



MIDWEST WIRELINE

DUAL INDUCTION

CompanyGriffin Management LLC		Company Griffin Management LLC	
Well	Gary #2	Well	Gary #2
Field	Turkey Creek East	Field	Turkey Creek East
County	Barber	County	Barber
State	Kansas	State	Kansas
Location:		API # : 15-007-24478-00-00	Other Services
Permanent Datum		NE NE NE NE	CNL/CDL
Log Measured From		130 FNL & 220 FEL	MEL
Drilling Measured From		SEC 16 TWP 30S RGE 15W	
Ground Level		Elevation	1947
Kelly Bushing		K.B.	1952
Kelly Bushing		D.F.	
Kelly Bushing		G.L.	1947
Date	8/8/2023		
Run Number	One		
Depth Driller	4772		
Depth Logger	4772		
Bottom Logged Interval	4771		
Top Log Interval	950		
Casing Driller	8.625 @ 976		
Casing Logger	978		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	5000		
Density / Viscosity	9.3	51	
pH / Fluid Loss	10.5	9.2	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.8 @ 72		
Rmt @ Meas. Temp	0.6 @ 72		
Rmc @ Meas. Temp	1.08 @ 72		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.47 @ 124		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
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, KS, S to 110, 1 E, S & E into

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: T. Martin
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	40.75		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.65		CNT-M&W (207)	5.00	3.50	100.00
CNSSC	36.90					
			MWLith-STEP LITHO (704-10) Long Litho Mandrel	8.92	5.00	250.00
LCAL	28.21		ML-PSIML (401)	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					
LSHVNG	27.96		DIL-M&W (507)	18.25	3.50	220.00
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_gary #2.db: field/well/StkMI/pass3.1 Total length: 42.75 ft Total weight: 685.00 lb O.D.: 5.00 in						

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_gary #2.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 124	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m -1	SPSHIFT mV 380	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 4772		

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
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



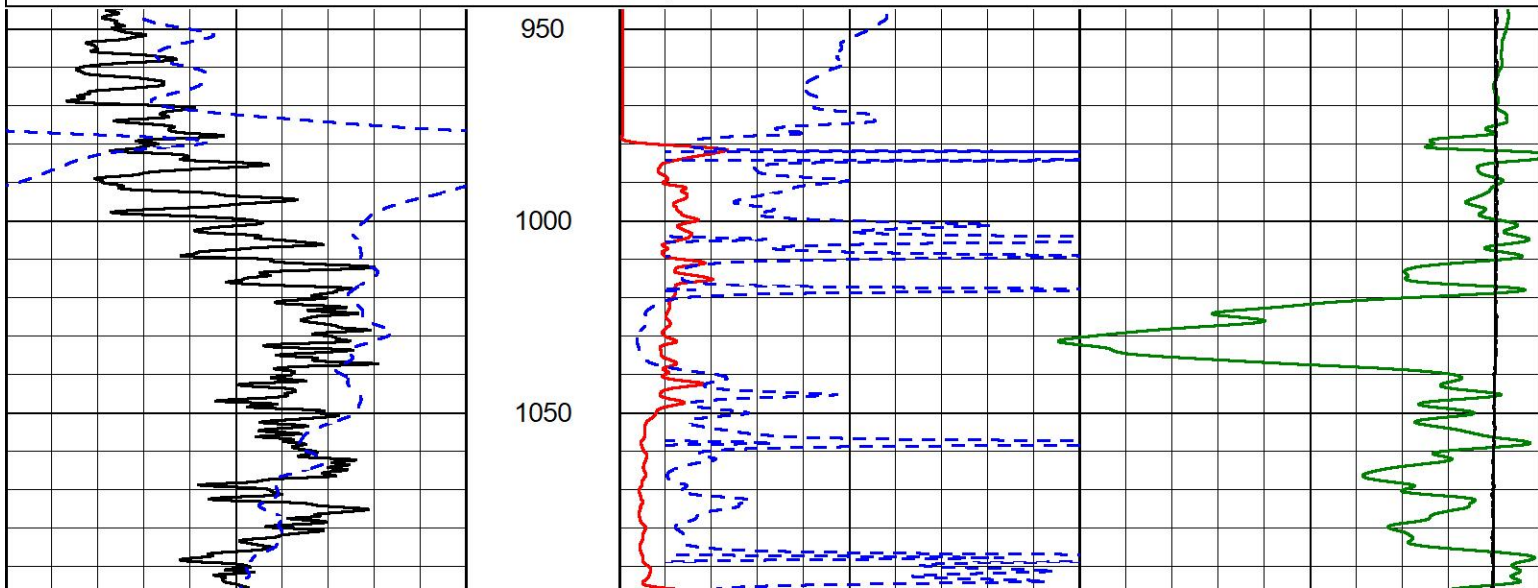
2" SCALE RESISTIVITY

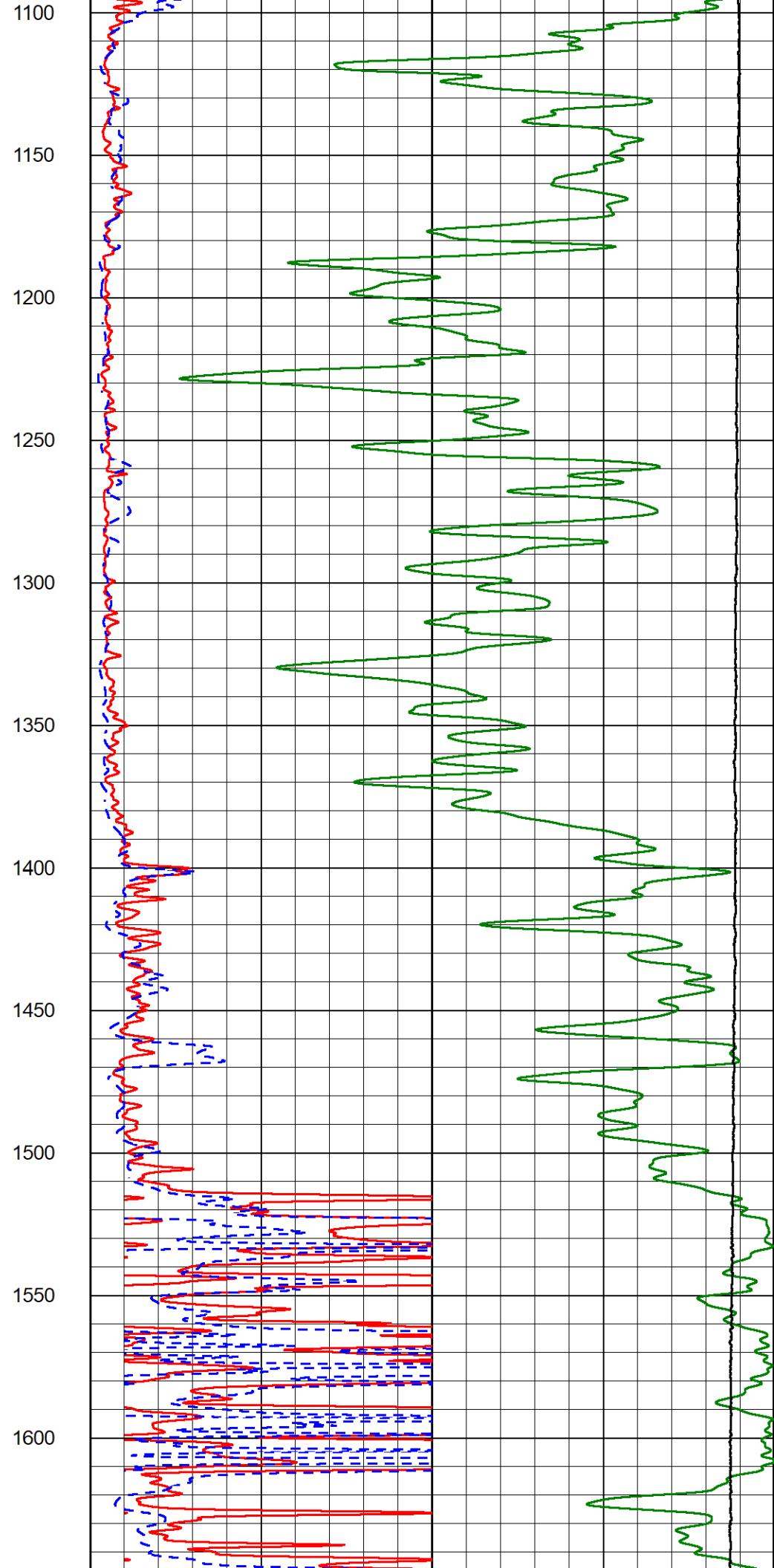
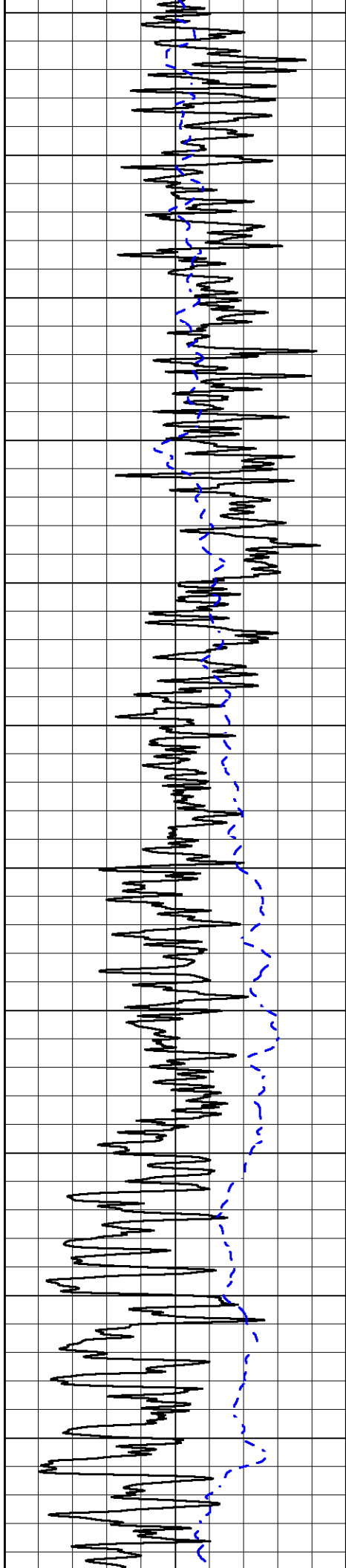
MAIN PASS

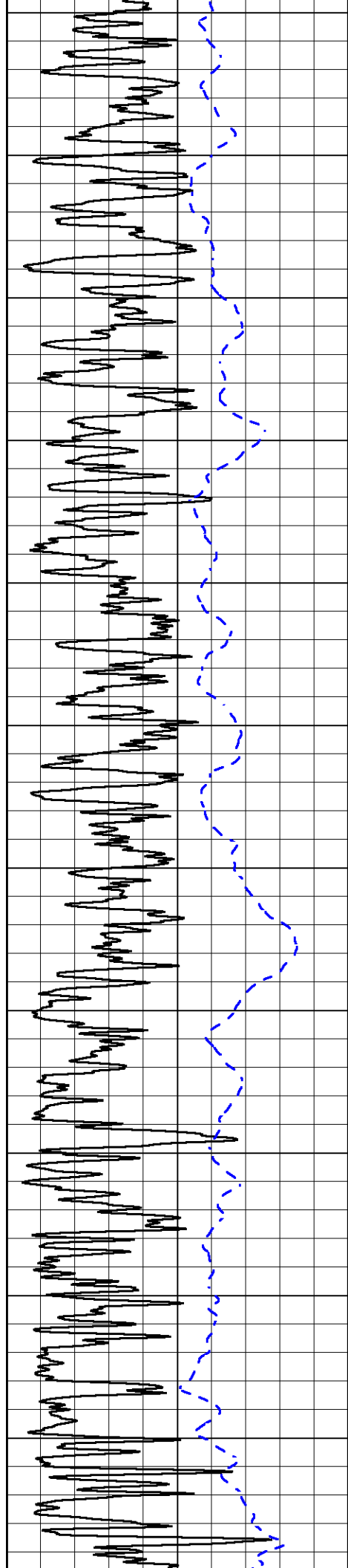
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Dataset Pathname StkMI/pass3.2
Presentation Format _dil2in
Dataset Creation Tue Aug 08 16:03:55 2023
Charted by Depth in Feet scaled 1:600

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

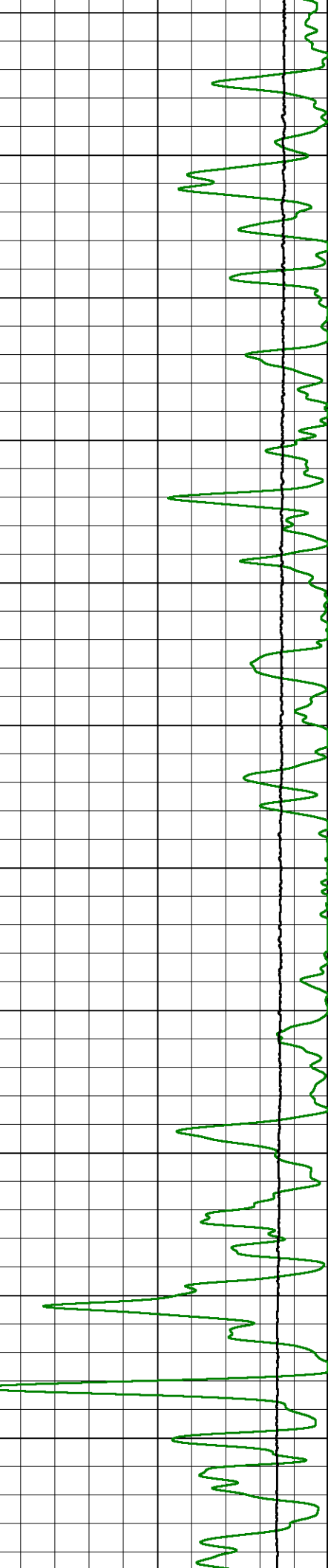
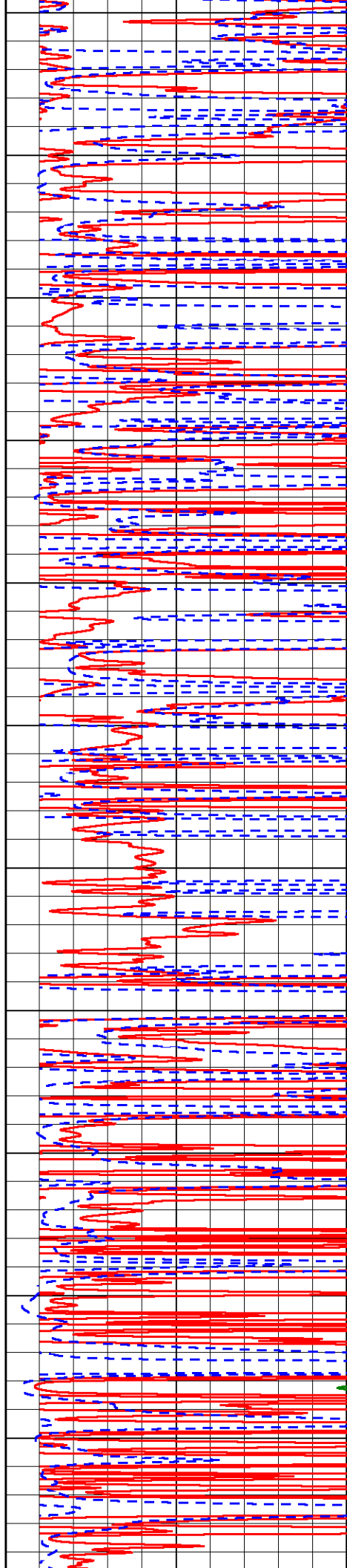
1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
0	Shallow Resistivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
50	Shallow Resistivity (Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200

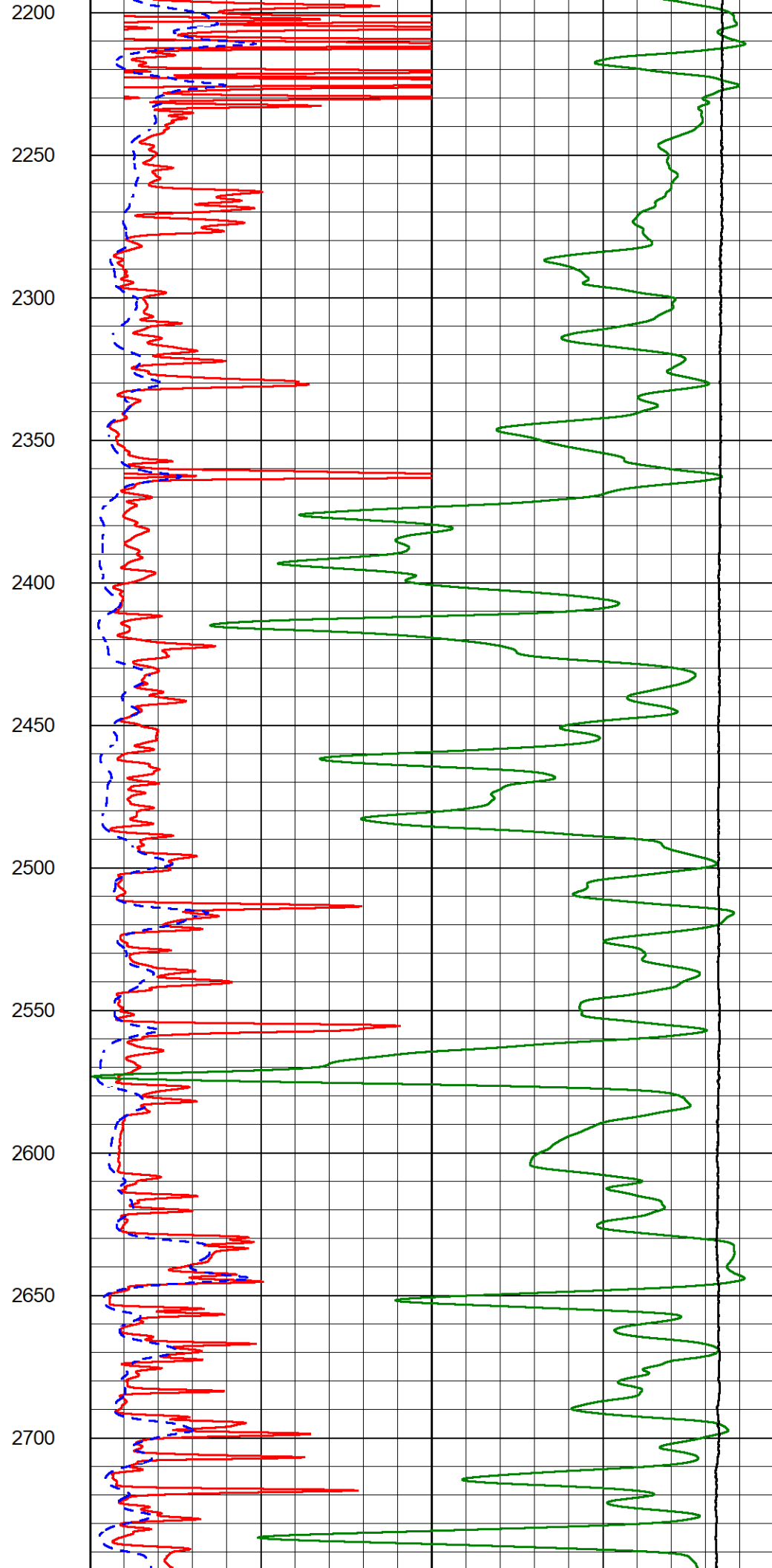
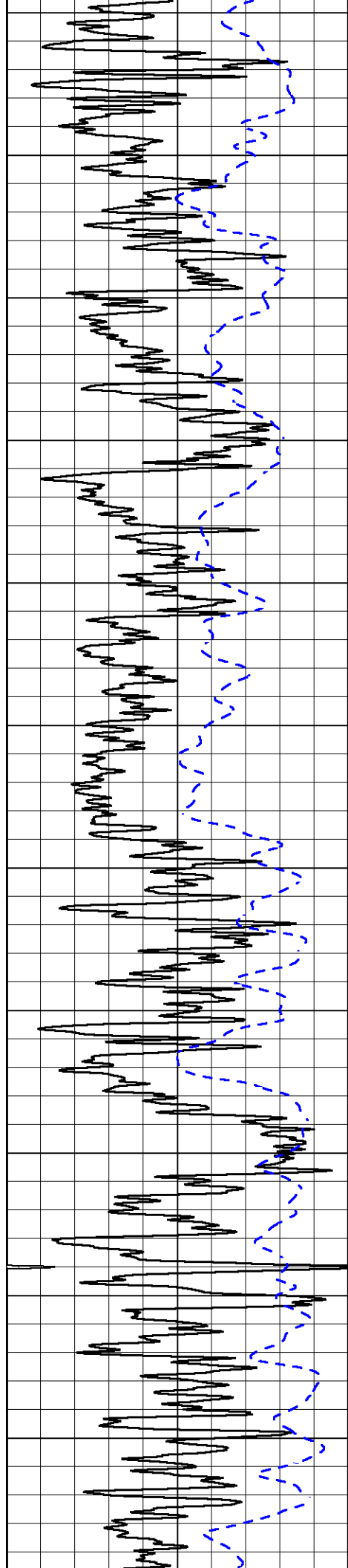


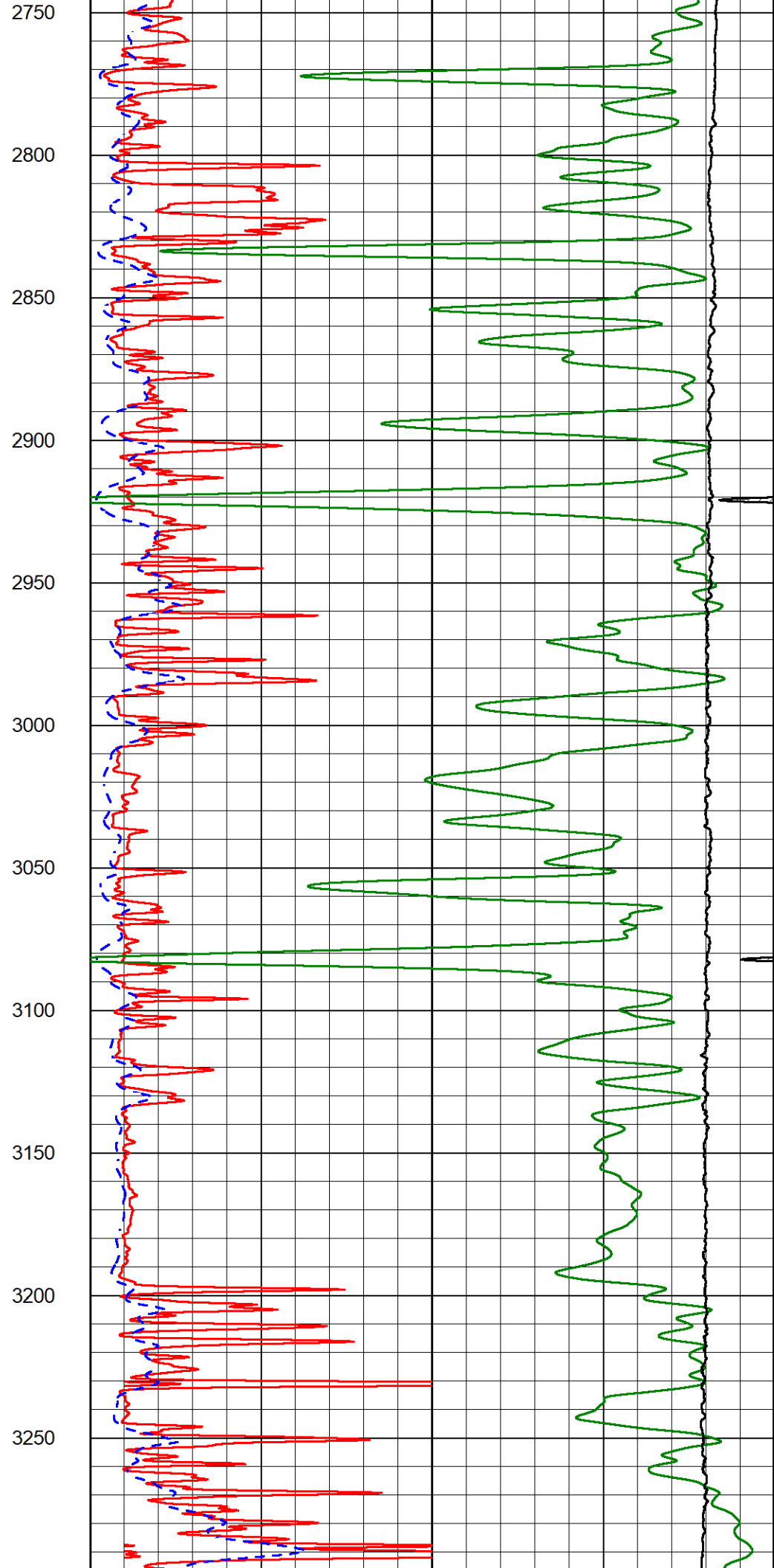
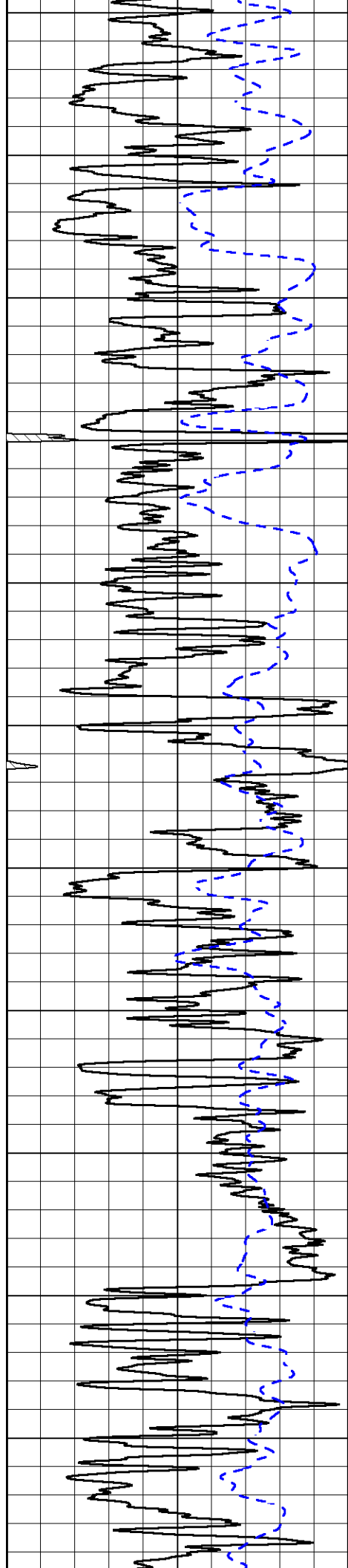


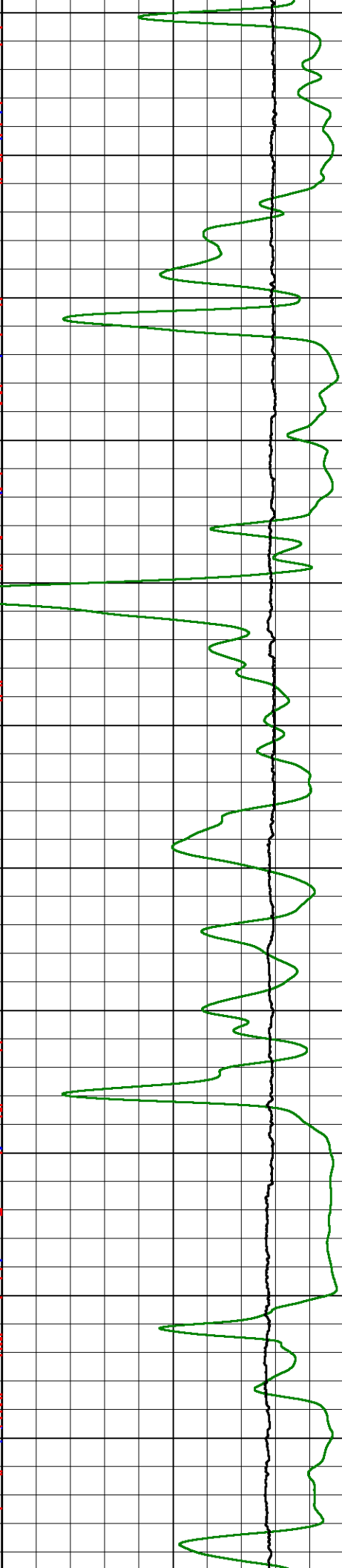
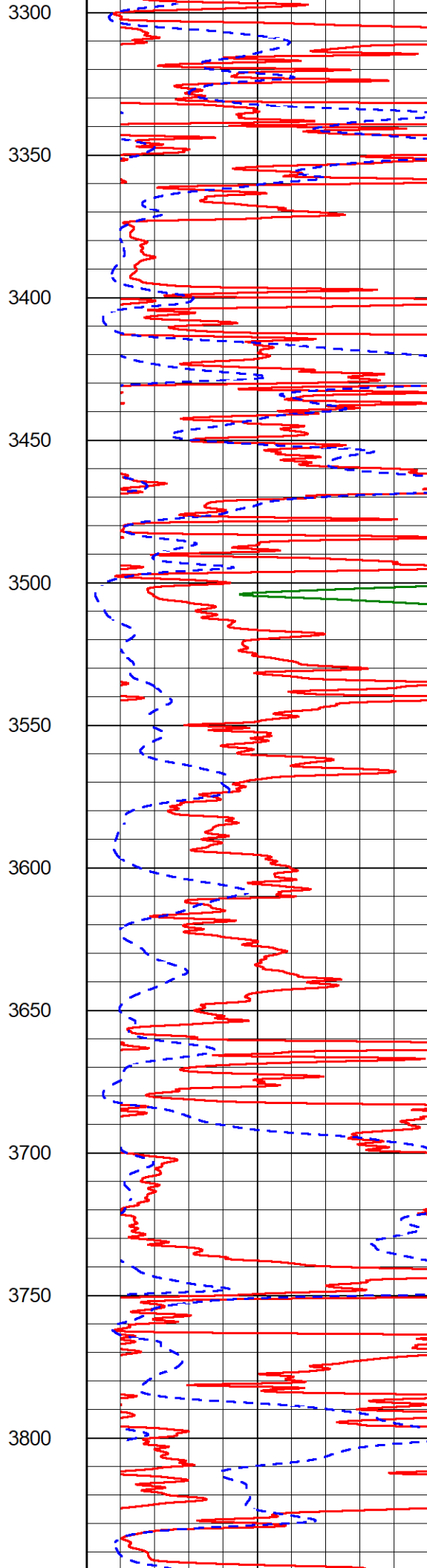
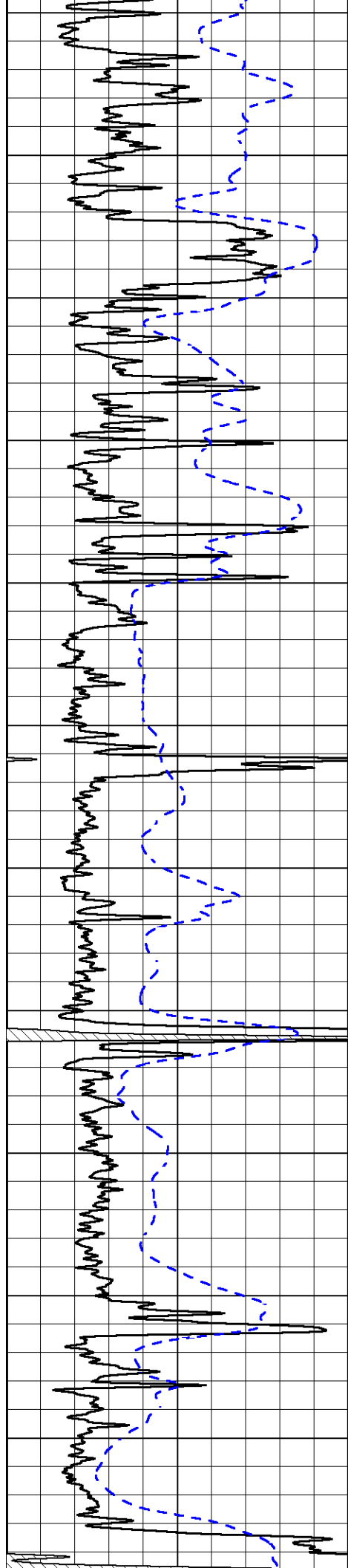


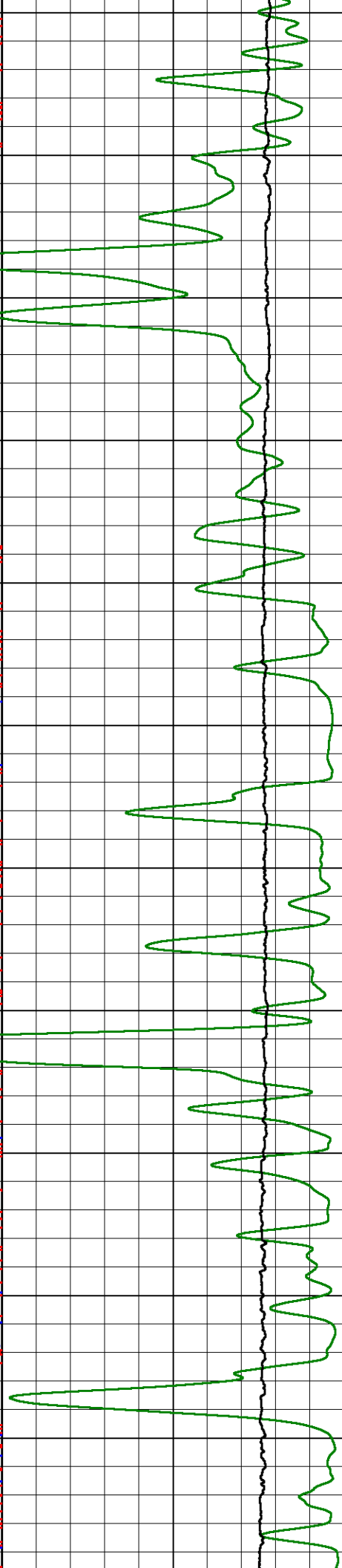
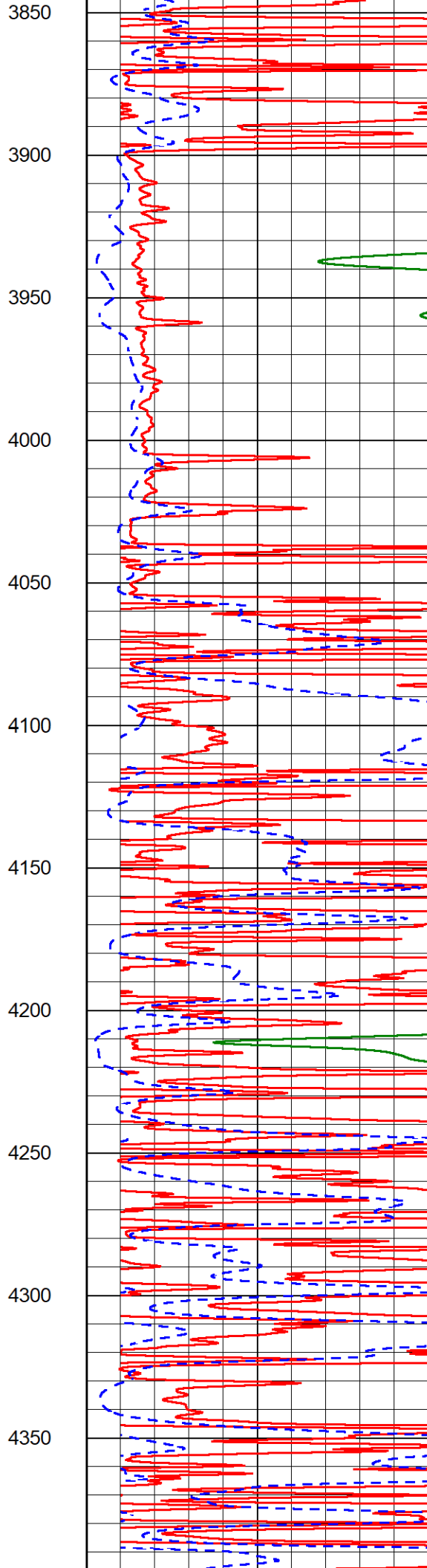
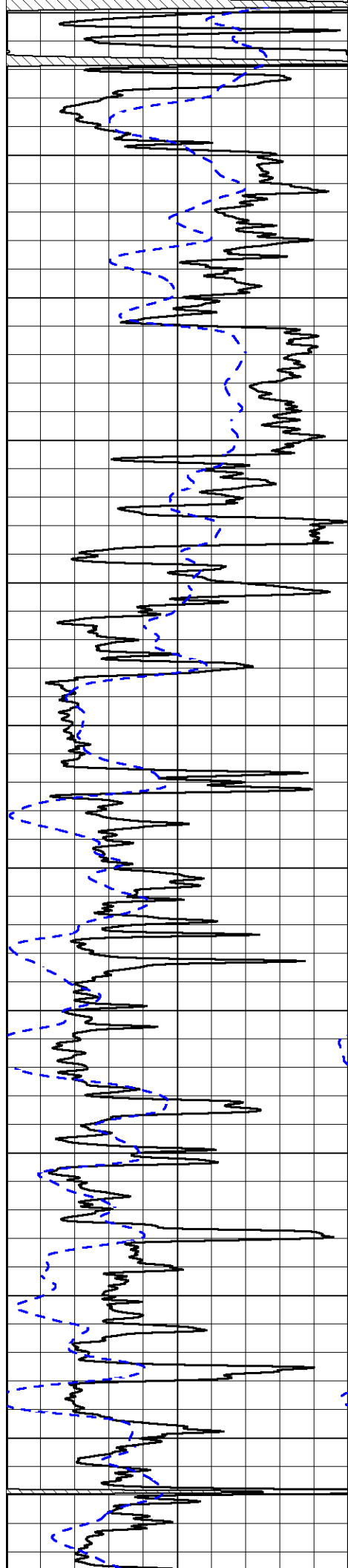
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100
2150

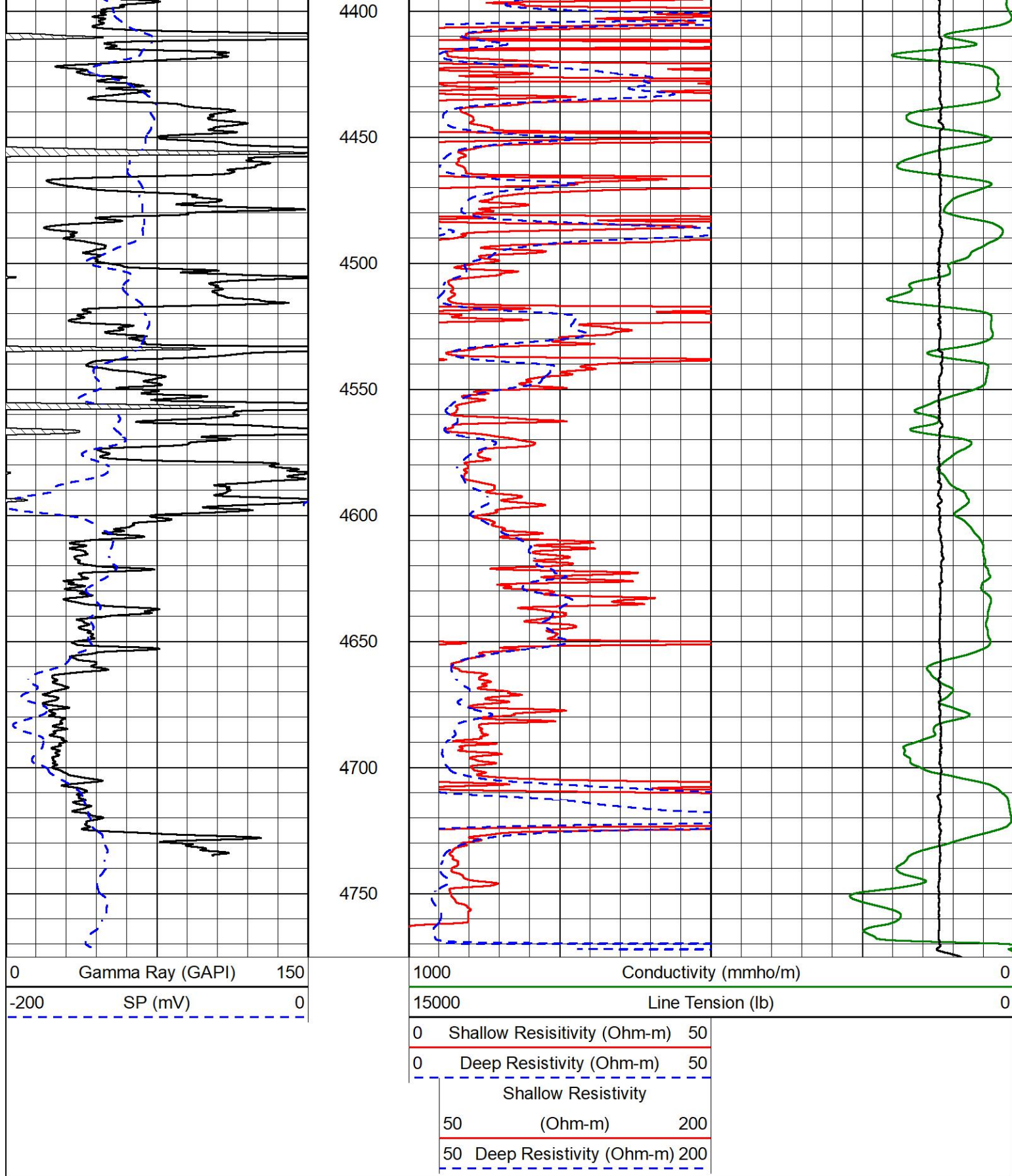








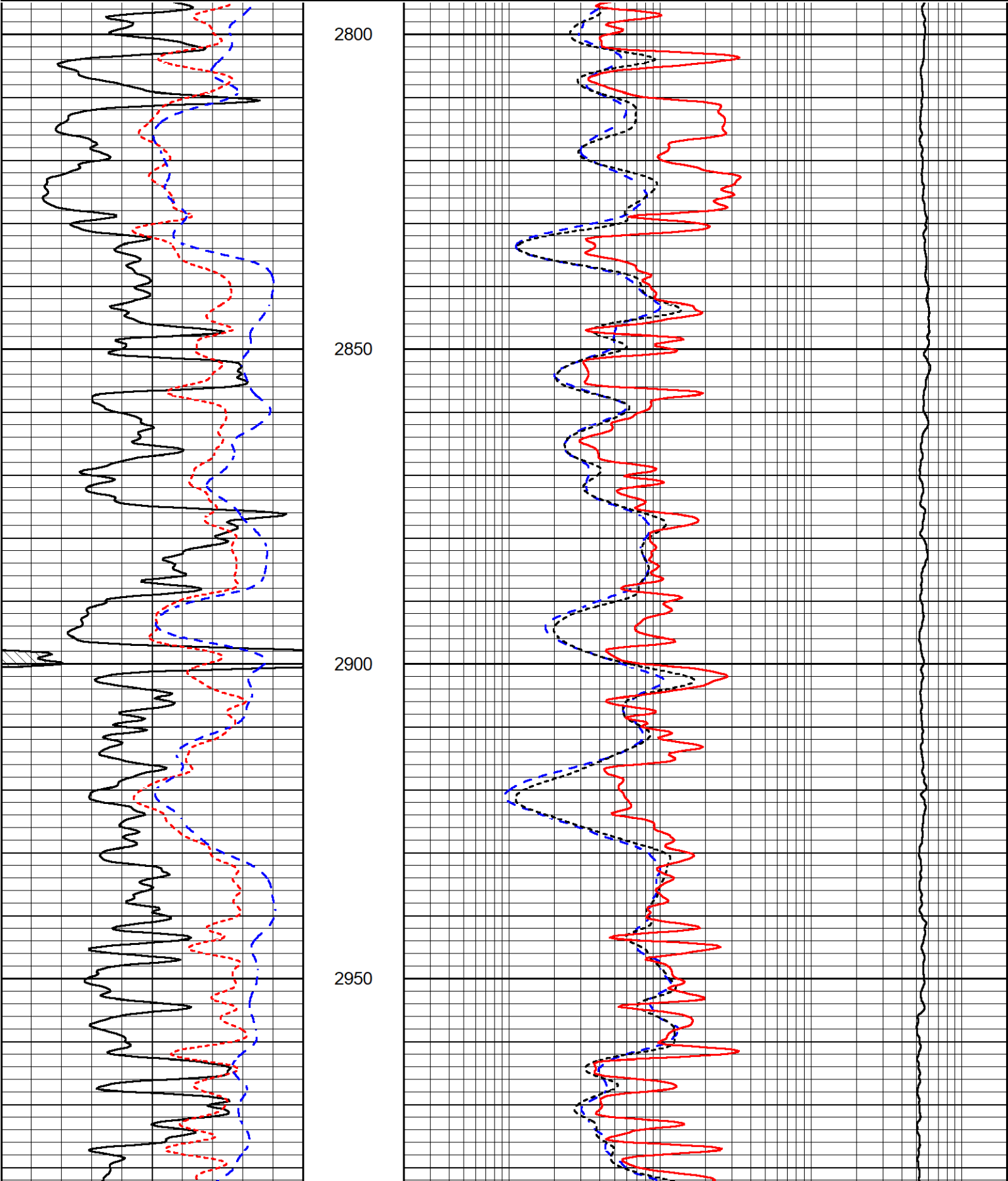


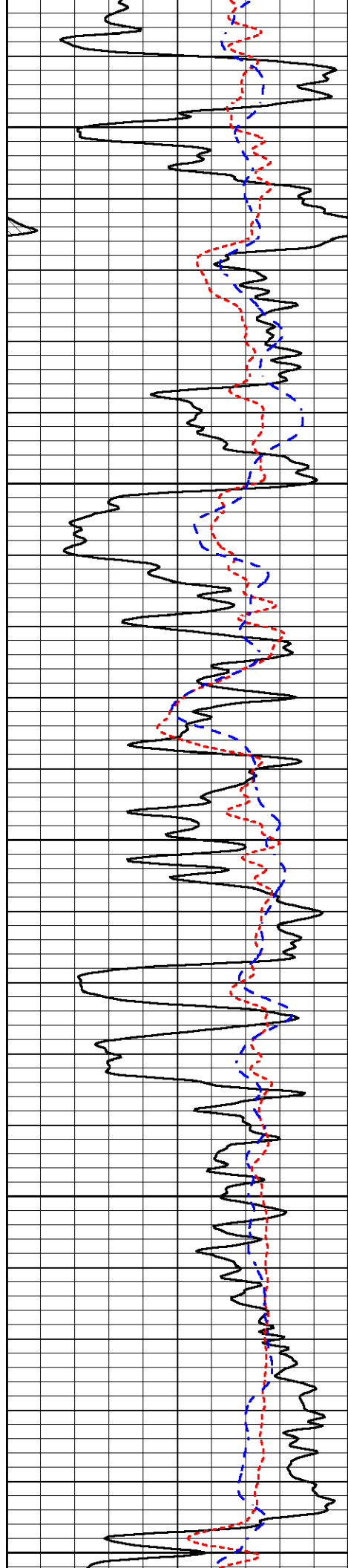


DETAIL SECTION

MAIN PASS

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	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0





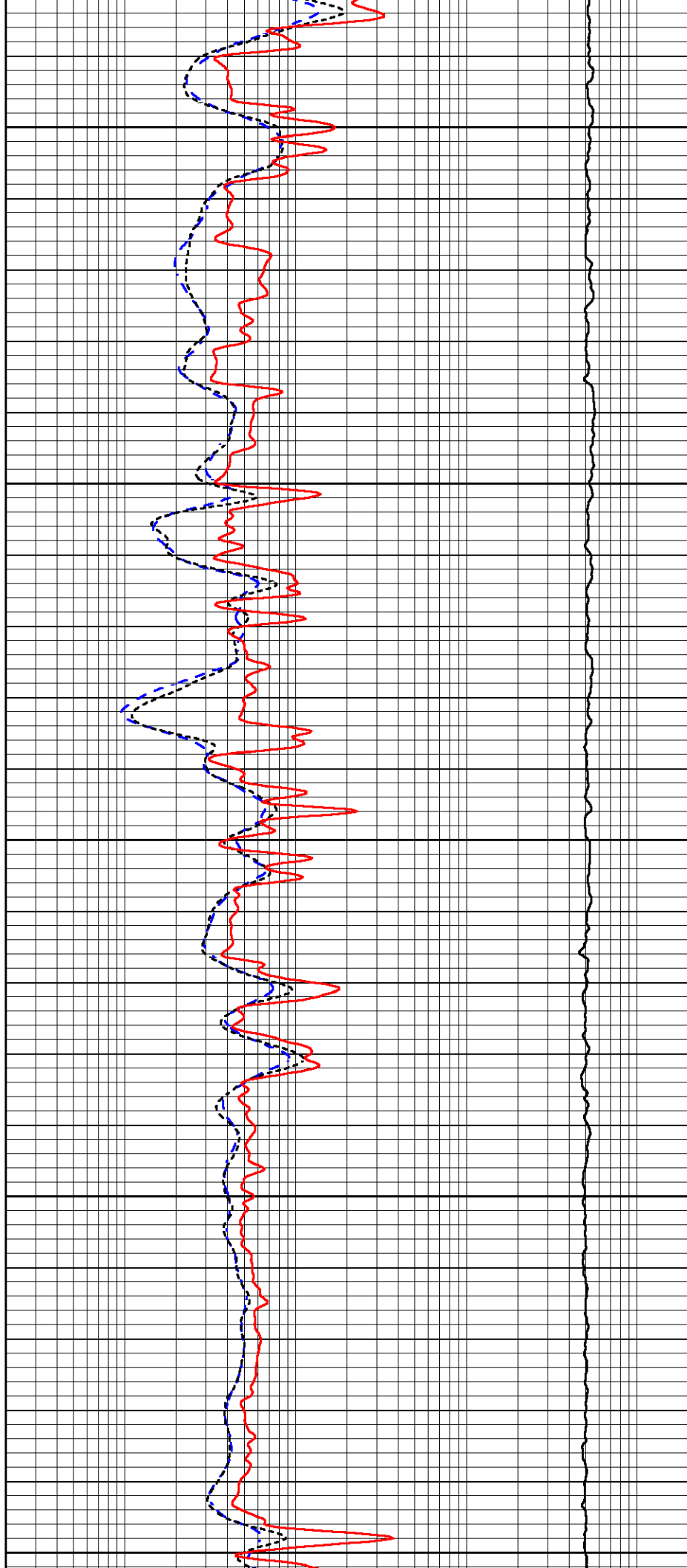
3000

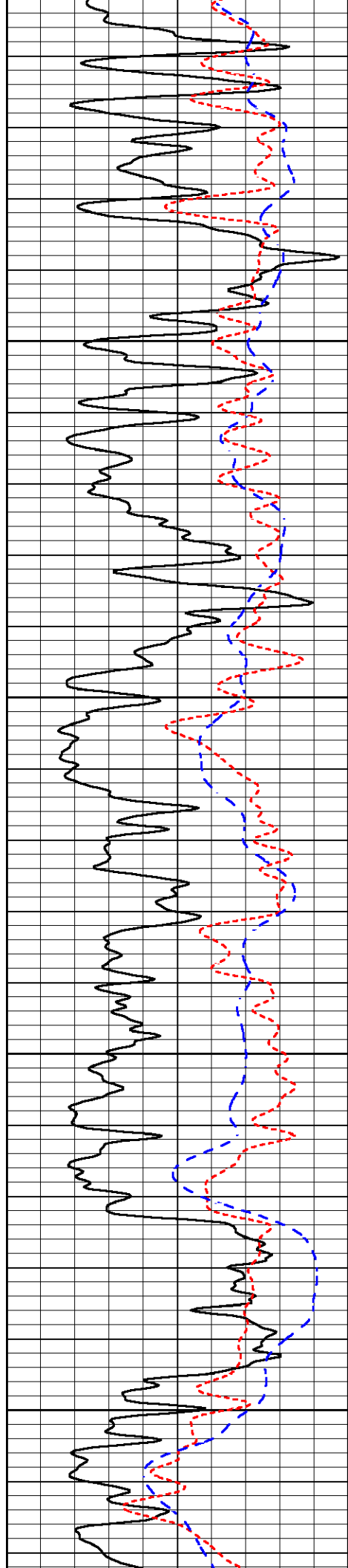
3050

3100

3150

3200



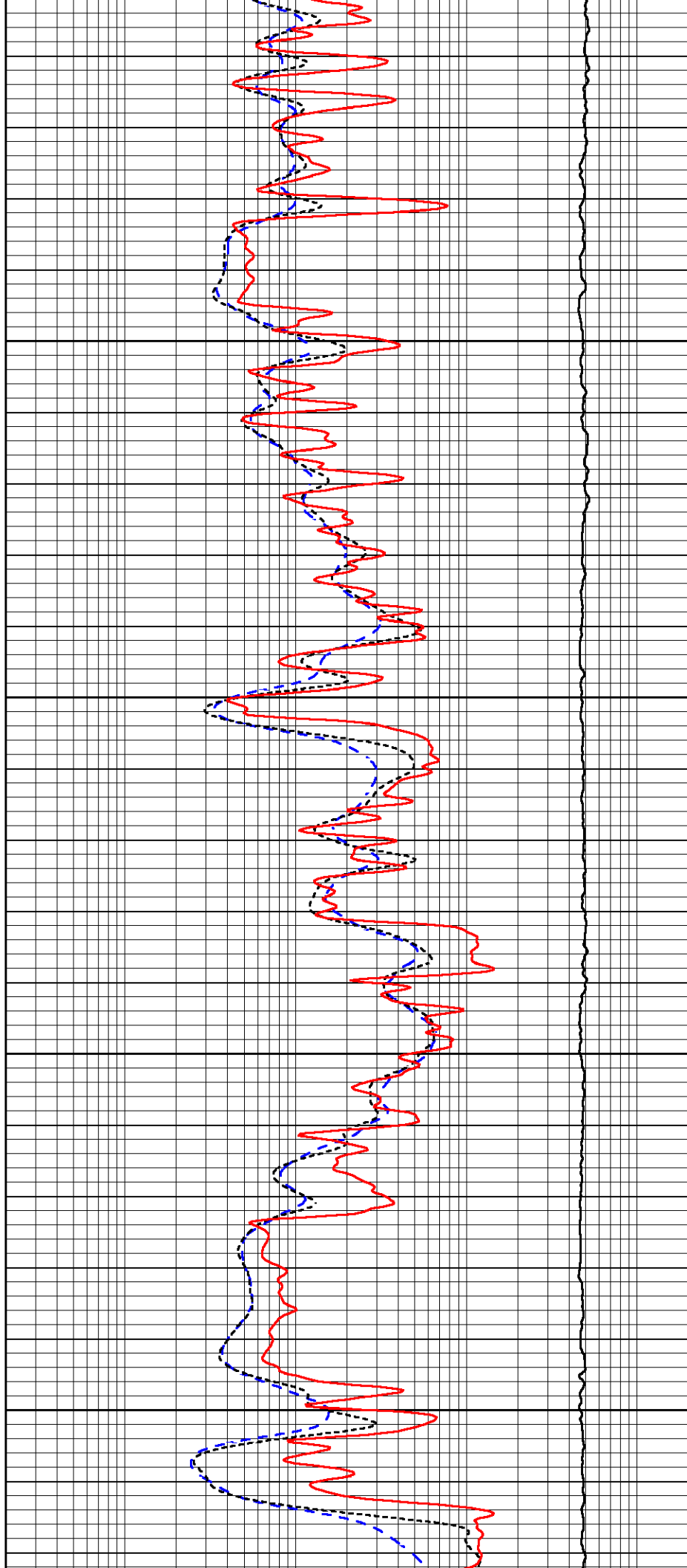


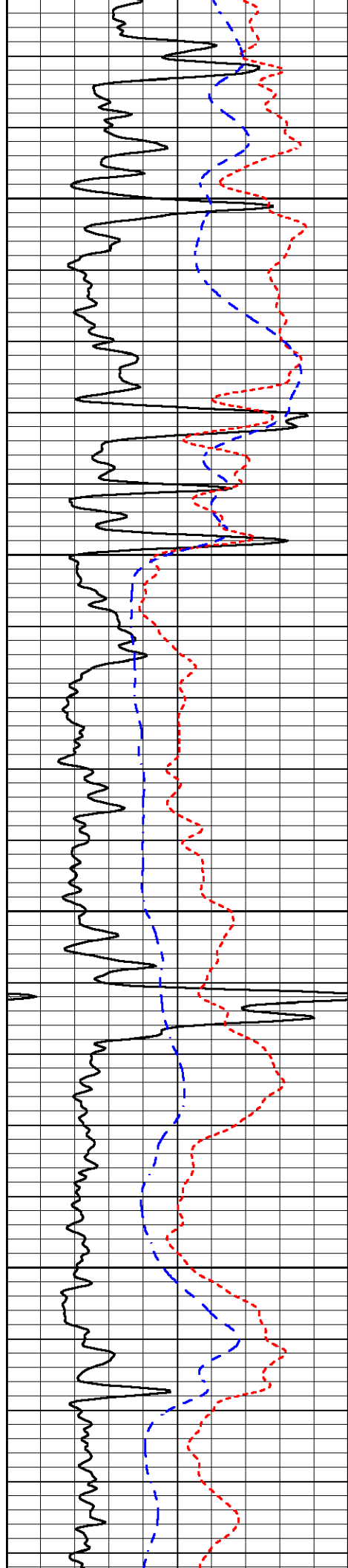
3250

3300

3350

3400



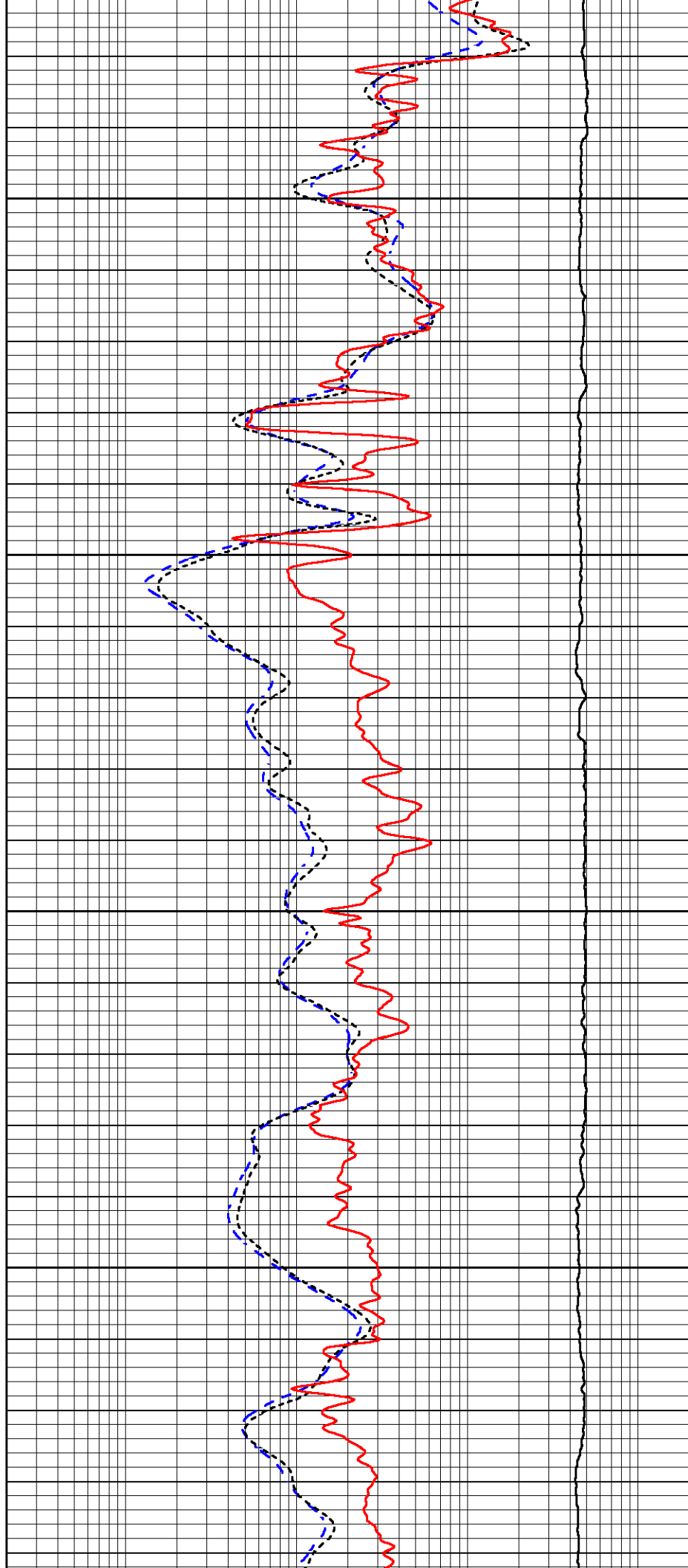


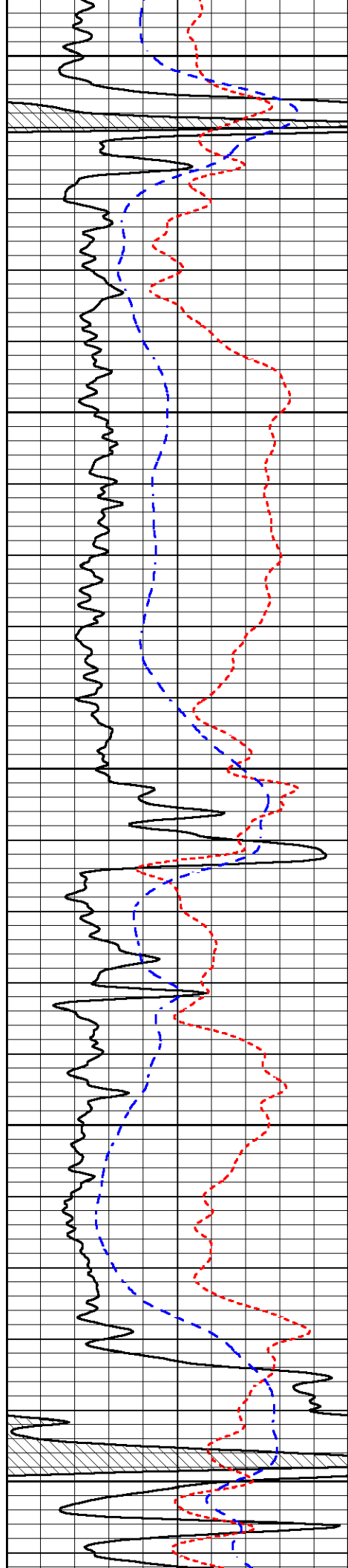
3450

3500

3550

3600





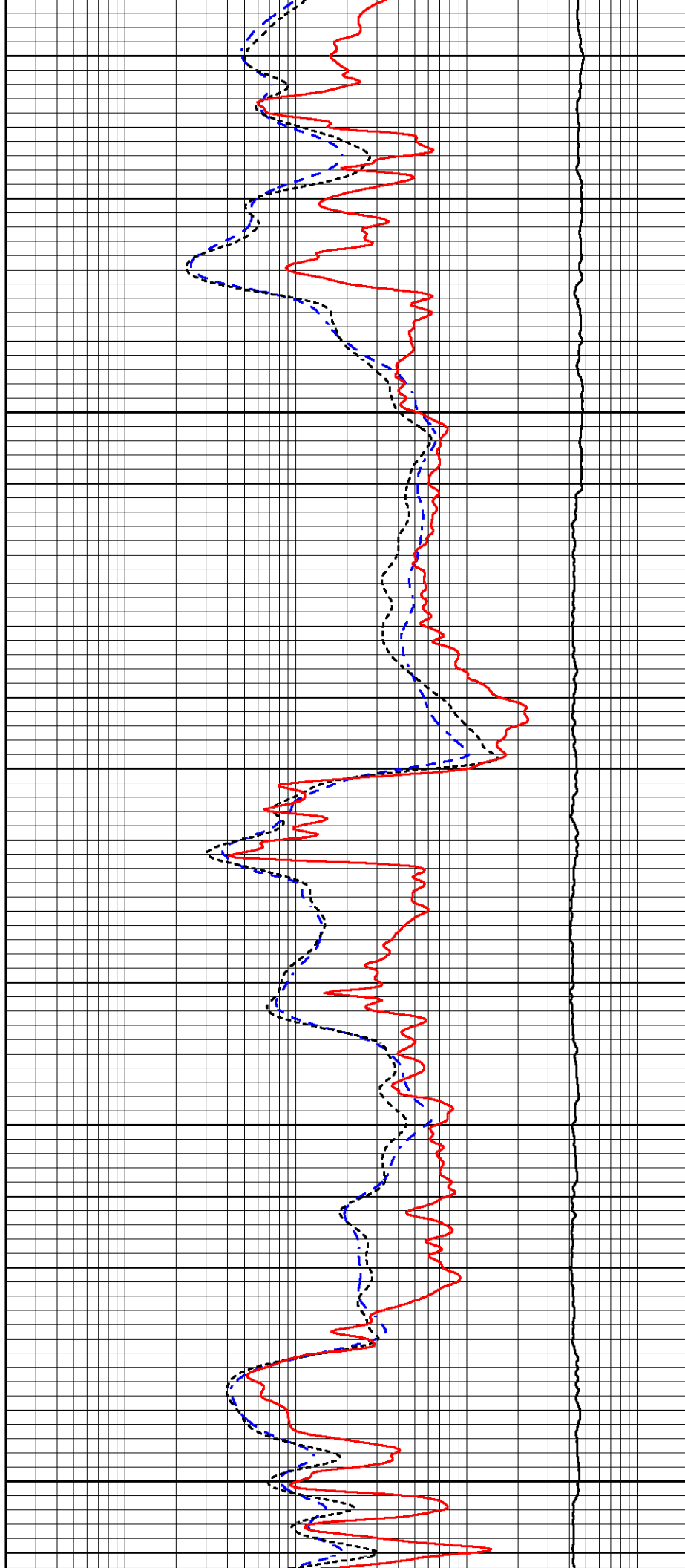
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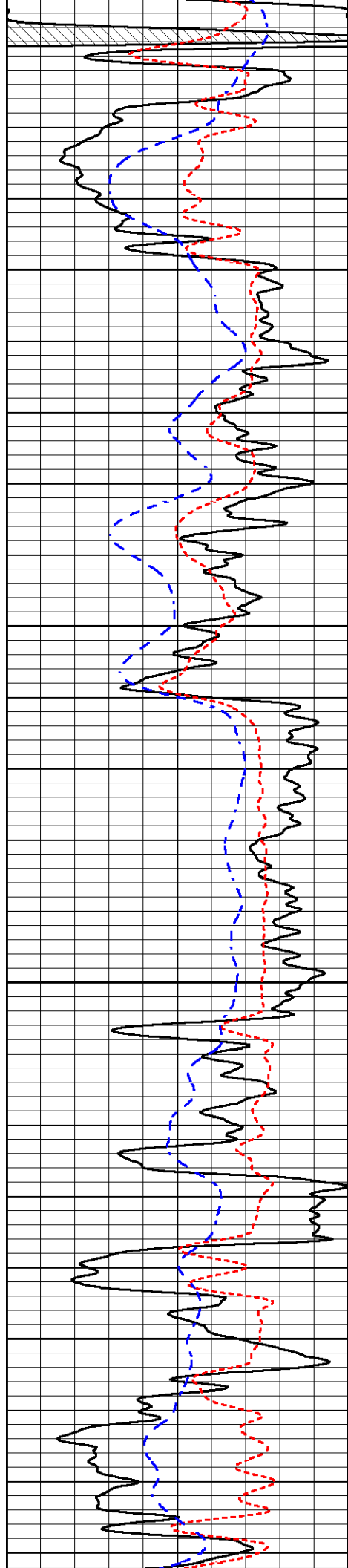
3700

3750

3800

3850



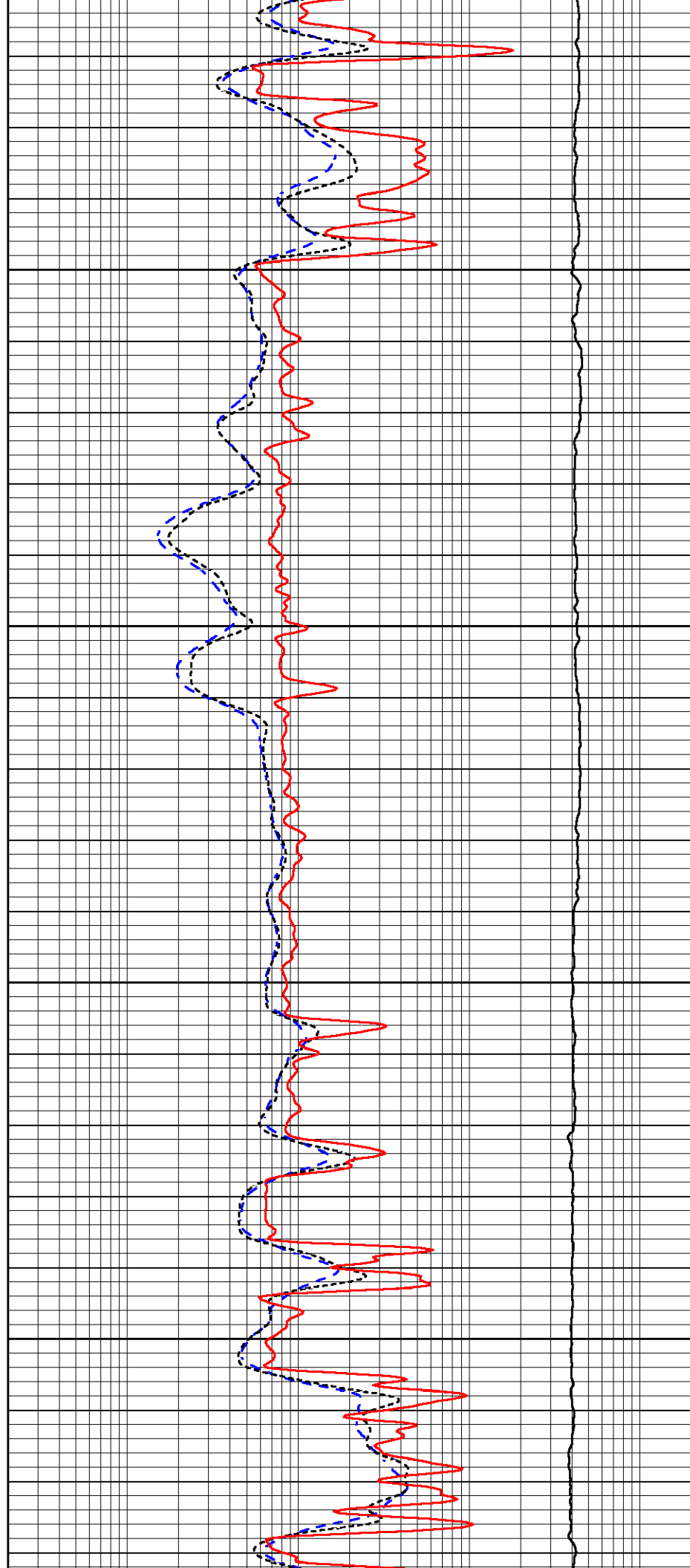


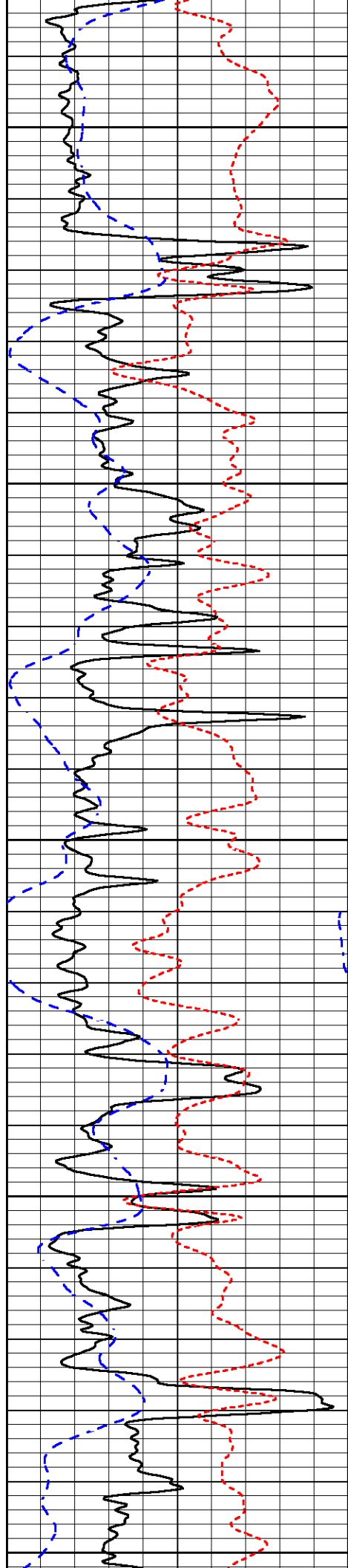
3900

3950

4000

4050





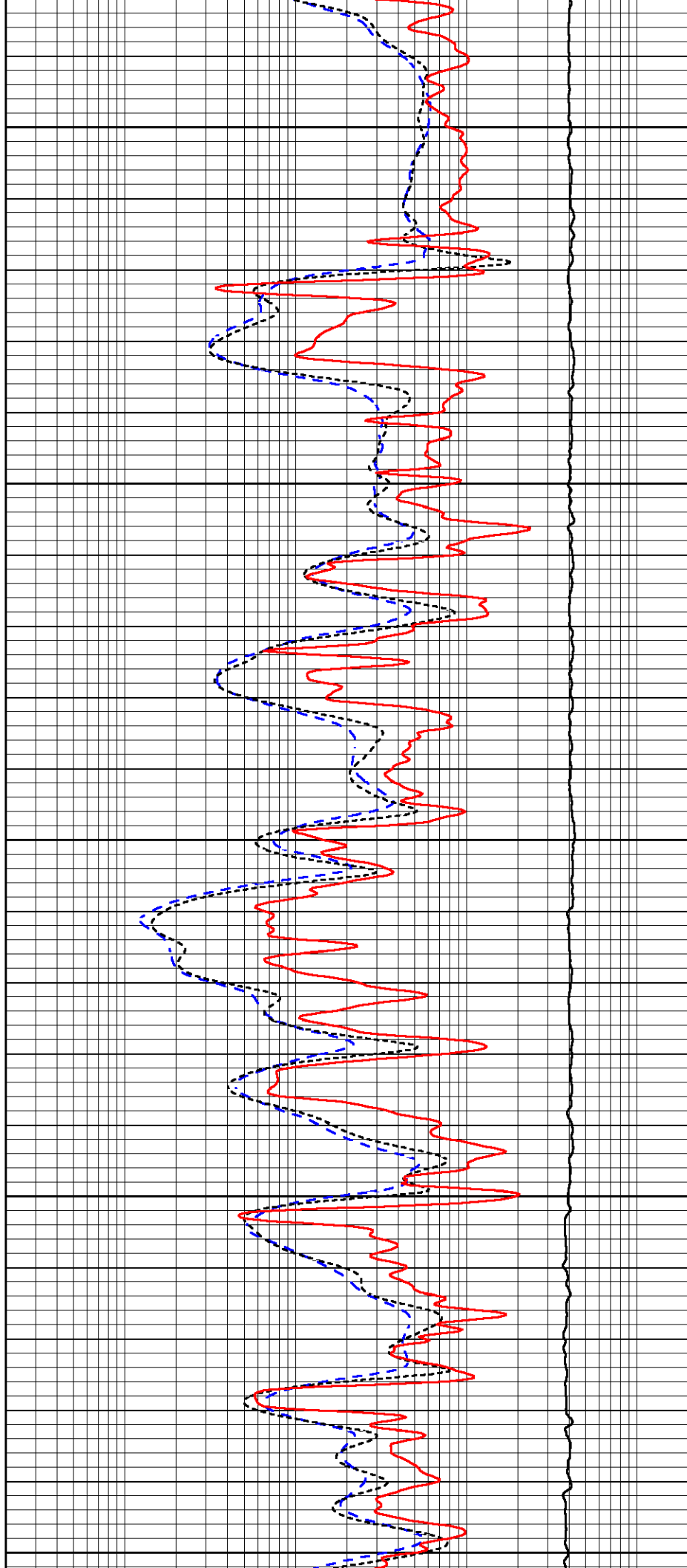
4100

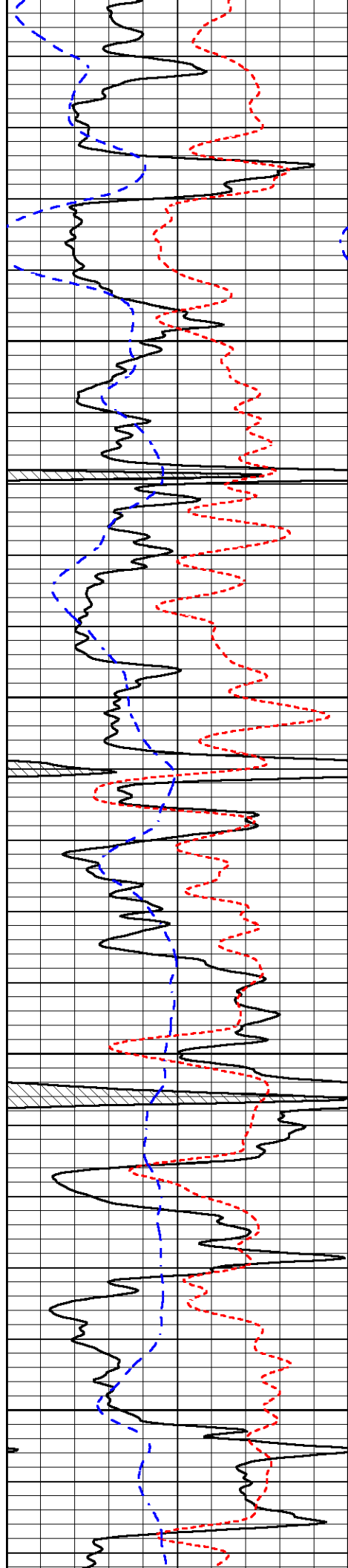
4150

4200

4250

4300



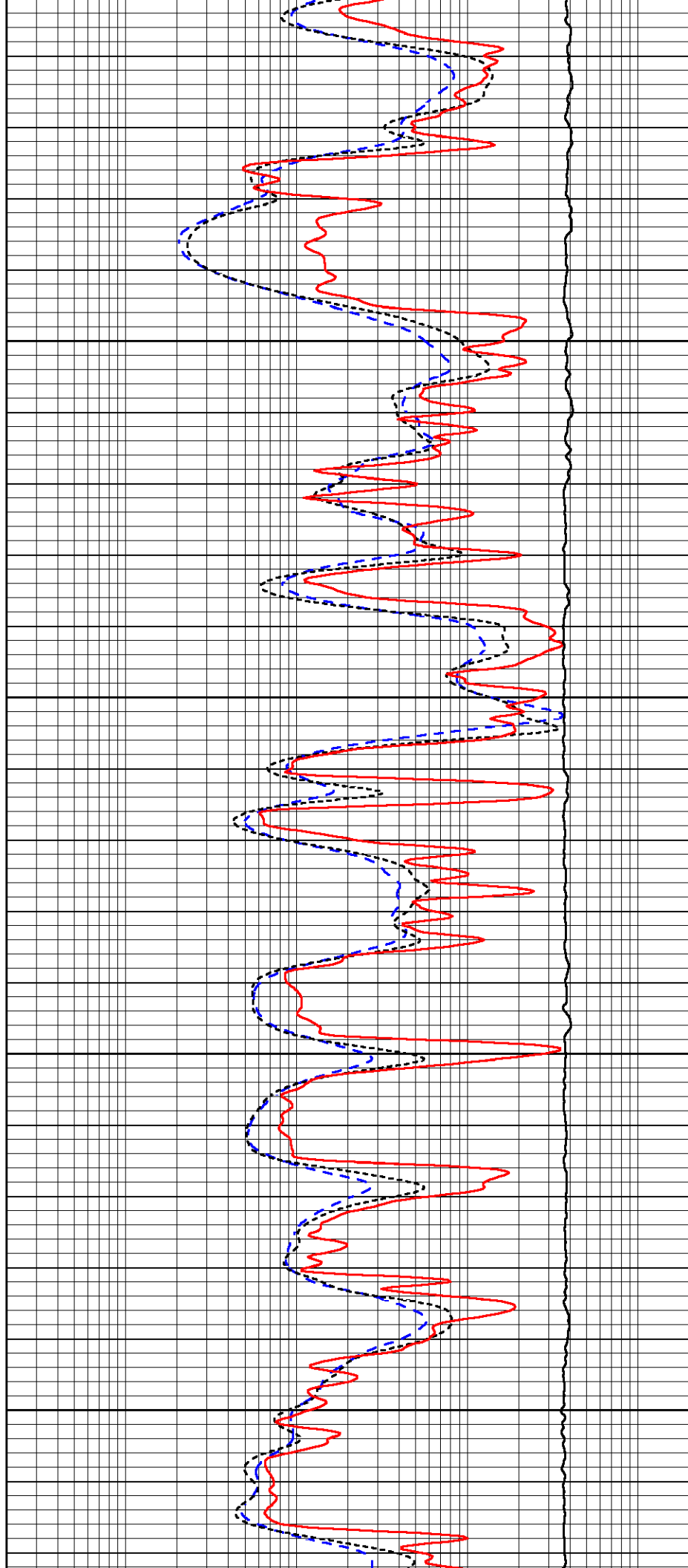


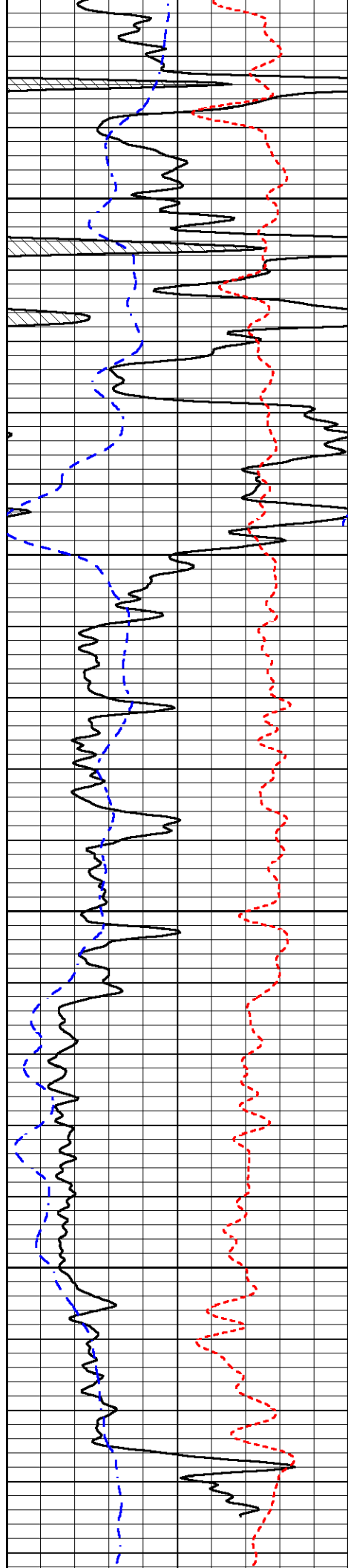
4350

4400

4450

4500



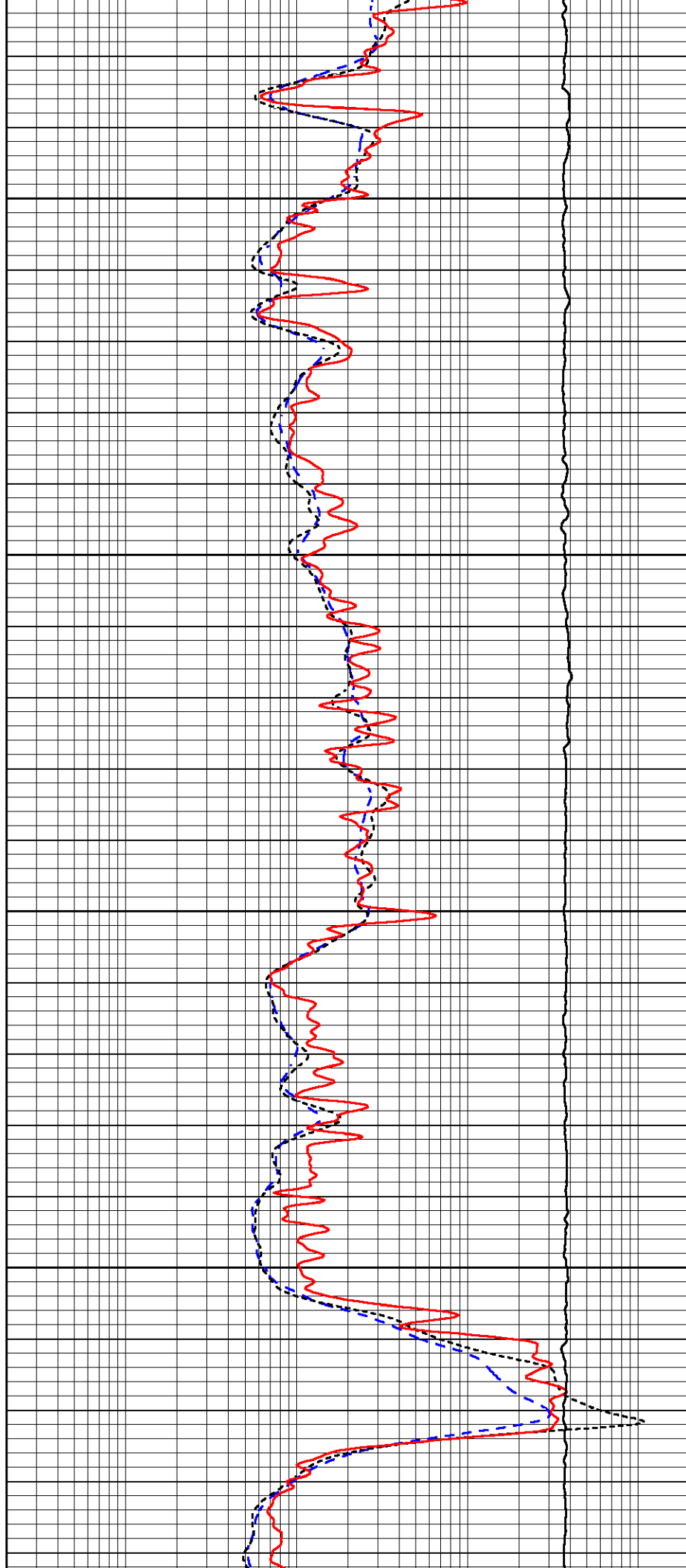


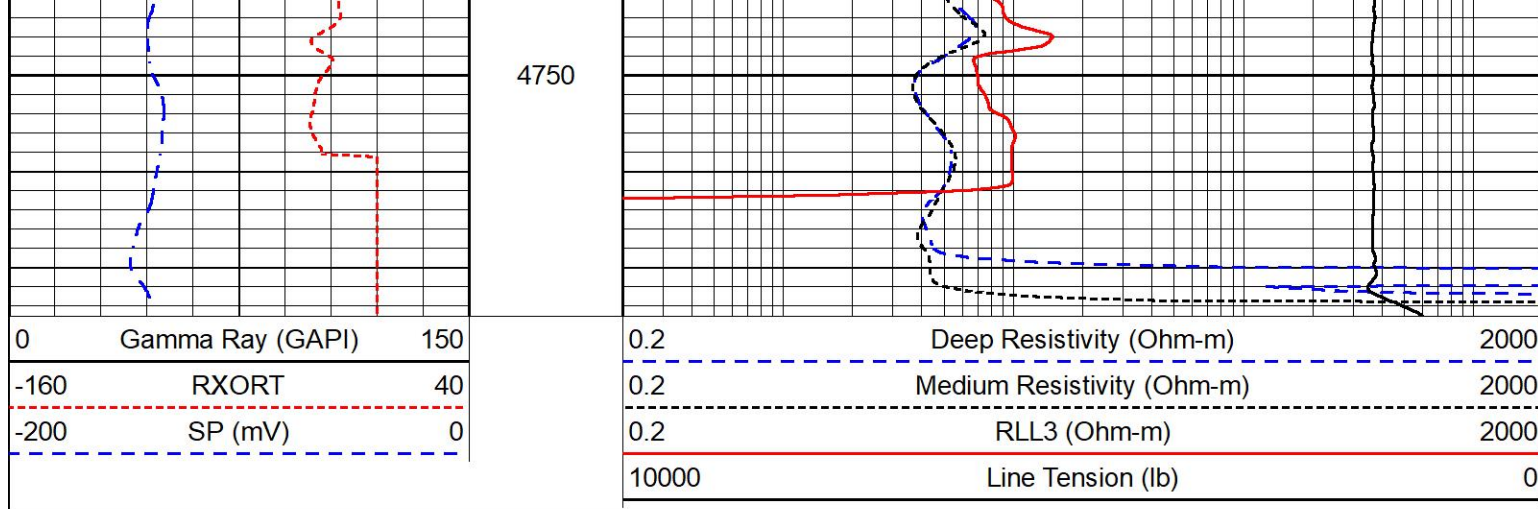
4550

4600

4650

4700

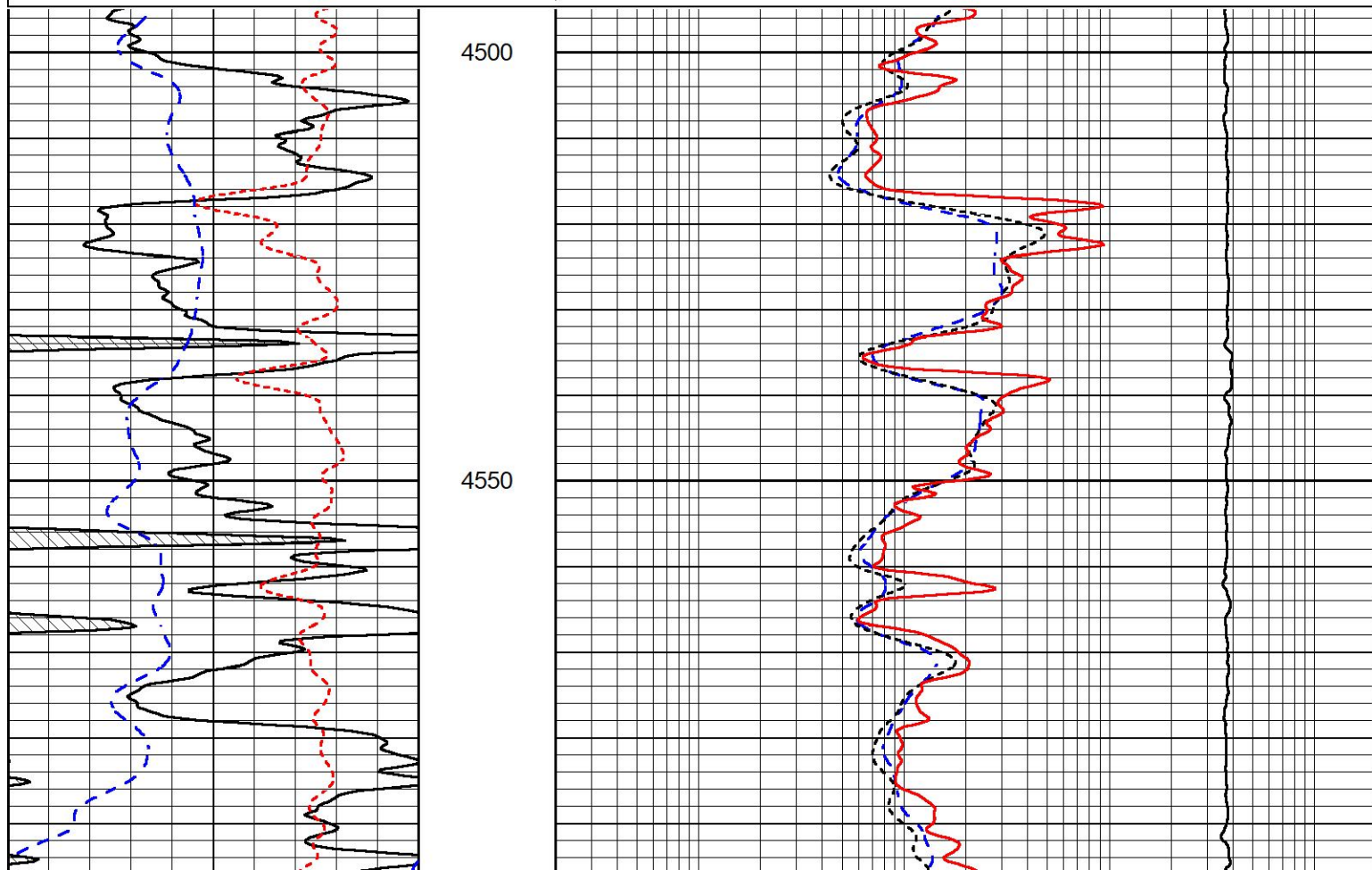
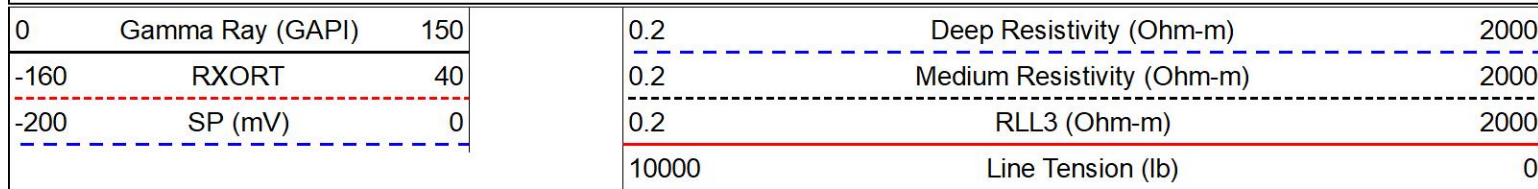


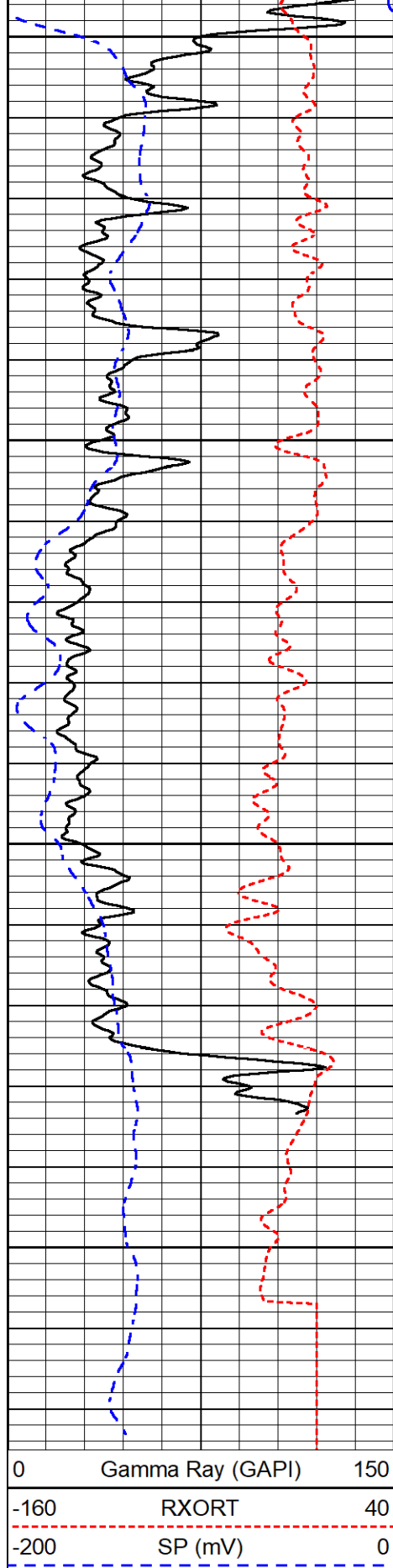


REPEAT SECTION

REPEAT PASS

Database File griffin_gary #2.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _dil
 Dataset Creation Tue Aug 08 15:30:18 2023
 Charted by Depth in Feet scaled 1:240



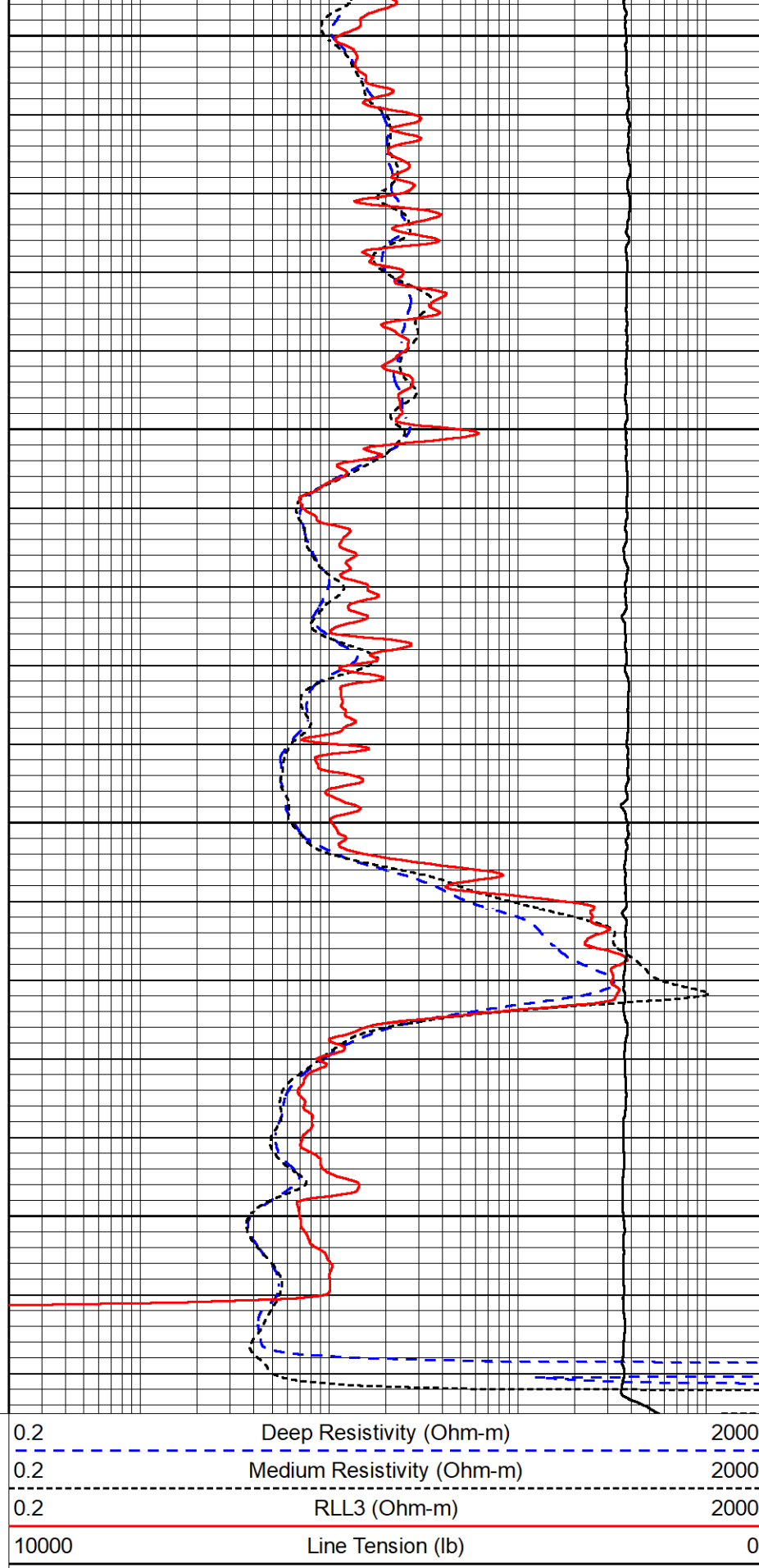


4600

4650

4700

4750



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

Calibration Report

Database File griffin_gary #2.db
Dataset Pathname StkMI/pass3.1
Dataset Creation Tue Aug 08 16:04:29 2023

Dual Induction Calibration Report

Serial-Model: 507-M&W
Surface Cal Performed:

		Readings		References		Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	68.570	638.100		0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191		0.000	255.800	mmho/m	0.470	-84.000

Microlog Calibration Report

Serial-Model: 401-PSIML
Performed: Mon Jun 5 16:37:07 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-0.7000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-0.7500
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.7500

LITHODENSITY Calibration Report

Serial Number: 704-10
Tool Model: STEP LITHO
Performed: Fri Jun 23 15:26:01 2023

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	51	54	202	252	21	70	42	1	cps
LS:	85	96	363	462	53	147	97	3	cps
Aluminum:									
SS:	870	1018	2321	2004	37	71	43	2	cps
LS:	1057	1828	3315	1570	61	147	91	5	cps
Magnesium:									
SS:	1459	1669	3829	2914	42	70	46	3	cps
LS:	4526	7550	13047	4982	98	135	93	13	cps
Aluminum+Iron:									
SS:	553	719	1939	1750	37	72	45	2	cps
LS:	613	1297	2812	1404	60	146	96	4	cps

	Density			PE		
	Actual	Calibrated		Actual	Calibrated	Quality
Background:						
SS:						0.245
LS:						0.205
Aluminum:						
SS:	2.6000	2.6000	g/cc			0.240
LS:	2.6000	2.6000	g/cc			0.236
Magnesium:						
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.210
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.184
Aluminum+Iron:						
SS:					6.1800	0.228
LS:					6.1800	0.206

Before Survey

Before Survey

Performed: Wed Feb 9 13:15:42 2022

SS:	0	0	0	0	0	0	0	cps	
LS:	1370	1580	3705	3037	48	80	50	4	cps

After Survey

Performed: Wed Feb 9 13:16:02 2022

SS:	0	0	0	0	0	0	0	cps	
LS:	1400	1600	3800	3100	60	100	70	6	cps

Caliper:	Reference:	Reading:
Small Ring:	6.0 in	0.2
Large Ring:	15.0 in	0.8
Gain:	16.161	
Offset:	0.890	

Compensated Neutron Calibration Report

Serial Number:	207
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:	Mon Aug 7 20:46:01 2023

Calibrator Value:	500.0	GAPI
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Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps

Sensitivity:	0.6000	GAPI/cps
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Company	Griffin Management LLC
Well	Gary #2
Field	Turkey Creek East
County	Barber
State	Kansas