



SUPERIOR
Hays,
Kansas

DUAL
INDUCTION
LOG

Company	CHARTER ENERGY, INC.		
Well	BLAKESLEE #1		
Field	GATES		
County	STAFFORD	State	KANSAS
Location:	API # : 15-185-23609-0000		Other Services CDL/CNL MEL
400' FSL & 960' FEL NE - SW - SE - SE			
SEC 4 TWP 22S RGE 13W			Elevation K.B. 1894 D.F. 1892 G.L. 1889
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	3-4-10		
Run Number	CNE		
Depth Driller	3775		
Depth Logger	3777		
Bottom Logged Interval	3775		
Top Log Interval	0		
Casing Driller	8 5/8" @ 301		
Casing Logger	302		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7800 PPM	
Density / Viscosity	9.3/58		
pH / Fluid Loss	10.0/12.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.80 @ 52F		
Rmf @ Meas. Temp	0.60 @ 52F		
Rmc @ Meas. Temp	0.96 @ 52F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	0.36 @ 114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	114F		
Equipment Number	680		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	JOSH AUSTIN		

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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.

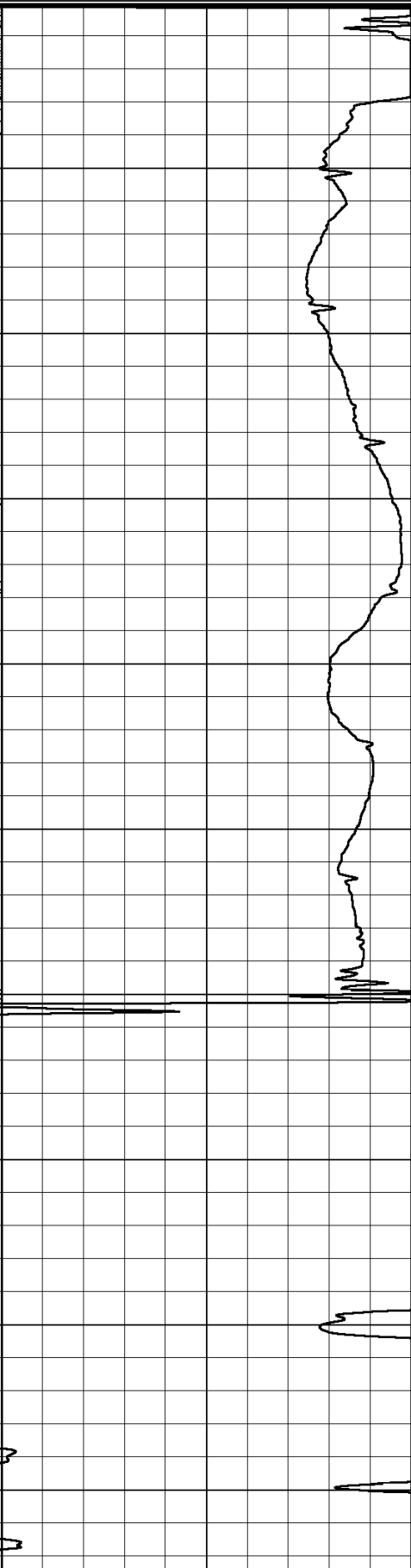
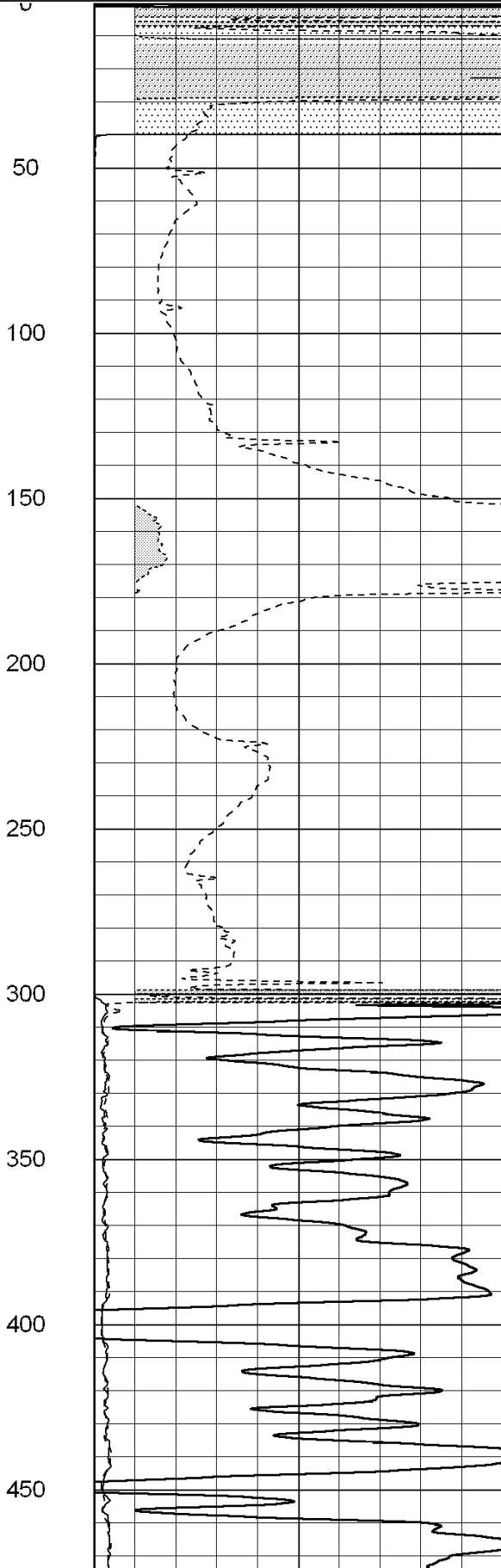
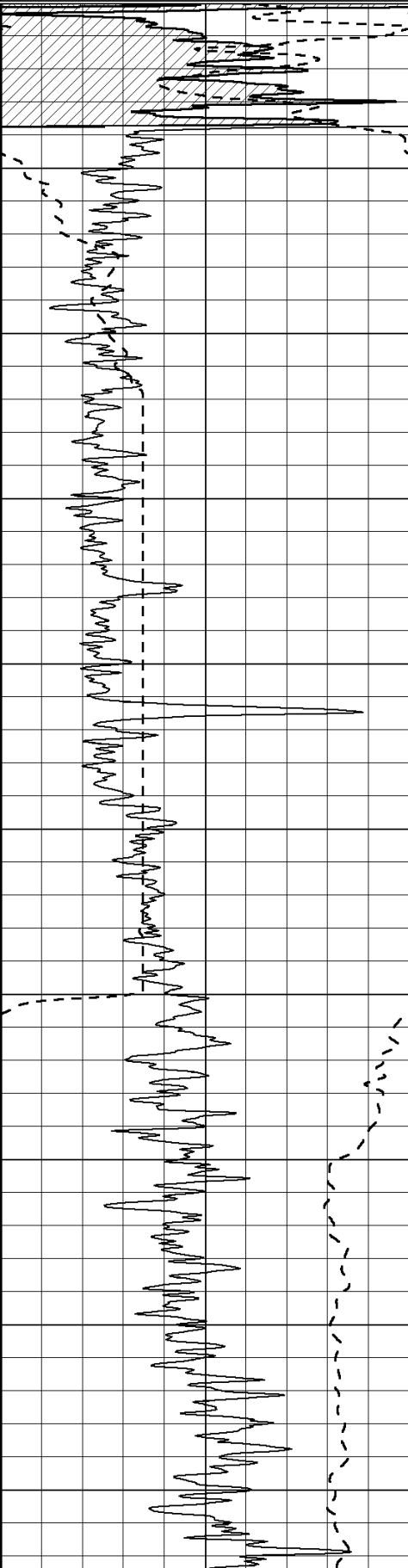
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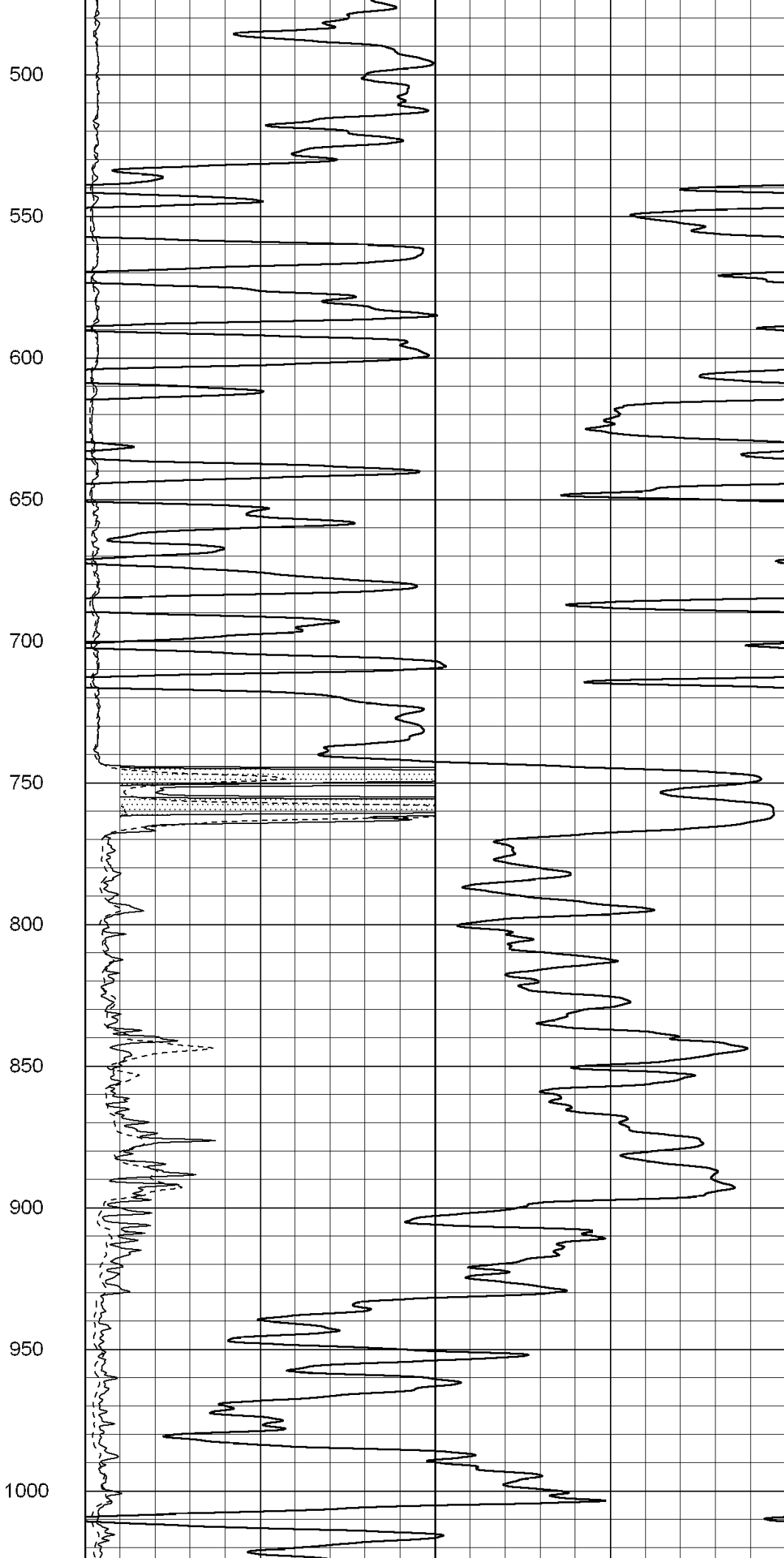
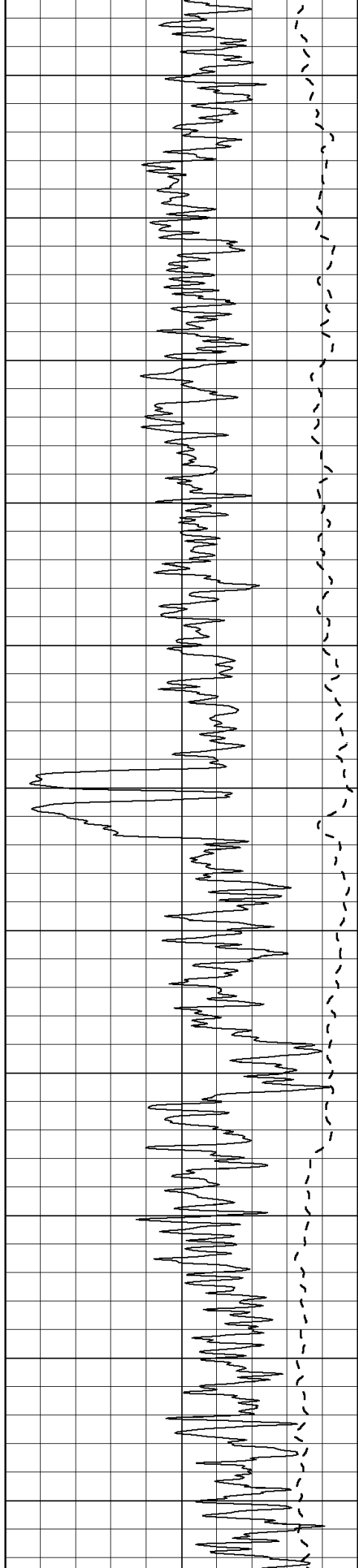
THANK YOU FOR USING SUPERIOR WELL SERVICES HAYS, KANSAS (785)628-6395
DIRECTIONS
GREAT BEND, KS - SOUTH TO HWY K-19 - 1/4 MILE WEST
NORTH INTO

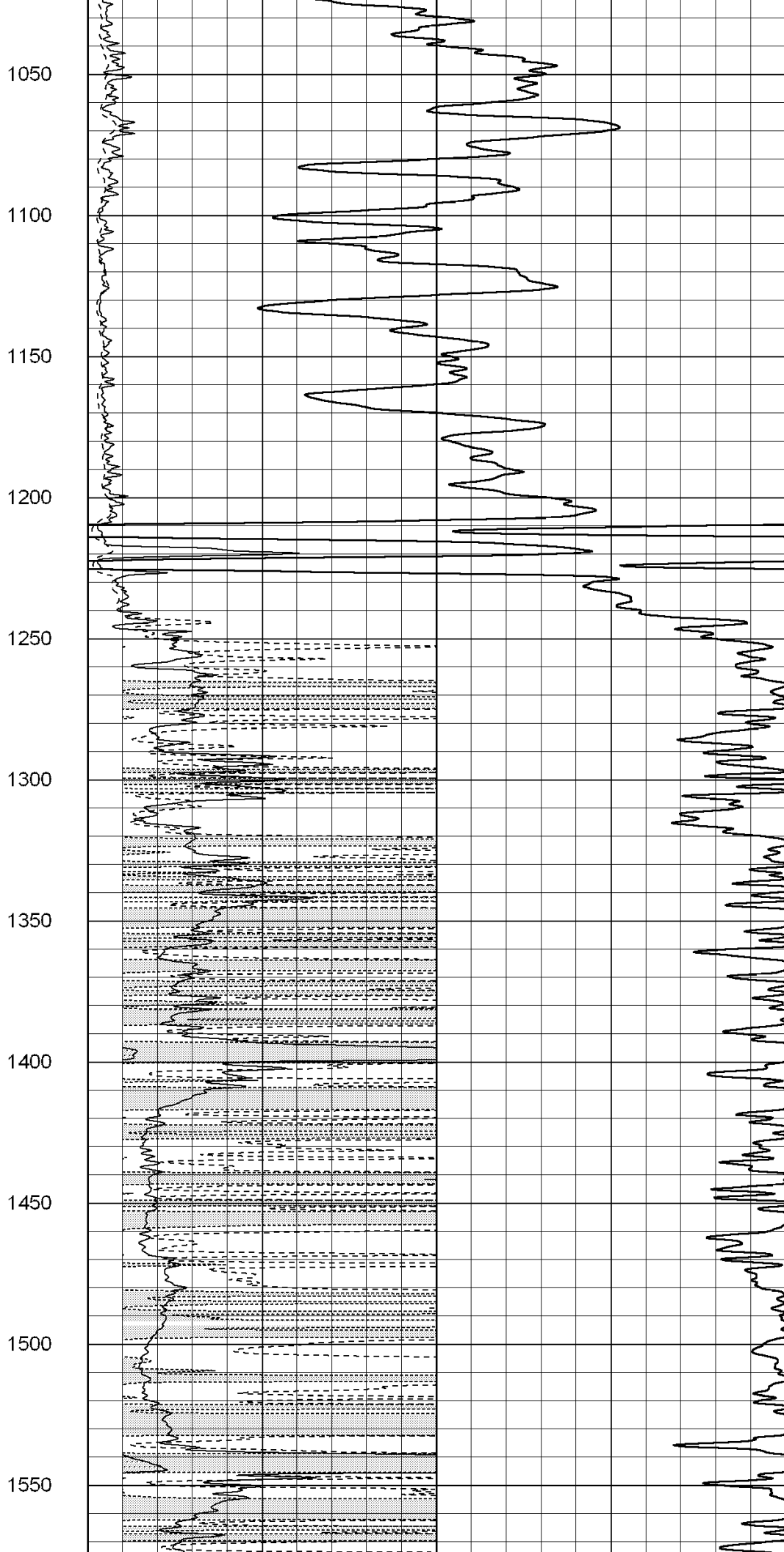
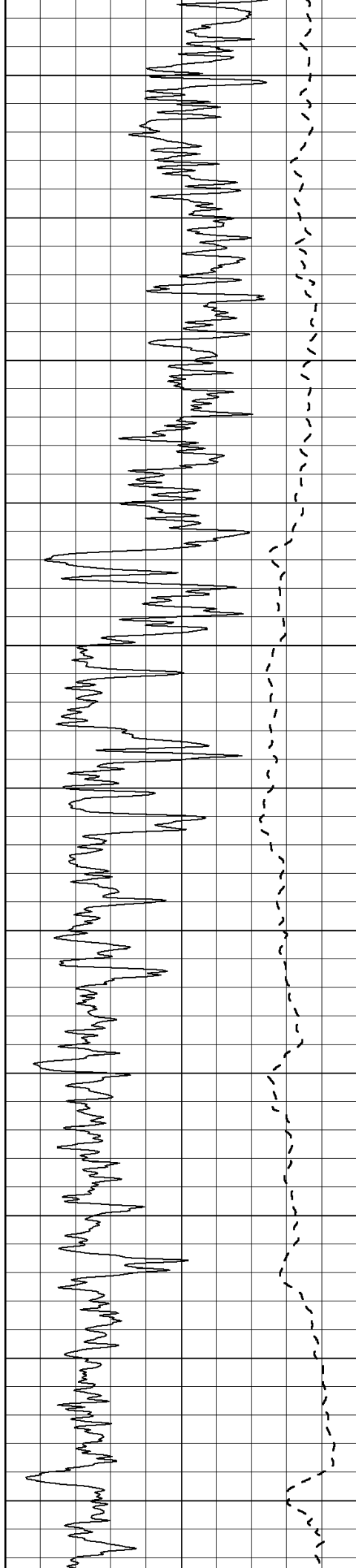
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

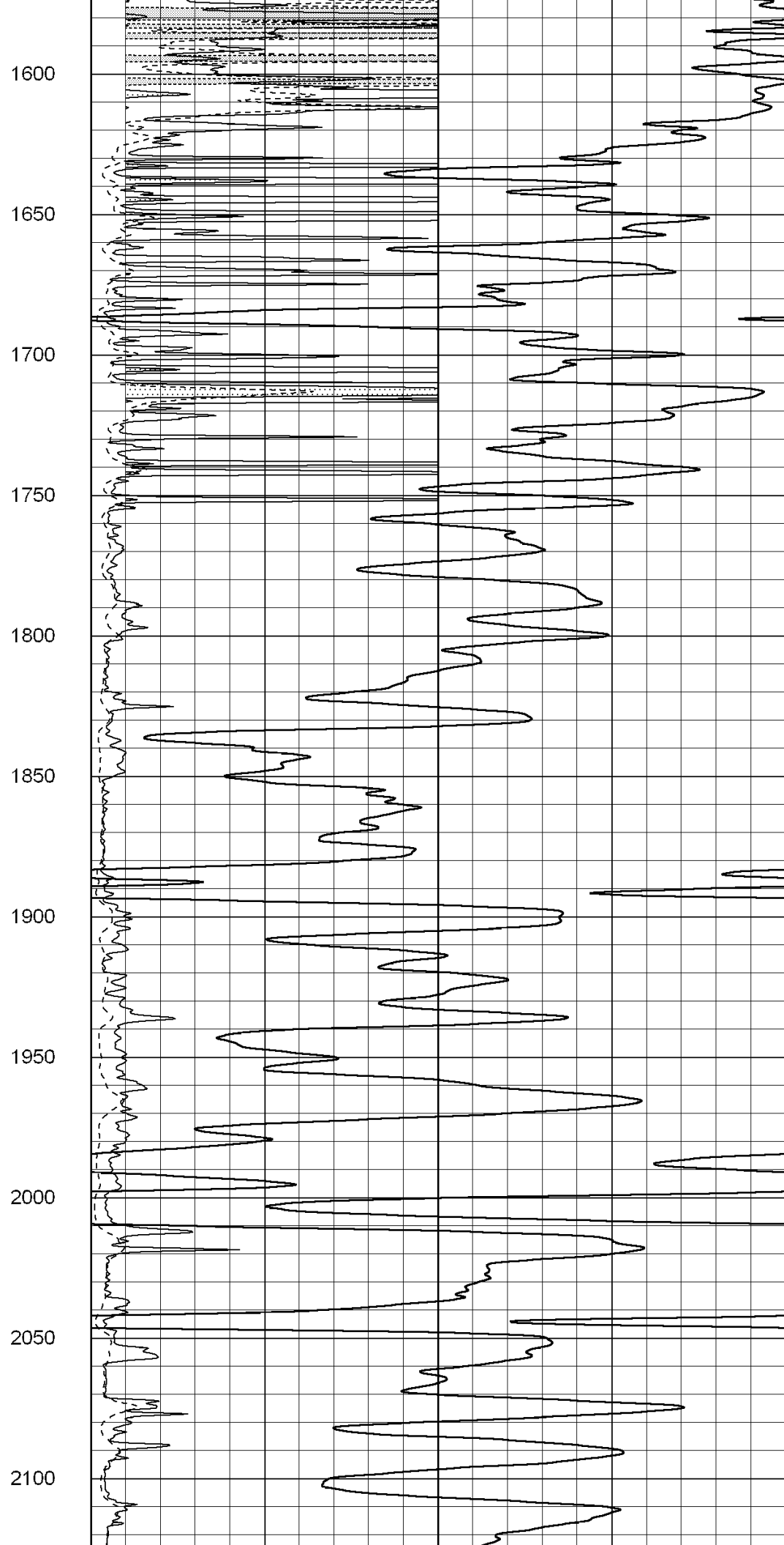
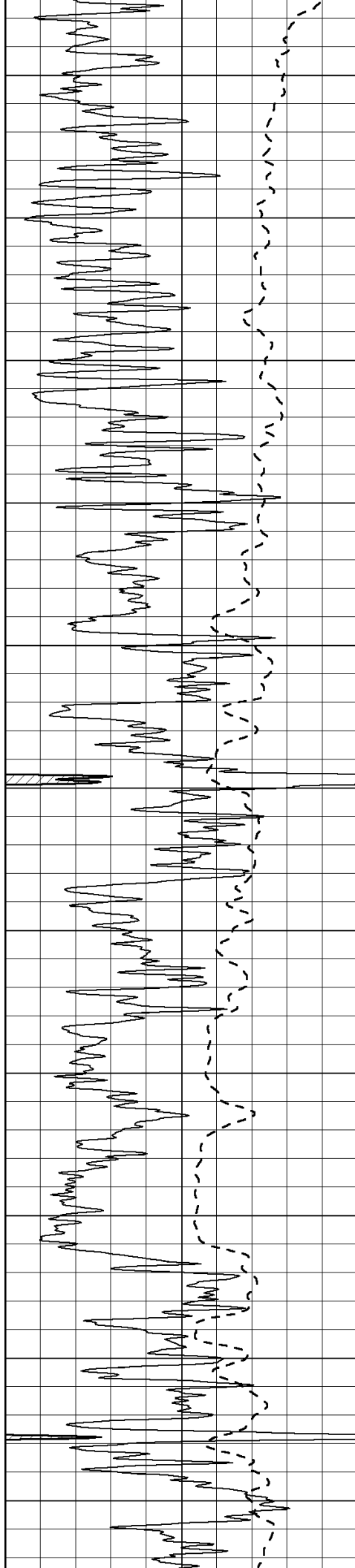
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

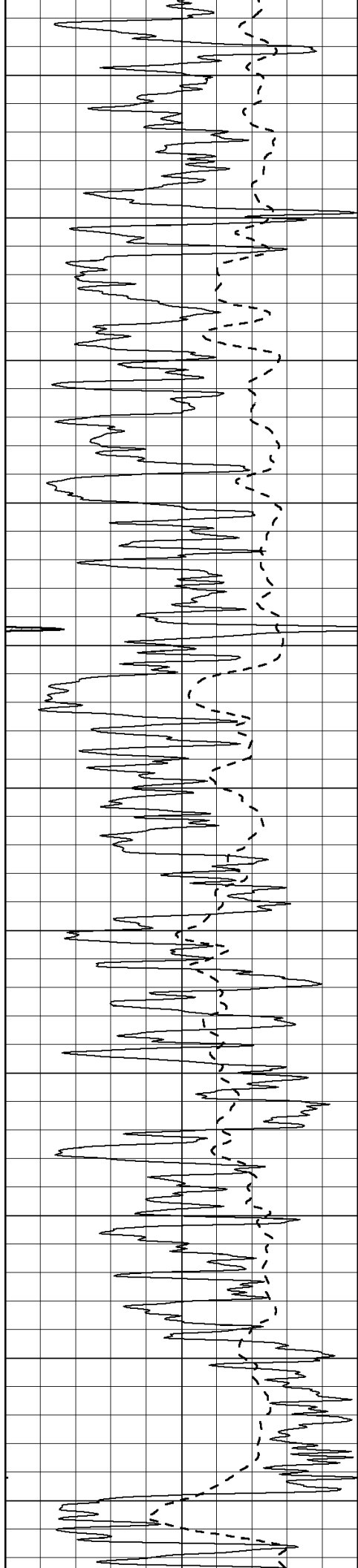
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500











2150

2200

2250

2300

2350

2400

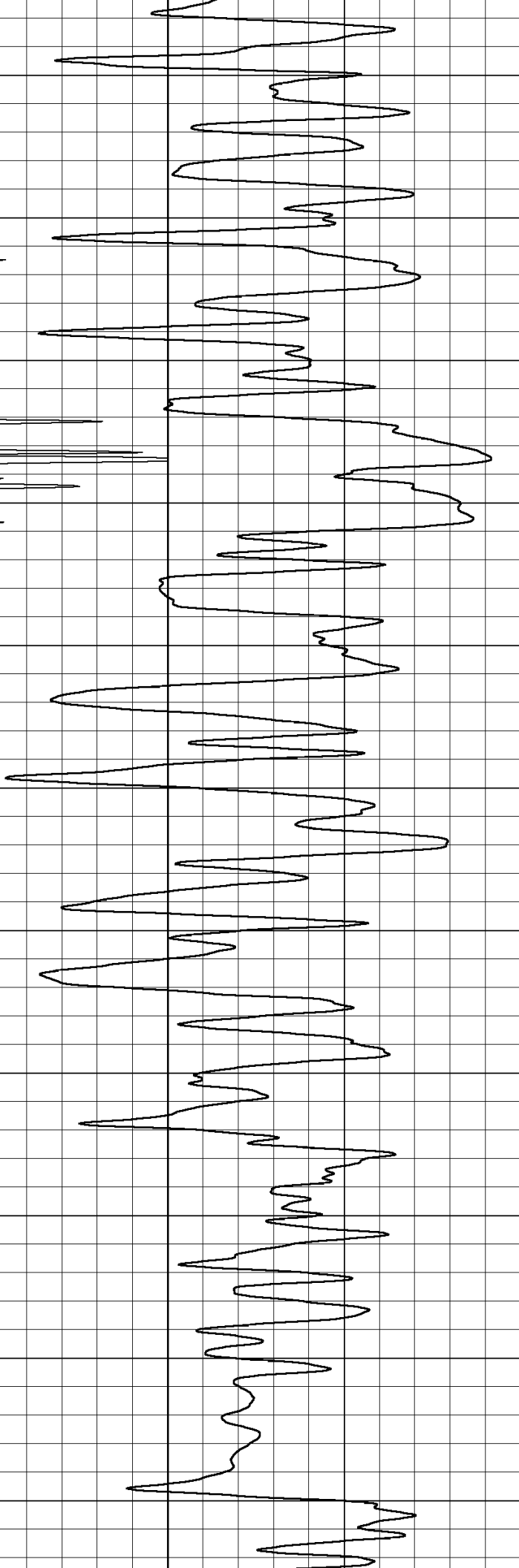
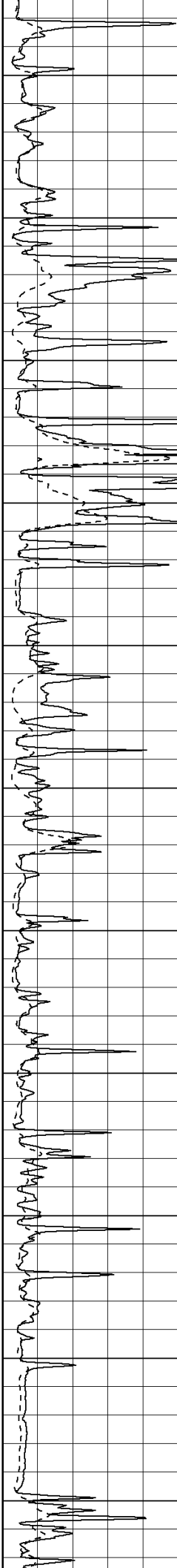
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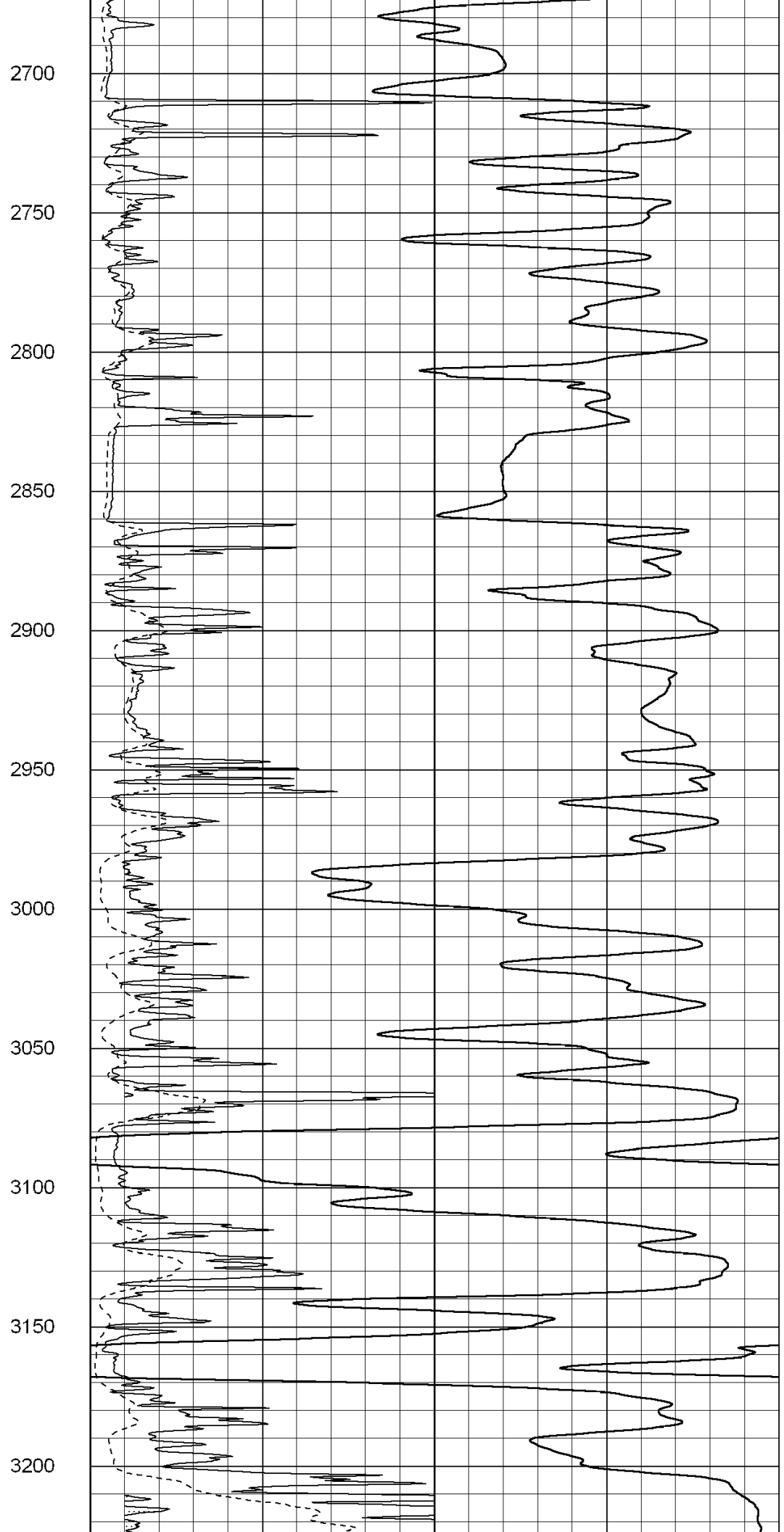
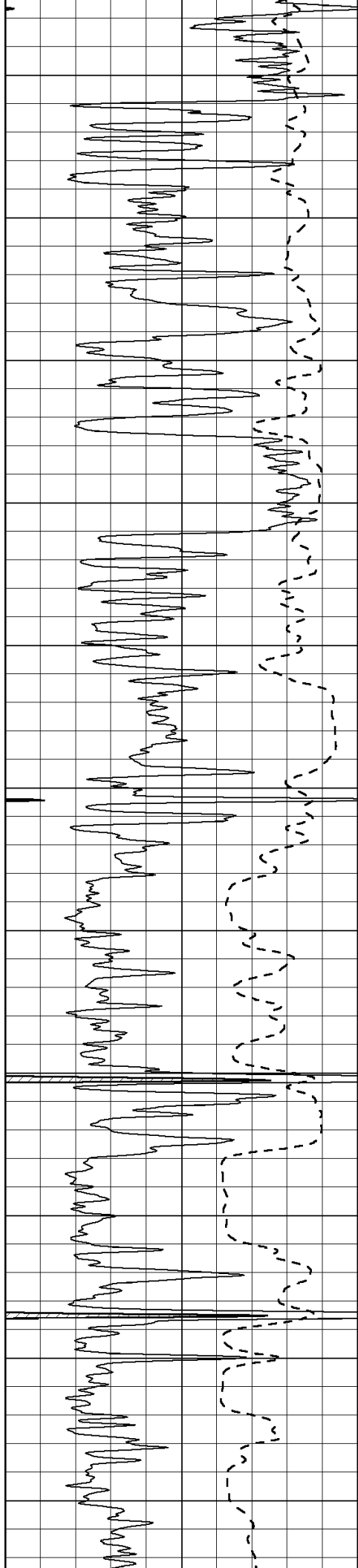
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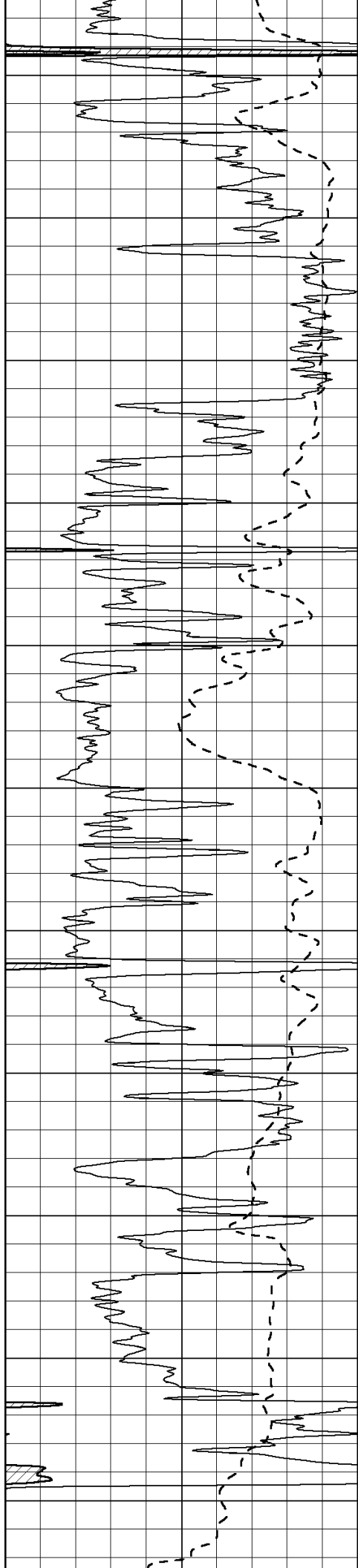
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3250

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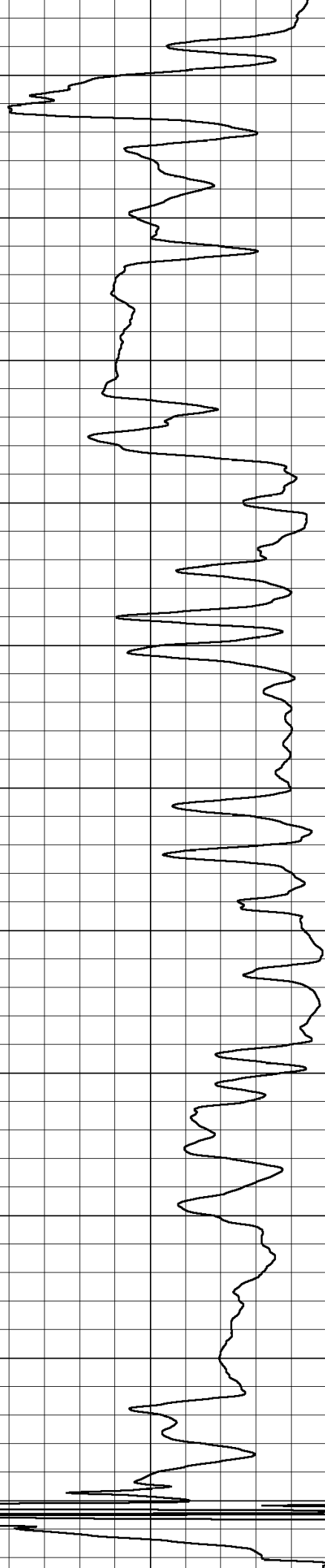
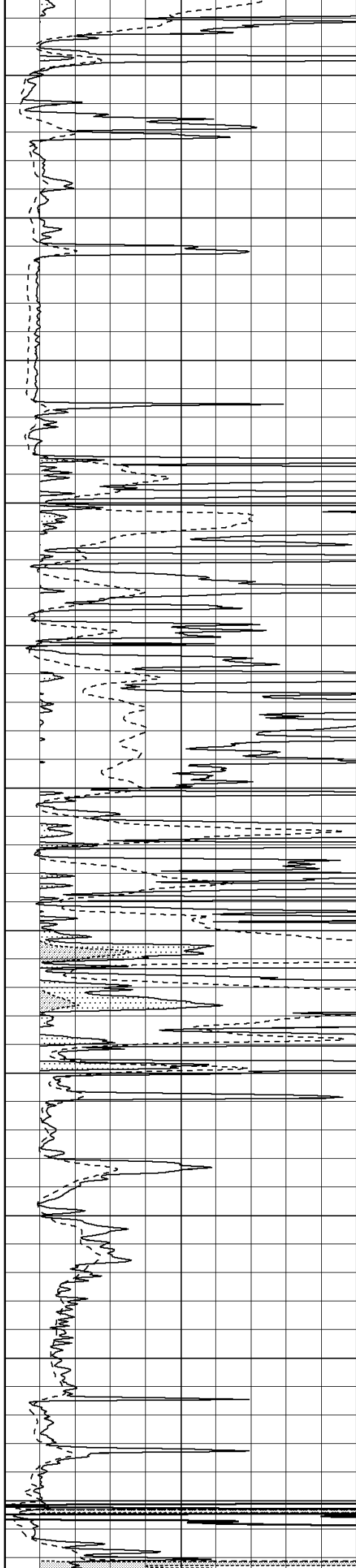
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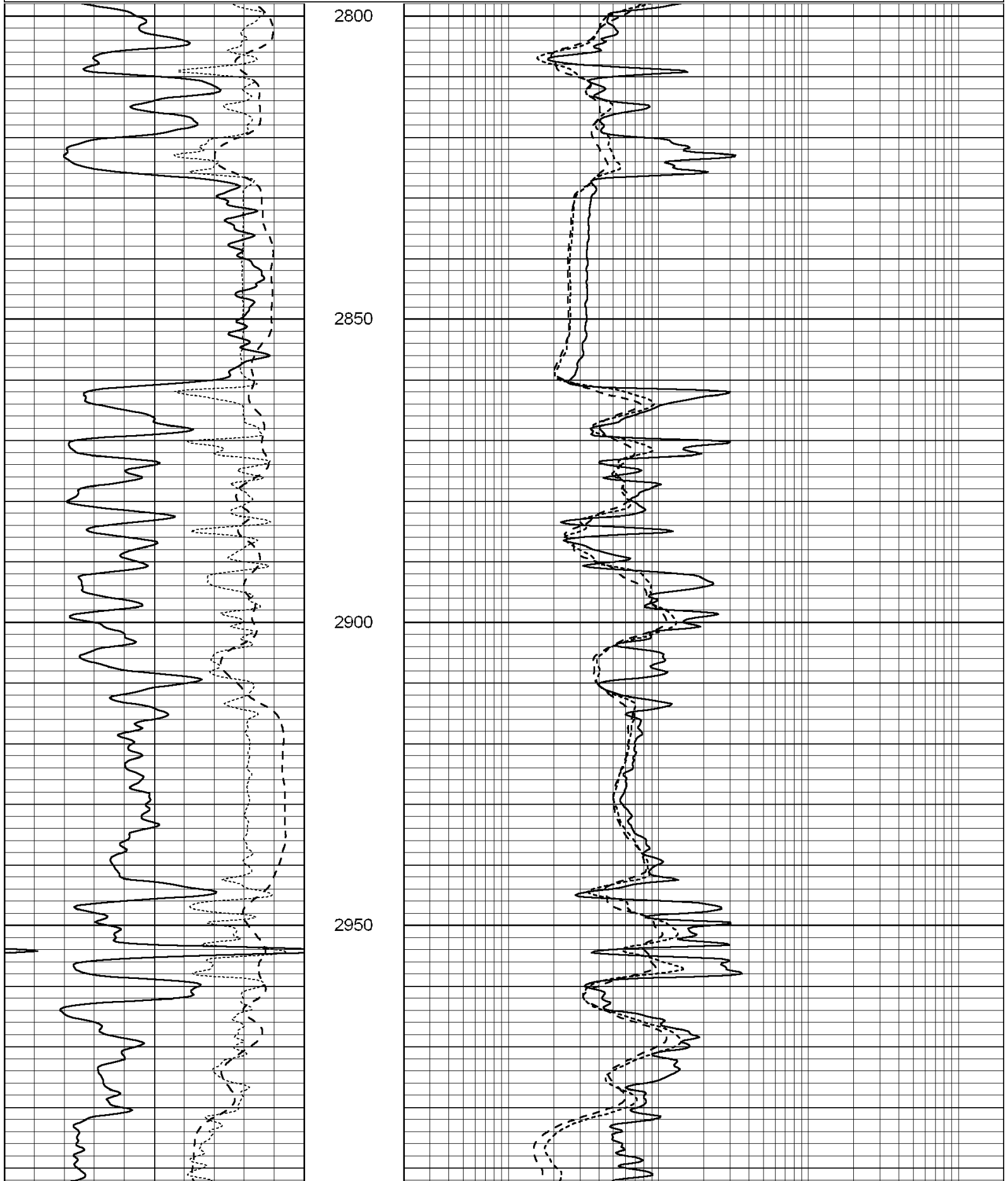
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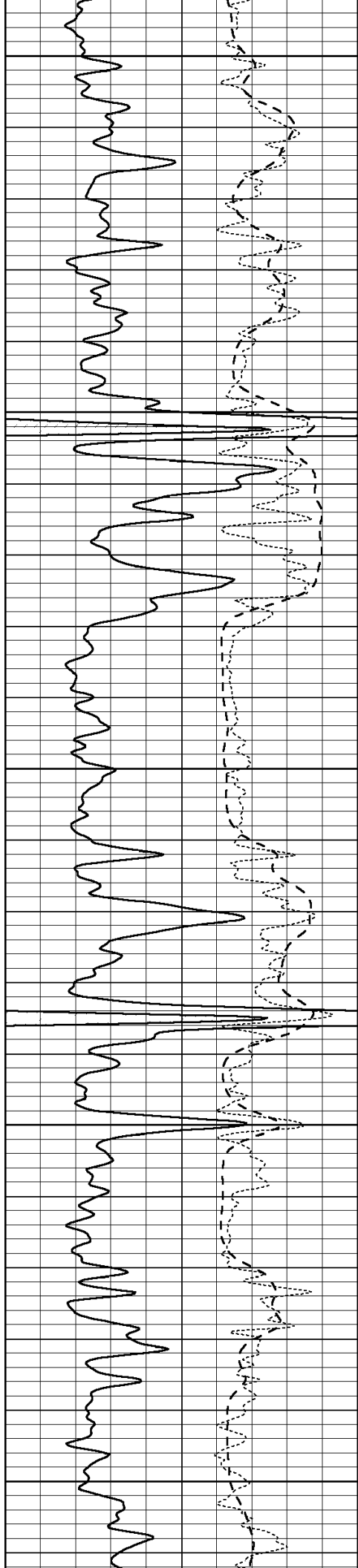
3700

3750



0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	MEDIUM INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000





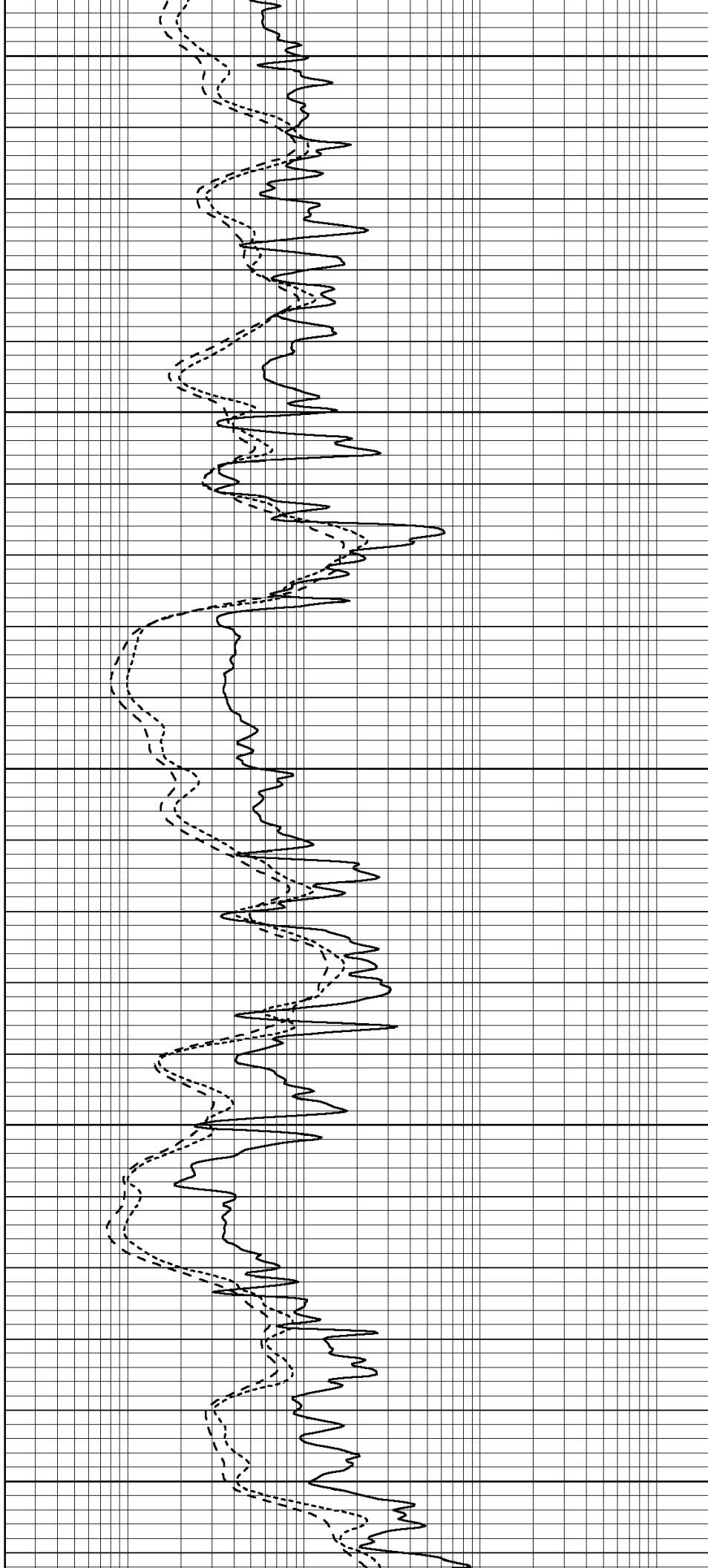
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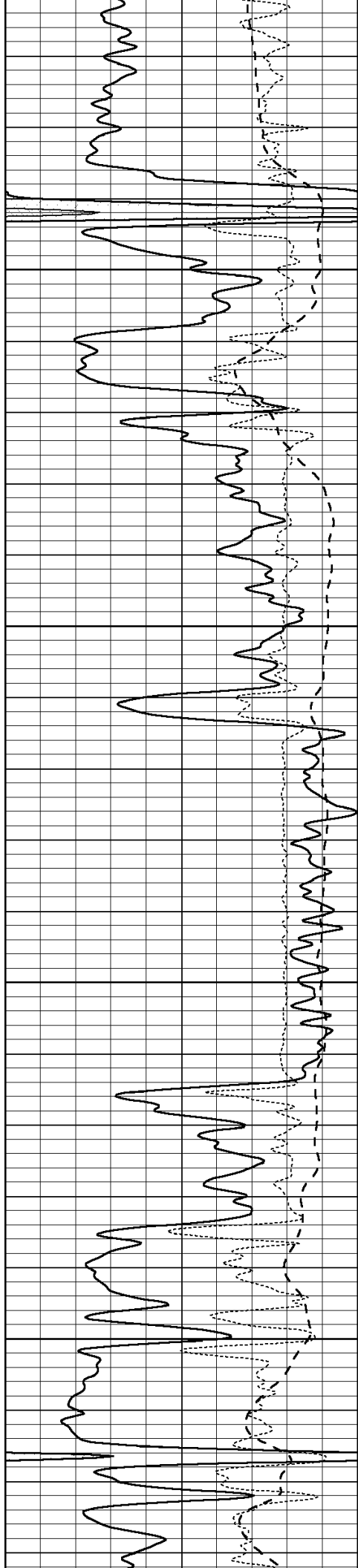
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3100

3150

3200



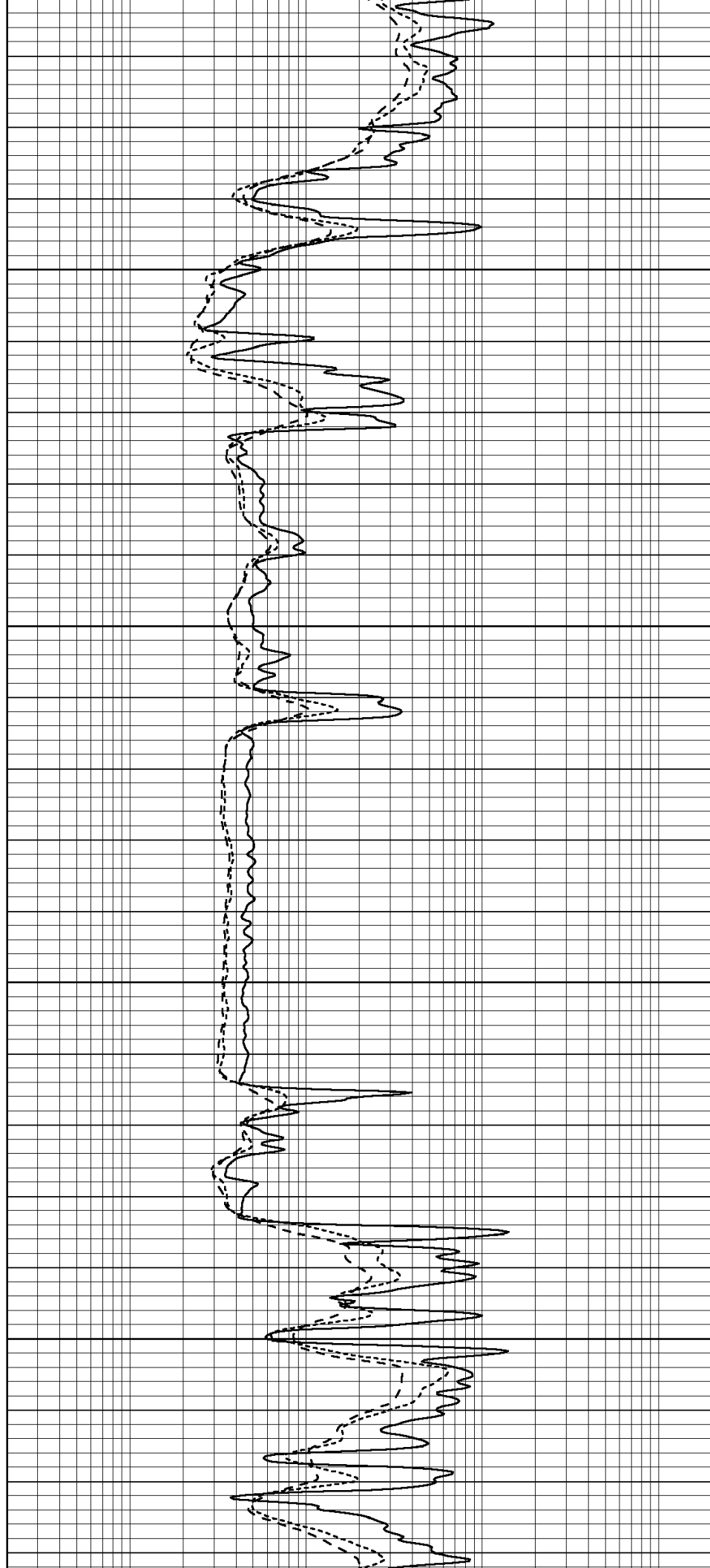


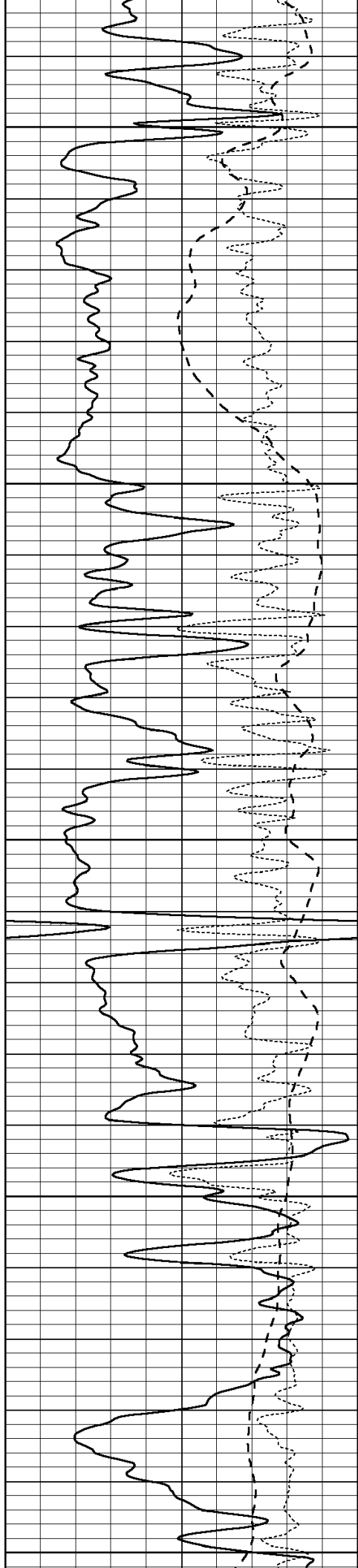
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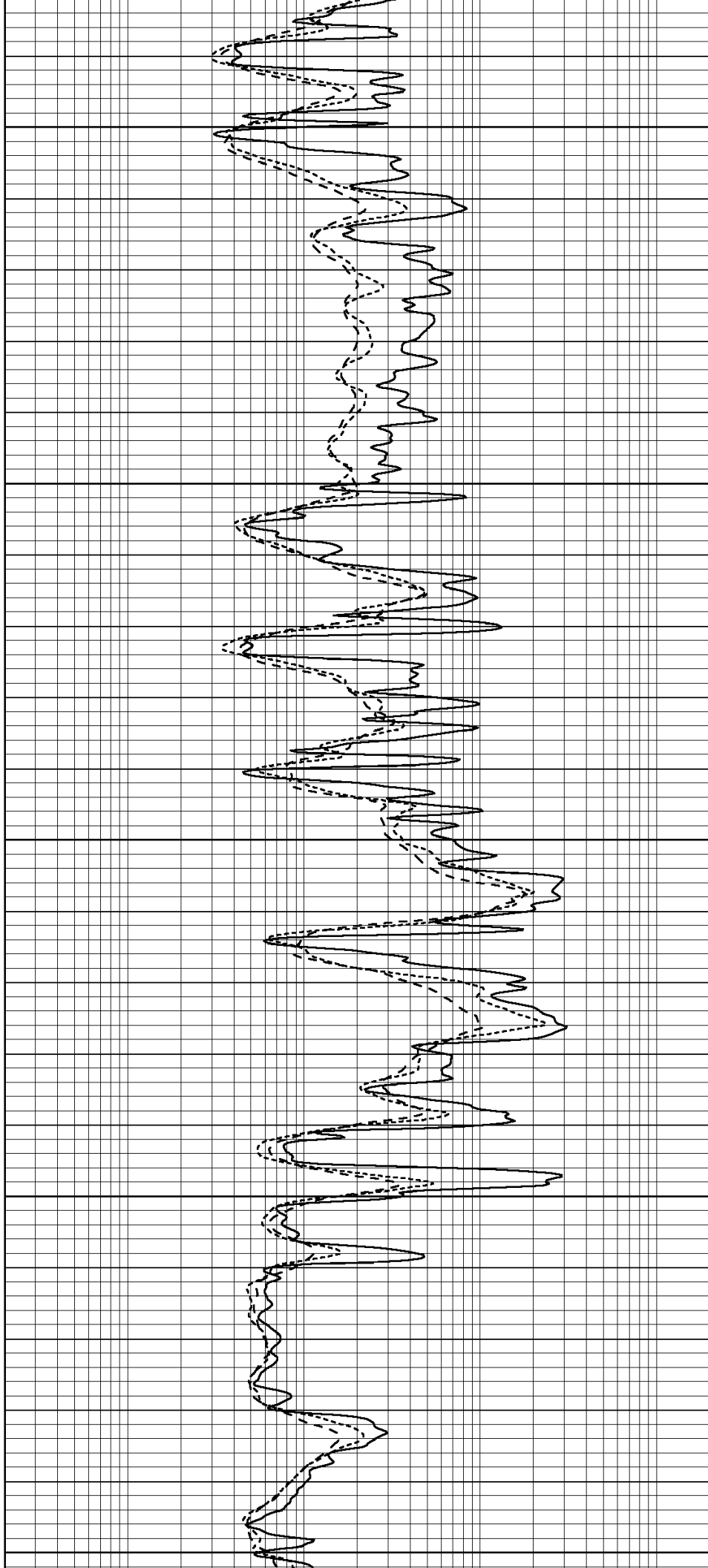
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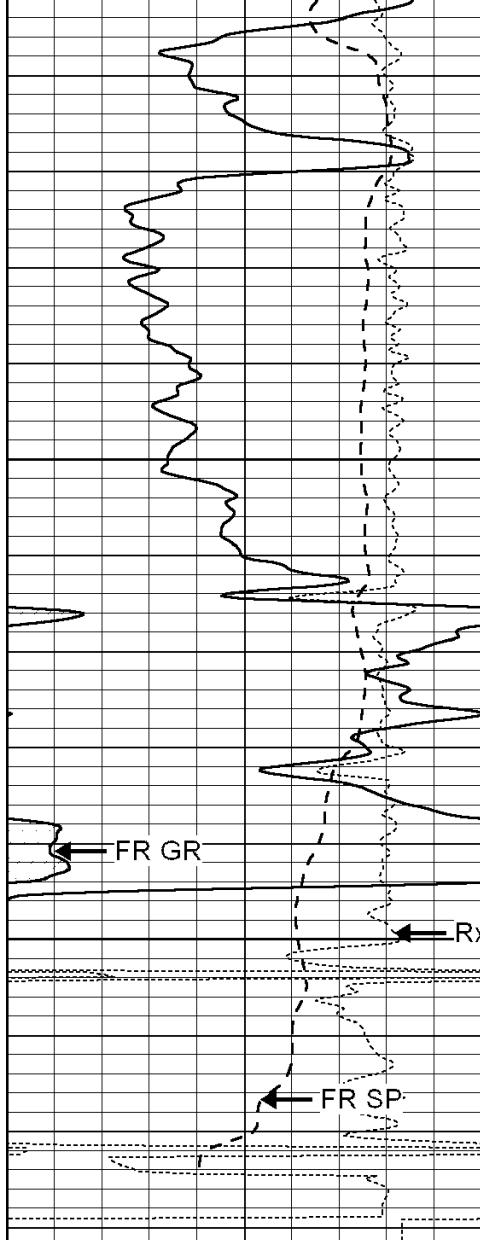
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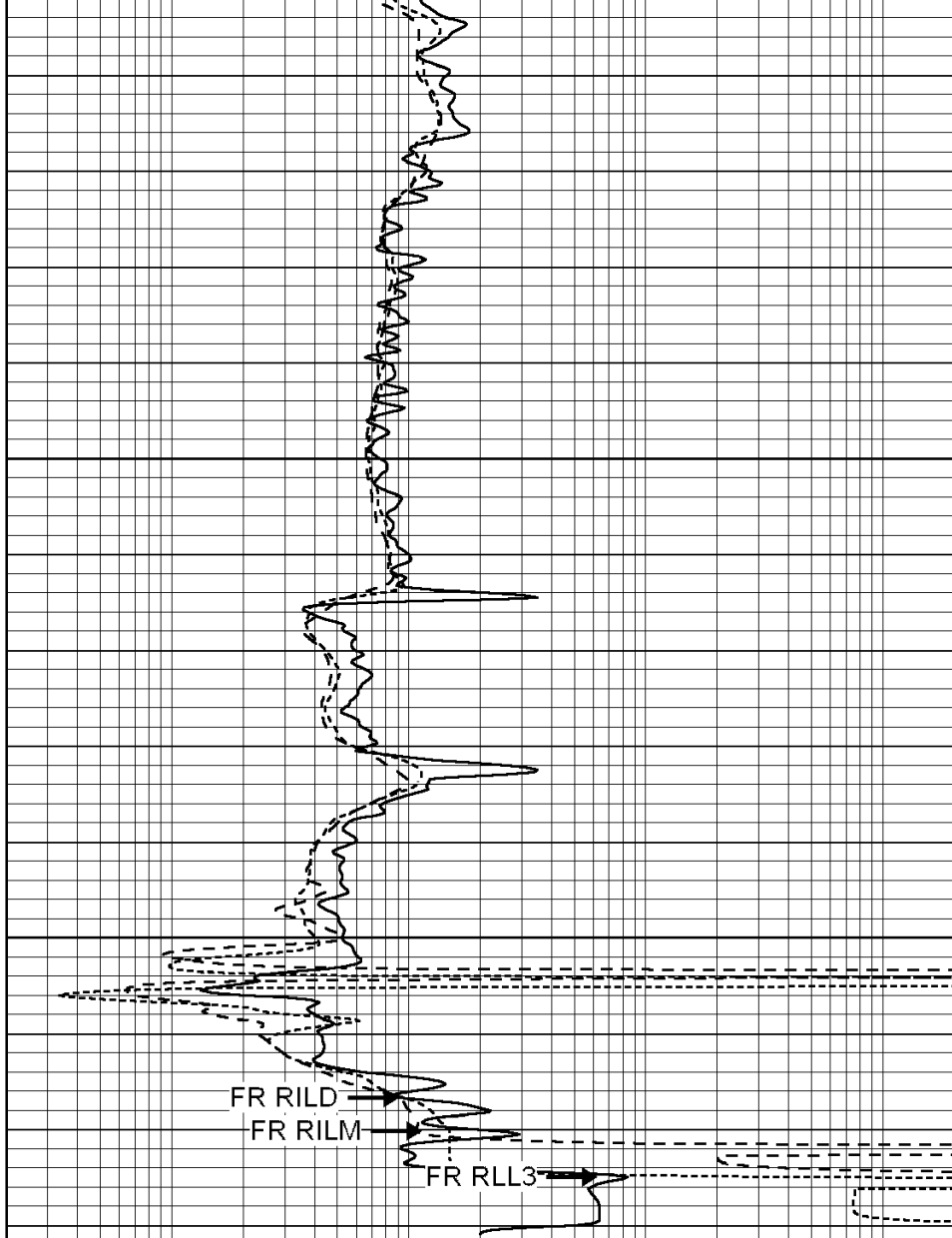




3700

LTD 3777

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



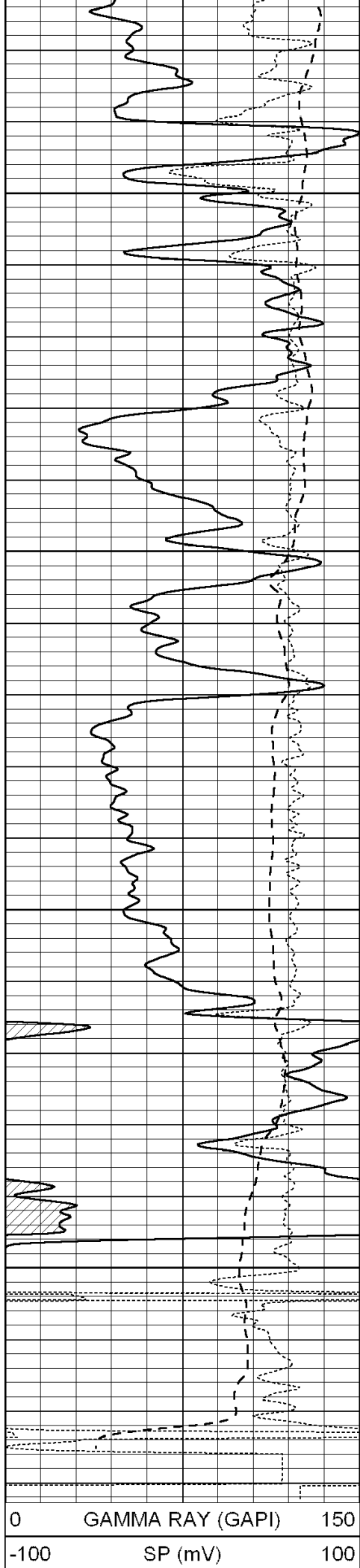
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 004868ddn.db
Dataset Pathname: pass2.4.1
Presentation Format: dil
Dataset Creation: Thu Mar 04 05:24:57 2010 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

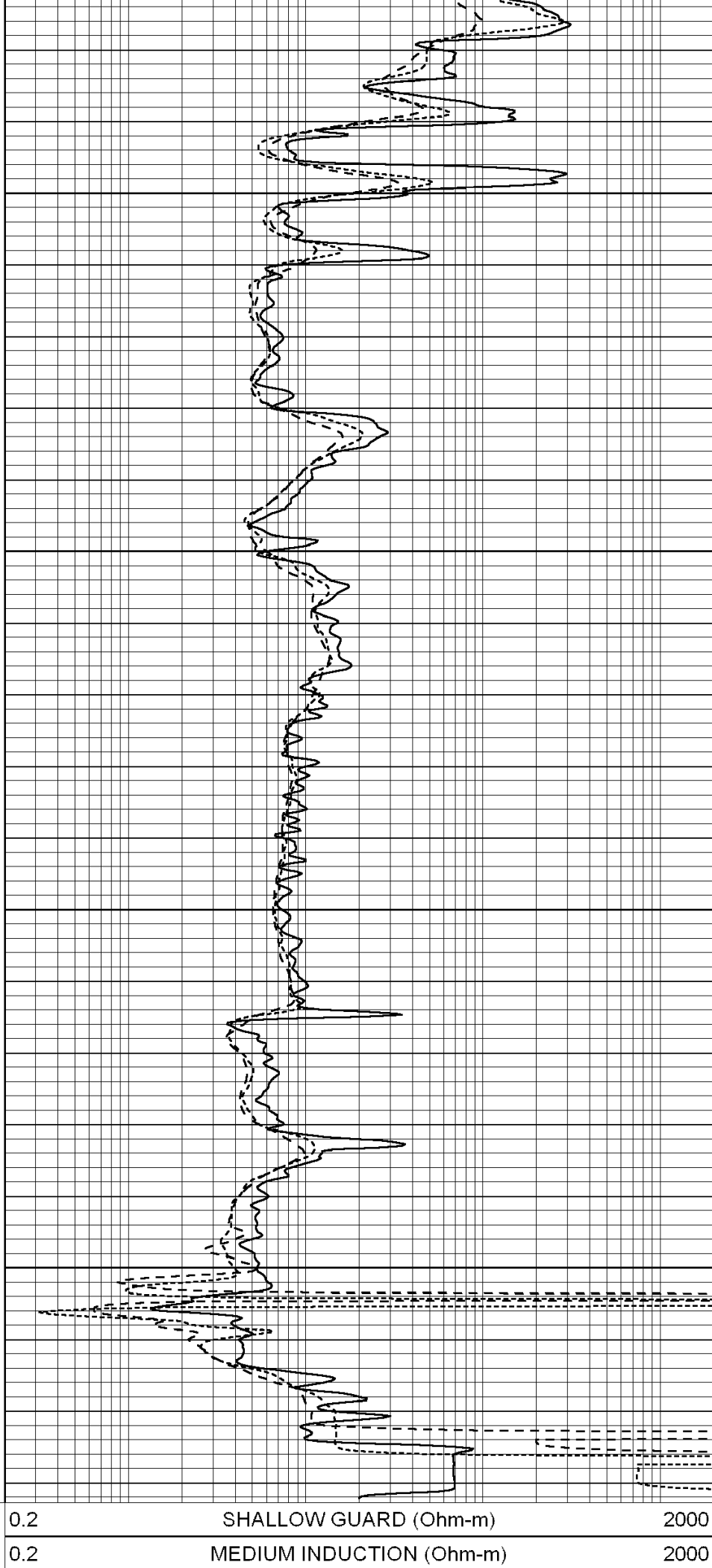


3600

3650

3700

3750



-250	Rxo/Rt	50	0.2	DEEP INDUCTION (Ohm-m)	2000
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Calibration Report					
Database File:	004868ddn.db				
Dataset Pathname:	pass3.4				
Dataset Creation:	Thu Mar 04 06:52:33 2010 by Calc Open-Cased 090629				

Dual Induction Calibration Report					
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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		
		-6.500	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		

Compensated Density Calibration Report					
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Serial-Model:	GEAR3-GEARHART				
Source / Verifier:	143 / 143				
Master Calibration Performed:	Fri Mar 06 10:44:04 2009				

Master Calibration					
	Density			Far Detector	Near Detector
Magnesium	1.710	g/cc		1127.25	444.45 cps
Aluminum	2.580	g/cc		260.89	307.54 cps
Spine Angle = 75.88			Density/Spine Ratio = 0.577		
Size			Reading		

Small Ring	8.00	in	4.15	V	
Large Ring	14.00	in	5.96	V	
Compensated Neutron Calibration Report					
Serial Number:		5I			
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:		GR6			
Tool Model:		OPEN			
Performed:		Tue Nov 10 08:32:36 2009			
Calibrator Value:		150.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		276.0	cps		
Sensitivity:		0.5535	GAPI/cps		