



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company		RAYMOND OIL COMPANY, INC.	
Well		#2 MICHAUD TRUST	
Field		ALAMOTA WEST	
County		LANE	
State		KANSAS	
Location:		API # : 15-101-22288-0000	
SEC 21 TWP 18S RGE 27W		CDL/CNL MEL	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 9' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		2692	
K.B. 2701		D.F. 2699	
G.L. 2692			
Date	3/28/11		
Run Number	ONE		
Depth Driller	4725		
Depth Logger	4725		
Bottom Logged Interval	4723		
Top Log Interval	00		
Casing Driller	8 5/8"@254'		
Casing Logger	255		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,100 PPM	
Density / Viscosity	9.3/68		
pH / Fluid Loss	9.5/6.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.50@90F		
Rmf @ Meas. Temp	1.13@90F		
Rmc @ Meas. Temp	1.80@90F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	1.10@123F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	3:00 A.M.		
Maximum Recorded Temperature	123F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KIM SHOEMAKER		

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
DIGHTON, KS. 8E. ON HWY 96 PAST MM #94, 1/4S. INTO @TANK BATTERY



SUPERIOR
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MAIN SECTION

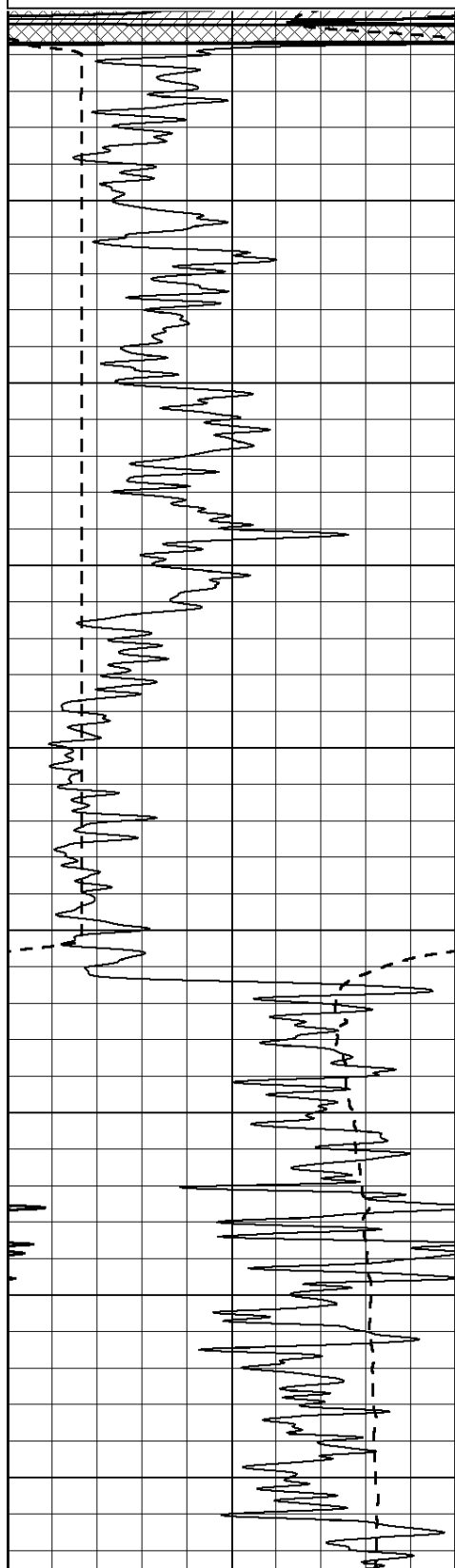
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 Dataset Pathname: pass4.4
 Presentation Format: dil2
 Dataset Creation: Tue Mar 29 05:01:25 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

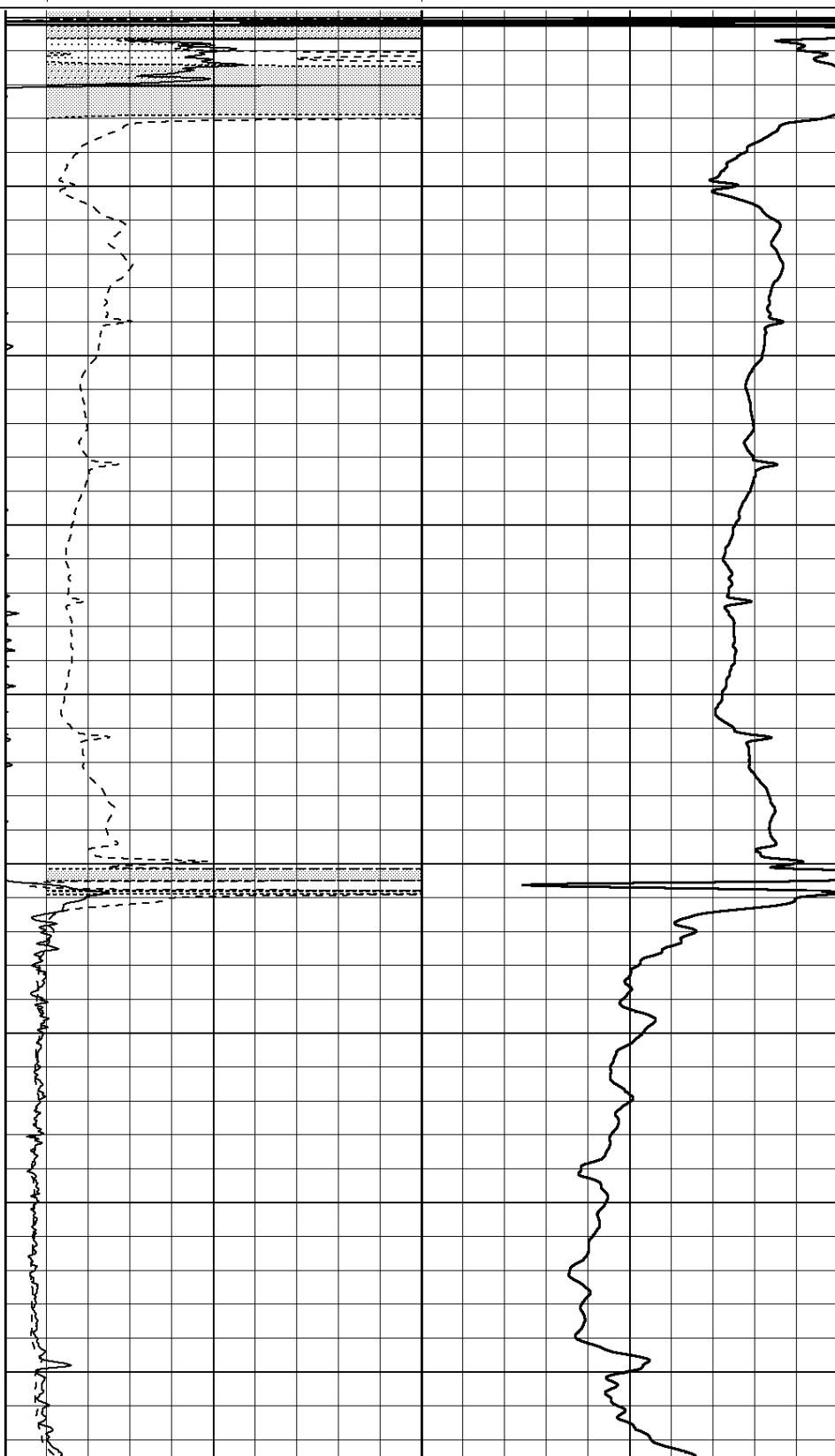
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0	RILD (Ohm-m)	50

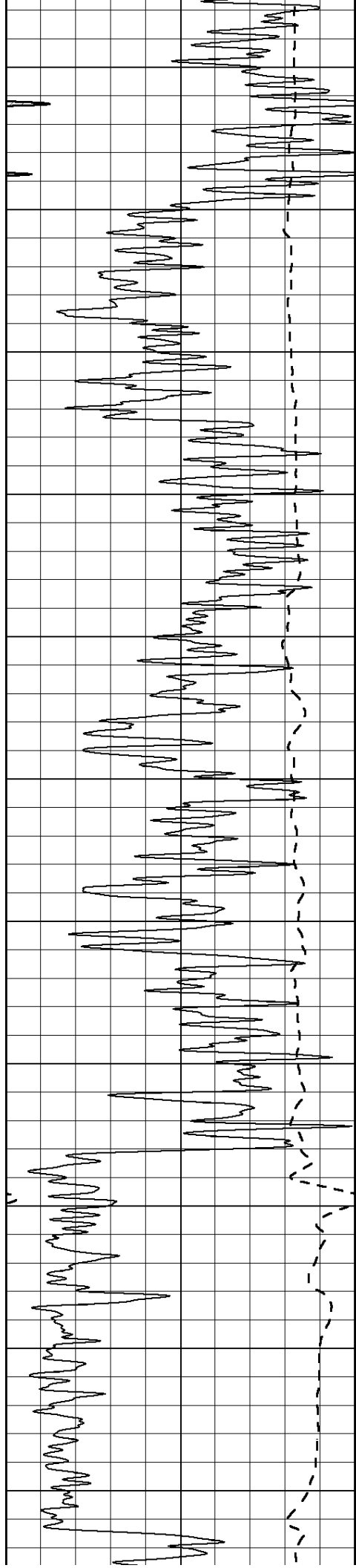
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

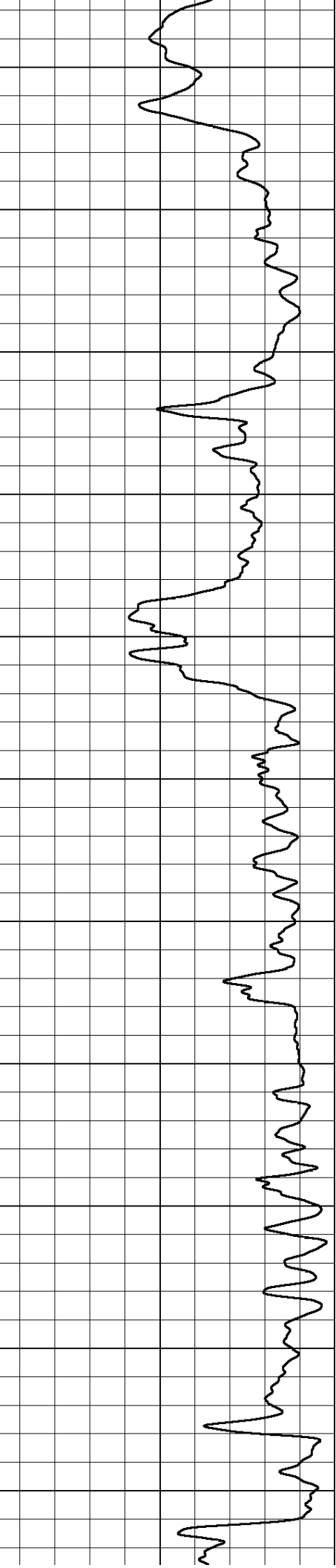
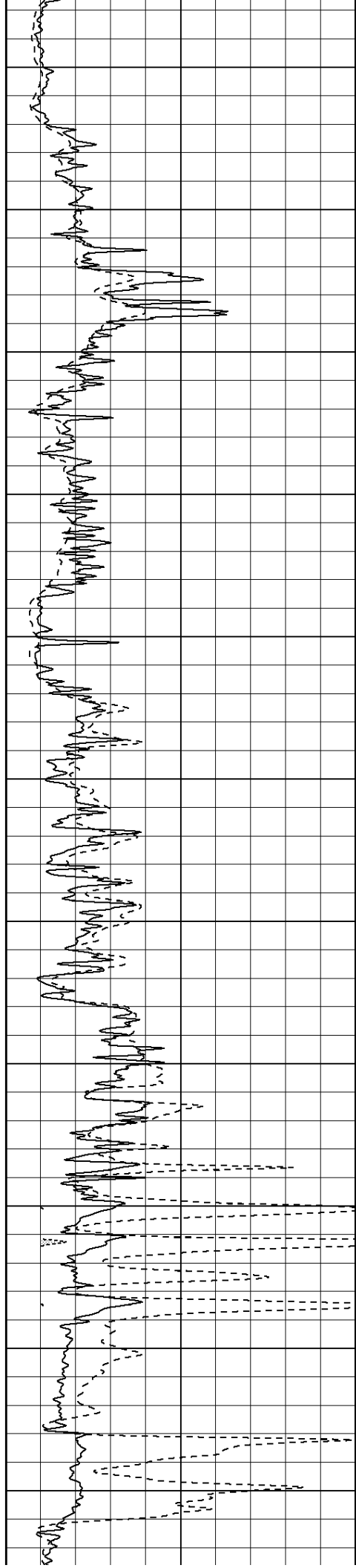
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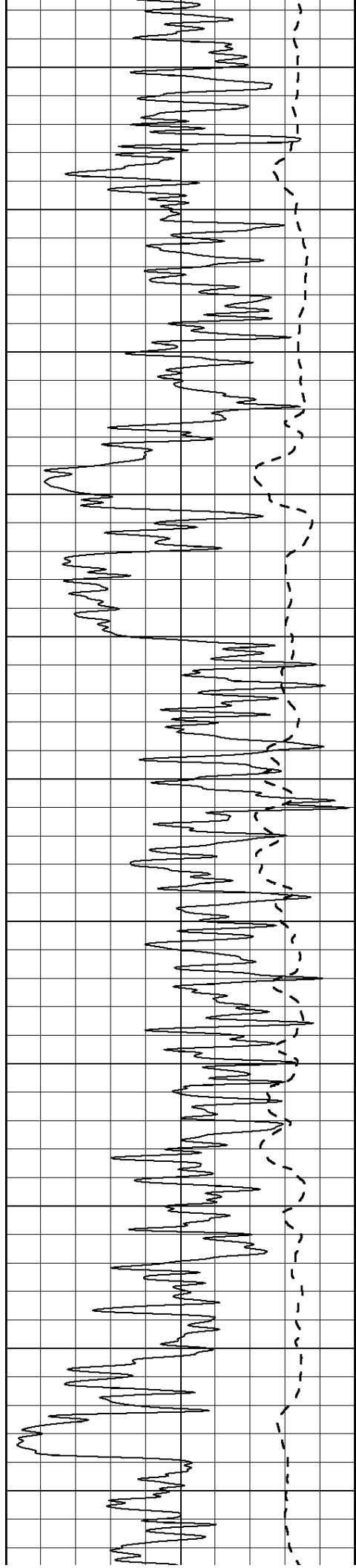
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850

900

950





1000

1050

1100

1150

1200

1250

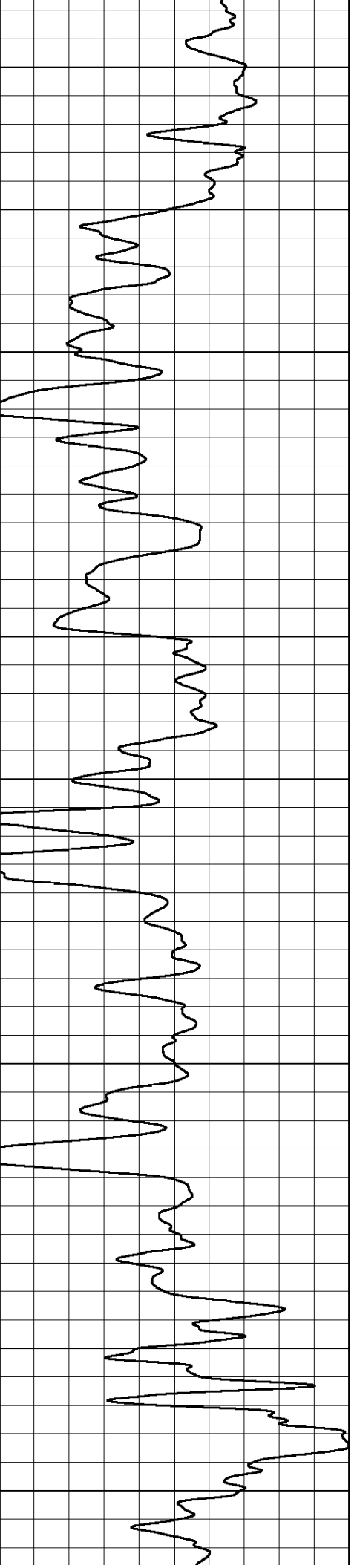
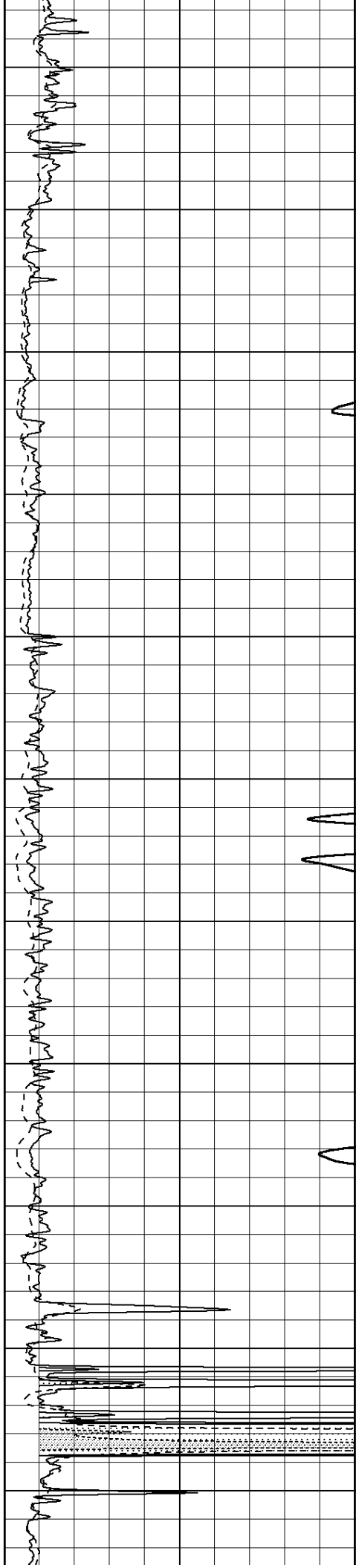
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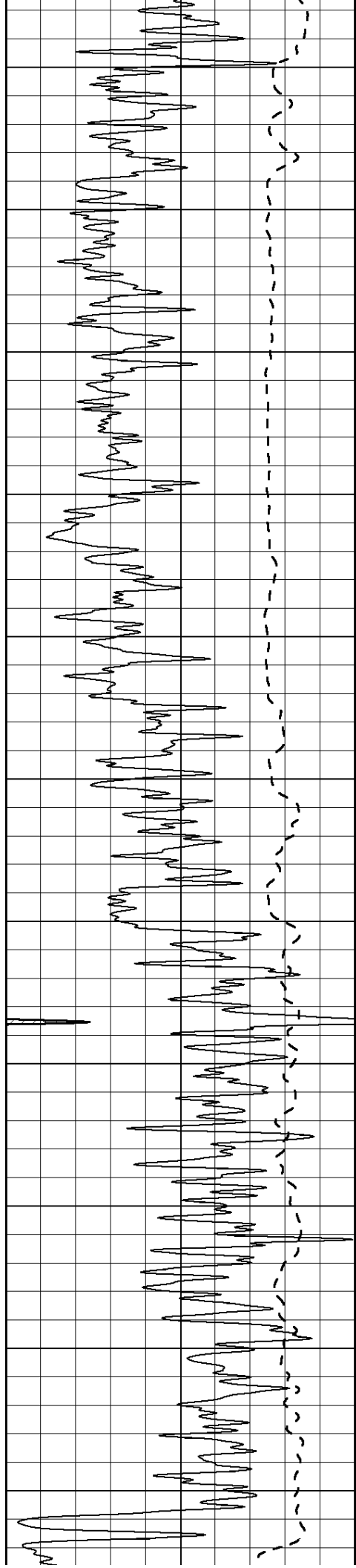
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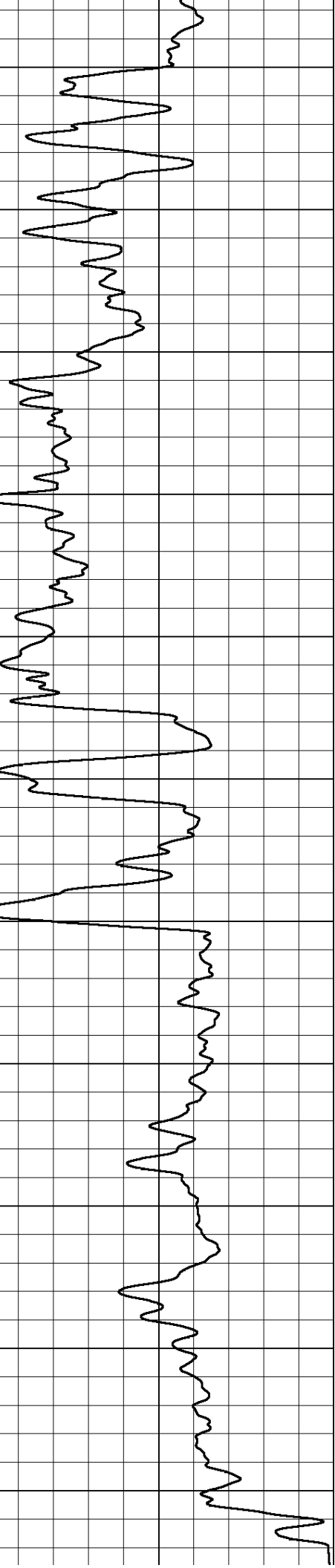
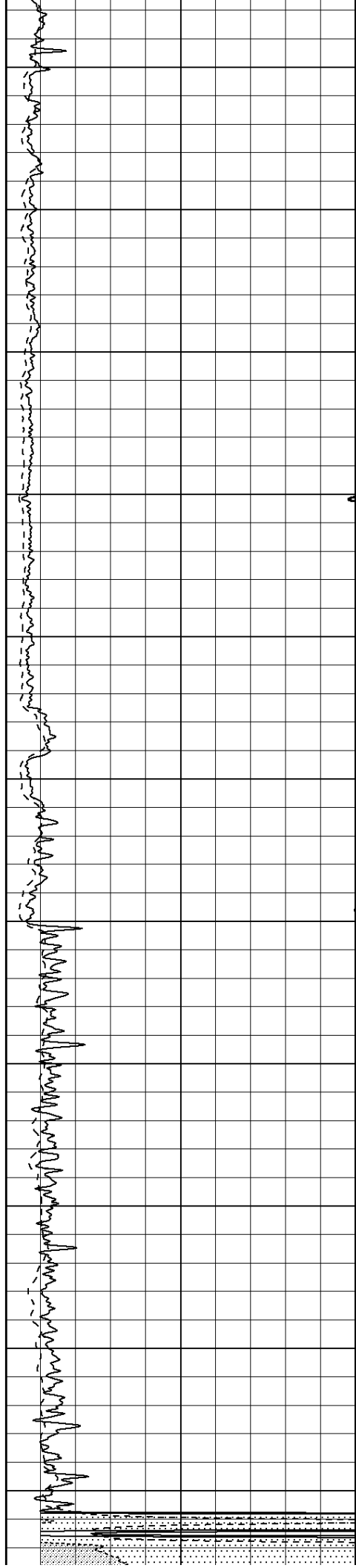
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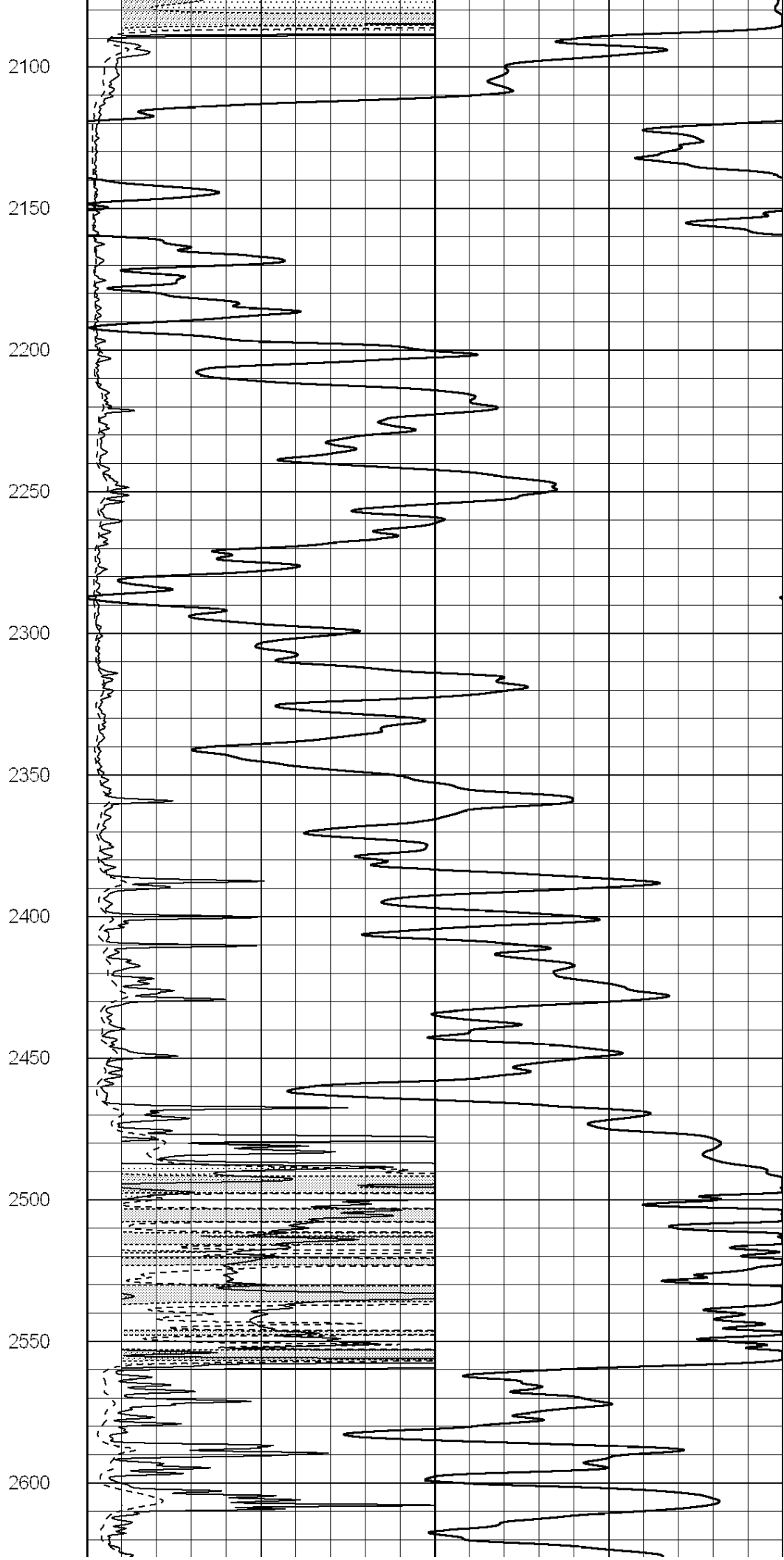
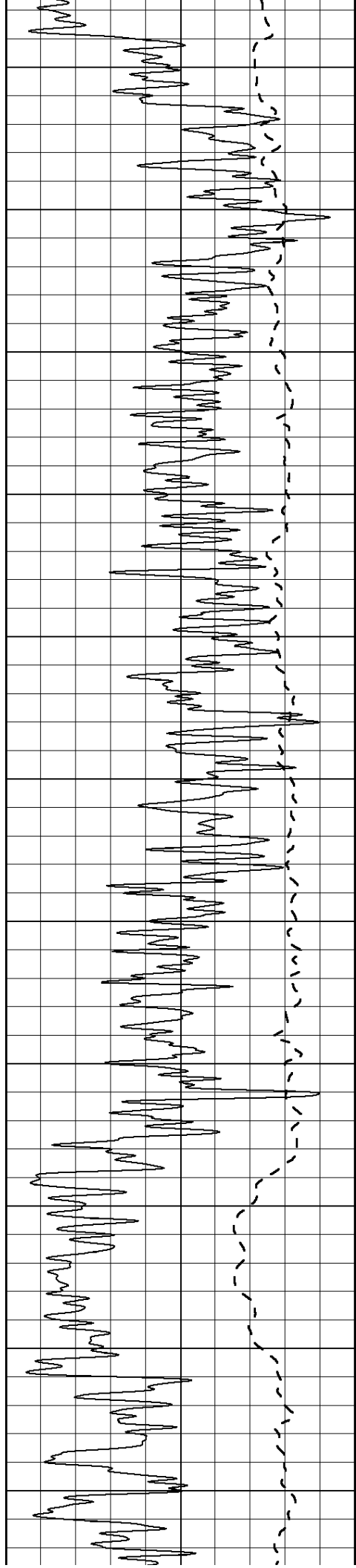
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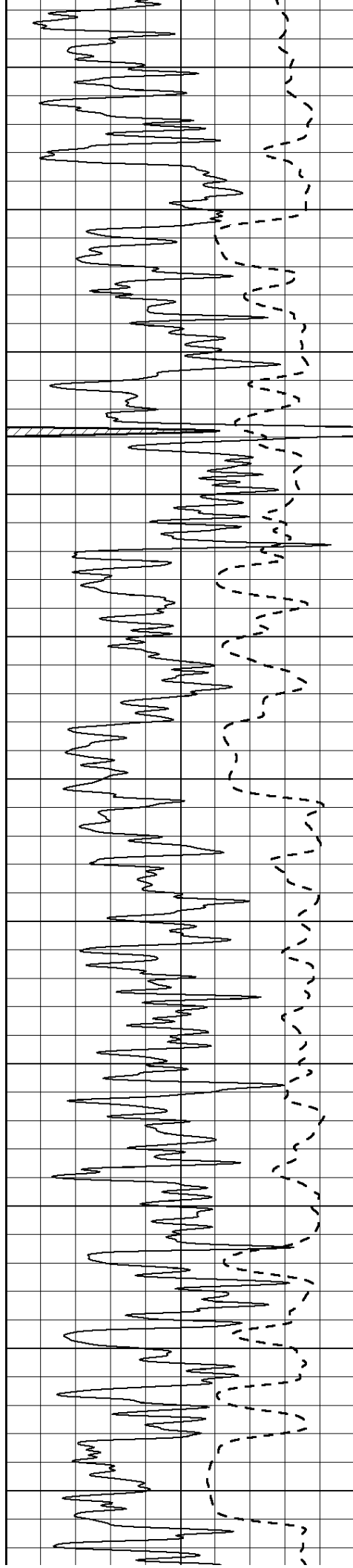




1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050







2650

2700

2750

2800

2850

2900

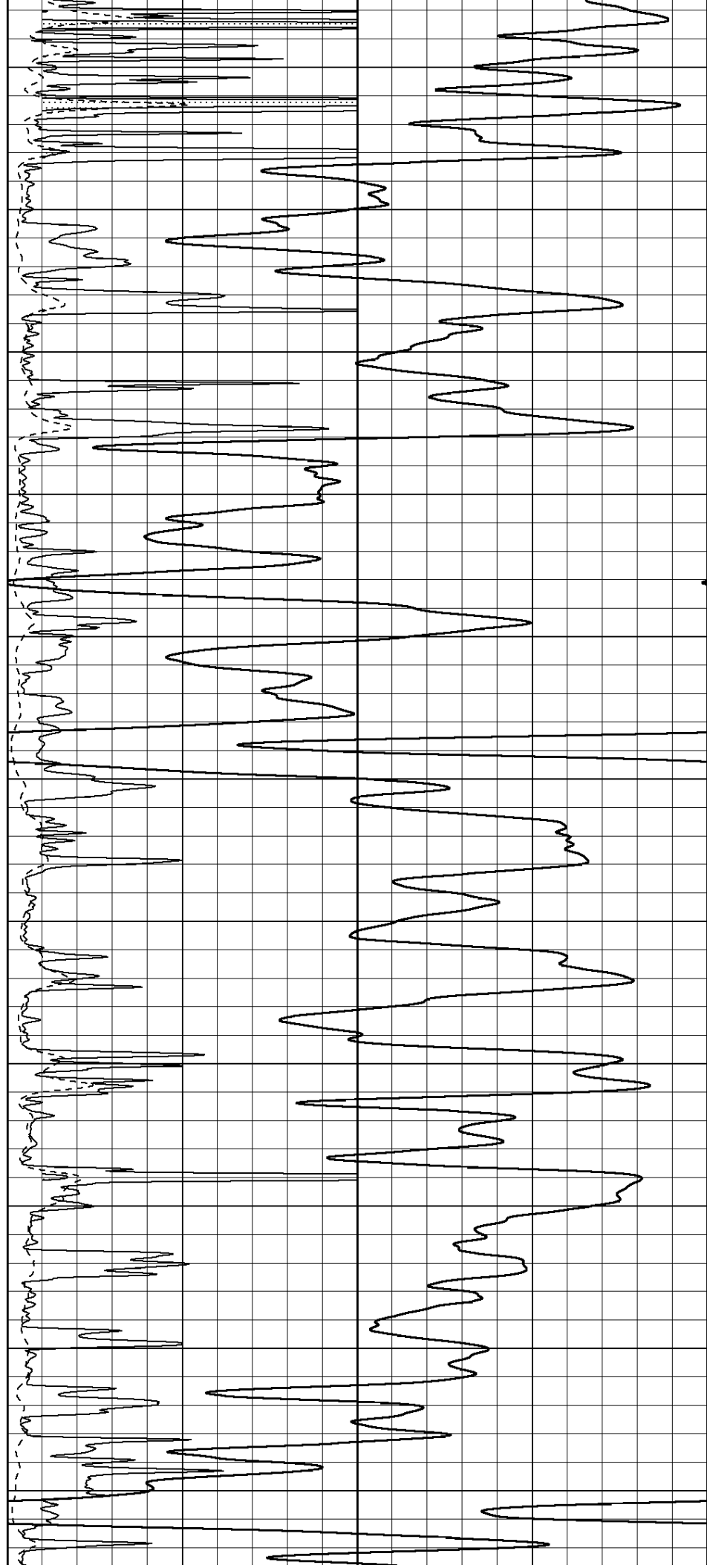
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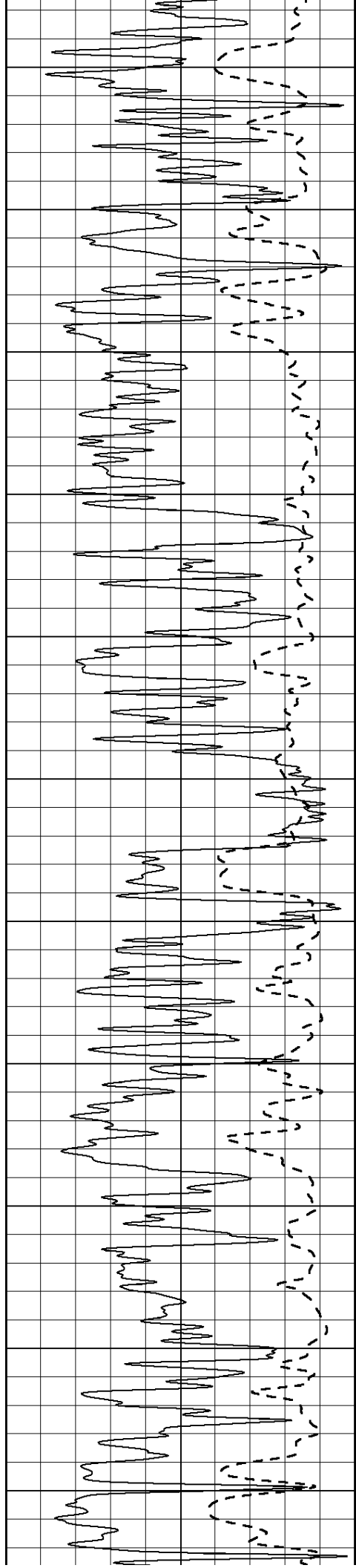
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3050

3100

3150





3200

3250

3300

3350

3400

3450

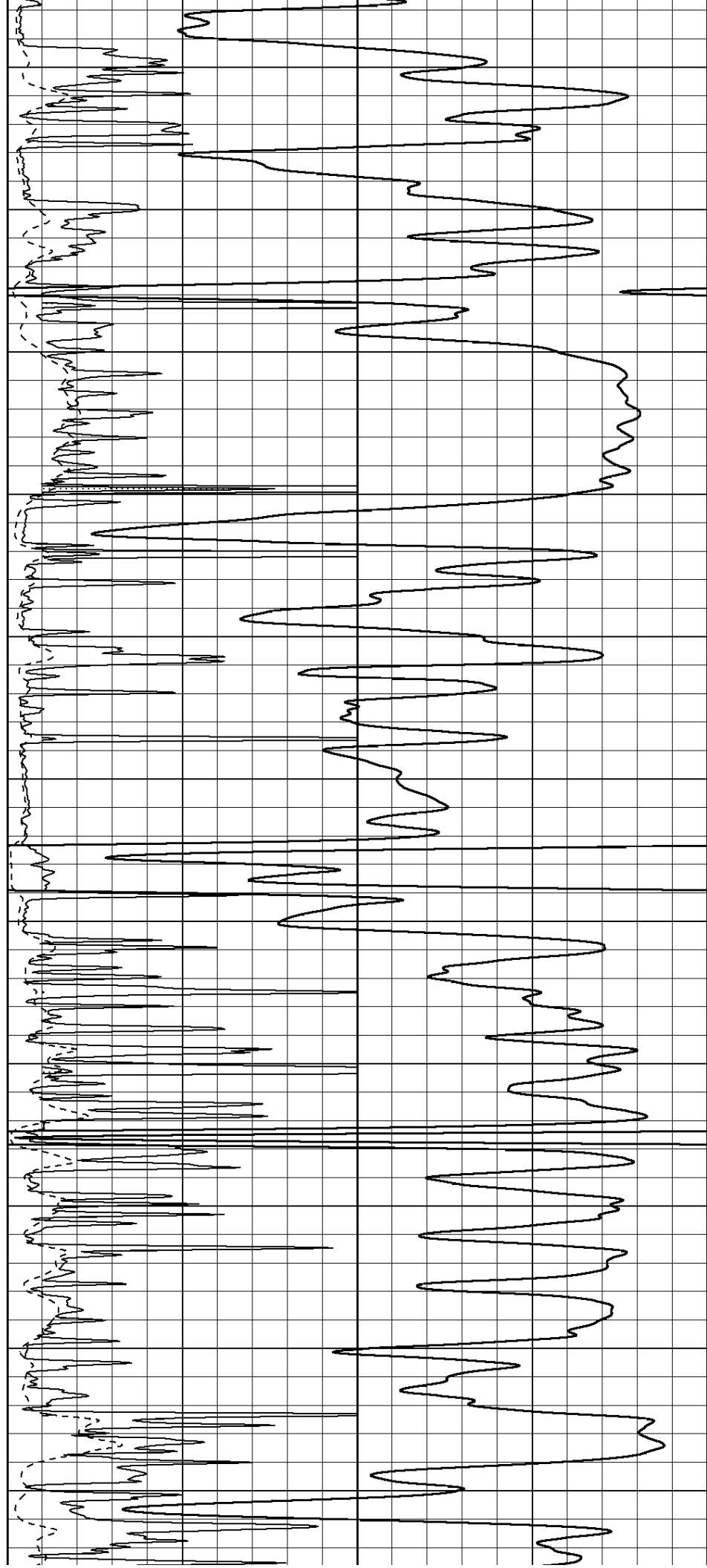
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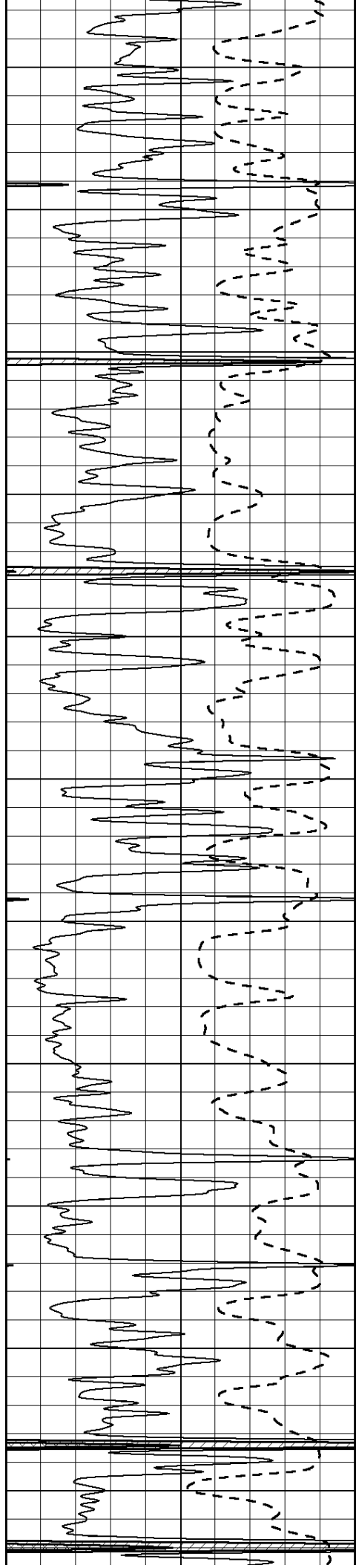
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3700





3750

3800

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3900

3950

4000

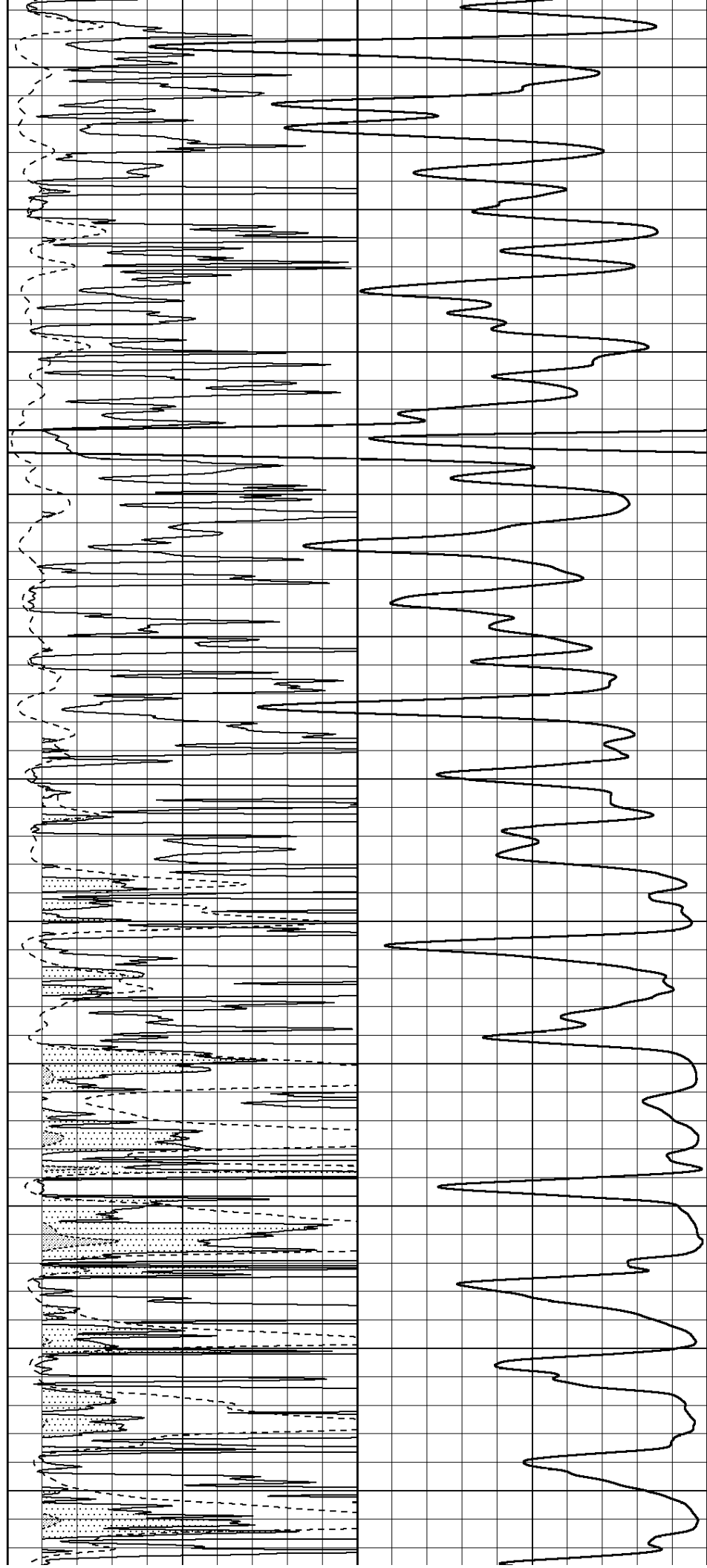
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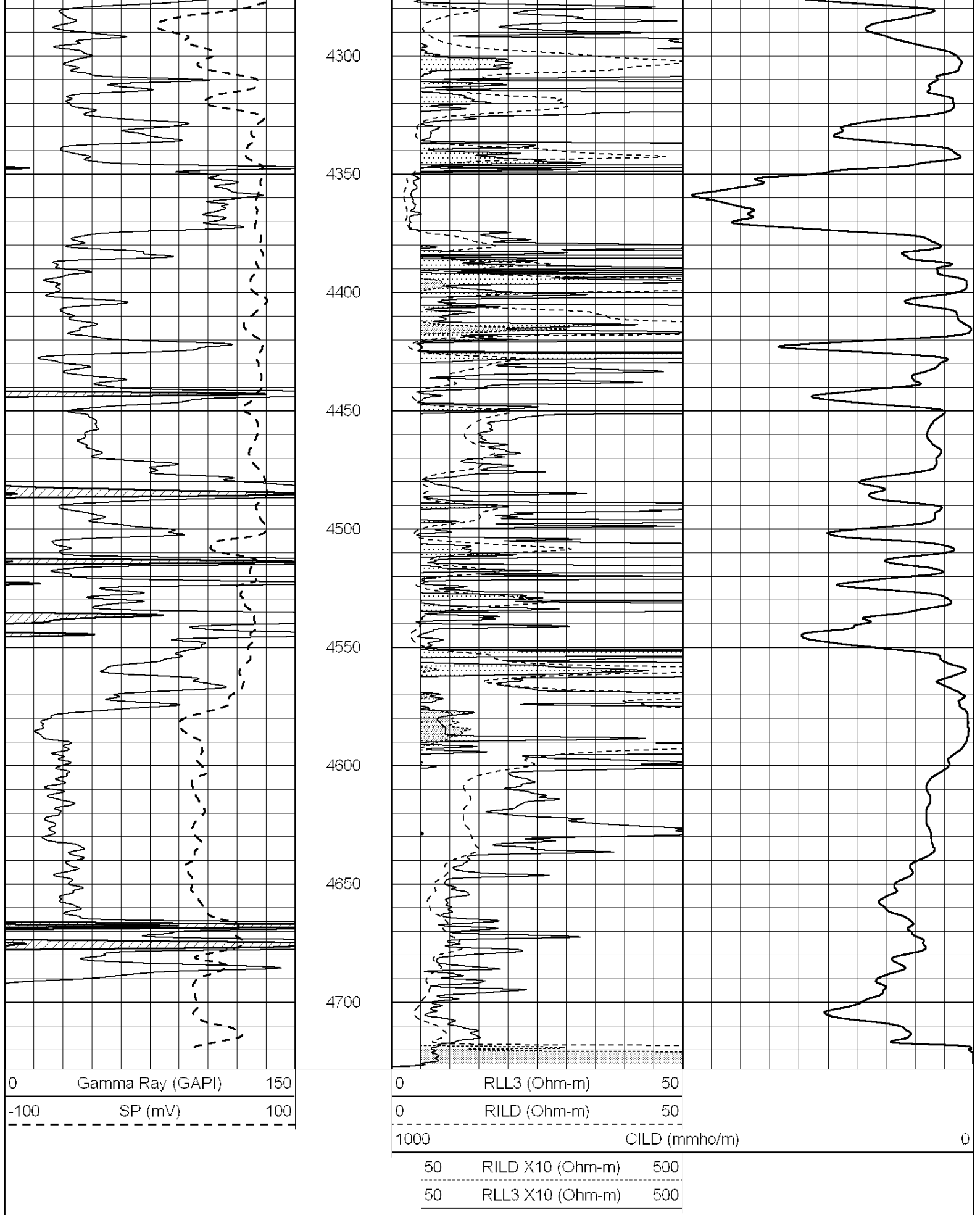
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4150

4200

4250







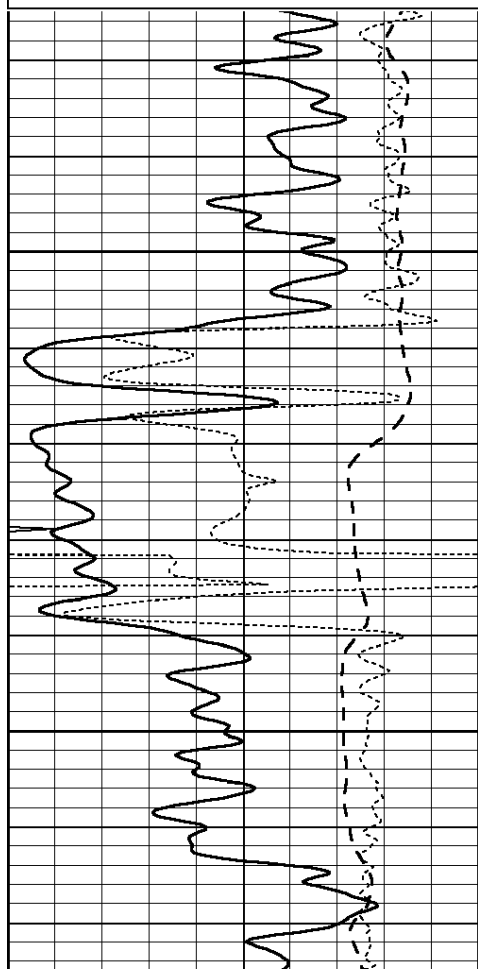
Hays,
Kansas

ANHYDRITE

Database File: 006623ddn.db
Dataset Pathname: pass4.6
Presentation Format: dil
Dataset Creation: Tue Mar 29 05:06:04 2011
Charted by: Depth in Feet scaled 1:240

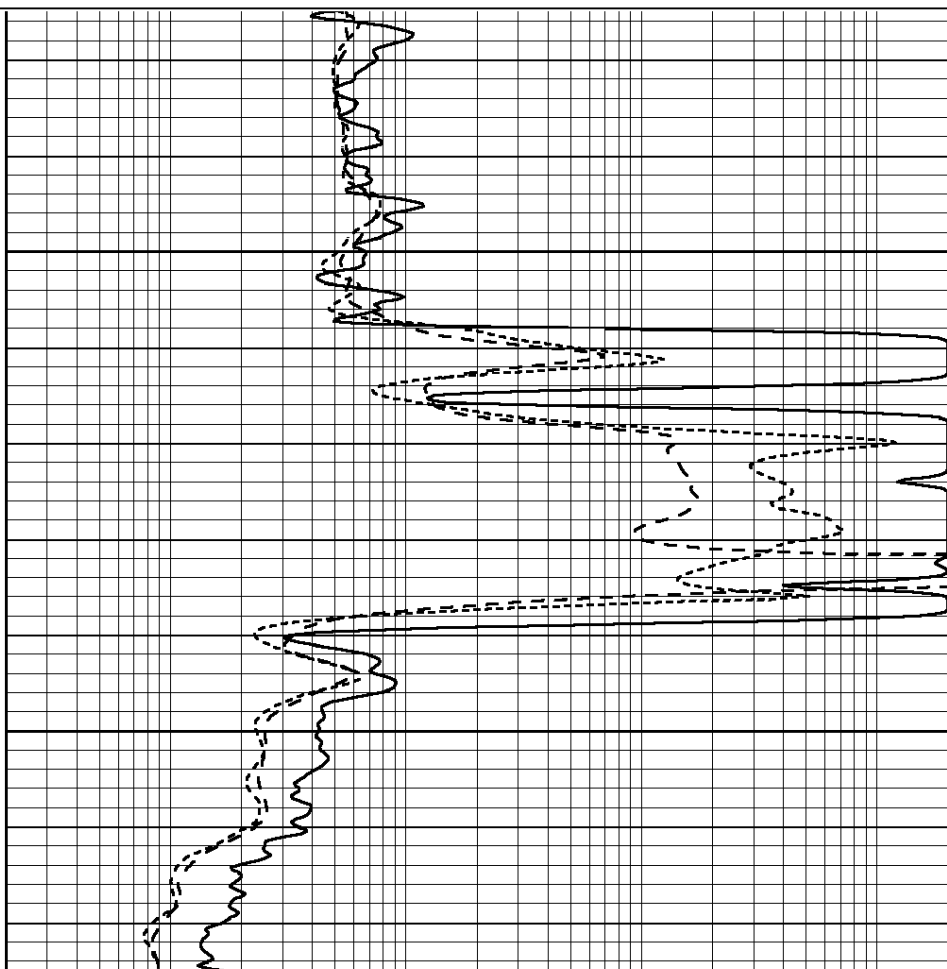
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

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



2050

2100



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

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



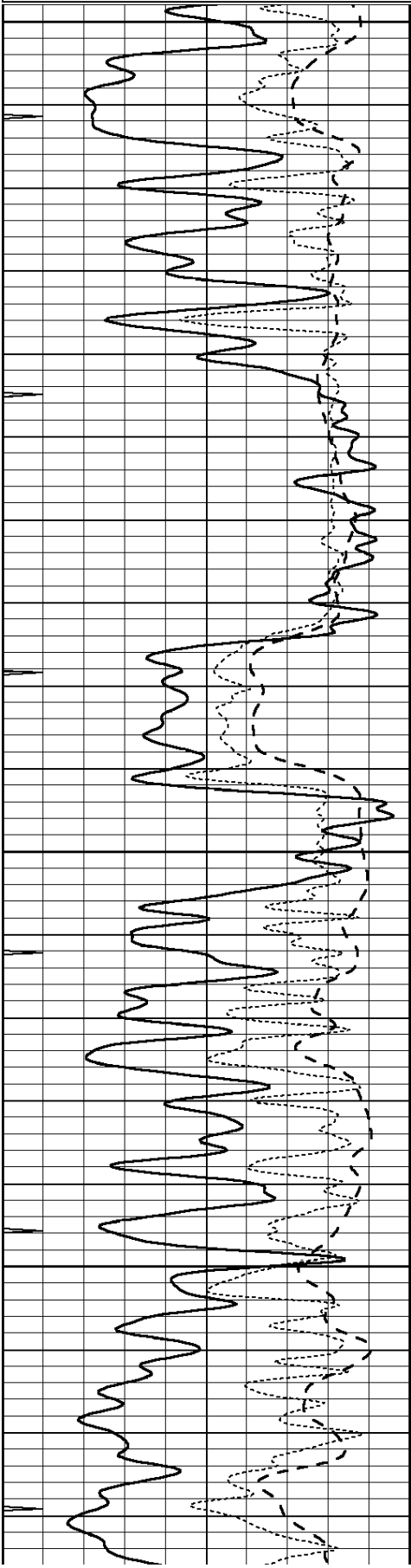
SUPERIOR
Hays,
Kansas

MAIN SECTION

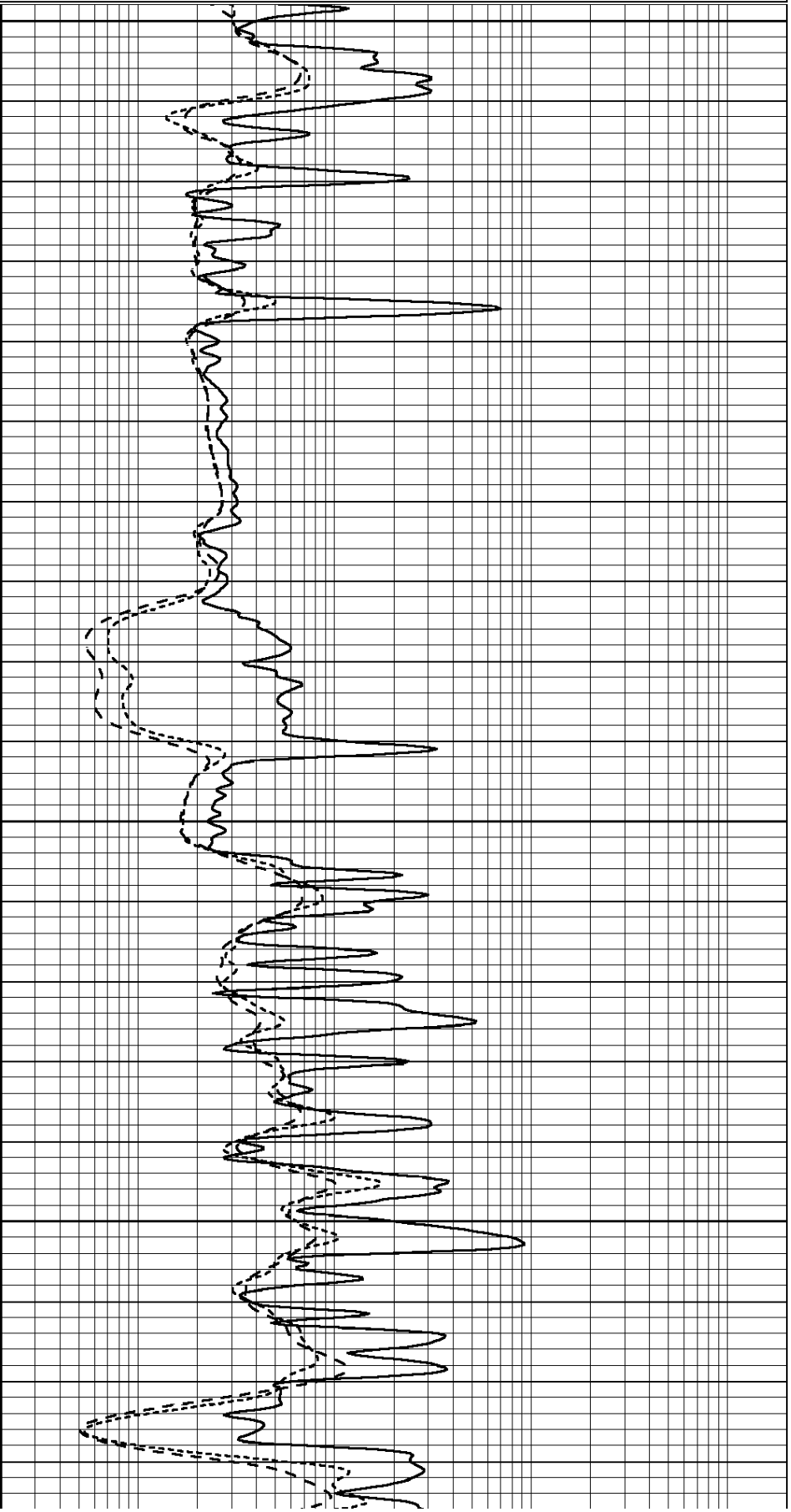
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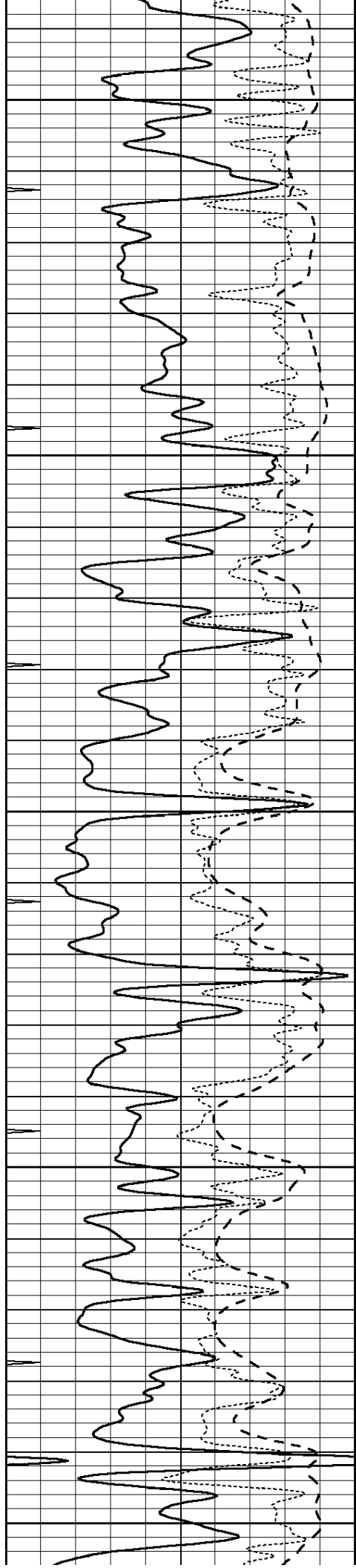
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

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



3400
3450
3500
3550





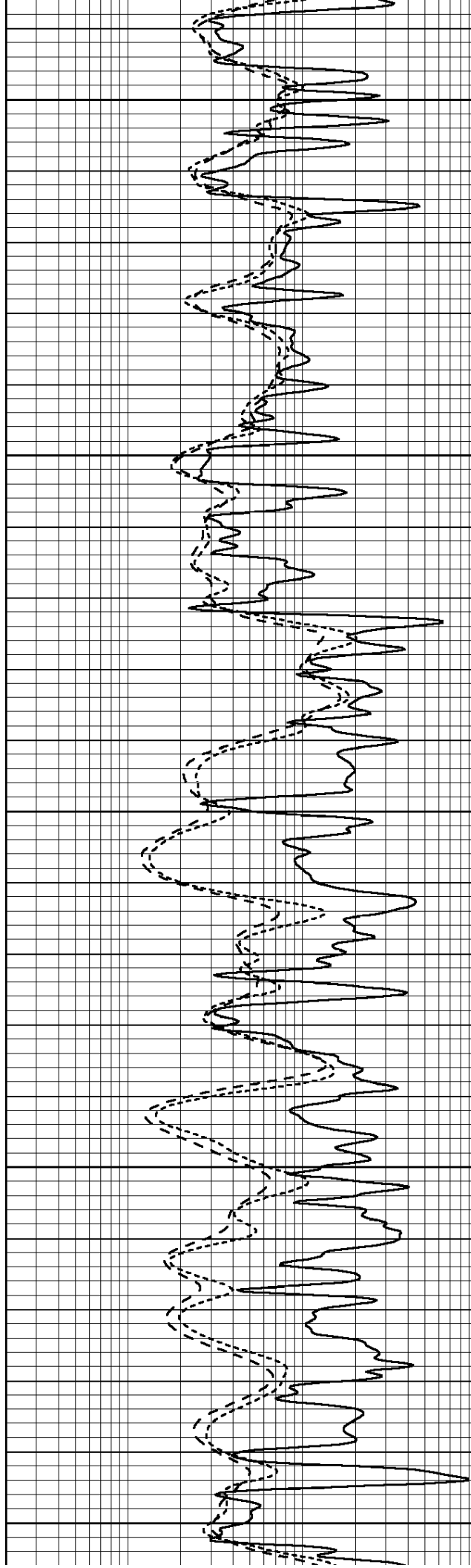
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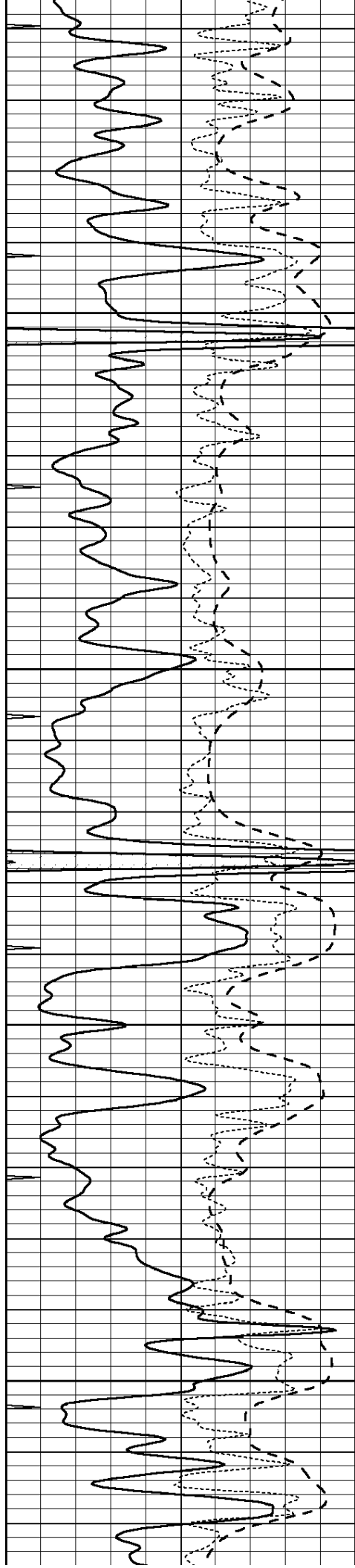
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3700

3750

3800



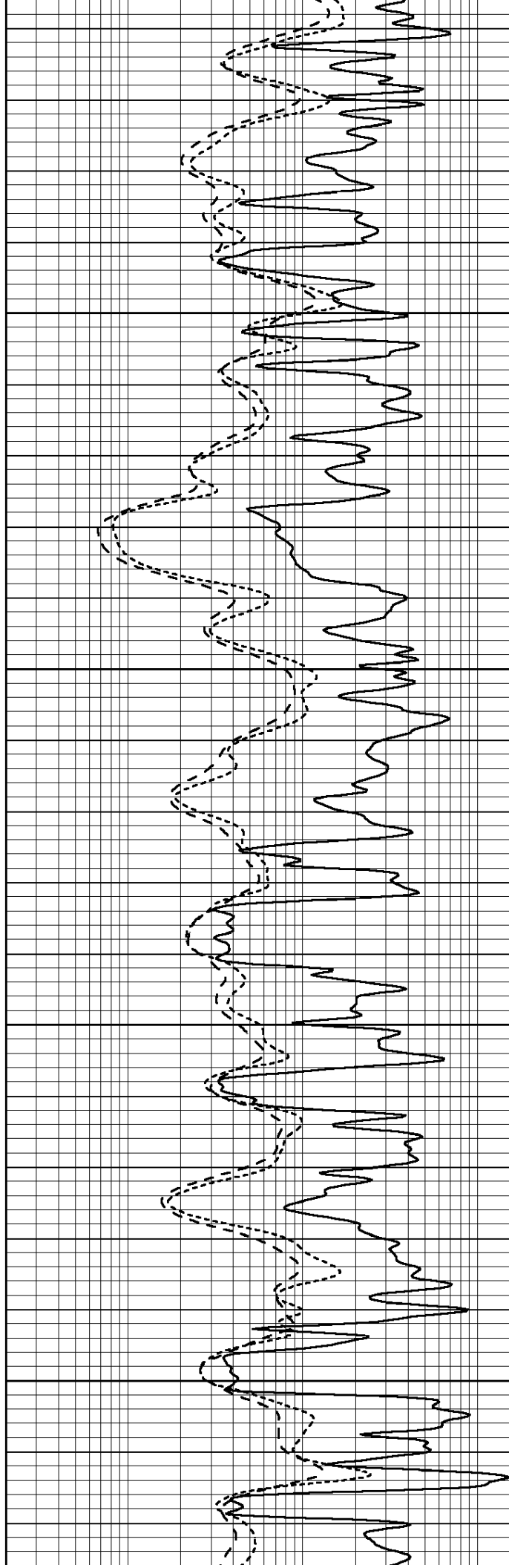


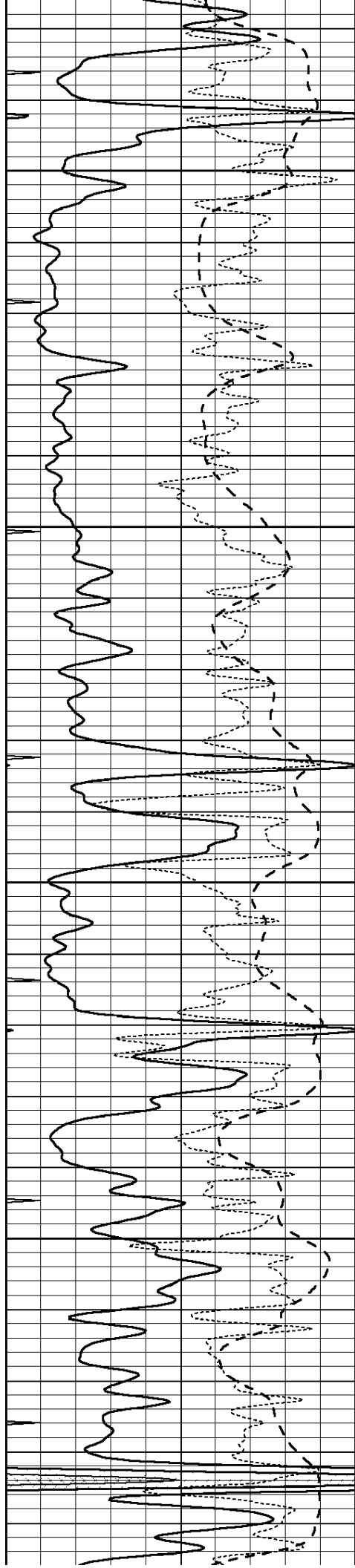
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3900

3950

4000



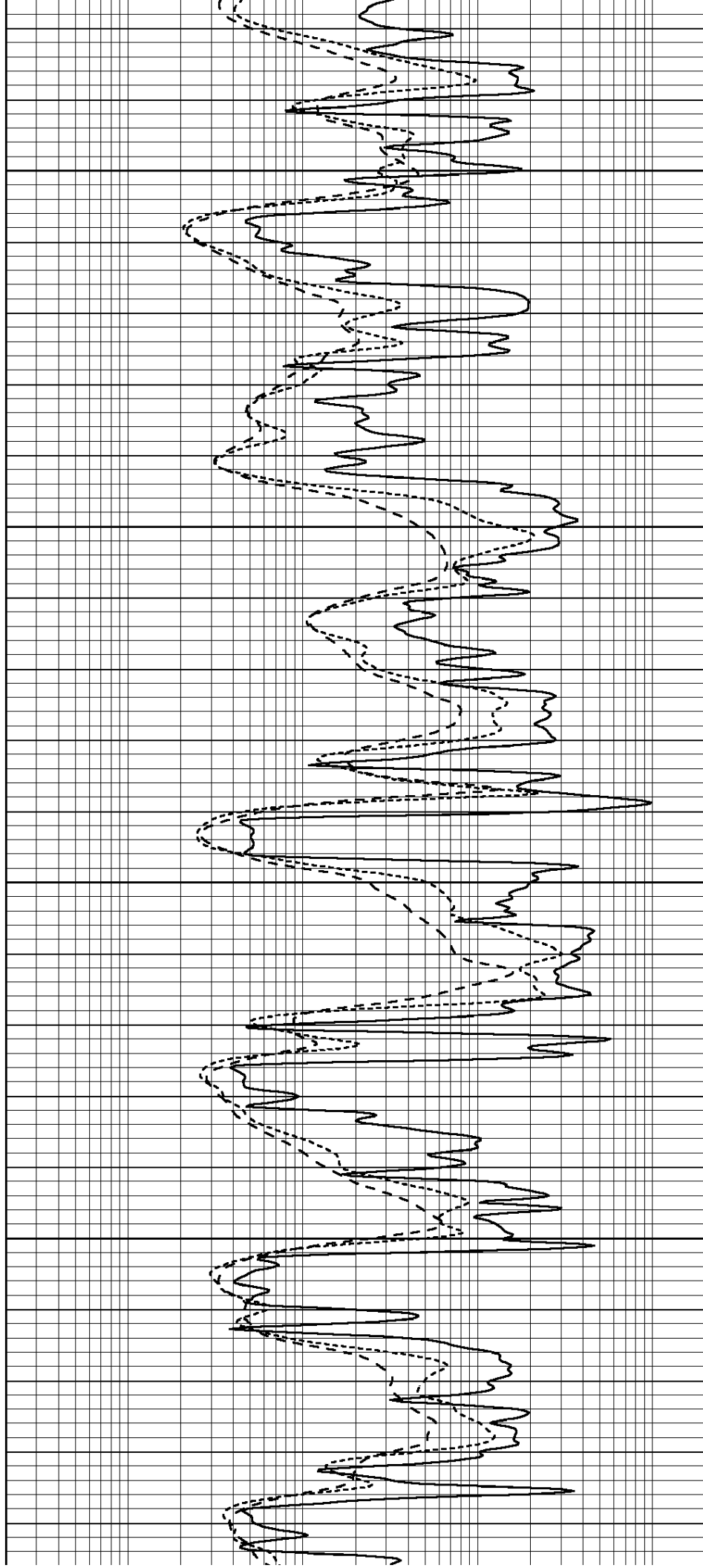


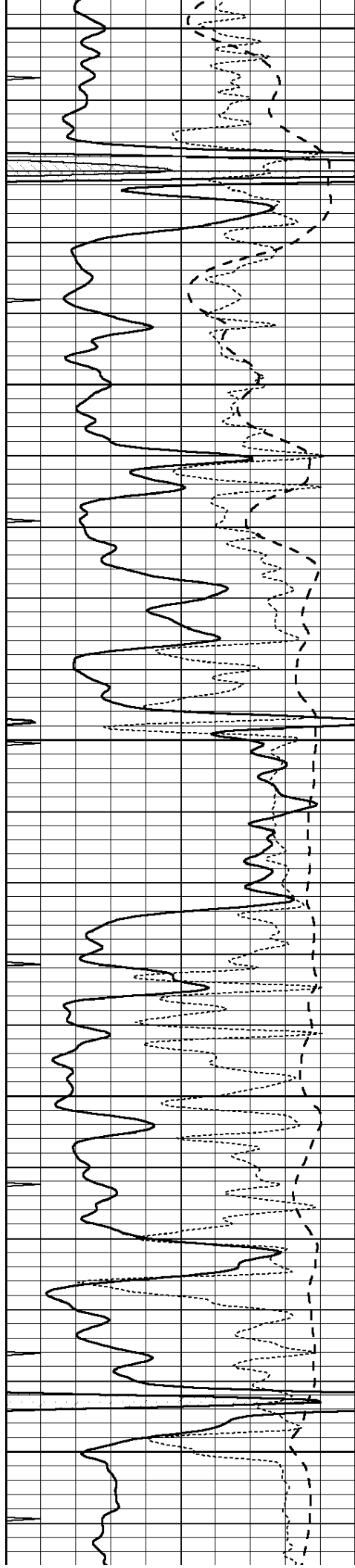
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4100

4150

4200





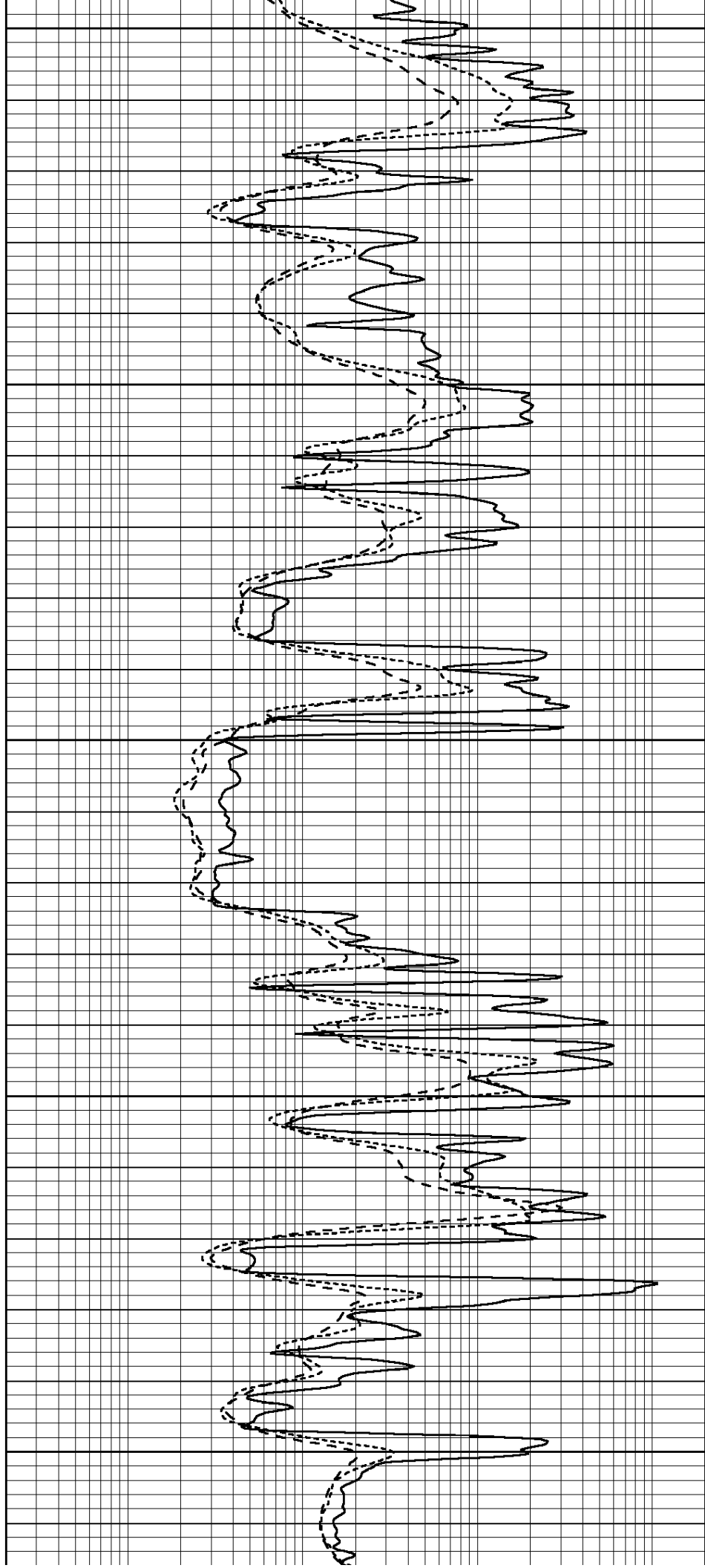
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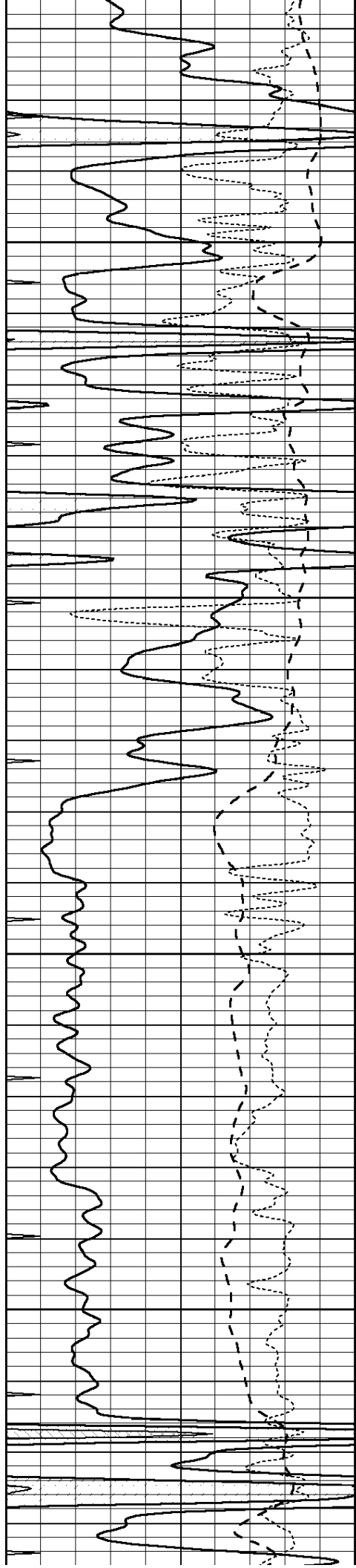
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4400

4450



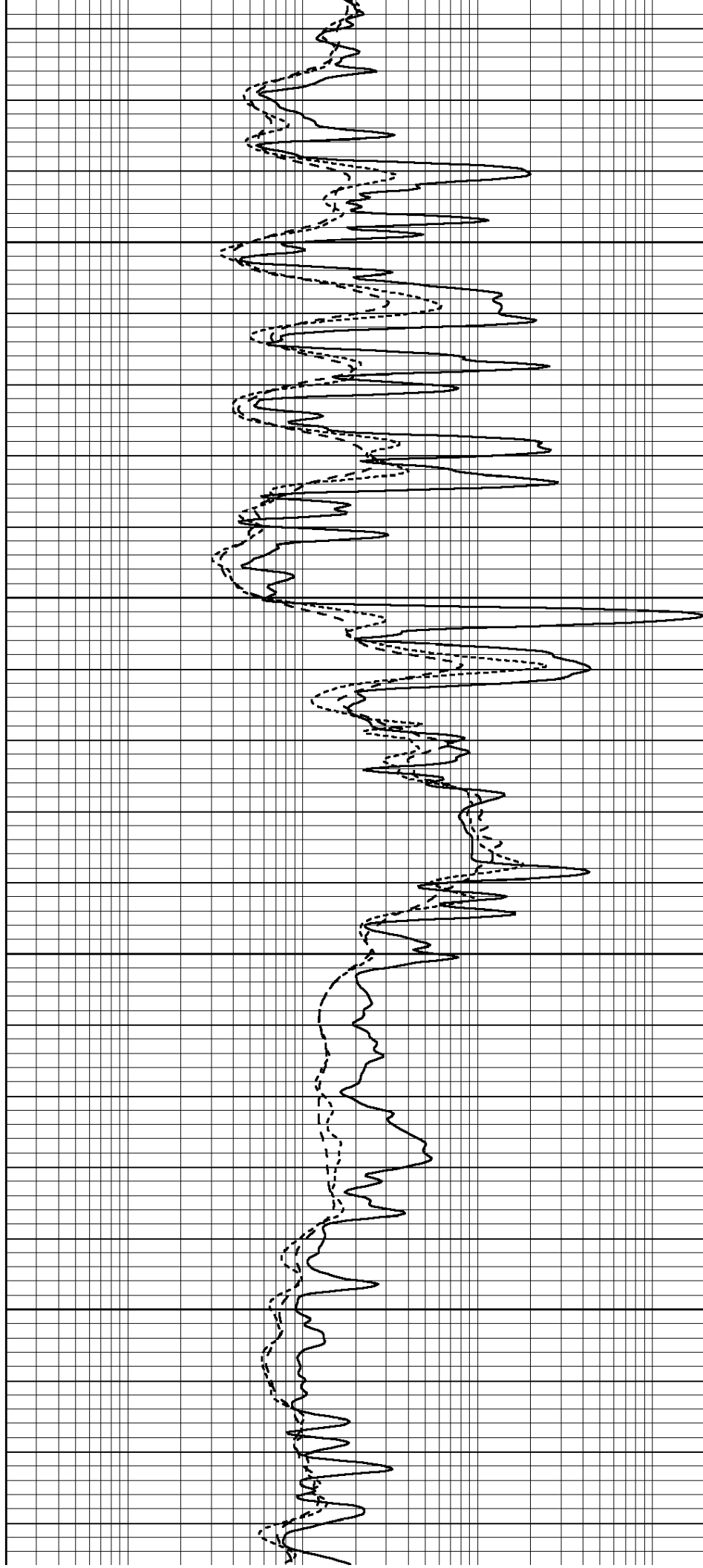


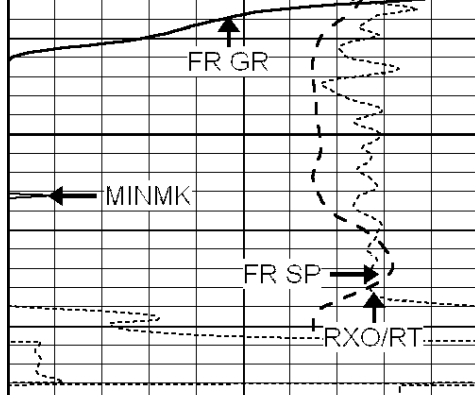
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4550

4600

4650

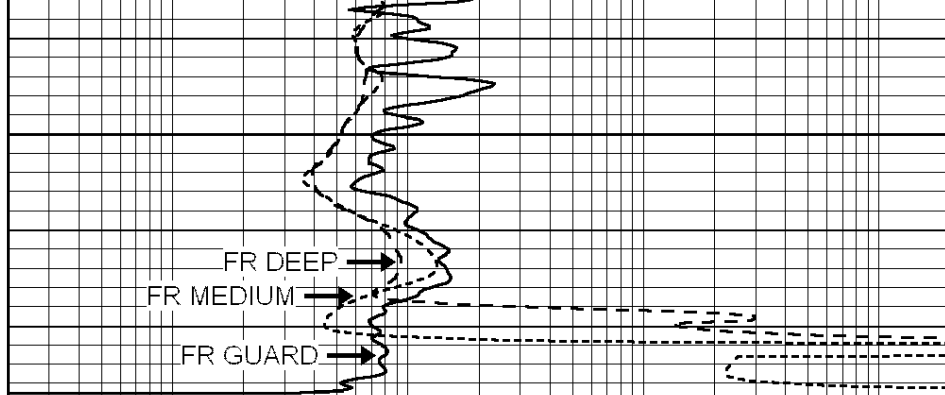




4700

LTD 4725

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10



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



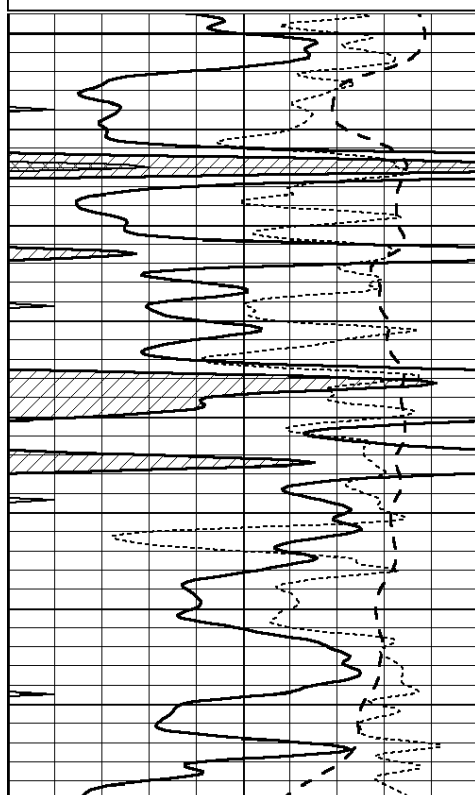
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 006623ddn.db
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 Presentation Format: dil
 Dataset Creation: Tue Mar 29 04:31:04 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

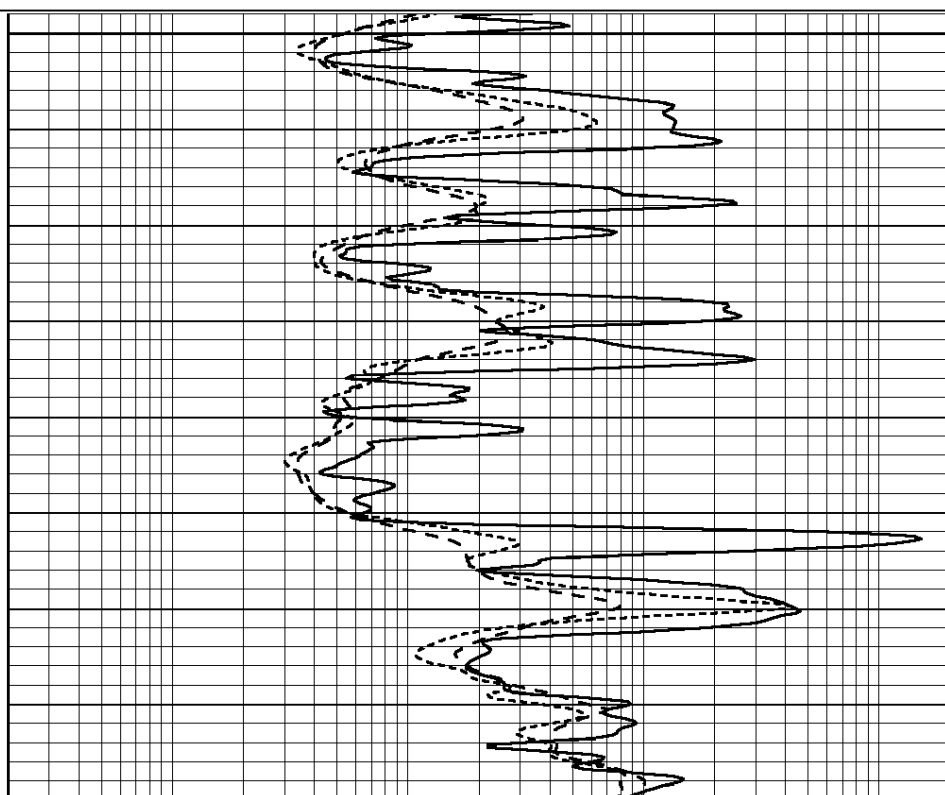
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-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

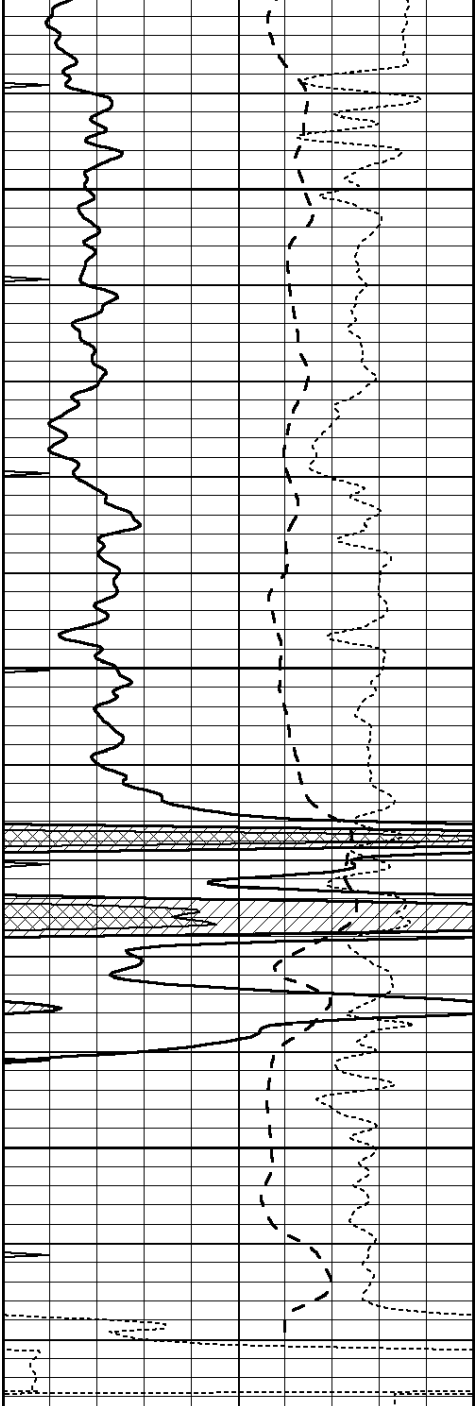
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



4500

4550



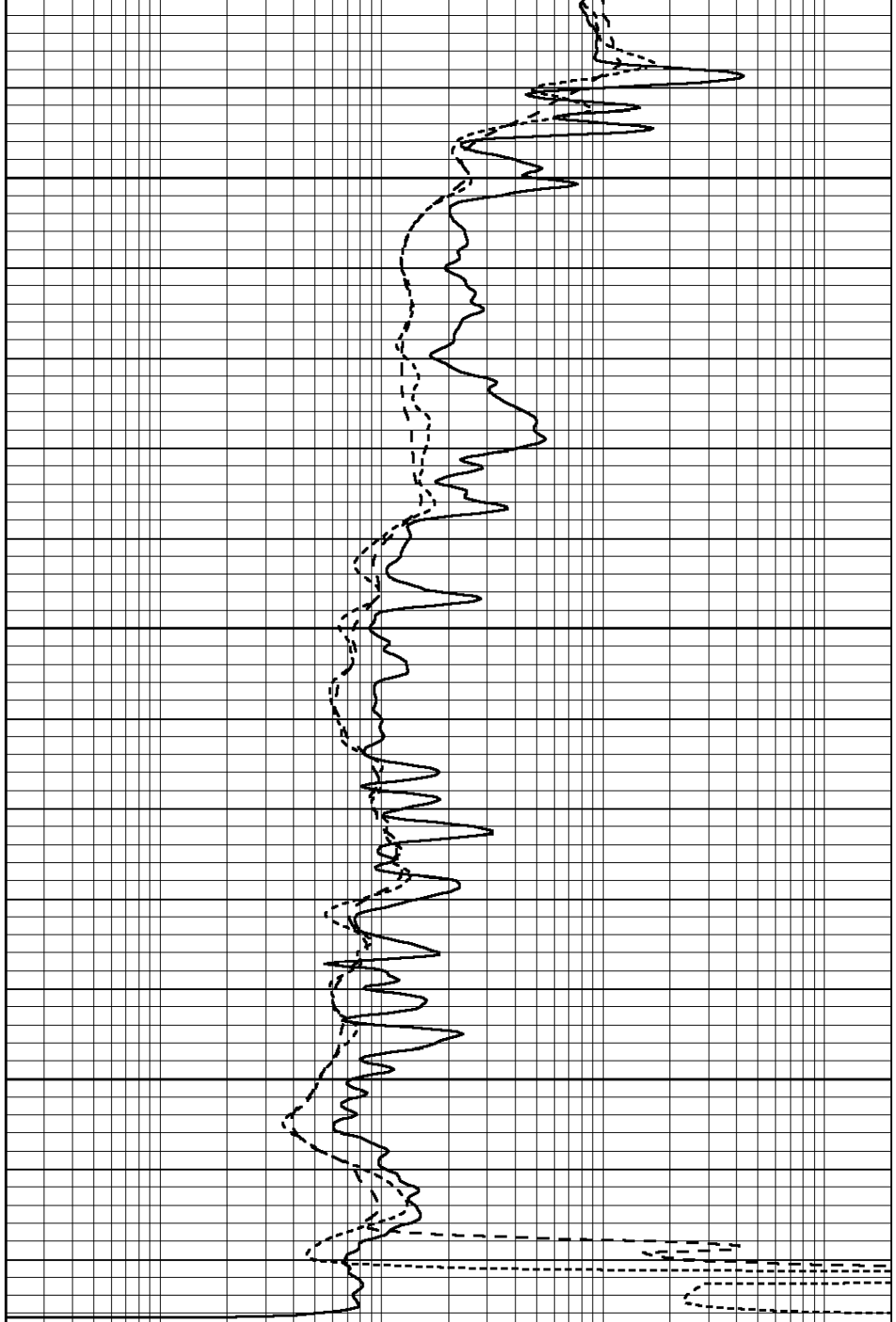


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

4600

4650

4700



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: 006623ddn.db
Dataset Pathname: pass4.4
Dataset Creation: Tue Mar 29 05:01:25 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL6-GEAR
Performed: Tue Mar 29 02:36:46 2011

Readings

References

Results

Loop:	Air	Loop	Air	Loop	m	b
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Deep	0.001	0.644	V	0.000	400.000	mmho/m	660.000	-4.000
Medium	0.020	0.738	V	0.000	462.500	mmho/m	740.000	-21.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	1.000	V	0.000	1.000	mmho/m	1.000	0.000
Medium	0.000	1.000	V	0.000	1.000	mmho/m	1.000	0.000

Litho Density Calibration Report
Serial: 003N Model: PRB
Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper

	Readings	Reference	
Low Ref	2.1	6.6	
High Ref	4.4	14.0	
	Gain: 3.2		Offset: -0.1

Compensated Neutron Calibration Report

Serial Number: NEU_4I
Tool Model: G

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	996.00 cps	1000.00 cps	1.0000
Long Space	977.00 cps	1000.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number: GR3
Tool Model: OPEN
Performed: Tue Mar 29 03:20:19 2011

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
Calibrator Reading: 186.0 cps

Sensitivity: 1.6500 GAPI/cps