



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		ANDERSON ENERGY, INC.	
Well	LEIS #1		
Field	WILDCAT		
County	SEDGWICK	State	KANSAS
Location:	API # : 15-173-21027-0000		Other Services CDL/CNL/PE MEL/SONIC
Permanent Datum		GROUND LEVEL	Elevation 1284
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	Elevation K.B. 1293 D.F. 1291 G.L. 1284
Date	6/8/13		
Run Number	ONE		
Depth Driller	3900		
Depth Logger	3895		
Bottom Logged Interval	3893		
Top Log Interval	00		
Casing Driller	8 5/8"@318'		13 3/8"@125'
Casing Logger	320		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,600 PPM	
Density / Viscosity	9.4/44		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.850@95F		
Rmf @ Meas. Temp	.638@95F		
Rmc @ Meas. Temp	1.02@95F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	115F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	11:45 A.M.		
Maximum Recorded Temperature	115F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEN LeBLANC		

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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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
WICHITA, KS. HWY 54 TO "MERIDIAN", 10S. TO 87TH ST., 1 1/2W., S. INTO



NABORS
COMPLETION
& PRODUCTION

MAIN SECTION

Database File:

010920pe.db

Dataset Pathname:

pass4.5

Presentation Format:

dil2

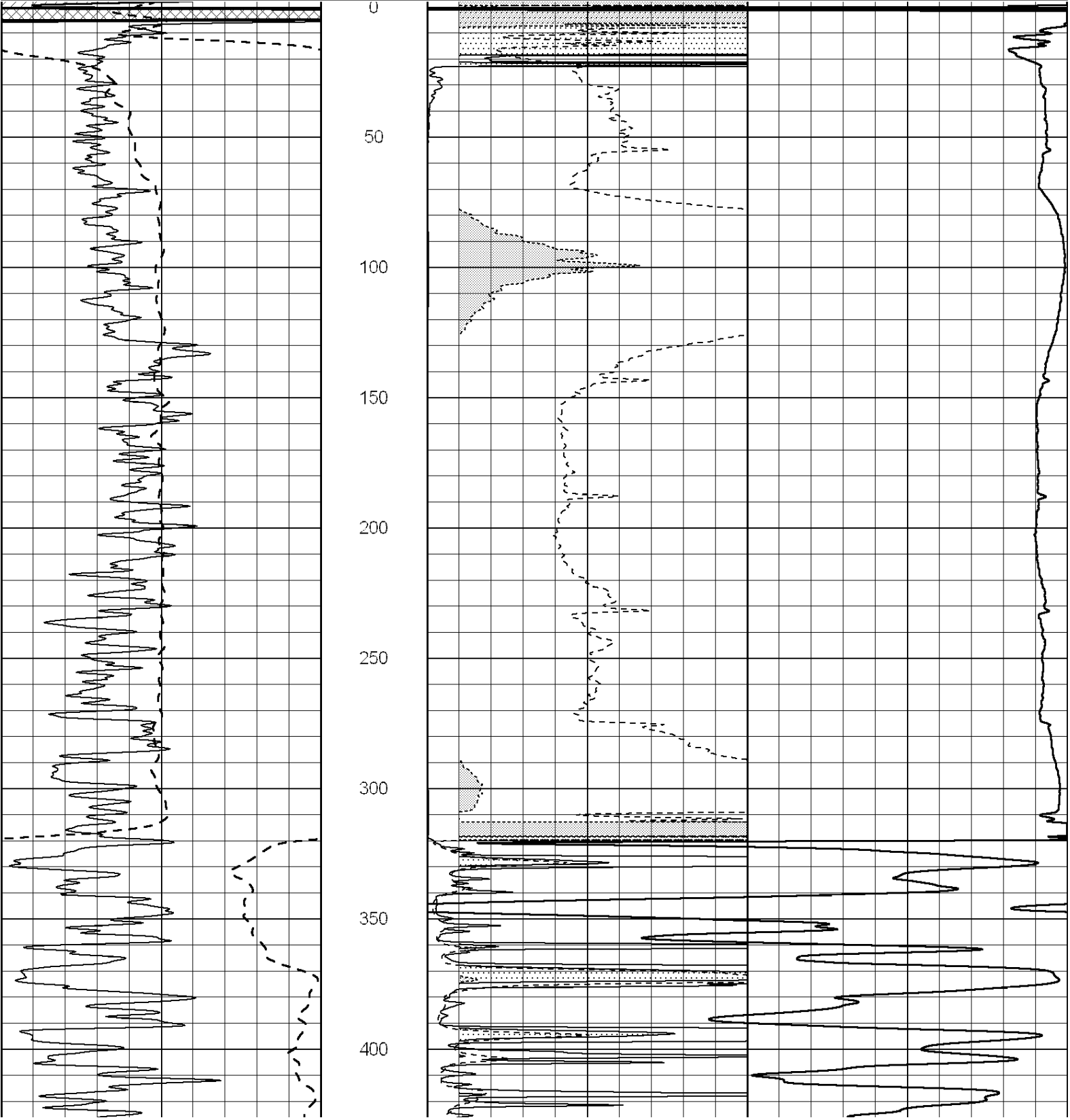
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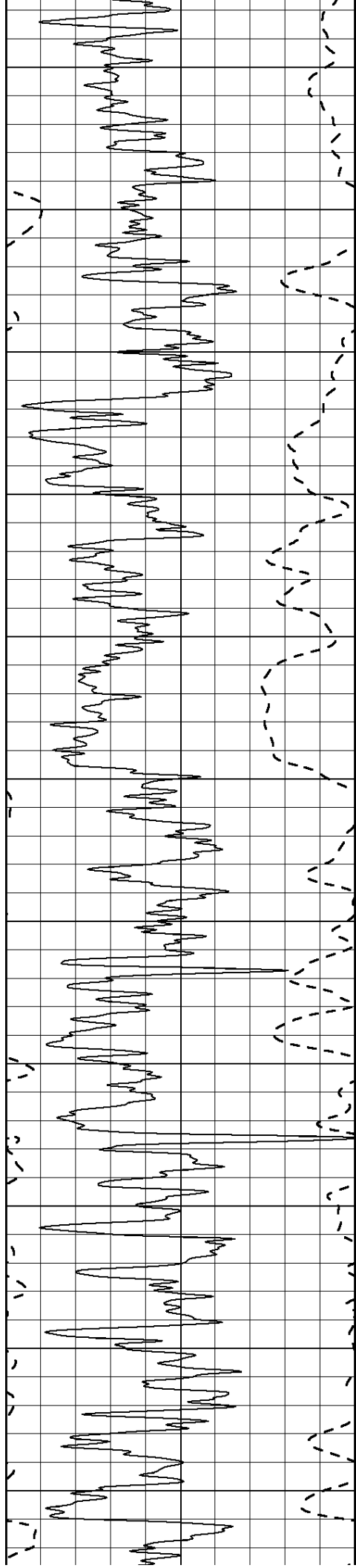
Sat Jun 08 12:45:47 2013 by Calc SOC 120430

Charted by:

Depth in Feet scaled 1:600

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





450

500

550

600

650

700

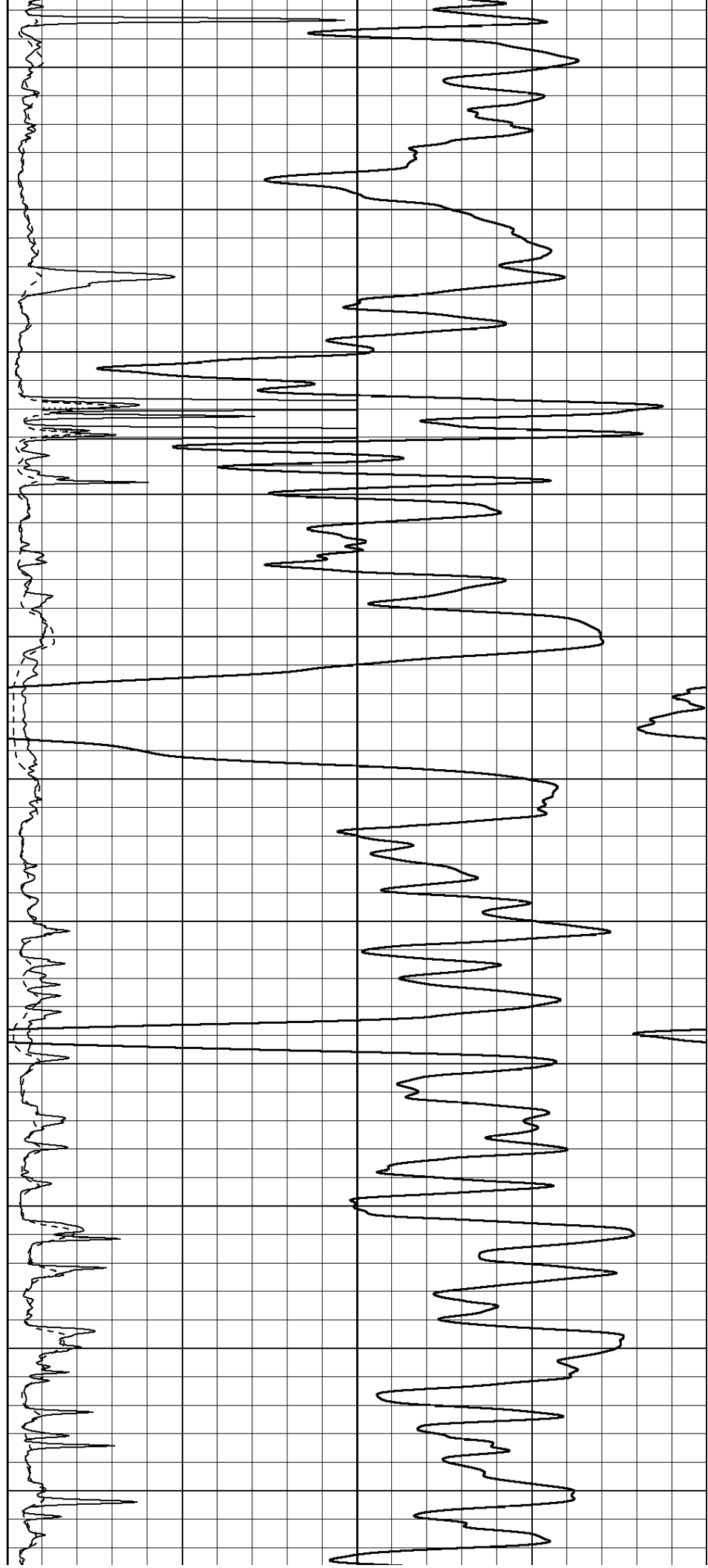
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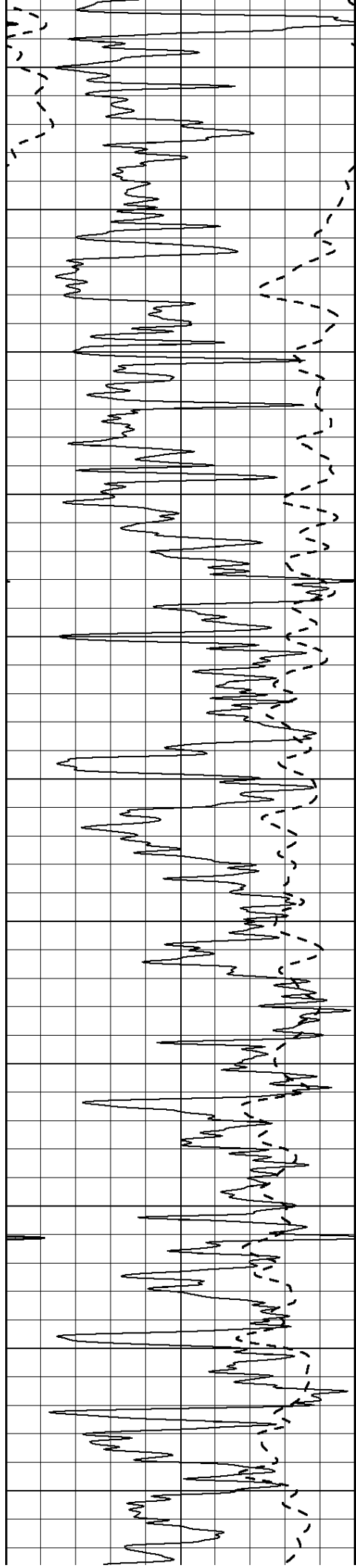
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850

900

950





1000

1050

1100

1150

1200

1250

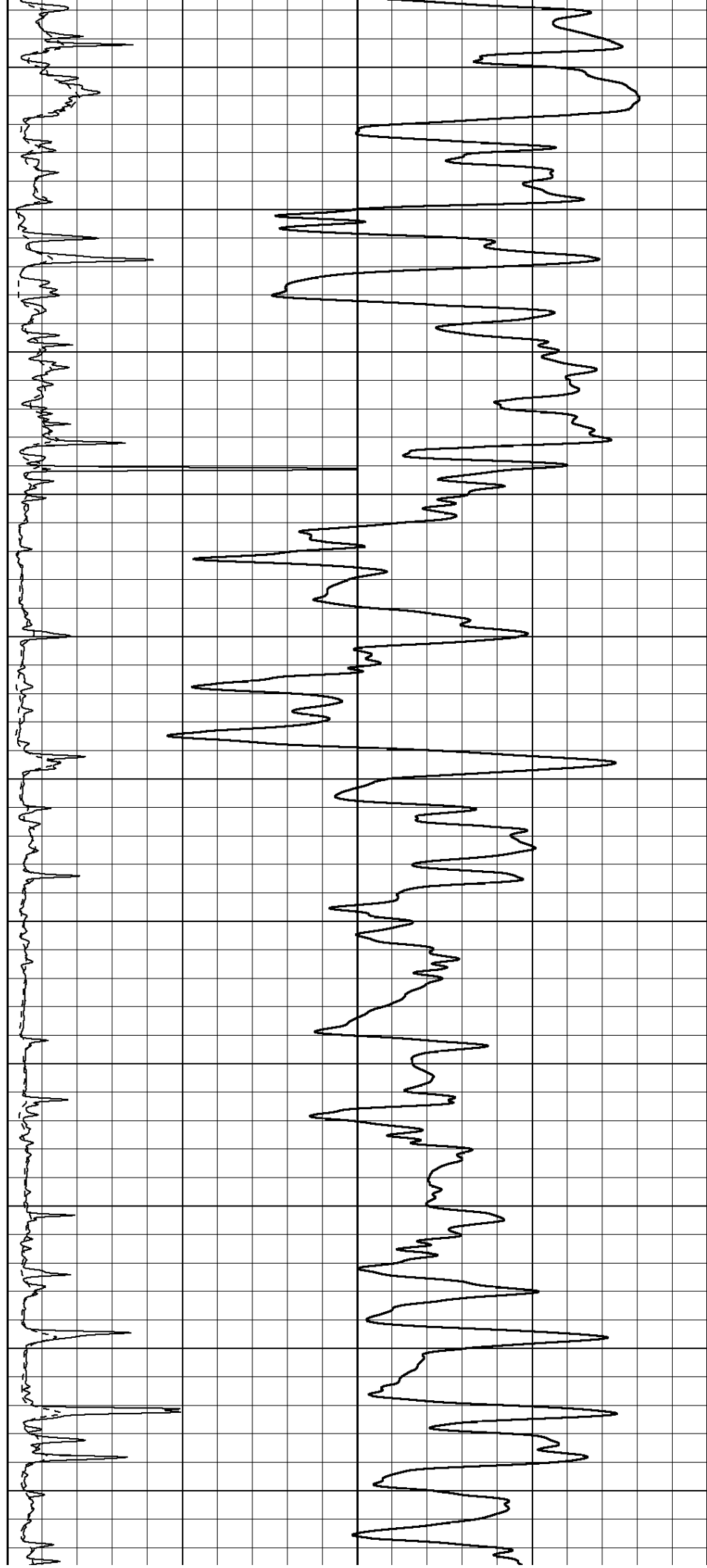
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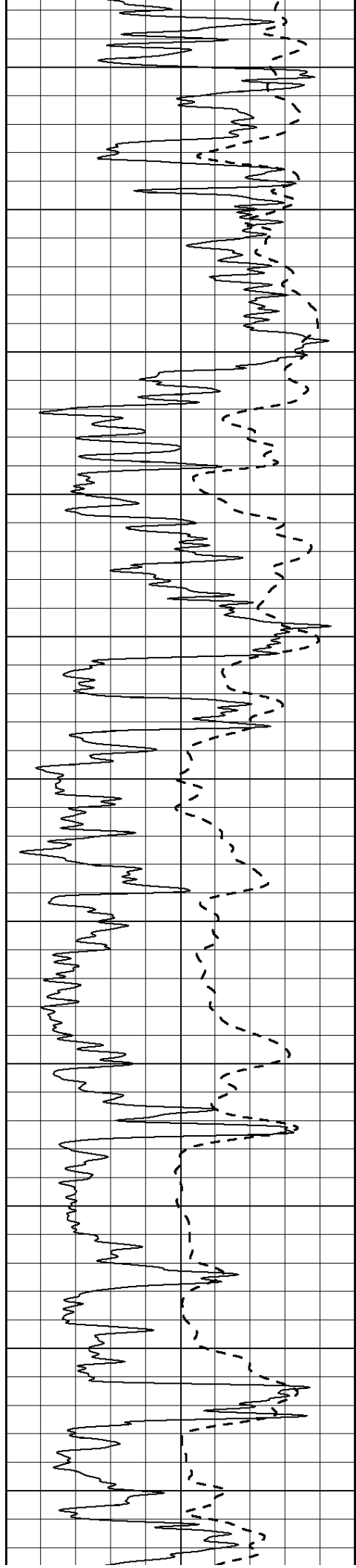
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1400

1450

1500





1550

1600

1650

1700

1750

1800

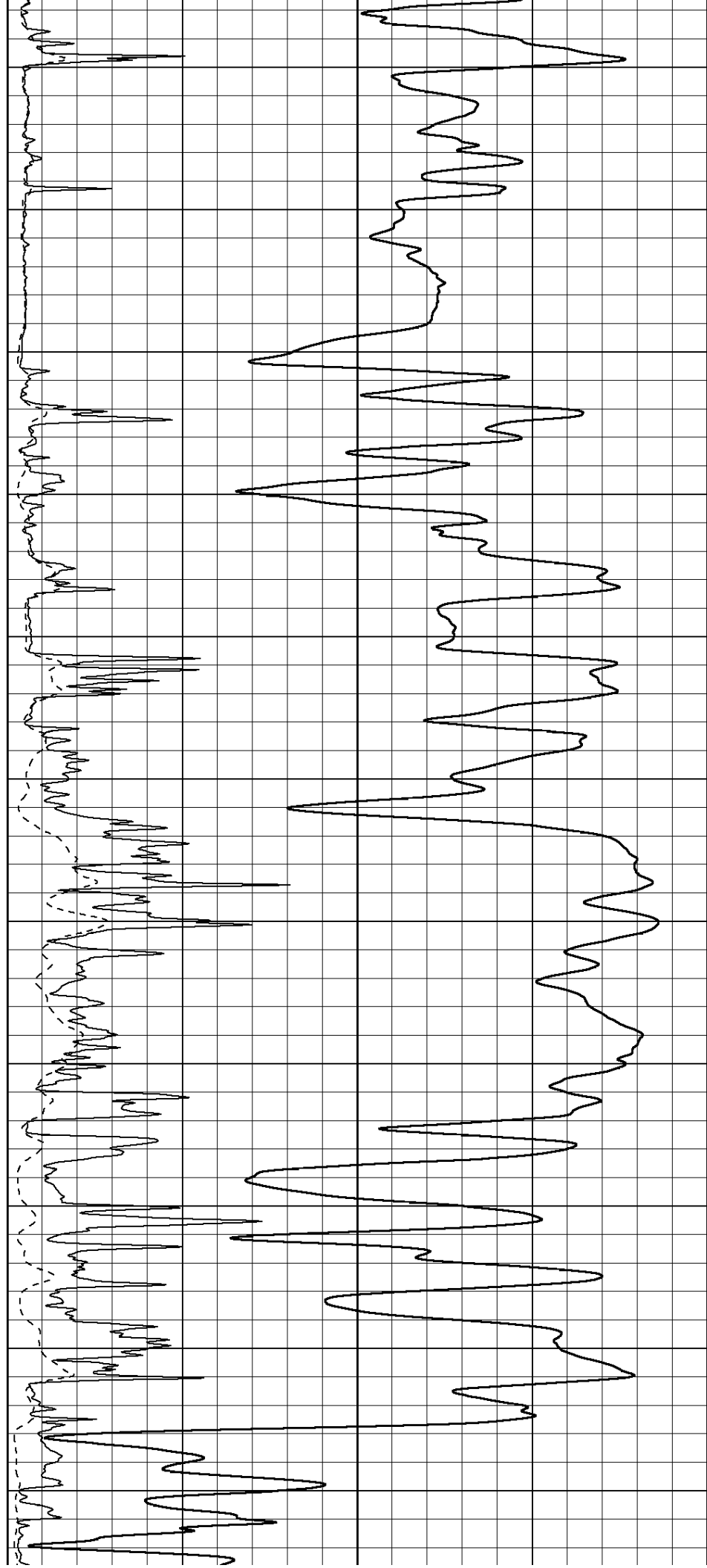
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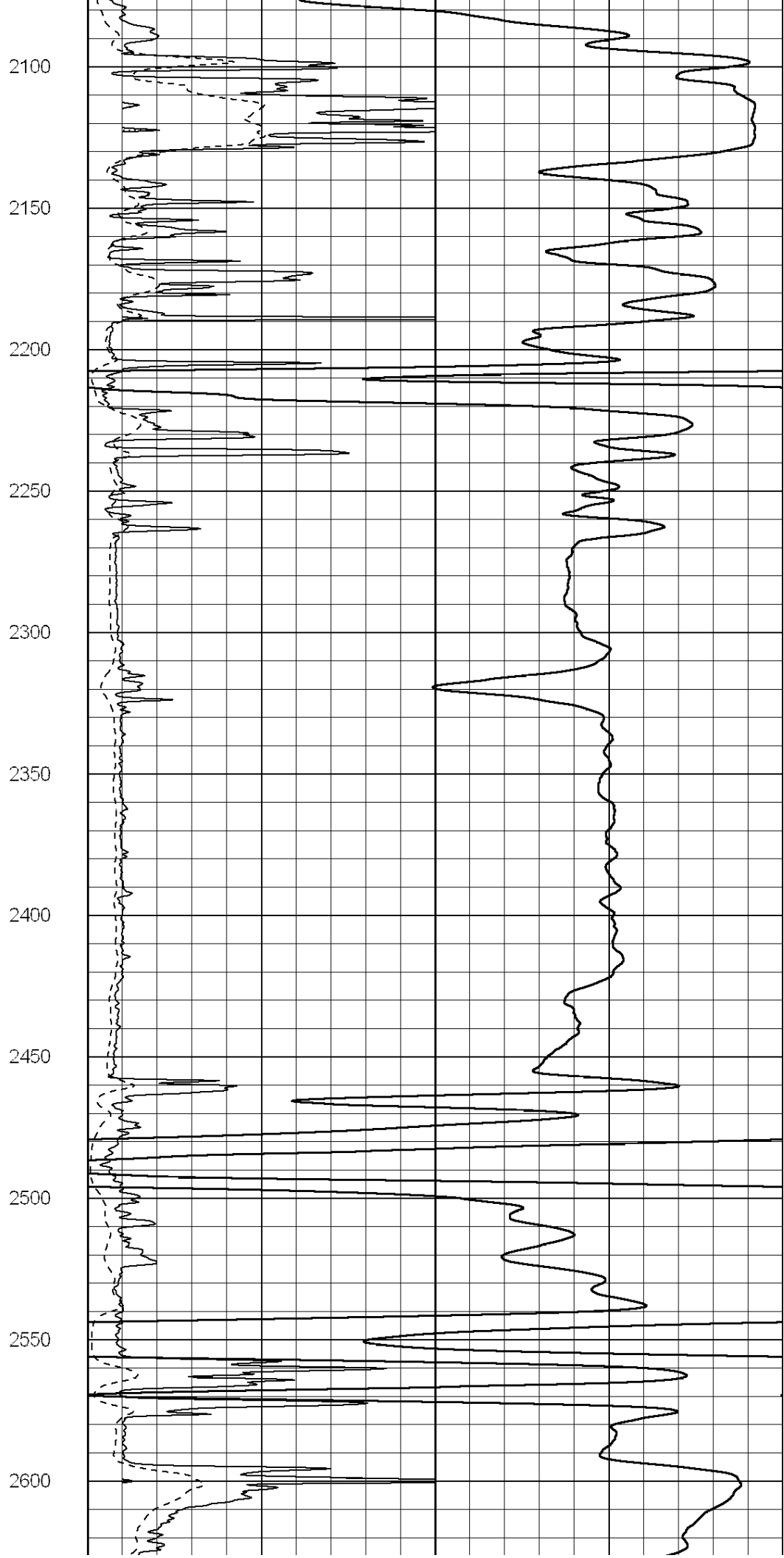
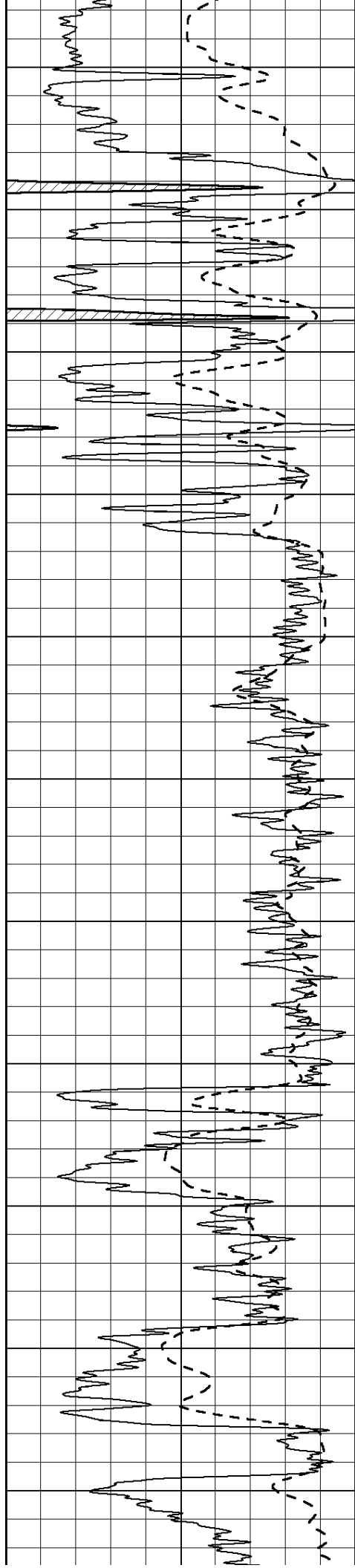
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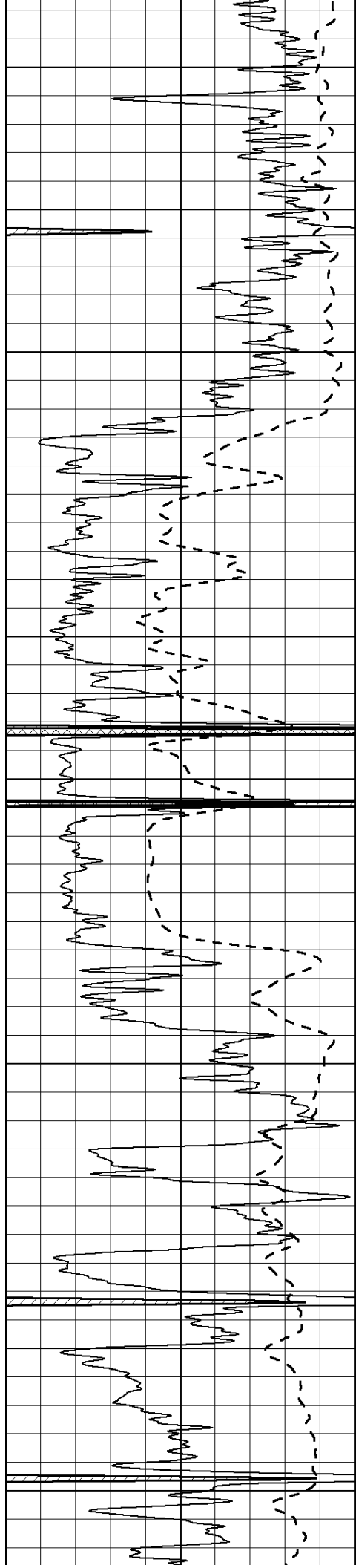
1950

2000

2050







2650

2700

2750

2800

2850

2900

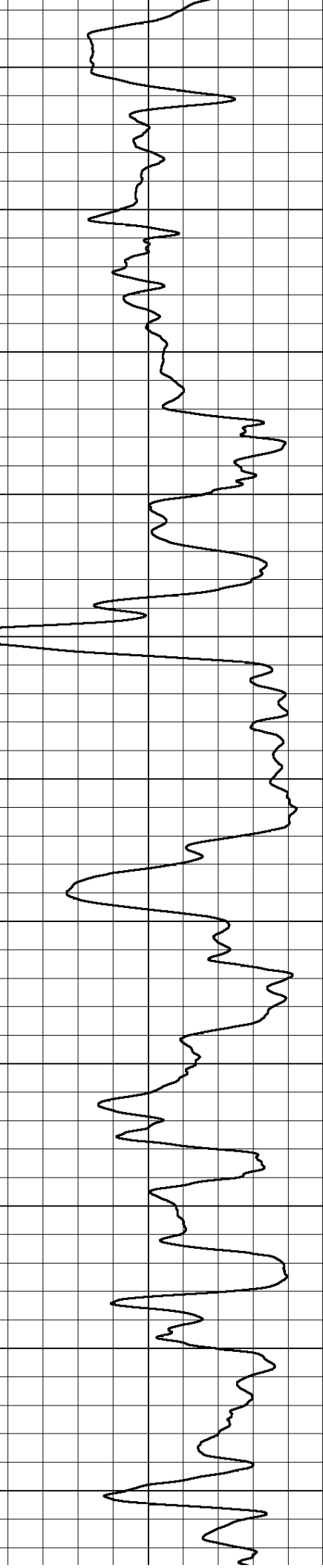
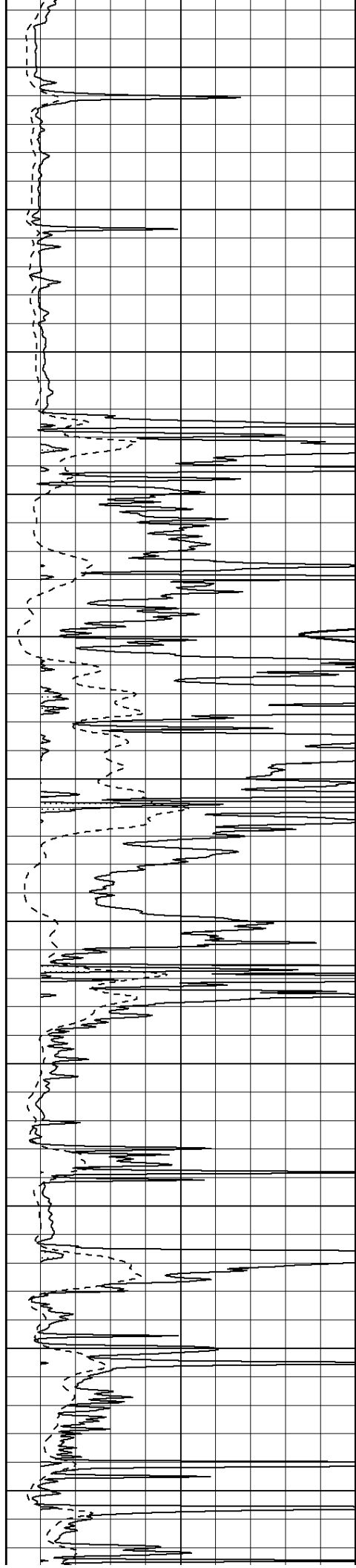
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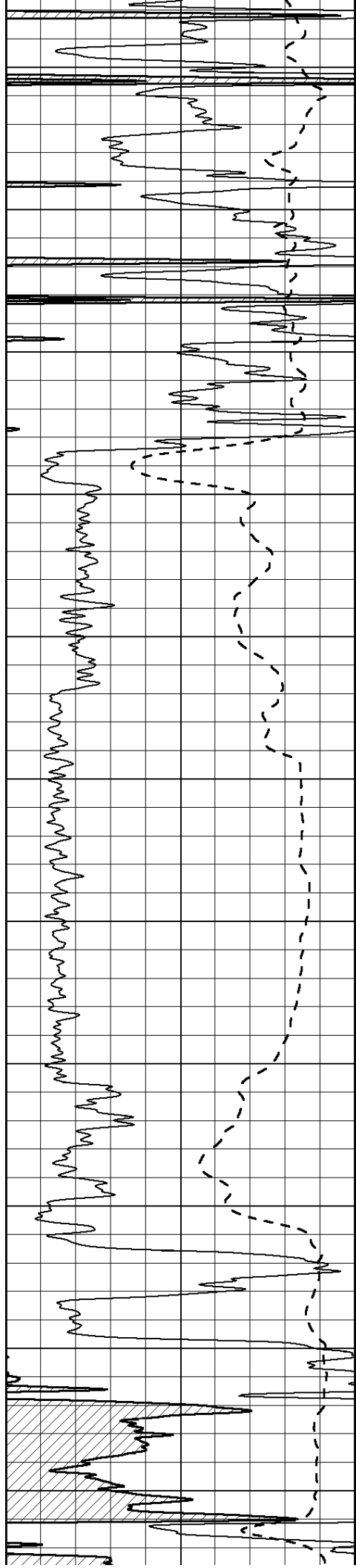
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3050

3100

3150





3200

3250

3300

3350

3400

3450

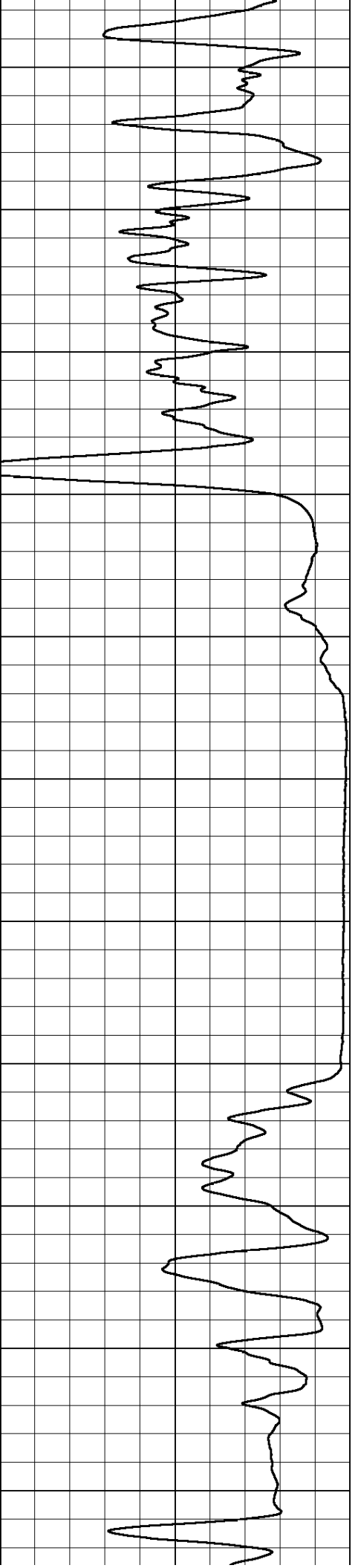
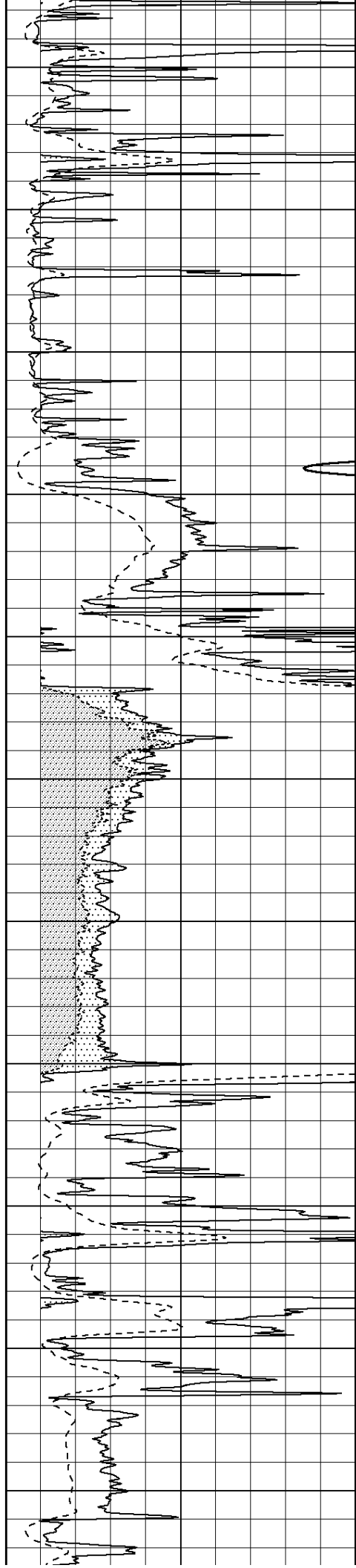
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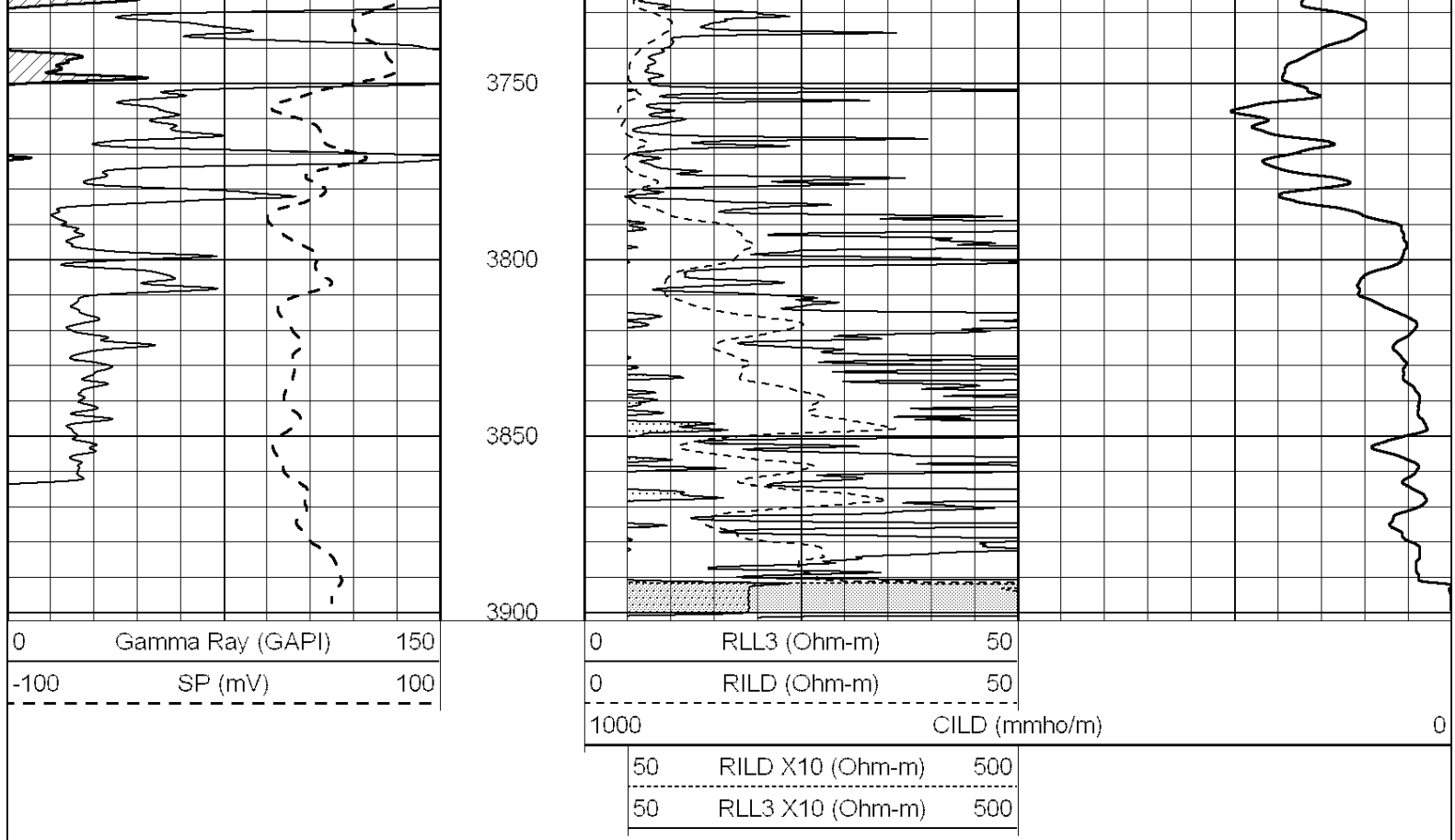
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3600

3650

3700



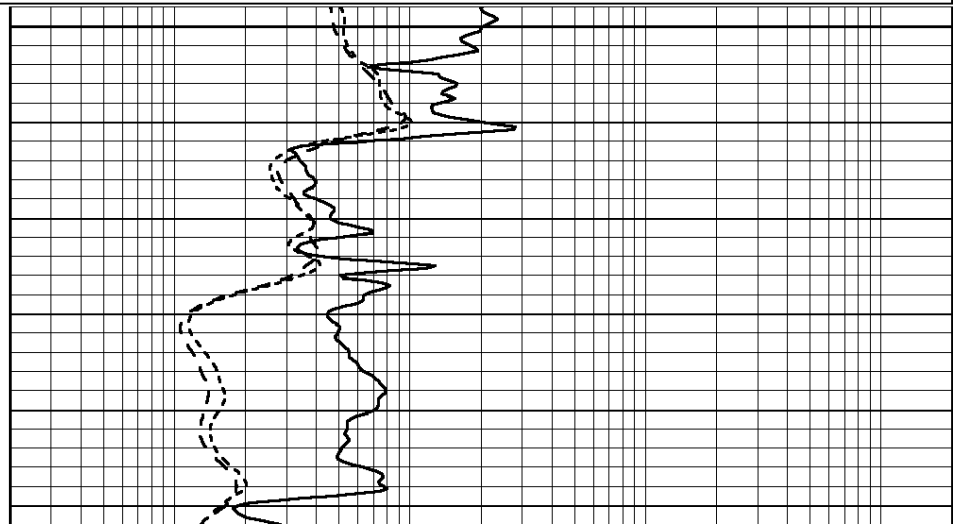
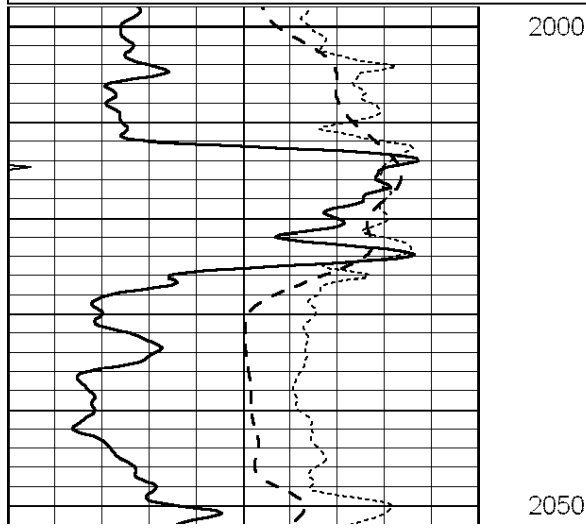


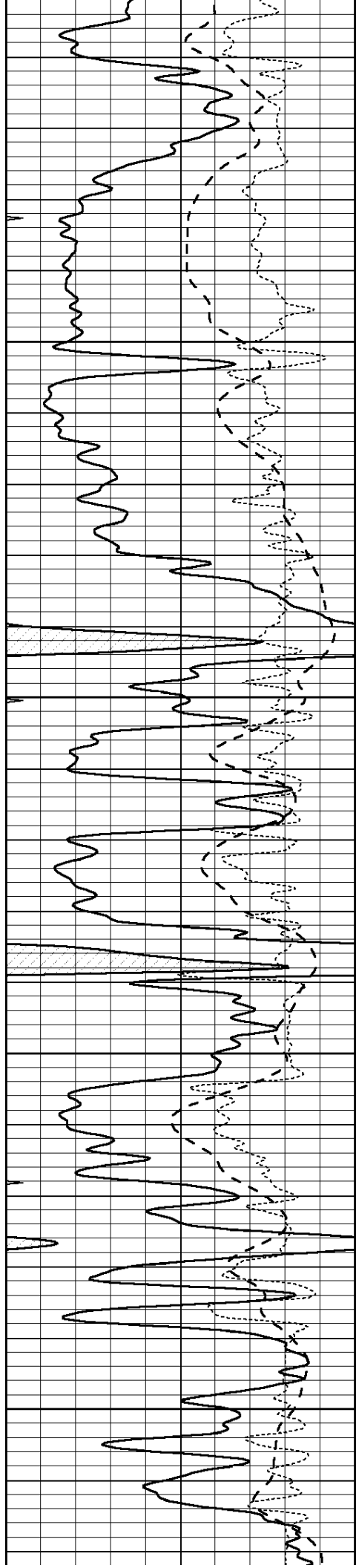
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MAIN SECTION

Database File: 010920pe.db
Dataset Pathname: pass4.5
Presentation Format: dil
Dataset Creation: Sat Jun 08 12:45:47 2013 by Calc SOC 120430
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			



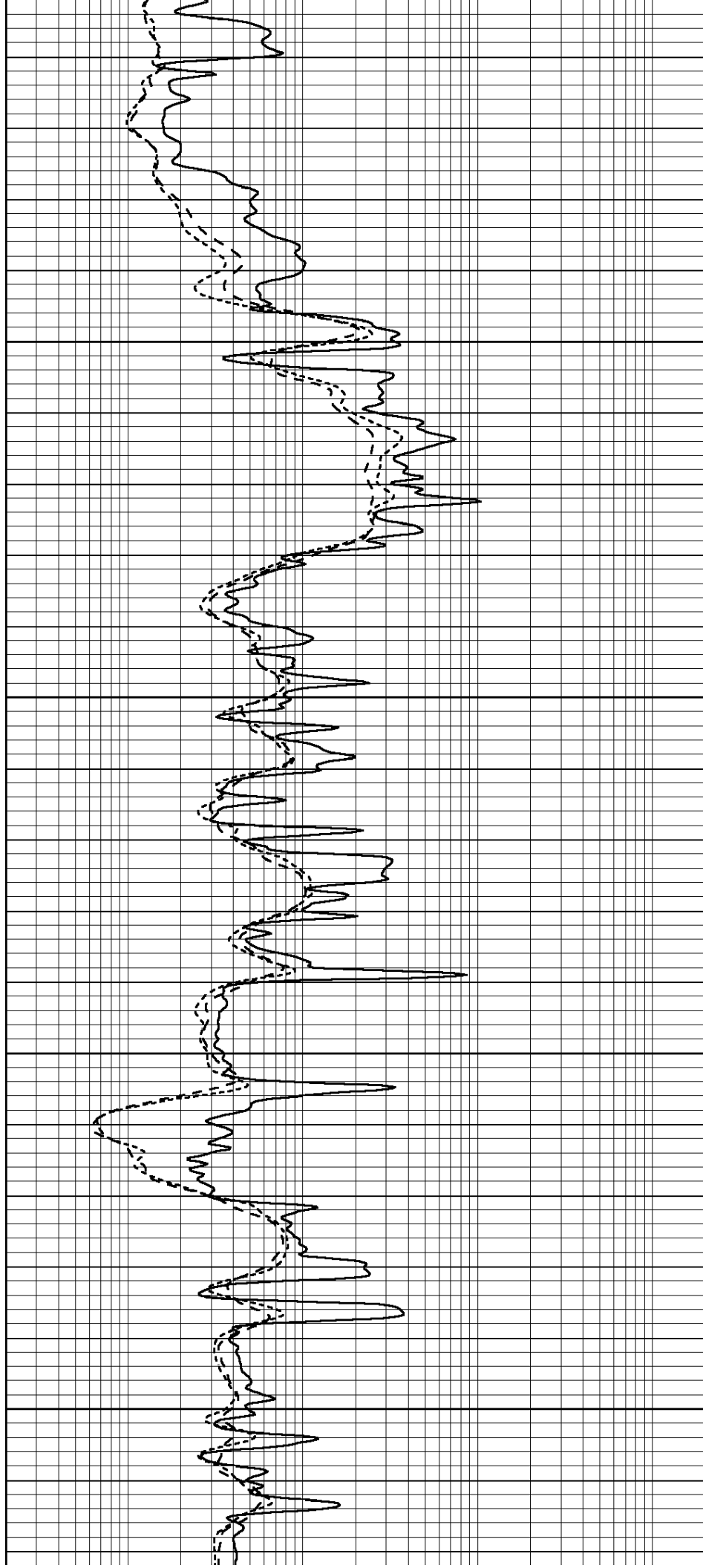


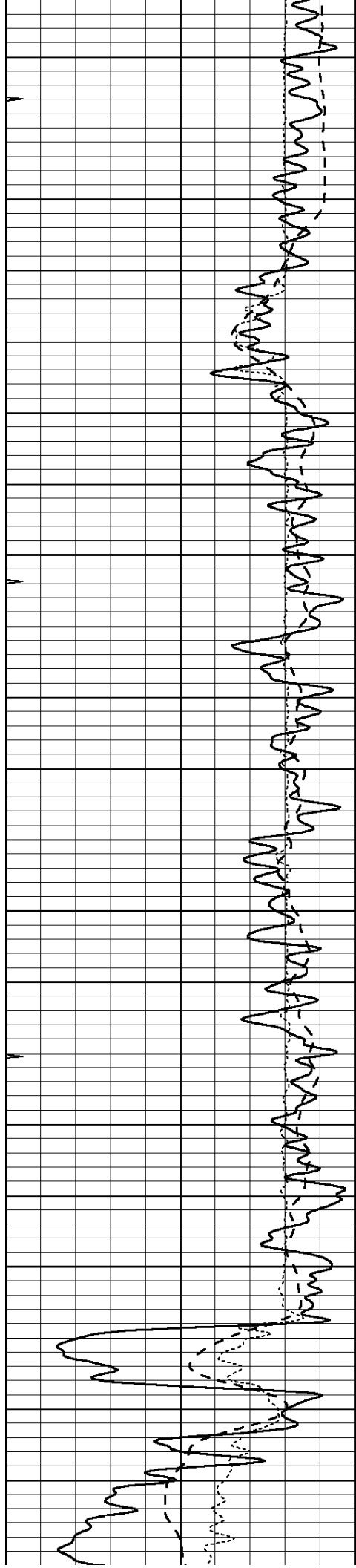
2100

2150

2200

2250



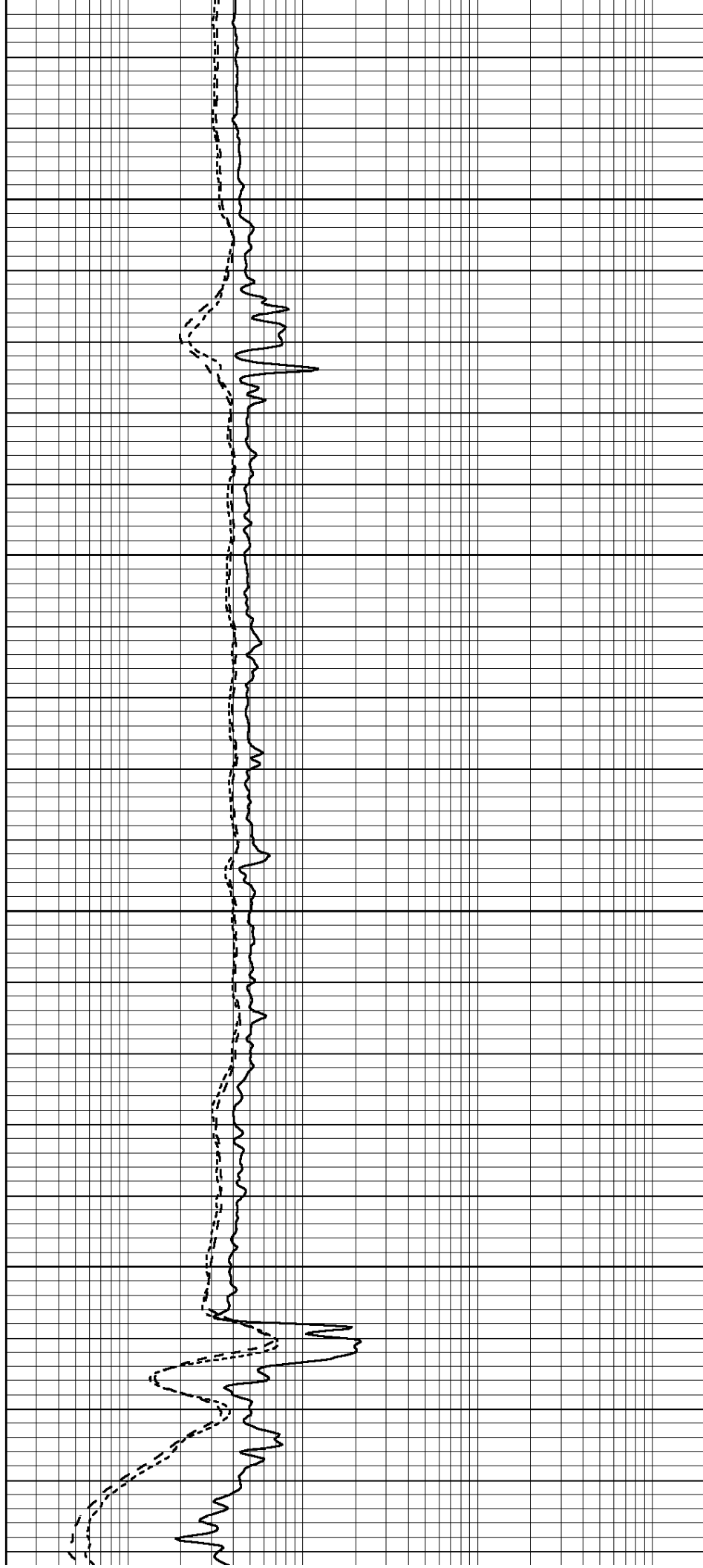


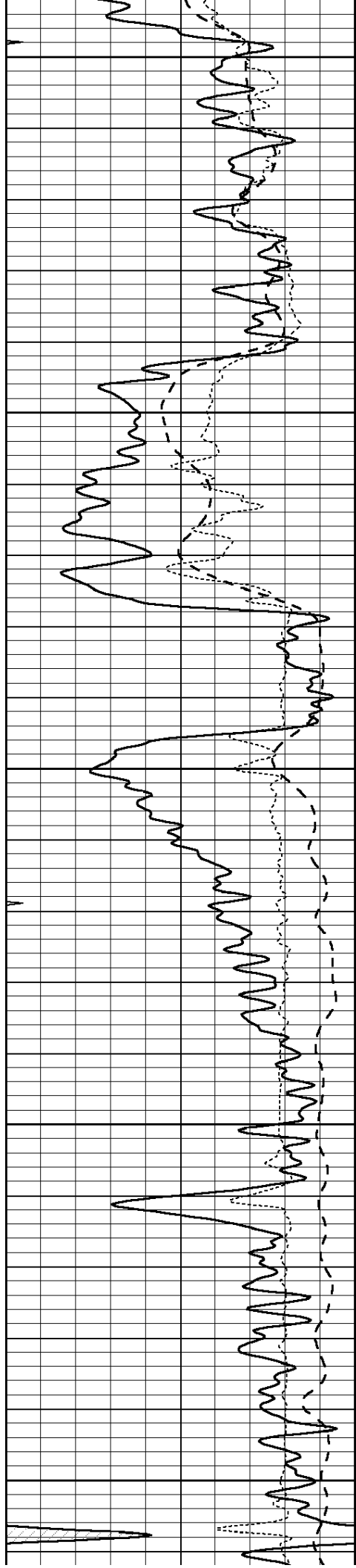
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2350

2400

2450





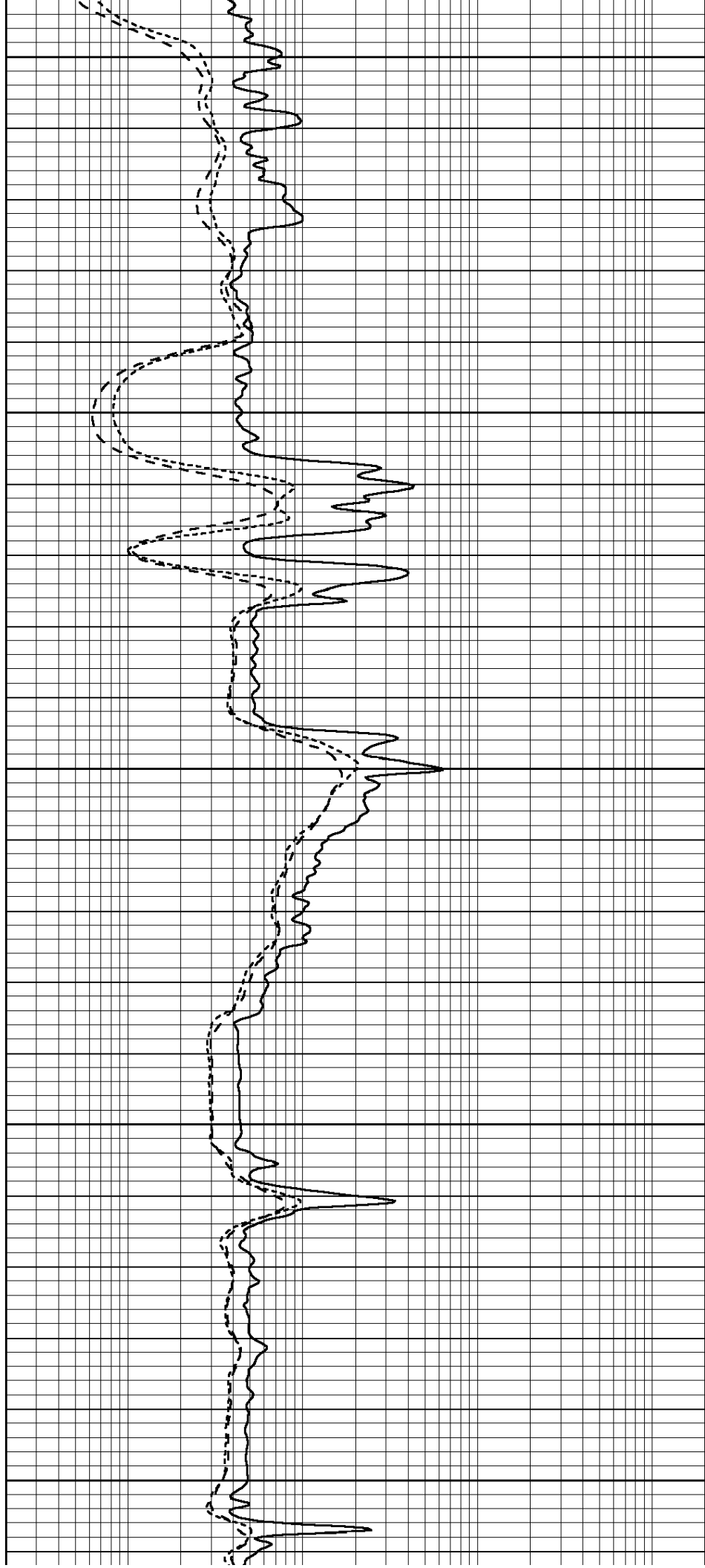
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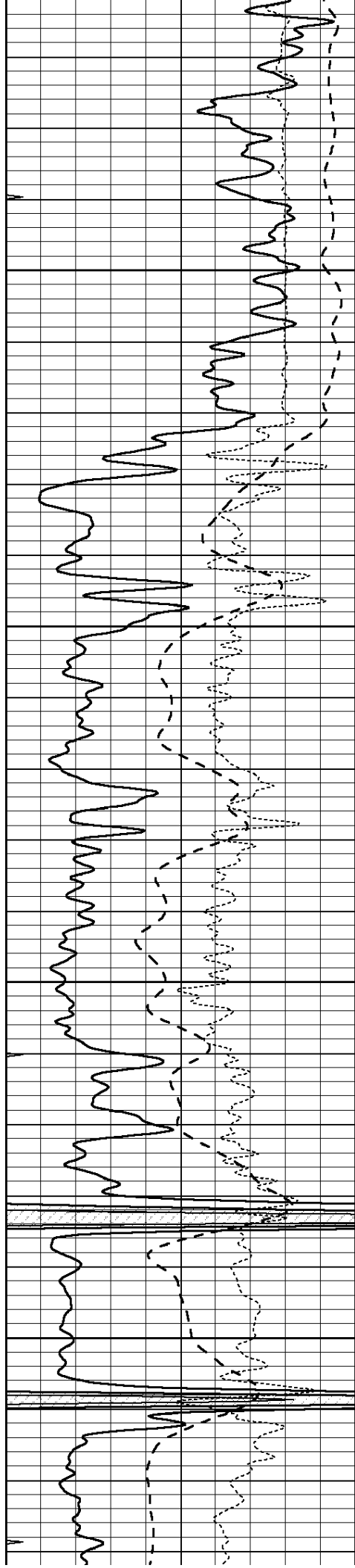
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2600

2650

2700



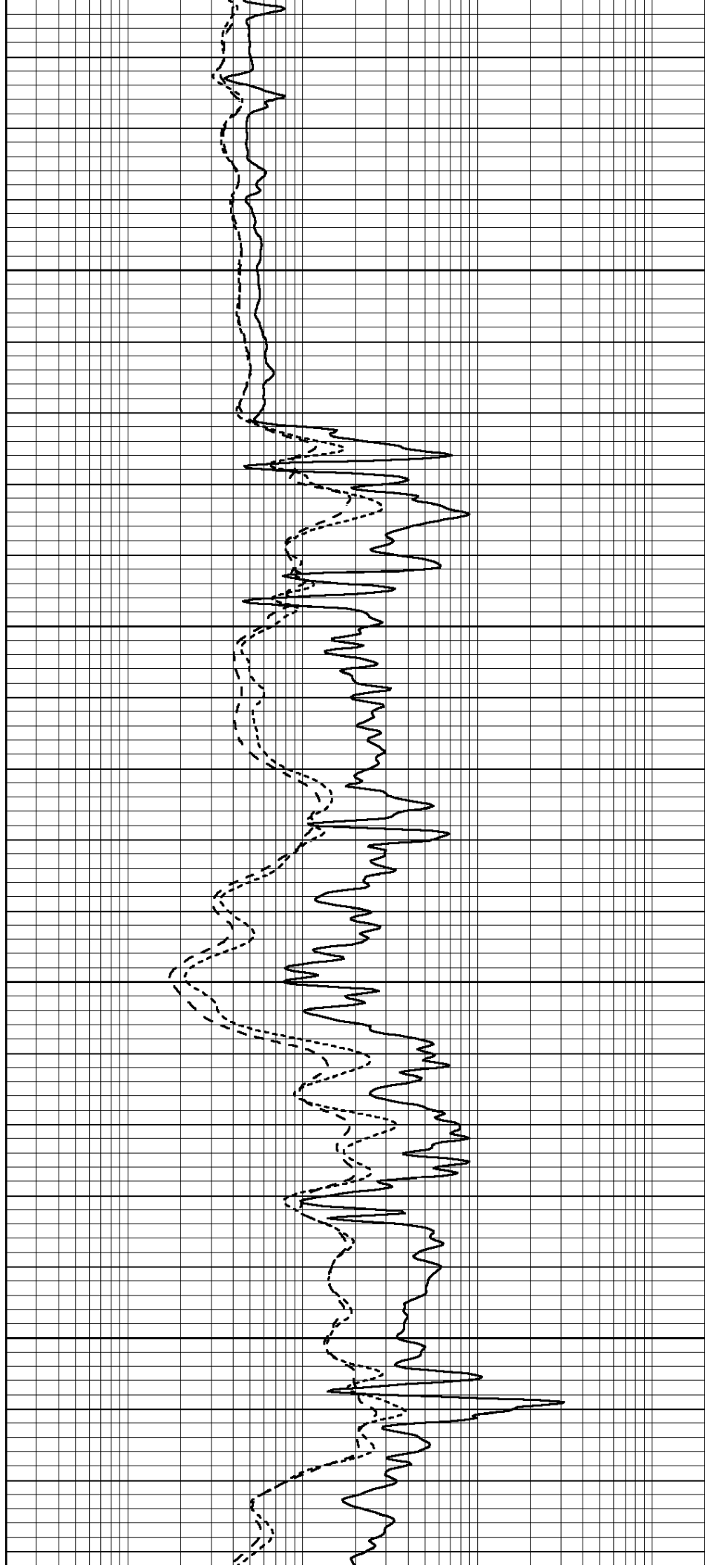


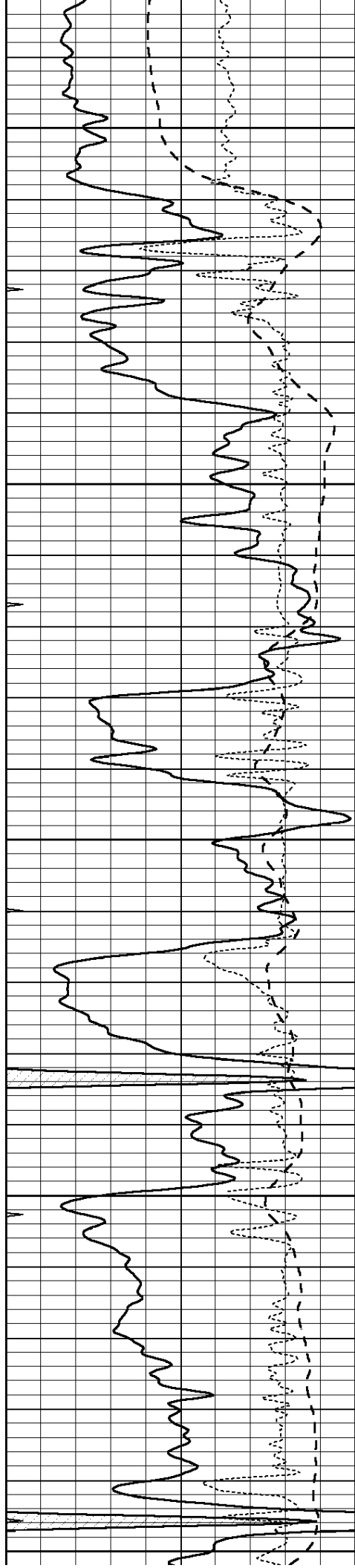
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2850

2900





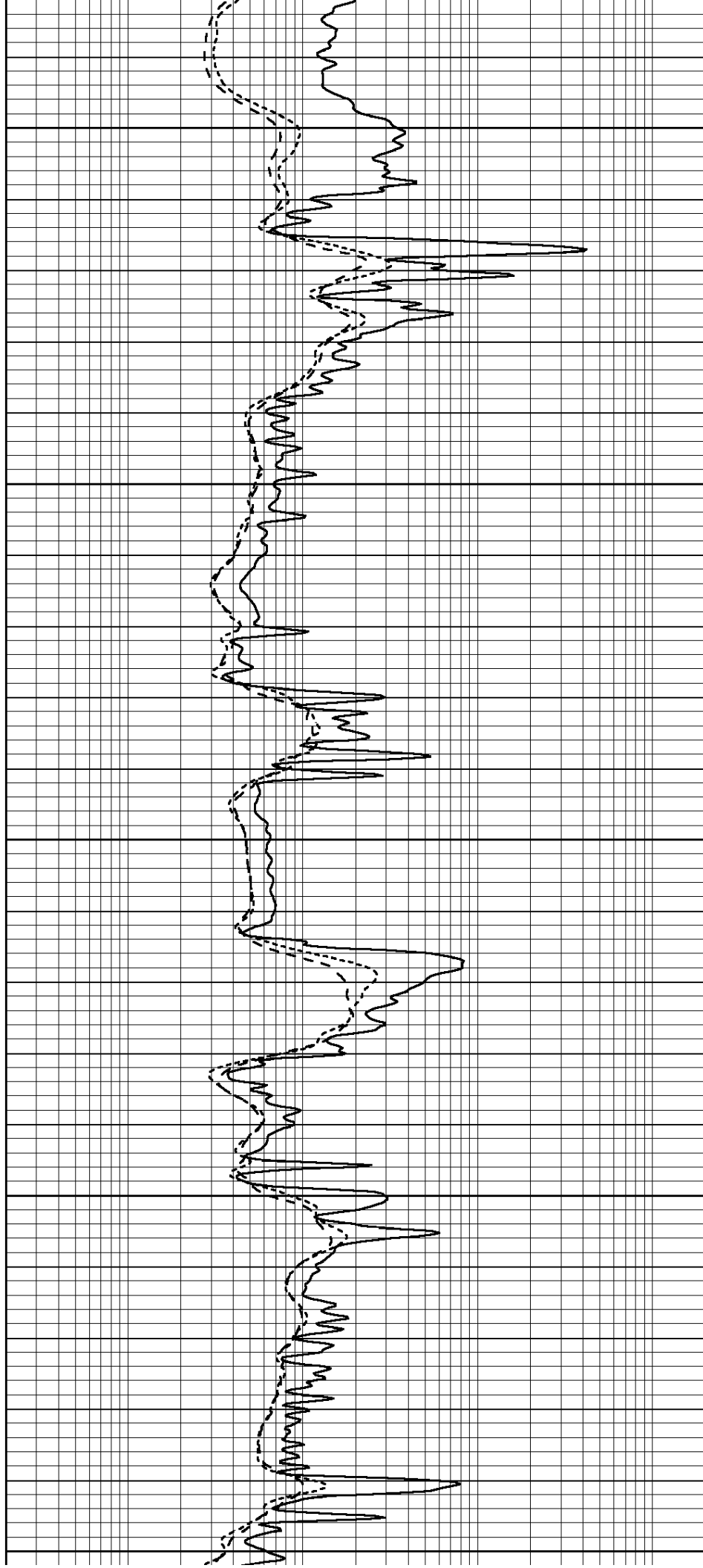
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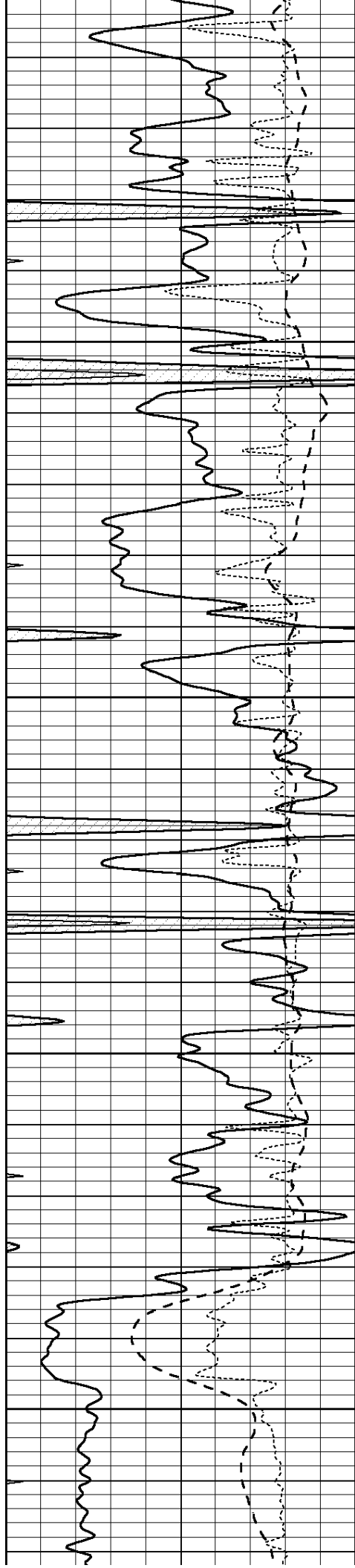
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3050

3100

3150



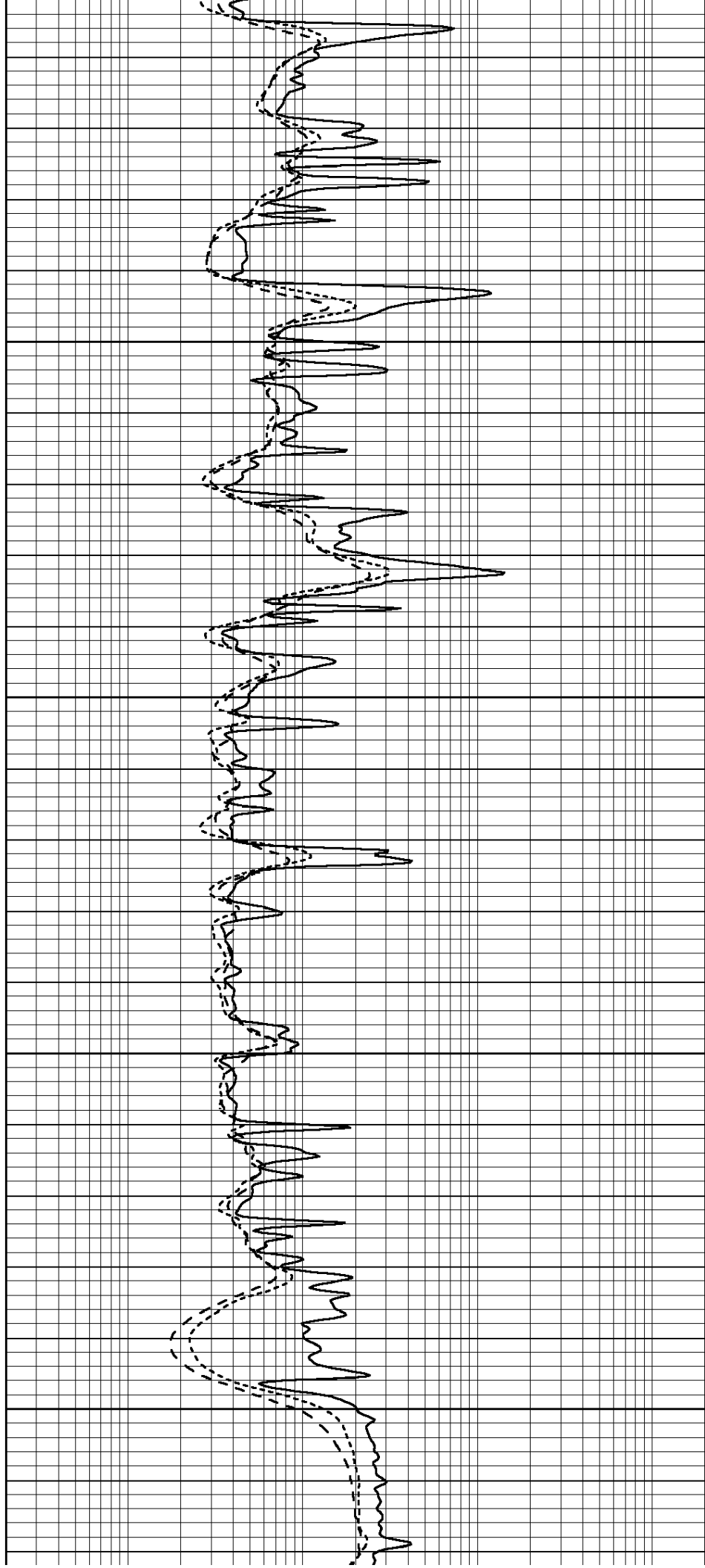


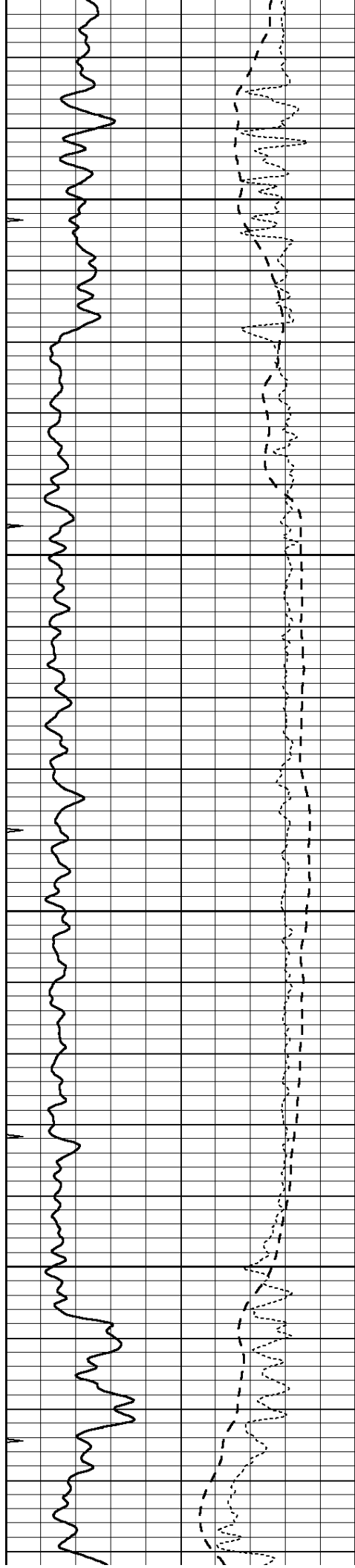
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3250

3300

3350



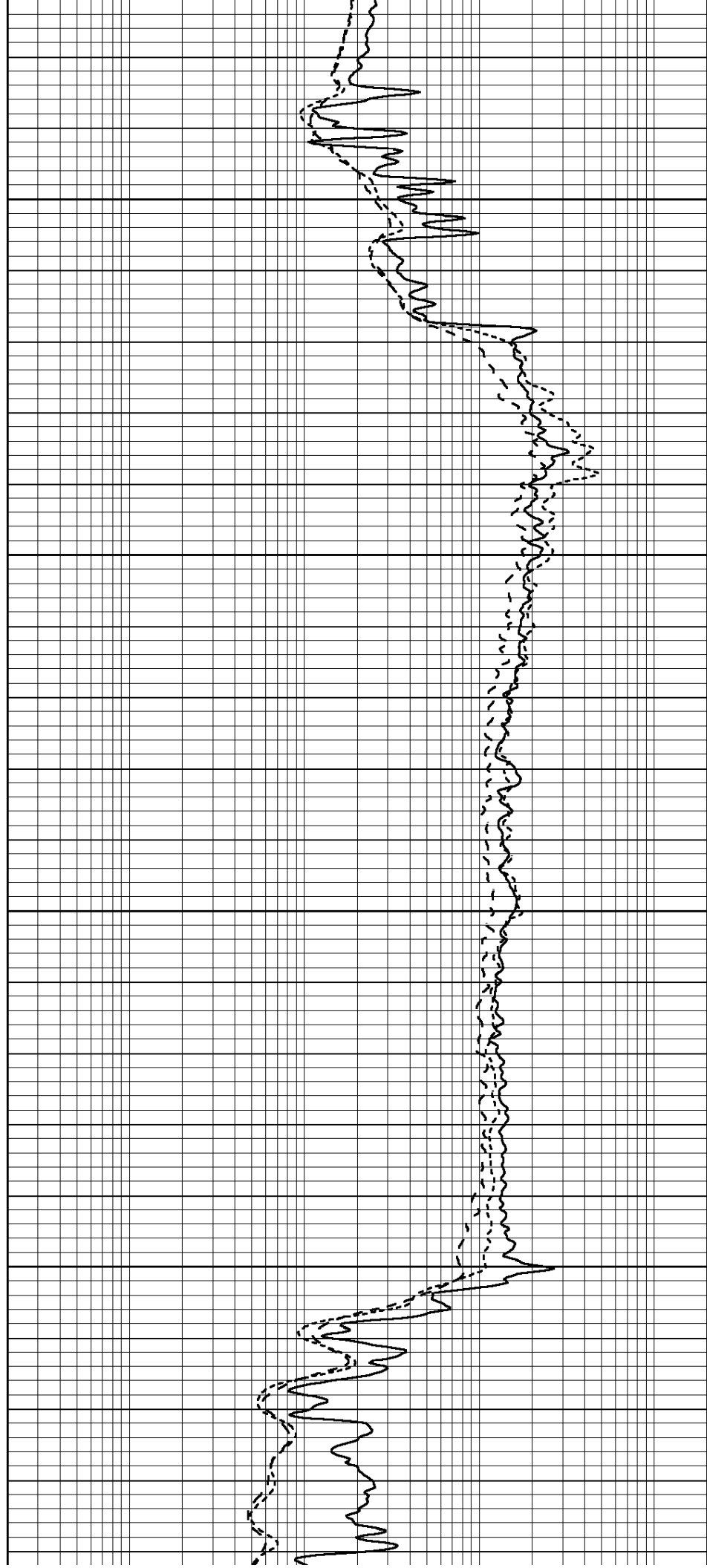


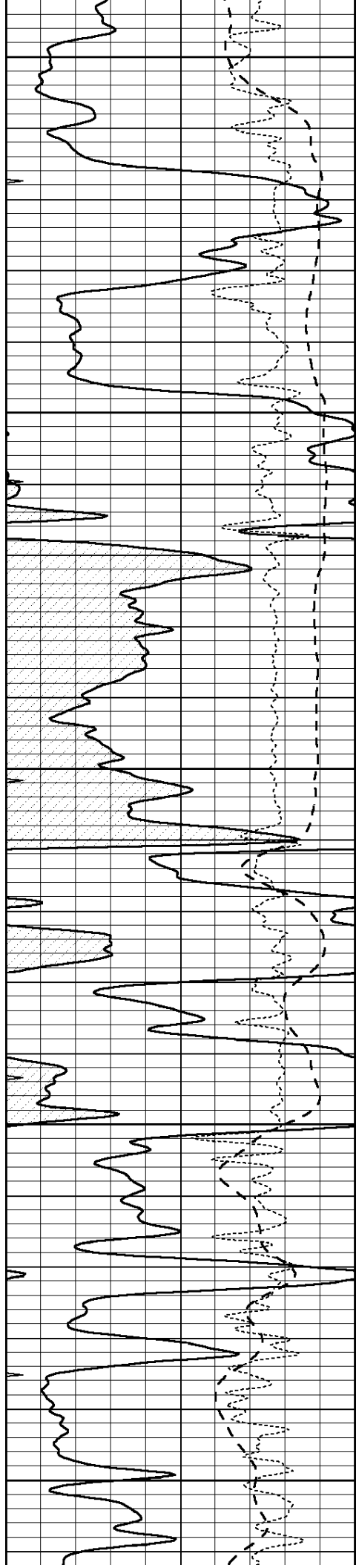
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3500

3550





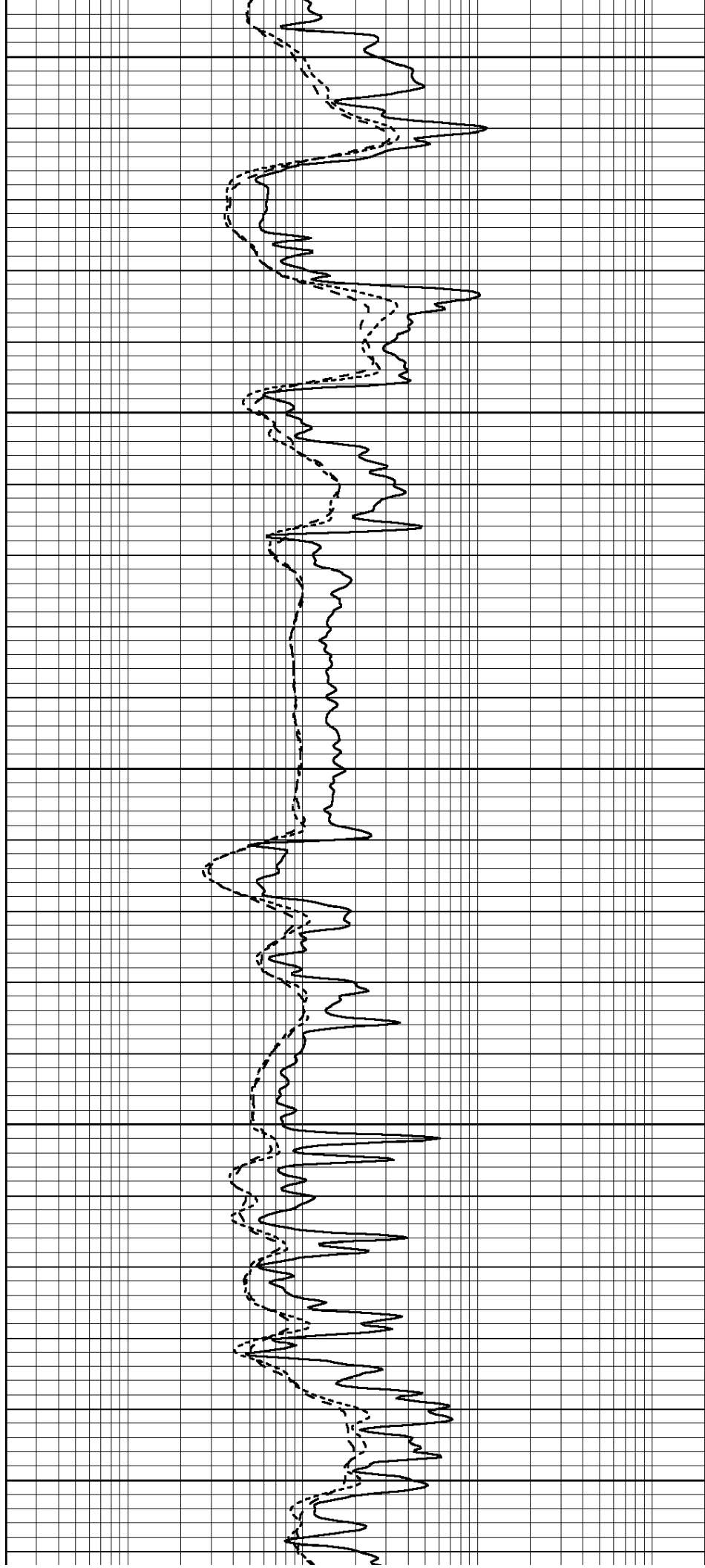
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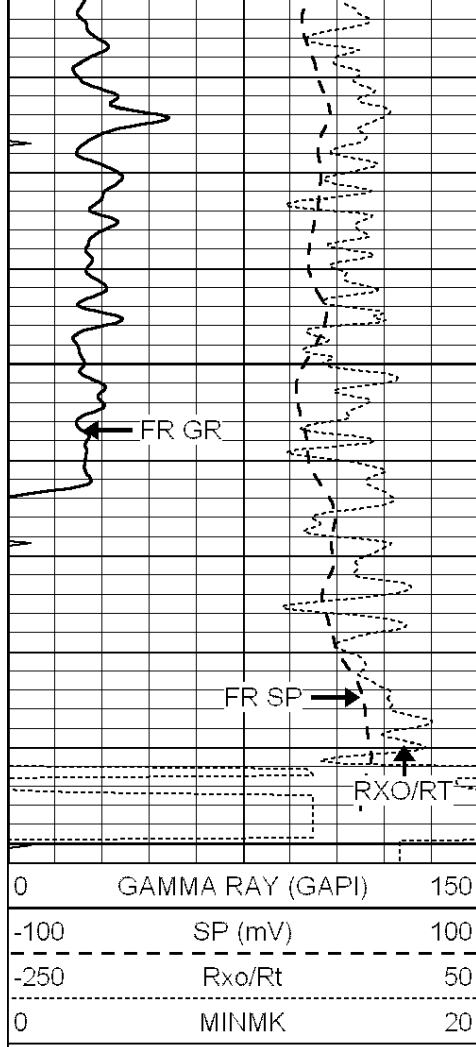
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3800

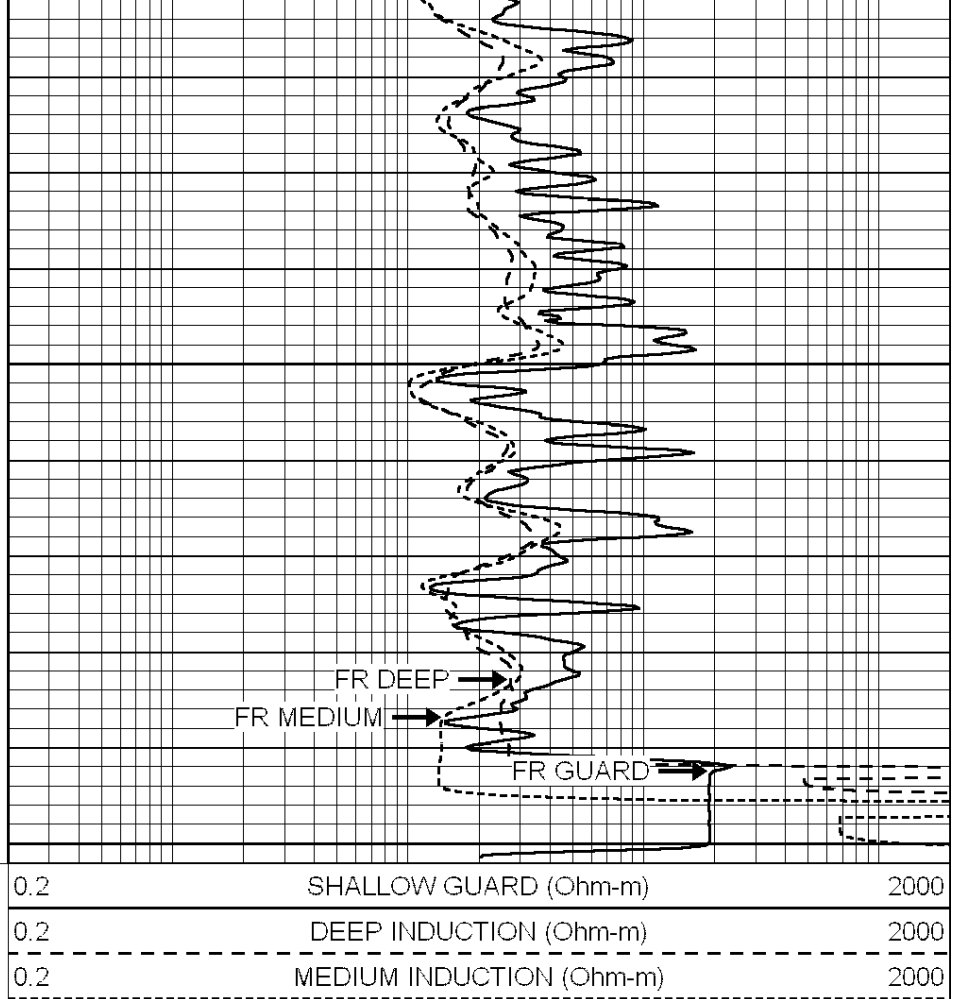




3850

LTD 3895

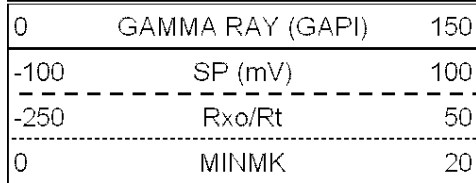
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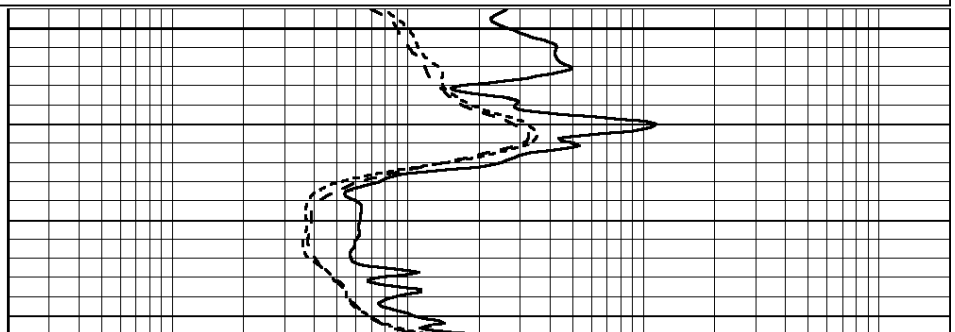
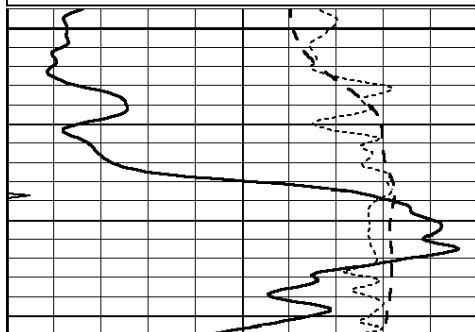
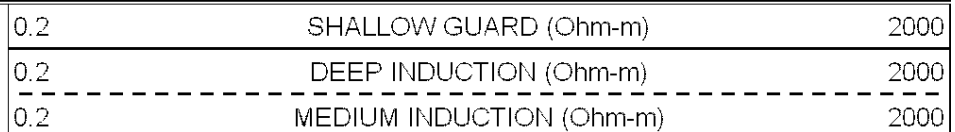
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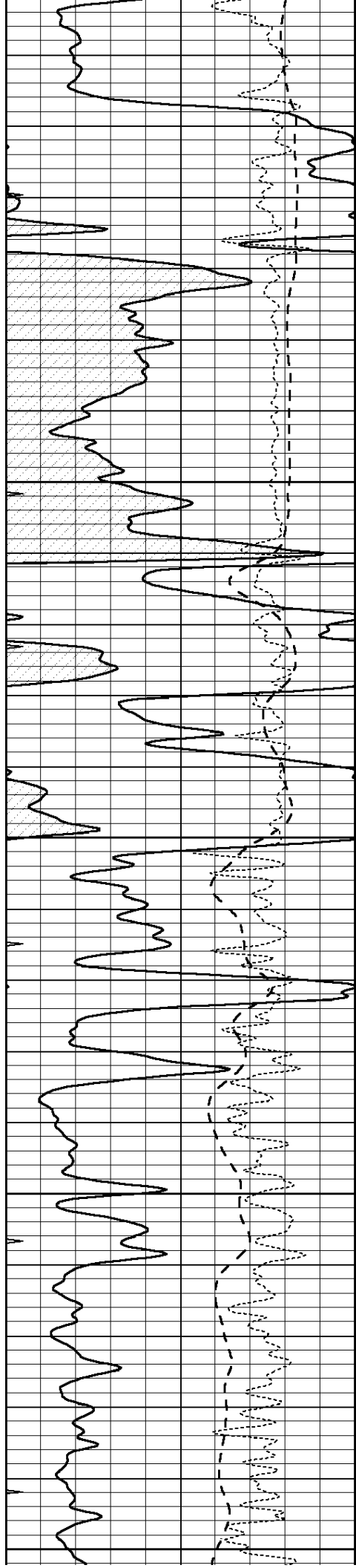
REPEAT SECTION

Database File: 010920pe.db
Dataset Pathname: pass3.2
Presentation Format: dil
Dataset Creation: Sat Jun 08 12:34:39 2013
Charted by: Depth in Feet scaled 1:240



3600





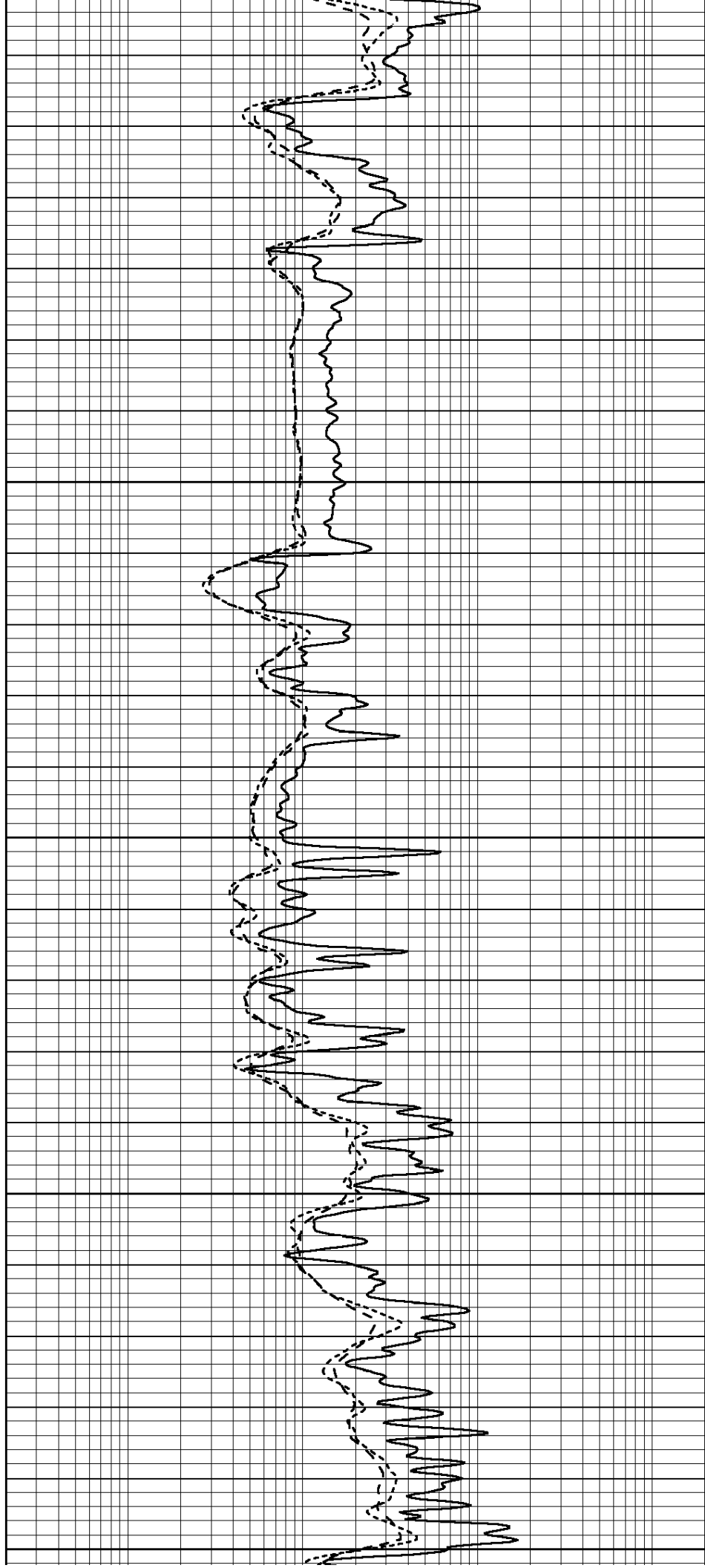
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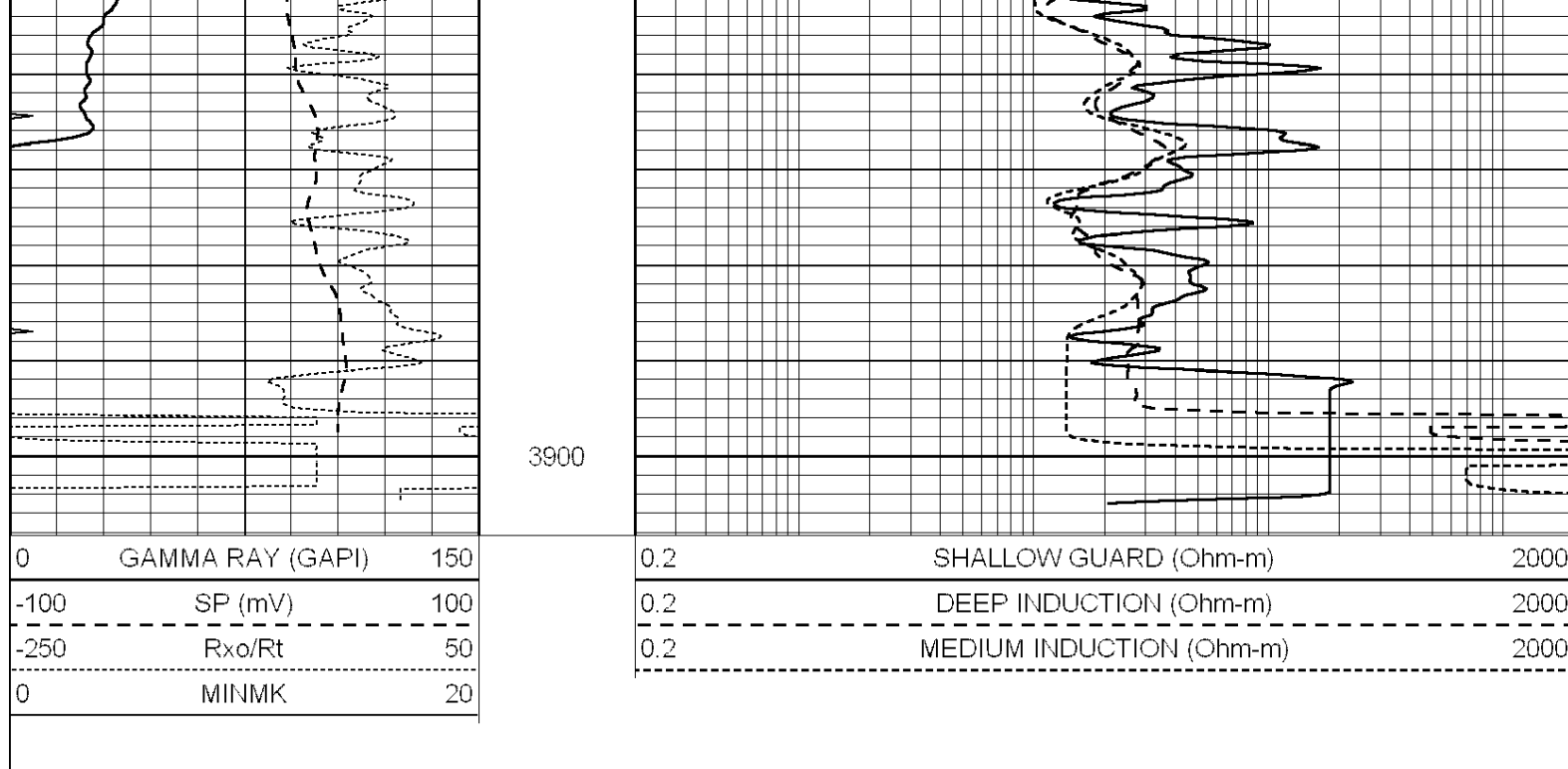
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3750

3800

3850





Calibration Report									
Database File:		010920pe.db							
Dataset Pathname:		pass4.5							
Dataset Creation:		Sat Jun 08 12:45:47 2013 by Calc SOC 120430							
Dual Induction Calibration Report									
Serial-Model:		PROBE9-DILG							
Surface Cal Performed:		Sat Jun 08 11:36:08 2013							
Downhole Cal Performed:		Mon Jul 28 12:02:56 2008							
After Survey Verification Performed:		Mon Jul 28 12:02:56 2008							
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	-7.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	640.000	-13.000	
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: 006 Model: PRB

Master Calibration			Performed Sun Aug 15 09:48:41 2010					
	Background		Magnesium		Aluminum		Sandstone	
Window 1	1686.6		11612.8		3932.0		12718.8	cps
Window 2	1531.4		9204.7		3267.8		9851.9	cps
Window 3	1198.3		4733.6		1952.5		4920.6	cps
Window 4	317.3		321.2		325.9		303.6	cps
Long Space	0.0		7673.3		1736.4		8320.4	cps
Short Space	1.7		2548.5		1657.2		2628.8	cps
Rho			1.7100		2.5900		1.3800	g/cc
Pe			0.0000		2.5700		1.5500	
Rib Angle	: 43.8		Rib Slope	: 0.961	Density/Spine Ratio		: 0.569	
Spine Angle	: 73.8		Spine Slope	: 3.453	Spine Intercept		: -18.1	

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:	070808
Tool Model:	Probe

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:	070559	
Tool Model:	OPEN_GR	
Performed:	Mon Apr 15 10:30:52 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.3500	GAPI/cps