KOLAR Document ID: 1384812

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 # 4058
Name: American Warrior, Inc.
Address 1: PO BOX 399
Address 2:
City: GARDEN CITY State: KS Zip: 67846 + ____
Contact Person: Octavio D Morales
Phone: (620) 275-2963
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Jason Alm
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.)*: DRY HOLE

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 #:

1/21/2018 Spud Date or Recompletion Date
1/28/2018 Date Reached TD
1/28/2018 Completion Date or Recompletion Date

API No.: 15-109-21533-00-00
Spot Description:
SW - SE - NW - SW Sec. 35 Twp. 13 S. R. 36 ☐ East ☑ West
1370 Feet from ☐ North / ☑ South Line of Section
800 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☑ SW
GPS Location: Lat: (e.g. xx.xxxxx) , Long: (e.g. -xxx.xxxxx)
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Logan
Lease Name: JAY Well #: 2-35
Field Name:
Producing Formation: DRY HOLE
Elevation: Ground: 3124 Kelly Bushing: 3134
Total Vertical Depth: 4770 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 221 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: 14000 ppm Fluid volume: 80 bbls
Dewatering method used: Evaporated
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:** Karen Ritter **Date:** 02/01/2018

Operator Name: American Warrior, Inc. Lease Name: JAY Well #: 2-35

Sec. 35 Twp. 13 S. R. 36 ☐ East ☑ West County: Logan

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 *(Attach Additional Sheets)*	☐ Yes	☑ No	
Samples Sent to Geological Survey	☐ Yes	☑ No	
Cores Taken	☐ Yes	☑ No	
Electric Log Run	☑ Yes	☐ No	
Geologist Report / Mud Logs	☑ Yes	☐ No	

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	221	common	175	2%gel3%cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	American Warrior, Inc.
Well Name	JAY 2-35
Doc ID	1384812

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	221	common	175	2%gel3%cc

Geological Report

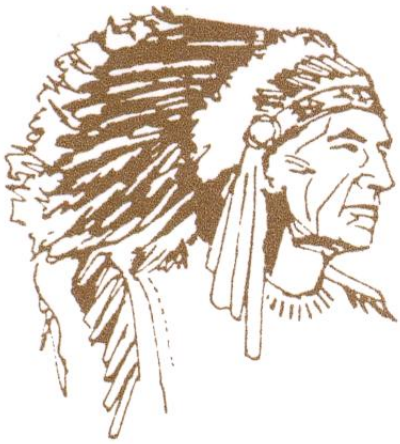
American Warrior, Inc.

Jay #2-35

1331’ FSL & 806’ FWL

Sec. 35, T13s, R36w

Logan County, Kansas



American Warrior, Inc.

General Data

Well Data:	American Warrior, Inc. Jay #2-35 1331’ FSL & 806’ FWL Sec. 35, T13s, R36w Logan County, Kansas API # 15-109-21533-00-00
Drilling Contractor:	Discovery Rig #1
Geologist:	Kevin Timson
Spud Date:	January 20, 2018
Completion Date:	January 27, 2018
Elevation	3124’ G.L. 3132’ K.B.
Directions:	From Russell Springs, KS. Go SW on Hwy 25 6 miles. Go South on lease road.
Casing:	211' 8 5/8" #23 Surface Casing
Samples:	3400’ to RTD 10’ Wet & Dry
Drilling Time:	3400’ to RTD
Electric Logs:	Pioneer Energy Services “D. Schmidt” Full Sweep
Drillstem Tests:	None
Problems:	None

Formation Tops

Jay #2-35

Sec. 35, T13s, R36w

1331’ FSL & 806’ FWL

Anhydrite	**2422' +710**
Base	**2507' +625**
Heebner	**3883' -751**
Lansing	**3938' -806**
Stark	**4194' -1062**
BKc	**4292' -1160**
Marmaton	**4333' -1201**
Pawnee	**4395' -1263**
Fort Scott	**4438' -1306**
Cherokee	**4484' -1352**
Morrow	**4610' -1478**
St. Gen	**4707' -1575**
RTD	**4770' -1638**
LTD	**4772' -1640**

Sample Zone Descriptions

Lansing E **(4430', -1298):** **Not Tested**

Ls. Tan. Sub crystalline. Poor oomoldic porosity. Poor vuggy porosity. Poor dead oil stain. No saturation. No odor. No gas kick.

Morrow Sand **(4627', -1495):** **Not Tested**

Ss. Gray. Glauconitic. Medium to coarse grained. Sub well rounded. Fair sorted. Poorly cemented. Barren. No gas kick.

Structural Comparison

Formation	**American Warrior, Inc. Jay #2-35 Sec. 35, T13s, R36w 1131' FSL & 806' FWL**		American Warrior, Inc. Sneed-Lamb #1-24 Sec. 24, T13s, R36w 878' FNL & 1235' FWL		American Warrior, Inc. Fairchild #1-17 Sec 17, T14s, R35w 1506' FNL & 1036' FEL
Heebner	**3883' -751**	**+10**	3715' -761	**+25**	4003' -776
Lansing	**3938' -806**	**+2**	3762' -808	**+24**	4057' -830
Stark	**4194' -1062**	**+3**	4019' -1065	**+24**	4313' -1086
BKC	**4292' -1160**	**+2**	4116' -1162	**+27**	4414' -1187
Marmaton	**4333' -1201**	**+2**	4157' -1203	**+21**	4449' -1222
Pawnee	**4395' -1263**	**+3**	4220' -1266	**+32**	4522' -1295
Fort Scott	**4438' -1306**	**-4**	4256' -1302	**+29**	4562' -1335
Cherokee	**4484' -1352**	**-1**	4305' -1351	**+31**	4610' -1383
Morrow	**4610' -1478**	**-3**	4429' -1475	**+23**	4728' -1501
St. Gen	**4707' -1575**	**-32**	4497' -1543	**-10**	4792' -1565

Summary

The location for the Jay #2-35 well was found via 3-D seismic survey. The new well ran structurally as expected. No drill stem tests were conducted, due to lack of shows. After all the gathered data had been examined, the decision was made to plug and abandon the Jay #2-35 well.

PIONEER
Pioneer Energy Services

BOREHOLE COMPENSATED SONIC LOG

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN State KANSAS

Location: API # : 15-109-21533-00-00
1331' FSL & 806' FWL
SEC 35 TWP 13S RGE 36W

Other Services
CNL/CDL
MEL/DIL

Elevation
K.B. 3132'
D.F. N/A
G.L. 3124'

Company	AMERICAN WARRIOR, INC.
Well	JAY #2-35
Field	WILDCAT
County	LOGAN
State	KANSAS
Location:	1331' FSL & 806' FWL SEC 35 TWP 13S RGE 36W
API # :	15-109-21533-00-00
Other Services	CNL/CDL MEL/DIL
Elevation	K.B. 3132' D.F. N/A G.L. 3124'

Permanent Datum	GROUND LEVEL
Elevation	3124'
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING

Date	01/27/2018
Run Number	TWO
Type Log	BHCS
Depth Driller	4770'
Depth Logger	4772'
Bottom Logged Interval	4760'
Top Logged Interval	200'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	6000
Density	9.2
Level	FULL
Max. Rec. Temp. F	124
Operating Rig Time	5 HOURS
Equipment -- Location	91 HAYS
Recorded By	D. SCHMIDT
Witnessed By	KEVIN TIMSON

Borehole Record

Run No.	Bit	From	To
ONE	12.250"	0'	221'
TWO	7.875"	221'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0'	221'

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

RUSSELL SPRINGS,
1 SOUTH, 6 WEST,
SOUTH INTO ABOUT A MILE (KEEP RIGHT AT THE V)

Log Measured From: KELLY BUSHING 8 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: D. SCHMIDT	Primary Witness: KEVIN TIMSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

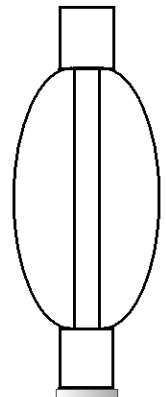
Log Variables

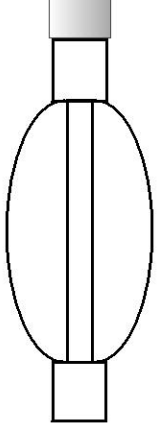
DatabaseC:\ProgramData\Warrior\Data\americanwarrior_jay#2-35.db
Dataset field/well/STKML/pass4.1/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-210	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	30	0	5.5	0	4771	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			CENT-PENGO (3-PENGO)	5.50	3.00	70.00
WVF4	13.50		SLT-PENGO (0001)	16.00	3.50	300.00
WVF1	13.50					
WVF3	11.50					
WVF2	11.50					



CENT-PENGO (4-PENGO)	5.50	3.00	70.00

Dataset: americanwarrior_jay#2-35.db: field/well/SON/pass2
Total length: 27.00 ft
Total weight: 440.00 lb
O.D.: 3.50 in

PIONEER
Pioneer Energy Services

MAIN PASS

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass4.1
Presentation Format	sonic
Dataset Creation	Sat Jan 27 08:05:24 2018
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft) 40
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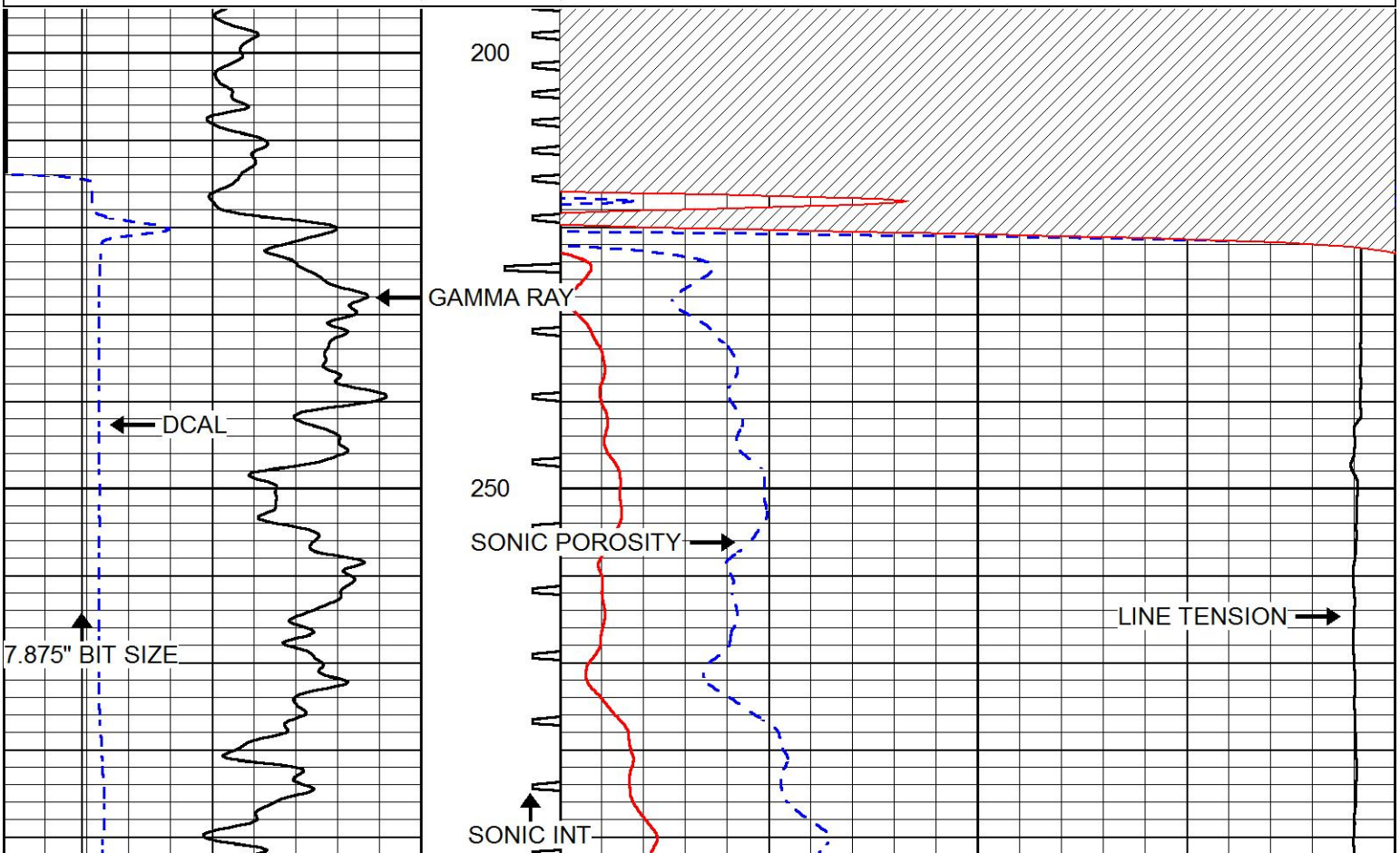
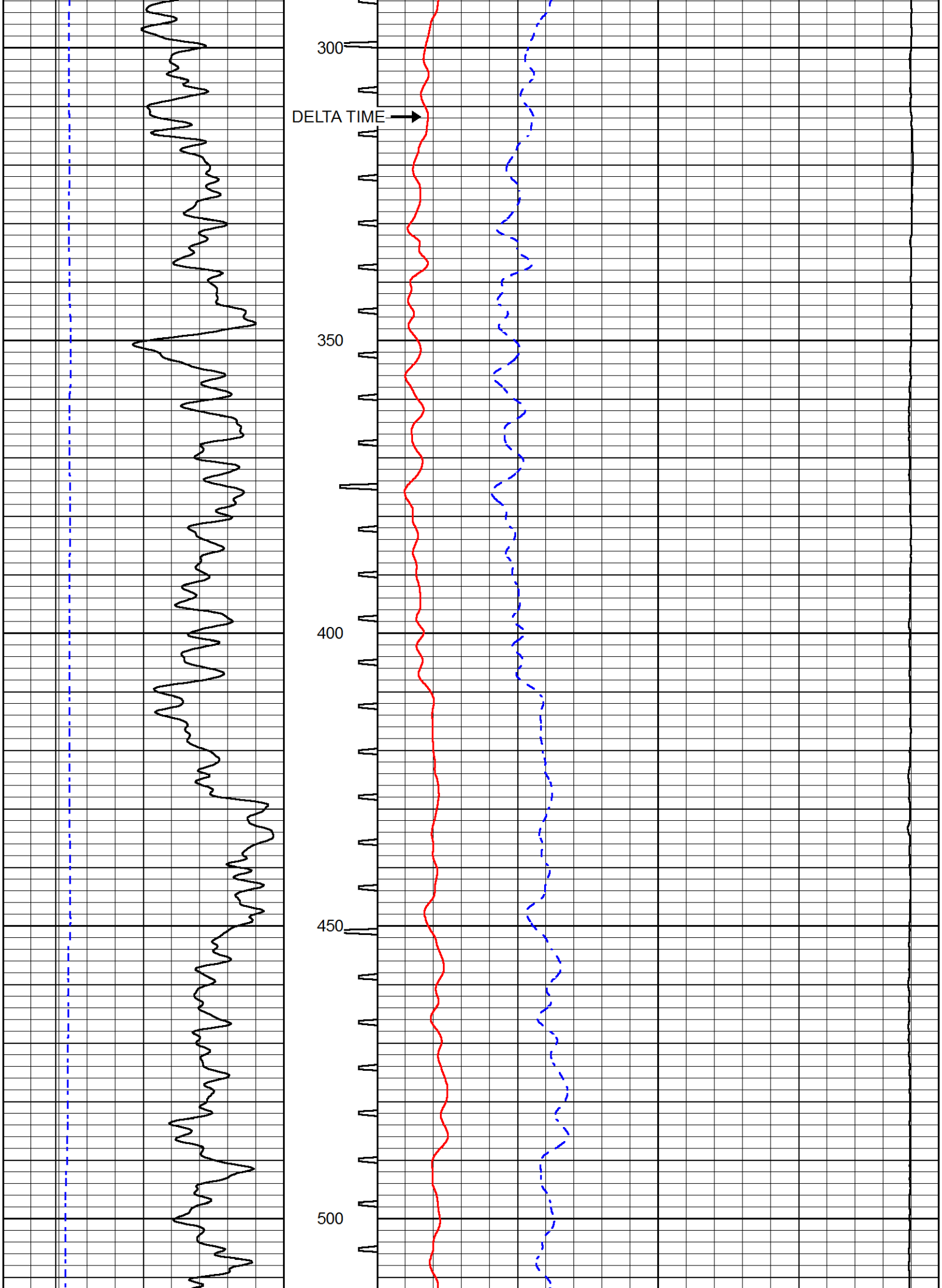
6	DCAL (in)	16		15000	LTEN (lb) (lb) 0

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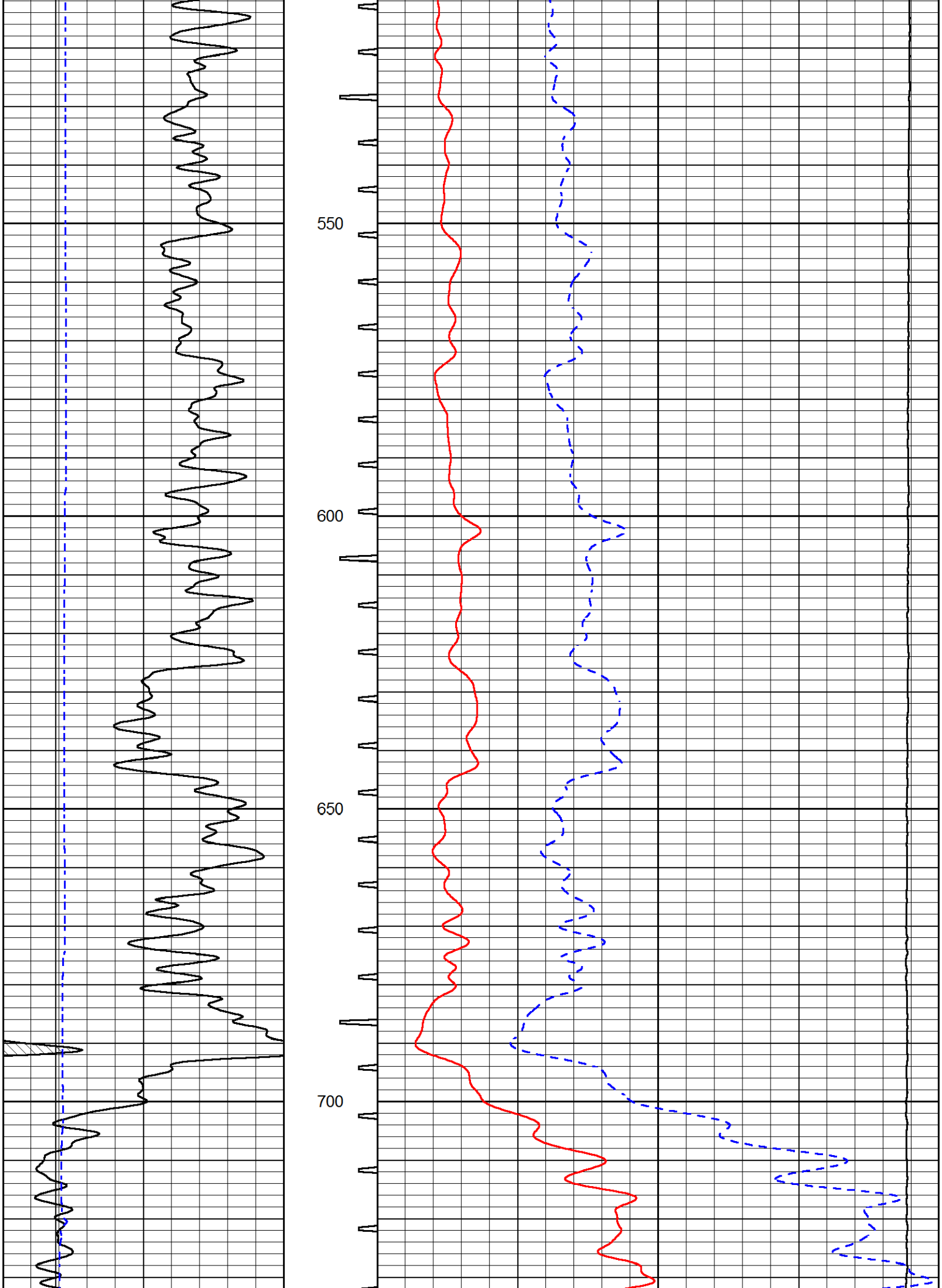
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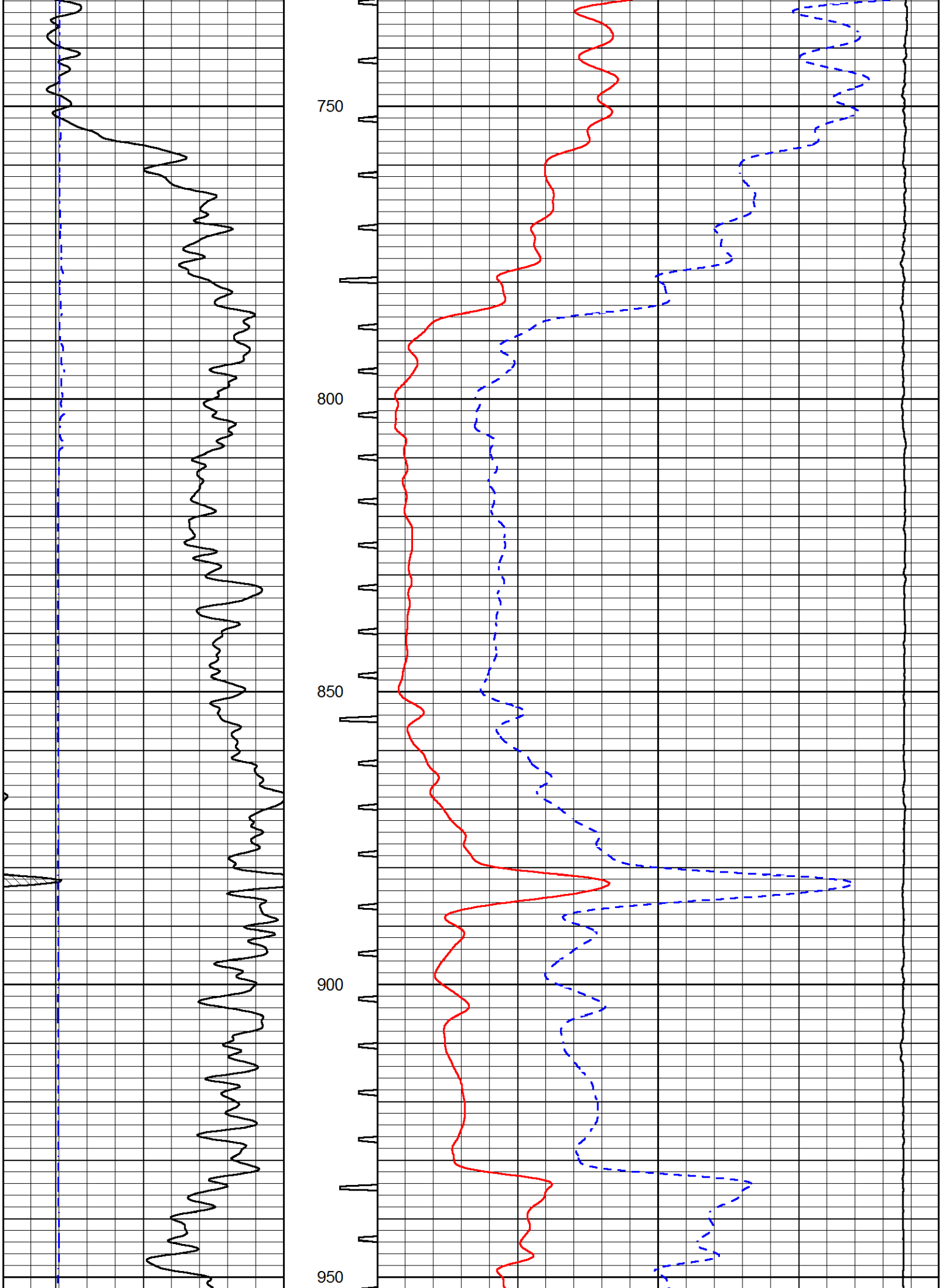
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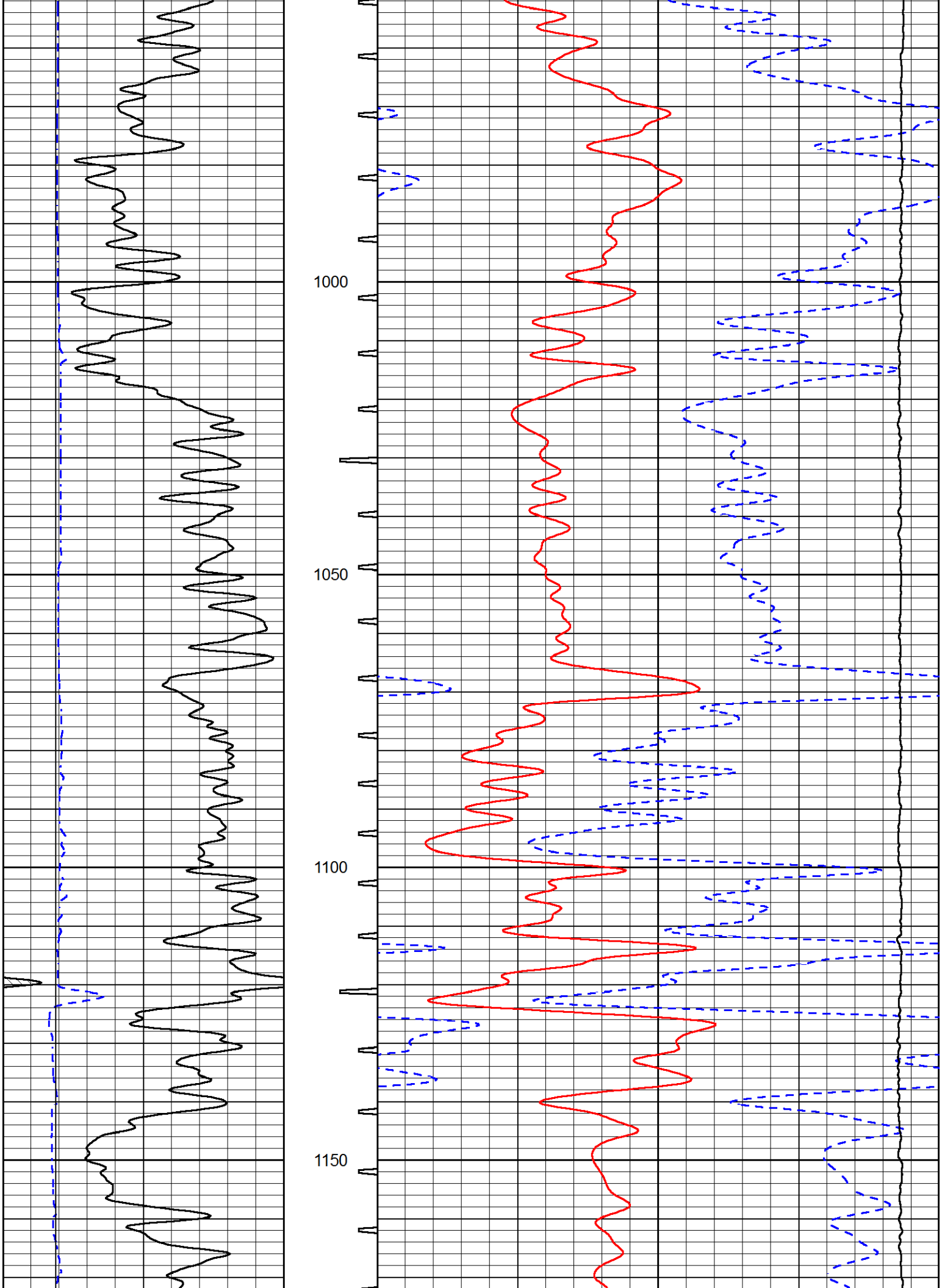
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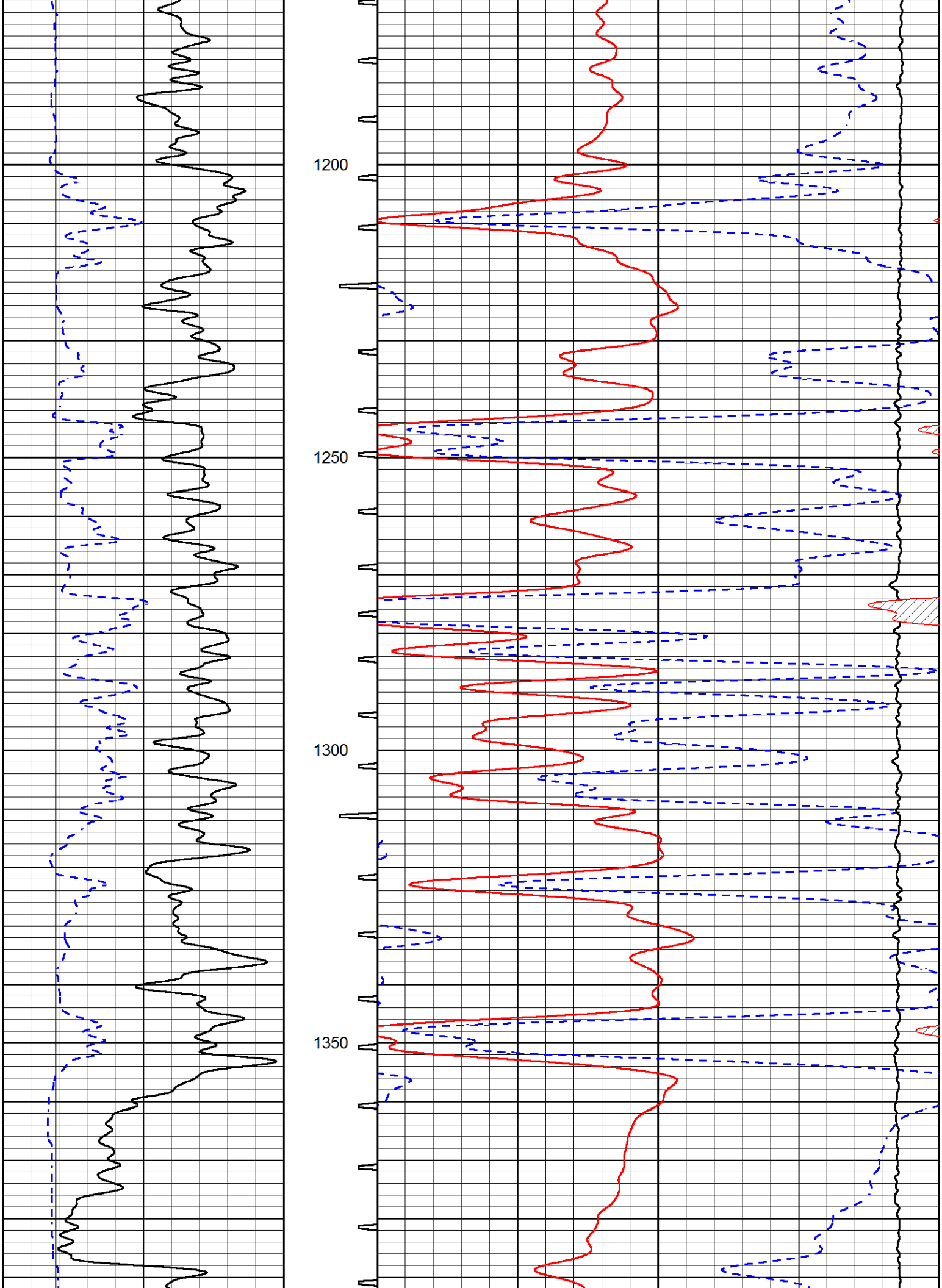
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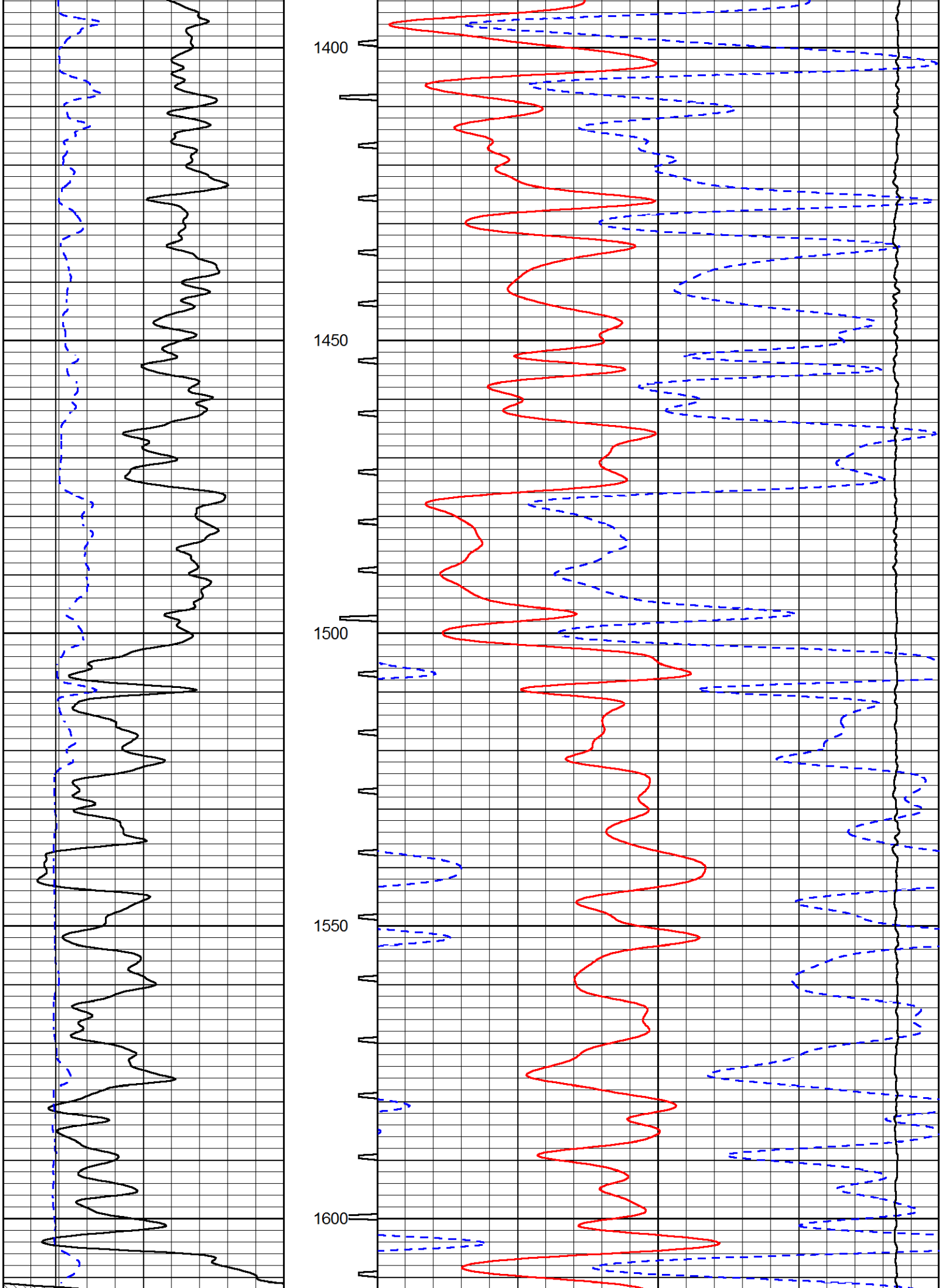
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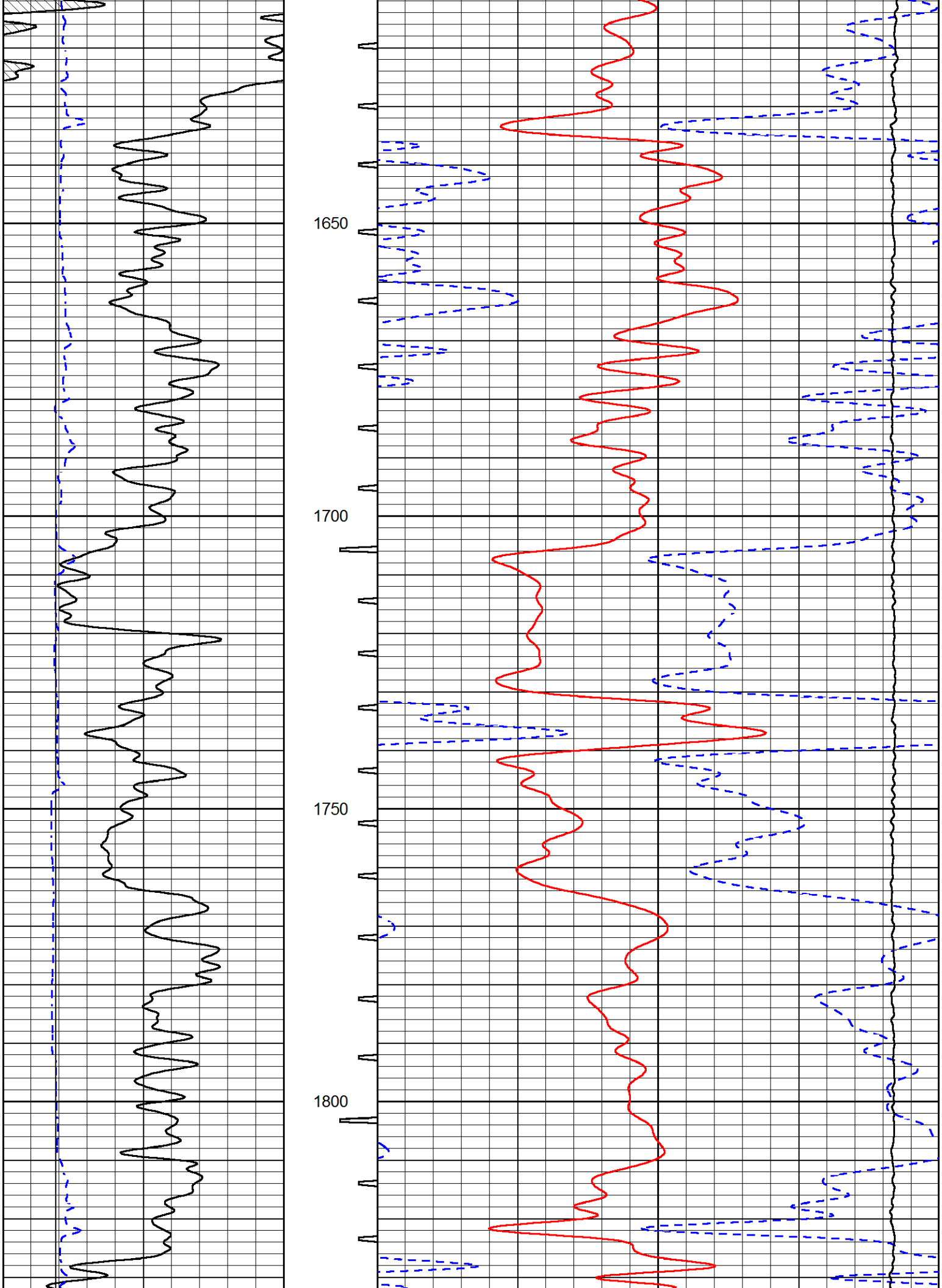
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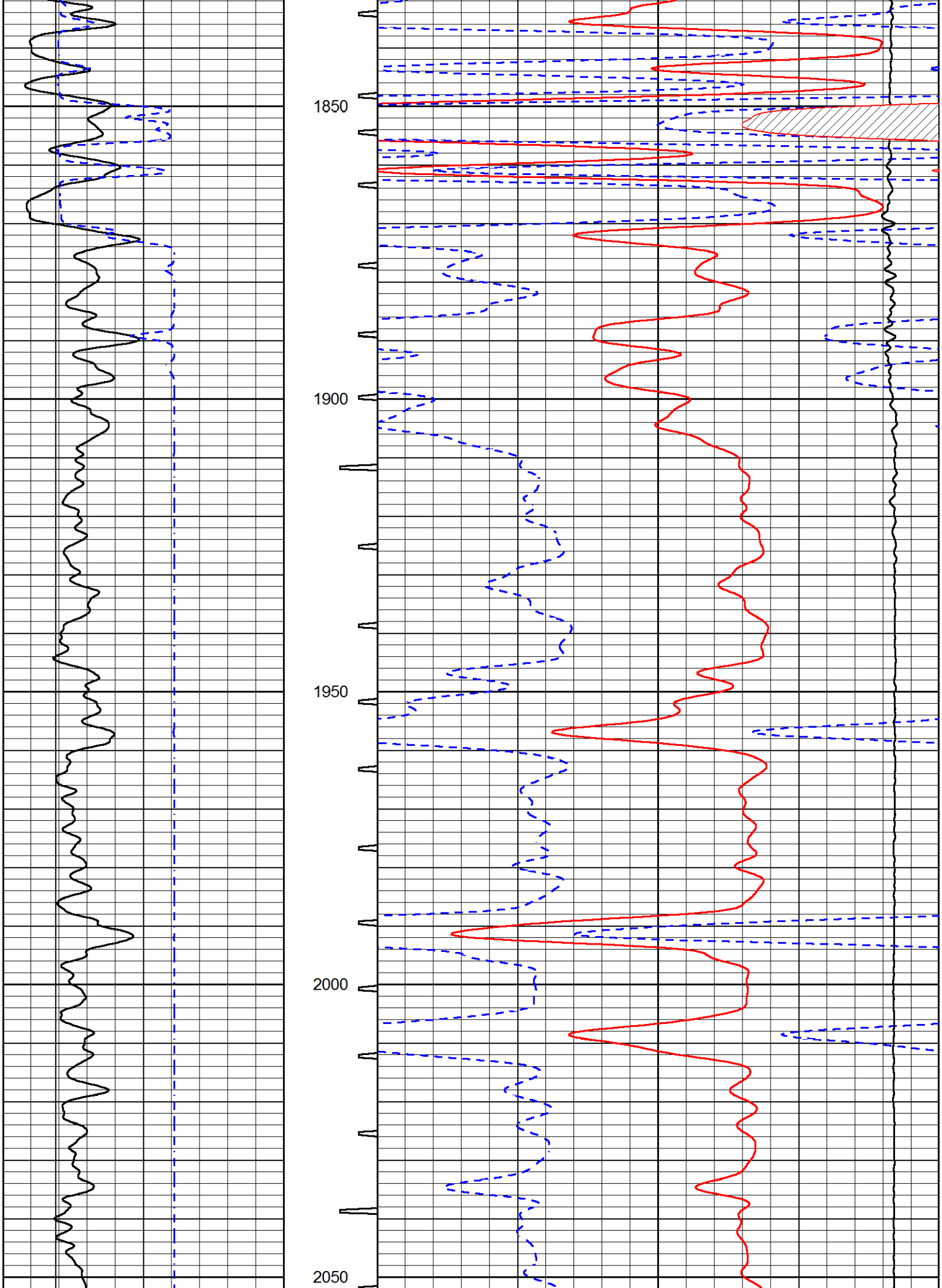
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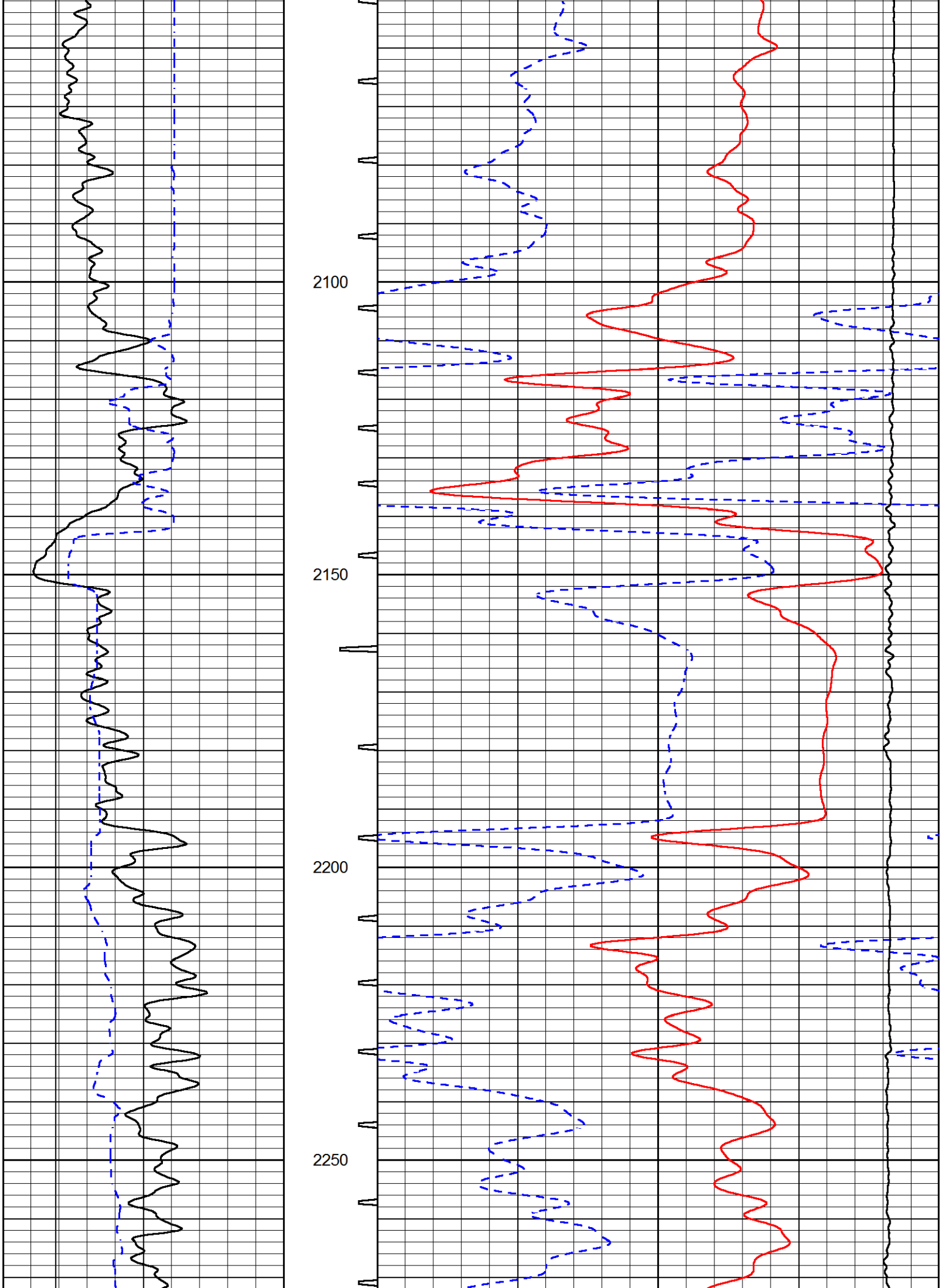
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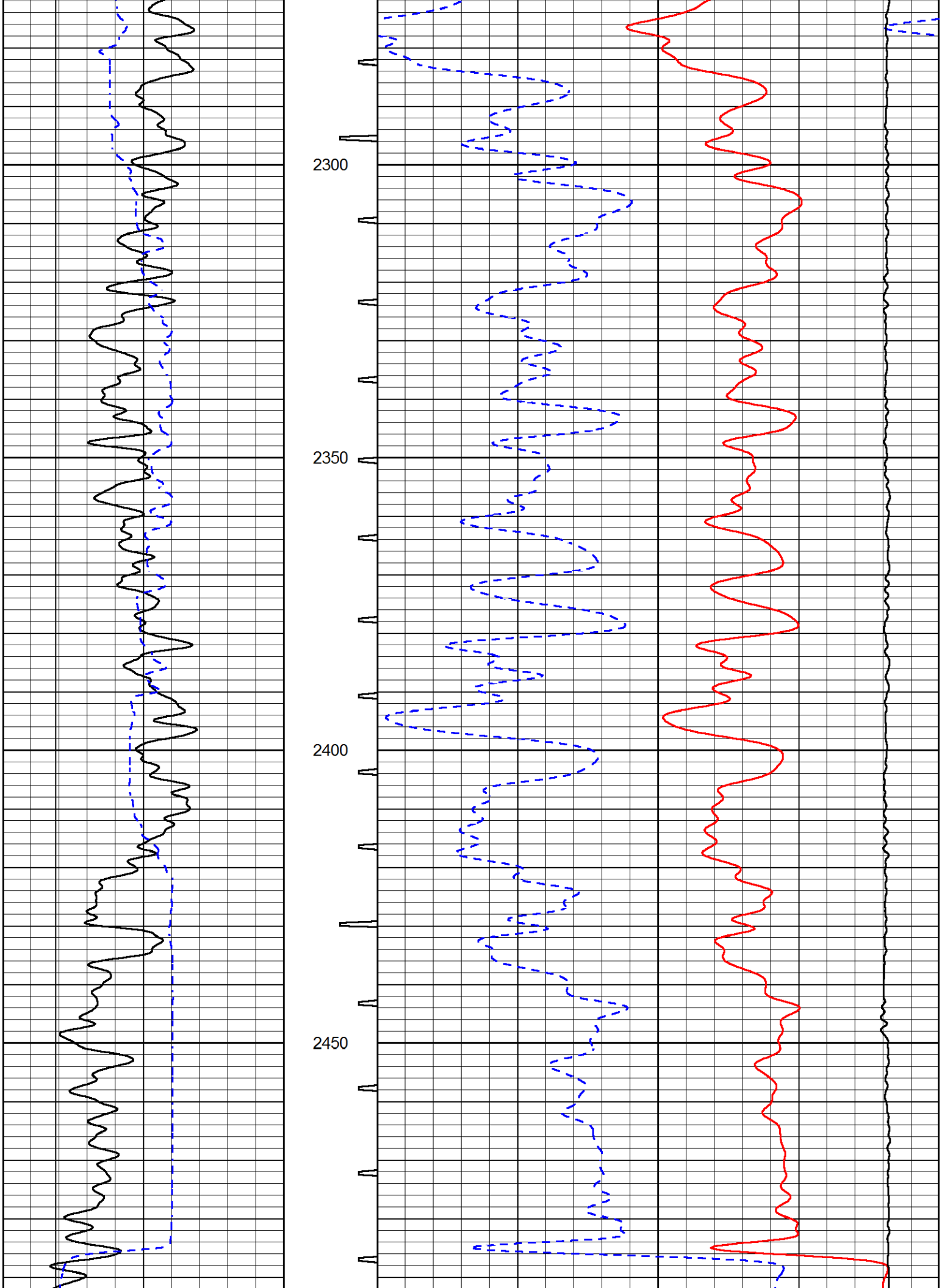
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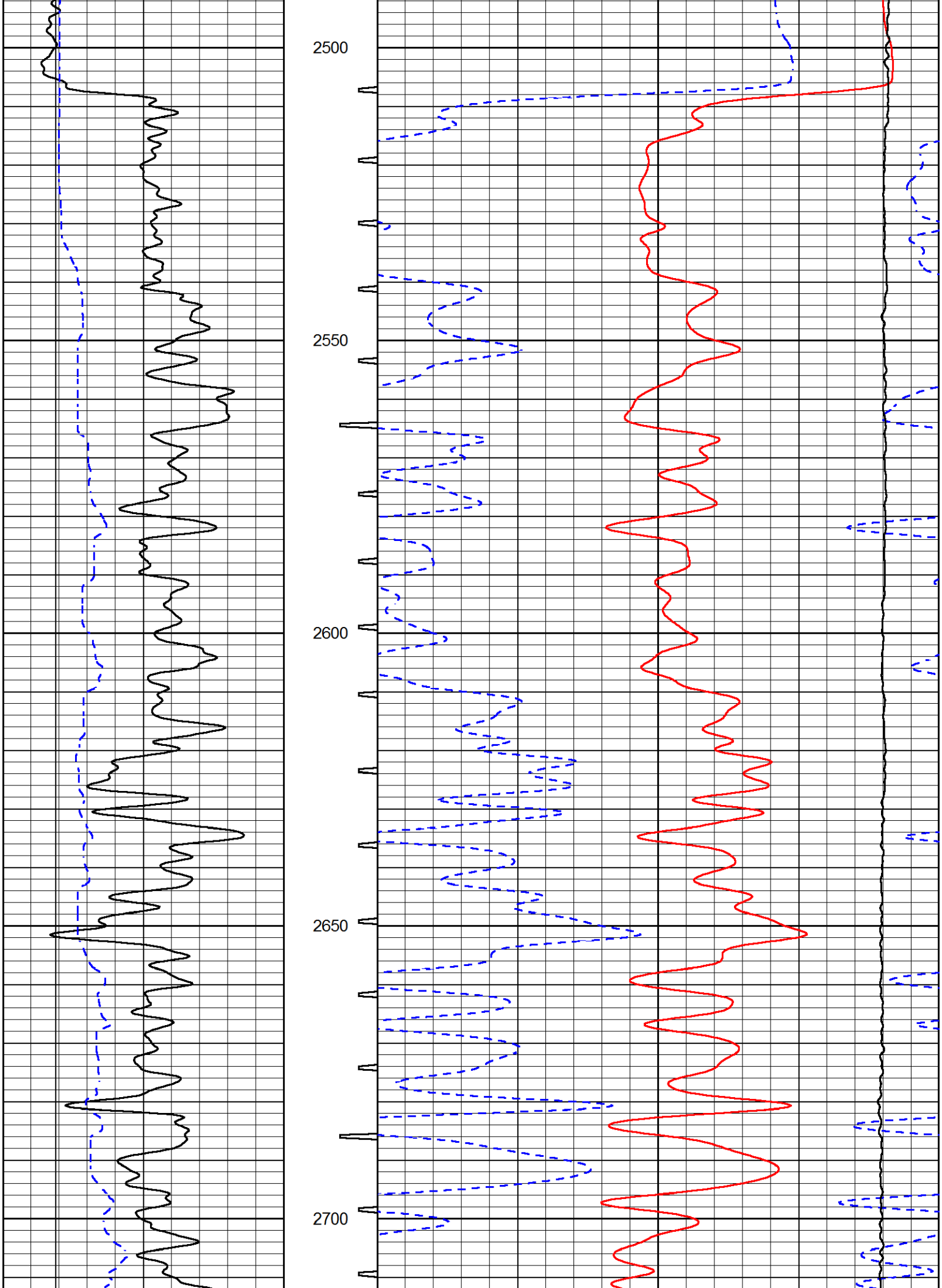
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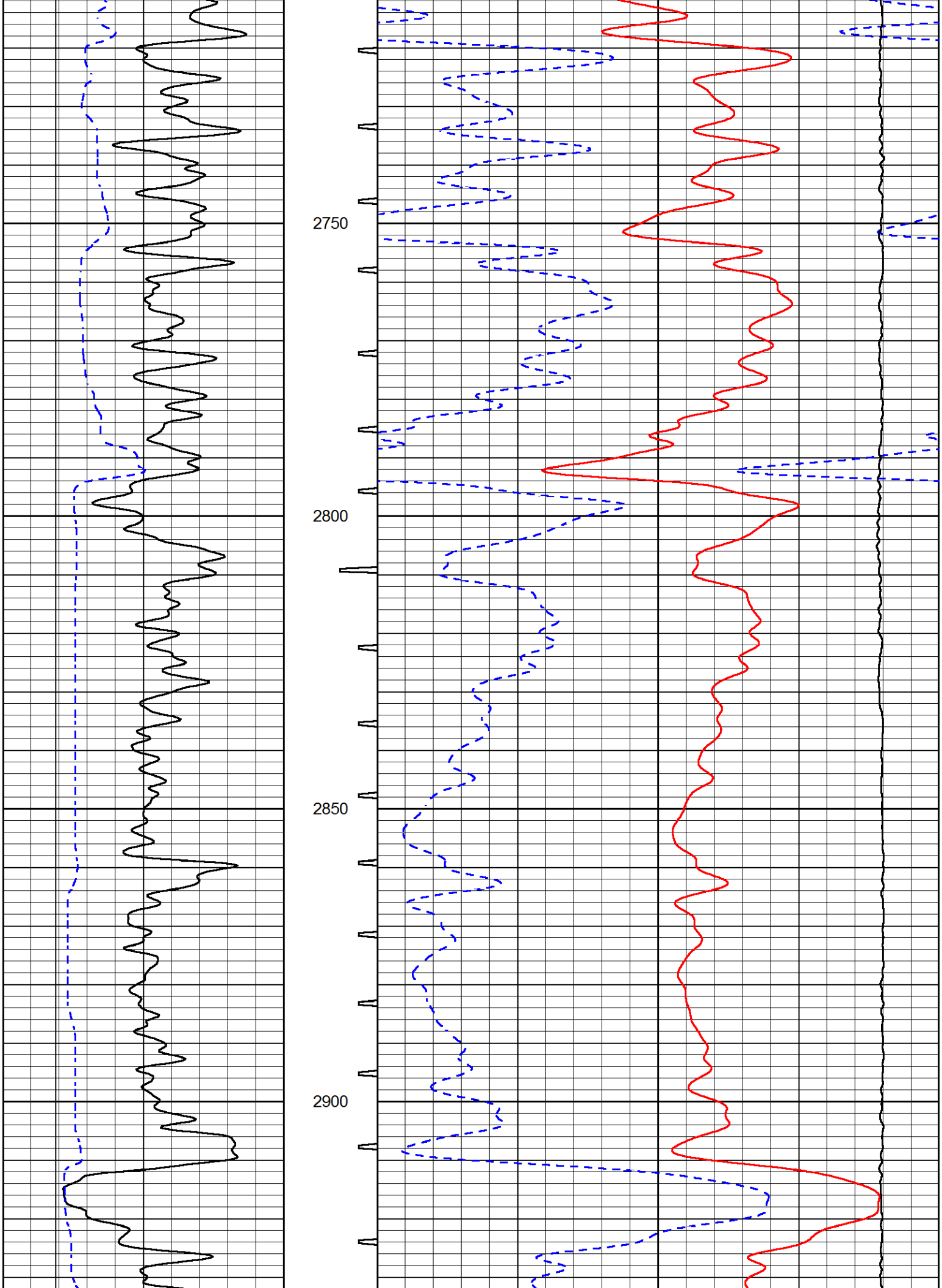
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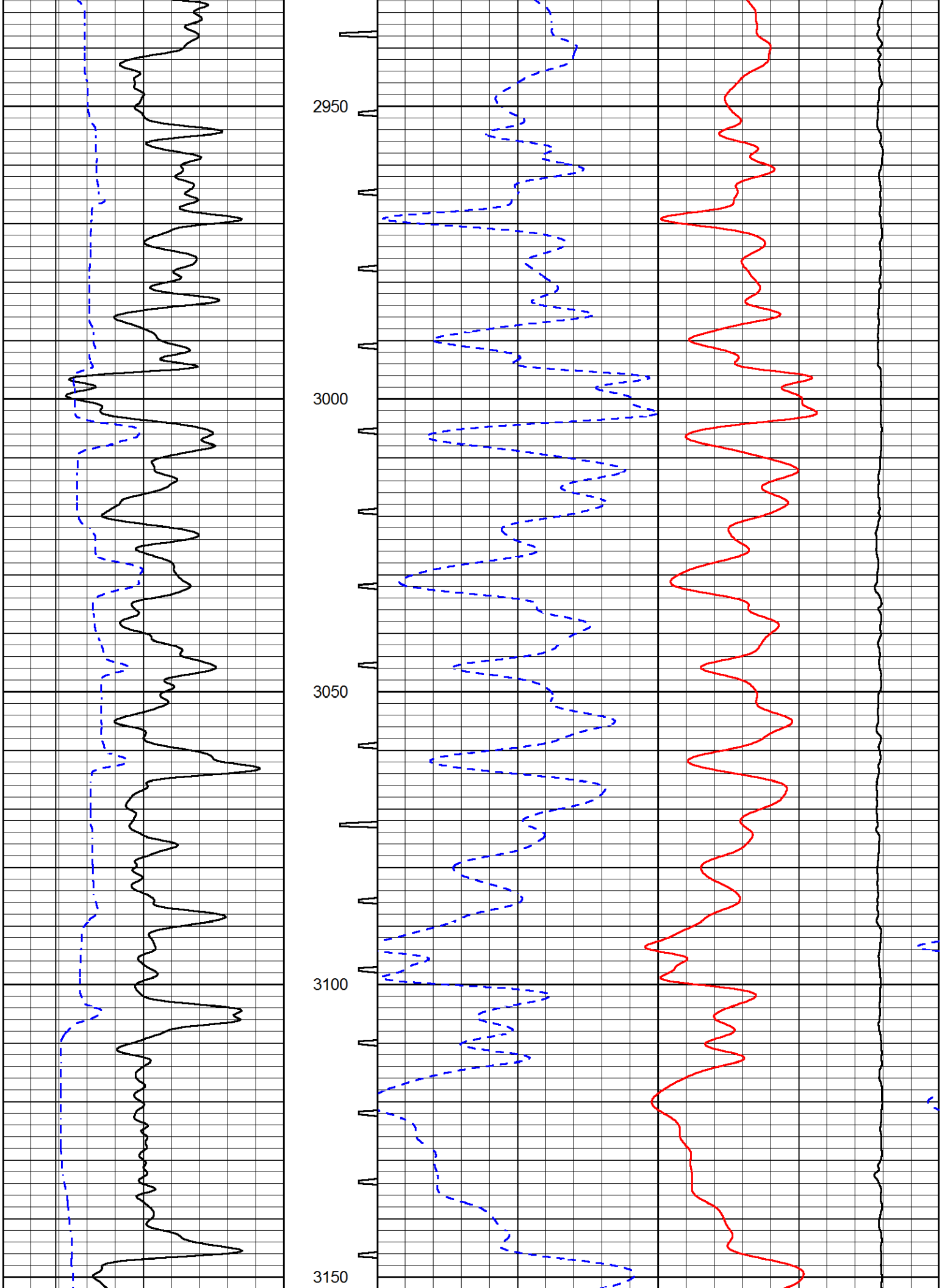
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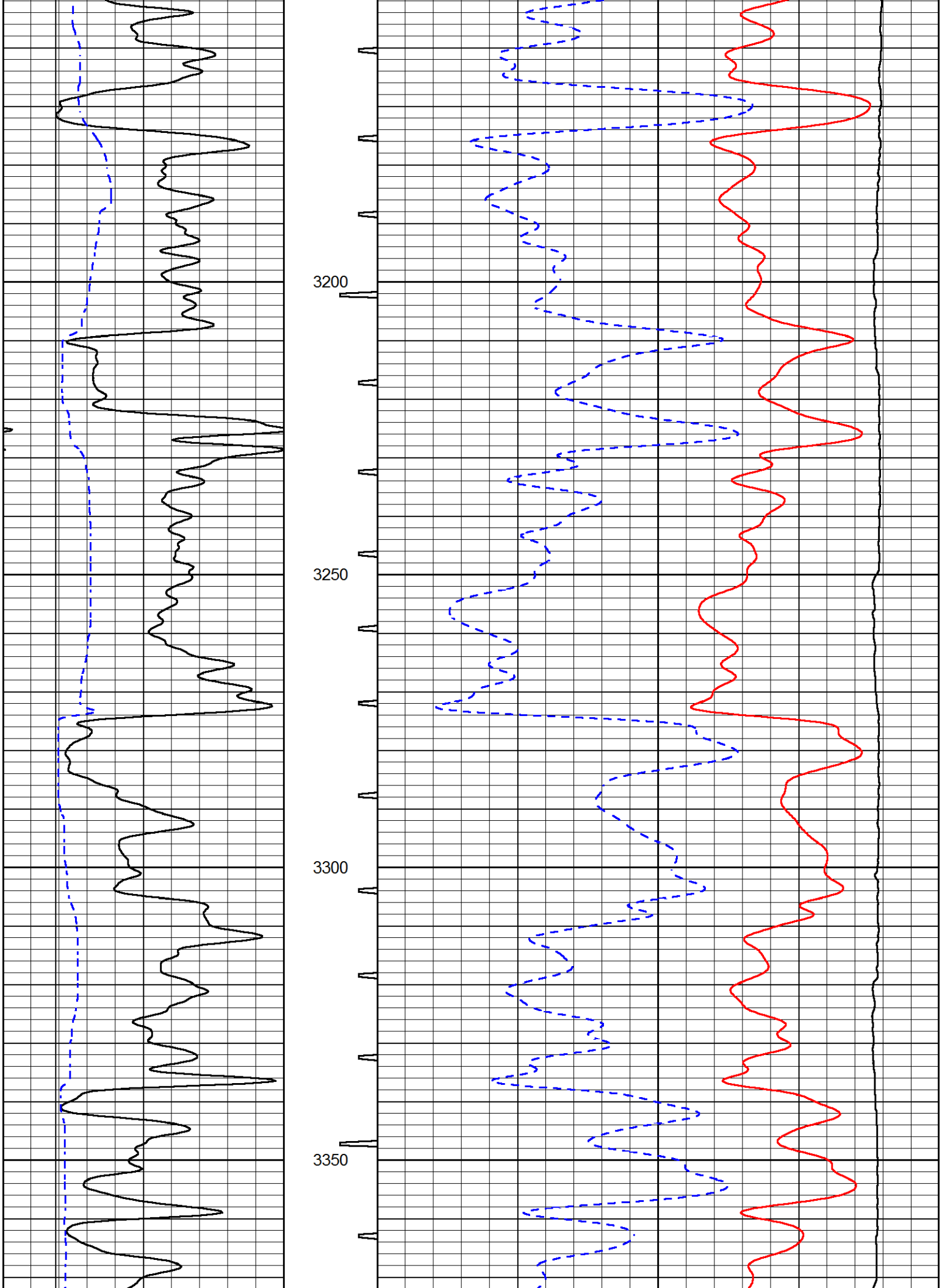
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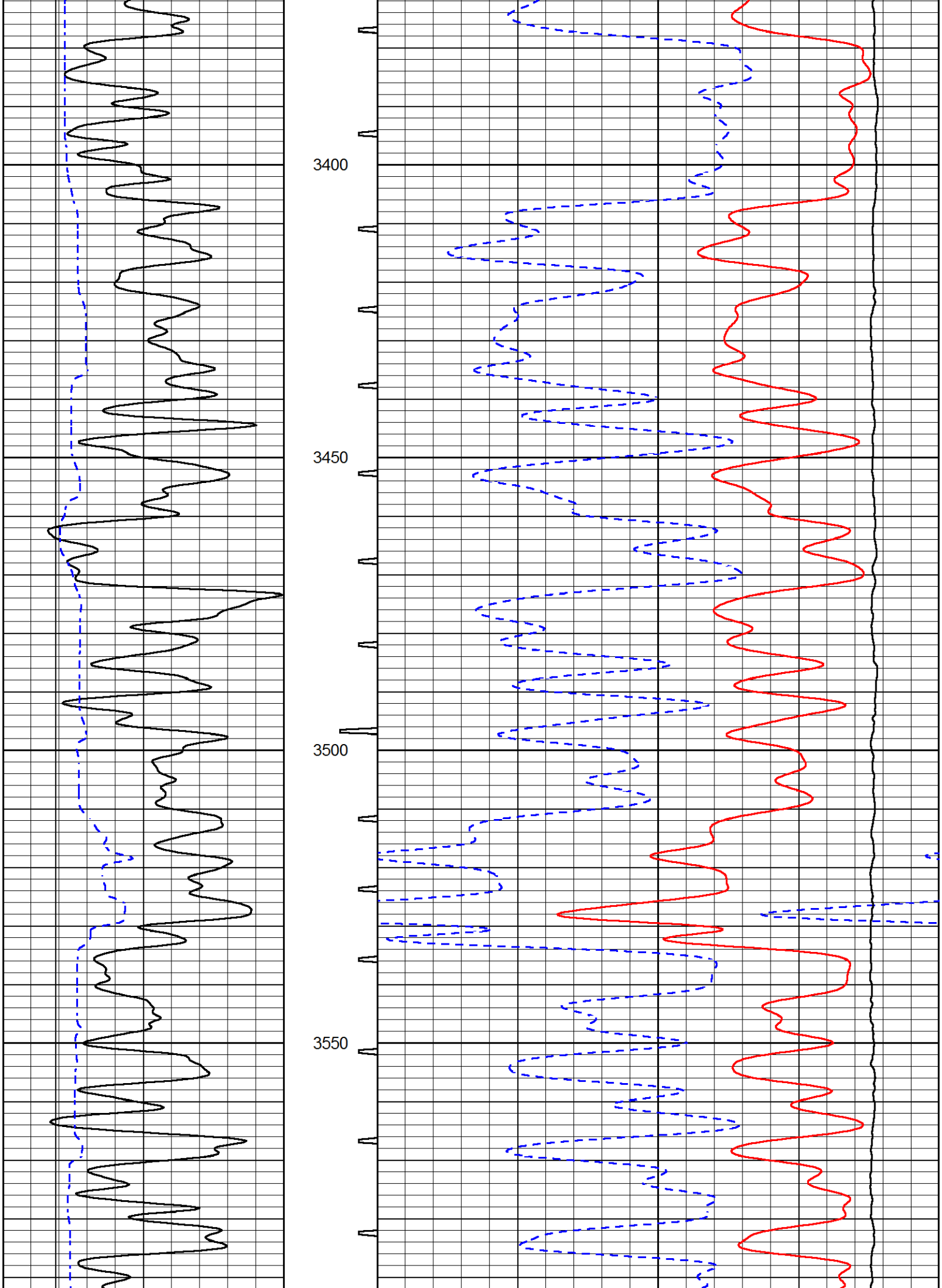
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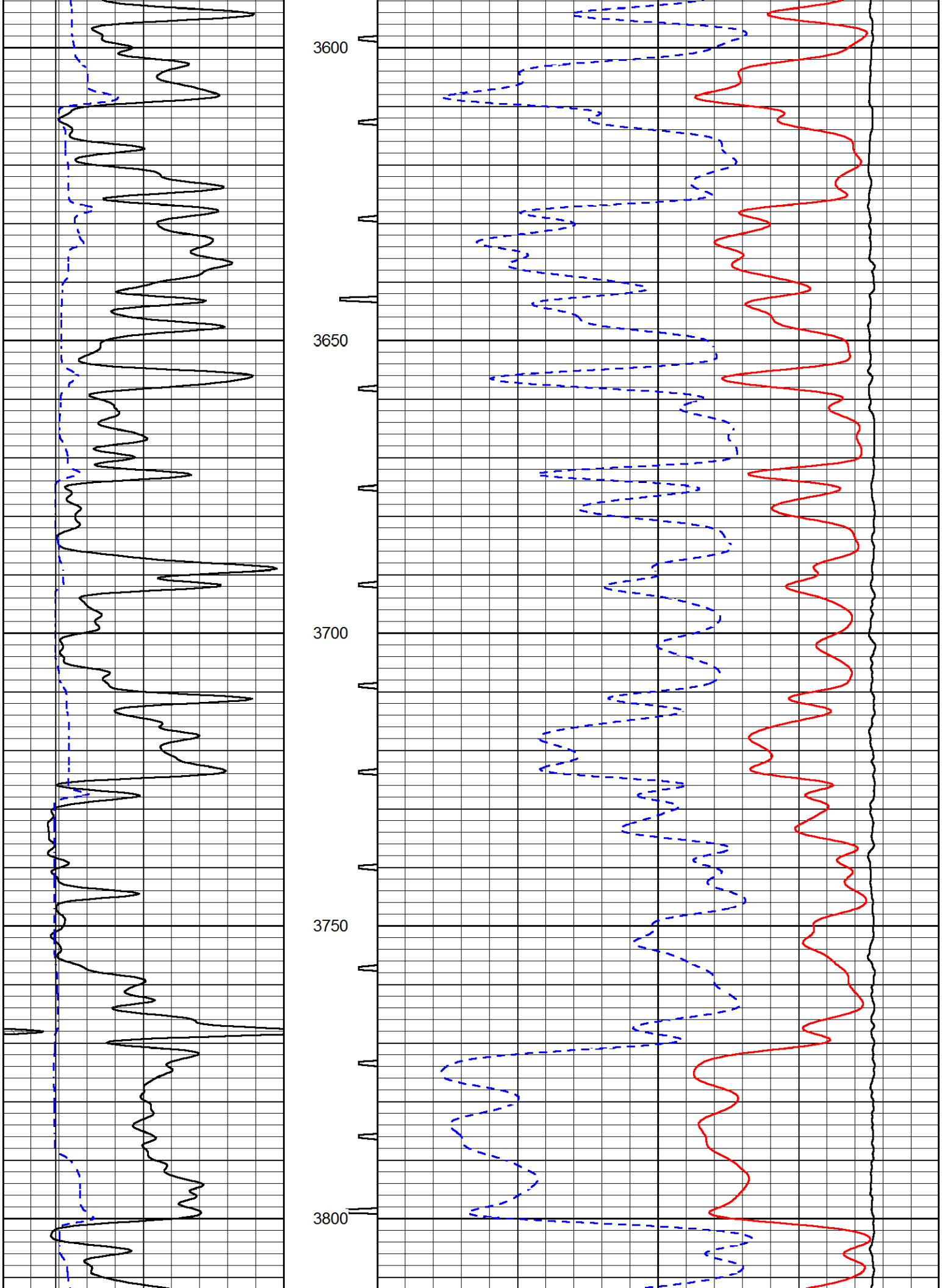
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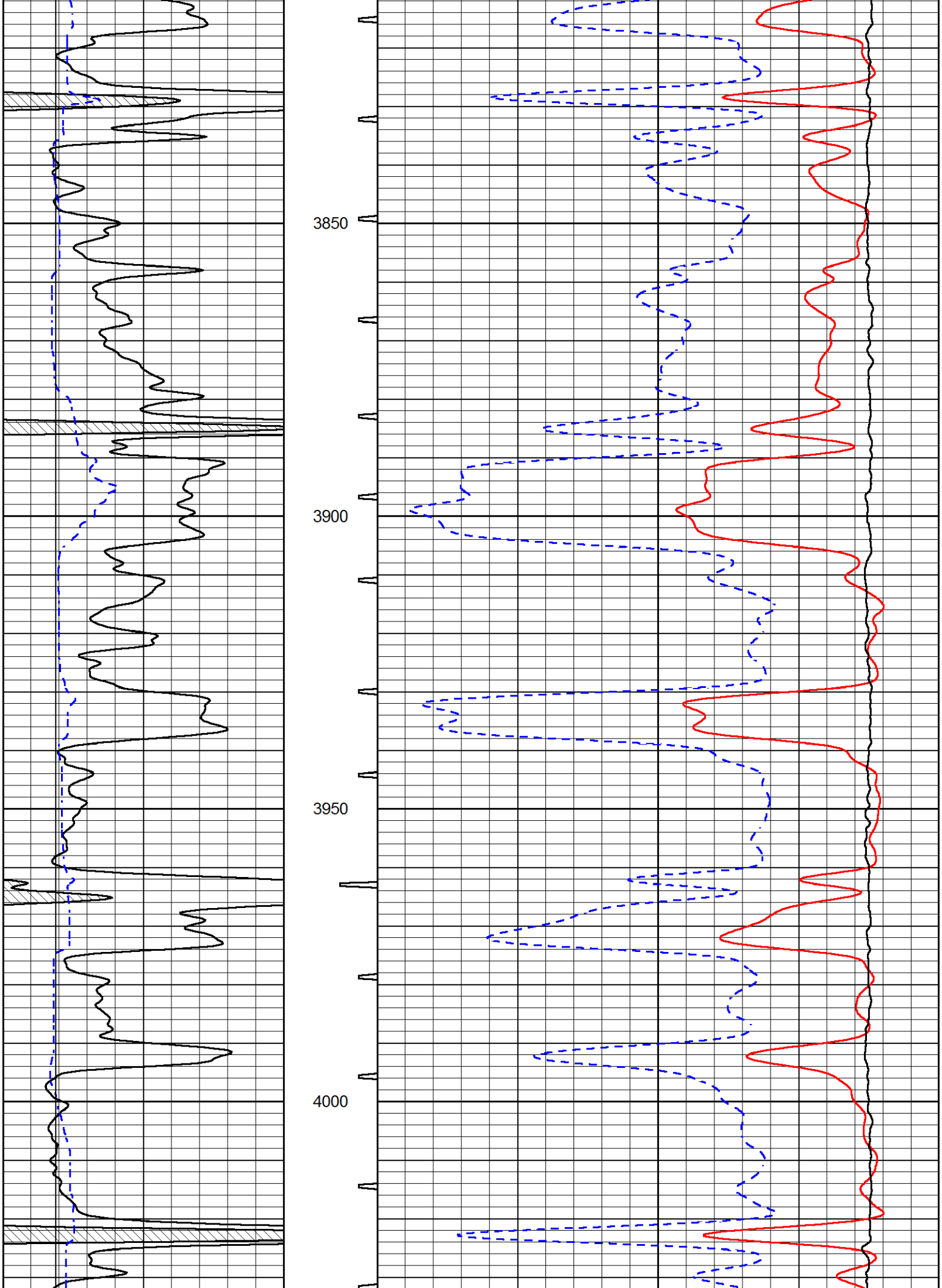
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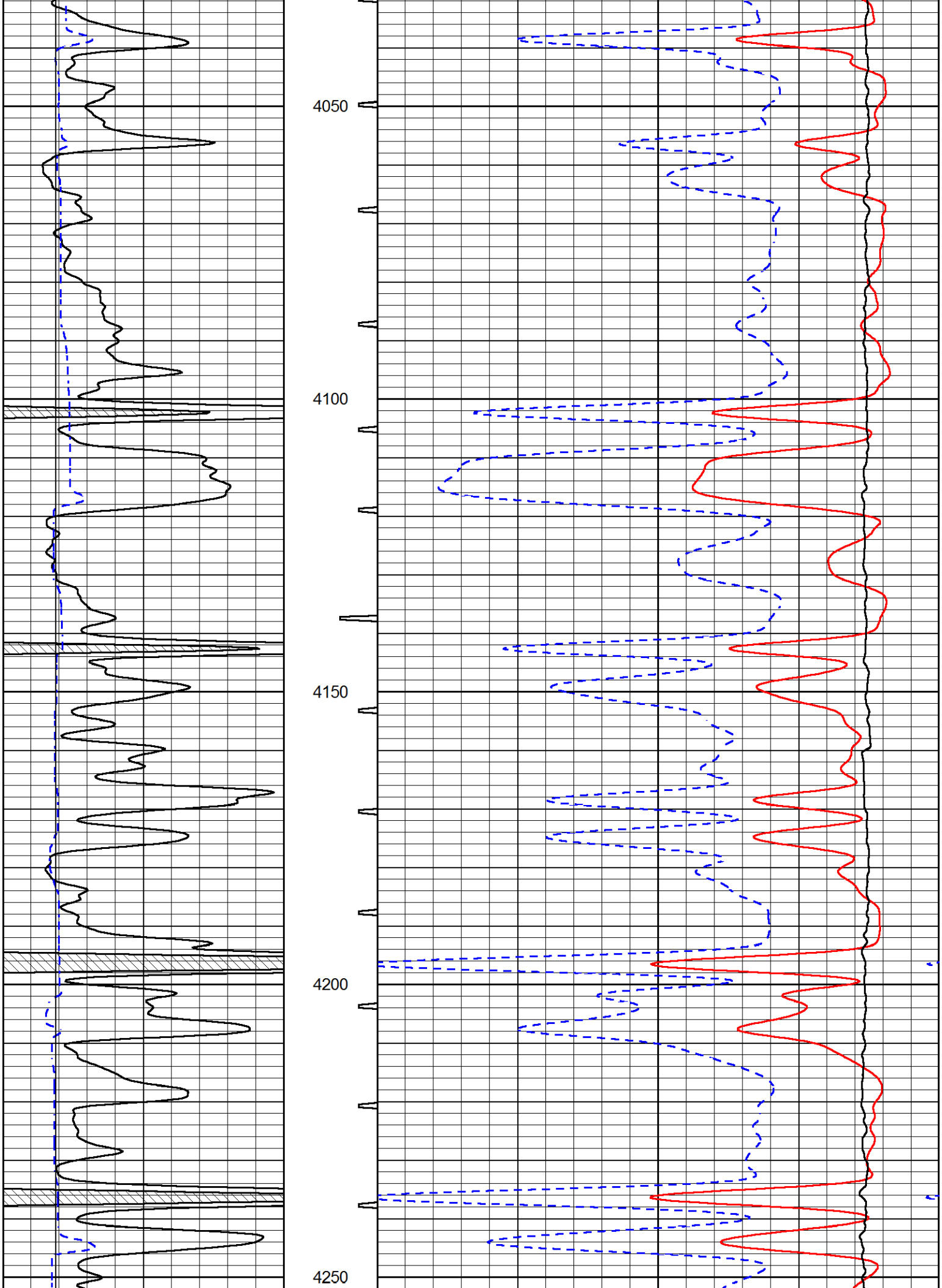
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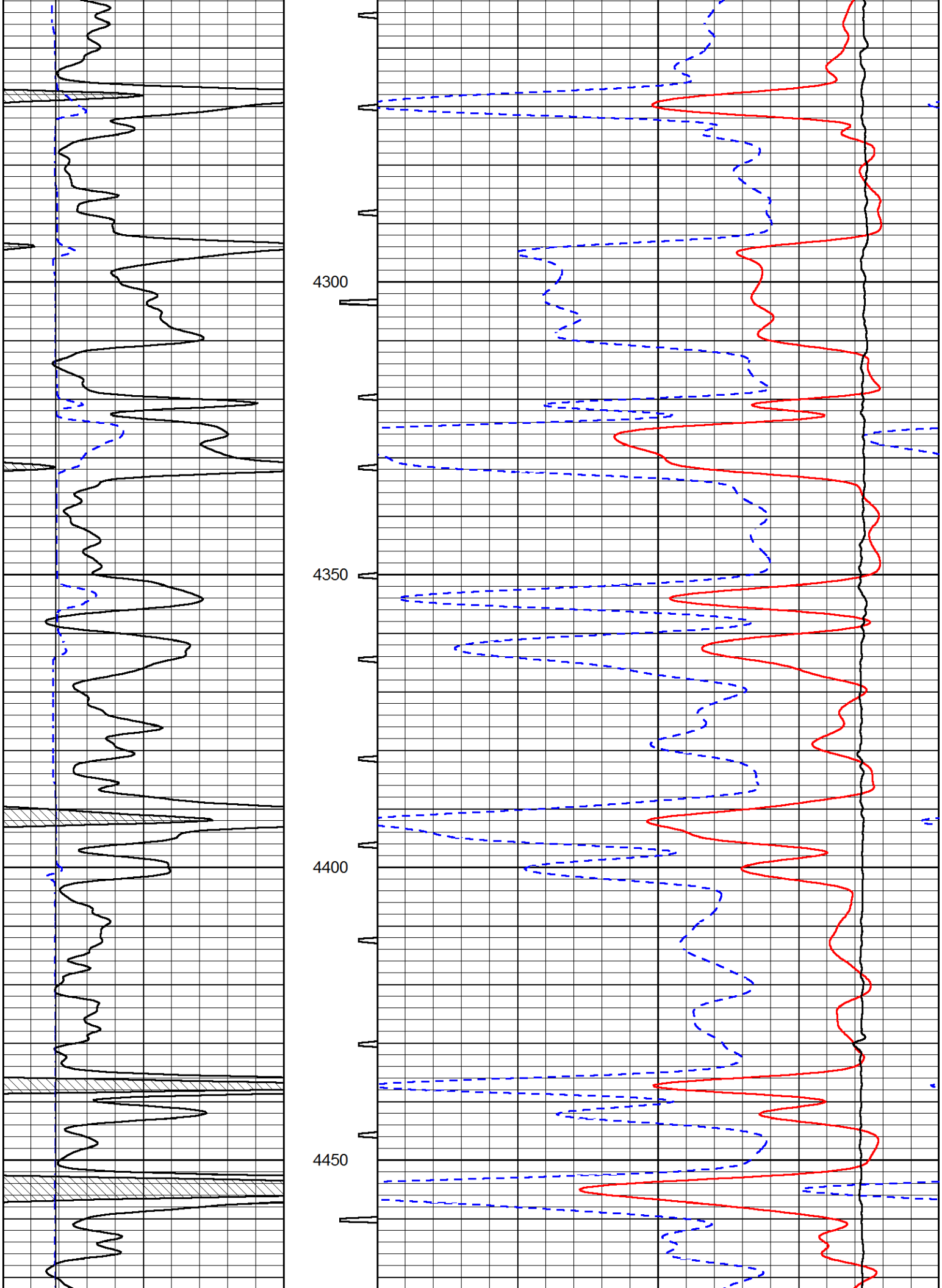
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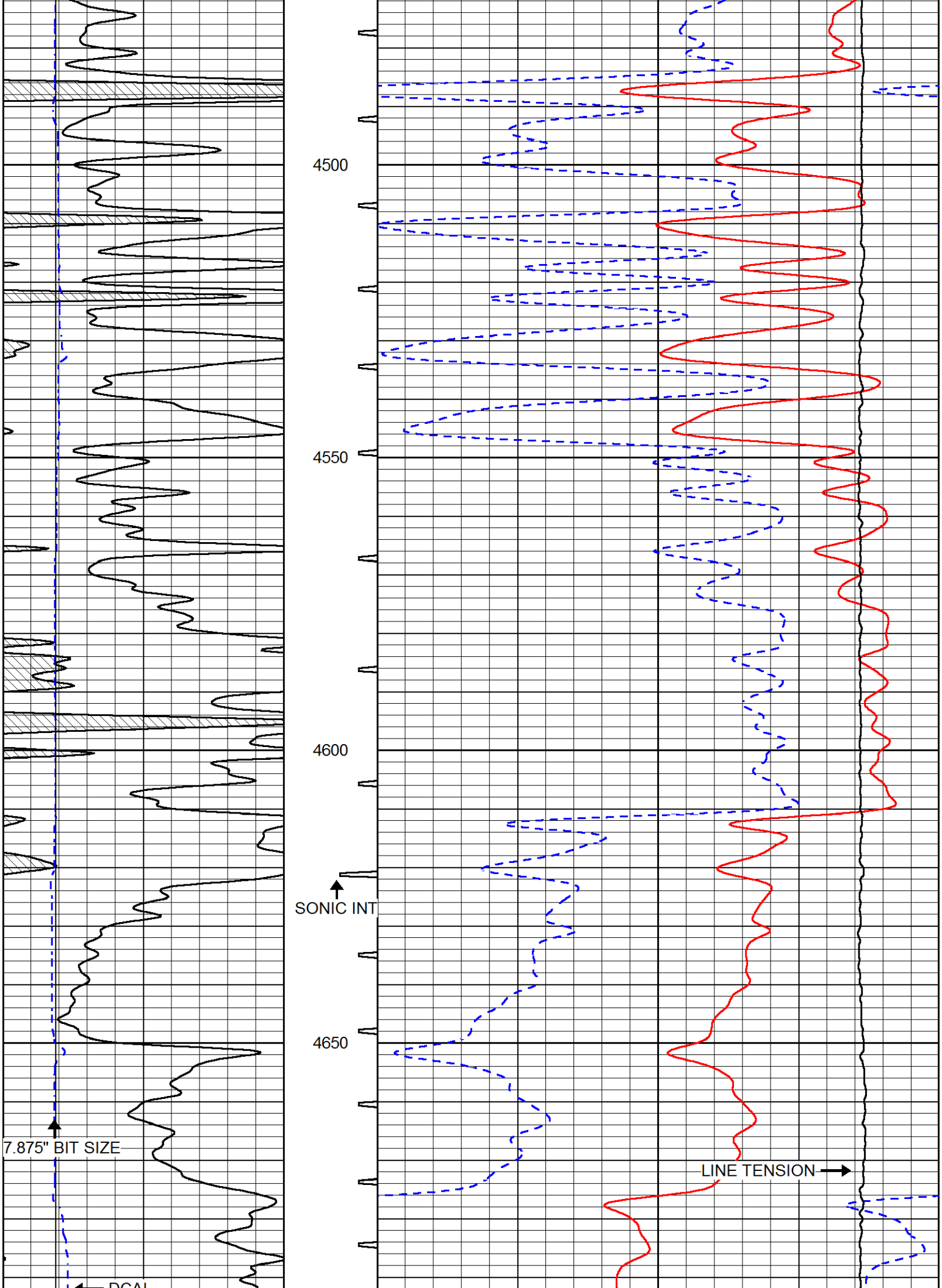
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SONIC INT
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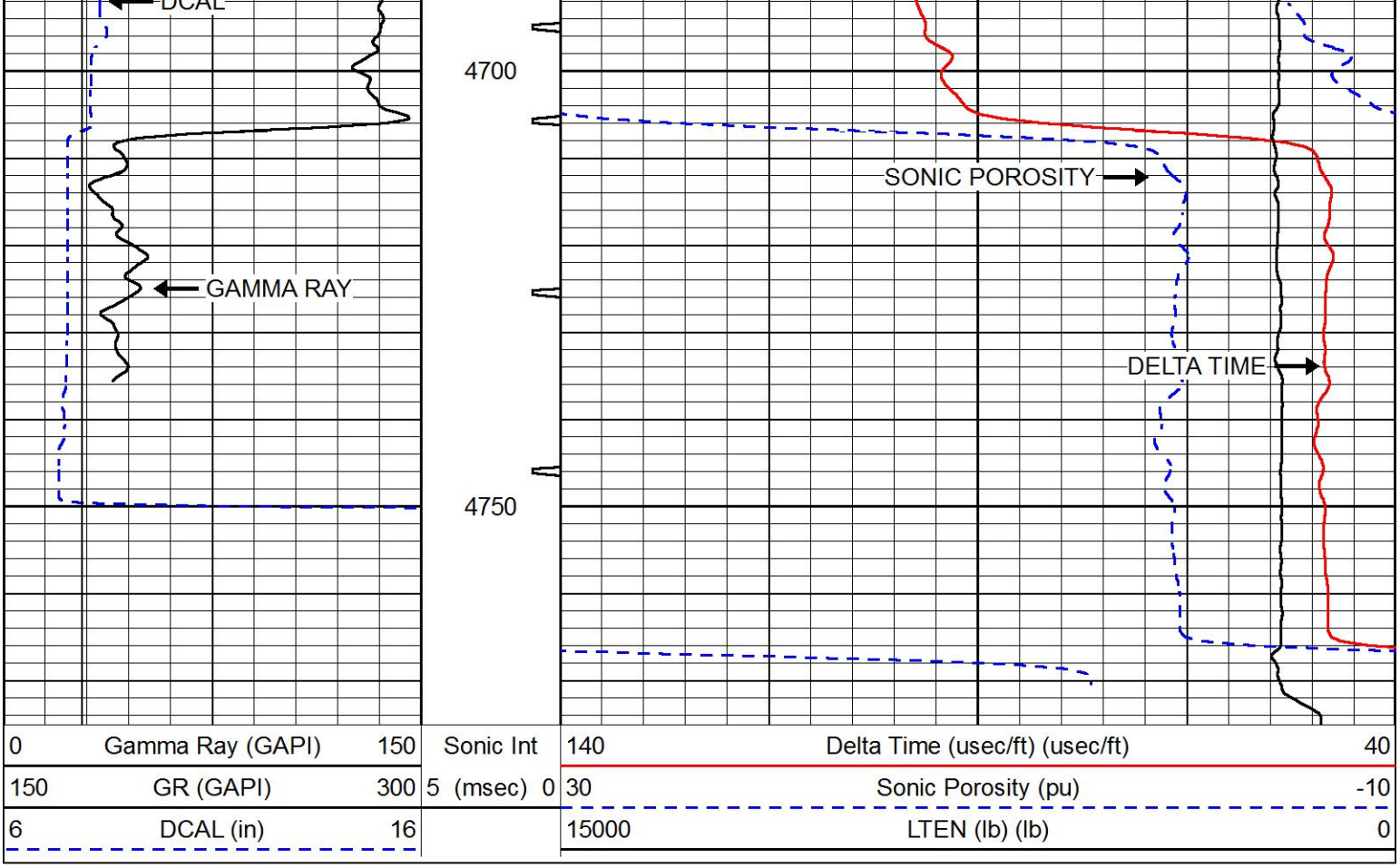
7.875" BIT SIZE
LINE TENSION



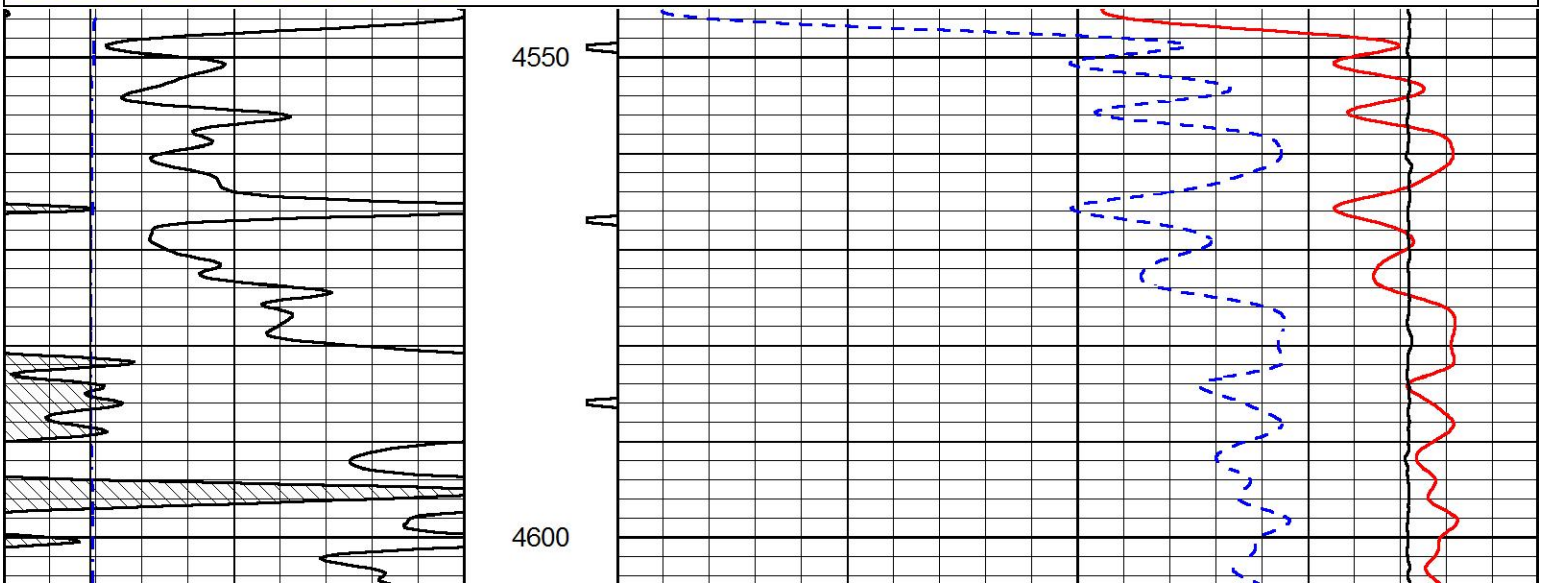
0	Gamma Ray (GAPI)	150	Sonic Int	140	Delta Time (usec/ft) (usec/ft)	40
150	GR (GAPI)	300	5 (msec) 0	30	Sonic Porosity (pu)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0

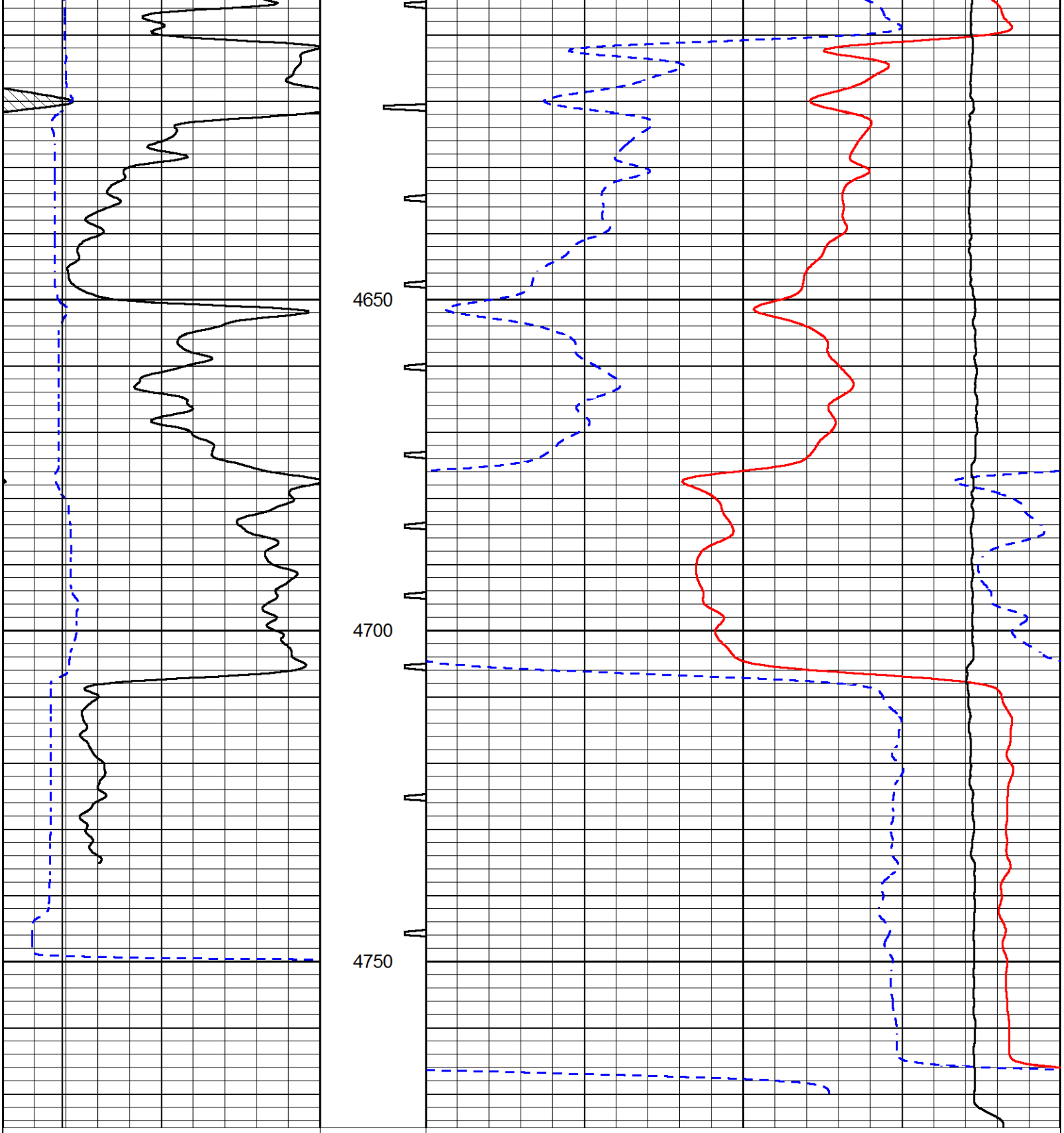
PIONEER
Pioneer Energy Services

REPEAT SECTION

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass2.2
Presentation Format	sonic
Dataset Creation	Sat Jan 27 07:06:54 2018
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)	-10
6	DCAL (in)	16		15000	LTEN (lb) (lb)	0





Calibration Report

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass4.1
Dataset Creation	Sat Jan 27 08:05:24 2018

Dual Induction Calibration Report

Serial-Model:	933 (HT)-PSI HIGH TEMP

Calibration Performed: Sat Jan 27 05:40:18 2018

Loop:	Readings Air	Readings Loop	References Air	References Loop		Results Gain	Results Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.780	-19.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.580	-62.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
Performed: Mon Jan 15 11:19:55 2018

	Readings Zero	Readings Cal	References Zero	References Cal		Results m	Results b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	34000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Tue Jan 23 10:31:02 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.522

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: MON JAN 15 10:30:30 2018

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
Tool Model: M&W
Calibration Performed: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

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Pioneer Energy Services

Company	AMERICAN WARRIOR, INC.
Well	JAY #2-35
Field	WILDCAT
County	LOGAN
State	KANSAS

PIONEER
Pioneer Energy Services

DUAL INDUCTION LOG

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN State KANSAS
Location: API # : 15-109-21533-00-00
1331' FSL & 806' FWL
SEC 35 TWP 13S RGE 36W

Other Services: CNL/CDL, MEL/BHCS

Permanent Datum: GROUND LEVEL Elevation 3124'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Elevation: K.B. 3132', D.F. N/A, G.L. 3124'

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN
State KANSAS

Date	01/27/2018			
Run Number	ONE			
Depth Driller	4770'			
Depth Logger	4772'			
Bottom Logged Interval	4771'			
Top Log Interval	200'			
Casing Driller	8.625" @ 221'			
Casing Logger	219'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	6000			
Density / Viscosity	9.2 / 63			
pH / Fluid Loss	11.0 / 8.0			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.40 @ 40			
Rmf @ Meas. Temp	0.30 @ 40			
Rmc @ Meas. Temp	0.54 @ 40			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.13 @ 124			
Operating Rig Time	5 HOURS			
Max Rec. Temp. F	124			
Equipment Number	91			
Location	HAYS			
Recorded By	D. SCHMIDT			
Witnessed By	KEVIN TIMSON			

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

RUSSELL SPRINGS,
1 SOUTH, 6 WEST,
SOUTH INTO ABOUT A MILE (KEEP RIGHT AT THE V)

Log Measured From: KELLY BUSHING 8 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: D. SCHMIDT	Primary Witness: KEVIN TIMSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\americanwarrior_jay#2-35.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-130	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	30	0	5.5	0	4771	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (227-771)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					

			DIL-PSI HIGH TEMP (933 (HT))	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset: americanwarrior_jay#2-35.db: field/well/STKML/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

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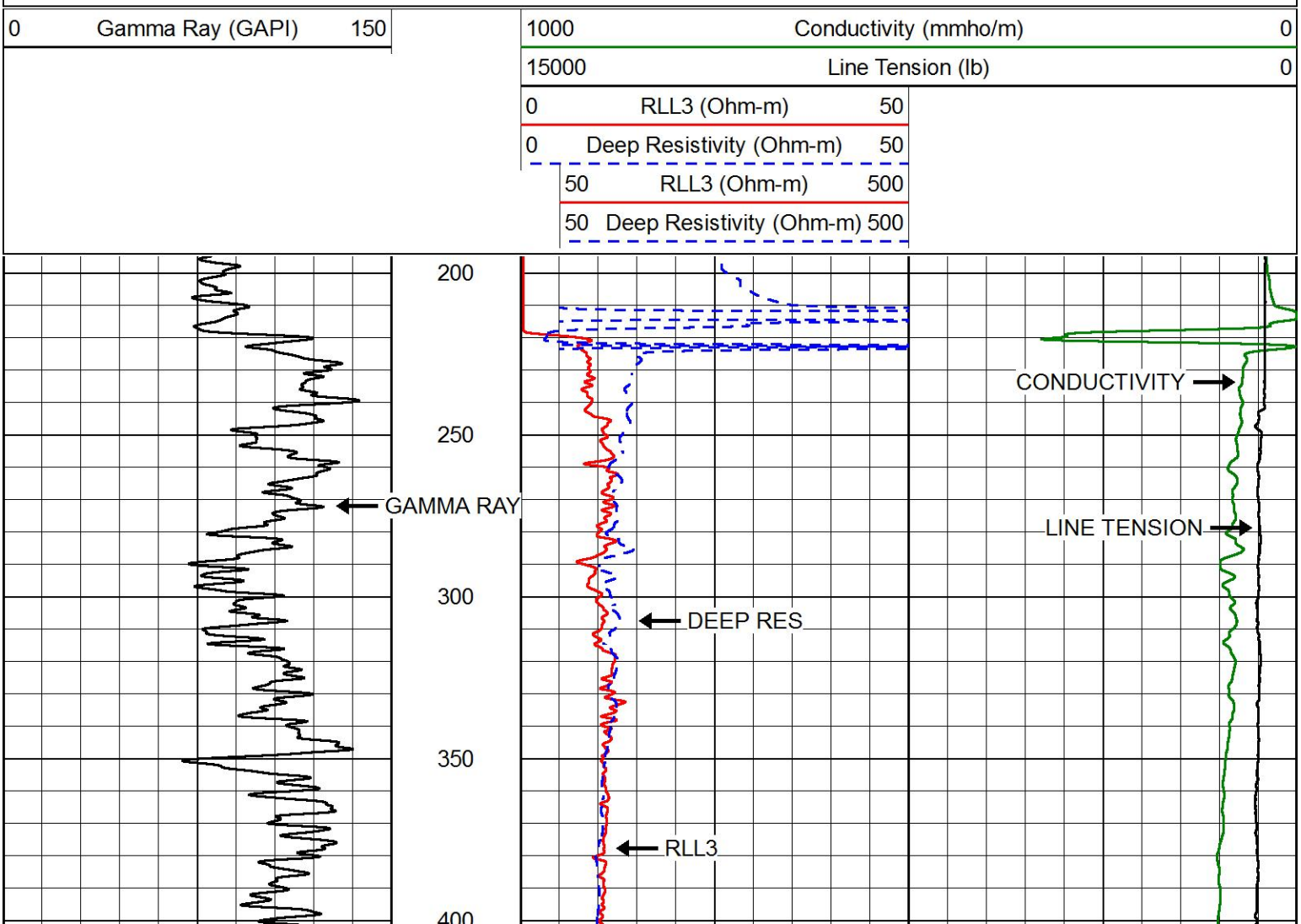
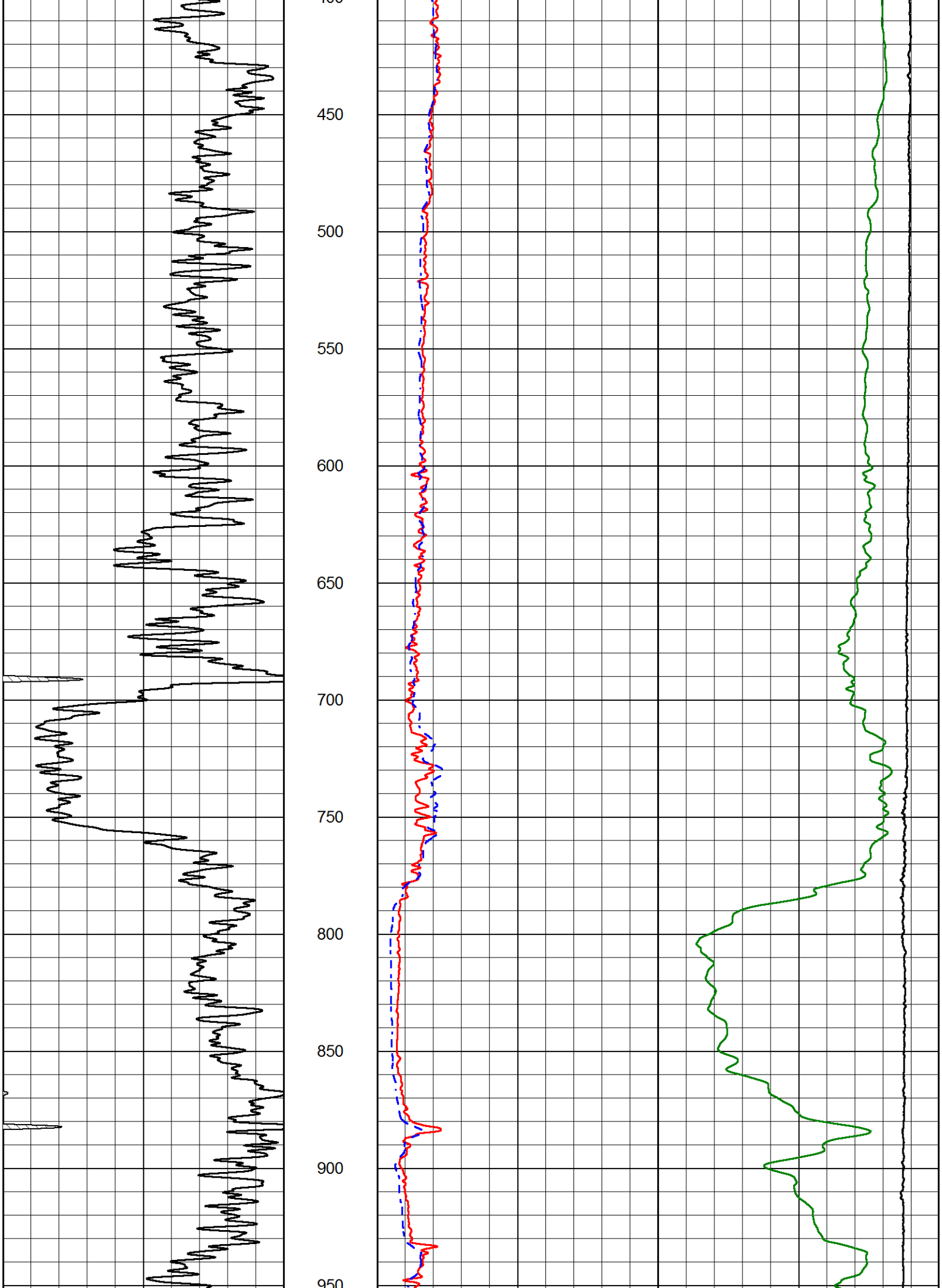
MAIN PASS

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass4.1
Presentation Format	dil2in
Dataset Creation	Sat Jan 27 08:05:24 2018
Charted by	Depth in Feet scaled 1:600

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650
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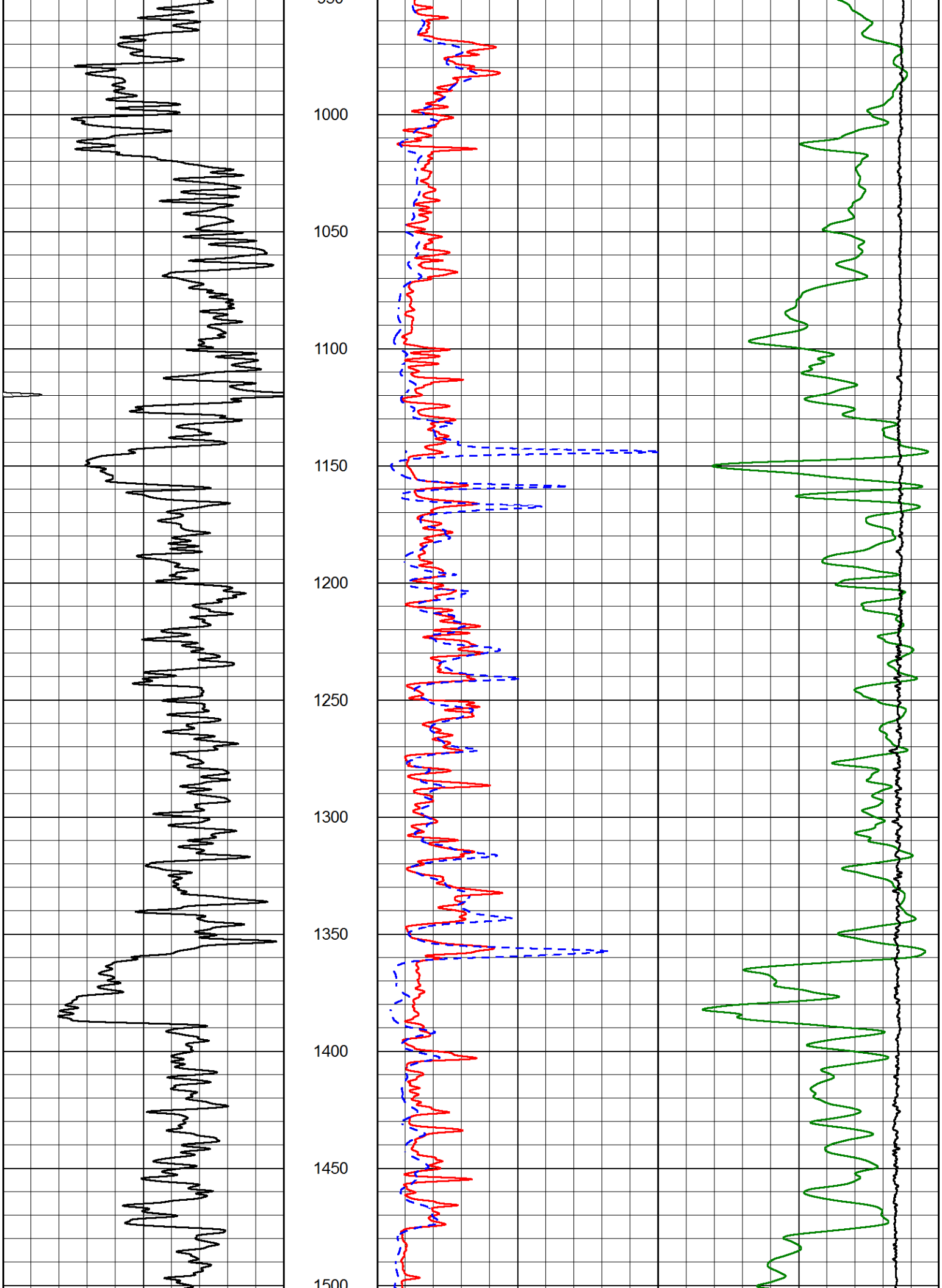
900
950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1100
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1200
1250
1300
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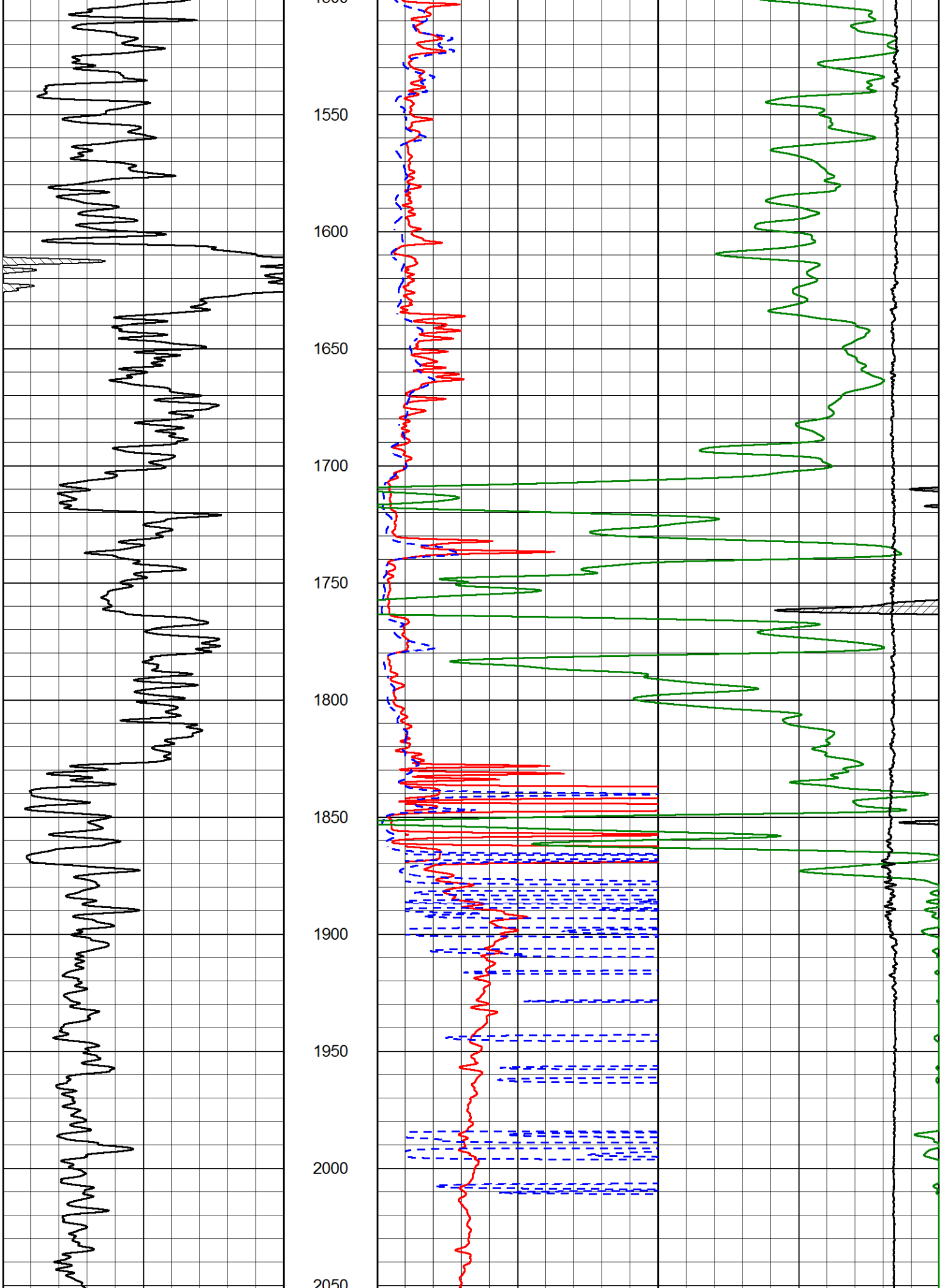
1450
1500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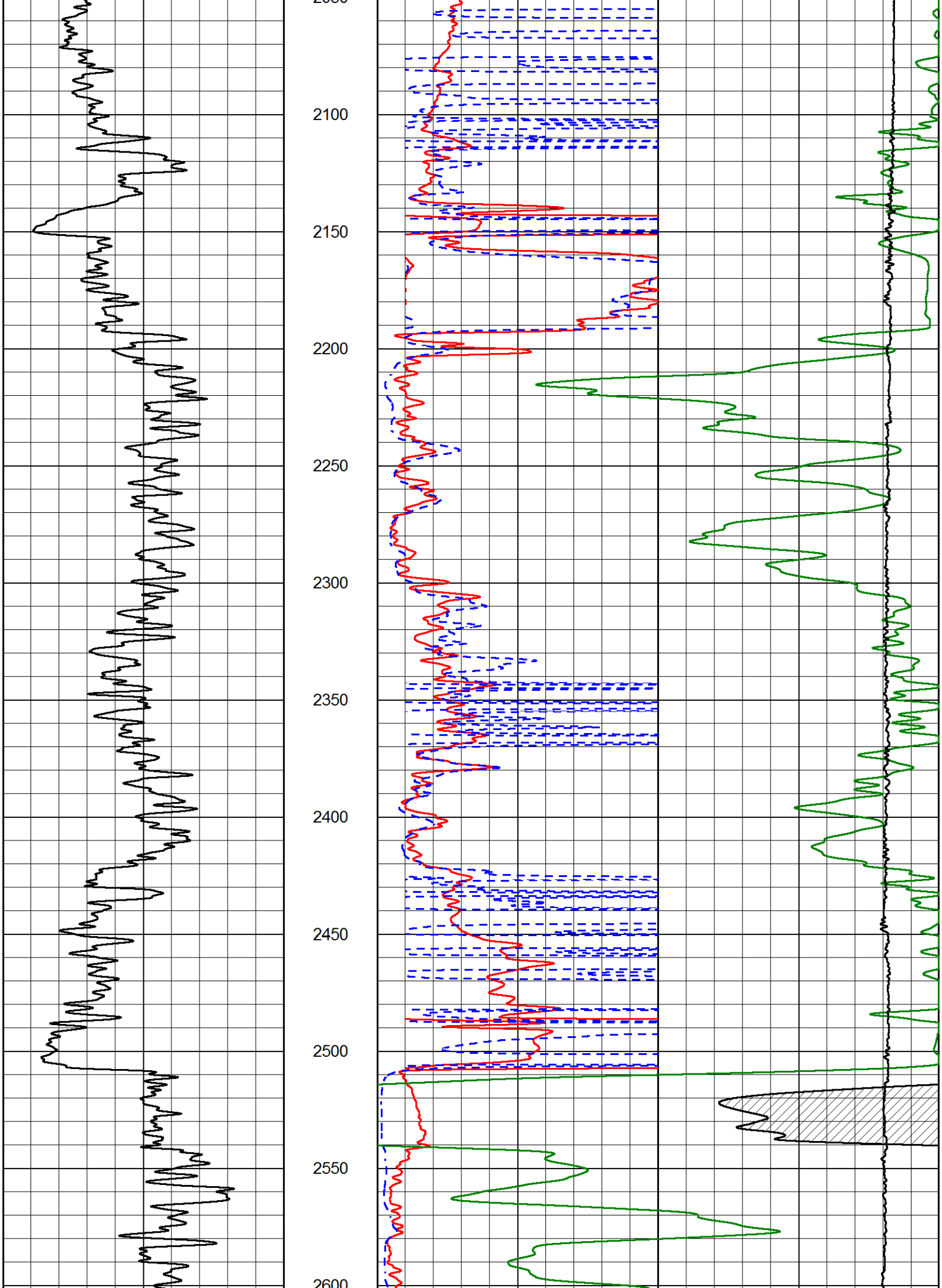
1800
1850
1900
1950
2000
2050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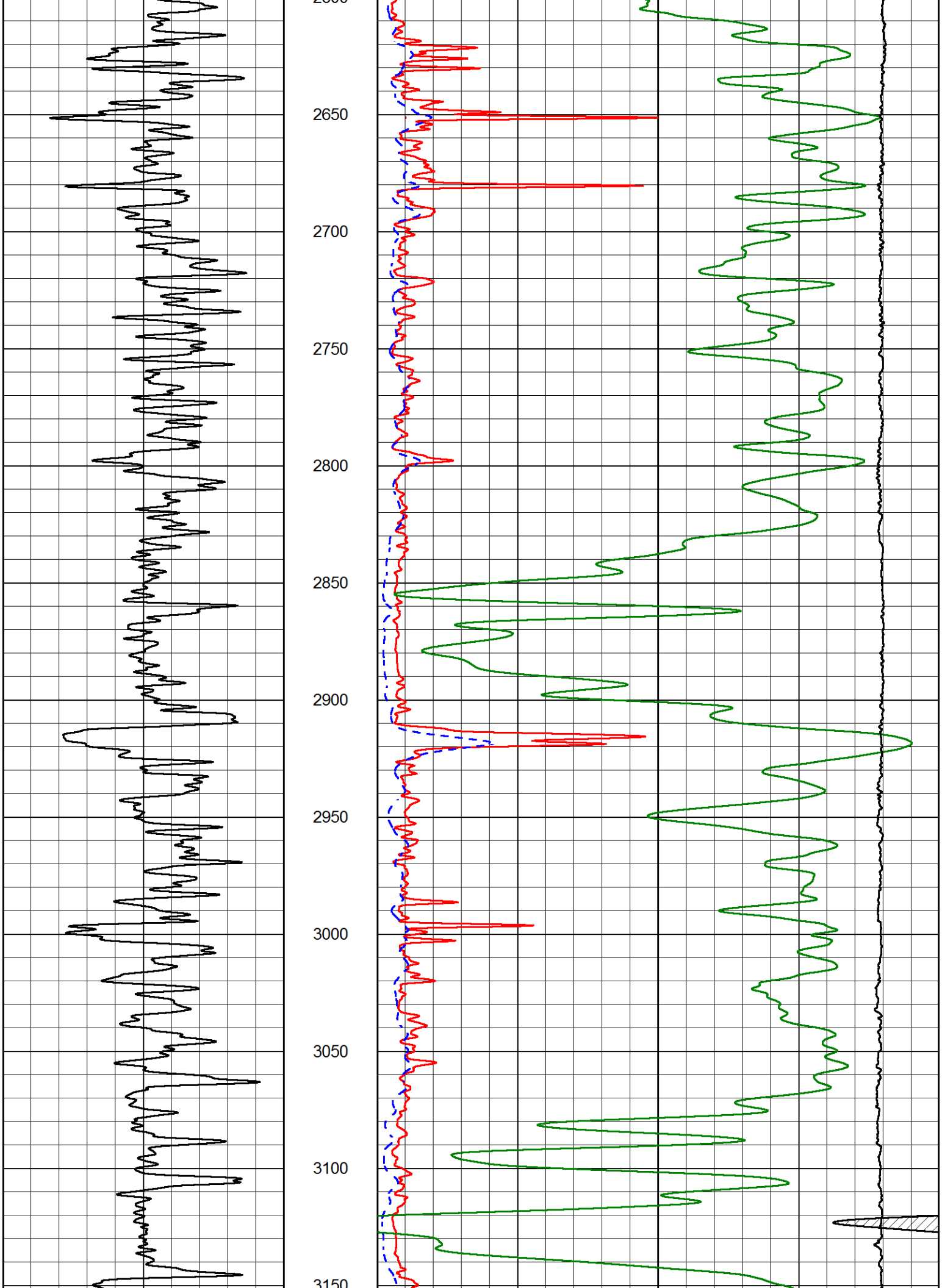
2500
2550
2600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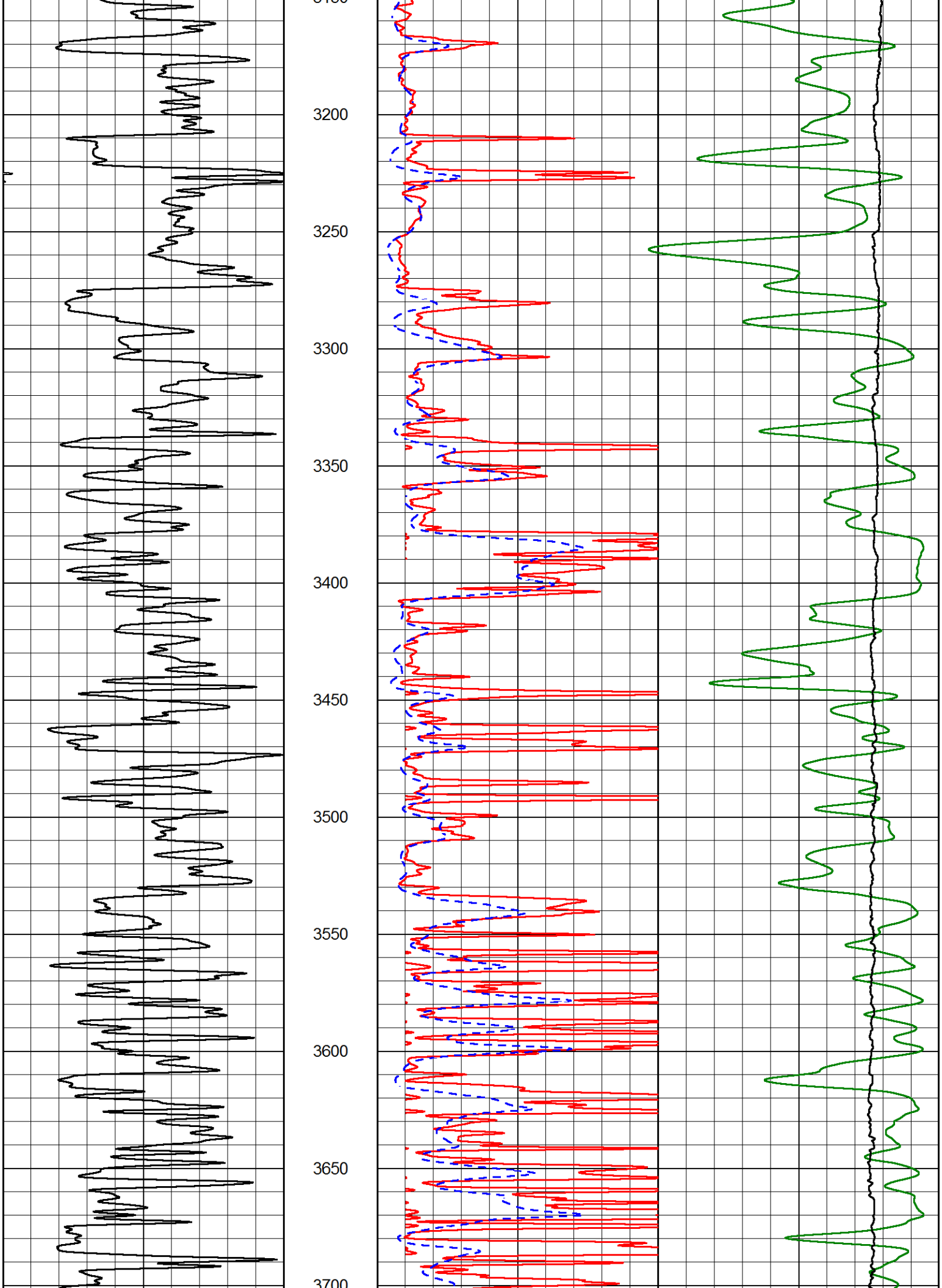
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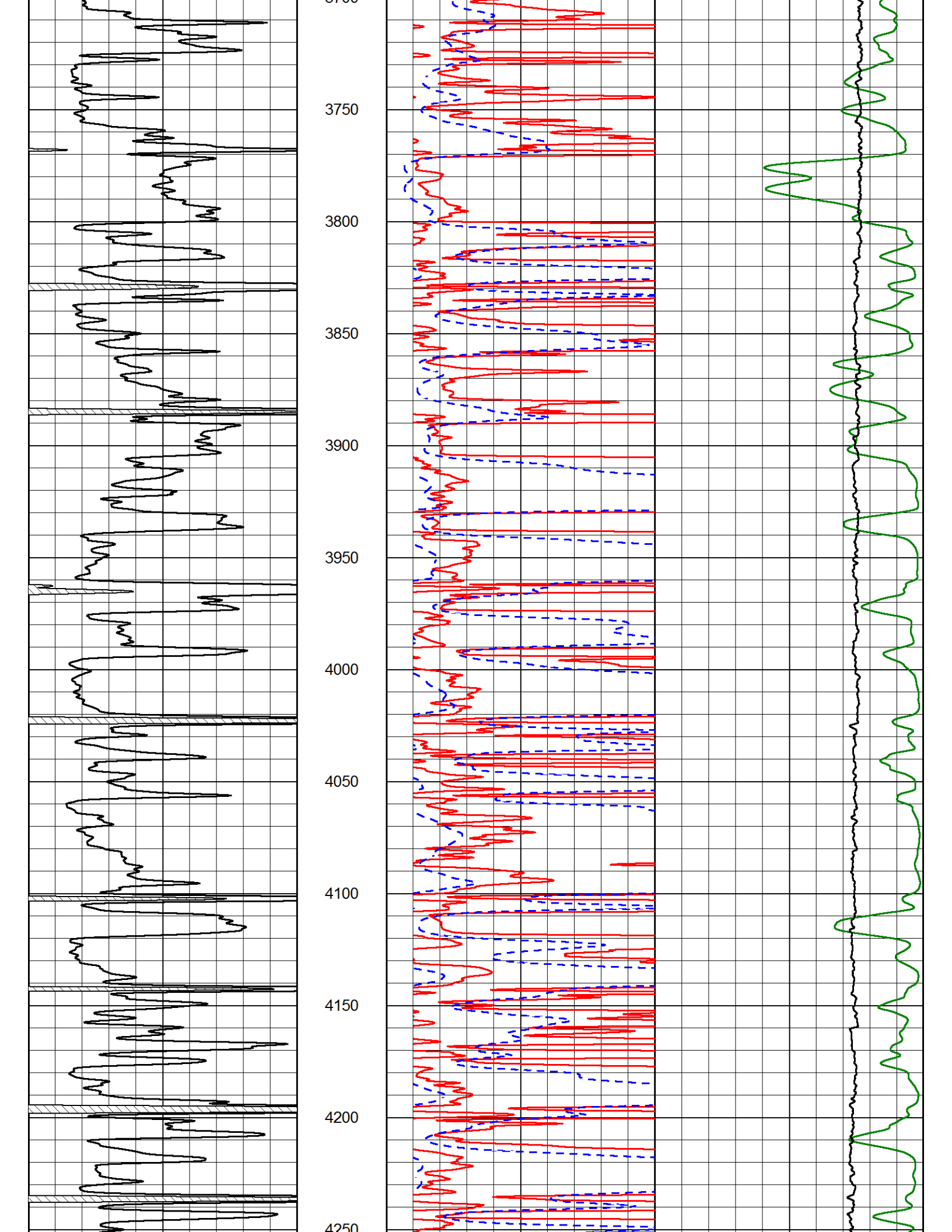
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3900
3950
4000
4050
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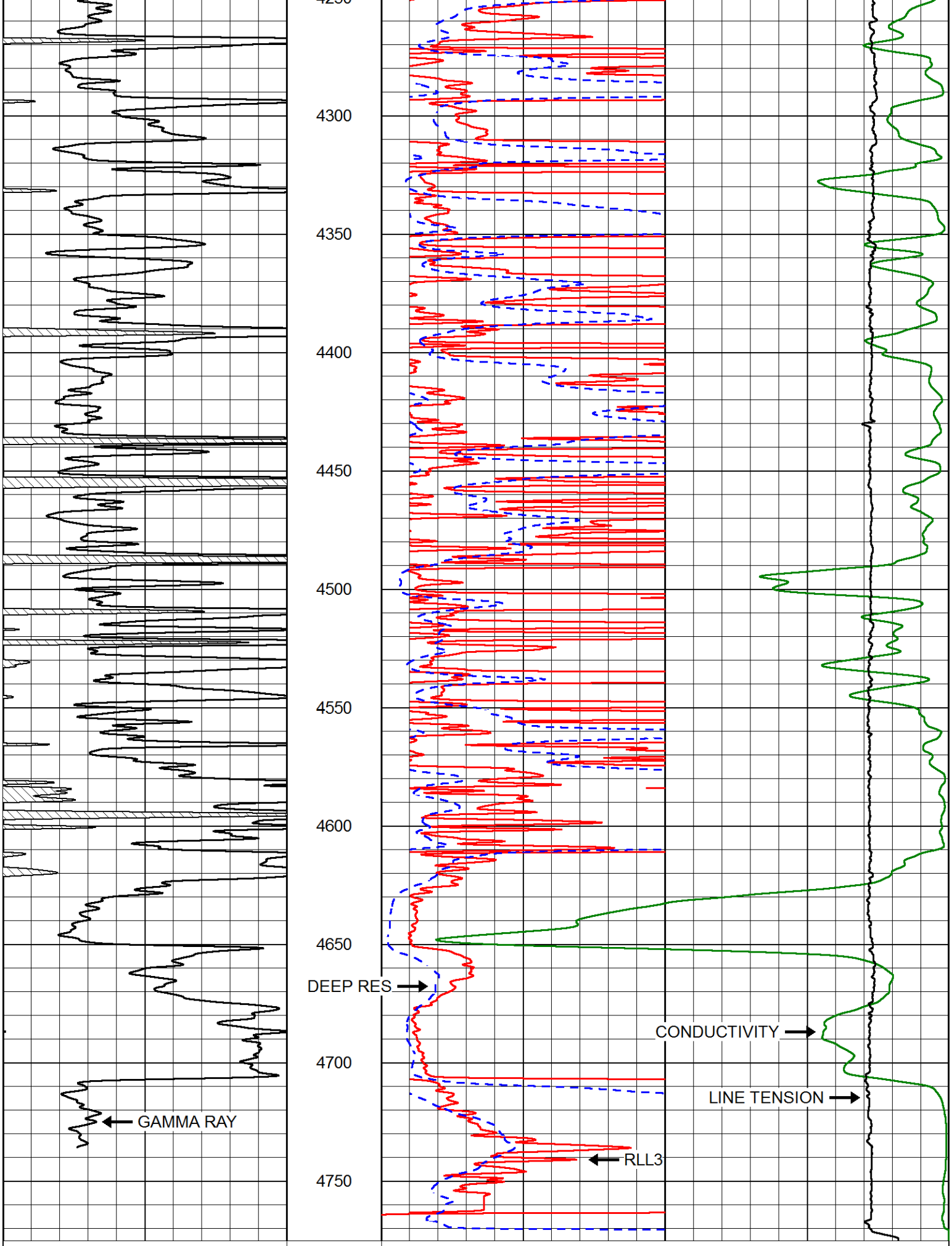
4150
4200
4250


4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
DEEP RES
CONDUCTIVITY
LINE TENSION
GAMMA RAY
RLL3
0
Gamma Ray (GAPI)
150
1000
Conductivity (mmho/m)
0
15000
Line Tension (lb)
0

0	RLL3 (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
50	RLL3 (Ohm-m)	500
50	Deep Resistivity (Ohm-m)	500

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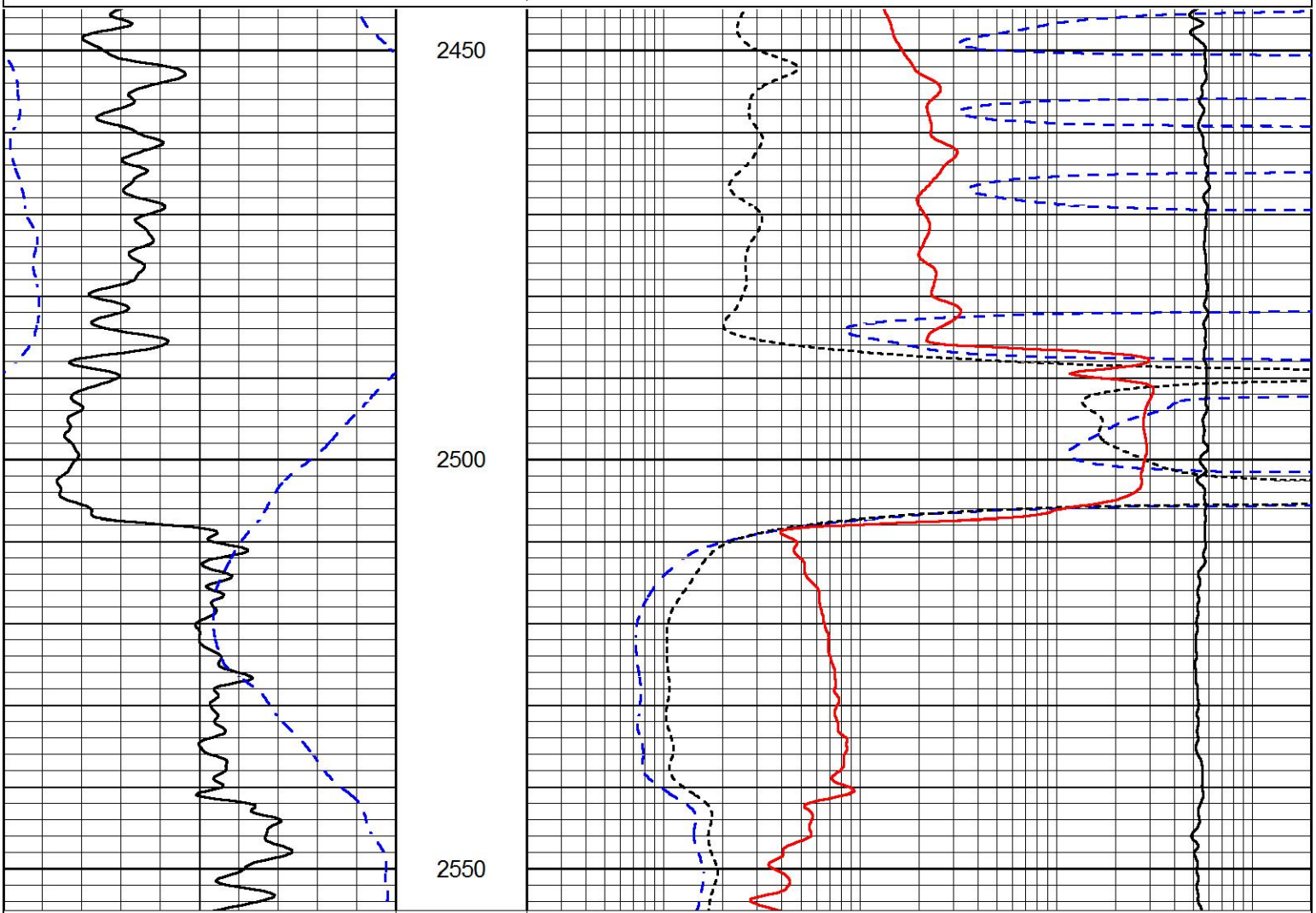
Pioneer Energy Services

MAIN PASS

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass4.1
Presentation Format	dil
Dataset Creation	Sat Jan 27 08:05:24 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
10000	Line Tension (lb)	0



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
10000	Line Tension (lb)	0

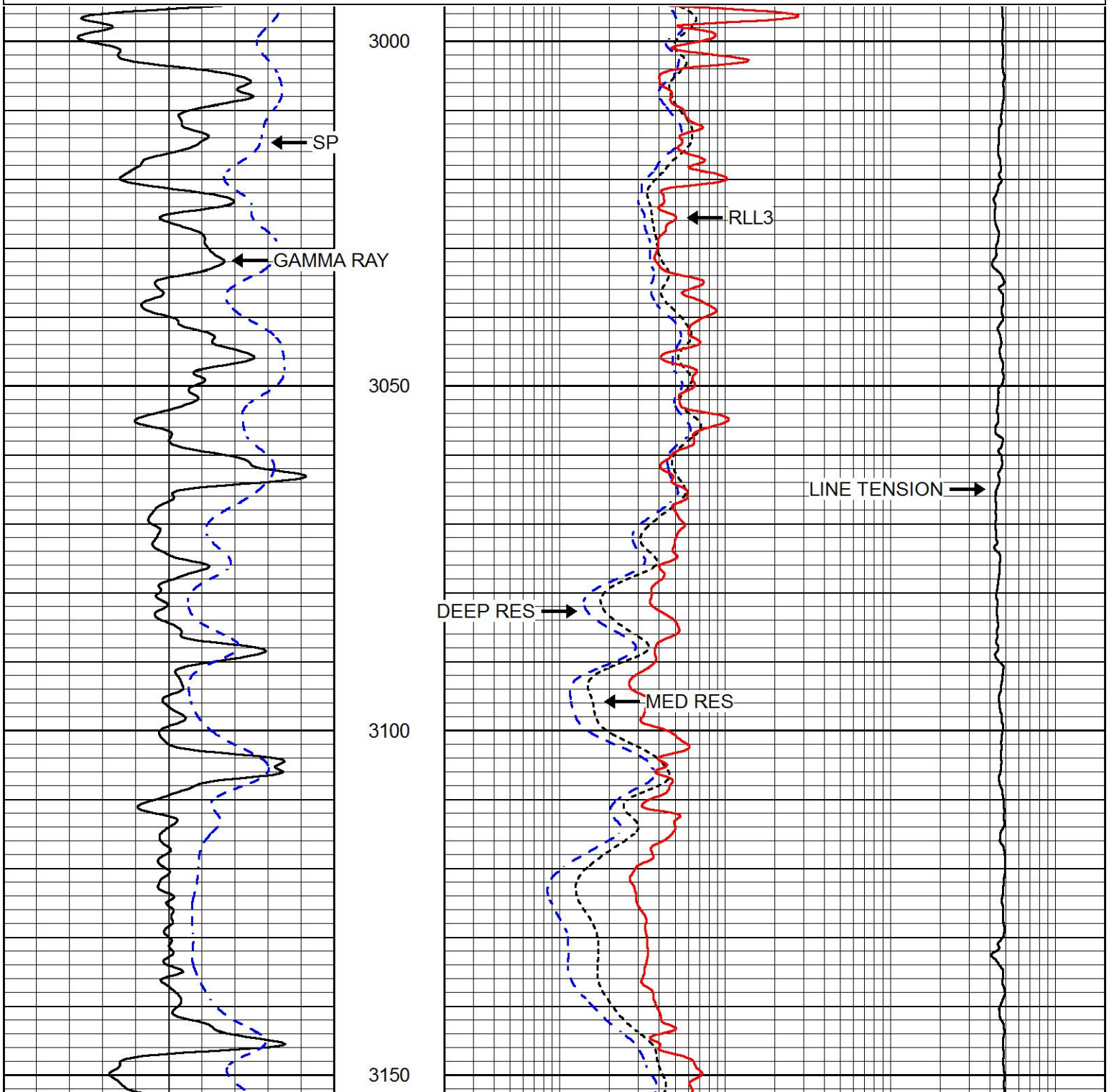
PIONEER
Pioneer Energy Services

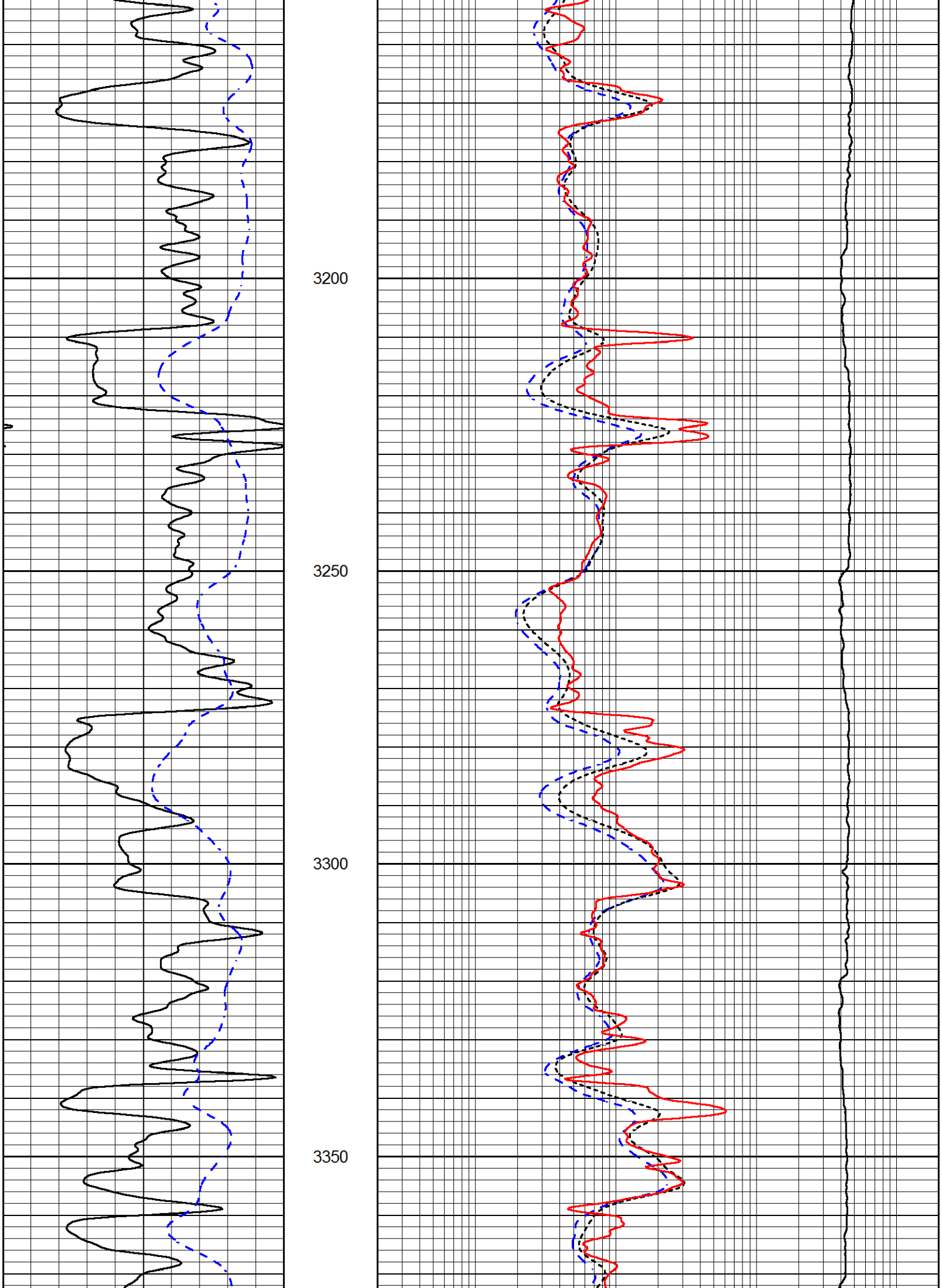
MAIN PASS

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1
Presentation Format	dil
Dataset Creation	Sat Jan 27 07:32:07 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
10000	Line Tension (lb)	0

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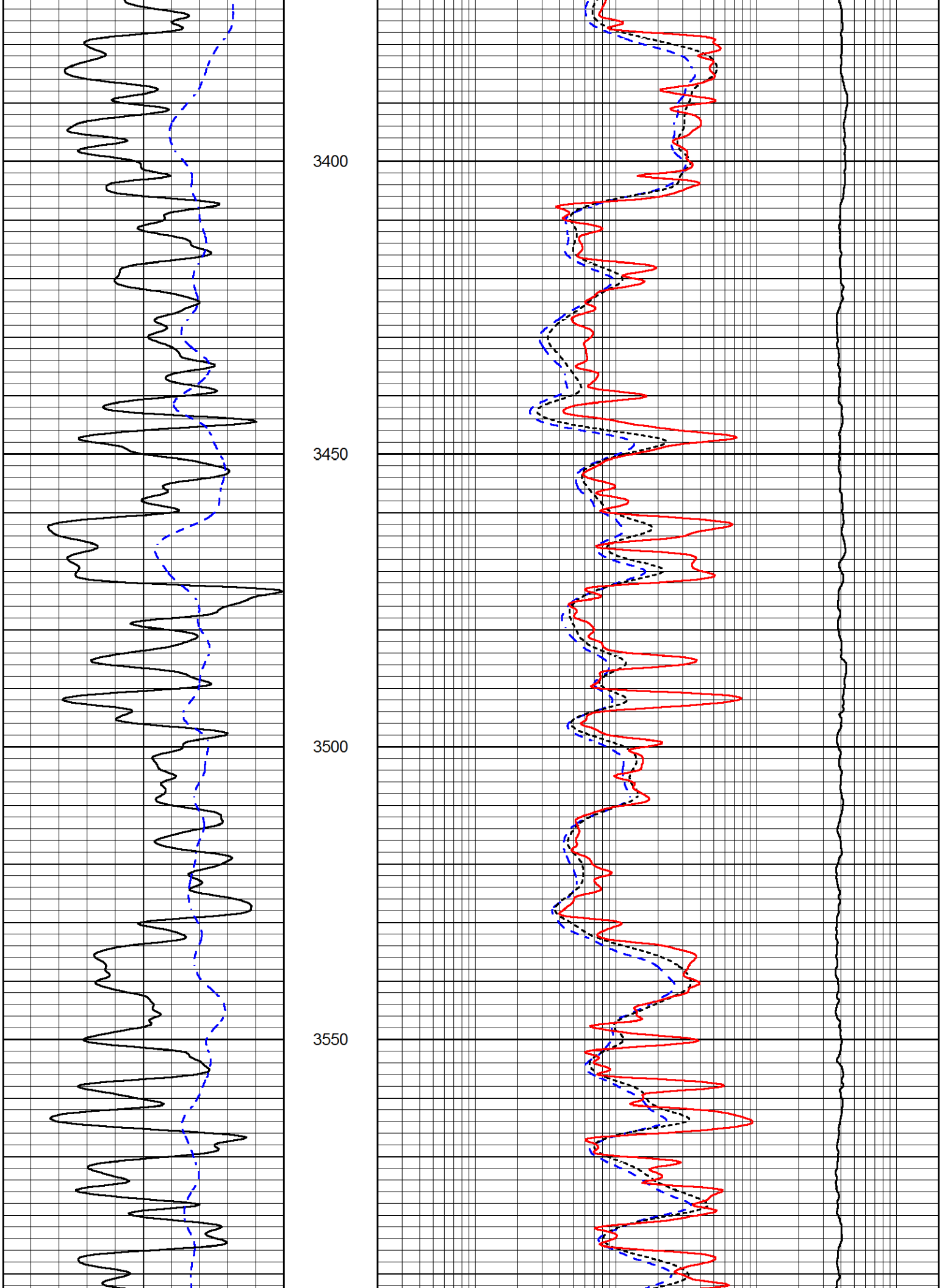
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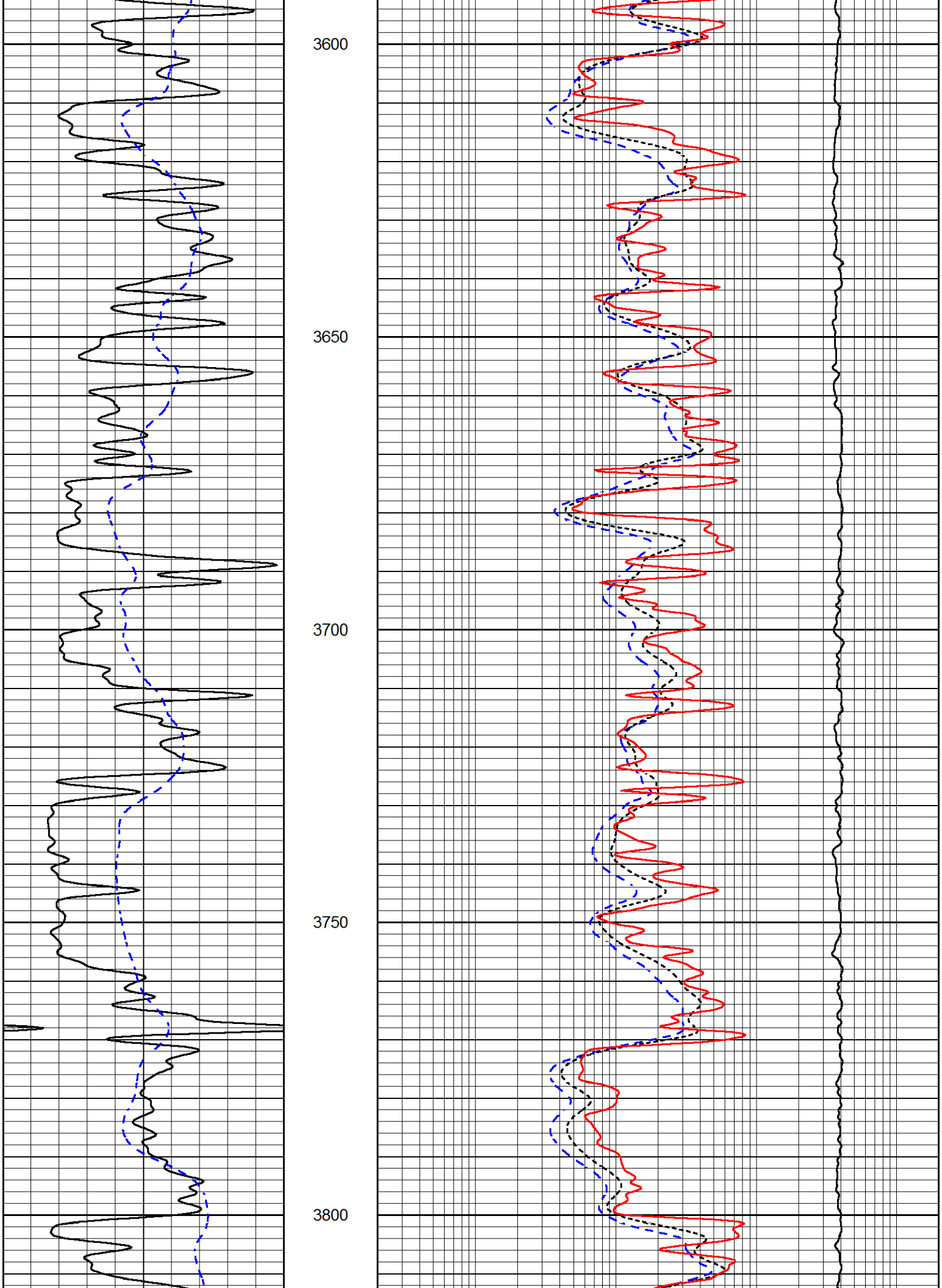
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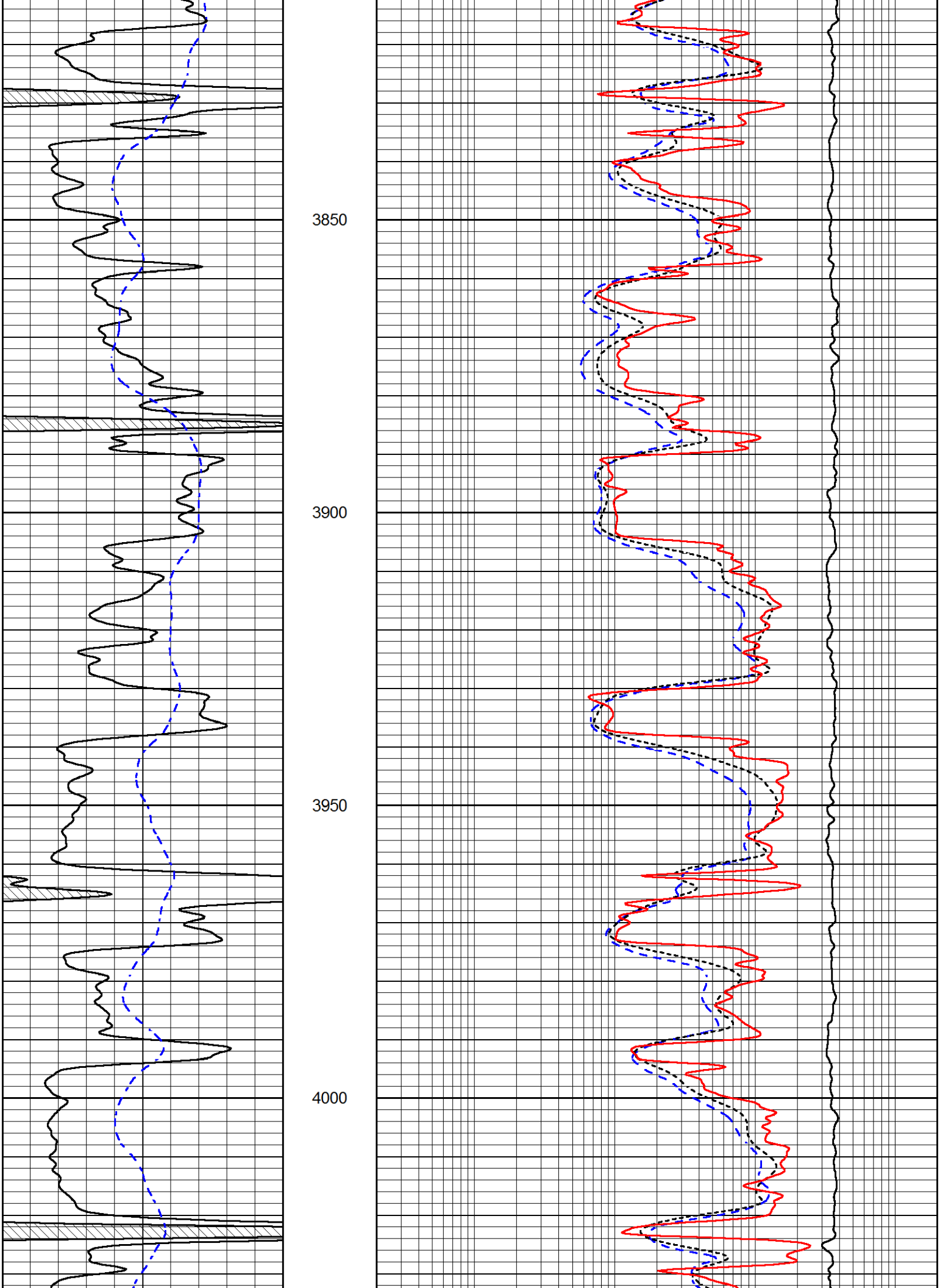
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3950
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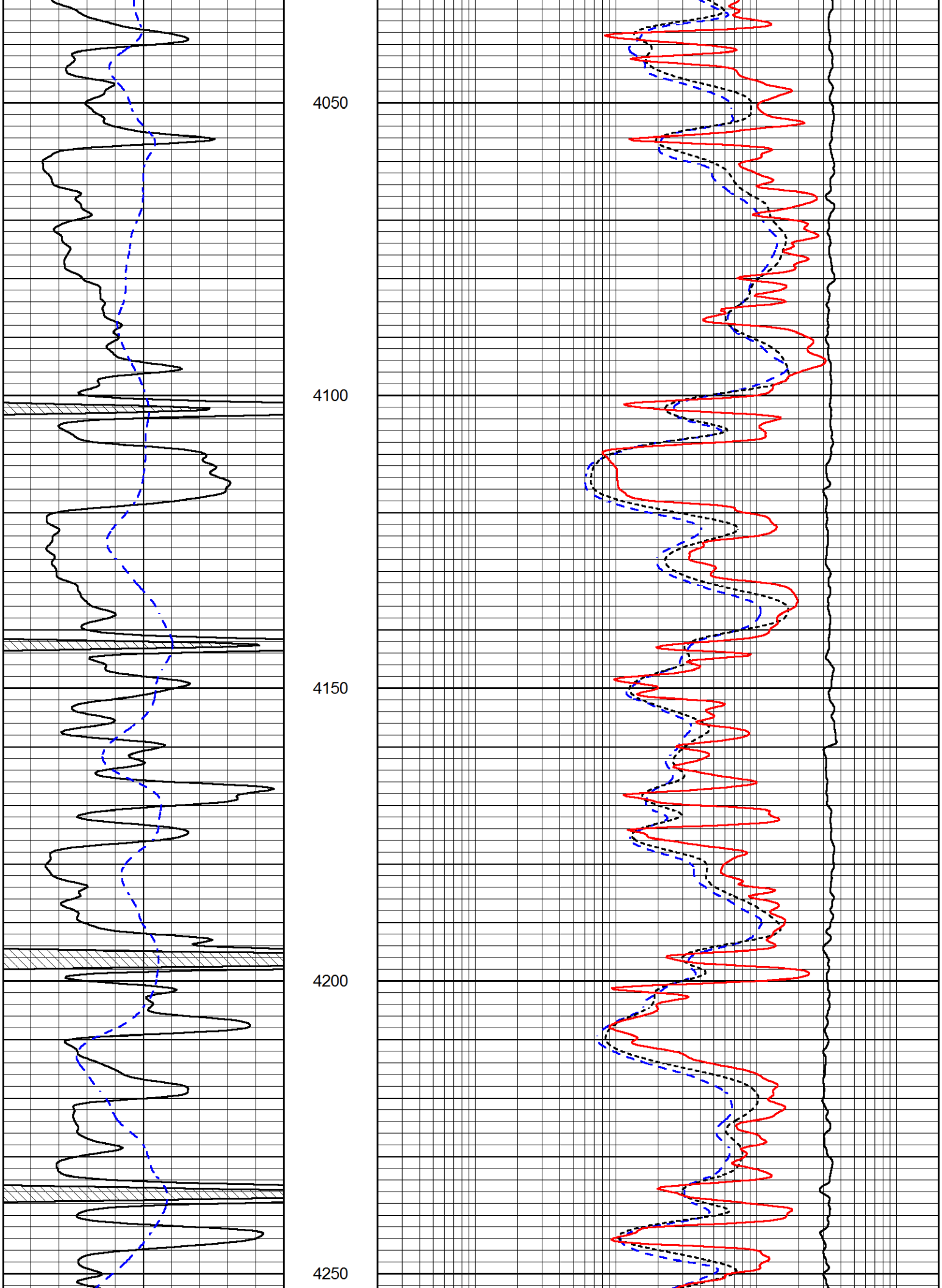
4050
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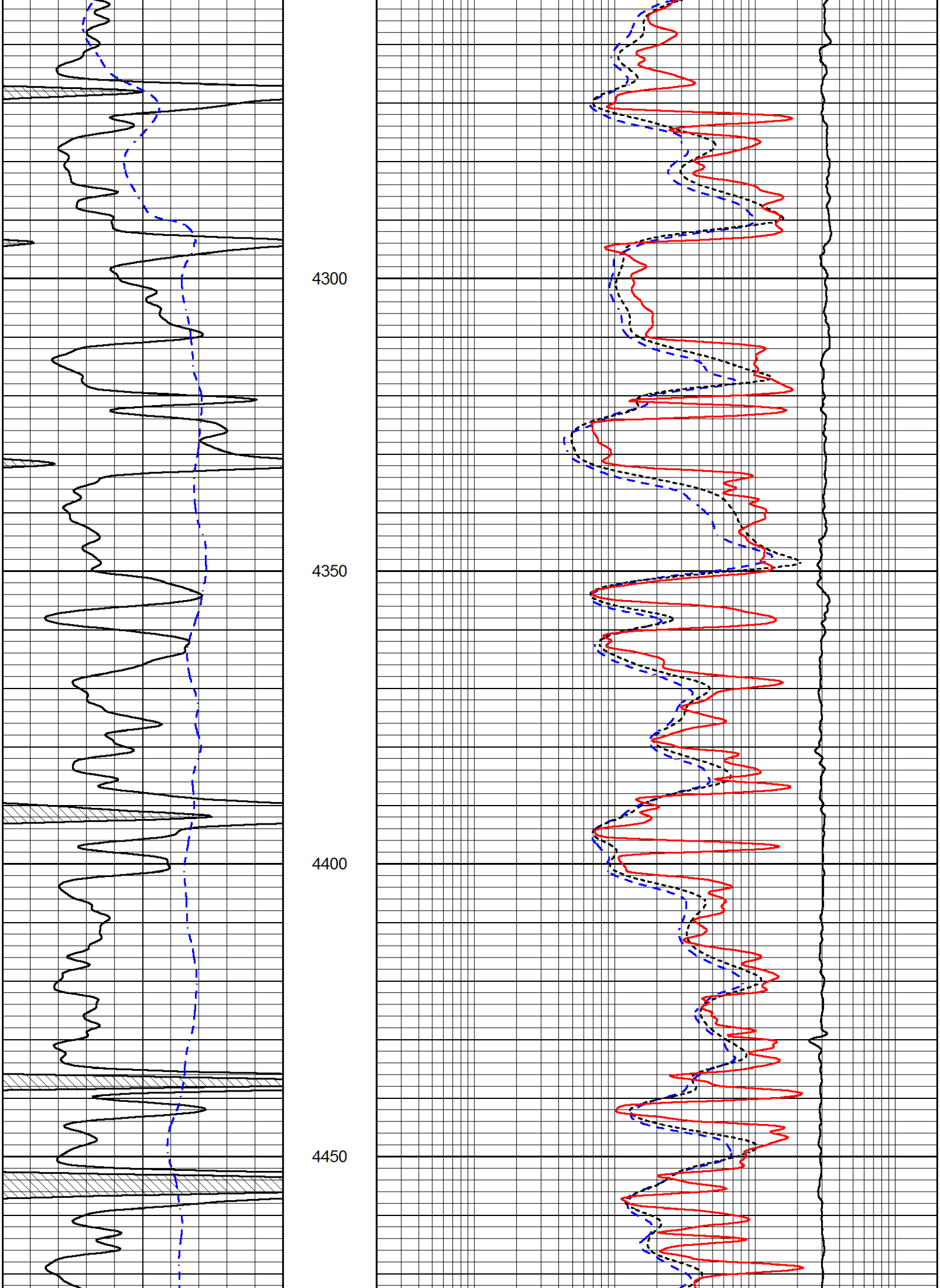
4300
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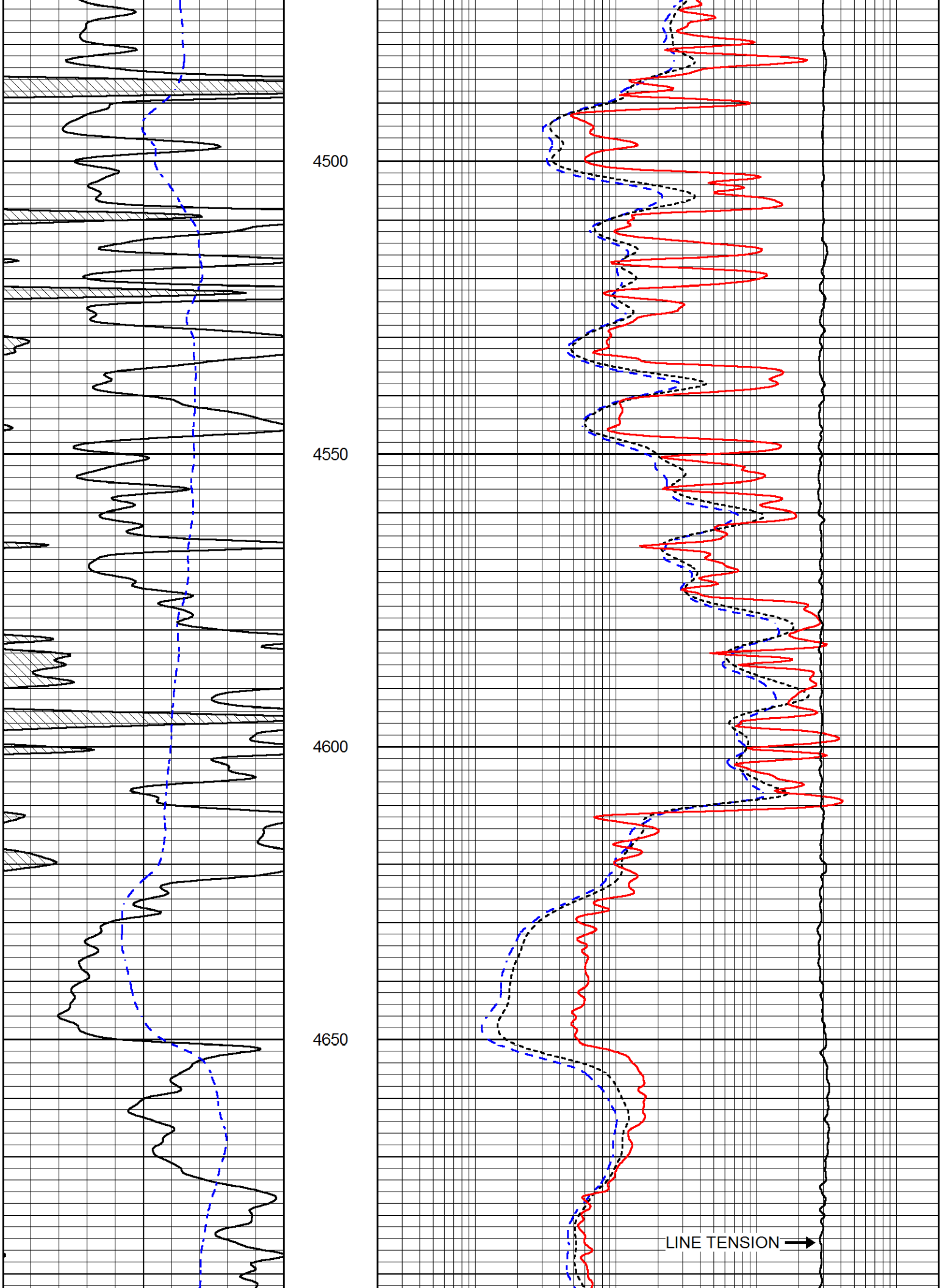
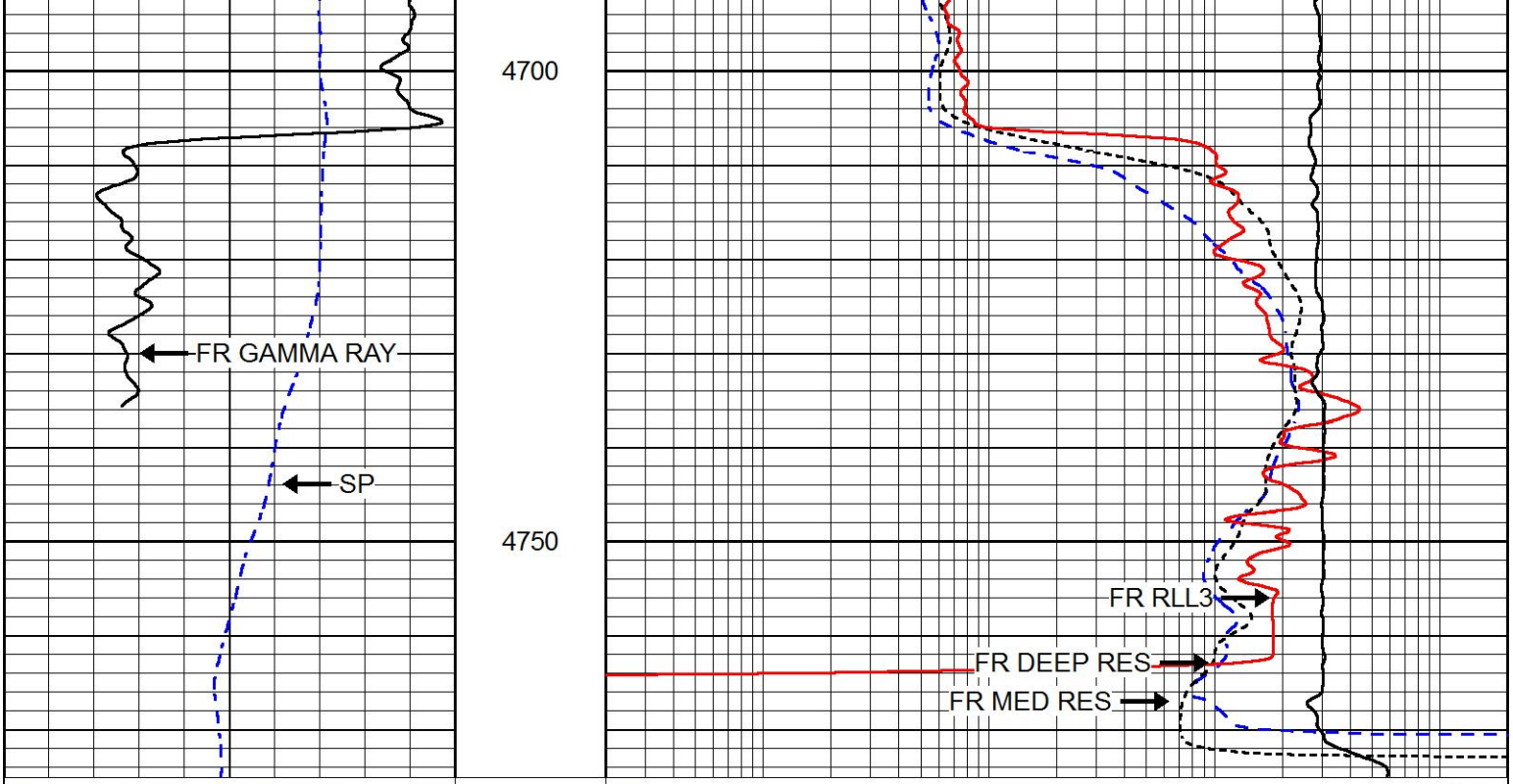

4500
4550
4600
4650
LINE TENSION



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
10000	Line Tension (lb)	0

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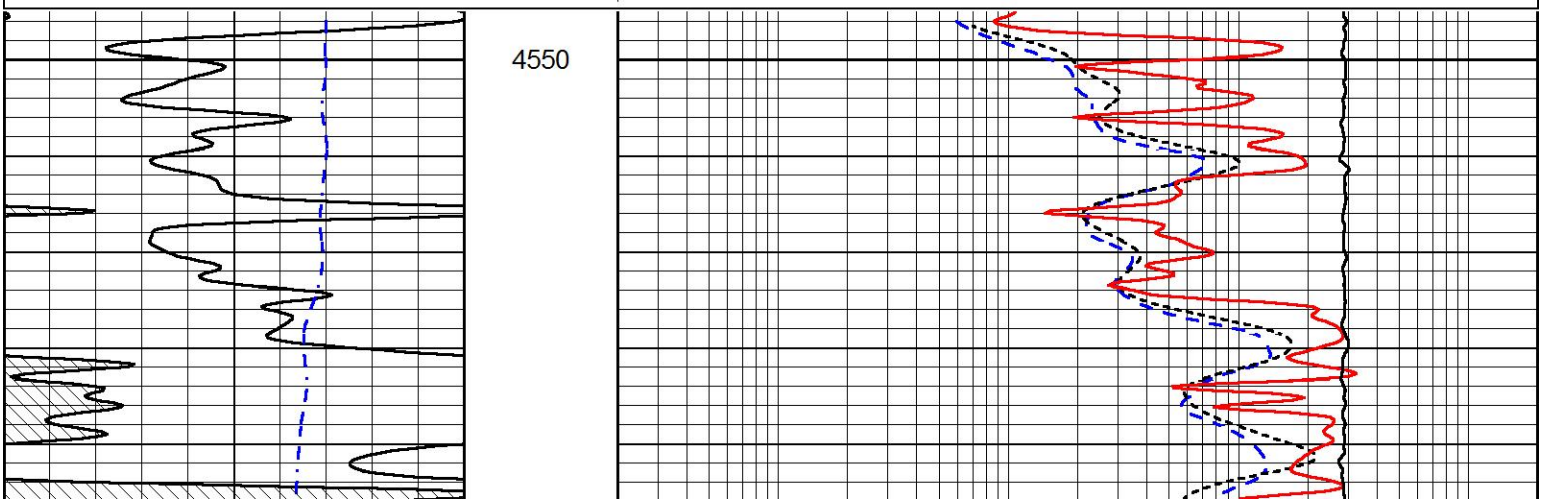
Pioneer Energy Services

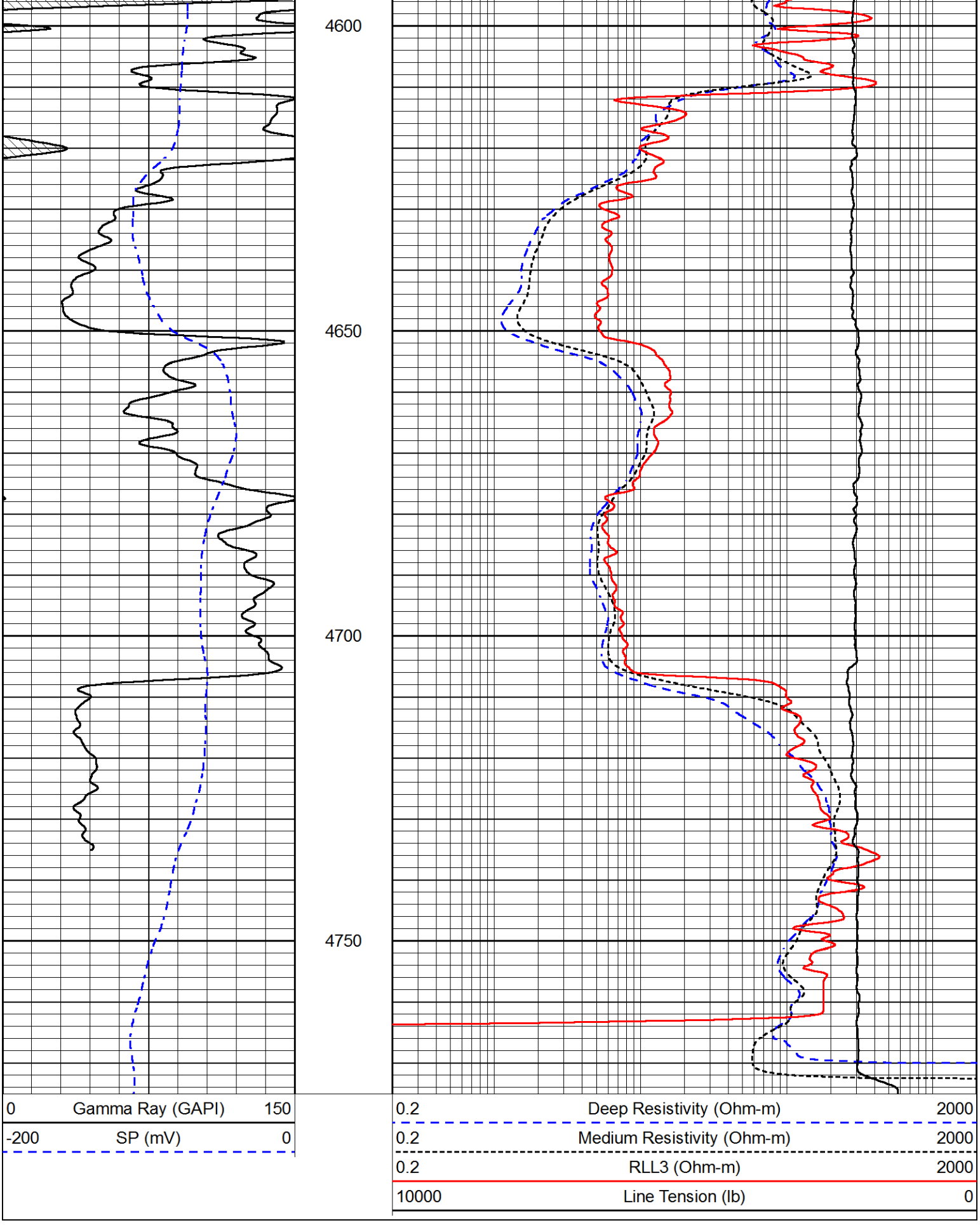
REPEAT SECTION

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass2.2
Presentation Format	dil
Dataset Creation	Sat Jan 27 07:06:54 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
10000	Line Tension (lb)	0





Calibration Report

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1
Dataset Creation	Sat Jan 27 07:32:07 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
Calibration Performed: Sat Jan 27 05:40:18 2018

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.780	-19.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.580	-62.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
Performed: Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	34000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Tue Jan 23 10:31:02 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.522

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: MON JAN 15 10:30:30 2018

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
Tool Model: M&W

Calibration Performed:	Mon Jan 15 11:20:44 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

PIONEER
Pioneer Energy Services

Company	AMERICAN WARRIOR, INC.
Well	JAY #2-35
Field	WILDCAT
County	LOGAN
State	KANSAS

PIONEER
Pioneer Energy Services

DUAL COMP POROSITY LOG

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN State KANSAS

Location: API #: 15-109-21533-00-00
1331' FSL & 806' FWL
SEC 35 TWP 13S RGE 36W

Other Services: DIL/MEL, BHCS

Elevation: K.B. 3132', D.F. N/A, G.L. 3124'

Company	AMERICAN WARRIOR, INC.
Well	JAY #2-35
Field	WILDCAT
County	LOGAN
State	KANSAS
Location:	1331' FSL & 806' FWL SEC 35 TWP 13S RGE 36W
API #:	15-109-21533-00-00
Other Services	DIL/MEL BHCS
Elevation	K.B. 3132' D.F. N/A G.L. 3124'

Date	01/27/2018
Run Number	ONE
Type Log	CNL/CDL
Depth Driller	4770'
Depth Logger	4772'
Bottom Logged Interval	4743'
Top Logged Interval	3000'
Type Fluid In Hole	CHEMICAL
Salinity, PPM CL	6000
Density	9.2
Level	FULL
Max. Rec. Temp. F	124
Operating Rig Time	5 HOURS
Equipment -- Location	91 HAYS
Recorded By	D. SCHMIDT
Witnessed By	KEVIN TIMSON
Permanent Datum	GROUND LEVEL
Elevation	3124'
Log Measured From	KELLY BUSHING
Drilling Measured From	KELLY BUSHING

Borehole Record

Run No.	Bit	From	To
ONE	12.250"	0'	221'
TWO	7.875"	221'	TD

Casing Record

Size	Wgt.	From	To
8.625"	23#	0'	221'

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

RUSSELL SPRINGS,
1 SOUTH, 6 WEST,
SOUTH INTO ABOUT A MILE (KEEP RIGHT AT THE V)

Log Measured From: KELLY BUSHING 8 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: D. SCHMIDT	Primary Witness: KEVIN TIMSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\americanwarrior_jay#2-35.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-130	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	30	0	5.5	0	4771	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (227-771)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					

CILD	8.00	DIL-PSI HIGH TEMP (933 (HT))	18.50	3.50	220.00
CILM	4.70				
SP	0.20				

Dataset:	americanwarrior_jay#2-35.db: field/well/STKML/pass3.1
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

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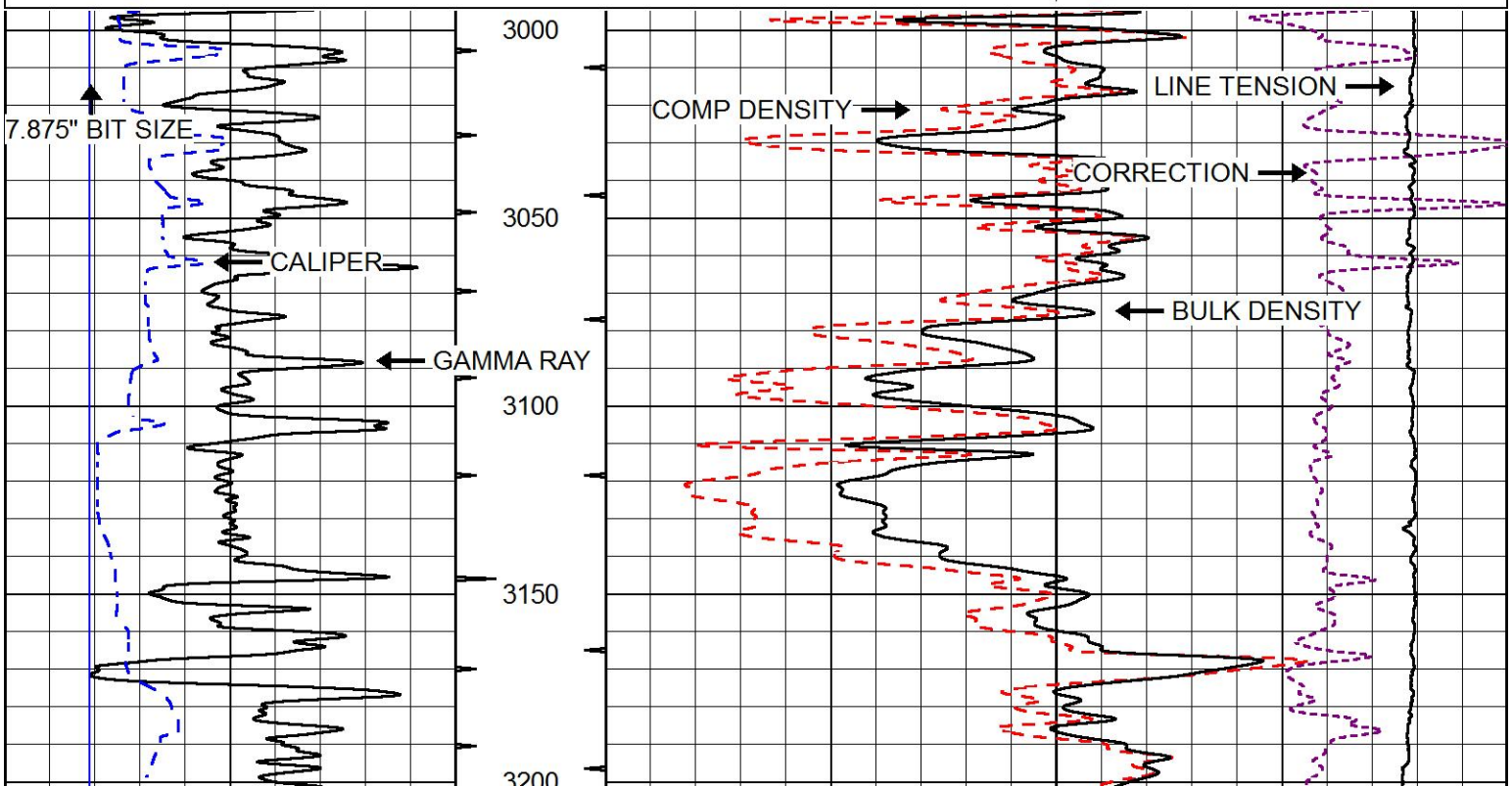
MAIN PASS

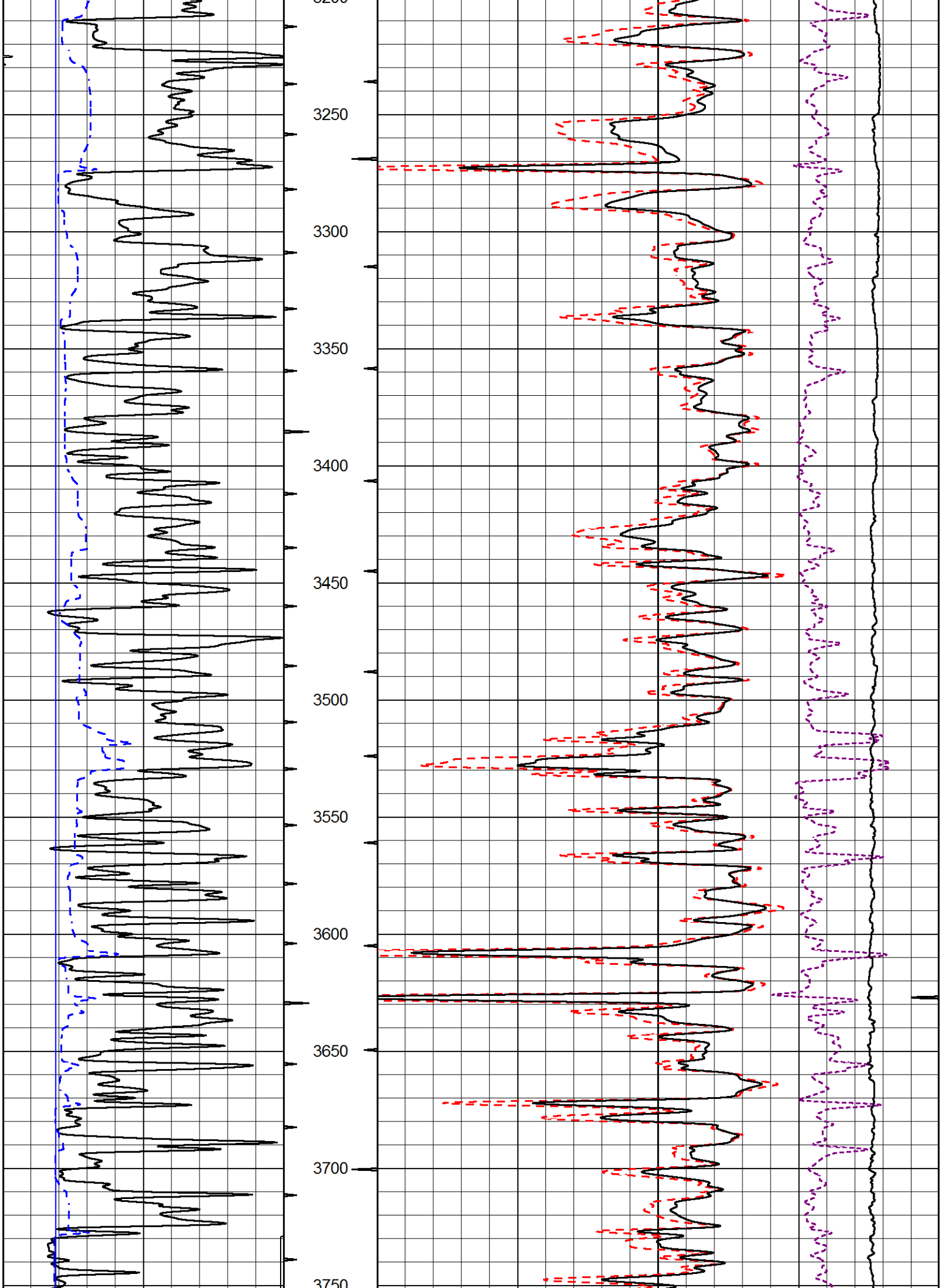
Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1
Presentation Format	cdl
Dataset Creation	Sat Jan 27 07:32:07 2018
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

Compensated Density
(2.71 MA)

30	(pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

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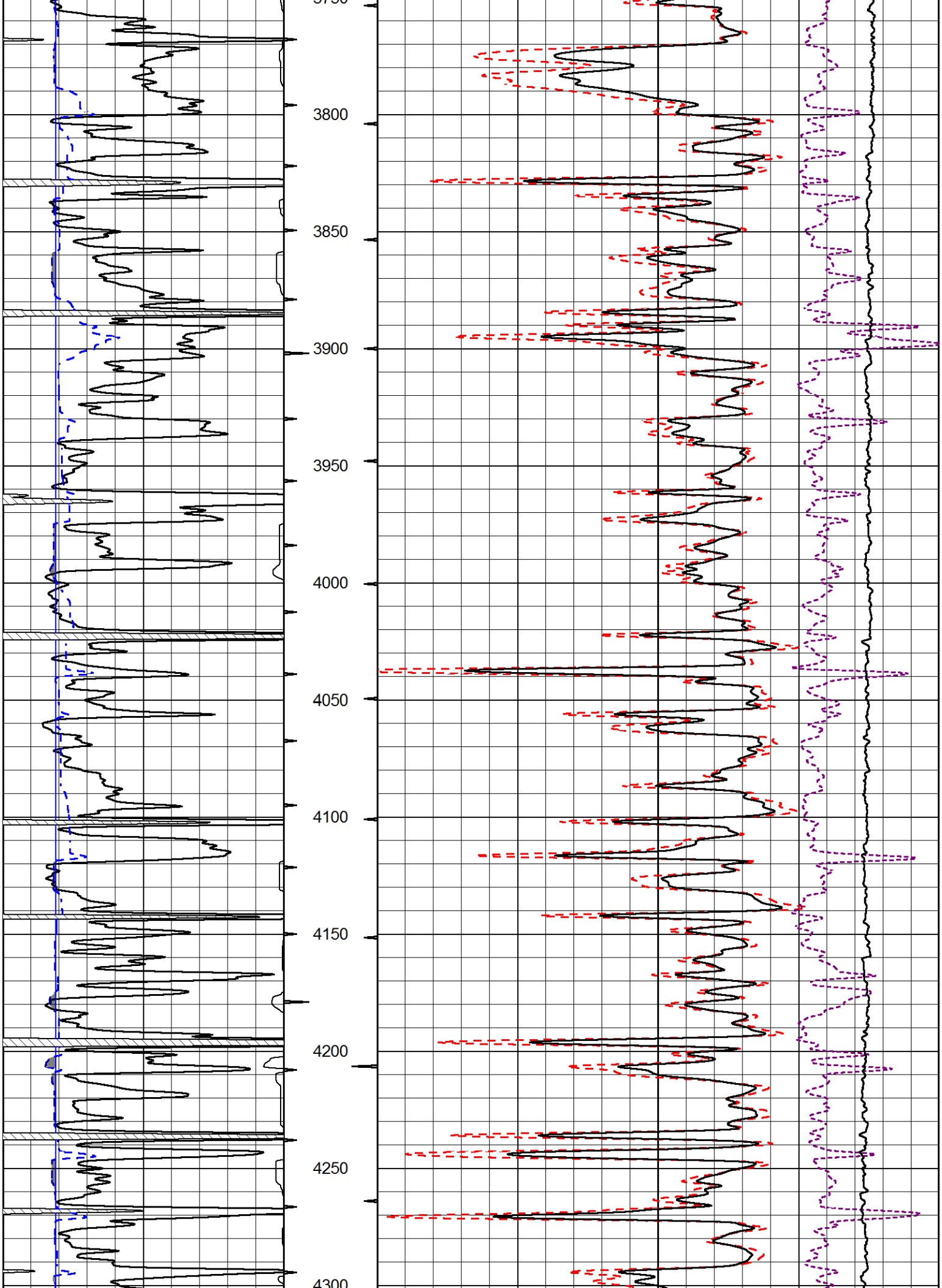
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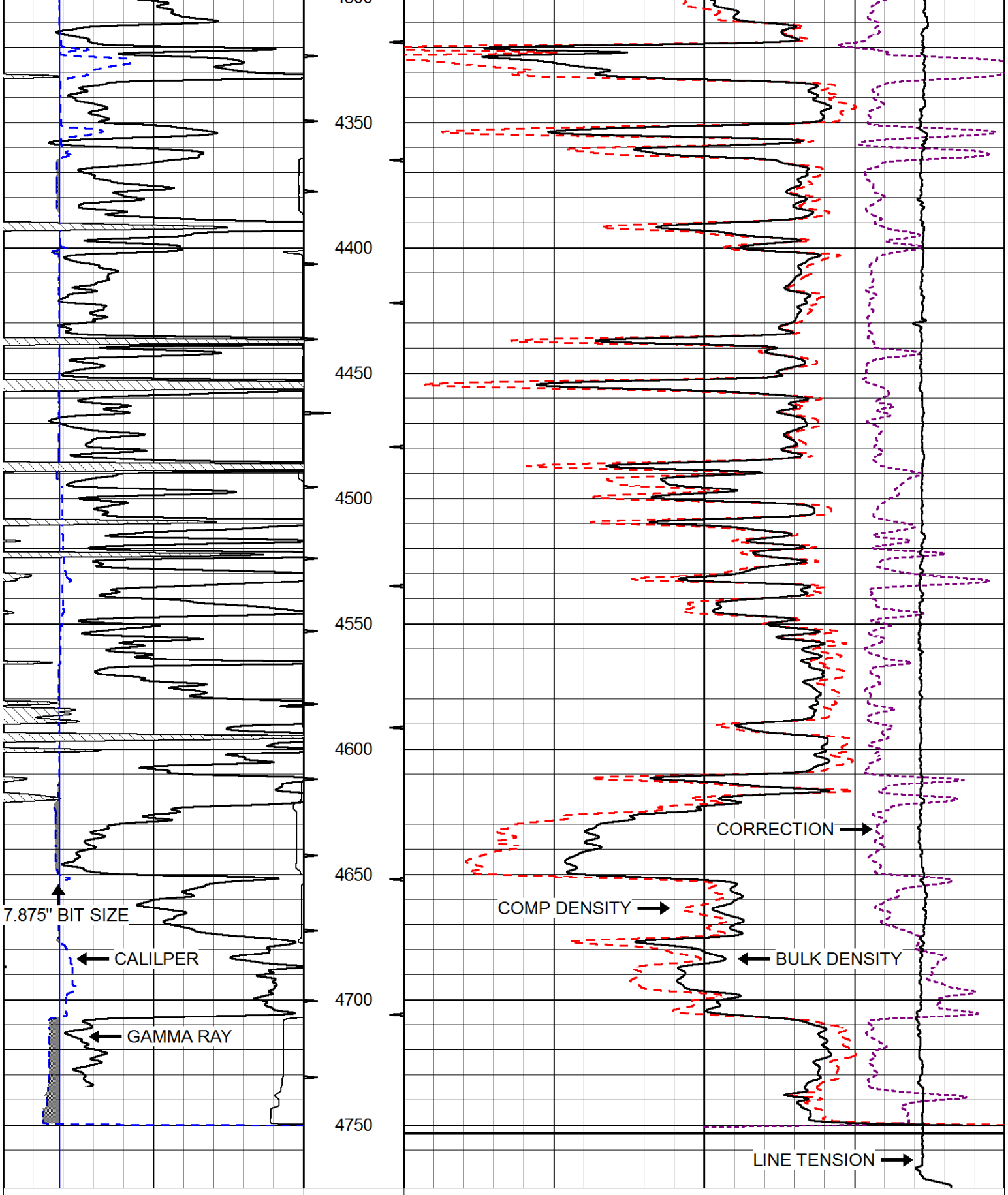


0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

Compensated Density
(2.71 MA)

30	(pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

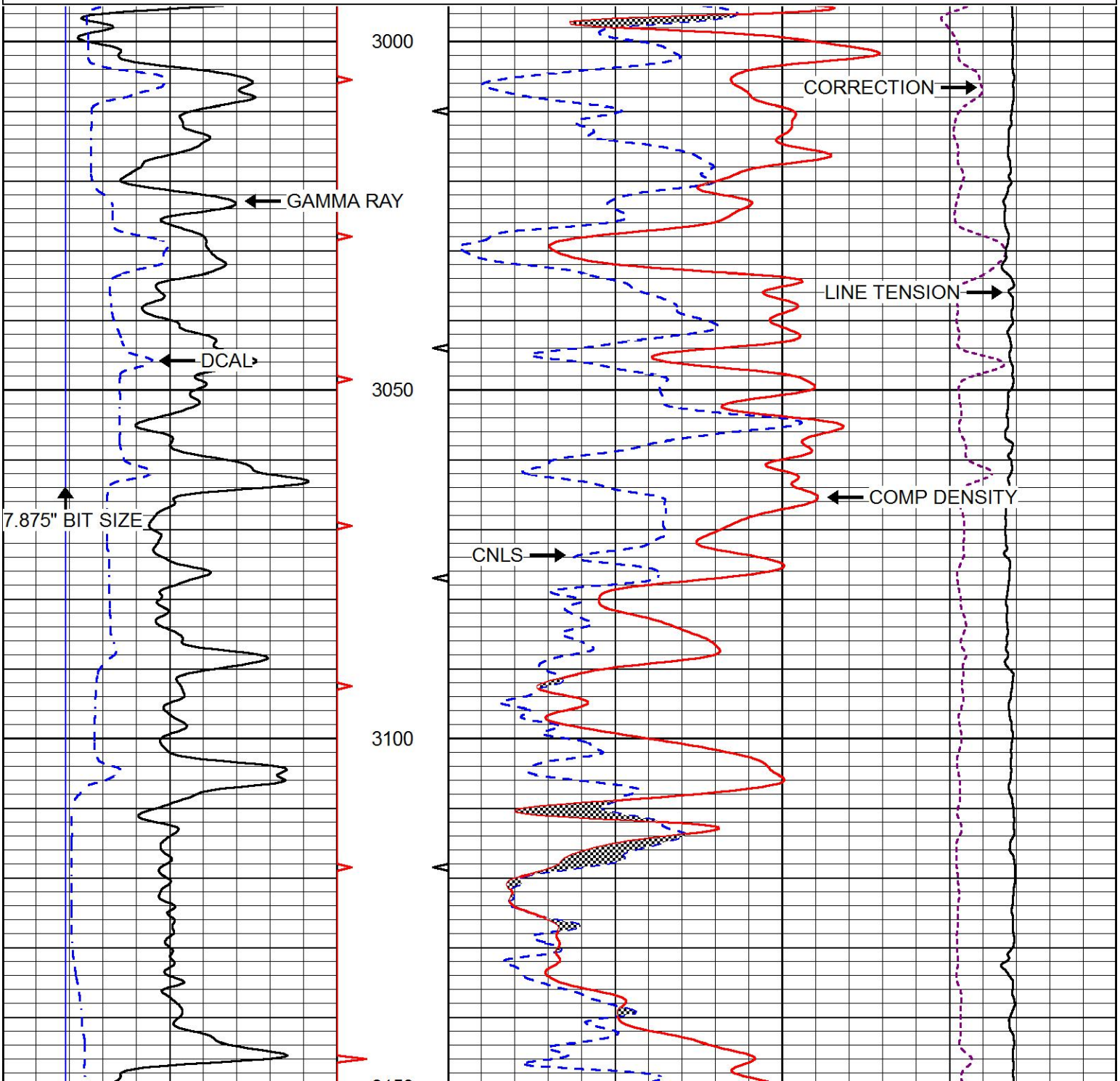
PIONEER
Pioneer Energy Services

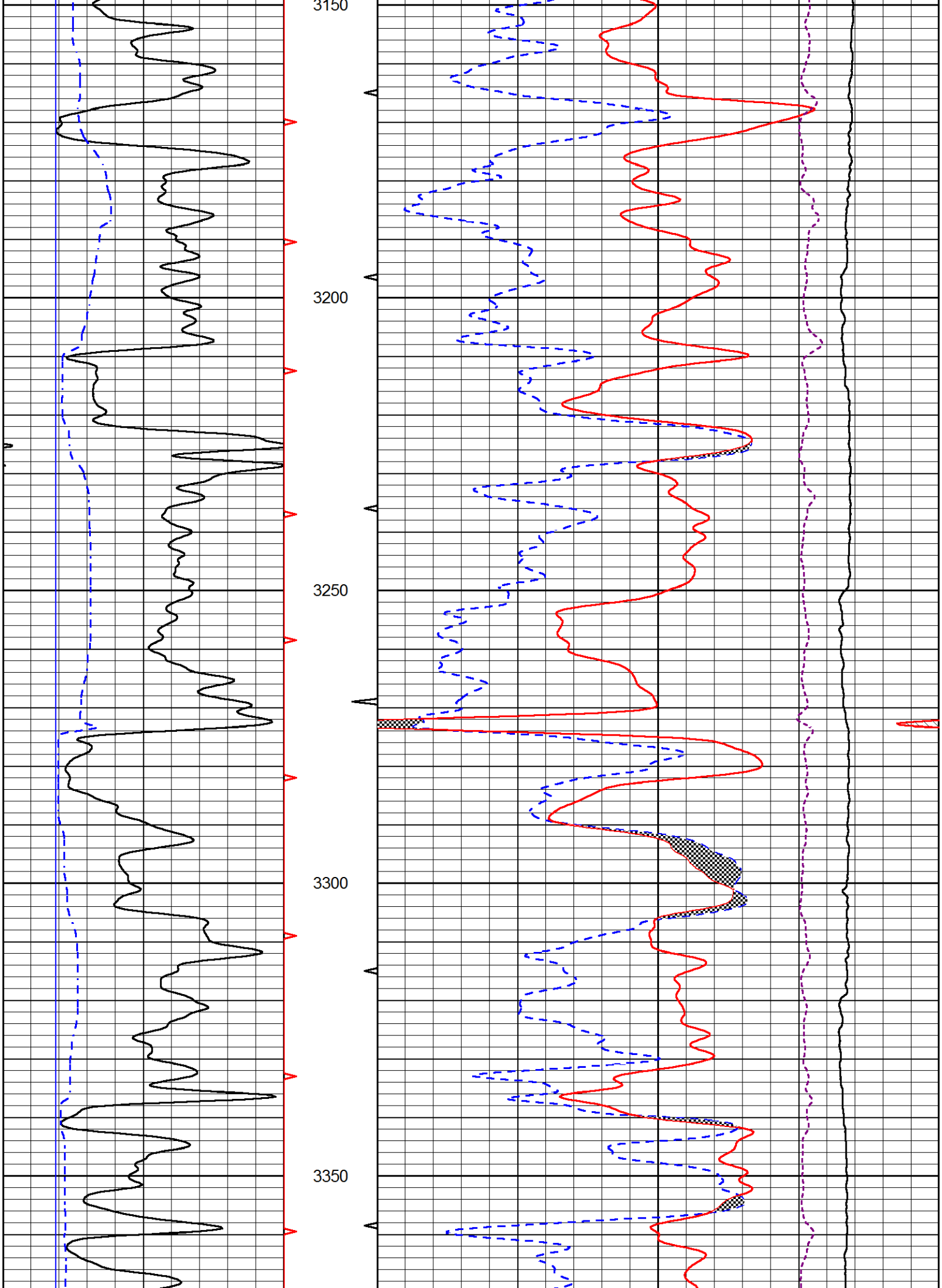
MAIN PASS

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1
Presentation Format	cndlspec
Dataset Creation	Sat Jan 27 07:32:07 2018
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	DCAL (in)	16

30	CNLS (pu)	-10
30	Compensated Density 2.71 g/cc (pu)	-10
10000	Line Tension (lb)	0
-0.75	Correction (g/cc)	0.75

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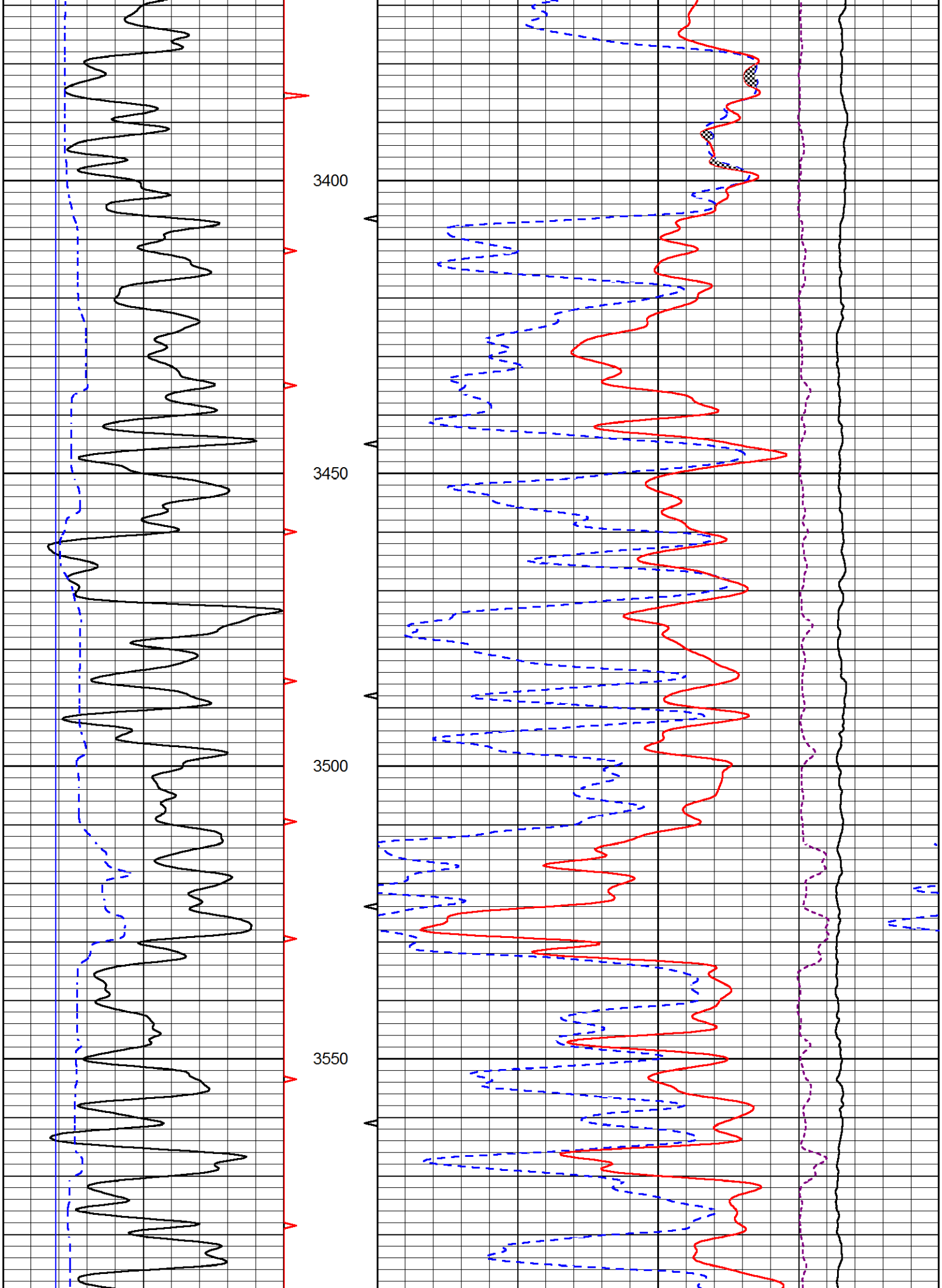
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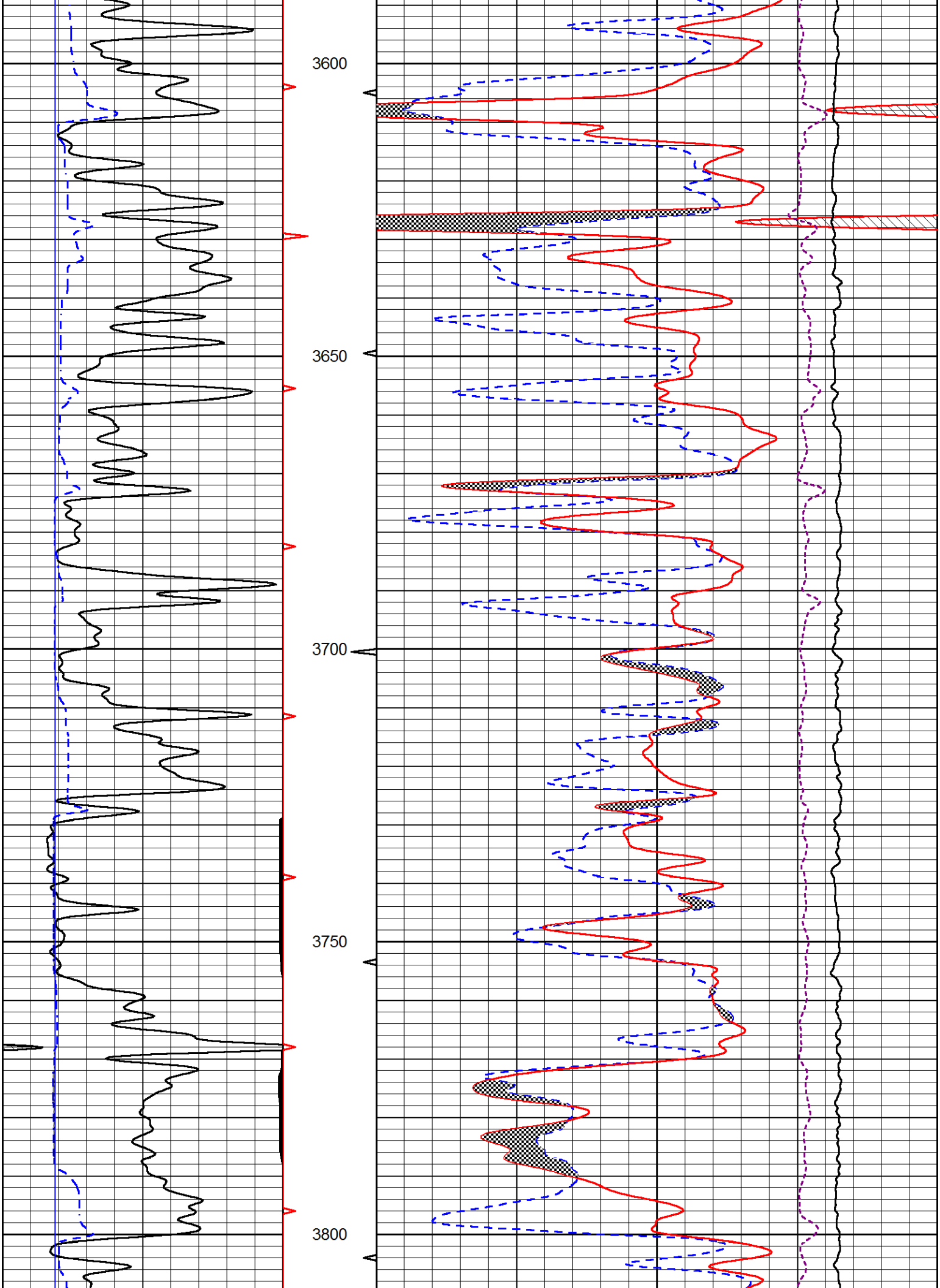
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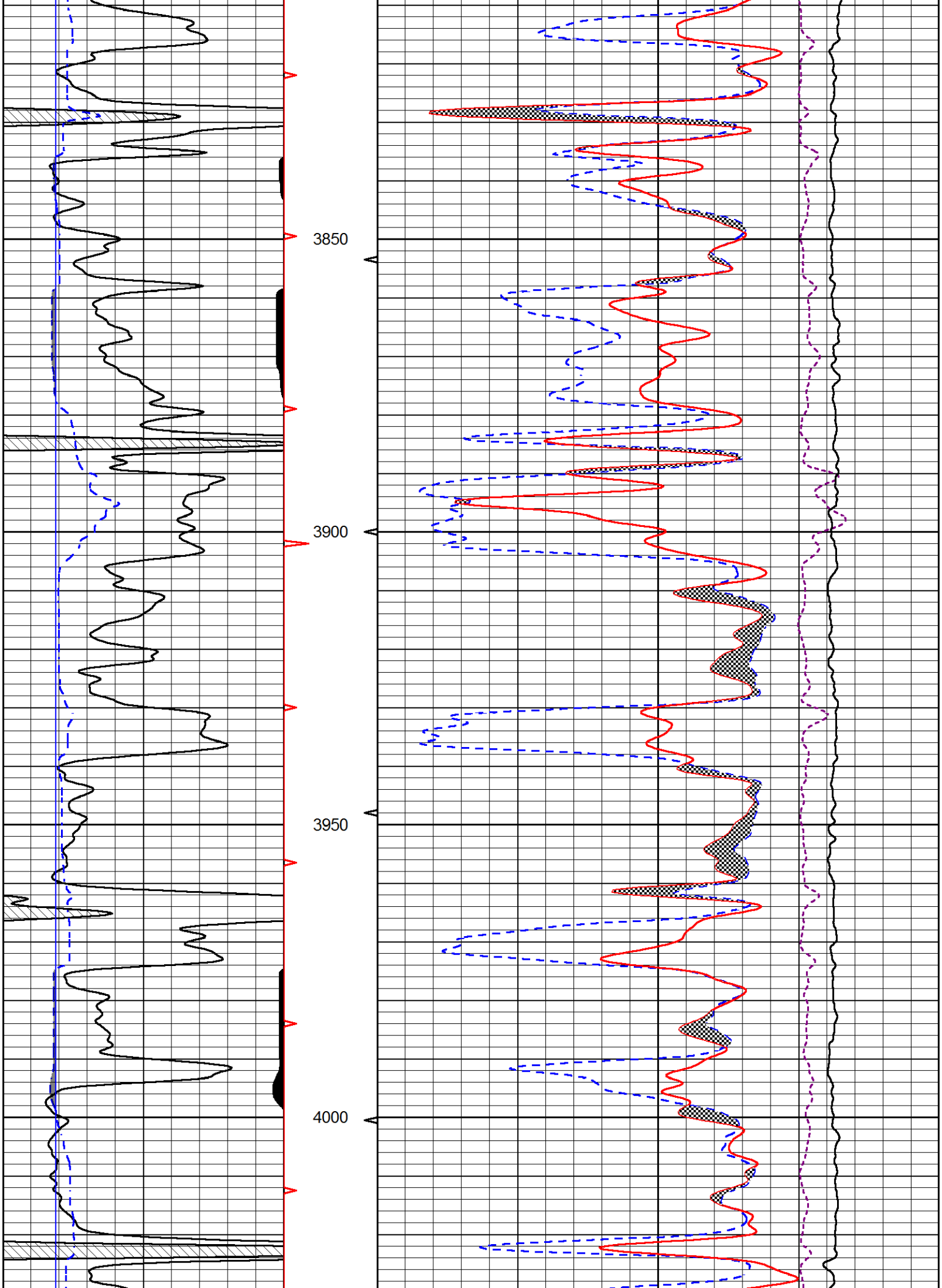
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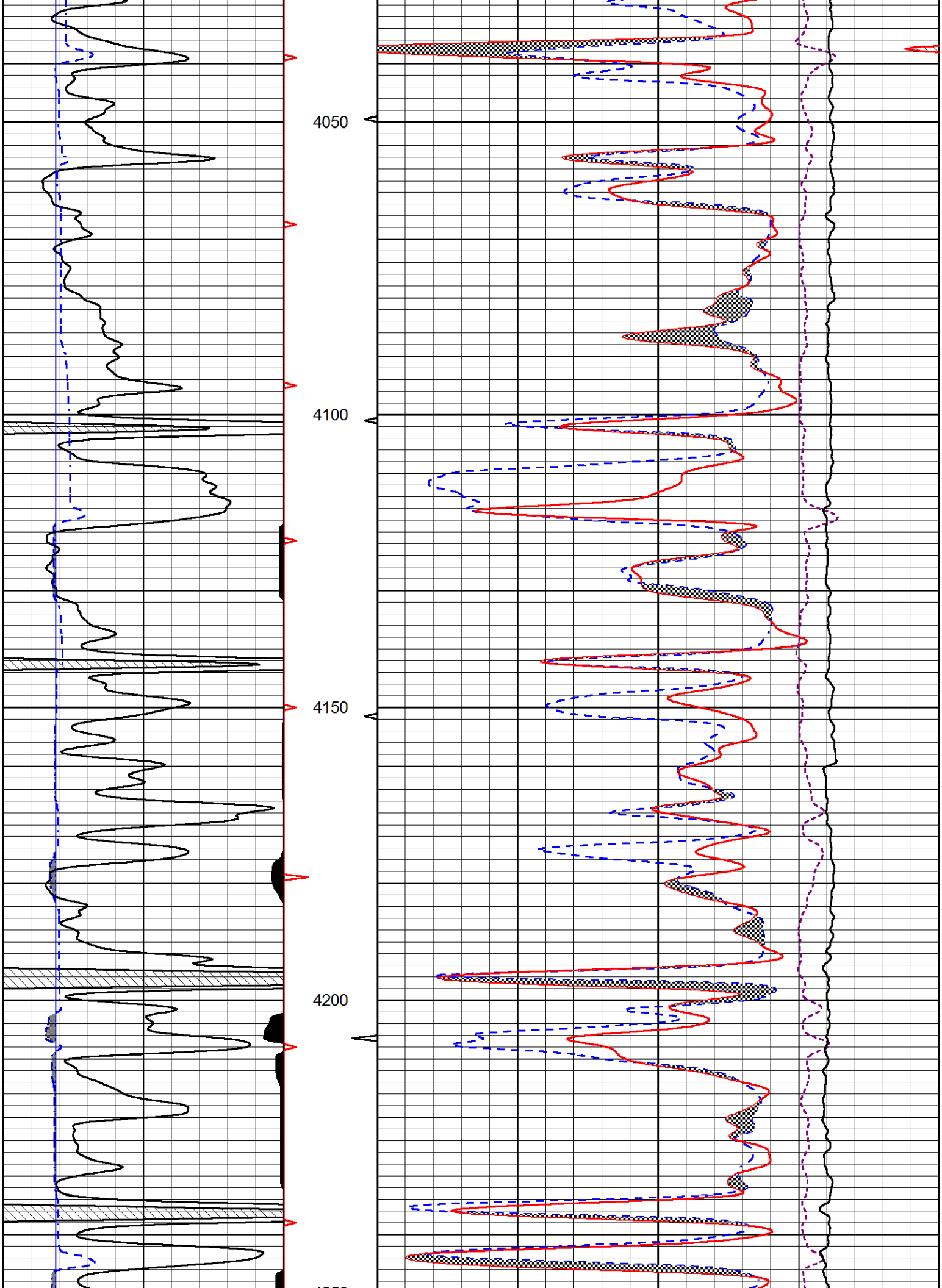
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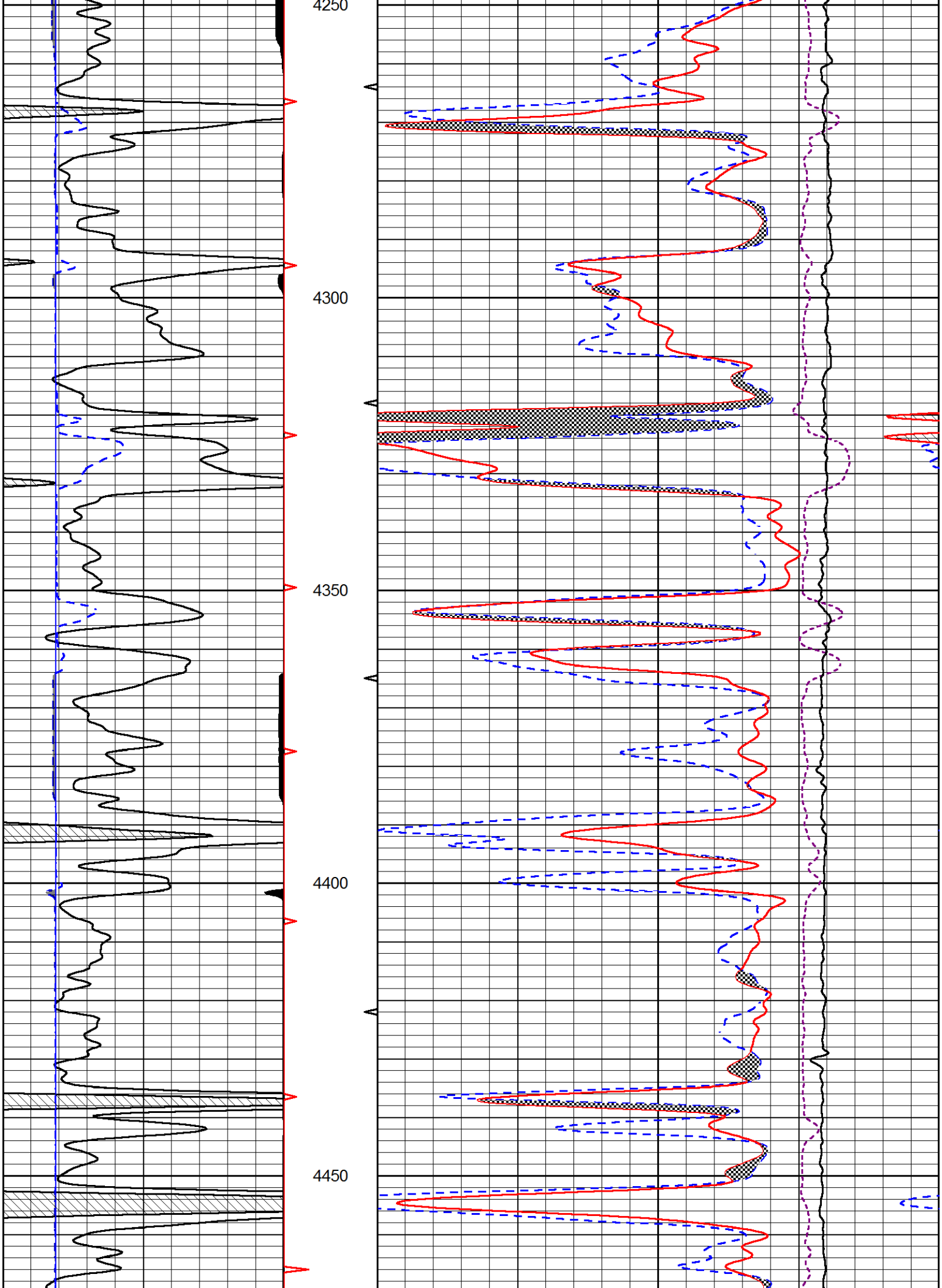
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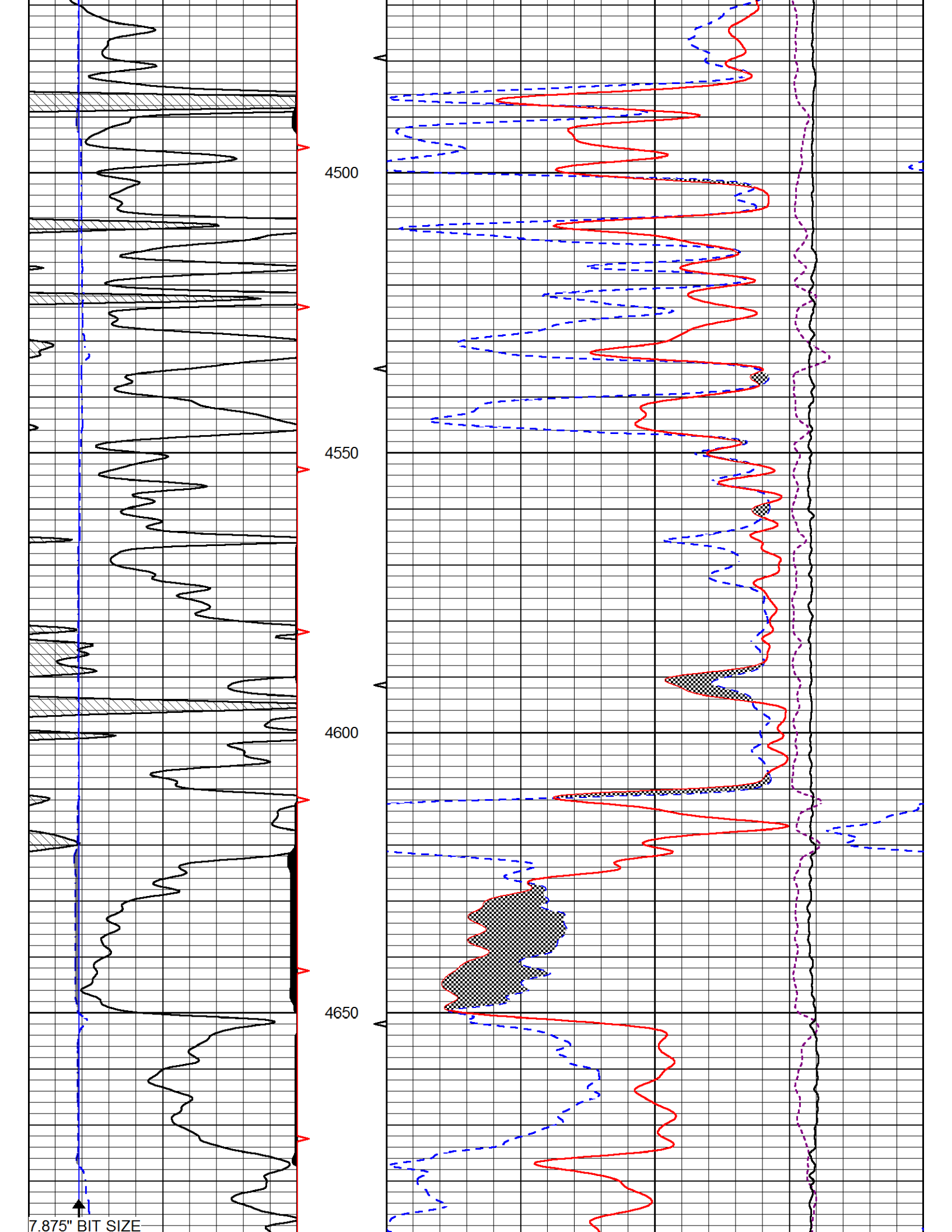
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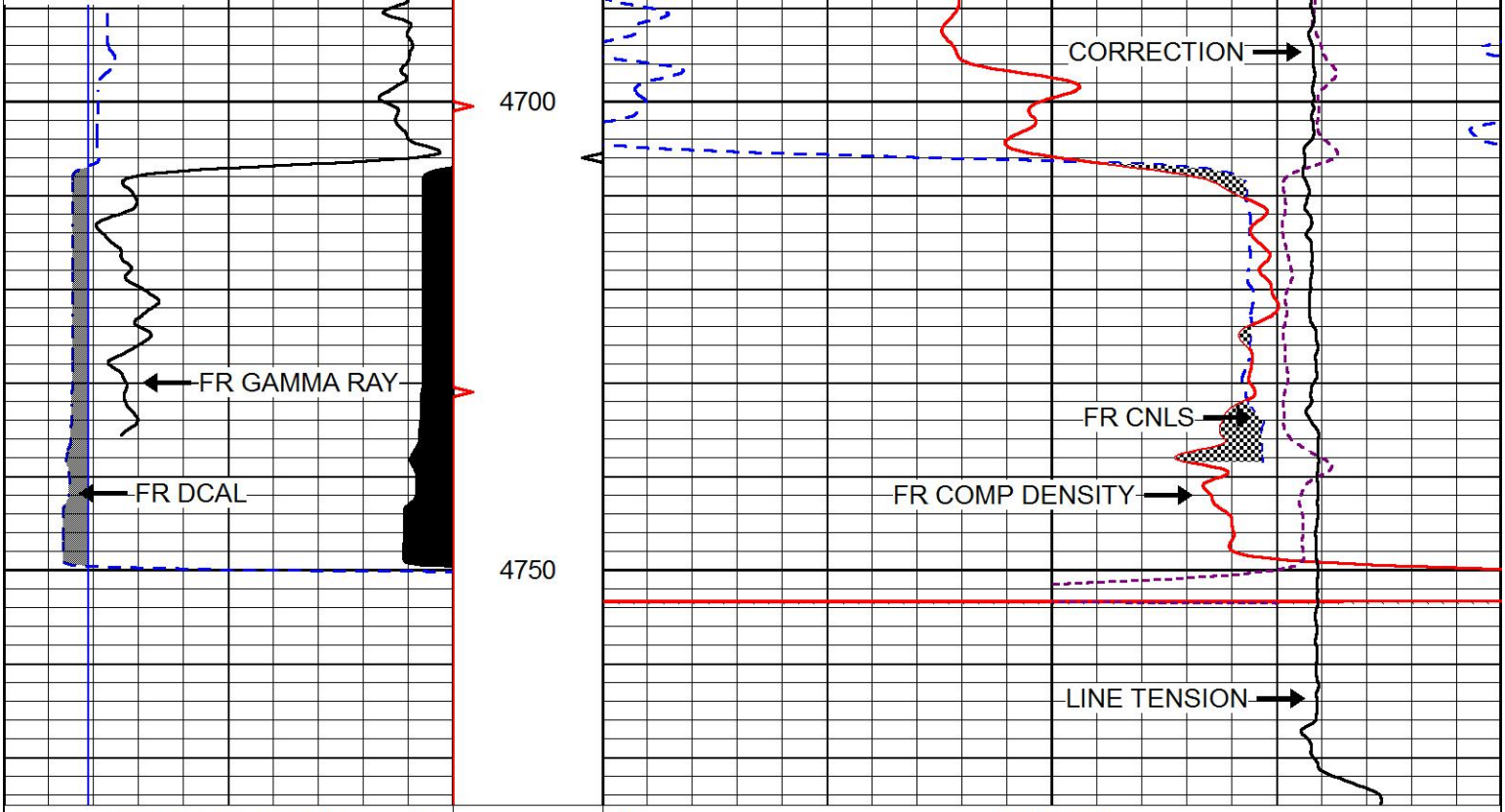
4550
4600
4650
7.875" BIT SIZE



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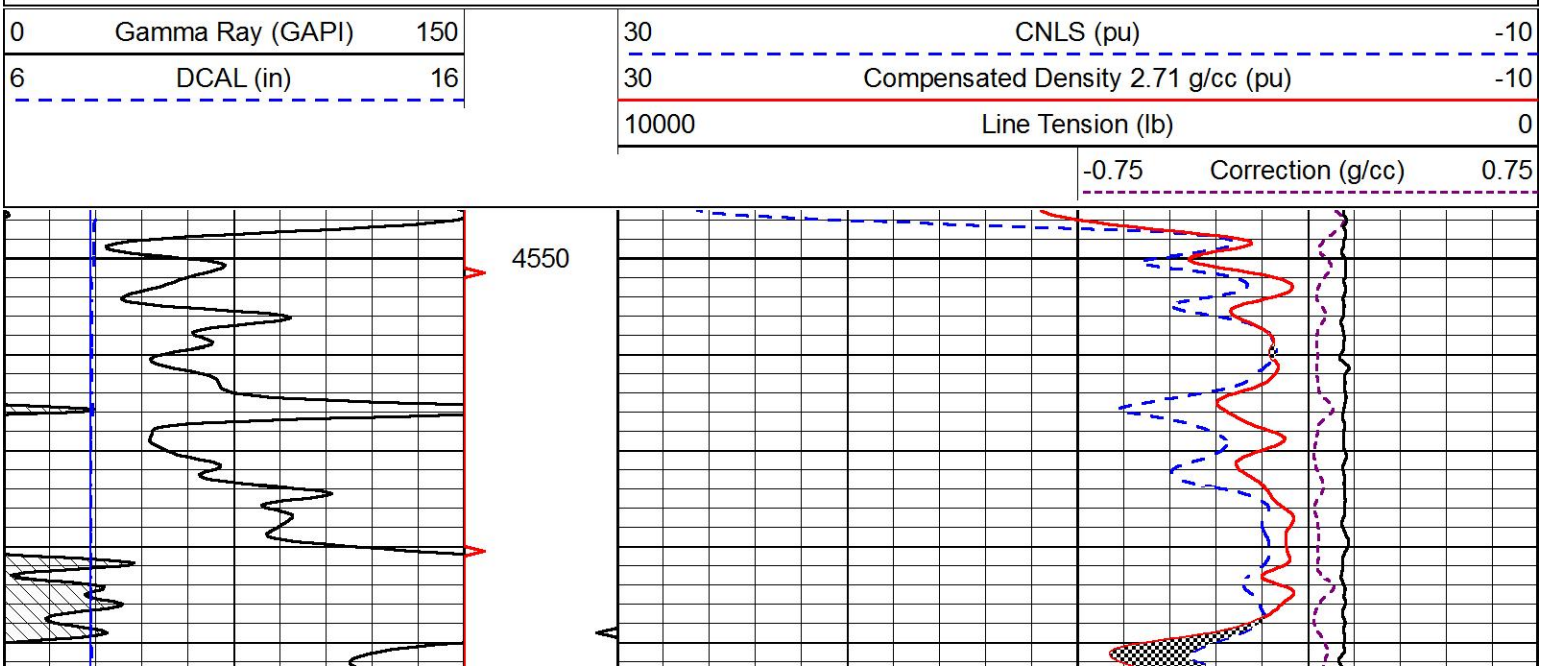
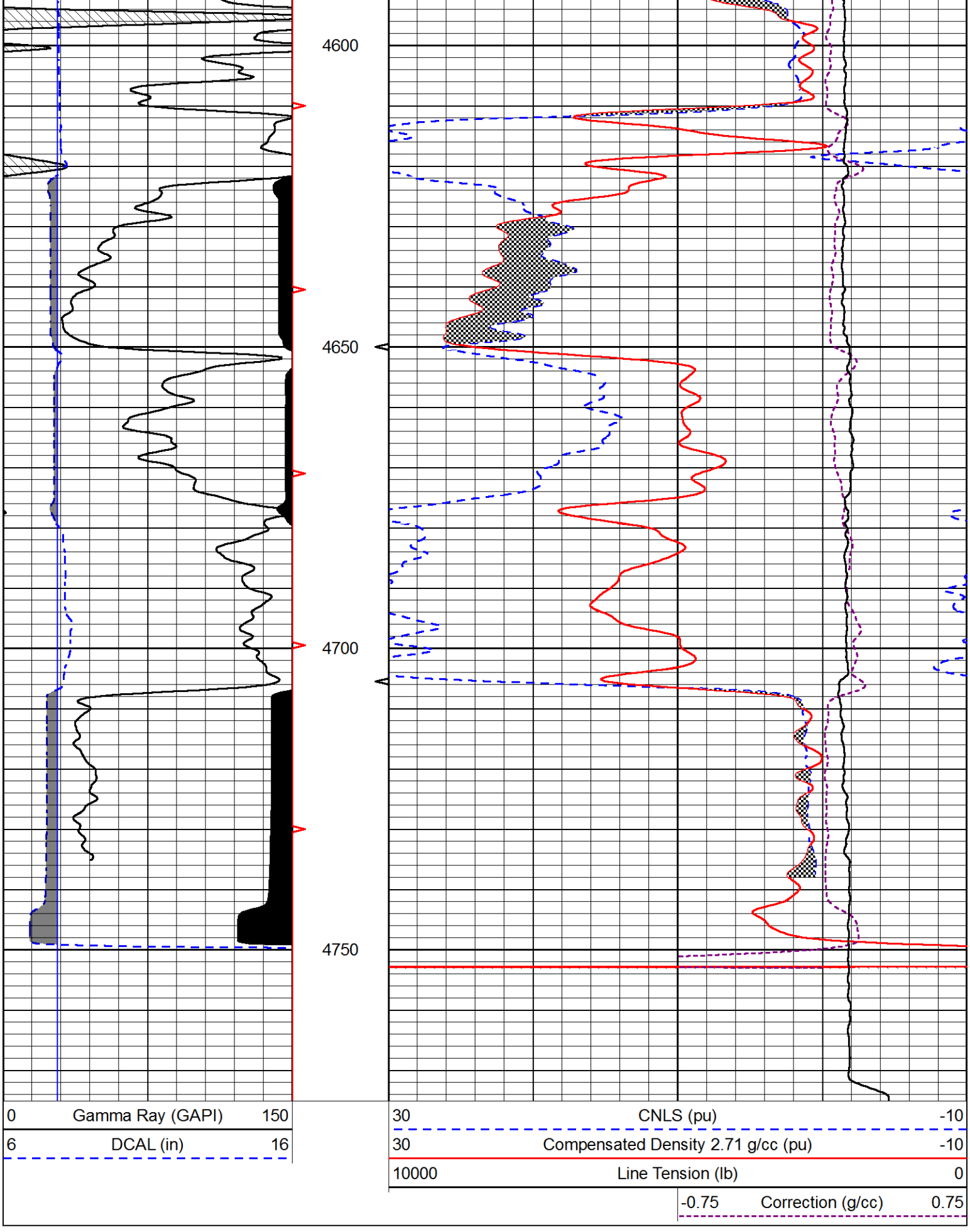
REPEAT SECTION

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass2.2
Presentation Format	cndlspec
Dataset Creation	Sat Jan 27 07:06:54 2018
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1

Dataset Creation Sat Jan 27 07:32:07 2018

Dual Induction Calibration Report

Serial-Model: 933 (HT)-PSI HIGH TEMP
Calibration Performed: Sat Jan 27 05:40:18 2018

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.780	-19.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.580	-62.000

Microlog Calibration Report

Serial-Model: PSI-01-PSIML
Performed: Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	34000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model: 227-771-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Tue Jan 23 10:31:02 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps
Aluminum	2.665	g/cc	911.94	4081.94	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.522

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: MON JAN 15 10:30:30 2018

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

Tool Model:	M&W	
Calibration Performed:	Mon Jan 15 11:20:44 2018	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.6000	GAPI/cps

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Company	AMERICAN WARRIOR, INC.
Well	JAY #2-35
Field	WILDCAT
County	LOGAN
State	KANSAS

PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN State KANSAS
Location: API # : 15-109-21533-00-00
1331' FSL & 806' FWL
SEC 35 TWP 13S RGE 36W

Other Services: CNL/CDL, DIL/BHCS

Permanent Datum: GROUND LEVEL Elevation 3124'
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Elevation: K.B. 3132', D.F. N/A, G.L. 3124'

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN
State KANSAS

Date	01/27/2018			
Run Number	ONE			
Depth Driller	4770'			
Depth Logger	4772'			
Bottom Logged Interval	4771'			
Top Log Interval	3000'			
Casing Driller	8.625" @ 221'			
Casing Logger	219'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity,ppm CL	6000			
Density / Viscosity	9.2 / 63			
pH / Fluid Loss	11.0 / 8.0			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.40 @ 40			
Rmf @ Meas. Temp	0.30 @ 40			
Rmc @ Meas. Temp	0.54 @ 40			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.13 @ 124			
Operating Rig Time	5 HOURS			
Max Rec. Temp. F	124			
Equipment Number	91			
Location	HAYS			
Recorded By	D. SCHMIDT			
Witnessed By	KEVIN TIMSON			

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

RUSSELL SPRINGS,
1 SOUTH, 6 WEST,
SOUTH INTO ABOUT A MILE (KEEP RIGHT AT THE V)

Log Measured From: KELLY BUSHING 8 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: D. SCHMIDT	Primary Witness: KEVIN TIMSON
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

Database C:\ProgramData\Warrior\Data\americanwarrior_jay#2-35.db
Dataset field/well/STKML/pass3.1/_vars_

Top - Bottom

M	A	SZCOR	NPORSEL	FLUIDDEN g/cc	MATRXDEN g/cc	SPSHIFT mV	SNDERRM mmho/m
2	1	Off	Limestone	1	2.71	-130	0

SNDERR mmho/m	SRFTEMP degF	CASETHCK in	CASEOD in	PERFS	TDEPTH ft	BOTTEMP degF	BOREID in
0	30	0	5.5	0	4771	124	7.875

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.58		GR-M&W (89)	3.00	3.50	50.00
CNLSC	37.48		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (227-771)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					

			DIL-PSI HIGH TEMP (933 (HT))	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset:	americanwarrior_jay#2-35.db: field/well/STKML/pass3.1
Total length:	43.08 ft
Total weight:	685.00 lb
O.D.:	4.00 in

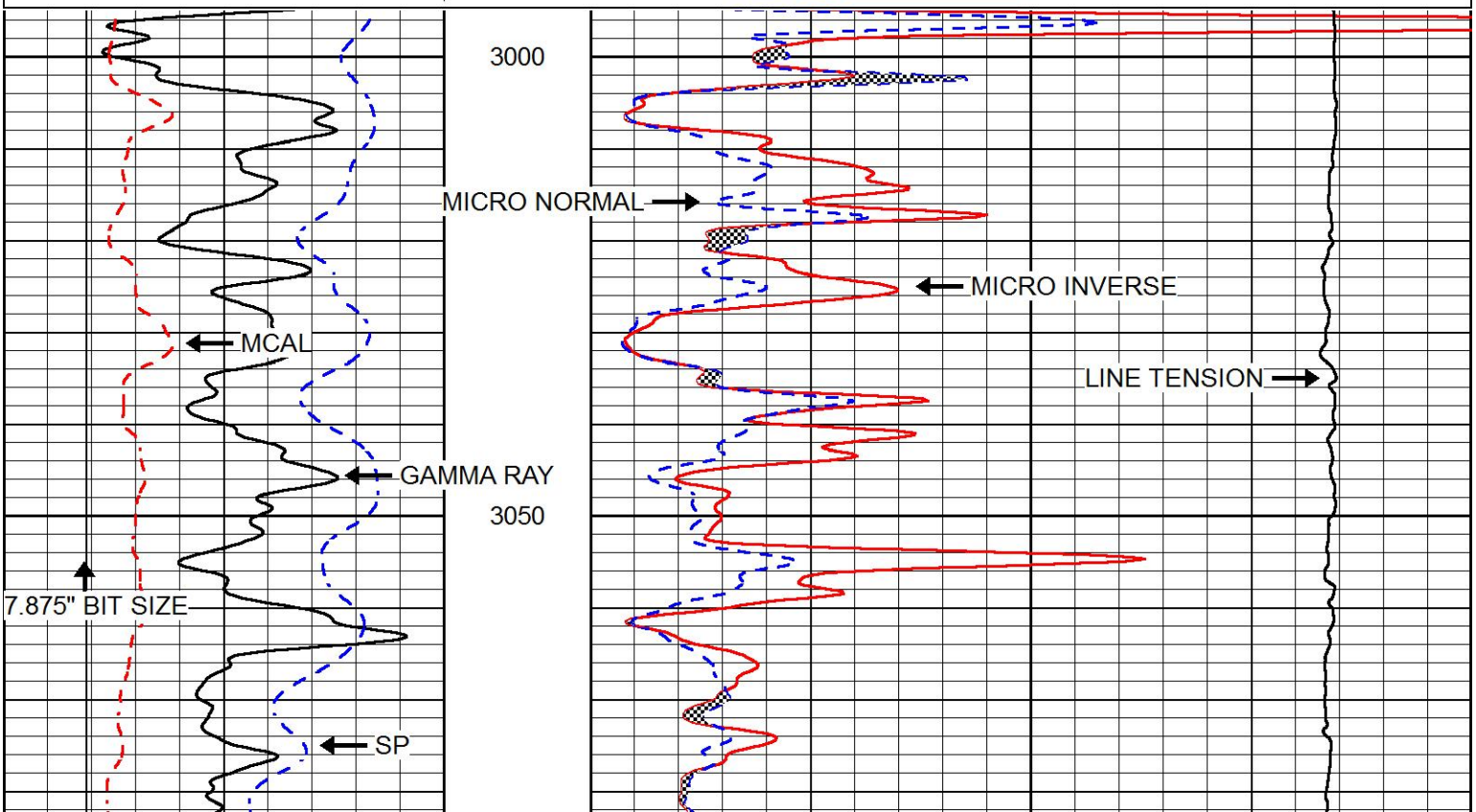
PIONEER
Pioneer Energy Services

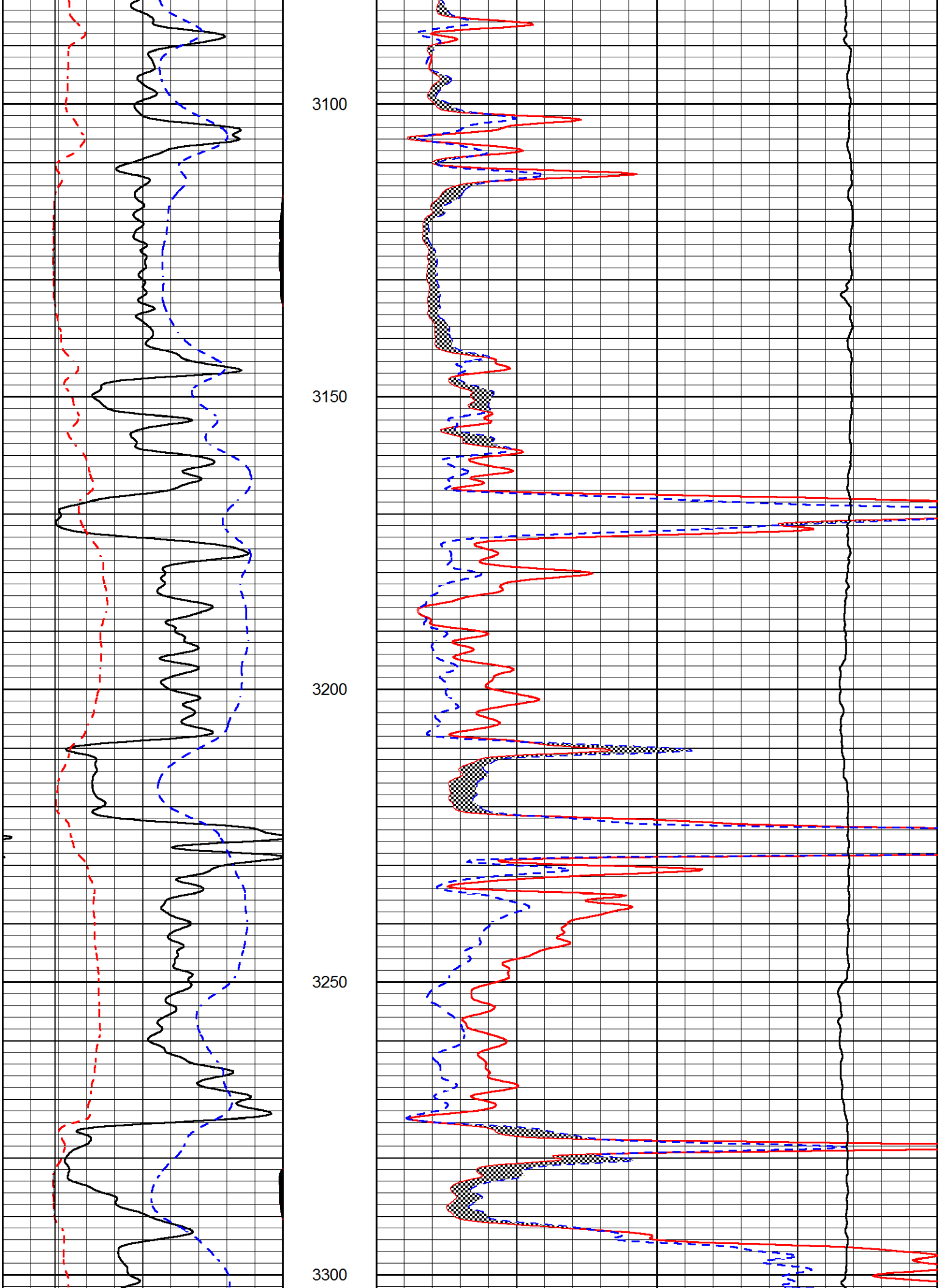
MAIN PASS

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1
Presentation Format	micro
Dataset Creation	Sat Jan 27 07:32:07 2018
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

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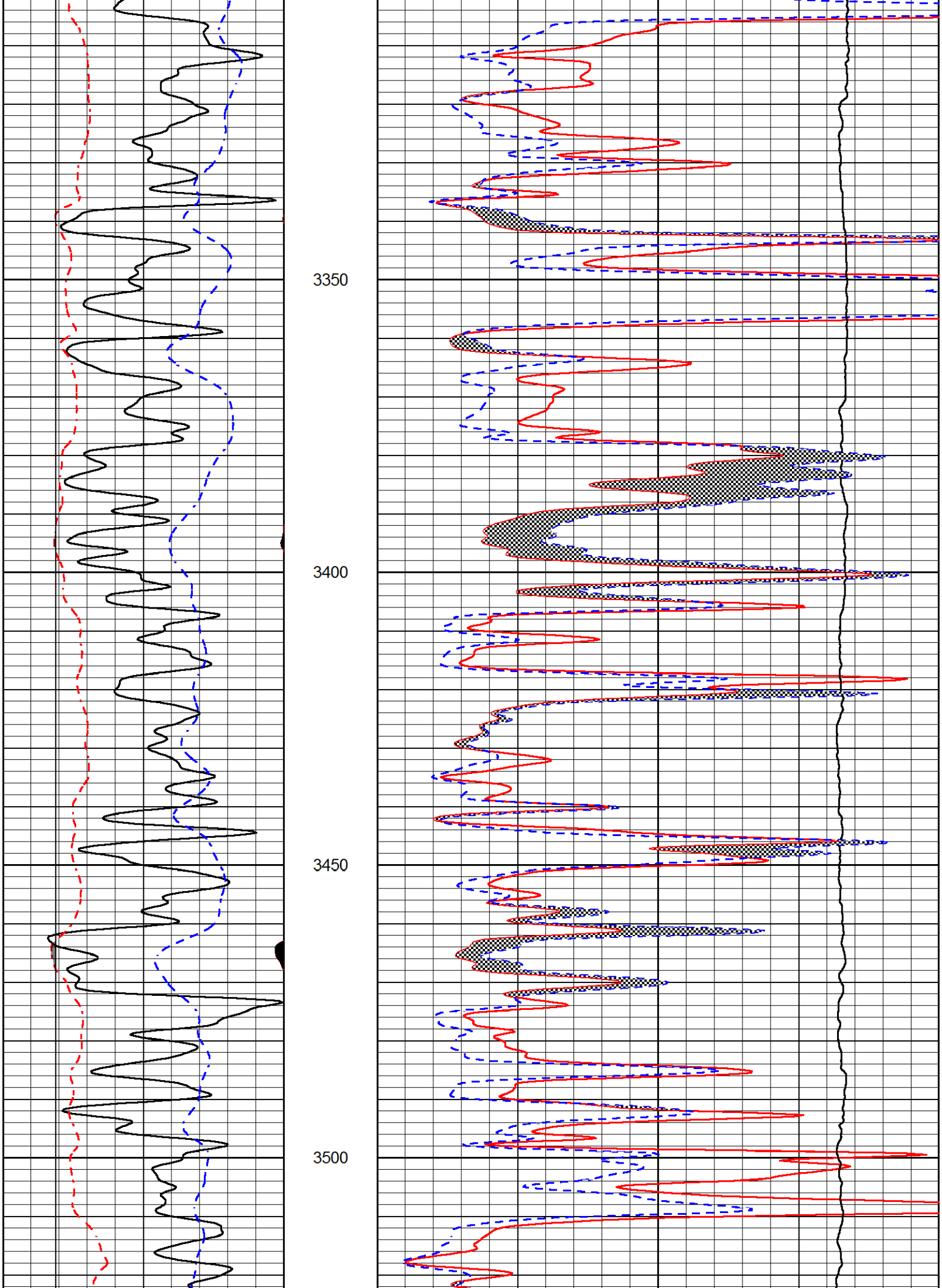
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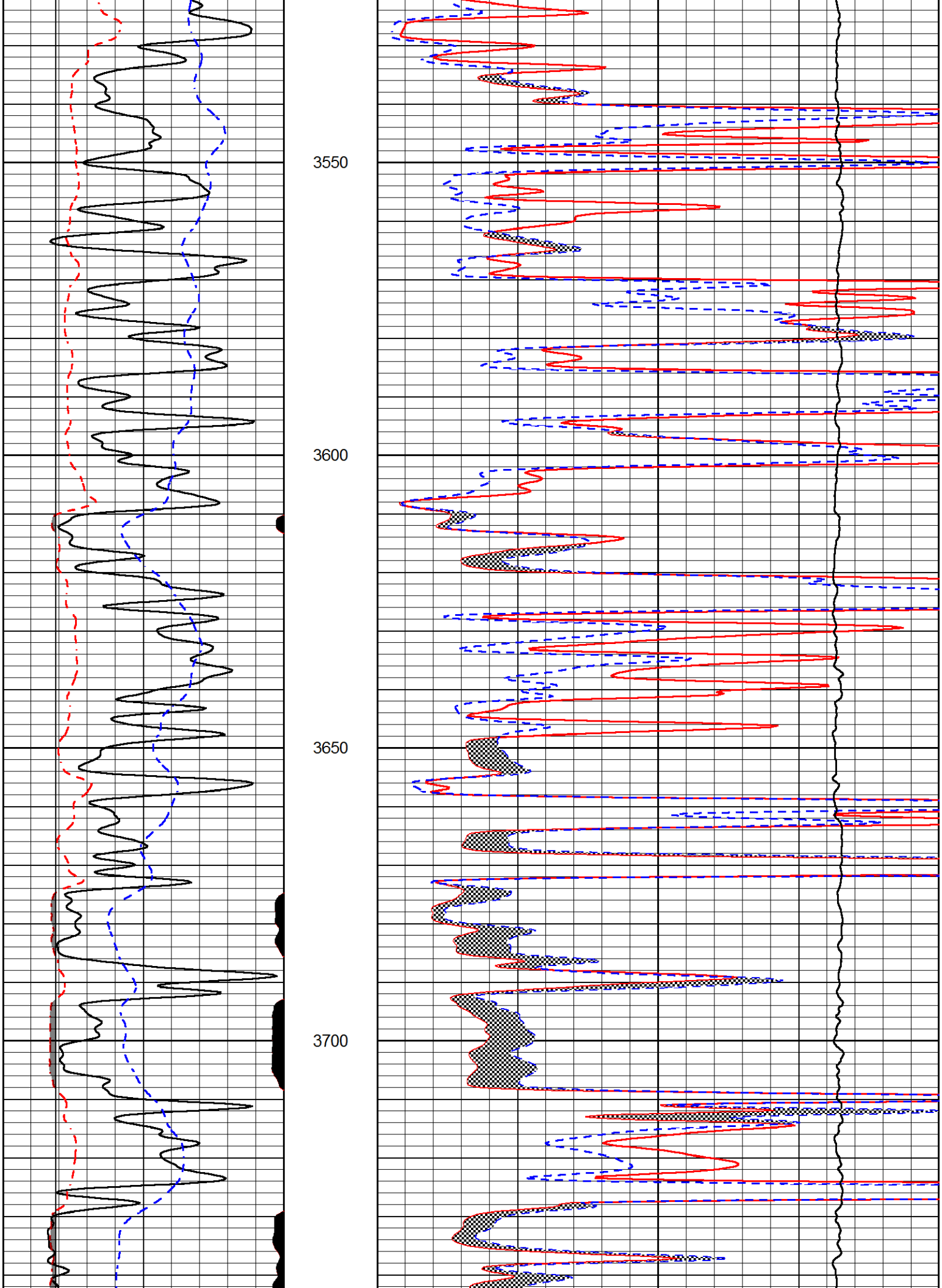
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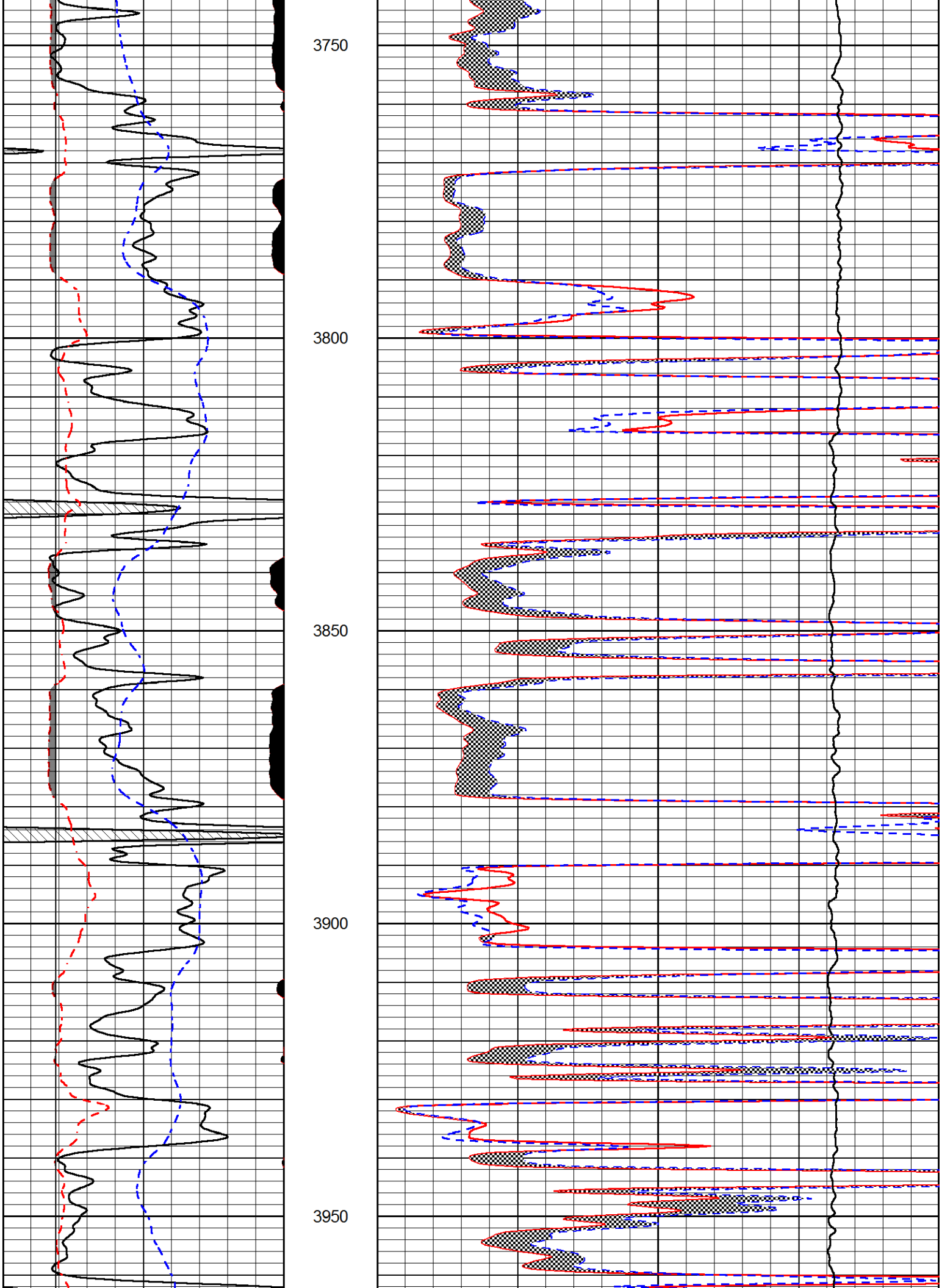
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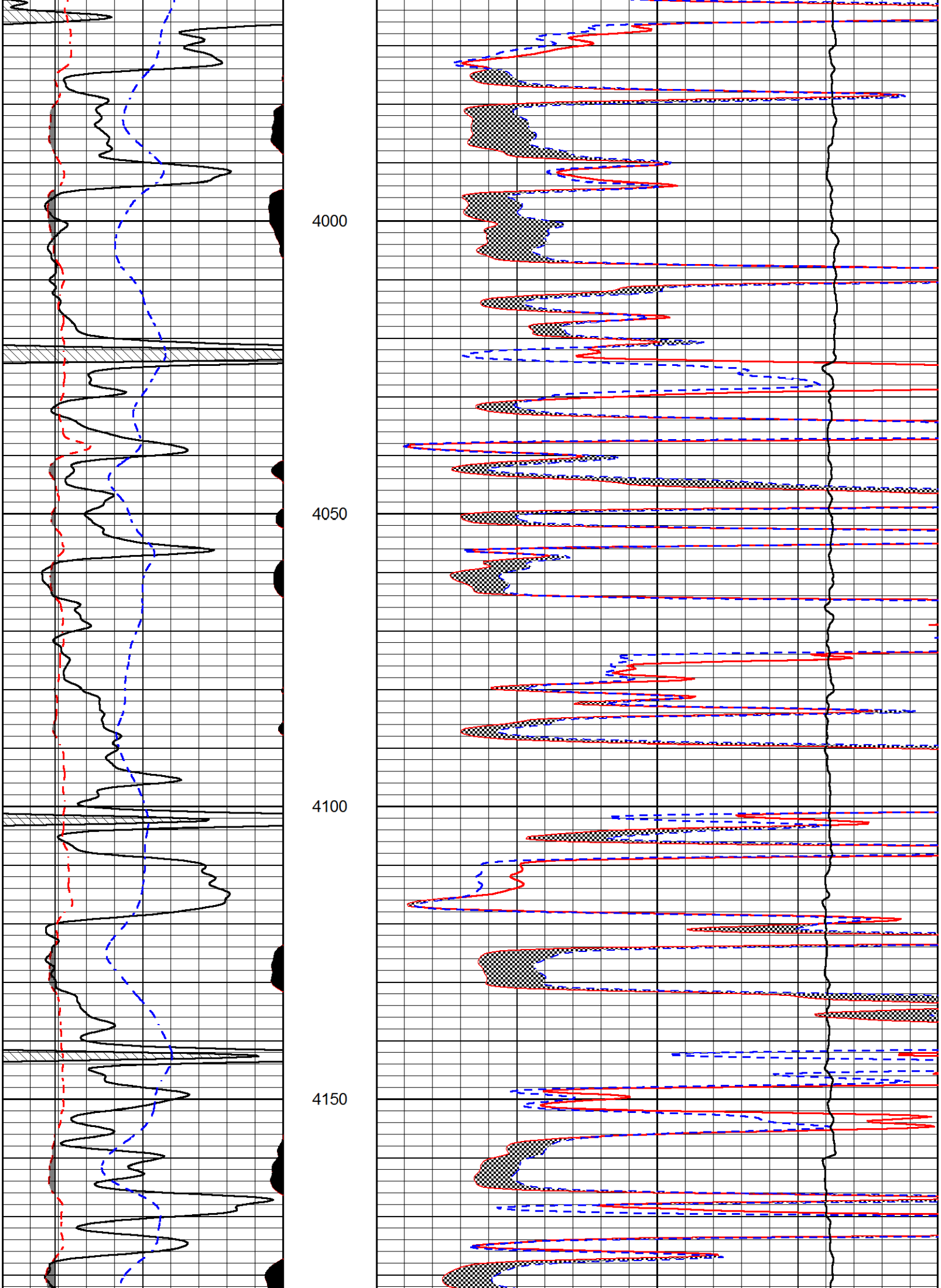
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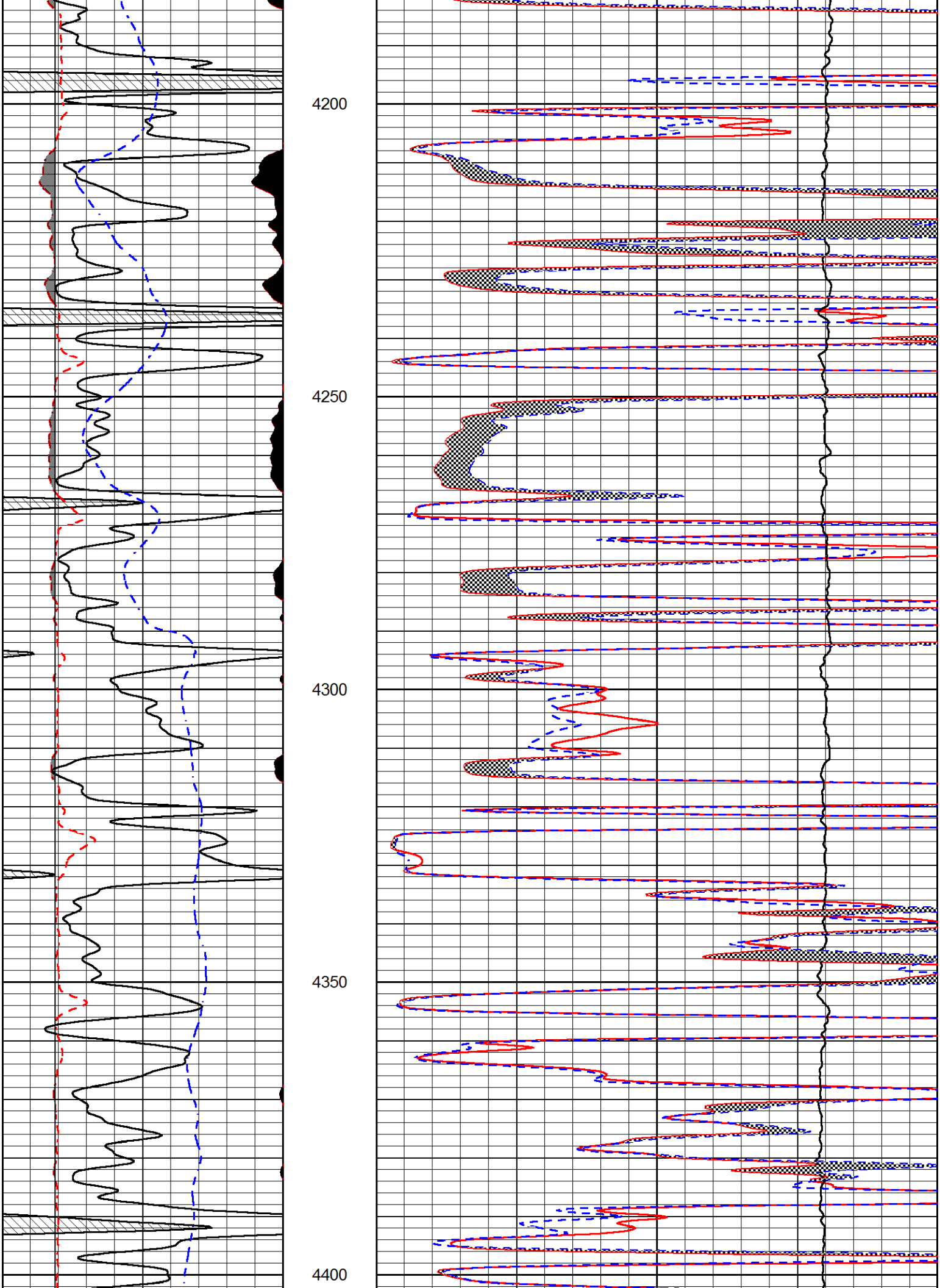
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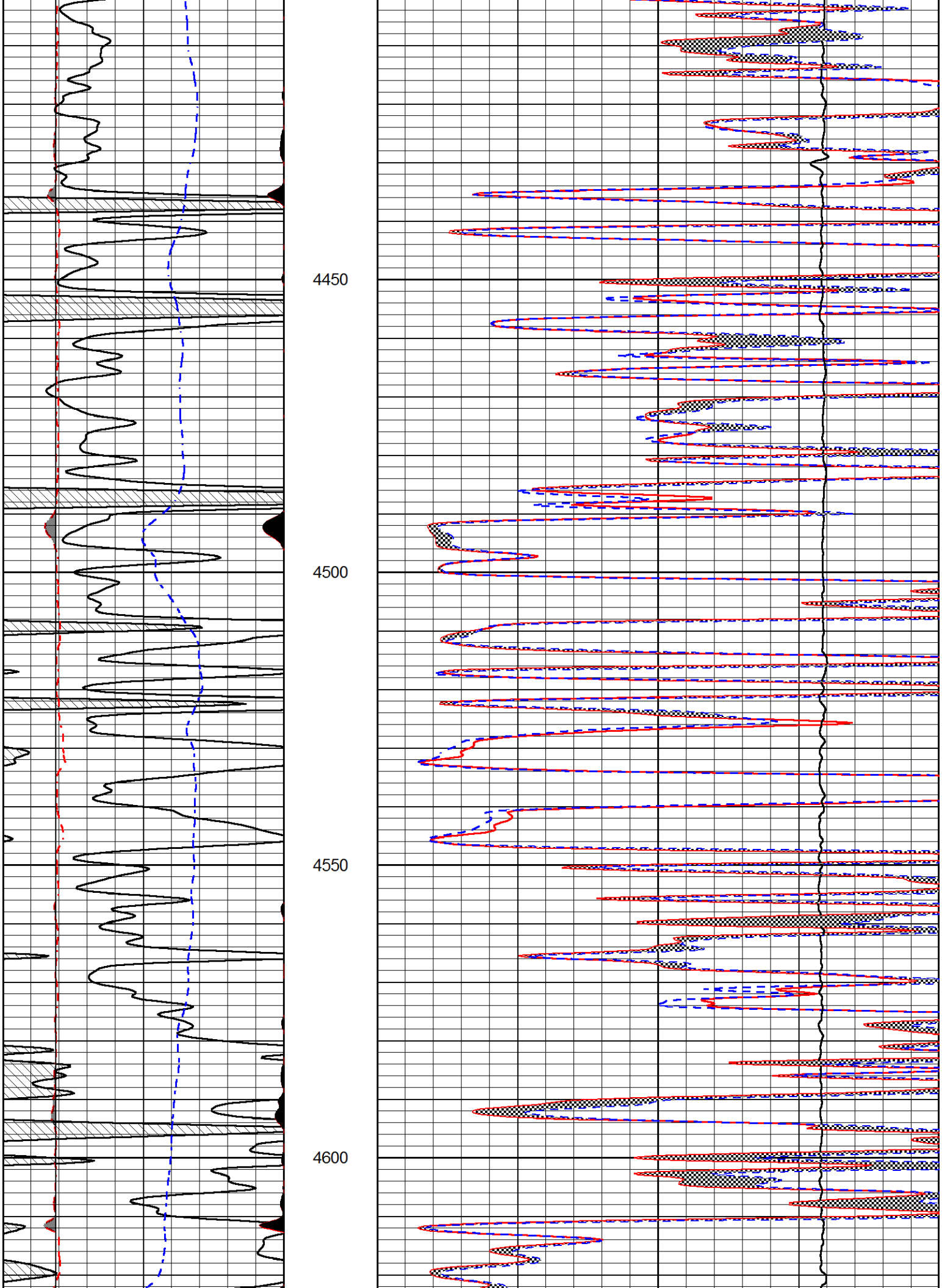
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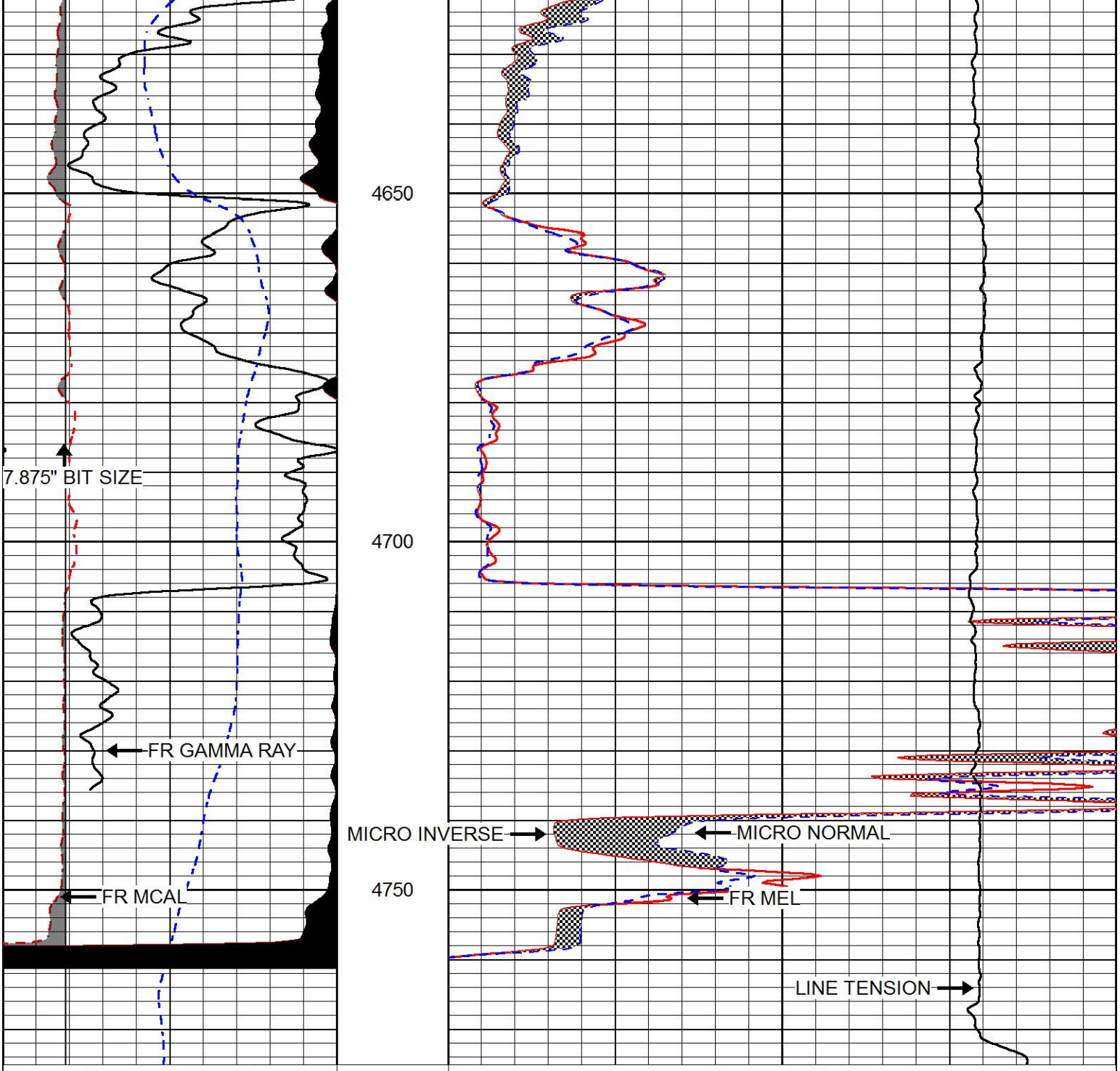


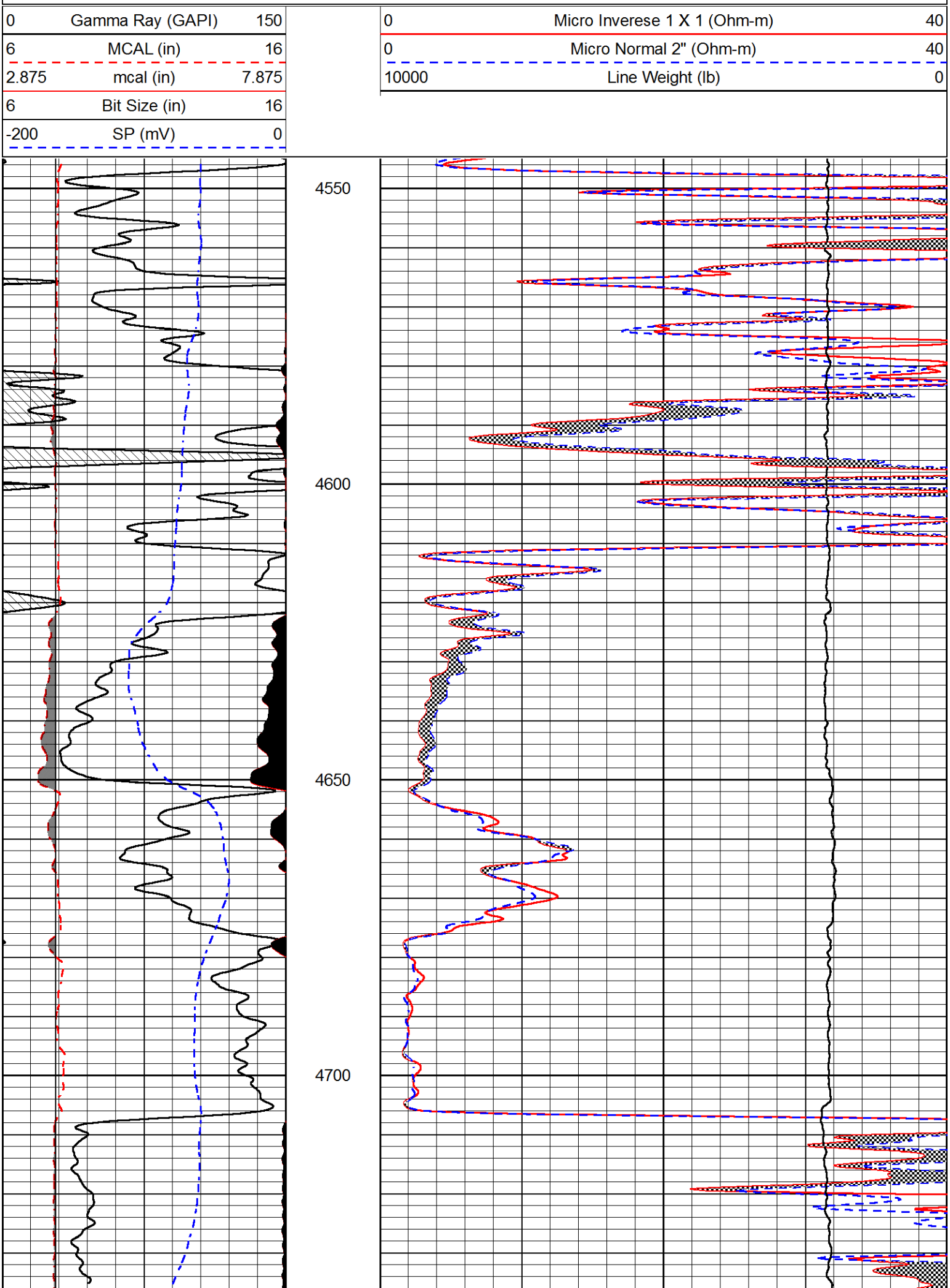
0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

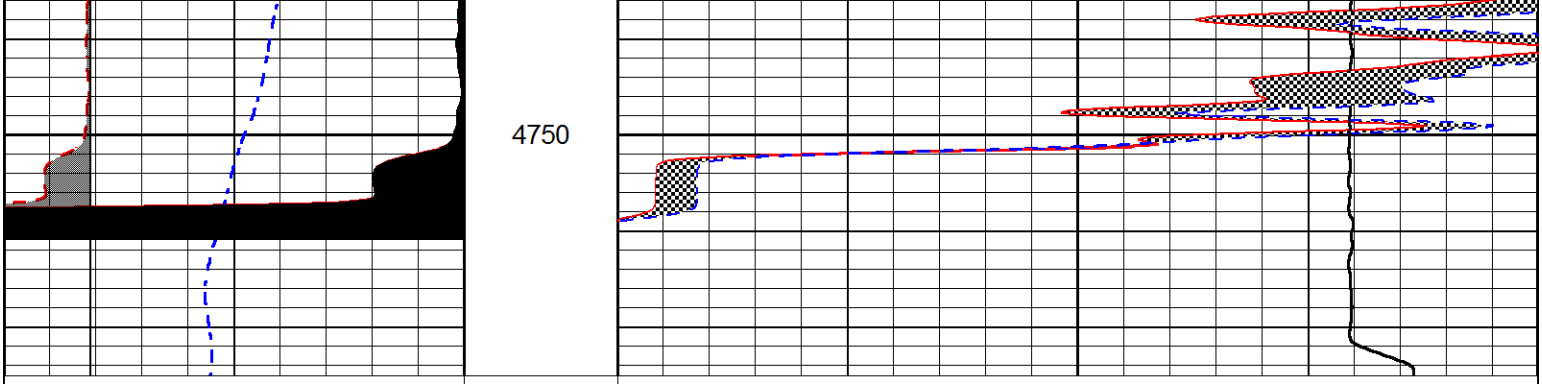
0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

PIONEER
Pioneer Energy Services

REPEAT SECTION

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass2.2
Presentation Format	micro
Dataset Creation	Sat Jan 27 07:06:54 2018
Charted by	Depth in Feet scaled 1:240


0 Gamma Ray (GAPI) 150
6 MCAL (in) 16
2.875 mcal (in) 7.875
6 Bit Size (in) 16
-200 SP (mV) 0
0 Micro Inverese 1 X 1 (Ohm-m) 40
0 Micro Normal 2" (Ohm-m) 40
10000 Line Weight (lb) 0
4550
4600
4650
4700



0	Gamma Ray (GAPI)	150
6	MCAL (in)	16
2.875	mcal (in)	7.875
6	Bit Size (in)	16
-200	SP (mV)	0

0	Micro Inverese 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0

Calibration Report

Database File	americanwarrior_jay#2-35.db
Dataset Pathname	STKML/pass3.1
Dataset Creation	Sat Jan 27 07:32:07 2018

Dual Induction Calibration Report

Serial-Model:	933 (HT)-PSI HIGH TEMP
Calibration Performed:	Sat Jan 27 05:40:18 2018

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.780	-19.500
Medium	142.000	1349.000	0.000	255.000	mmho/m	0.580	-62.000

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Mon Jan 15 11:19:55 2018

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	30000.0000	-1.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	34000.0000	-0.6000
Caliper	1.0001	1.1397	6.5000	18.5000	in	100.0000	-97.3500

Compensated Density Calibration Report

Serial-Model:	227-771-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Tue Jan 23 10:31:02 2018

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4919.18	6345.34	cps

Aluminum	2.665	g/cc	911.94	4081.94	cps

Spine Angle = 75.33 Density/Spine Ratio = 0.522

	Size		Reading
Small Ring	8.00	in	1.84
Large Ring	22.00	in	1.46

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: MON JAN 15 10:30:30 2018

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
Tool Model: M&W
Calibration Performed: Mon Jan 15 11:20:44 2018

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6000 GAPI/cps

PIONEER
Pioneer Energy Services

Company AMERICAN WARRIOR, INC.
Well JAY #2-35
Field WILDCAT
County LOGAN
State KANSAS

9907
9801

TICKET NUMBER 54999
LOCATION Oakley Ks
FOREMAN Jerry Y

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

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice #812265

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
1-20-18	1087	Jay #2-35	35	13S	36W	Logan

CUSTOMER: American Warrior
MAILING ADDRESS: P.O. Box 399
CITY: Garden City | STATE: KS | ZIP CODE: 67846

Russell Spgs 7¼W S auto pasture W to face 2½S across pasture

TRUCK #	DRIVER	TRUCK #	DRIVER
731	Kerth C		
566	Neil W		
955	Seth O		

JOB TYPE Surface | HOLE SIZE 12¼ | HOLE DEPTH 221 | CASING SIZE & WEIGHT 8⅝ 23#
CASING DEPTH 221 | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT 14.8 | SLURRY VOL 1.29 | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT 12½ | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safty meeting rig up on Discovery I circulate casing mix 175 com 3%C 2%gel wash up disp with 0 12½ bbl shut in circulated approx 4 bbl to pit

Cement did Circulate

Thankyou
Jerry crew

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	35	MILEAGE	7.15	250.25
CE0711	8.23	ton mileage delivery min	660.00	660.00
CC5871	175sks	surface blend II	24.00	4200.00
CC5326	100#	salt	LC	LC
			Subtotal	6260.25
			-30%	1878.08
			Subtotal	4382.17
			SALES TAX	235.20
			ESTIMATED TOTAL	4617.38

153864

Ravin 3737

AUTHORIZTION [signature] TITLE 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.

Tavo

2017 Season - Week 11 Pick Sheet

Name:

Due by Thursday Nov 16 at noon

Games		Away	Home		Picks	Points
1		Titans	Steelers		Steelers	14
2		Buccaneers	Dolphins		Dolphins	7
3		Ravens	Packers		Packers	13
4		Cardinals	Texans		Texans	6
5		Rams	Vikings		Vikings	5
6		Chiefs	Giants		Chiefs	12
7		Bills	Chargers		Chargers	4
8		Bengals	Broncos		Bengals	1
9		Eagles	Cowboys		Eagles	9
10		Falcons	Seahawks		Seahawks	11
11	#3	Oklahoma	Kansas		Oklahoma	18
12	#11	TCU	Texas Tech		TCU	19
13		Kansas St	Oklahoma St	#10	Oklahoma St.	20
14		Iowa St	Baylor		Iowa St	17
15		Texas	West Virginia	#24	W. Virginia	16
16	#19	Michigan	Wisconsin	#5	Wisconsin	15
17	#25	NC State	Wake Forest		NC State	2
18		Texas A&M	Mississippi		Texas A&M	3
19		Fresno St	Wyoming		Fresno St.	8
20		Minnesota	Northwestern		Northwestern	10
210						