



DUAL INDUCTION LOG

Company	REILLY OIL COMPANY, INC.	Company	REILLY OIL COMPANY, INC.
Well	KATHLEEN #1-1	Well	KATHLEEN #1-1
Field	CEDAR VIEW	Field	CEDAR VIEW
County	TREGO	County	TREGO
State	KANSAS	State	KANSAS
Location:	API # : 15-195-23120-0000 330' FSL & 510' FEL	Other Services CDL/CNL MEL	
Permanent Datum	GROUND LEVEL	Elevation	2253
Log Measured From	KELLY BUSHING	K.B. 2260 D.F. 2258 G.L. 2253	
Drilling Measured From	KELLY BUSHING		
SEC 1 TWP 14S RGE 22W			
Date	5/2/21		
Run Number	ONE		
Depth Driller	4149		
Depth Logger	4154		
Bottom Logged Interval	4152		
Top Log Interval	00		
Casing Driller	8 5/8"@220'		
Casing Logger	220		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,200 PPM	
Density / Viscosity	9.4/60		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.490@85F		
Rmf @ Meas. Temp	.368@85F		
Rmc @ Meas. Temp	.588@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.356@117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:15 P.M.		
Maximum Recorded Temperature	117F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	RICHARD BELL		

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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.

15-195-23120-0000

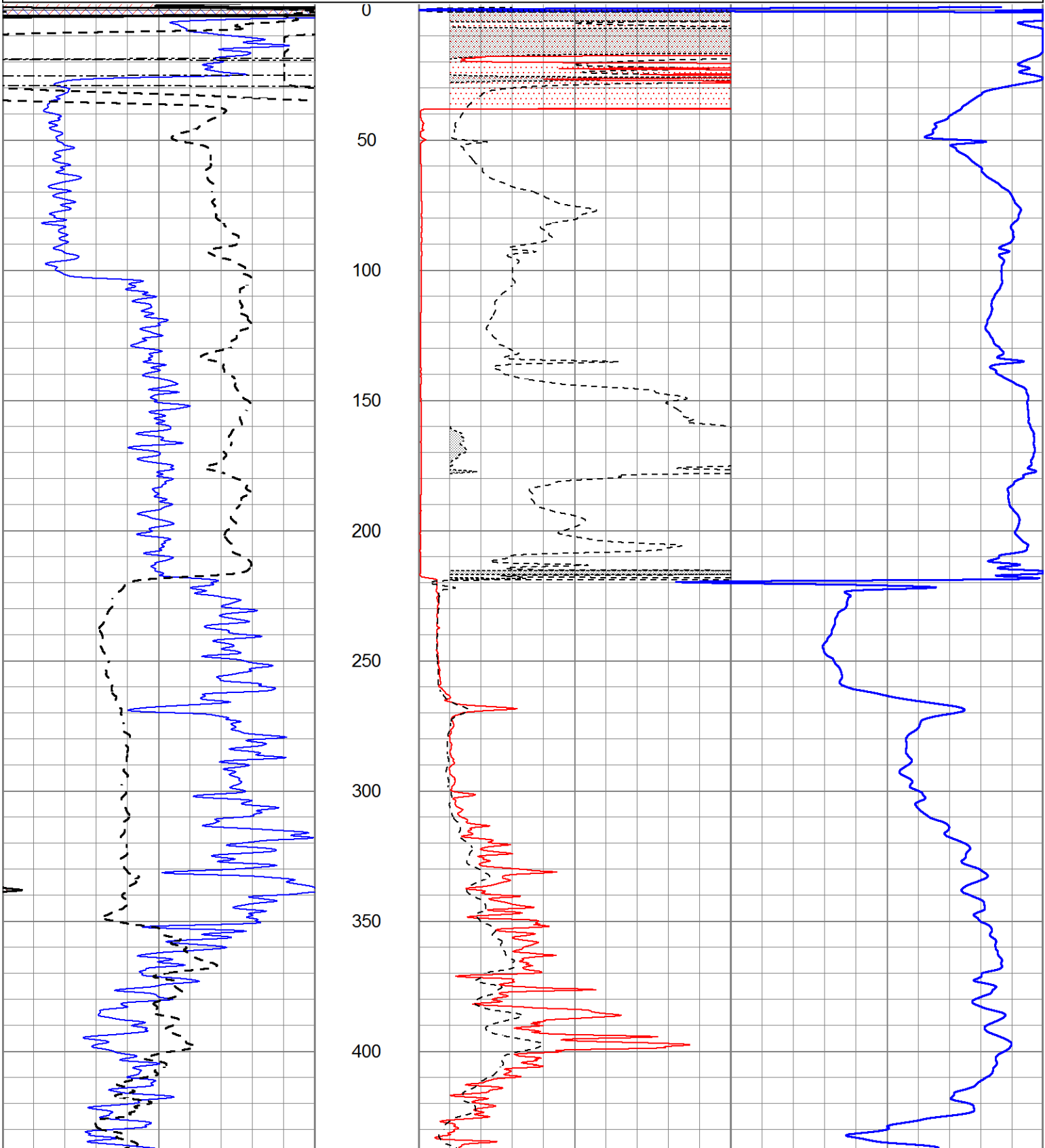
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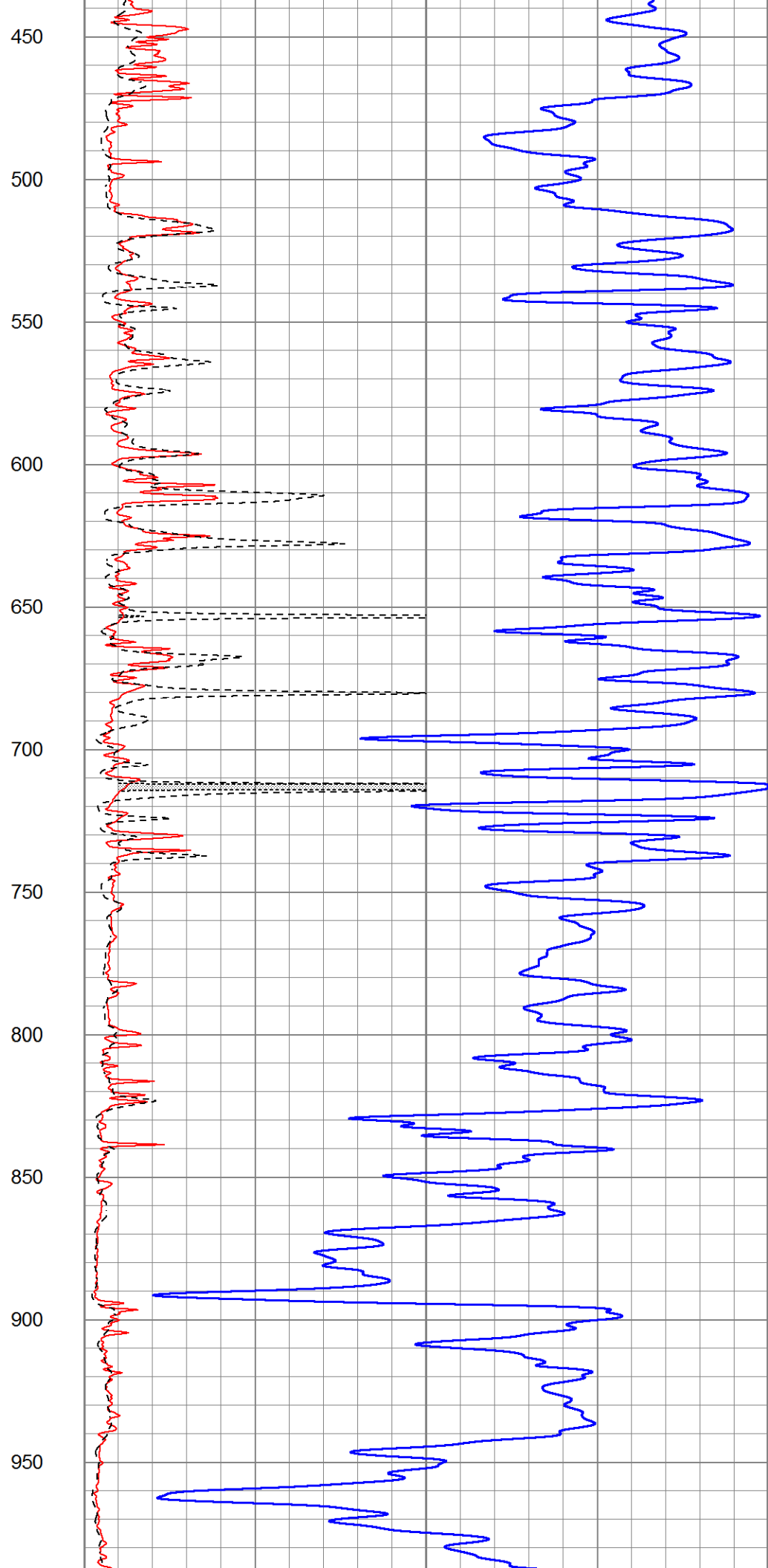
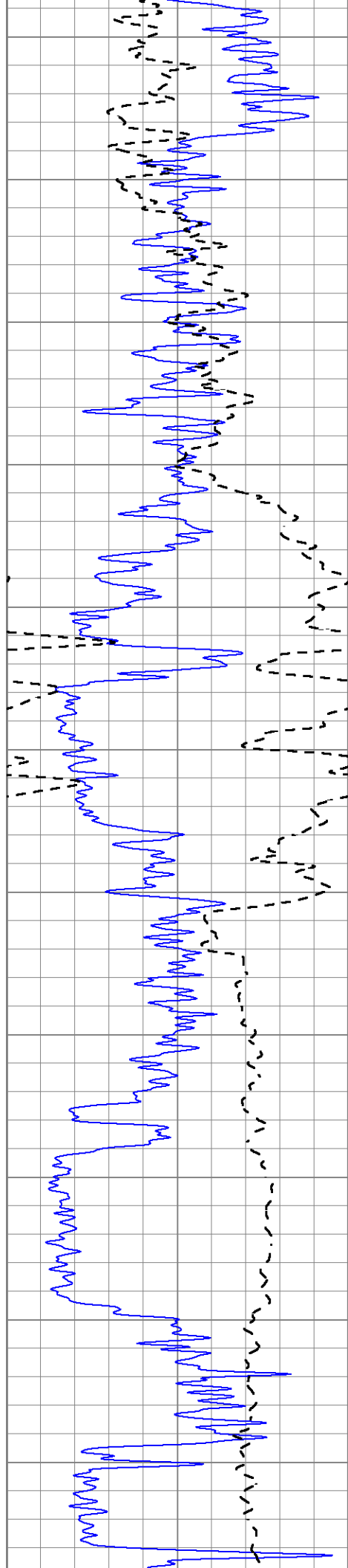
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
OGALLAH & I-70, 10S. ON HWY 147 TO "RD. T", 3/4E., N. INTO

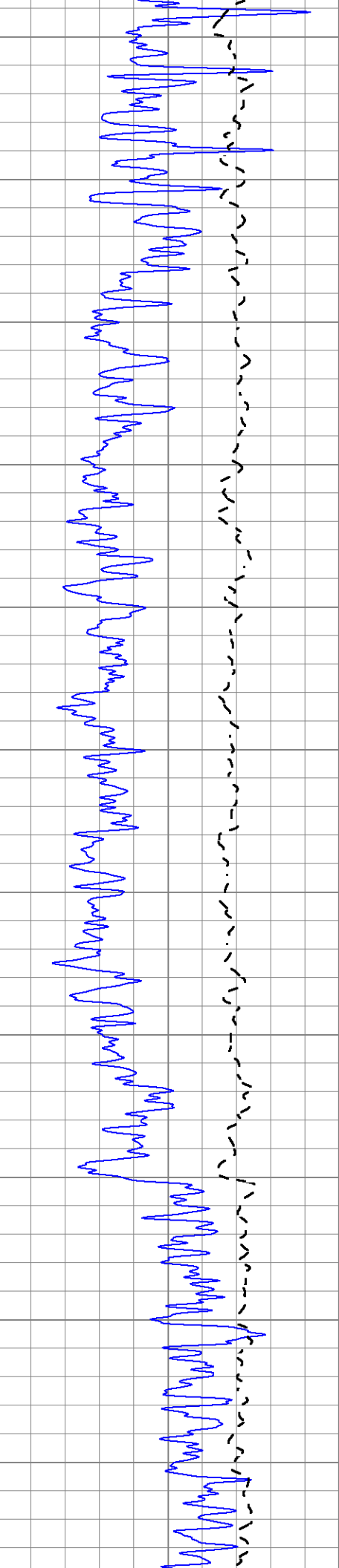


MAIN SECTION

0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500







1000

1050

1100

1150

1200

1250

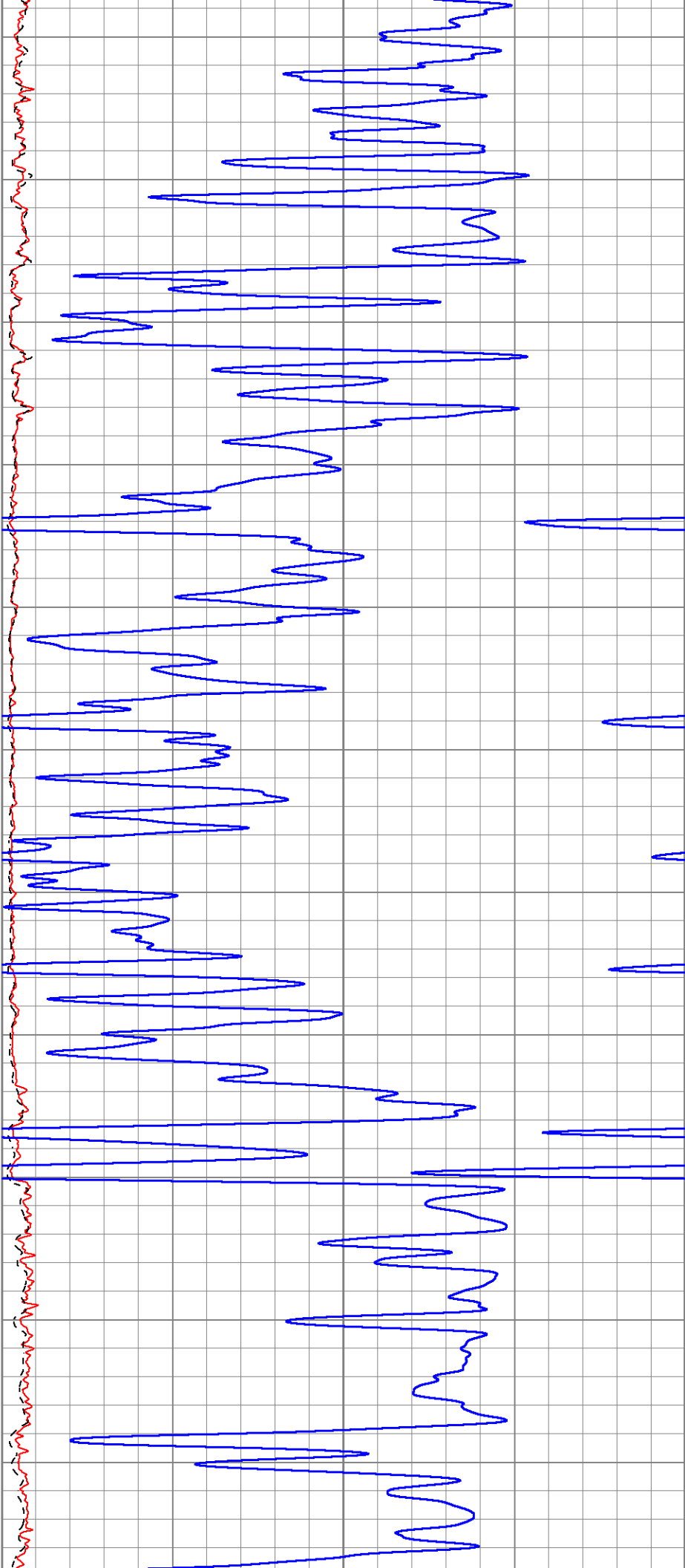
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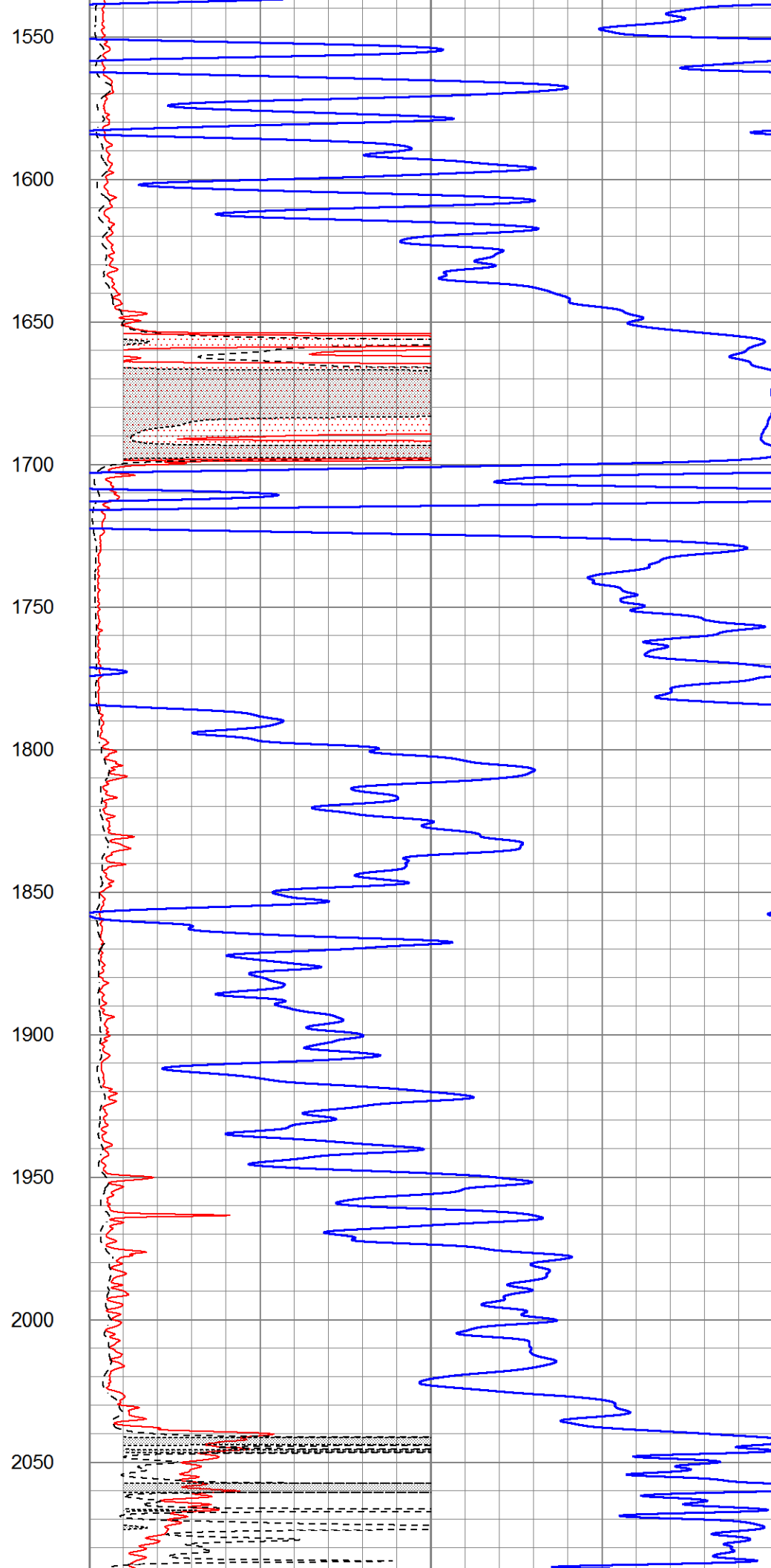
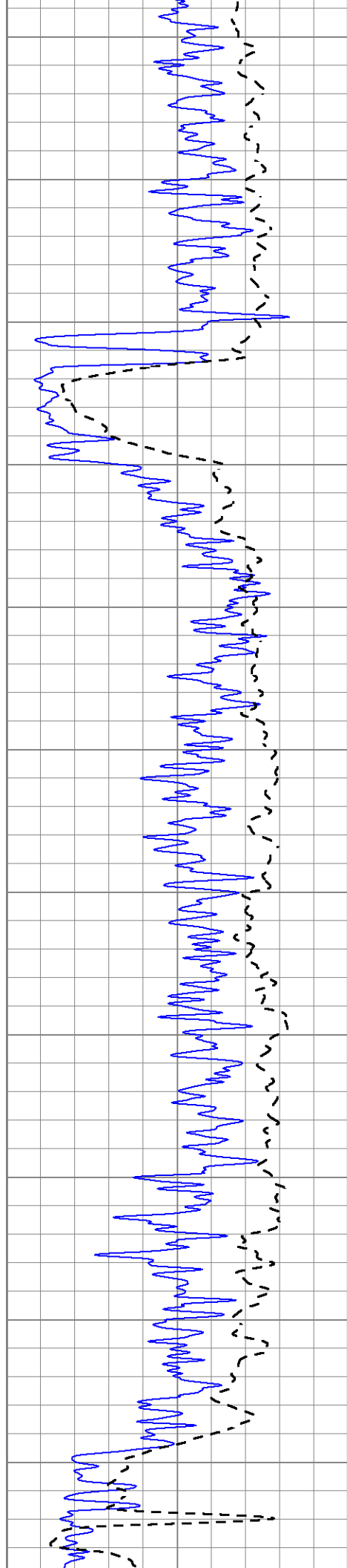
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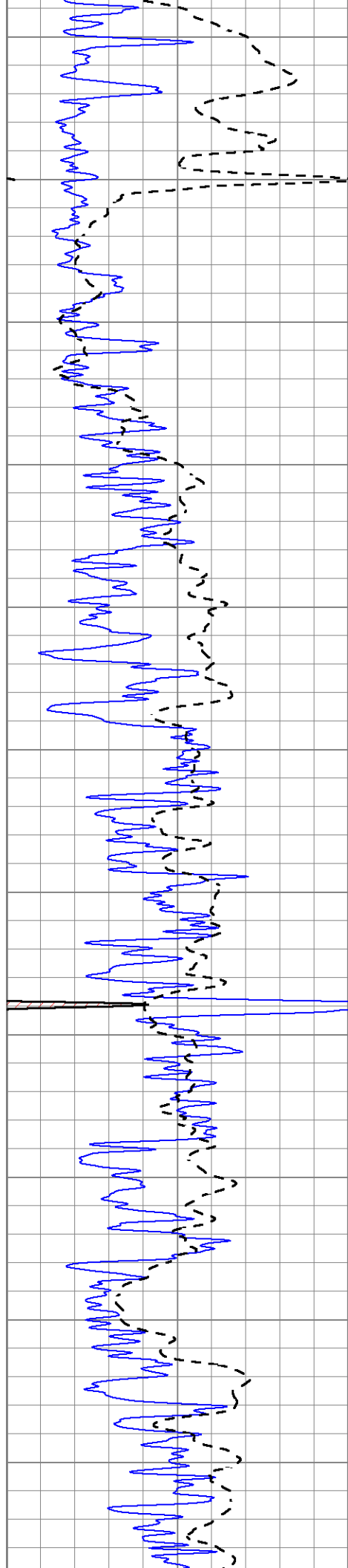
1400

1450

1500







2100

2150

2200

2250

2300

2350

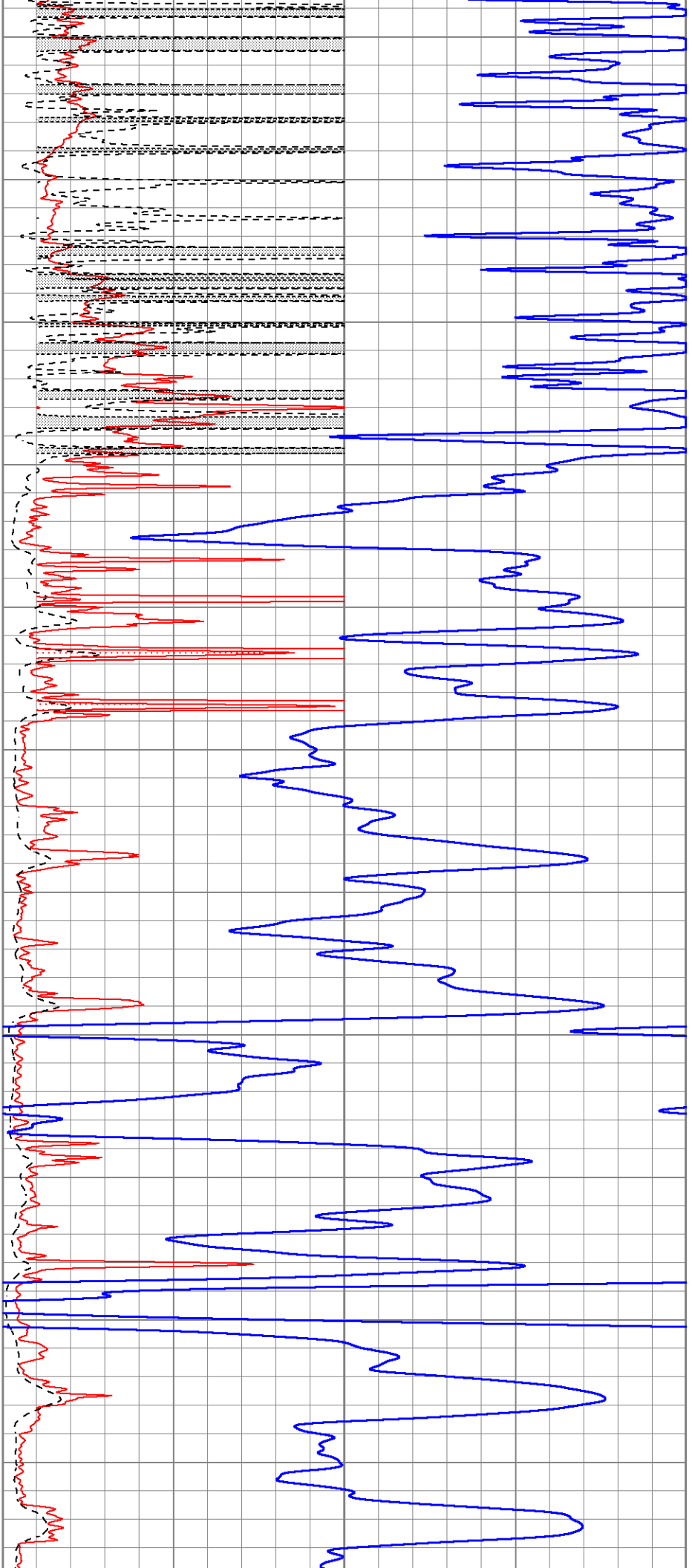
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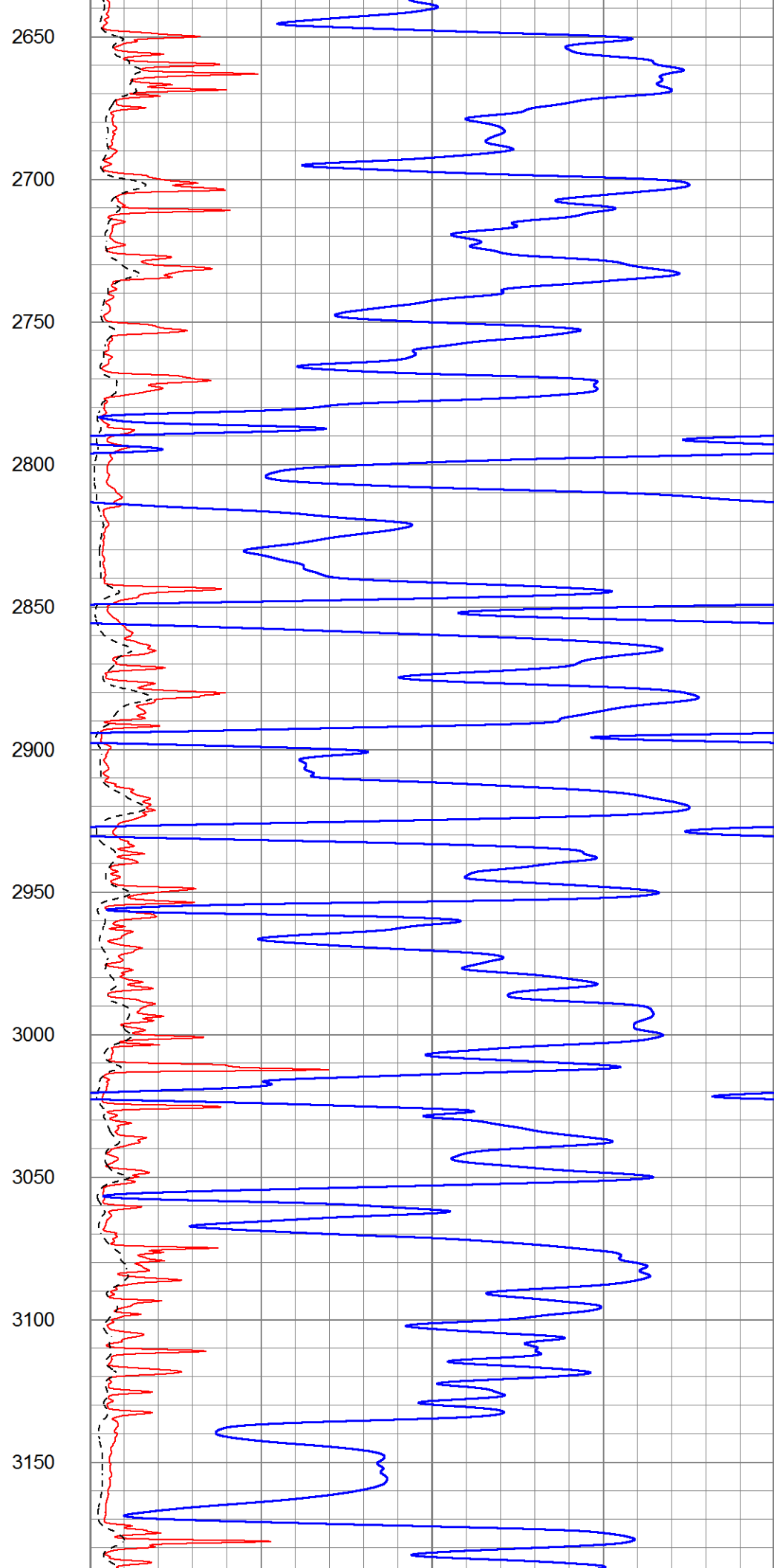
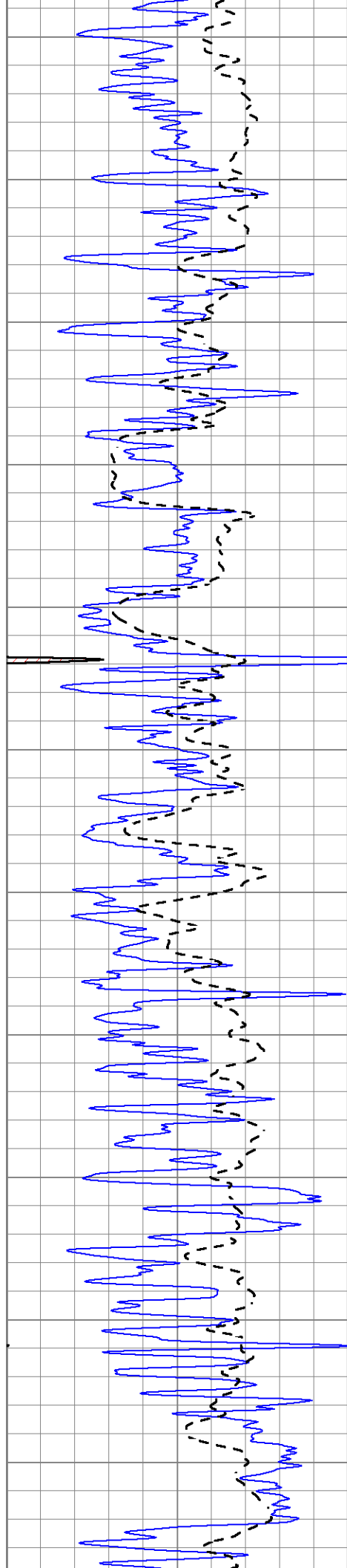
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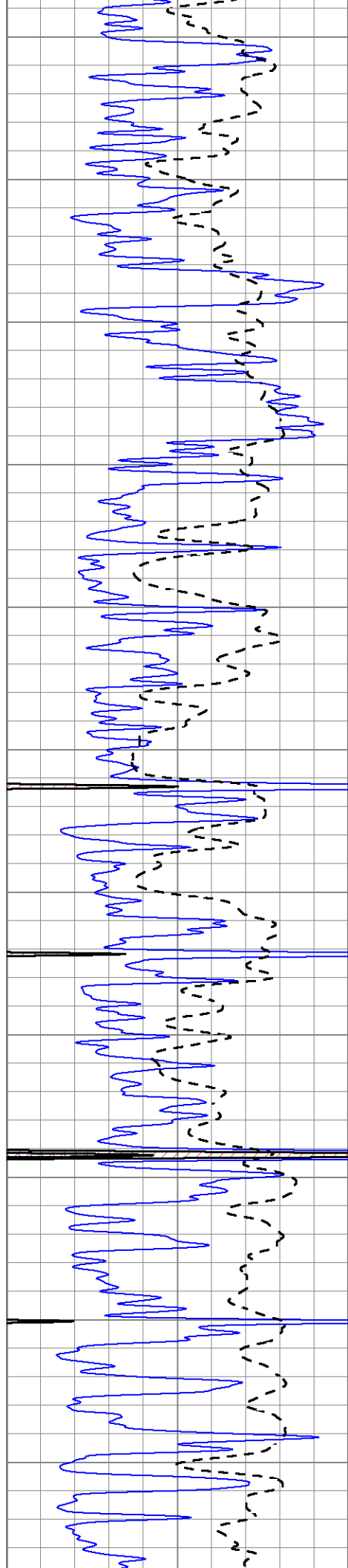
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2550

2600







3200

3250

3300

3350

3400

3450

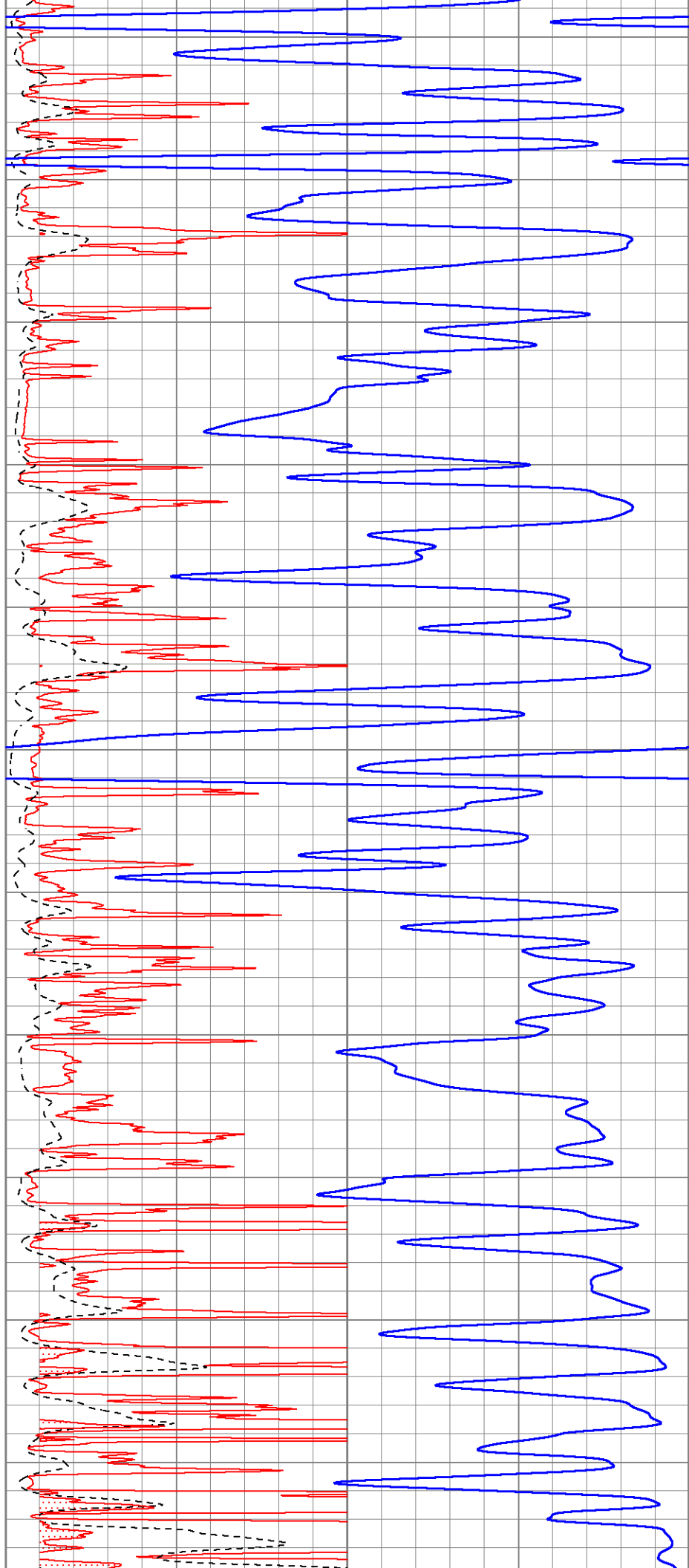
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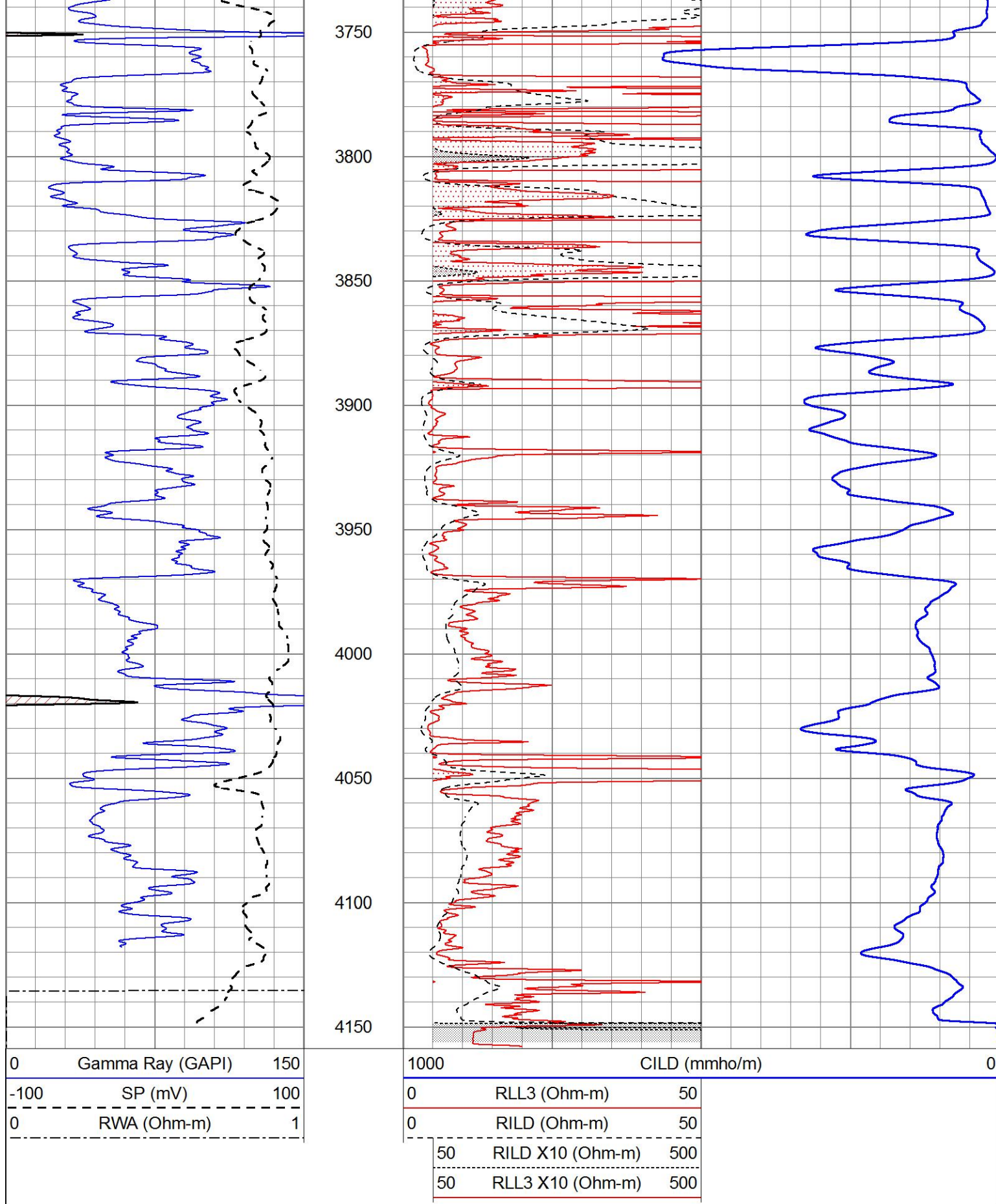
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3600

3650

3700



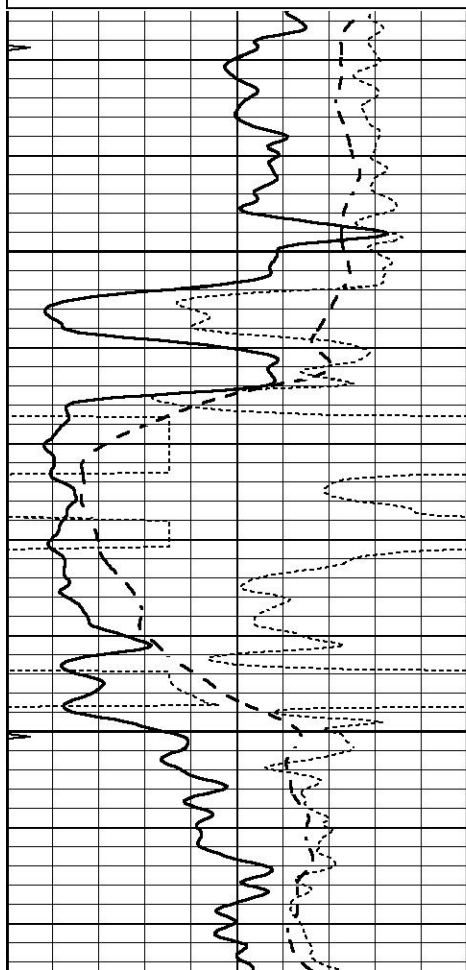


MAIN SECTION

Database File 5269ddn.db
 Dataset Pathname pass3.3A
 Presentation Format _dil
 Dataset Creation Mon May 03 00:53:21 2021
 Charted by Depth in Feet scaled 1:240

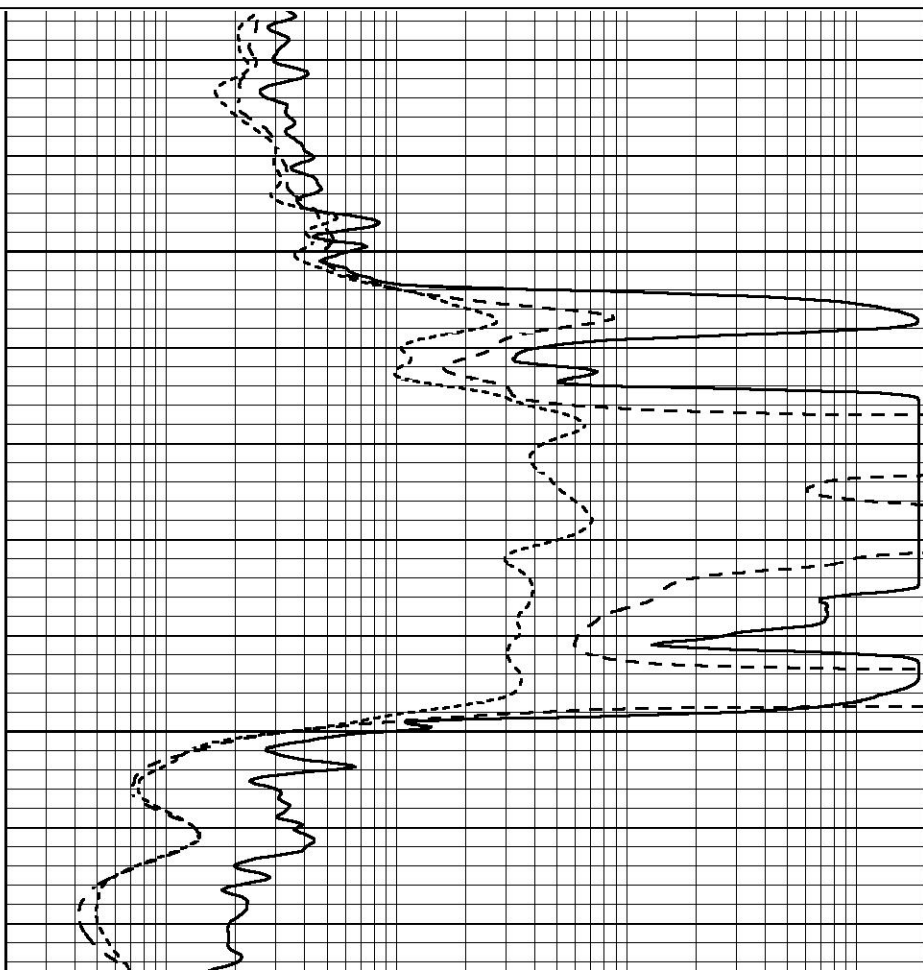
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



1650

1700



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

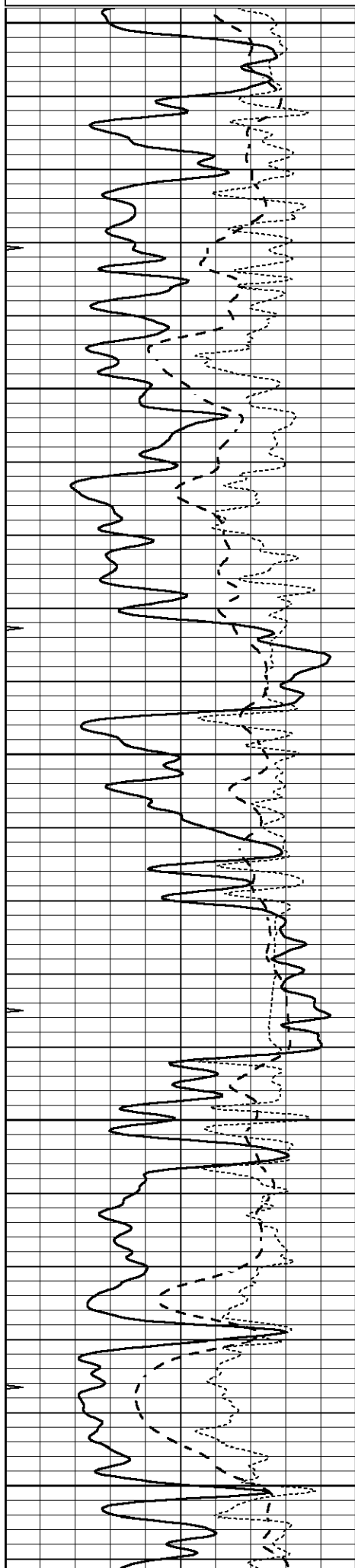


MAIN SECTION

Database File 5269ddn.db
 Dataset Pathname pass3.3M
 Presentation Format _dil
 Dataset Creation Mon May 03 00:58:12 2021
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



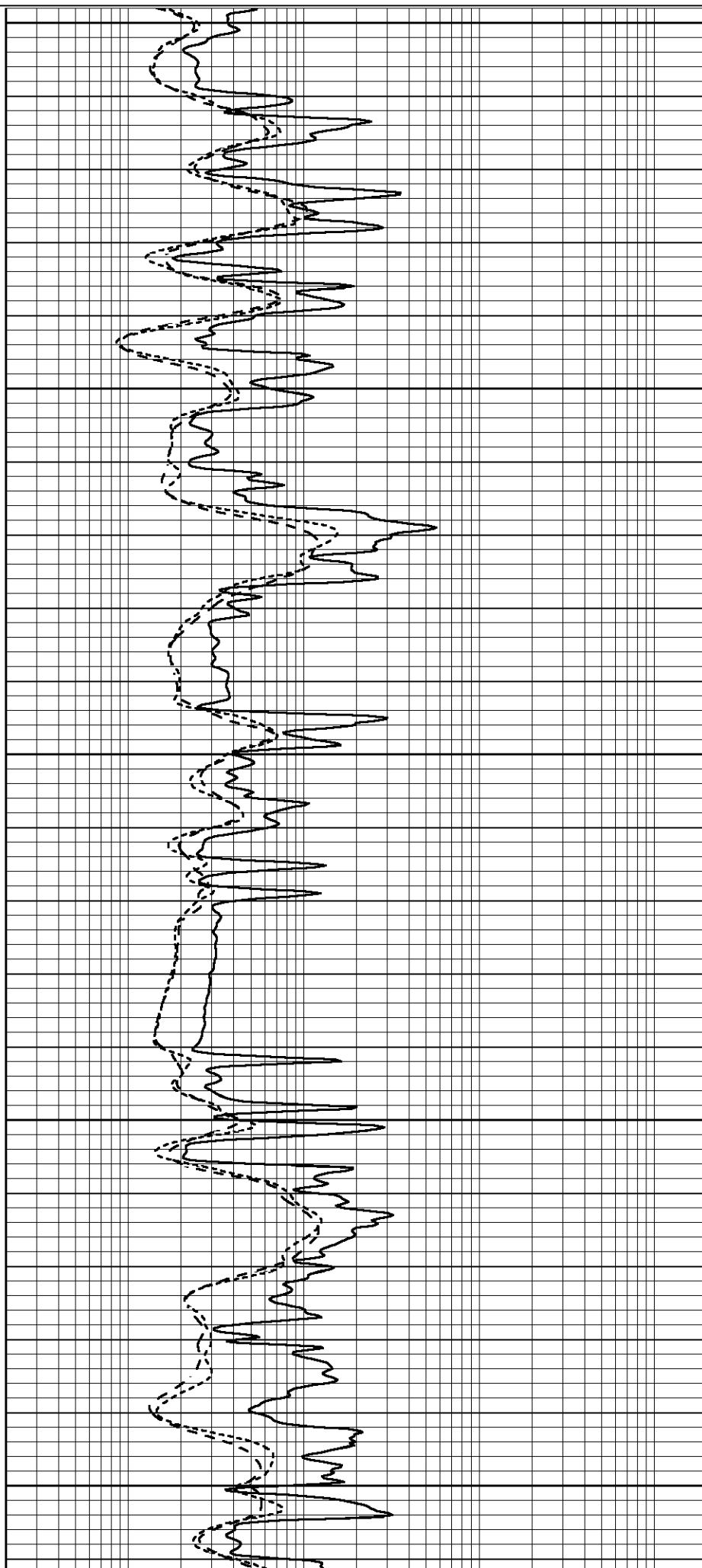
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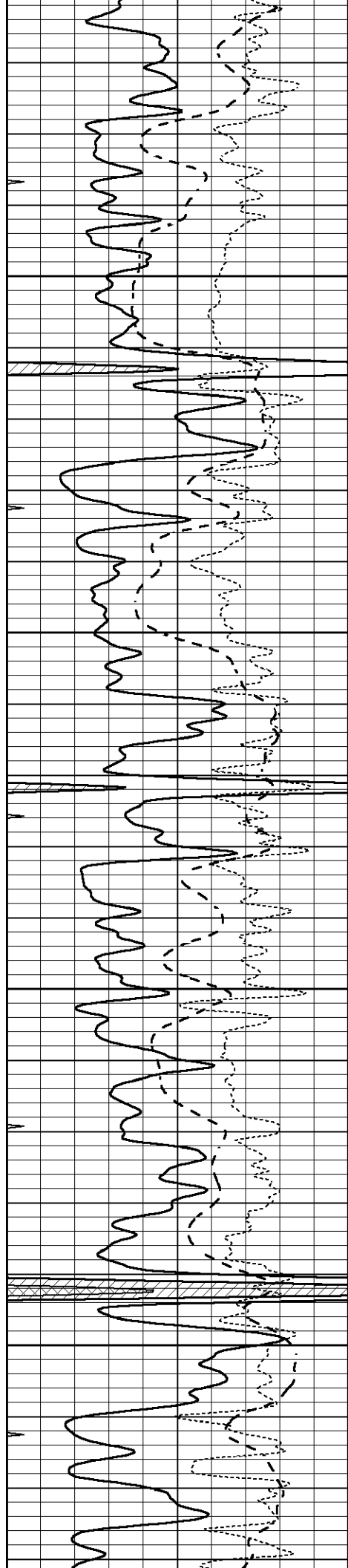
3250

3300

3350

3400



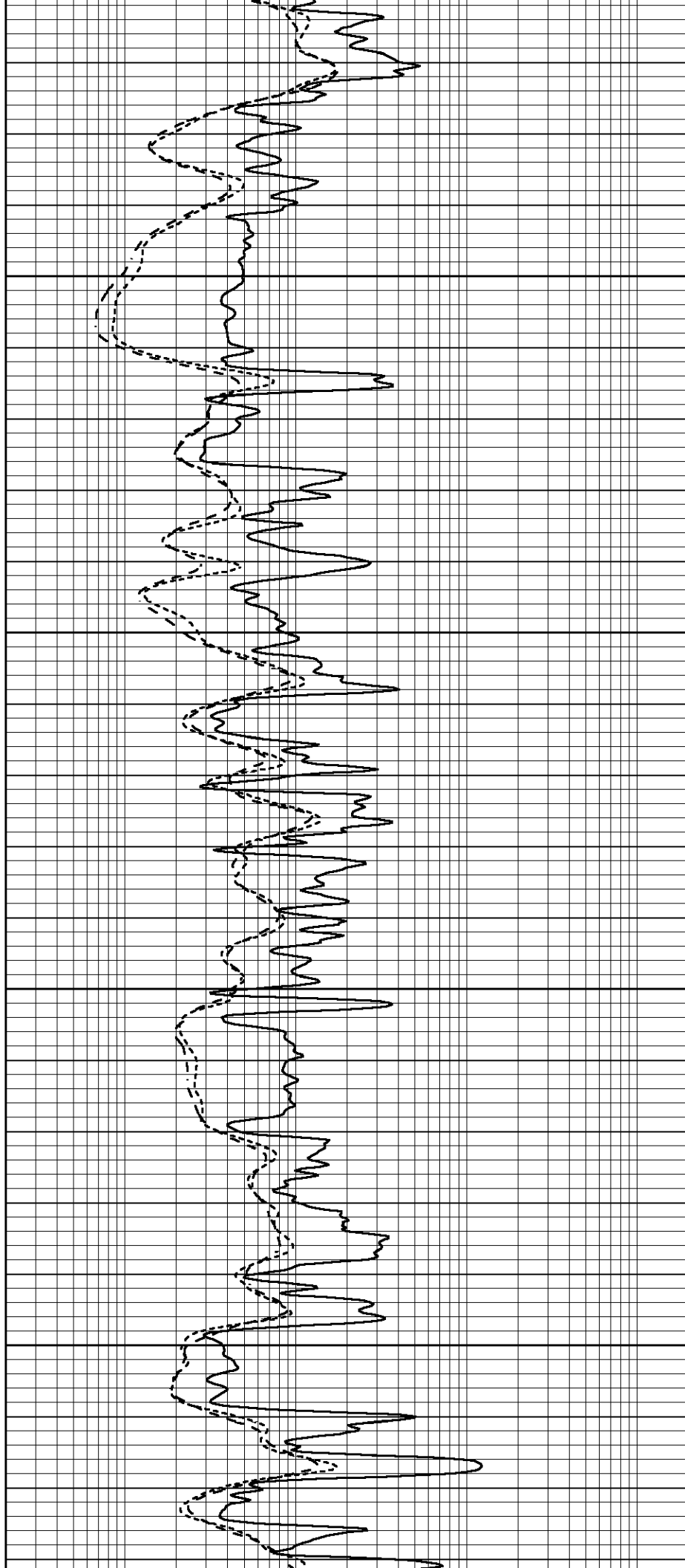


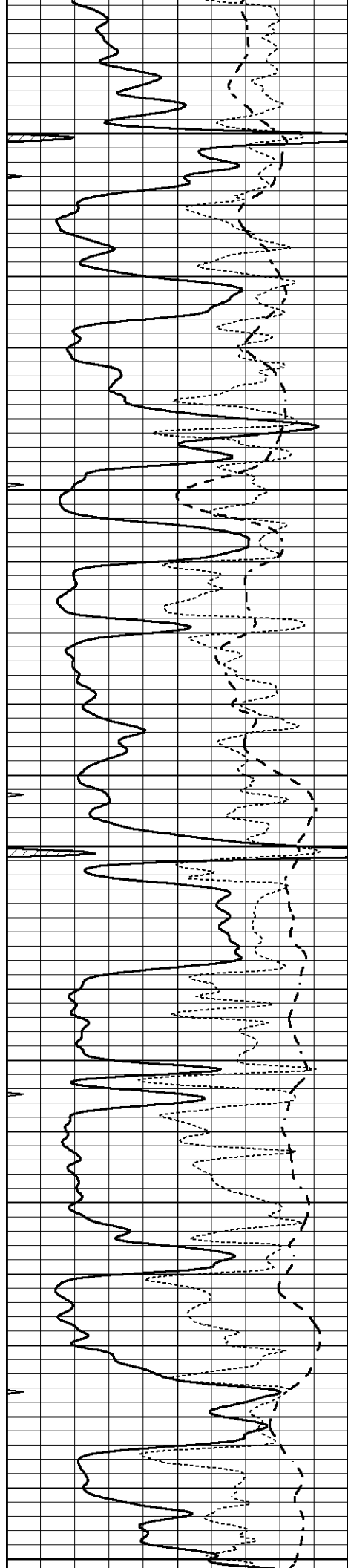
3450

3500

3550

3600





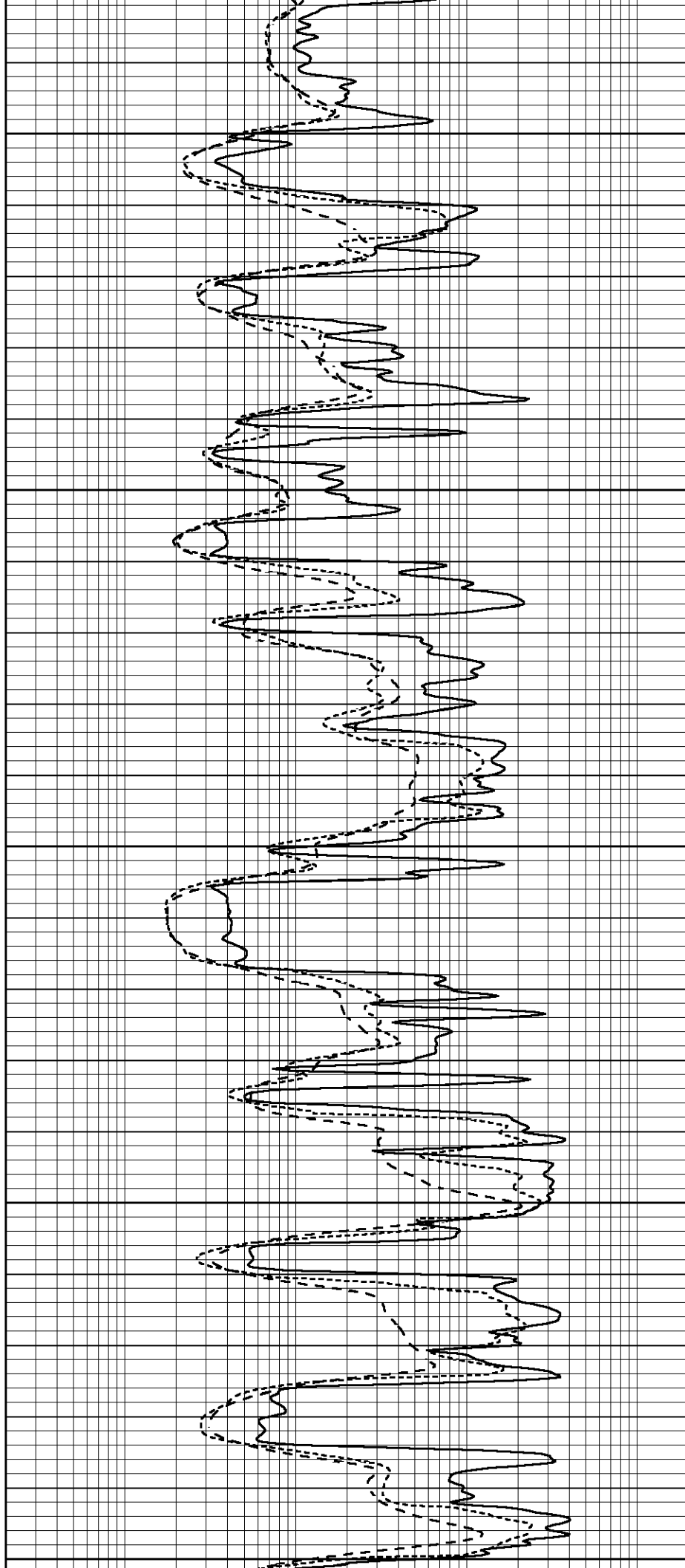
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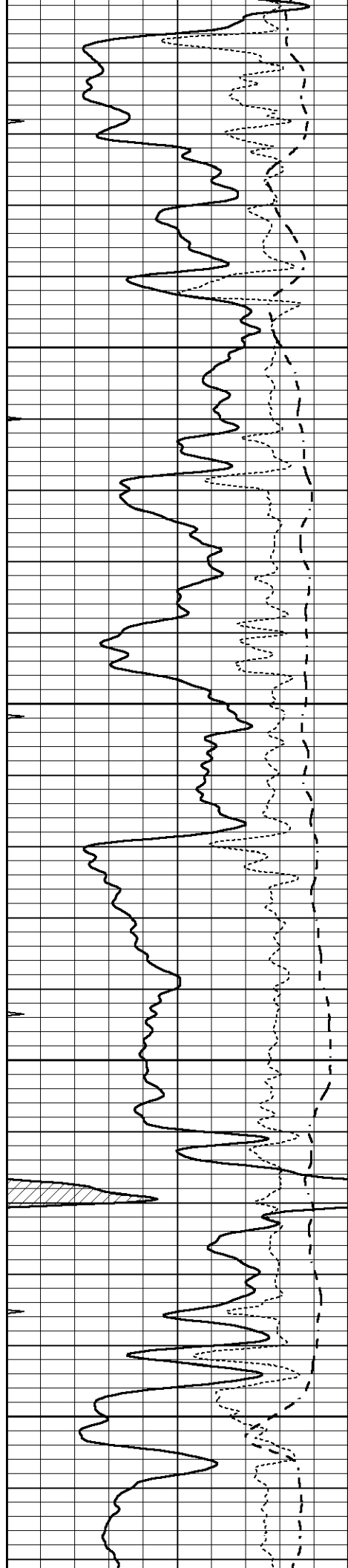
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3750

3800

3850



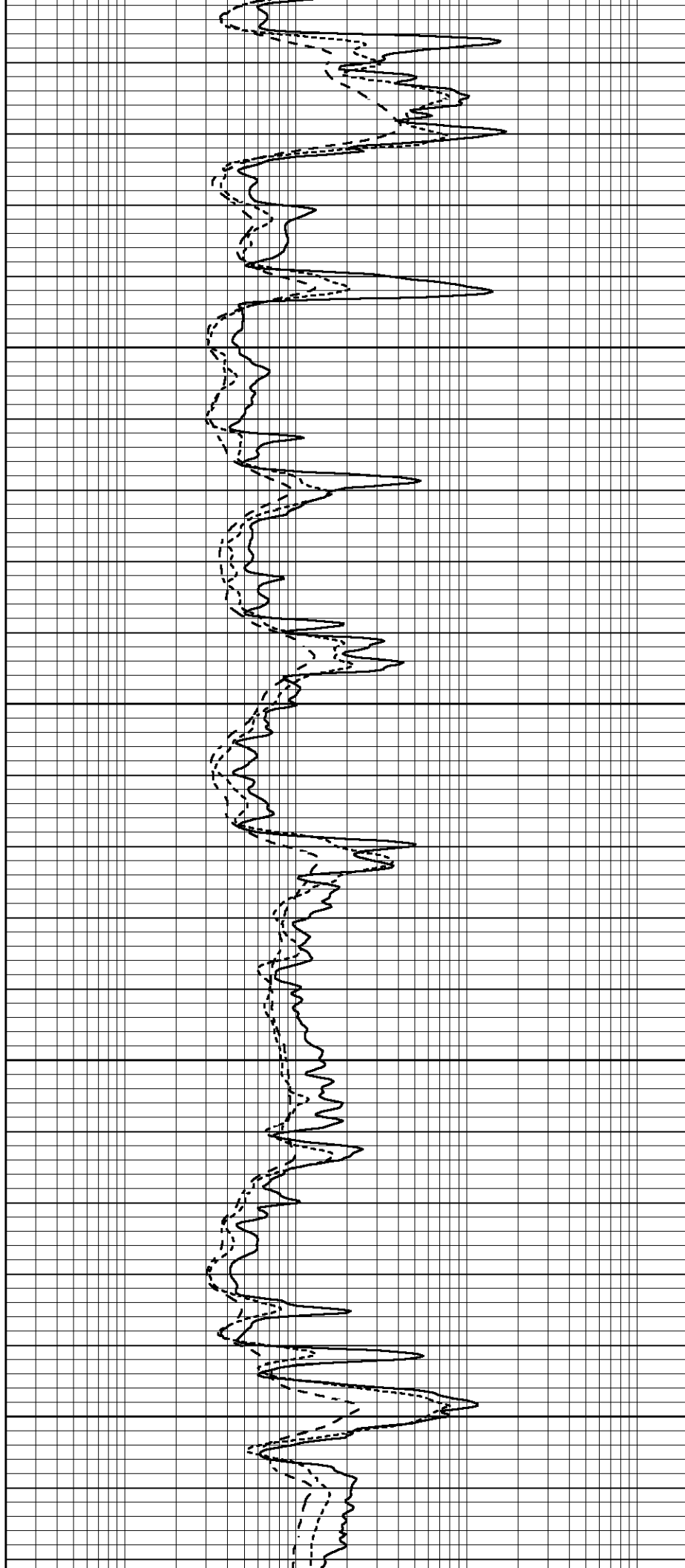


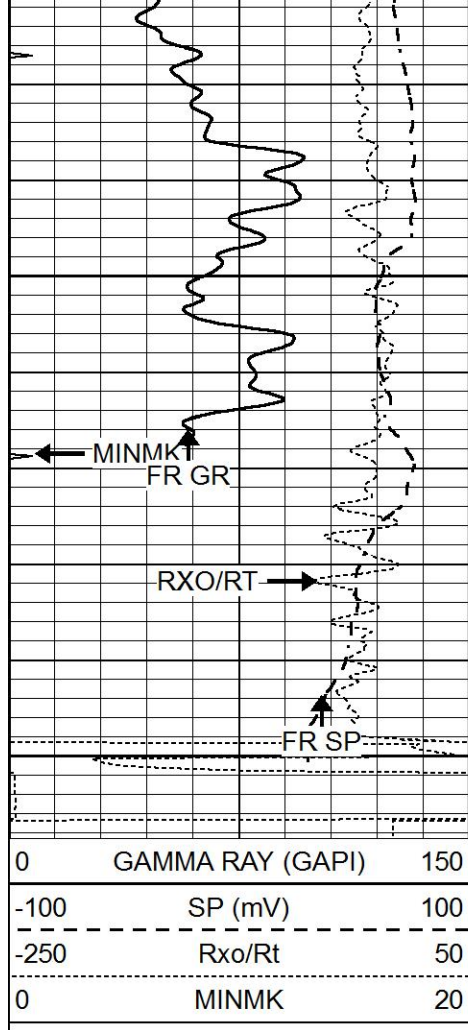
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3950

4000

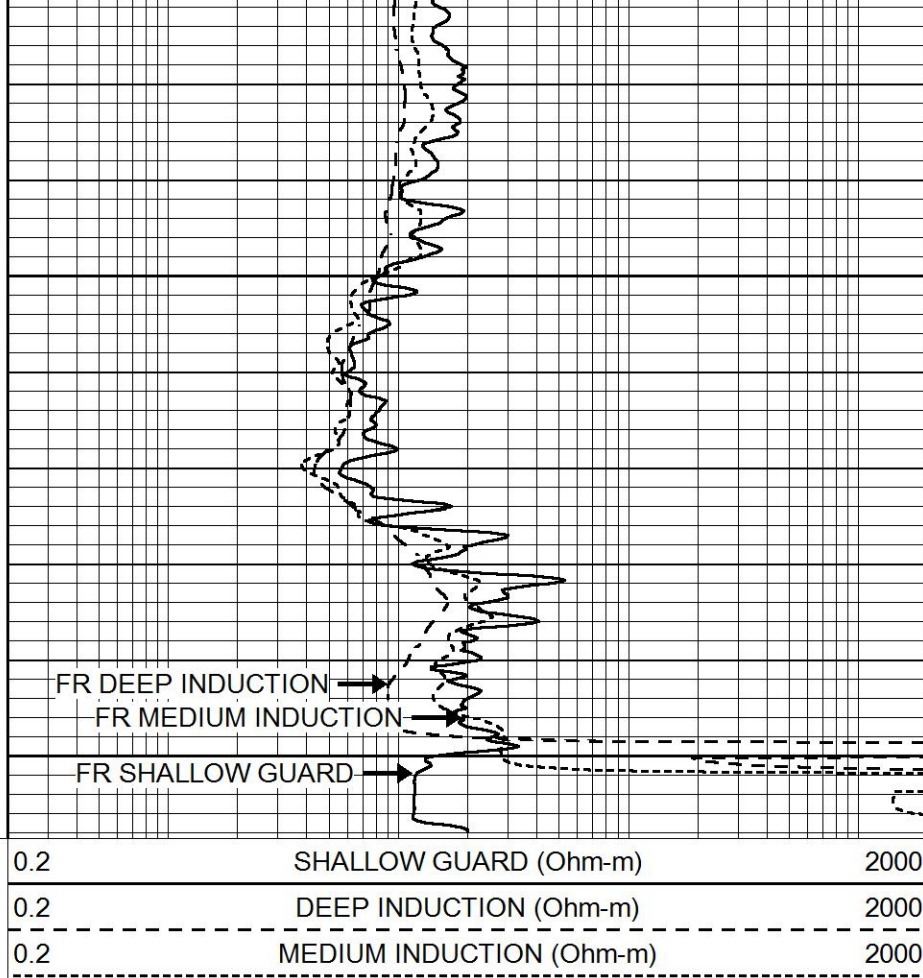
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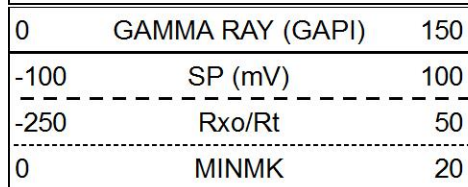
4100

4150
LTD 4154

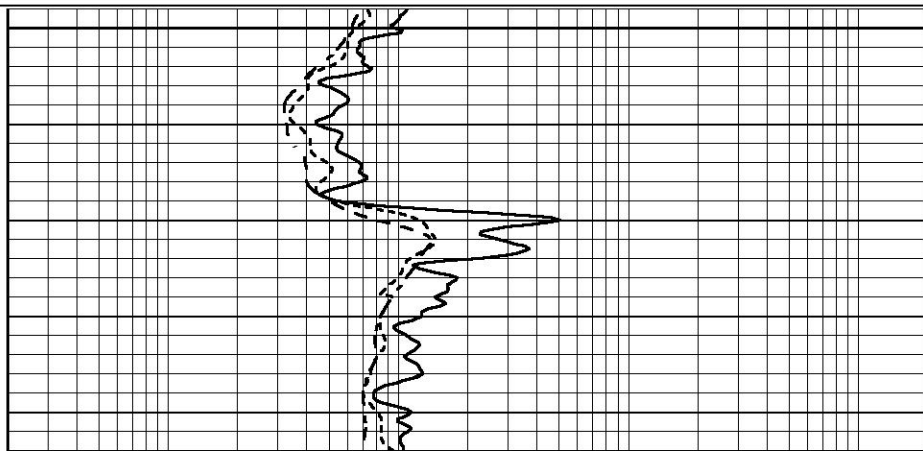
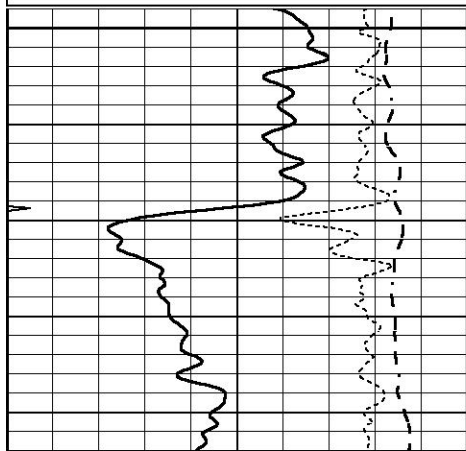
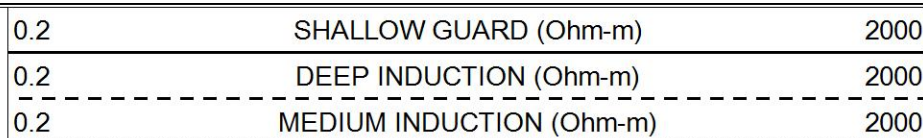


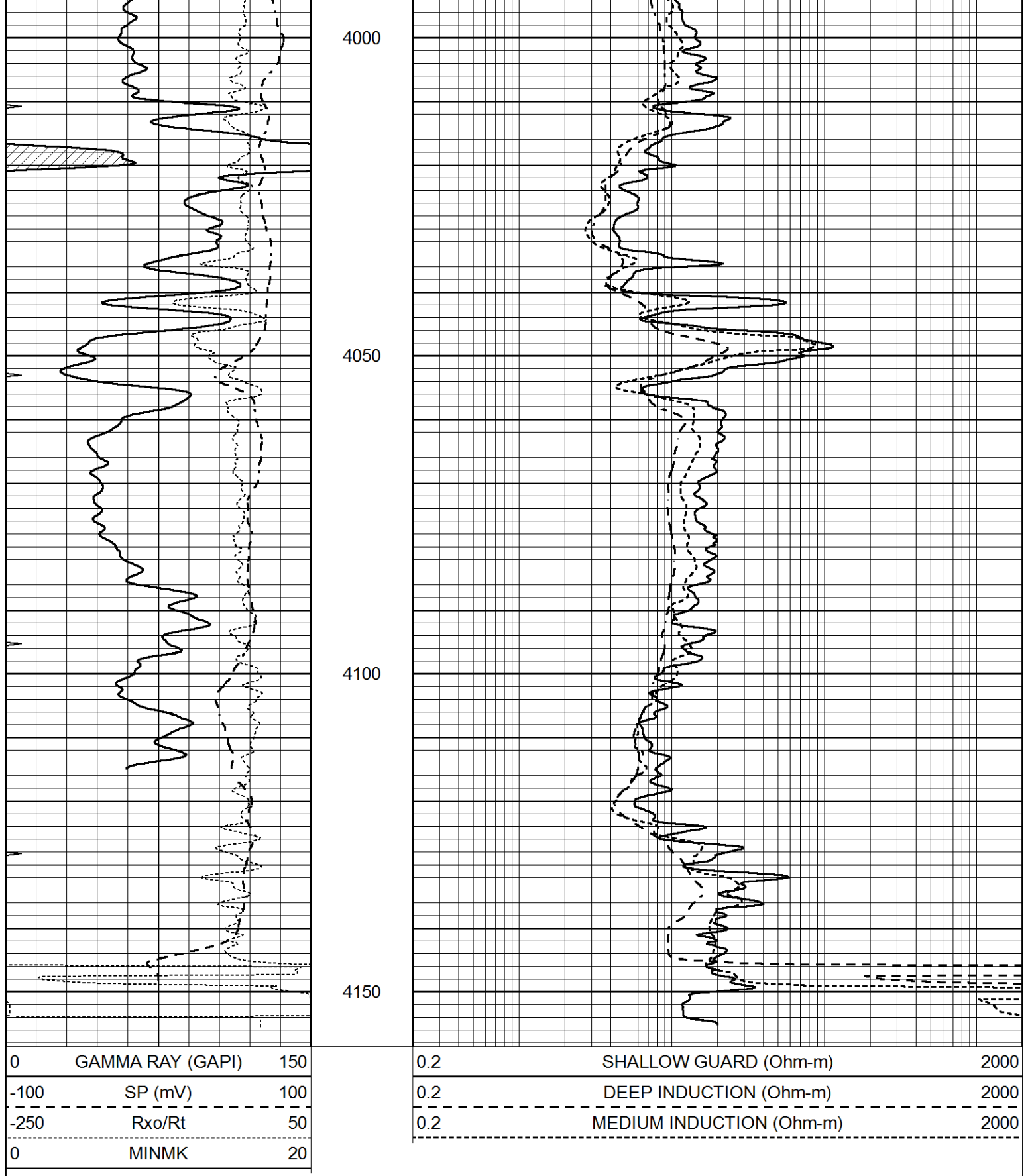
REPEAT SECTION

Database File 5269ddn.db
 Dataset Pathname pass2.2R
 Presentation Format _dil
 Dataset Creation Sun May 02 23:39:27 2021
 Charted by Depth in Feet scaled 1:240



3950





Calibration Report

Database File 5269ddn.db
 Dataset Pathname pass3.3K
 Dataset Creation Mon May 03 00:28:49 2021

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
 Surface Cal Performed: Sun May 02 22:40:22 2021

Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	720.000	-18.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	720.000	-18.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings			References				Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification								
Readings			Targets				Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report								
Serial: 004				Model: PRB				

Master Calibration					Performed Thu Jan 28 13:15:53 2021			
	Background		Magnesium		Aluminum		Aluminum+Fe	
Window 1	1182.9		9855.6		3179.6		2818.8	
Window 2	1073.6		8204.9		2708.2		2458.3	
Window 3	887.9		4656.3		1694.9		1596.1	
Window 4	243.5		250.4		242.2		245.6	
Long Space	0.0		7131.3		1634.6		1384.6	
Short Space	1.6		1661.2		1115.7		935.2	
Rho			1.7100		2.5900		0.0000	
Pe			2.0000		2.7500		5.7900	
Rib Angle	: 44.9		Rib Slope	: 0.996	Density/Spine Ratio		: 0.577	
Spine Angle	: 74.9		Spine Slope	: 3.700	Spine Intercept		: -18.6	

Before Survey Verification					Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0		0.0		0.0		0.0	
Window 2	0.0		0.0		0.0		0.0	
Window 3	0.0		0.0		0.0		0.0	
Window 4	0.0		0.0		0.0		0.0	
Long Space	0.0		0.0		0.0		0.0	
Short Space	0.0		0.0		0.0		0.0	

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	cps
Window 2	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	cps
Short Space	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:		070808PMC		
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:	070558			
Tool Model:	OPEN_GR			
Performed:	Fri Apr 16 13:57:16 2021			
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	0.3000	GAPI/cps		