MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Molitor Oil, Inc.
Well Giefer #1
Field
County Kingman State Kansas
Location: API #: 15-095-22347-00-00
557 FNL & 1310 FEL
SEC 23 TWP 29S RGE 9W
Permanent Datum Ground Level Elevation 1690
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services: CNL/CDL, MEL
Elevation: K.B. 1703, D.F., G.L. 1690

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Date	6/9/2022		
Run Number	One		
Depth Driller	4666		
Depth Logger	4668		
Bottom Logged Interval	4667		
Top Log Interval	200		
Casing Driller	8.625 @ 200		
Casing Logger	197		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	8000		
Density / Viscosity	9.3 / 53		
pH / Fluid Loss	11.0 / 10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.30 @ 76		
Rmf @ Meas. Temp	0.23 @ 76		
Rmc @ Meas. Temp	0.41 @ 76		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.19 @ 123		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	123		
Equipment Number	P-108		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Max Lovely		

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Zenda,
5 North to 90 Rd, 1 East

Log Measured From: Kelly Bushing 13 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: Max Lovely
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 (103)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (303-03)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSI STKBL ML (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 (504 HT)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset:	molitor_giefer 1.db: field/well/stkml/pass4.11
Total length:	42.33 ft
Total weight:	685.00 lb
O.D.:	4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\molitor_giefer 1.db
Dataset field/well/stkml/pass4.11/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	123	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	620	70	Off	4668

Variable Description

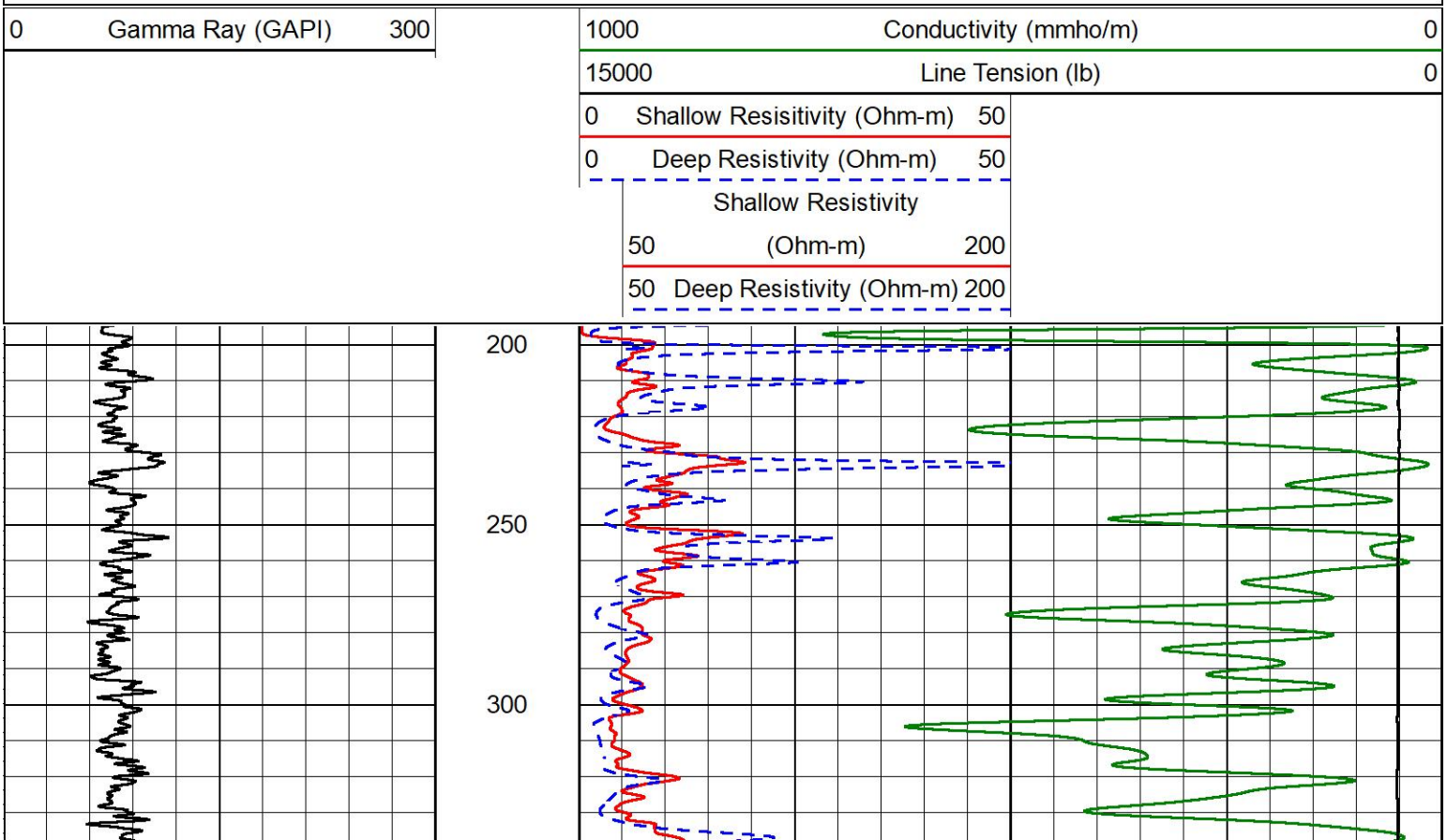
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM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

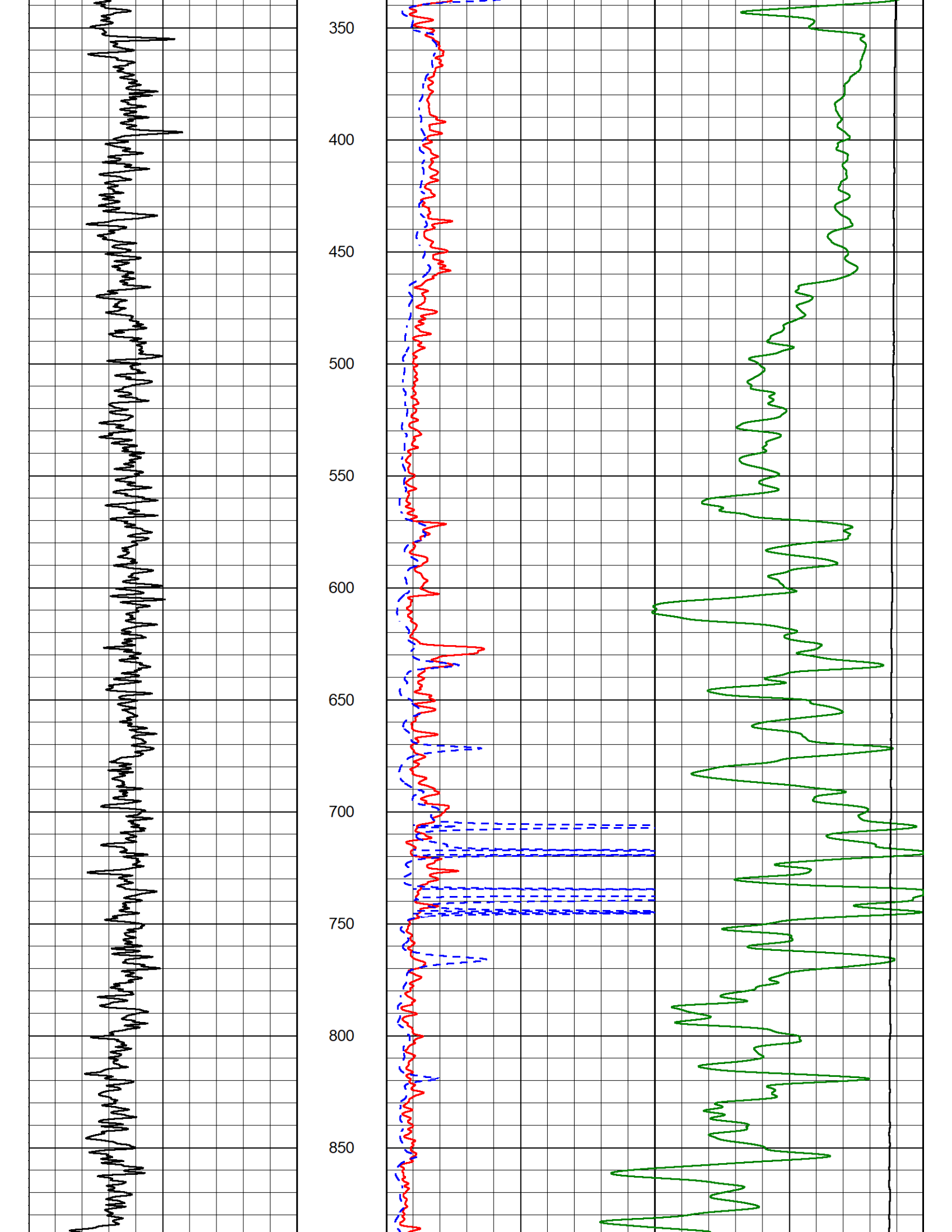
MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File	molitor_giefer 1.db
Dataset Pathname	stkml/pass4.3
Presentation Format	_dil2in
Dataset Creation	Thu Jun 09 21:27:27 2022
Charted by	Depth in Feet scaled 1:600

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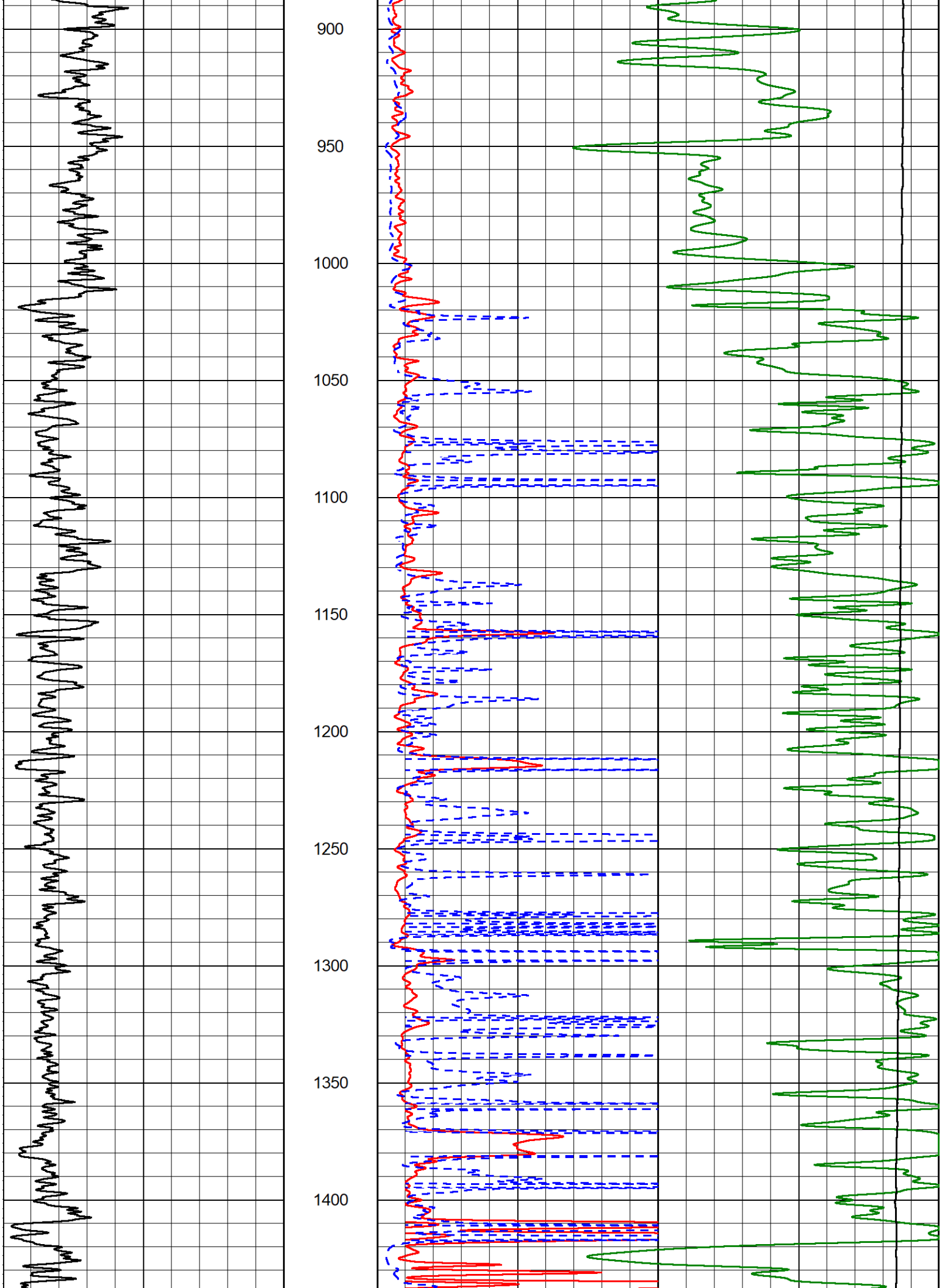
400
450
500
550
600
650
700
750
800
850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950
1000
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1100
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1200
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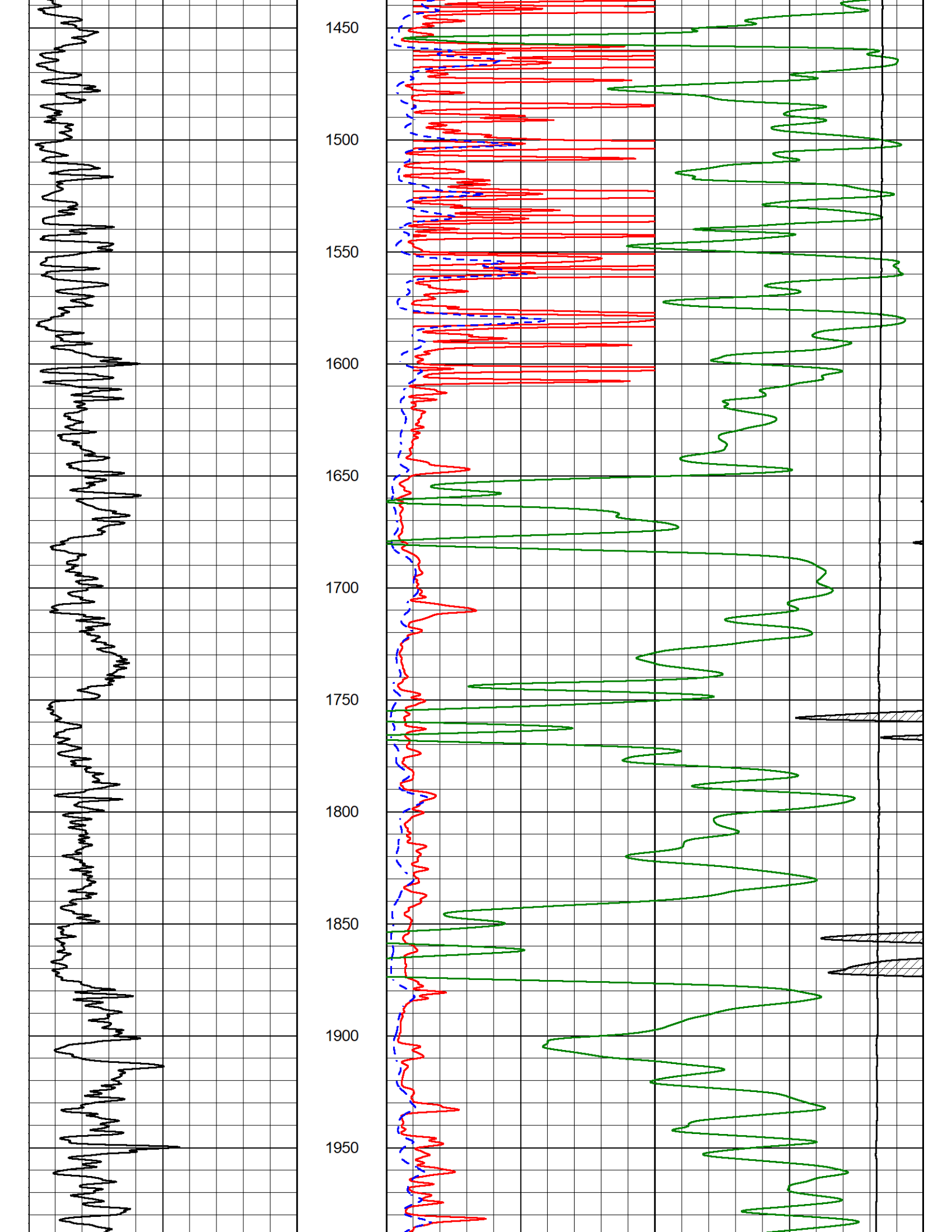
1300
1350
1400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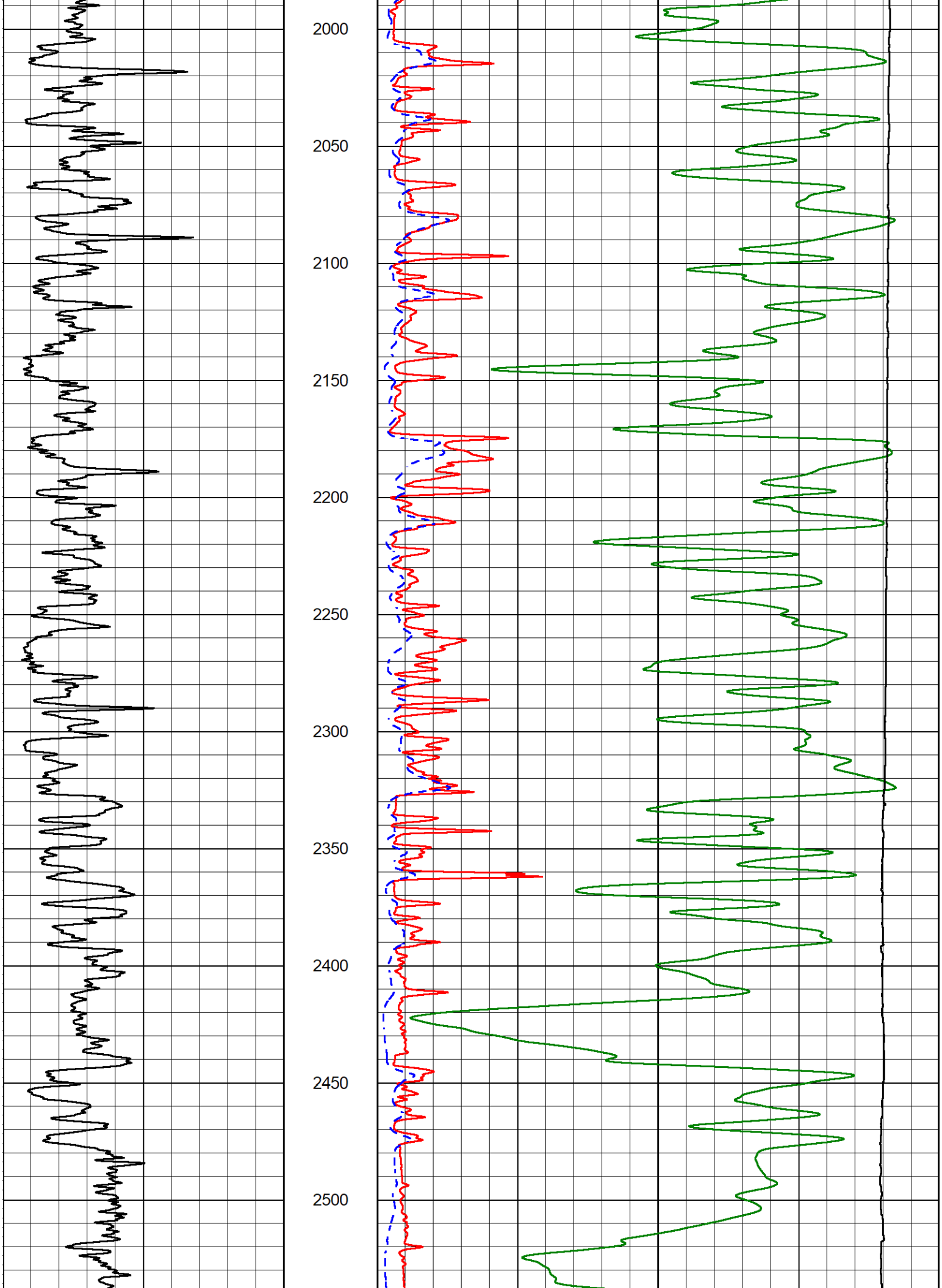
1700
1750
1800
1850
1900
1950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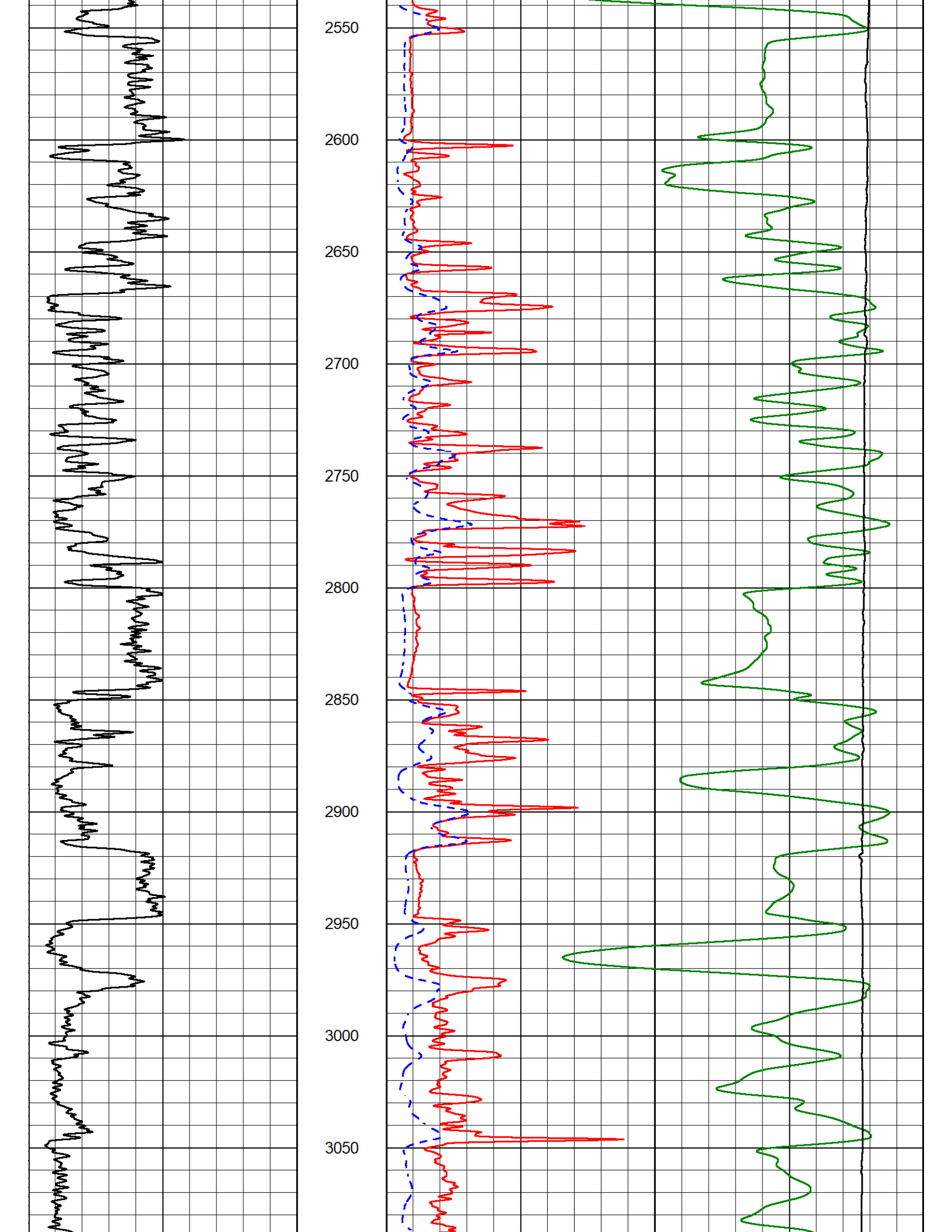
2050
2100
2150
2200
2250
2300
2350
2400
2450
2500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2600
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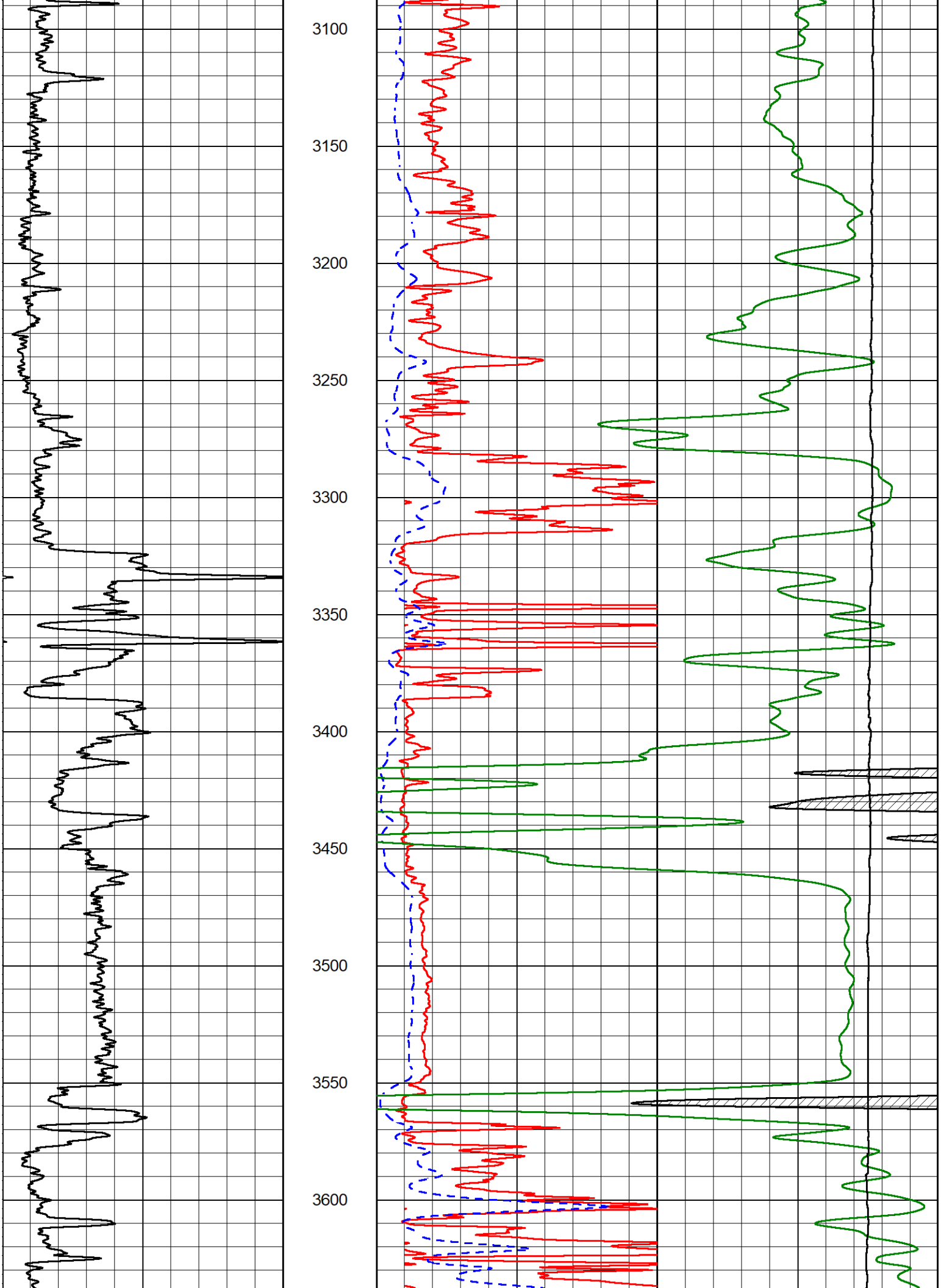
2700
2750
2800
2850
2900
2950
3000
3050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3200
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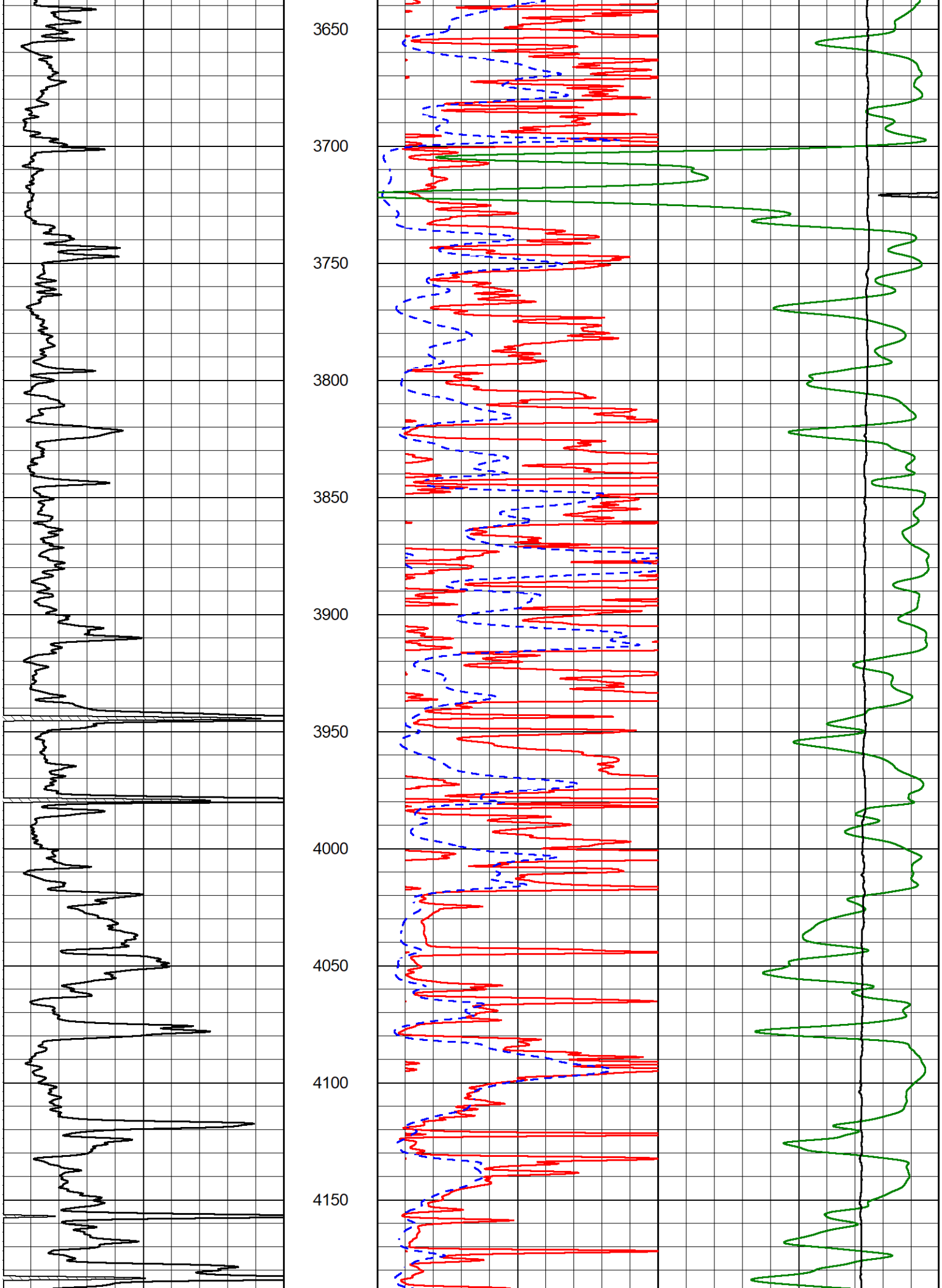
3300
3350
3400
3450
3500
3550
3600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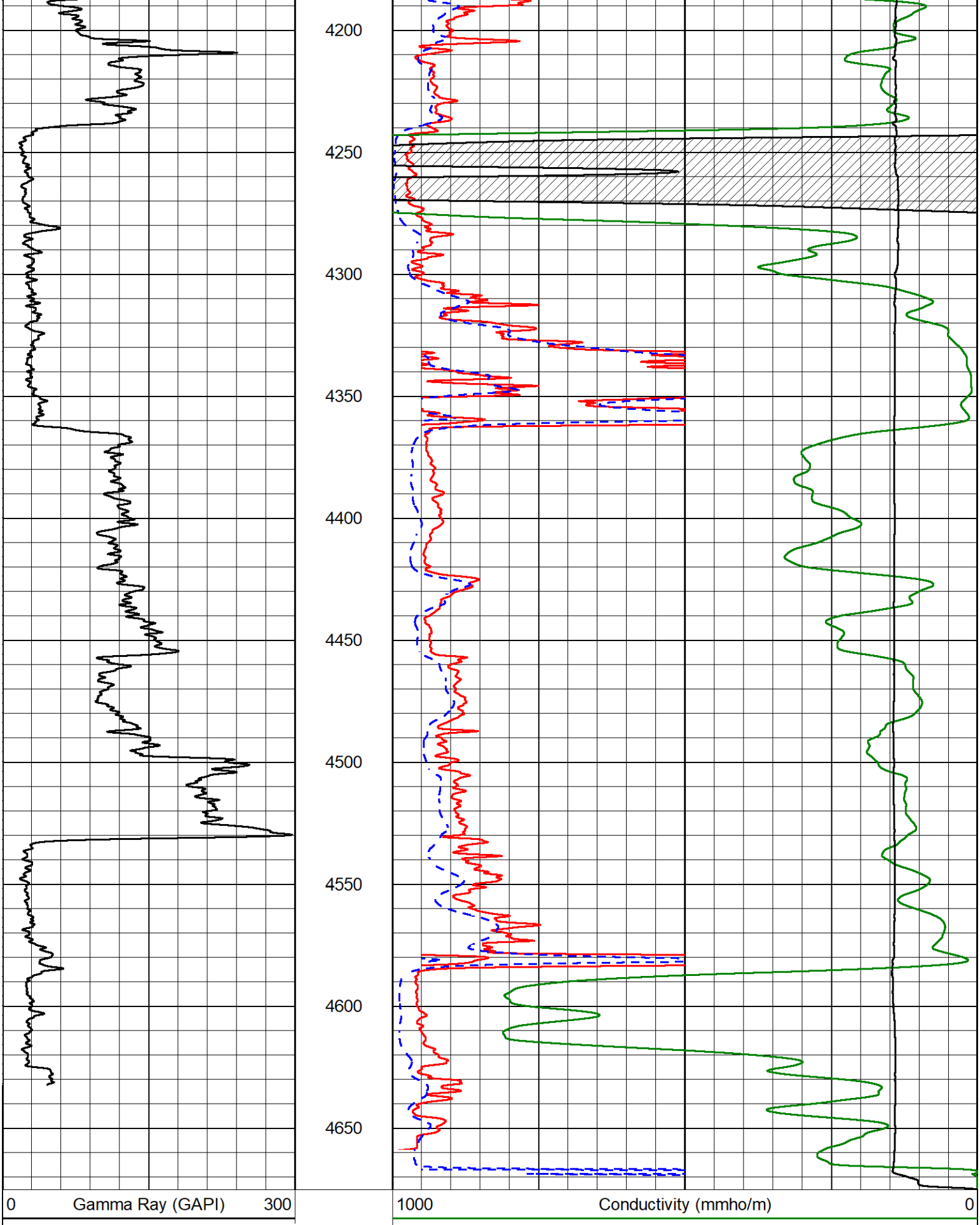
3700
3750
3800
3850
3900
3950
4000
4050
4100
4150


4200
4250
4300
4350
4400
4450
4500
4550
4600
4650
0
Gamma Ray (GAPI)
300
1000
Conductivity (mmho/m)
0
15000
Line Tension (lb)
0
0
Shallow Resisitivity (Ohm-m)
50
0
Deep Resistivity (Ohm-m)
50
Shallow Resistivity

50	(Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200

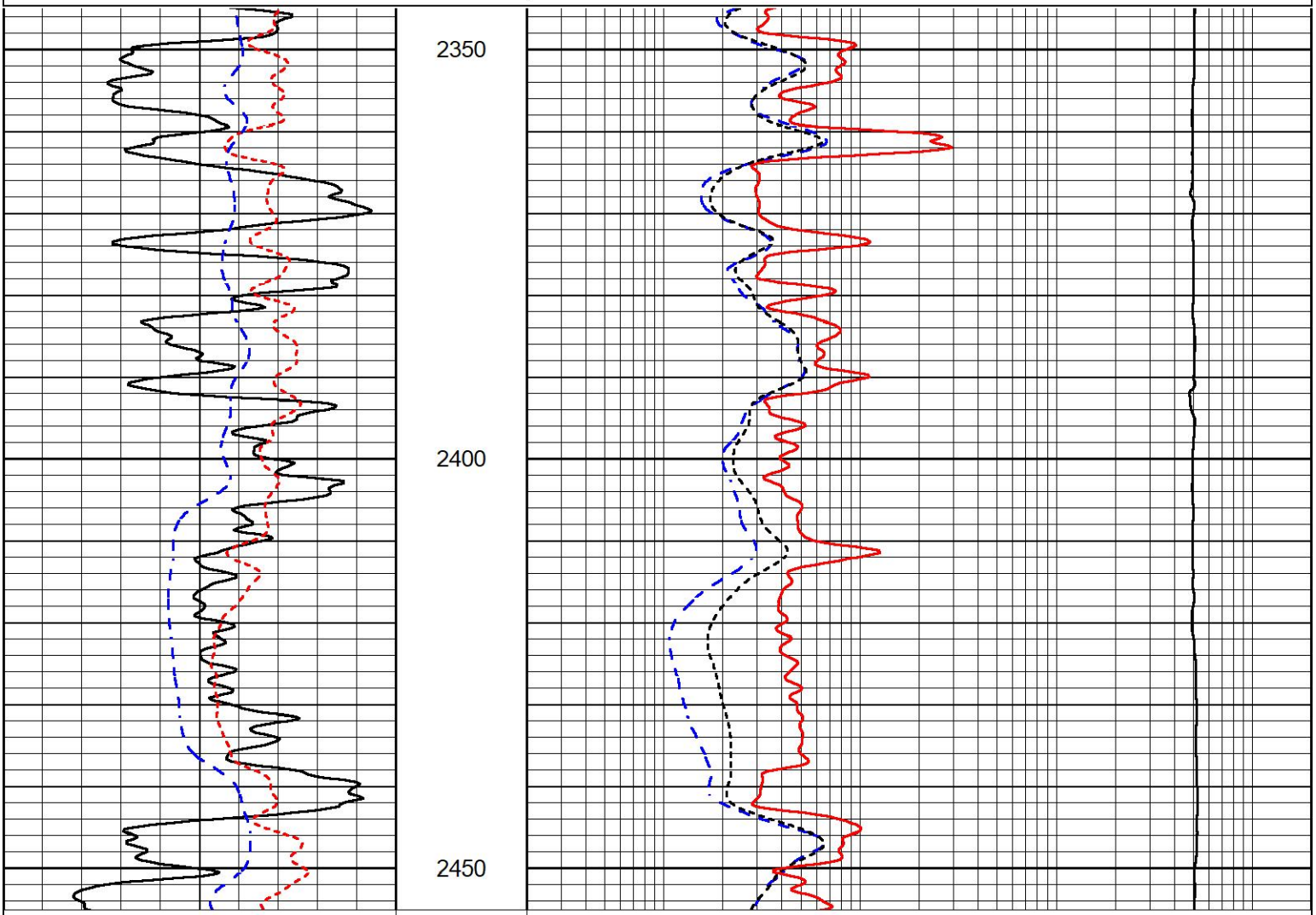
INDIAN CAVE

MAIN PASS

Database File	molitor_giefer 1.db
Dataset Pathname	stkml/pass4.4
Presentation Format	_dil
Dataset Creation	Thu Jun 09 21:27:40 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



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

DETAIL SECTION

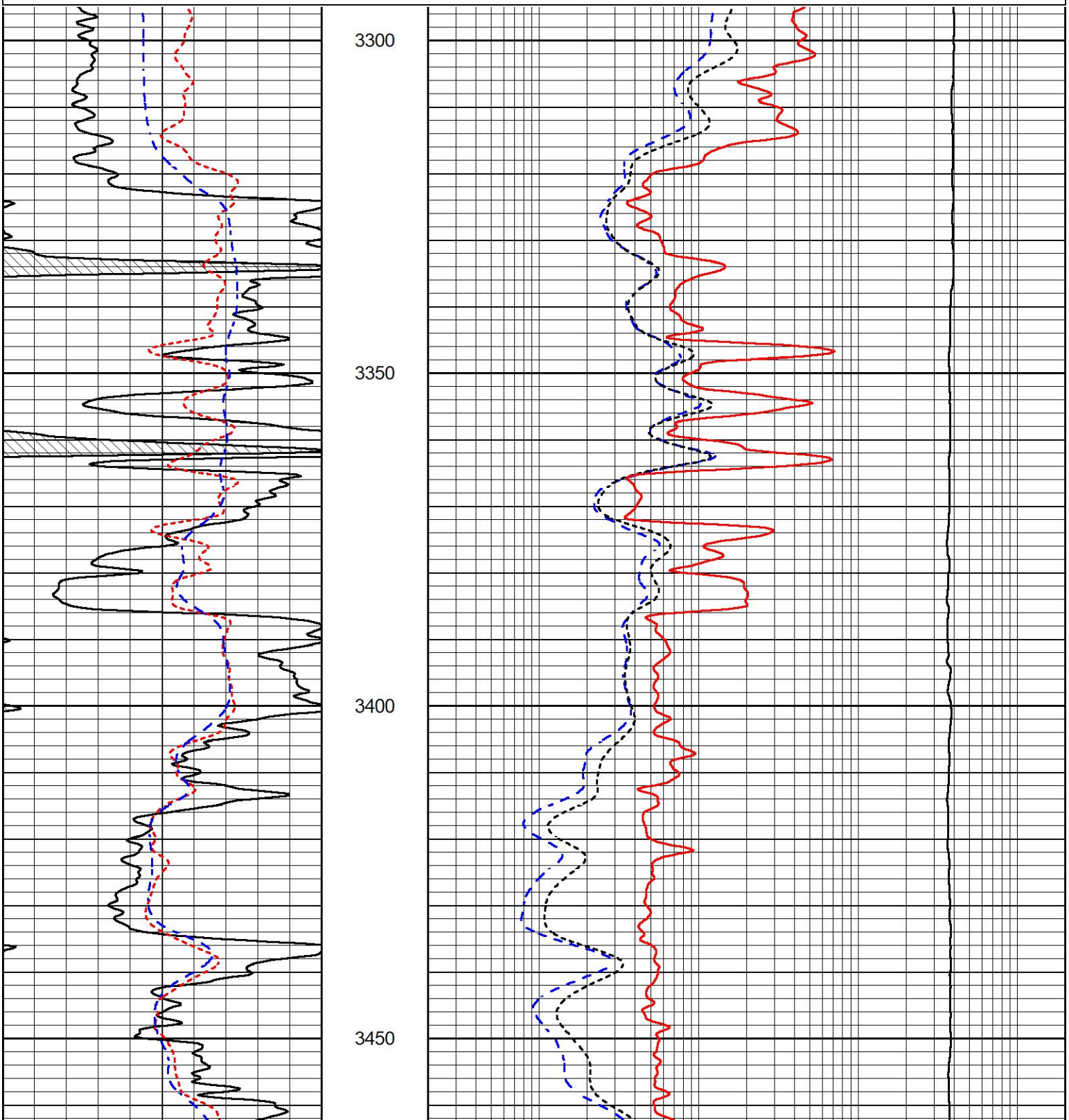
MIDWEST WIRELINE

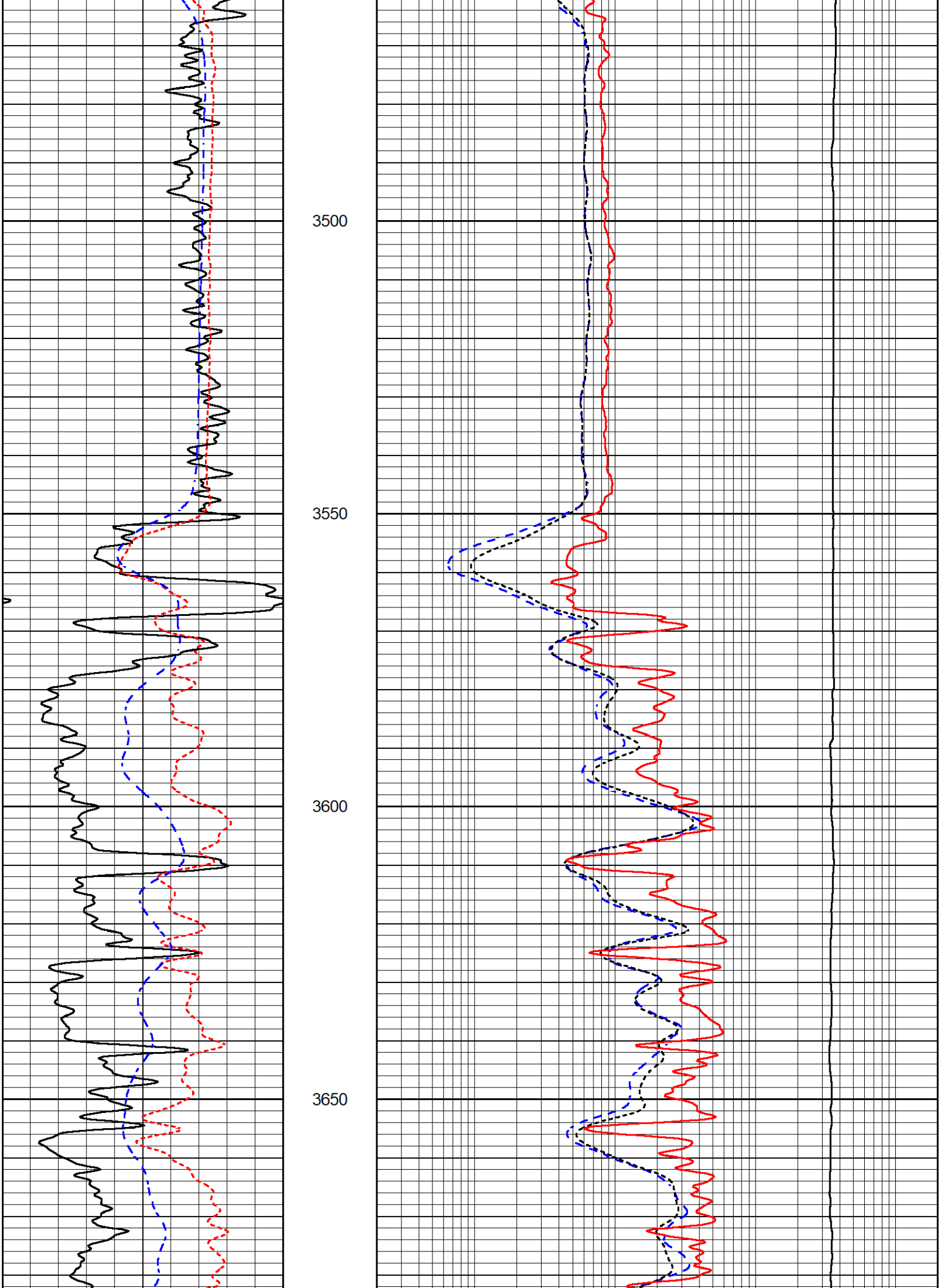
MAIN PASS

Database File	molitor_giefer 1.db
Dataset Pathname	stkml/pass4.1
Presentation Format	_dil
Dataset Creation	Thu Jun 09 21:27:04 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

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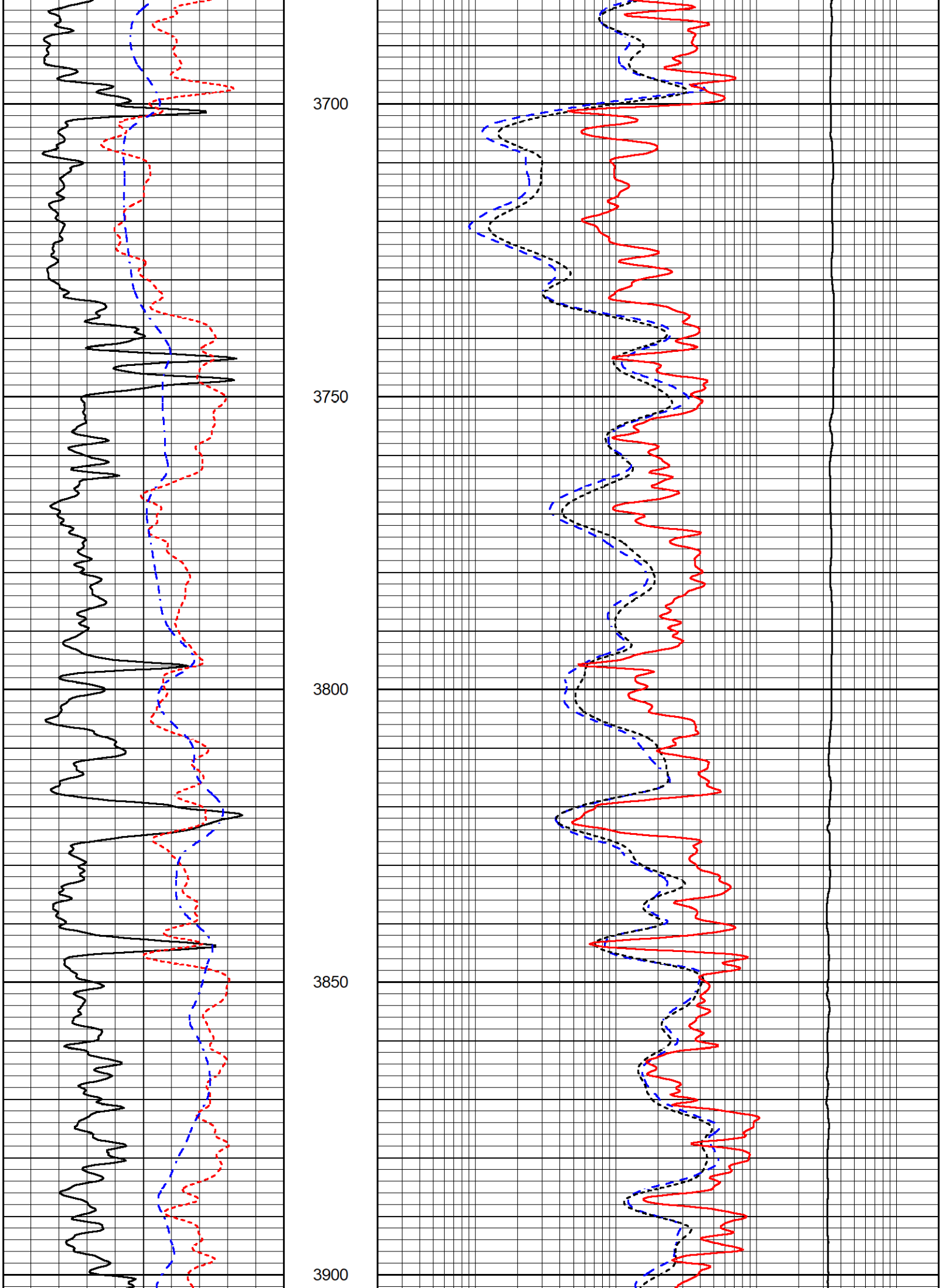
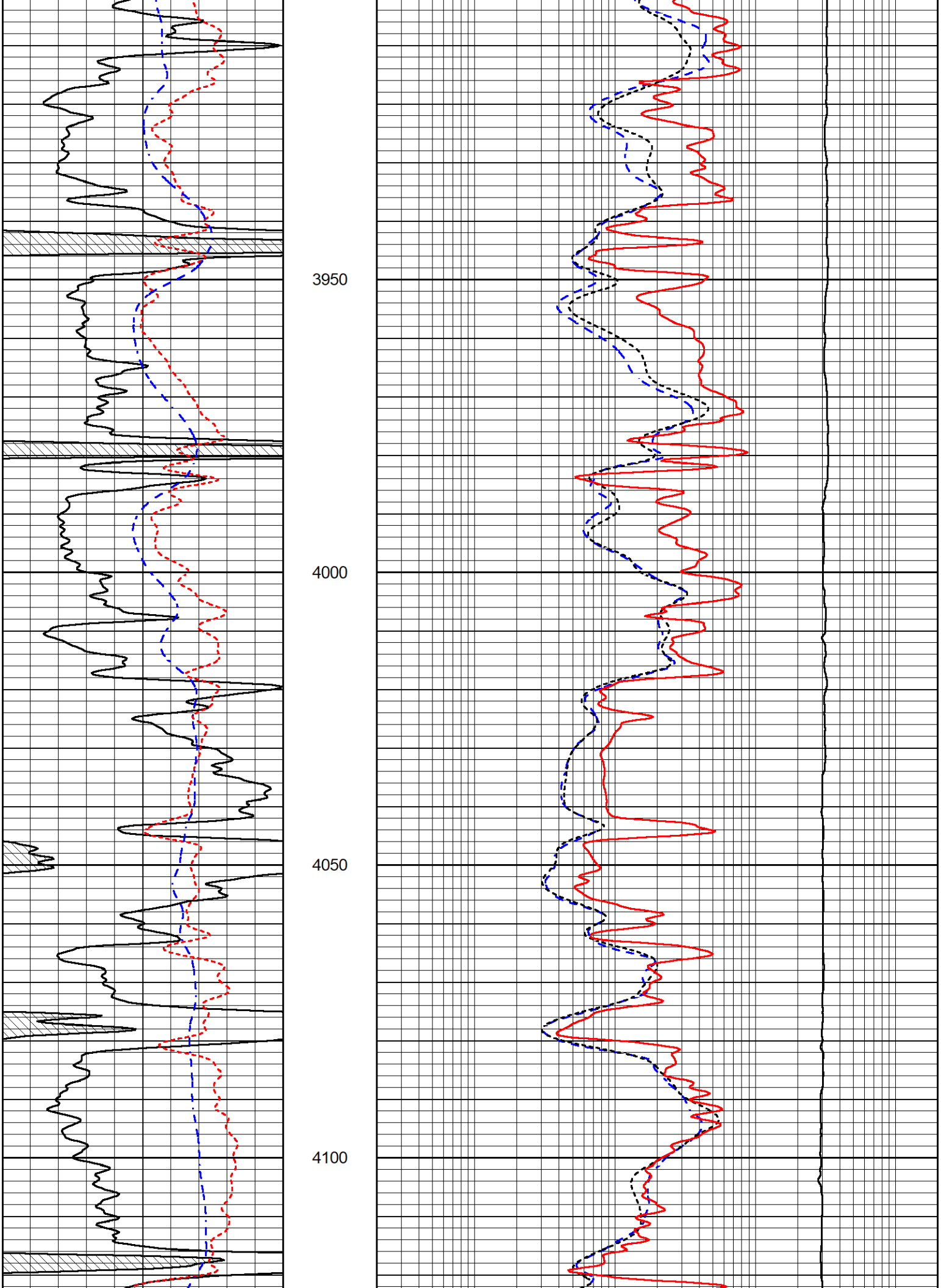
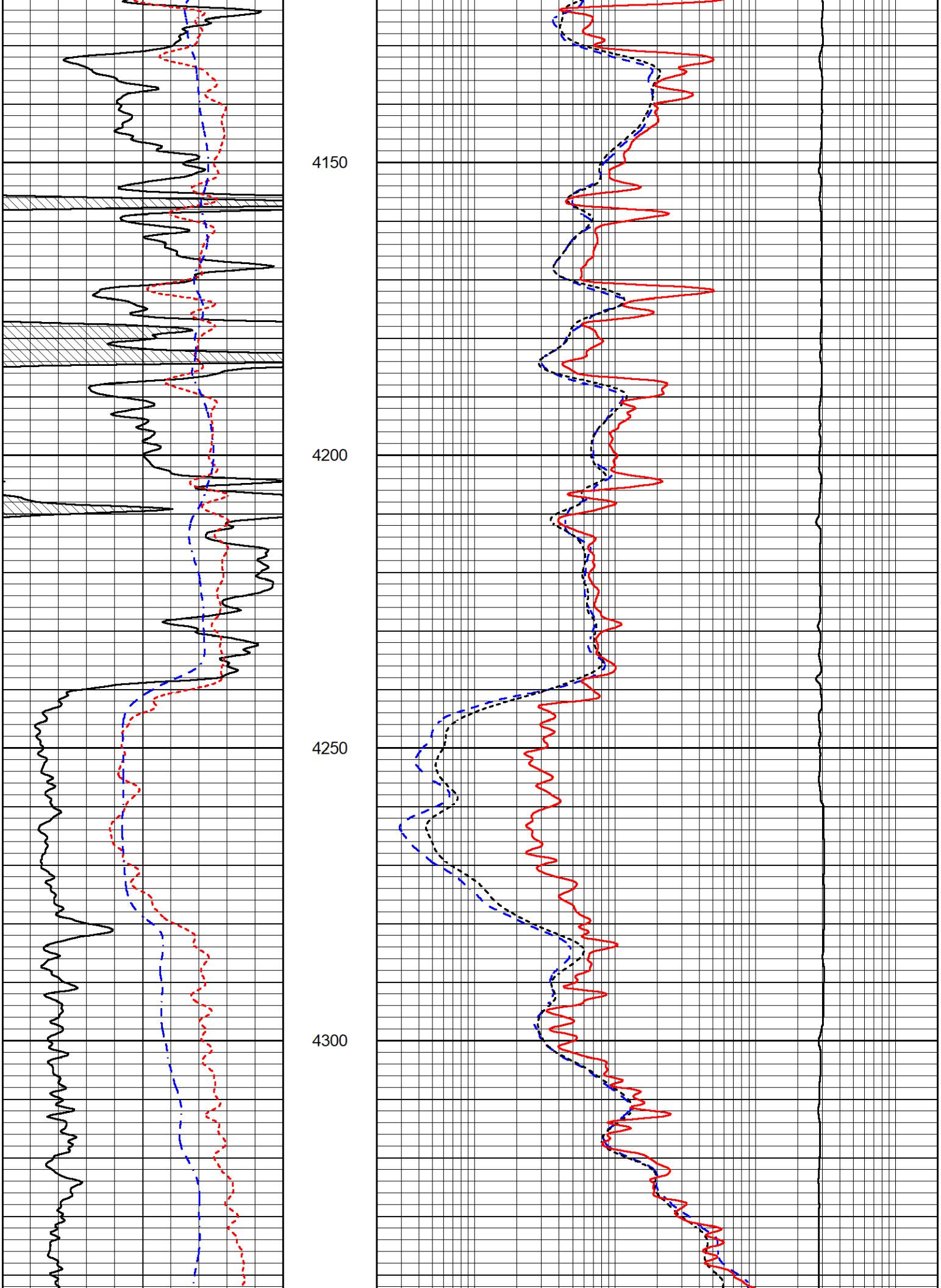
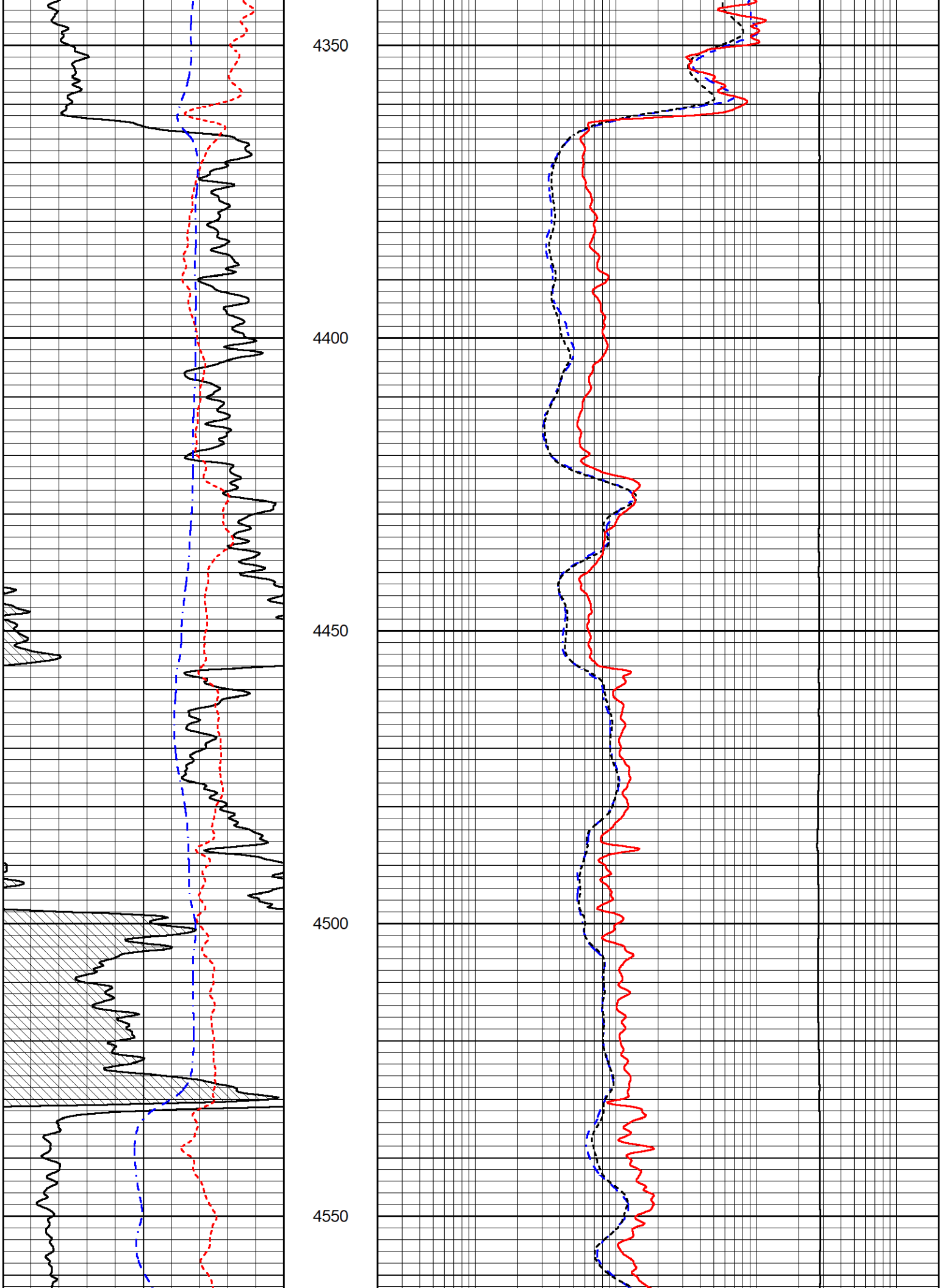
3550
3600
3650


3700
3750
3800
3850
3900


3950
4000
4050
4100


4150
4200
4250
4300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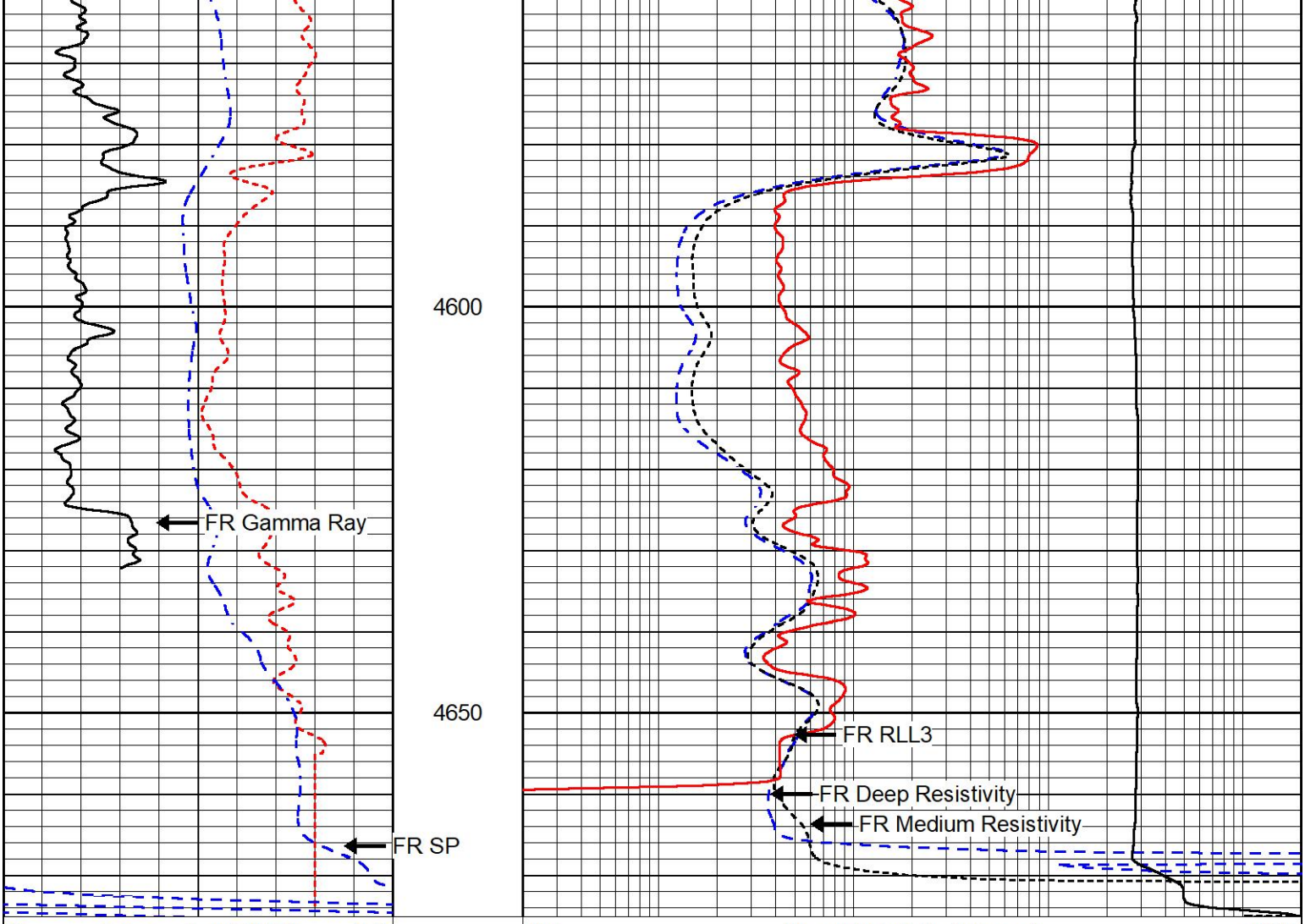
4400
4450
4500
4550



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

MIDWEST WIRELINE

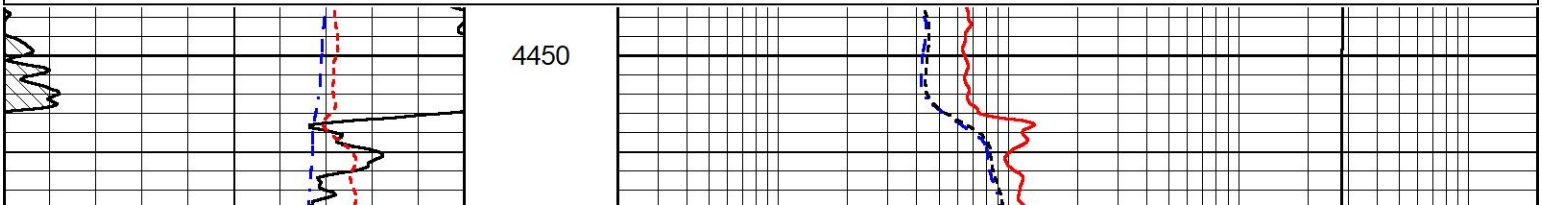
REPEAT SECTION

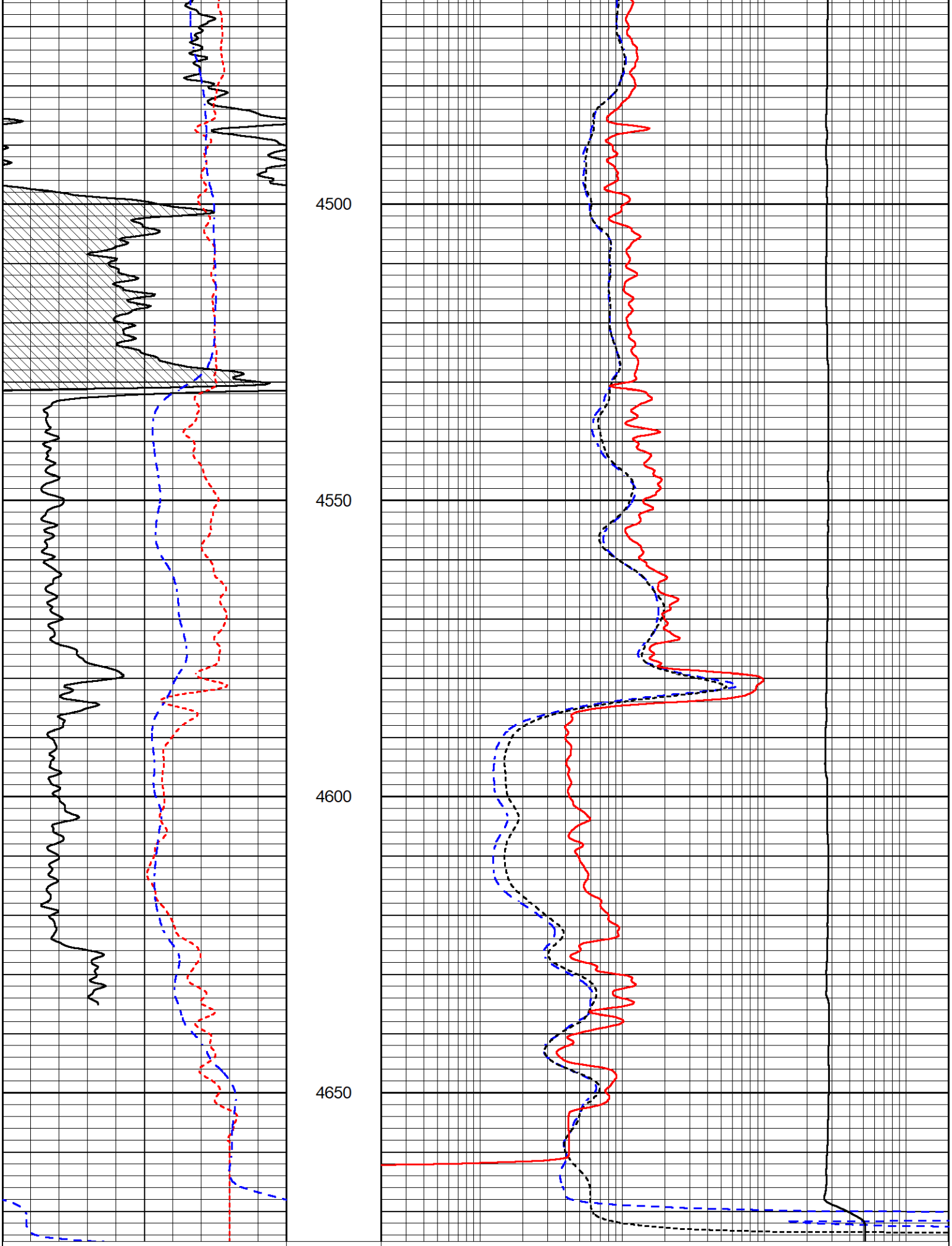
REPEAT PASS

Database File	molitor_giefer 1.db
Dataset Pathname	stkml/pass3.1
Presentation Format	_dil
Dataset Creation	Thu Jun 09 20:45:19 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




4500
4550
4600
4650
0
Gamma Ray (GAPI)
150
-160
RXORT
40
0.2
Deep Resistivity (Ohm-m)
2000
0.2
Medium Resistivity (Ohm-m)
2000

-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0

Calibration Report

Database File molitor_giefer 1.db
Dataset Pathname stkml/pass4.11
Dataset Creation Thu Jun 09 20:41:16 2022

Dual Induction Calibration Report

Serial-Model: 504 HT-M&W
Surface Cal Performed: Thu Dec 16 22:32:49 2021

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-16.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 401-PSI STKBL ML
Performed: Fri Jun 3 18:46:15 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	19000.0000	-0.8000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	17500.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.4000

Compensated Density Calibration Report

Serial-Model: 303-03-M&W
Source #: 21170B
Master Calibration Performed: Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps

Spine Angle = 73.06 Density/Spine Ratio = 0.515

	Size		Reading
Small Ring	4.00	in	1.17
Large Ring	14.00	in	1.03

Compensated Neutron Calibration Report

Serial-Model: 210-M&W
Source #: N-1238
Master Calibration Performed: Fri Dec 3 09:16:24 2021

Master 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

Gamma Ray Calibration Report

Serial Number:	103	
Tool Model:	M&W	
Performed:	Fri Dec 3 12:13:24 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps

MIDWEST WIRELINE

Company	Molitor Oil, Inc.
Well	Giefer #1
Field	
County	Kingman
State	Kansas