MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Talon Group, LLC
Well Selfridge #2-11
Field N/A
County Lane State Kansas

Location: API # : 15-101-22645-00-00
2395' FNL & 880' FWL
SEC 11 TWP 18S RGE 28W

Other Services: CNL/CDL, MEL

Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	2728'

Elevation: K.B. 2738', D.F. N/A, G.L. 2728'

Date	2/4/2021			
Run Number	One			
Depth Driller	4640'			
Depth Logger	4642'			
Bottom Logged Interval	4641'			
Top Log Interval	250'			
Casing Driller	8.625" @ 262'			
Casing Logger	262'			
Bit Size	7.875"			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	3300			
Density / Viscosity	9.3 / 59			
pH / Fluid Loss	11.0 / 8.0			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.60 @ 40			
Rmf @ Meas. Temp	0.45 @ 40			
Rmc @ Meas. Temp	0.81 @ 40			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.20 @ 122			
Operating Rig Time	4 Hours			
Max Rec. Temp. F	122			
Equipment Number	P-24			
Location	HAYS			
Recorded By	D. Schmidt			
Witnessed By	Vern Schrag			

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Dighton,
East to Pawnee Rd,
1 1/2 North, West into about 3/4 mile

Log Measured From: Kelly Bushing 10 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: D. Schmidt	Primary Witness: Vern Schrag
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-M&W (233-M&W)	3.00	3.50	50.00
GR	33.00					
CNLSC	29.90		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	29.15					
			CDL-M&W (817-947)	8.50	4.00	250.00
LSD	20.85					
DCAL	20.83					
SSD	20.35					
RLL3F	15.80					
RLL3	15.80					
			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset: talon_selfridge 2-11.db: field/well/stack/pass4.1
Total length: 35.50 ft
Total weight: 620.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\talon_selfridge 2-11.db
Dataset field/well/stack/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	4.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	655	0	Off	0

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

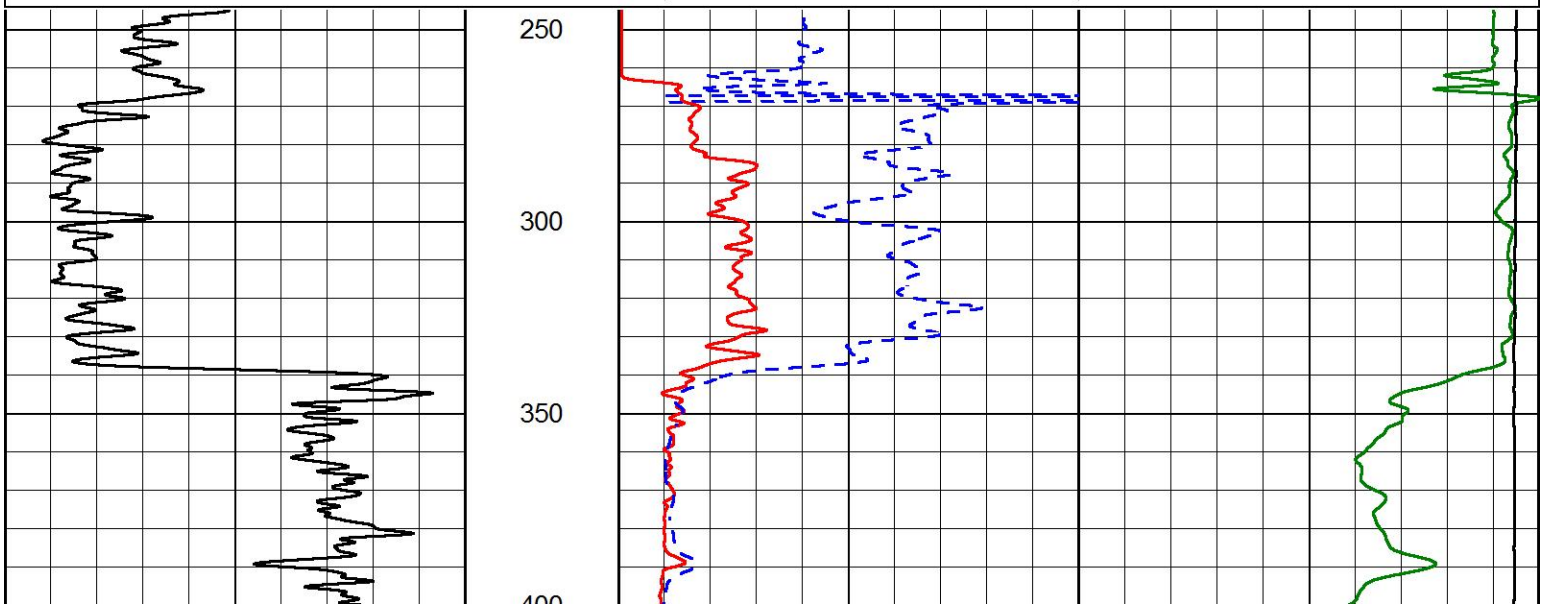
MIDWEST WIRELINE

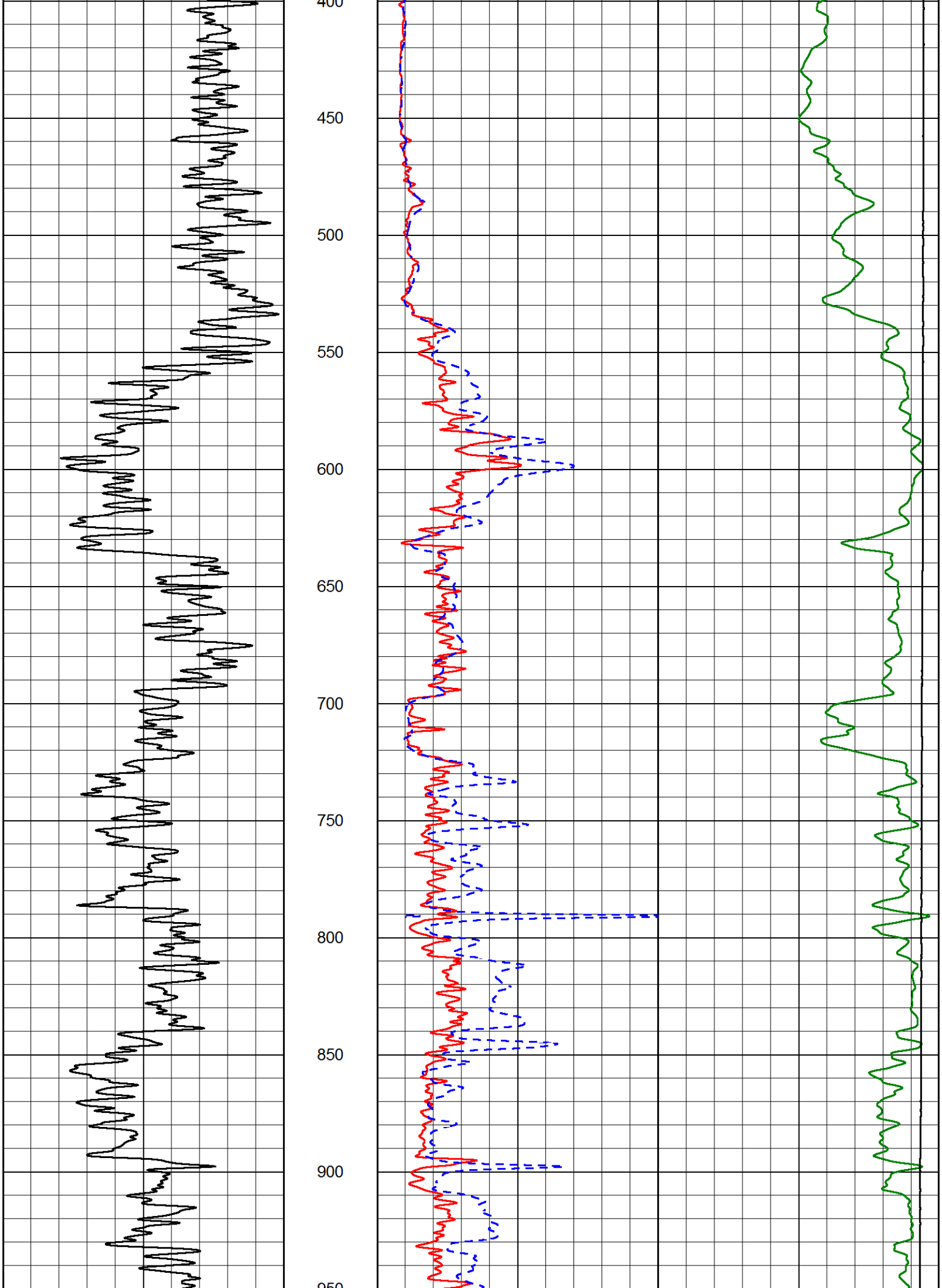
MAIN PASS

Database File	talon_selfridge 2-11.db
Dataset Pathname	stack/pass5.1
Presentation Format	_dil2in
Dataset Creation	Thu Feb 04 08:22:55 2021
Charted by	Depth in Feet scaled 1:600

GAMMA RAY
0 (GAPI) 150

1000 CONDUCTIVITY (mmho/m) 0
15000 Line Tension (lb) 0
0 RLL3 (Ohm-m) 50
0 RILD (Ohm-m) 50
50 RLL3 (Ohm-m) 200
50 Deep Resistivity (Ohm-m) 200

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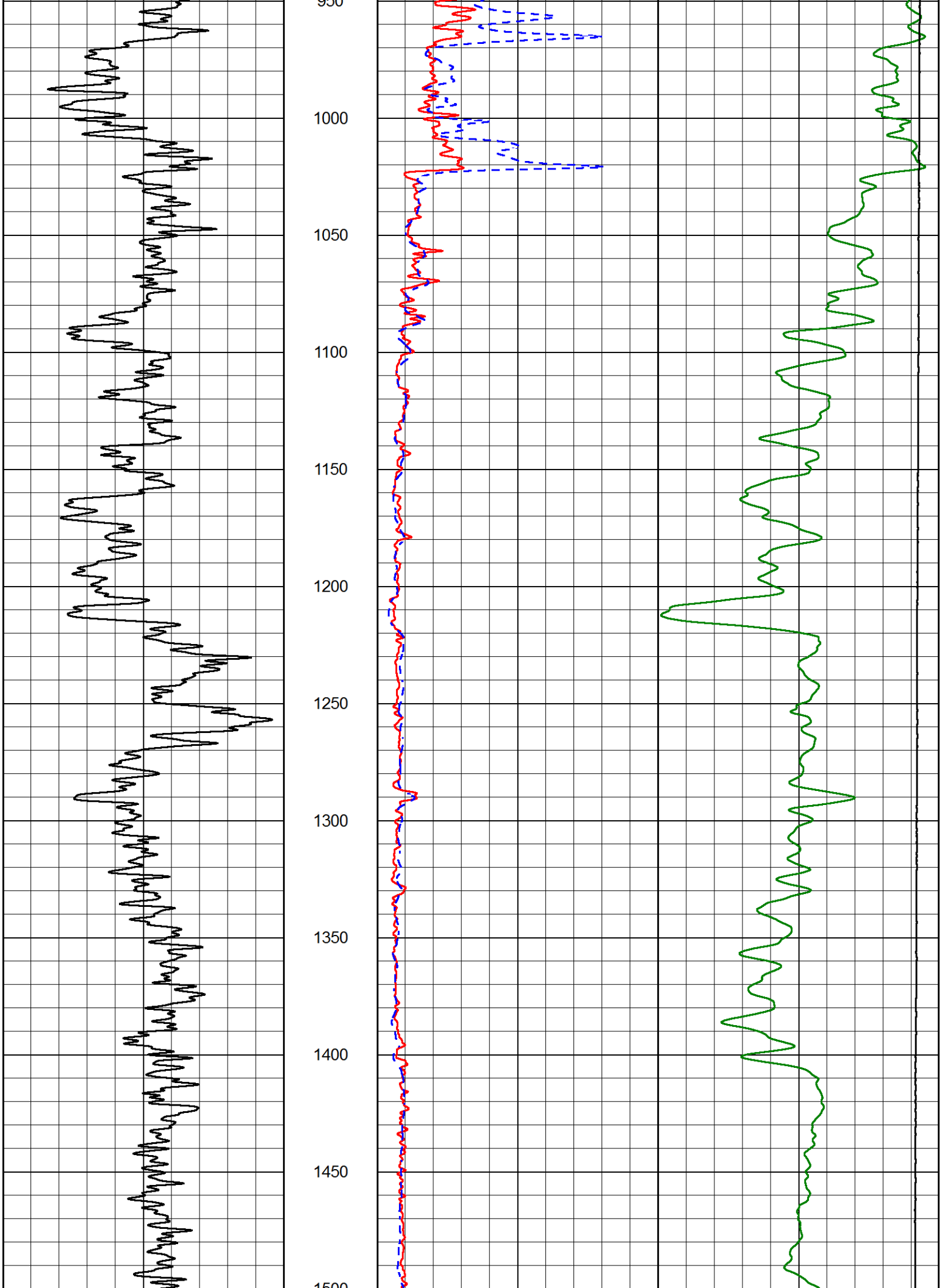
900
950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1100
1150
1200
1250
1300
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1400
1450
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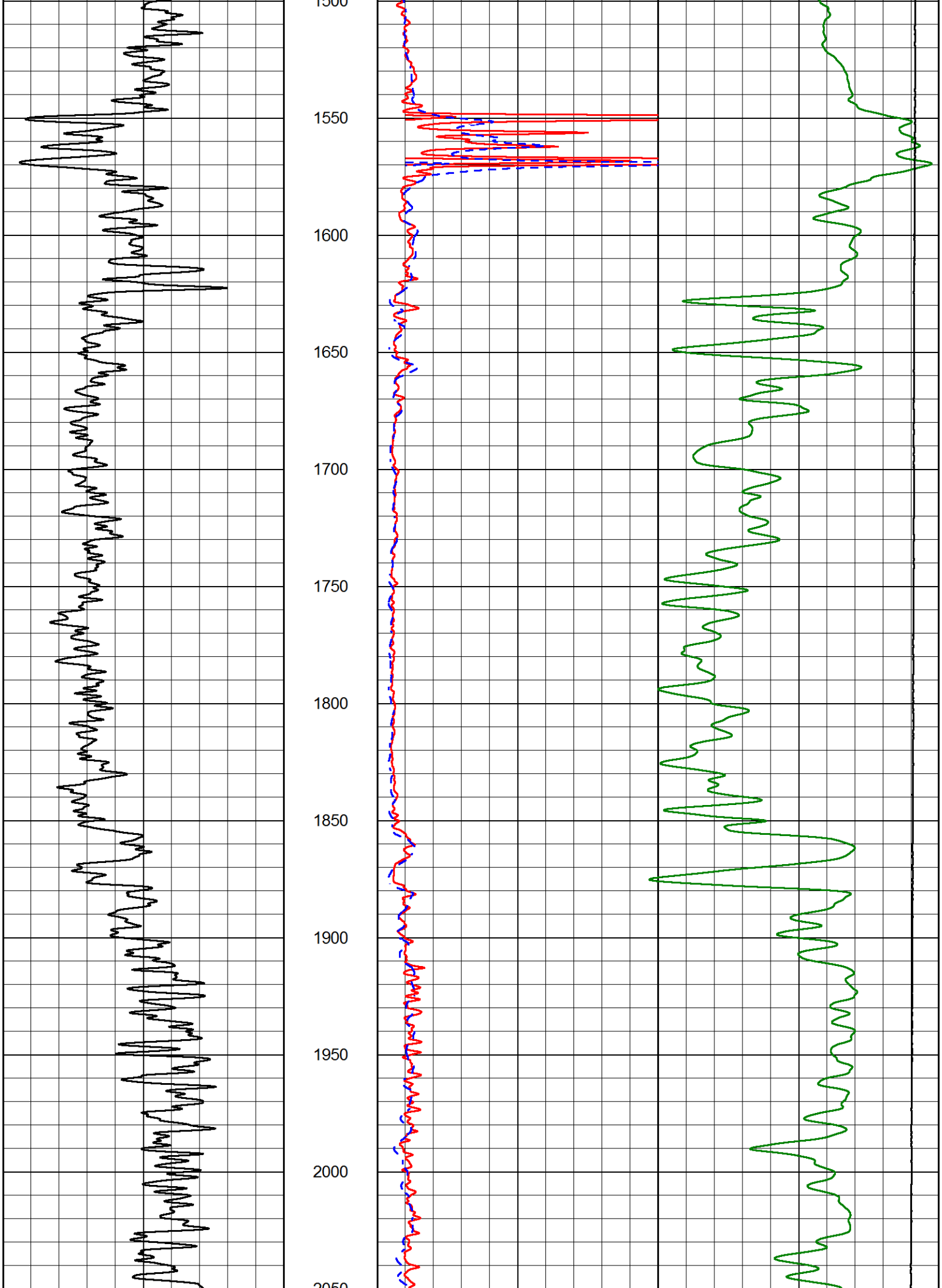
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1900
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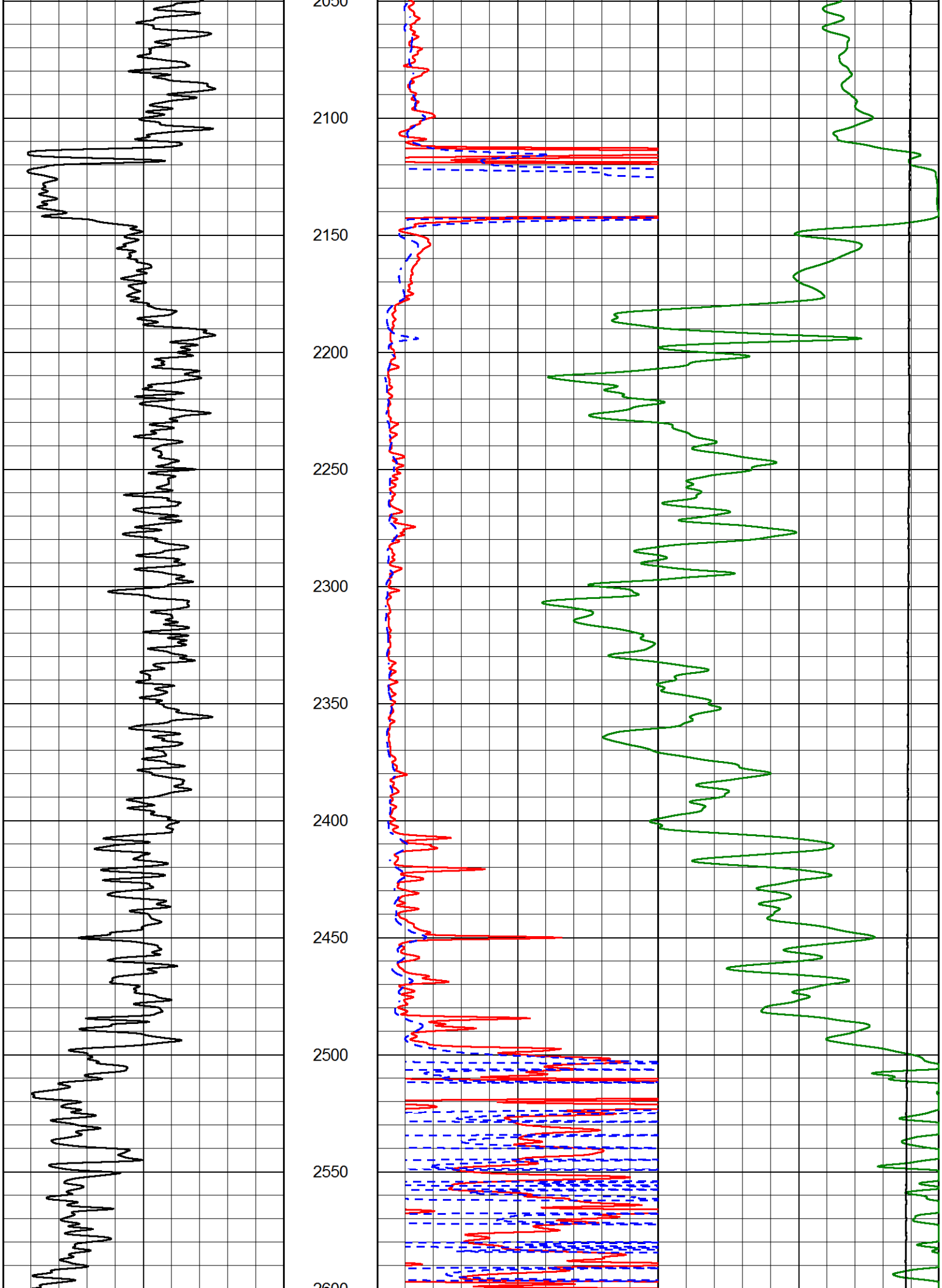
2000
2050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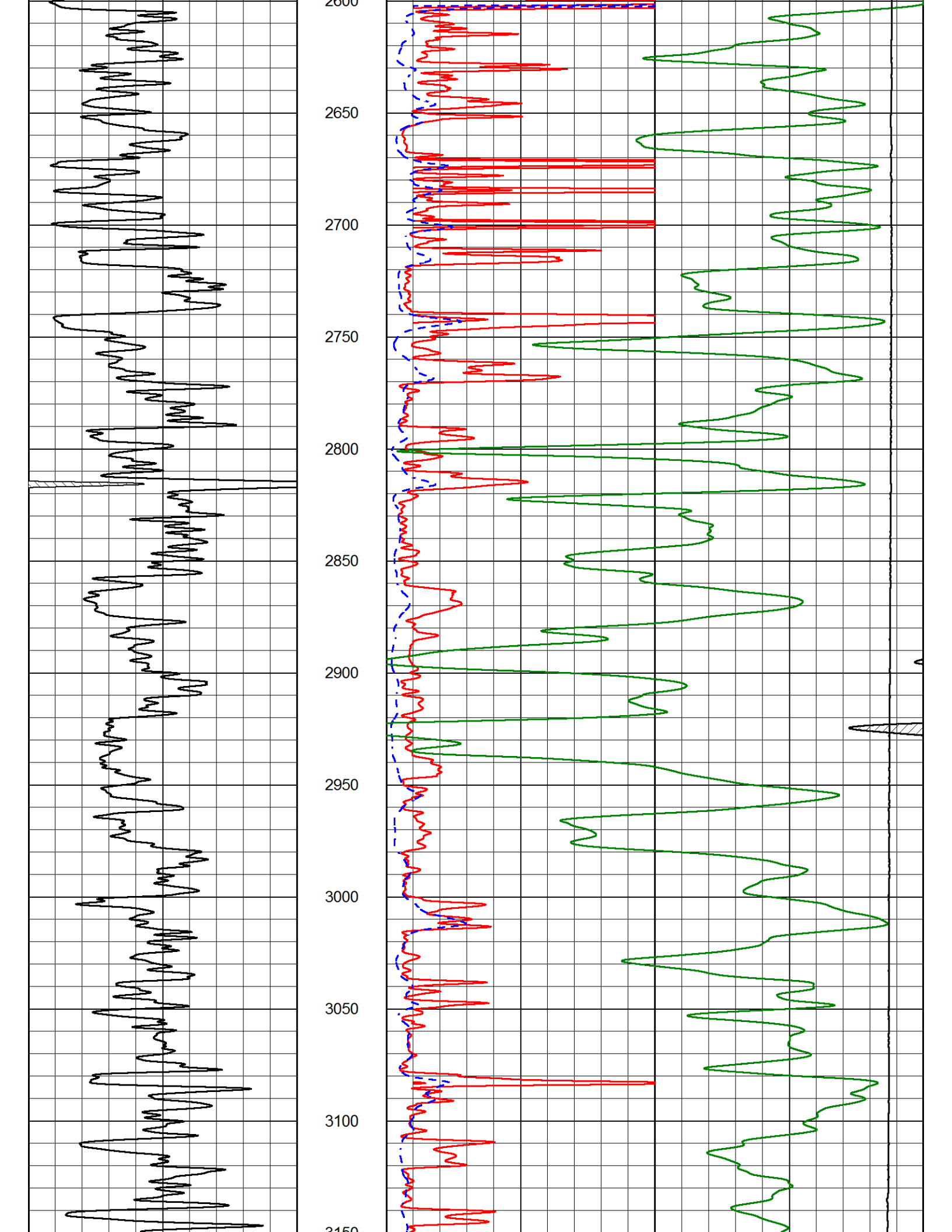
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3050
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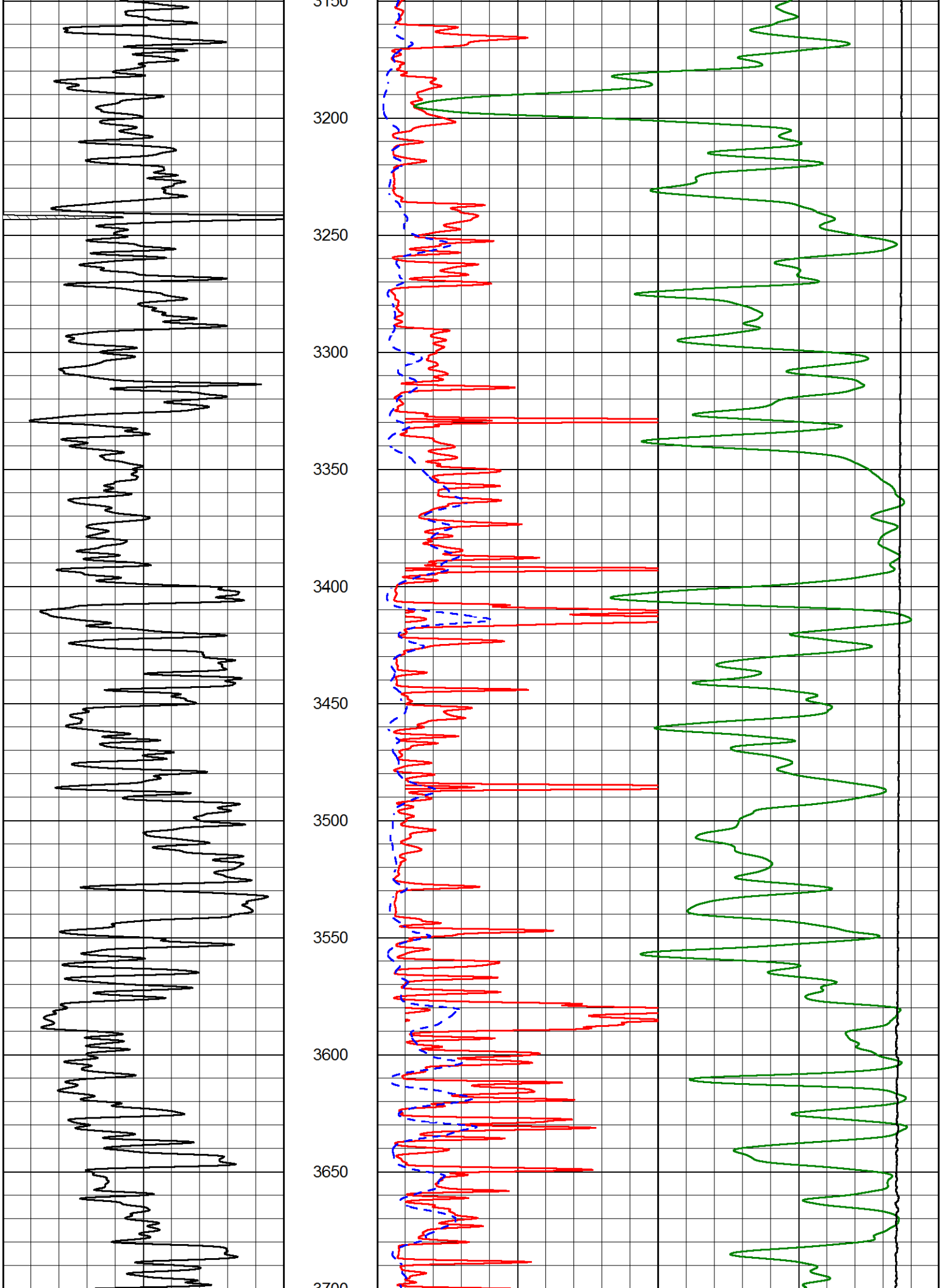
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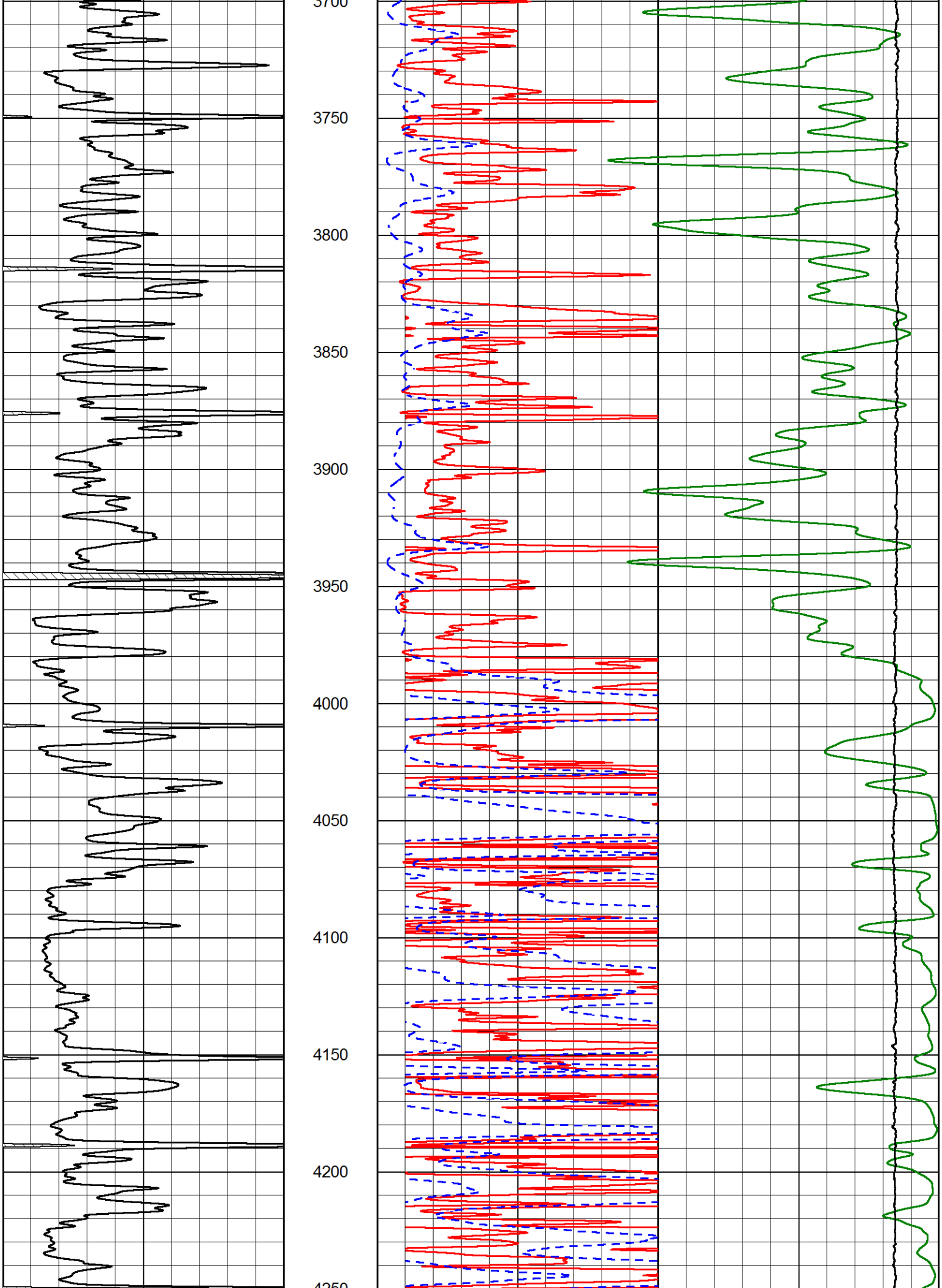
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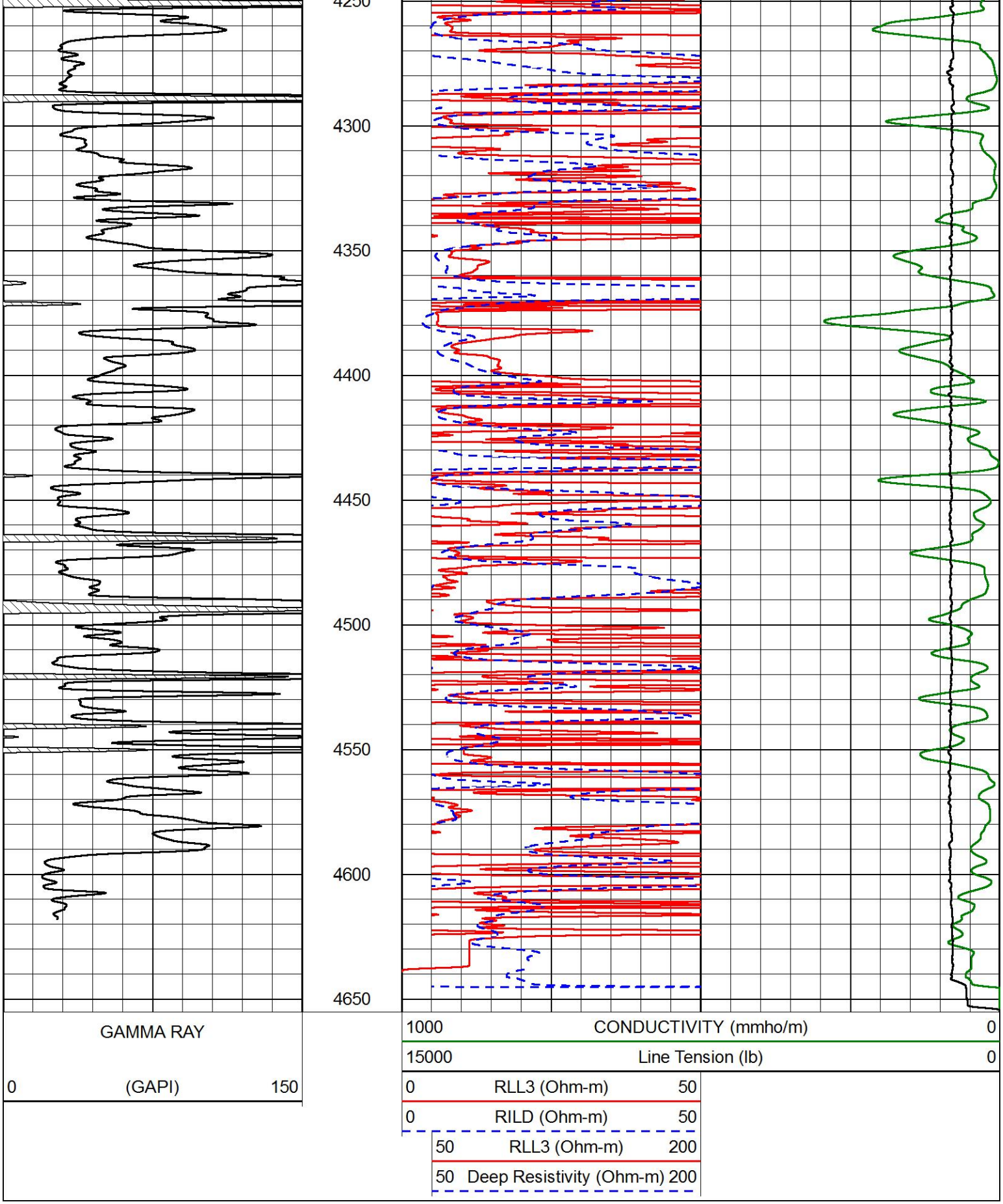
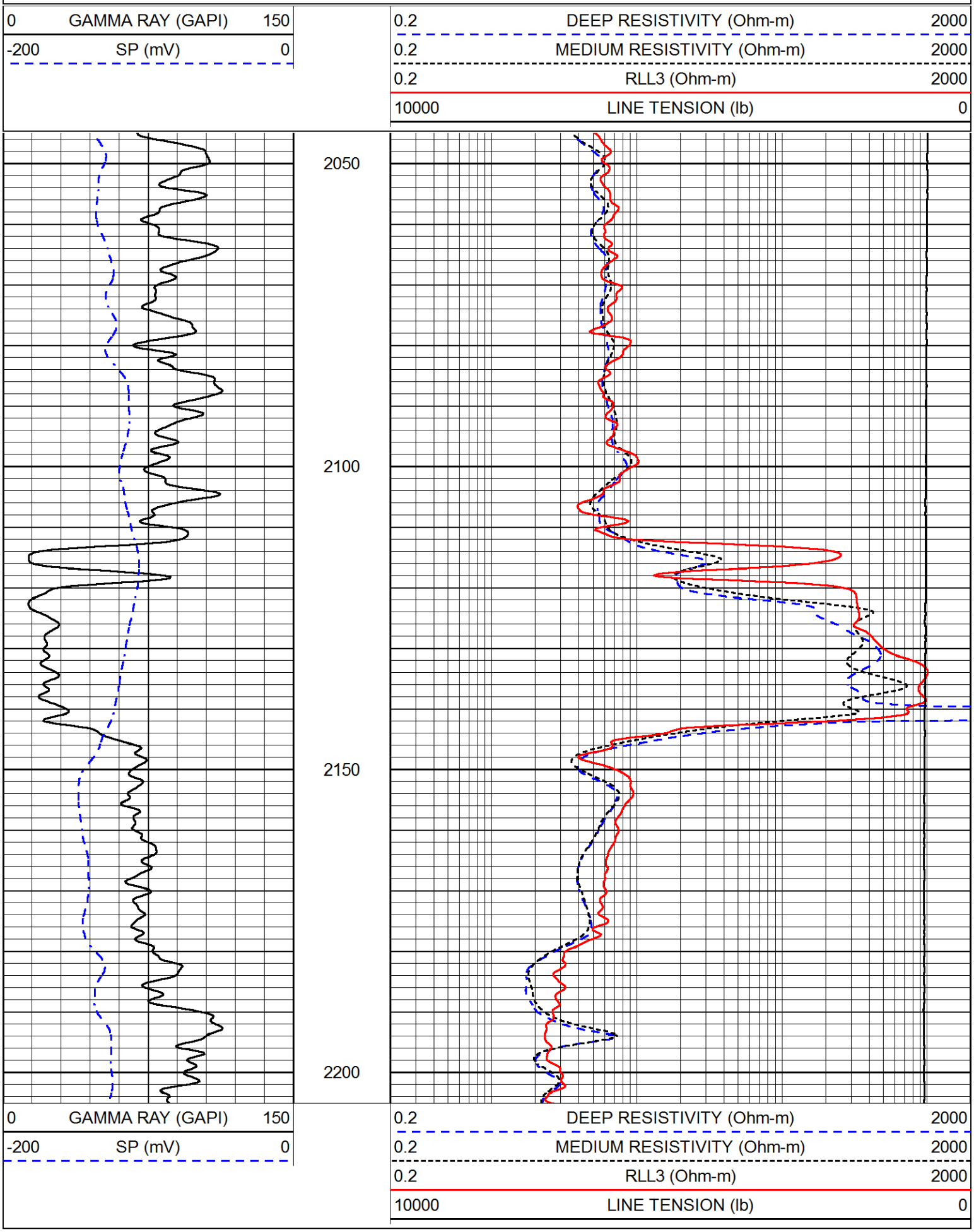


MIDWEST WIRELINE

MAIN PASS

Database File	talon_selfridge 2-11.db
Dataset Pathname	stack/pass5.1
Presentation Format	_dil
Dataset Creation	Thu Feb 04 08:22:55 2021
Charted by	Depth in Feet scaled 1:240



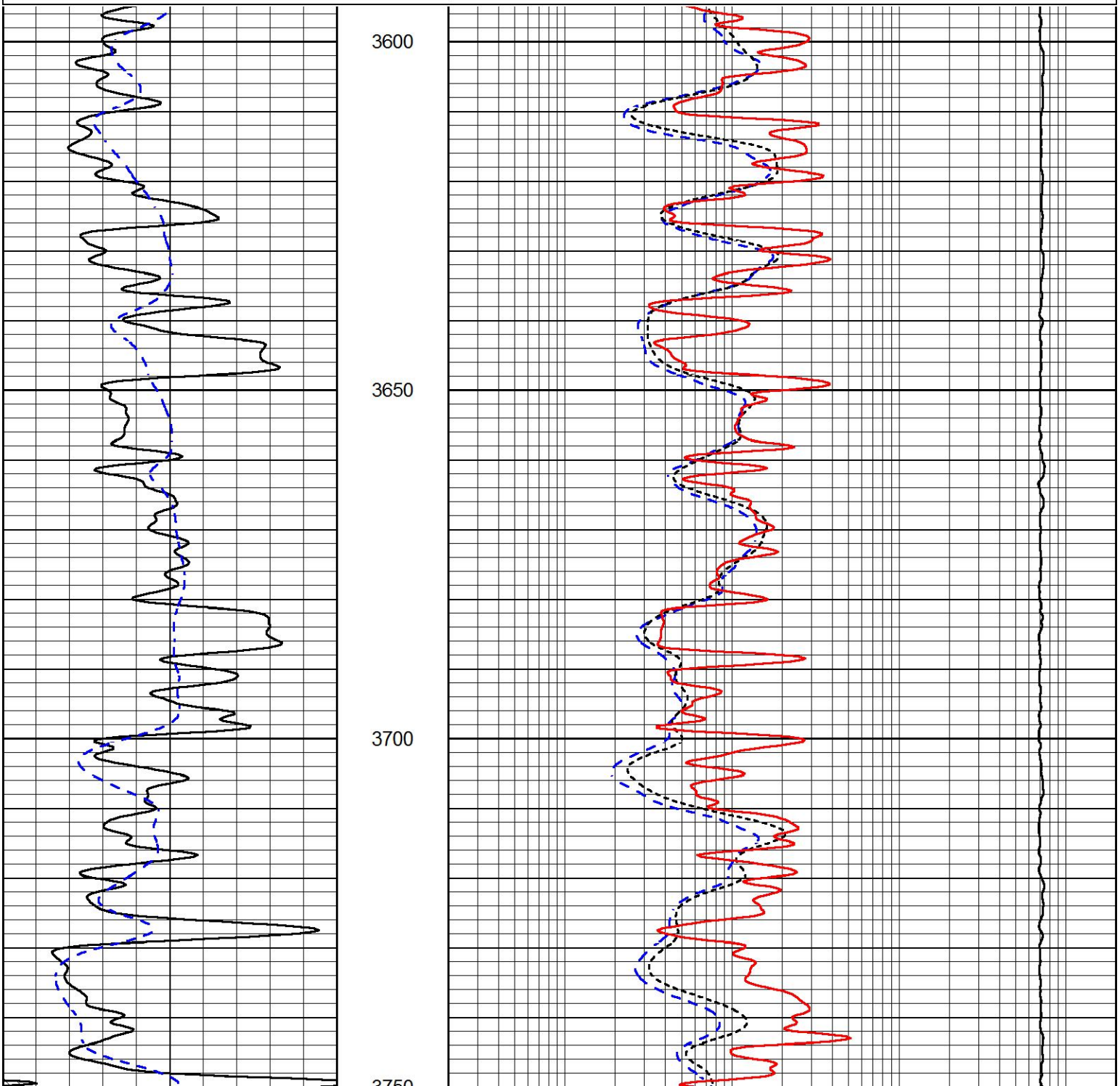
MAIN PASS

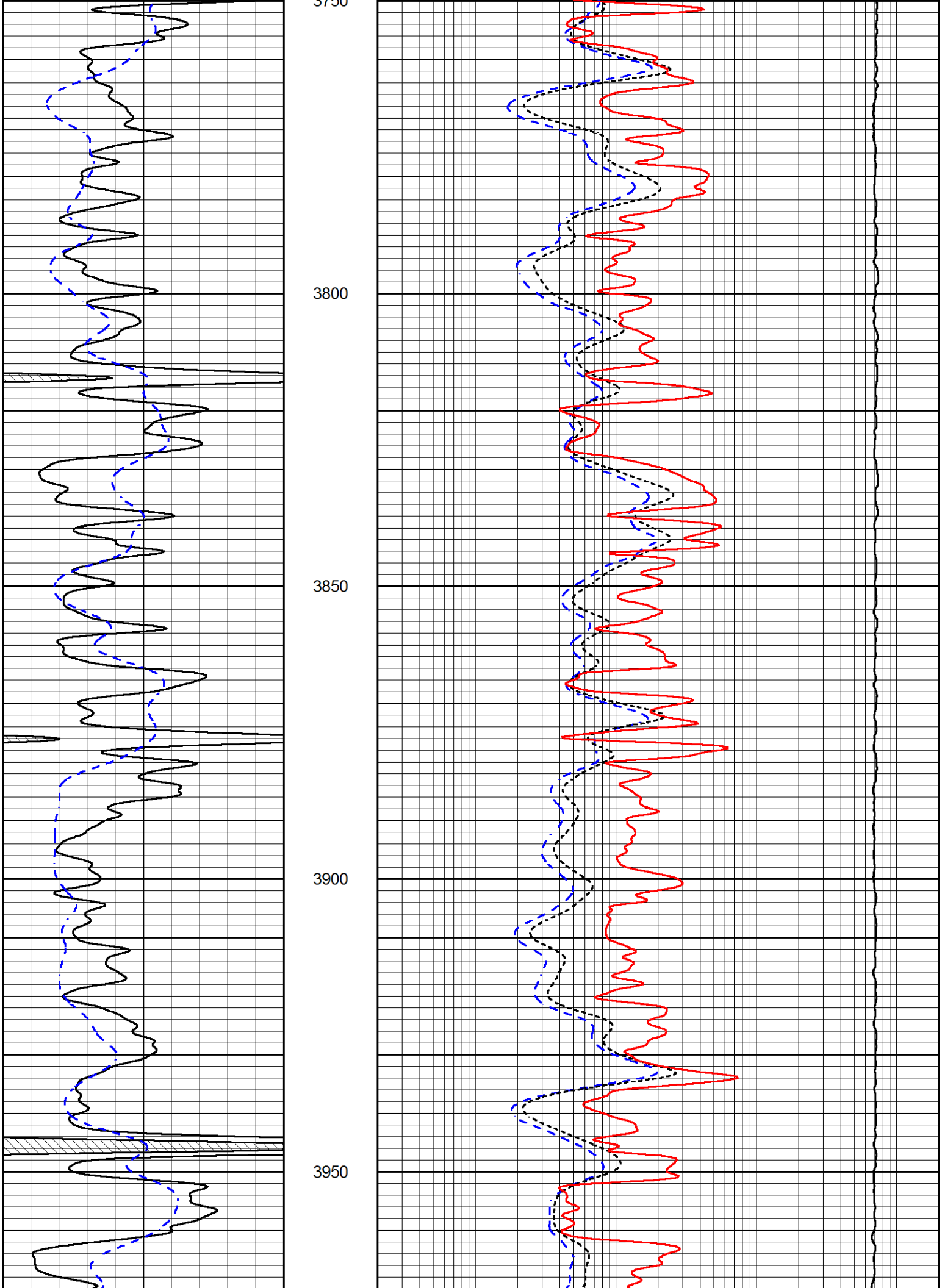
MIDWEST WIRELINE

Database File	talon_selfridge 2-11.db
Dataset Pathname	stack/pass4.1
Presentation Format	_dil
Dataset Creation	Thu Feb 04 07:41:13 2021
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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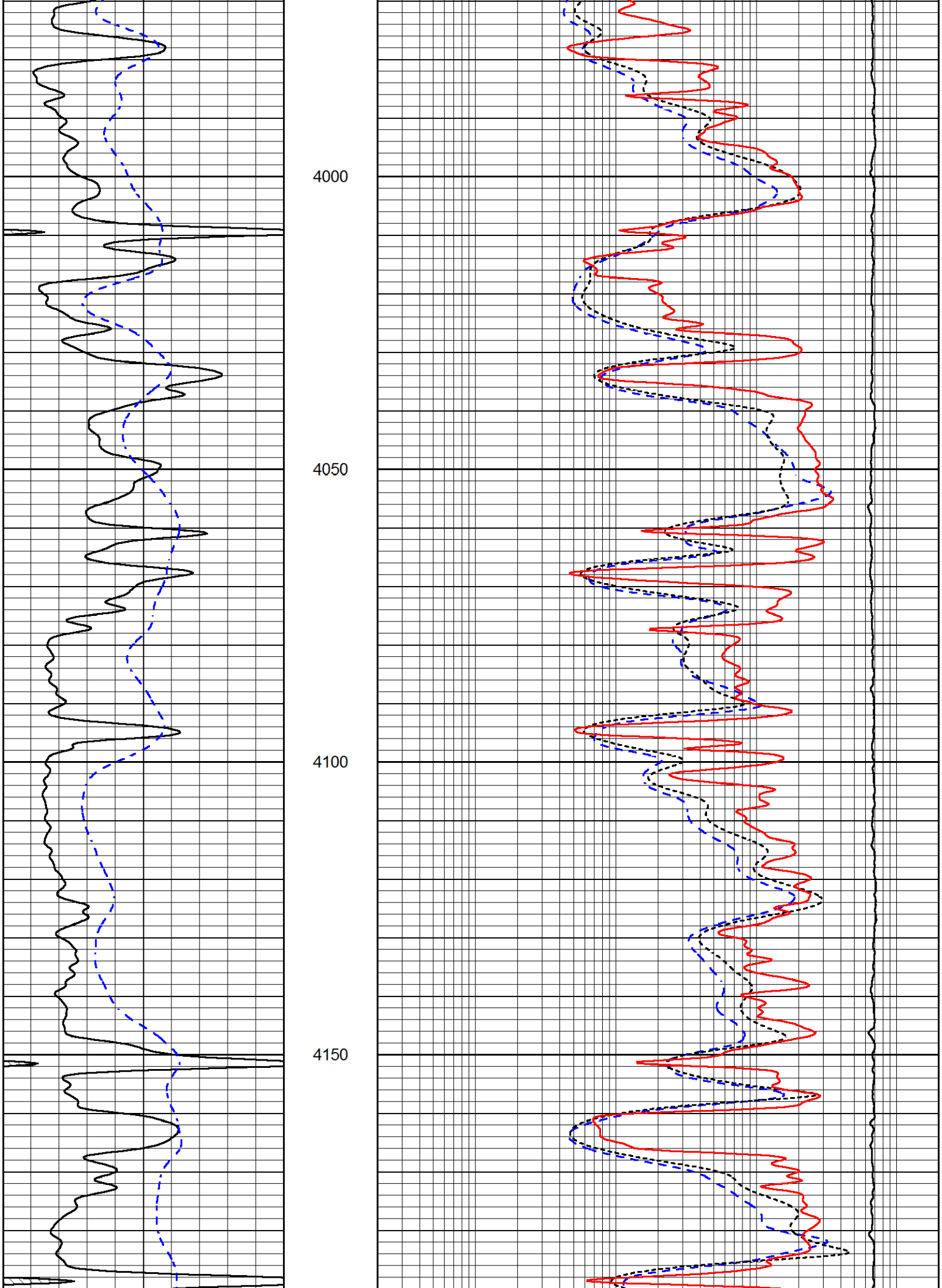
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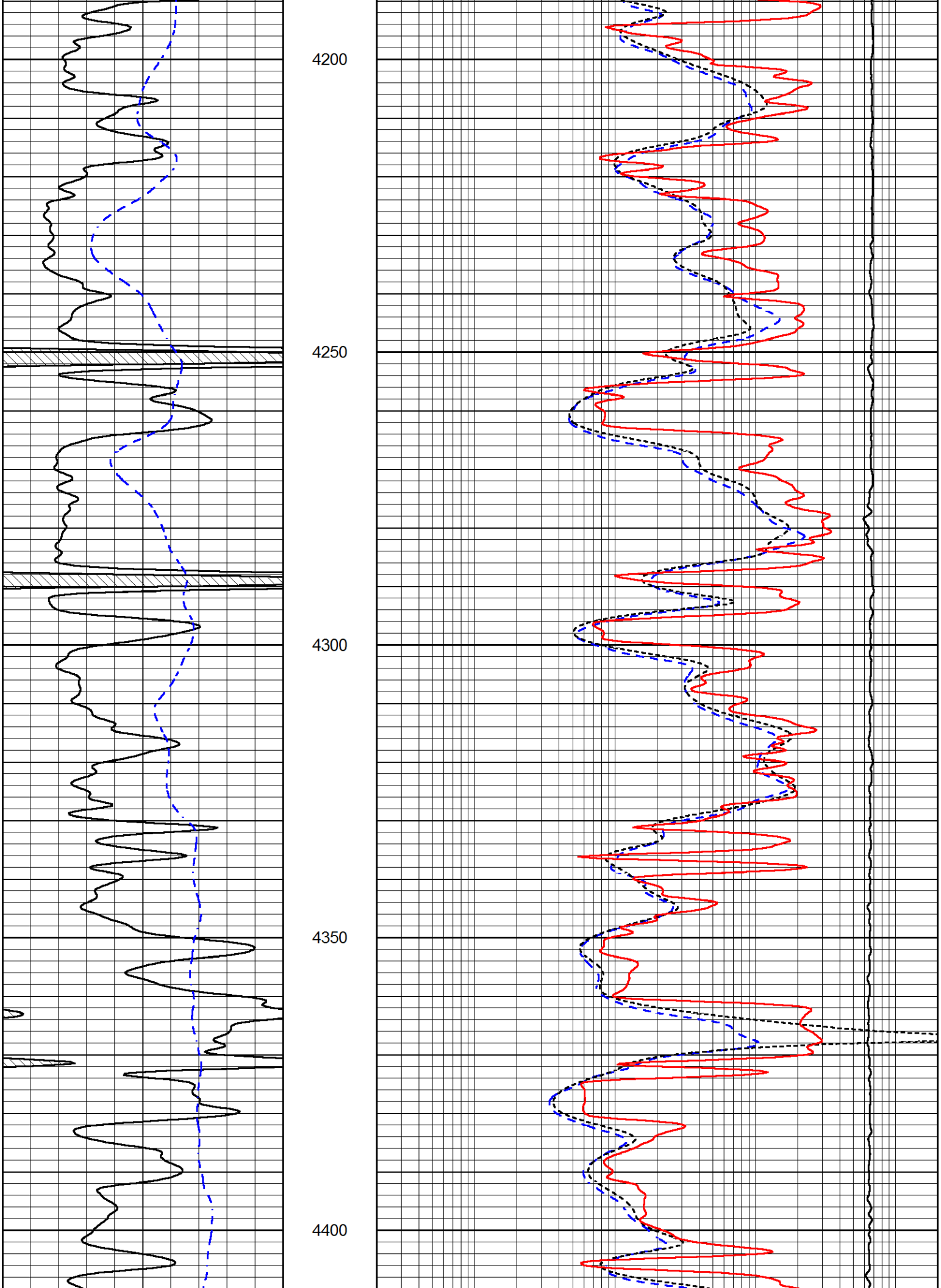
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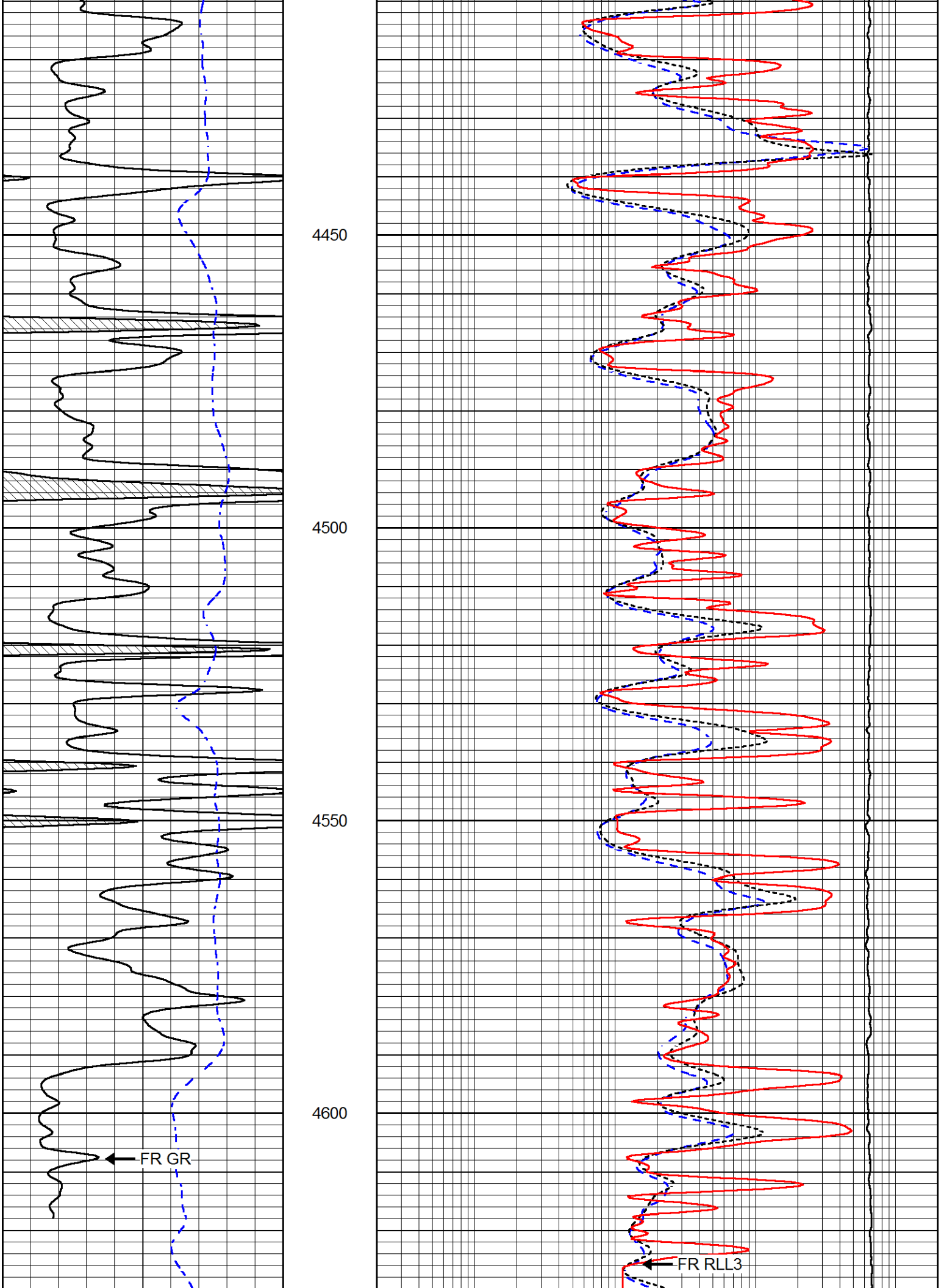
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4500
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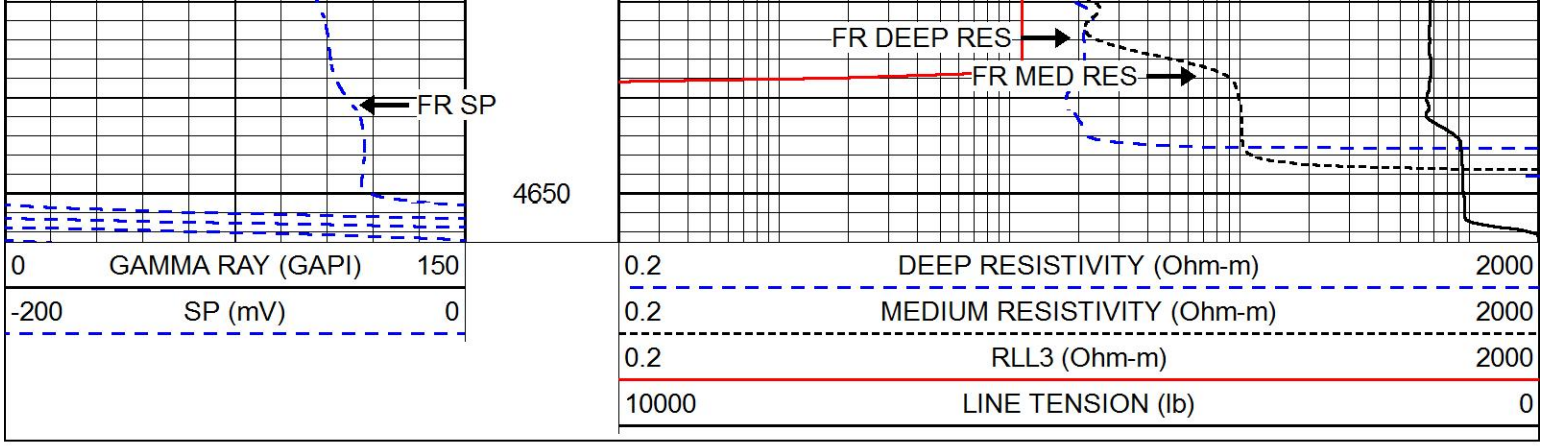
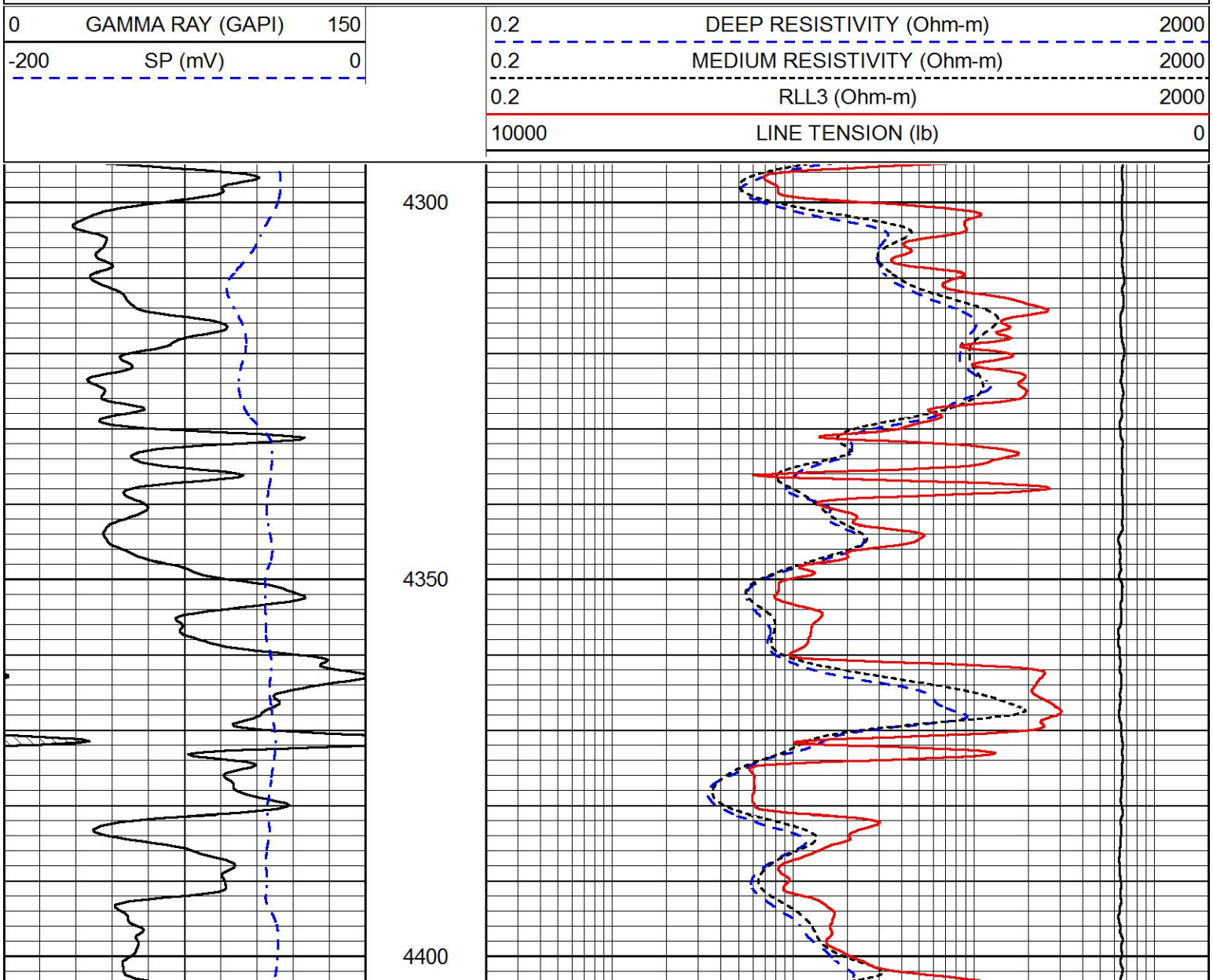
FR GR
FR RLL3

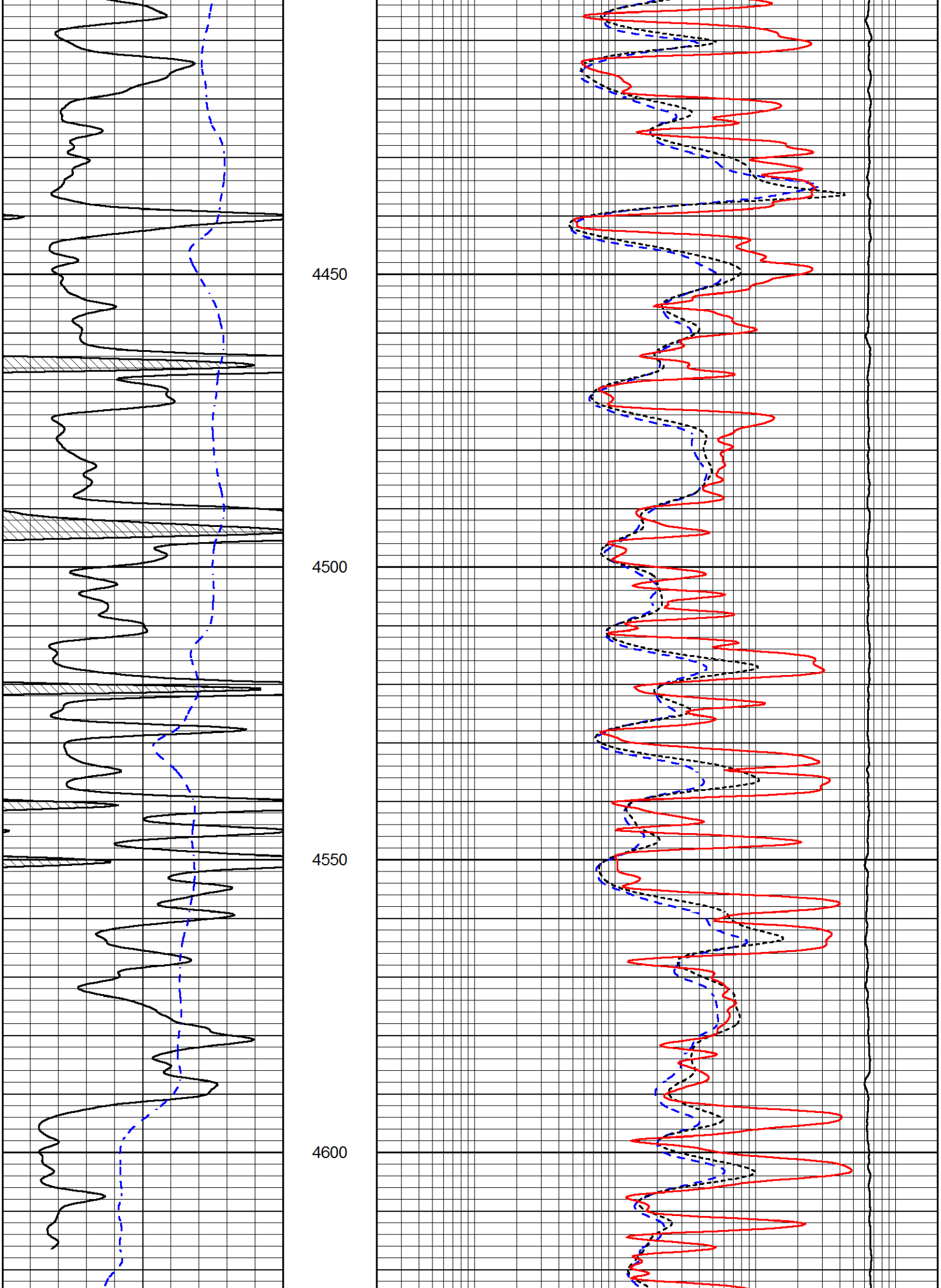


REPEAT SECTION

MIDWEST WIRELINE

Database File	talon_selfridge 2-11.db
Dataset Pathname	stack/pass3.1
Presentation Format	_dil
Dataset Creation	Thu Feb 04 07:33:04 2021
Charted by	Depth in Feet scaled 1:240

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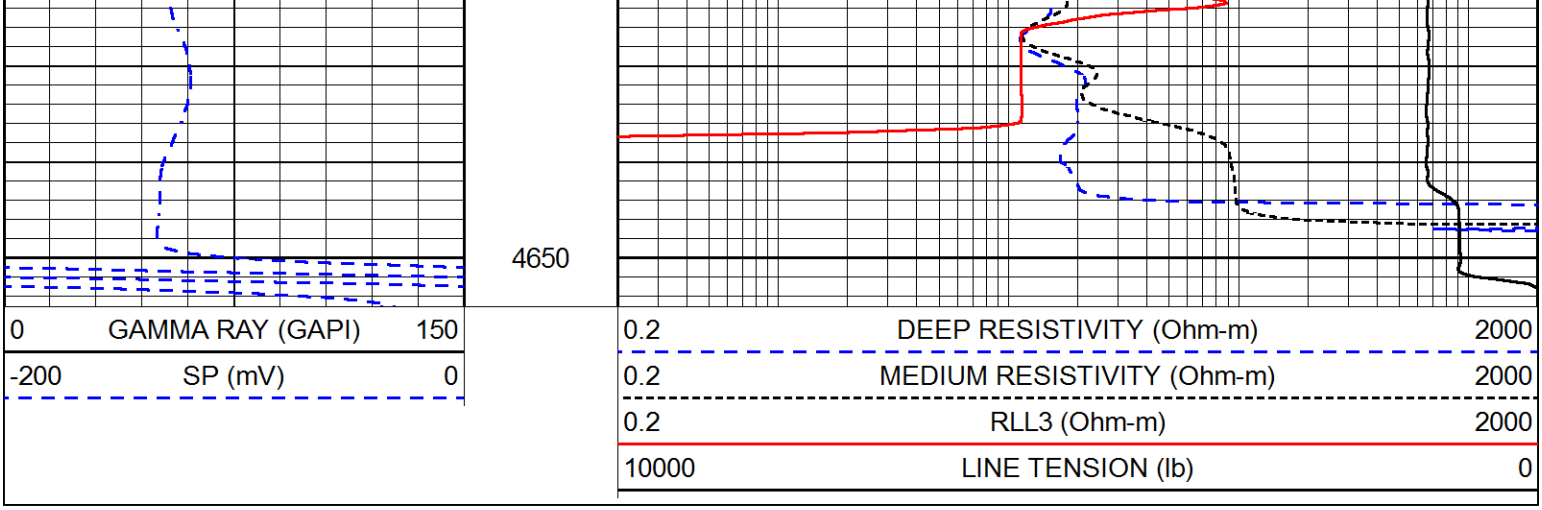

Calibration Report

Database File talon_selfridge 2-11.db
Dataset Pathname stack/pass4.1
Dataset Creation Thu Feb 04 07:41:13 2021

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
Calibration Performed: Thu Feb 04 06:43:01 2021

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.500	-39.000
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.335	-38.500

Compensated Density Calibration Report

Serial-Model: 817-947-M&W
Source / Verifier: 16955B / 2ci
Master Calibration Performed: Sun Sep 20 22:09:47 2020

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.670	g/cc	1141.85	3762.09	cps

Spine Angle = 74.89 Density/Spine Ratio = 0.526

	Size		Reading
Small Ring	4.50	in	1.02
Large Ring	14.50	in	1.23

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED FEB 13 10:30:30 2019

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:	233-M&W	
Tool Model:	M&W	
Calibration Performed:	Sun Sep 20 22:10:24 2020	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps