

**NABORS****COMPLETION
& PRODUCTION
SERVICES CO.****DUAL INDUCTION
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#2 FRANCE		
Field	WILDCAT		
County	WICHITA		
State	KANSAS		
Location:	API # : 15-203-20292-0000		Other Services
	1625' FNL & 1455' FEL		CDL/CNL
	SEC 11 TWP 17S RGE 35W		
Permanent Datum	GROUND LEVEL	Elevation	3173
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING		
		Elevation	K.B. 3182 D.F. 3180 G.L. 3173
Date	10/15/14		
Run Number	ONE		
Depth Driller	5030		
Depth Logger	5034		
Bottom Logged Interval	5032		
Top Log Interval	00		
Casing Driller	8 5/8"@263'		
Casing Logger	262		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,000 PPM	
Density / Viscosity	9.3/65		
pH / Fluid Loss	9.0/10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.500@60F		
Rmf @ Meas. Temp	.375@60F		
Rmc @ Meas. Temp	.600@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.240@125F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	12:30 A.M.		
Maximum Recorded Temperature	125F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TERRY McLEOD		

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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 9785) 628-6395
DIRECTIONS

SCOTT CITY, KS. (HWY 83 & 96) 12W. ON HWY 96 TO "SCOTT - WICHITA CO. LINE", 7N. TO "RD. J",
1W., 1 1/2N., W. INTO

**COMPLETION
& PRODUCTION****MAIN SECTION**

Database File:

25895ddn.db

Dataset Pathname:

pass5.13

Presentation Format:

dil2

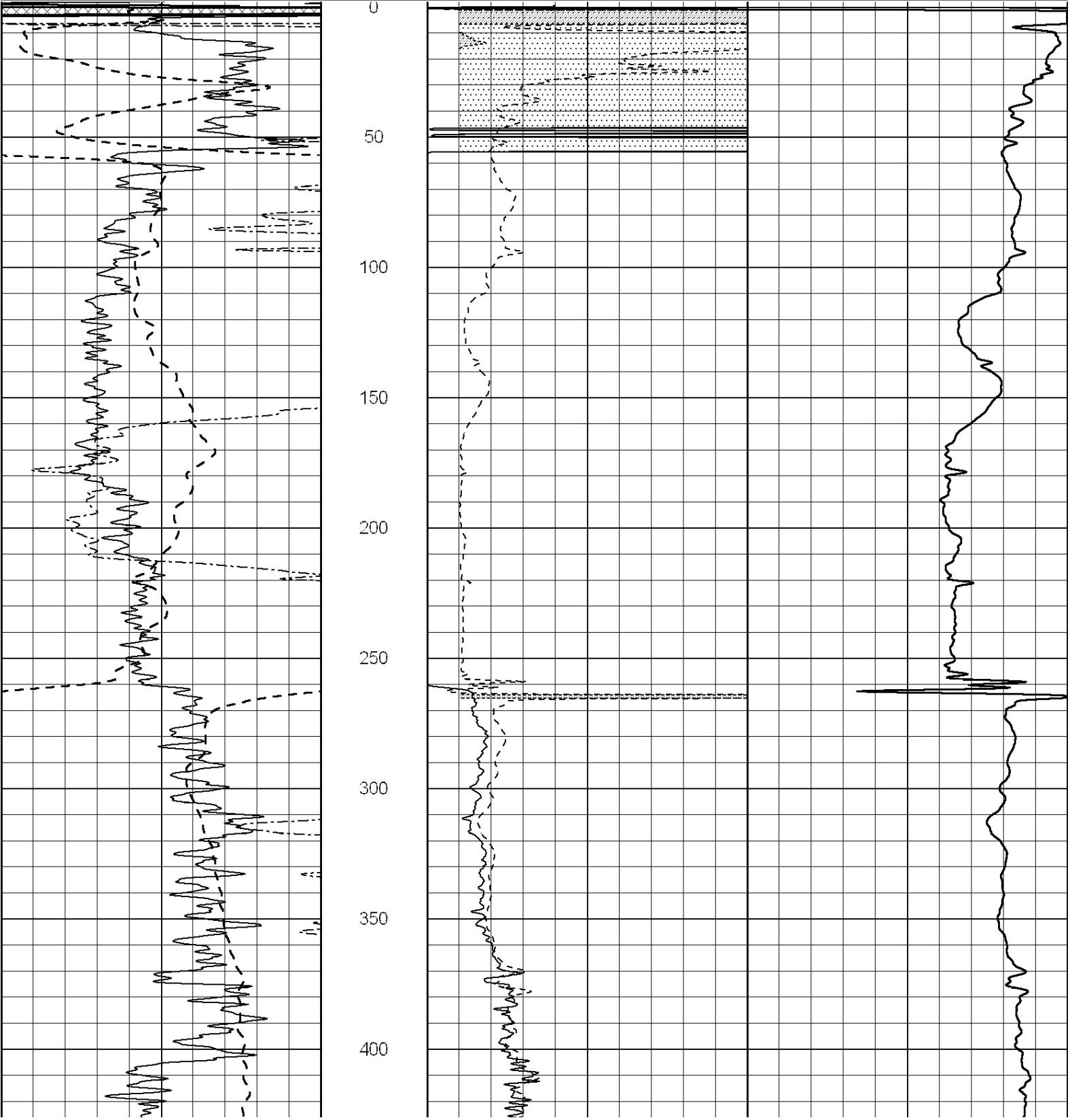
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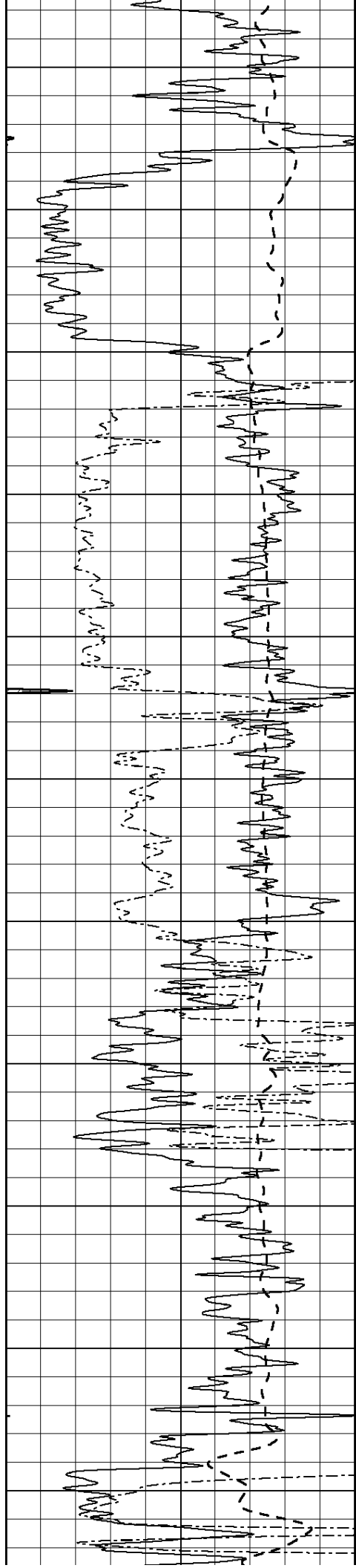
Wed Oct 15 02:26:50 2014

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	
0	RWA (Ohm-m)	1	1000		CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500	
			50	RLL3 X10 (Ohm-m)	500	





450

500

550

600

650

700

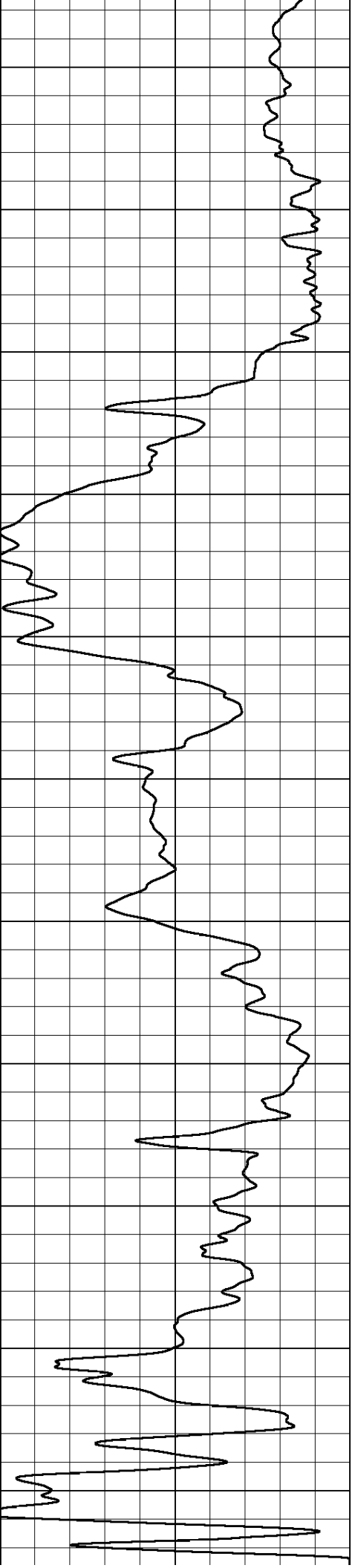
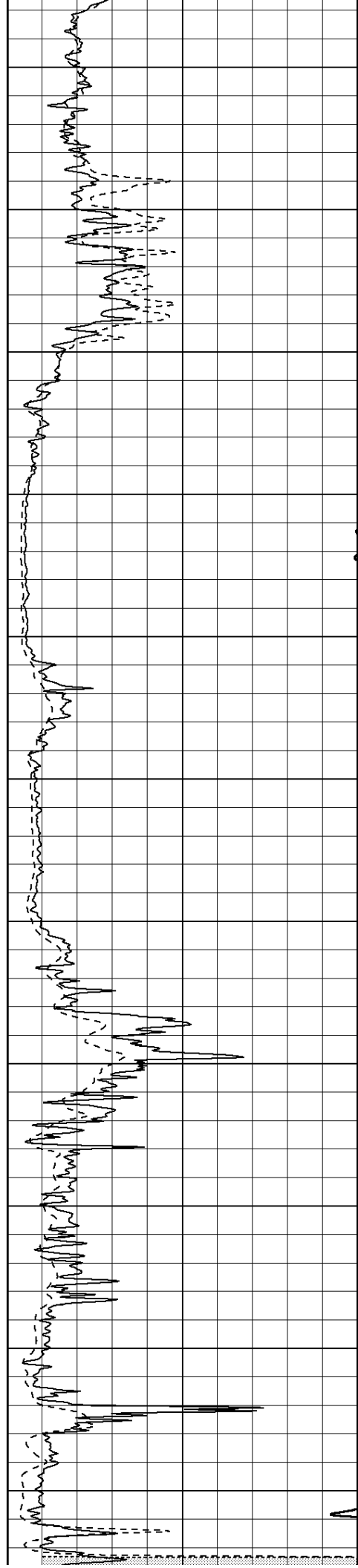
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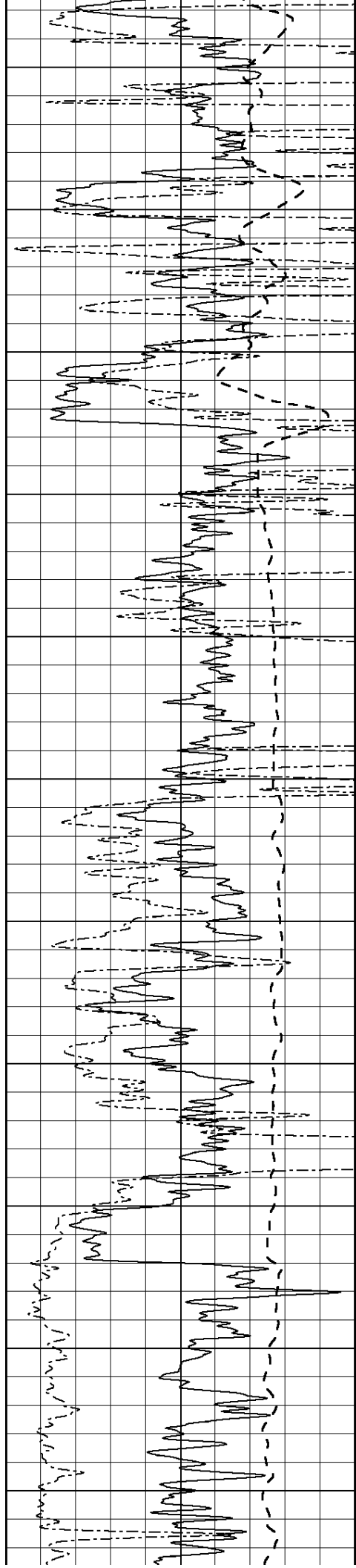
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900

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1000

1050

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1150

1200

1250

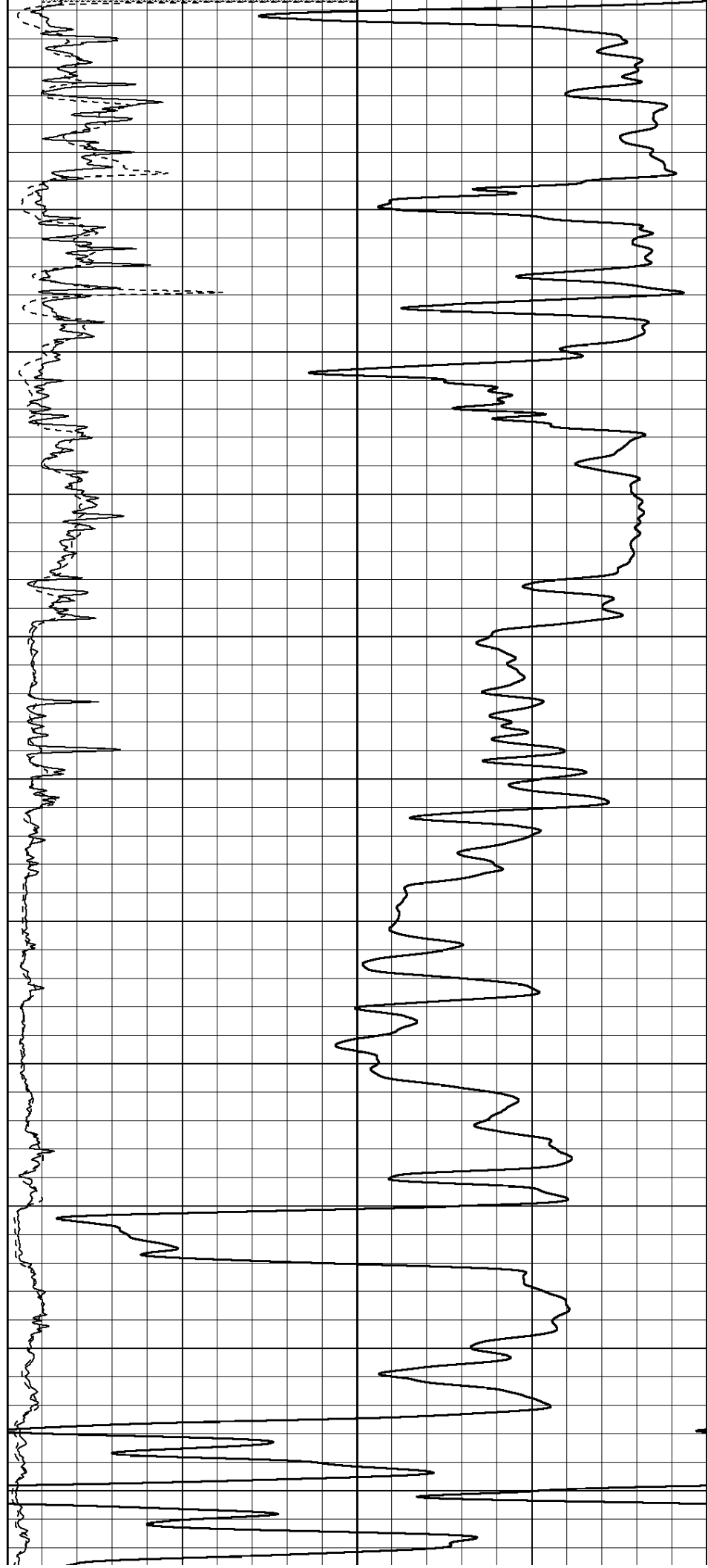
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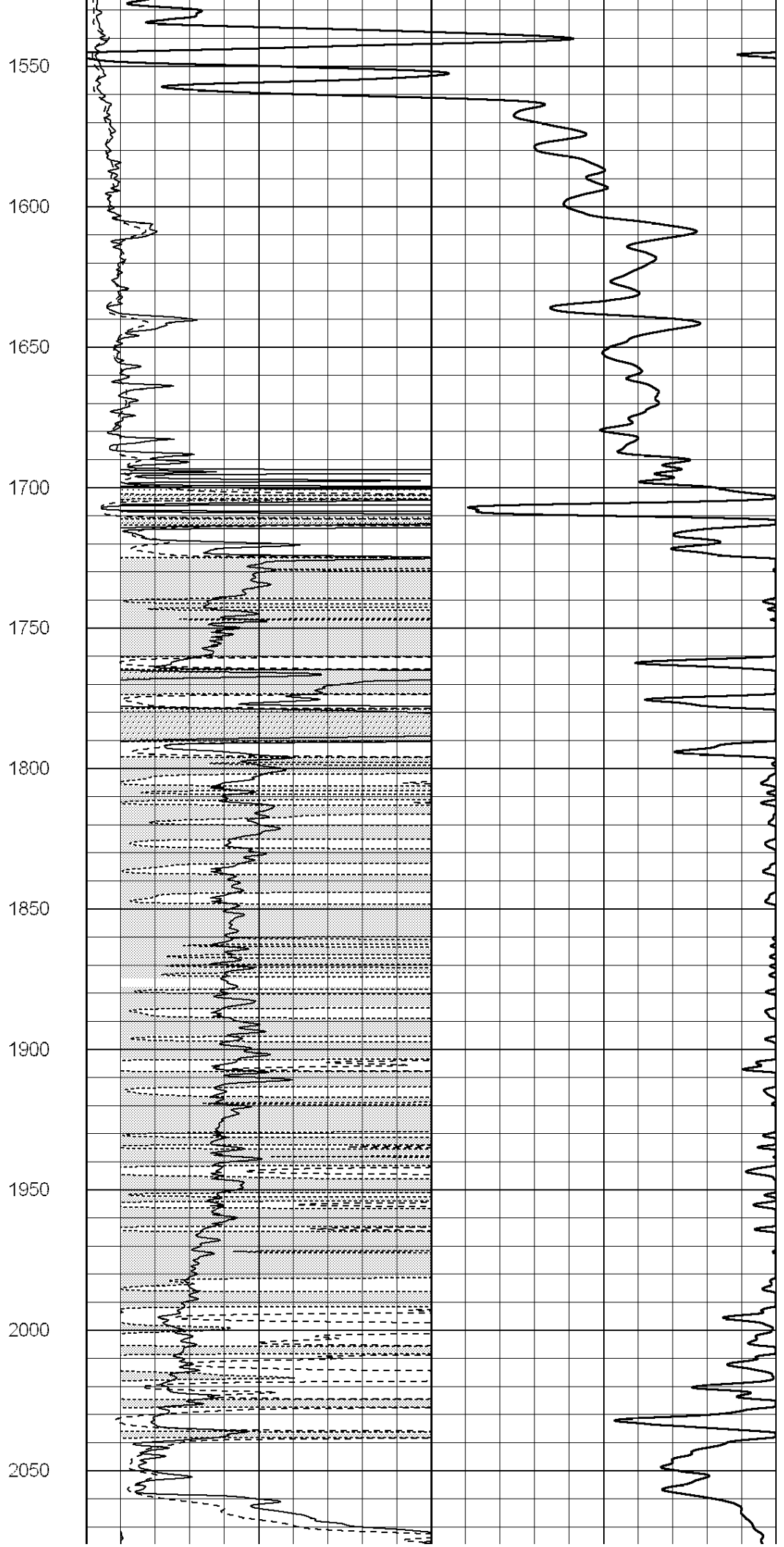
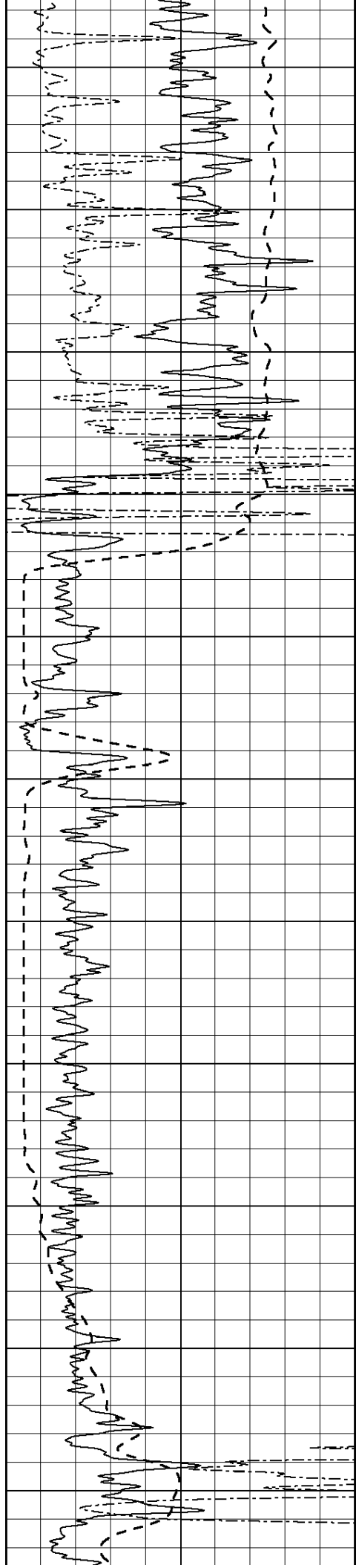
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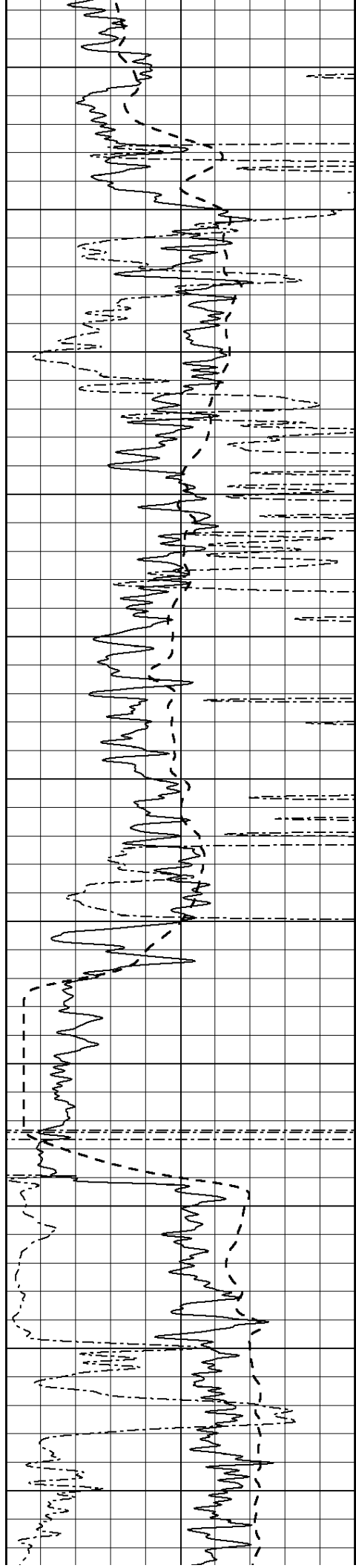
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2100

2150

2200

2250

2300

2350

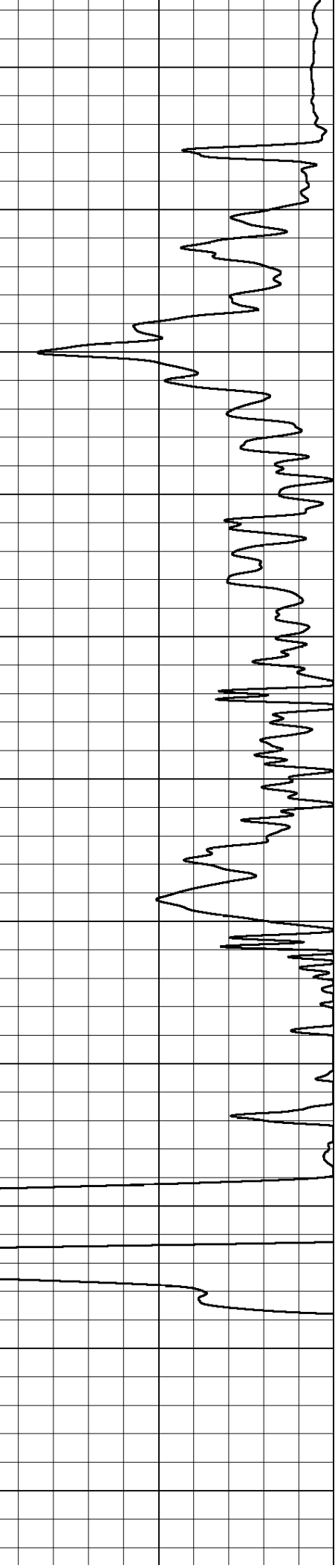
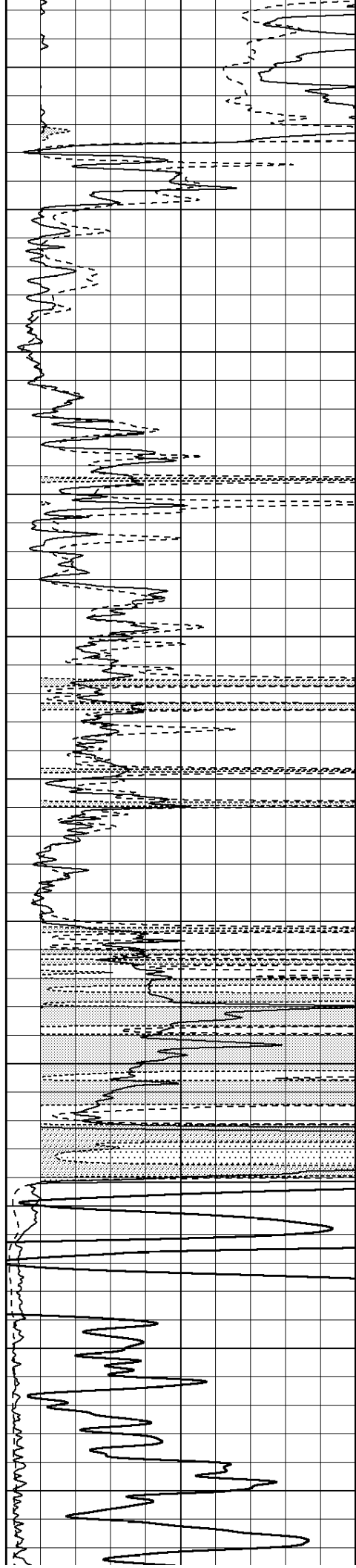
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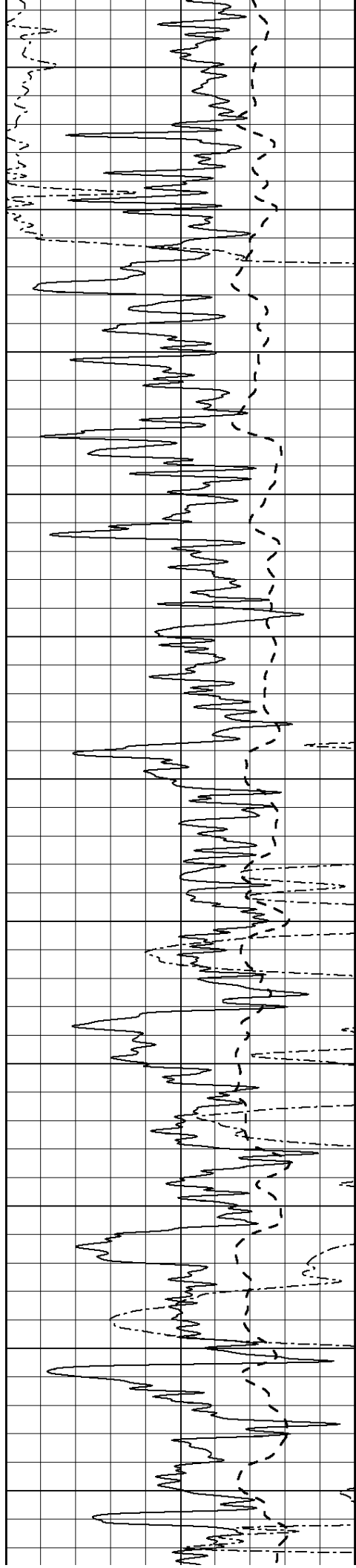
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2600





2650

2700

2750

2800

2850

2900

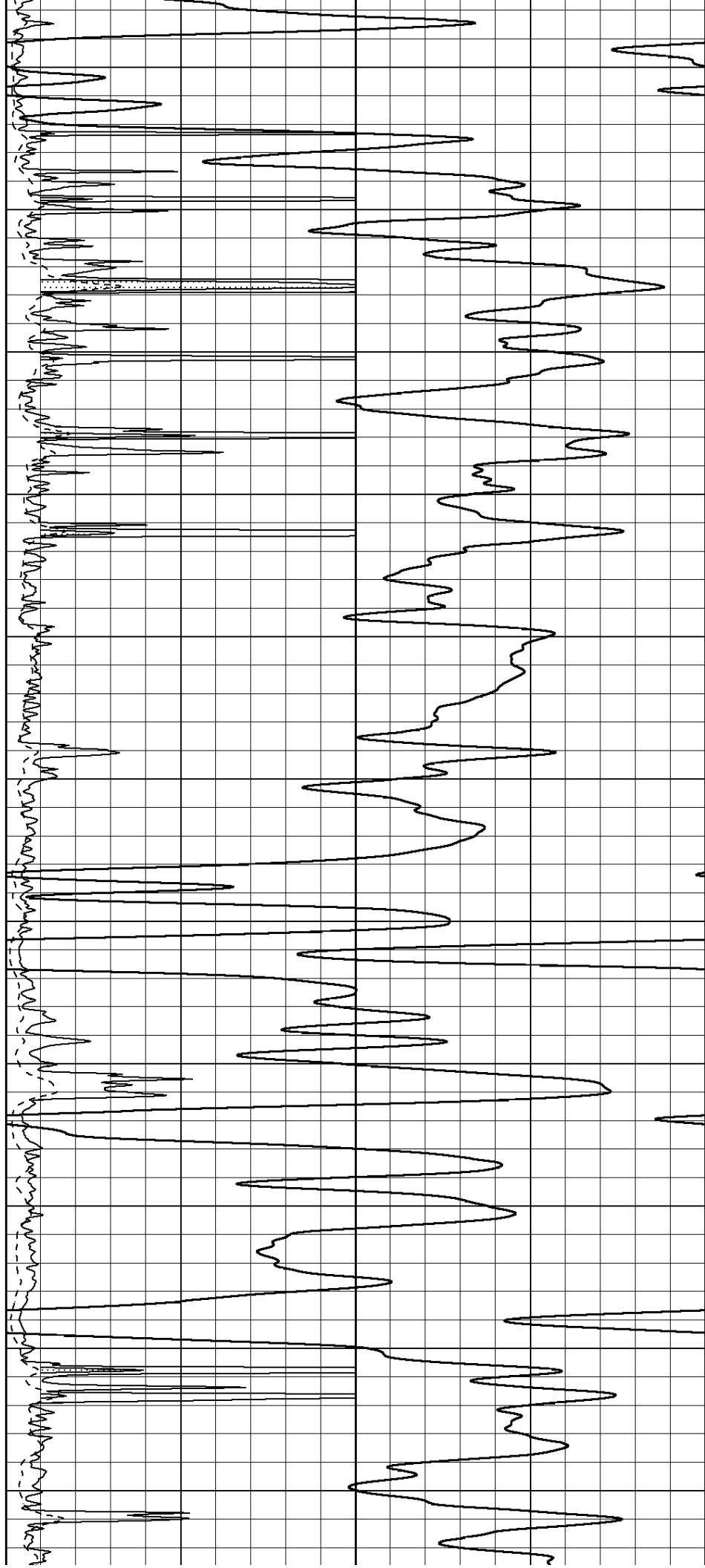
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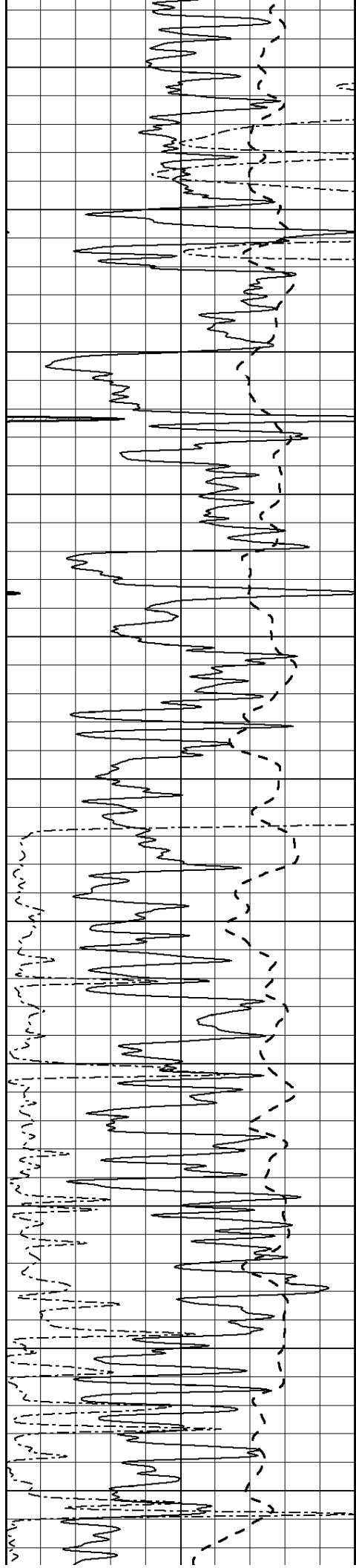
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3050

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3150





3200

3250

3300

3350

3400

3450

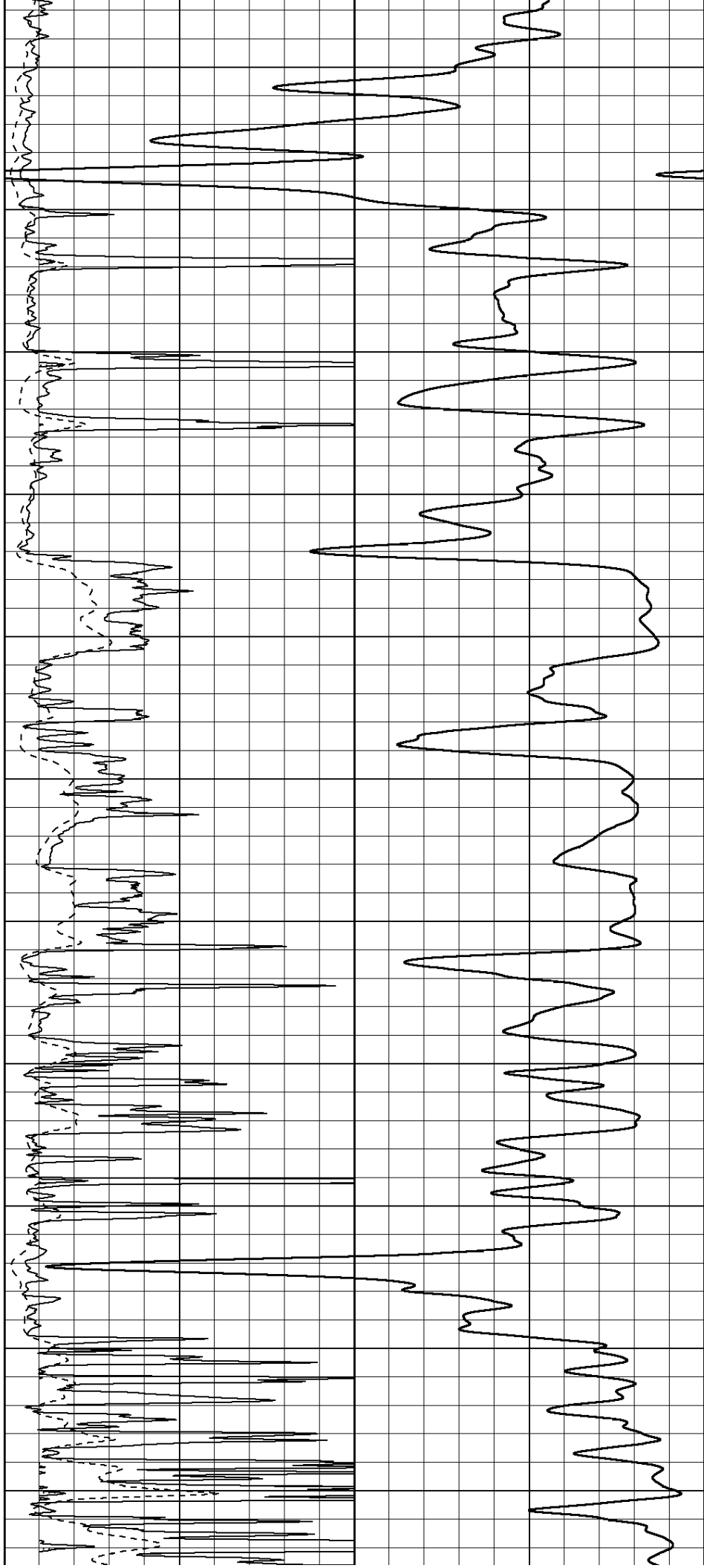
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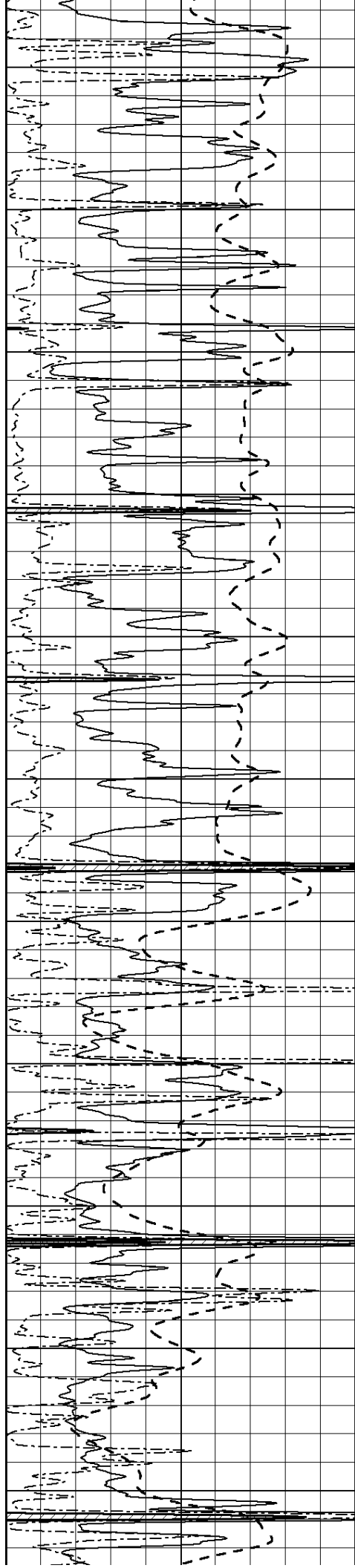
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3800

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3900

3950

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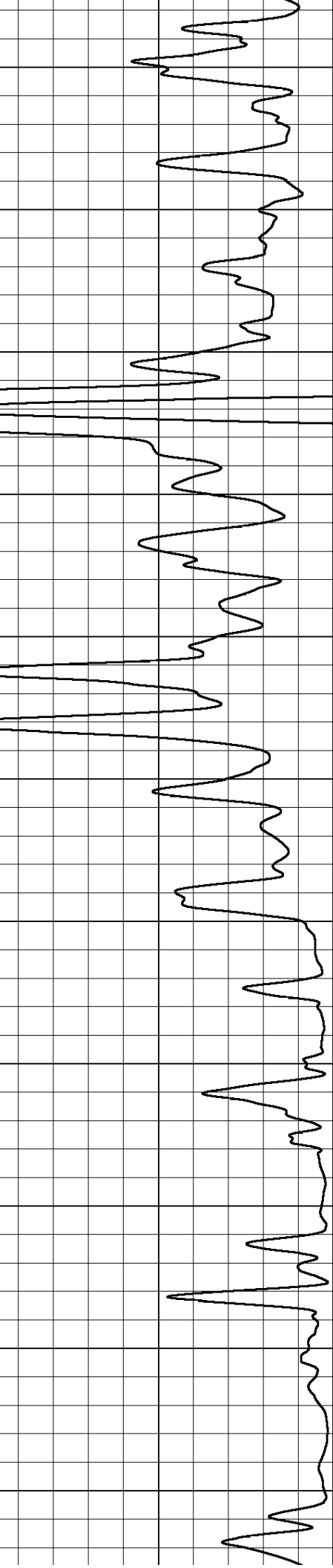
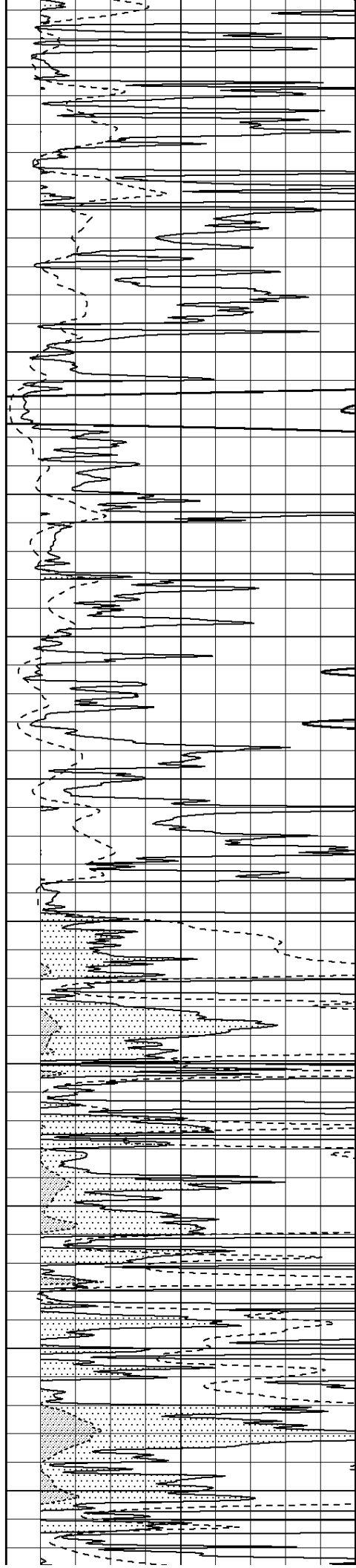
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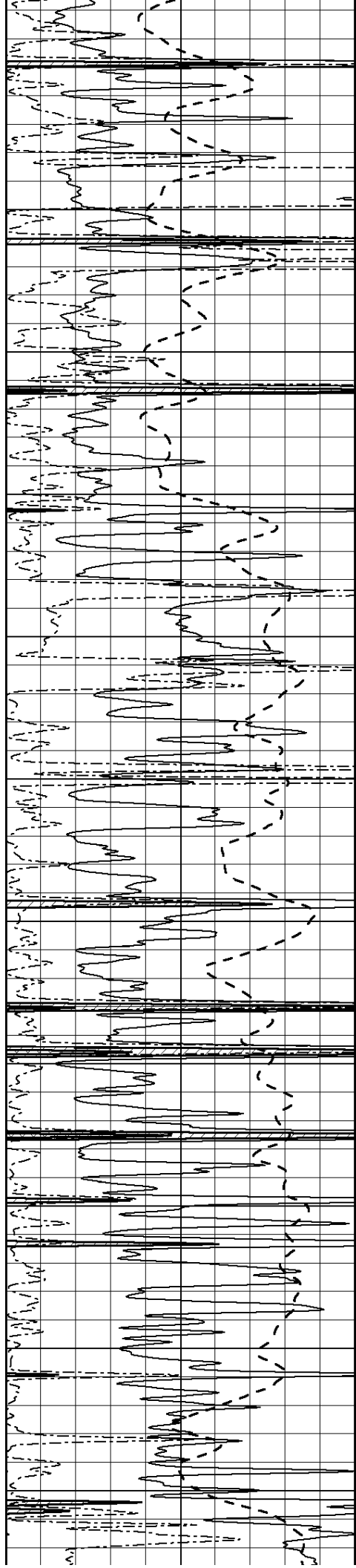
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4350

4400

4450

4500

4550

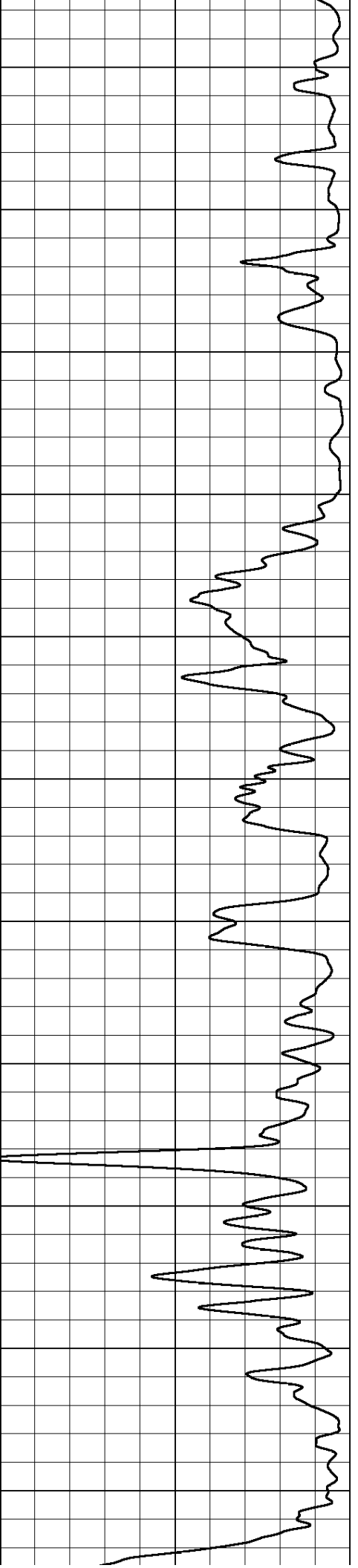
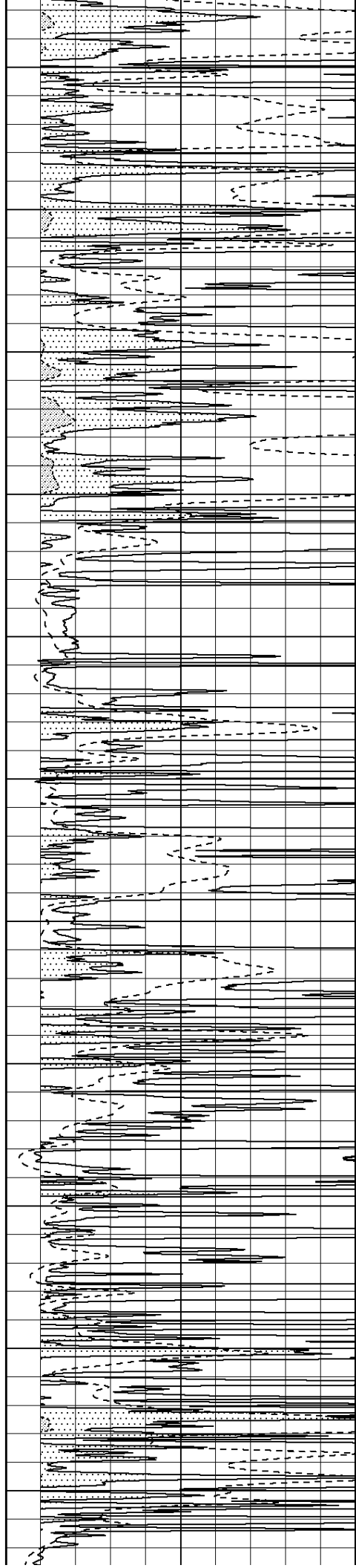
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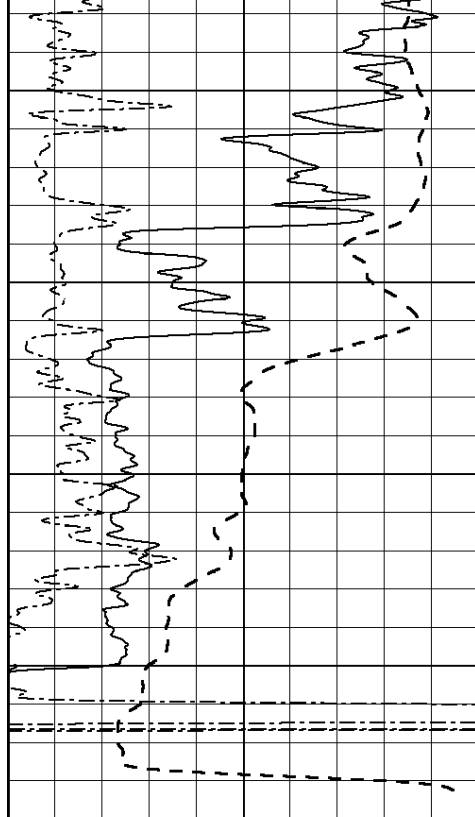
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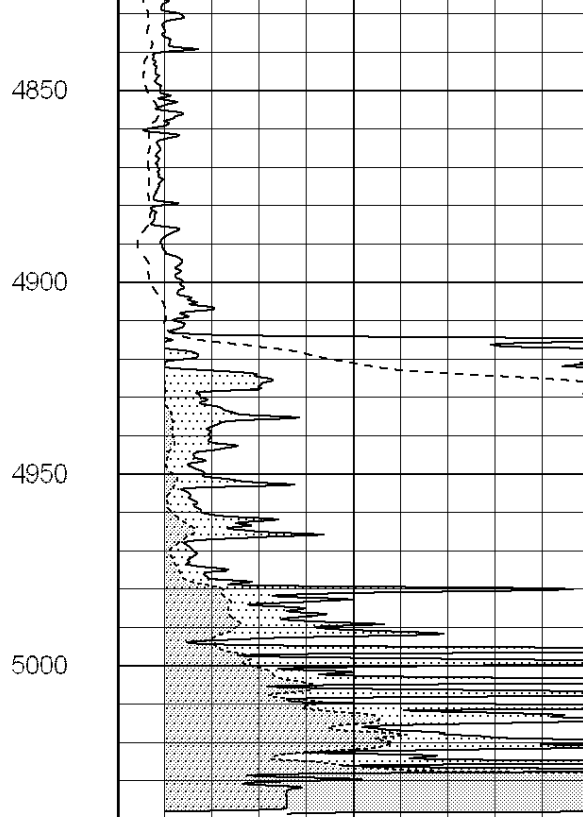
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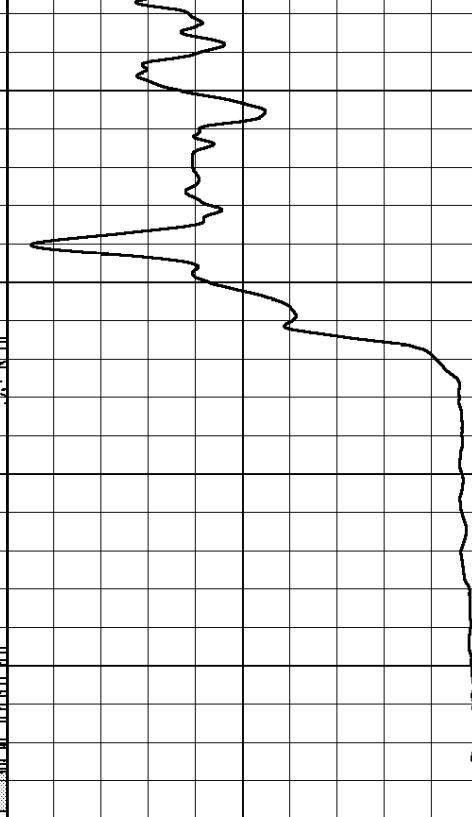




0	Gamma Ray (GAPI)	150
-100	SP (mV)	100
0	RWA (Ohm-m)	1



0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



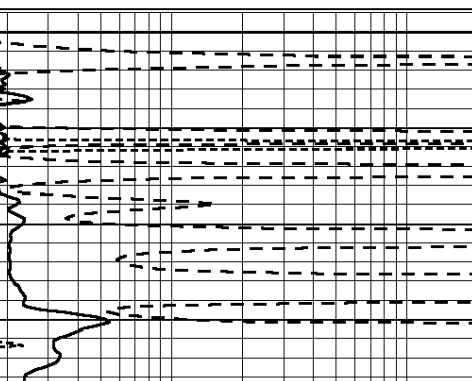
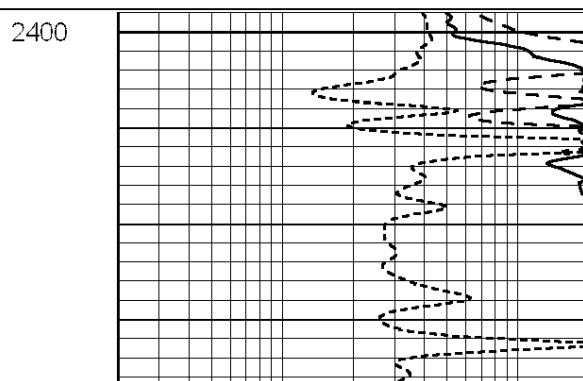
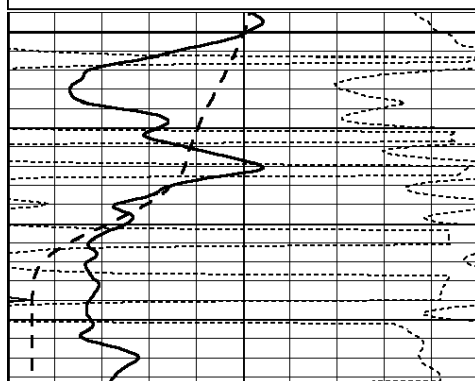
NABORS
COMPLETION
& PRODUCTION
SERVICES CO.

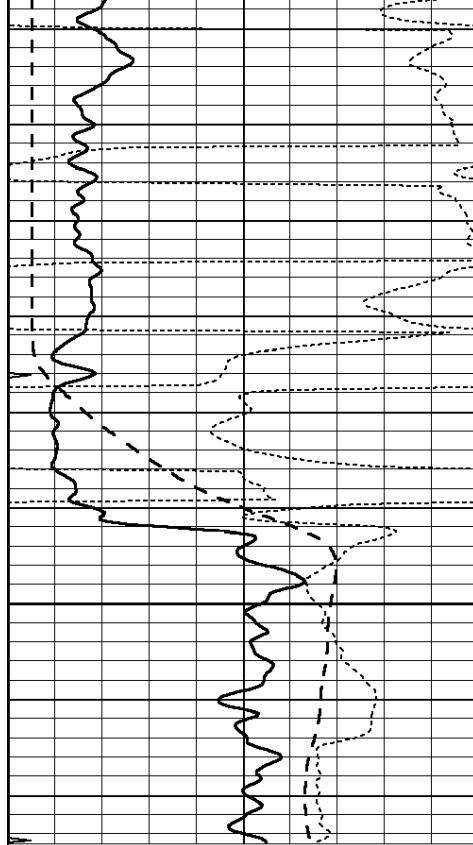
ANHYDRITE

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Presentation Format: _dil
Dataset Creation: Wed Oct 15 02:29:02 2014
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

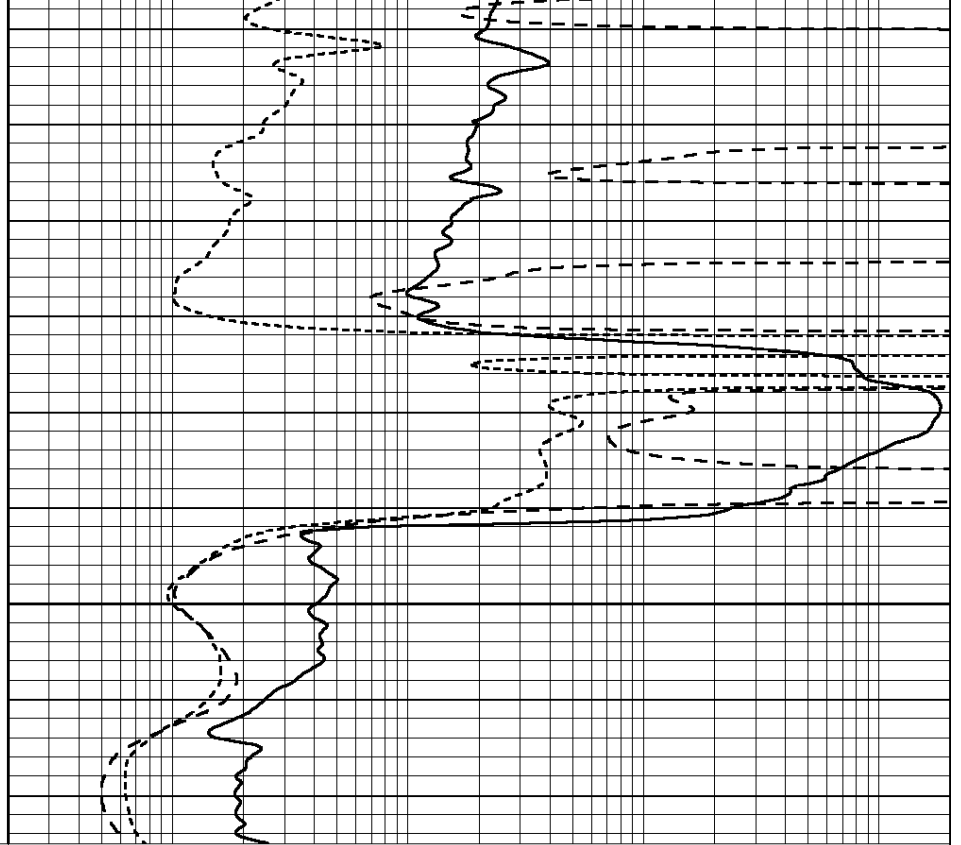




2450

2500

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

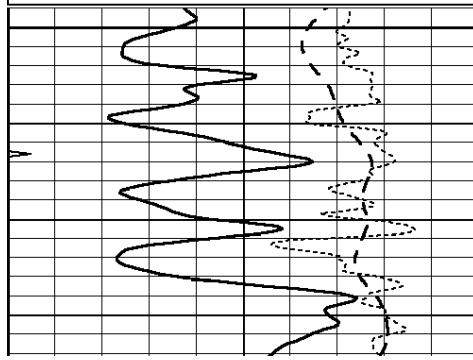


MAIN SECTION

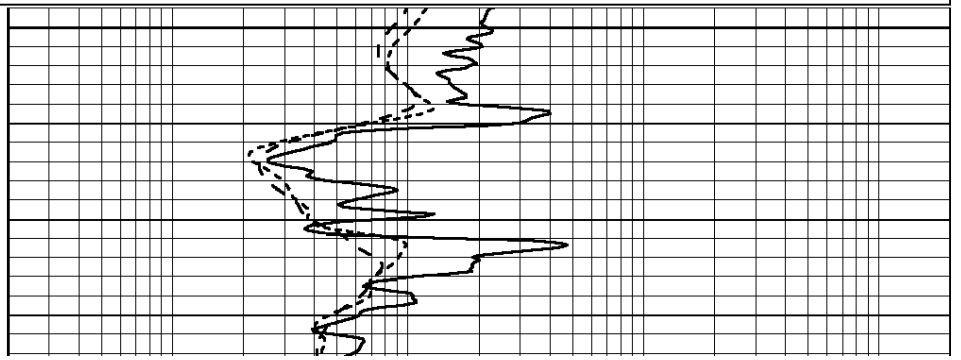
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 Dataset Pathname: pass5.13
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 Dataset Creation: Wed Oct 15 02:26:50 2014
 Charted by: Depth in Feet scaled 1:240

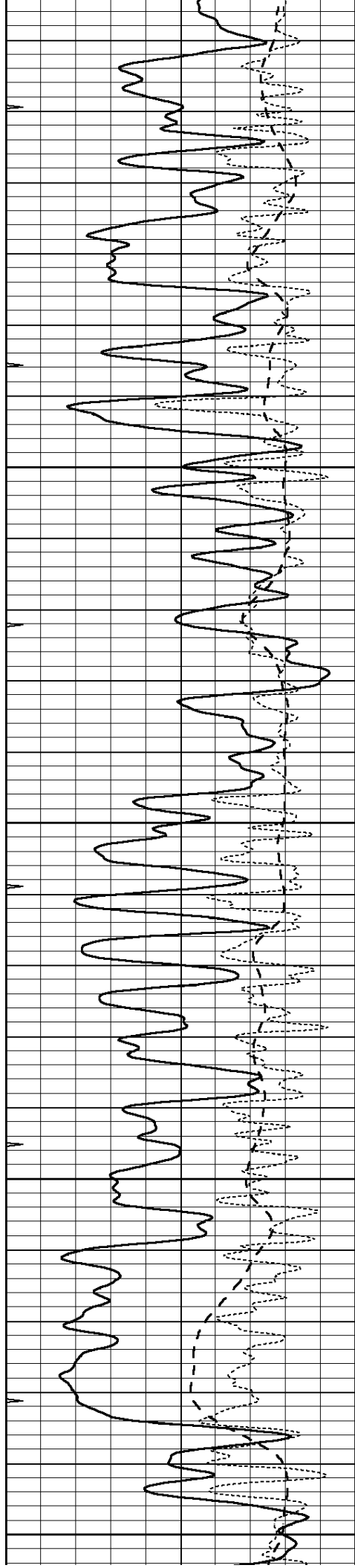
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



3500





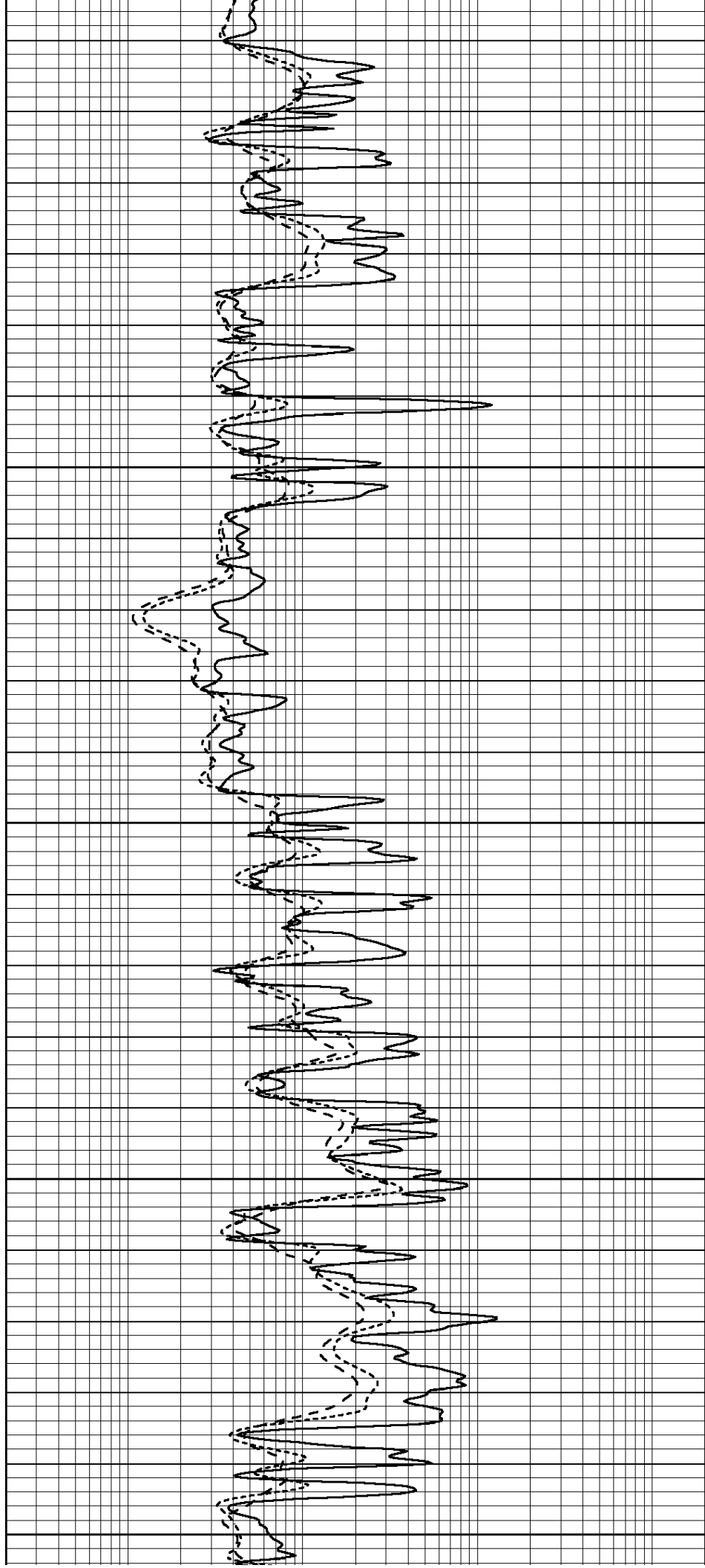
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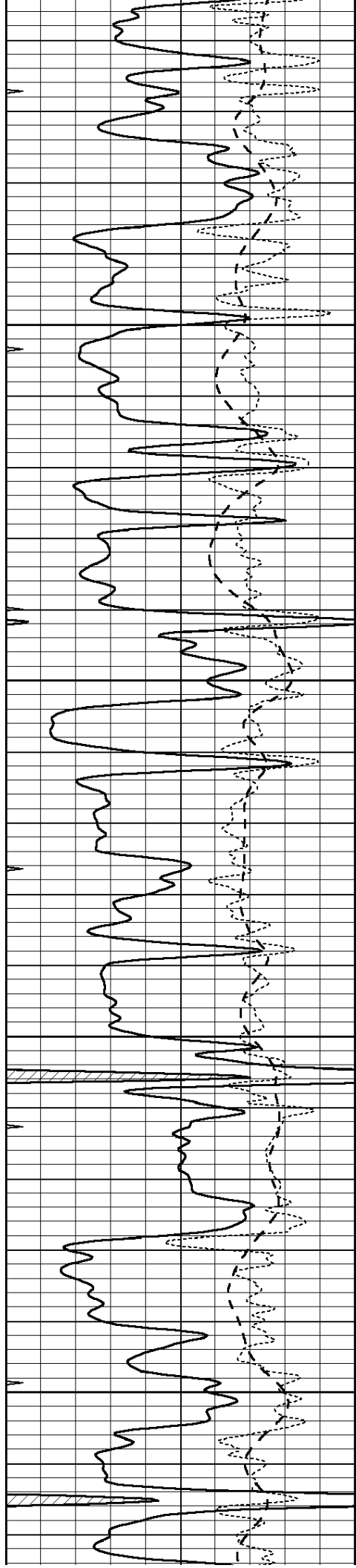
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3700

3750



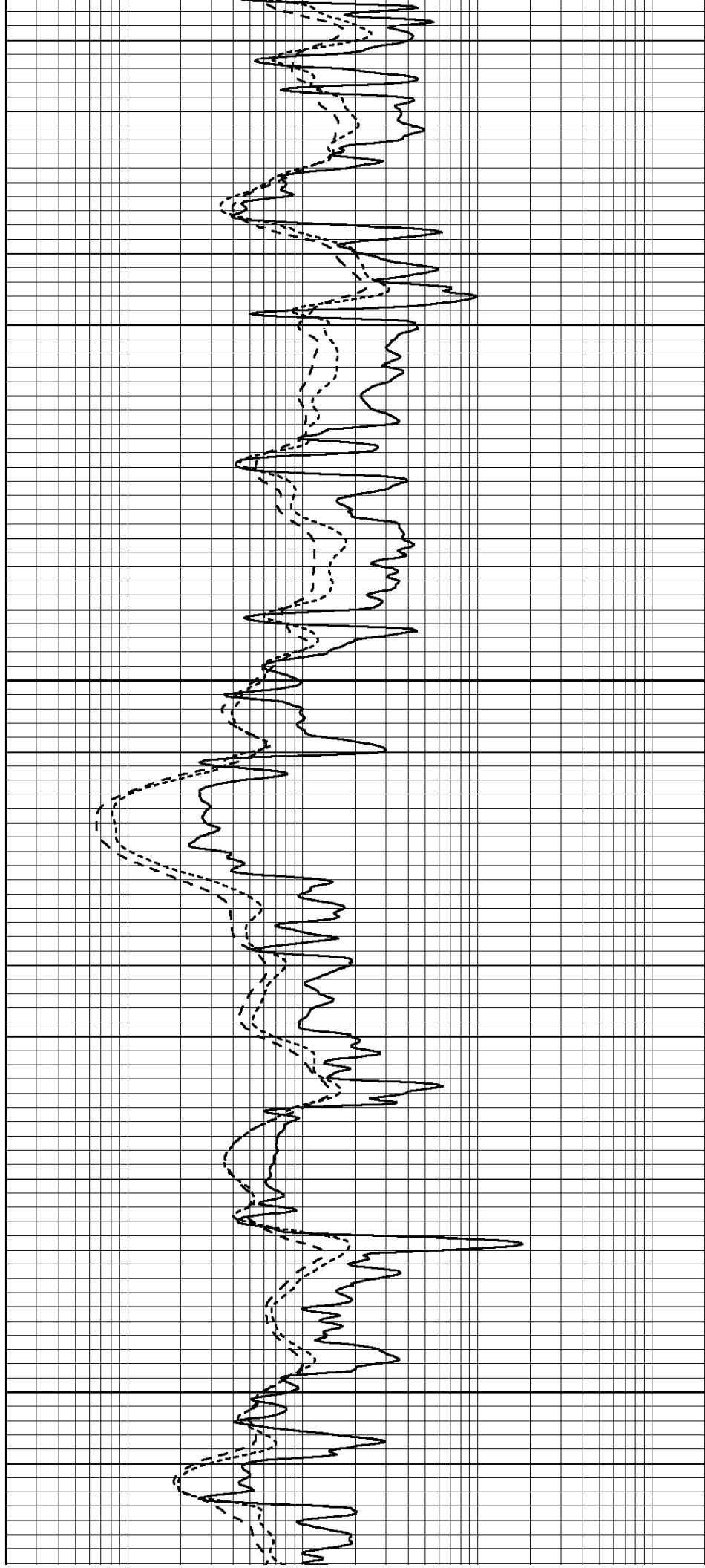


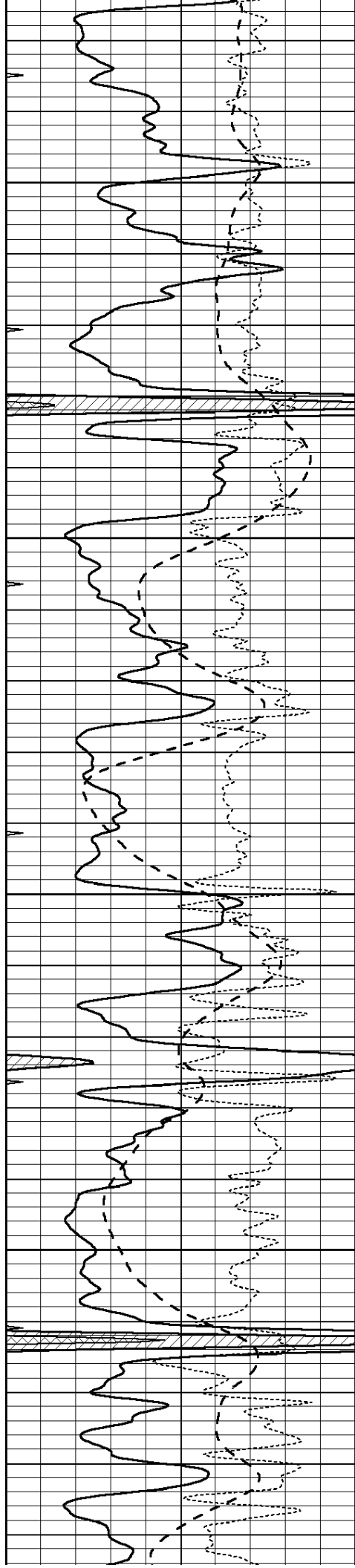
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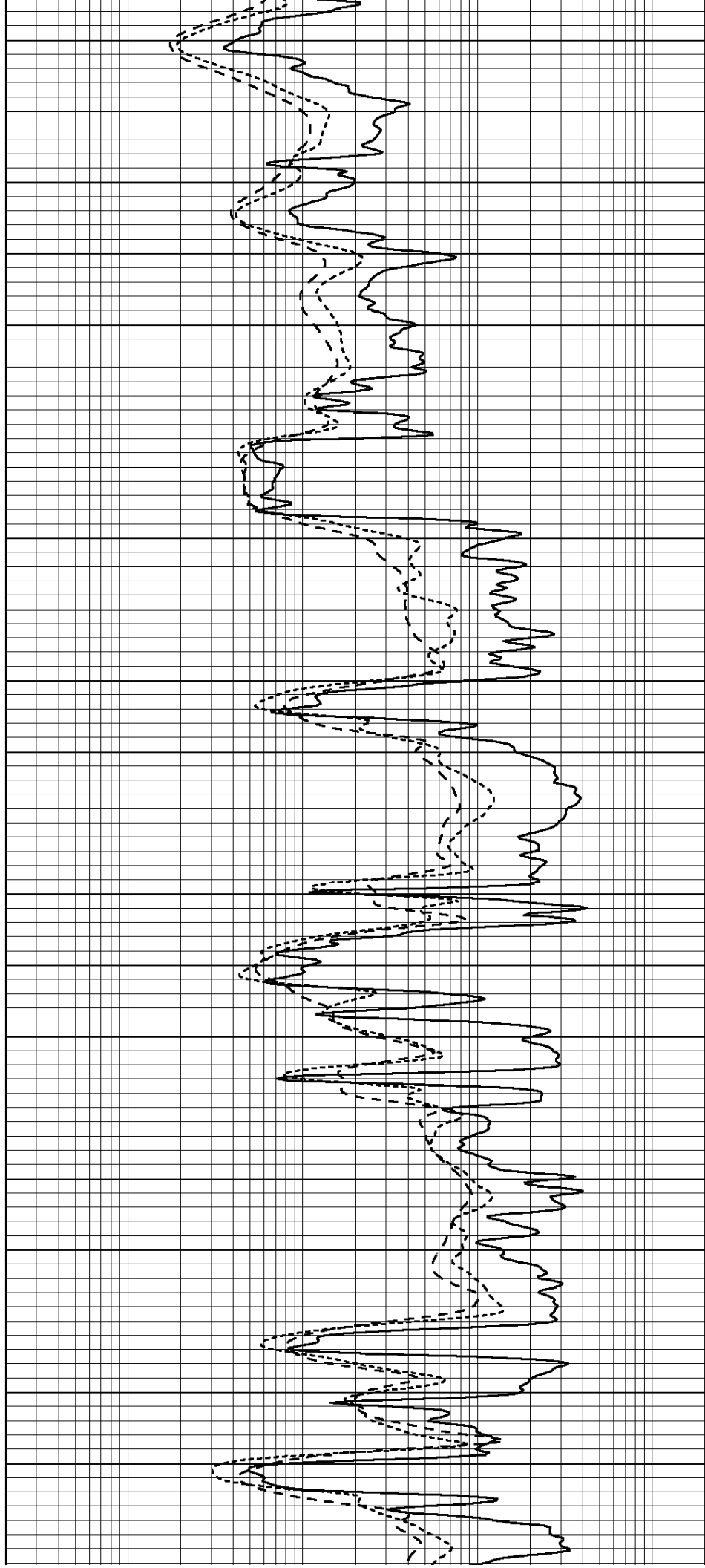


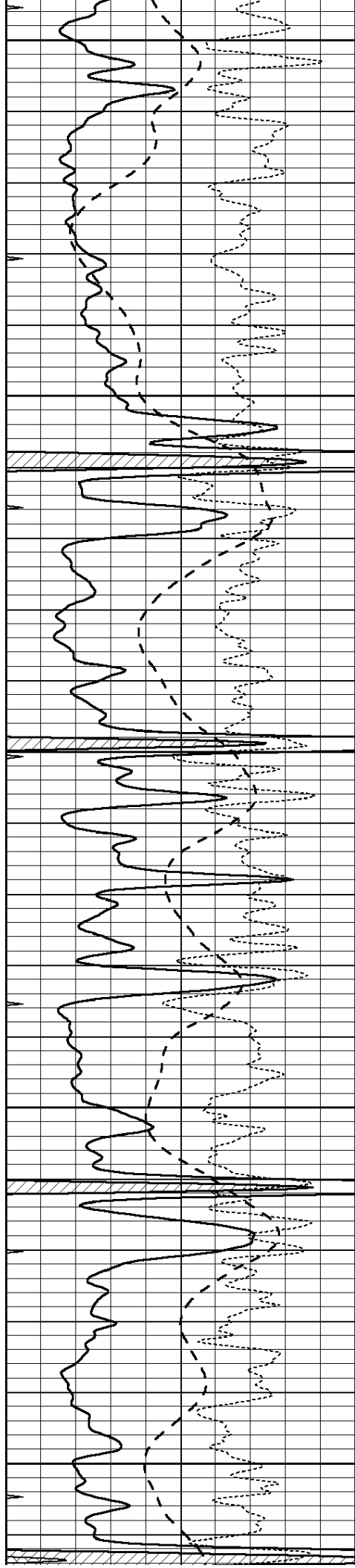
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4150





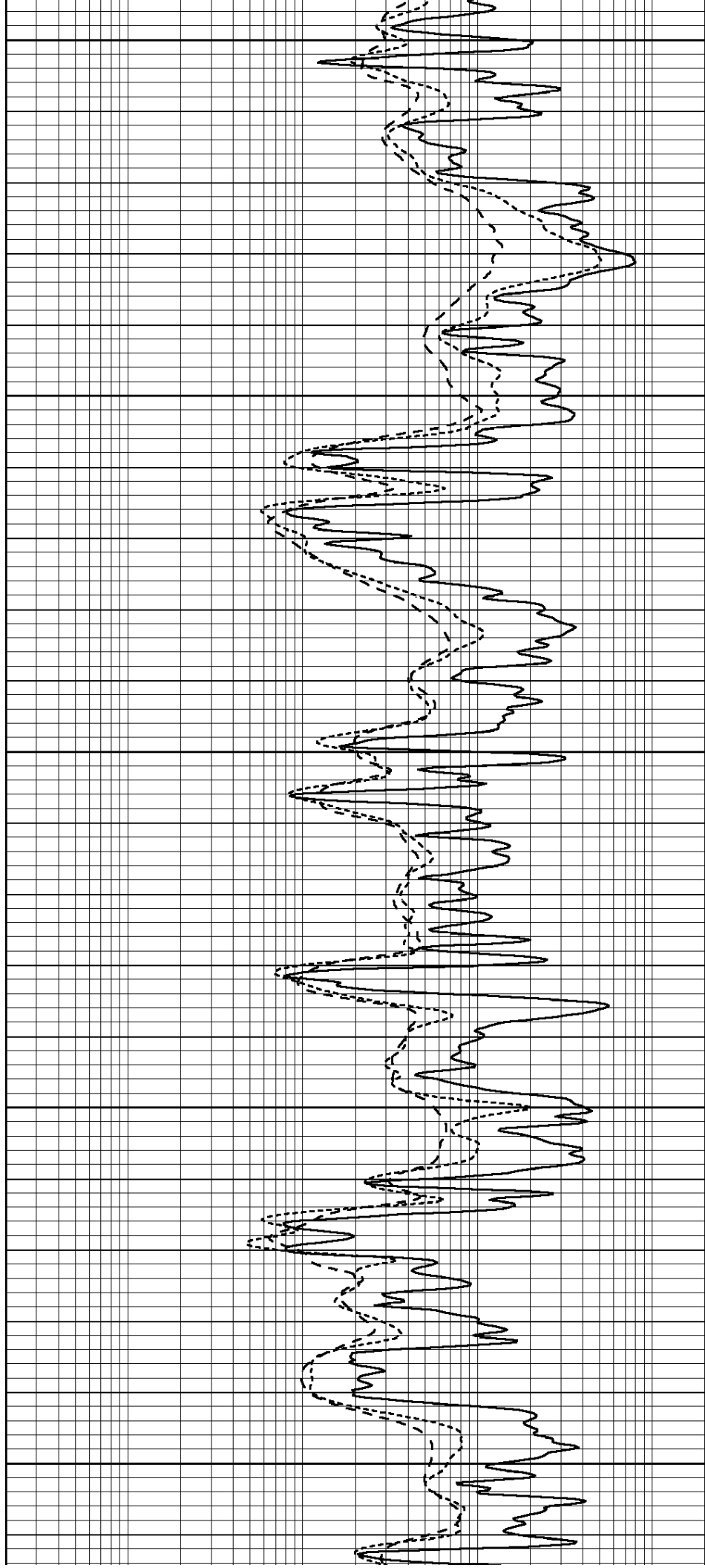
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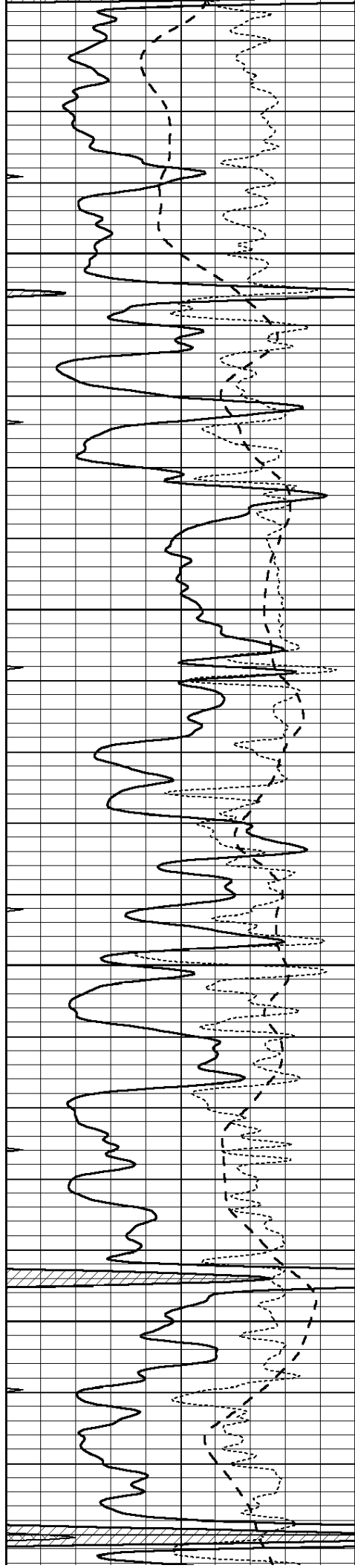
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4400



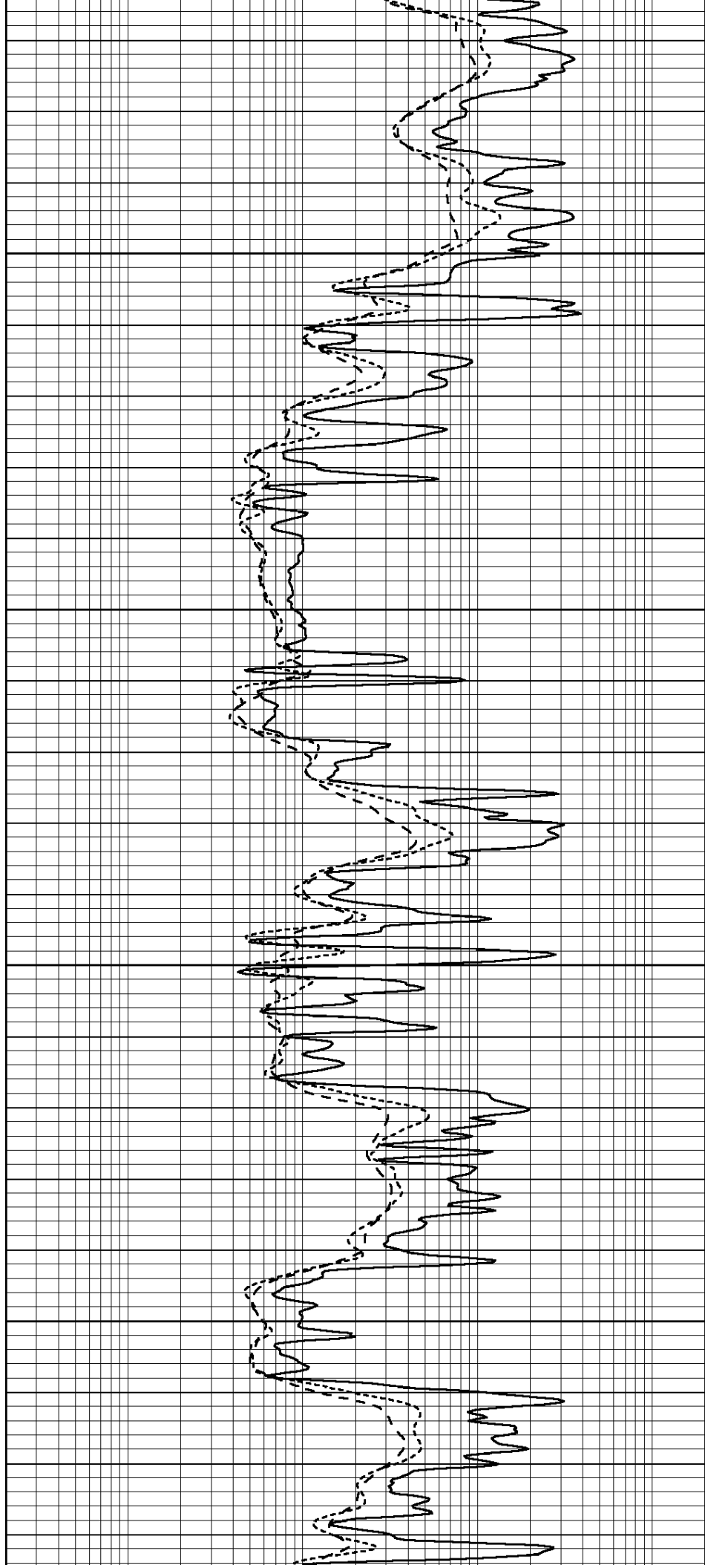


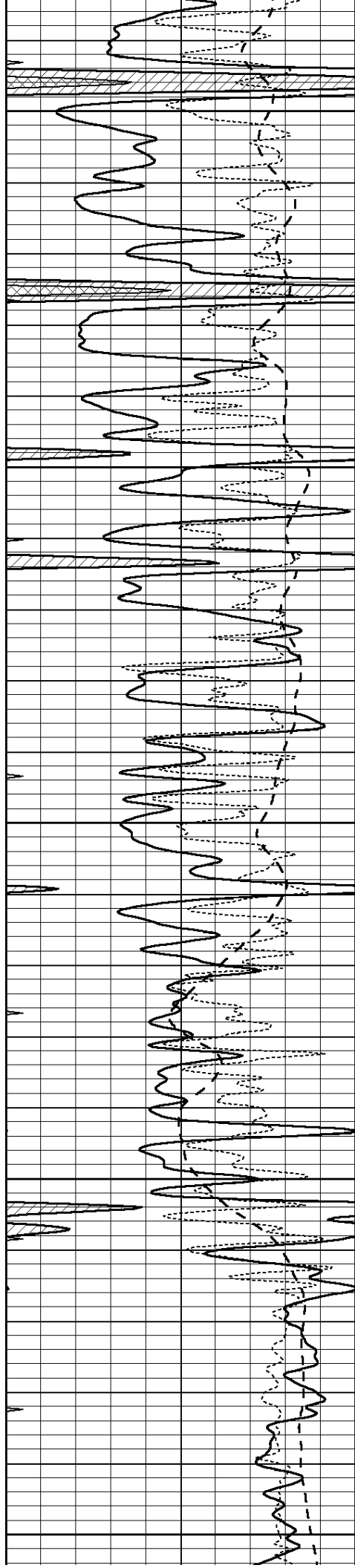
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4500

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4600





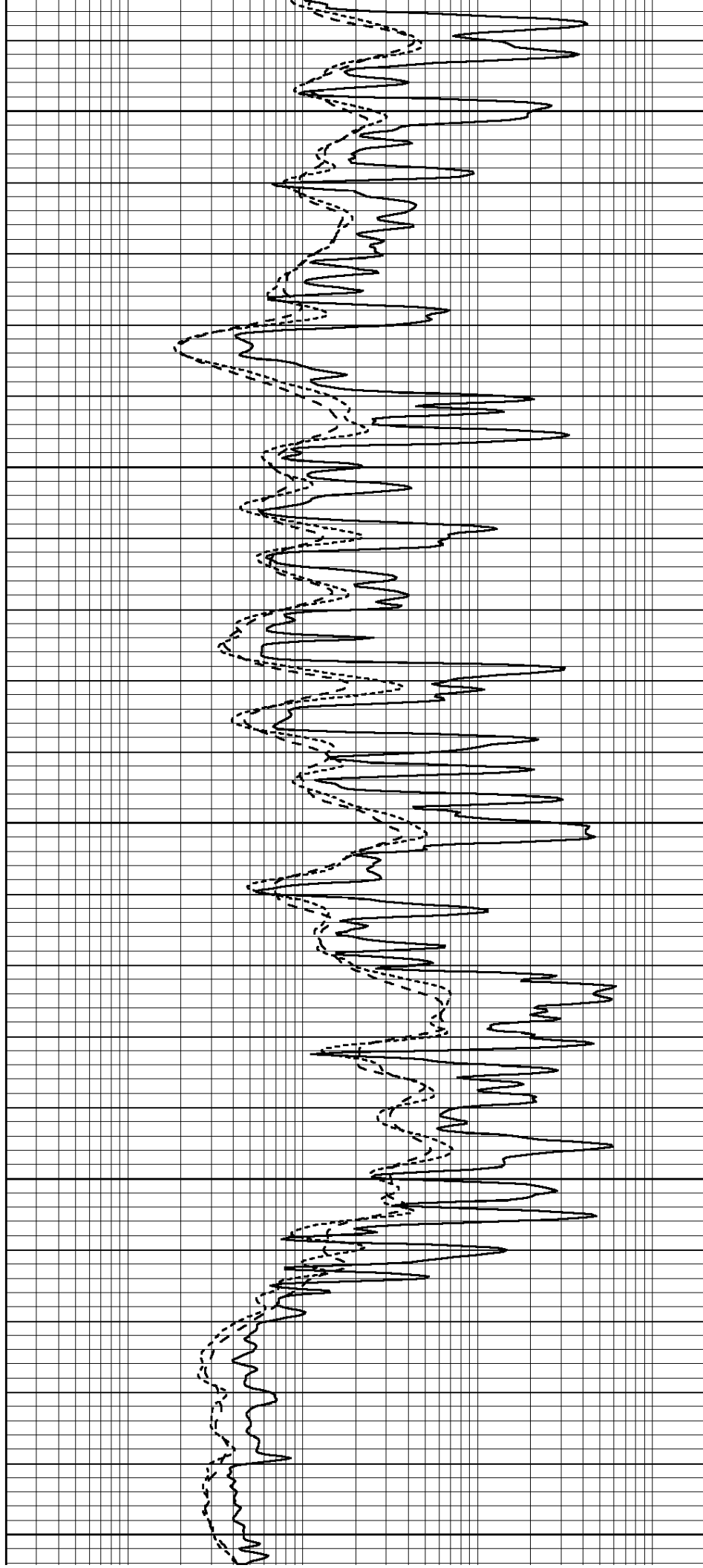
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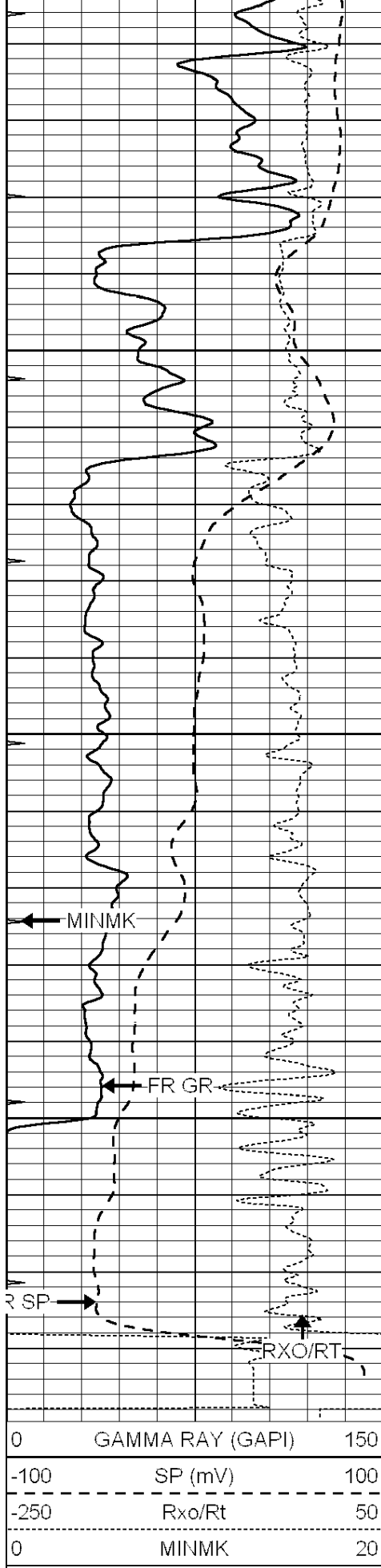
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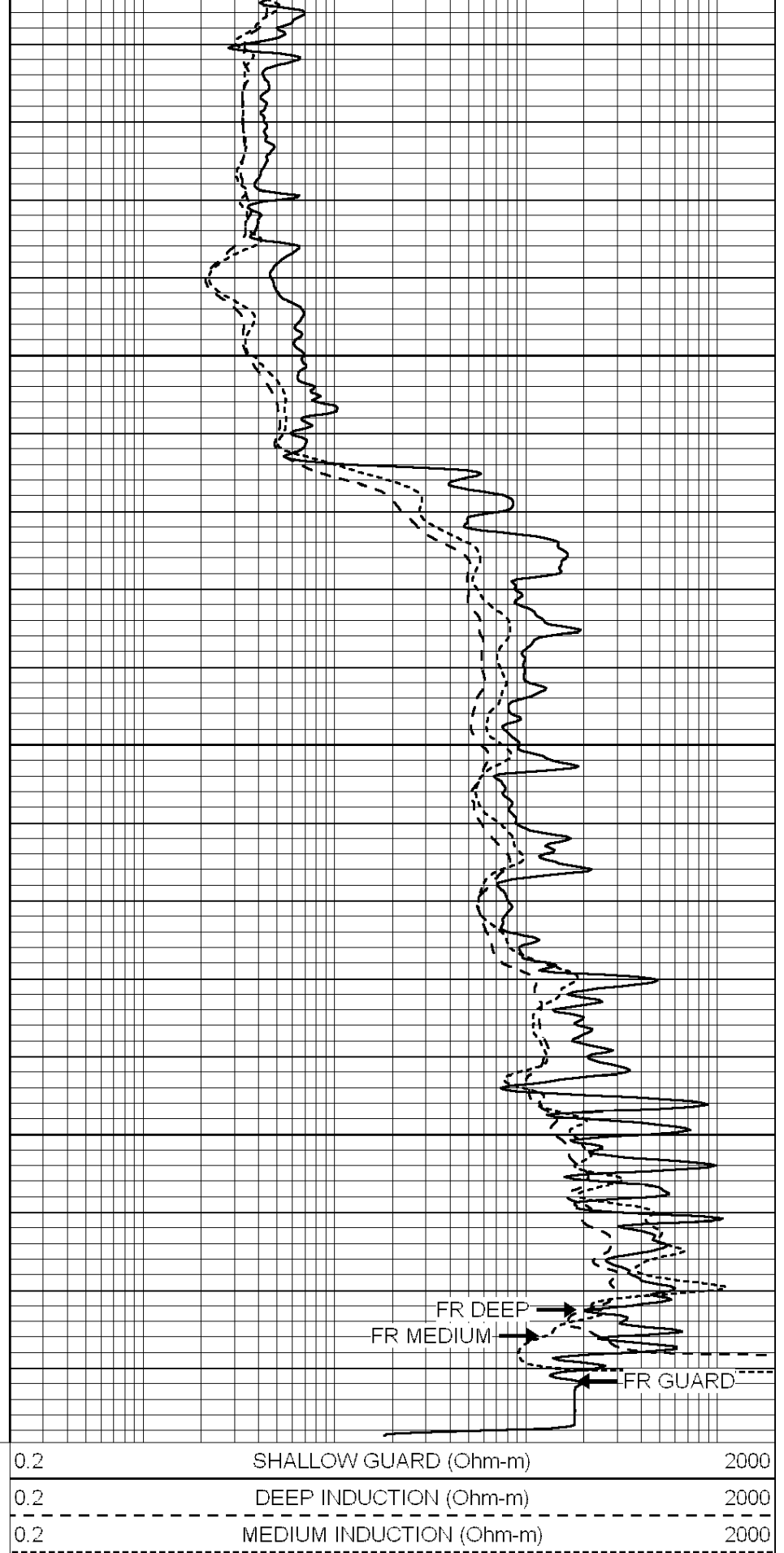


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LTD 5034

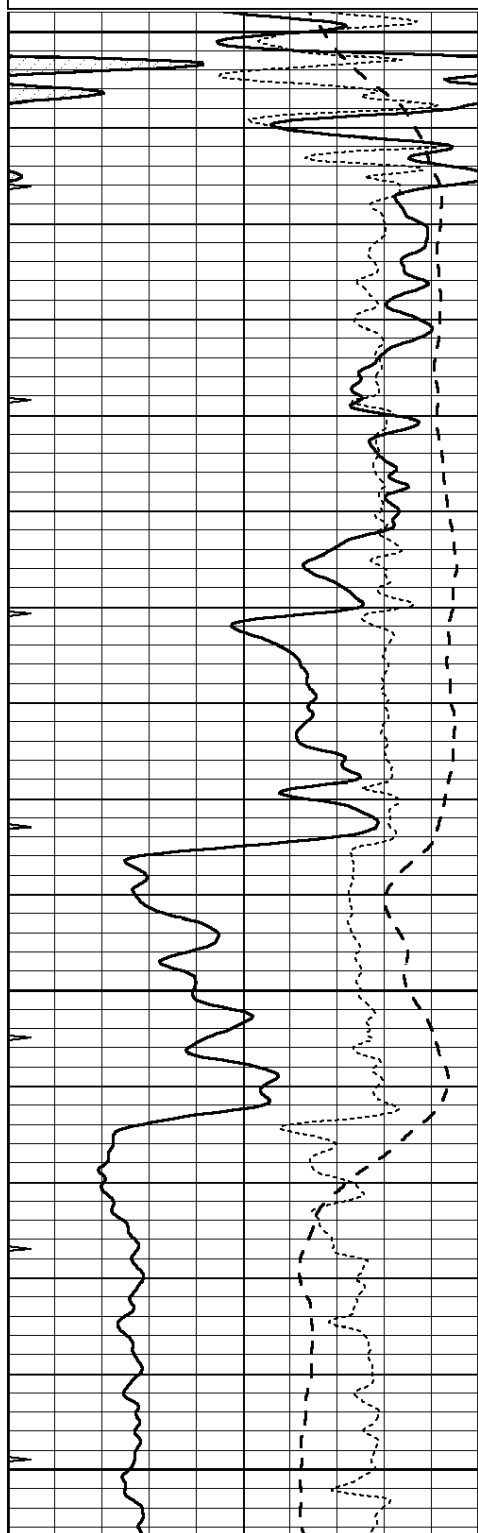


REPEAT SECTION

Database File: 25895ddn.db
 Dataset Pathname: pass4.5
 Presentation Format: _dil
 Dataset Creation: Wed Oct 15 01:06:04 2014
 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

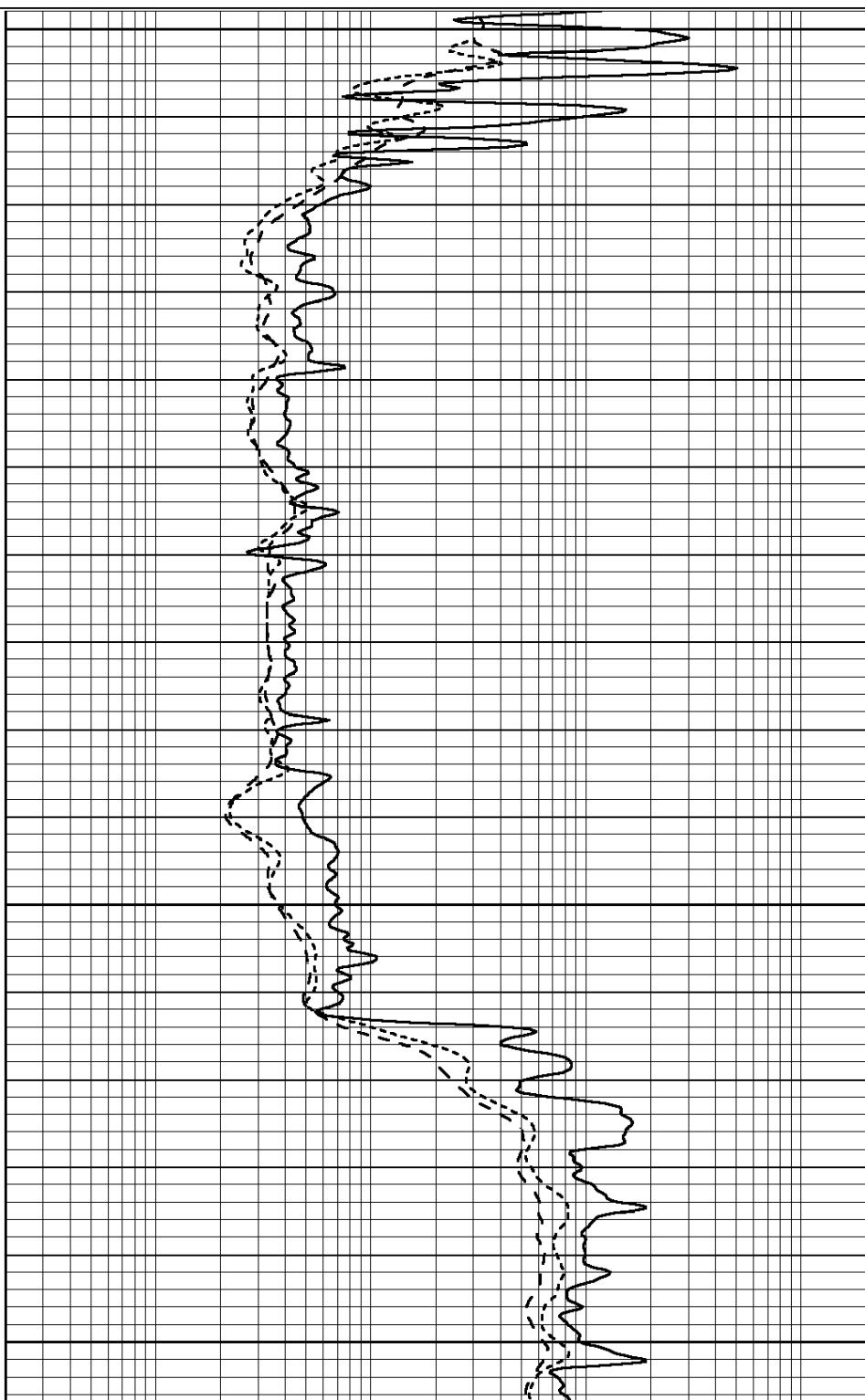


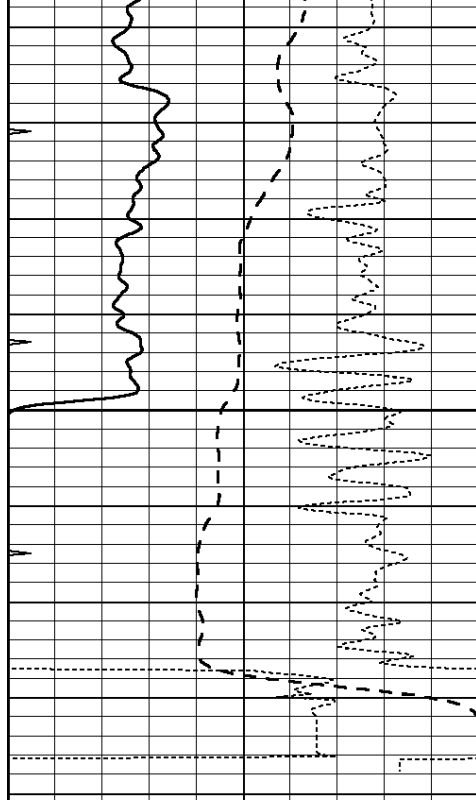
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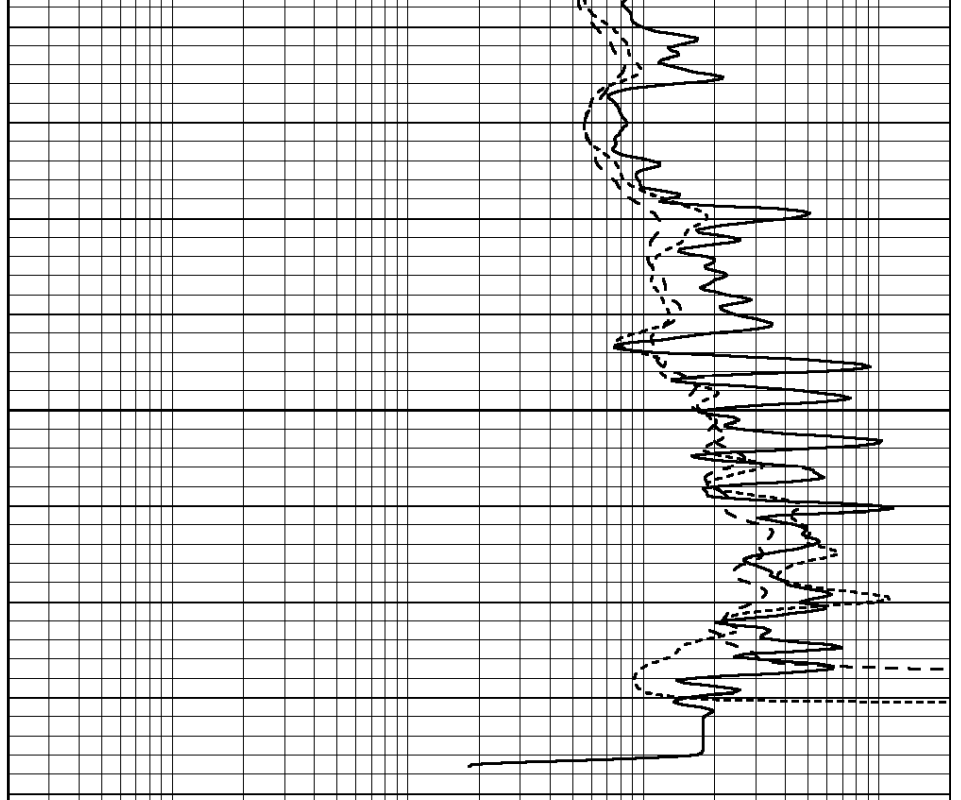
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5000

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

Calibration Report

Database File: 25895ddn.db
Dataset Pathname: pass5.13
Dataset Creation: Wed Oct 15 02:26:50 2014

Dual Induction Calibration Report

Serial-Model: PROBE9-DILG
Surface Cal Performed: Thu Oct 09 11:37:56 2014
Downhole Cal Performed: Mon Jul 28 12:02:56 2008
After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	670.000	-10.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	670.000	-24.000
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
Medium	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: 004N			Model: PRB		

Master Calibration			Performed Fri May 30 11:01:00 2014		
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1378.8	10804.6	3492.0	12453.4	cps
Window 2	1262.4	9313.5	3076.7	10594.7	cps
Window 3	1077.6	5668.7	2076.0	6314.8	cps
Window 4	306.4	313.0	306.4	315.6	cps
Long Space	0.0	8051.0	1814.3	9332.3	cps
Short Space	1.9	1706.1	1146.0	1707.6	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 45.0	Rib Slope	: 1.002	Density/Spine Ratio	: 0.571
Spine Angle	: 75.0	Spine Slope	: 3.745	Spine Intercept	: -18.9

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:	070558		
Tool Model:	OPEN_GR		
Performed:	Mon Jun 30 21:53:39 2014		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2800	GAPI/cps	