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BOREHOLE COMPENSATED SONIC LOG

Company MURFIN DRILLING COMPANY, INC.
Well KEN NO. 4-17
Field WILDCAT
County RAWLINS State KANSAS
Location: API #: 15-153-21207-00-00
330' FNL & 1970' FWL
SEC 17 TWP 1S RGE 35W
Permanent Datum GROUND LEVEL Elevation 3184'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Other Services: DIL/MEL, CNL/CDL

Elevation: K.B. 3189', D.F. N/A, G.L. 3184'

Company	MURFIN DRILLING COMPANY, INC.
Well	KEN NO. 4-17
Field	WILDCAT
County	RAWLINS
State	KANSAS
Date	5/9/2018
Run Number	TWO
Type Log	BHCS
Depth Driller	4500'
Depth Logger	4494'
Bottom Logged Interval	4483'
Top Logged Interval	300'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	1000
Density	9.2
Level	FULL
Max. Rec. Temp. F	121 DEG/F
Operating Rig Time	4 HOURS
Equipment -- Location	108 HAYS
Recorded By	J. HENRICKSON
Witnessed By	CLAYTON ERICKSON

Borehole Record

Run No.	Bit	From	To
ONE	12.25"	0	302'
TWO	7.875"	302'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0	302'

<<< 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.

BEARDSLEY KANSAS
NORTH TO AA ROAD, WEST TO 7 ROAD, NORTH TO CC ROAD
3/4 EAST, SOUTH INTO

Log Measured From: KELLY BUSHING 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: CLAYTON ERICKSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_ken_4_17.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	121	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	-20	56	Off	0

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			GR-M&W (89-M&W)	3.00	3.50	50.00
GR	33.00					
CNLSC	29.90		CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	29.15					
			CDL-M&W (168-986)	8.50	4.00	250.00
LSD	20.85					
DCAL	20.83					
SSD	20.35					
RLL3	15.80					
RLL3F	15.79					
			DIL-M&W (1987)	18.50	3.50	220.00
CILD	8.00					

CILM	4.70	
SP	0.20	

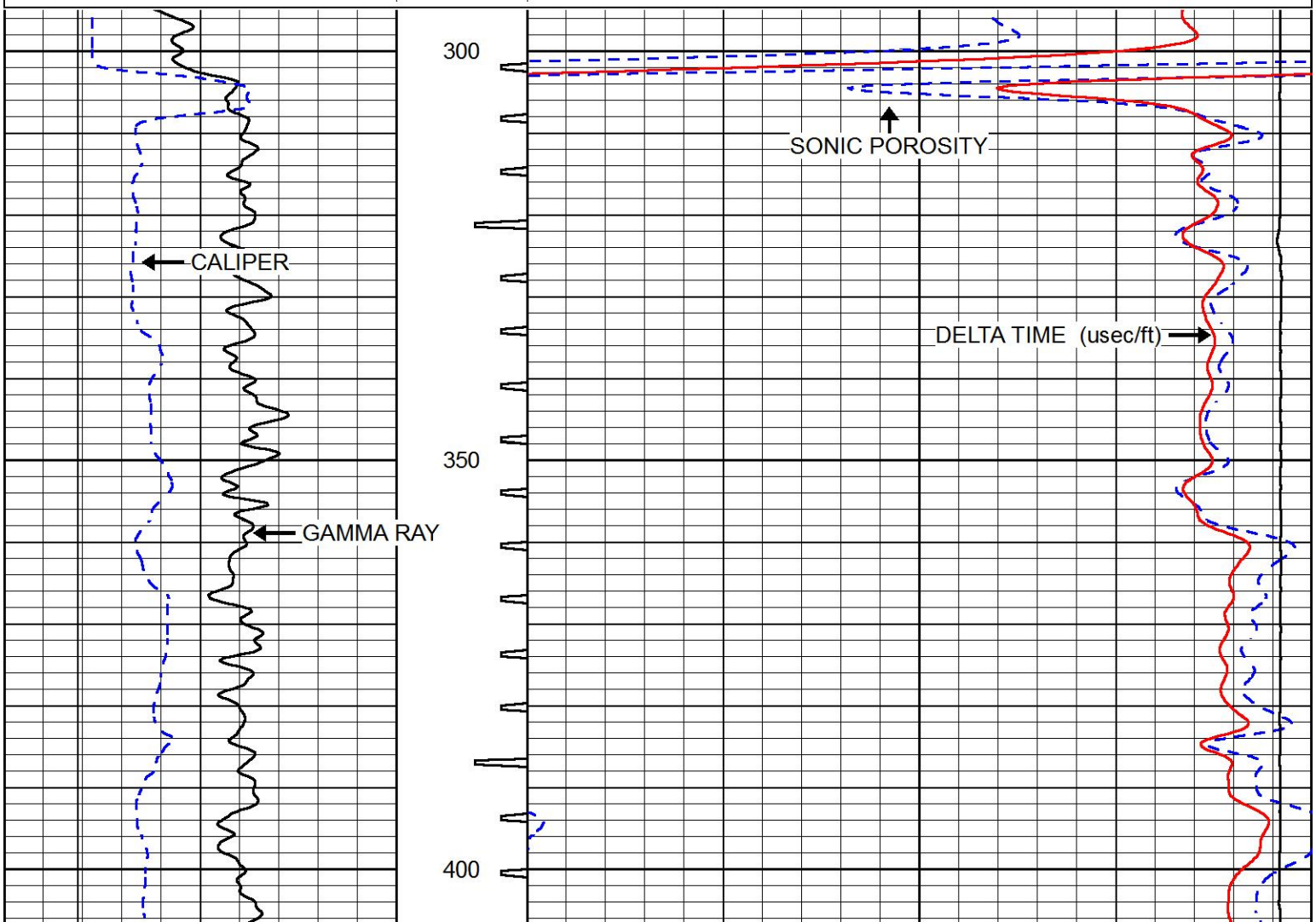
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Total length: 35.50 ft
Total weight: 620.00 lb
O.D.: 4.00 in

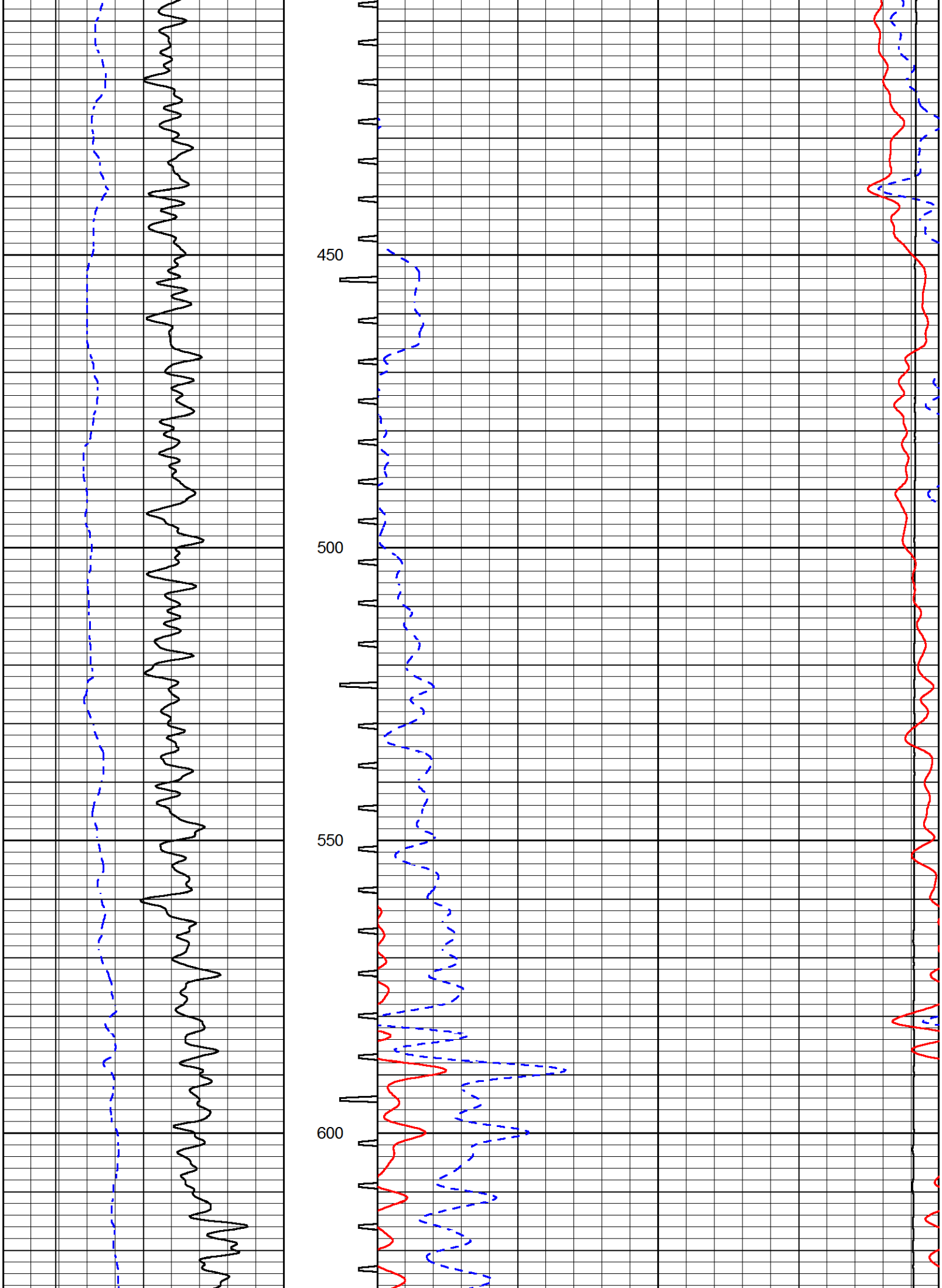
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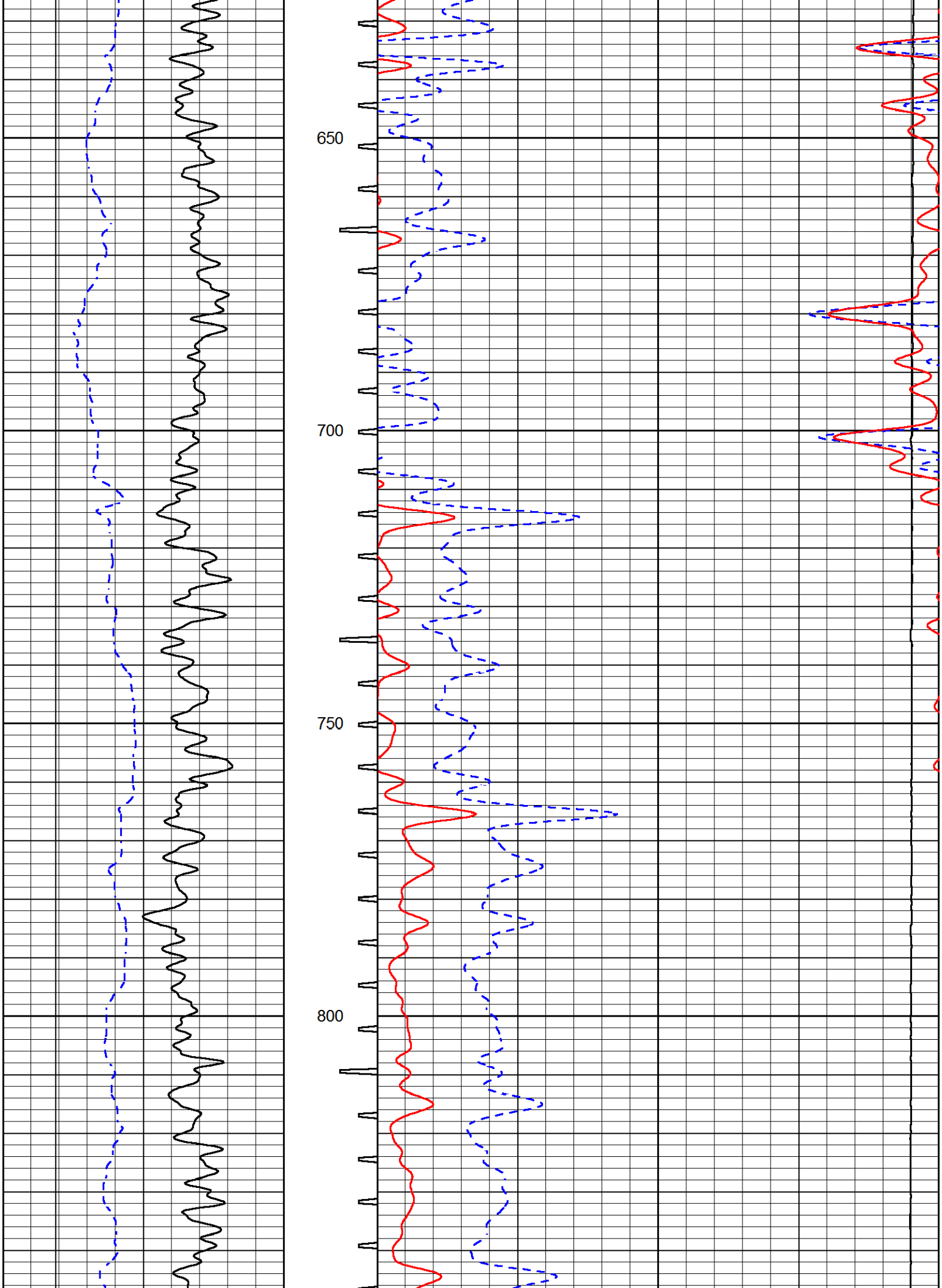
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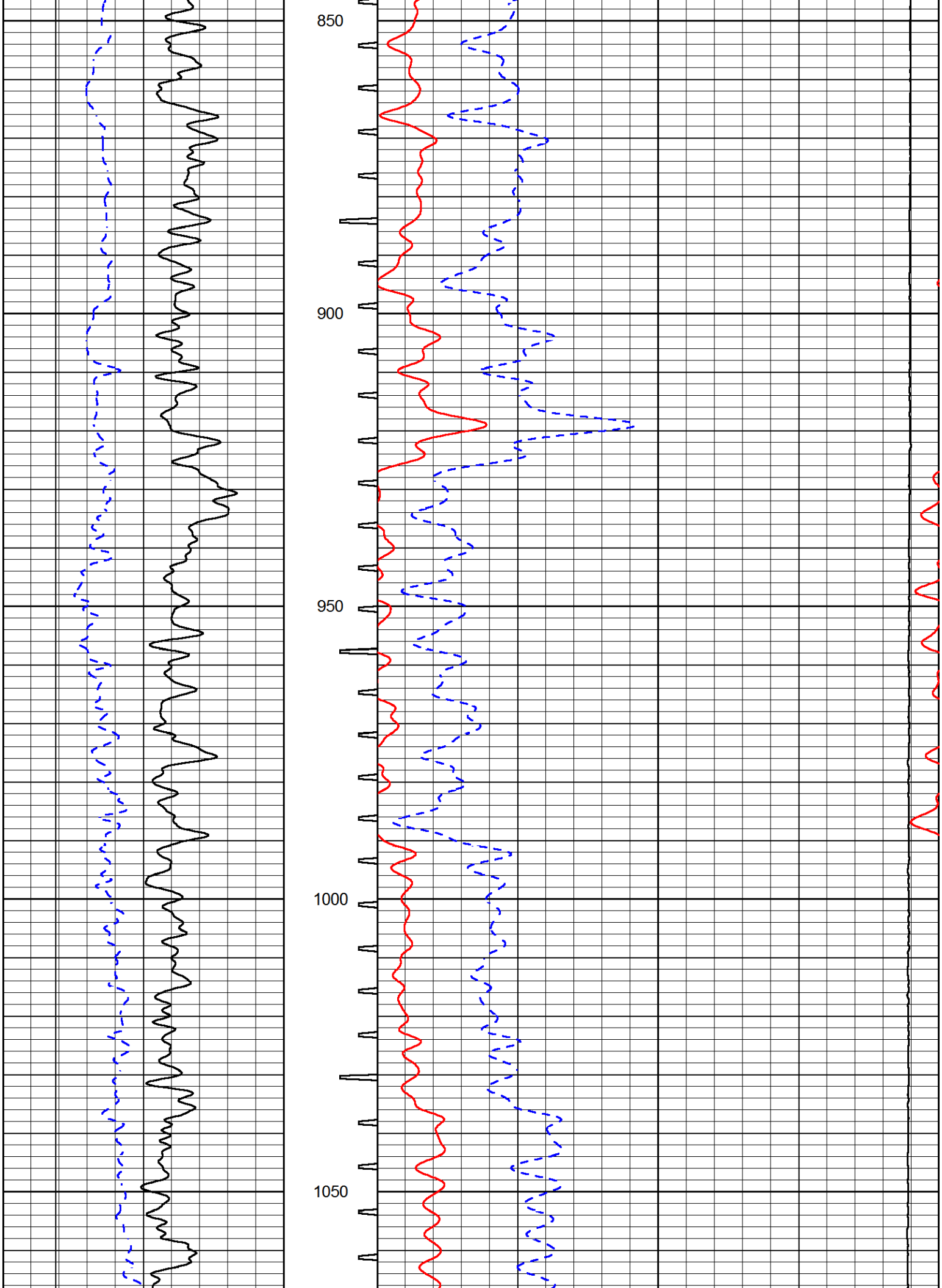
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Dataset Pathname	stackml/pass3.1
Presentation Format	sonic
Dataset Creation	Wed May 09 08:11:28 2018
Charted by	Depth in Feet scaled 1:240

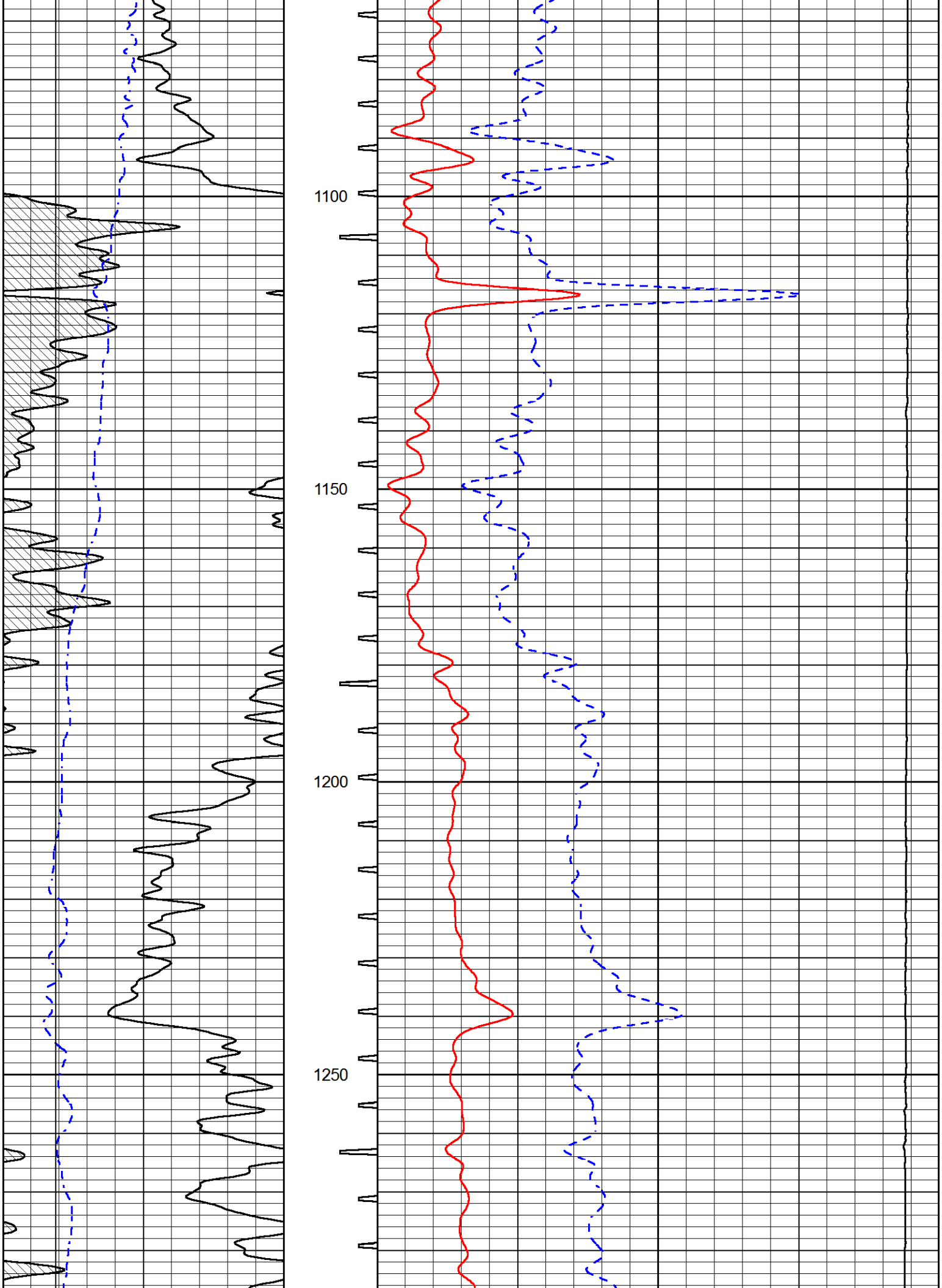
0	GAMMA RAY (GAPI)	150	SONIC INT TRAVEL TIME (msec)	140	DELTA TIME (usec/ft) (usec/ft) 40
6	CALIPER (in)	16		30	SONIC POROSITY (pu) -10
6	BIT SIZE	16		15000	LINE TENSION (lb) 0

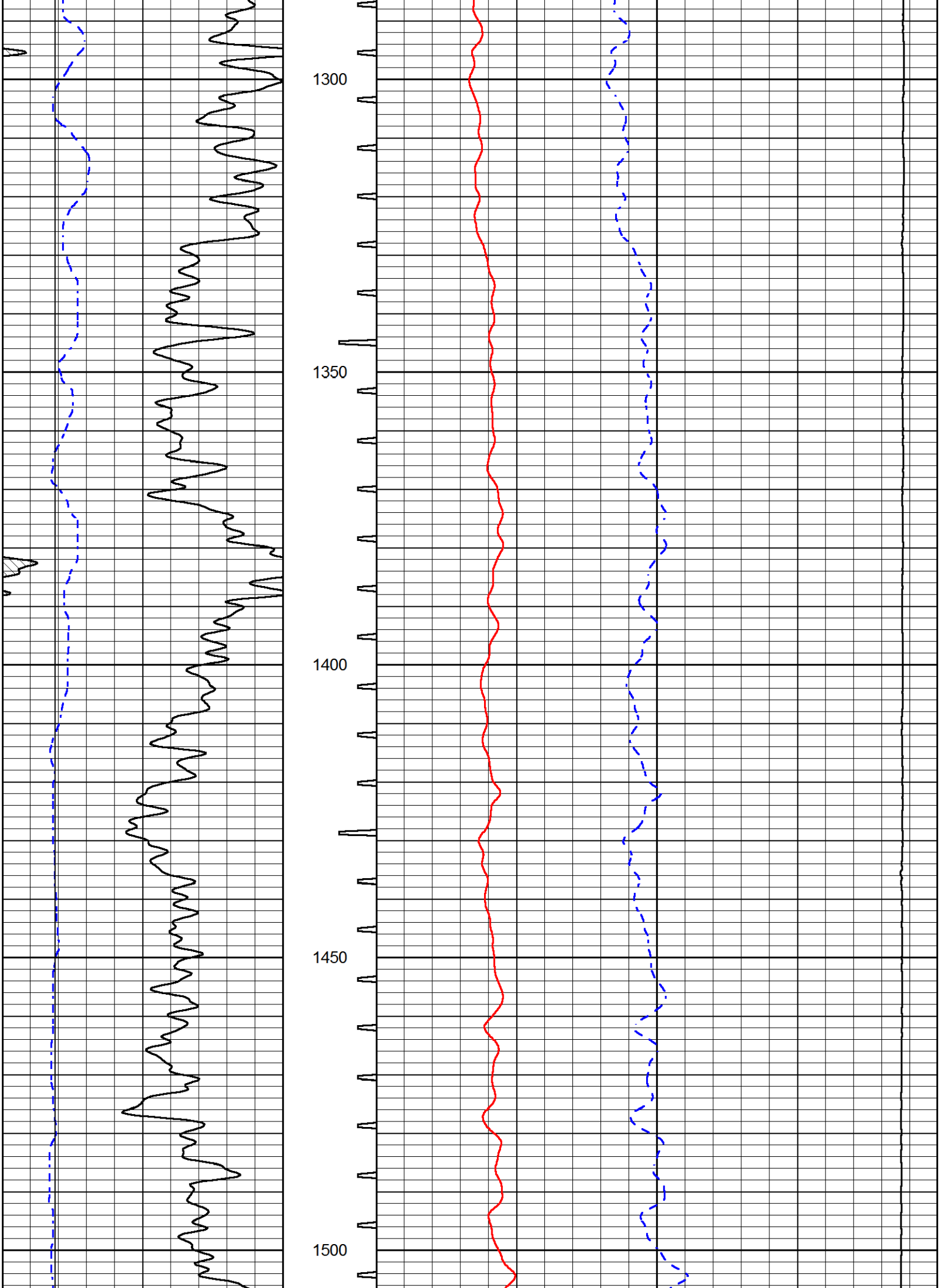


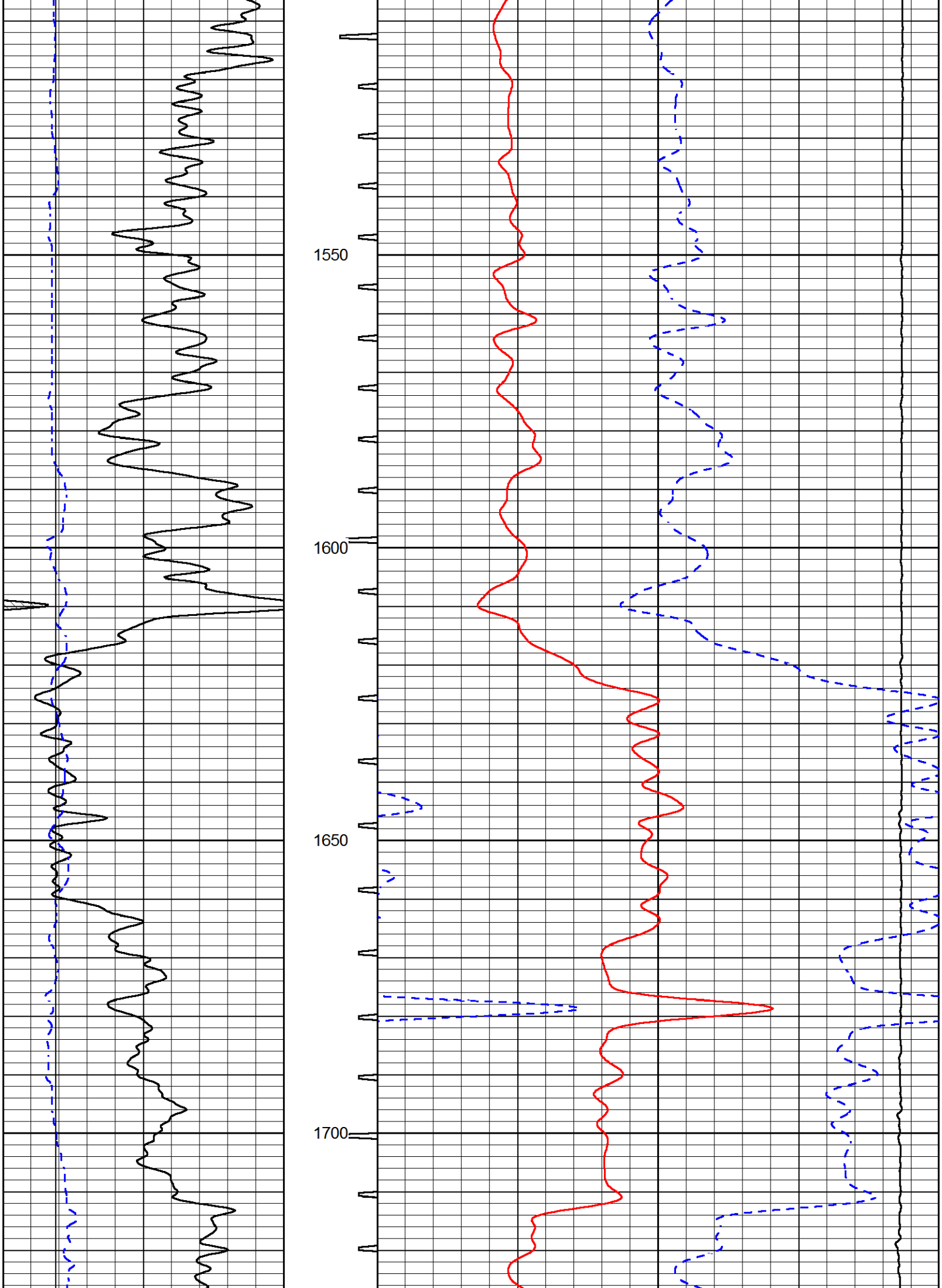

450
500
550
600

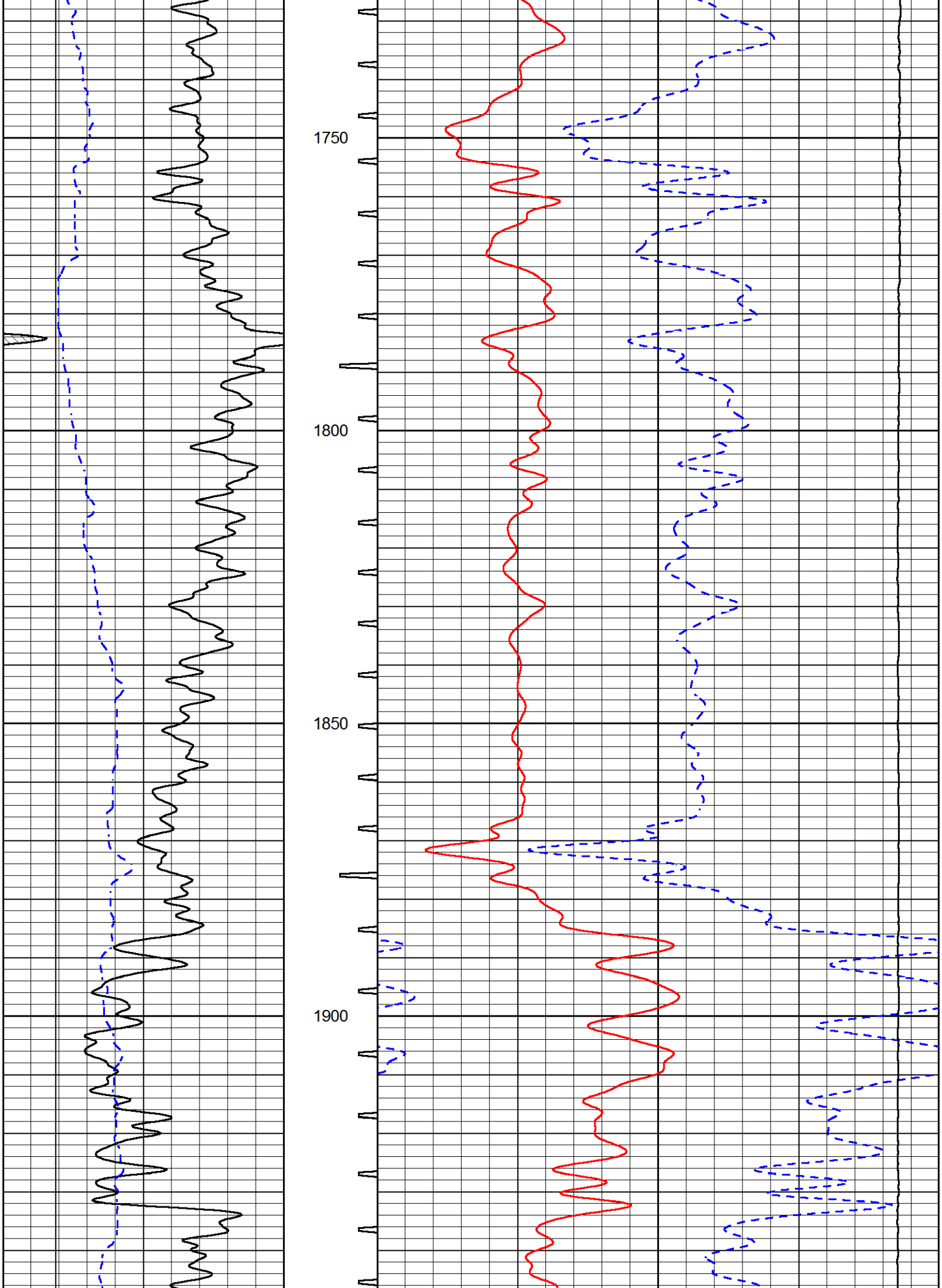

650
700
750
800

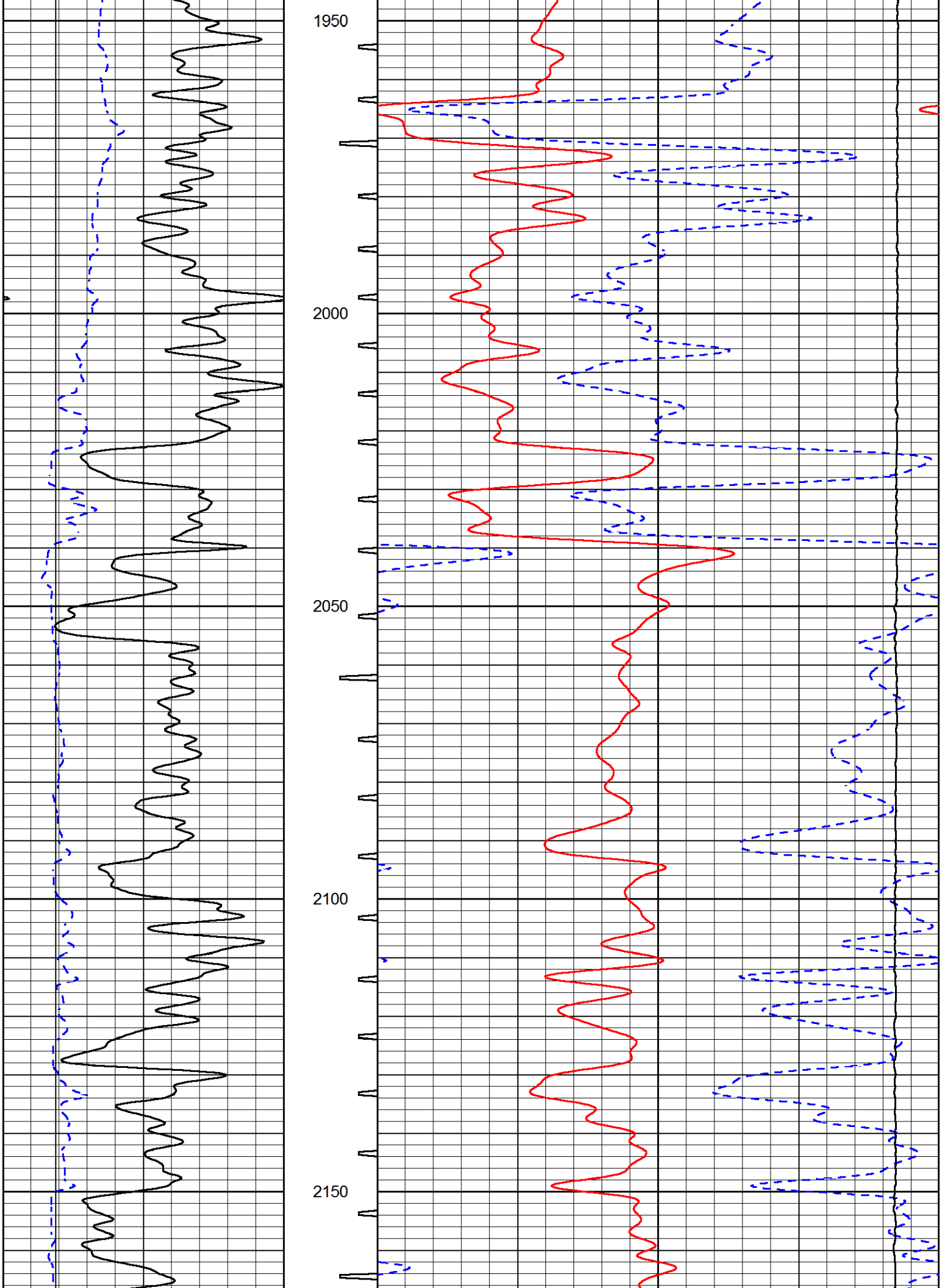

850
900
950
1000
1050

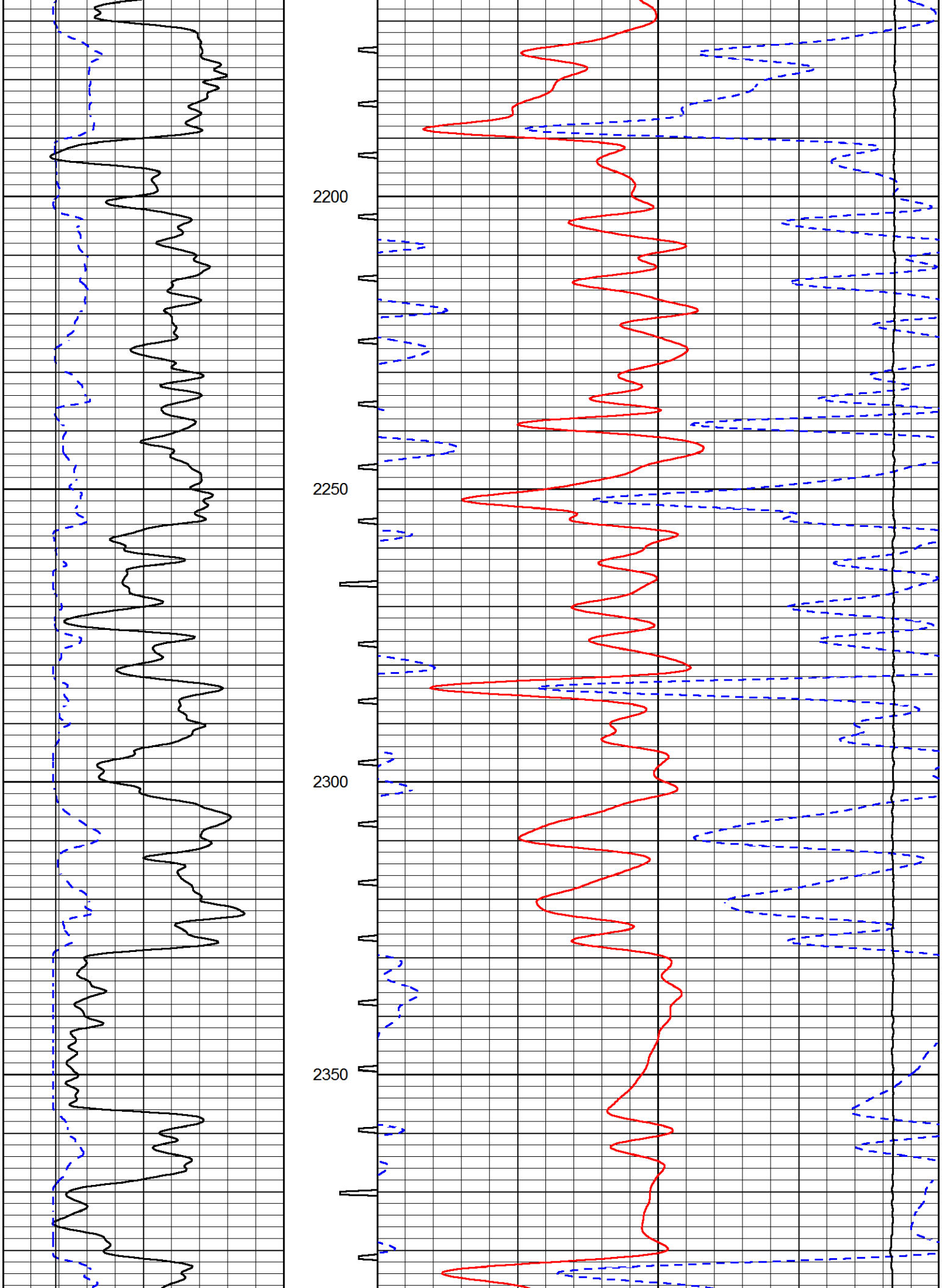

1100
1150
1200
1250

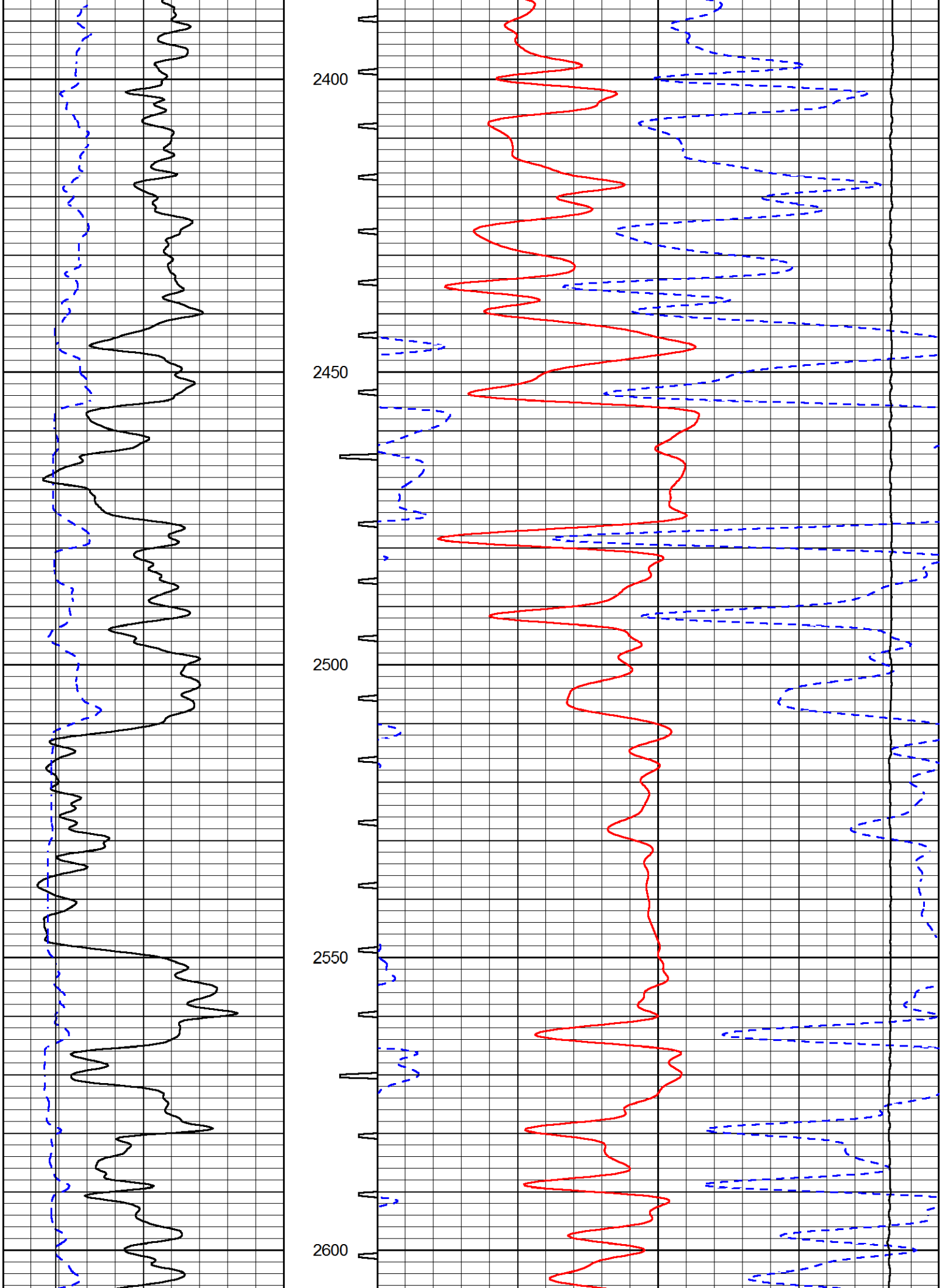

1300
1350
1400
1450
1500

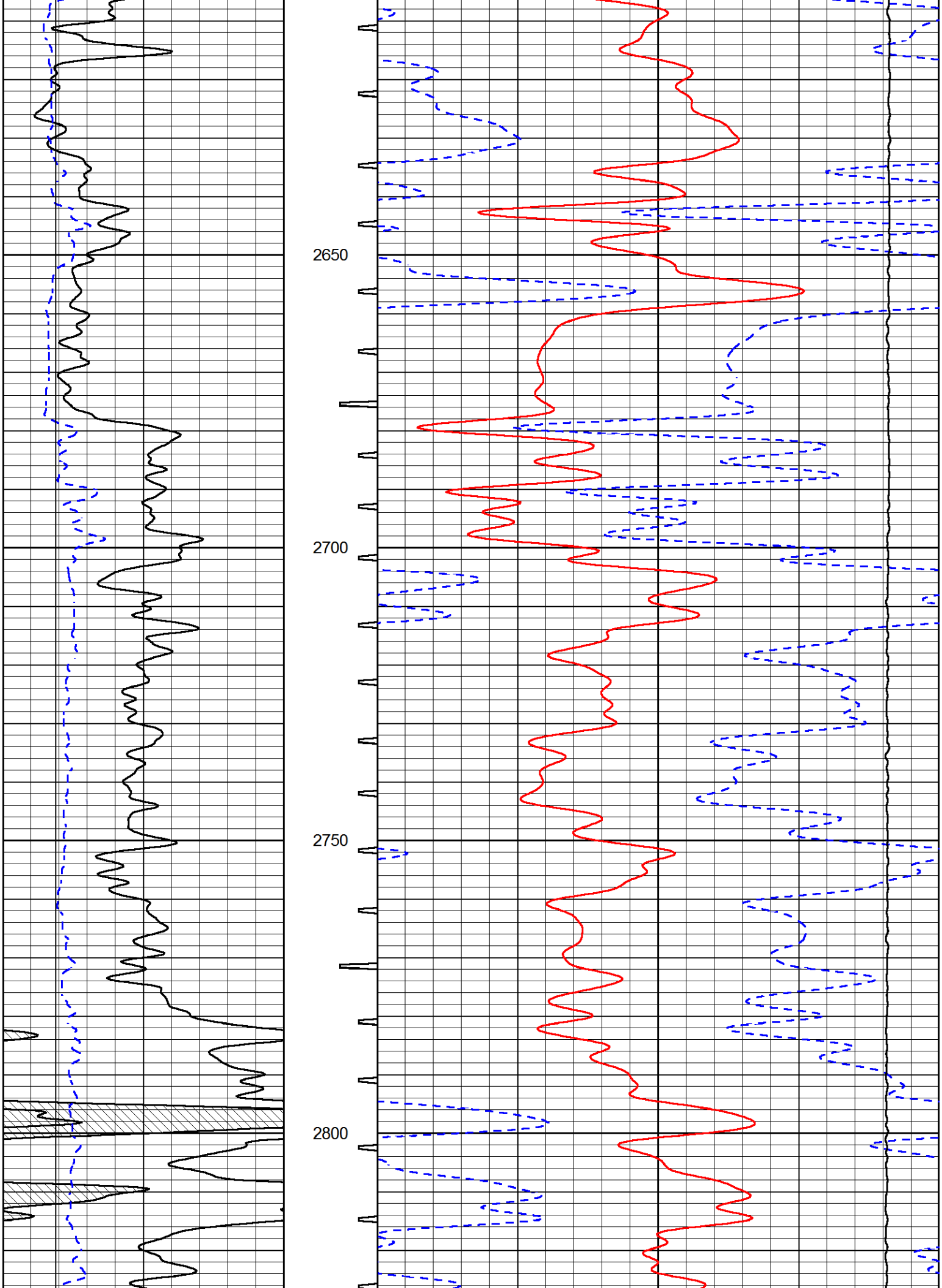

1550
1600
1650
1700

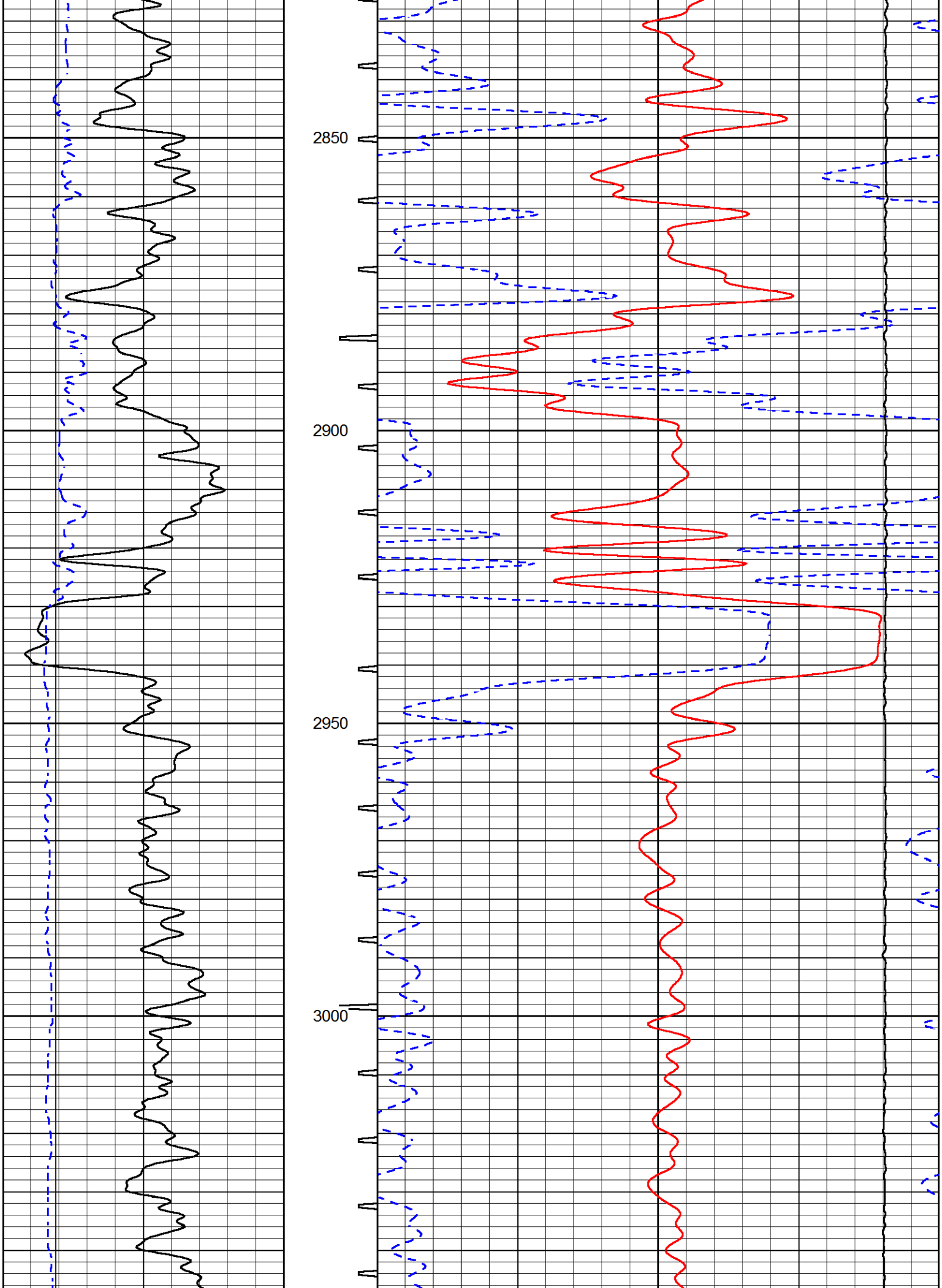

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1800
1850
1900

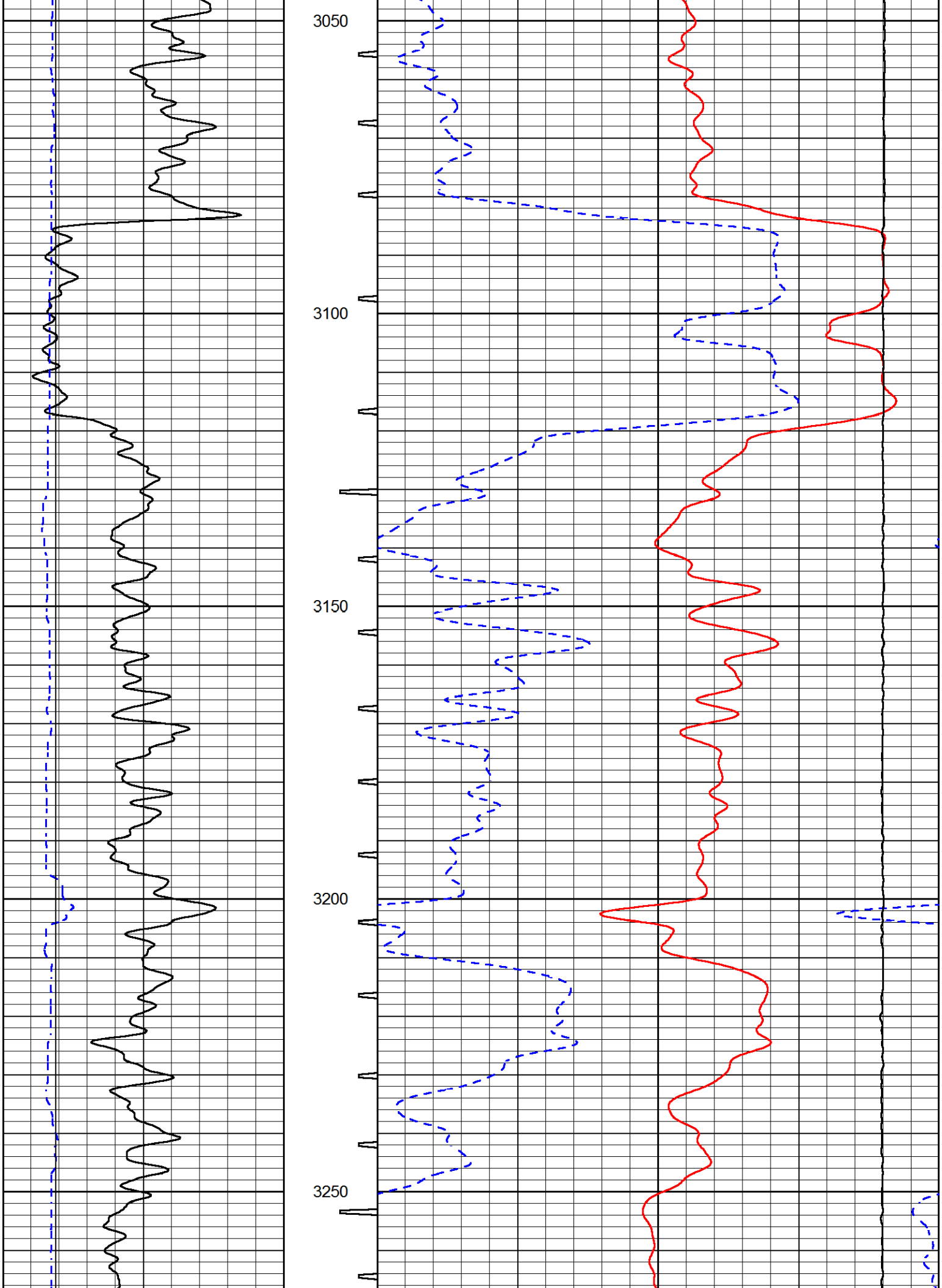

1950
2000
2050
2100
2150

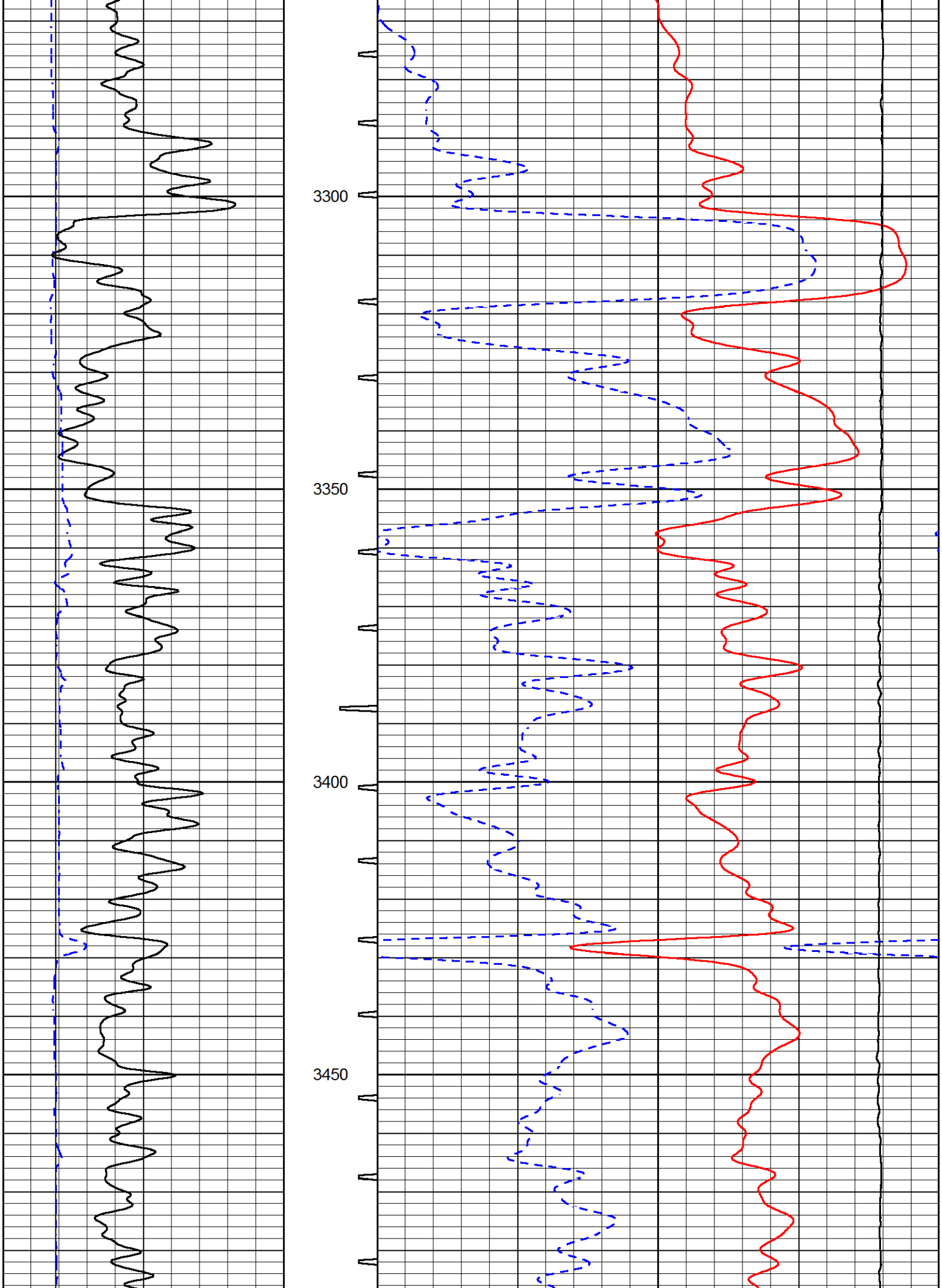

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2250
2300
2350

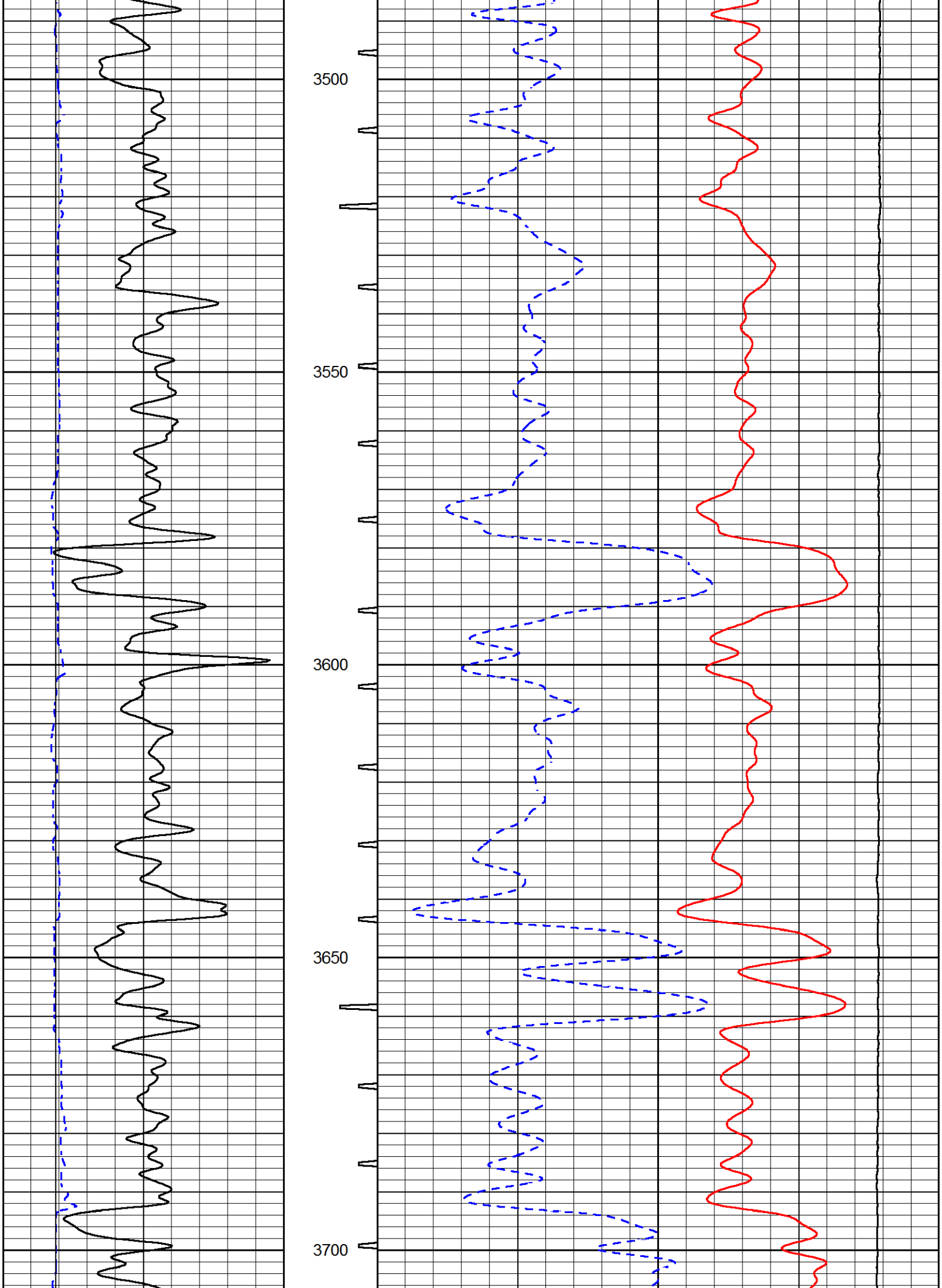

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2500
2550
2600

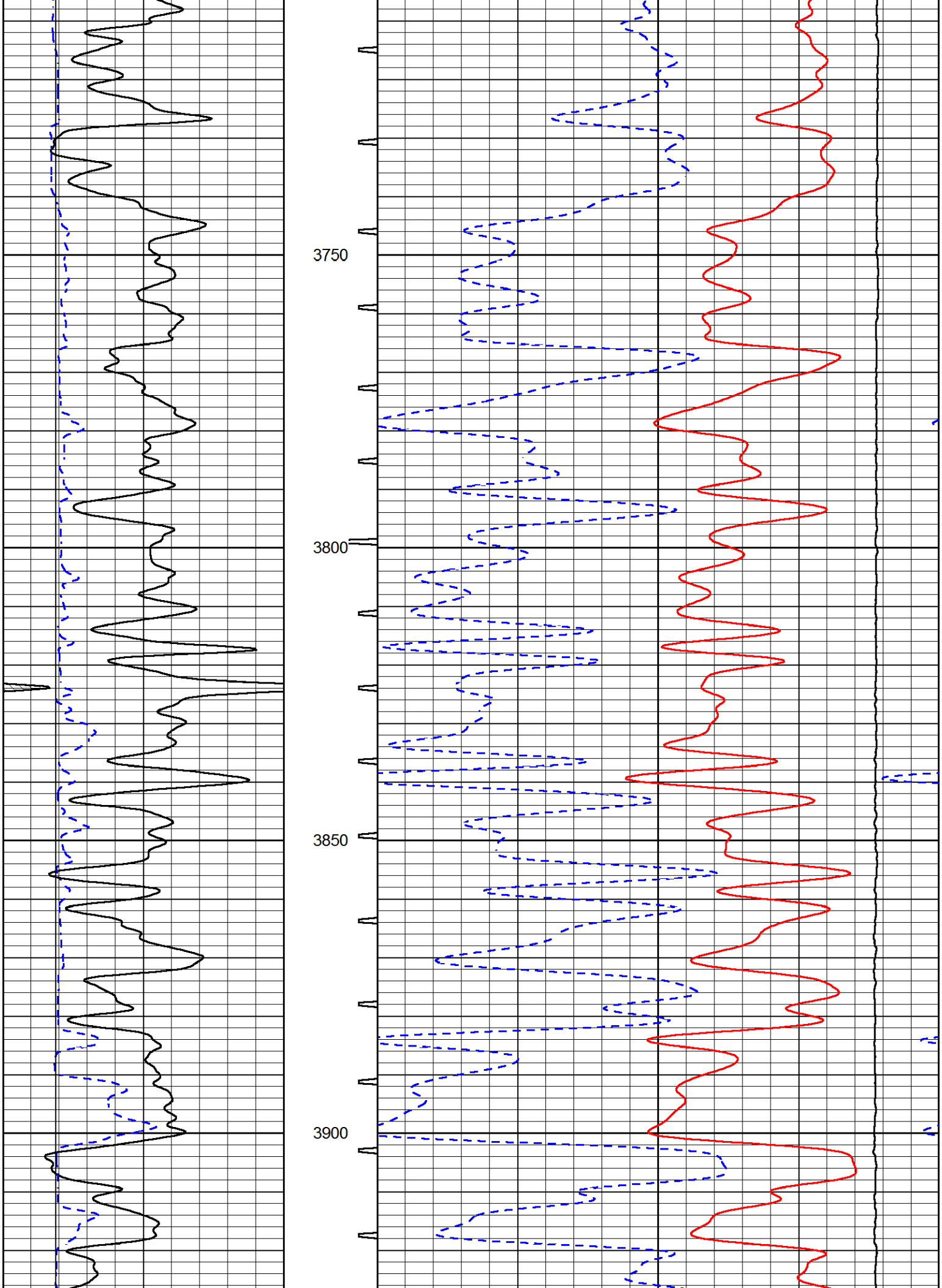

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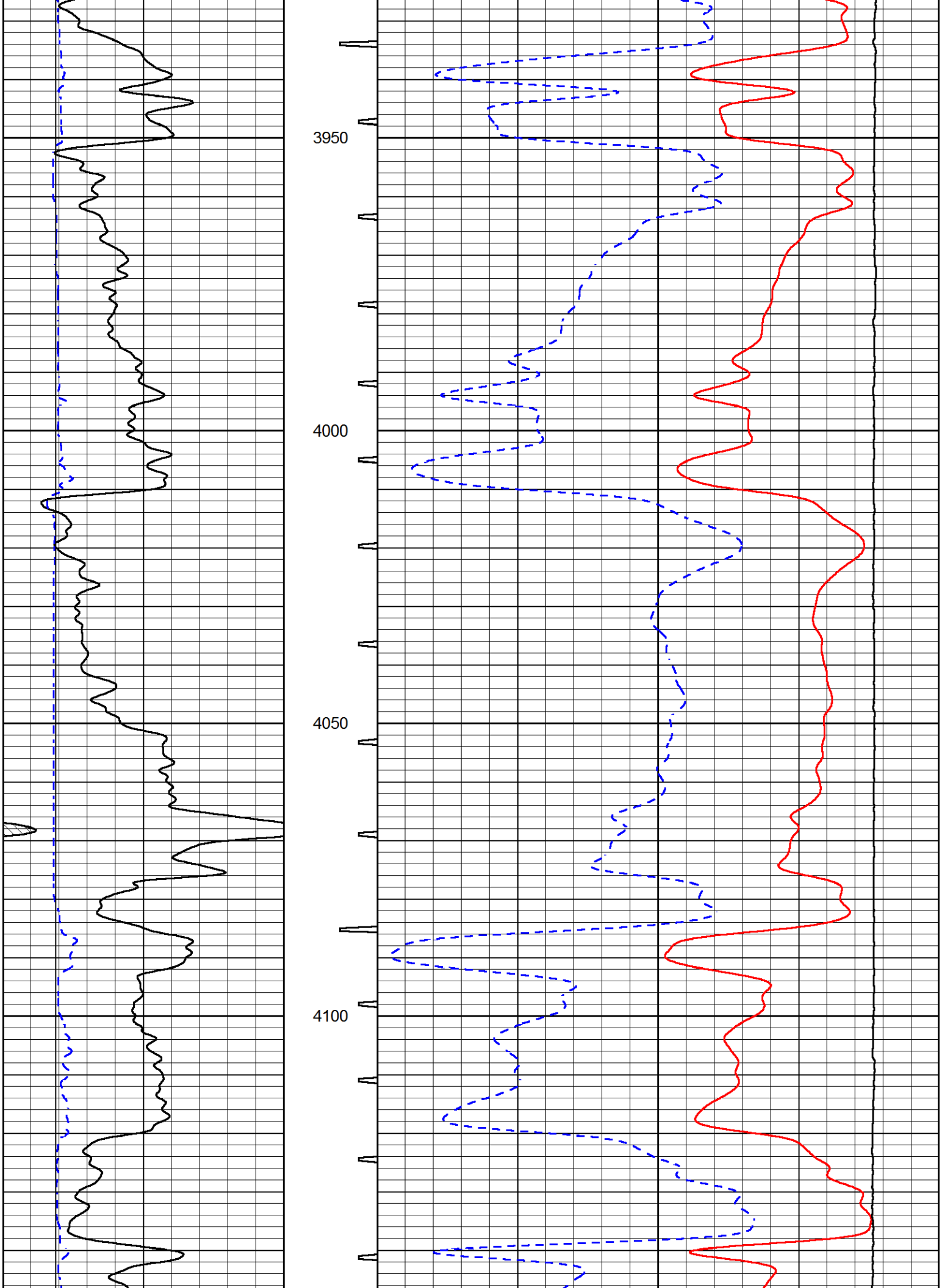

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2900
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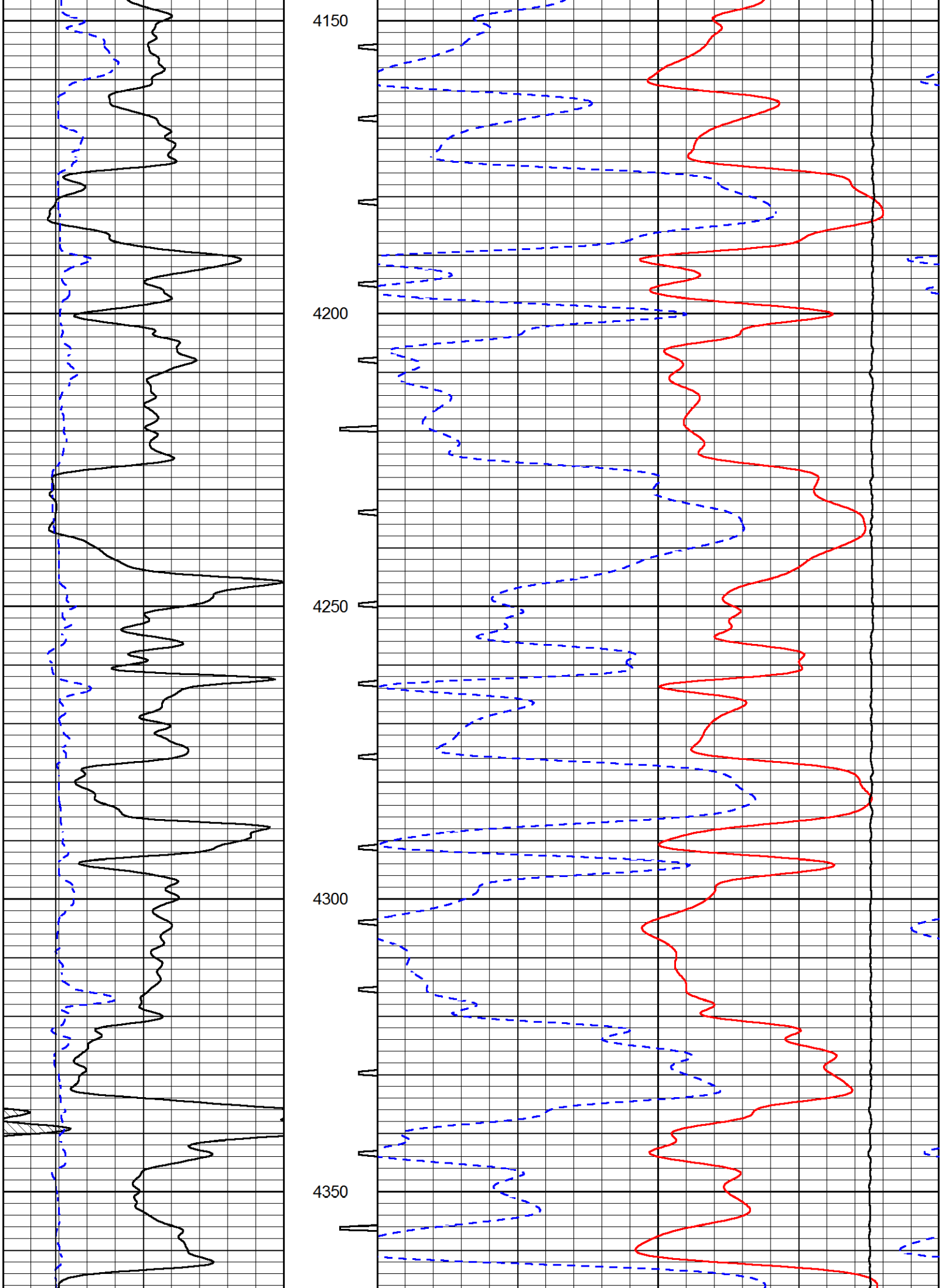

3050
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3150
3200
3250

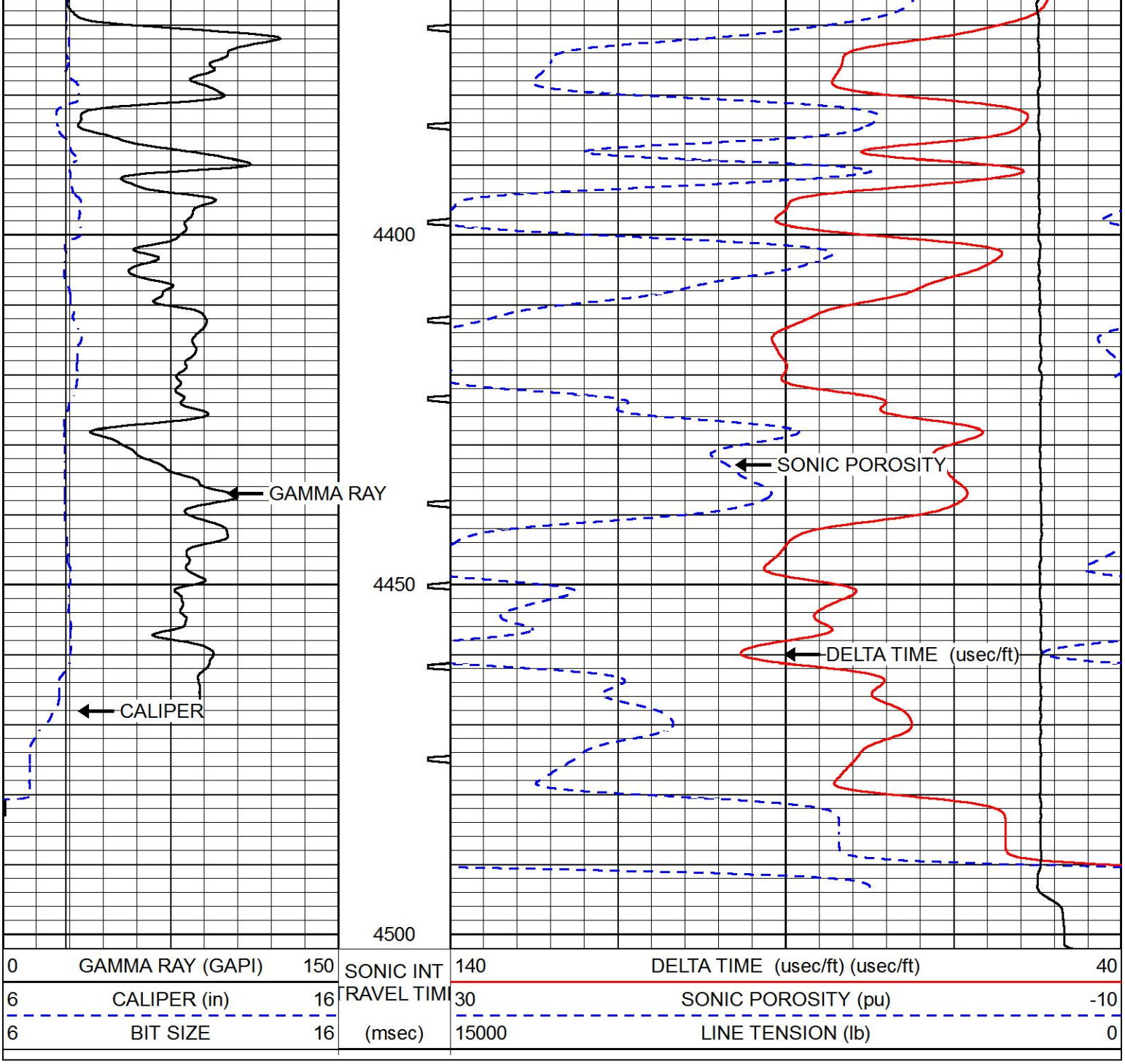

3300
3350
3400
3450


3500
3550
3600
3650
3700


3750
3800
3850
3900


3950
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4200
4250
4300
4350



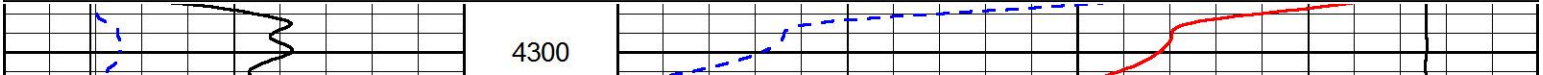
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6	CALIPER (in)	16		30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16		15000	LINE TENSION (lb)	0

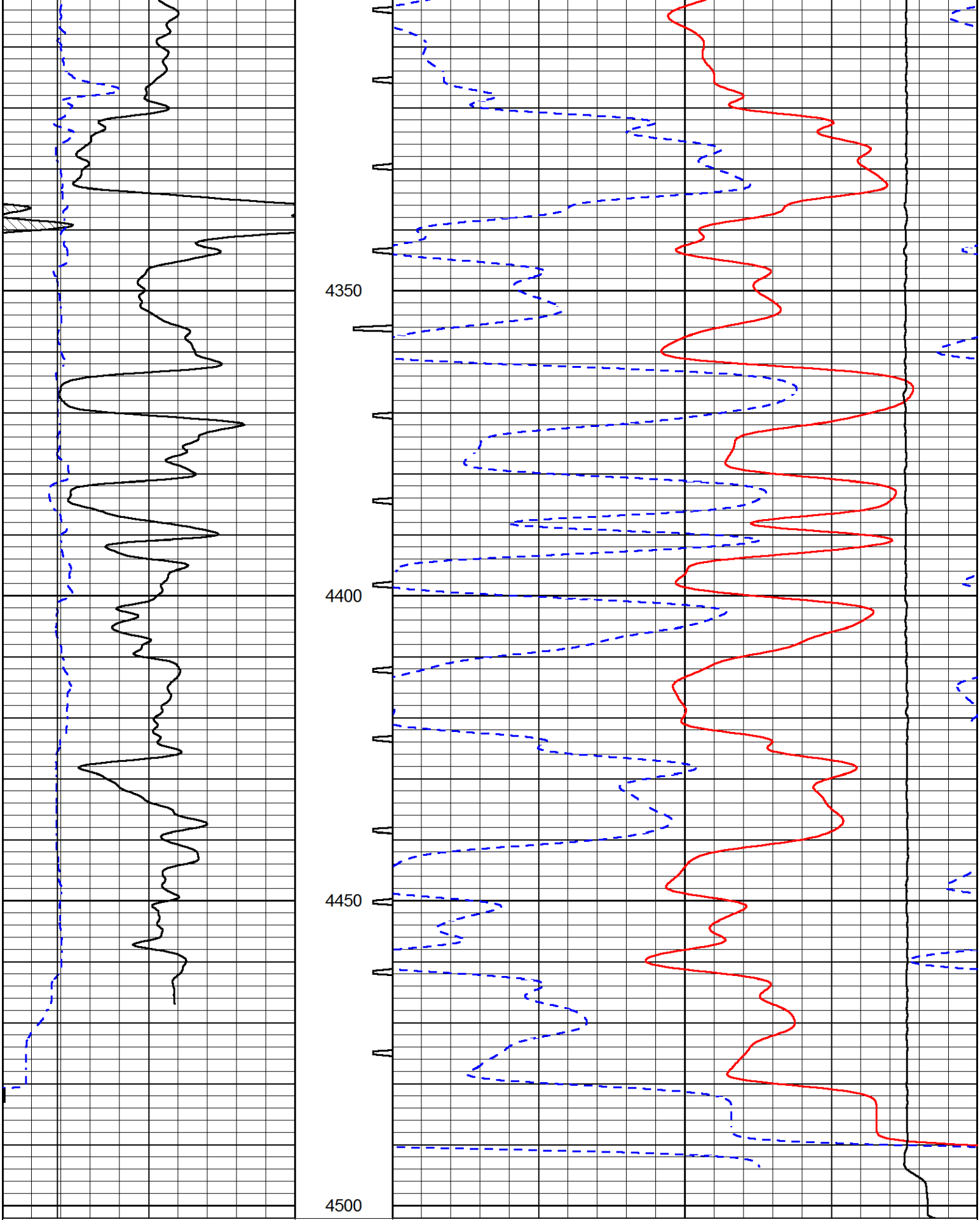
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REPEAT SECTION

Database File	murfin_ken_4_17.db
Dataset Pathname	stackml/pass2.1
Presentation Format	sonic
Dataset Creation	Wed May 09 08:11:43 2018
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





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

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Field	WILDCAT
County	RAWLINS
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