



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Brito Oil Company, Inc.

Well Johnson #1-9

Field

County

Rawlins

State Kansas

Location: API #: 15-153-21292-00-00

2114 FNL & 518 FEL

SEC 9 TWP 4S RGE 36W

Other Services

CNL/CDL

MEL

Permanent Datum Ground Level Elevation 3218
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing

Elevation
 K.B. 3223
 D.F.
 G.L. 3218

Date	6/16/2022	
Run Number	One	
Depth Driller	4800	
Depth Logger	4798	
Bottom Logged Interval	4797	
Top Log Interval	350	
Casing Driller	8,625 @ 348	
Casing Logger	345	
Bit Size	7.875	
Type Fluid in Hole	Chemical	
Salinity, ppm CL	2000	
Density / Viscosity	9.2	54
pH / Fluid Loss	10.5	7.2
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	0.80 @	76
Rmt @ Meas. Temp	0.60 @	76
Rmc @ Meas. Temp	1.08 @	76
Source of Rmf / Rmc	CHARTS	
Rm @ BHT	0.49 @	124
Operating Rig Time	3 Hours	
Max Rec. Temp. F	124	
Equipment Number	P-108	
Location	HAYS	
Recorded By	D. Schmidt	
Witnessed By	Saman Sharifaie	

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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.

McDonald,
 South to K, 1 East,
 North to location

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: D. Schmidt
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Saman Sharifaie
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

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 (304-04)	8.50	4.00	250.00
ML-PSI STKBL ML (401)			7.58	4.00	65.00	
MCAL MI MN	19.58 19.58 19.58					
RLL3F RLL3	15.50 15.50					
DIL-M&W (504 HT)			18.25	3.50	220.00	
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: brito_johnson 1-9.db: field/well/stkml/pass3.12
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\brito_johnson 1-9.db
 Dataset field/well/stkml/pass3.12/_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	0	0	0	415	60	Off	4798

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

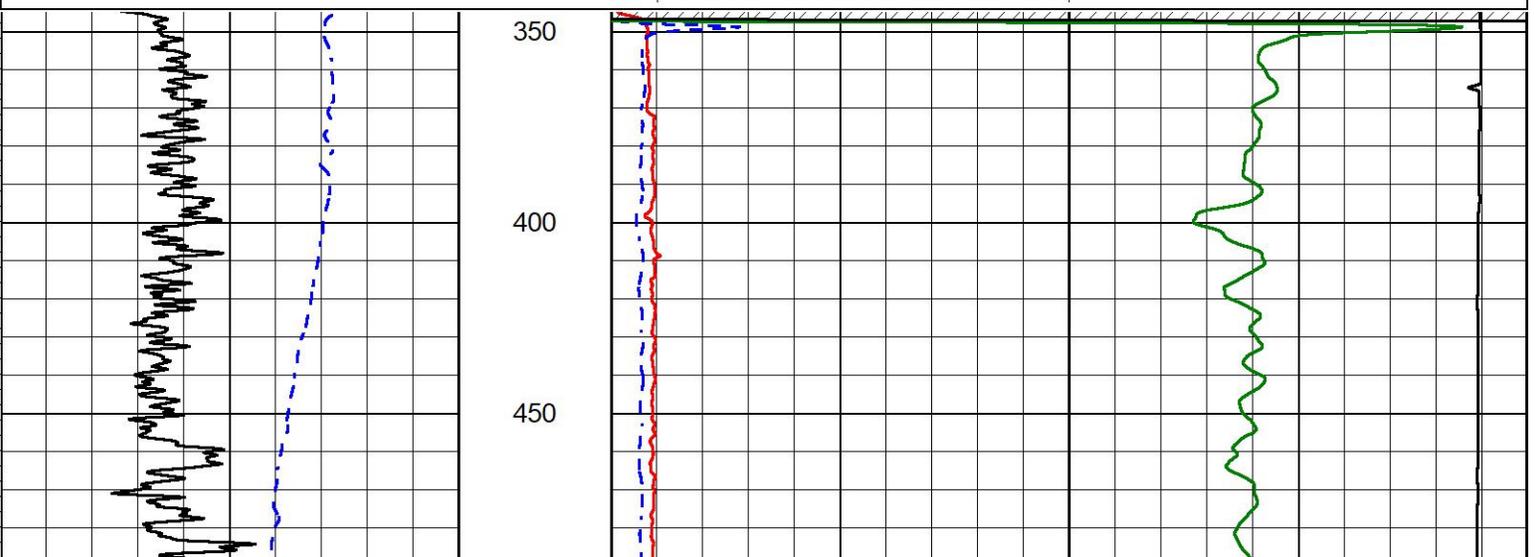


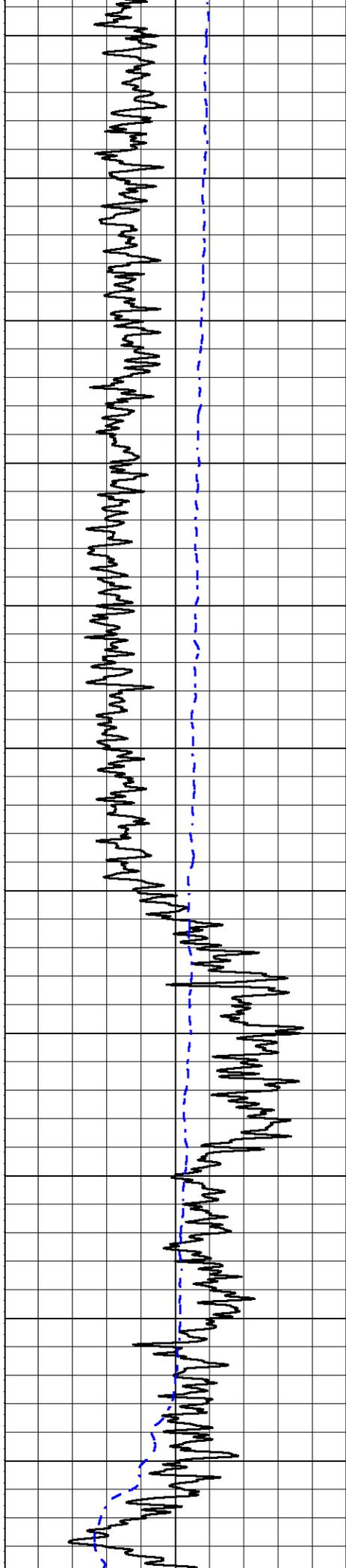
2" SCALE RESISTIVITY

MAIN PASS

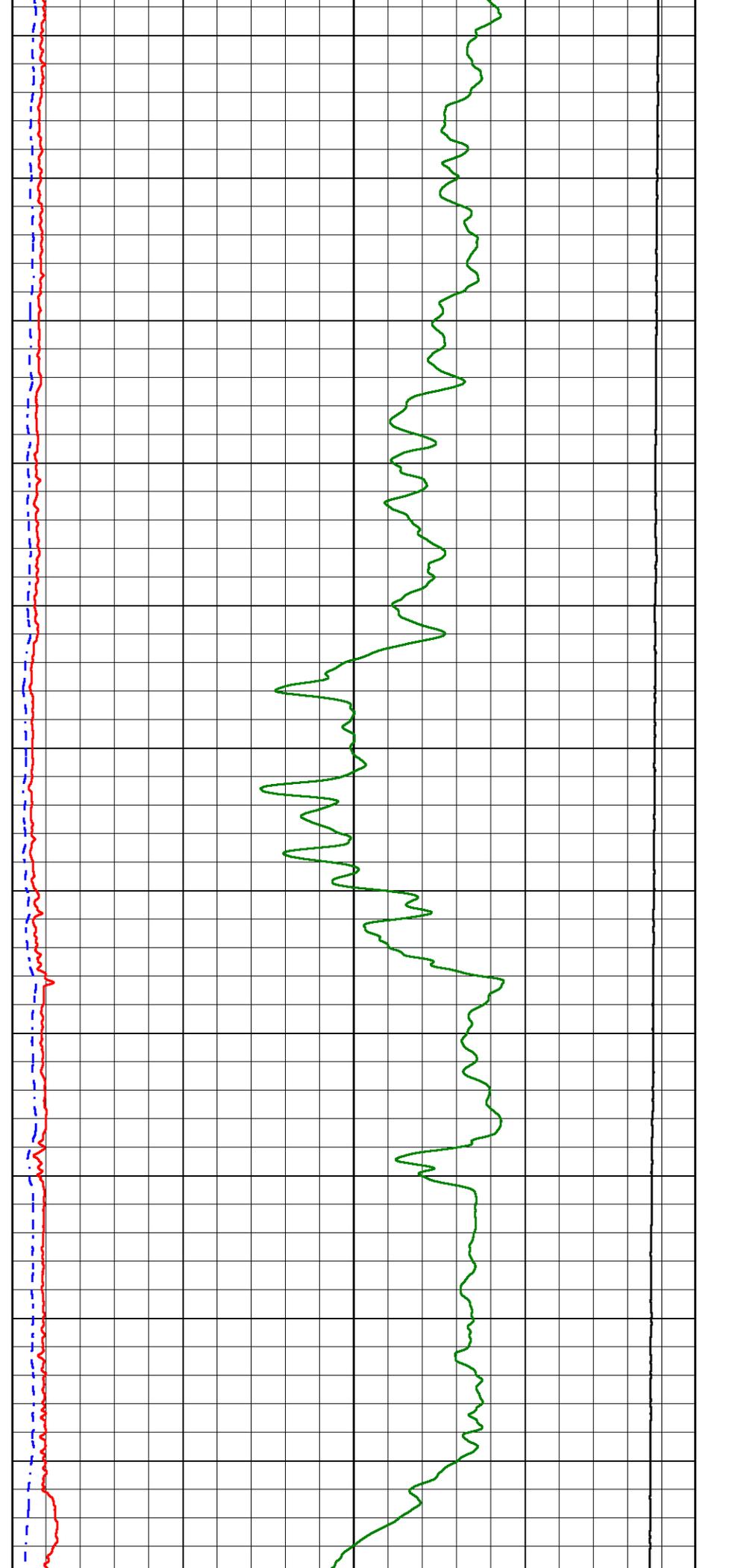
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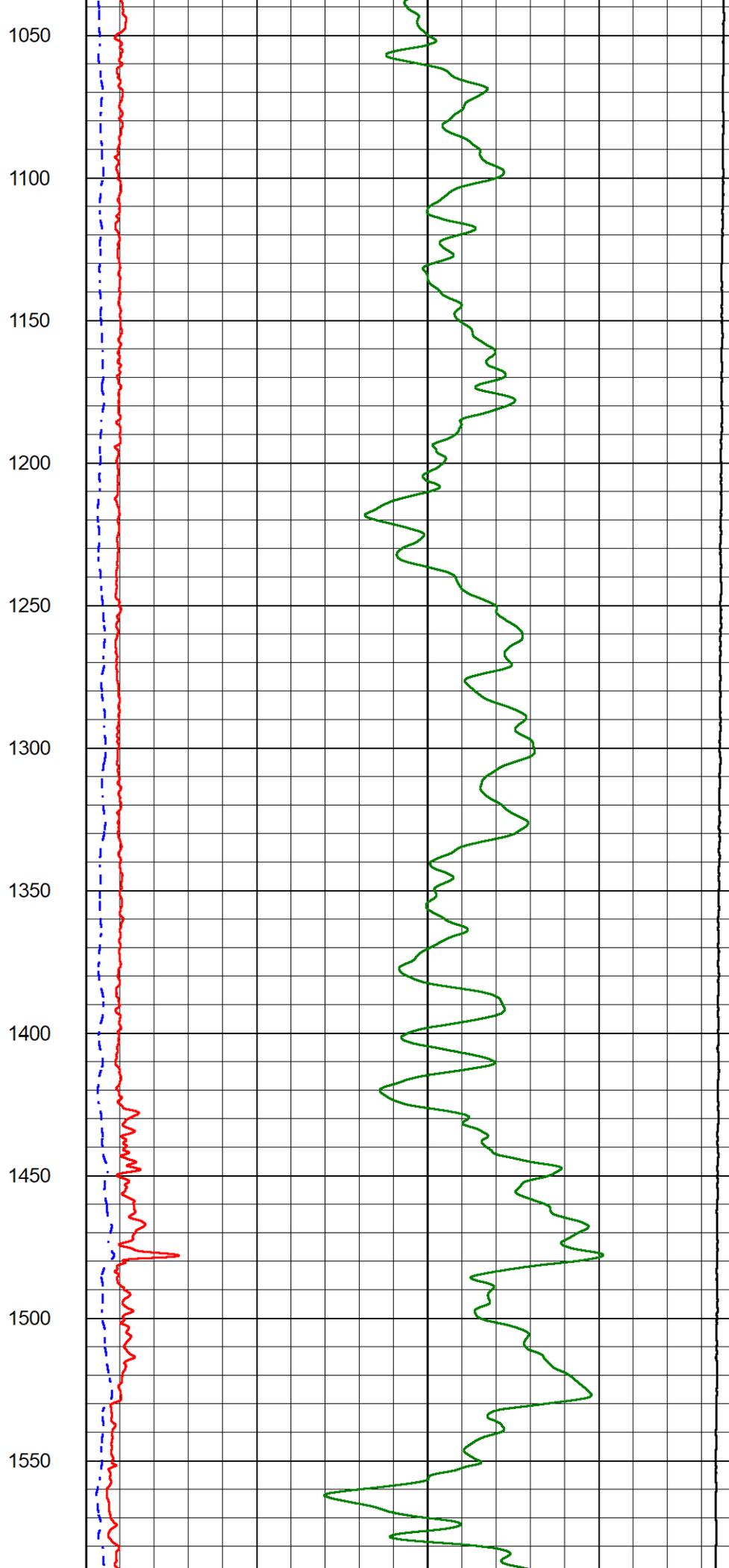
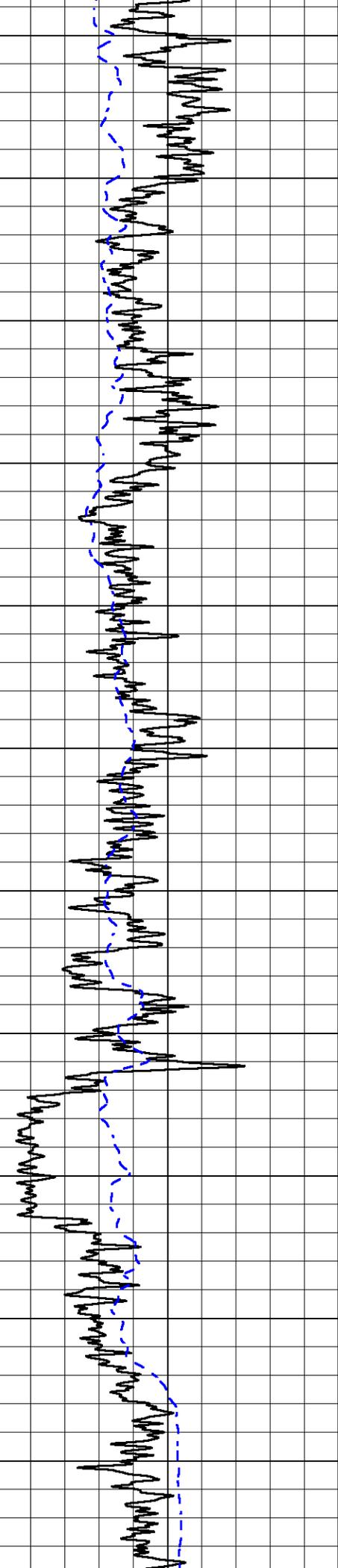
0	Gamma Ray (GAPI)	300	1000	Conductivity (mmho/m)	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			50	Shallow Resistivity (Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

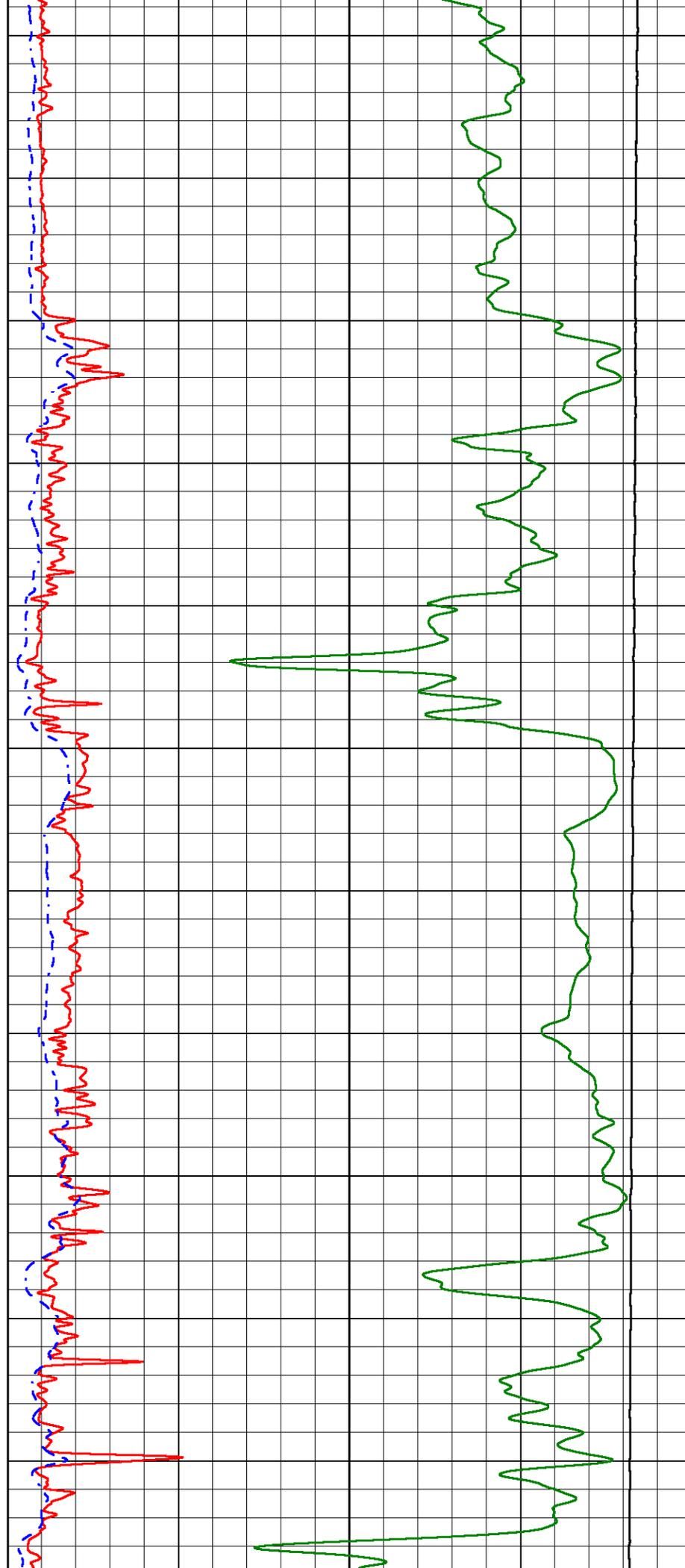
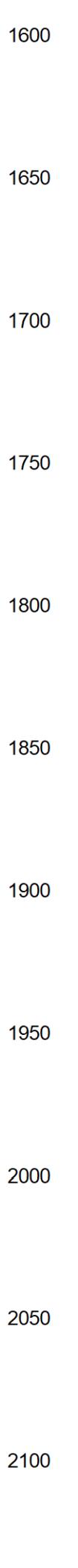
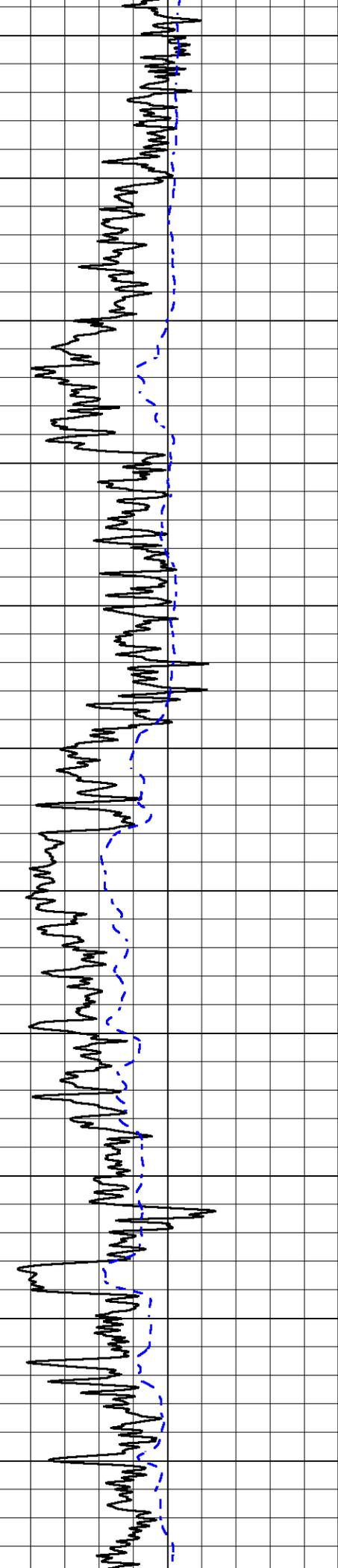


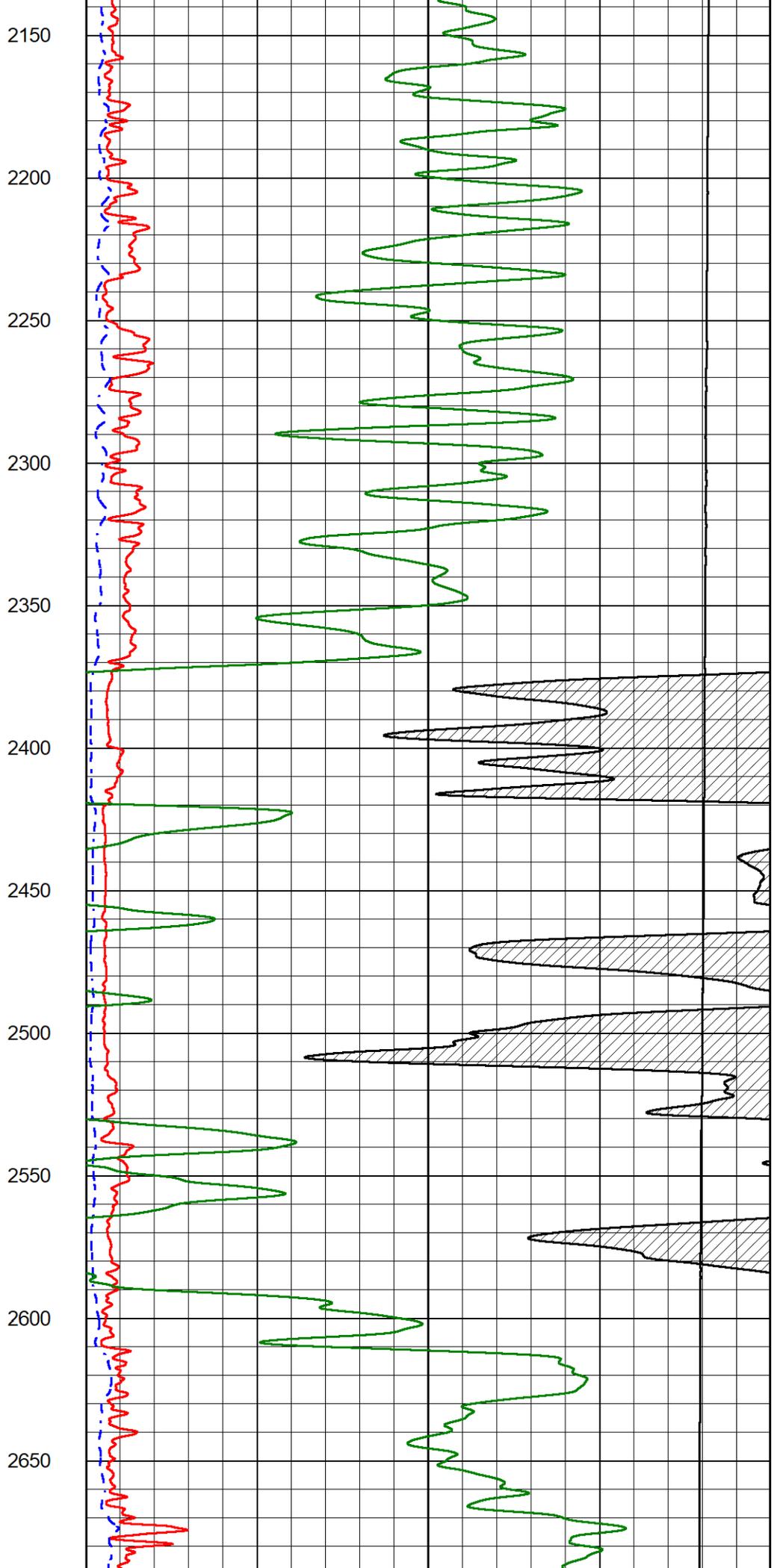
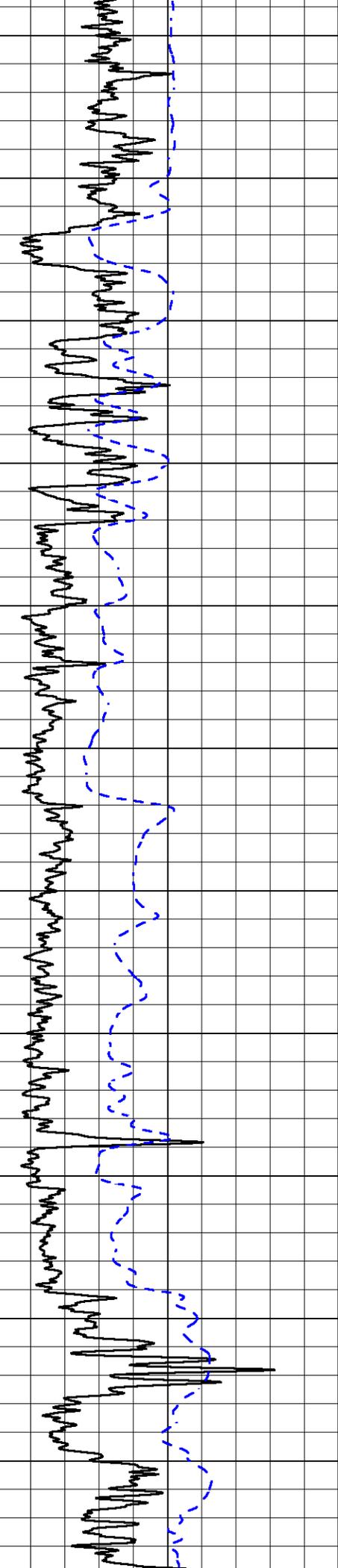


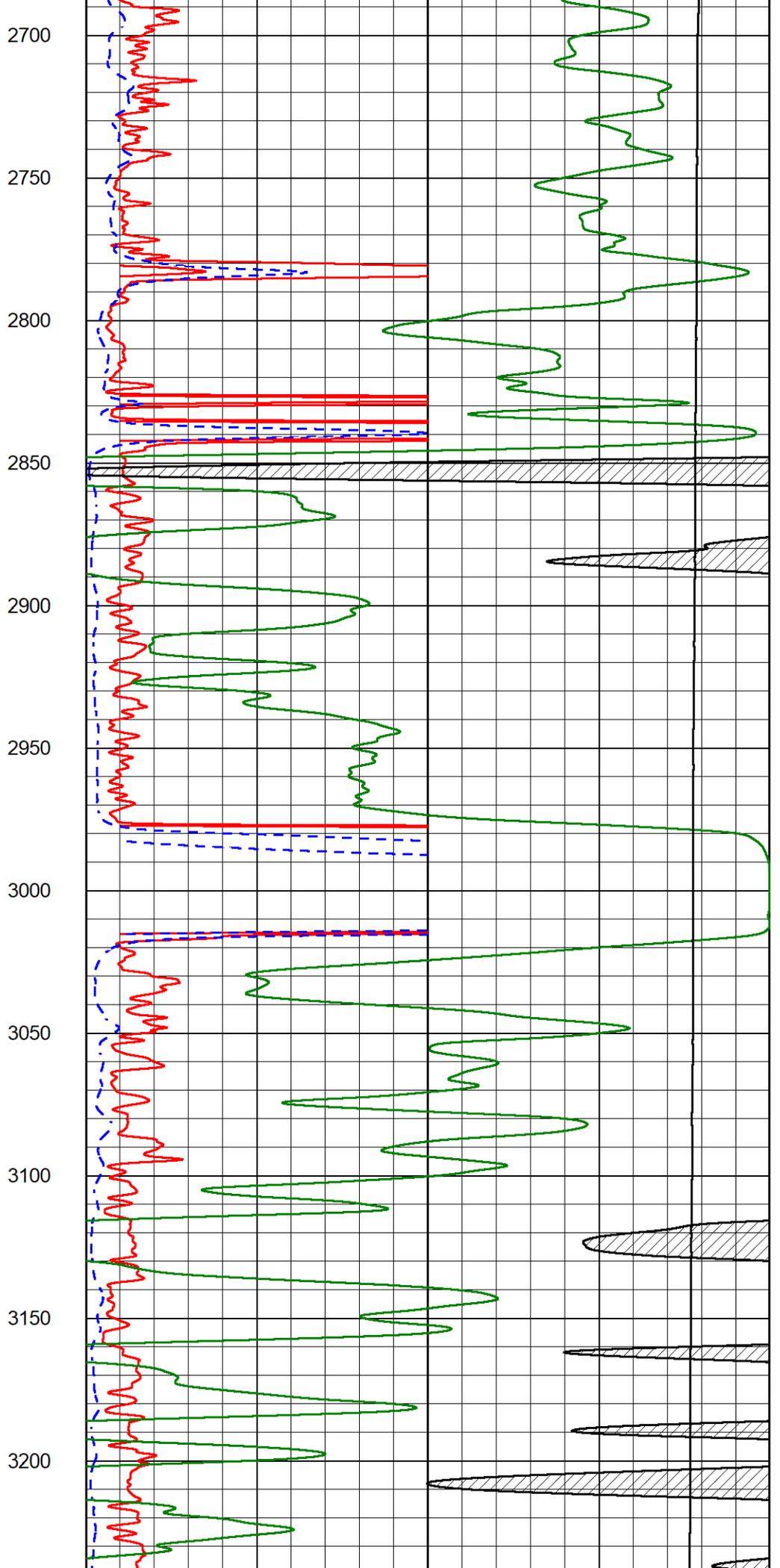
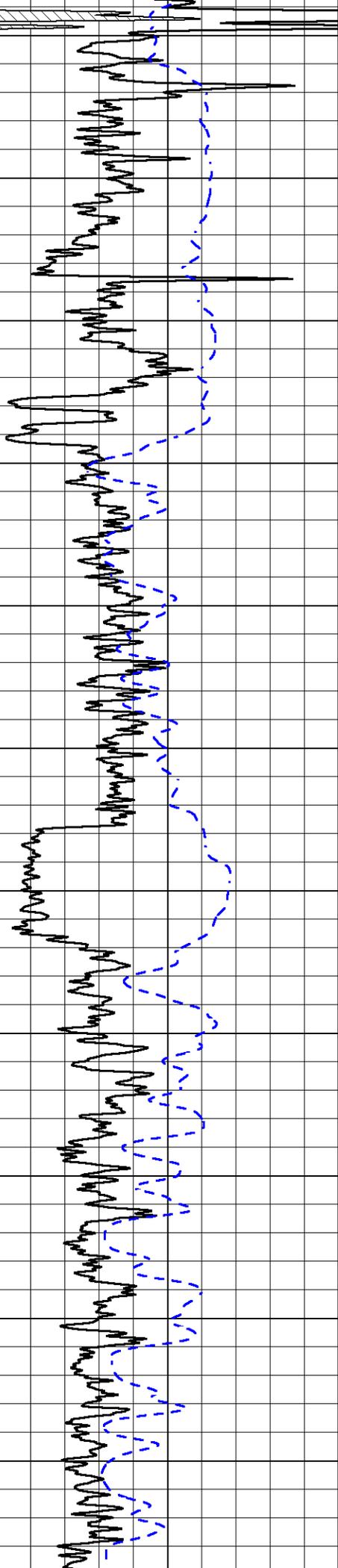
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900
950
1000



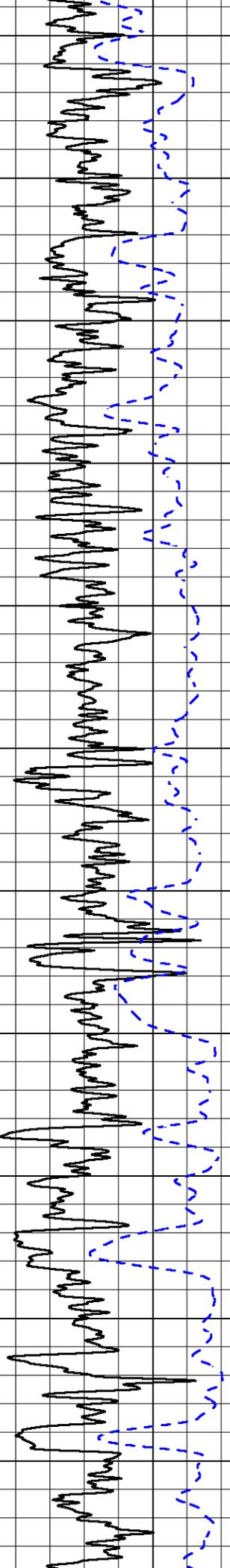
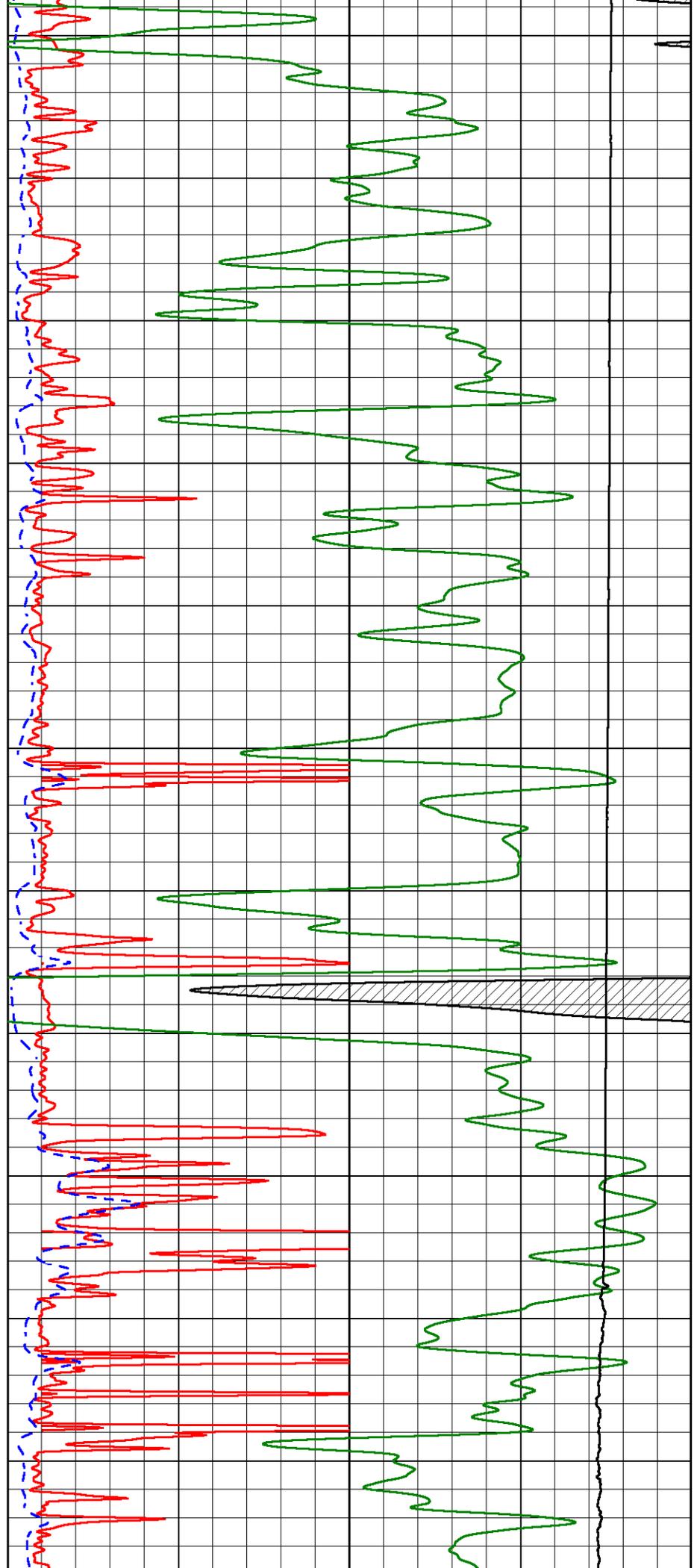


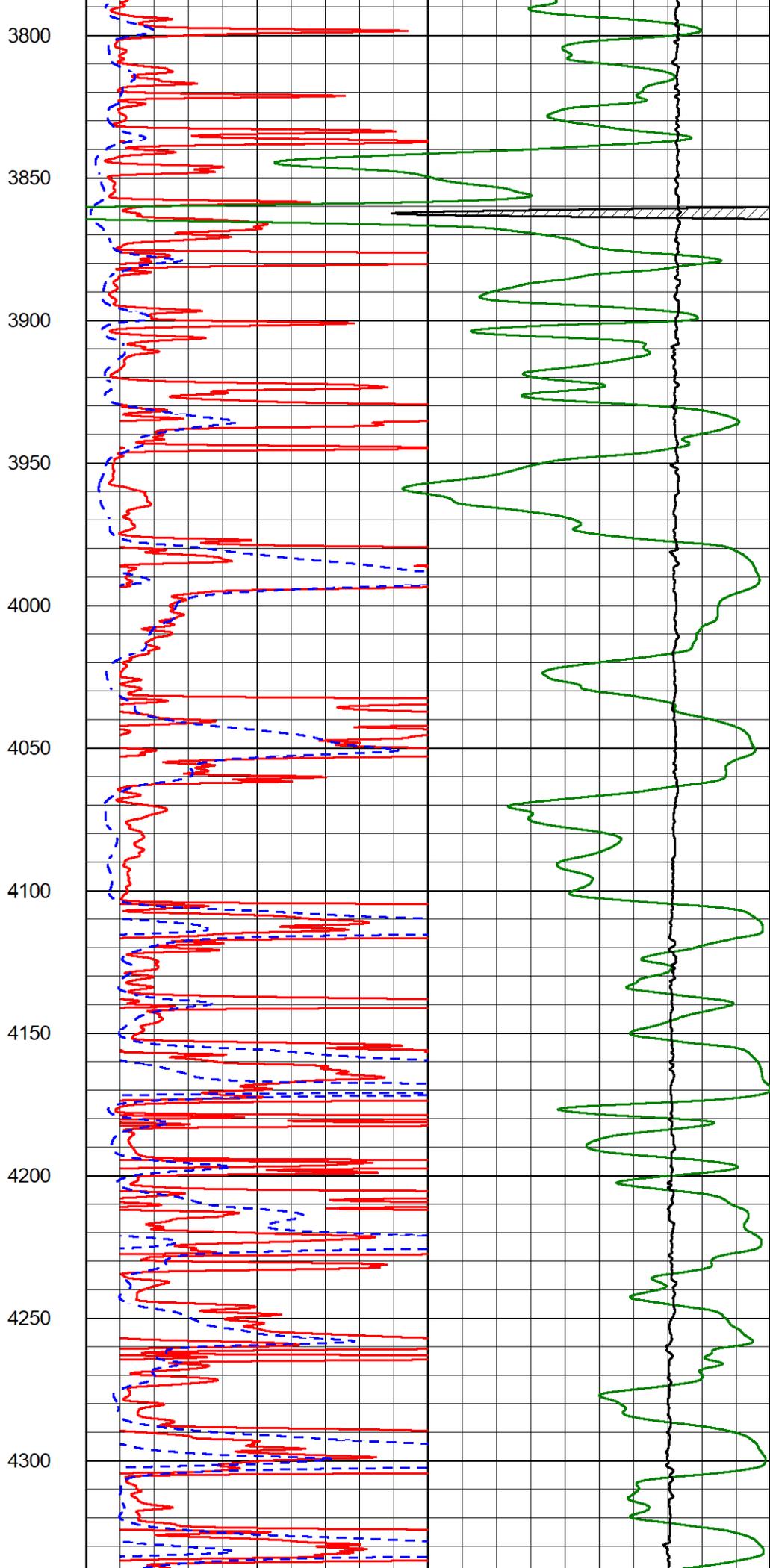
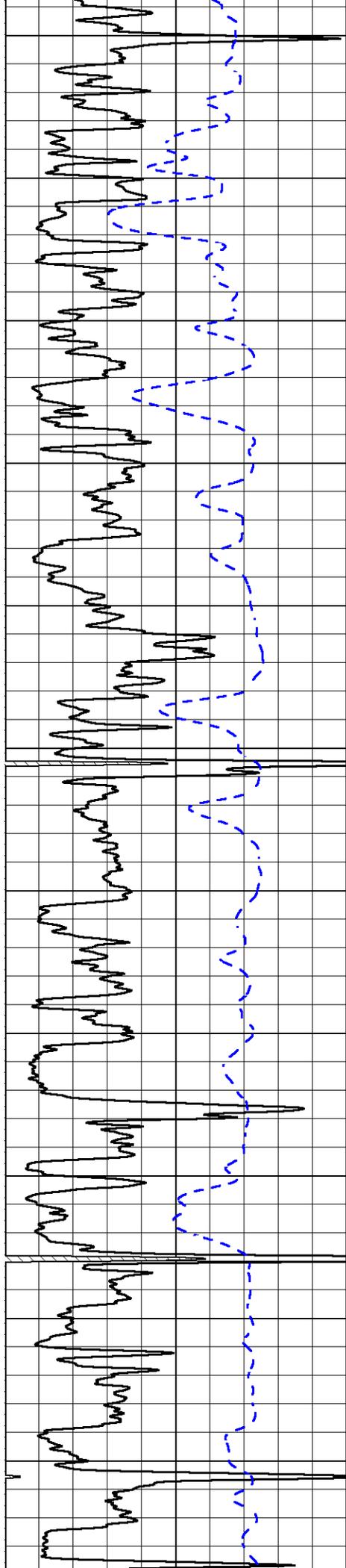


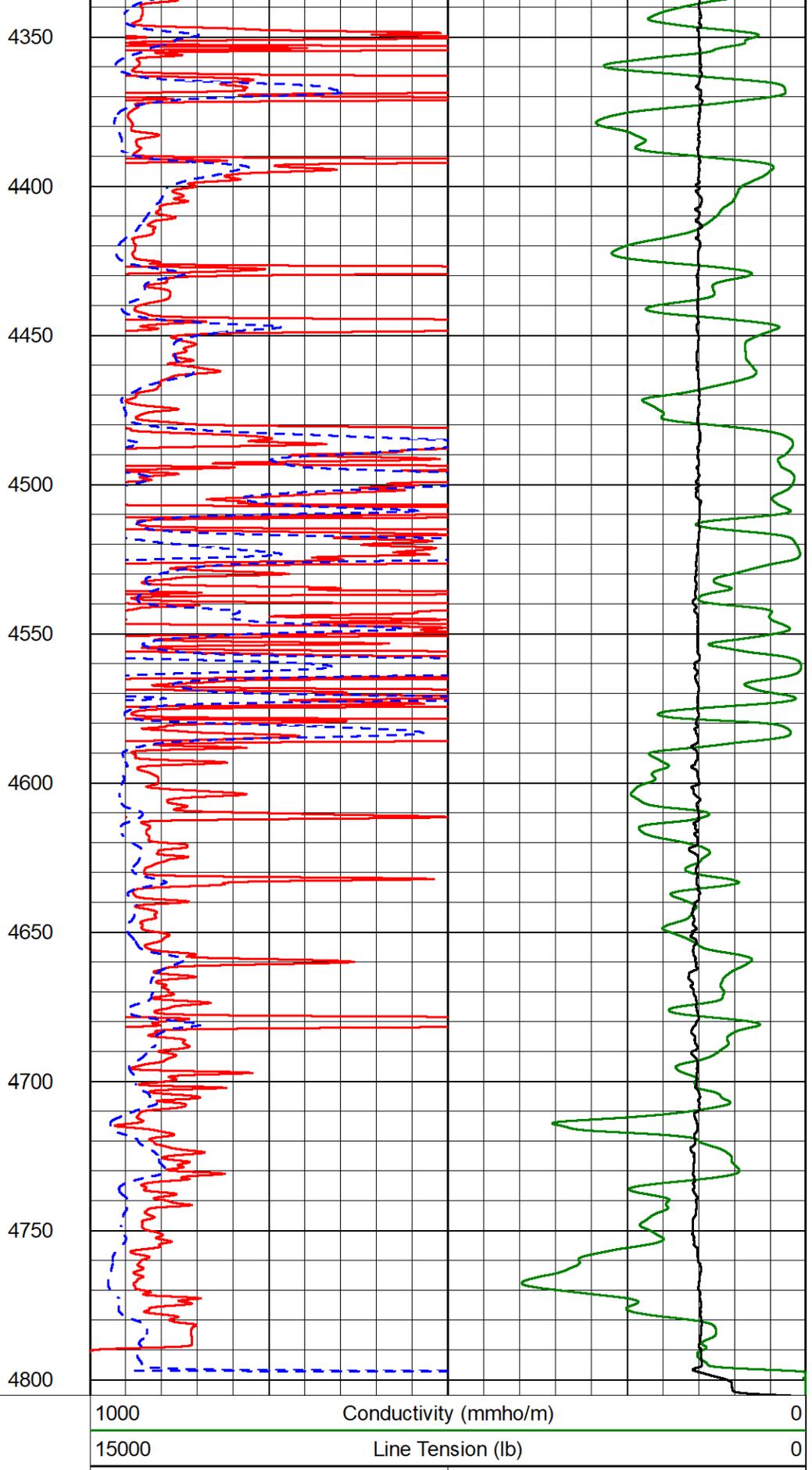
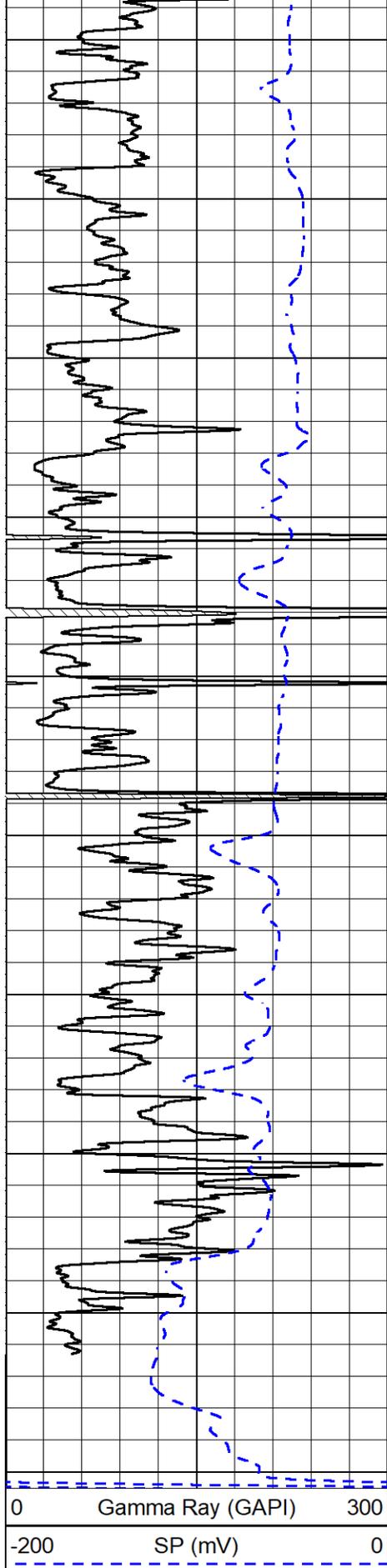




3250
3300
3350
3400
3450
3500
3550
3600
3650
3700
3750









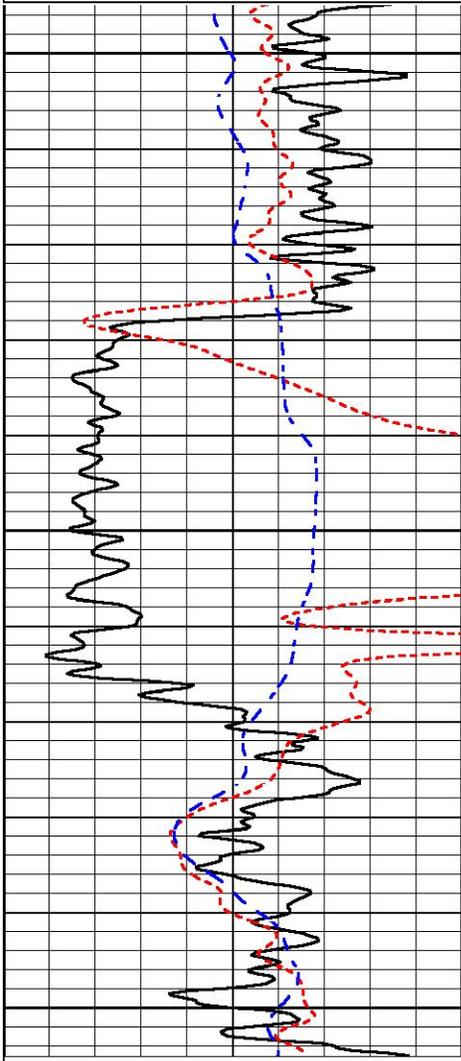
ANHYDRITE SECTION

MAIN PASS

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-160	RXORT	40
-200	SP (mV)	0

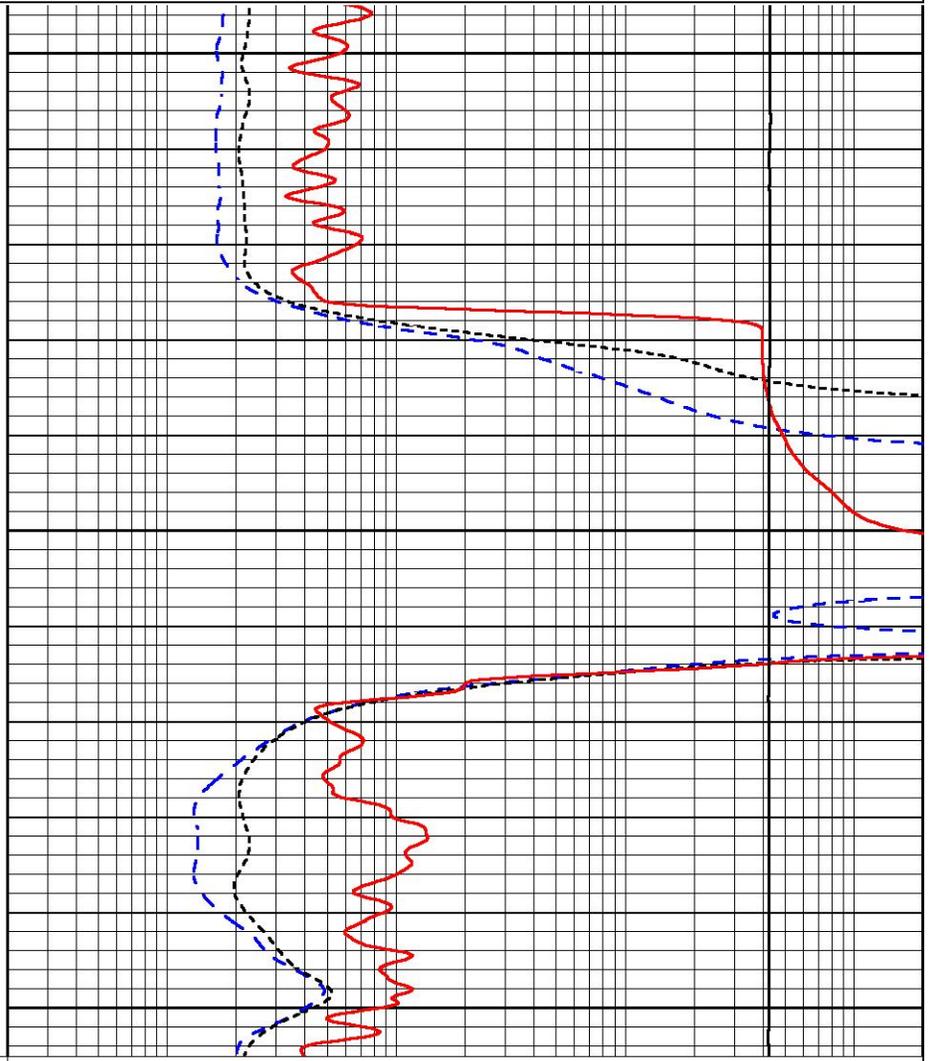
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0



2950

3000

3050



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



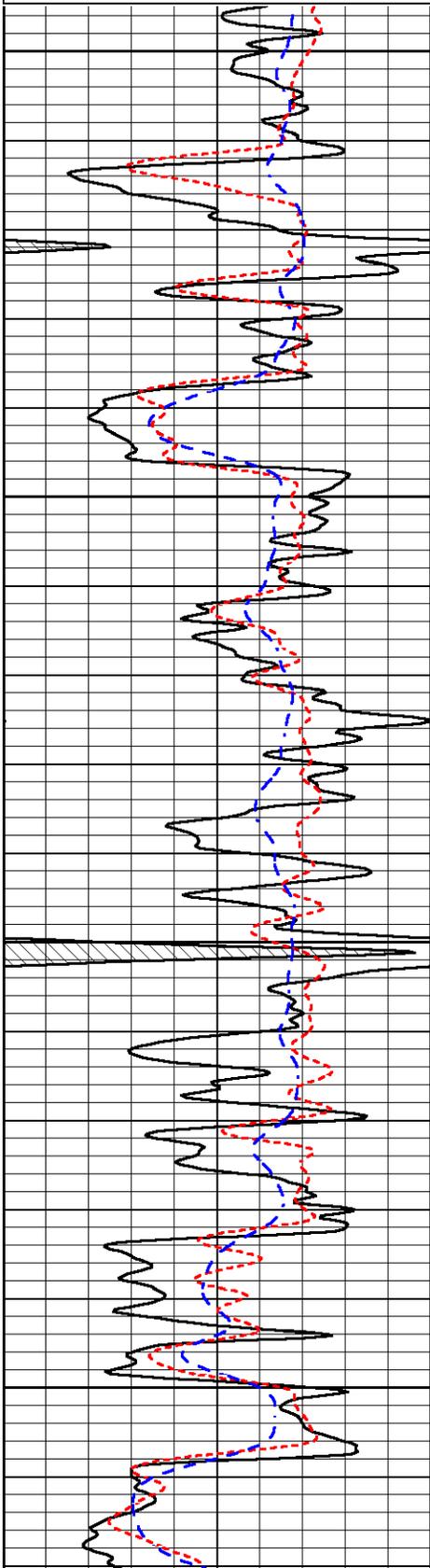
DETAIL SECTION

MAIN PASS

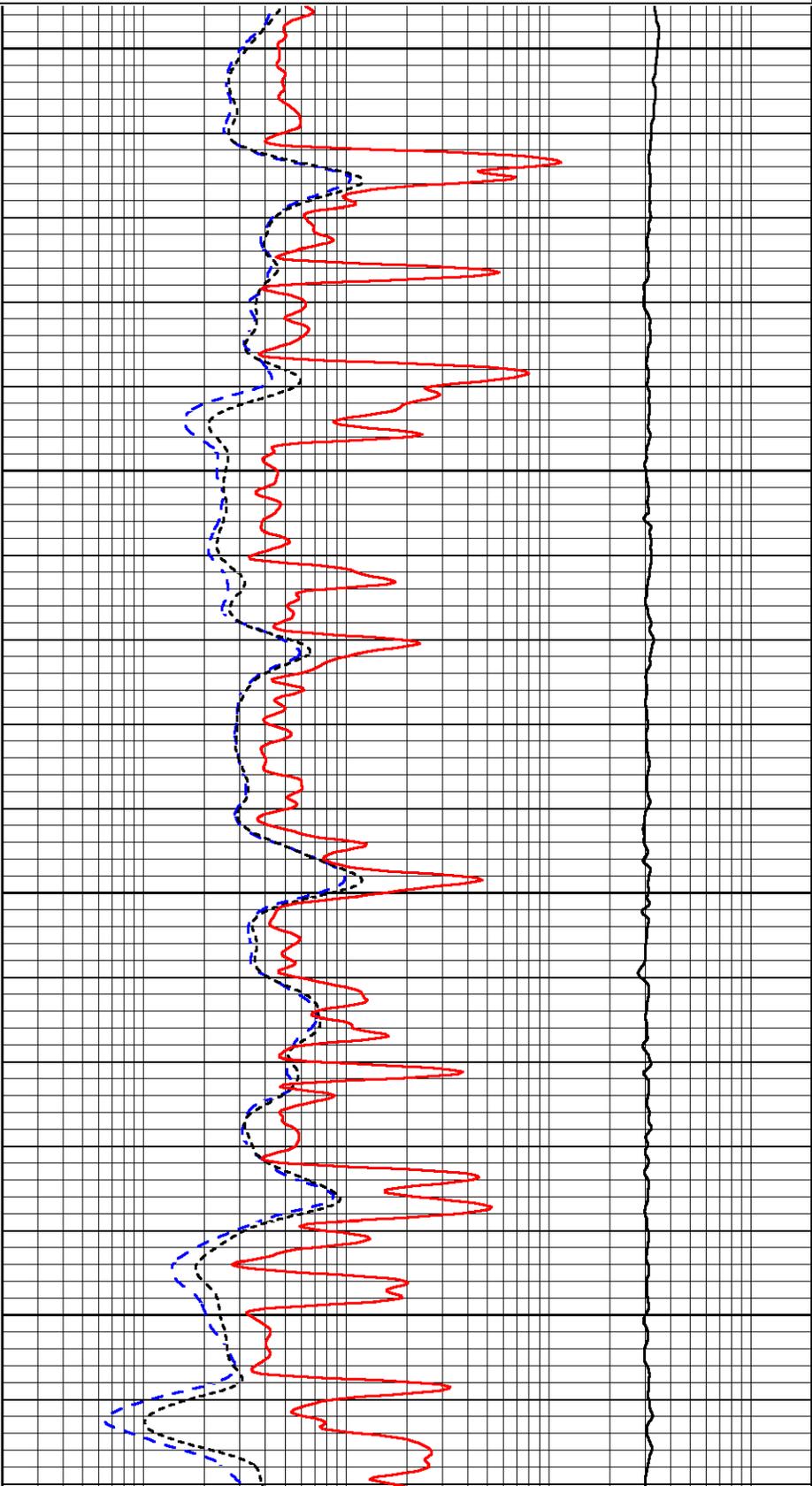
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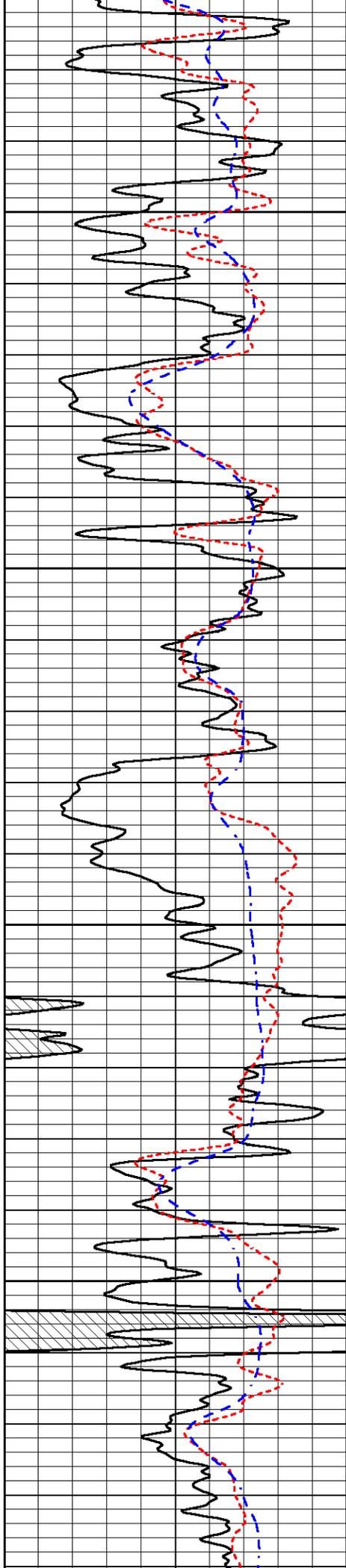
0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

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



3700
3750
3800
3850



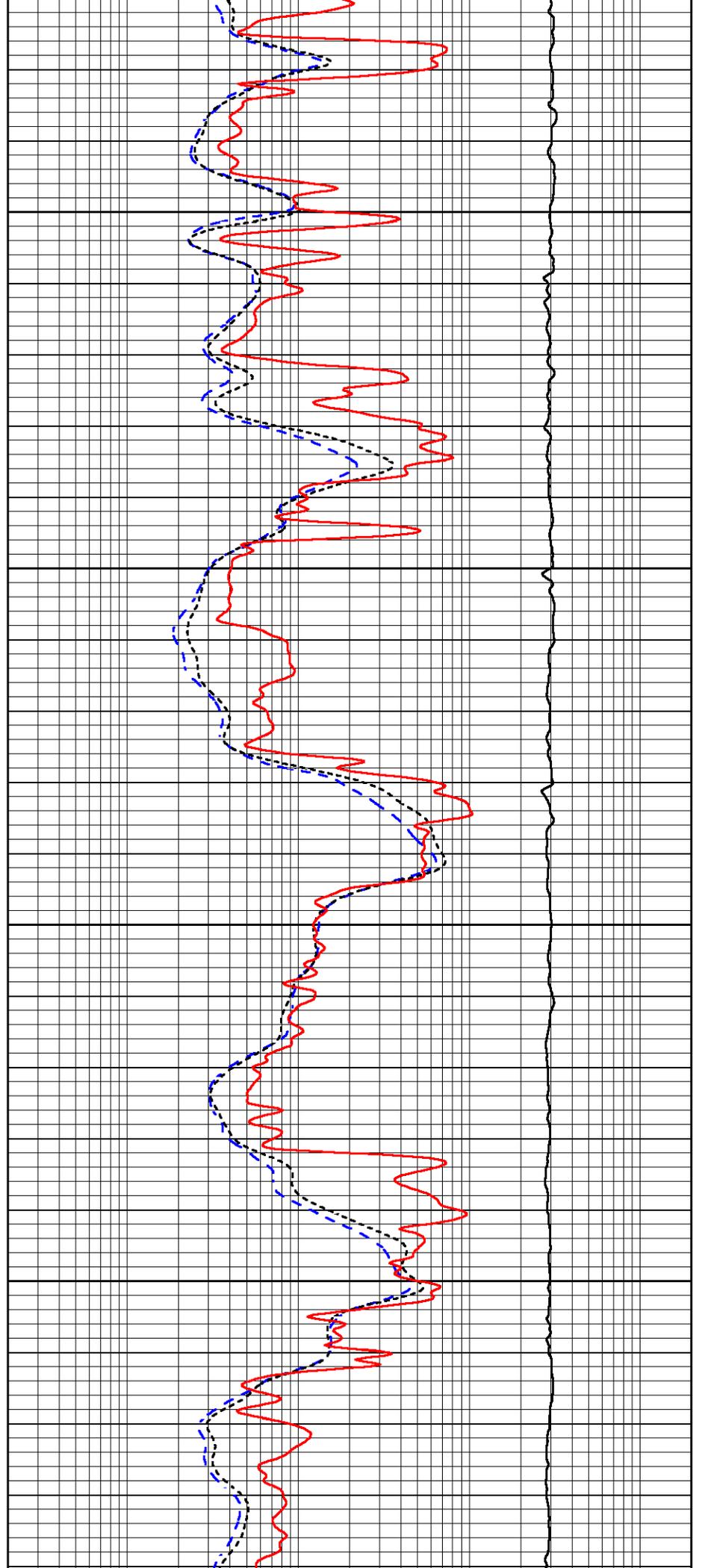


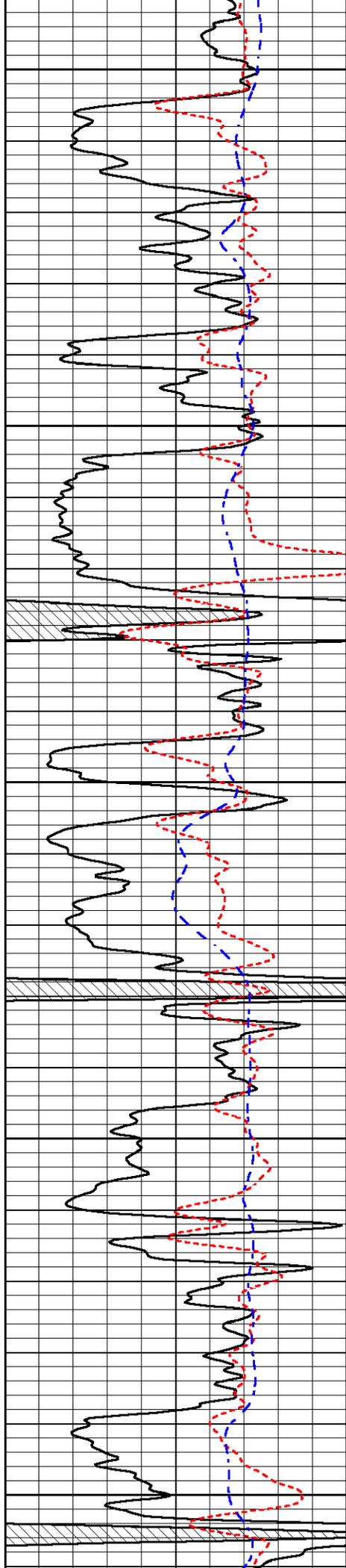
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3950

4000

4050





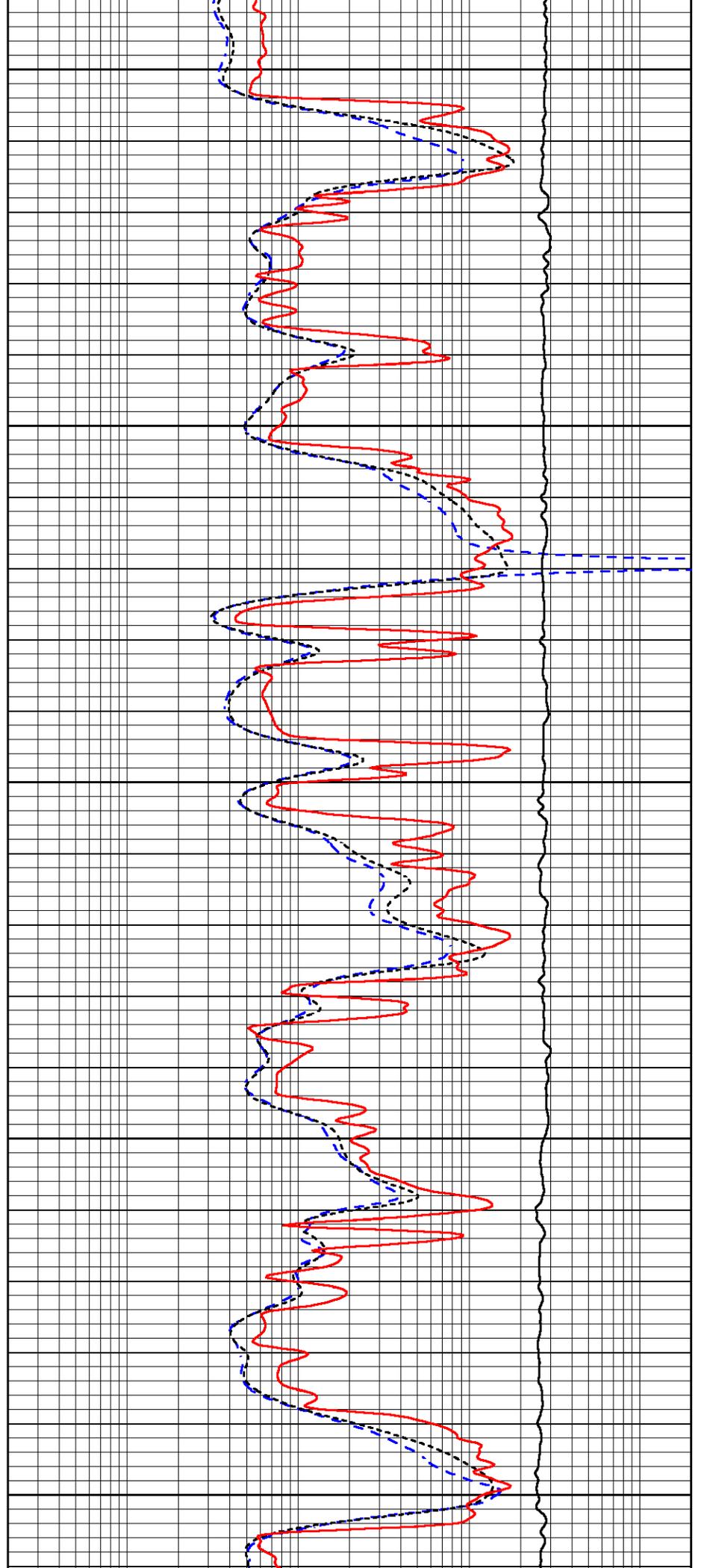
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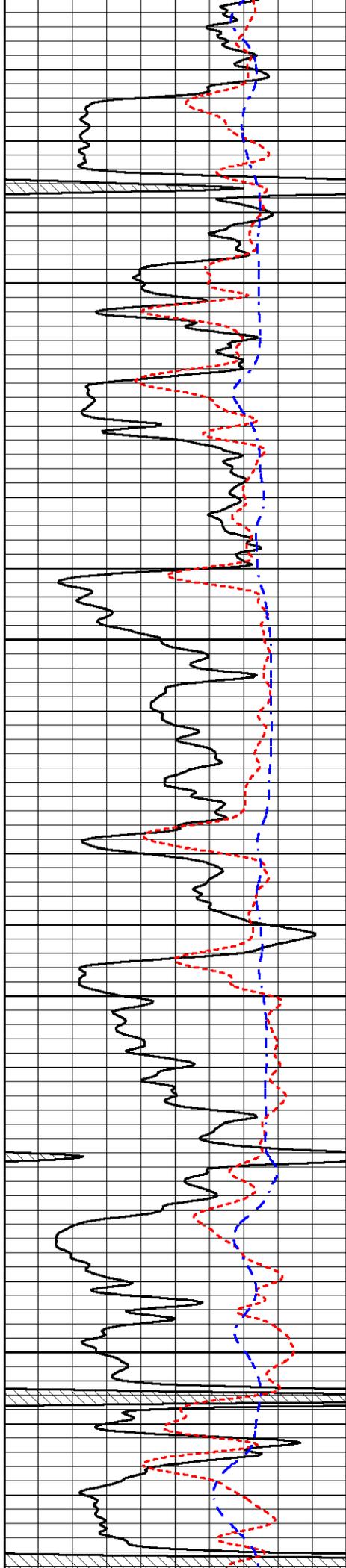
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4200

4250

4300



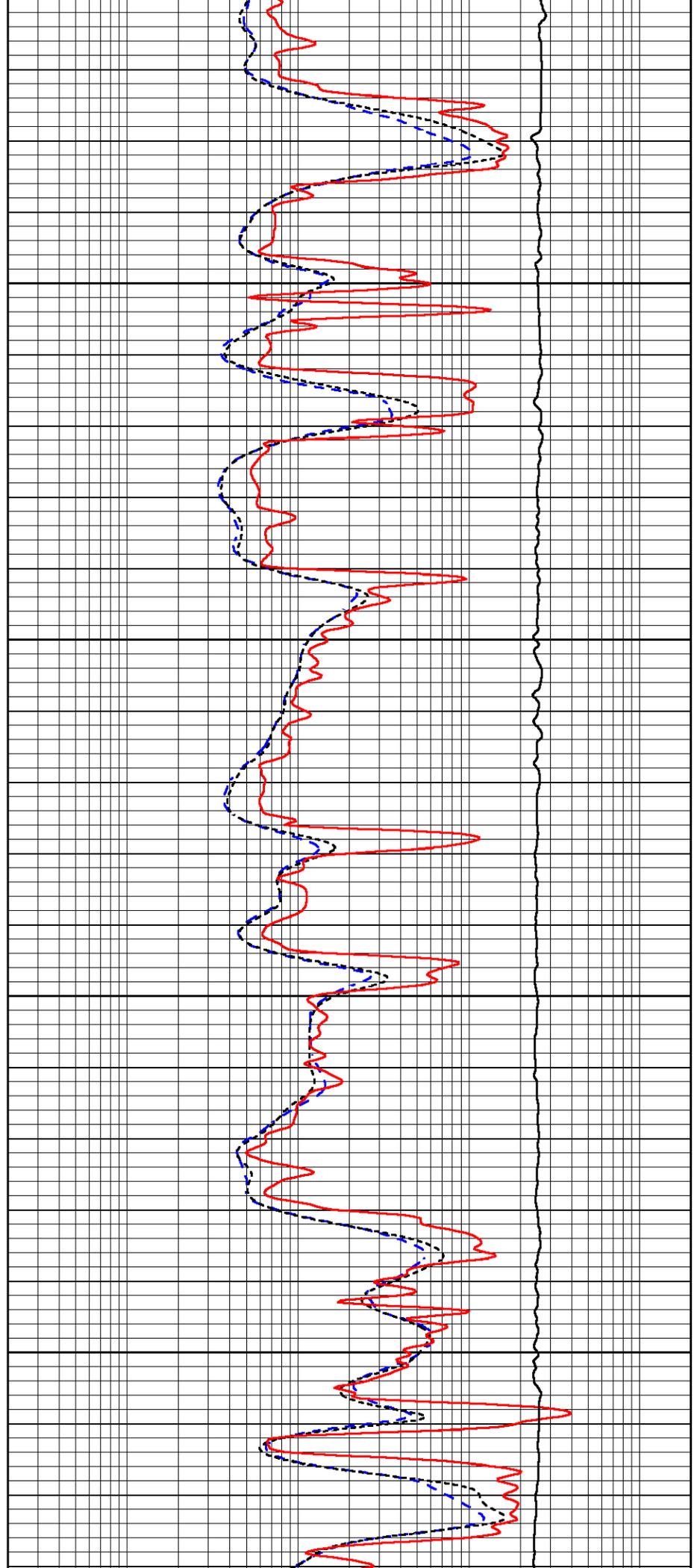


4350

4400

4450

4500

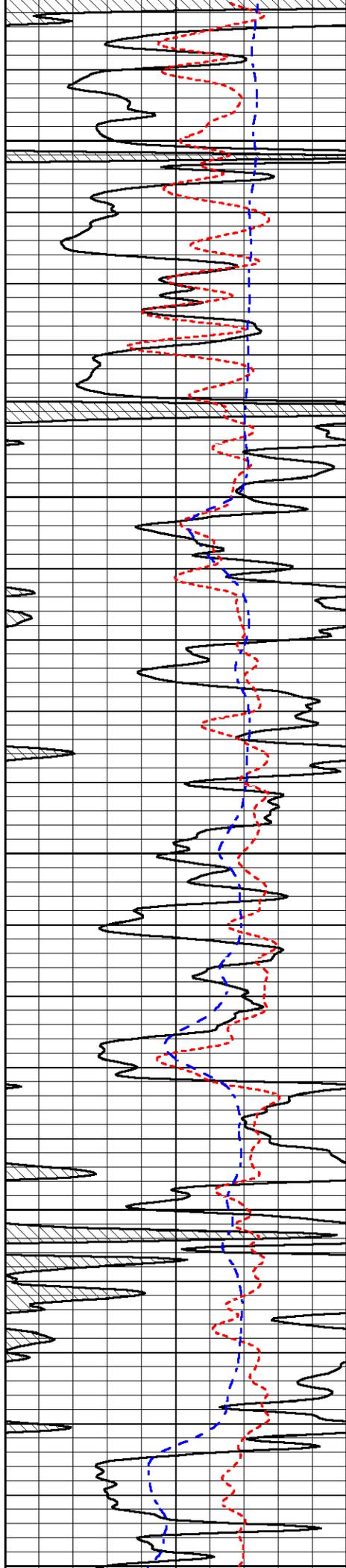


4350

4400

4450

4500



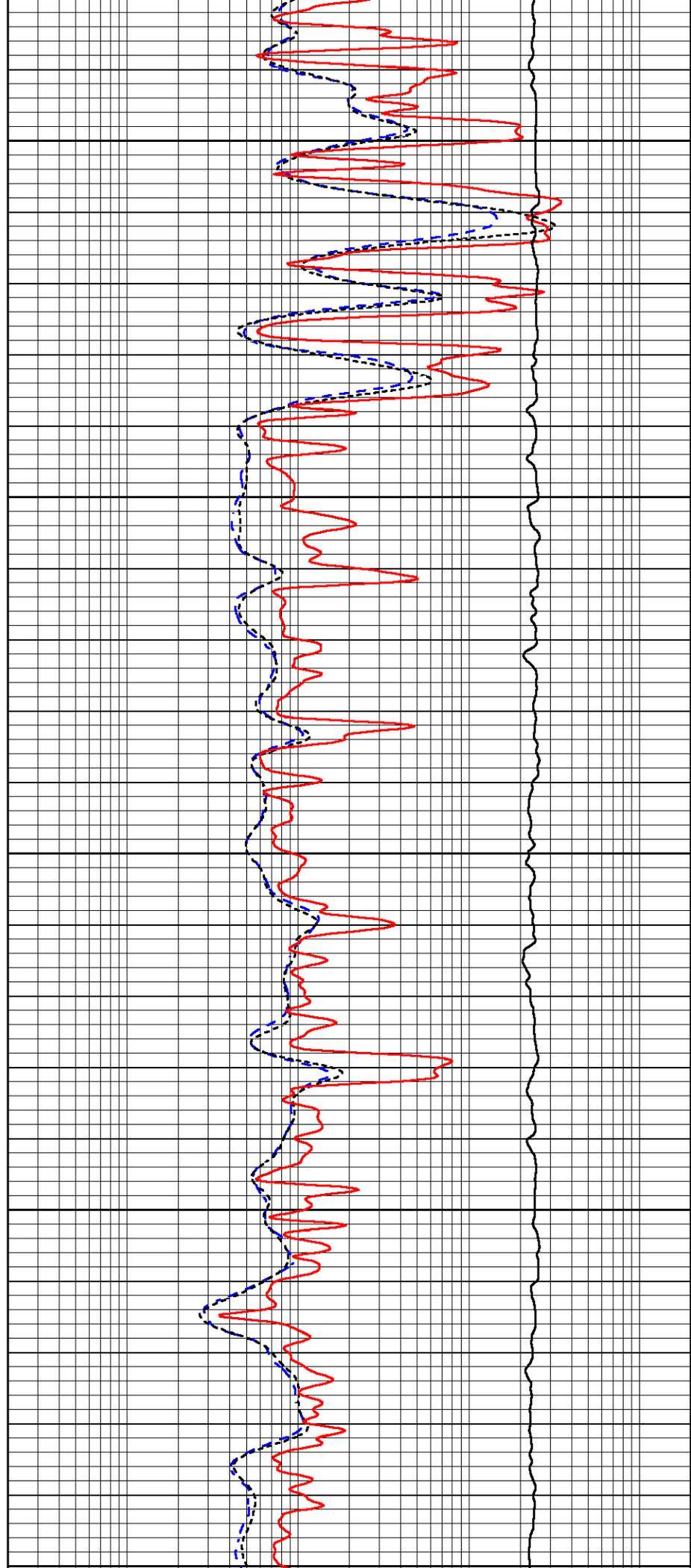
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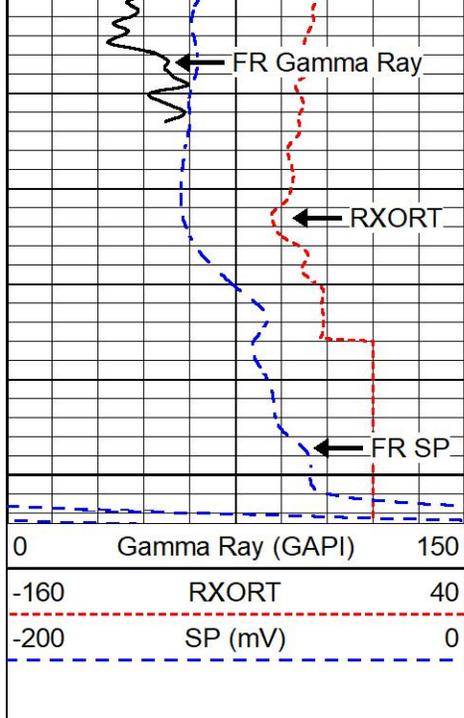
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4650

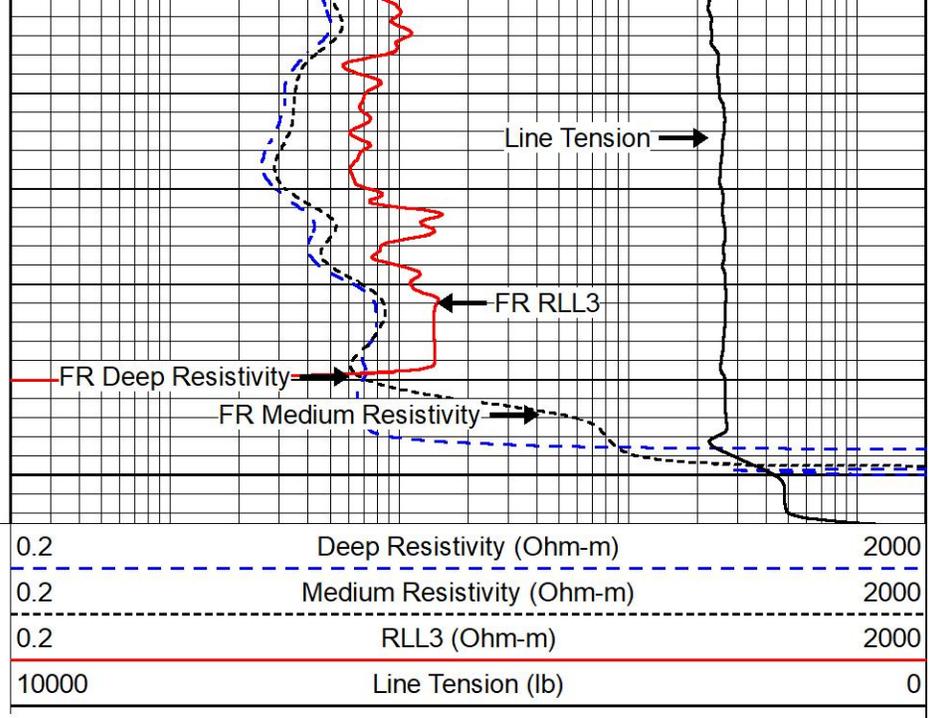
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4750





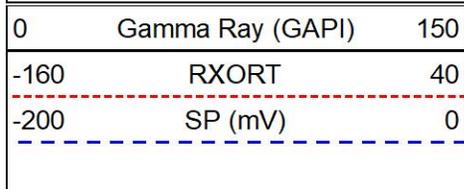
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4800



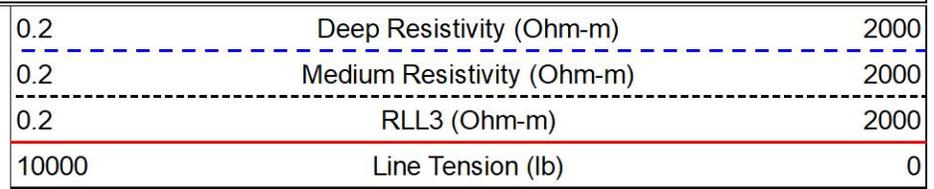
REPEAT SECTION

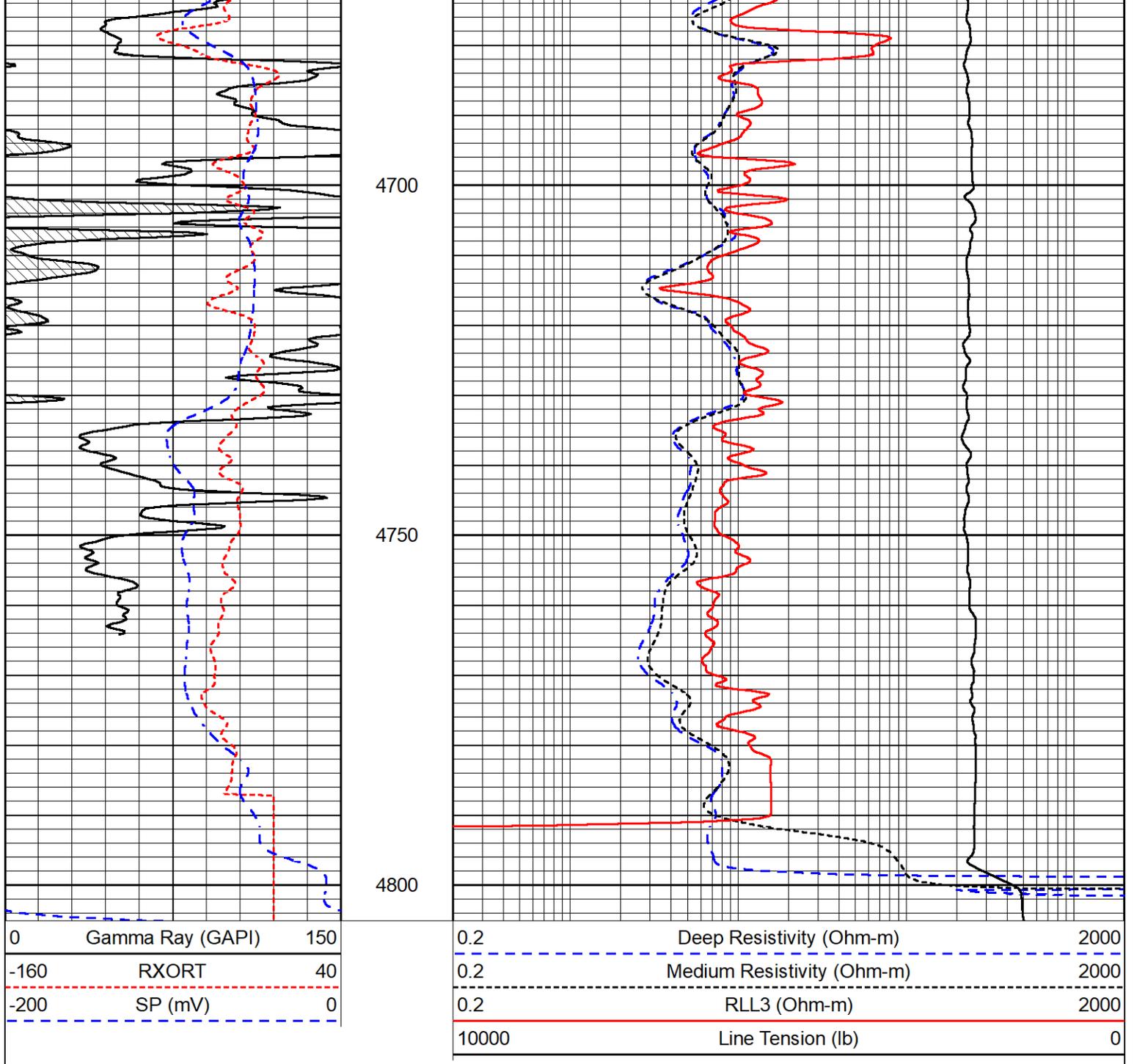
REPEAT PASS

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 Dataset Pathname stkml/pass2.1
 Presentation Format _dil
 Dataset Creation Thu Jun 16 02:47:35 2022
 Charted by Depth in Feet scaled 1:240



4600
4650





Calibration Report

Database File brito_johnson 1-9.db
 Dataset Pathname stkml/pass3.12
 Dataset Creation Thu Jun 16 02:44:13 2022

Dual Induction Calibration Report

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

Loop:	Readings		References		Results		
	Air	Loop	Air	Loop	m	b	
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-24.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-49.500

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	15000.0000	-0.8000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	12500.0000	0.0000
Caliper	1.0049	1.0846	5.5000	20.0000	in	165.0000	-162.1500

Compensated Density Calibration Report

Serial-Model: 304-04-M&W
 Source #: 21170B
 Master Calibration Performed: Sun May 29 09:31:45 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6392.84	8538.69	cps
Aluminum	2.685	g/cc	1184.69	5433.63	cps
Spine Angle = 74.99			Density/Spine Ratio = 0.533		
	Size		Reading		
Small Ring	4.00	in	1.15		
Large Ring	14.00	in	1.02		

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 Brito Oil Company, Inc.
Well Johnson #1-9



Field

County

State

Rawlins

Kansas