



DUAL INDUCTION LOG

Company	NEC OPERATING - KANSAS, LLC.	Company	NEC OPERATING - KANSAS, LLC.
Well	BUSHWHACKER #1	Well	BUSHWHACKER #1
Field	GRIGSTON NORTHEAST	Field	GRIGSTON NORTHEAST
County	SCOTT	County	SCOTT
State	KANSAS	State	KANSAS
Location:	API # : 15-171-21317-0000	Other Services CDL/CNL/PE MEL	
Permanent Datum	GROUND LEVEL	Elevation	2926
Log Measured From	KELLY BUSHING 11' A.G.L	K.B. 2937 D.F. 2935 G.L. 2926	
Drilling Measured From	KELLY BUSHING		
SEC 2 TWP 19S RGE 31W			
Date	3/2/24		
Run Number	ONE		
Depth Driller	4700		
Depth Logger	4700		
Bottom Logged Interval	4698		
Top Log Interval	00		
Casing Driller	8.675@352		
Casing Logger	352		
Bit Size	7.785		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,400 PPM	
Density / Viscosity	9.2/60		
pH / Fluid Loss	11.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50@61F		
Rmf @ Meas. Temp	1.13@61F		
Rmc @ Meas. Temp	1.80@61F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.750@122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	5.45 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS	JEREMEY PASEK	
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.

15-171-21317-0000

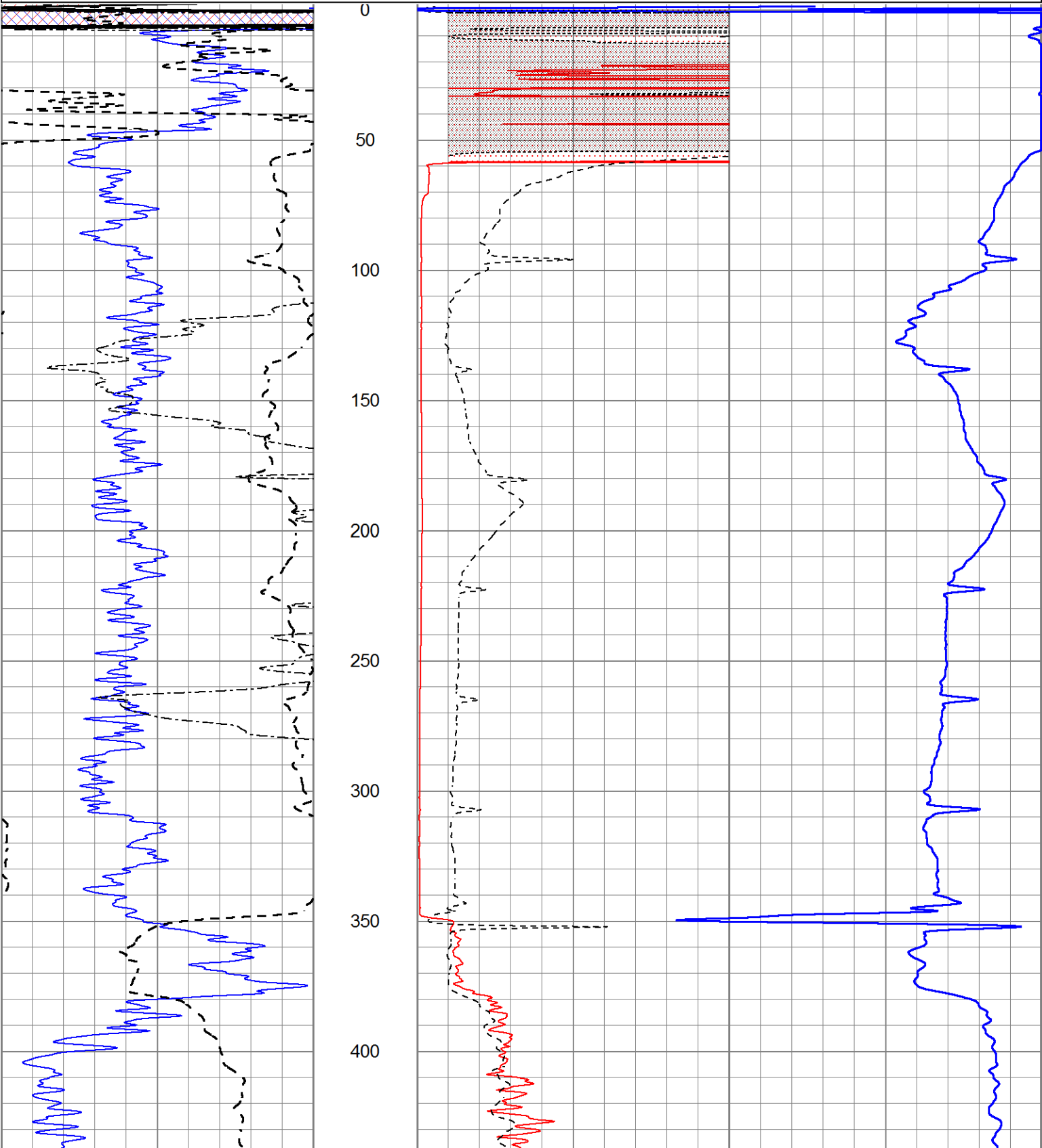
Comments

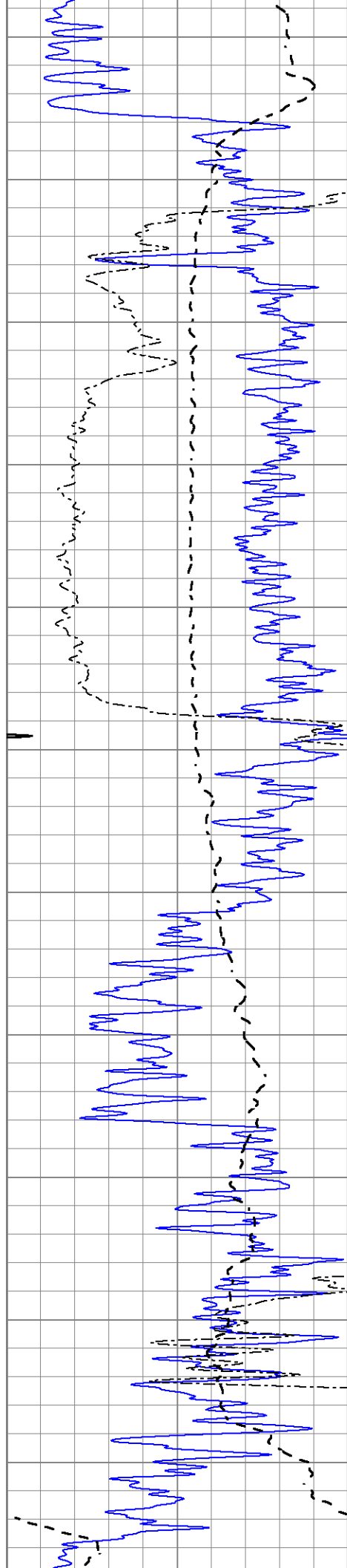
THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS
GRIGSTON, KS., W. ON HWY 96 TO "VENISON RD.", 3S., 3/4E., S. INTO



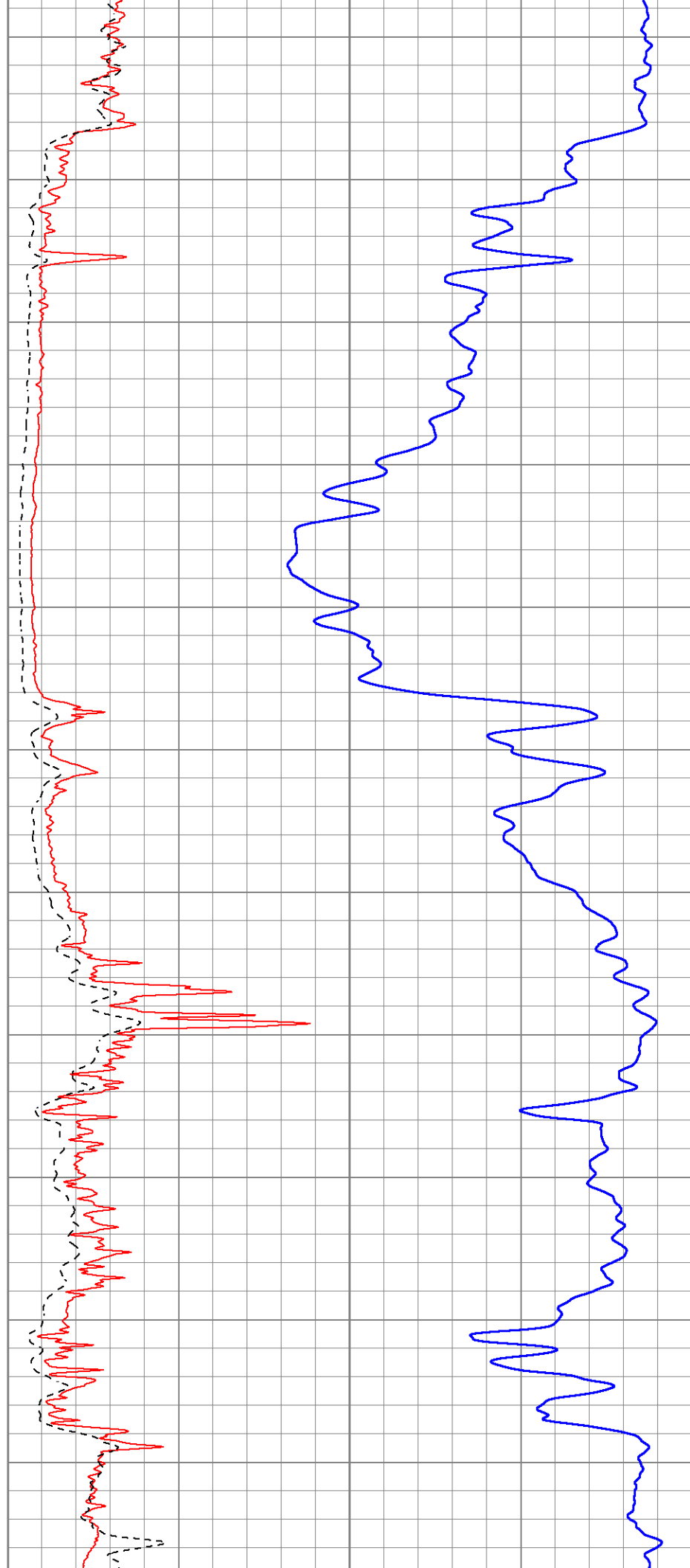
MAIN SECTION

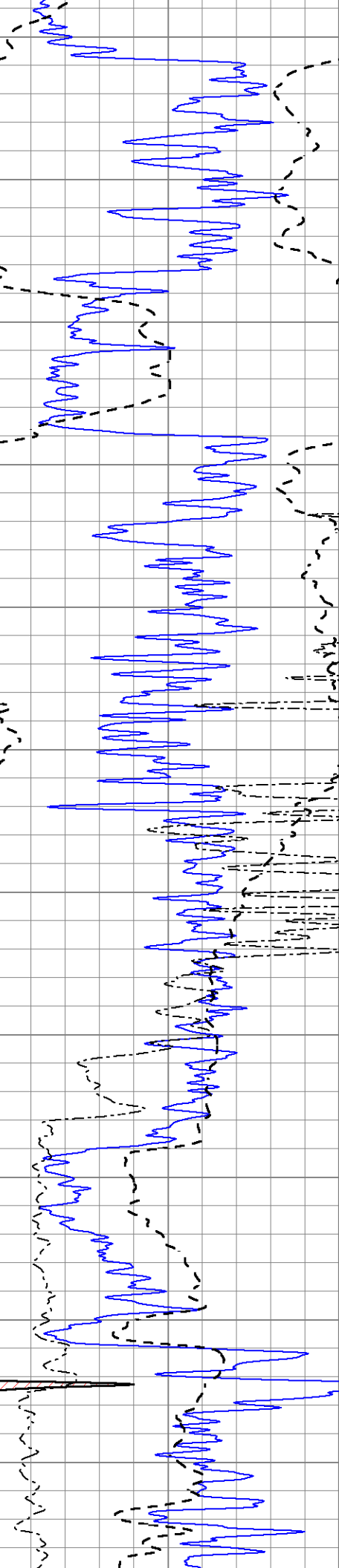
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-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



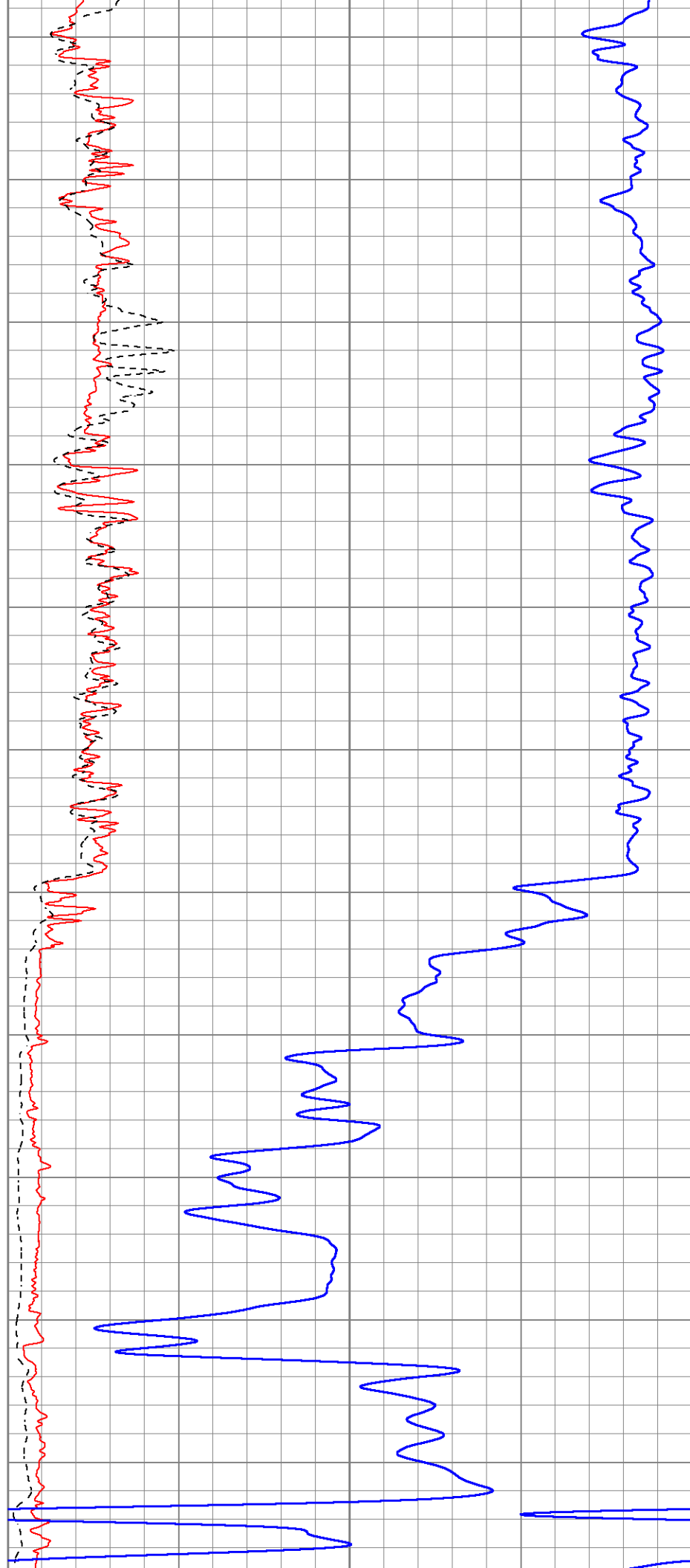


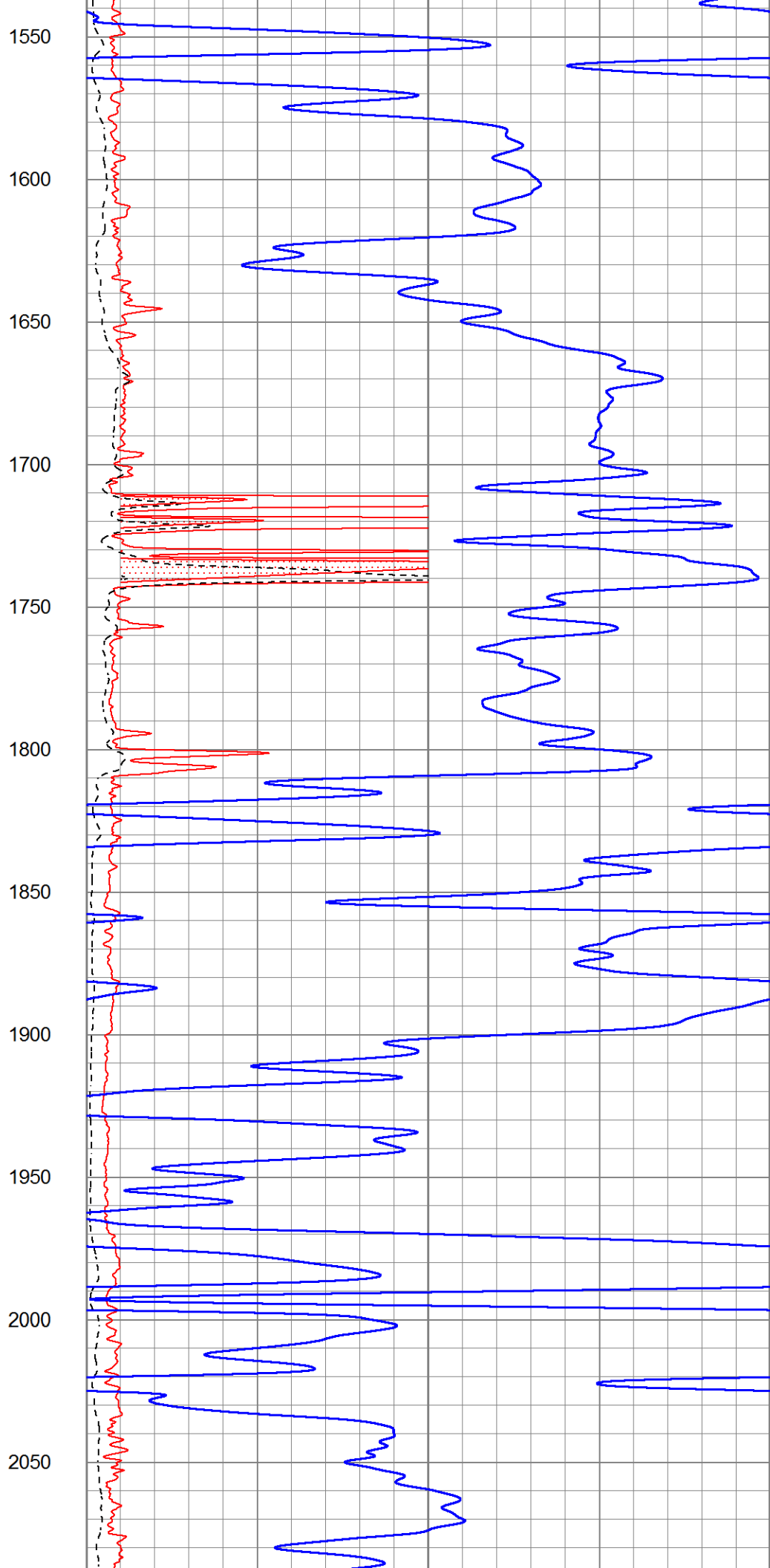
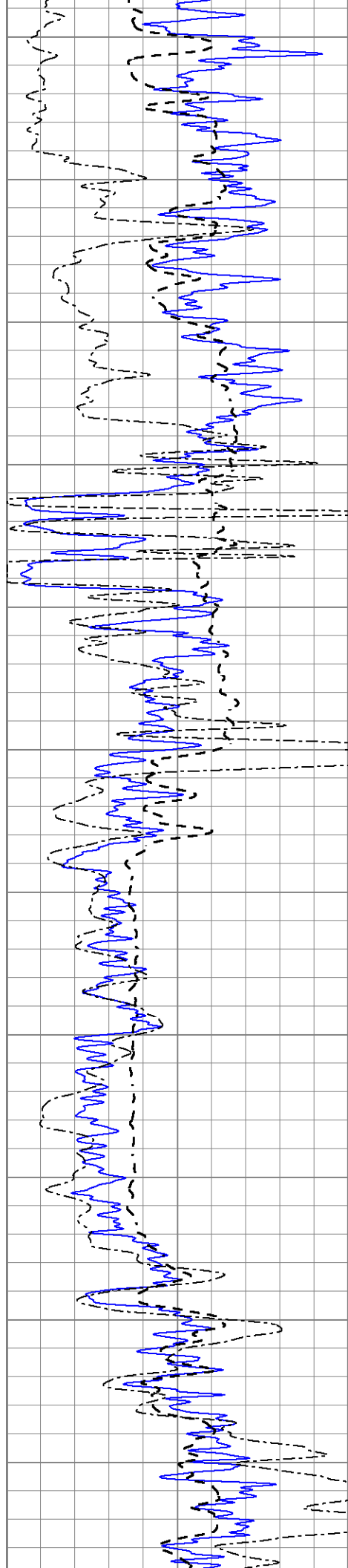
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650
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800
850
900
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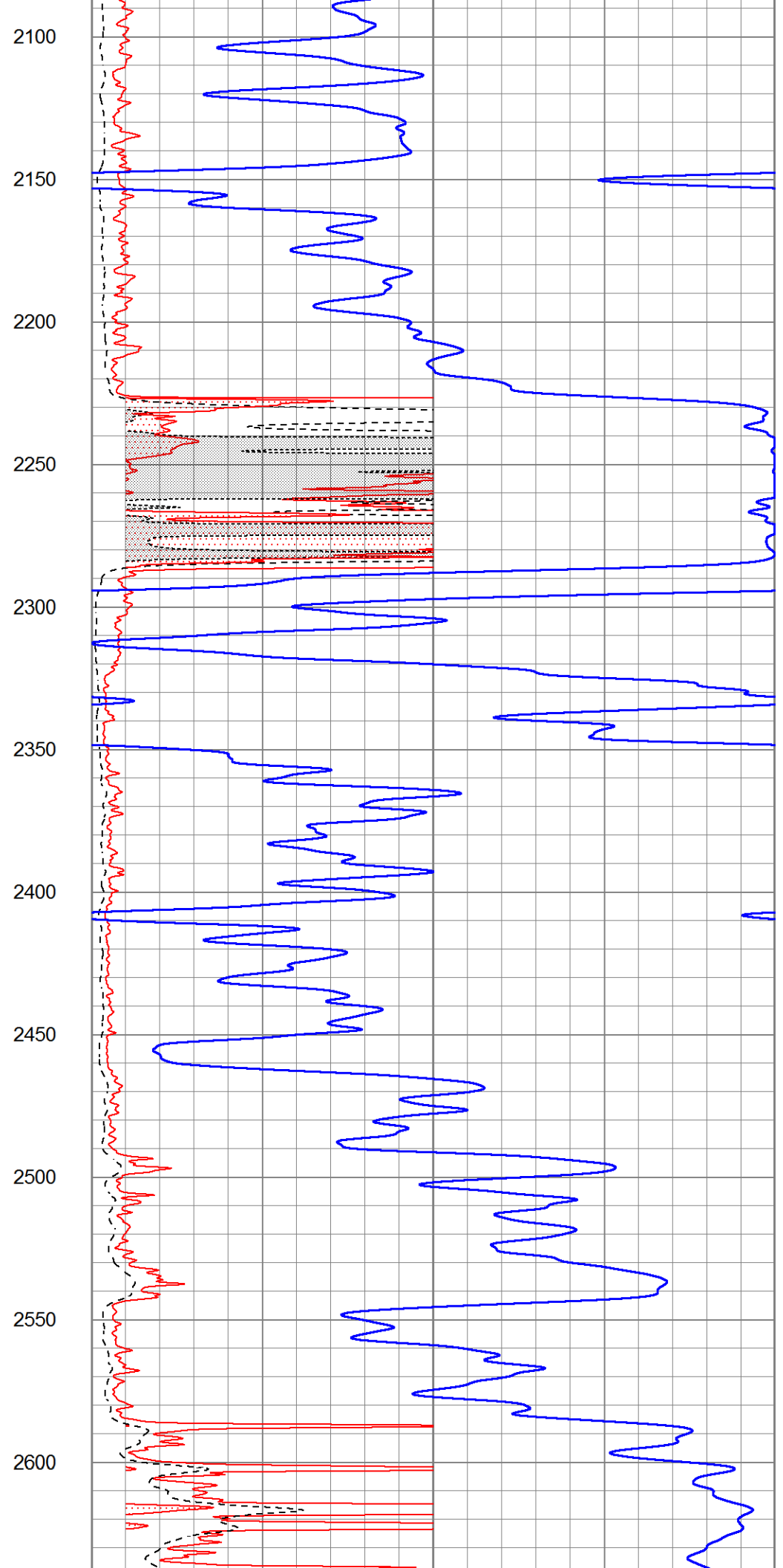
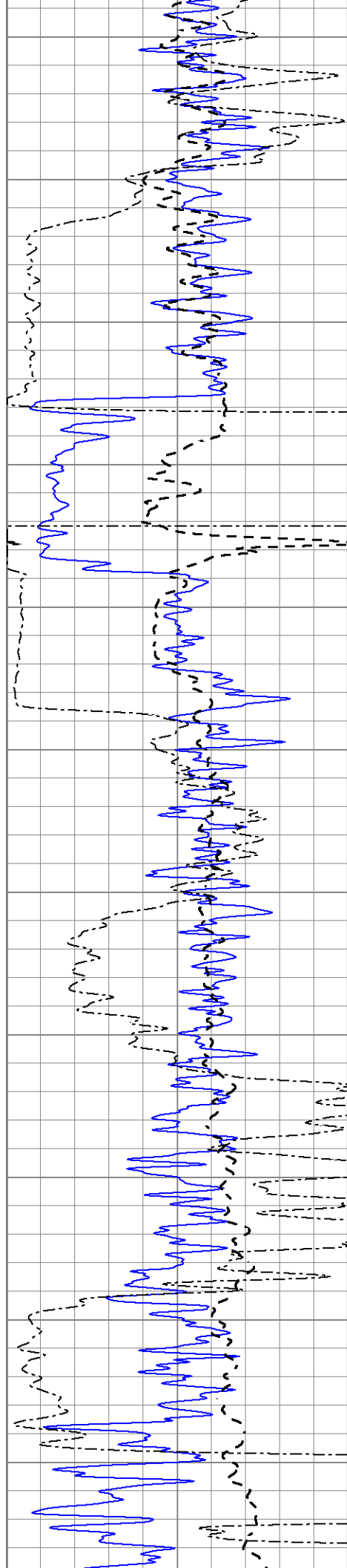


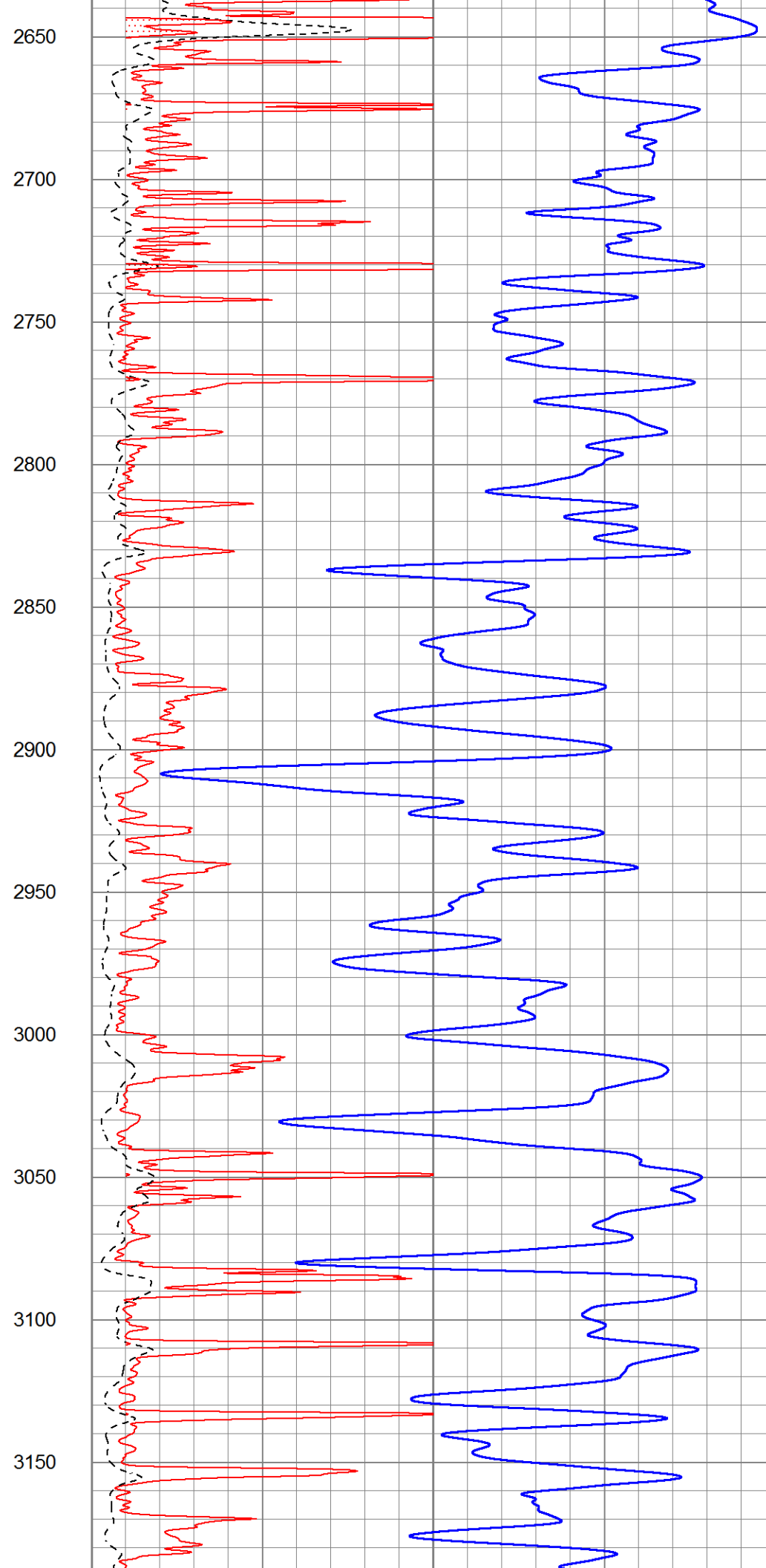
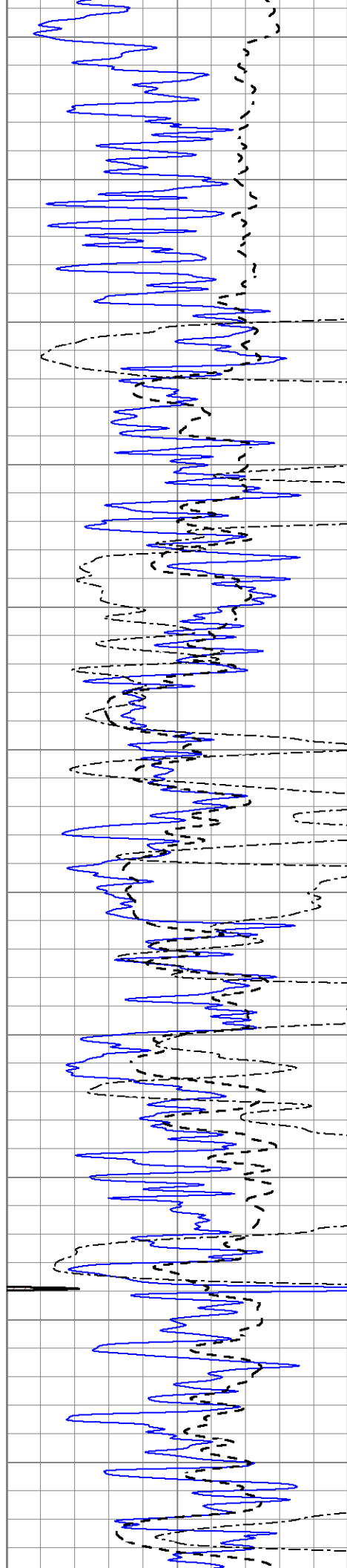


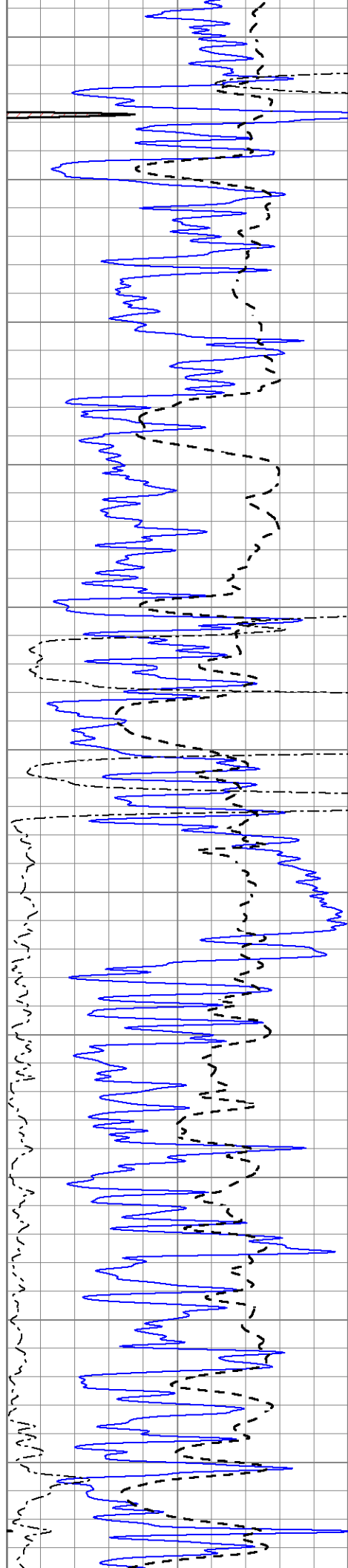
1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500











3200

3250

3300

3350

3400

3450

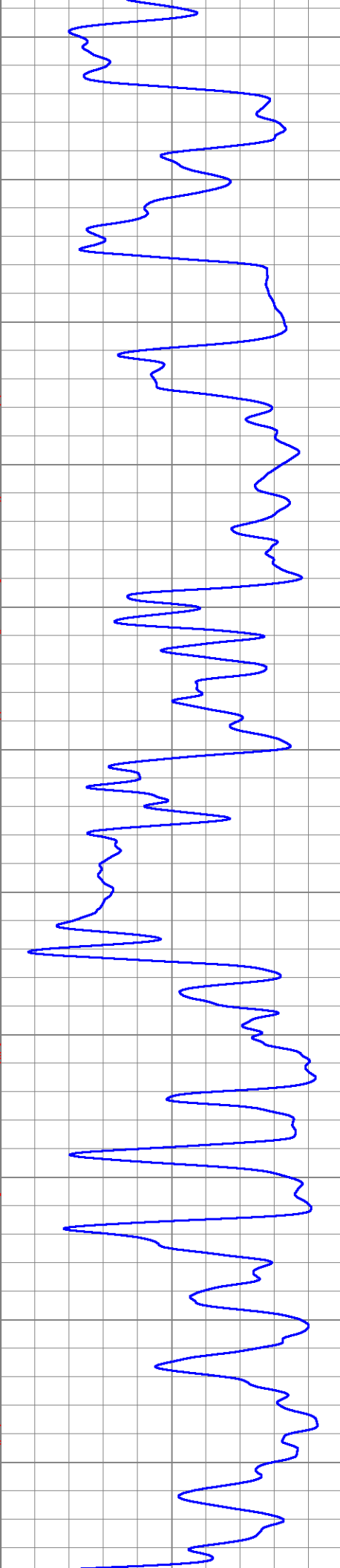
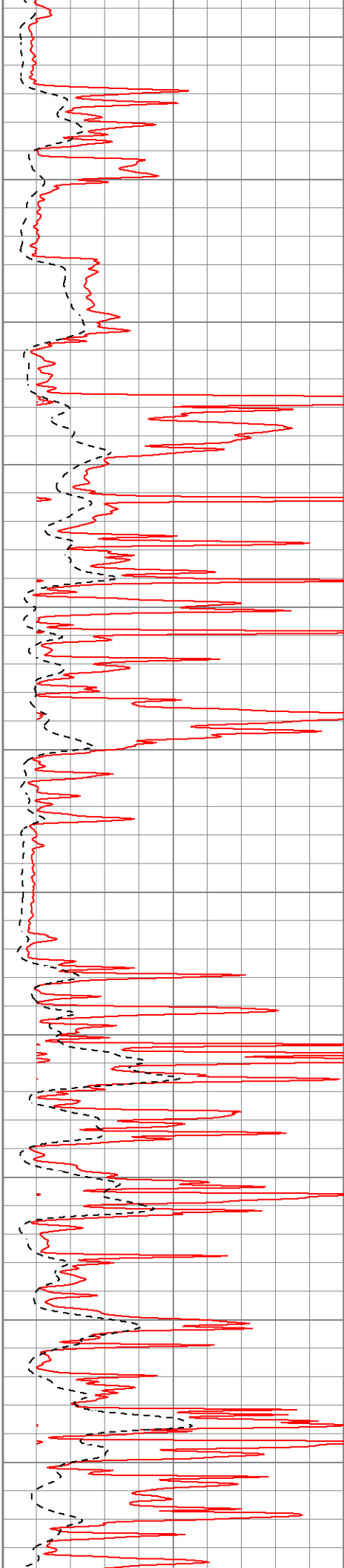
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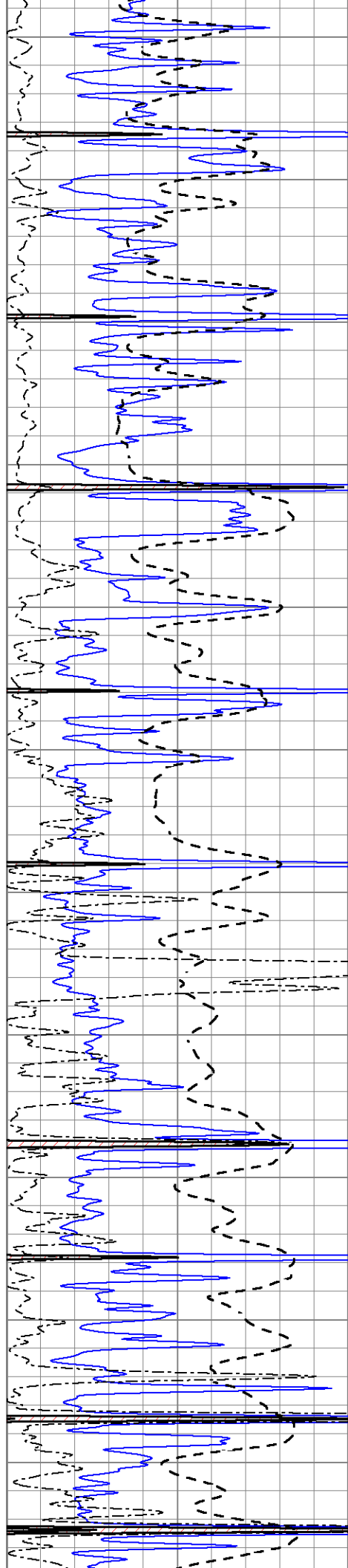
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3600

3650

3700





3750

3800

3850

3900

3950

4000

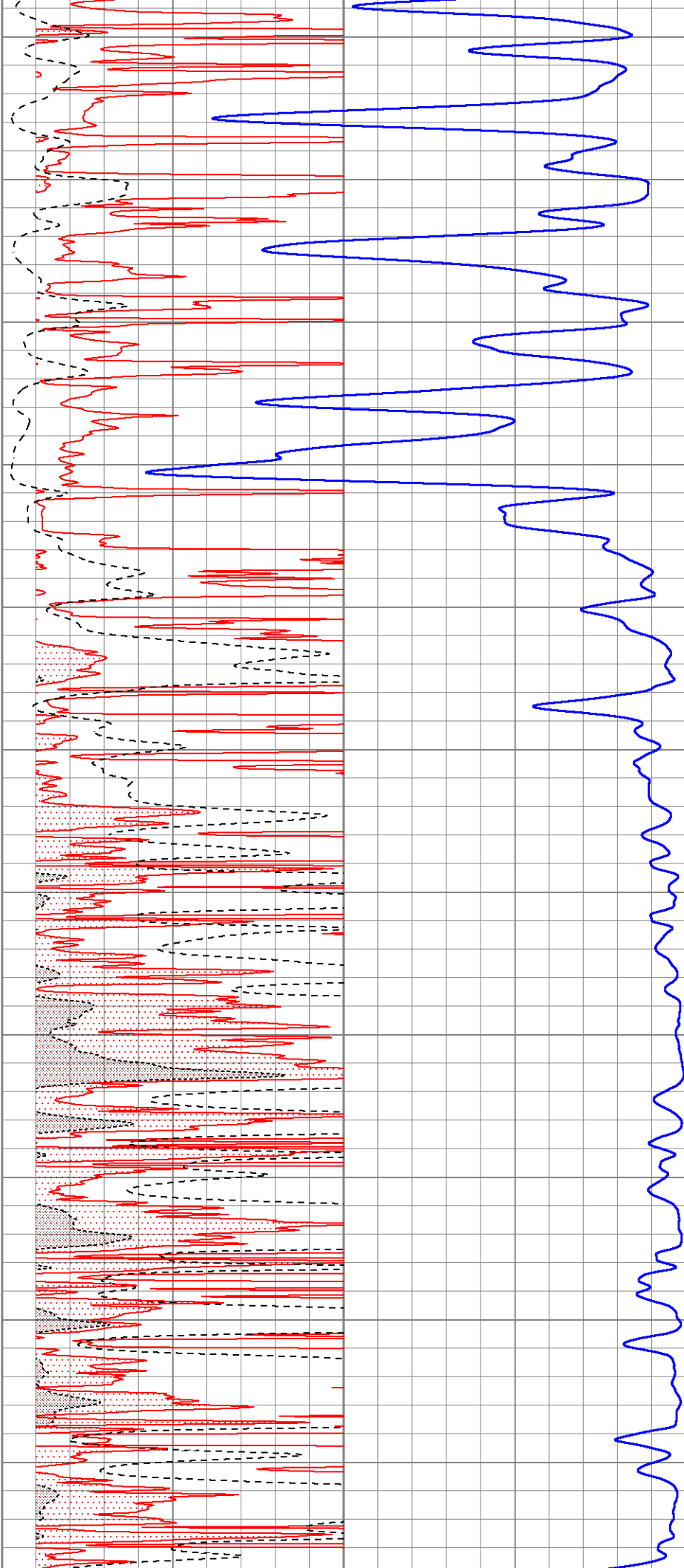
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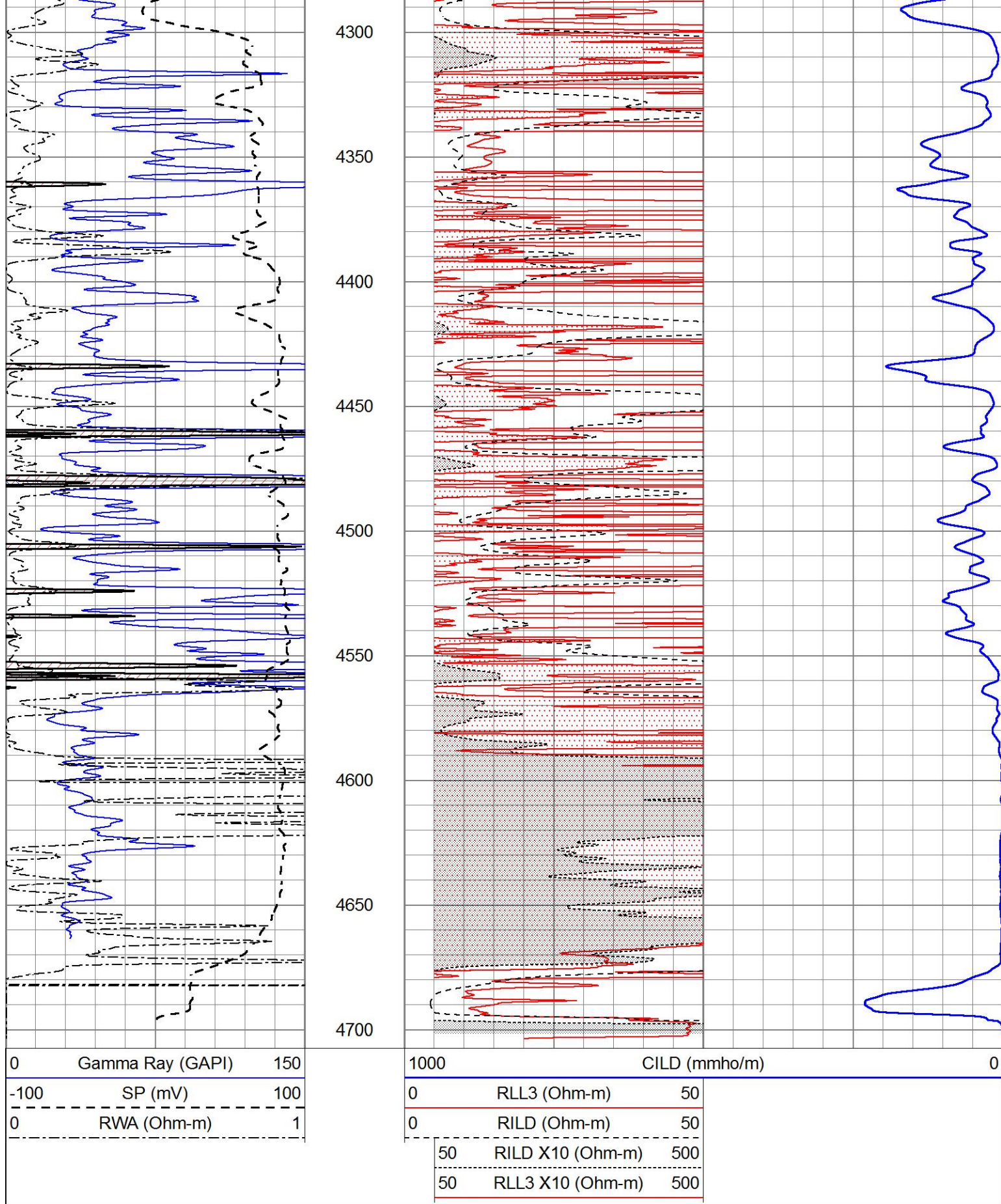
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4150

4200

4250

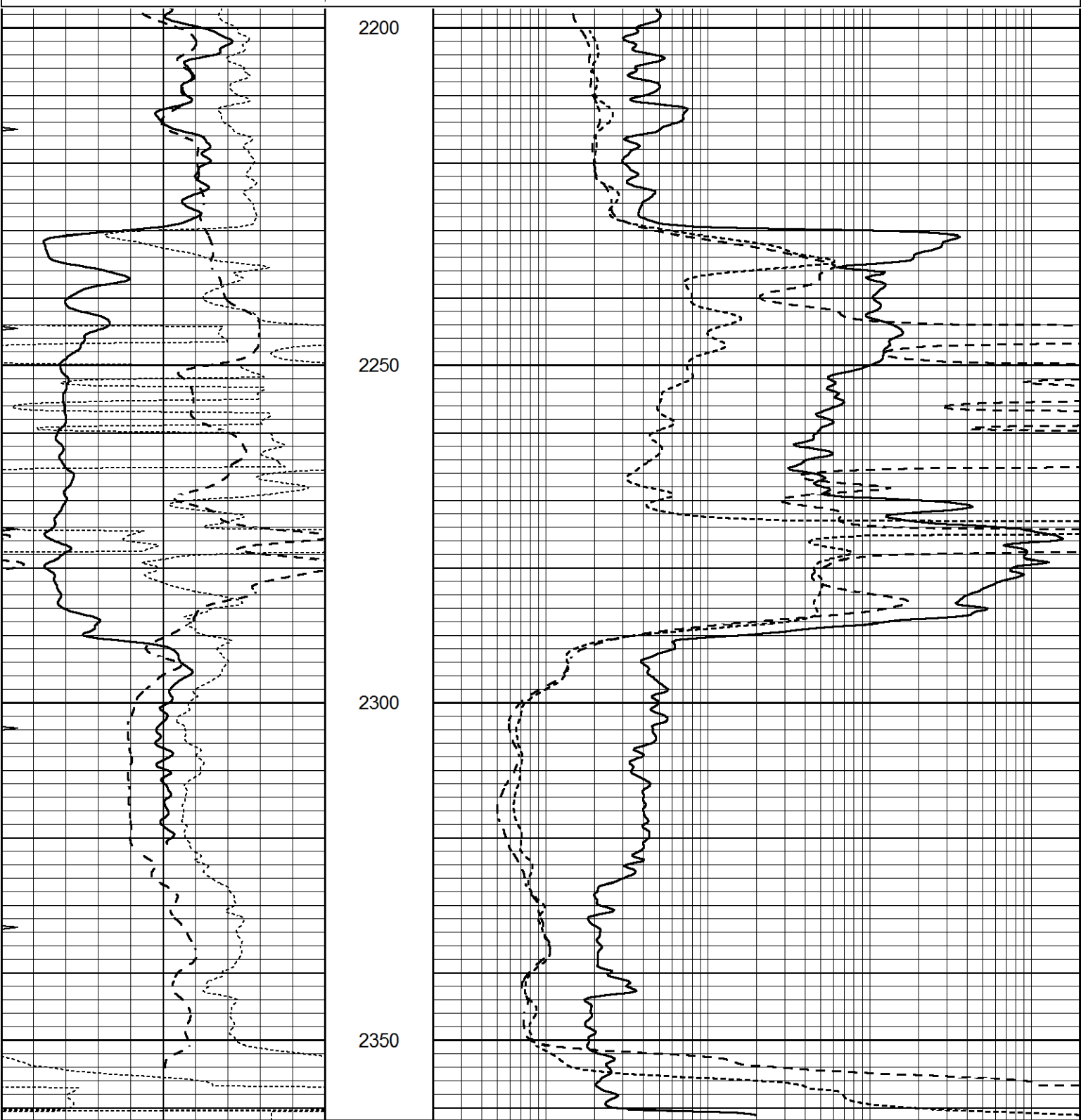




ANHYDRITE REPEAT

Database File	8417pe.db
Dataset Pathname	pass2.1A
Presentation Format	_dil
Dataset Creation	Sat Mar 02 07:12:50 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	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000



ANHYDRITE

Database File8417pe.db

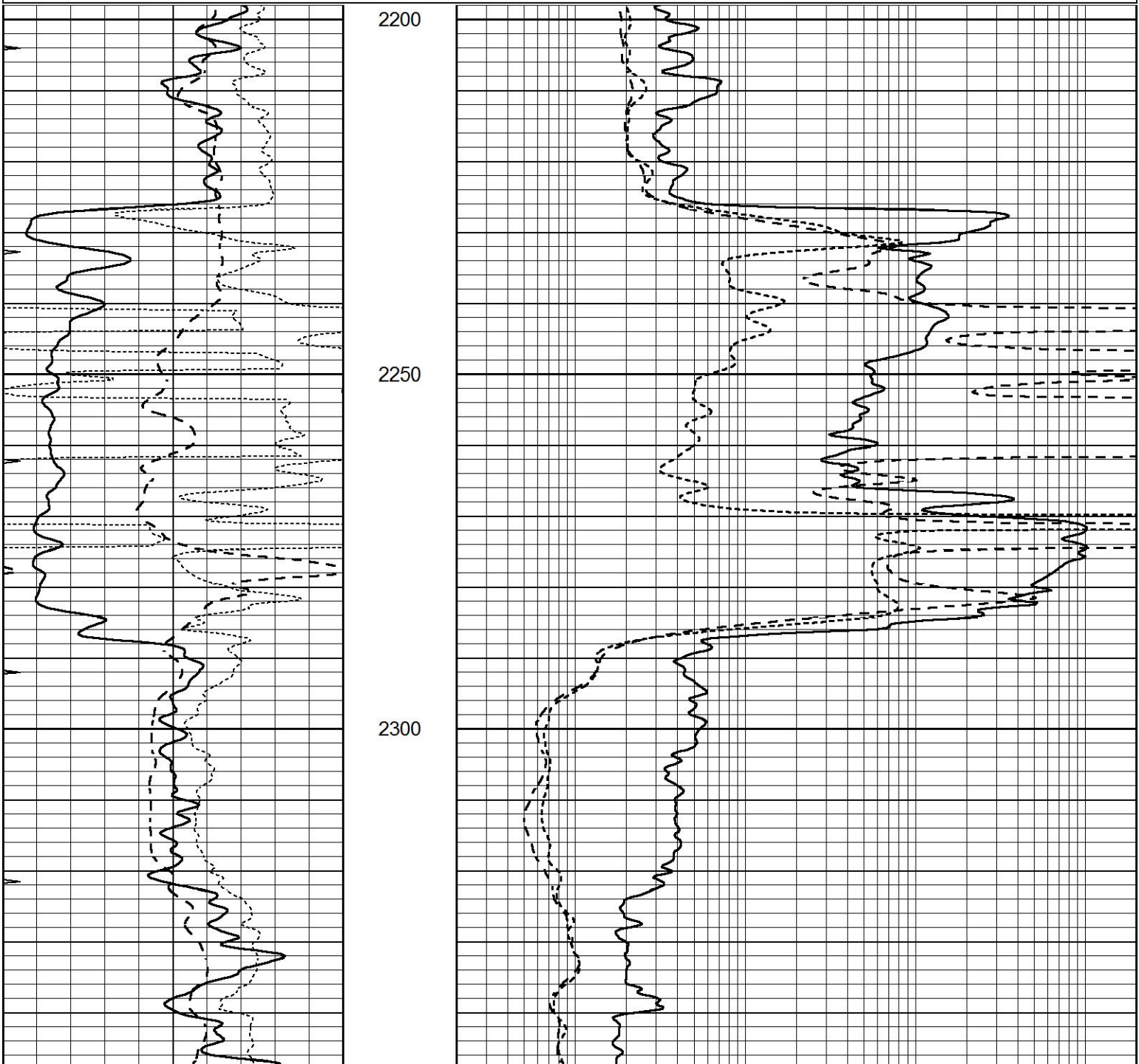
Dataset Pathnamepass4.1A

Presentation Format_dil

Dataset CreationSat Mar 02 07:15:49 2024

Charted byDepth in Feet scaled 1:240

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-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



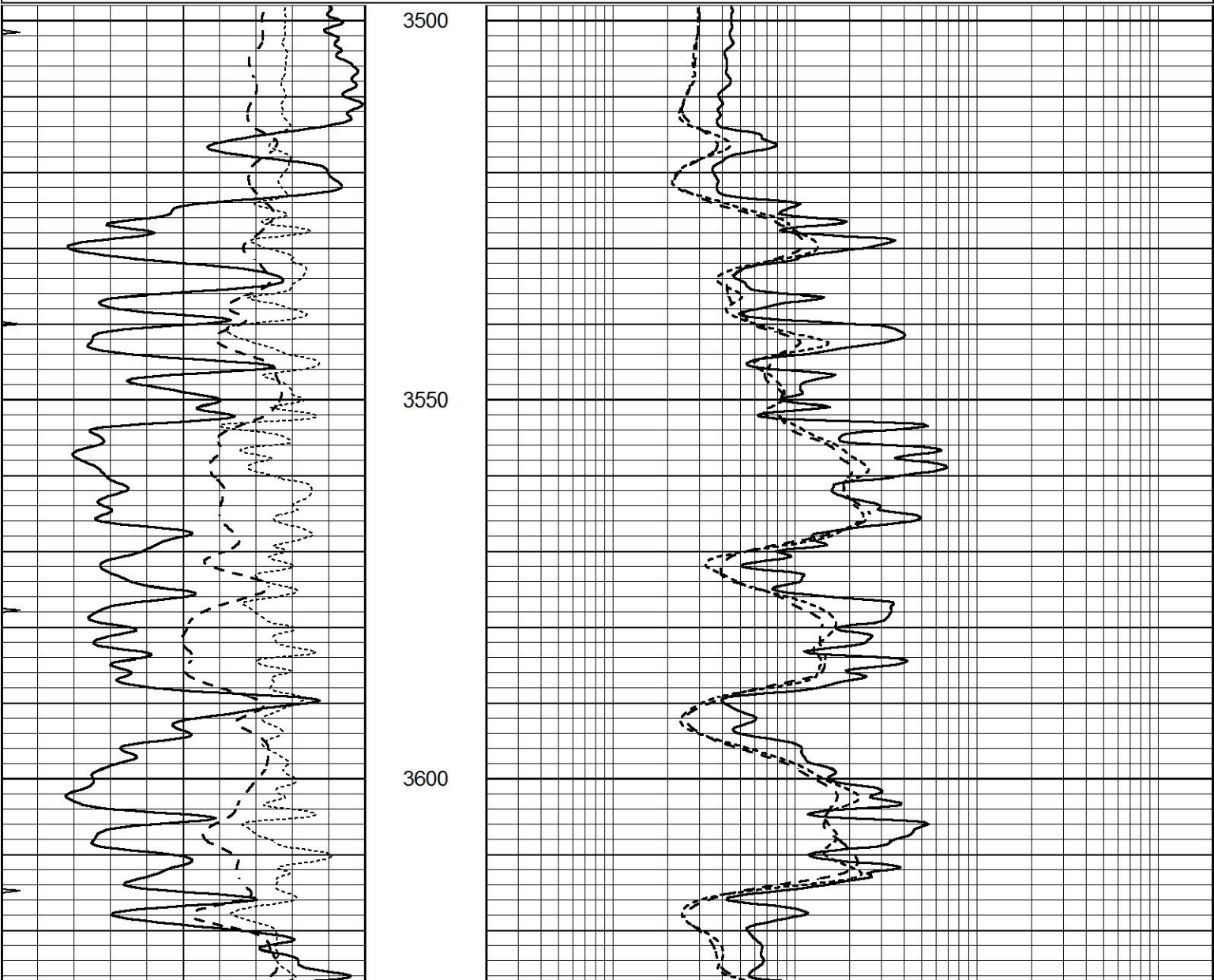
2350					
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			

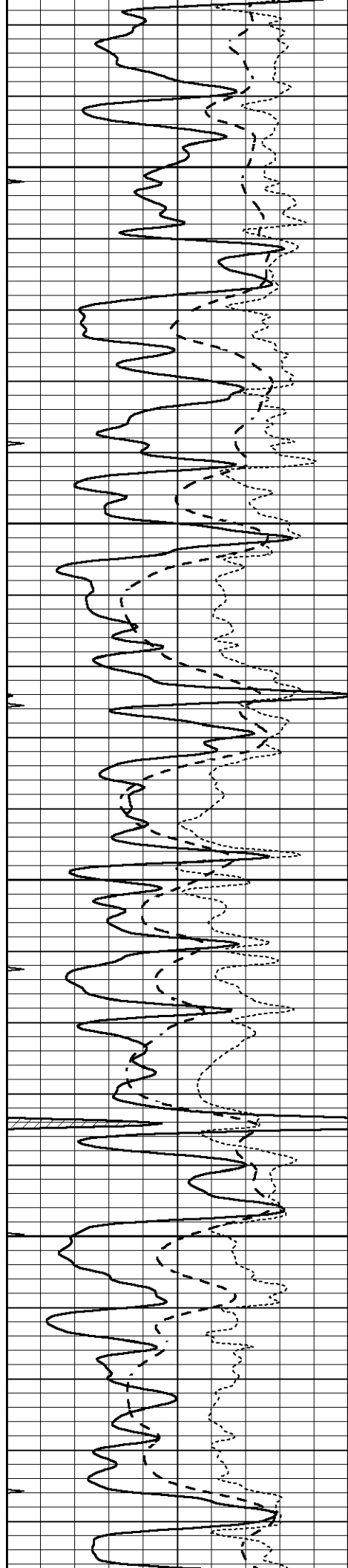


MAIN SECTION

Database File	8417pe.db
Dataset Pathname	pass4.1M
Presentation Format	_dil
Dataset Creation	Sat Mar 02 07:39:35 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	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



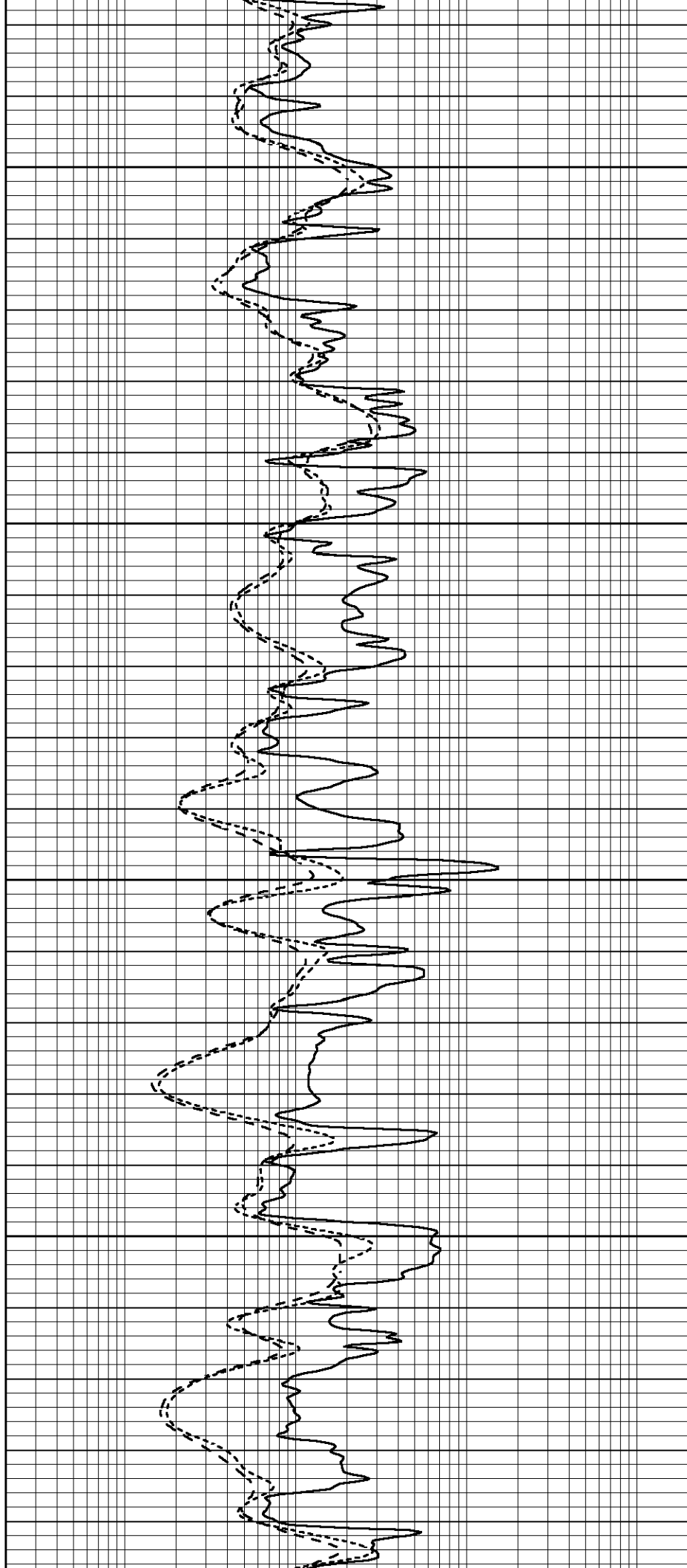


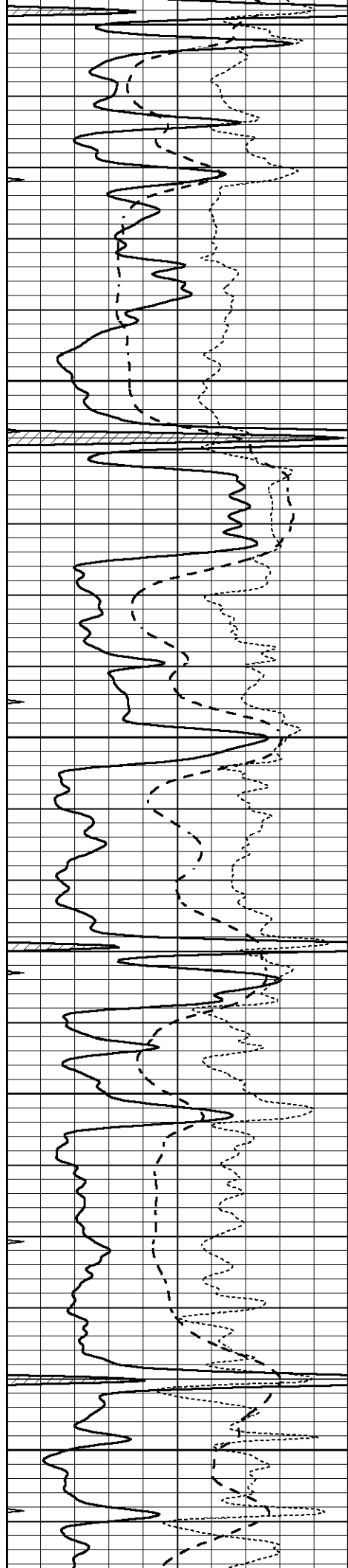
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3700

3750

3800





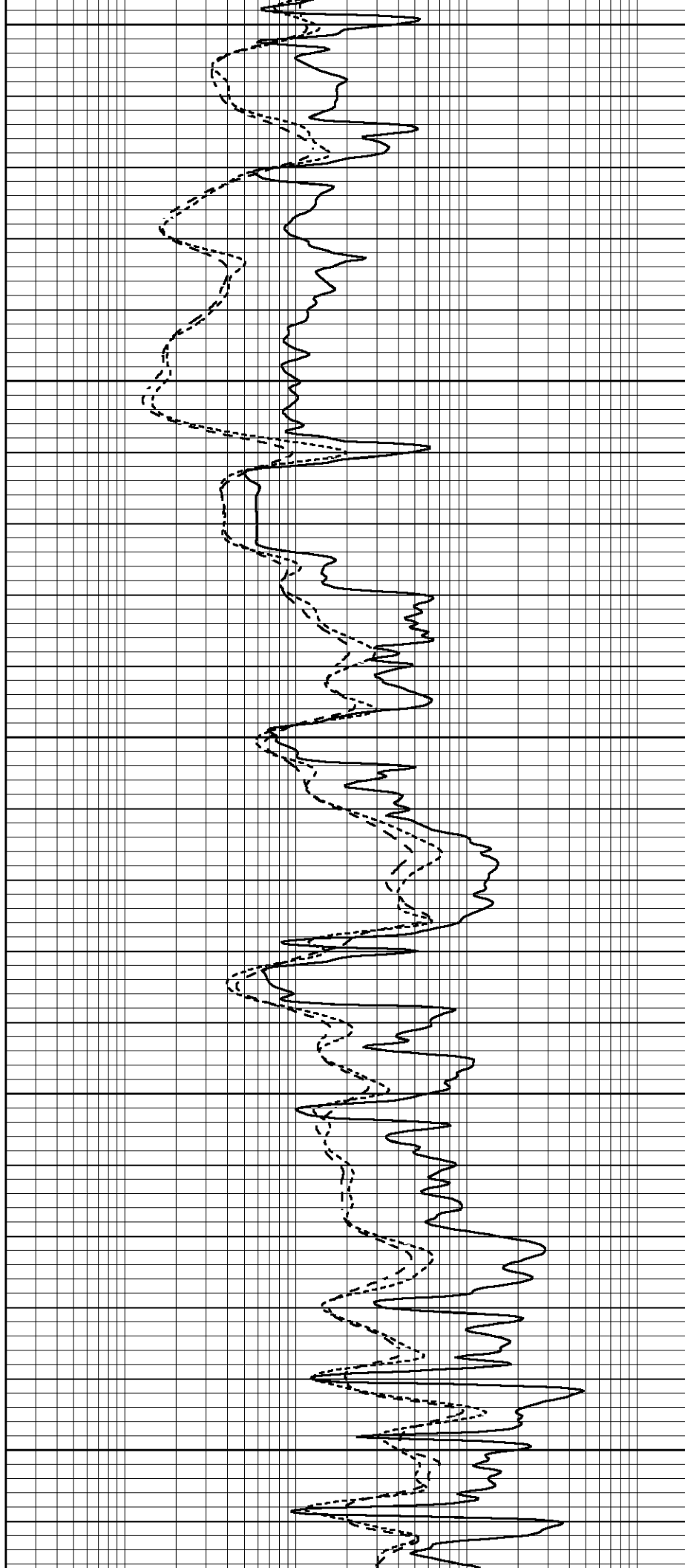
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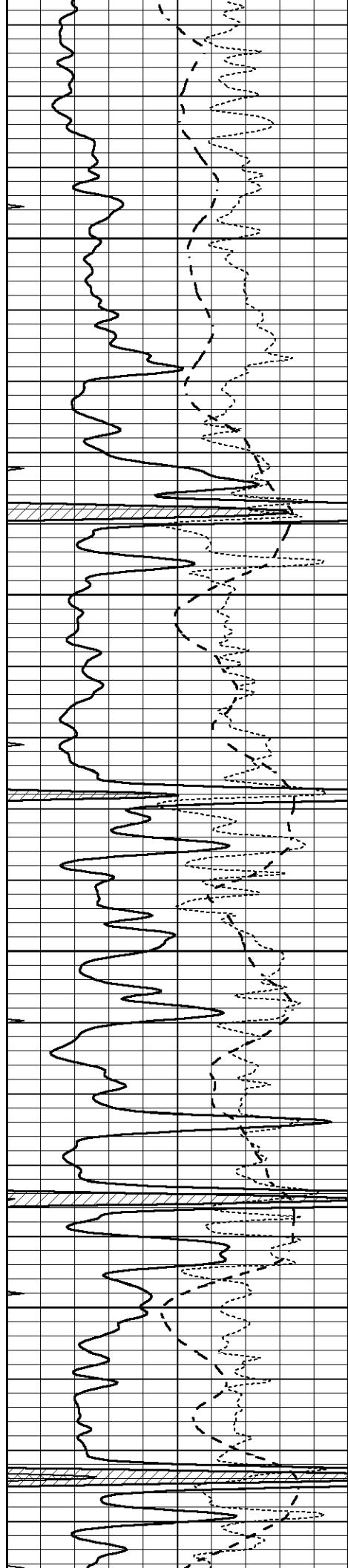
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3950

4000

4050



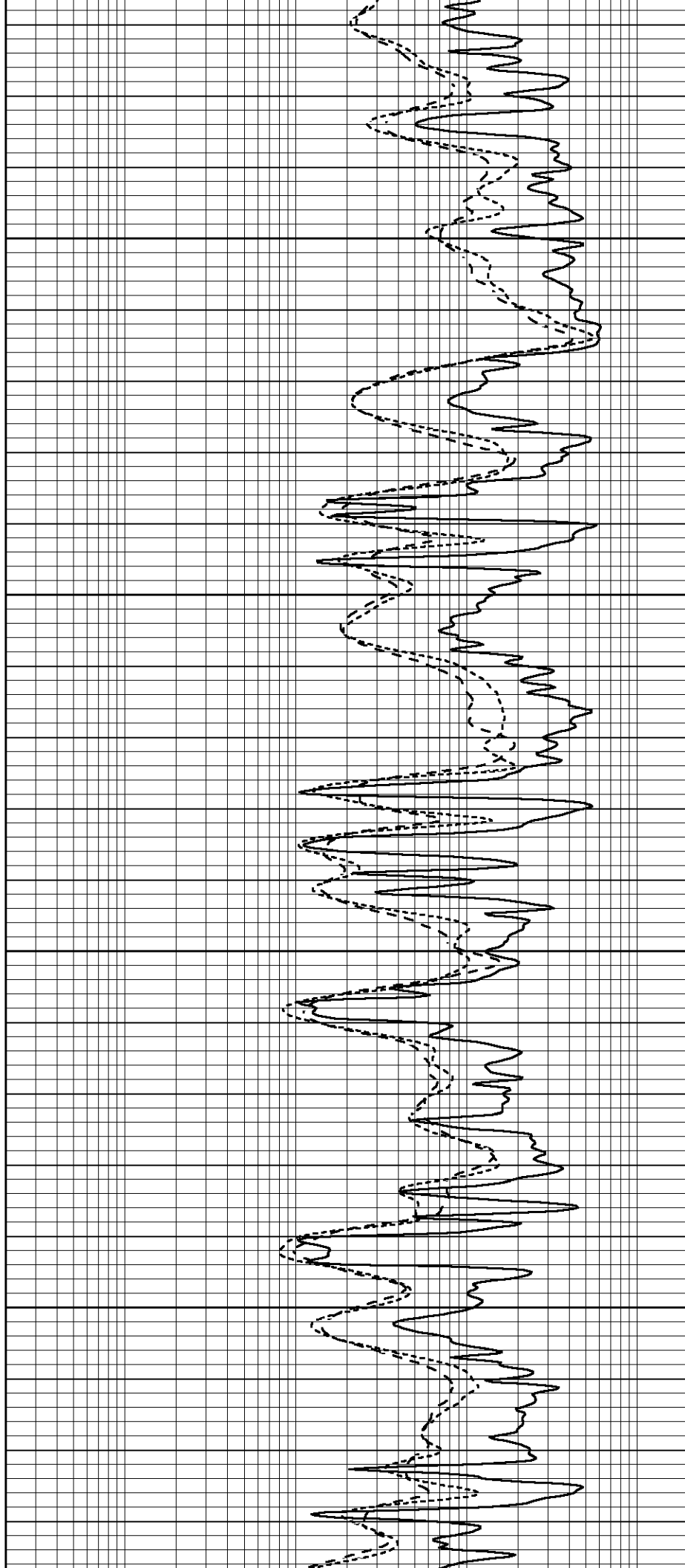


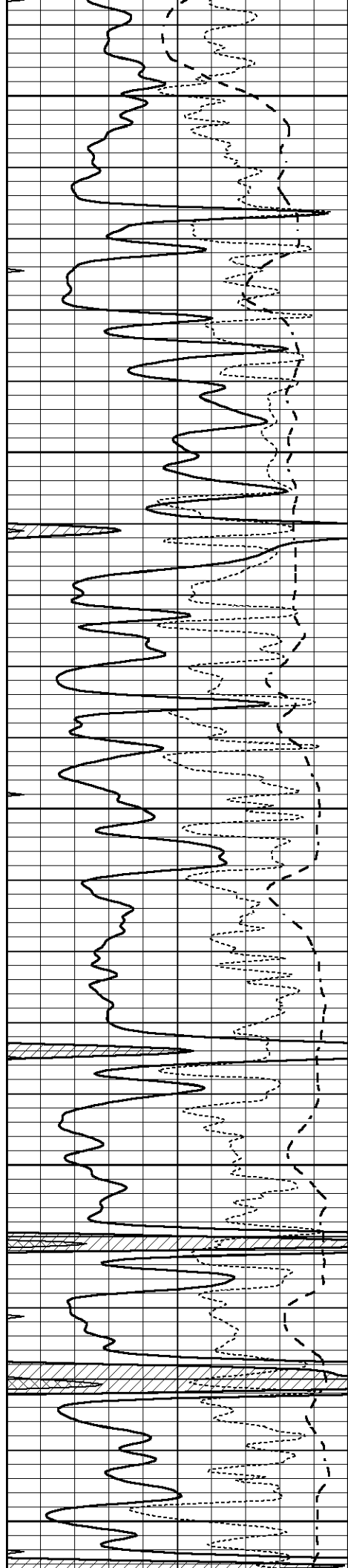
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4150

4200

4250





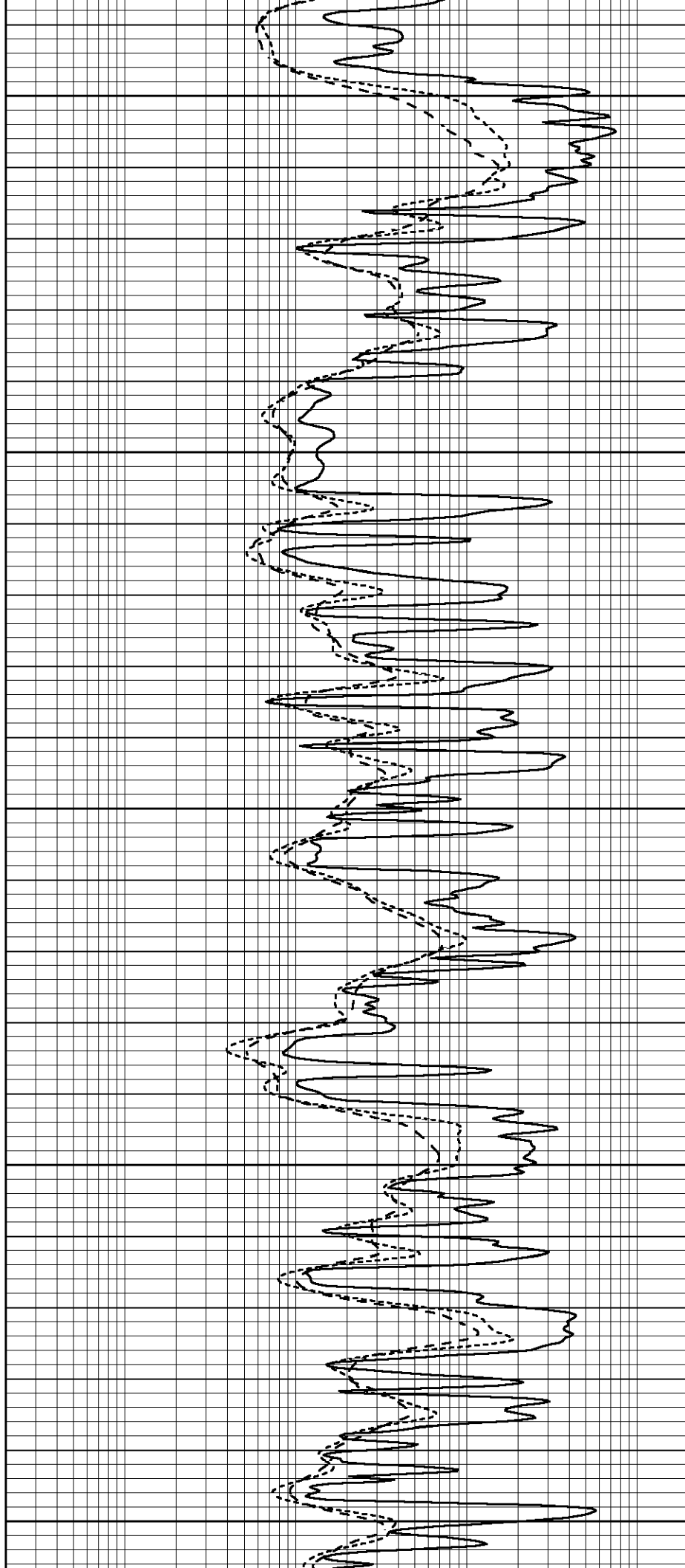
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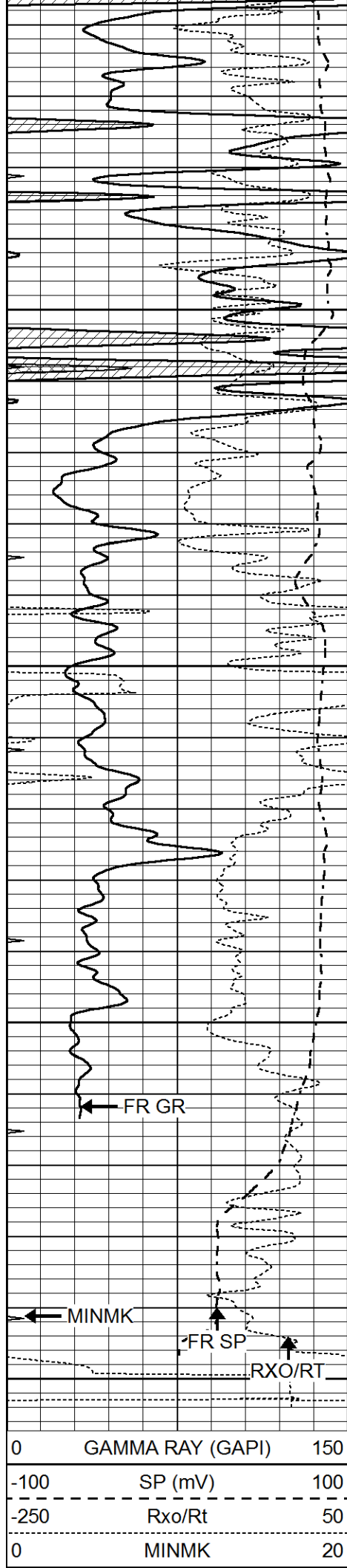
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4450

4500



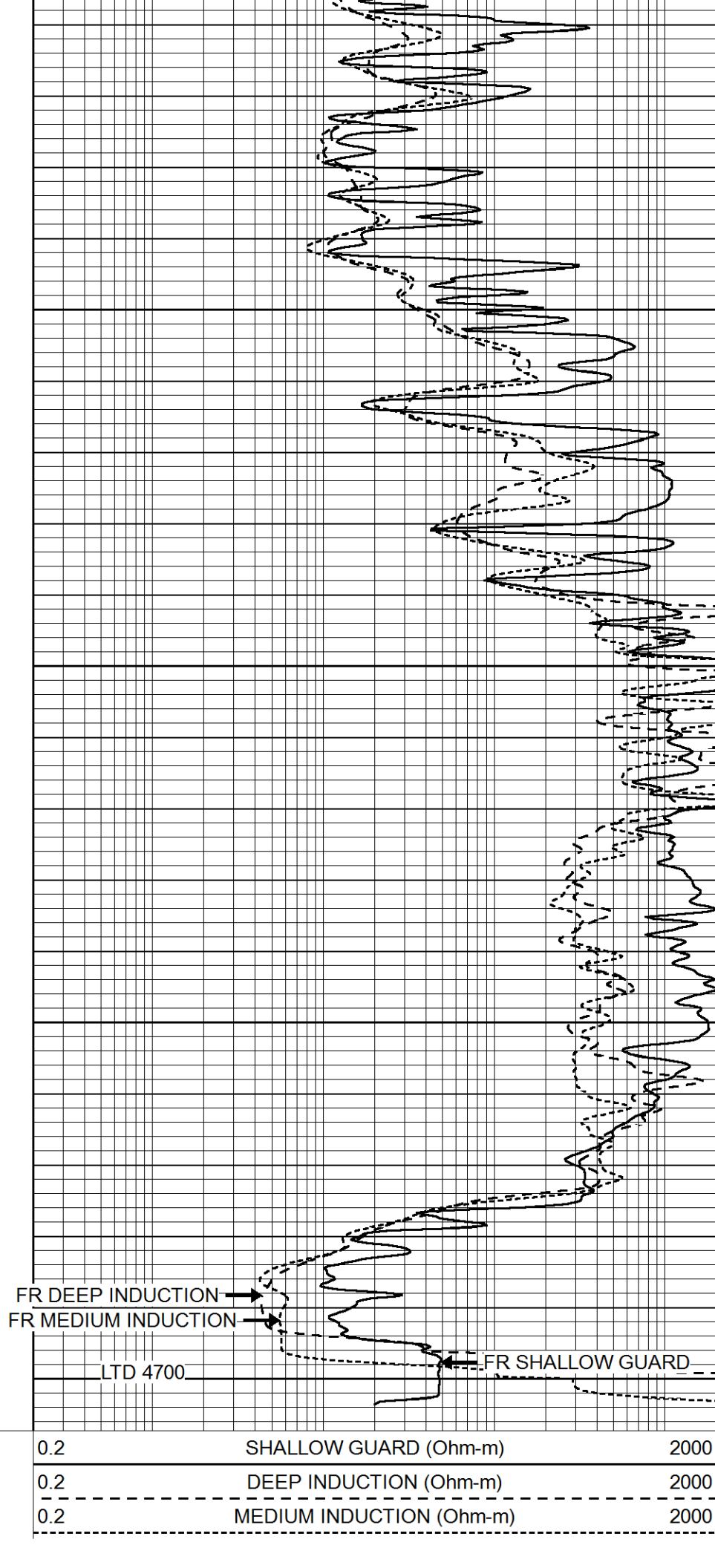


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4600

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4700



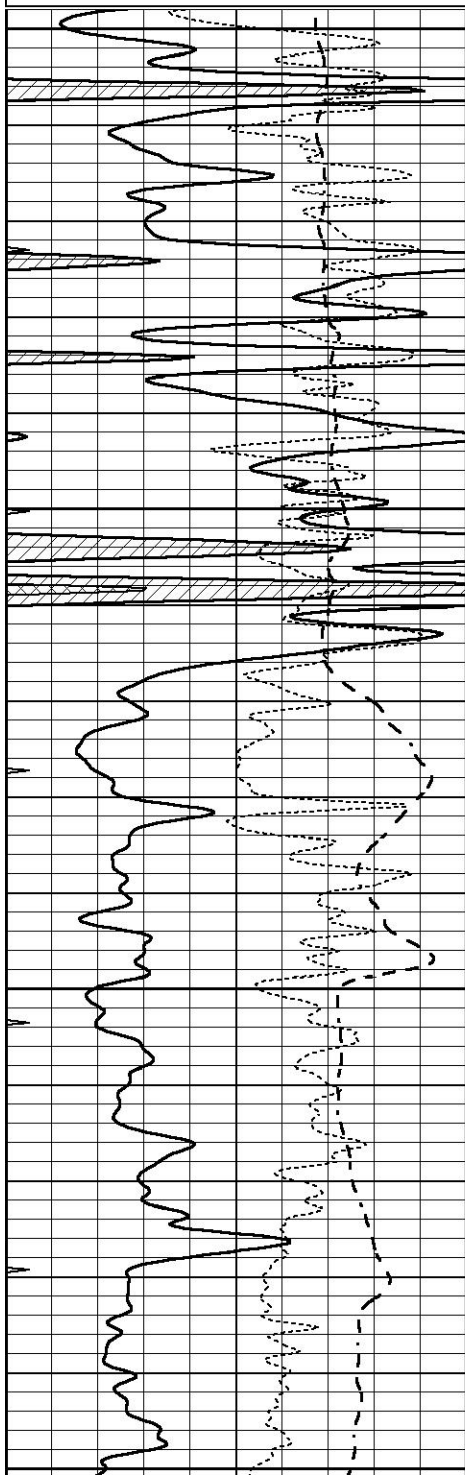


REPEAT SECTION

Database File 8417pe.db
Dataset Pathname pass3.2R
Presentation Format _dil
Dataset Creation Sat Mar 02 07:23:59 2024
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

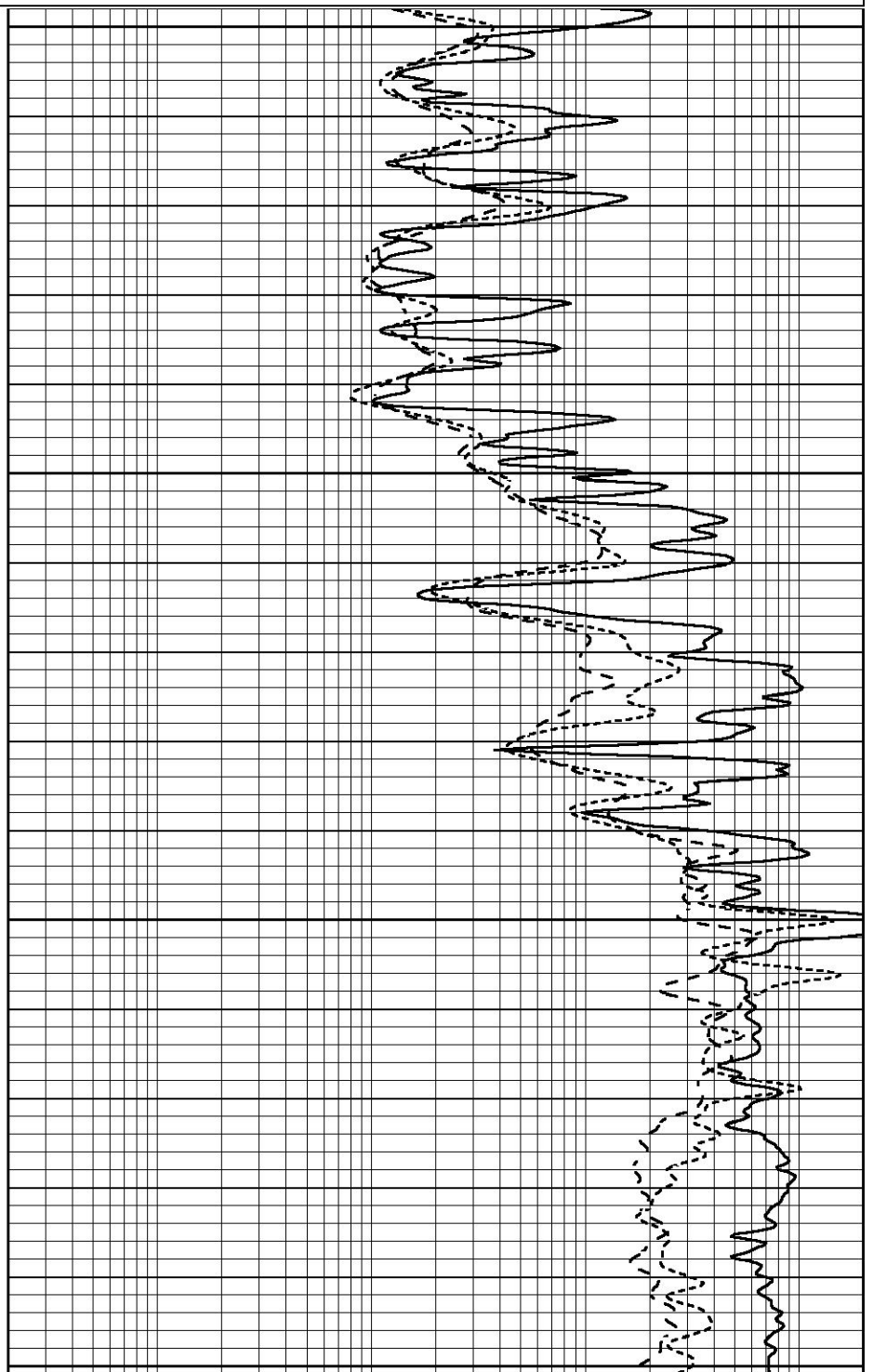


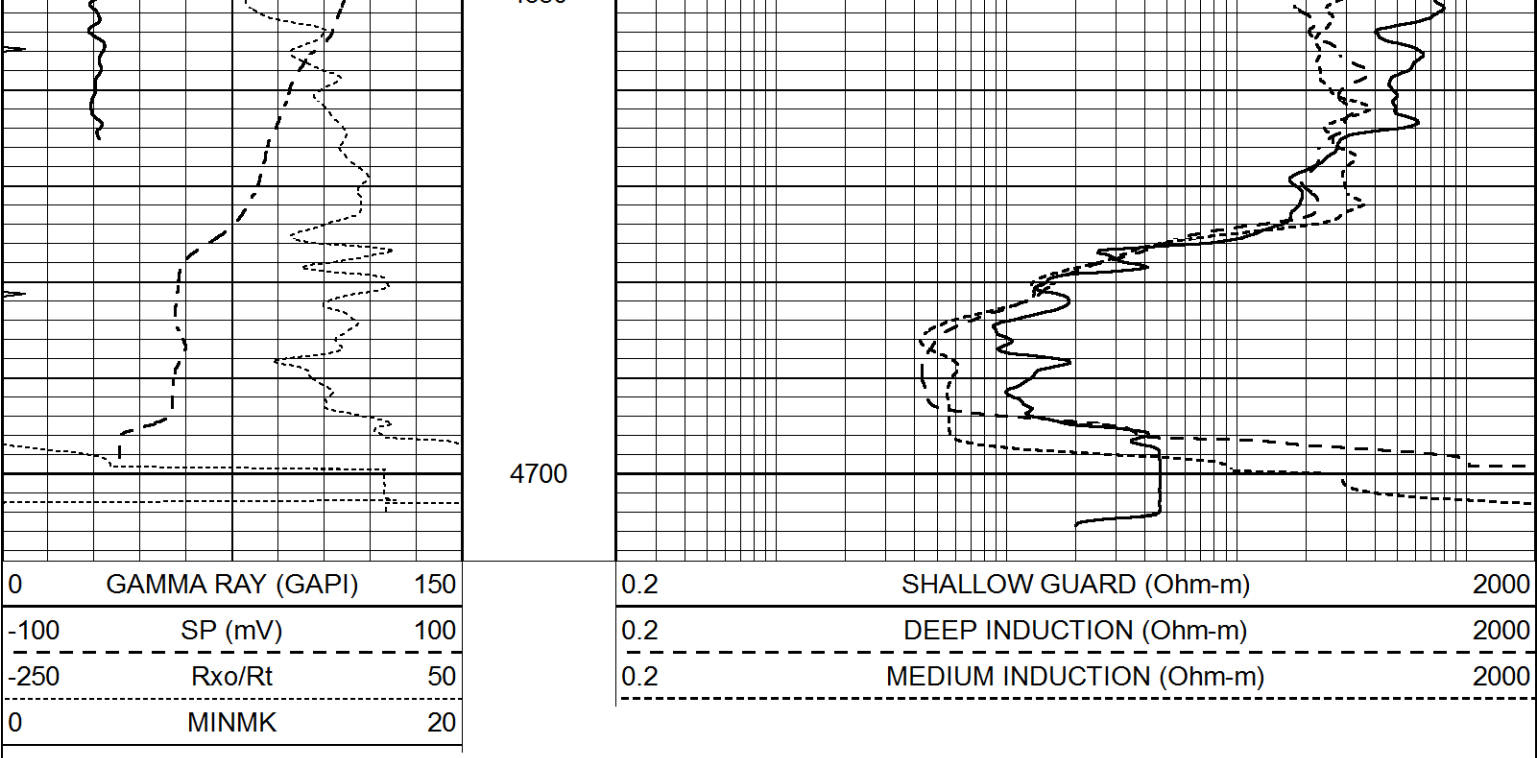
4500

4550

4600

4650





Calibration Report									
Database File	8417pe.db								
Dataset Pathname	pass4.1M								
Dataset Creation	Sat Mar 02 07:39:35 2024								
Dual Induction Calibration Report									
Serial-Model:					PROBE8-DILG				
Surface Cal Performed:					Sat Mar 02 06:40:29 2024				
Downhole Cal Performed:					Mon Aug 14 00:39:25 2023				
After Survey Verification Performed:					Mon Jul 28 11:08:27 2008				
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	660.000	14.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	6.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619	
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739	
Downhole Calibration									
Readings				References			Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000	
LL3		7.500	V		1500.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		-7.200	V		3800.000	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	

LL3	0.000	0.000	mmho-m	0.000	0.000	mmho-m	0.000	0.000
Medium		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 Tue Aug 02 11:29:35 2022				
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1154.2	10019.5	3137.9	2795.6	cps
Window 2	1054.4	8597.6	2733.4	2469.5	cps
Window 3	902.3	5241.4	1832.1	1719.3	cps
Window 4	251.9	261.1	255.8	252.9	cps
Long Space	0.0	7543.2	1679.0	1415.0	cps
Short Space	4.4	2049.3	1321.7	1116.8	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio	: 0.562
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept	: -17.2

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
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
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Serial Number: 070808PMC
Tool Model: NABORS

PRE-SURVEY VERIFICATION			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

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:		Wed Dec 20 03:59:02 2023		
Calibrator Value:		1.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		1.0	cps	
Sensitivity:		0.3000	GAPI/cps	