



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company PELICAN HILL OIL & GAS, INC.
Well NELSON #5-16
Field WILDCAT
County TREGO State KANSAS

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Well NELSON #5-16
Field WILDCAT
County TREGO
State KANSAS

Location: API #: 15-195-22738-0000
1556' FSL & 1437' FEL
SE - SE - NW - SE
SEC 16 TWP 11S RGE 21W
Permanent Datum GROUND LEVEL Elevation 2233
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL/PE
SON/FRAC/MEEL
Elevation
K.B. 2241
D.F. 2239
G.L. 2233

Date	11-12-11
Run Number	ONE
Depth Driller	3925
Depth Logger	3928
Bottom Logged Interval	3926
Top Log Interval	0
Casing Driller	265
Casing Logger	274
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.4 / 45
pH / Fluid Loss	10.5 / 8.8
Source of Sample	FLOWLINE
Rim @ Meas. Temp	0.55 @ 83F
Rmf @ Meas. Temp	0.41 @ 83F
Rmc @ Meas. Temp	0.66 @ 83F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	0.39 @ 115F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	115F
Equipment Number	860
Location	HAYS, KS.
Recorded By	JEFF GRONEWEG
Witnessed By	MARC DOWNING

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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.

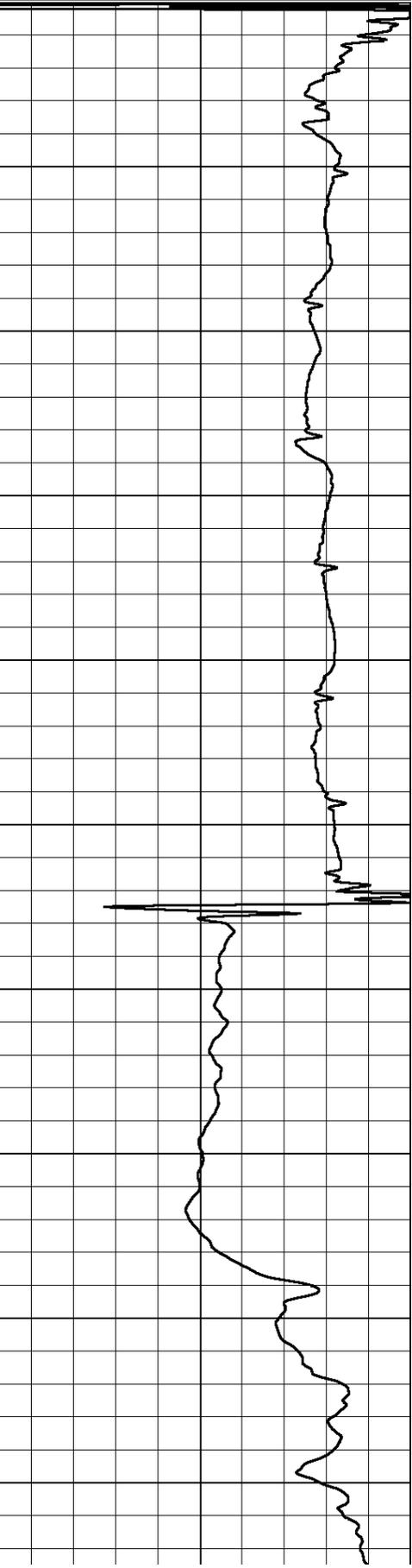
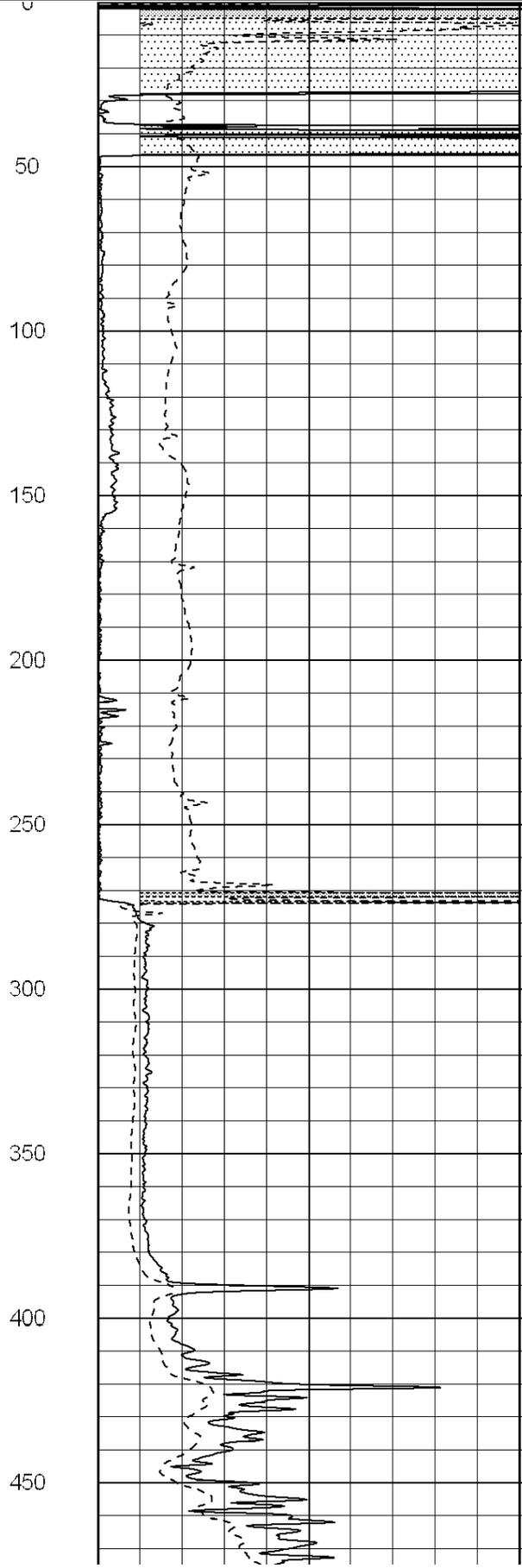
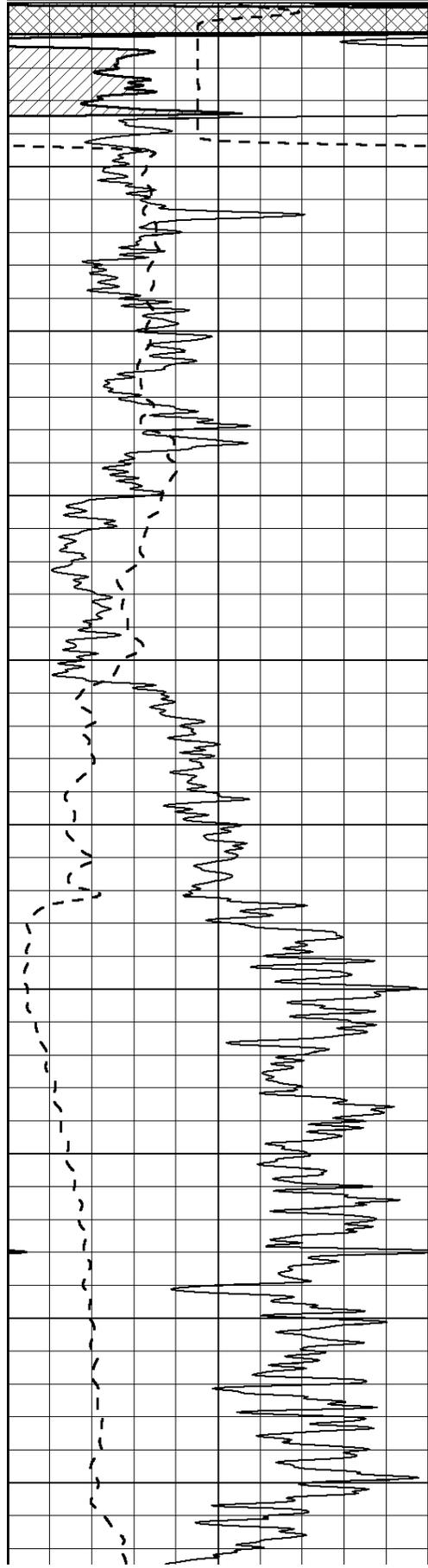
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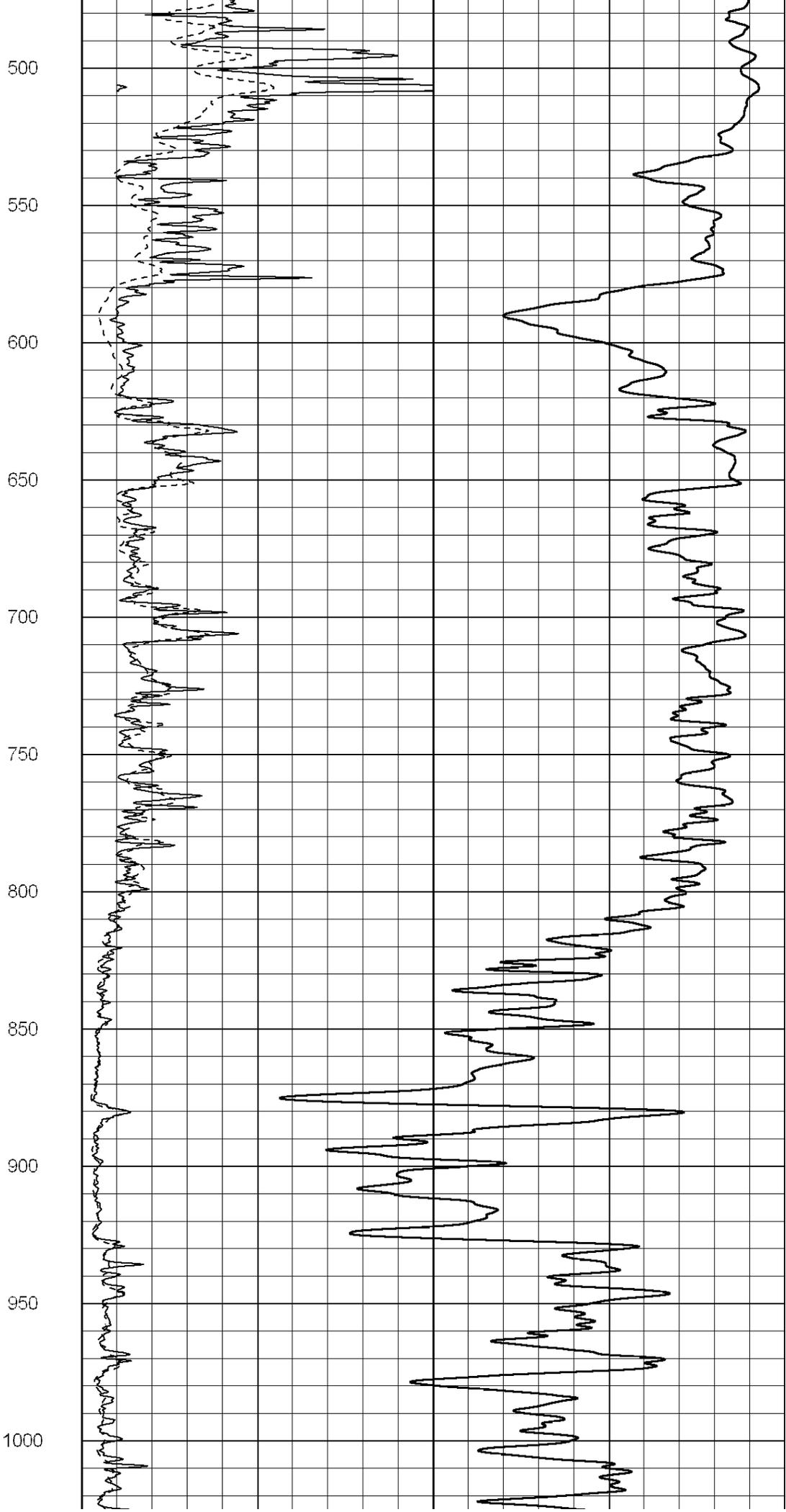
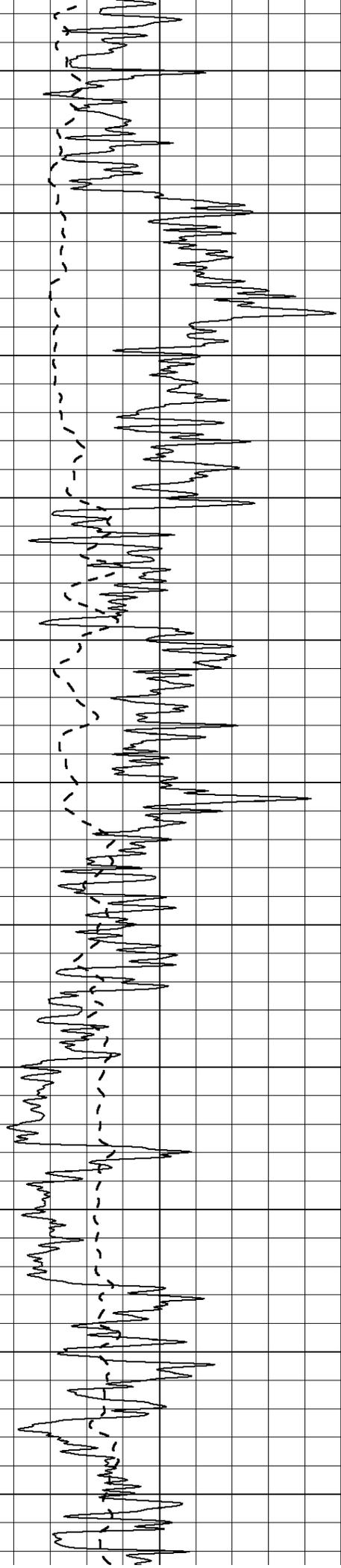
SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: I-70 & RIGA EXIT - 8.5 MILES NORTH - WEST INTO

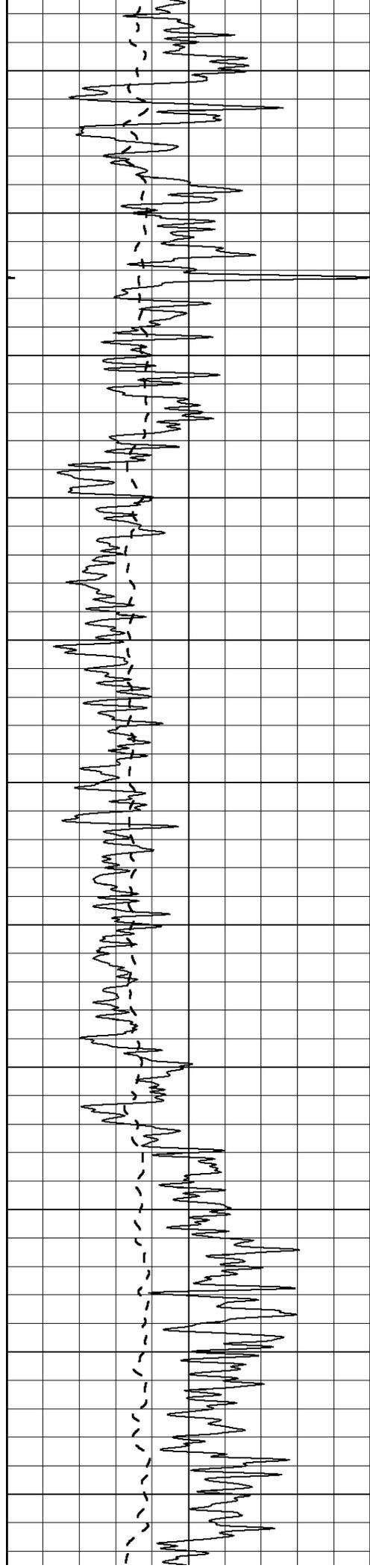
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-100	SP (mV)	100

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

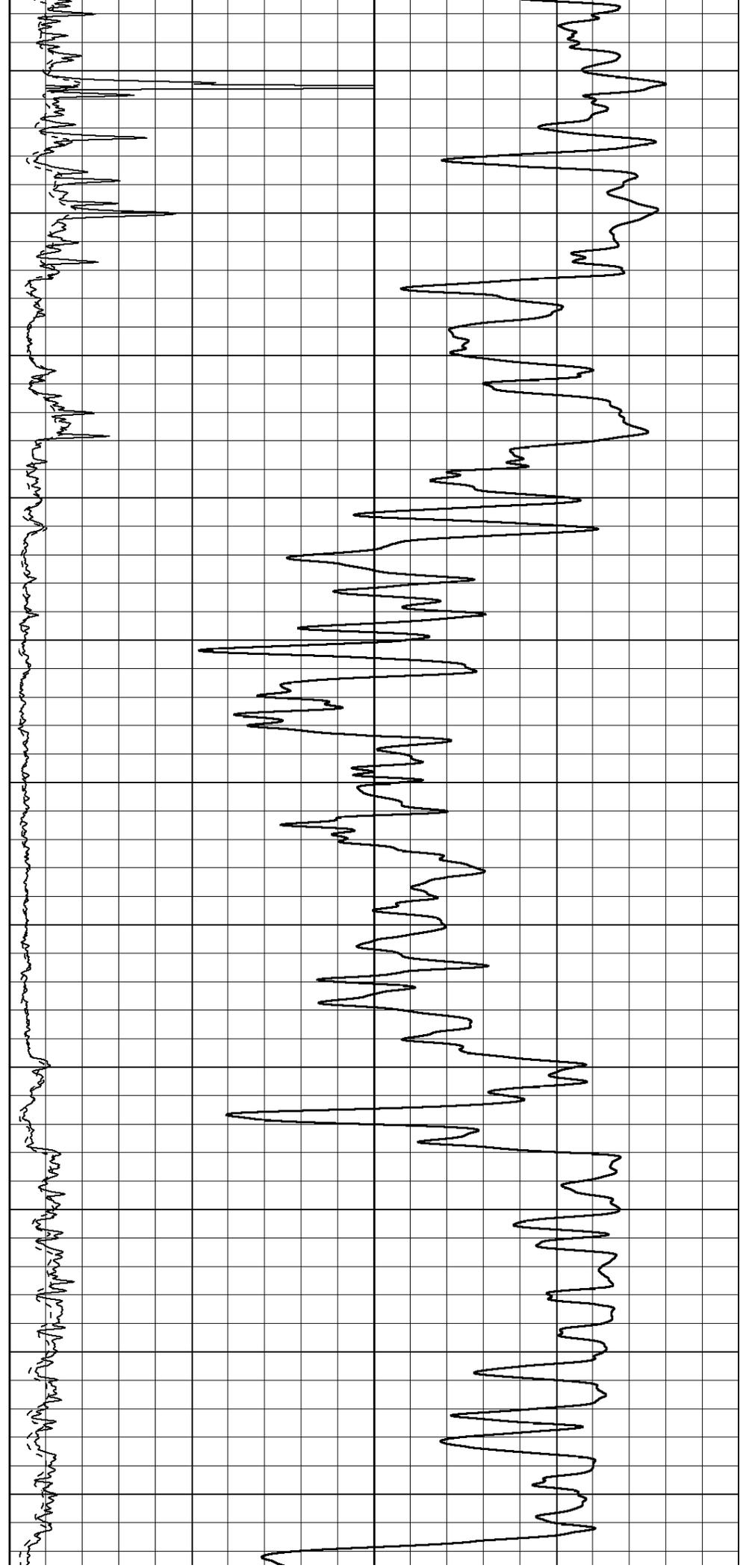
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

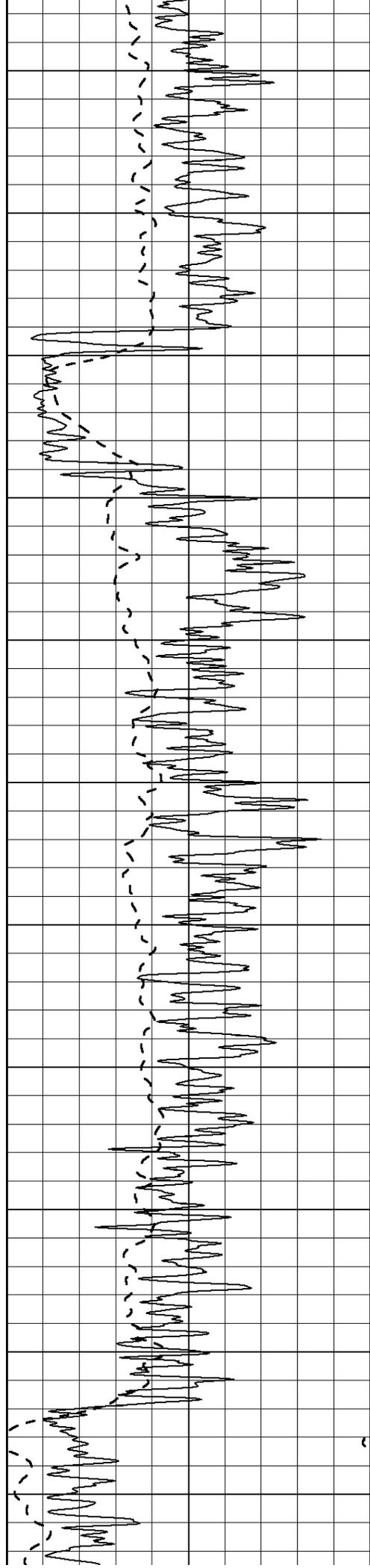




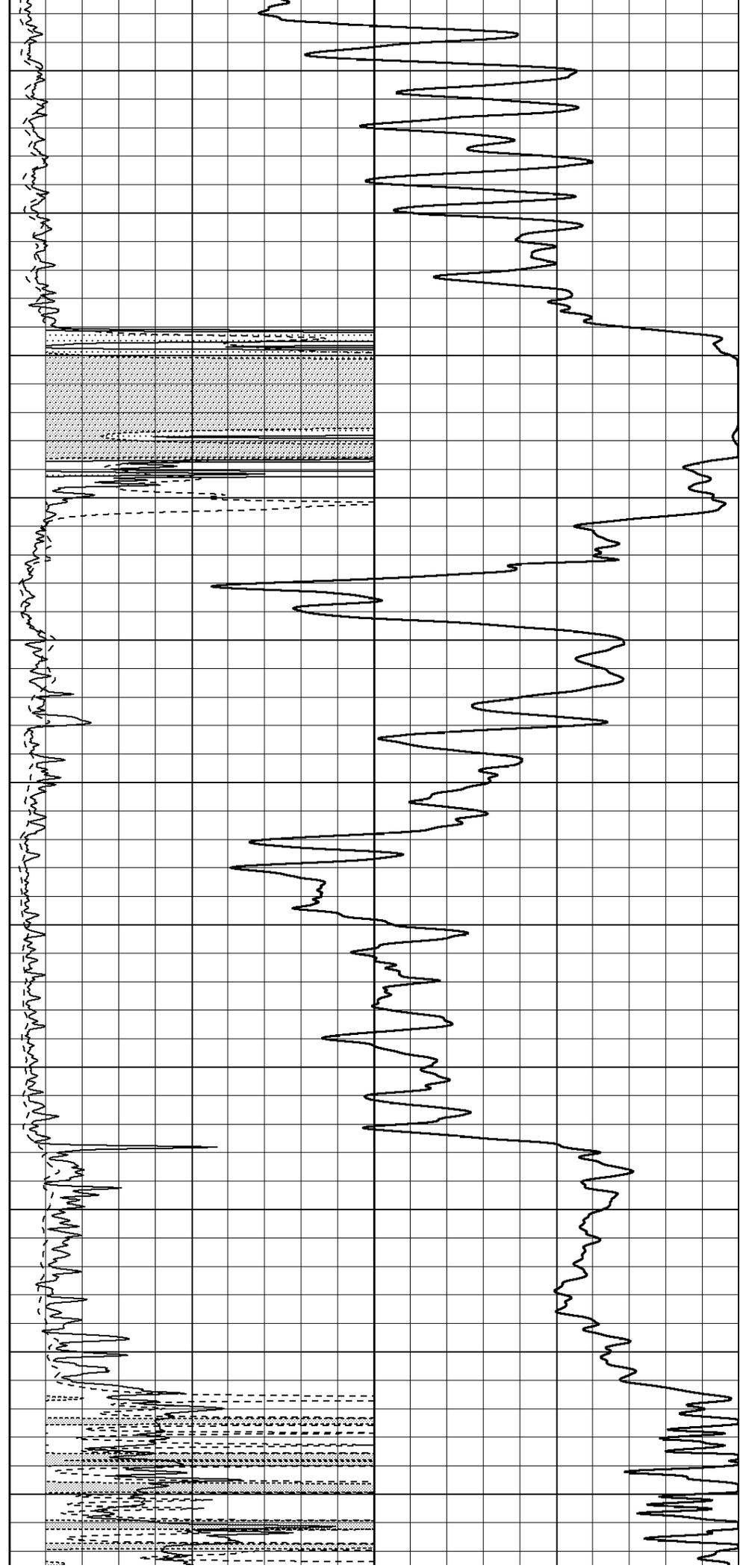


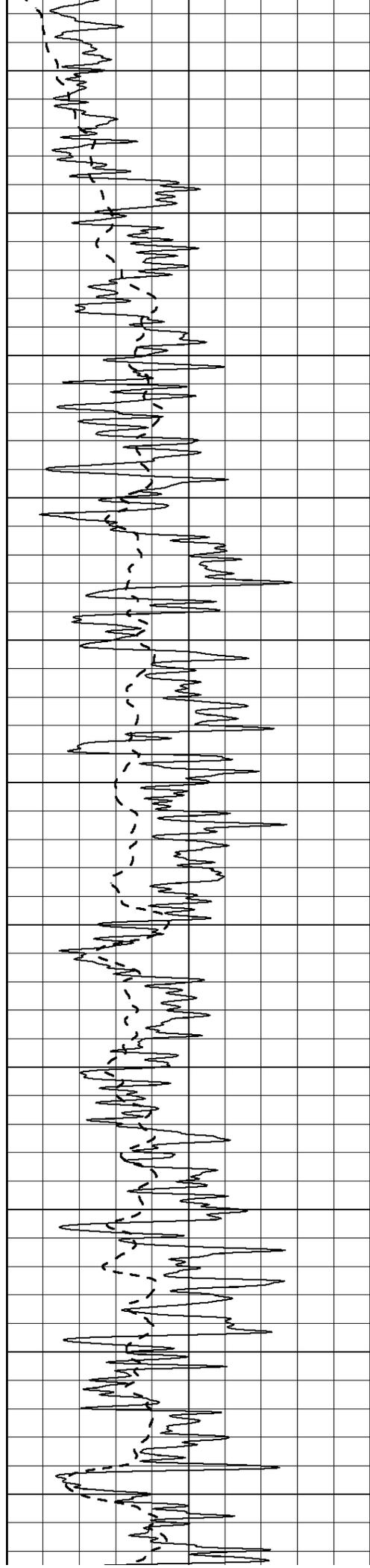
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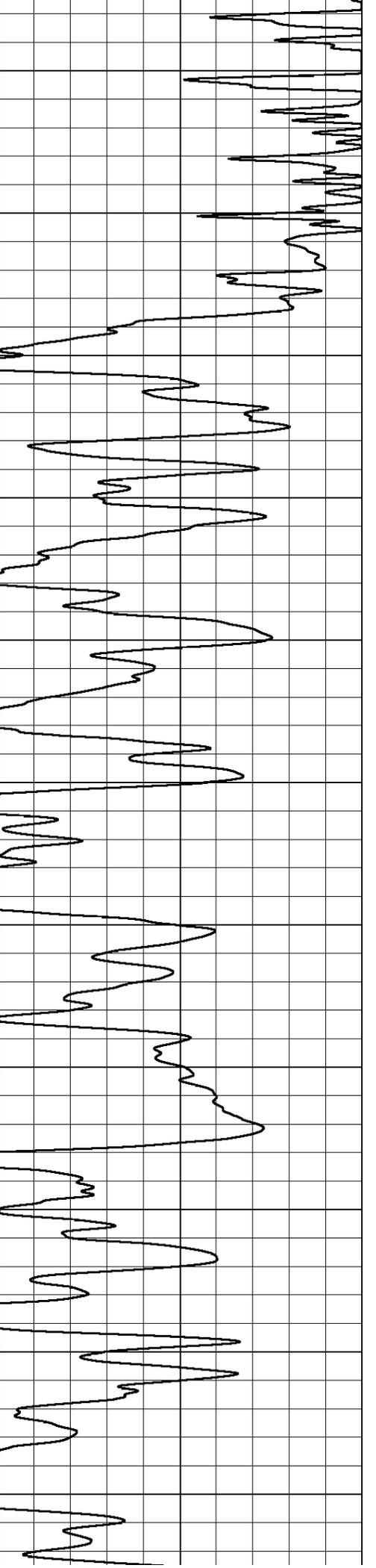
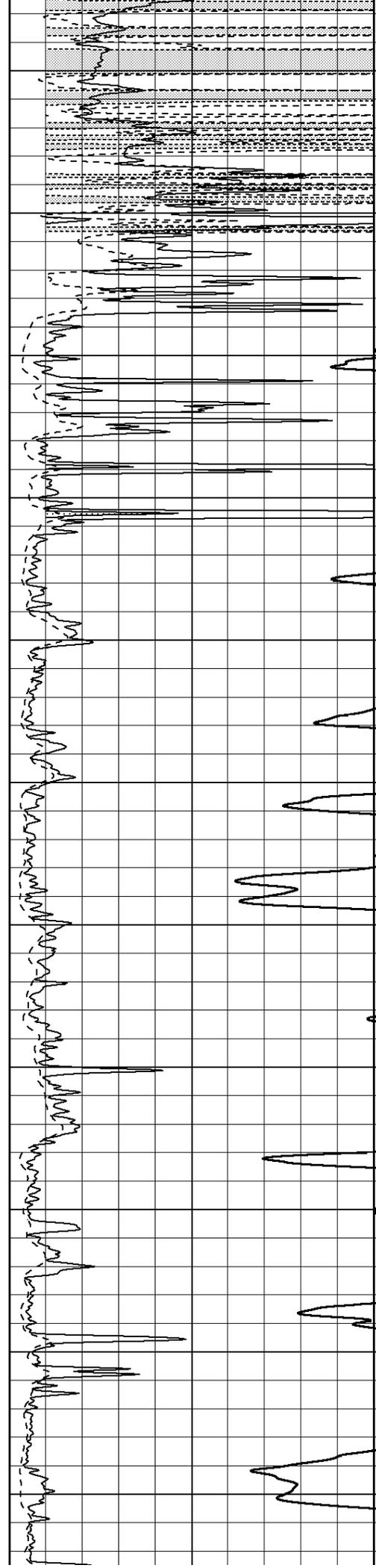


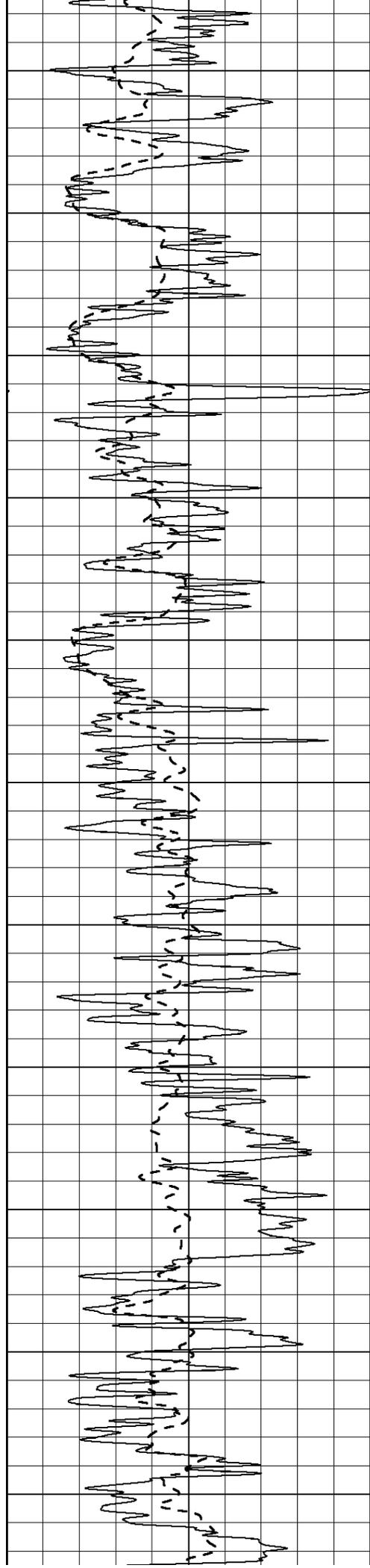
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2150
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2650





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2800

2850

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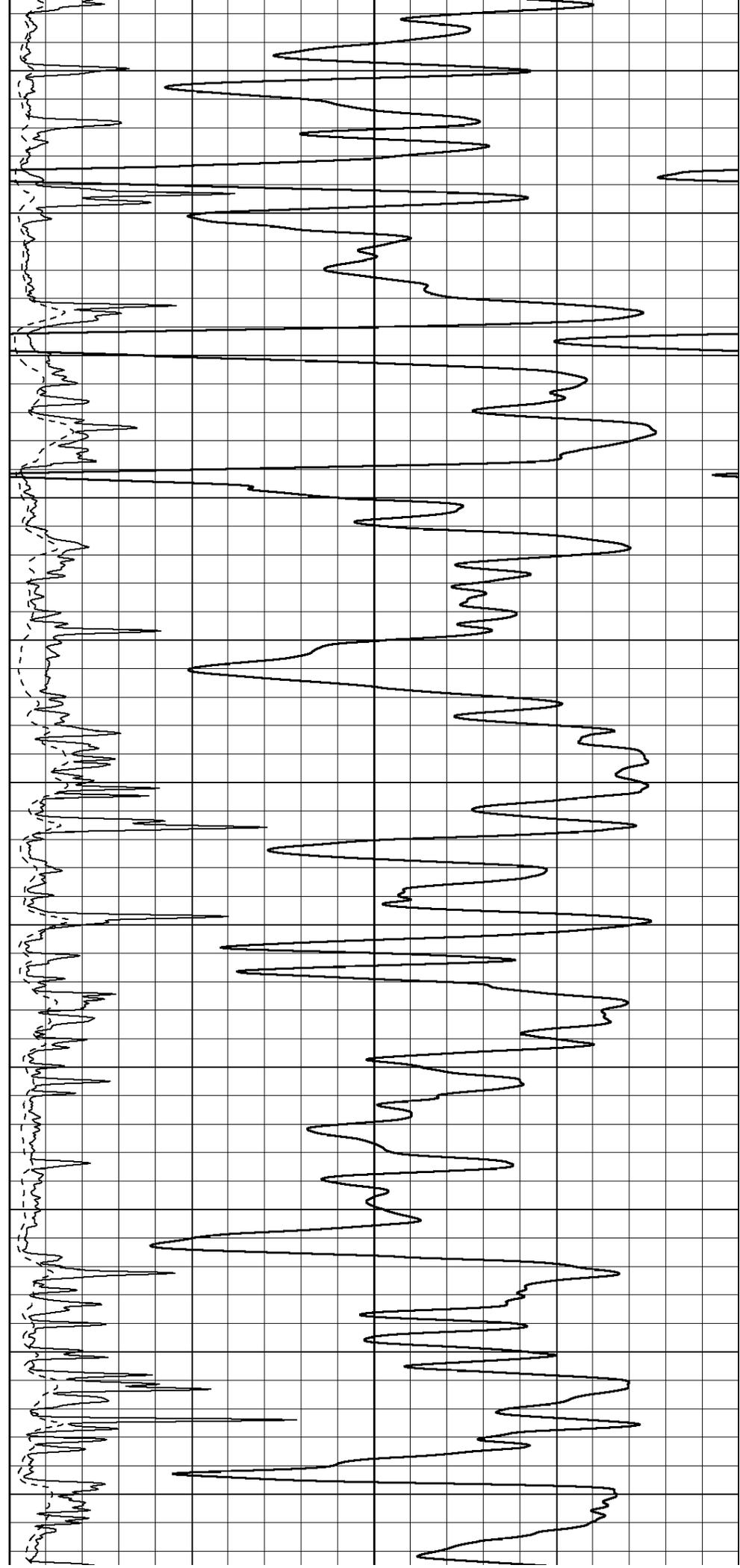
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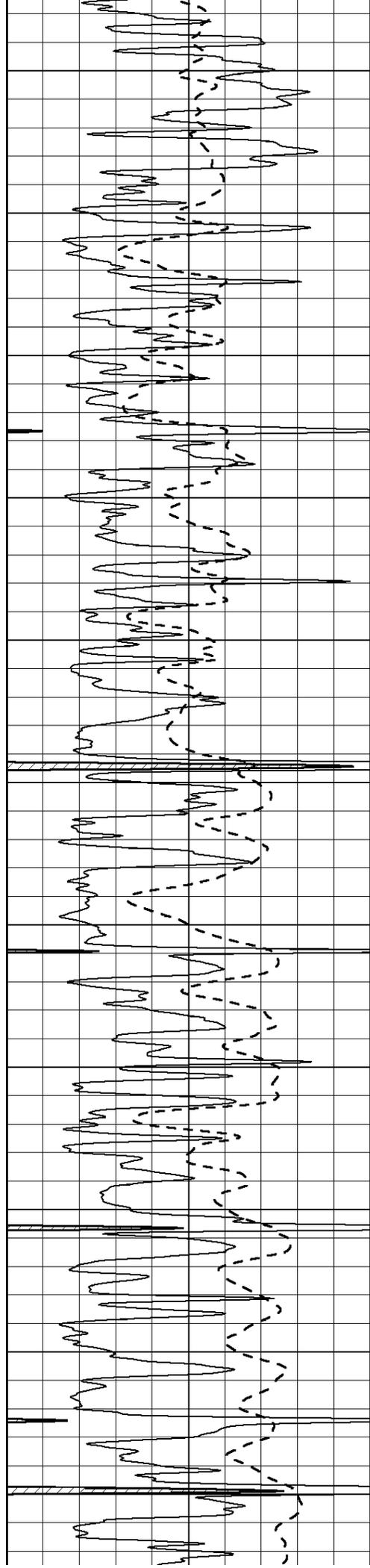
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3100

3150

3200





3250

3300

3350

3400

3450

3500

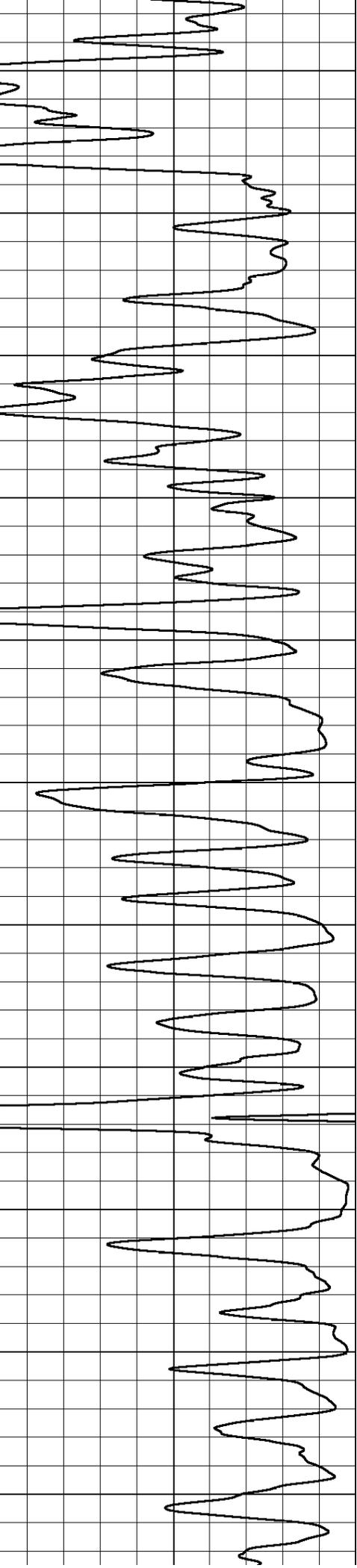
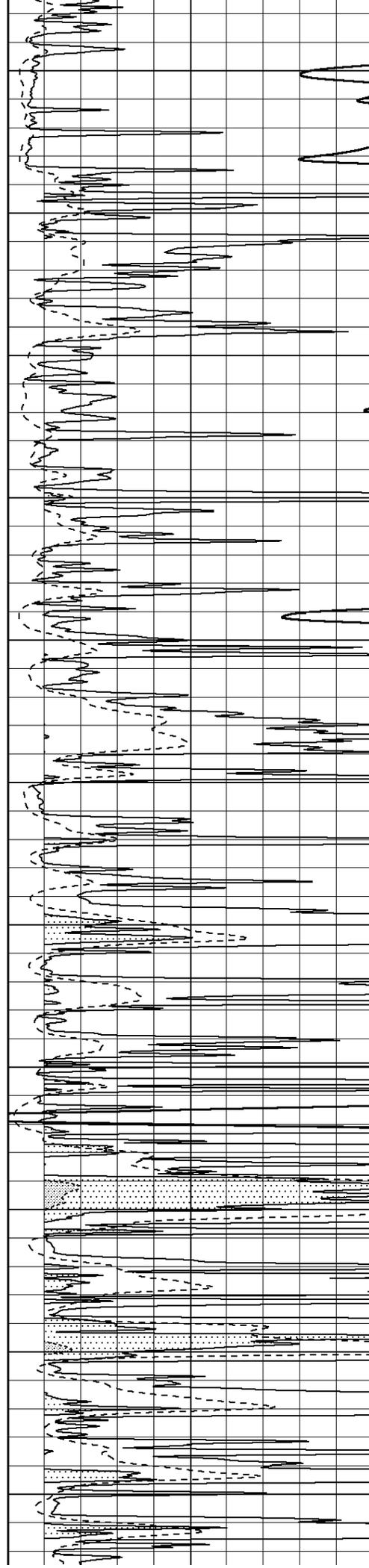
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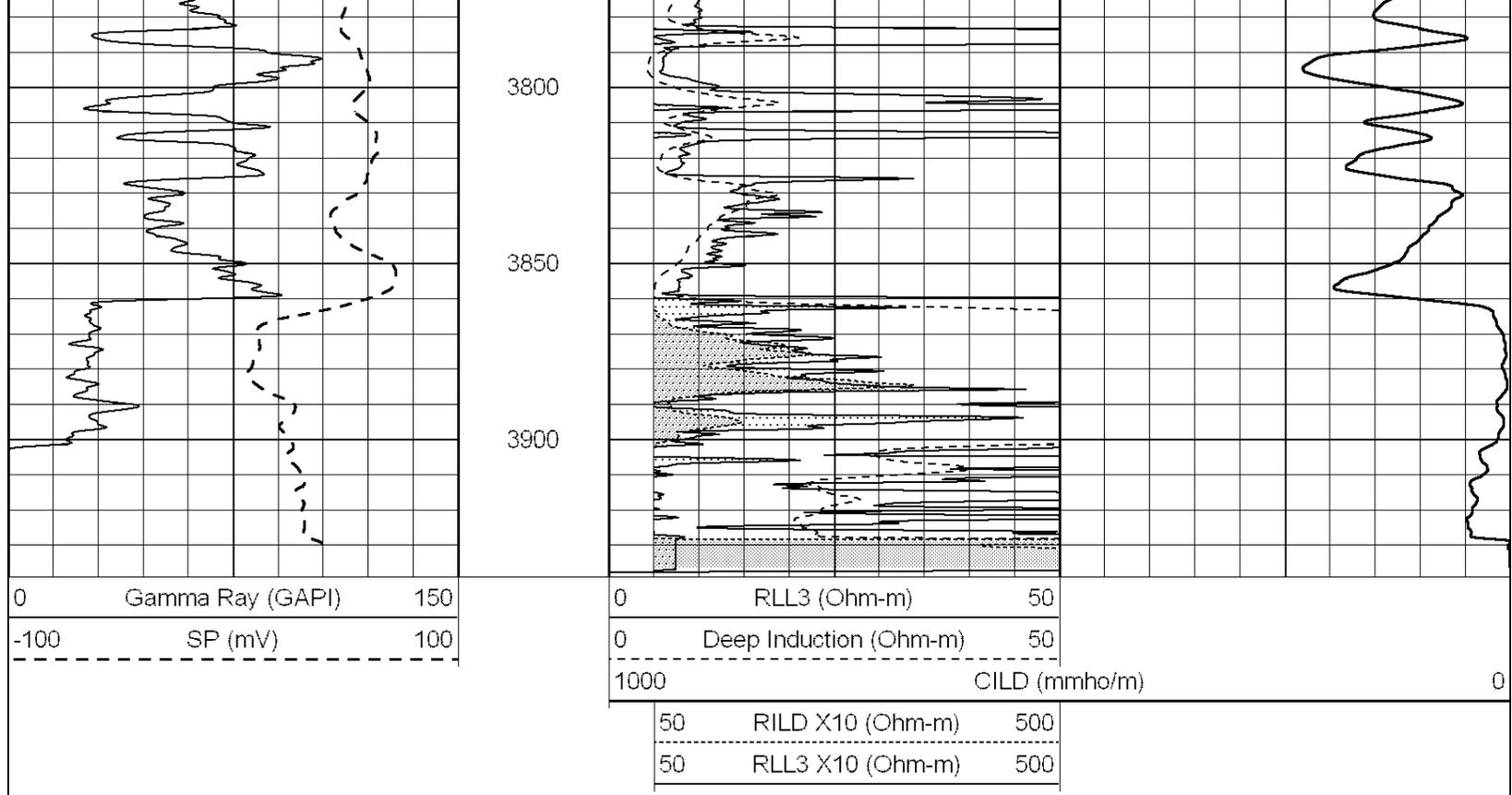
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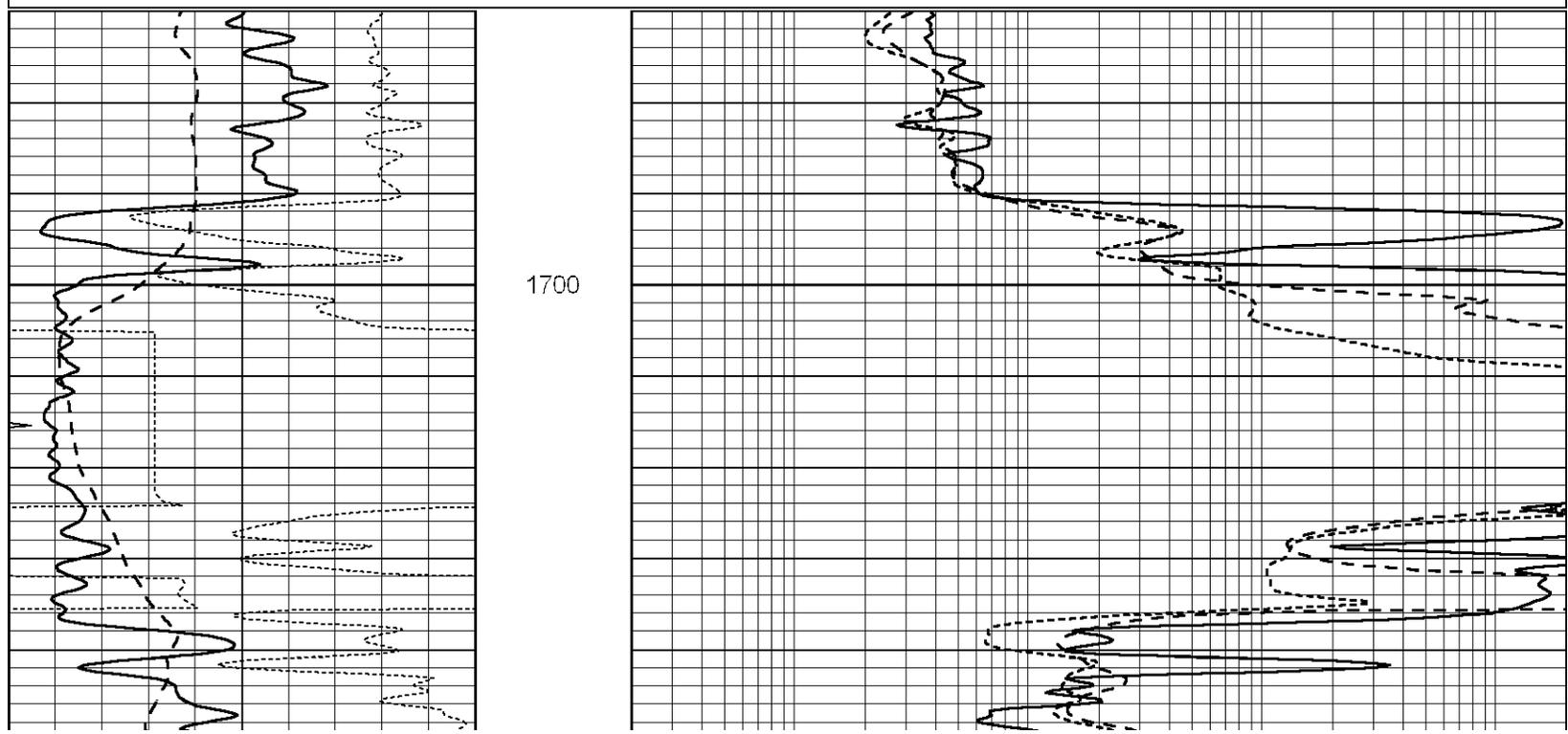
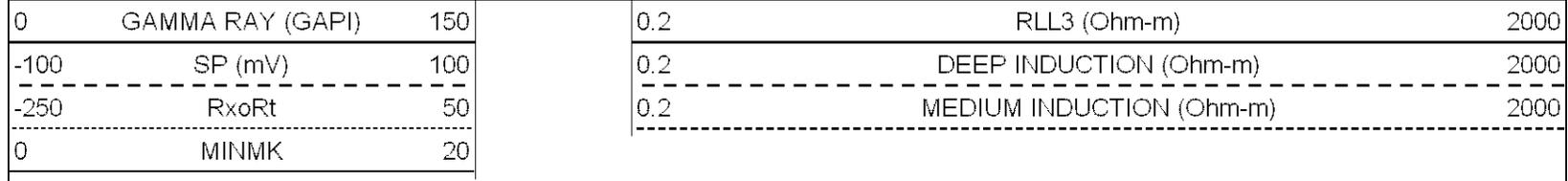
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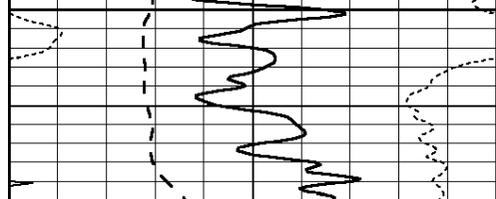




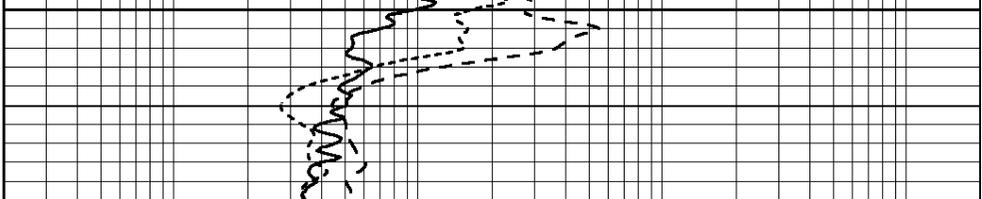
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 Presentation Format: dil
 Dataset Creation: Sat Nov 12 09:26:43 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



1750



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

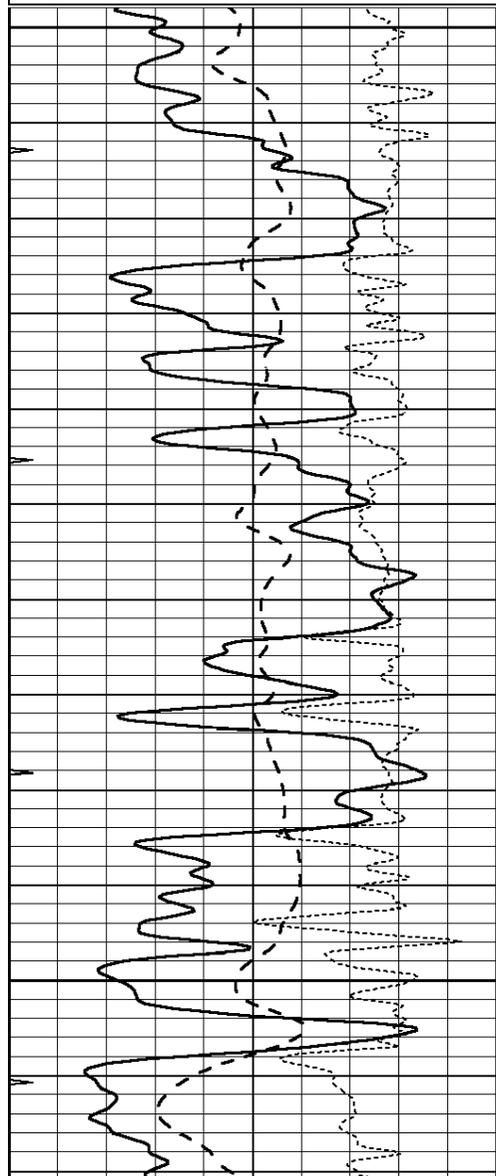


0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

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

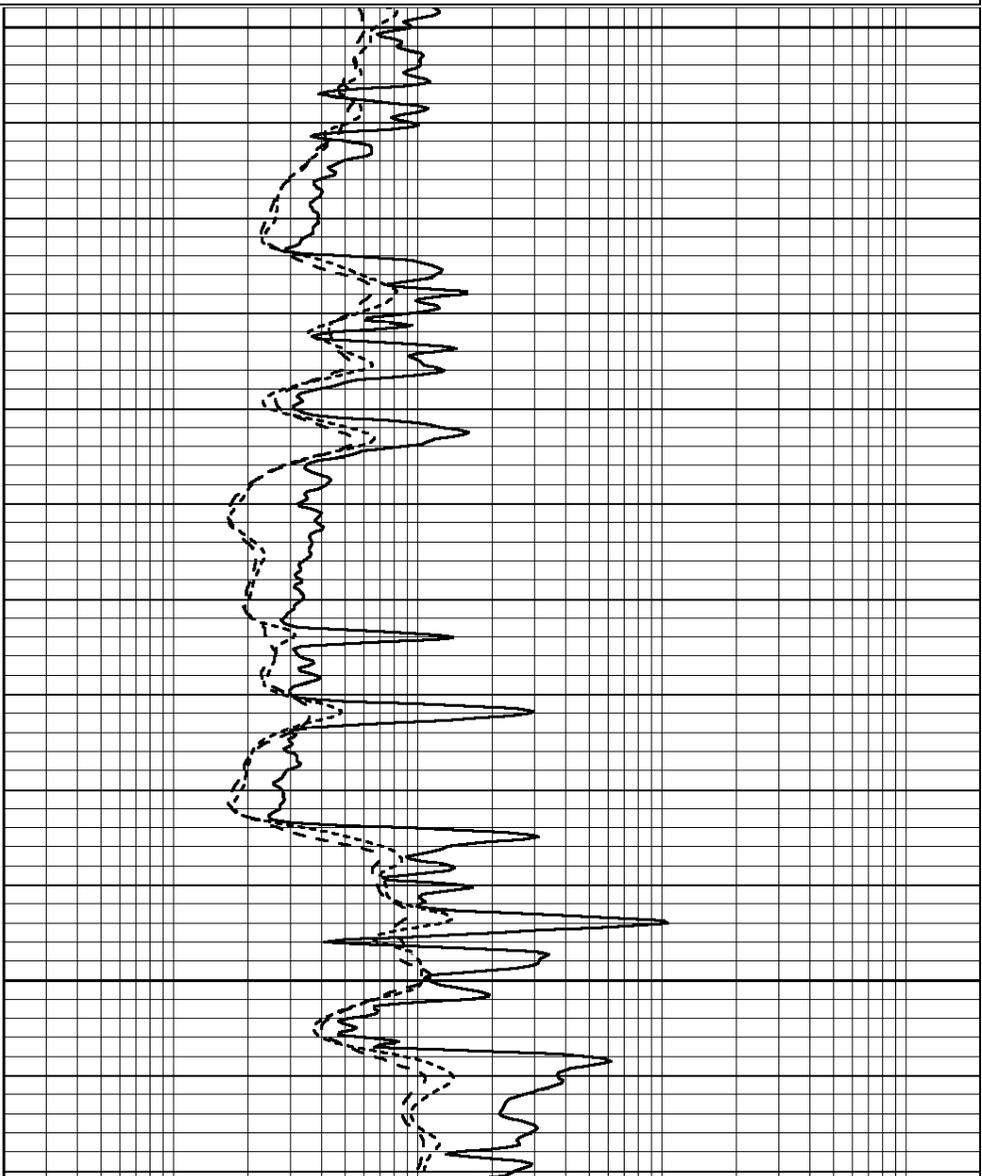
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

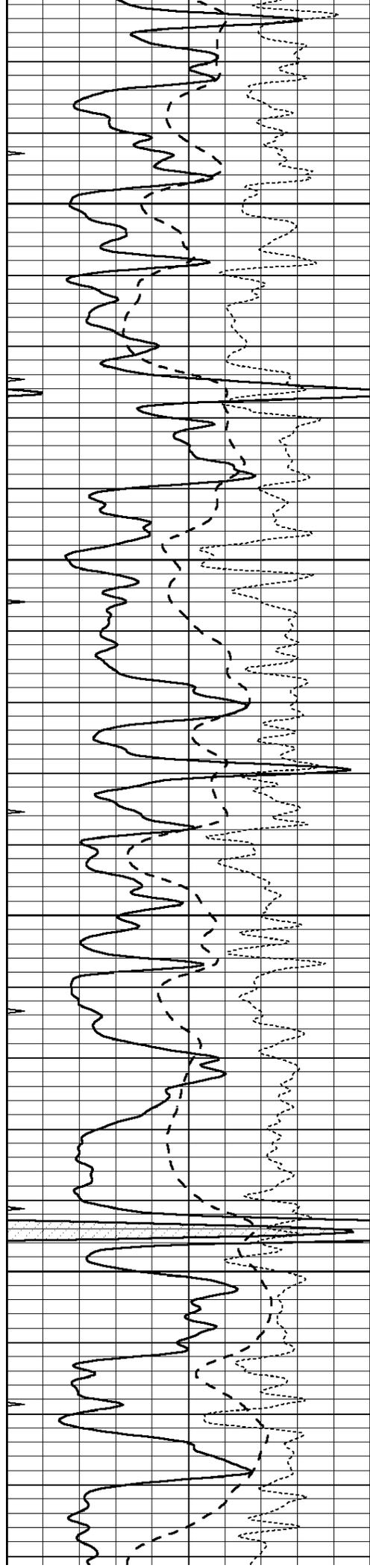


3200

3250

3300



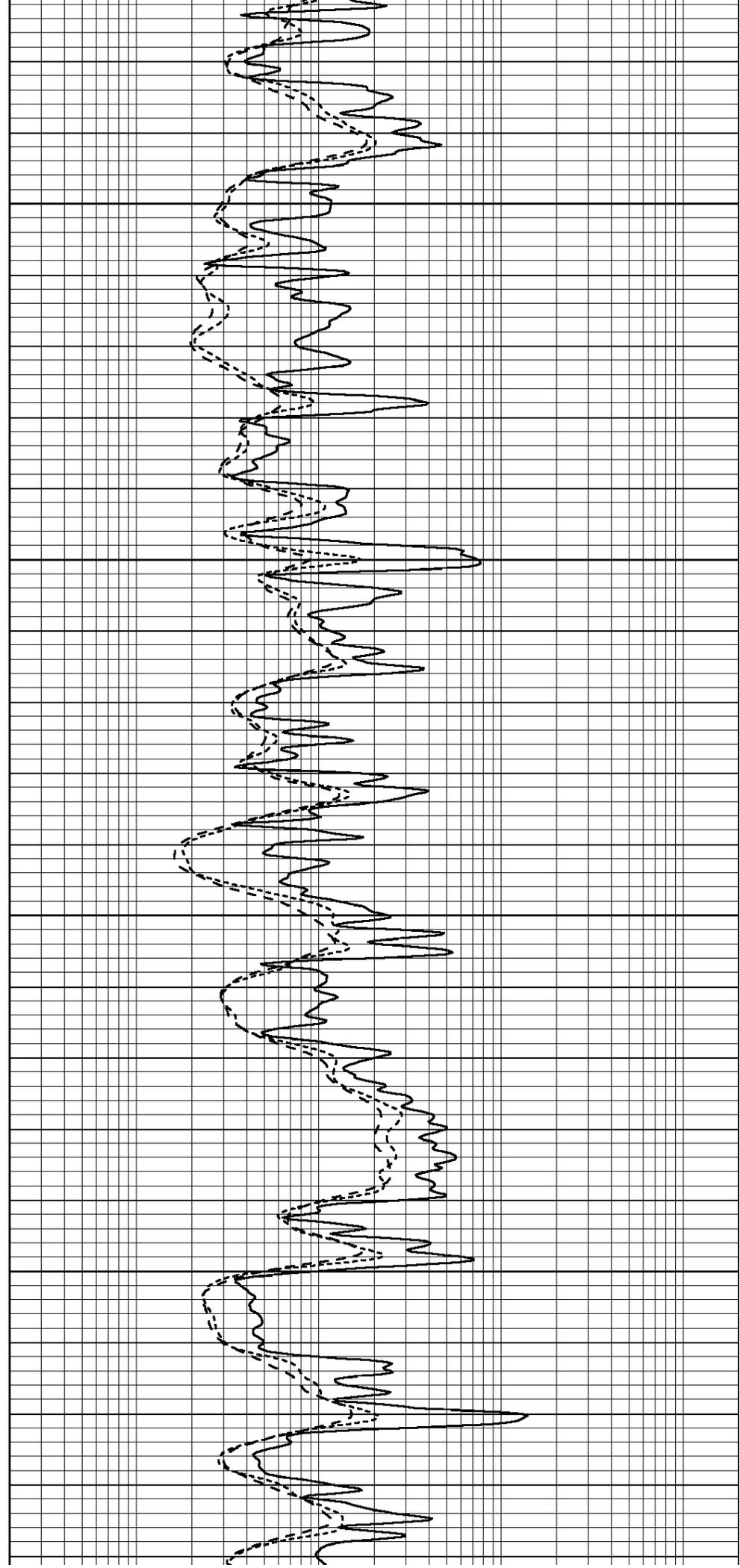


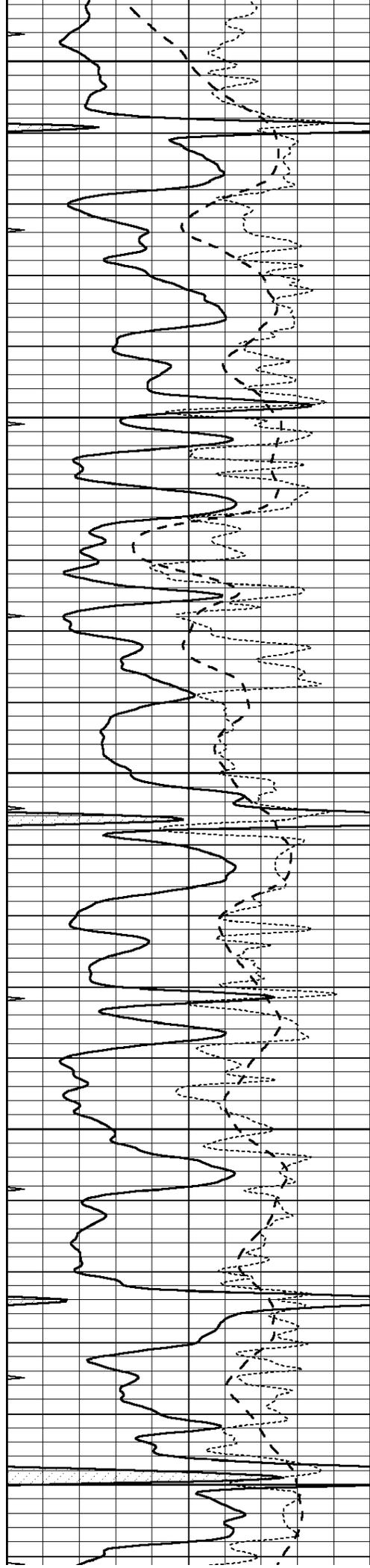
3350

3400

3450

3500





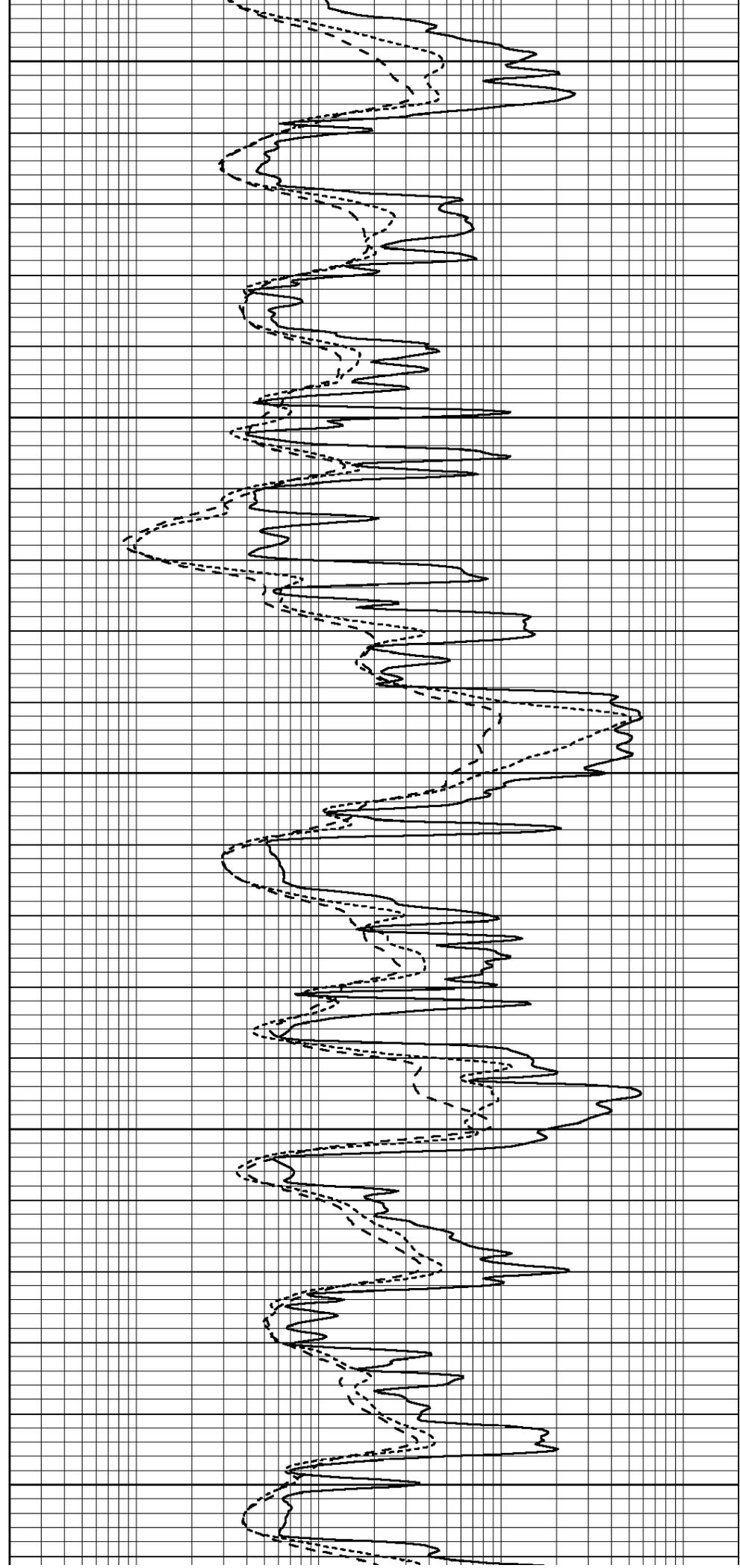
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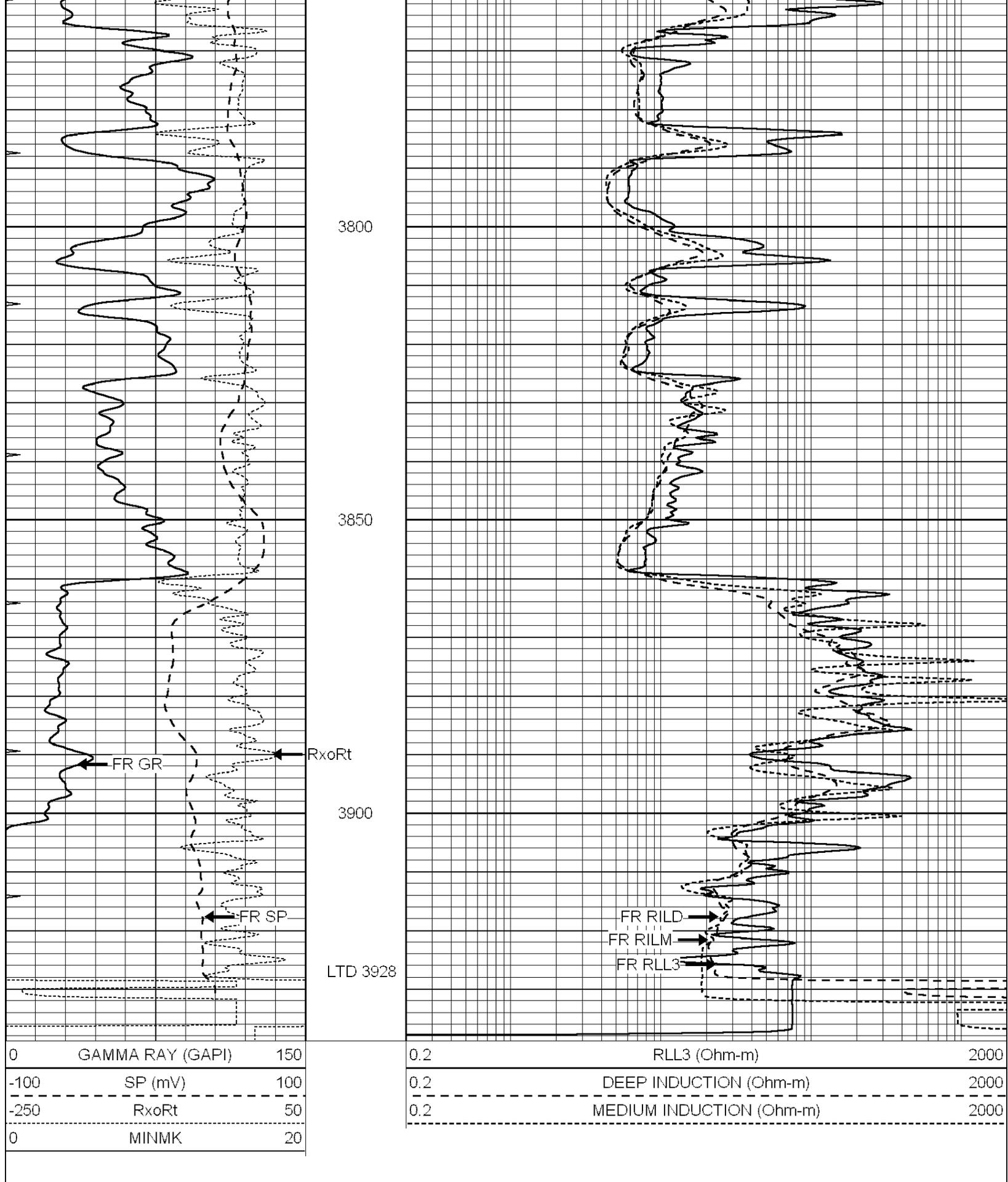
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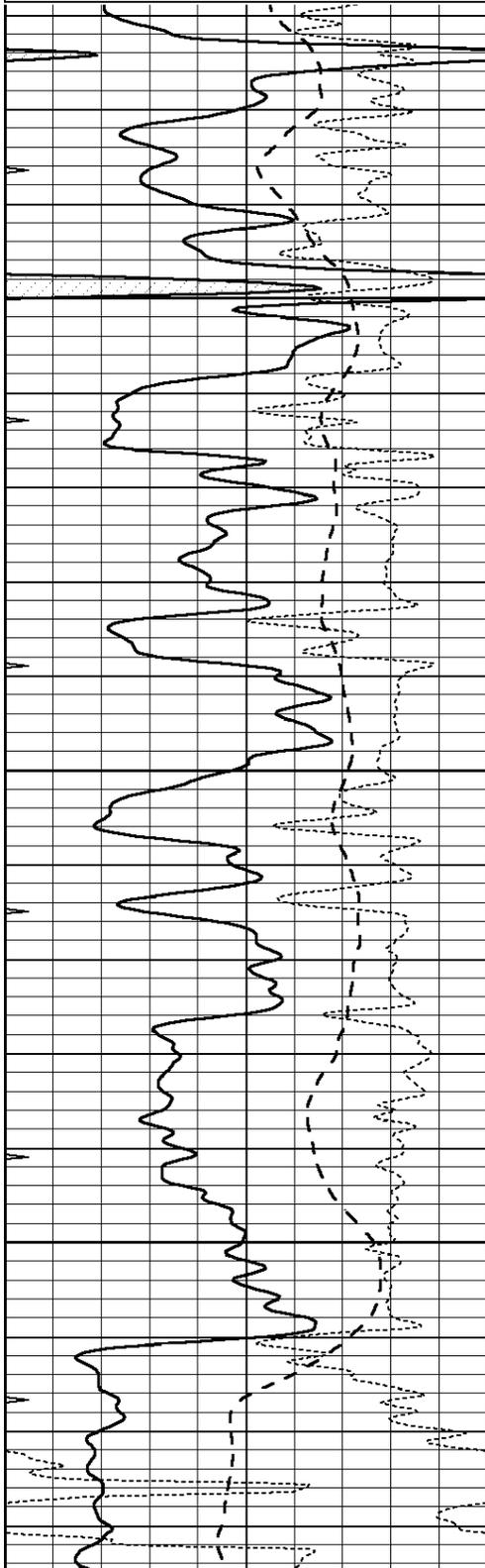




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 Charted by: Depth in Feet scaled 1:240

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

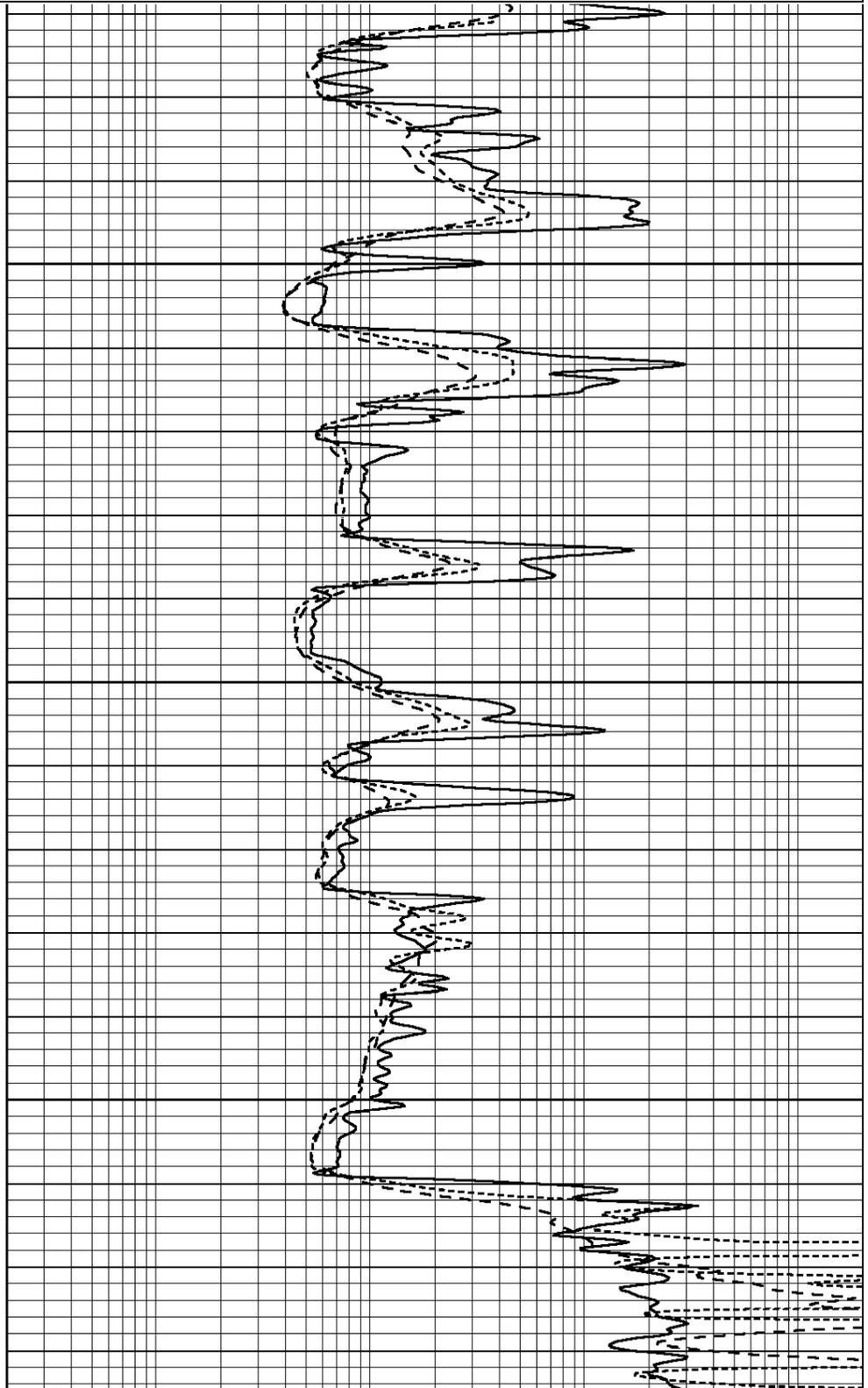
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

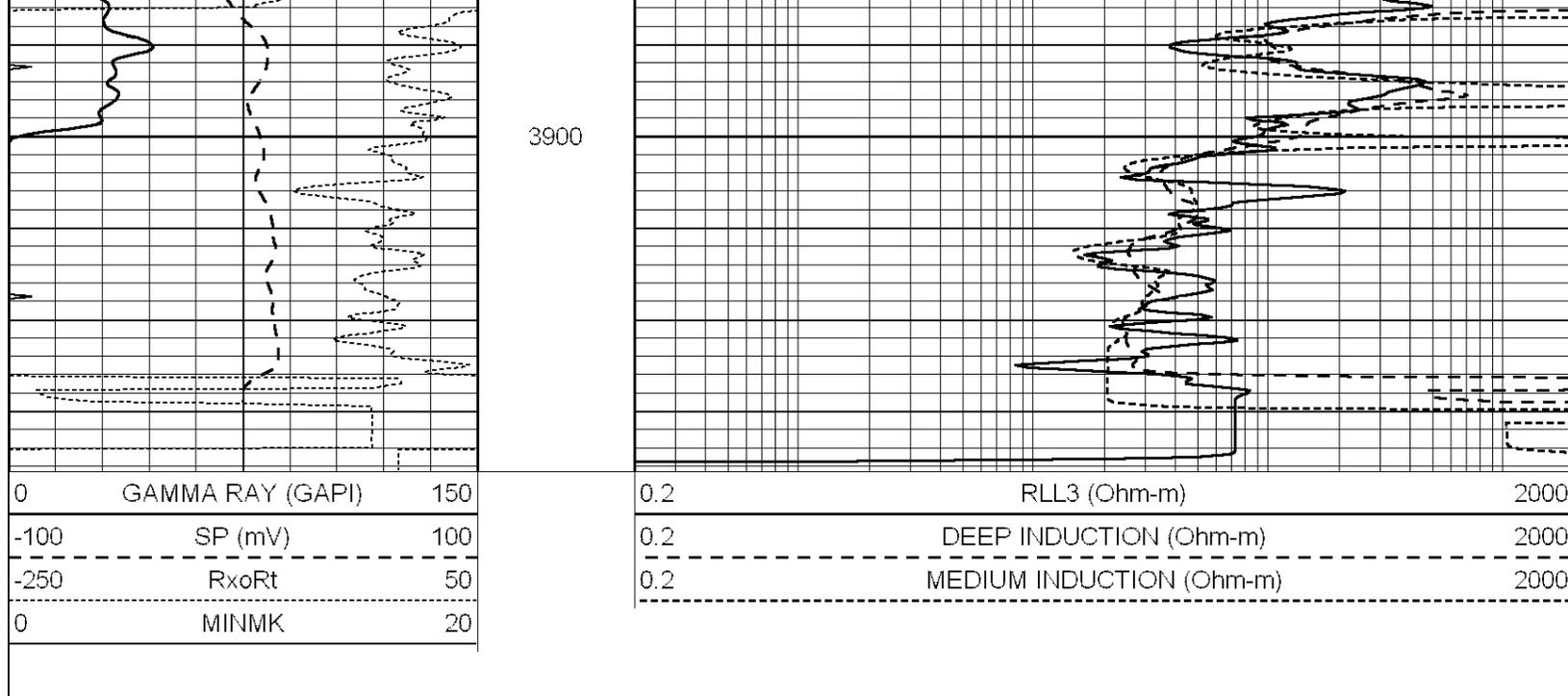


3750

3800

3850





Calibration Report

Database File: 008007pe.db
 Dataset Pathname: pass3.4
 Dataset Creation: Sat Nov 12 09:26:43 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Thu Nov 10 00:41:13 2011

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	530.000	-18.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	550.000	-13.000
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: 002 Model: PRB
 Performed Tue Jul 03 11:12:28 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1059.5	9172.0	2859.6	10210.6	cps
Window 2	976.0	7793.2	2486.1	8515.6	cps
Window 3	689.8	2930.5	1159.0	3096.2	cps
Window 4	231.9	237.2	231.1	234.0	cps
Long Space	0.0	6817.1	1510.1	7539.6	cps
Short Space	1.6	1758.1	1188.6	1898.8	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.4	Rib Slope	: 1.015	Density/Spine Ratio	: 0.569
Spine Angle	: 75.4	Spine Slope	: 3.850	Spine Intercept	: -19.9

Caliper	Readings	Reference	
Low Ref	3.8	8.5	
High Ref	4.9	12.0	
	Gain: 3.1		Offset: -3.4

Compensated Neutron Calibration Report

Serial Number: NUC_2I
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 Nov 10 00:55:11 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps