

DUAL INDUCTION LOG

Company NEC OPERATING - KANSAS, LLC.

Well GAMBLE #2

Field GARFIELD

County PAWNEE State KANSAS

Location: API #: 15-145-21895-0000

Other Services

1426 FSL & 2145 FWL
SW - SE - NE - SW

SEC 8 TWP 23S RGE 17W

CDL/CNL
PE/MEI

Permanent Datum GROUND LEVEL Elevation 2094
Log Measured From KELLY BUSHING 13' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2107
D.F. 2105
G.L. 2094

Date 6/13/24

Run Number ONE

Depth Driller 4625

Depth Logger 4628

Bottom Logged Interval 4626

Top Log Interval 00

Casing Driller 8.625 @ 800

Casing Logger 811

Bit Size 7.875

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.5/50

pH / Fluid Loss 10.0/9.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .500 @ 80F

Rmf @ Meas. Temp .375 @ 80F

Rmc @ Meas. Temp .600 @ 80F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .328 @ 122F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 9.45 A.M.

Maximum Recorded Temperature 122F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By COLE ROBBEN

Witnessed By KEATON JONES

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:

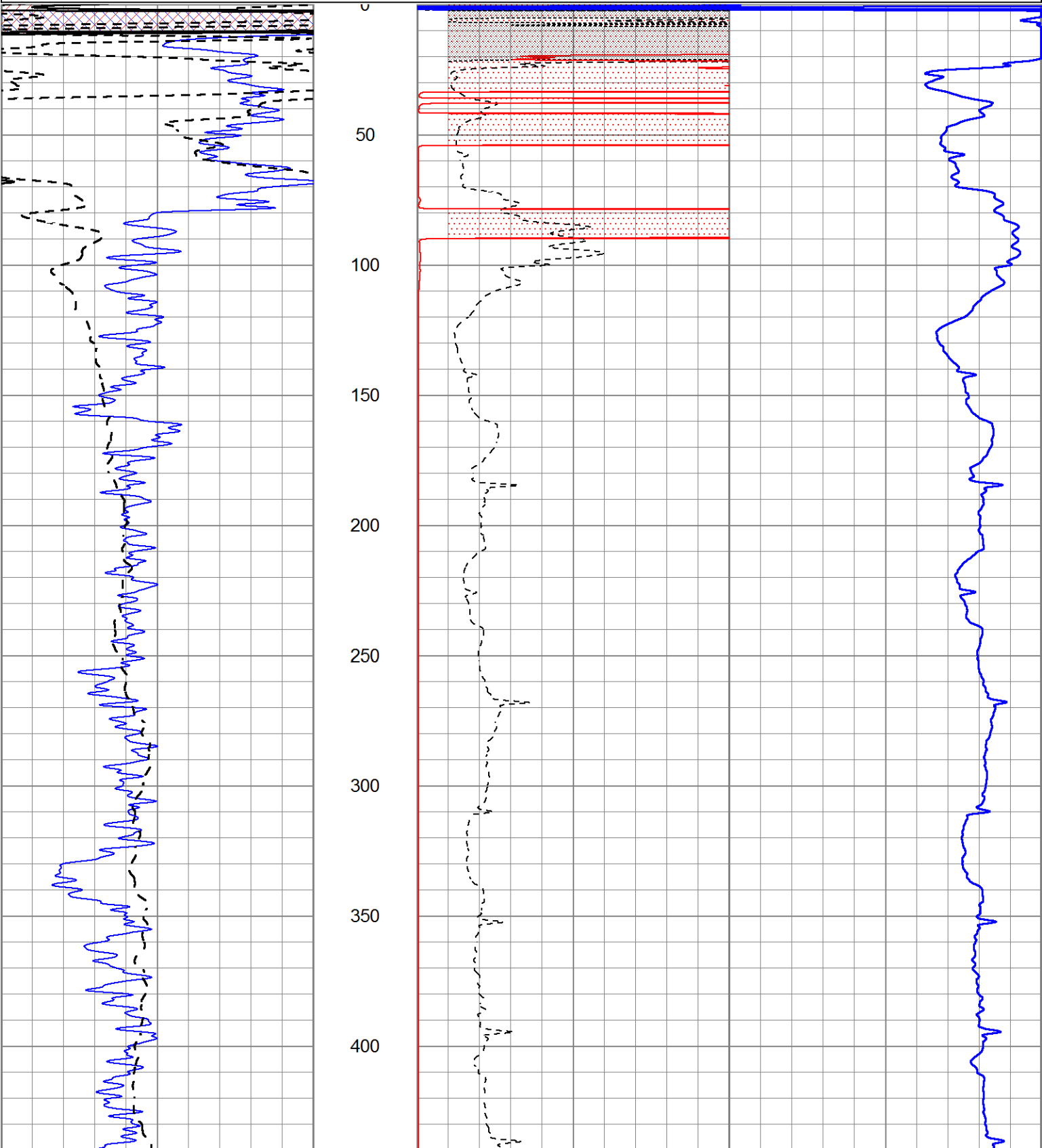
FROM GARFIELD, KANSAS GO SOUTH ON 180TH AVE FOR ONE MILE, EAST INTO 3/4 MILE

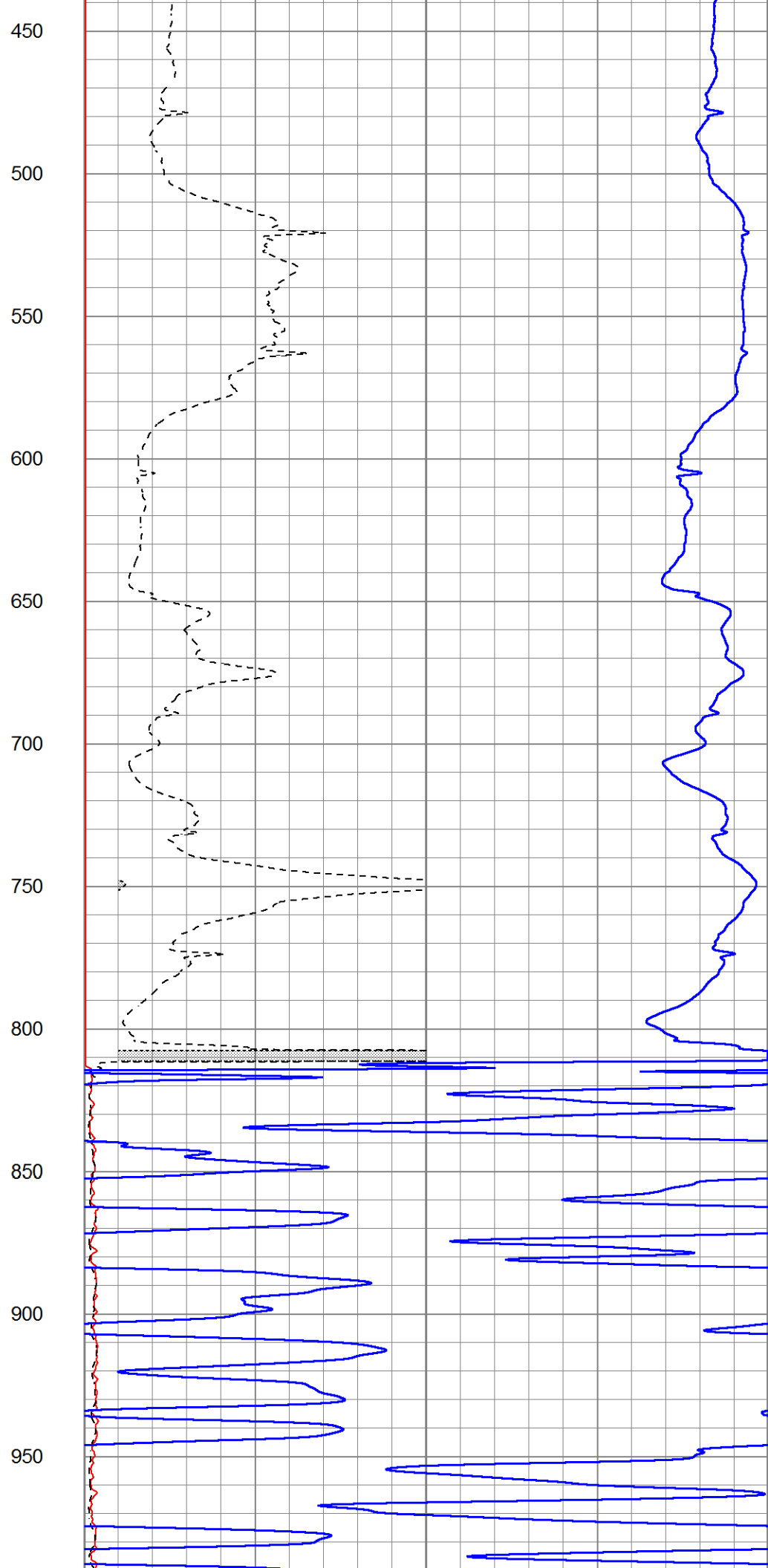
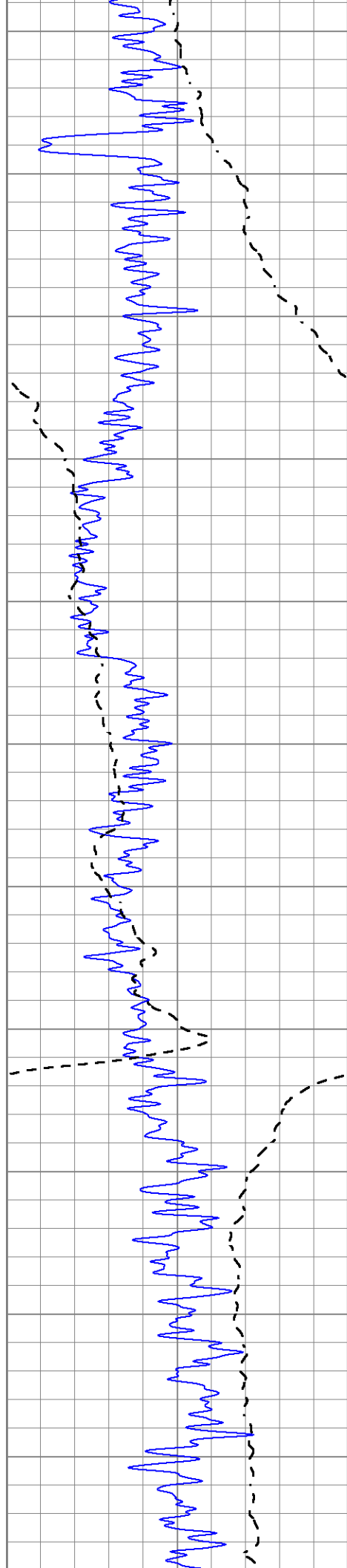


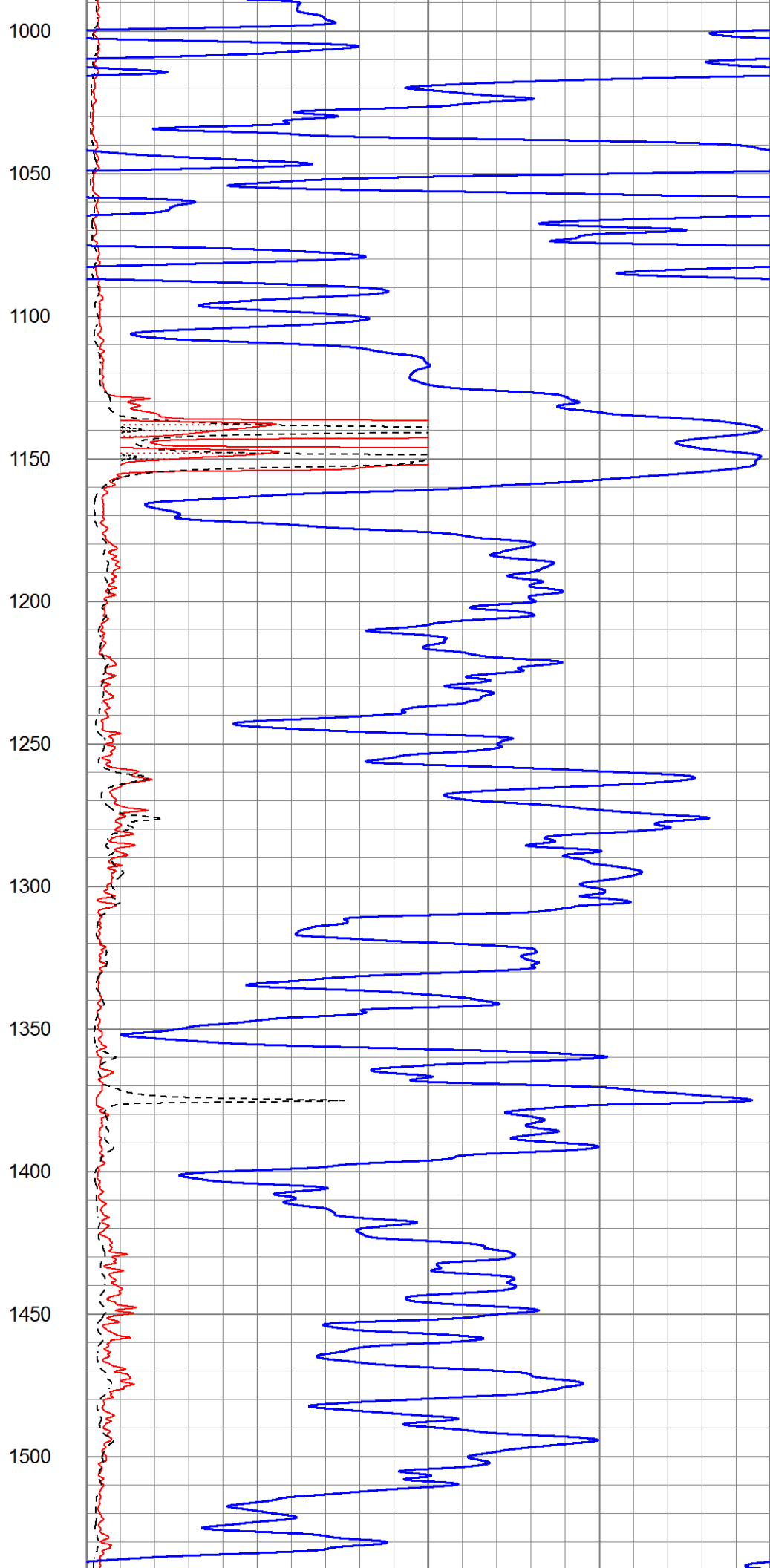
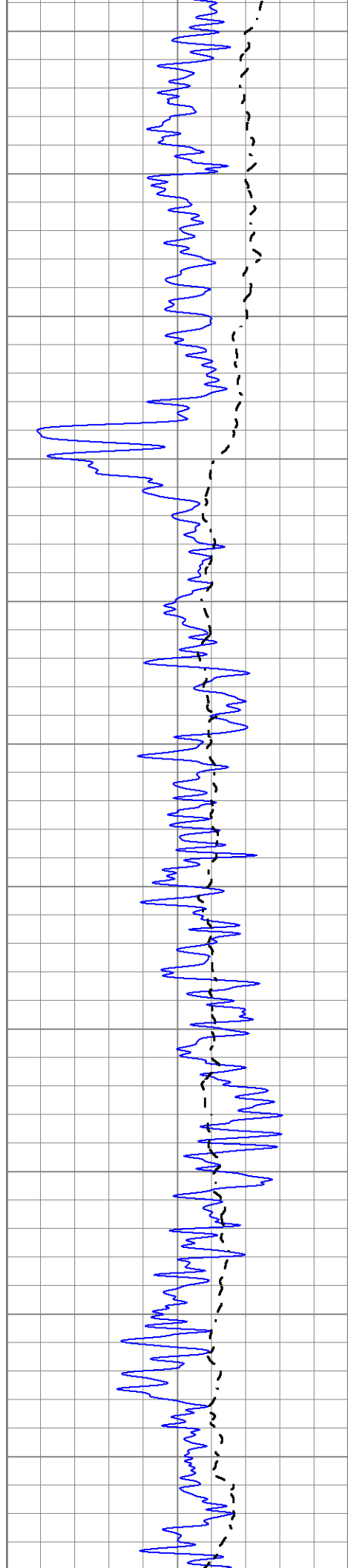
MAIN SECTION

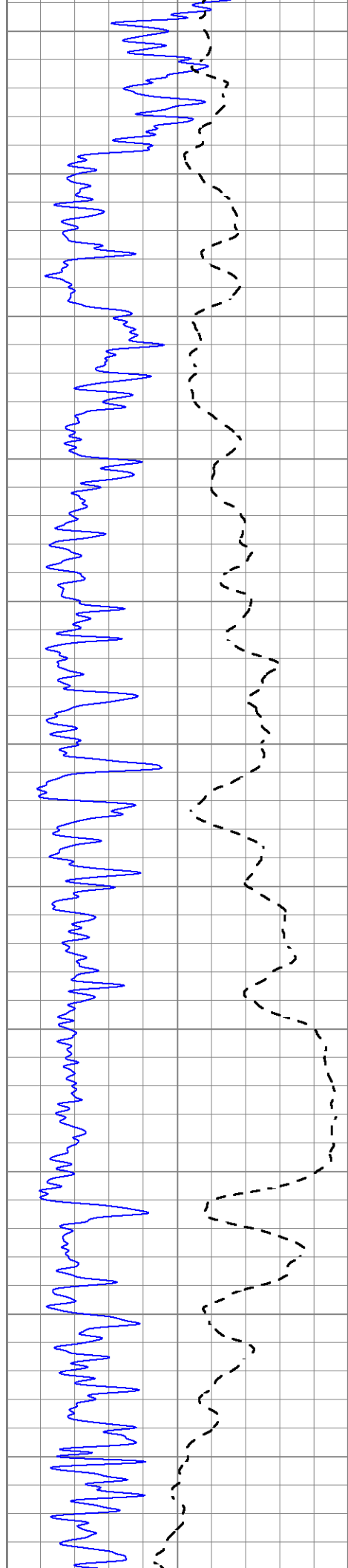
Database File	8785pe.db
Dataset Pathname	pass5M
Presentation Format	_dil2
Dataset Creation	Thu Jun 13 12:00:30 2024
Charted by	Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
-----			0	Deep Induction (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500









1550

1600

1650

1700

1750

1800

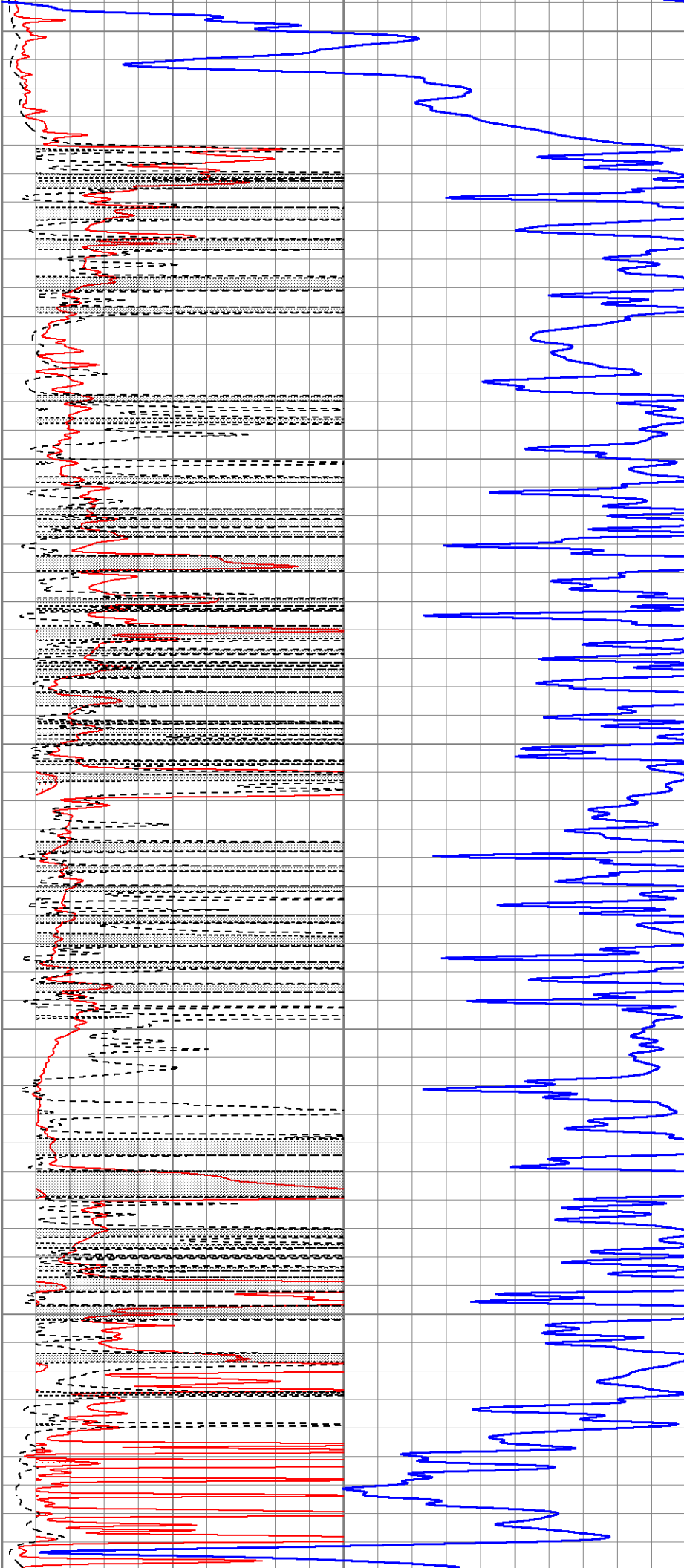
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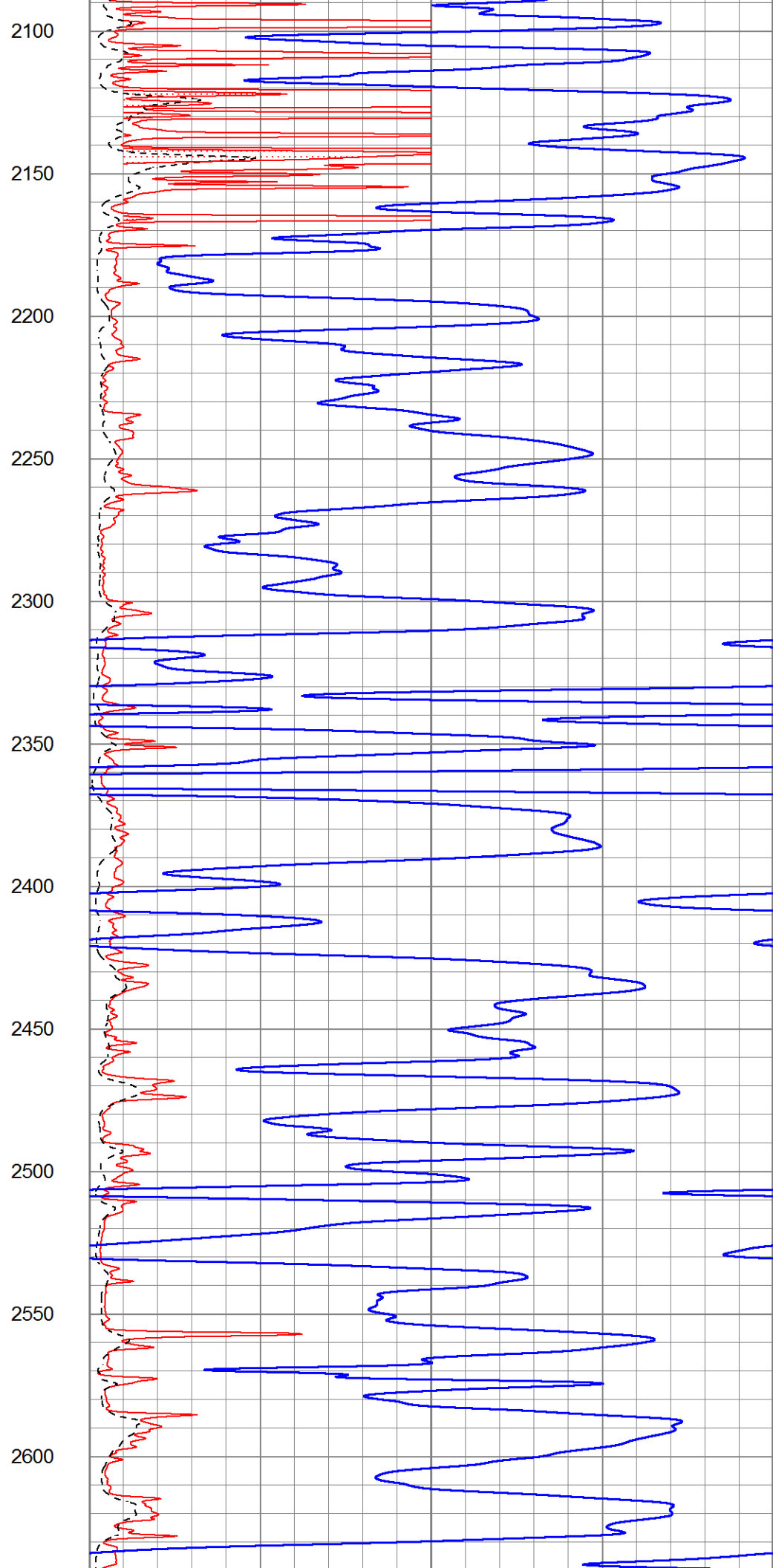
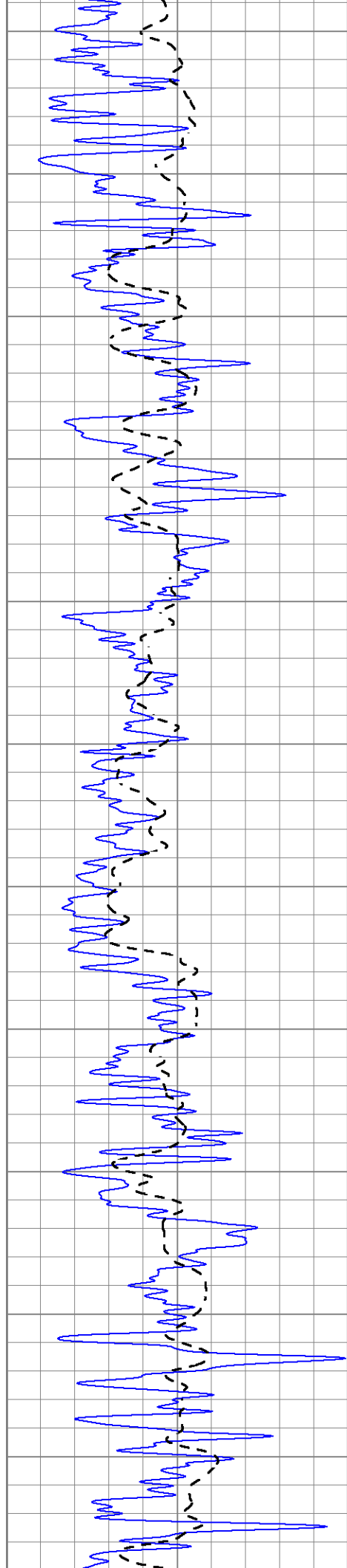
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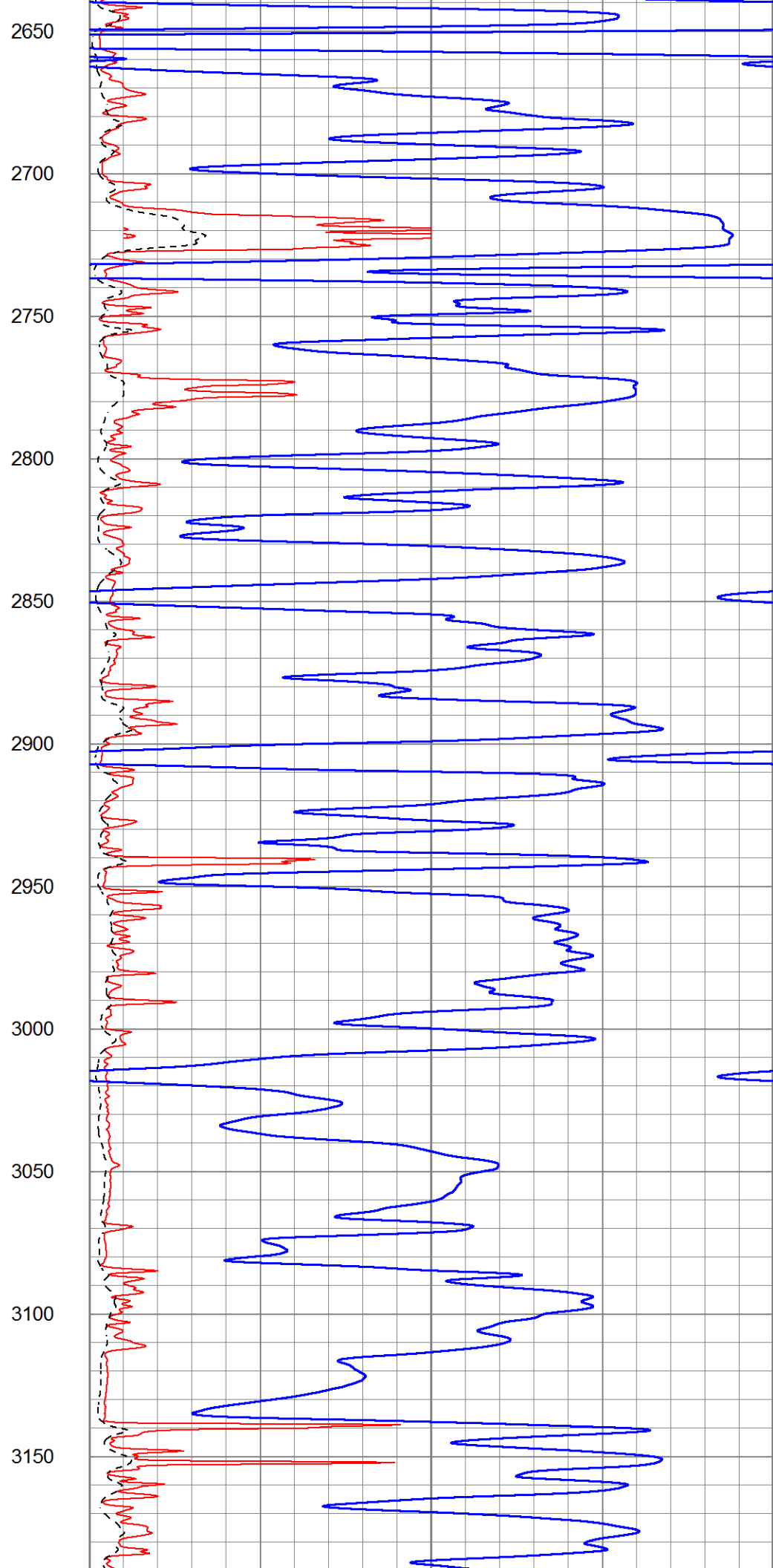
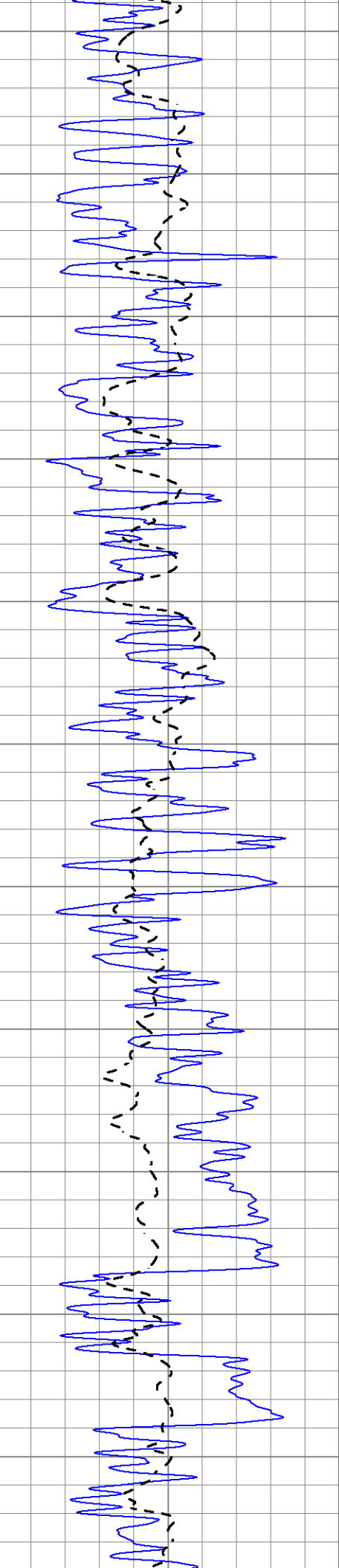
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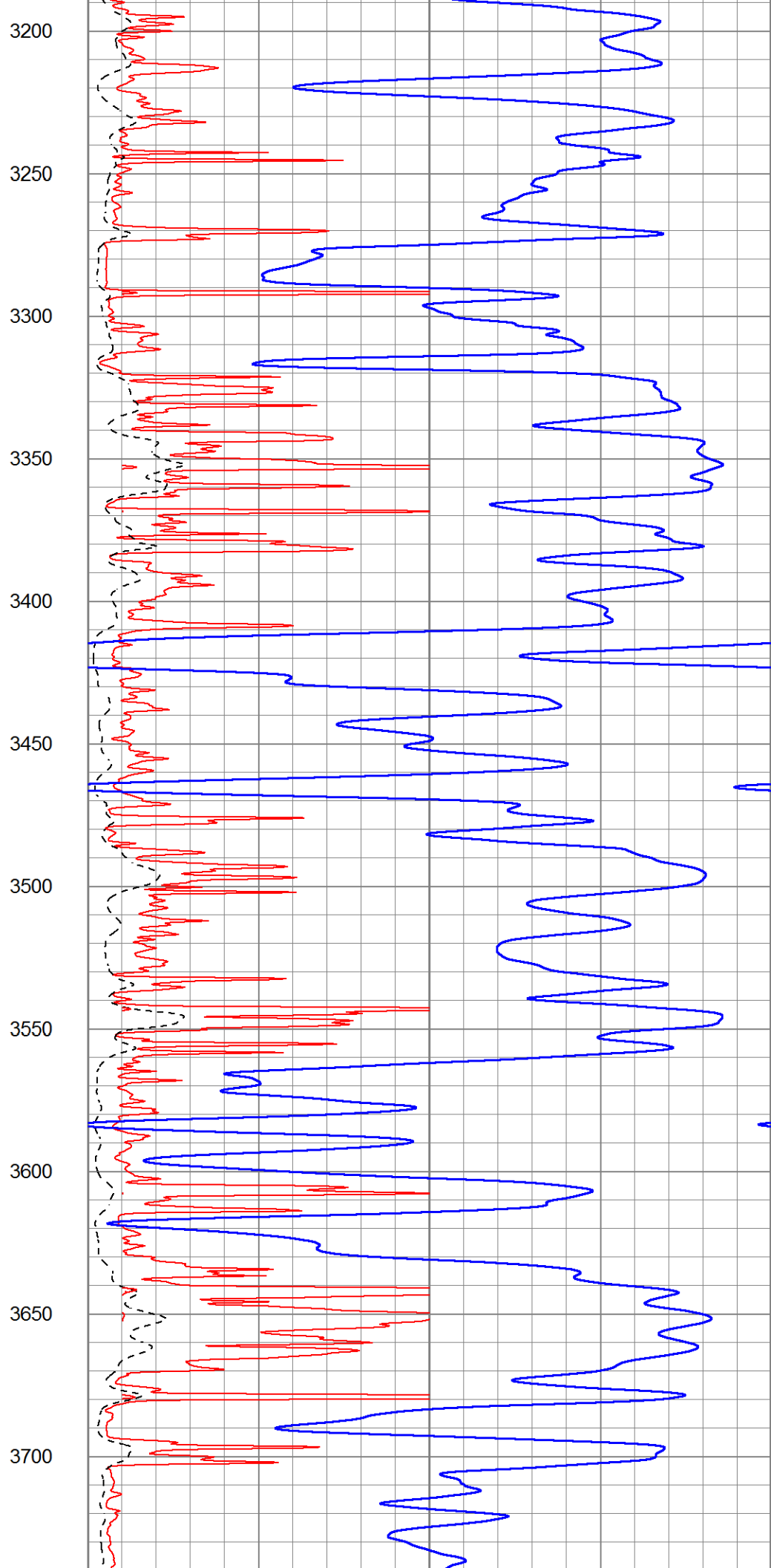
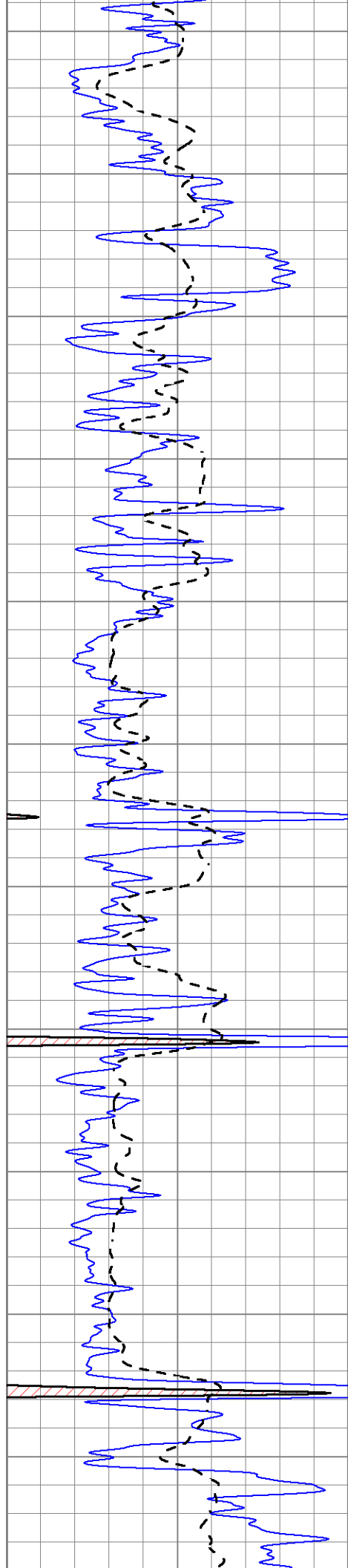
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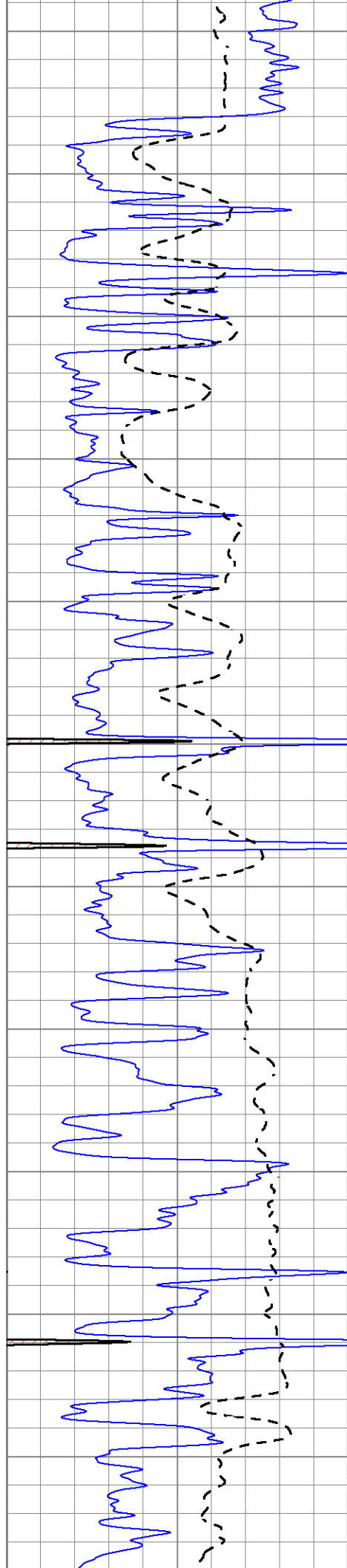
2050











3750

3800

3850

3900

3950

4000

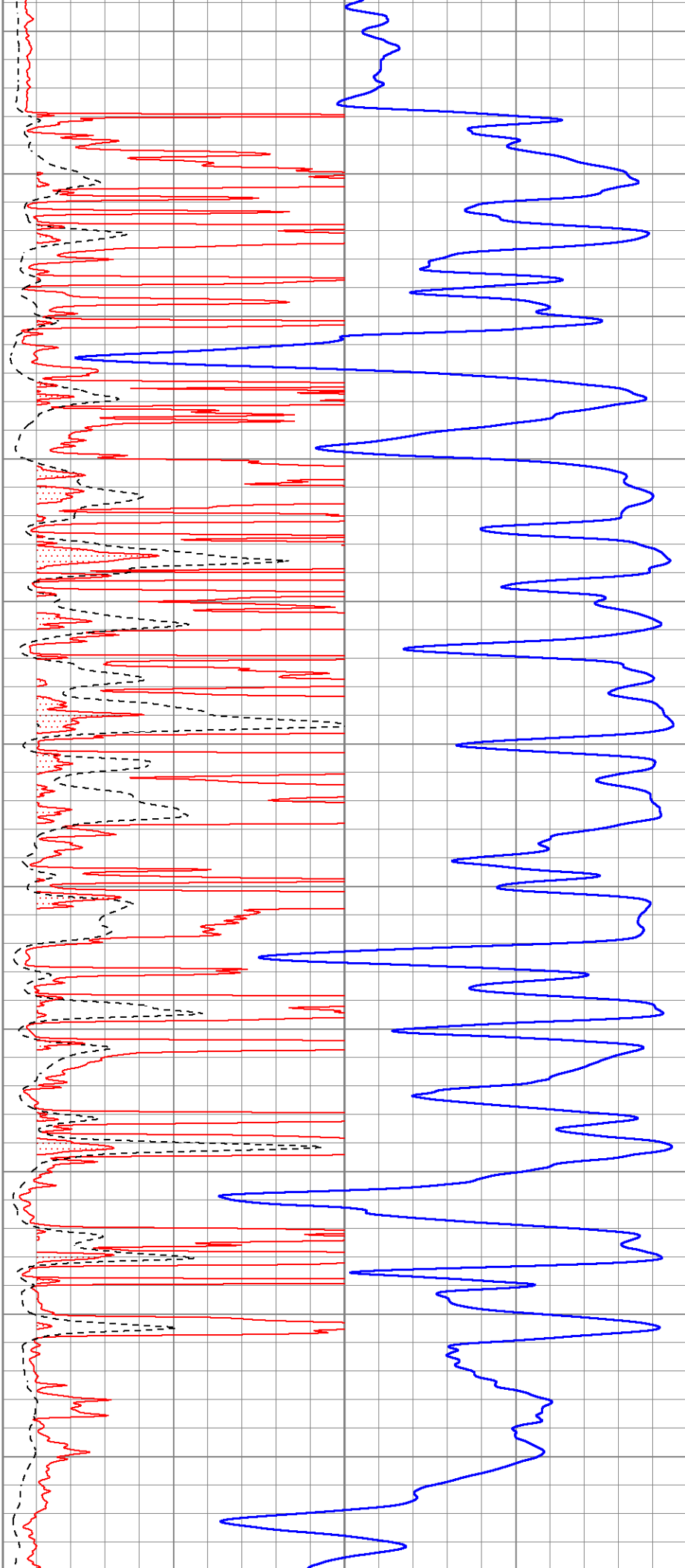
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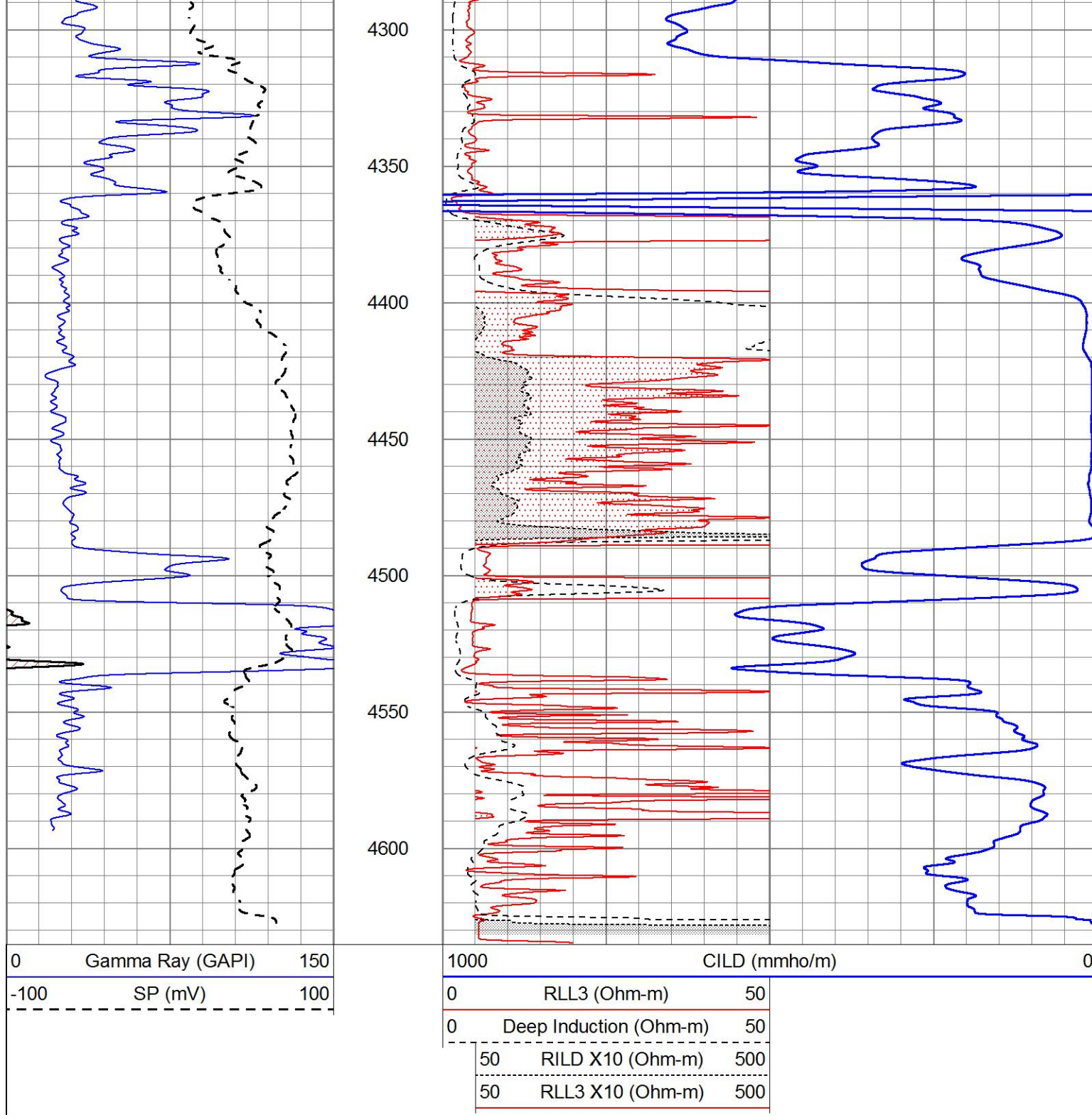
4100

4150

4200

4250

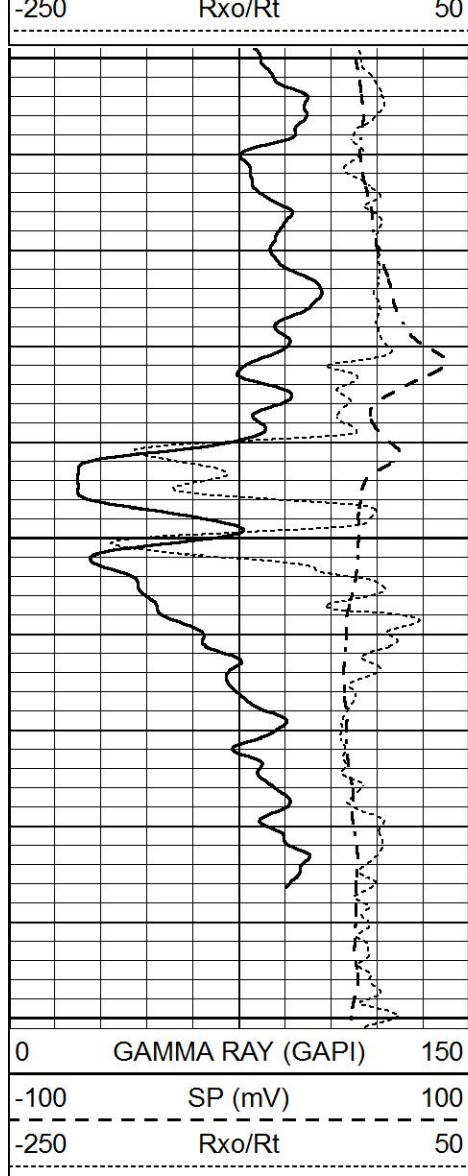




ANHYDRITE REPEAT

Database File 8785pe.db
Dataset Pathname pass2ANHYRPT
Presentation Format _dil
Dataset Creation Thu Jun 13 11:05:42 2024
Charted by Depth in Feet scaled 1:240

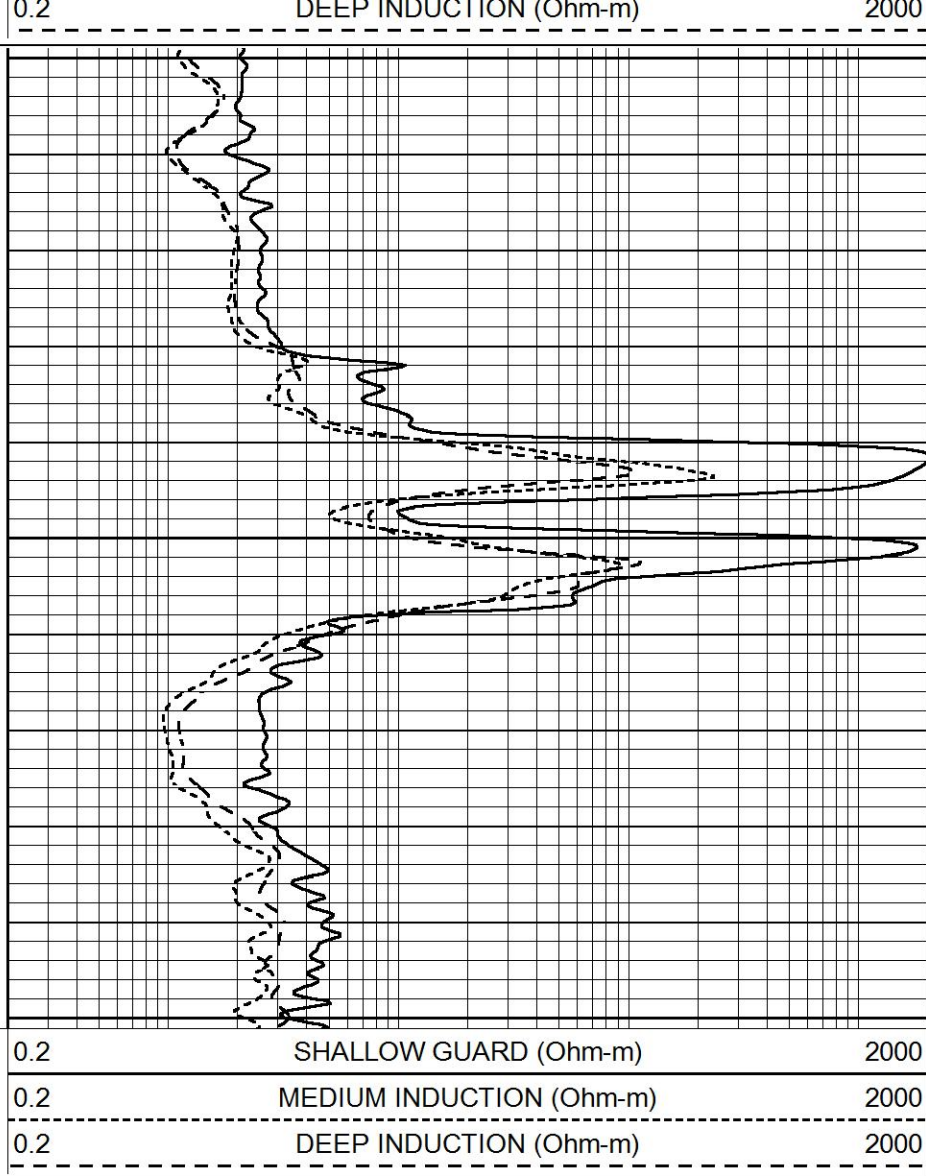
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0			0.2	DEEP INDUCTION (Ohm-m)	2000



1100

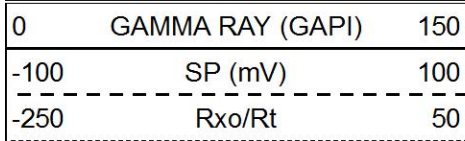
1150

1200

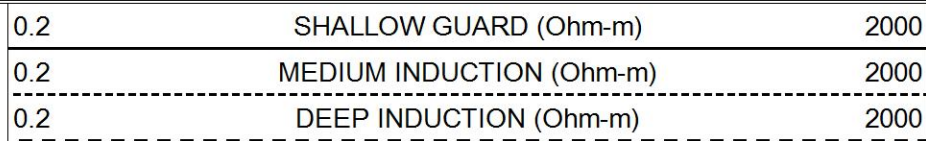


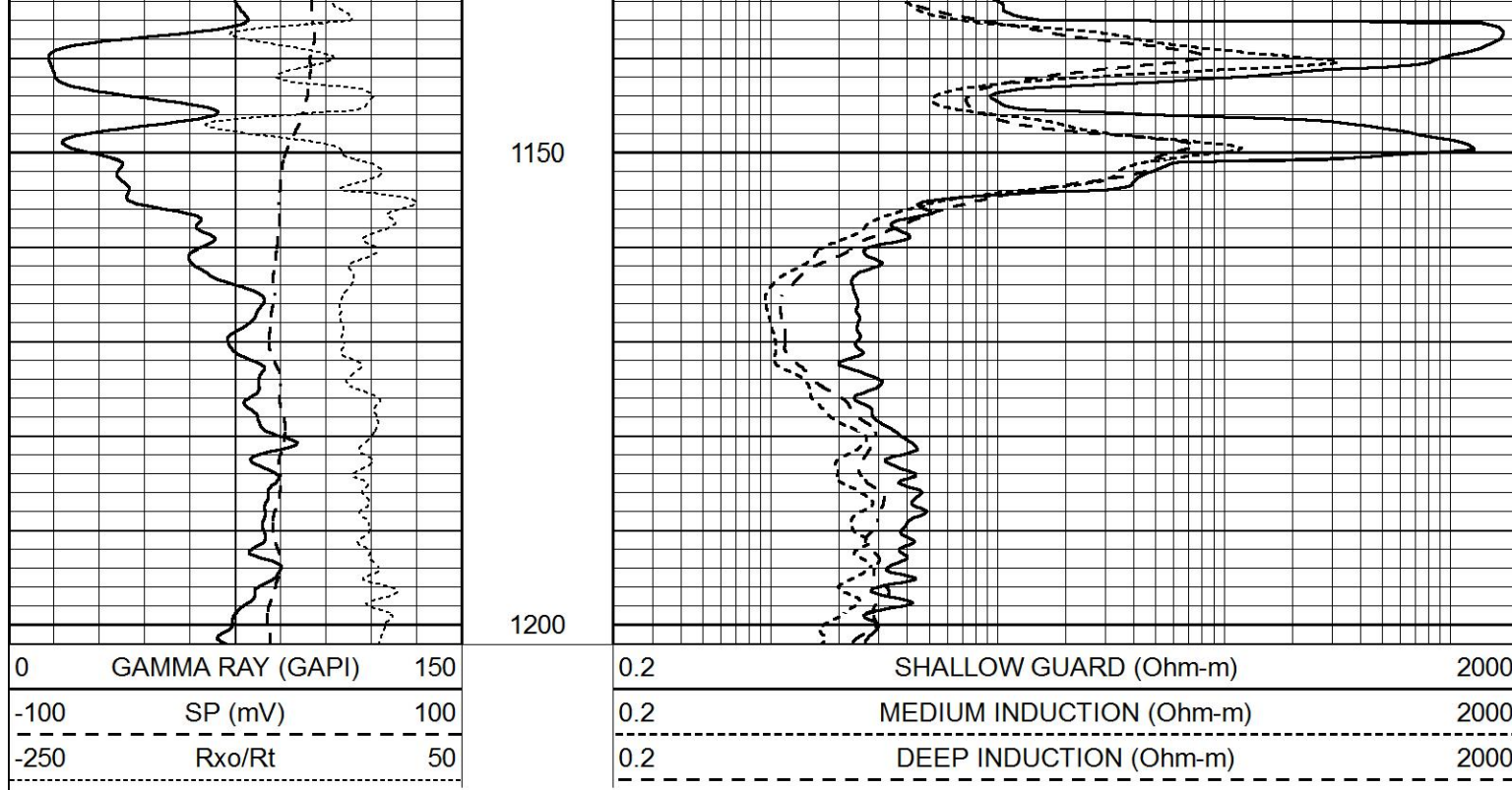
ANHYDRITE MAIN

Database File 8785pe.db
 Dataset Pathname pass5AM
 Presentation Format _dil
 Dataset Creation Thu Jun 13 11:42:34 2024
 Charted by Depth in Feet scaled 1:240



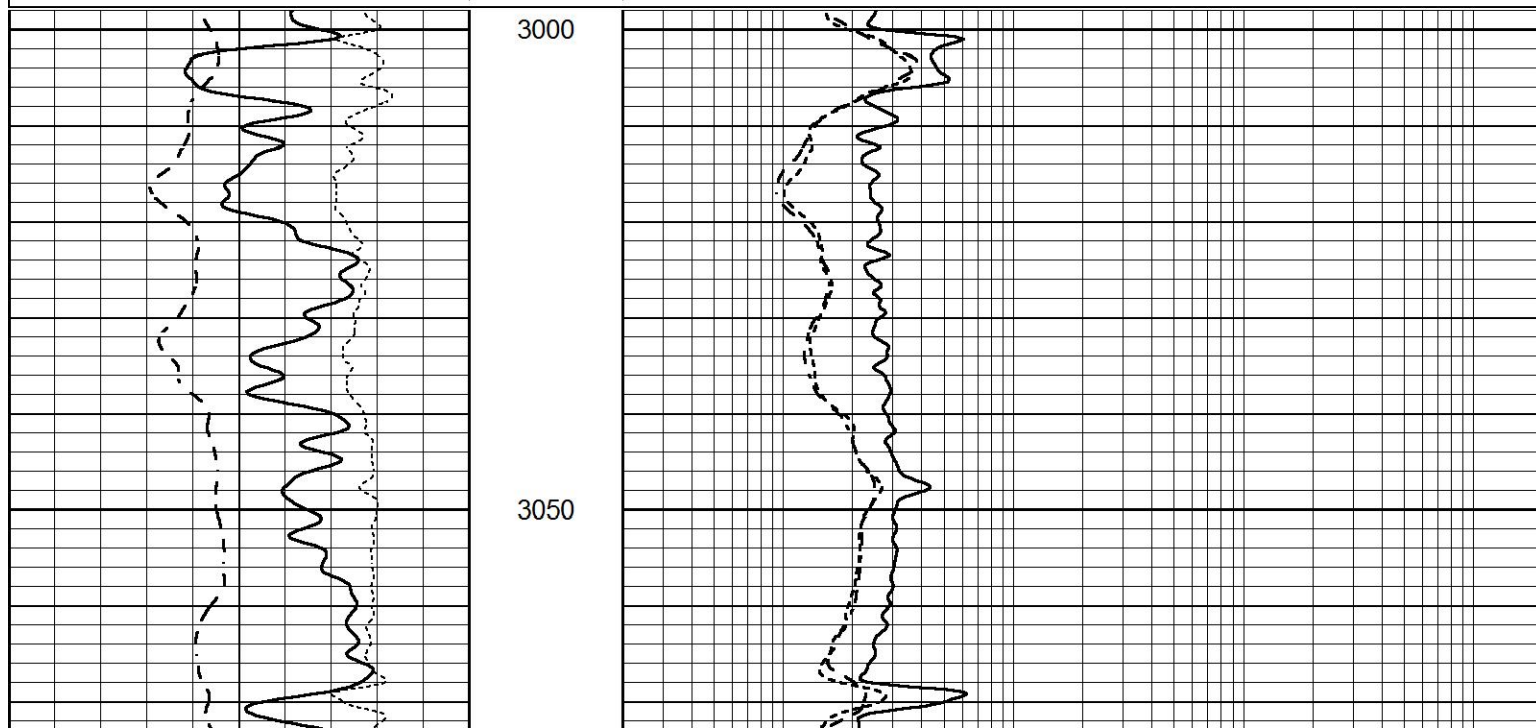
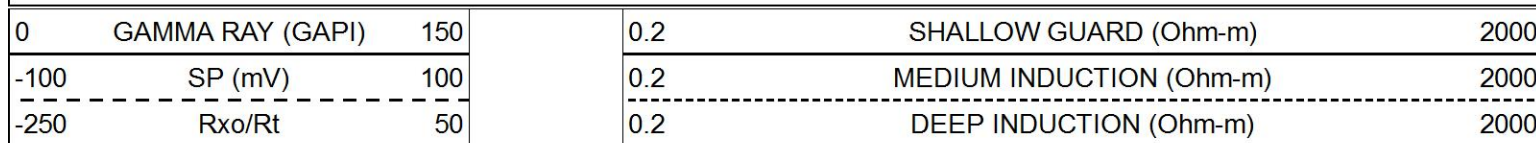
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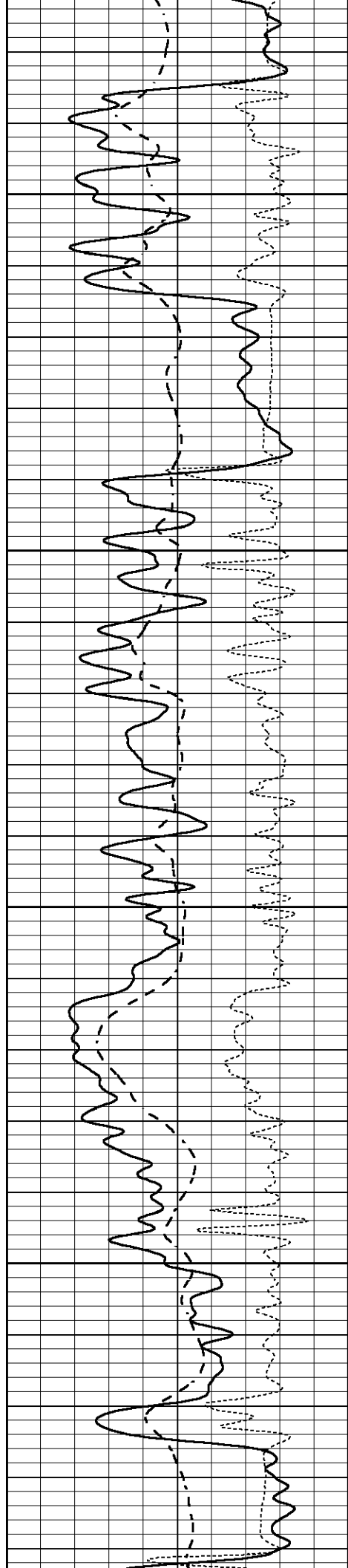




MAIN SECTION

Database File 8785pe.db
Dataset Pathname pass5DT
Presentation Format _dil
Dataset Creation Thu Jun 13 11:02:32 2024
Charted by Depth in Feet scaled 1:240



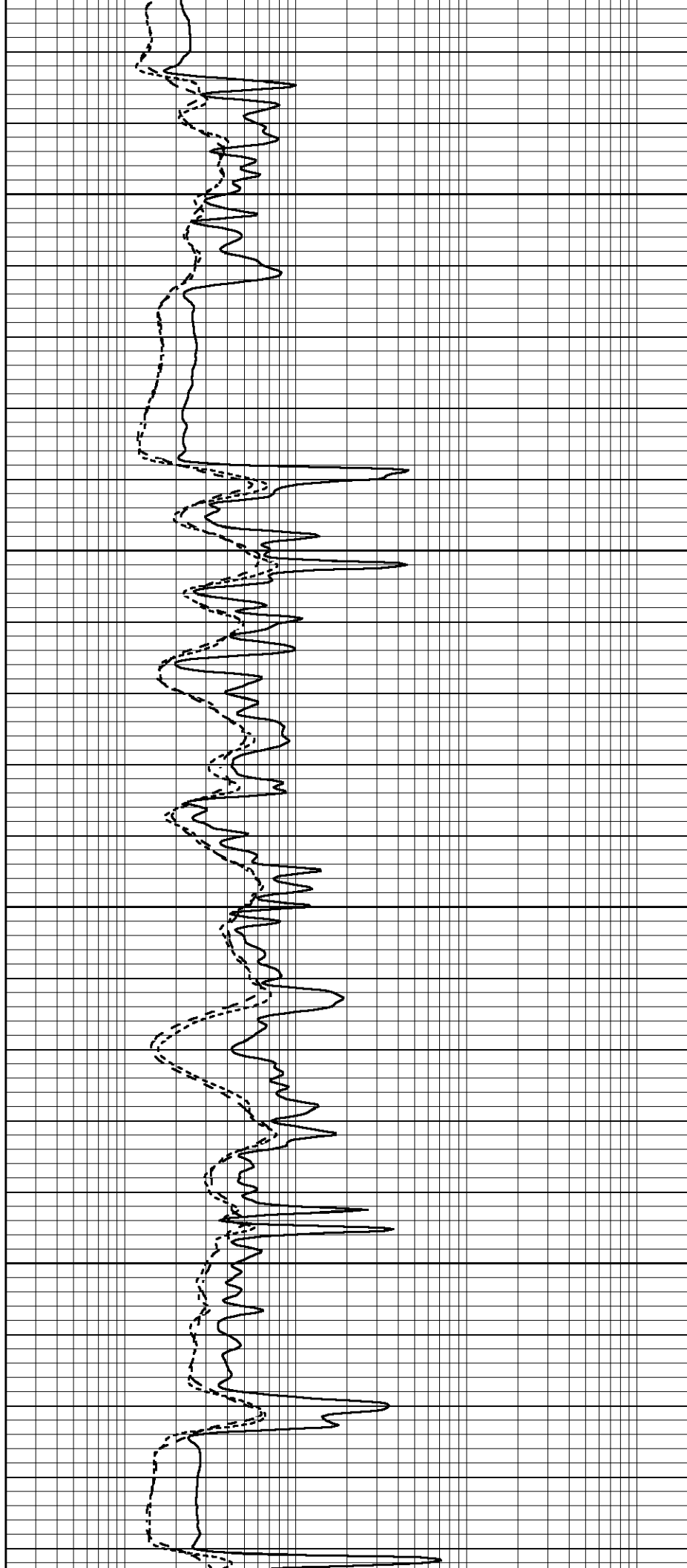


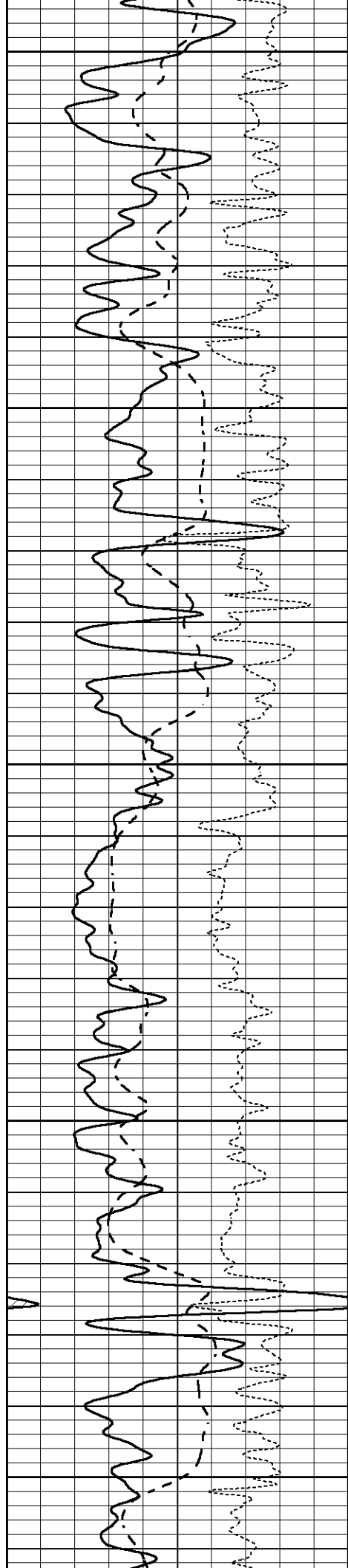
3100

3150

3200

3250





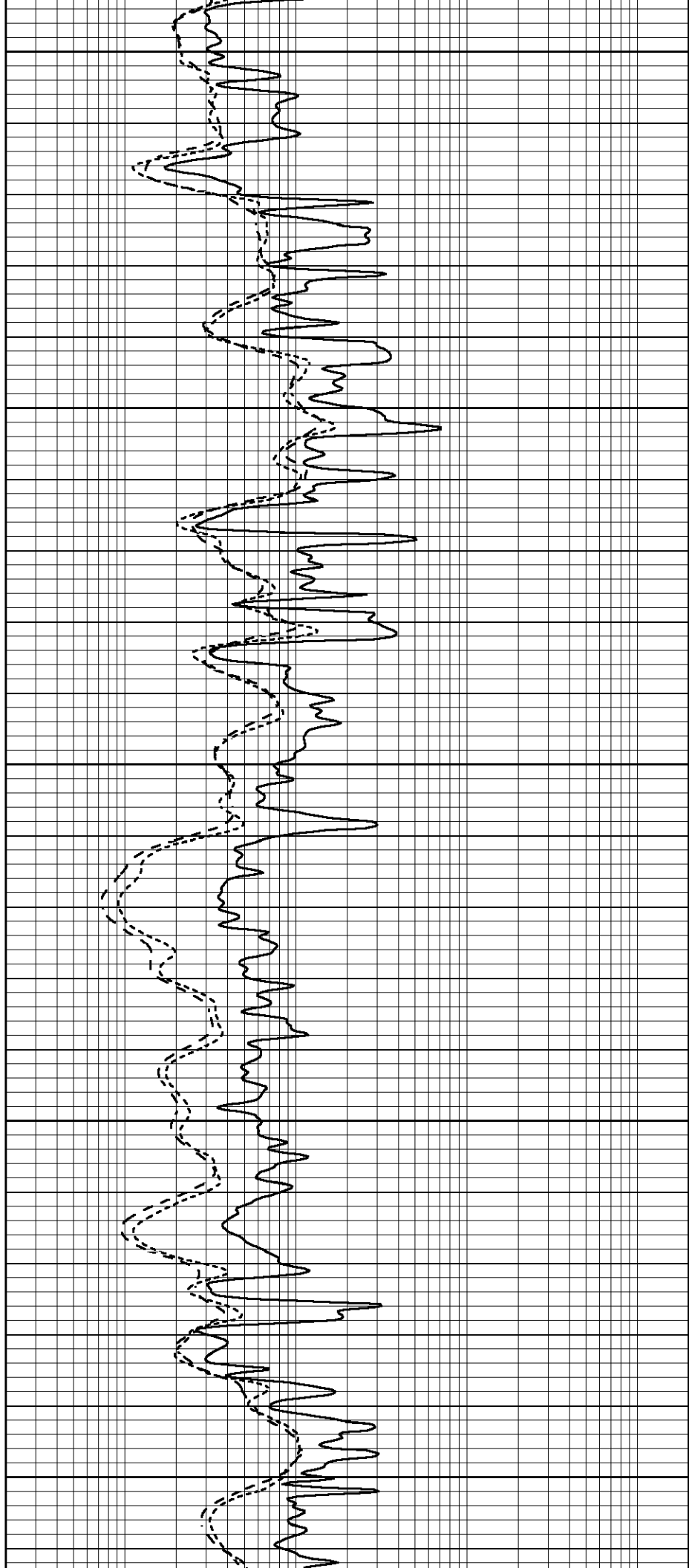
3300

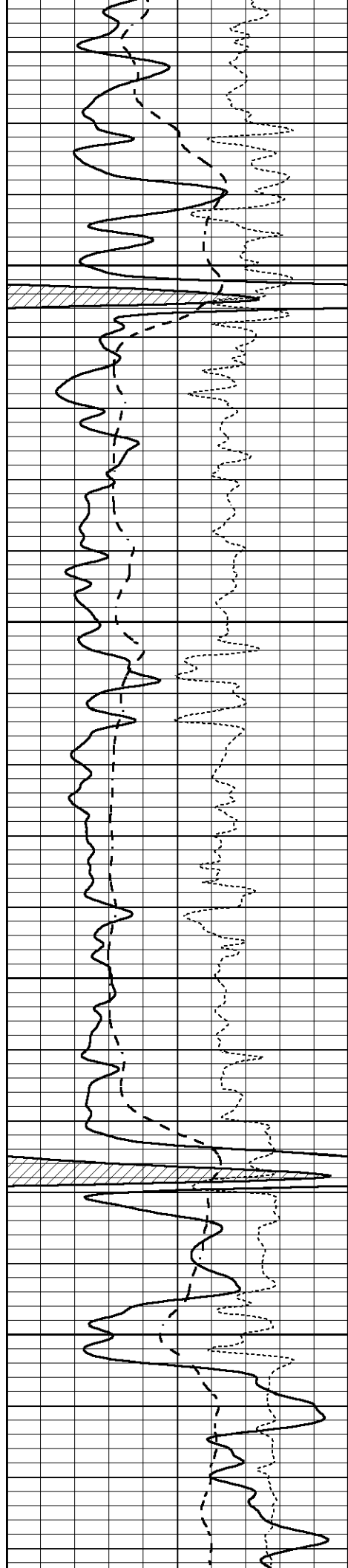
3350

3400

3450

3500



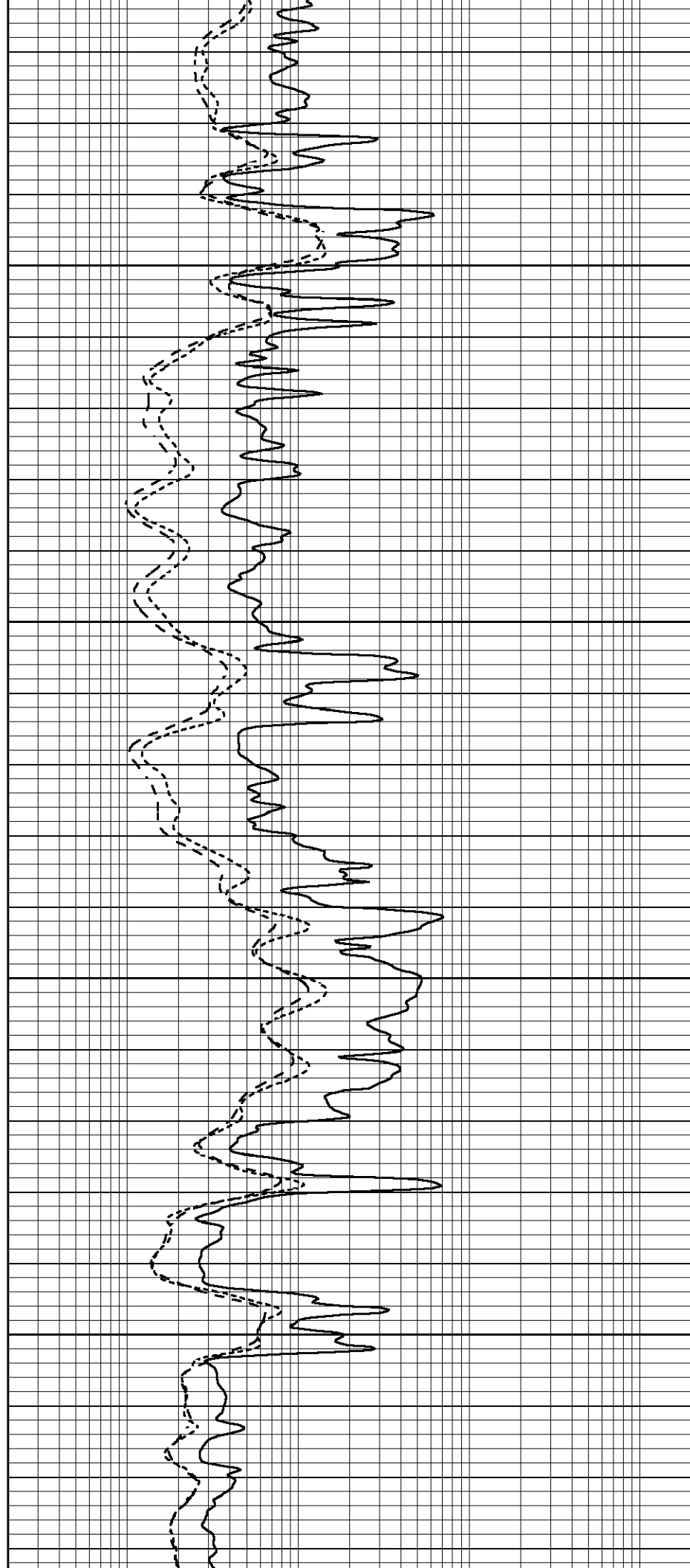


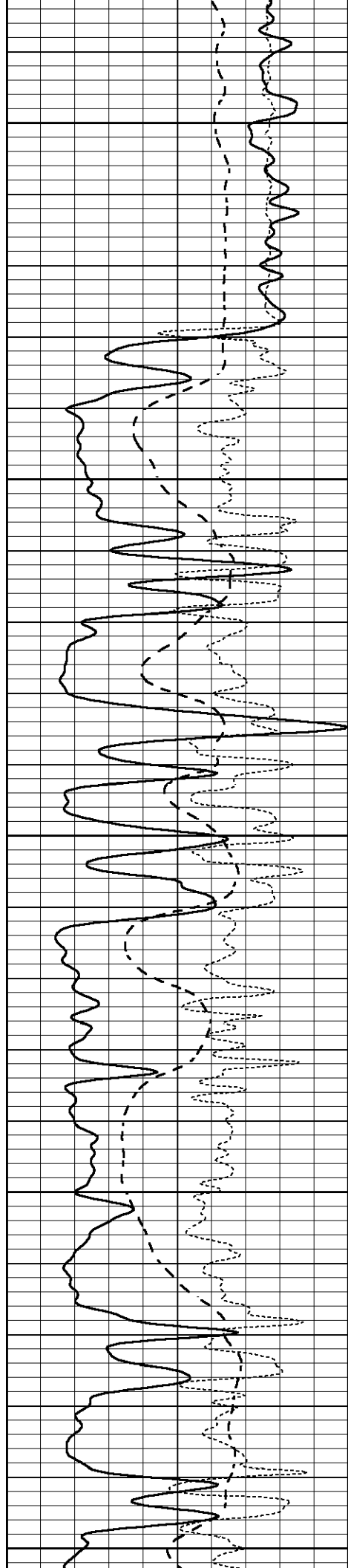
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3600

3650

3700





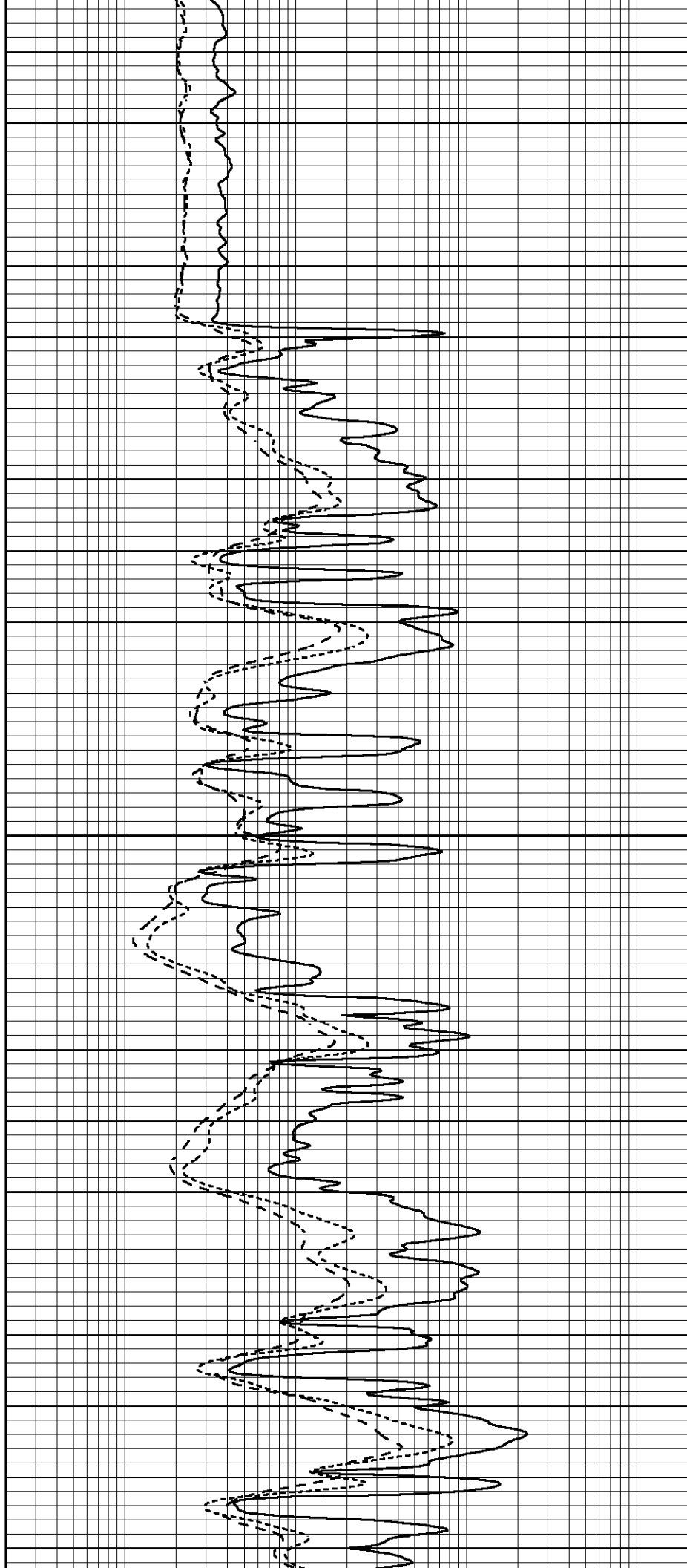
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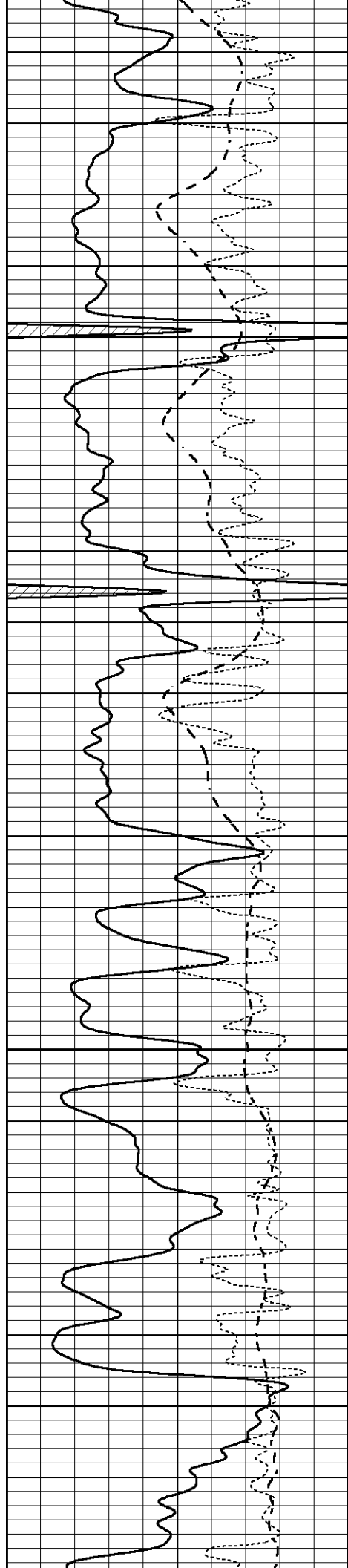
3800

3850

3900

3950



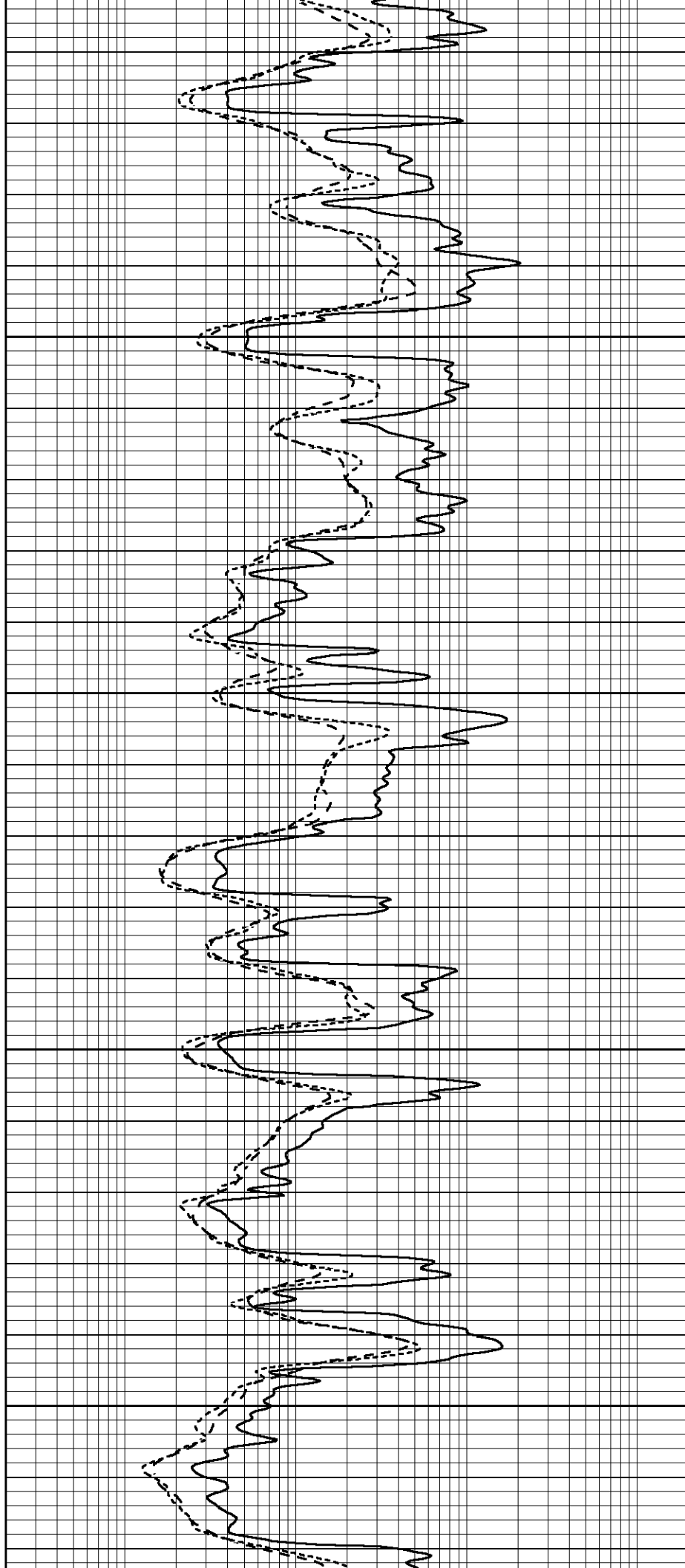


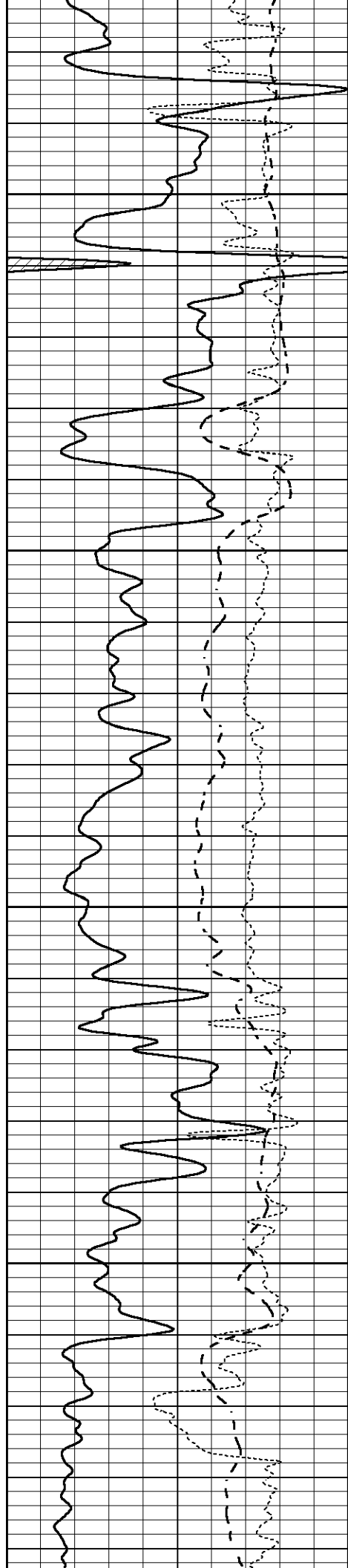
4000

4050

4100

4150



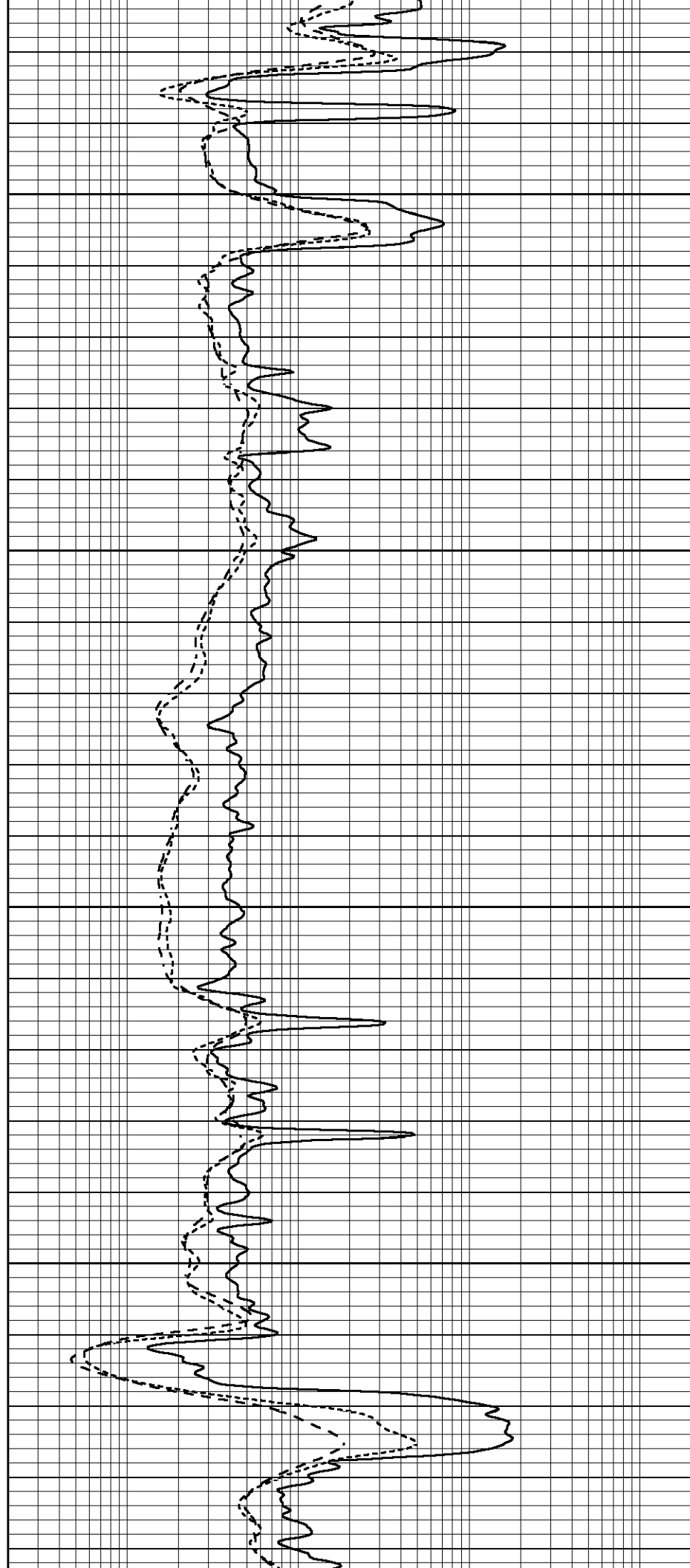


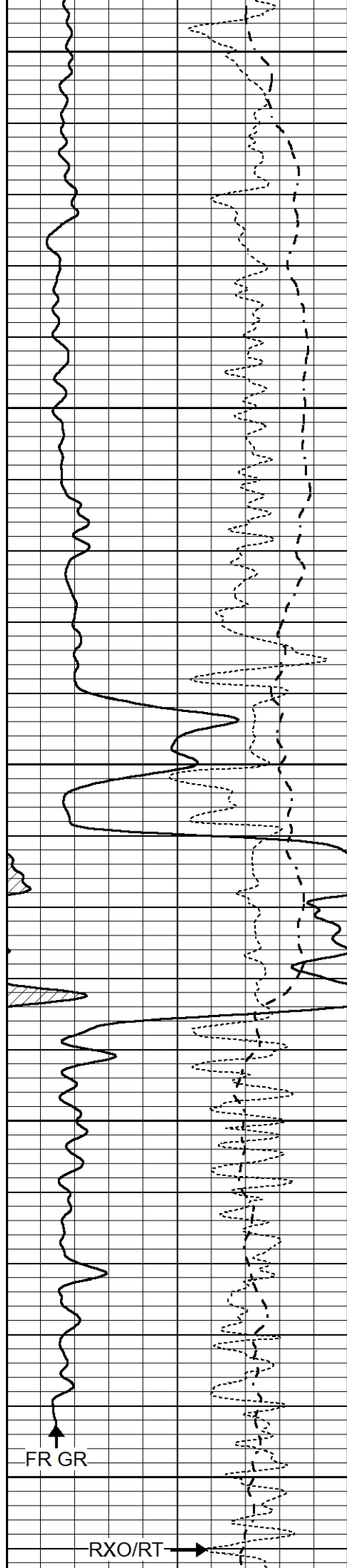
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4250

4300

4350





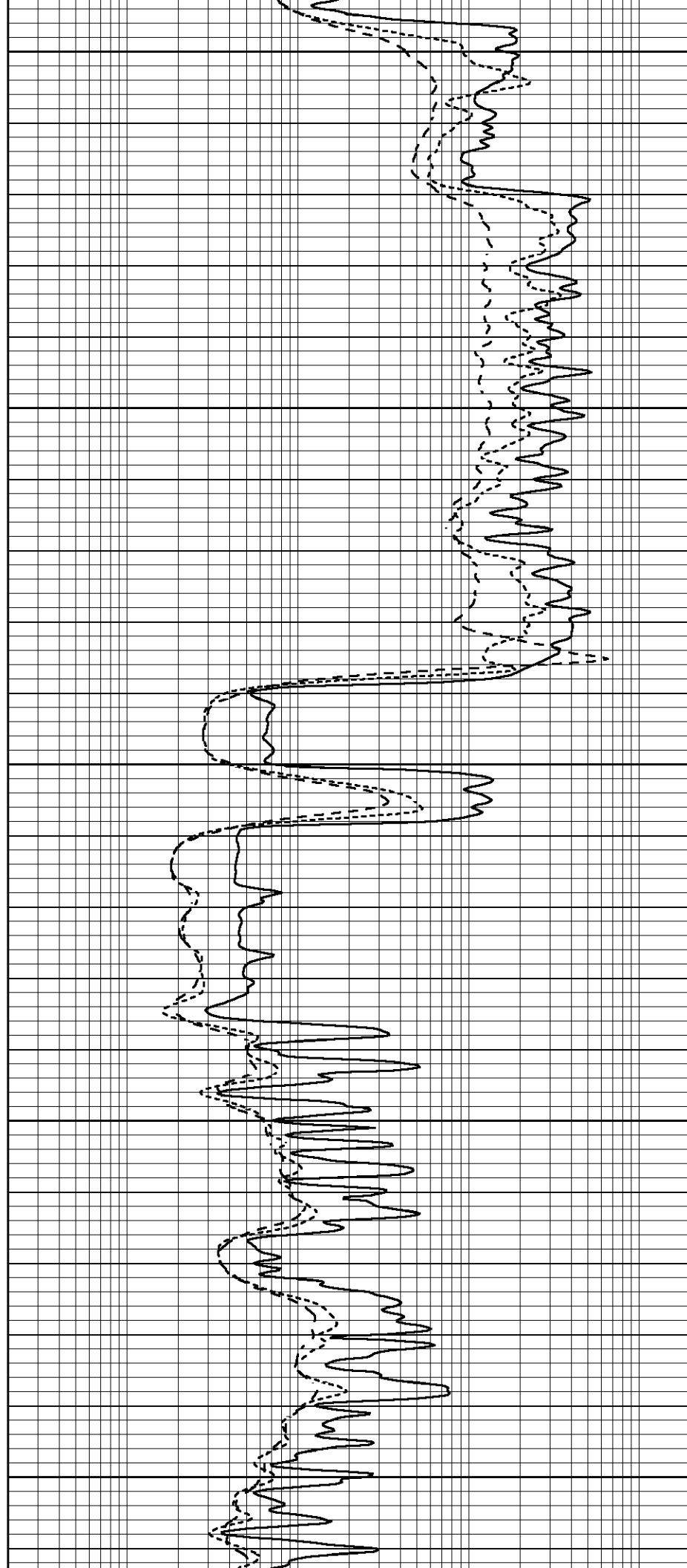
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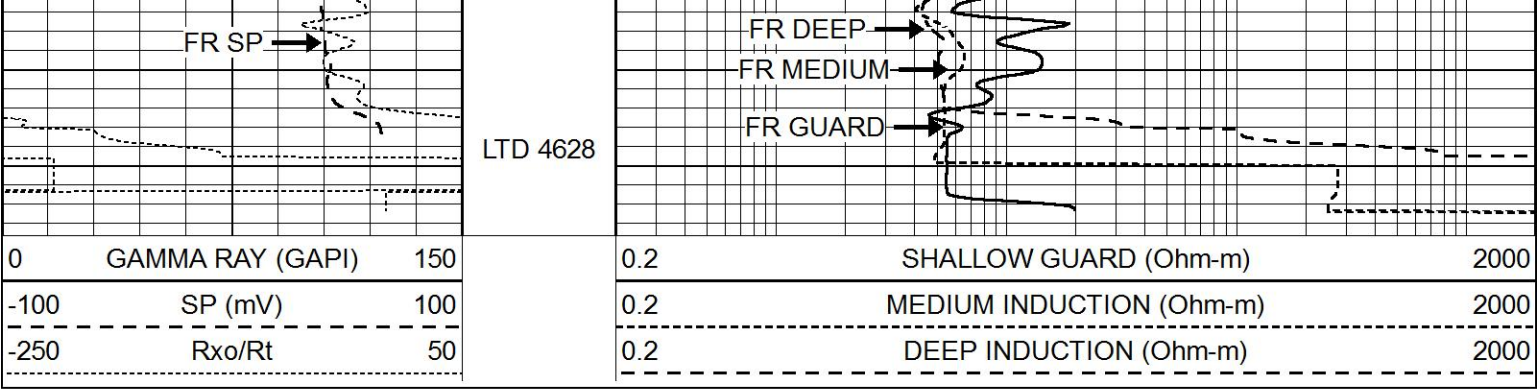
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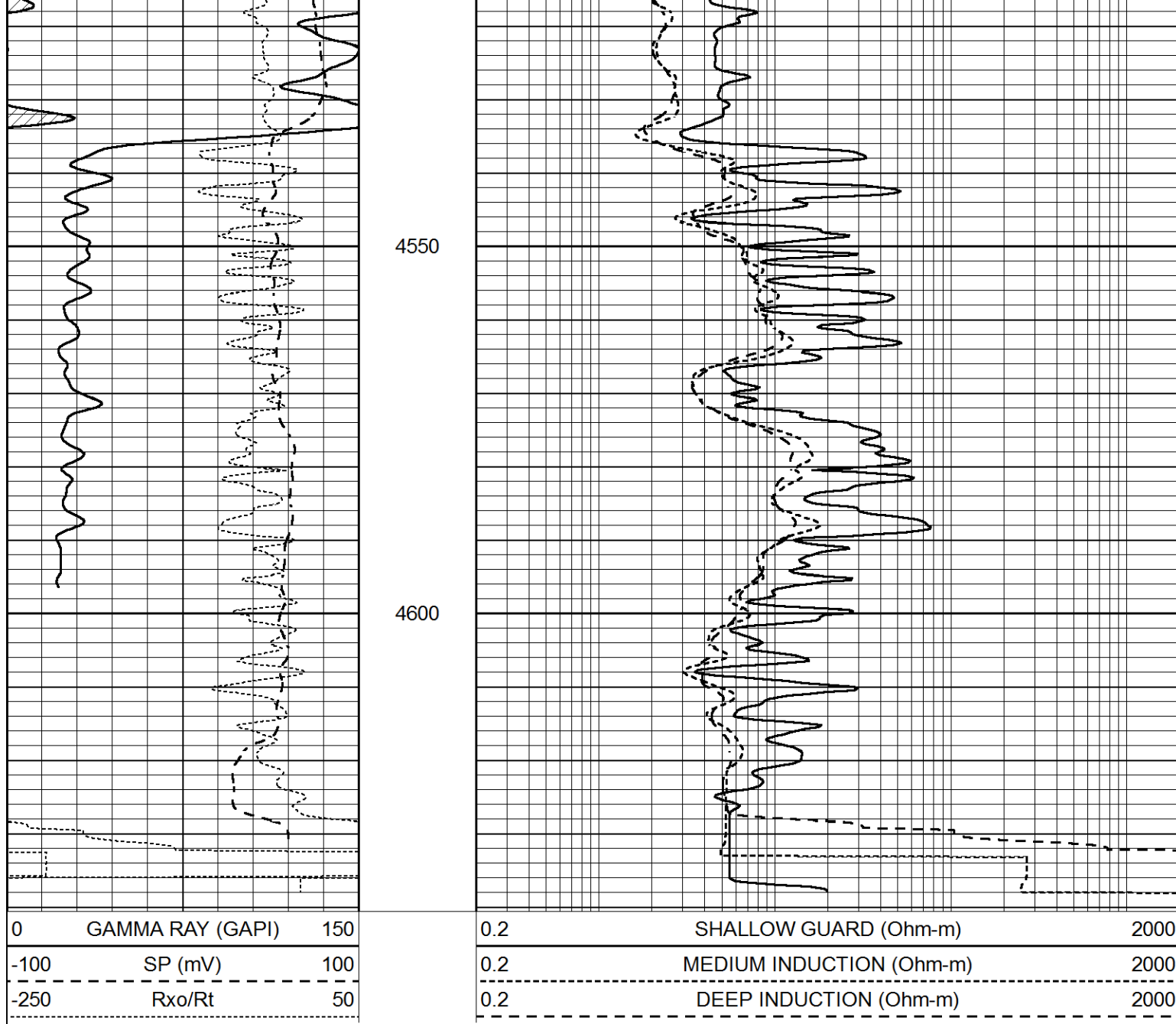
4500

4550

4600







Calibration Report								
Database File	8785pe.db							
Dataset Pathname	pass5M							
Dataset Creation	Thu Jun 13 12:00:30 2024							
Dual Induction Calibration Report								
Serial-Model:			FW1410-56-Probe					
Surface Cal Performed:			Tue Apr 30 11:10:17 2024					
Downhole Cal Performed:			Tue Jul 25 12:15:37 2017					
After Survey Verification Performed:			Tue Jul 25 12:15:38 2017					
Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	520.000	19.000
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	540.000	183.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034

Deep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532
Downhole Calibration								
Readings			References			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		
After Survey Verification								
Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Litho Density Calibration Report								
Serial: 002 Model: PRB								
Master Calibration								
Performed Tue Mar 05 14:38:26 2014								
	Background	Magnesium		Aluminum		Aluminum+Fe		
Window 1	725.2	6706.7		2064.1		1781.5		cps
Window 2	662.7	5683.9		1787.4		1577.3		cps
Window 3	531.1	2851.1		1038.7		963.2		cps
Window 4	159.2	158.7		158.9		156.4		cps
Long Space	0.0	5021.2		1124.6		914.6		cps
Short Space	1.4	1196.9		818.3		680.9		cps
Rho		1.7100		2.5900		0.0000		g/cc
Pe		2.0000		2.7500		5.7900		
Rib Angle	: 45.7	Rib Slope	: 1.026	Density/Spine Ratio			: 0.570	
Spine Angle	: 75.7	Spine Slope	: 3.935	Spine Intercept			: -19.4	
Before Survey Verification								
Performed Wed Dec 31 18:00:00 1969								
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps
Measured Rho		0.0000		0.0000		0.0000		g/cc
Measured Correction		0.0000		0.0000		0.0000		g/cc
Measured Pe				0.0000		0.0000		
After Survey Verification								
Performed Wed Dec 31 18:00:00 1969								
Window 1	0.0	0.0		0.0		0.0		cps
Window 2	0.0	0.0		0.0		0.0		cps
Window 3	0.0	0.0		0.0		0.0		cps
Window 4	0.0	0.0		0.0		0.0		cps
Long Space	0.0	0.0		0.0		0.0		cps
Short Space	0.0	0.0		0.0		0.0		cps

Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	
Compensated Neutron Calibration Report					
		Serial Number:	080621PMC		
		Tool Model:	NABORS		
PRE-SURVEY VERIFICATION					
Detector	Readings	Measured	Target		
Short Space	cps				
Long Space	cps	pu	pu		
POST-SURVEY VERIFICATION					
Detector	Readings	Measured	Target		
Short Space	cps				
Long Space	cps	pu	pu		
Gamma Ray Calibration Report					
Serial Number:	46001				
Tool Model:	Probe1				
Performed:	Thu Apr 20 09:55:57 2023				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.4300	GAPI/cps			