



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

DUAL INDUCTION LOG

Company		WOOLSEY OPERATING COMPANY, LLC.	
Well	GRESS - DAWSON #2		
Field	PIKE SOUTH		
County	BARBER	State	KANSAS
Location:	SEC 35 TWP 31S RGE 12W 930' FSL & 1675' FEL SW NE SW SE		API # : 15-007-24024-0000 CDL/CNL/PE
Permanent Datum	GROUND LEVEL	Elevation	1560
Log Measured From	KELLY BUSHING 12' A.G.L.	K.B. 1572	
Drilling Measured From	KELLY BUSHING	D.F. 1570	
		G.L. 1560	
Date	5/24/21		
Run Number	ONE		
Depth Driller	4785		
Depth Logger	4785		
Bottom Logged Interval	4783		
Top Log Interval	00		
Casing Driller	10 3/4" @ 217'		
Casing Logger	214		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.0/47	CHLORIDES 13000 PPM	
pH / Fluid Loss	9.0/12.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.45 @ 89F		
Rinf @ Meas. Temp	.33 @ 89F		
Rmc @ Meas. Temp	.54 @ 89F		
Source of Rinf / Rmc	MEASURED		
Rin @ BHT	.32 @ 123F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	123F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	SCOTT ALBERG		

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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 NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

DIRECTIONS:

N. SIDE OF MEDICINE LODGE TO LAKE CITY RD. - 1 W. - N. INTO OVER CATTLE GUARD
STAY ON TRAIL FOR 1 MILE INTO

Database File:

010793pe.db

Dataset Pathname:

pass3.1

Presentation Format:

_dil

Dataset Creation:

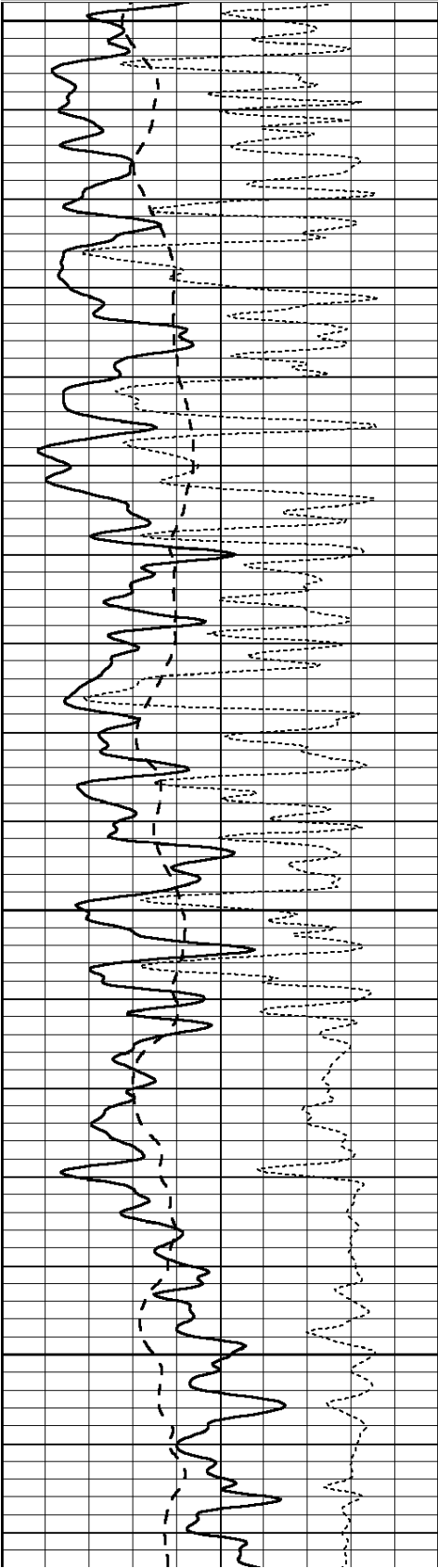
Fri May 24 14:23:41 2013 by Calc Open-Cased 090629

Charted by:

Depth in Feet scaled 1:240

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

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

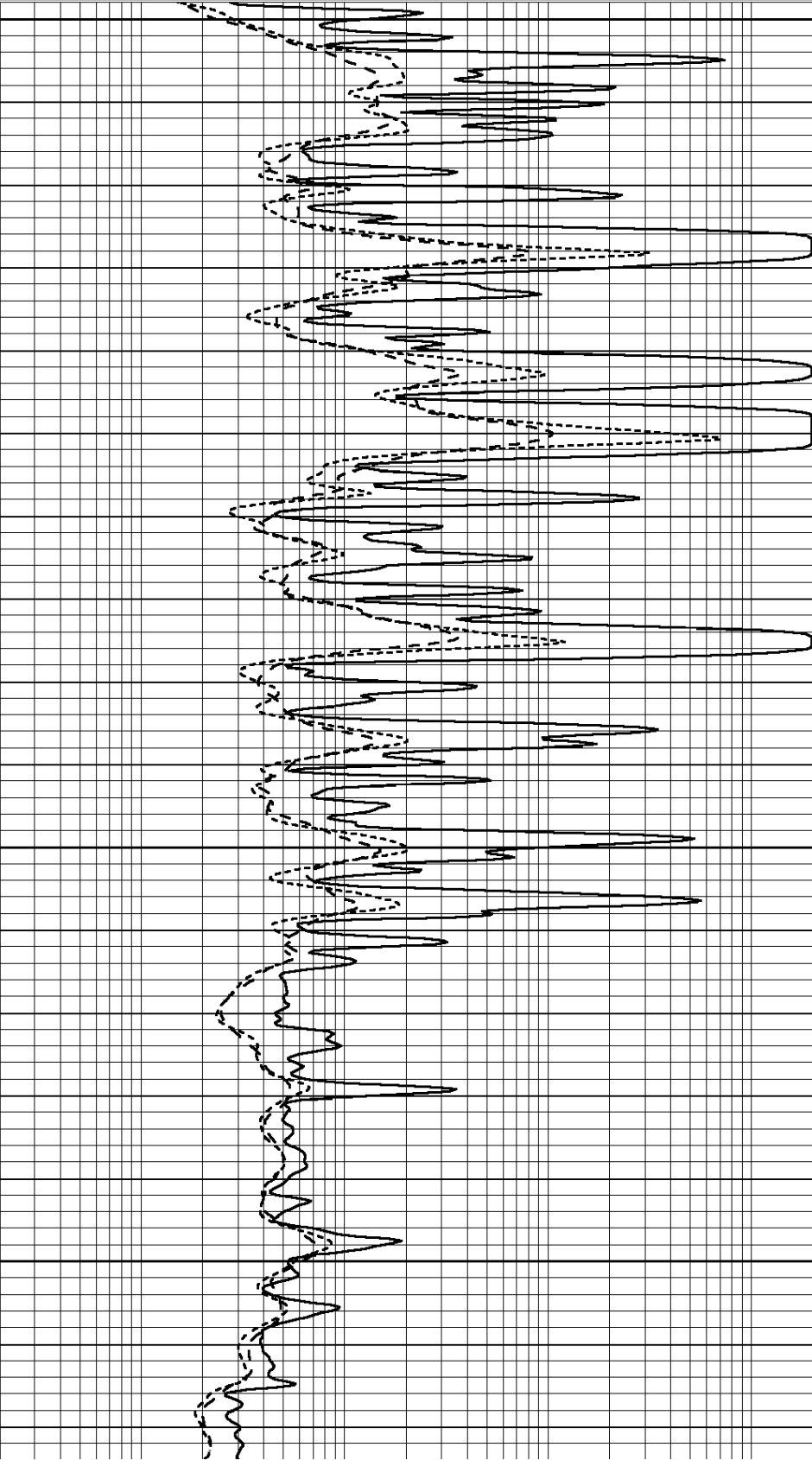


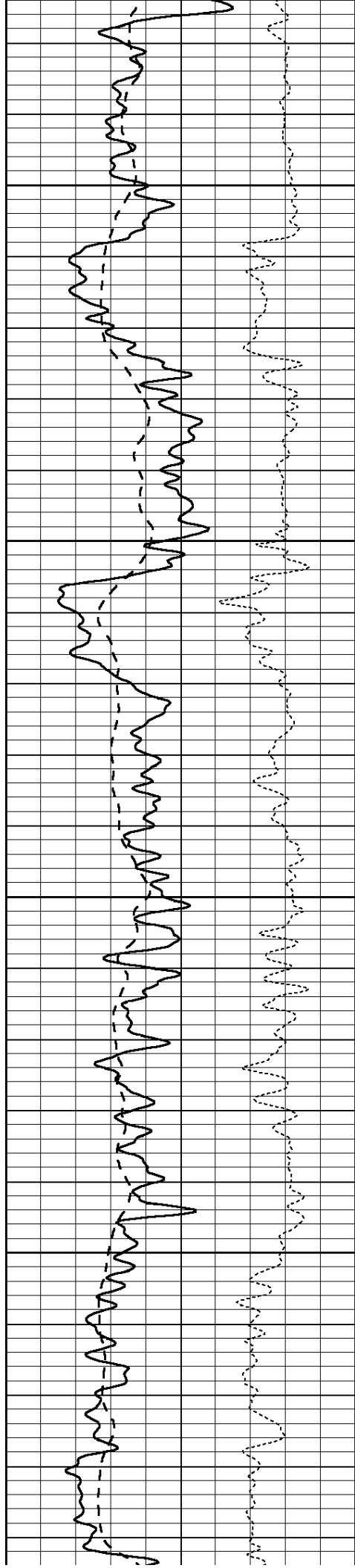
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1750

1800

1850



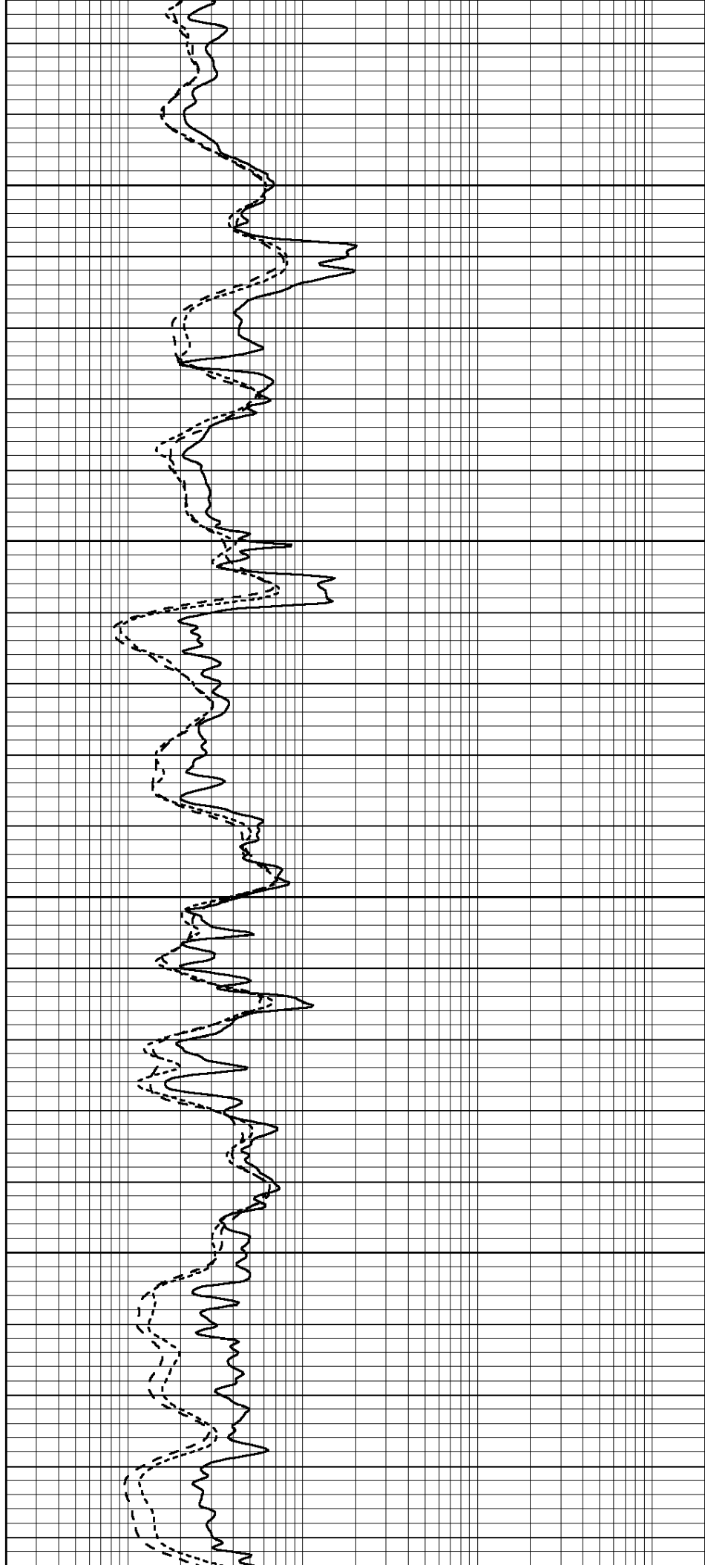


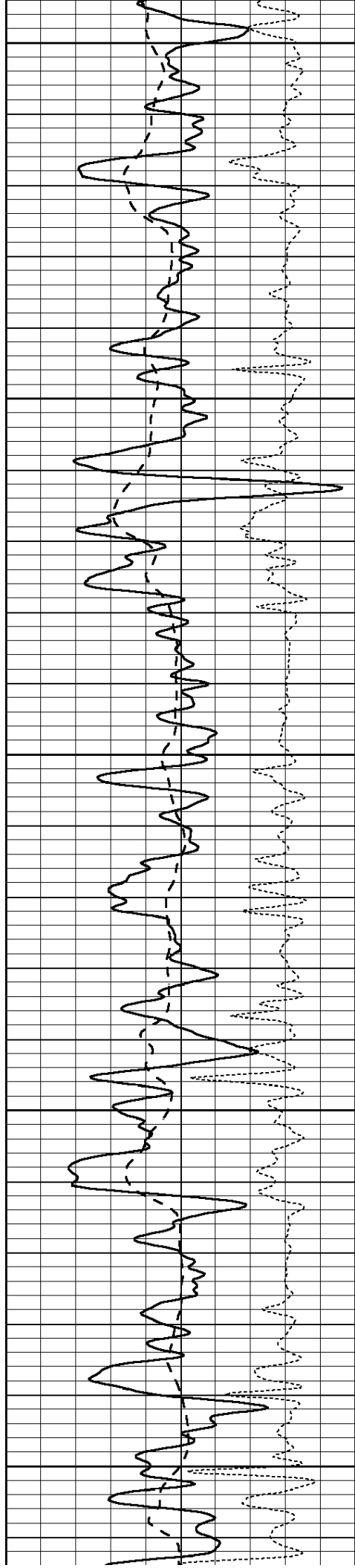
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1950

2000

2050





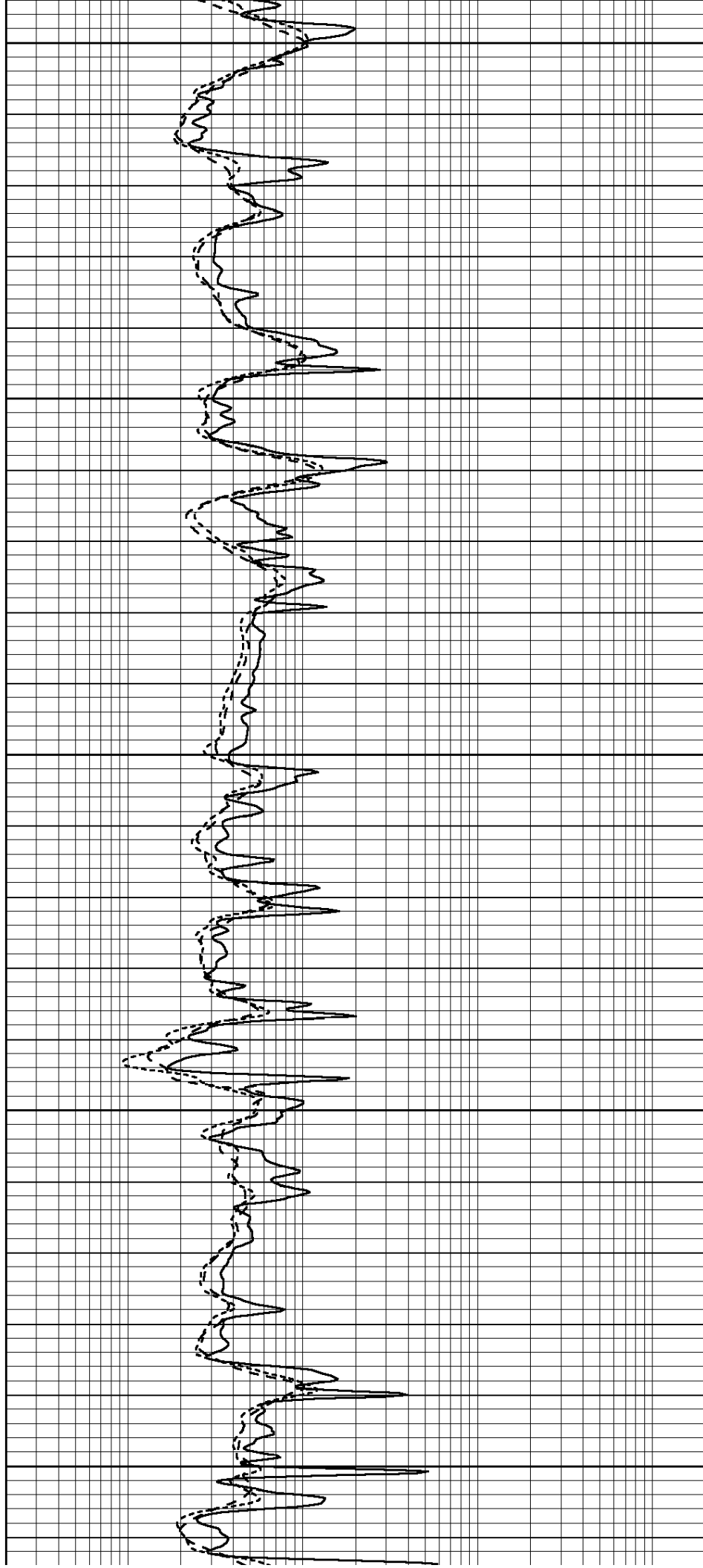
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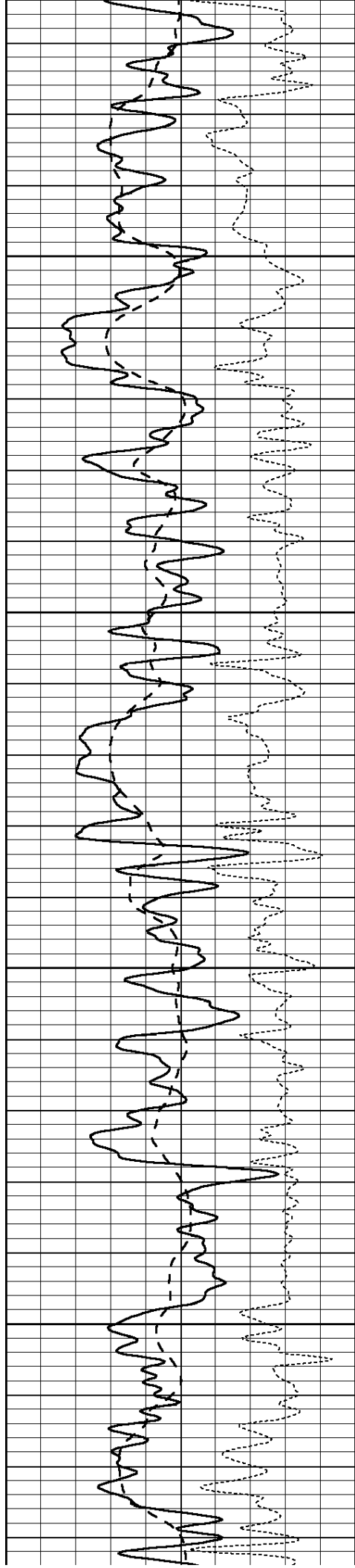
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2200

2250

2300



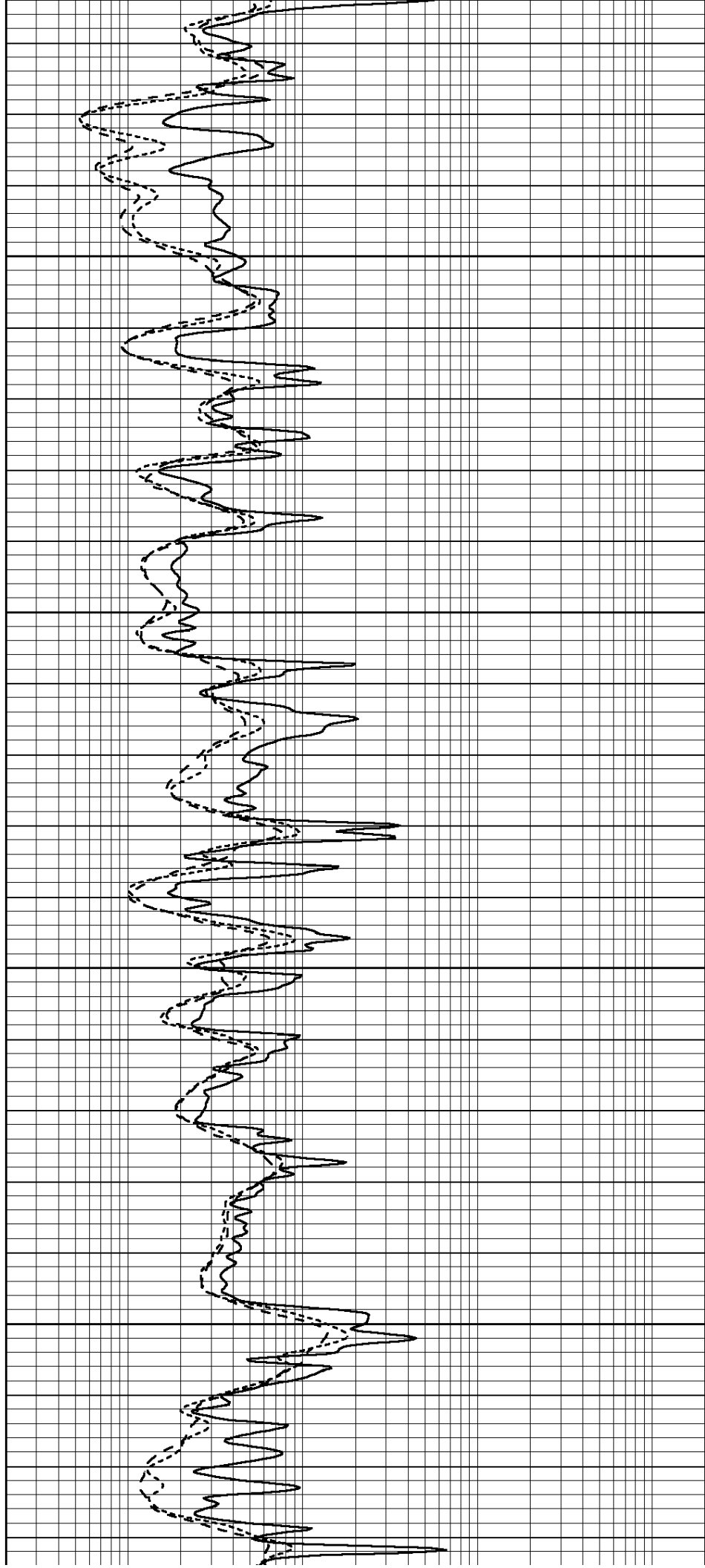


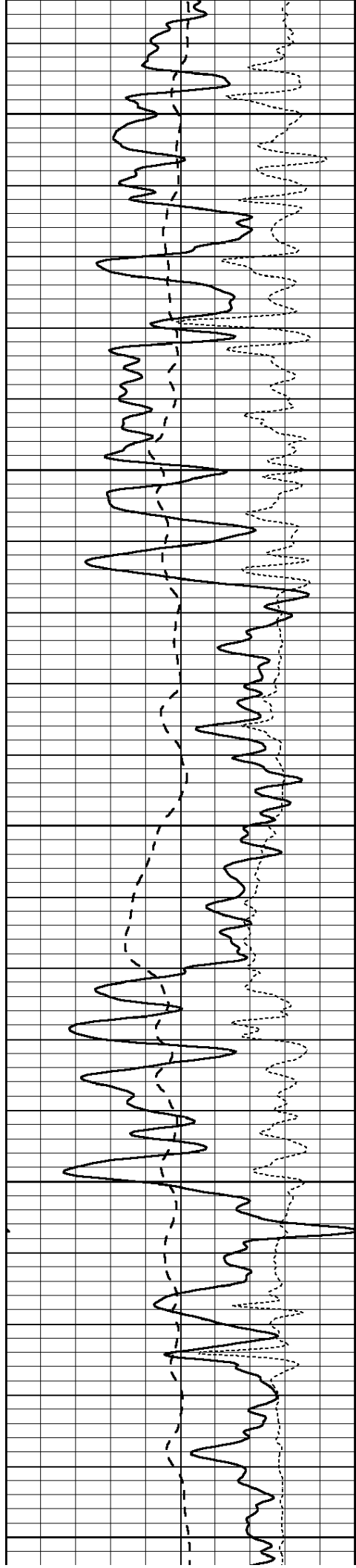
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2400

2450

2500





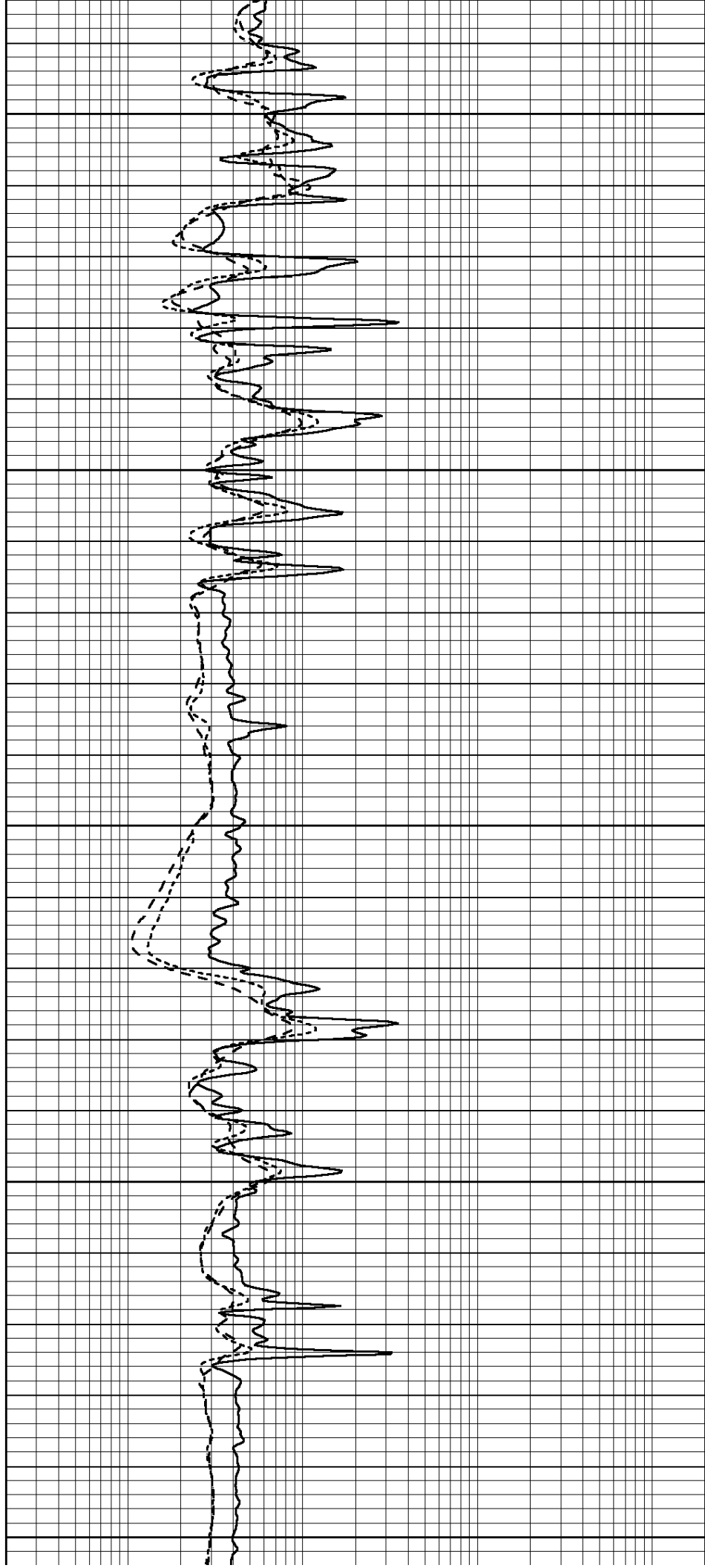
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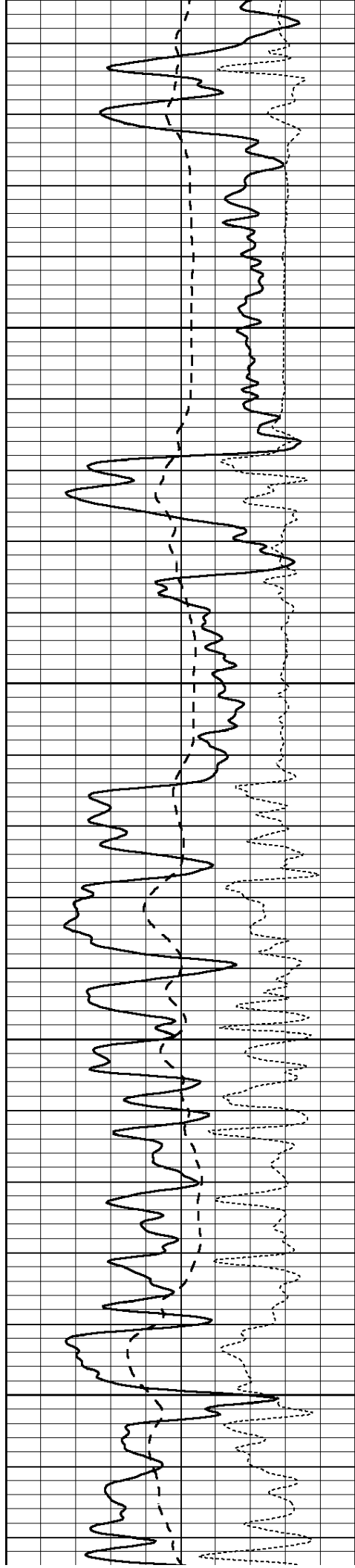
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2700

2750



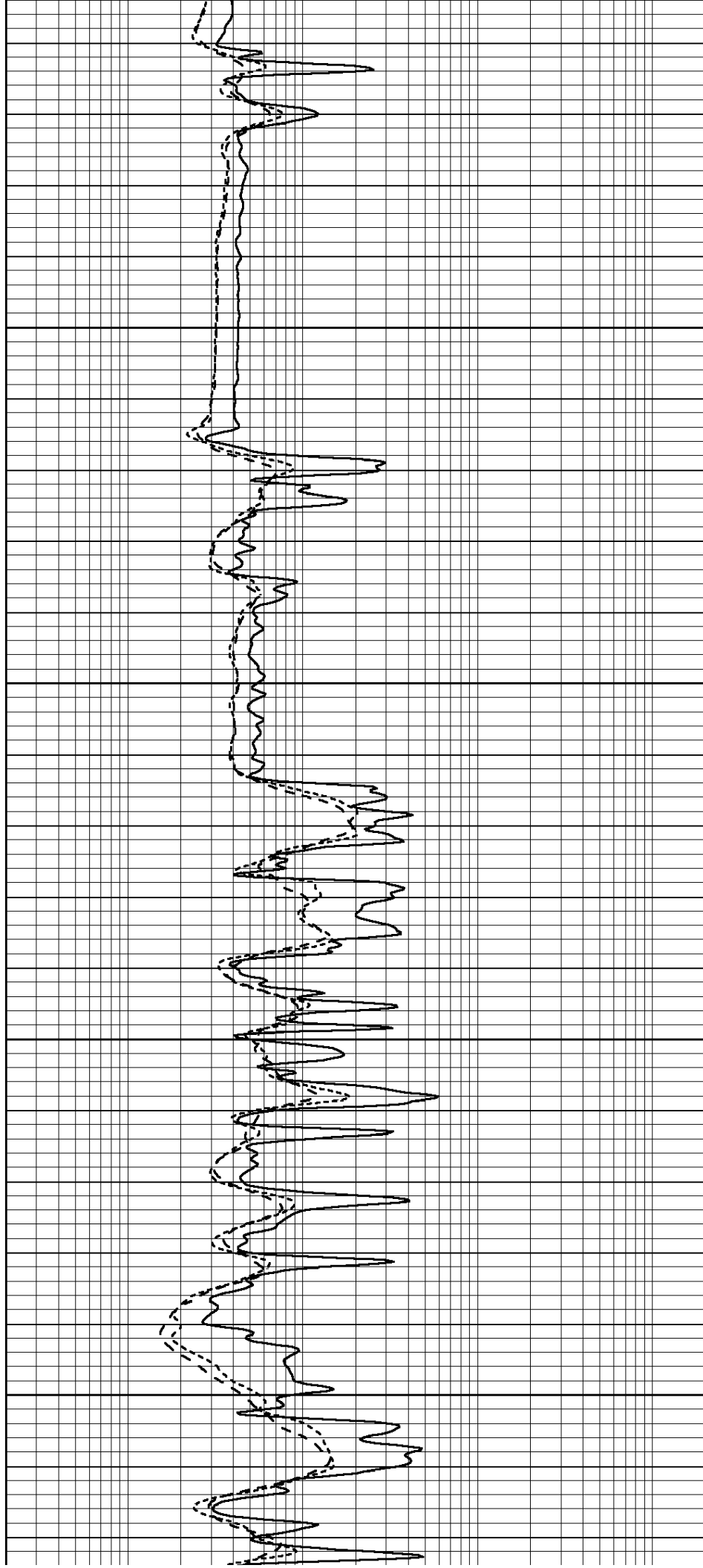


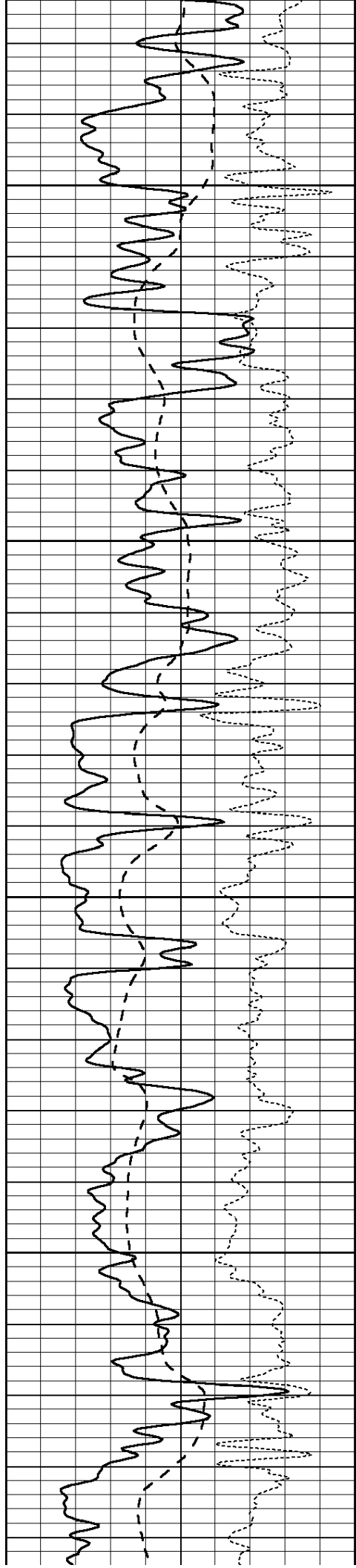
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2900

2950



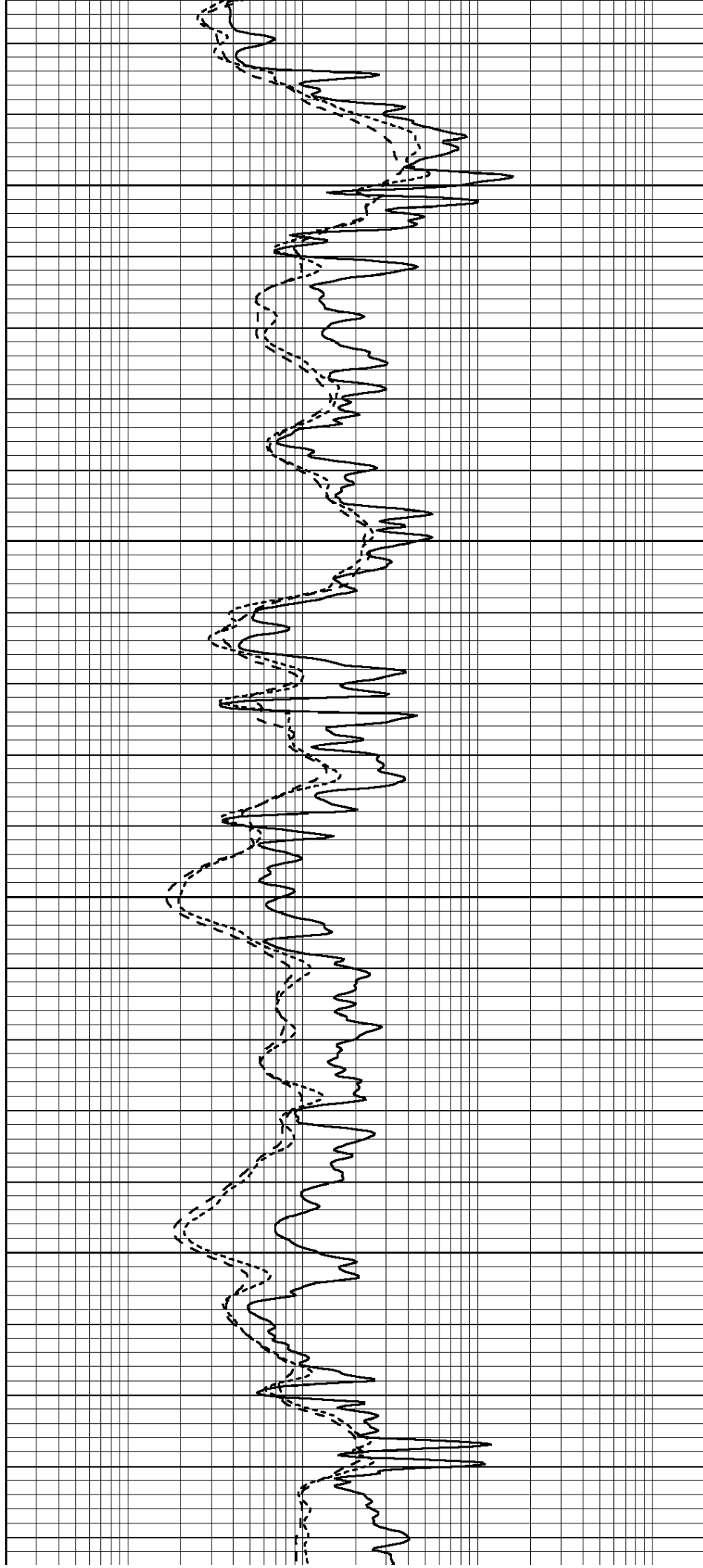


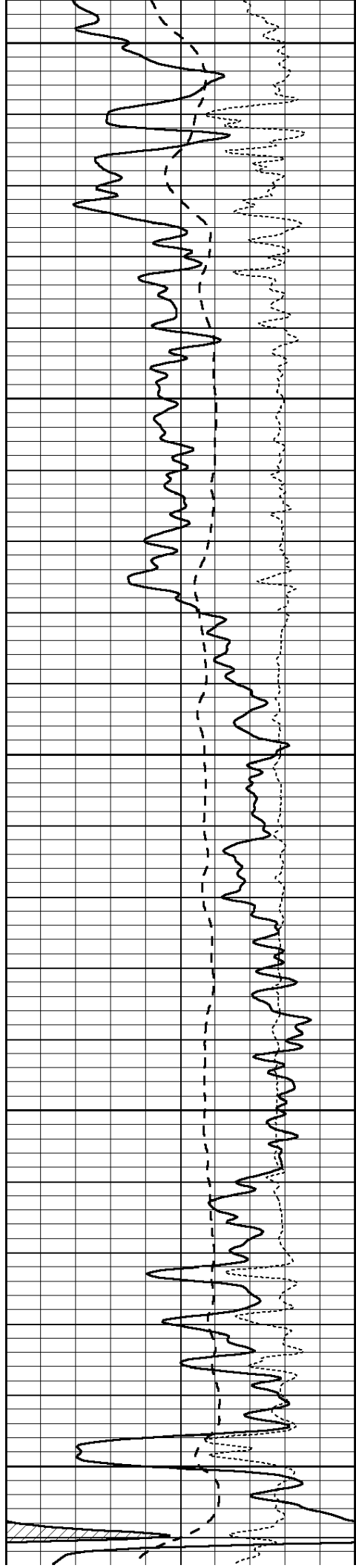
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3050

3100

3150





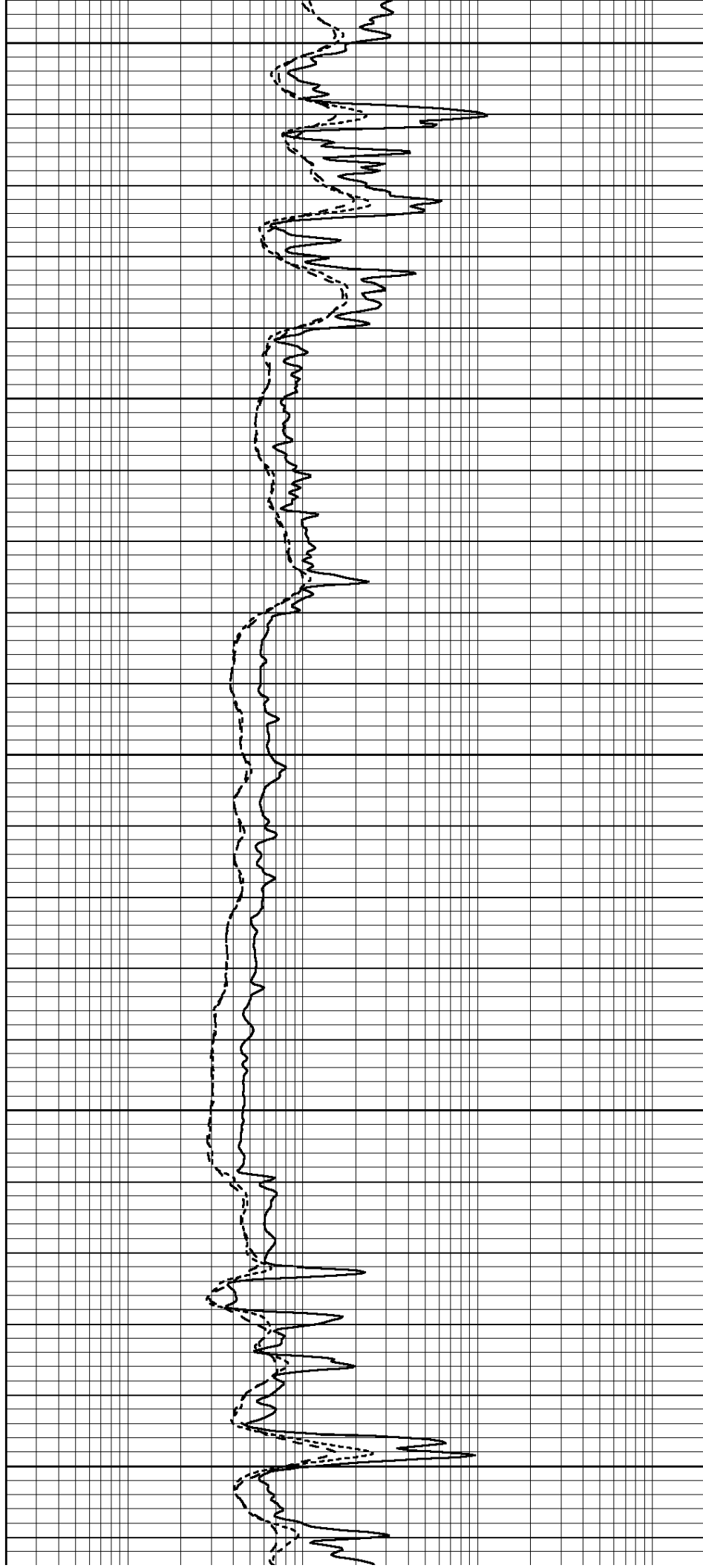
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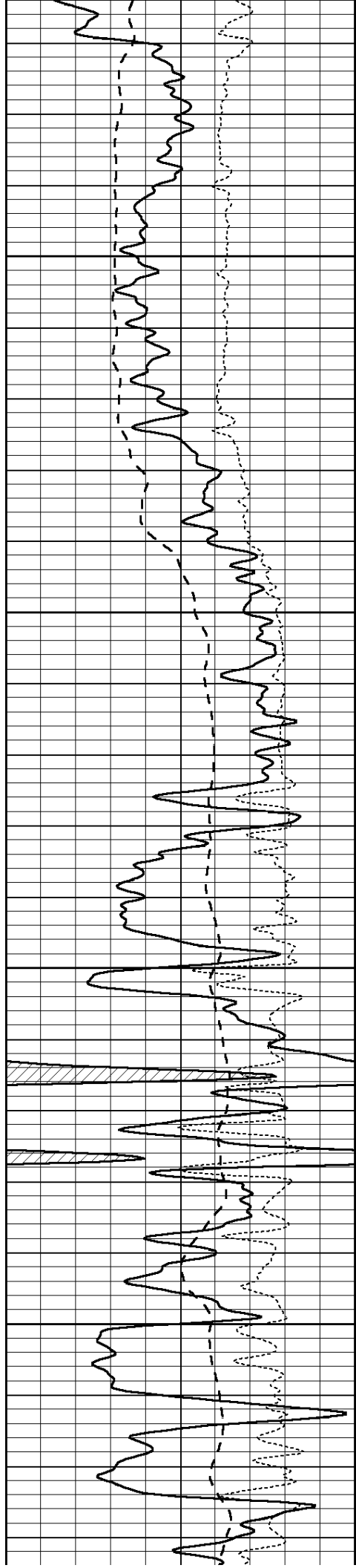
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3300

3350

3400



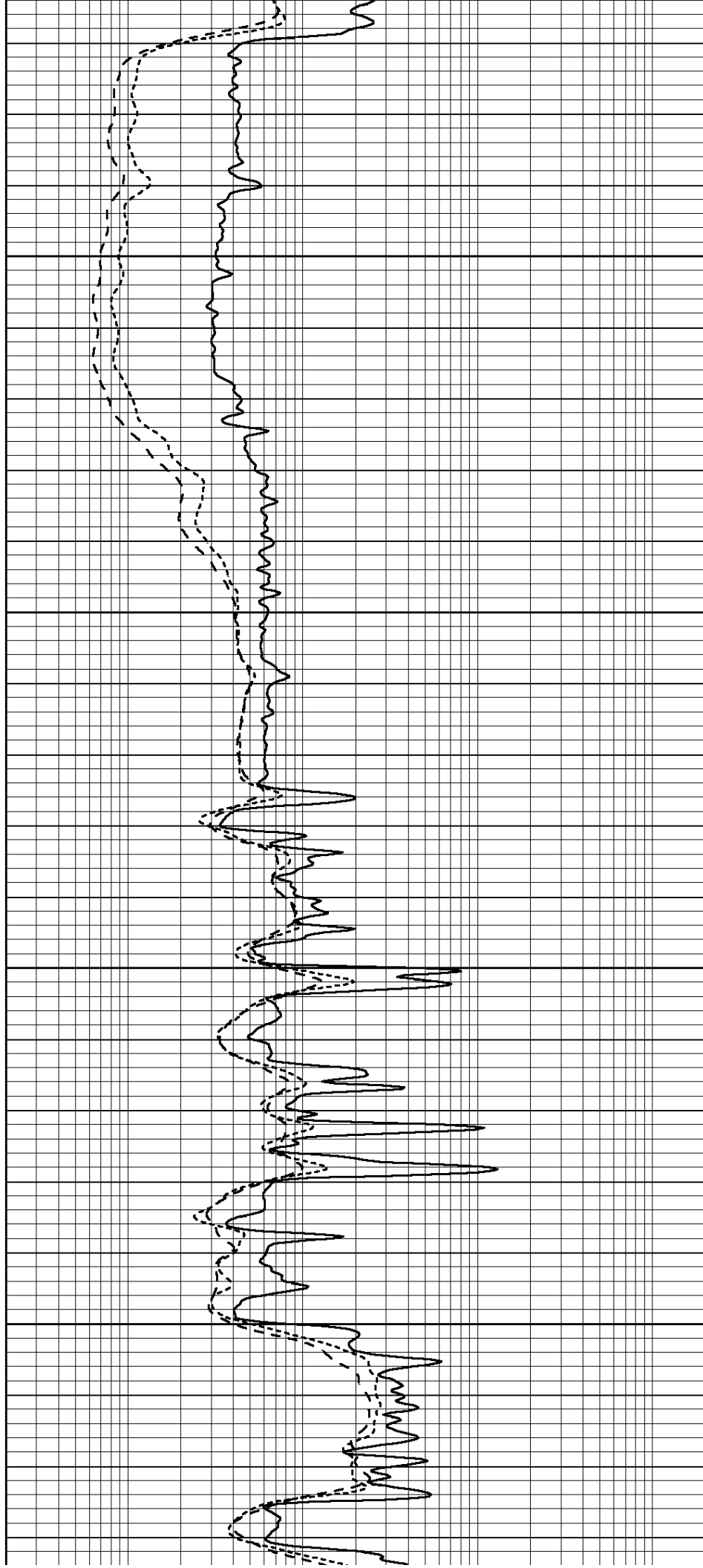


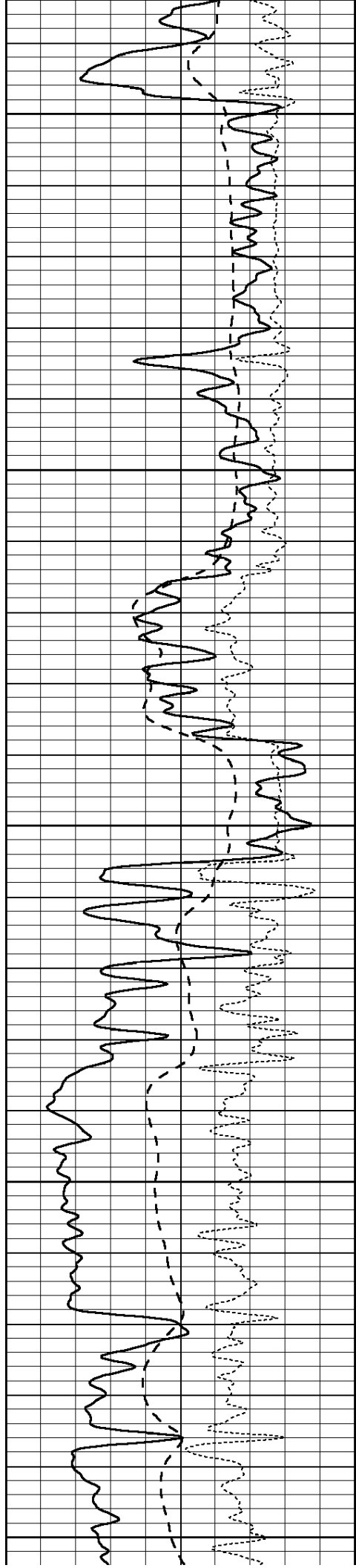
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3500

3550

3600





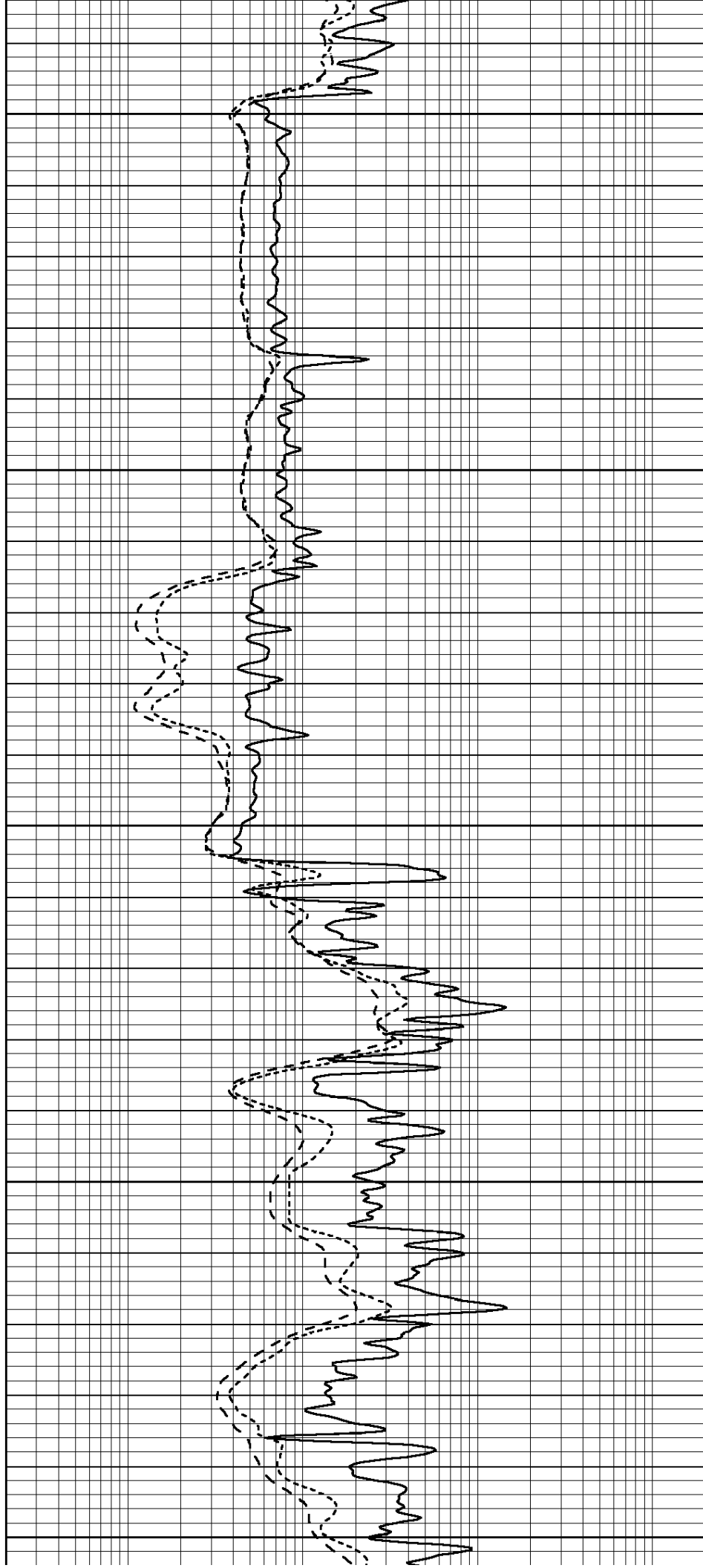
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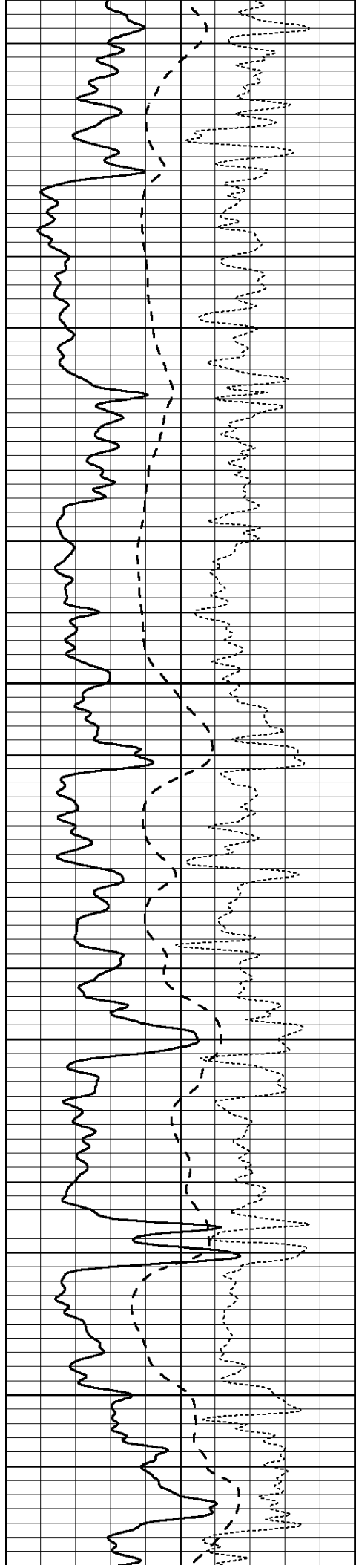
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3800

3850



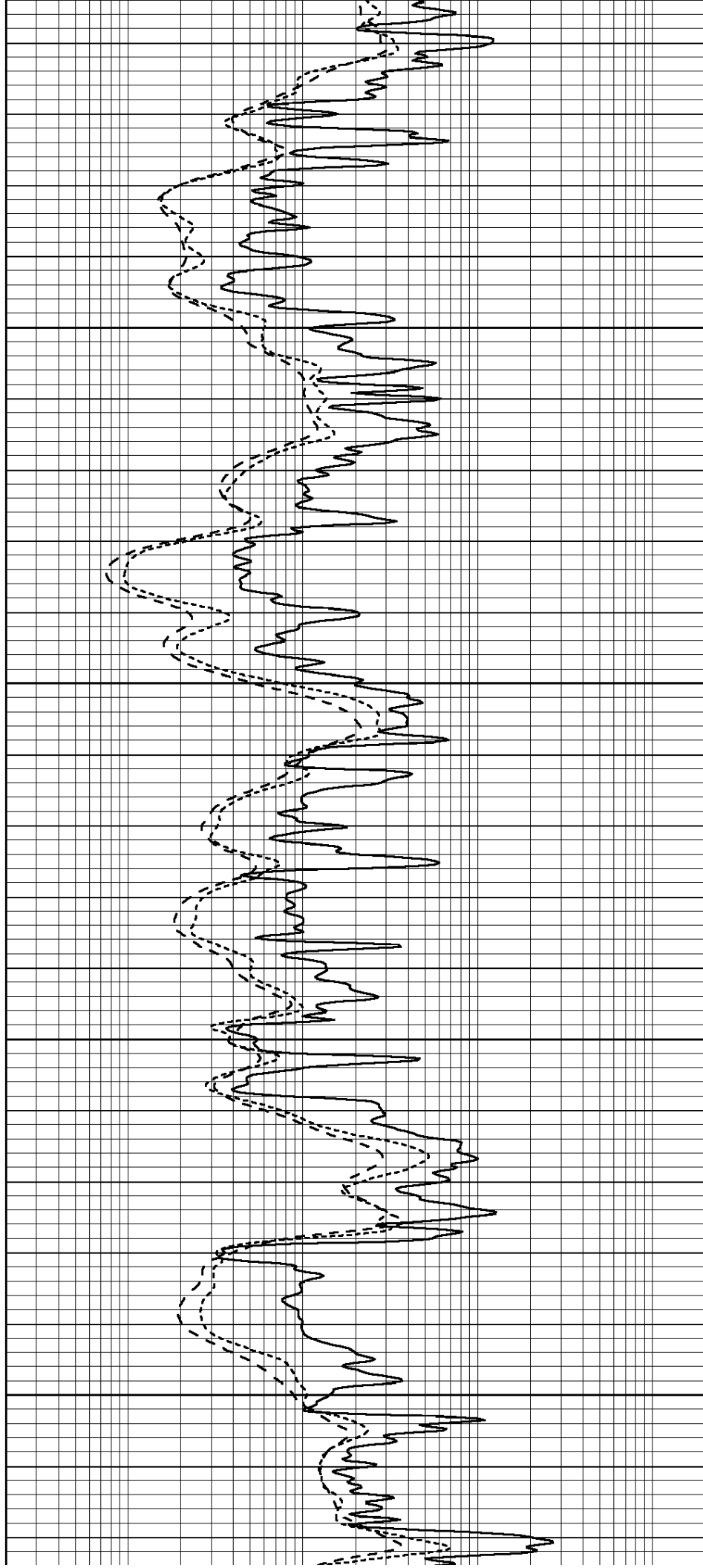


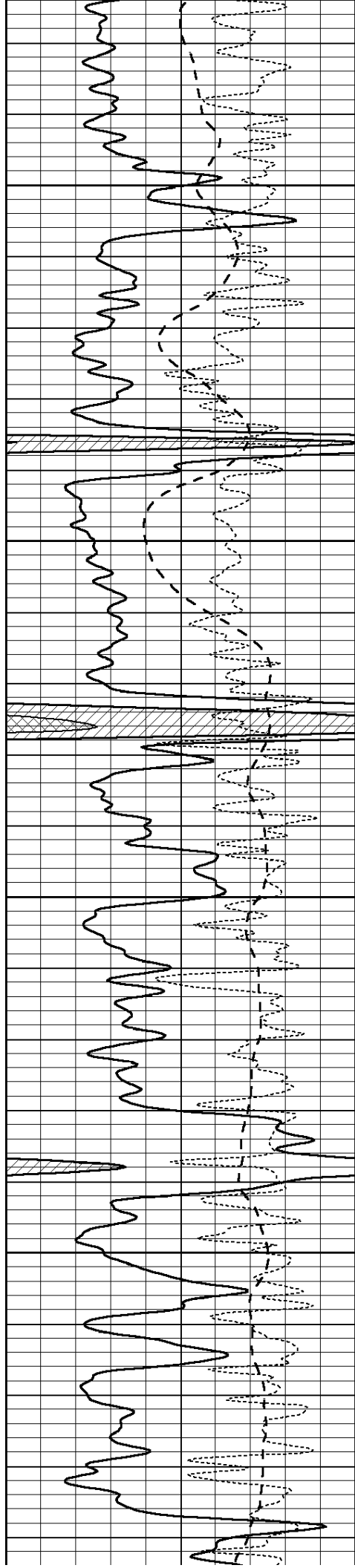
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3950

4000

4050



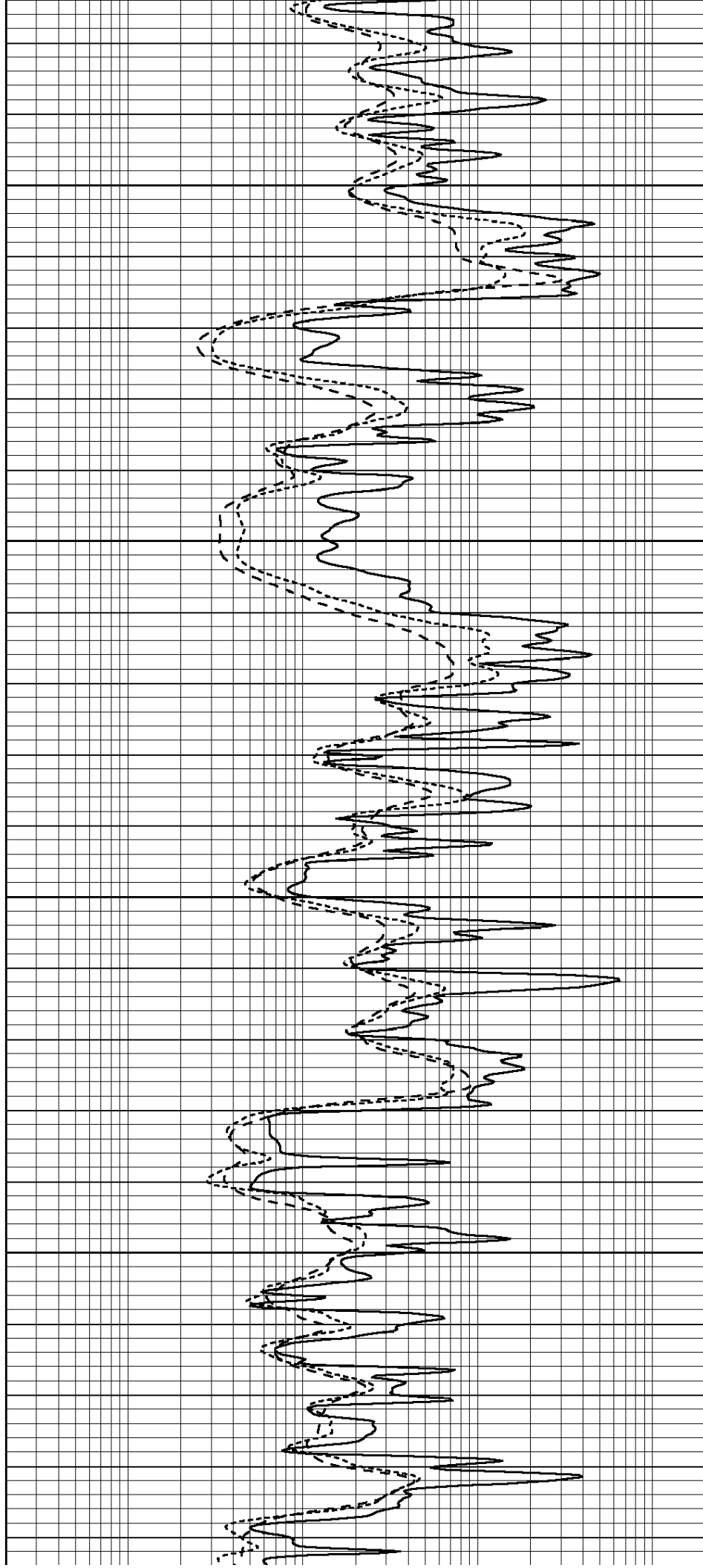


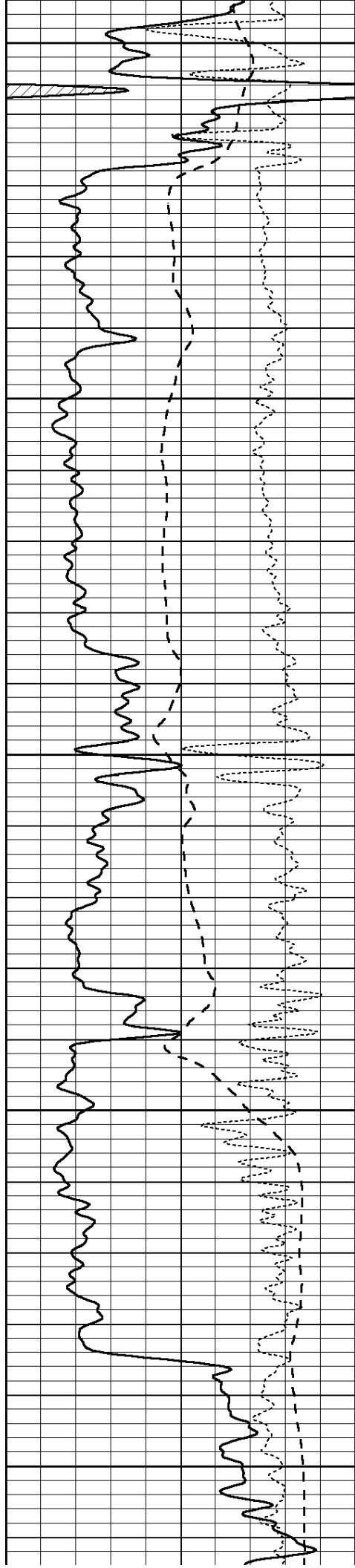
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4250





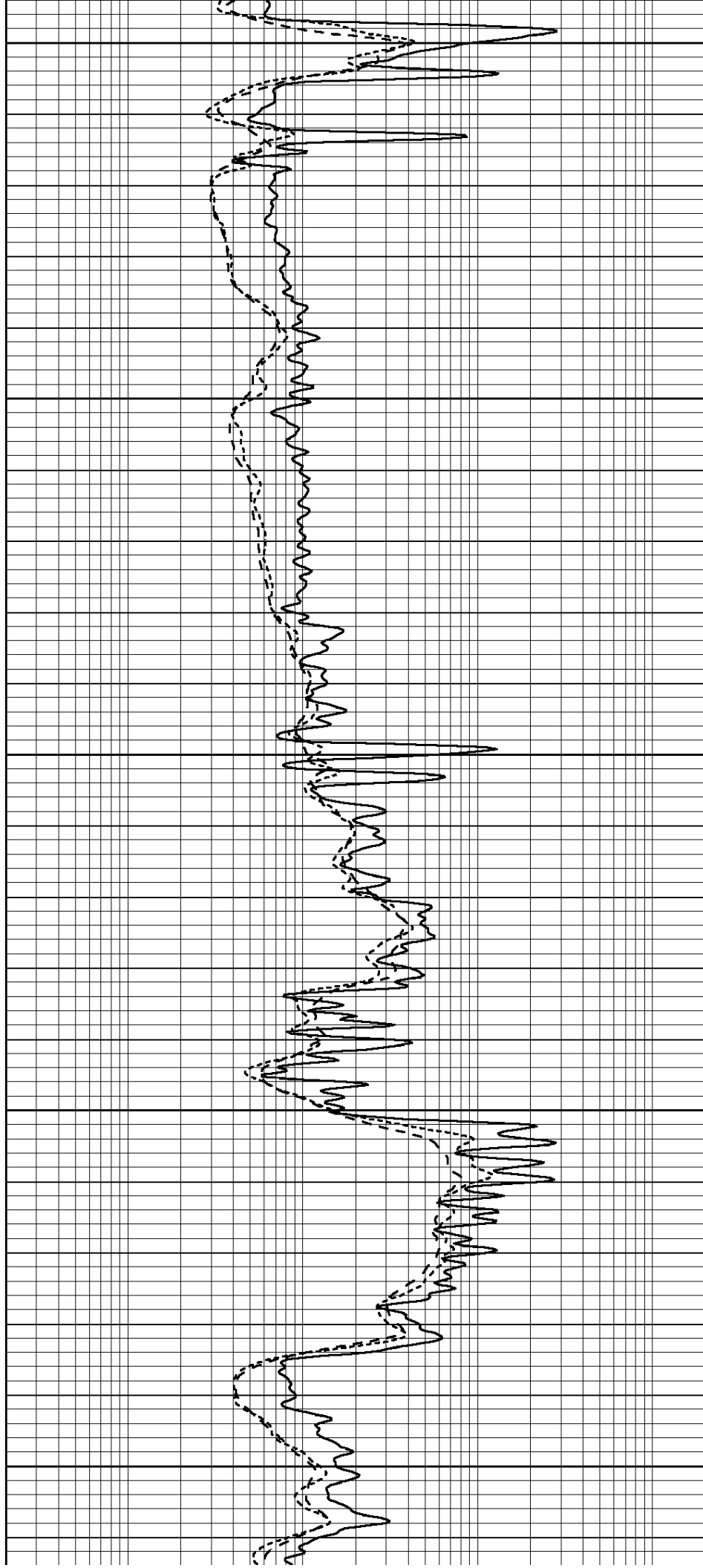
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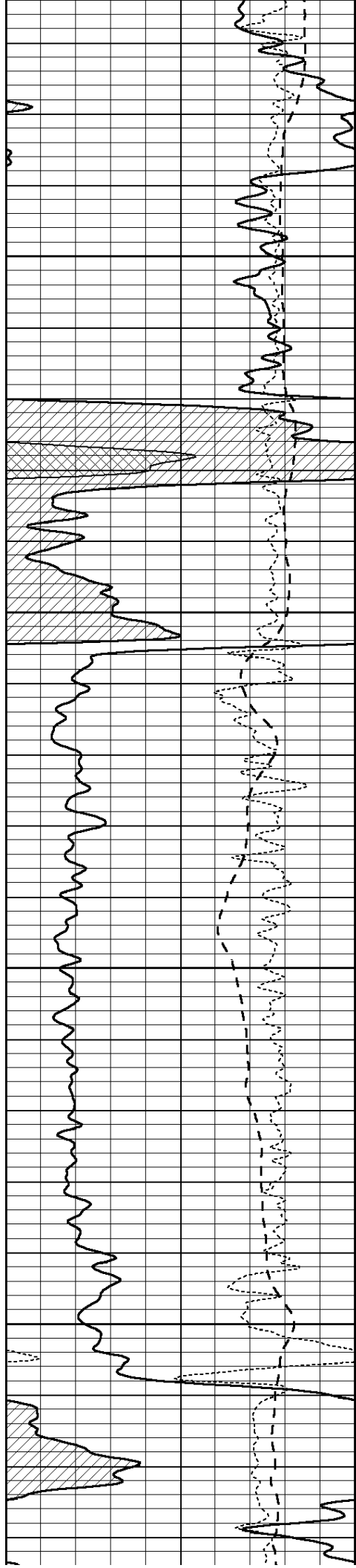
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4500



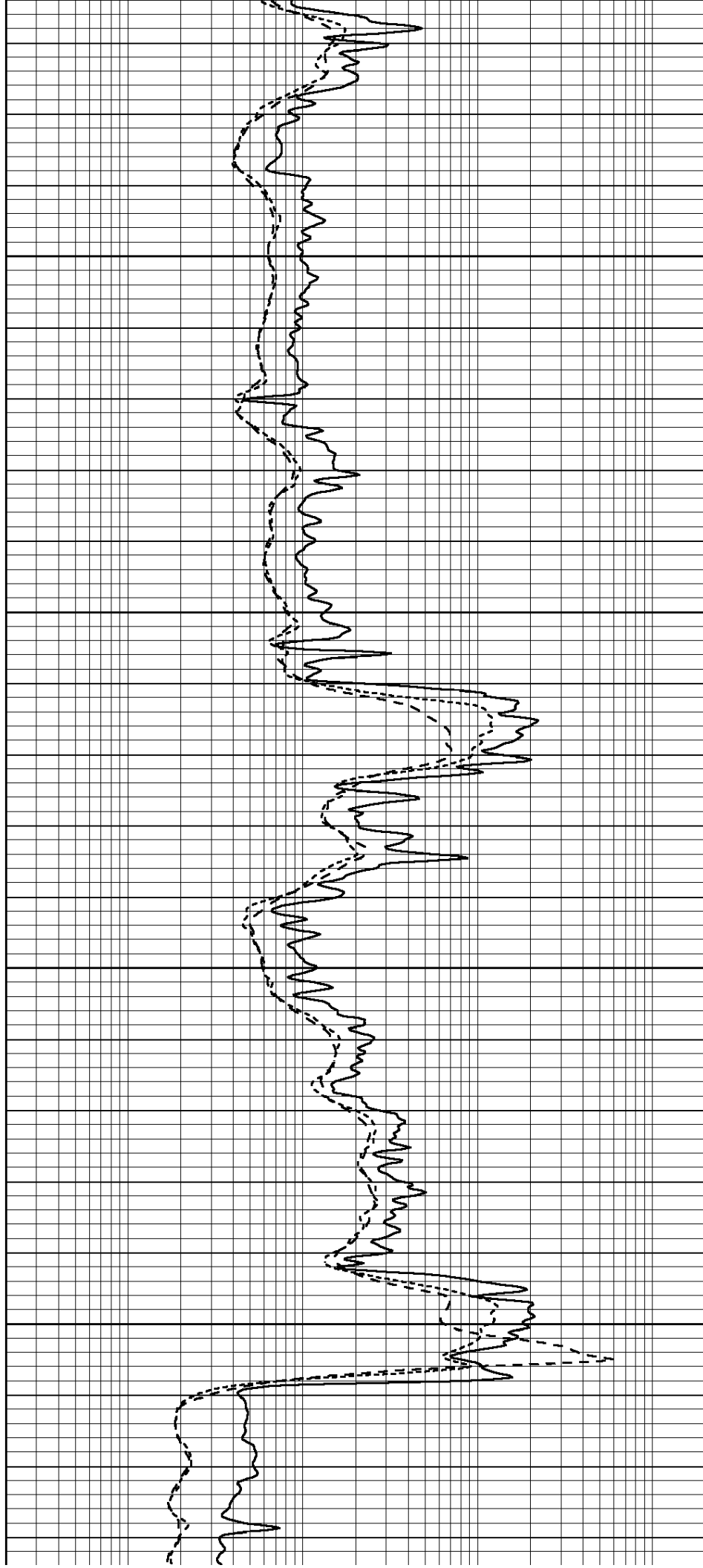


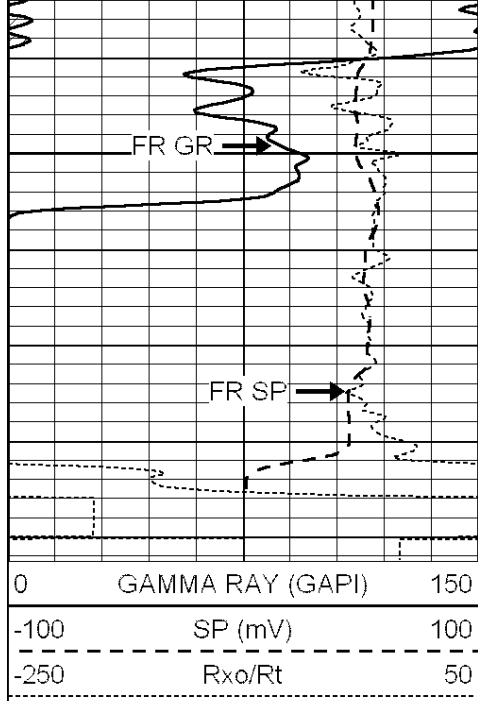
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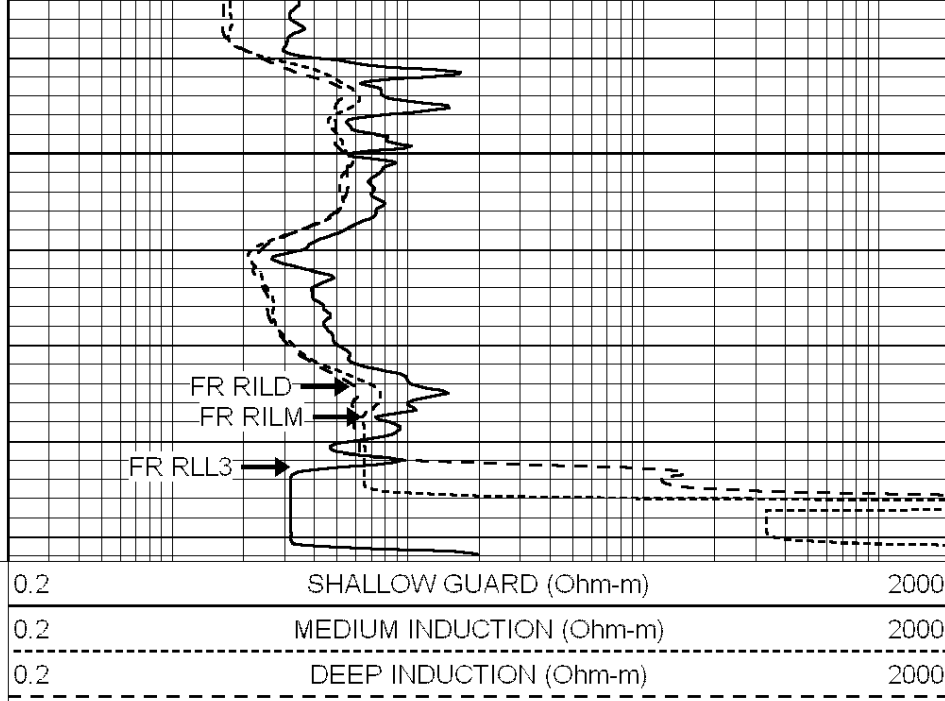




4750

LTD 4785

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



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

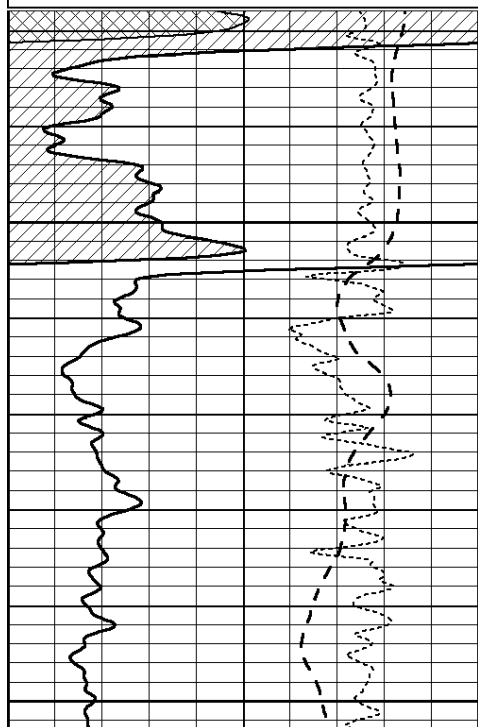


REPEAT SECTION

Database File: 010793pe.db
Dataset Pathname: pass2.1
Presentation Format: _dil
Dataset Creation: Fri May 24 13:35:01 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

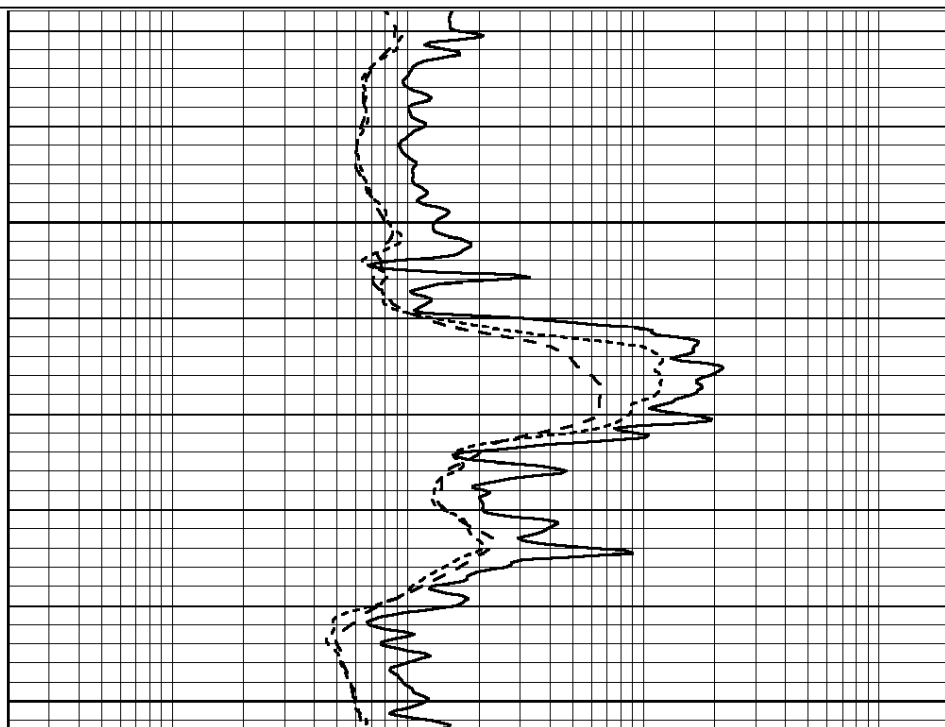
0 GAMMA RAY (GAPI) 150
-100 SP (mV) 100
-250 Rxo/Rt 50

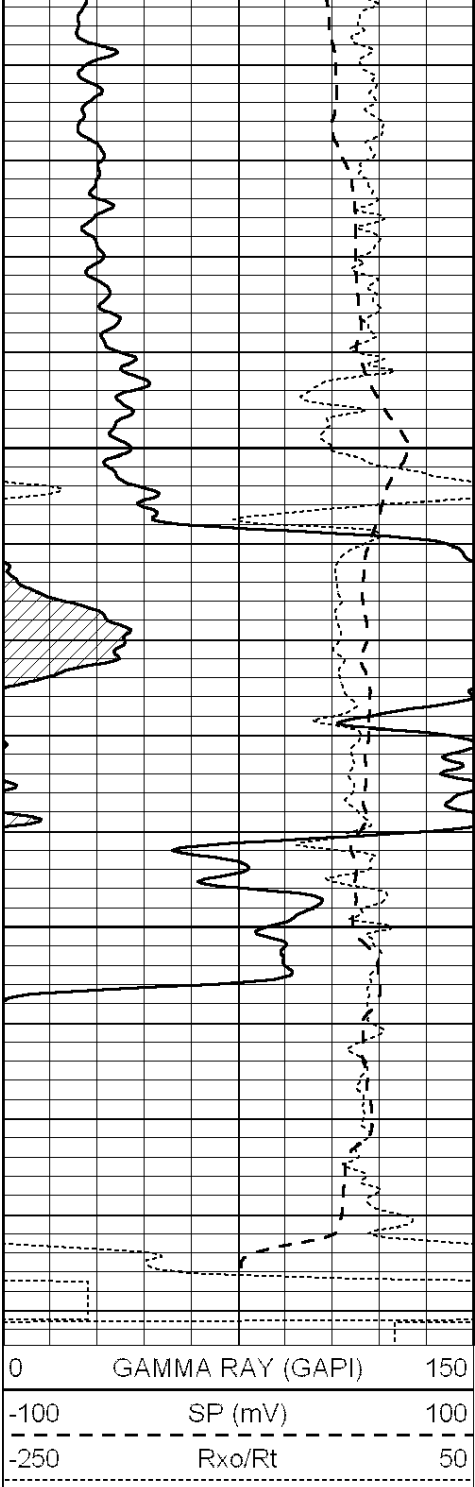
0.2 SHALLOW GUARD (Ohm-m) 2000
0.2 MEDIUM INDUCTION (Ohm-m) 2000
0.2 DEEP INDUCTION (Ohm-m) 2000



4600

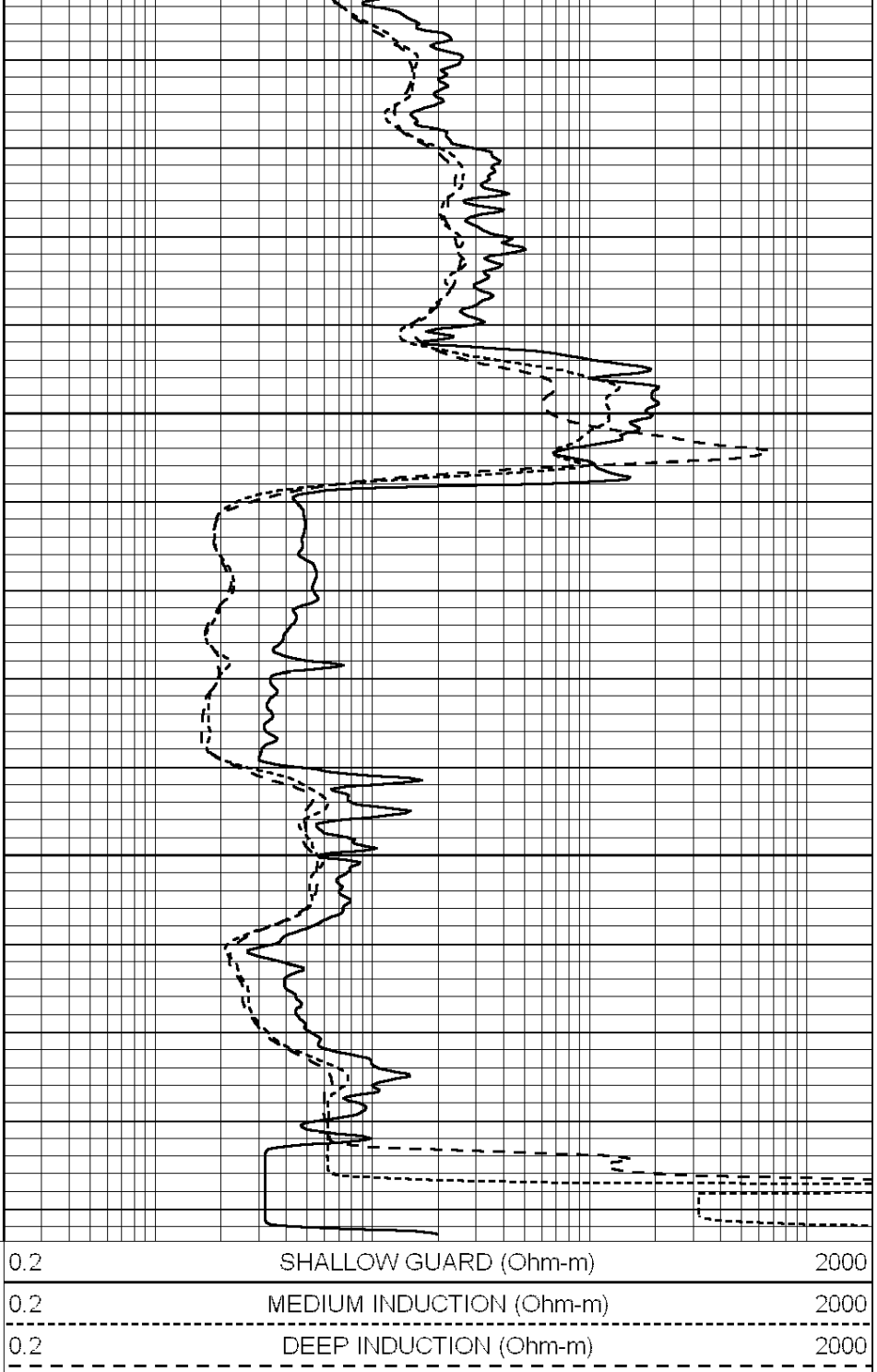
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4700

4750



Calibration Report

Database File: 010793pe.db
Dataset Pathname: pass2.1
Dataset Creation: Fri May 24 13:35:01 2013 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		
		-7.200	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		

Litho Density Calibration Report								
Serial: 001 Model: PRB								
Performed Thu Sep 17 09:57:21 2009								

Litho Density Calibration								
	Background		Magnesium		Aluminum		Sandstone	
Window 1	2056.0		9796.8		3673.1		10821.3	
Window 2	1920.0		8541.1		3303.5		9307.2	
Window 3	1563.1		4735.7		2212.8		5017.5	
Window 4	466.0		466.1		465.6		471.5	
Long Space	0.0		6621.1		1383.5		7387.2	
Short Space	2.5		2361.7		1523.2		2534.0	
Rho			1.7100		2.5900		1.3800	
Pe					2.5700		1.5500	
Rib Angle	: 44.4		Rib Slope	: 0.978		Density/Spine Ratio	: 0.541	
Spine Angle	: 74.4		Spine Slope	: 3.570		Spine Intercept	: -18.9	

Caliper								
	Readings		Reference					
Low Ref	3.1		8.4					
High Ref	4.3		14.3					
	Gain: 4.6		Offset: -7.3					

Compensated Neutron Calibration Report								
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Serial Number: 6I								
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:	#8	
Tool Model:	OPEN	
Performed:	Mon Jun 13 16:56:43 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps