MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Griffin Management LLC
Well Griffyn #2
Field Moffett West
County Barber State Kansas

Location: API # : 15-007-24448-00-00
SW SE NE SE
1493 FSL & 416 FEL
SEC 8 TWP 30S RGE 15W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 1938
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 1950
D.F.
G.L. 1938

Company Griffin Management LLC
Well Griffyn #2
Field Moffett West
County Barber
State Kansas

Date	12/18/2022		
Run Number	One		
Depth Driller	4810		
Depth Logger	4820		
Bottom Logged Interval	4819		
Top Log Interval	250		
Casing Driller	8.625 @ 263		
Casing Logger	263		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	7700		
Density / Viscosity	9.3 / 55		
pH / Fluid Loss	10.5 / 9.2		
Source of Sample	Flowline		
Rm @ Meas. Temp	0.8 @ 68		
Rmf @ Meas. Temp	0.6 @ 68		
Rmc @ Meas. Temp	1.08 @ 68		
Source of Rmf / Rmc	Charts		
Rm @ BHT	0.44 @ 124		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Eli Felts		

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All interpretations are opinions based on inferences from electrical or other measurements and Midwest Wireline LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Midwest Wireline LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Croft Blktp, S to Y, E to coral,
S-SW to Alexa #2, E to location

Log Measured From: Kelly Bushing 12 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: T. Martin	Primary Witness: Eli Felts
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	40.33		GR-M&W (106)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (207-MW)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (307-08)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSIML (401)	7.58	4.00	65.00
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (502 HT)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset:	griffin_griffyn #2.db: field/well/StkMl/pass3.1
Total length:	42.33 ft
Total weight:	685.00 lb
O.D.:	4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_griffyn #2.db
Dataset field/well/StkMl/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	124	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	15	40	Off	4820

Variable Description

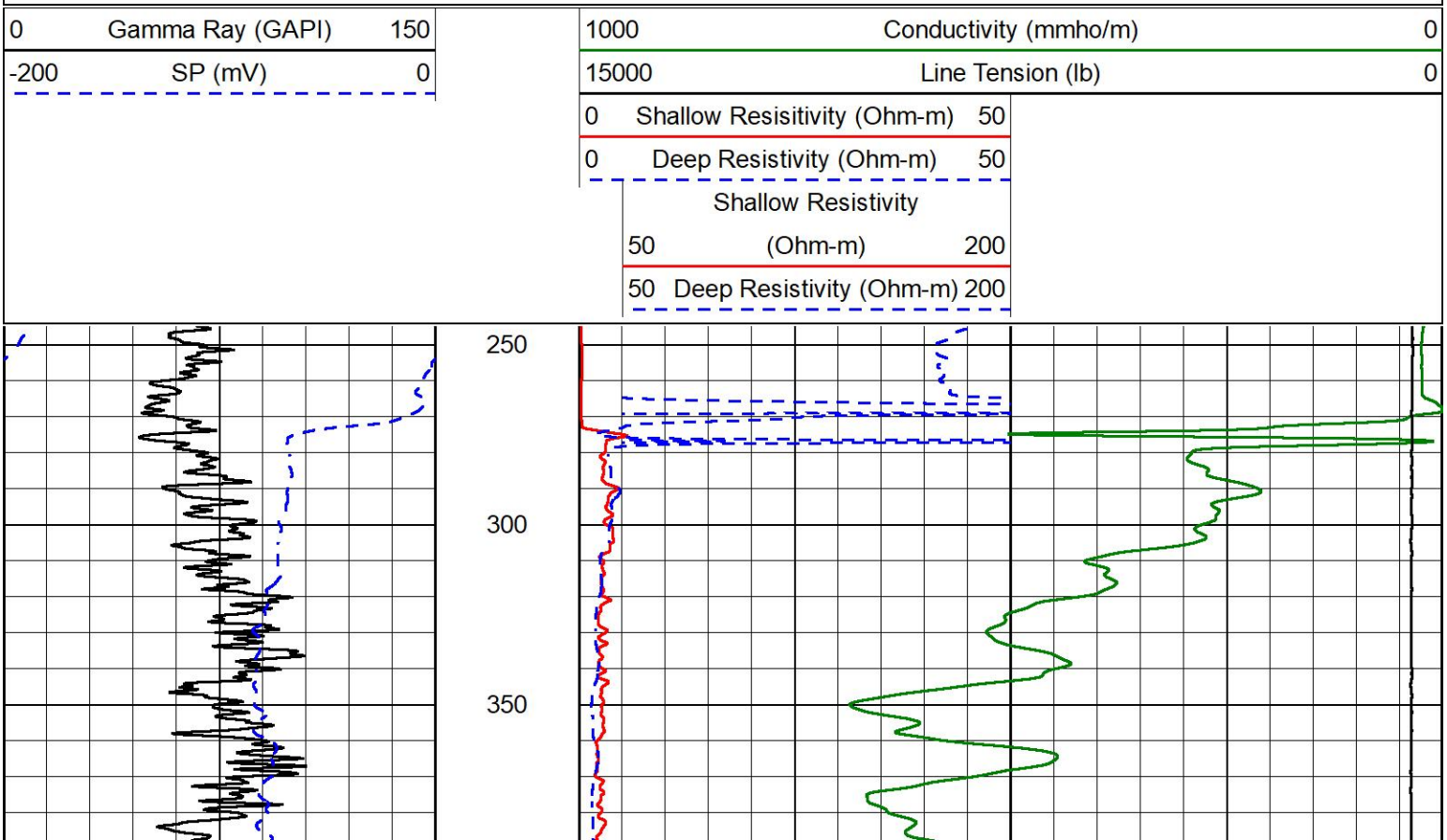
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

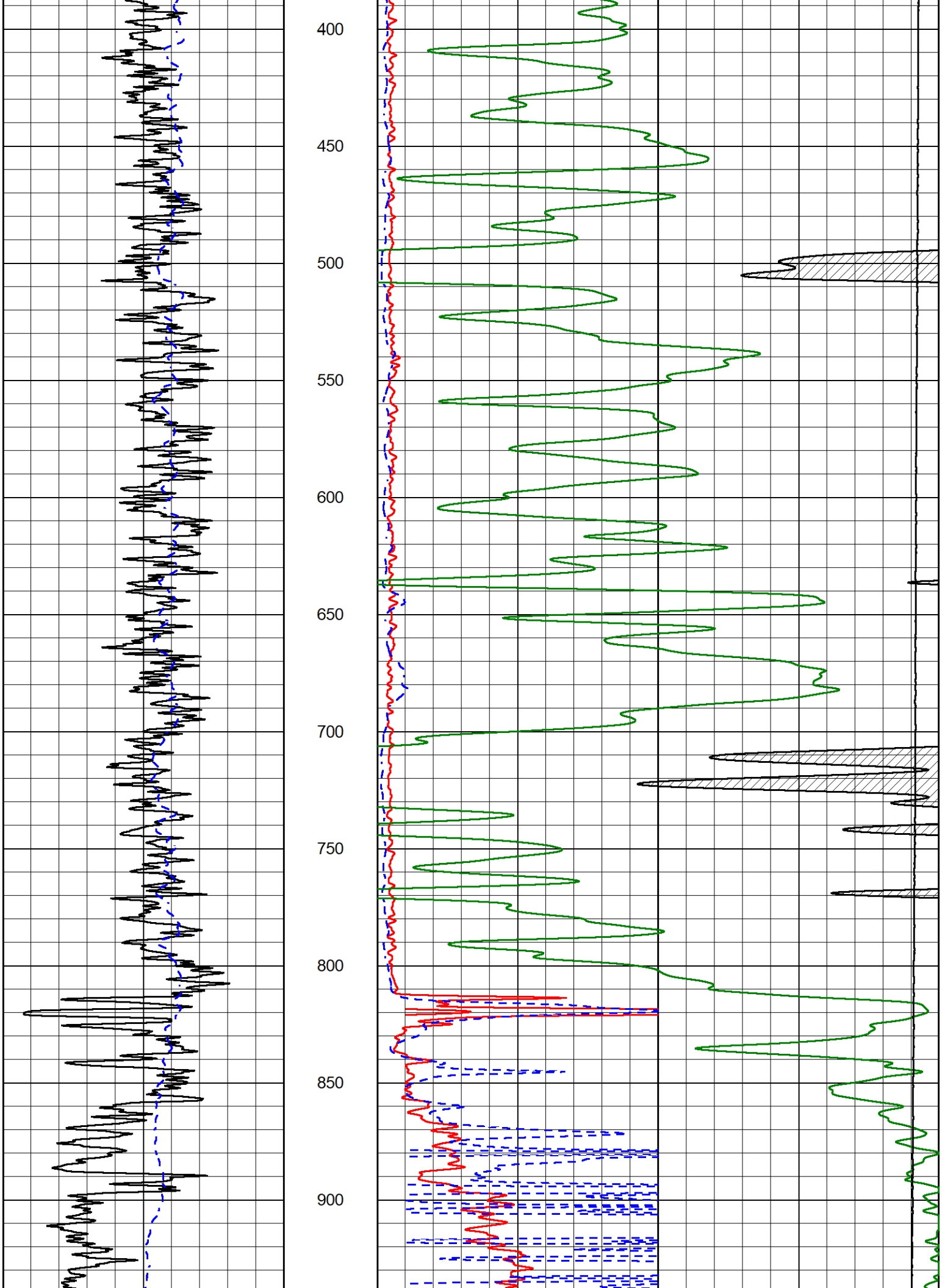
MIDWEST WIRELINE

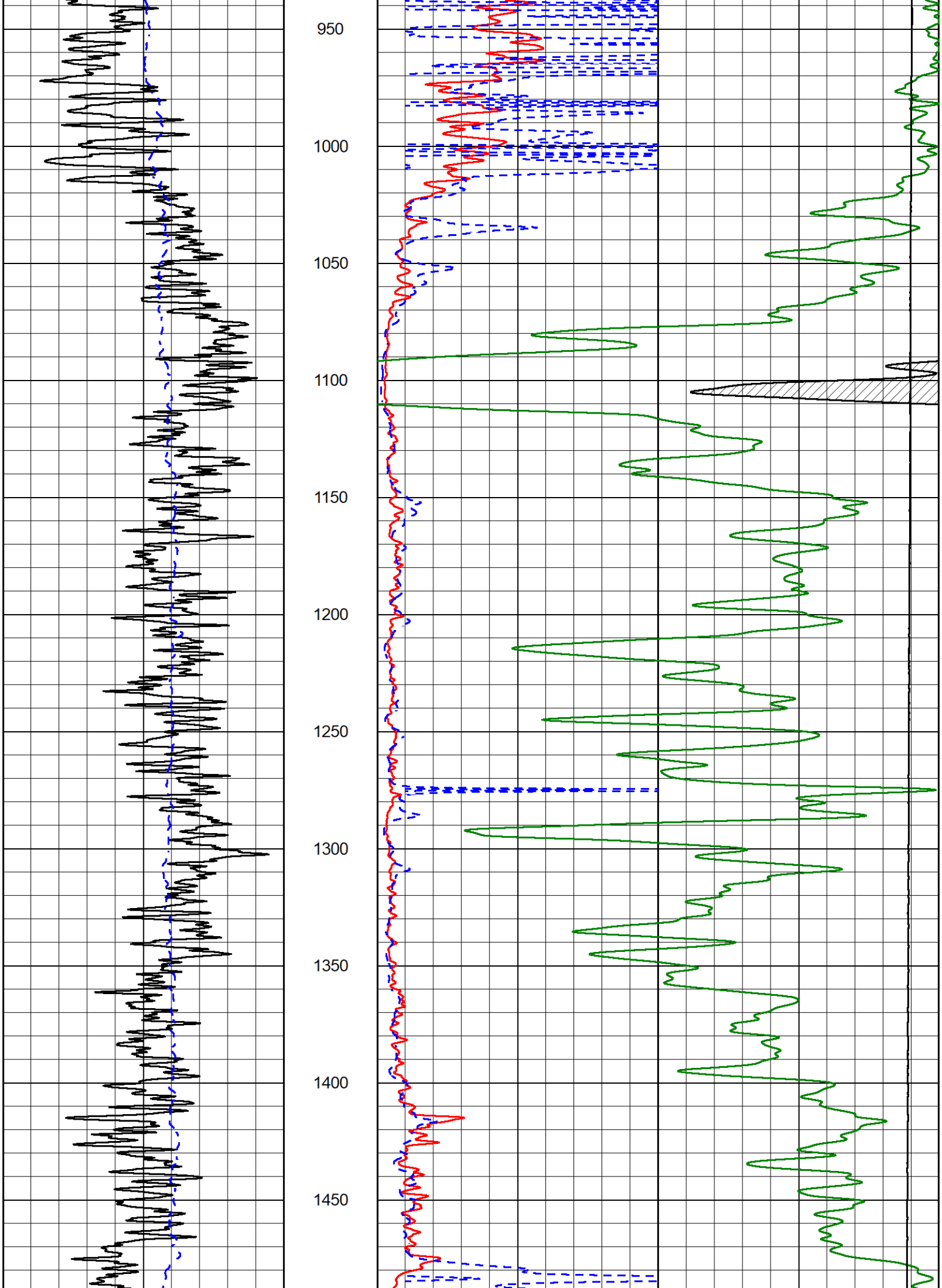
2" SCALE RESISTIVITY

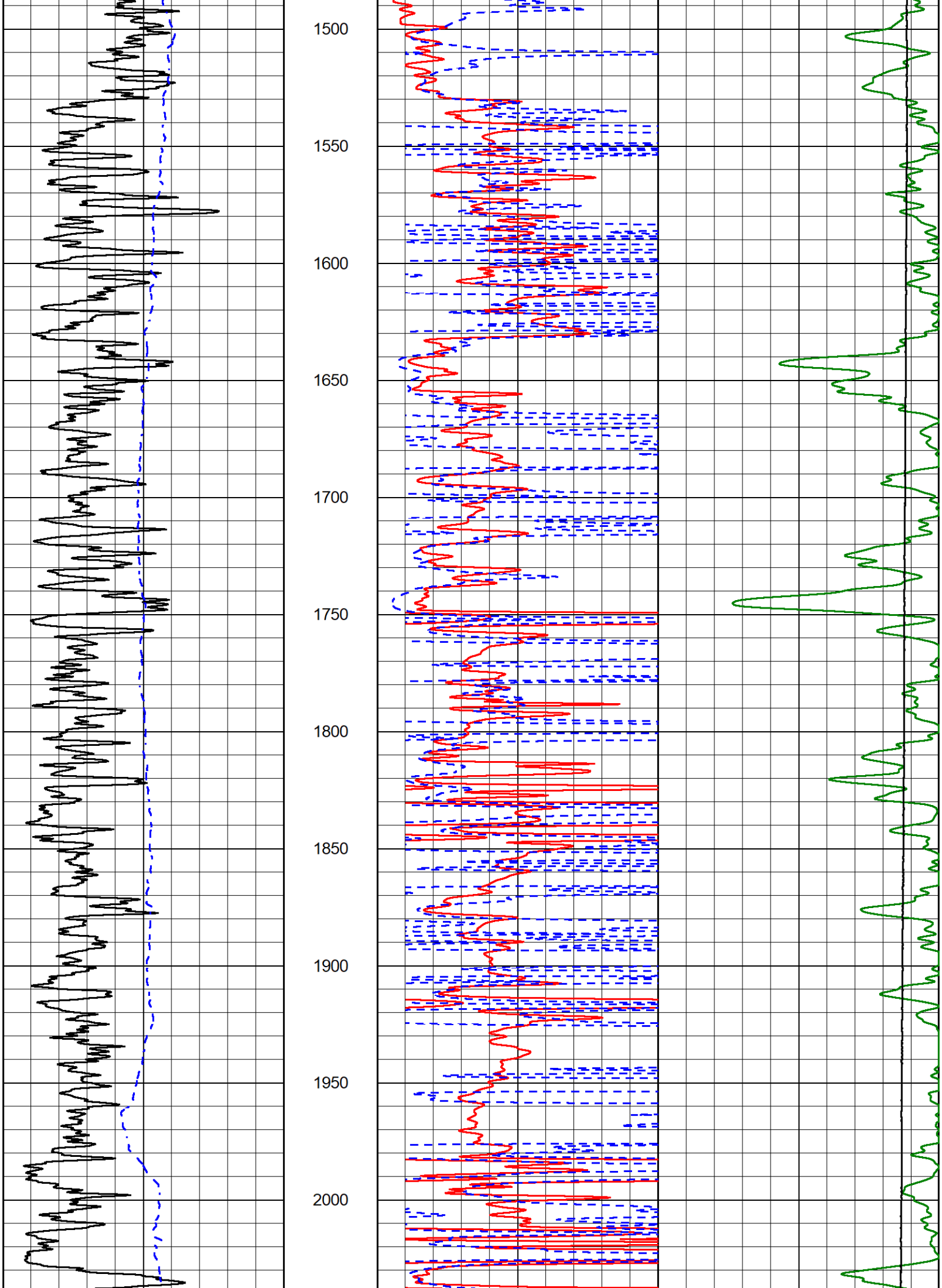
MAIN PASS

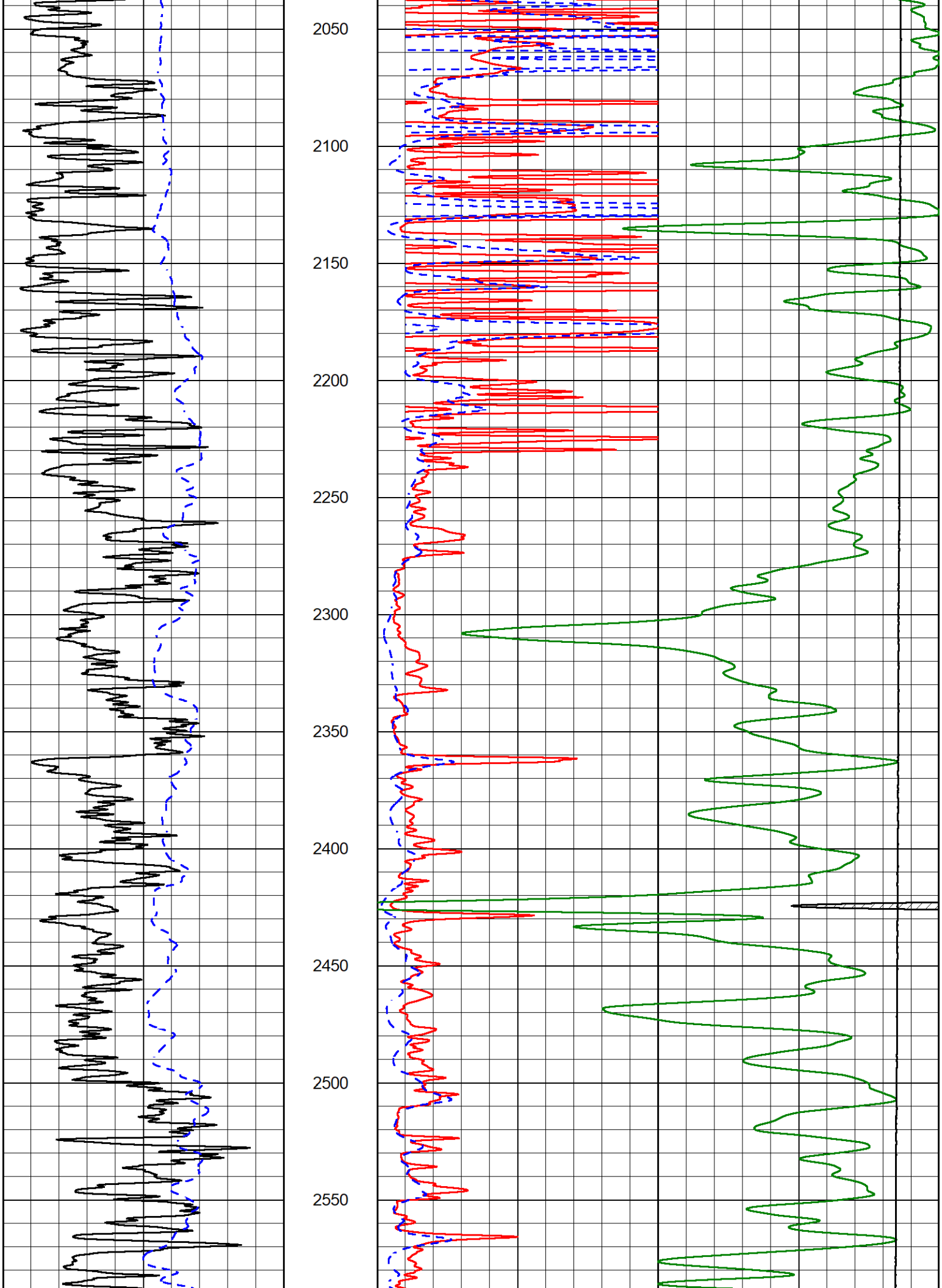
Database File	griffin_griffyn #2.db
Dataset Pathname	StkMl/pass3.2
Presentation Format	_dil2in
Dataset Creation	Sun Dec 18 18:22:16 2022
Charted by	Depth in Feet scaled 1:600

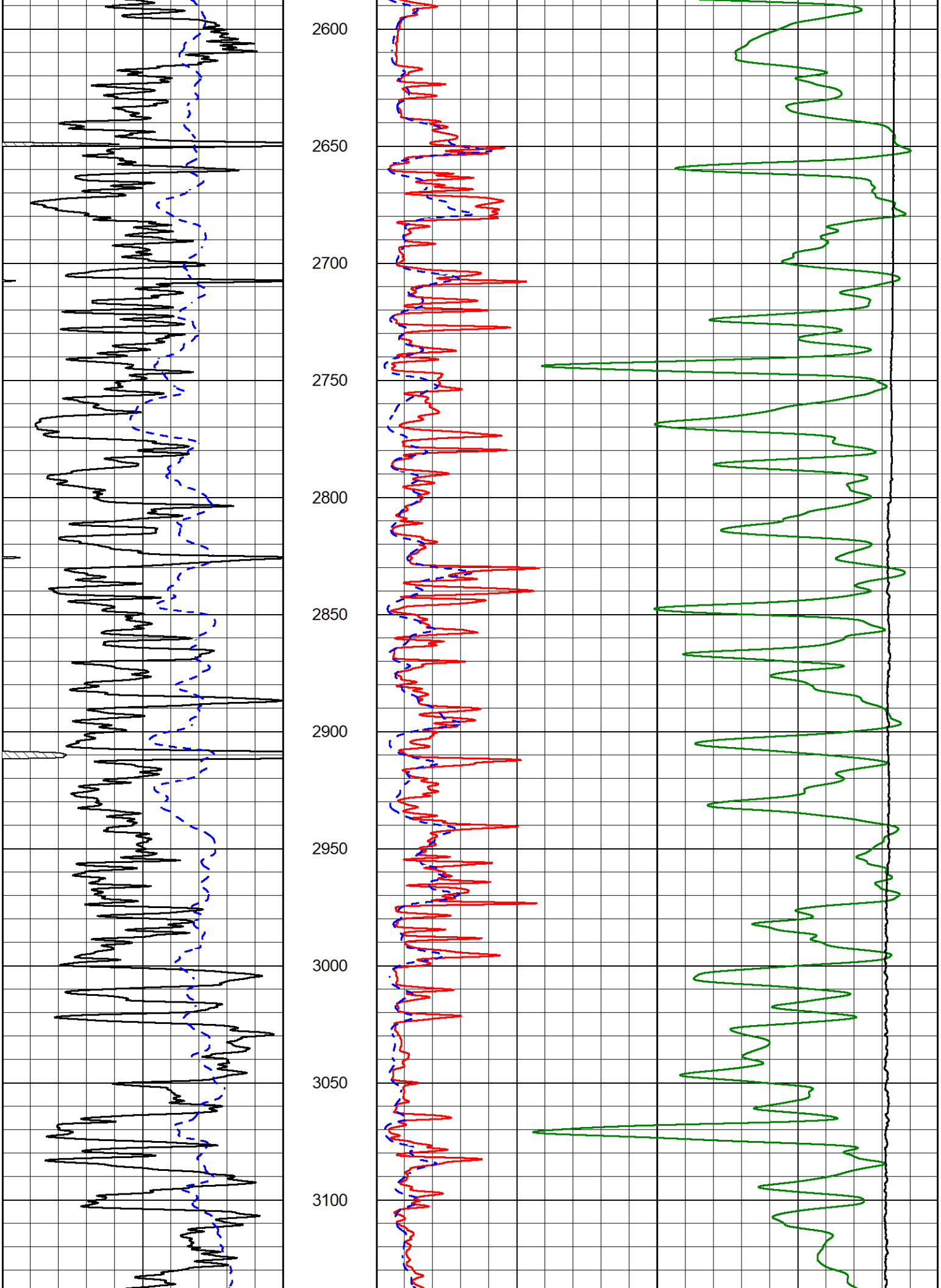


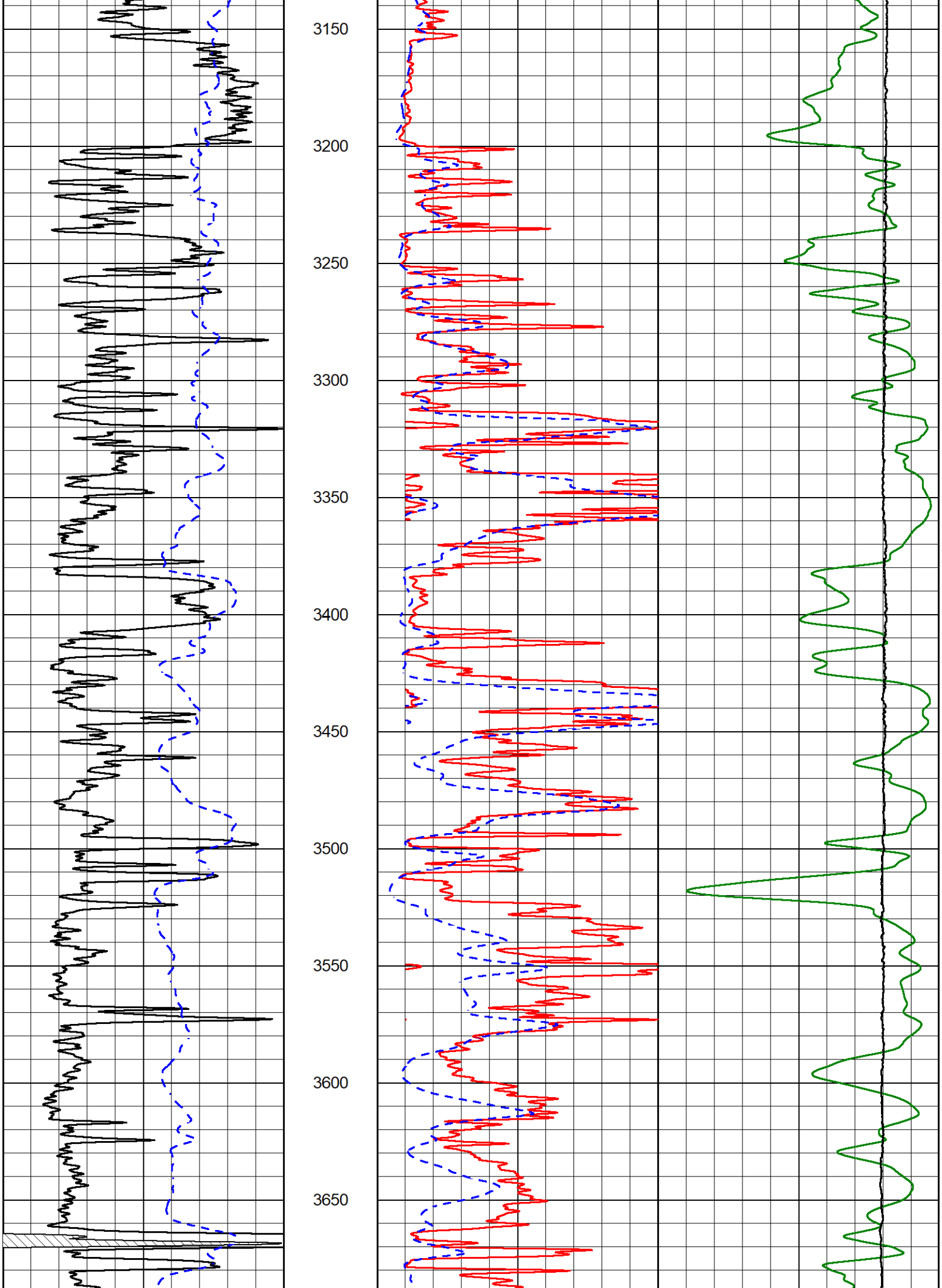

400
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850
900

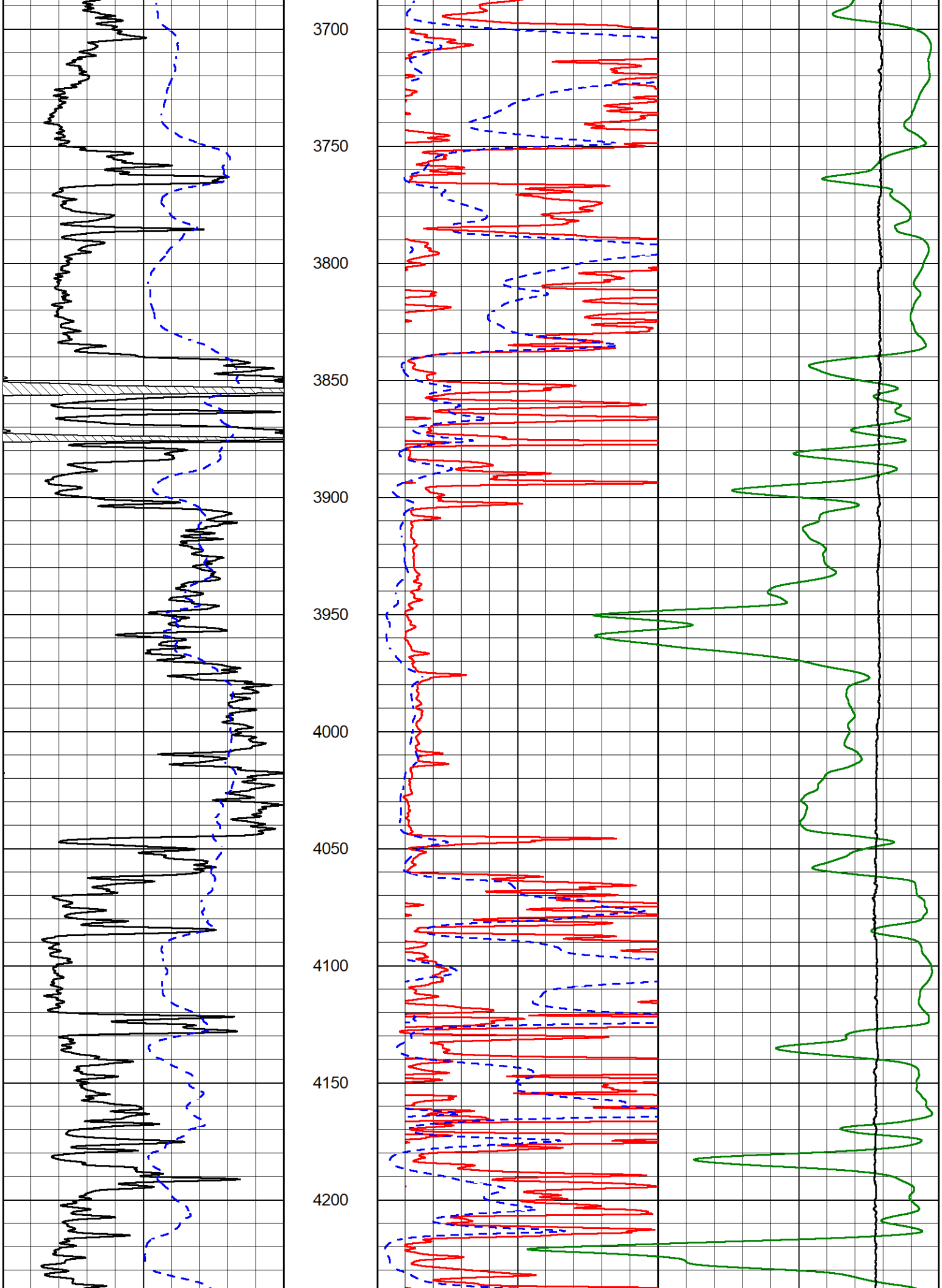

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1100
1150
1200
1250
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1400
1450

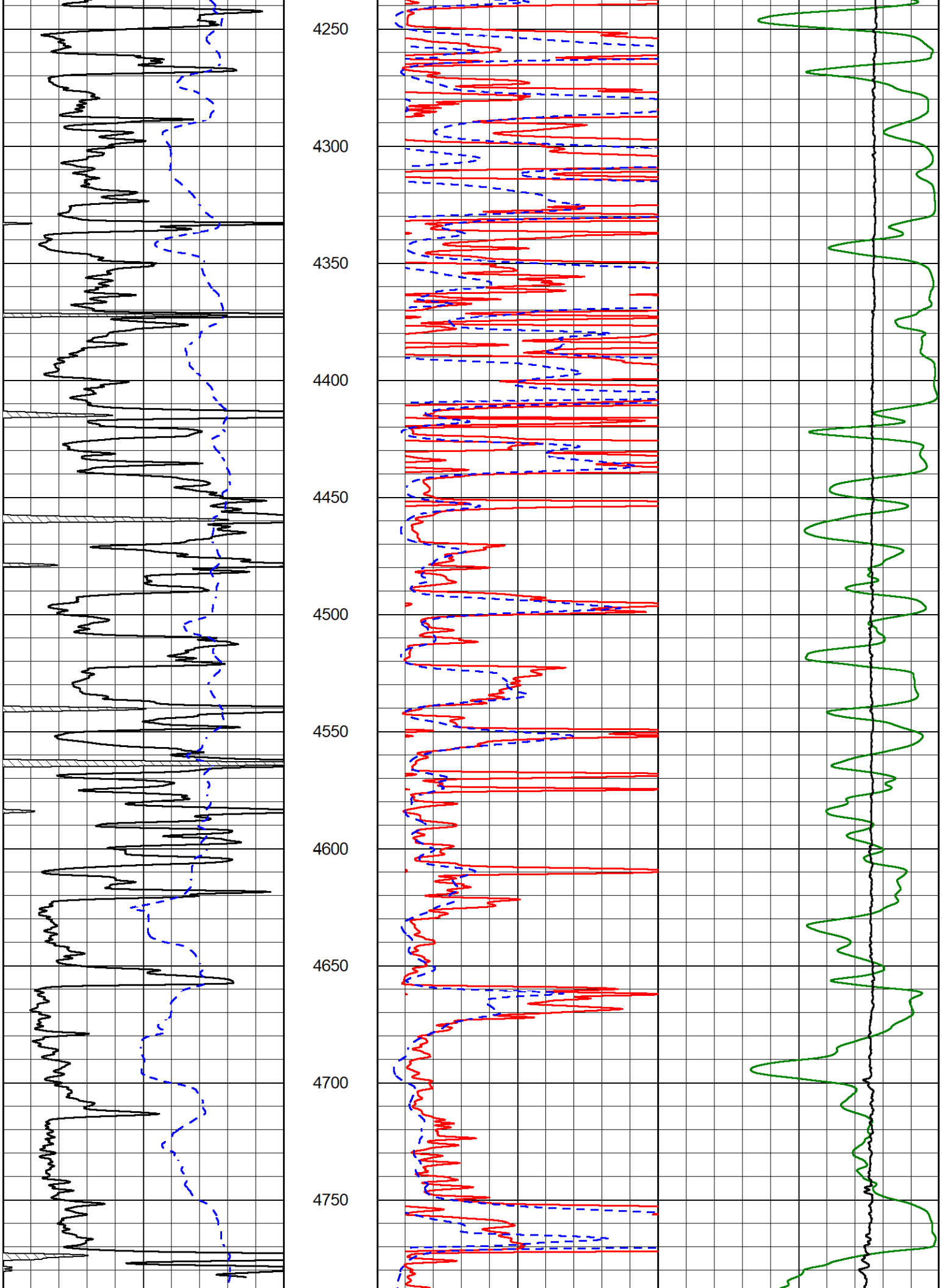

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1550
1600
1650
1700
1750
1800
1850
1900
1950
2000

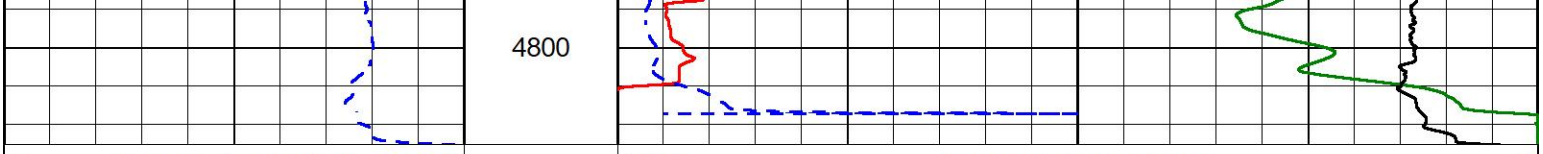

2050
2100
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2200
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2450
2500
2550


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2800
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2900
2950
3000
3050
3100


3150
3200
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4750

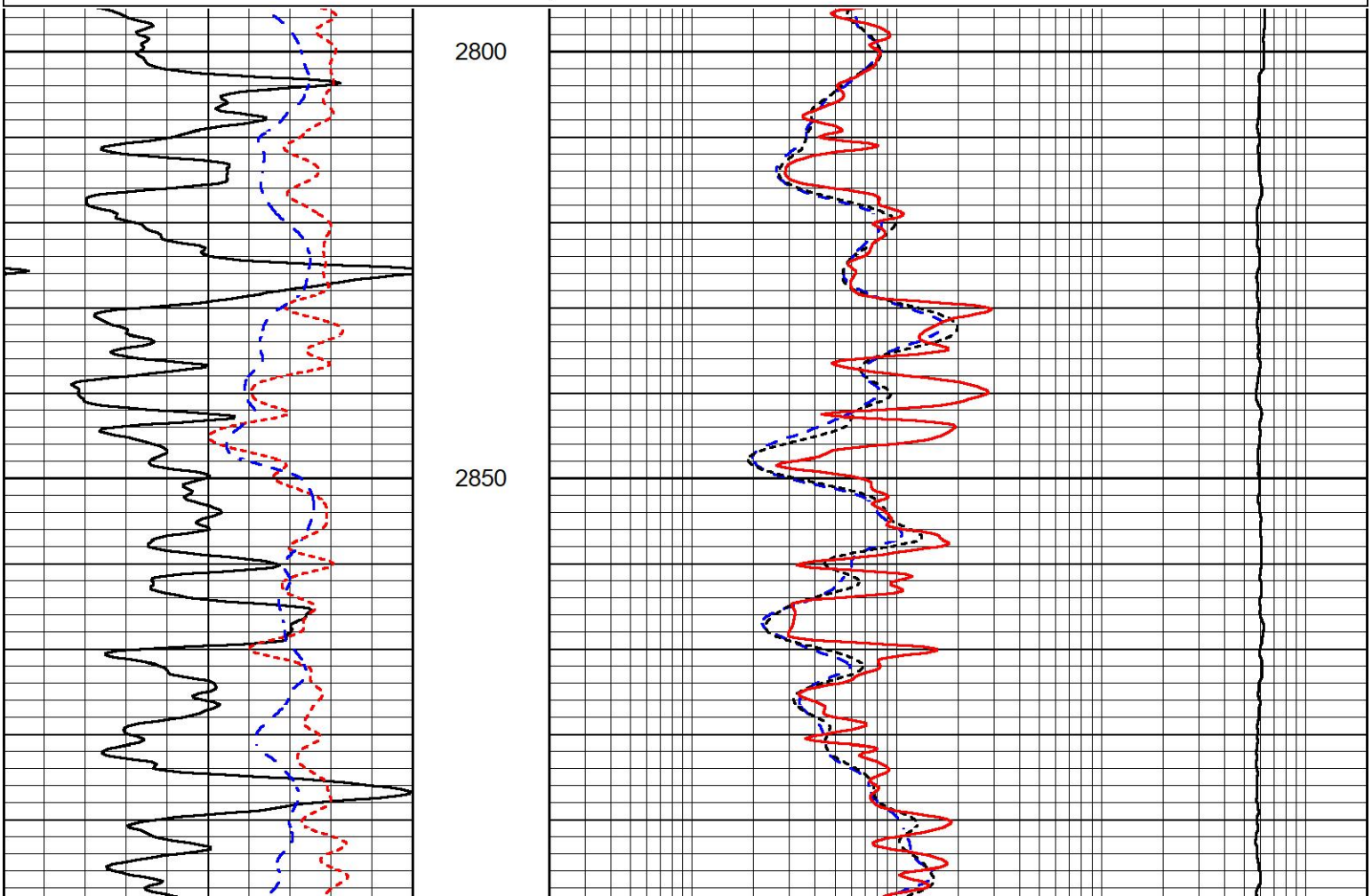


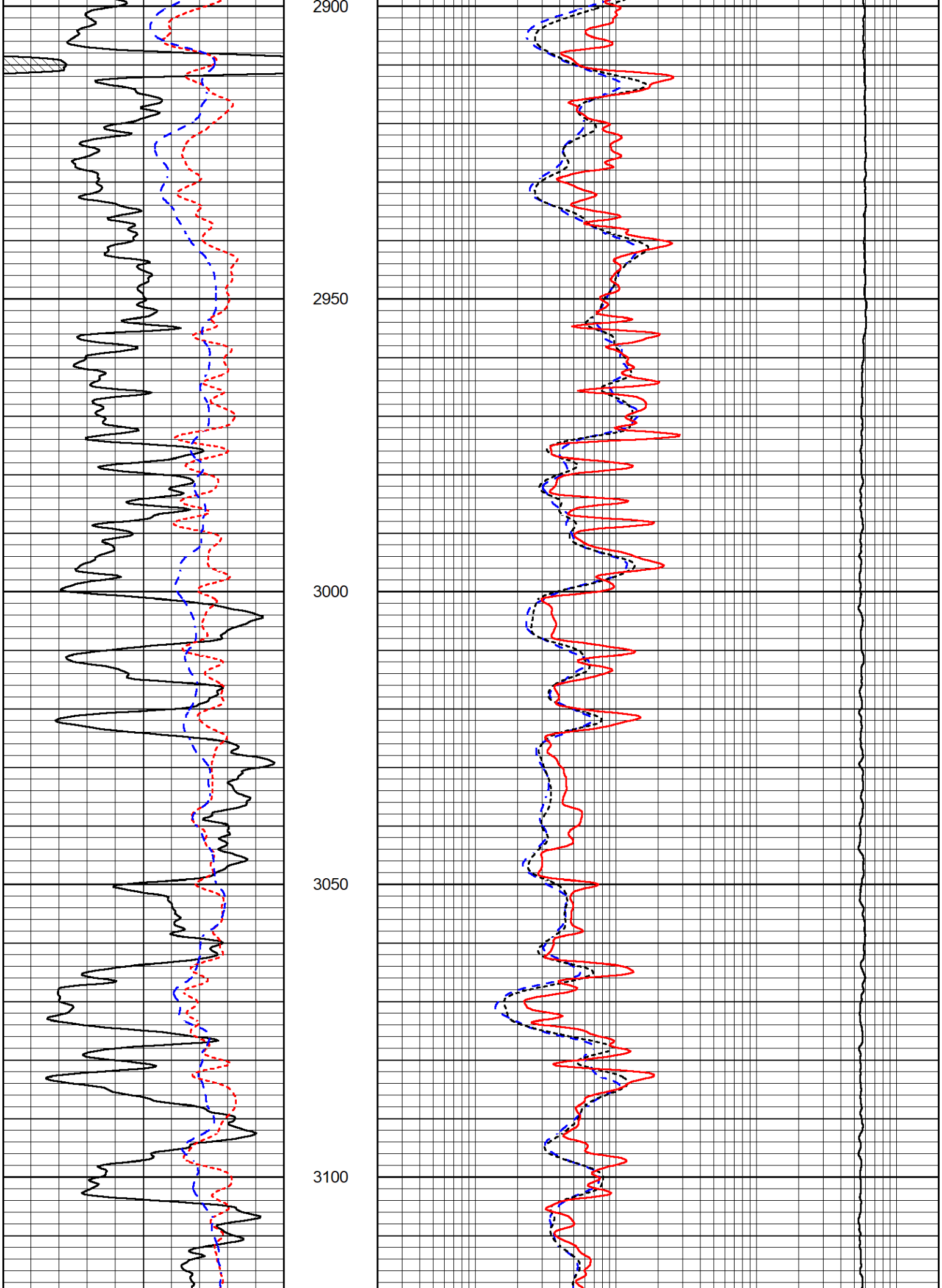
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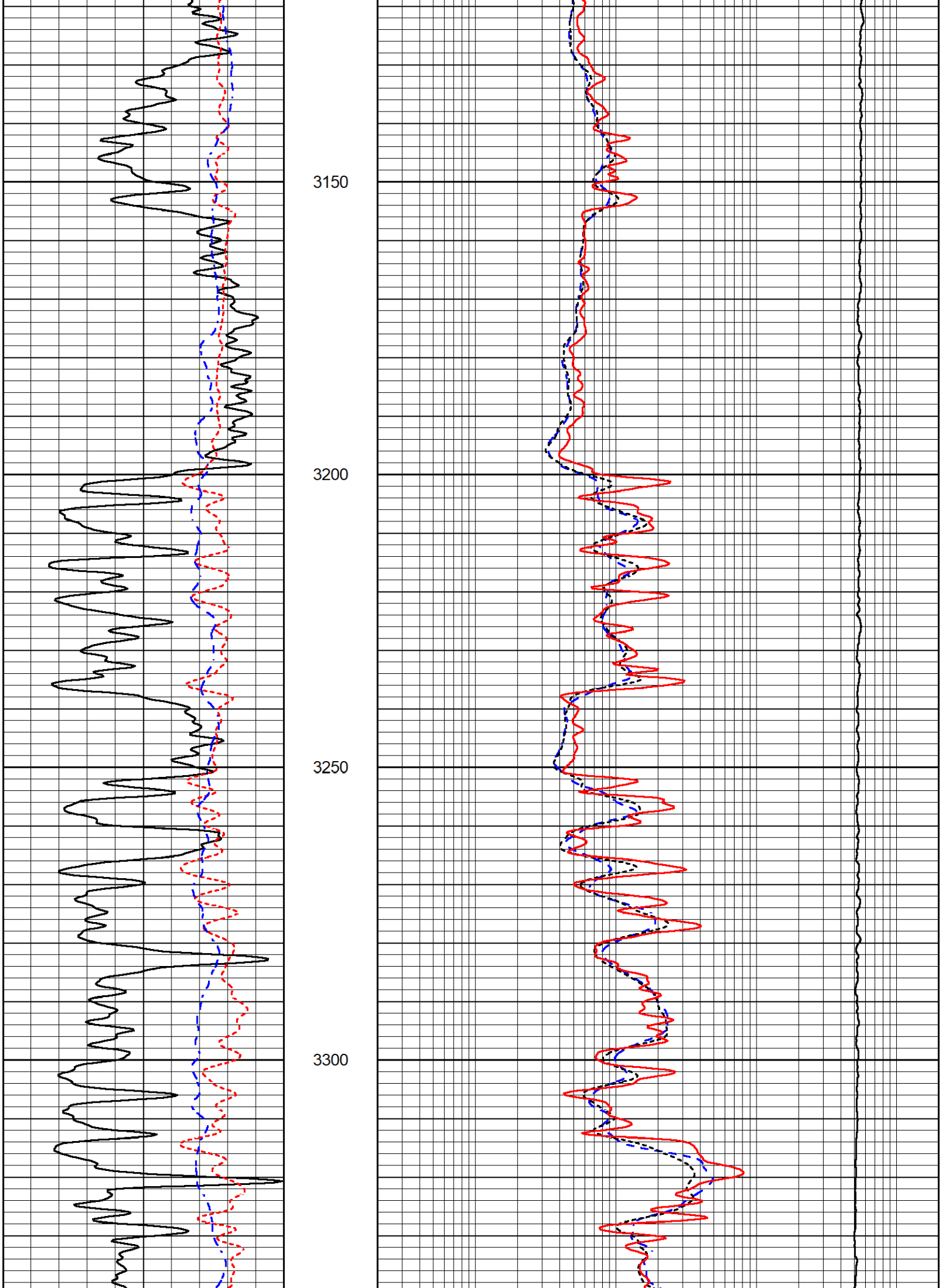
MAIN PASS

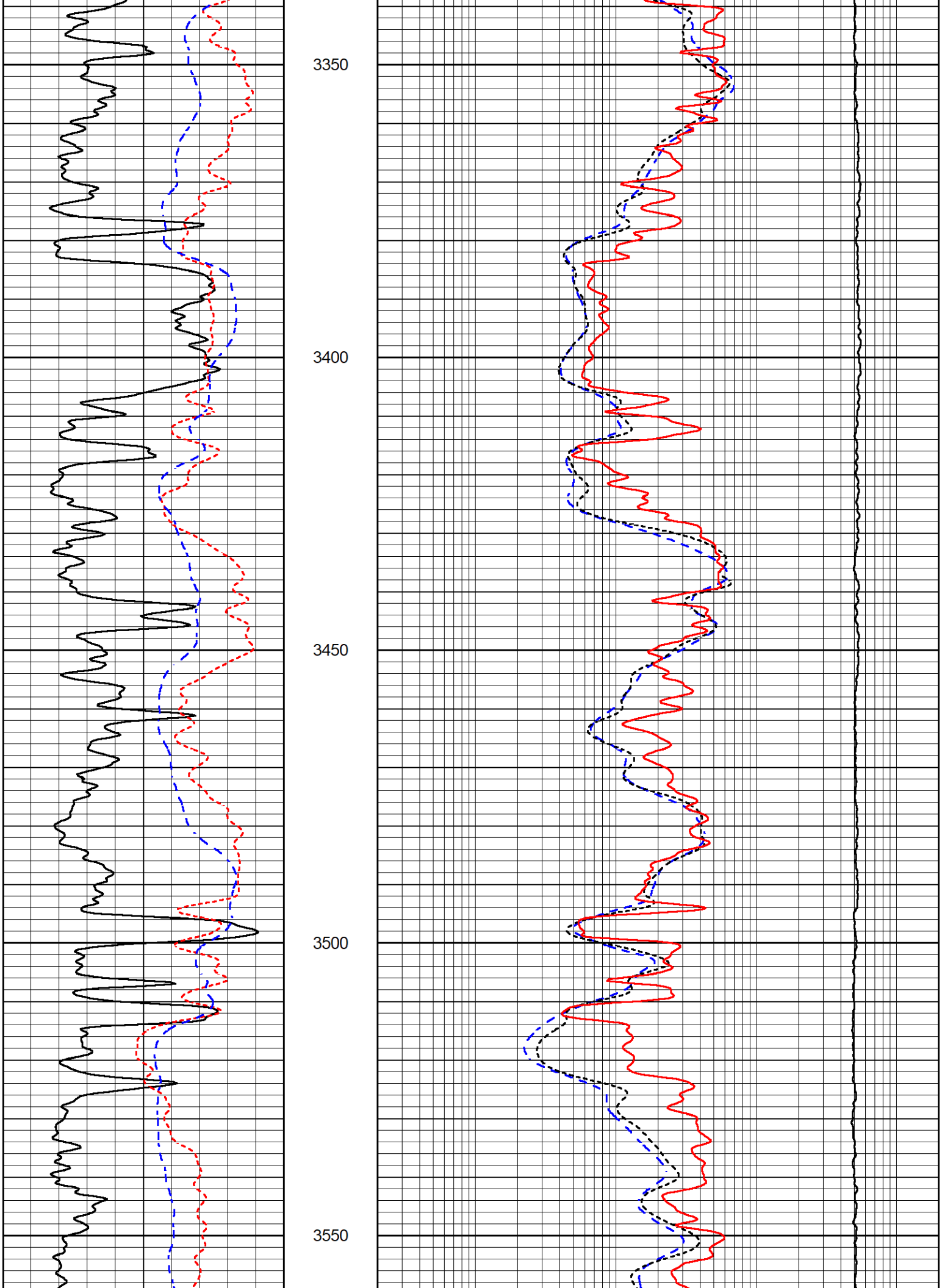
MIDWEST WIRELINE

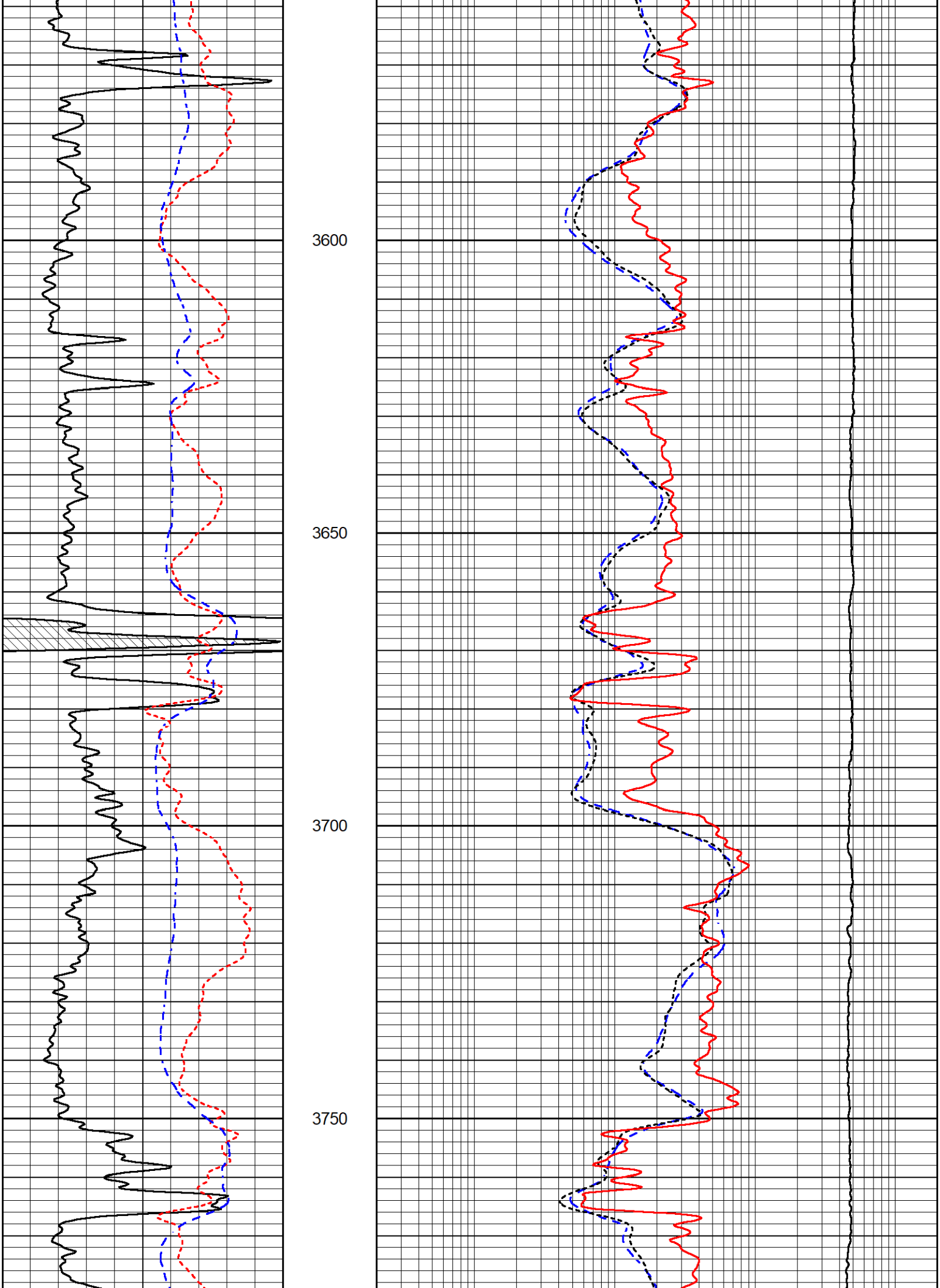
Database File	griffin_griffyn #2.db
Dataset Pathname	StkMI/pass3.1
Presentation Format	_dil
Dataset Creation	Sun Dec 18 18:22:25 2022
Charted by	Depth in Feet scaled 1:240

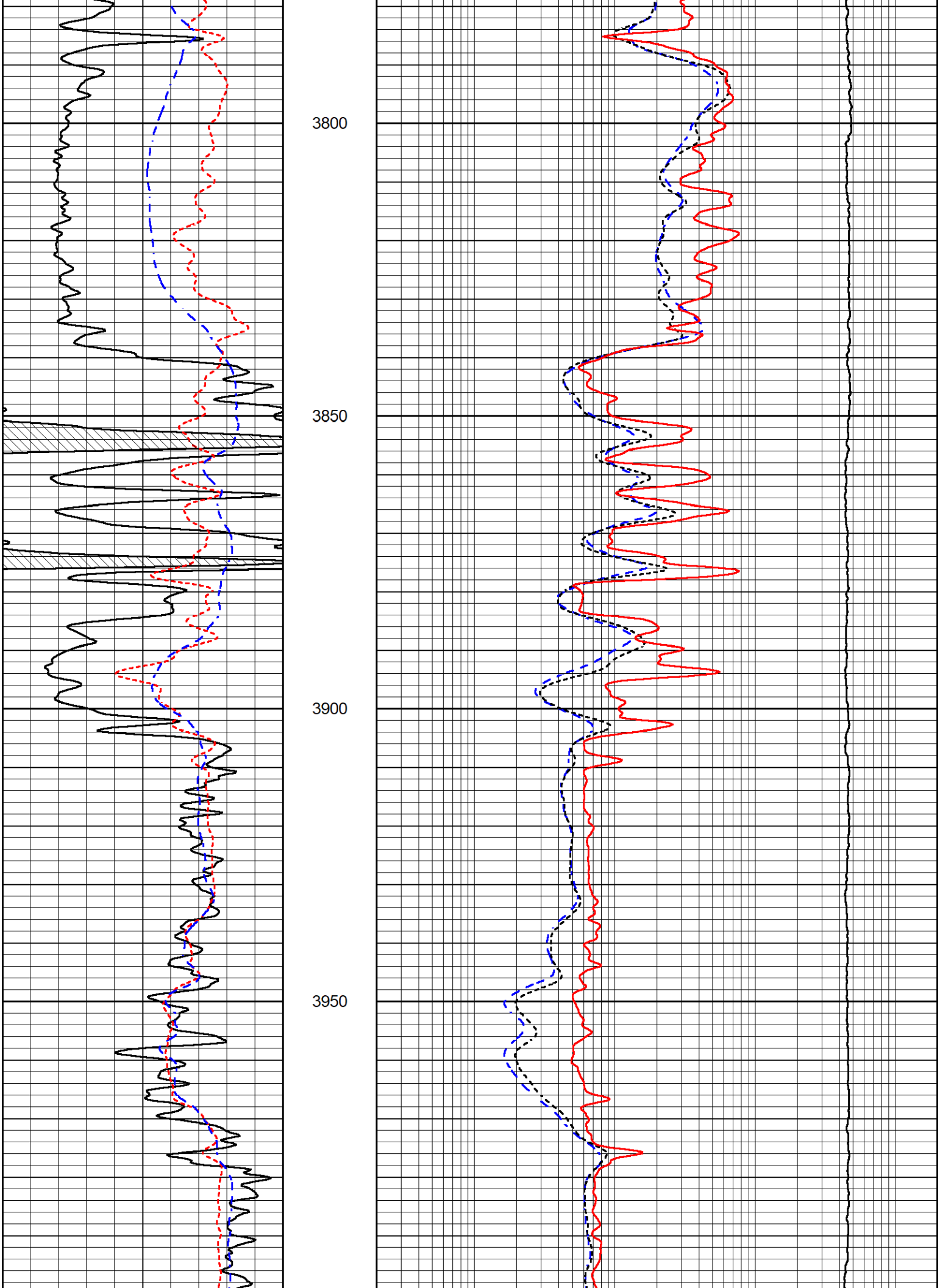


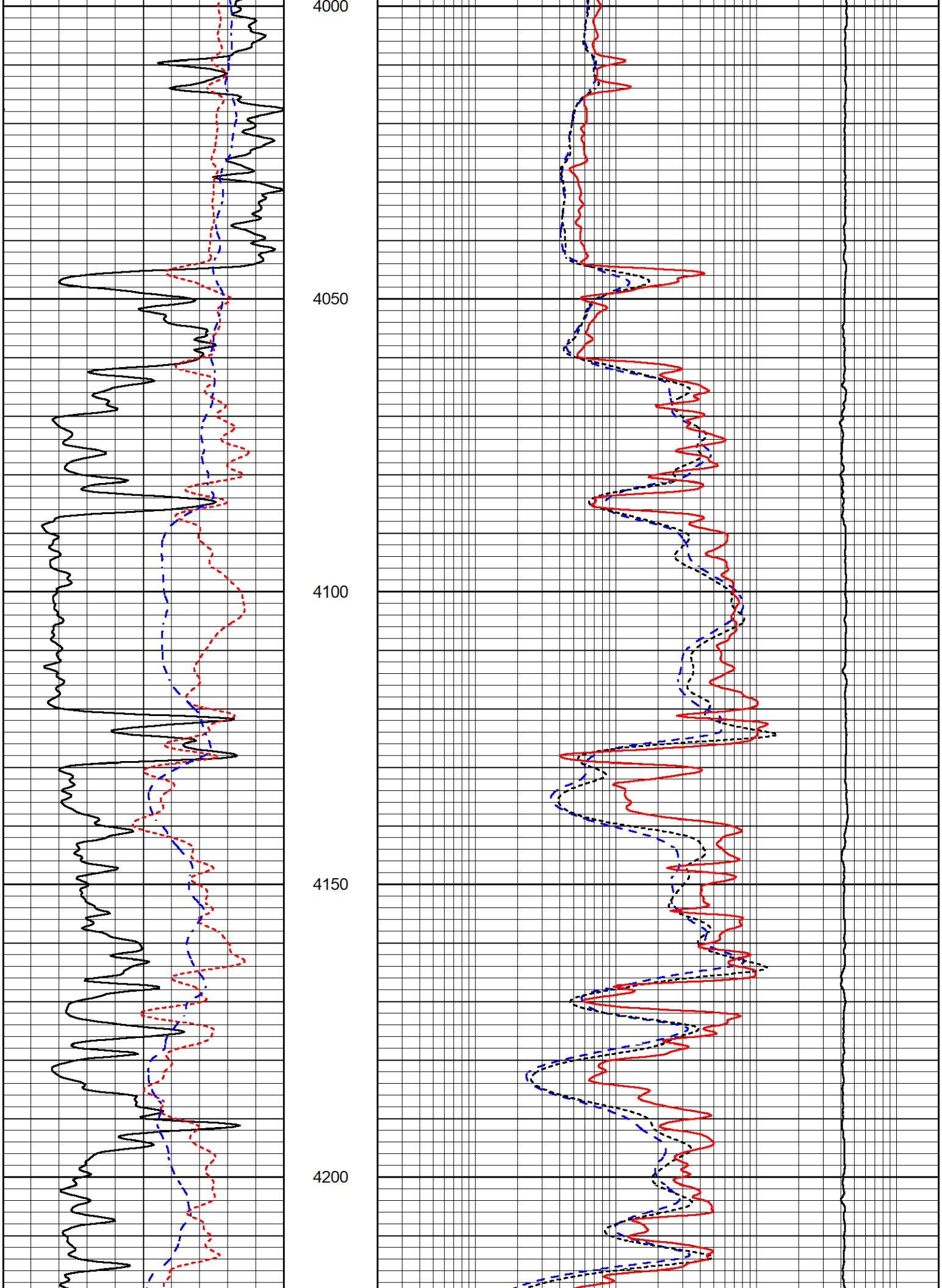

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2950
3000
3050
3100

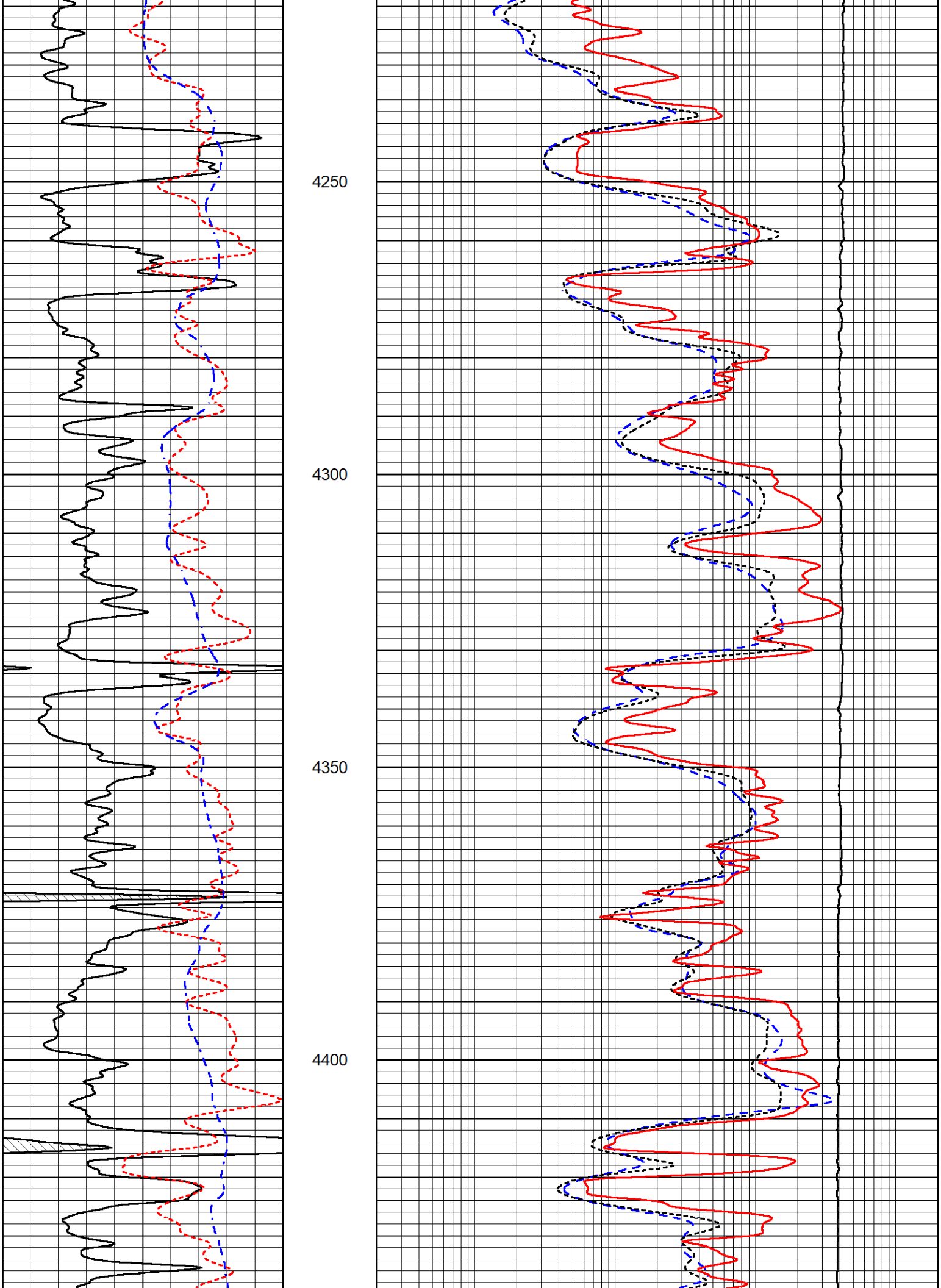

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3200
3250
3300

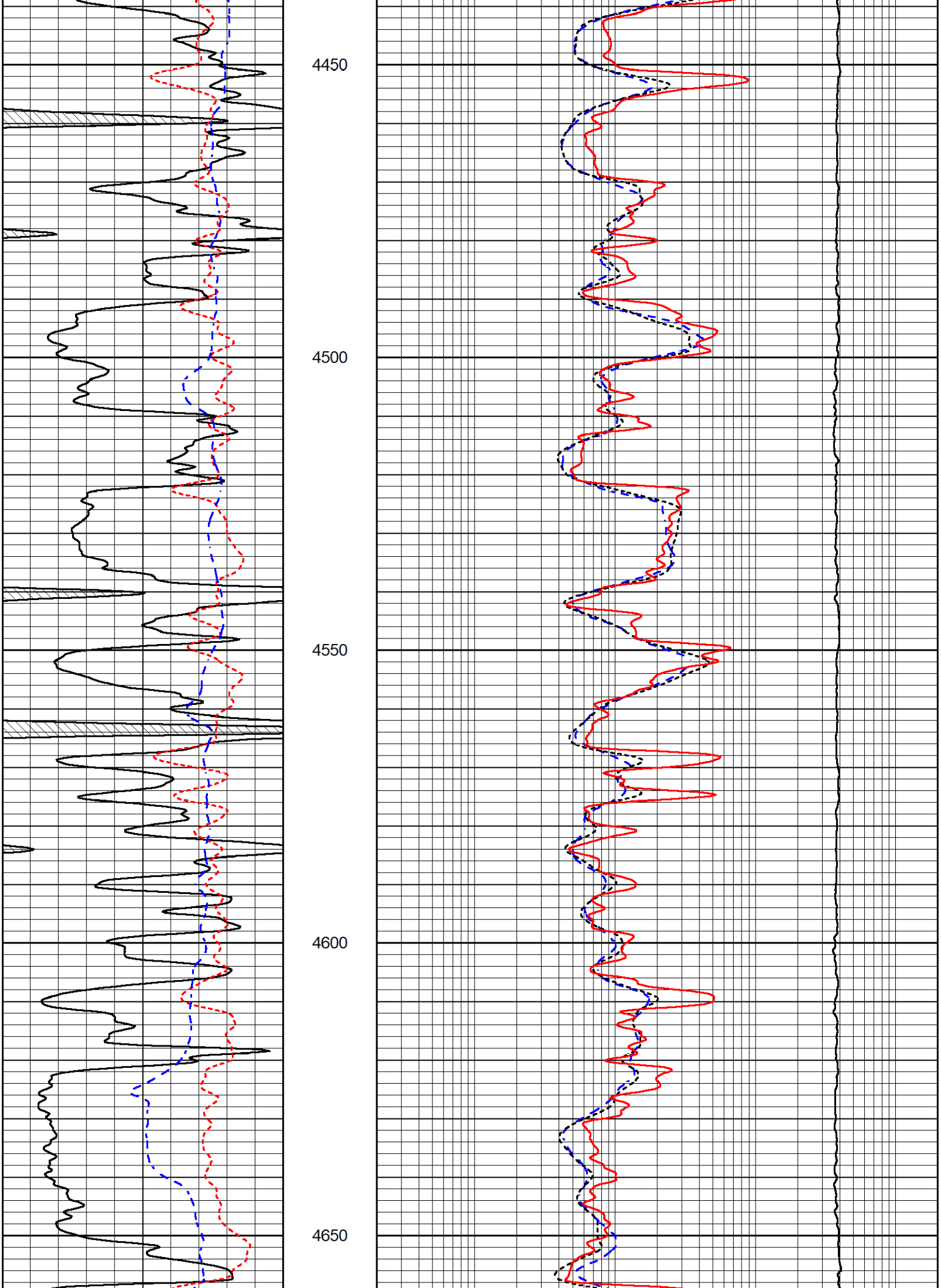

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3400
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3500
3550

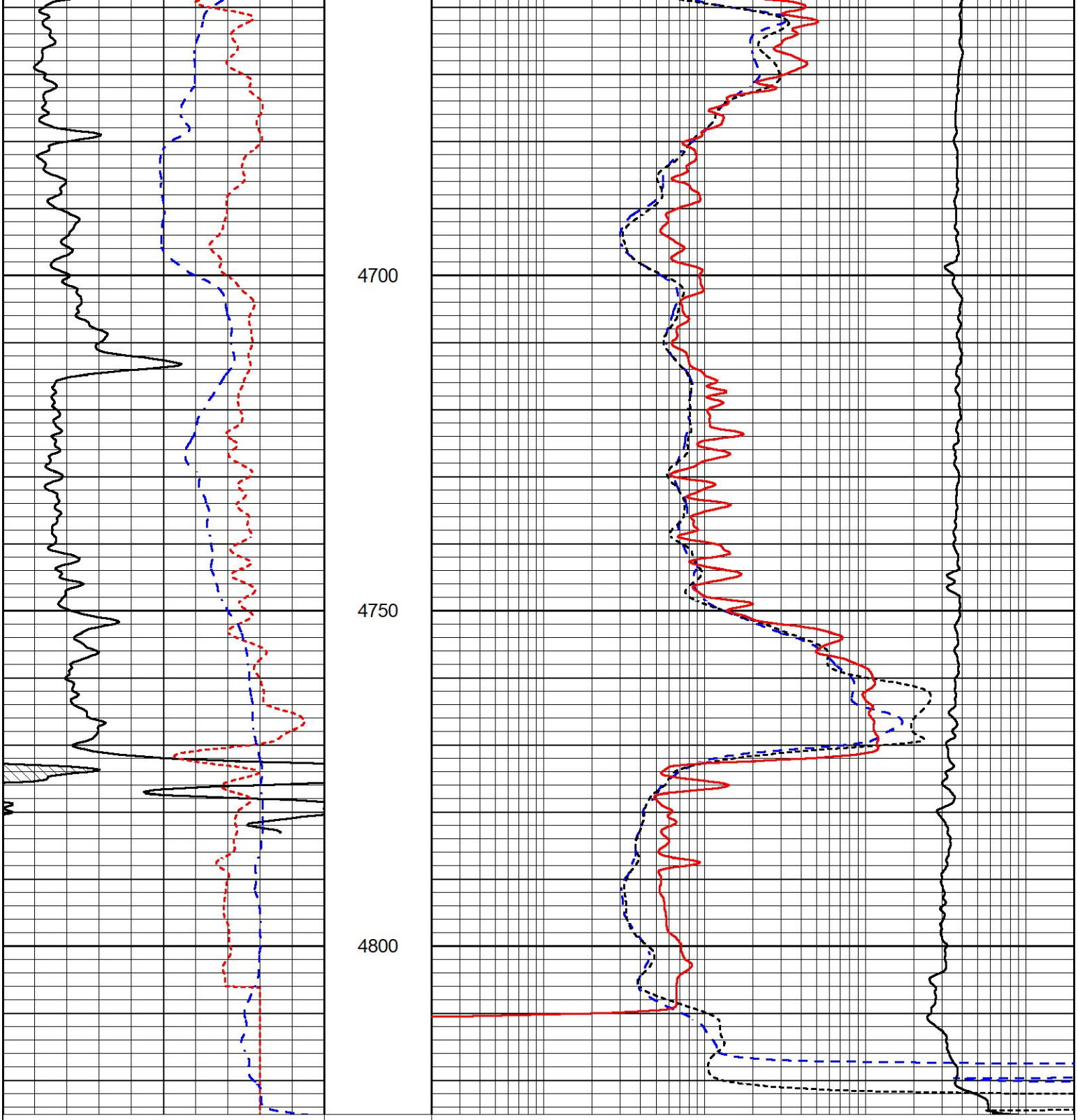

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3800
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4100
4150
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4400


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4650



MIDWEST WIRELINE

REPEAT SECTION

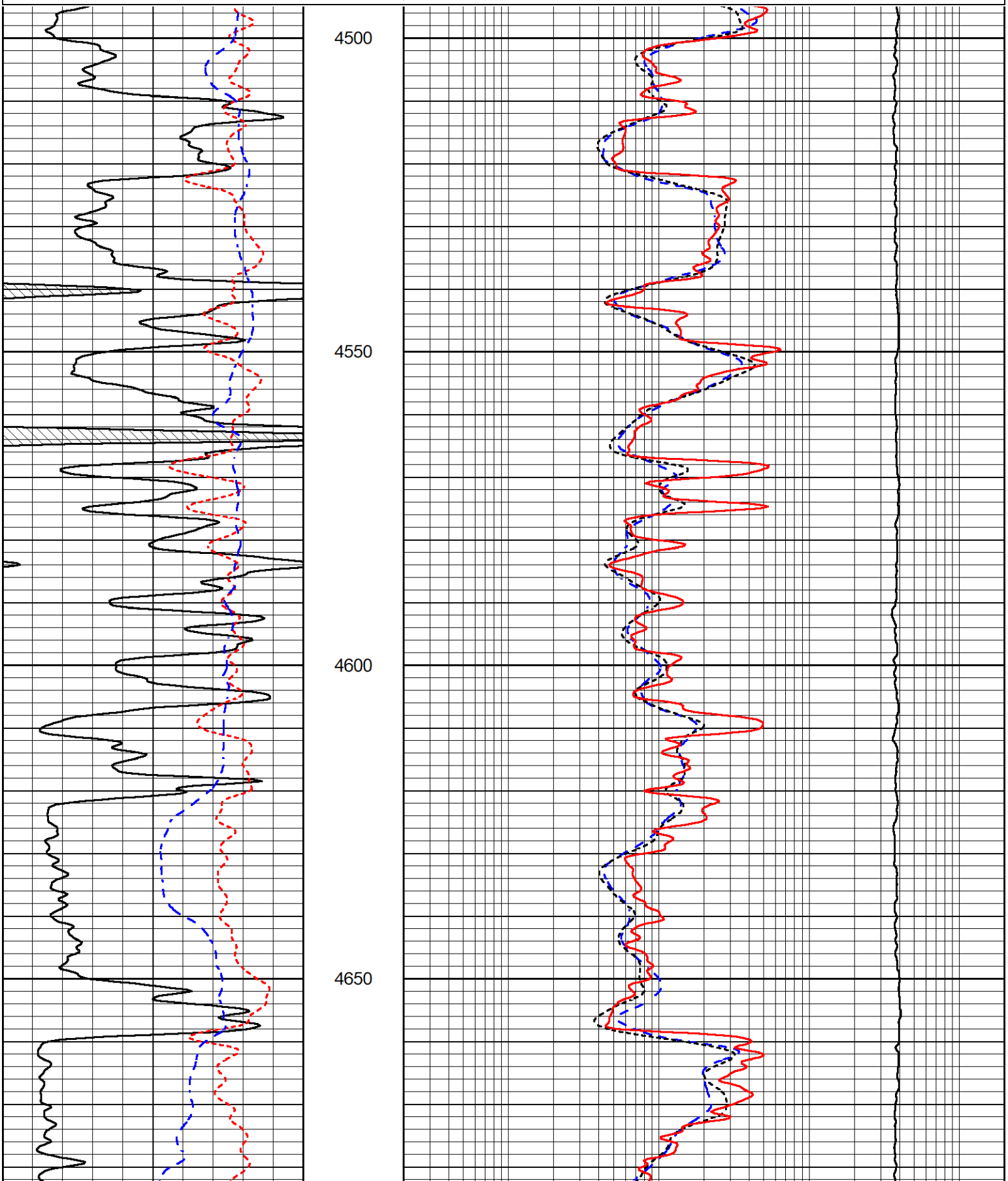
REPEAT PASS

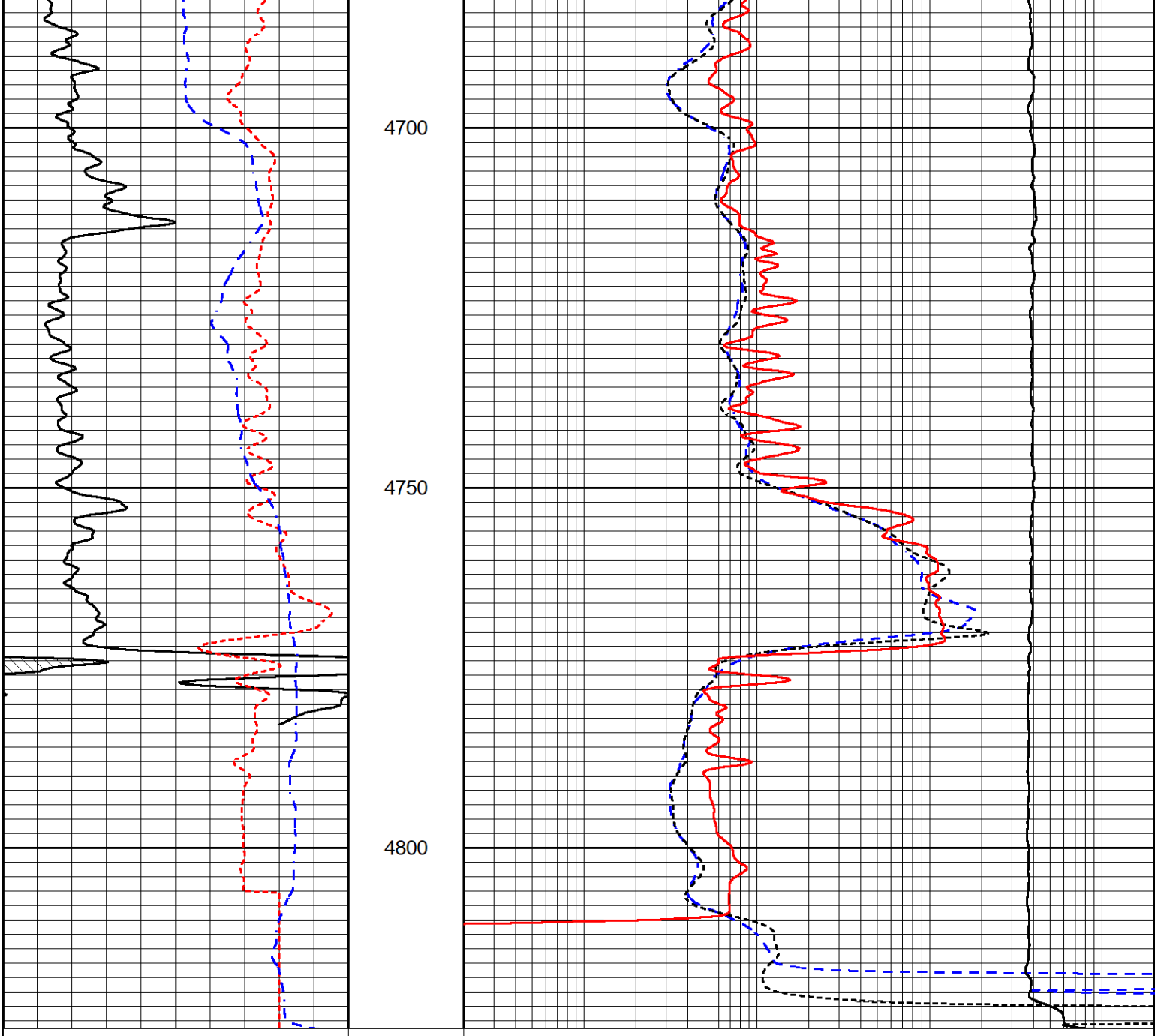
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Dataset Pathname	StkMI/pass2.1

Presentation Format	_dil
Dataset Creation	Sun Dec 18 17:36:03 2022
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-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	griffin_griffyn #2.db
Dataset Pathname	StkMl/pass3.1
Dataset Creation	Sun Dec 18 18:22:25 2022

Dual Induction Calibration Report

Serial-Model:	502 HT-M&W
Surface Cal Performed:	Tue Dec 6 09:44:10 2022

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.630	487.104	0.000	355.200	mmho/m	0.454	33.000
Medium	83.630	487.104	0.000	355.200	mmho/m	0.454	33.000

Deep	83.639	487.104	0.000	255.800	mmho/m	0.454	-33.000
Medium	113.335	1585.690	0.000	255.800	mmho/m	0.350	-11.000

Microlog Calibration Report

Serial-Model: 401-PSIML
Performed: Mon Jun 27 17:53:09 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-1.3000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	14000.0000	-0.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.5000

Compensated Density Calibration Report

Serial-Model: 307-08-M&W
Source #: 20762B
Master Calibration Performed: Thu Dec 8 14:11:34 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4131.04	5675.82	cps
Aluminum	2.650	g/cc	781.38	3576.78	cps

Spine Angle = 74.50 Density/Spine Ratio = 0.518

	Size		Reading
Small Ring	6.00	in	1.16
Large Ring	18.00	in	1.01

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

PRE-SURVEY VERIFICATION

	Detector	Readings		Measured	Target
1)	Short Space		cps		
	Long Space		cps	pu	pu
2)	Short Space		cps		
	Long Space		cps	pu	
3)	Short Space		cps		
	Long Space		cps	pu	

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target

1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	106	
Tool Model:	M&W	
Performed:	Fri Dec 3 15:10:46 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps

MIDWEST WIRELINE

Company	Griffin Management LLC
Well	Griffyn #2
Field	Moffett West
County	Barber
State	Kansas