



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	TRANS PACIFIC OIL CORPORATION		
Well	SPEER "A" #2-28		
Field	WILDCAT		
County	LANE	State	KANSAS
Location:	API # : 15-101-22447-00-00		Other Services CNL/CDL MEL
SEC 28 TWP 19S RGE 28W			
Permanent Datum	GROUND LEVEL	Elevation	2781
Log Measured From	KELLY BUSHING 9' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Elevation			
K.B.	2790		
D.F.	2788		
G.L.	2781		
Date	7-17-13		
Run Number	ONE		
Depth Driller	4707		
Depth Logger	4707		
Bottom Logged Interval	4705		
Top Log Interval	00		
Casing Driller	223		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2.100	
Density / Viscosity	9.4 / 52		
pH / Fluid Loss	11.0 / 6.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.1 @ 87F		
Rmf @ Meas. Temp	0.83 @ 87F		
Rmc @ Meas. Temp	1.32 @ 87F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.78 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	IAN MABB		
Witnessed By	MAX LOVELY		

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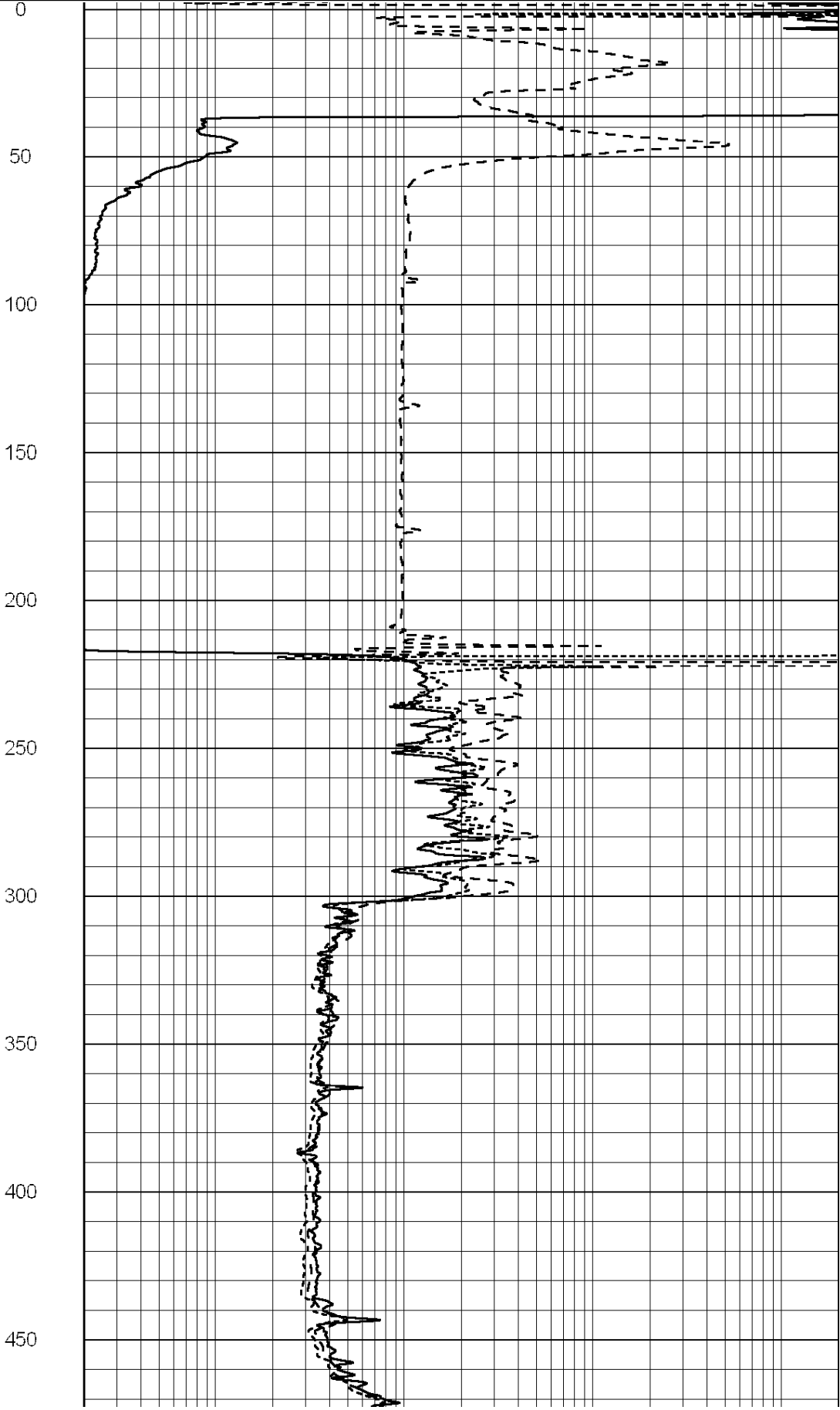
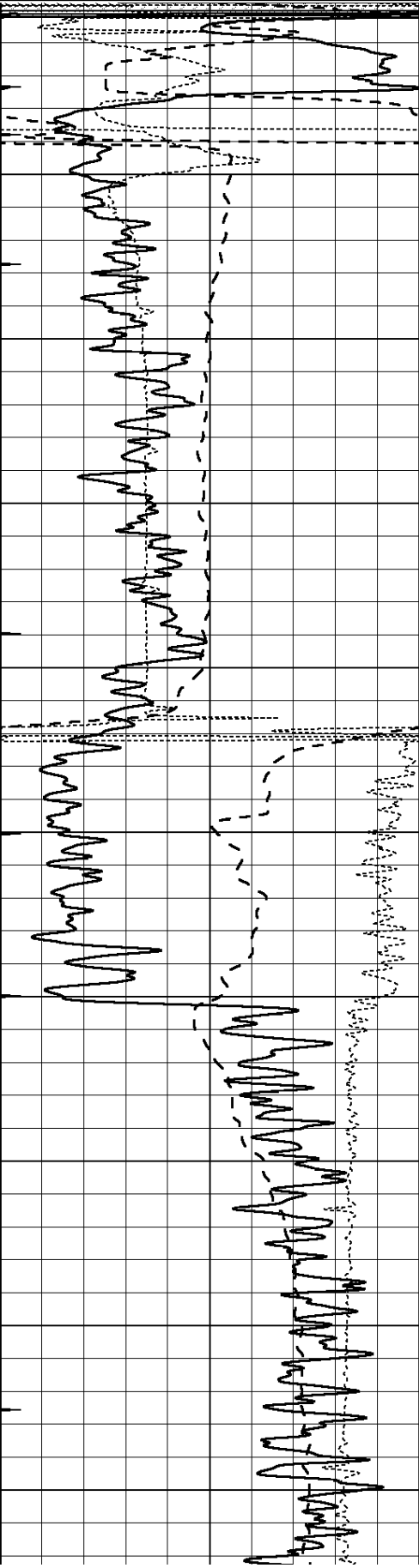
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

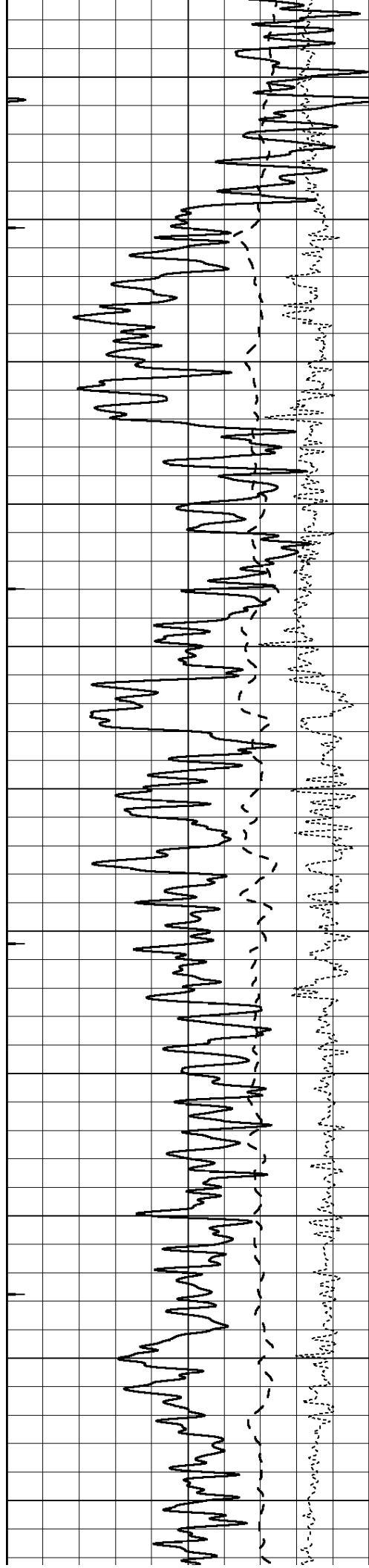
Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: DIGHTON, KS. - (4 WAY STOP) 6S ON HWY 23 - 2E ON RD. 90 - 1 1/2 SOUTH BETWEEN
TANK BATTERIES

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





500

550

600

650

700

750

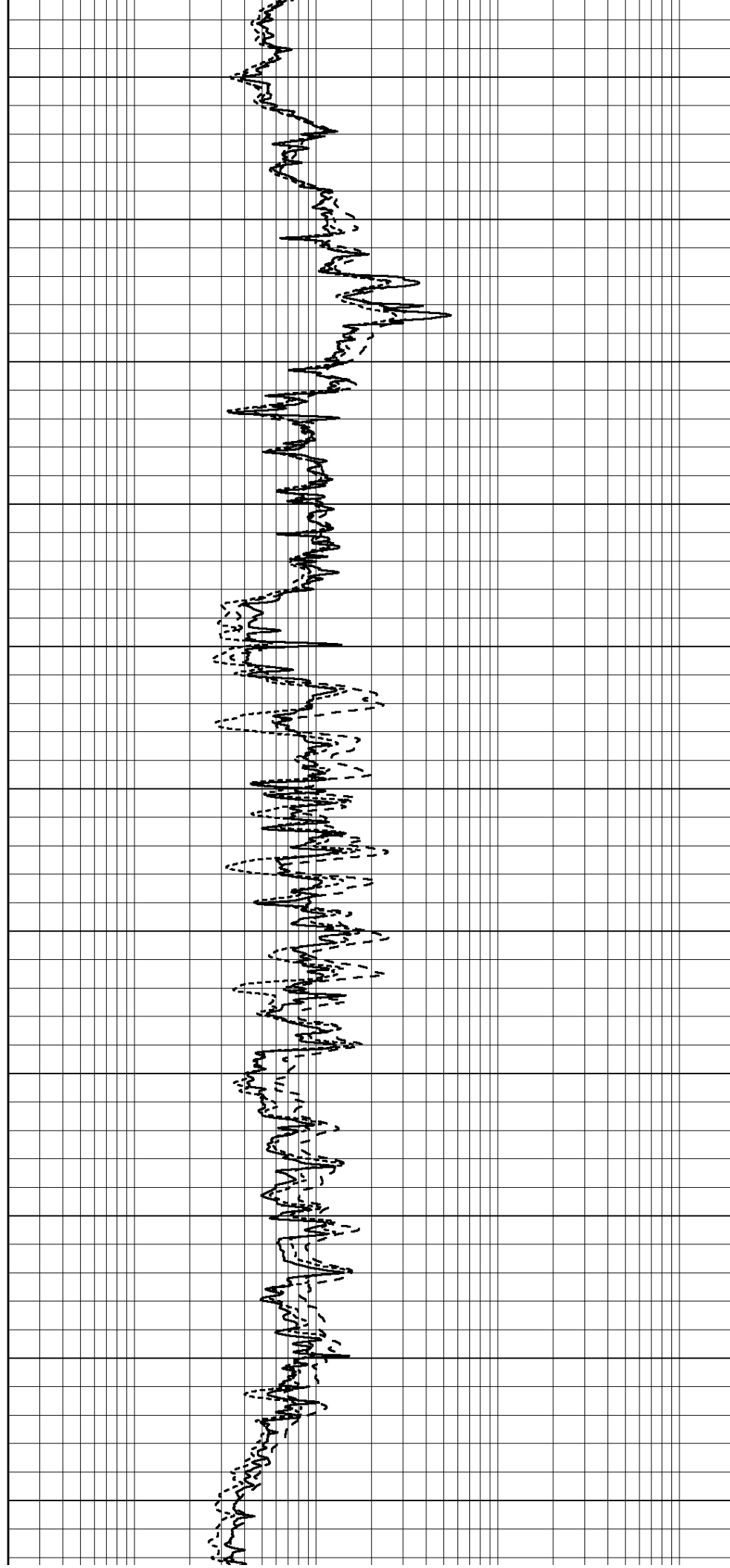
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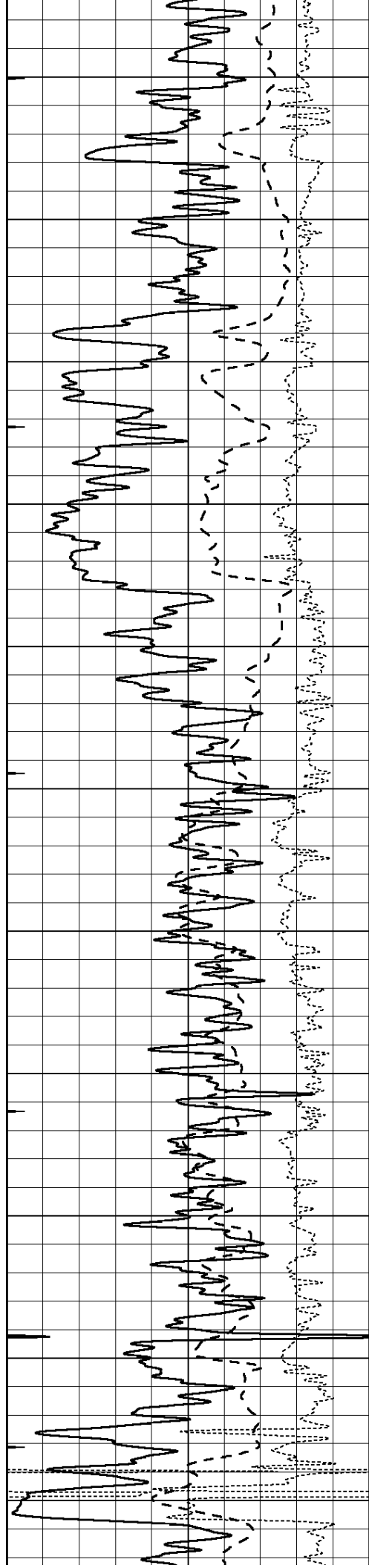
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900

950

1000





1050

1100

1150

1200

1250

1300

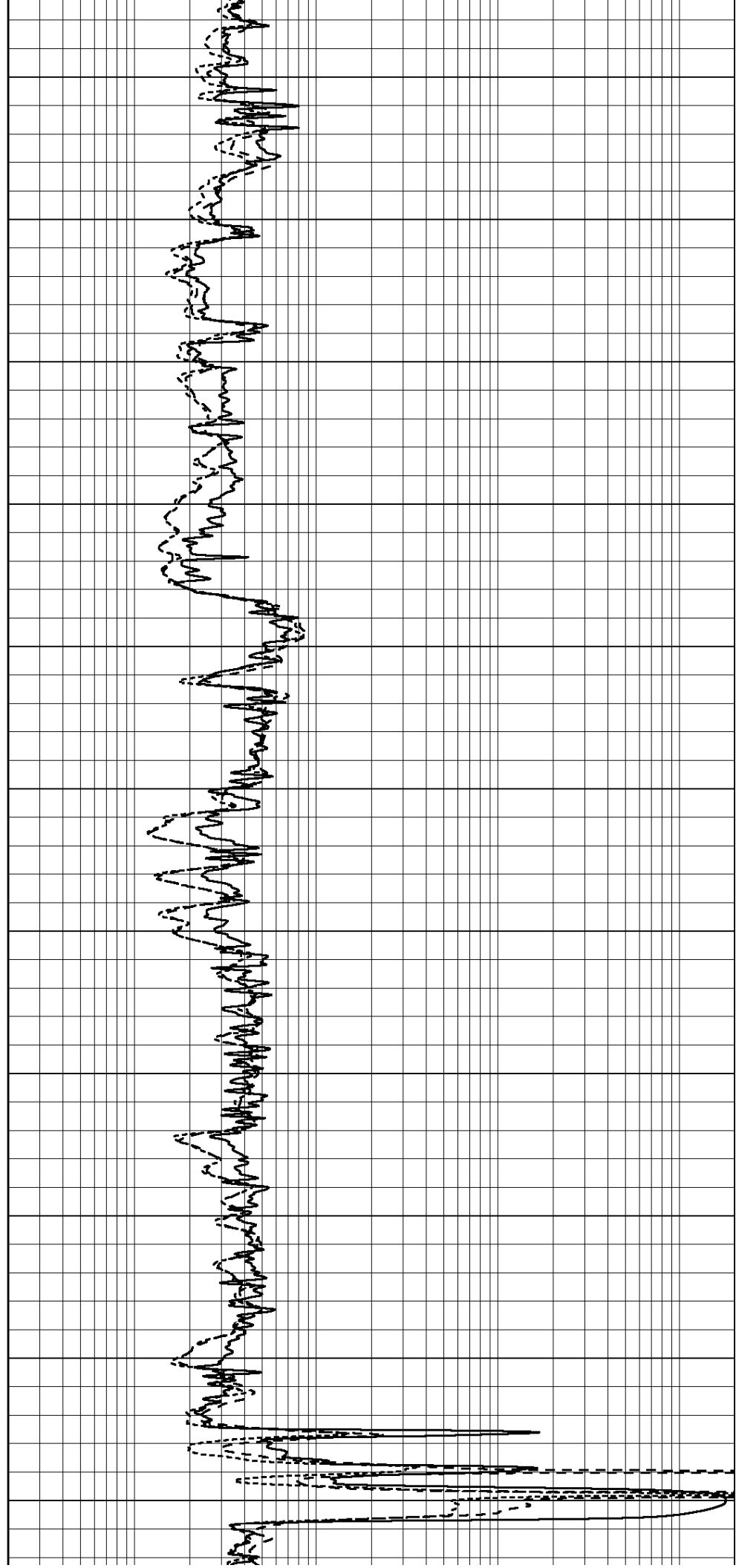
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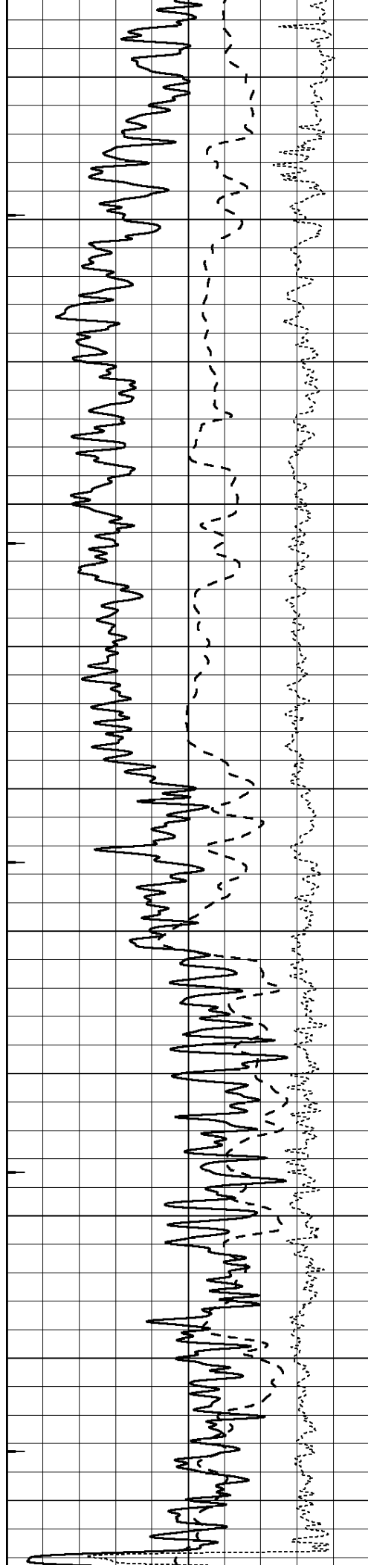
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1450

1500

1550





1600

1650

1700

1750

1800

1850

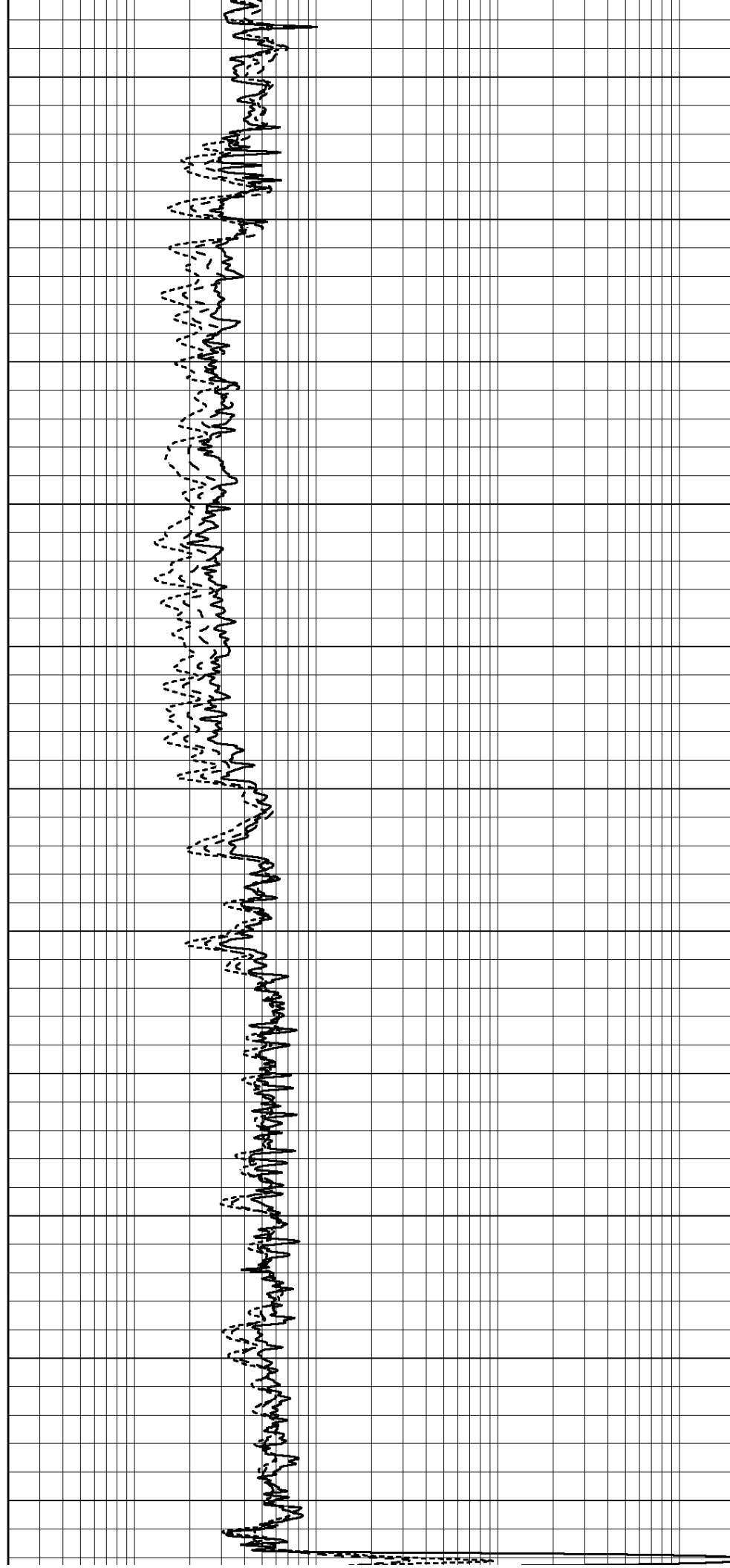
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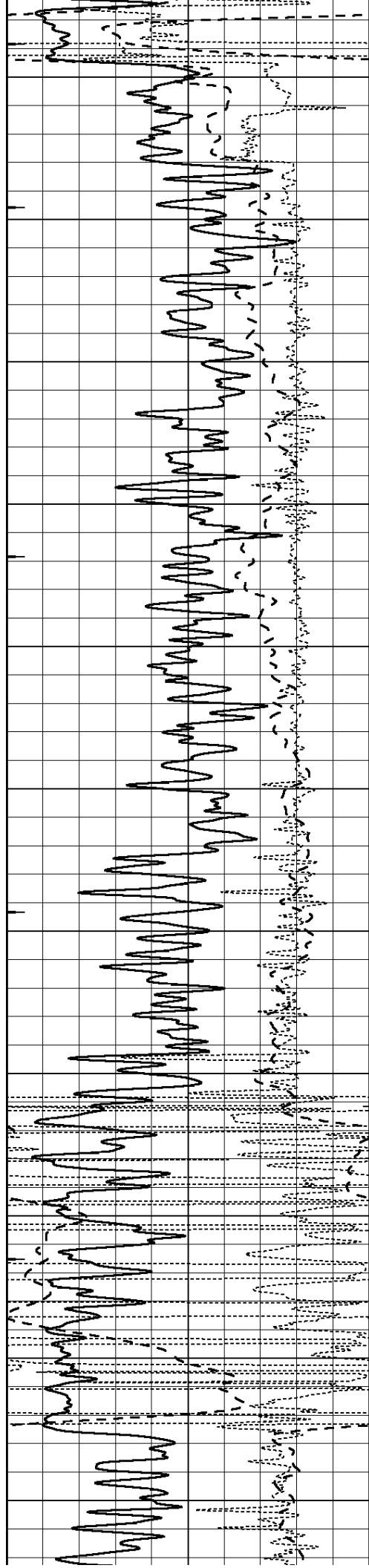
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2000

2050

2100





2150

2200

2250

2300

2350

2400

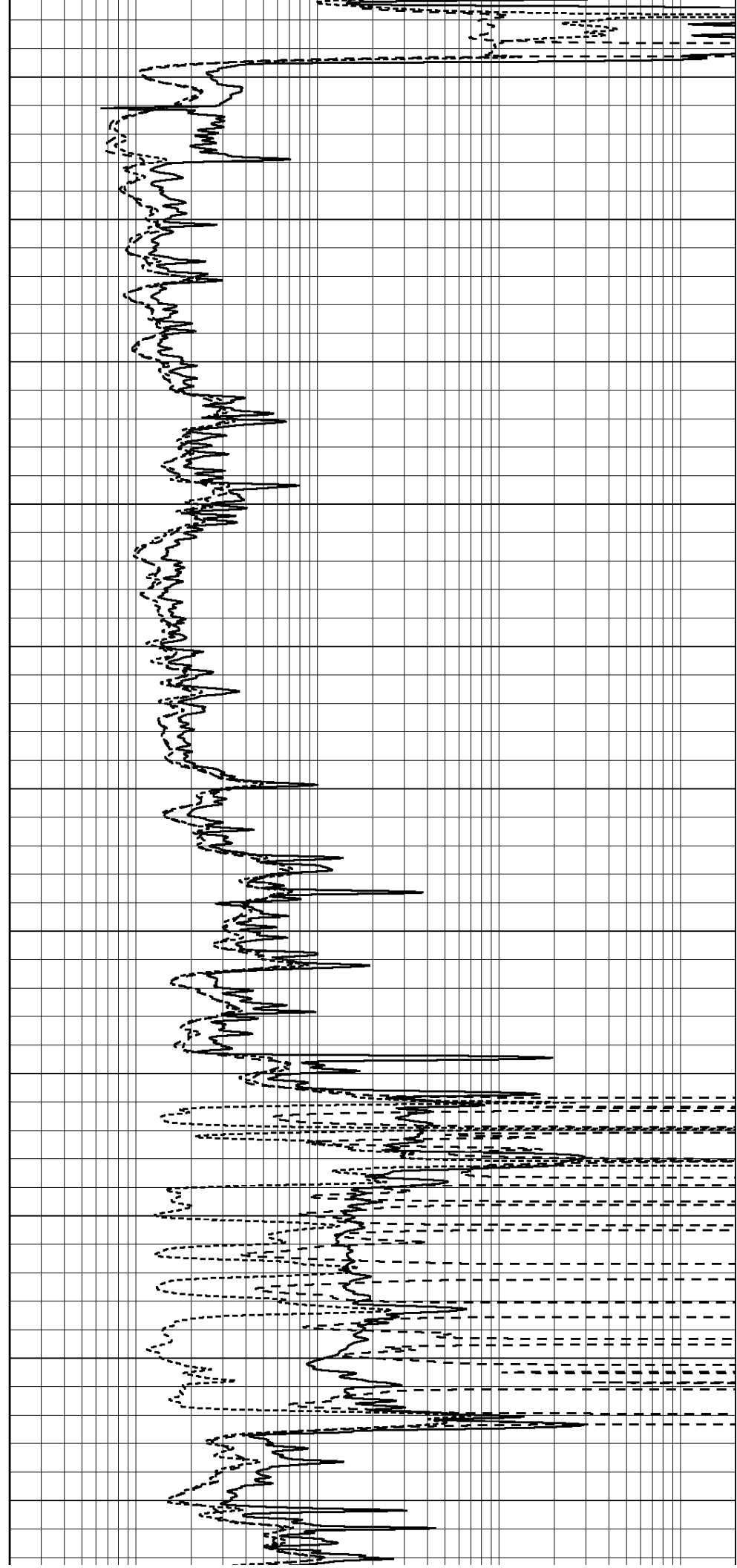
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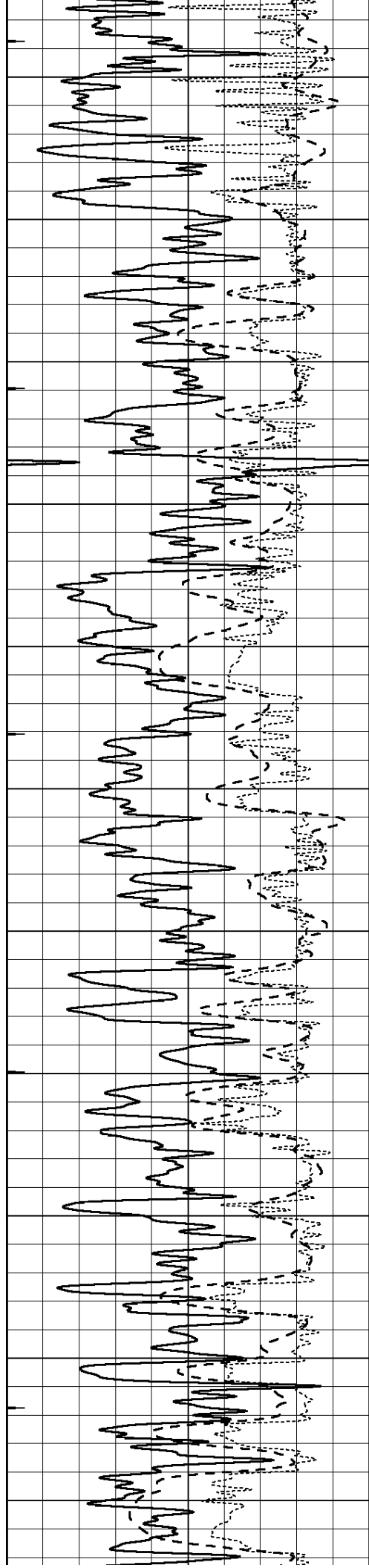
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2600

2650





2700

2750

2800

2850

2900

2950

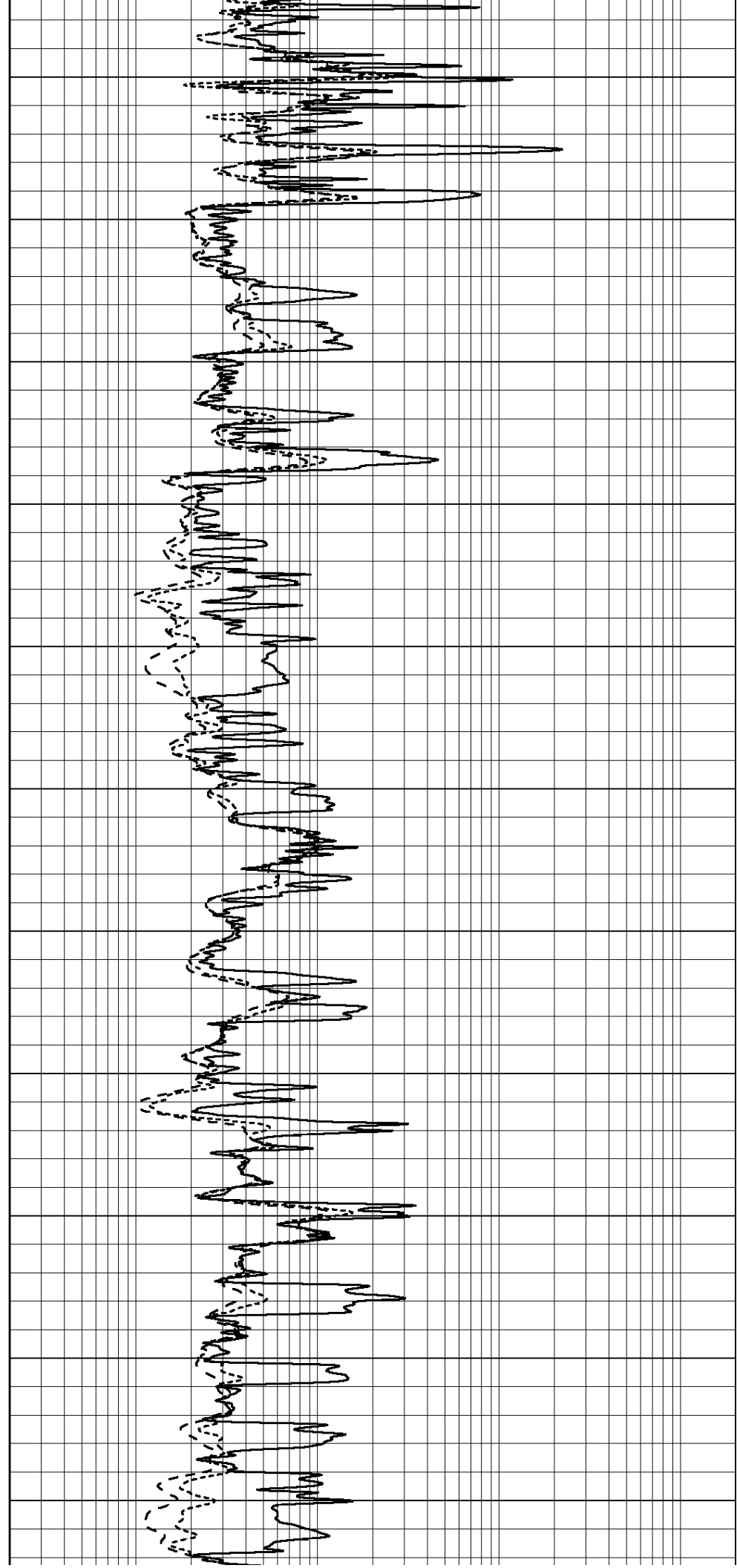
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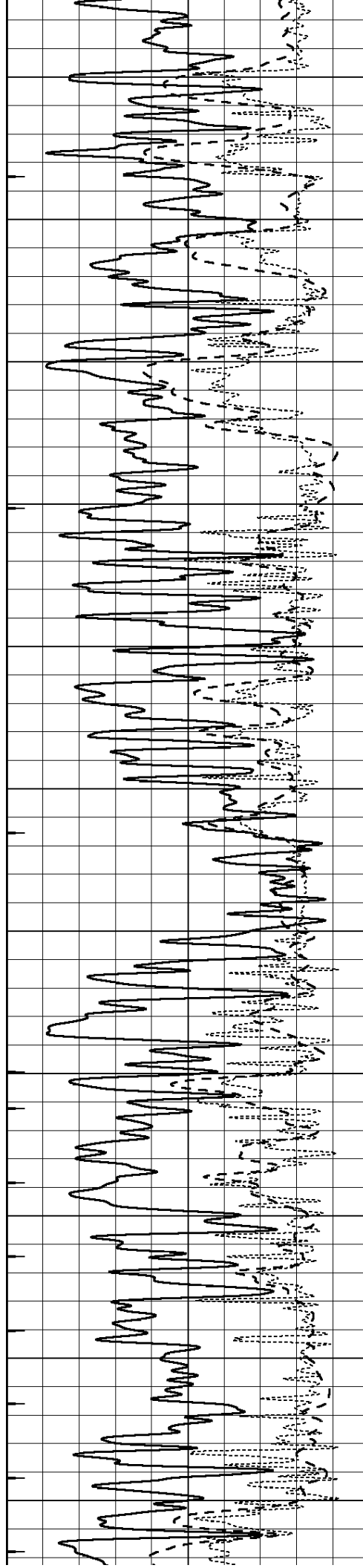
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3150

3200





3250

3300

3350

3400

3450

3500

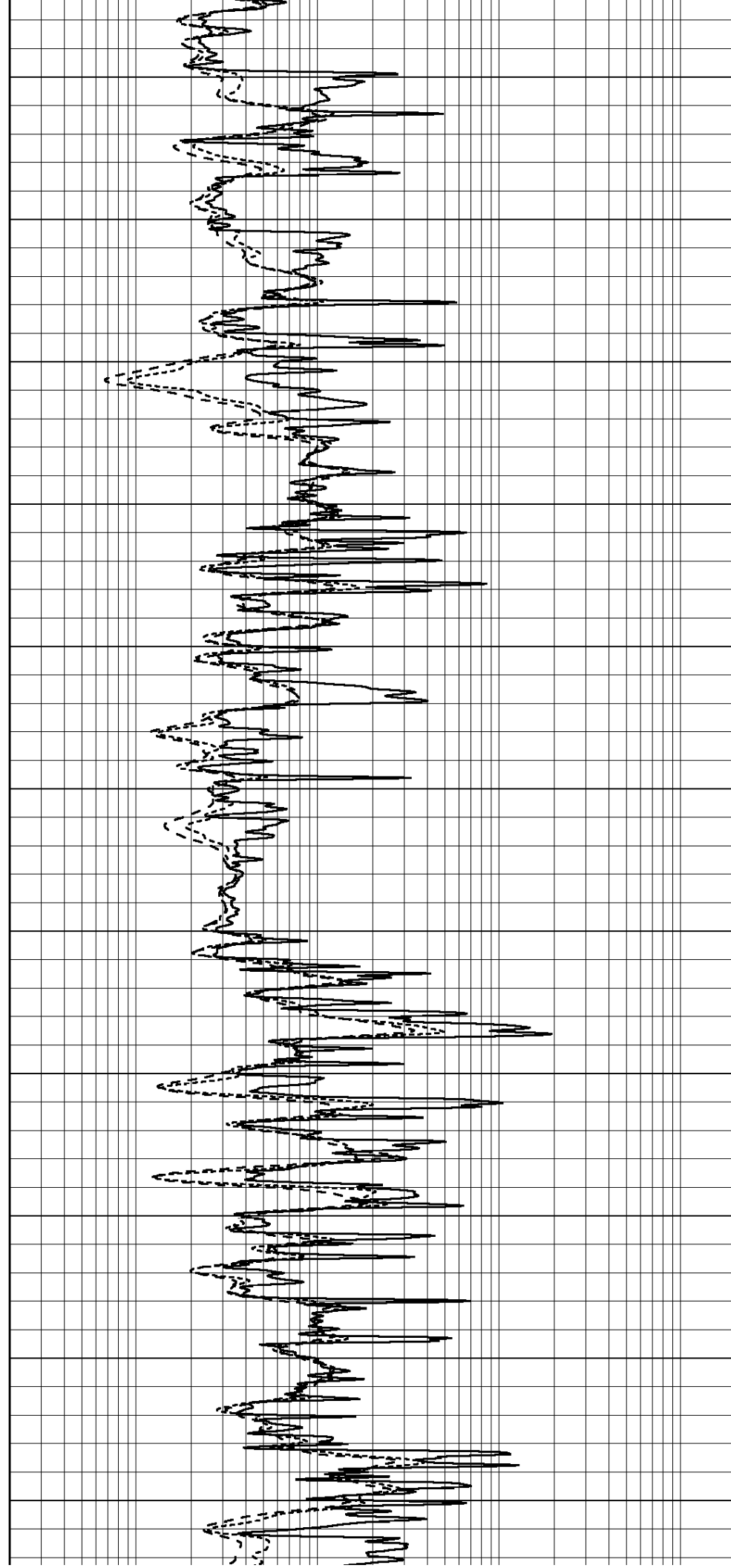
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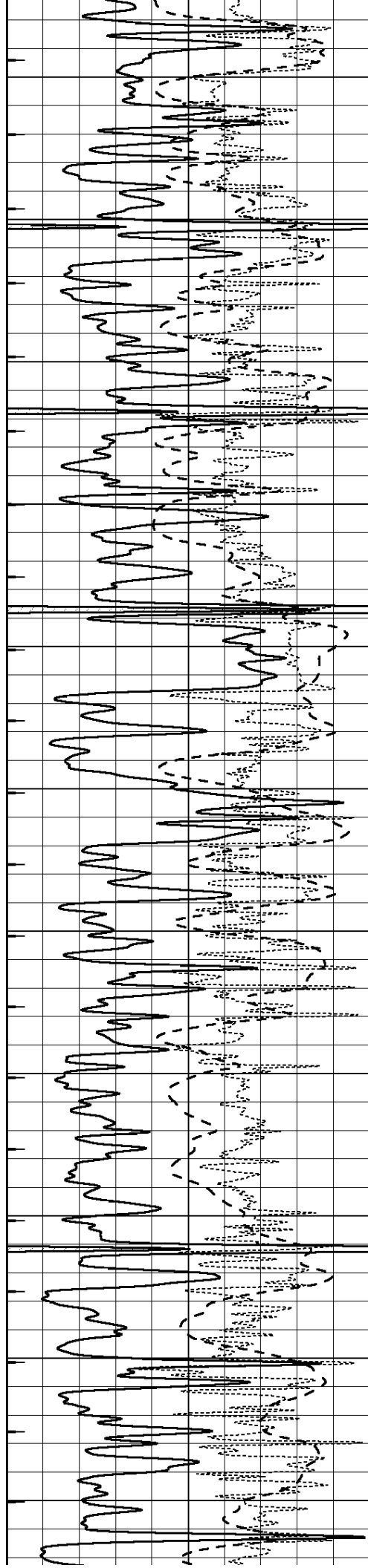
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3700

3750





3800

3850

3900

3950

4000

4050

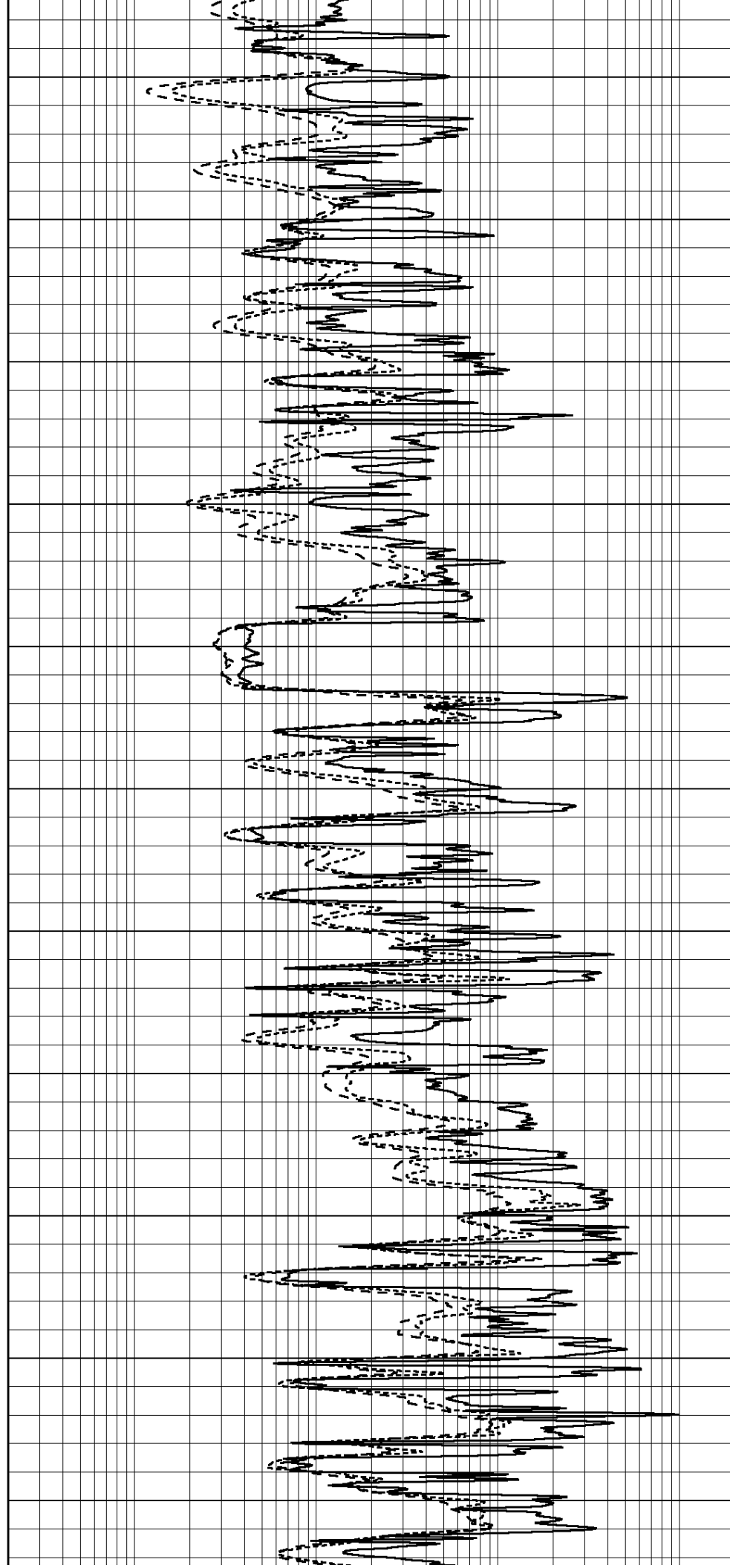
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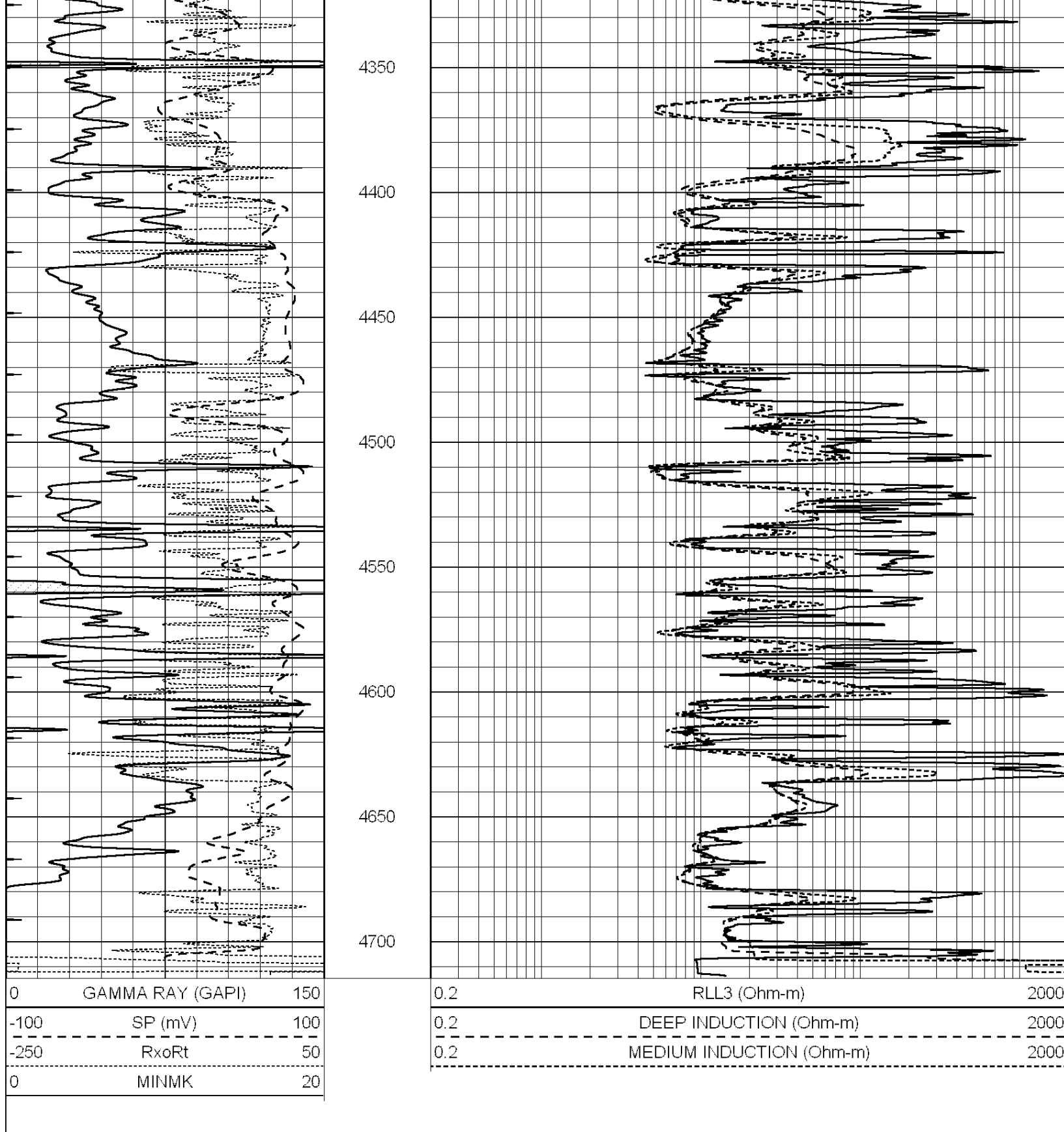
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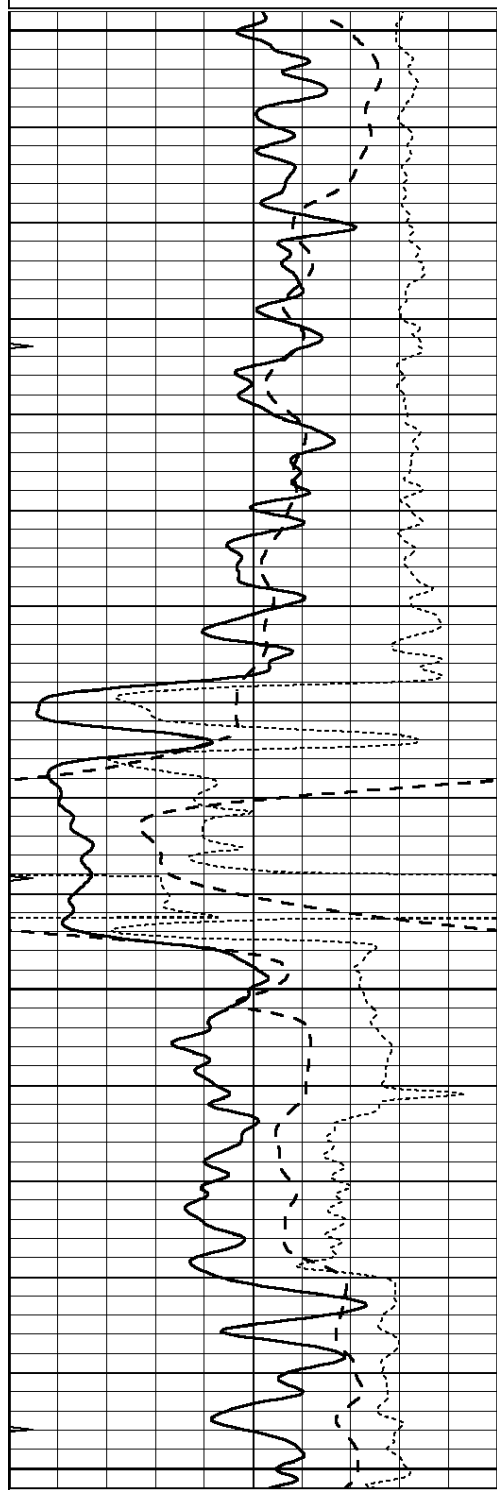
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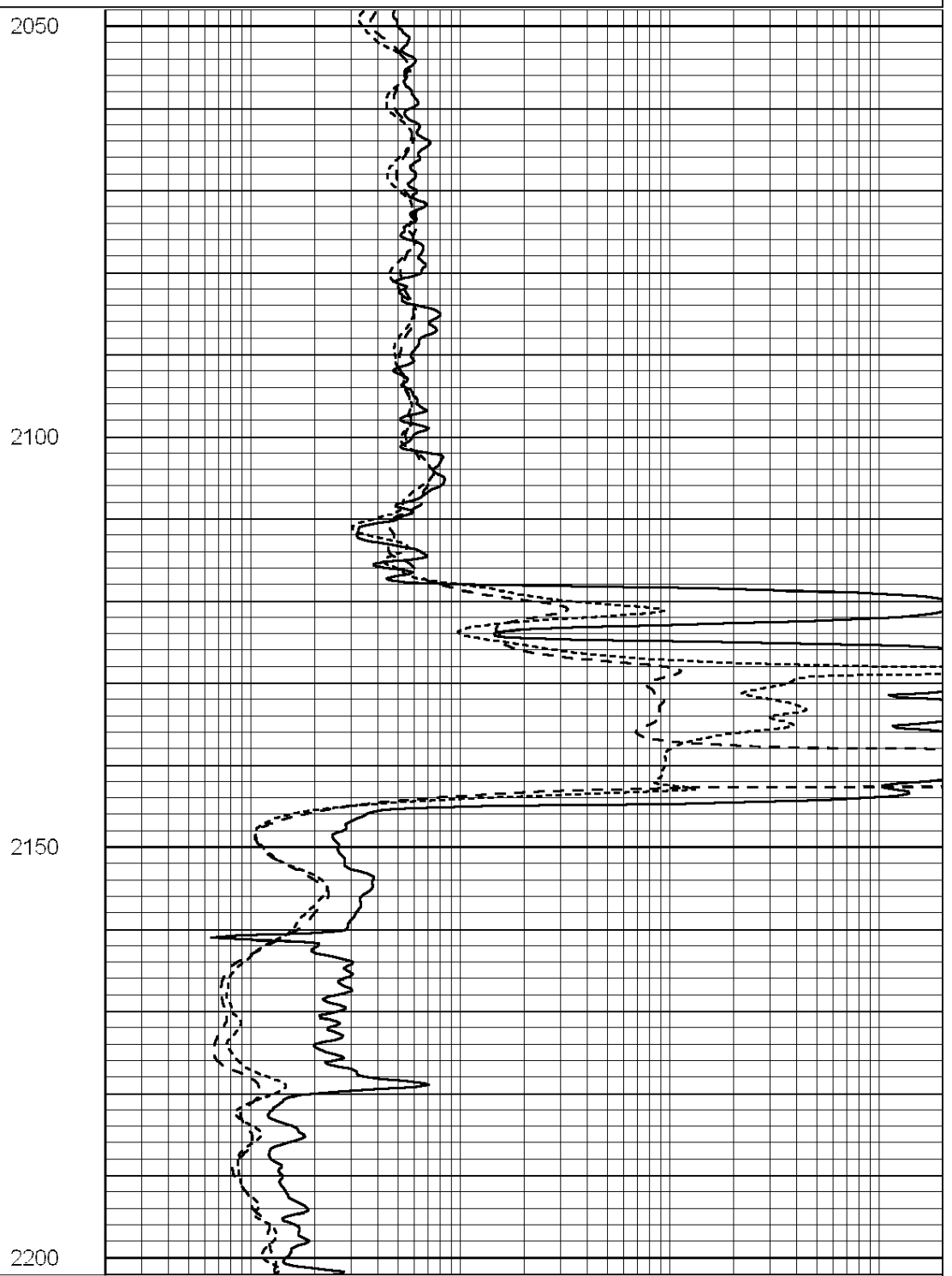


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Presentation Format: _dil
Dataset Creation: Wed Jul 17 03:16:11 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000



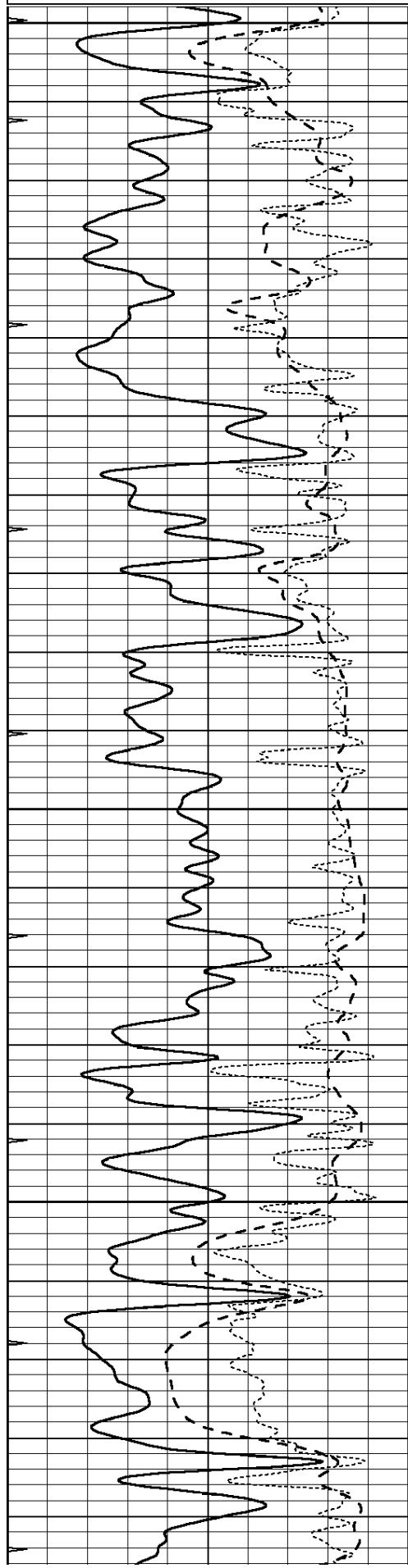
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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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

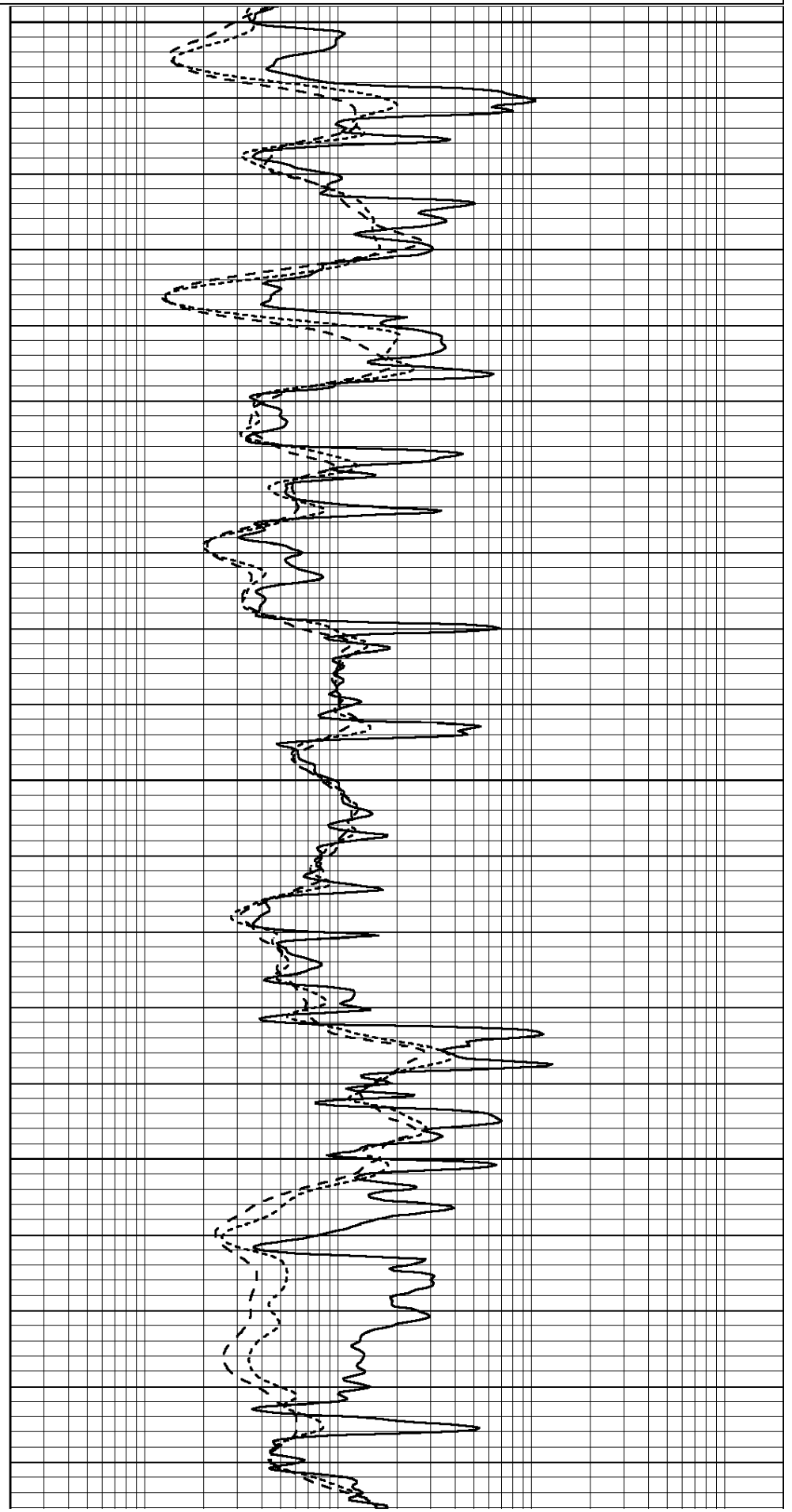


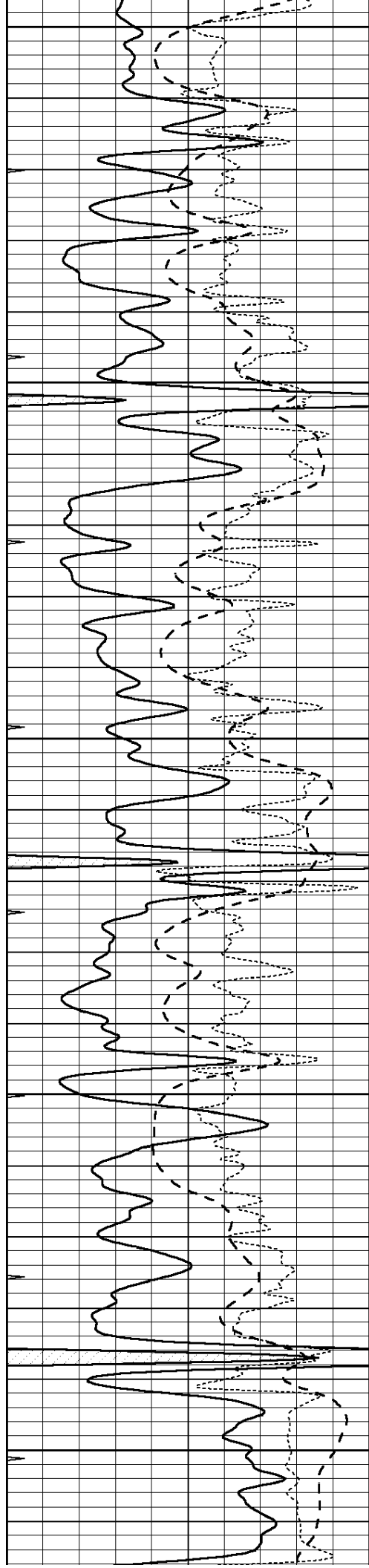
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3750





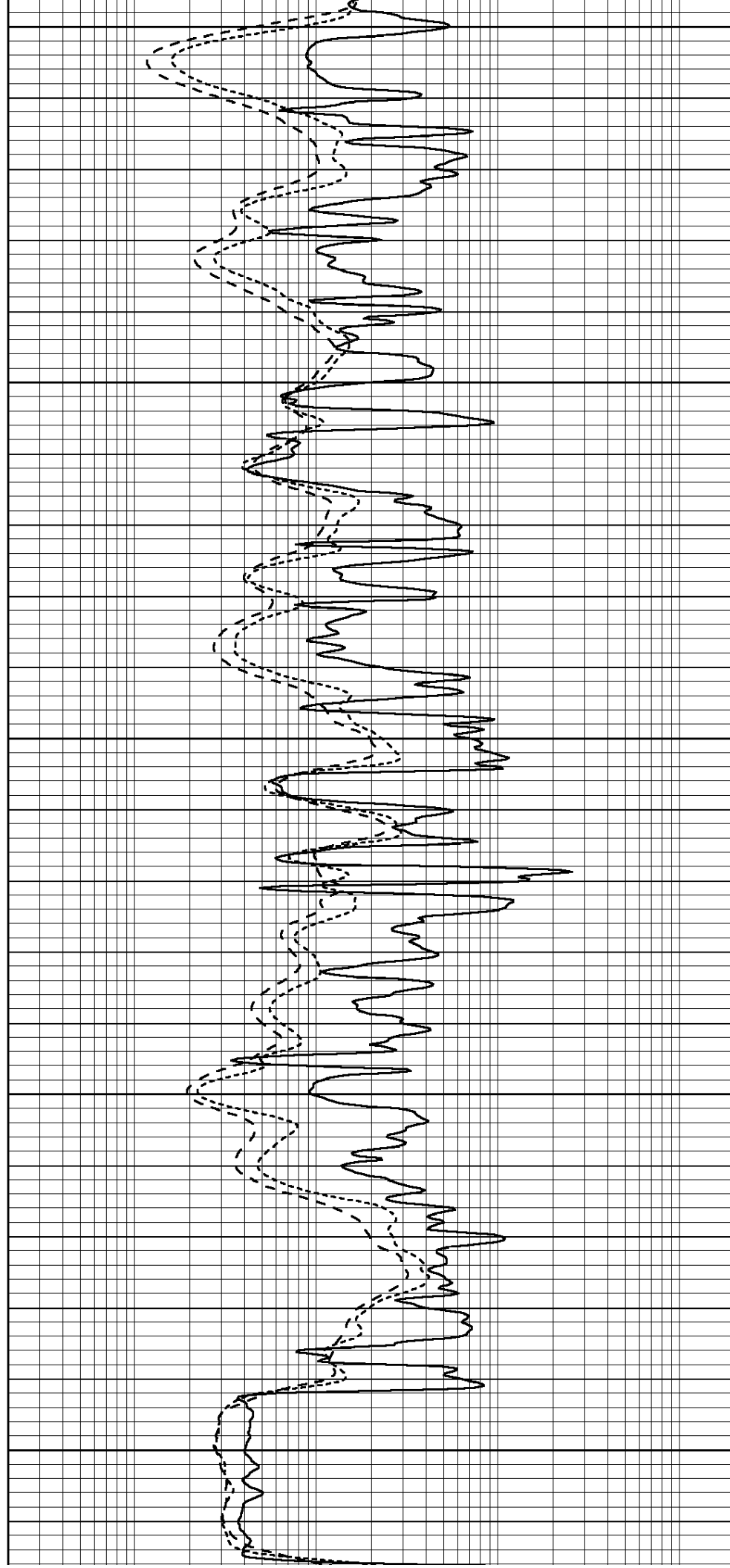
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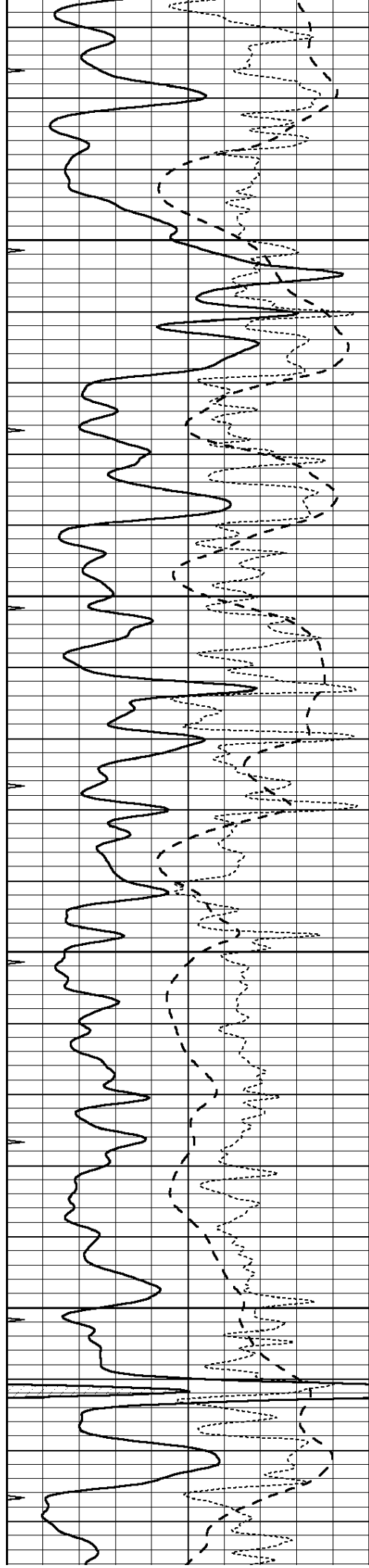
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3900

3950

4000



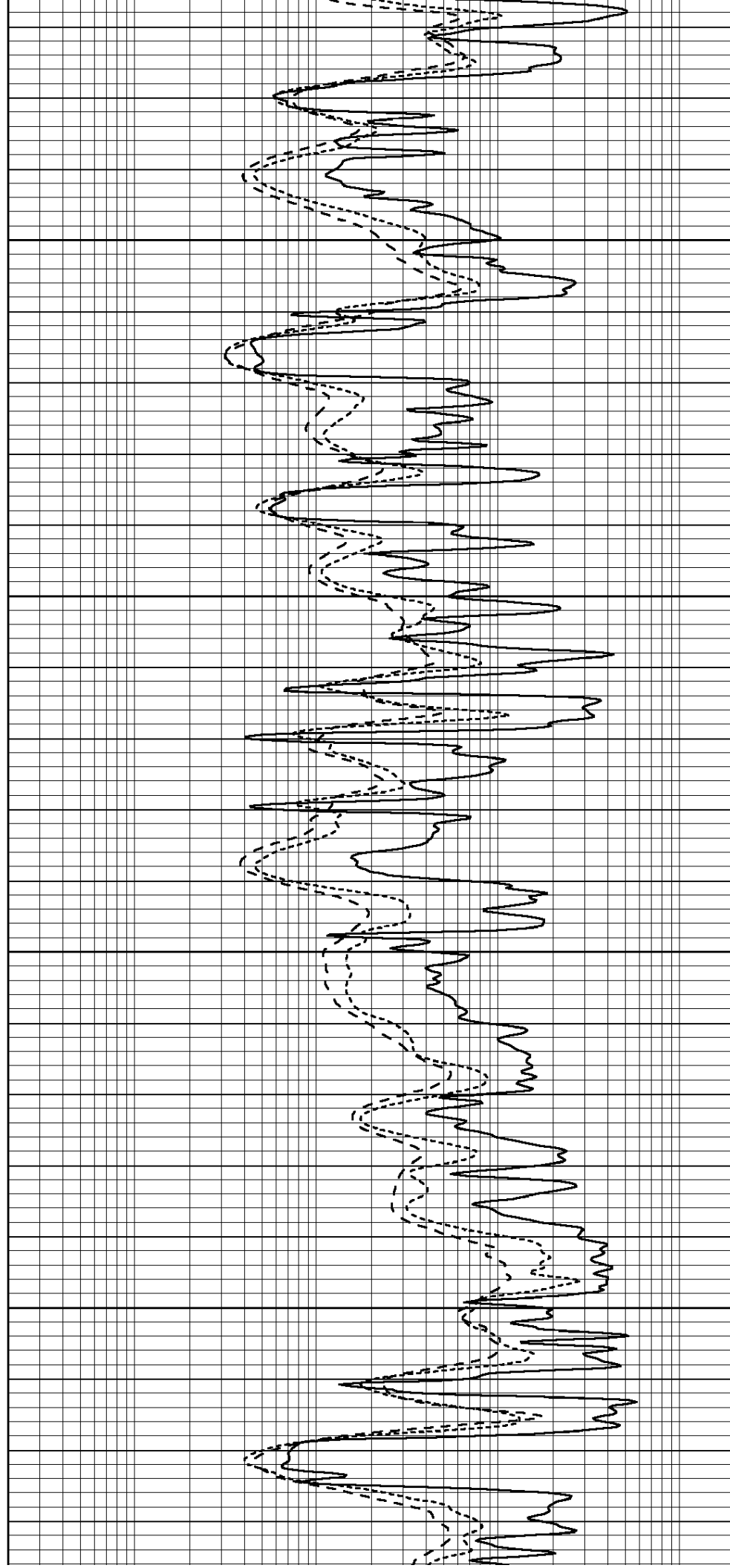


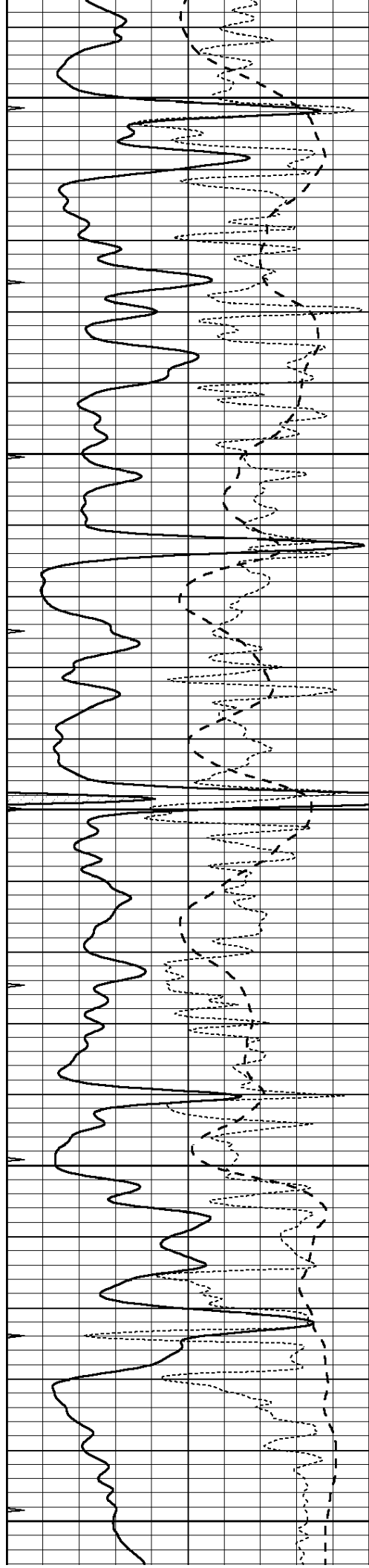
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4150

4200





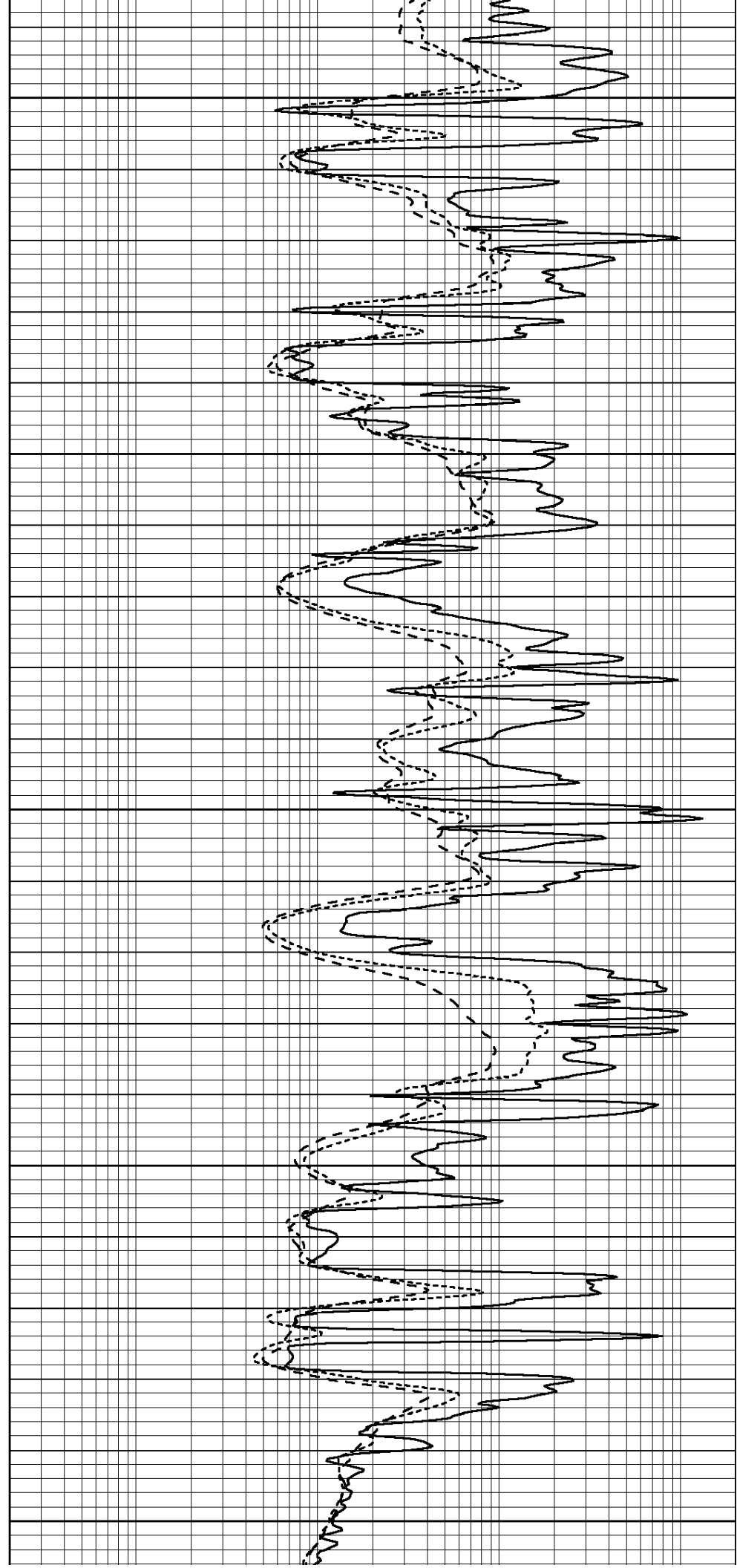
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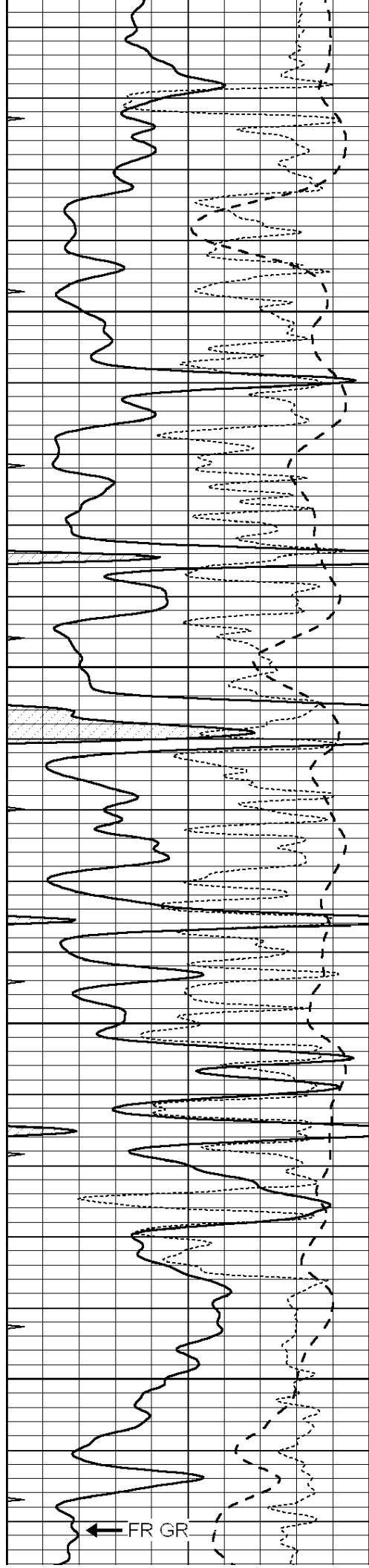
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4400

4450



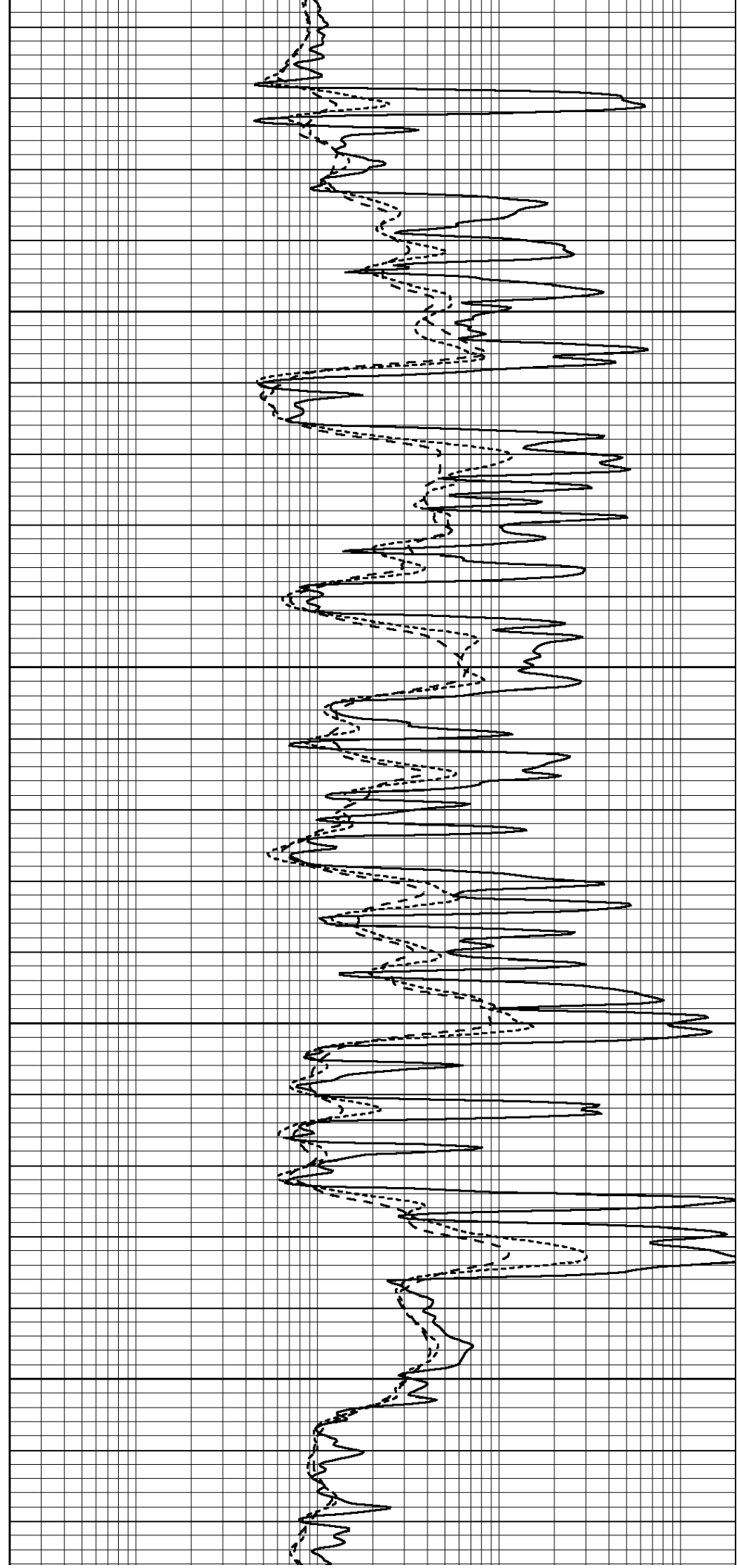


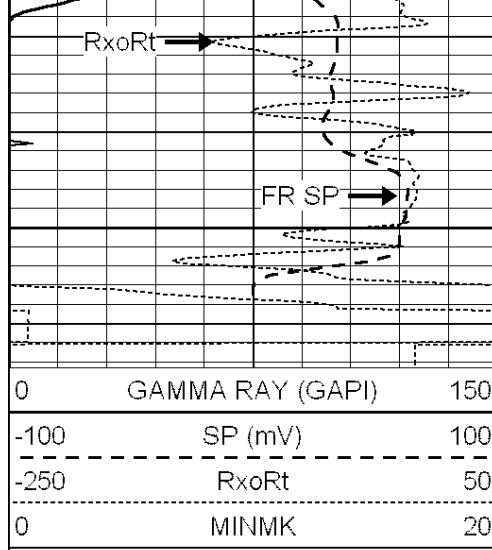
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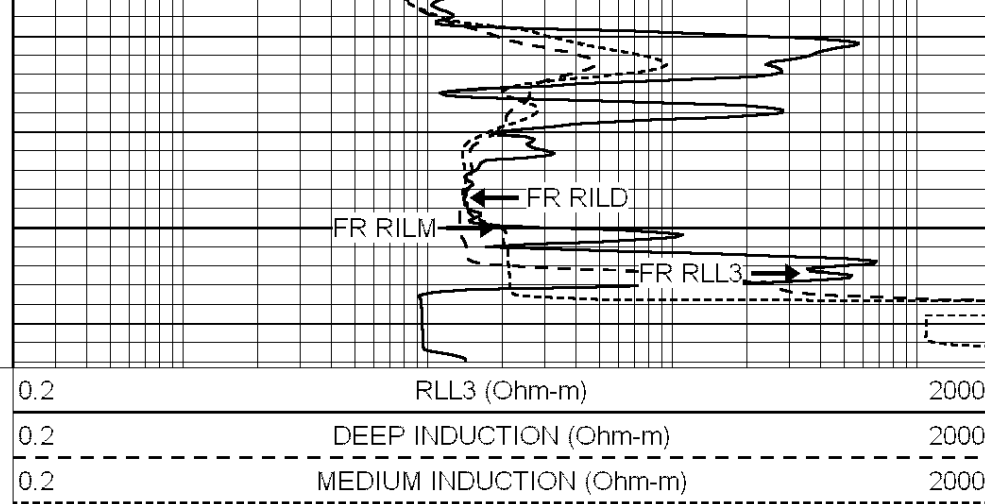
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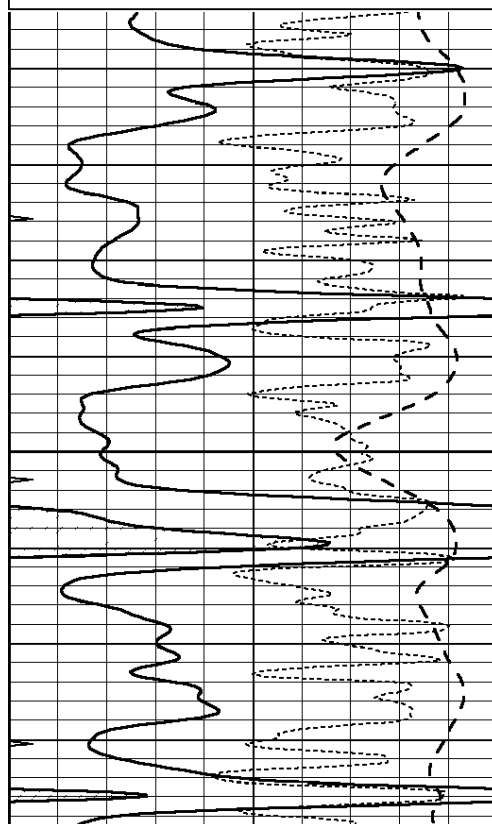
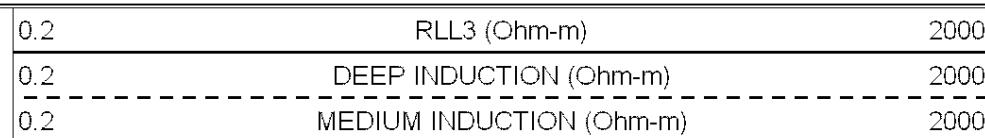
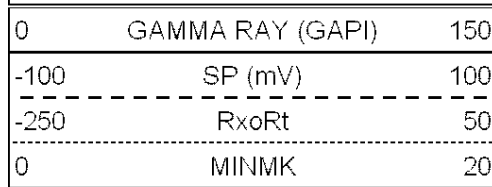
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LTD 4707



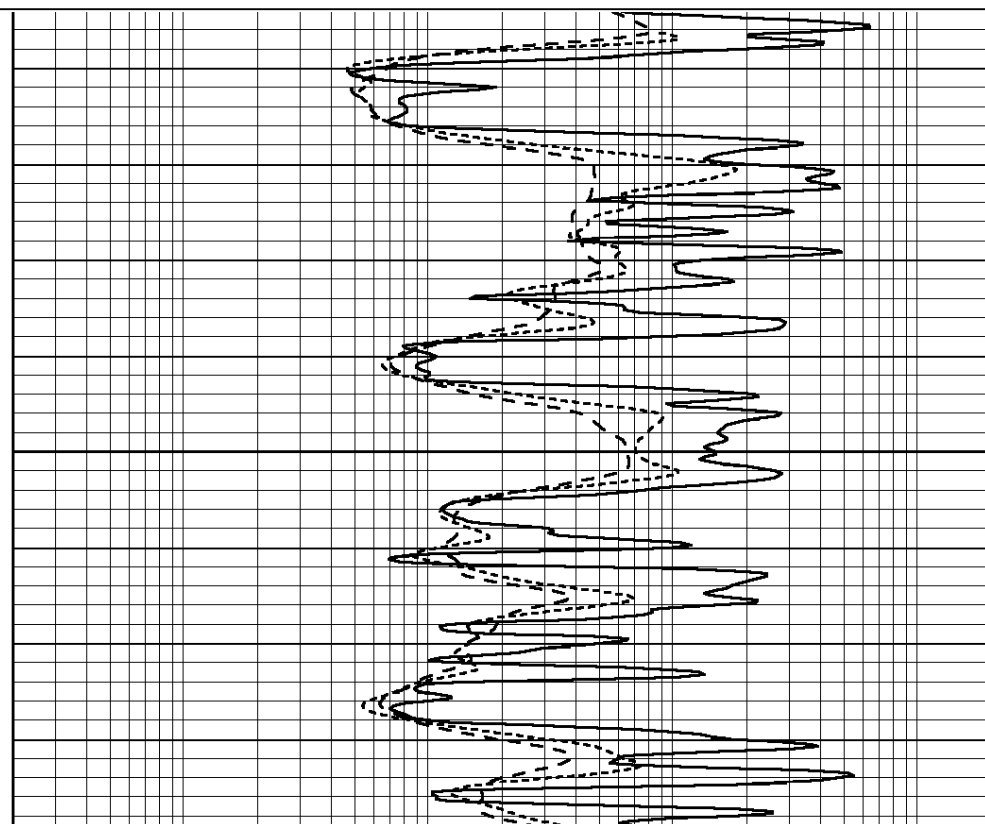
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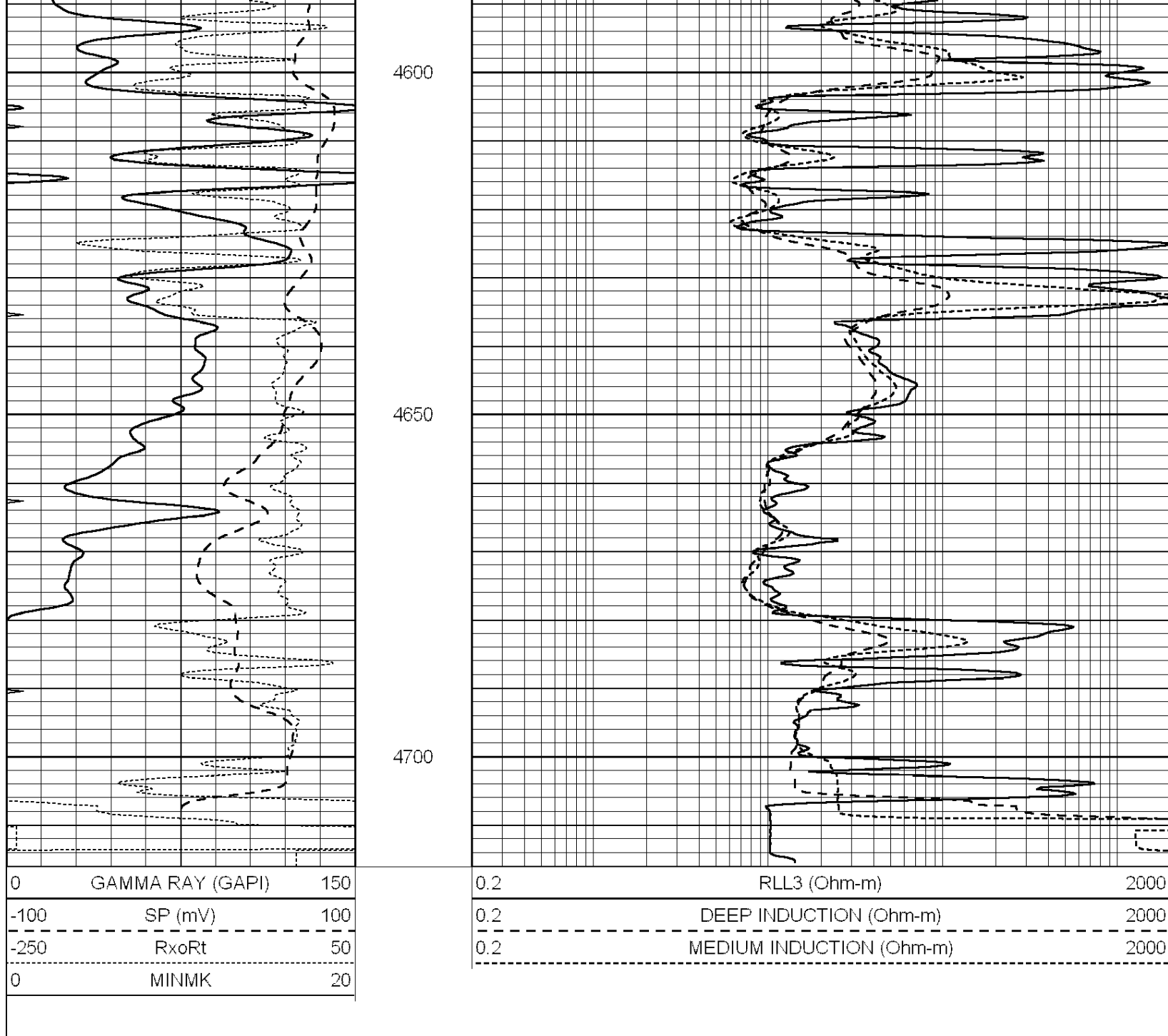
REPEAT SECTION

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Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Wed Jul 17 01:36:07 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240



4550





Calibration Report								
Database File:		011363ddn.db						
Dataset Pathname:		pass4.3						
Dataset Creation:		Wed Jul 17 03:16:11 2013 by Calc Open-Cased 090629						
Dual Induction Calibration Report								
Serial-Model:		PROBE7-DILG						
Surface Cal Performed:		Mon Jul 01 07:10:41 2013						
Downhole Cal Performed:		Sat Jan 19 19:51:38 2013						
After Survey Verification Performed:		Sat Jan 19 19:51:38 2013						
Surface Calibration								
		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	620.000	22.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	660.000	-30.000

Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		
Compensated Density Calibration Report								
	Serial-Model:				GEAR2-GEARHART			
	Source / Verifier:				147 / 147			
	Master Calibration Performed:				Mon Jul 01 05:43:11 2013			
Master Calibration								
	Density			Far Detector		Near Detector		
Magnesium	1.710	g/cc		923.76		475.45	cps	
Aluminum	2.600	g/cc		205.31		331.69	cps	
	Spine Angle = 76.54			Density/Spine Ratio = 0.576				
	Size			Reading				
Small Ring	8.40	in		5.48	V			
Large Ring	14.00	in		7.58	V			
Compensated Neutron Calibration Report								
	Serial Number:				NEU_4I			
	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:		Mon Jul 01 05:22:08 2013					
	Calibrator Value:		1.0		GAPI			
	Background Reading:		0.0		cps			
	Calibrator Reading:		1.0		cps			

Sensitivity:

0.9000

GAPI/cps