



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Ritchie Exploration, Inc.		Company Ritchie Exploration, Inc.	
Well	Fischer 10A #1	Well	Fischer 10A #1
Field	Unnamed	Field	Unnamed
County	Ford	County	Ford
State	Kansas	State	Kansas
Location: API #: 15-057-21064-00-00		Other Services	
1934 FNL & 1777 FEL		CNL/CDL MEL/BHCS	
Permanent Datum	Ground Level	Elevation	2498
Log Measured From	Kelly Bushing	K.B.	2510
Drilling Measured From	Kelly Bushing	D.F.	2498
		G.L.	2498
SEC 10 TWP 26S RGE 24W			
Date	3/8/2022		
Run Number	One		
Depth Driller	5042		
Depth Logger	5043		
Bottom Logged Interval	5042		
Top Log Interval	300		
Casing Driller	8.625 @ 313		
Casing Logger	306		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4200		
Density / Viscosity	9.3 50		
pH / Fluid Loss	11.0 6.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.5 @ 75		
Rmt @ Meas. Temp	.38 @ 75		
Rmc @ Meas. Temp	.68 @ 75		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.30 @ 126		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	126		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	John Goldsmith		

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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.

Jetmore Kansas

South to Horseshoe Rd, 1 West, 1/2 South,
West Into

Log Measured From: Kelly Bushing

12 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: John Goldsmith
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 460	degF 50	Off	ft 5043

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 CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM

4.50

SP

0.20

Dataset: ritchie_fischer_10a_1.db: field/well/stackml/pass4.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in



MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File ritchie_fischer_10a_1.db
Dataset Pathname stackml/pass6.1
Presentation Format _dil2in
Dataset Creation Wed Mar 09 00:06:49 2022
Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

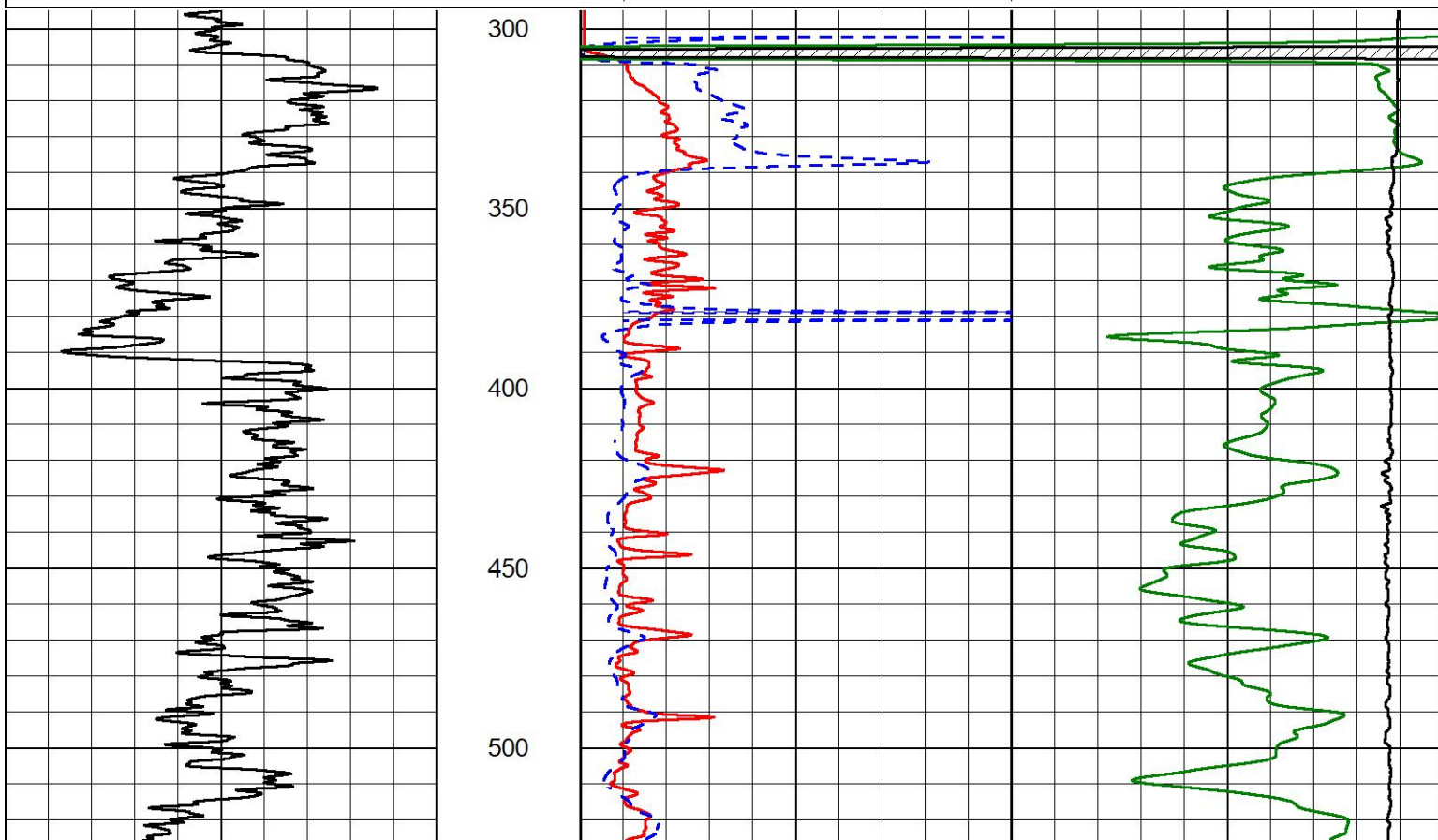
0 Shallow Resistivity (Ohm-m) 50

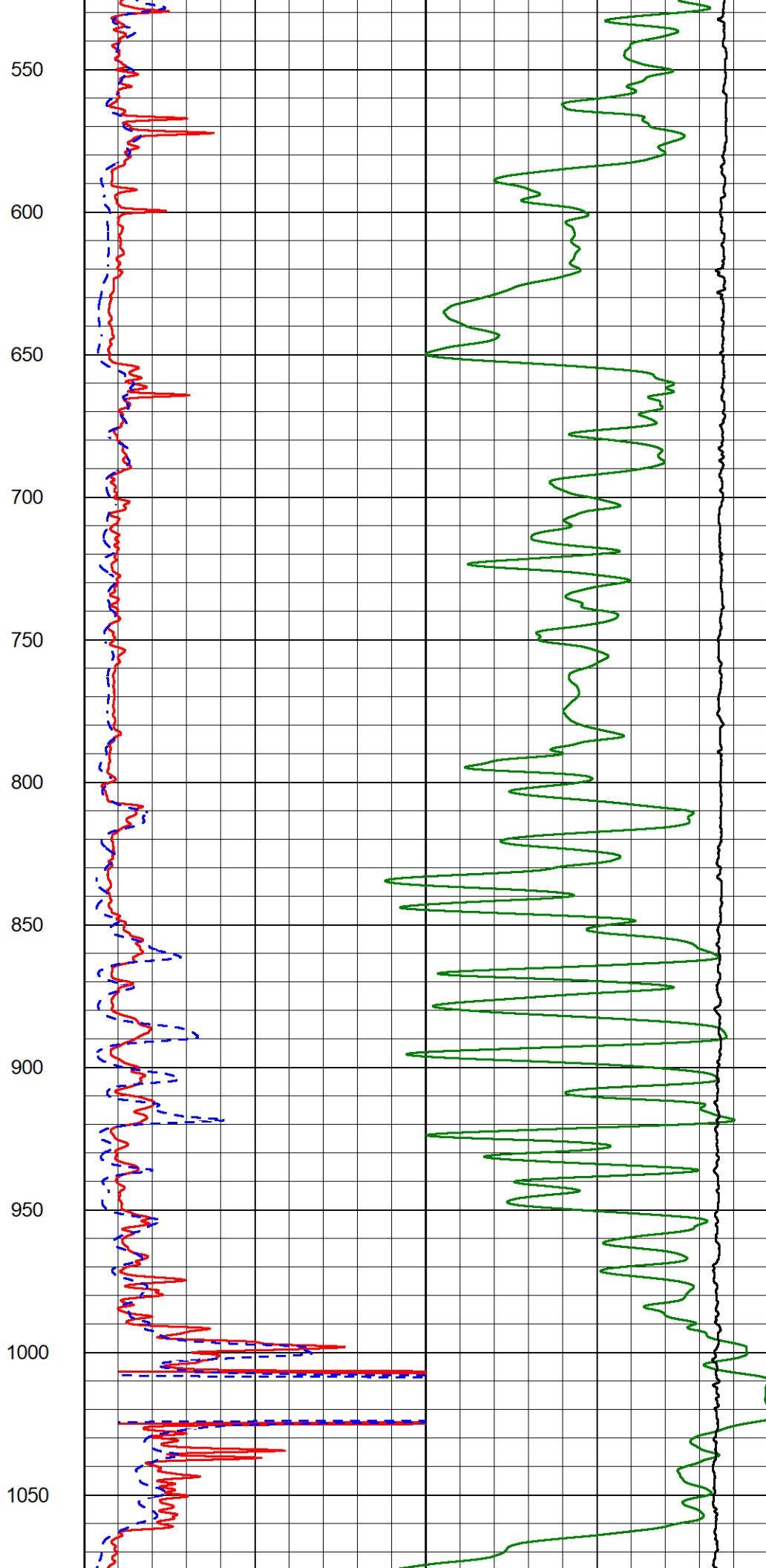
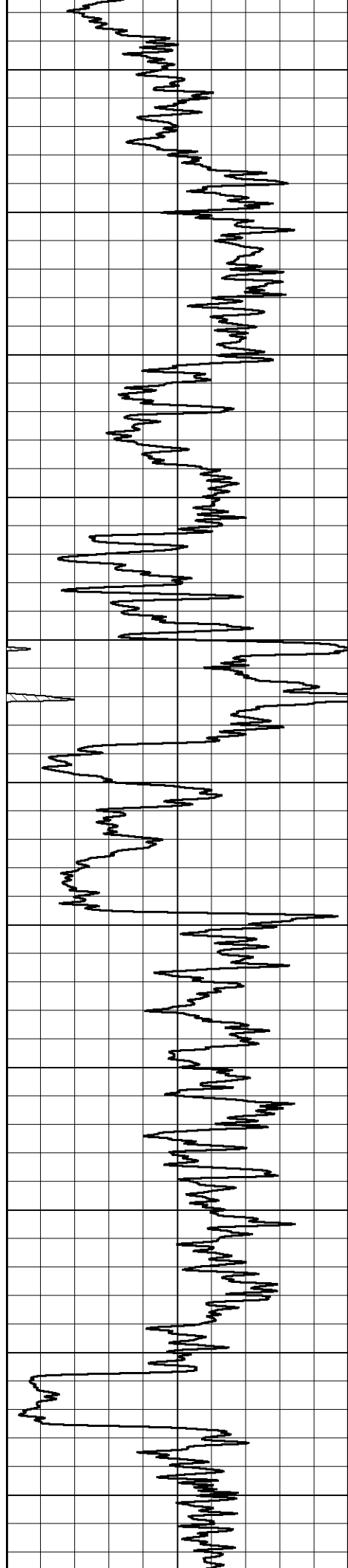
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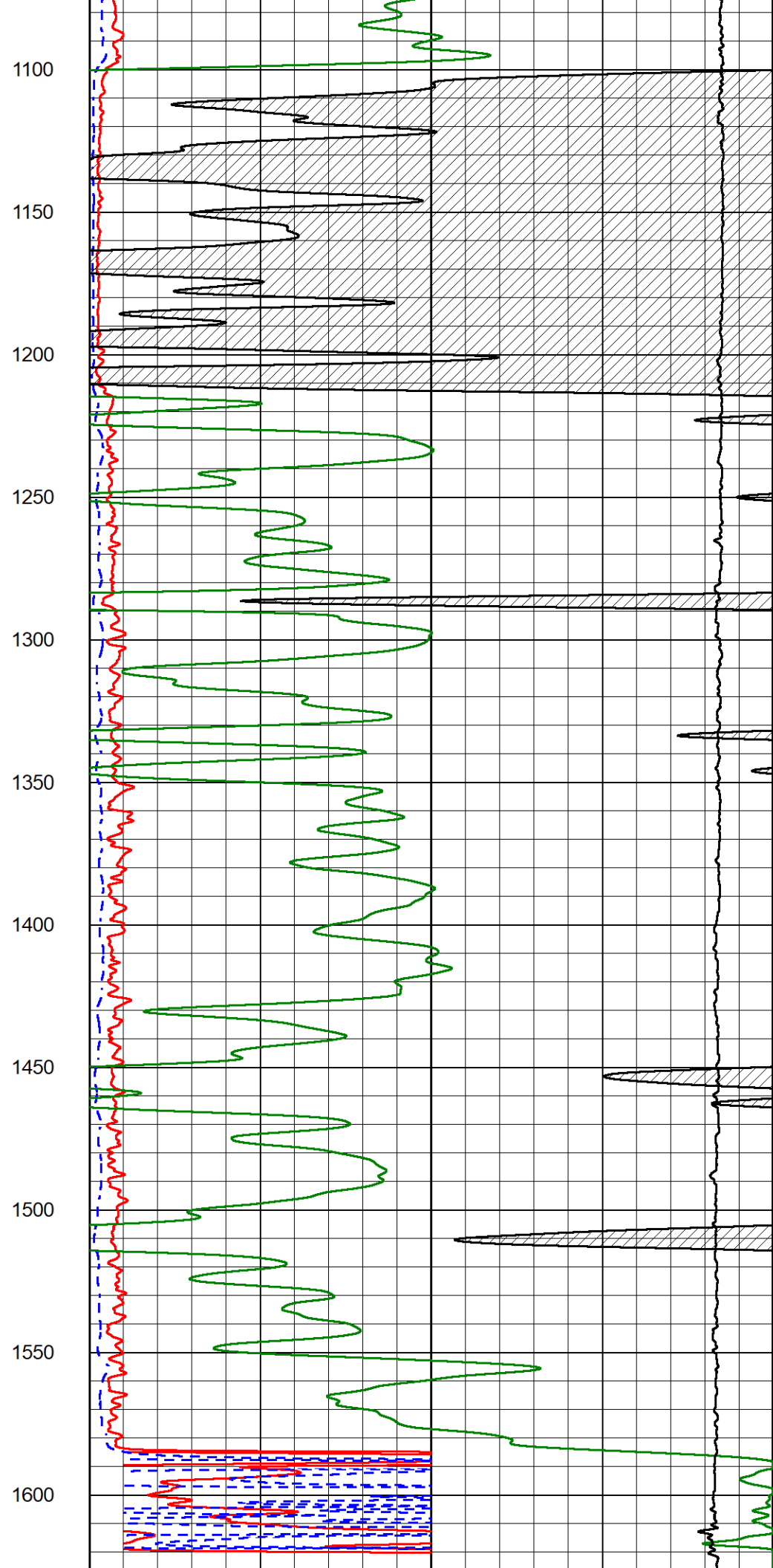
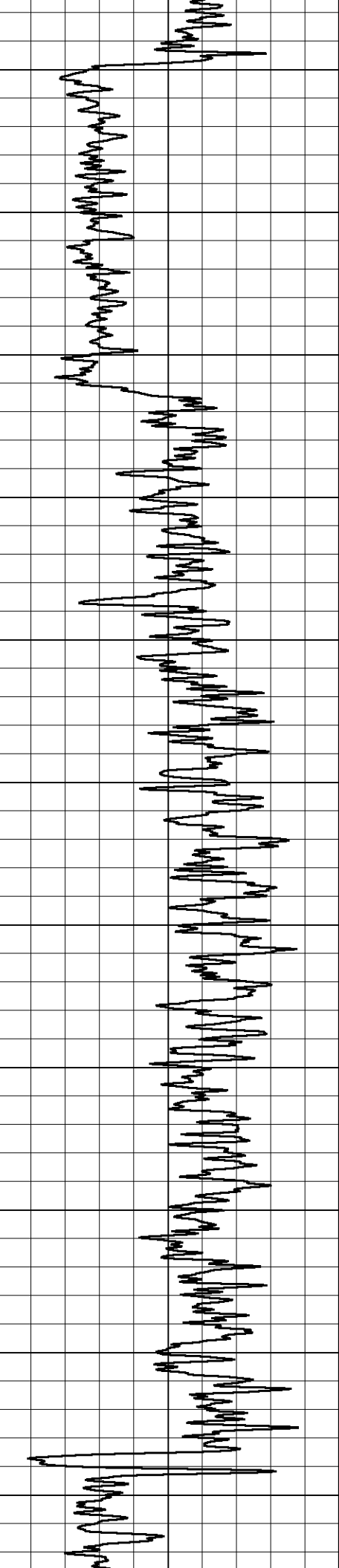
Shallow Resistivity

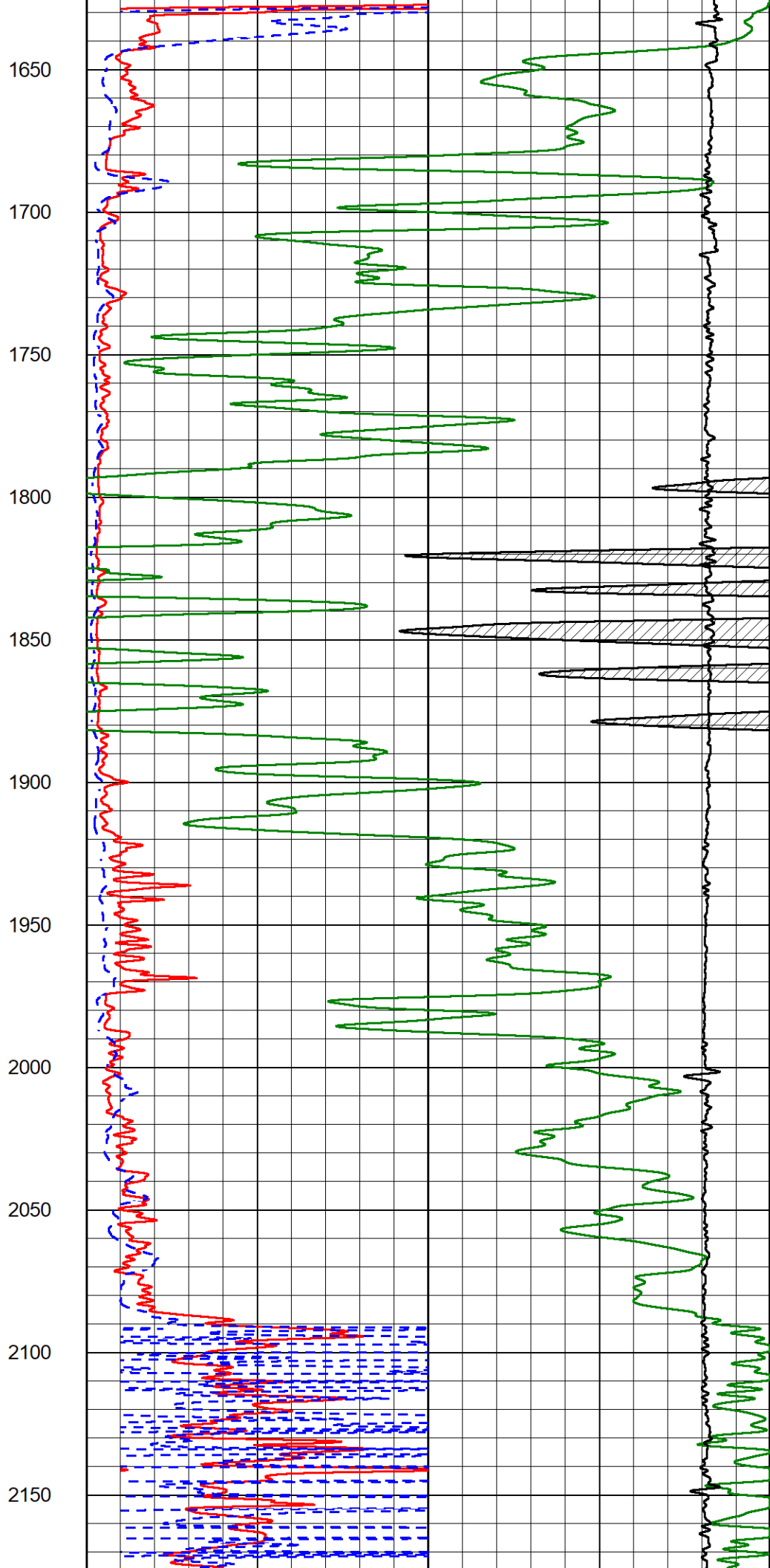
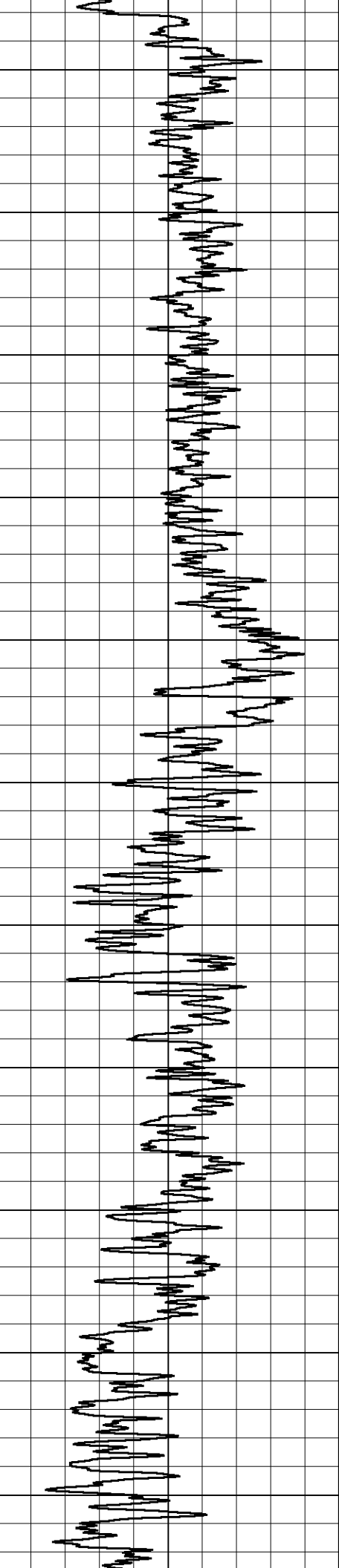
50 (Ohm-m) 200

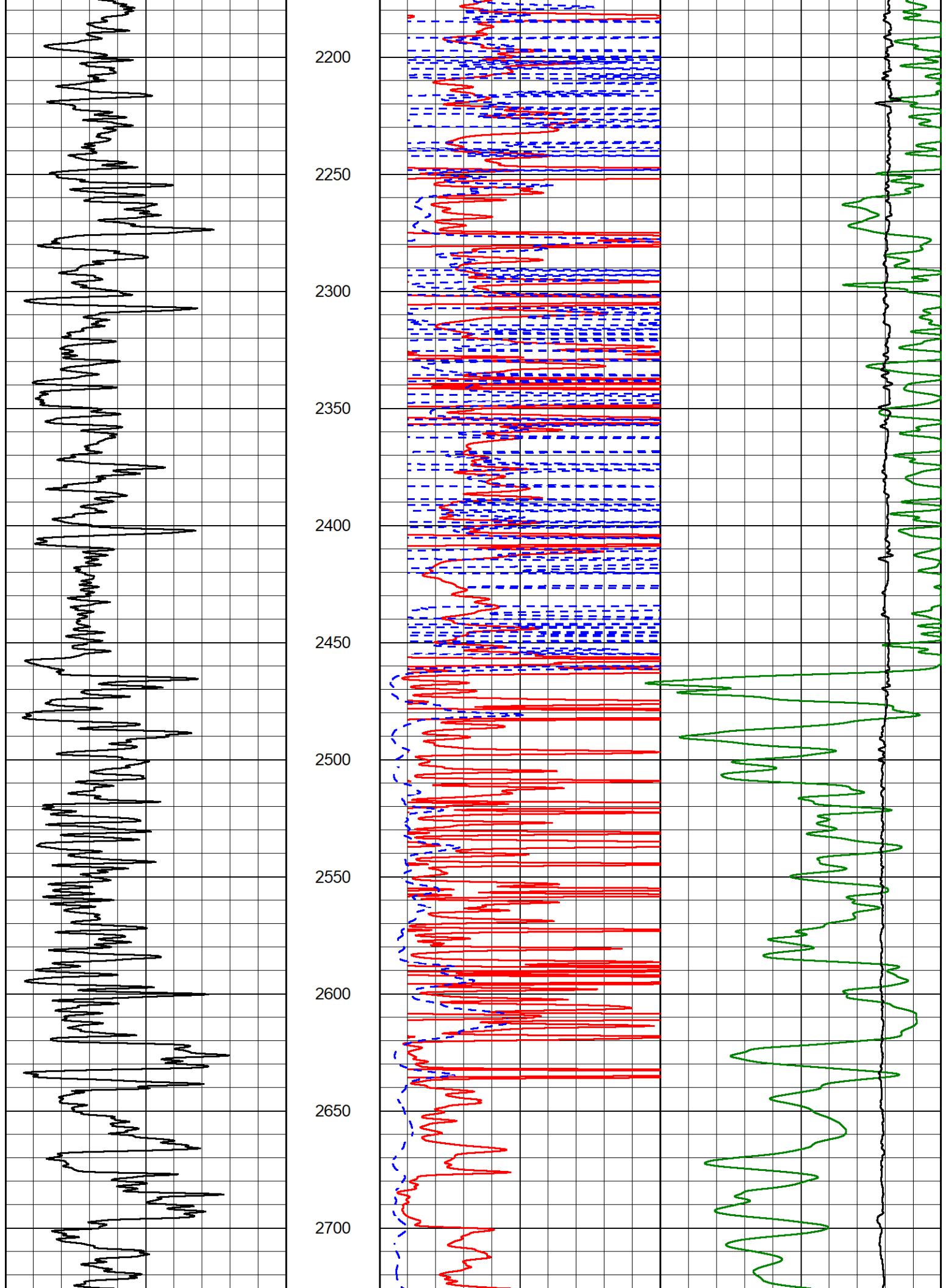
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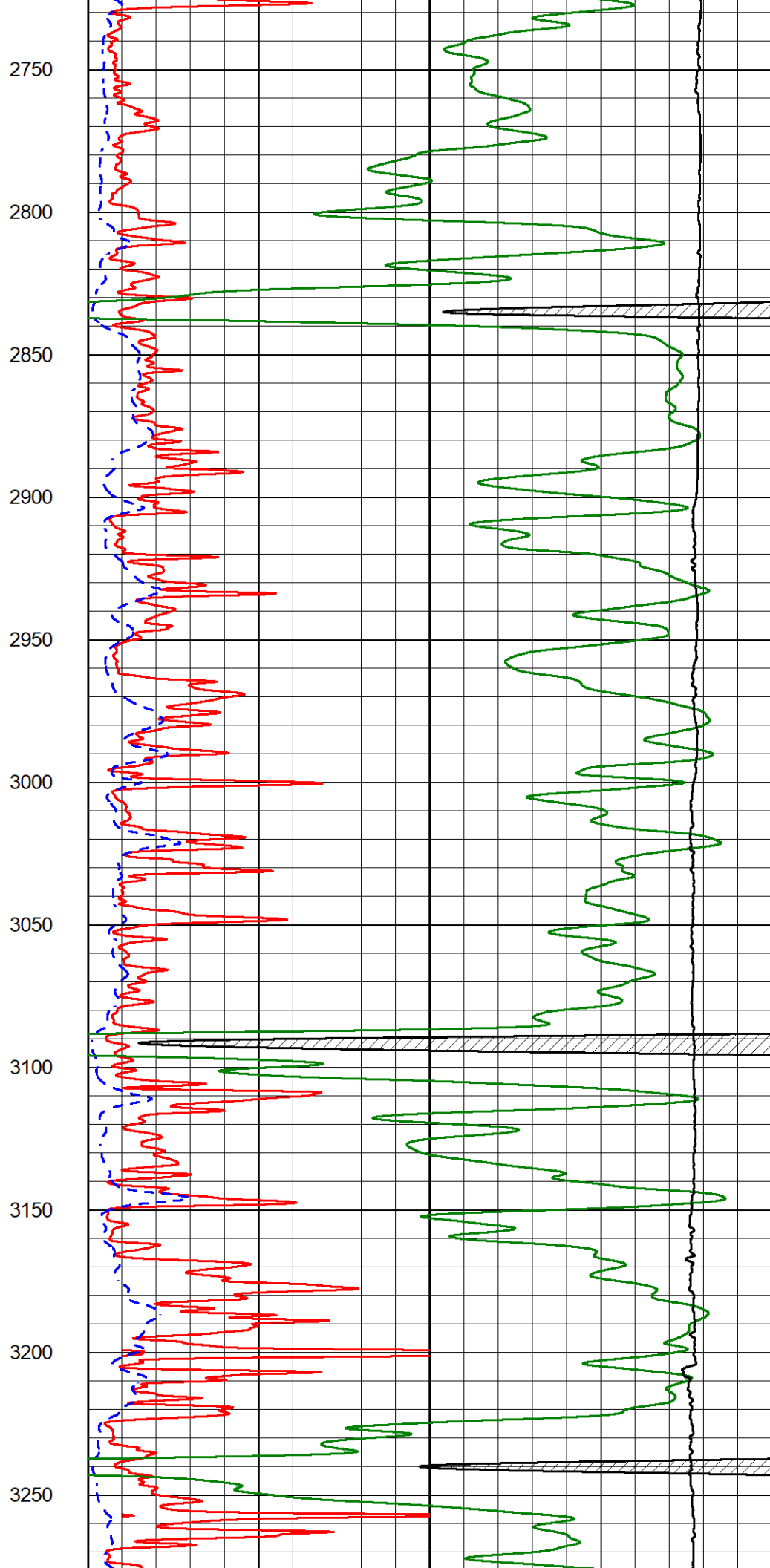
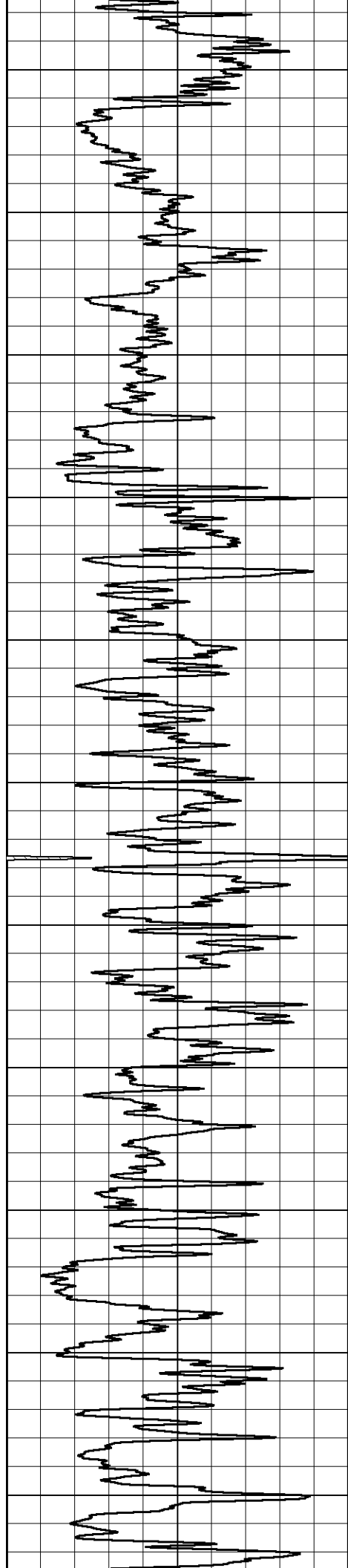


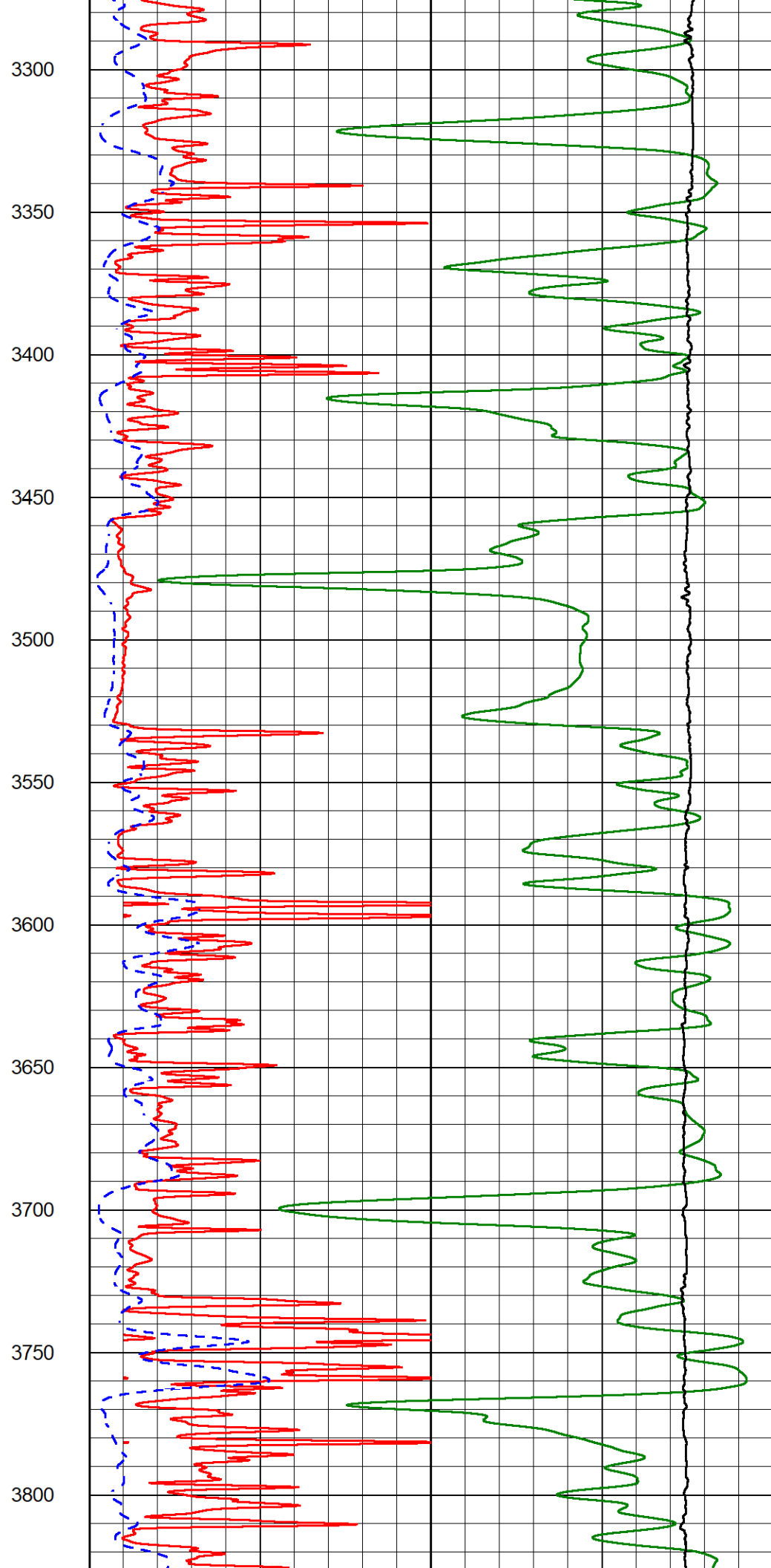
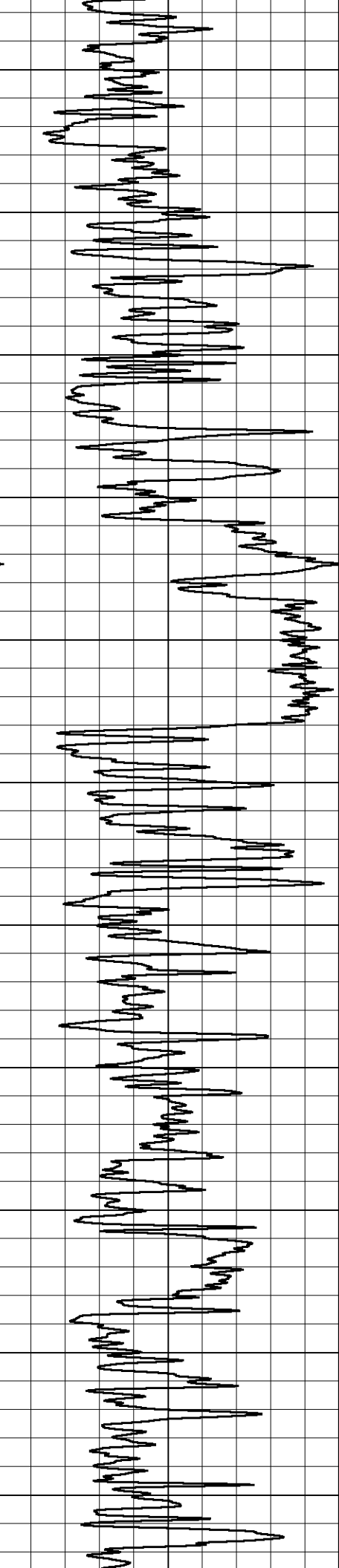


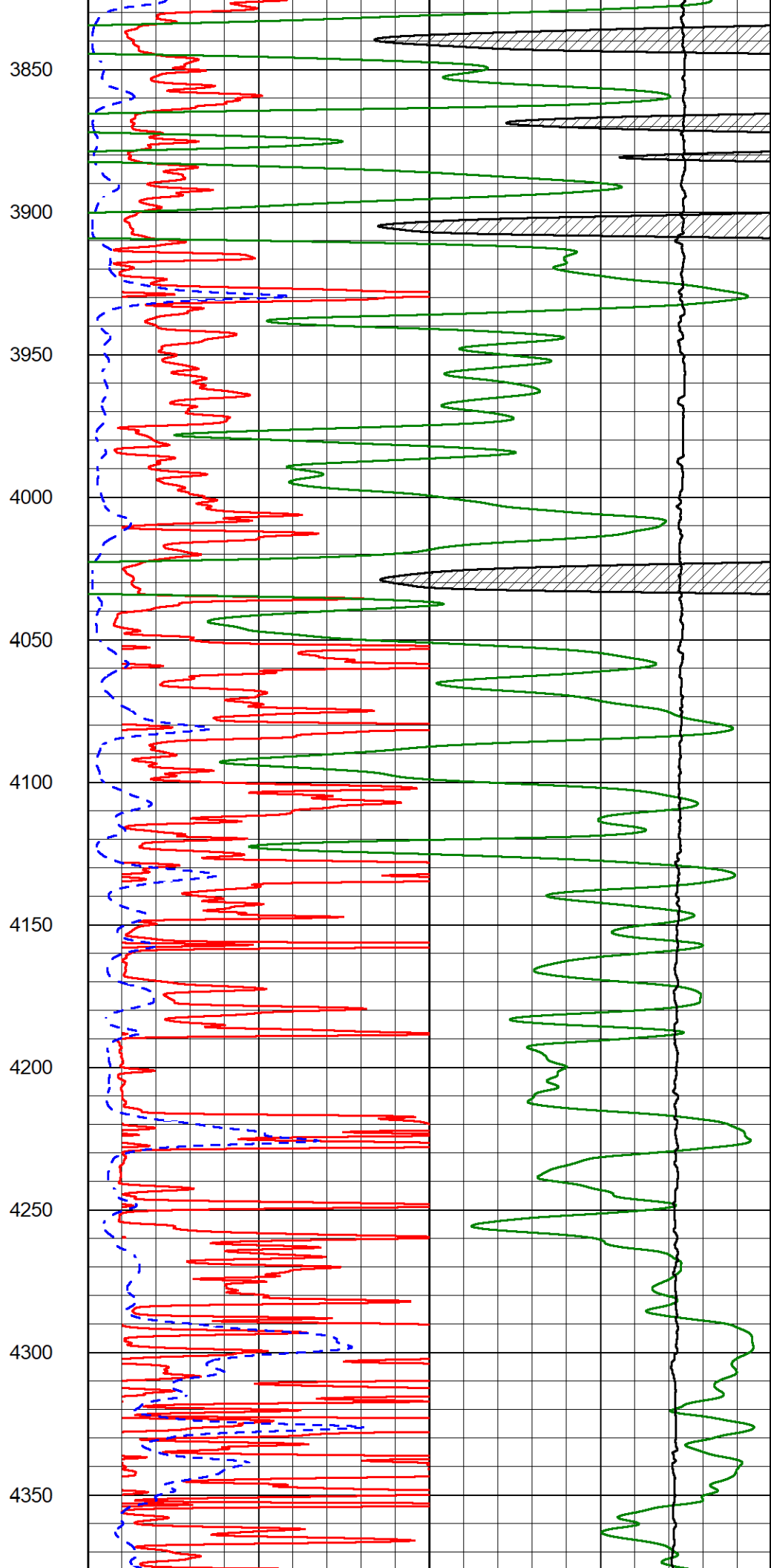
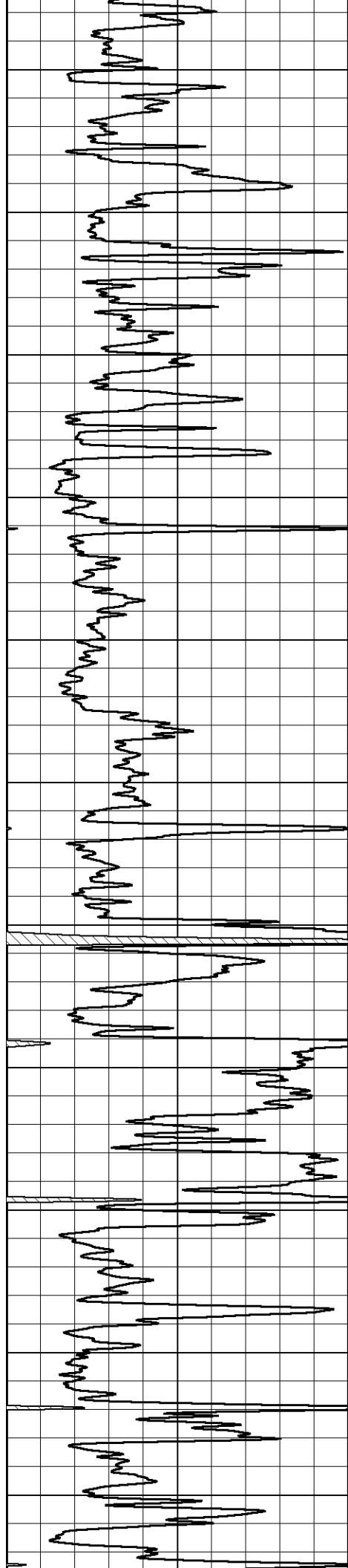


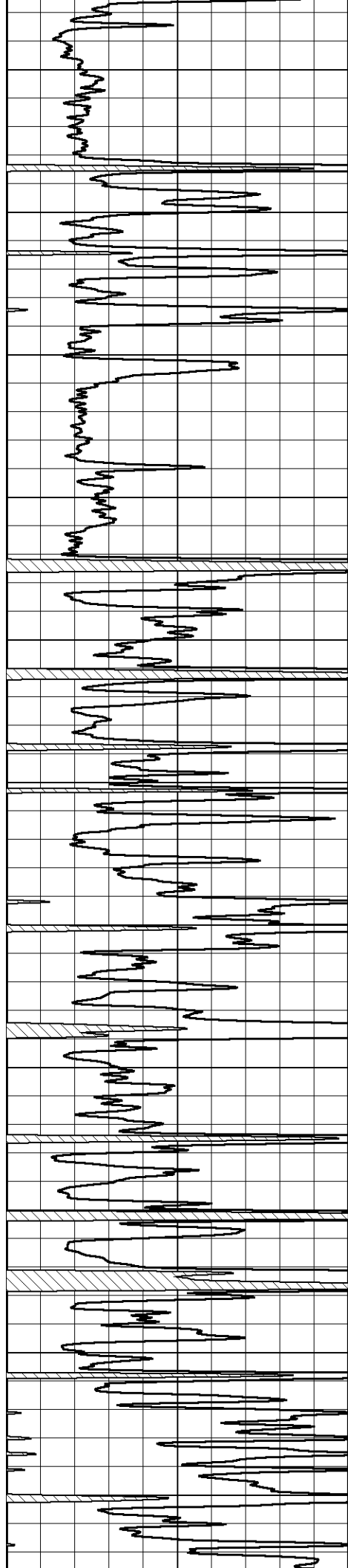












4400

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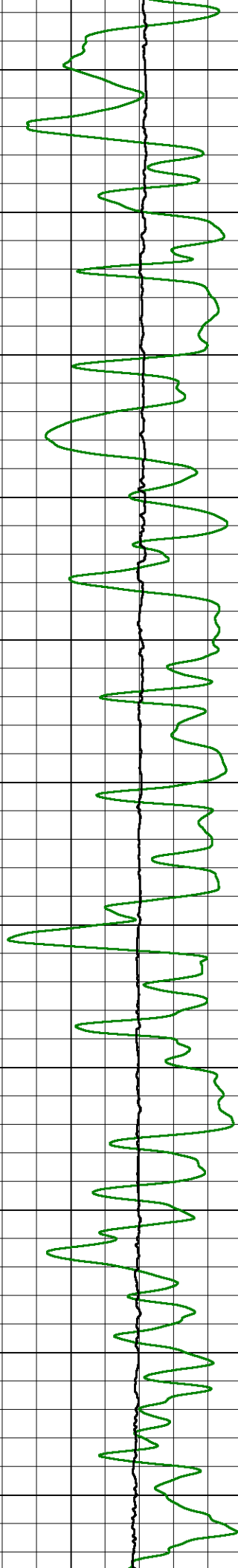
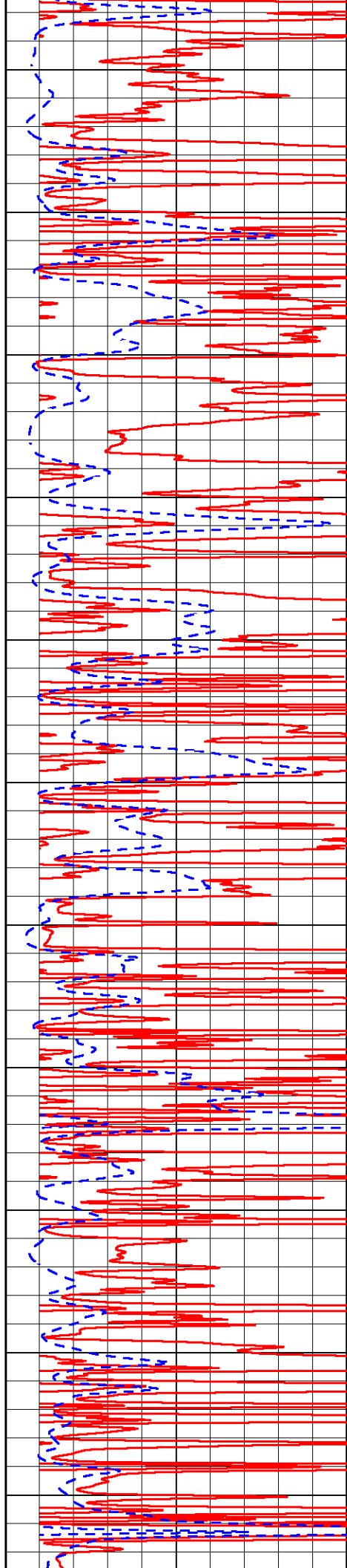
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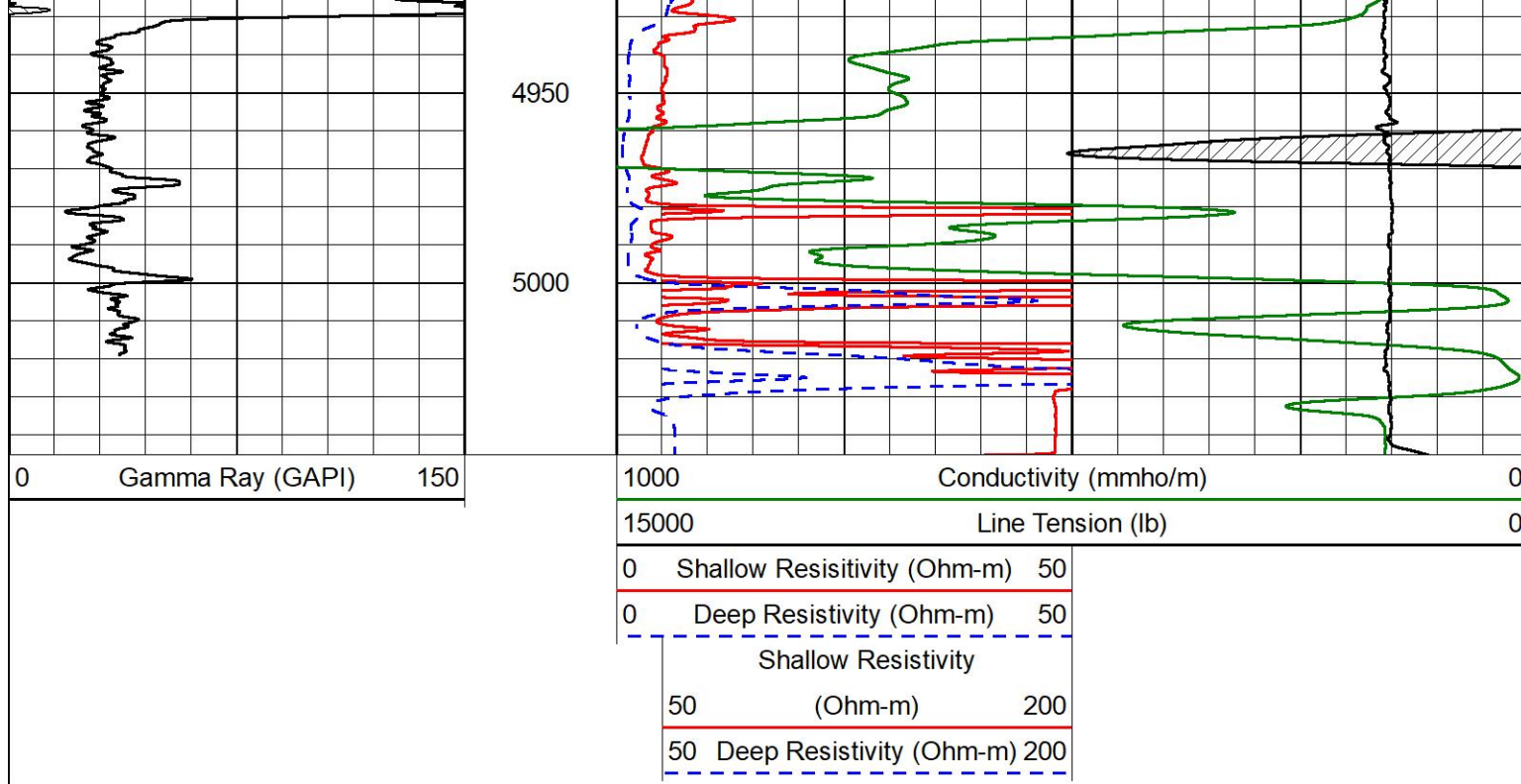
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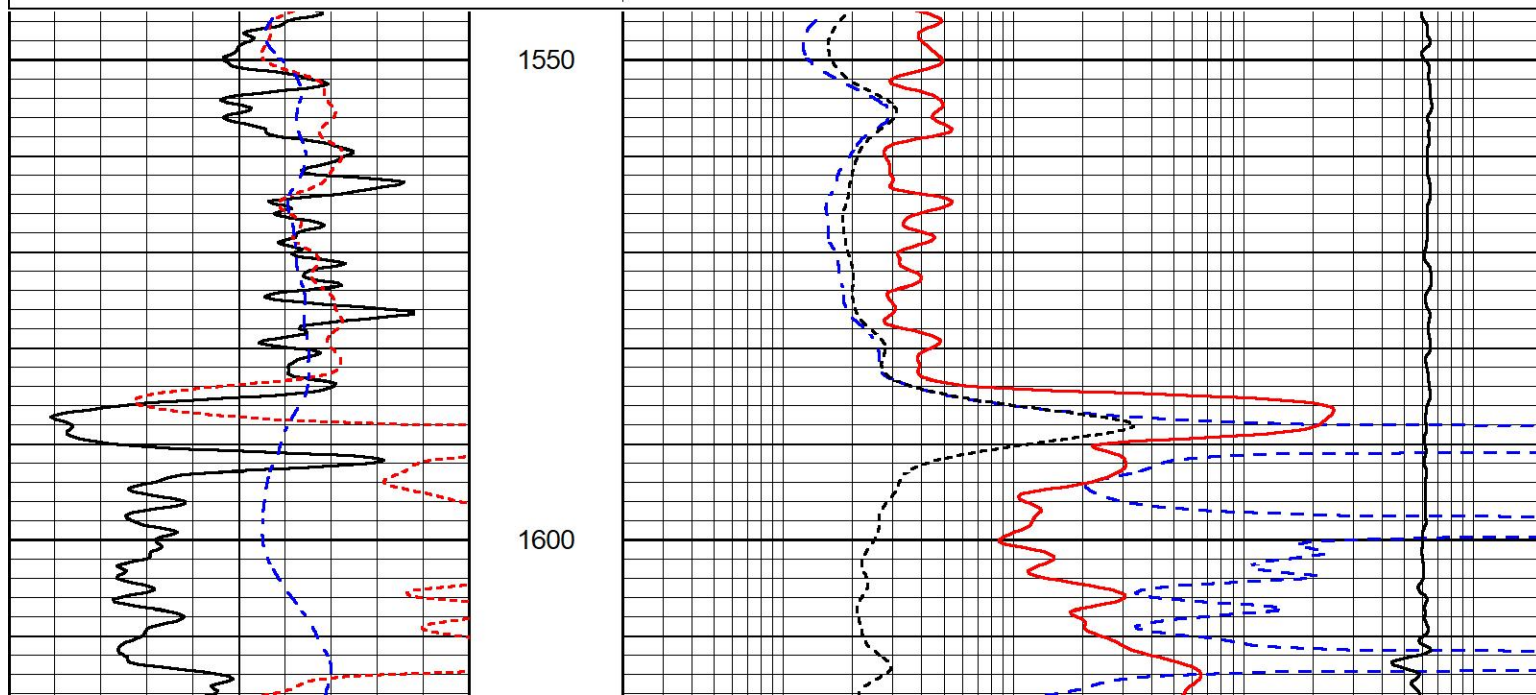
MIDWEST WIRELINE

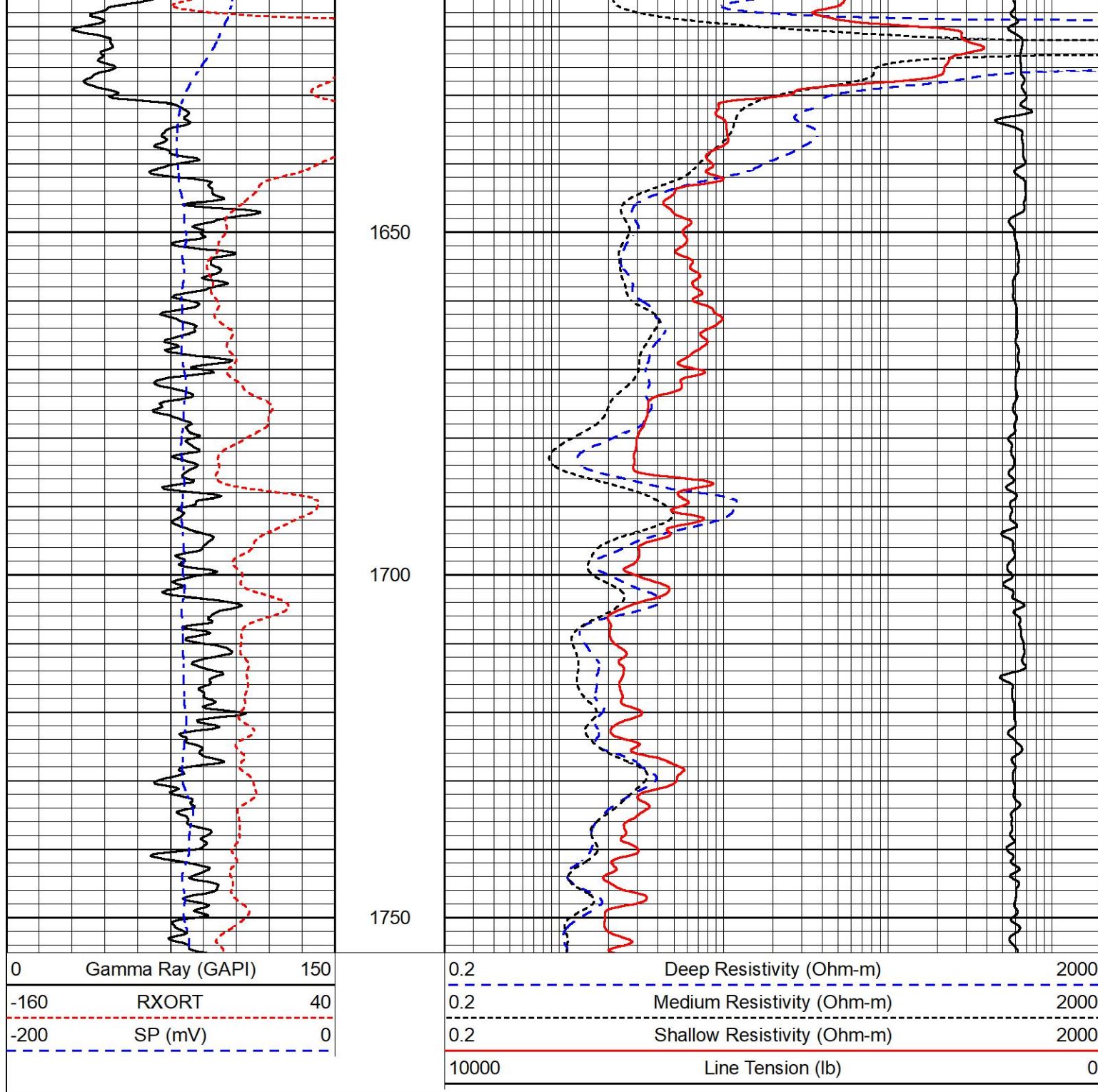
ANHYDRITE SECTION

MAIN PASS

Database File ritchie_fischer_10a_1.db
 Dataset Pathname stackml/pass5.1
 Presentation Format _dil
 Dataset Creation Tue Mar 08 23:46:52 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0





MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

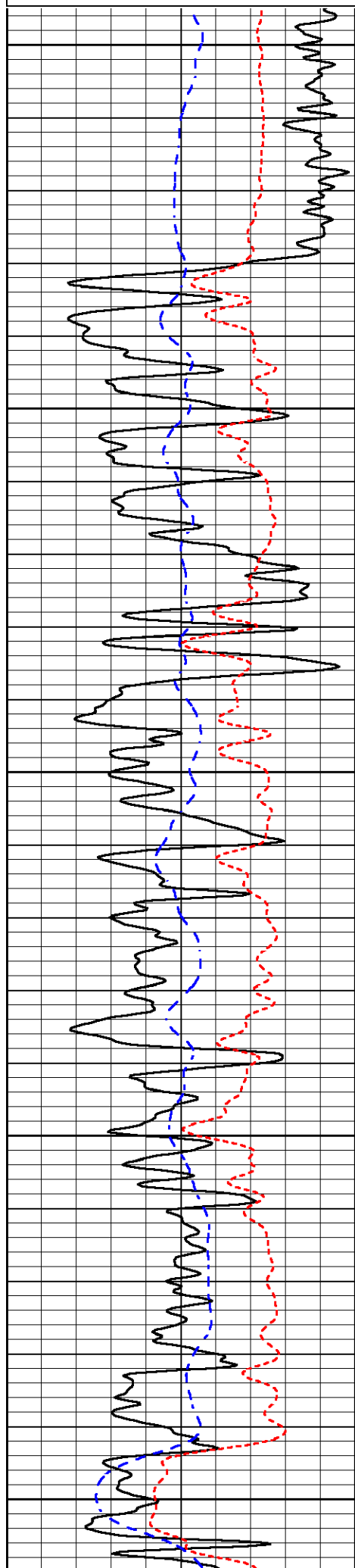
Database File ritchie_fischer_10a_1.db
 Dataset Pathname stackml/pass4.1
 Presentation Format _dil
 Dataset Creation Tue Mar 08 23:20:11 2022
 Charted by Depth in Feet scaled 1:240



10000

Line Tension (lb)

0



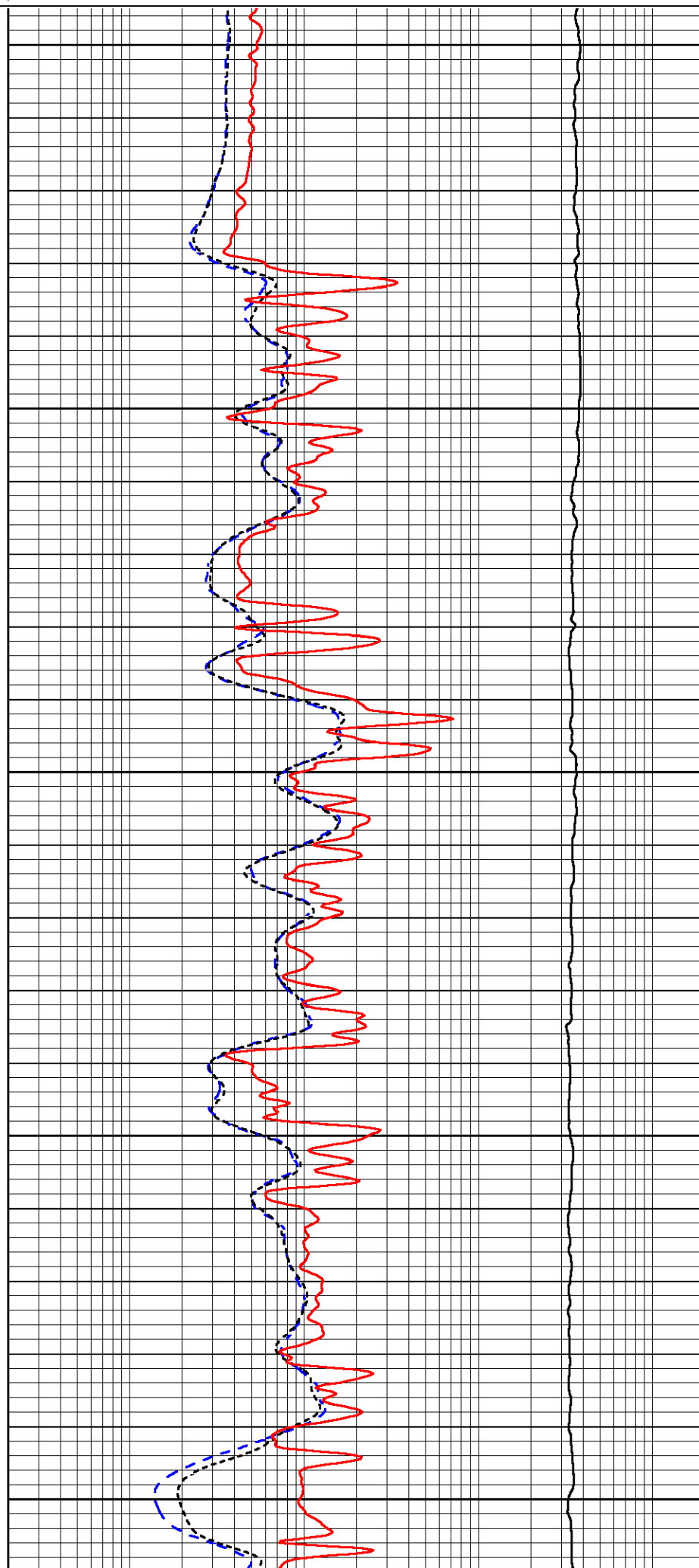
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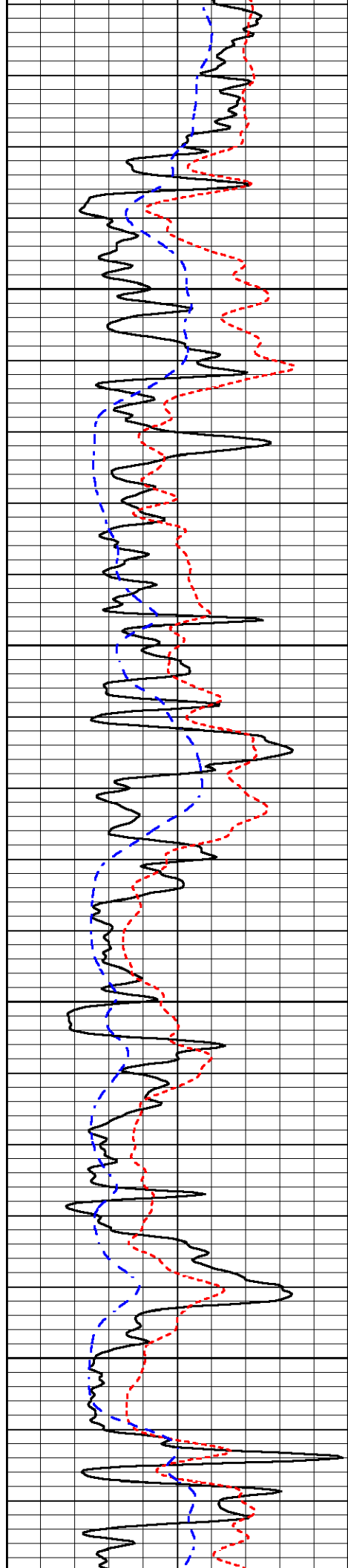
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3600

3650

3700



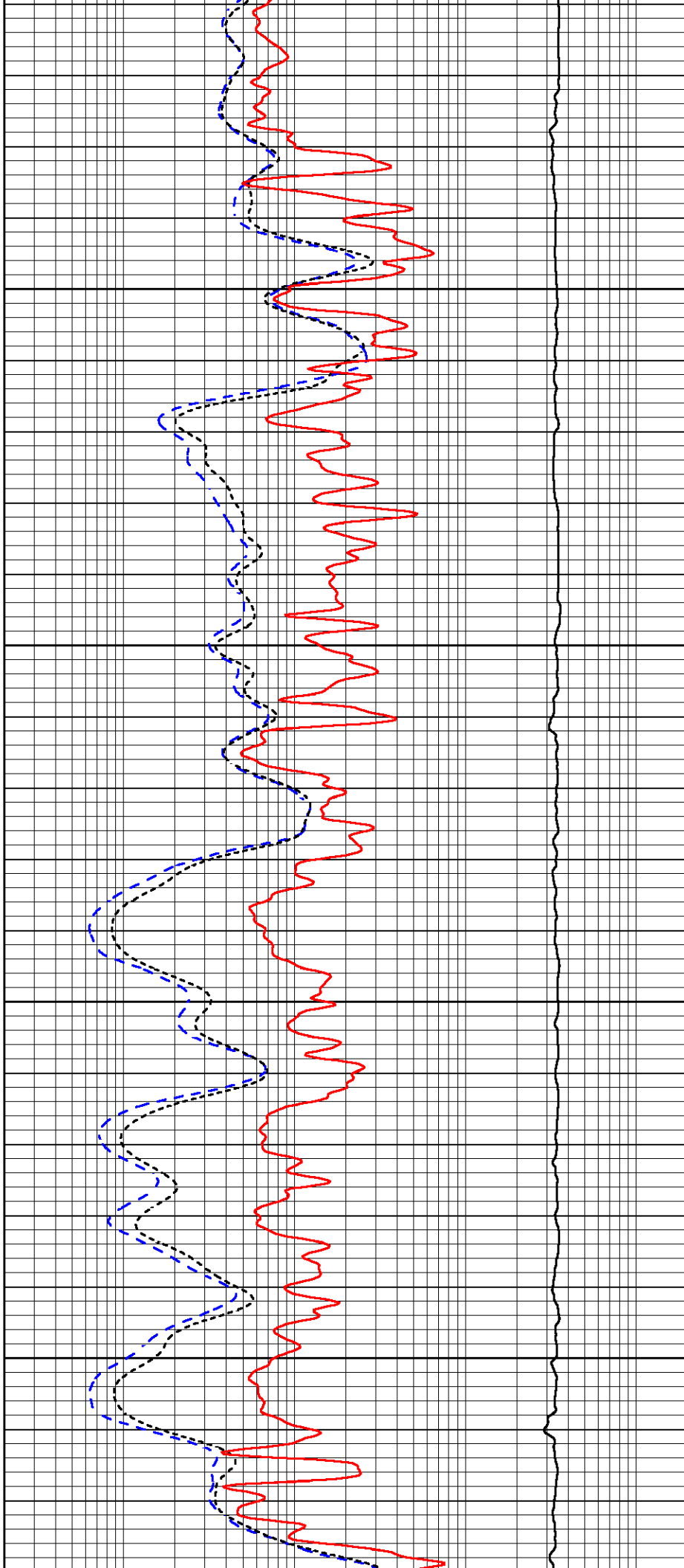


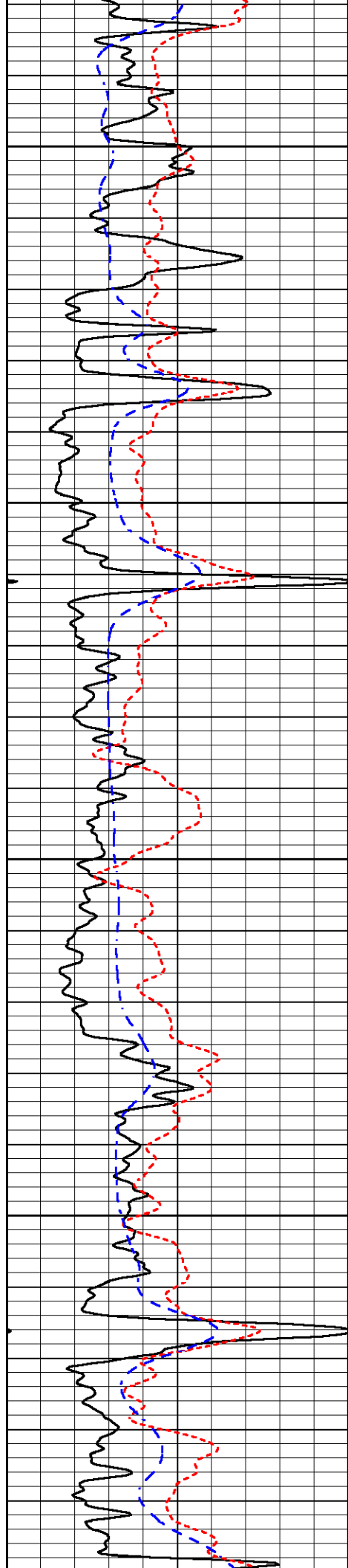
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3800

3850

3900





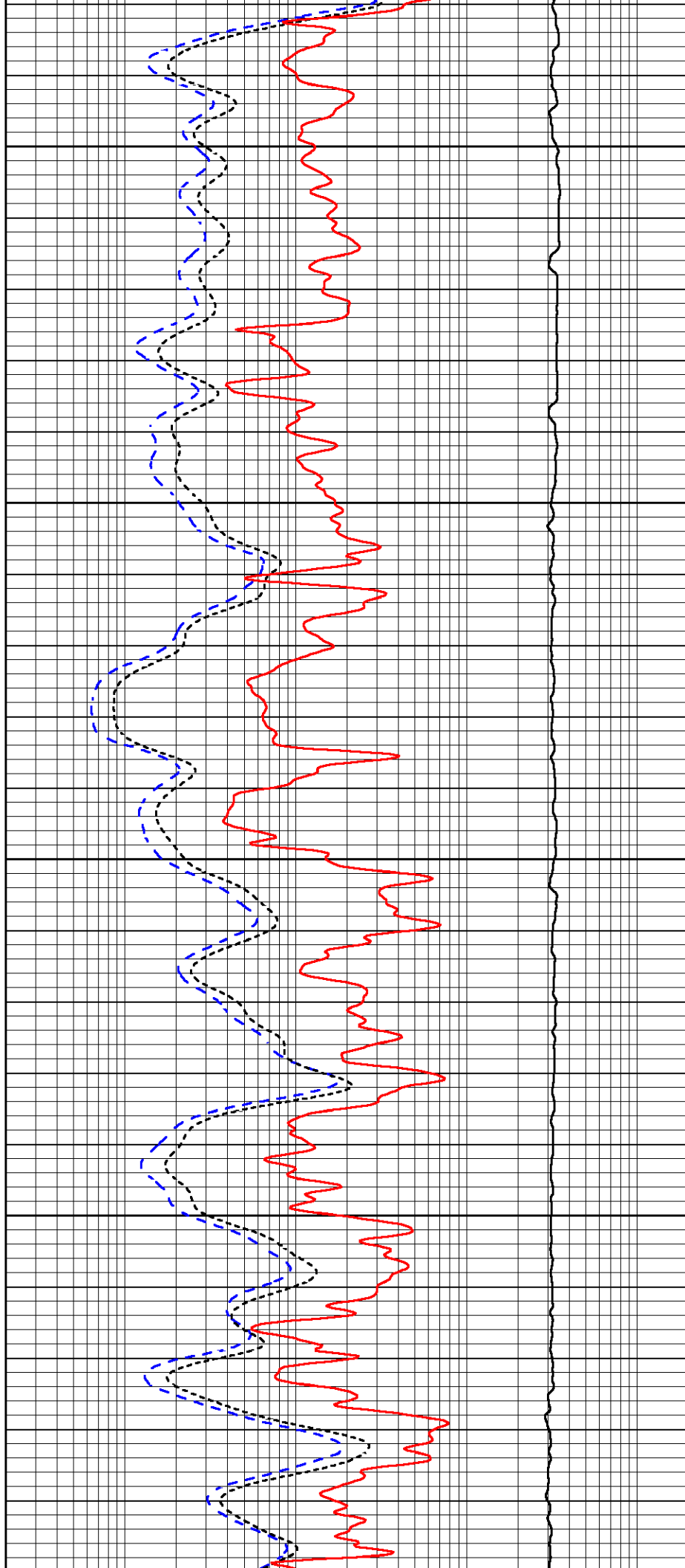
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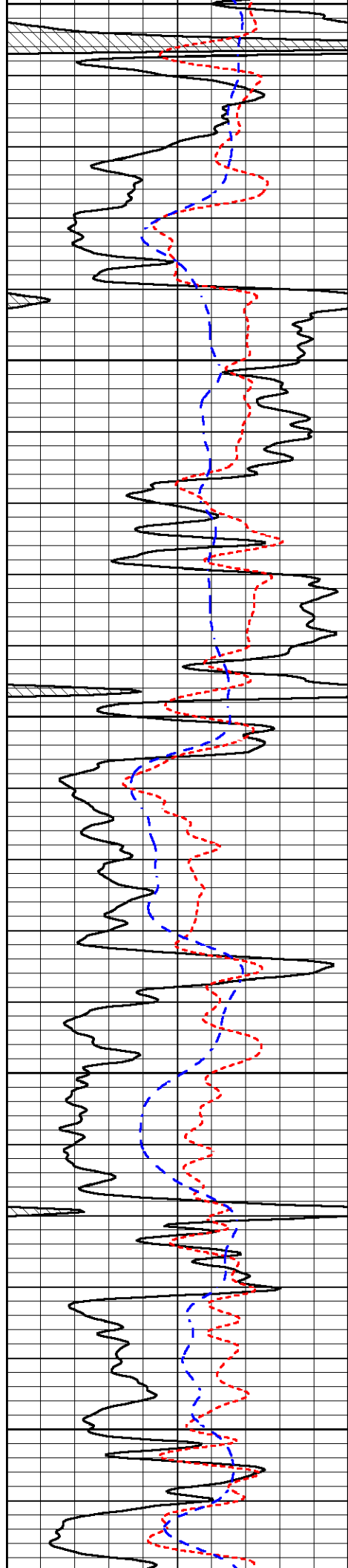
4000

4050

4100

4150





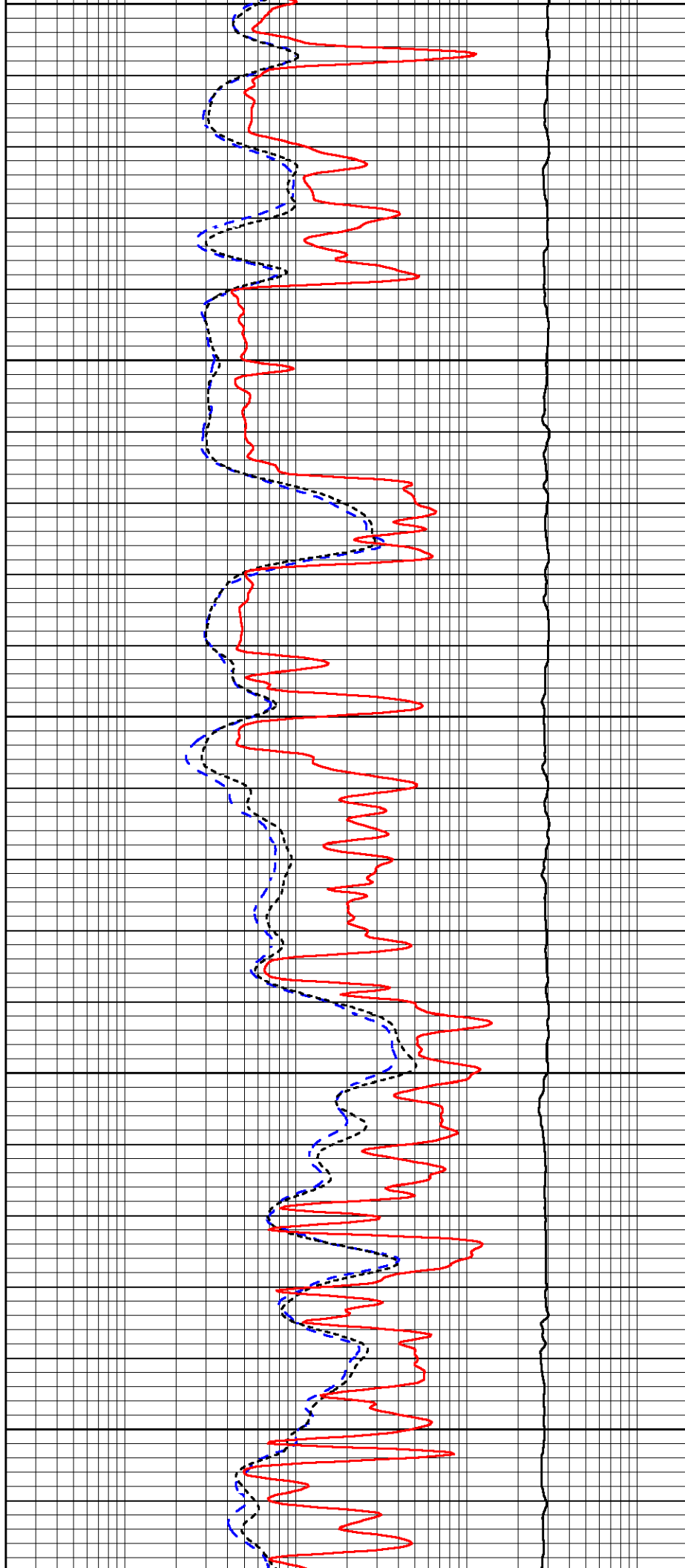
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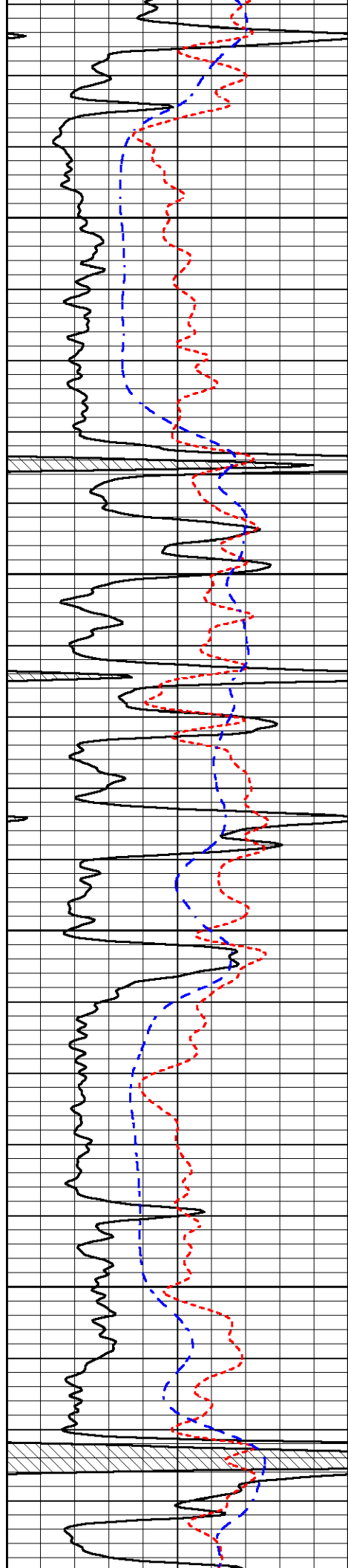
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4250

4300

4350



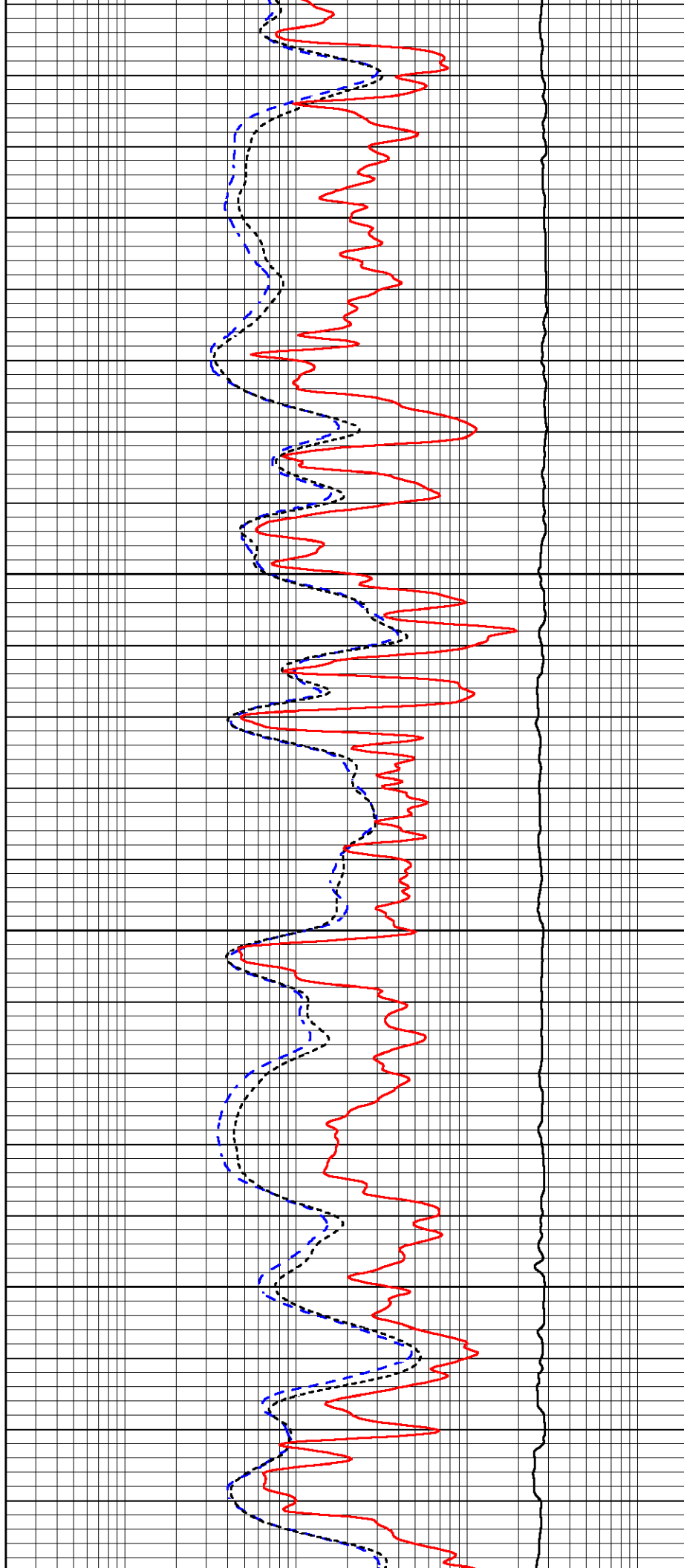


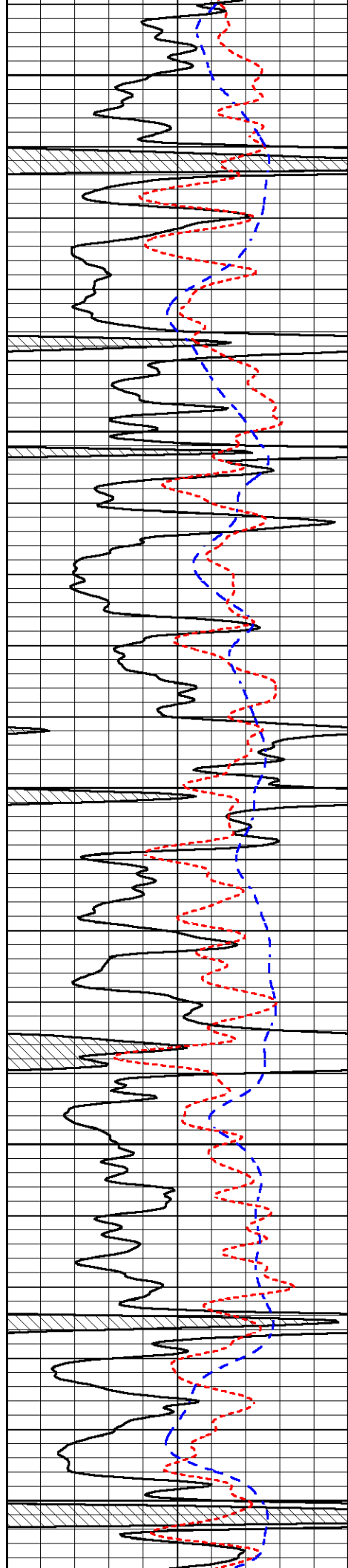
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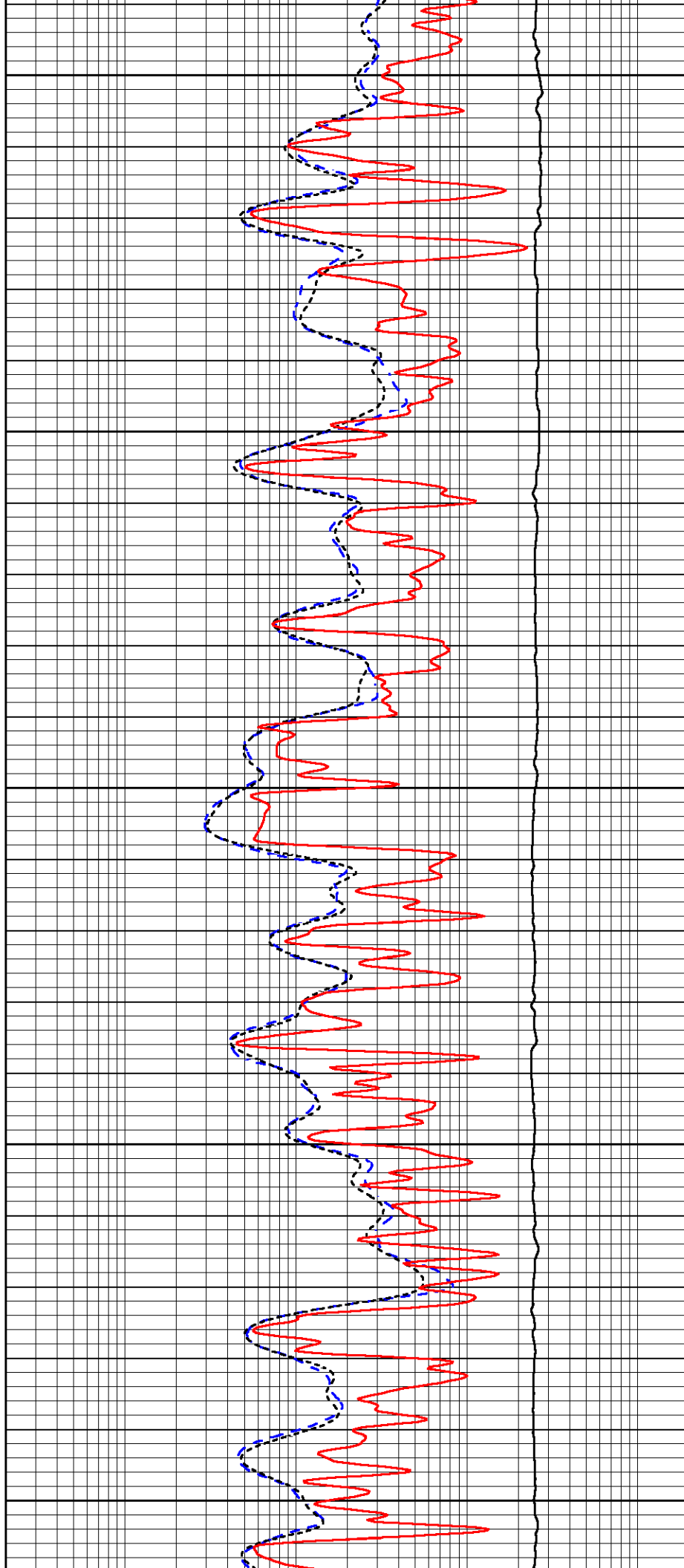
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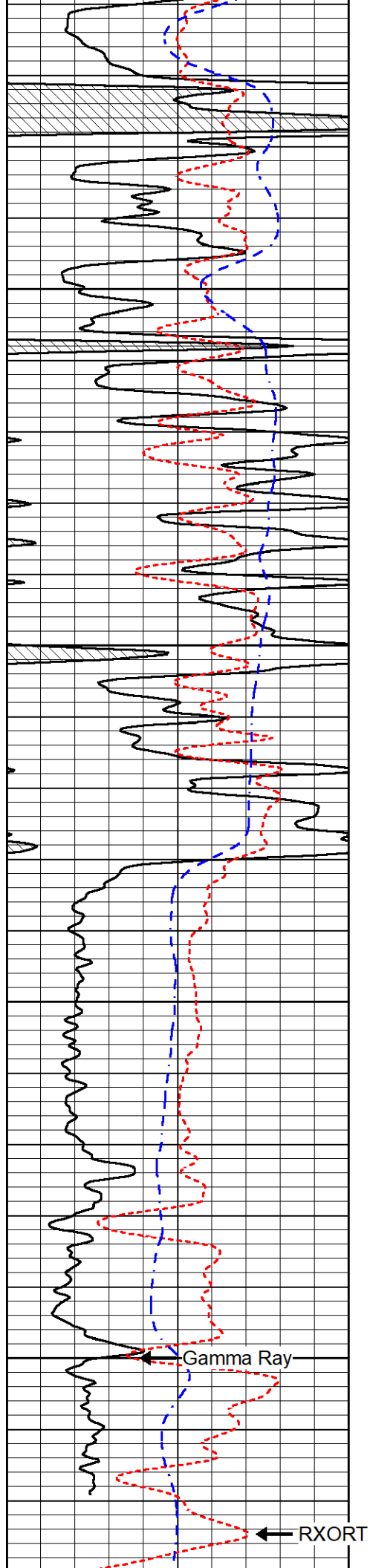
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4700

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4850

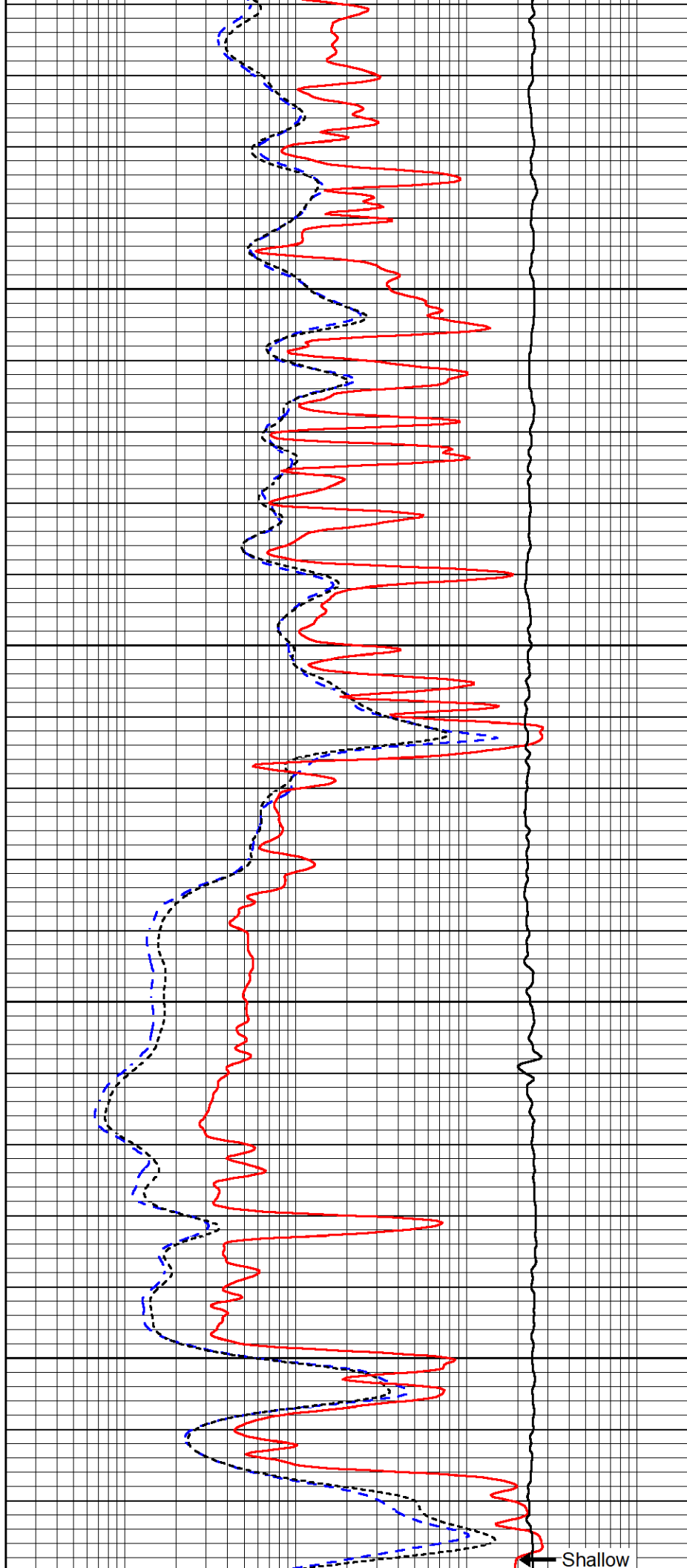
4900

4950

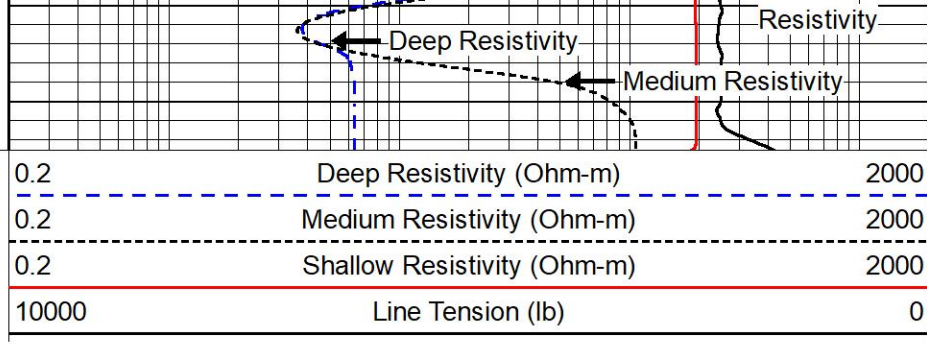
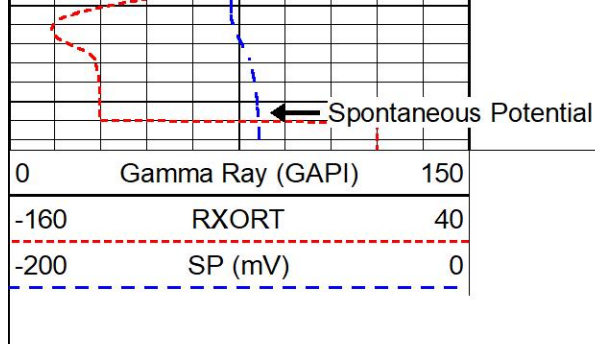
5000

Gamma Ray

RXORT



Shallow

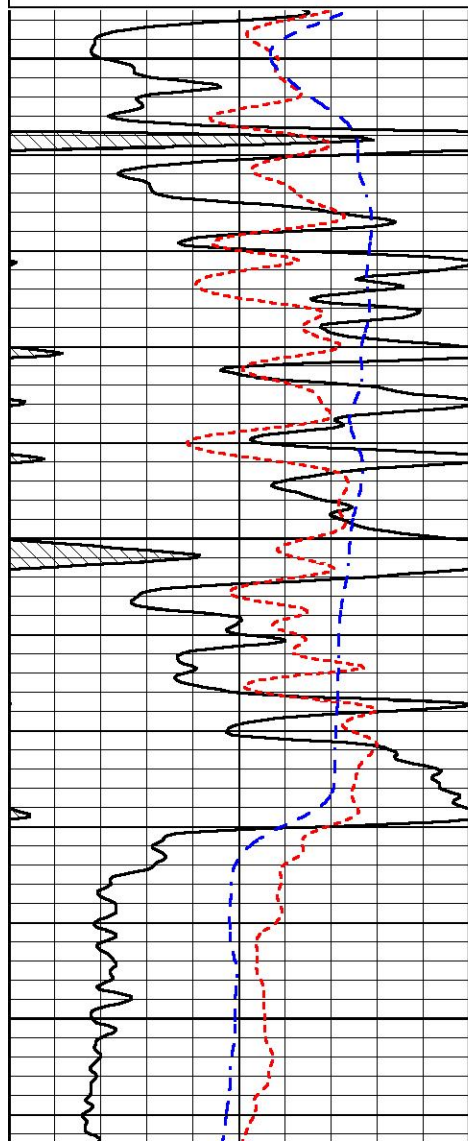
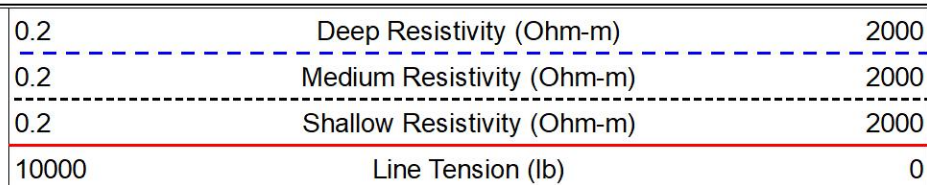
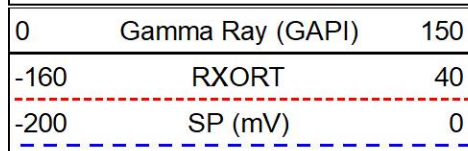


MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

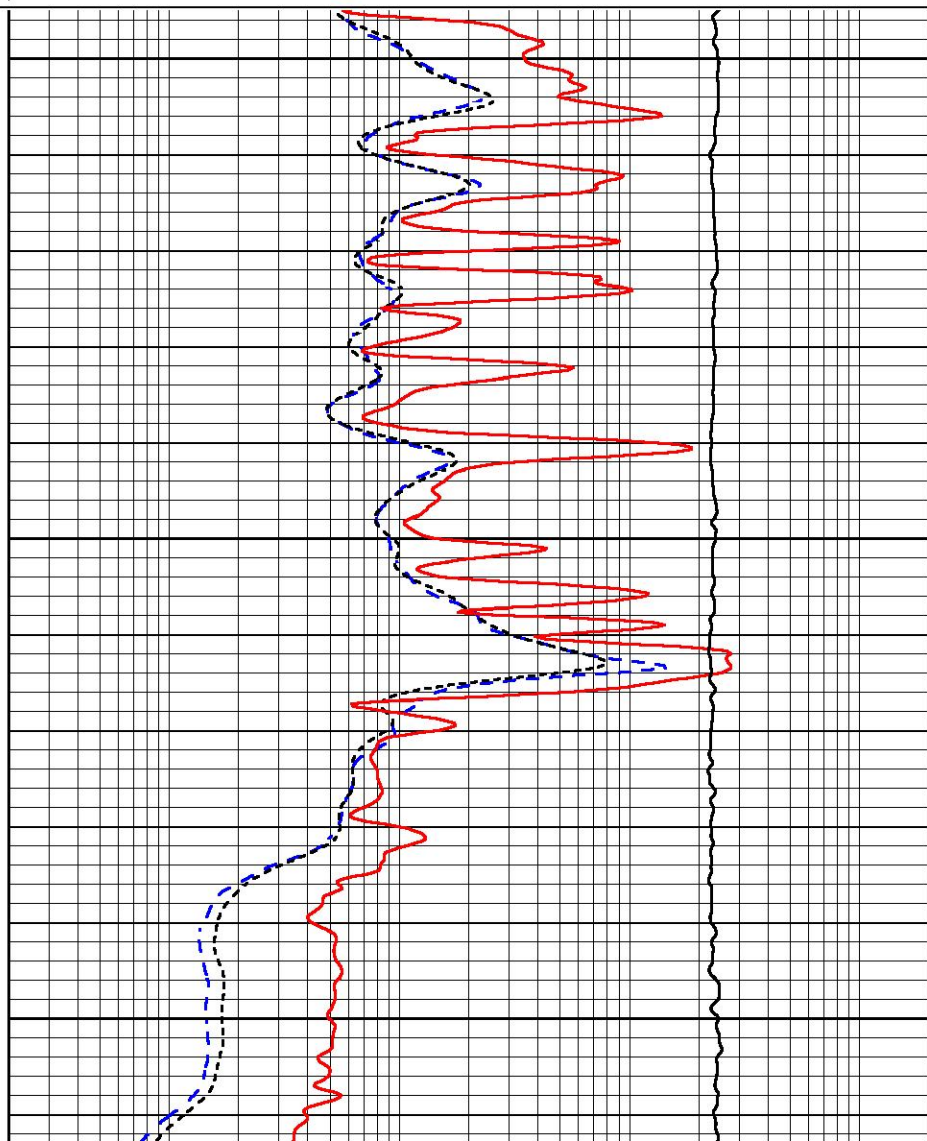
Database File ritchie_fischer_10a_1.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Tue Mar 08 23:13:05 2022
 Charted by Depth in Feet scaled 1:240



4850

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4950



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	1.05		

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



Company	Ritchie Exploration, Inc.
Well	Fischer 10A #1
Field	Unnamed
County	Ford
State	Kansas