

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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**BOREHOLE COMPENSATED
SONIC LOG**

Company GULF EXPLORATION, LLC
Well CARPENTER TRUST NO. 1-18
Field WILDCAT
County THOMAS **State** KANSAS

Company GULF EXPLORATION, LLC
 Well CARPENTER TRUST NO. 1-18
 Field WILDCAT
 County THOMAS
 State KANSAS

Location: API #: 15-193-21014-00-00
 1185' FSL & 700' FWL
 SEC 18 TWP 7S RGE 36W
 Permanent Datum GROUND LEVEL Elevation 3364'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 DIL/MEL
 CNL/CDL
 Elevation
 K.B. 3369'
 D.F. N/A
 G.L. 3364'

Date	4/4/2018						
Run Number	TWO						
Type Log	BHGS						
Depth Driller	5025'						
Depth Logger	5026'						
Bottom Logged Interval	5015'						
Top Logged Interval	300'						
Type Fluid In Hole	CHEMICAL						
Salinity, PPM CL	2900						
Density	9.2						
Level	FULL						
Max. Rec. Temp. F	126 DEG/F						
Operating Rig Time	5 HOURS						
Equipment -- Location	108 HAYS						
Recorded By	J. HENRICKSON						
Witnessed By	KEITH REAVIS						
Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	303'	8.625"	23#	0	303'
TWO	7.875"	303'		TD			

<<< 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.
 BREWSTER KANSAS
 NORTH TO V ROAD, 1 WEST, NORTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum
 THANK YOU FOR USING PIONEER ENERGY SERVICES
 www.pioneerenergy.com 785-625-3858

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

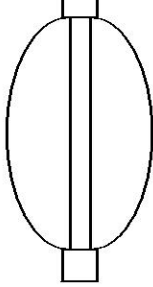
Log Variables

DatabaseC:\ProgramData\Warrior\Data\gulf_exploration_carpenter_trust_1_18.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	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	3	-255	57	Off	5026

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
WVF4 WVF1	11.00 11.00		SLT-PENGO (0001)	16.00	3.50	300.00
WVF3 WVF2	9.00 9.00					



CENT-SIE

3.00

2.00

10.00

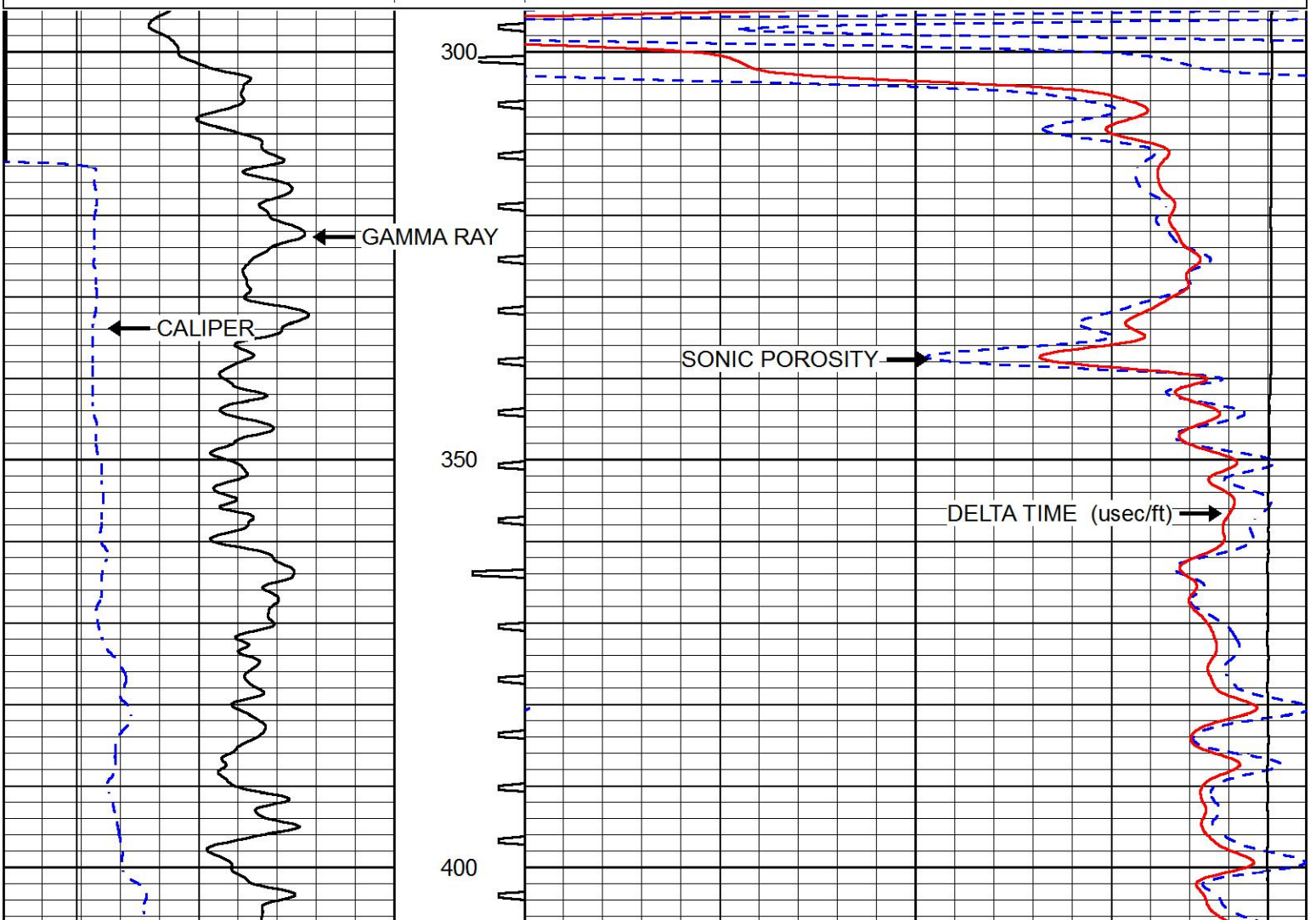
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 Total length: 19.00 ft
 Total weight: 310.00 lb
 O.D.: 3.50 in

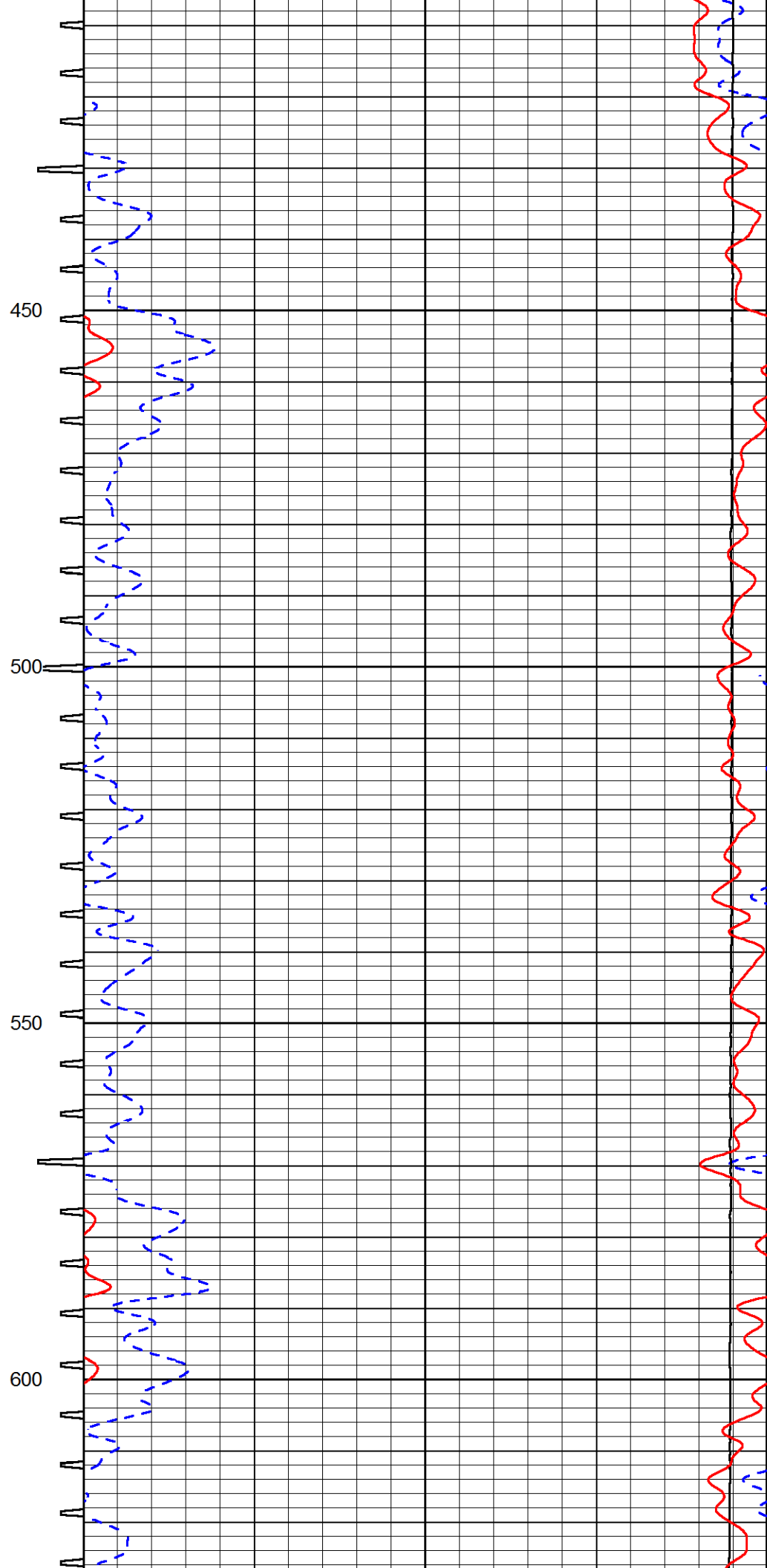
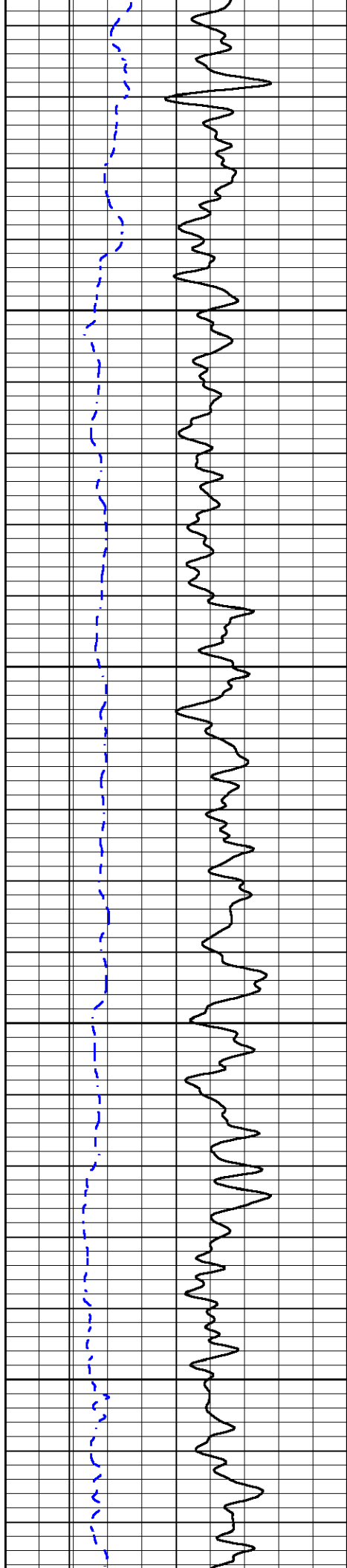


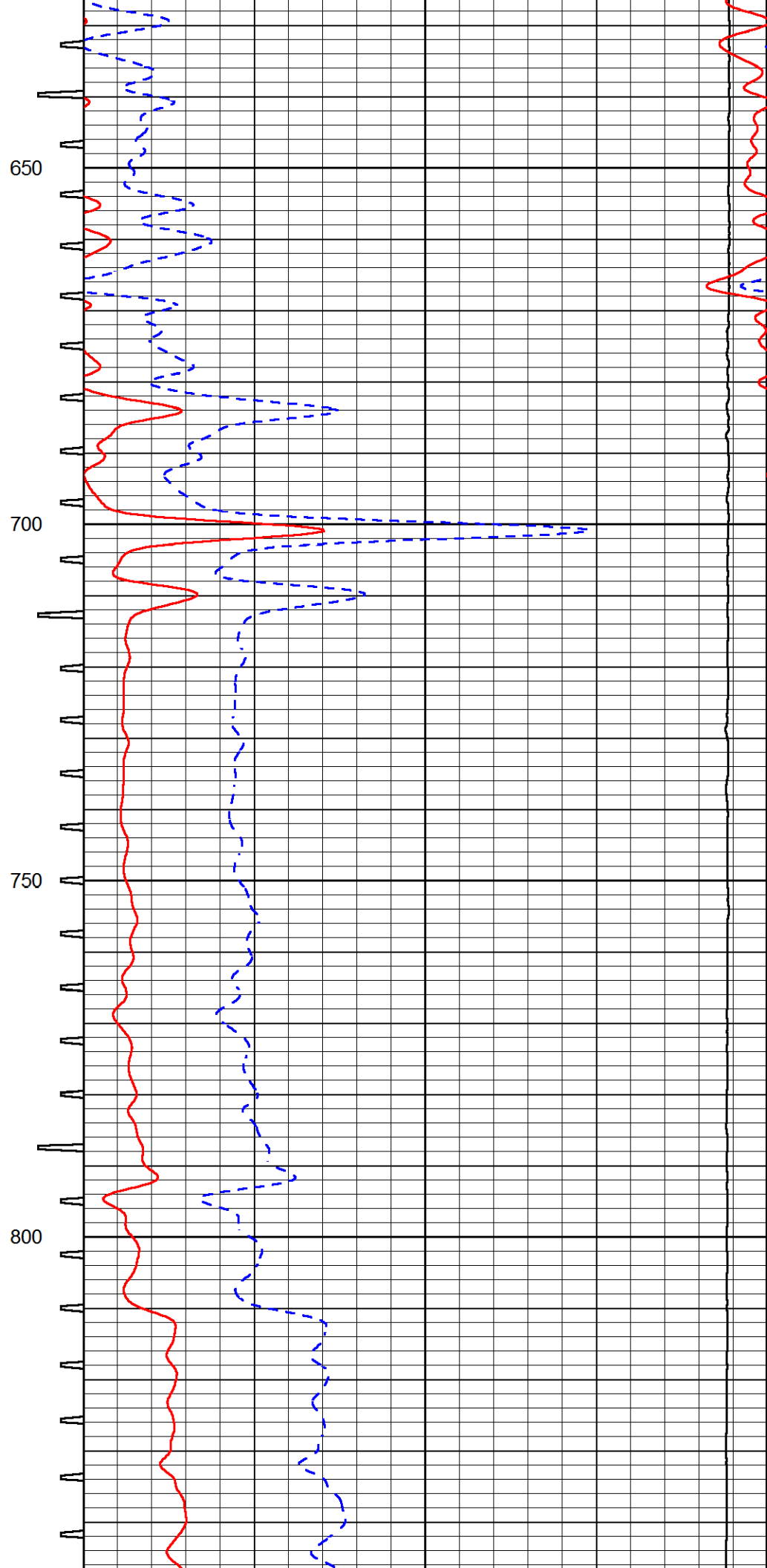
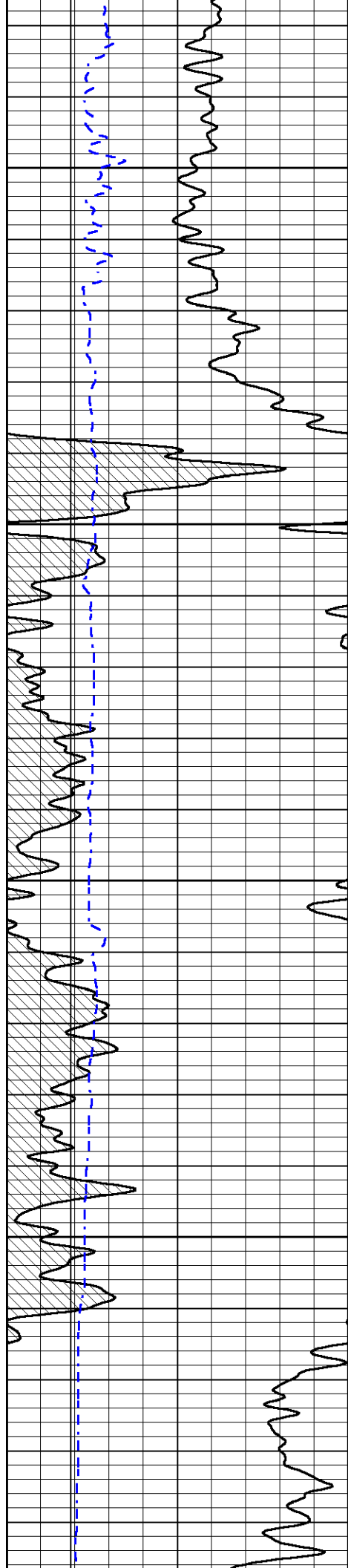
MAIN PASS

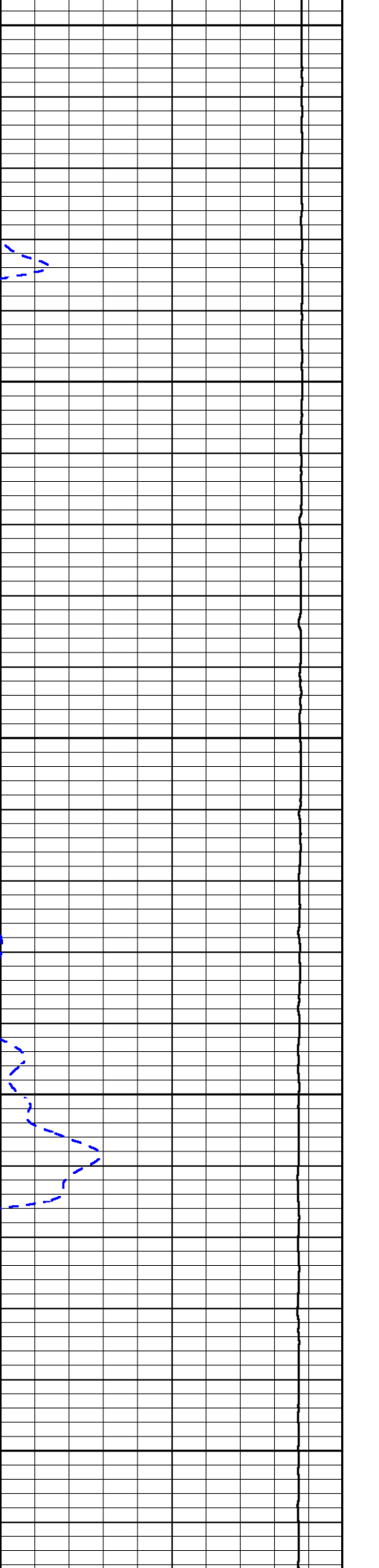
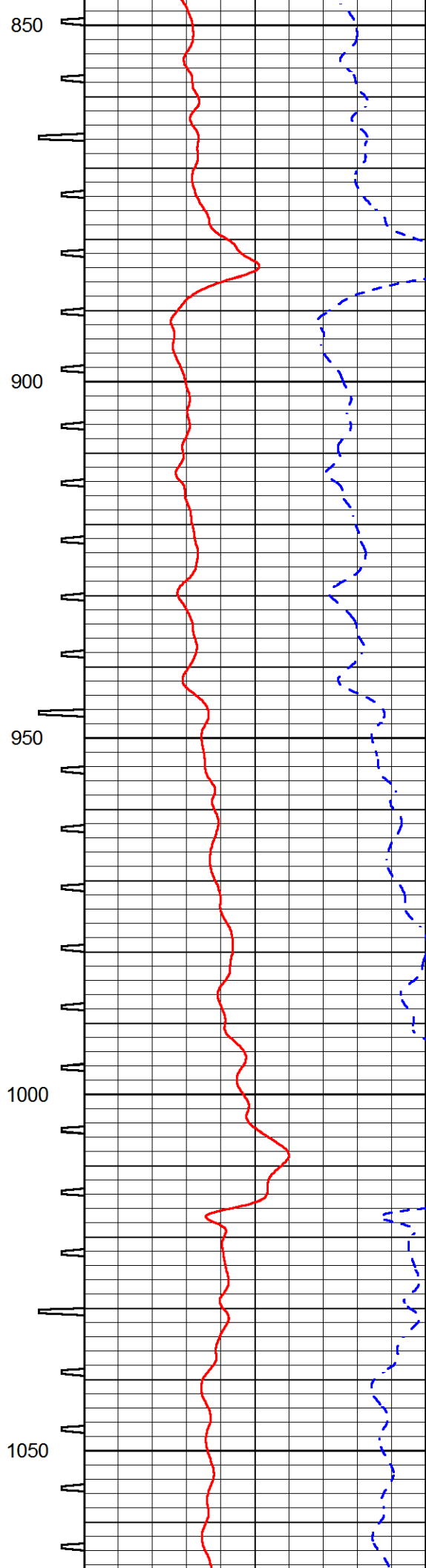
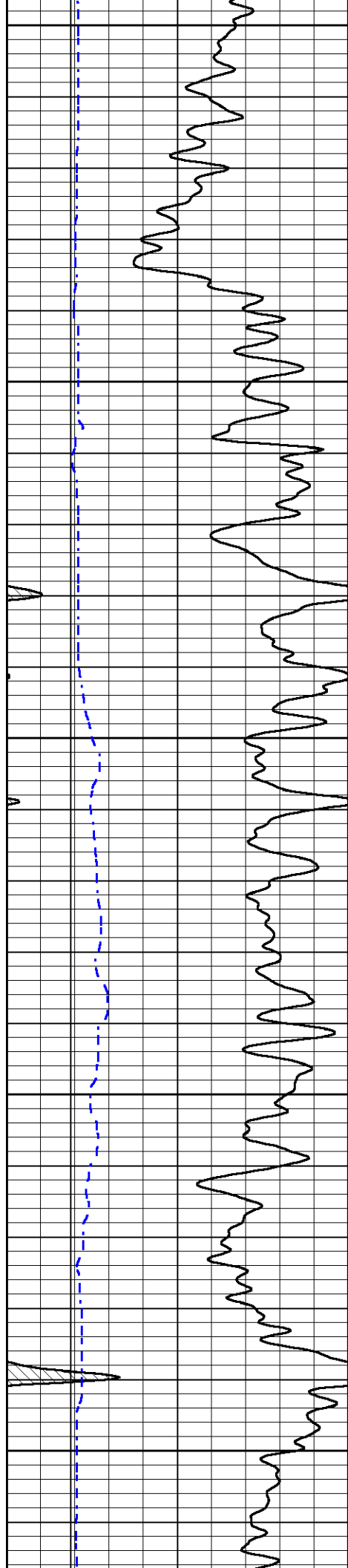
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 Dataset Pathname stackml/pass3.1
 Presentation Format sonic
 Dataset Creation Wed Apr 04 22:18:07 2018
 Charted by Depth in Feet scaled 1:240

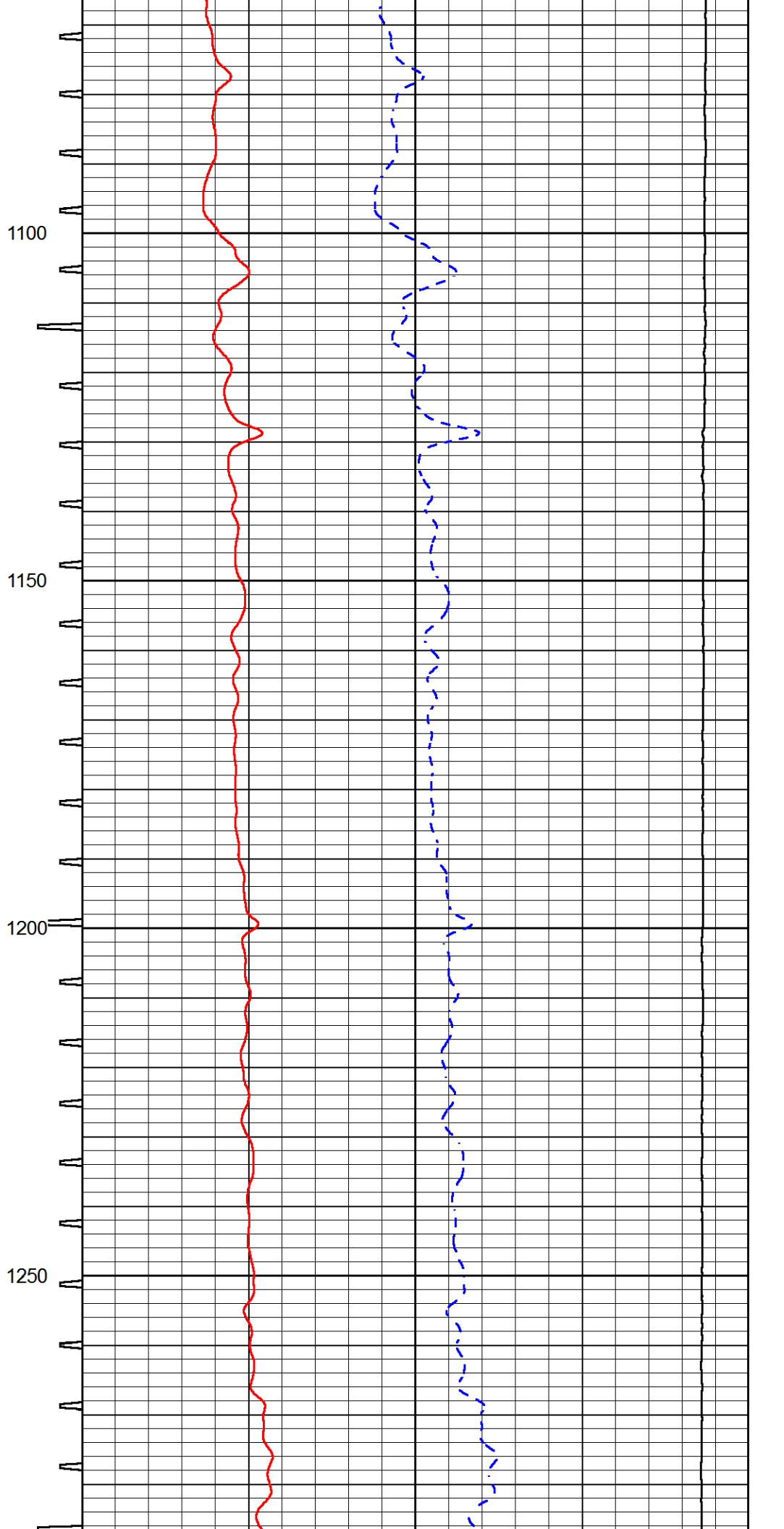
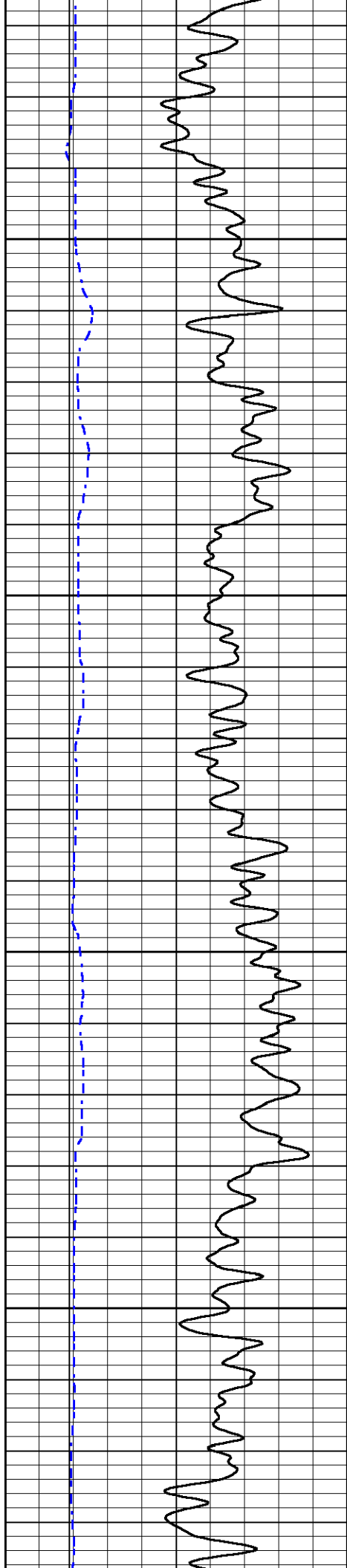
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6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

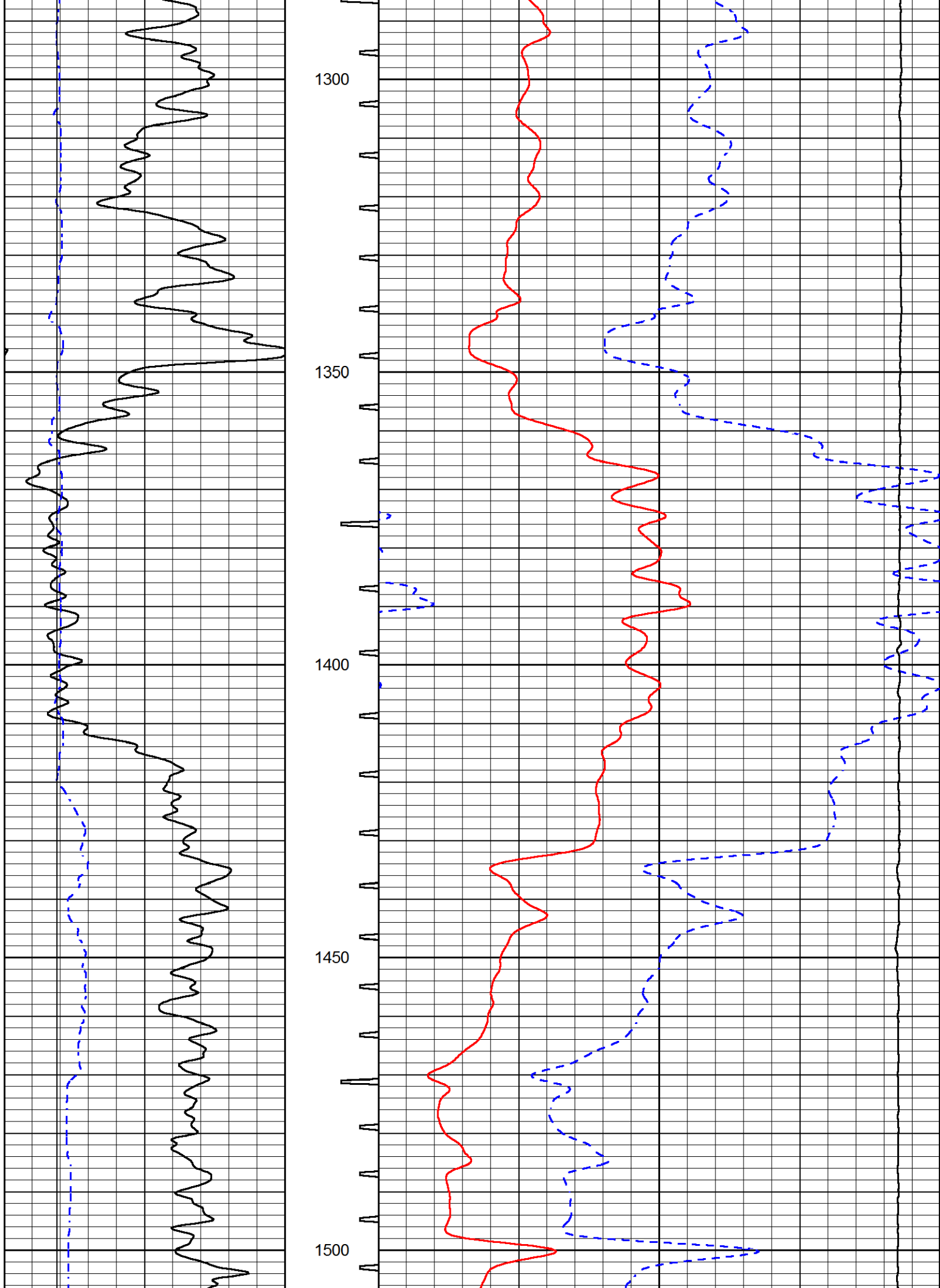


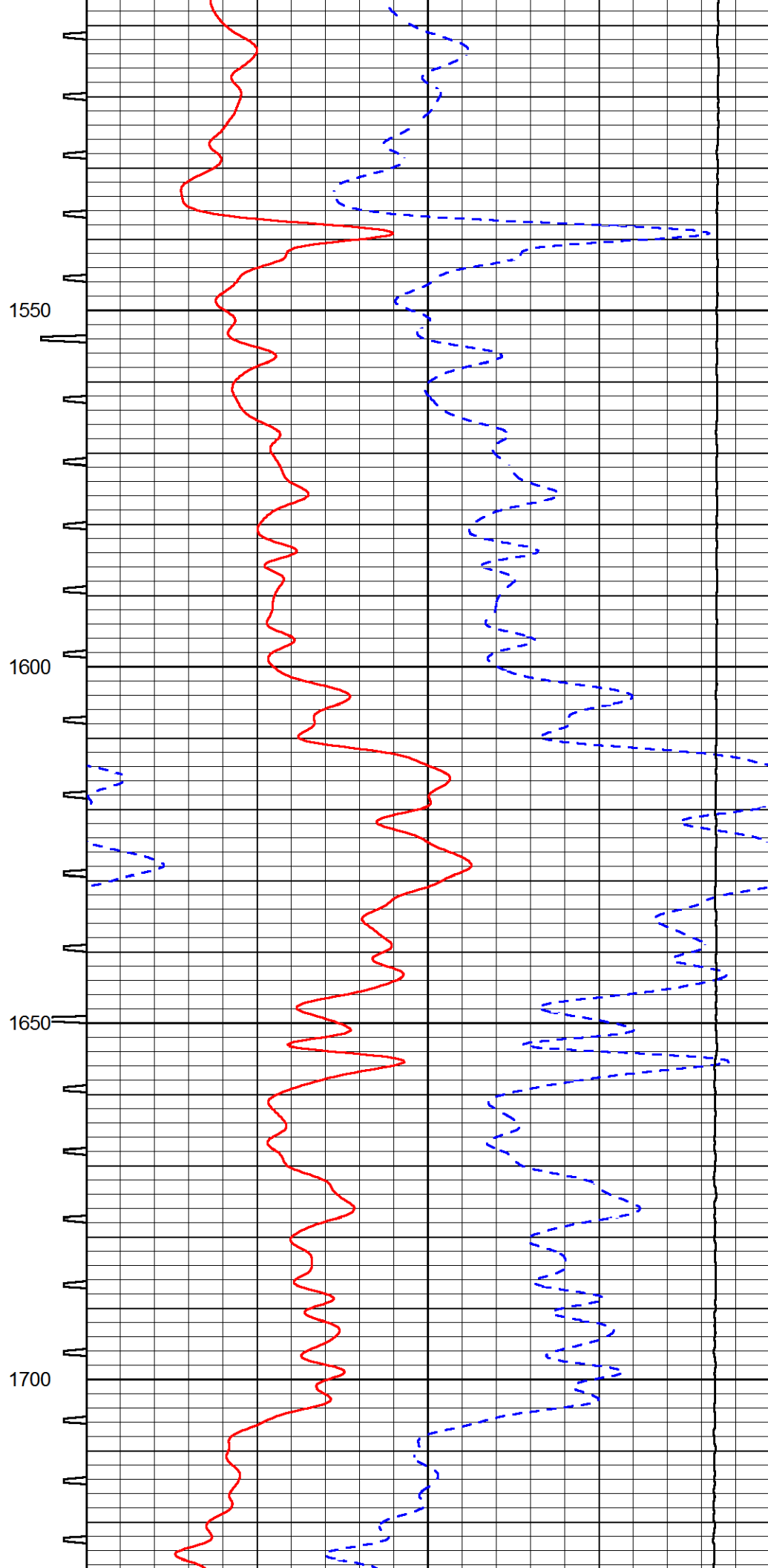
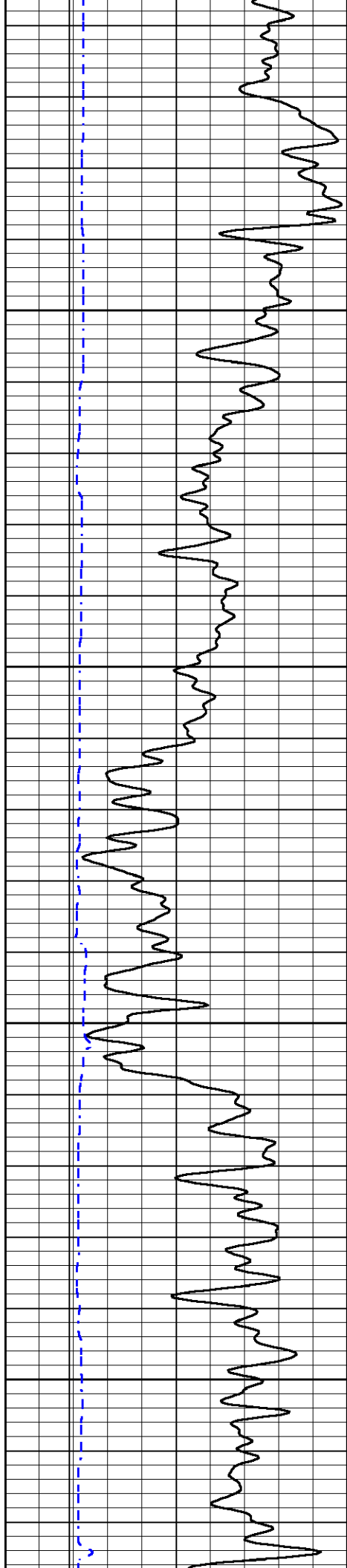


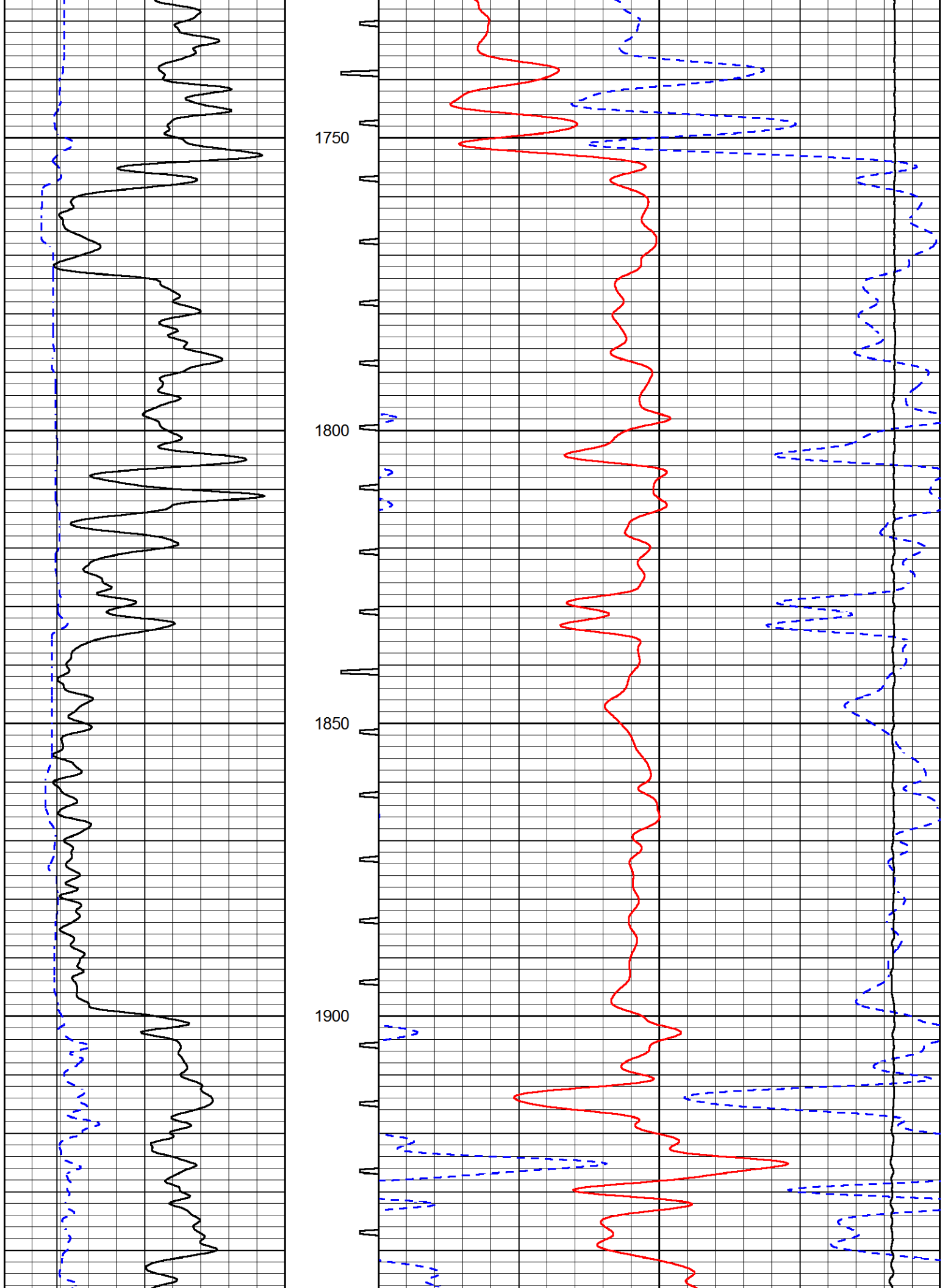


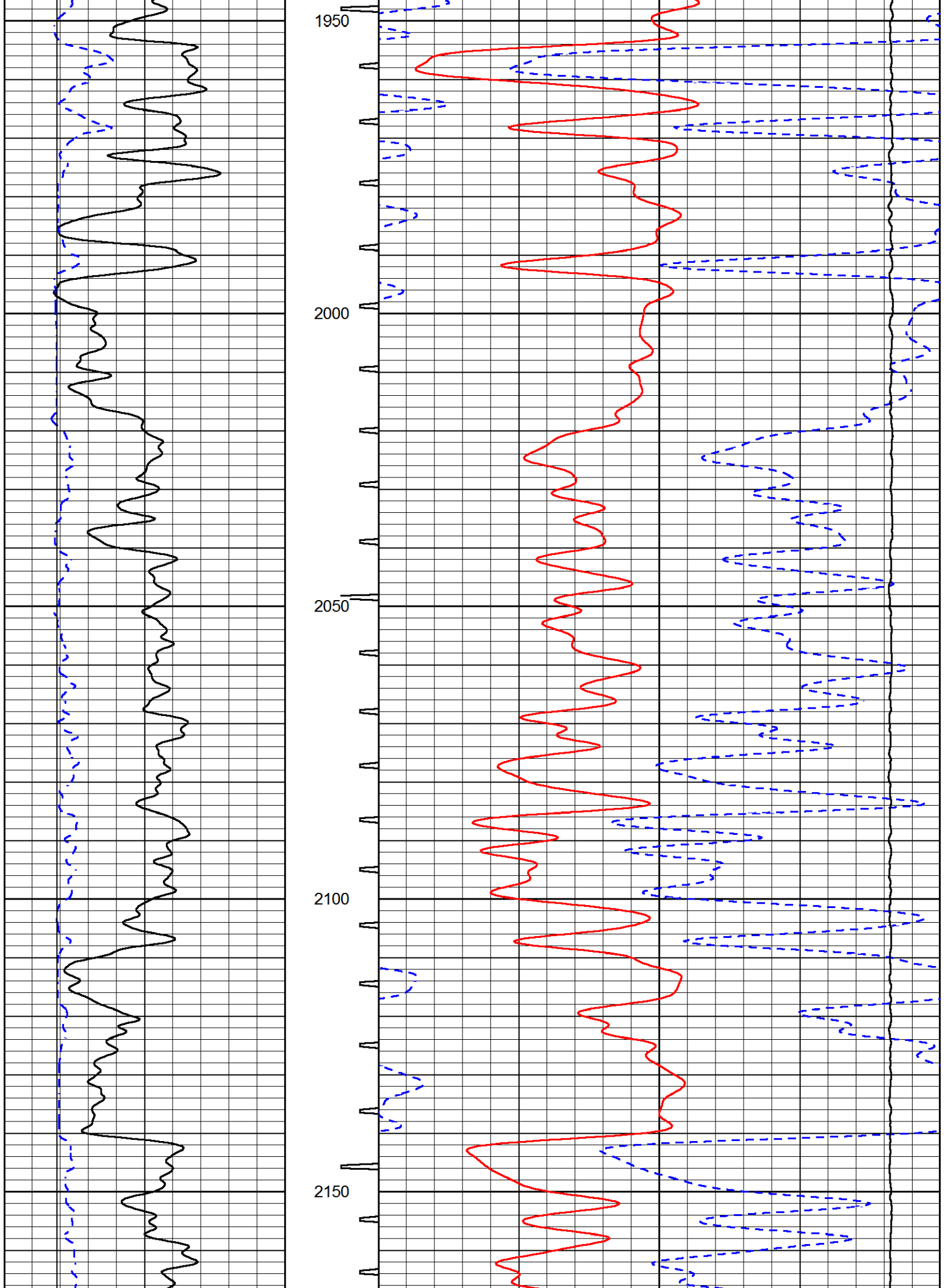


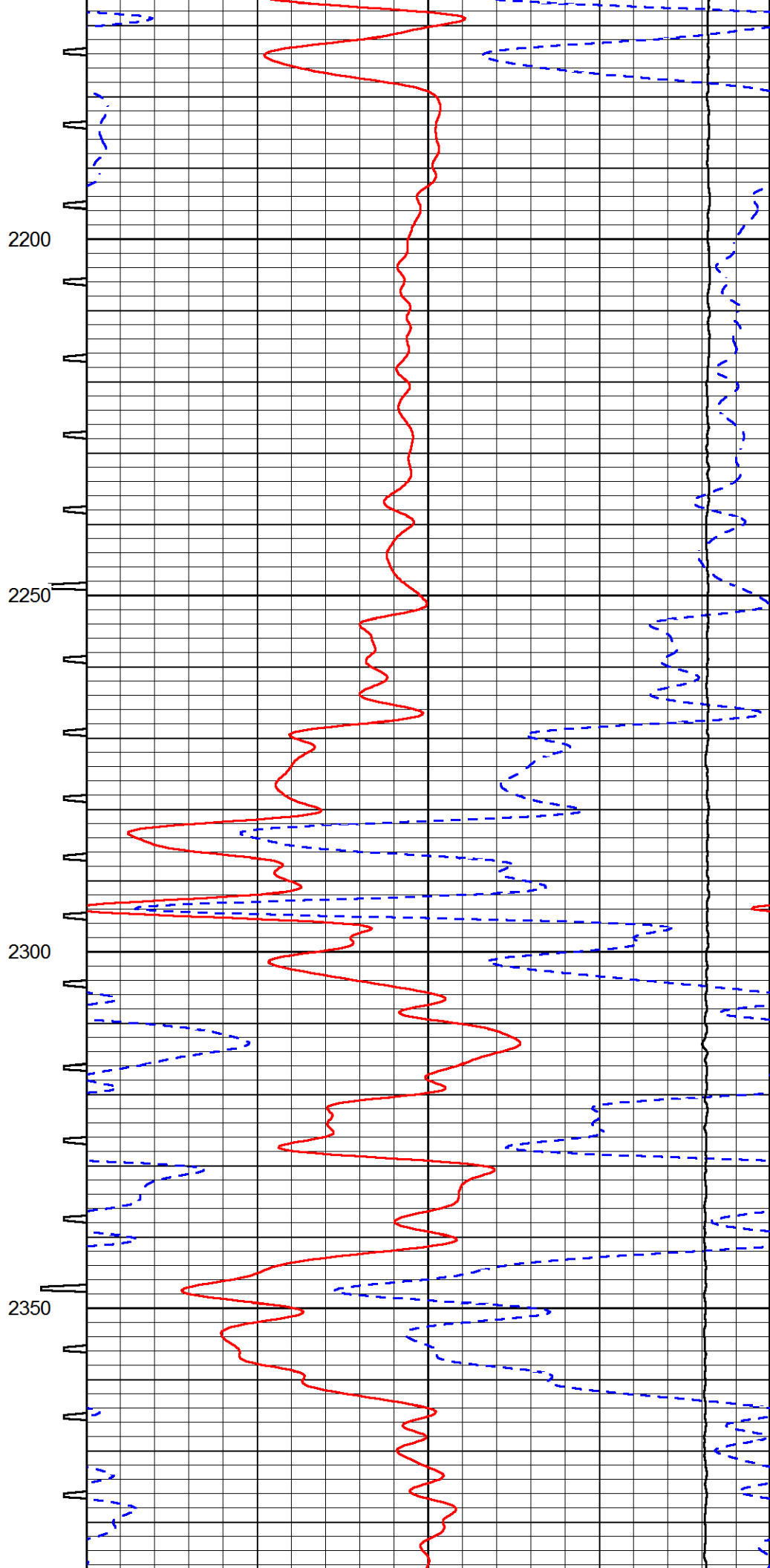
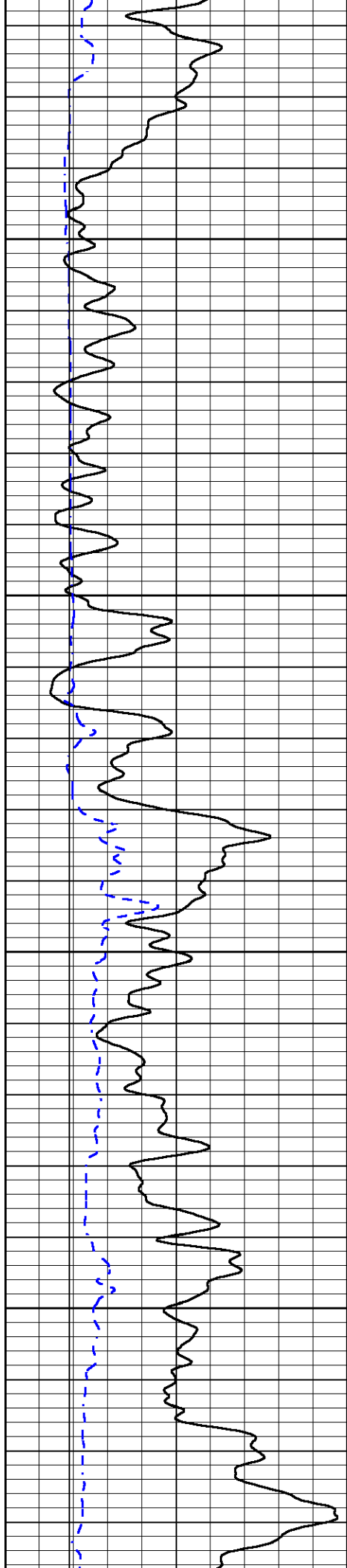


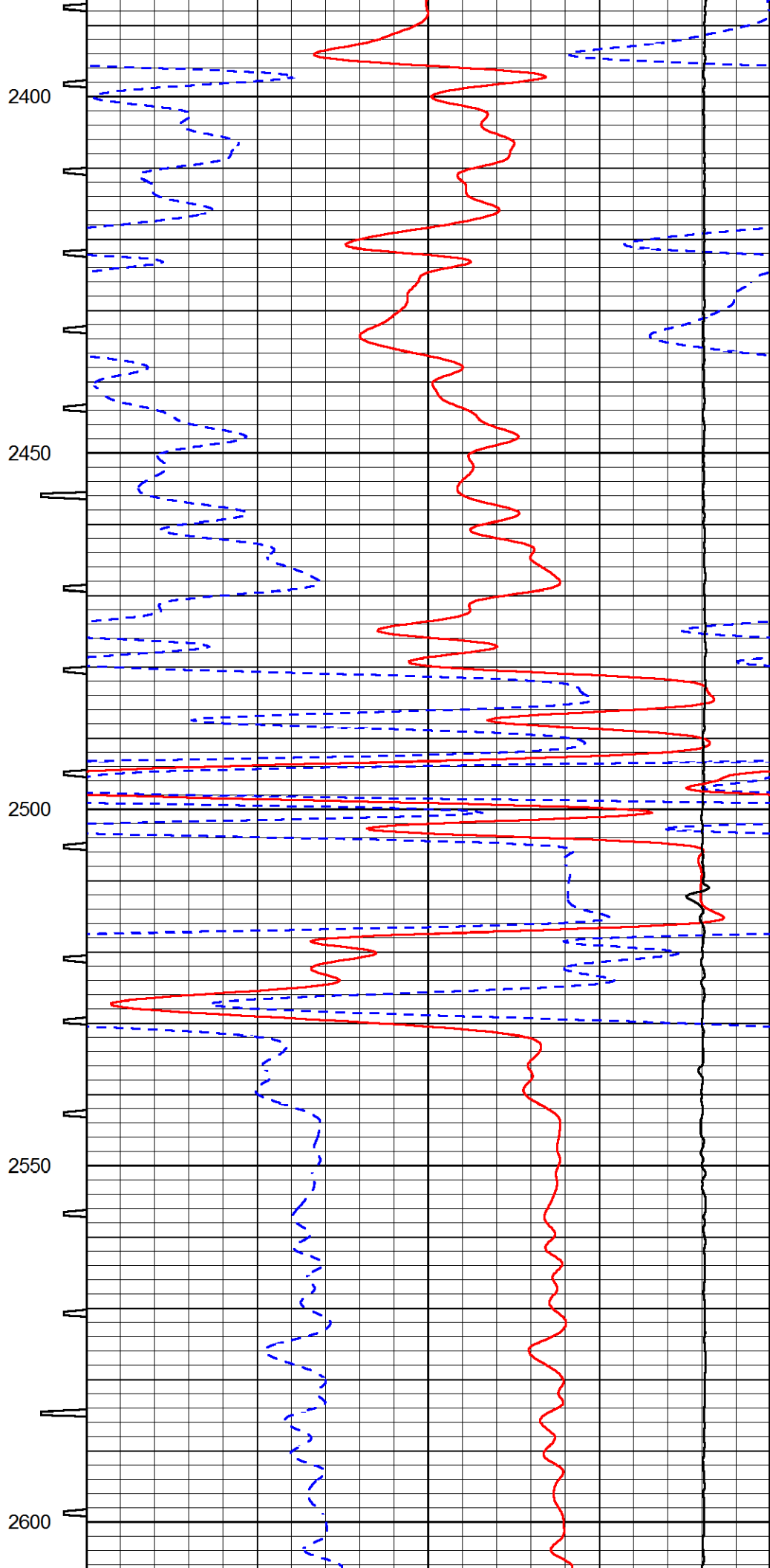
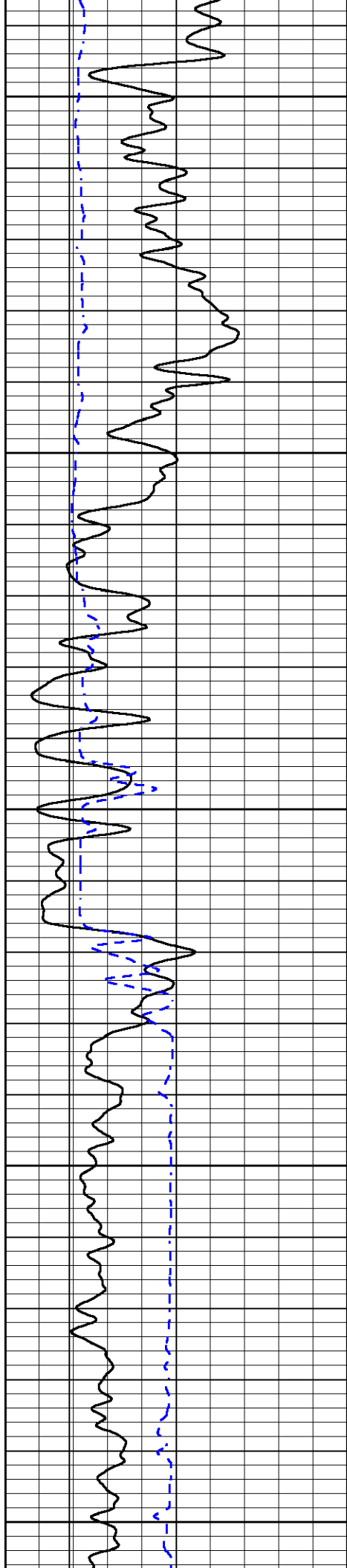


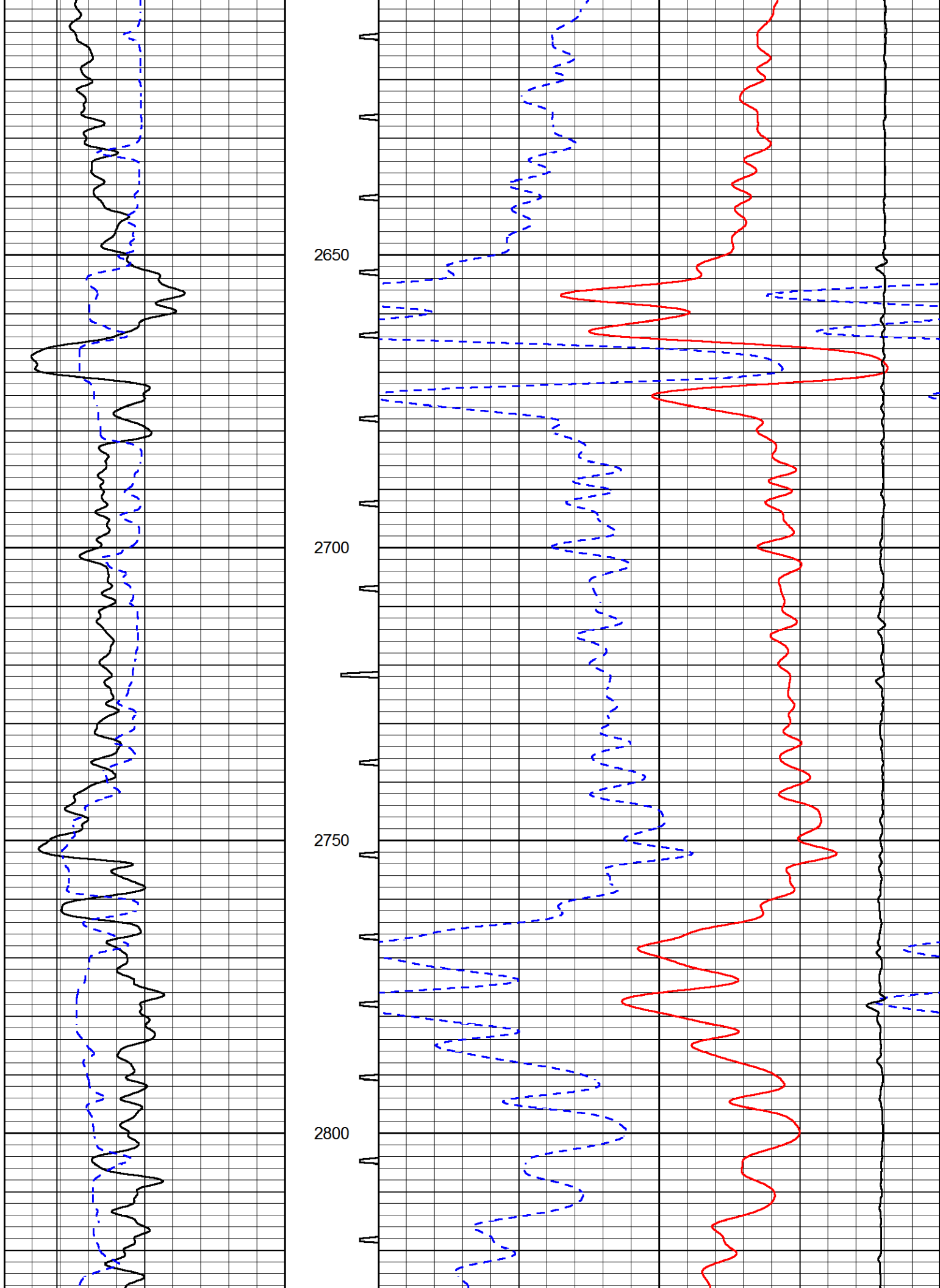


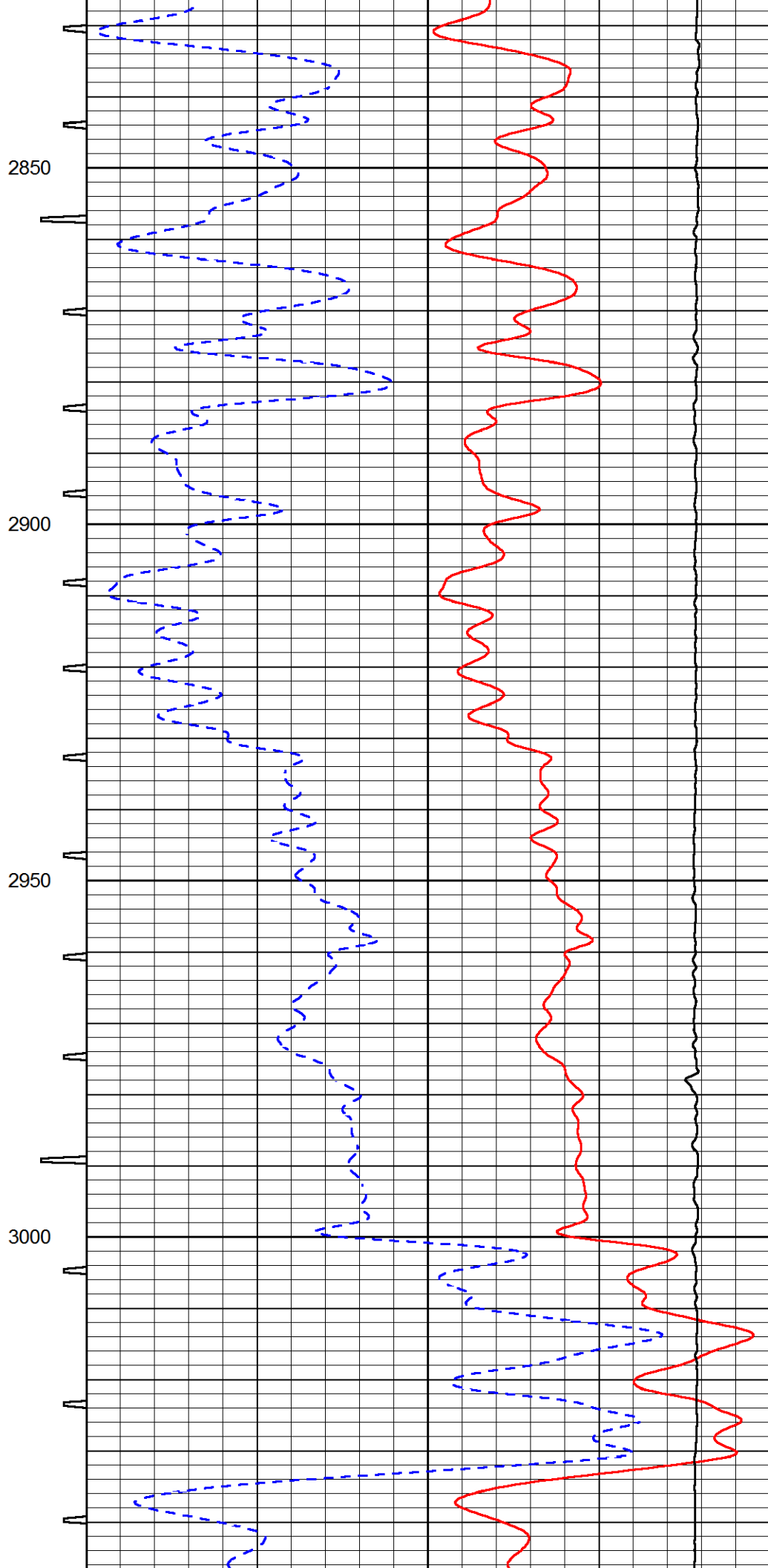
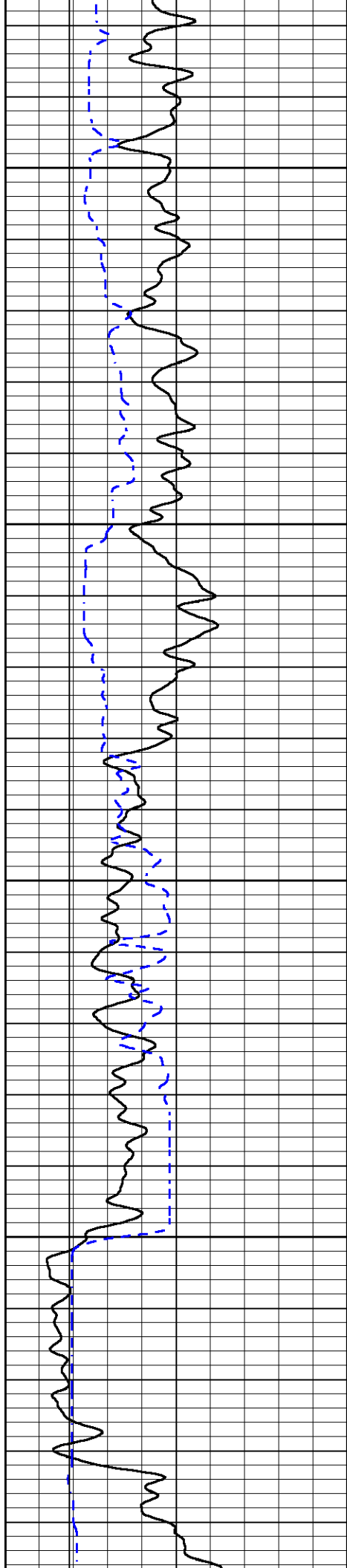


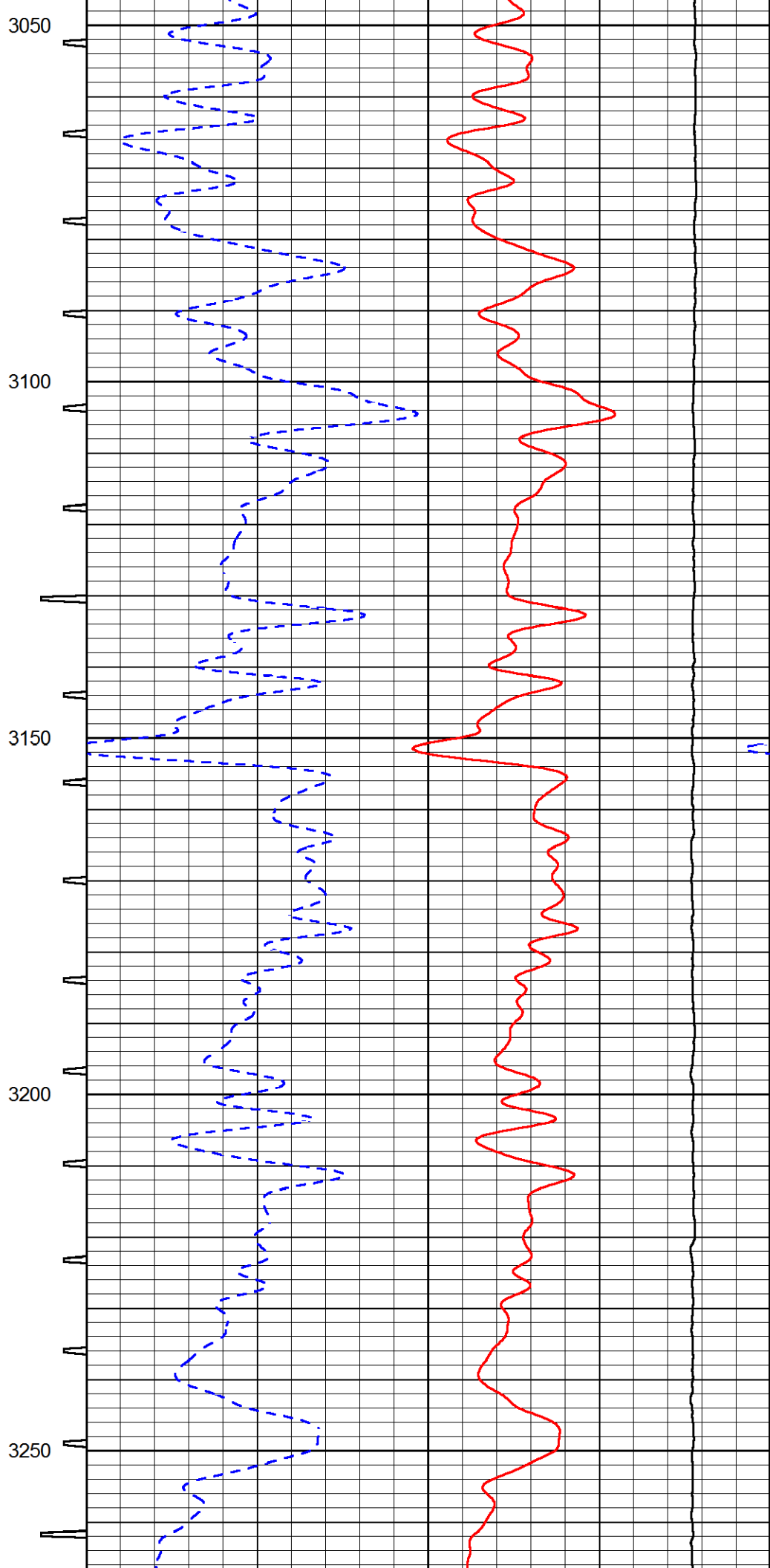
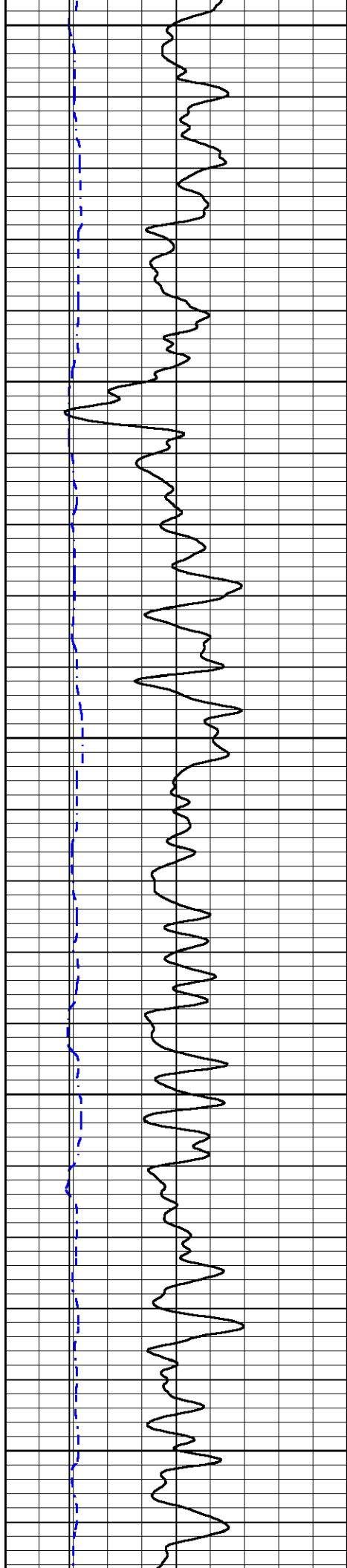


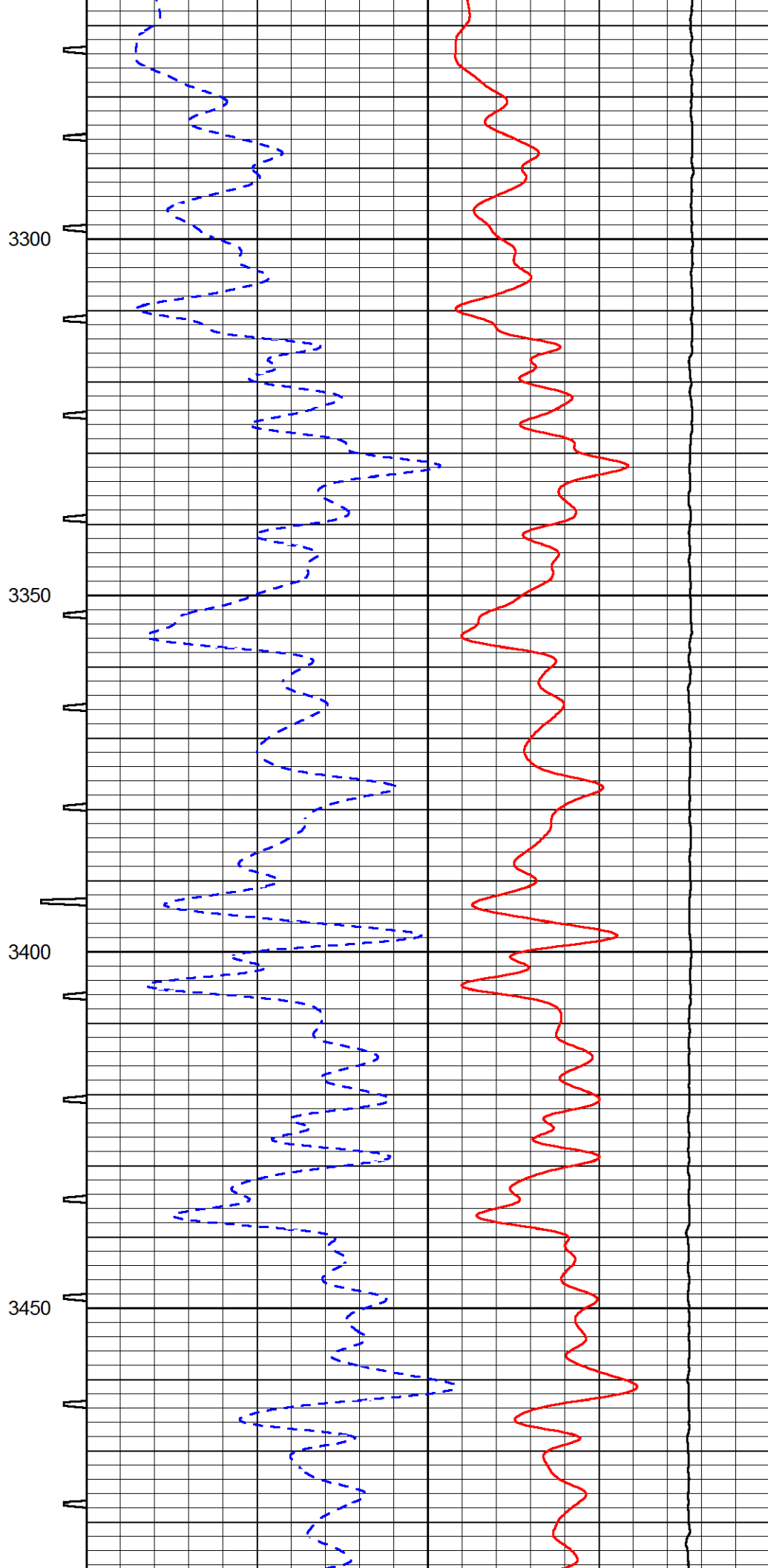
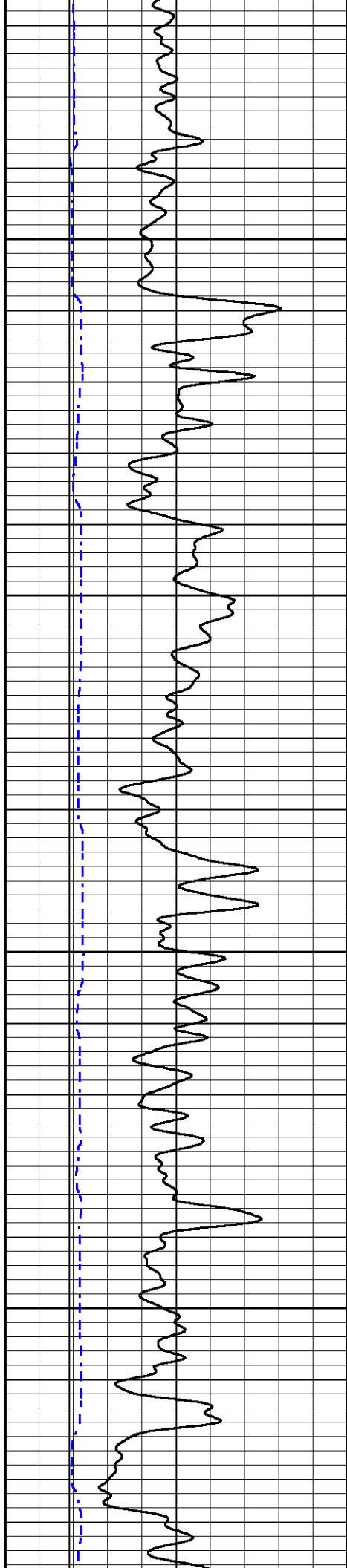


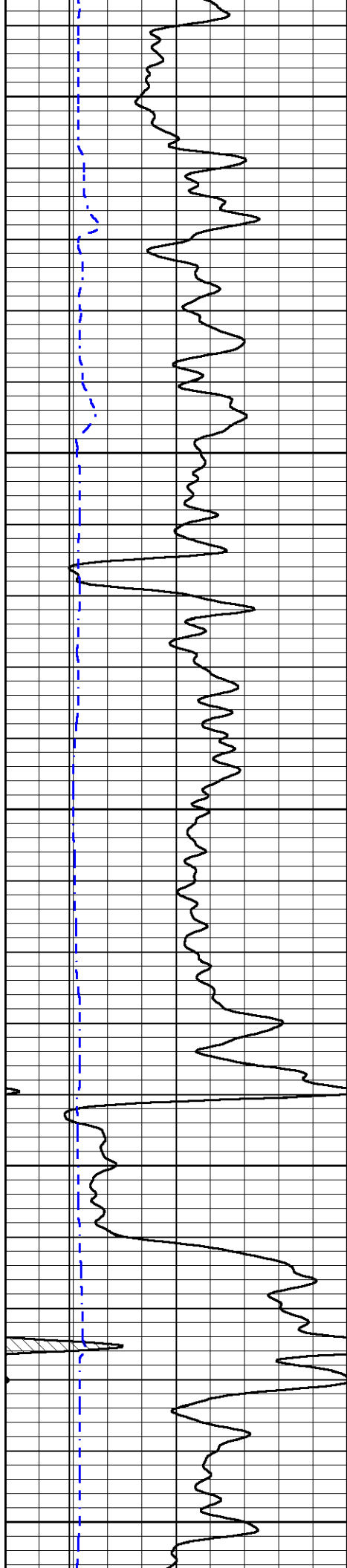












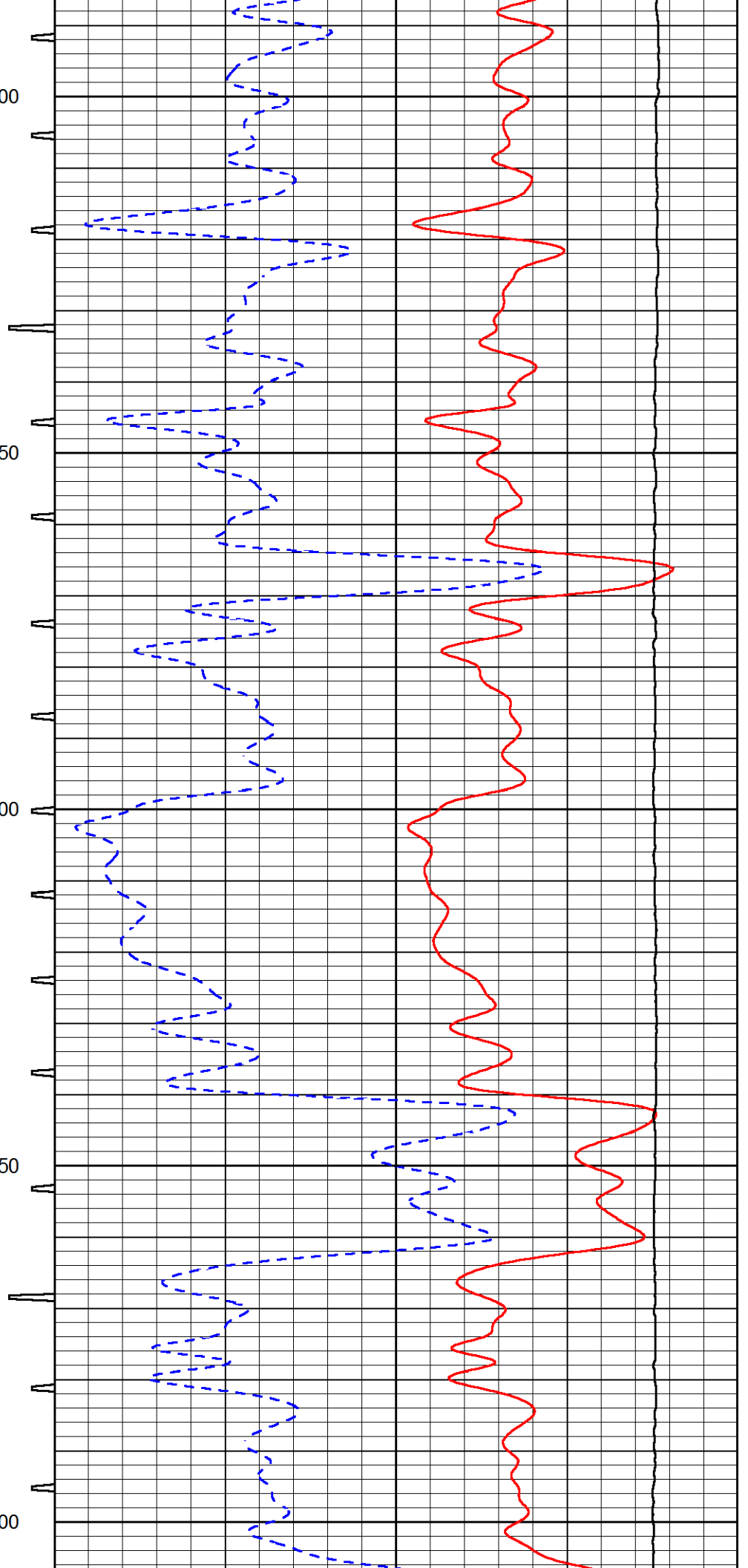
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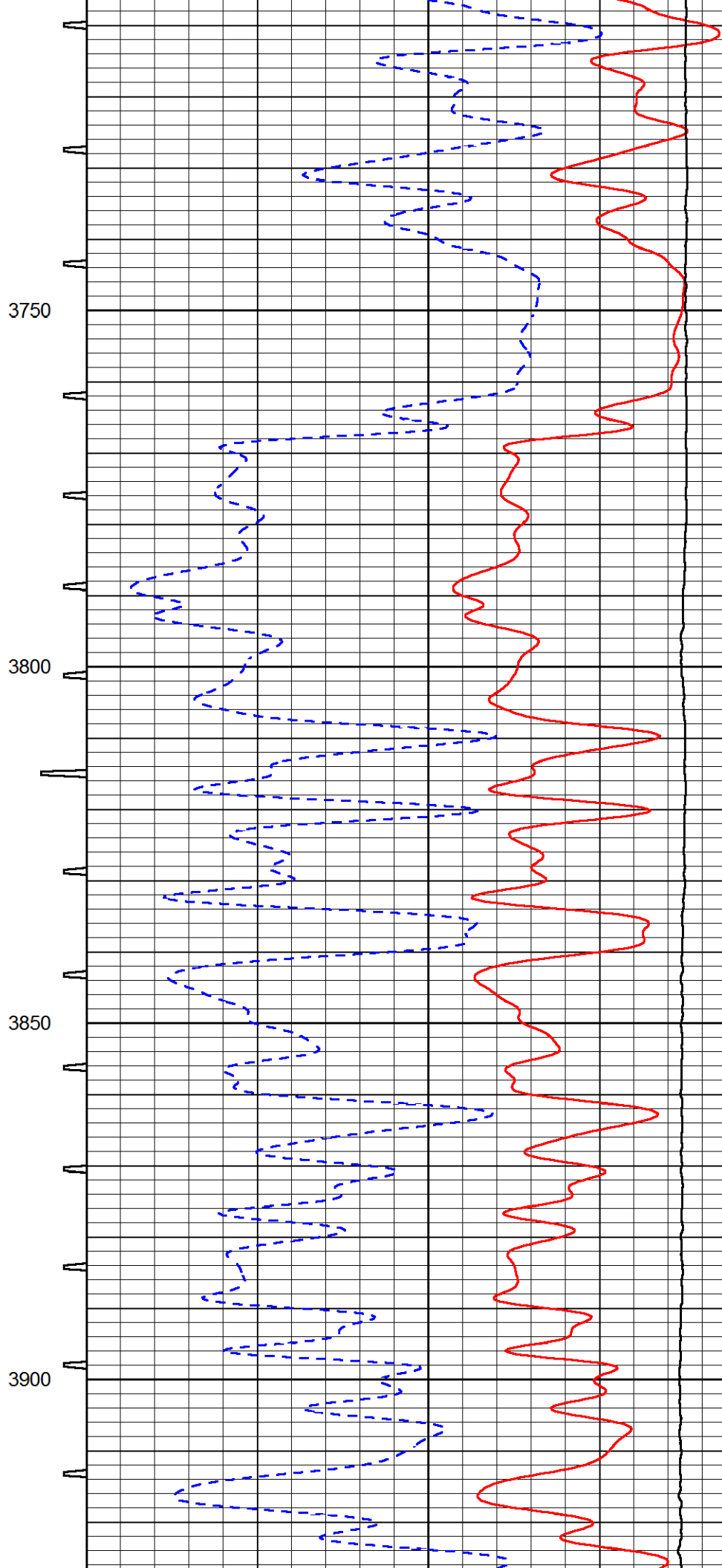
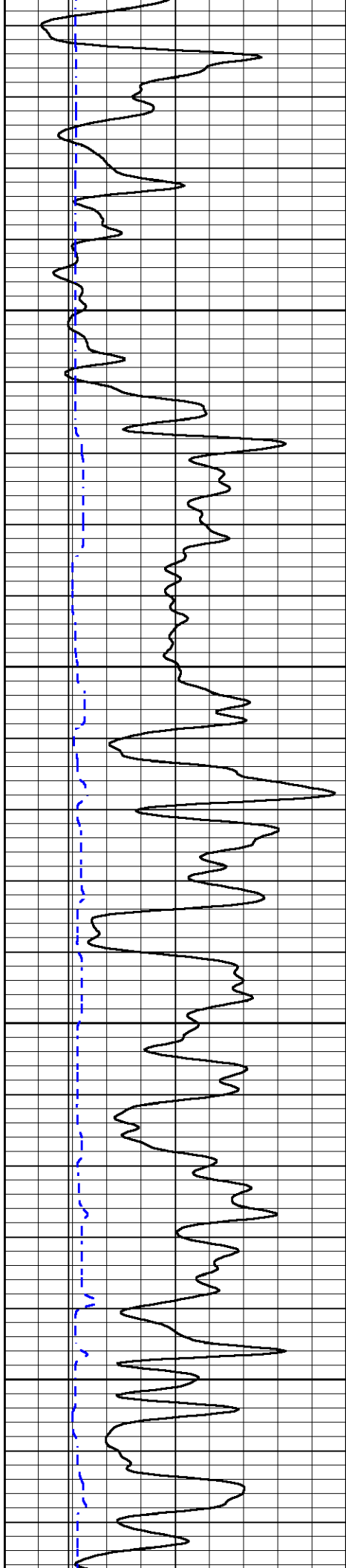
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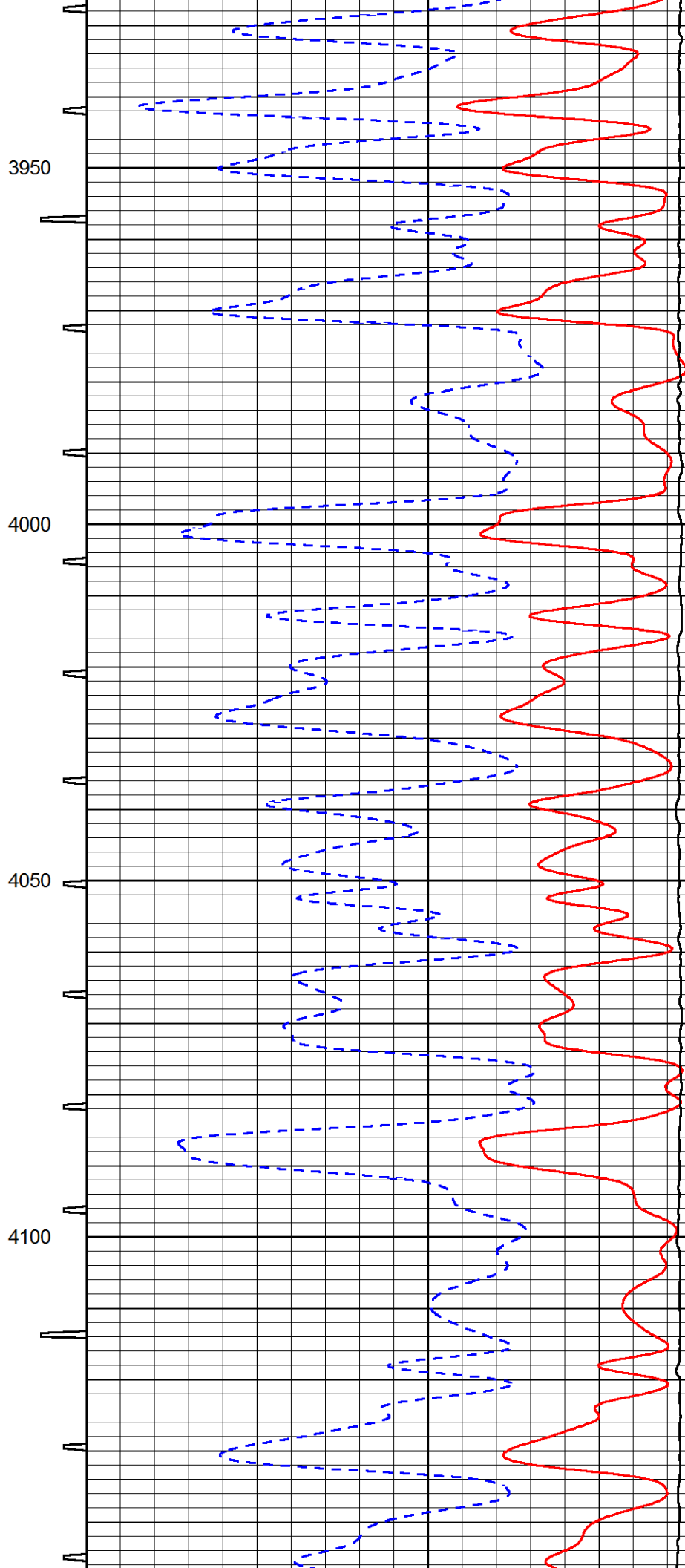
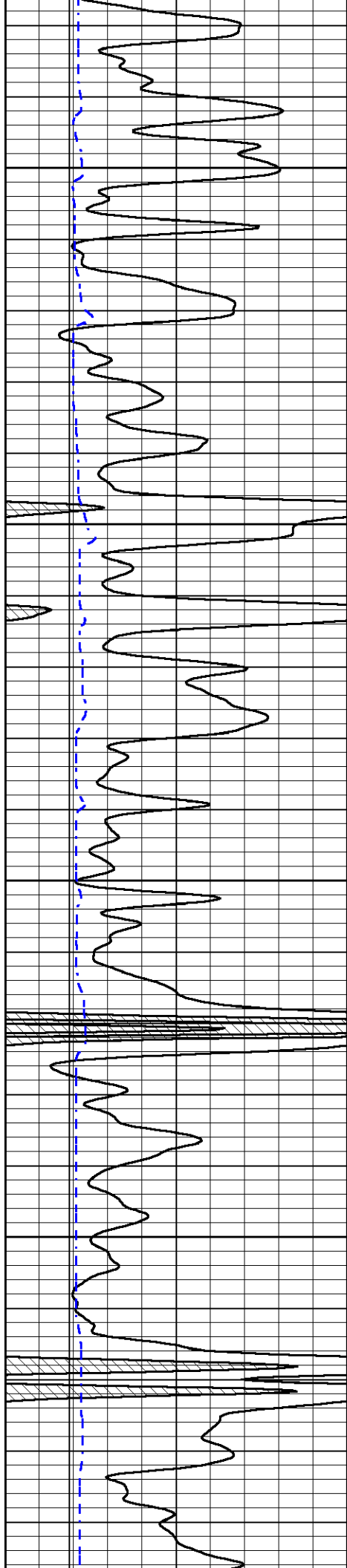
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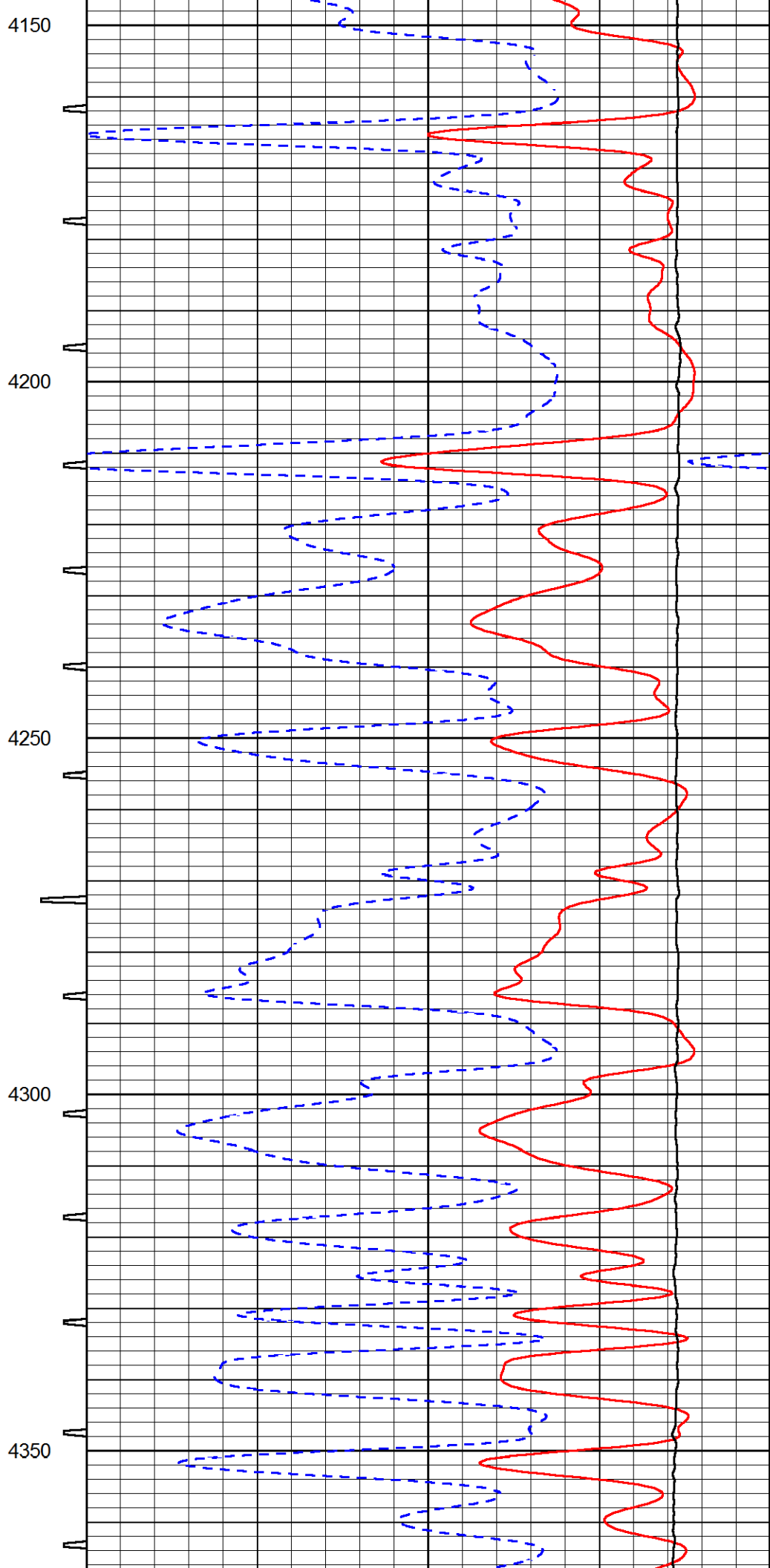
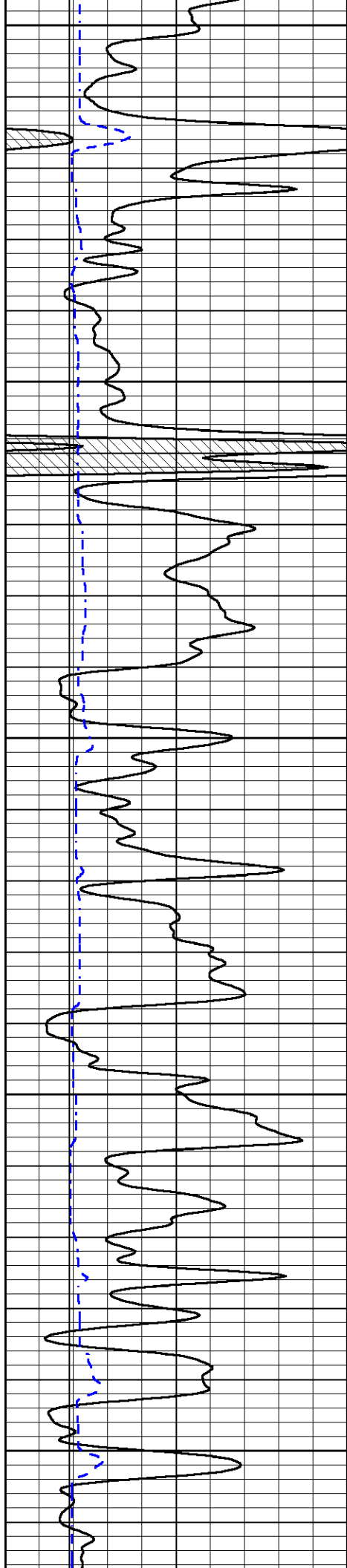
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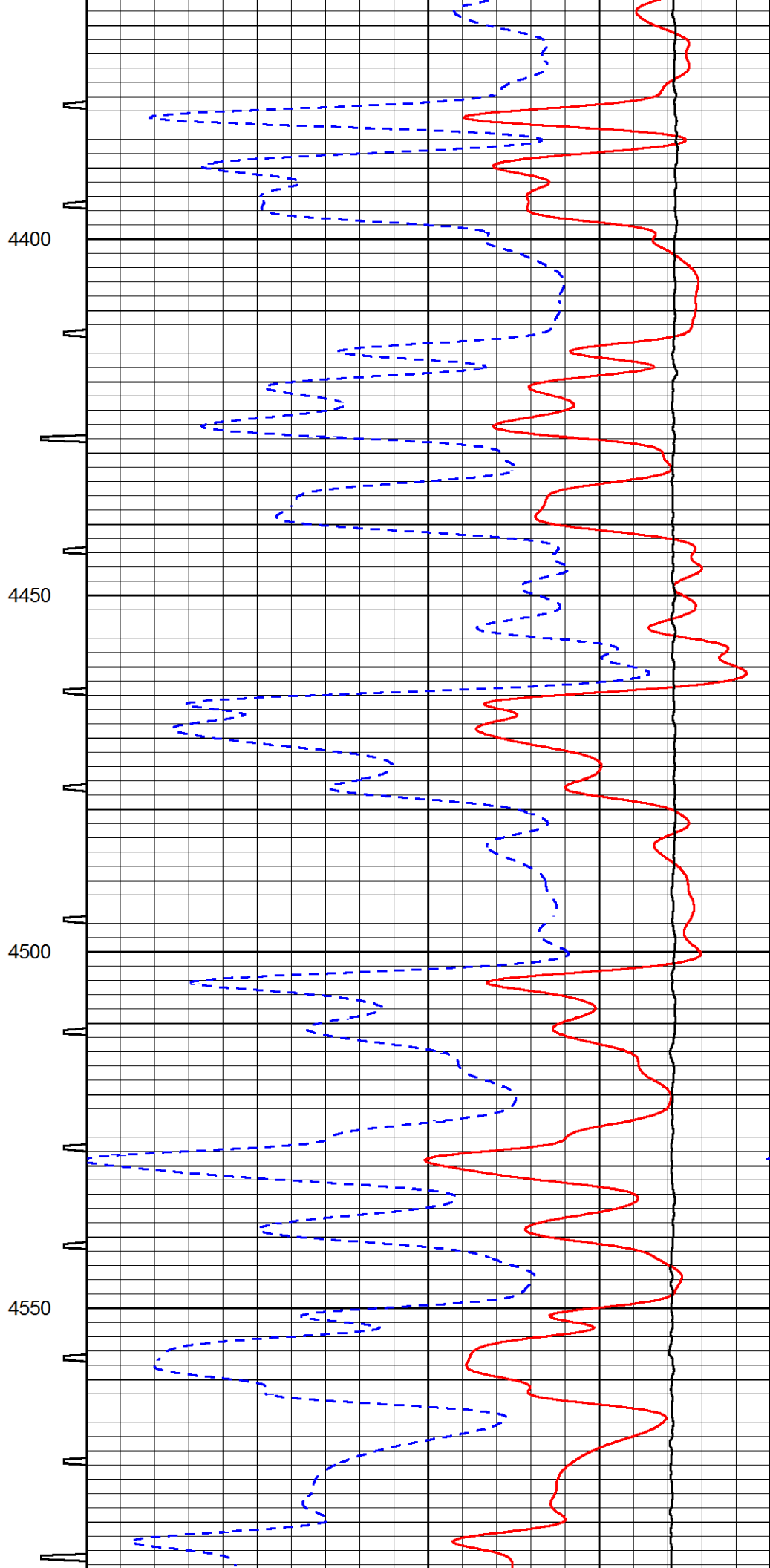
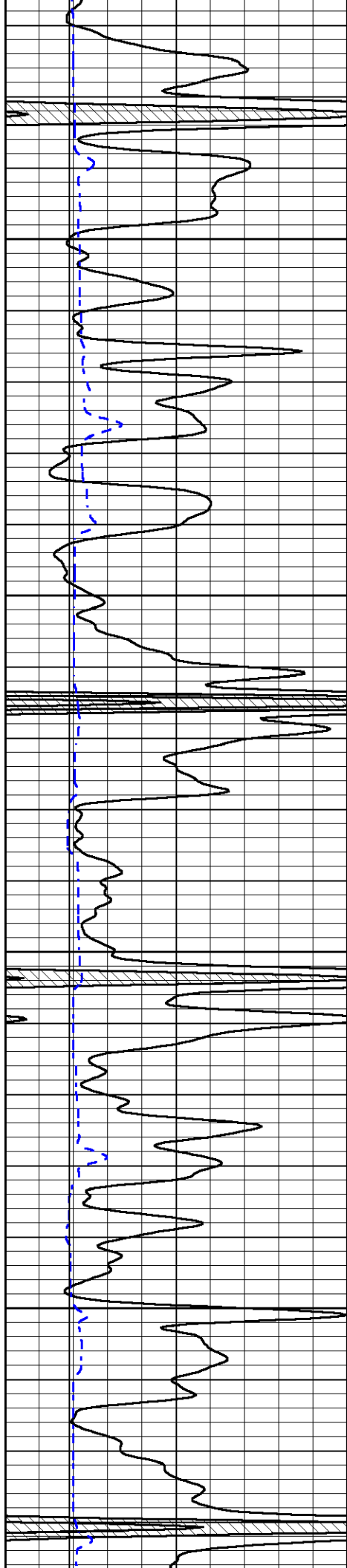
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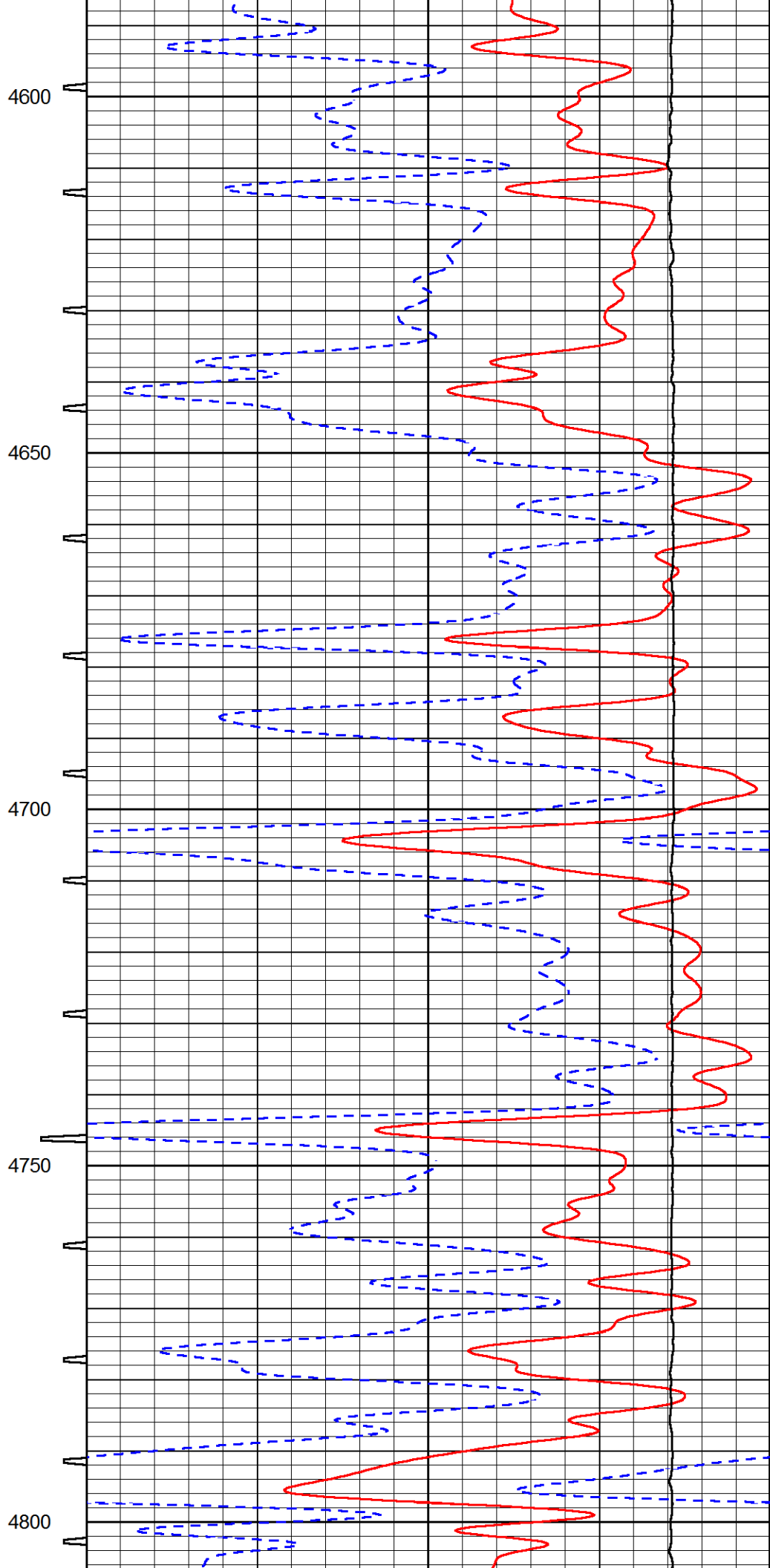
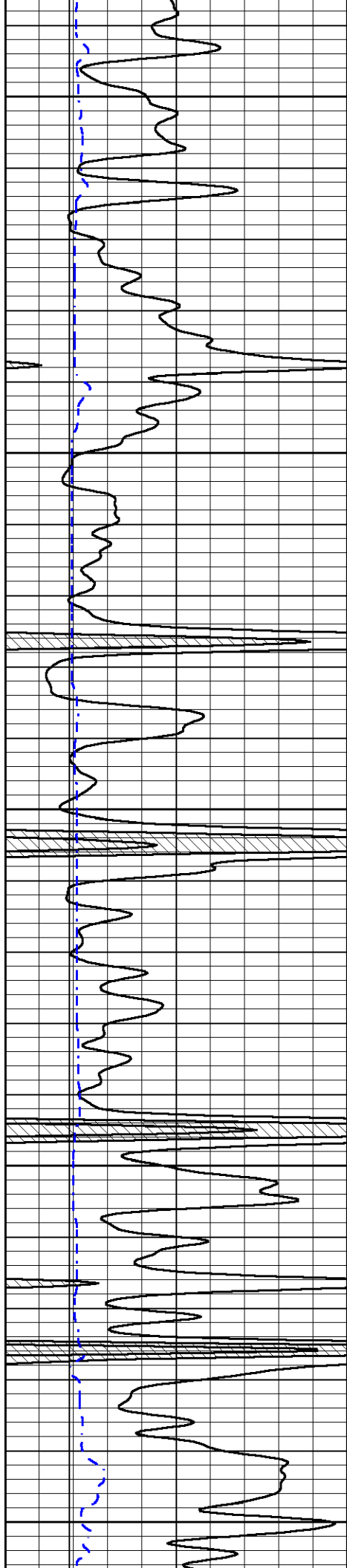


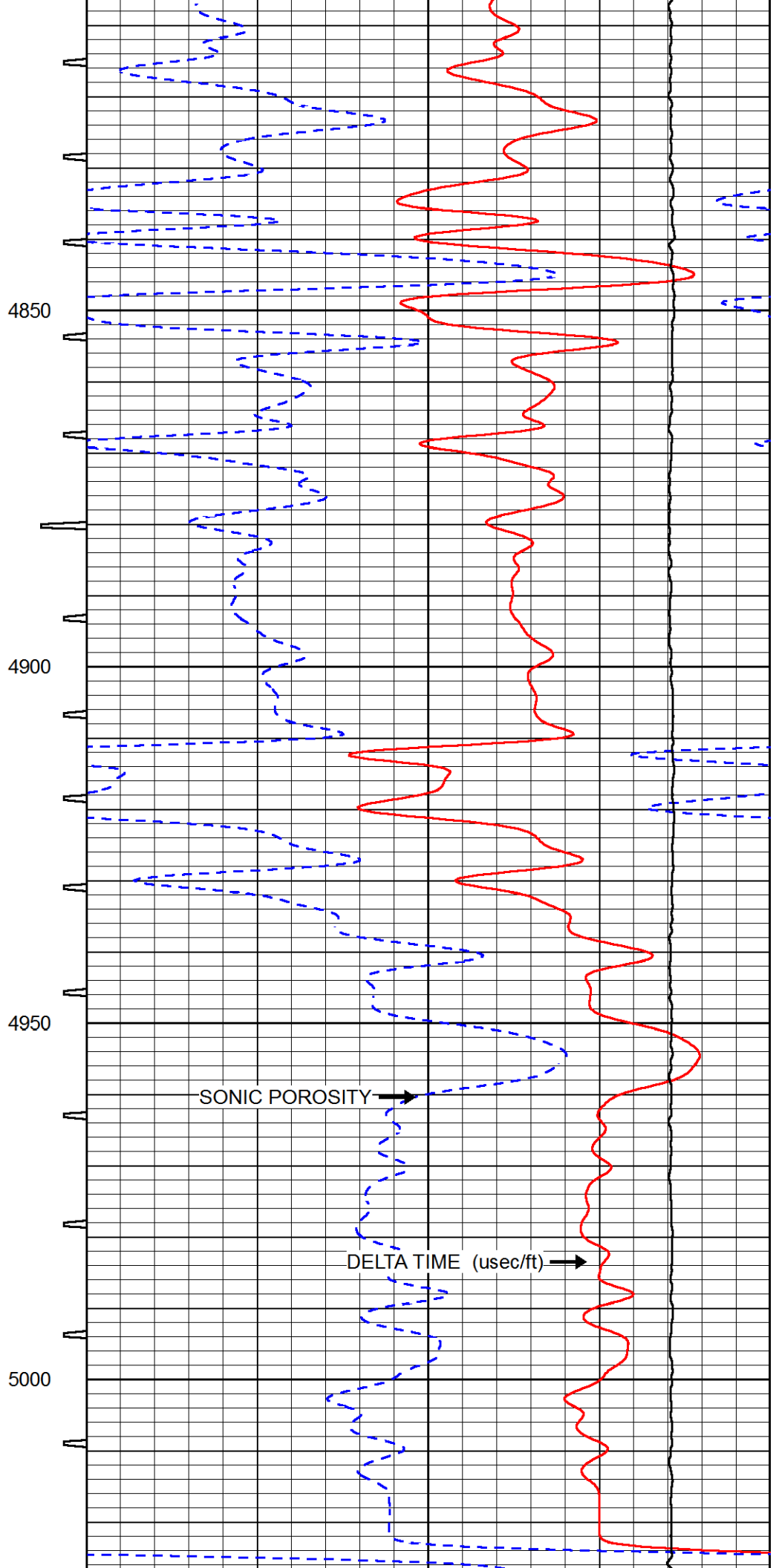
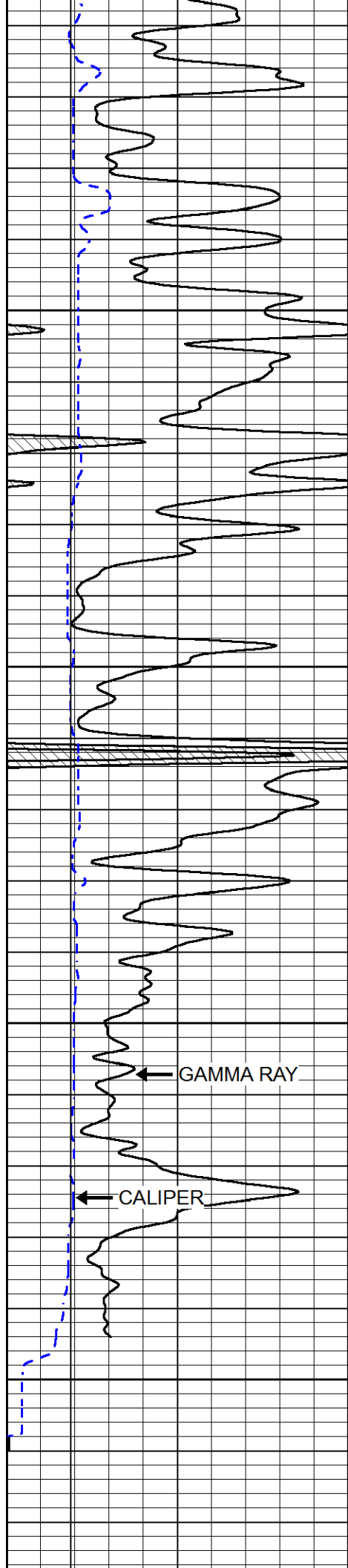












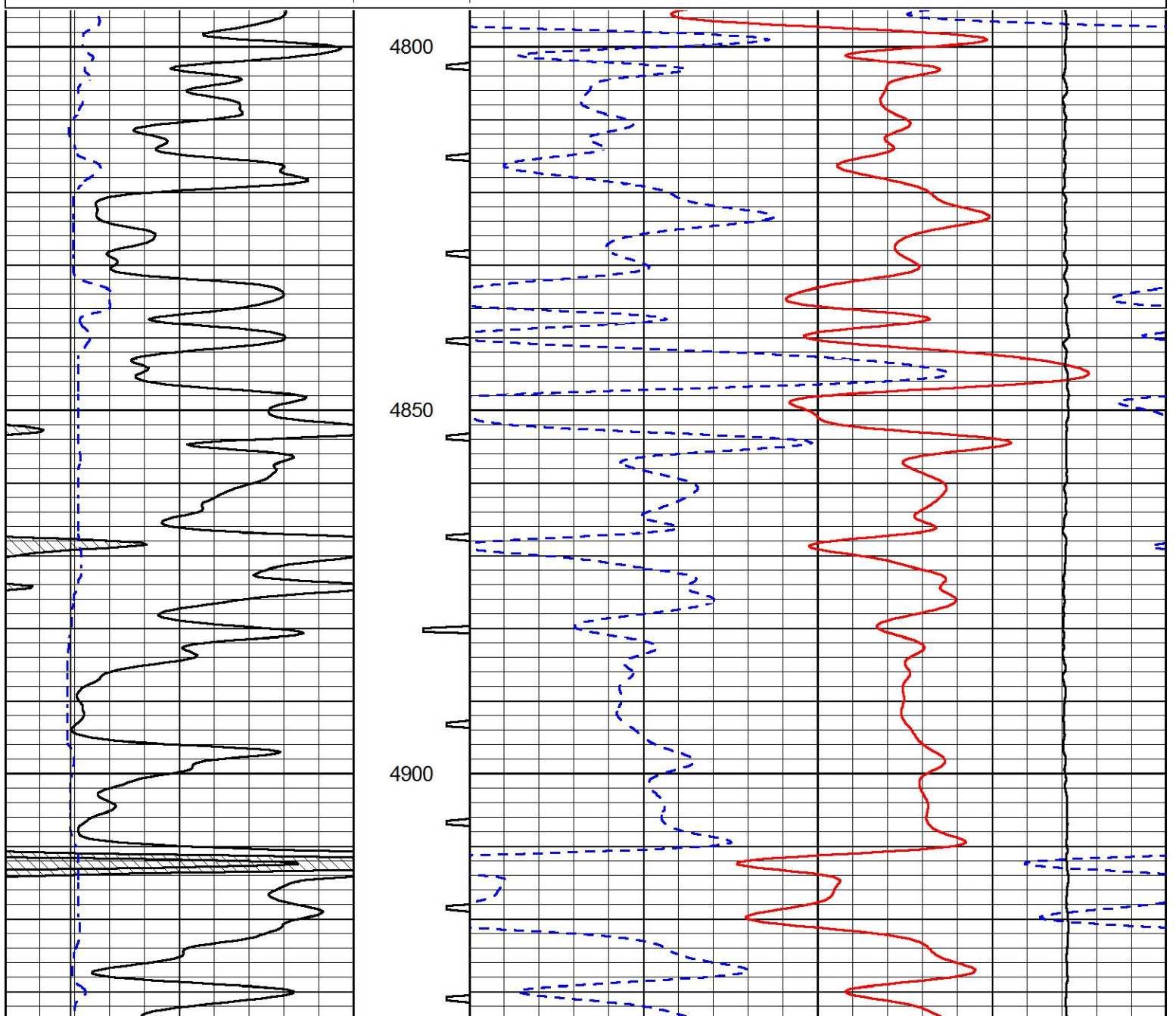
0	GAMMA RAY (GAPI)	150	SONIC INT	140	DELTA TIME (usec/ft) (usec/ft)	40
6	CALIPER (in)	16	TRAVEL TIME	30	SONIC POROSITY (pu)	-10
6	BIT SIZE	16	(msec)	15000	LINE TENSION (lb)	0

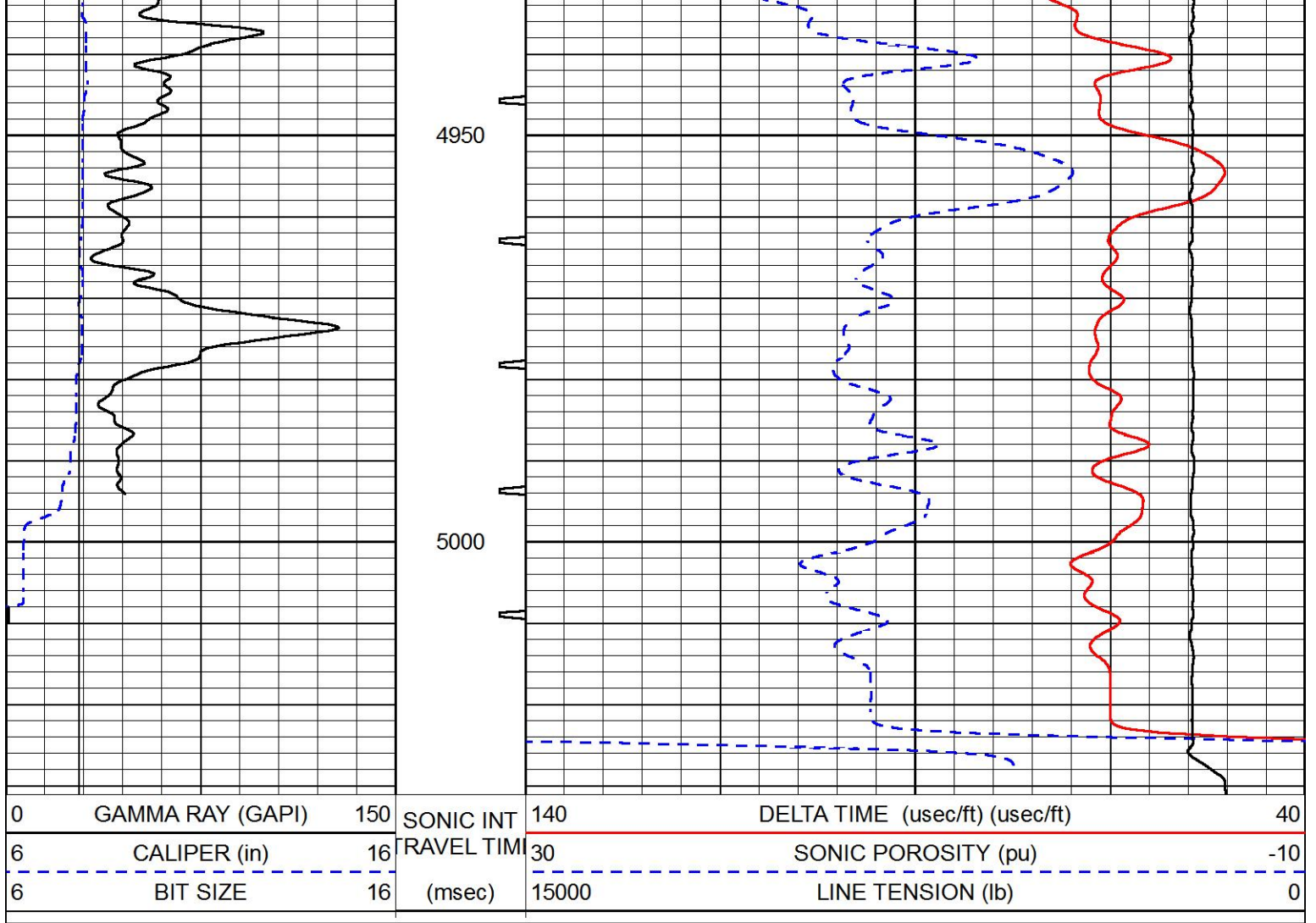


REPEAT SECTION

Database File: gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname: stackml/pass2.1
 Presentation Format: sonic
 Dataset Creation: Wed Apr 04 22:18:18 2018
 Charted by: Depth in Feet scaled 1:240

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





 <p>PIONEER Pioneer Energy Services</p>	Company	GULF EXPLORATION, LLC
	Well	CARPENTER TRUST NO. 1-18
	Field	WILDCAT
	County	THOMAS
	State	KANSAS



DUAL COMP POROSITY LOG

Company GULF EXPLORATION, LLC
Well CARPENTER TRUST NO. 1-18
Field WILDCAT
County THOMAS **State** KANSAS

Company GULF EXPLORATION, LLC
Well CARPENTER TRUST NO. 1-18
Field WILDCAT
County THOMAS
State KANSAS

Location: API #: 15-193-21014-00-00
 1185' FSL & 700' FWL
 SEC 18 TWP 7S RGE 36W
 Permanent Datum GROUND LEVEL Elevation 3364'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services: DIL MEL/BHCS
 Elevation: K.B. 3369' D.F. N/A G.L. 3364'

Date	4/4/2018
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	5025'
Depth Logger	5026'
Bottom Logged Interval	4997"
Top Logged Interval	2000'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	2900
Density	9.2
Level	FULL
Max. Rec. Temp. F	126 DEG/F
Operating Rig Time	5 HOURS
Equipment -- Location	108 HAYS
Recorded By	J. HENRICKSON
Witnessed By	KEITH REAVIS

Run No.	Bit	Borehole Record		Casing Record	
		From	To	From	To
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TWO	7.875"	303'	TD		

<<< Fold Here >>>

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Comments
 N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
 BREWSTER KANSAS
 NORTH TO V ROAD, 1 WEST, NORTH INTO

 Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum
 THANK YOU FOR USING PIONEER ENERGY SERVICES
 www.pioneerenergy.com 785-625-3858







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

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gulf_exploration_carpenier_trust_1_18.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	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	3	-255	57	Off	5026

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3 RLL3F	15.80 15.79					
CILD	8.00		DIL-M&W (PSI 978)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: gulf_exploration_carpenter_trust_1_18.db: field/well/stackml/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

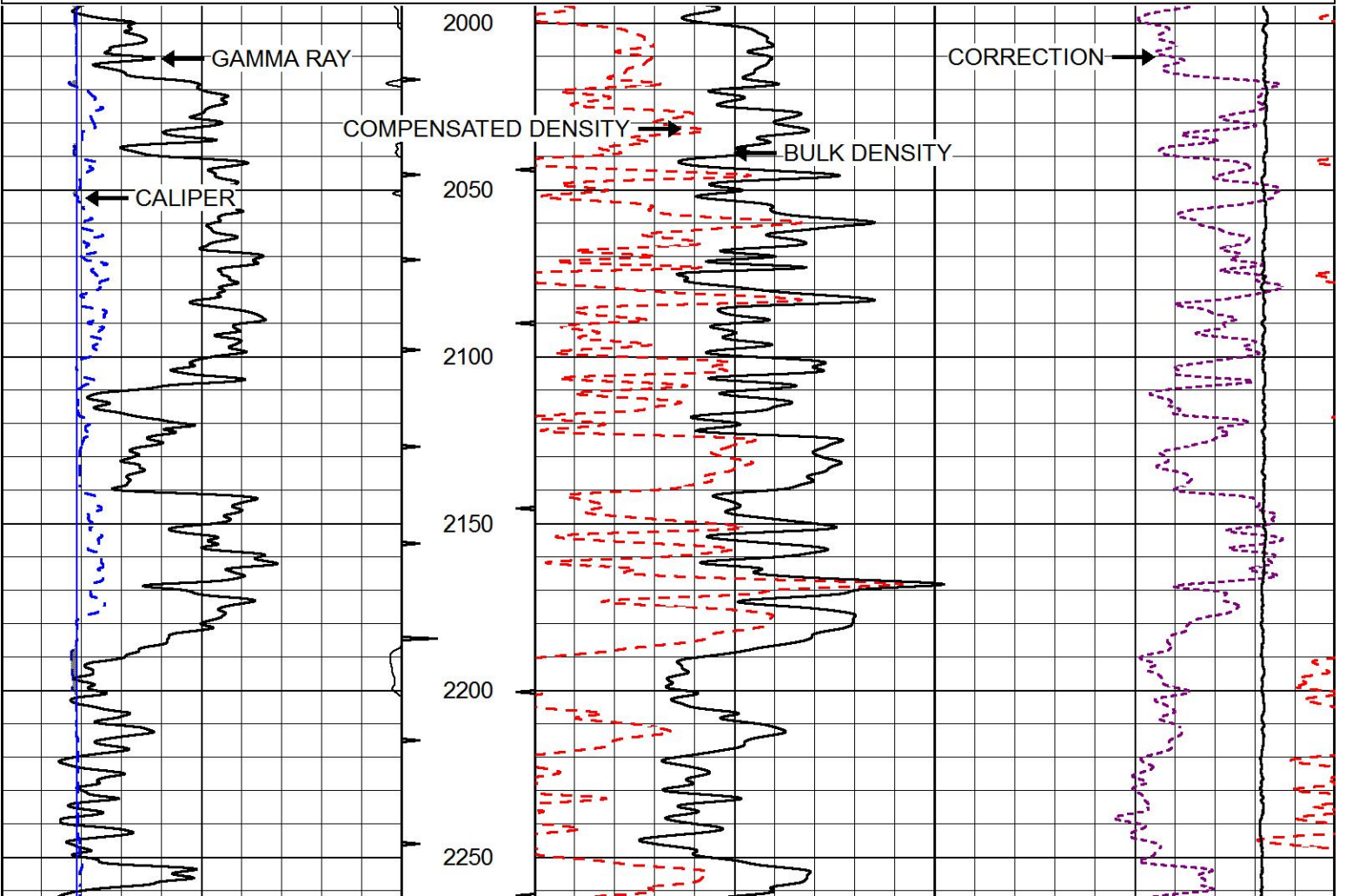


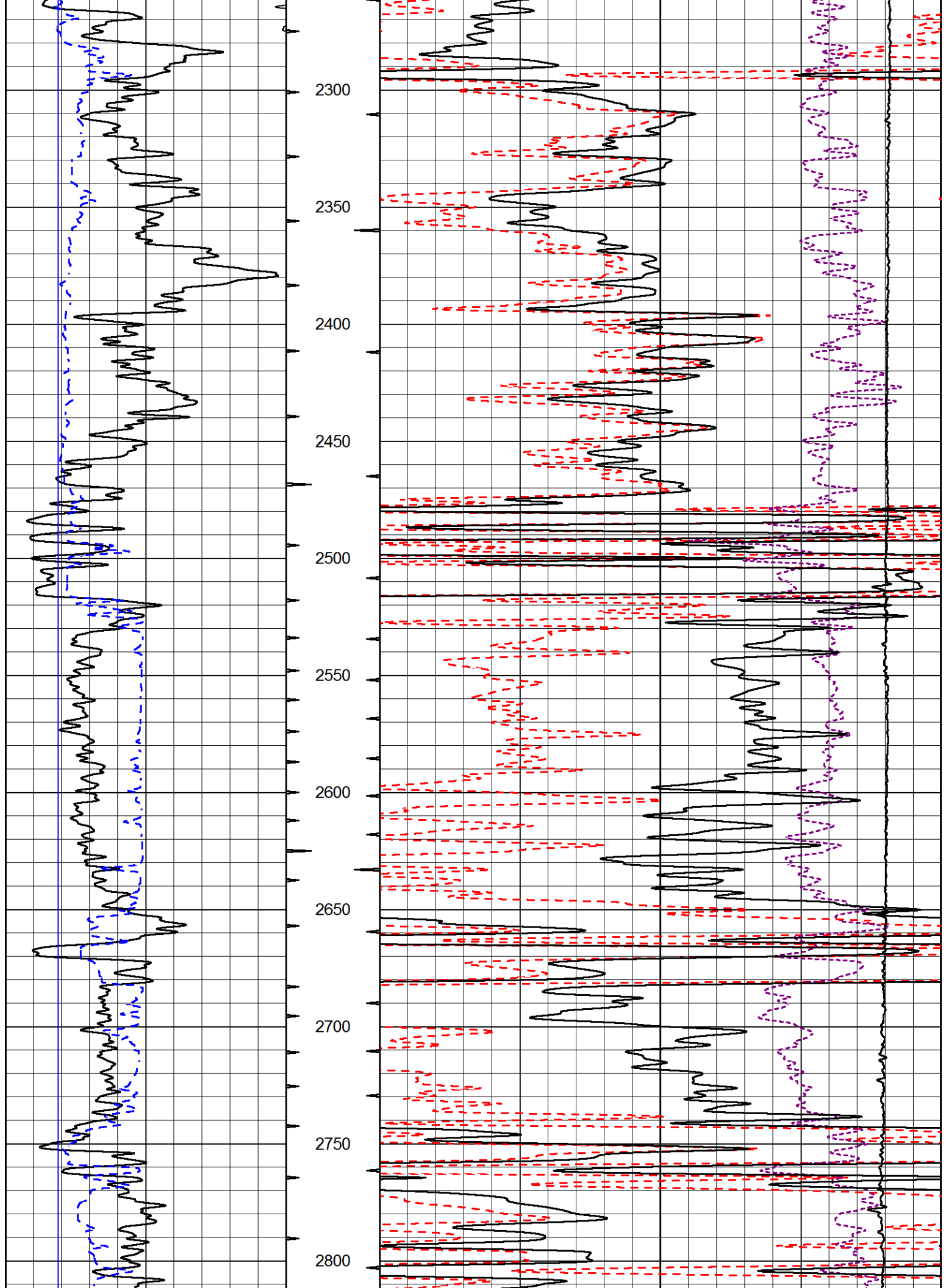
MAIN PASS

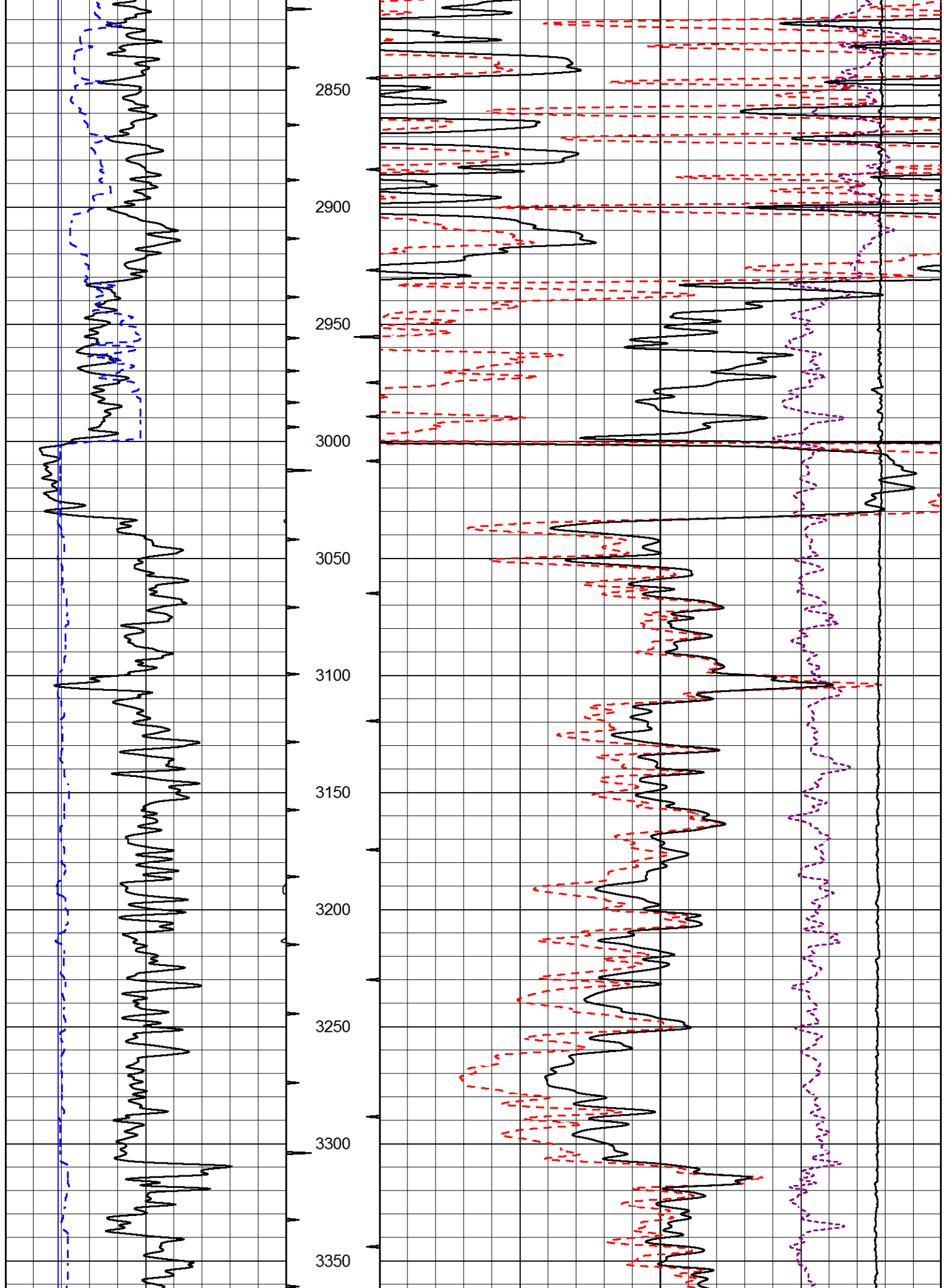
Database File gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname stackml/pass3.1
 Presentation Format cdl
 Dataset Creation Wed Apr 04 22:18:07 2018
 Charted by Depth in Feet scaled 1:600

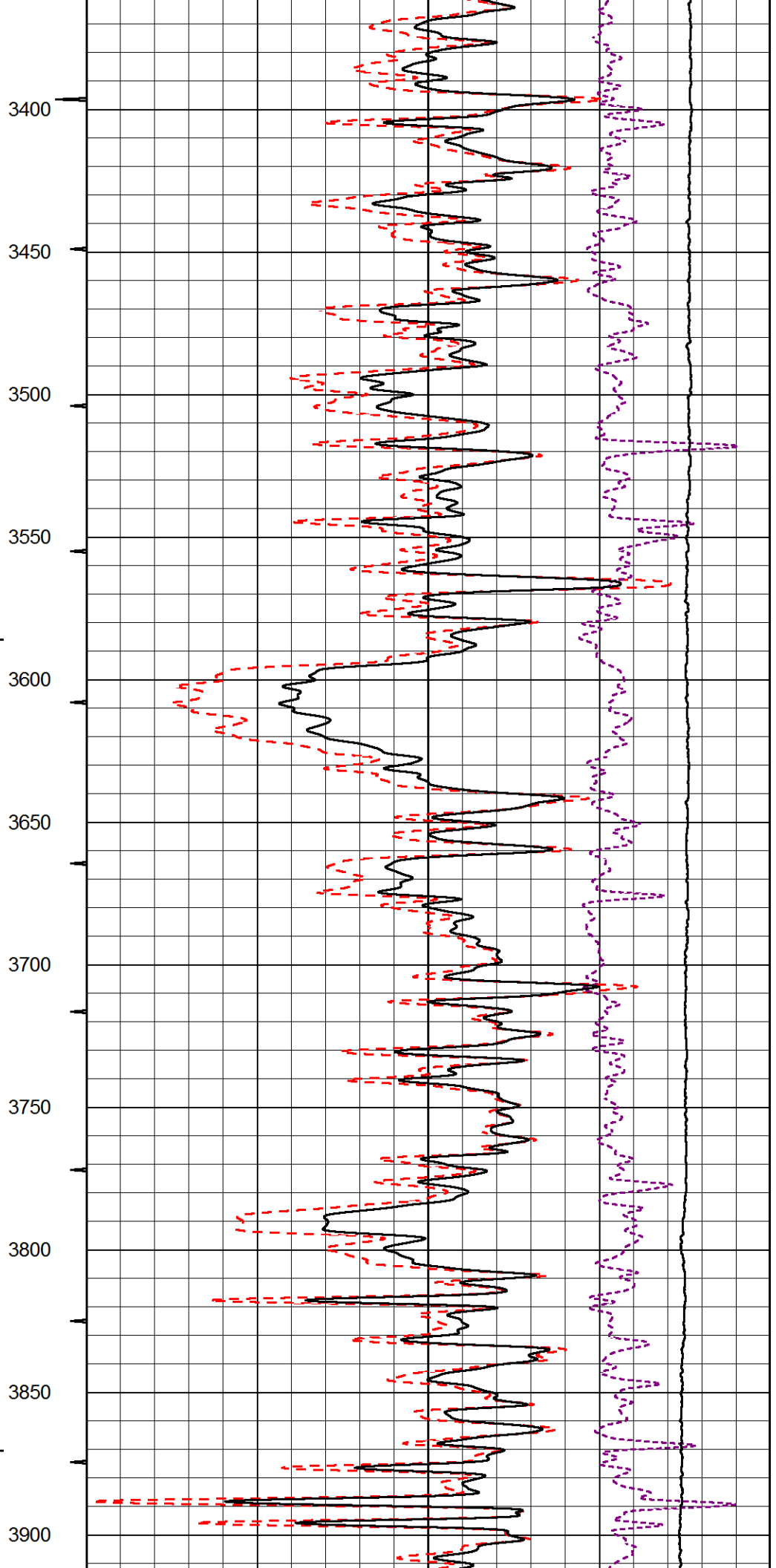
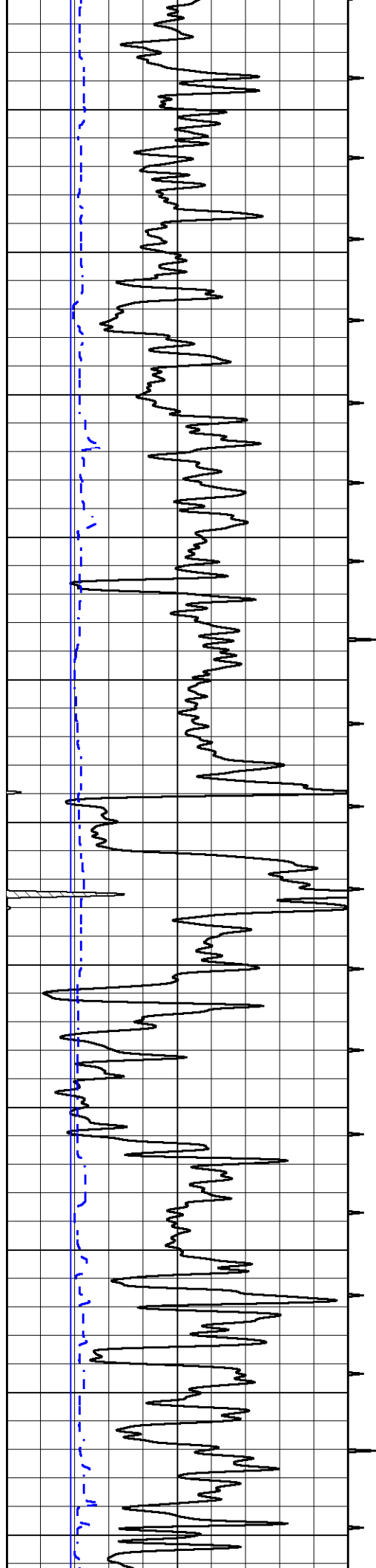
0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

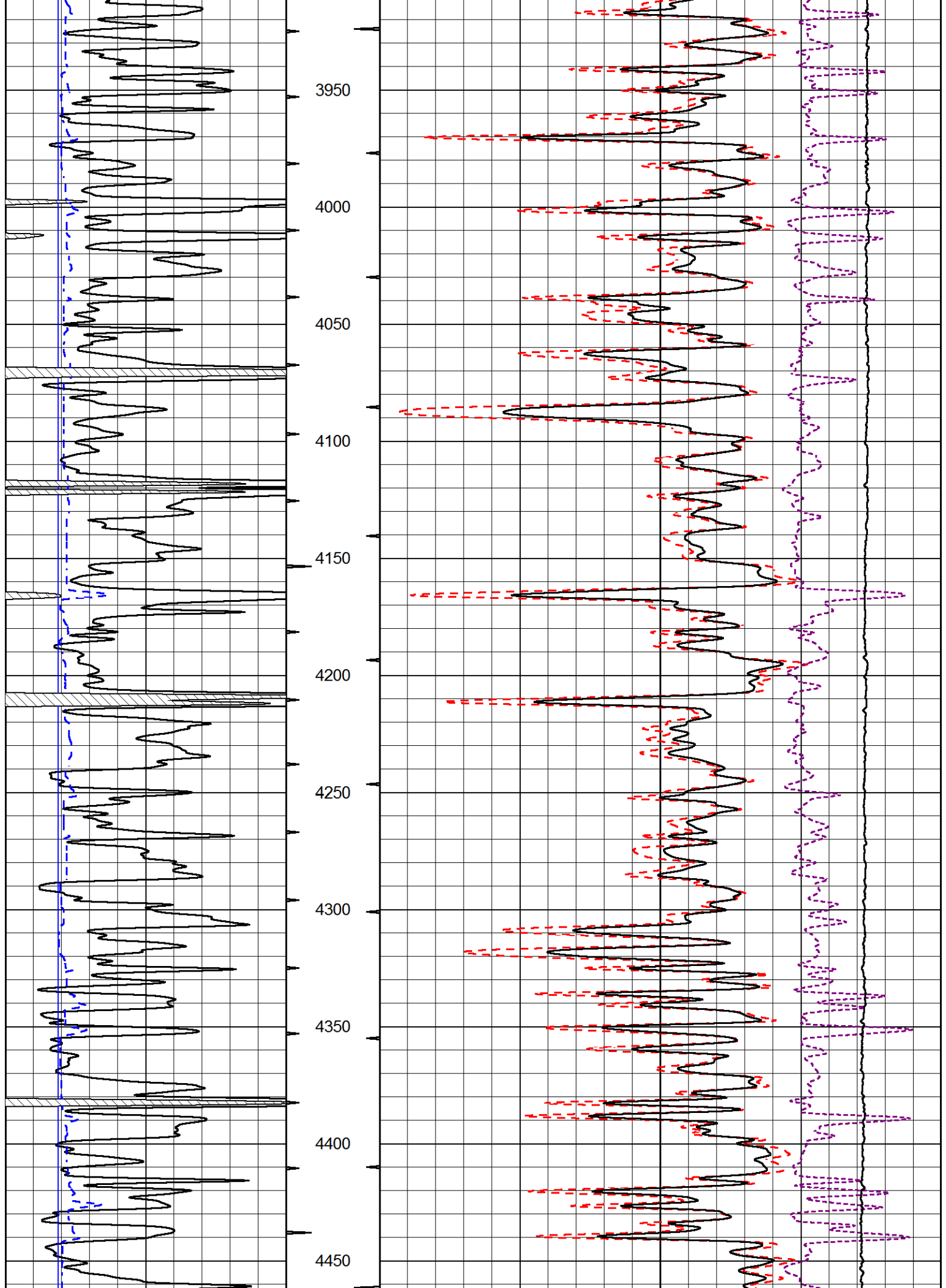
30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25

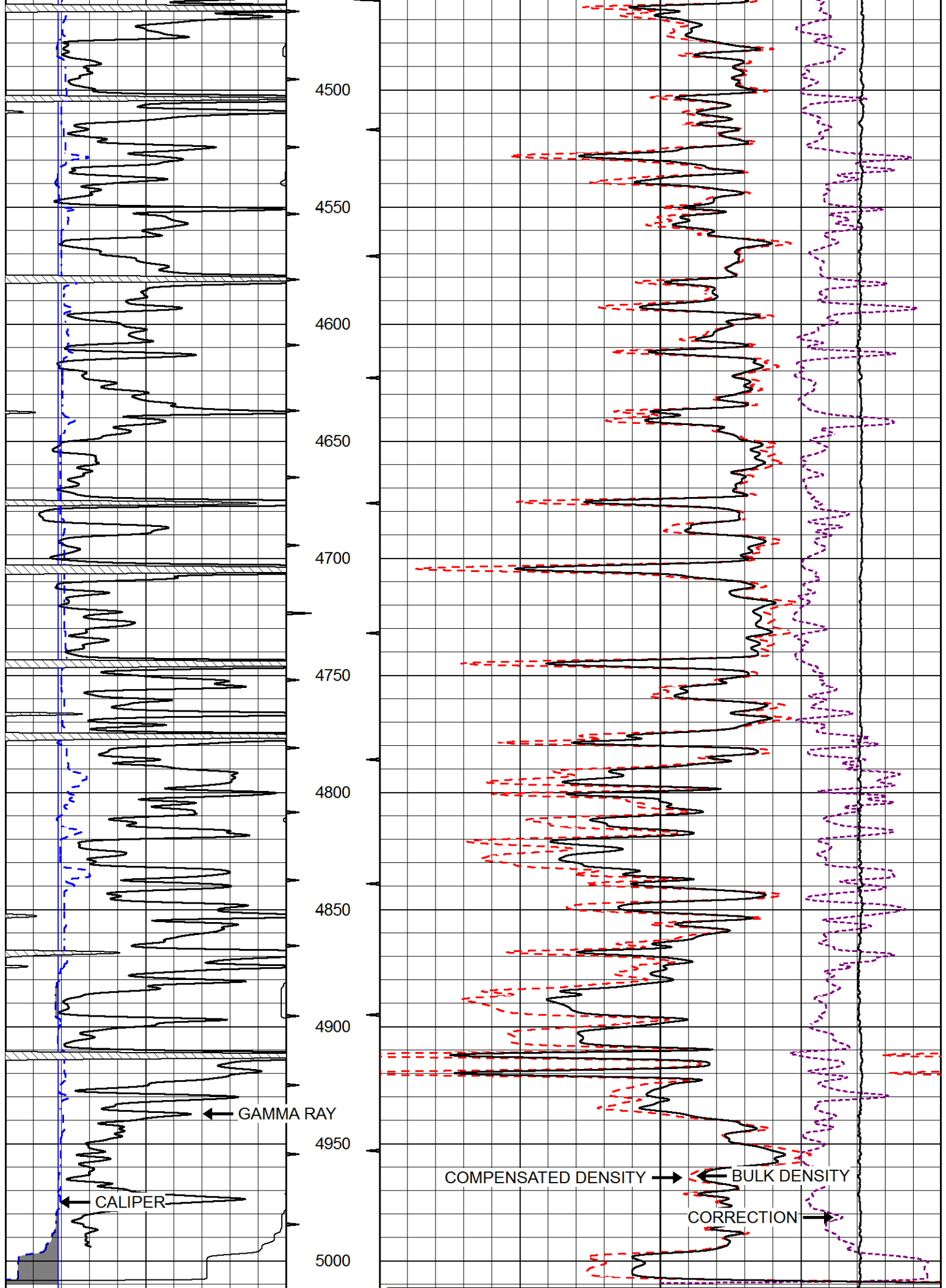












0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25



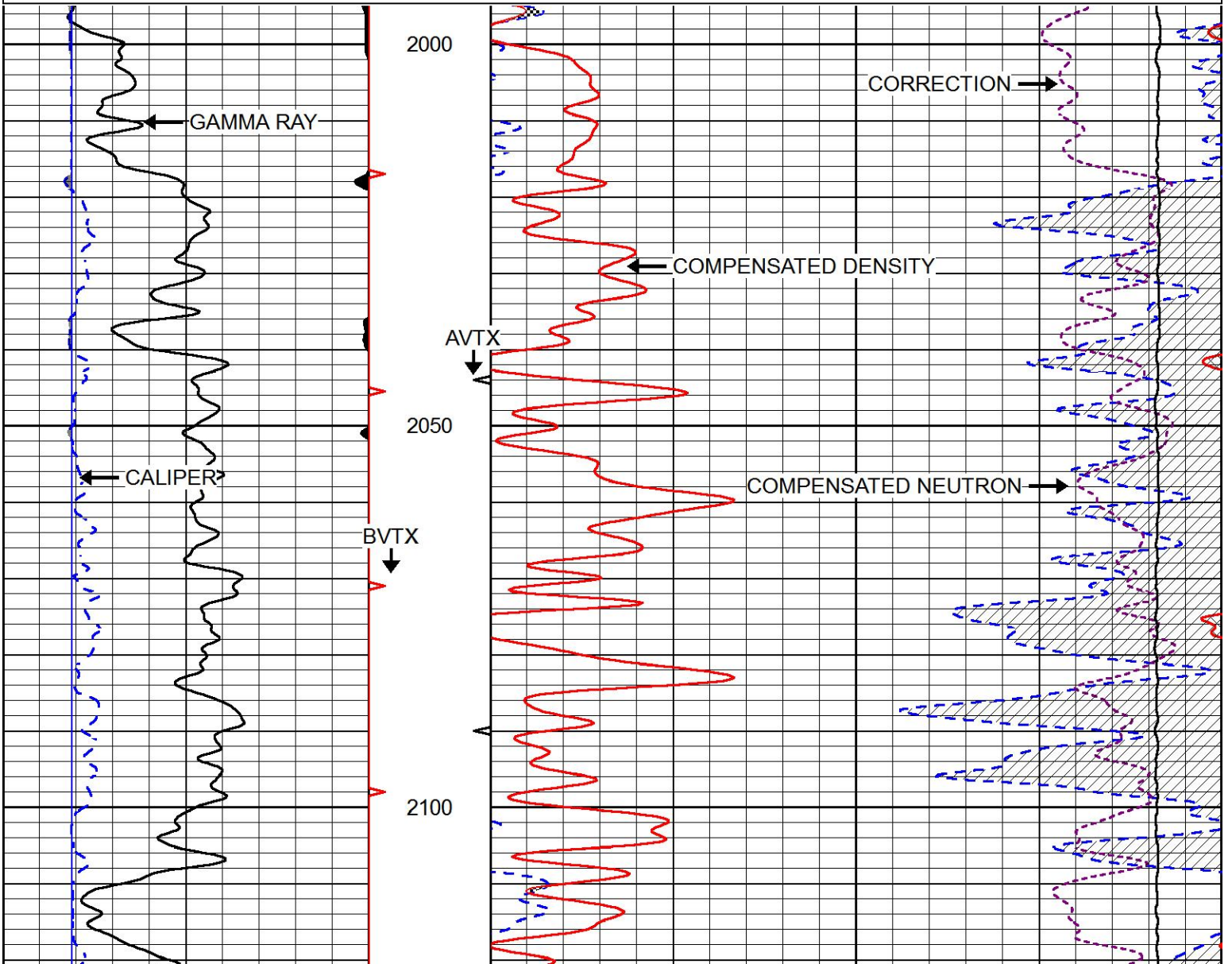
MAIN PASS

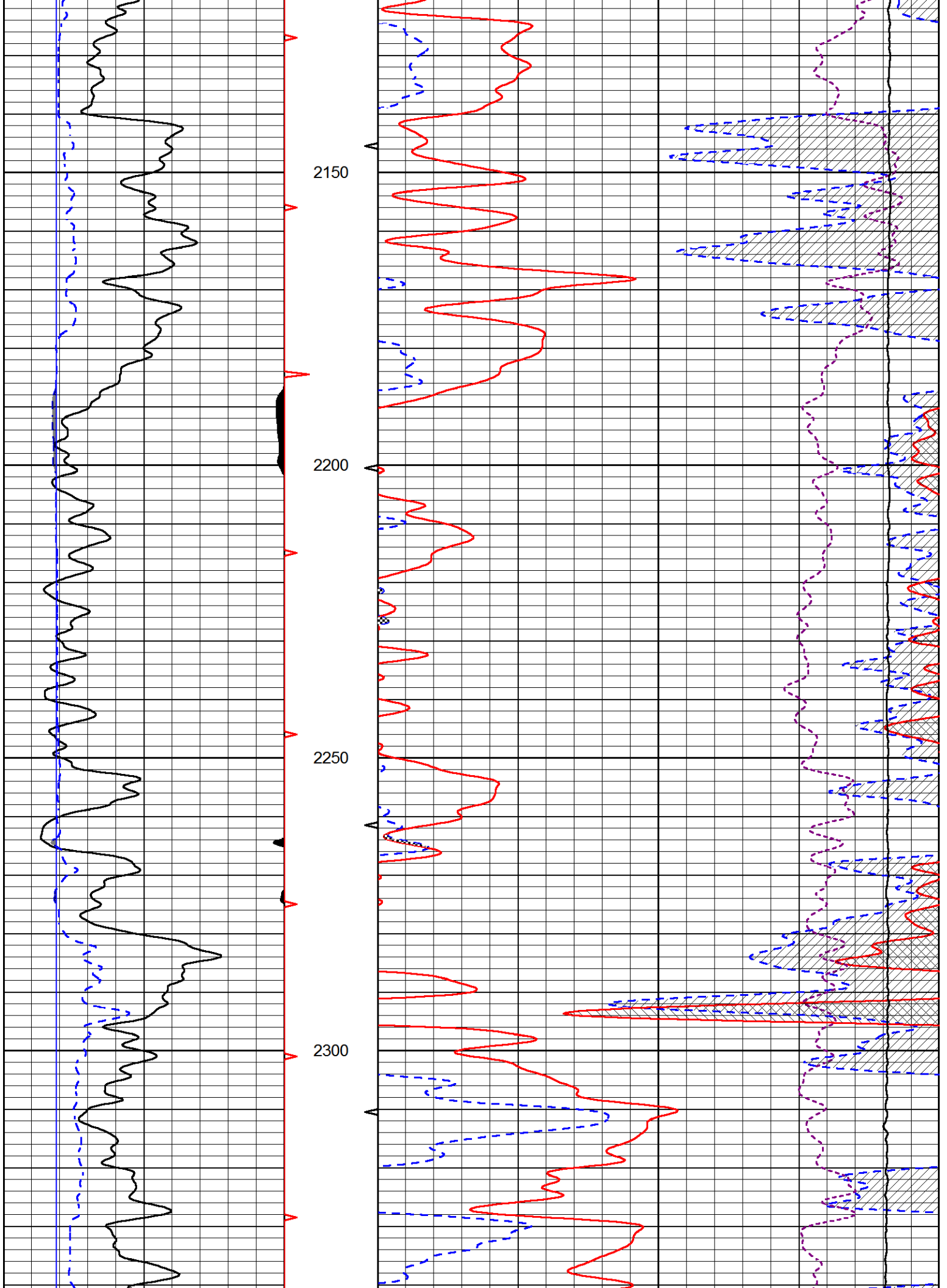
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Dataset Pathname	stackml/pass3.1
Presentation Format	cnldspec
Dataset Creation	Wed Apr 04 22:18:07 2018
Charted by	Depth in Feet scaled 1:240

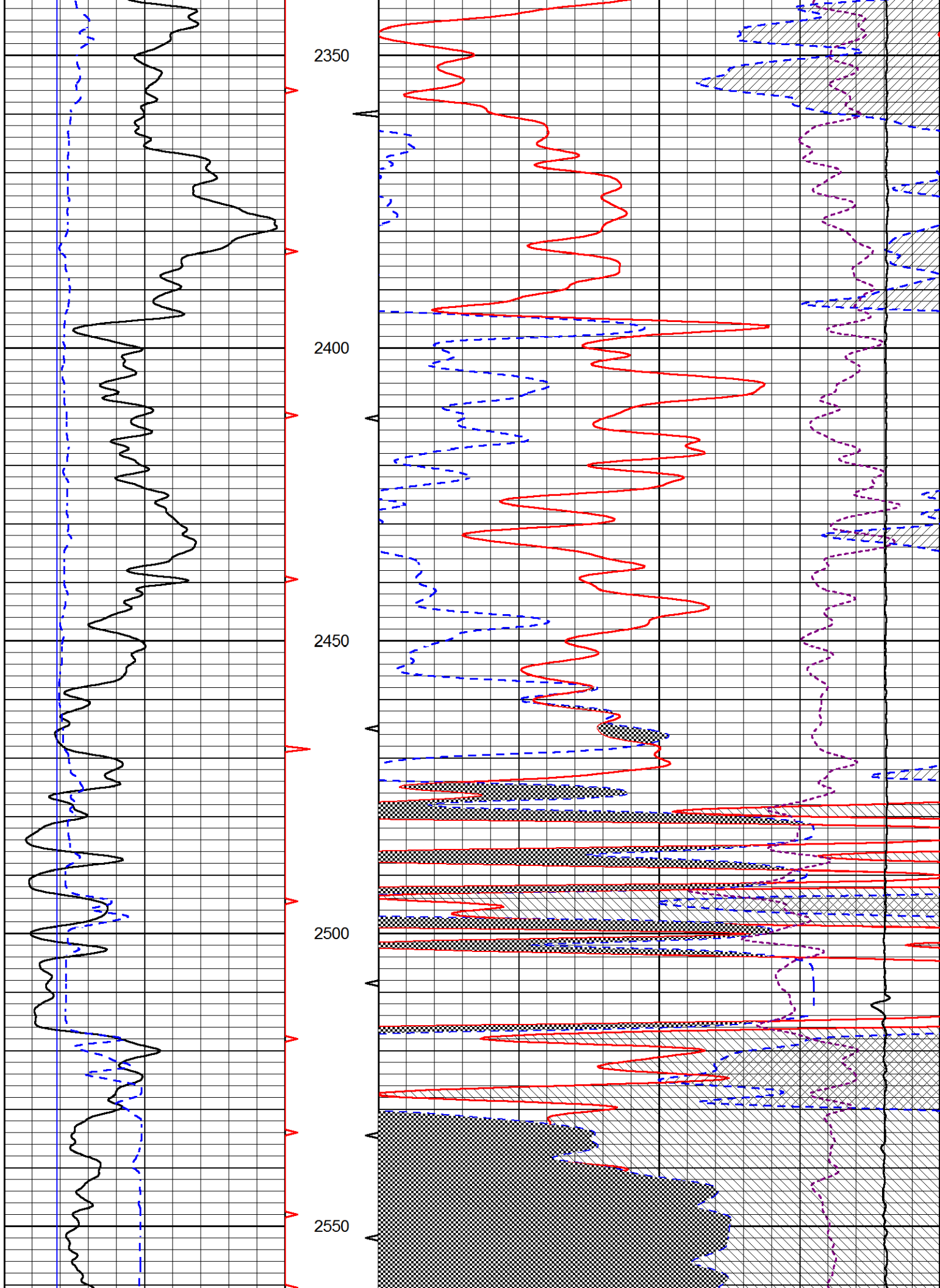
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6	dcal (in)	16
6	BIT SIZE (in)	16

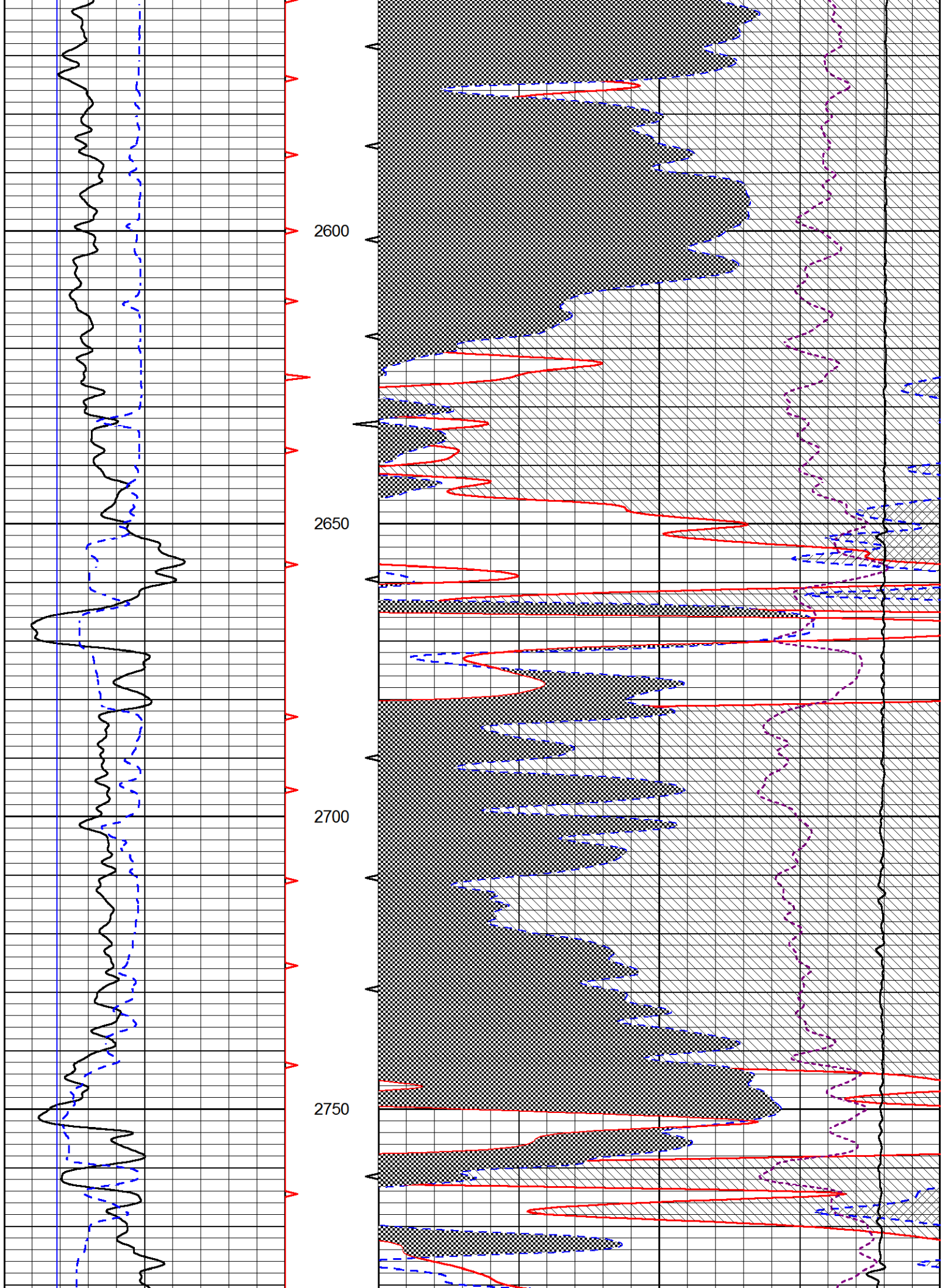
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30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
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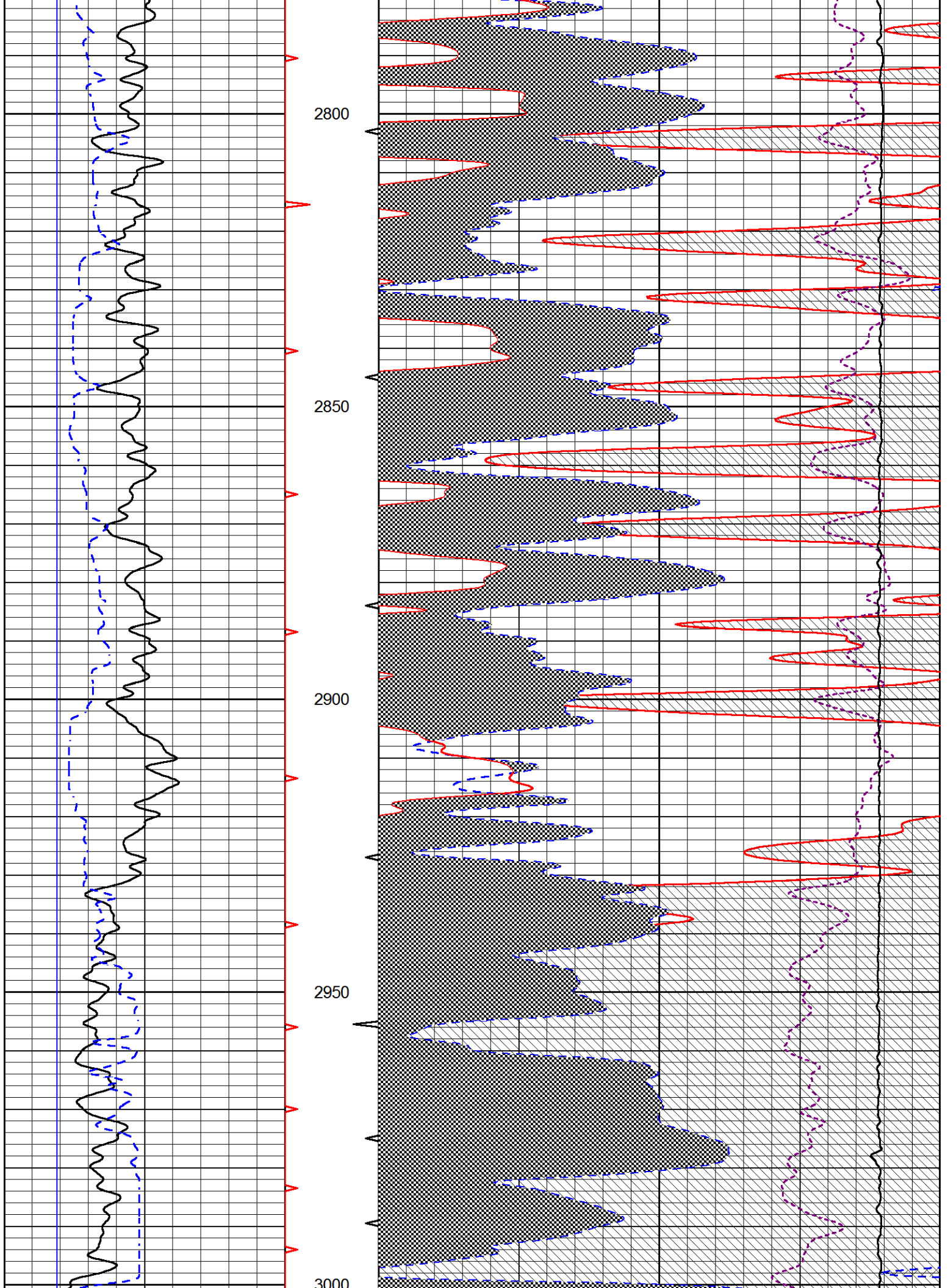
-0.25	CORRECTION (g/cc)	0.25
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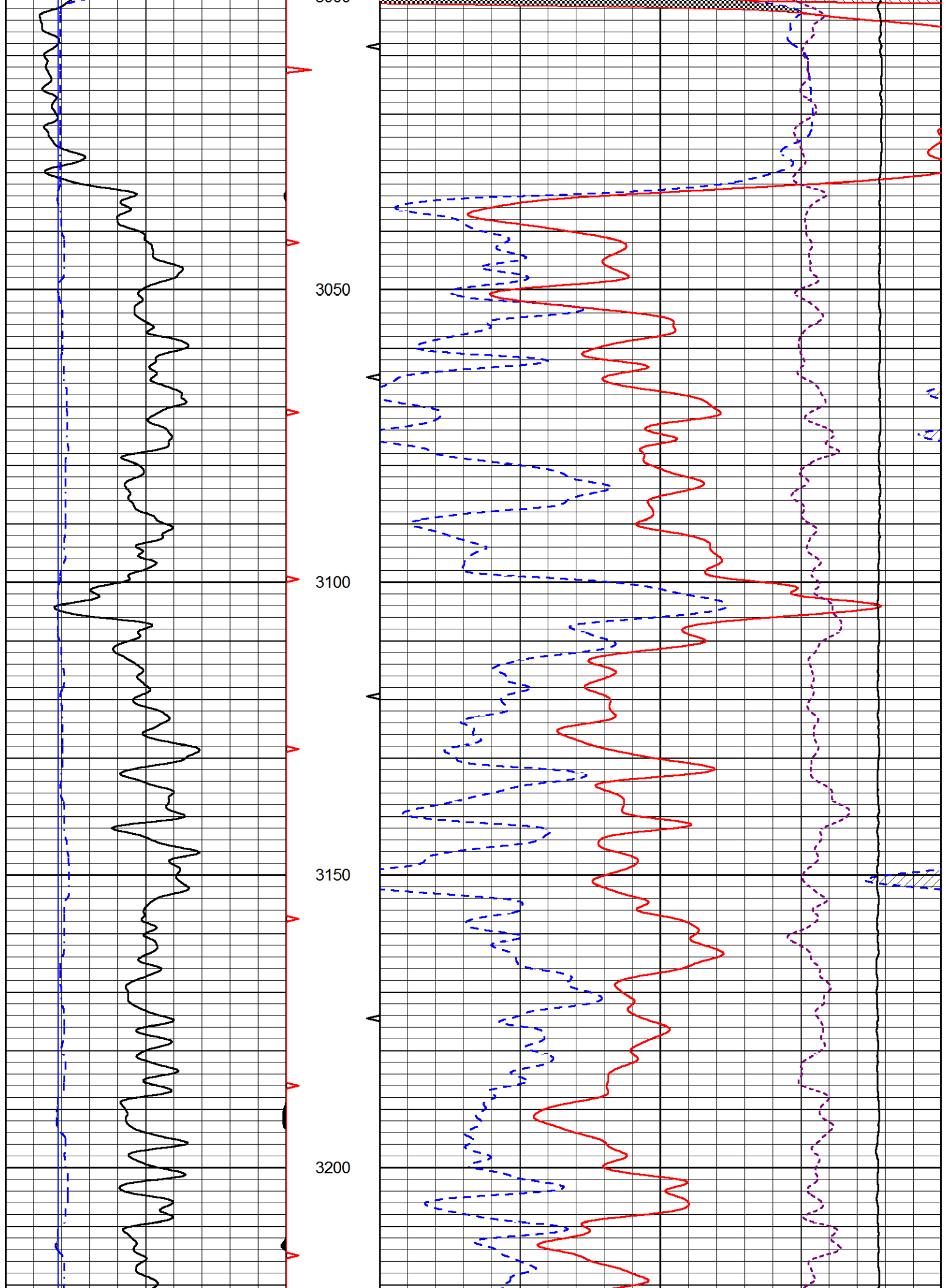


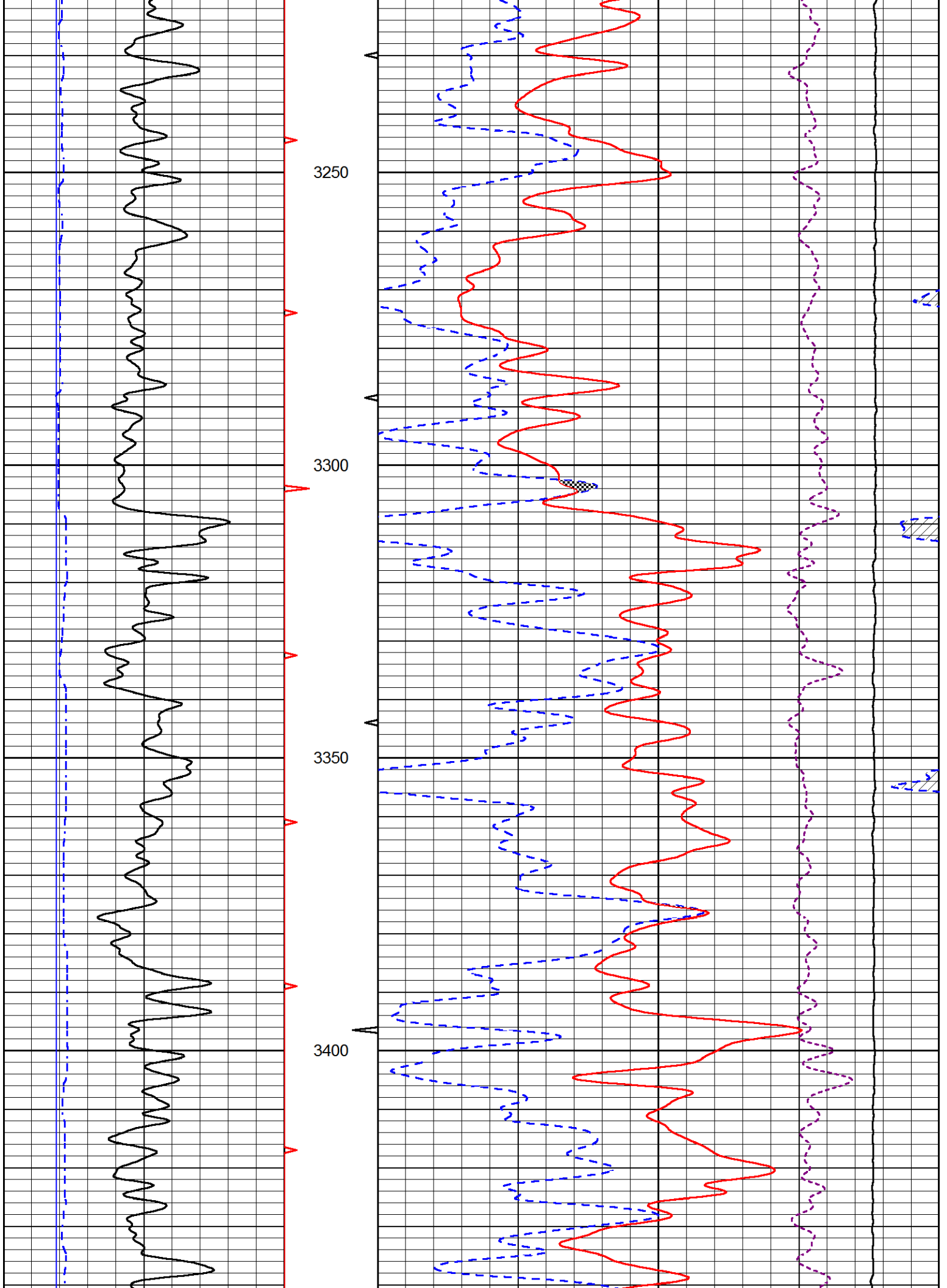


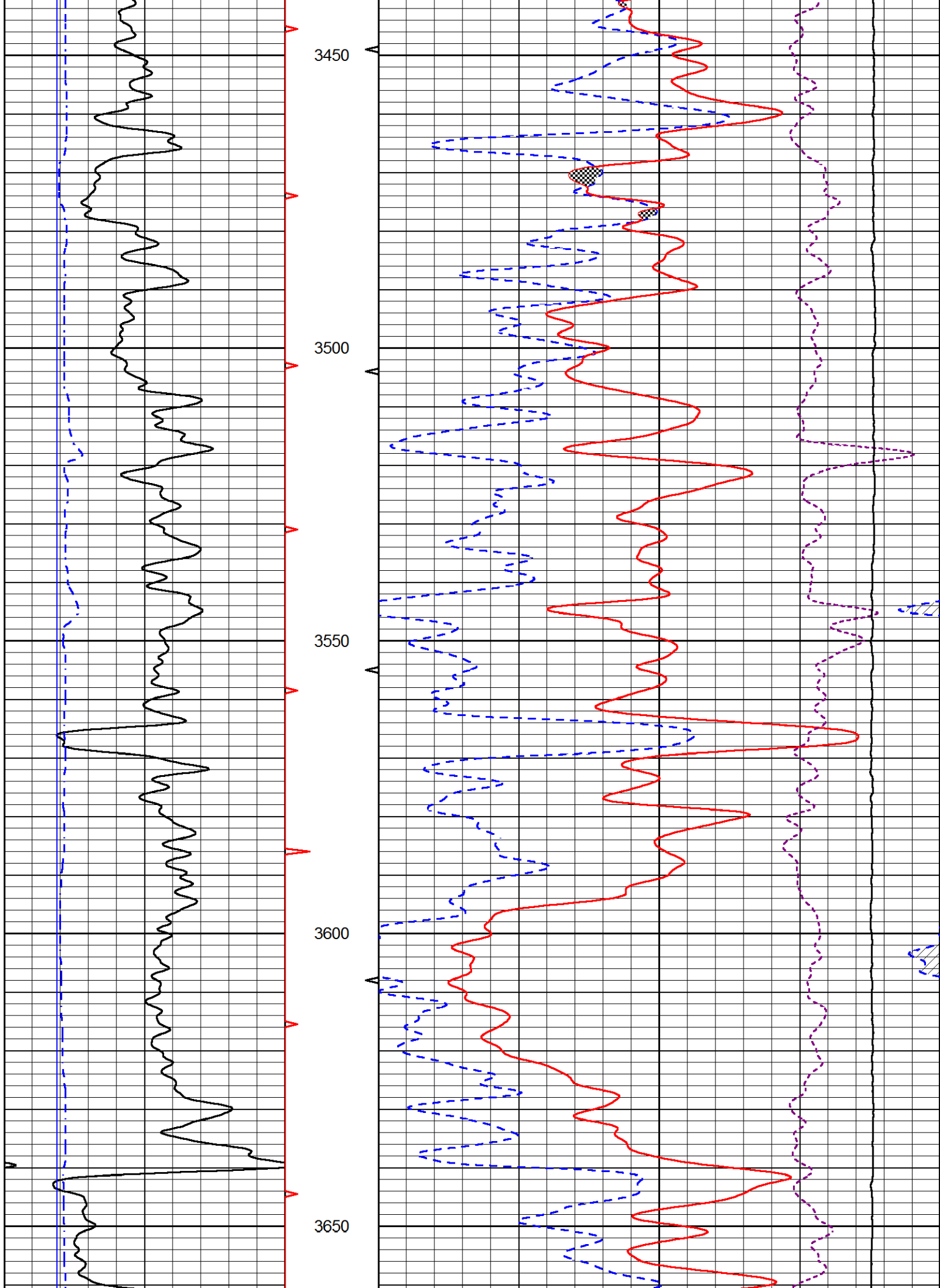


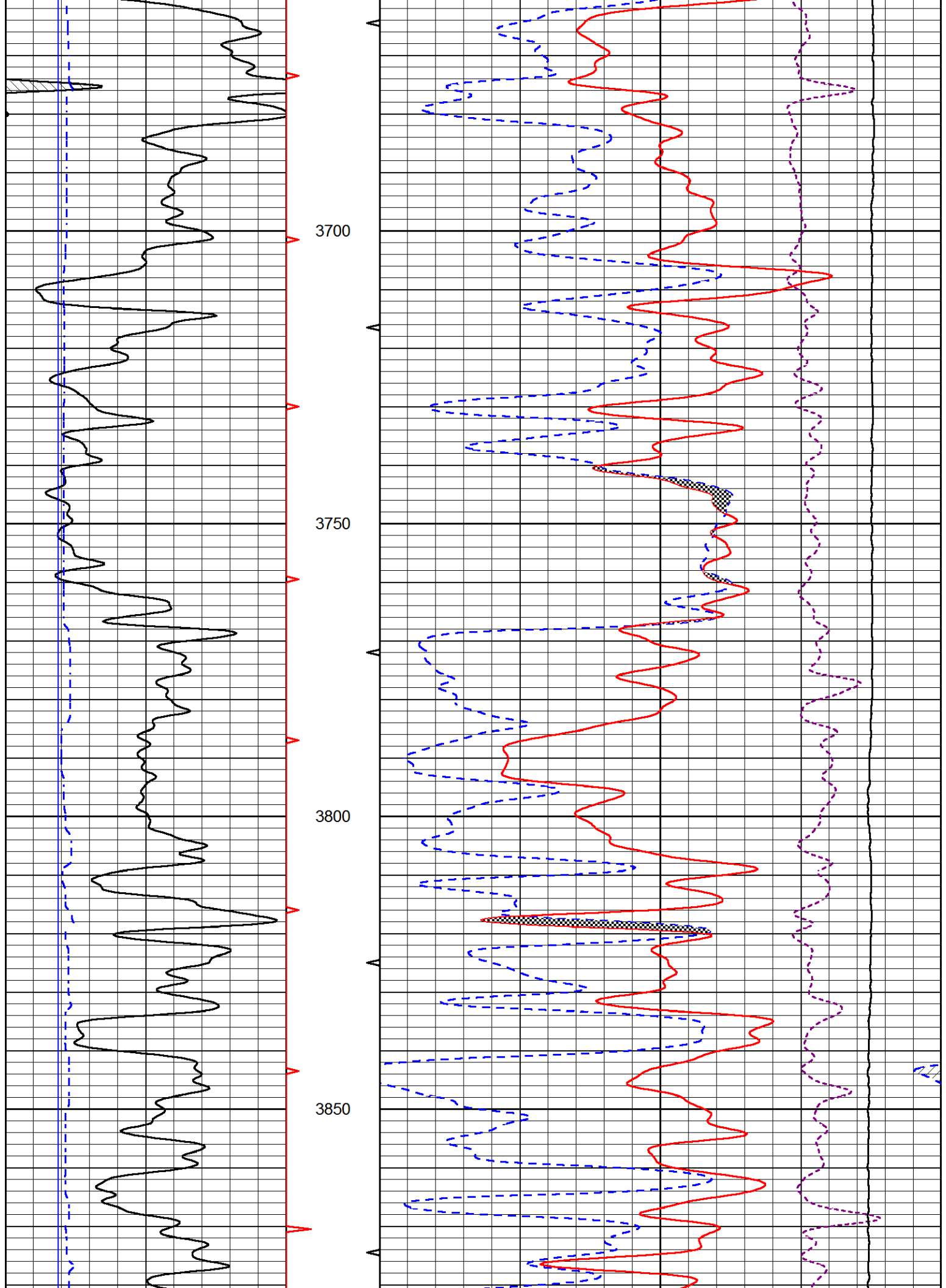


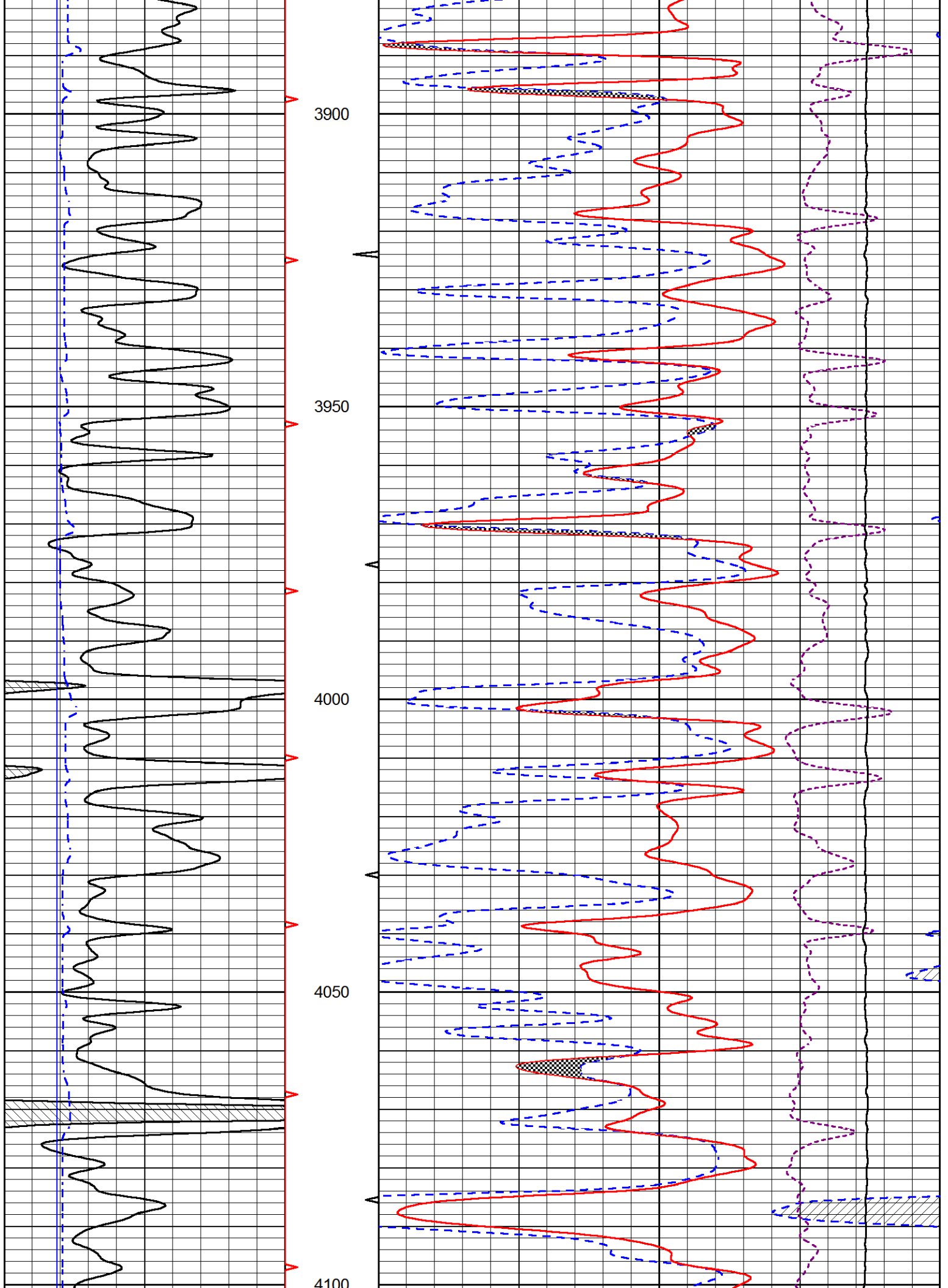


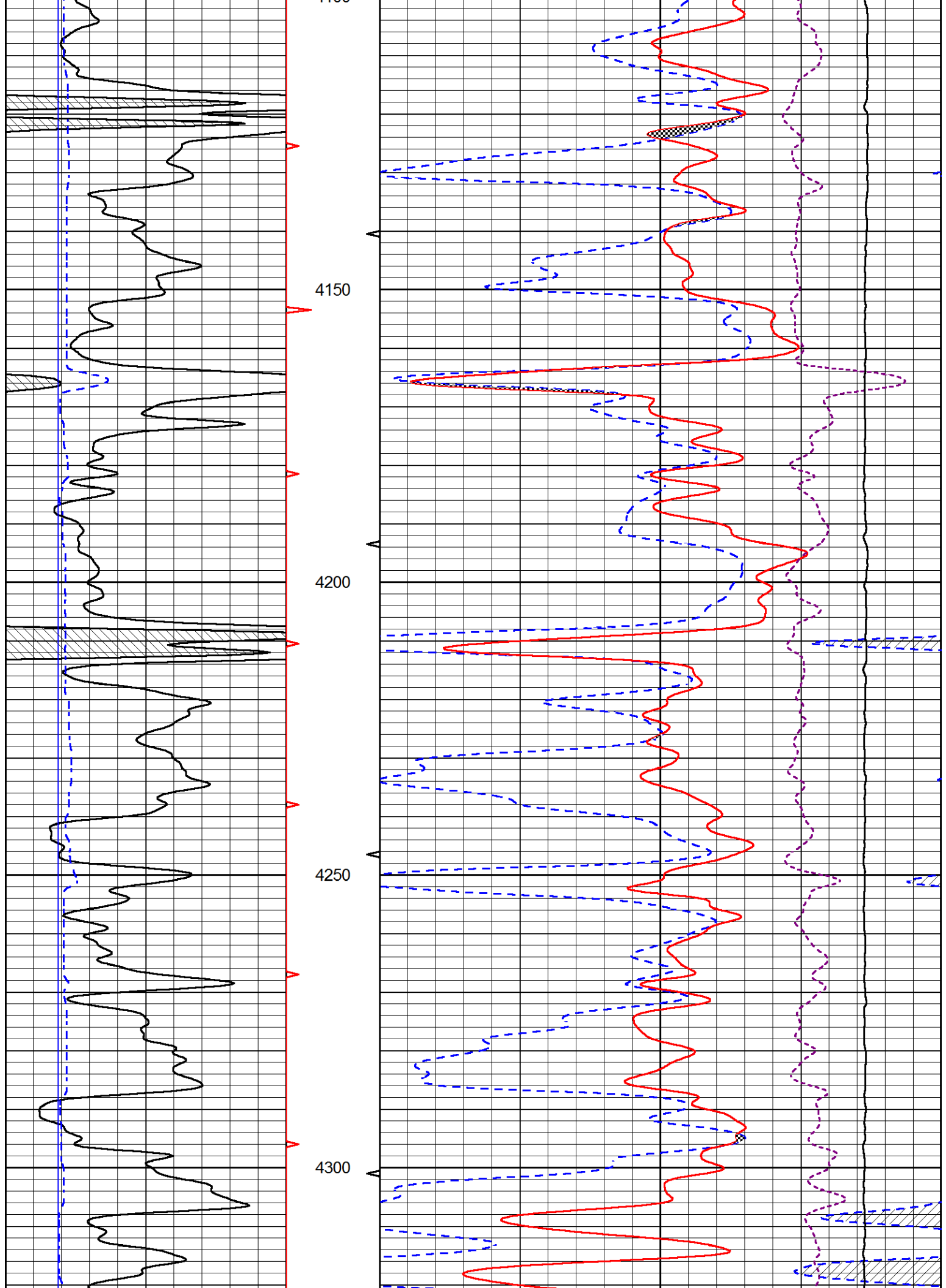


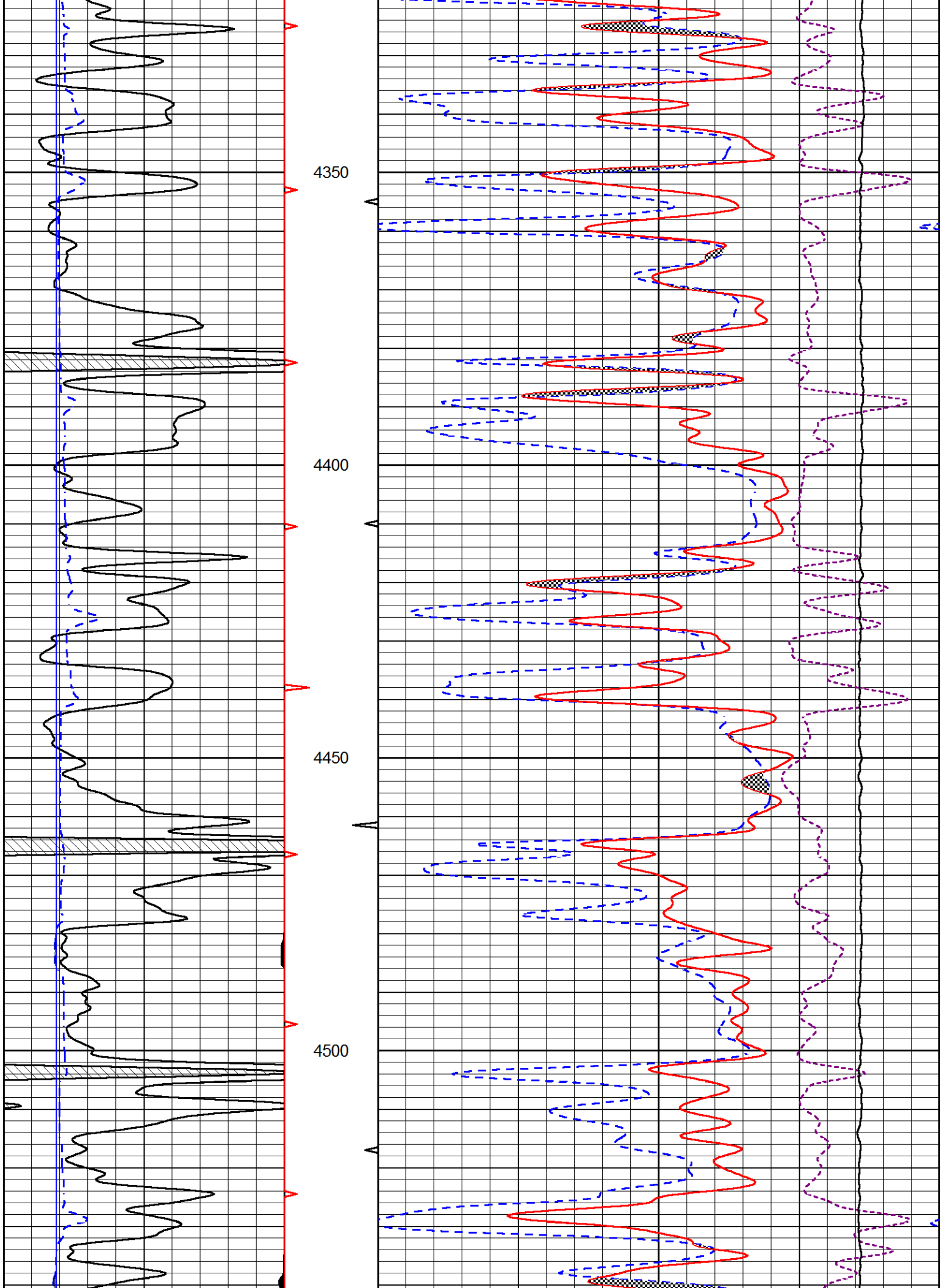


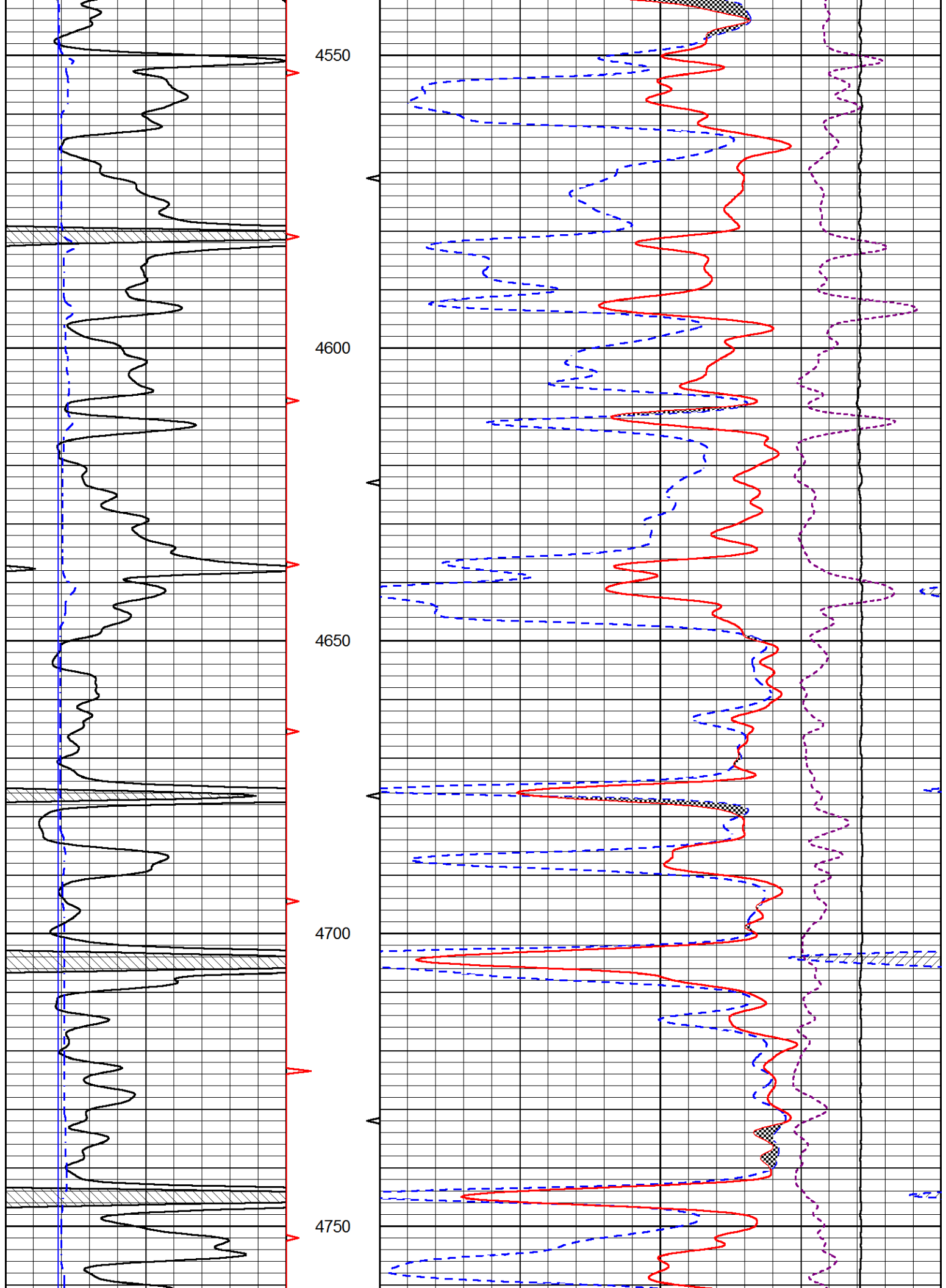


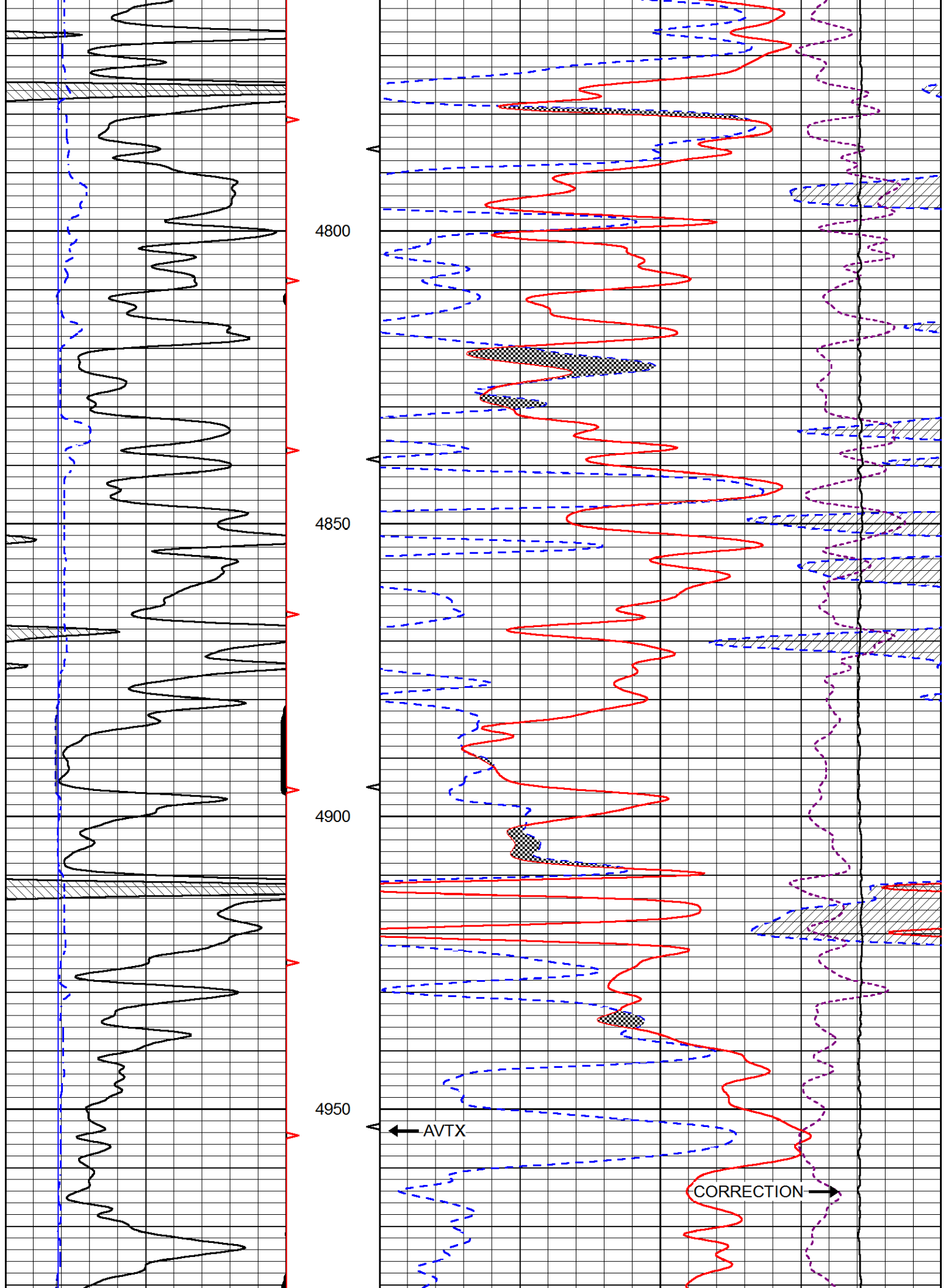


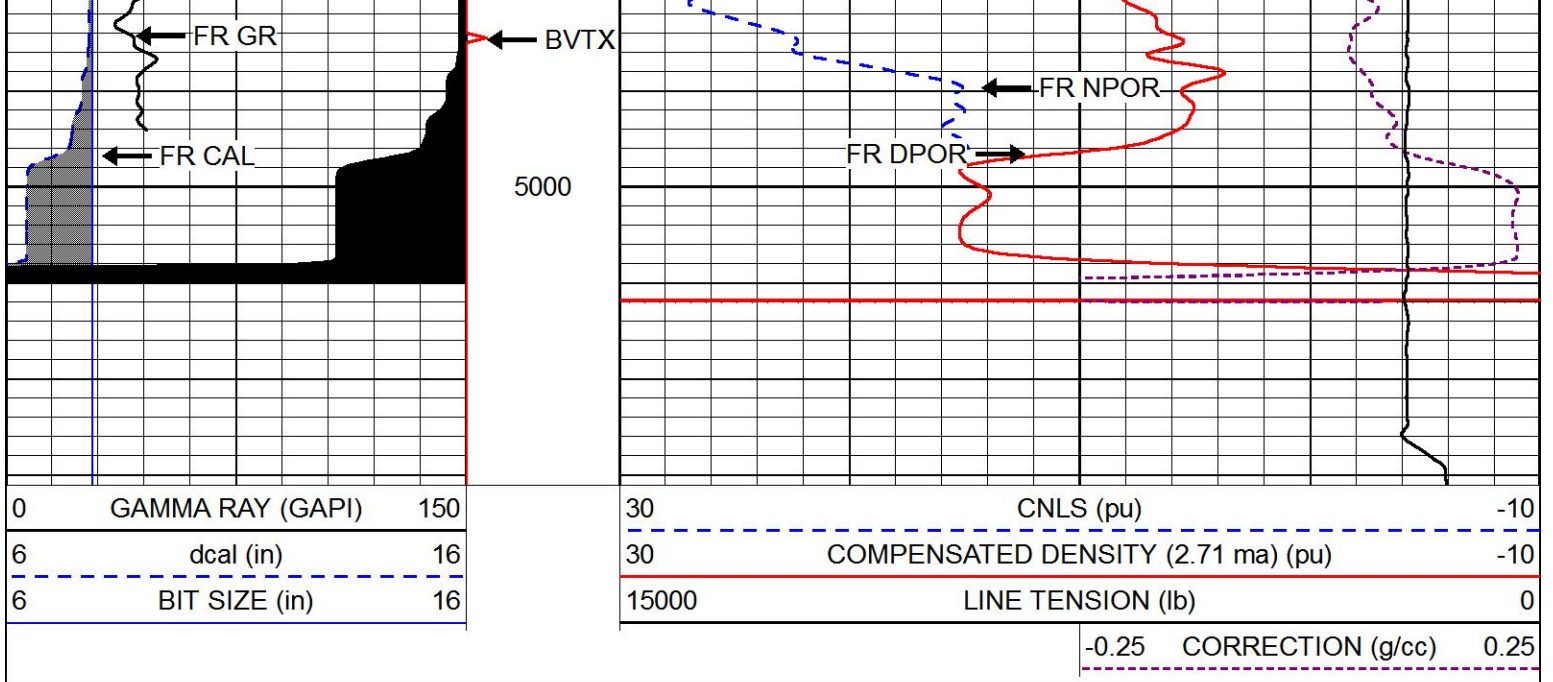






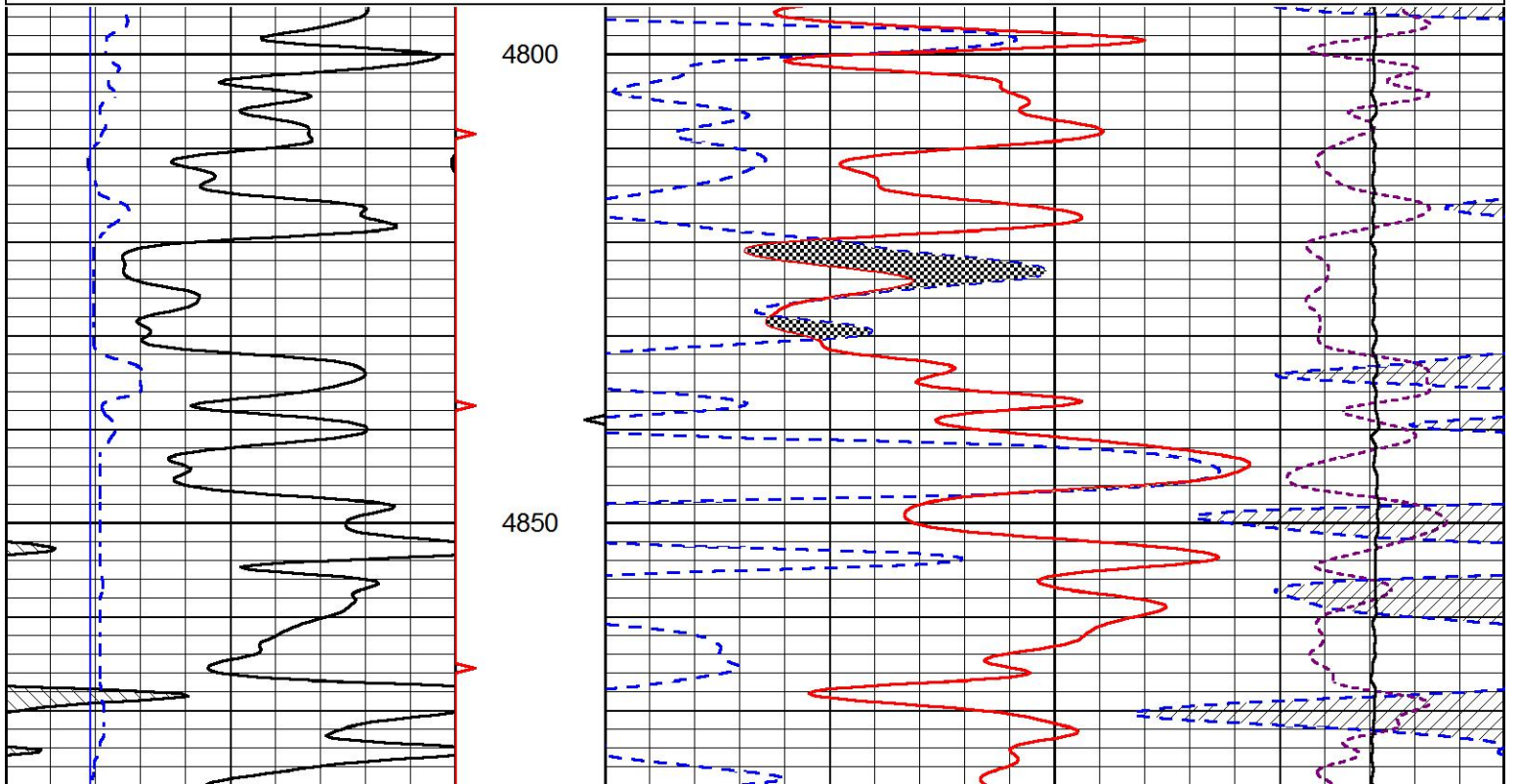
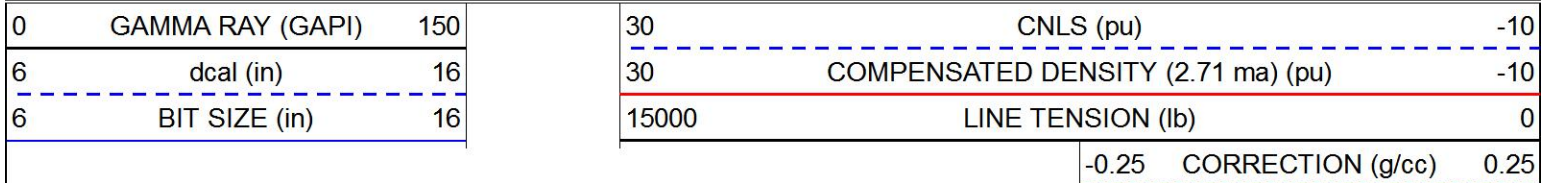


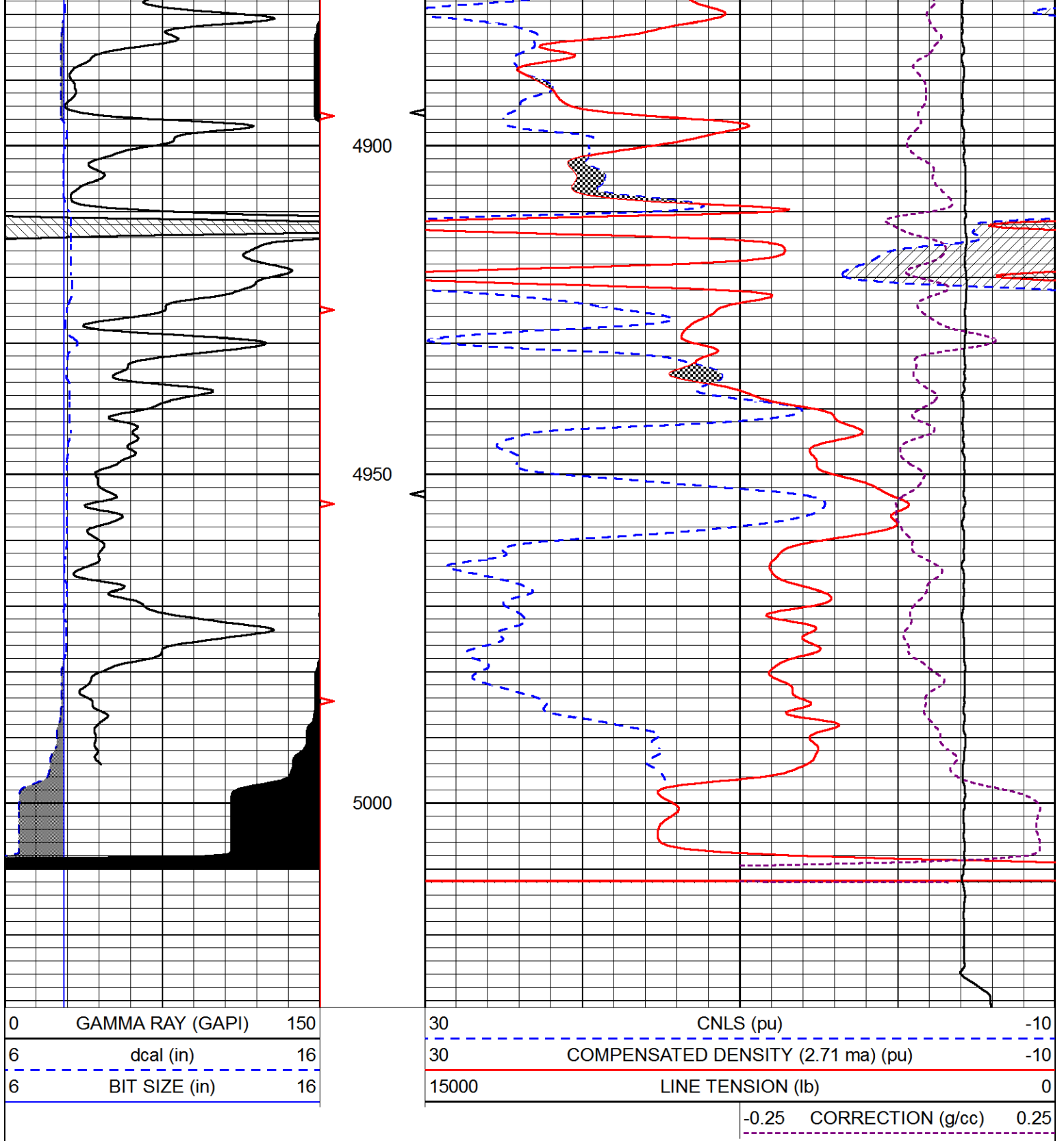




REPEAT SECTION

Database File gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname stackml/pass2.1
 Presentation Format cndlspec
 Dataset Creation Wed Apr 04 22:18:18 2018
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname stackml/pass3.1
 Dataset Creation Wed Apr 04 22:18:07 2018

Dual Induction Calibration Report

Serial-Model: PSI 978-M&W
 Calibration Performed: Sun Feb 04 11:50:02 2018

Readings

References

Results

Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-40.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.400	-37.000

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML
 Performed: Fri Jun 23 01:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	24000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	23000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.6000

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
 Source / Verifier: /
 Master Calibration Performed: Tue Apr 11 17:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.705	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.540		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
 Tool Model: M&W
 Calibration Performed: Wed Nov 16 11:21:36 2016

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: 89-M&W
 Tool Model: M&W
 Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 6.2 cps

Sensitivity: 0.5200 GAPI/cps



PIONEER

Pioneer Energy Services

Company	GULF EXPLORATION, LLC
Well	CARPENTER TRUST NO. 1-18
Field	WILDCAT
County	THOMAS
State	KANSAS



DUAL INDUCTION LOG

Company GULF EXPLORATION, LLC
Well CARPENTER TRUST NO. 1-18
Field WILDCAT
County THOMAS **State** KANSAS

Company GULF EXPLORATION, LLC
Well CARPENTER TRUST NO. 1-18
Field WILDCAT
County THOMAS
State KANSAS

Location: API #: 15-193-21014-00-00
 1185' FSL & 700' FWL
 SEC 18 TWP 7S RGE 36W
Permanent Datum GROUND LEVEL Elevation 3364'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING
Other Services CNL/CDL MEL/BHCS
Elevation K.B. 3369' D.F. N/A G.L. 3364'

Date	4/4/2018
Run Number	ONE
Depth Driller	5025'
Depth Logger	5026'
Bottom Logged Interval	5025'
Top Log Interval	300'
Casing Driller	8.625" @ 303'
Casing Logger	300'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2900
Density / Viscosity	9.2 57
pH / Fluid Loss	9.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.85 @ 67
Rmt @ Meas. Temp	.64 @ 67
Rmc @ Meas. Temp	1.15 @ 67
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.45 @ 126
Operating Rig Time	5 HOURS
Max Rec. Temp. F	126 DEGF
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	KEITH REAVIS

<<< 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.

BREWSTER KANSAS
NORTH TO V ROAD, 1 WEST, NORTH INTO

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

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

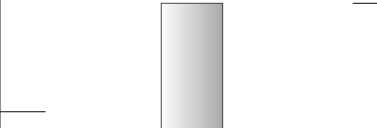
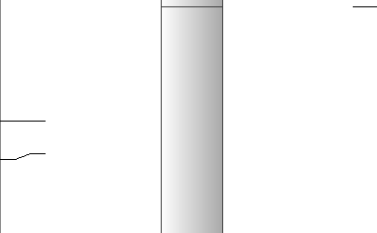
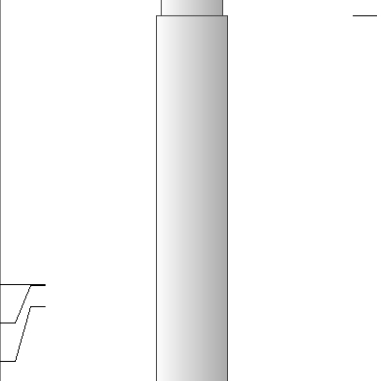
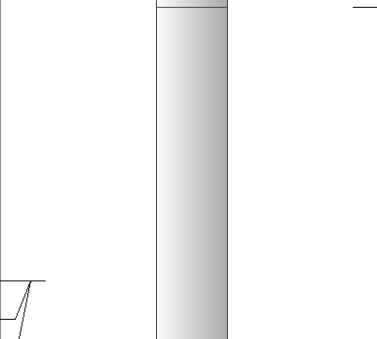
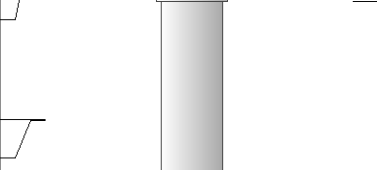
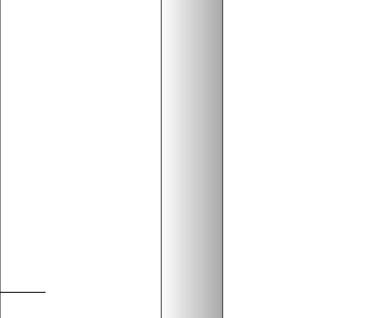
Your Pioneer Energy Services Crew Engineer: J. HENRICKSON Operator: Operator: Operator:	This Log Record Was Witnessed By Primary Witness: KEITH REAVIS Secondary Witness: Secondary Witness: Secondary Witness:
--	--

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gulf_exploration_carpenier_trust_1_18.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	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	3	-255	57	Off	5026

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3 RLL3F	15.80 15.79					
CILD	8.00		DIL-M&W (PSI 978)	18.50	3.50	220.00

CILM 4.70

SP 0.20

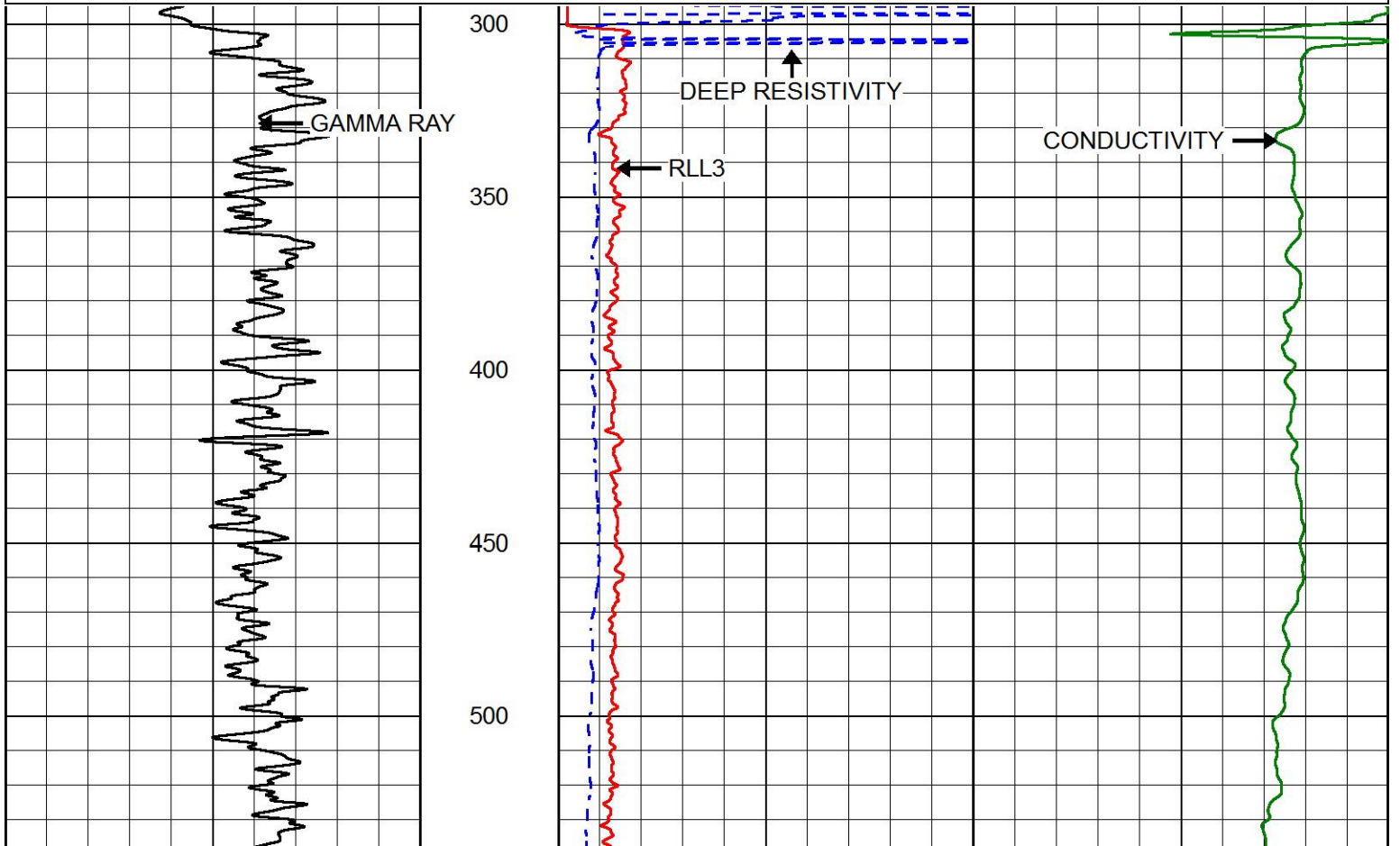
Dataset: gulf_exploration_carpenter_trust_1_18.db: field/well/stackml/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

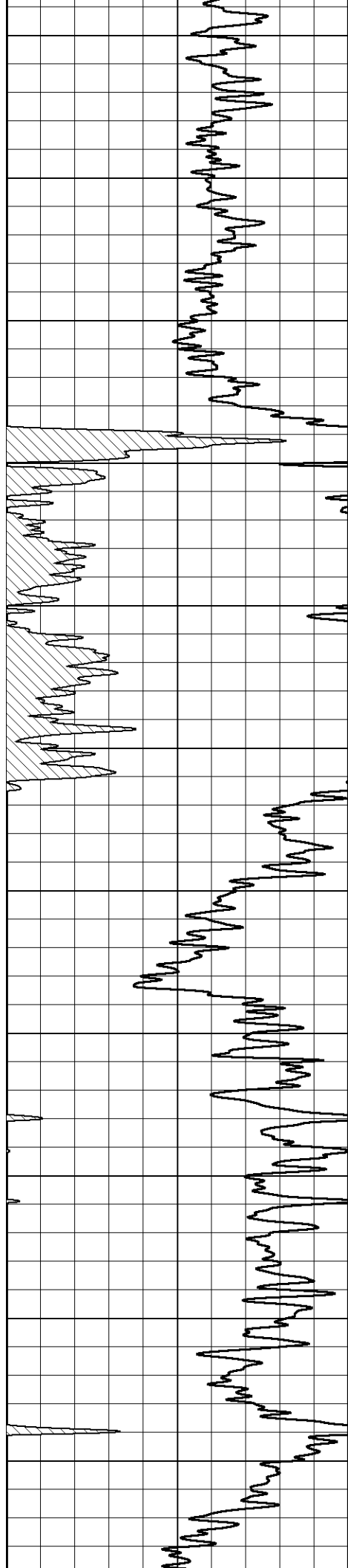


MAIN PASS

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 Dataset Pathname stackml/pass3.1
 Presentation Format dil2in
 Dataset Creation Wed Apr 04 22:18:07 2018
 Charted by Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150	2000	CONDUCTIVITY (mmho/m)	0
			0	RLL3 (Ohm-m)	50
			0	DEEP RESISTIVITY (Ohm-m)	50
			50	RLL3 (Ohm-m)	500
				DEEP RESISTIVITY	
			50	(Ohm-m)	500





550

600

650

700

750

800

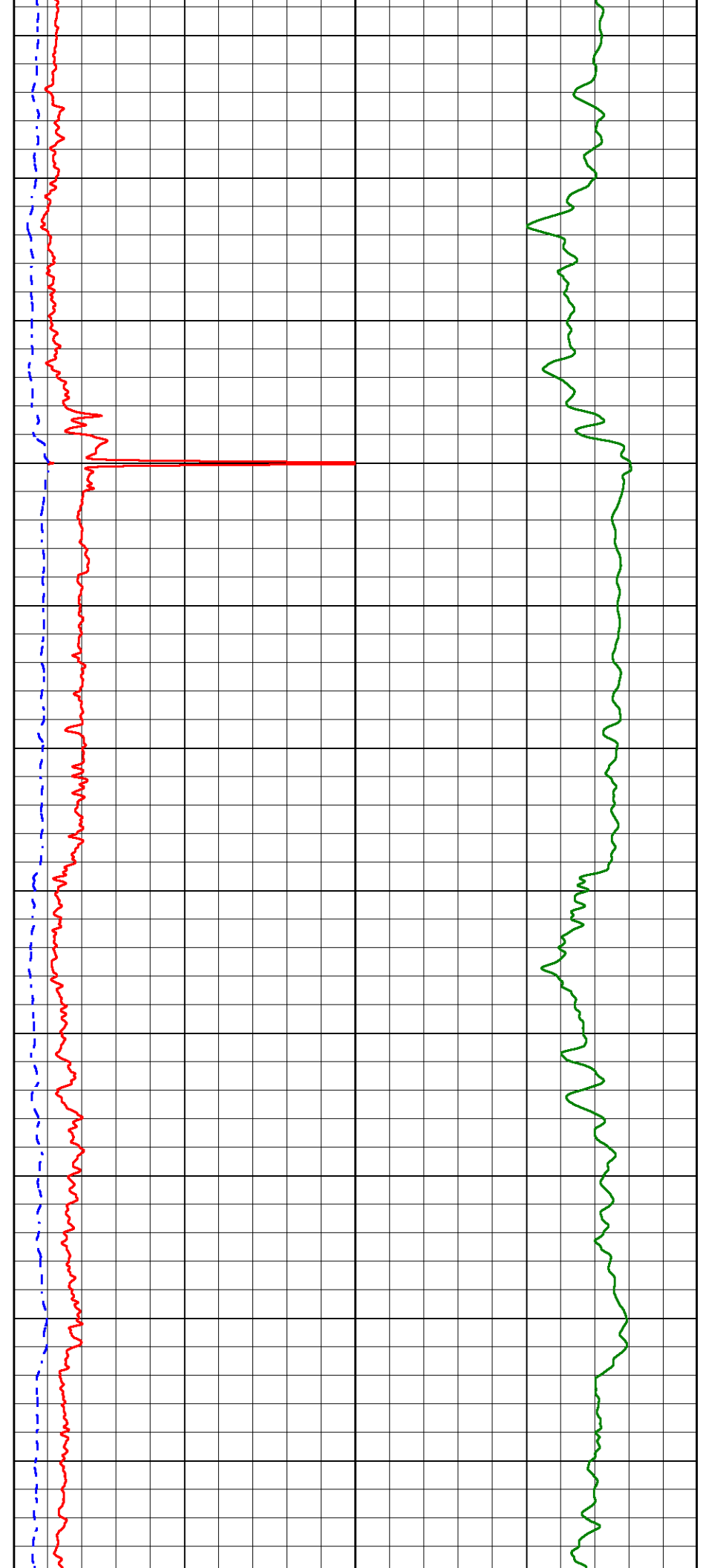
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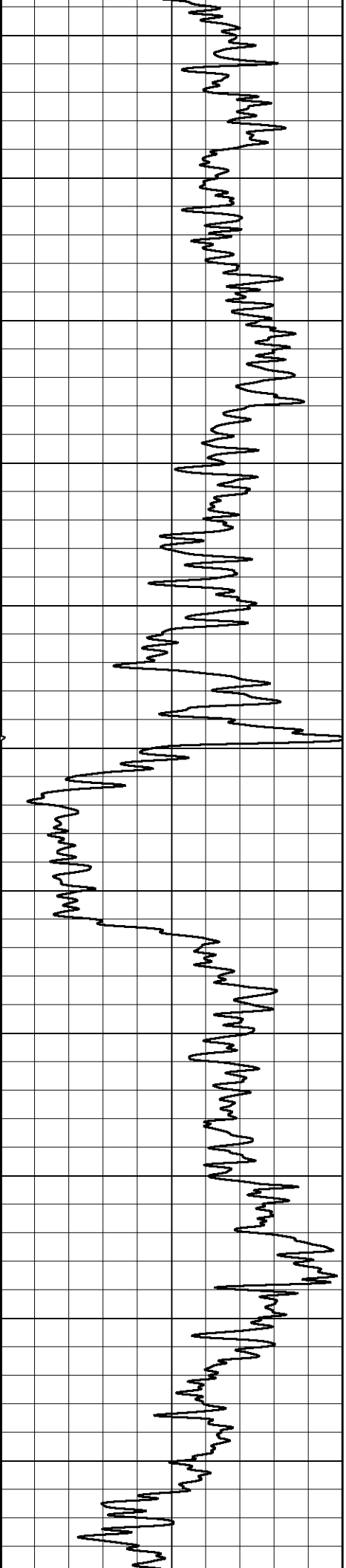
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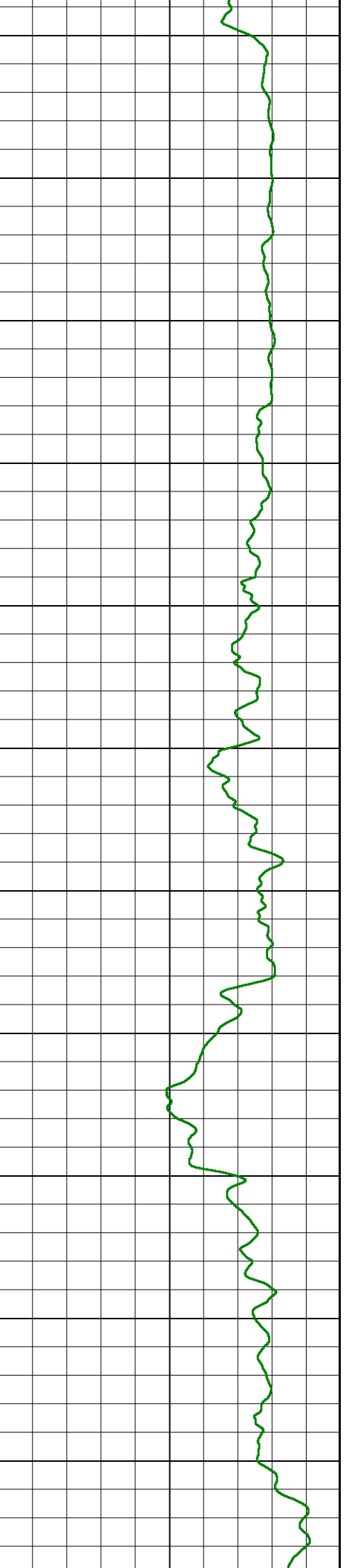
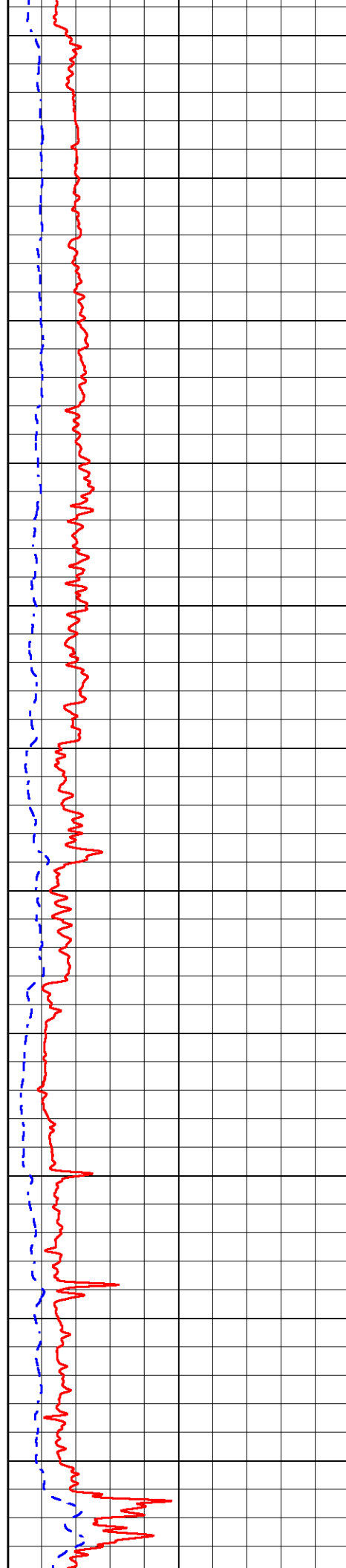
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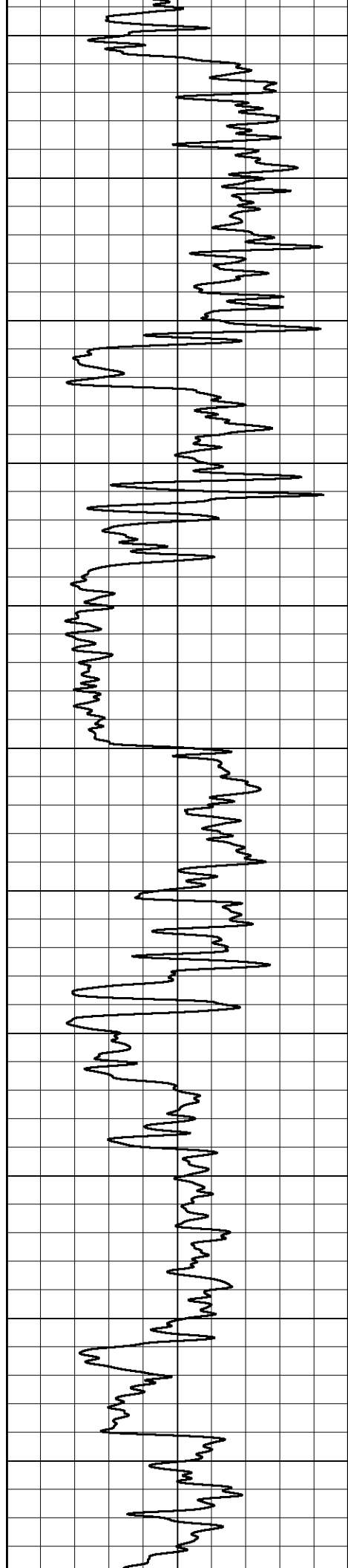
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1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600





1650

1700

1750

1800

1850

1900

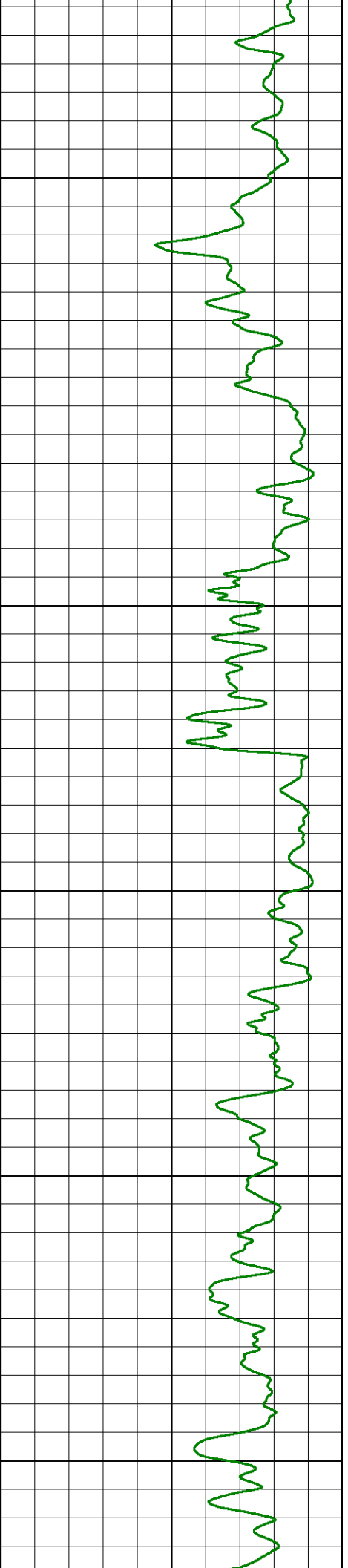
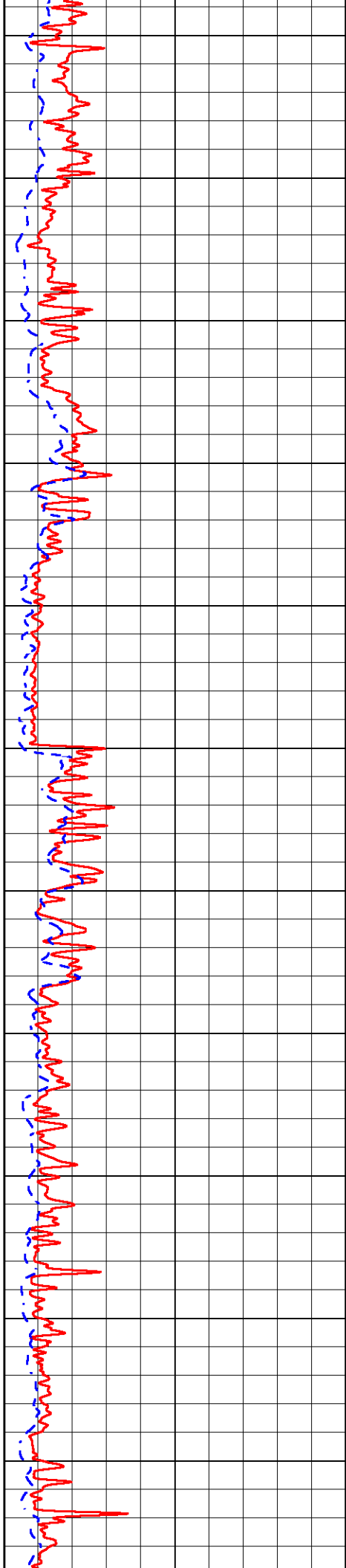
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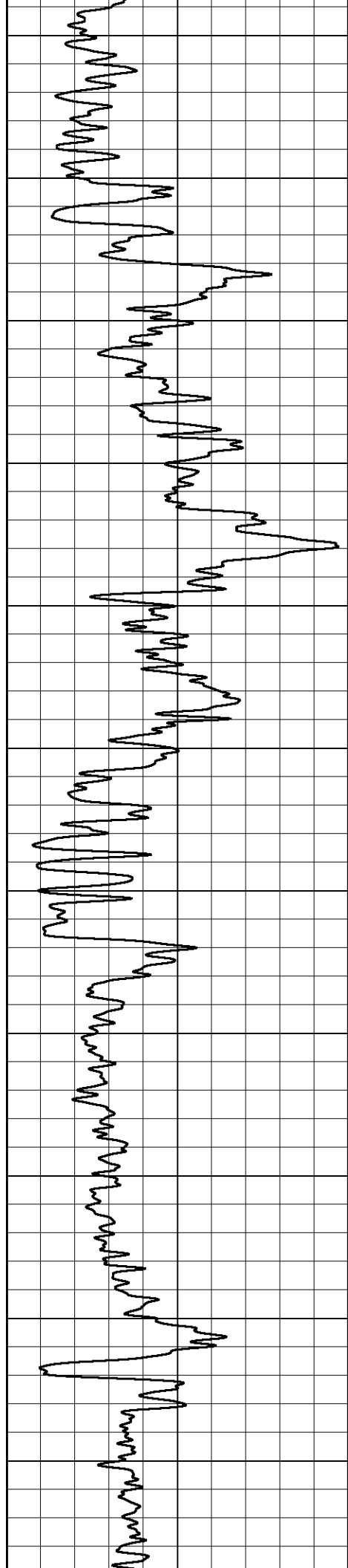
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2050

2100

2150





2200

2250

2300

2350

2400

2450

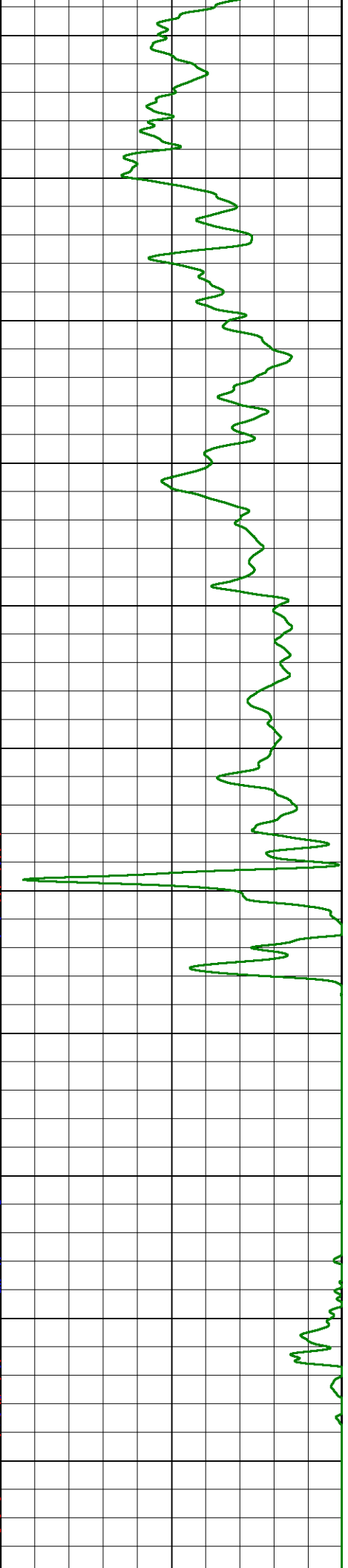
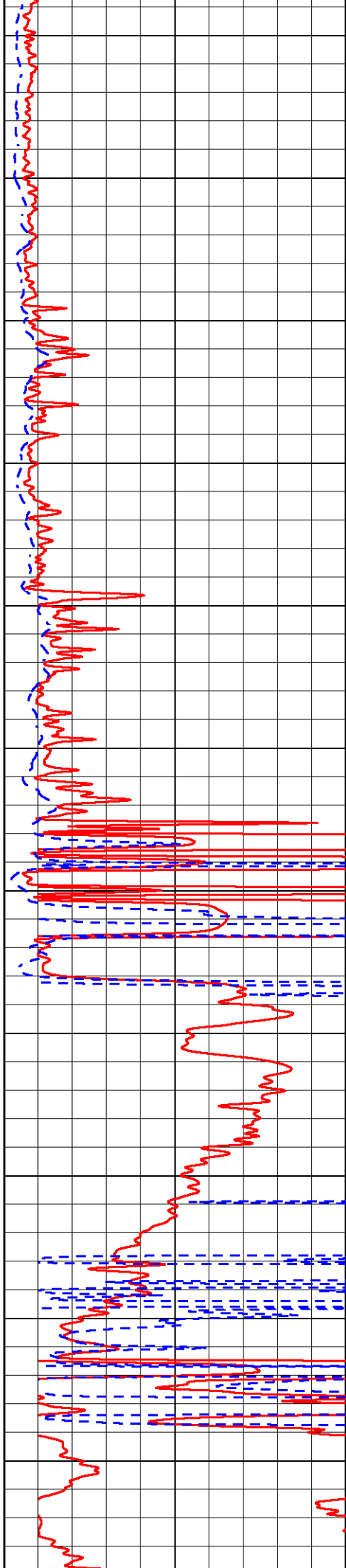
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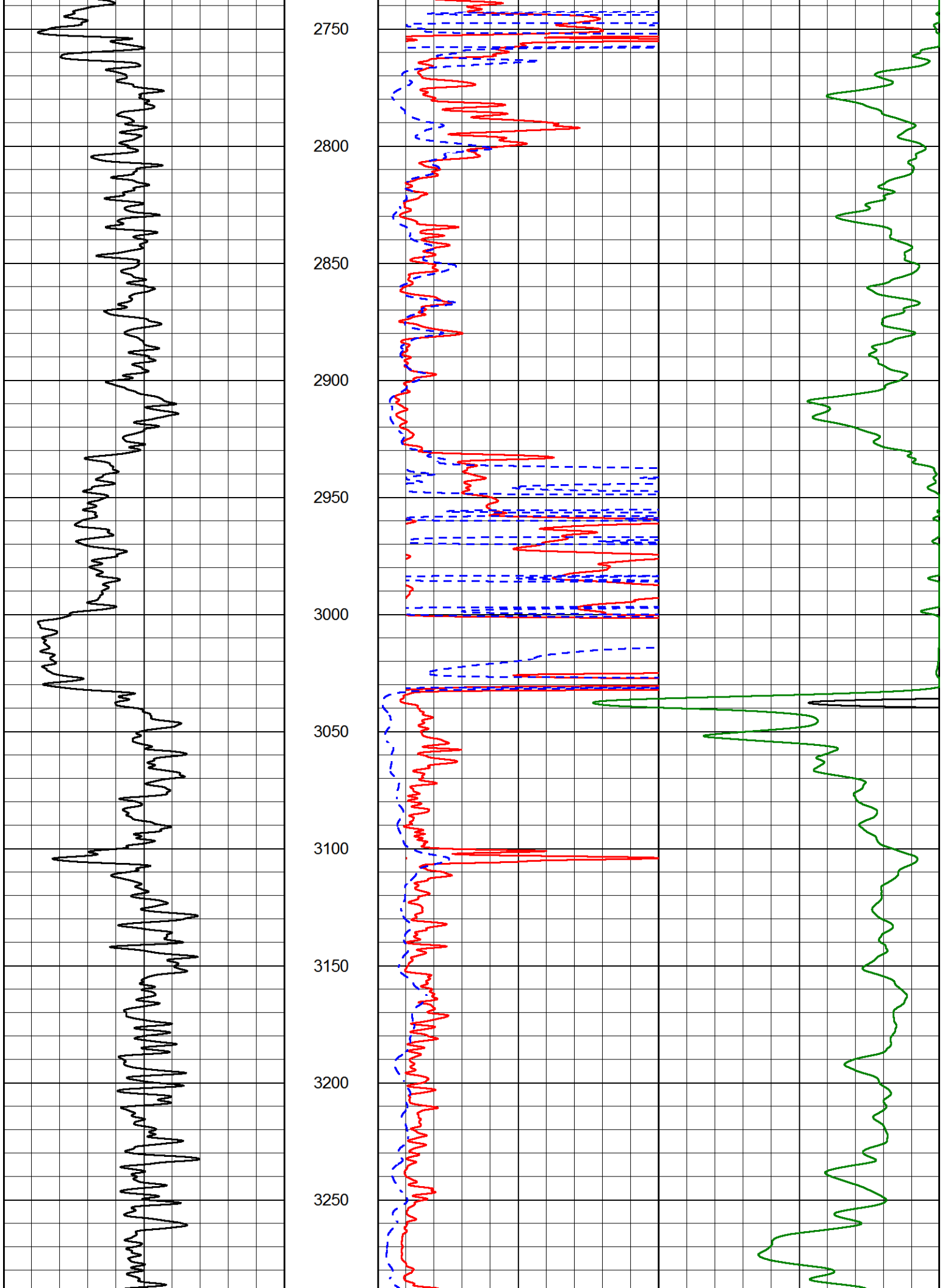
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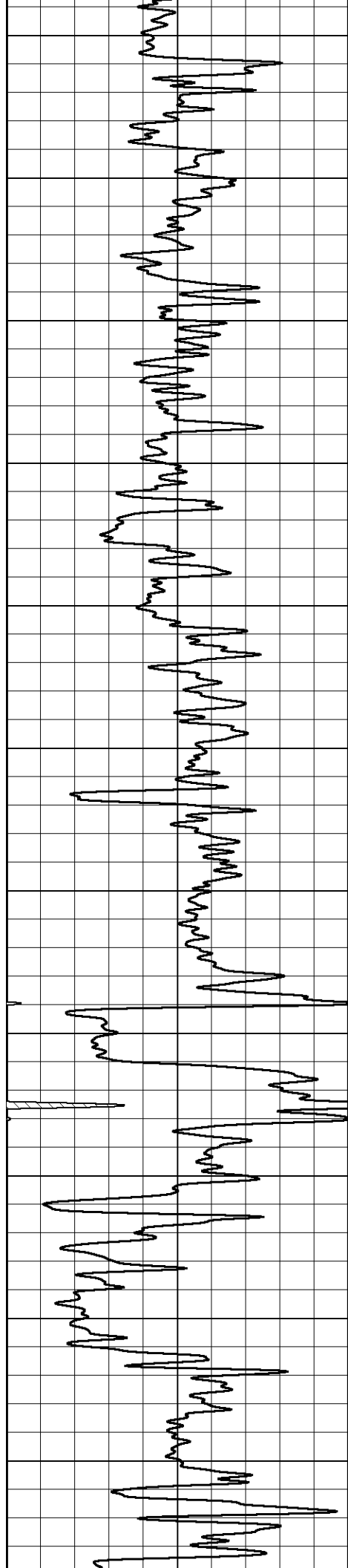
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3300

3350

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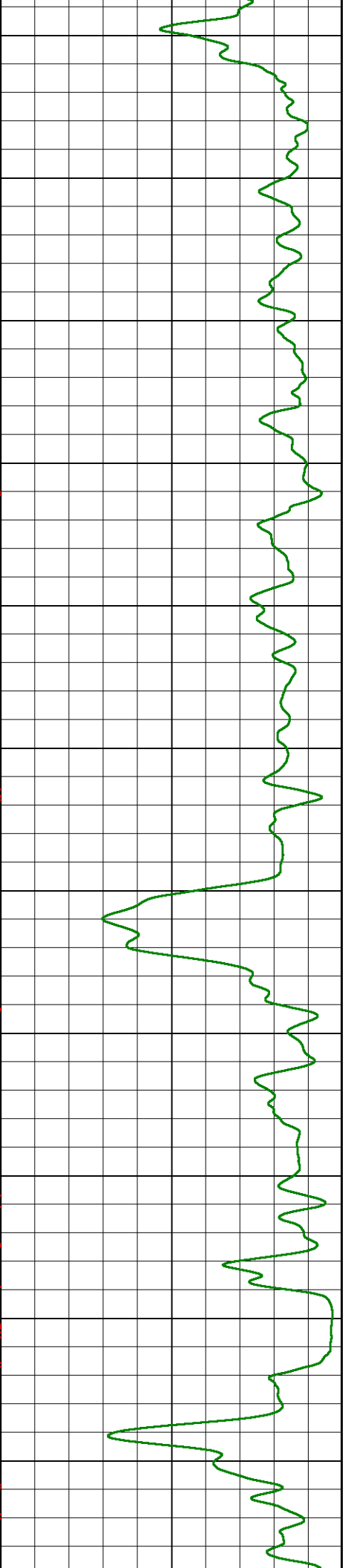
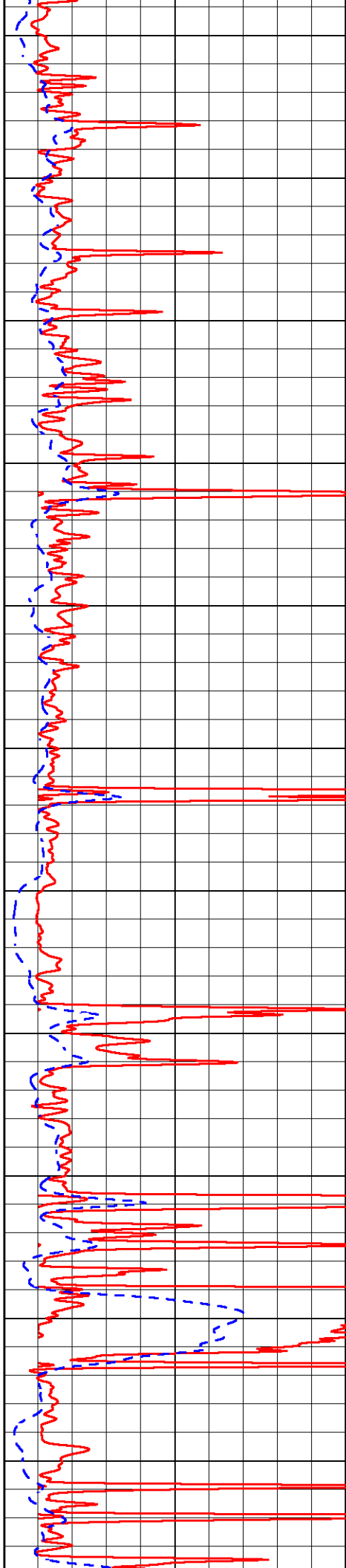
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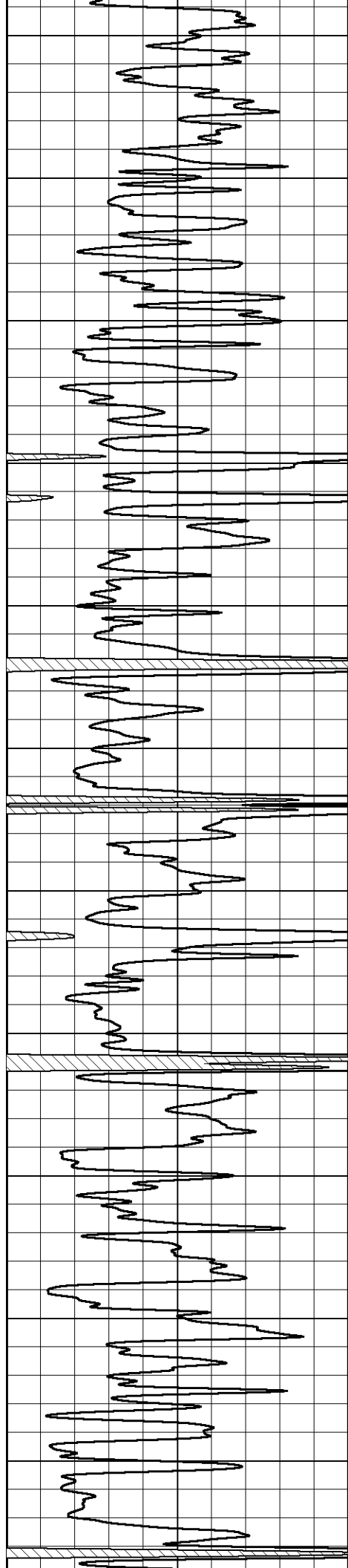
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3800





3850

3900

3950

4000

4050

4100

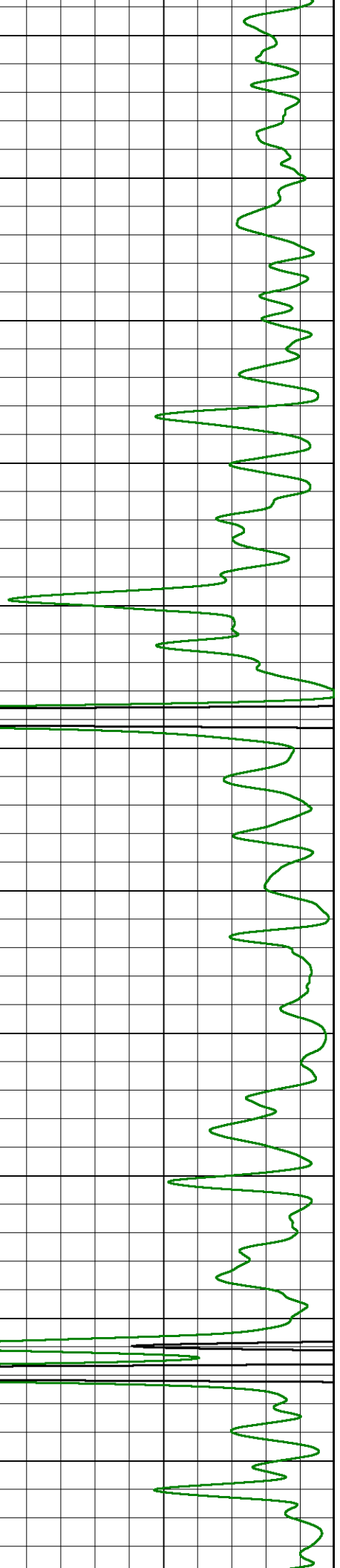
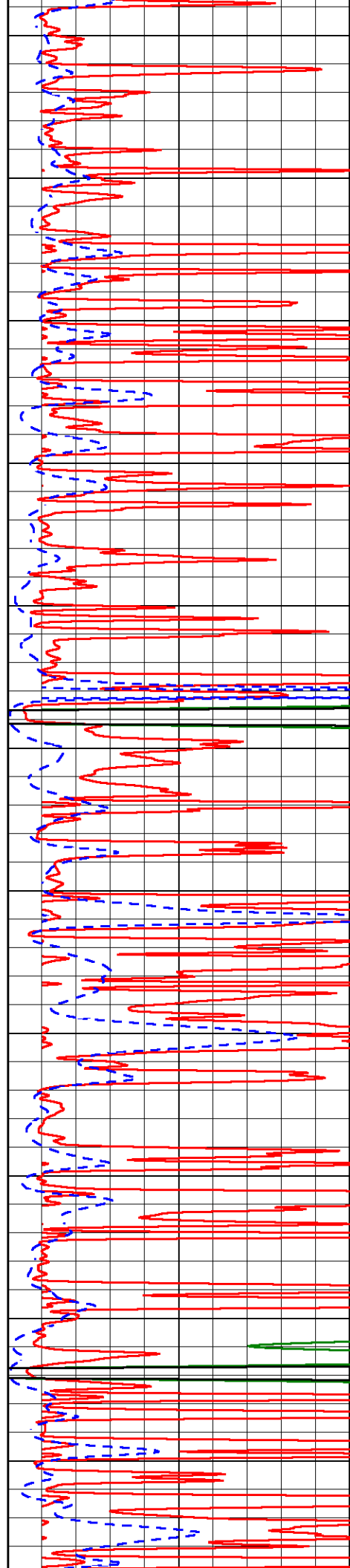
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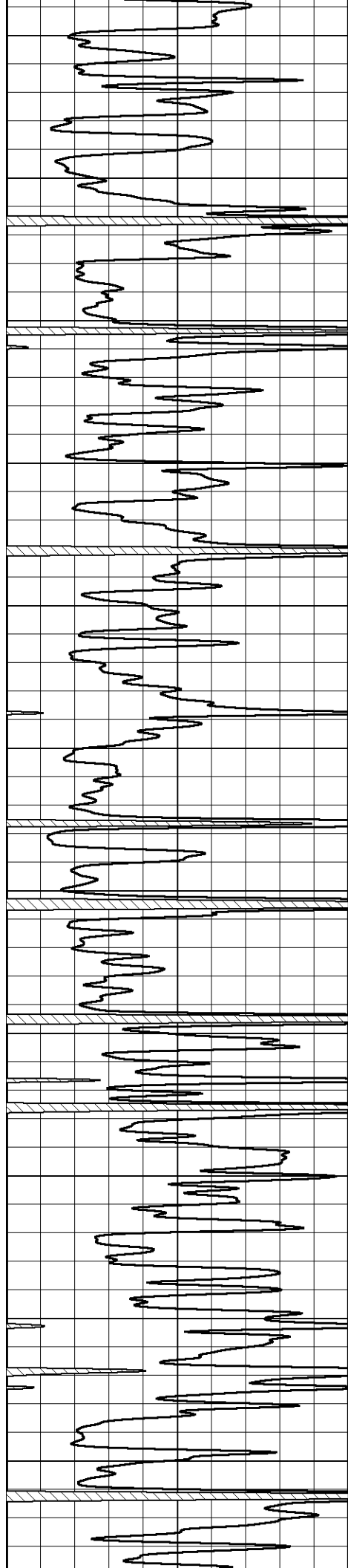
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4300

4350





4400

4450

4500

4550

4600

4650

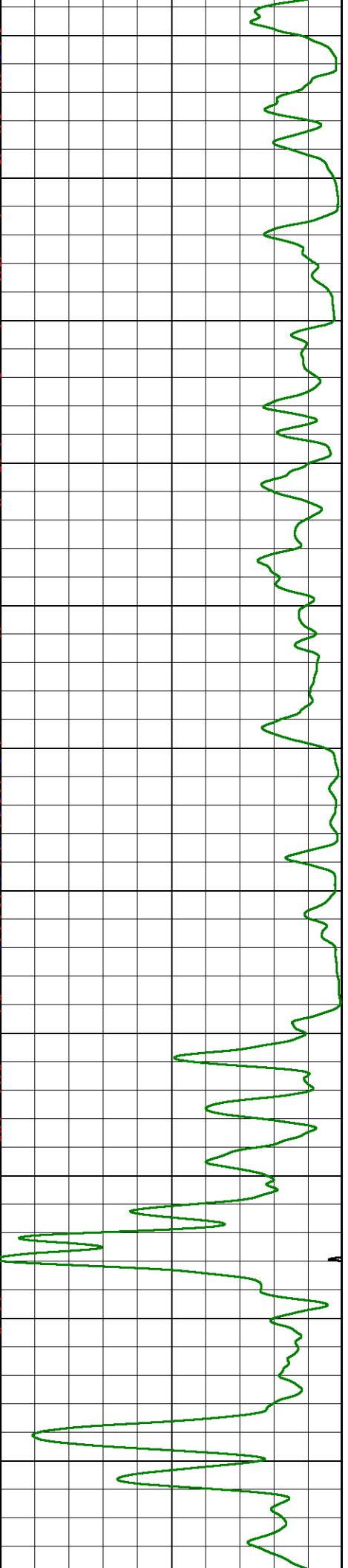
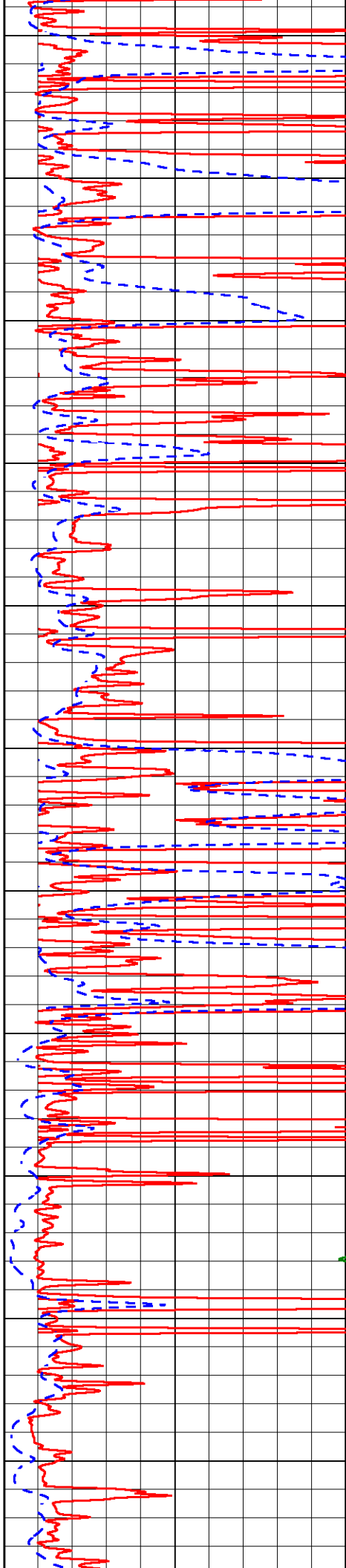
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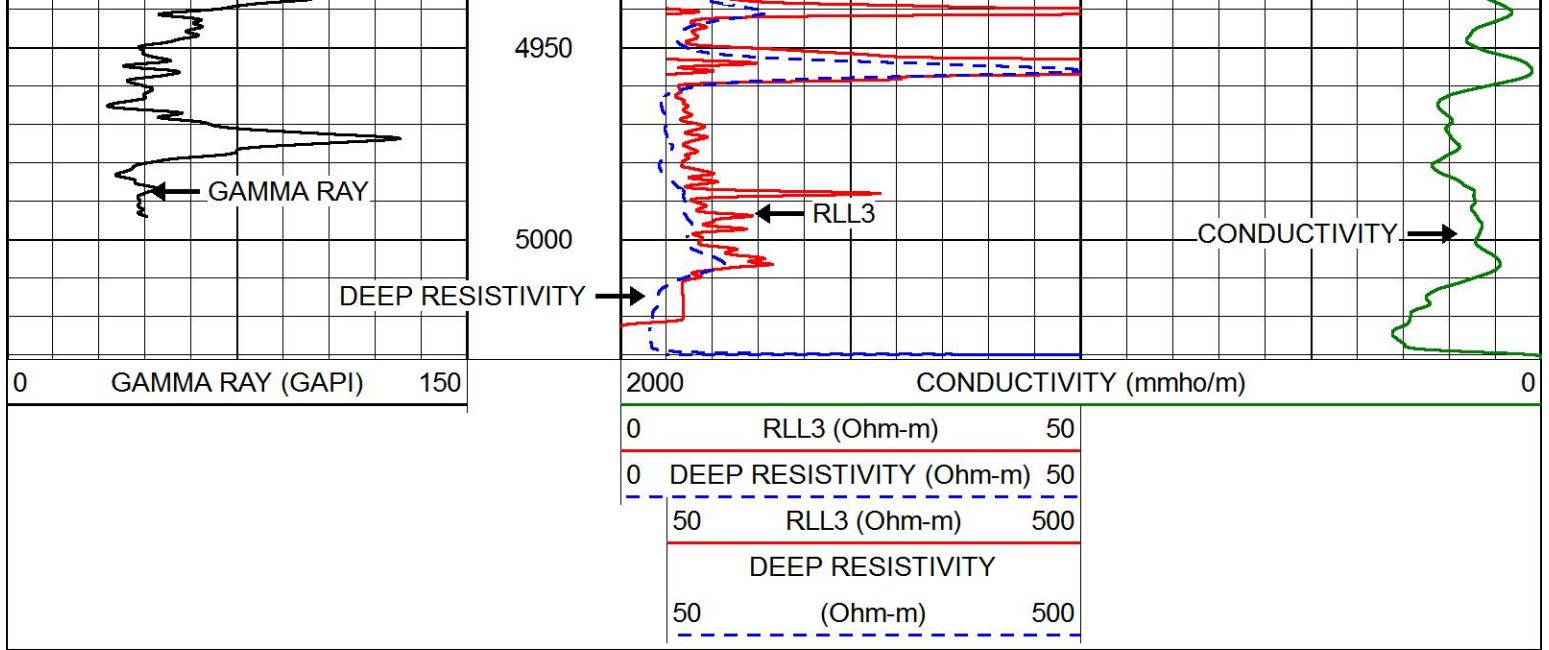
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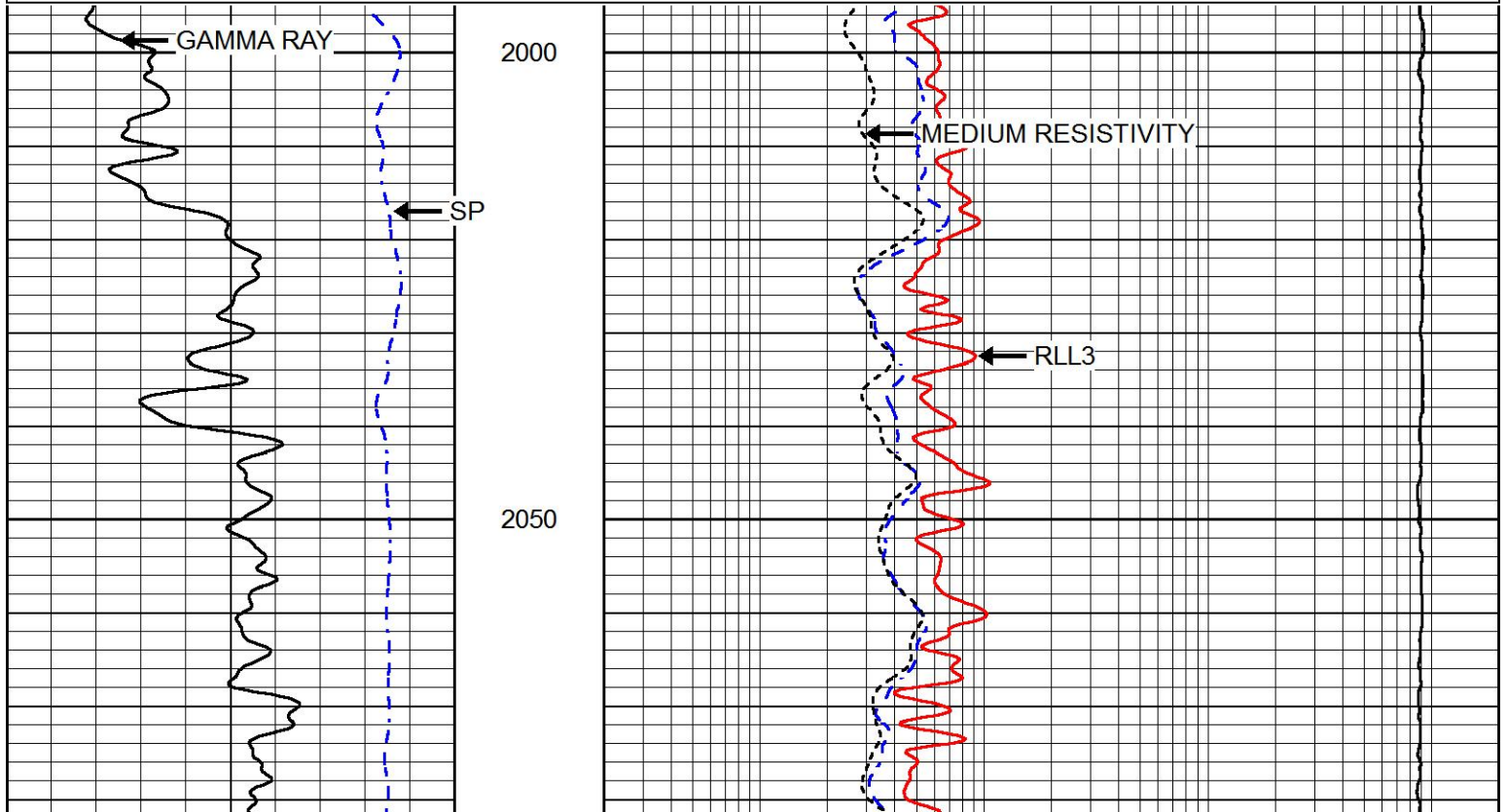


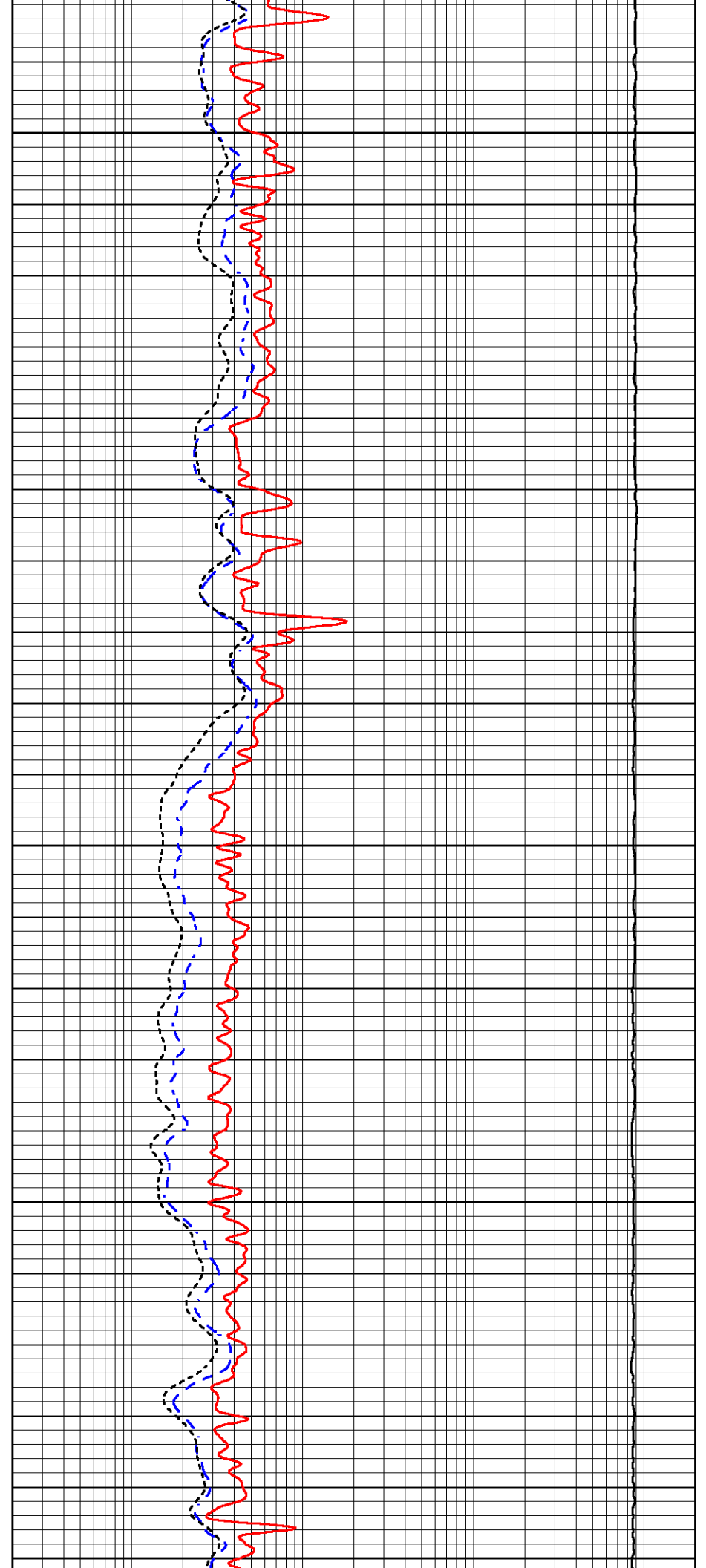
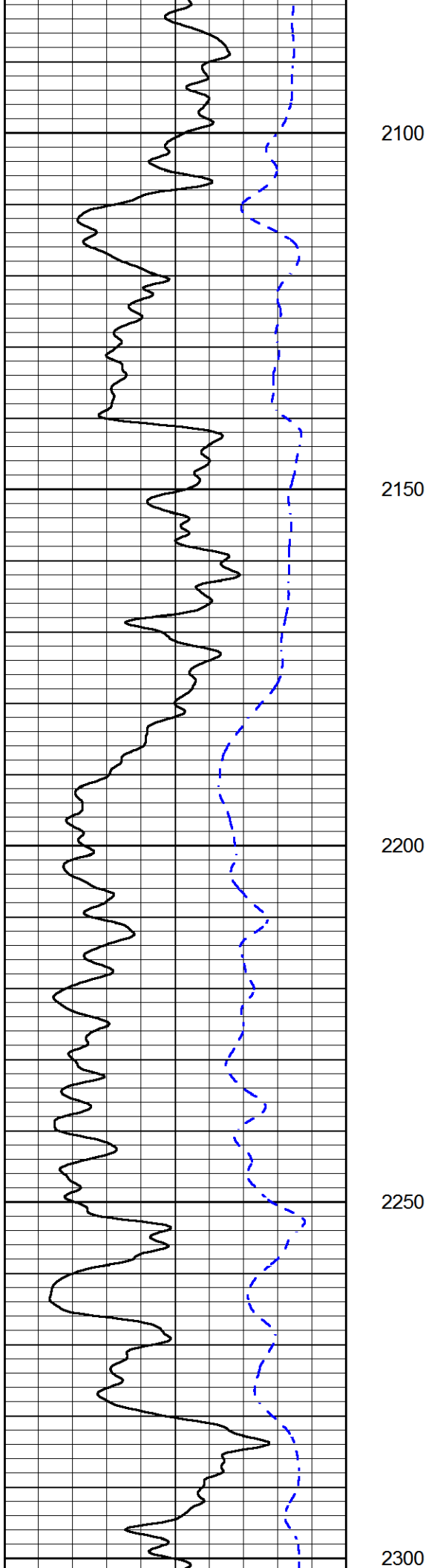


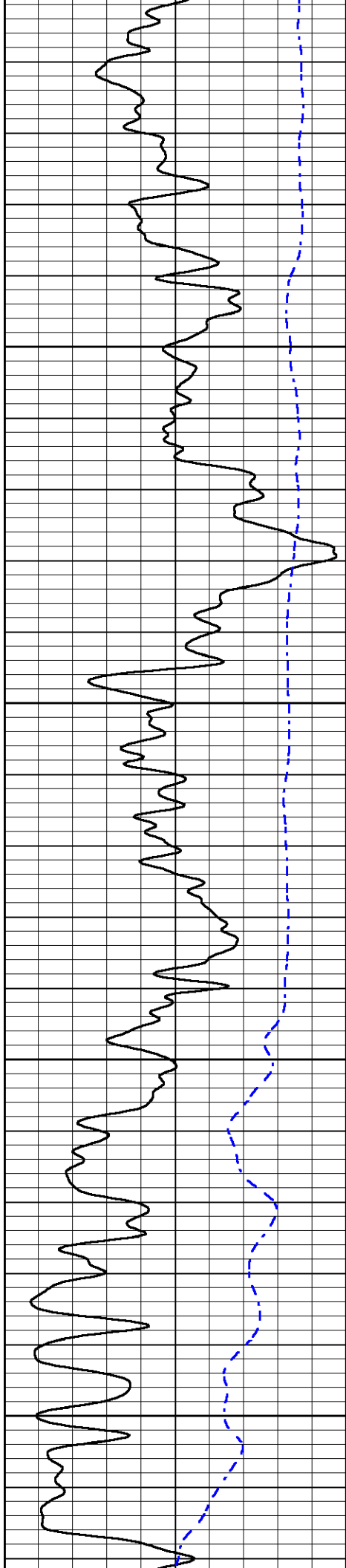

MAIN PASS

Database File: gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname: stackml/pass3.1
 Presentation Format: dil
 Dataset Creation: Wed Apr 04 22:18:07 2018
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	DEEP RESISTIVITY (Ohm-m)	2000
-200	SP (mV)	0	0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
			0.2	RLL3 (Ohm-m)	2000
			15000	LINE TENSION (lb)	0





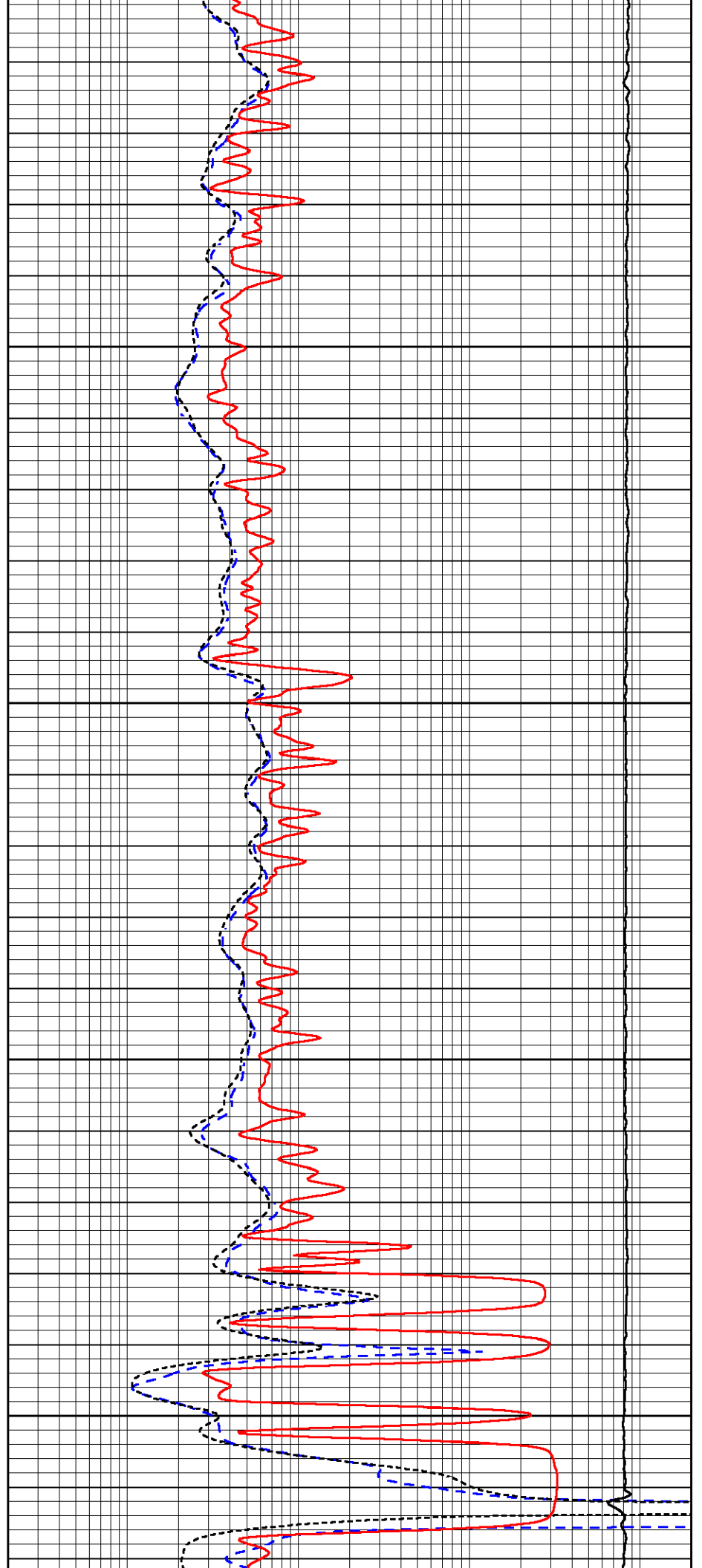


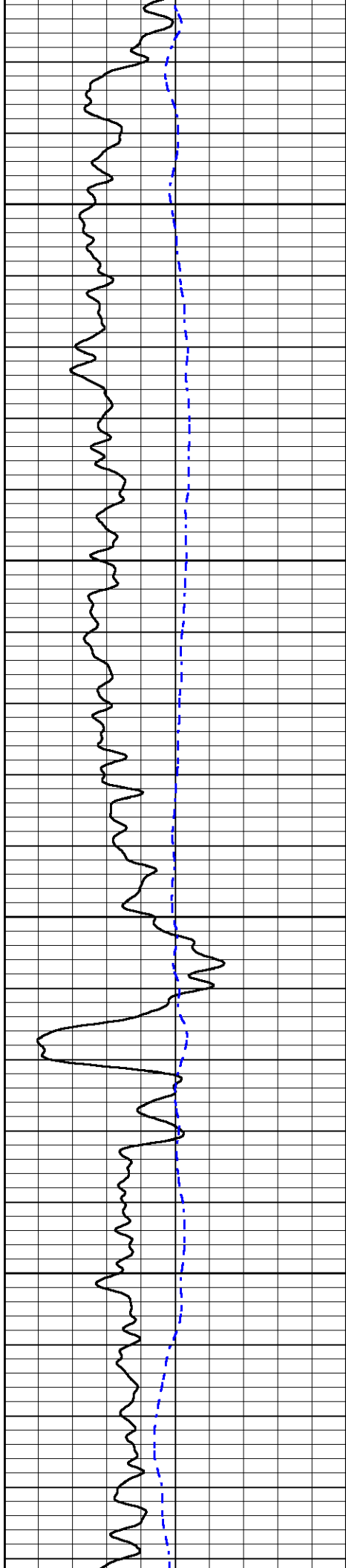
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2400

2450

2500



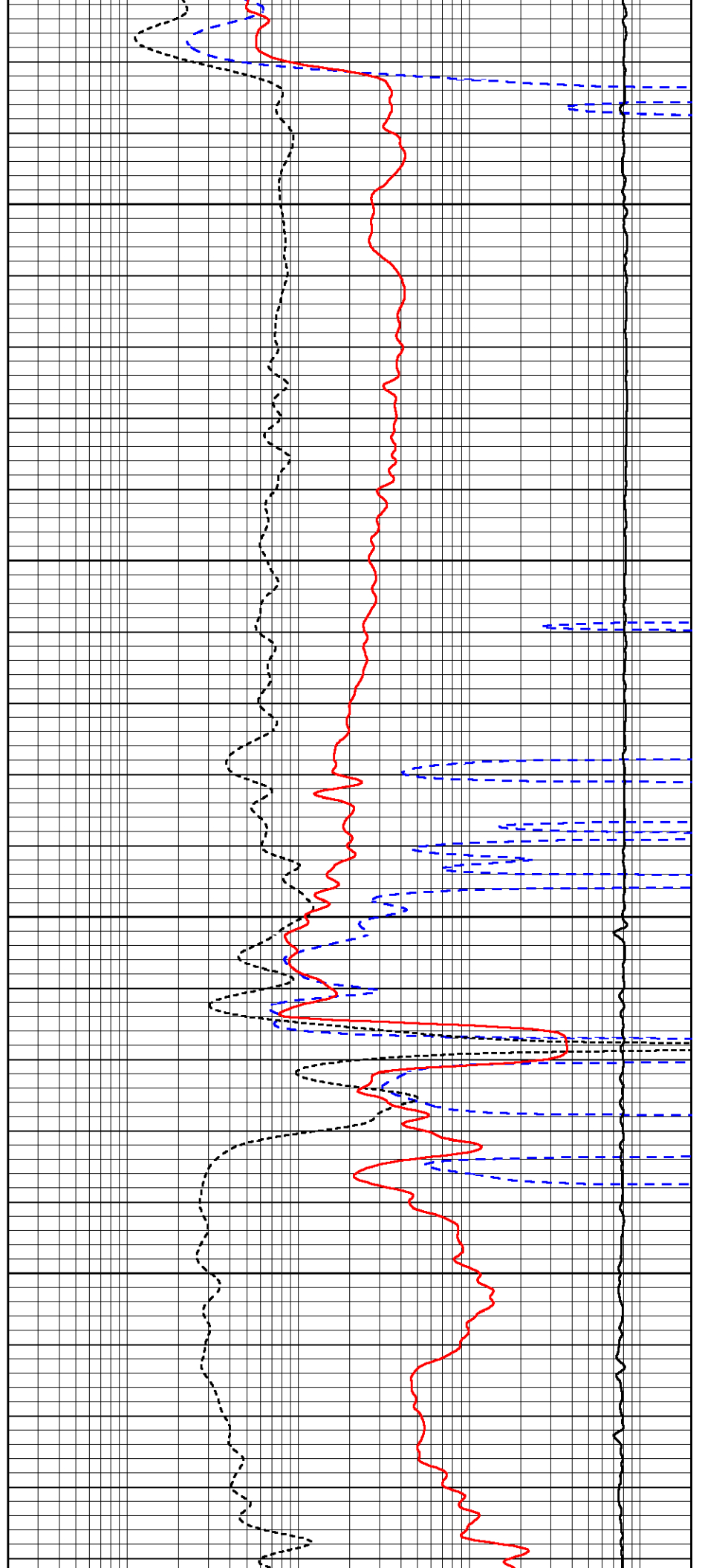


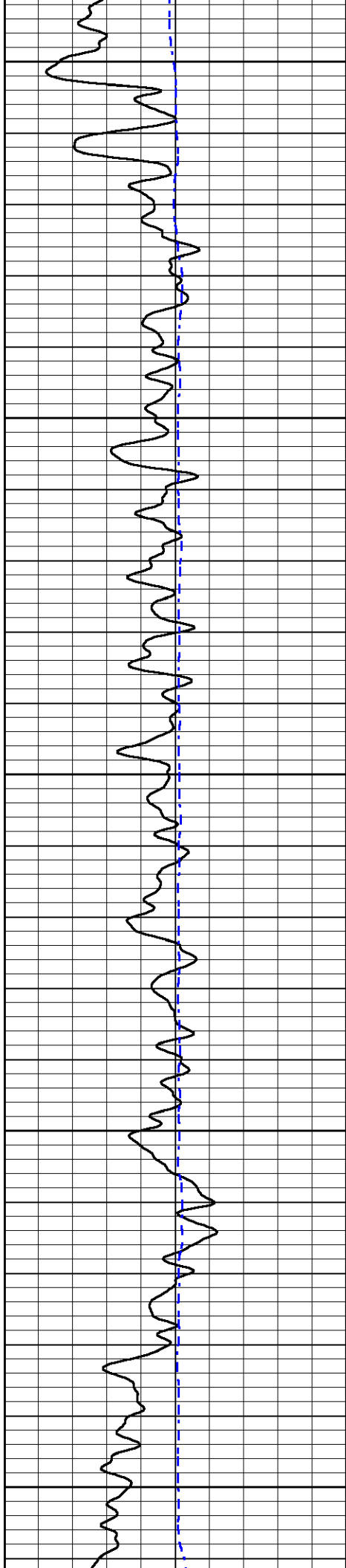
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2700





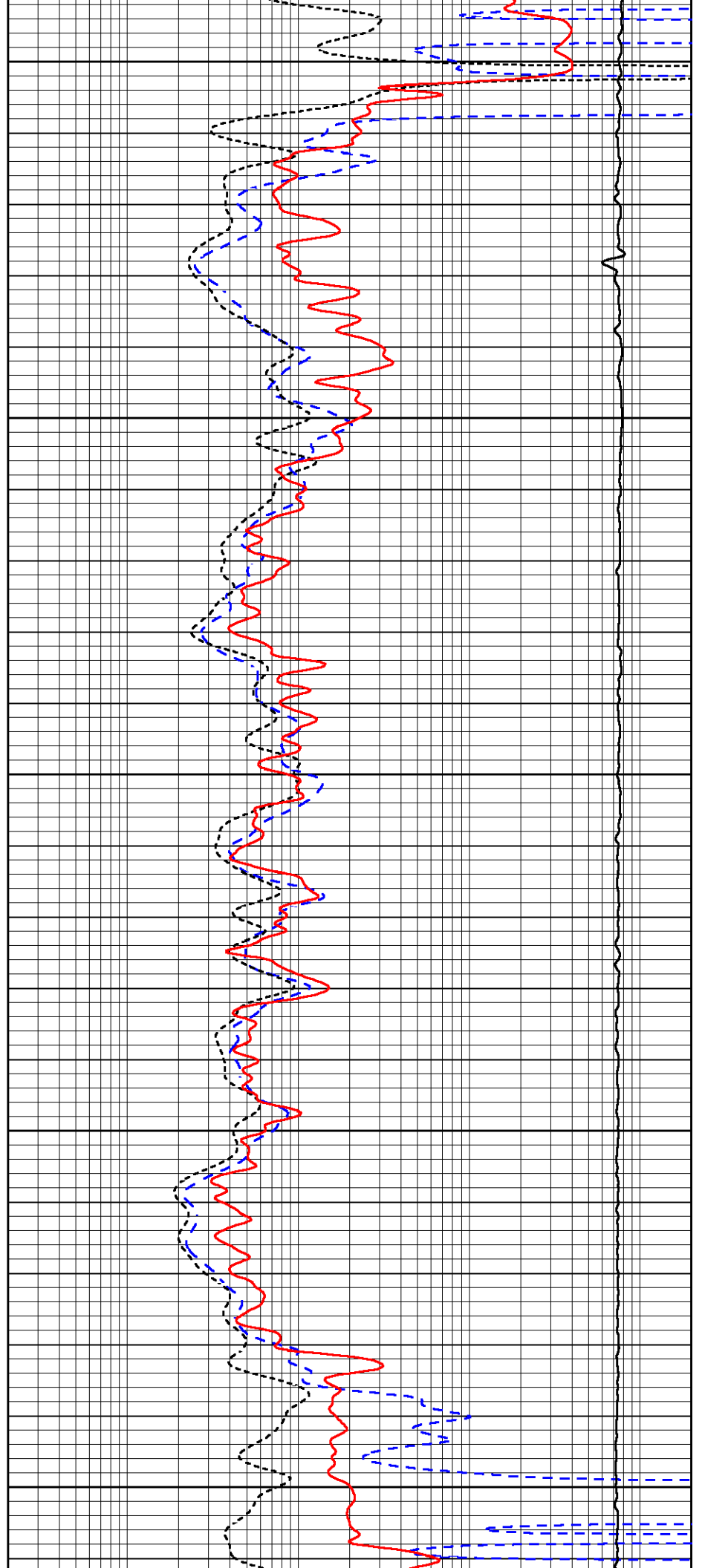
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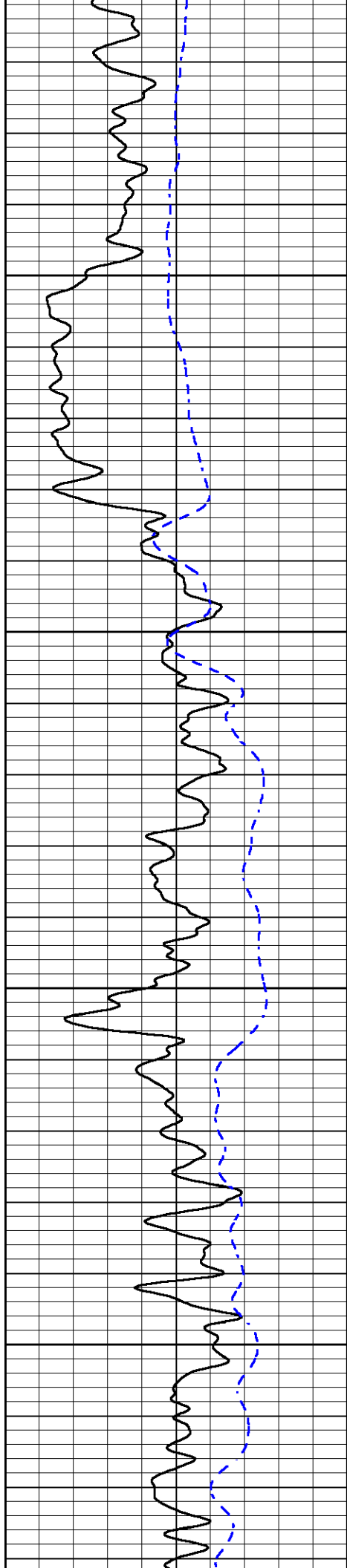
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2850

2900

2950



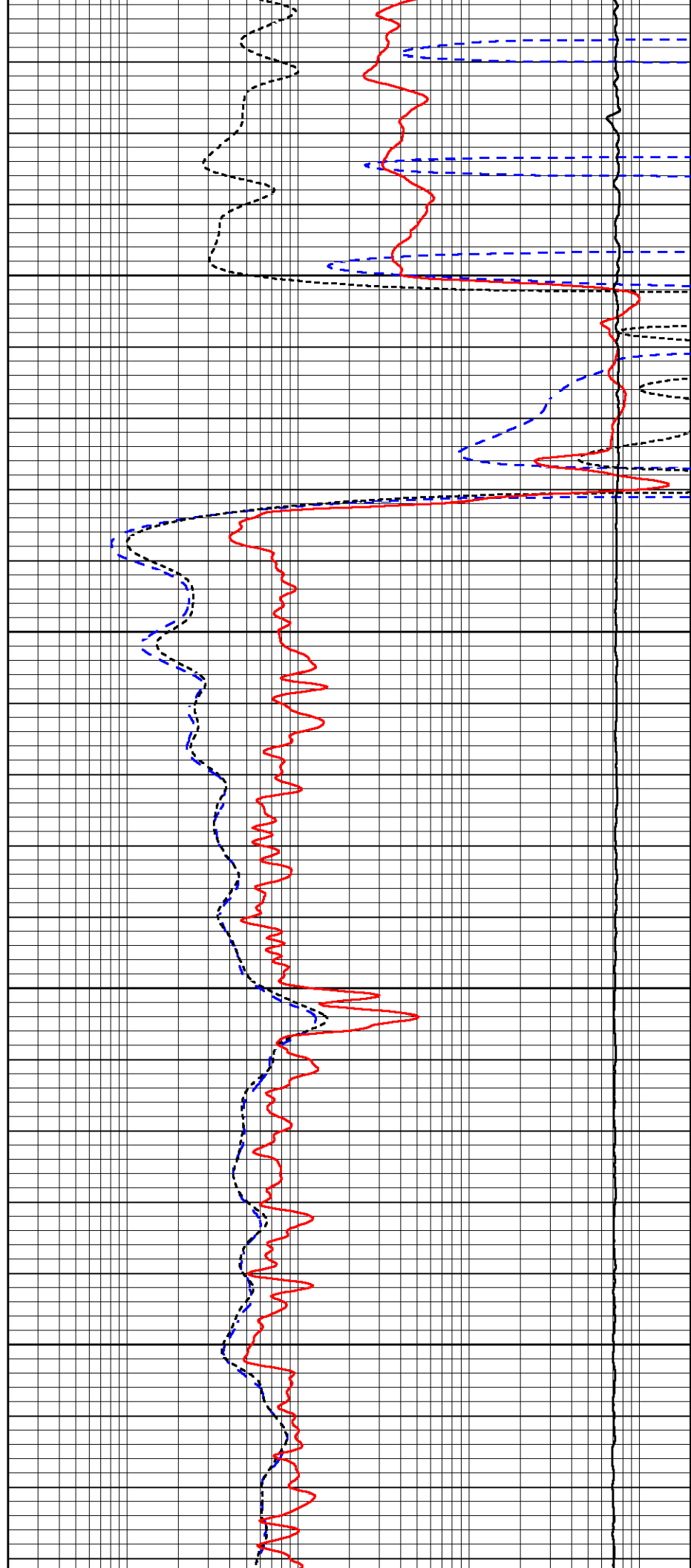


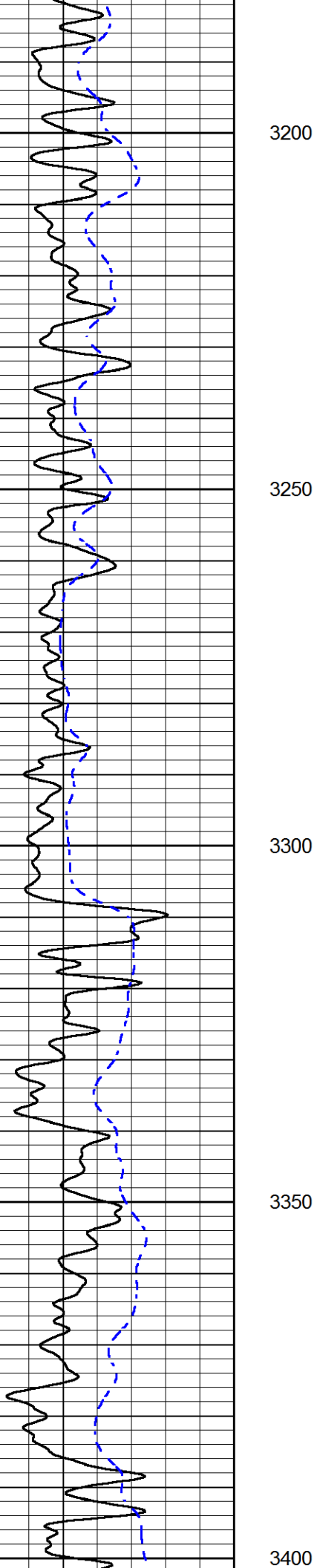
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3050

3100

3150





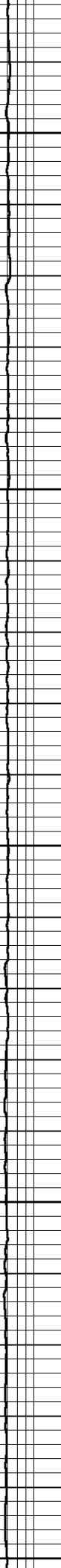
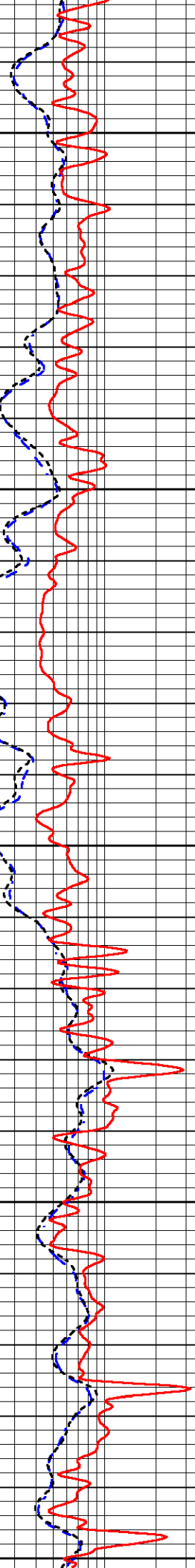
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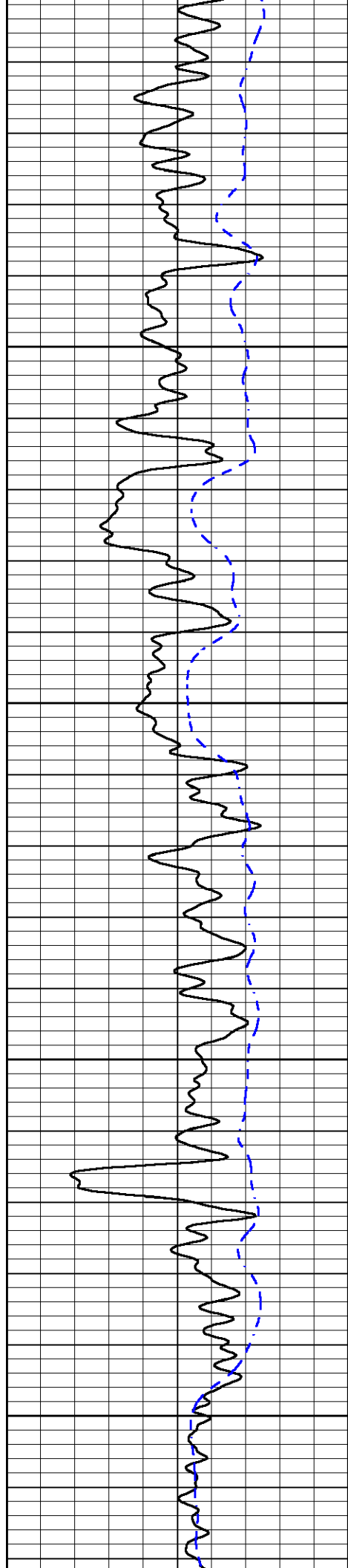
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3300

3350

3400



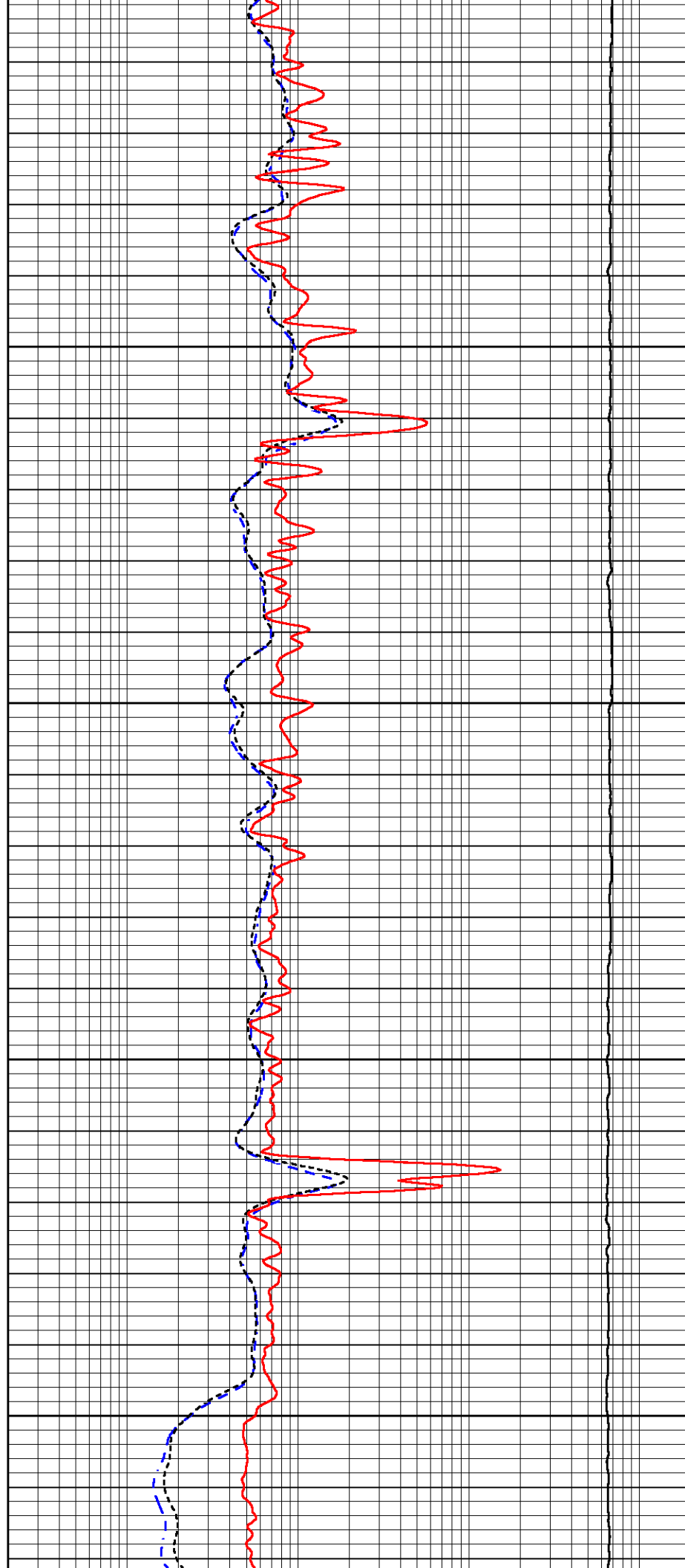


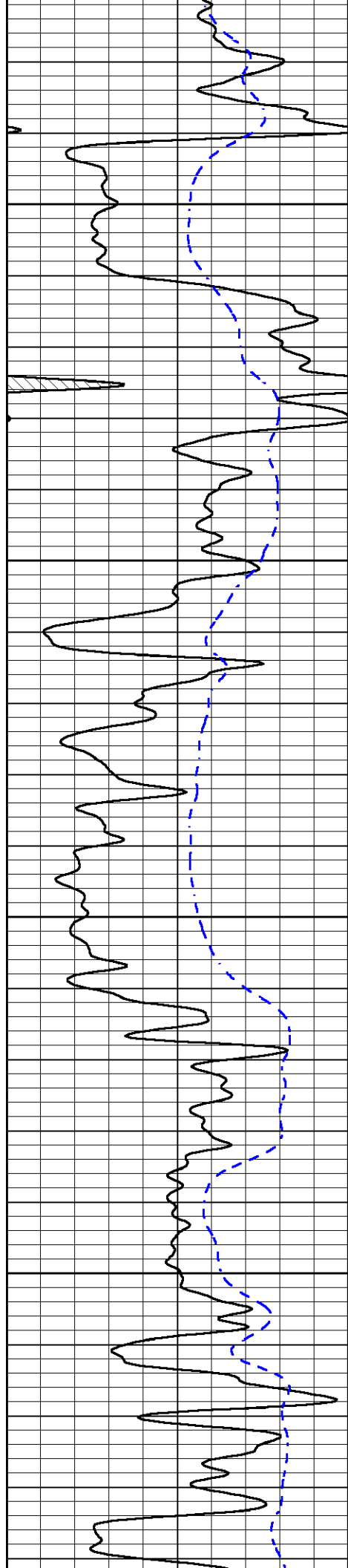
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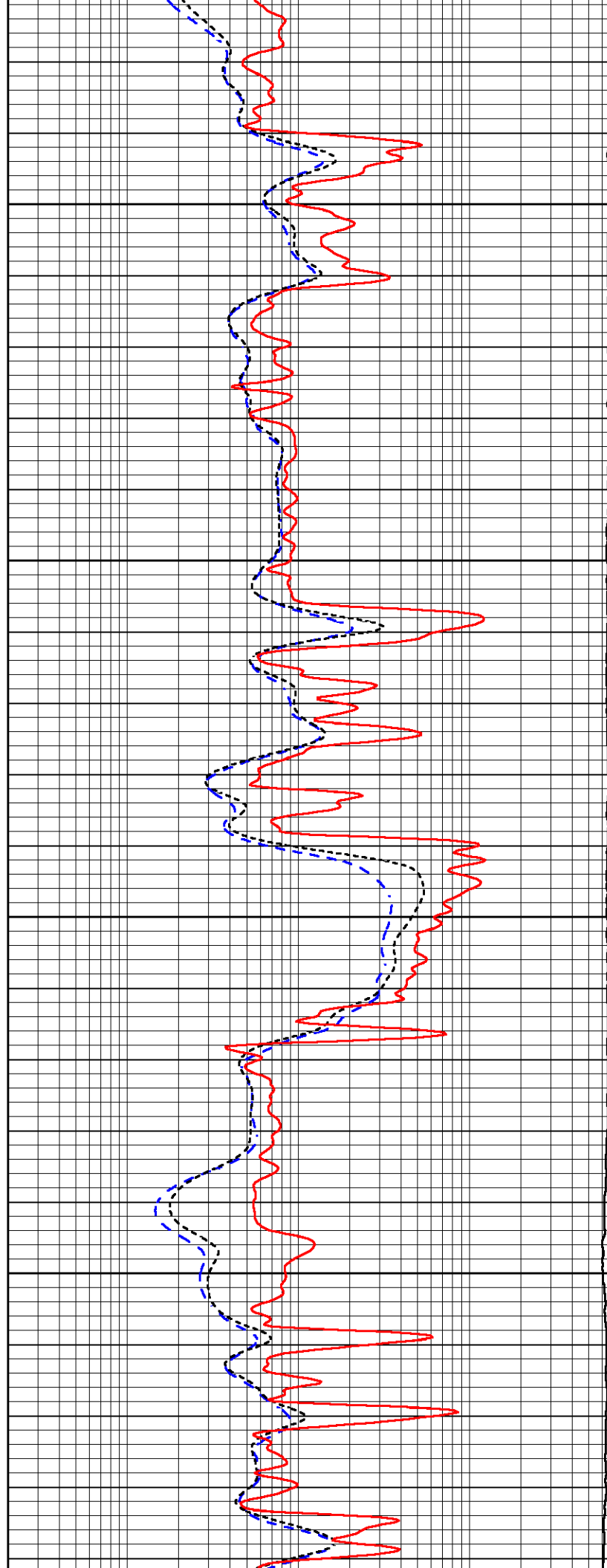


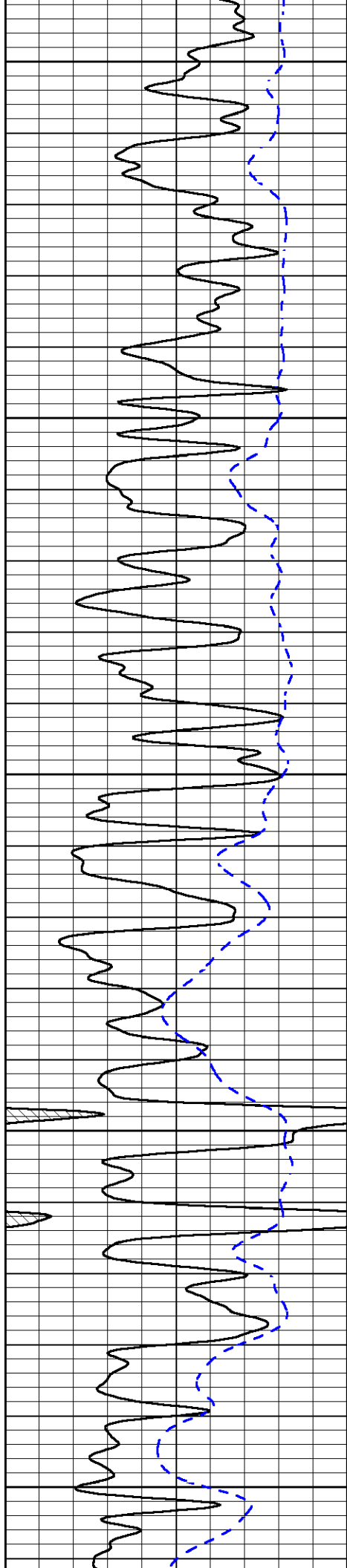
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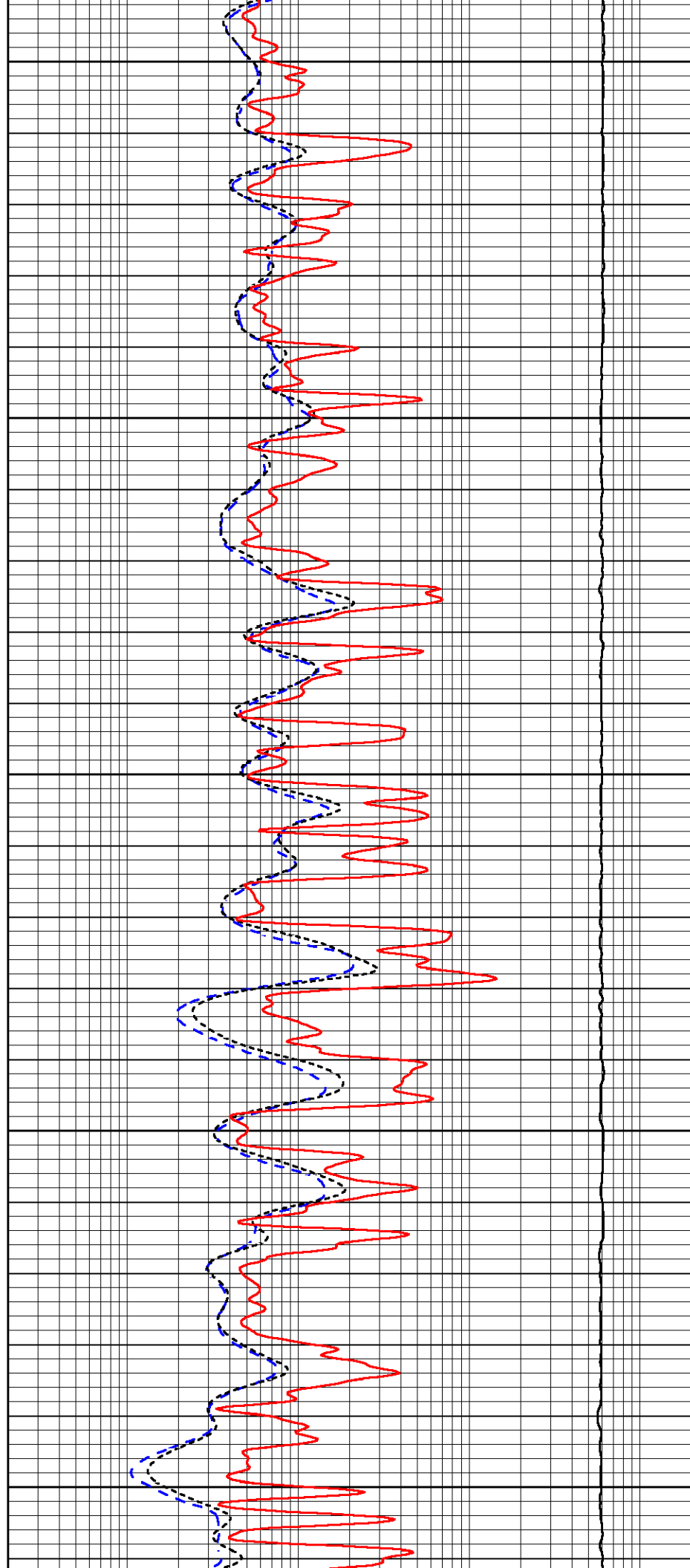
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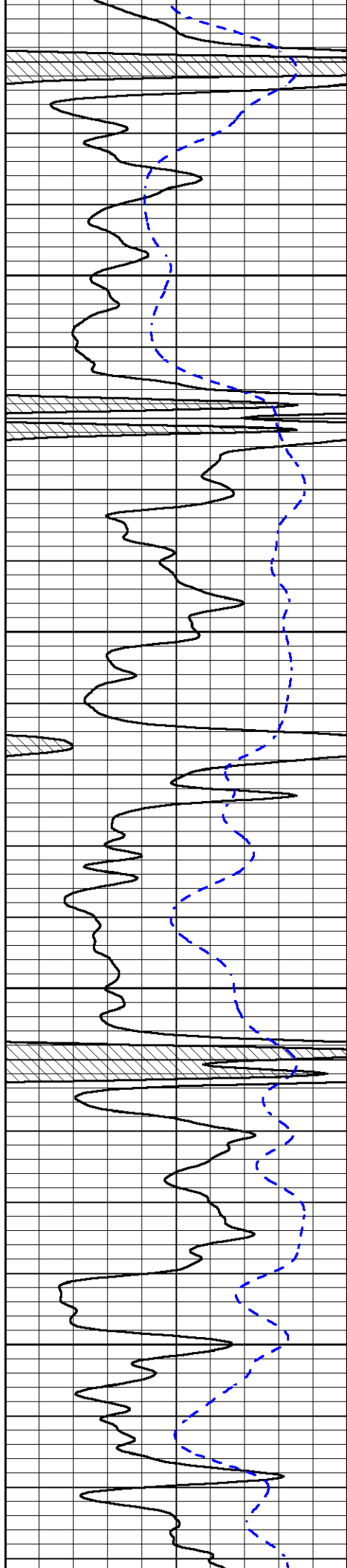
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4050



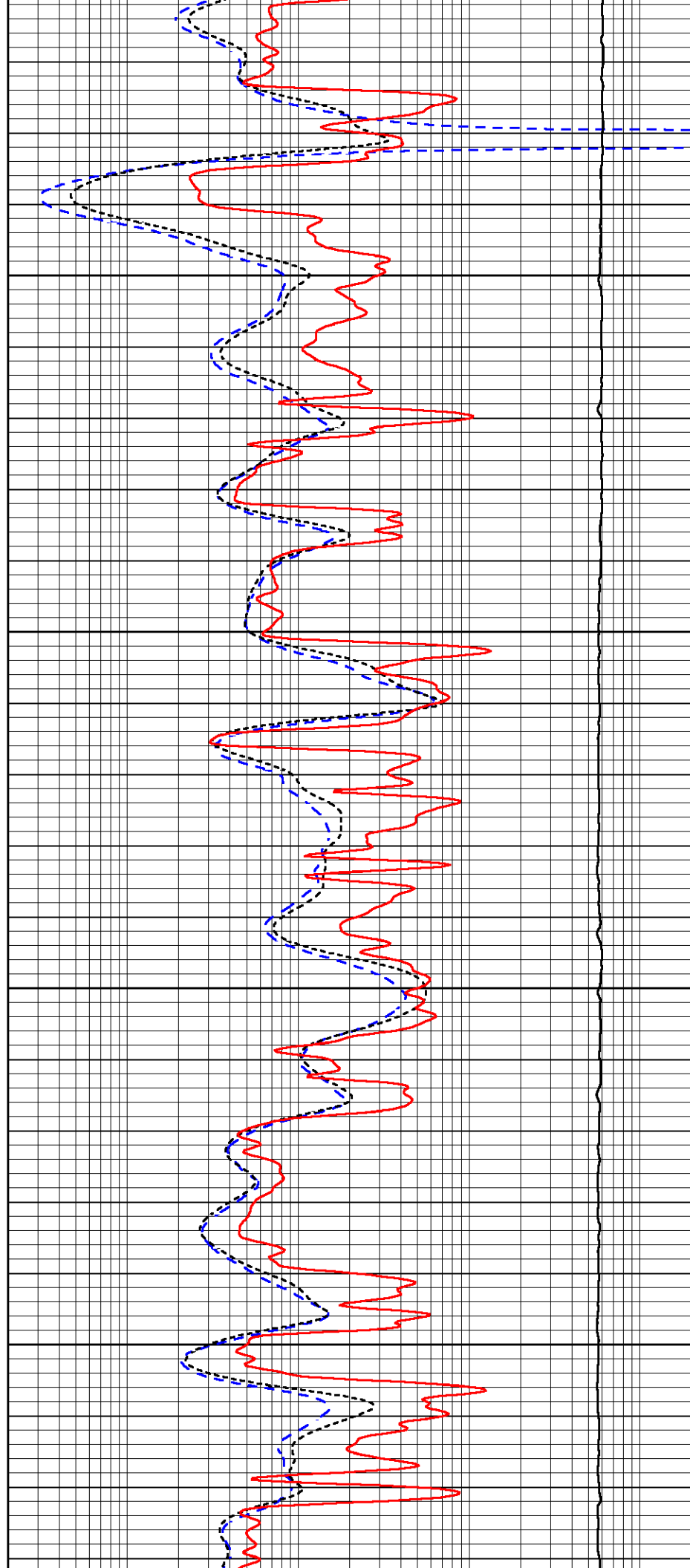


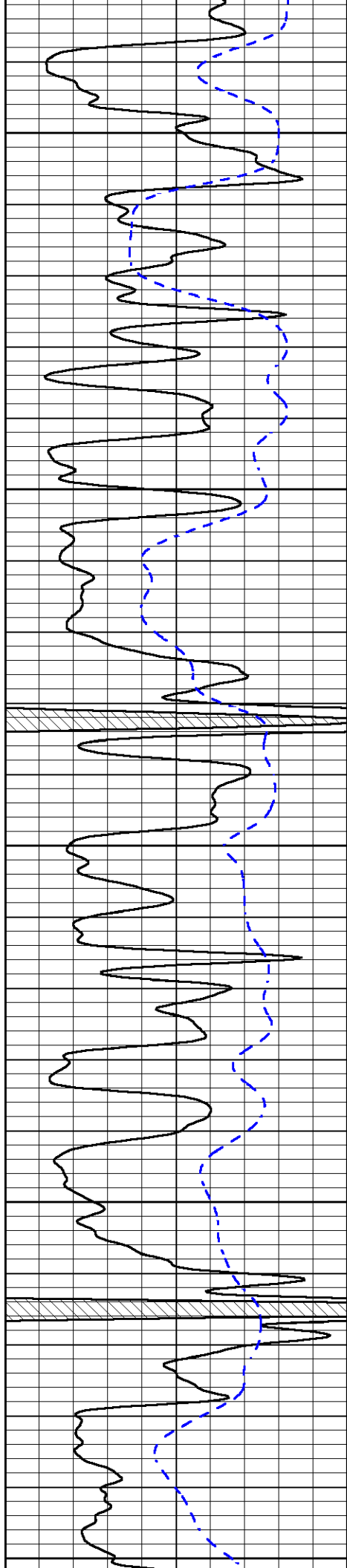
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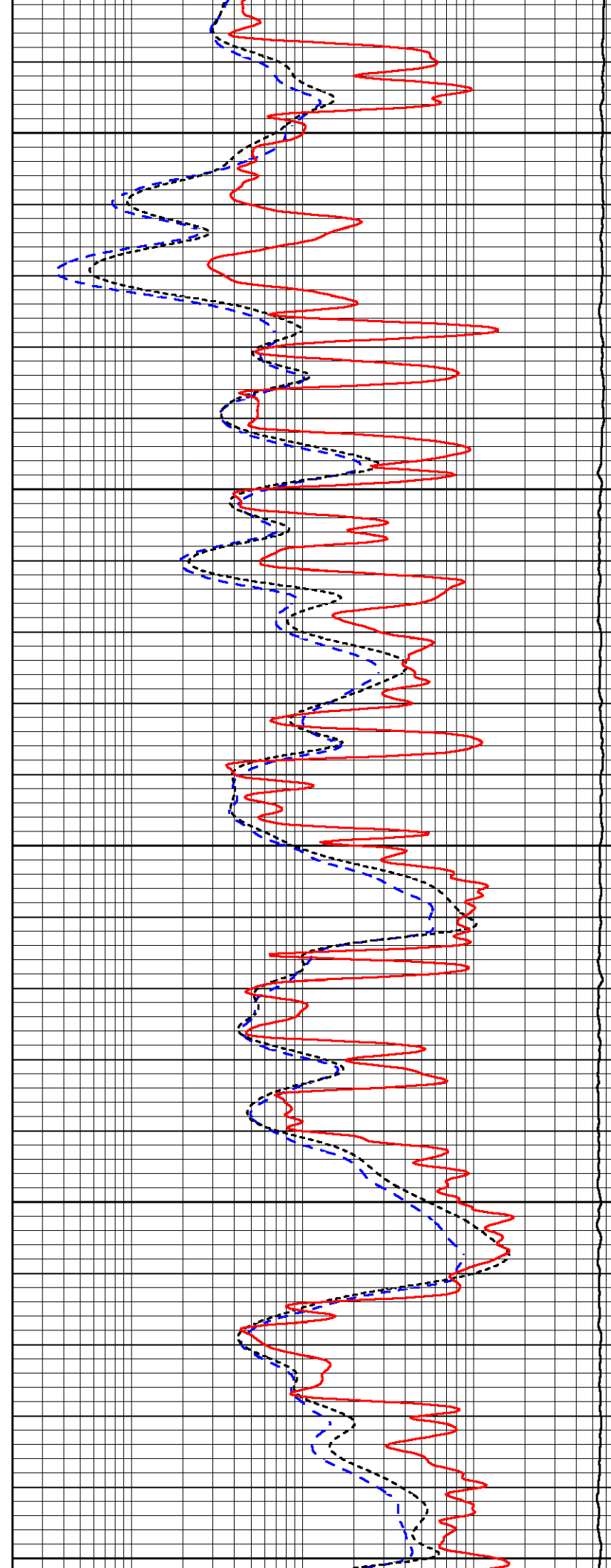
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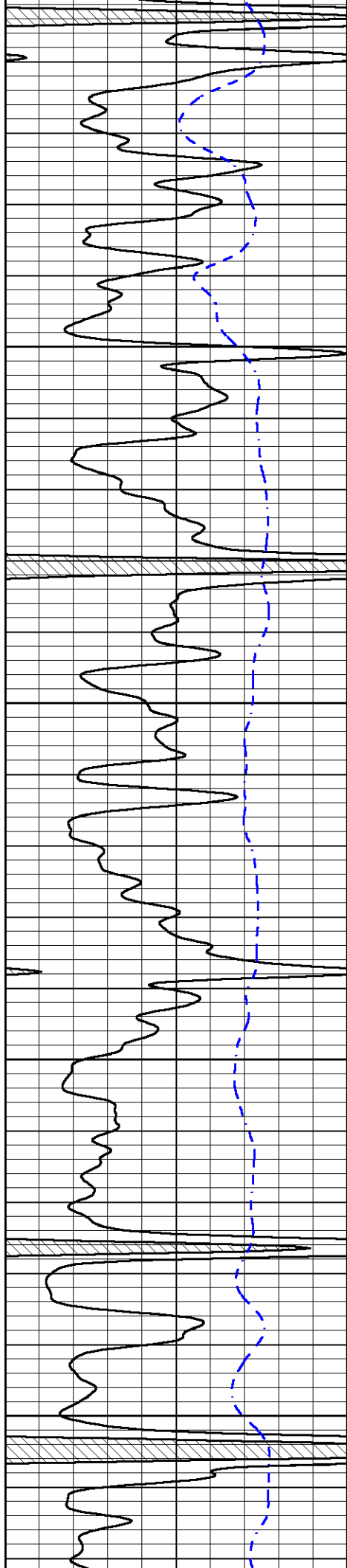
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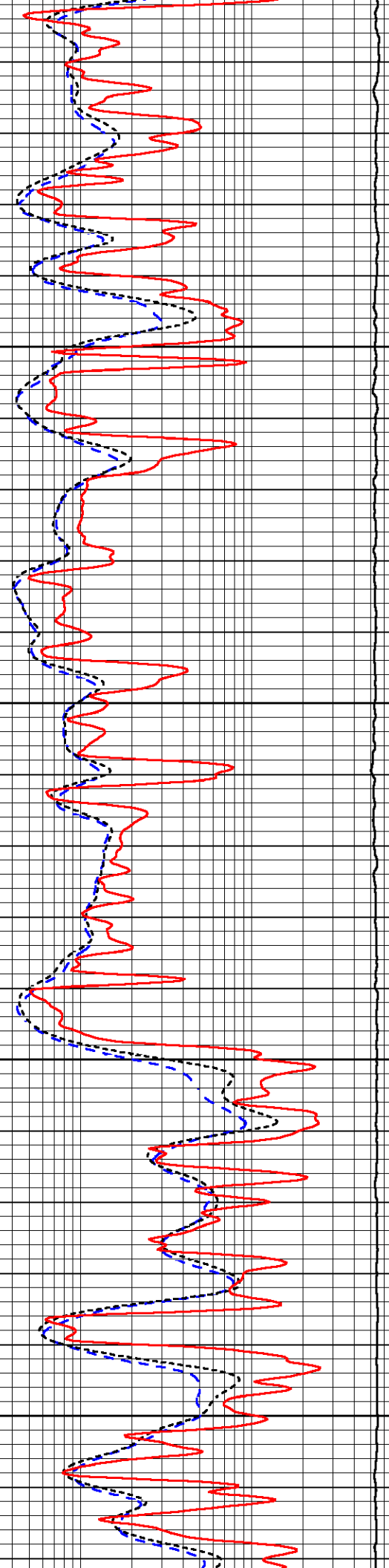


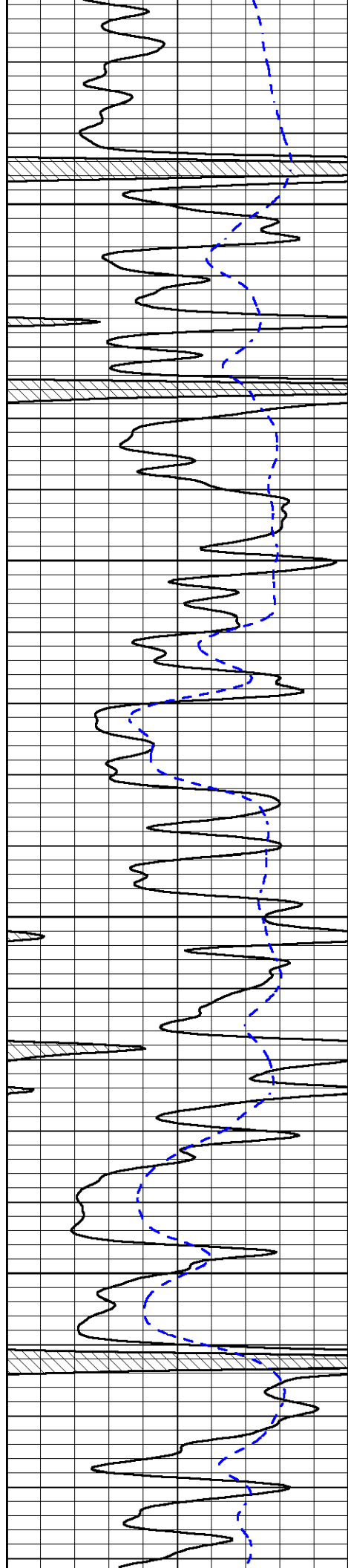
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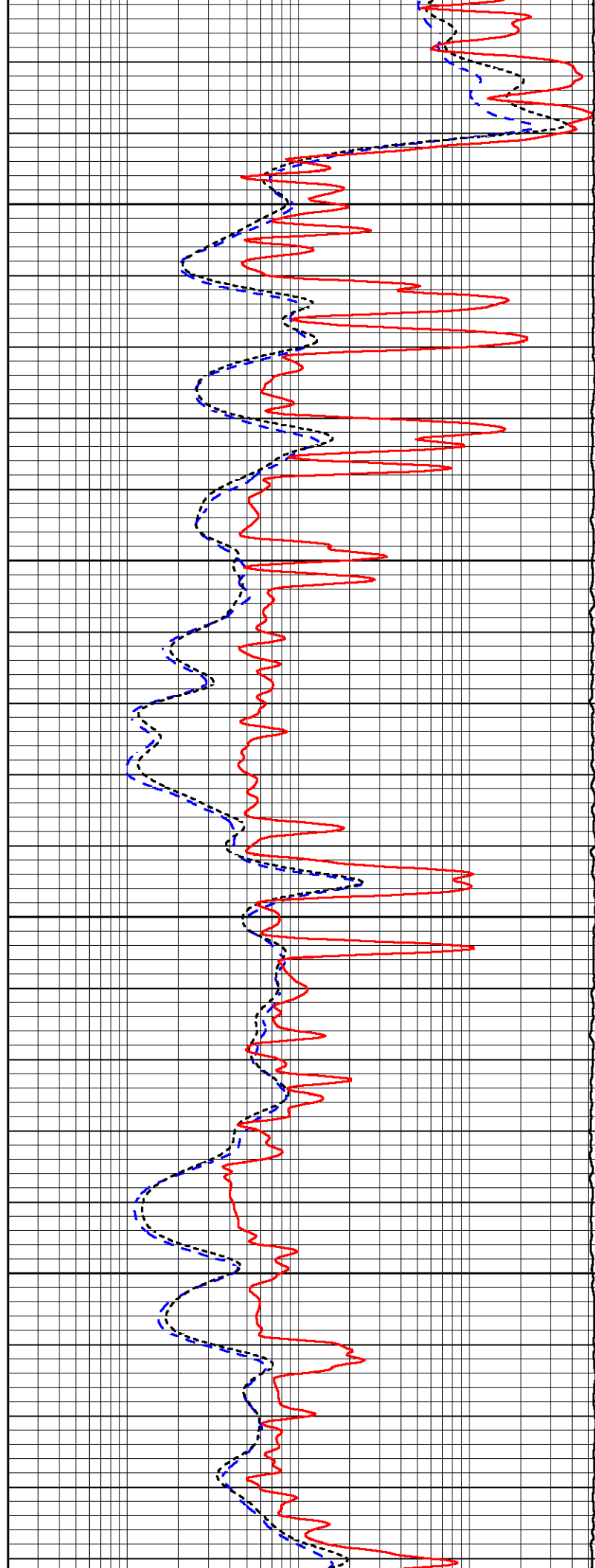


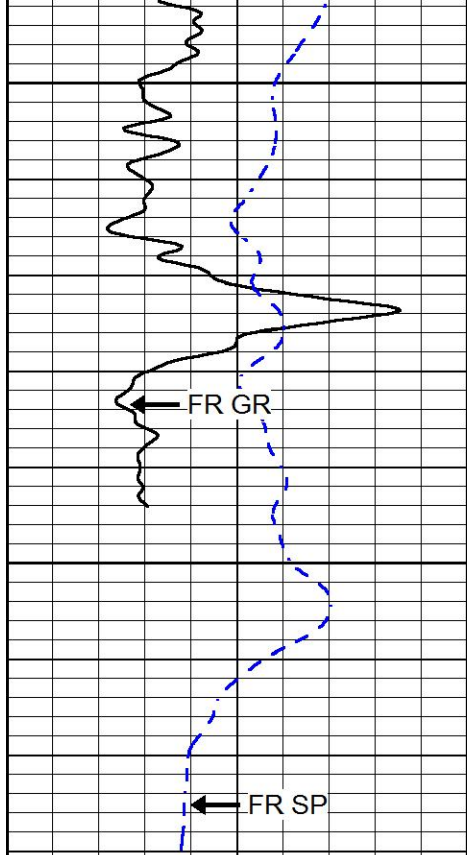
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4800

4850

4900

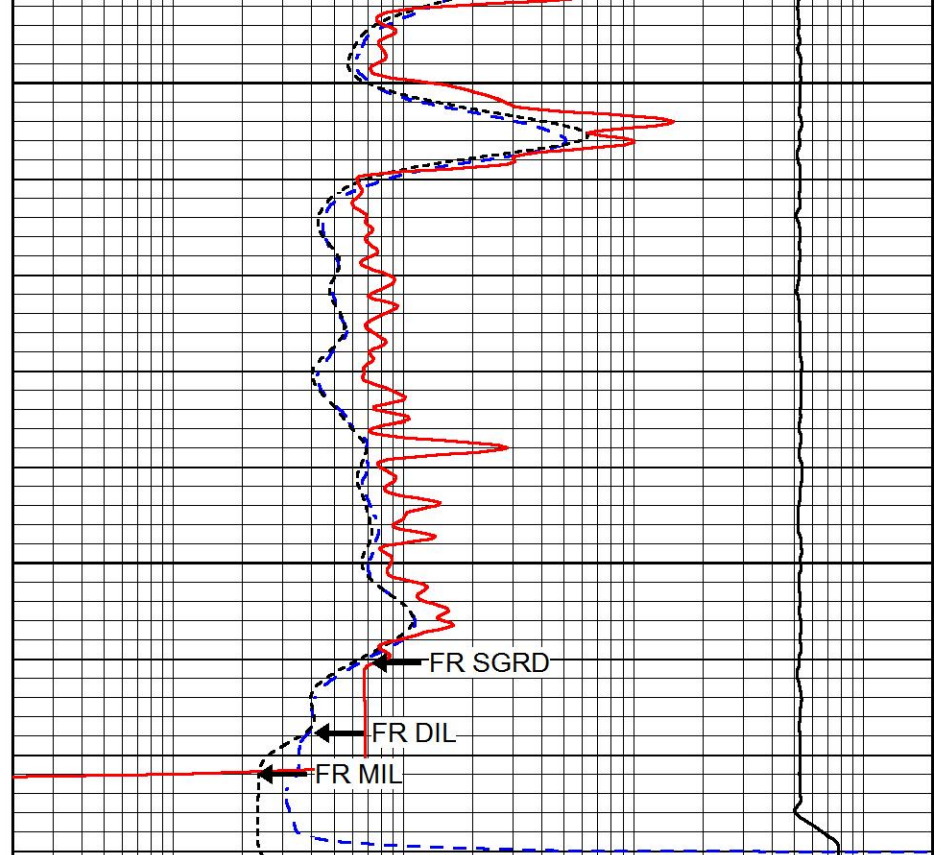




4950

5000

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0



0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0

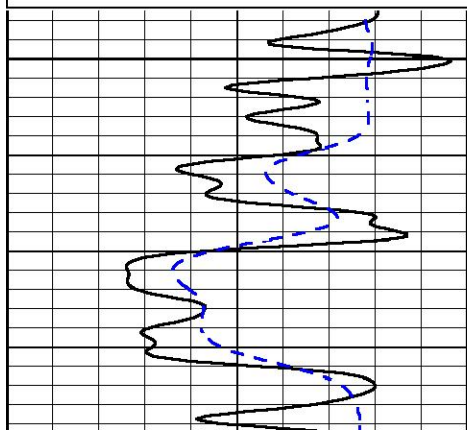


REPEAT SECTION

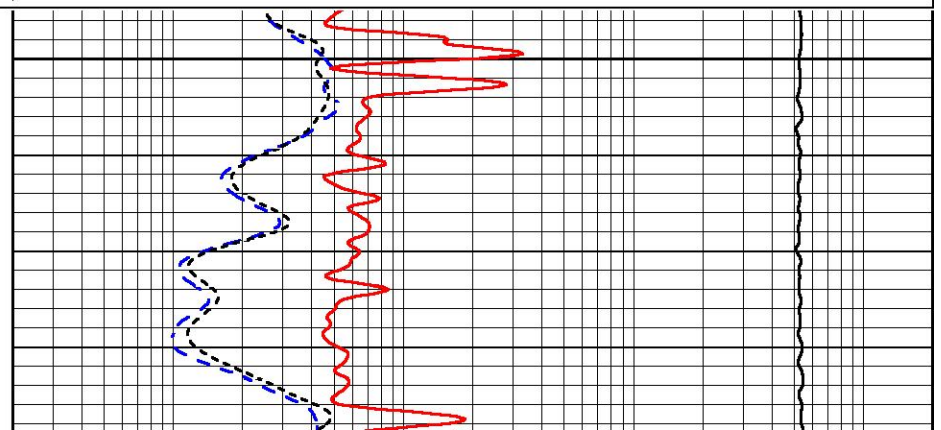
Database File gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname stackml/pass2.1
 Presentation Format dil
 Dataset Creation Wed Apr 04 22:18:18 2018
 Charted by Depth in Feet scaled 1:240

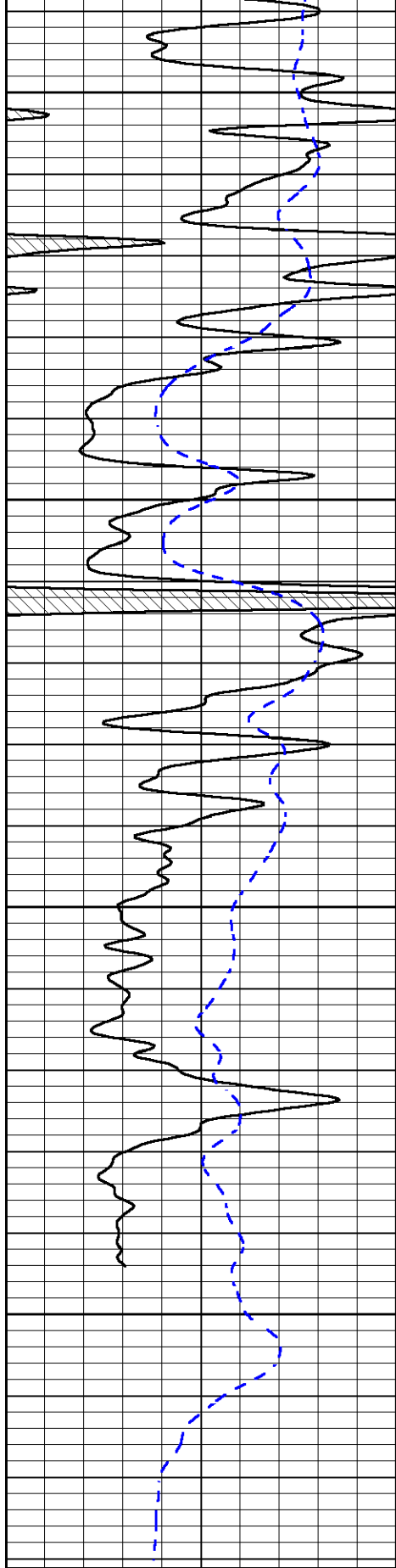
0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0

0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0



4800





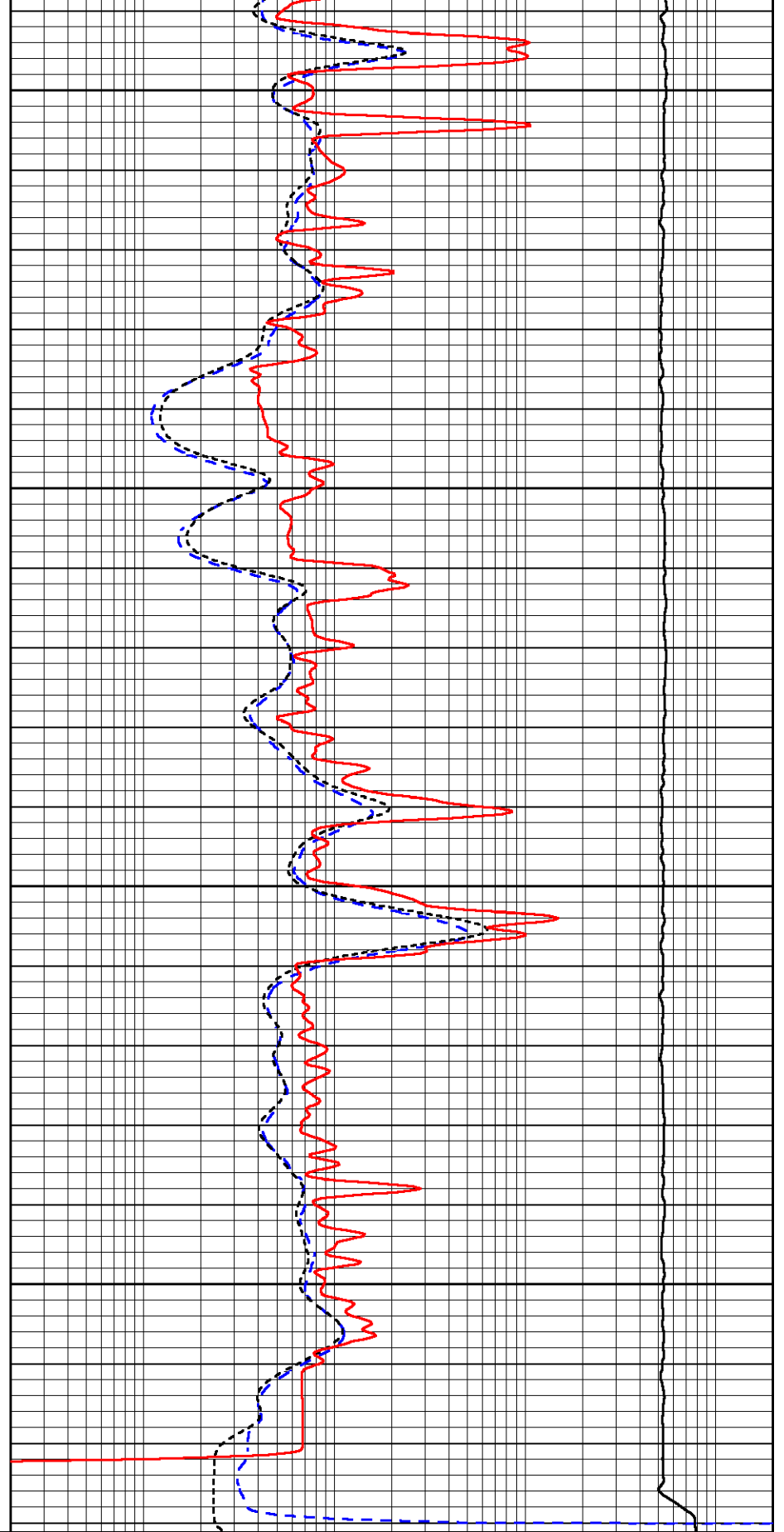
4850

4900

4950

5000

0	GAMMA RAY (GAPI)	150
-200	SP (mV)	0



0.2	DEEP RESISTIVITY (Ohm-m)	2000
0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
15000	LINE TENSION (lb)	0

Calibration Report

Database File gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname stackml/pass3.1
 Dataset Creation Wed Apr 04 22:18:07 2018

Dual Induction Calibration Report

Serial-Model: PSI 978-M&W
 Calibration Performed: Sun Feb 04 11:50:02 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-40.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.400	-37.000

Microlog Calibration Report

Serial-Model: PSI-02-PSI STKBL ML
 Performed: Fri Jun 23 01:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	24000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	23000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.6000

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
 Source / Verifier: /
 Master Calibration Performed: Tue Apr 11 17:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.705	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.540		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
 Tool Model: M&W
 Calibration Performed: Wed Nov 16 11:21:36 2016

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:	89-M&W	
Tool Model:	M&W	
Calibration Performed:	Tue Apr 11 17:08:01 2017	
Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps



PIONEER
Pioneer Energy Services

Company	GULF EXPLORATION, LLC
Well	CARPENTER TRUST NO. 1-18
Field	WILDCAT
County	THOMAS
State	KANSAS



MICRORESISTIVITY LOG

Company GULF EXPLORATION, LLC
 Well CARPENTER TRUST NO. 1-18
 Field WILDCAT
 County THOMAS
 State KANSAS

Company GULF EXPLORATION, LLC
 Well CARPENTER TRUST NO. 1-18
 Field WILDCAT
 County THOMAS State KANSAS

Location: API #: 15-193-21014-00-00
 1185' FSL & 700' FWL
 SEC 18 TWP 7S RGE 36W
 Permanent Datum GROUND LEVEL Elevation 3364'
 Log Measured From KELLY BUSHING
 Drilling Measured From KELLY BUSHING
 Other Services
 CNL/CDL
 DIL/BHCS
 Elevation
 K.B. 3369'
 D.F. N/A
 G.L. 3364'

Date	4/4/2018
Run Number	ONE
Depth Driller	5025'
Depth Logger	5026'
Bottom Logged Interval	5025'
Top Log Interval	2000'
Casing Driller	8.625" @ 303'
Casing Logger	300'
Bit Size	7.875"
Type Fluid in Hole	CHEMICAL
Salinity, ppm CL	2900
Density / Viscosity	9.2 57
pH / Fluid Loss	9.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.85 @ 67
Rmt @ Meas. Temp	.64 @ 67
Rmc @ Meas. Temp	1.15 @ 67
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.45 @ 126
Operating Rig Time	5 HOURS
Max Rec. Temp. F	126 DEGF
Equipment Number	108
Location	HAYS
Recorded By	J. HENRICKSON
Witnessed By	KEITH REAVIS

<<< 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.
 BREWSTER KANSAS
 NORTH TO V ROAD, 1 WEST, NORTH INTO

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

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







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

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gulf_exploration_carpenter_trust_1_18.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	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	3	-255	57	Off	5026

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58		GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73		CNT-M&W (tk10-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93		CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83		ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3 RLL3F	15.80 15.79					
CILD	8.00		DIL-M&W (PSI 978)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: gulf_exploration_carpenter_trust_1_18.db: field/well/stackml/pass3.1
 Total length: 43.08 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

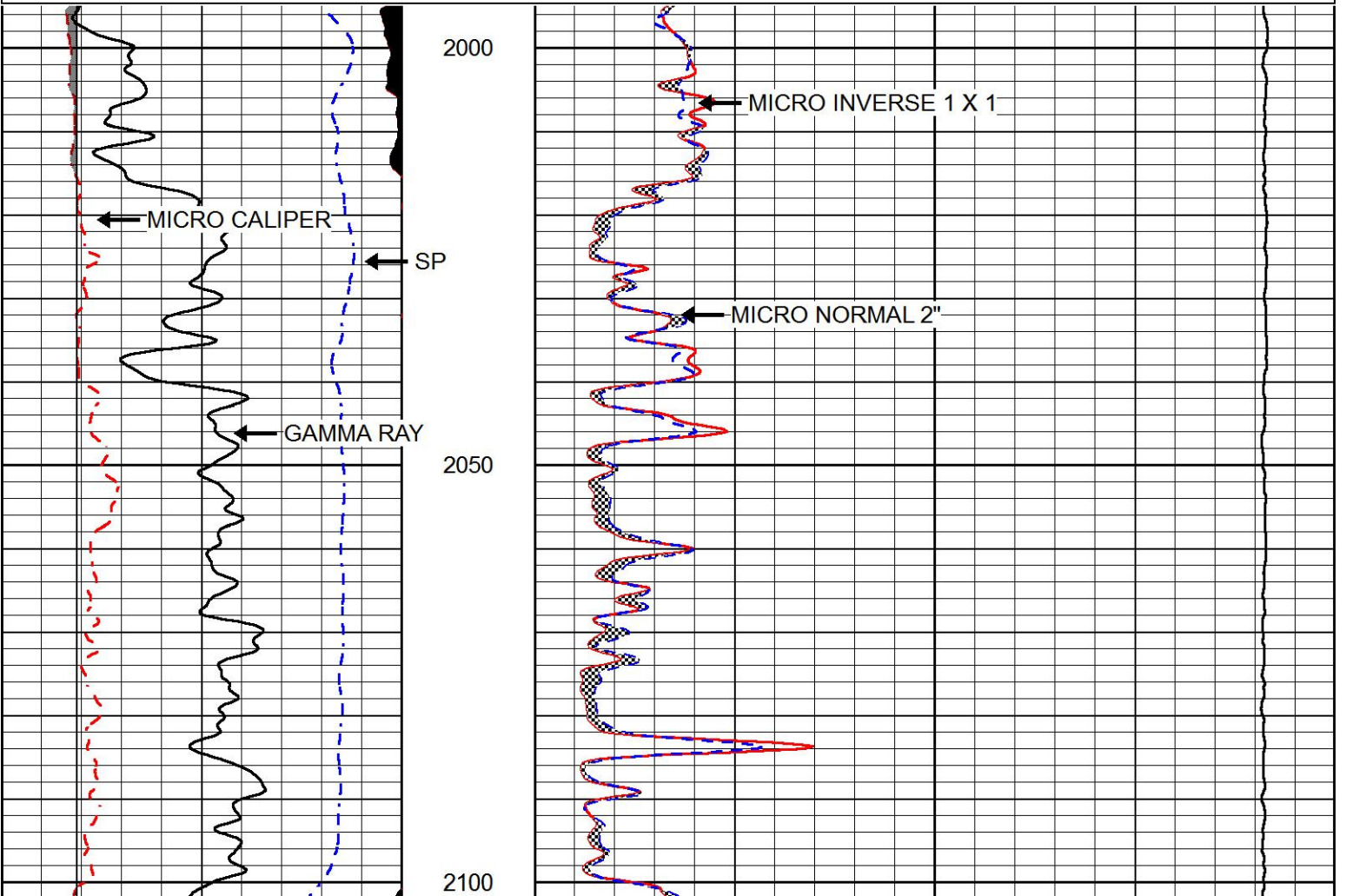


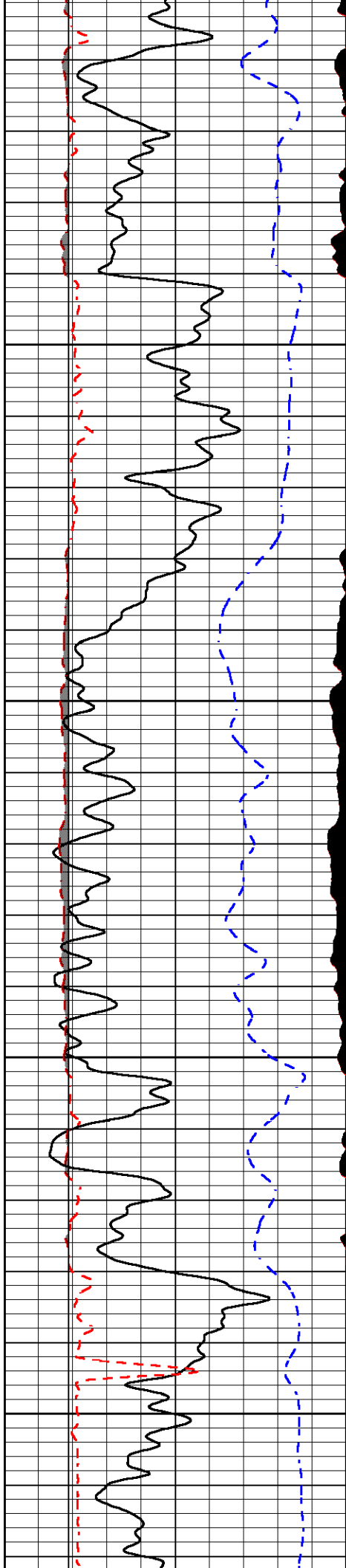
MAIN PASS

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 Dataset Pathname stackml/pass3.1
 Presentation Format micro
 Dataset Creation Wed Apr 04 22:18:07 2018
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



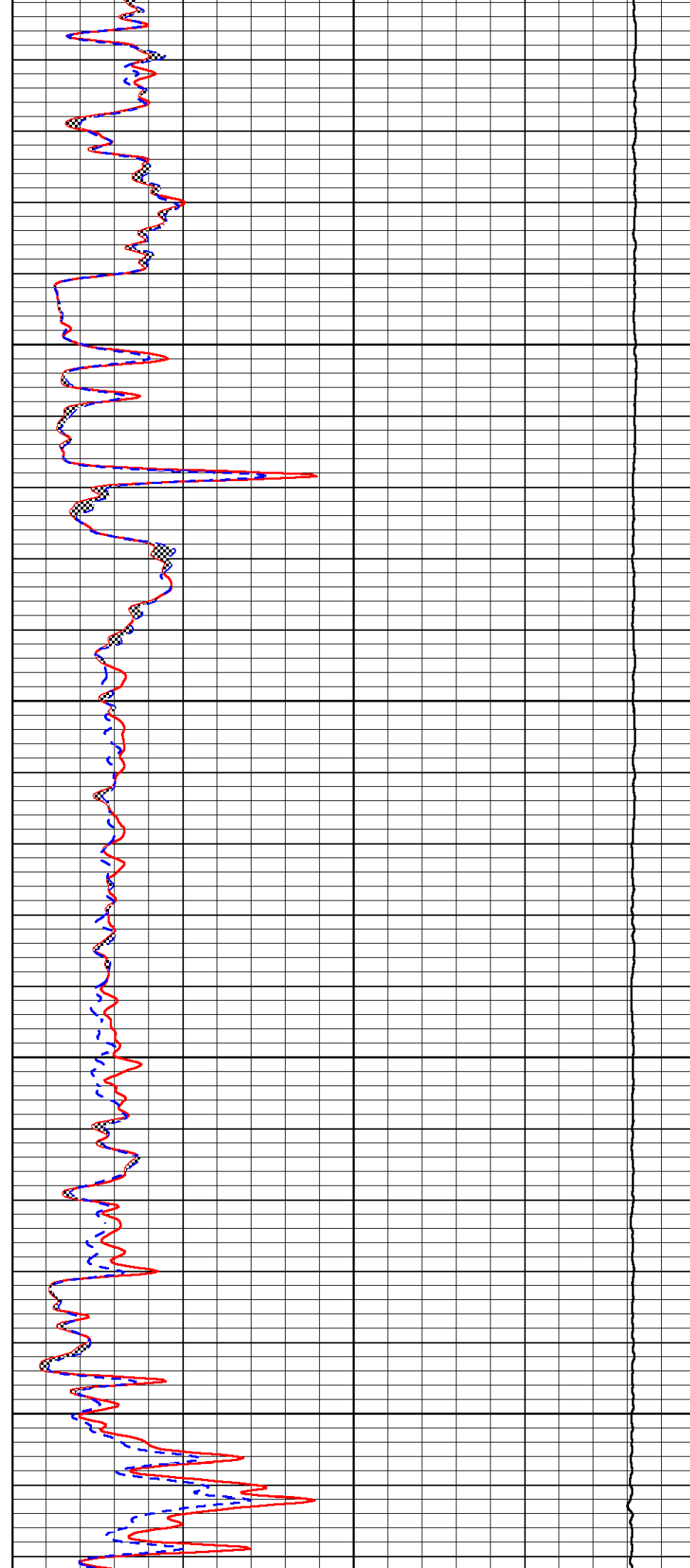


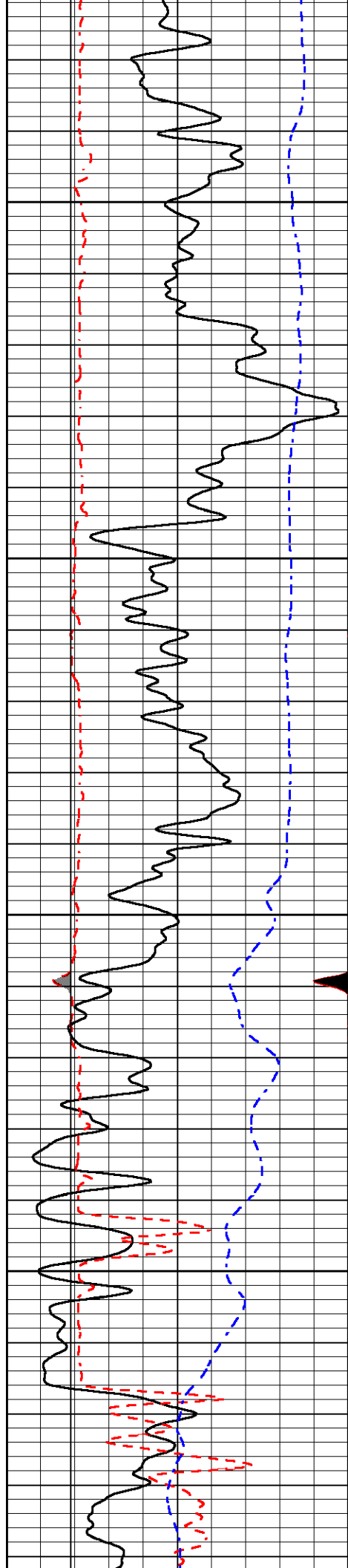
2150

2200

2250

2300



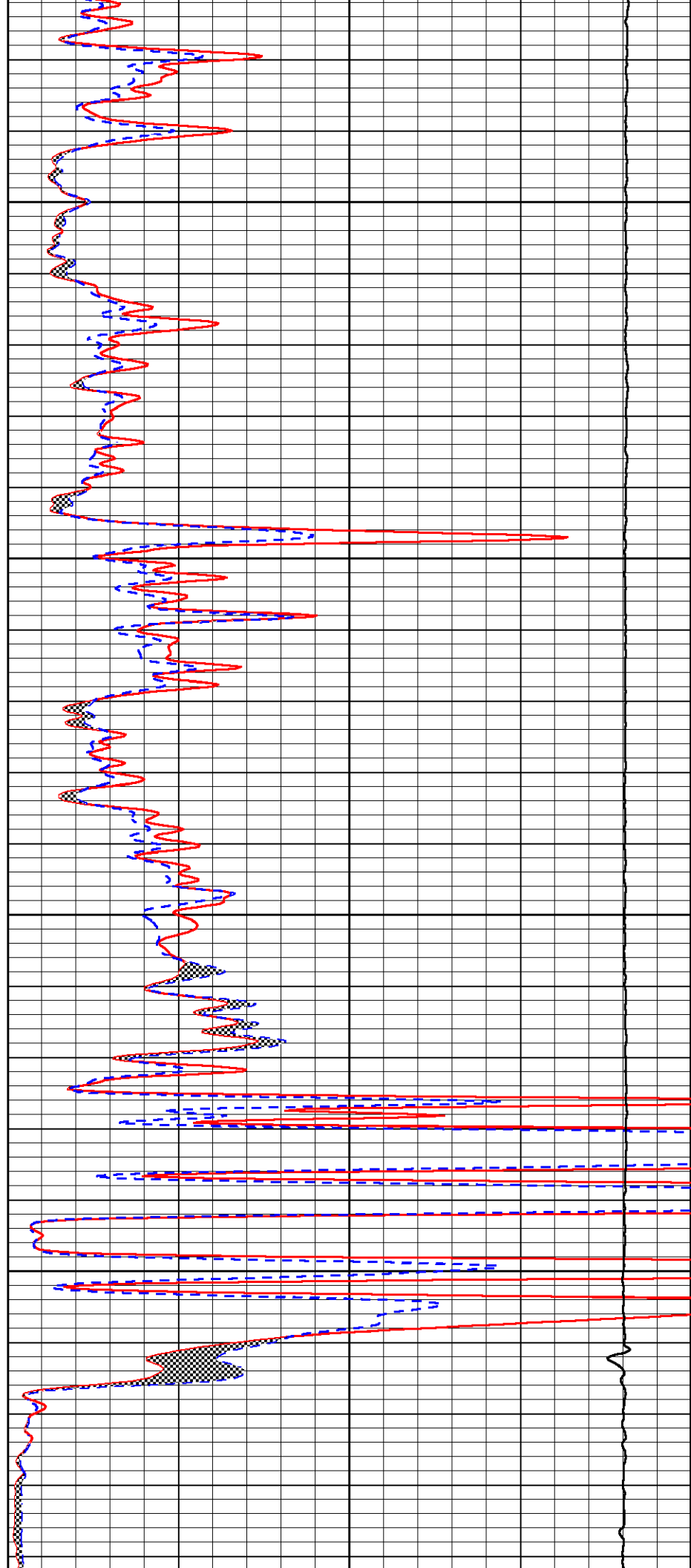


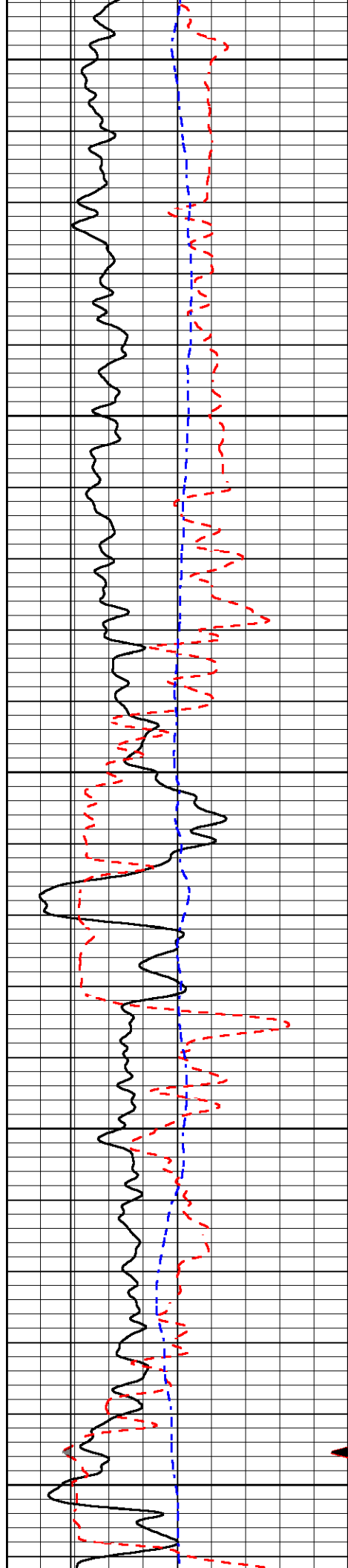
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2400

2450

2500





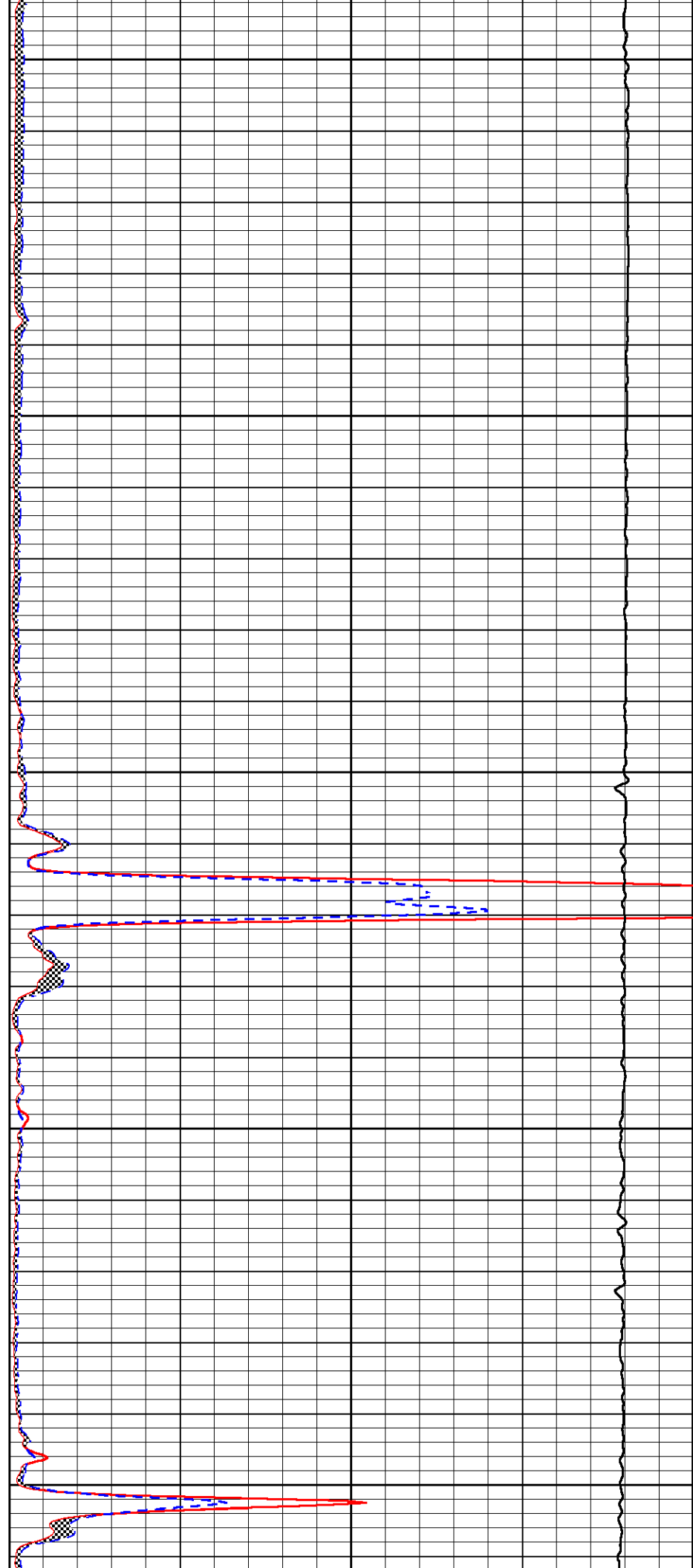
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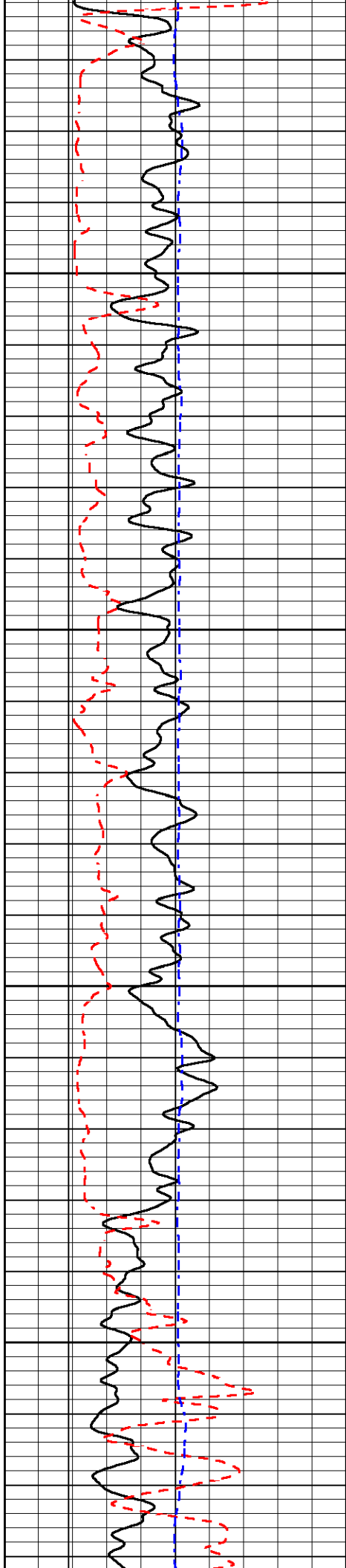
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2700

2750



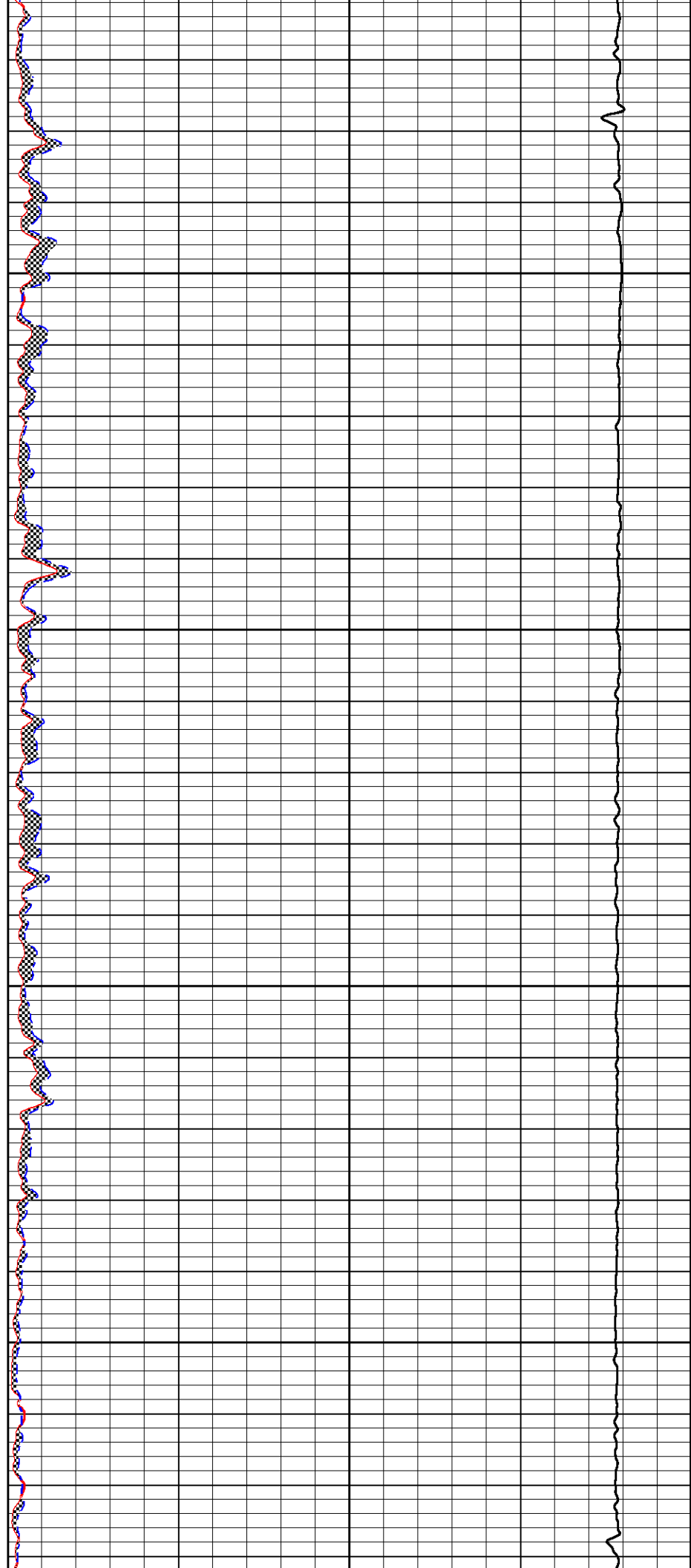


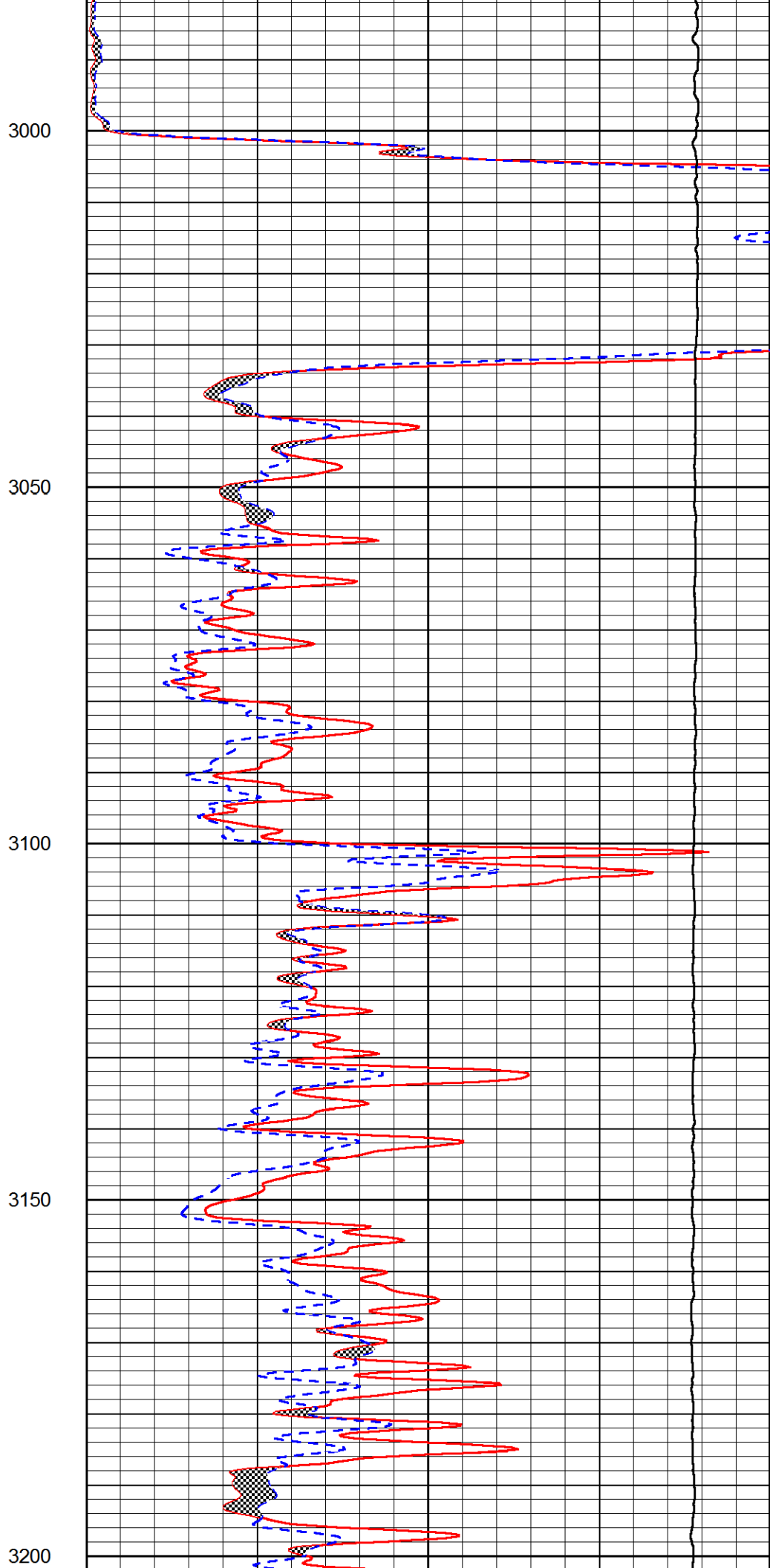
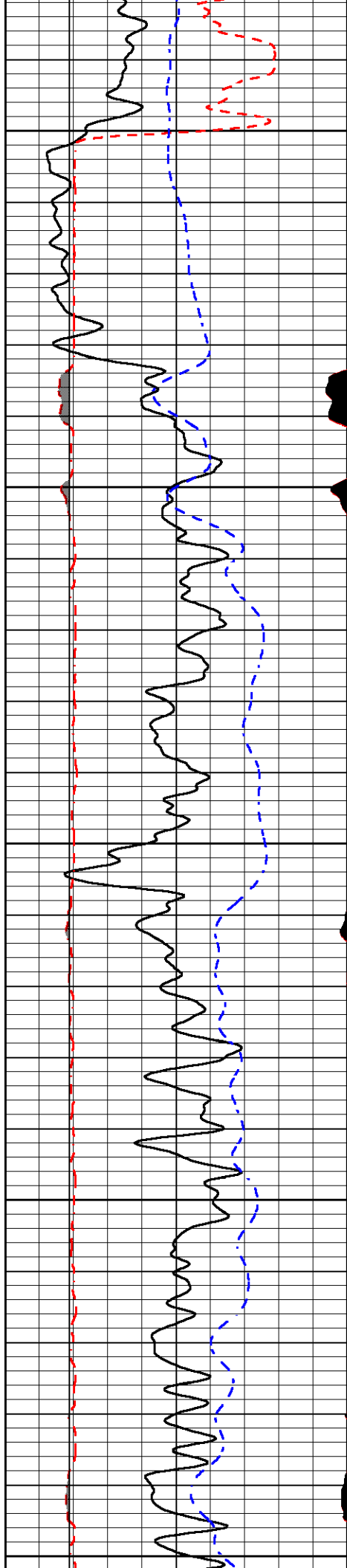
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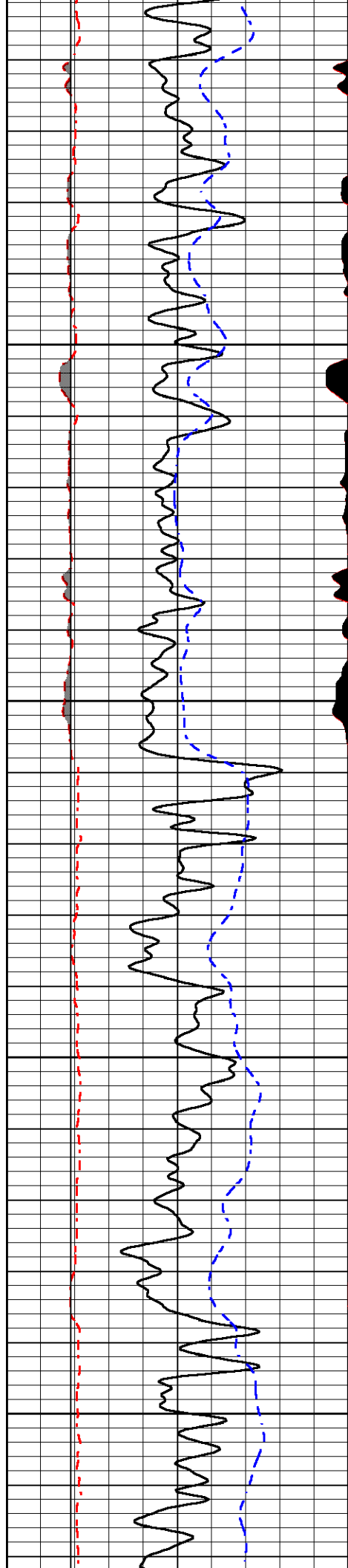
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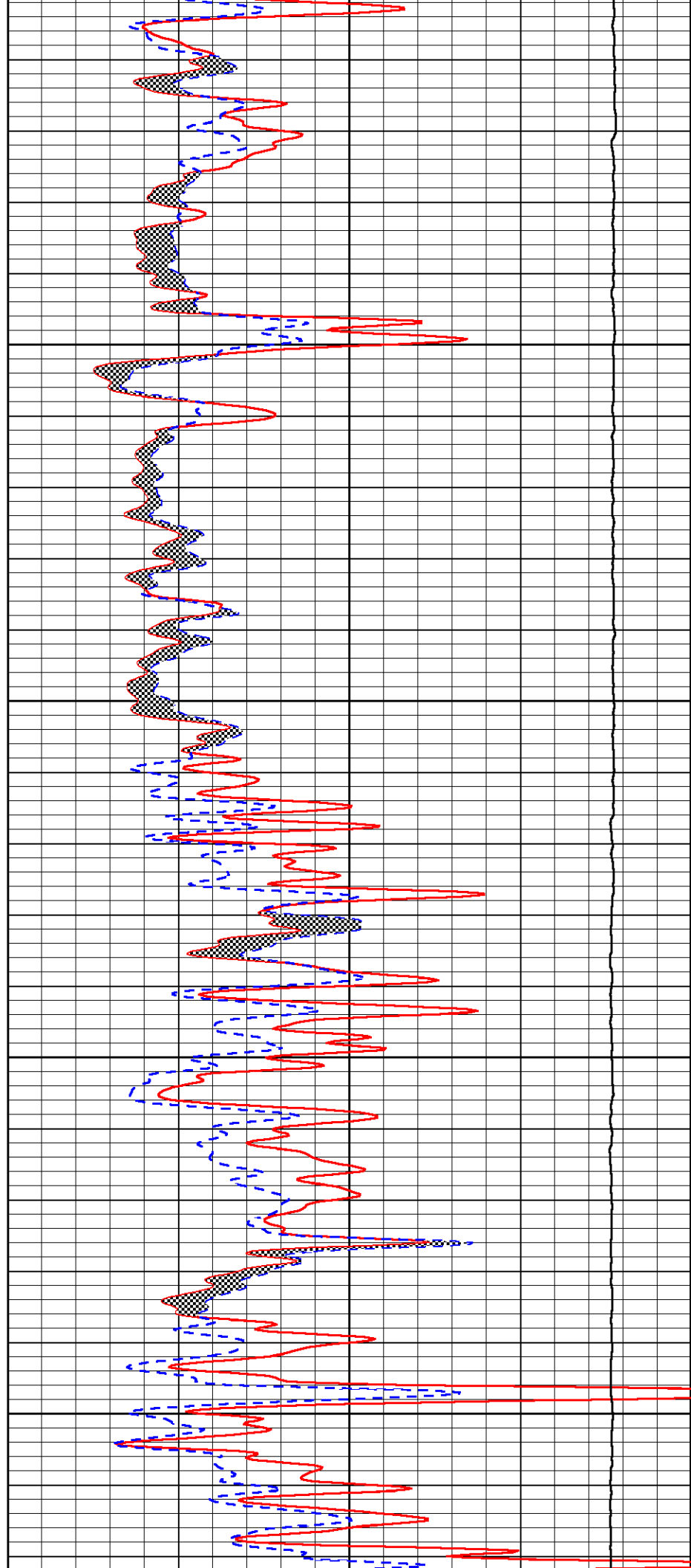


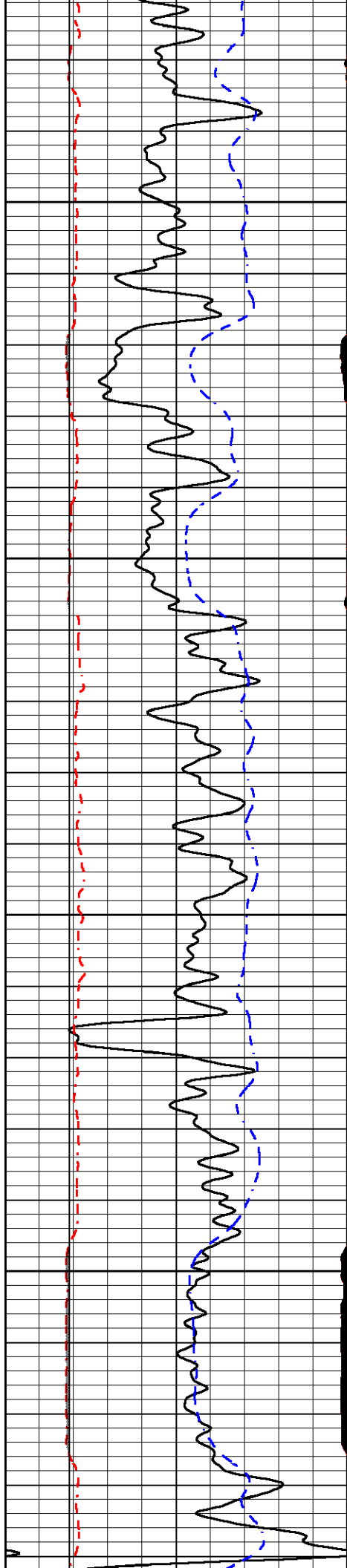
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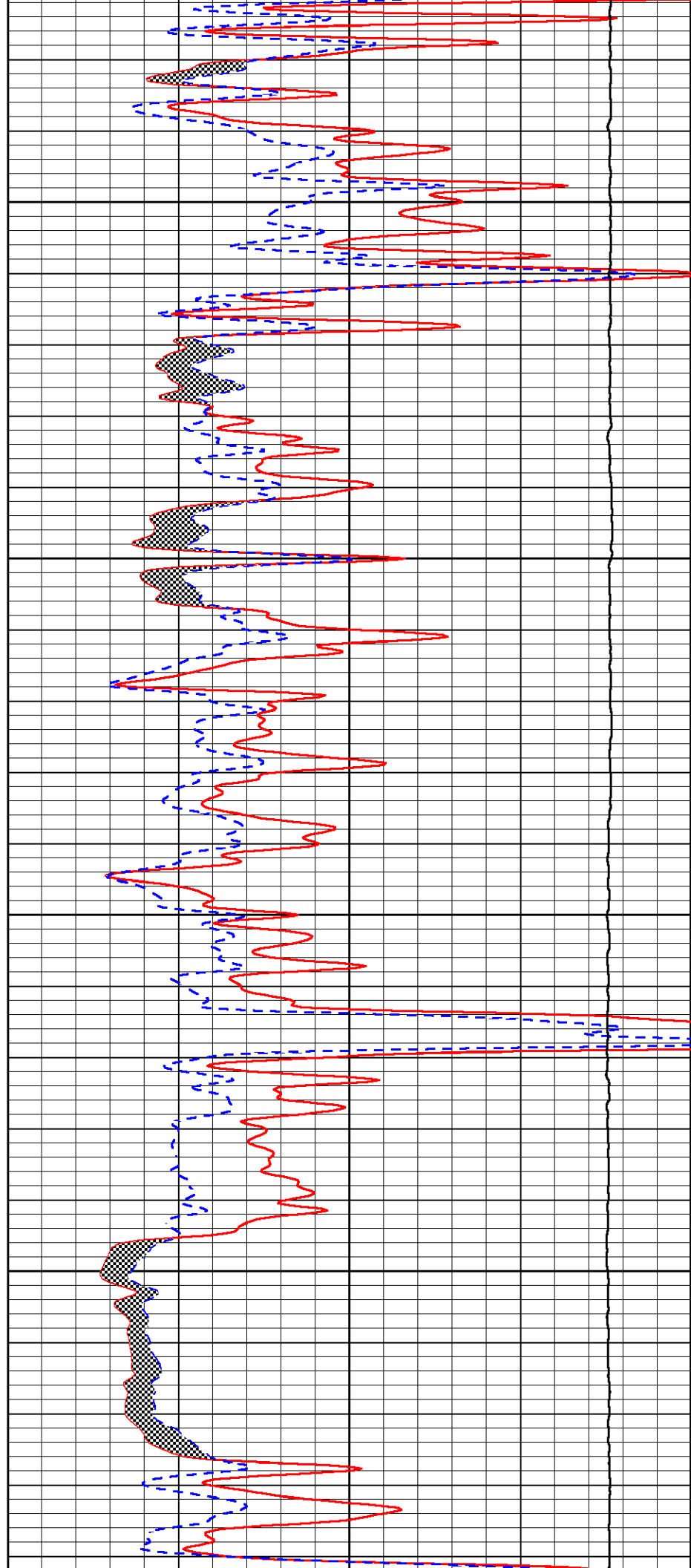


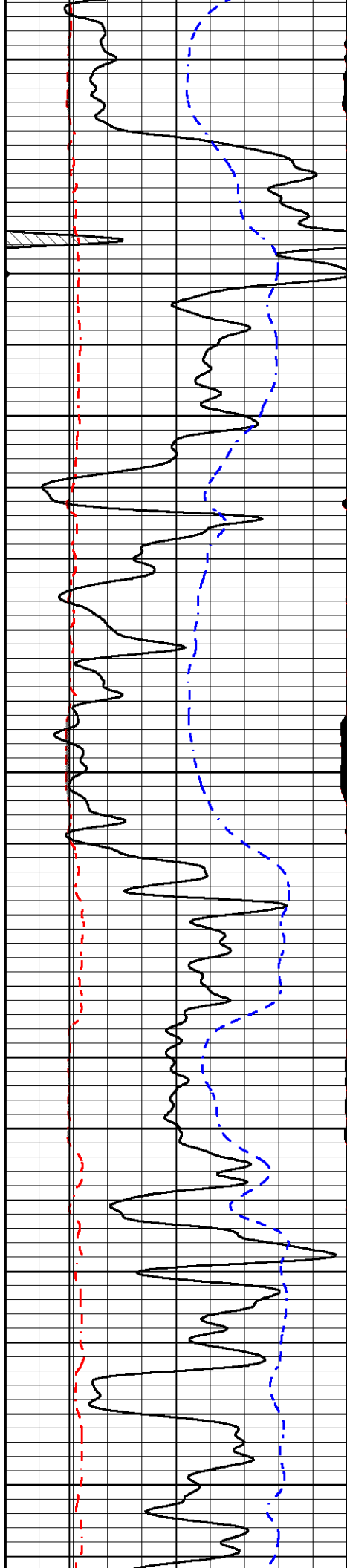
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3600





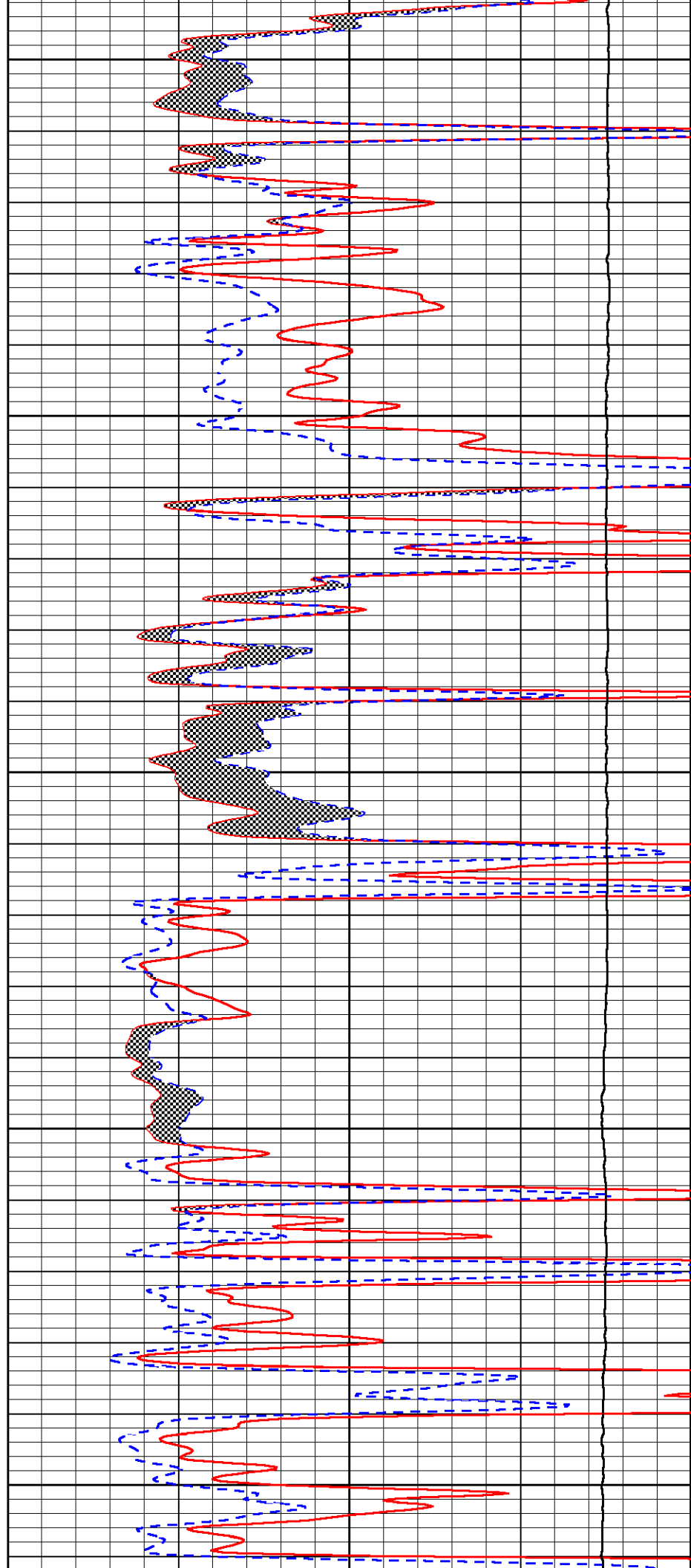
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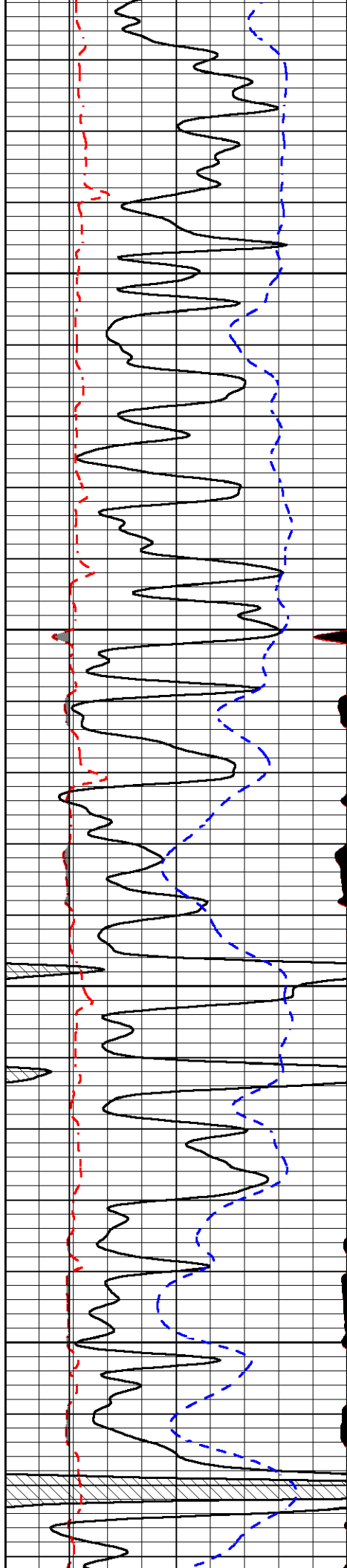
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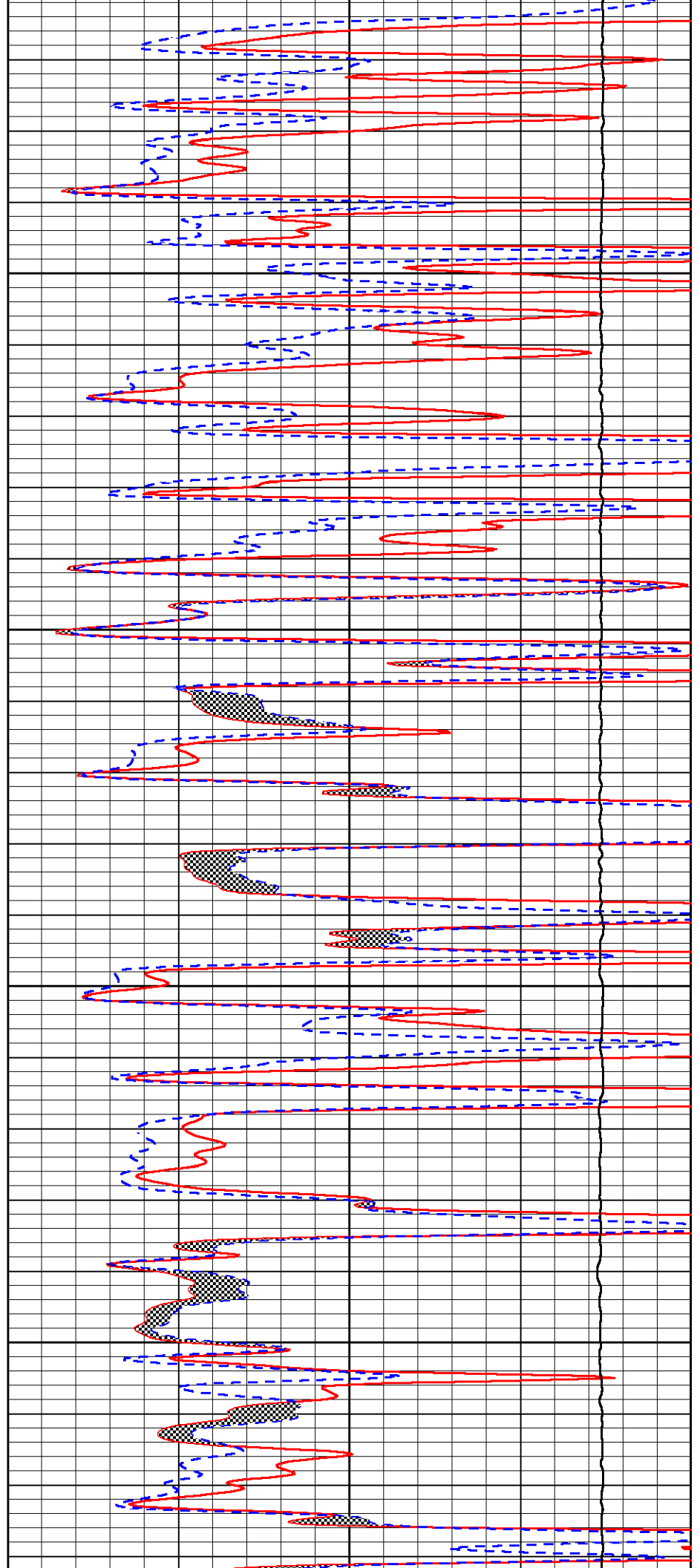


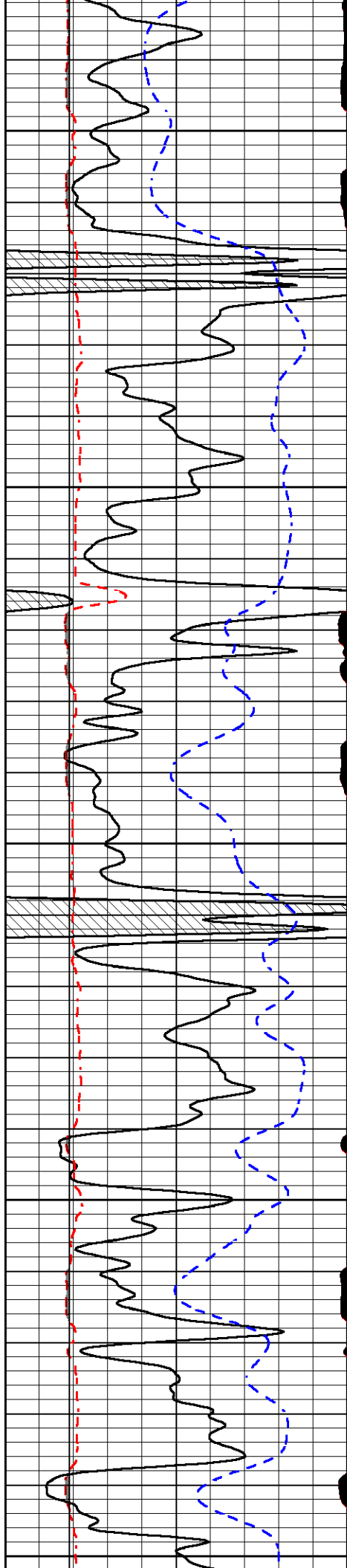
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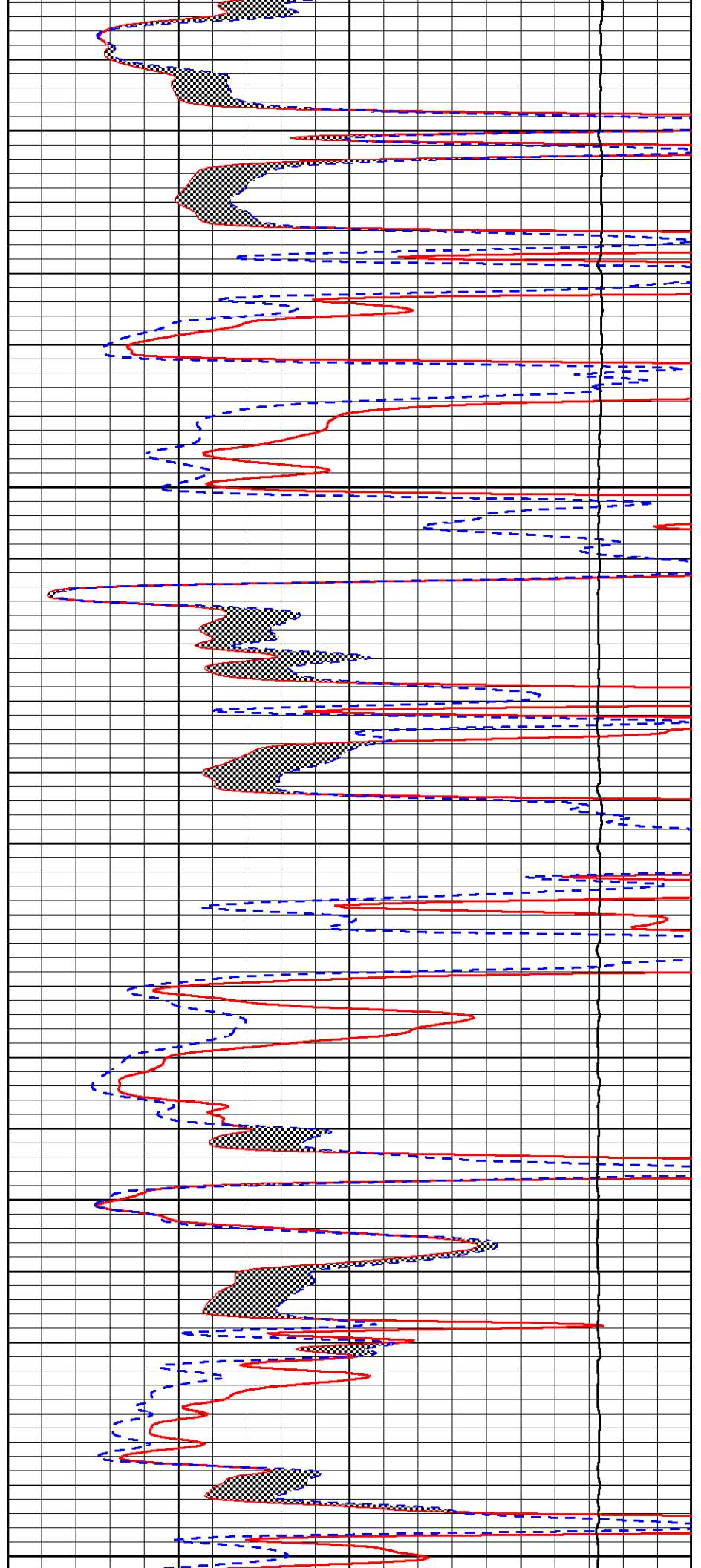
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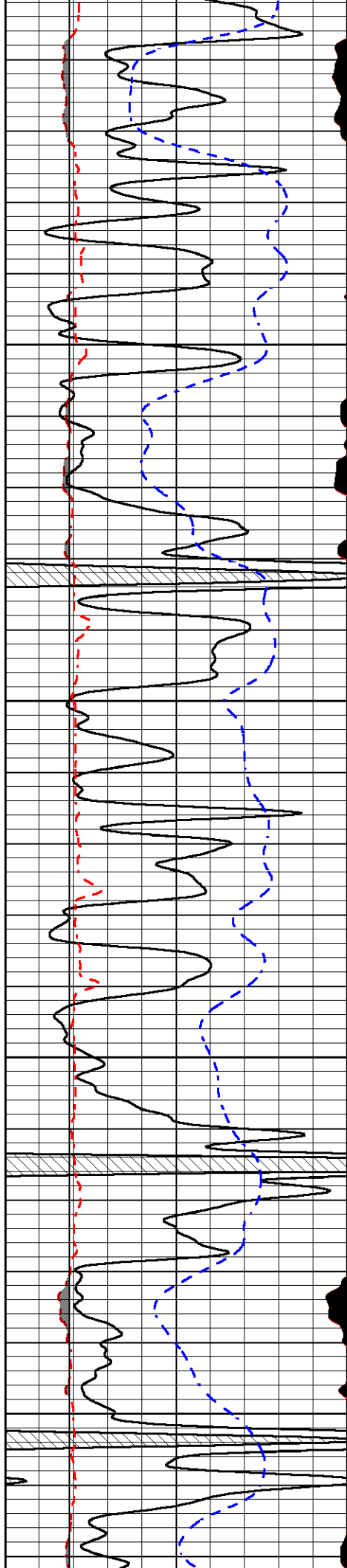
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4300



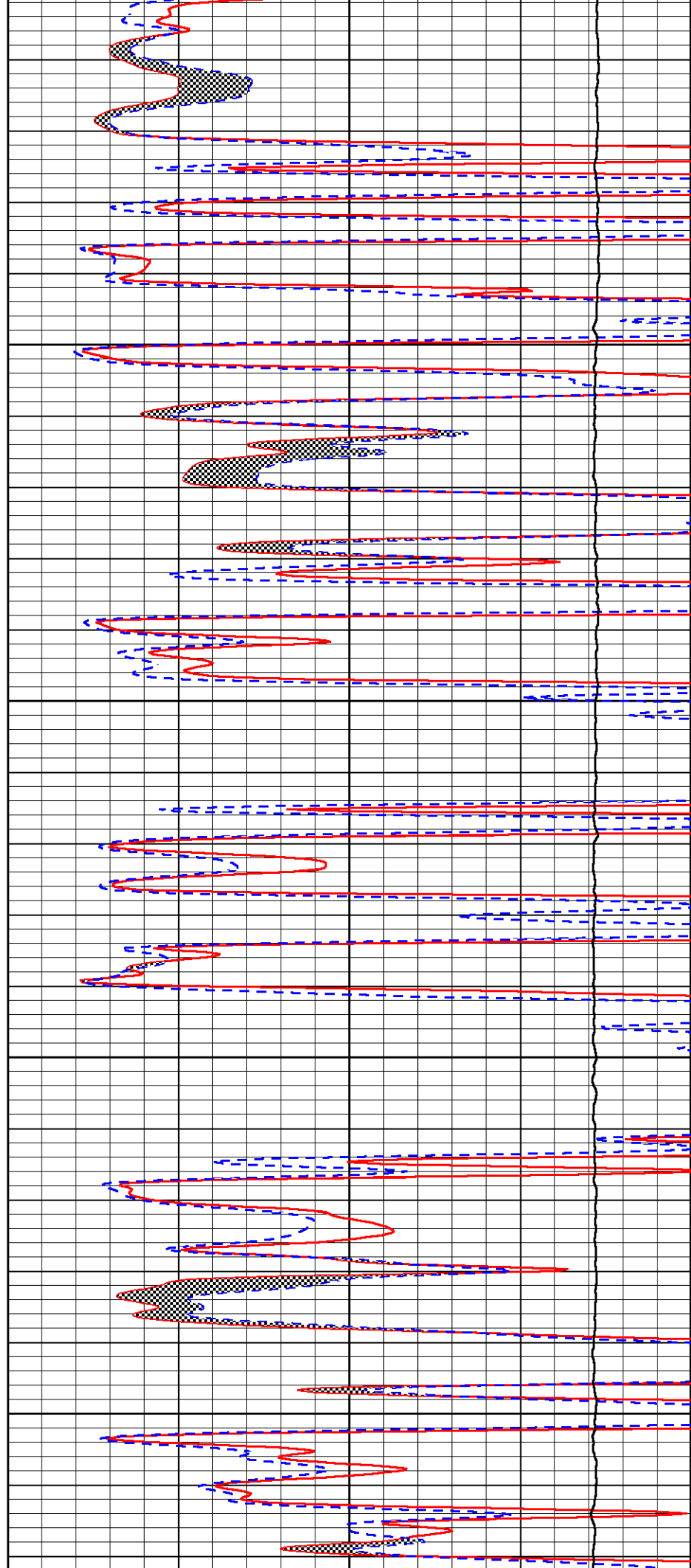


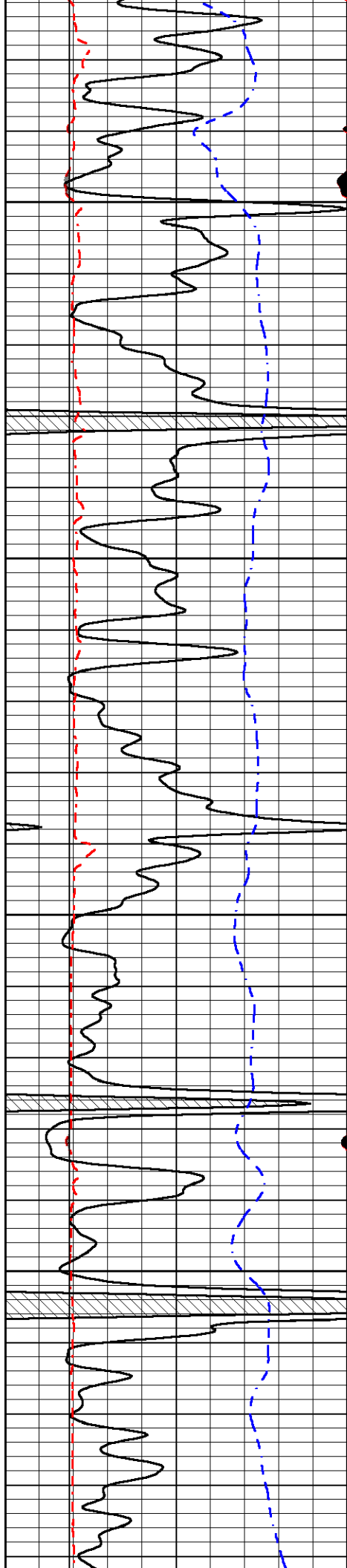
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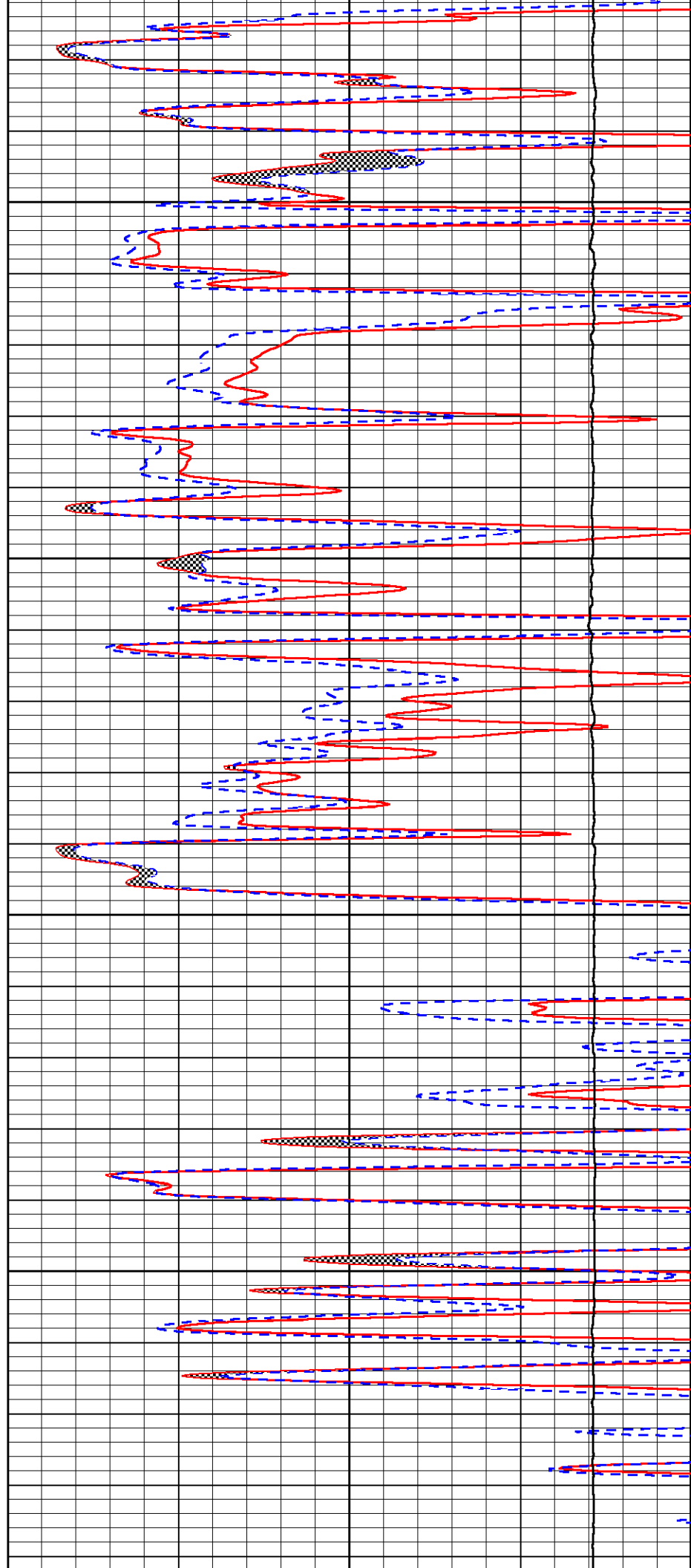


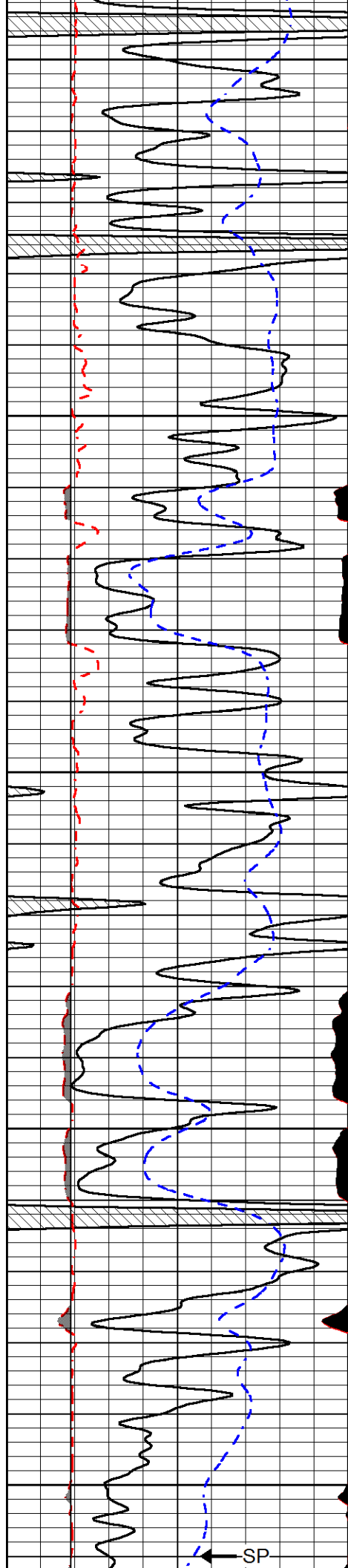
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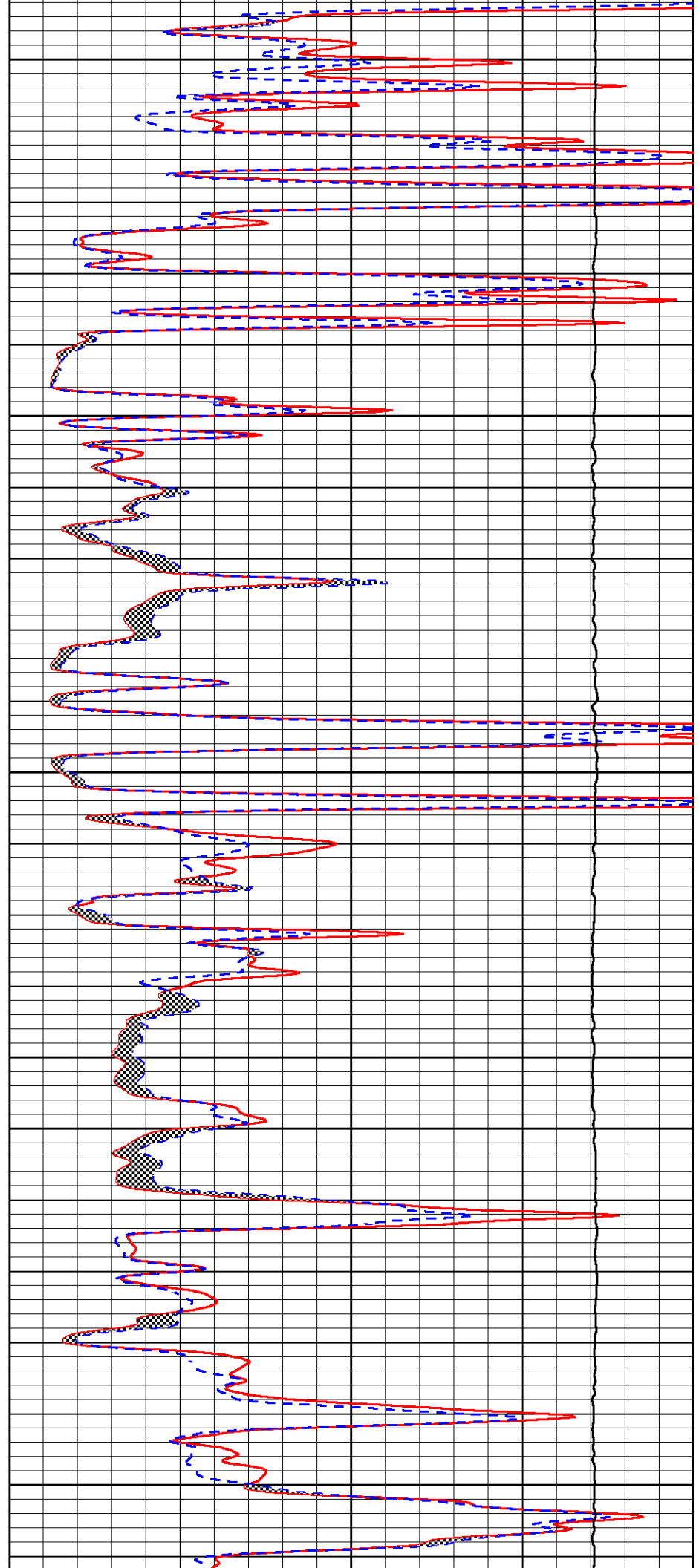
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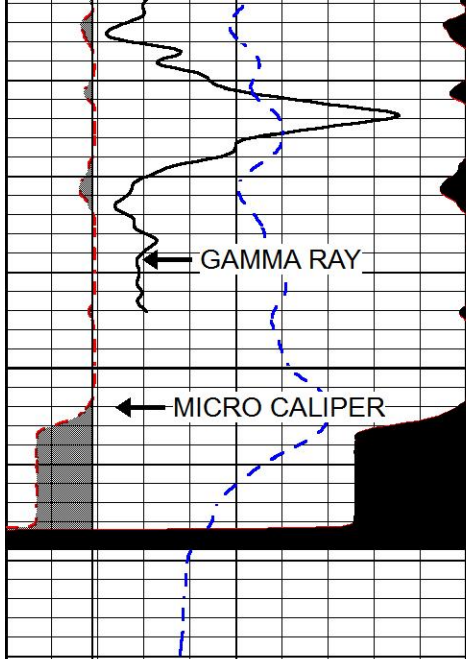
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4850

4900

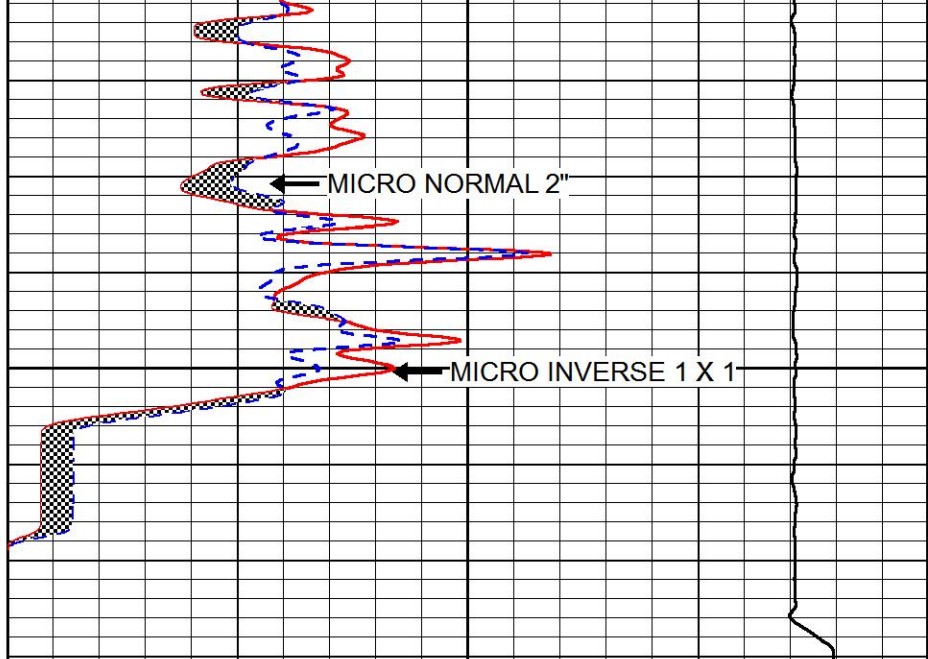
4950





0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

5000



0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

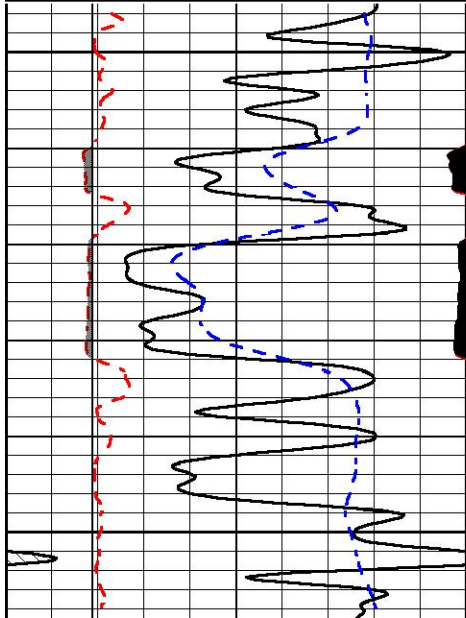


REPEAT SECTION

Database File: gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname: stackml/pass2.1
 Presentation Format: micro
 Dataset Creation: Wed Apr 04 22:18:18 2018
 Charted by: Depth in Feet scaled 1:240

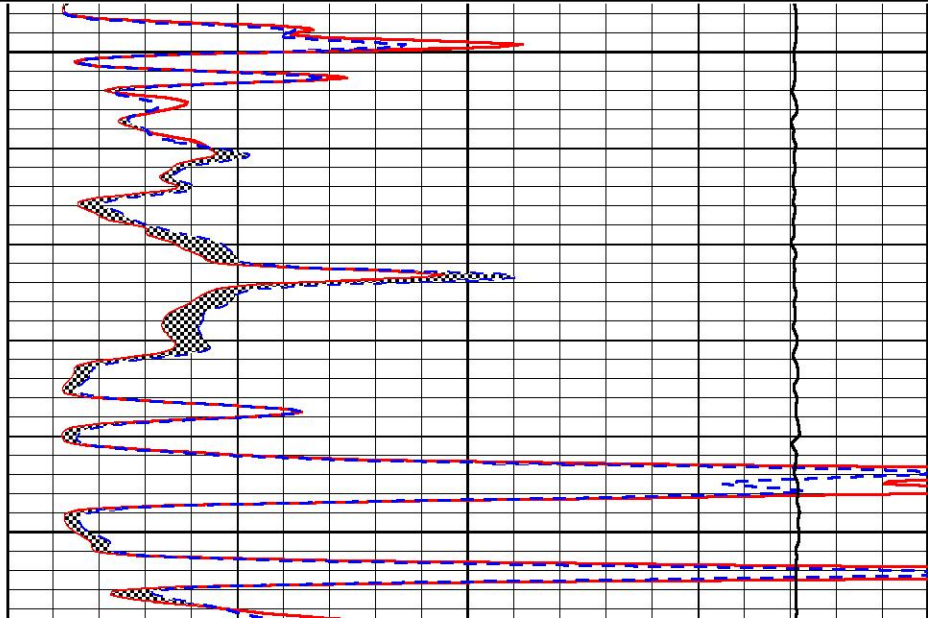
0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

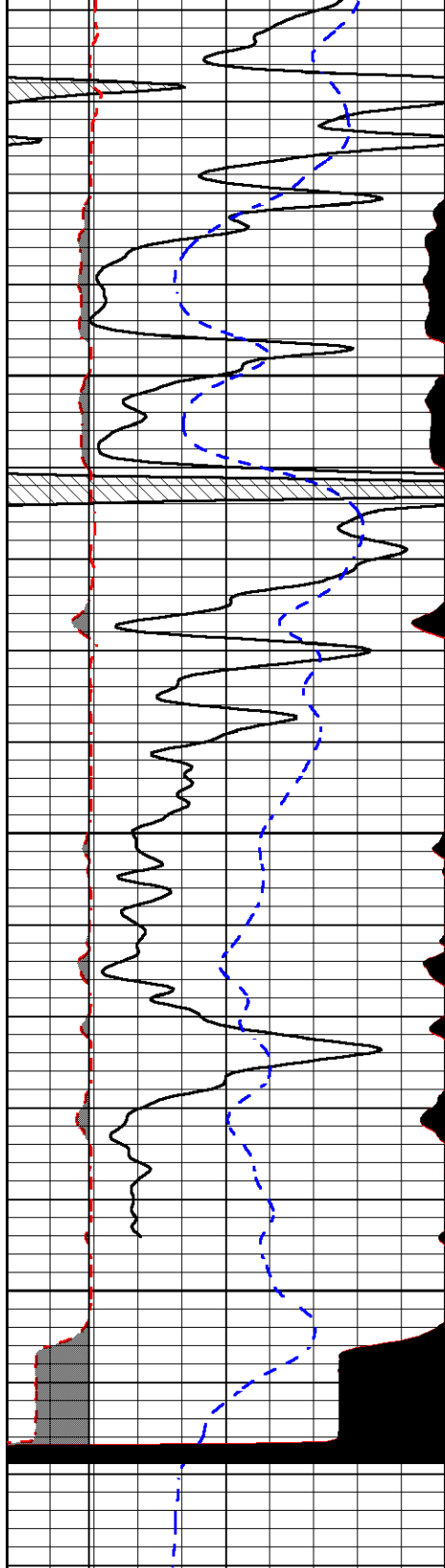
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0



4800

4850



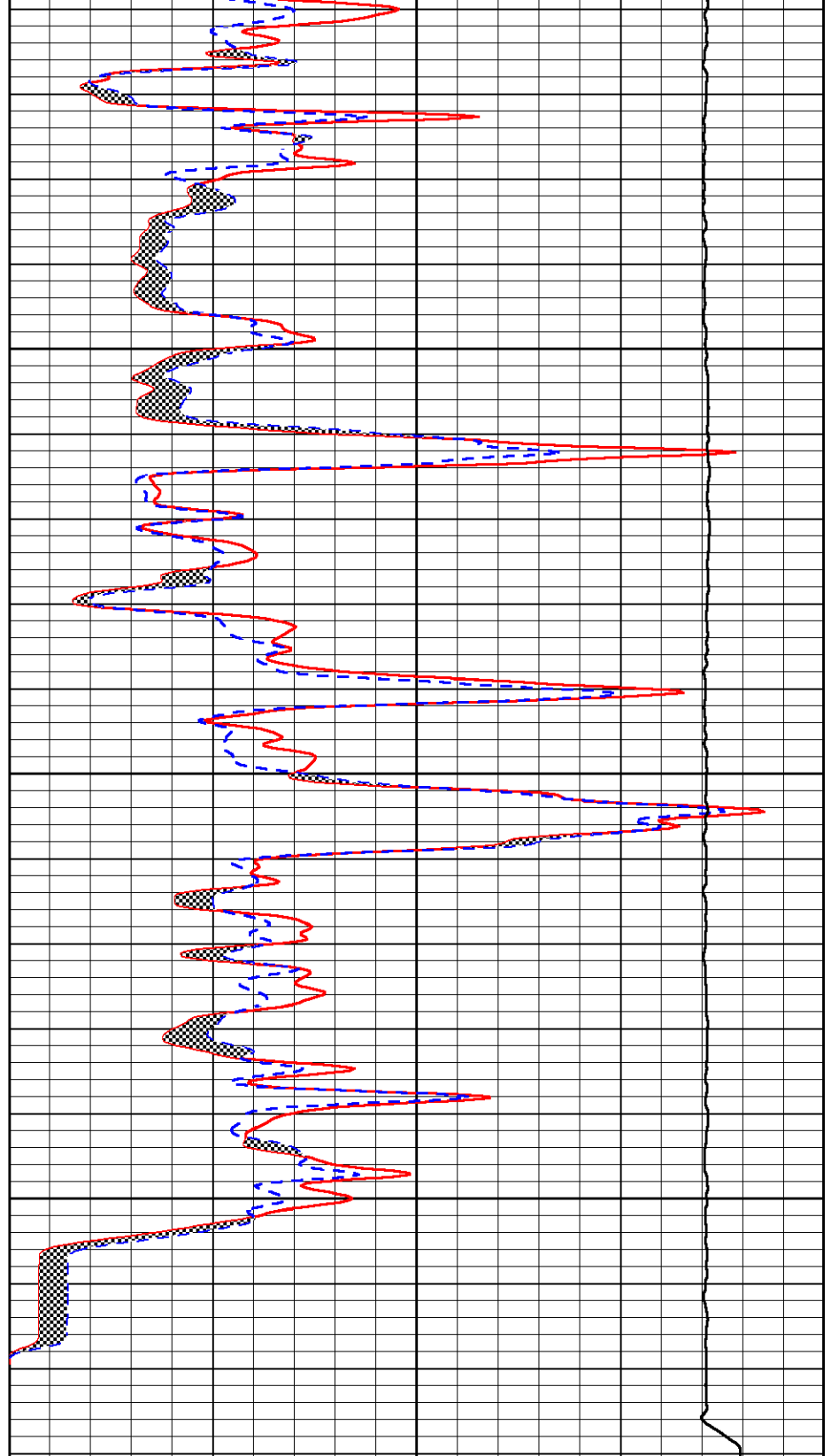


4900

4950

5000

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0



0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

Calibration Report

Database File gulf_exploration_carpenter_trust_1_18.db
 Dataset Pathname stackml/pass3.1
 Dataset Creation Wed Apr 04 22:18:07 2018

Serial-Model:
Calibration Performed:

PSI 978-M&W
Sun Feb 04 11:50:02 2018

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-40.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.400	-37.000

Microlog Calibration Report

Serial-Model:
Performed:

PSI-02-PSI STKBL ML
Fri Jun 23 01:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	24000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	23000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.6000

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:

168-986-M&W
/
Tue Apr 11 17:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.705	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.540		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
Tool Model: M&W
Calibration Performed: Wed Nov 16 11:21:36 2016

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: 89-M&W
Tool Model: M&W
Calibration Performed: Tue Apr 11 17:08:01 2017

Calibrator Value: 1000.0 GAPI

Calibrator Value:	1000.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	6.2	cps
Sensitivity:	0.5200	GAPI/cps



PIONEER
Pioneer Energy Services

Company	GULF EXPLORATION, LLC
Well	CARPENTER TRUST NO. 1-18
Field	WILDCAT
County	THOMAS
State	KANSAS



**Company: Gulf Exploration,
LLC**
Lease: Carpenter Trust #1-18

SEC: 18 TWN: 07 S RNG: 36 W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 16
Elevation: 3364 Sur
Field Name: Wildcat
Pool: Wildcat
Job Number: 137

DATE
April
02
2018

DST #1 **Formation: Lan I&J** **Test Interval: 4413 - 4460'** **Total Depth: 4460'**

Time On: 16:22 04/02 Time Off: 22:00 04/02
Time On Bottom: 18:19 04/02 Time Off Bottom: 20:05 04/02

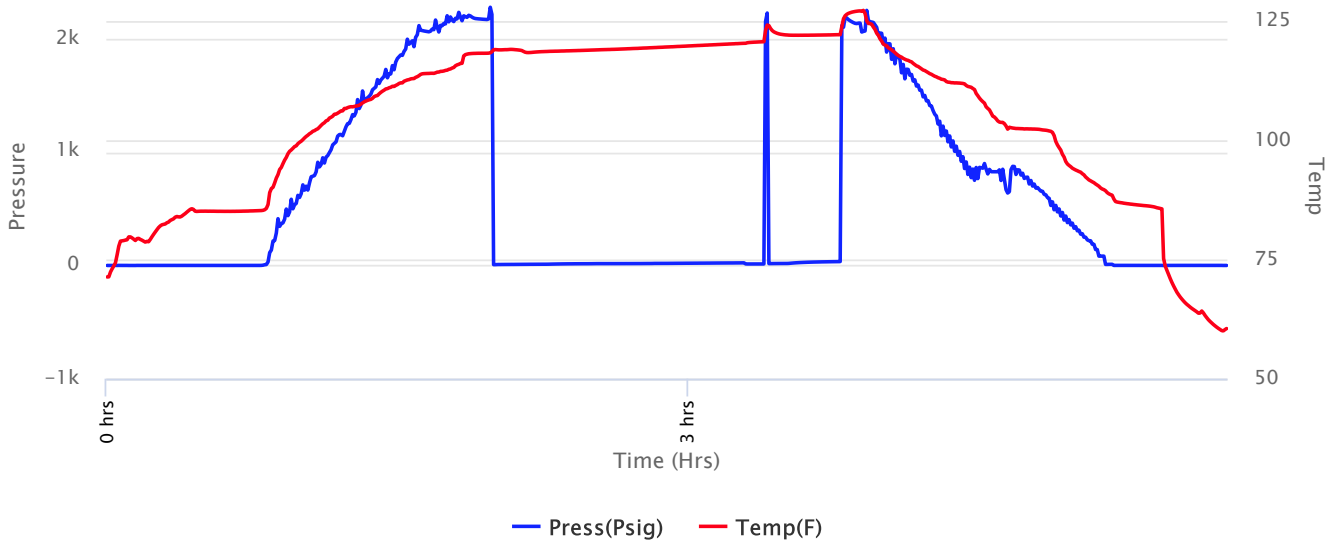
Electronic Volume
Estimate:
0'

1st Open
Minutes: 15
0" at 15 min

1st Close
Minutes: 60
0" at 60 min

2nd Open
Minutes: 10
0" at 10 min

2nd Close
Minutes: 15
0" at 15 min





Company: Gulf Exploration, LLC
Lease: Carpenter Trust #1-18

SEC: 18 TWN: 07 S RNG: 36 W
 County: THOMAS
 State: Kansas
 Drilling Contractor: Murfin Drilling Company, Inc - Rig 16
 Elevation: 3364 Sur
 Field Name: Wildcat
 Pool: Wildcat
 Job Number: 137

DATE
 April
02
 2018

DST #1 **Formation: Lan I&J** **Test Interval: 4413 - 4460'** **Total Depth: 4460'**

Time On: 16:22 04/02 Time Off: 22:00 04/02
 Time On Bottom: 18:19 04/02 Time Off Bottom: 20:05 04/02

Recovered

Foot	BBLs
10	0.0492

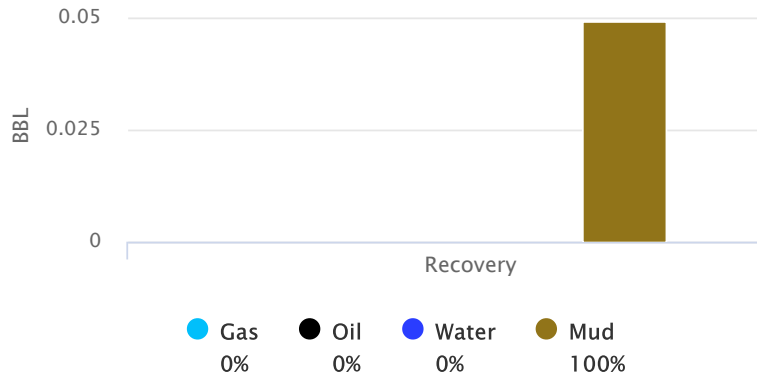
Description of Fluid	Gas %	Oil %	Water %	Mud %
M	0	0	0	100

Total Recovered: 10 ft
 Total Barrels Recovered: 0.0492

Reversed Out
 NO

Initial Hydrostatic Pressure	2175	PSI
Initial Flow	7 to 10	PSI
Initial Closed in Pressure	23	PSI
Final Flow Pressure	13 to 18	PSI
Final Closed in Pressure	34	PSI
Final Hydrostatic Pressure	2160	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: Gulf Exploration,
LLC
Lease: Carpenter Trust #1-18**

SEC: 18 TWN: 07 S RNG: 36 W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 16
Elevation: 3364 Sur
Field Name: Wildcat
Pool: Wildcat
Job Number: 137

DATE April 02 2018

DST #1 Formation: Lan I&J Test Interval: 4413 - Total Depth: 4460'
4460'

Time On: 16:22 04/02 Time Off: 22:00 04/02
Time On Bottom: 18:19 04/02 Time Off Bottom: 20:05 04/02

REMARKS:

IF=Built to .7 died in 9 min
ISI=No Blow
FF=0 in 5 min Flushed tool and 0 in 5 min
FSI=No Blow

Tool Sample=MUD



**Company: Gulf Exploration,
LLC
Lease: Carpenter Trust #1-18**

SEC: 18 TWN: 07 S RNG: 36 W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 16
Elevation: 3364 Sur
Field Name: Wildcat
Pool: Wildcat
Job Number: 137

<p>DATE April 02 2018</p>

DST #1 Formation: Lan I&J Test Interval: 4413 - 4460' Total Depth: 4460'

Time On: 16:22 04/02 Time Off: 22:00 04/02
Time On Bottom: 18:19 04/02 Time Off Bottom: 20:05 04/02

Down Hole Makeup

Heads Up: 18.02 FT	Packer 1: 4408.34 FT
Drill Pipe: 4213.98 FT <i>ID-3 1/2</i>	Packer 2: 4413.34 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4397.76 FT
Collars: 184.81 FT <i>ID-2 1/4</i>	Bottom Recorder: 4458 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 46.66	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 9 FT <i>4 1/2-FH</i>	
Change Over: 1 FT	
Drill Pipe: (in anchor): 31.66 FT <i>ID-3 1/2</i>	
Change Over: 1 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



**Company: Gulf Exploration,
LLC**
Lease: Carpenter Trust #1-18

SEC: 18 TWN: 07 S RNG: 36 W
County: THOMAS
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 16
Elevation: 3364 Sur
Field Name: Wildcat
Pool: Wildcat
Job Number: 137

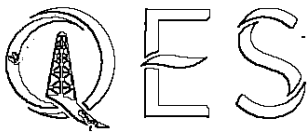
DATE April 02 2018

DST #1 Formation: Lan I&J Test Interval: 4413 - Total Depth: 4460'
4460'

Time On: 16:22 04/02 Time Off: 22:00 04/02
Time On Bottom: 18:19 04/02 Time Off Bottom: 20:05 04/02

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 56 **Filtrate:** 8.0 **Chlorides:** 2900 ppm



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

10342 / 10233

TICKET NUMBER 55112
LOCATION Oakley KS
FOREMAN Miles Shaw
Invoice # 812799

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-29-18	3140	Carpenter Trust 1-18	-18	7 S	36W	Thomas
CUSTOMER Gulf			Brewster 15 N40CR V 1/2W N. into			
MAILING ADDRESS 9701 N. Broadway Ext.			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Oklahoma City			753	Tewis		
STATE OK			772/F-127	Keith C		
ZIP CODE 73114						

JOB TYPE Surface HOLE SIZE 12.25" HOLE DEPTH 303' CASING SIZE & WEIGHT 8 5/8" - 23#
CASING DEPTH 303' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.8 SLURRY VOL 1.36 WATER gal/sk _____ CEMENT LEFT in CASING 20'
DISPLACEMENT 17 3/4 b/s DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and Rig up on Martin drilling Rig #7 Circulate casing
Mix 225 ss Surface blend II Class A cement w/ 3% calcium 28 gal displace 17 3/4 b/s
Water shut in cement did Circulate cellar only

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	45	MILEAGE	7.15	321.75
CF071	10.58 Ton	Ton mileage delivery	1.75	833.17
CC5871	2255K	Surface blend II	24.00	5400.00
CP 8556	2	8 5/8" Centralizers	110.00	220.00
			Subtotal:	7924.92
			less 30% discount	2377.47
			Subtotal:	5547.45
			SALES TAX	314.72
			ESTIMATED TOTAL	5862.17

Flavin 3737

AUTHORIZATION

TITLE Gulf

DATE

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

10405
10301

TICKET NUMBER 55115

LOCATION Oakley KS

FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 812867

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4/15/18	3140	Carrener # 1-18	18	7 S	36 W	Thomas
CUSTOMER Gulf Exploration		Brusher water v w + v into	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 9701 N. Broadway Ext.			753	Travis W		
CITY Oklahoma City STATE OK ZIP CODE 73114			772 T127	Neil W		

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH 5025' CASING SIZE & WEIGHT
CASING DEPTH DRILL PIPE 4 1/2" TUBING OTHER
SLURRY WEIGHT 13.8 SLURRY VOL 1.4 WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting, rig up on Murfin Drilling Rig # 7. Plus ss ordered.

- 1st - 50 Sx at 3010'
- 2nd - 100 Sx at 2015' 255 Sx 60/40 490 1/4 f/o
- 3rd - 50 Sx at 355'
- 4th - 10 Sx at 40' with wiper plug
- RH - 30 Sx
- MV - 15 Sx

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0452	1	PUMP CHARGE	2300.00	2300.00
CE 0502	45	MILEAGE	7.15	321.75
CE 0710	162.5 Tons	Ton Mileage	1.75	866.25
CC 5829	255 Sx	Lite-weight blend V	16.00	4080.00
CC 6075	64 Lbs.	Cellofibre	3.00	192.00
CC 5328	100 Lbs	Salt	N/A	N/A
CP 8228	1	8 5/8 wooden Plug	165.00	165.00
			Sub total	7925.00
			30% dis.	2377.50
			New Total	5547.50
			SALES TAX	248.47
			ESTIMATED TOTAL	5795.98

Flavin 3737 AUTHORIZATION Kelly Wilson TITLE Pusher DATE 4-5-18

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.