



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company	MAI OIL OPERATIONS, INC.		
Well	FLEGLER "B" #3		
Field	TRAPP		
County	RUSSELL	State	KANSAS
Location:	AP1 # : 15-167-23726-0000		Other Services CDL/CNL MEL
SEC 11 TWP 15S RGE 14W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1746
Log Measured From	KELLY BUSHING 8' A.G.L.	K.B. 1754 D.F. 1752 G.L. 1746	
Drilling Measured From	KELLY BUSHING		
Date	7/7/11		
Run Number	ONE		
Depth Driller	3265		
Depth Logger	3265		
Bottom Logged Interval	3263		
Top Log Interval	00		
Casing Driller	8 5/8"@43'		
Casing Logger	432		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,800 PPM	
Density / Viscosity	9.2/64		
pH / Fluid Loss	8.0/10.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.500@79F		
Rmt @ Meas. Temp	.375@78F		
Rmc @ Meas. Temp	.600@78F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.358@109F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	4:00 A.M.		
Maximum Recorded Temperature	109F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	STEVE MURPHY		

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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, 6S. ON HWY 281 TO MM #136 "WALTERS RD., 1/4E., S. INTO @CATTLE GUARD
PAST 2 TANK BATTERIES THEN WEST @CATTLE GUARD, THEN NORTH INTO PAST PUMPING UNIT



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MAIN SECTION

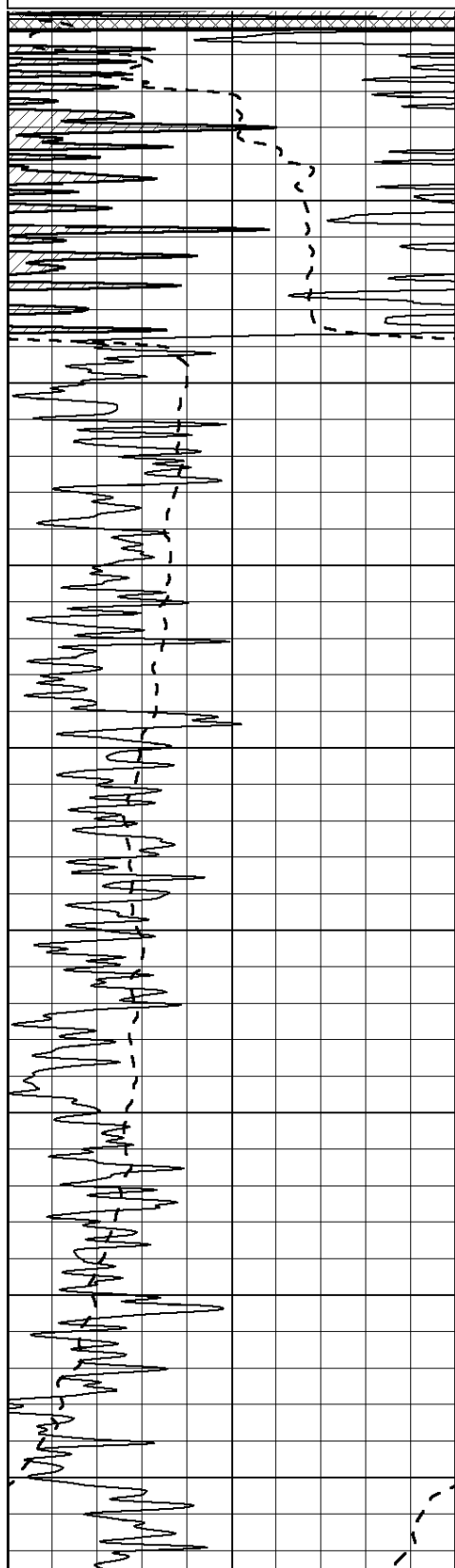
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 Dataset Pathname: pass3.3
 Presentation Format: dil2
 Dataset Creation: Thu Jul 07 05:27:49 2011 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:600

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

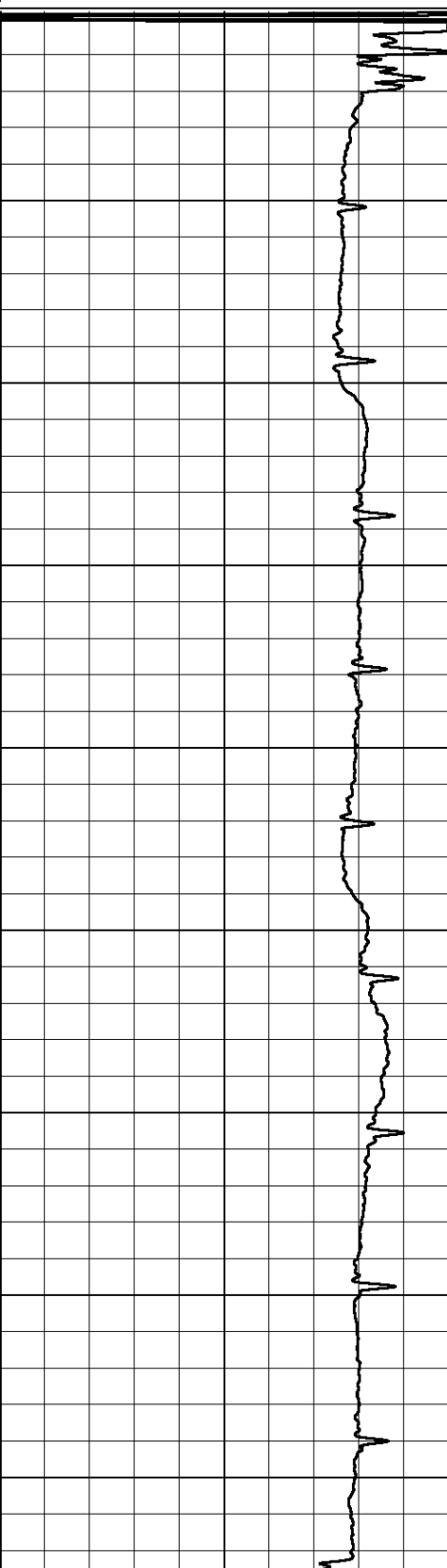
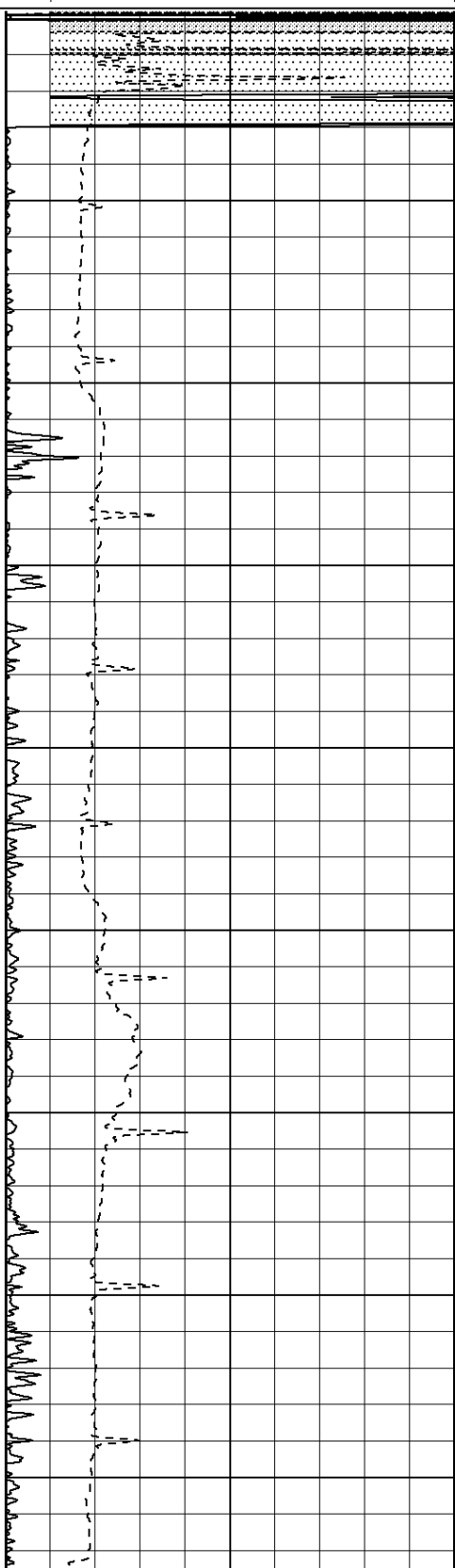
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0	RILD (Ohm-m)	50

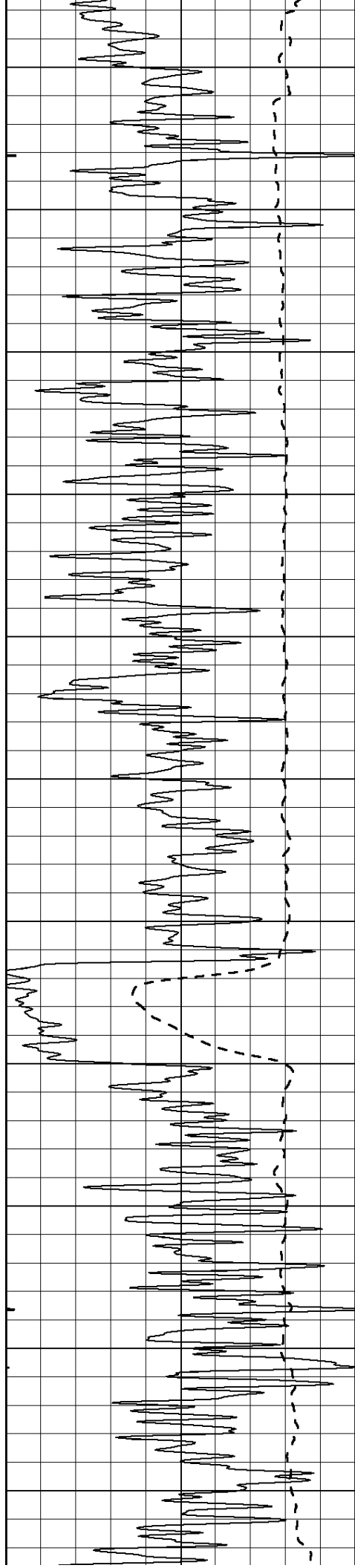
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



0
50
100
150
200
250
300
350
400





450

500

550

600

650

700

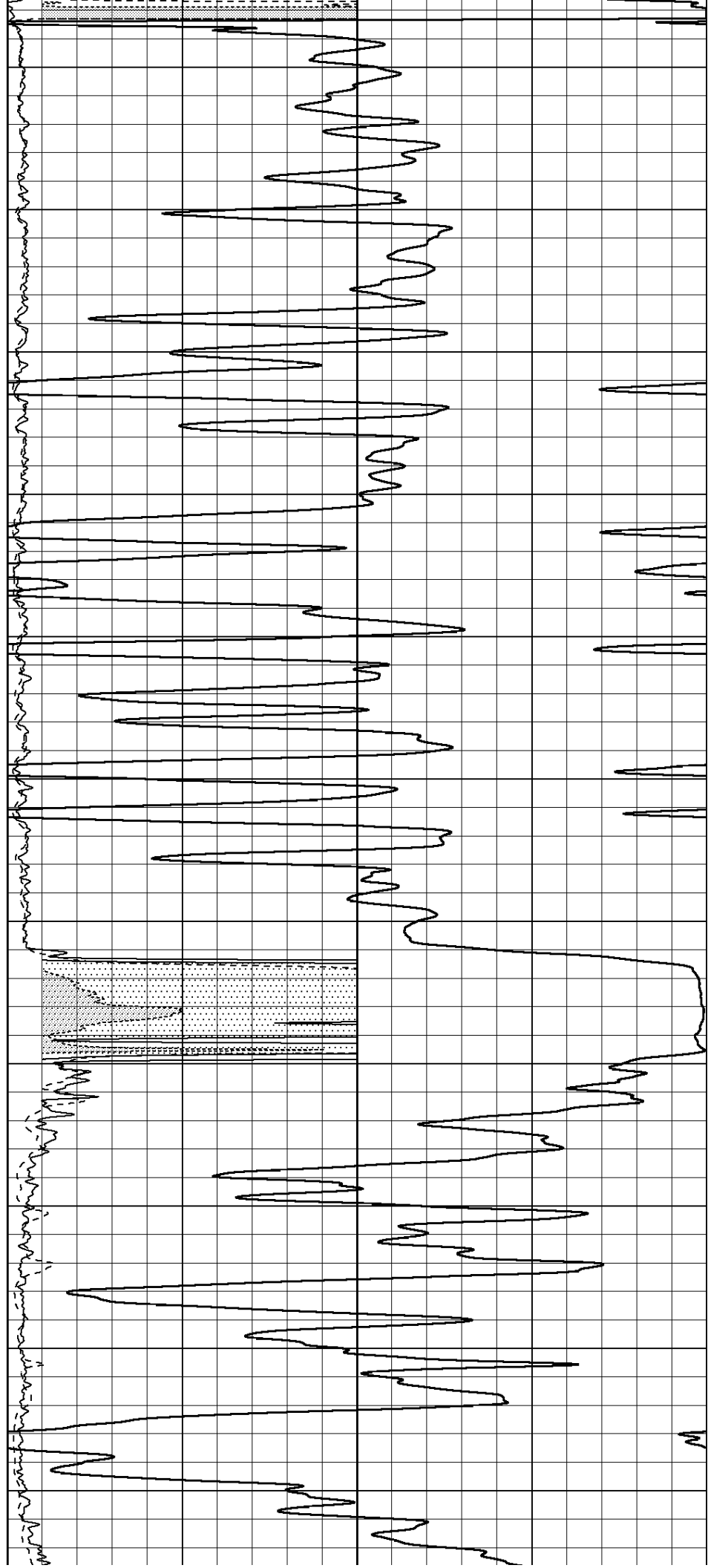
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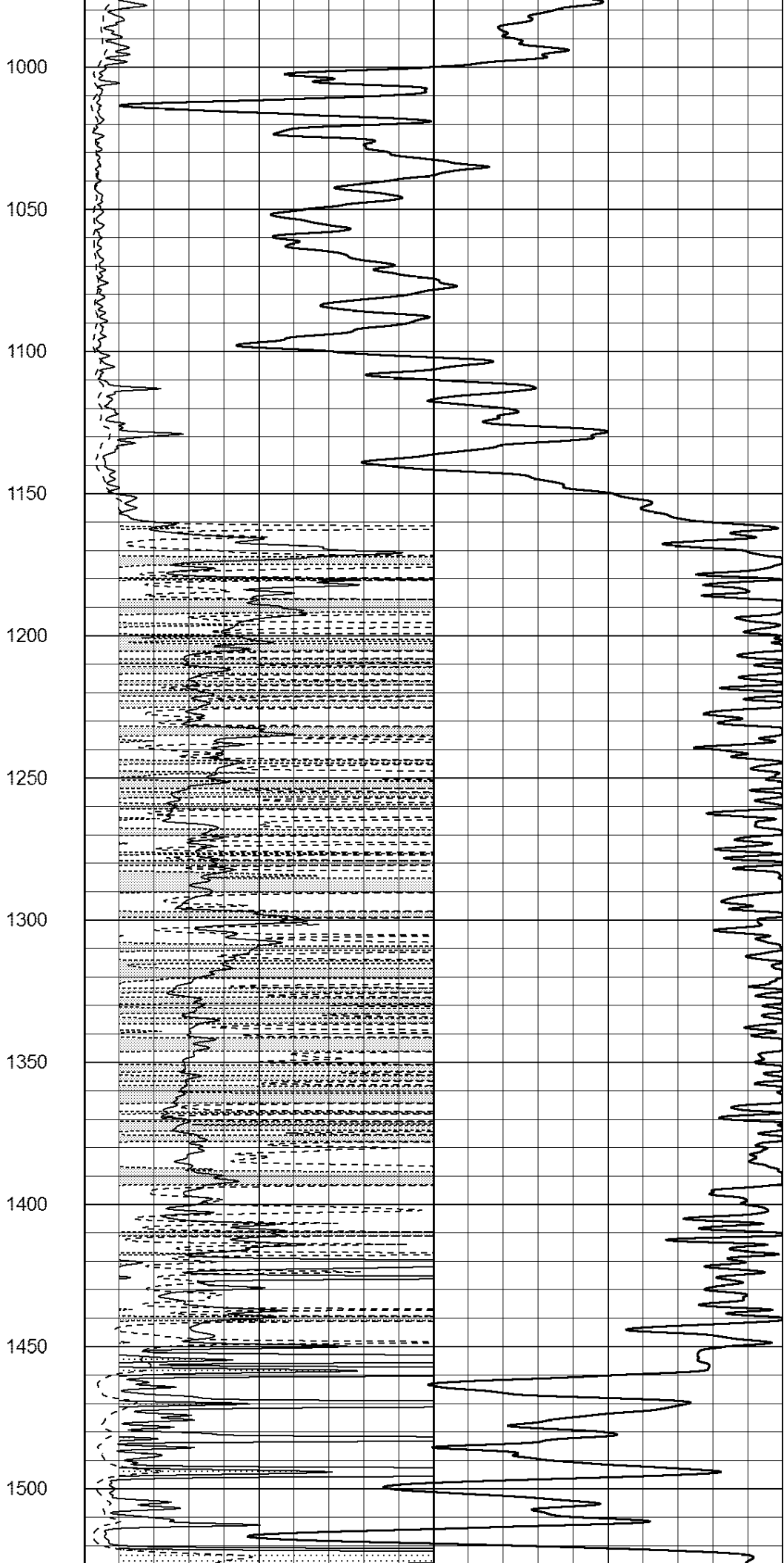
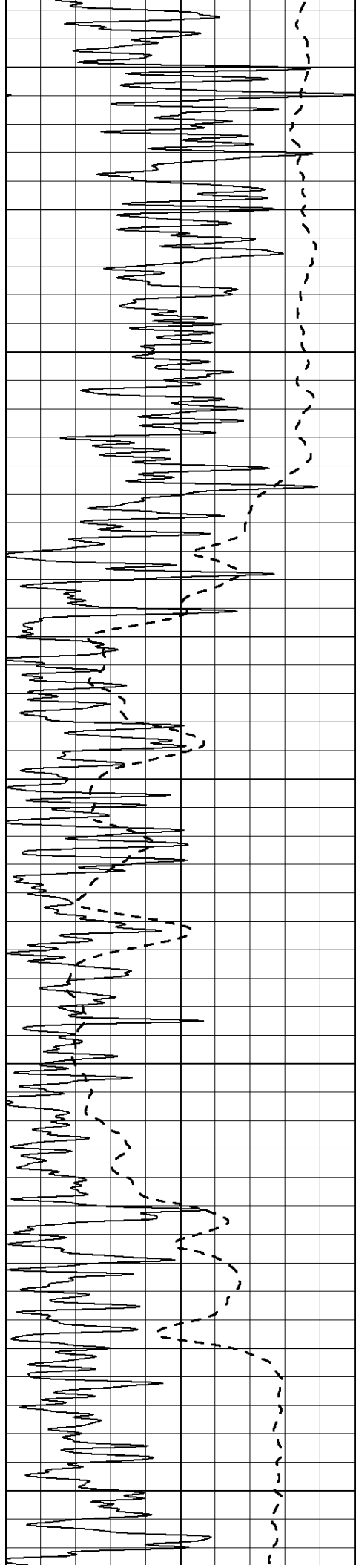
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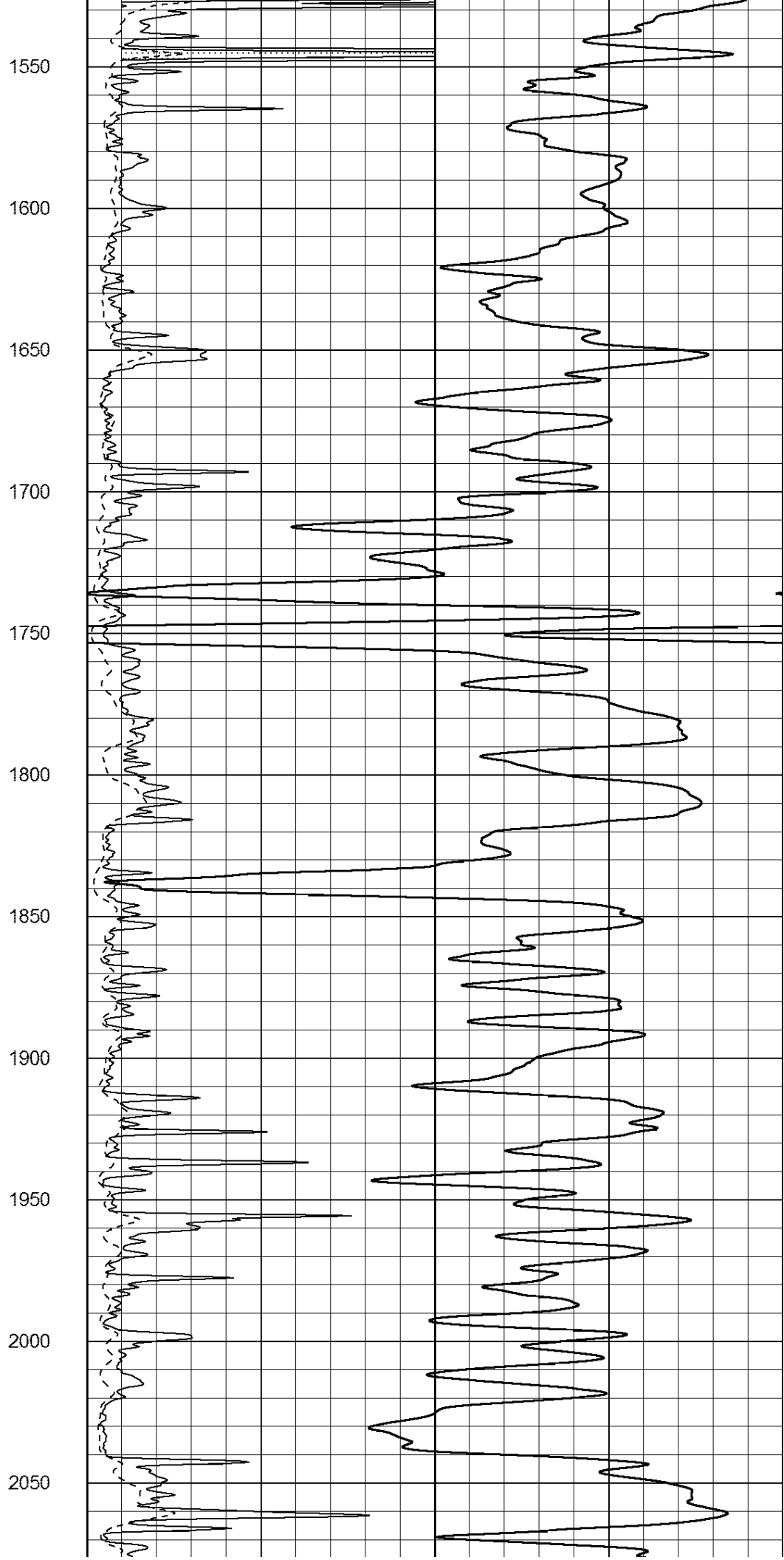
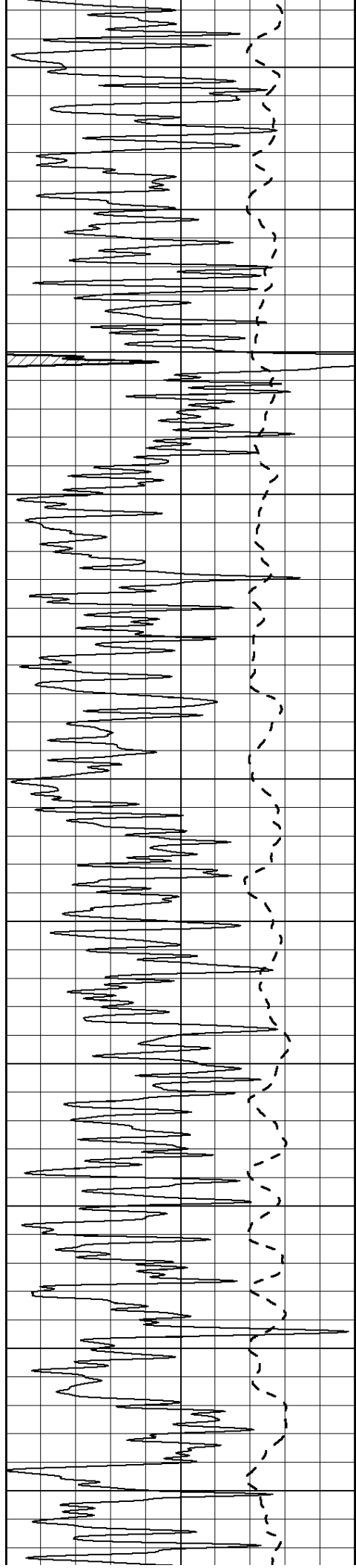
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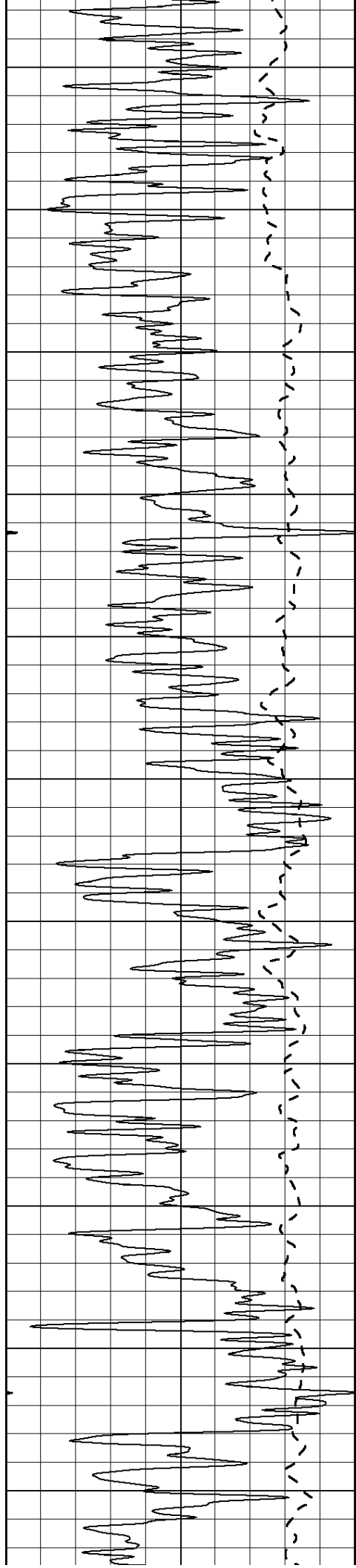
900

950









2100

2150

2200

2250

2300

2350

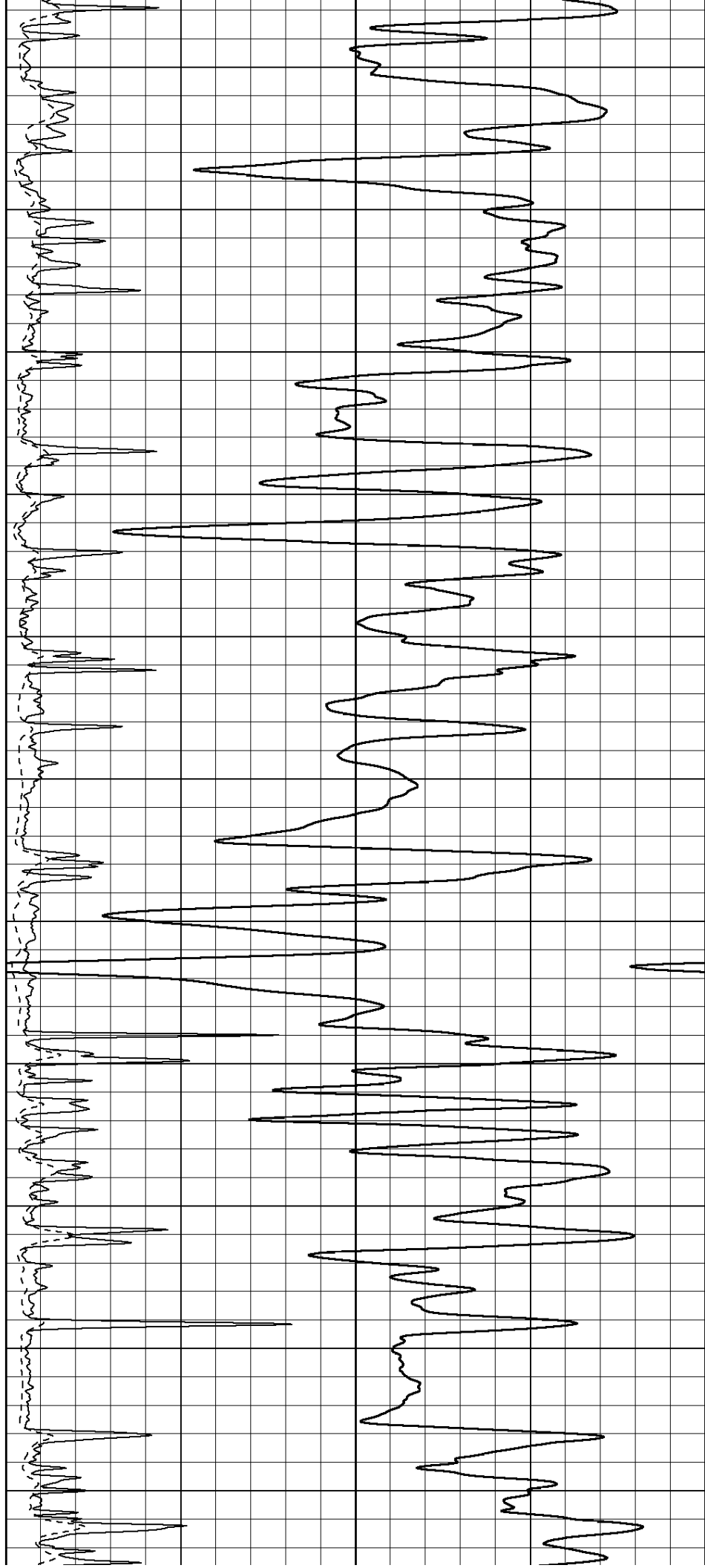
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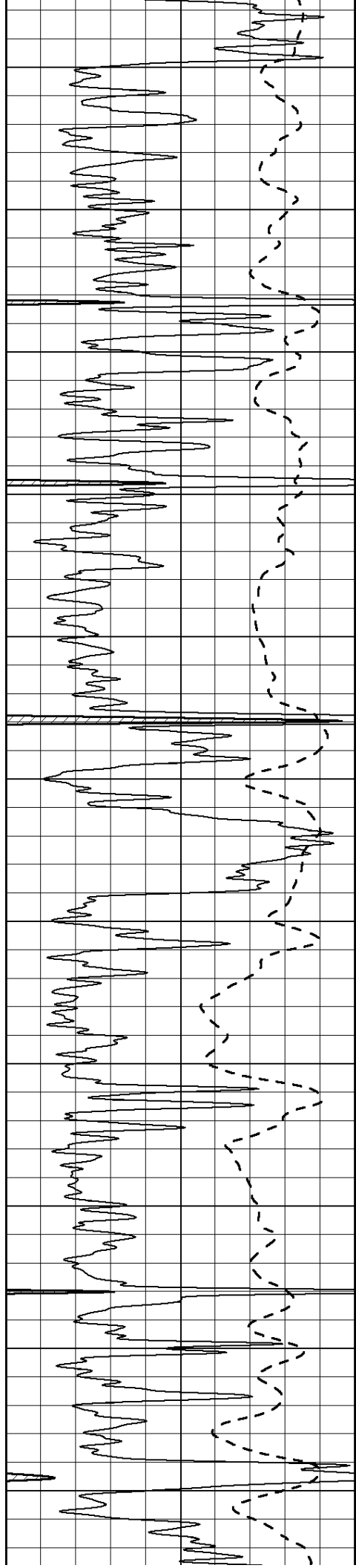
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2500

2550

2600





2650

2700

2750

2800

2850

2900

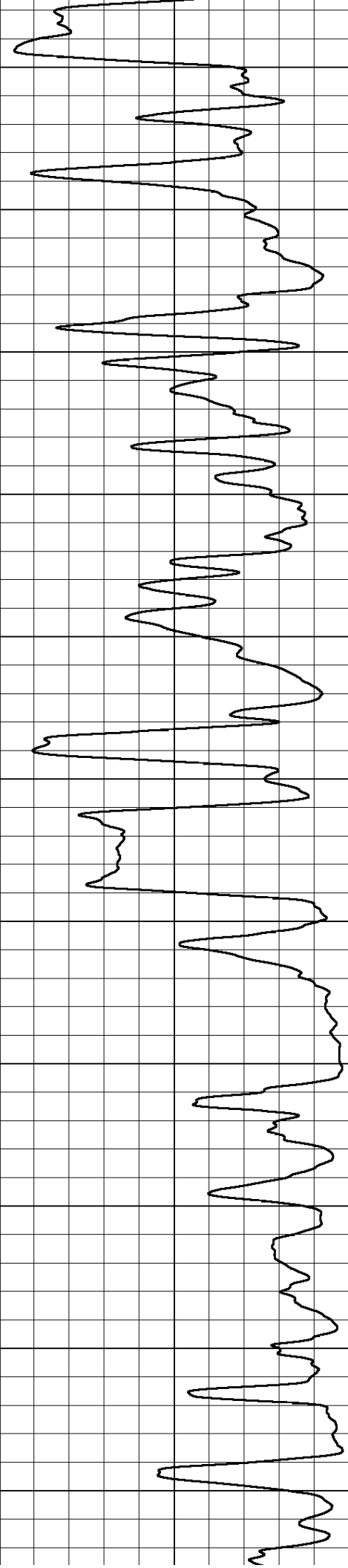
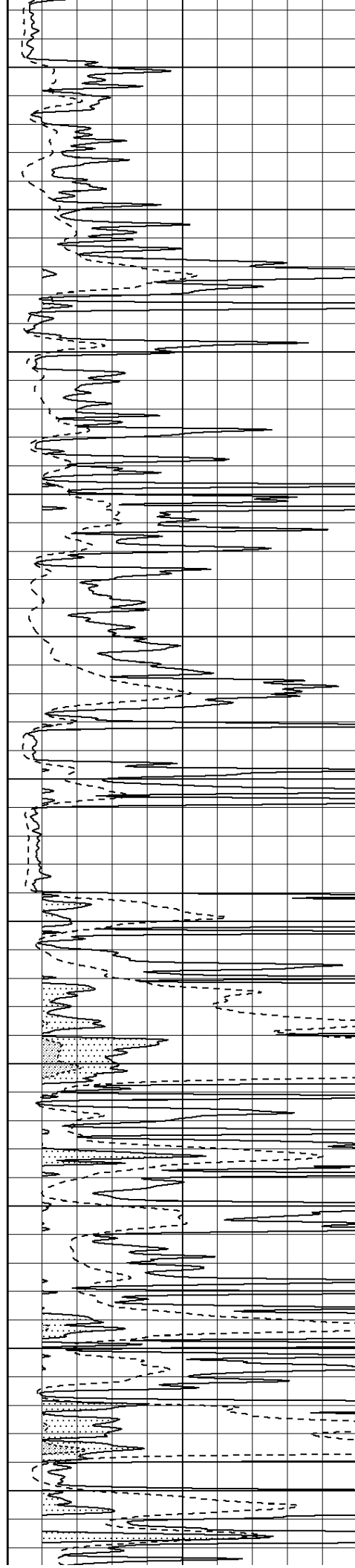
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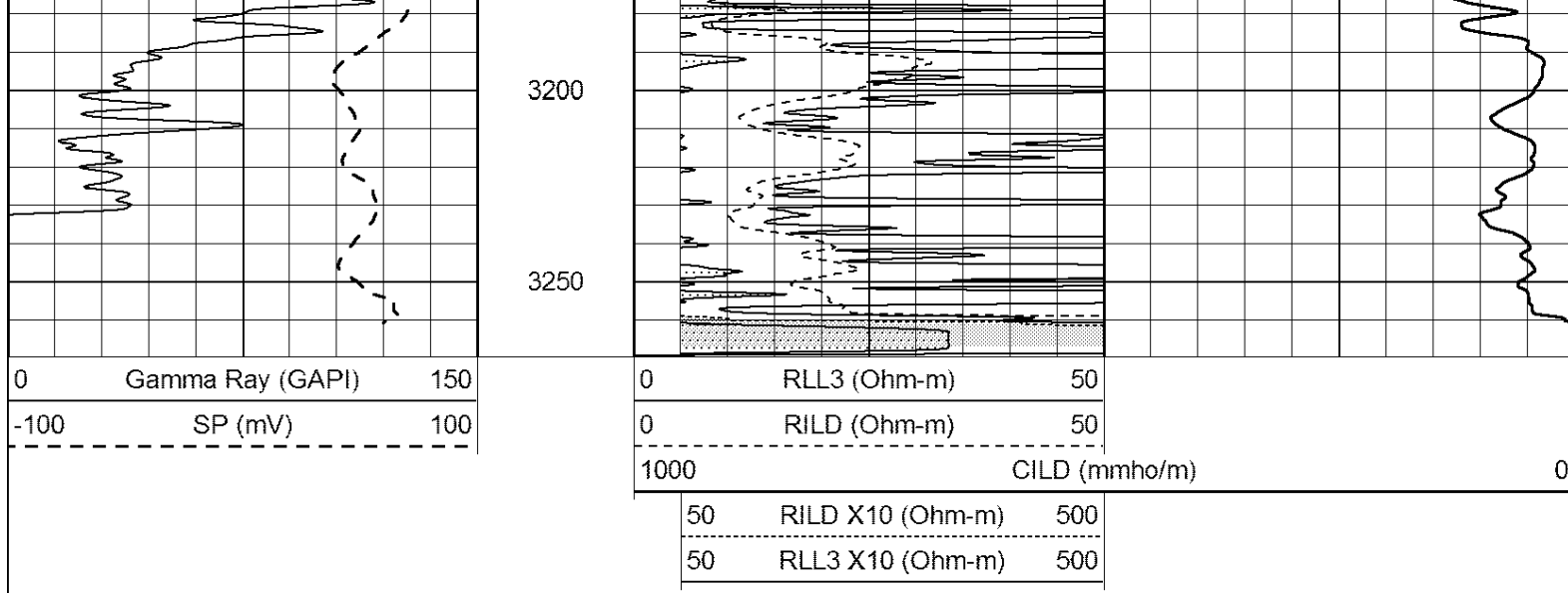
3000

3050

3100

3150

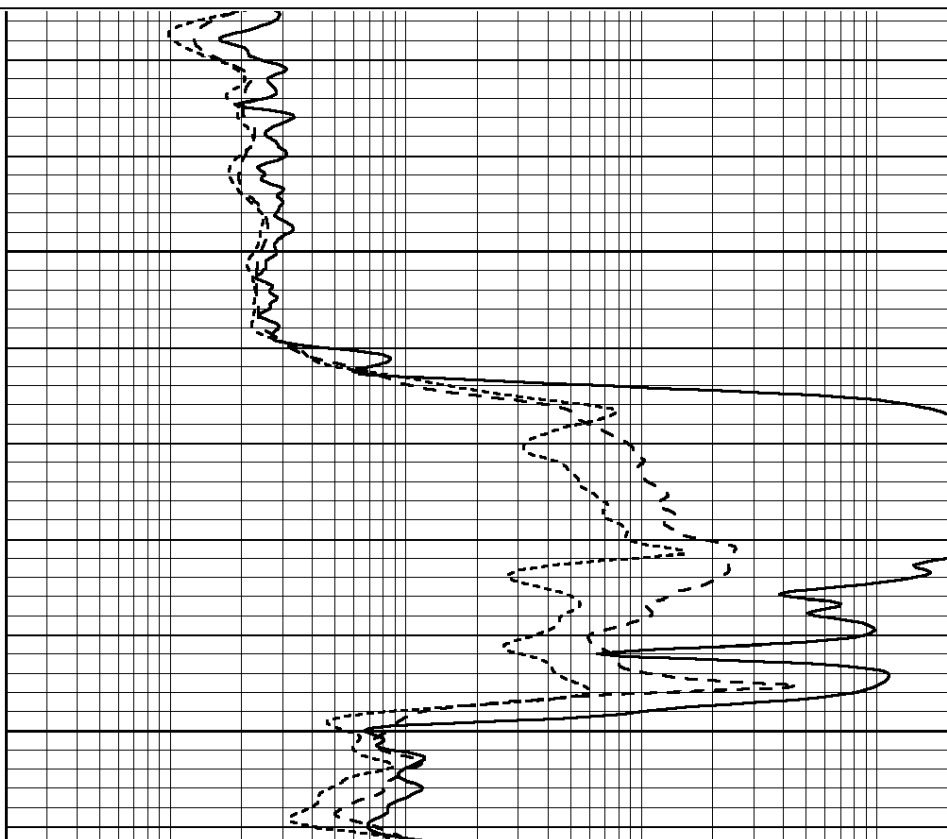
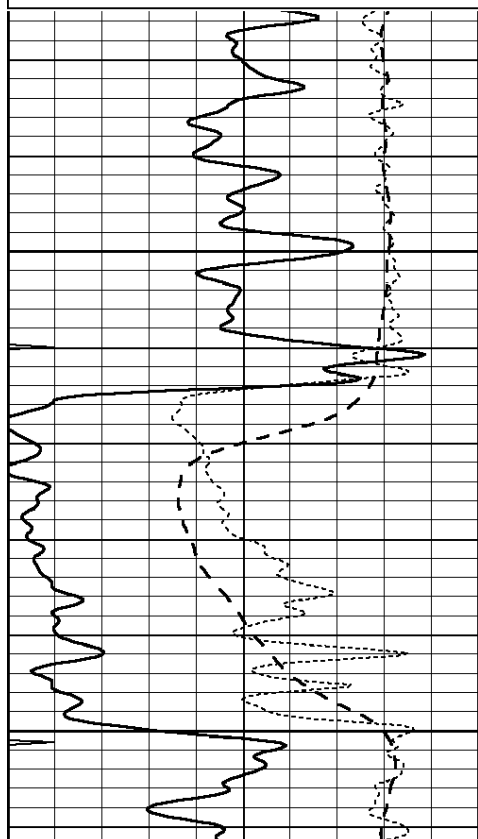
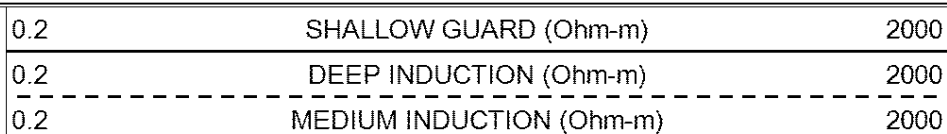
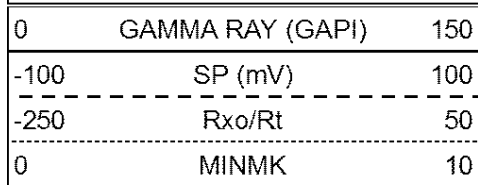


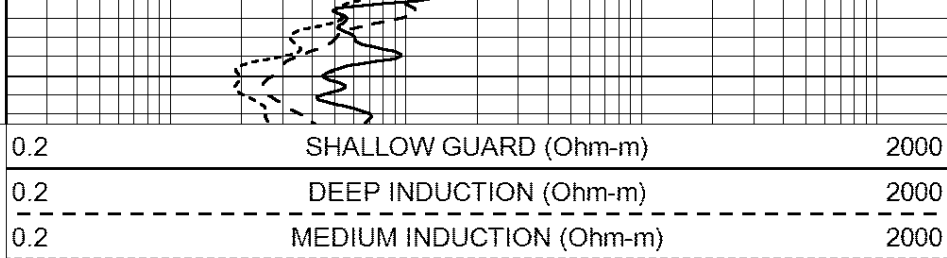
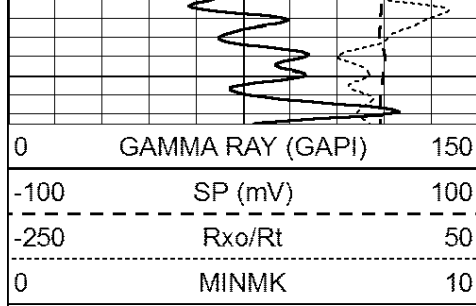


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ANHYDRITE

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 Charted by: Depth in Feet scaled 1:240

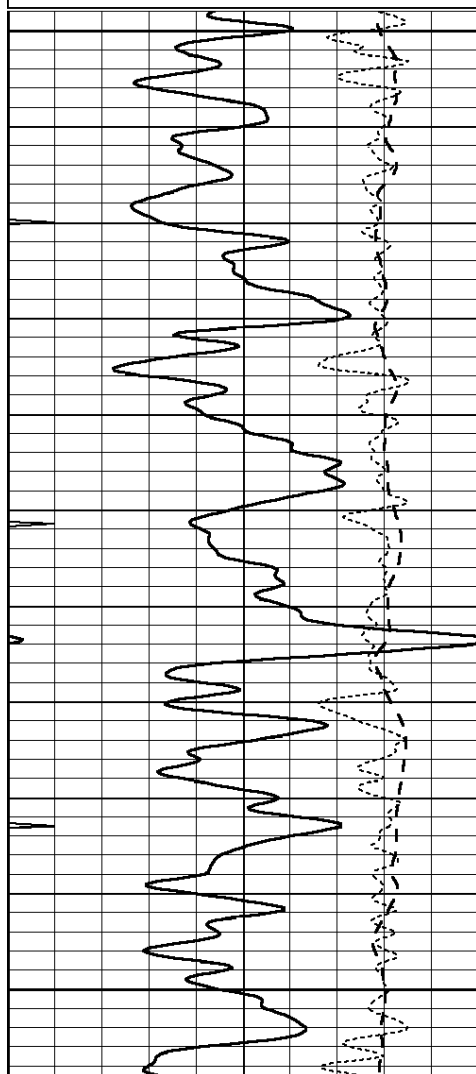
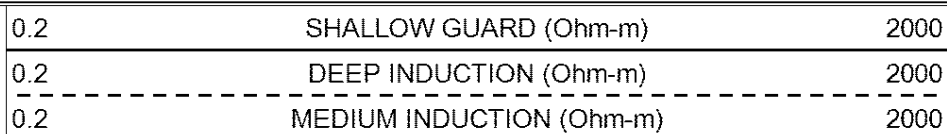
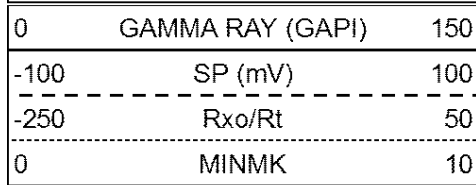




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MAIN SECTION

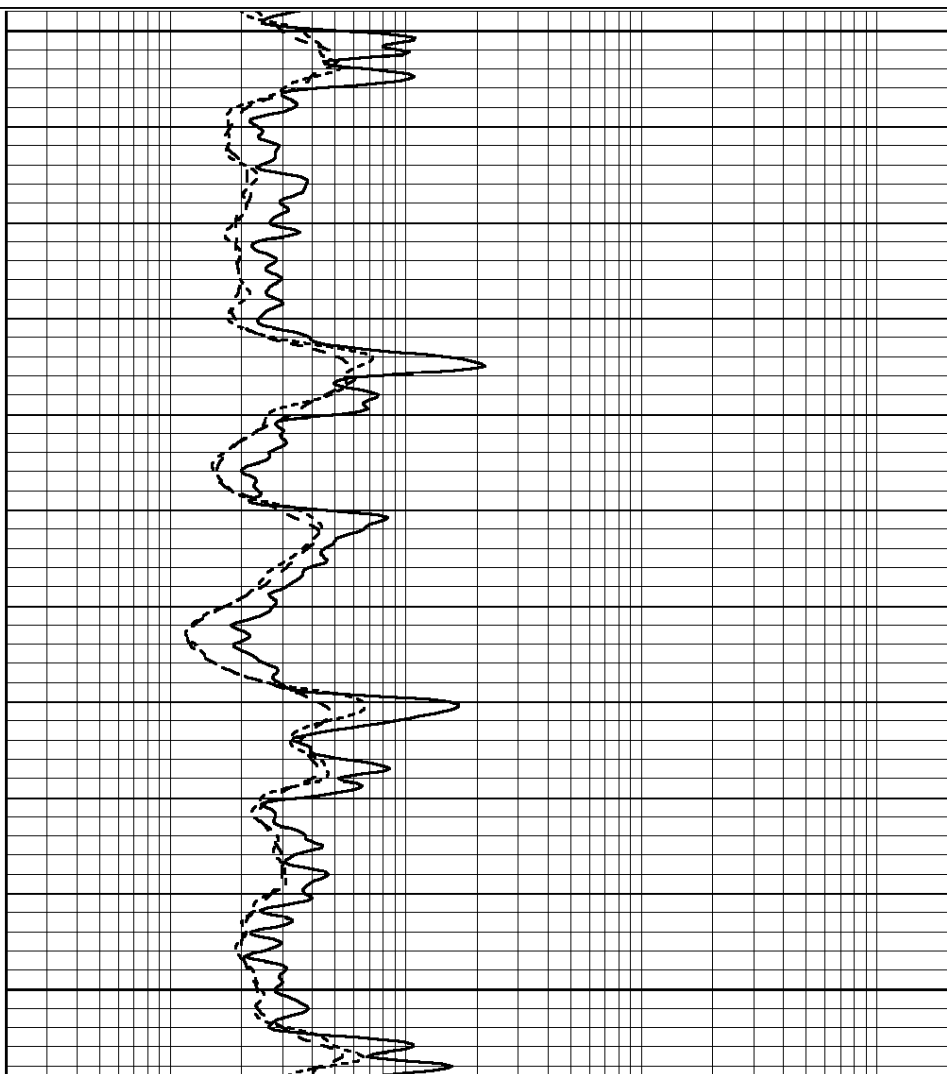
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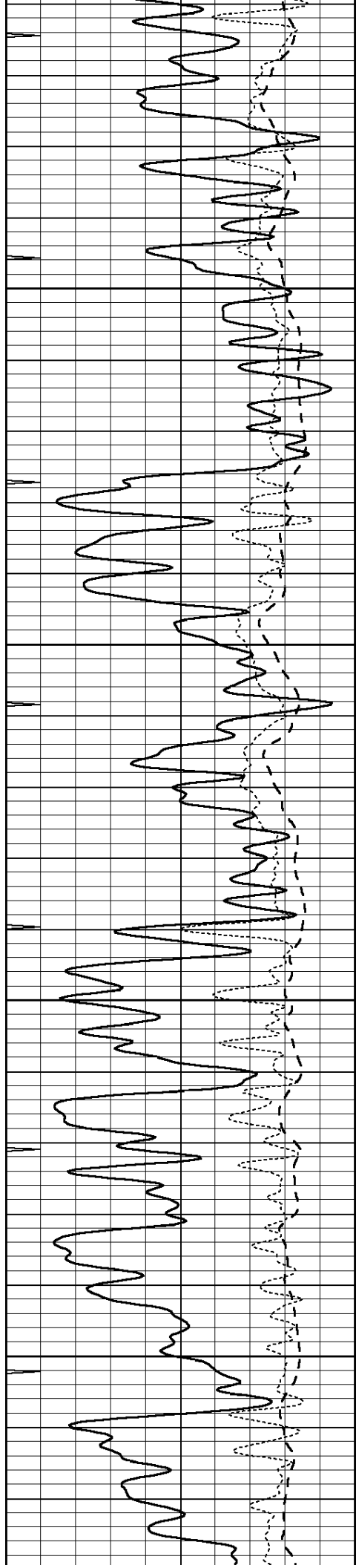


2200

2250

2300



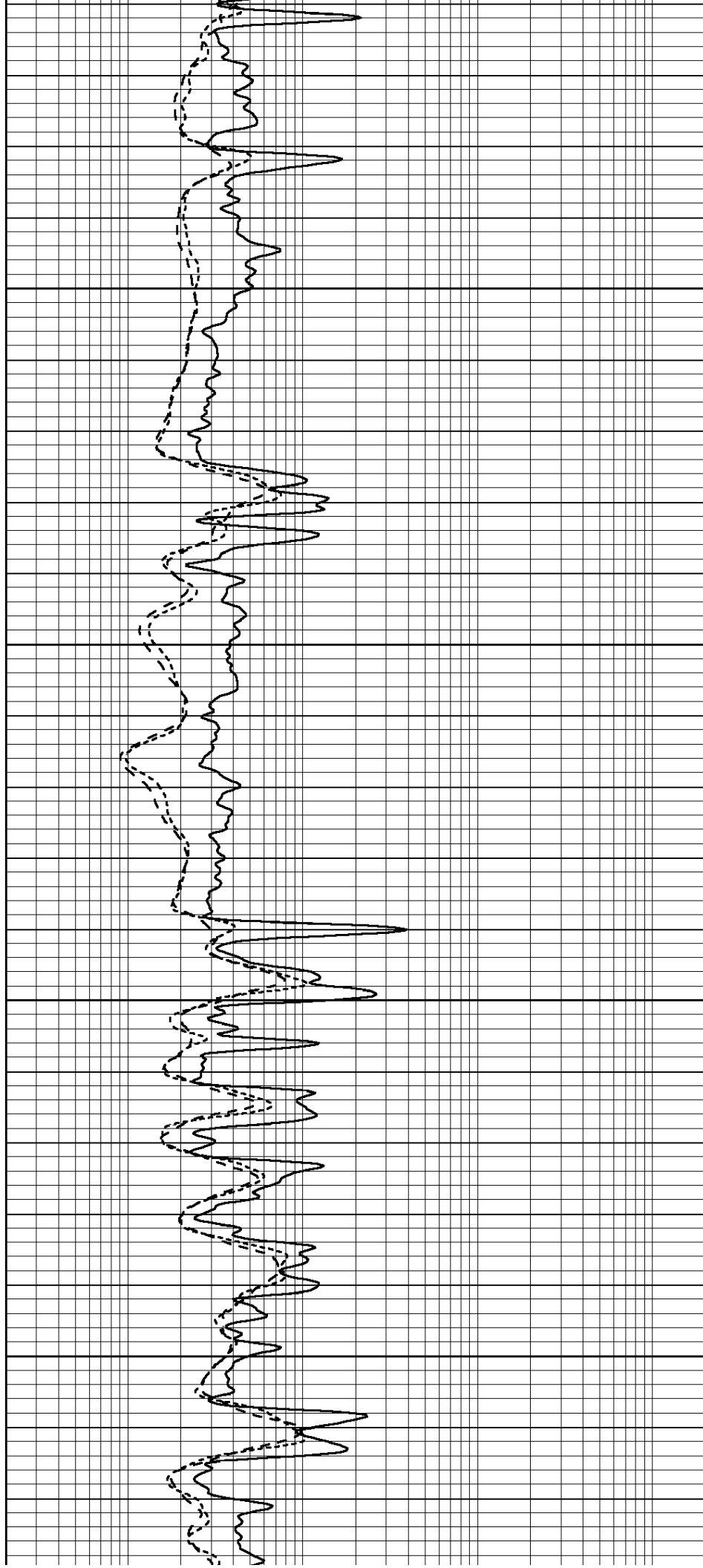


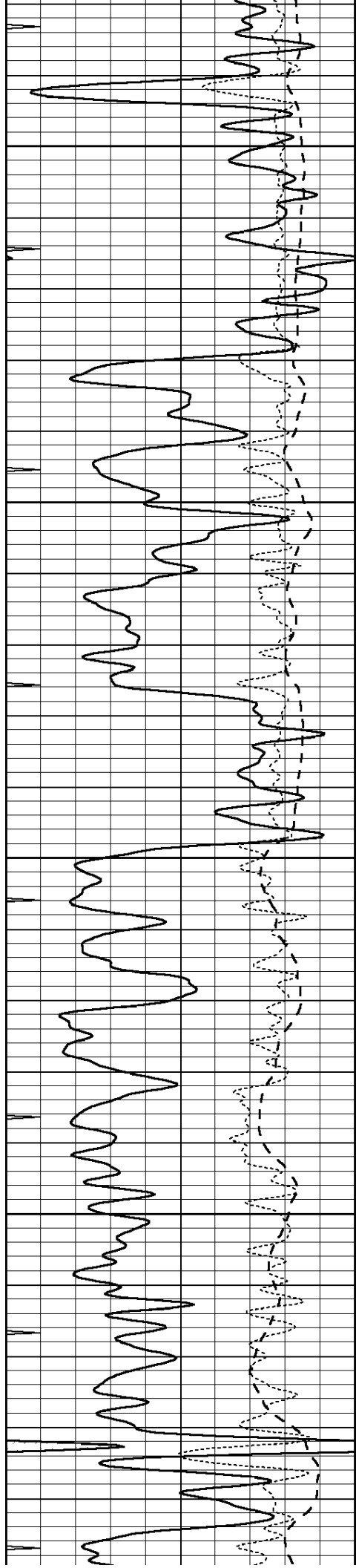
2350

2400

2450

2500



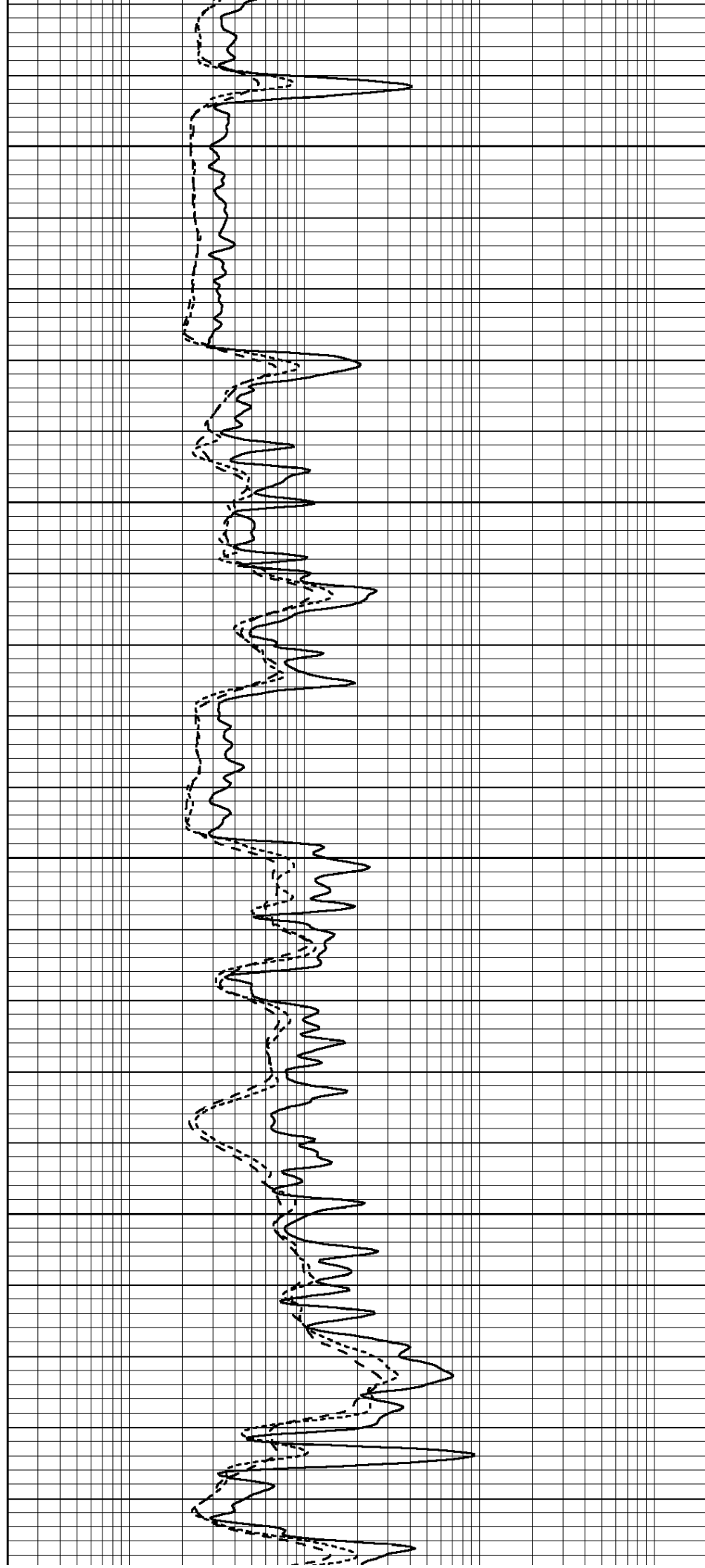


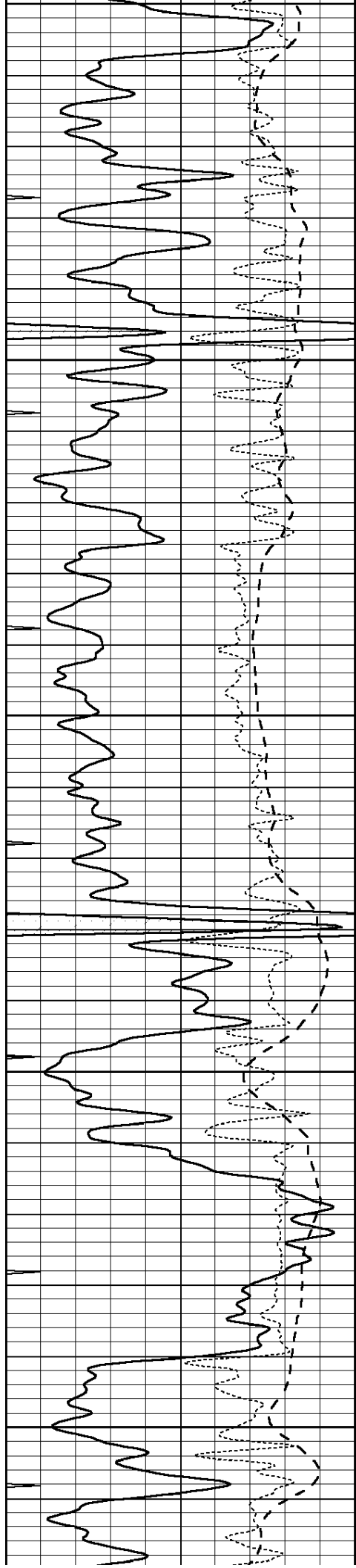
2550

2600

2650

2700





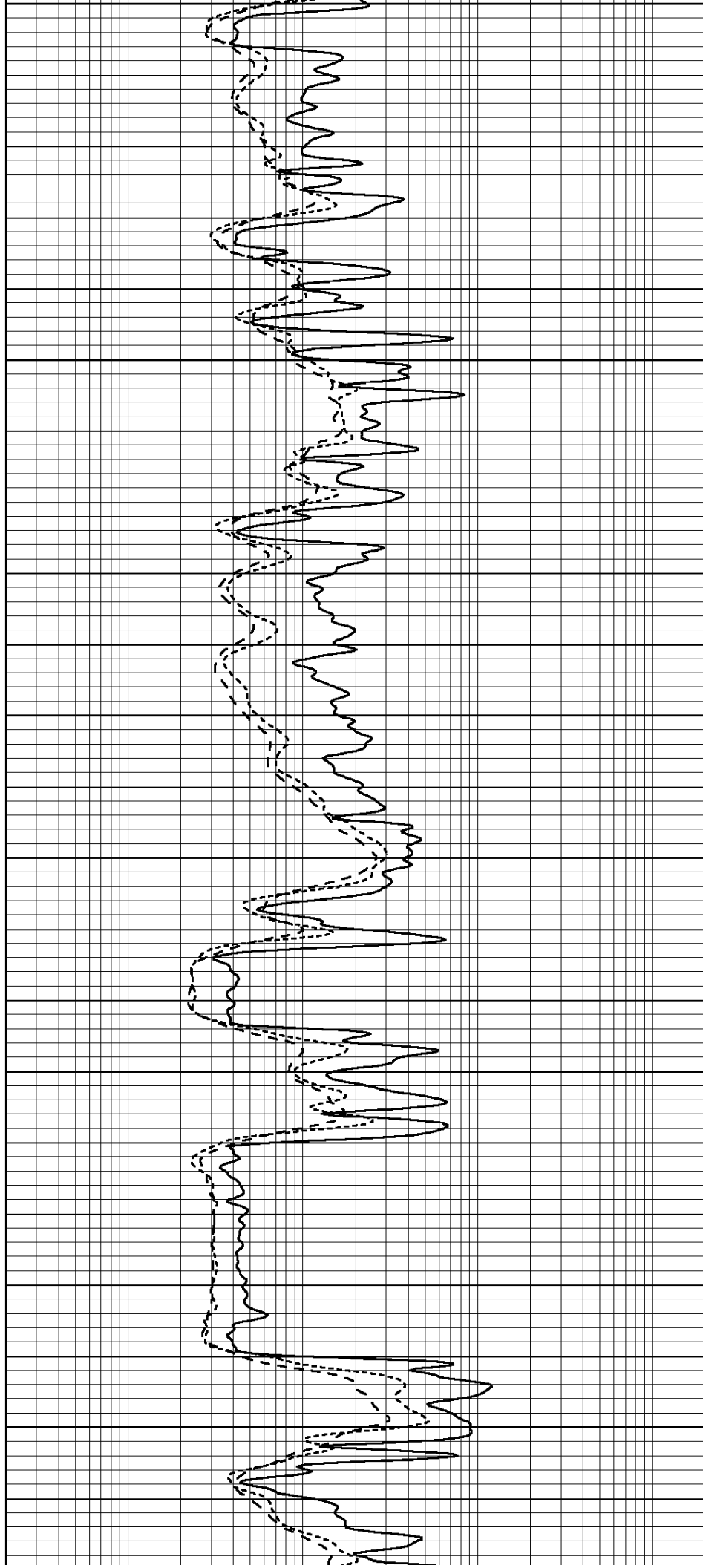
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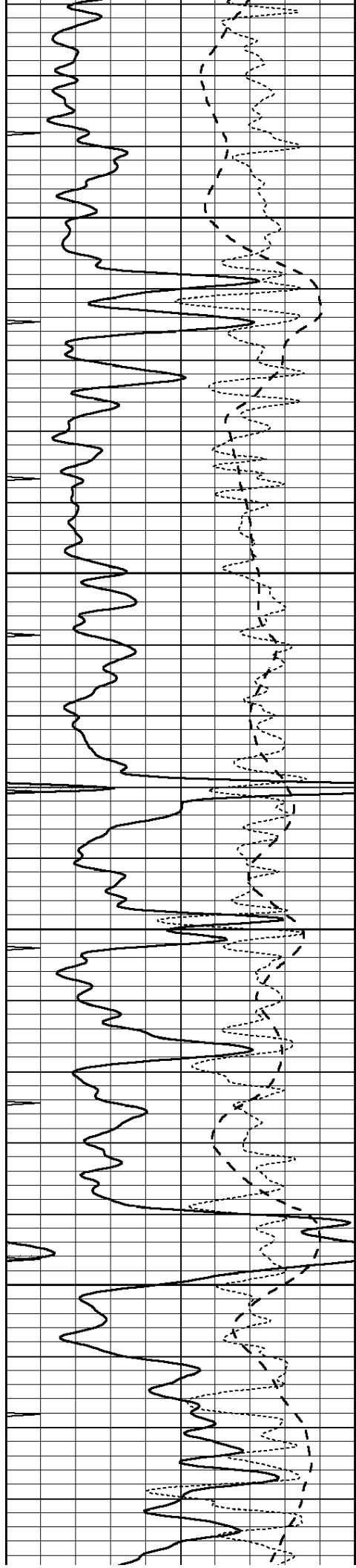
2800

2850

2900

2950



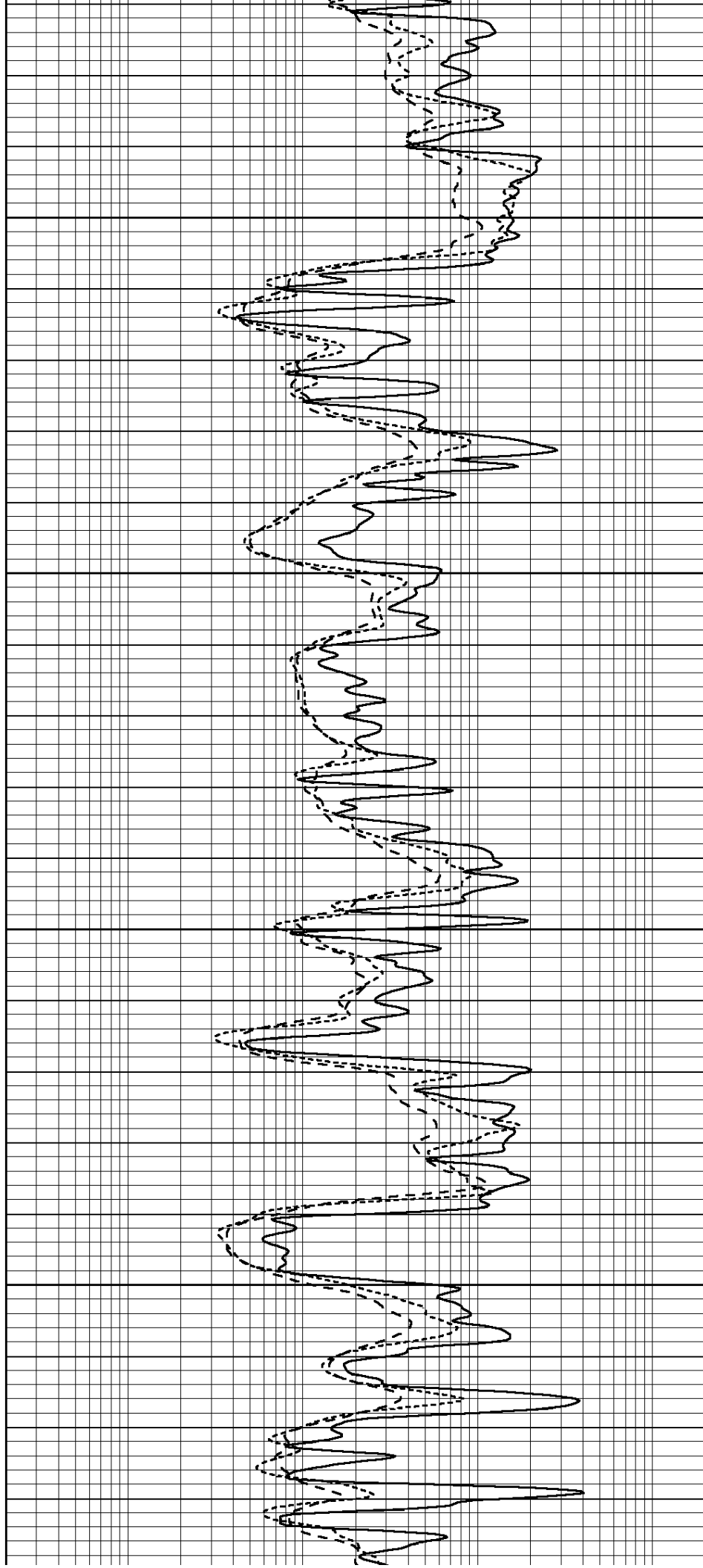


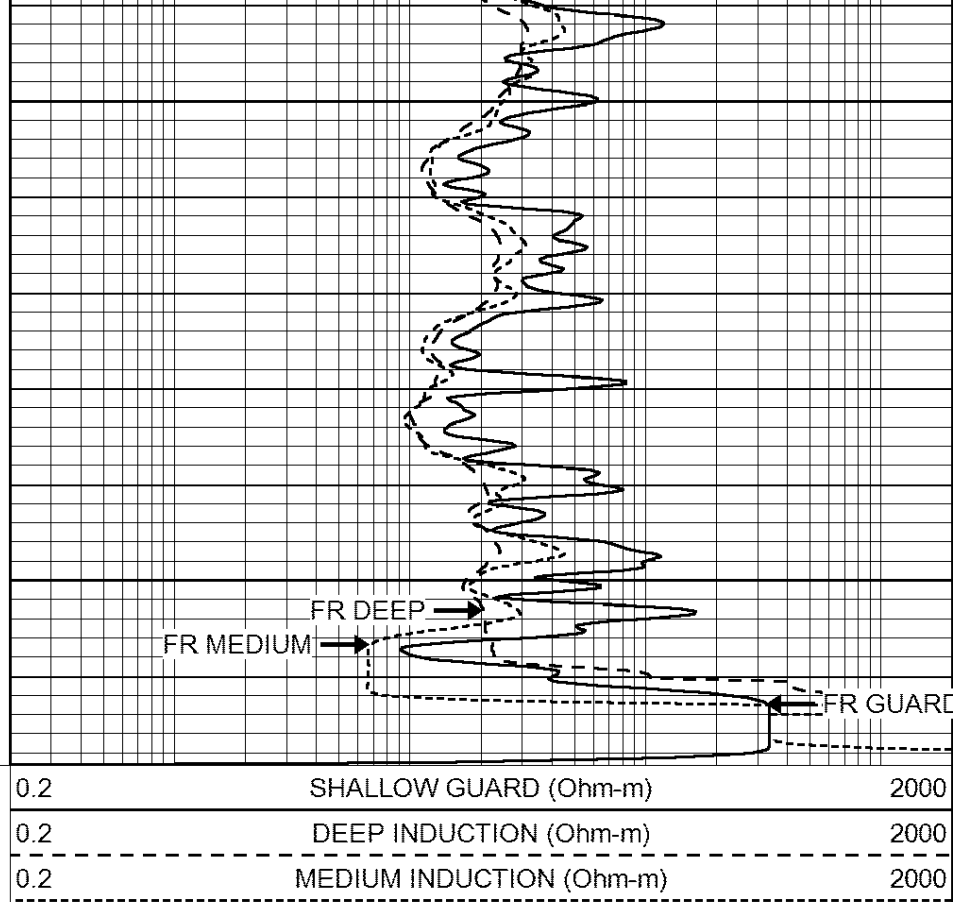
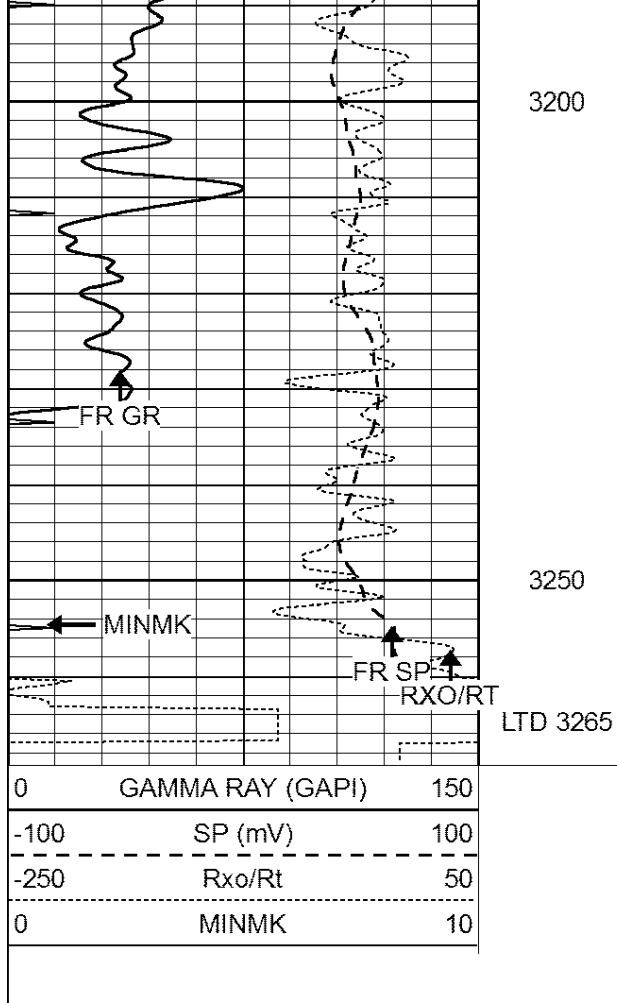
3000

3050

3100

3150

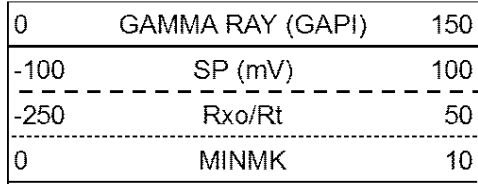




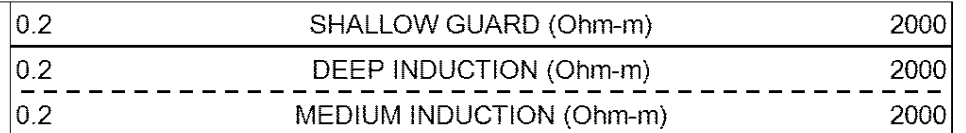
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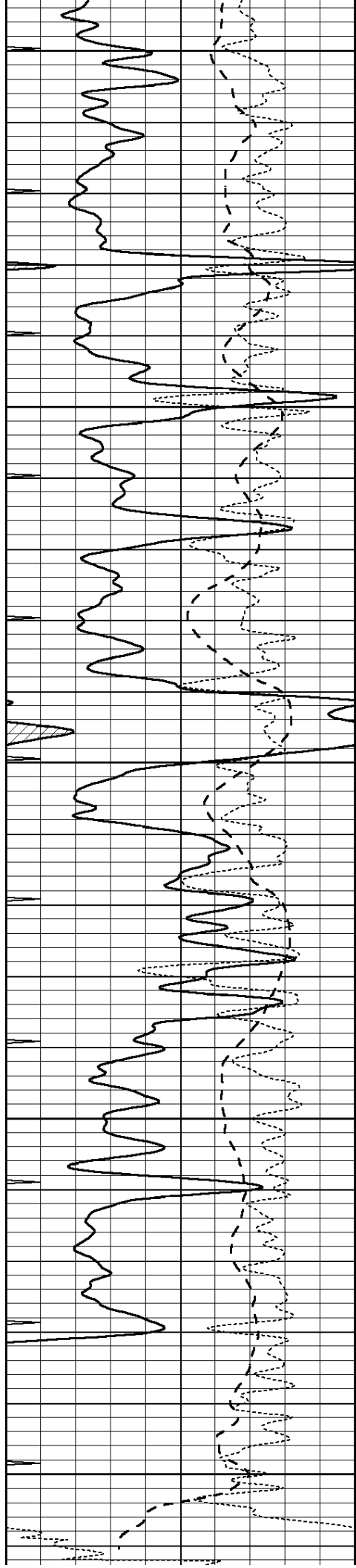
REPEAT SECTION

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 Charted by: Depth in Feet scaled 1:240



3000





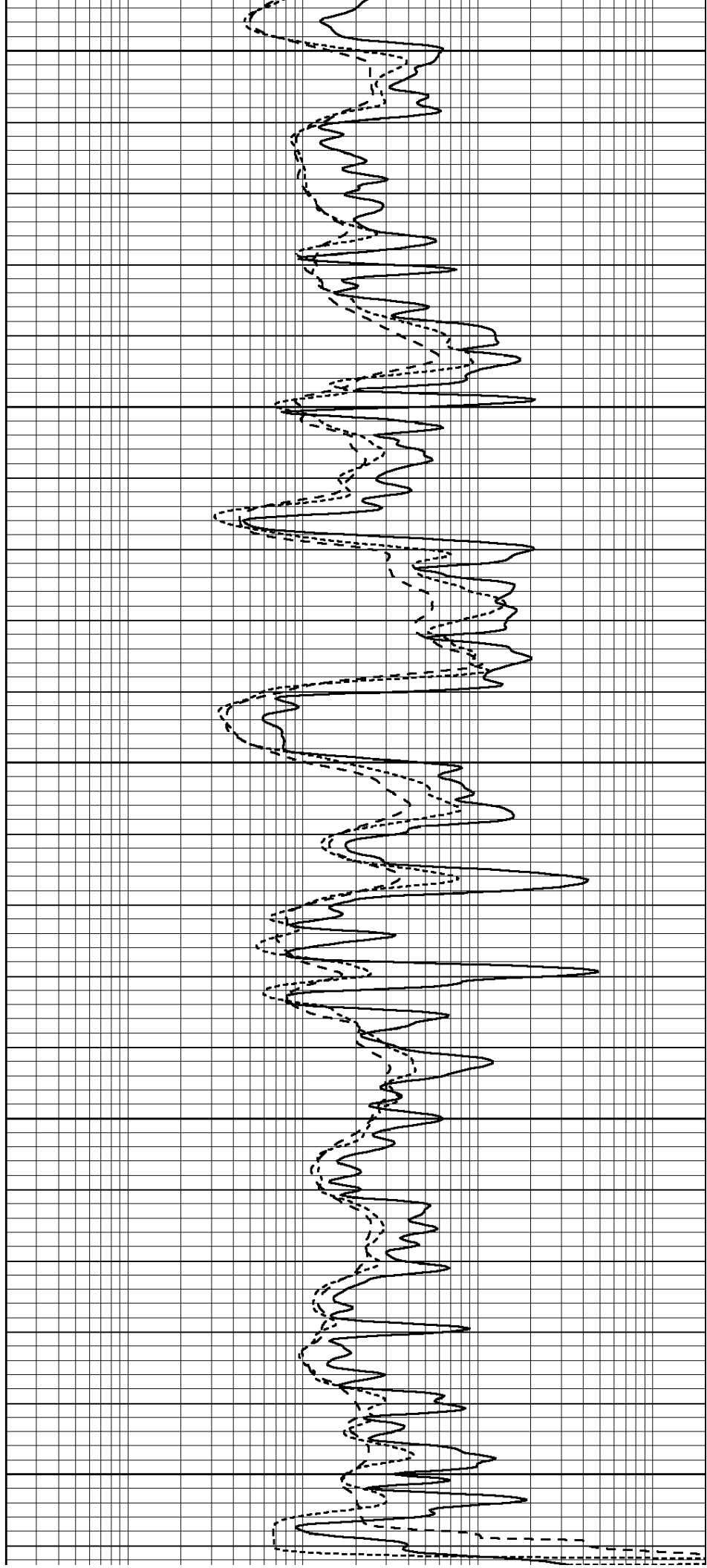
3050

3100

3150

3200

3250



0	GAMMA RAY (GAPI)	150	0.2	SHALLOW GUARD (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	Rxo/Rt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	10			

Calibration Report					
Database File:	007085ddn.db				
Dataset Pathname:	pass3.3				
Dataset Creation:	Thu Jul 07 05:27:49 2011 by Calc Open-Cased 110302				

Dual Induction Calibration Report					
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Serial-Model:	DIL3-GEAR				
Performed:	Thu Jul 07 02:54:38 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	7.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-7.000
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 Report	
Serial: 006	Model: PRB
Performed Sun Aug 15 09:48:41 2010	

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1686.6	11612.8	3932.0	12718.8	cps
Window 2	1531.4	9204.7	3267.8	9851.9	cps
Window 3	1198.3	4733.6	1952.5	4920.6	cps
Window 4	317.3	321.2	325.9	303.6	cps
Long Space	0.0	7673.3	1736.4	8320.4	cps
Short Space	1.7	2548.5	1657.2	2628.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 43.8	Rib Slope	: 0.961	Density/Spine Ratio	: 0.569
Spine Angle	: 73.8	Spine Slope	: 3.453	Spine Intercept	: -18.1

Caliper					
Low Ref	Readings	Reference			
High Ref	4.4	8.0			
	6.5	15.0			
	Gain: 3.2		Offset: -6.1		

Compensated Neutron Calibration Report					
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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:	Thu Jul 07 04:38:28 2011				
Calibrator Value:	200.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	189.0	cps			
Sensitivity:	4.0000	GAPI/cps			