



**COMPLETION
& PRODUCTION
SERVICES CO.**

**DUAL
INDUCTION
LOG**

Company	AMERICAN ENERGIES CORPORATION		
Well	LAWRENCE #1-17		
Field	RITZ-CANTON		
County	MCPHERSON	State	KANSAS
Location:	API # : 15-113-21355-0000 330' FNL & 660' FEL N/2 - NE - NE		Other Services CDL/CNL
Permanent Datum	SEC 17 TWP 20S RGE 1W	Elevation	
Log Measured From	GROUND LEVEL	Elevation	1548
Drilling Measured From	KELLY BUSHING 9' A.G.L. KELLY BUSHING	K.B. 1557 D.F. 1555 G.L. 1548	
Date	11/14/12		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3502		
Bottom Logged Interval	3500		
Top Log Interval	00		
Casing Driller	8 5/8" @ 218		
Casing Logger	218		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5/61	CHLORIDES 1,200 PPM	
pH / Fluid Loss	9.0/9.4		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	2.0 @ 71F		
Rmf @ Meas. Temp	1.5 @ 71F		
Rmc @ Meas. Temp	2.4 @ 71F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	1.2 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:00 P.M.		
Maximum Recorded Temperature	111F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	DOUG DAVIS		

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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 (785) 628-6395
DIRECTIONS

McPHERSON, KS. - E. ON HWY 56 TO CANTON - 4 S. ON 27TH RD. TO EISENHOWER RD.
1 1/8 MILES W. - S. INTO

Database File:

010128ddn.db

Dataset Pathname:

pass3.2

Presentation Format:

_dil2

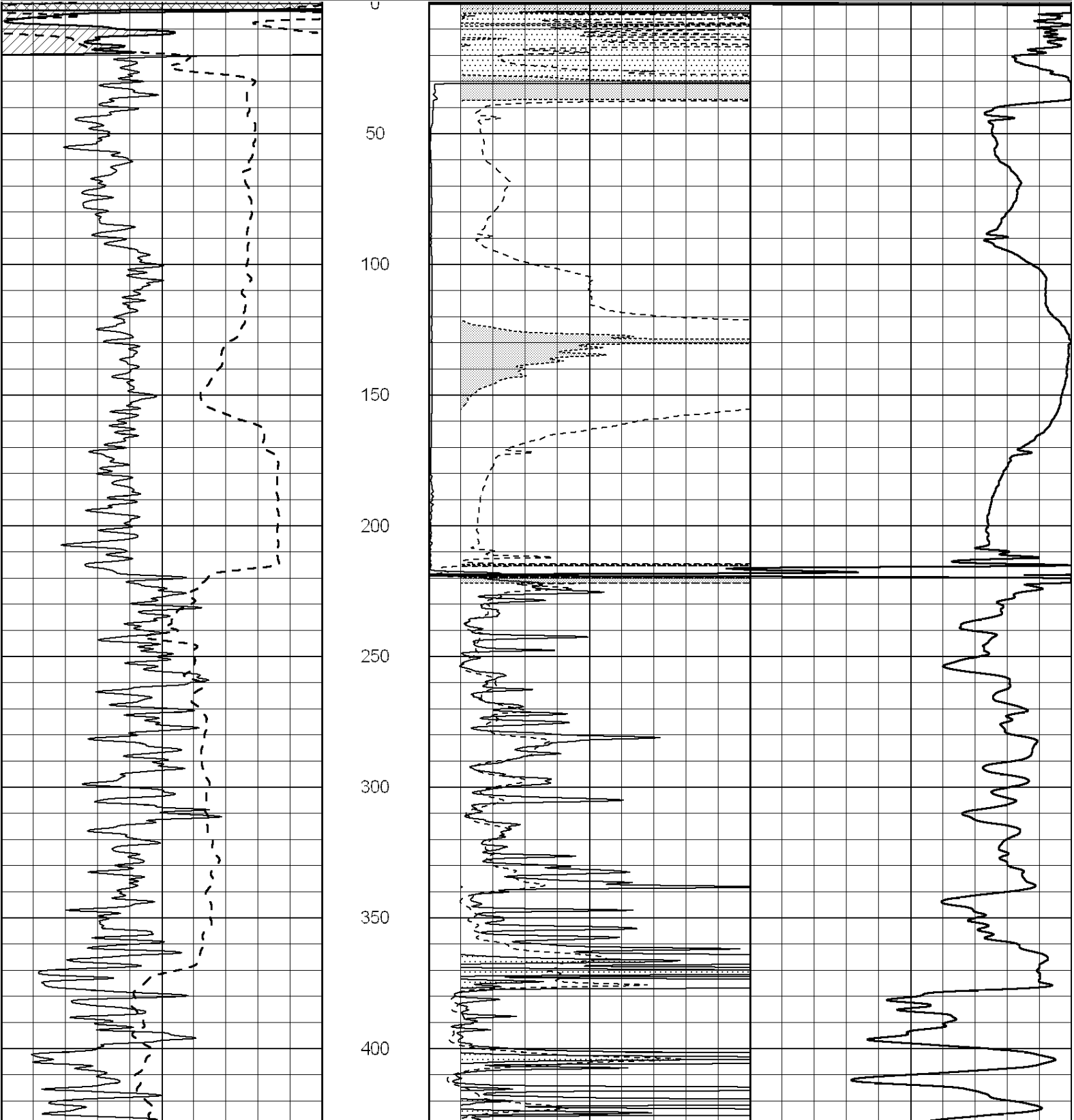
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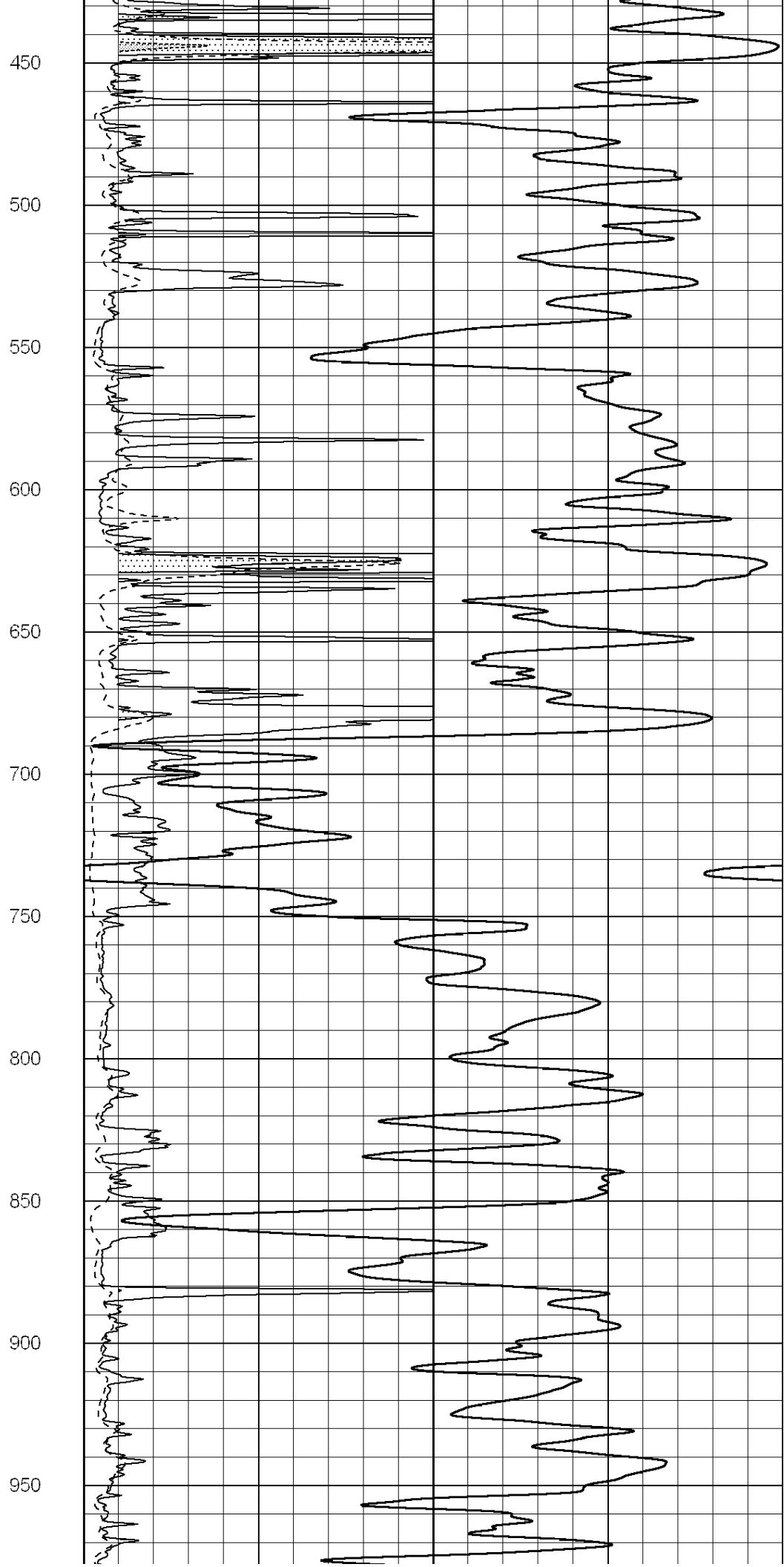
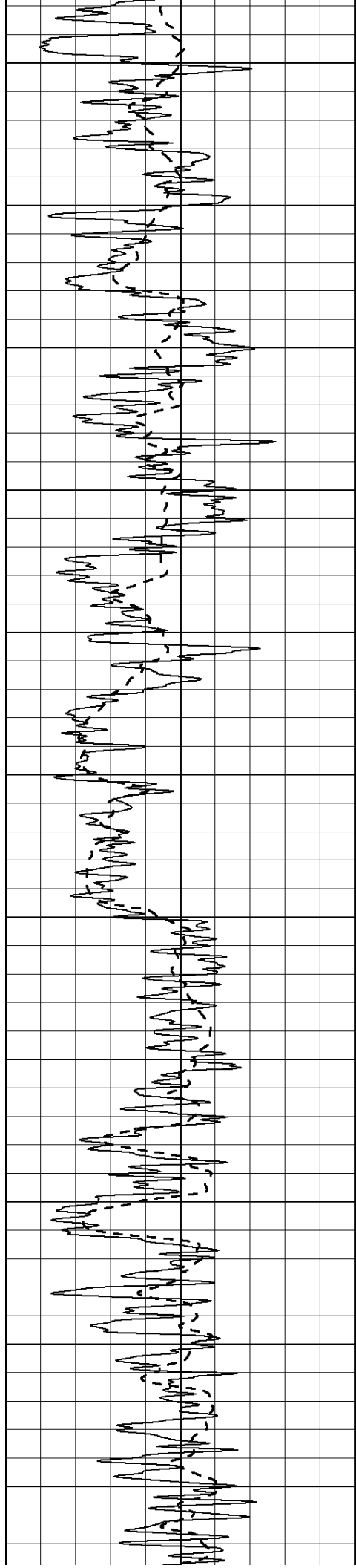
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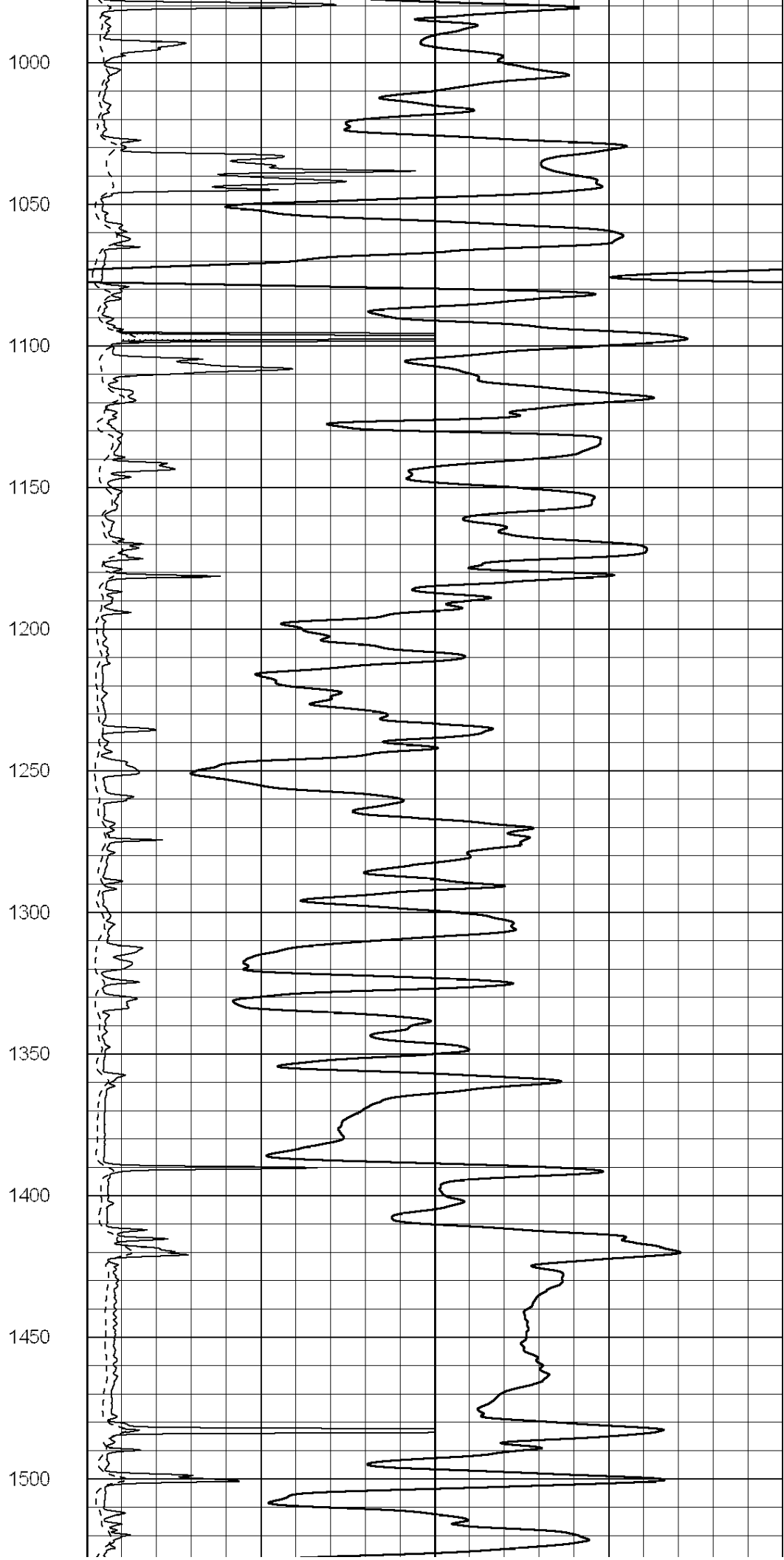
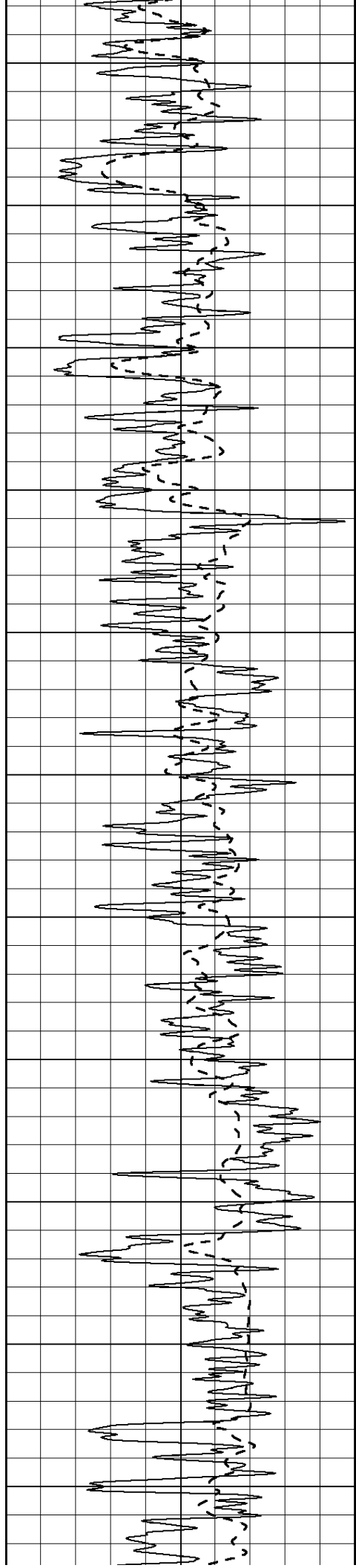
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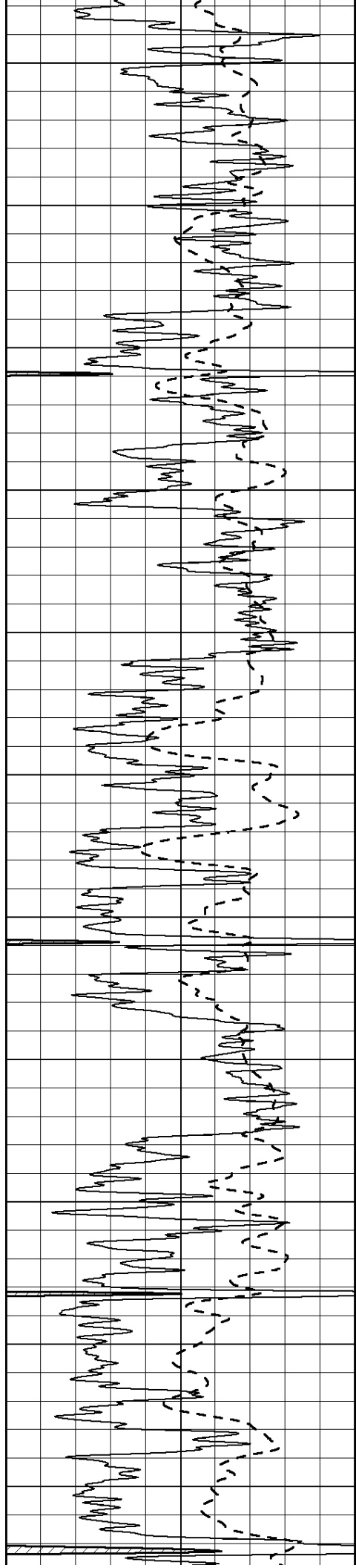
Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50
-100	SP (mV)	100	0	Deep Induction (Ohm-m)	50
-----			-----		
			1000	CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500
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1550

1600

1650

1700

1750

1800

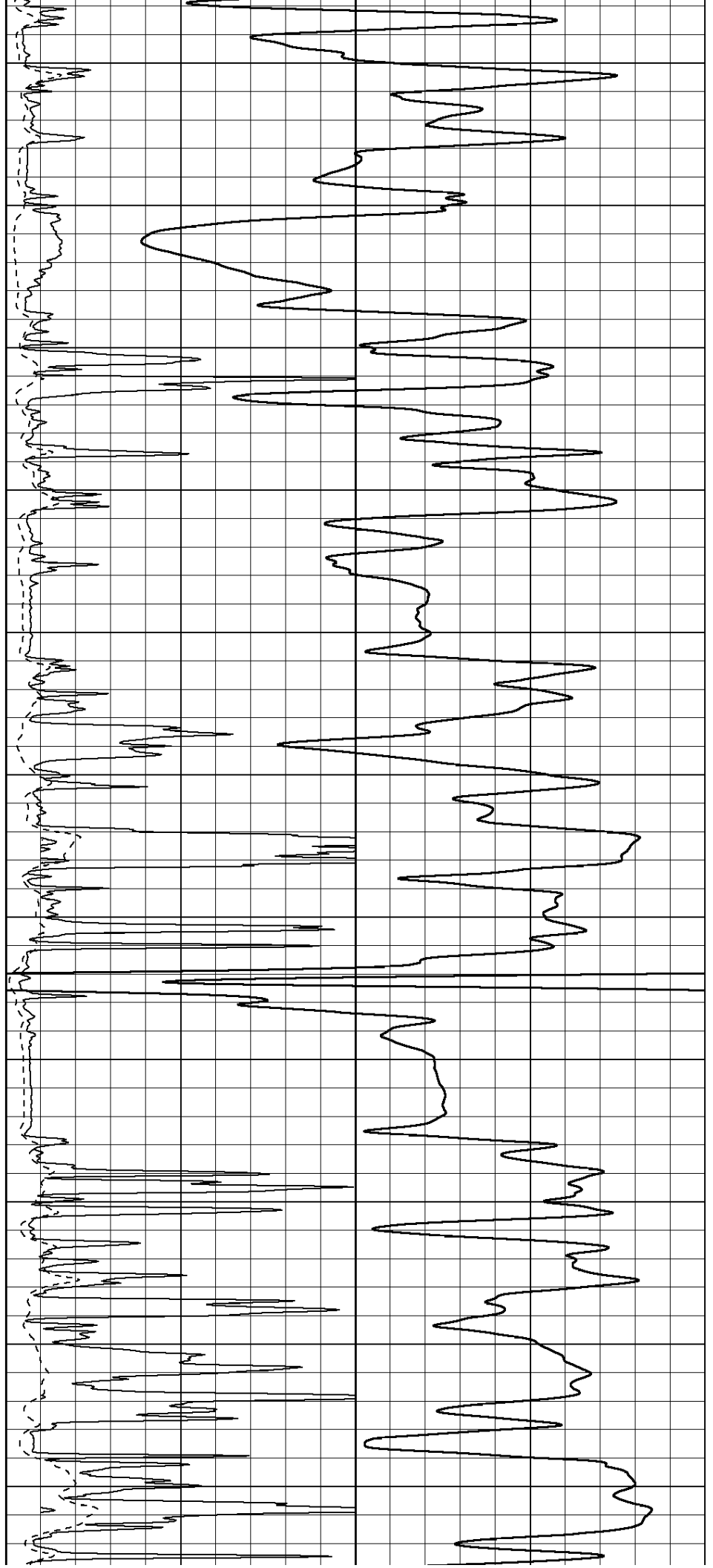
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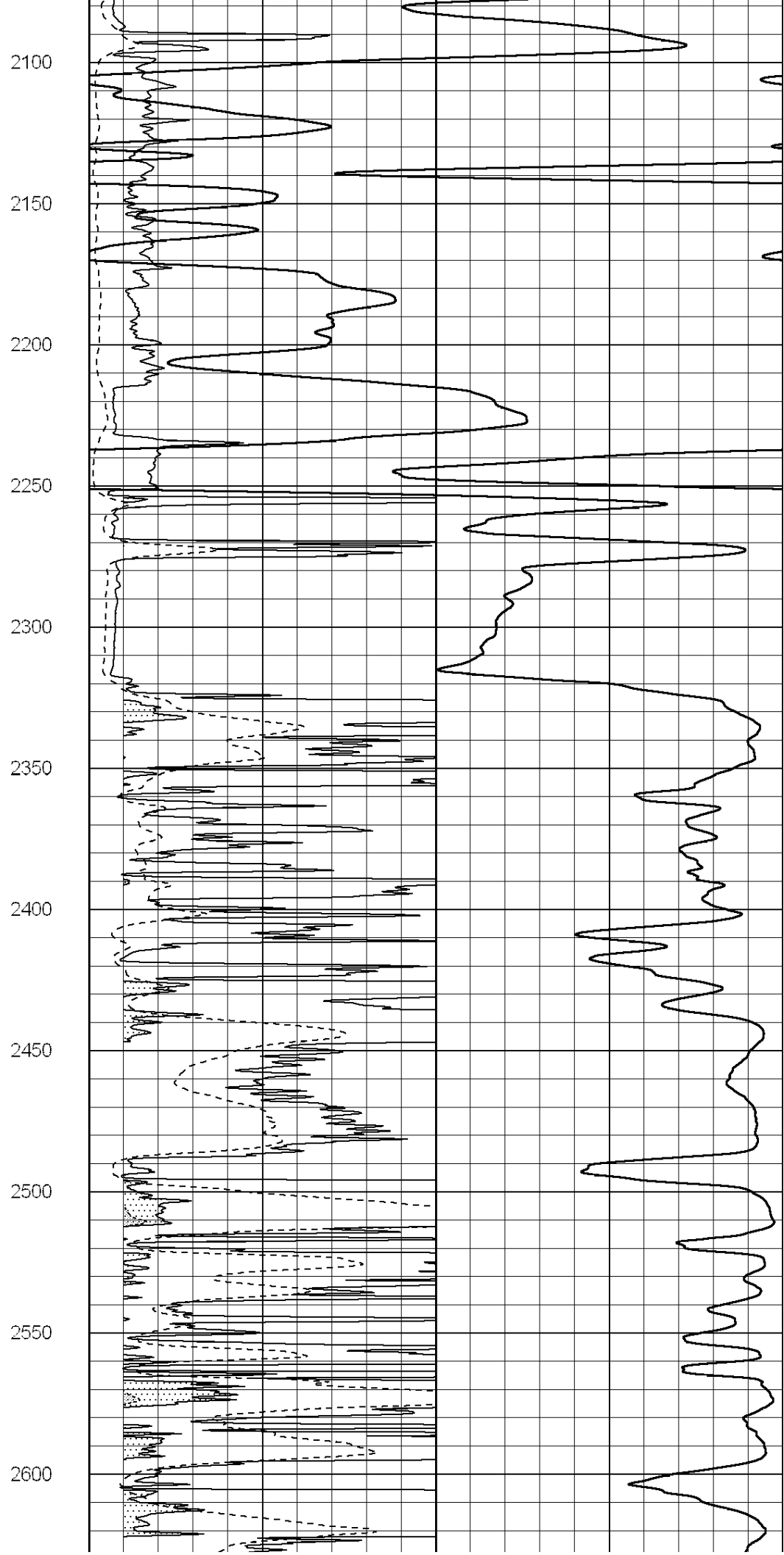
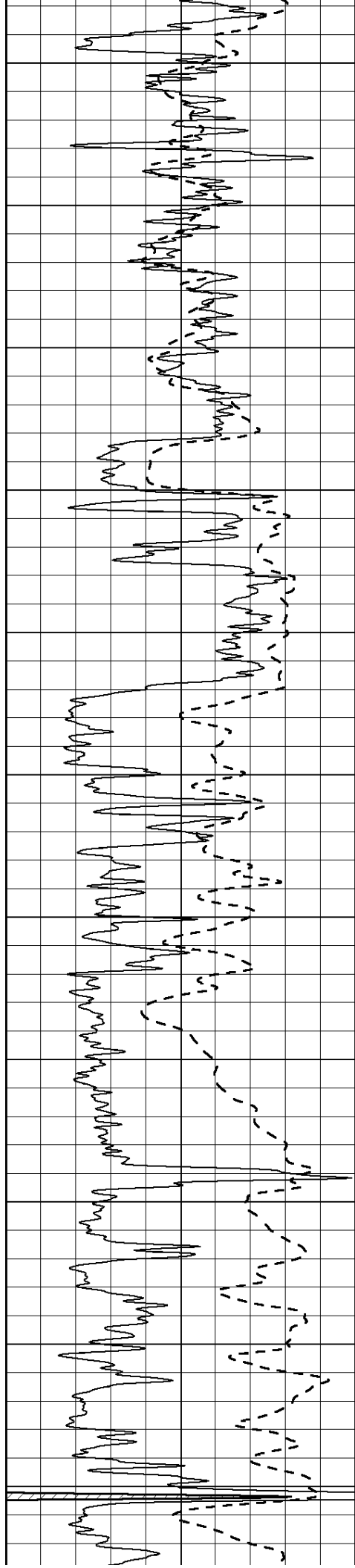
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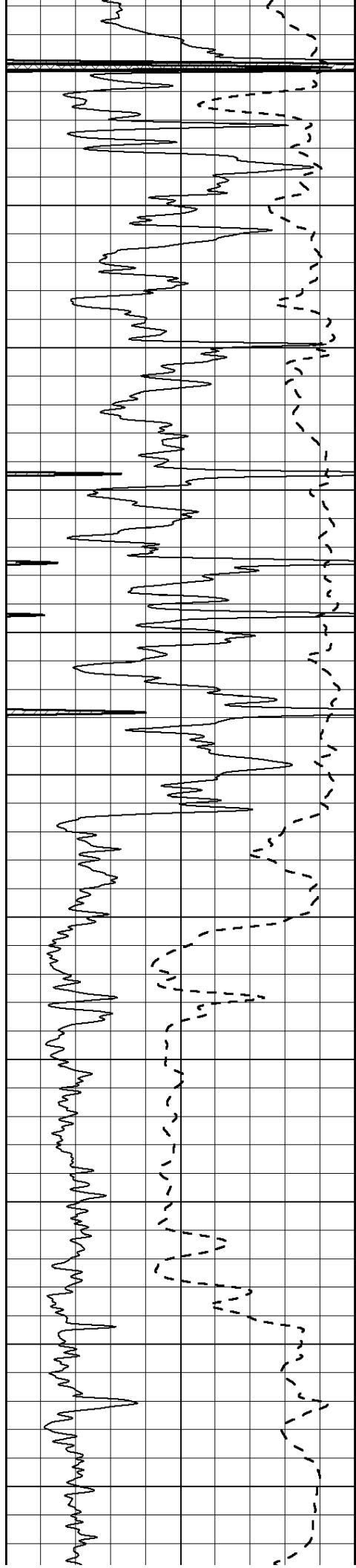
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2000

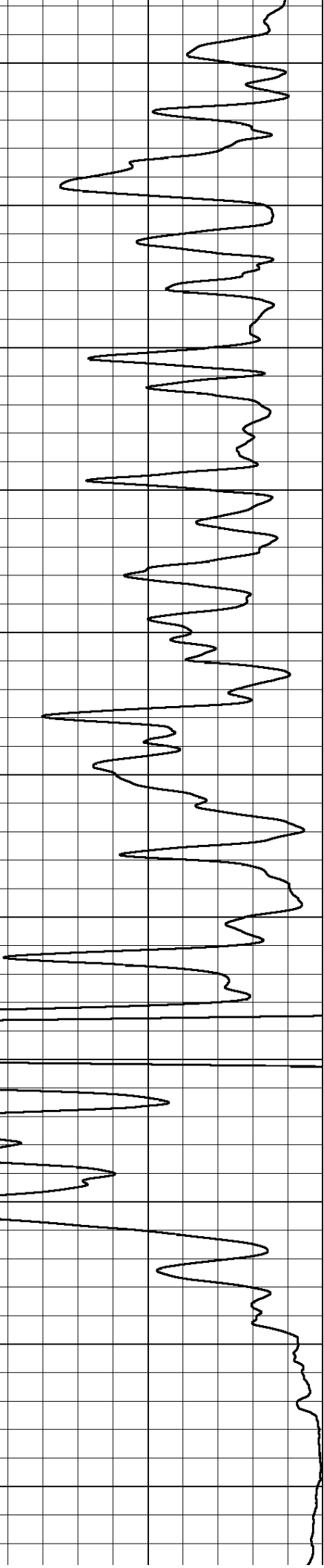
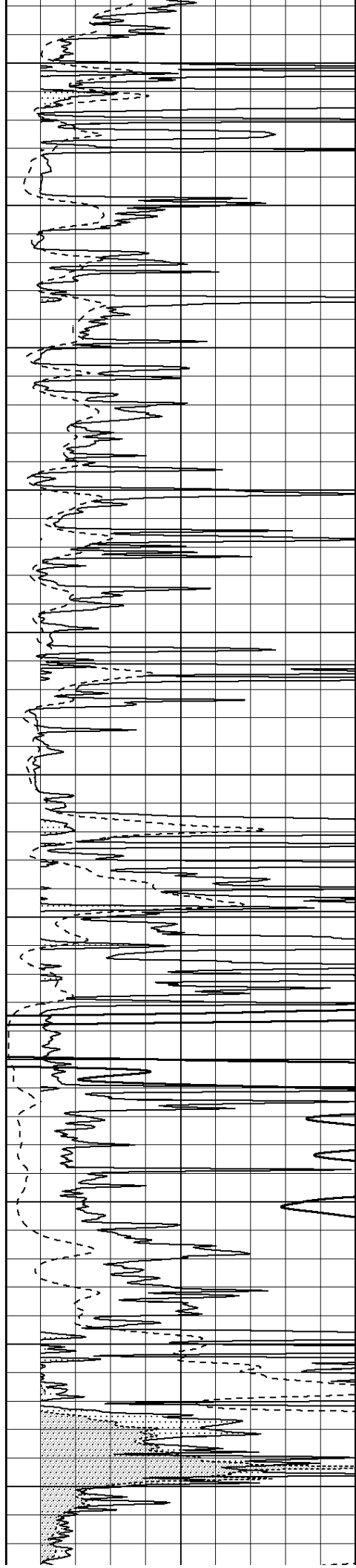
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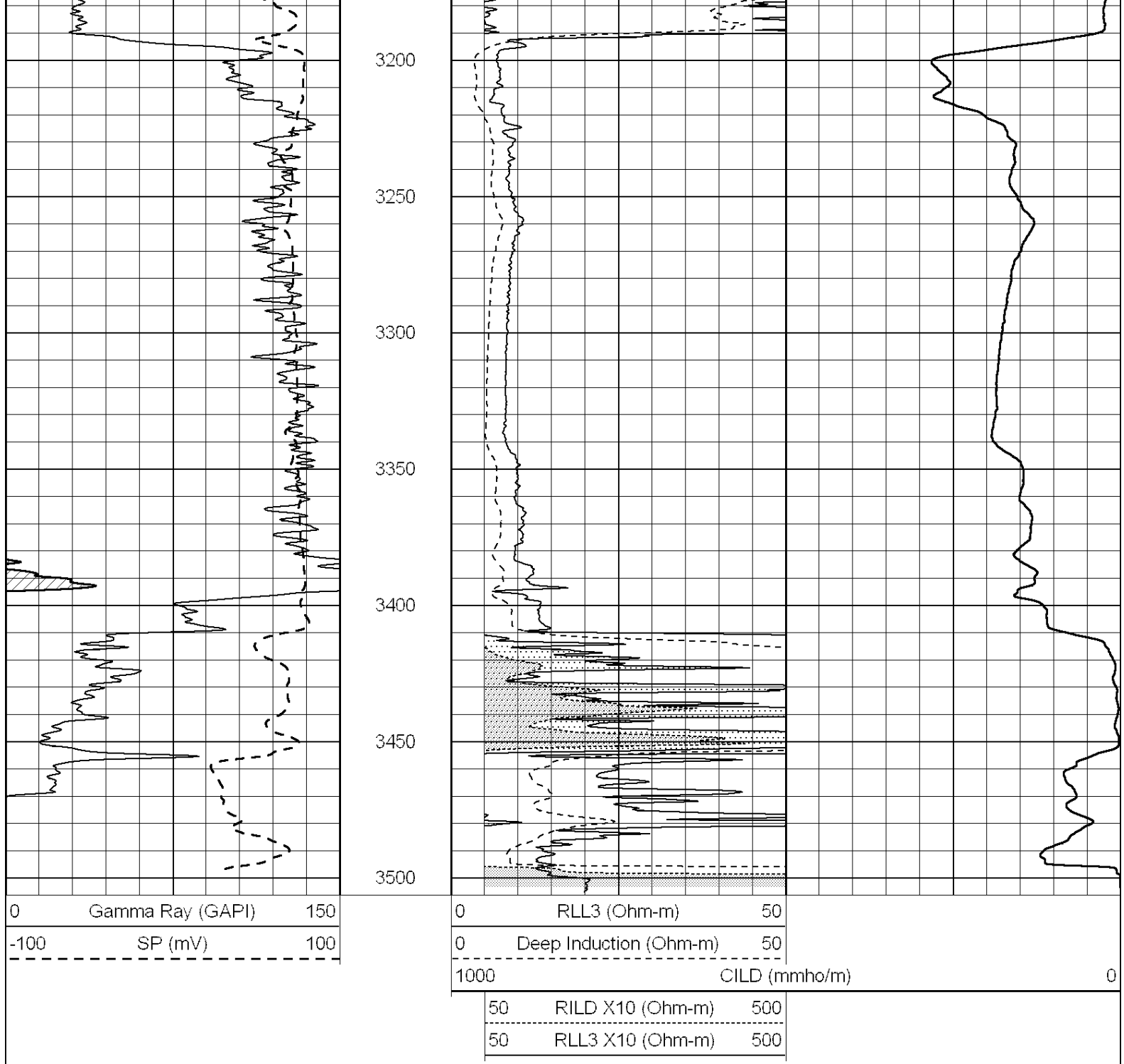






2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150





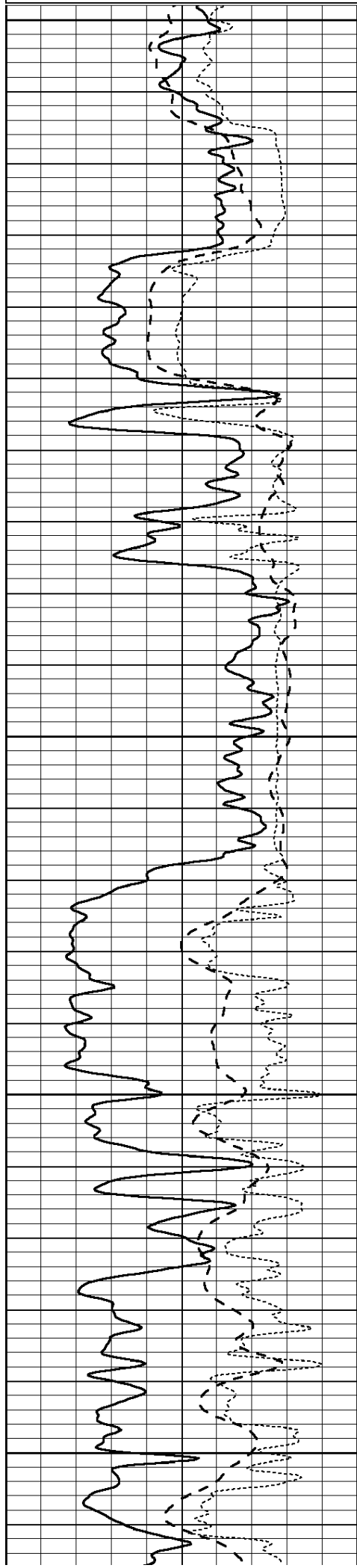
NABORS
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MAIN SECTION

Database File: 010128ddn.db
Dataset Pathname: pass3.1
Presentation Format: _dil
Dataset Creation: Wed Nov 14 19:50:08 2012 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



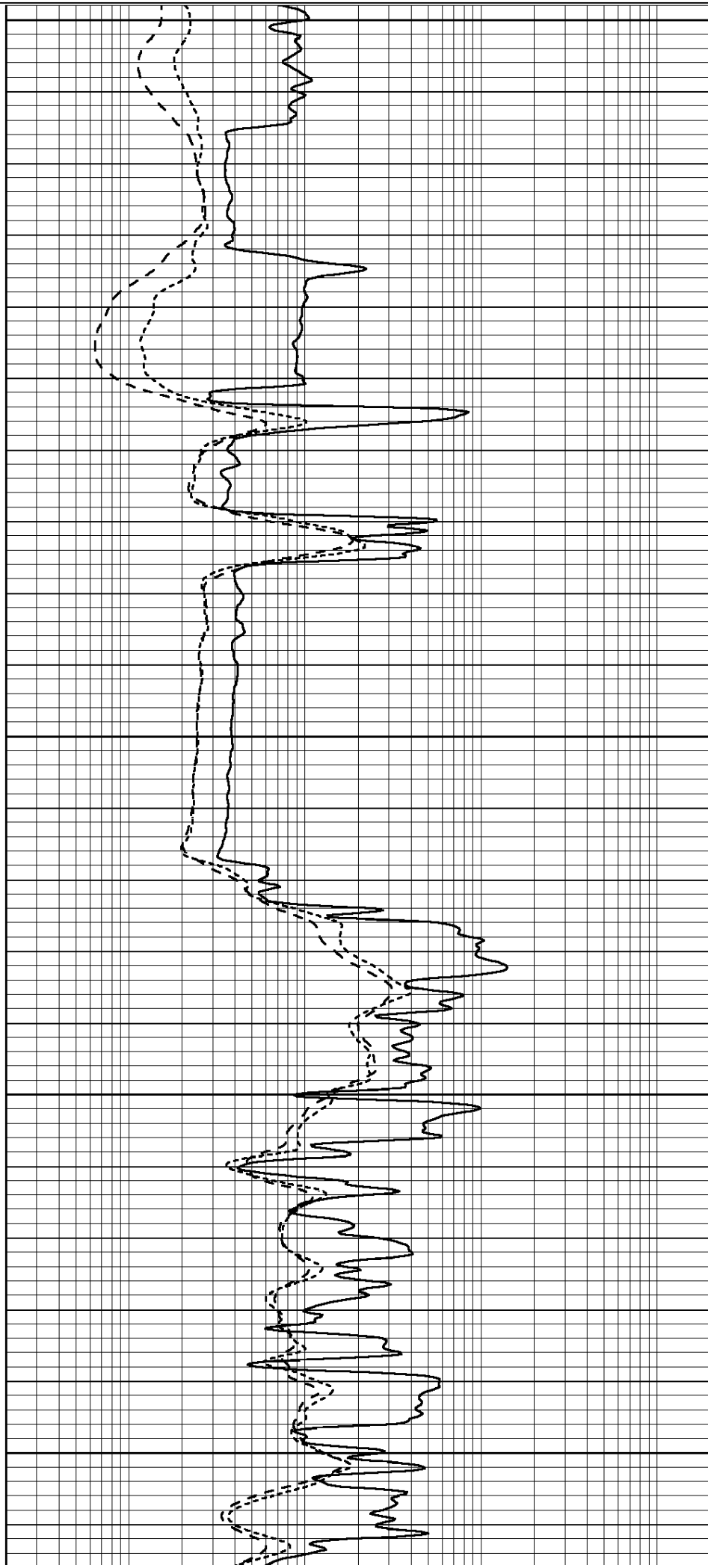
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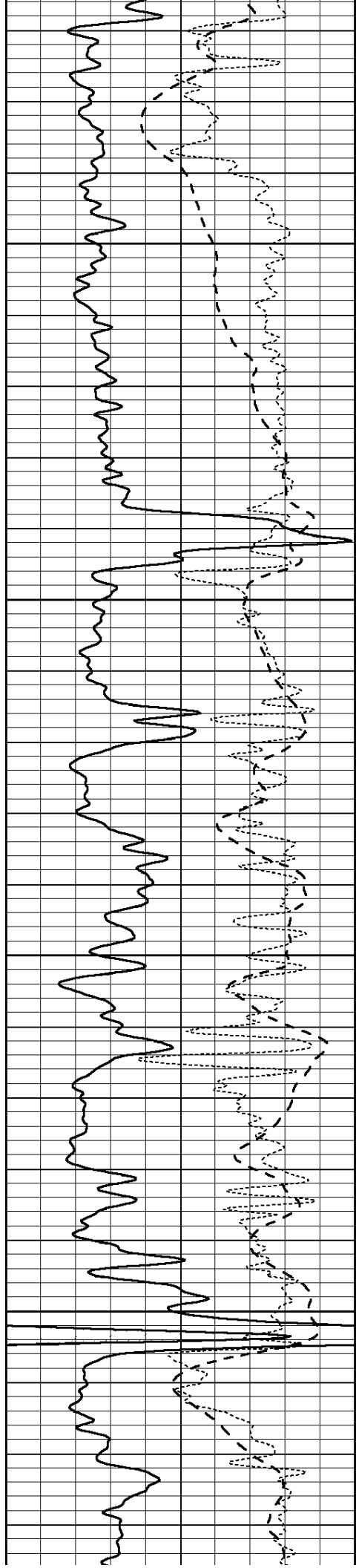
2250

2300

2350

2400



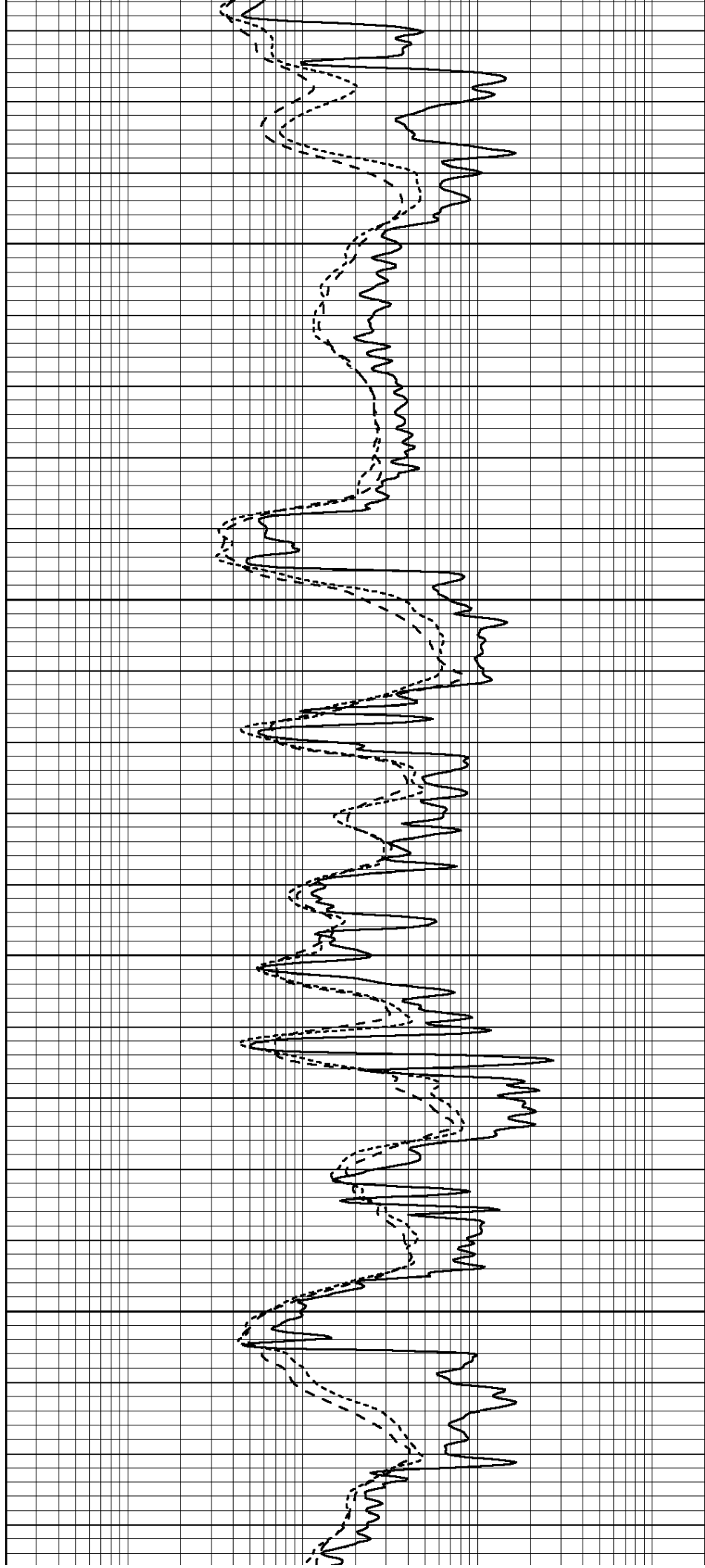


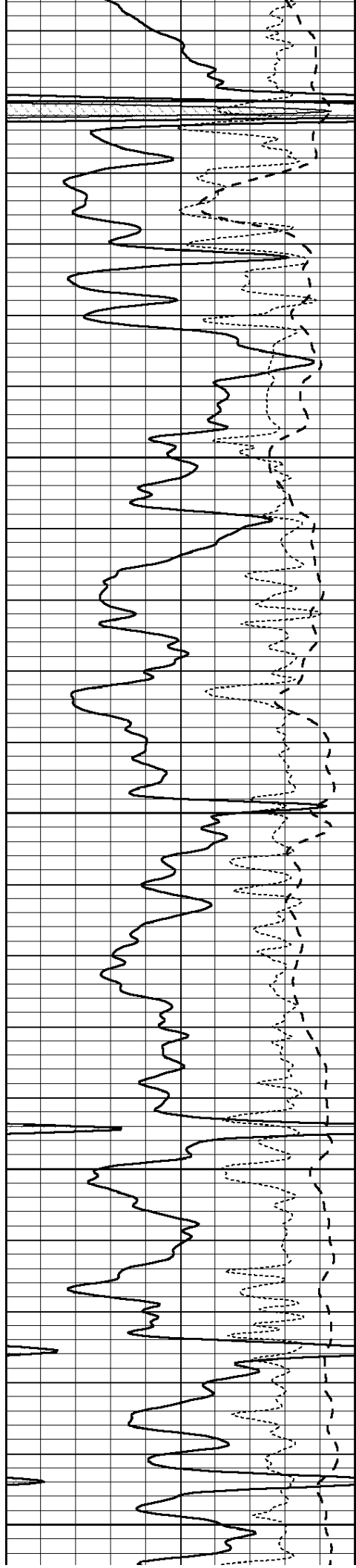
2450

2500

2550

2600





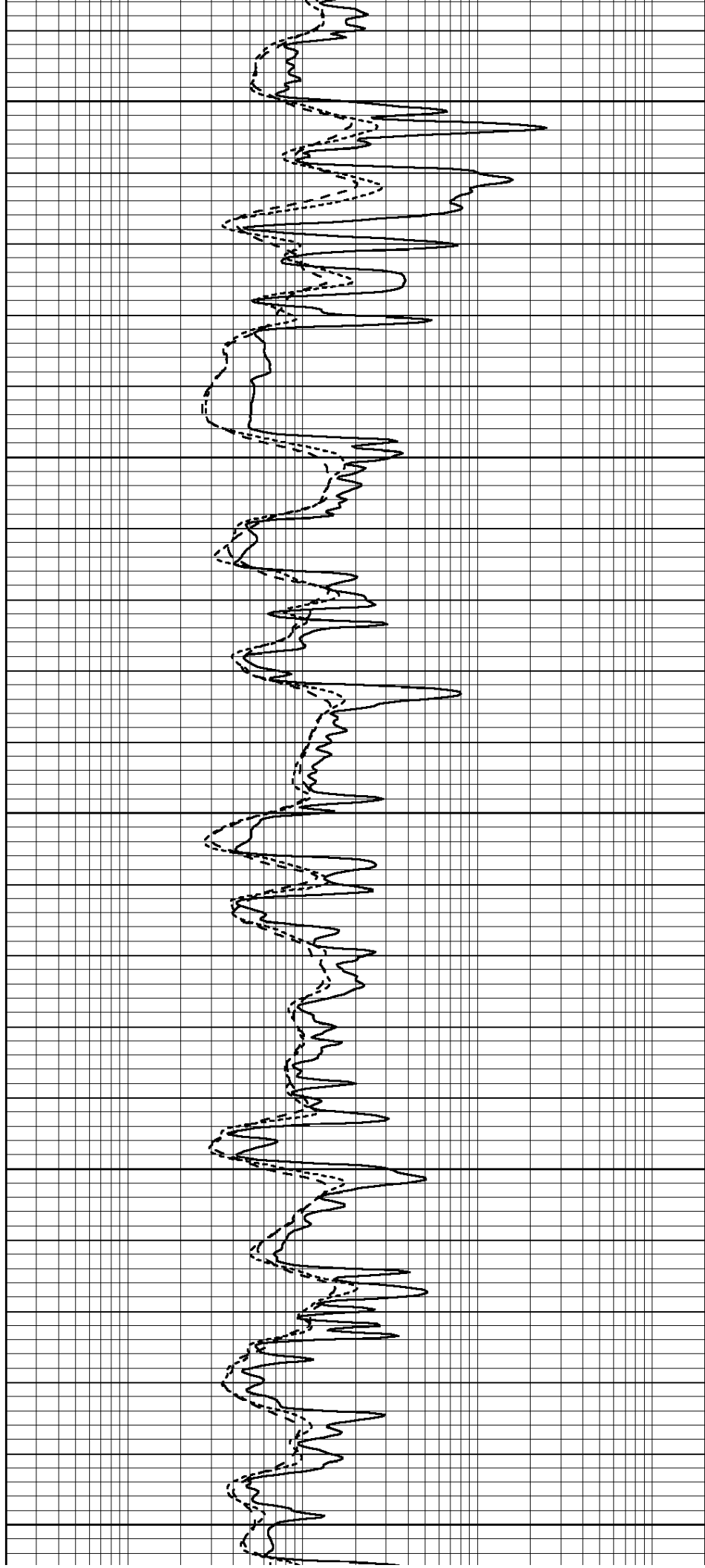
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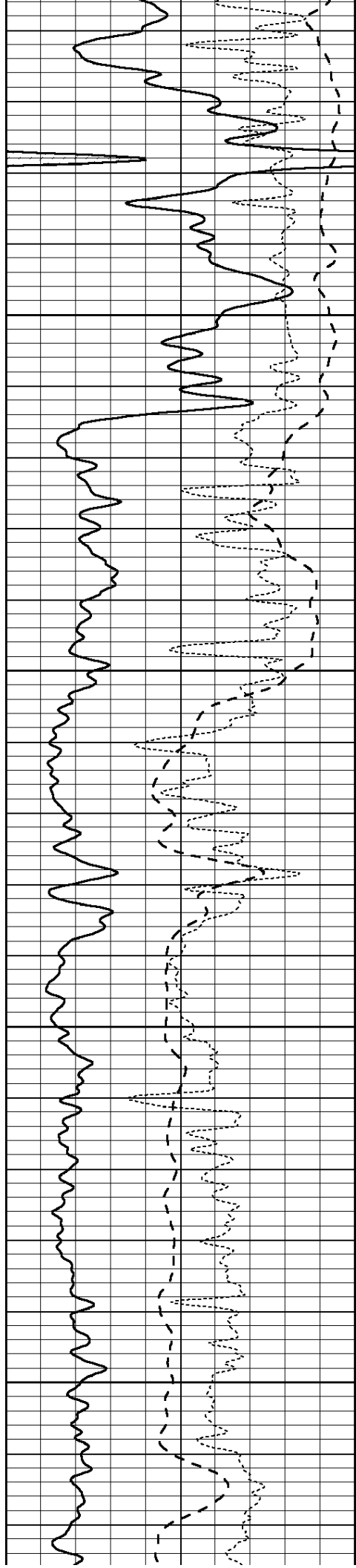
2700

2750

2800

2850



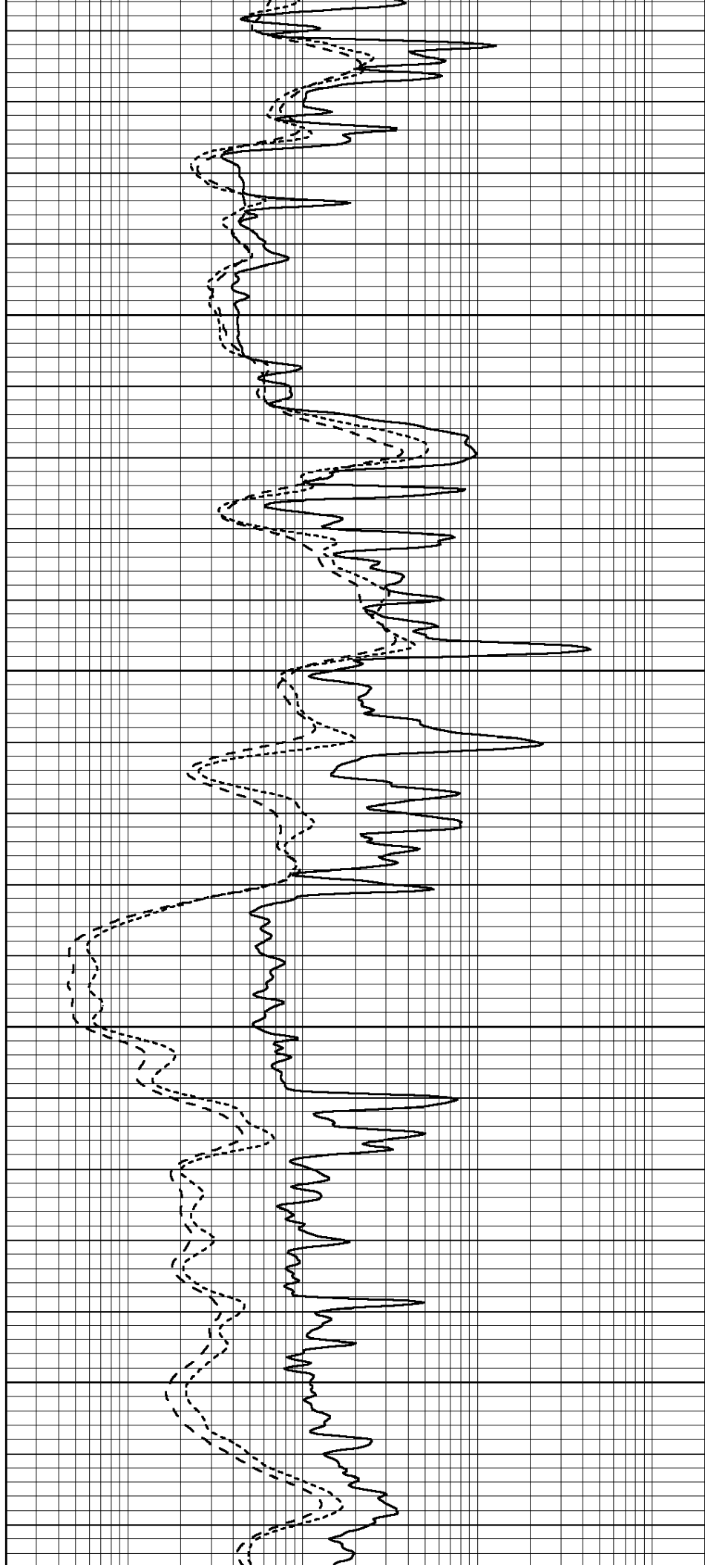


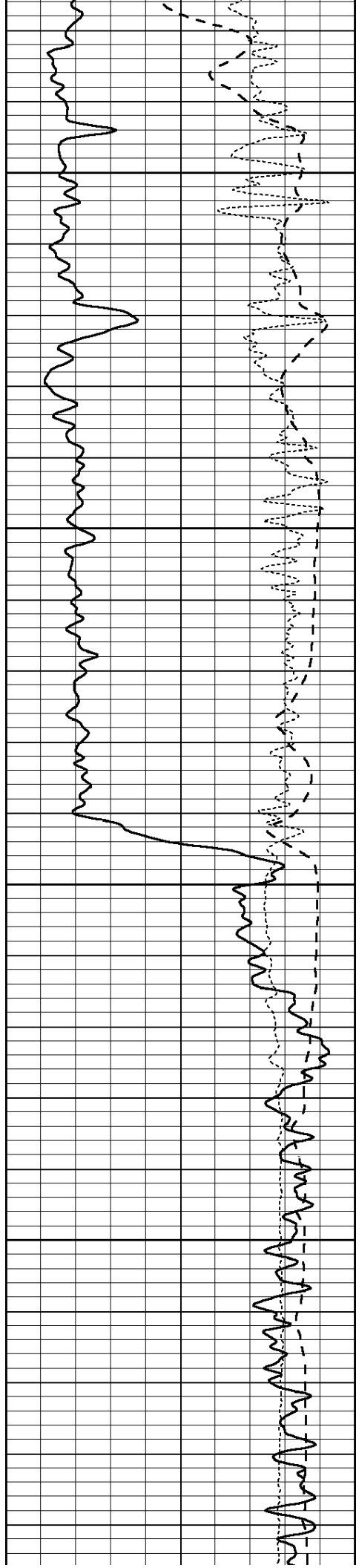
2900

2950

3000

3050



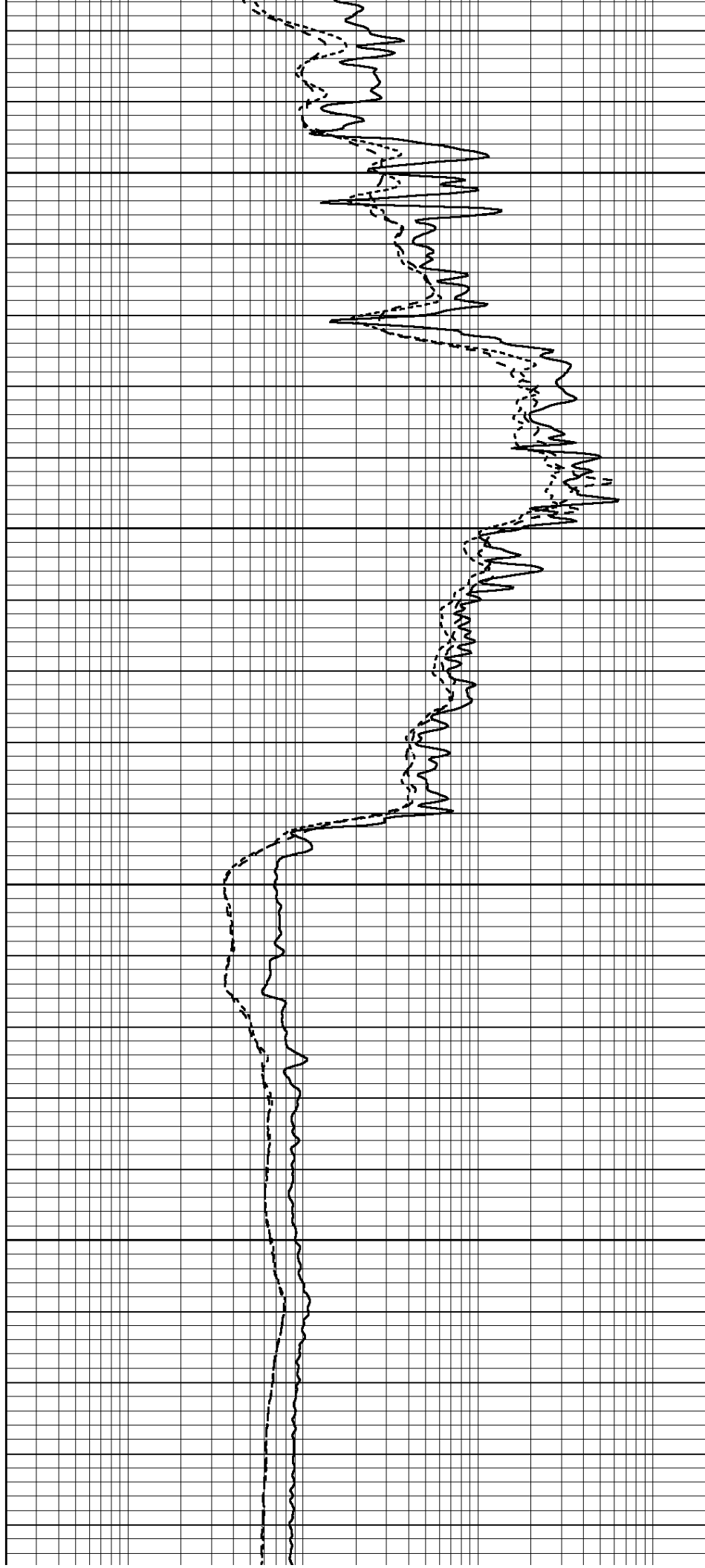


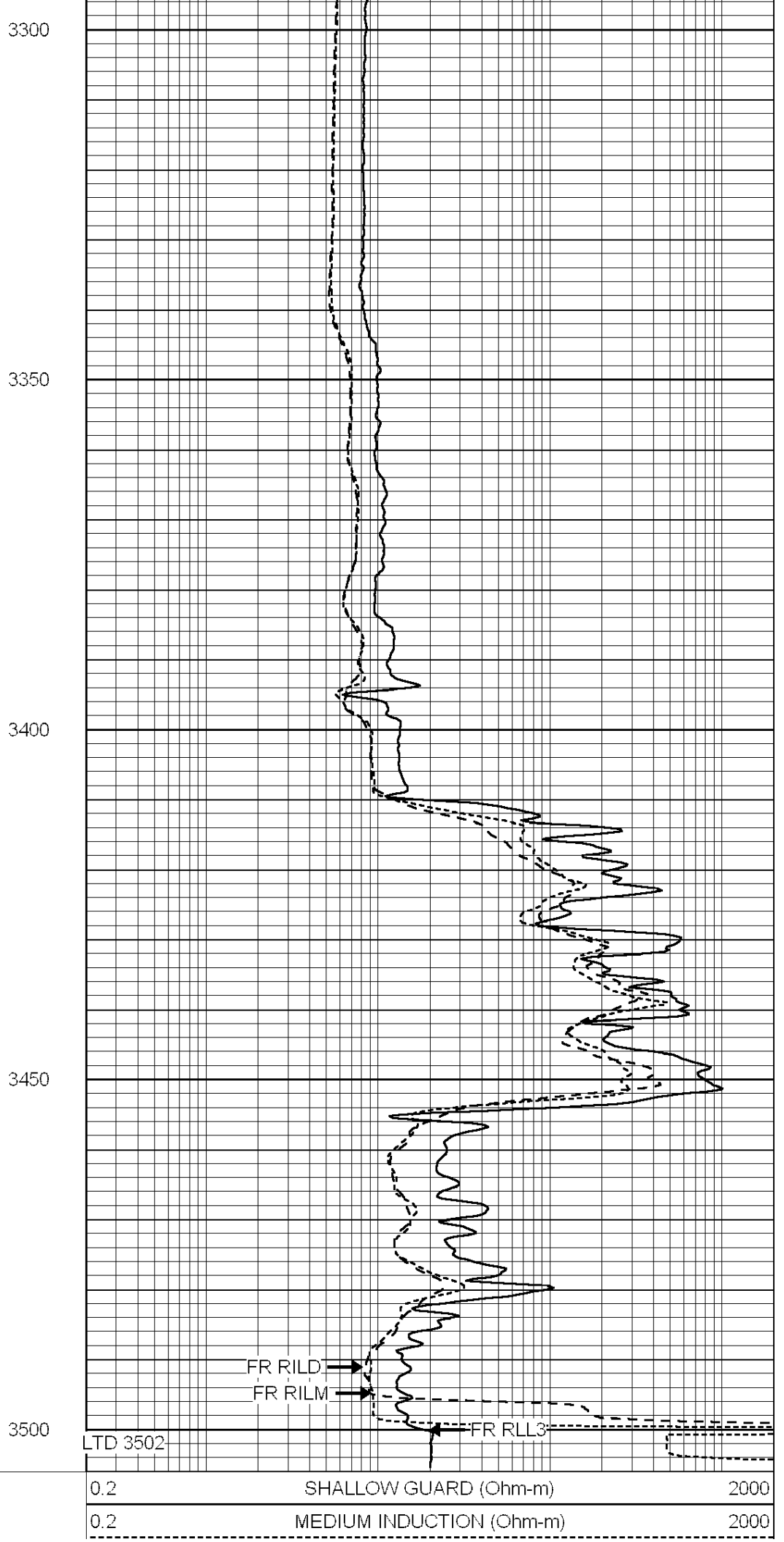
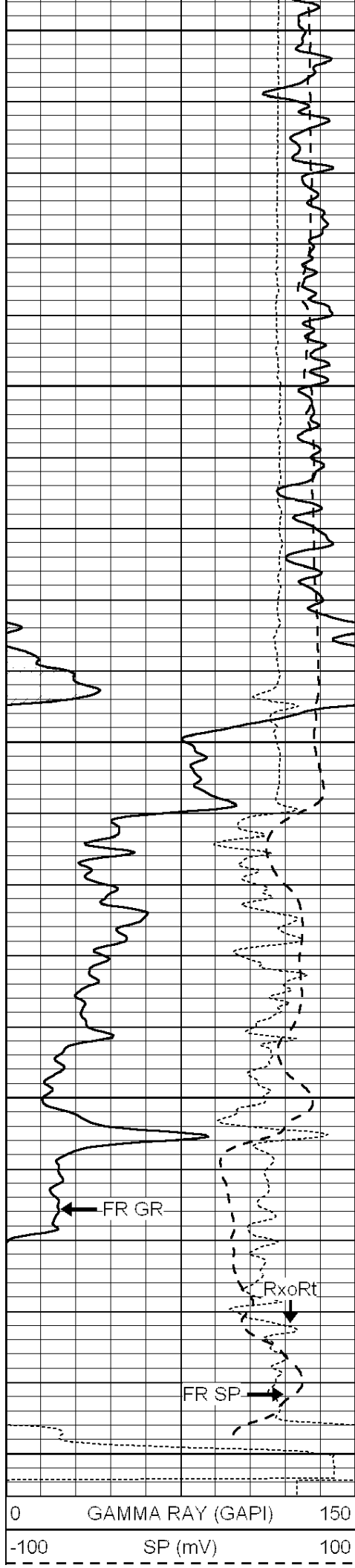
3100

3150

3200

3250







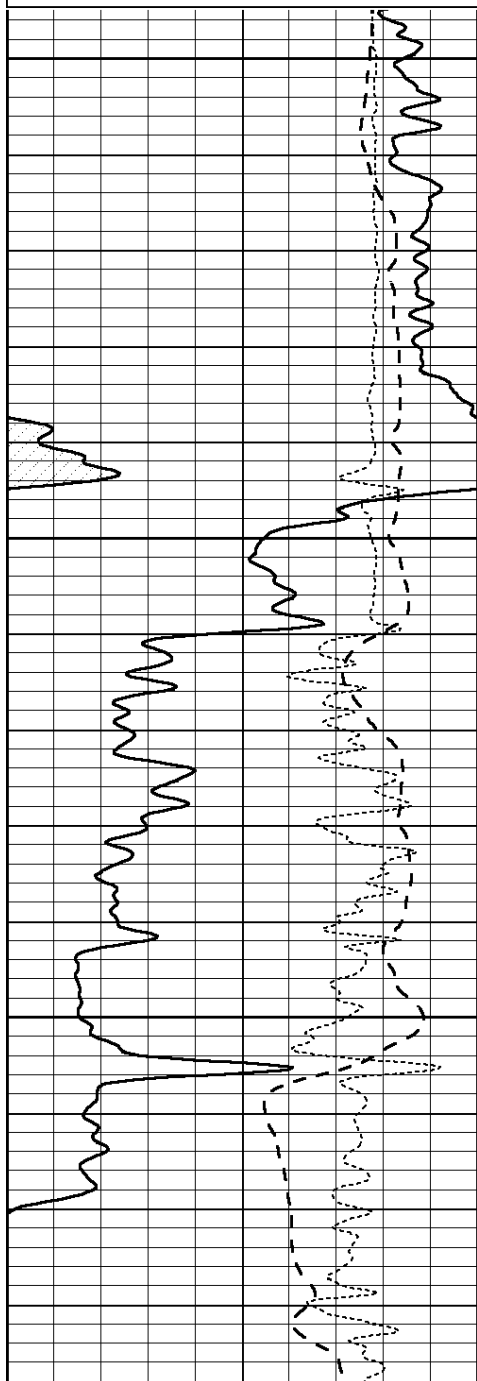
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REPEAT SECTION

Database File: 010128ddn.db
 Dataset Pathname: pass2.2
 Presentation Format: _dil
 Dataset Creation: Wed Nov 14 19:18:14 2012 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

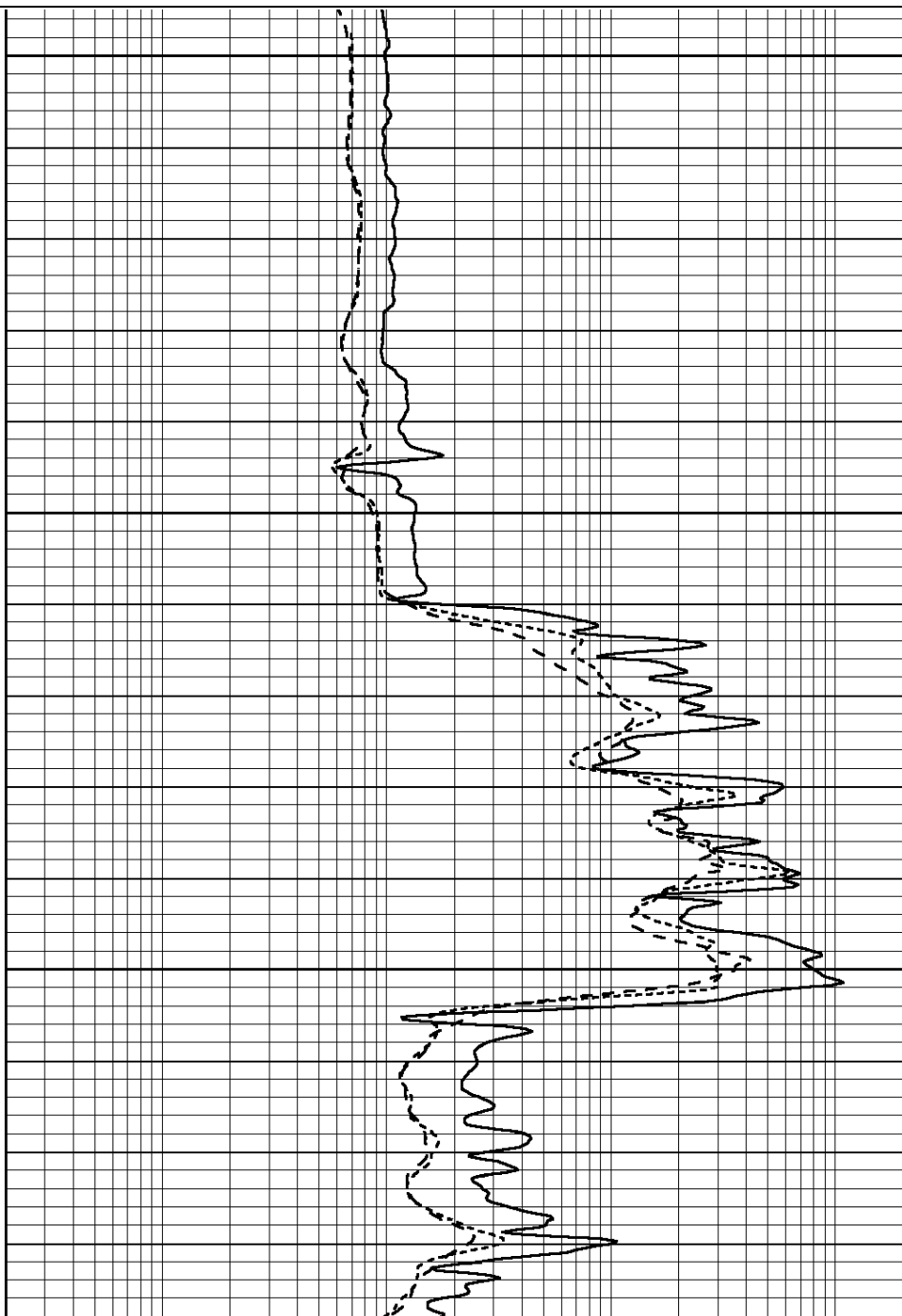
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000

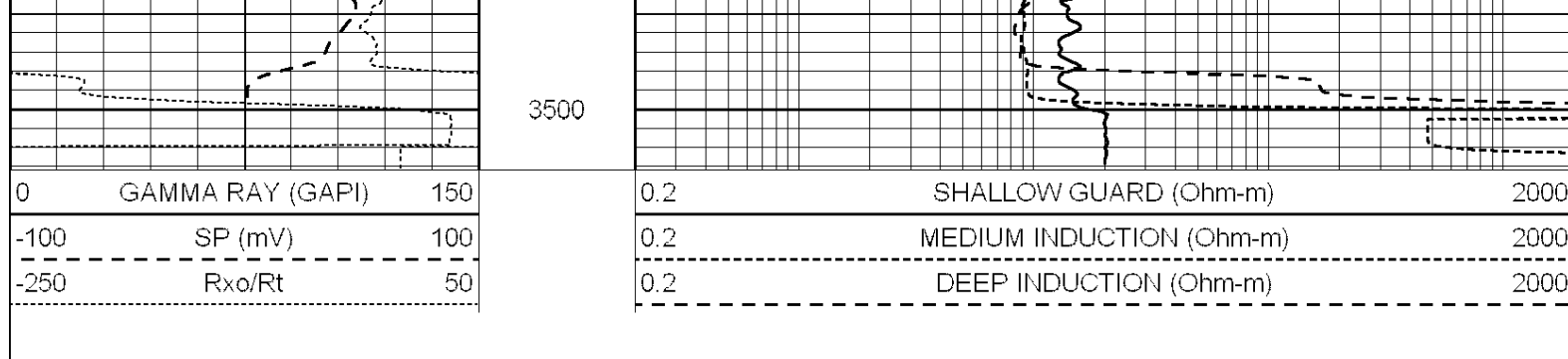


3350

3400

3450





Calibration Report

Database File: 010128ddn.db
 Dataset Pathname: pass2.2
 Dataset Creation: Wed Nov 14 19:18:14 2012 by Calc Open-Cased 090629

Dual Induction Calibration Report

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		
		-7.200	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

Serial-Model: GEAR4-GEARHART
 Source / Verifier: 143 / 143
 Master Calibration Performed: Mon Mar 19 19:07:19 2012

Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1015.91		497.51	cps
Aluminum	2.600	g/cc		227.67		350.20	cps
Spine Angle = 76.79				Density/Spine Ratio = 0.579			
	Size			Reading			
Small Ring	8.00	in		3.21		V	
Large Ring	14.00	in		5.46		V	

Compensated Neutron Calibration Report

Serial Number:	6I
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:	#8	
Tool Model:	OPEN	
Performed:	Mon Jun 13 16:56:43 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8371	GAPI/cps