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BOREHOLE COMPENSATED SONIC LOG

Company MURFIN DRILLING COMPANY, INC.
Well BANISTER 'A' #3-22
Field WILDCAT
County CHEYENNE State KANSAS
Location: API #: 15-023-21515-00-00
2310' FSL & 330' FWL
SEC 22 TWP 2S RGE 37W
Permanent Datum GROUND LEVEL Elevation 3411'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Other Services: DIL/MEL, CNL/CDL

Elevation: K.B. 3416', D.F. N/A, G.L. 3411'

Company	MURFIN DRILLING COMPANY, INC.
Well	BANISTER 'A' #3-22
Field	WILDCAT
County	CHEYENNE
State	KANSAS
Date	5/28/2019
Run Number	TWO
Type Log	BHCS
Depth Driller	4950'
Depth Logger	4950'
Bottom Logged Interval	4939'
Top Logged Interval	350'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	600
Density	9.0
Level	FULL
Max. Rec. Temp. F	126 DEG/F
Operating Rig Time	5 HOURS
Equipment -- Location	P-108 HAYS
Recorded By	J. HENRICKSON
Witnessed By	ROBERT HENDRIX

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	0	373'
TWO	7.875"	373'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0	373'

<<< Fold Here >>>

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

BIRD CITY KANSAS
EAST TO 32 ROAD, 7 NORTH, EAST INTO @ TANKS

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneeres.com 785-625-3858

Your Pioneer Energy Services Crew	This Log Record Was Witnessed By
Engineer: J. HENRICKSON	Primary Witness: ROBERT HENDRIX
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

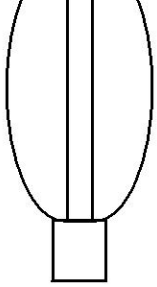
DatabaseC:\ProgramData\Warrior\Data\murfin_banister_a_3_22.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	126	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	150	43	Off	4950

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			ML-Armadillo (Armadillo-1) Pengo micro log tool mandrel with Armadillo Electronics	5.00	3.50	100.00
MCAL	22.50					
MI	22.50					
MN	22.50					
WVF4	13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF1	13.50					
WVF3	11.50					
WVF2	11.50					



CENT-PENGO	5.50	3.00	70.00

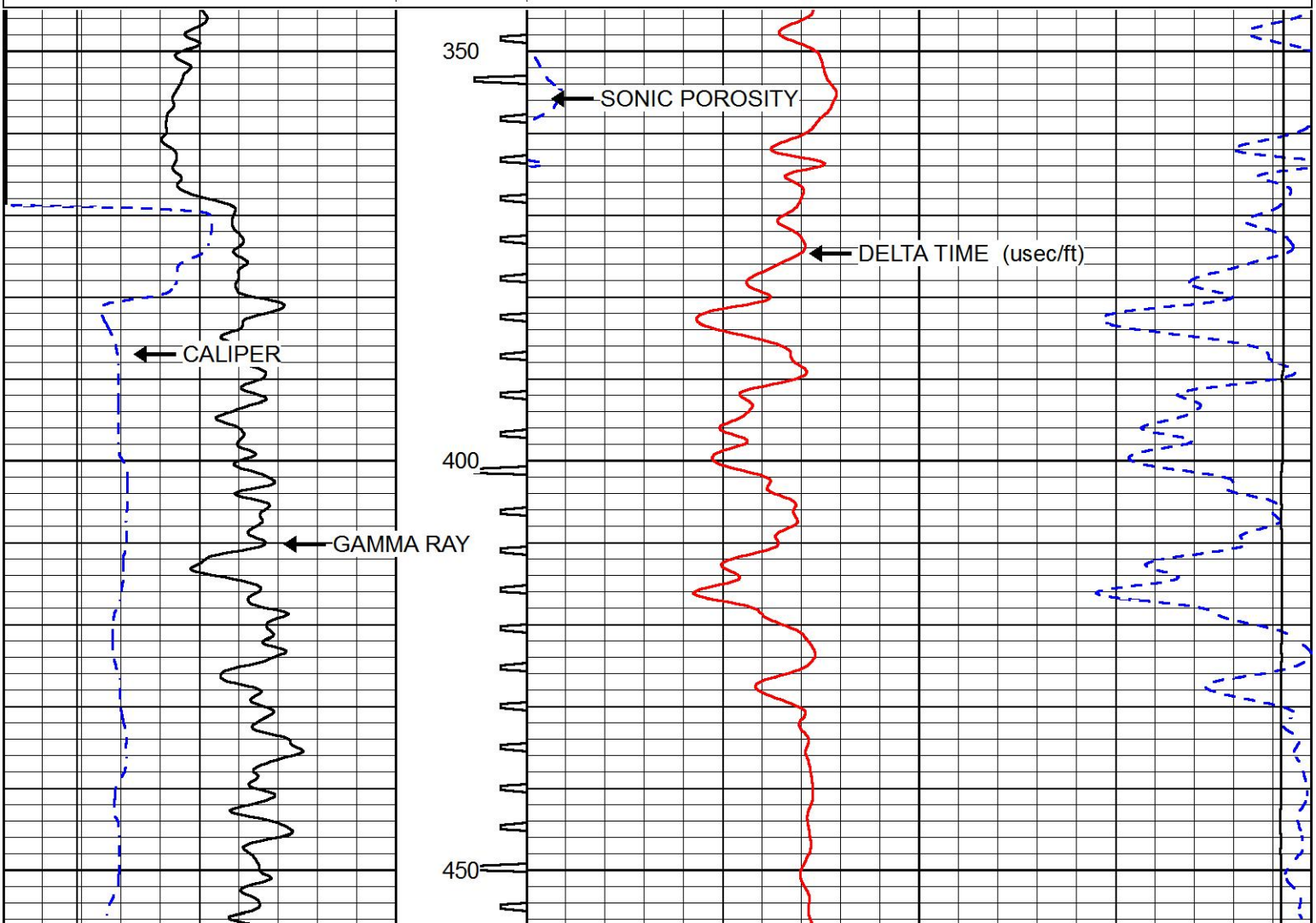
Dataset: murfin_banister_a_3_22.db: field/well/SONMEL/pass2
Total length: 26.50 ft
Total weight: 470.00 lb
O.D.: 3.50 in

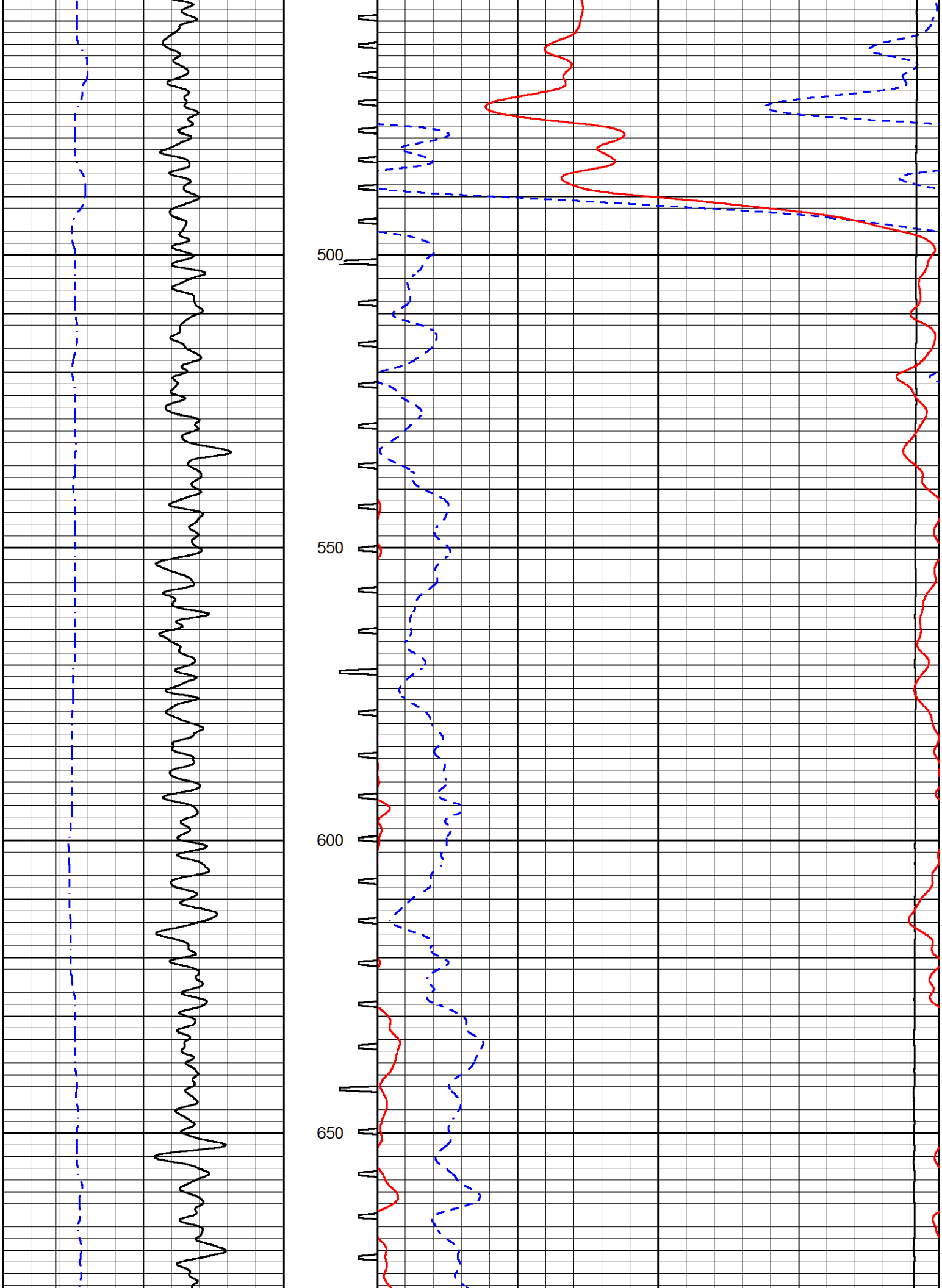
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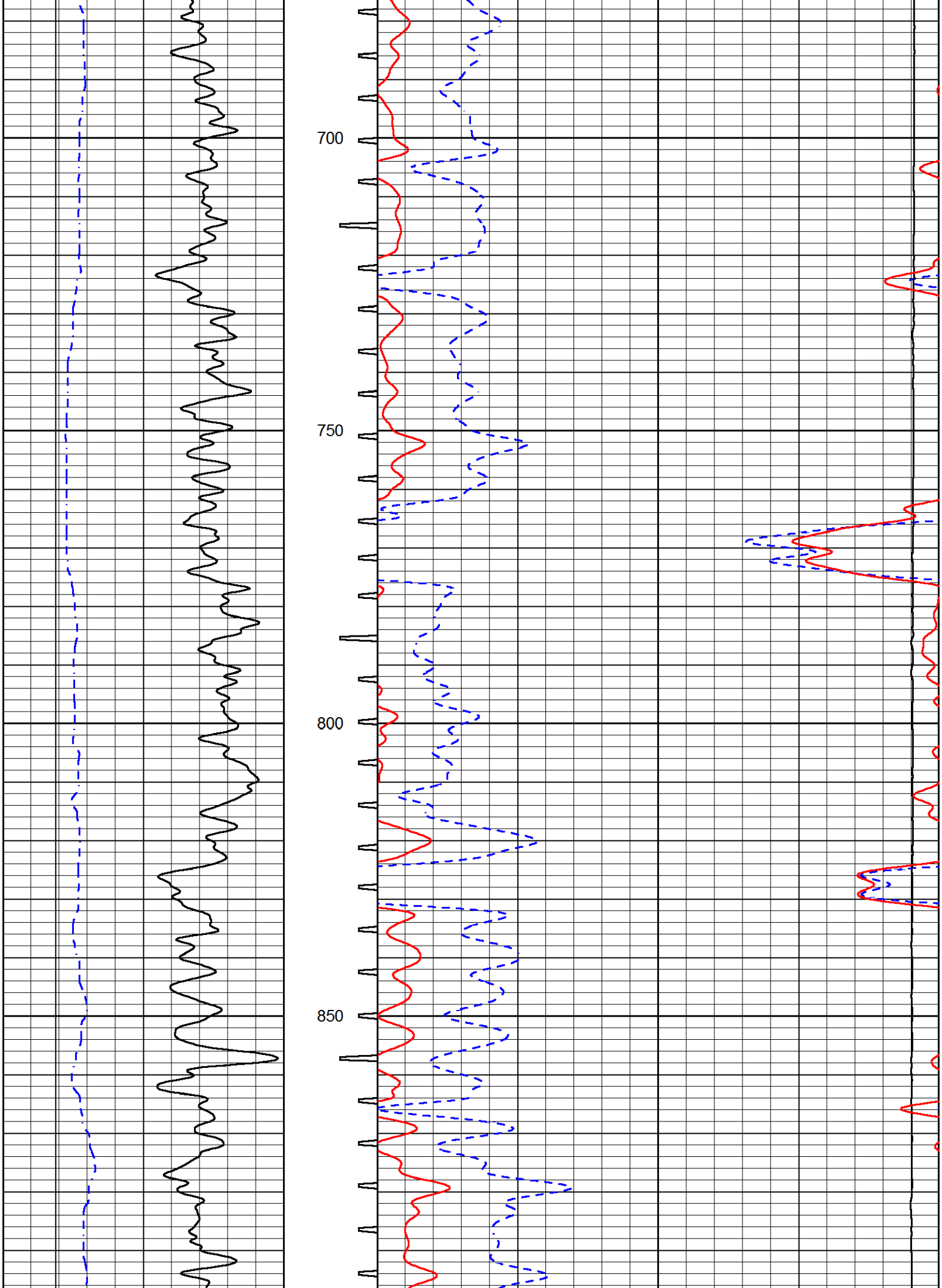
MAIN PASS

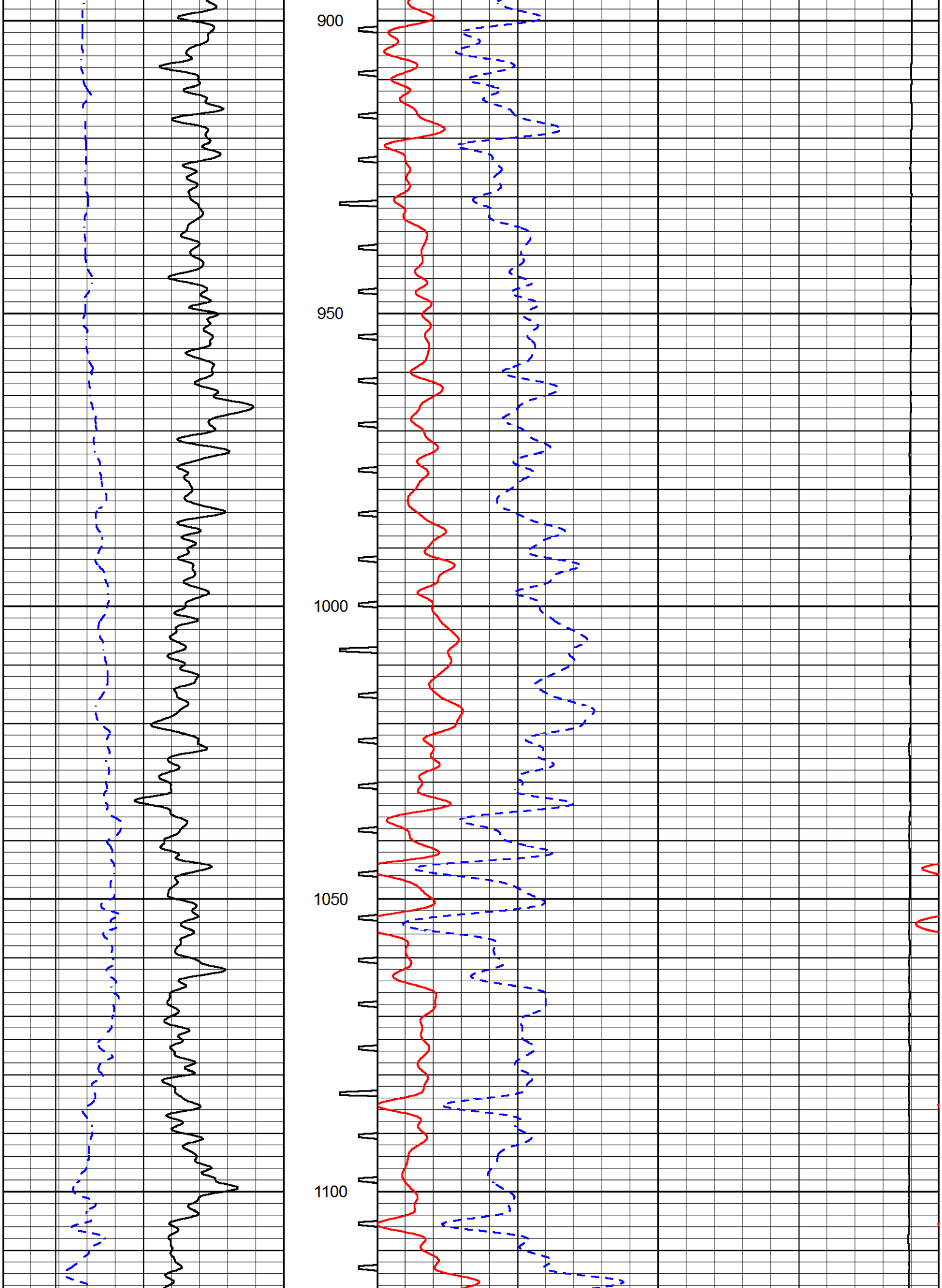
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Dataset Pathname	stack/pass3.1
Presentation Format	sonic
Dataset Creation	Tue May 28 12:35:47 2019
Charted by	Depth in Feet scaled 1:240

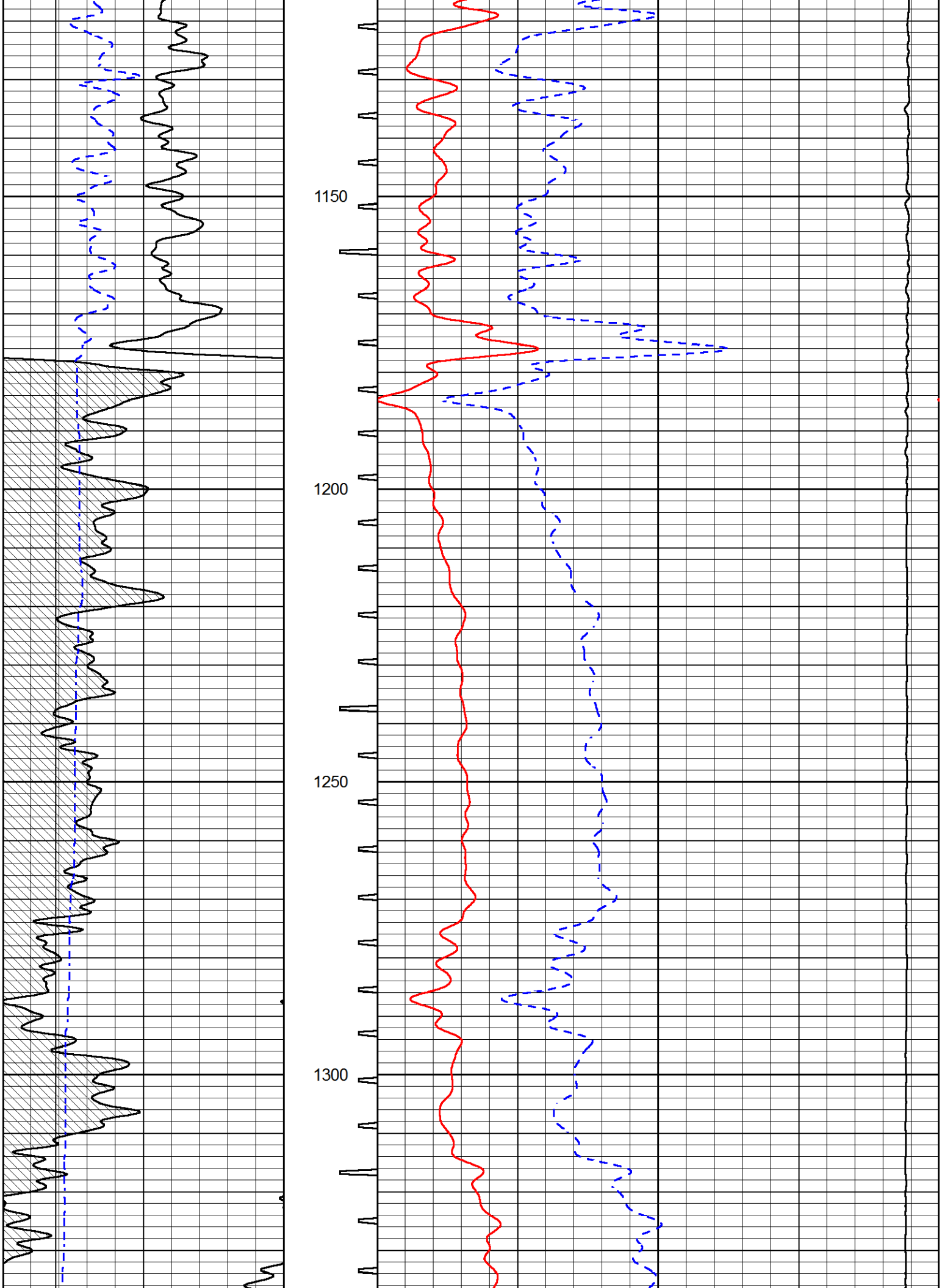
0	GAMMA RAY (GAPI)	150	SONIC INT TRAVEL TIME (msec)	140	DELTA TIME (usec/ft) (usec/ft) 40
6	CALIPER (in)	16		30	SONIC POROSITY (pu) -10
6	BIT SIZE	16		15000	LINE TENSION (lb) 0

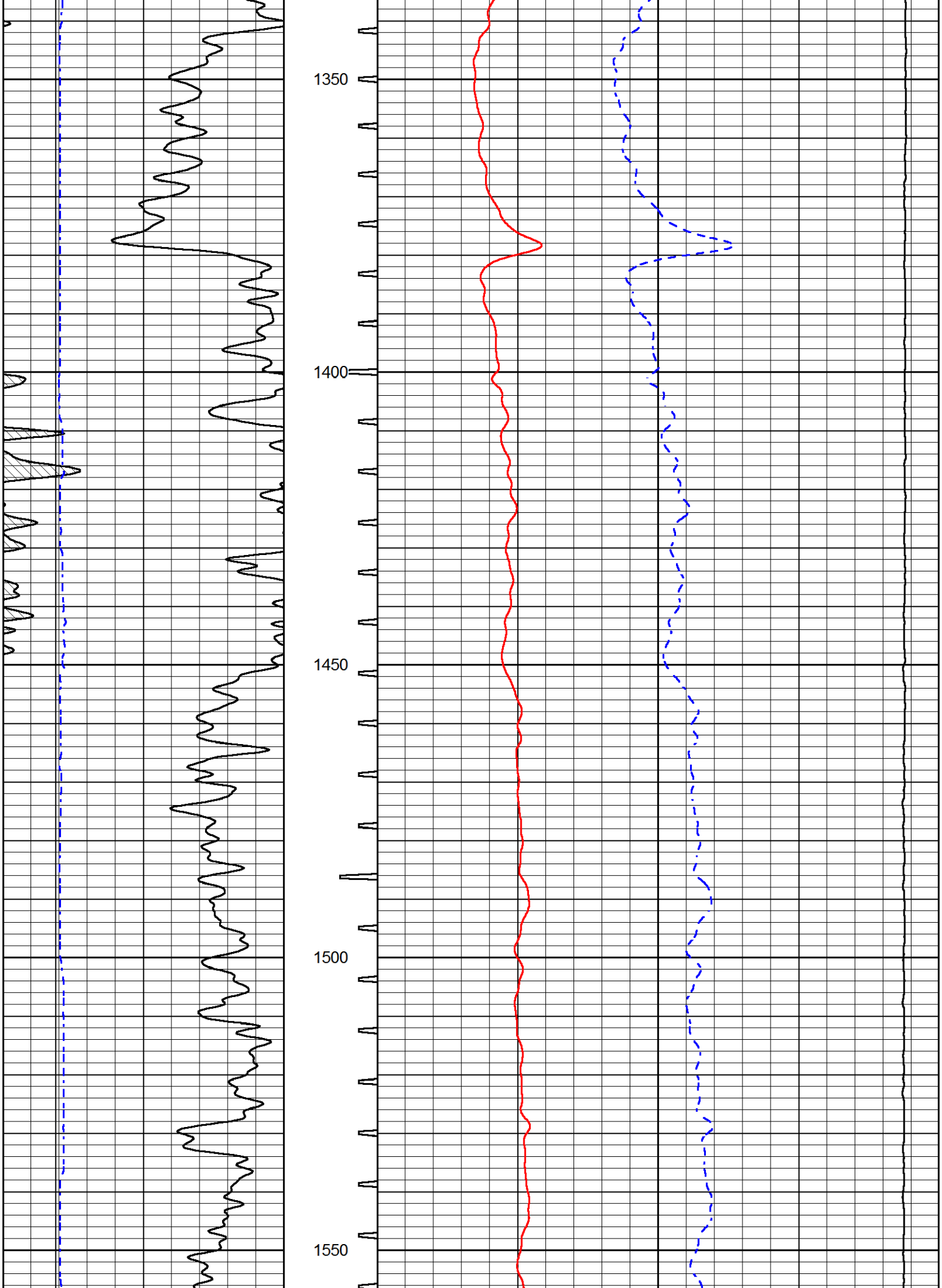


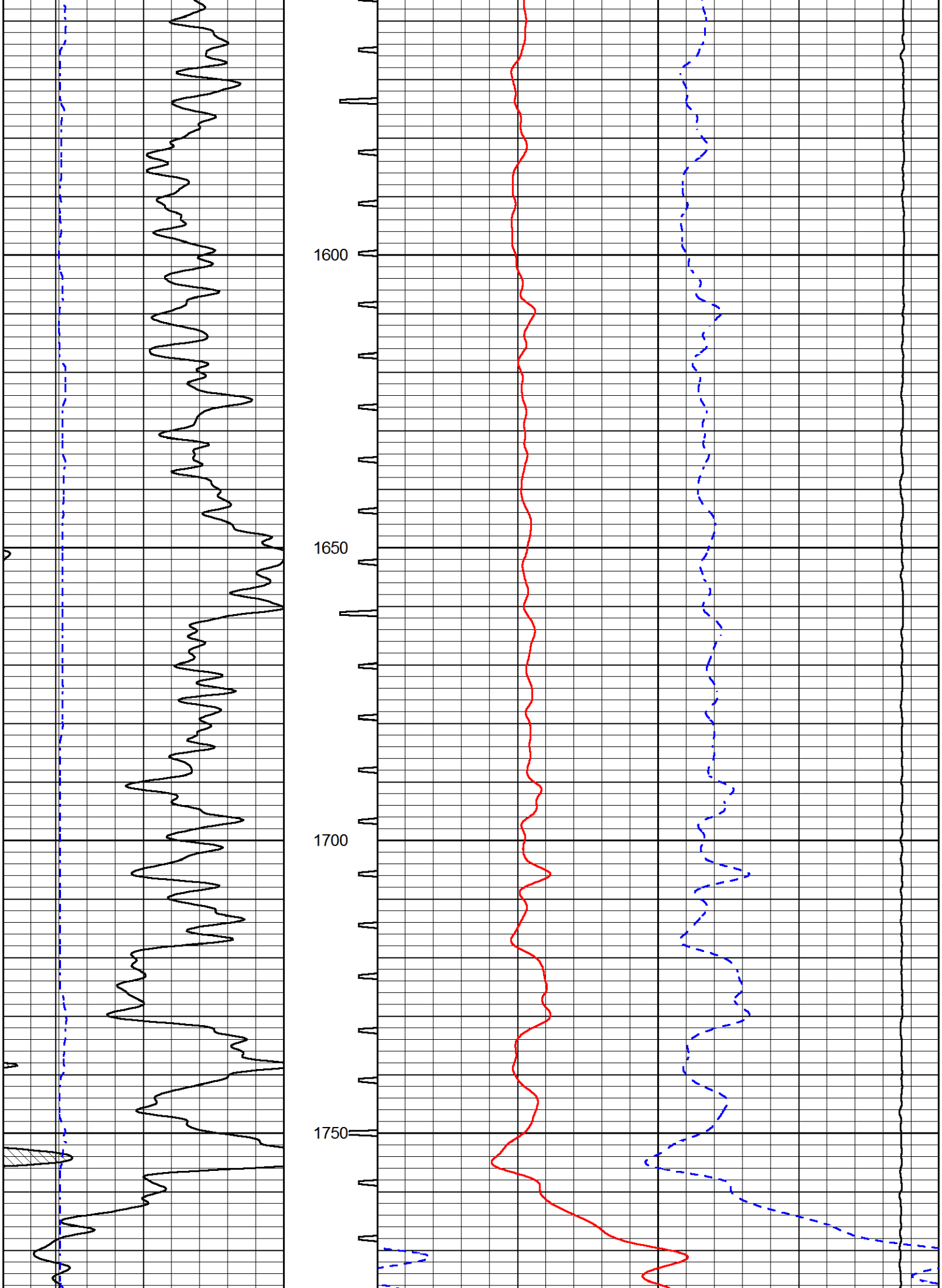

500
550
600
650

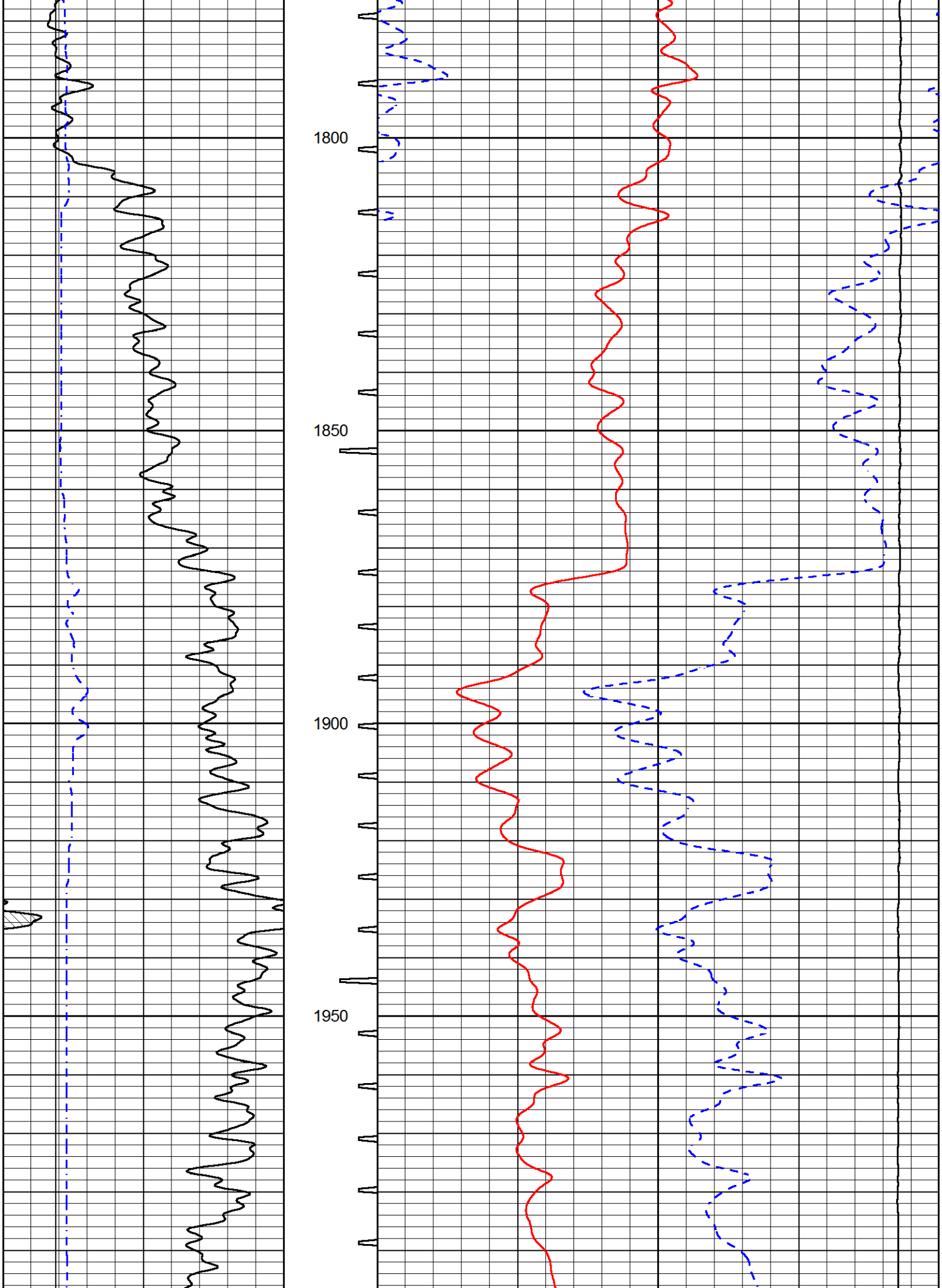

700
750
800
850

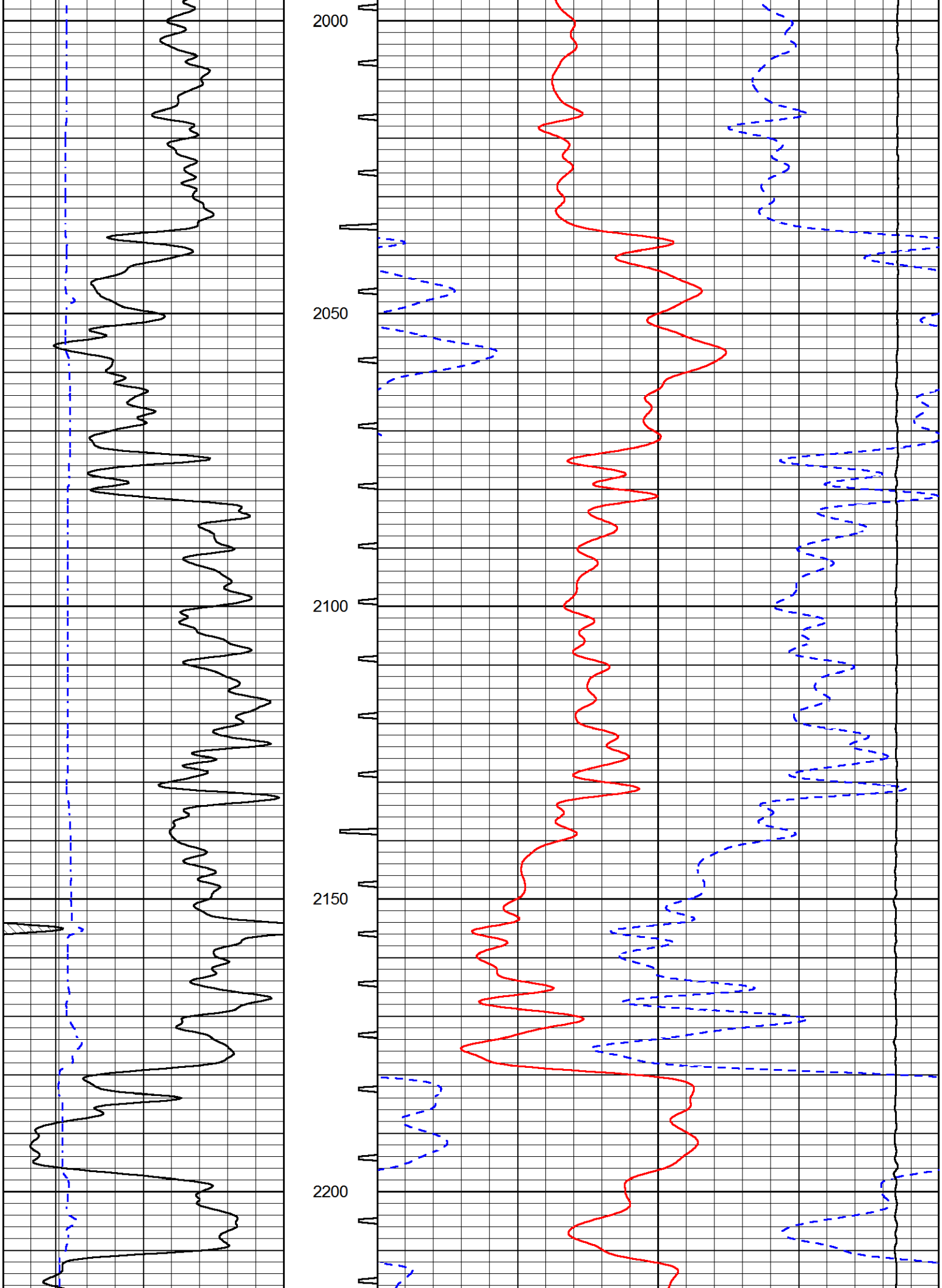

900
950
1000
1050
1100

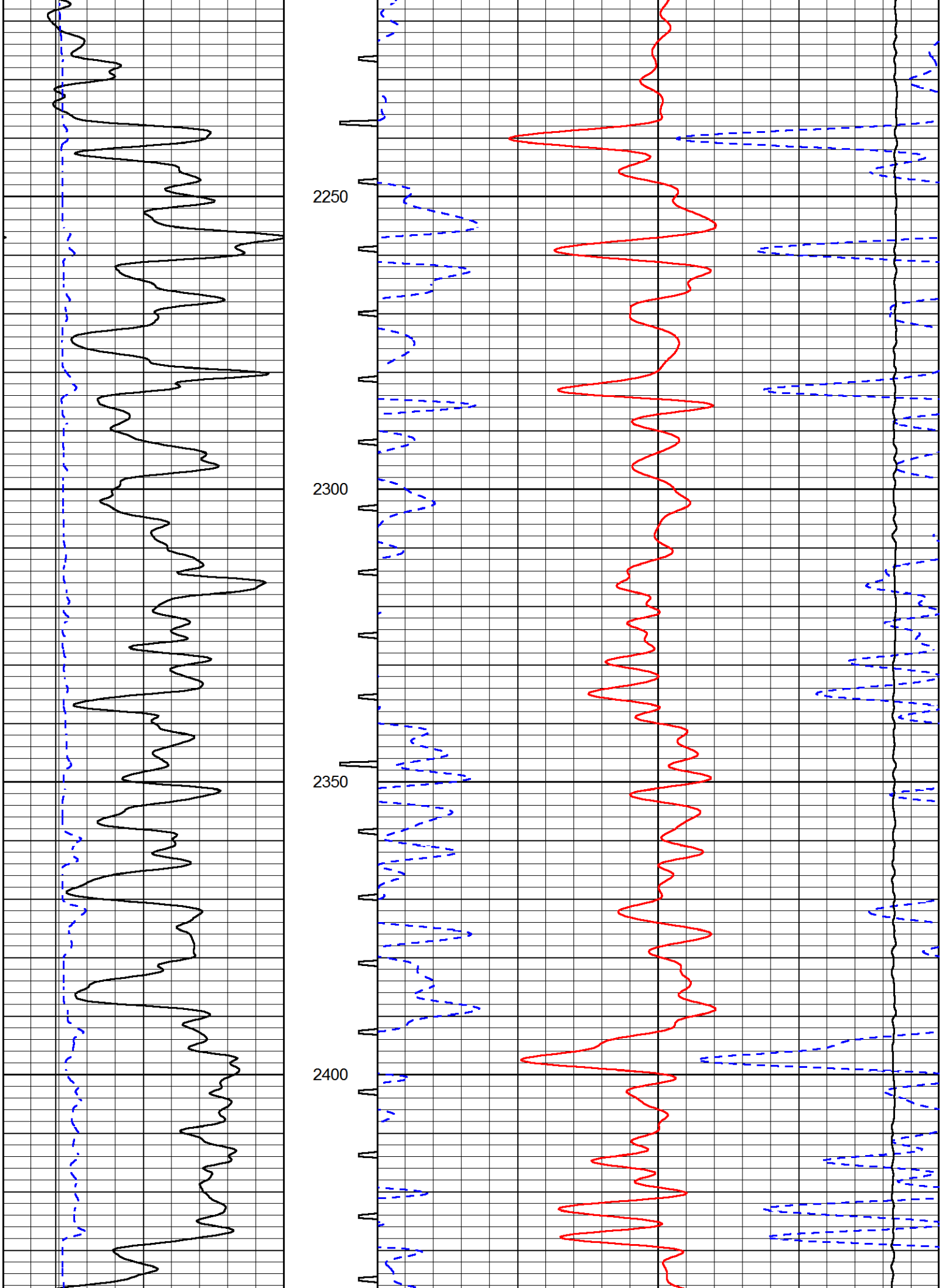

1150
1200
1250
1300

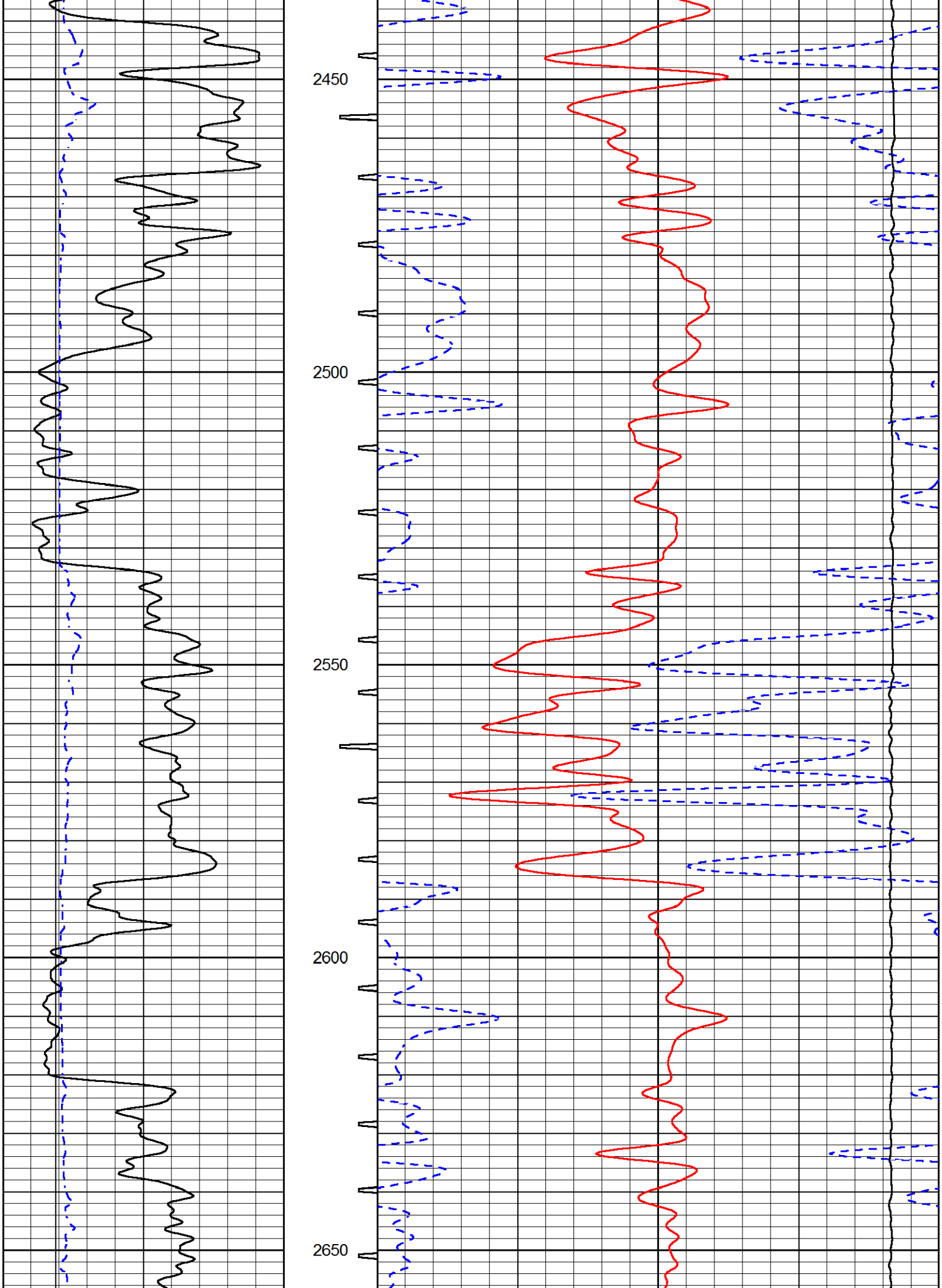

1350
1400
1450
1500
1550

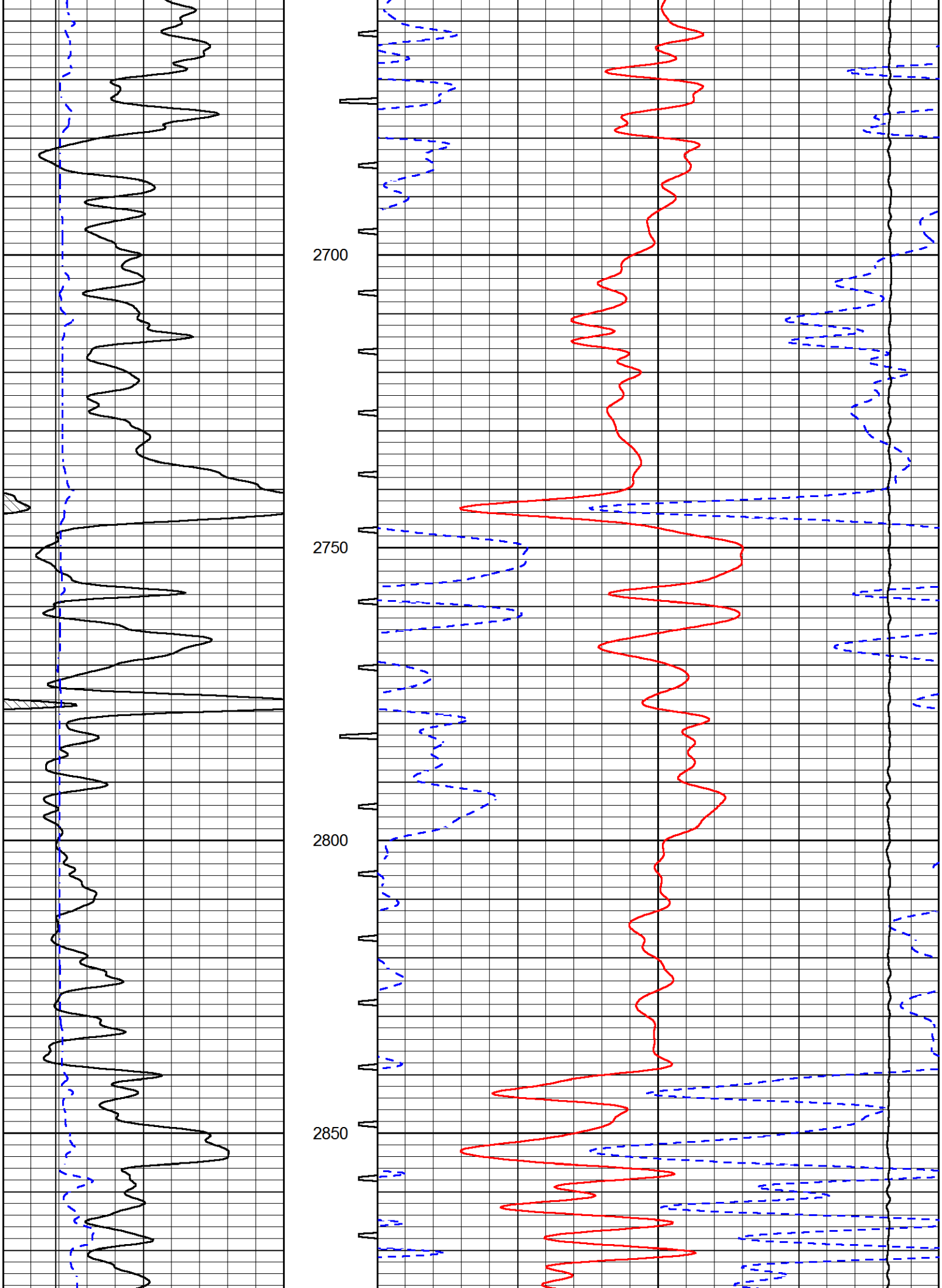

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1650
1700
1750

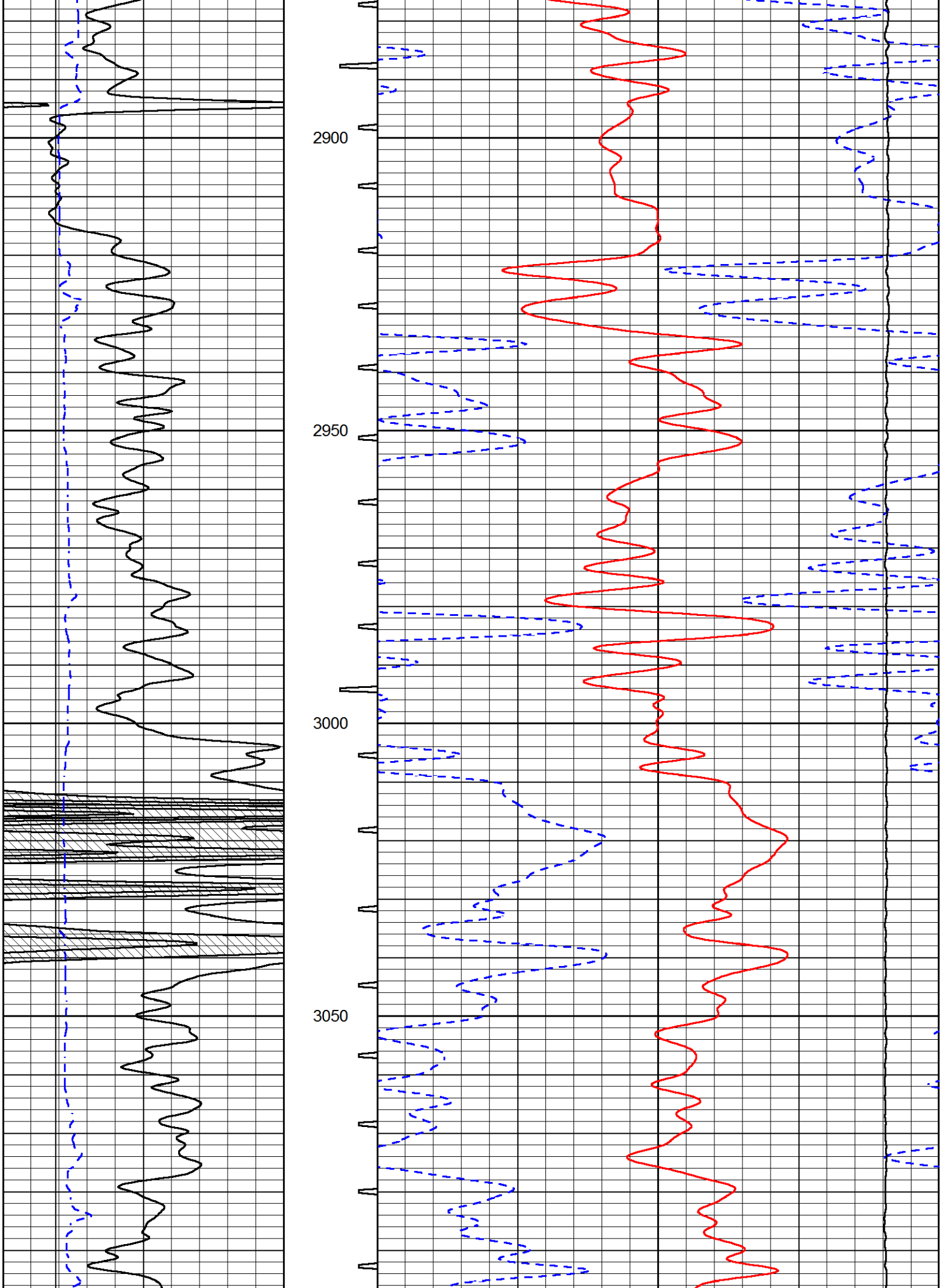

1800
1850
1900
1950

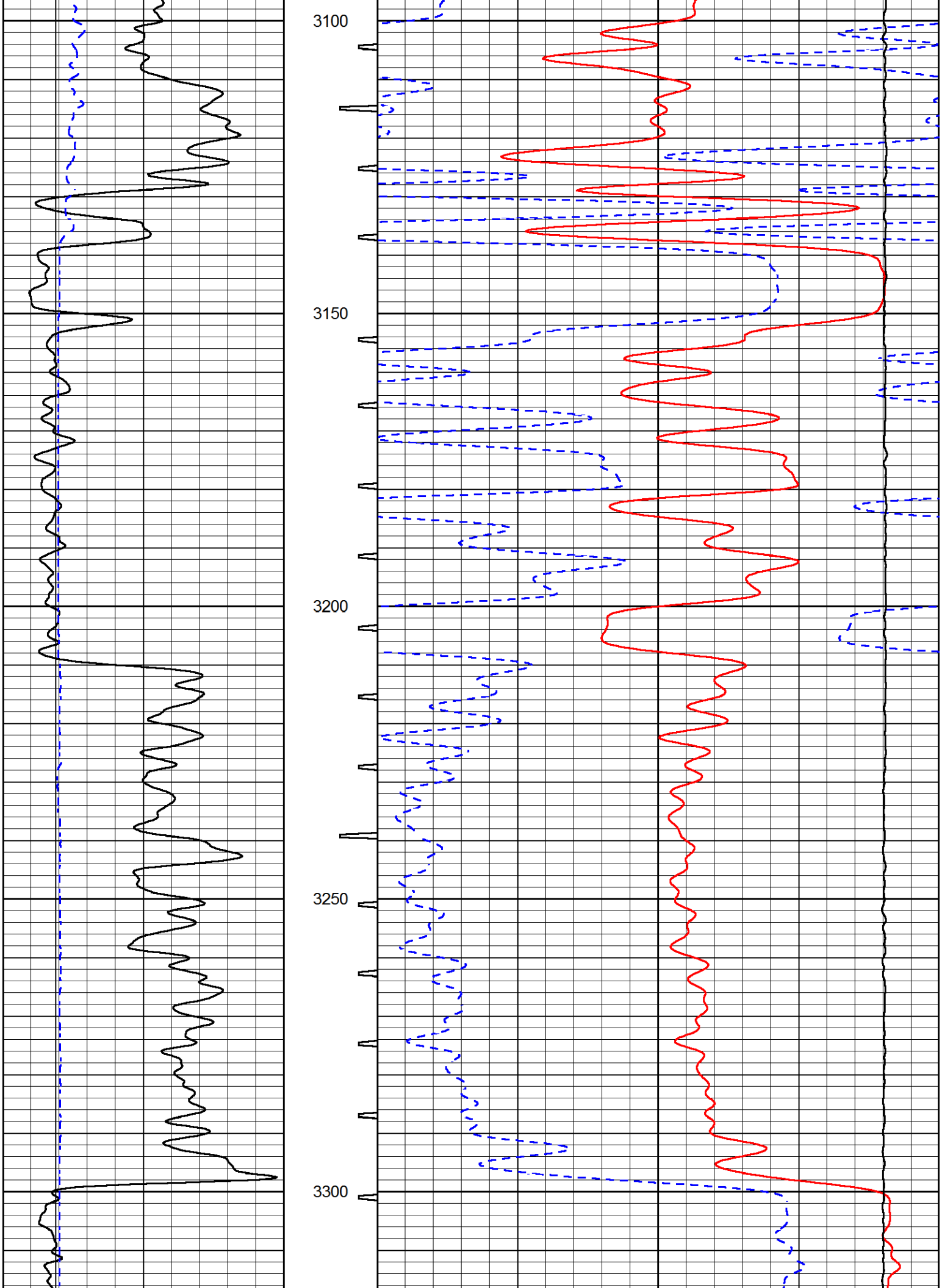

2000
2050
2100
2150
2200

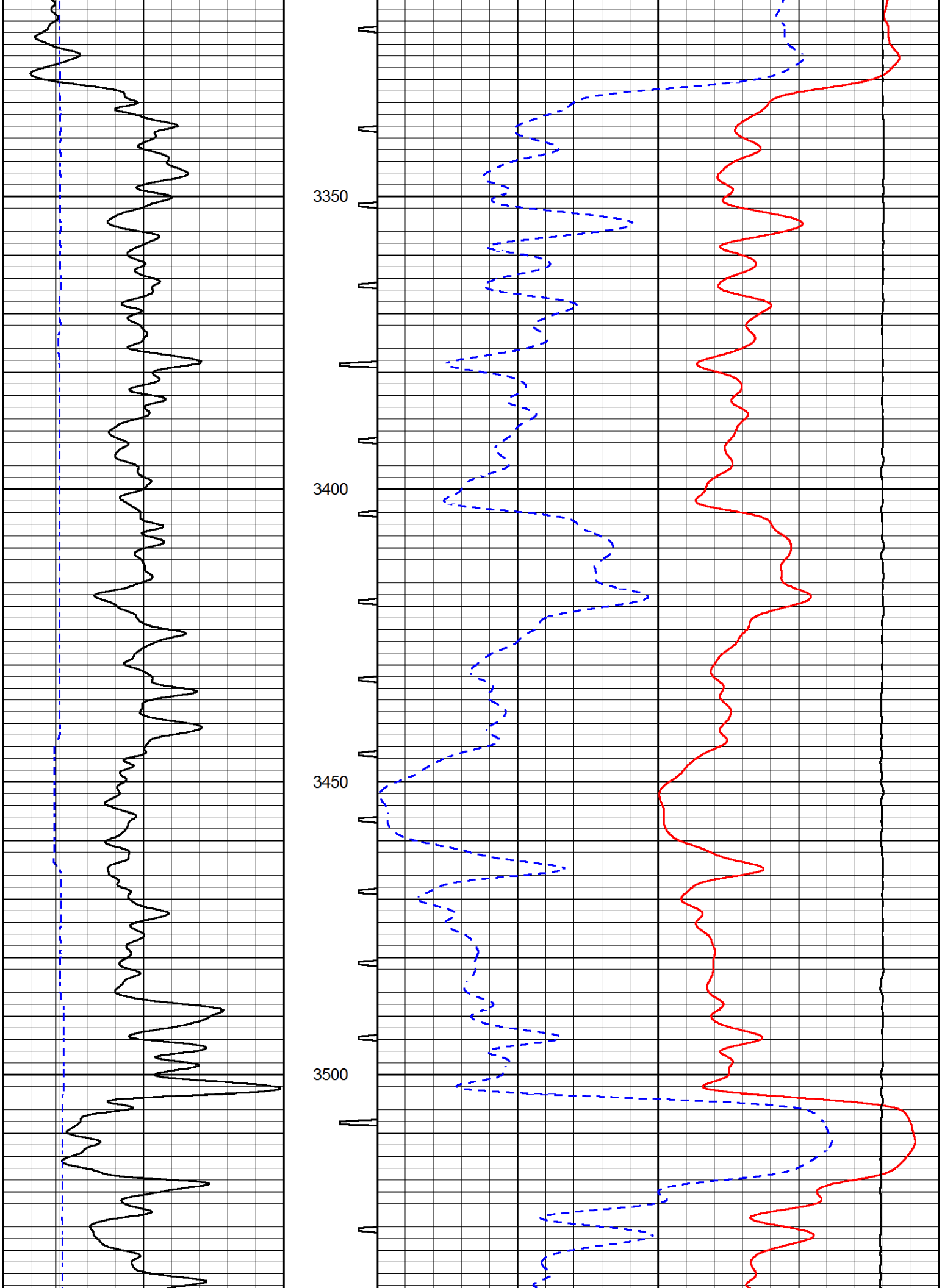

2250
2300
2350
2400

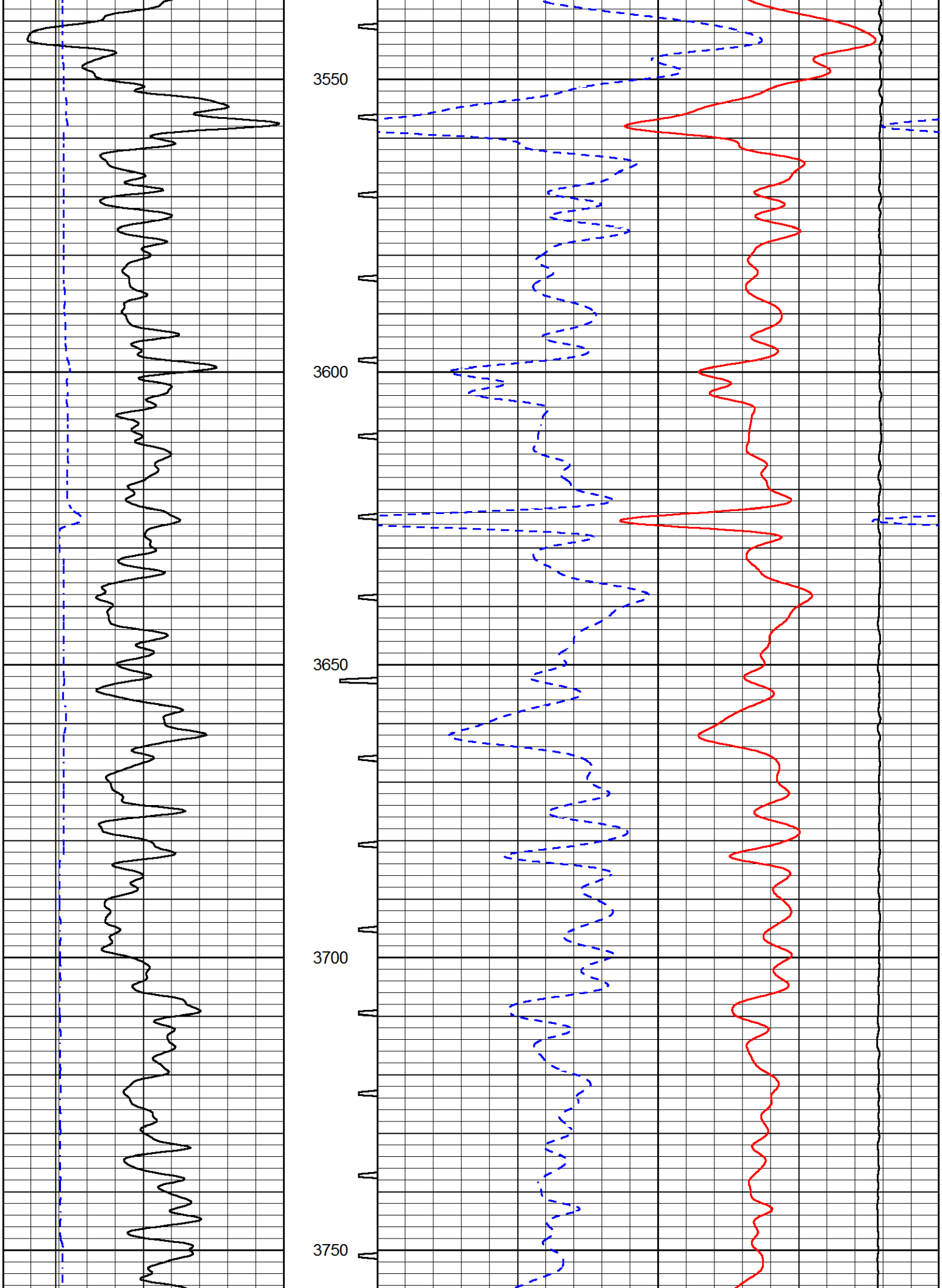

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2500
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2600
2650

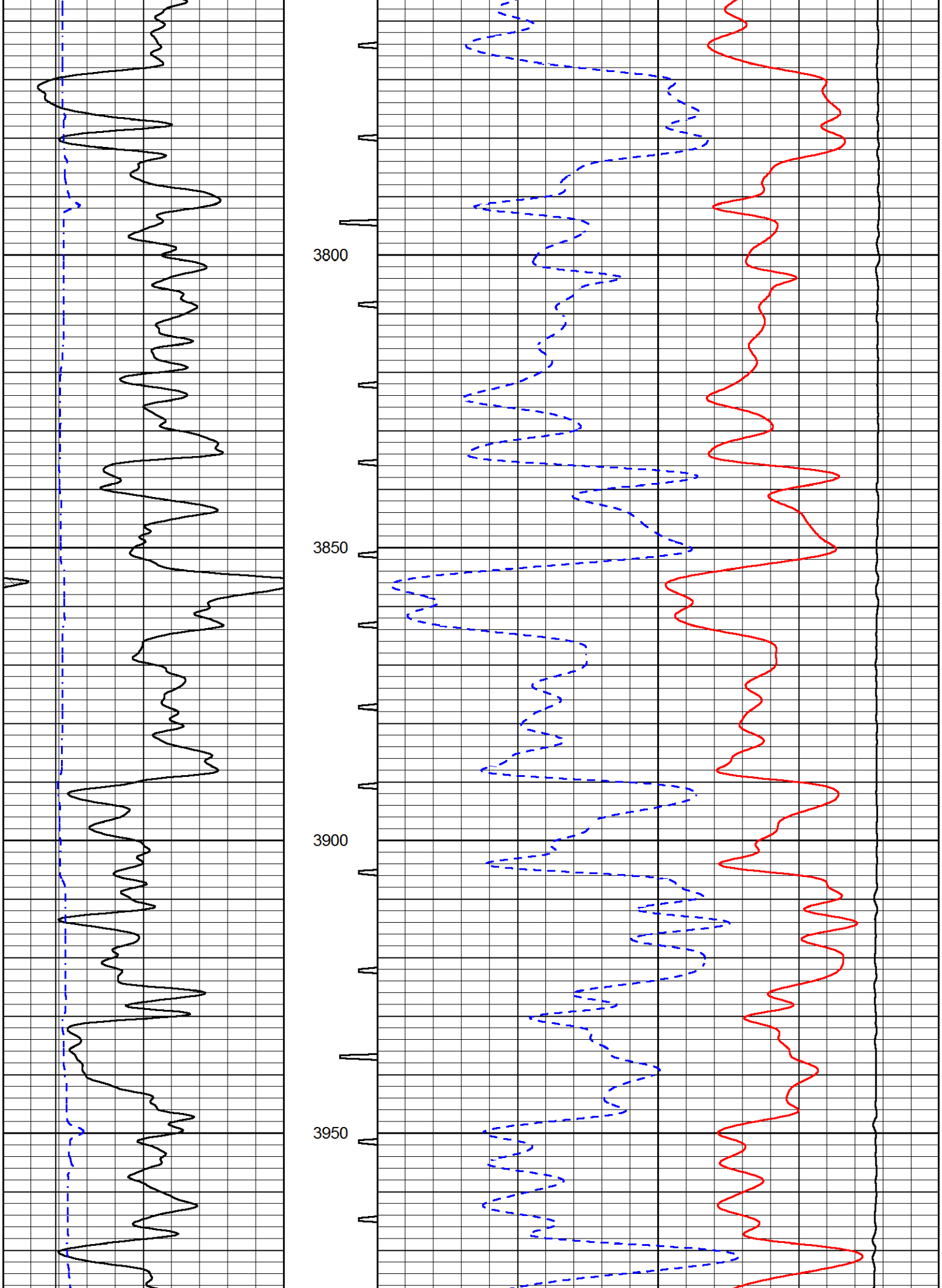

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2750
2800
2850

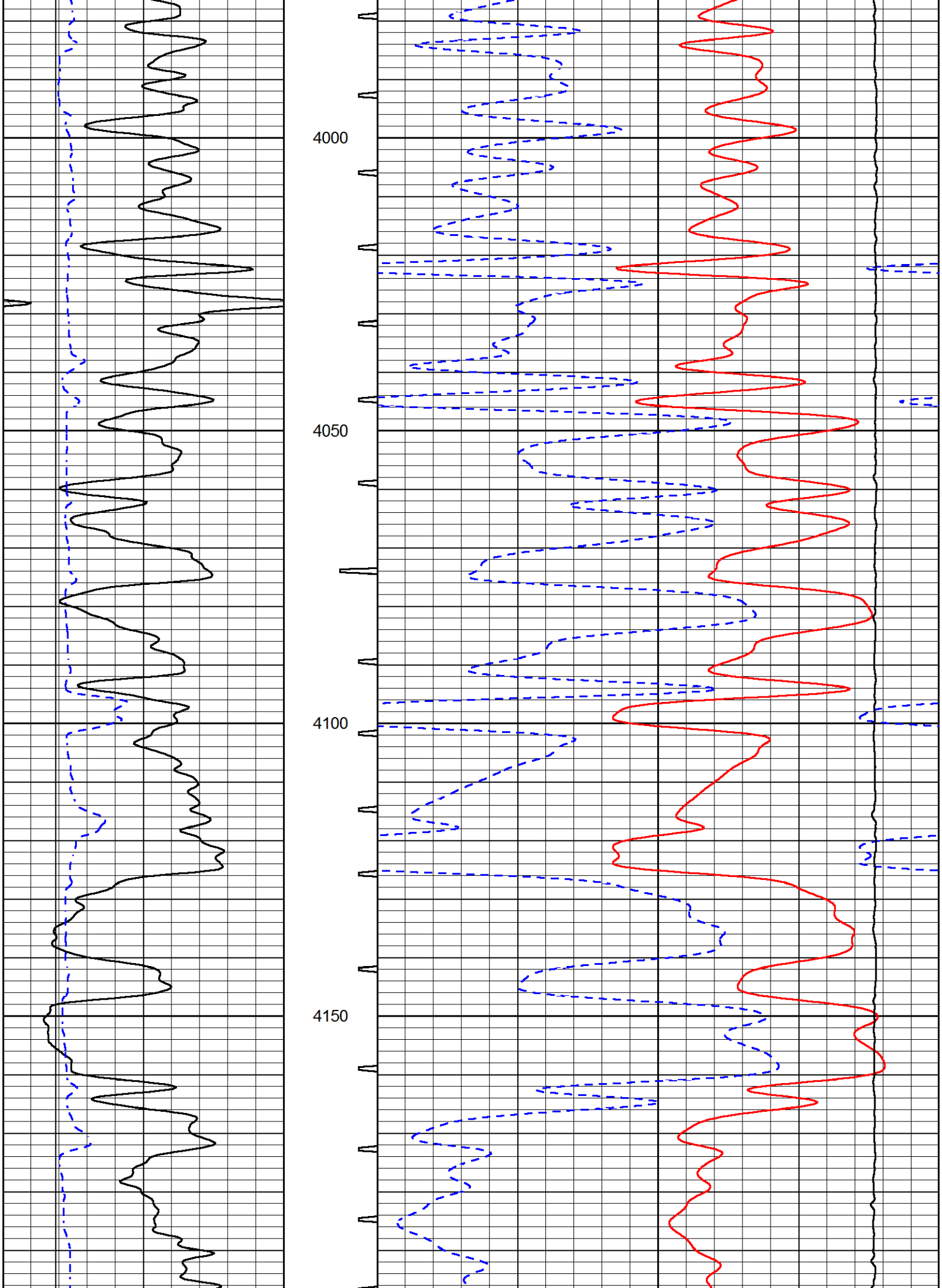

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2950
3000
3050

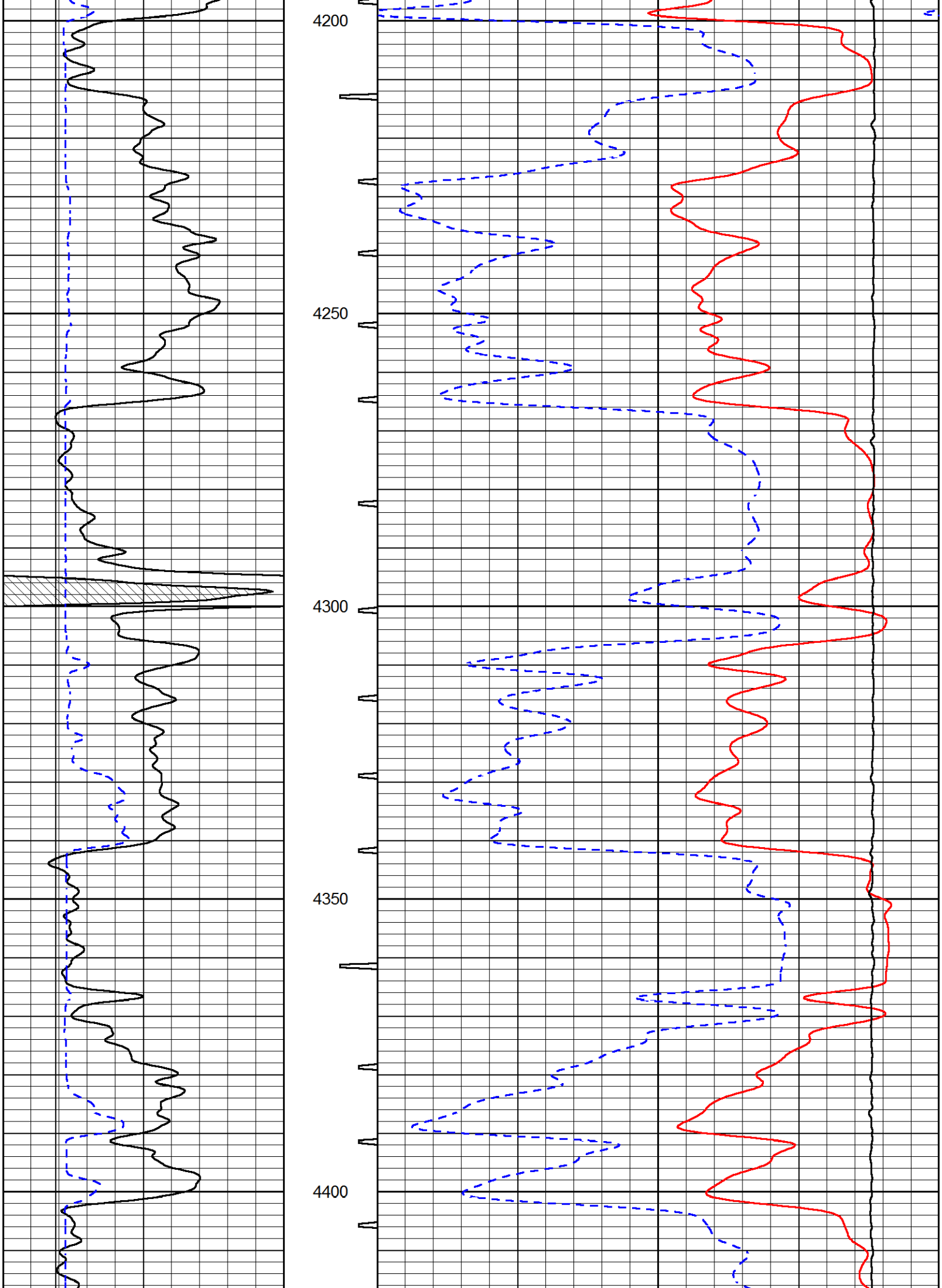

3100
3150
3200
3250
3300

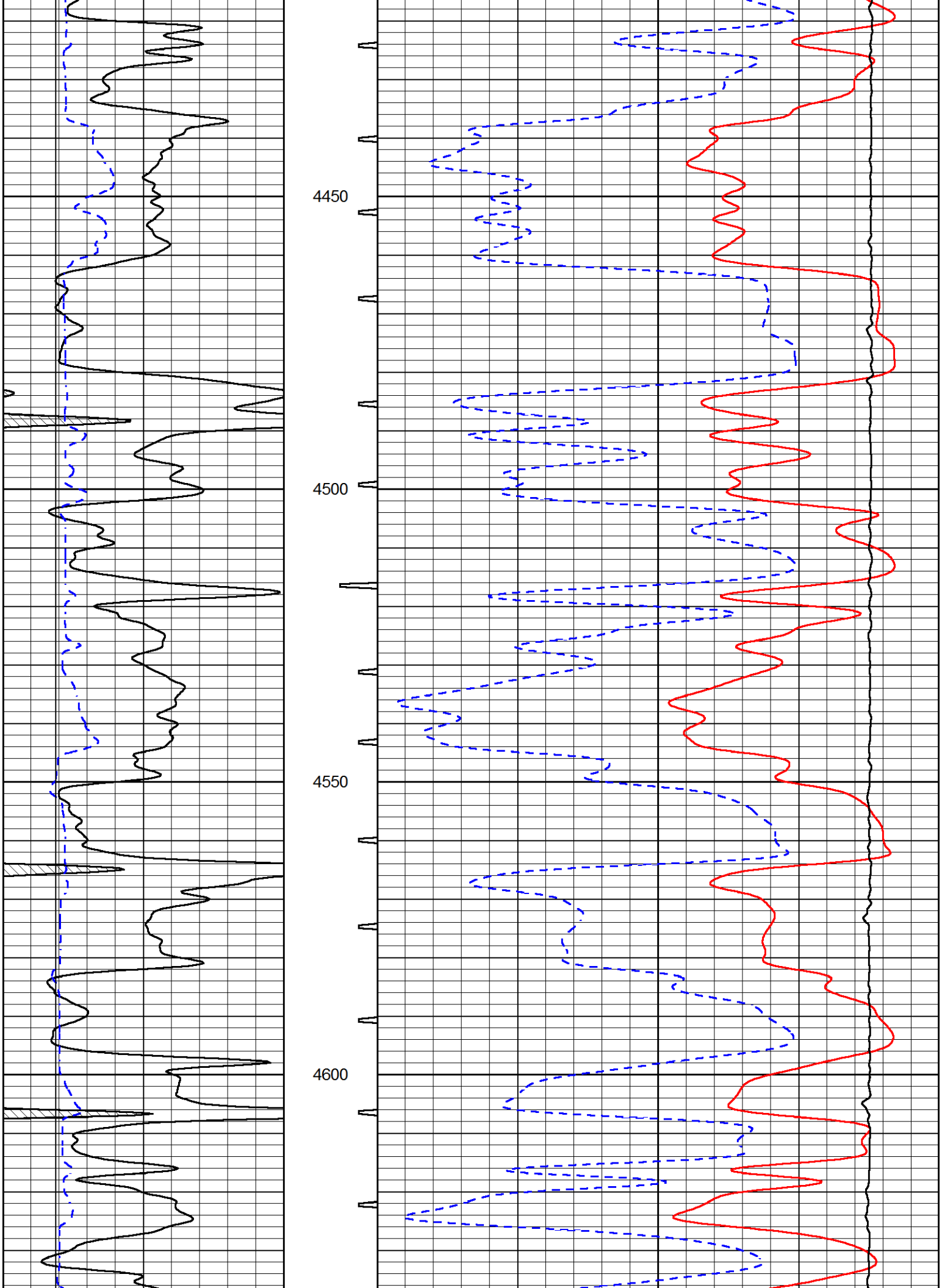

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3400
3450
3500

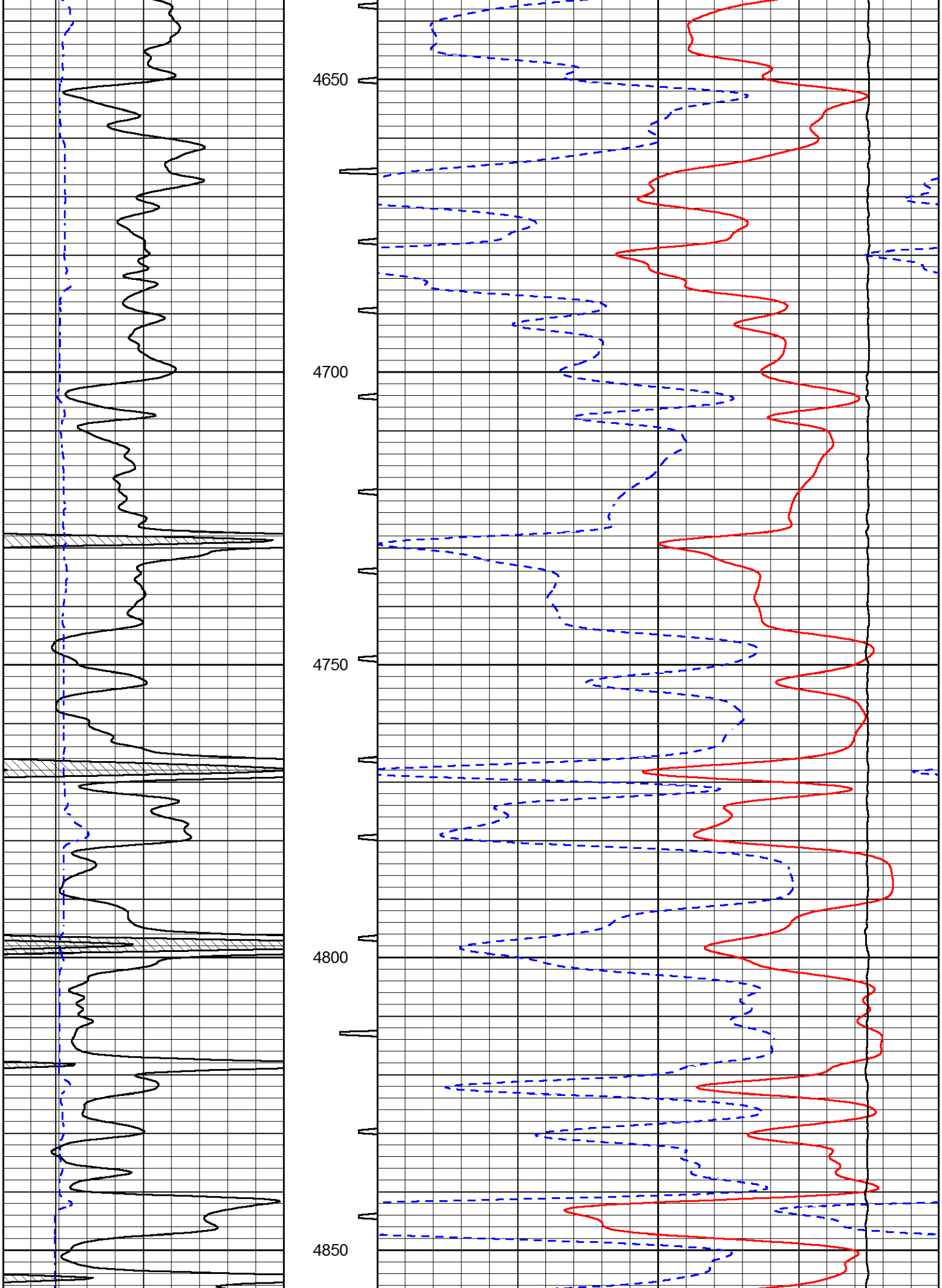

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3600
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3700
3750

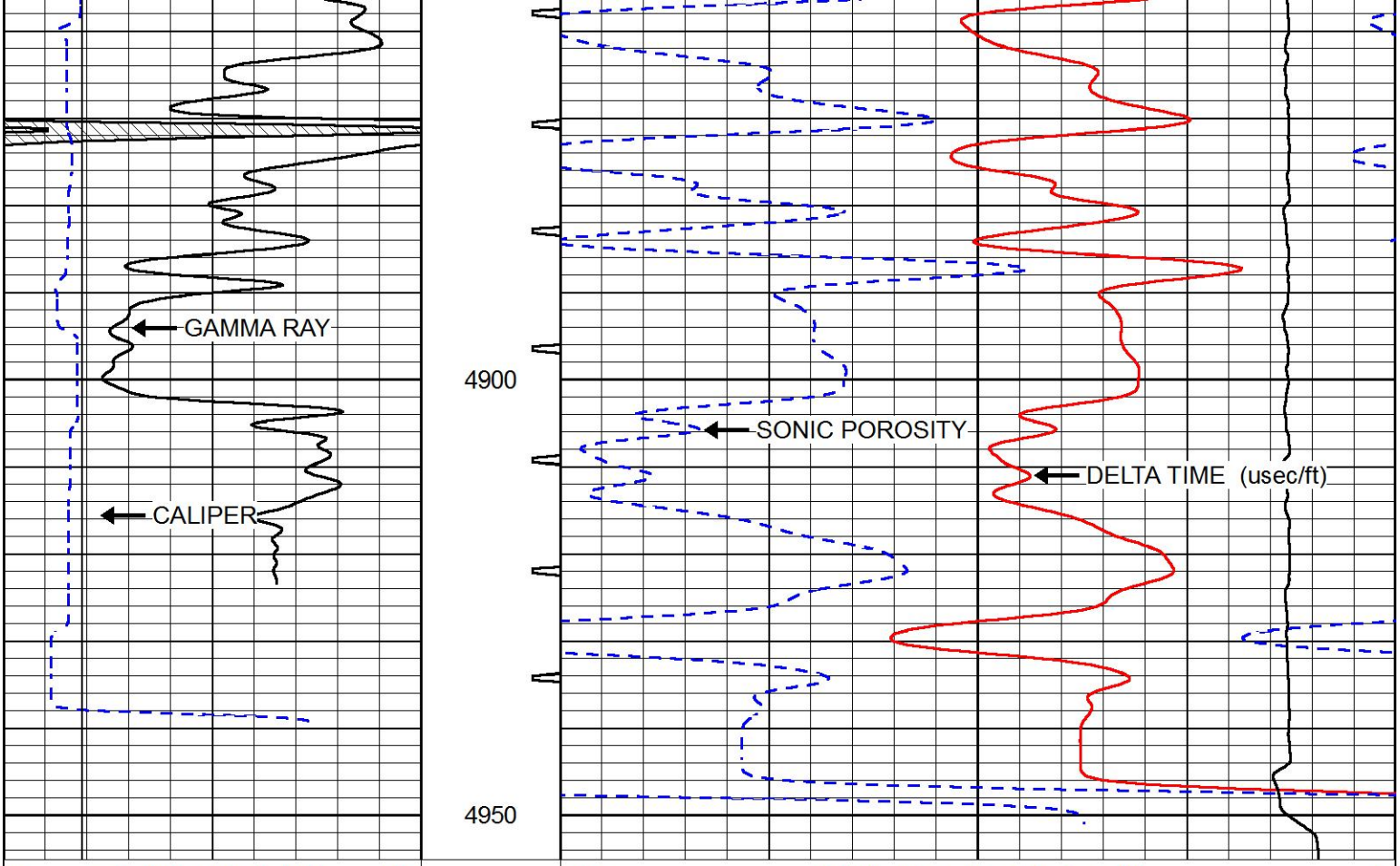

3800
3850
3900
3950


4000
4050
4100
4150


4200
4250
4300
4350
4400


4450
4500
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4700
4750
4800
4850



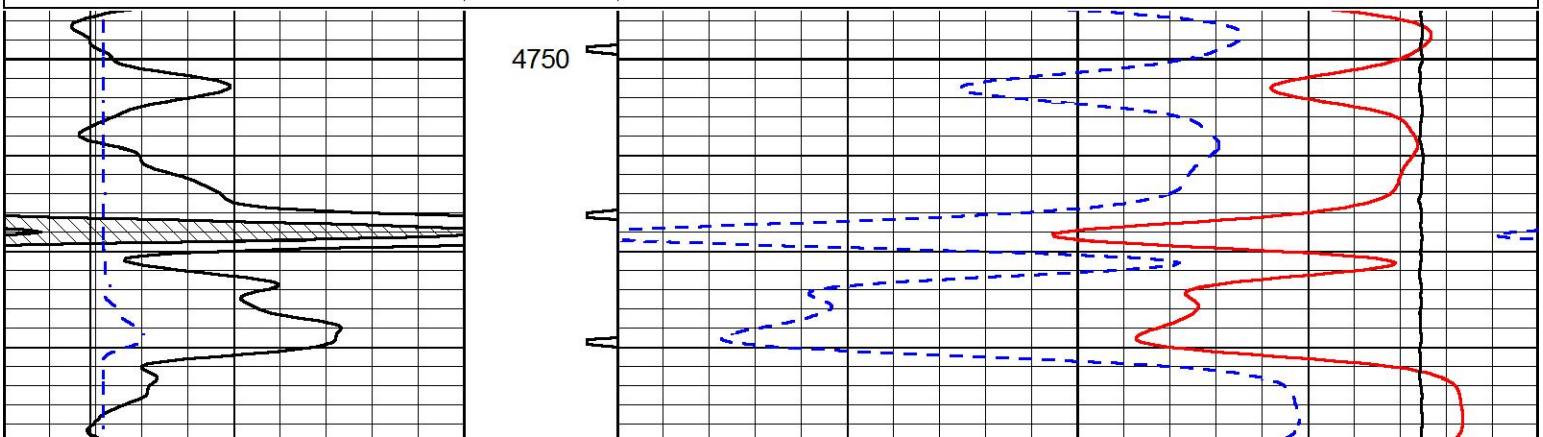
0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

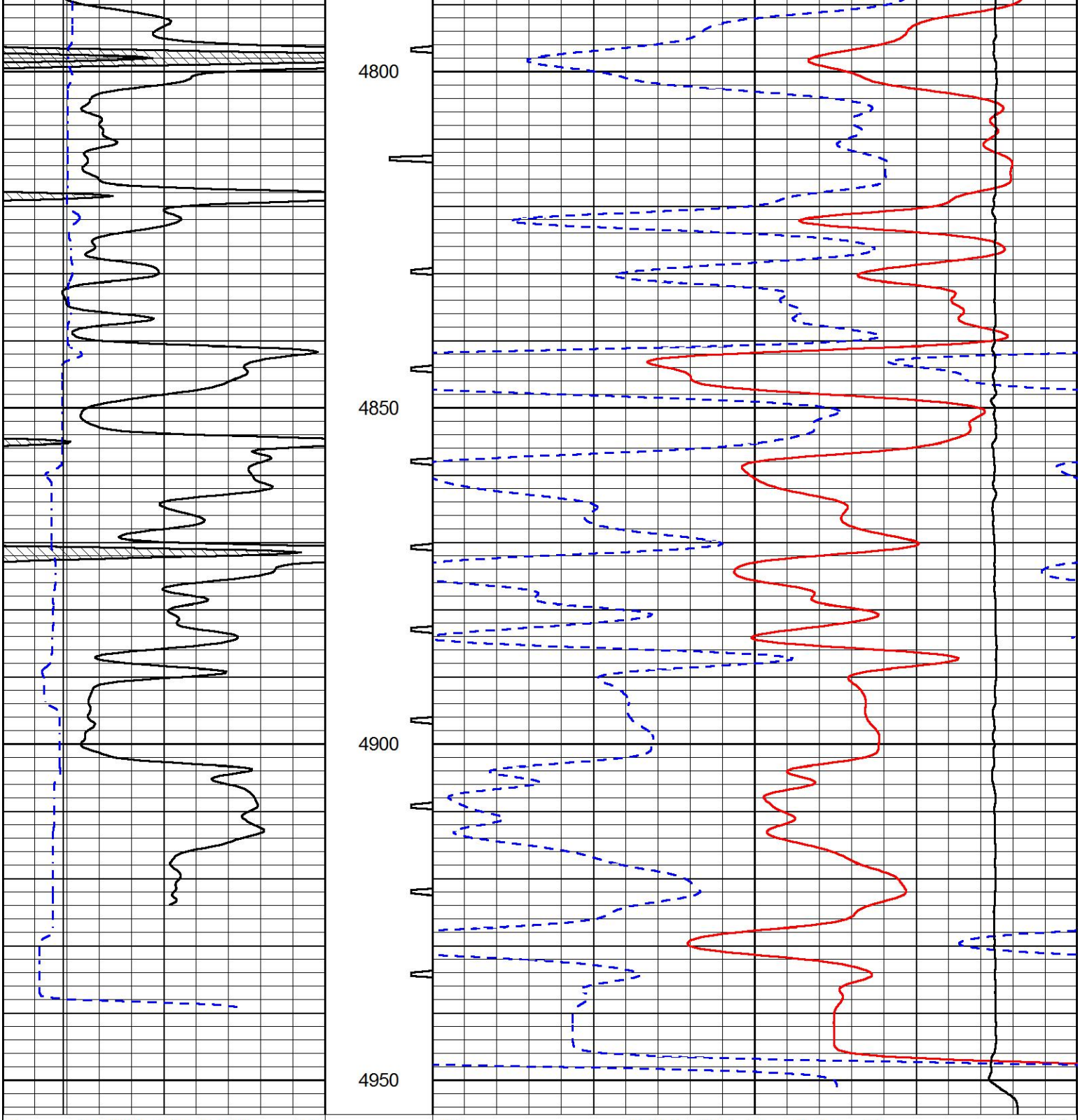
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REPEAT SECTION

Database File	murfin_banister_a_3_22.db
Dataset Pathname	stack/pass2.1
Presentation Format	sonic
Dataset Creation	Tue May 28 12:04:01 2019
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0





0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft) 40
6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu) -10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb) 0

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Field	WILDCAT
County	CHEYENNE
State	KANSAS