



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	CAERUS KANSAS, LLC.	Company	CAERUS KANSAS, LLC.
Well	BENTON #1-42	Well	BENTON #1-42
Field	BOYD	Field	BOYD
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25715-0000 1598' FNL & 1026' FEL NW - NW - SE - NE	Other Services CDL/CNL MEL/SONIC	
Permanent Datum	GROUND LEVEL	Elevation	1828
Log Measured From	KELLY BUSHING 10' A.G.L.	Elevation	K.B. 1838 D.F. 1836 G.L. 1828
Drilling Measured From	KELLY BUSHING		
Date	7/10/12		
Run Number	ONE		
Depth Driller	3423		
Depth Logger	3424		
Bottom Logged Interval	3422		
Top Log Interval	00		
Casing Driller	8 5/8"@829'		
Casing Logger	834		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.450@80F		
Rmt @ Meas. Temp	.334@80F		
Rmc @ Meas. Temp	.540@80F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.324@111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JUSTIN CARTER	BRIAN KARLIN	

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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 SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS

RUSSELL, KS. & I-70, S. TO (HWY 4 & 281) 2E. TO "RD. 20", 1 1/2S. ACROSS RR TRACKS, W. INTO



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MAIN SECTION

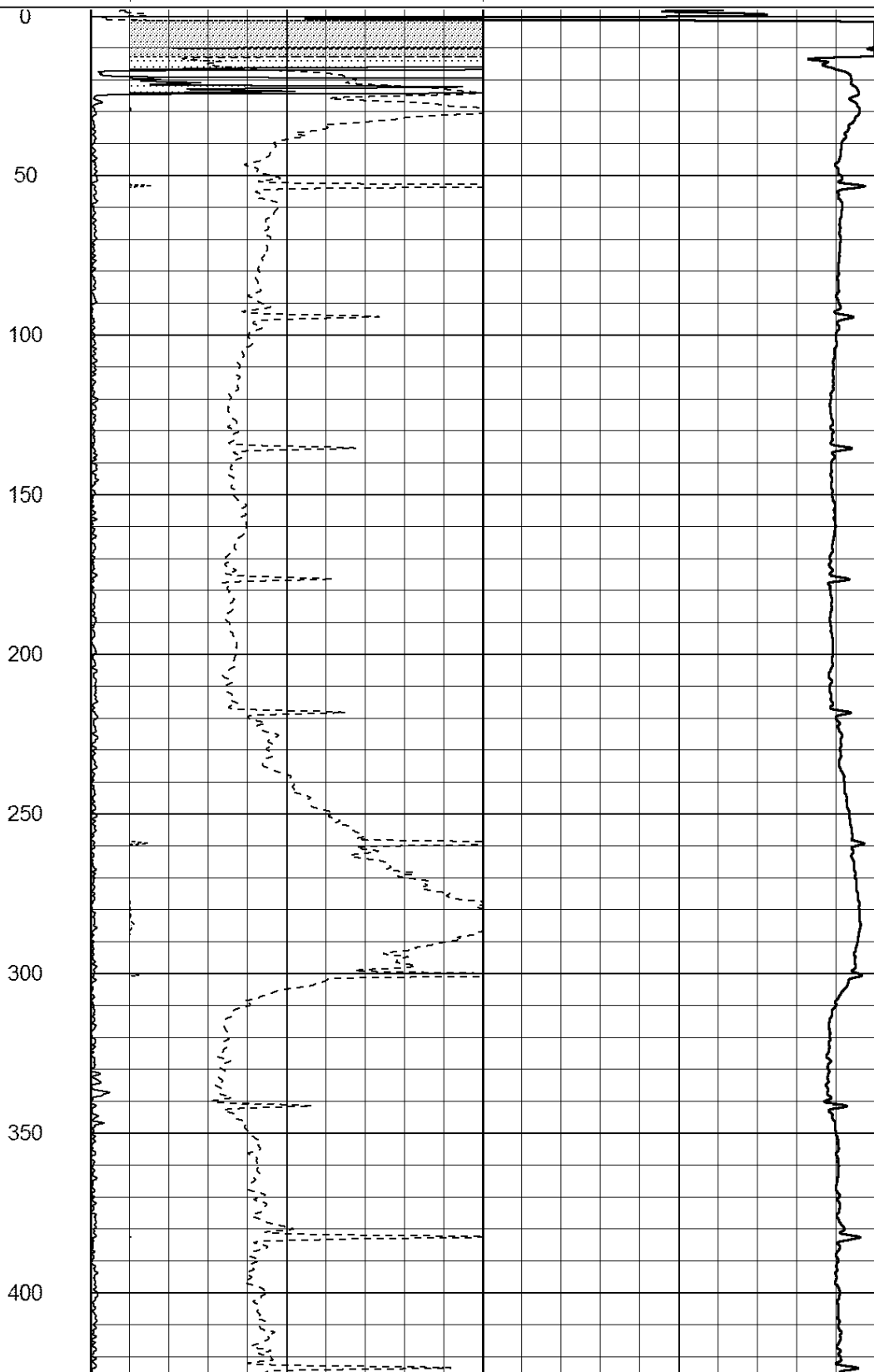
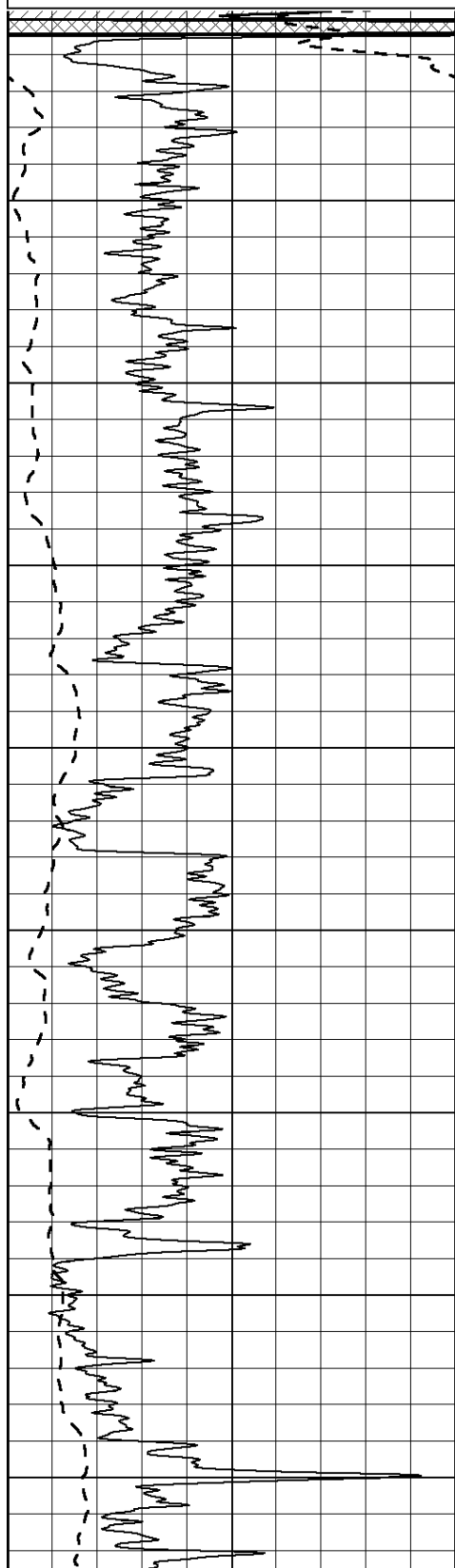
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 Dataset Pathname: pass3.3
 Presentation Format: dil2
 Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:600

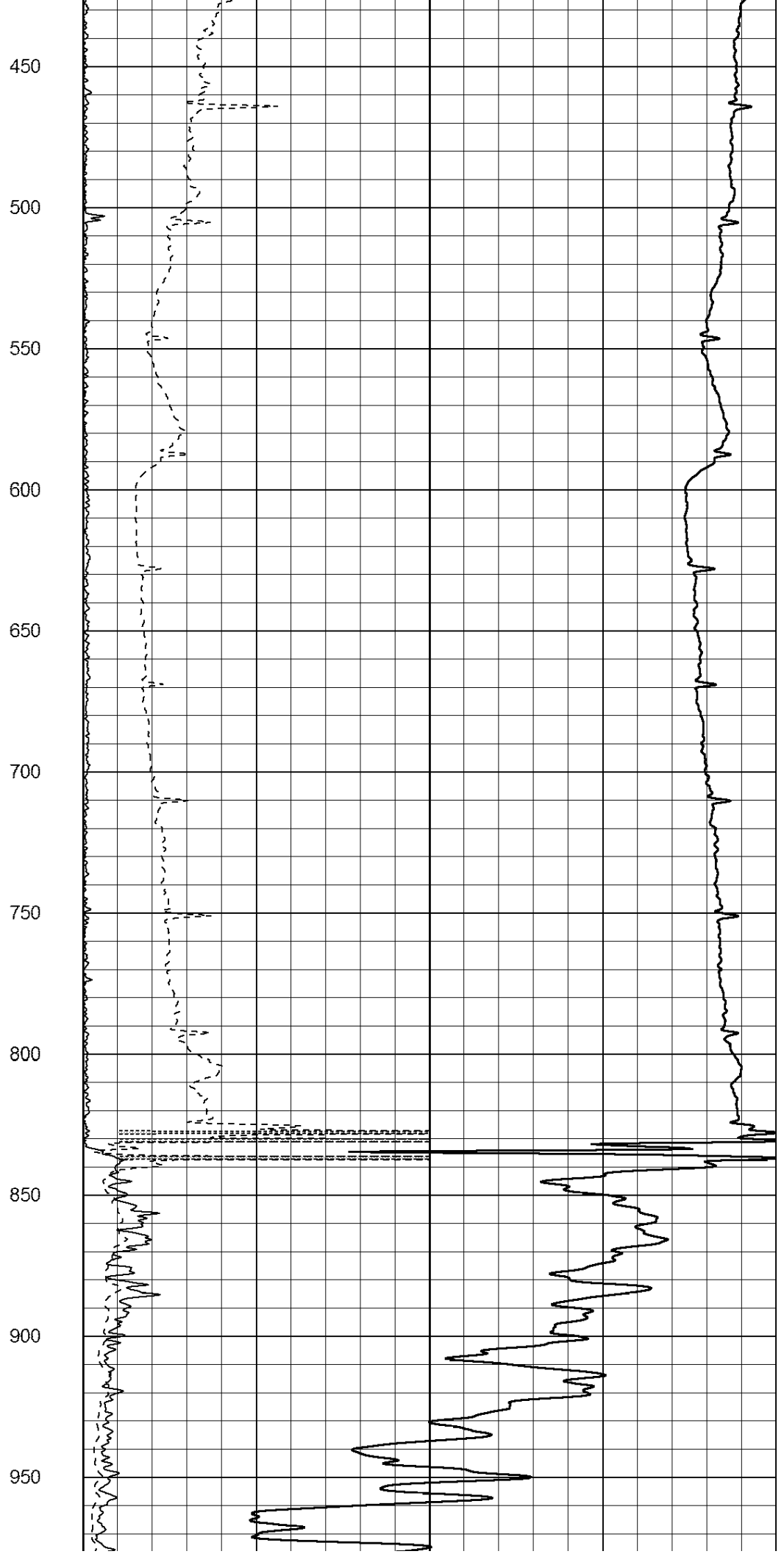
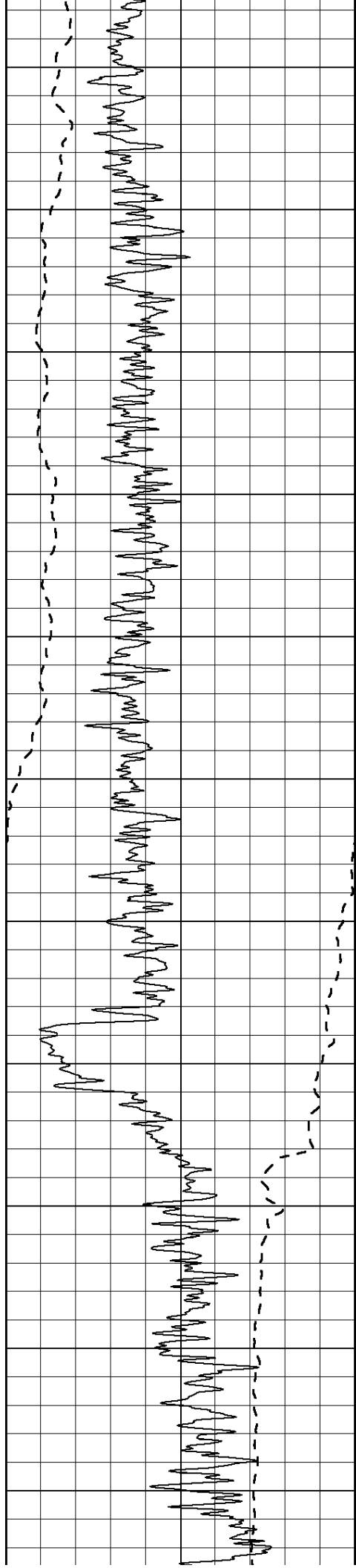
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-100	SP (mV)	100

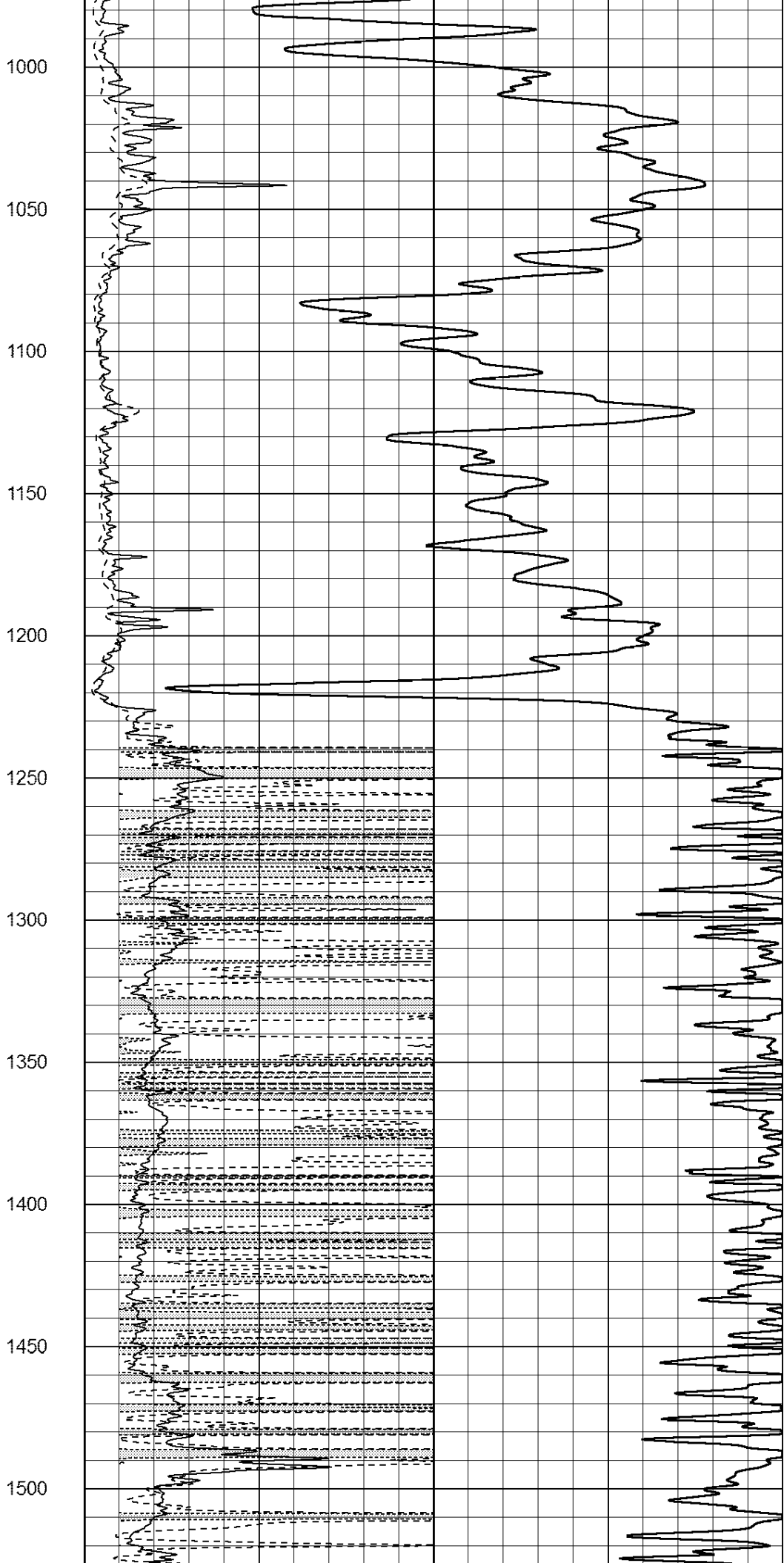
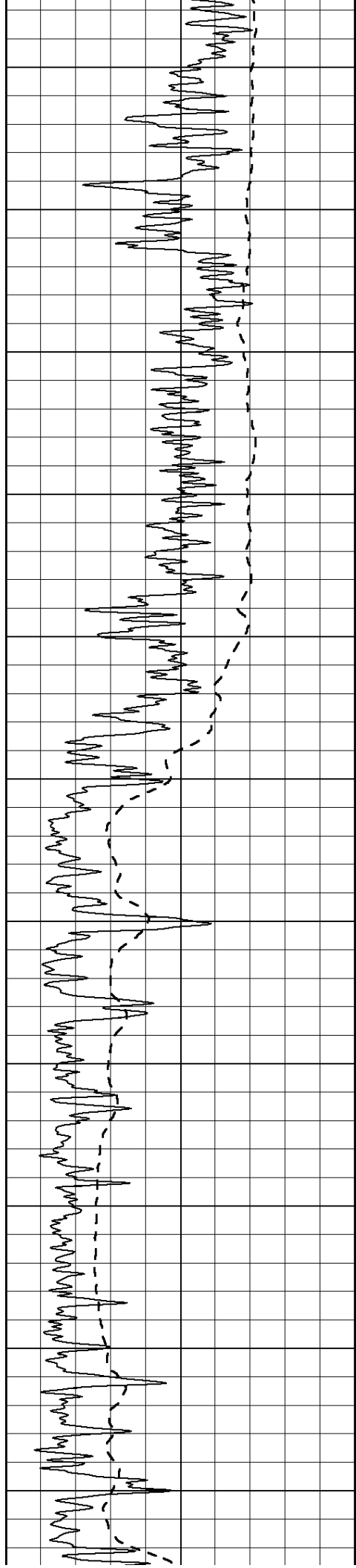
0	RLL3 (Ohm-m)	50
0	RILD (Ohm-m)	50

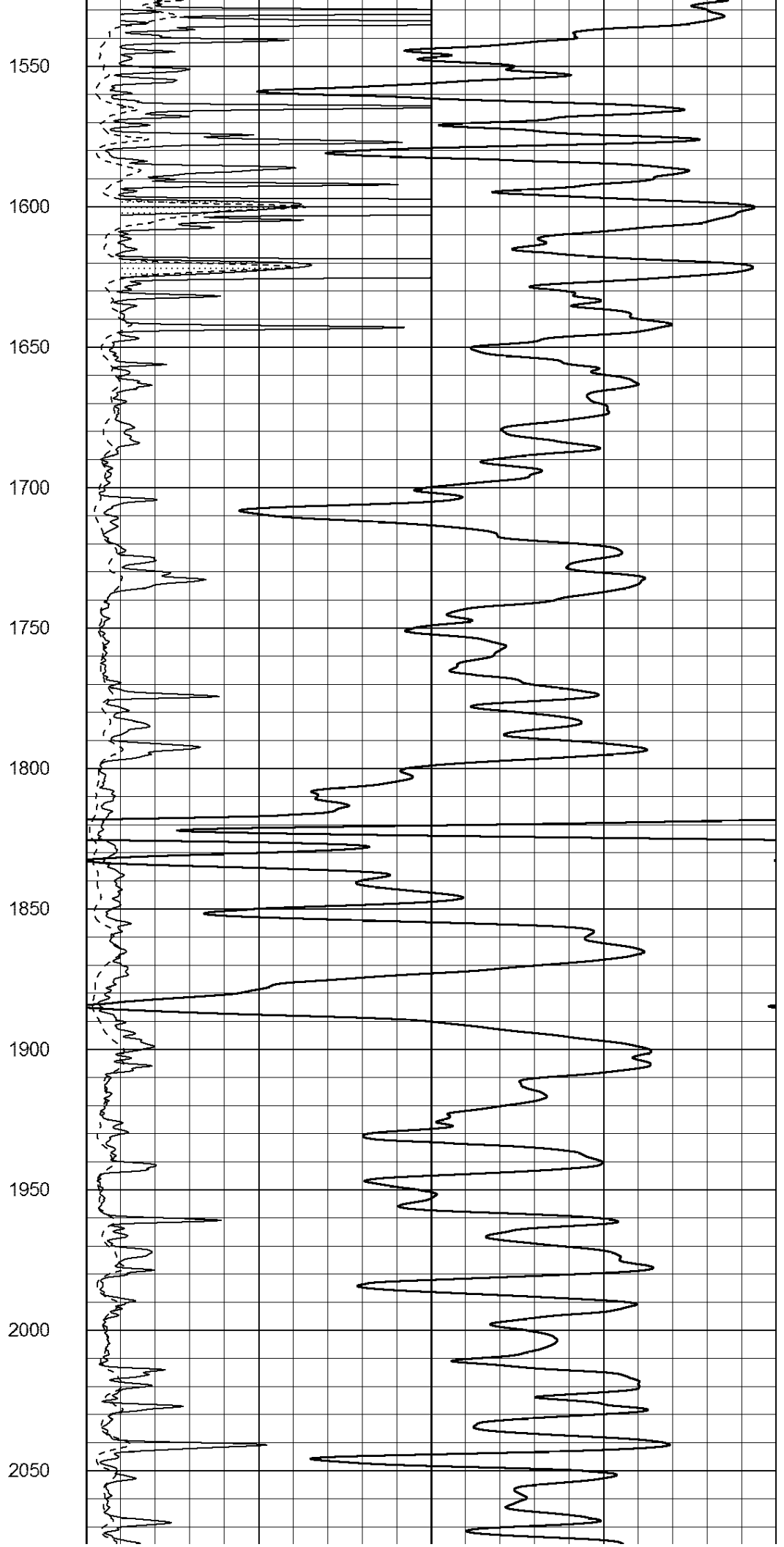
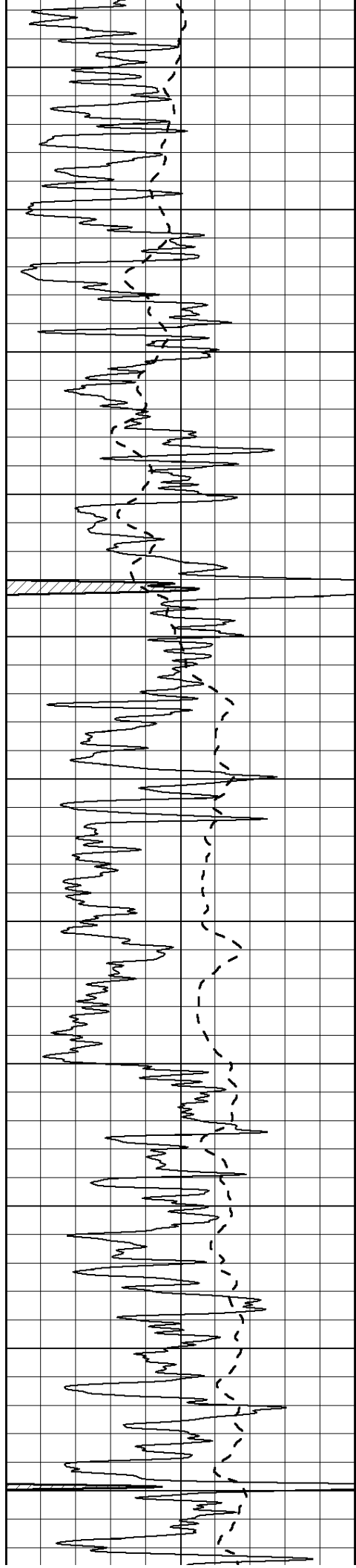
1000	CILD (mmho/m)	0
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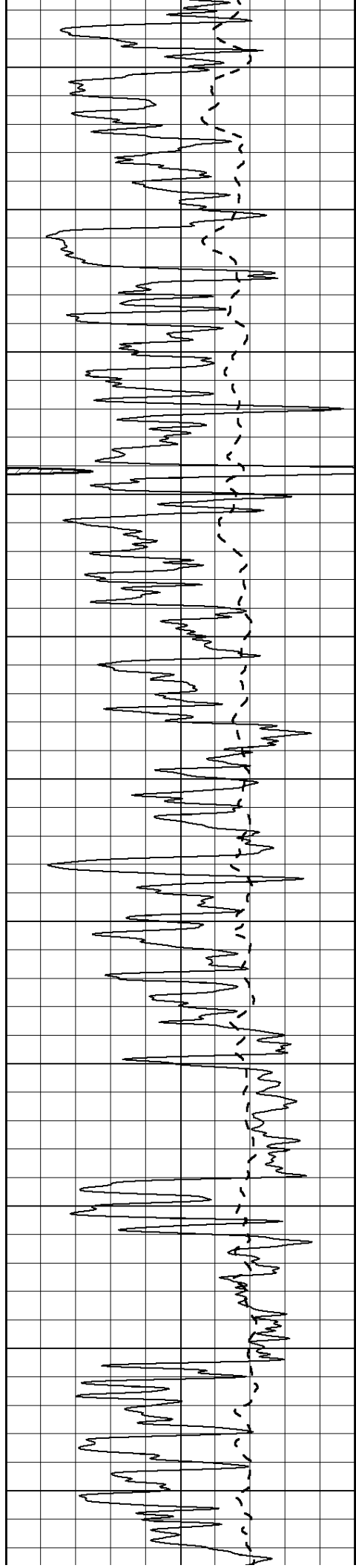
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500











2100

2150

2200

2250

2300

2350

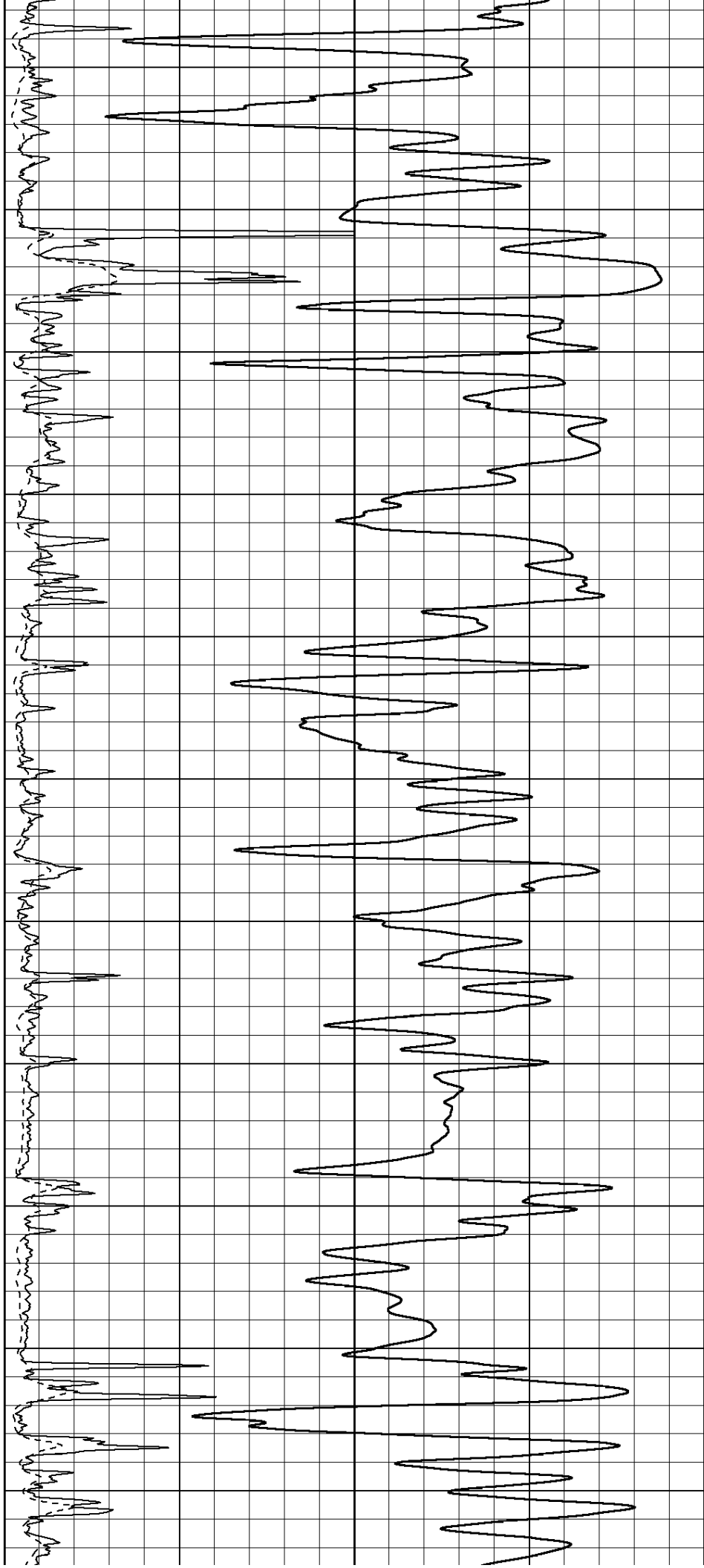
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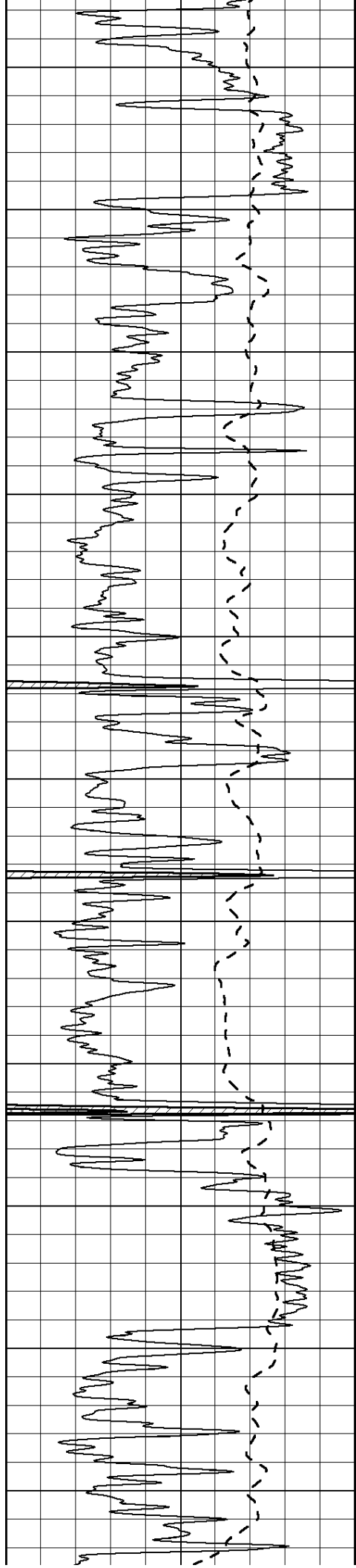
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2500

2550

2600





2650

2700

2750

2800

2850

2900

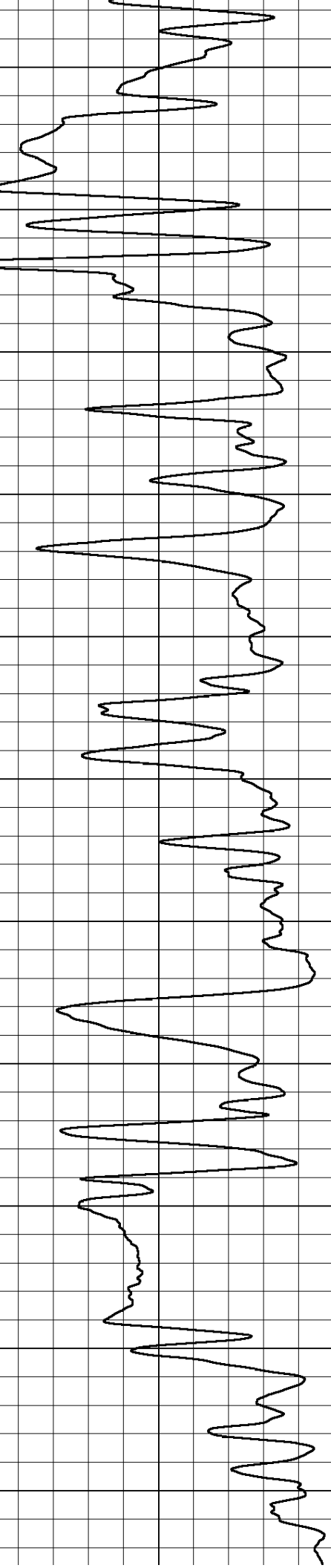
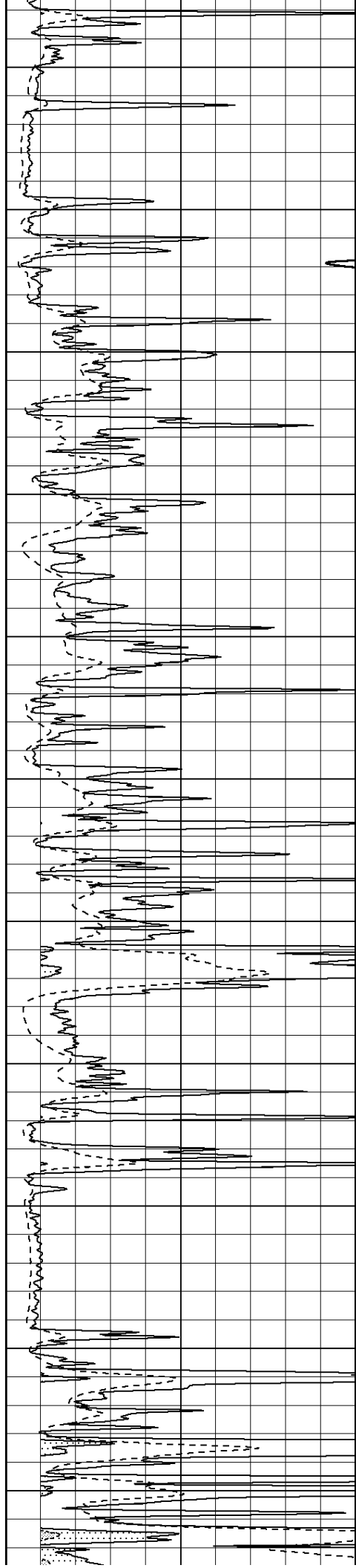
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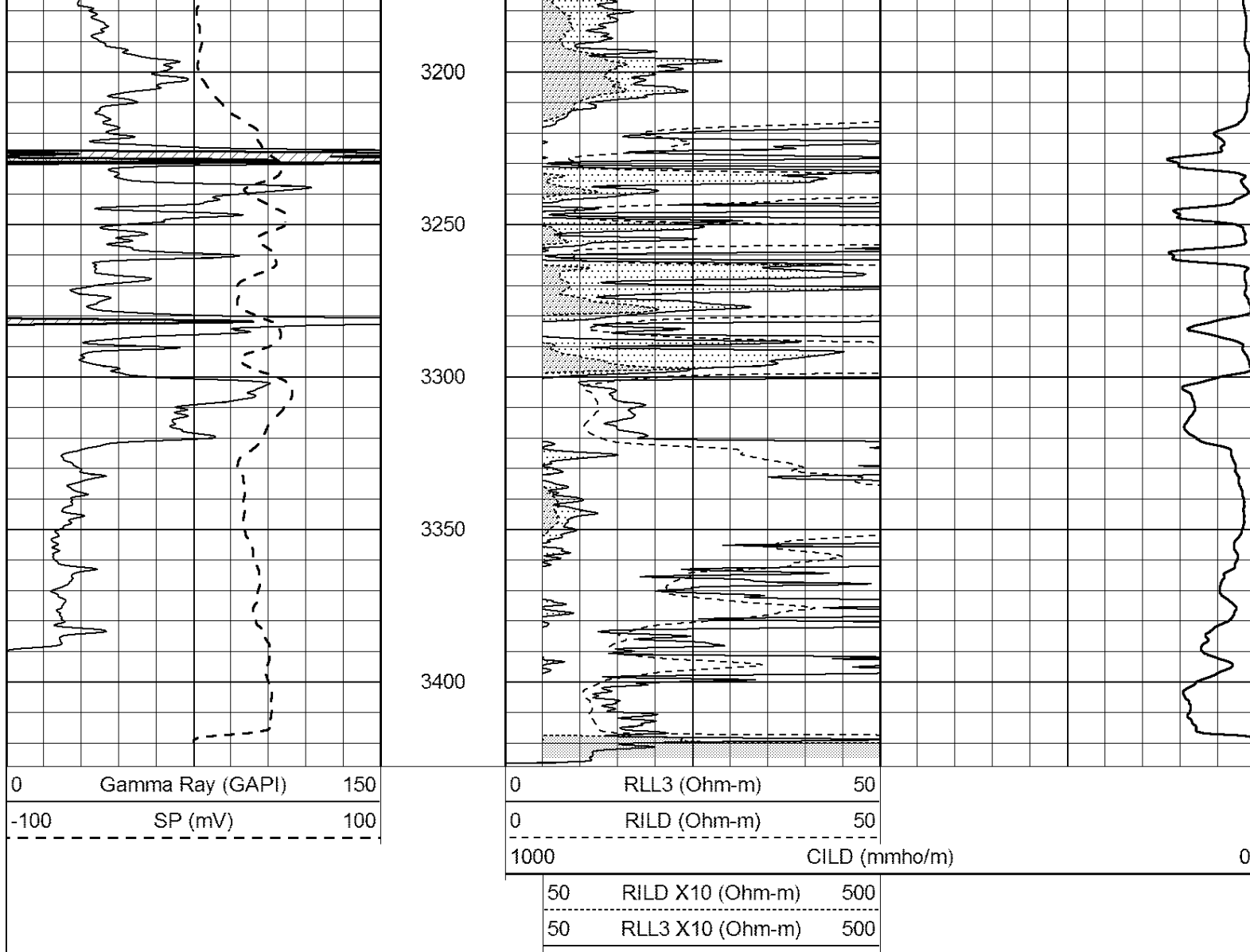
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3050

3100

3150





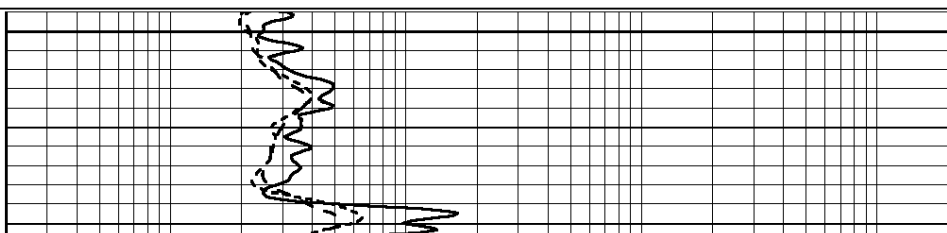
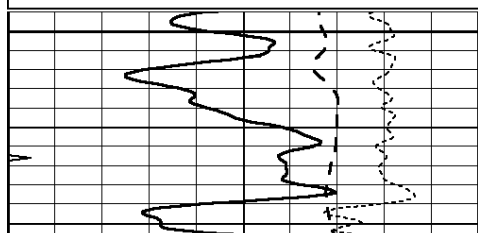
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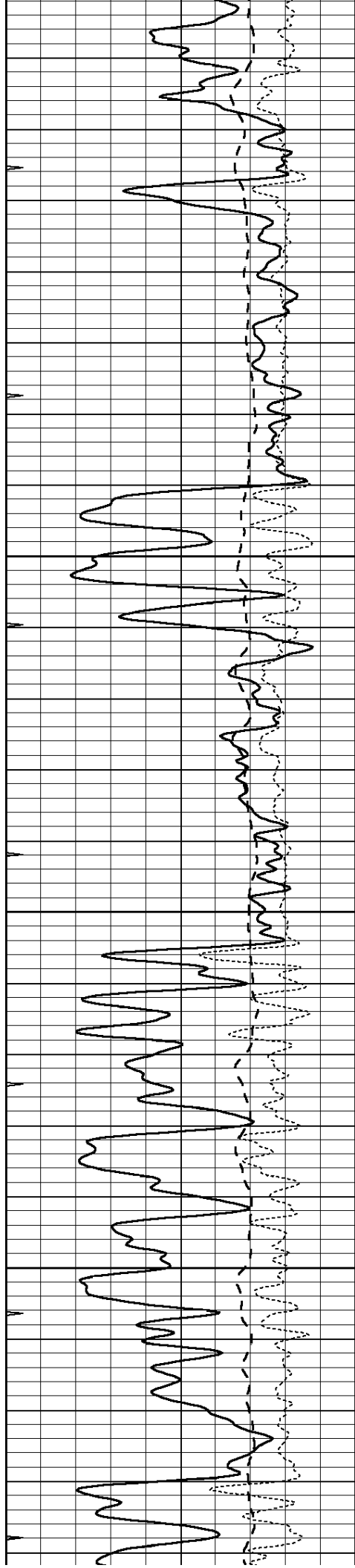
MAIN SECTION

Database File: 409429ddn.db
 Dataset Pathname: pass3.3
 Presentation Format: dil
 Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



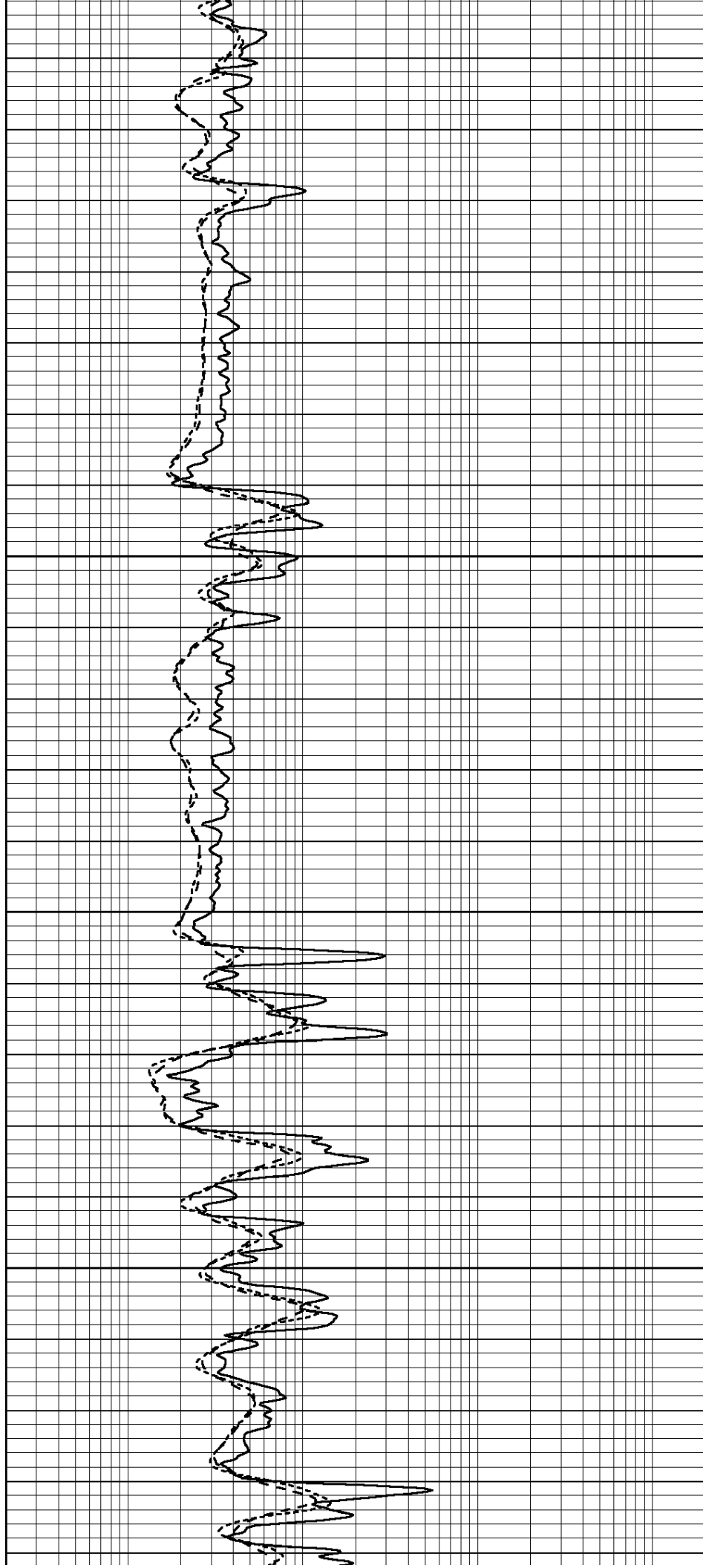


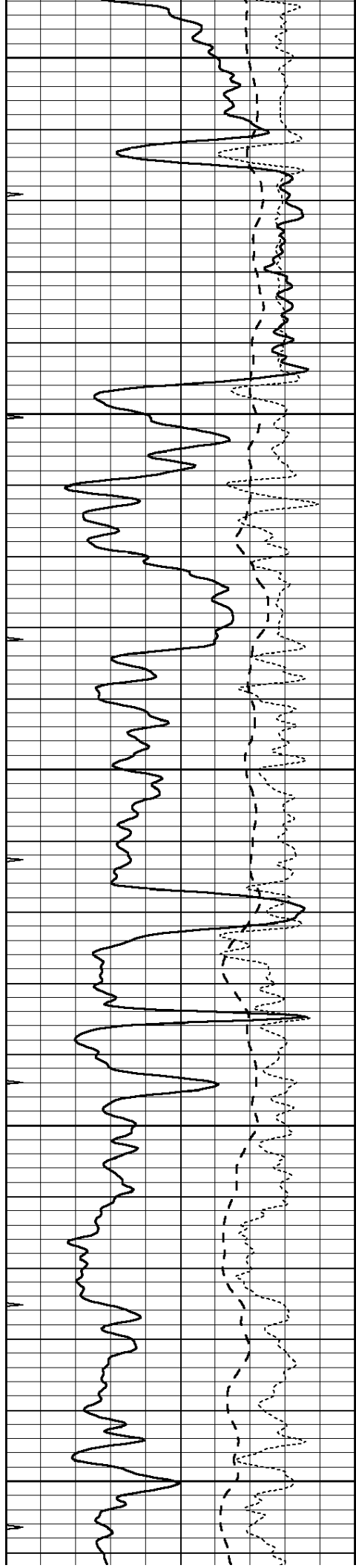
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2600





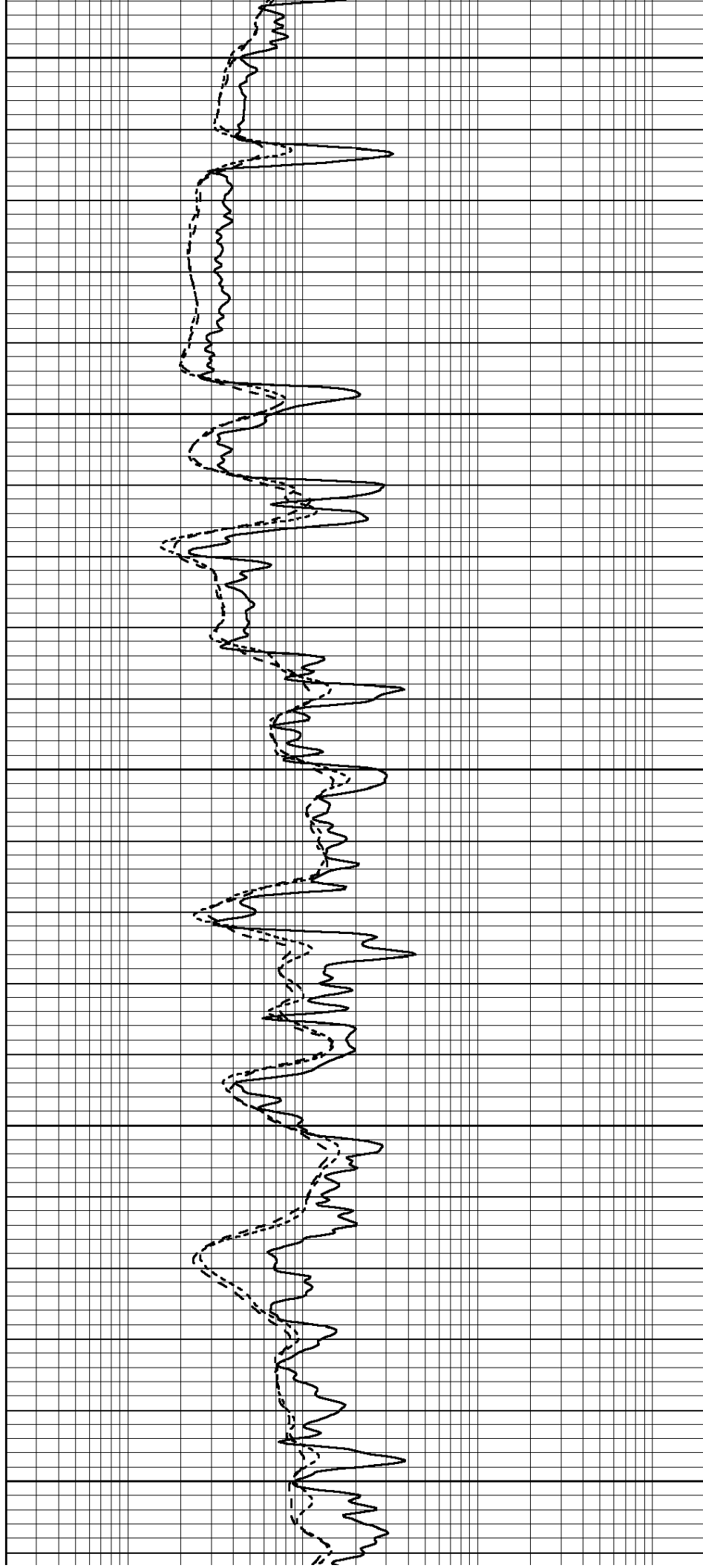
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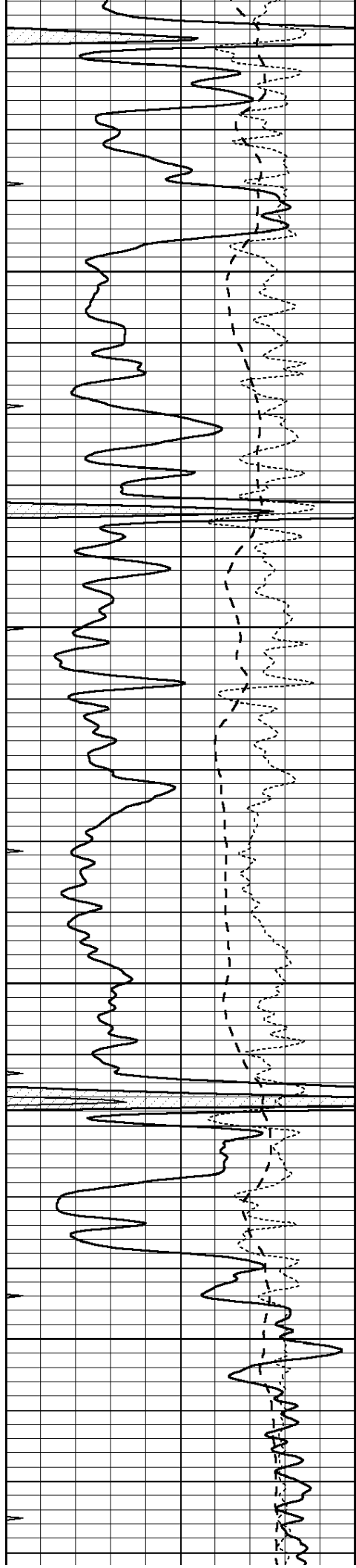
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2850



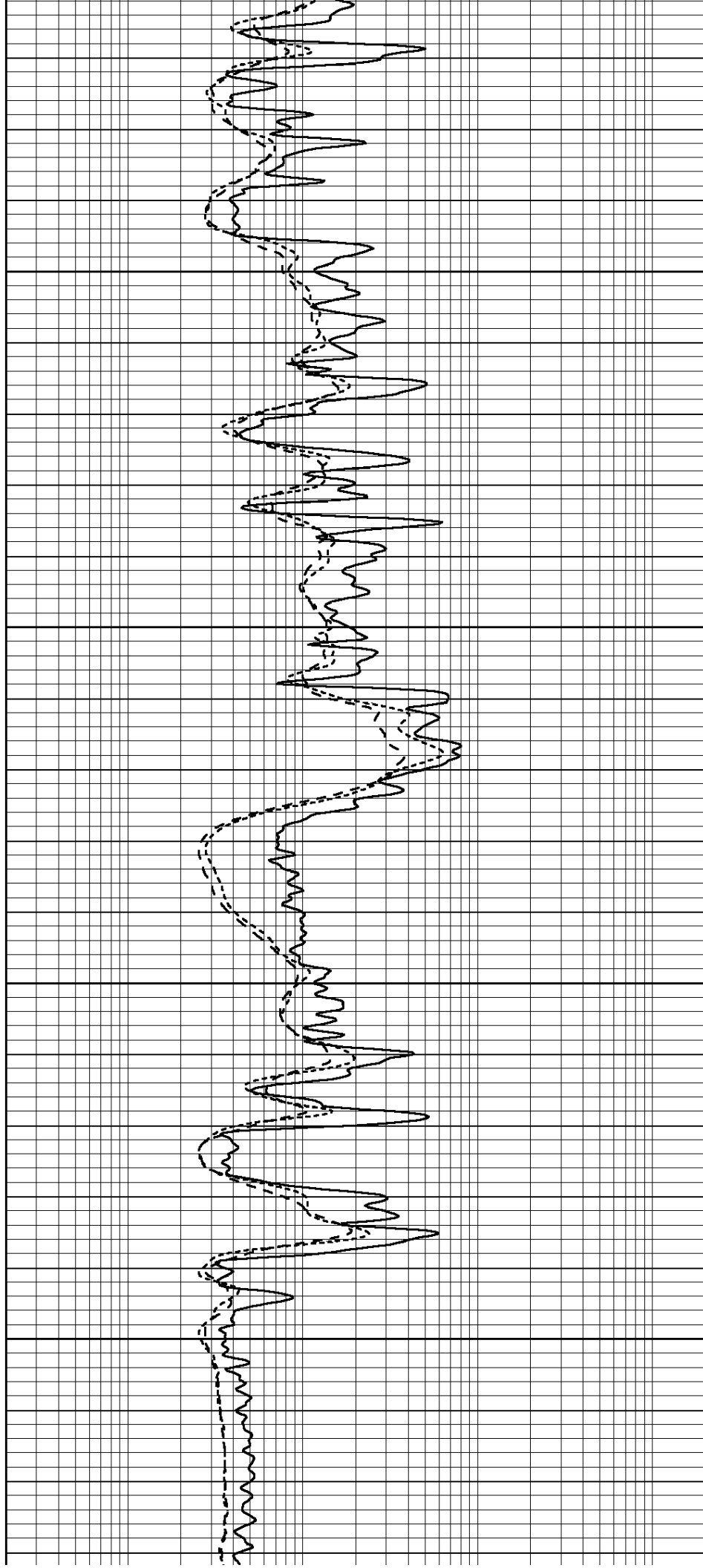


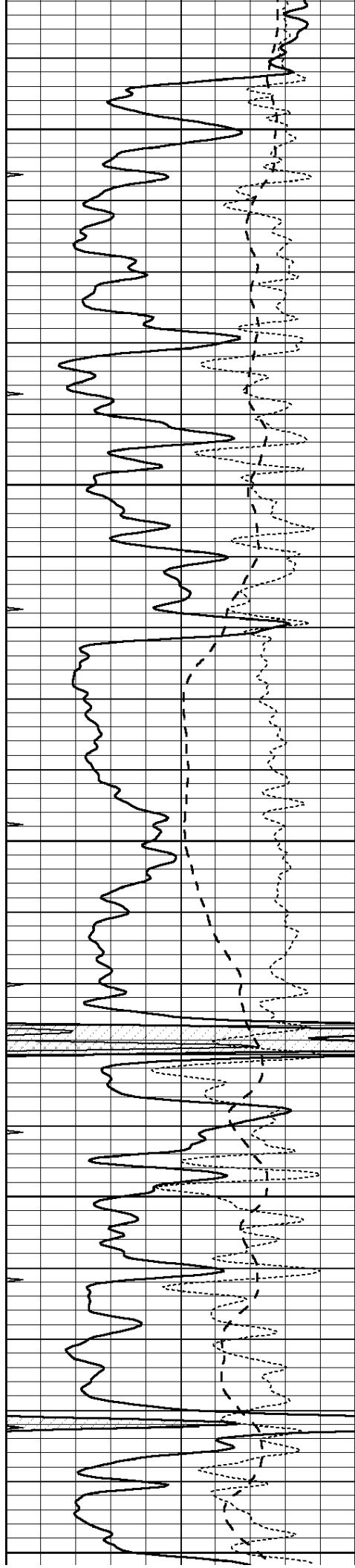
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2950

3000

3050





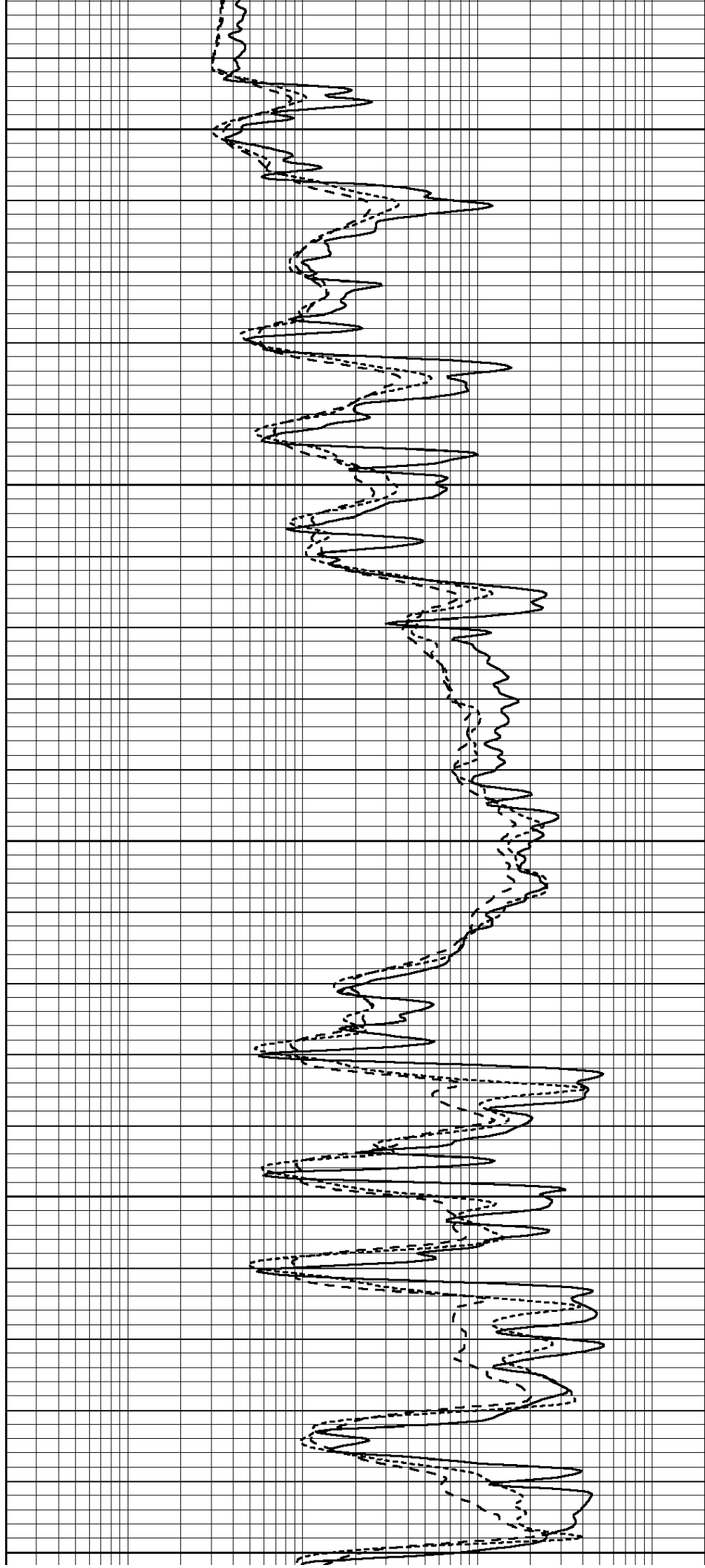
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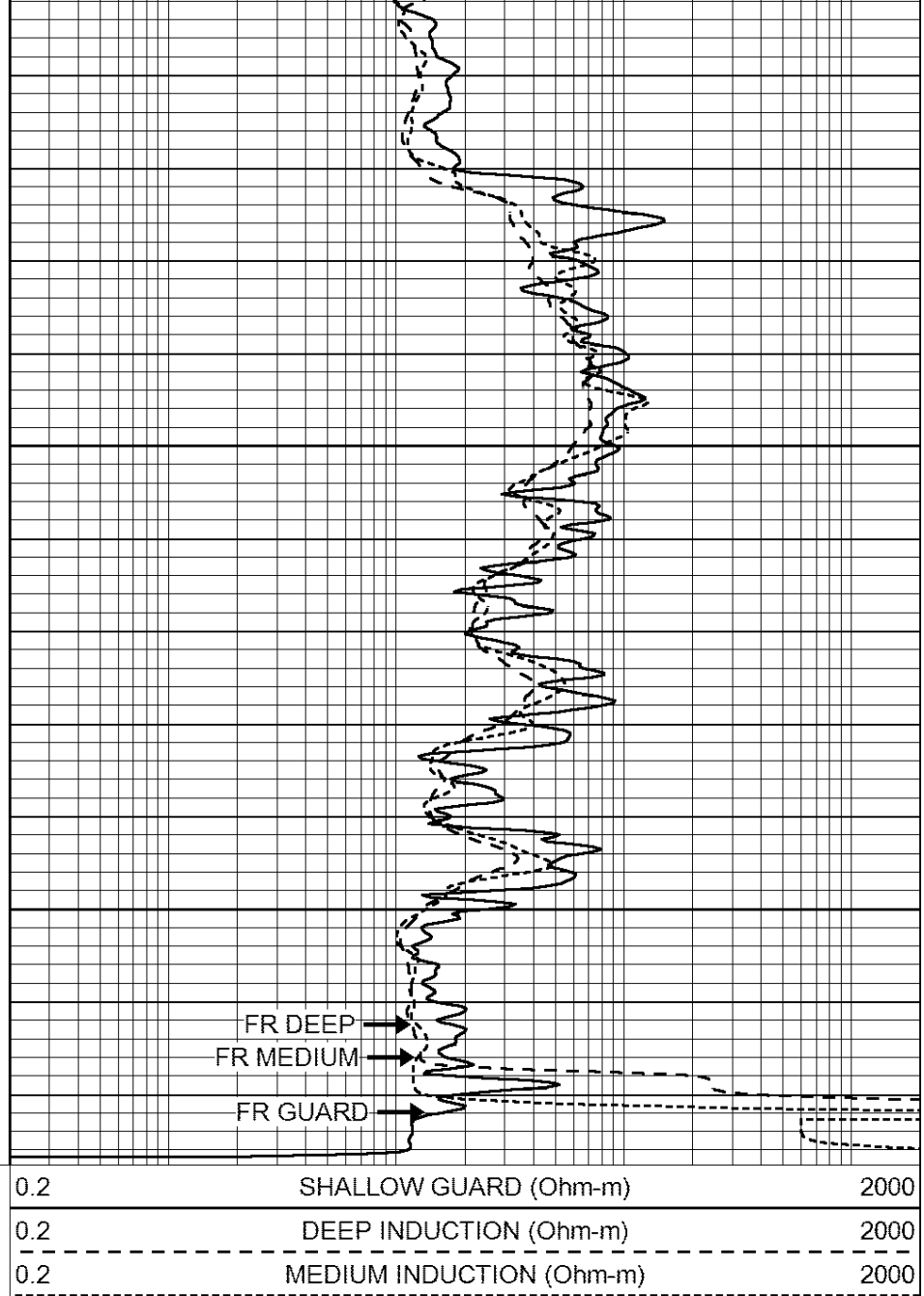
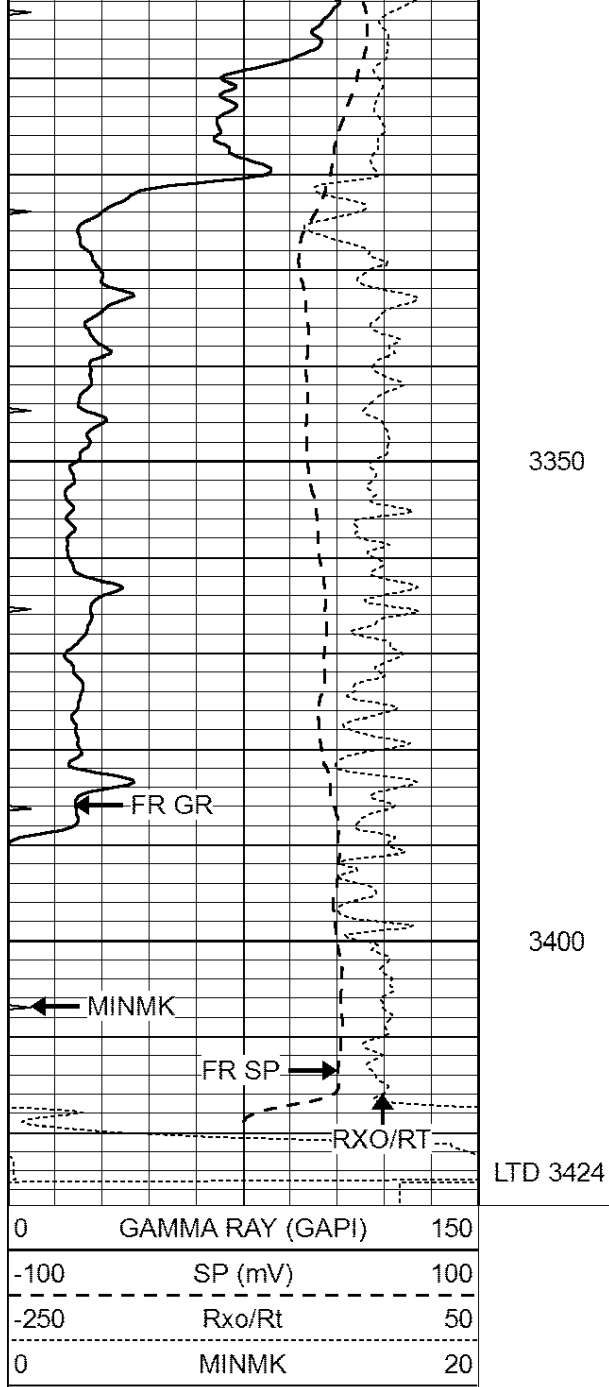
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3200

3250

3300





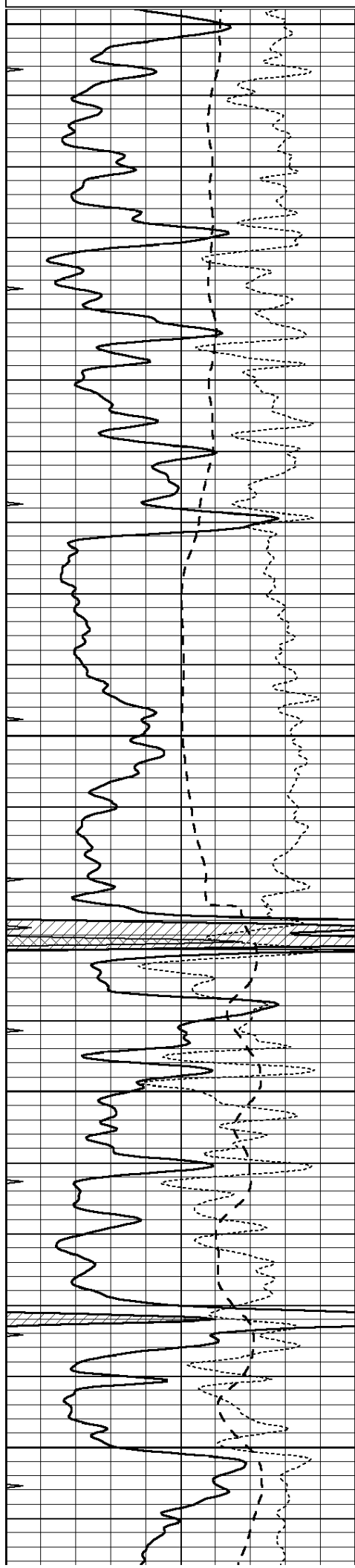
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REPEAT SECTION

Database File: 409429ddn.db
 Dataset Pathname: pass2.6
 Presentation Format: dil
 Dataset Creation: Tue Jul 10 07:53:03 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	20

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



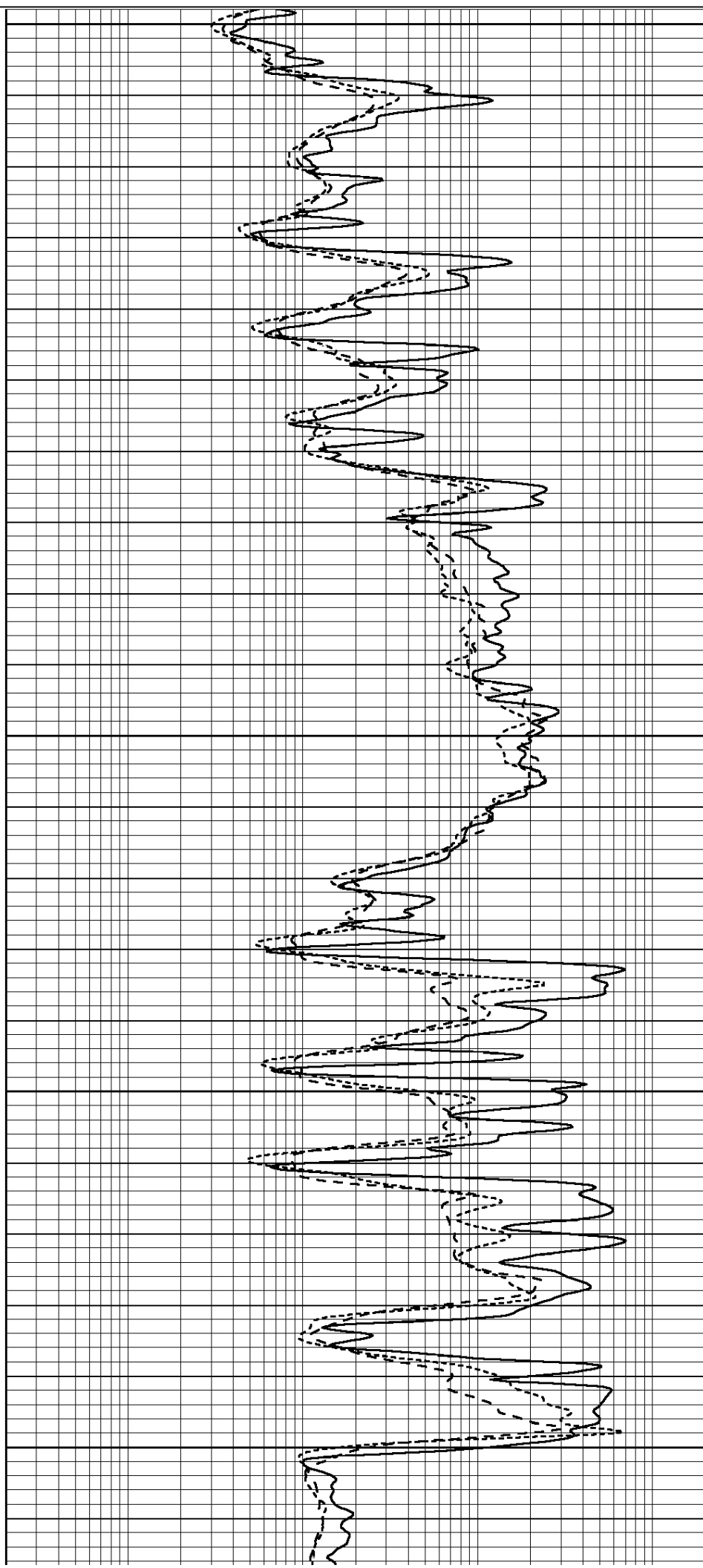
3100

3150

3200

3250

3300



Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper

	Readings	Reference	
Low Ref	3.4	7.9	
High Ref	5.5	15.0	
	Gain: 3.4		Offset: -3.5

Compensated Neutron Calibration Report

Serial Number: 070808
 Tool Model: Probe

PRE-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

POST-SURVEY VERIFICATION

Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 070559
 Tool Model: OPEN_GR
 Performed: Tue Jul 03 02:09:35 2012

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
 Calibrator Reading: 1.0 cps

Sensitivity: 0.3000 GAPI/cps