



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company	VINCENT OIL COPORATION		
Well	FRINK #1-28		
Field			
County	FORD	State	KANSAS
Location:	API # : 15-057-20652		Other Services CDL/CNL/PE SONIC/MEL
40' FSL & 1620' FWL			
SEC 28 TWP 28S RGE 23W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2514
Log Measured From	KELLY BUSHING 12' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	1-1-10		
Run Number	ONE		
Depth Driller	5400		
Depth Logger	5398		
Bottom Logged Interval	5396		
Top Log Interval	00		
Casing Driller	580		
Casing Logger	580		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	8.8 / 46		
pH / Fluid Loss	10.0 / 9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.40 @ 70F		
Rinf @ Meas. Temp	0.30 @ 70F		
Rmc @ Meas. Temp	0.48 @ 70F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.220 @ 129F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2:30 P.M.		
Maximum Recorded Temperature	129F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: KINGSDOWN, 2N TO WILBURN RD., W TO RD. #120, 1N, E INTO.



**SUPERIOR
Hays,
Kansas**

MAIN SECTION

Database File: 004777pdn.db
Dataset Pathname: pass4.1
Presentation Format: dil2
Dataset Creation: Fri Jan 01 16:29:06 2010 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:600

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

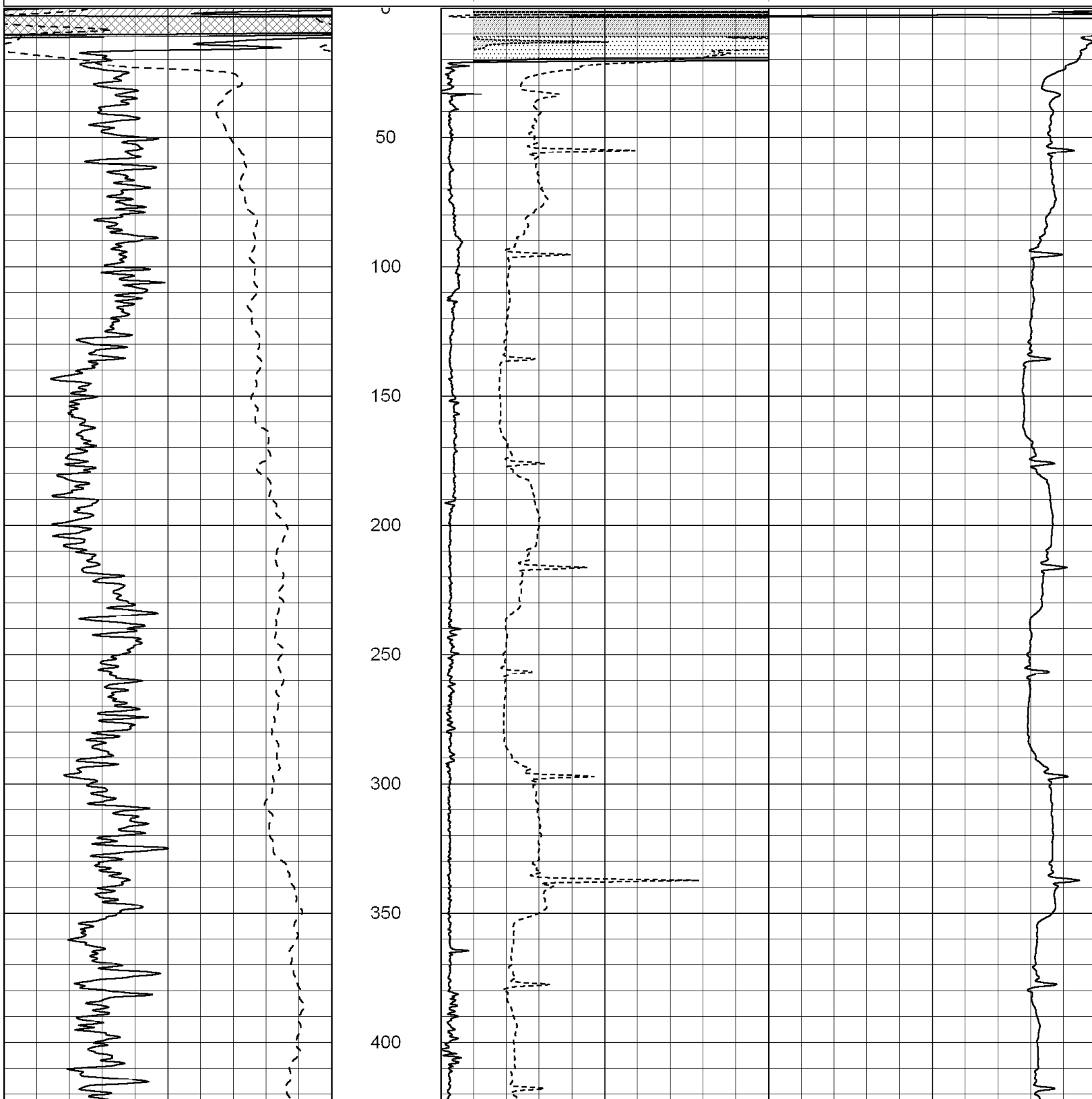
0	RLL3 (Ohm-m)	50
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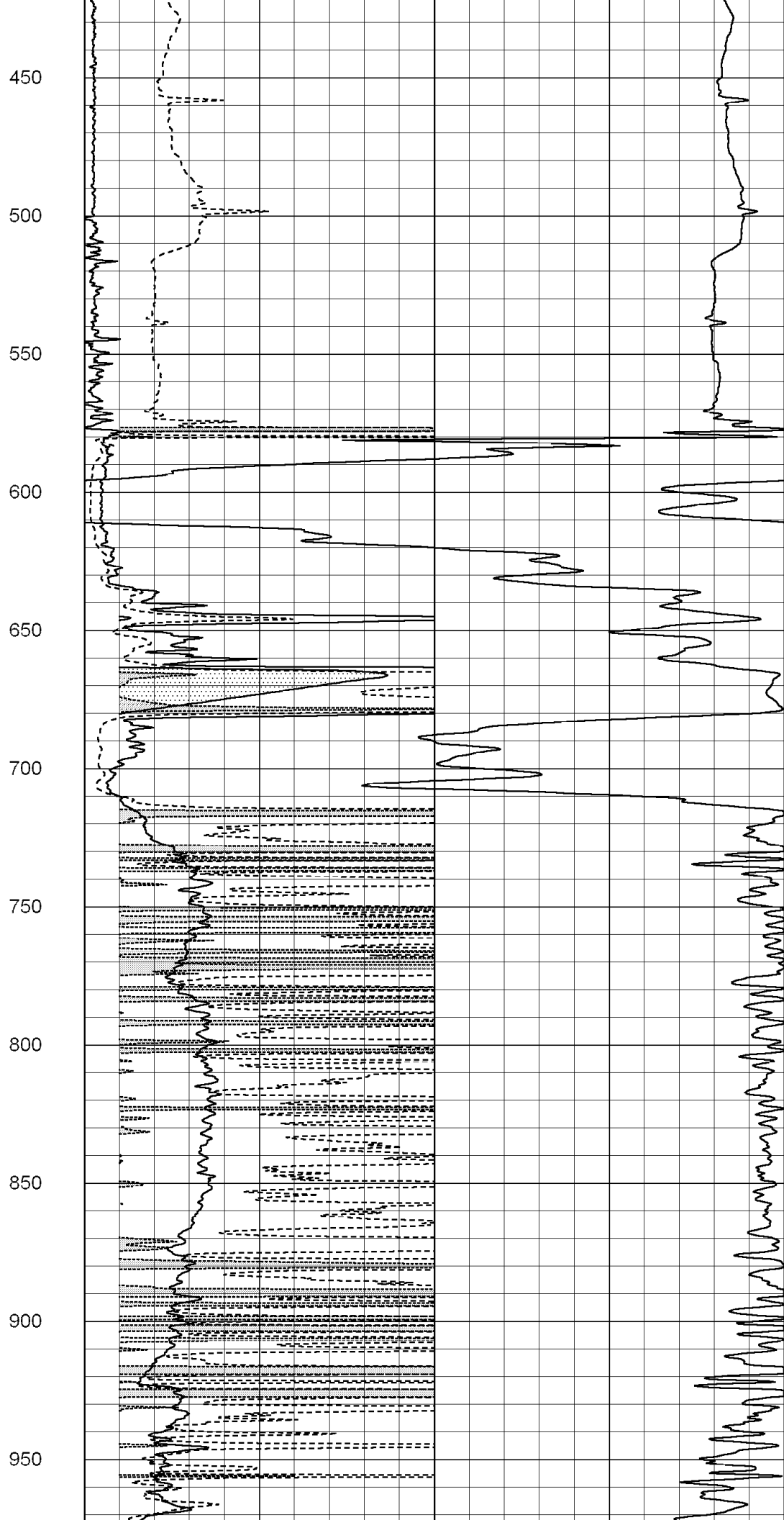
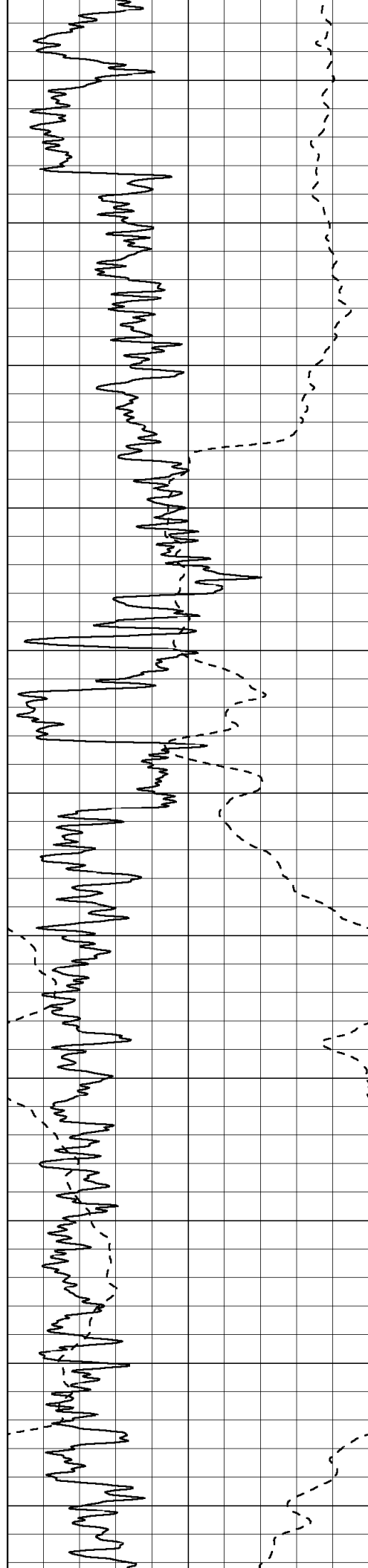
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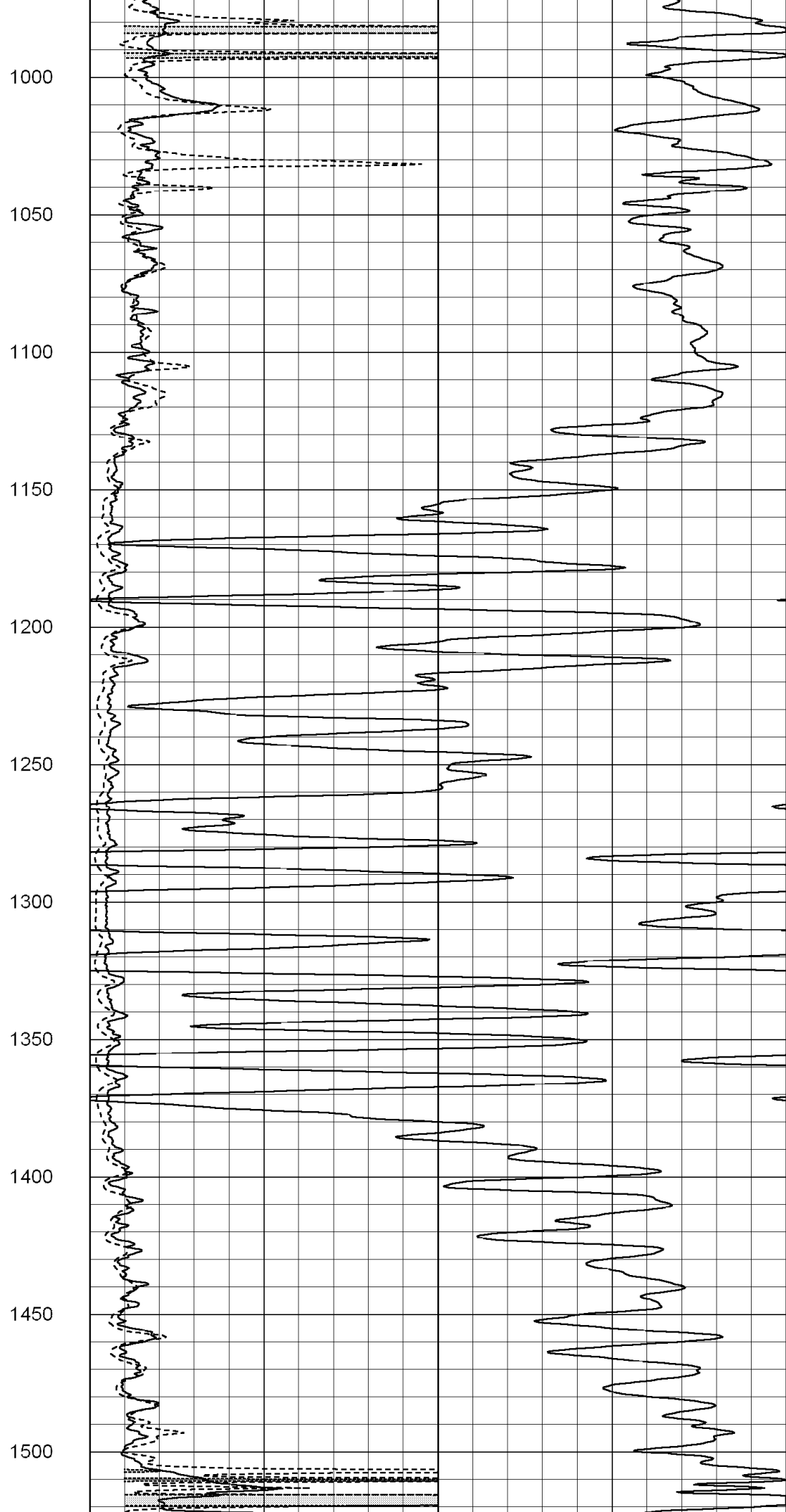
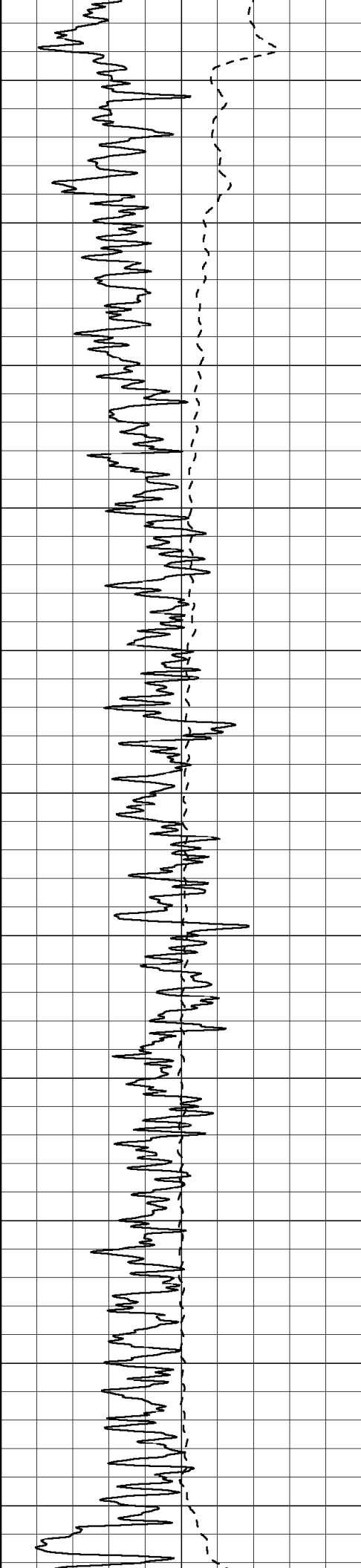
1000	CILD (mmho-m)	0
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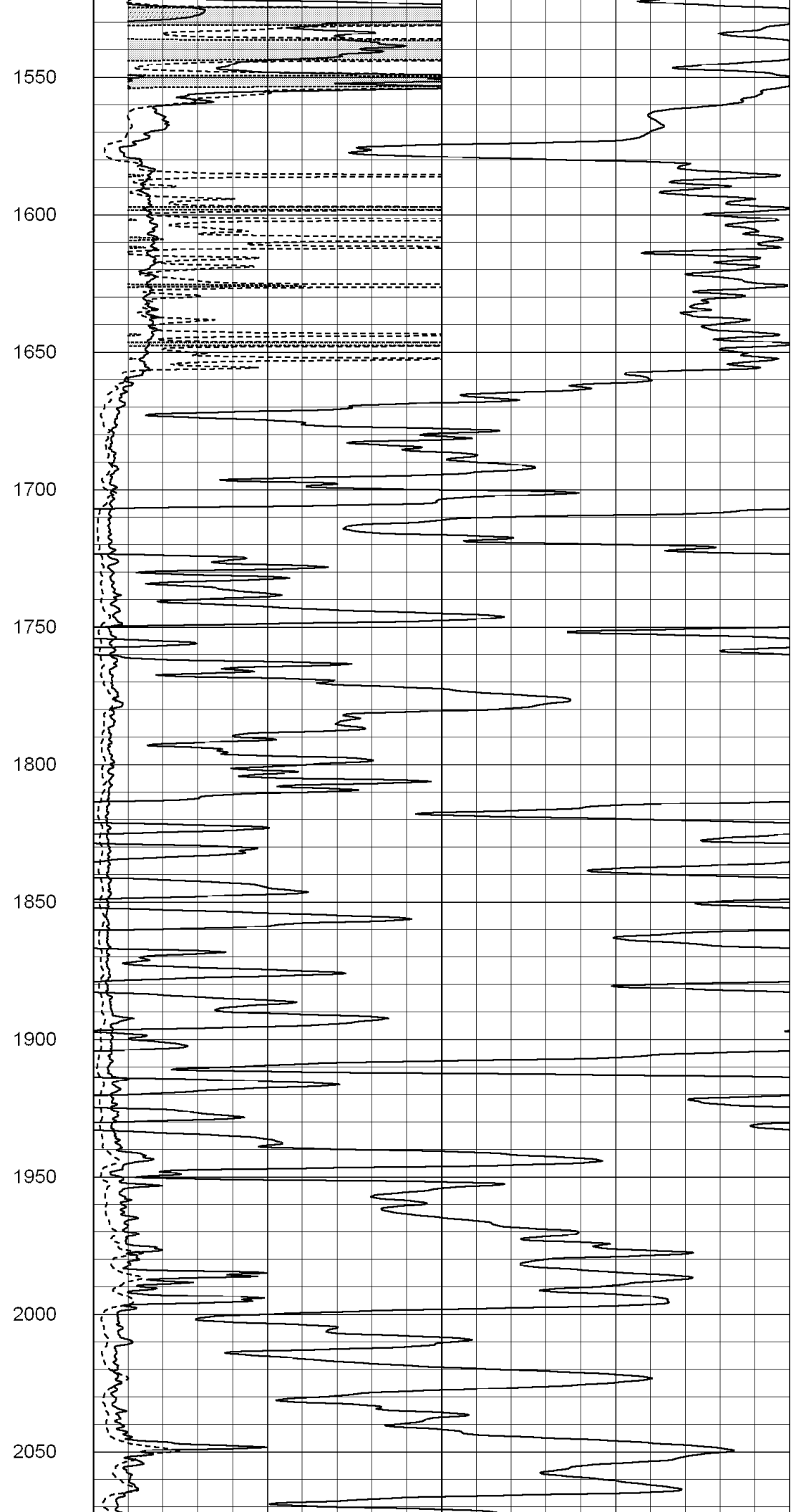
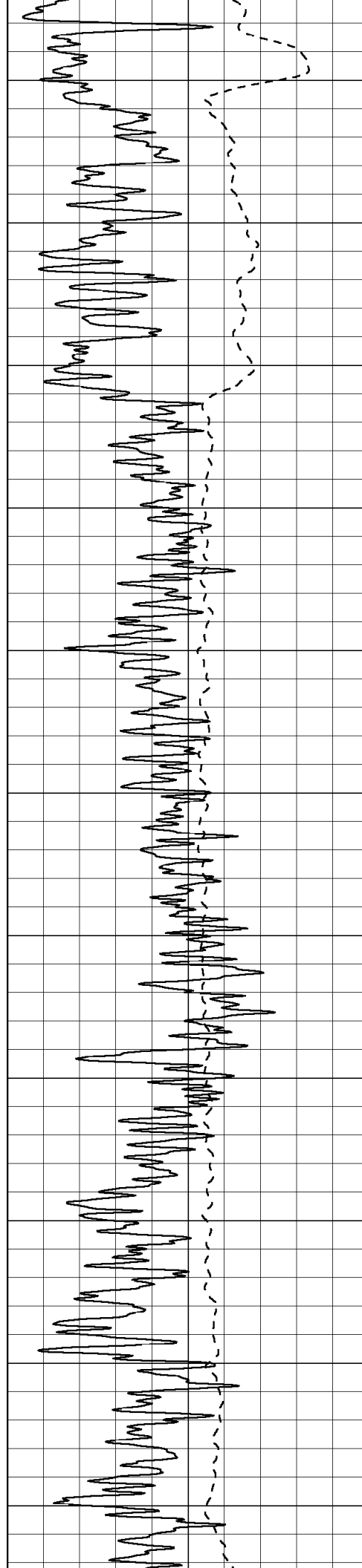
50	RILD X10 (Ohm-m)	500
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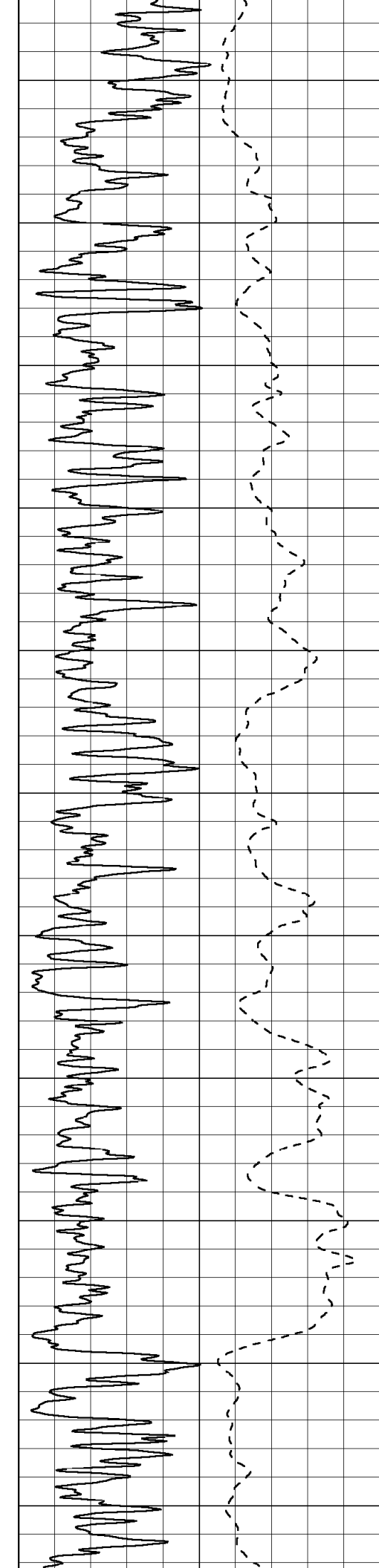
50	RLL3 X10 (Ohm-m)	500
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2100

2150

2200

2250

2300

2350

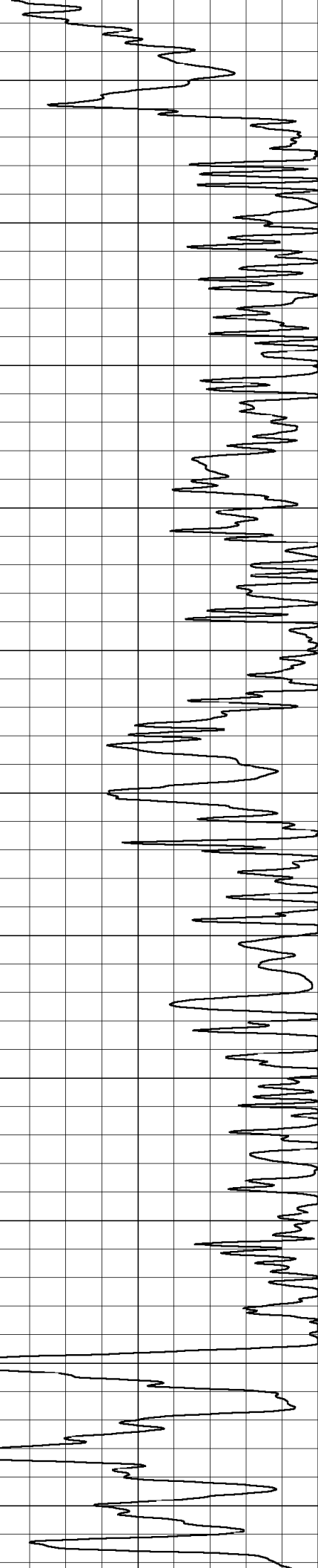
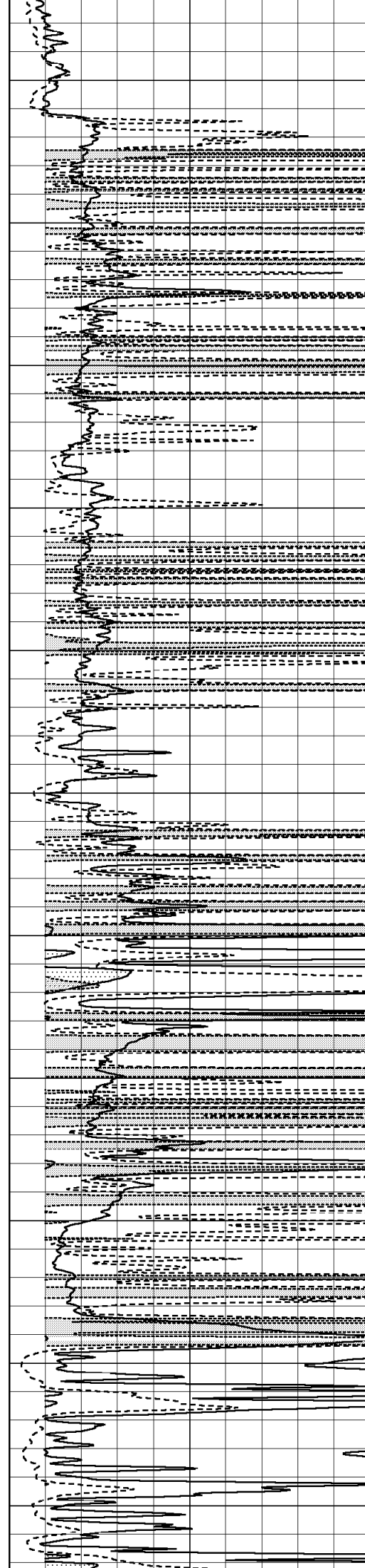
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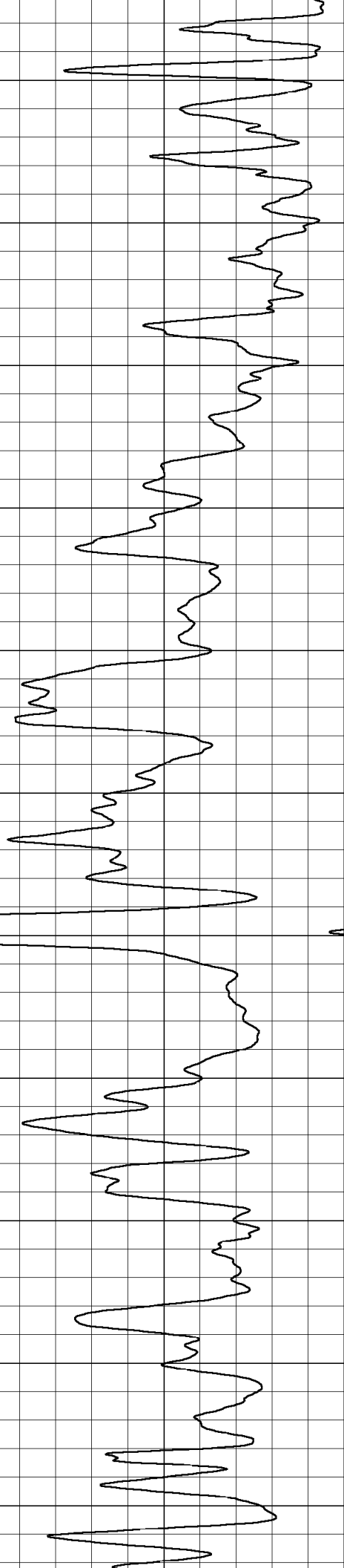
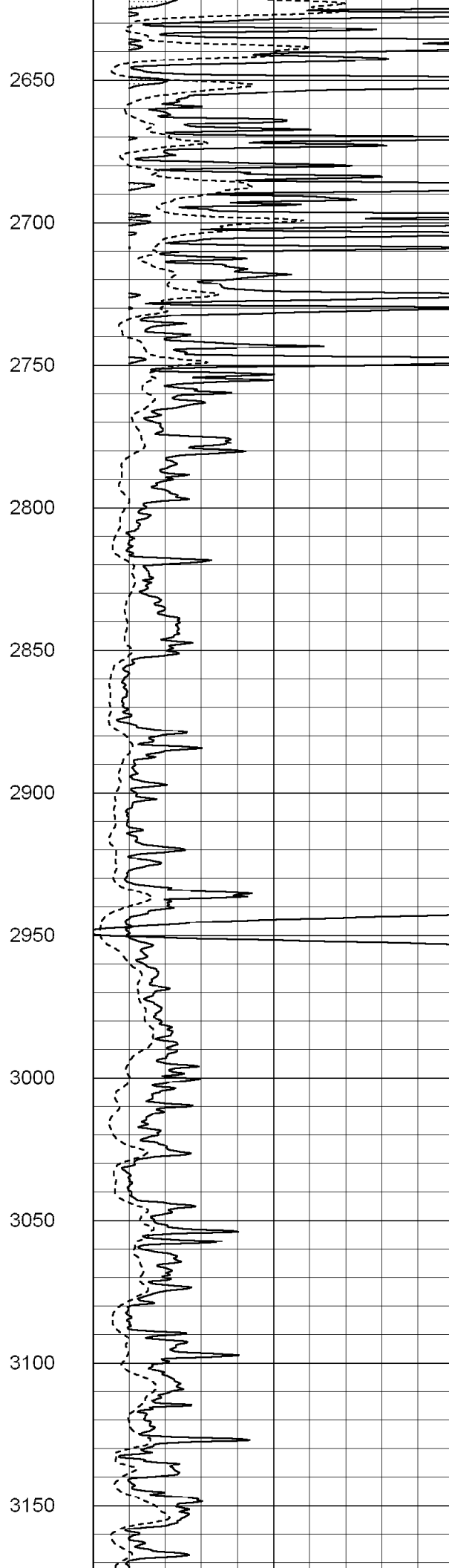
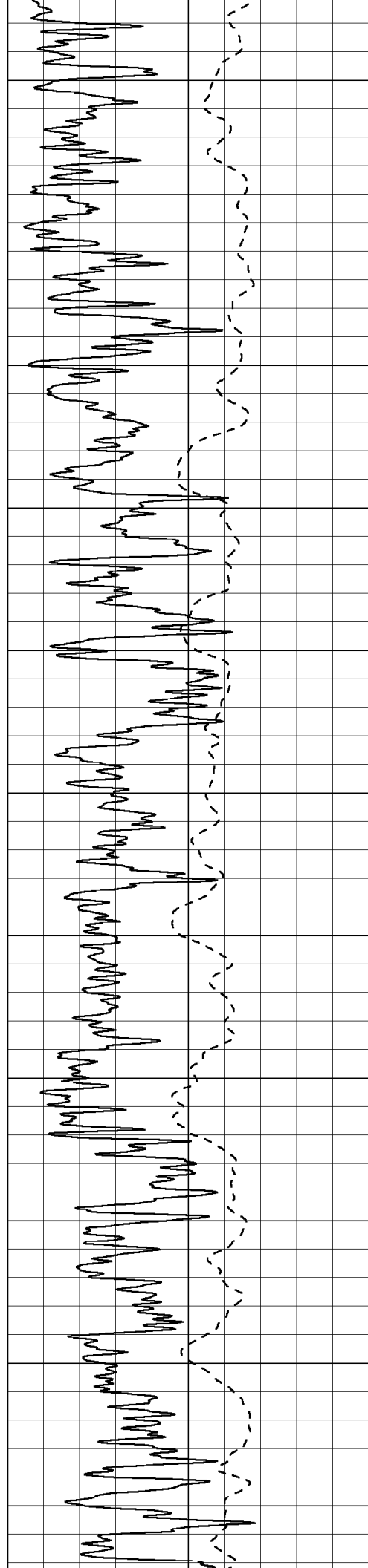
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2500

2550

2600





3200

3250

3300

3350

3400

3450

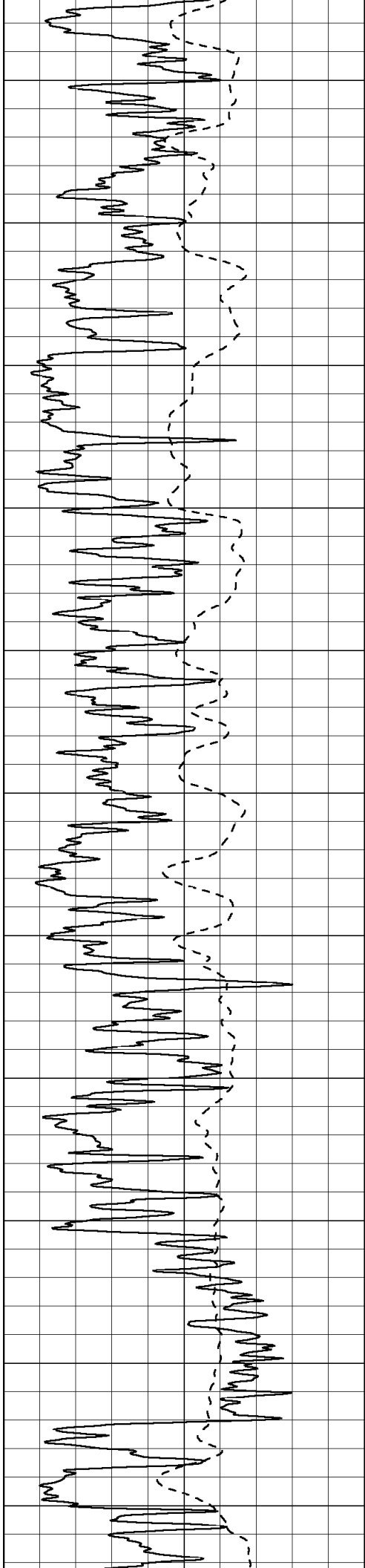
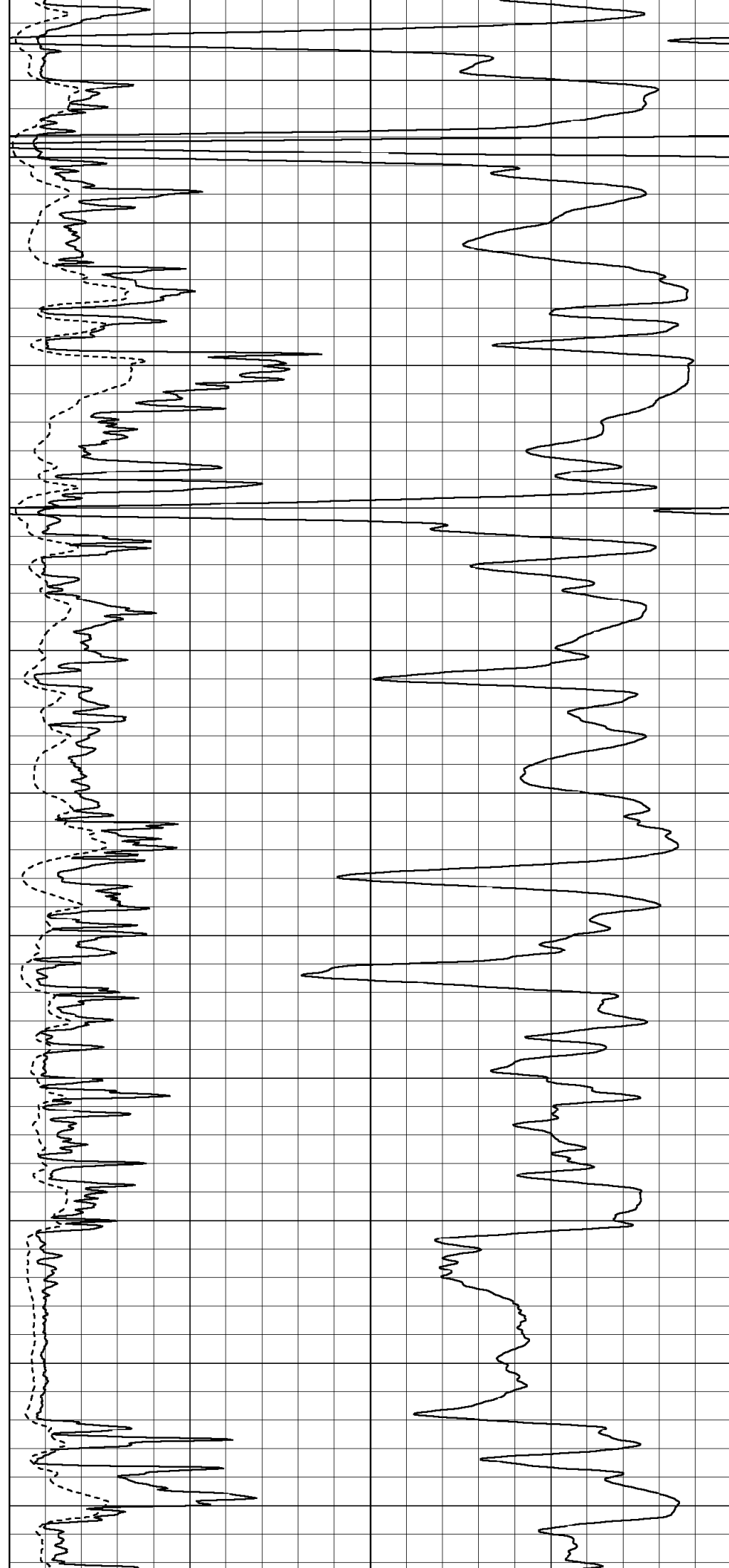
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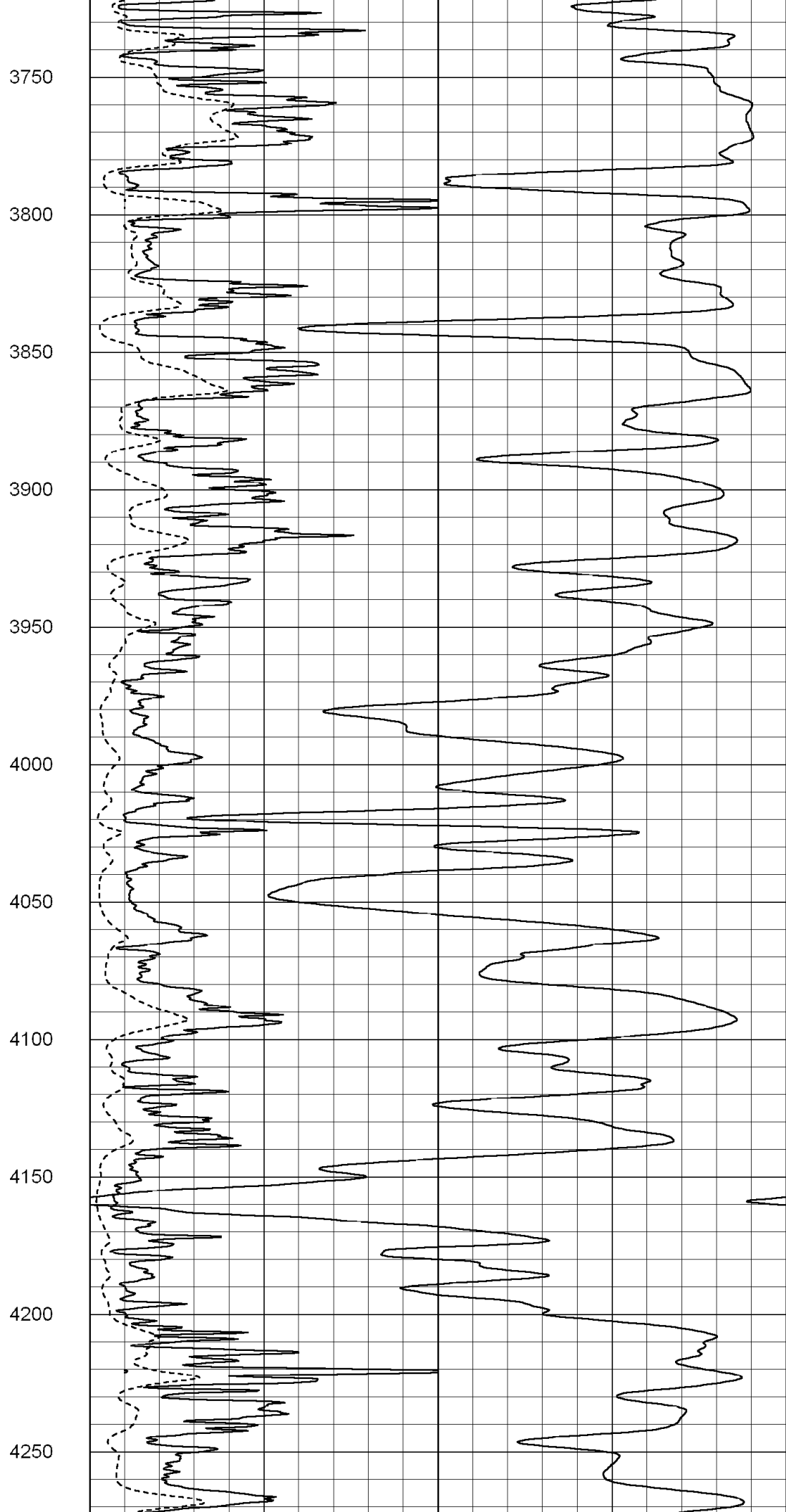
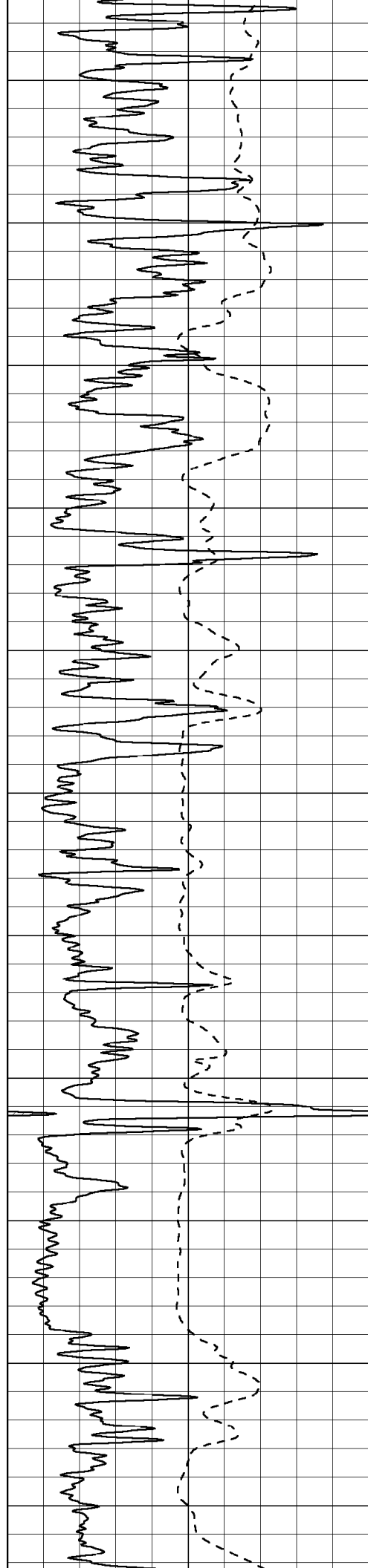
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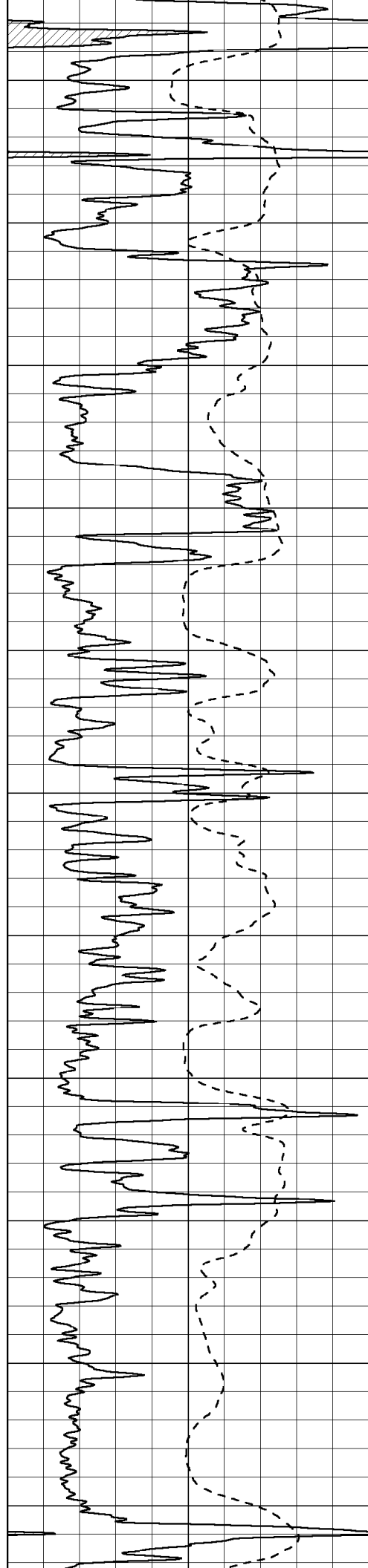
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3700







4300

4350

4400

4450

4500

4550

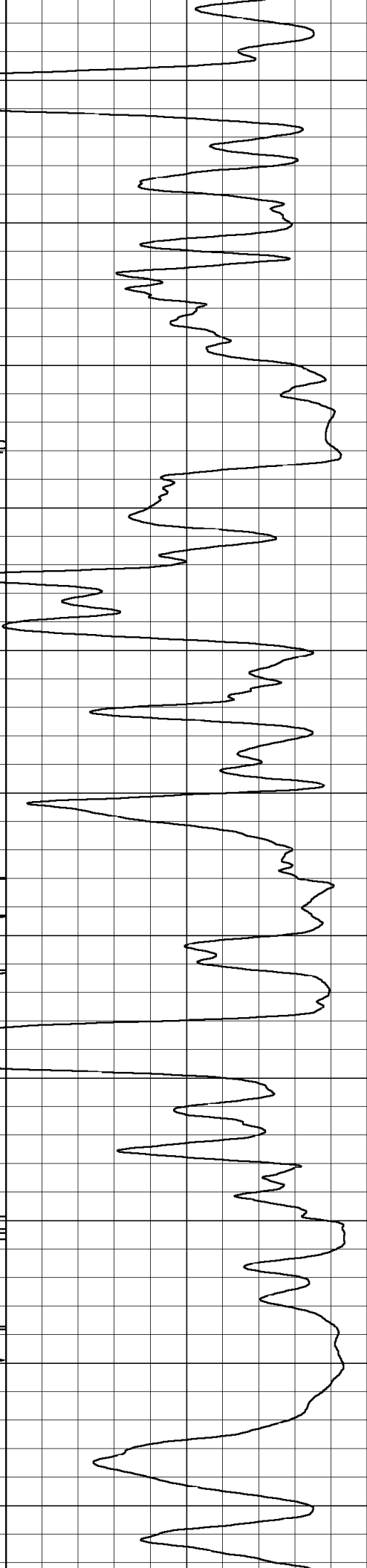
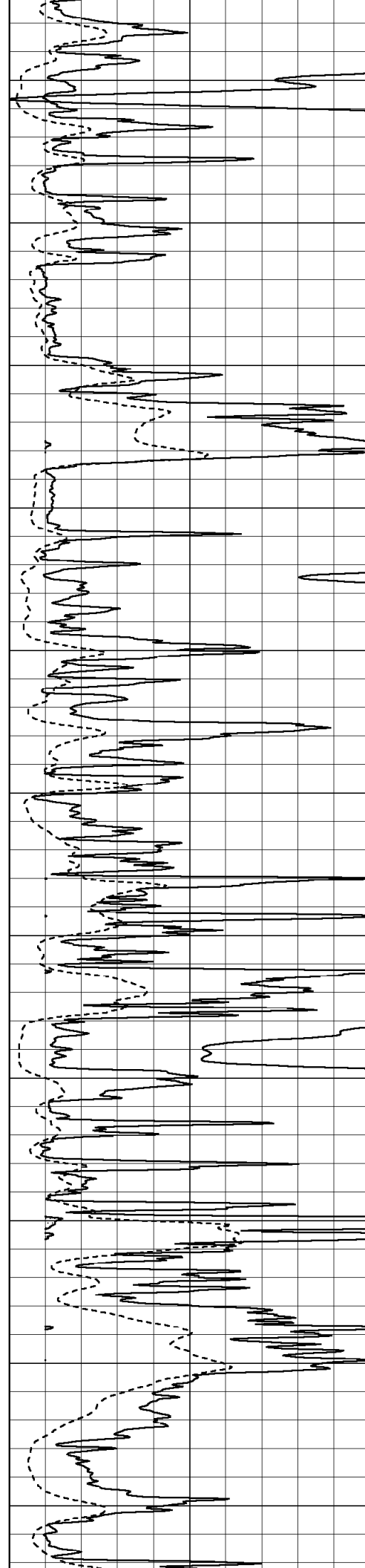
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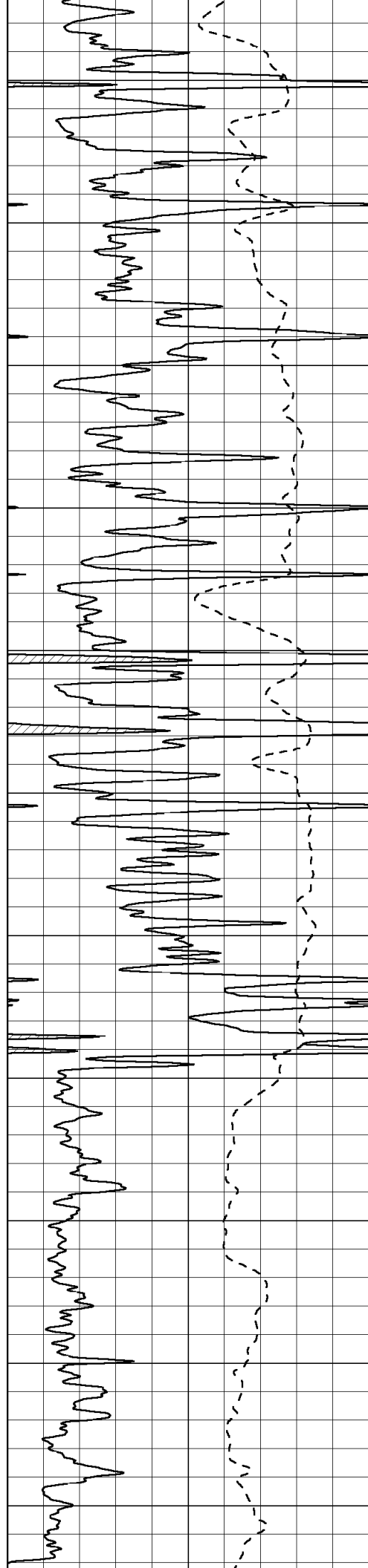
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4700

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4800





4850

4900

4950

5000

5050

5100

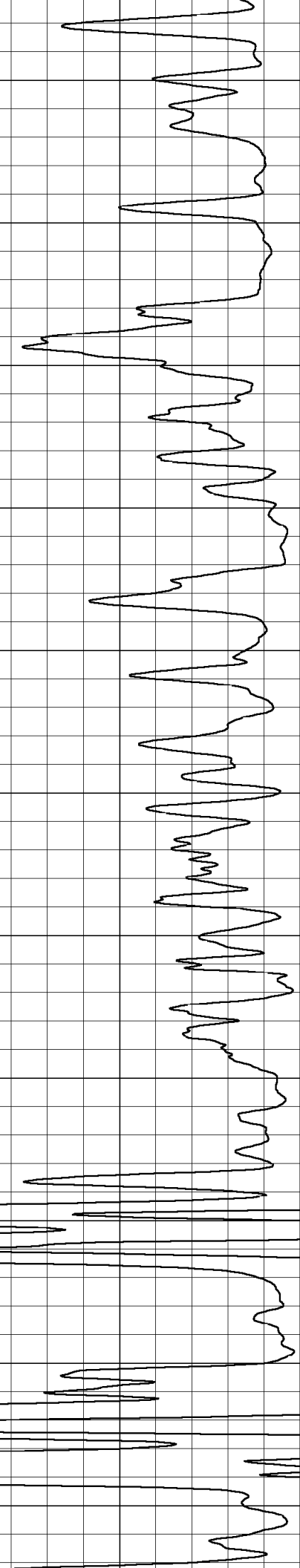
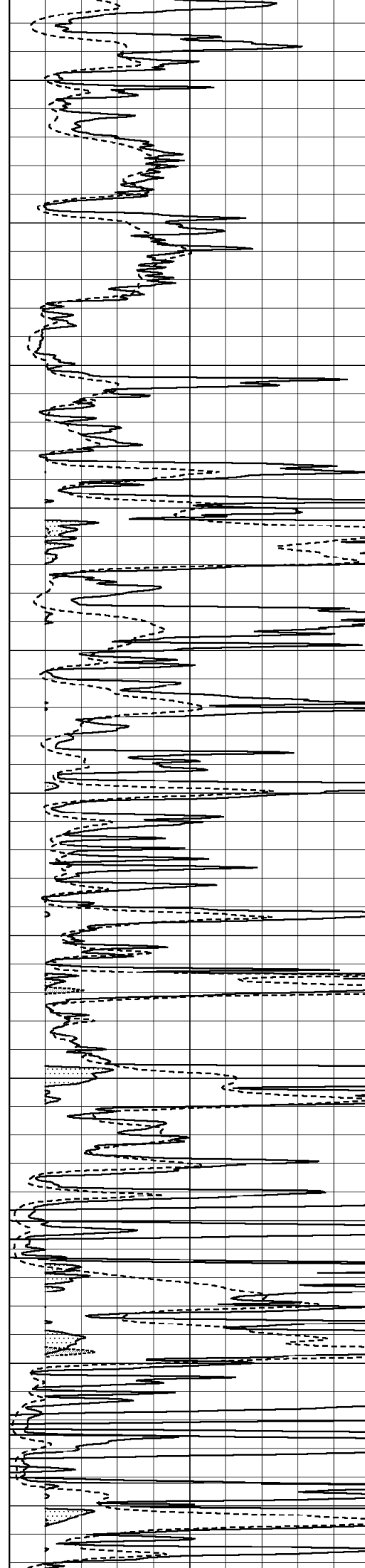
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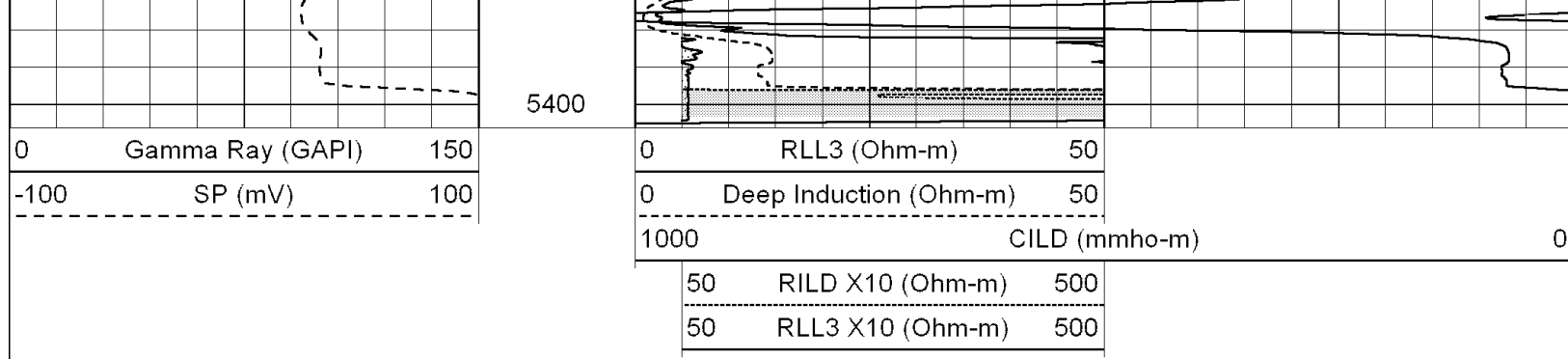
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5250

5300

5350



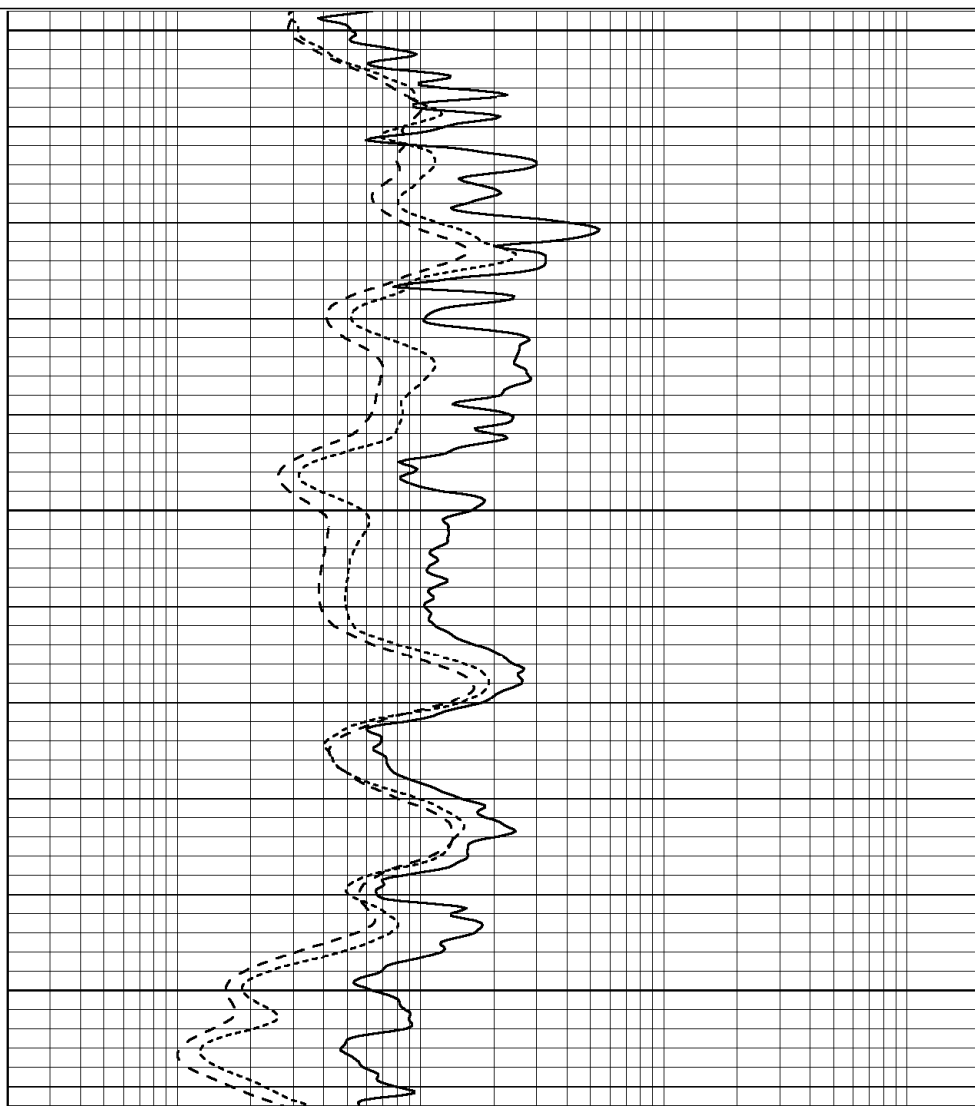
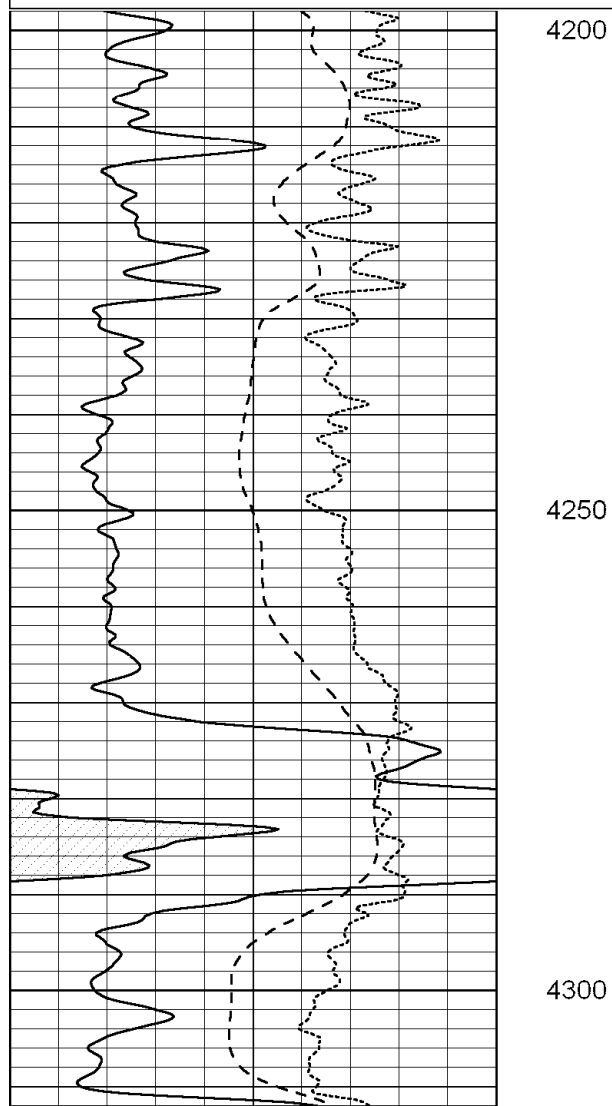


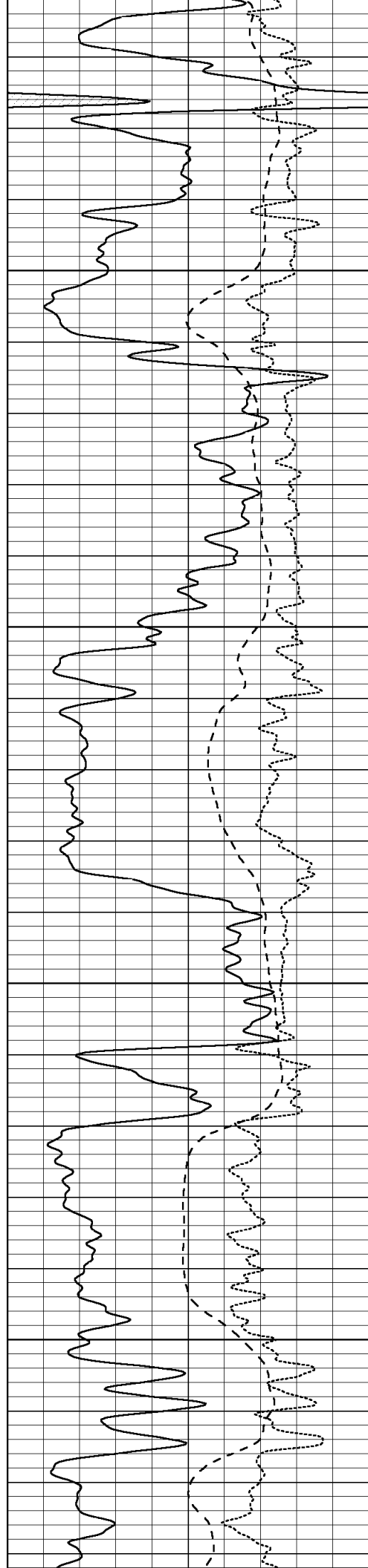
SUPERIOR
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MAIN SECTION

Database File: 004777pdn.db
 Dataset Pathname: pass4.1
 Presentation Format: dil
 Dataset Creation: Fri Jan 01 16:29:06 2010 by Calc Open-Cased 051020
 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	RxoRt	50	0.2	DEEP INDUCTION (Ohm-m)	2000



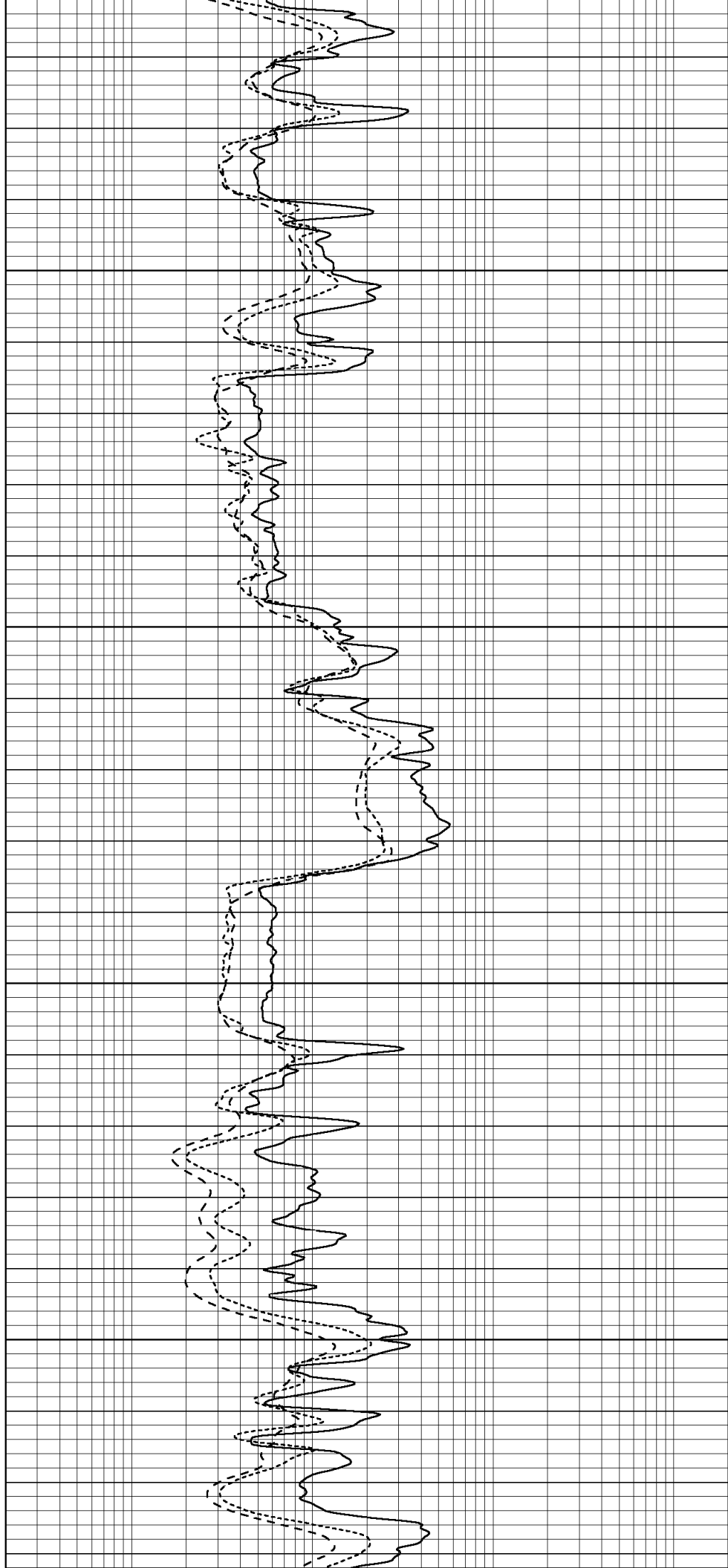


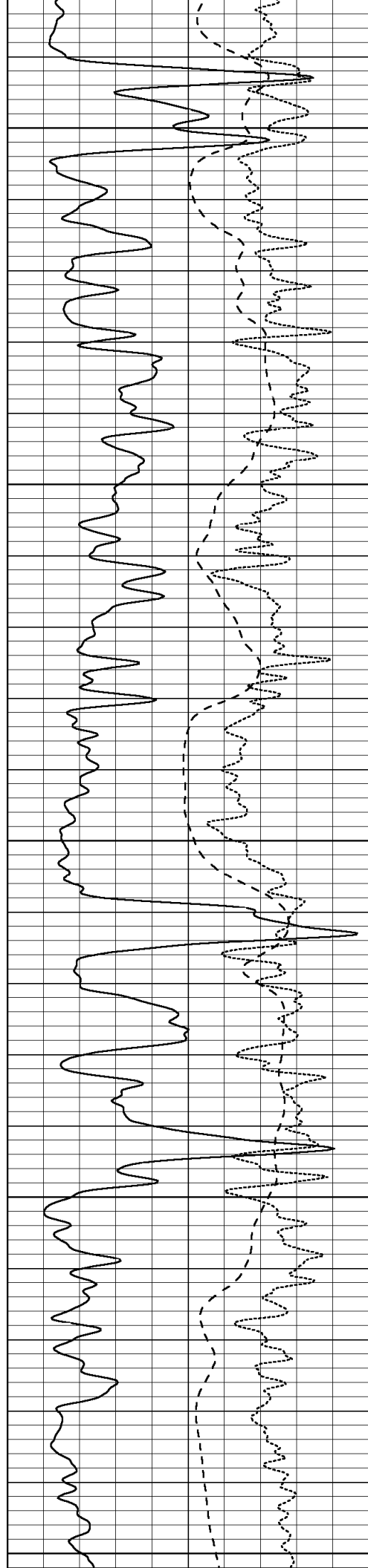
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4400

4450

4500





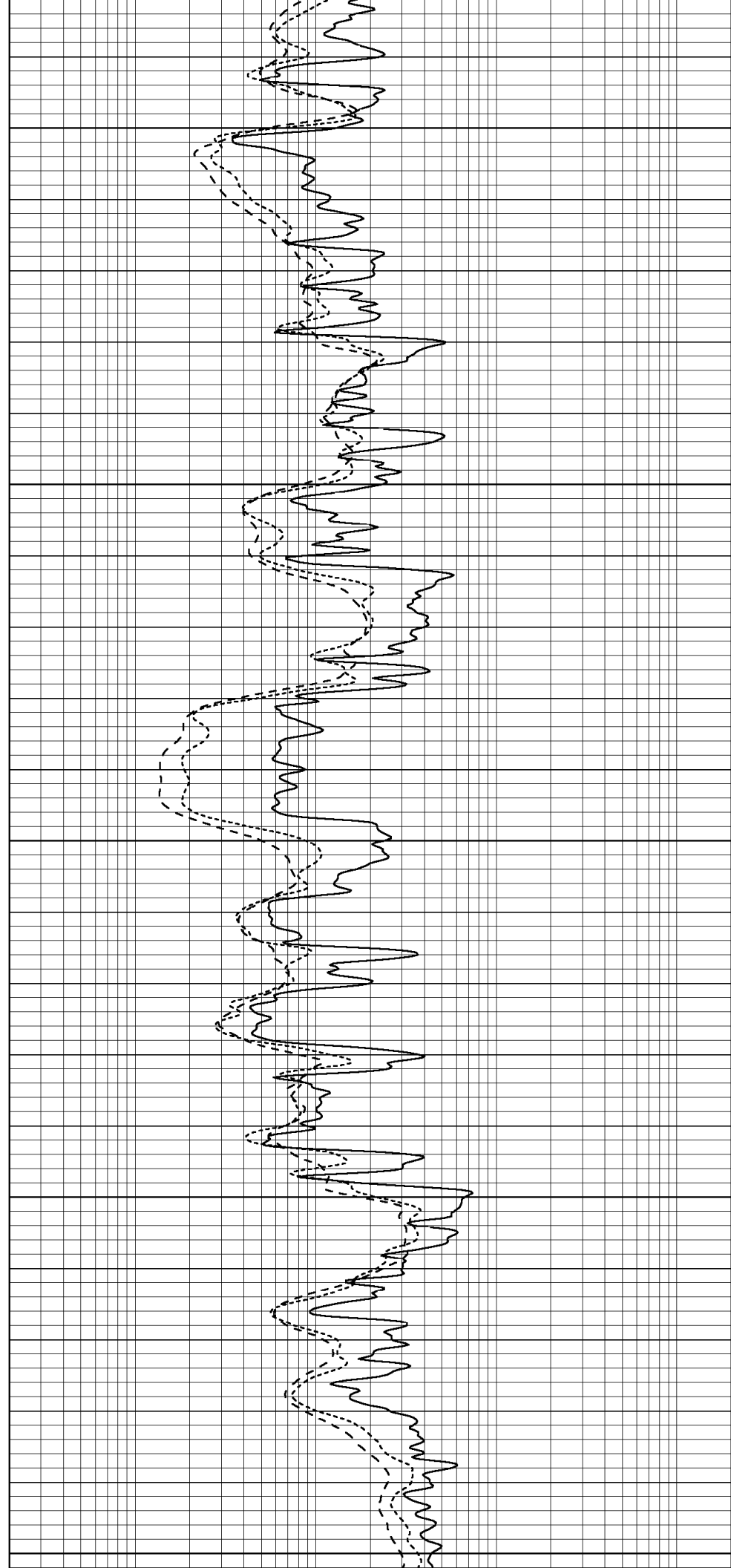
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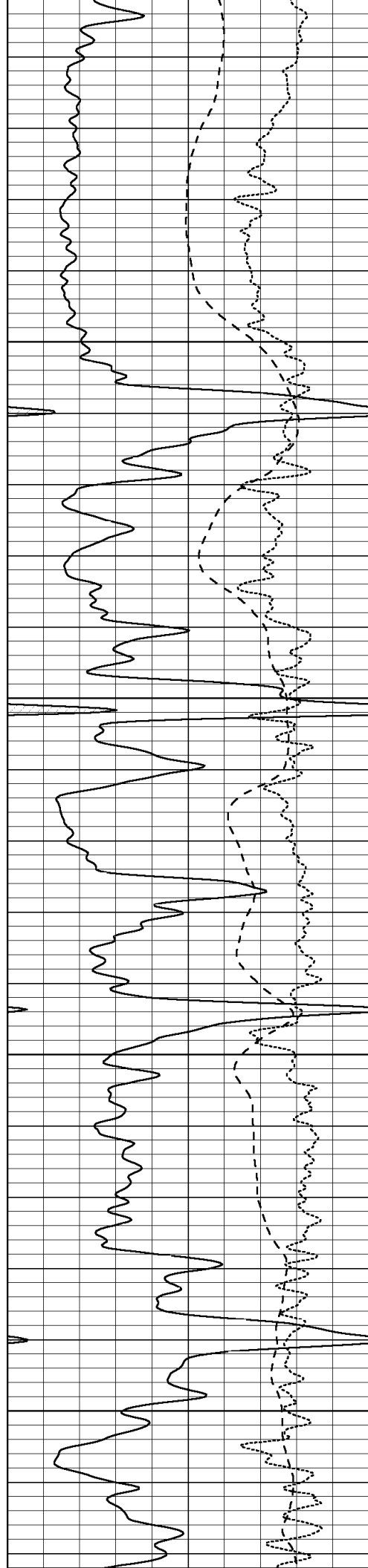
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4700

4750



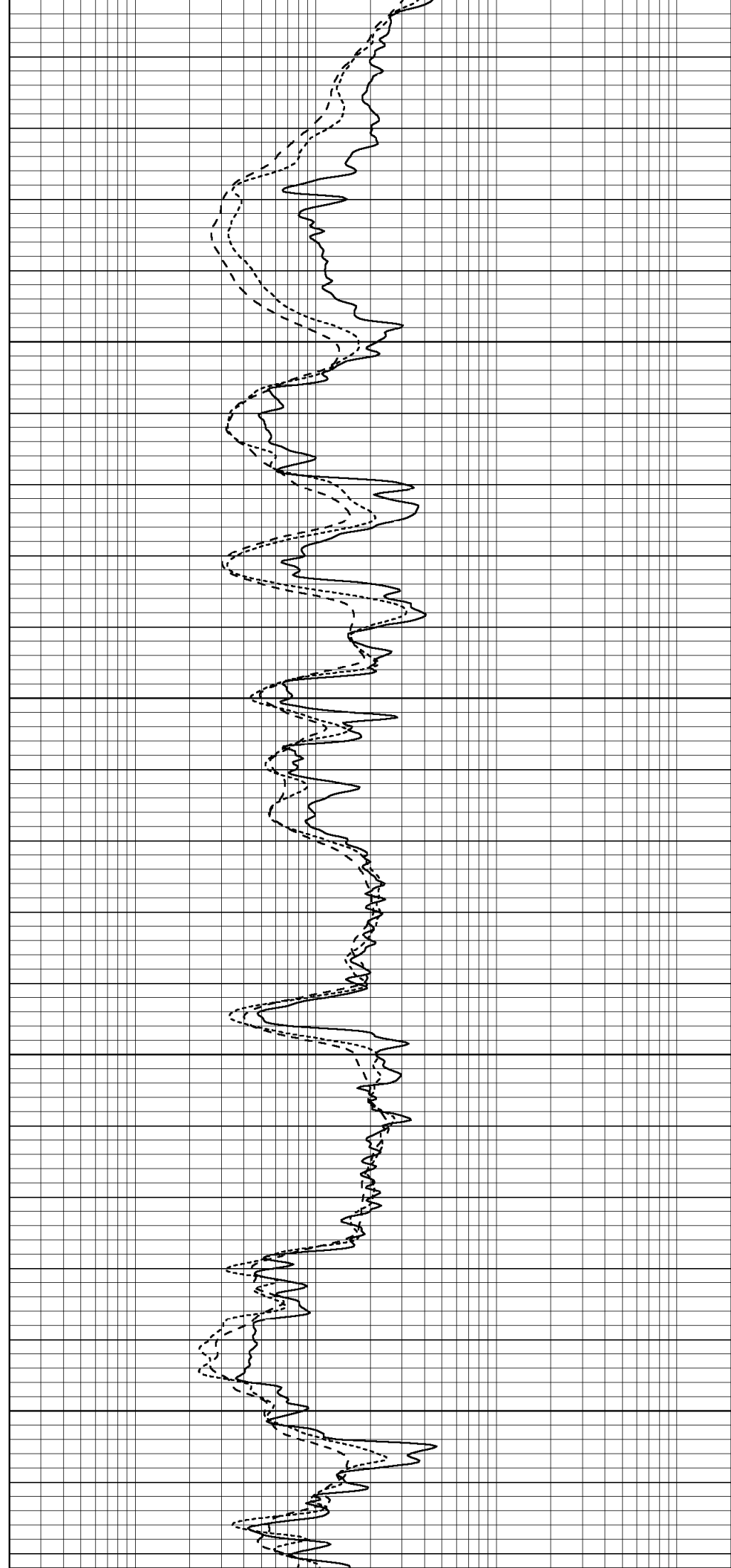


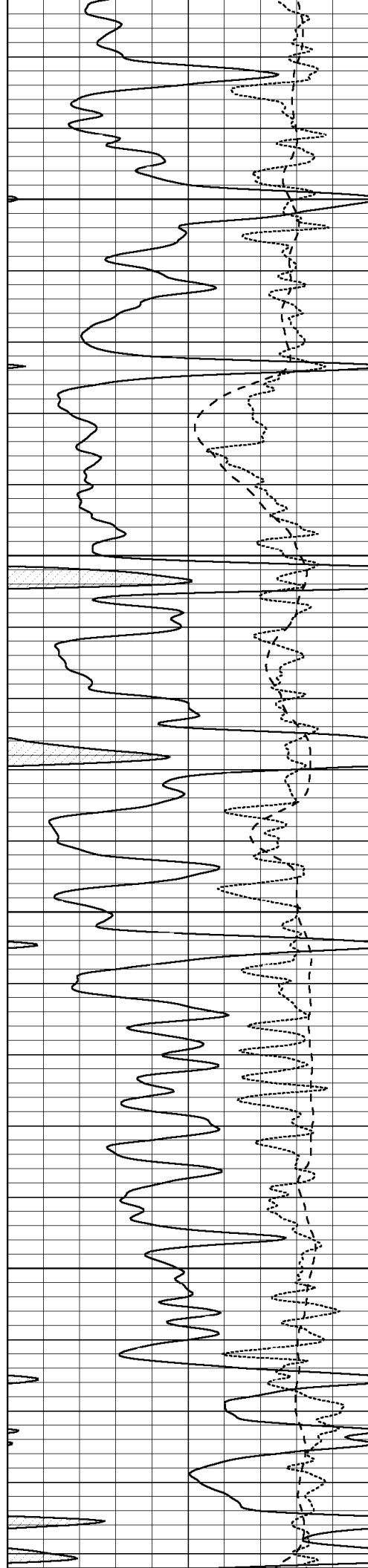
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4900

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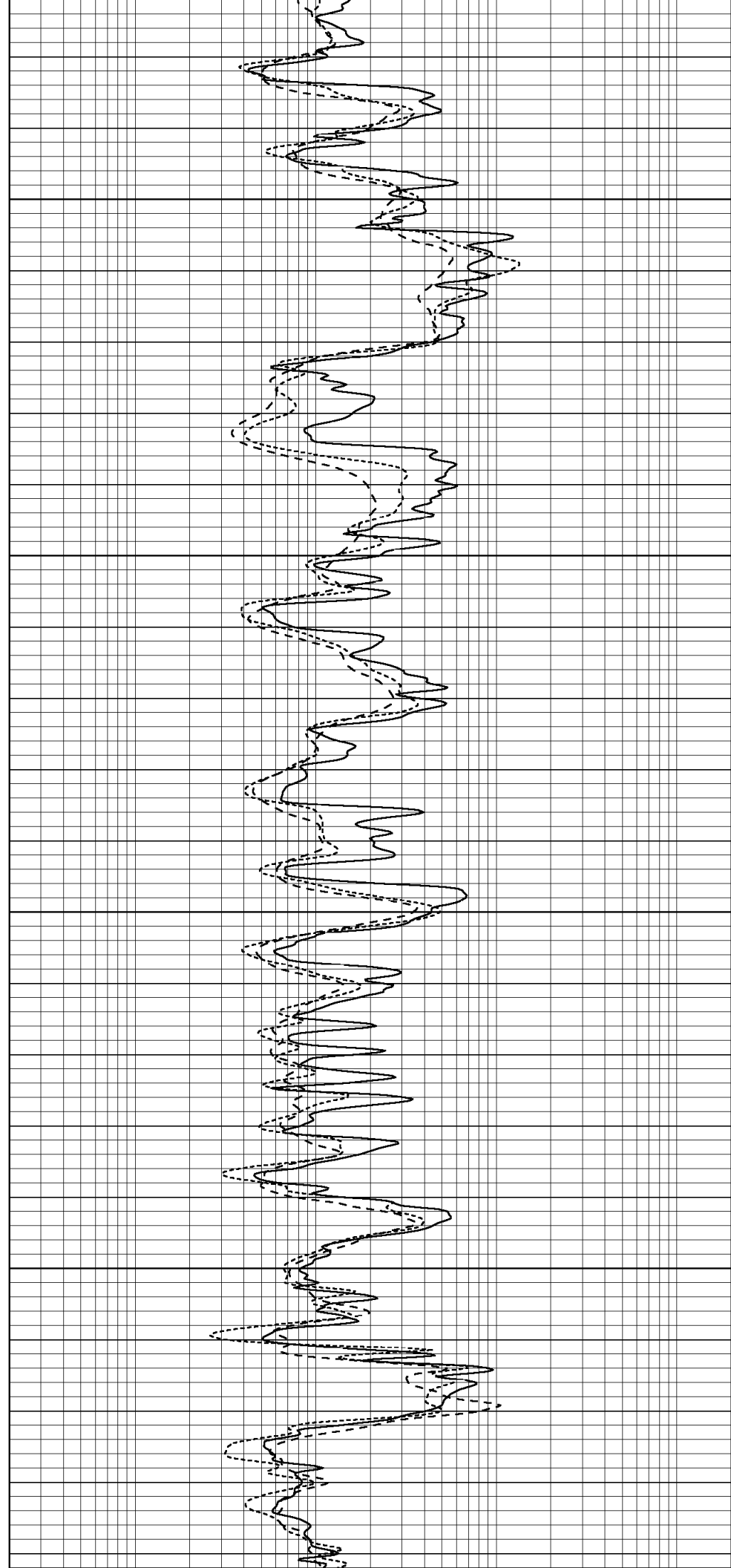


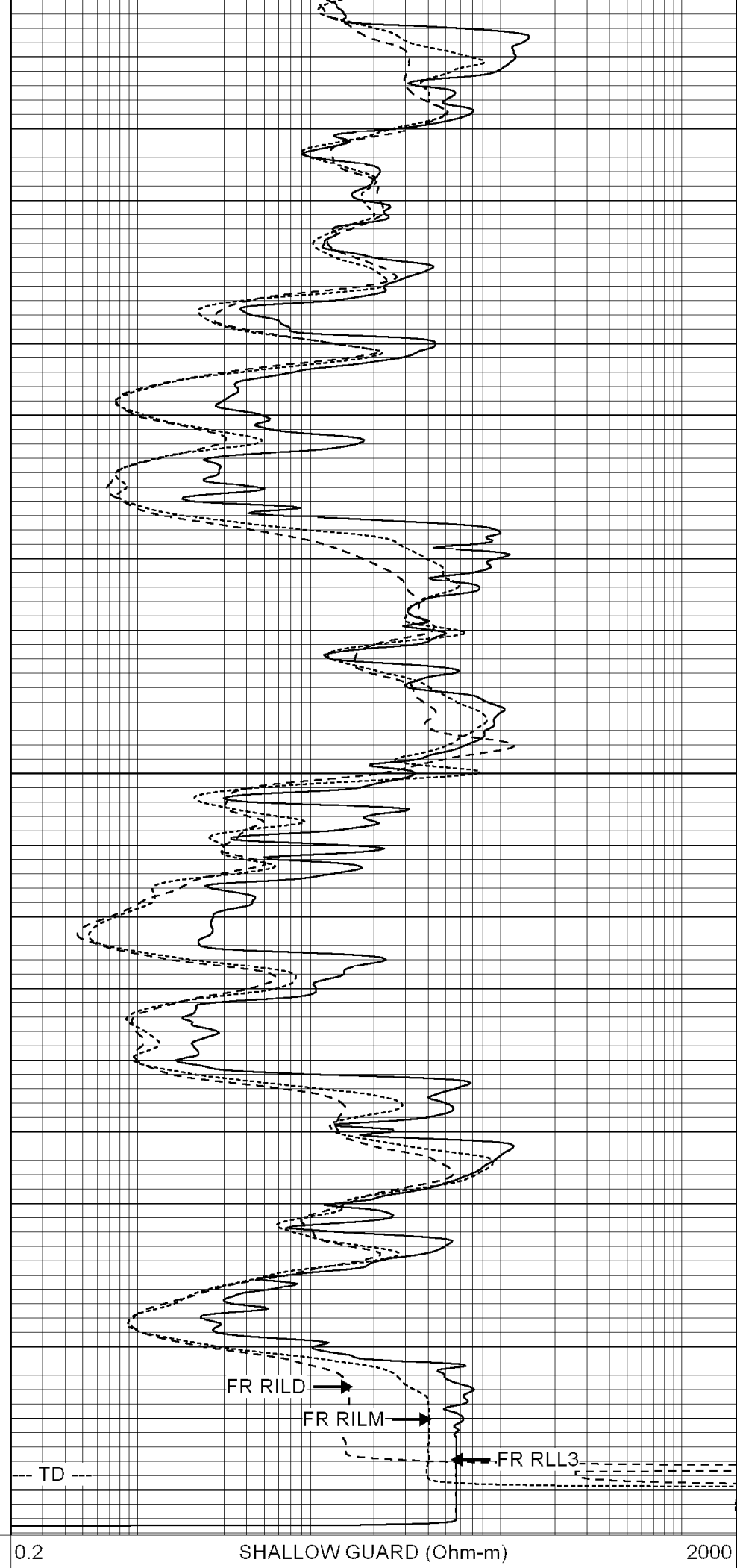
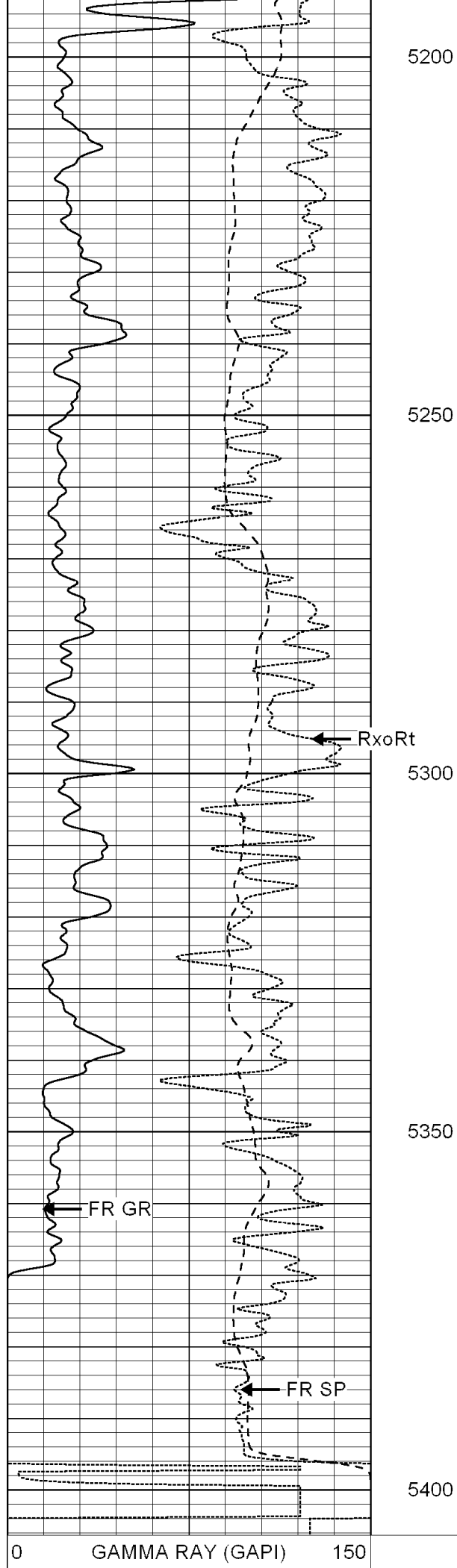
5000

5050

5100

5150





-100	SP (mV)	100
-250	RxoRt	50

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



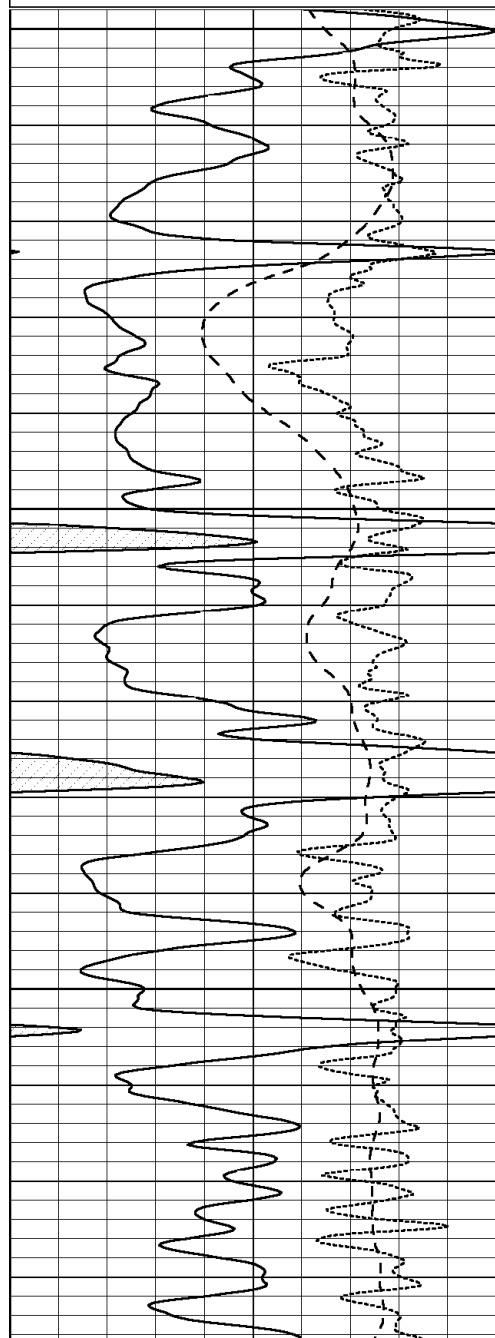
SUPERIOR
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Kansas

REPEAT SECTION

Database File: 004777pdn.db
Dataset Pathname: pass2.1A
Presentation Format: dil
Dataset Creation: Fri Jan 01 14:54:10 2010 by Calc Open-Cased 051020
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50

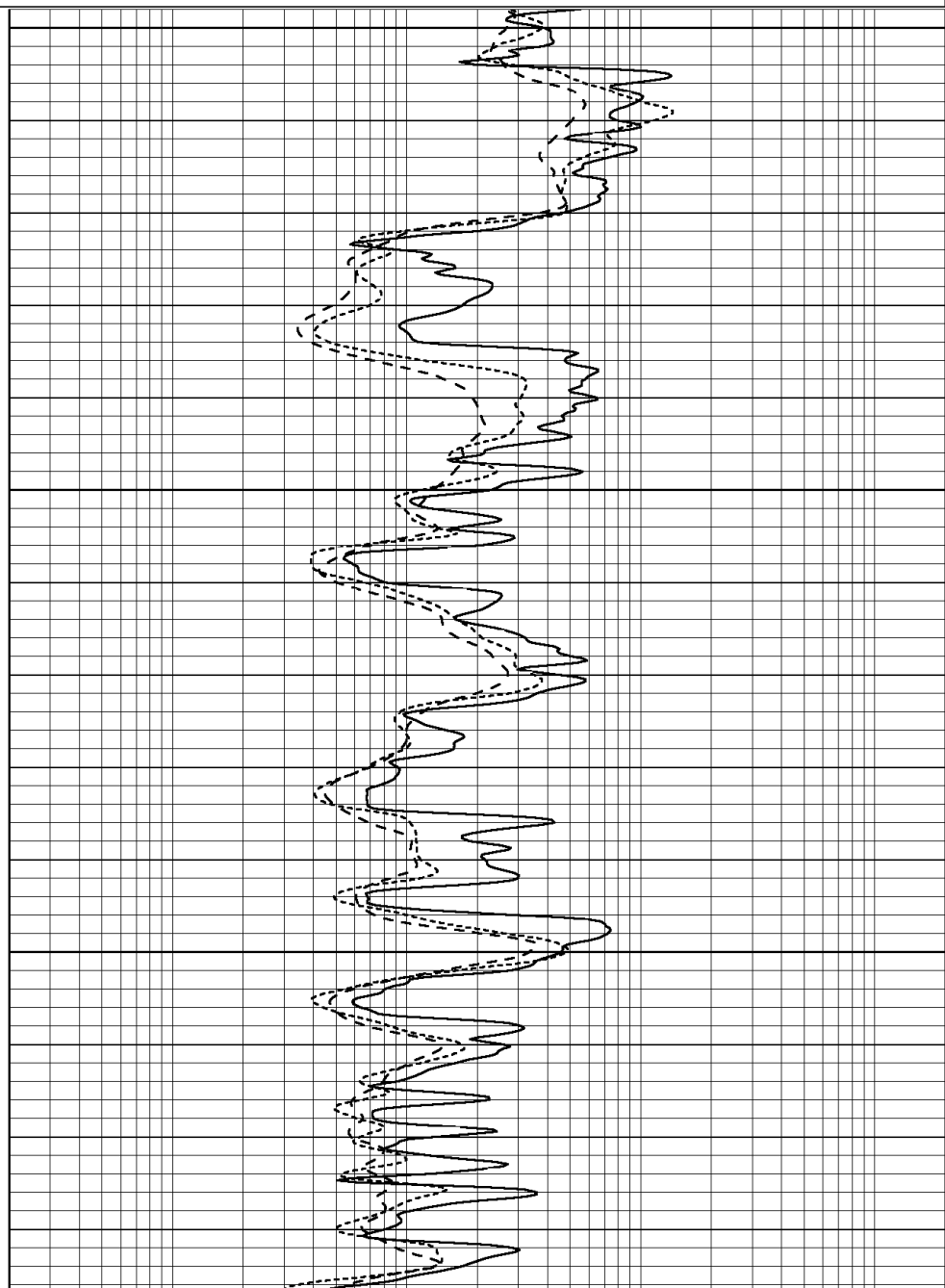
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

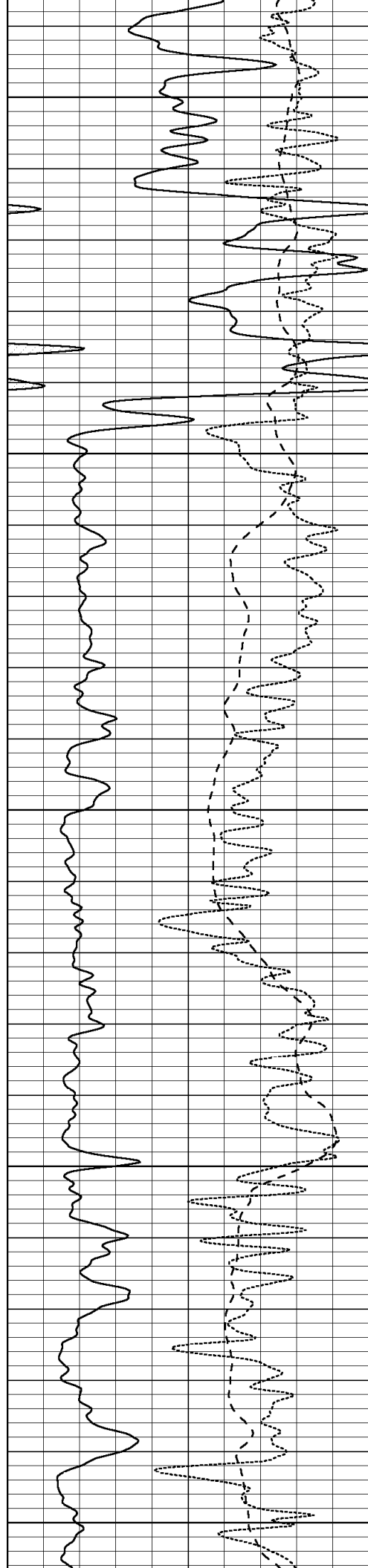


5000

5050

5100





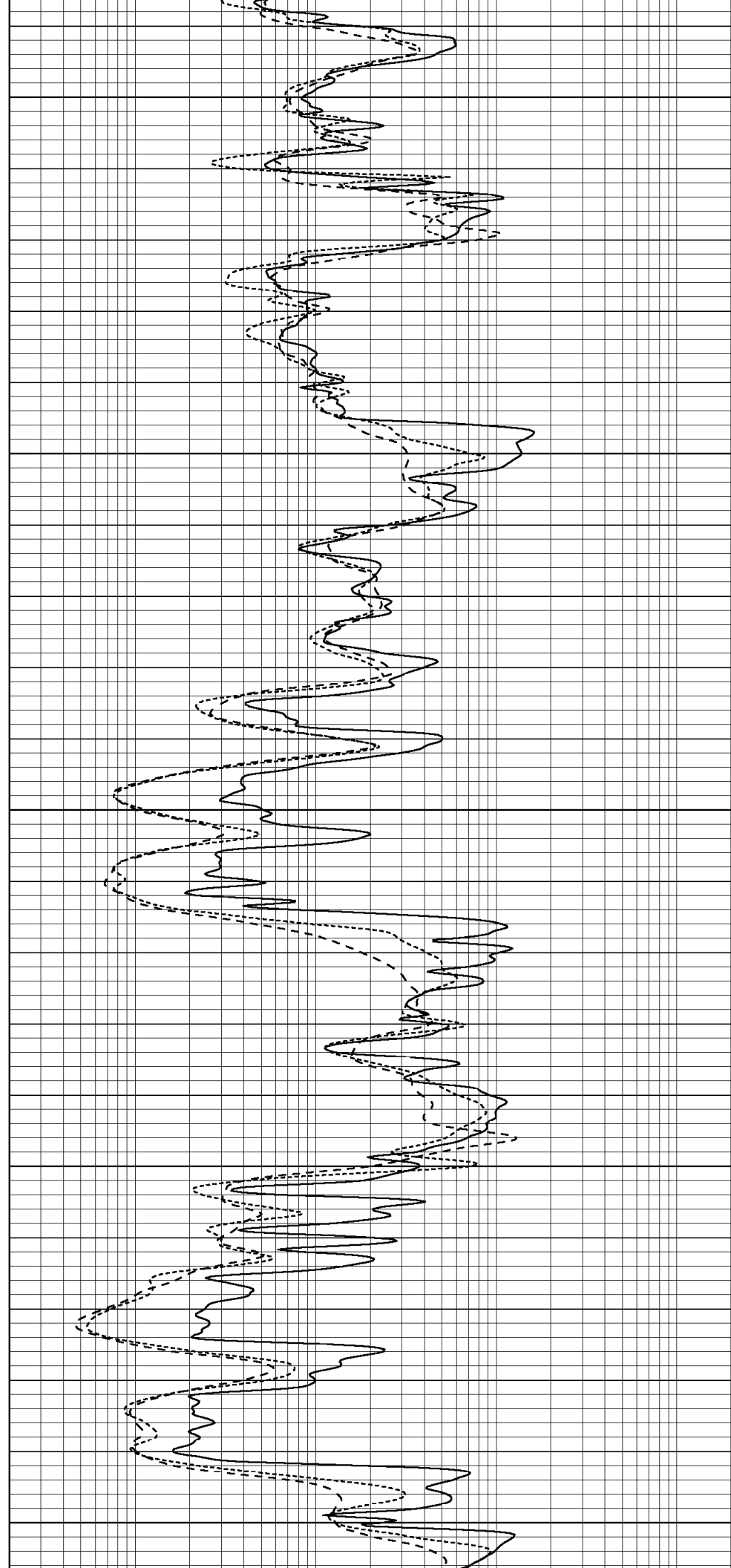
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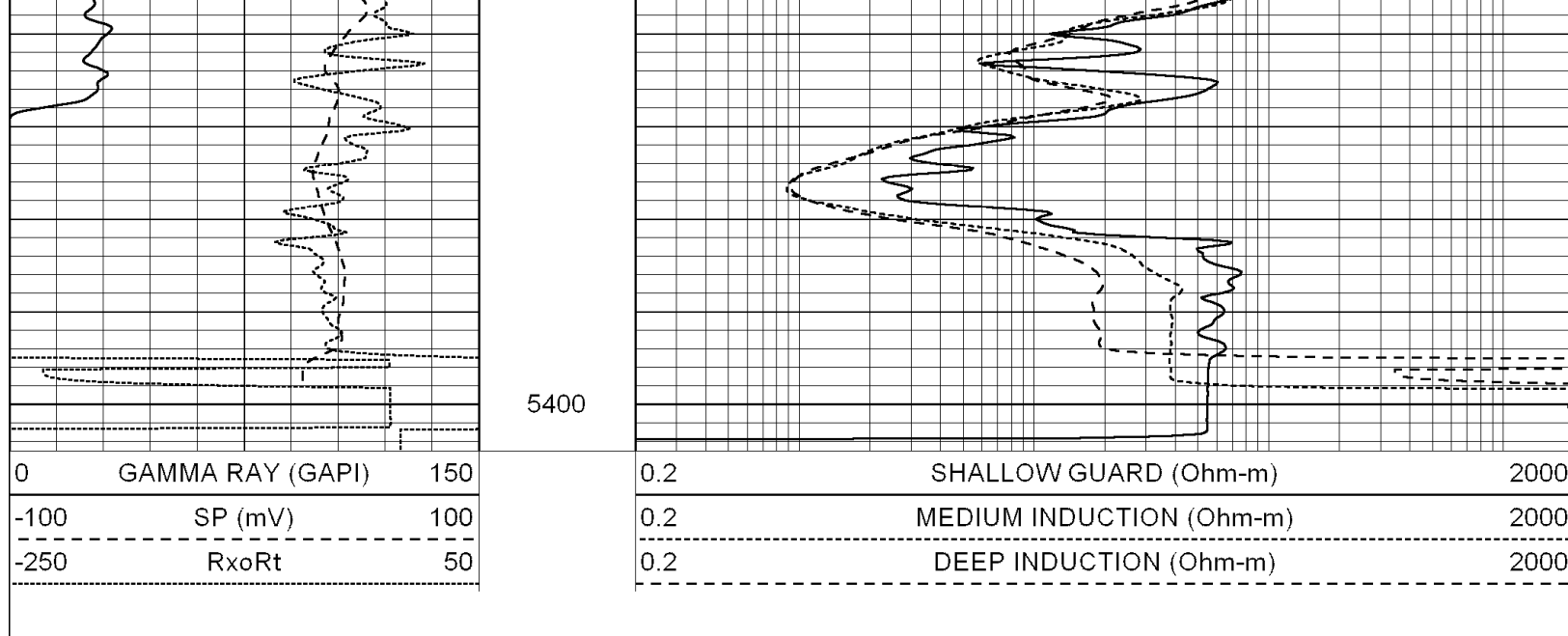
5200

5250

5300

5350





Calibration Report

Database File: 004777pdn.db
Dataset Pathname: pass4.1
Dataset Creation: Fri Jan 01 16:29:06 2010 by Calc Open-Cased 051020

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
Performed: Fri Jan 01 14:55:02 2010

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	560.000	-6.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	540.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho-m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho-m	627.607	-6.064

Litho Density Calibration Report
Serial: 002N Model: PRB
Performed Thu Feb 19 10:03:03 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1015.4	8821.2	2774.6	10126.2	cps
Window 2	929.8	7357.8	2382.1	8264.8	cps
Window 3	660.0	2826.8	1135.5	3062.6	cps
Window 4	221.6	228.4	222.9	223.8	cps
Long Space	0.0	6428.0	1452.3	7335.1	cps
Short Space	0.9	1364.8	919.9	1495.3	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.1	Rib Slope	: 1.005	Density/Spine Ratio	: 0.576
Spine Angle	: 75.1	Spine Slope	: 3.771	Spine Intercept	: -18.5

Caliper

Readings	Reference
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Low Ref	2.9	8.5				
High Ref	5.3	14.0				
		Gain: 2.3	Offset: 1.9			
Compensated Neutron Calibration Report						
		Serial Number:	NEU_11			
		Tool Model:	G			
CALIBRATION						
Detector		Readings		Target		Normalization
Short Space		1.00	cps	1.00	cps	1.0000
Long Space		1.00	cps	1.00	cps	1.0000
Gamma Ray Calibration Report						
Serial Number:		GR5				
Tool Model:		OPEN				
Performed:		Thu Dec 17 10:25:53 2009				
Calibrator Value:		1.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		1.0	cps			
Sensitivity:		0.5800	GAPI/cps			