



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company	RAYMOND OIL COMPANY, INC.		
Well	#1 HABIGER LIVING TRUST		
Field	WILDCAT		
County	LANE		
State	KANSAS		
Location:	API # : 15-101-22219-0000		
470' FNL & 1136' FEL			
SEC 28 TWP 18S RGE 27W			
Permanent Datum	GROUND LEVEL	Elevation	2654
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Other Services			CDL/CNL MEL/SON
Elevation			
K.B. 2659			D.F. 2657 G.L. 2654
D.F. 2657			
G.L. 2654			

Date	3-19-10		
Run Number	CNE		
Depth Driller	4660		
Depth Logger	4661		
Bottom Logged Interval	4659		
Top Log Interval	0		
Casing Driller	8 5/8" @ 248		
Casing Logger	248		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.5/63		
pH / Fluid Loss	8.5/12.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.85 @ 85F		
Rmf @ Meas. Temp	.637 @ 85F		
Rmc @ Meas. Temp	1.02 @ 85F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.592 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	680		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
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 SERVICES HAYS, KANSAS (785)628-6395
DIRECTIONS
DIGHTON KS., - 8 E. ON HWY 96 TO TURKEY RED RD. - 3/4 S. - W. INTO

Database File: 005103ddn.db
Dataset Pathname: pass3.2
Presentation Format: _dil2
Dataset Creation: Fri Mar 19 04:41:10 2010 by Calc Open-Cased 090629

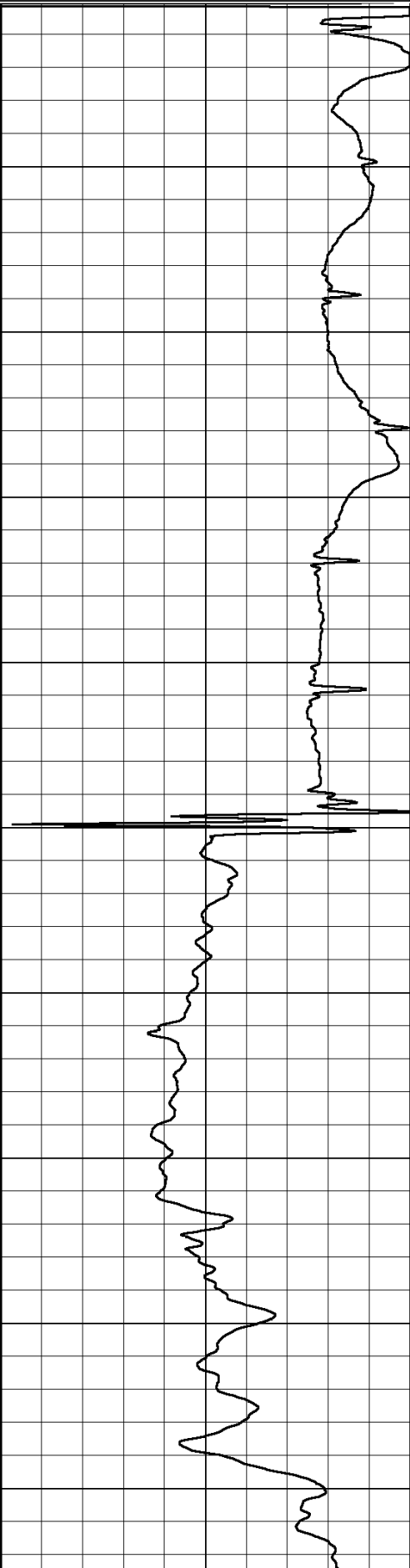
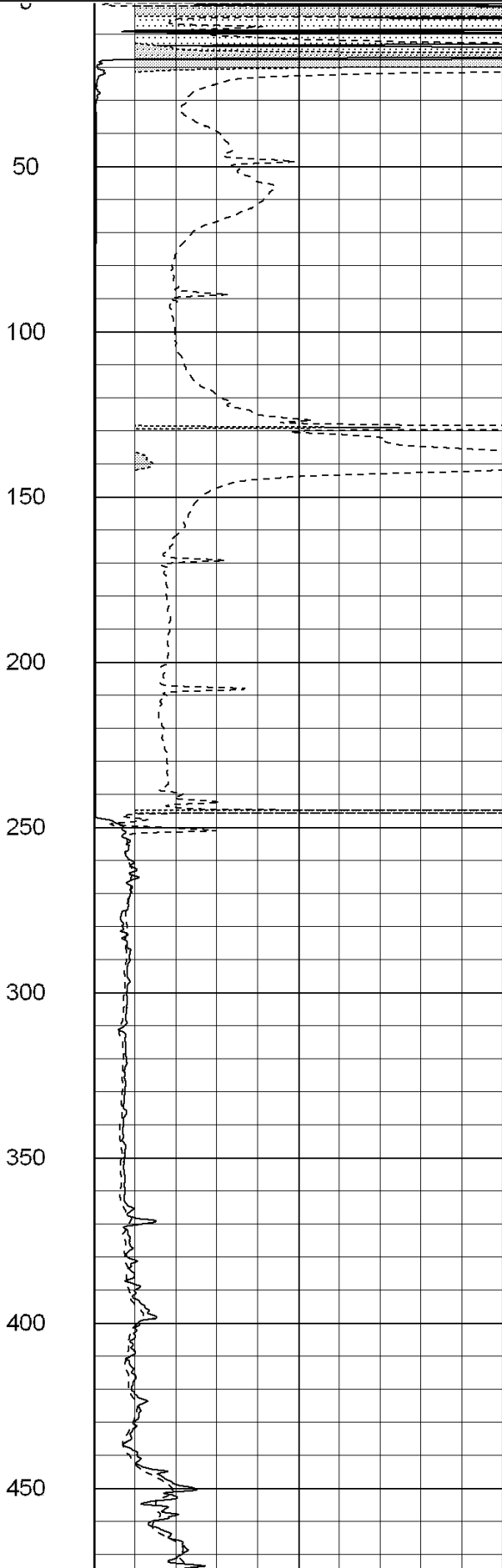
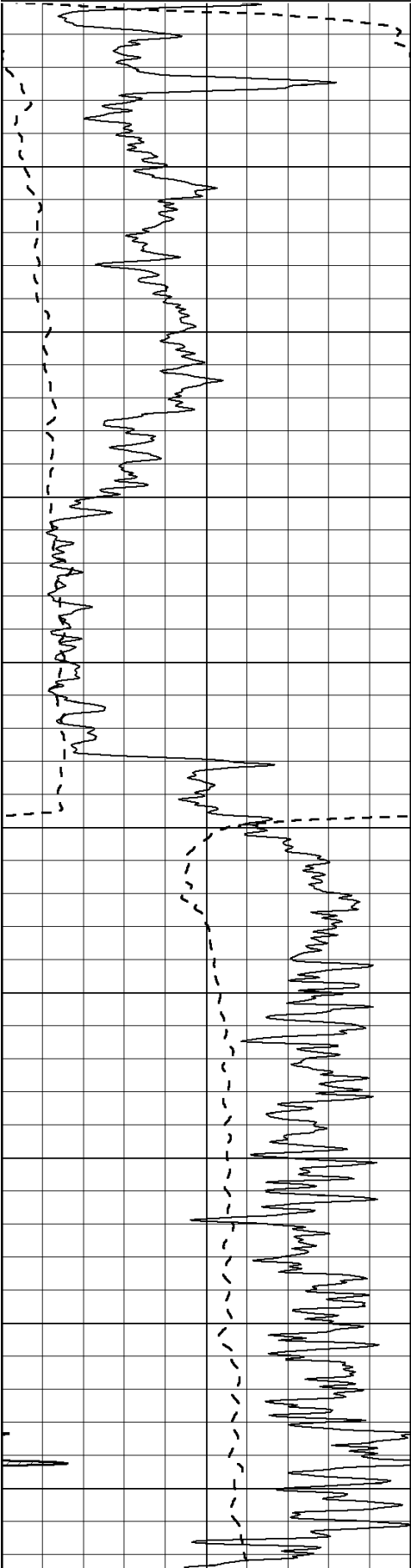
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

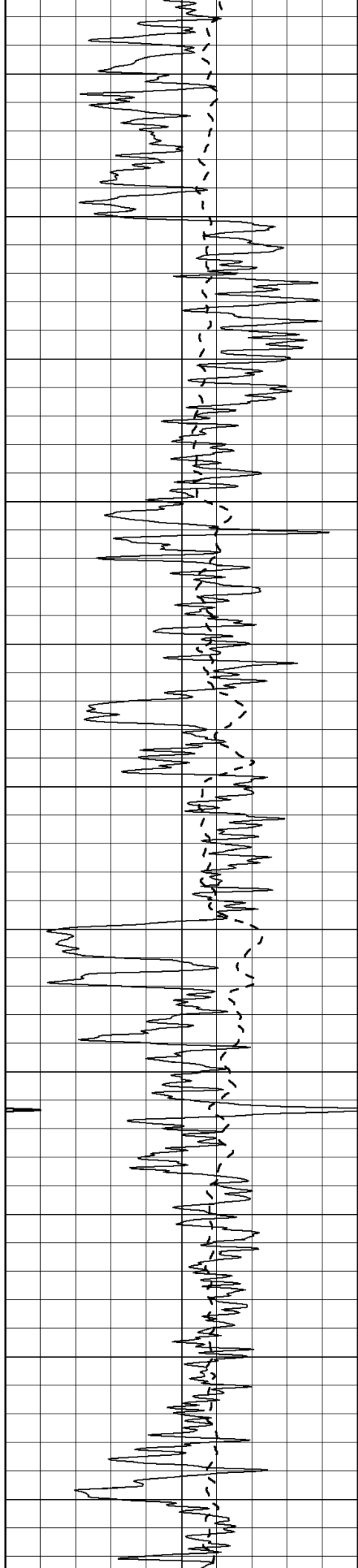
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

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

550

600

650

700

750

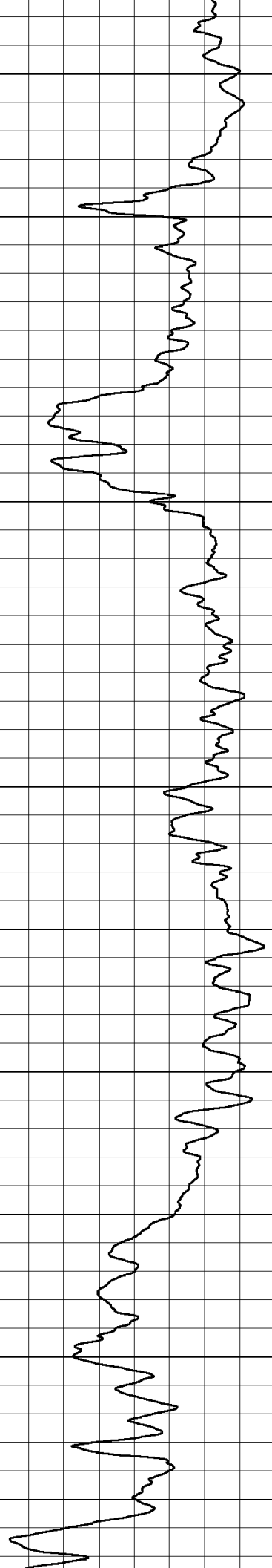
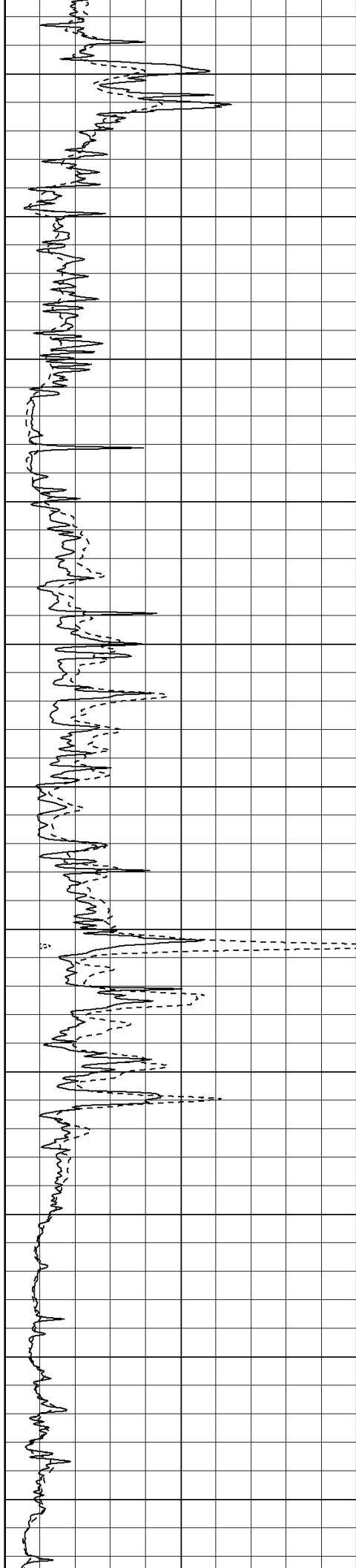
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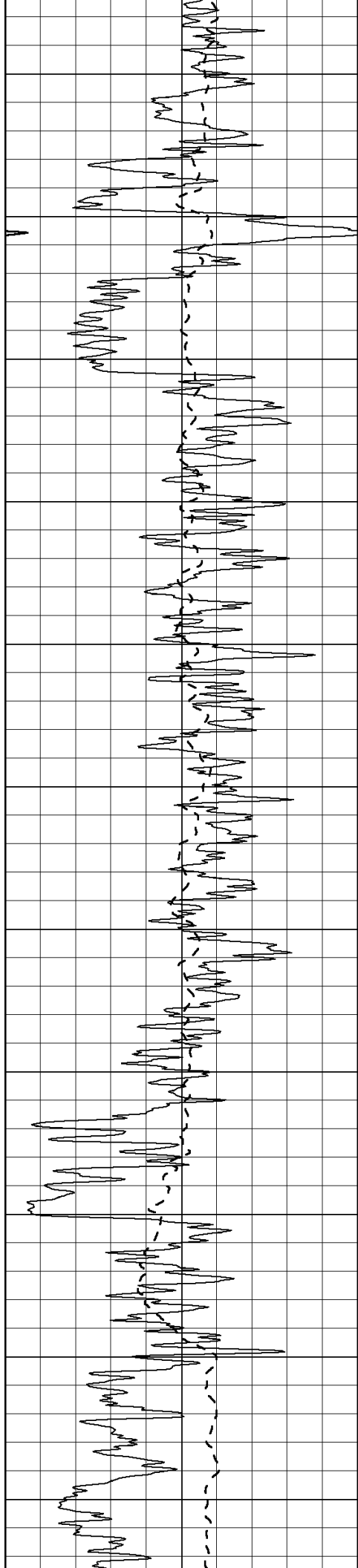
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900

950

1000





1050

1100

1150

1200

1250

1300

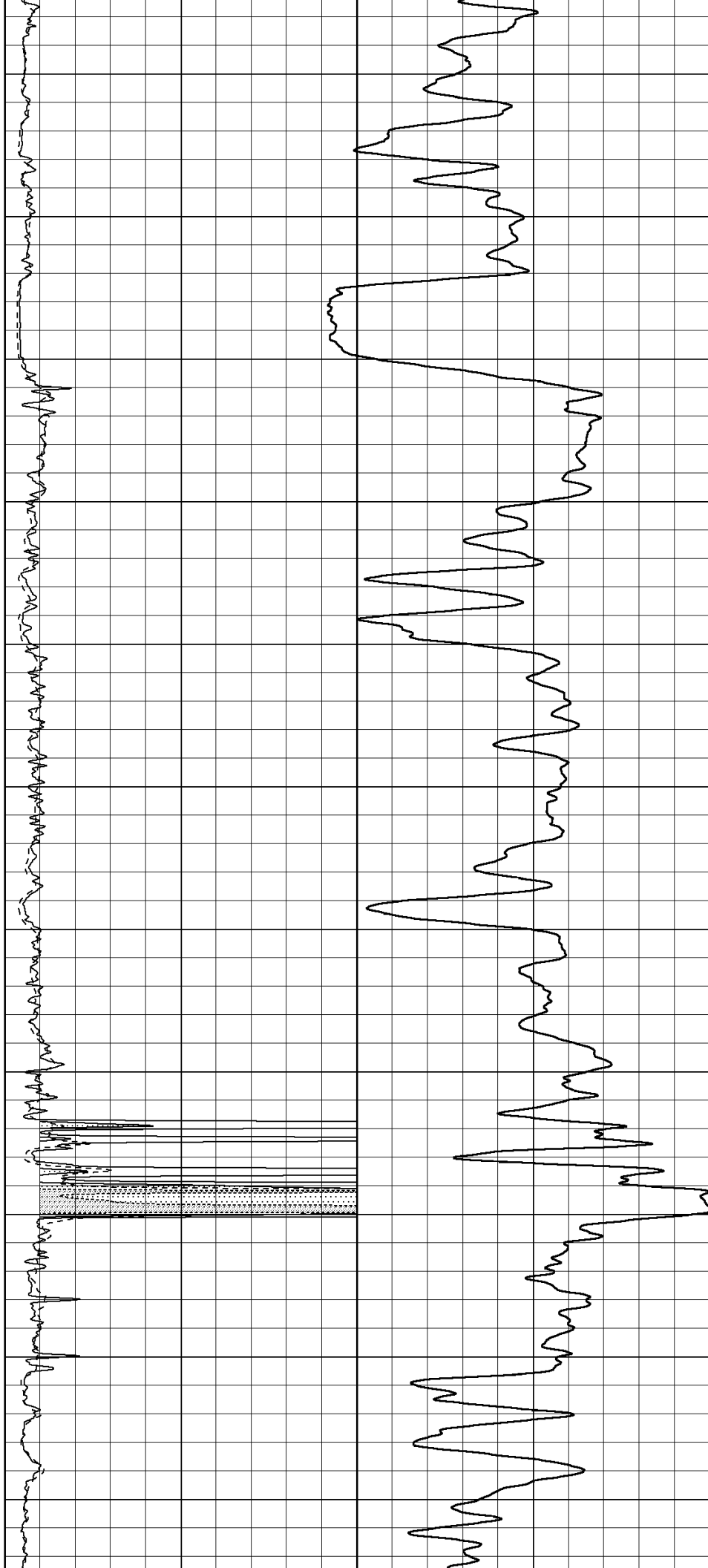
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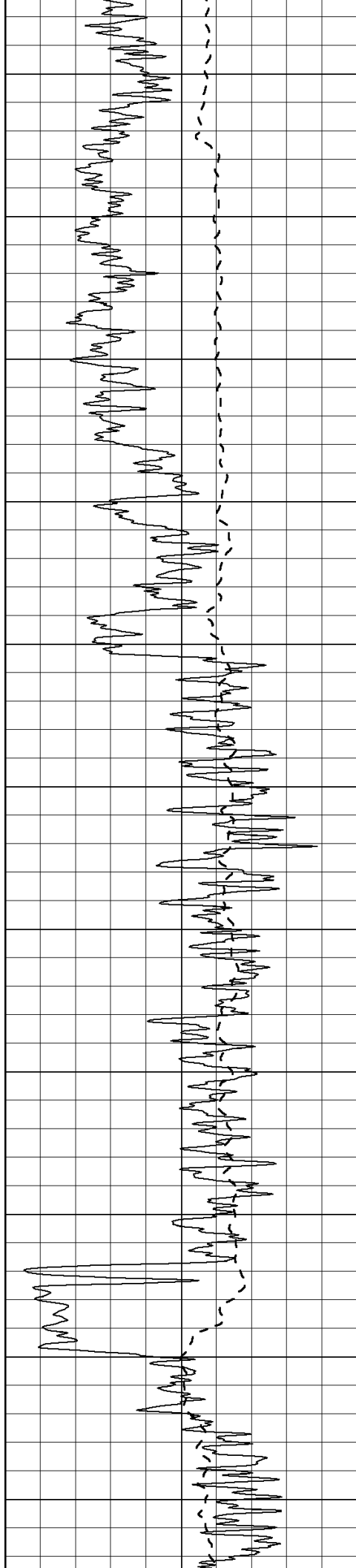
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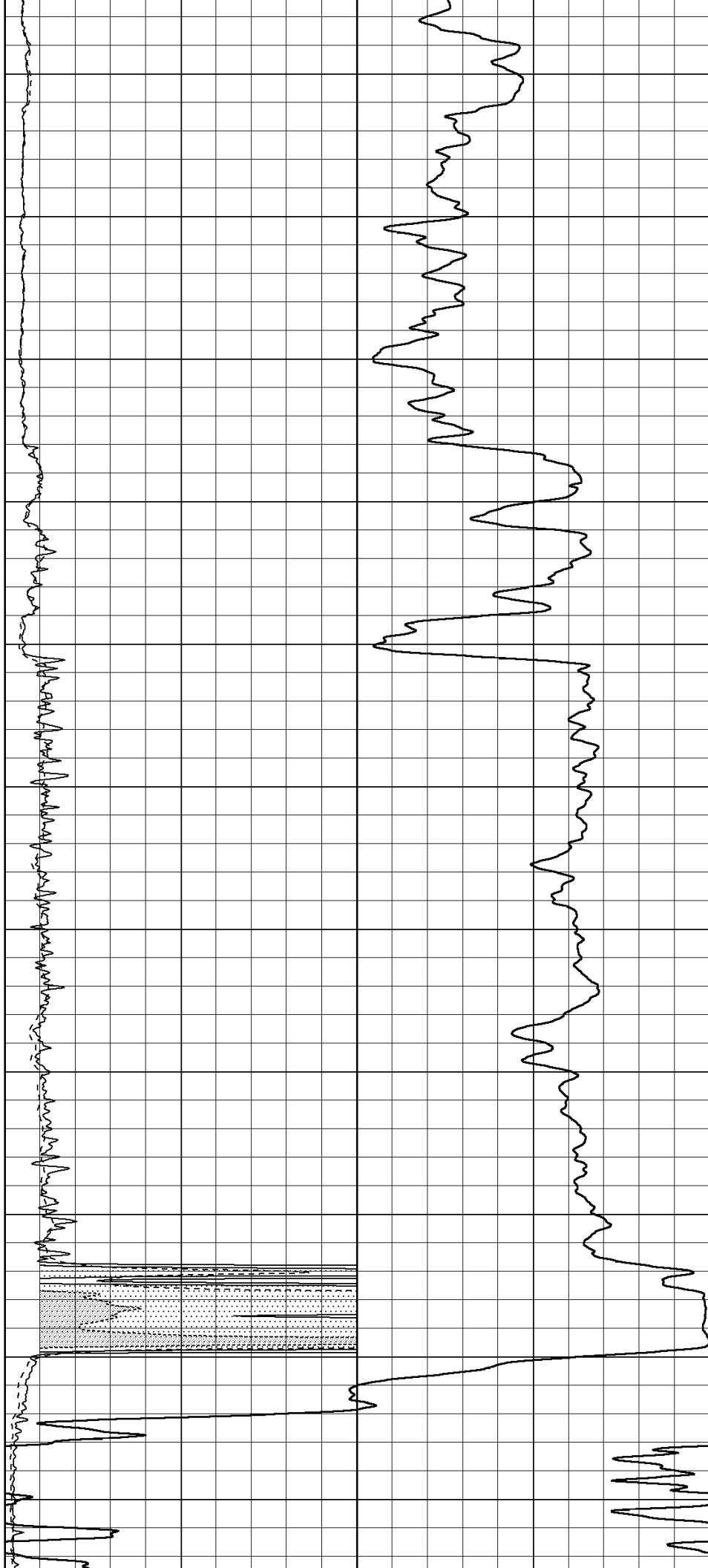
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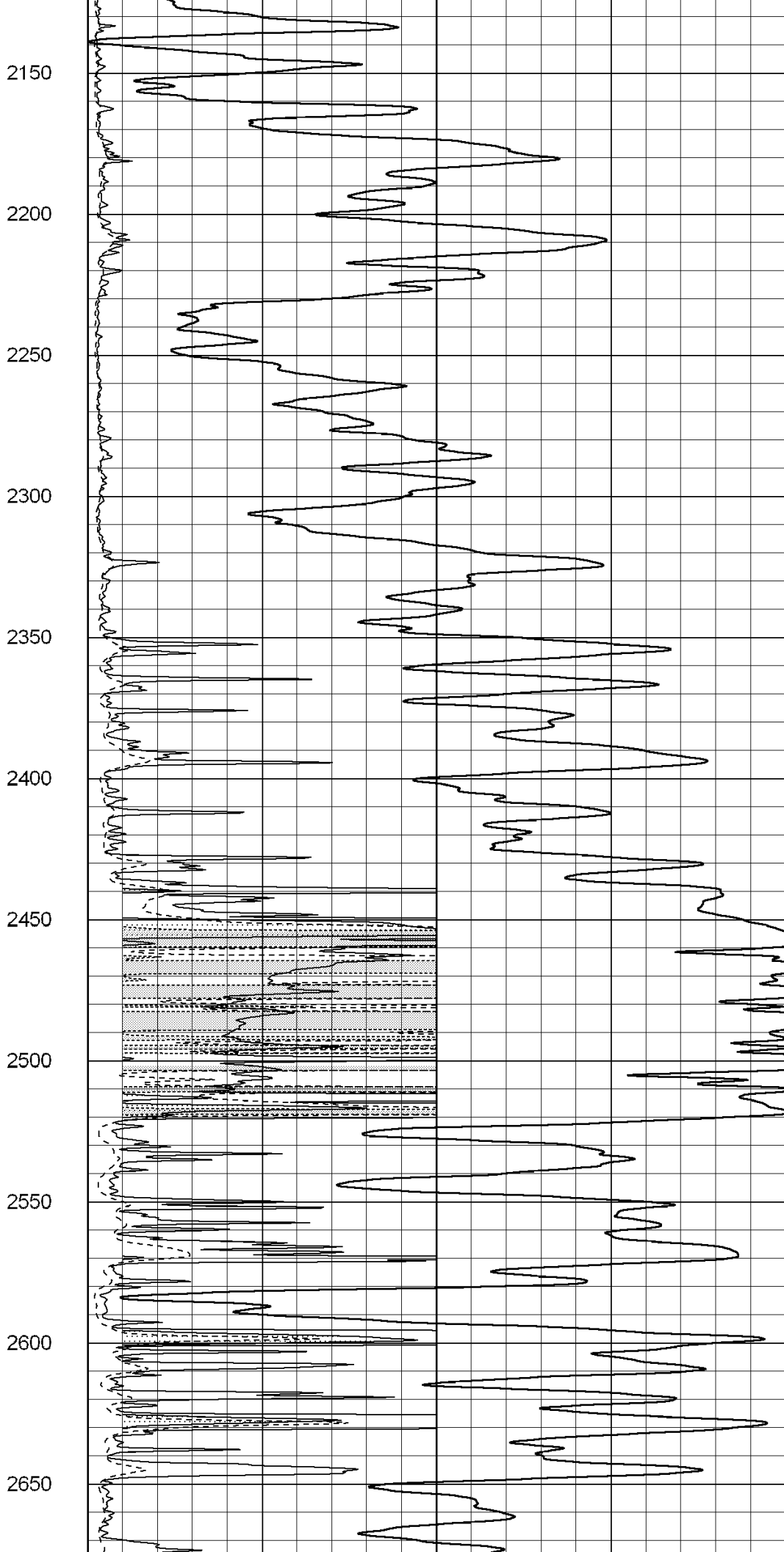
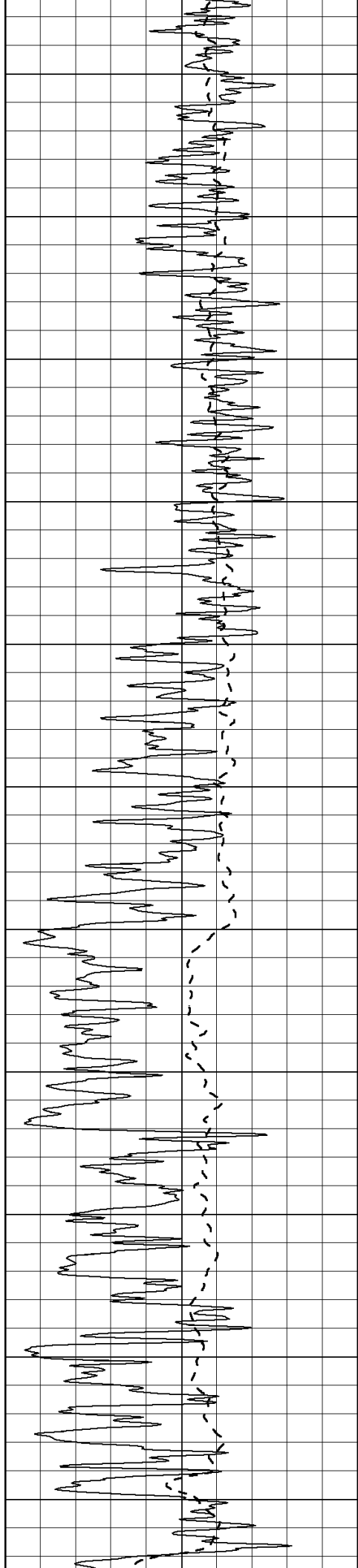
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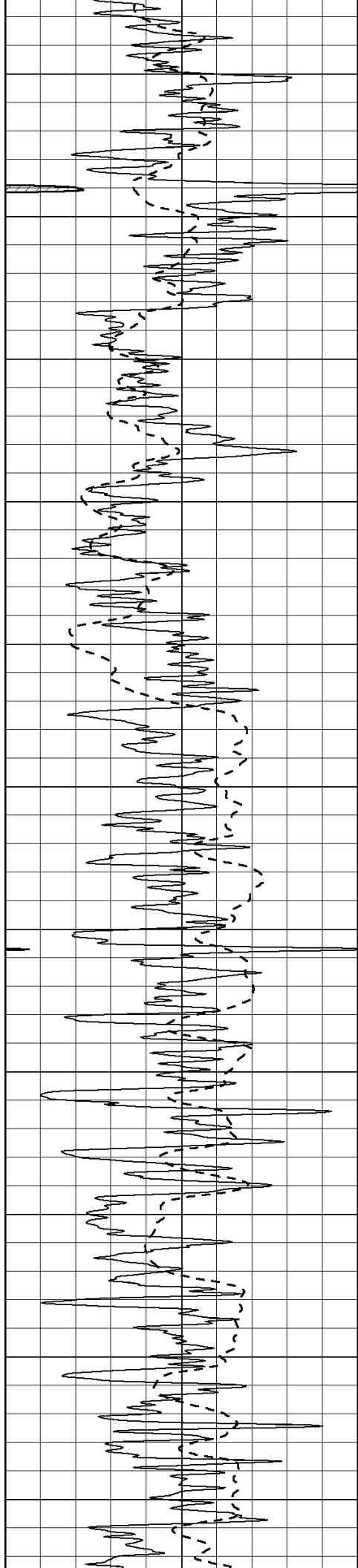




1600
1650
1700
1750
1800
1850
1900
1950
2000
2050
2100







2700

2750

2800

2850

2900

2950

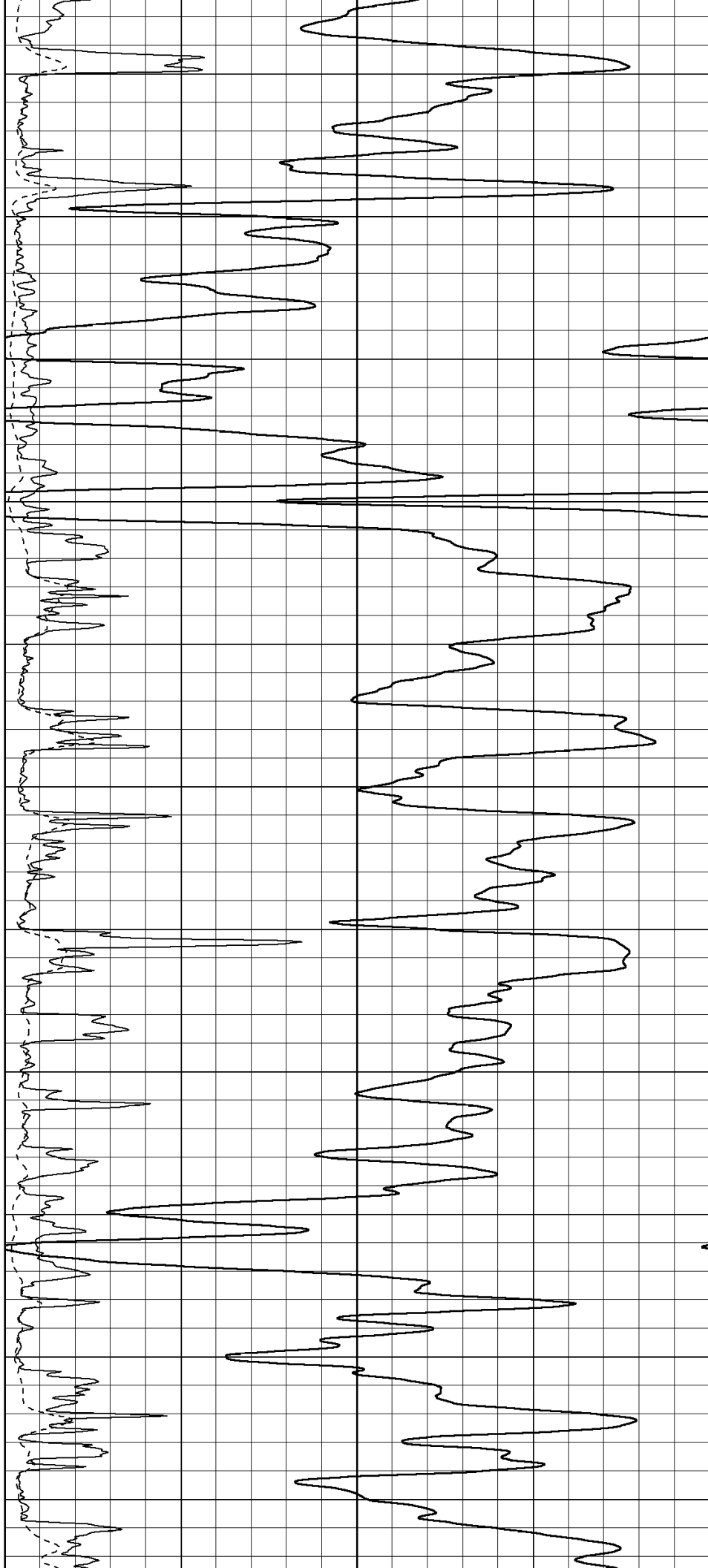
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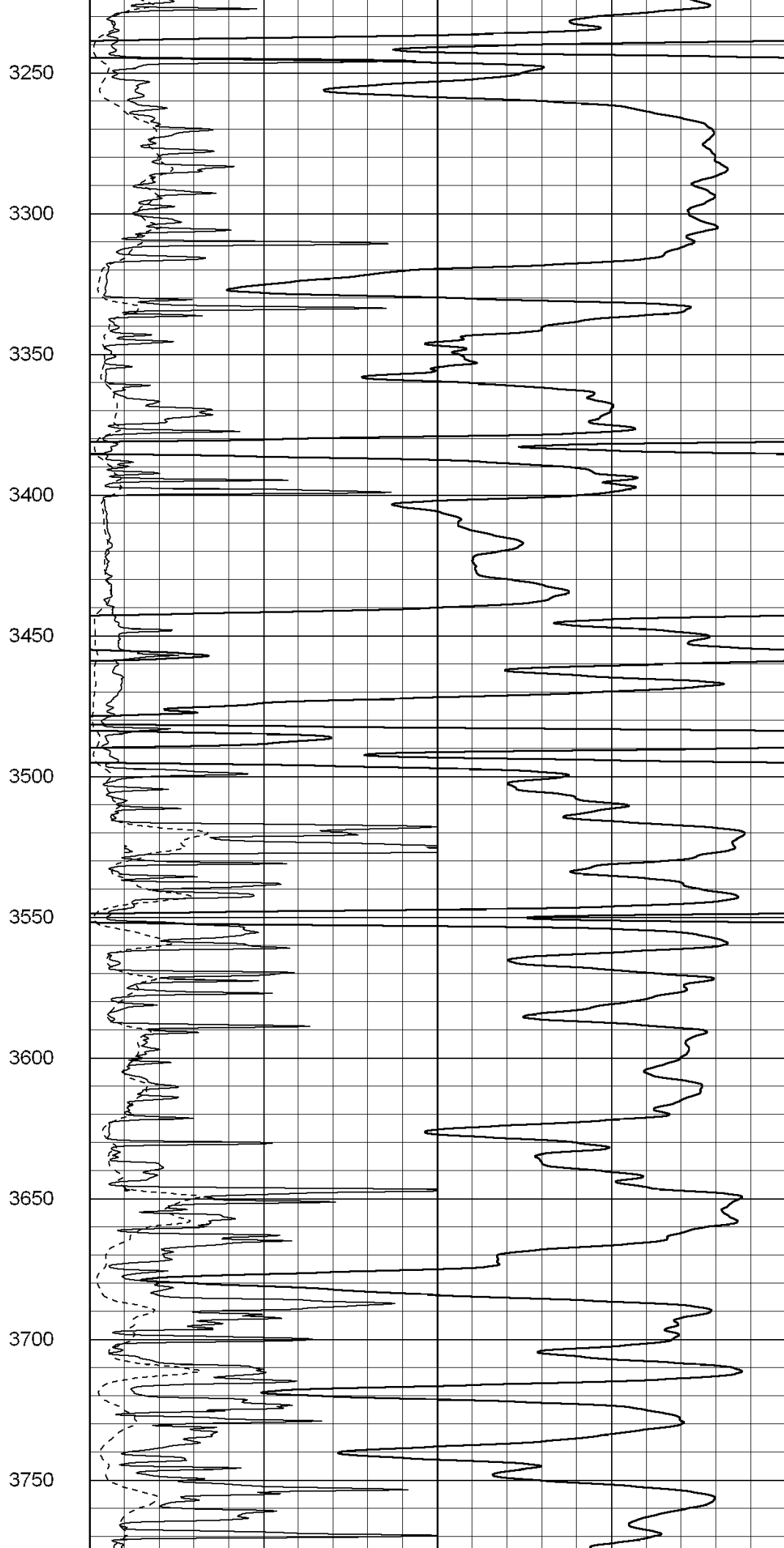
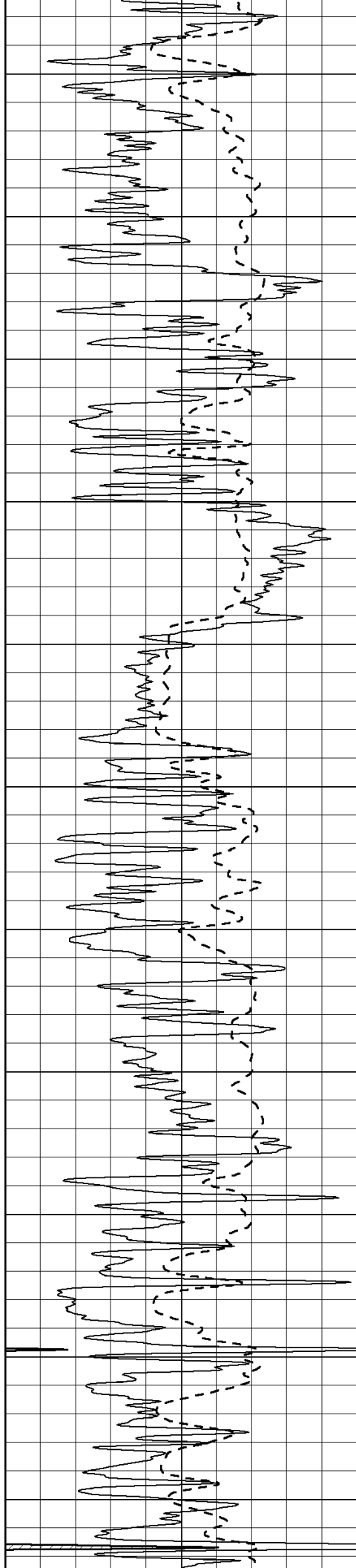
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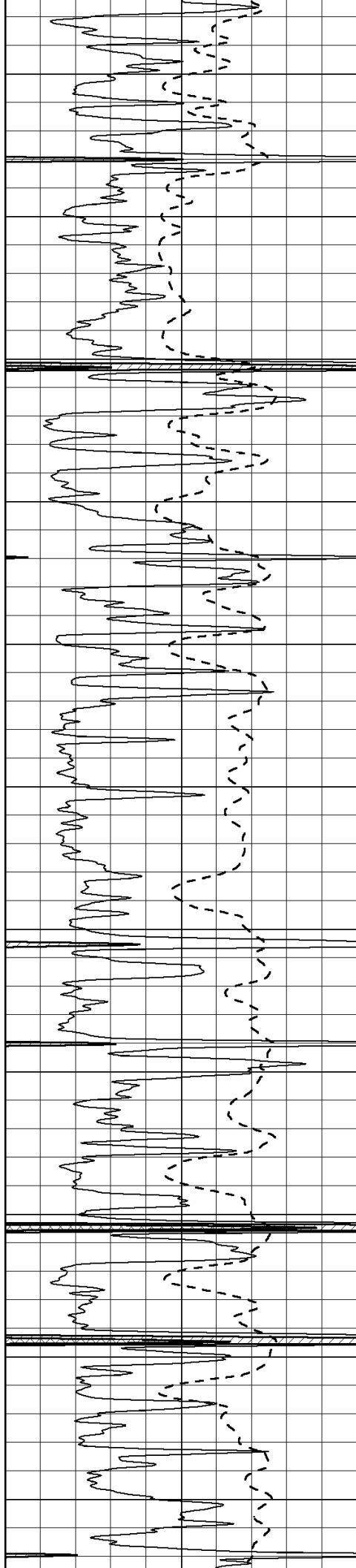
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3150

3200







3800

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3900

3950

4000

4050

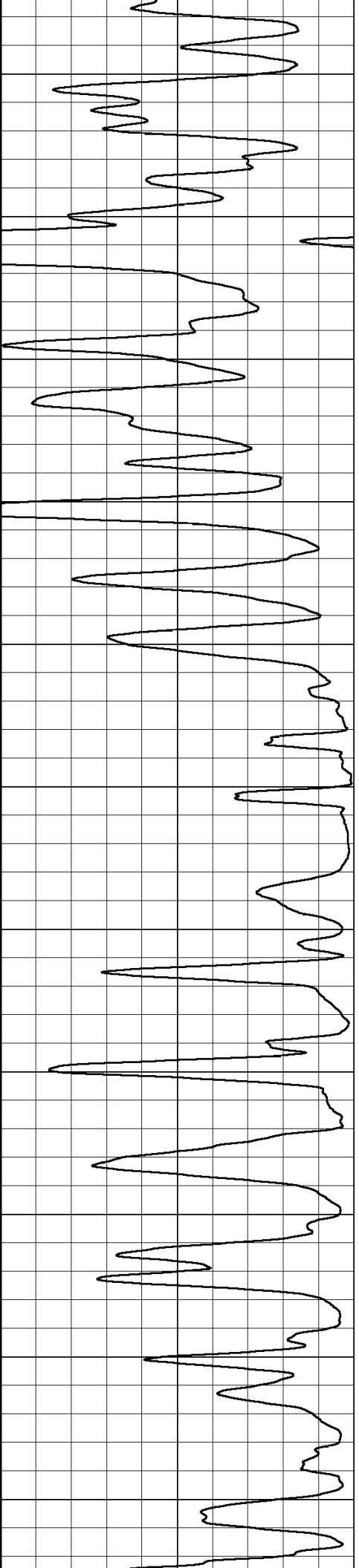
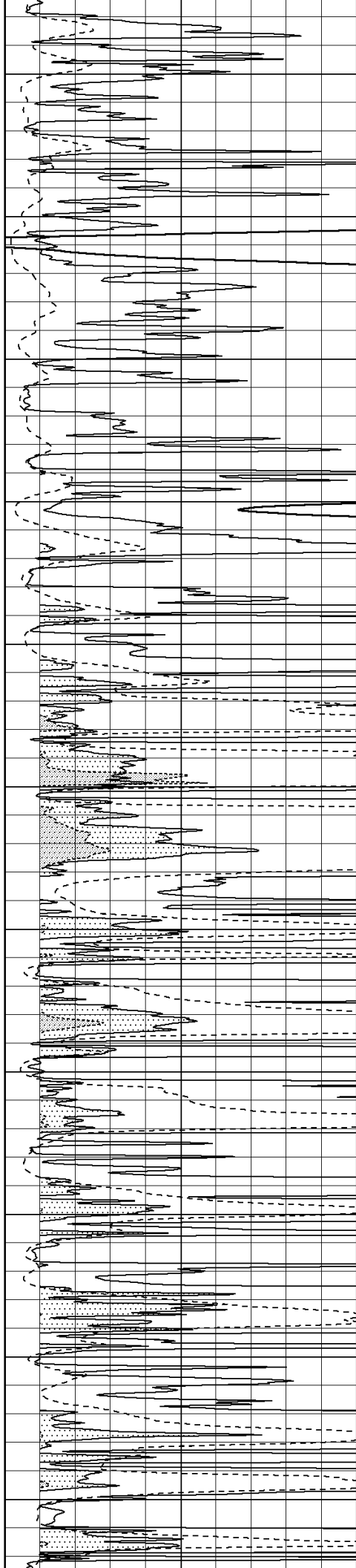
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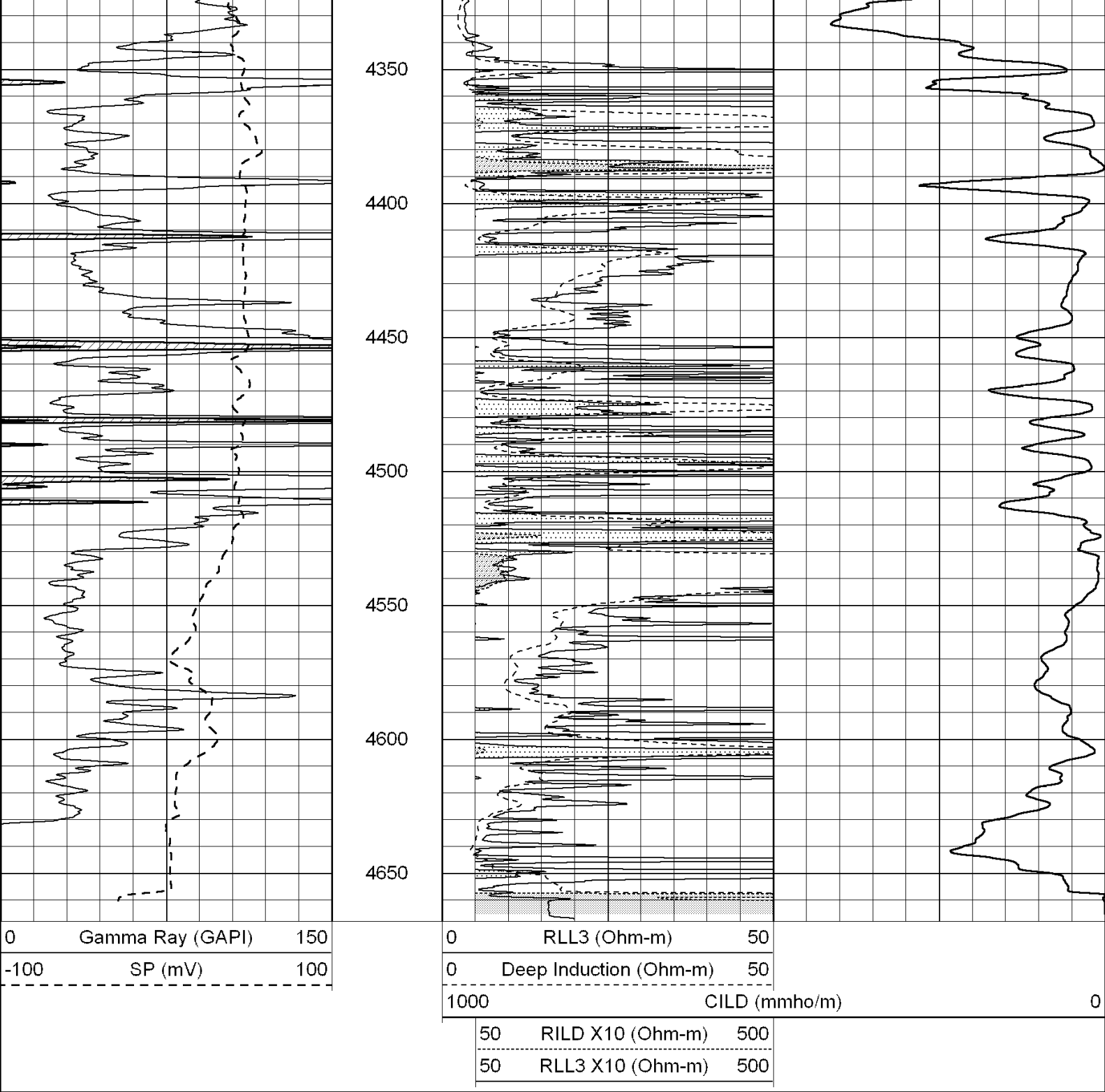
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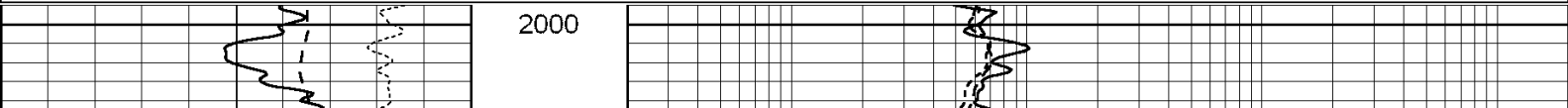
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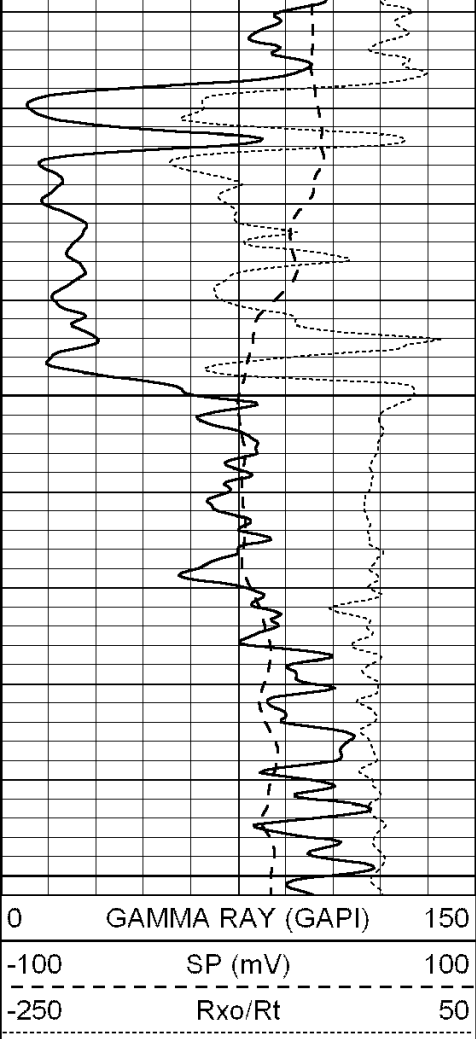




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Dataset Pathname: pass3.2
Presentation Format: _dil
Dataset Creation: Fri Mar 19 04:41:10 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

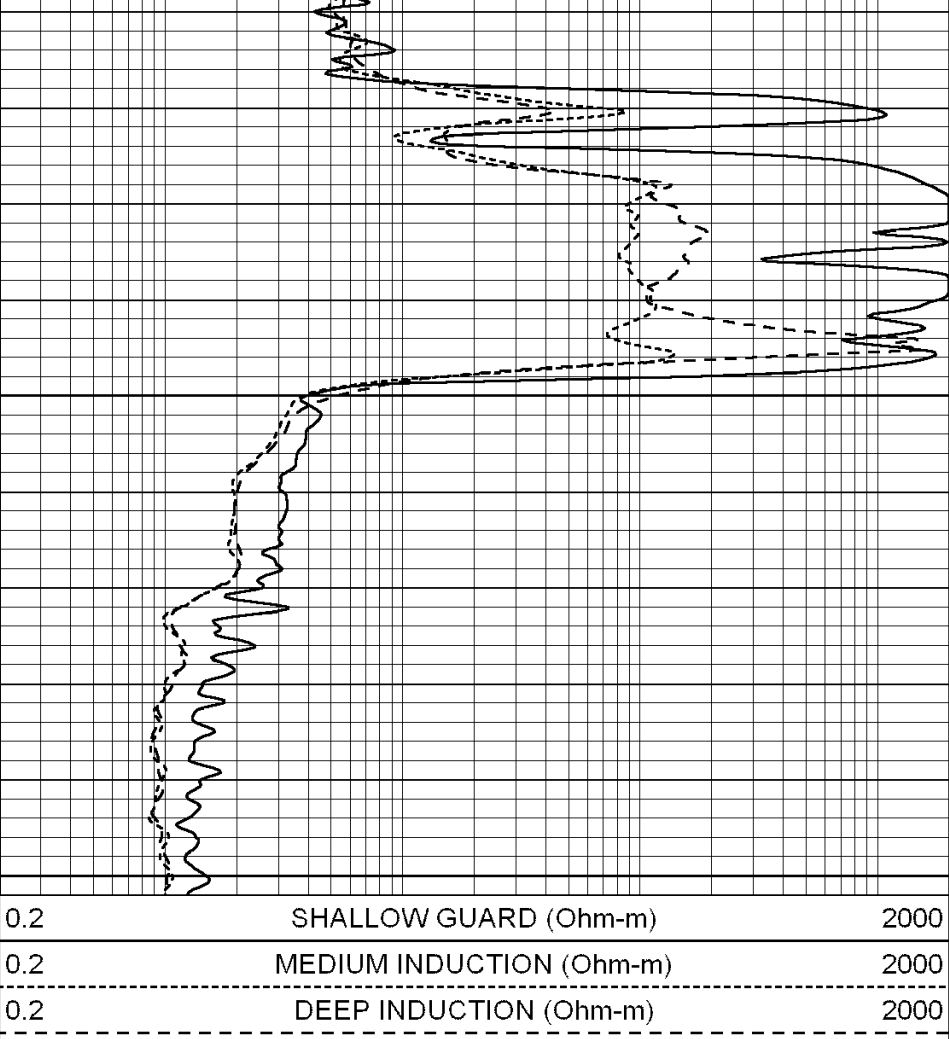
0	GAMMA RAY (GAPI)	150		0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100		0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50		0.2	DEEP INDUCTION (Ohm-m)	2000



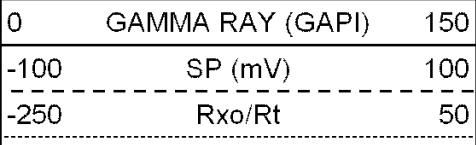


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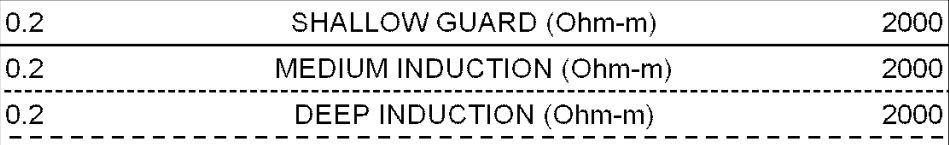


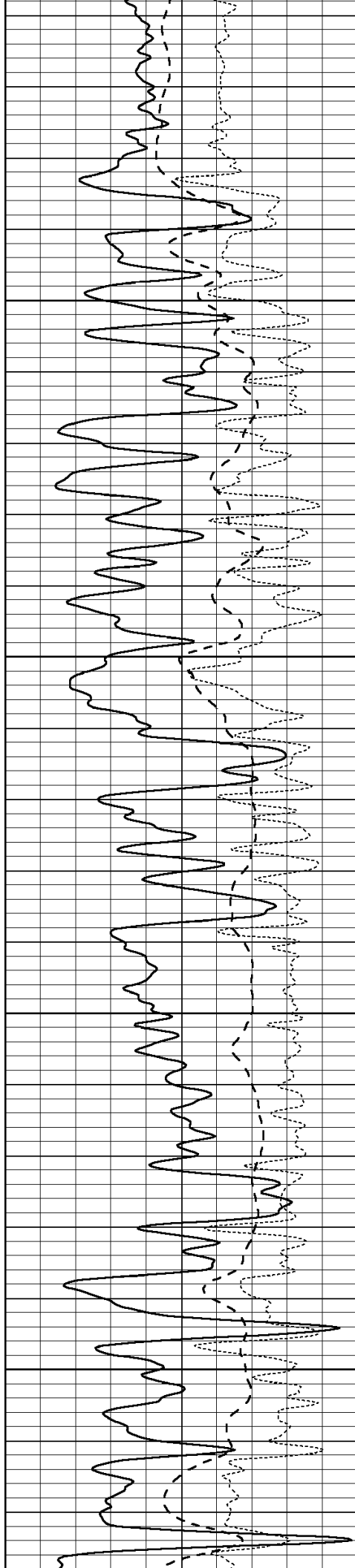
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Charted by: Depth in Feet scaled 1:240



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3450



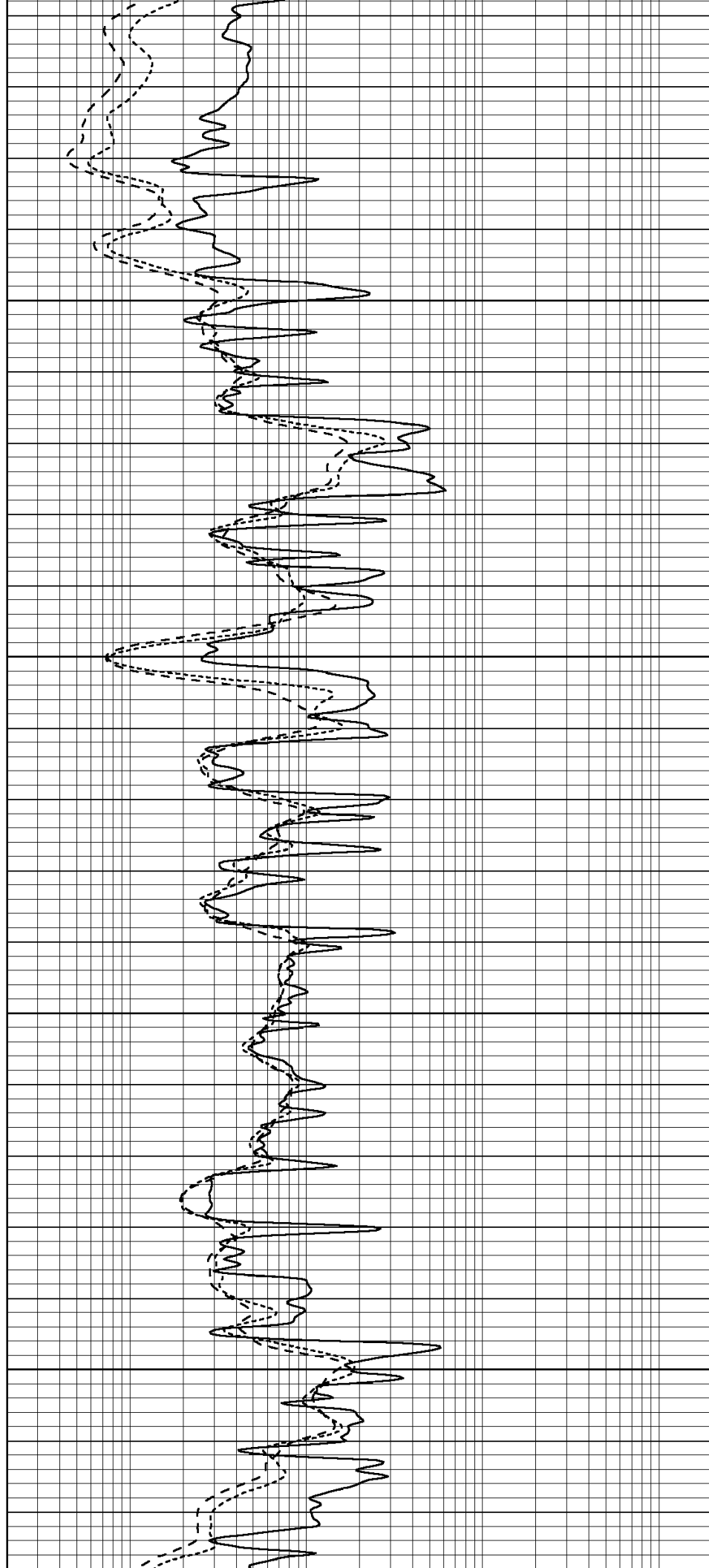


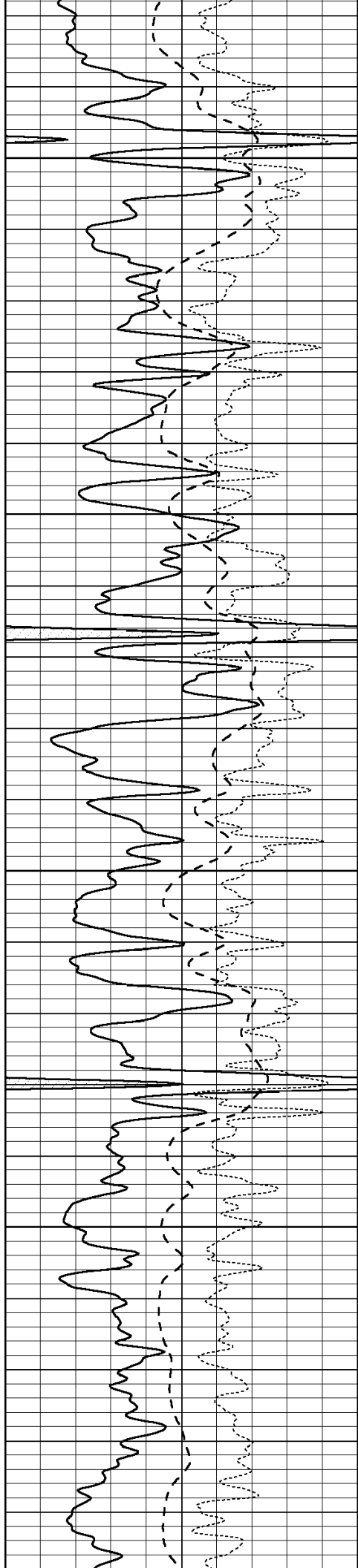
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3550

3600

3650



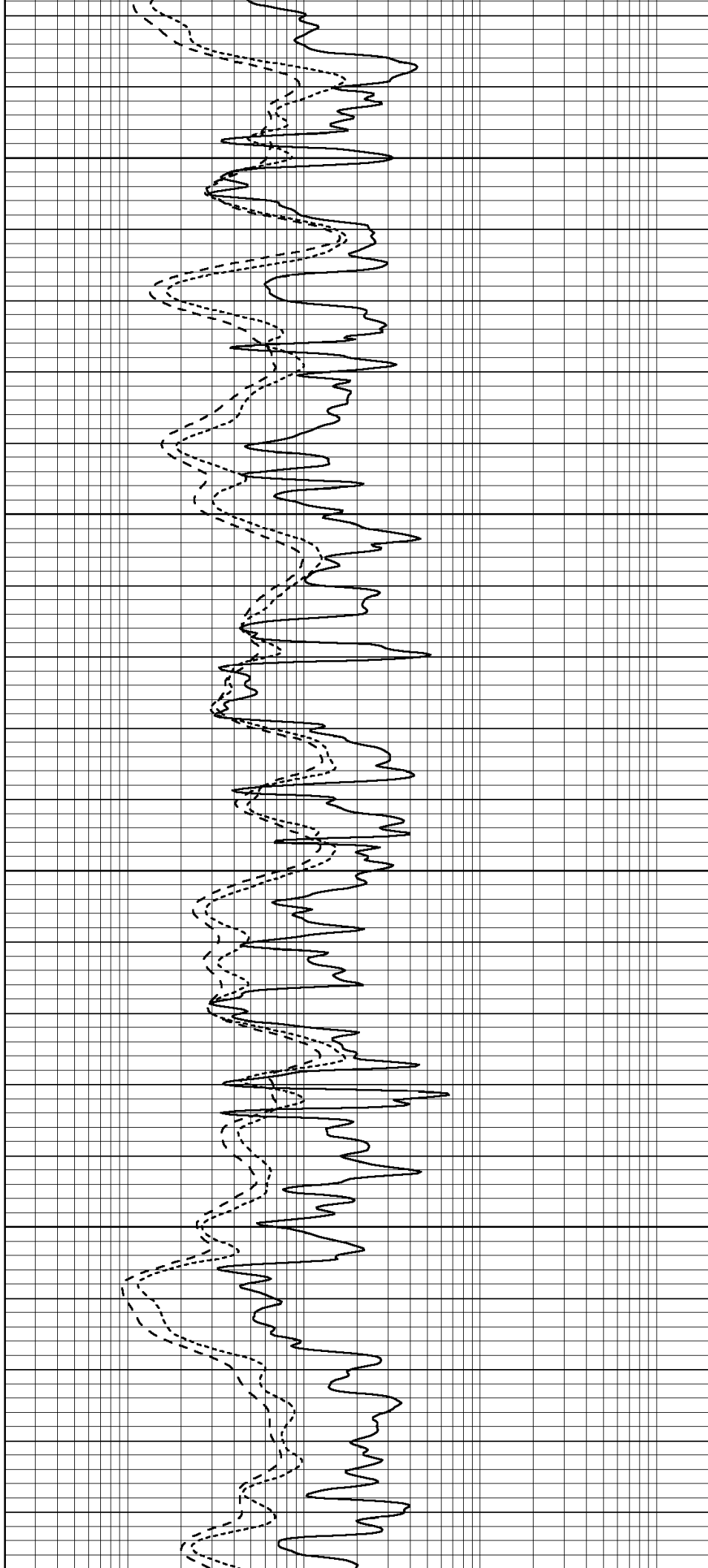


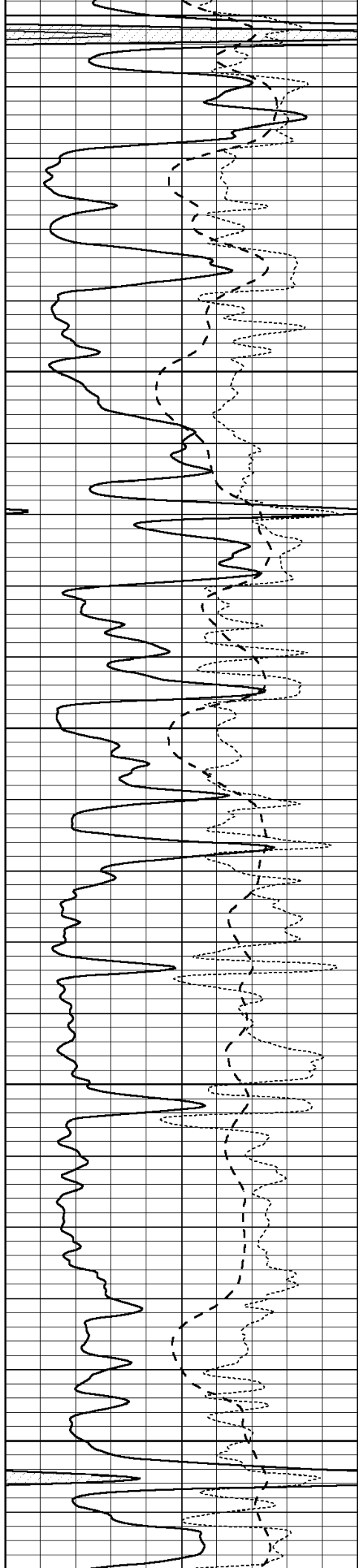
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3800

3850





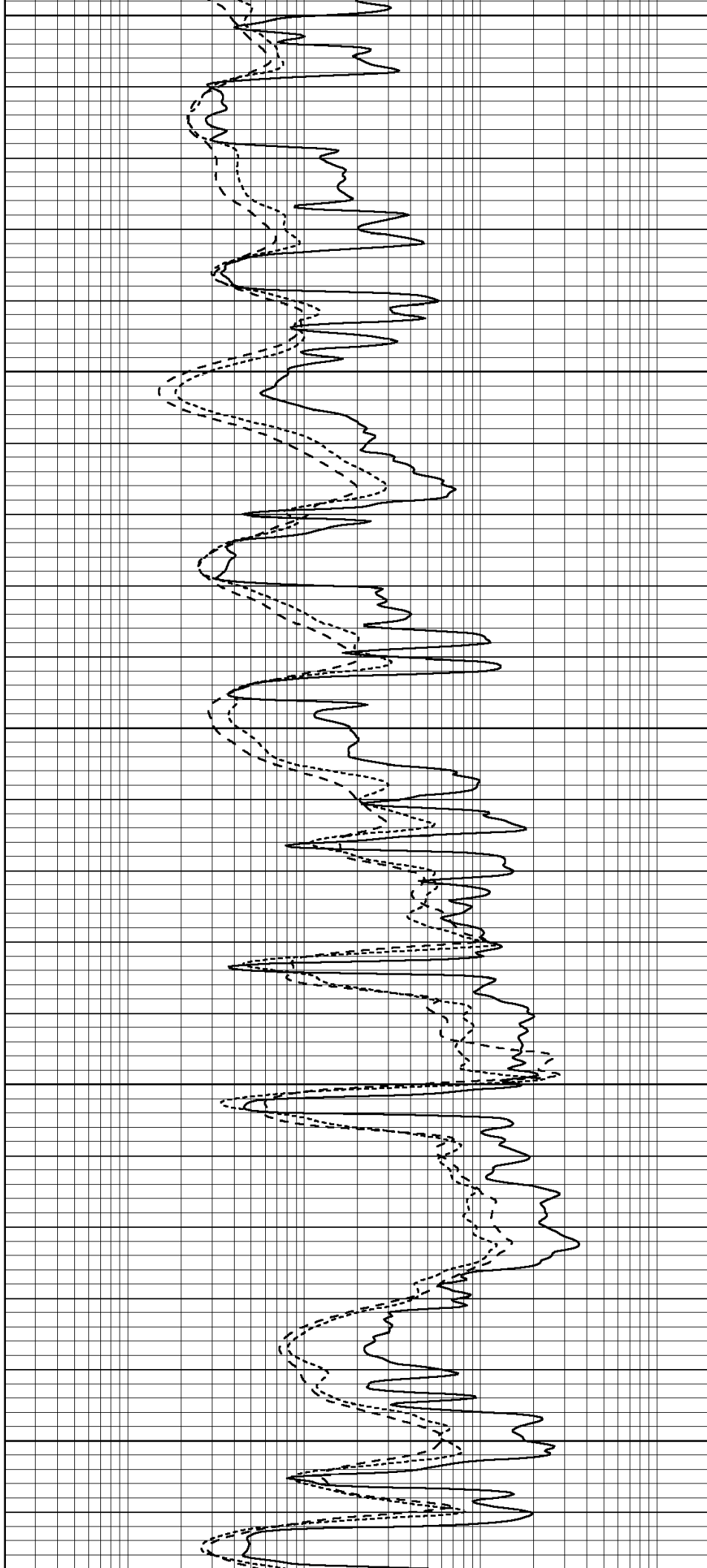
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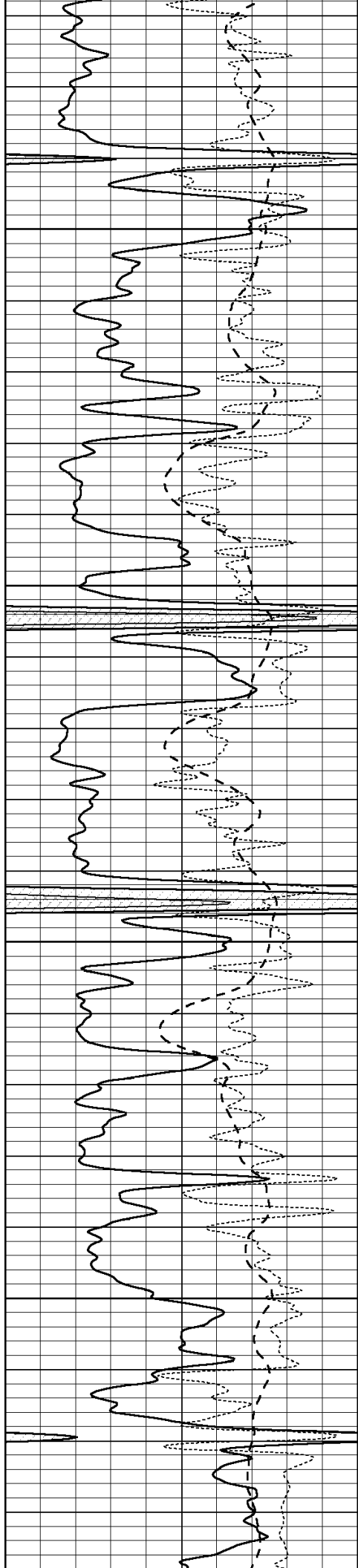
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4000

4050

4100



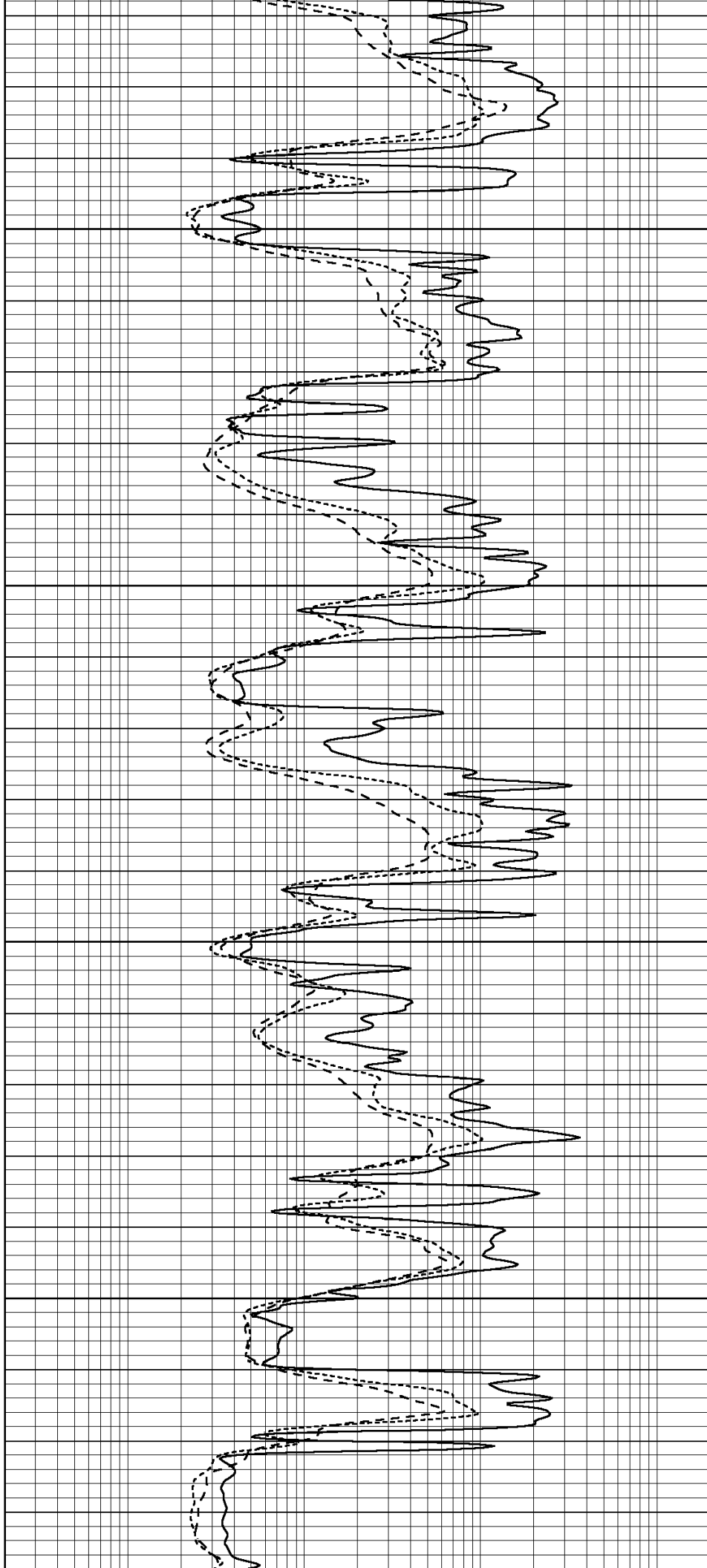


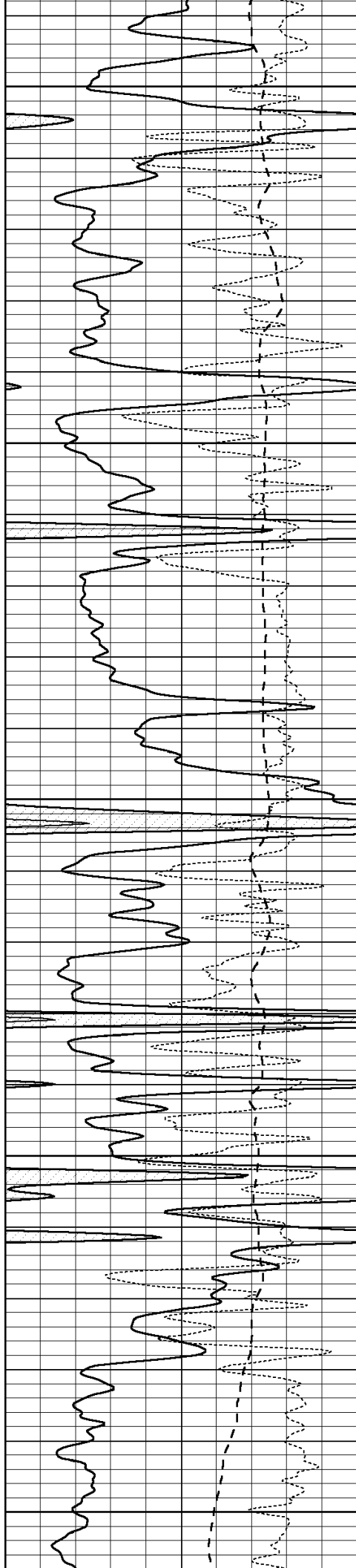
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4200

4250

4300





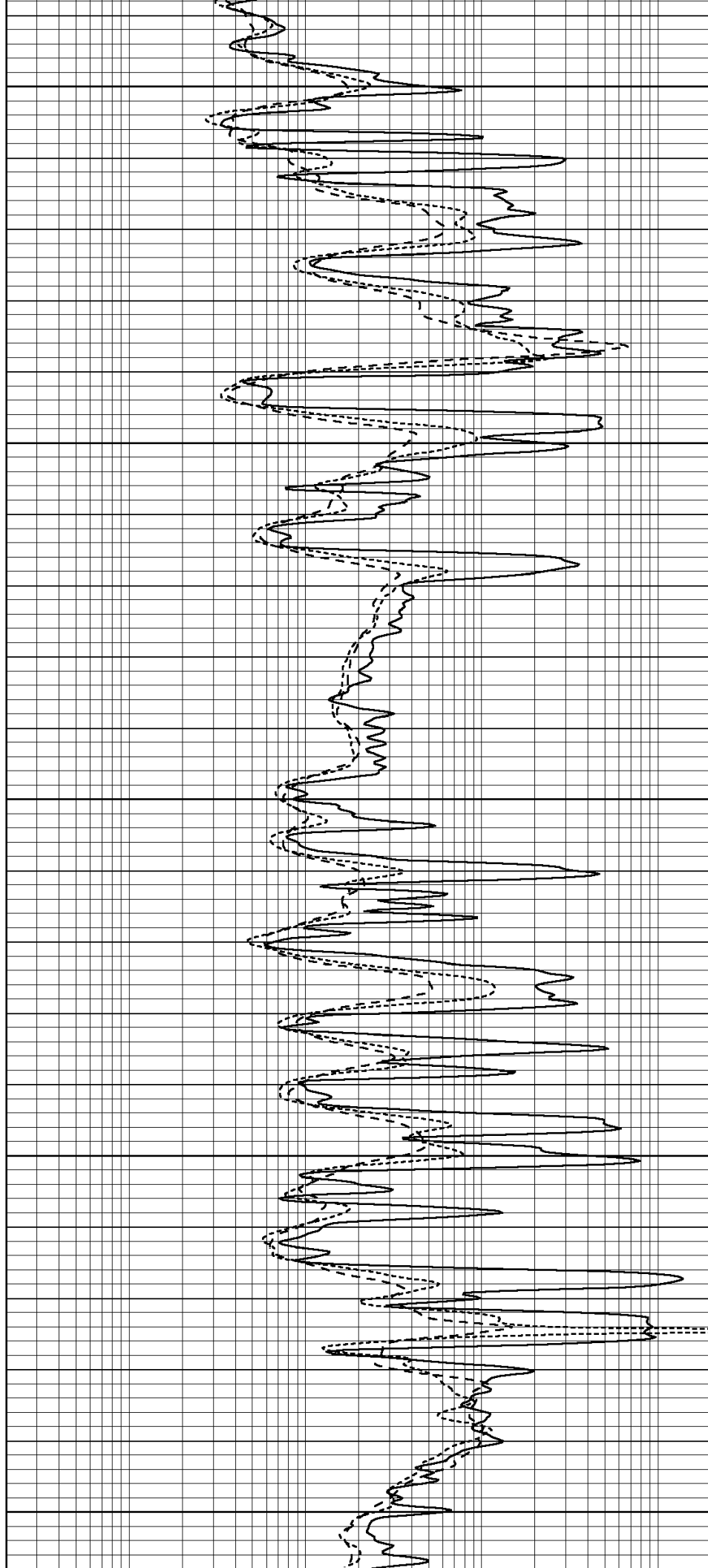
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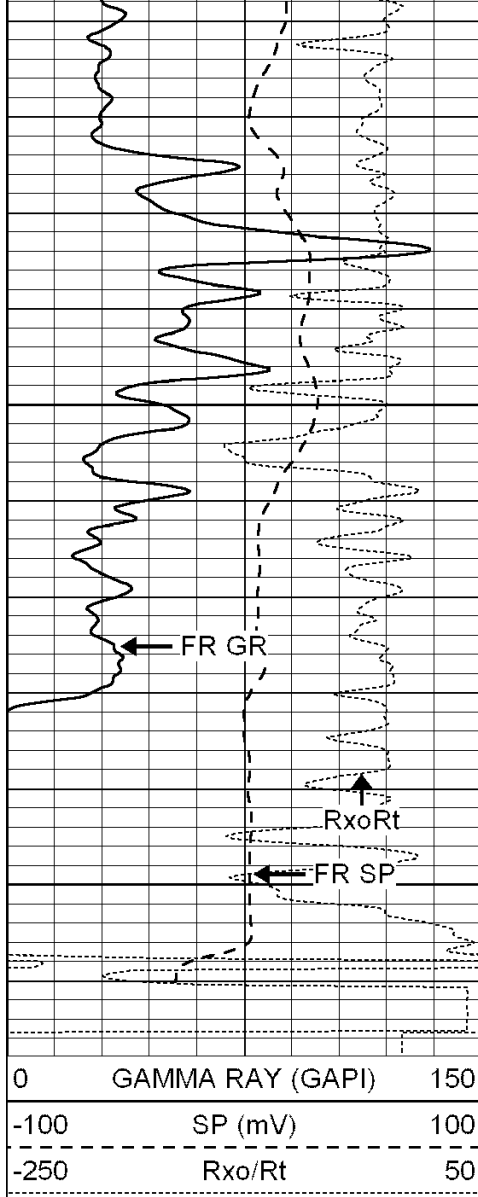
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4450

4500

4550

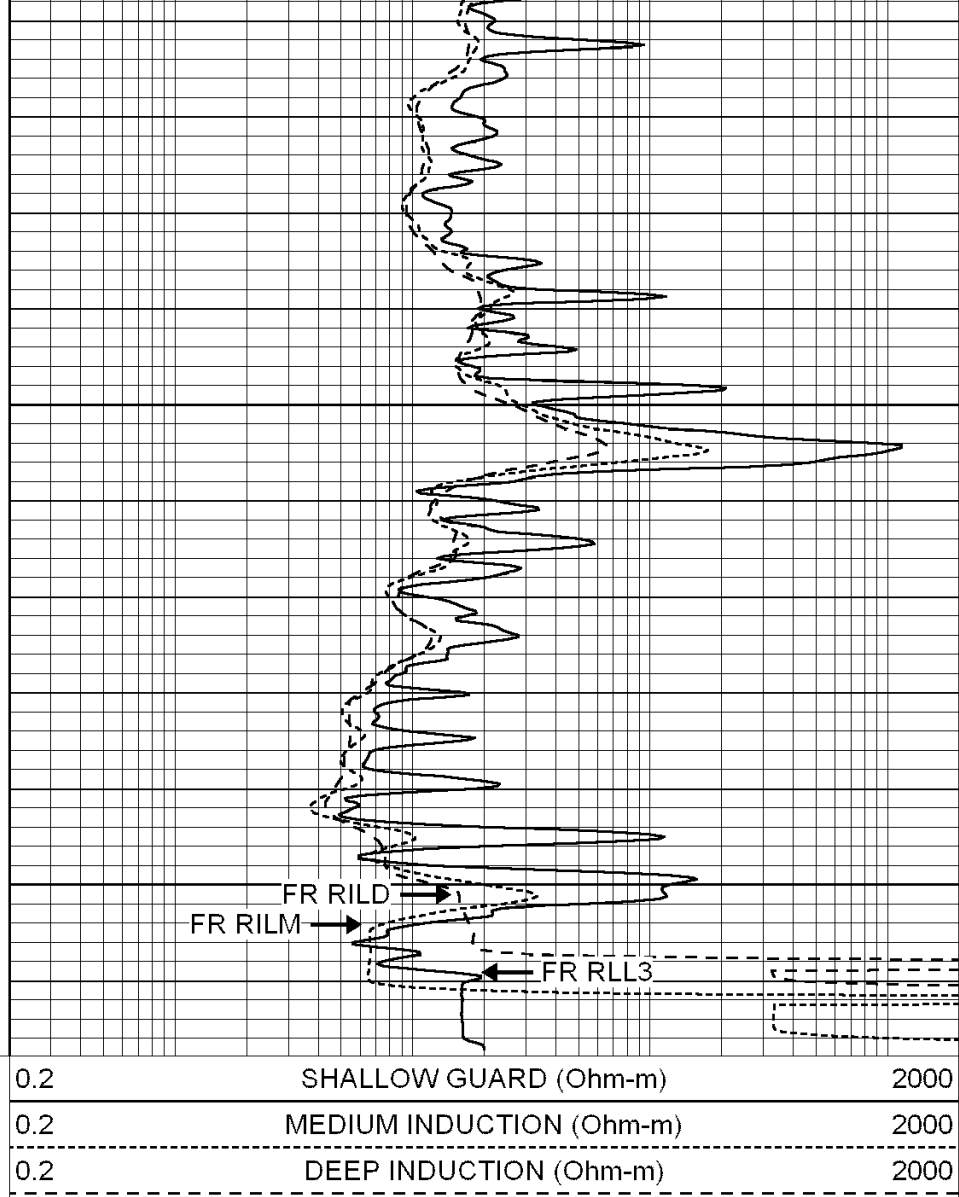




4600

4650

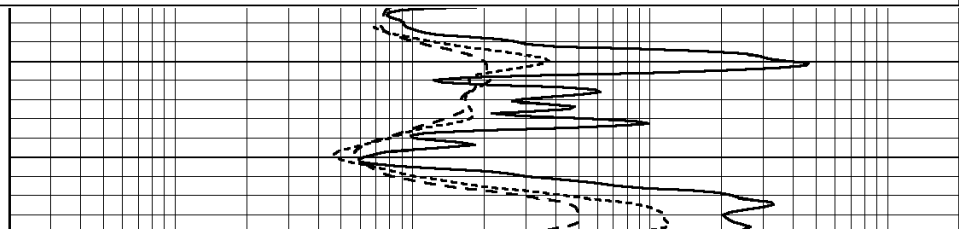
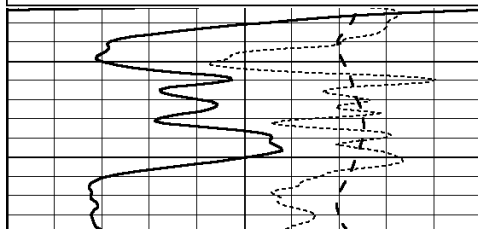
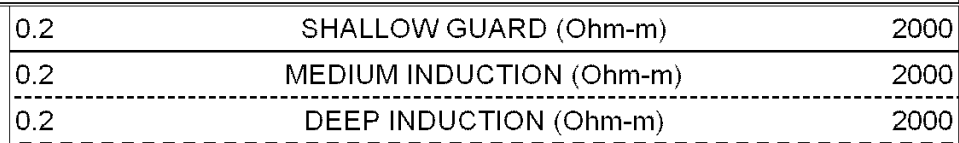
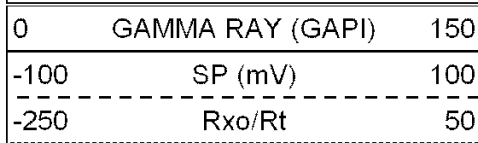
LTD 4661

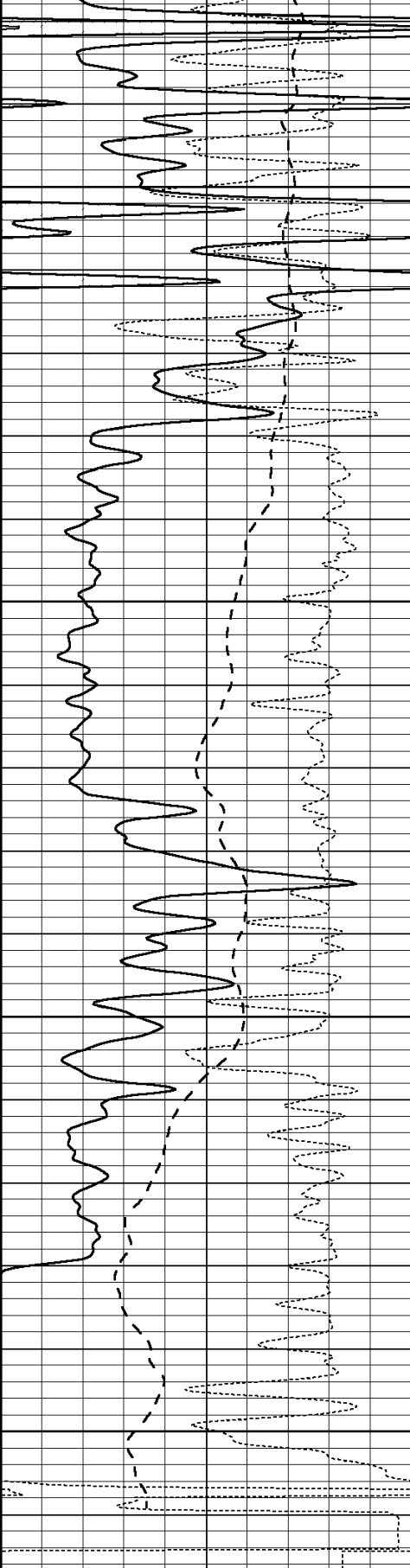


SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 005103ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _dil
 Dataset Creation: Fri Mar 19 03:16:29 2010 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240





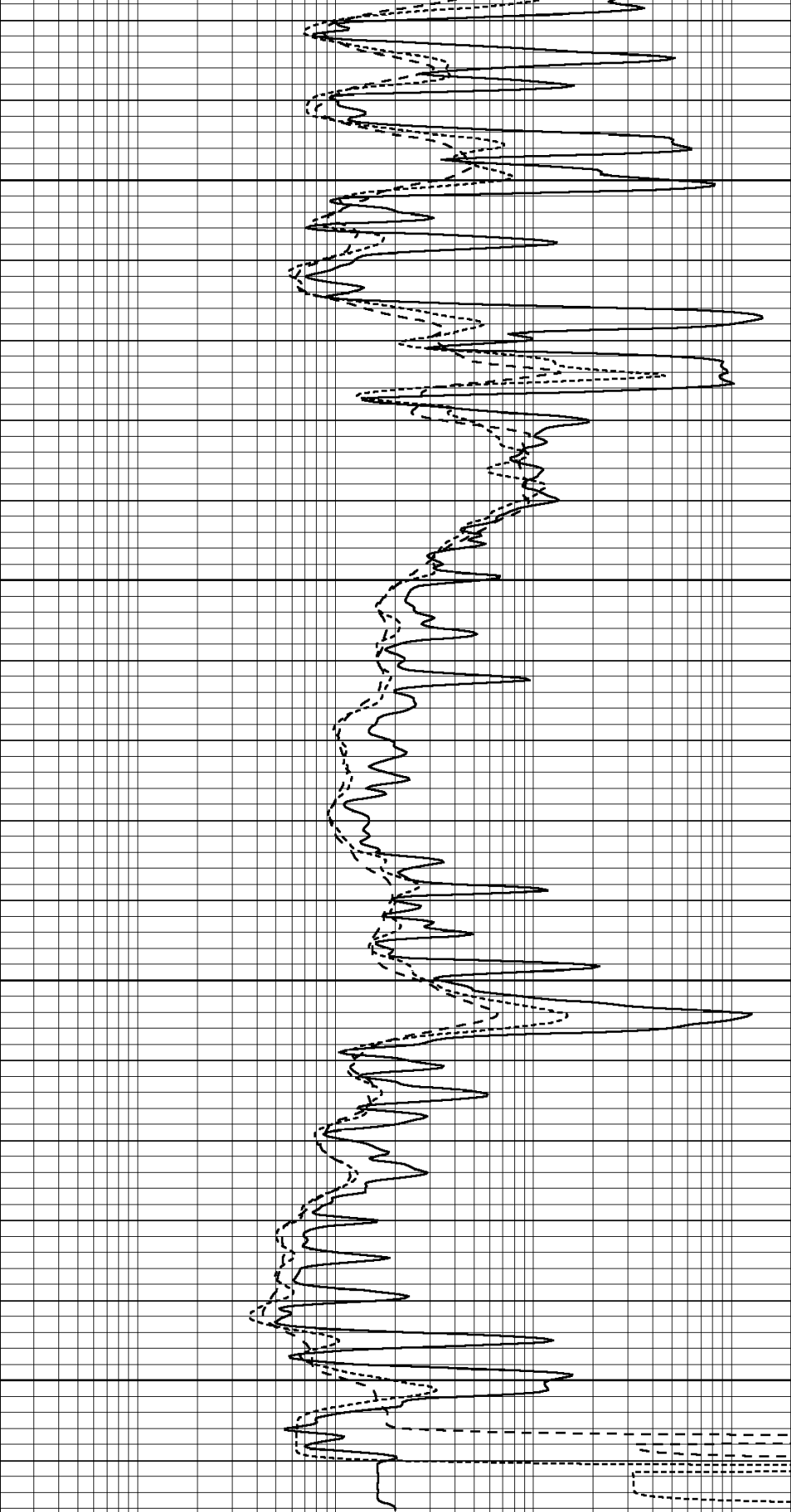
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50

4500

4550

4600

4650



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

Database File: 005103ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Fri Mar 19 03:16:29 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Fri Aug 01 06:33:19 2008
Downhole Cal Performed: Mon Jul 28 11:08:27 2008
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	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
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		
		-6.500	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		

Compensated Density Calibration Report

Serial-Model: GEAR3-GEARHART
Source / Verifier: 143 / 143
Master Calibration Performed: Fri Mar 06 10:44:04 2009

Master Calibration

Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc	1127.25	444.45	cps
Aluminum	2.580	g/cc	260.89	307.54	cps
Spine Angle = 75.88			Density/Spine Ratio = 0.577		
Size			Reading		
Small Ring	8.00	in	4.15	V	
Large Ring	14.00	in	5.96	V	

Compensated Neutron Calibration Report

Serial Number: 51

		Serial Number:		51	
		Tool Model:		G	
CALIBRATION					
Detector		Readings		Target	
				Normalization	
Short Space		1.00	cps	1.00	cps
Long Space		1.00	cps	1.00	cps
				1.0000	
				1.0000	
Gamma Ray Calibration Report					
Serial Number:		GR6			
Tool Model:		OPEN			
Performed:		Tue Nov 10 08:32:36 2009			
Calibrator Value:		150.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		276.0	cps		
Sensitivity:		0.5535	GAPI/cps		