MIDWEST WIRELINE

BOREHOLE COMPENSATED SONIC LOG

Company Mull Drilling Company, Inc.
Well Johnson Farms #2-17
Field Spivey-Grabs-Basil
County Kingman State Kansas
Location: API #: 15-095-22345-00-00
1724 FNL & 693 FWL
SEC 17 TWP 30S RGE 7W

Other Services
CNL/CDL
DIL/MEL

Elevation
K.B. 1479
D.F.
G.L. 1466

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	1466

Company	Mull Drilling Company, Inc.
Well	Johnson Farms #2-17
Field	Spivey-Grabs-Basil
County	Kingman
State	Kansas

Date	7/29/2022
Run Number	Two
Type Log	BHCS
Depth Driller	4400
Depth Logger	4399
Bottom Logged Interval	4387
Top Logged Interval	200
Type Fluid In Hole	Chemical
Salinity, PPM CL	5000
Density	9.2
Level	Full
Max. Rec. Temp. F	120
Operating Rig Time	5 Hours
Equipment -- Location	P-108 | HAYS
Recorded By	D. Schmidt
Witnessed By	Rusty Mourning

Borehole Record

Run No.	Bit	From	To
One	12.25	0	226
Two	7.875	226	TD

Casing Record

Size	Wgt.	From	To
8.625	23	0	226

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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.

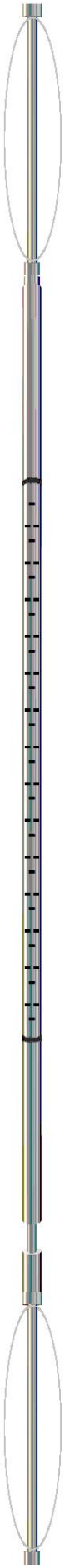
Spivey,
South to 150th, 2 East,
North into

Log Measured From: Kelly Bushing 13 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: Rusty Mourning
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	4.25	3.00	70.00
WVF4	12.50					
WVF1	12.50		SLT-PENGO (602)	15.92	3.50	300.00
WVF3	10.50					
WVF2	10.50					
			CENT-PENGO	4.25	3.00	70.00

Dataset:	mull_johnson farms 2-17.db: field/well/son/pass2
Total length:	24.42 ft
Total weight:	440.00 lb
O.D.:	3.50 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\mull_johnson farms 2-17.db
Dataset field/well/stkml/pass3.11/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	120	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	510	80	Off	4399

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

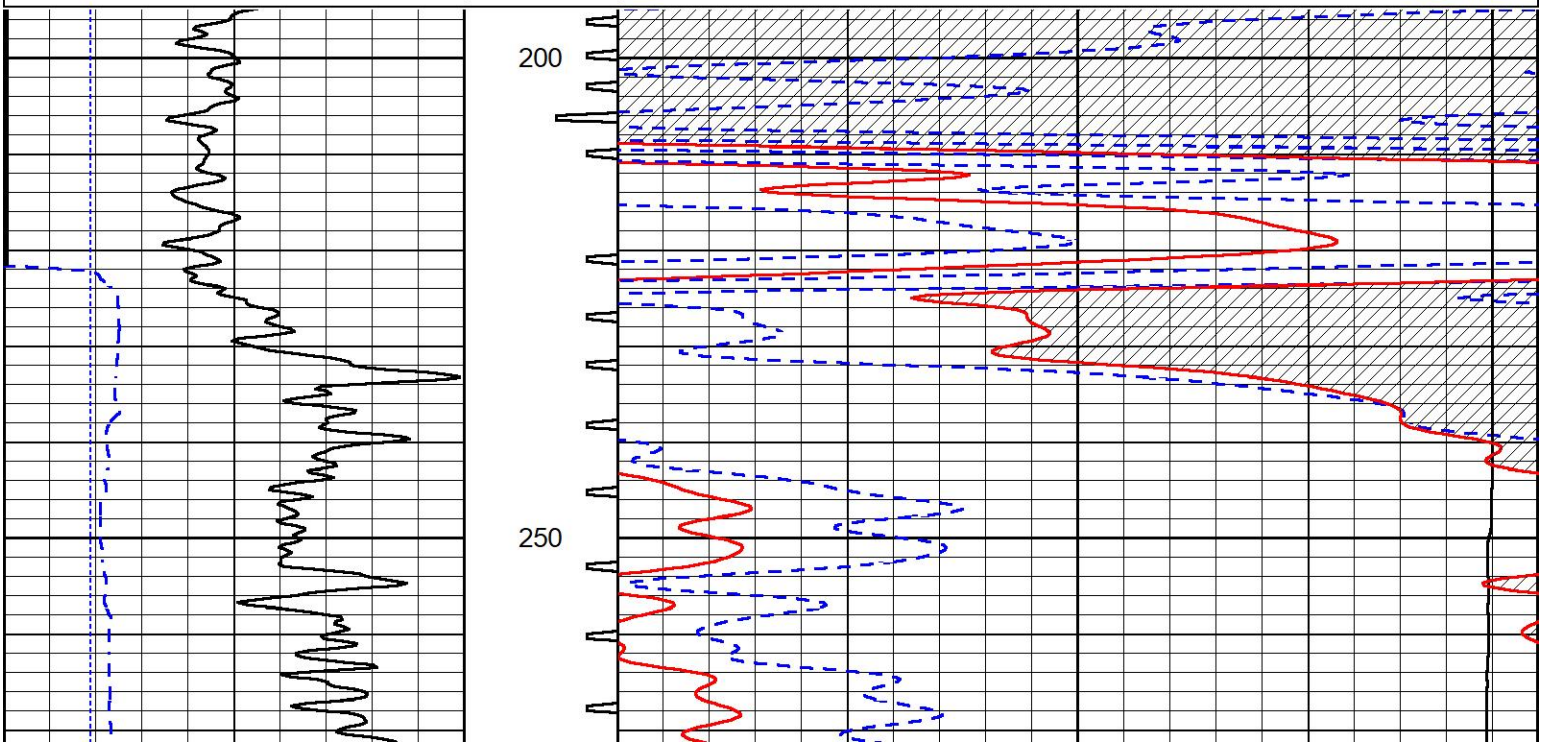
MIDWEST WIRELINE

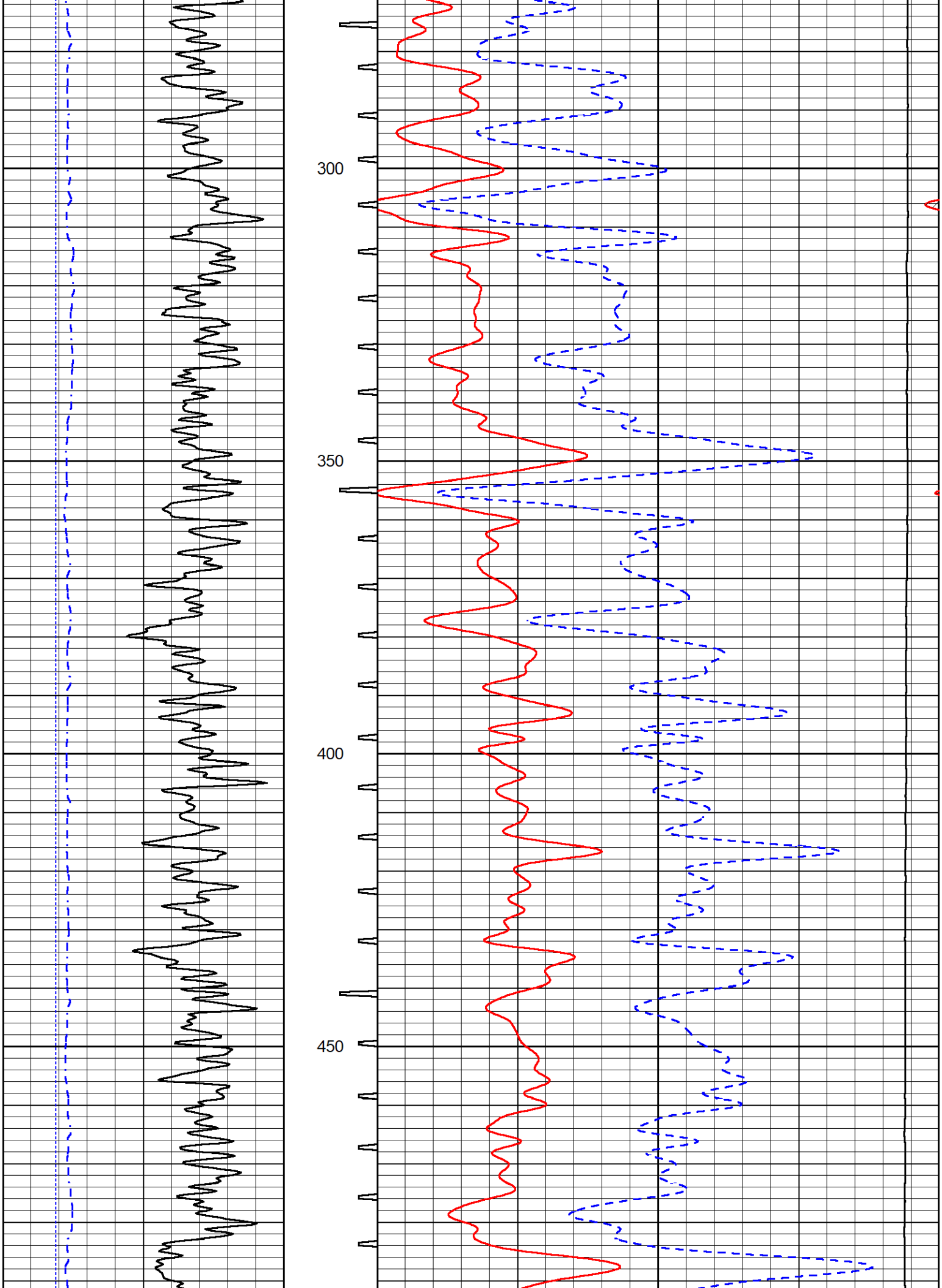
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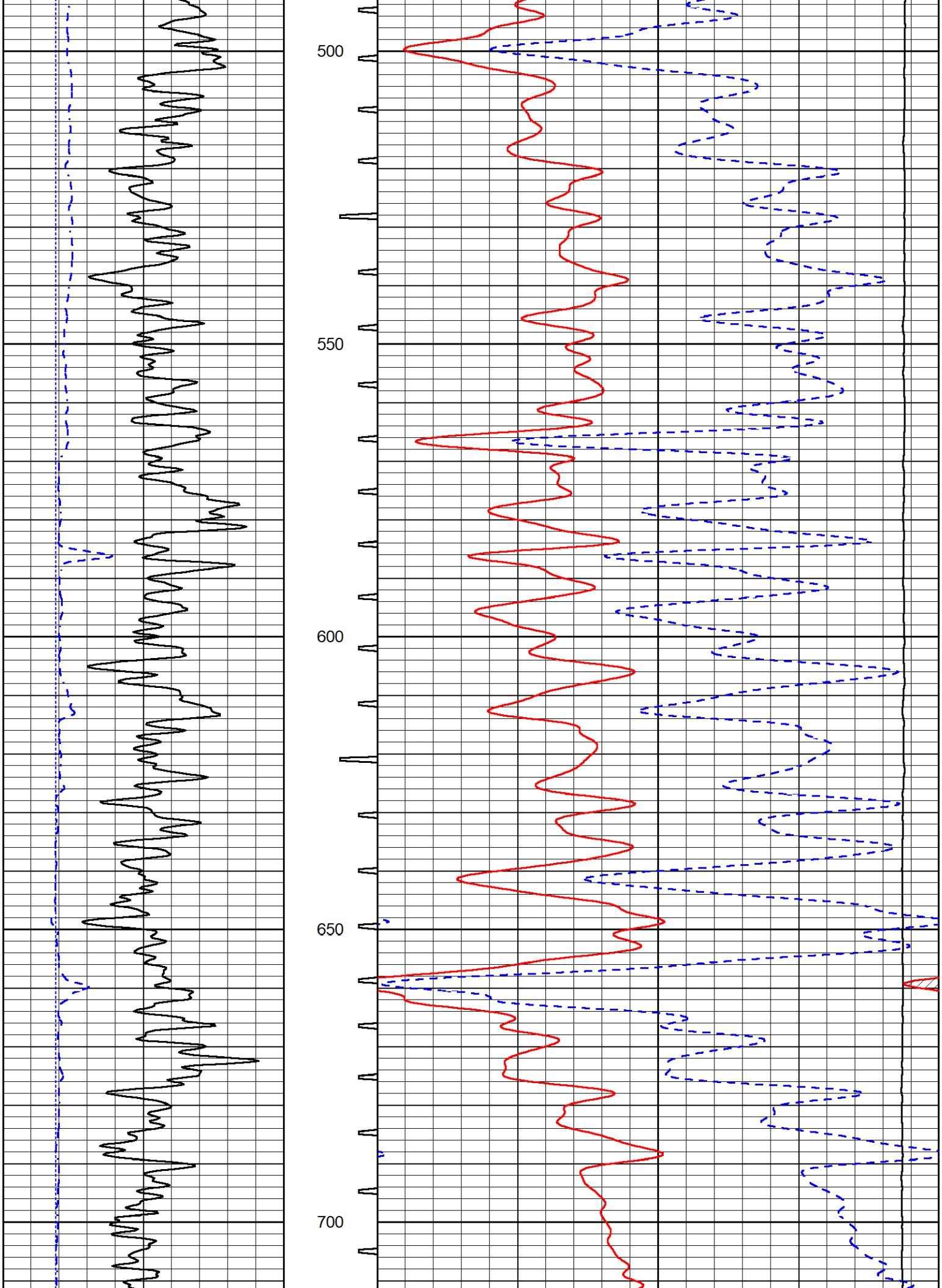
MAIN PASS

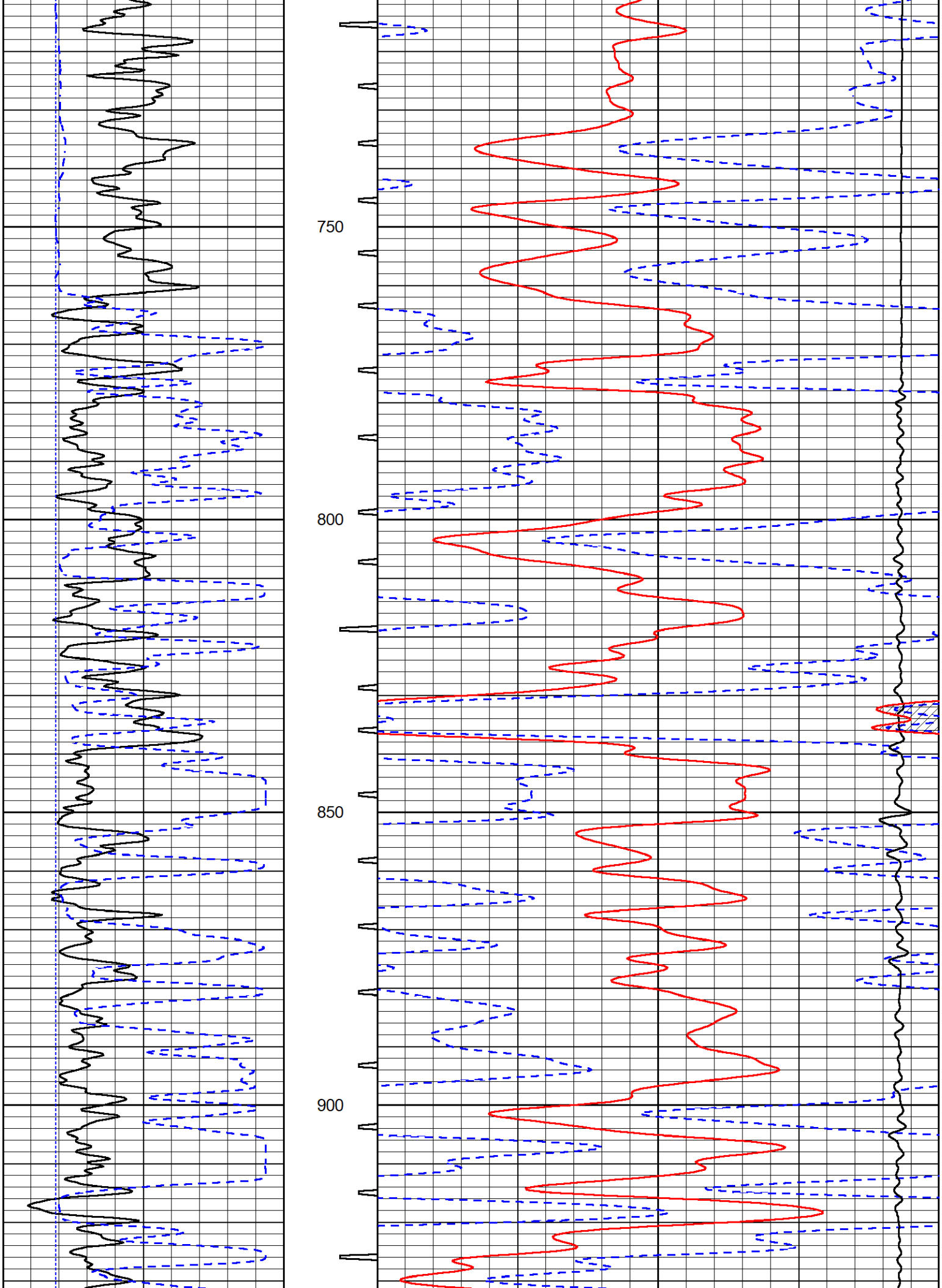
Database File	mull_johnson farms 2-17.db
Dataset Pathname	stkml/pass3.1
Presentation Format	_sonic
Dataset Creation	Fri Jul 29 11:11:57 2022
Charted by	Depth in Feet scaled 1:240

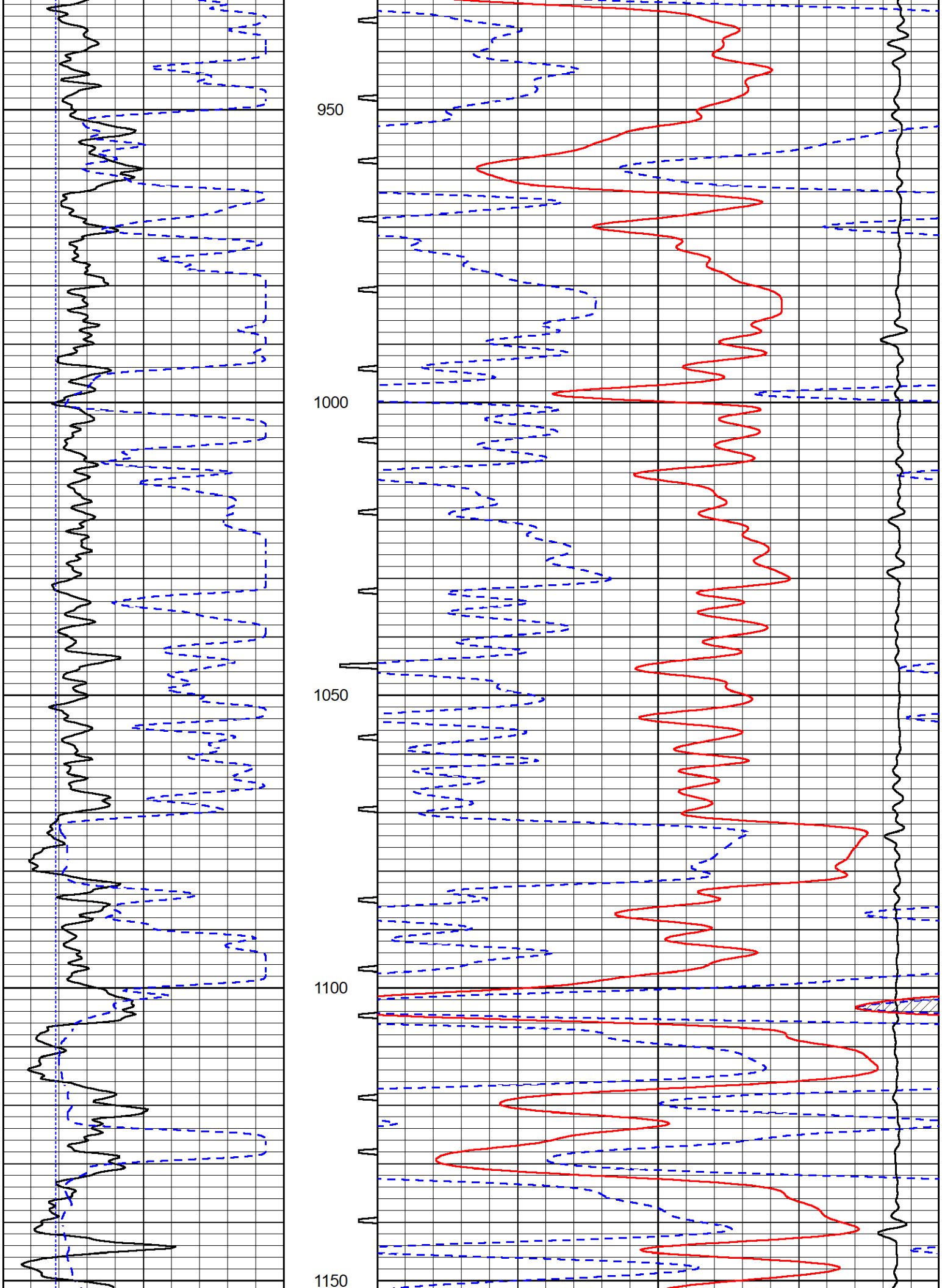
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft) 40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu) -10
6	Caliper (in)	16		15000	Line Tension (lb) 0

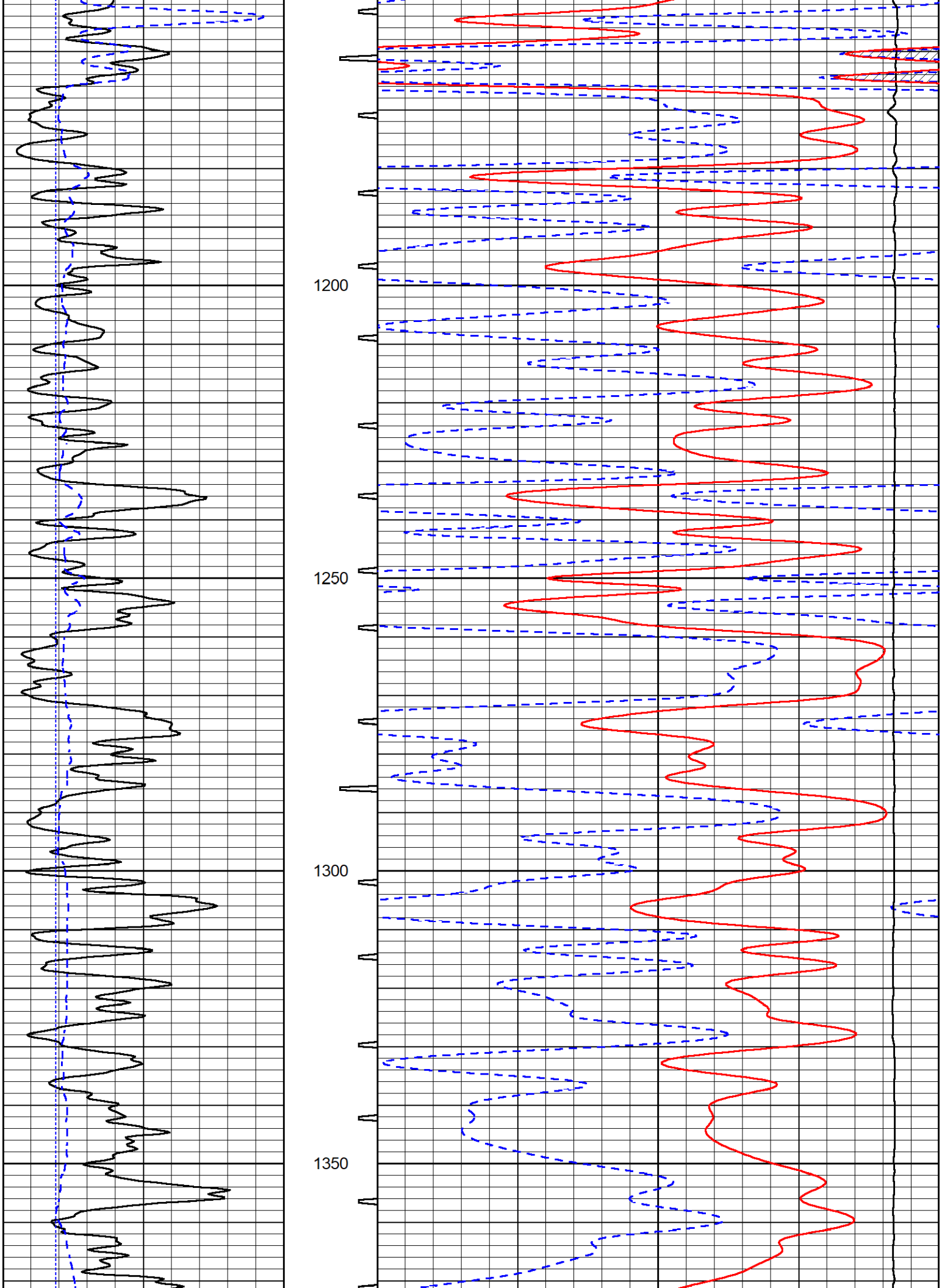


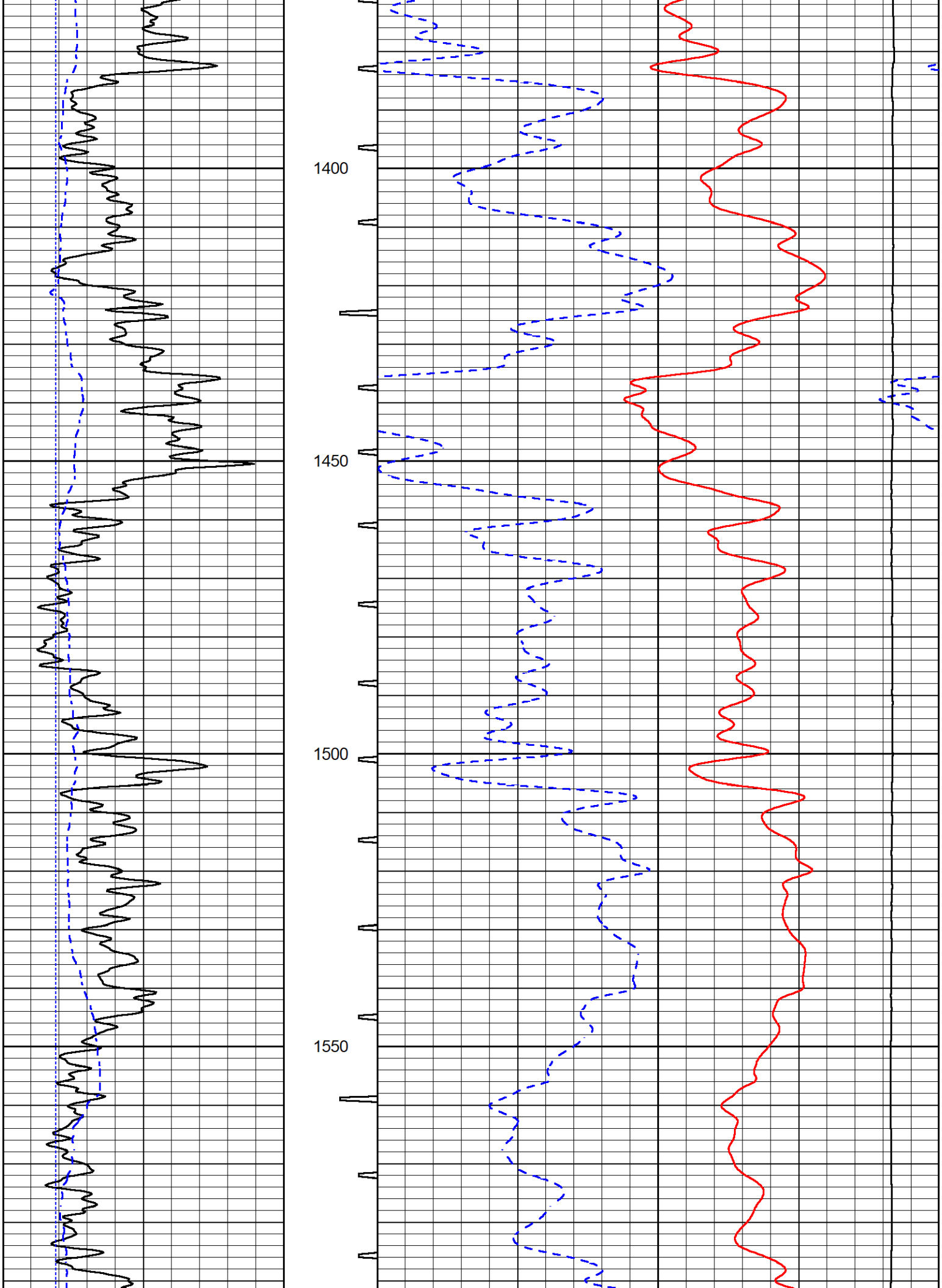

300
350
400
450

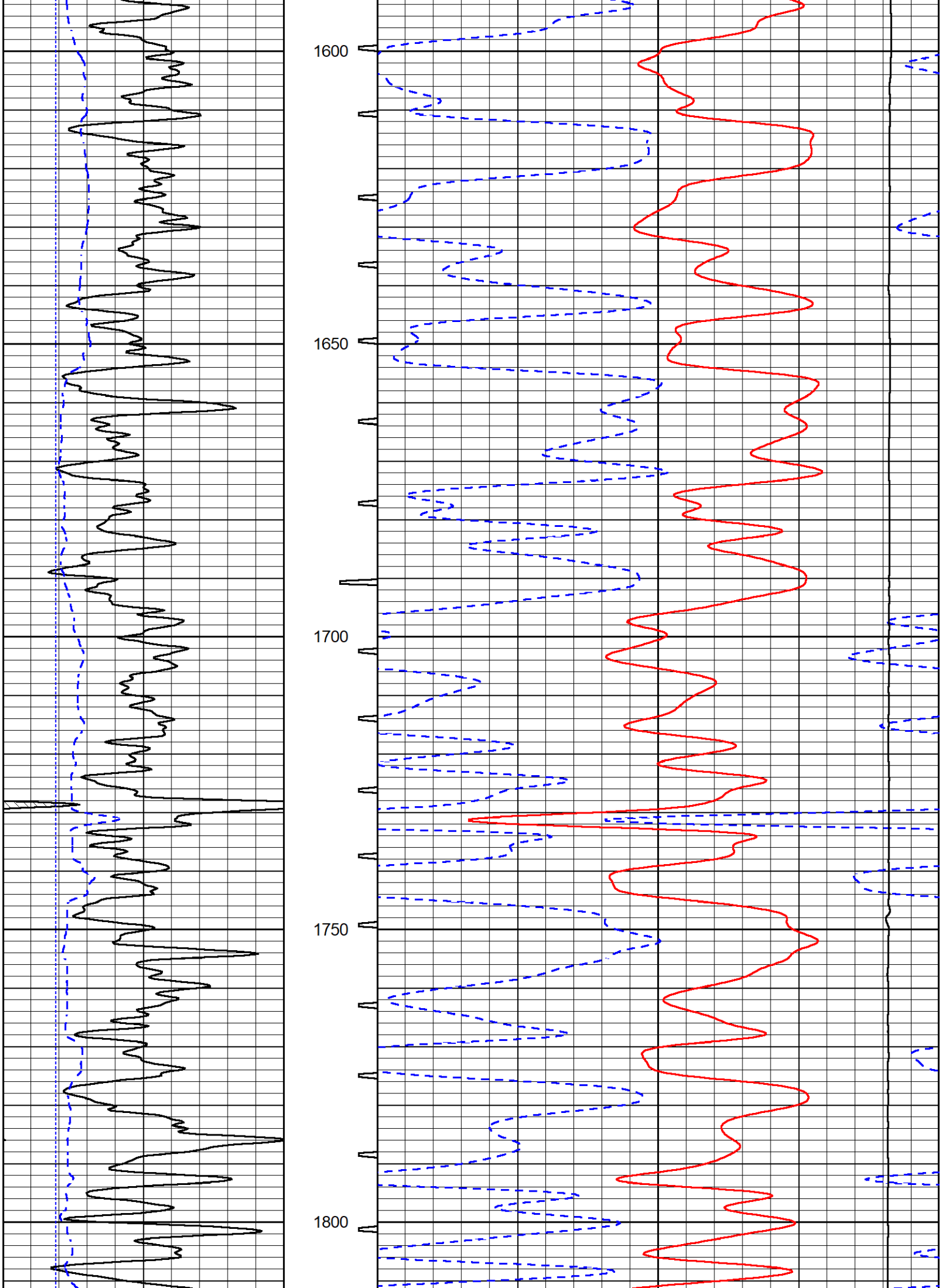

500
550
600
650
700

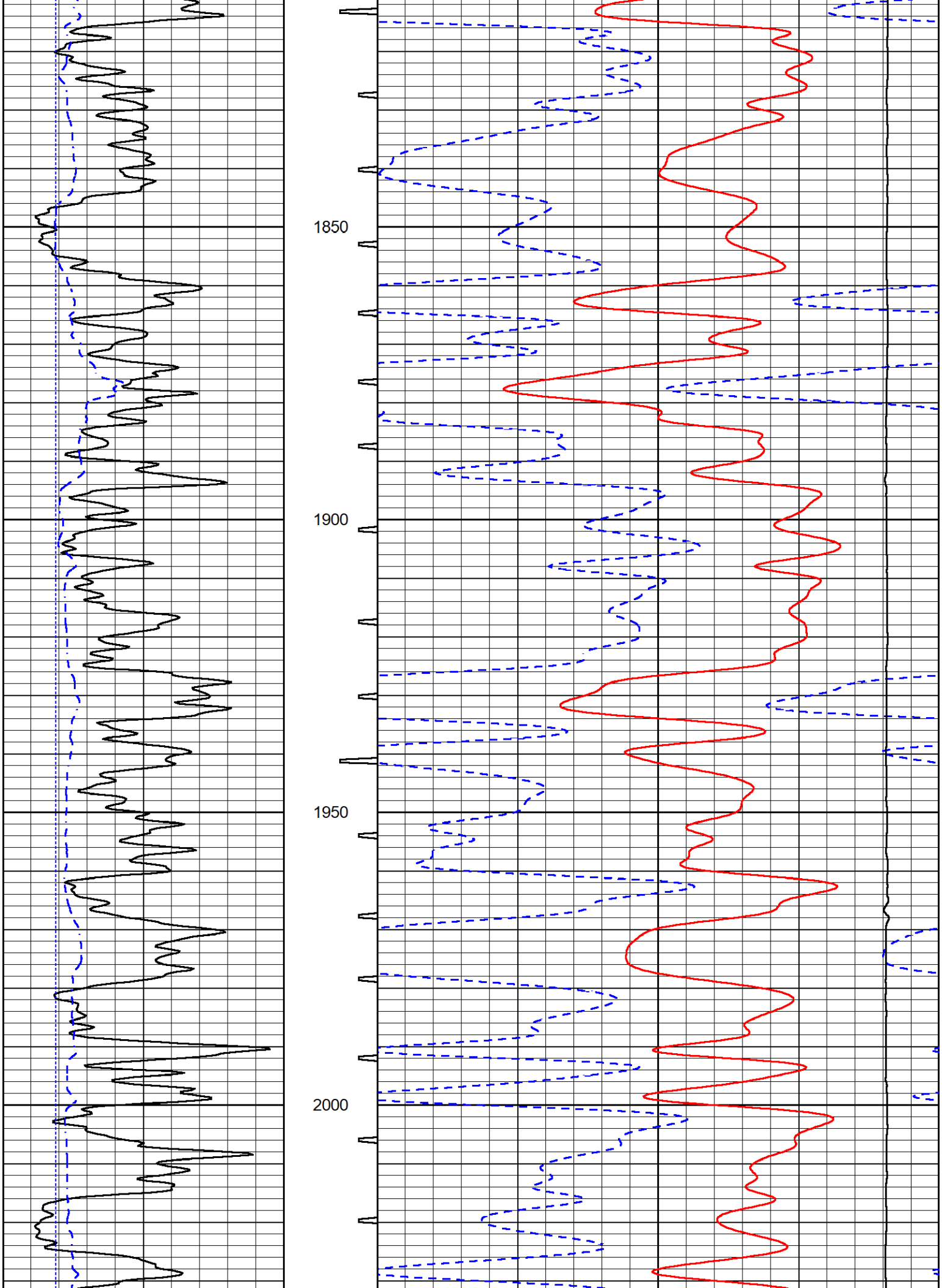

750
800
850
900

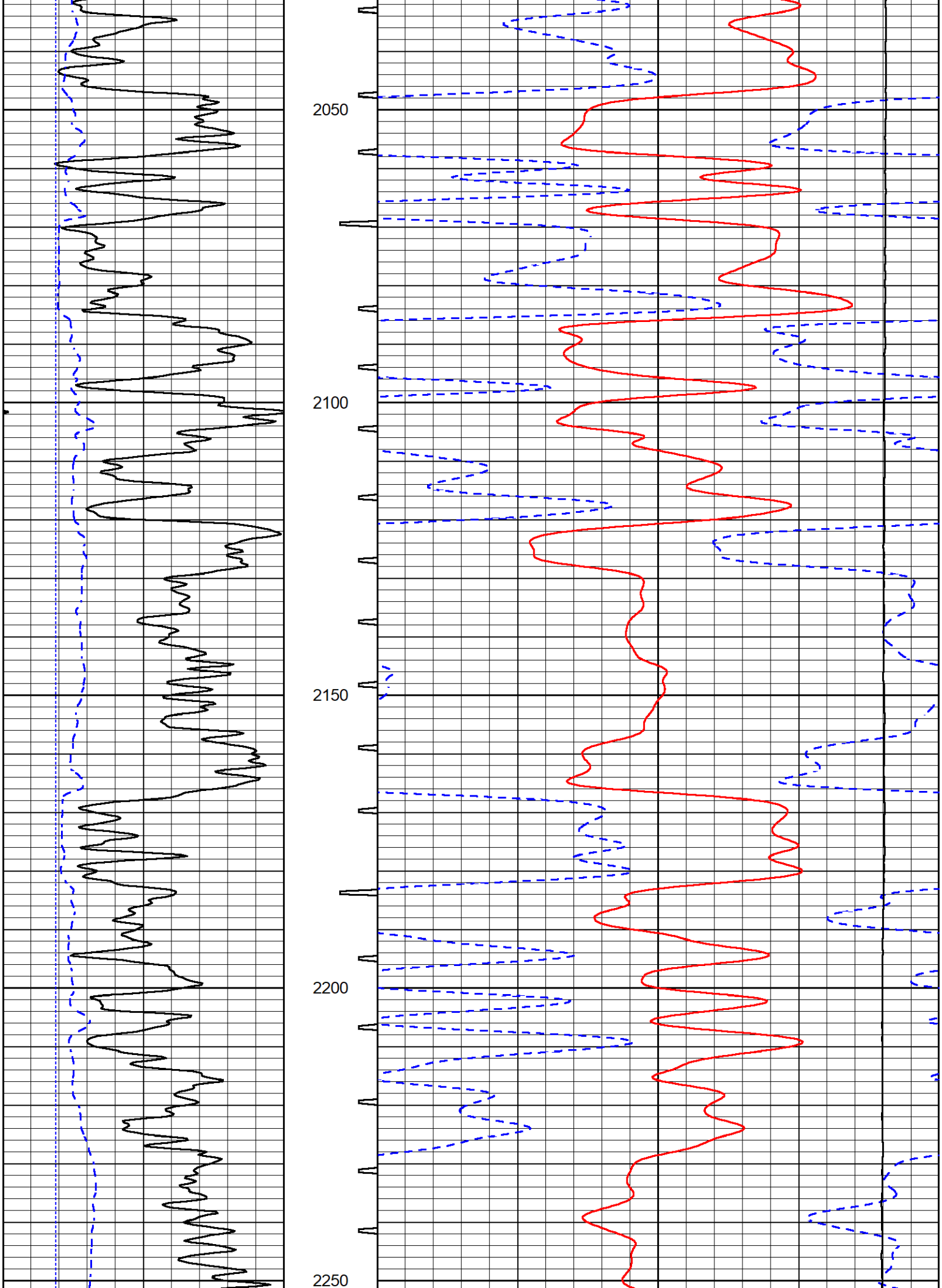

950
1000
1050
1100
1150

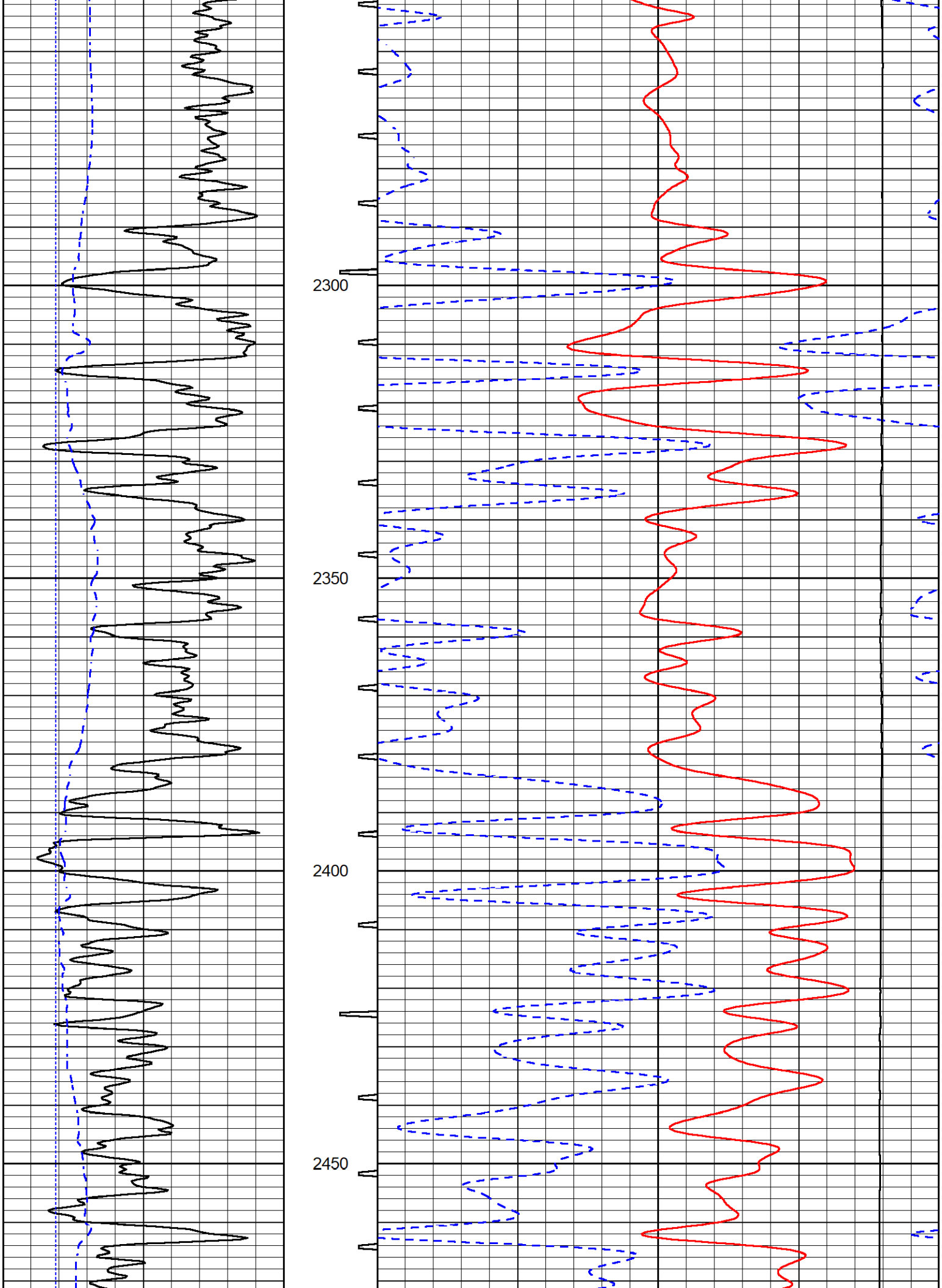

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1250
1300
1350

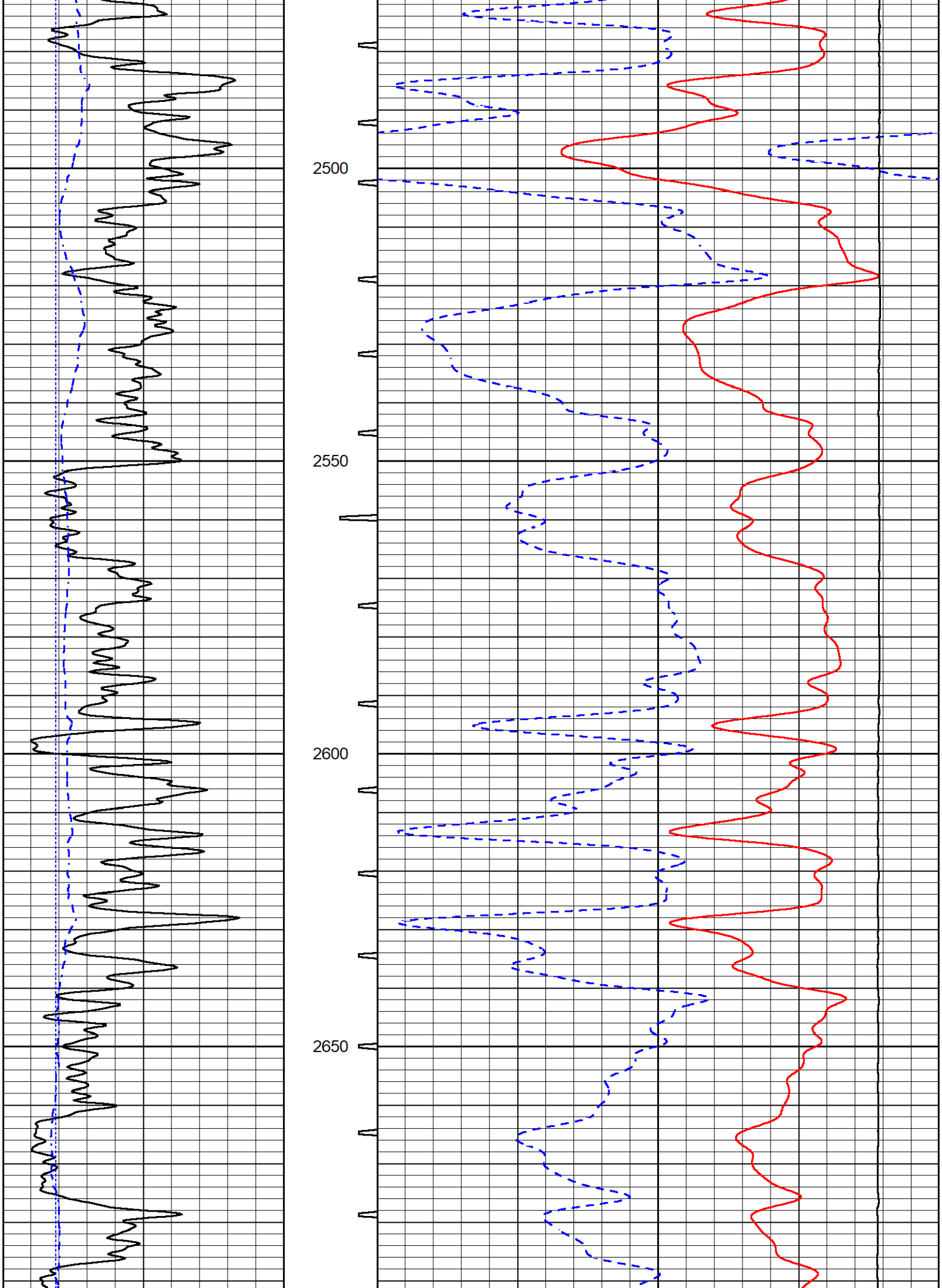

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1450
1500
1550

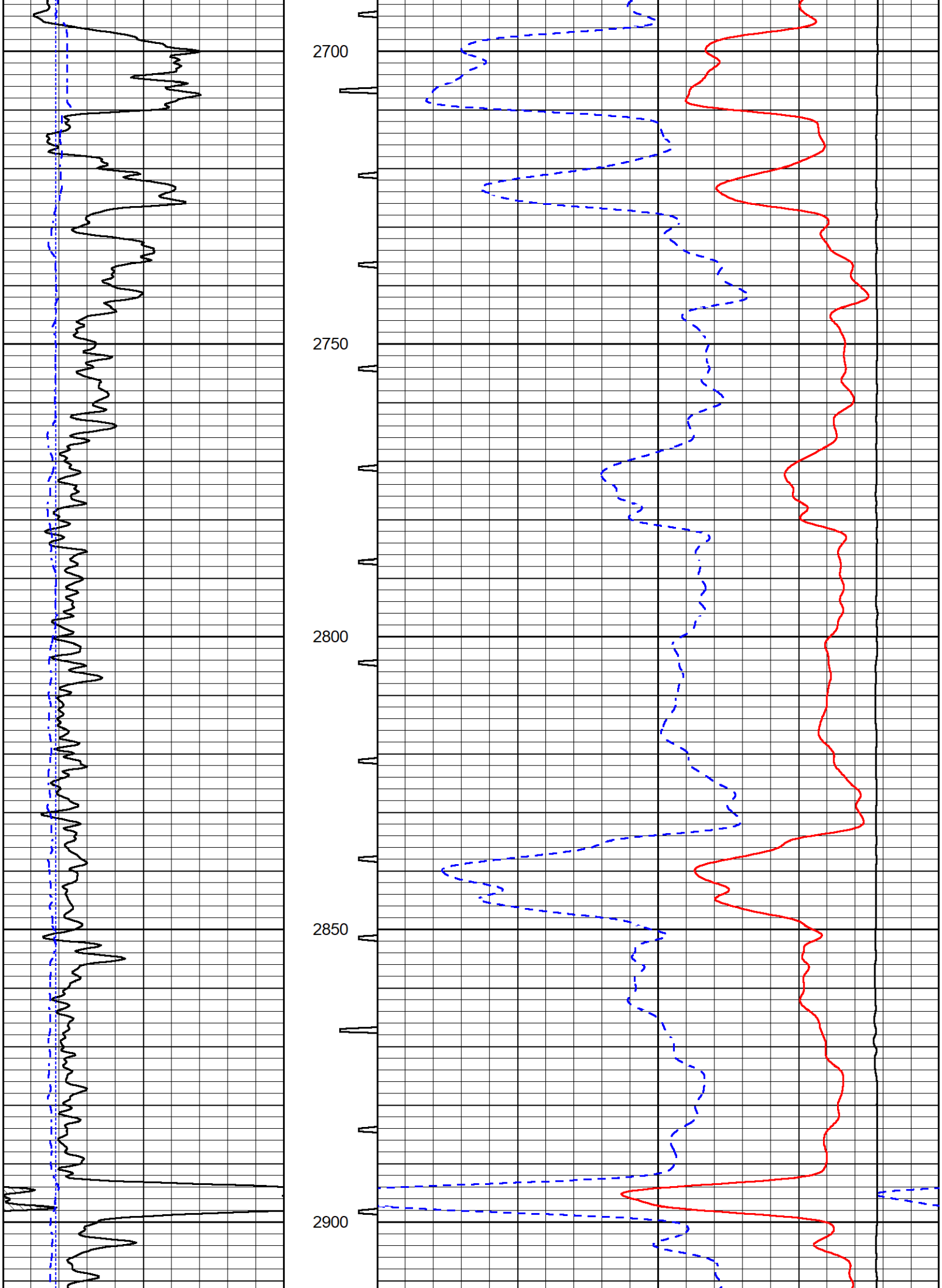

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1650
1700
1750
1800

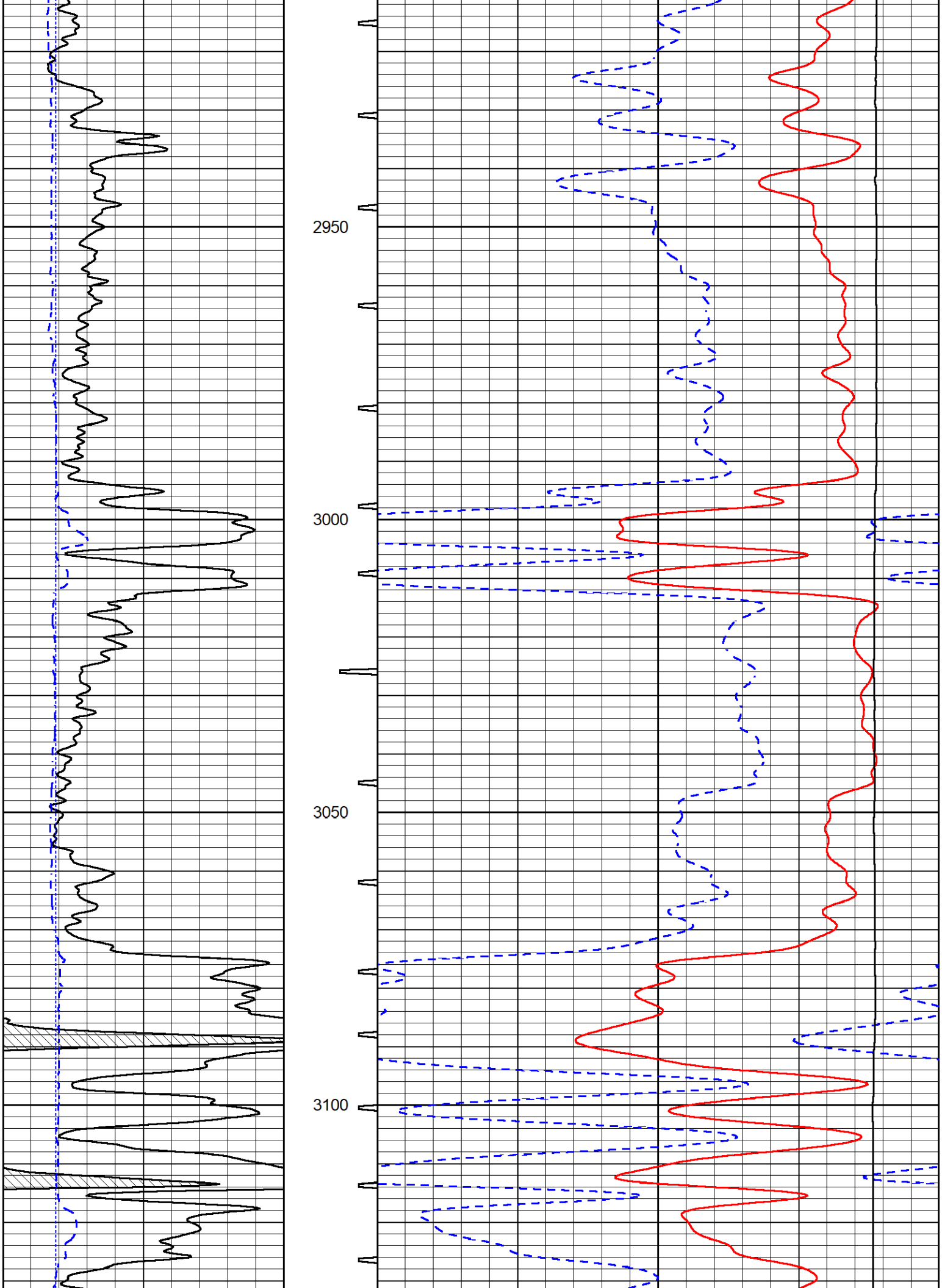

1850
1900
1950
2000

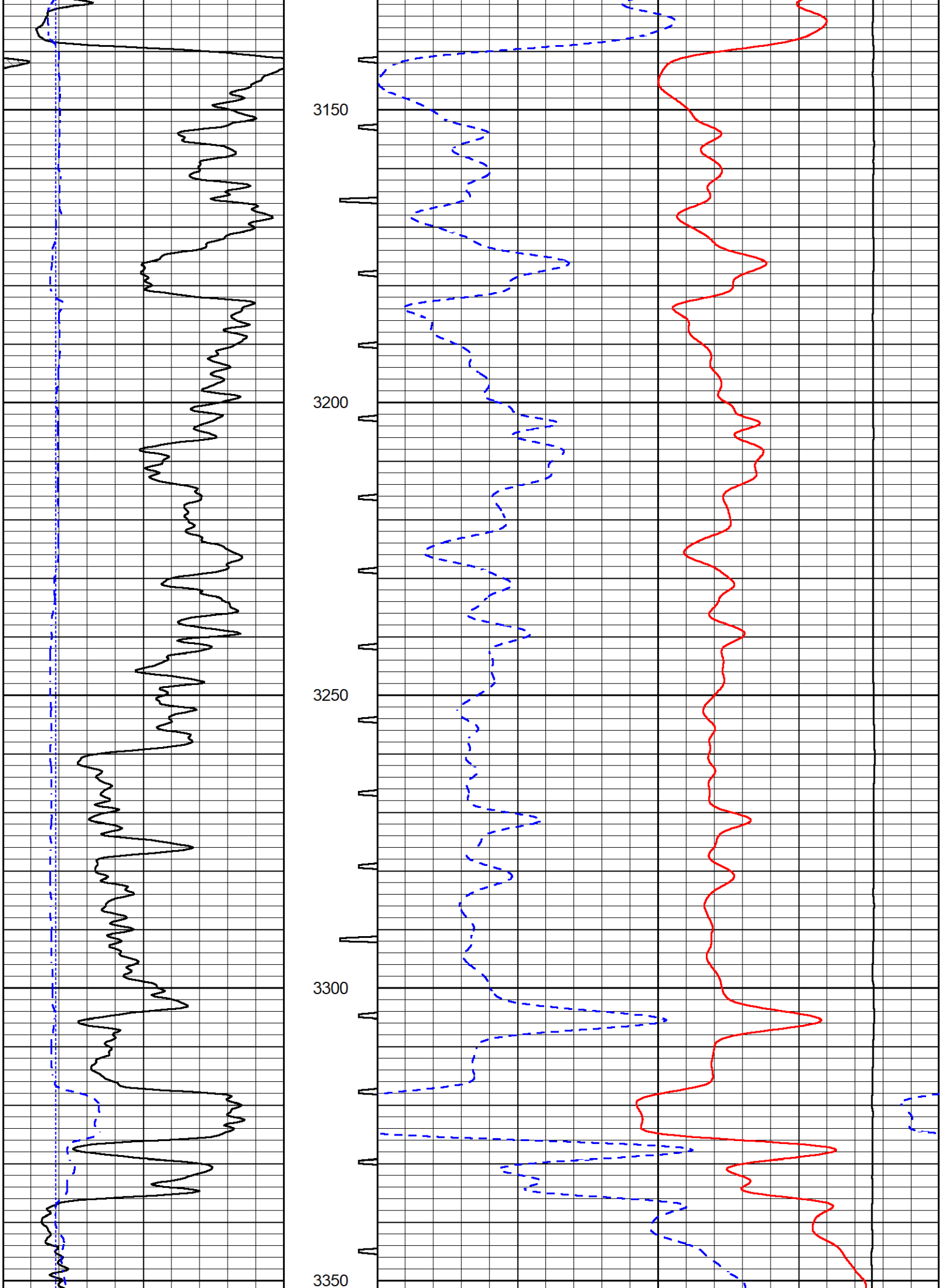

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2200
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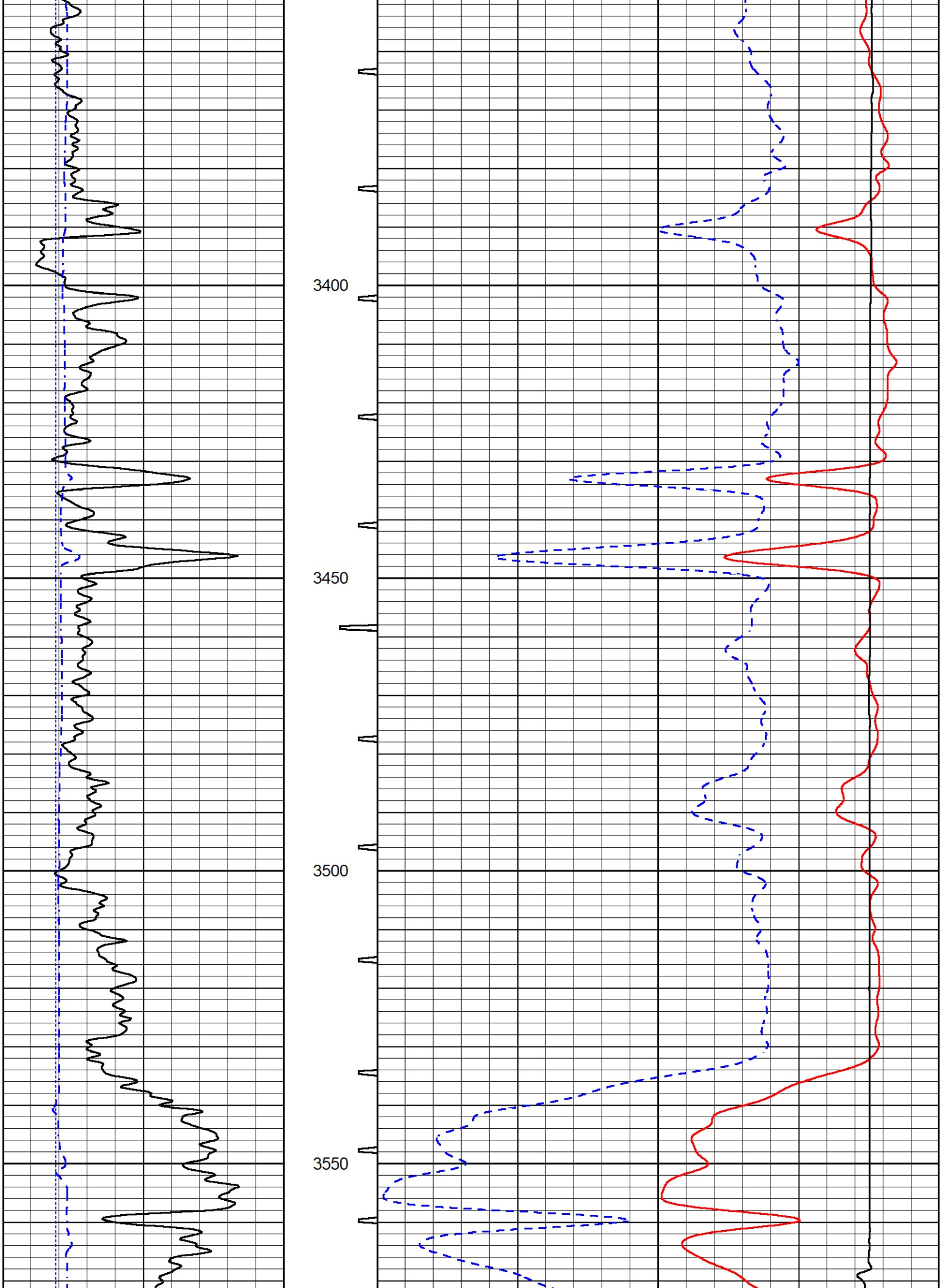

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2400
2450

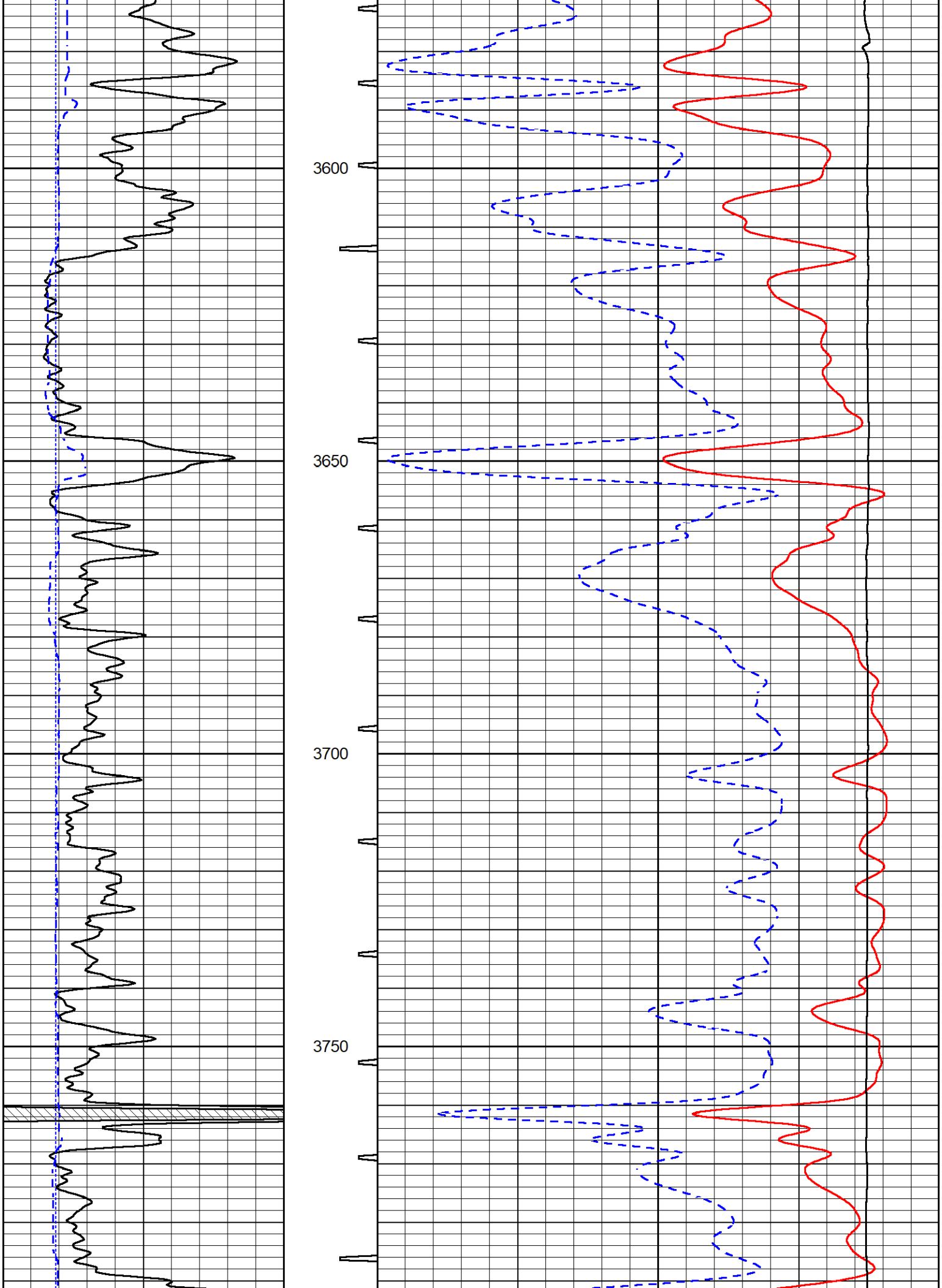

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2550
2600
2650

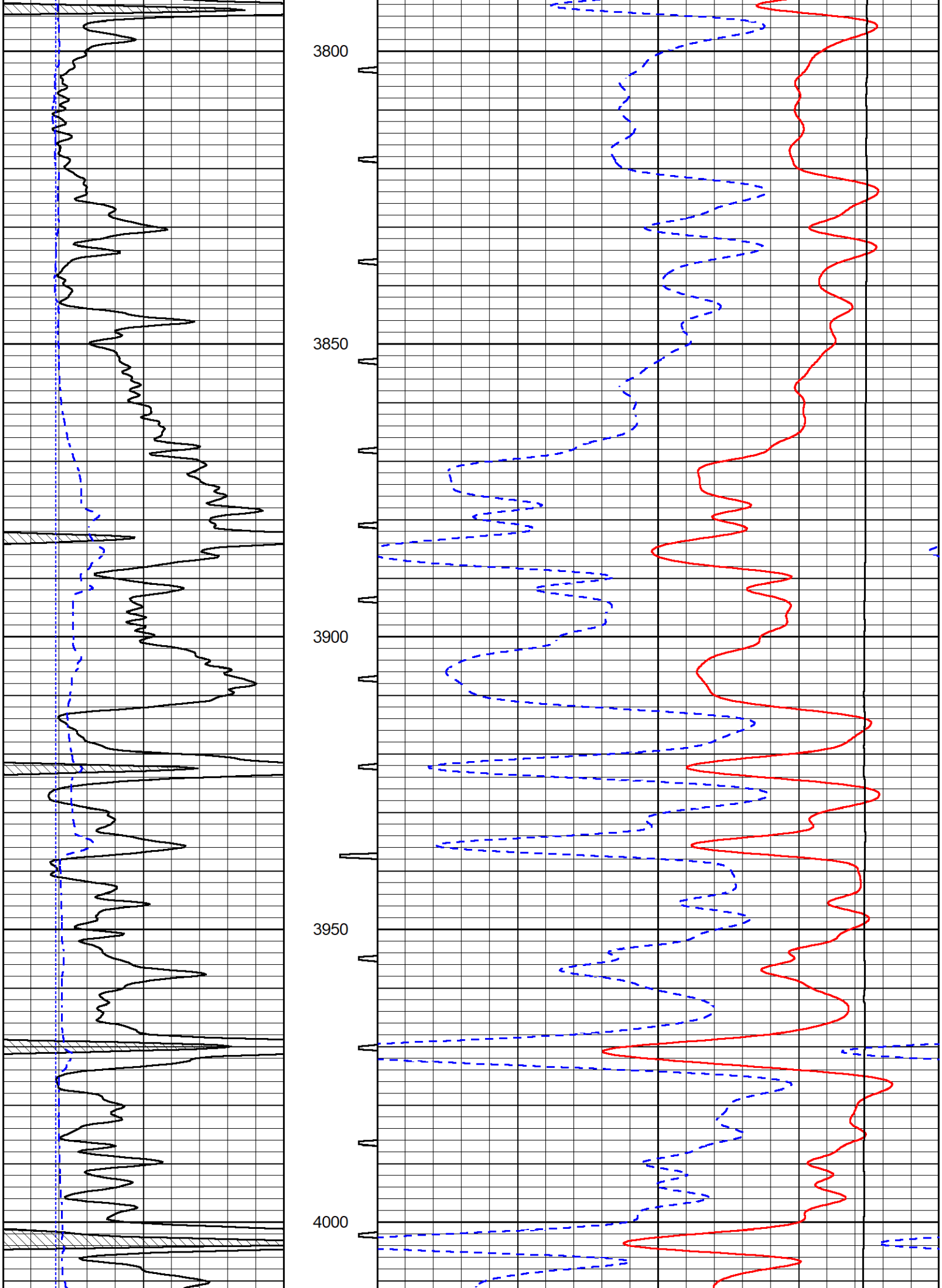

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2800
2850
2900

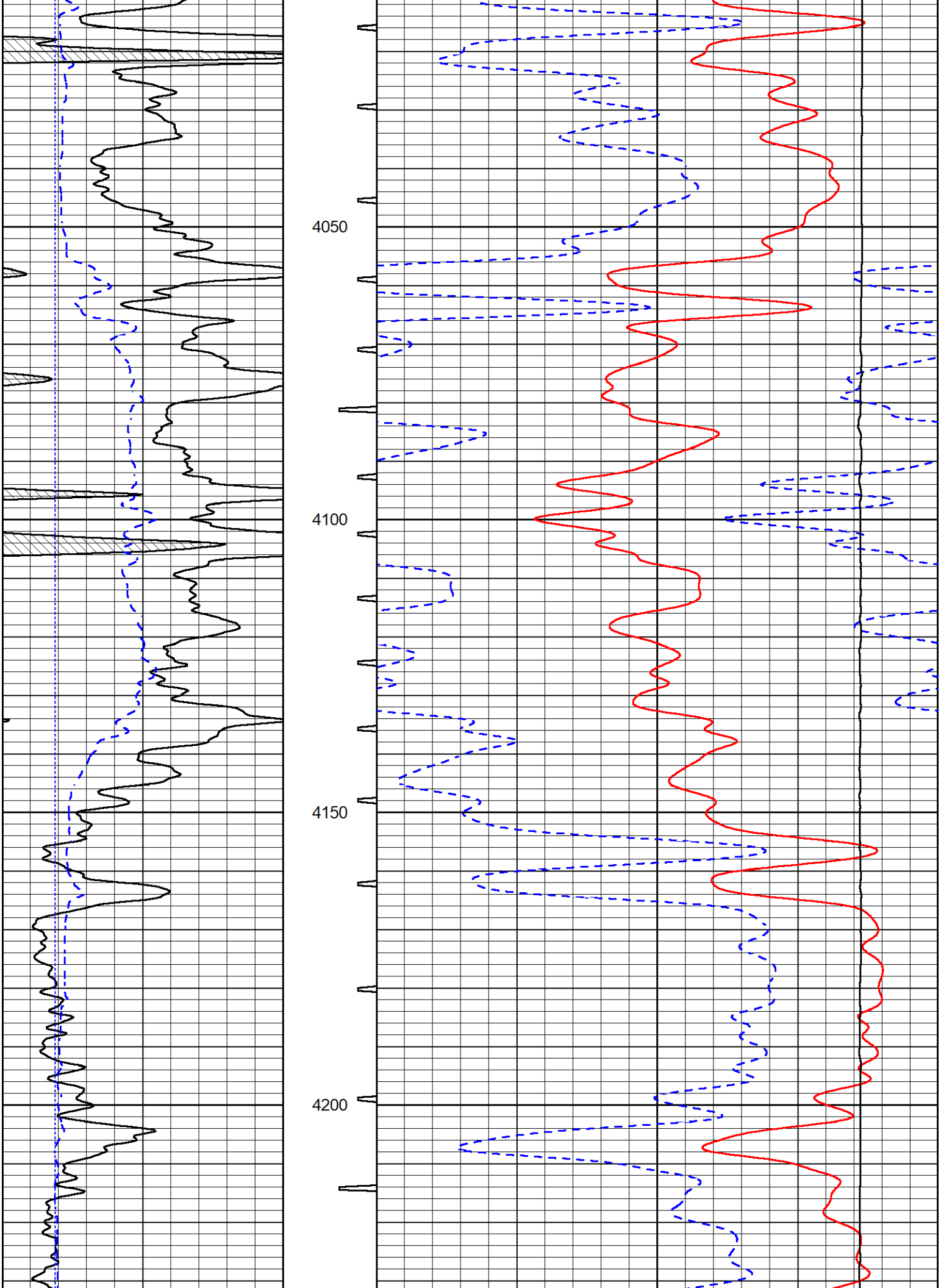

2950
3000
3050
3100

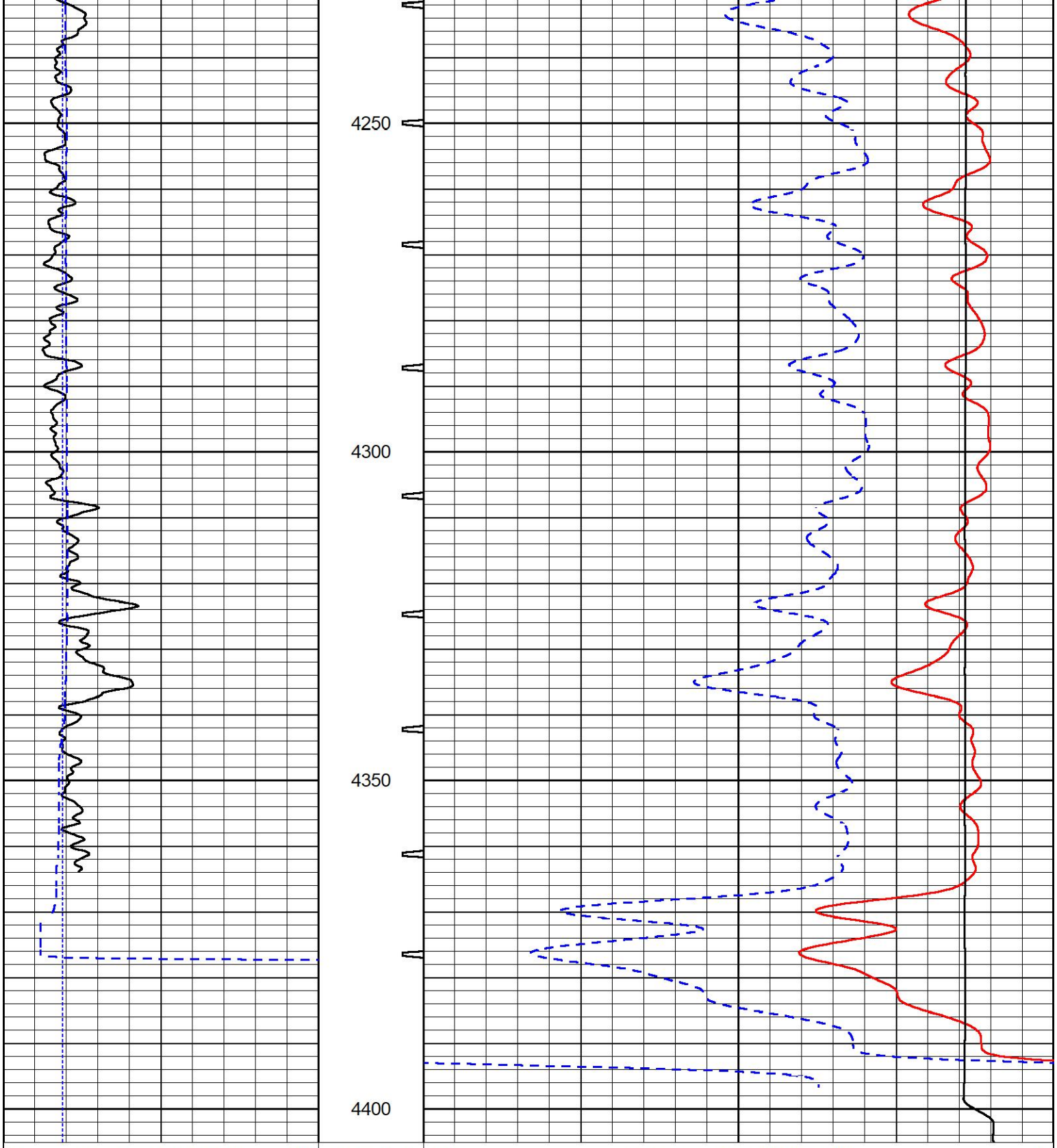

3150
3200
3250
3300
3350


3400
3450
3500
3550


3600
3650
3700
3750


3800
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3900
3950
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4050
4100
4150
4200



MIDWEST WIRELINE

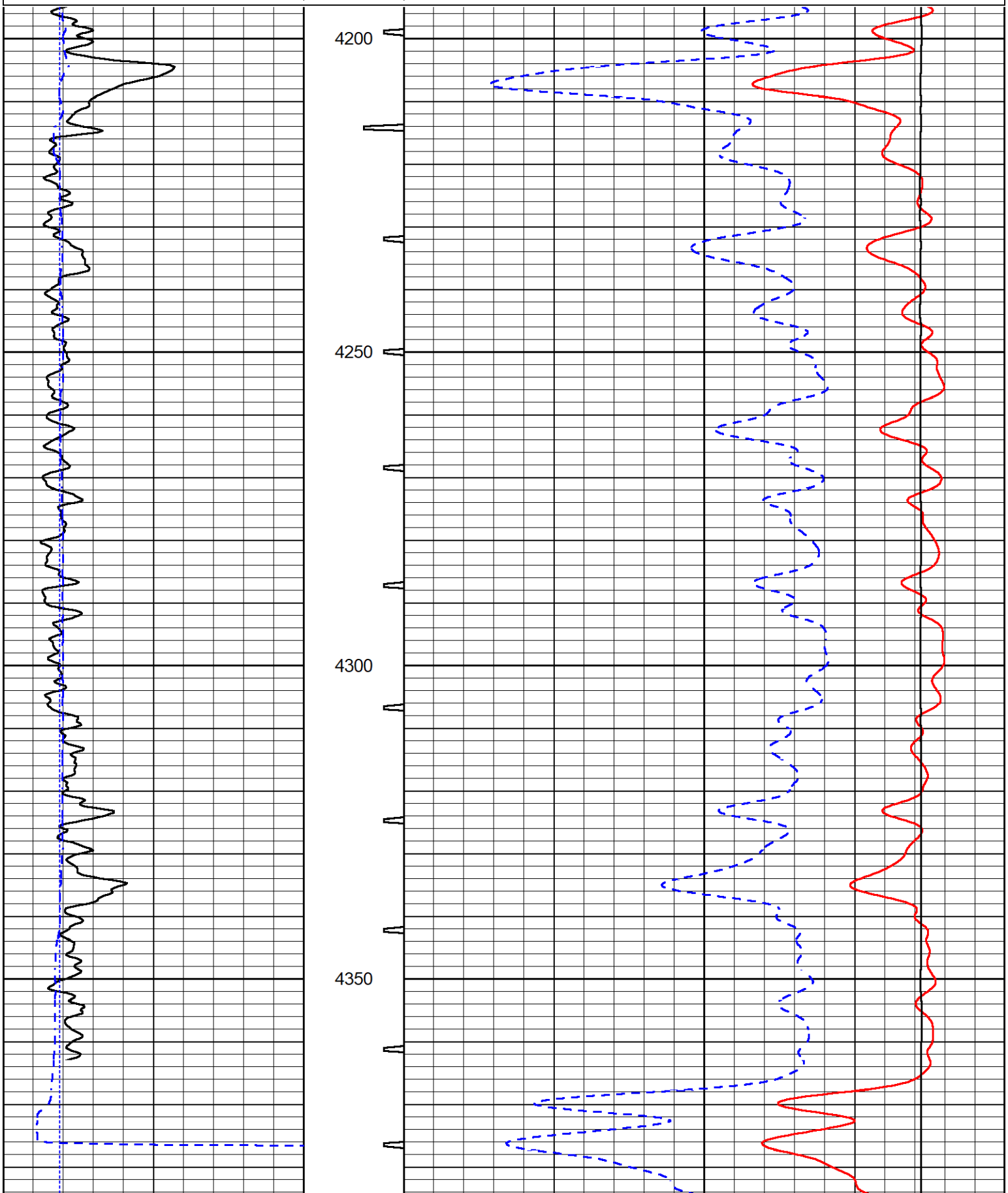
REPEAT SECTION

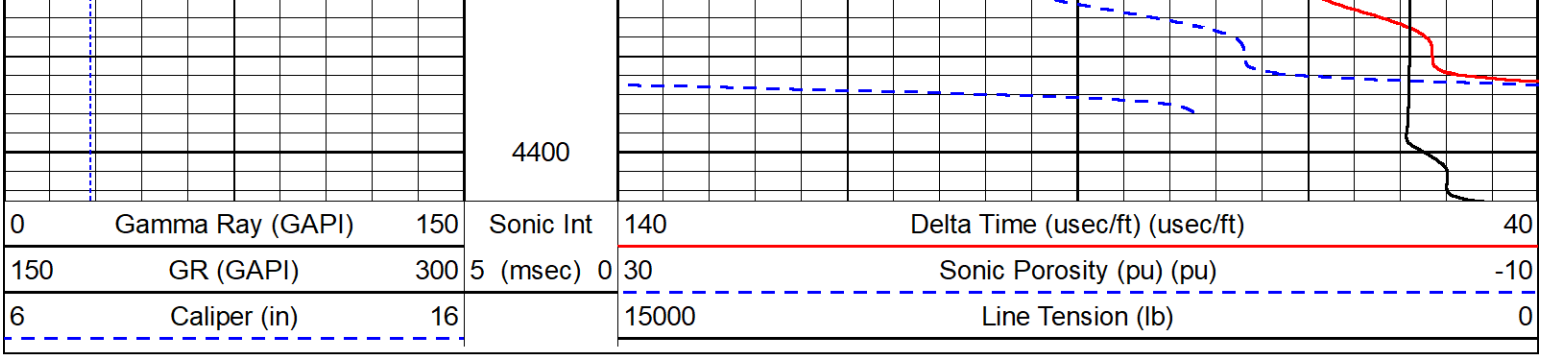
REPEAT PASS

Database File	mull_johnson farms 2-17.db

Dataset Pathname	stkml/pass2
Presentation Format	_sonic
Dataset Creation	Fri Jul 29 09:37:25 2022
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





Calibration Report

Database File	mull_johnson farms 2-17.db
Dataset Pathname	stkml/pass3.11
Dataset Creation	Fri Jul 29 10:14:32 2022

Dual Induction Calibration Report

Serial-Model:	504 HT-M&W
Surface Cal Performed:	Wed Jun 29 12:51:29 2022

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-16.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.000

Microlog Calibration Report

Serial-Model:	401-PSI STKBL ML
Performed:	Sat Jul 16 16:13:48 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	25000.0000	-2.2000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	18700.0000	-0.7000
Caliper	1.0049	1.0846	5.5000	20.0000	in	90.0000	-84.8000

Compensated Density Calibration Report

Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps

Spine Angle = 73.06

Density/Spine Ratio = 0.515

	Size		Reading
Small Ring	4.00	in	1.17
Large Ring	14.00	in	1.04

Compensated Neutron Calibration Report

Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 2021

Master Calibration

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number:	103	
Tool Model:	M&W	
Performed:	Fri Dec 3 12:13:24 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps

MIDWEST WIRELINE

Company	Mull Drilling Company, Inc.
Well	Johnson Farms #2-17
Field	Spivey-Grabs-Basil
County	Kingman
State	Kansas