MIDWEST WIRELINE

BOREHOLE COMPENSATED SONIC LOG

Company Murfin Drilling Company, Inc.
Well P&P Unit #1-35
Field
County Decatur State Kansas
Location: API # : 15-039-21287-00-00
S2 SW SW SE
200 FSL & 2310 FEL
SEC 35 TWP 5S RGE 29W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 2826
D.F.
G.L. 2821

Permanent Datum Ground Level Elevation 2821
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Company Murfin Drilling Company, Inc.
Well P&P Unit #1-35
Field
County Decatur State Kansas
Location: API # : 15-039-21287-00-00
S2 SW SW SE
200 FSL & 2310 FEL
SEC 35 TWP 5S RGE 29W

Date	8/11/2022							
Run Number	Two							
Type Log	BHCS							
Depth Driller	4200							
Depth Logger	4199							
Bottom Logged Interval	4187							
Top Logged Interval	300							
Type Fluid In Hole	Chemical							
Salinity, PPM CL	1800							
Density	9.2							
Level	Full							
Max. Rec. Temp. F	118							
Operating Rig Time	5 Hours							
Equipment -- Location	Hays							
Recorded By	T. Martin							
Witnessed By	Robert Hendrix							

Borehole Record

Run No.	Bit	From	To
One	12.25	00	308
Two	7.875	308	TD

Casing Record

Size	Wgt.	From	To
8.625	23	00	308

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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.

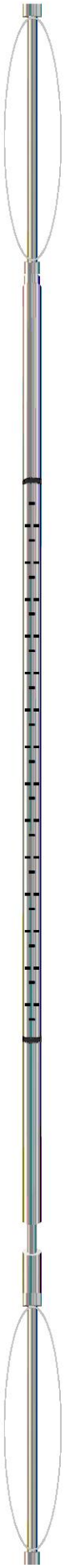
Selden, NE to 83 N, 1 N, 1/2 W, N into

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: T. Martin	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)	4.25	3.00	70.00
WVF4	12.25		SLT-PENGO (601) 3 1/2 BHC Sonic	16.00	3.50	300.00
WVF1	12.25					
WVF3	10.25					
WVF2	10.25					
			CENT-PENGO (4-PENGO)	4.25	3.00	70.00

Dataset: murfin_p&p unit #1-35.db: field/well/Sonic/pass2
Total length: 24.50 ft
Total weight: 440.00 lb
O.D.: 3.50 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_p&p unit #1-35.db
Dataset field/well/StkMl/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	118	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	180	75	Off	4199

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

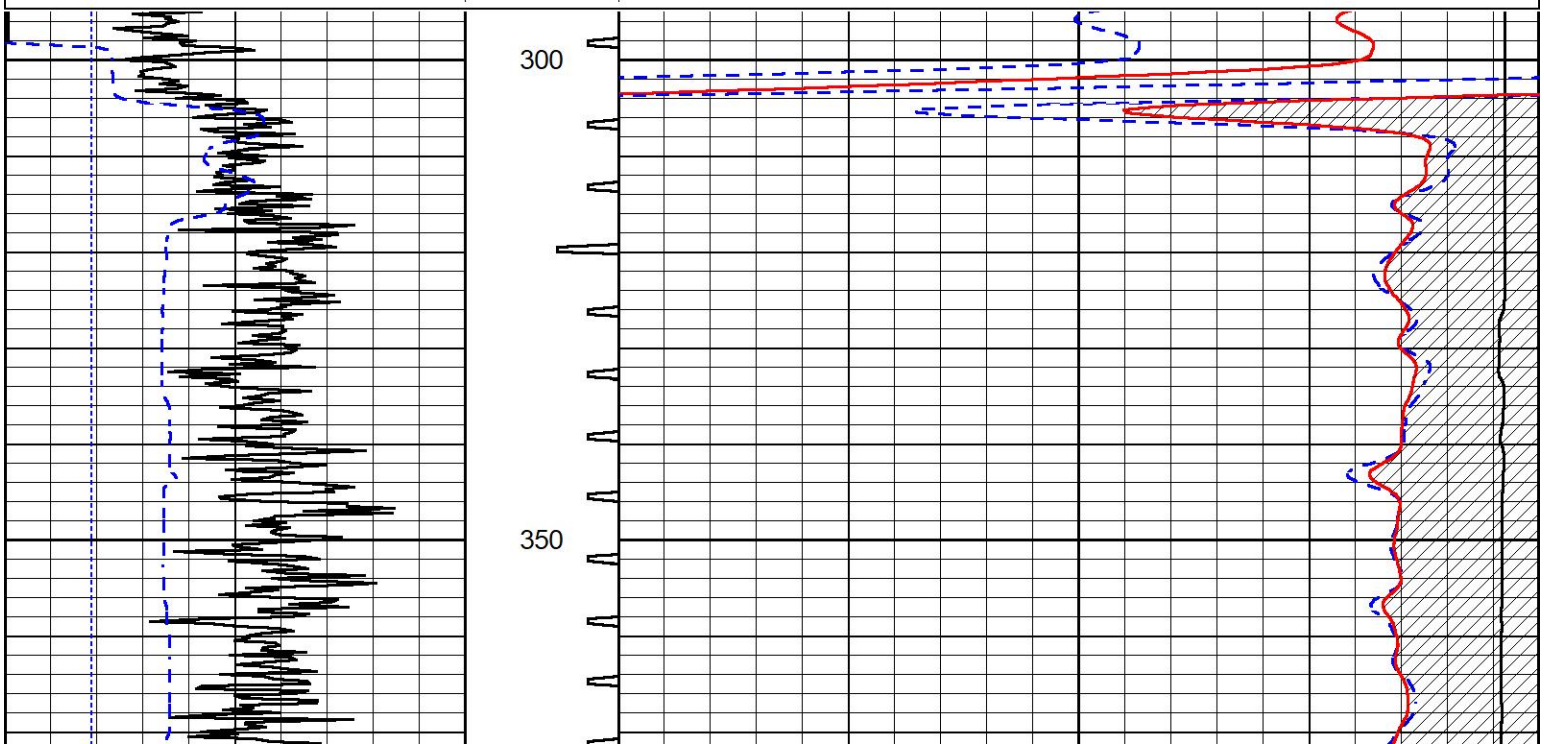
MIDWEST WIRELINE

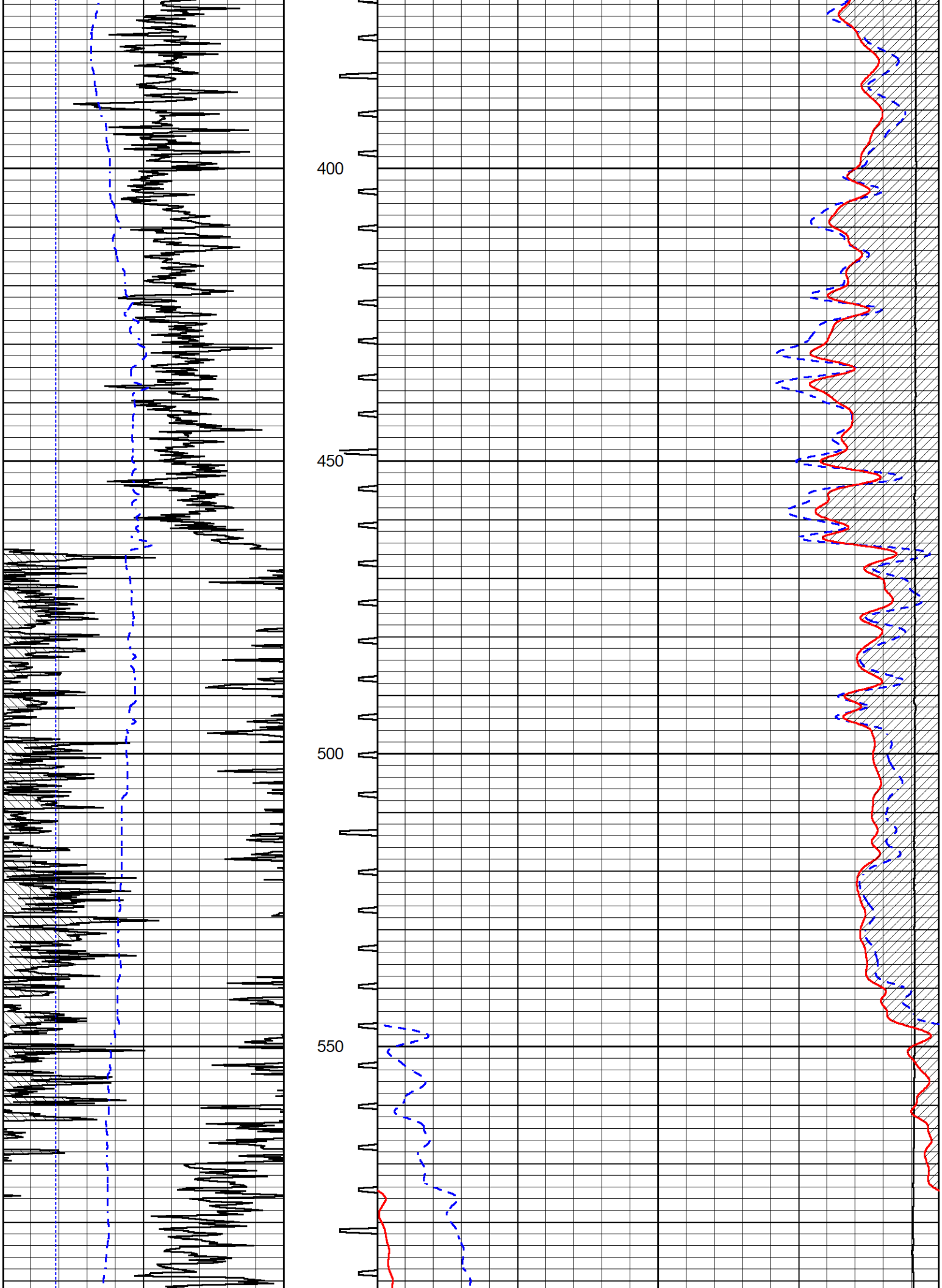
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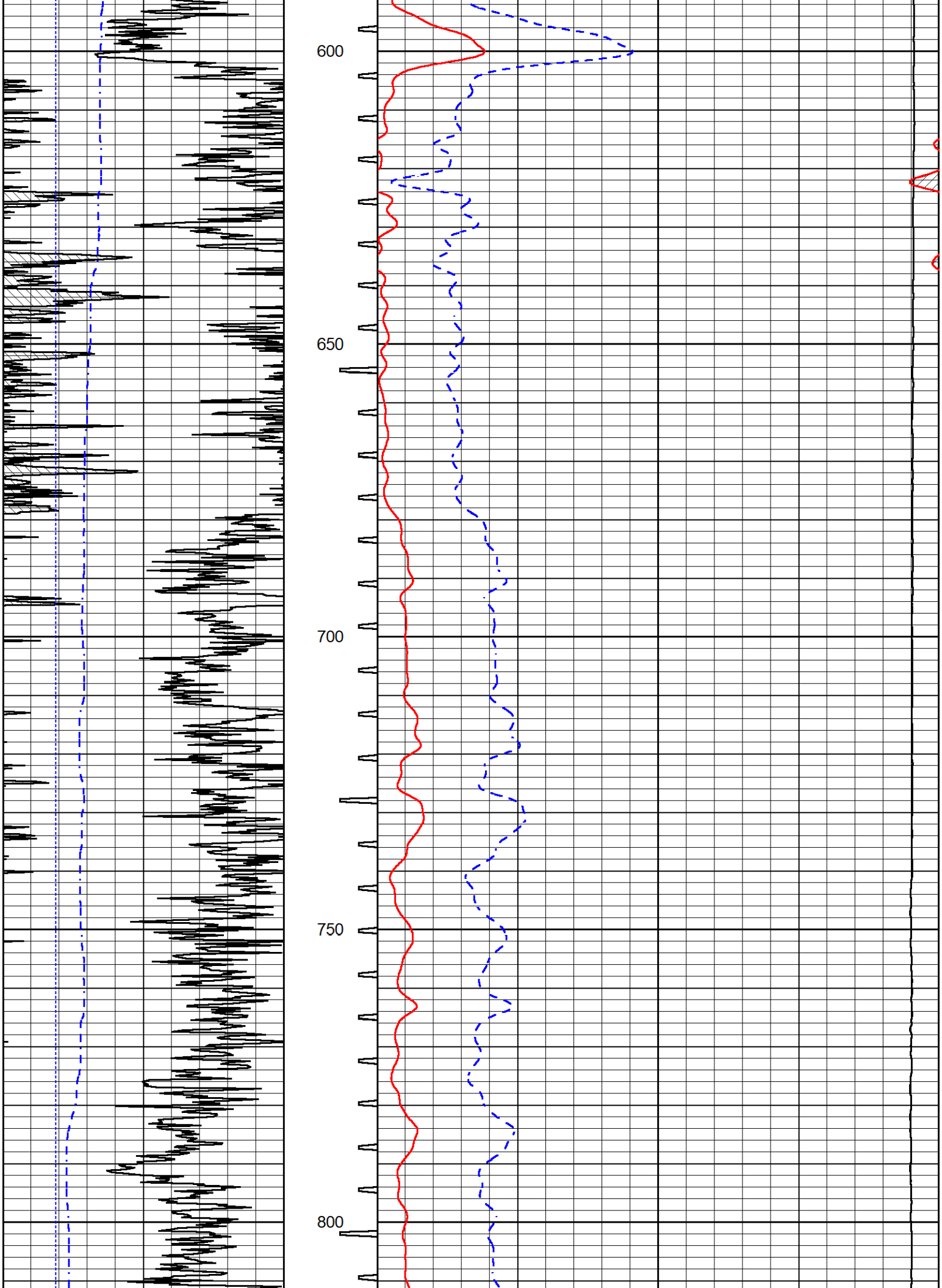
MAIN PASS

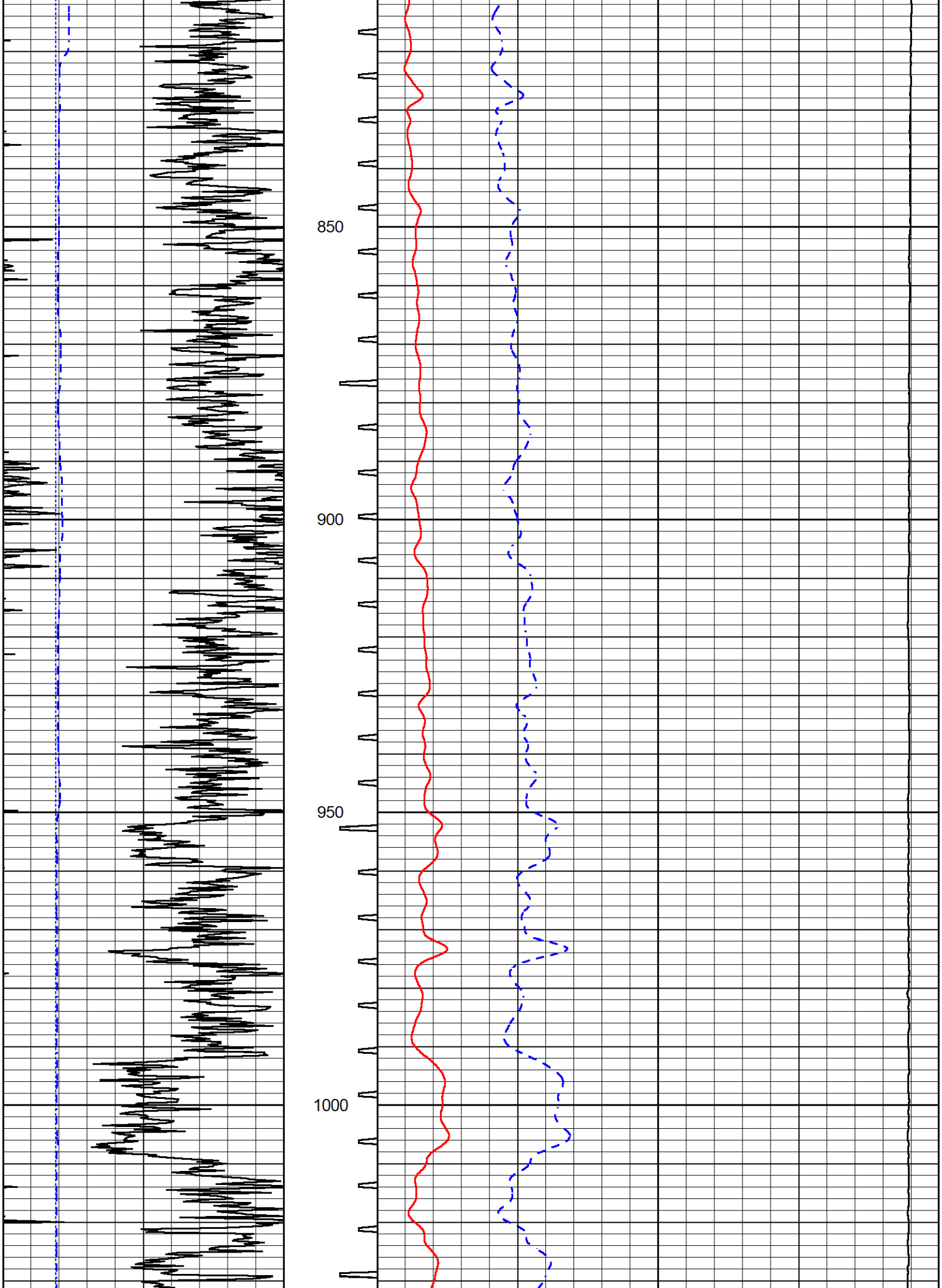
Database File	murfin_p&p unit #1-35.db
Dataset Pathname	StkMl/pass3.1
Presentation Format	_sonic
Dataset Creation	Thu Aug 11 03:13:20 2022
Charted by	Depth in Feet scaled 1:240

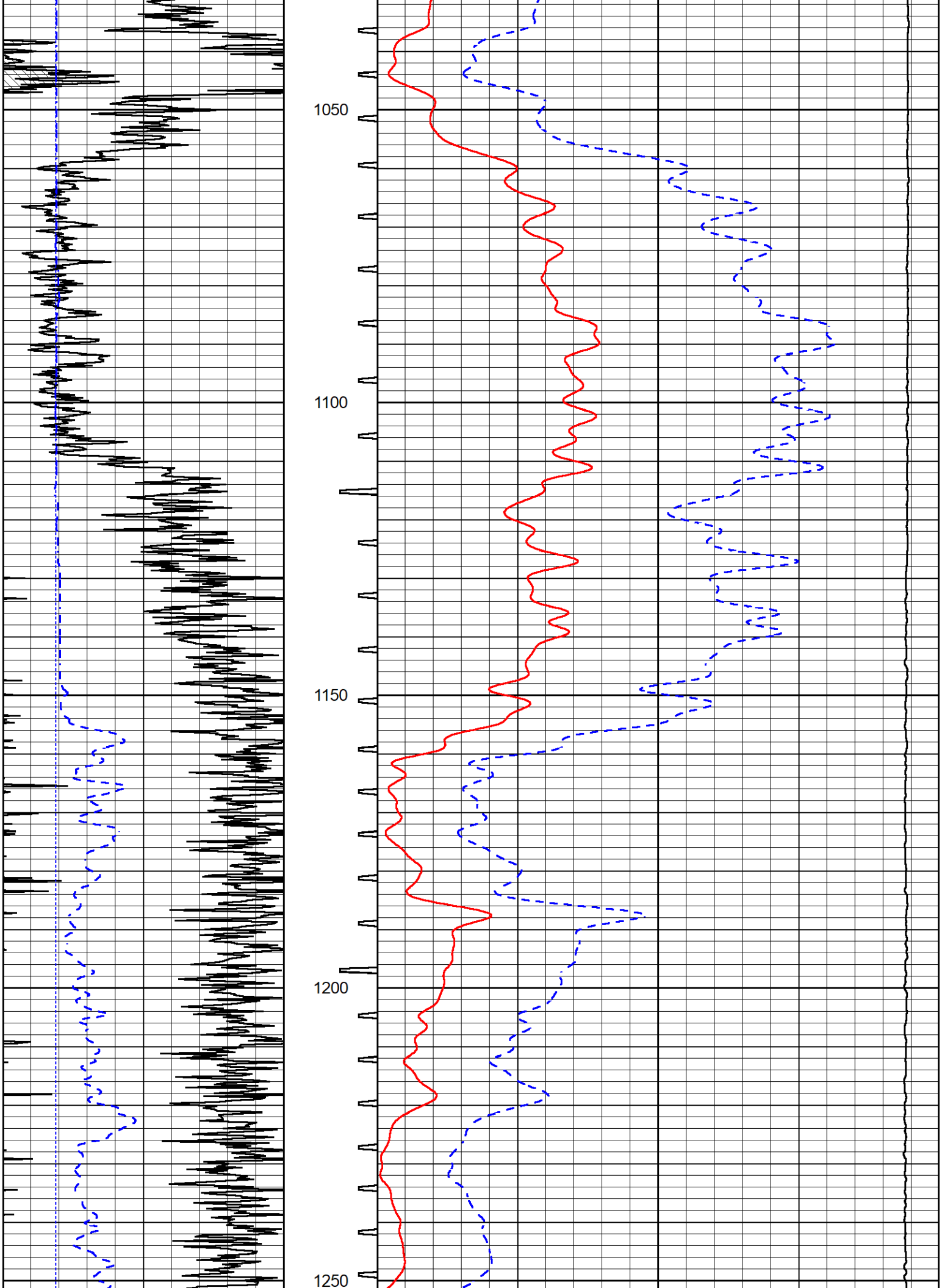
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft) 40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu) (pu) -10
6	Caliper (in)	16		15000	Line Tension (lb) 0

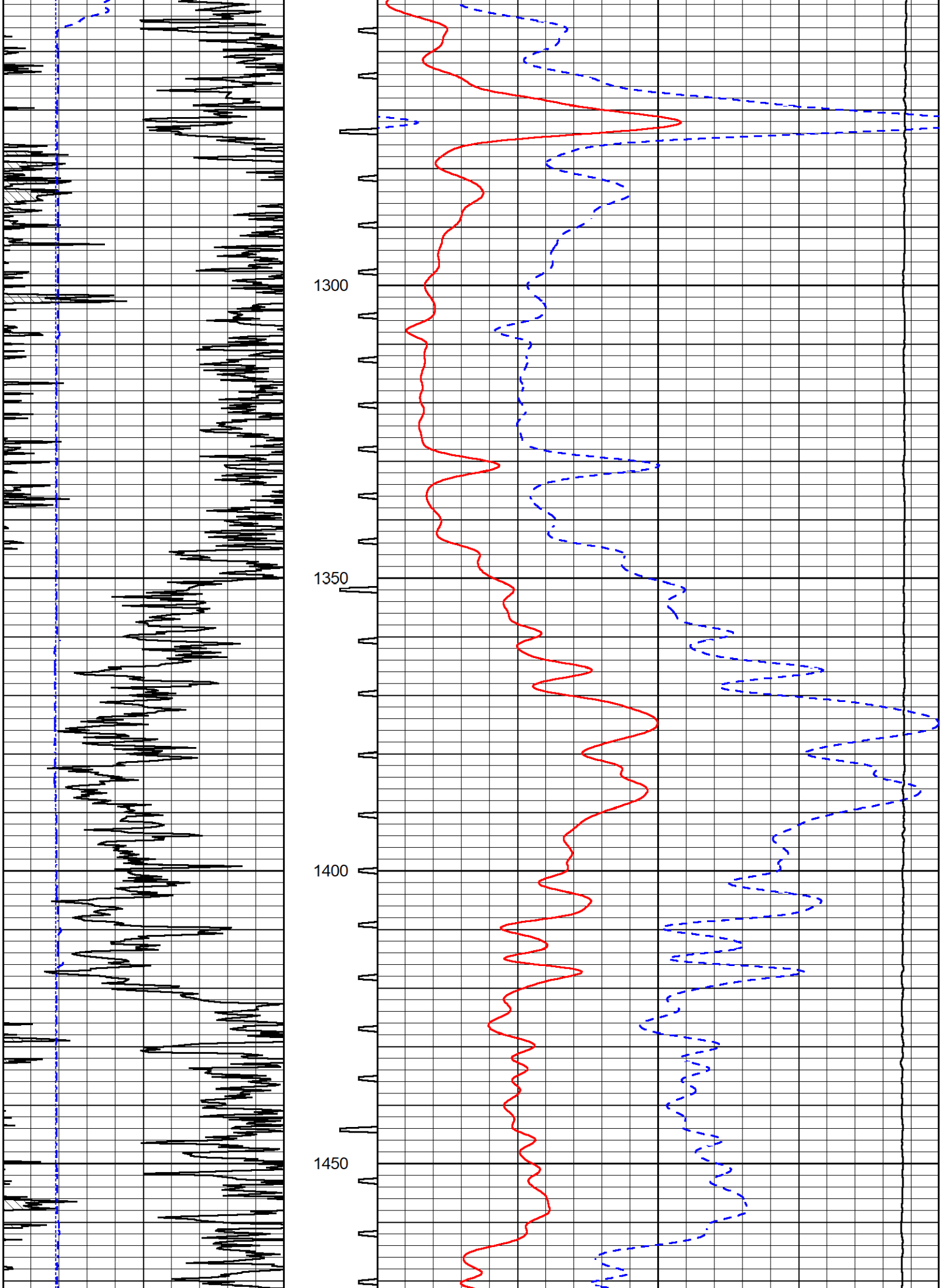


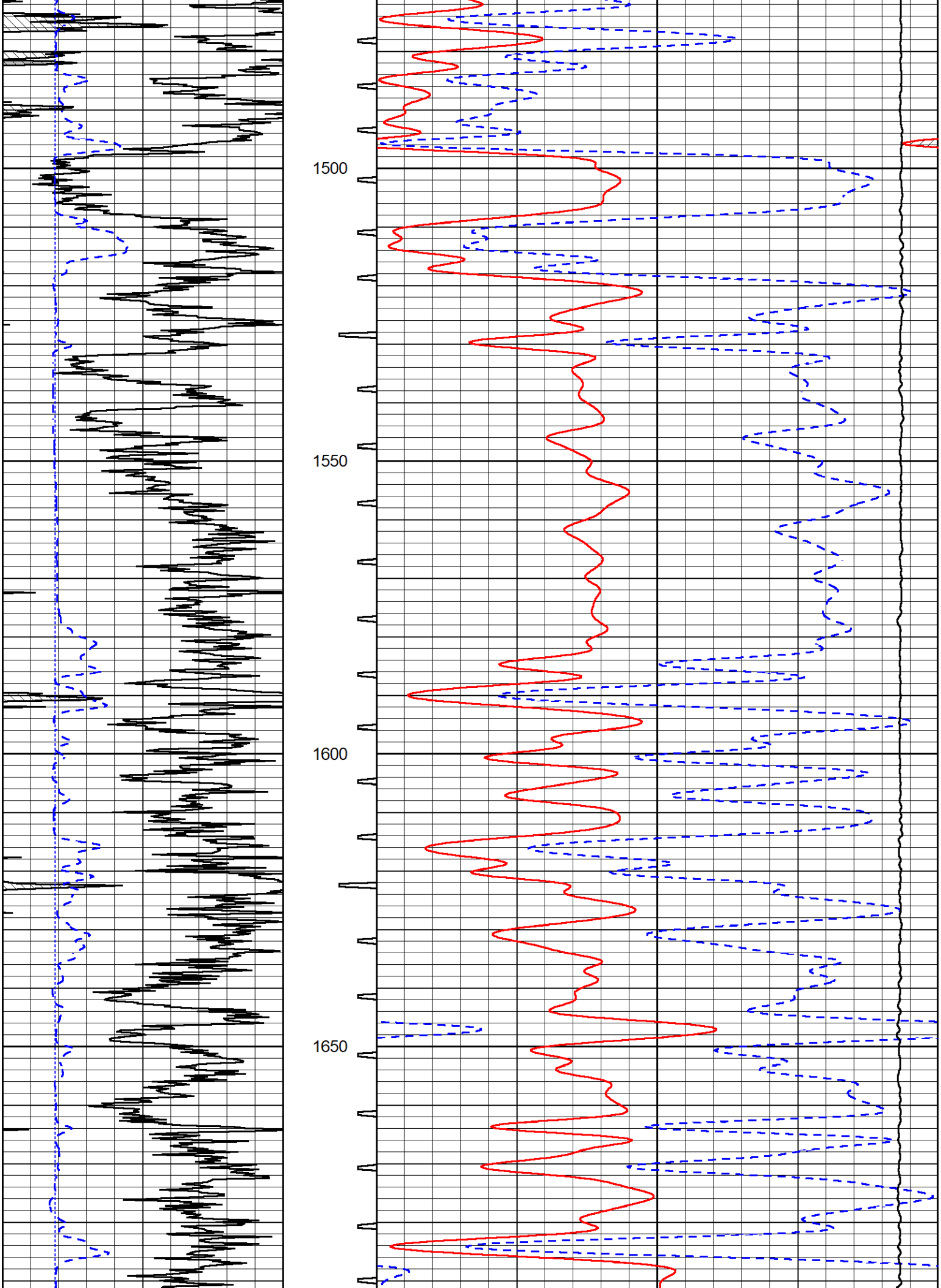

400
450
500
550

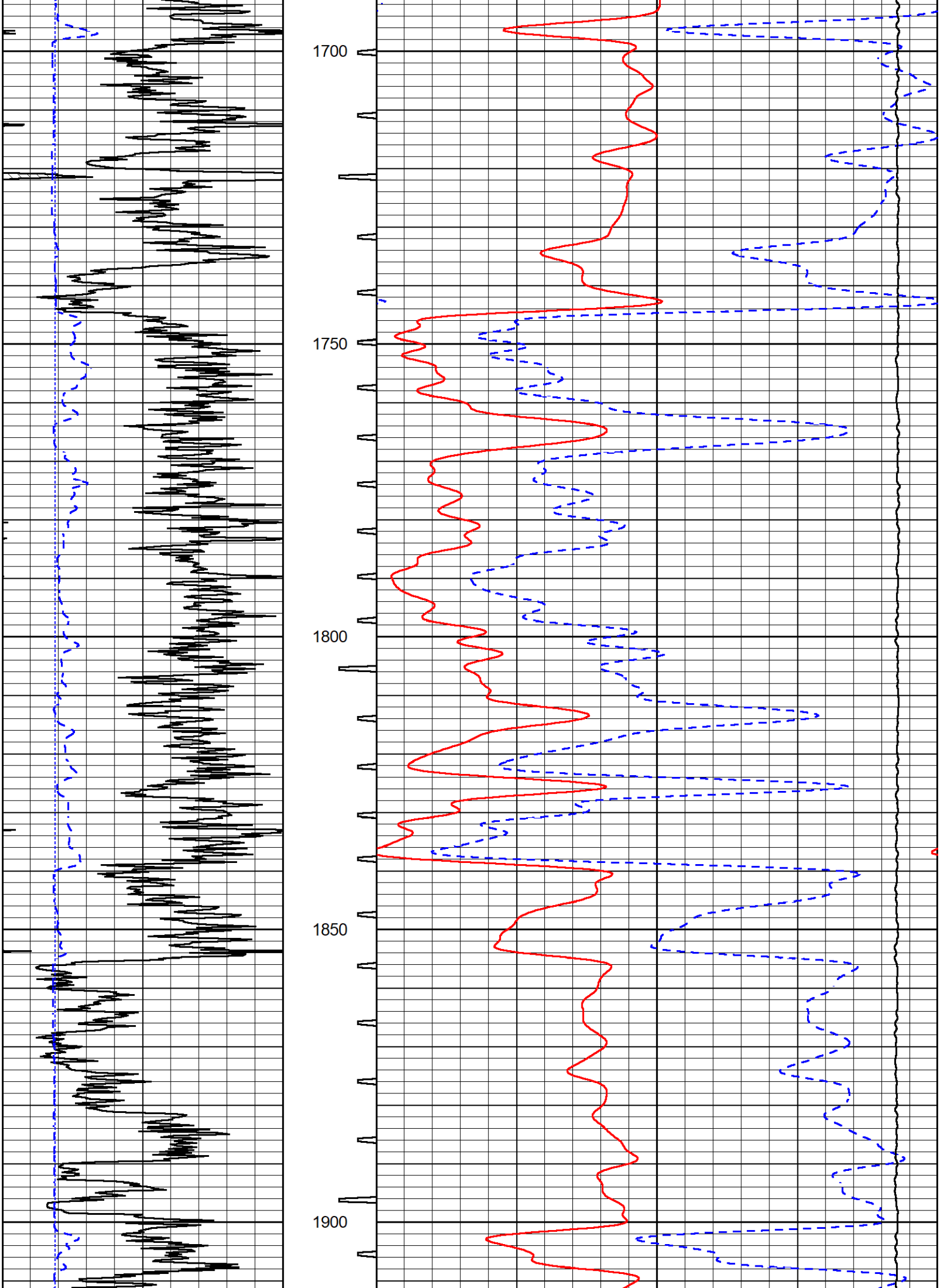

600
650
700
750
800

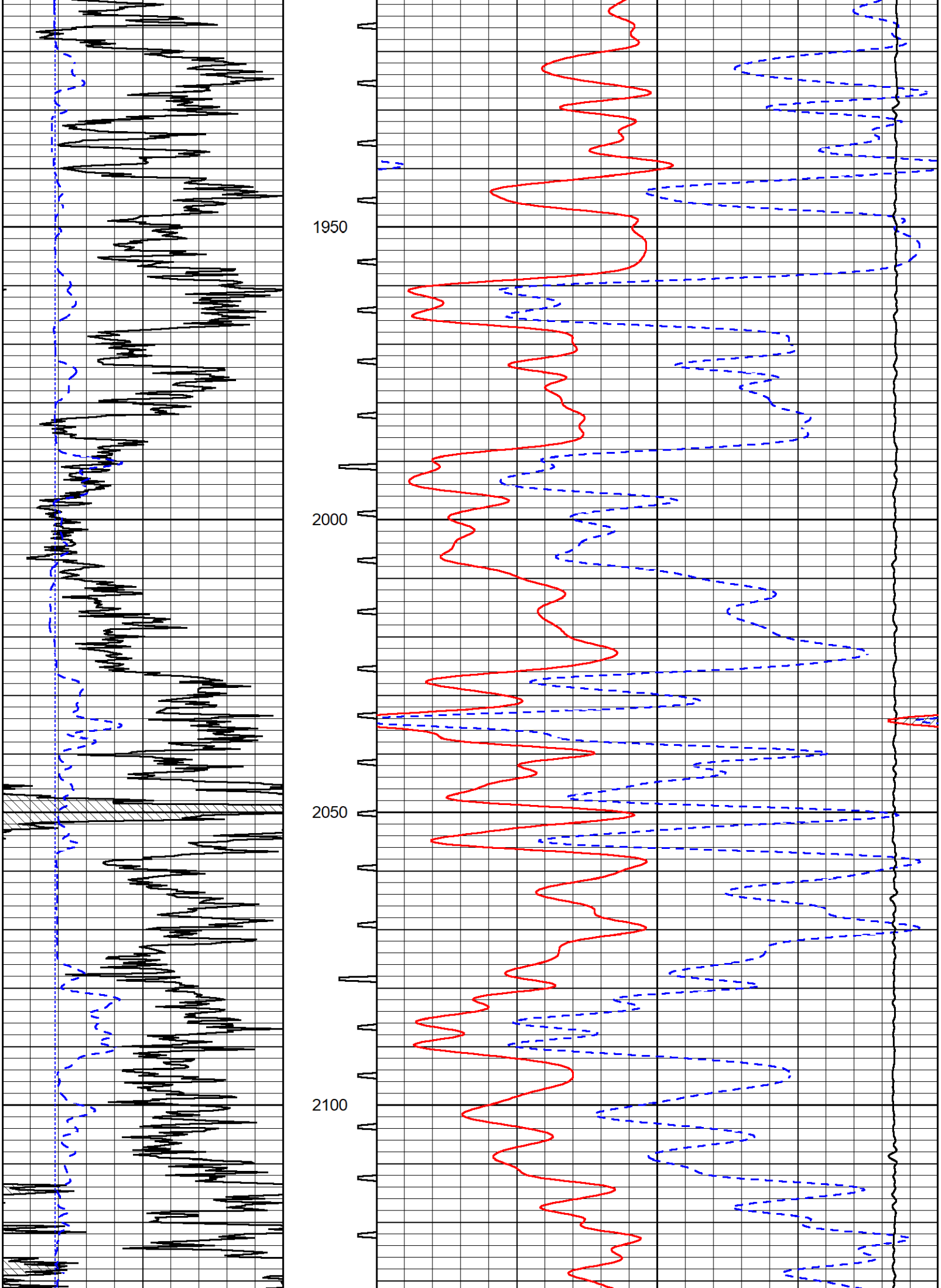

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900
950
1000

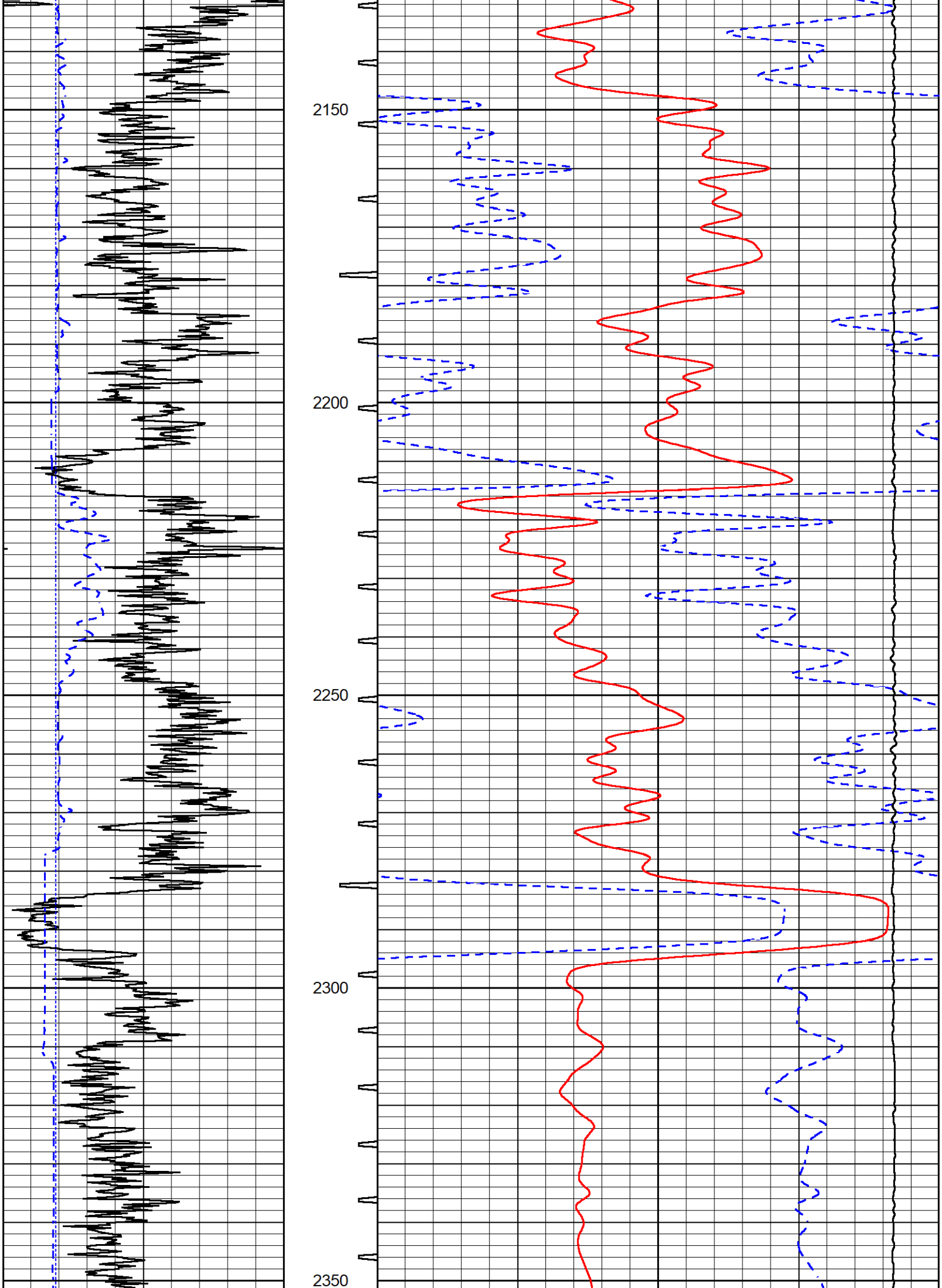

1050
1100
1150
1200
1250

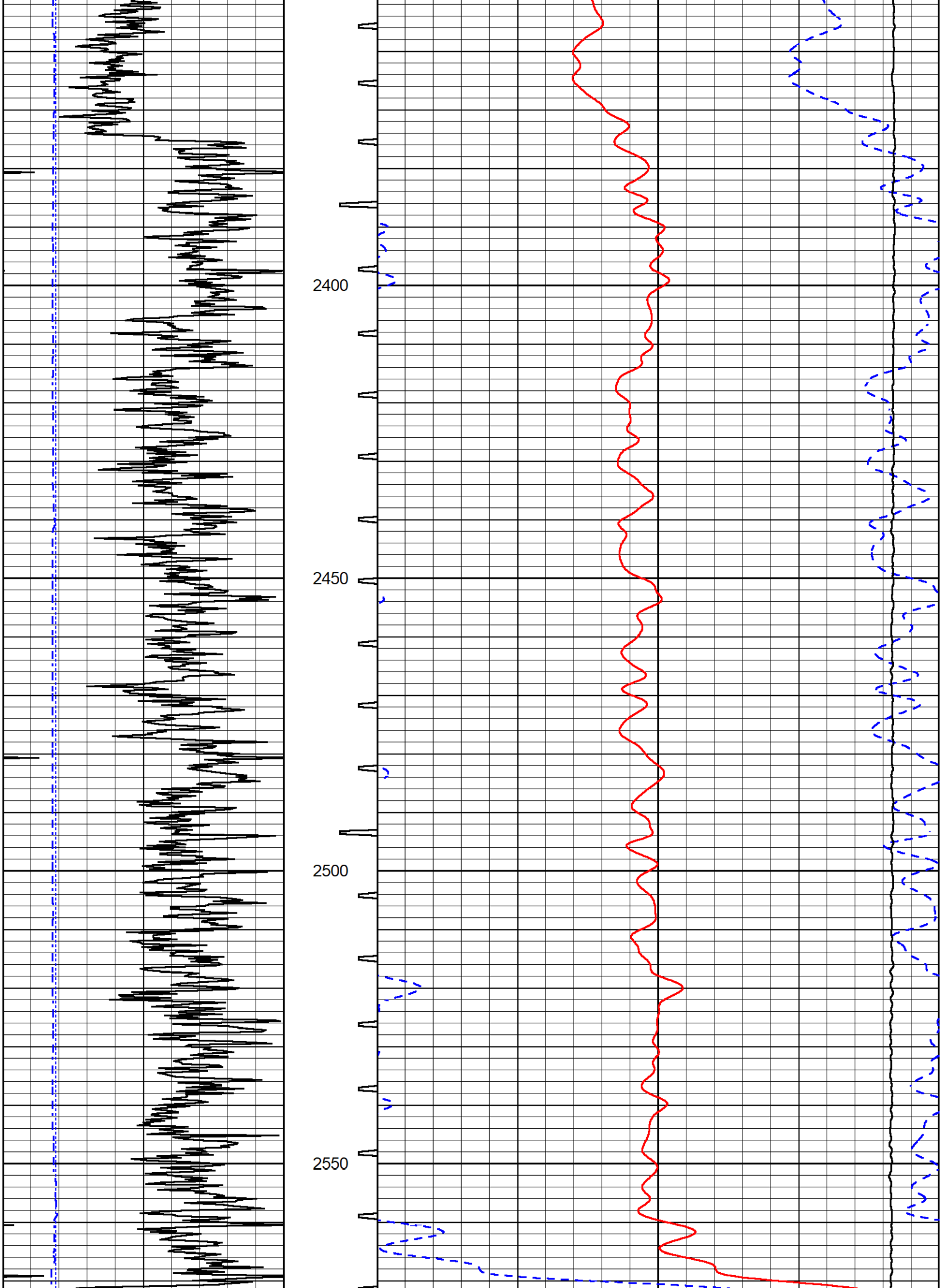

1300
1350
1400
1450

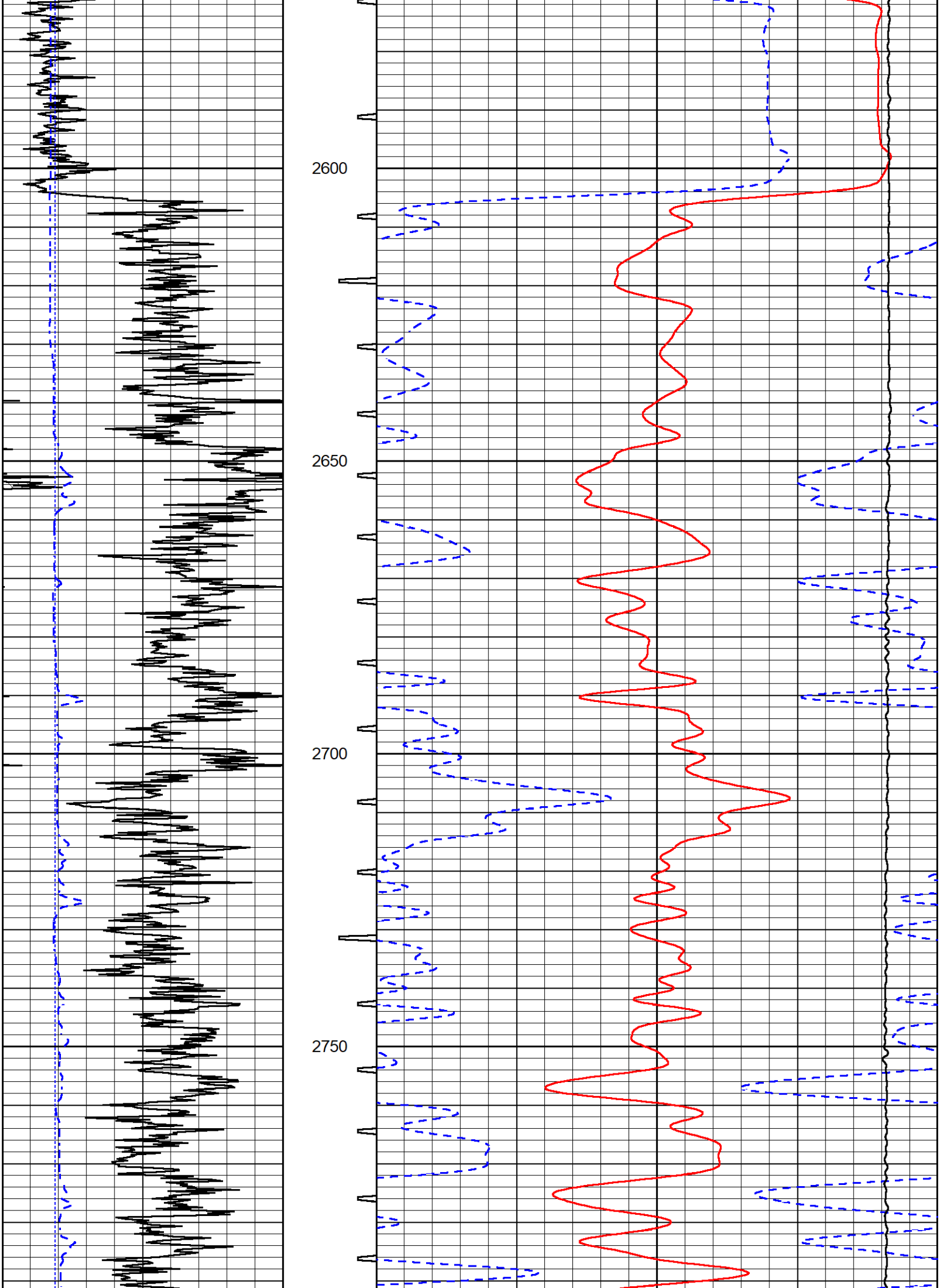

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1550
1600
1650

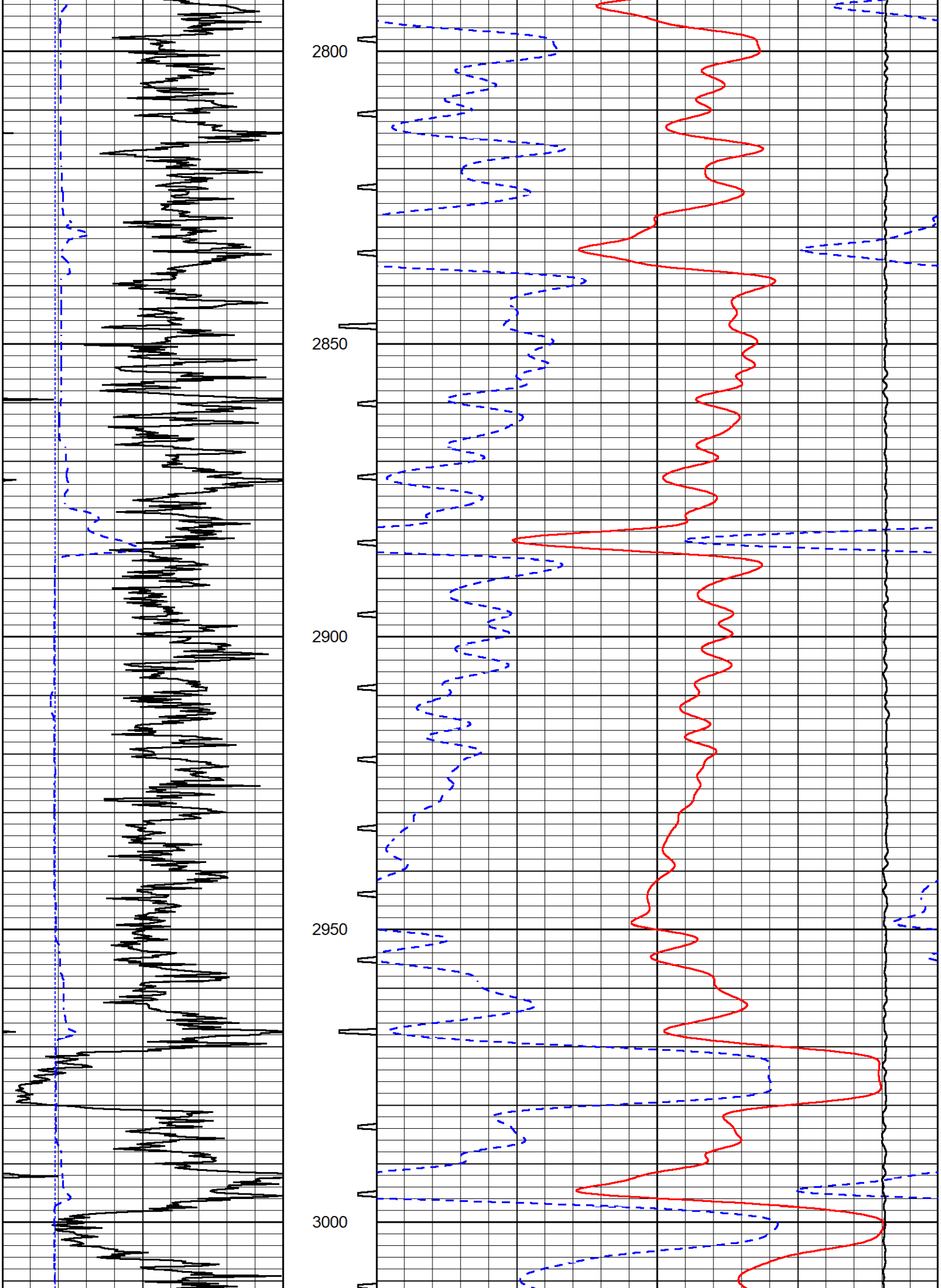

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1750
1800
1850
1900

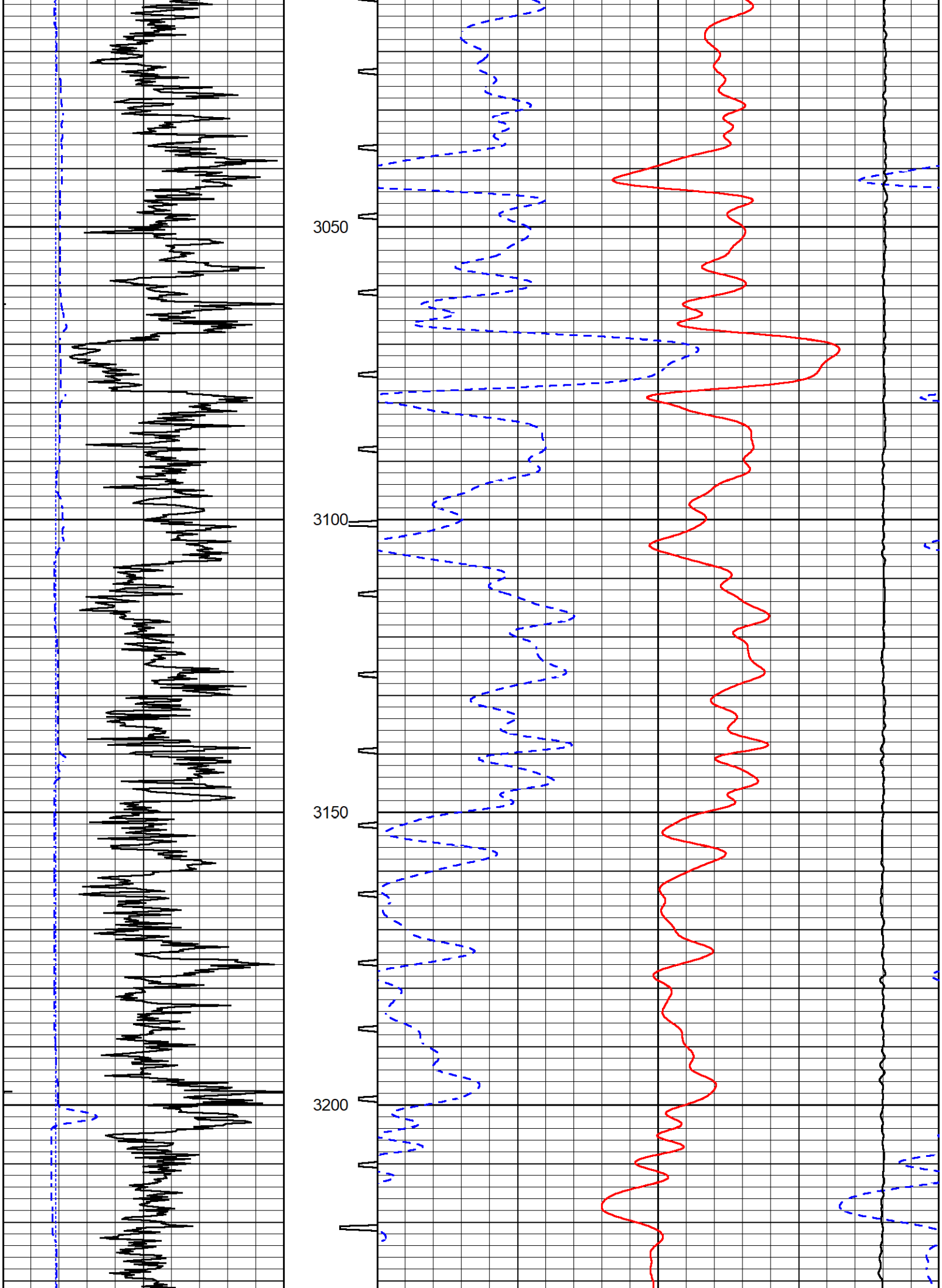

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2000
2050
2100

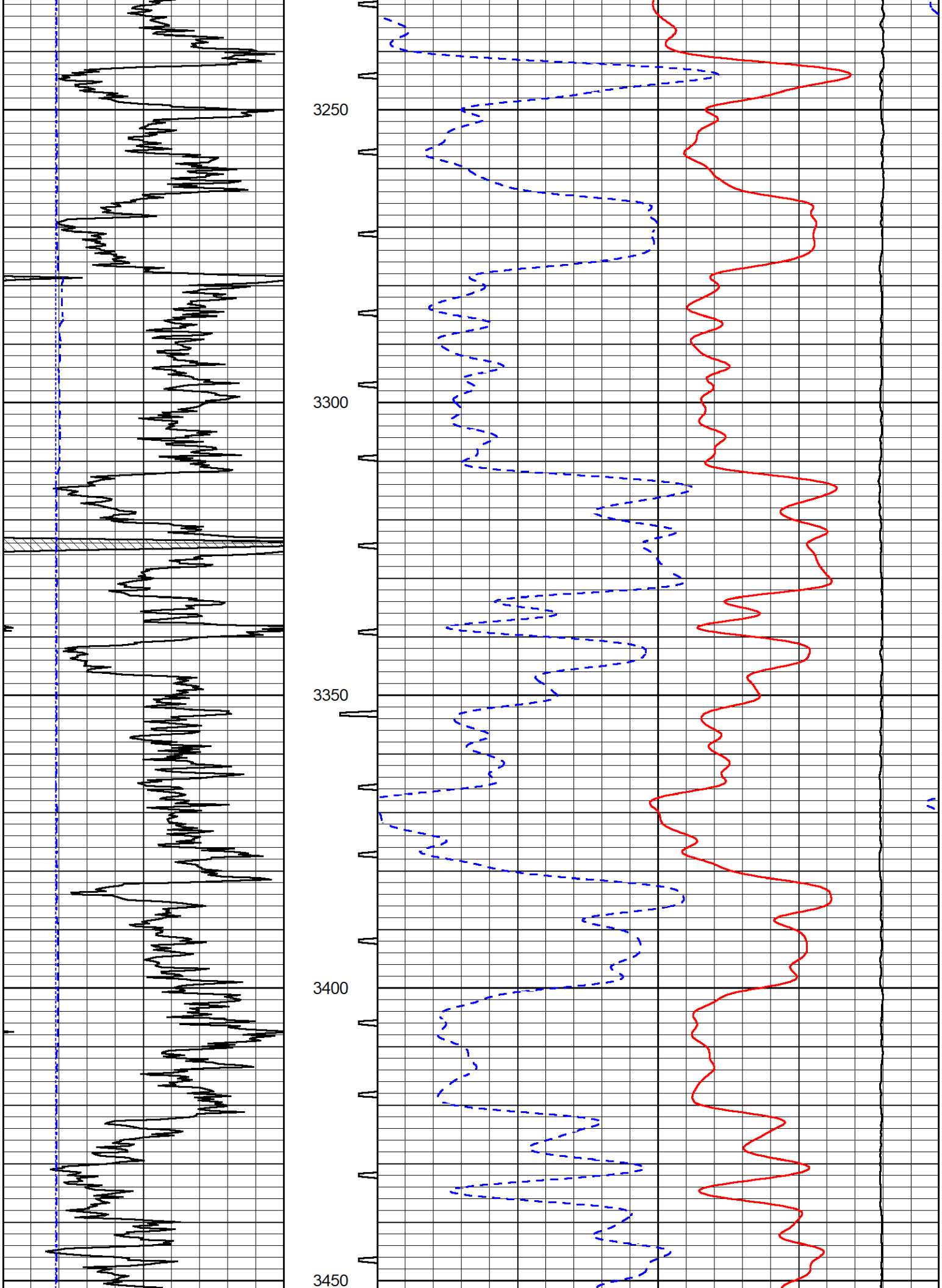

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2200
2250
2300
2350

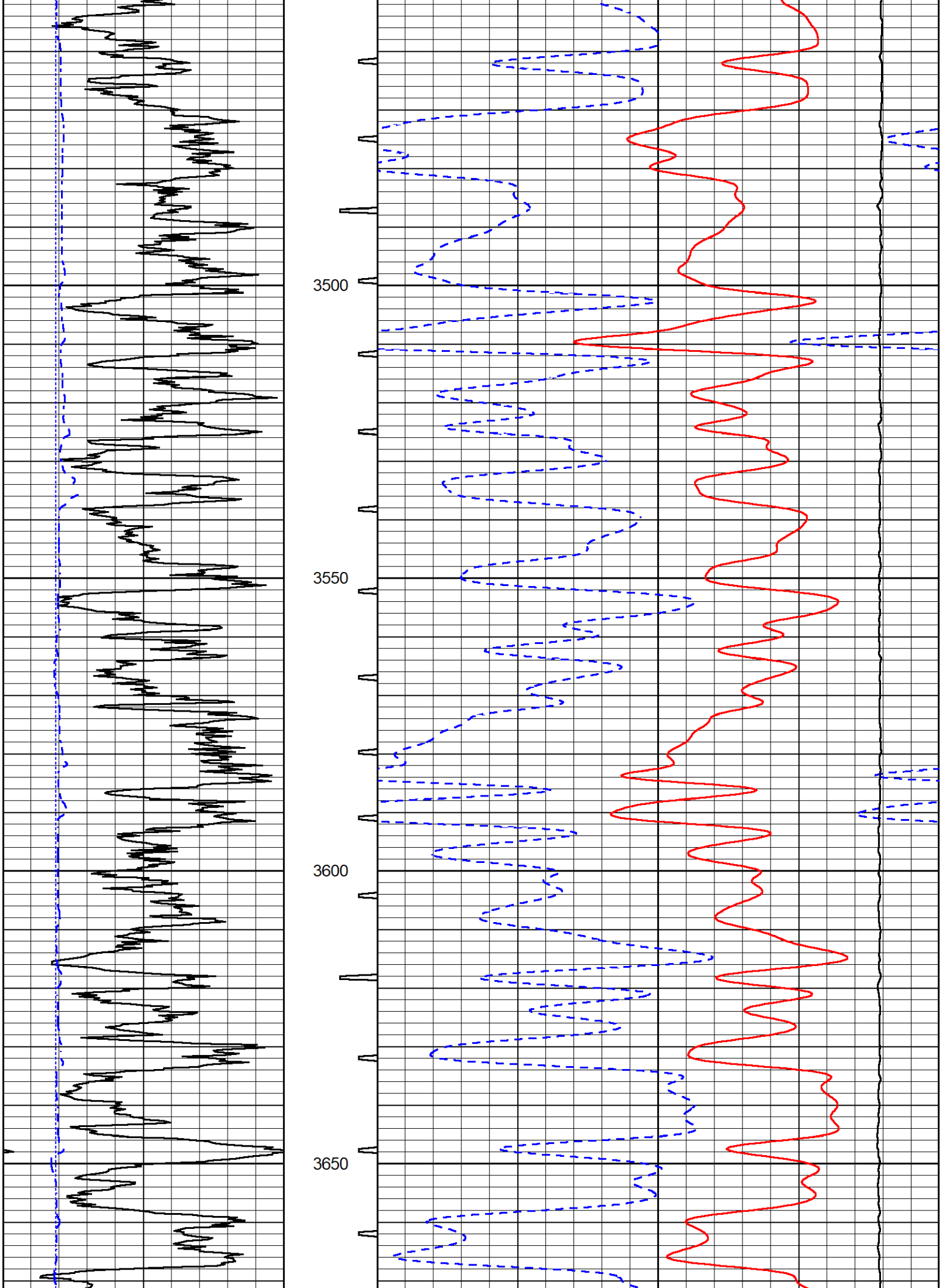

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2450
2500
2550

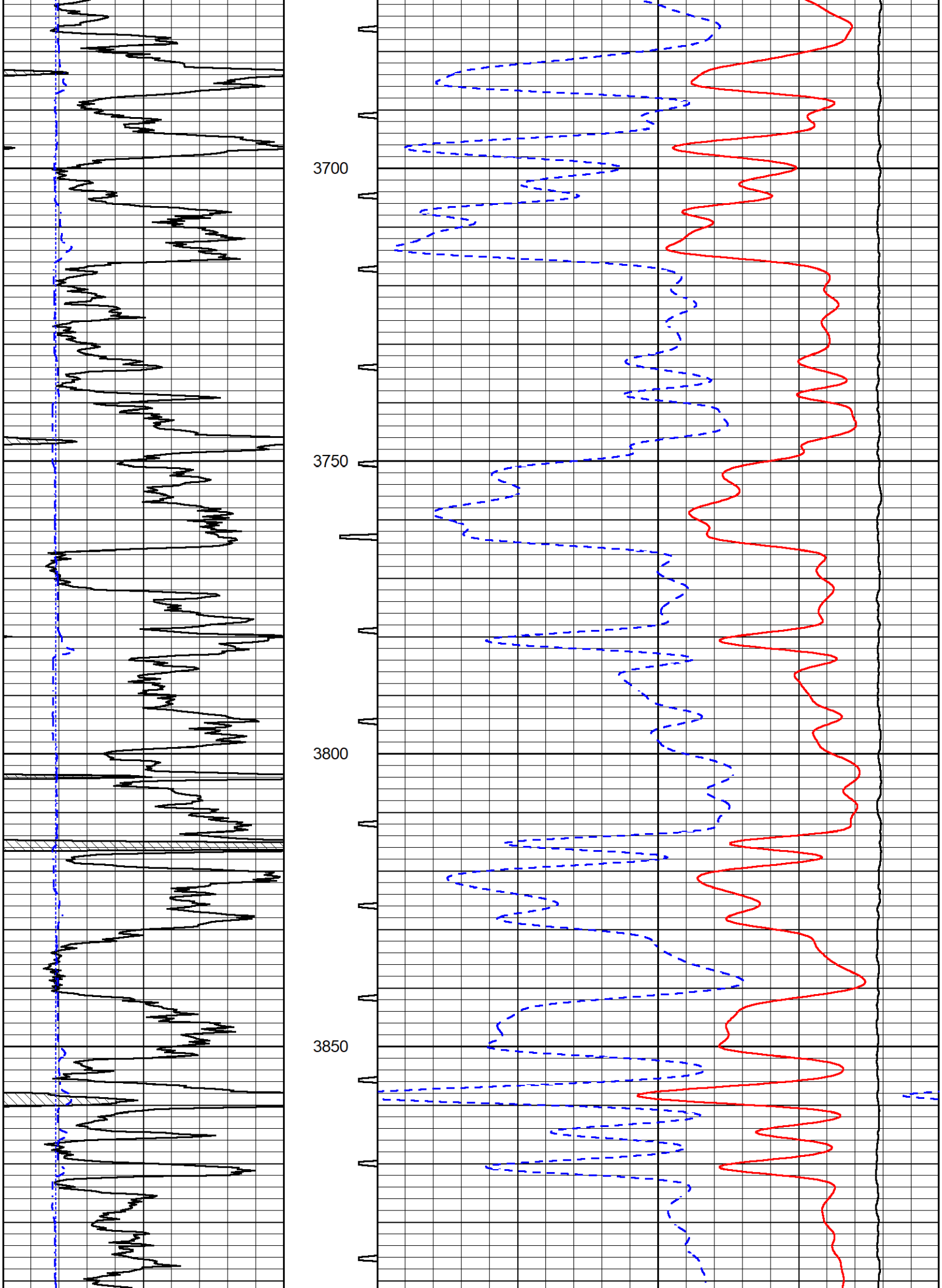

2600
2650
2700
2750

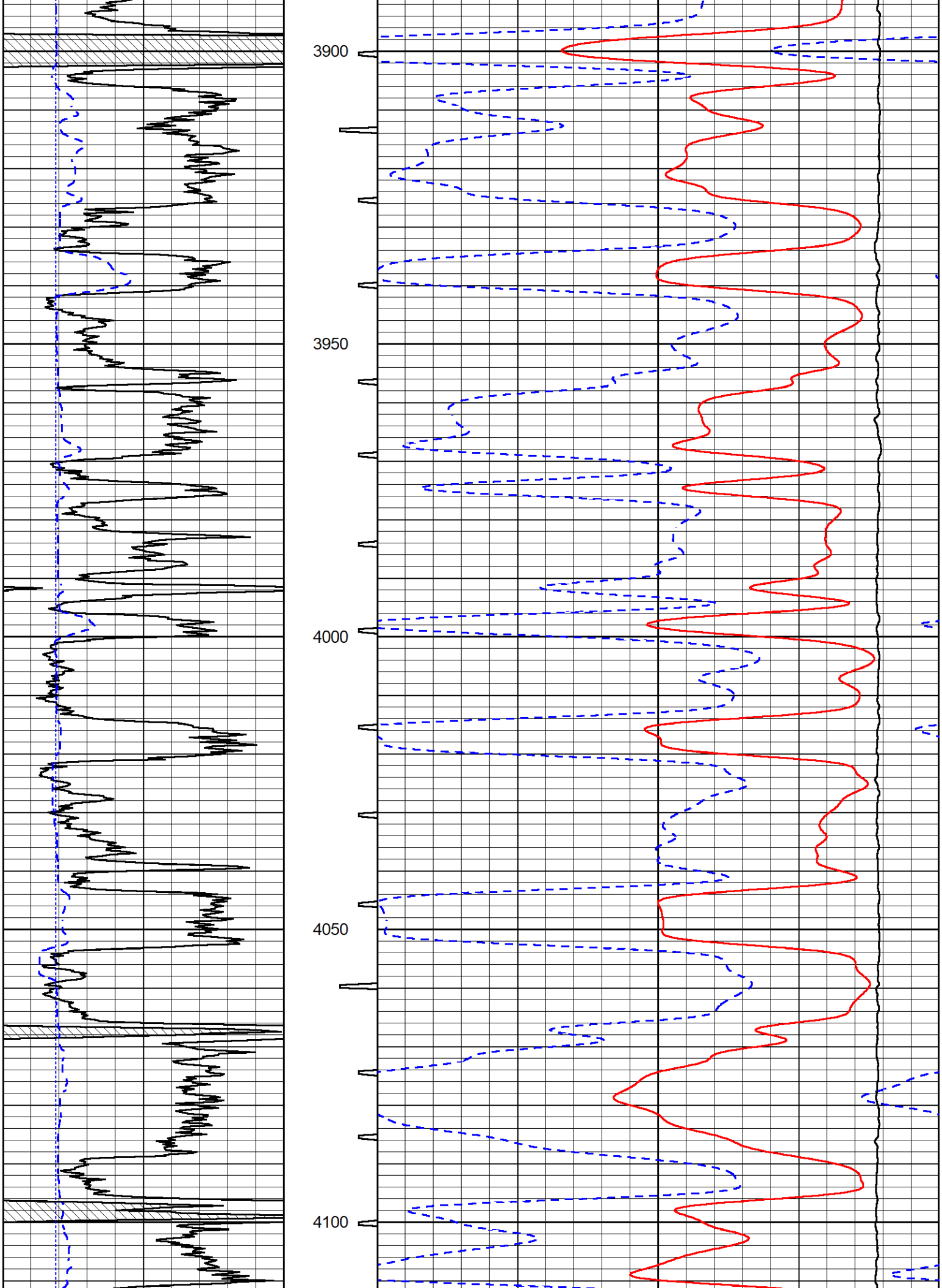

2800
2850
2900
2950
3000

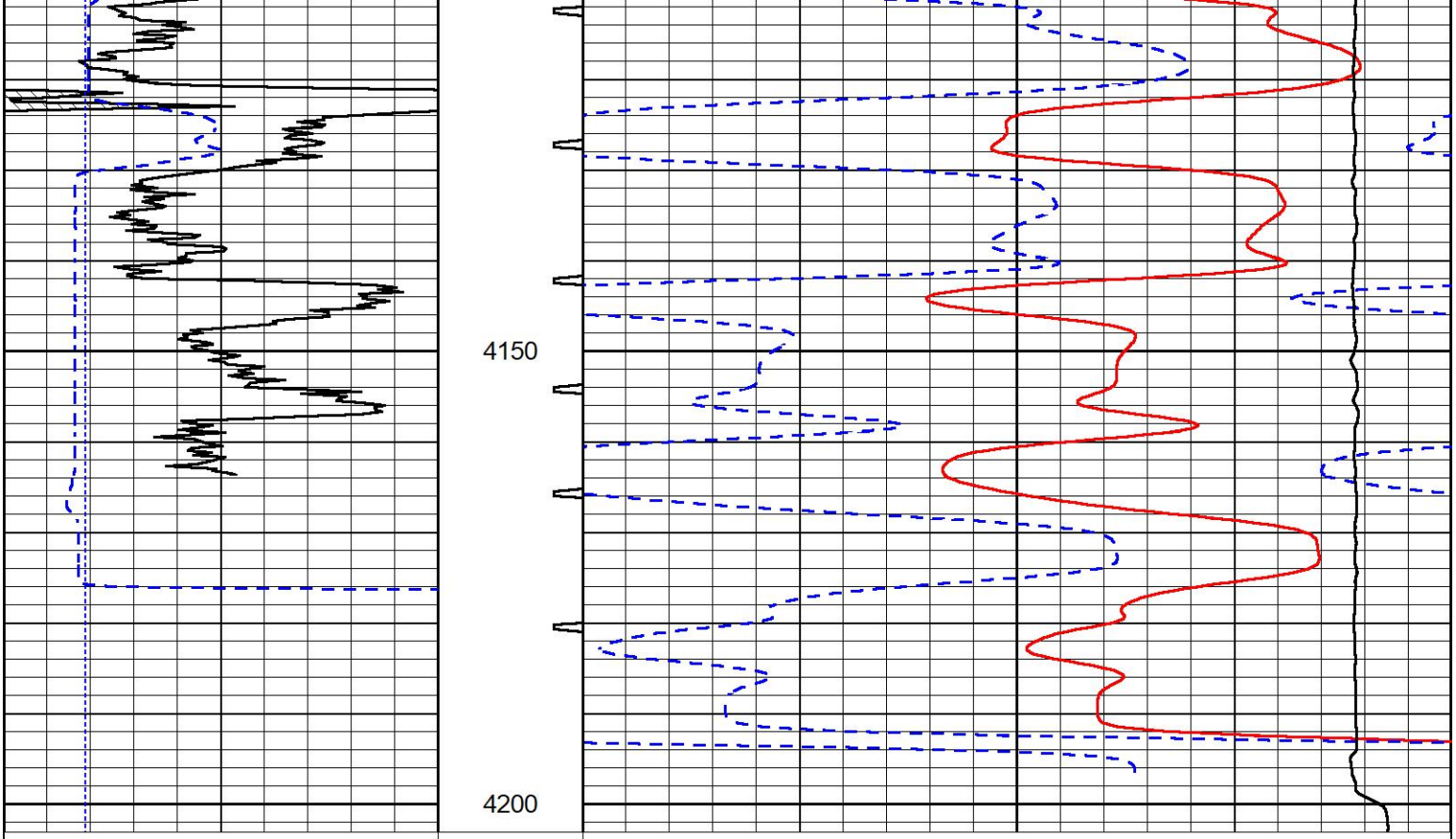

3050
3100
3150
3200


3250
3300
3350
3400
3450


3500
3550
3600
3650


3700
3750
3800
3850


3900
3950
4000
4050
4100



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

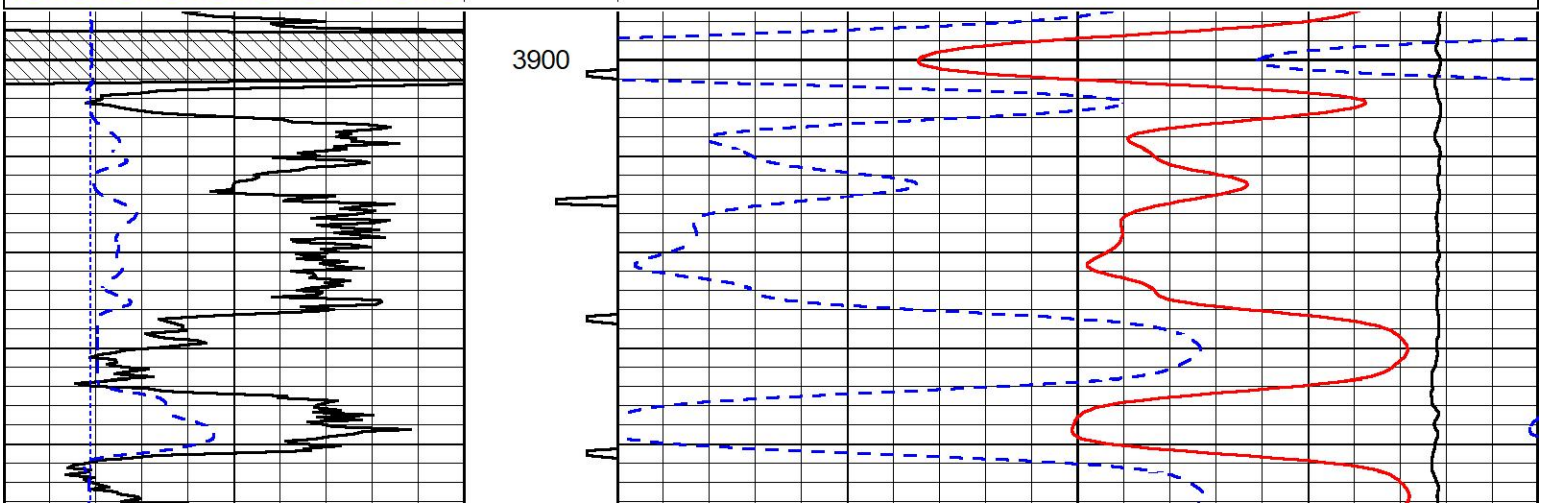
MIDWEST WIRELINE

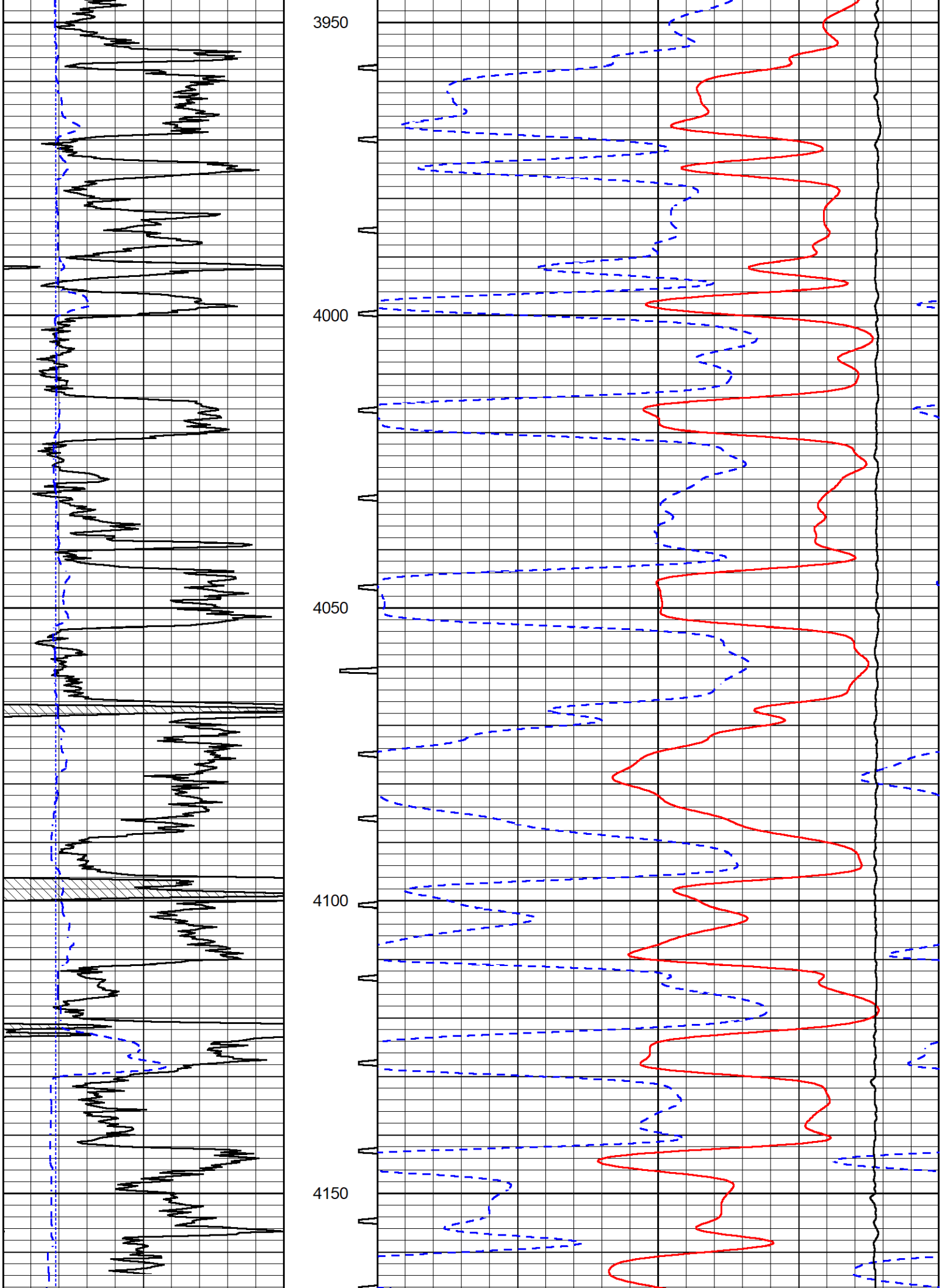
REPEAT SECTION

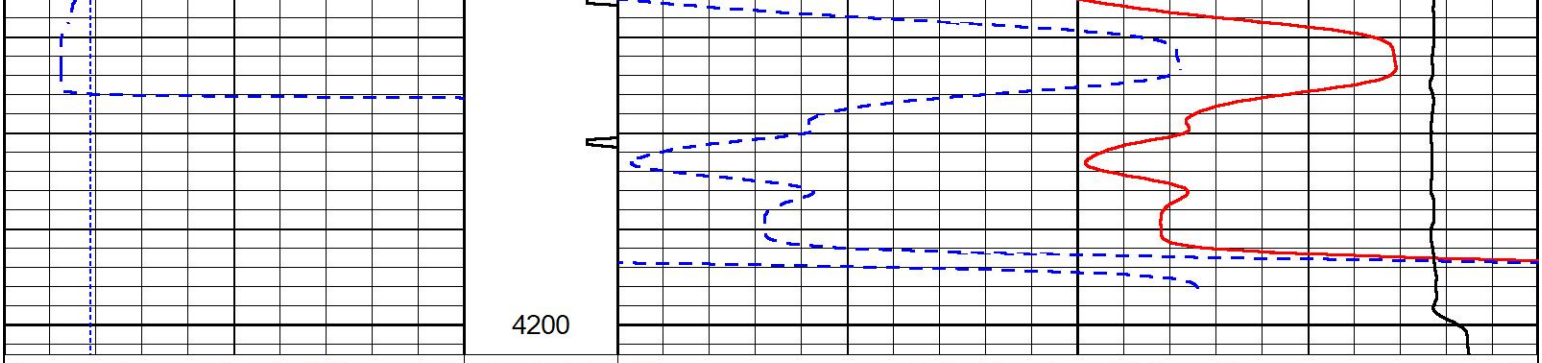
REPEAT PASS

Database File	murfin_p&p unit #1-35.db
Dataset Pathname	StkMl/pass2.1
Presentation Format	_sonic
Dataset Creation	Thu Aug 11 02:22:31 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




3950
4000
4050
4100
4150



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	P&P Unit #1-35
Field	
County	Decatur
State	Kansas