



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	CAPTIVA II, LLC.		
Well	EAKIN #3-7		
Field	WILDCAT		
County	PAWNEE	State	KANSAS
Location:	APL # : 15-145-21640-0000		Other Services CDL/CNL/PE MEL/SONIC
SEC 7 TWP 22S RGE 16W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	2006
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B. 2017 D.F. 2015 G.L. 2006	
Drilling Measured From	KELLY BUSHING		
Date	6/6/11		
Run Number	ONE		
Depth Driller	4000		
Depth Logger	3994		
Bottom Logged Interval	3992		
Top Log Interval	00		
Casing Driller	8 5/8"@1035'		
Casing Logger	1035		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,000 PPM	
Density / Viscosity	9.3/39		
pH / Fluid Loss	11.0/12.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.750@90F		
Rmt @ Meas. Temp	.563@90F		
Rmc @ Meas. Temp	.900@90F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.582@116F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	10:45 A.M.		
Maximum Recorded Temperature	116F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEITH REAVIS		

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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
LARNED, KS. (DOWN TOWN) 3/4W. ON HWY 156 JUST PAST SECOND BRIDGE, 1/2S., 1/2W. IN



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MAIN SECTION

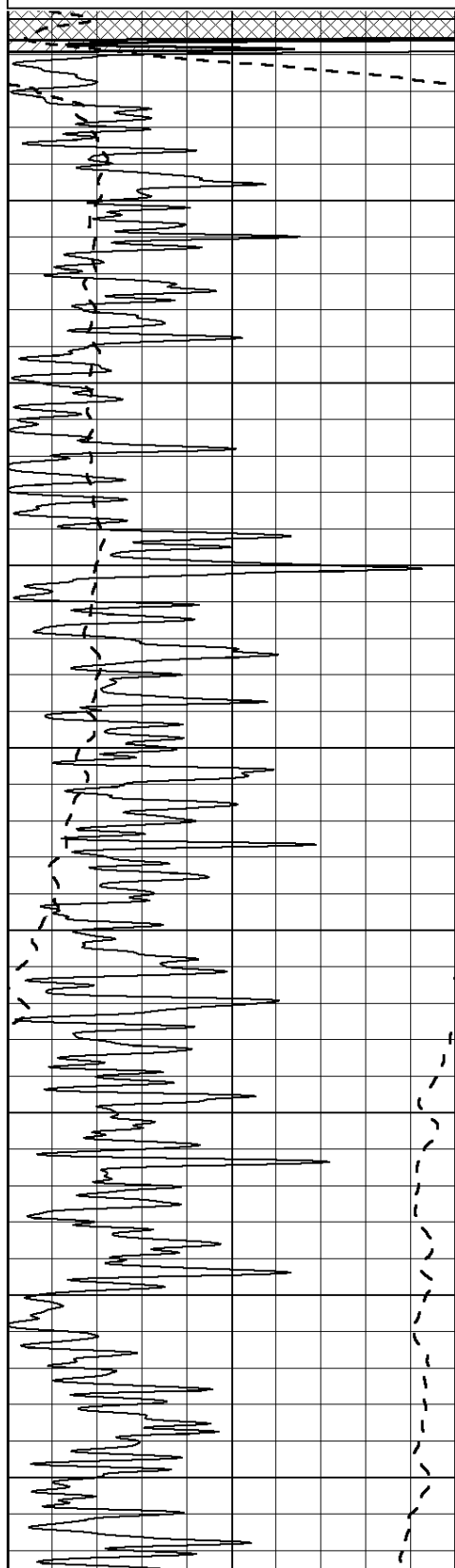
Database File: 006965pe.db
 Dataset Pathname: pass6.6
 Presentation Format: dil2
 Dataset Creation: Mon Jun 06 20:23:06 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:600

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

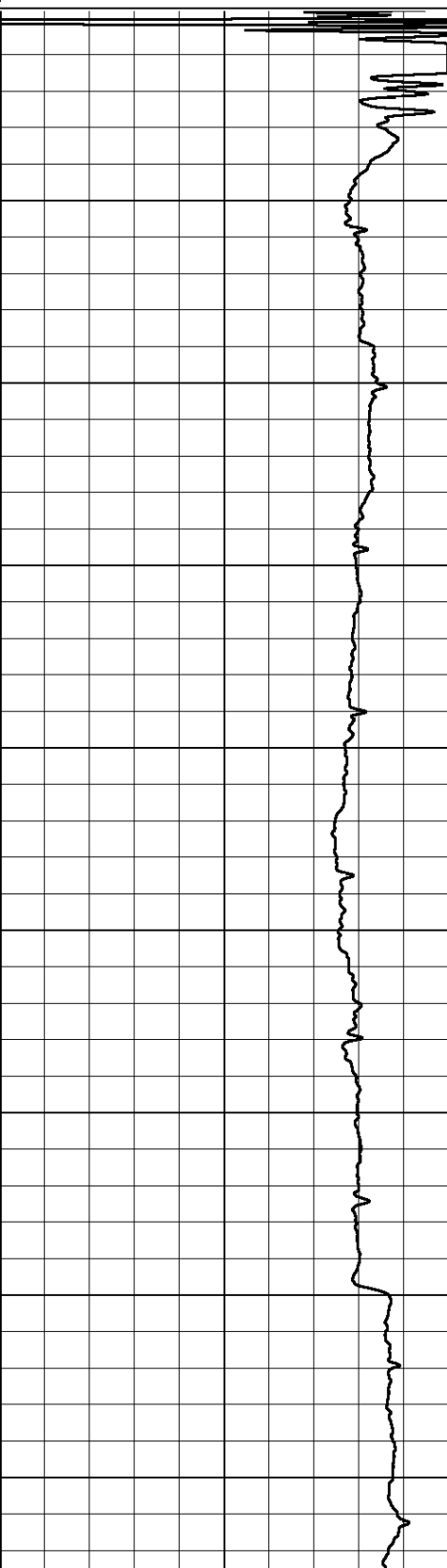
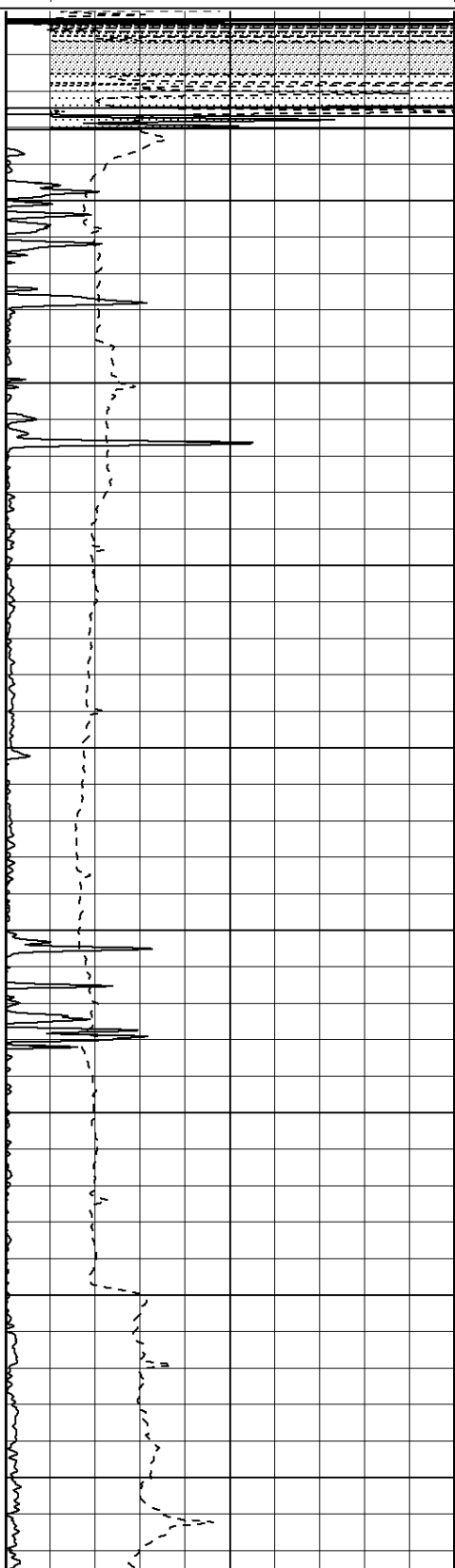
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0	RILD (Ohm-m)	50

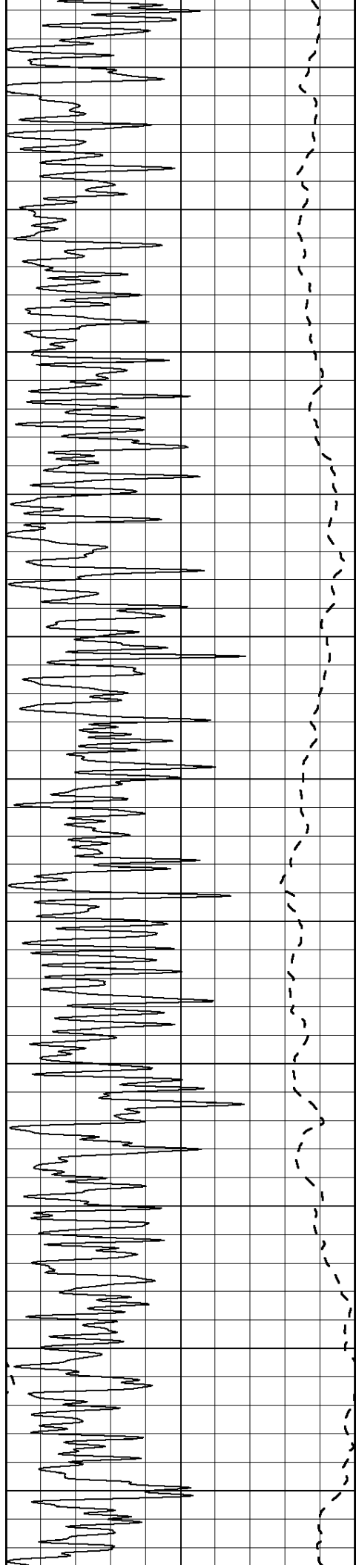
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

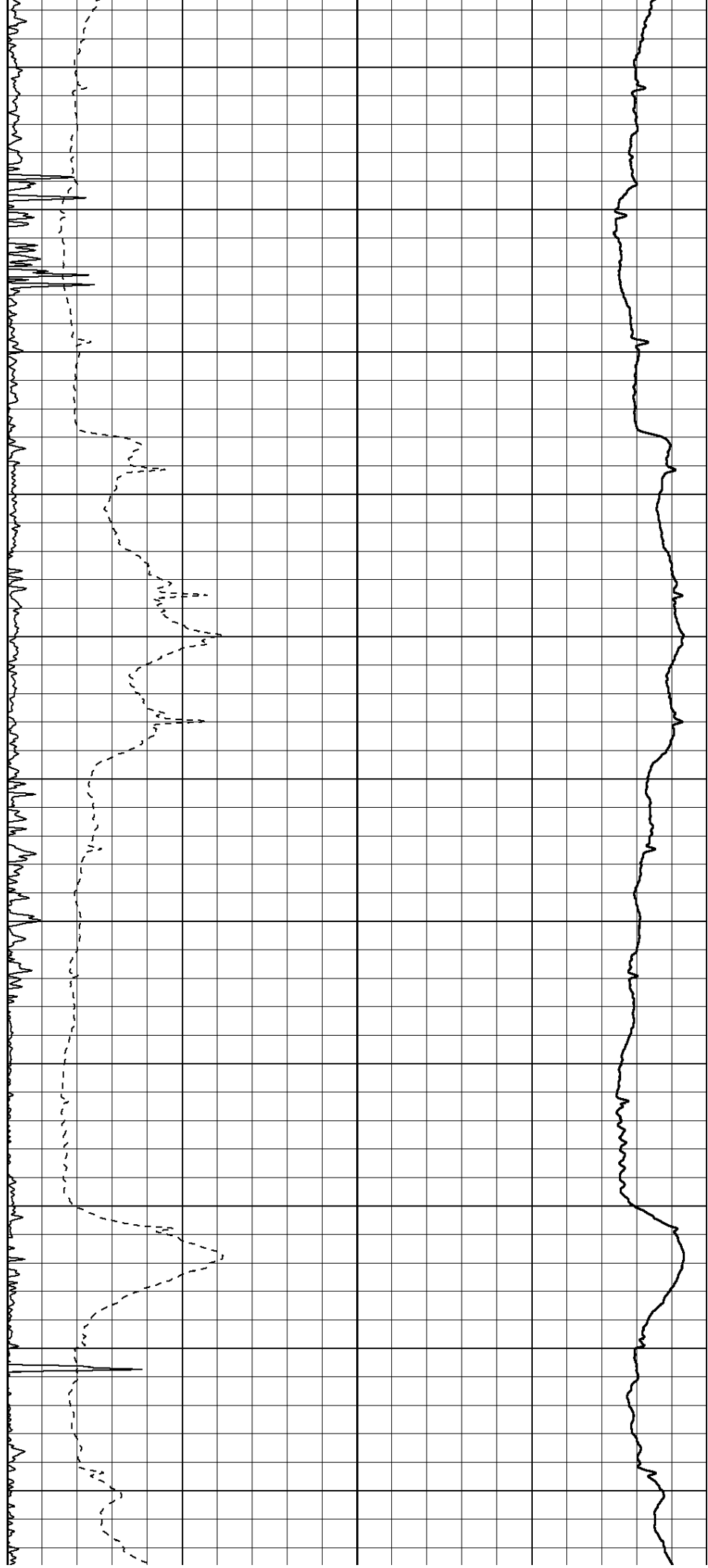
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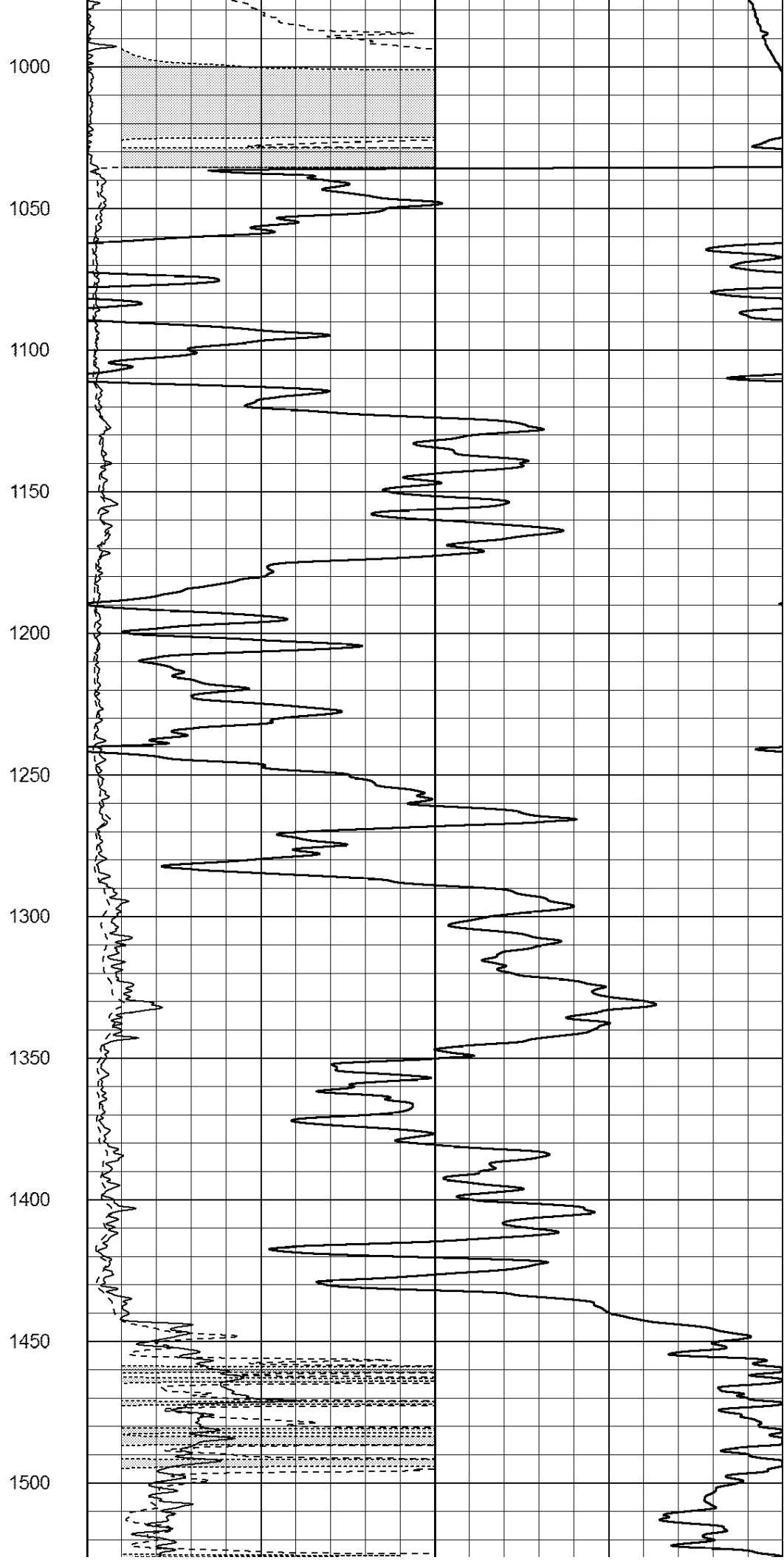
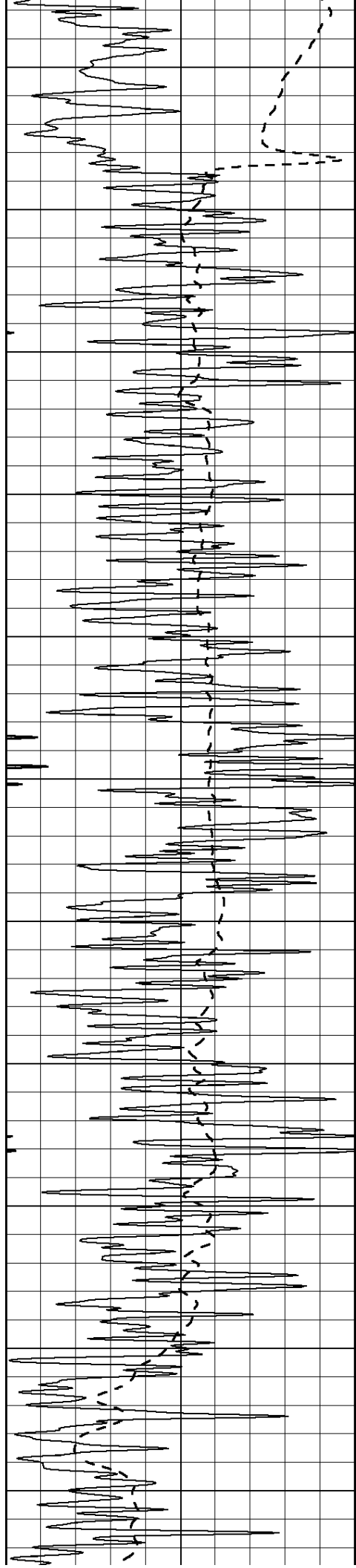
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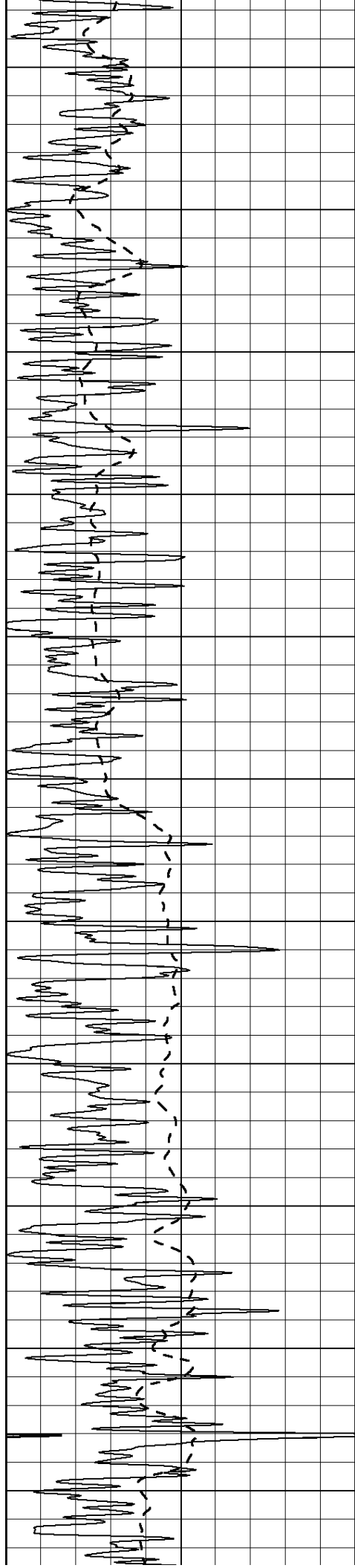
850

900

950







1550

1600

1650

1700

1750

1800

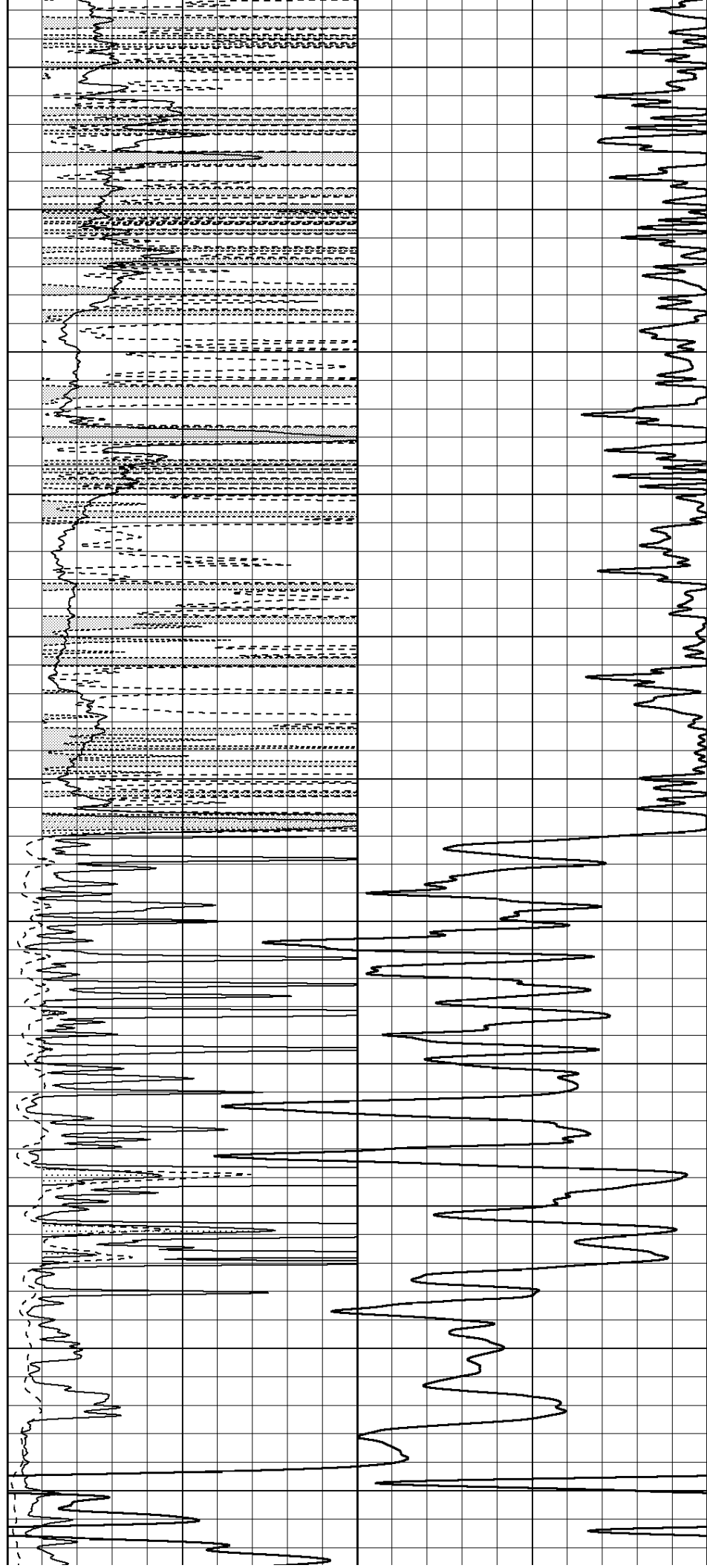
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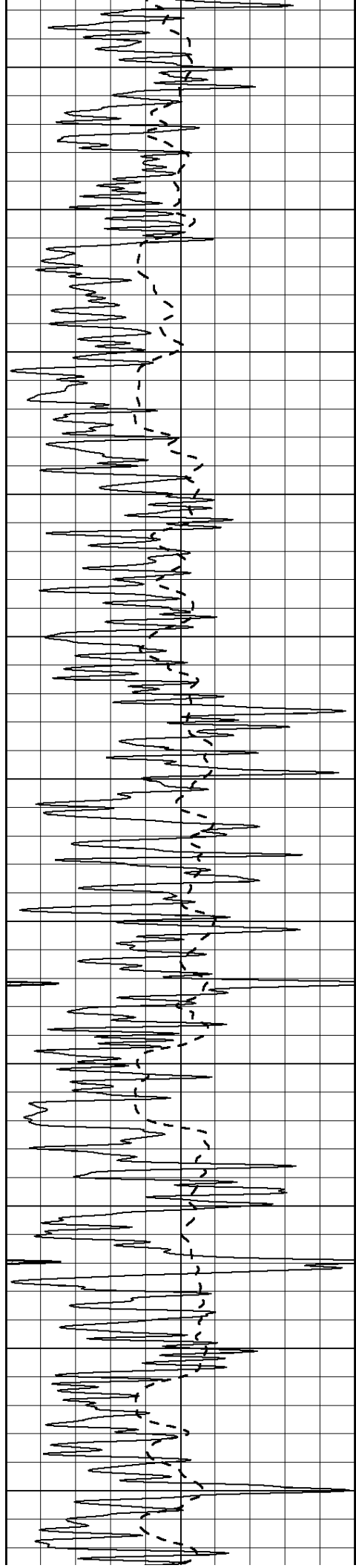
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1950

2000

2050





2100

2150

2200

2250

2300

2350

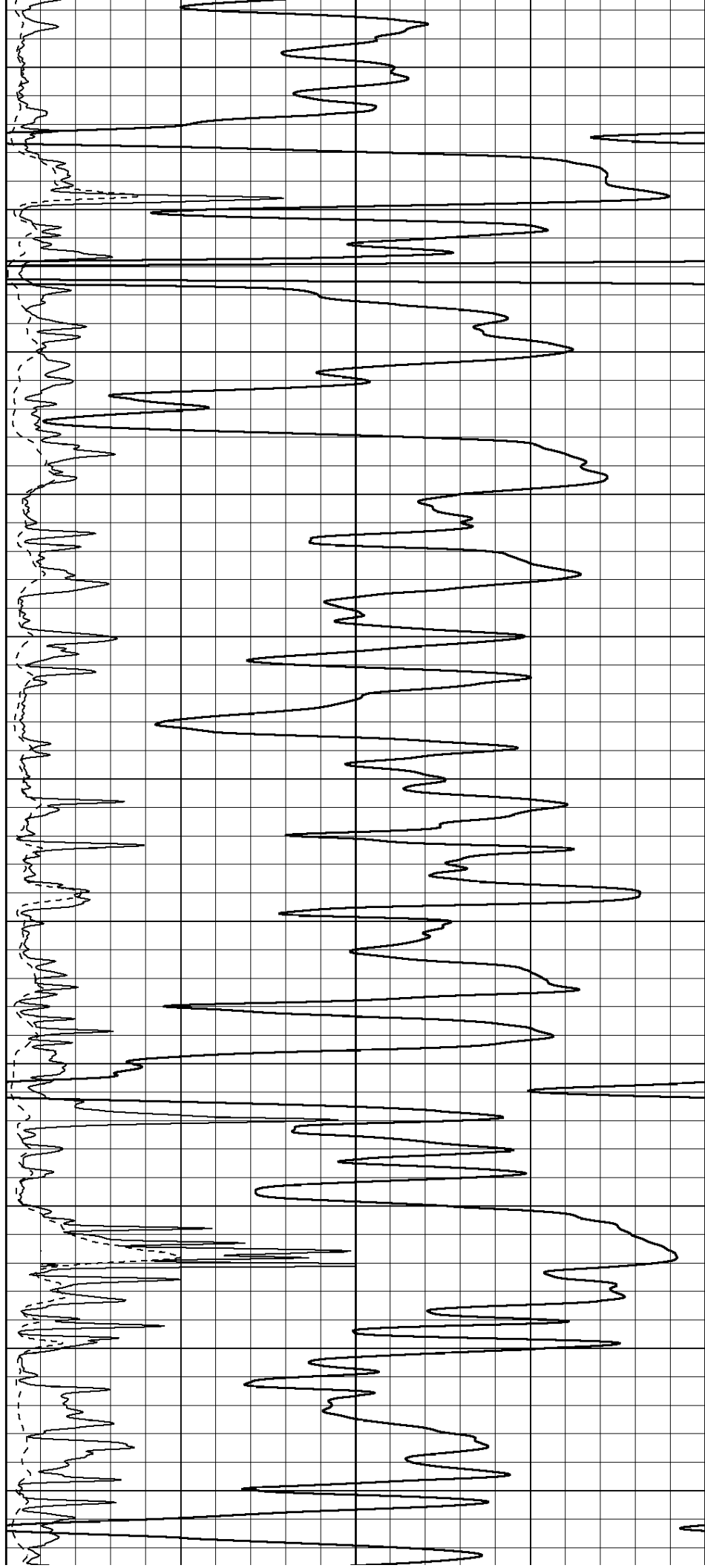
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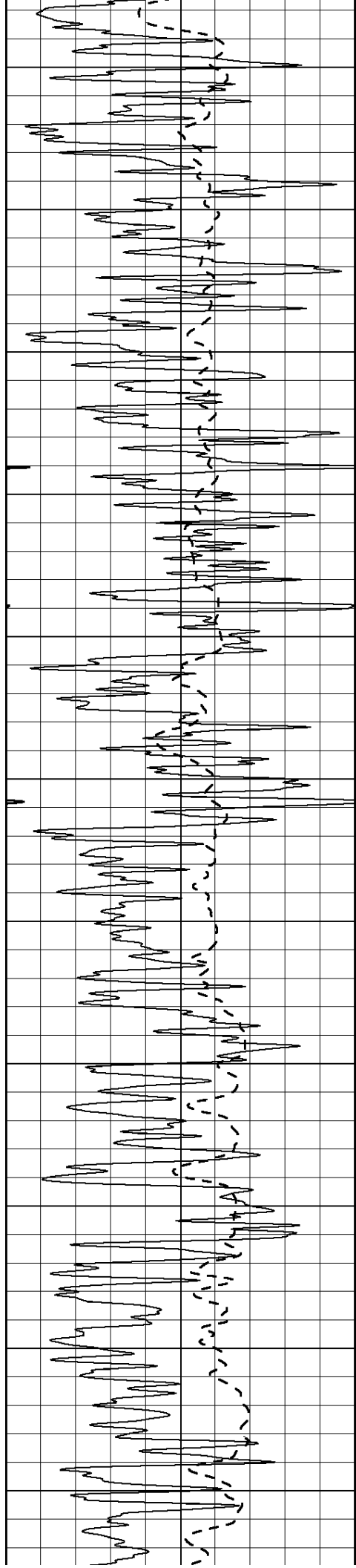
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2500

2550

2600





2650

2700

2750

2800

2850

2900

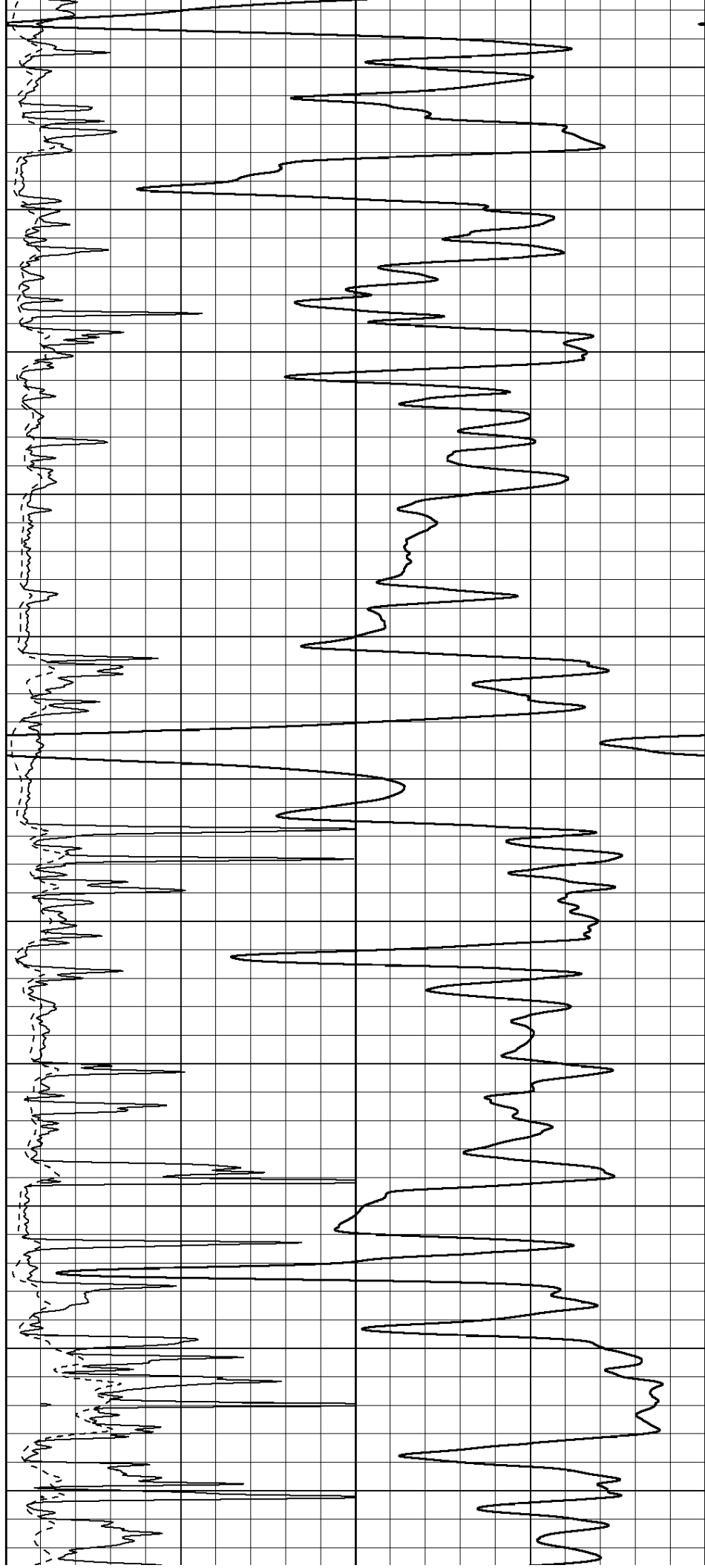
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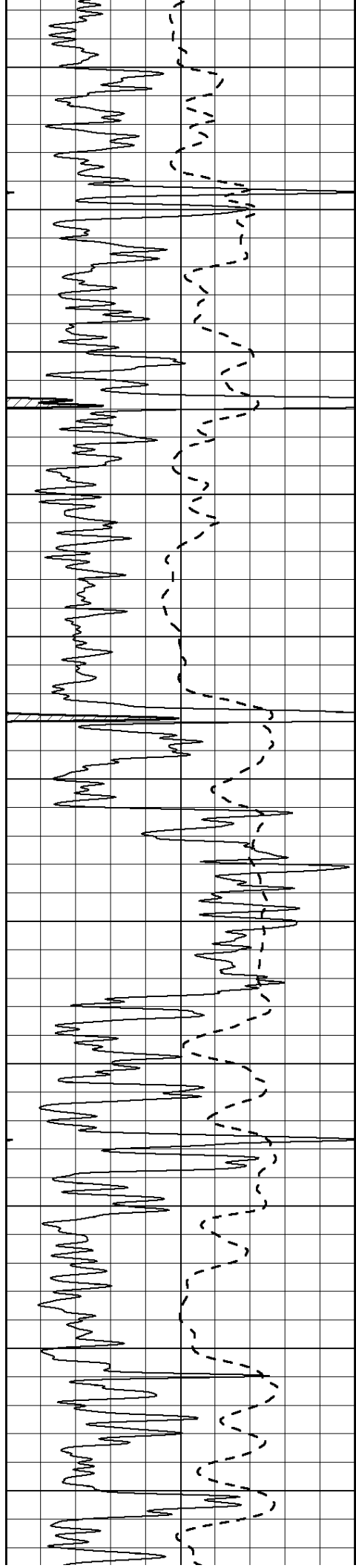
3000

3050

3100

3150





3200

3250

3300

3350

3400

3450

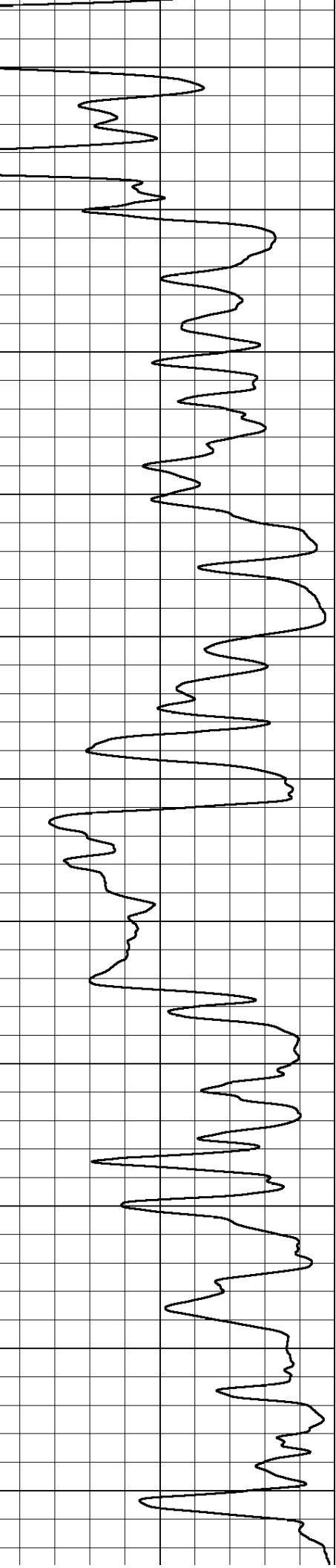
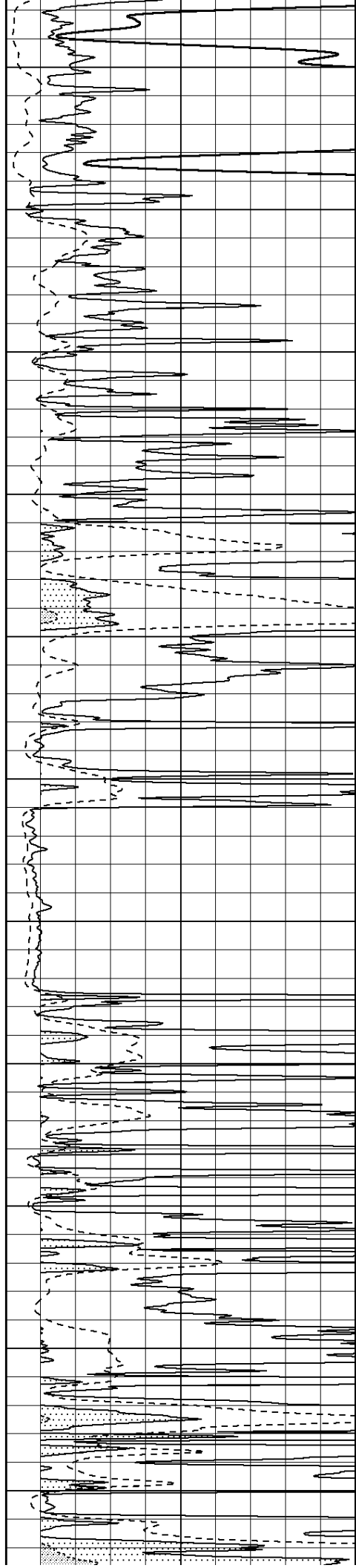
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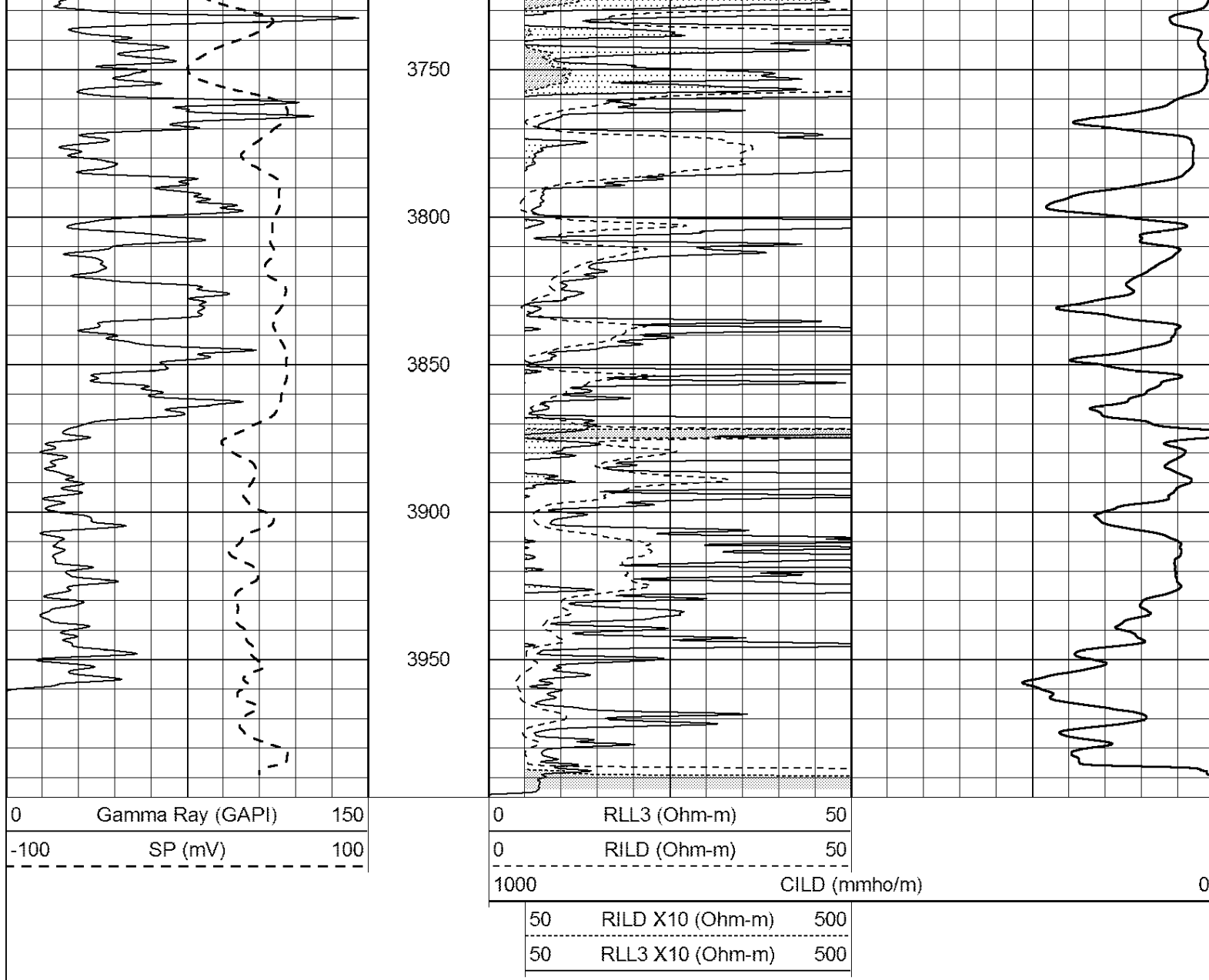
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3600

3650

3700





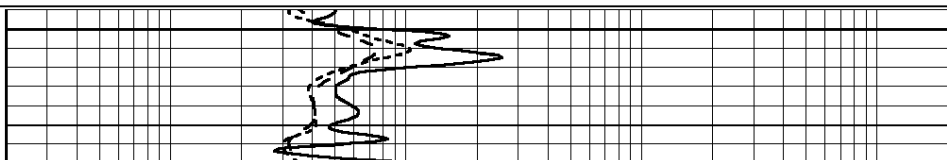
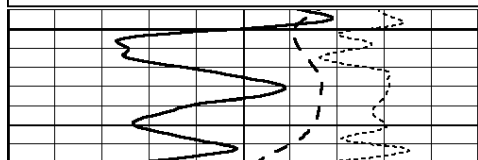
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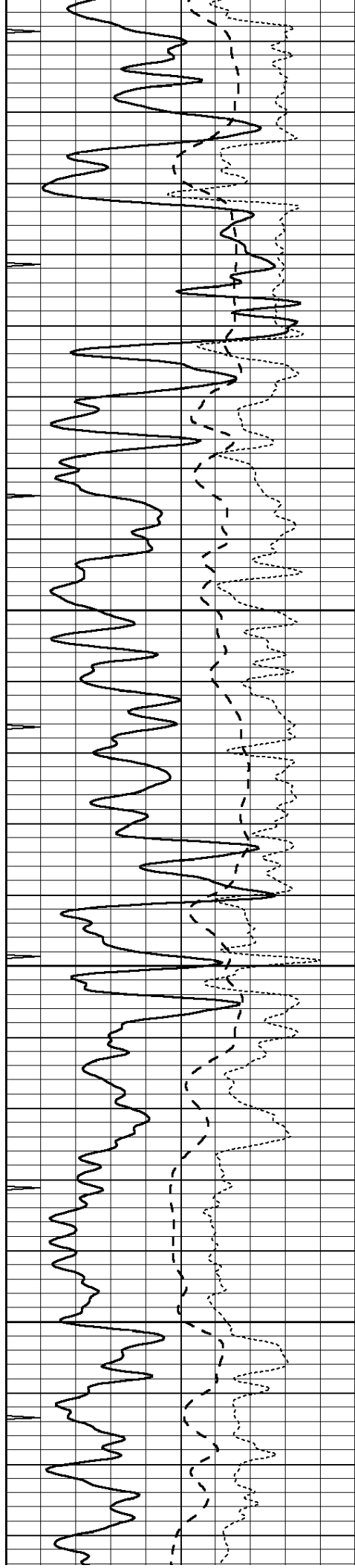
MAIN SECTION

Database File: 006965pe.db
 Dataset Pathname: pass6.6
 Presentation Format: dil
 Dataset Creation: Mon Jun 06 20:23:06 2011 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	10

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



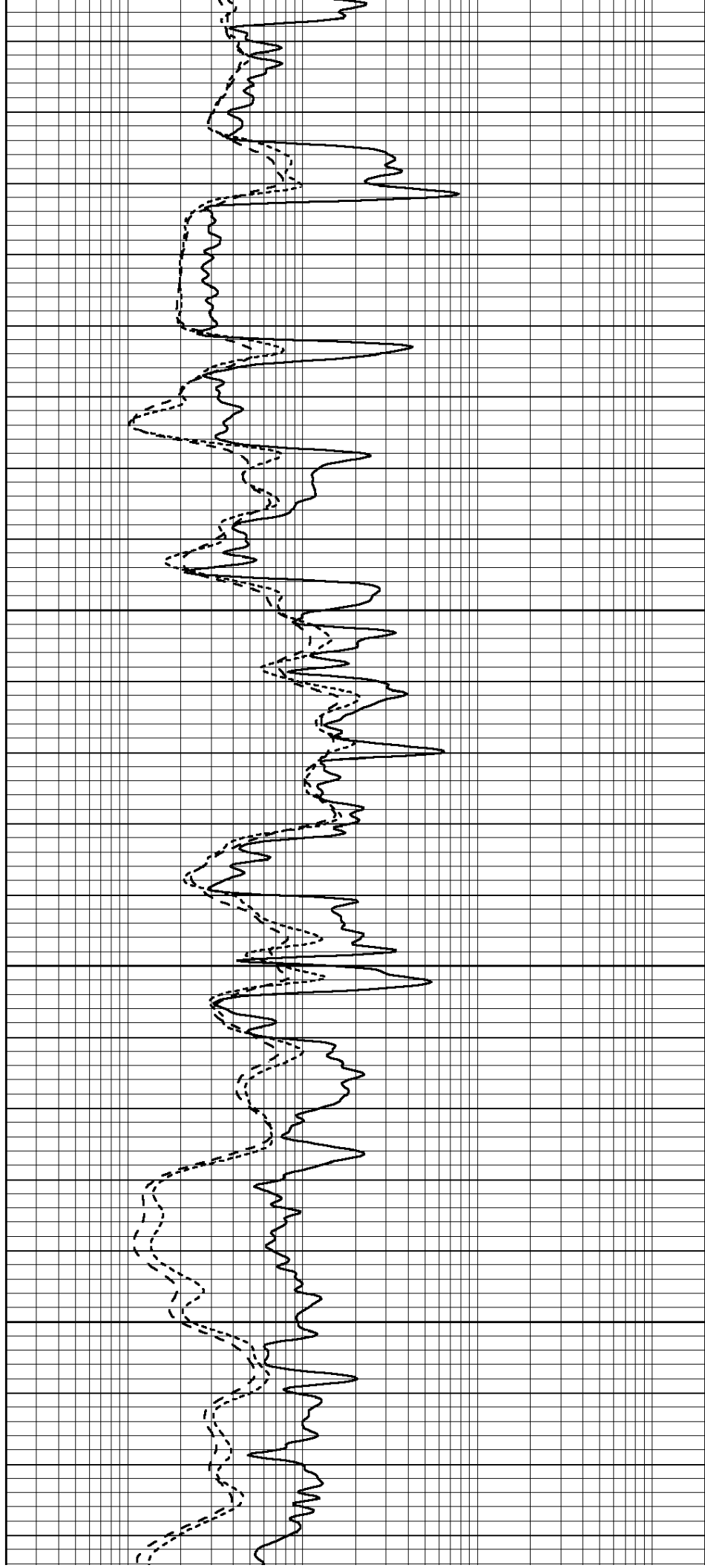


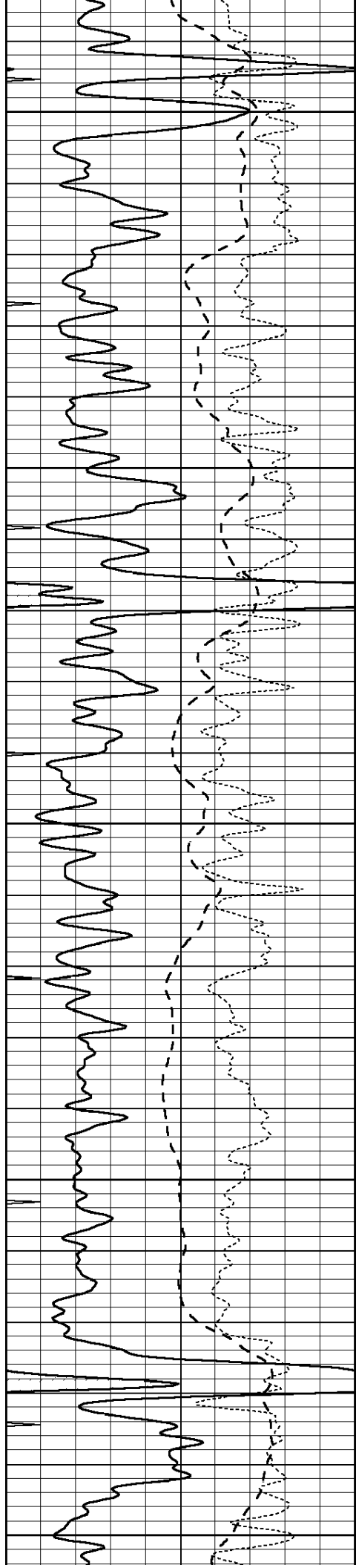
3050

3100

3150

3200





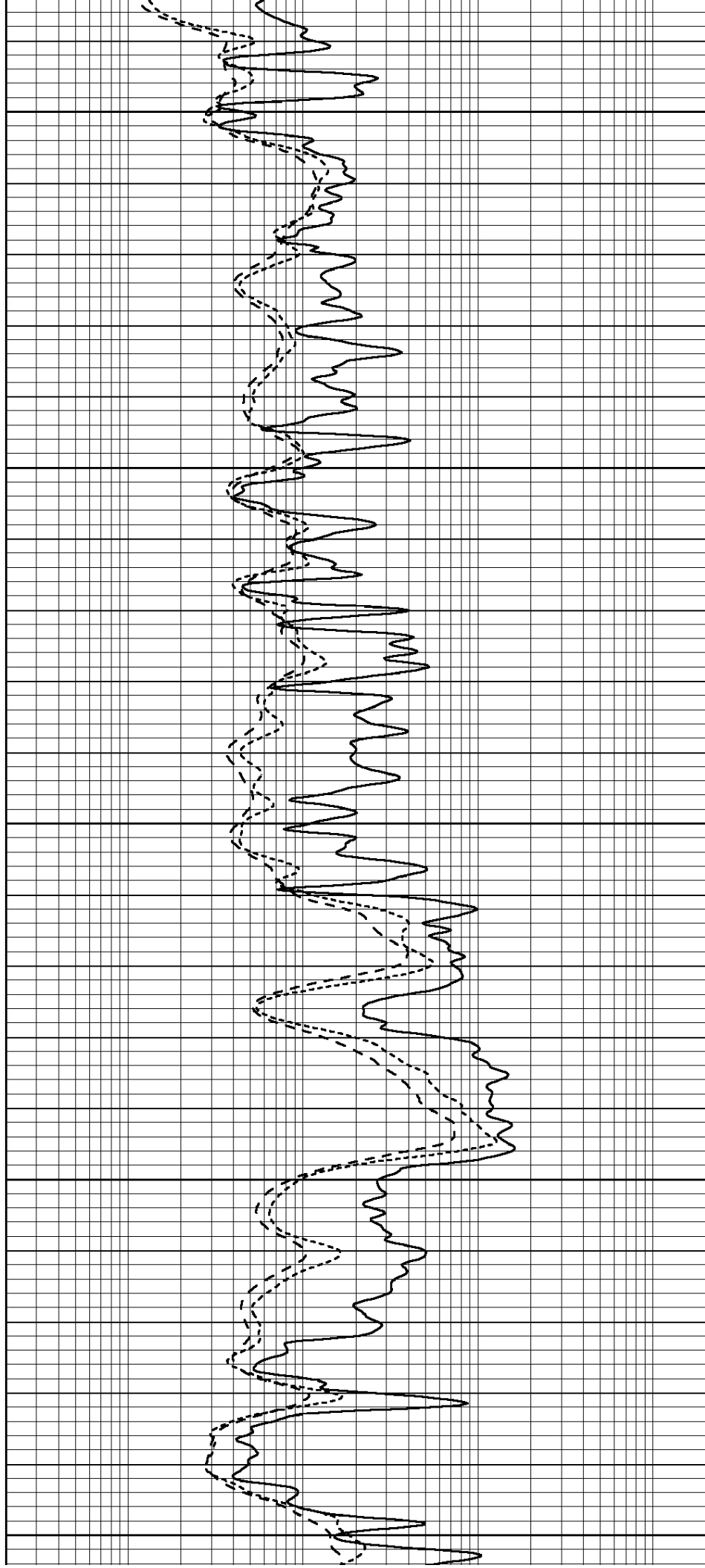
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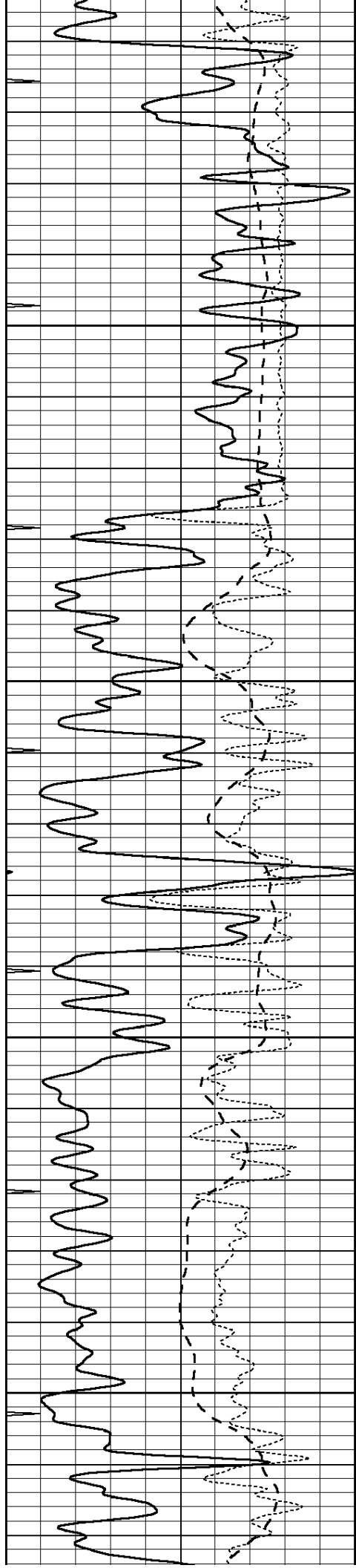
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3350

3400

3450



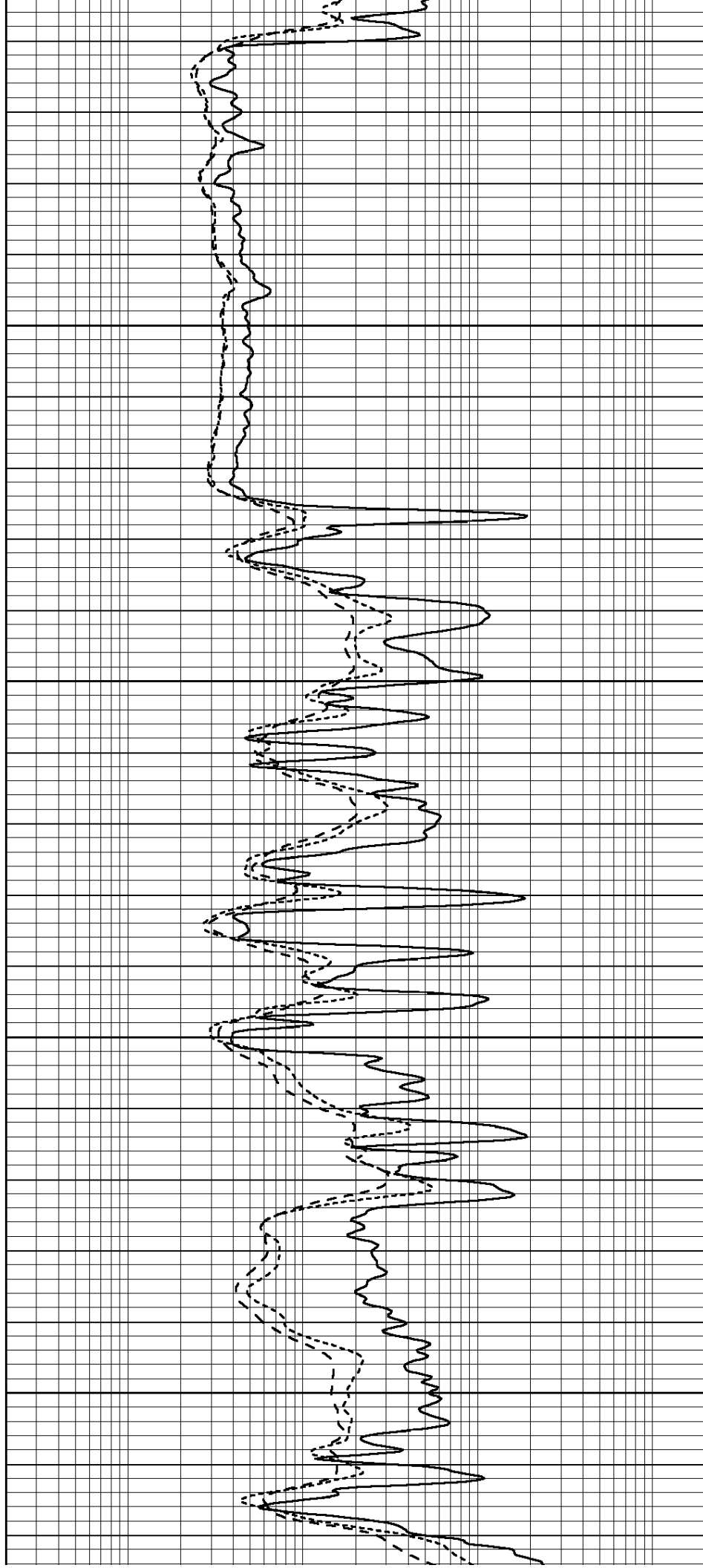


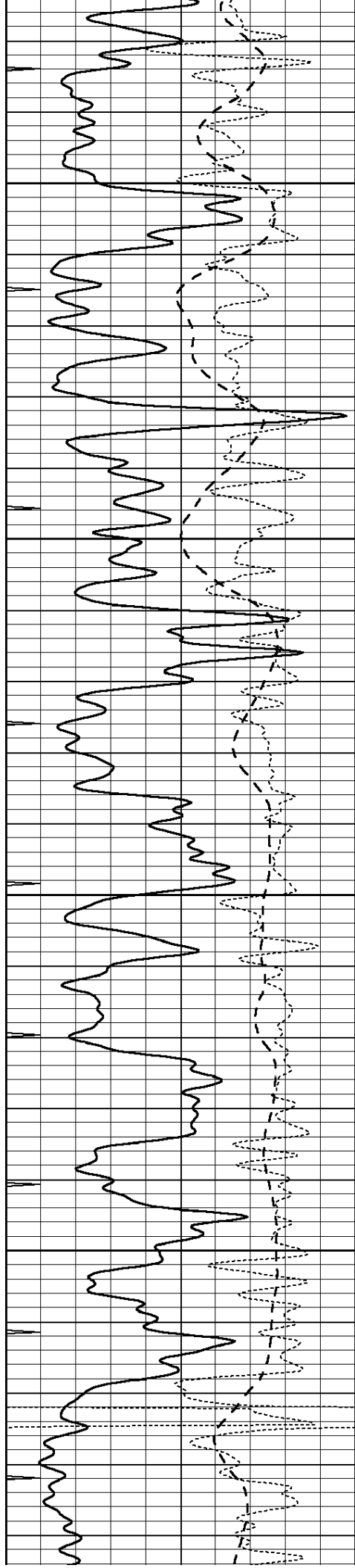
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3550

3600

3650



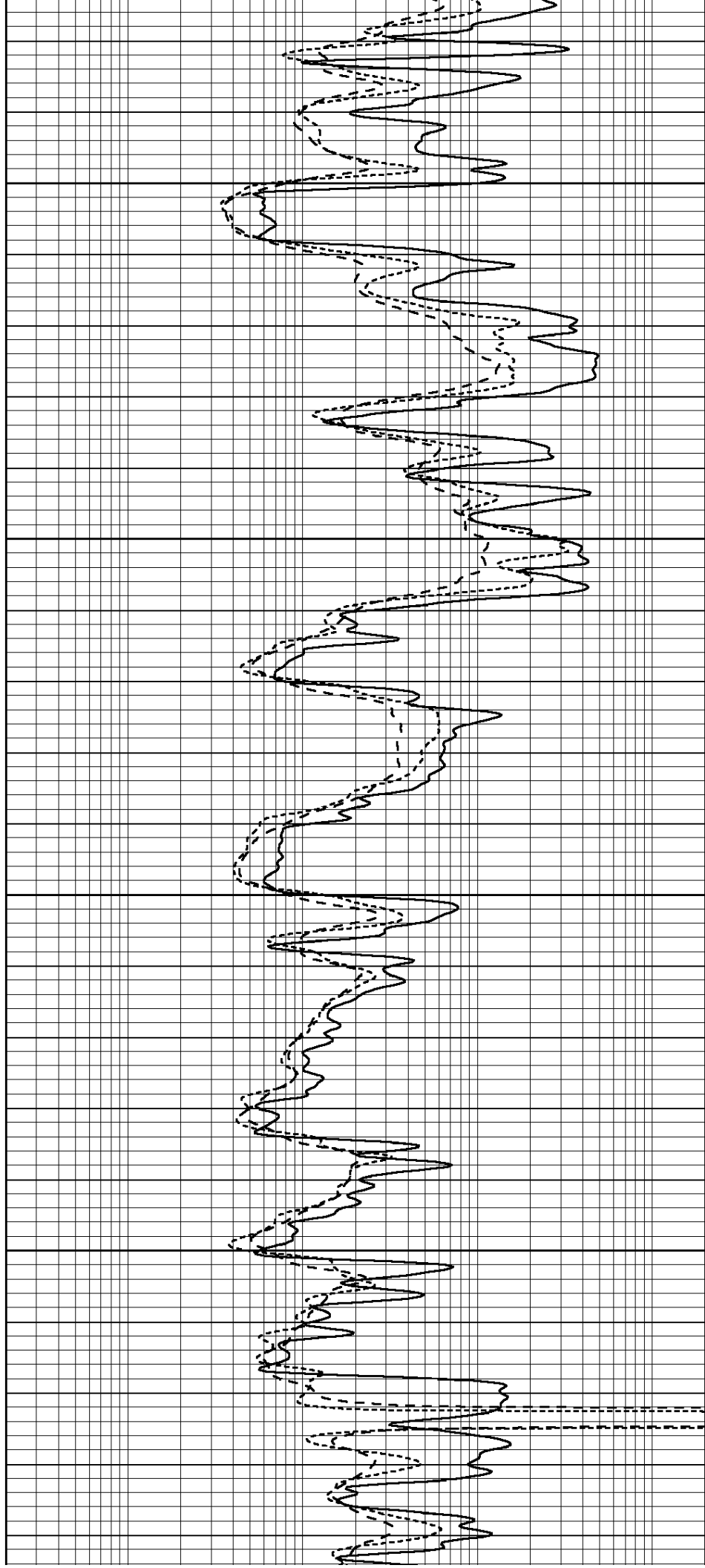


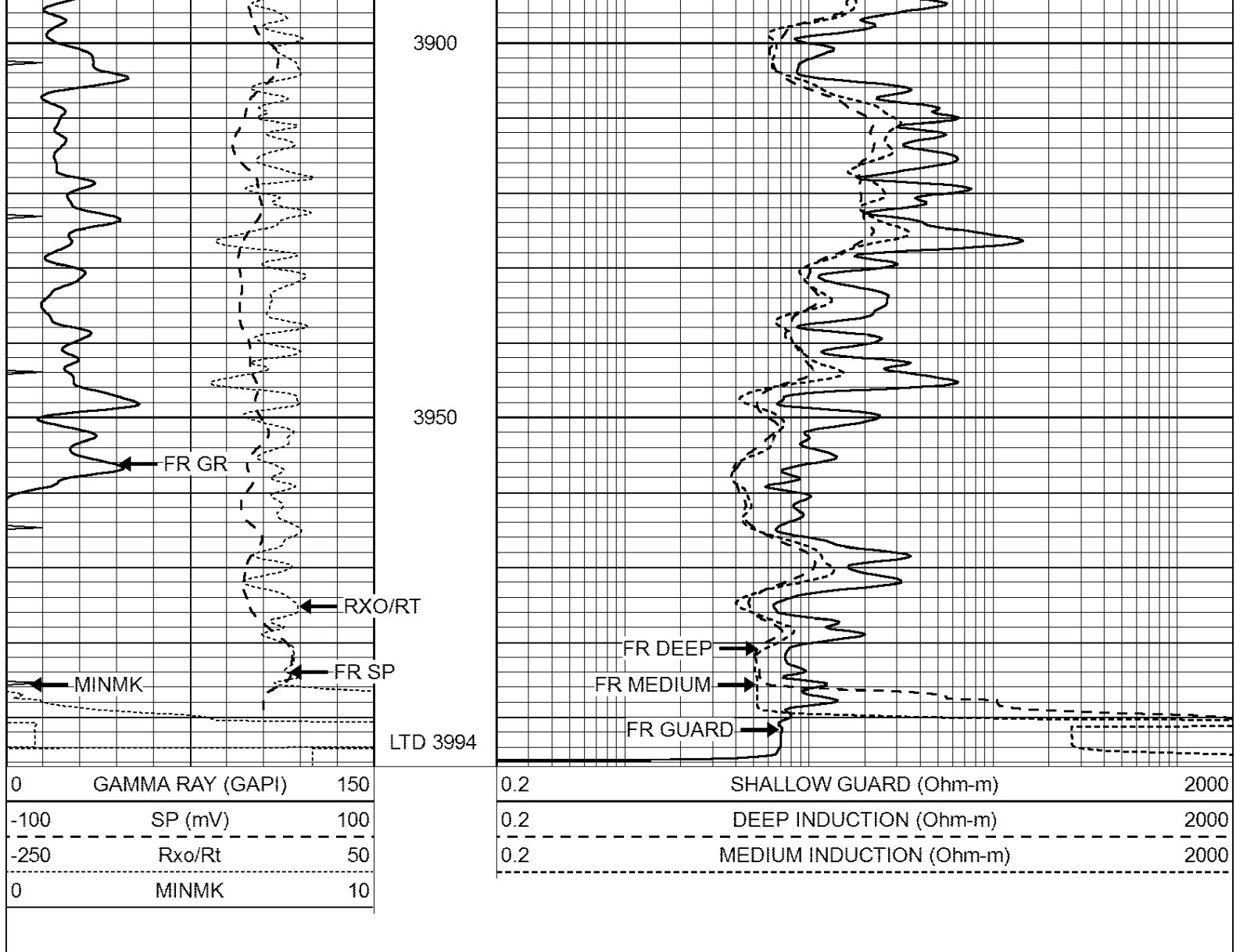
3700

3750

3800

3850





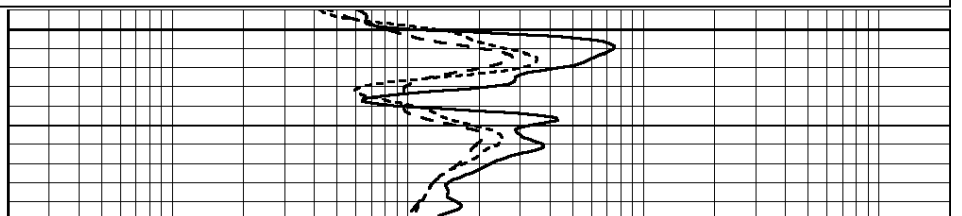
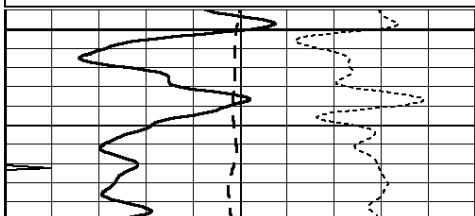
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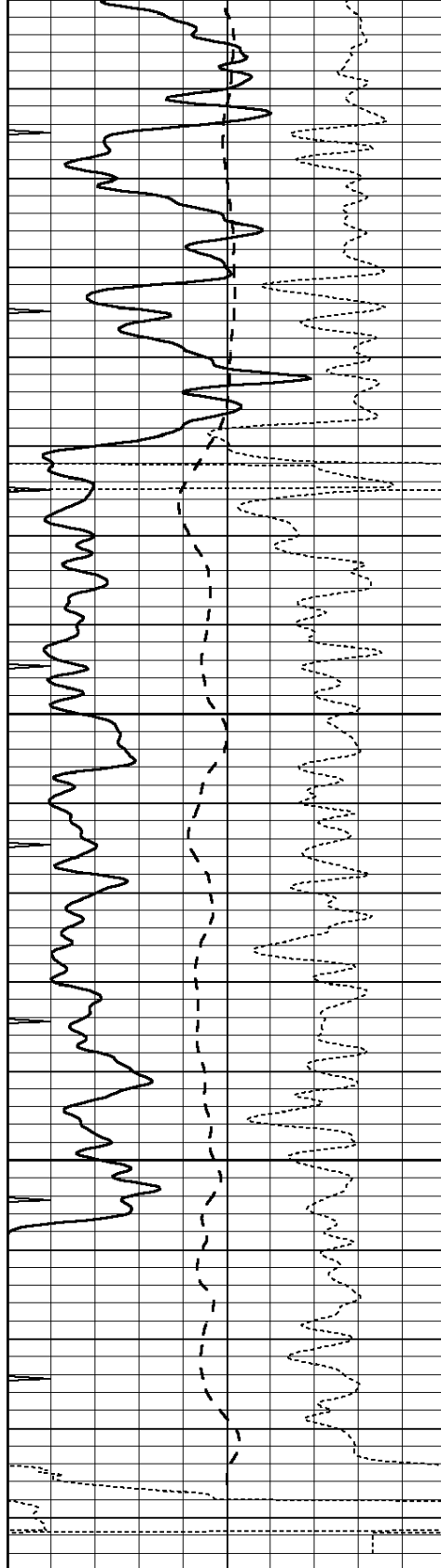
REPEAT SECTION

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 Dataset Pathname: pass5.5
 Presentation Format: dil
 Dataset Creation: Mon Jun 06 19:24:08 2011 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	10

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



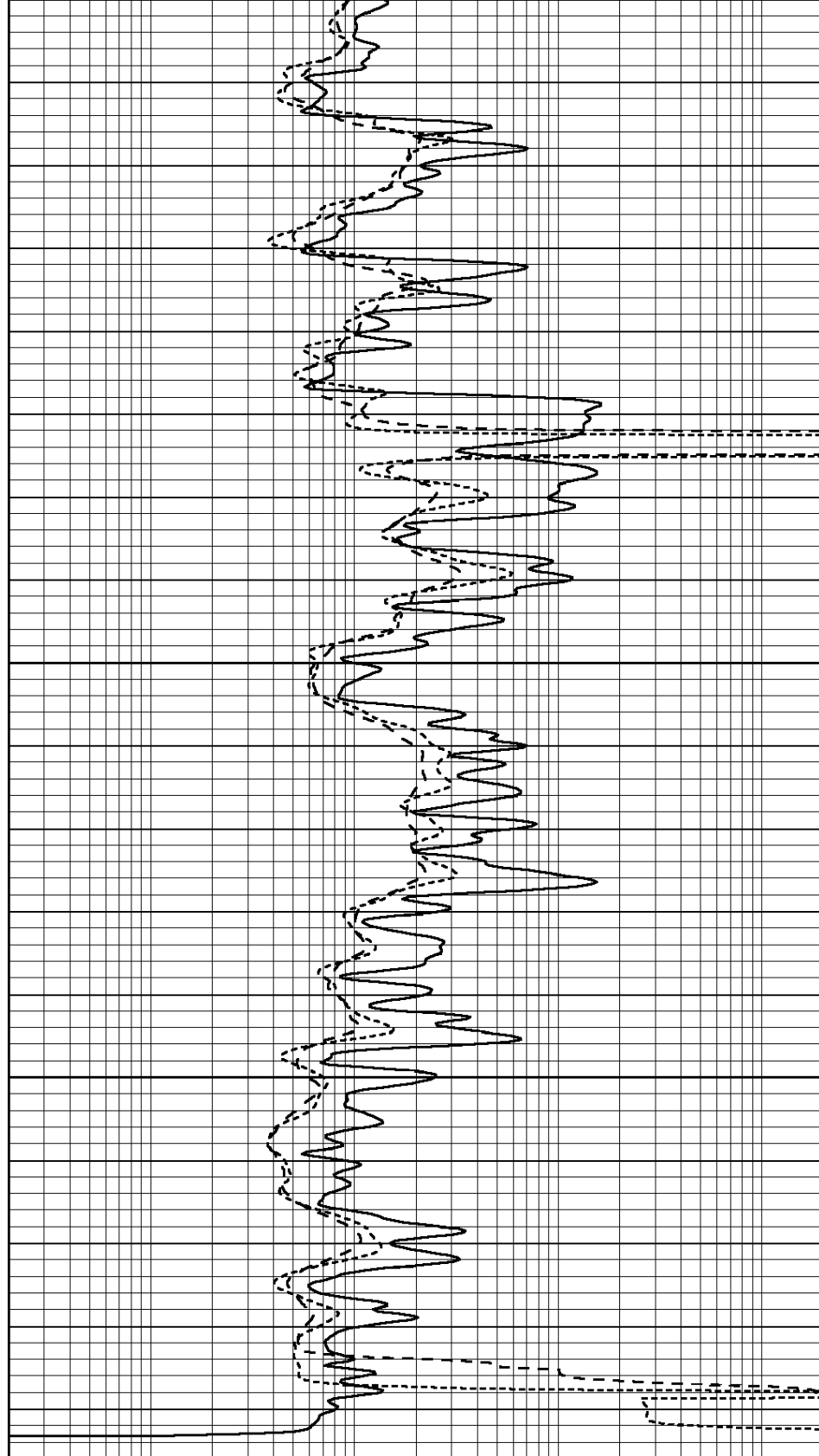


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

3850

3900

3950



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

Calibration Report

Database File: 006965pe.db
 Dataset Pathname: pass6.6
 Dataset Creation: Mon Jun 06 20:23:06 2011 by Calc Open-Cased 110302

Dual Induction Calibration Report								
Serial-Model: Performed:			DIL3-GEAR Mon Jun 06 19:44:10 2011					
Readings			References			Results		
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	8.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

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	2.2	7.8
High Ref	4.7	15.0
	Gain: 2.9	Offset: 1.3

Compensated Neutron Calibration Report	
Serial Number:	NEU_4I
Tool Model:	G

CALIBRATION					
Detector	Readings		Target		Normalization
Short Space	996.00	cps	1000.00	cps	1.0000
Long Space	977.00	cps	1000.00	cps	1.0000

Gamma Ray Calibration Report		
Serial Number:	GR4	
Tool Model:	OPEN	
Performed:	Mon Jun 06 18:49:23 2011	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	6.5000	GAPI/cps

