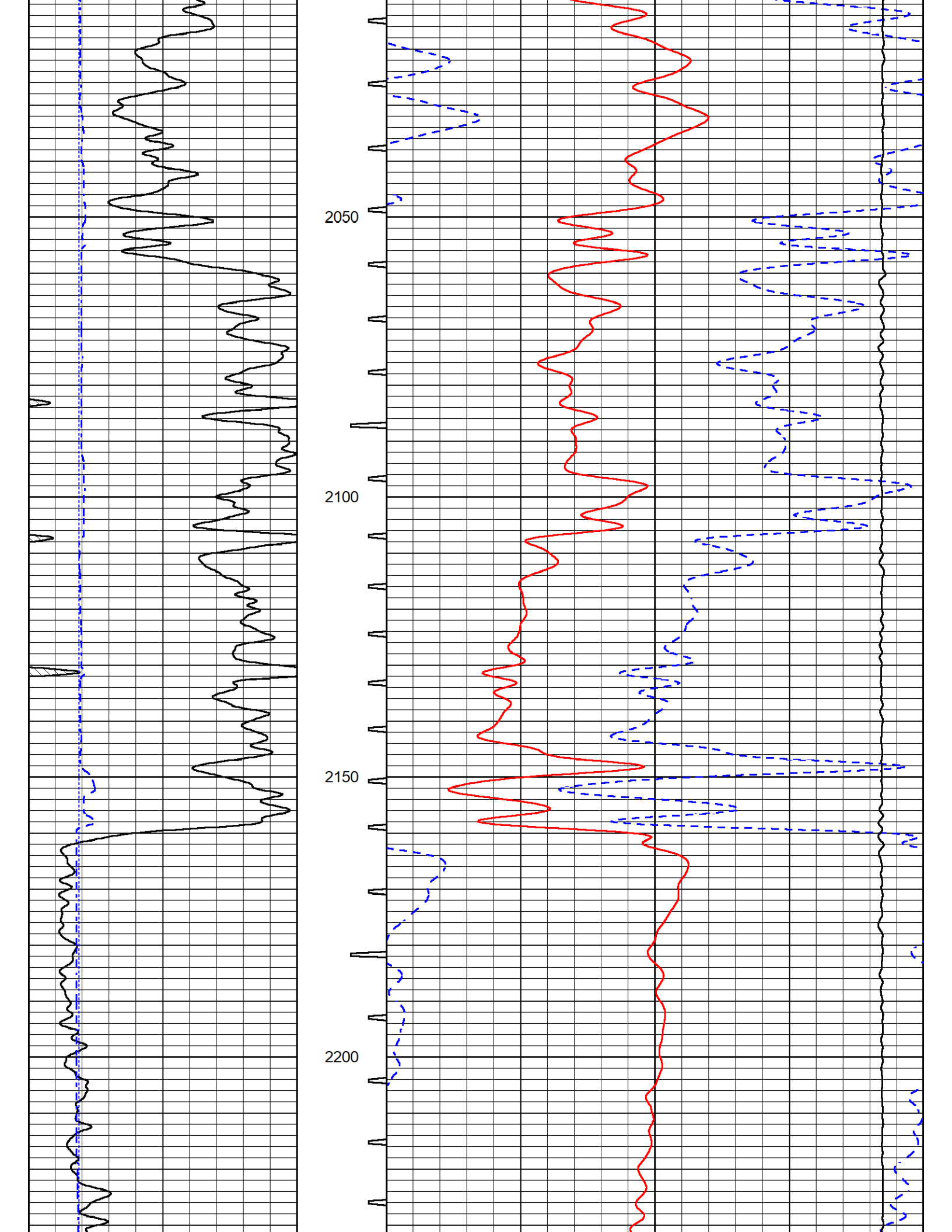

950
1000
1050
1100

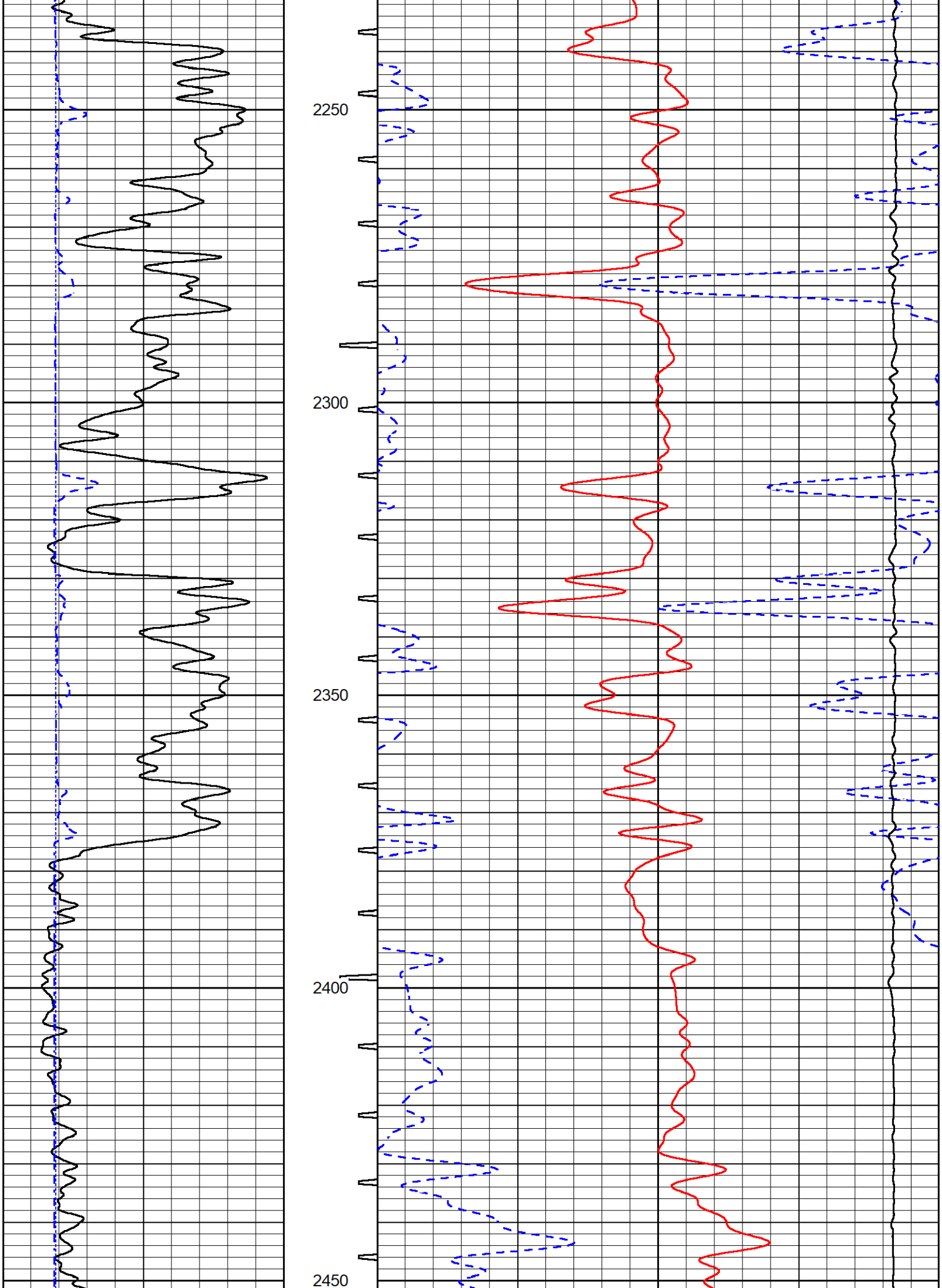

1150
1200
1250
1300
1350

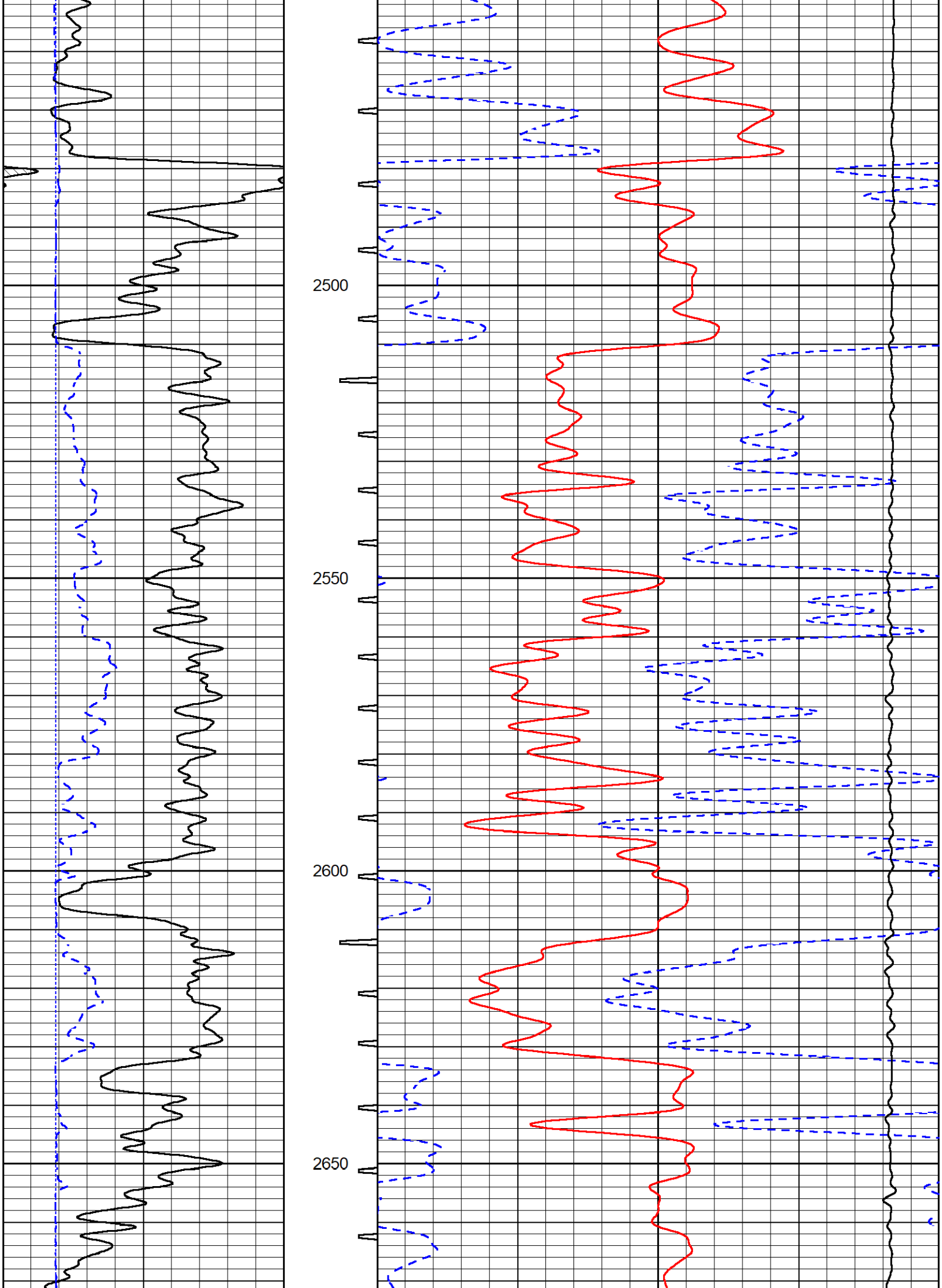

1400
1450
1500
1550

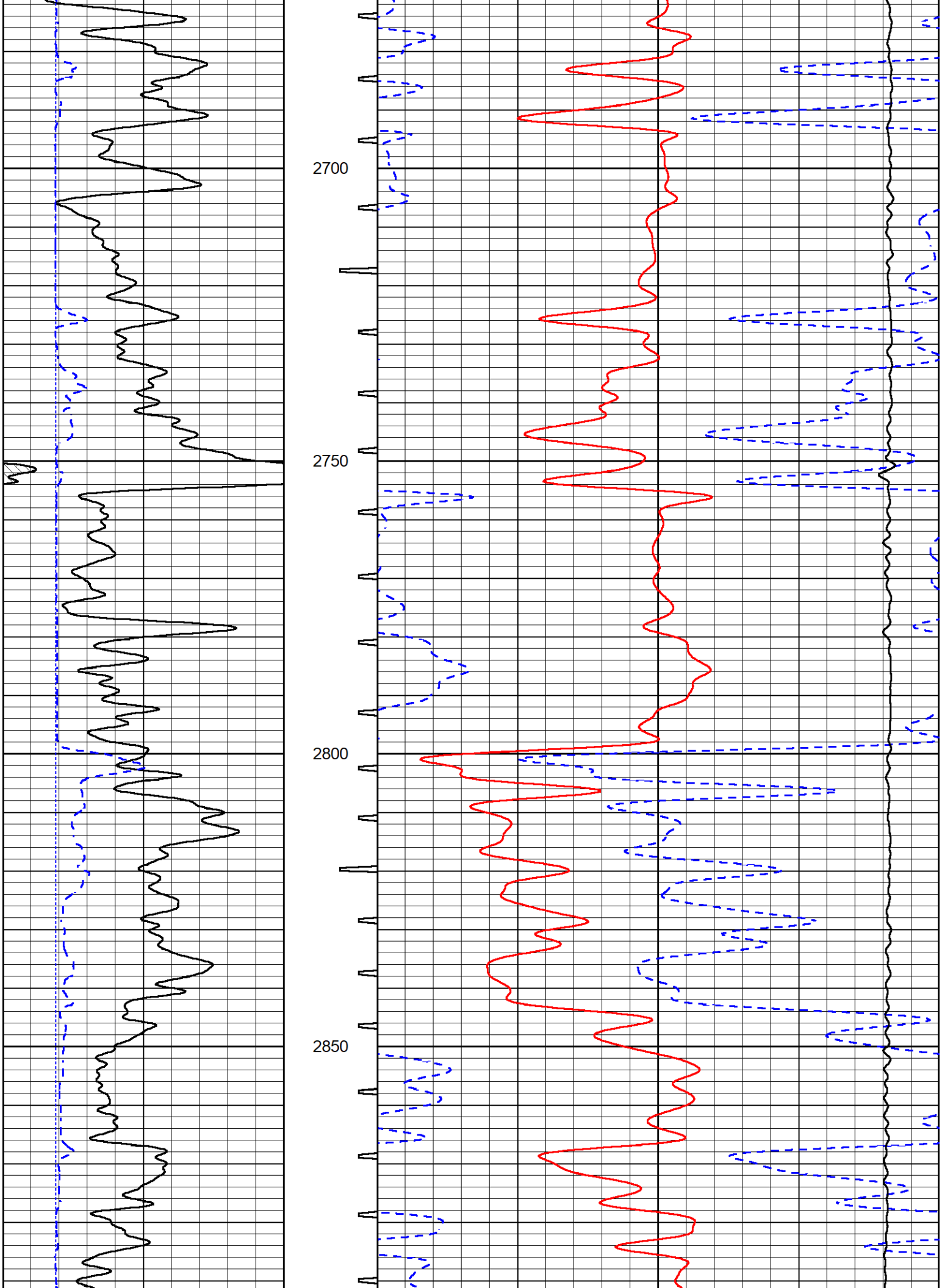

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1650
1700
1750

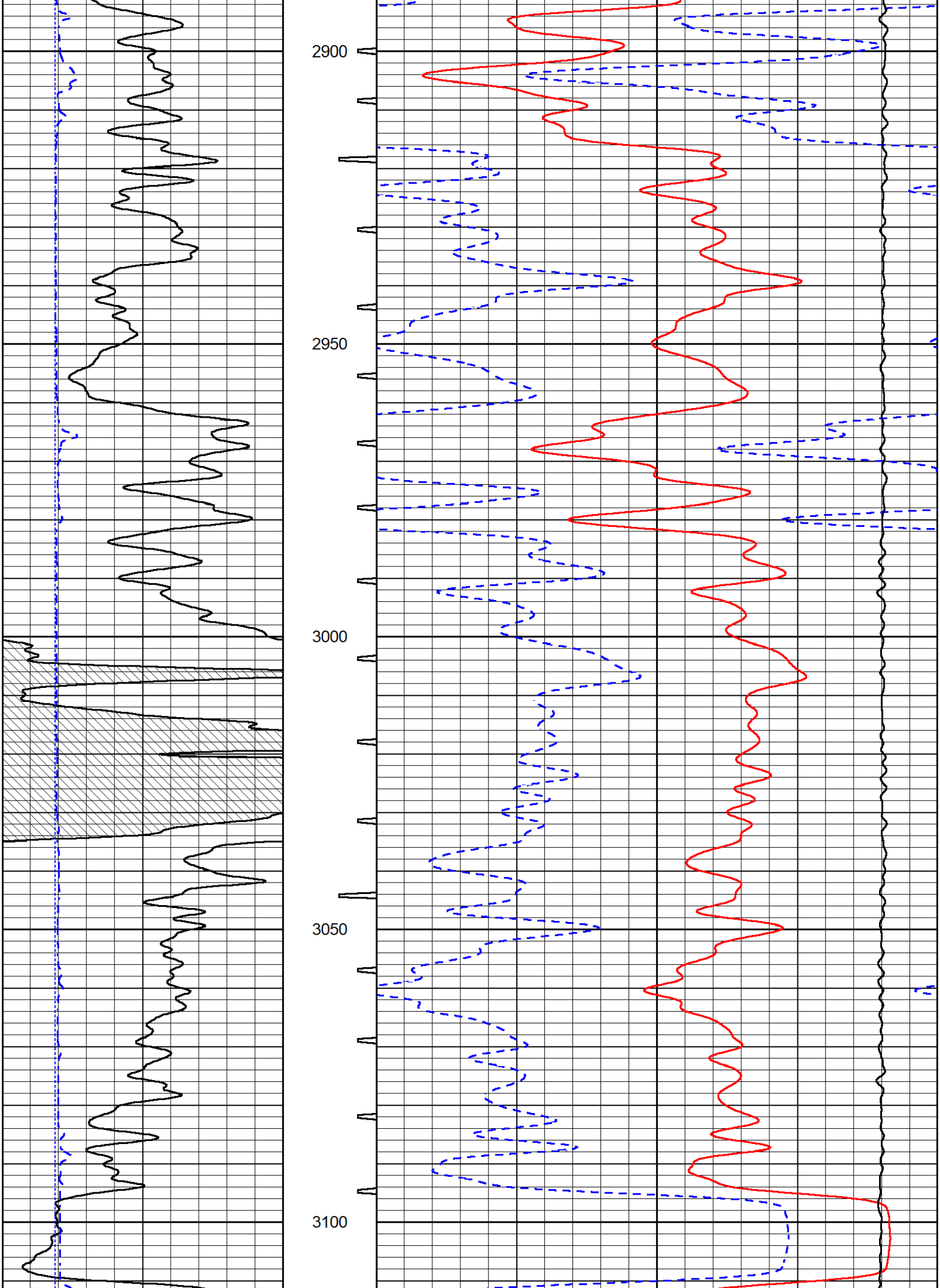

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1850
1900
1950
2000

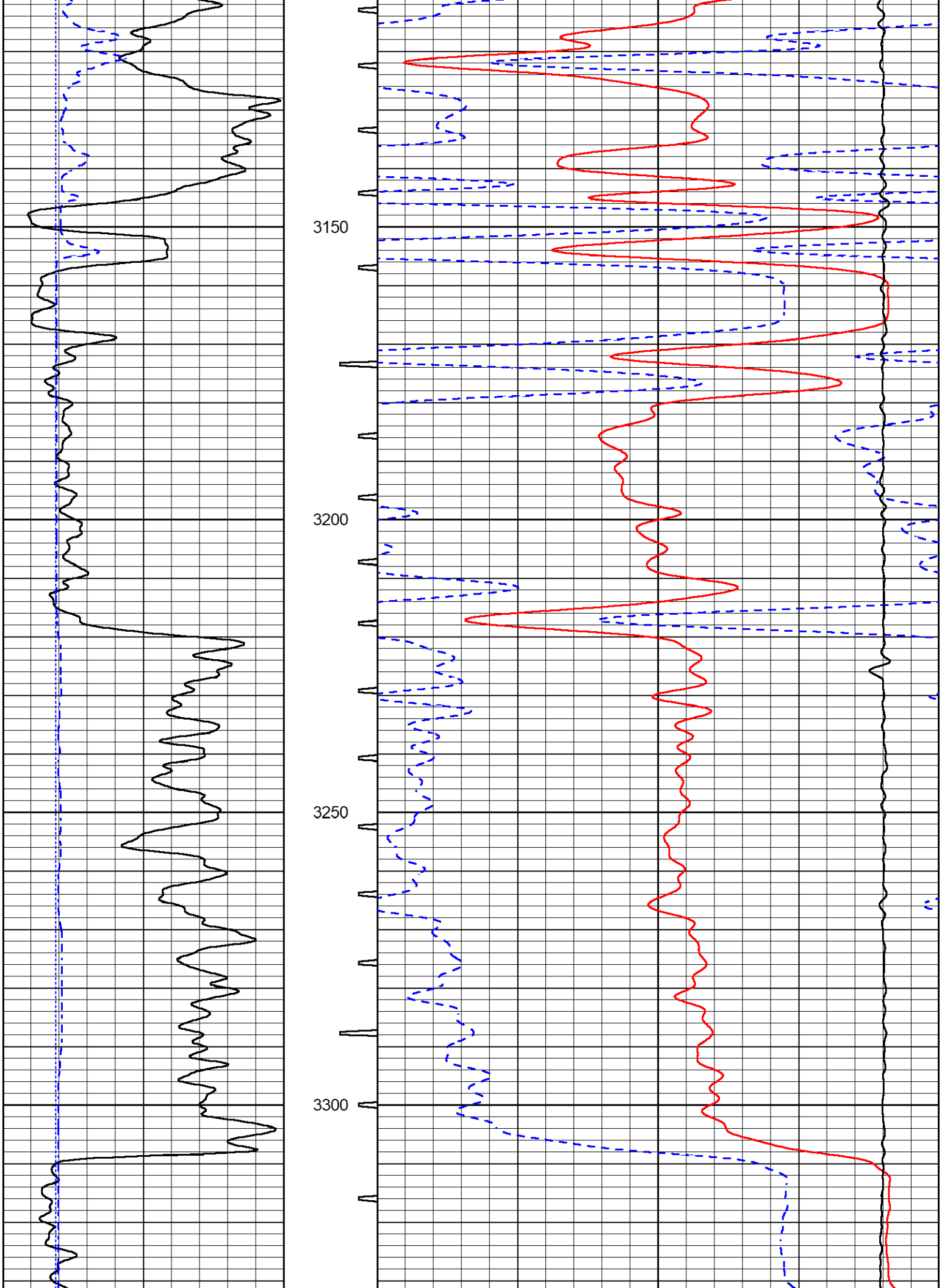

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2100
2150
2200

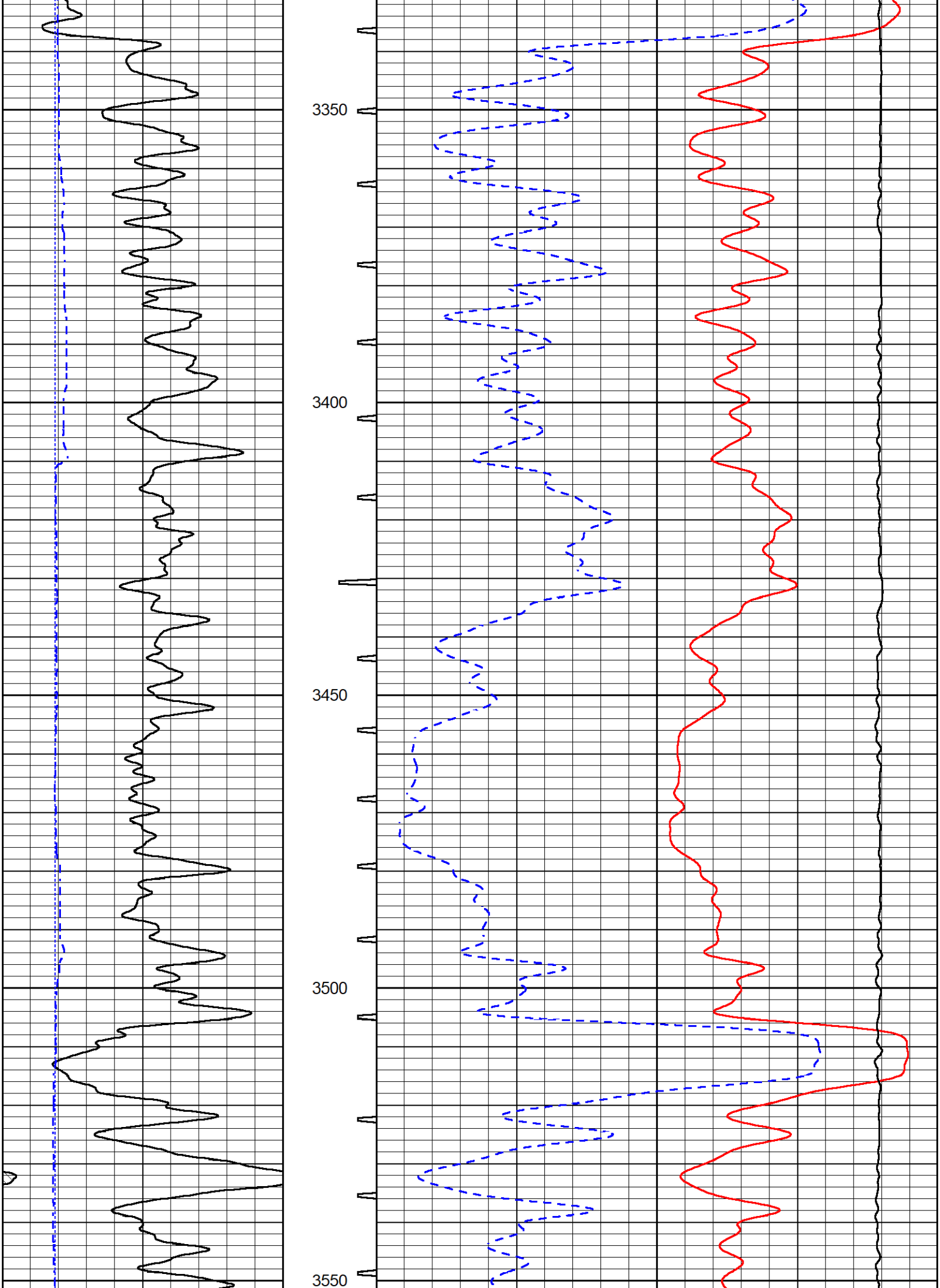

2250
2300
2350
2400
2450

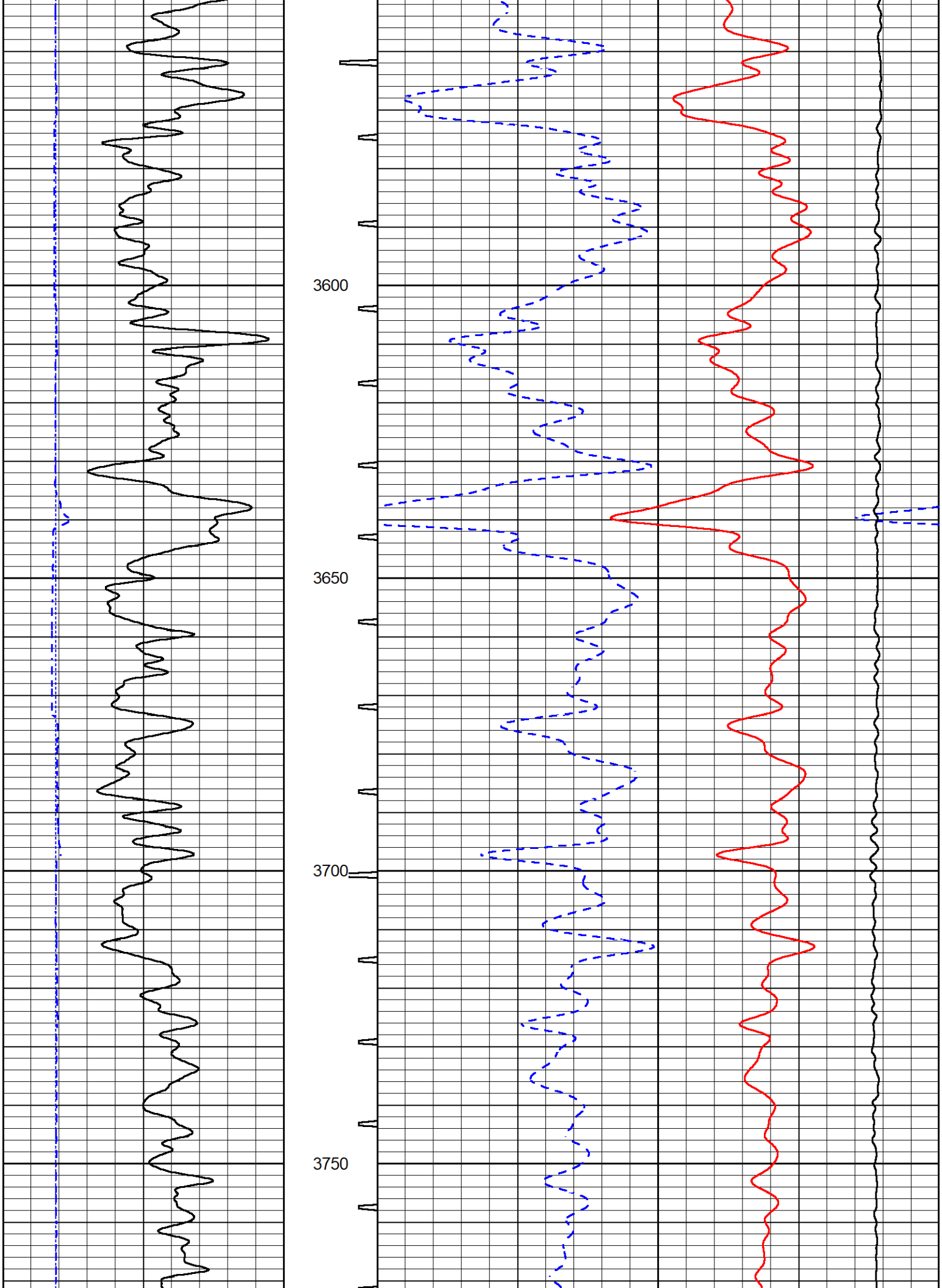

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2600
2650

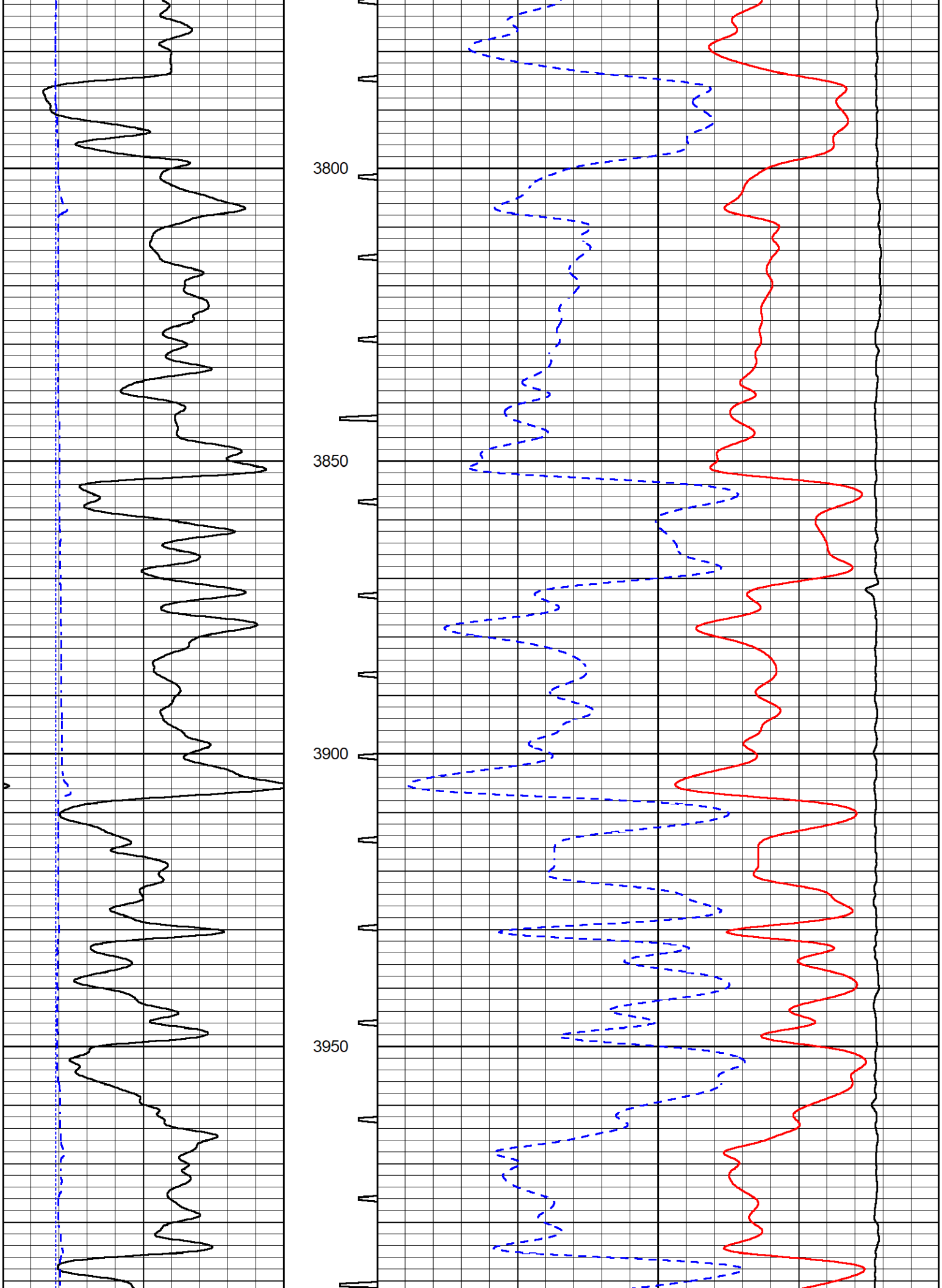

2700
2750
2800
2850

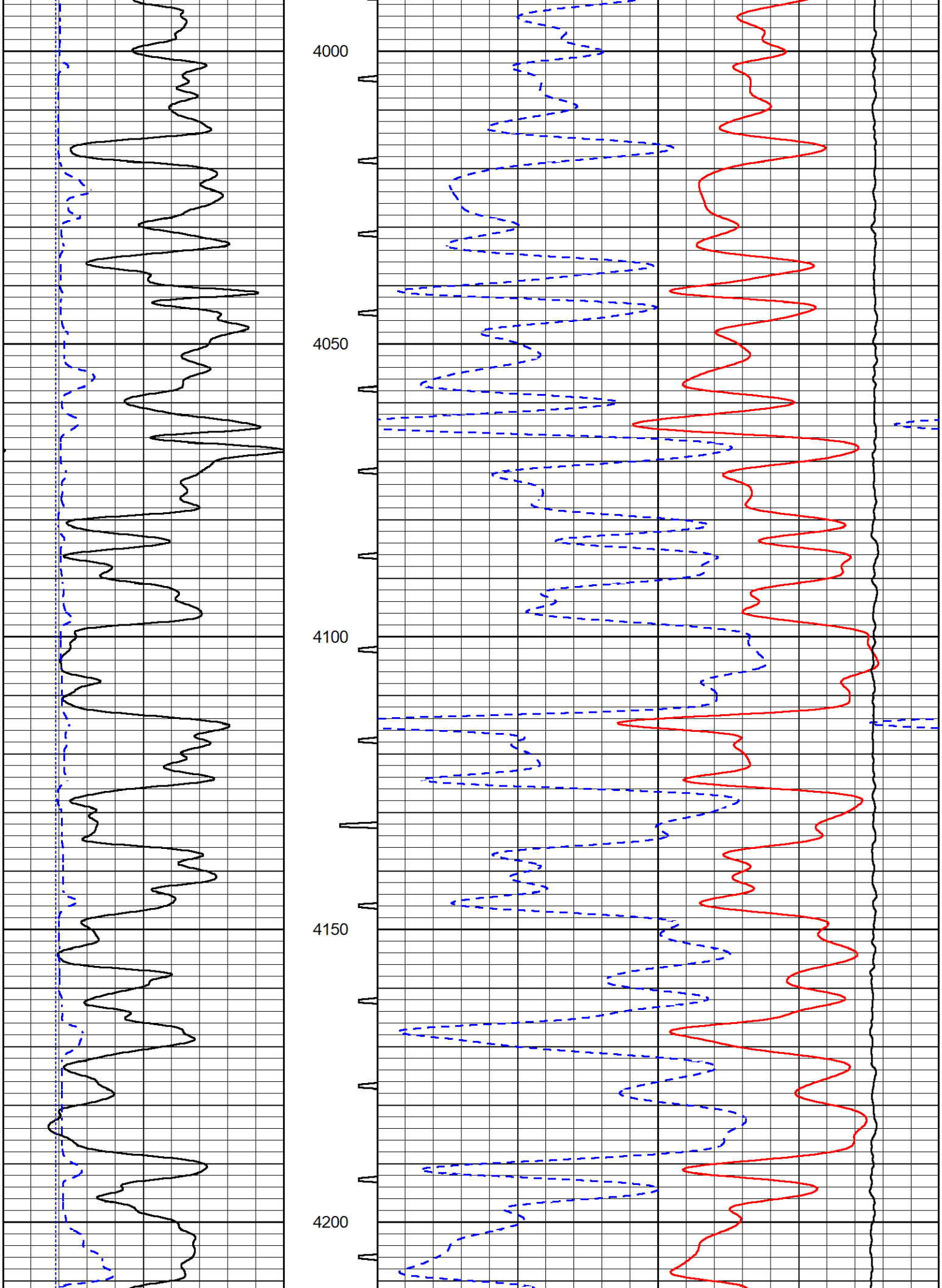

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3000
3050
3100

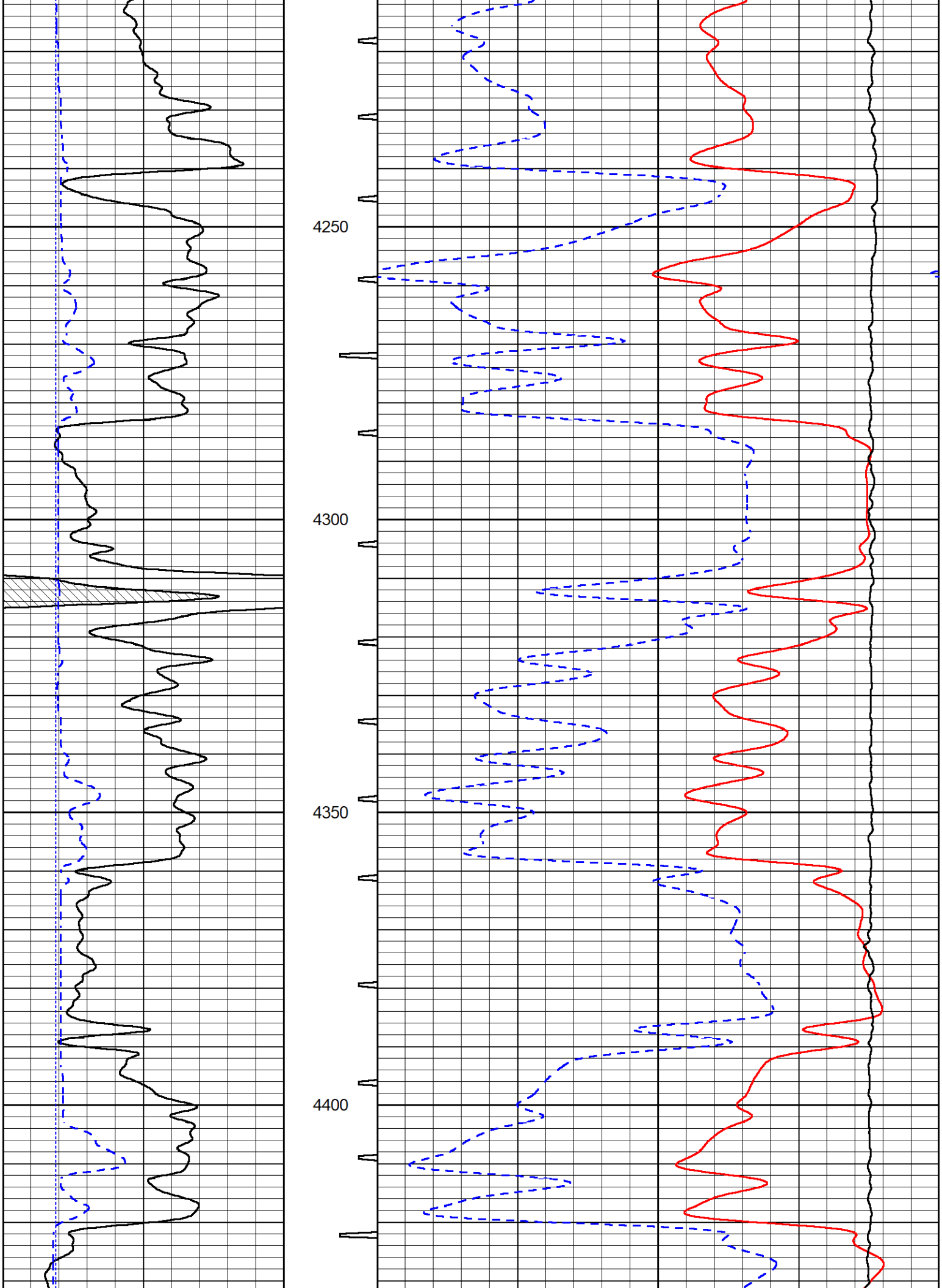

3150
3200
3250
3300

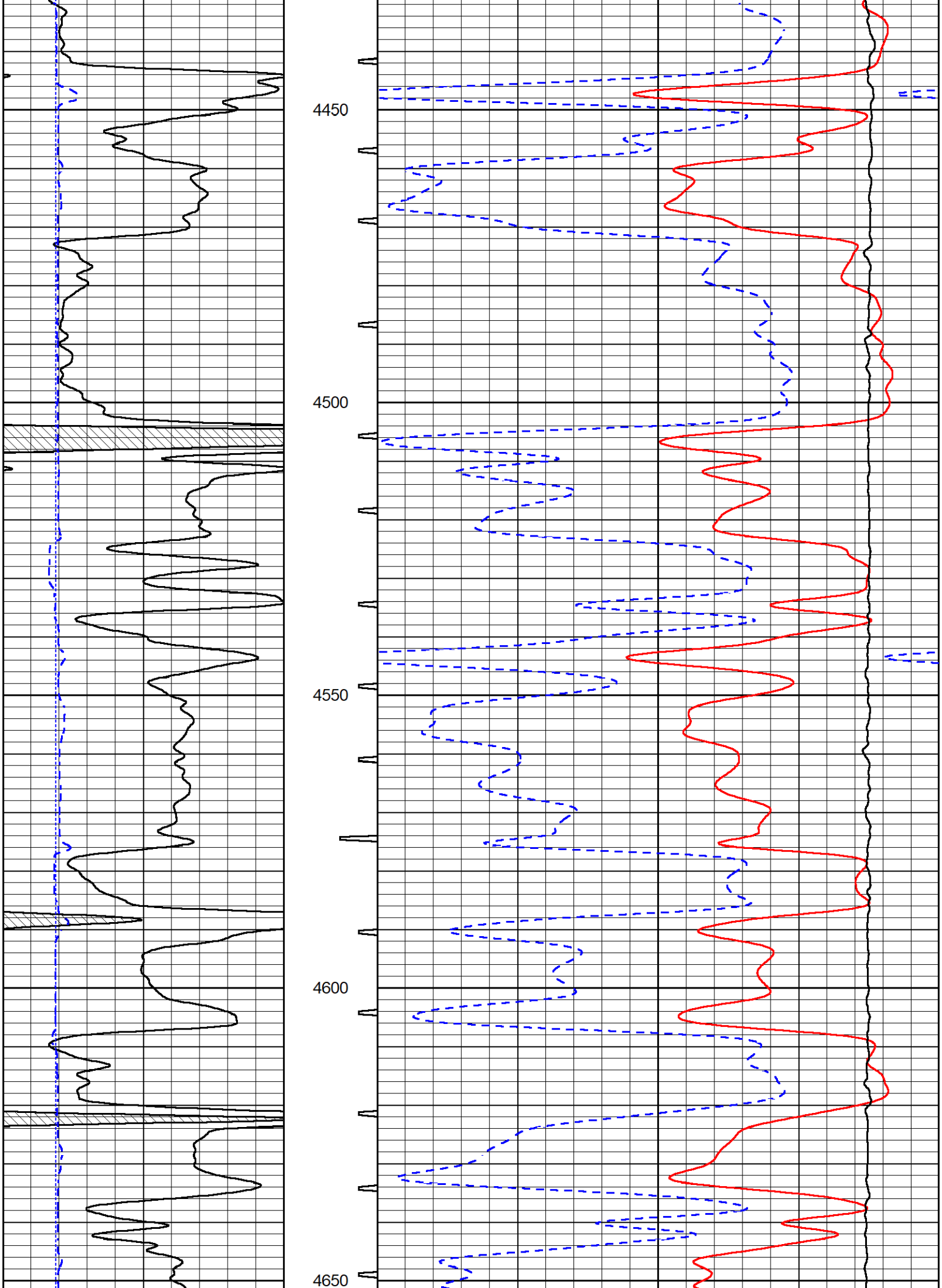

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3400
3450
3500
3550

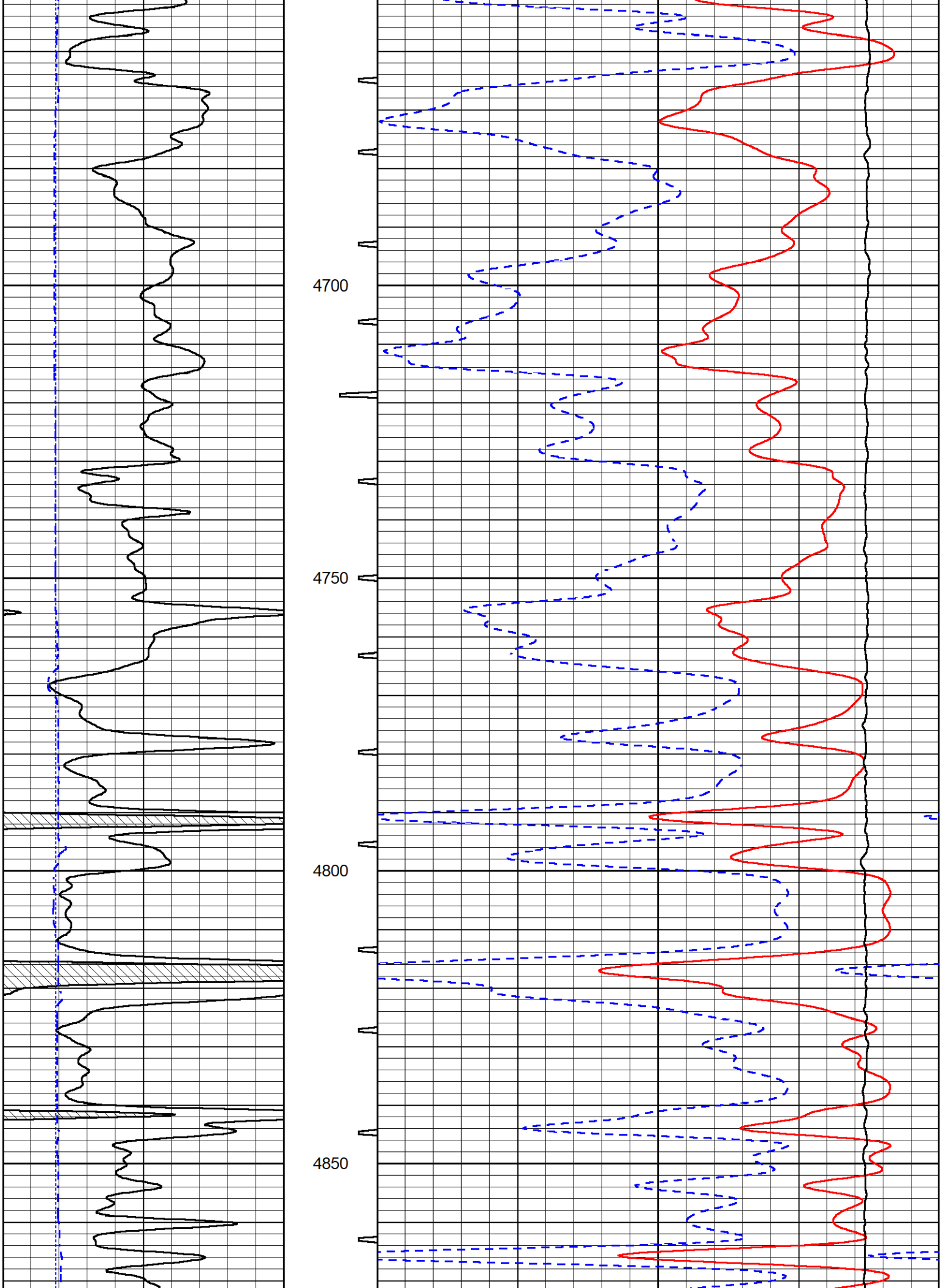

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3650
3700
3750

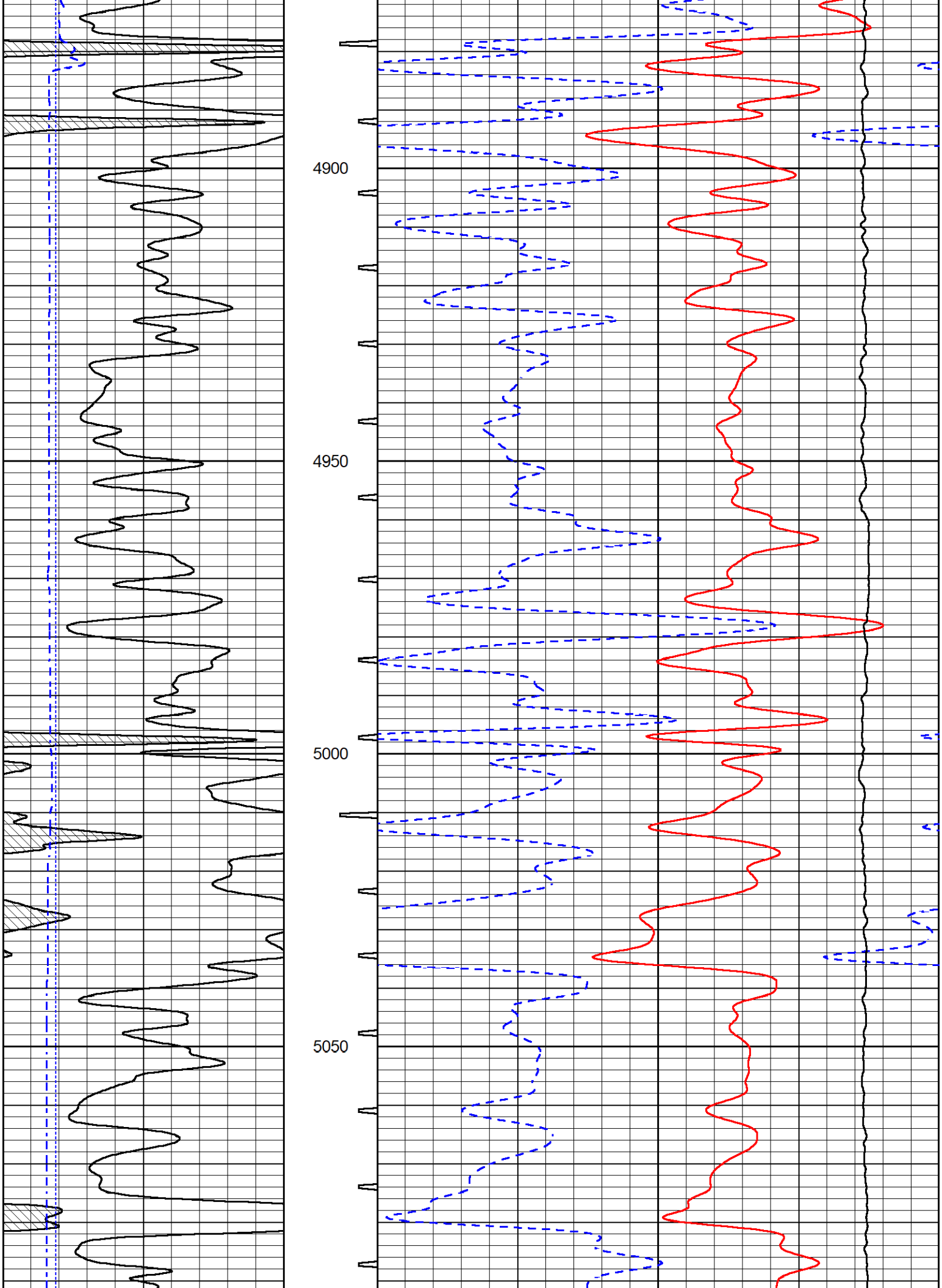

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3850
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3950

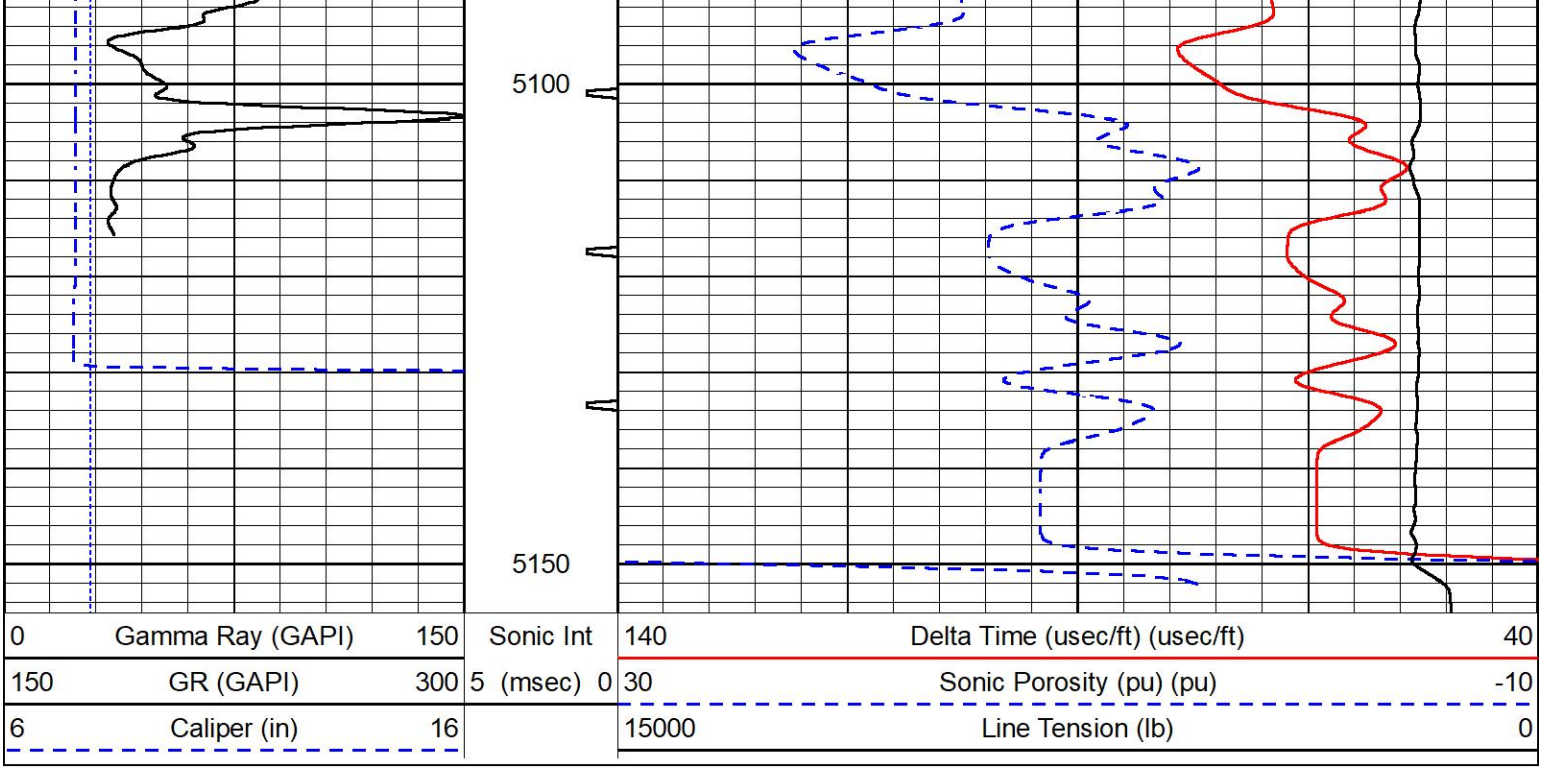

4000
4050
4100
4150
4200


4250
4300
4350
4400


4450
4500
4550
4600
4650


4700
4750
4800
4850


4900
4950
5000
5050



0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu)	-10
6	Caliper (in)	16		15000	Line Tension (lb)	0

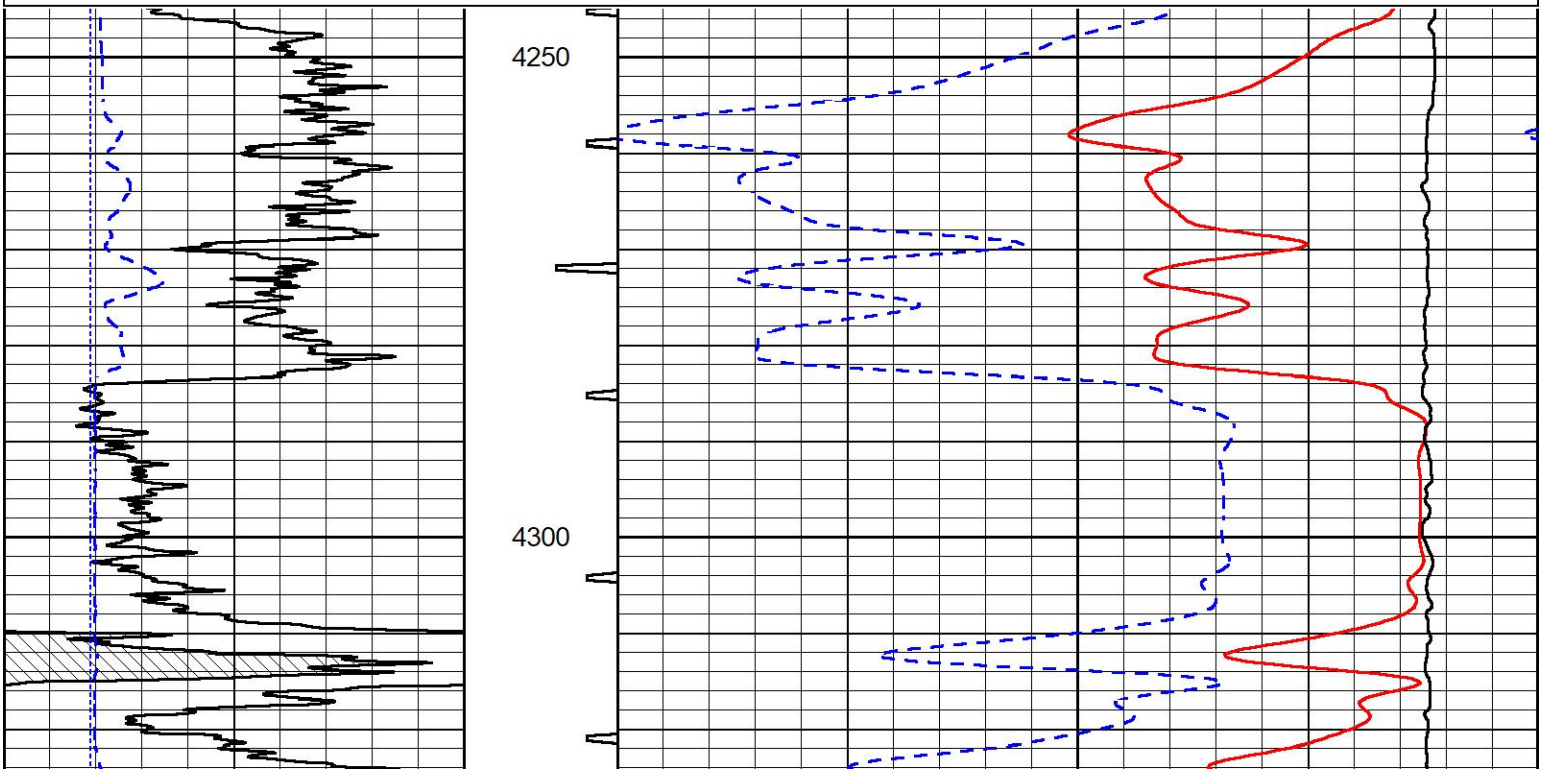
MIDWEST WIRELINE

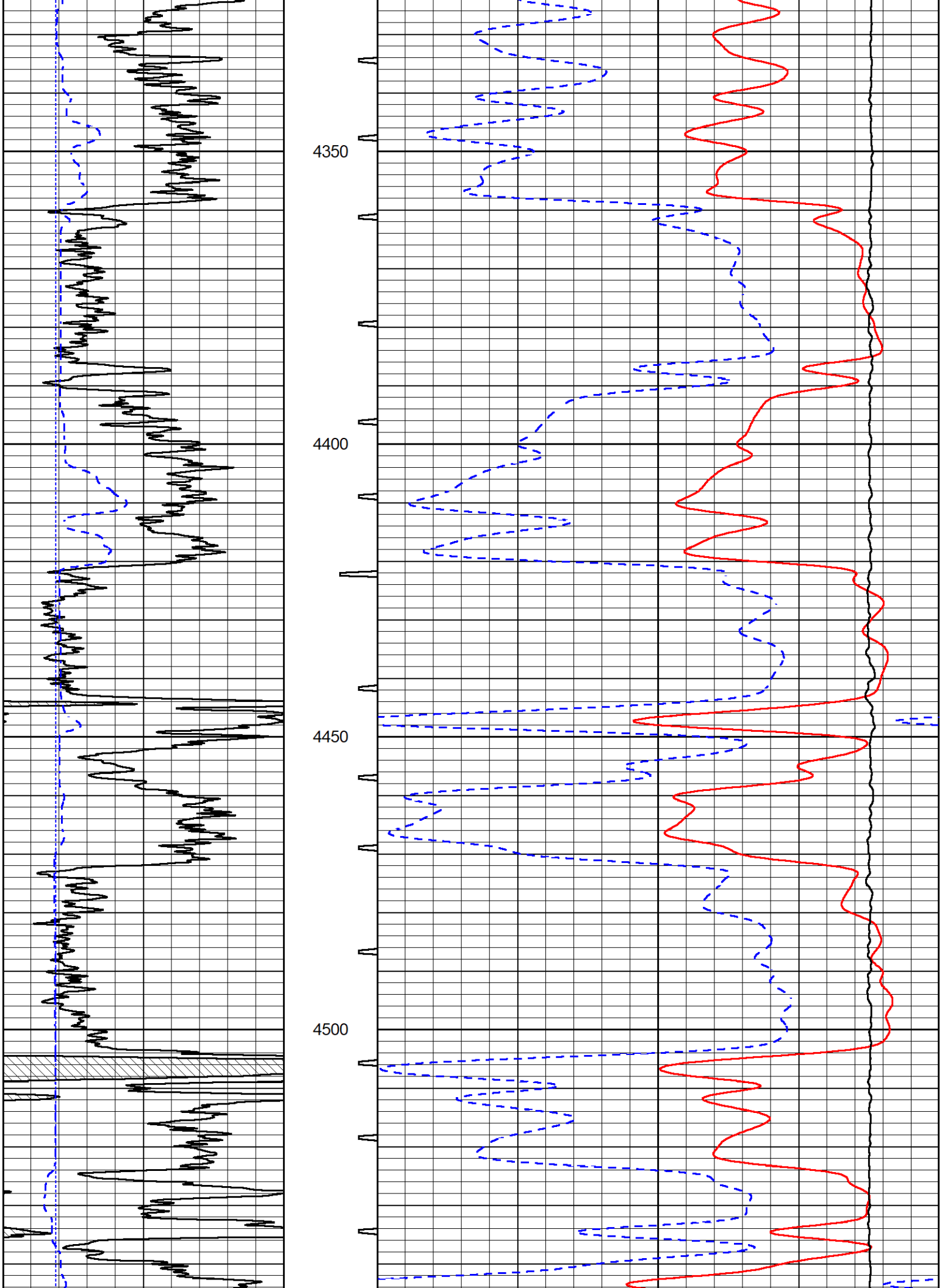
REPEAT SECTION

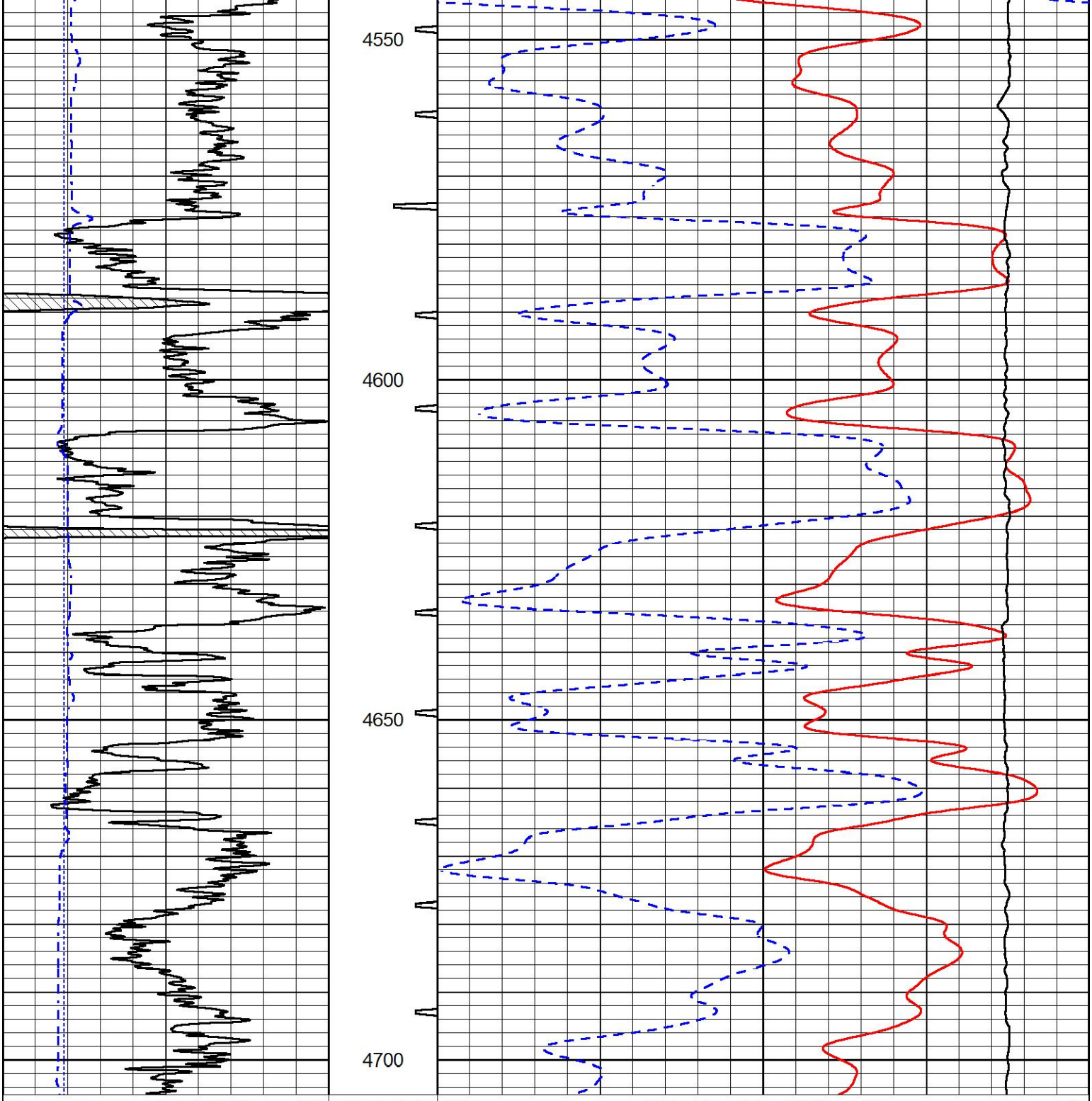
REPEAT PASS

Database File	murfin_cwa g 1-8.db
Dataset Pathname	stkml/pass2.1
Presentation Format	_sonic
Dataset Creation	Fri Nov 05 08:57:17 2021
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu)	-10
6	Caliper (in)	16		15000	Line Tension (lb)	0




4350
4400
4450
4500



0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu)	-10
6	Caliper (in)	16		15000	Line Tension (lb)	0

MIDWEST WIRELINE

Company	Murfin Drilling Company, Inc.
Well	CWA 'G' #1-8
Field	
County	Cheyenne
State	Kansas