

DUAL INDUCTION LOG

Company	DOWNING - NELSON OIL CO., INC.		
Well	HFI #2-27		
Field	UNNAMED		
County	RAWLINS	State	KANSAS
Location:	API # : 15-153-21328-0000		Other Services CDL/CNL/MEL SONIC/FF
Permanent Datum		GROUND LEVEL	Elevation 3358
Log Measured From		KELLY BUSHING 11' A.G.L	
Drilling Measured From		KELLY BUSHING	
SEC 27 TWP 4S RGE 36W			Elevation K.B. 3369 D.F. 3367 G.L. 3358
1549' FSL & 1459' FWL			
4/1/24	ONE		
Run Number	ONE		
Depth Driller	4960		
Depth Logger	4962		
Bottom Logged Interval	4960		
Top Log Interval	00		
Casing Driller	8.625@478		
Casing Logger	478		
Bit Size	7.785		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,200 PPM	
Density / Viscosity	9.5/67		
pH / Fluid Loss	10.5/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.00@60F		
Rmf @ Meas. Temp	1.50@60F		
Rmc @ Meas. Temp	2.40@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.960@125F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	7:30 P.M.		
Maximum Recorded Temperature	125F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS	JEREMEY PASEK	
Witnessed By	MARC DOWNING		

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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.

15-153-21328-0000

Comments

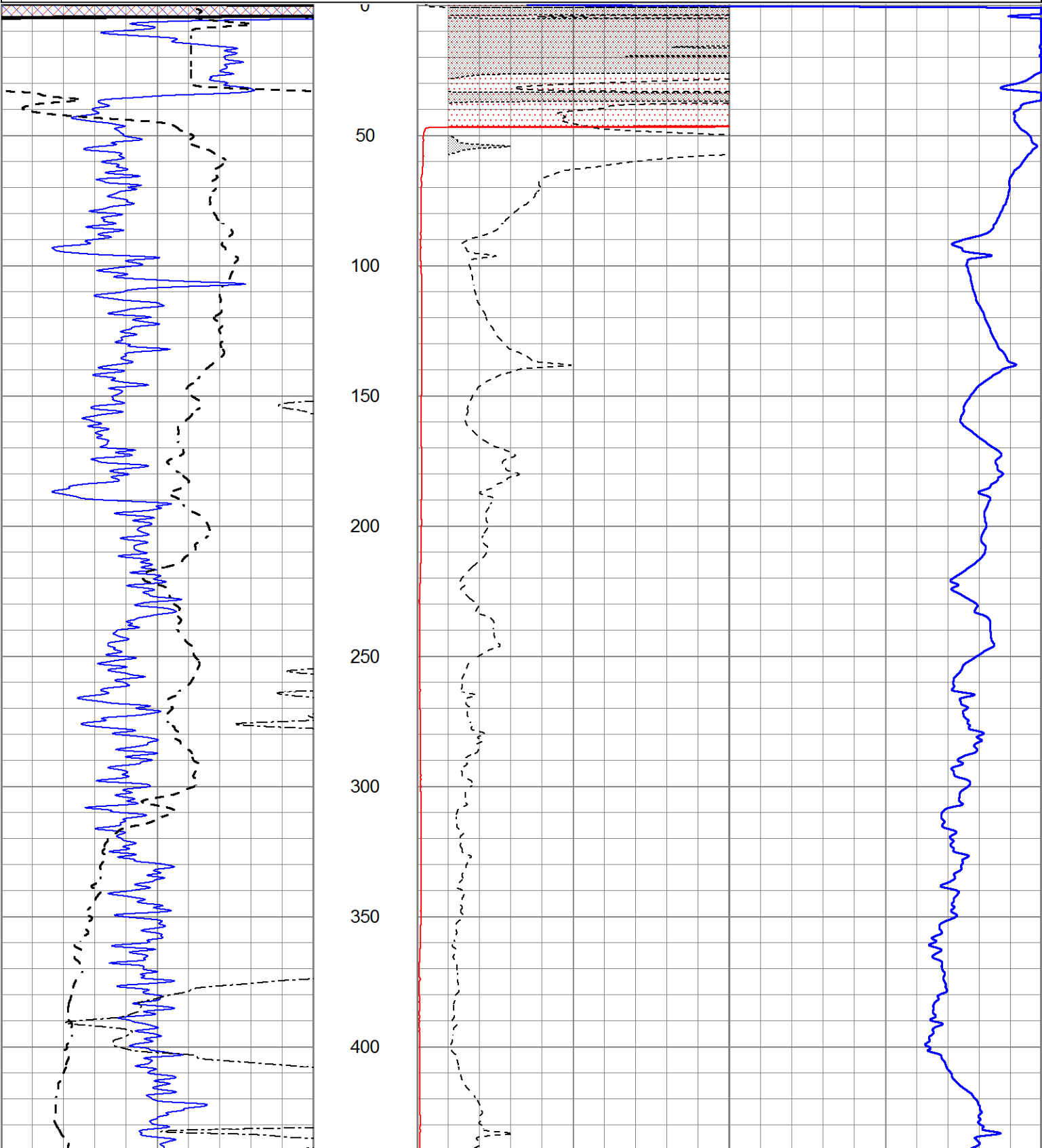
THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS
BREWSTER, KS., N. TO "RD. H", 1E., 1/2N. ON TRAIL & E. INTO

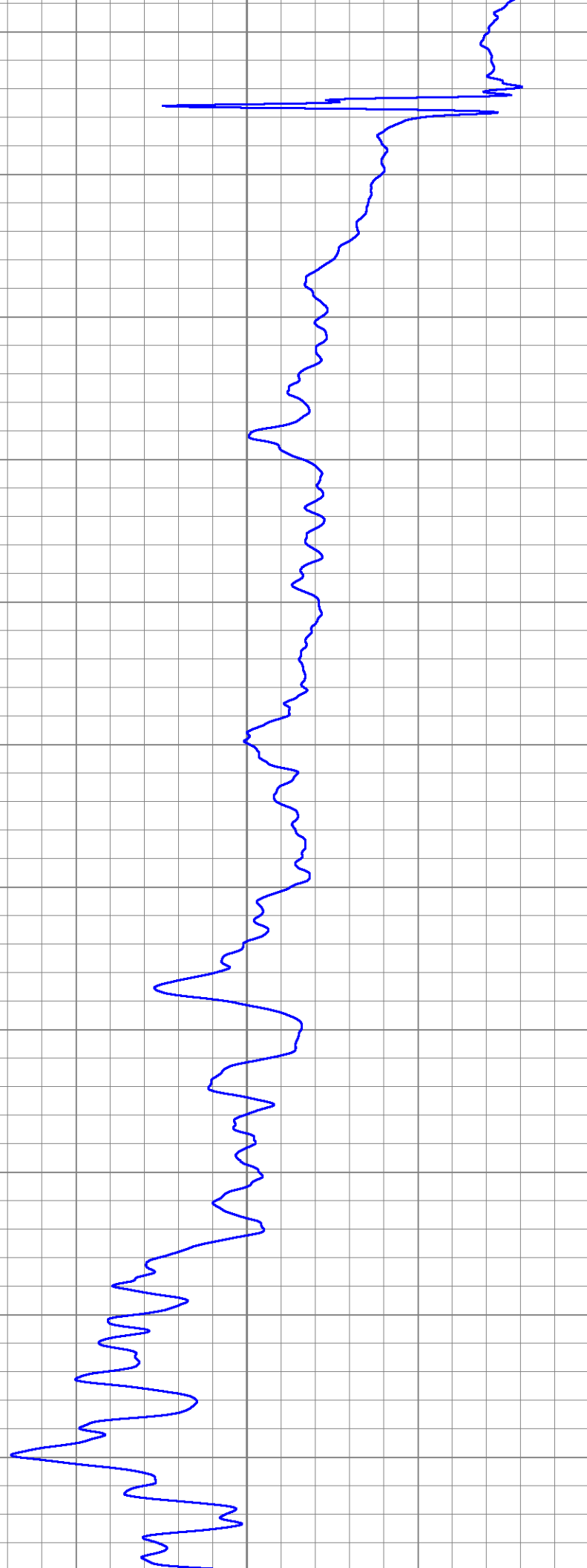
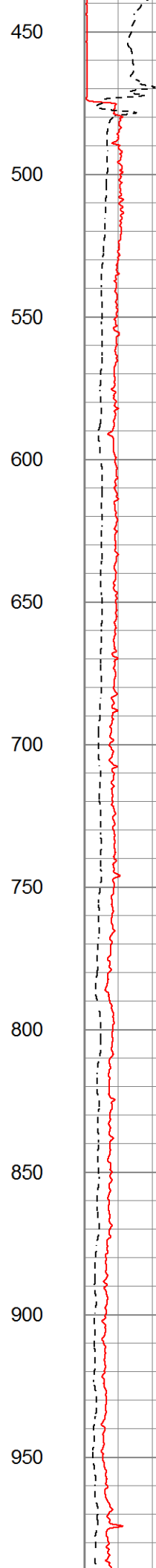
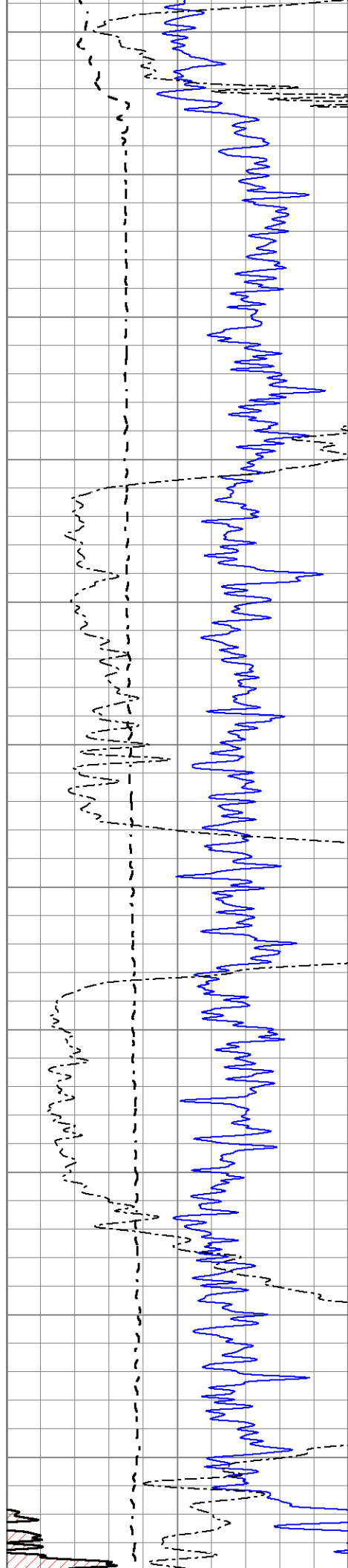


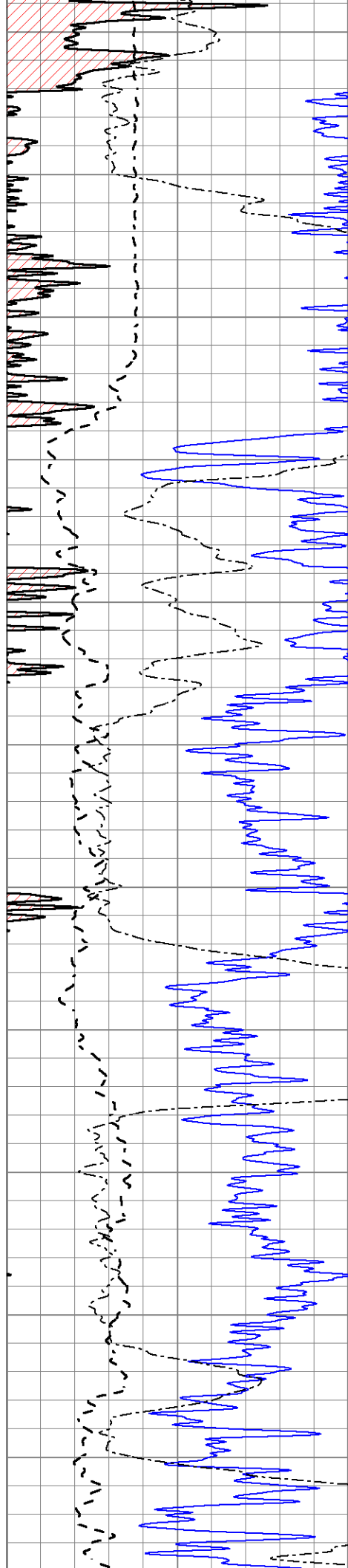
MAIN SECTION

Database File	8479ddn.db
Dataset Pathname	pass4.1M
Presentation Format	_dil2
Dataset Creation	Mon Apr 01 21:44:38 2024
Charted by	Depth in Feet scaled 1:600

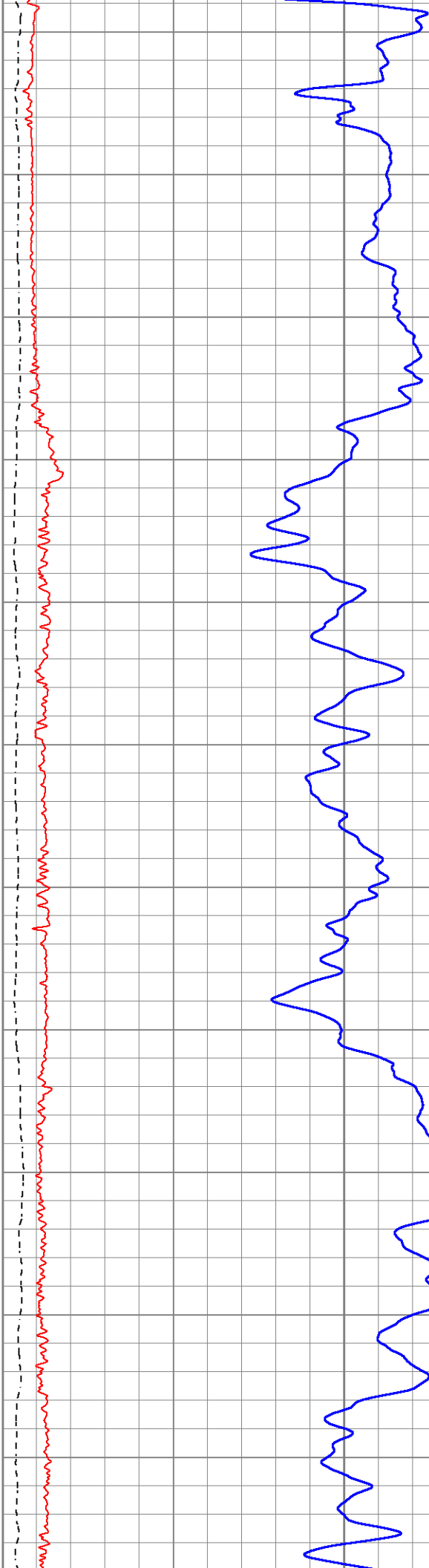
0	Gamma Ray (GAPI)	150	1000	CILD (mmho/m)	0
-100	SP (mV)	100	0	RLL3 (Ohm-m)	50
0	RWA (Ohm-m)	1	0	RILD (Ohm-m)	50
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500



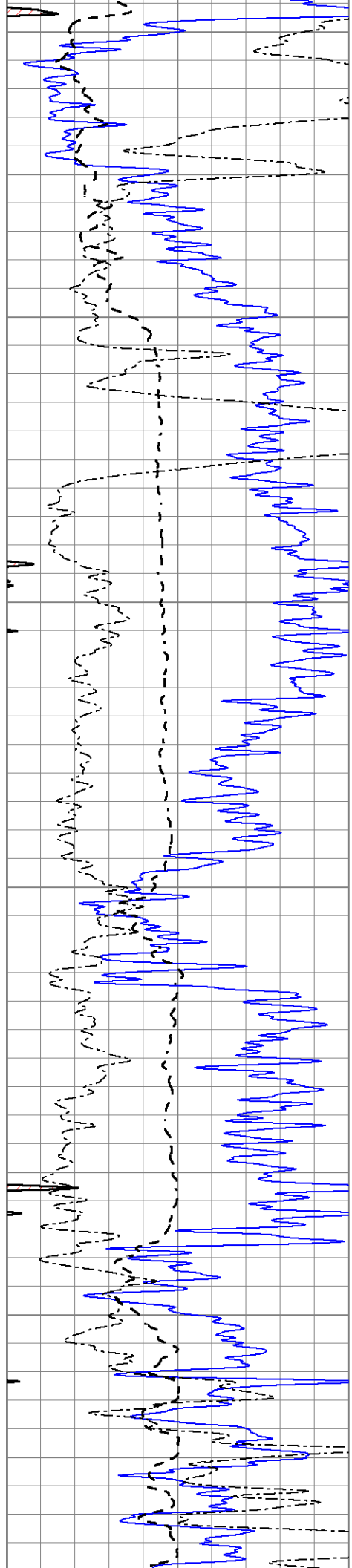
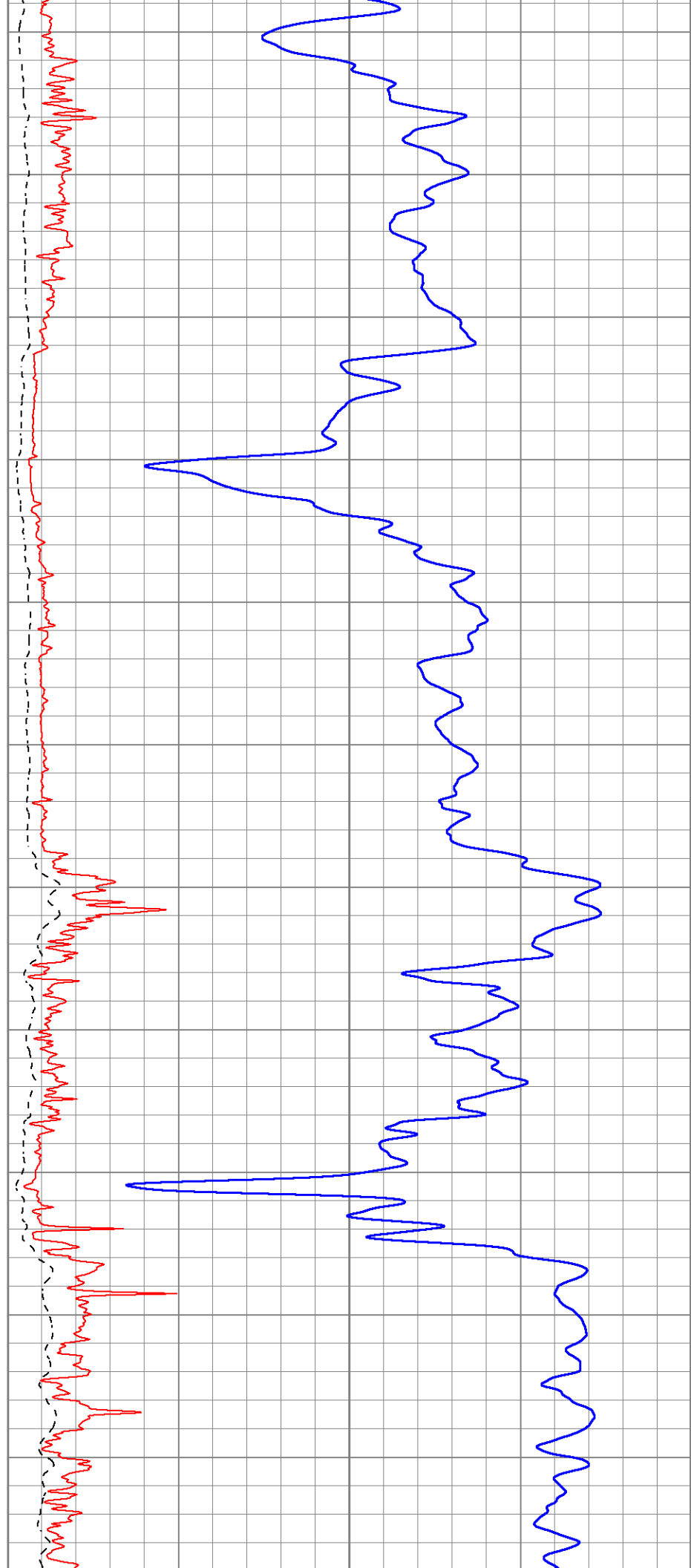


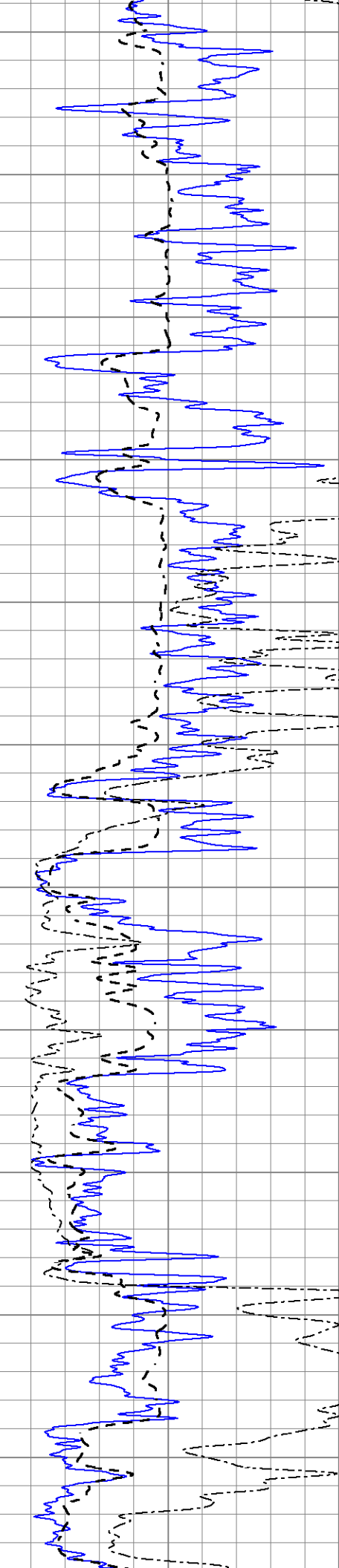


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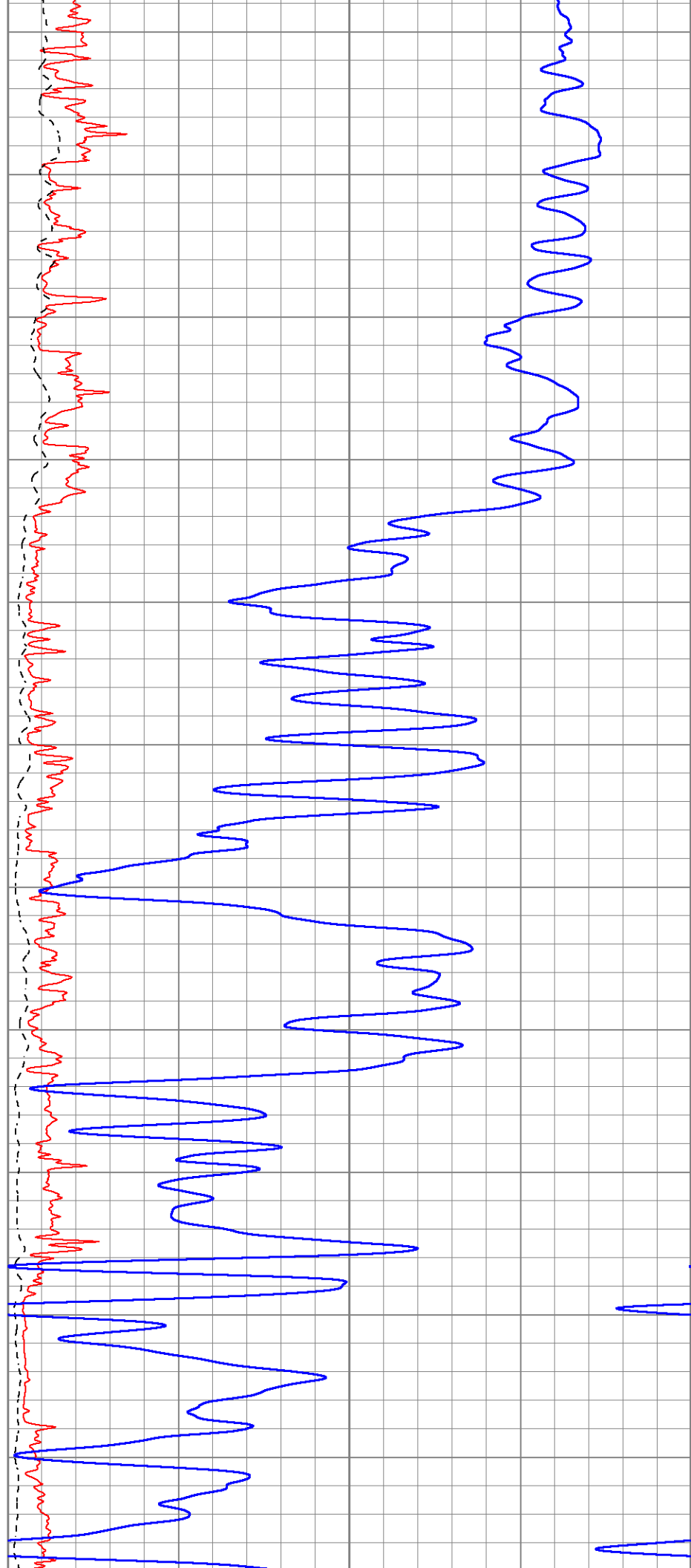


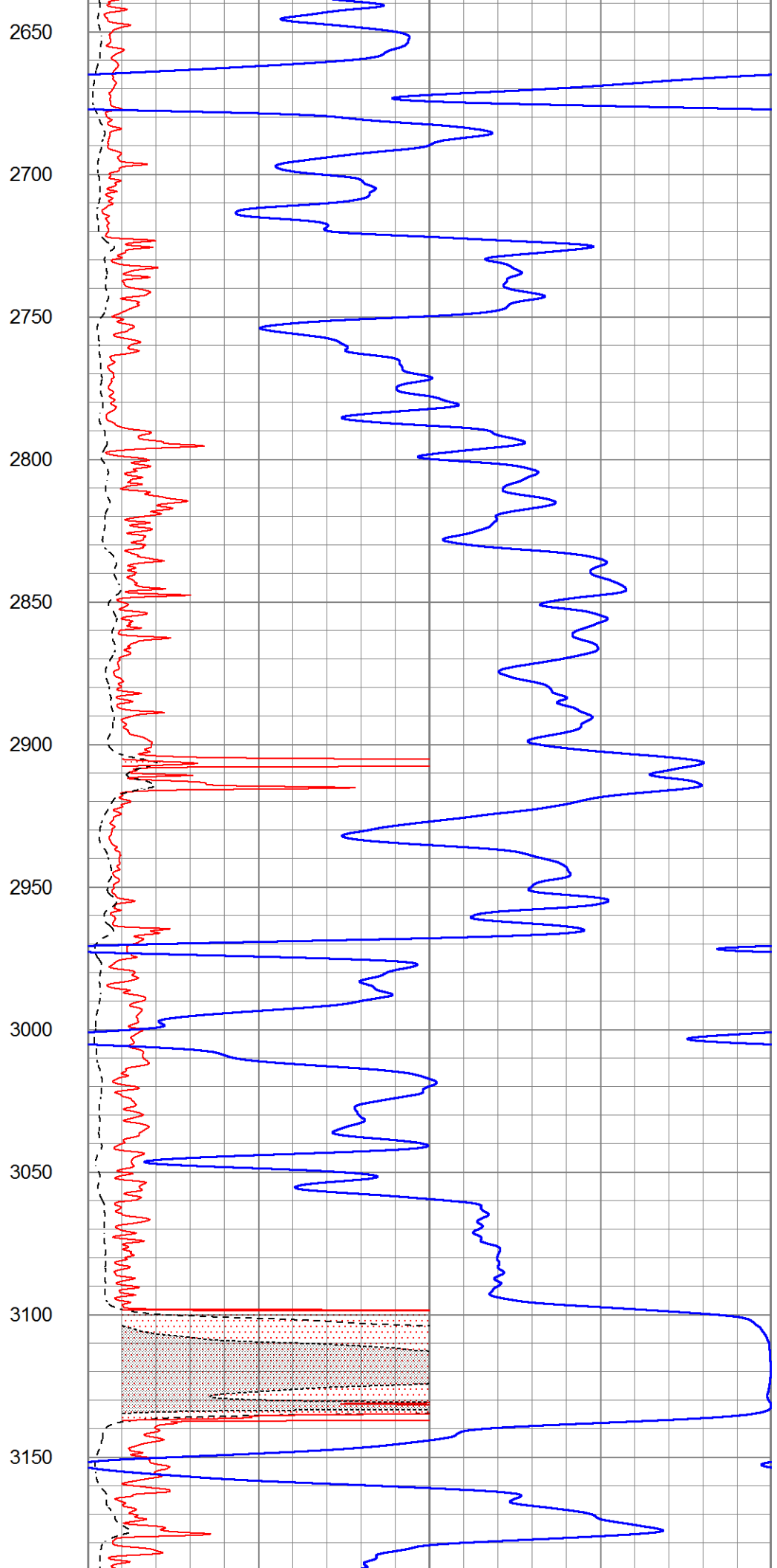
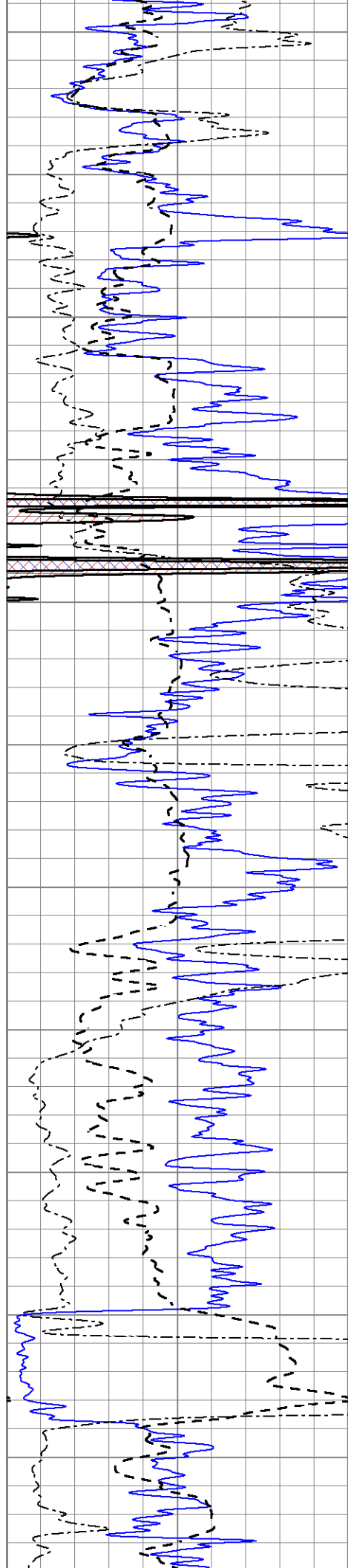
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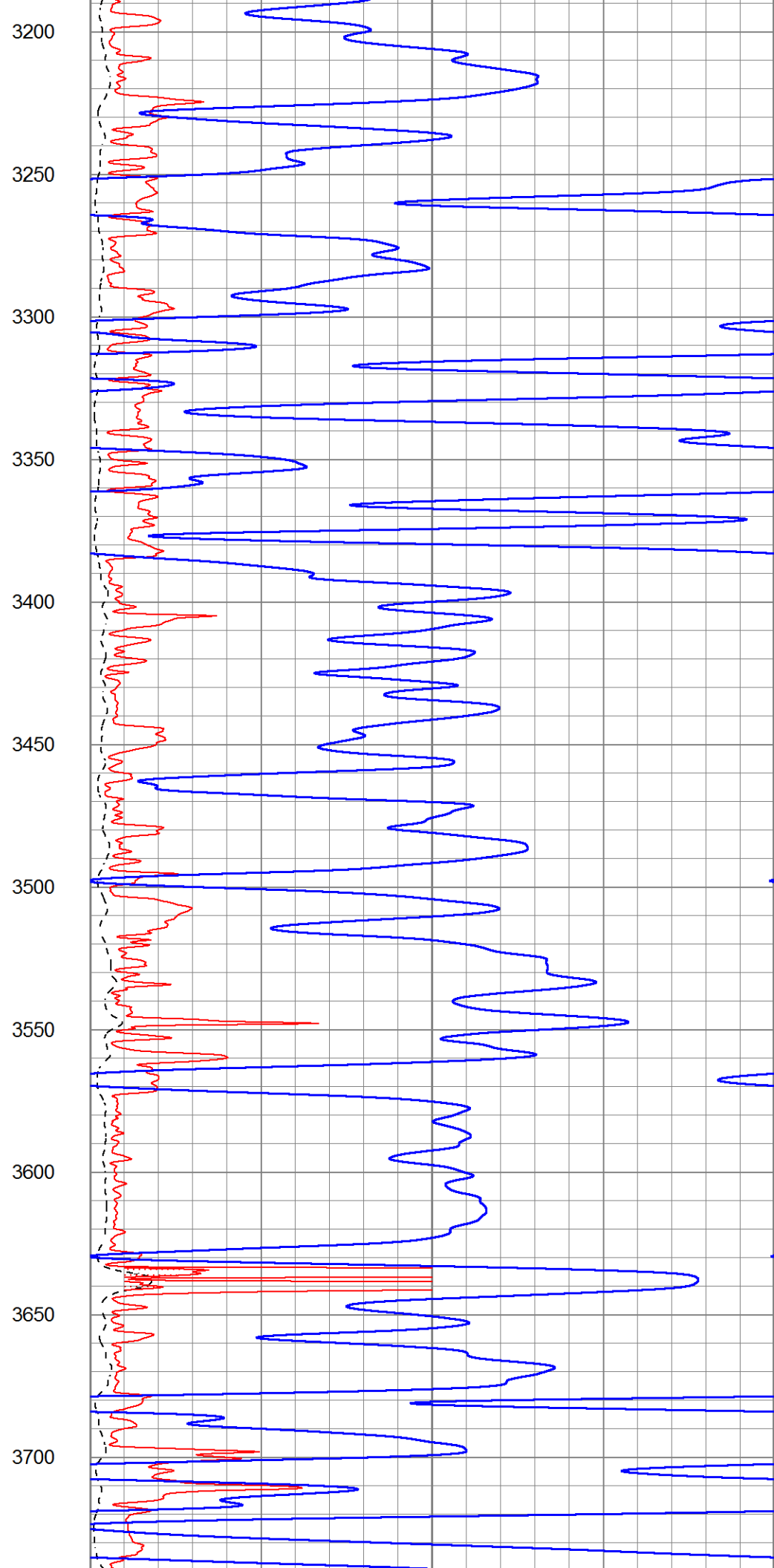
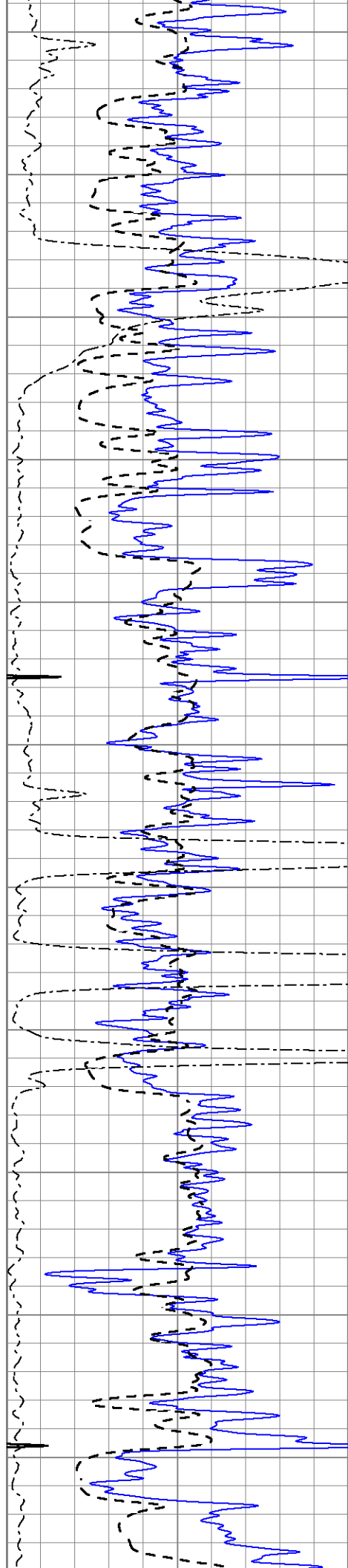


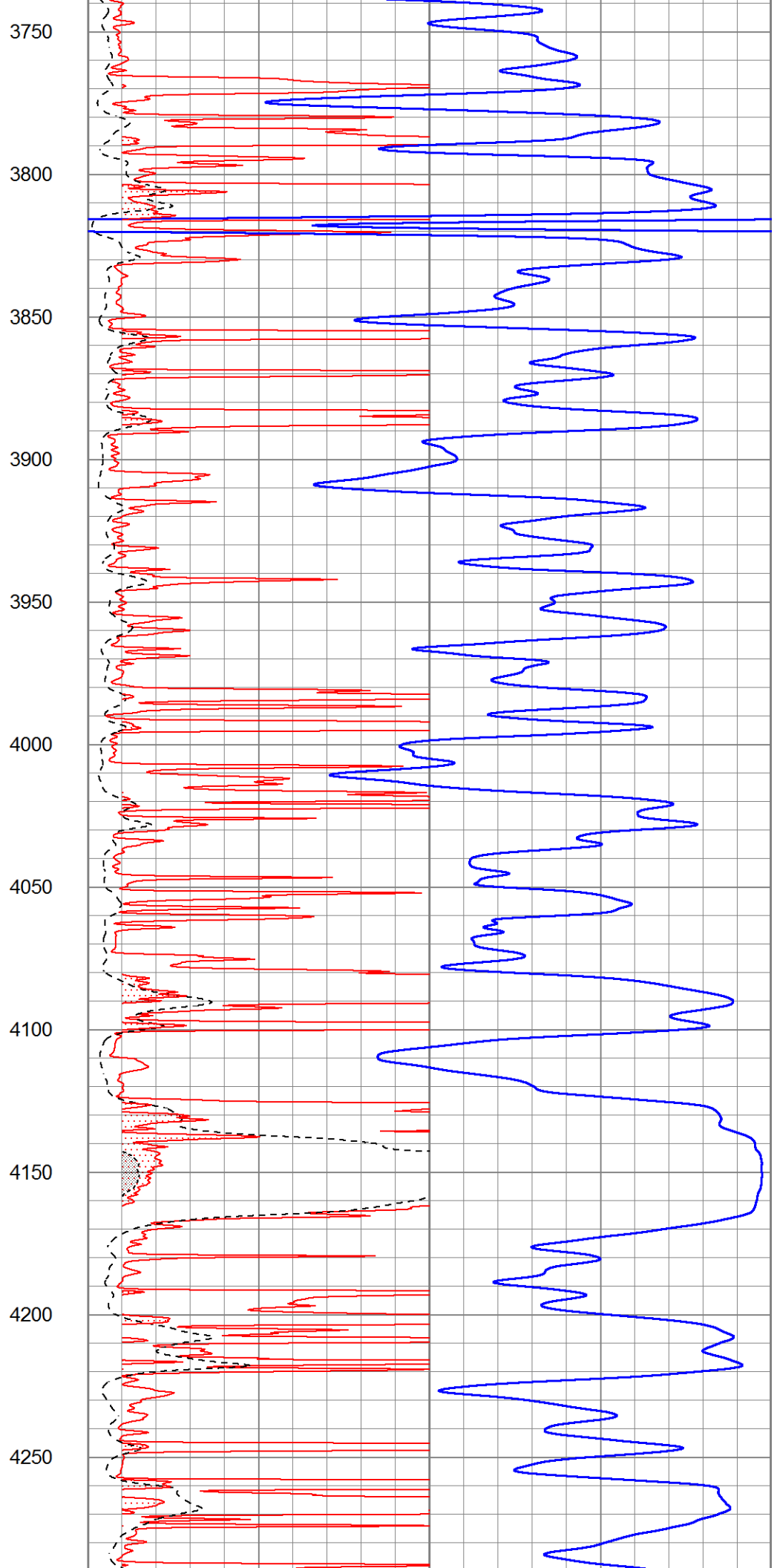
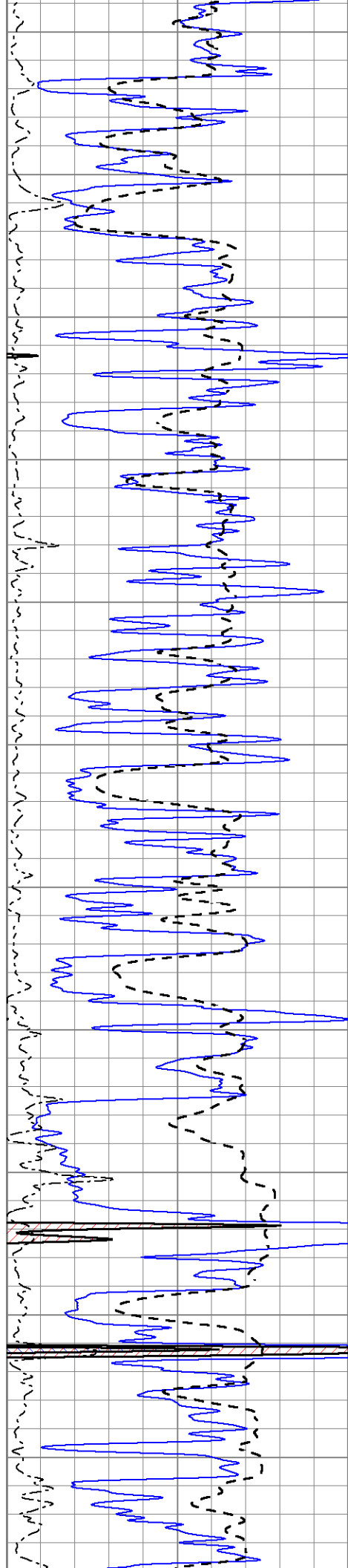


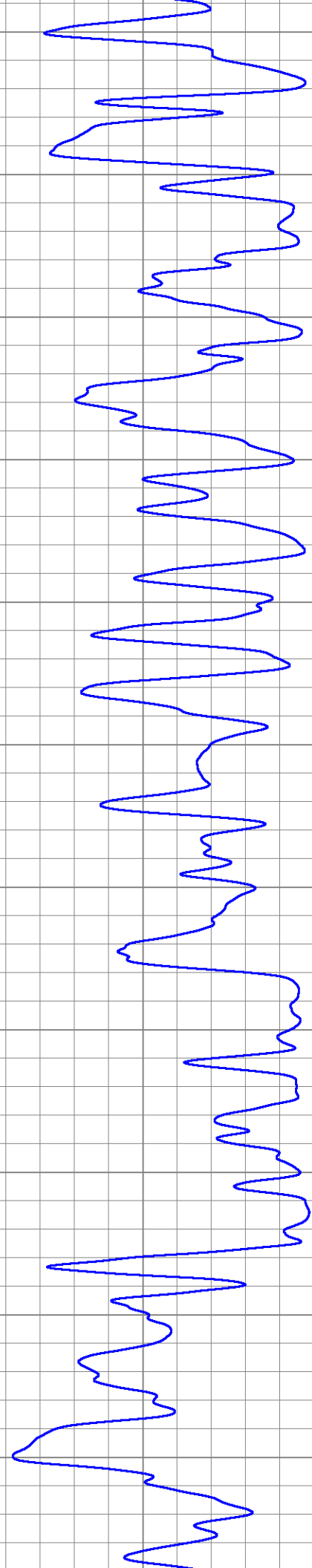
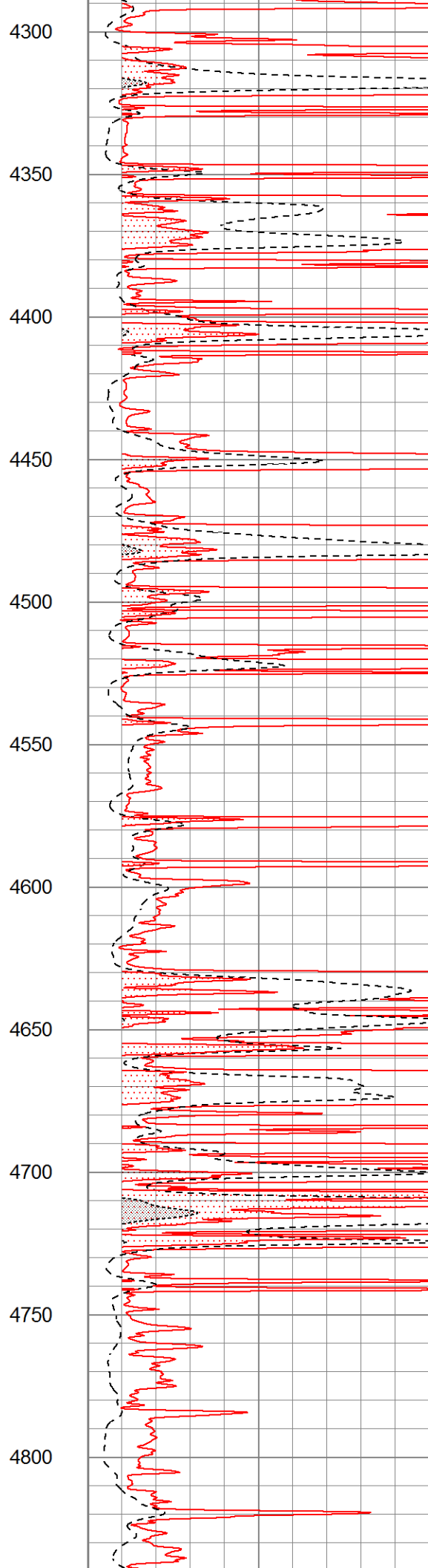
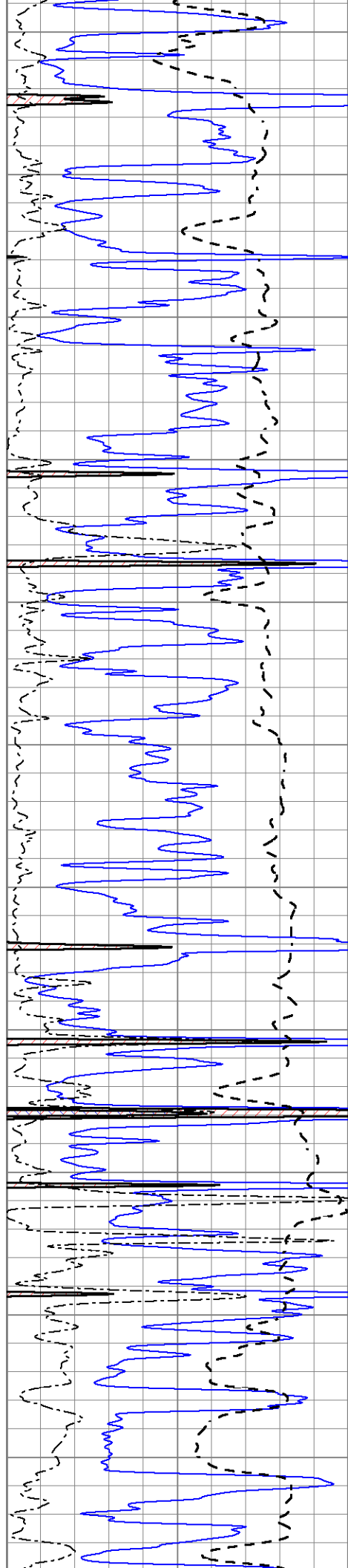
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2500
2550
2600

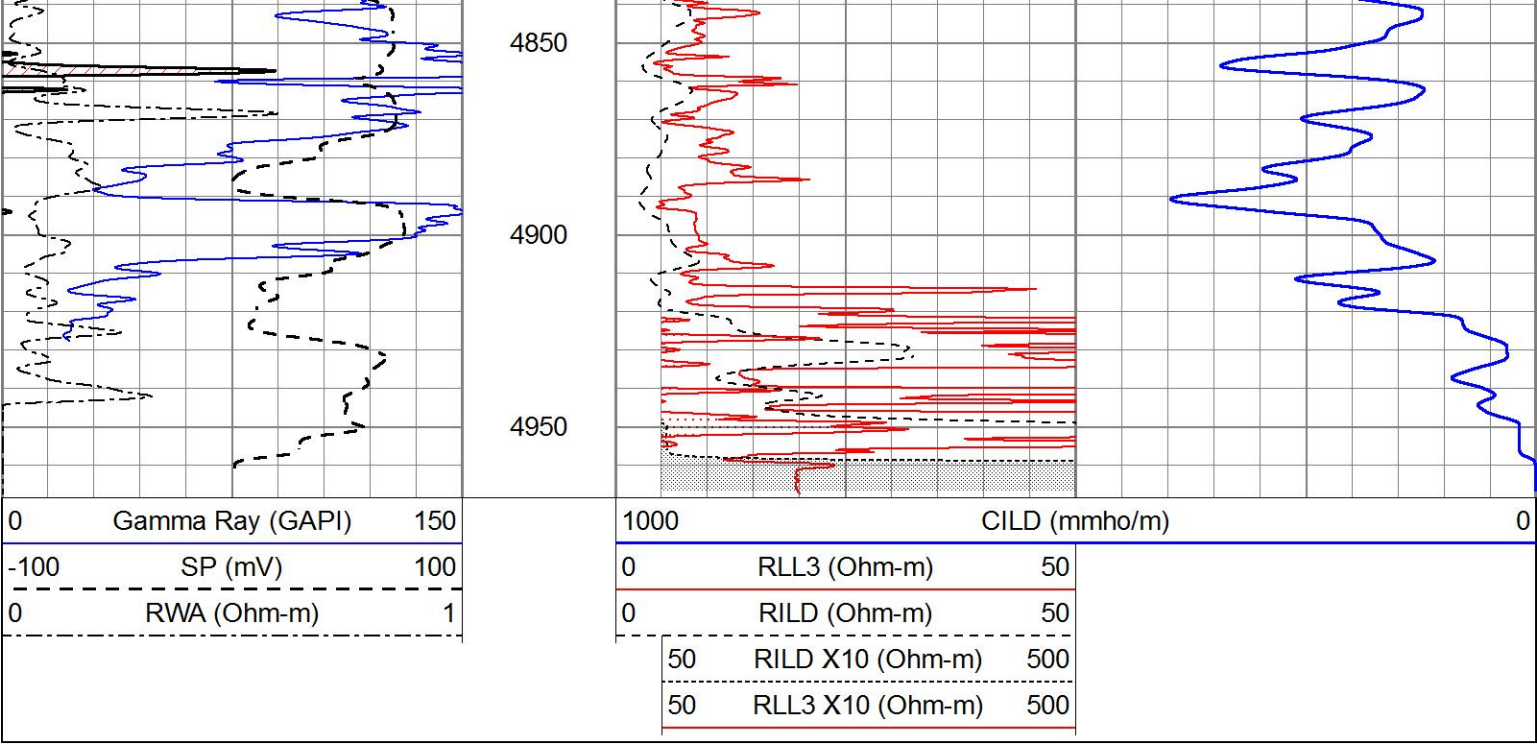








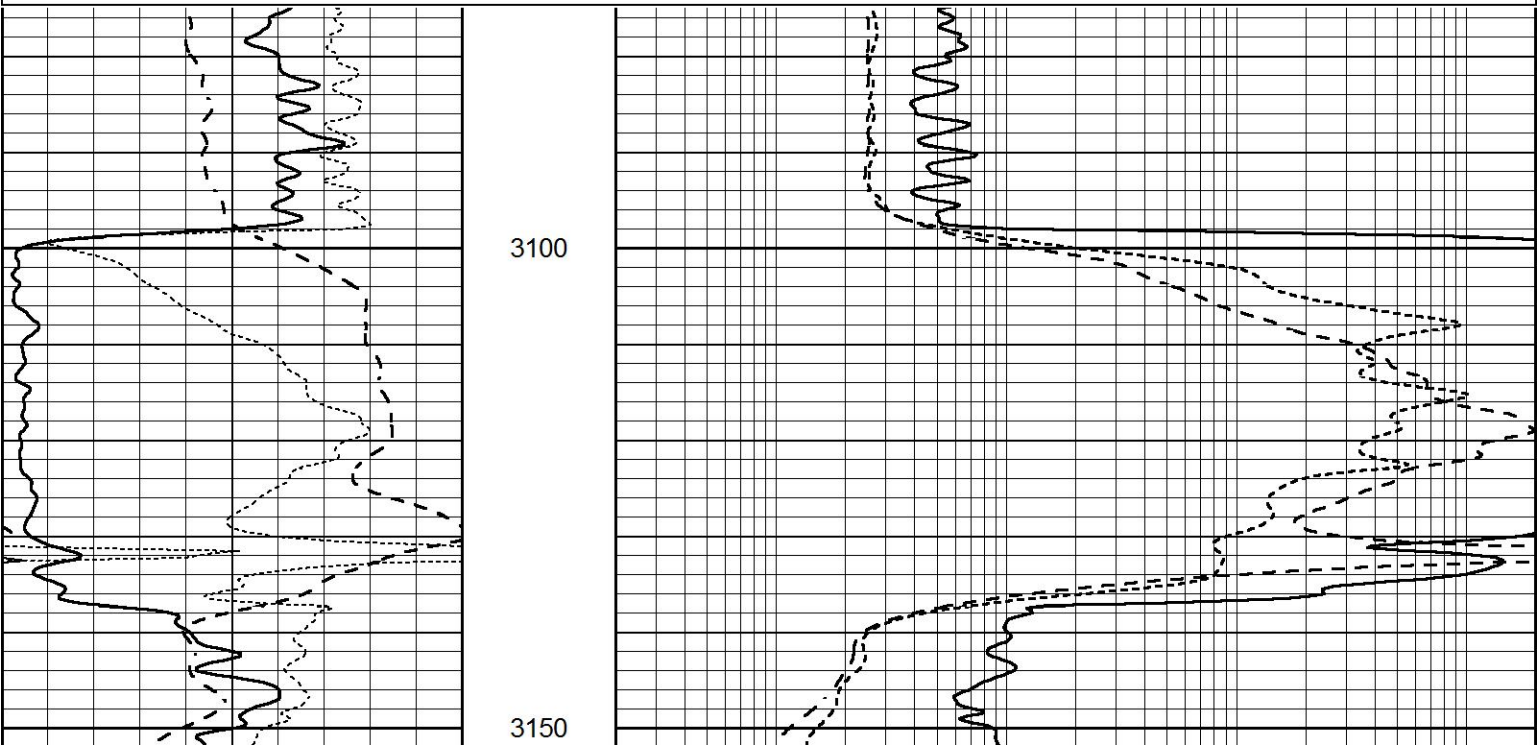


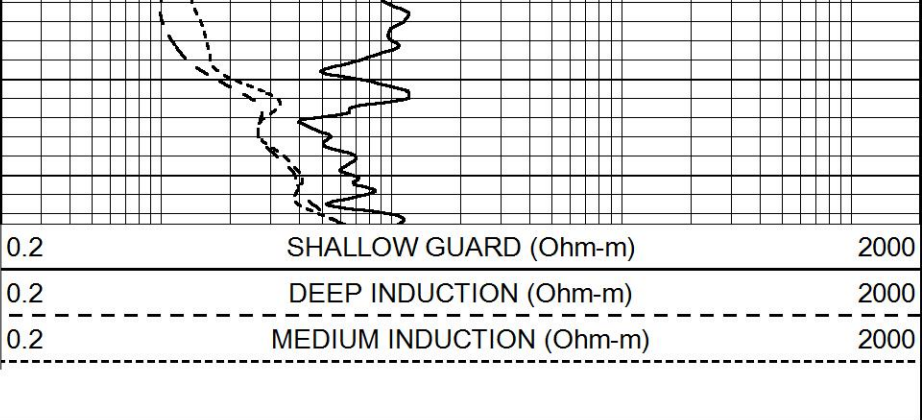
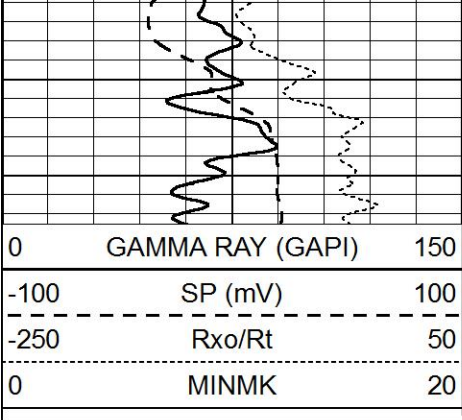


ANHYDRITE

Database File 8479ddn.db
Dataset Pathname pass4.1A
Presentation Format _dil
Dataset Creation Mon Apr 01 21:45:03 2024
Charted by Depth in Feet scaled 1:240

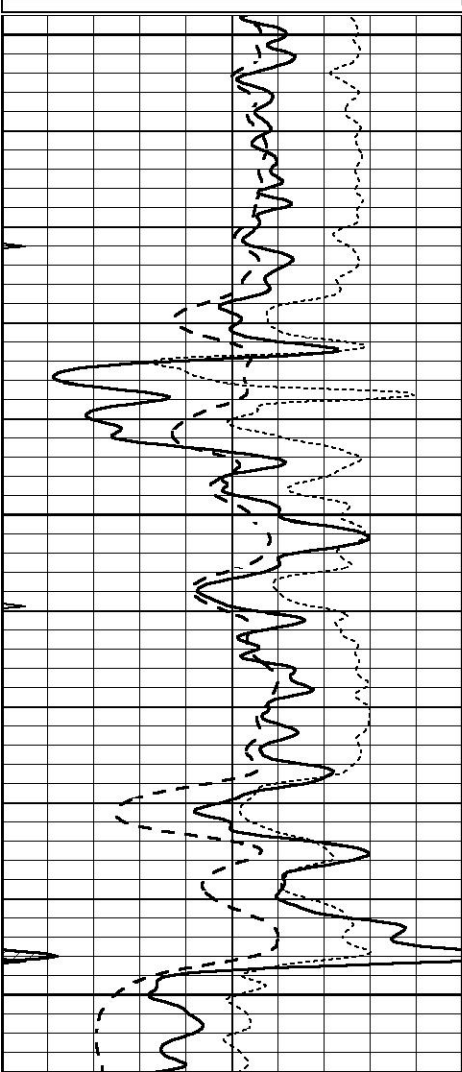
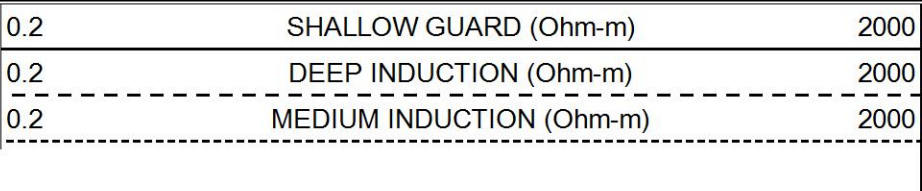
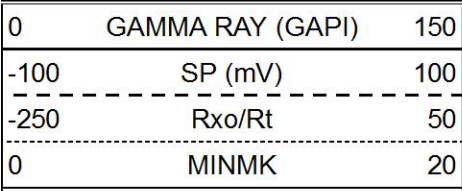
0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			





MAIN SECTION

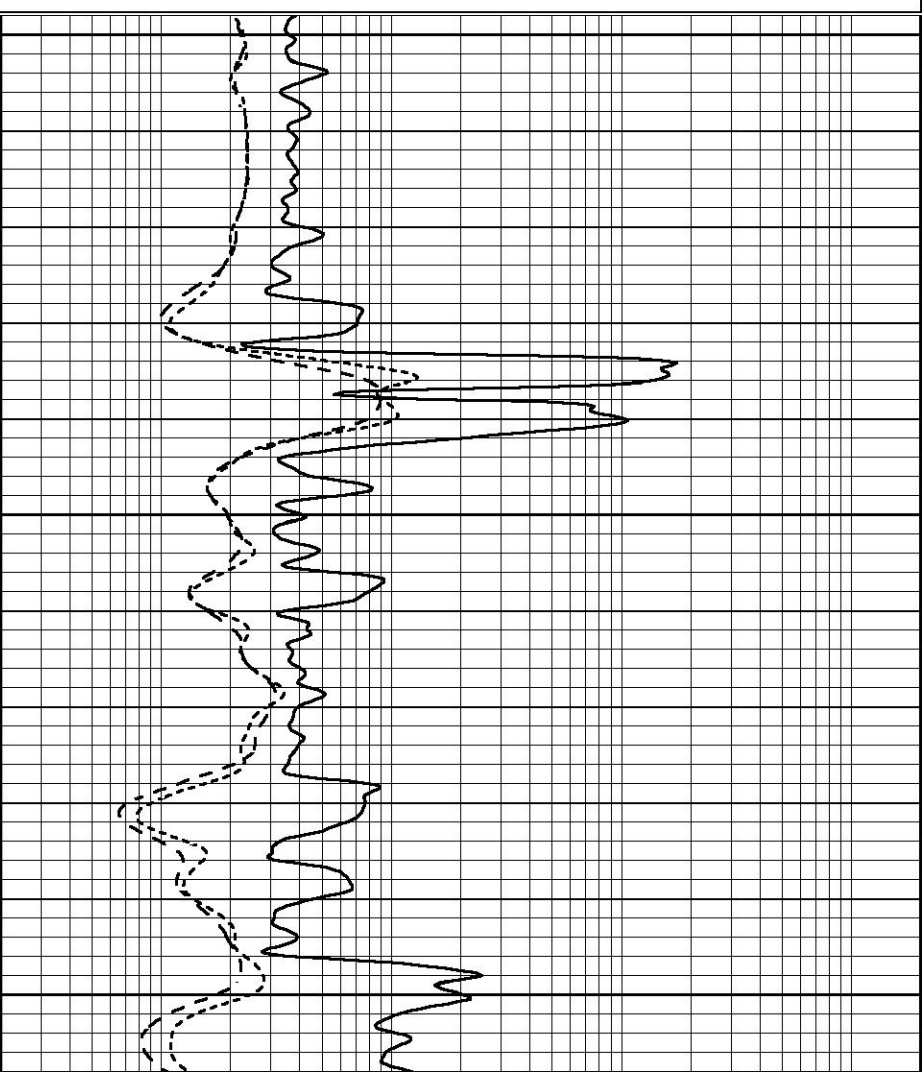
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Dataset Pathname	pass4.1M
Presentation Format	_dil
Dataset Creation	Mon Apr 01 21:44:38 2024
Charted by	Depth in Feet scaled 1:240

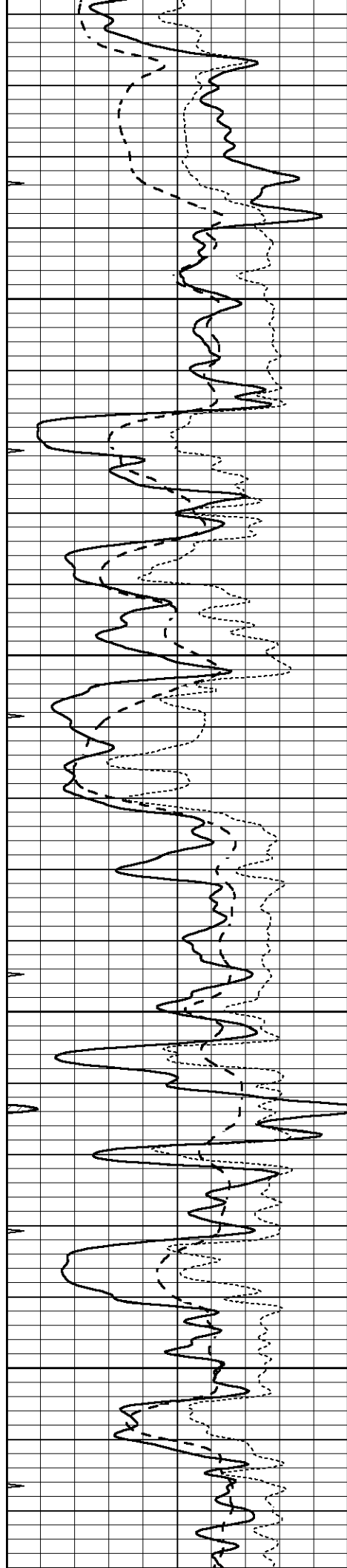


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3650

3700



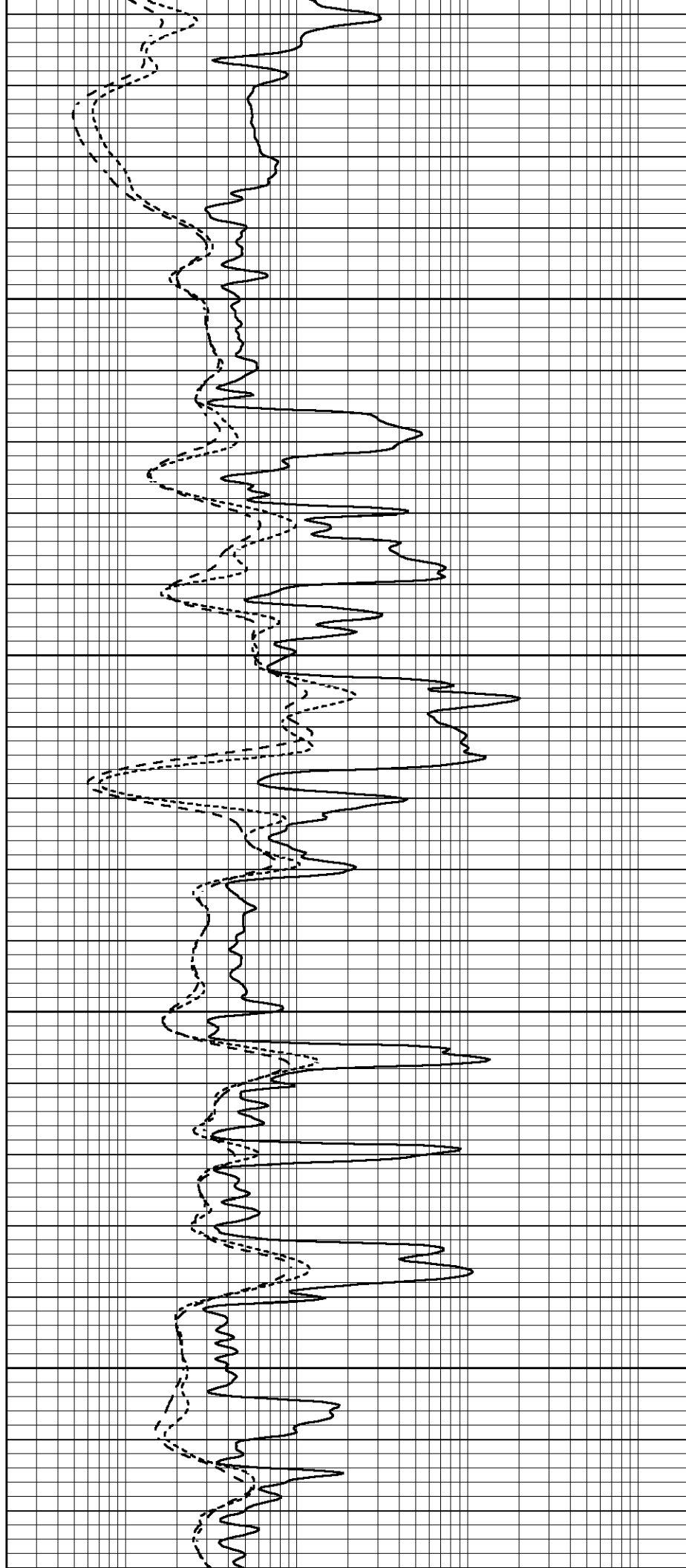


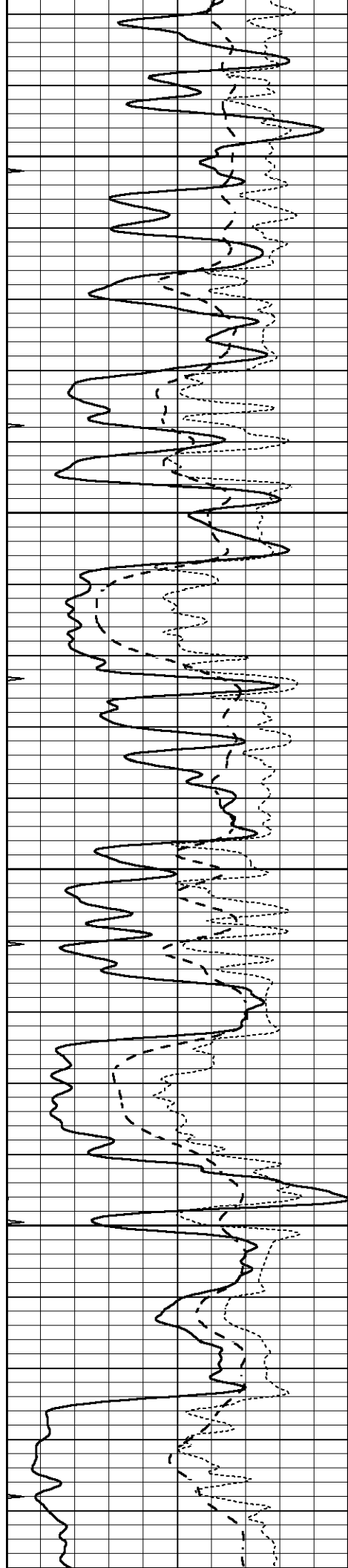
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3800

3850

3900



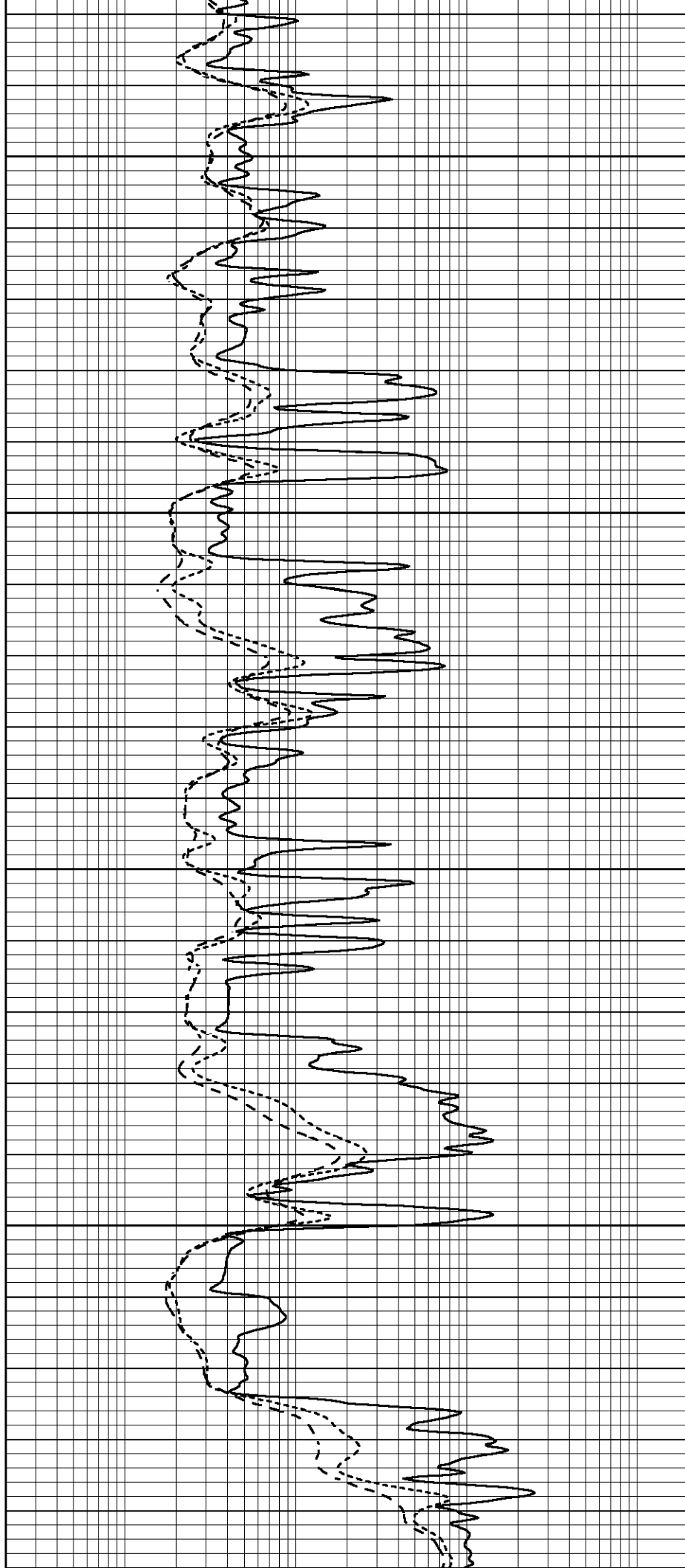


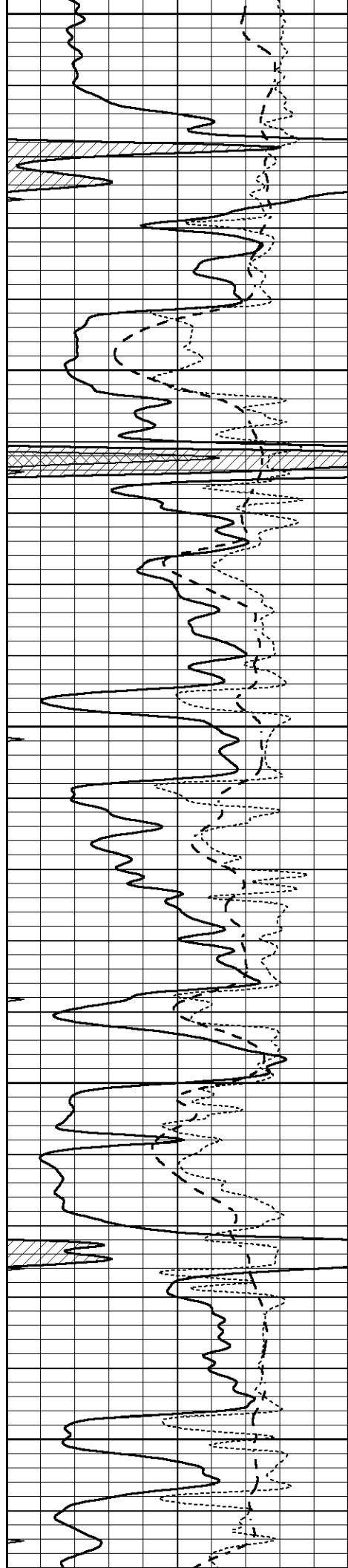
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4000

4050

4100





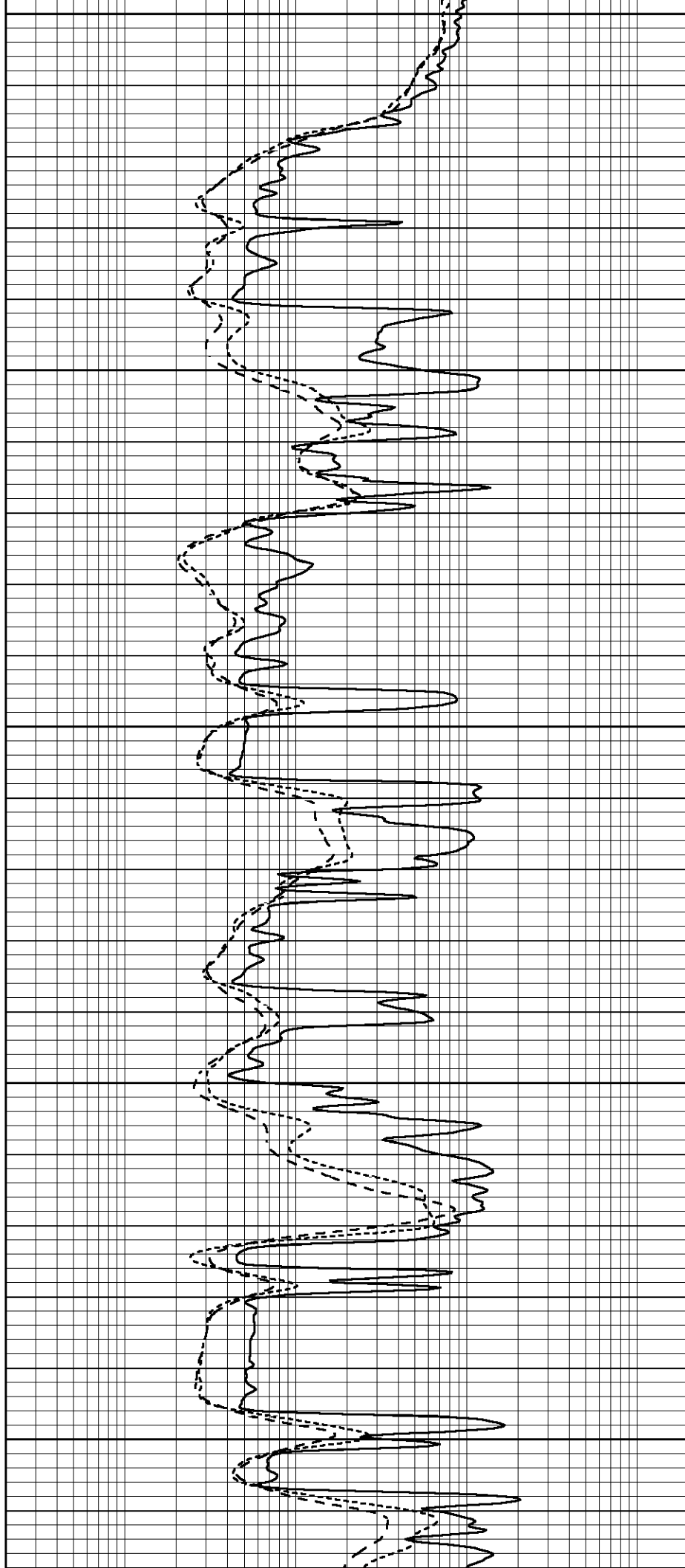
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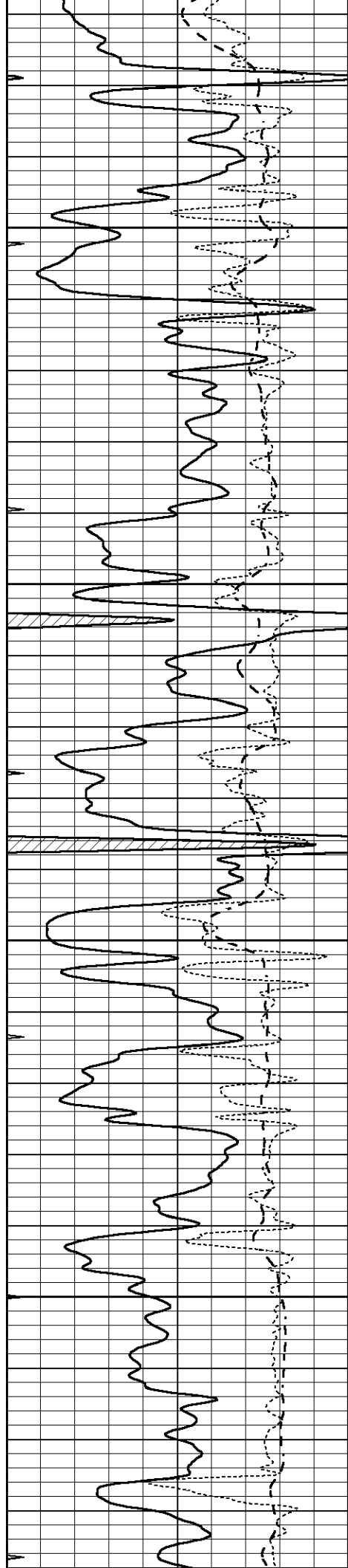
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4250

4300

4350



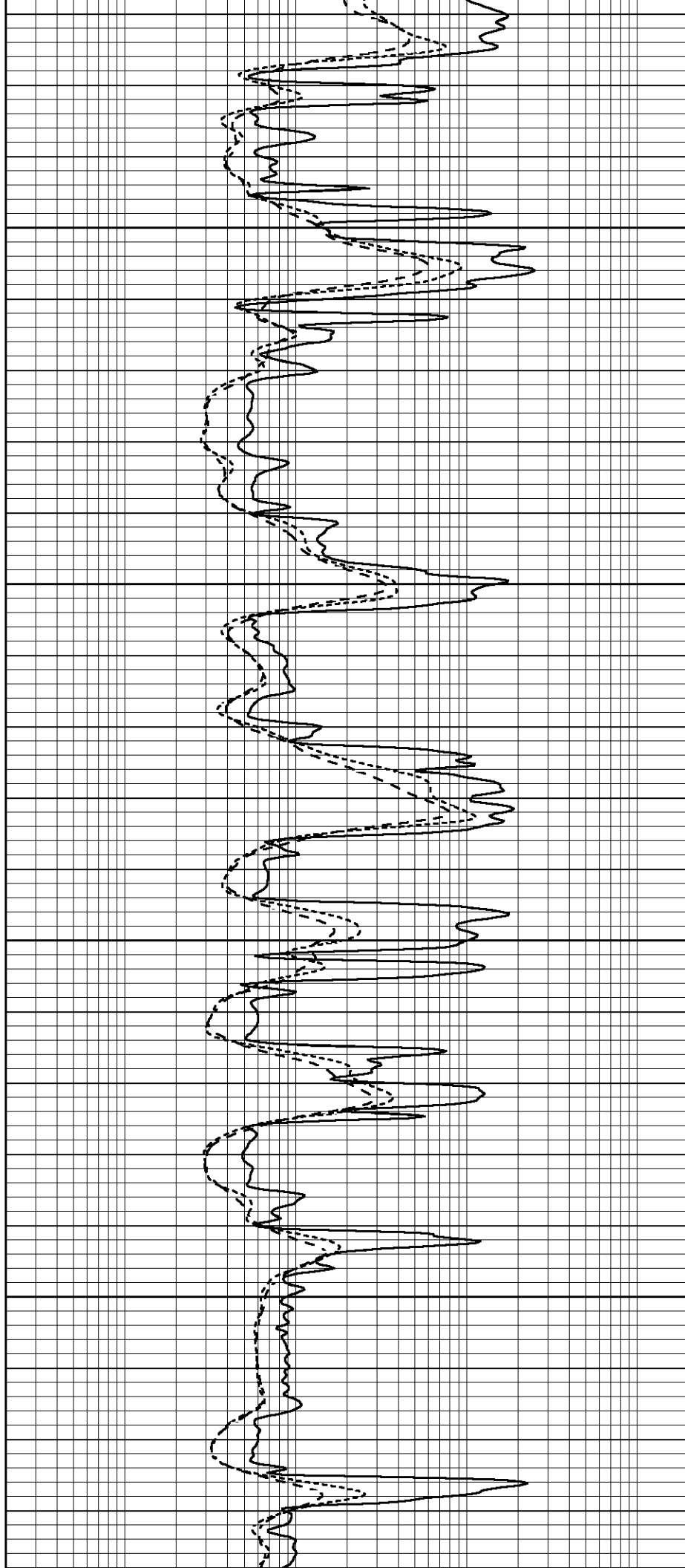


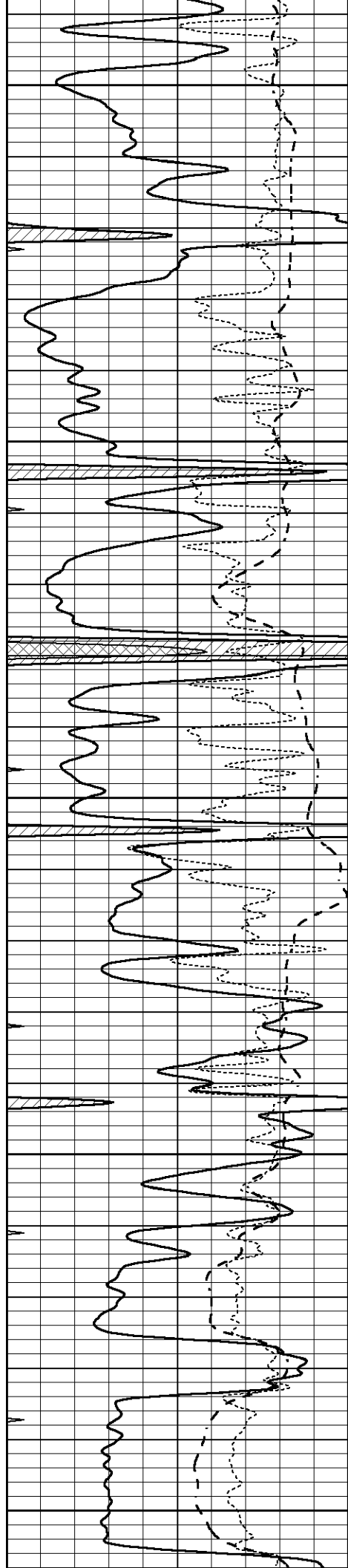
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4450

4500

4550





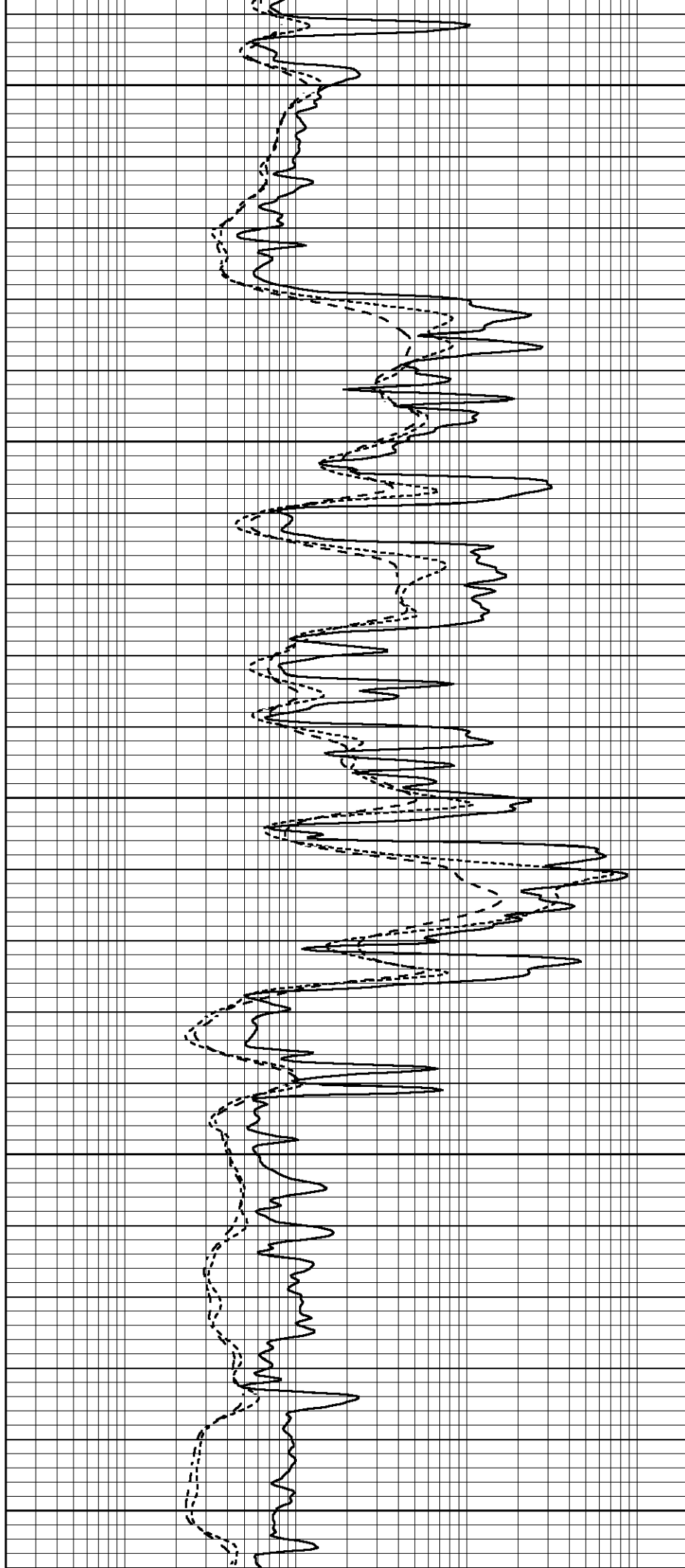
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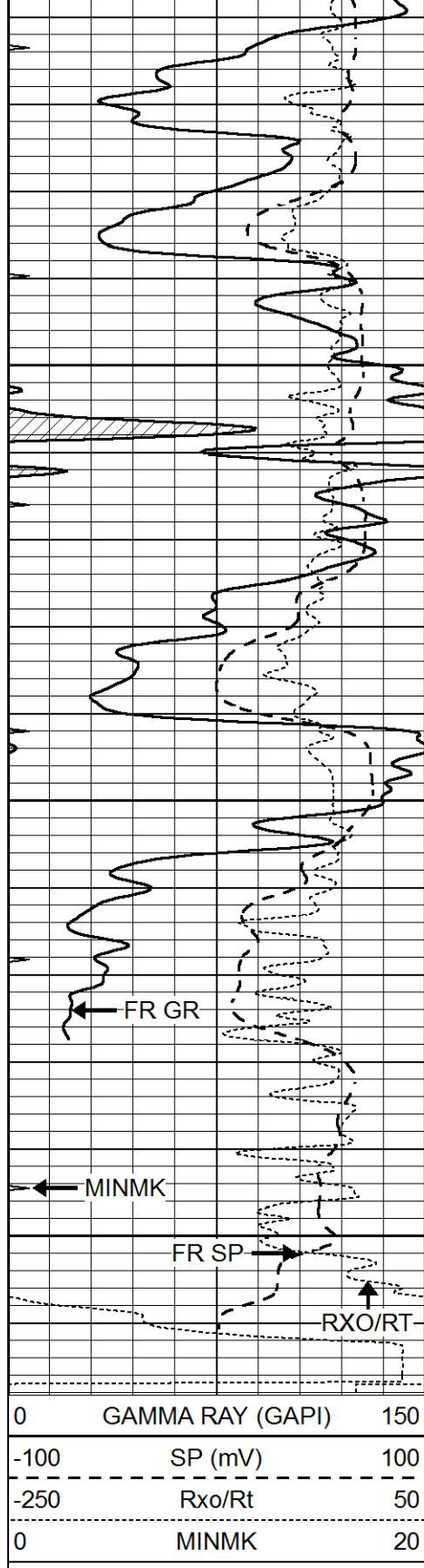
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4700

4750

4800



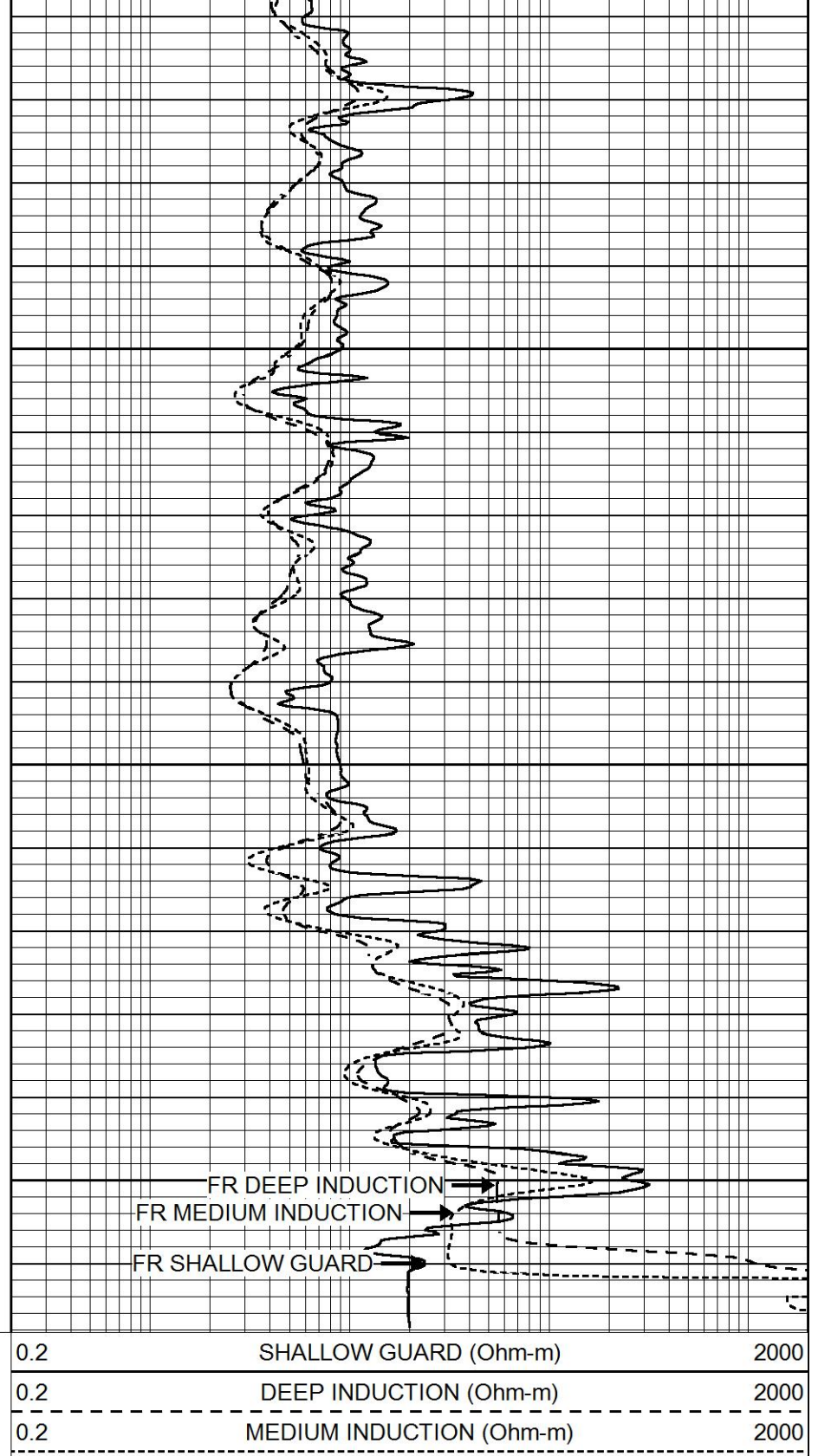


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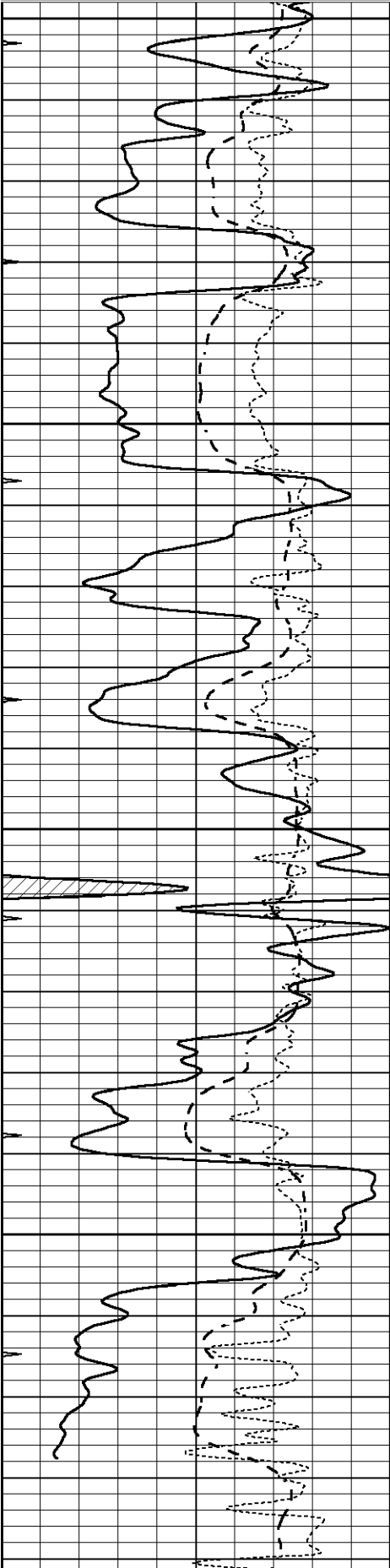
4950

LTD 4962



REPEAT SECTION

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			

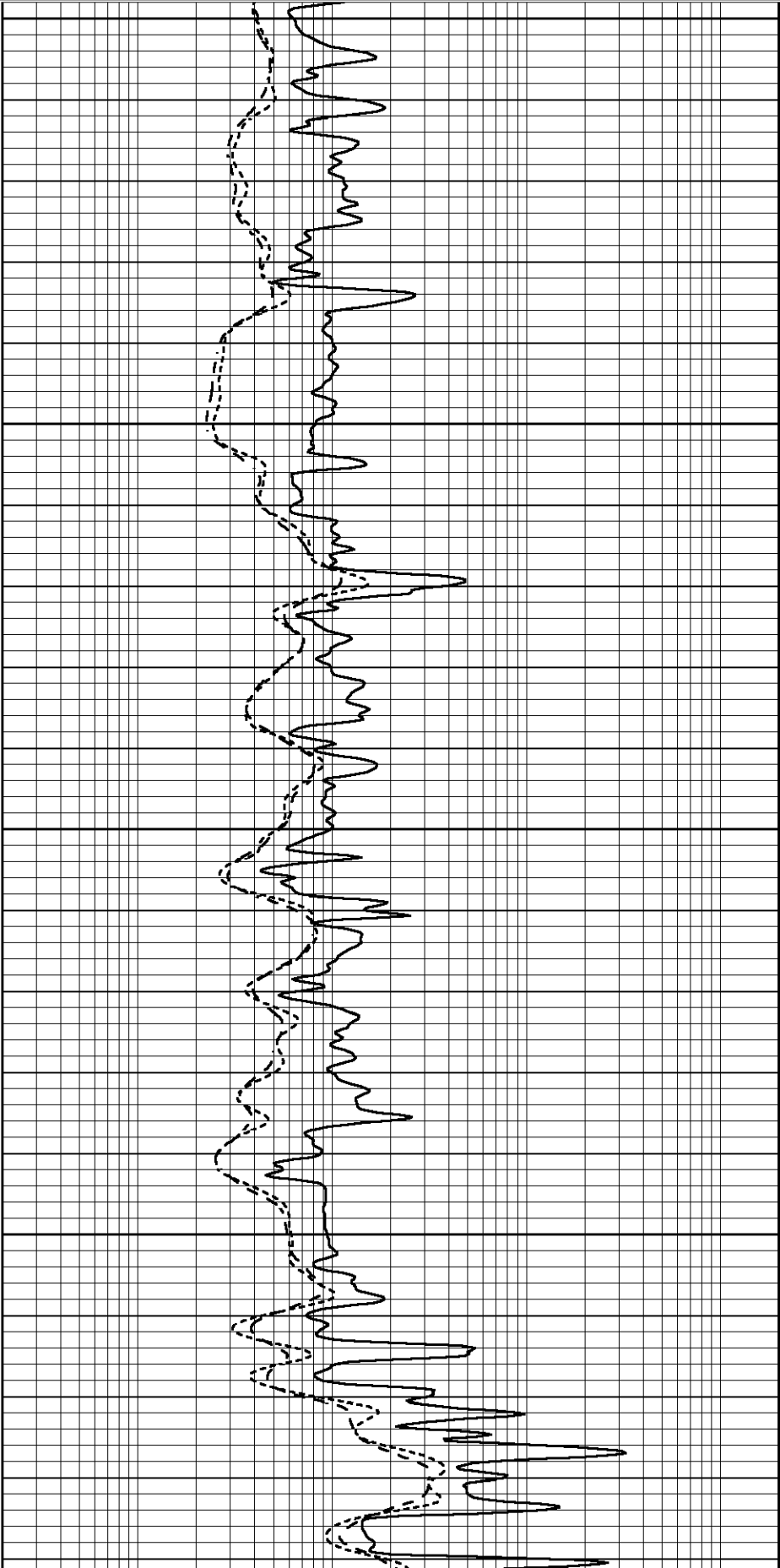


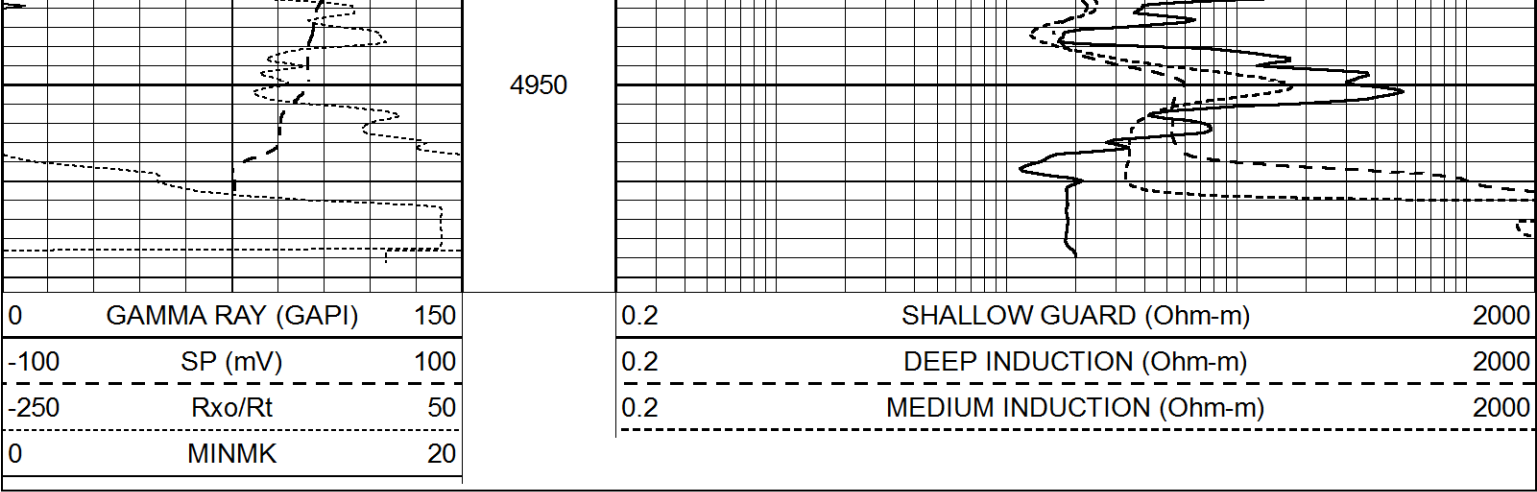
4750

4800

4850

4900





Calibration Report									
Database File		8479ddn.db							
Dataset Pathname		pass4.1M							
Dataset Creation		Mon Apr 01 21:44:38 2024							
Dual Induction Calibration Report									
		Serial-Model:			PROBE8-DILG				
		Surface Cal Performed:			Mon Apr 01 20:45:17 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	0.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	-10.000	
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 14:54:40 2022				

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 Mar 20 11:08:27 2024

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:	0.3000	GAPI/cps
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