



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	MAI OIL OPERATIONS INC.	Company	MAI OIL OPERATIONS, INC.
Well	DECHANT #1	Well	DECHANT #1
Field	BINDLEY	Field	BINDLEY
County	HODGEMAN	County	HODGEMAN
State	KANSAS	State	KANSAS
Location:	AP1 # : 15-083-21710-0000	Other Services	CDL/CNL MEL
Permanent Datum	GROUND LEVEL	Elevation	2451
Log Measured From	KELLY BUSHING 12' A.G.L.	K.B. 2463	
Drilling Measured From	KELLY BUSHING	D.F. 2461	
		G.L. 2451	
Date	6/24/11		
Run Number	ONE		
Depth Driller	4748		
Depth Logger	4746		
Bottom Logged Interval	4744		
Top Log Interval	00		
Casing Driller	8 5/8"@240'		
Casing Logger	236		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,300 PPM	
Density / Viscosity	9.2/46		
pH / Fluid Loss	10.0/10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.650@92F		
Rmt @ Meas. Temp	.486@92F		
Rmc @ Meas. Temp	.780@92F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.486@123F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	1:00 A.M.		
Maximum Recorded Temperature	123F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	STEVE MURPHY		

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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
NESS CITY, KS. 20S. ON HWY 283 TO "RD. R", 3W. TO "T", 1/2 N., E. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 007077ddn.db
Dataset Pathname: pass3.10
Presentation Format: dil2
Dataset Creation: Sat Jun 25 02:30:41 2011
Charted by: Depth in Feet scaled 1:600

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

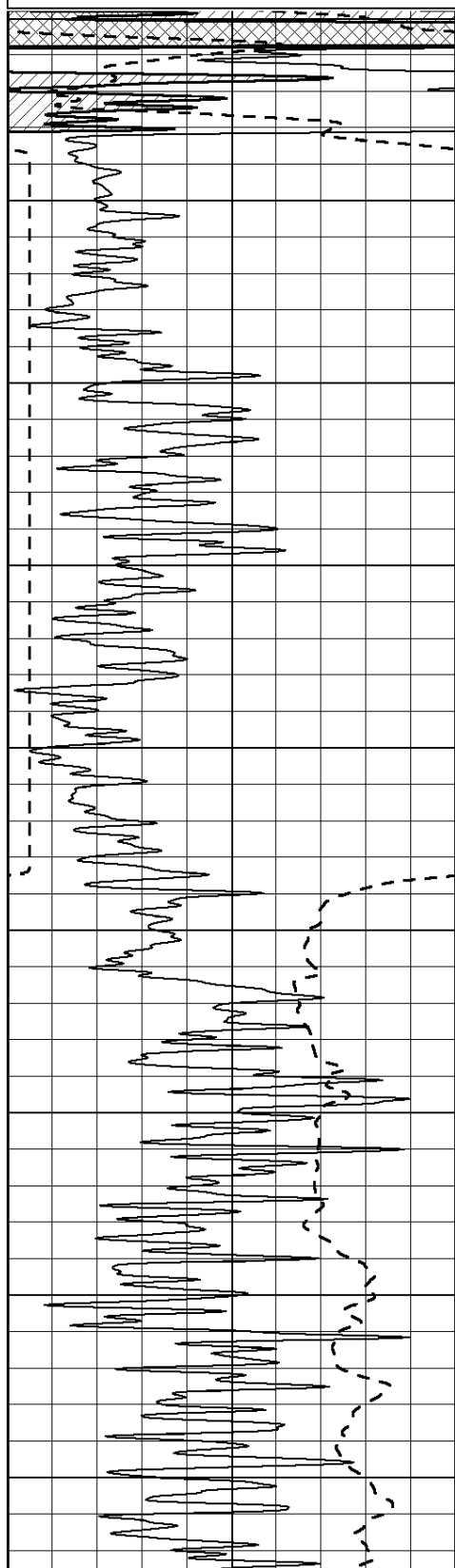
0 RLL3 (Ohm-m) 50

0 RILD (Ohm-m) 50

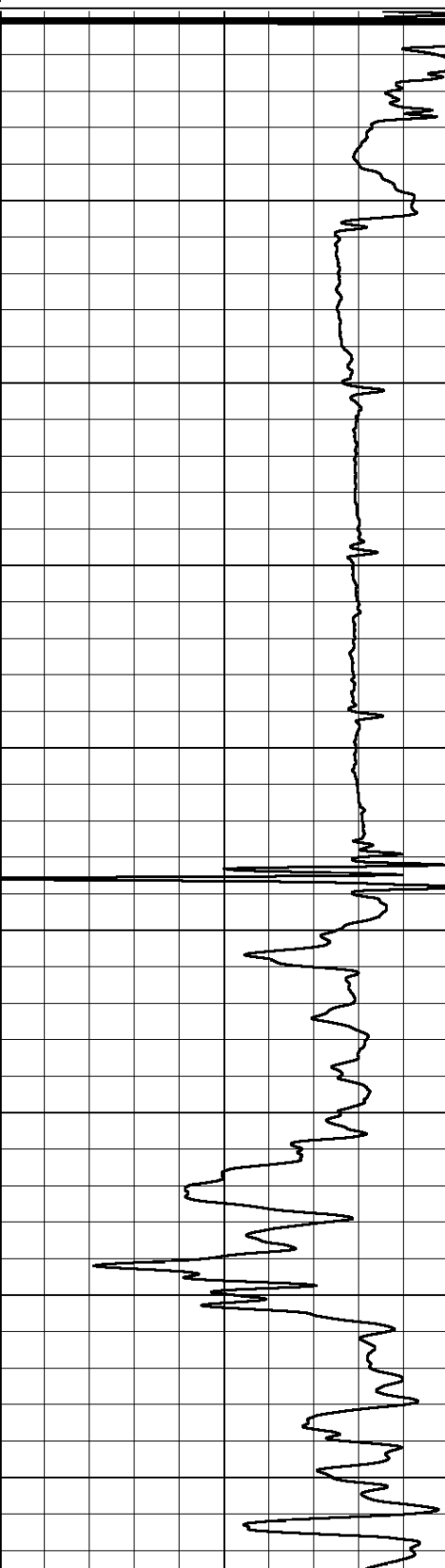
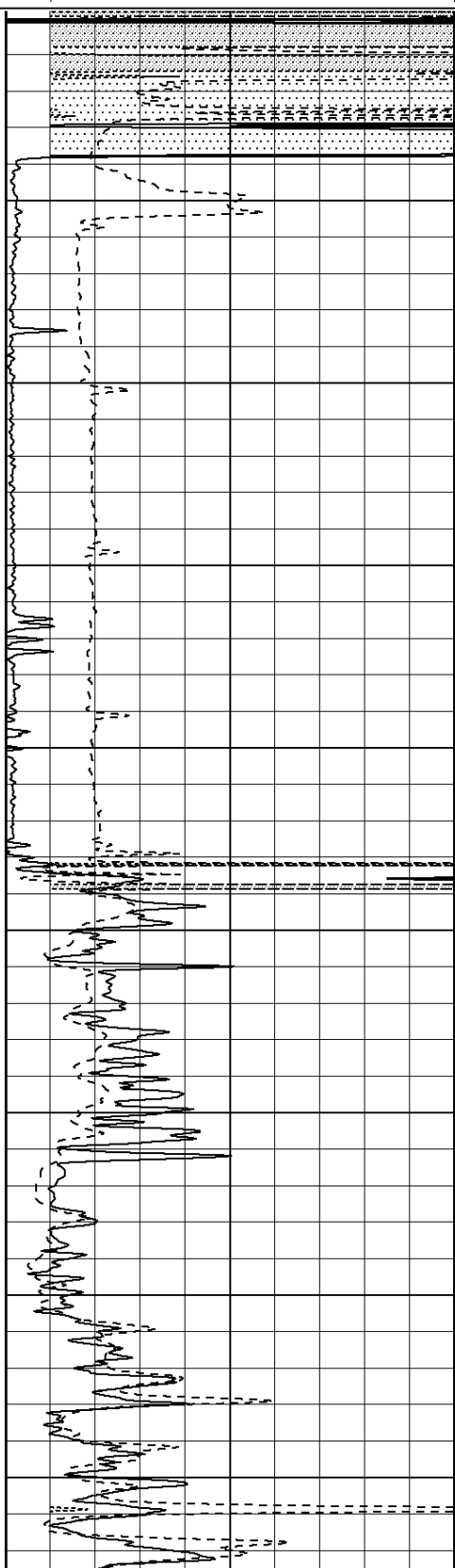
1000 CILD (mmho/m) 0

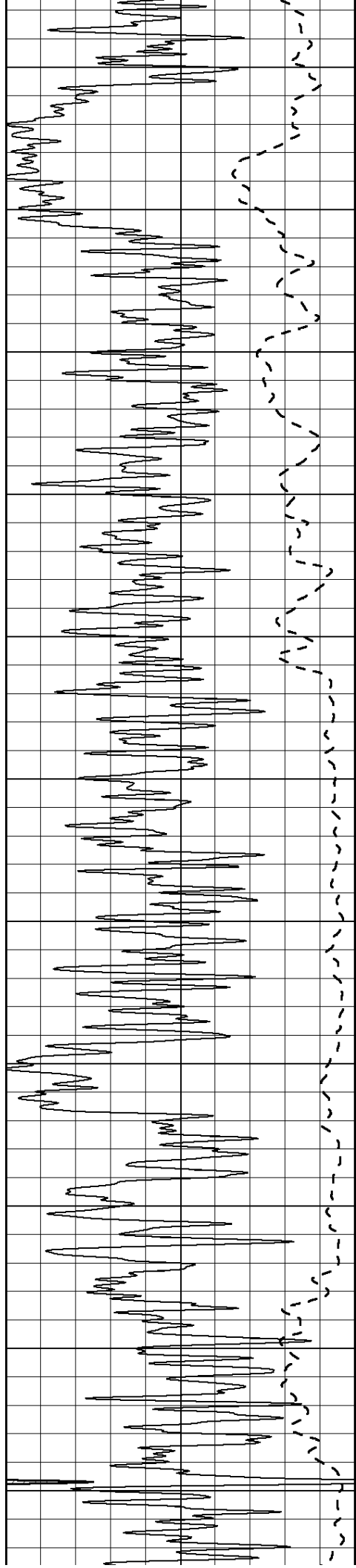
50 RILD X10 (Ohm-m) 500

50 RLL3 X10 (Ohm-m) 500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

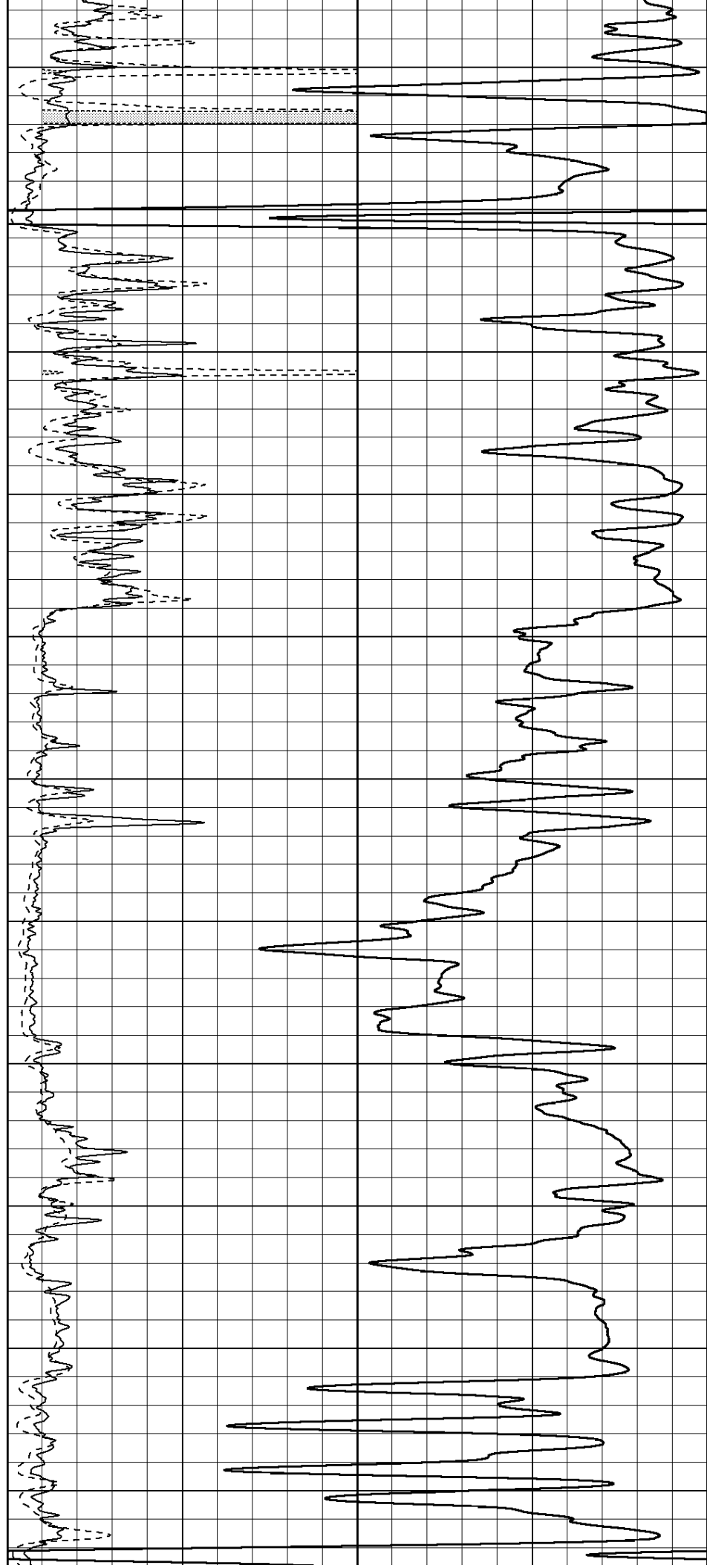
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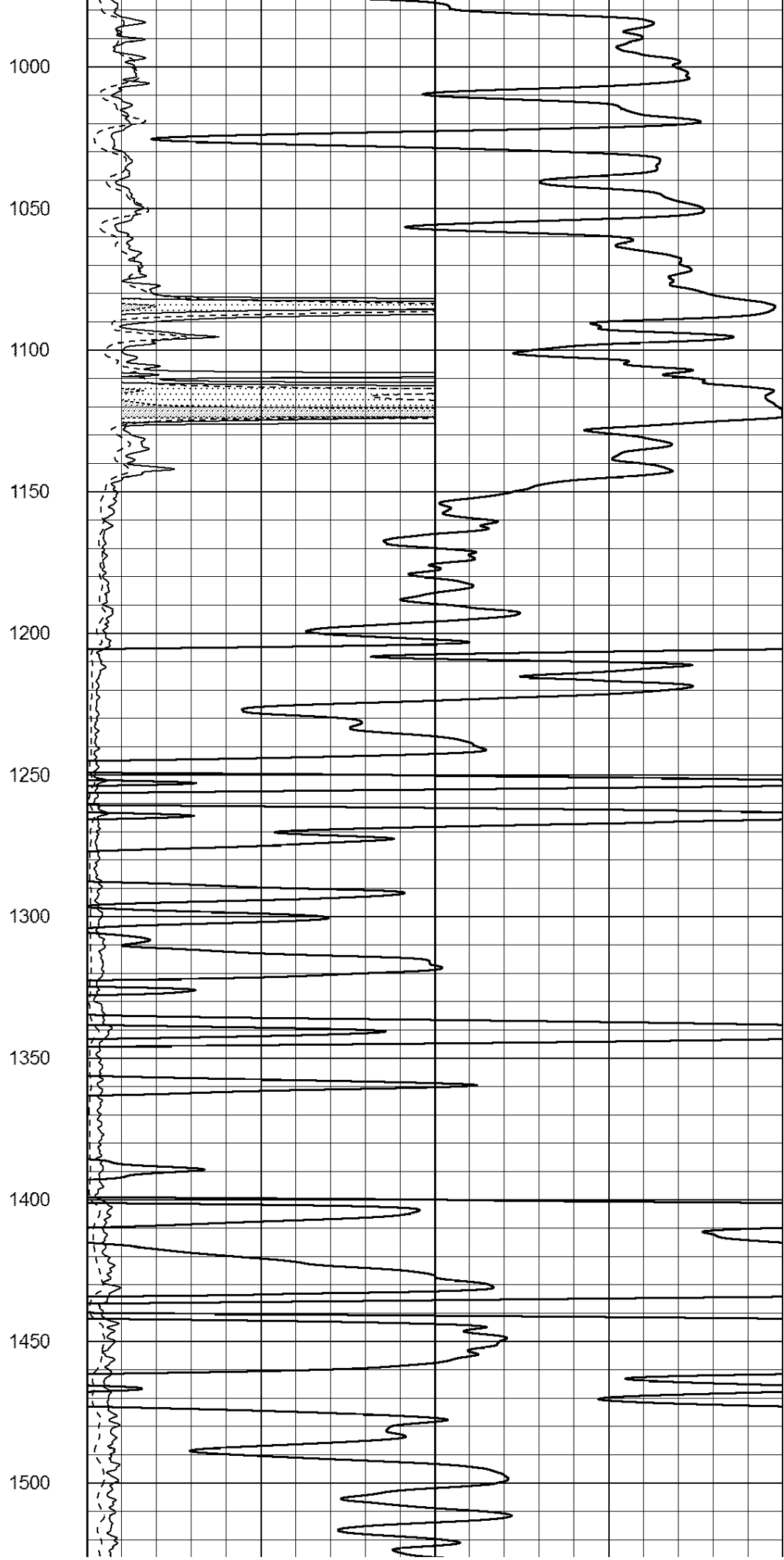
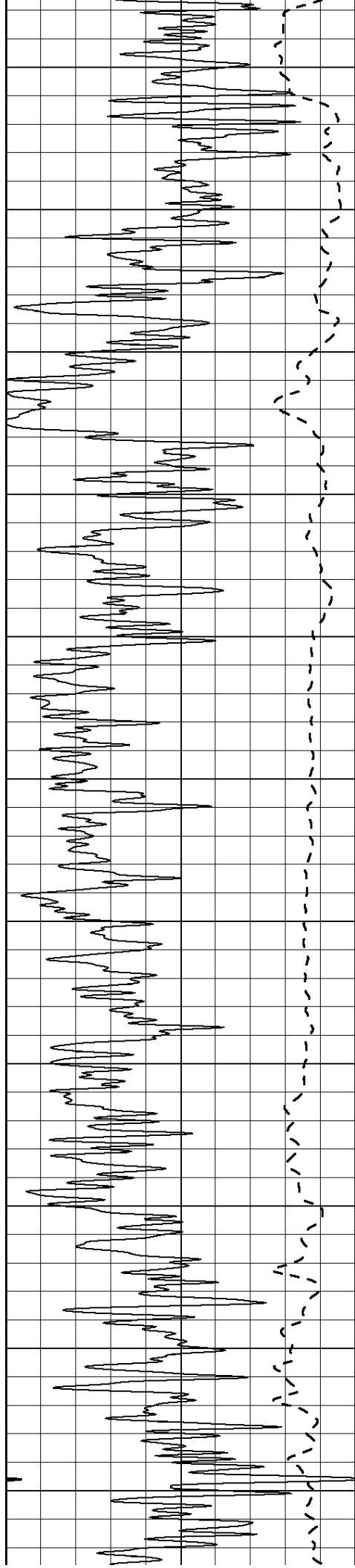
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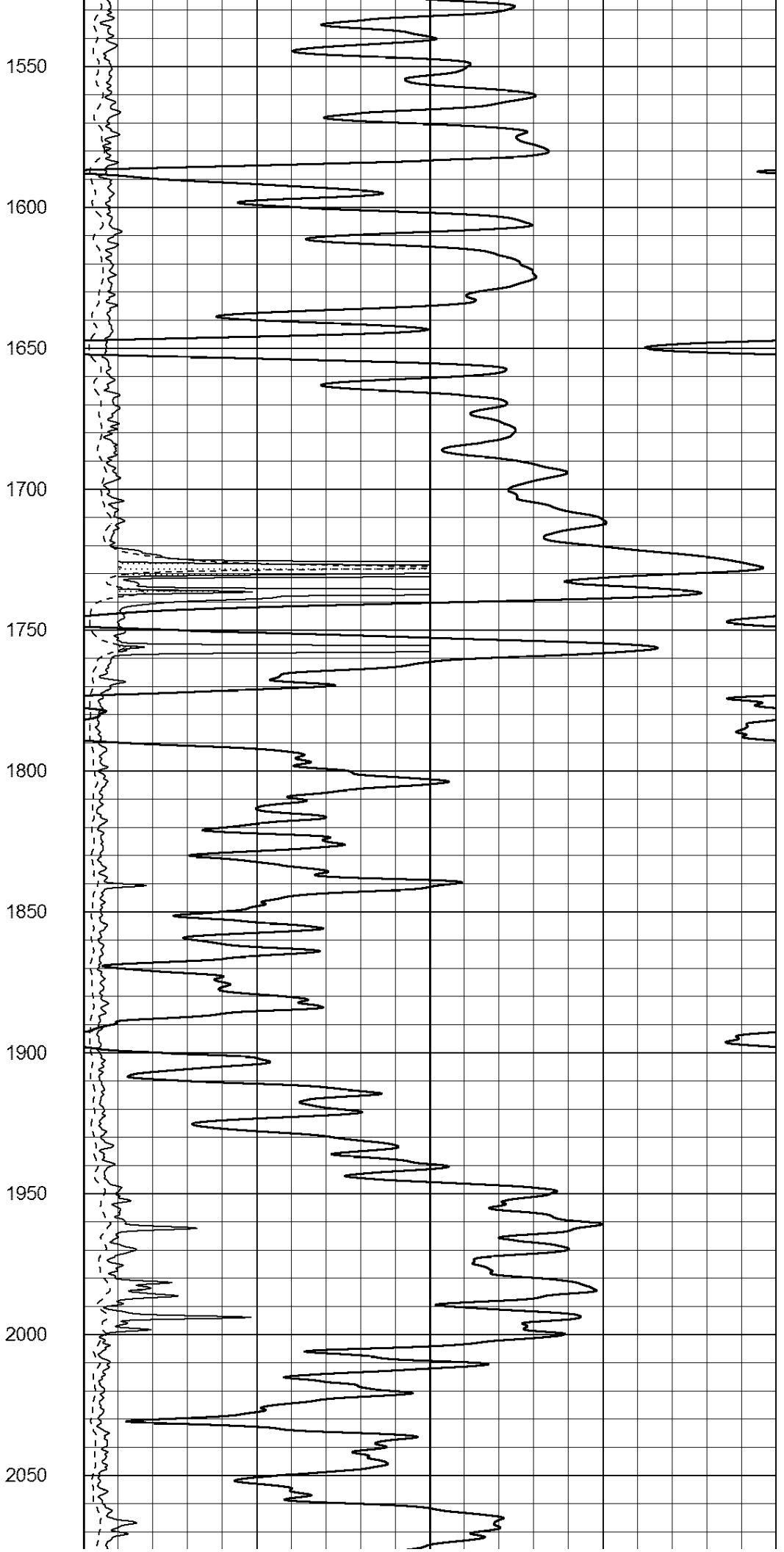
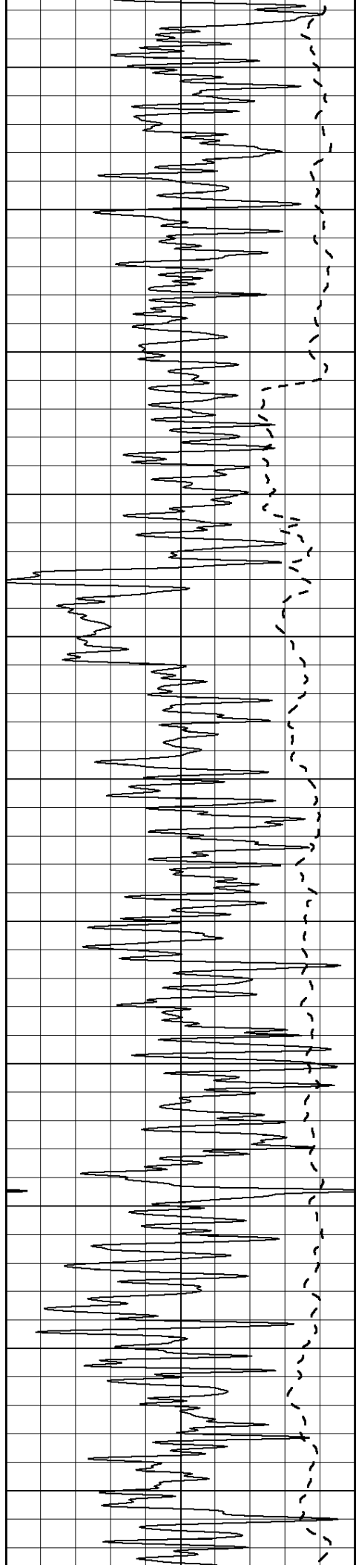
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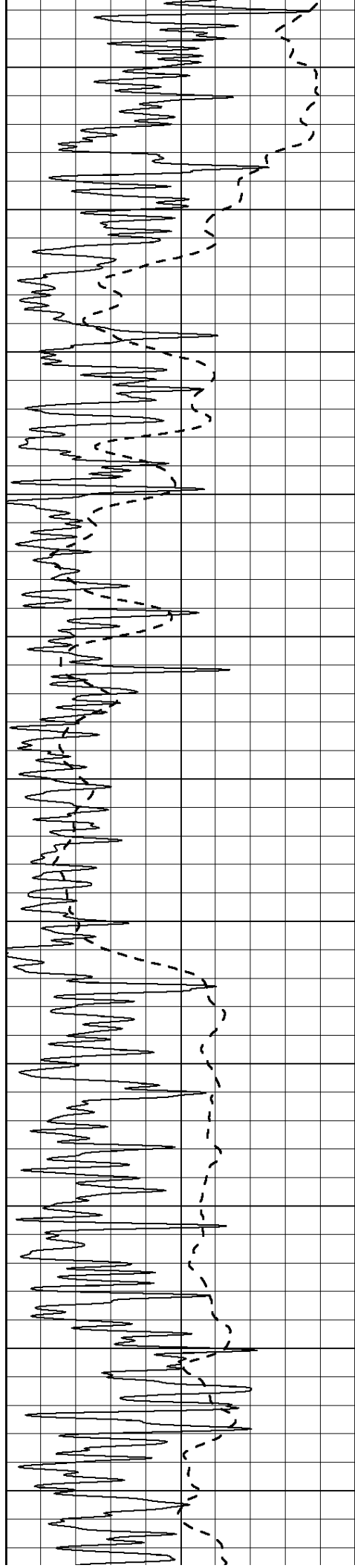
900

950









2100

2150

2200

2250

2300

2350

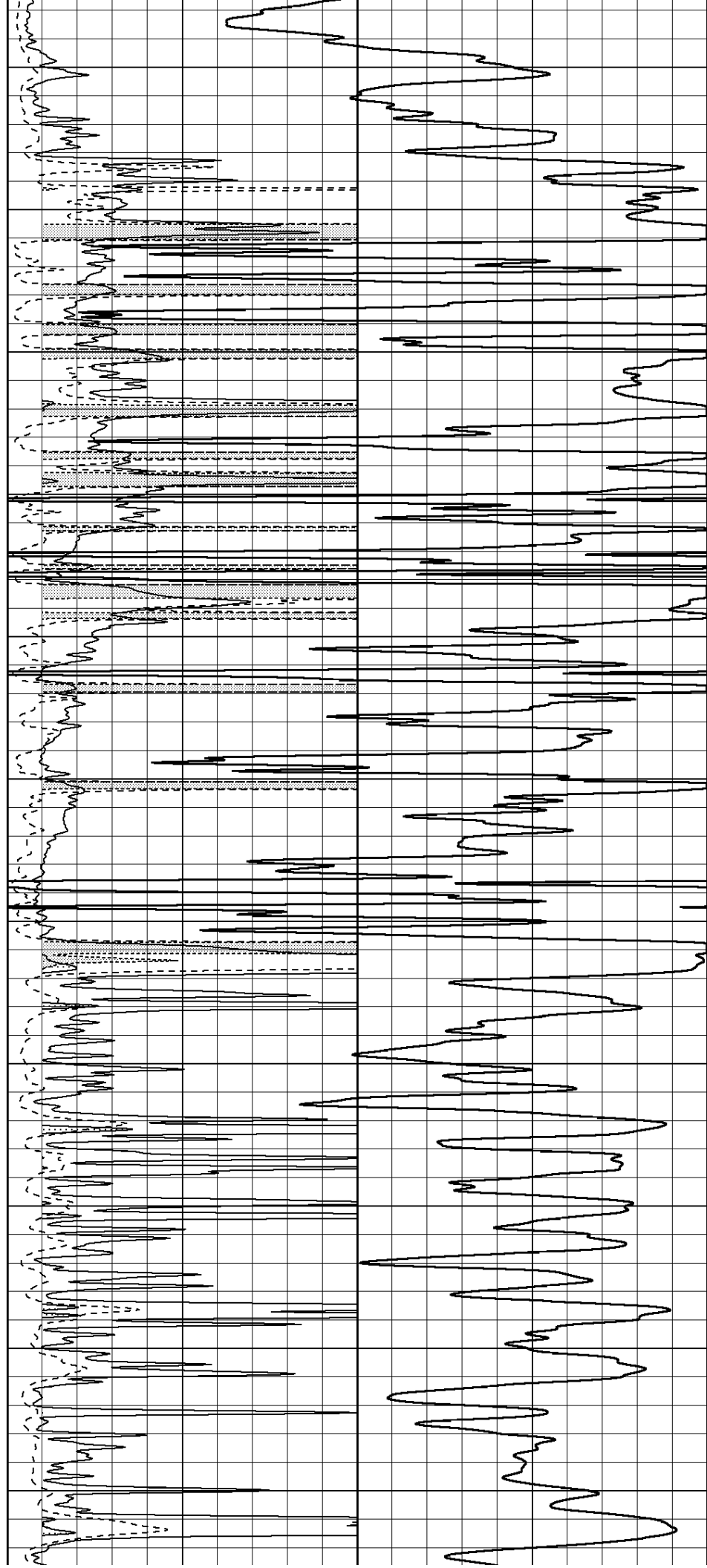
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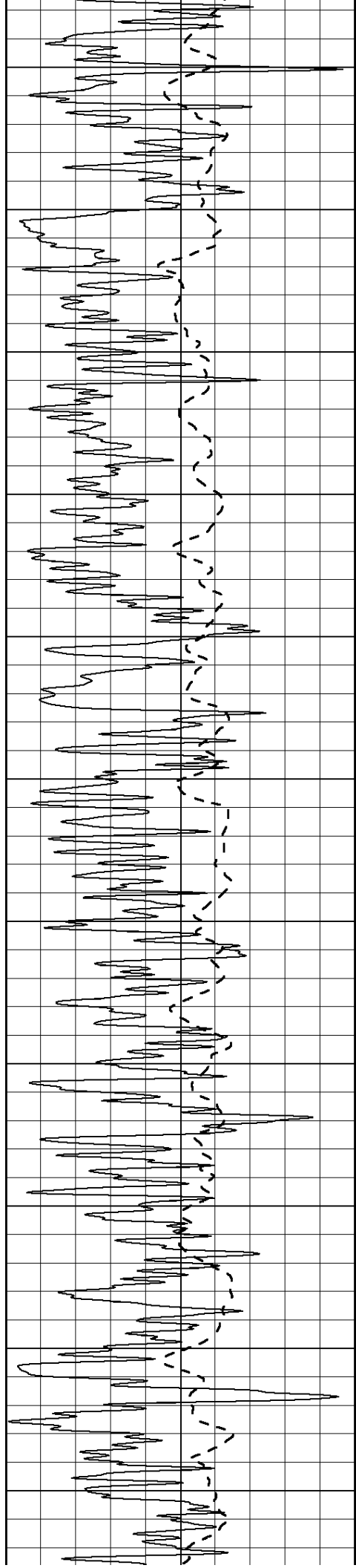
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2500

2550

2600





2650

2700

2750

2800

2850

2900

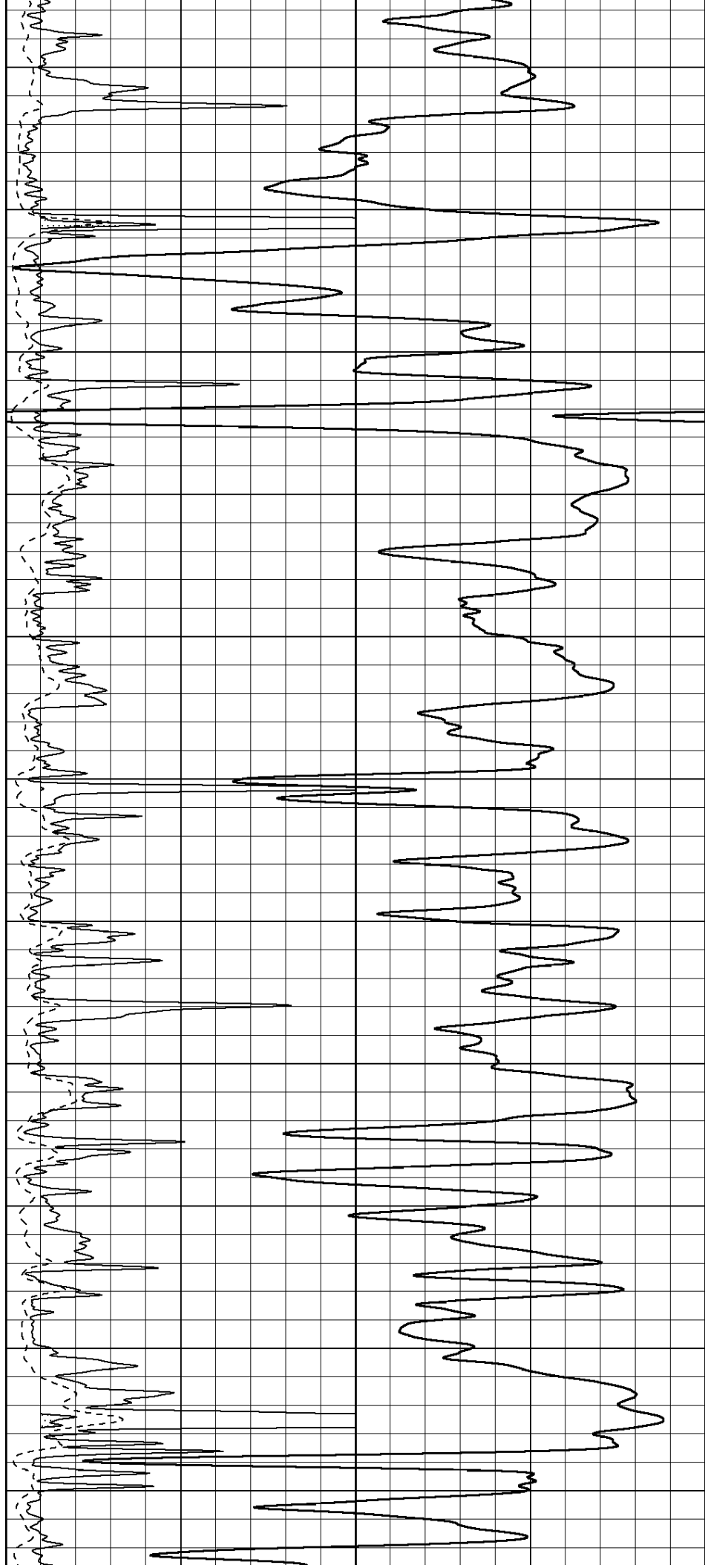
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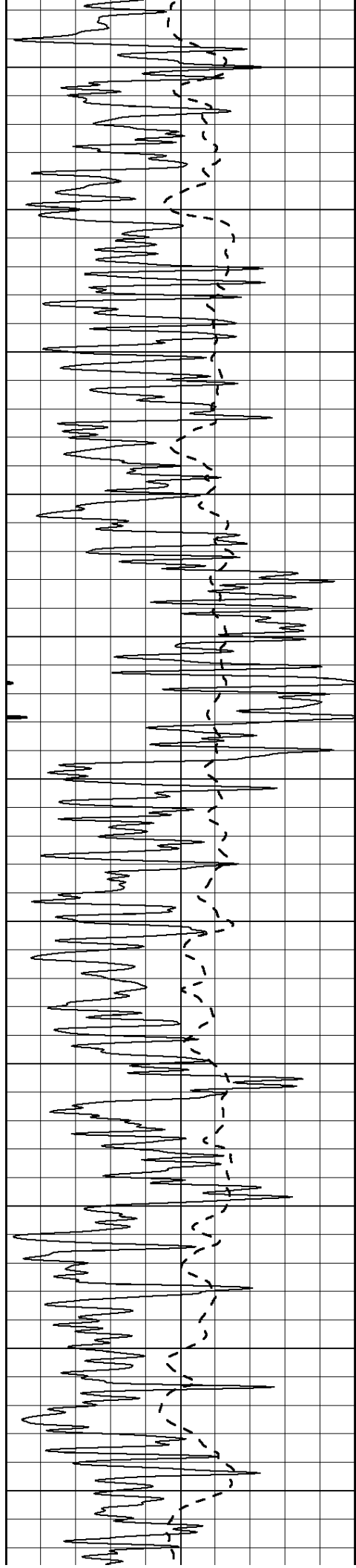
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

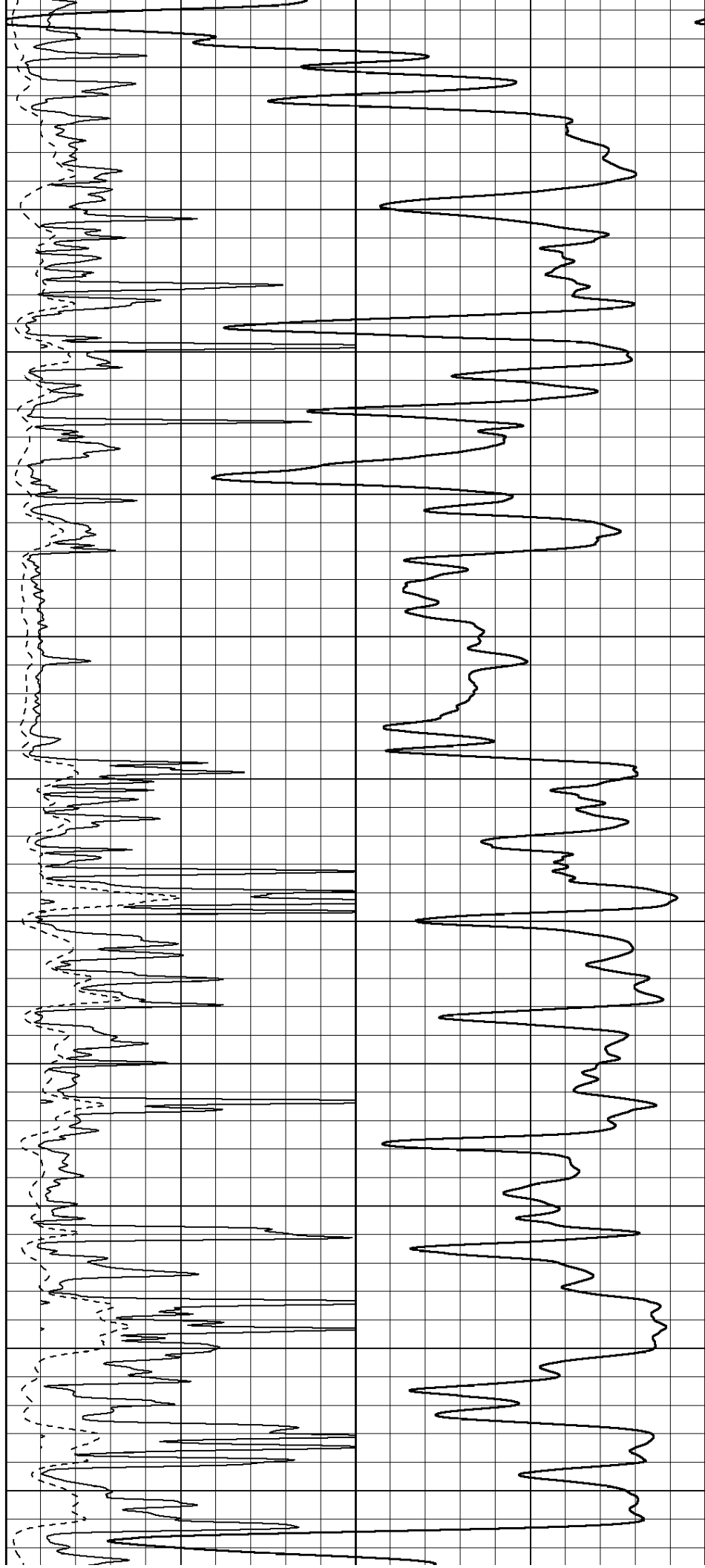
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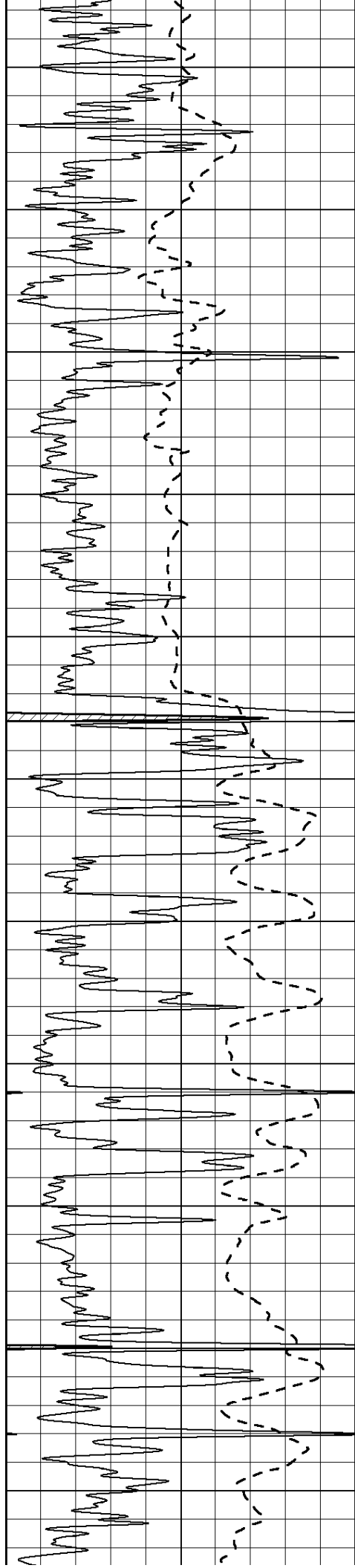
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3600

3650

3700





3750

3800

3850

3900

3950

4000

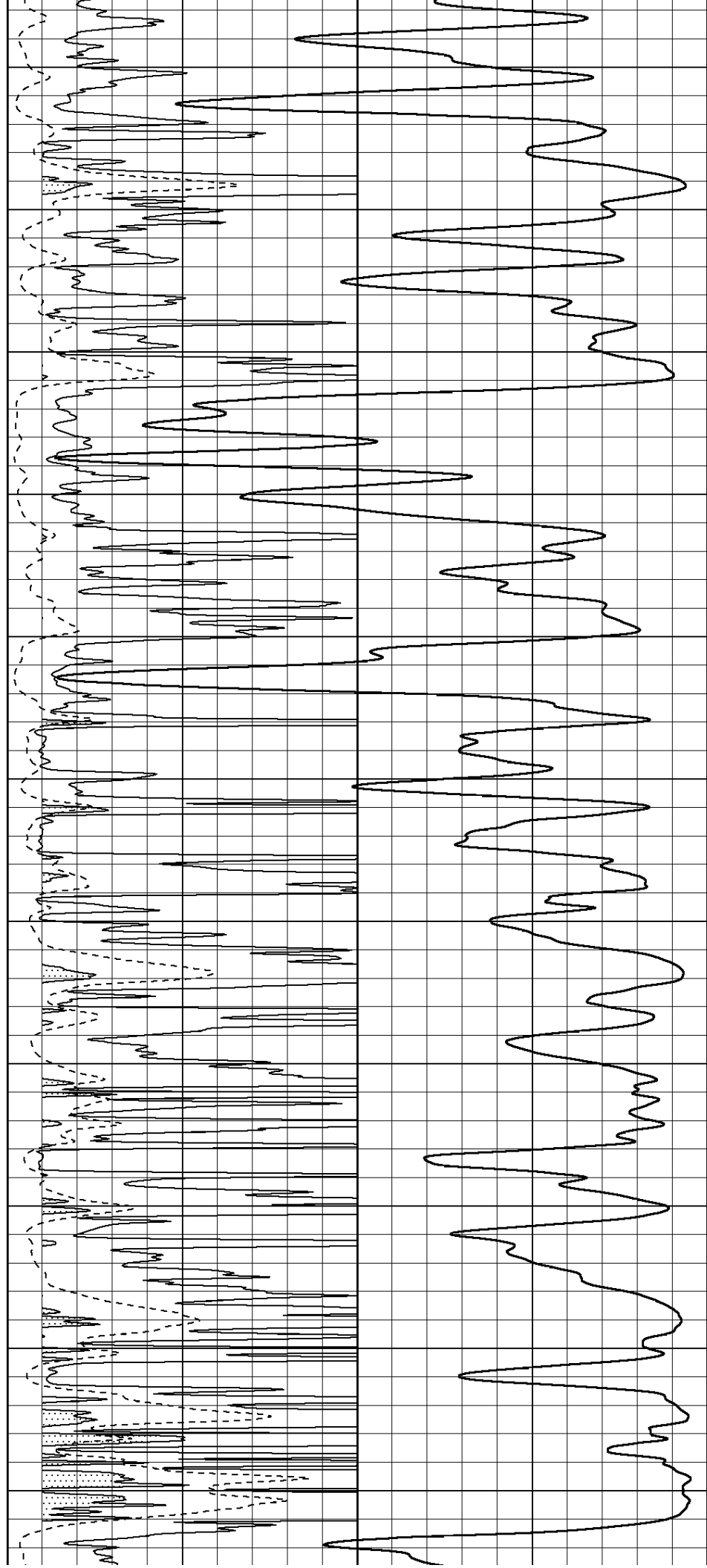
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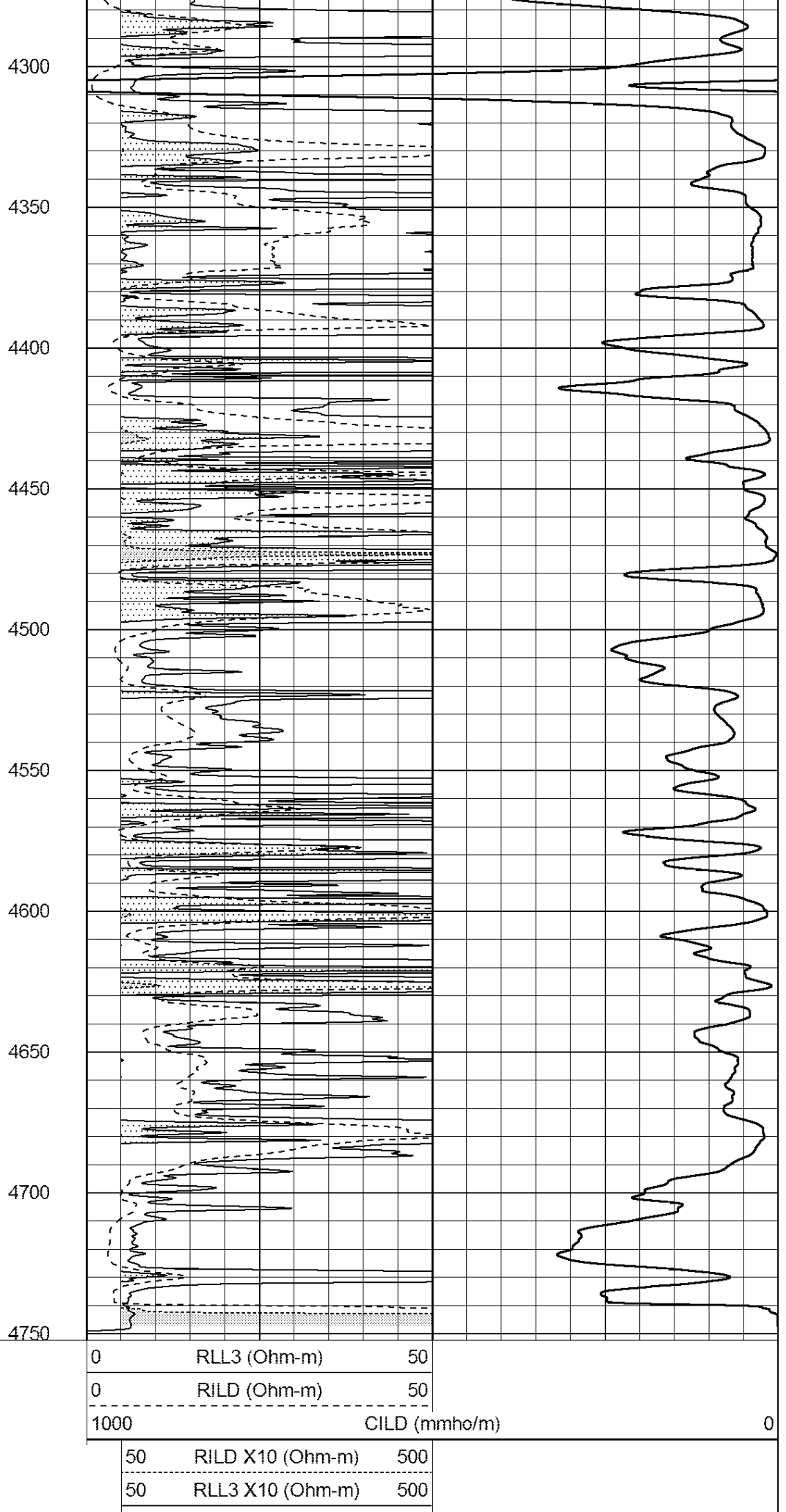
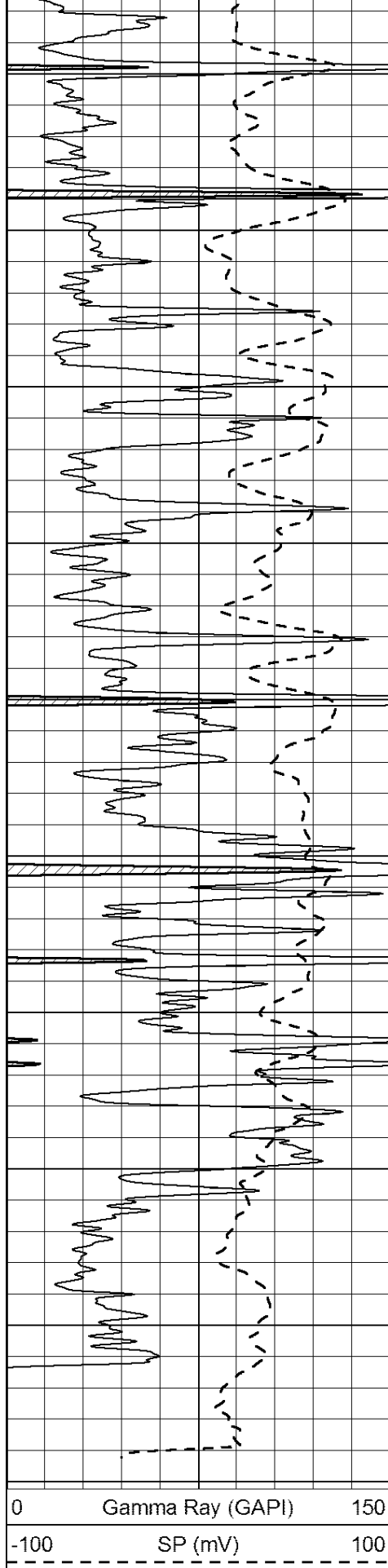
4100

4150

4200

4250







SUPERIOR

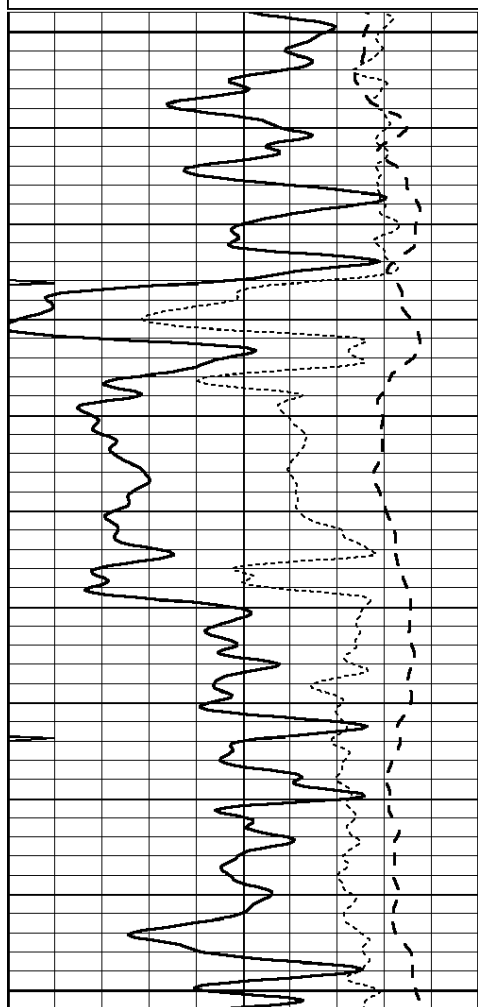
Hays,
Kansas

ANHYDRITE

Database File: 007077ddn.db
Dataset Pathname: pass3.11
Presentation Format: dil
Dataset Creation: Sat Jun 25 02:31:14 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

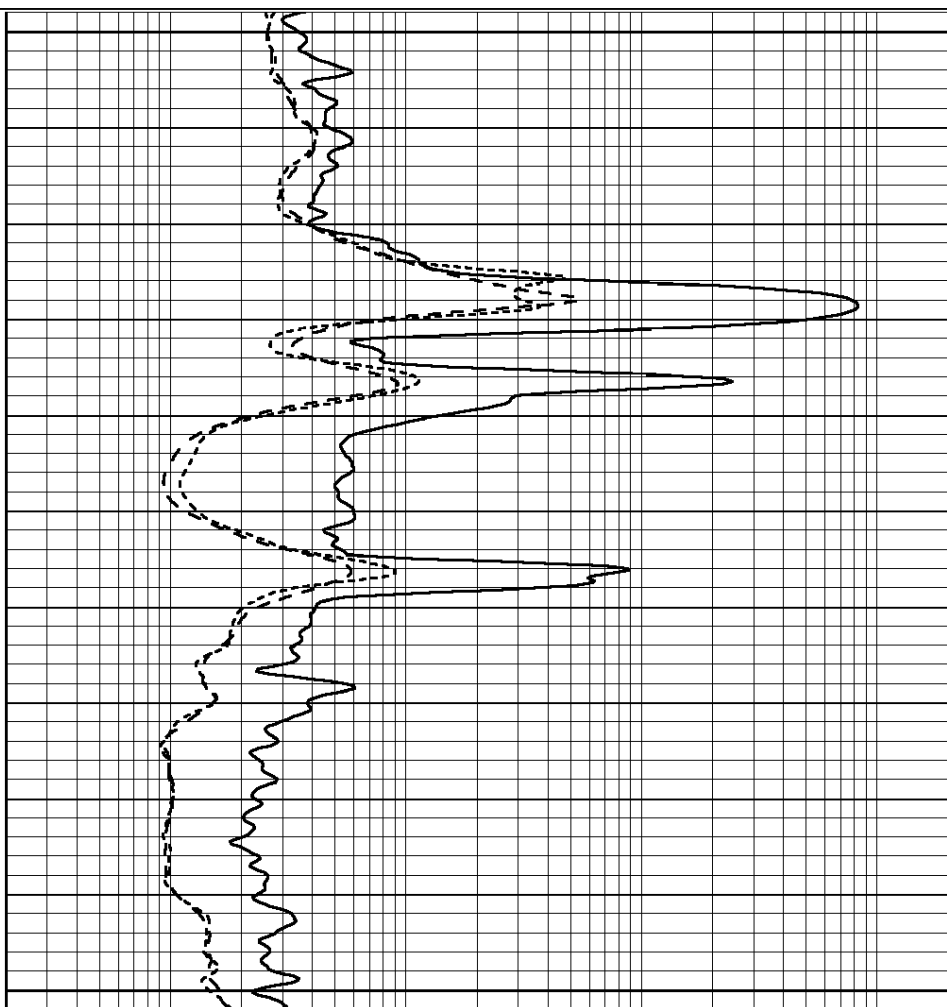
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



1700

1750

1800



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

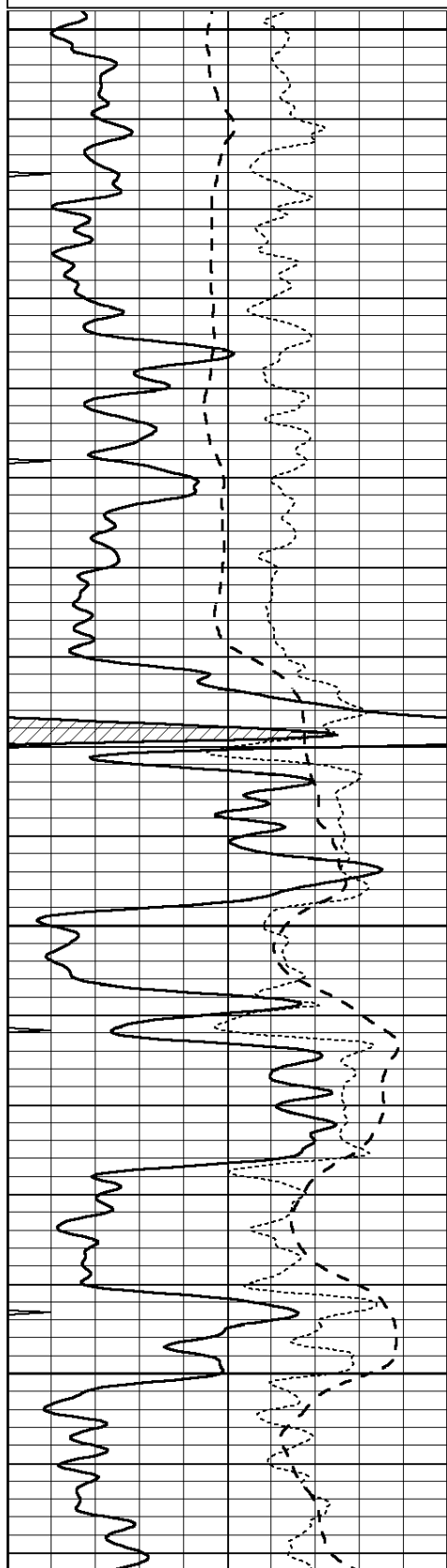
Hays,
Kansas

MAIN SECTION

Database File: 007077ddn.db
Dataset Pathname: pass3.10
Presentation Format: dil
Dataset Creation: Sat Jun 25 02:30:41 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

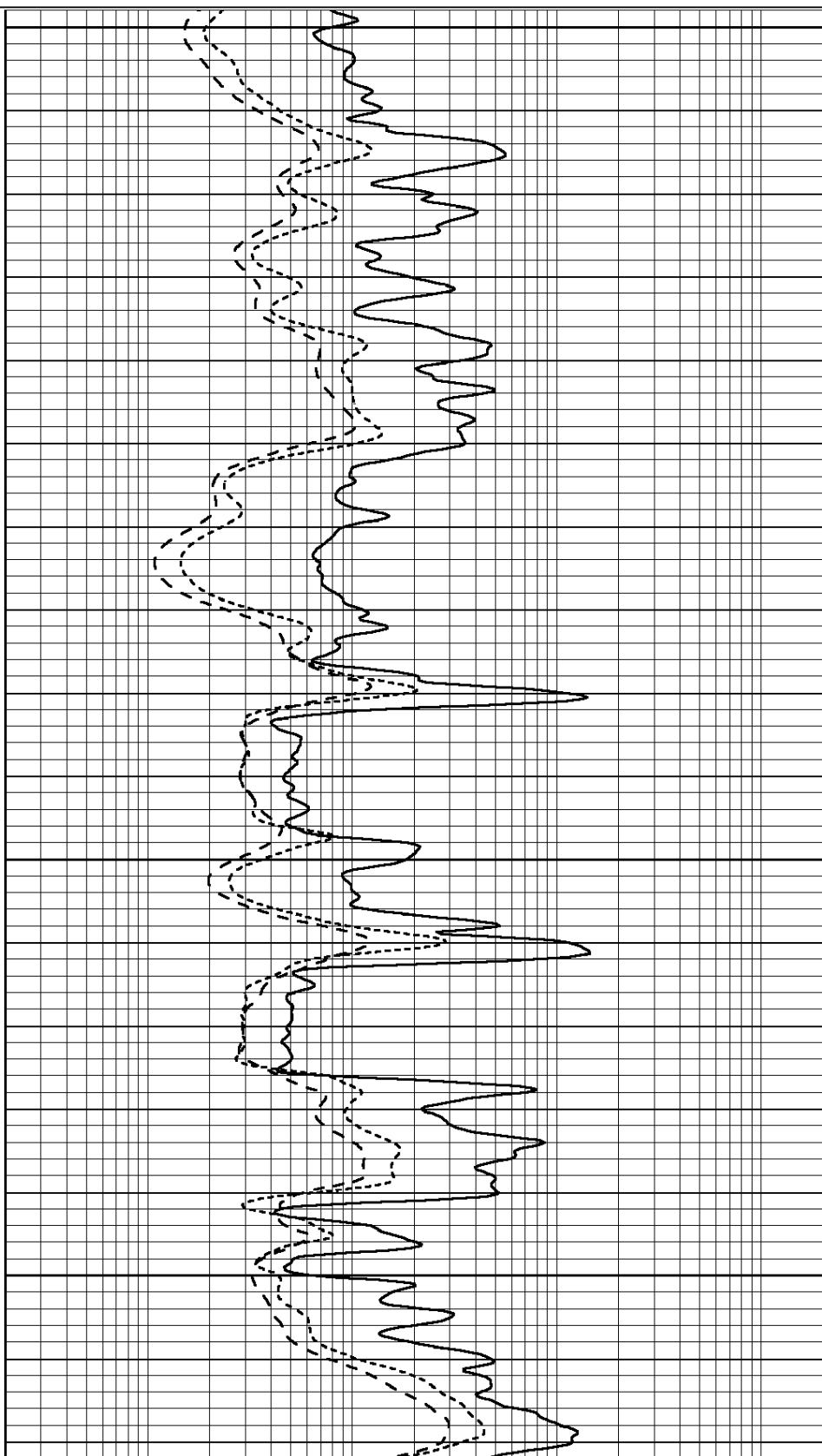


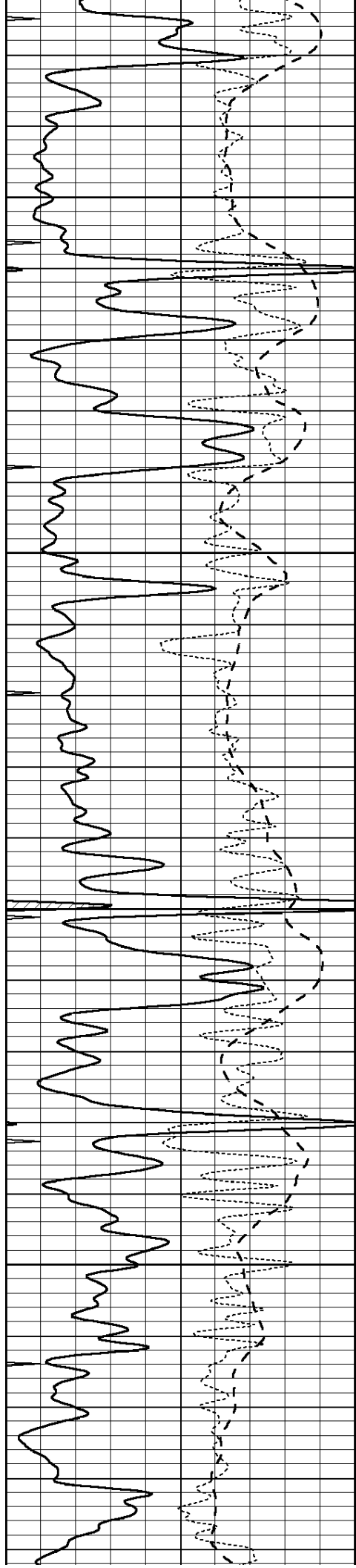
3900

3950

4000

4050



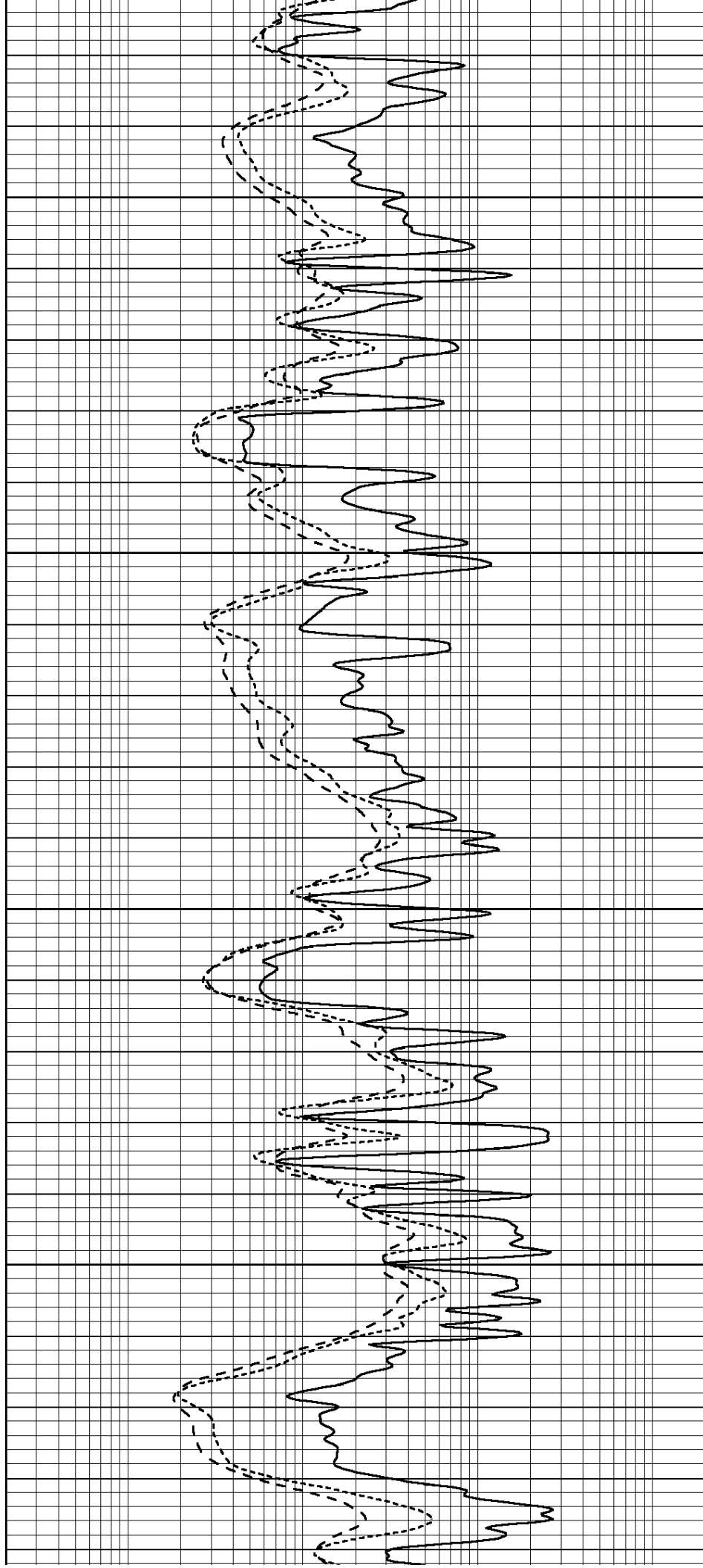


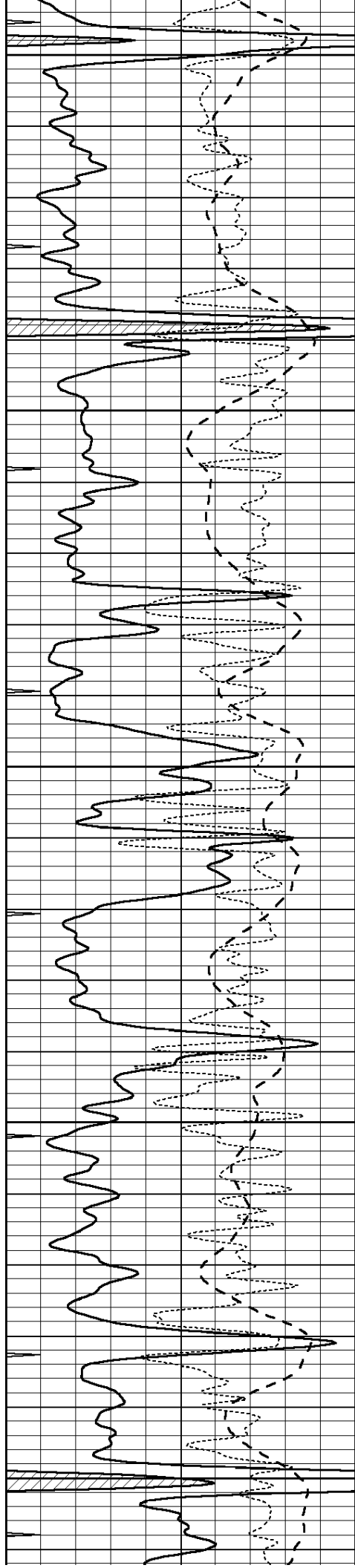
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4150

4200

4250





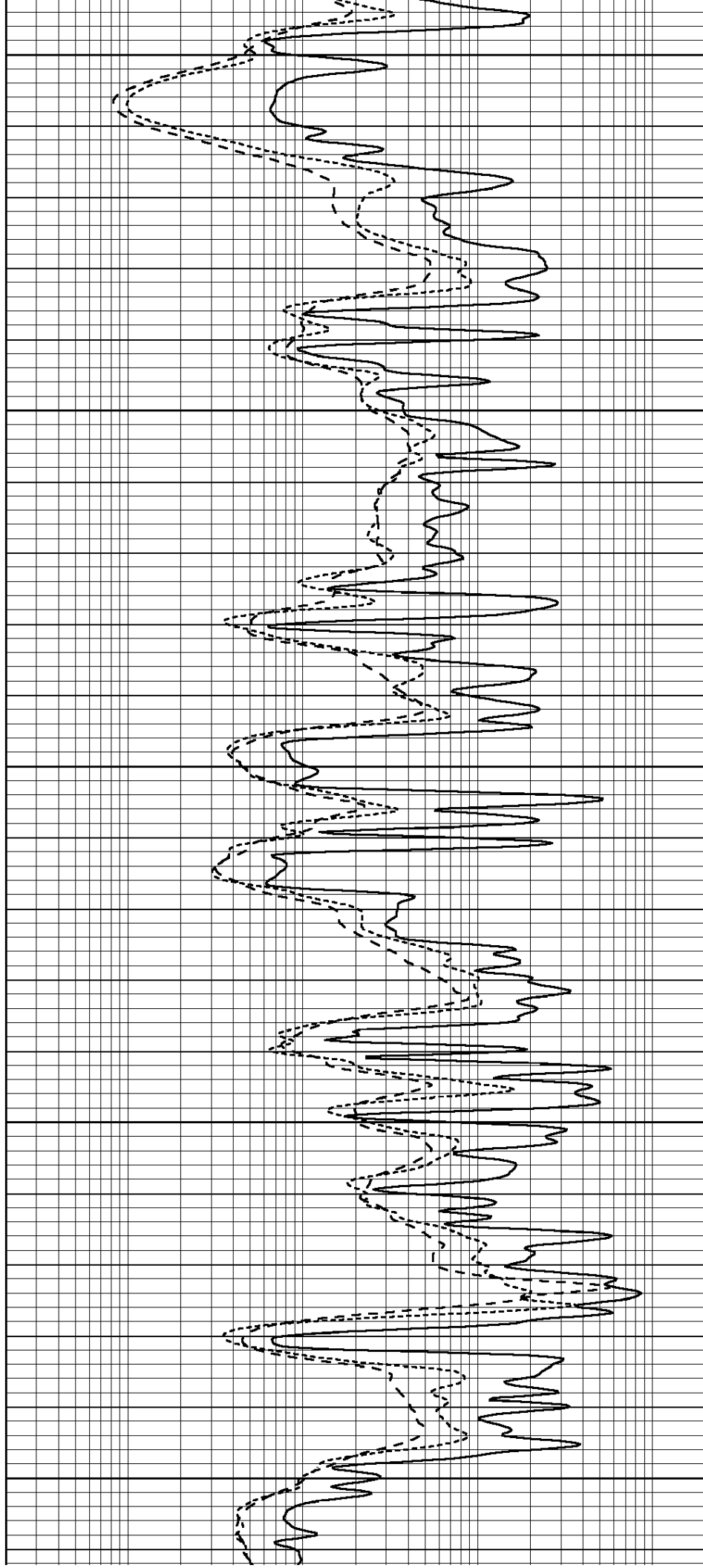
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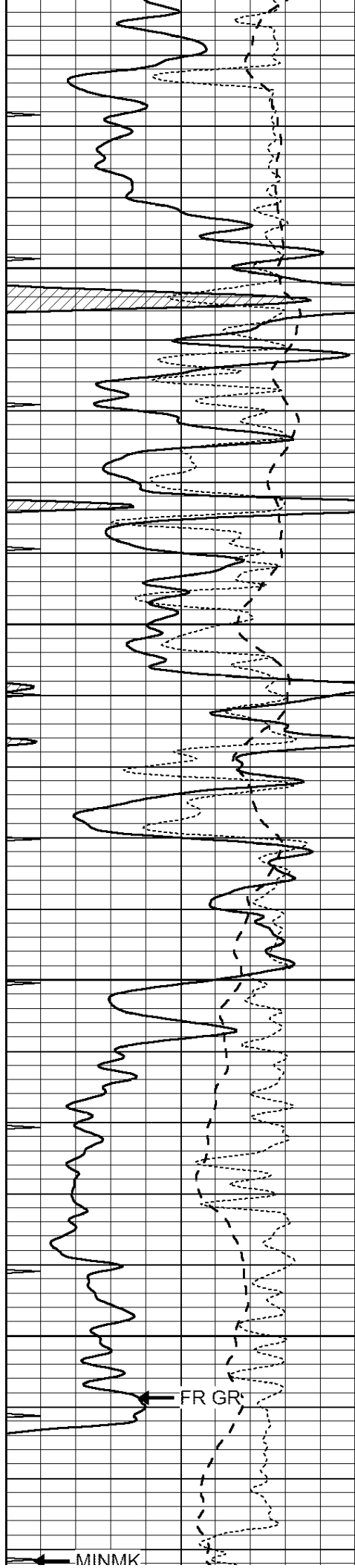
4350

4400

4450

4500





4550

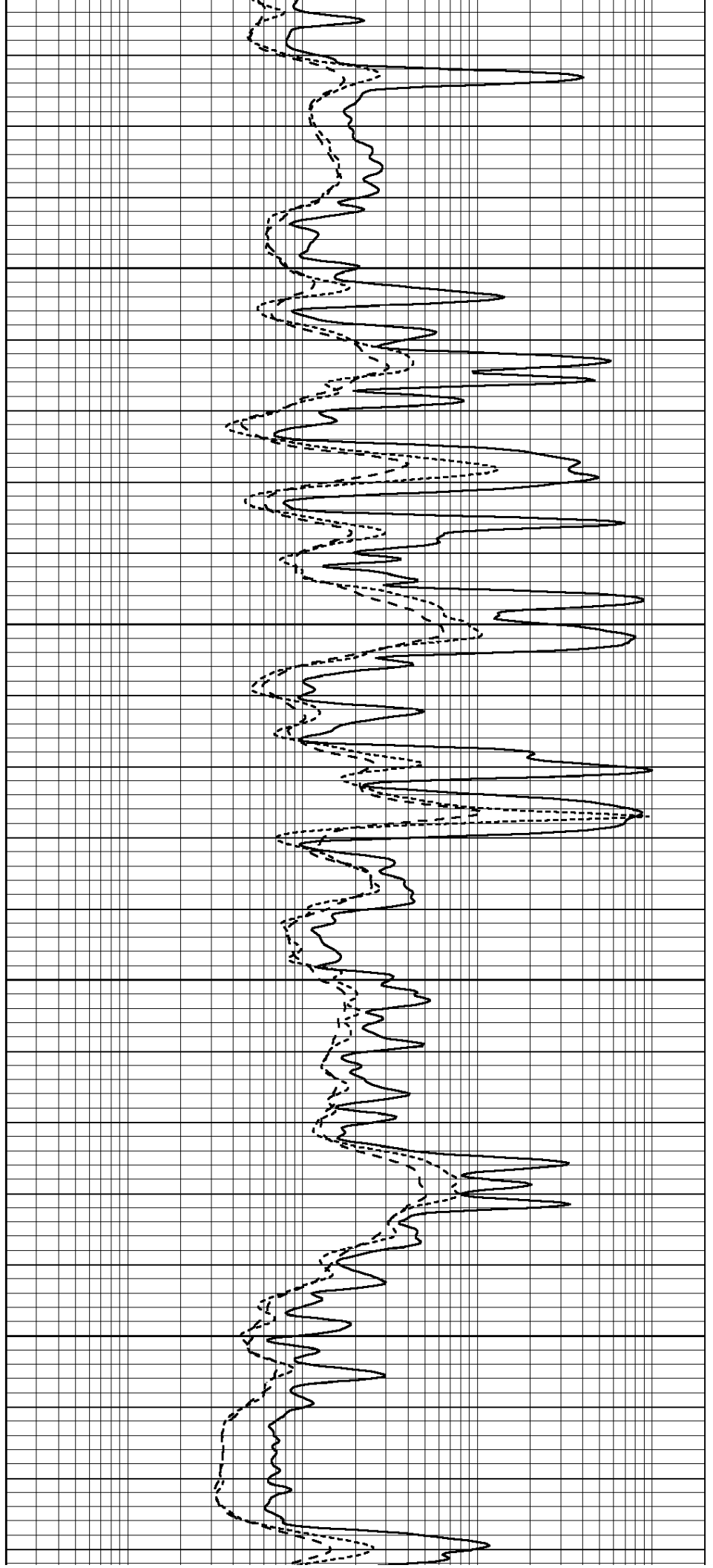
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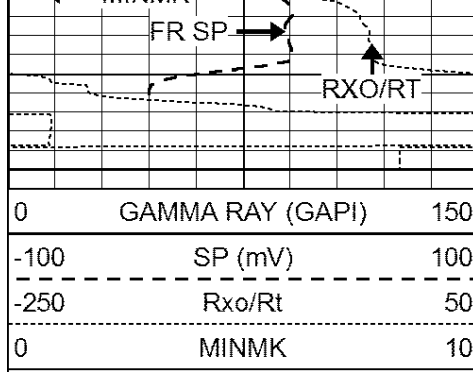
4650

4700

FR GR

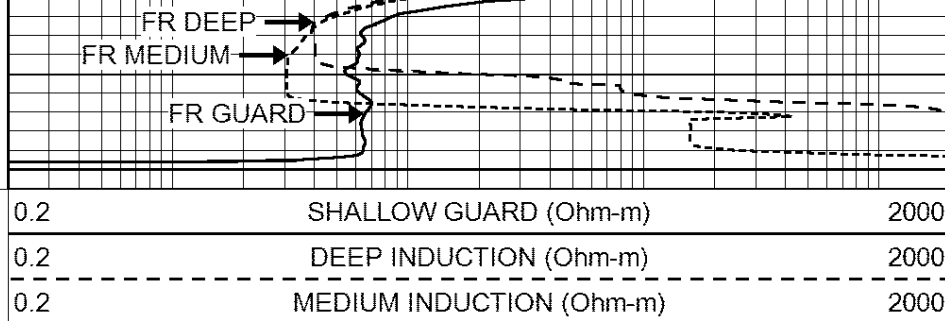
MINMK





LTD 4746

4750

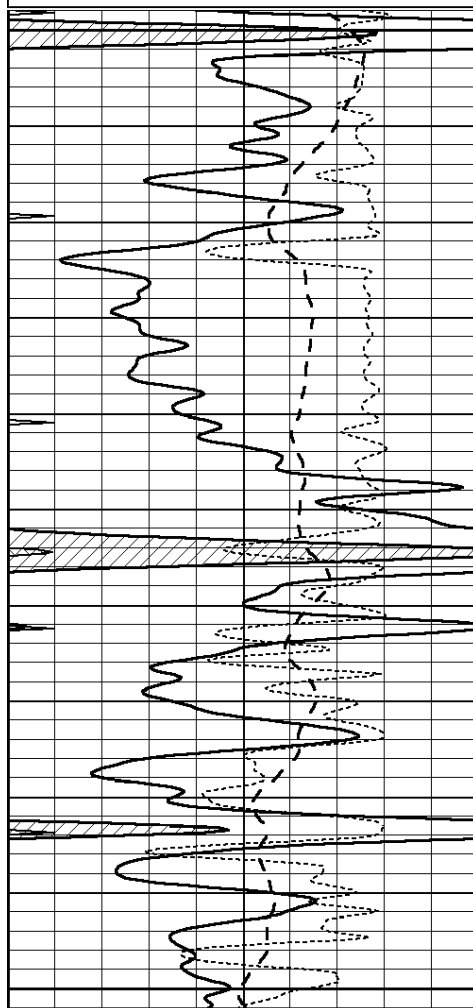
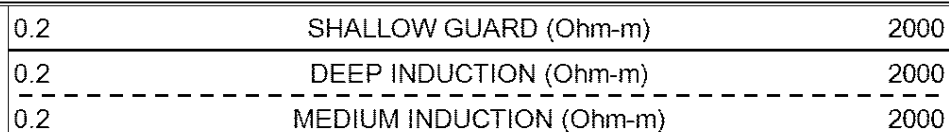
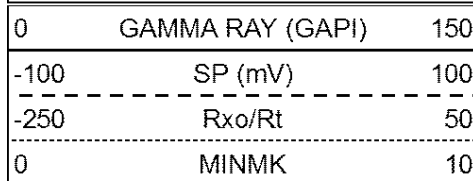


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REPEAT SECTION

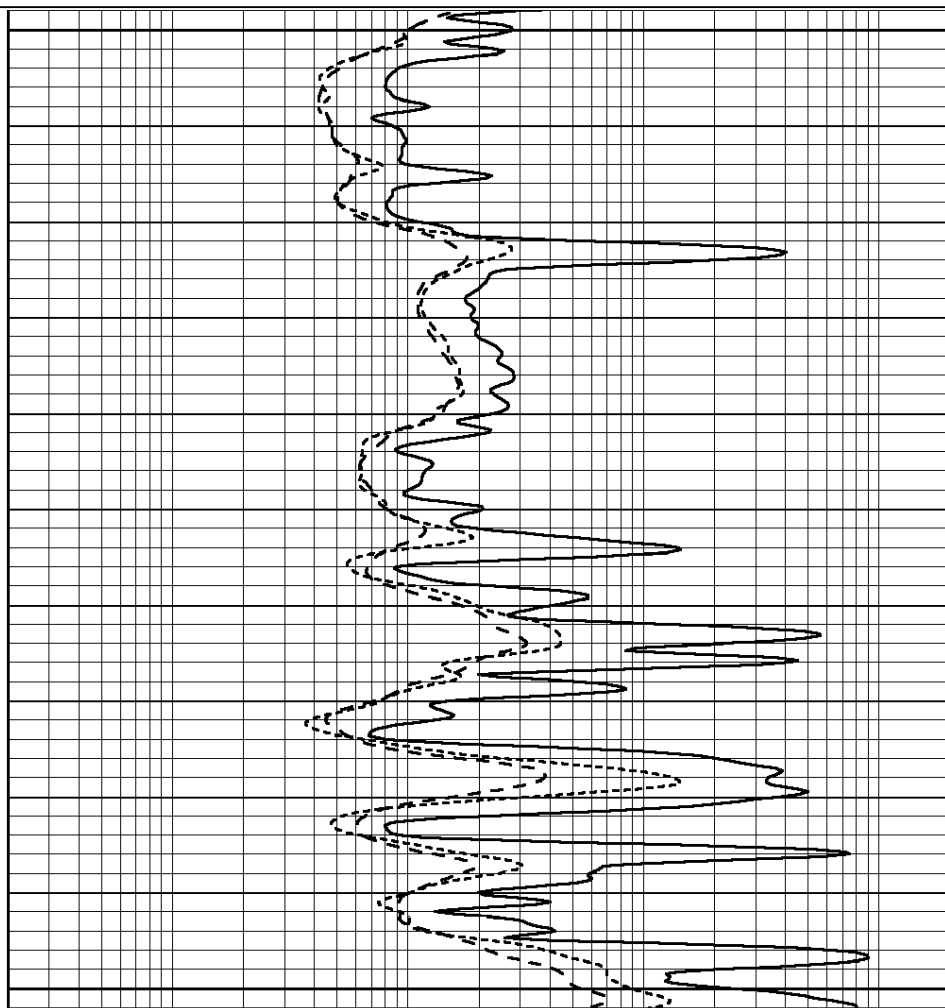
Database File: 007077ddn.db
 Dataset Pathname: pass2.8
 Presentation Format: dil
 Dataset Creation: Sat Jun 25 02:10:28 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

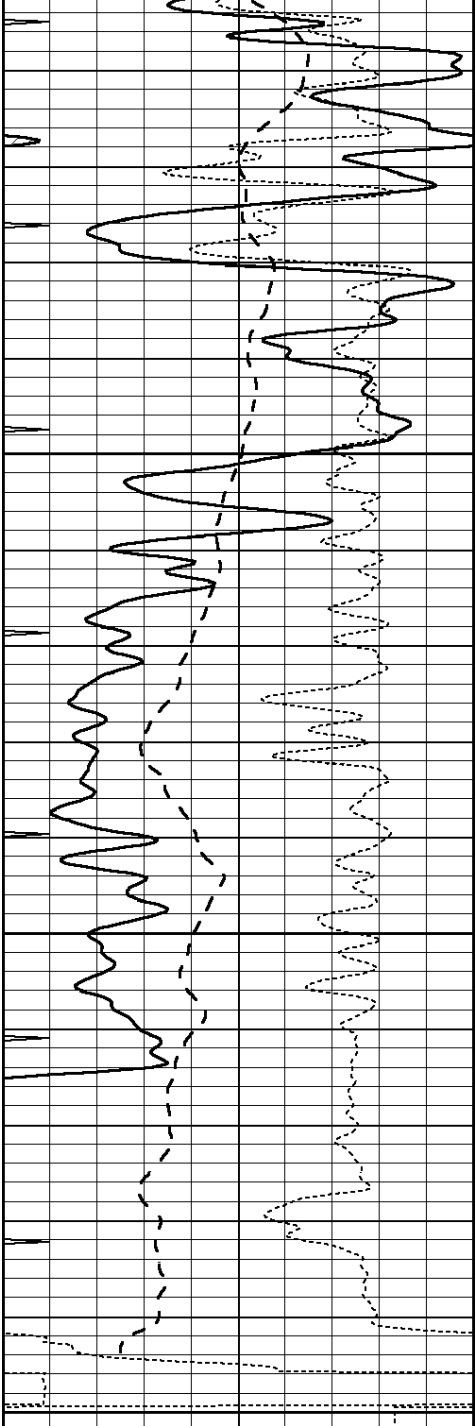


4500

4550

4600



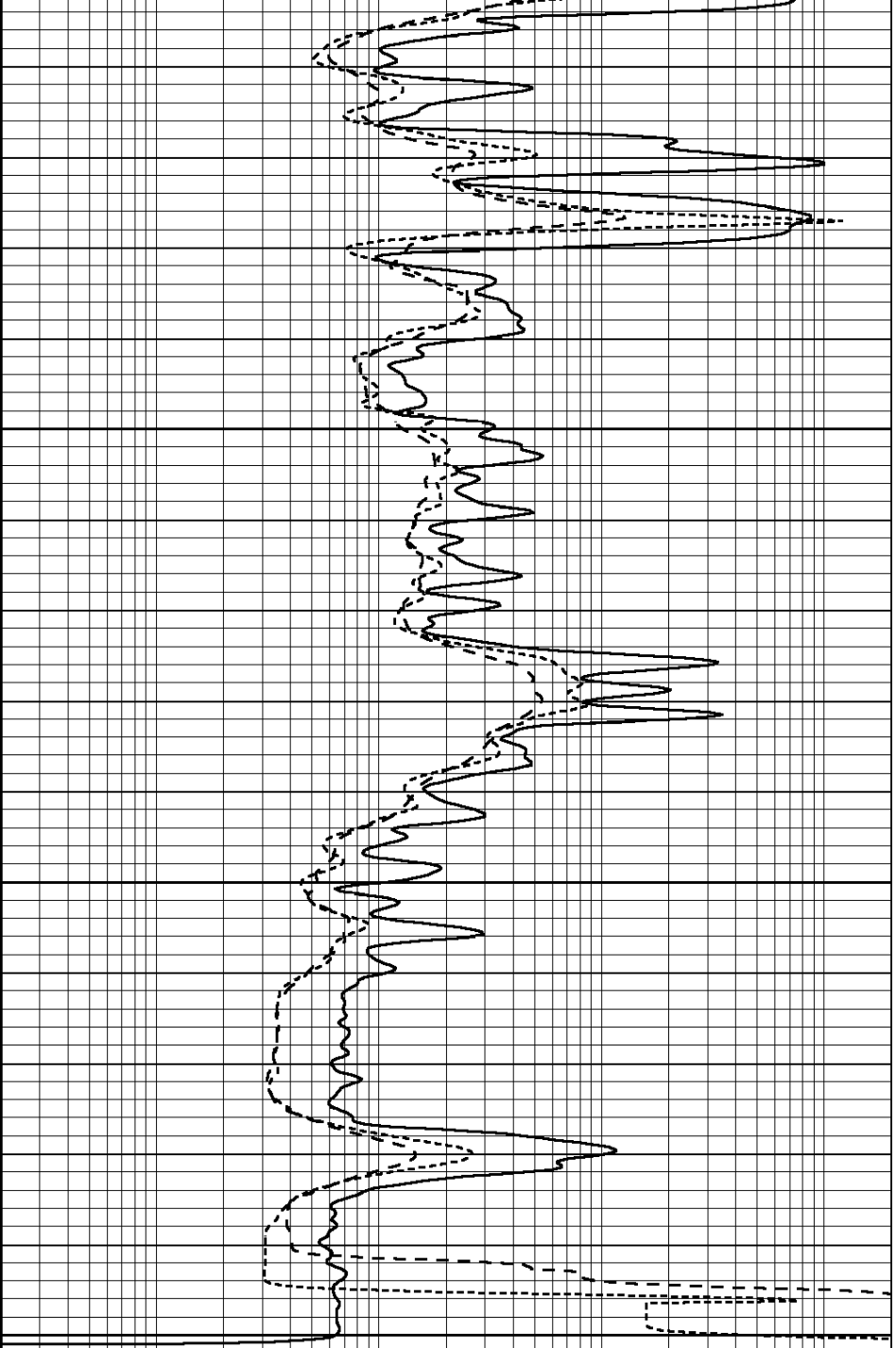


4650

4700

4750

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

Calibration Report

Database File: 007077ddn.db
Dataset Pathname: pass3.10
Dataset Creation: Sat Jun 25 02:30:41 2011

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
Performed: Tue Jun 21 22:02:01 2011

Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	9.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-4.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

Litho Density Calibration Report Serial: 006 Model: PRB Performed Sun Aug 15 09:48:41 2010								
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Litho Density Calibration								
	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				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

Caliper	Readings	Reference		
Low Ref	4.4	8.2		
High Ref	6.7	15.0		
	Gain: 3.0		Offset: -5.1	

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:	GR4							
Tool Model:	OPEN							
Performed:	Sat Jun 25 00:59:20 2011							
Calibrator Value:	200.0			GAPI				
Background Reading:	0.0			cps				
Calibrator Reading:	189.0			cps				
Sensitivity:	3.7000			GAPI/cps				