

DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Griffin Management, LLC
Well Madelyn #2 OWWO
Field Turkey Creek East
County Barber
State Kansas

Company Griffin Management, LLC
Well Madelyn #2 OWWO
Field Turkey Creek East
County Barber State Kansas

Location: API #: 15-007-21982-00-01

324 FSL & 973 FEL

SEC 16 TWP 30S RGE 15W

Permanent Datum Ground Level Elevation 1876
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL
Elevation
K.B. 1881
D.F.
G.L. 1876

Date 7/19/2024

Run Number	One		
Depth Driller	4878		
Depth Logger	4876		
Bottom Logged Interval	4875		
Top Log Interval	950		
Casing Driller	8.625 @ 984		
Casing Logger	975		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6000		
Density / Viscosity	8.7 58		
pH / Fluid Loss	10.0 10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.30 @ 72		
Rmt @ Meas. Temp	0.23 @ 72		
Rmc @ Meas. Temp	0.41 @ 72		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.17 @ 125		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	125		
Equipment Number	110		
Location	HAYS		
Recorded By	D. Schmidt		
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,
South to 110, 1 East,
South to location

Log Measured From: Kelly Bushing

5 Ft. Above Permanent Datum

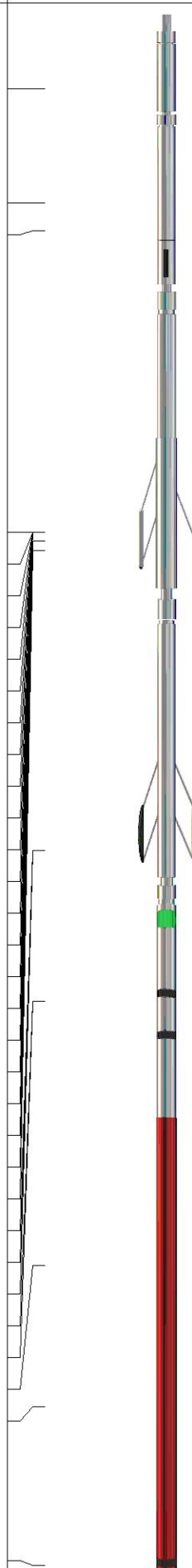
THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Eli Felts
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.23		GR-M&W (105)	3.00	3.50	50.00	
CNLSC CNSSC	37.13 36.38		CNT-M&W (210)	5.00	3.50	100.00	
			MWLith-STEP LITHO Short (703-03)	8.40	5.00	250.00	
LCAL	28.21		ML-PSI STKBL ML (402)		7.58	4.00	65.00
LLW8N	28.21						
LLW7N	28.21						
LLW6N	28.21						
LLW5N	28.21						
LLW4N	28.21						
LLW3N	28.21						
LLW2N	28.21						
LLW1N	28.21						
LSLOCK	27.96						
LLLOCK	27.96						
PELTMPR	27.96		DIL-M&W (506)		18.25	3.50	220.00
LSHVNG	27.96						
LLHVNG	27.96						
LSW8N	27.71						
LSW7N	27.71						
LSW6N	27.71						
LSW5N	27.71						
LSW4N	27.71						
LSW3N	27.71						
LSW2N	27.71						
LSW1N	27.71						
MCAL	19.58						
MI	19.58						
MN	19.58						
RLL3F	15.50						
RLL3	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						

Dataset: griffin_madelyn 2 owwo.db: field/well/stkml/pass3.1
Total length: 42.23 ft
Total weight: 685.00 lb
O.D.: 5.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_madelyn 2 owwo.db
Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 125	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m 4	mmho/m -0.5	mV 170	degF 70	Off	ft 4876

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

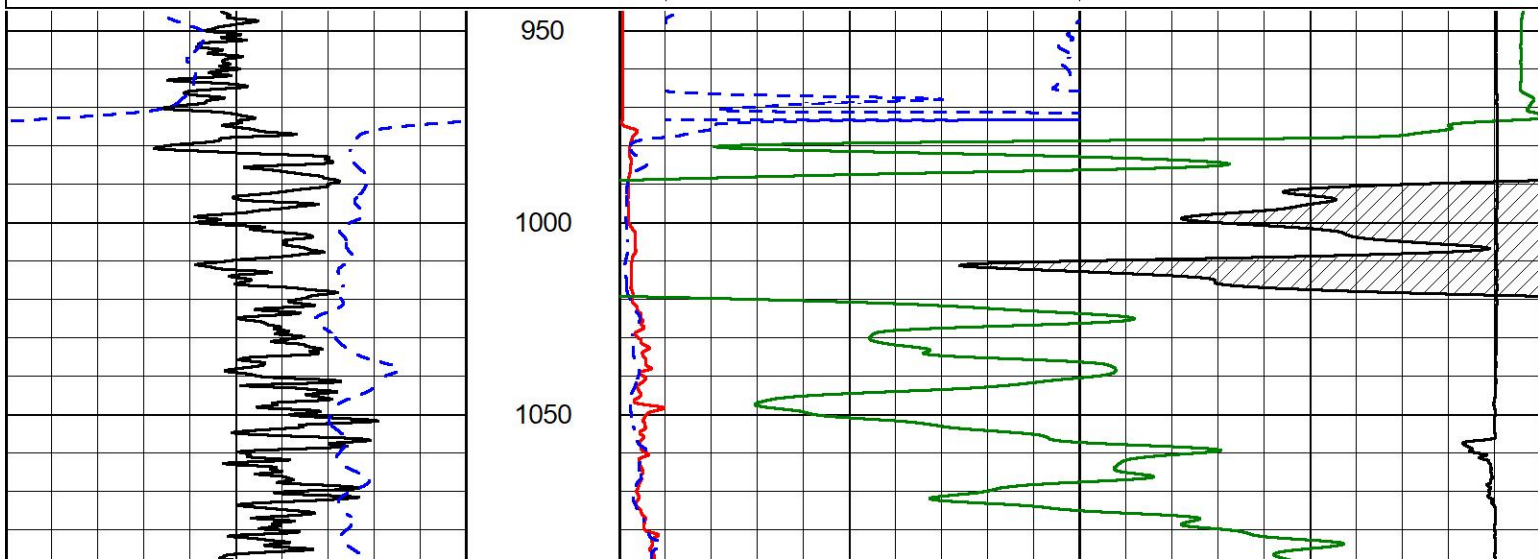


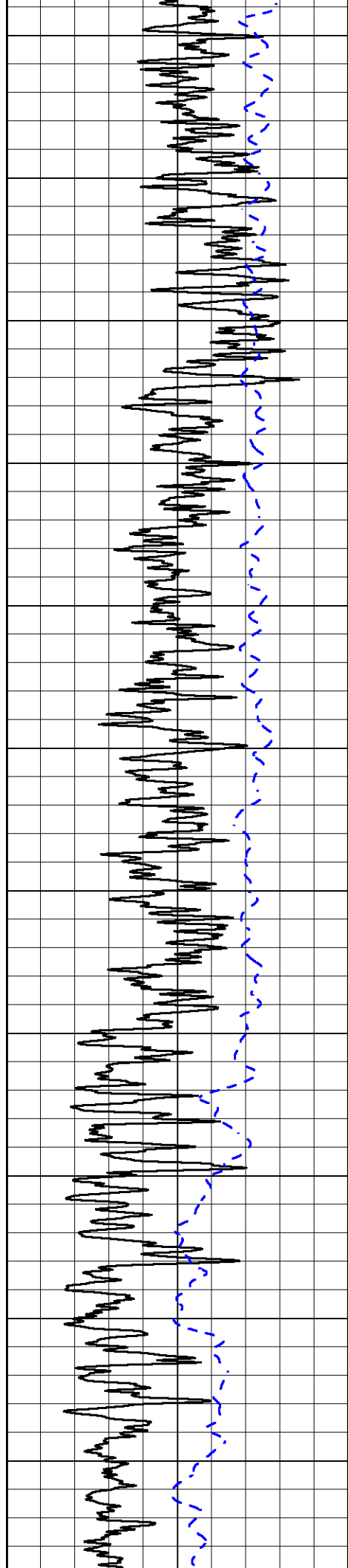
2" SCALE RESISTIVITY

MAIN PASS

Database File griffin_madelyn 2 owwo.db
Dataset Pathname stkml/pass3.3
Presentation Format _dil2in
Dataset Creation Fri Jul 19 06:12:30 2024
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	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
			Shallow Resistivity		
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200





1100

1150

1200

1250

1300

1350

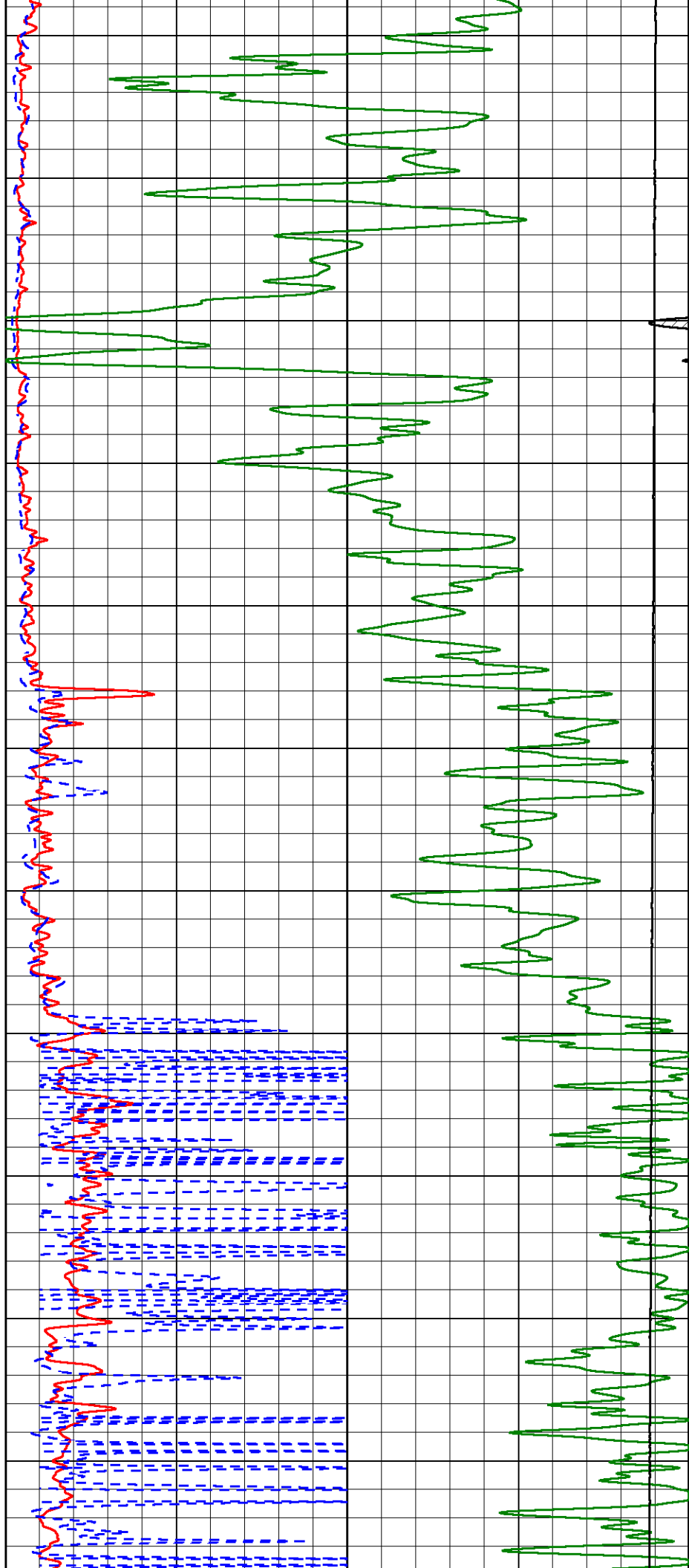
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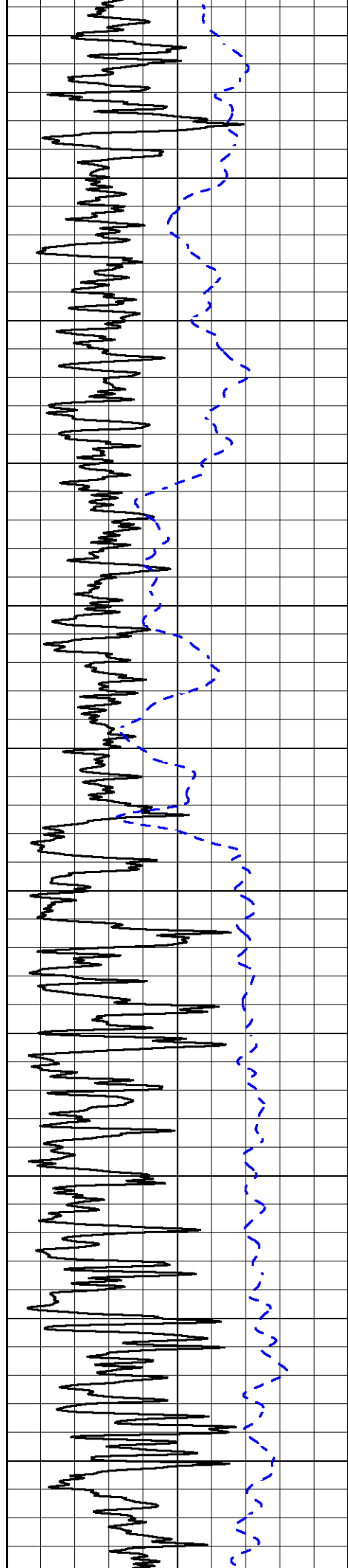
1450

1500

1550

1600





1650

1700

1750

1800

1850

1900

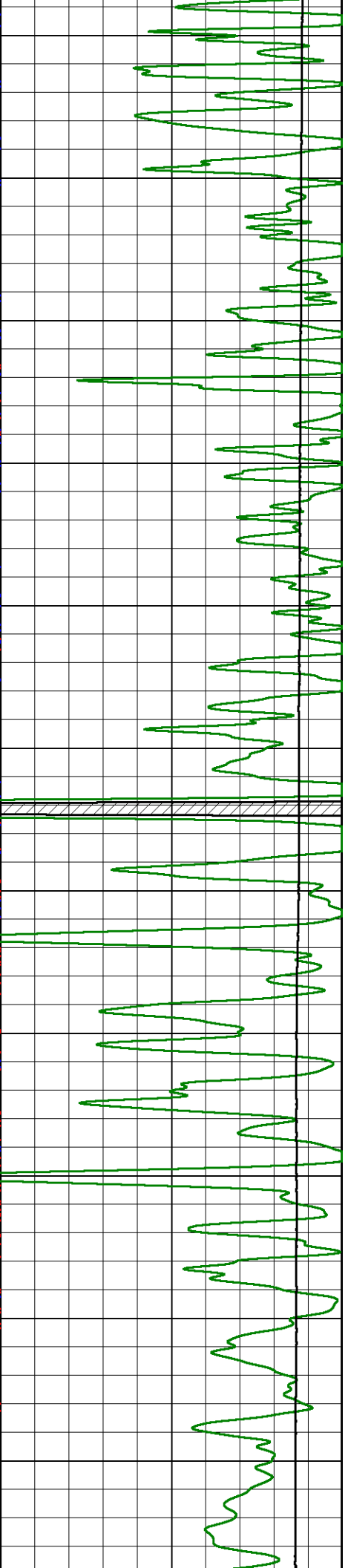
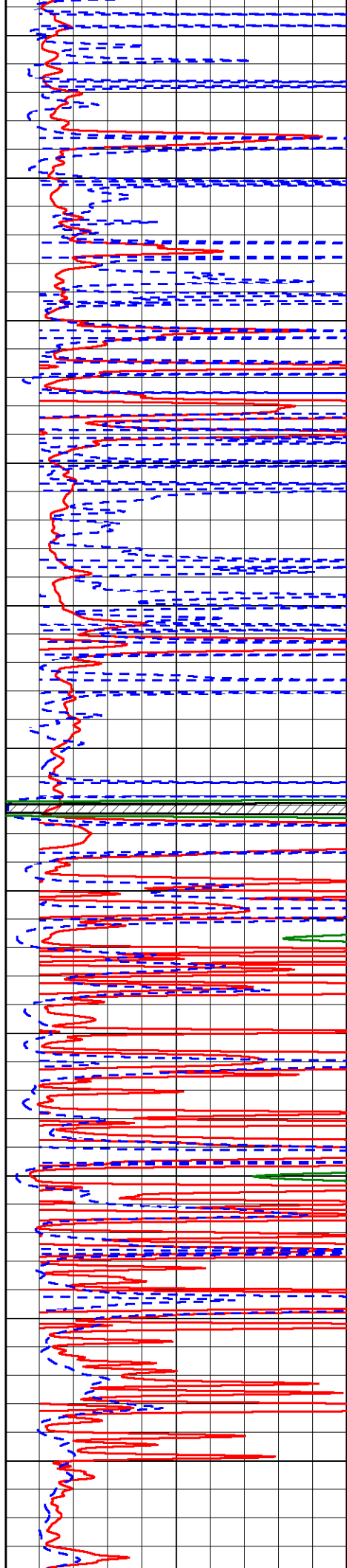
1950

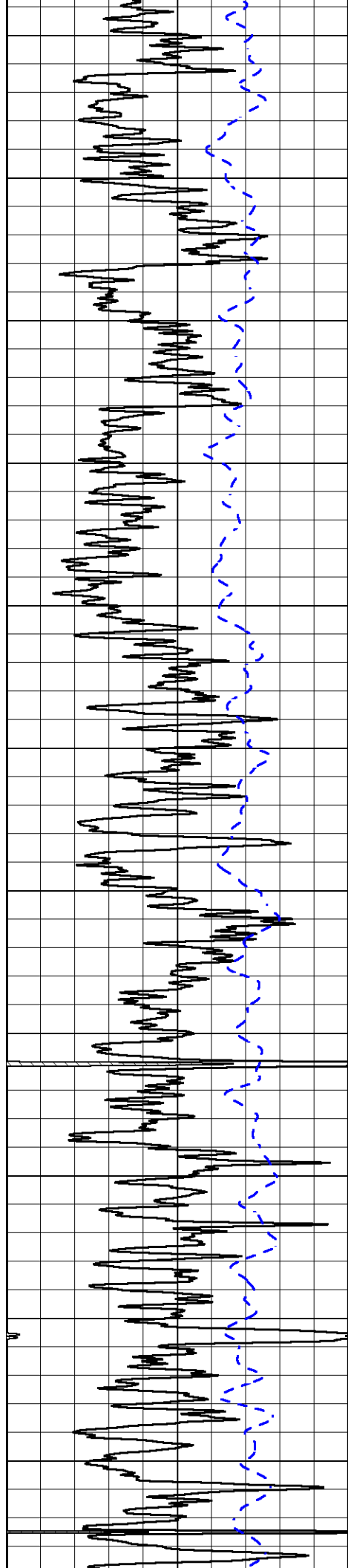
2000

2050

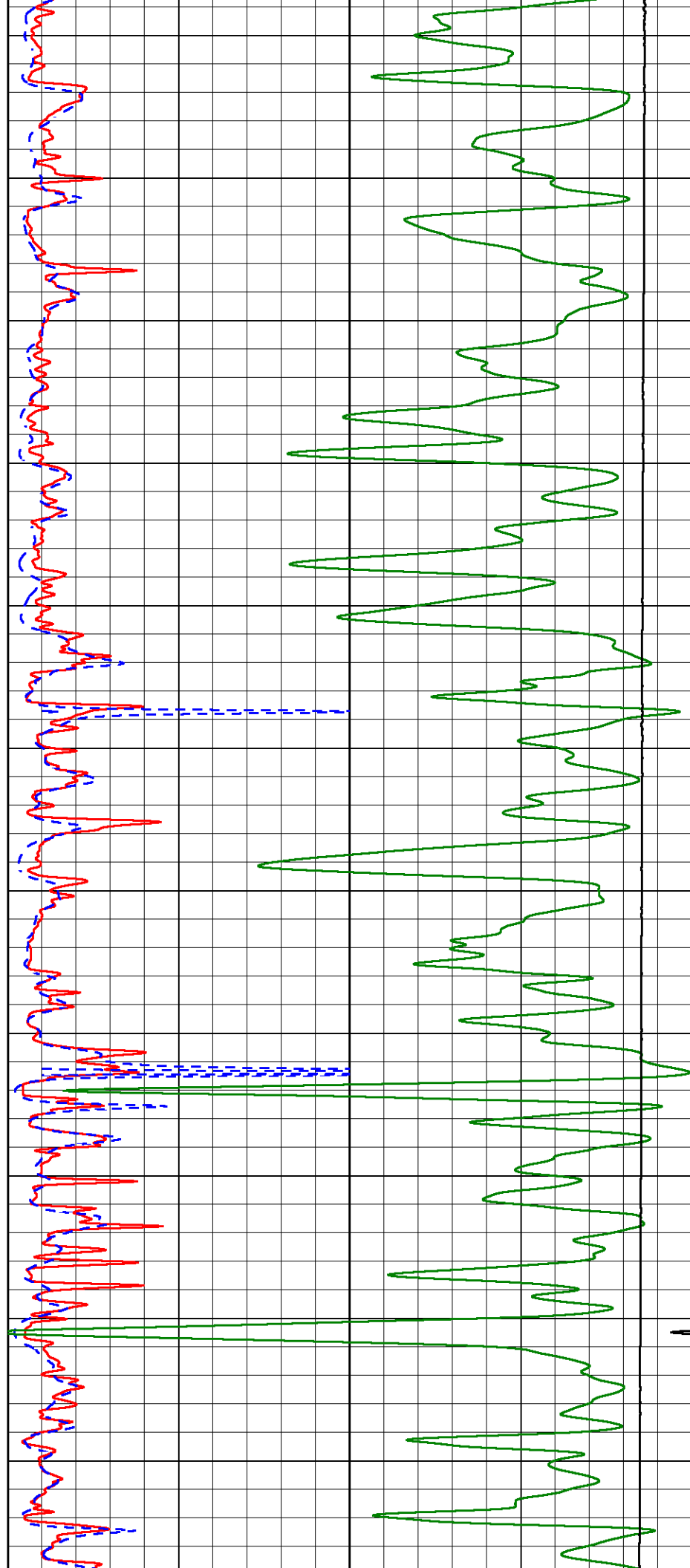
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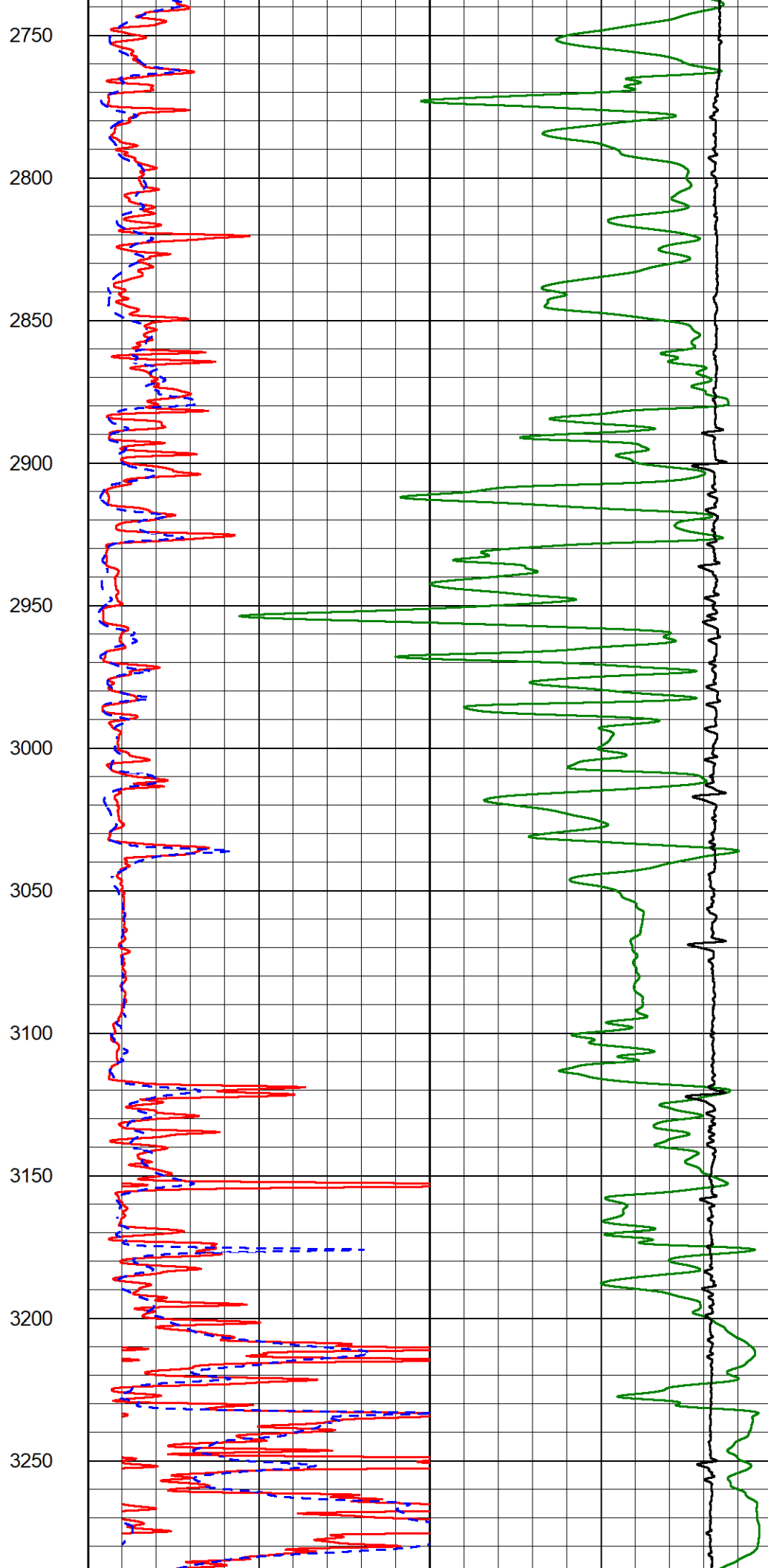
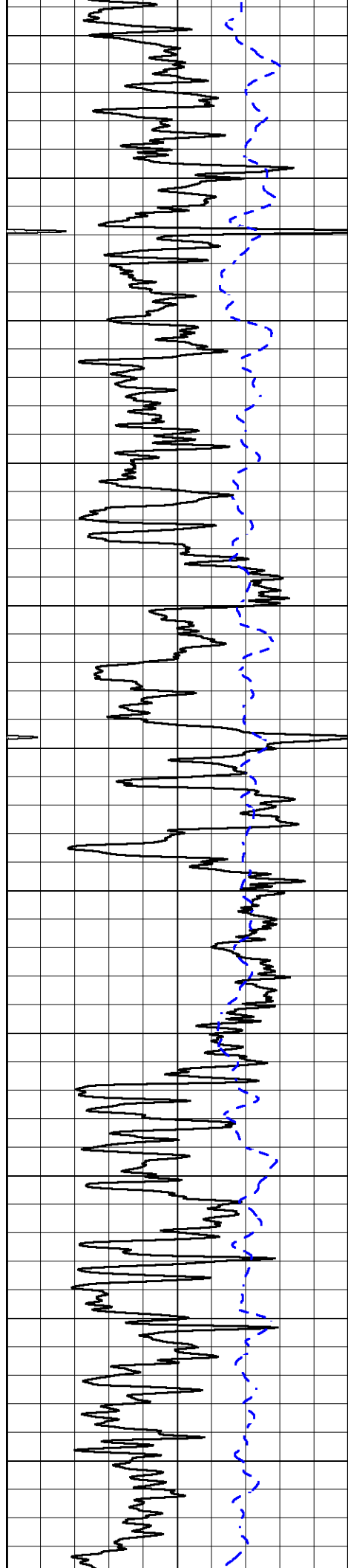
2150

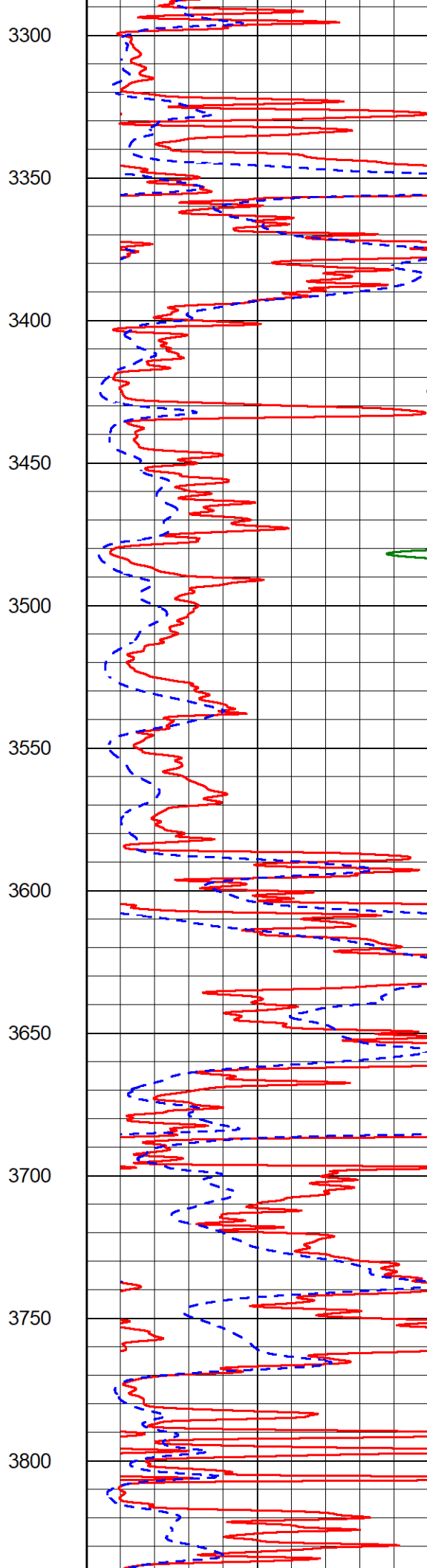
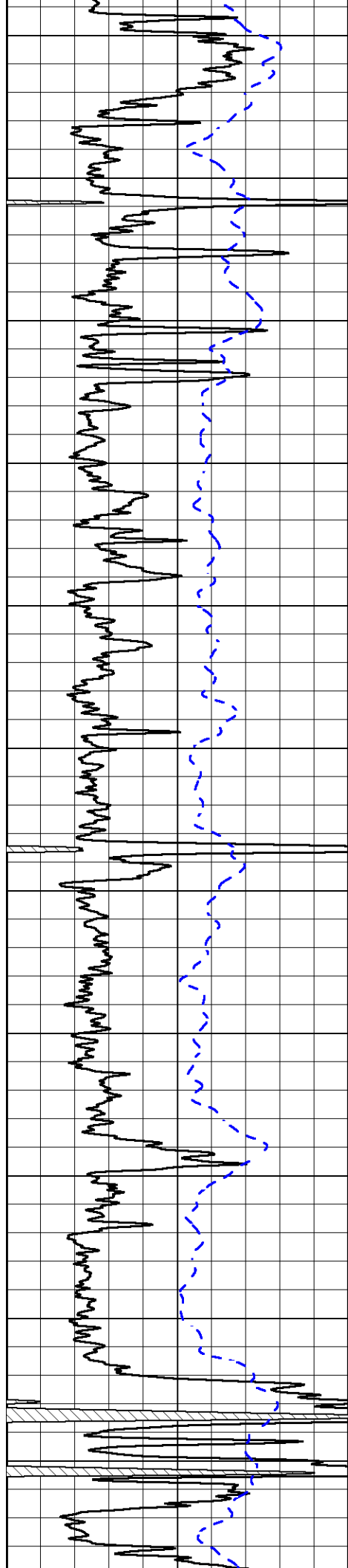


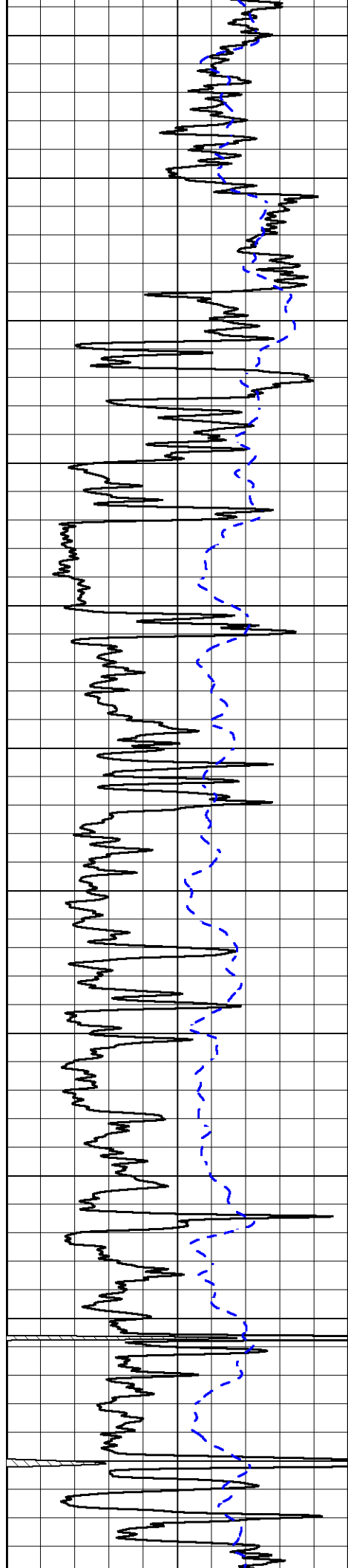


2200
2250
2300
2350
2400
2450
2500
2550
2600
2650
2700









3850

3900

3950

4000

4050

4100

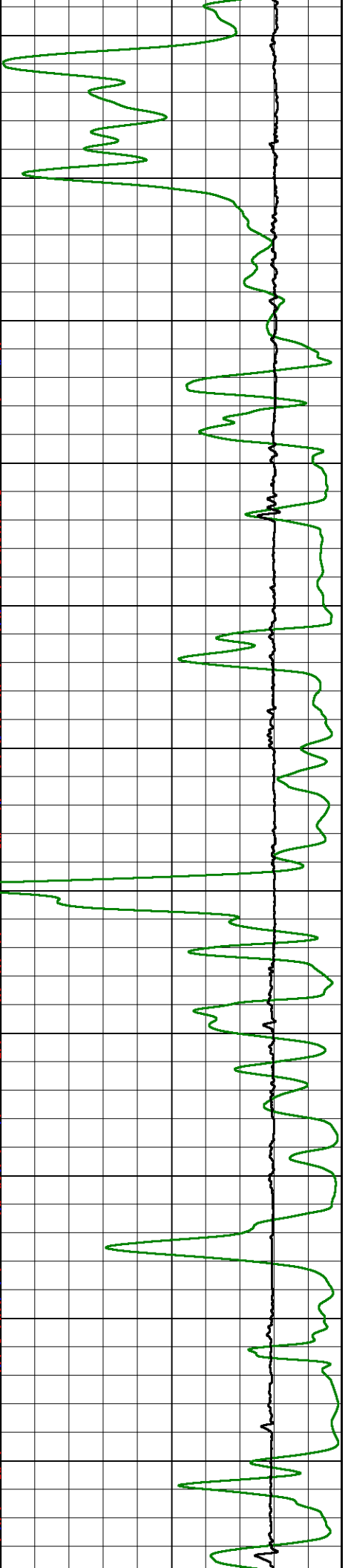
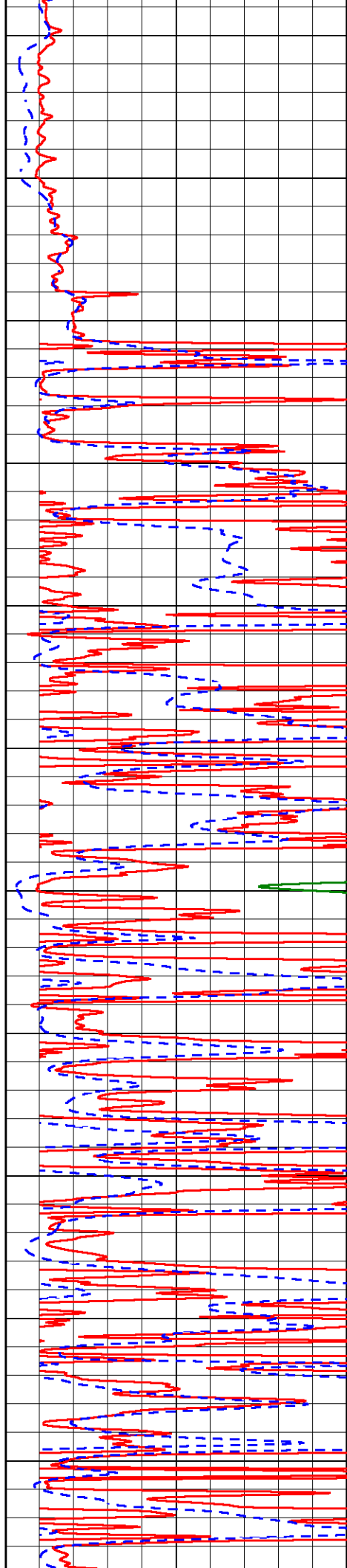
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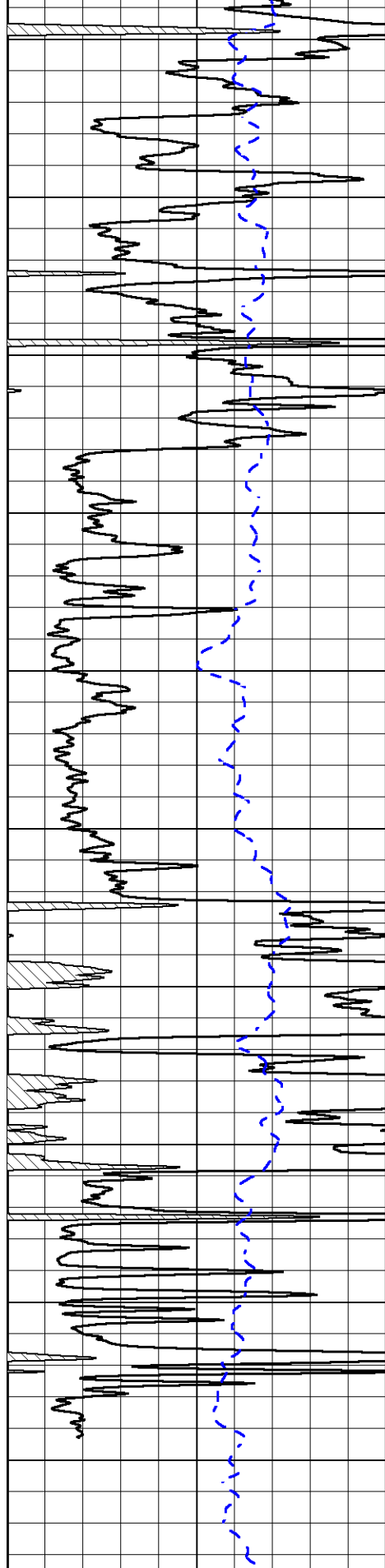
4200

4250

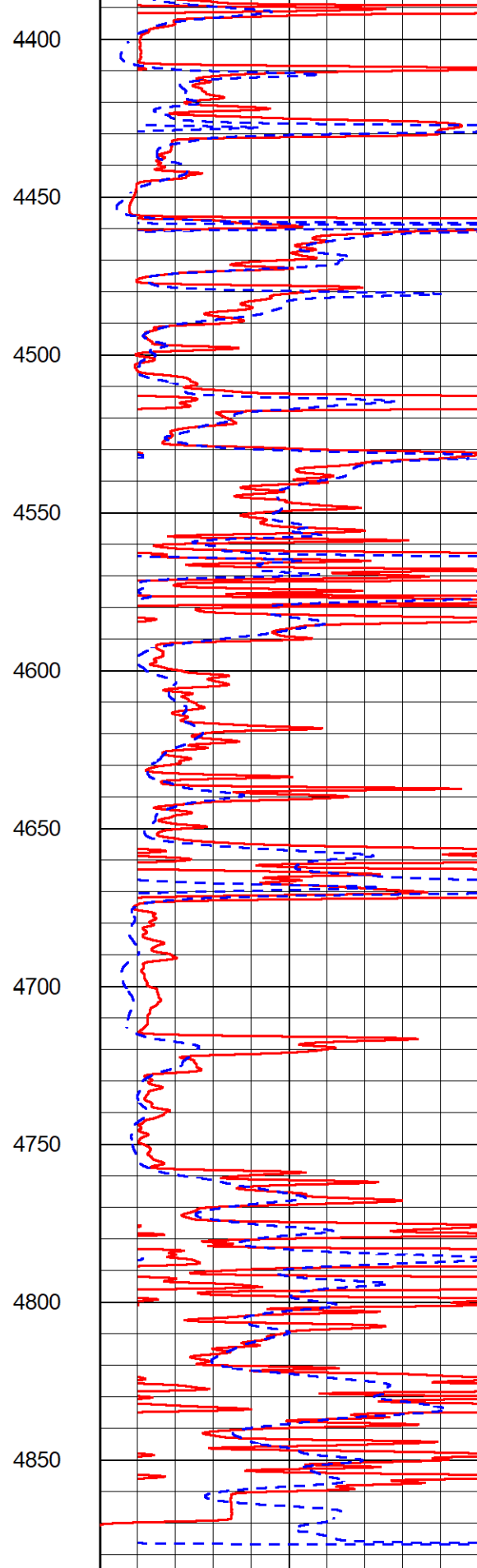
4300

4350

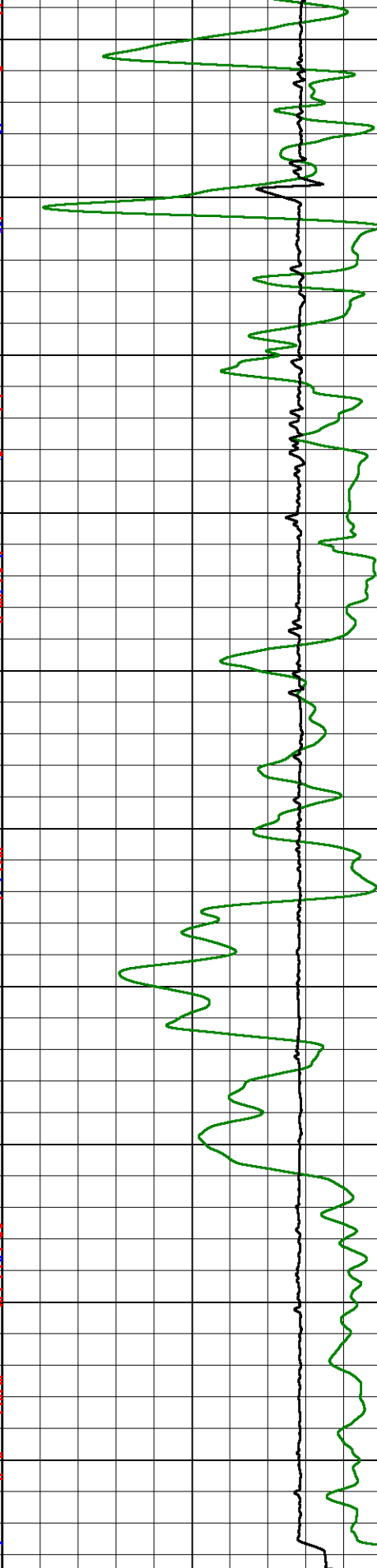




0 Gamma Ray (GAPI) 150
-200 SP (mV) 0



1000 Conductivity (mmho/m) 15000
0 Line Tension (lb) 50



0 Shallow Resistivity (Ohm-m) 50
0 Deep Resistivity (Ohm-m) 50

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



DETAIL SECTION MAIN PASS

Database File

griffin_madelyn 2 owwo.db

Dataset Pathname

stkml/pass3.1

Presentation Format

_dil

Dataset Creation

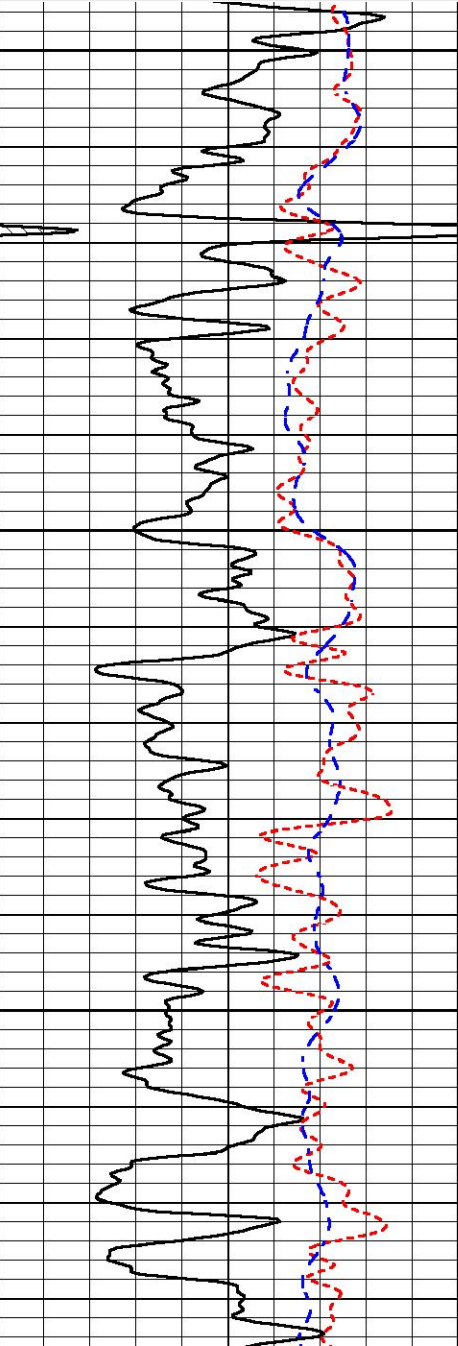
Fri Jul 19 06:05:42 2024

Charted by

Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

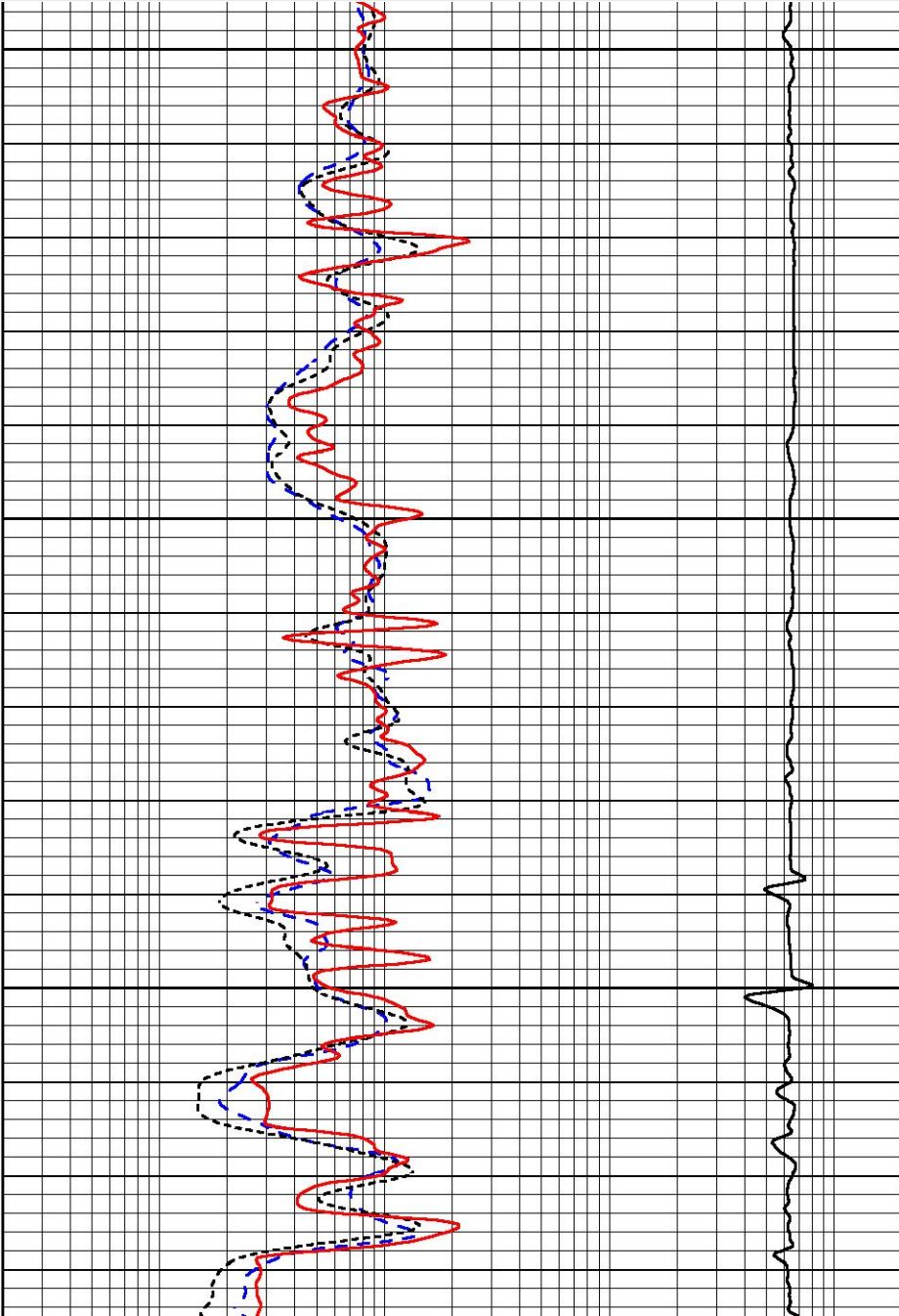
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

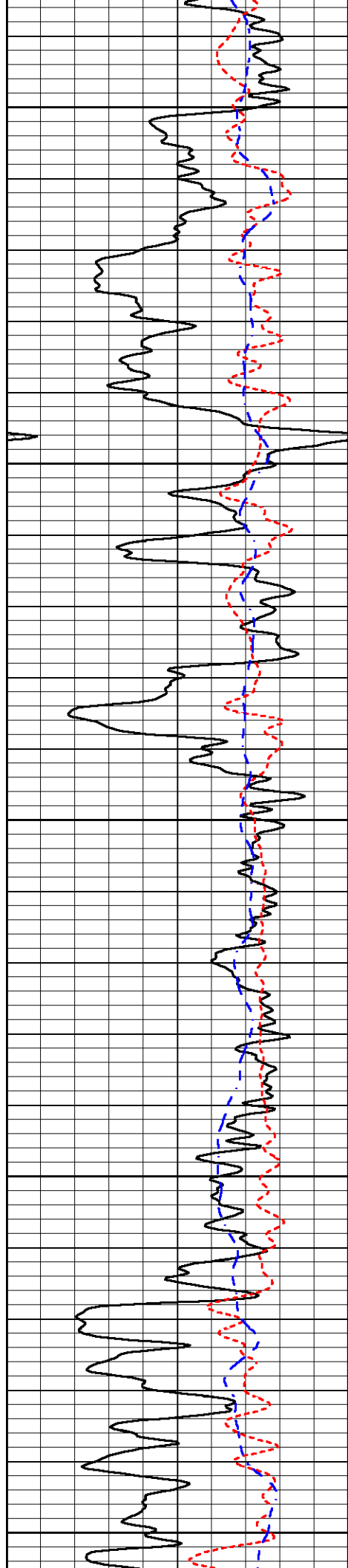


2800

2850

2900





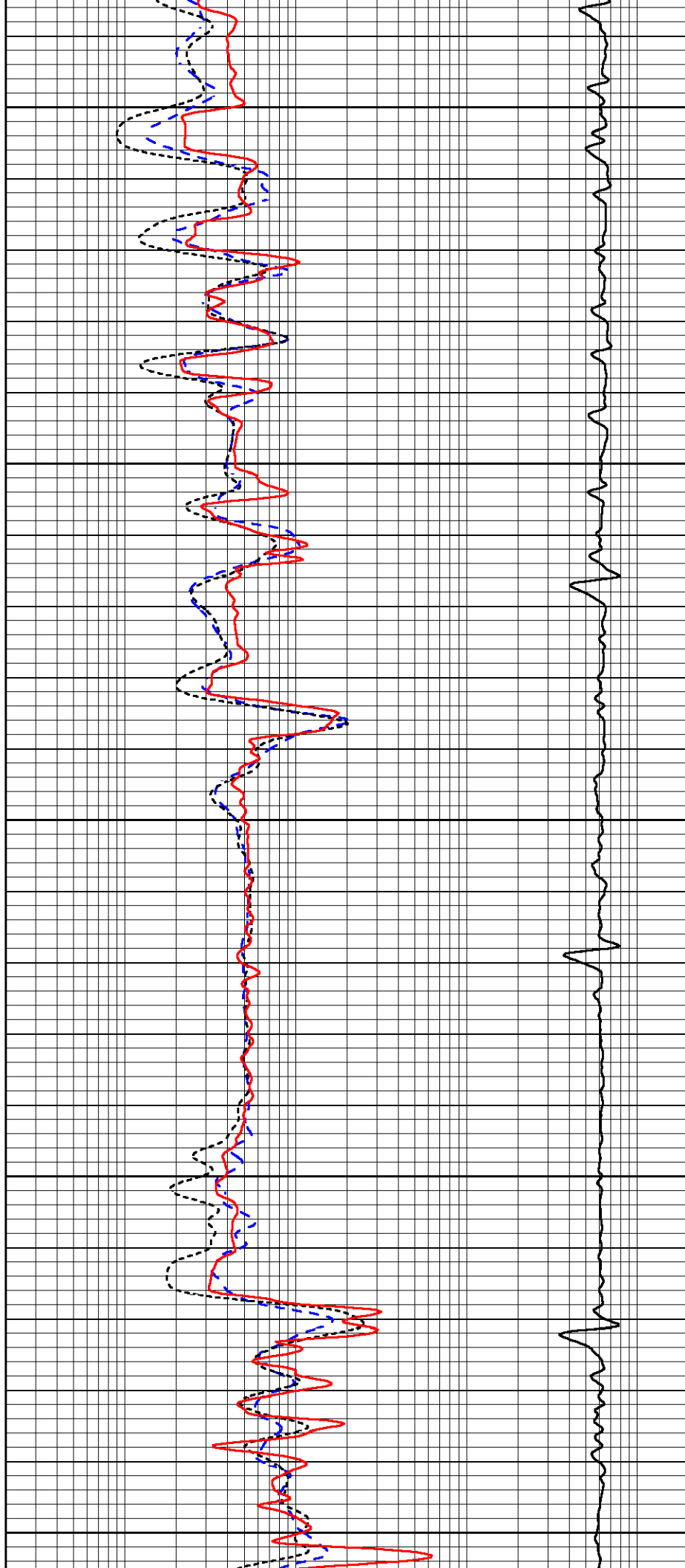
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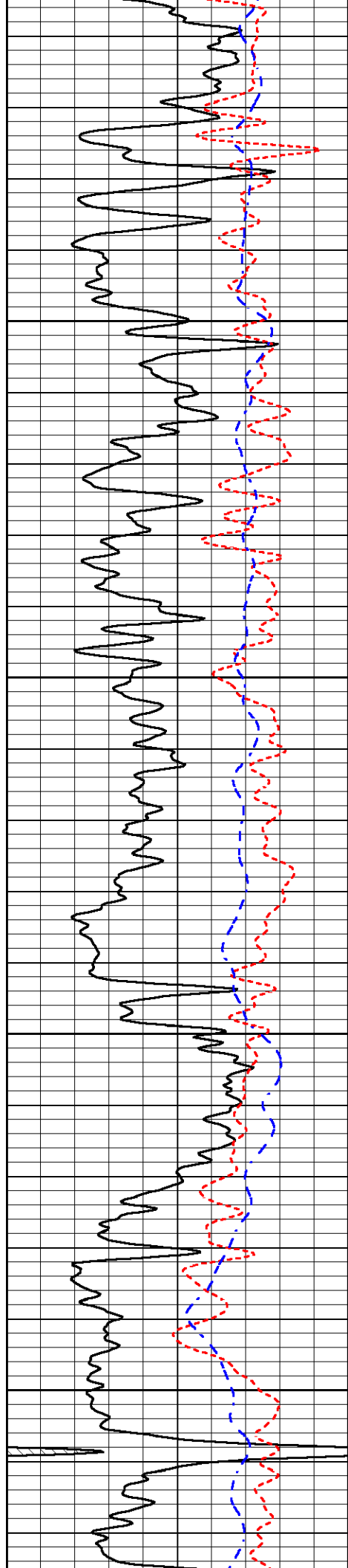
3000

3050

3100

3150



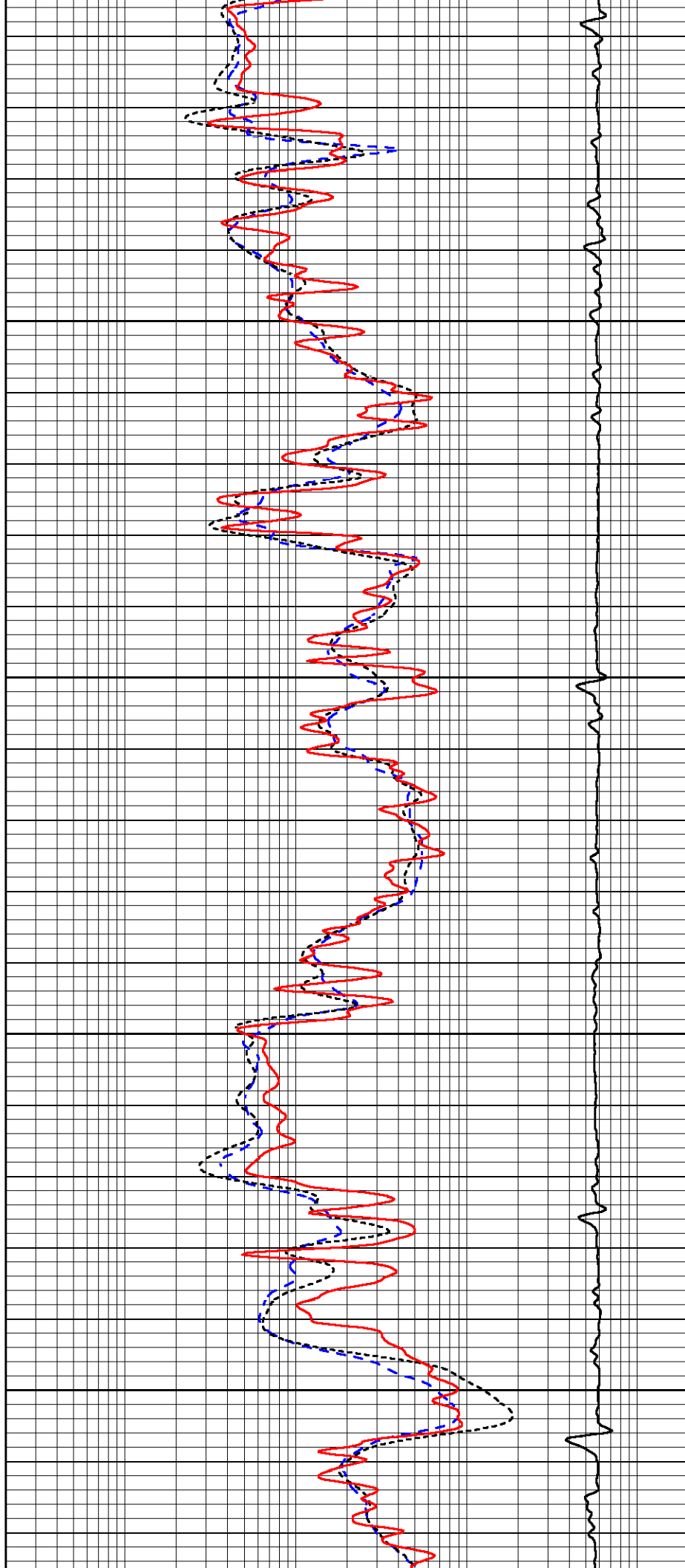


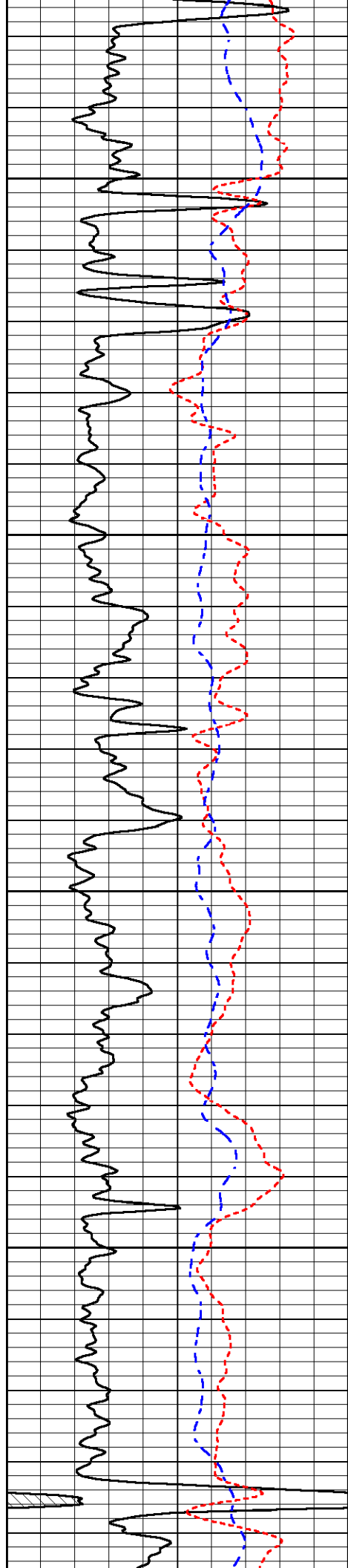
3200

3250

3300

3350



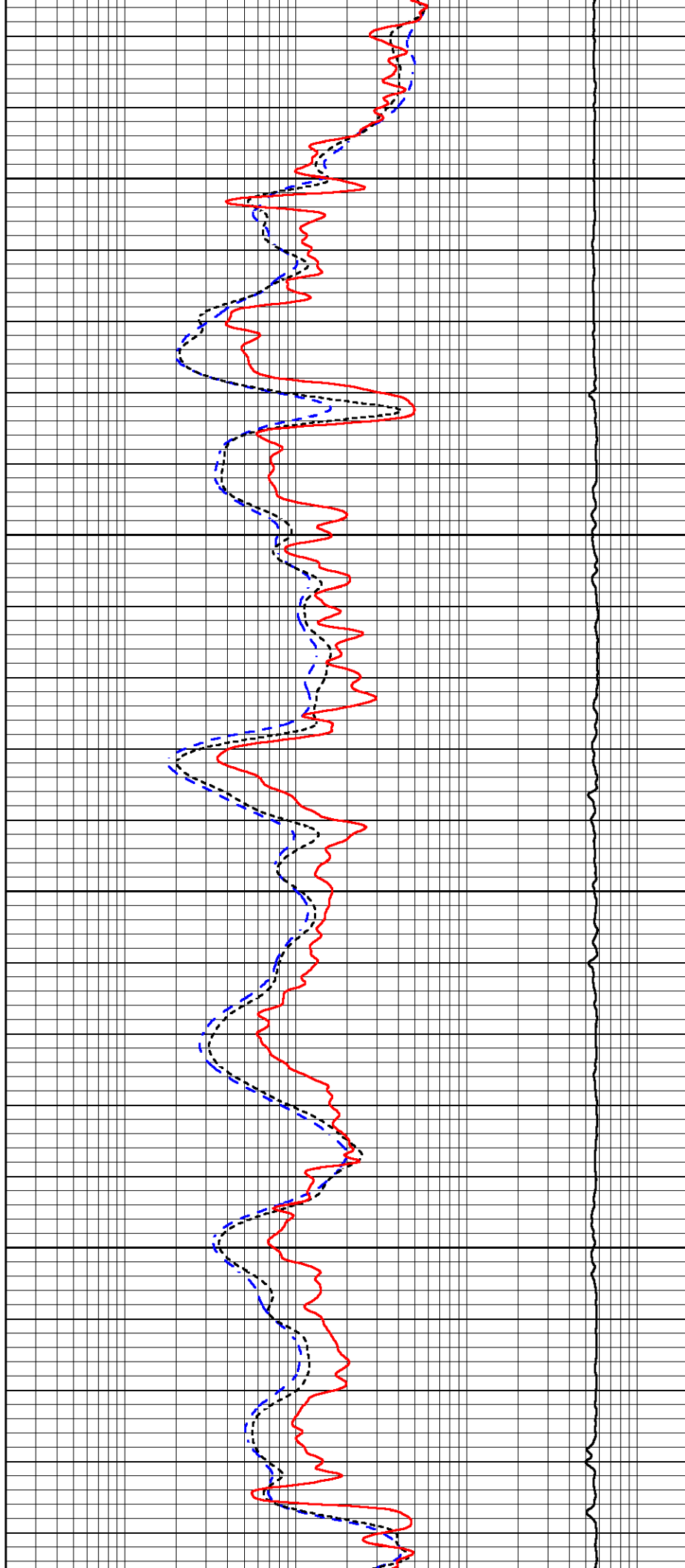


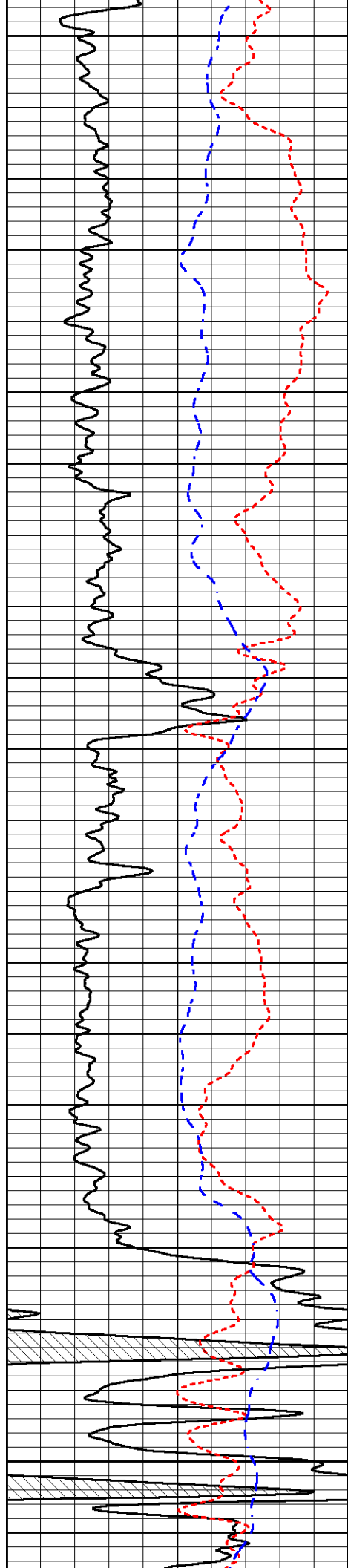
3400

3450

3500

3550





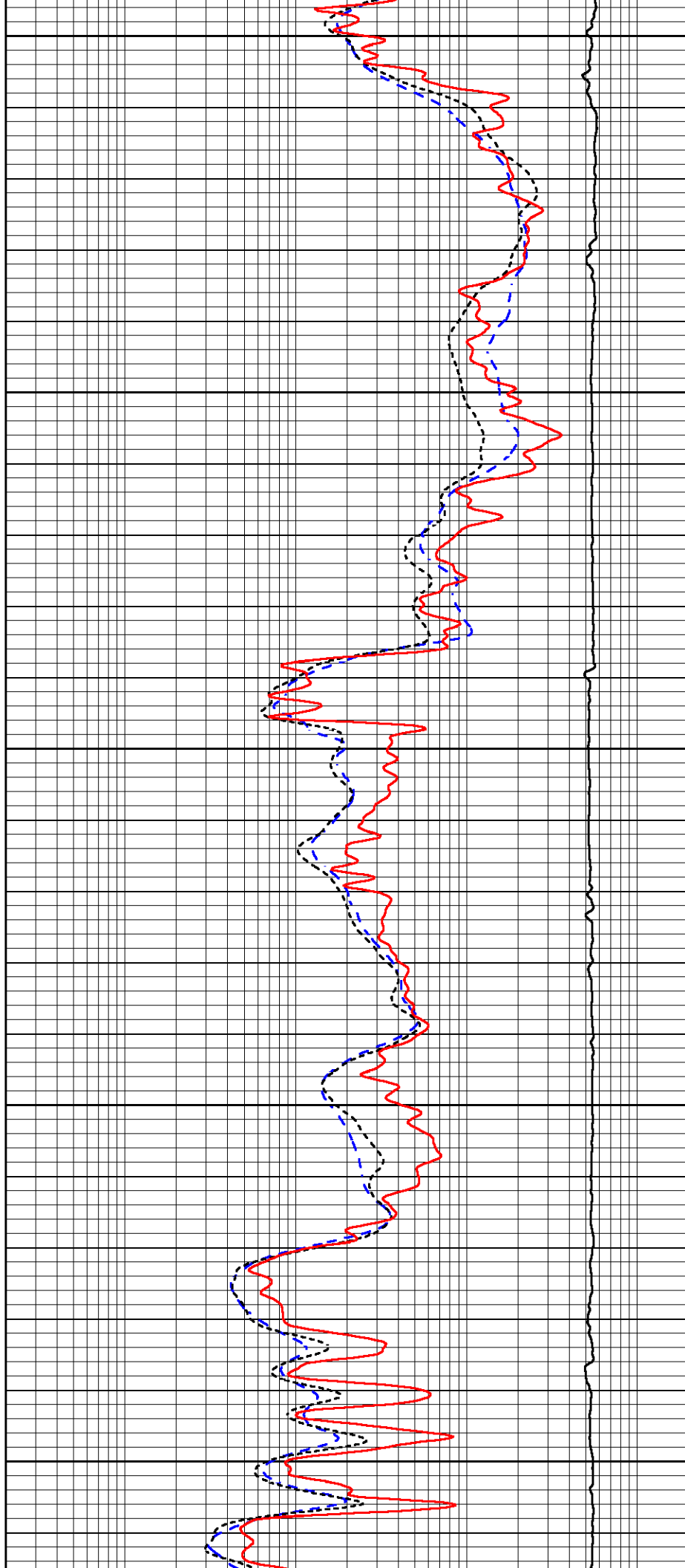
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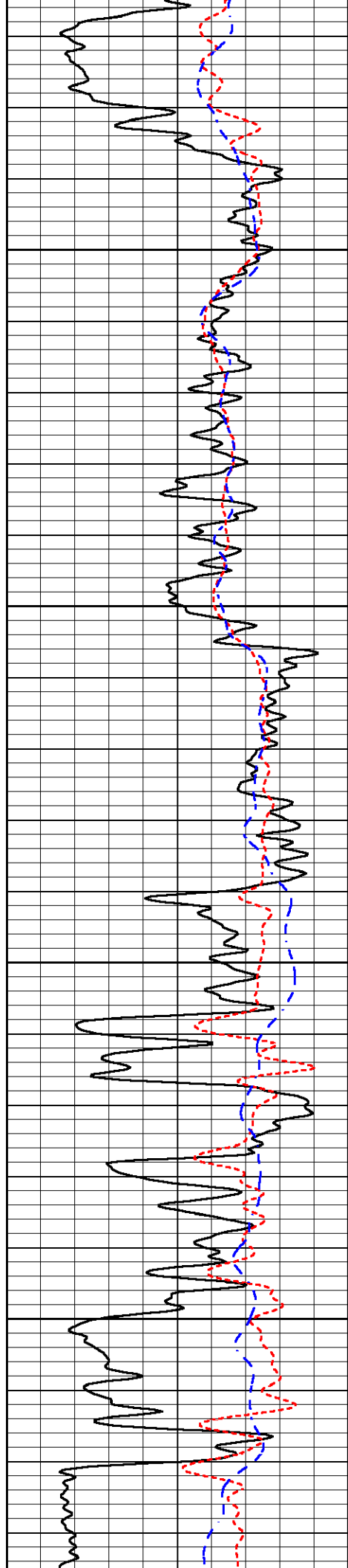
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3700

3750

3800



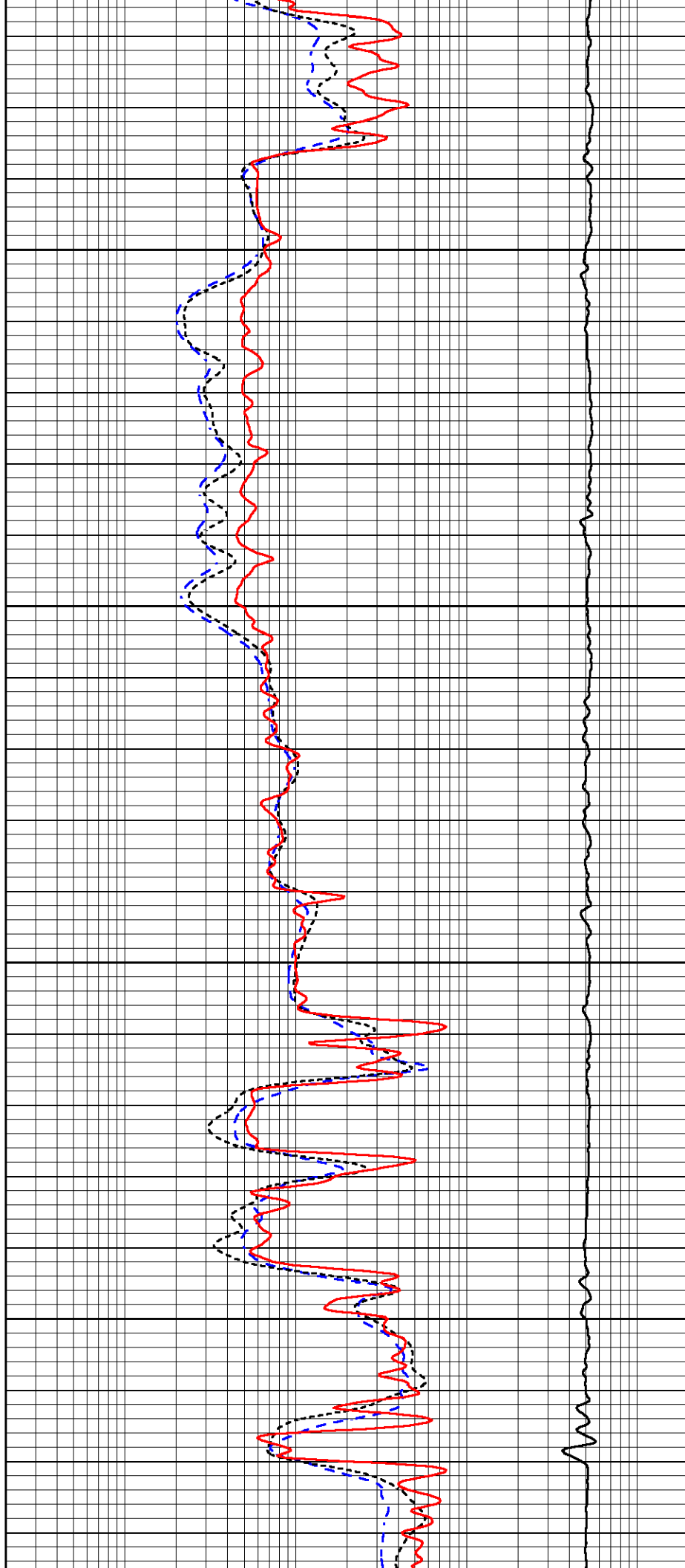


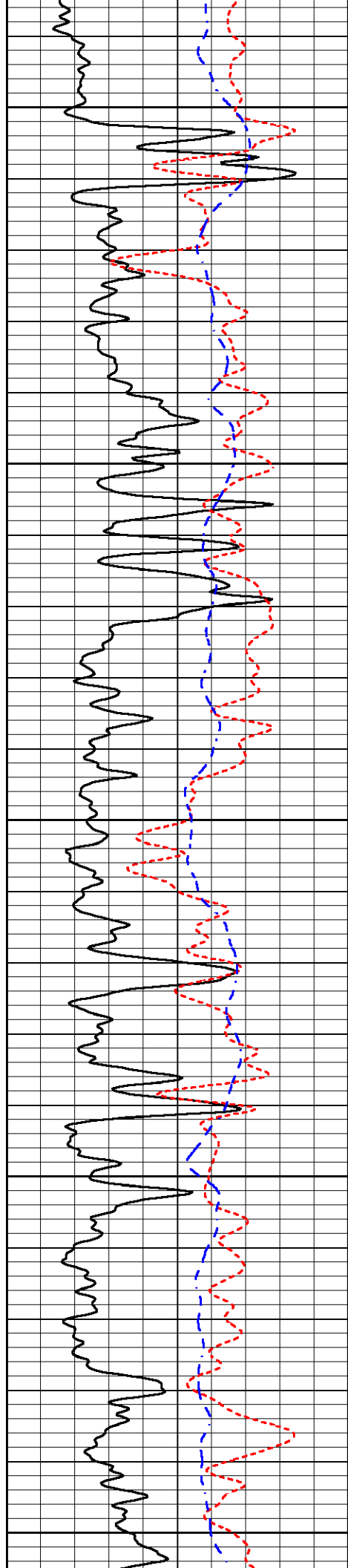
3850

3900

3950

4000





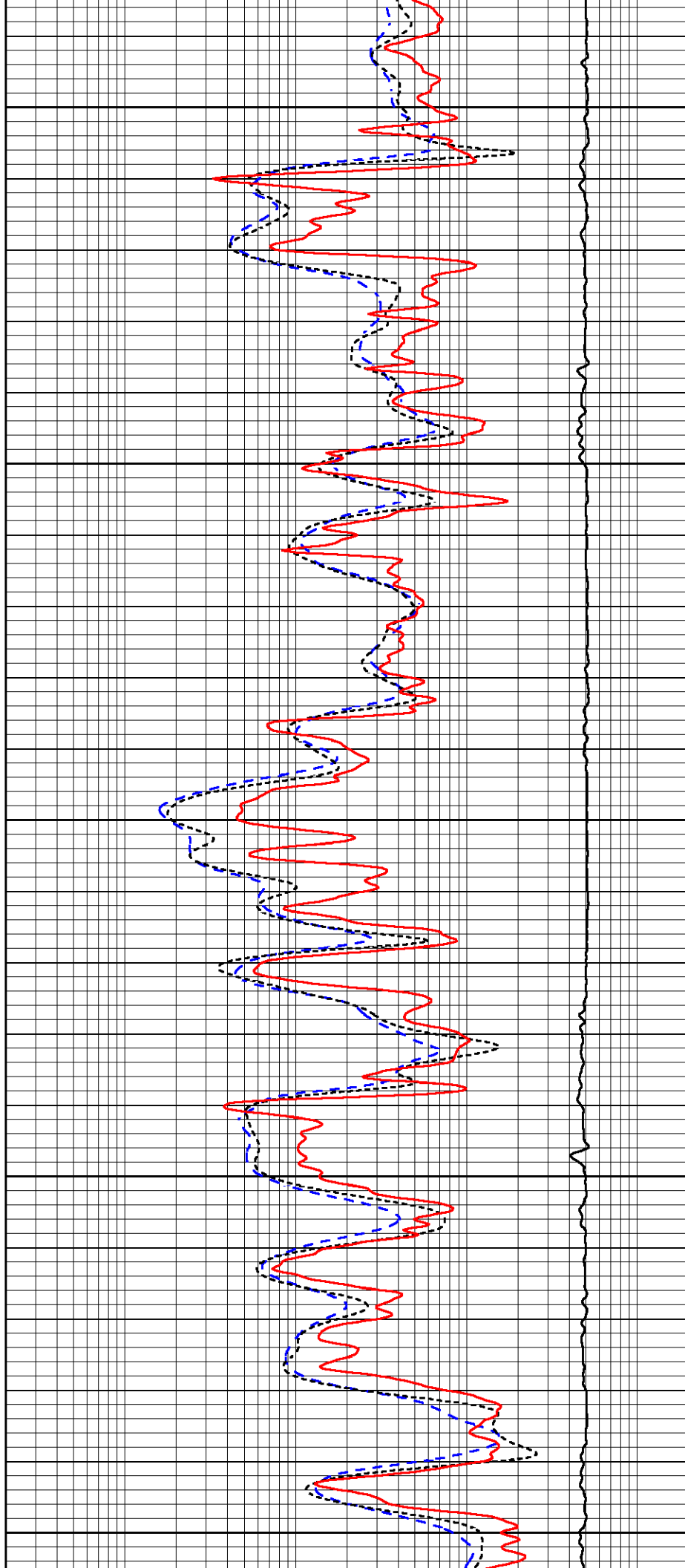
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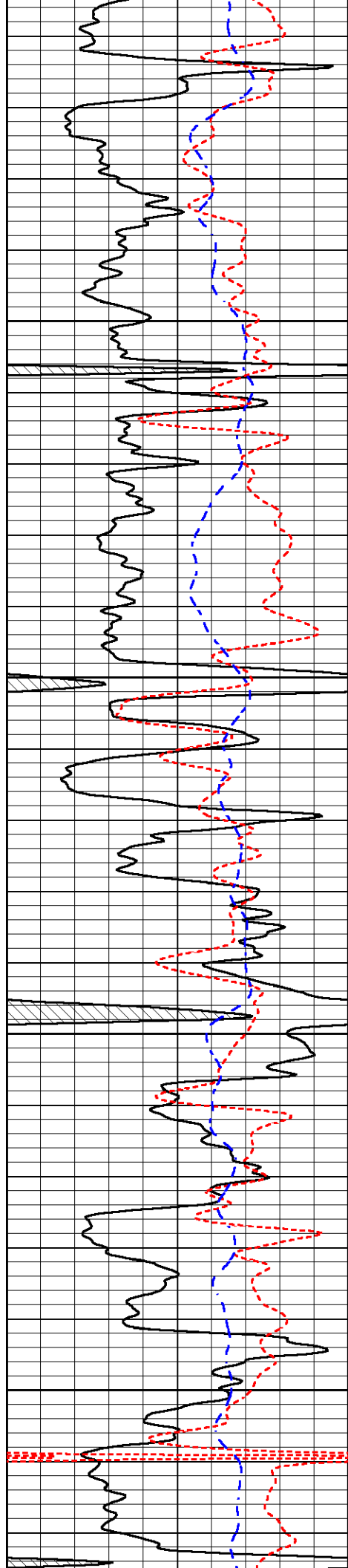
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4150

4200

4250



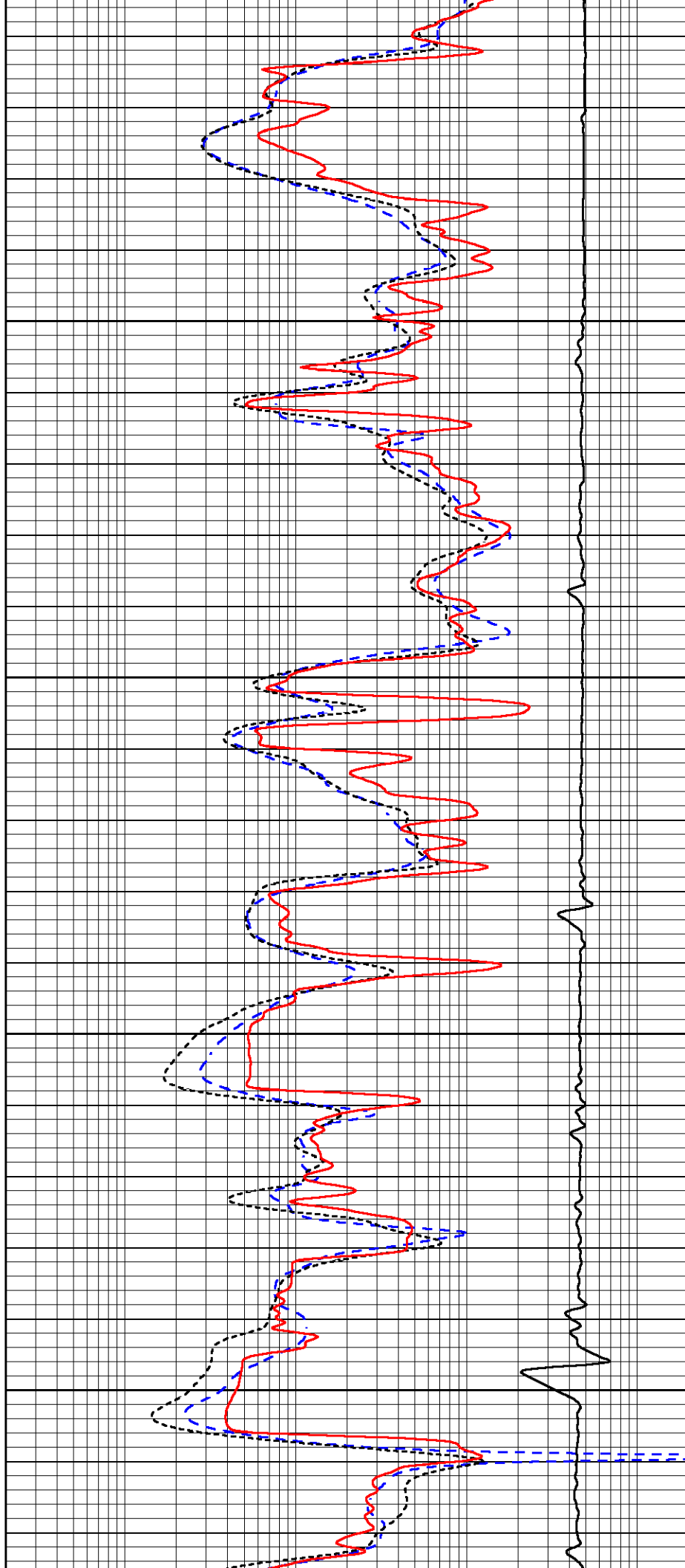


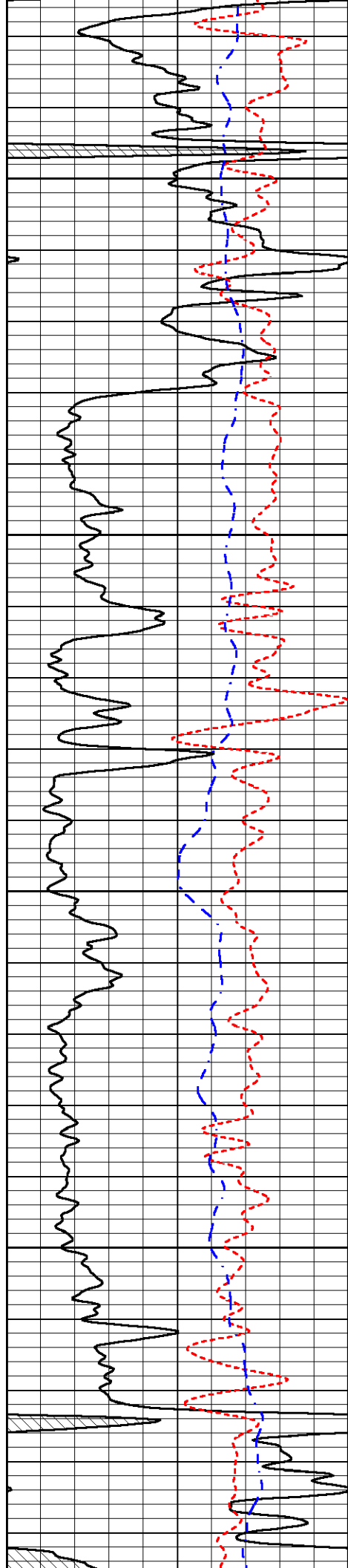
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4350

4400

4450



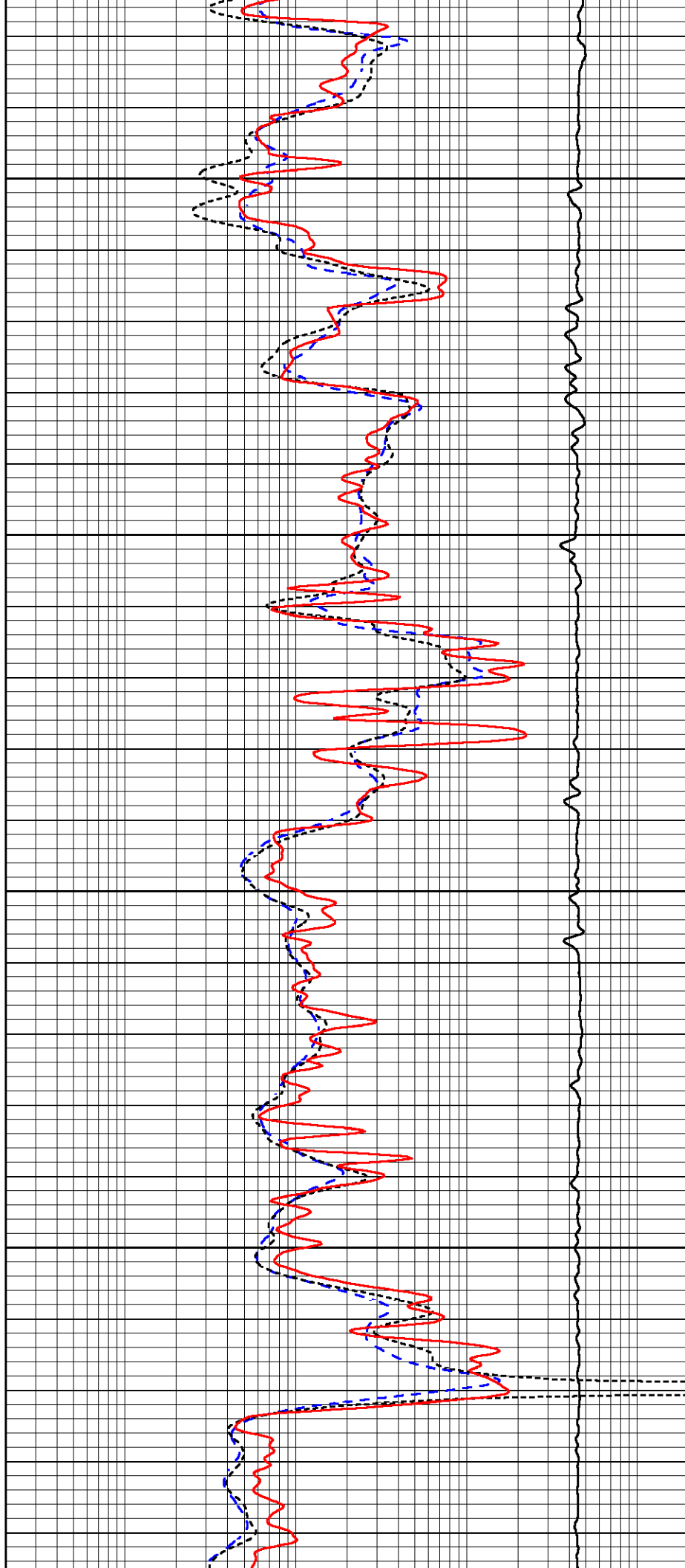


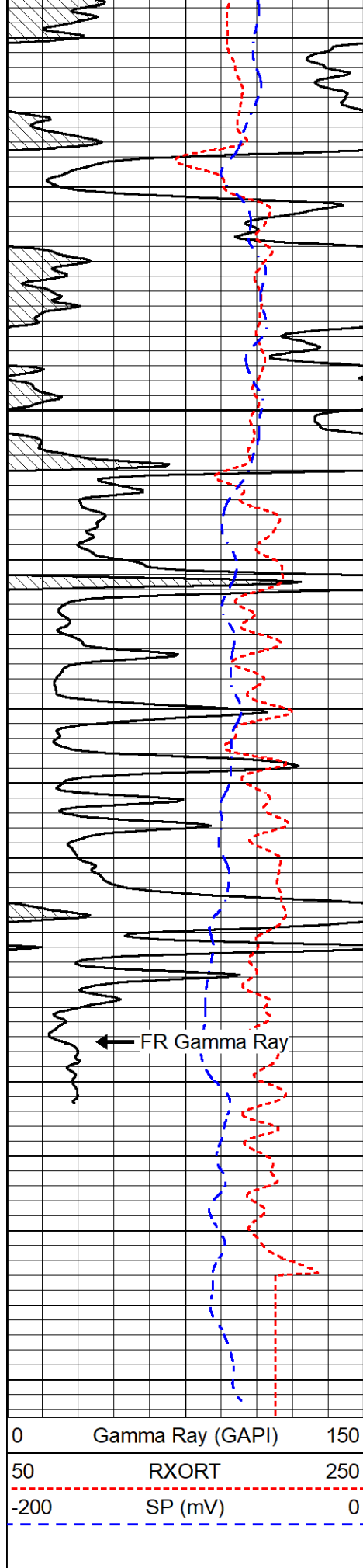
4500

4550

4600

4650



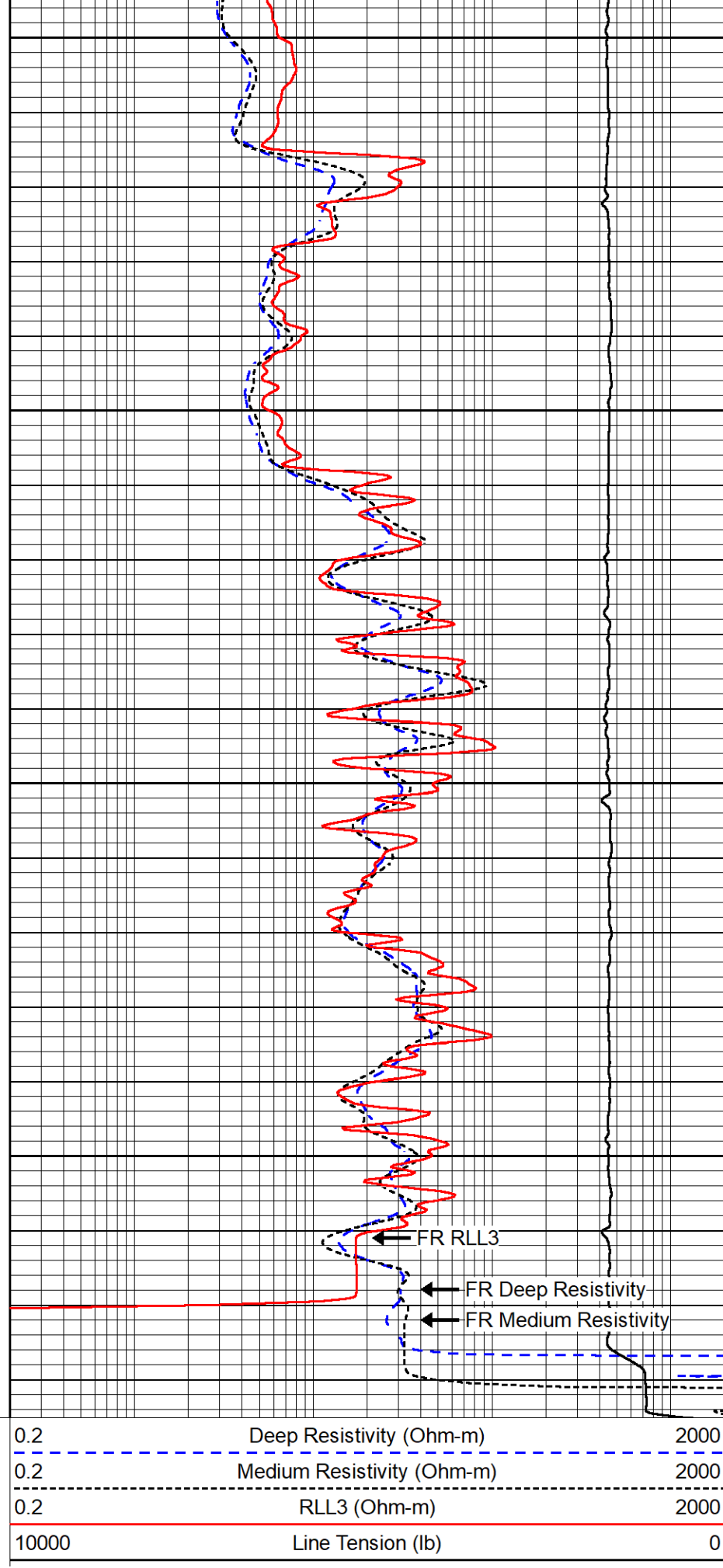


4700

4750

4800

4850



FR RLL3

FR Deep Resistivity

FR Medium Resistivity

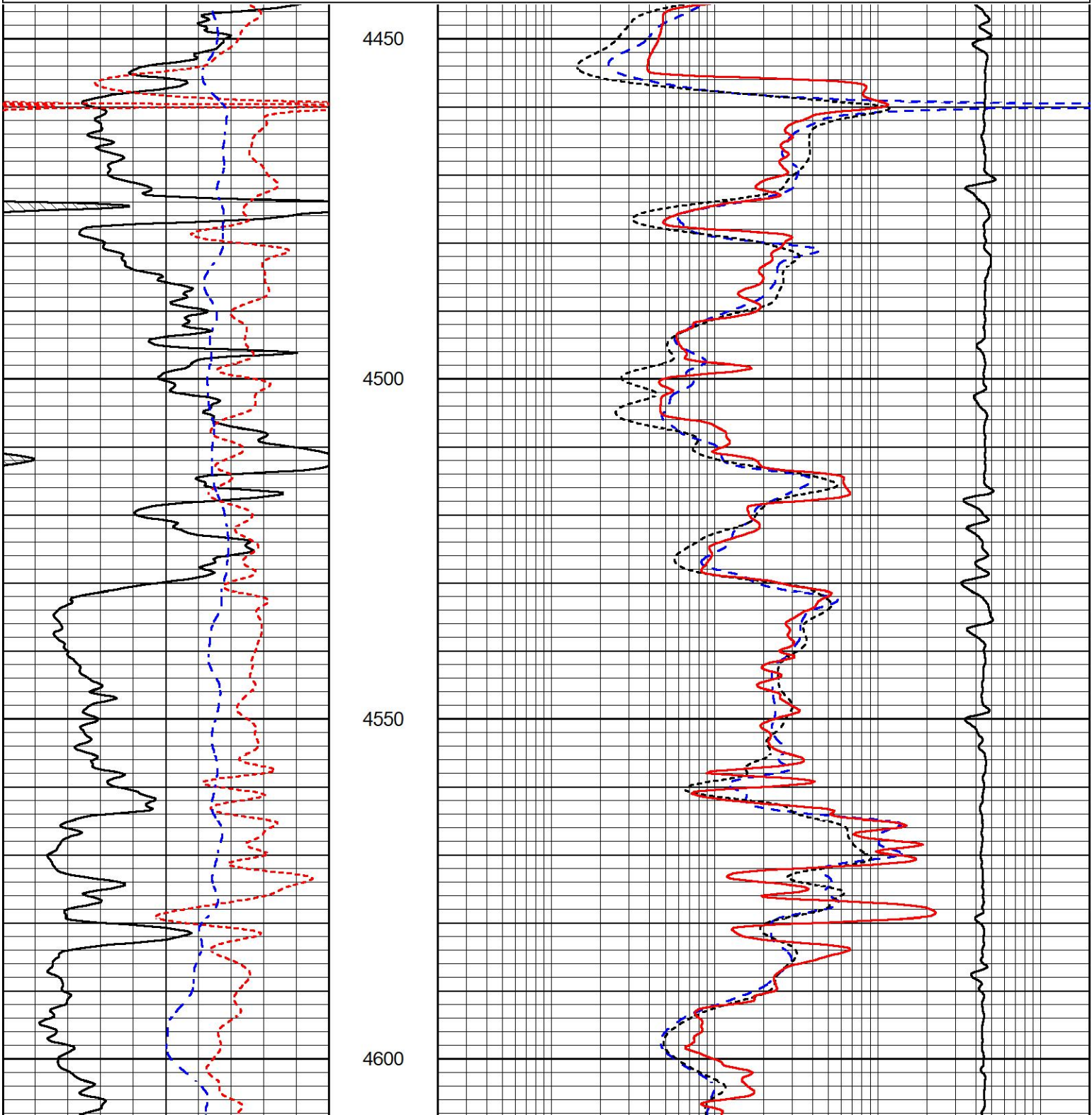


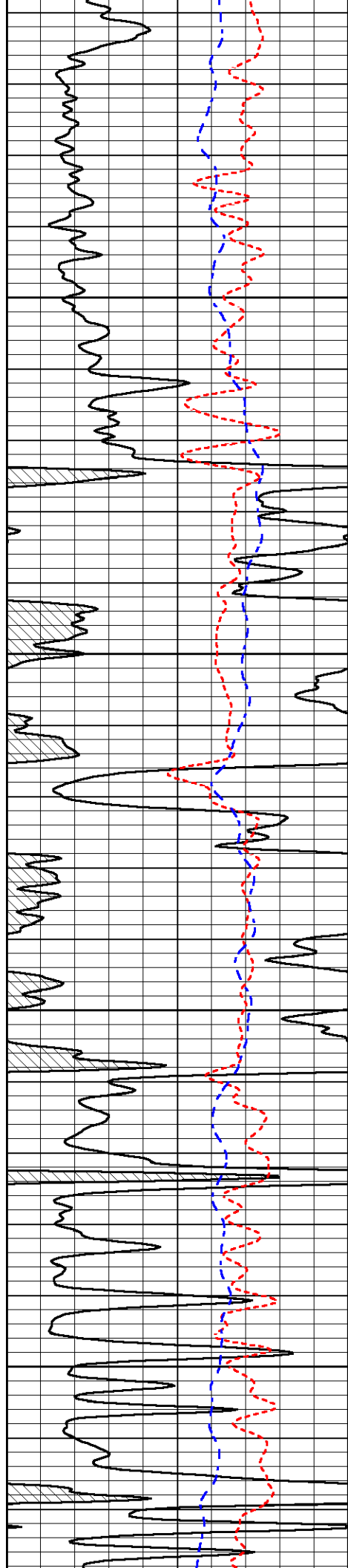
REPEAT SECTION

REPEAT PASS

Database File griffin_madelyn 2 owwo.db
Dataset Pathname stkml/pass2.1
Presentation Format _dil
Dataset Creation Fri Jul 19 05:16:14 2024
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
50	RXORT	250	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0



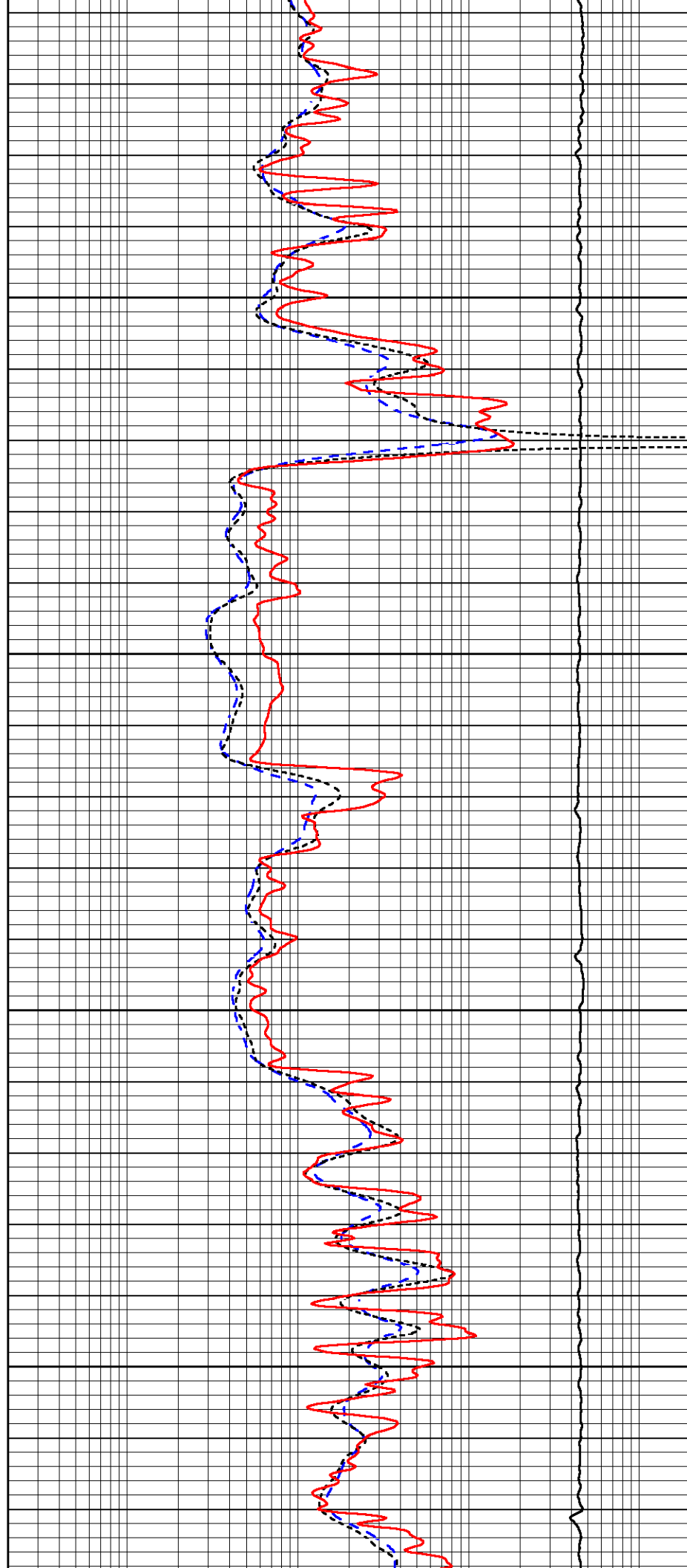


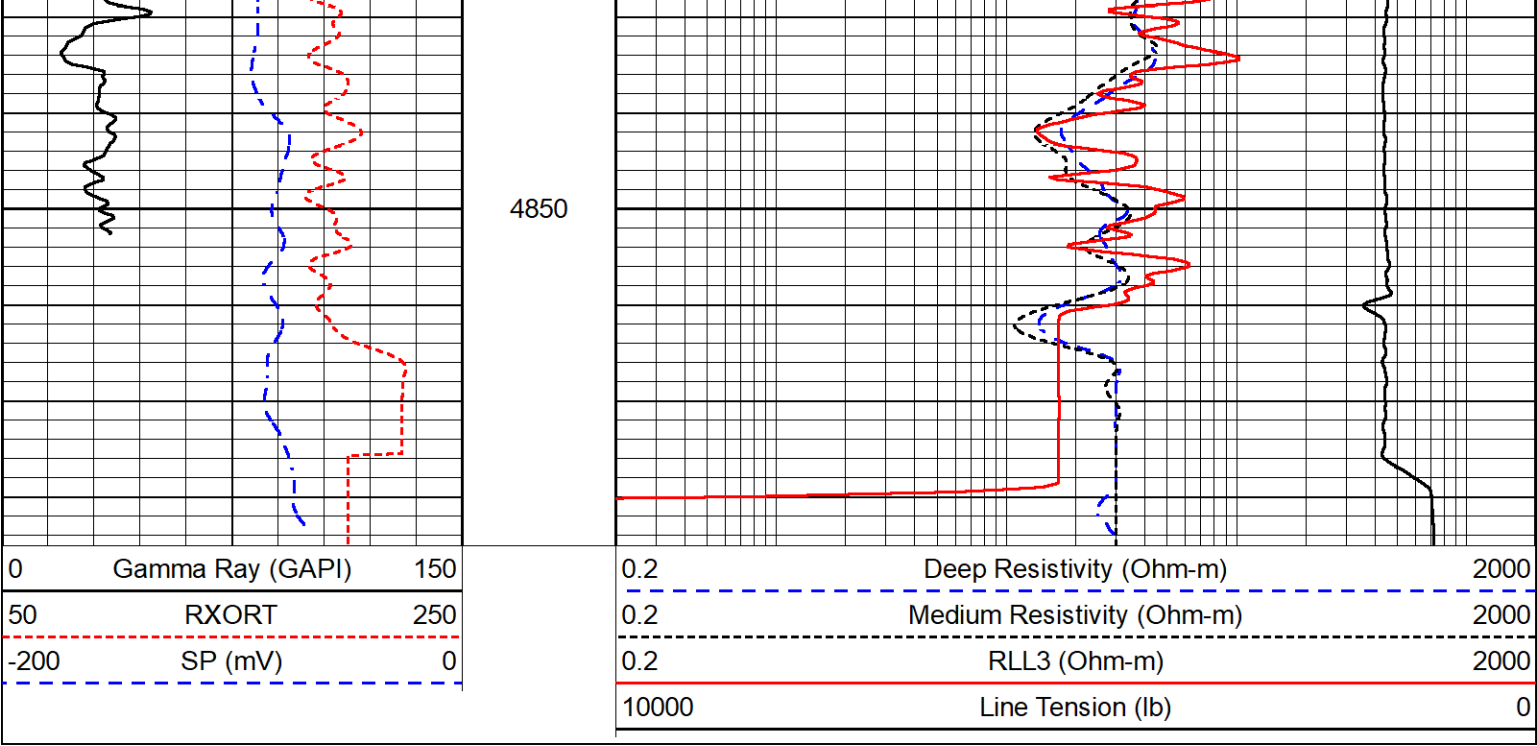
4650

4700

4750

4800





Calibration Report	
Database File	griffin_madelyn 2 owwo.db
Dataset Pathname	stkml/pass3.1
Dataset Creation	Fri Jul 19 06:05:42 2024

Dual Induction Calibration Report							
Serial-Model:				506-M&W			
Surface Cal Performed:				Sun Jun 30 20:32:27 2024			
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	255.800	mmho/m	0.465	-32.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.390	-10.000

Microlog Calibration Report							
Serial-Model:				402-PSI STKBL ML			
Performed:				Thu May 30 05:58:00 2024			
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	14000.0000	-0.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	19000.0000	0.0000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.6250

LITHODENSITY Calibration Report							
Serial Number:	703-03						
Tool Model:	STEP LITHO Short						
Performed:	Fri May 31 13:59:15 2024						
Source:							
Background:	Win1	Win2	Win3	Win4	Win5	Win6	Win7
	Win8						

SS:	56	59	223	276	25	75	46	1	cps
LS:	83	90	344	441	51	132	90	3	cps
Aluminum:									
SS:	1063	1260	2893	2631	48	80	48	3	cps
LS:	1179	2084	3854	1823	62	133	86	5	cps
Magnesium:									
SS:	1756	2035	4740	3894	55	79	49	4	cps
LS:	4981	8390	15059	6054	115	127	85	14	cps
Aluminum+Iron:									
SS:	676	887	2426	2310	45	79	52	2	cps
LS:	700	1495	3280	1630	60	131	90	5	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.236		
LS:							0.189		
Aluminum:									
SS:	2.6000		2.6000	g/cc			0.249		
LS:	2.6000		2.6000	g/cc			0.216		
Magnesium:									
SS:	1.6800		1.6800	g/cc	2.5700	2.5700	0.232		
LS:	1.6800		1.6800	g/cc	2.5700	2.5700	0.198		
Aluminum+Iron:									
SS:						6.1800	0.208		
LS:						6.1800	0.188		

Caliper:	Reference:		Reading:
Small Ring:	6.0	in	1.0
Large Ring:	14.0	in	1.0
Gain:	12.765		
Offset:	2.050		

Compensated Neutron Calibration Report

Serial Number:	210
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

Gamma Ray Calibration Report

Serial Number:	105	
Tool Model:	M&W	
Performed:	Sat Oct 21 23:48:19 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps



Field	Turkey Creek East
County	Barber
State	Kansas