



DUAL INDUCTION LOG

Company		NEC OPERATING - KANSAS, LLC.	
Well	MARIE ANTOINETTE #A-1		
Field	GARFIELD		
County	PAWNEE	State	KANSAS
Location:	API # : 15-145-21893-0000		Other Services CDL/CNL/PE MEL
SEC 7 TWP 23S RGE 17W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2069
Log Measured From	KELLY BUSHING 8' A.G.L		
Drilling Measured From	KELLY BUSHING		
Date	2/15/24		
Run Number	ONE		
Depth Driller	4625		
Depth Logger	4618		
Bottom Logged Interval	4616		
Top Log Interval	00		
Casing Driller	8.675@809		
Casing Logger	809		
Bit Size	7.785		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,100 PPM	
Density / Viscosity	9.2/61		
pH / Fluid Loss	11.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@72F		
Rmf @ Meas. Temp	.450@72F		
Rmc @ Meas. Temp	.648@72F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.354@122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:00 P.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.

15-145-21893-0000

Comments

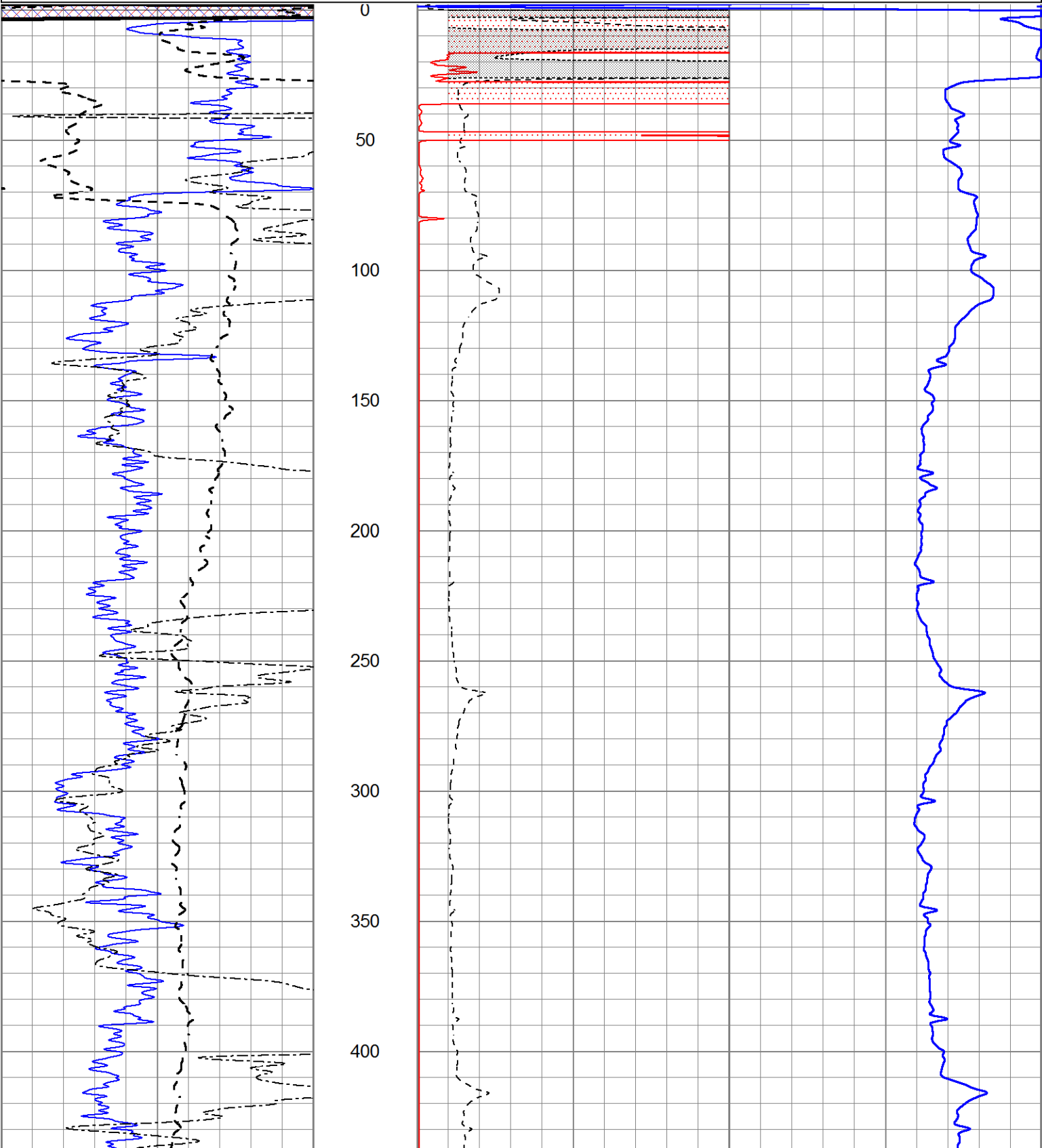
THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS
GARFIELD, KS. 1 1/2S., E. INTO

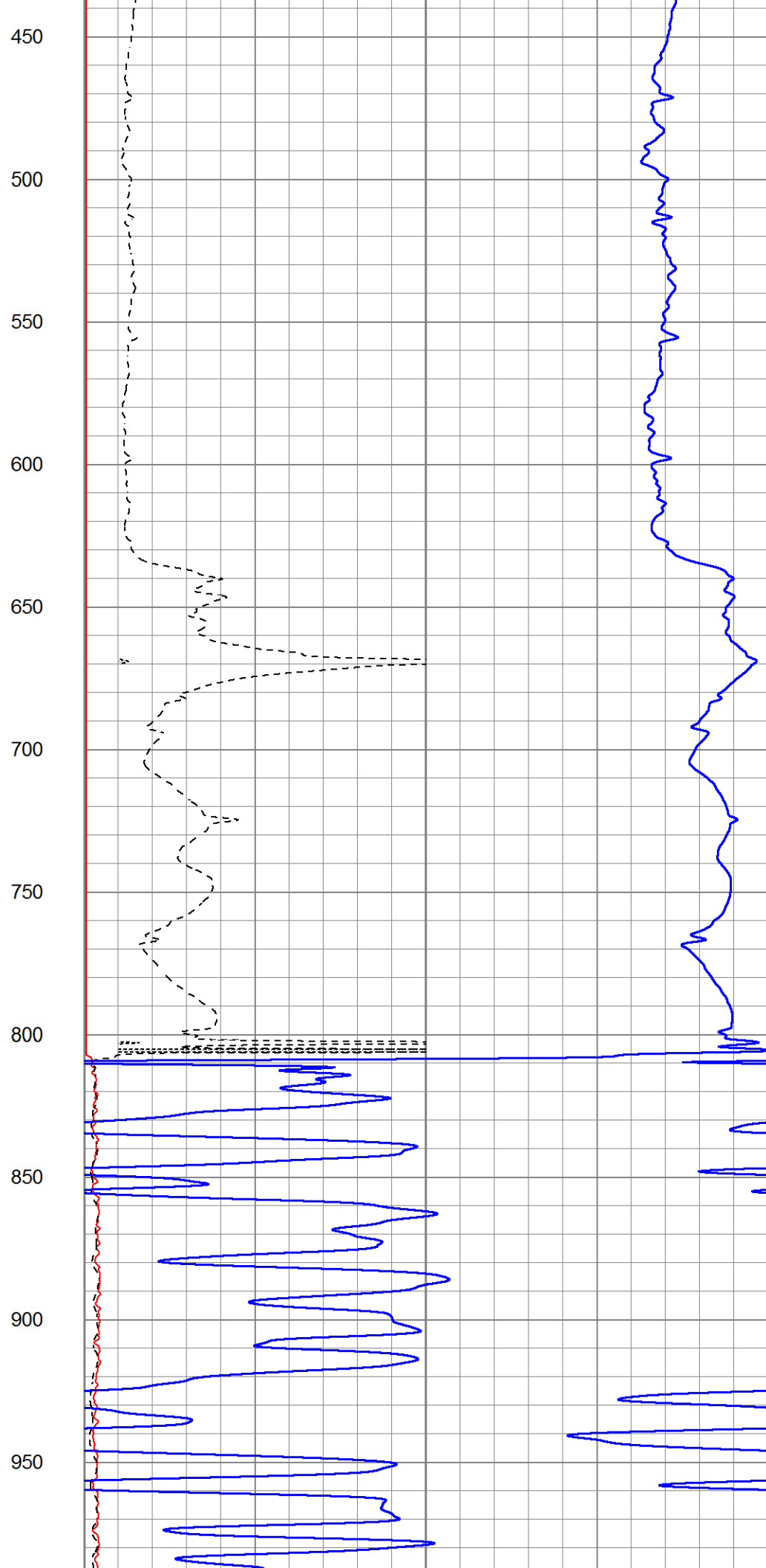
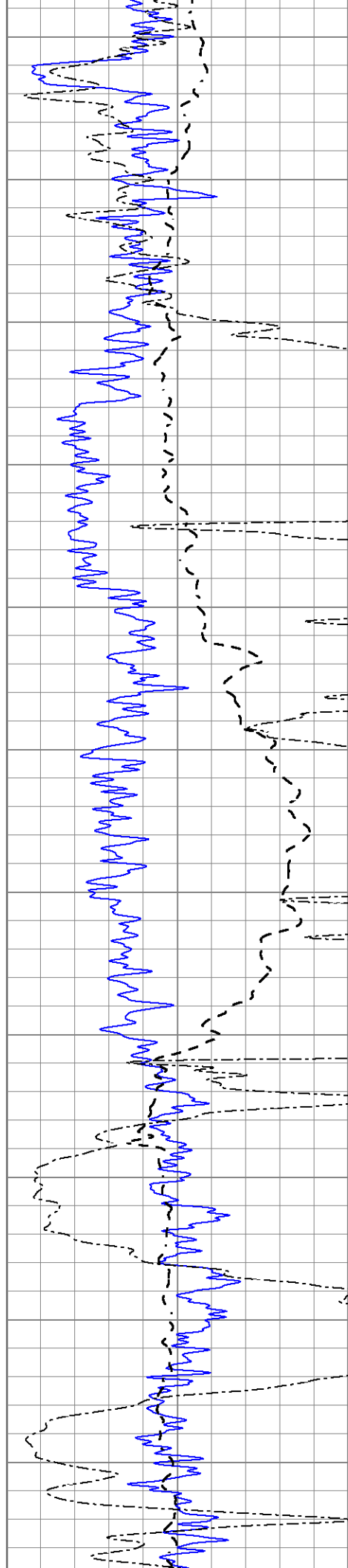


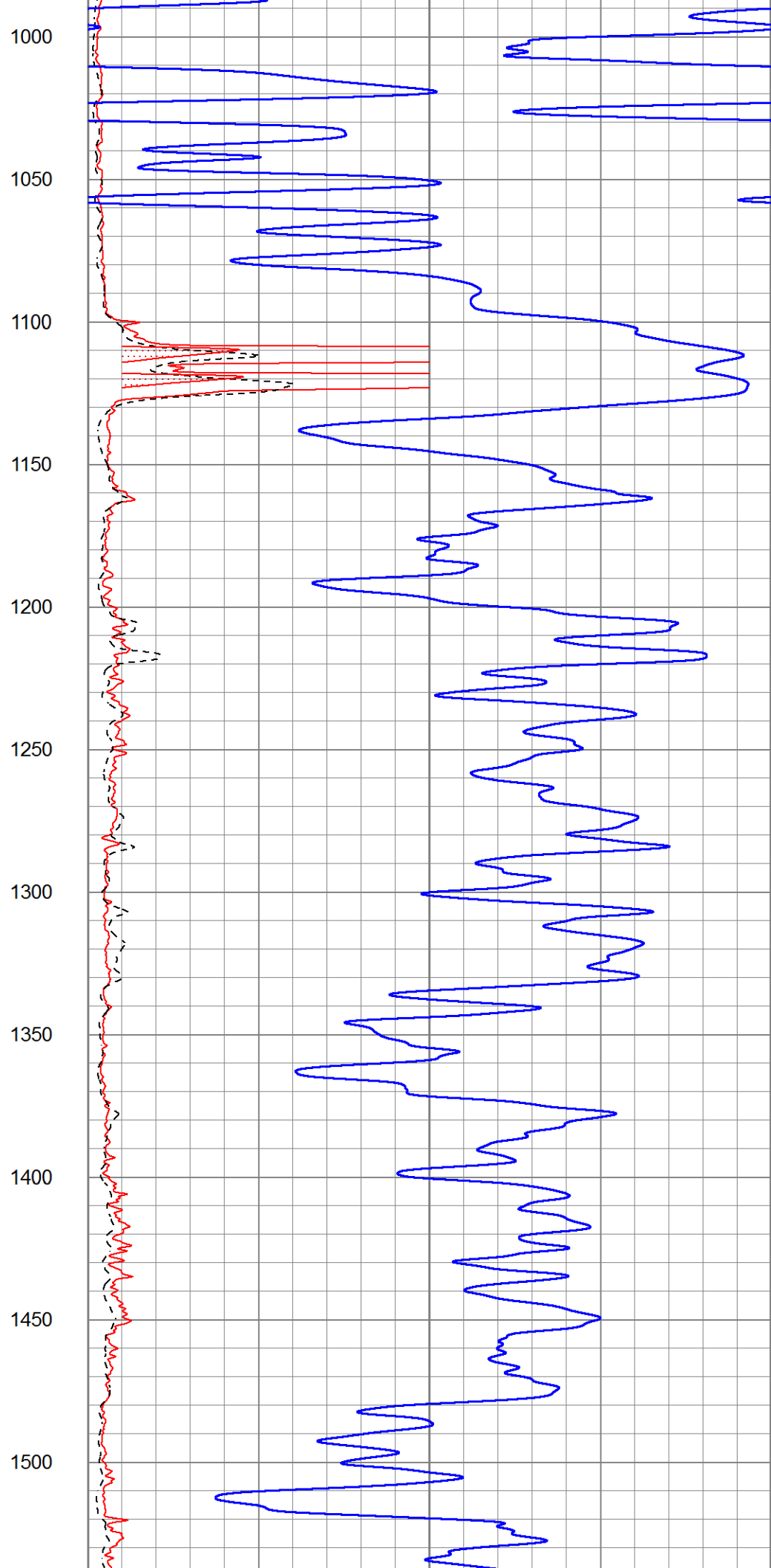
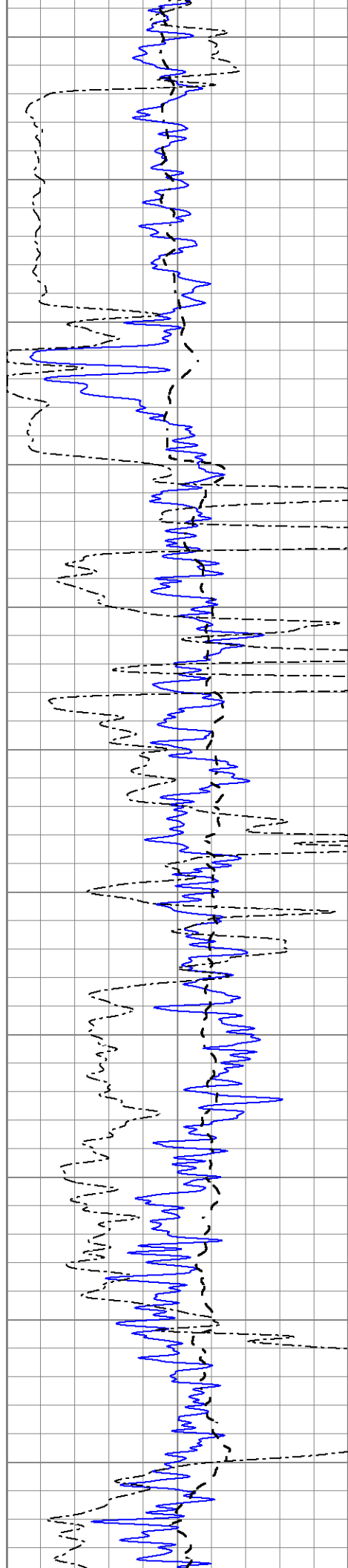
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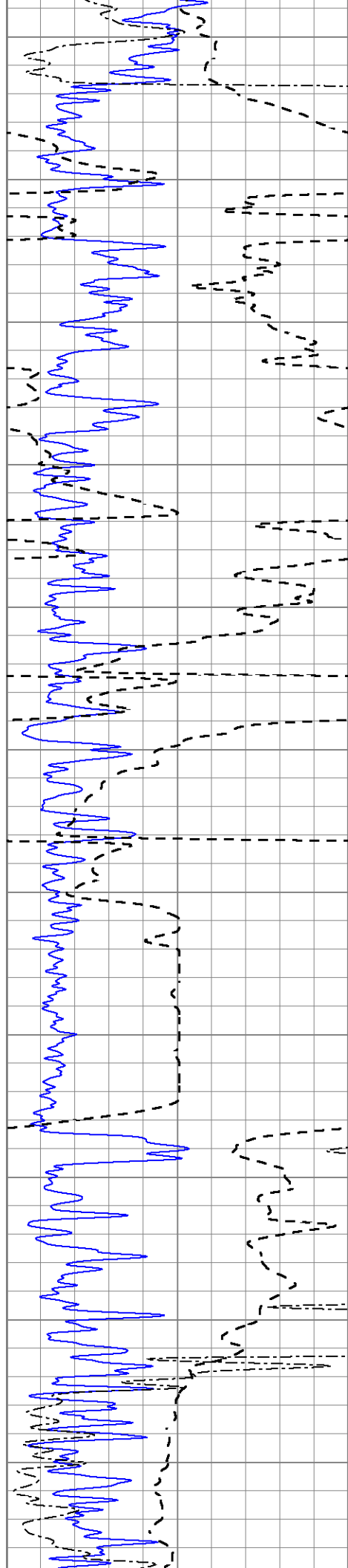
Database File	8411pe.db
Dataset Pathname	pass5.1M
Presentation Format	_dil2
Dataset Creation	Fri Feb 16 01:12:09 2024
Charted by	Depth in Feet scaled 1:600

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









1550

1600

1650

1700

1750

1800

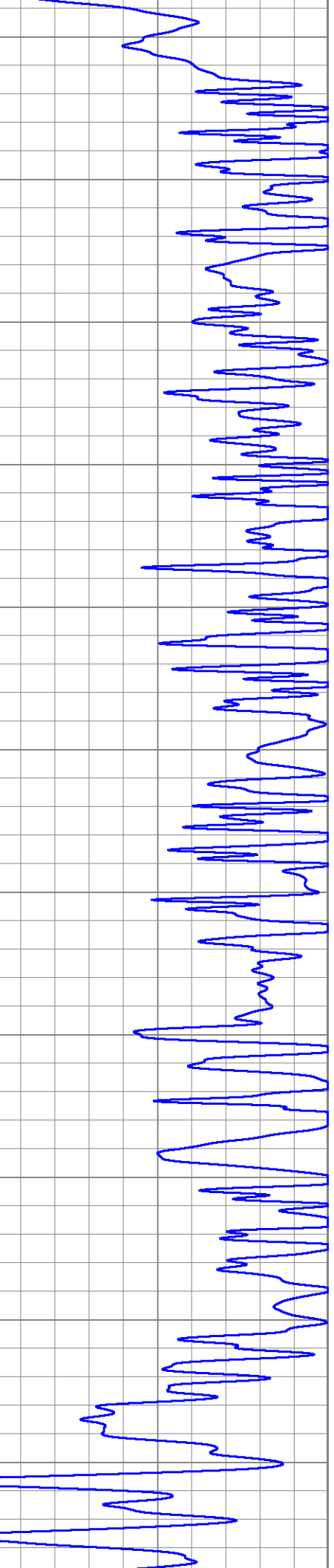
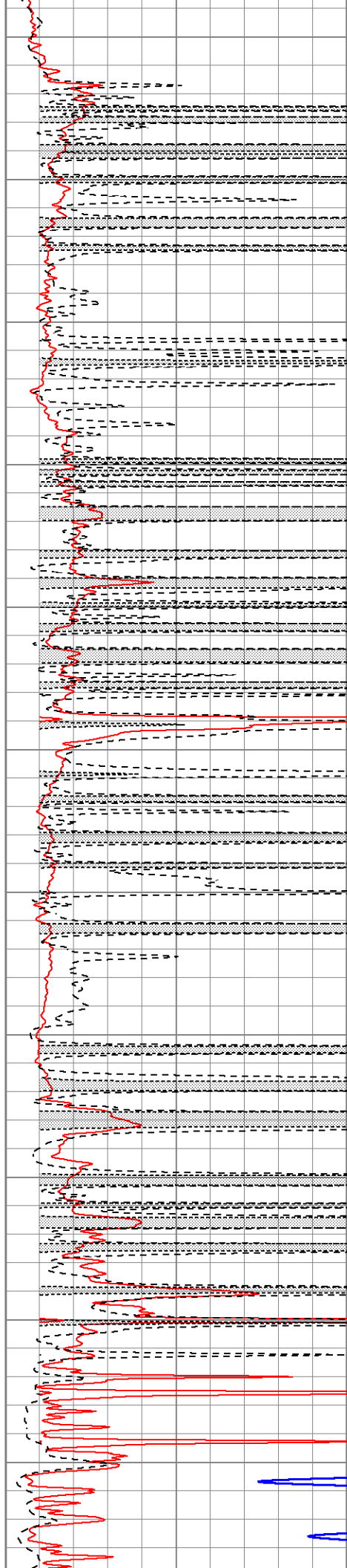
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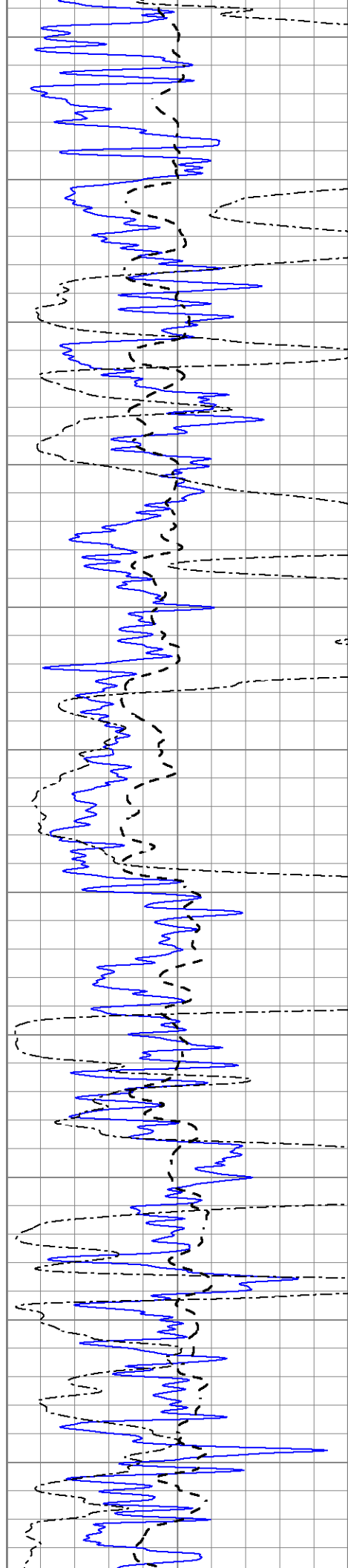
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1950

2000

2050





2100

2150

2200

2250

2300

2350

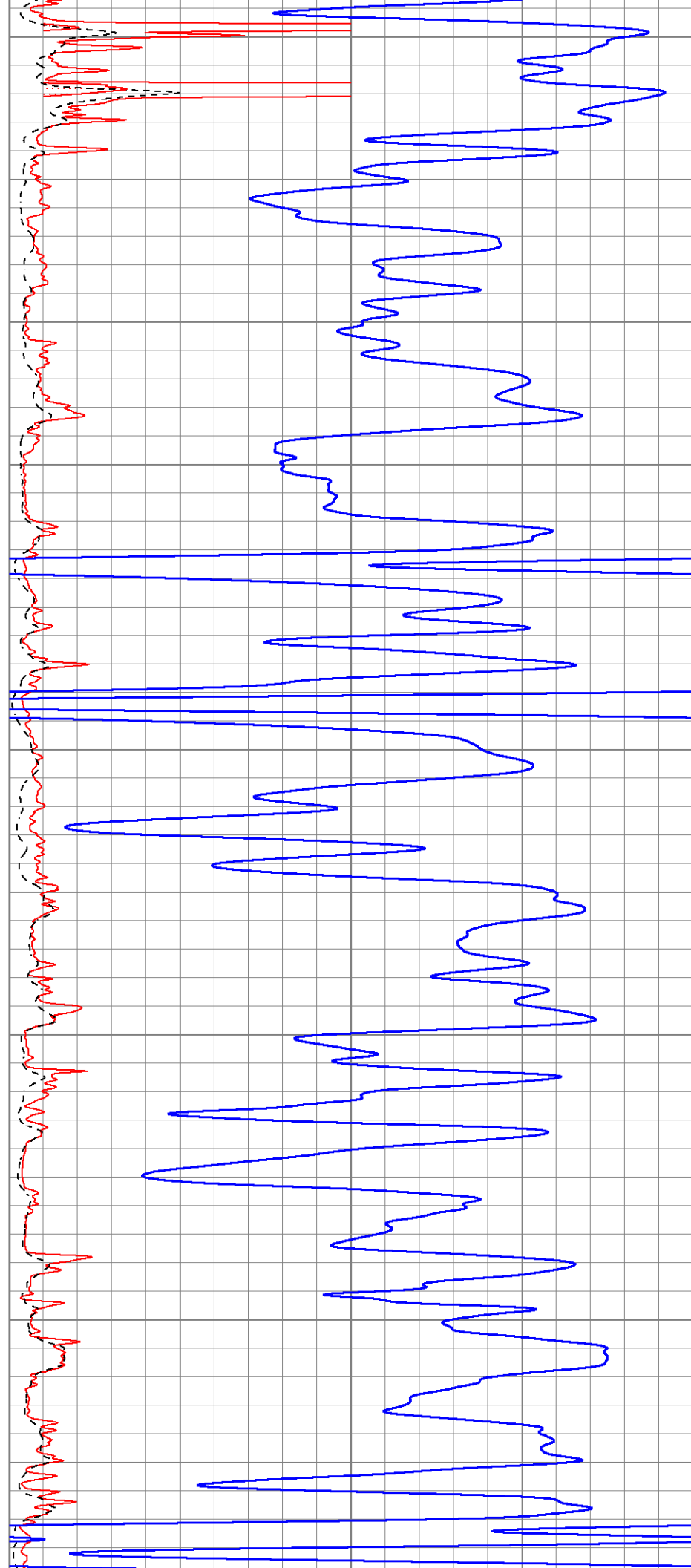
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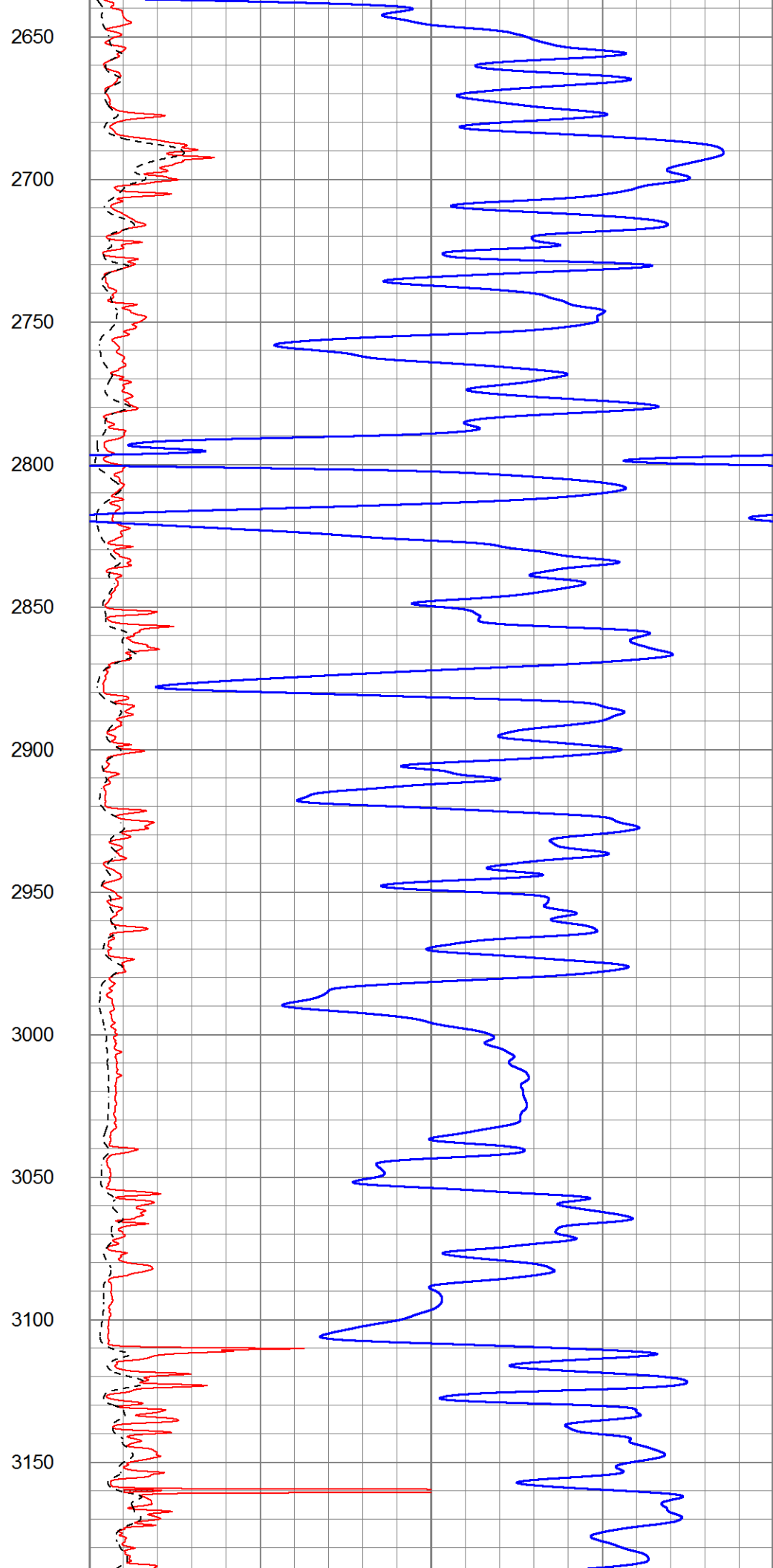
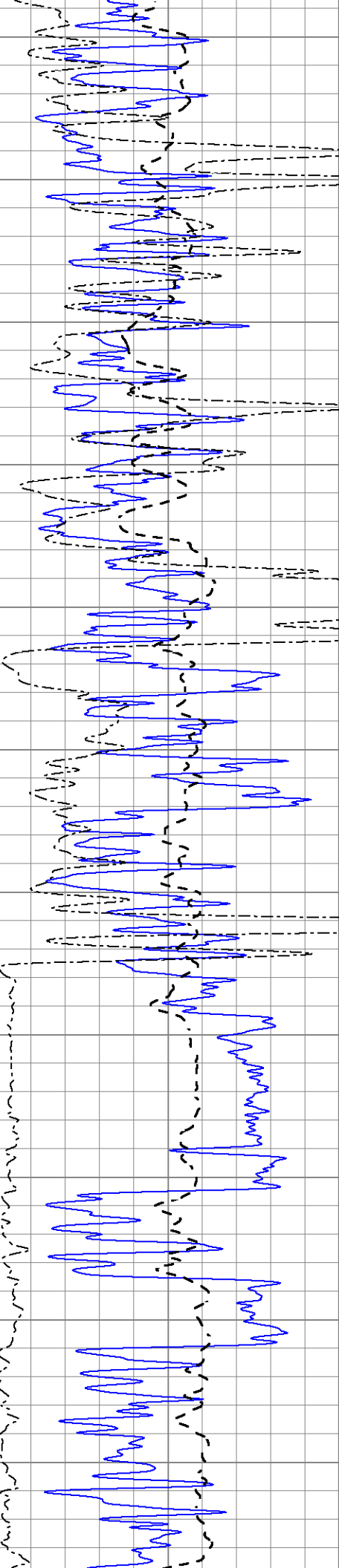
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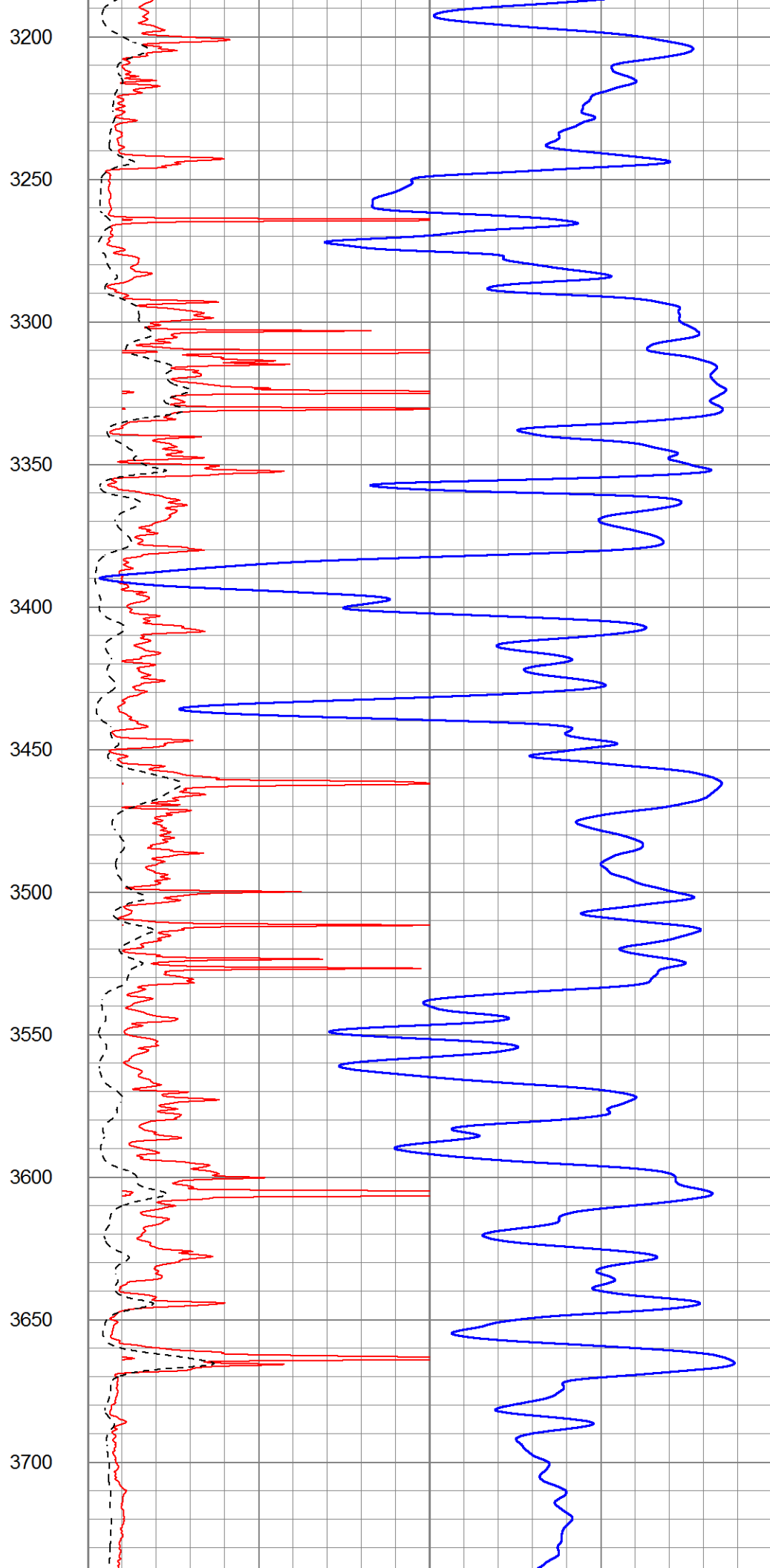
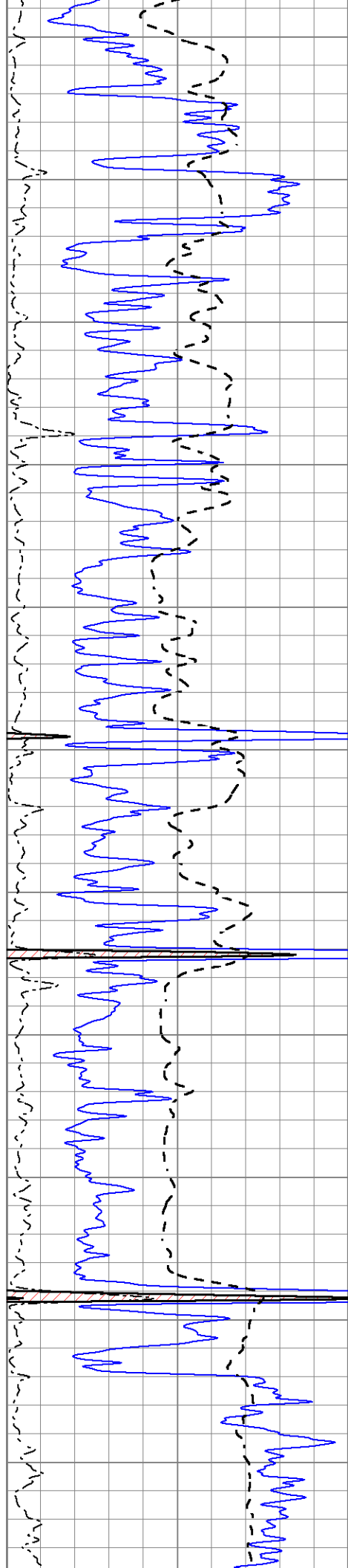
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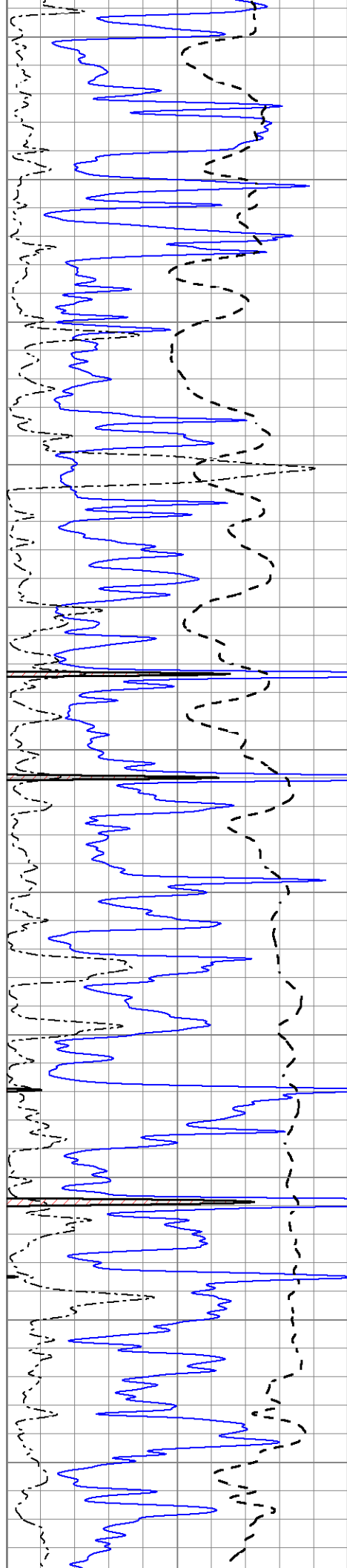
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2600









3750

3800

3850

3900

3950

4000

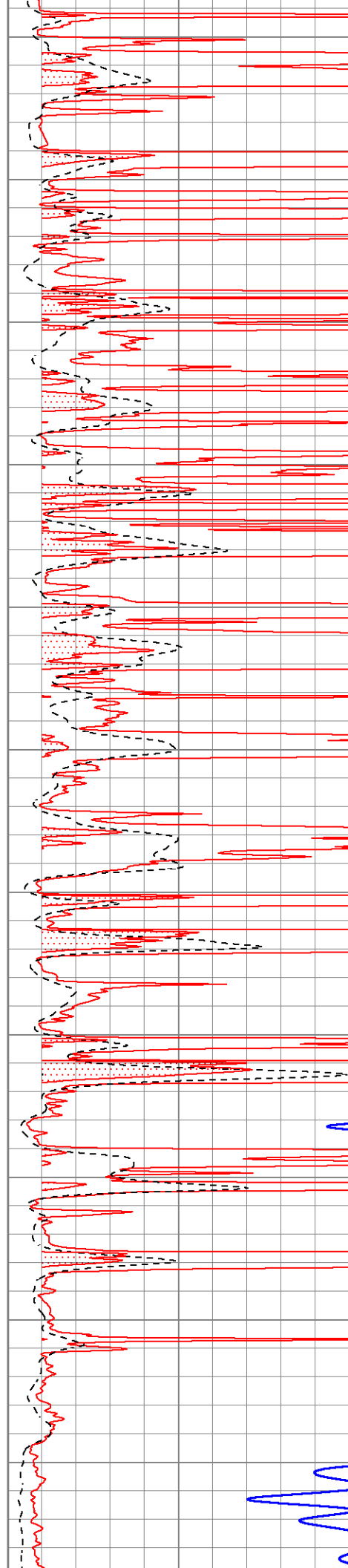
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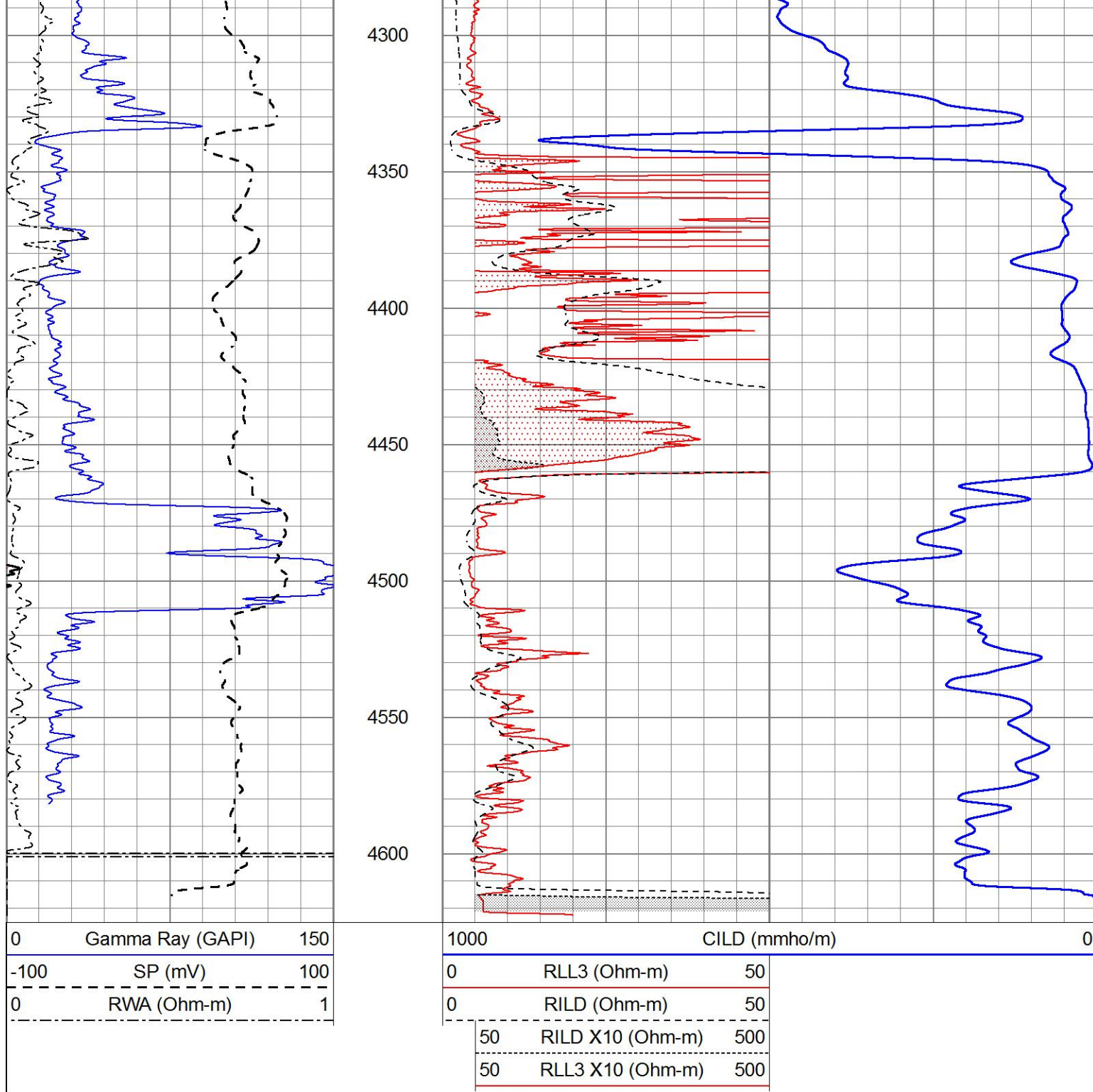
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4150

4200

4250

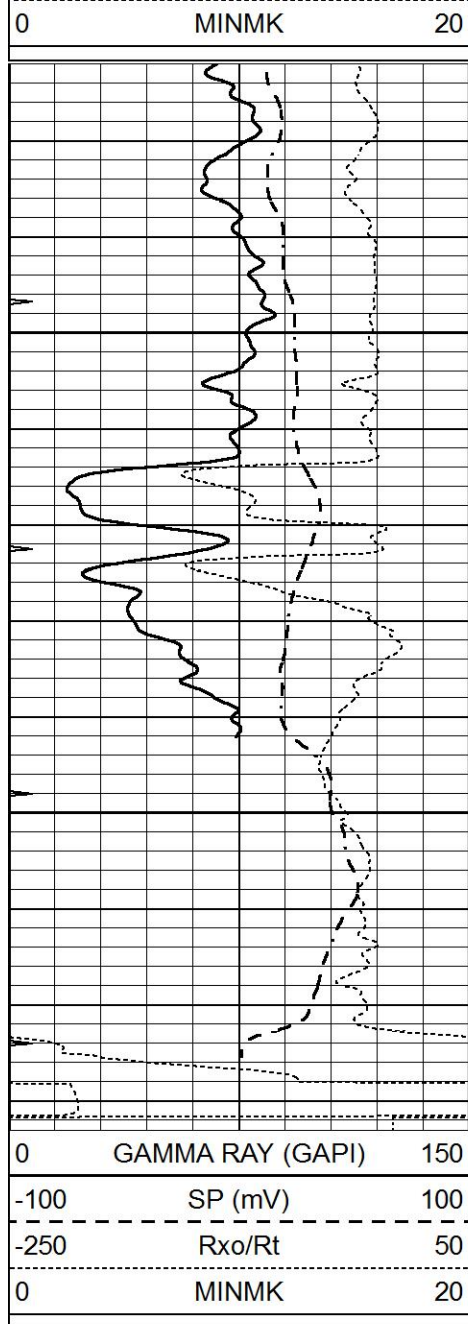




ANHYDRITE REPEAT

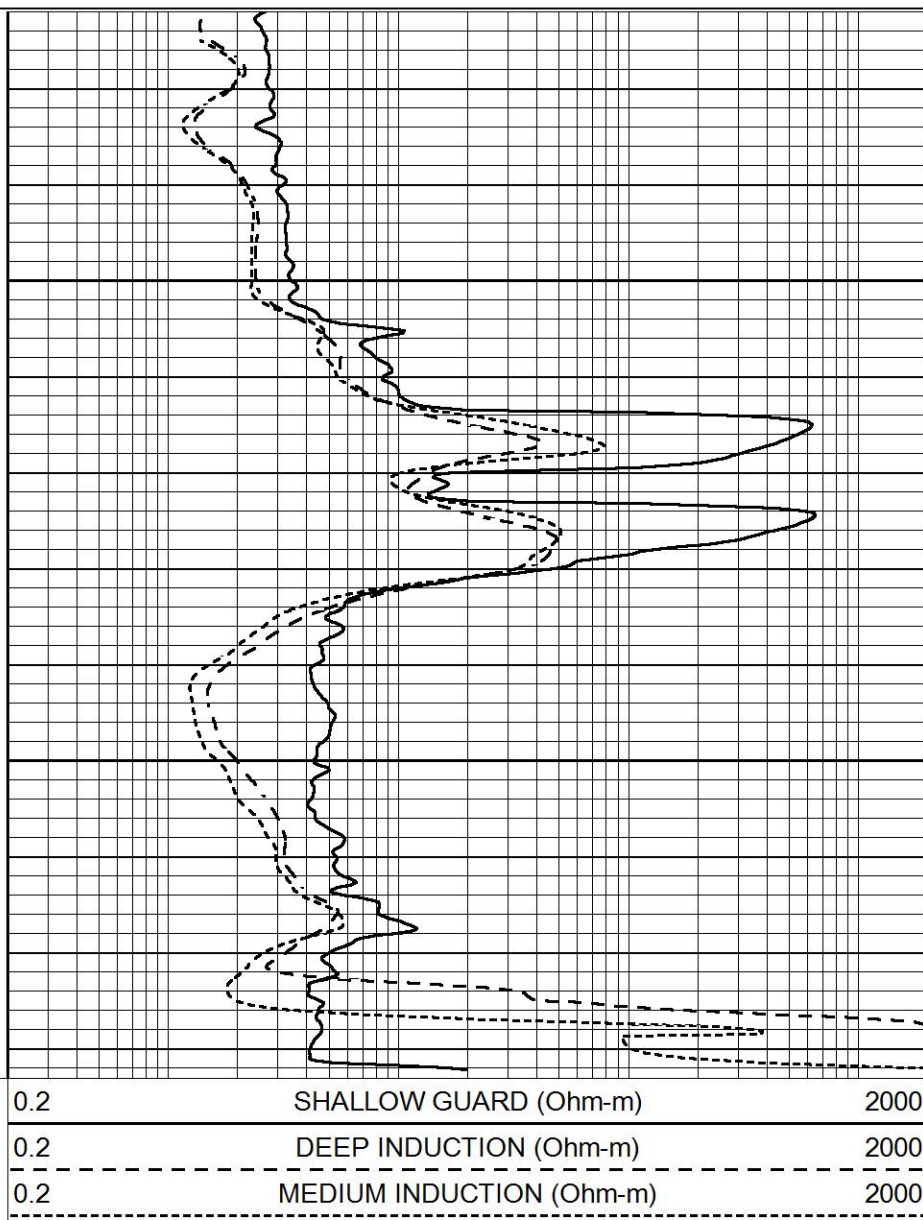
Database File 8411pe.db
Dataset Pathname pass2.1A
Presentation Format _dil
Dataset Creation Fri Feb 16 00:16:54 2024
Charted by Depth in Feet scaled 1:240

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



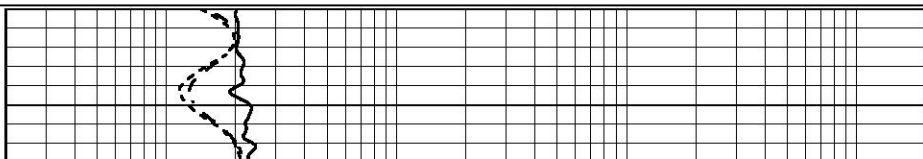
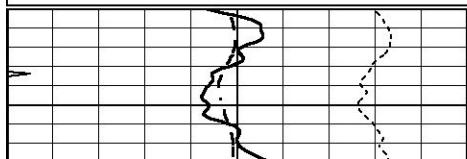
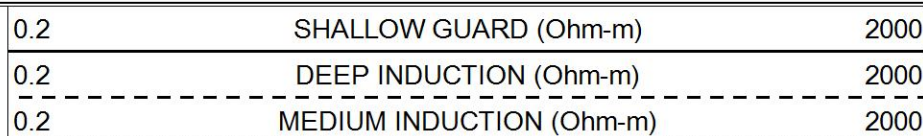
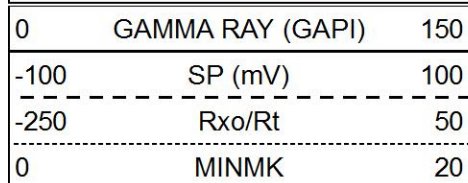
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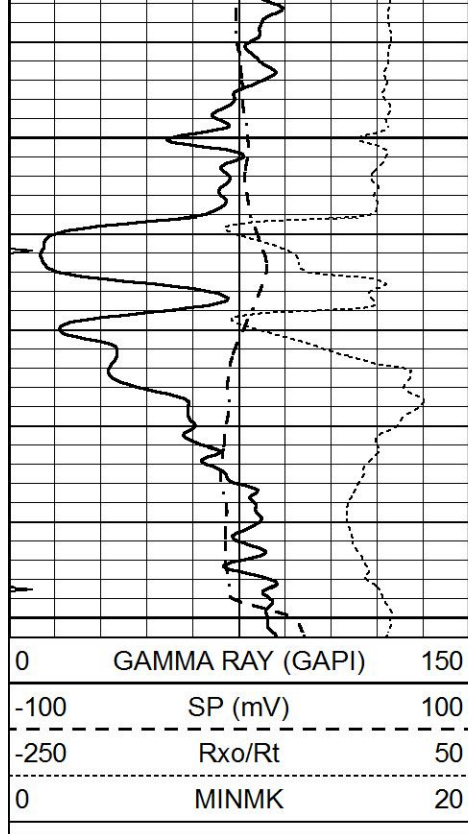
1150



ANHYDRITE MAIN PASS

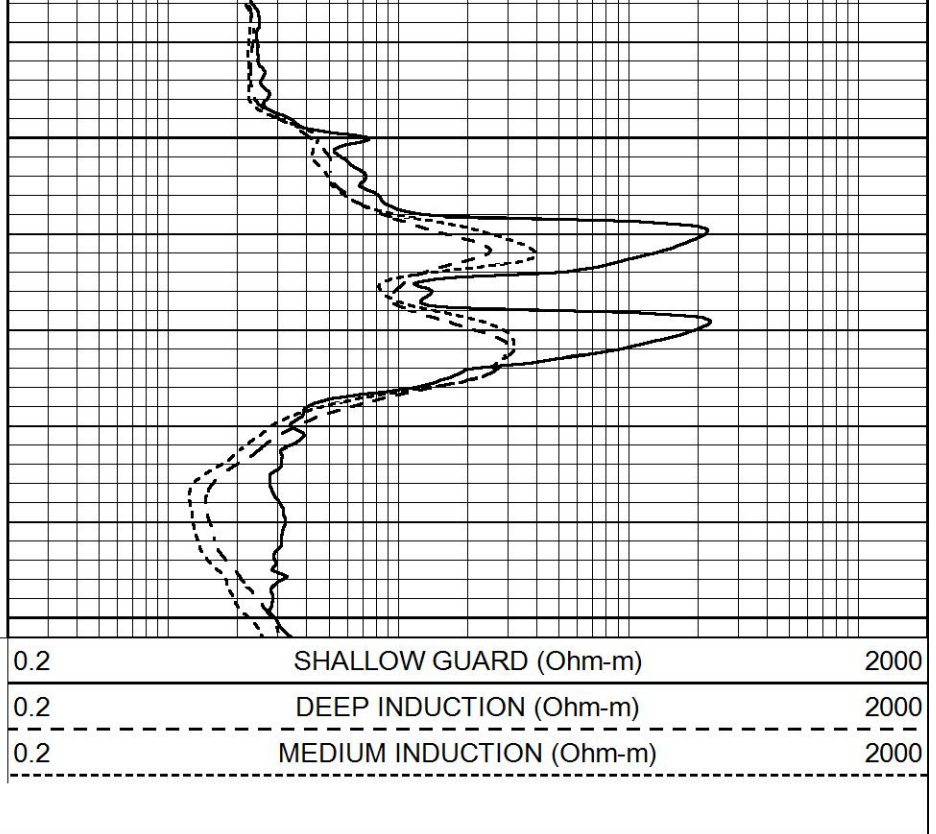
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Presentation Format _dil
Dataset Creation Fri Feb 16 01:23:42 2024
Charted by Depth in Feet scaled 1:240





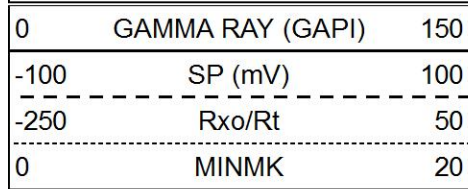
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1150



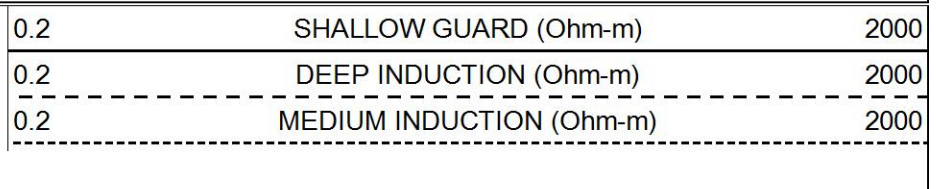
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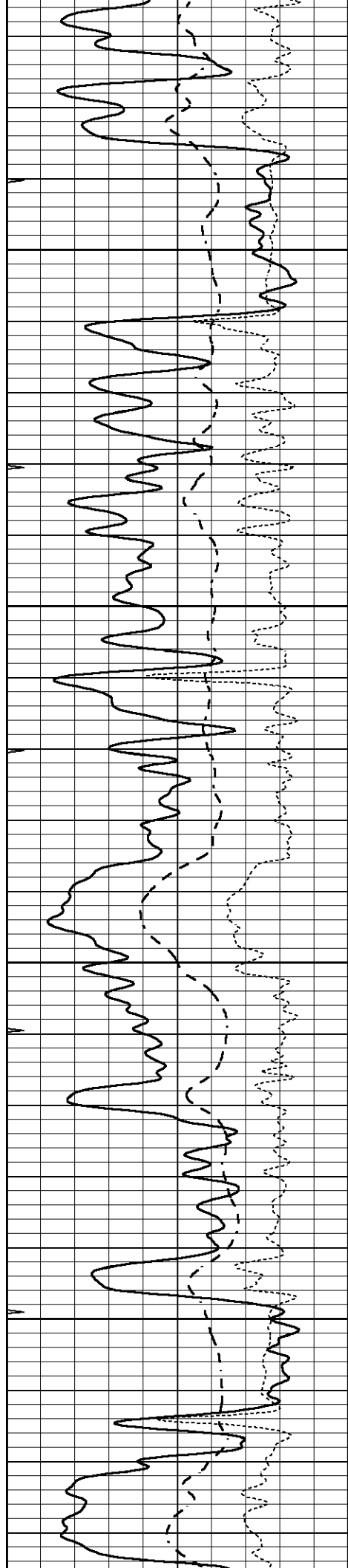
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 Dataset Pathname pass5.1M
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 Charted by Depth in Feet scaled 1:240



3000

3050



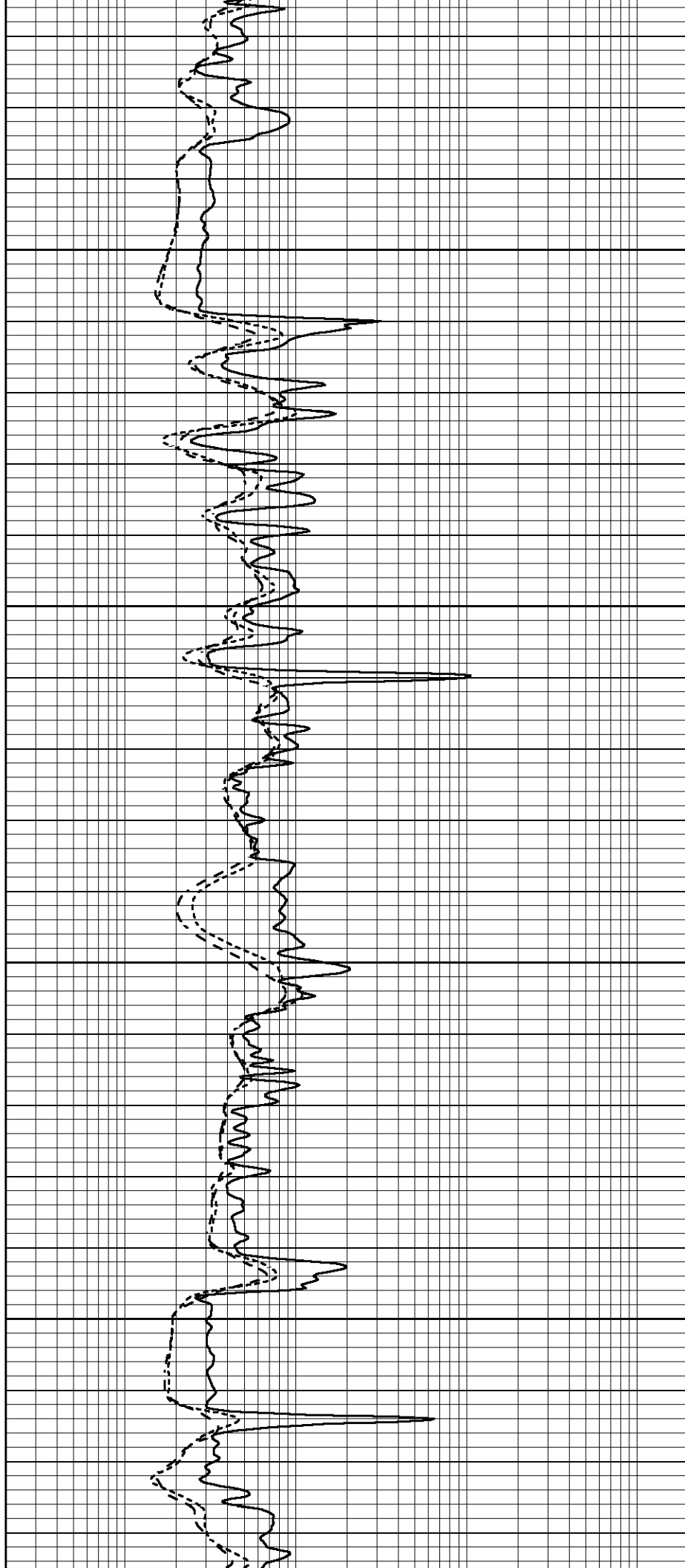


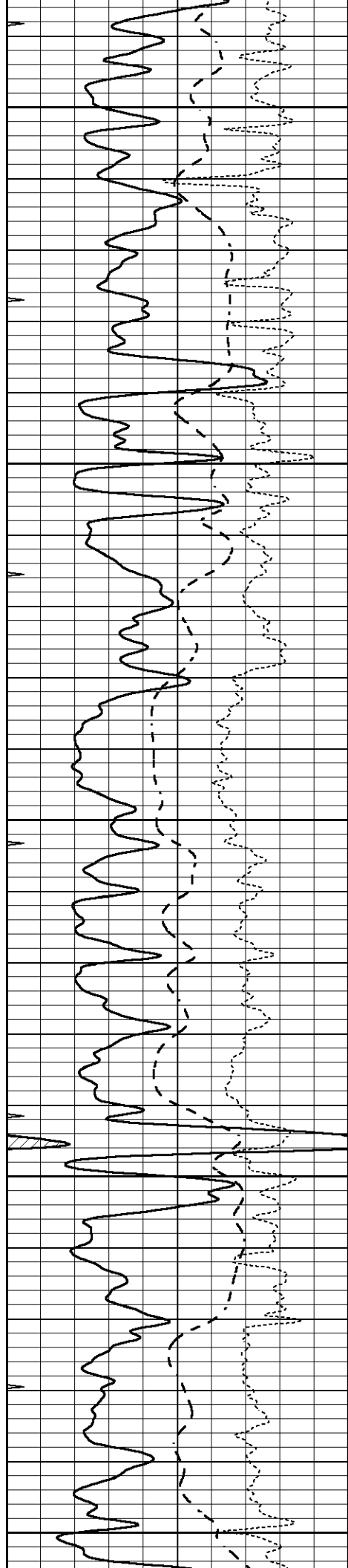
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3150

3200

3250





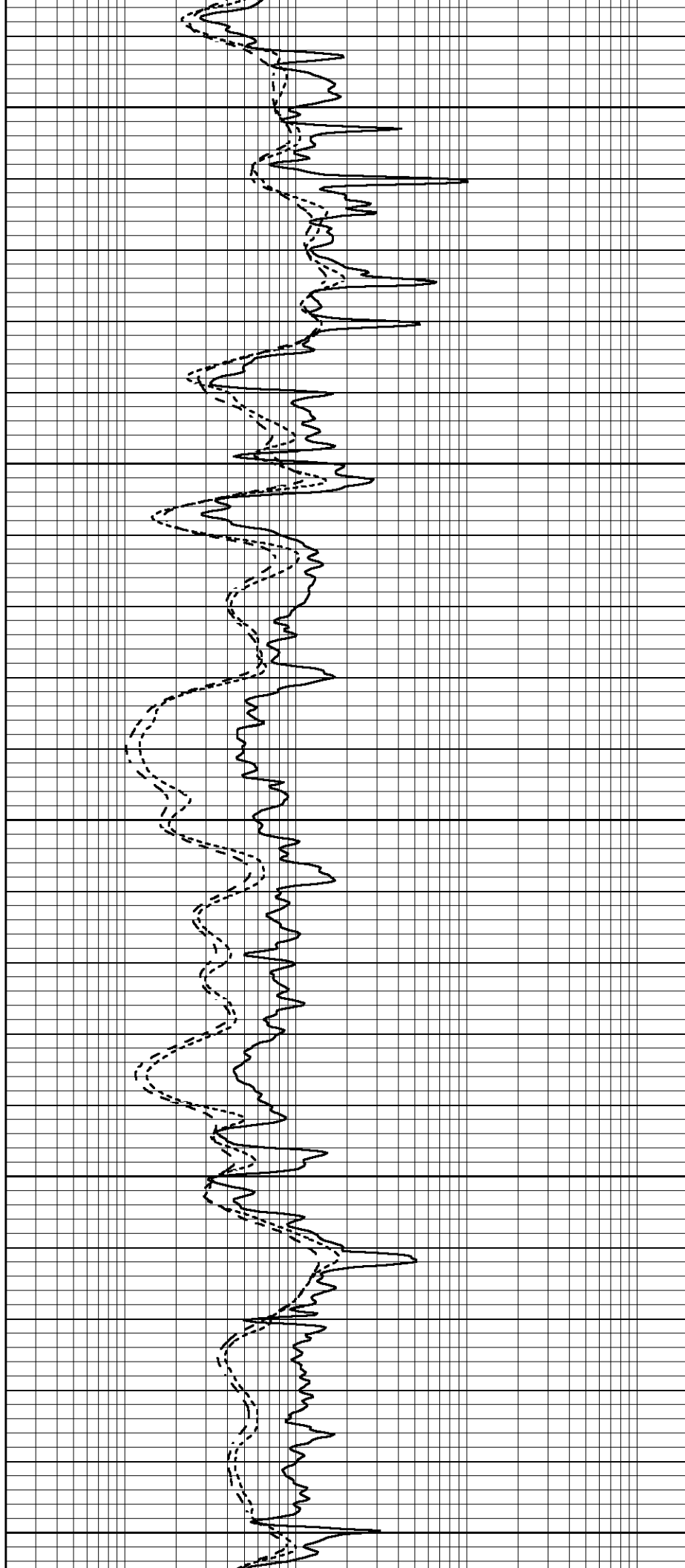
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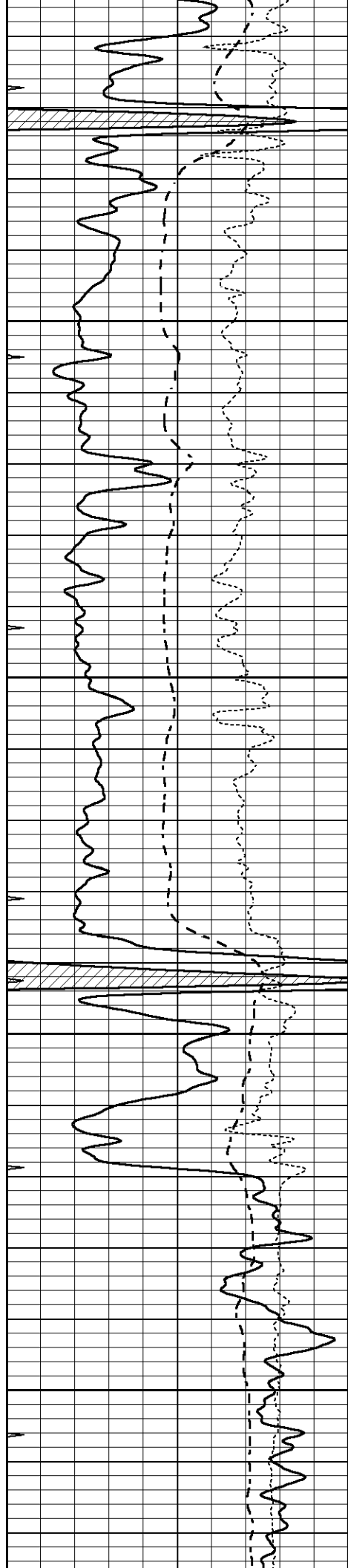
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3400

3450

3500



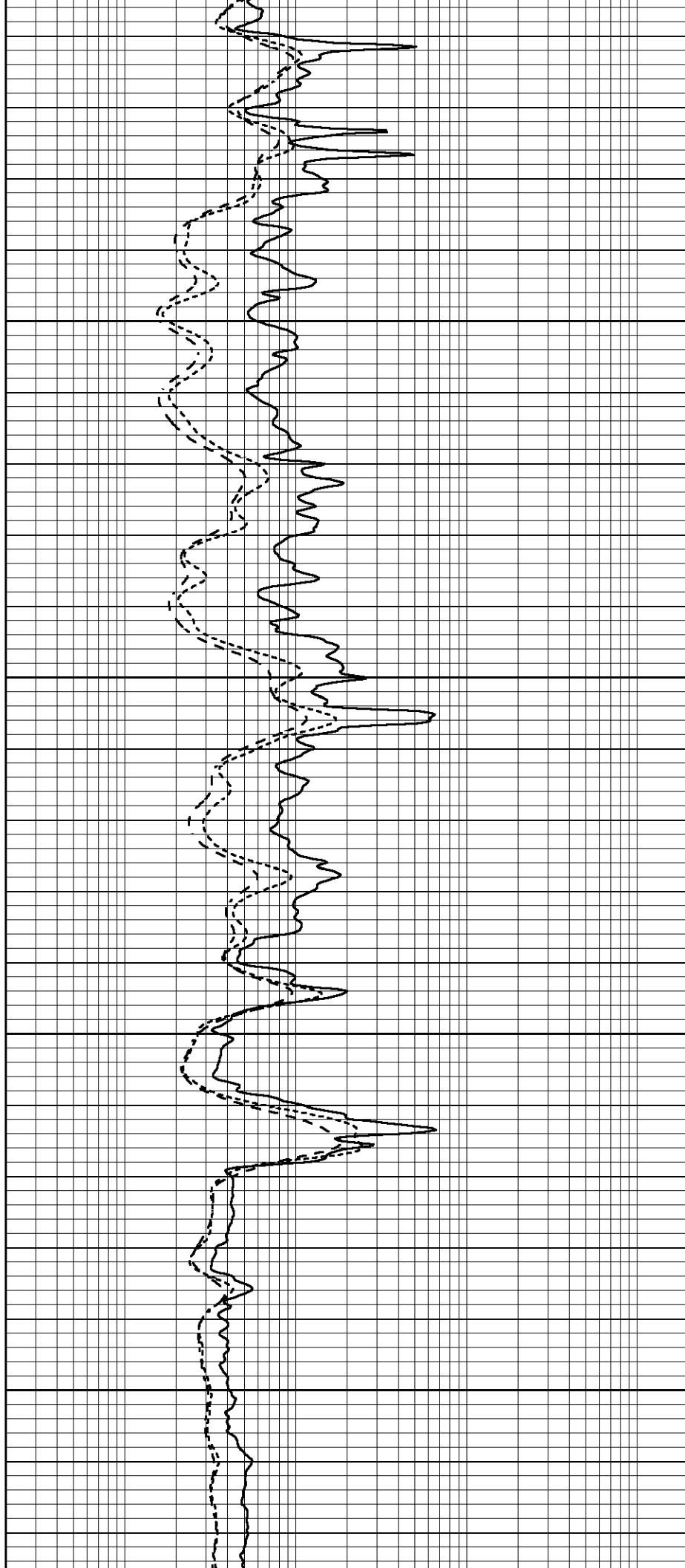


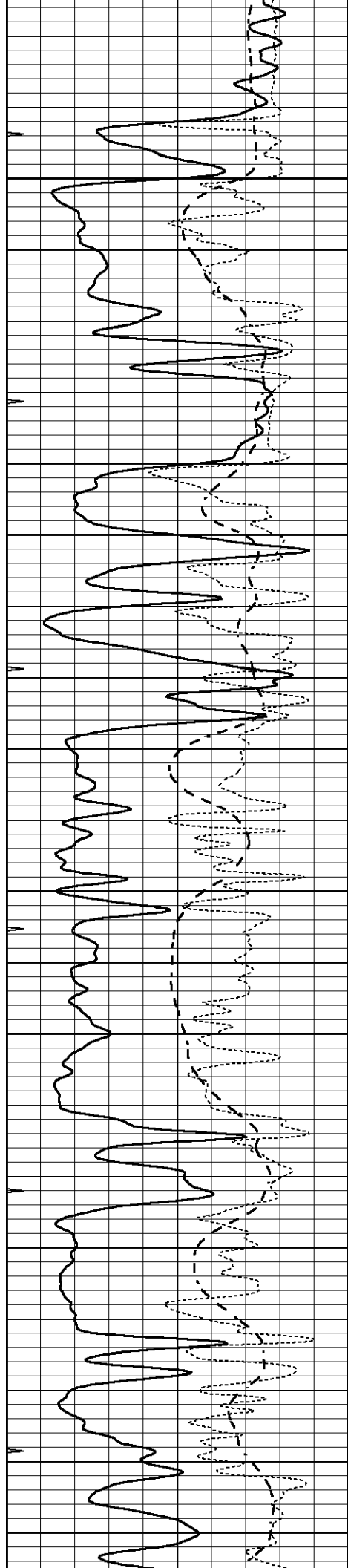
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3700



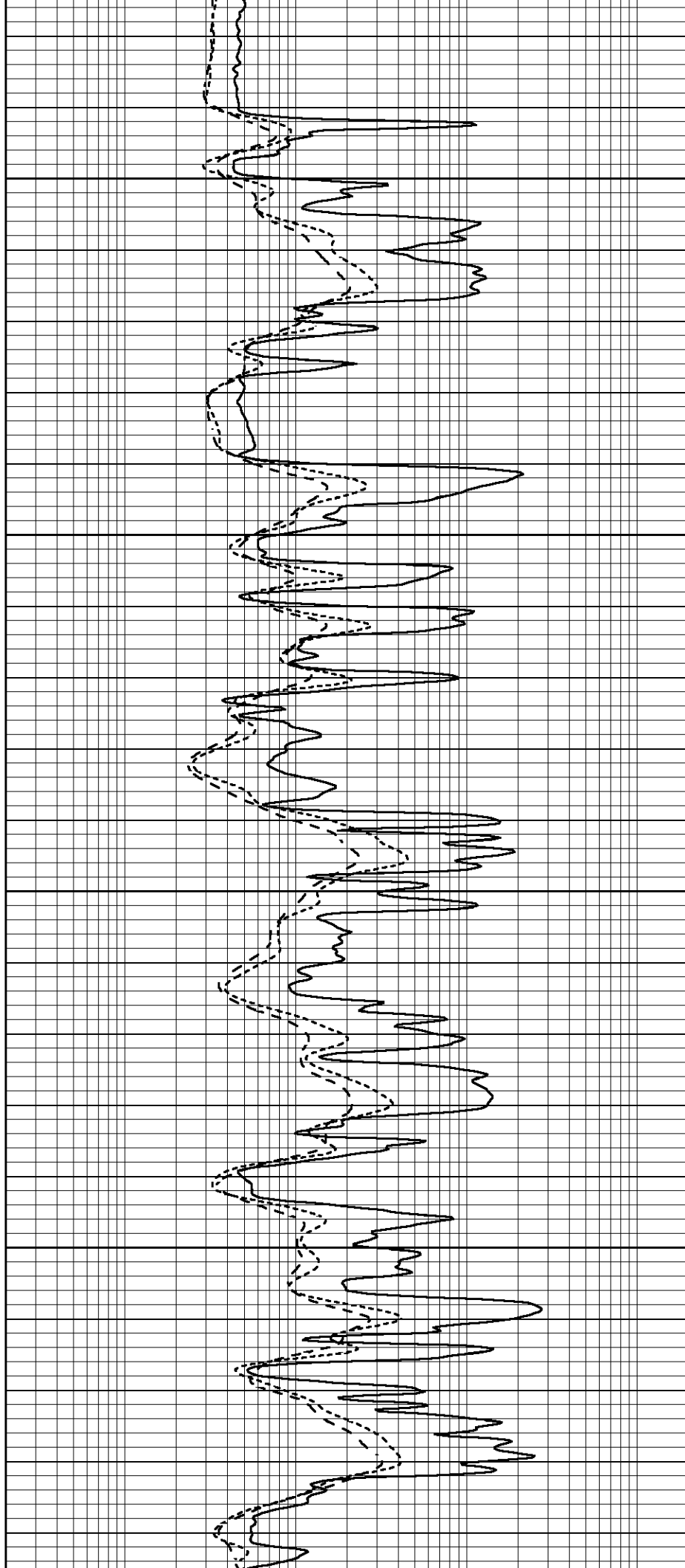


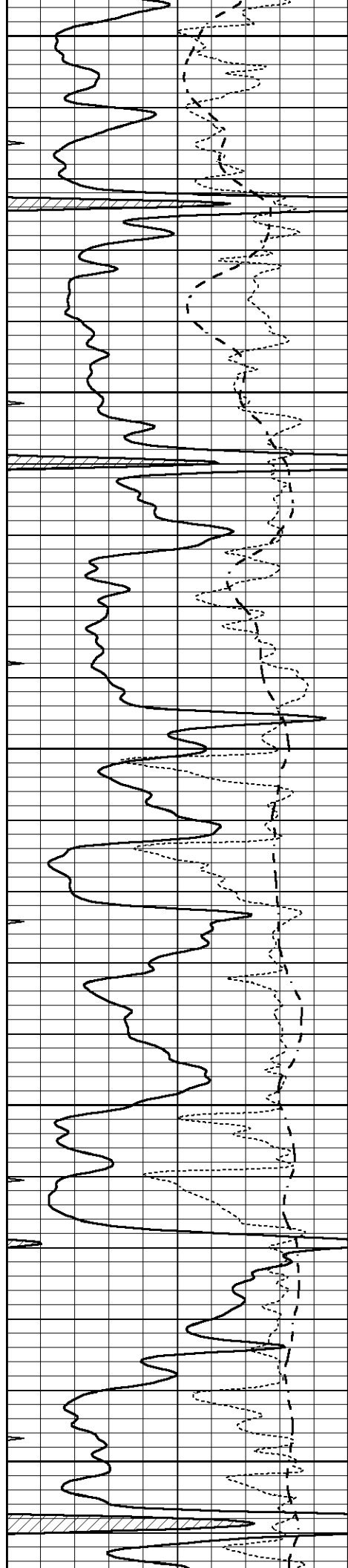
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3900





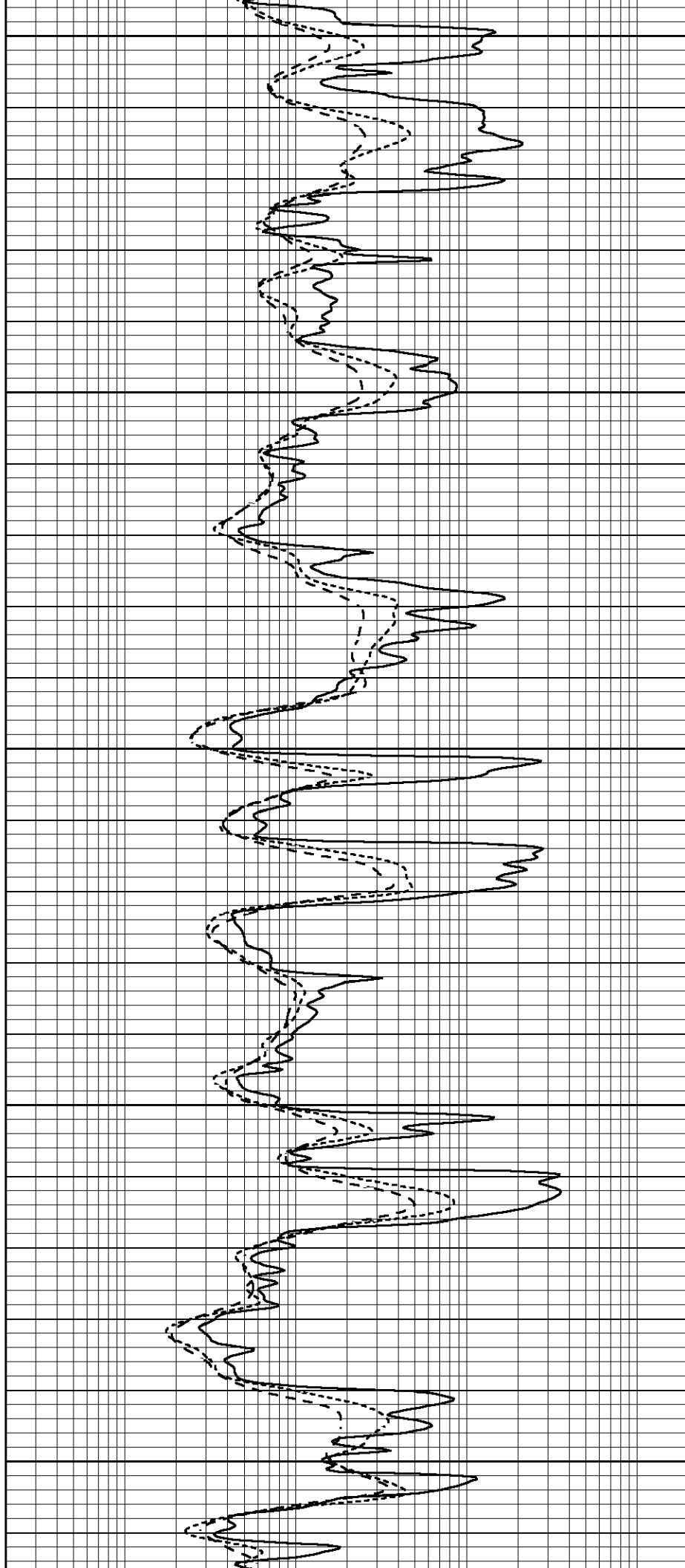
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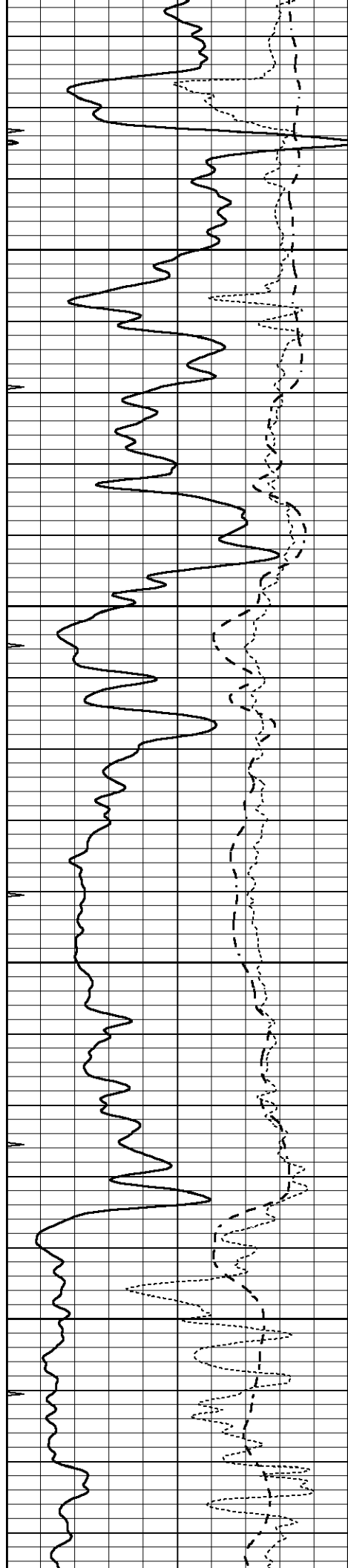
4000

4050

4100

4150



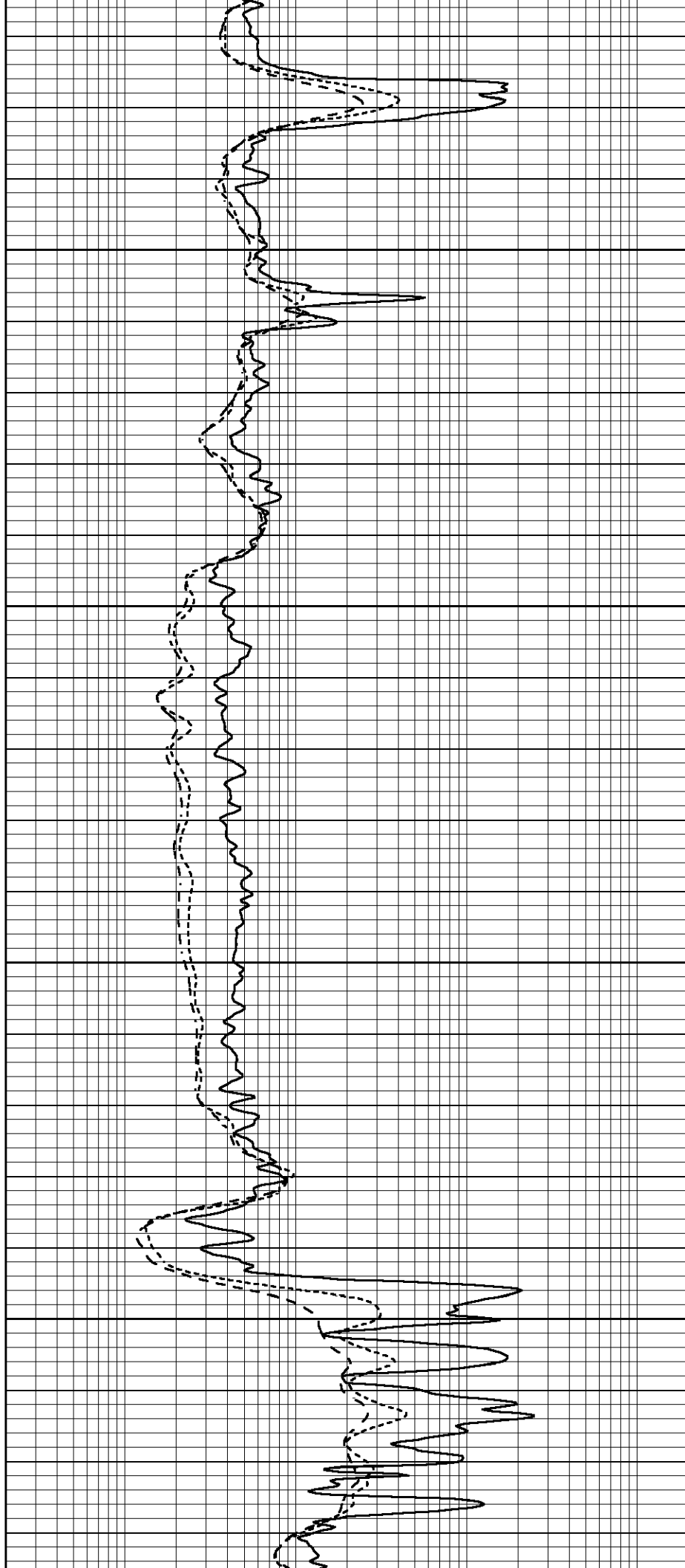


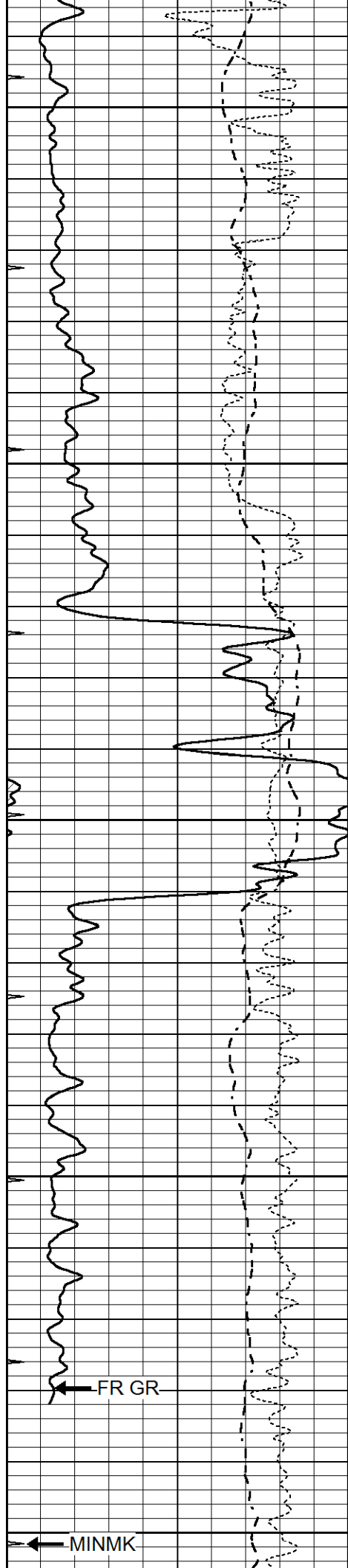
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4250

4300

4350





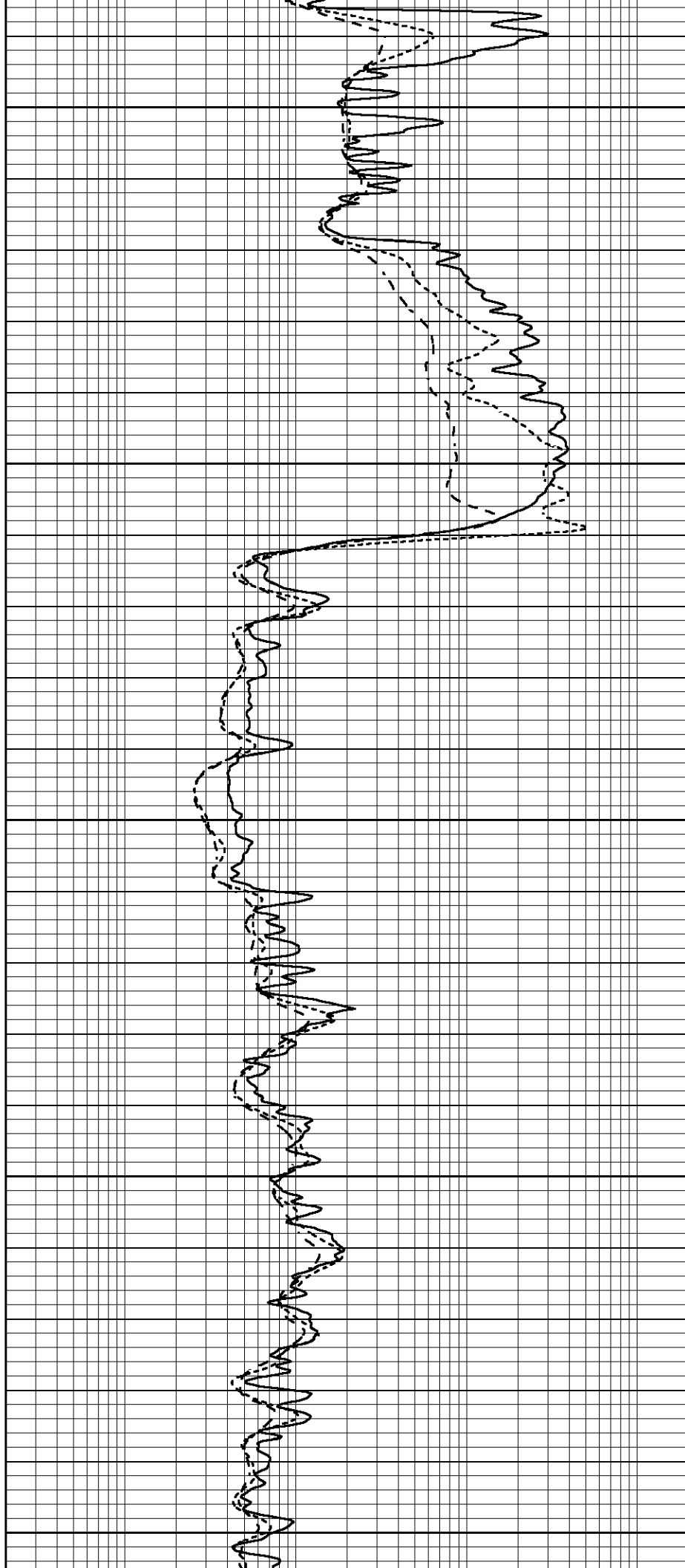
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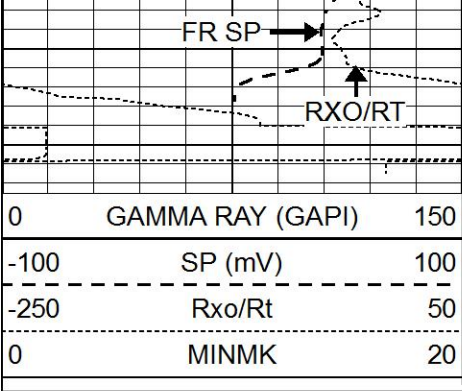
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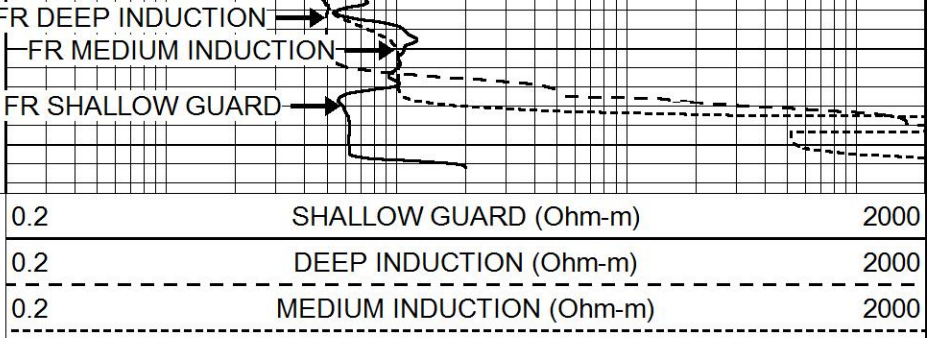
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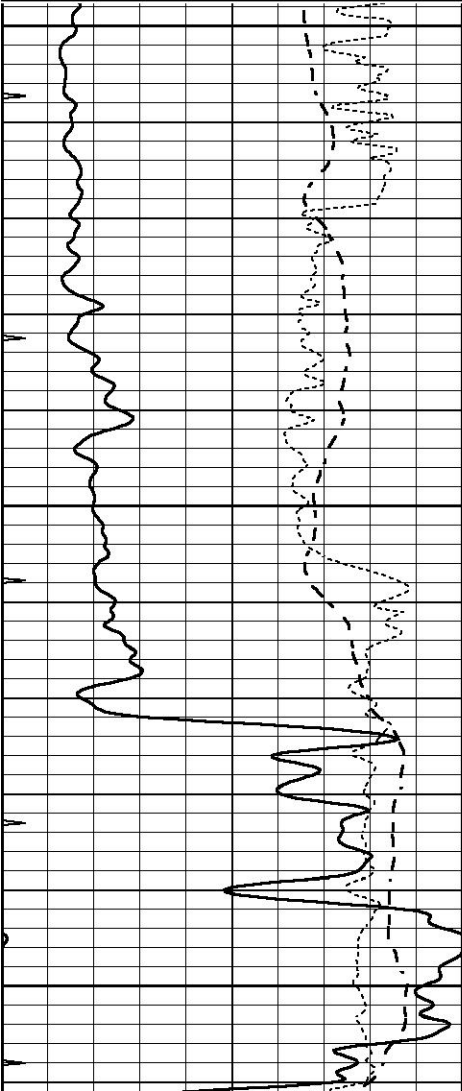
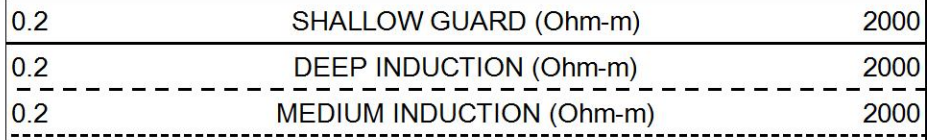
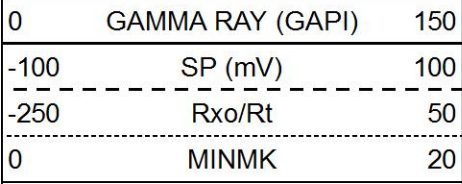


LTD 4618



REPEAT SECTION

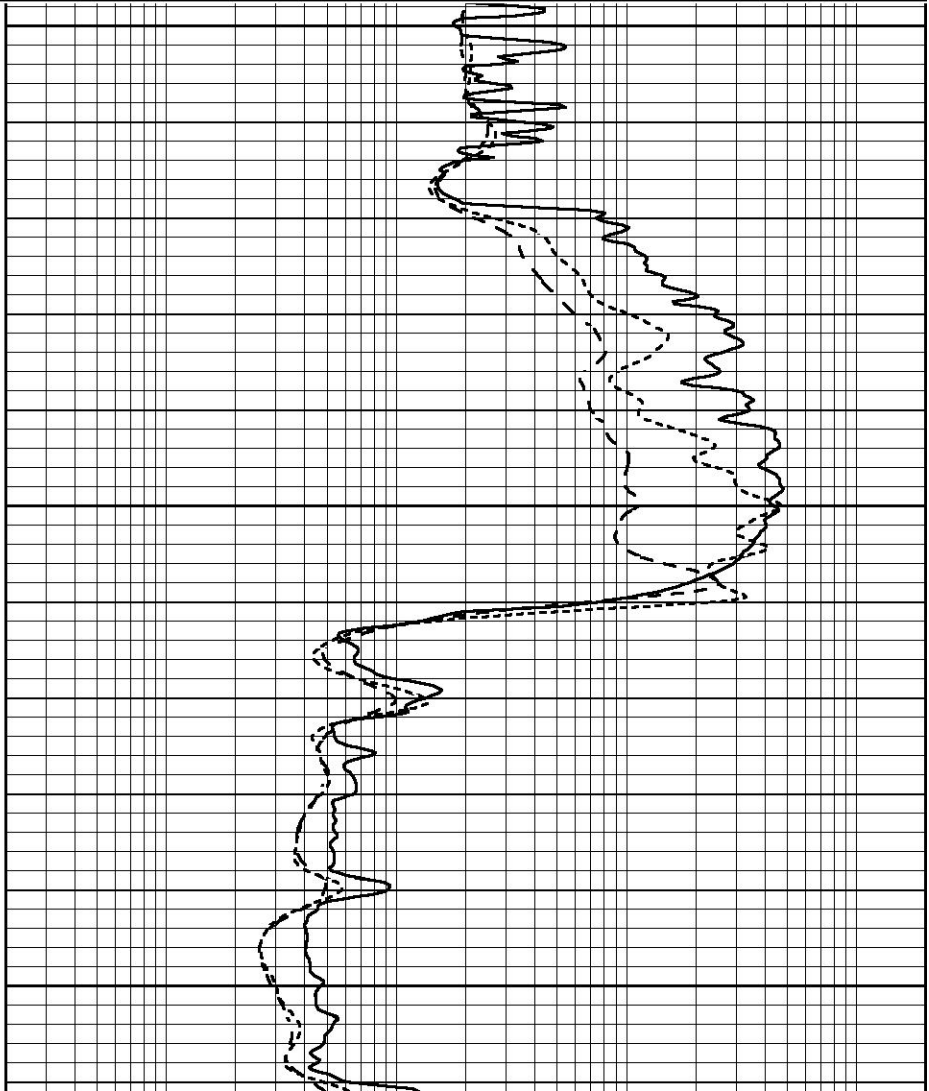
Database File 8411pe.db
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Presentation Format _dil
Dataset Creation Fri Feb 16 00:15:16 2024
Charted by Depth in Feet scaled 1:240

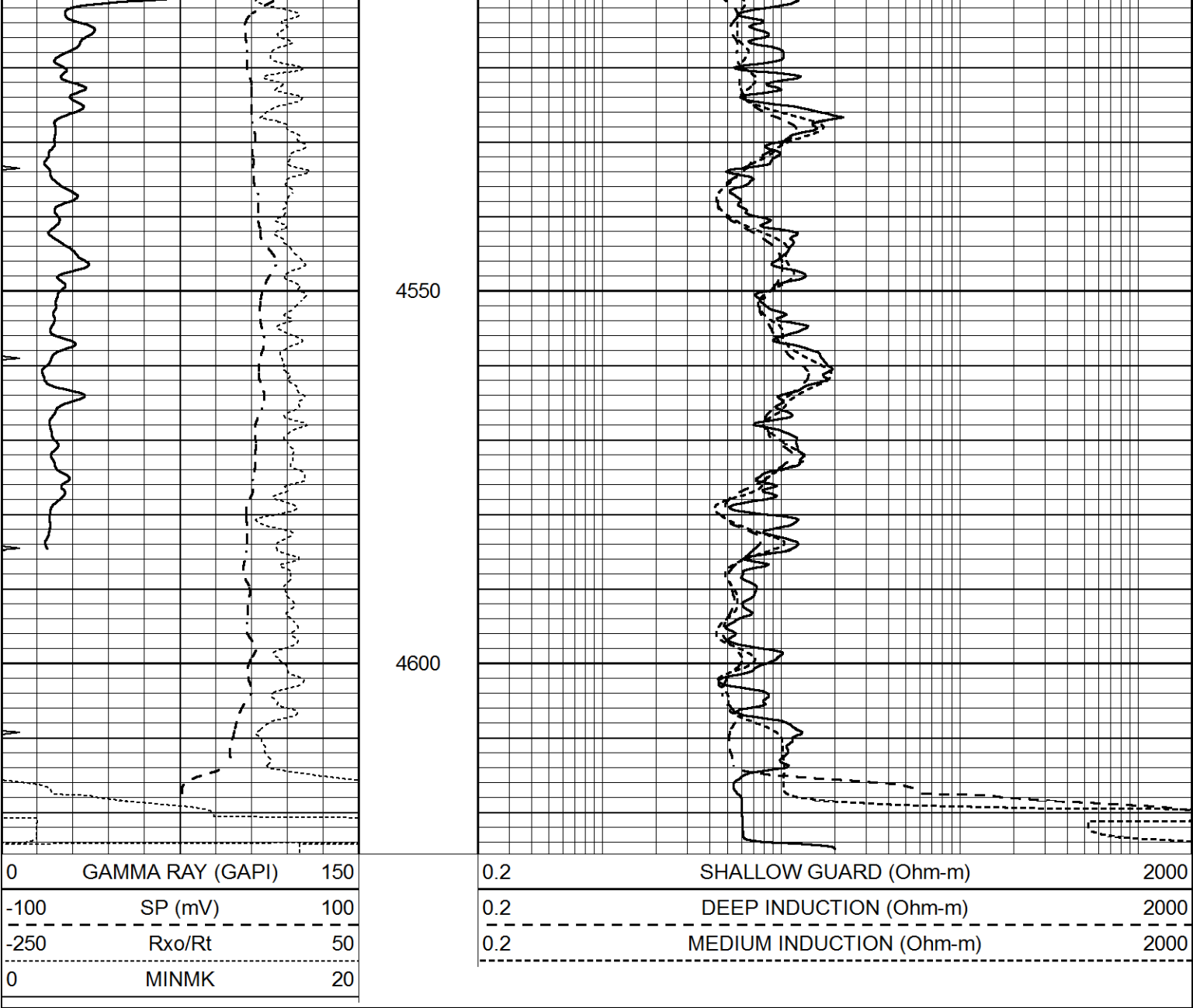


4400

4450

4500





Calibration Report								
Database File	8411pe.db							
Dataset Pathname	pass5.1M							
Dataset Creation	Fri Feb 16 01:12:09 2024							
Dual Induction Calibration Report								
Serial-Model:			PROBE8-DILG					
Surface Cal Performed:			Thu Feb 15 23:44:37 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	10.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	-7.000
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
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: 001 Model: PRB								

Master Calibration			Performed Tue Aug 02 14:54:49 2022					
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1540.1	9840.1	3279.8	3001.8				cps
Window 2	1435.6	8495.4	2920.3	2720.3				cps
Window 3	1167.4	4527.9	1868.6	1810.1				cps
Window 4	344.6	343.5	346.7	342.3				cps
Long Space	0.0	7059.8	1484.8	1284.7				cps
Short Space	3.3	2502.7	1618.3	1368.5				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio			: 0.544	
Spine Angle	: 74.4	Spine Slope	: 3.576	Spine Intercept			: -19.1	

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				
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:	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		