



SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company I.A. OPERATING, INC.
Well ROGER #10-4
Field WILDCAT
County ELLIS
State KANSAS

Company I.A. OPERATING, INC.
Well ROGER #10-4
Field WILDCAT
County ELLIS State KANSAS

Location: API # : 15-051-25836-0000
900' FSL & 330' FEL
NE - SE - SE
SEC 10 TWP 11S RGE 16W
Permanent Datum GROUND LEVEL Elevation 1899
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MEL
Elevation
K.B. 1904
D.F. 1902
G.L. 1899

Date	10/23/08		
Run Number	TWO		
Depth Driller	3625		
Depth Logger	3624		
Bottom Logged Interval	3622		
Top Log Interval	00		
Casing Driller	8 5/8" @ 220'		
Casing Logger	219		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,200 PPM	
Density / Viscosity	9.0/65		
pH / Fluid Loss	10.0/8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.00 @ 74F		
Rmf @ Meas. Temp	.750 @ 74F		
Rmc @ Meas. Temp	1.20 @ 74F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.655 @ 113F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	10:45 P.M.		
Maximum Recorded Temperature	113F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	RANDY KILIAN		

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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
BLUE HILL SCHOOL, 6N. TO CURVE, 1E., 1/2N., W. INTO



SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 002499ddn.db
Dataset Pathname: pass8.4
Presentation Format: dil2
Dataset Creation: Fri Oct 24 01:41:07 2008 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:600

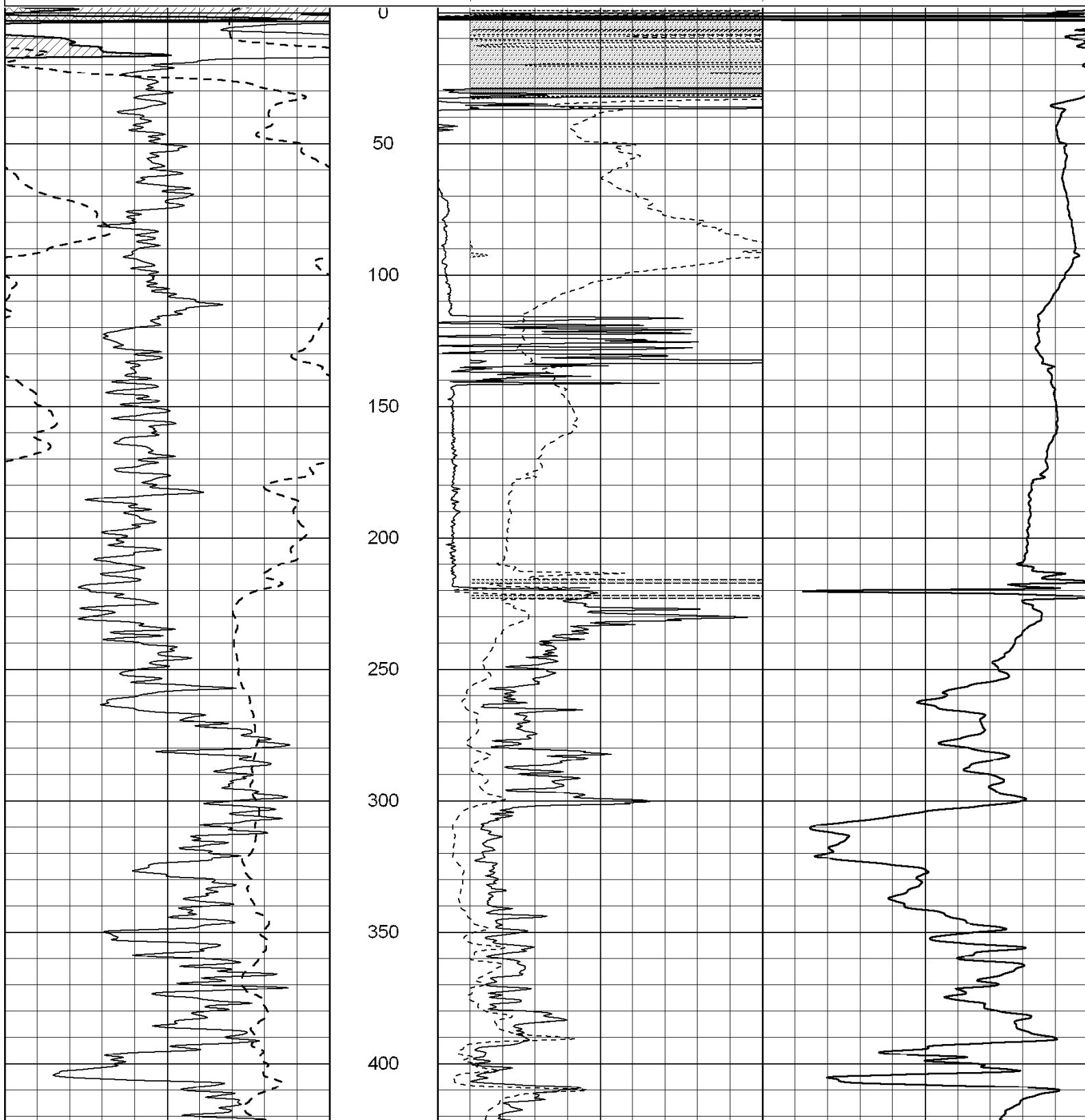
0	Gamma Ray (GAPI)	150
-100	SP (mV)	100

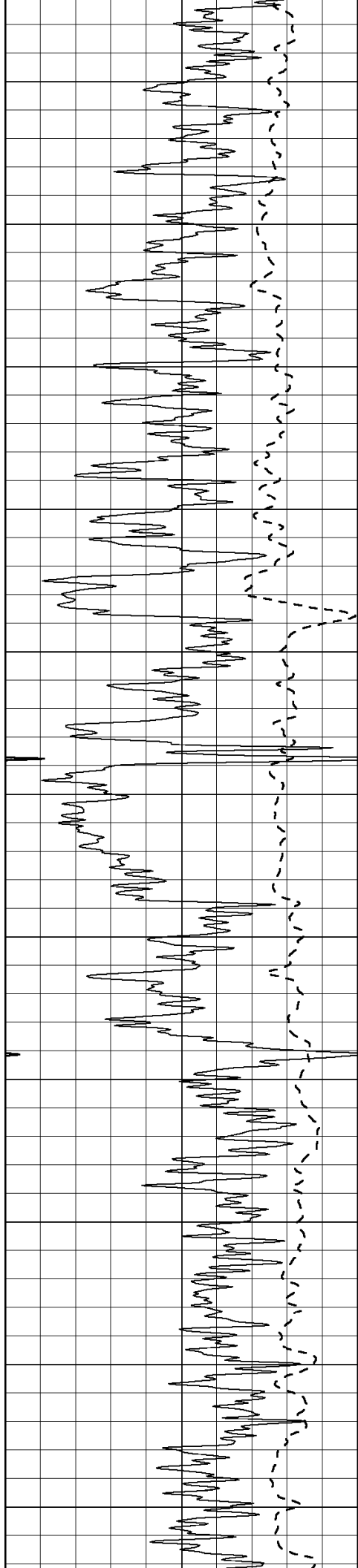
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

1000	CILD (mmho-m)	0
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50	RILD X10 (Ohm-m)	500
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50	RLL3 X10 (Ohm-m)	500
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450

500

550

600

650

700

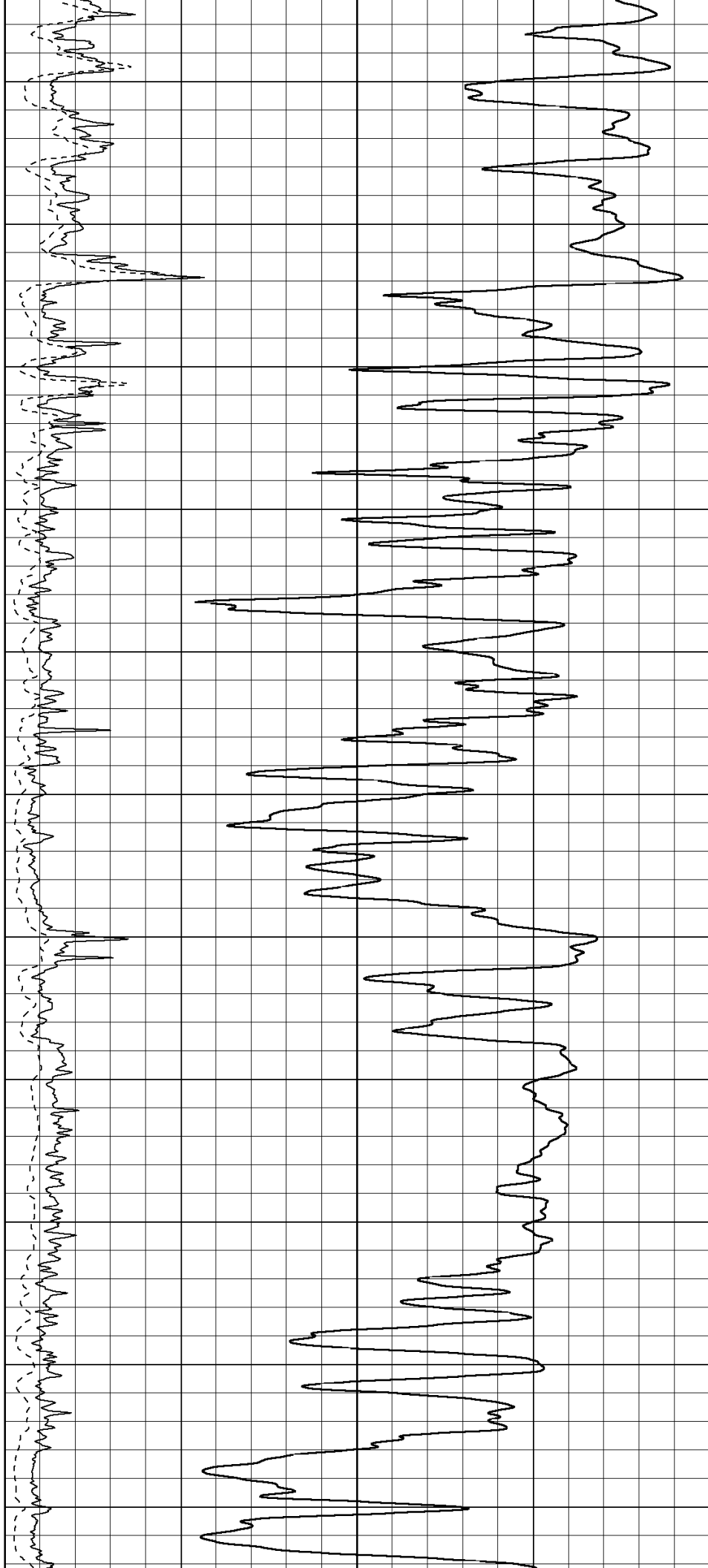
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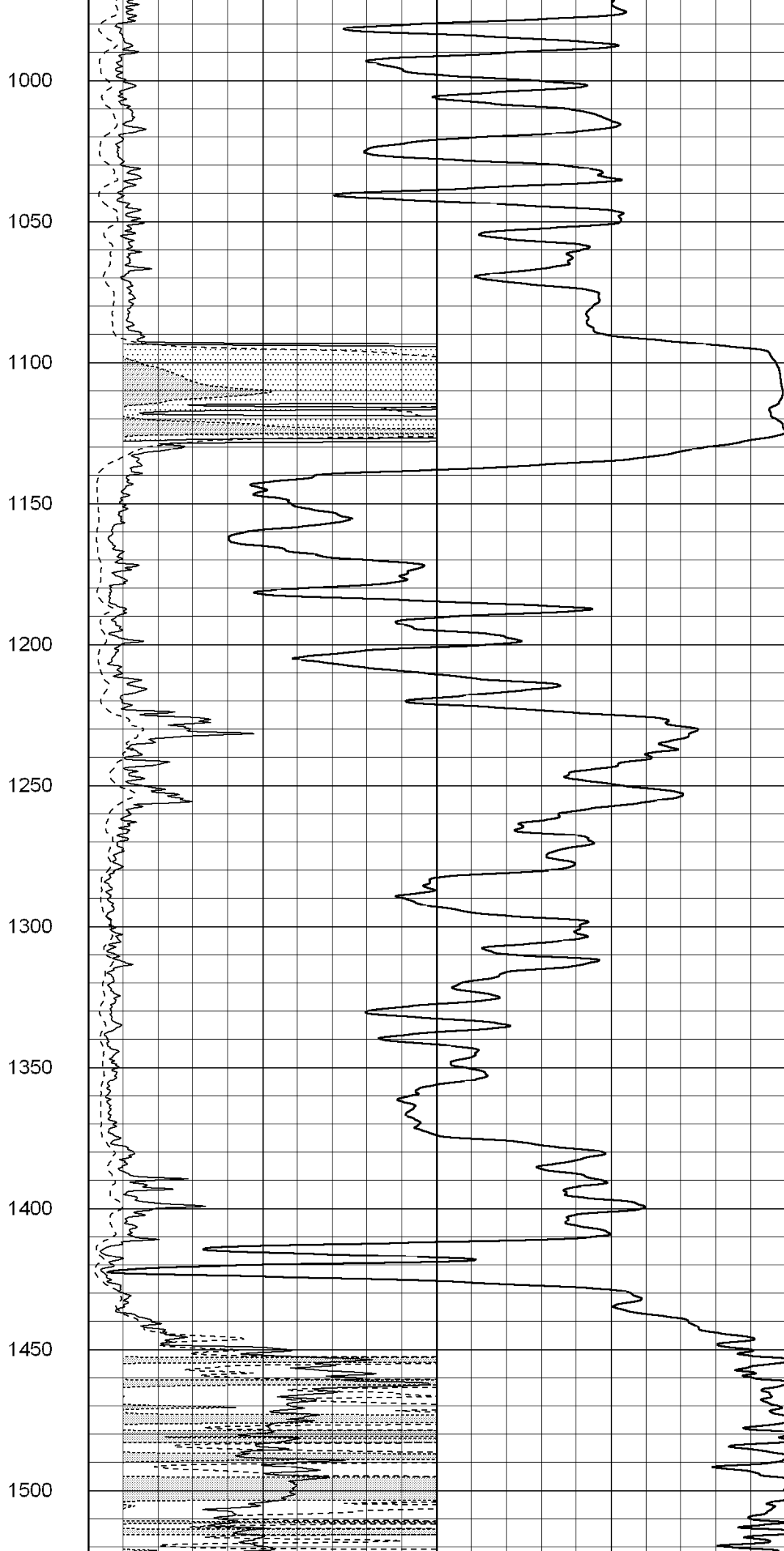
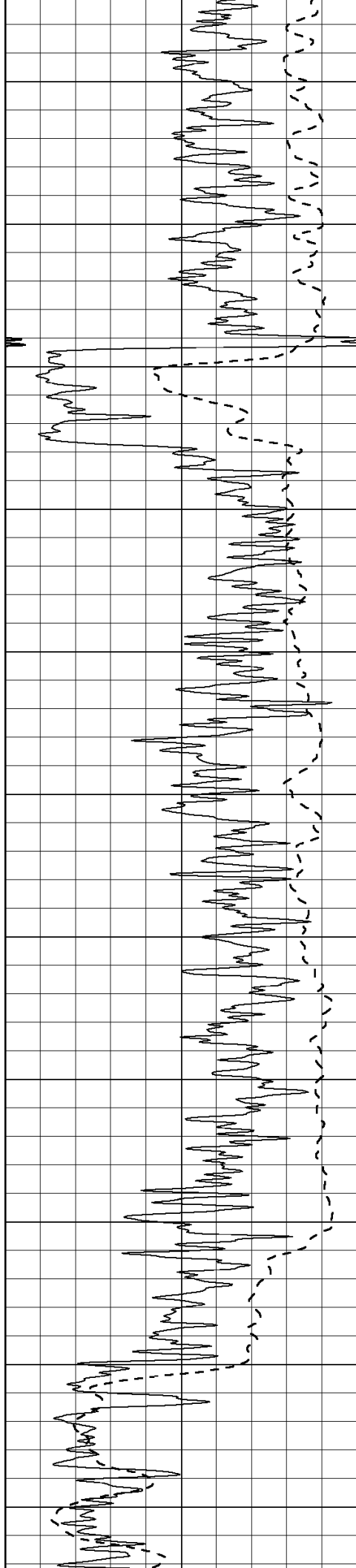
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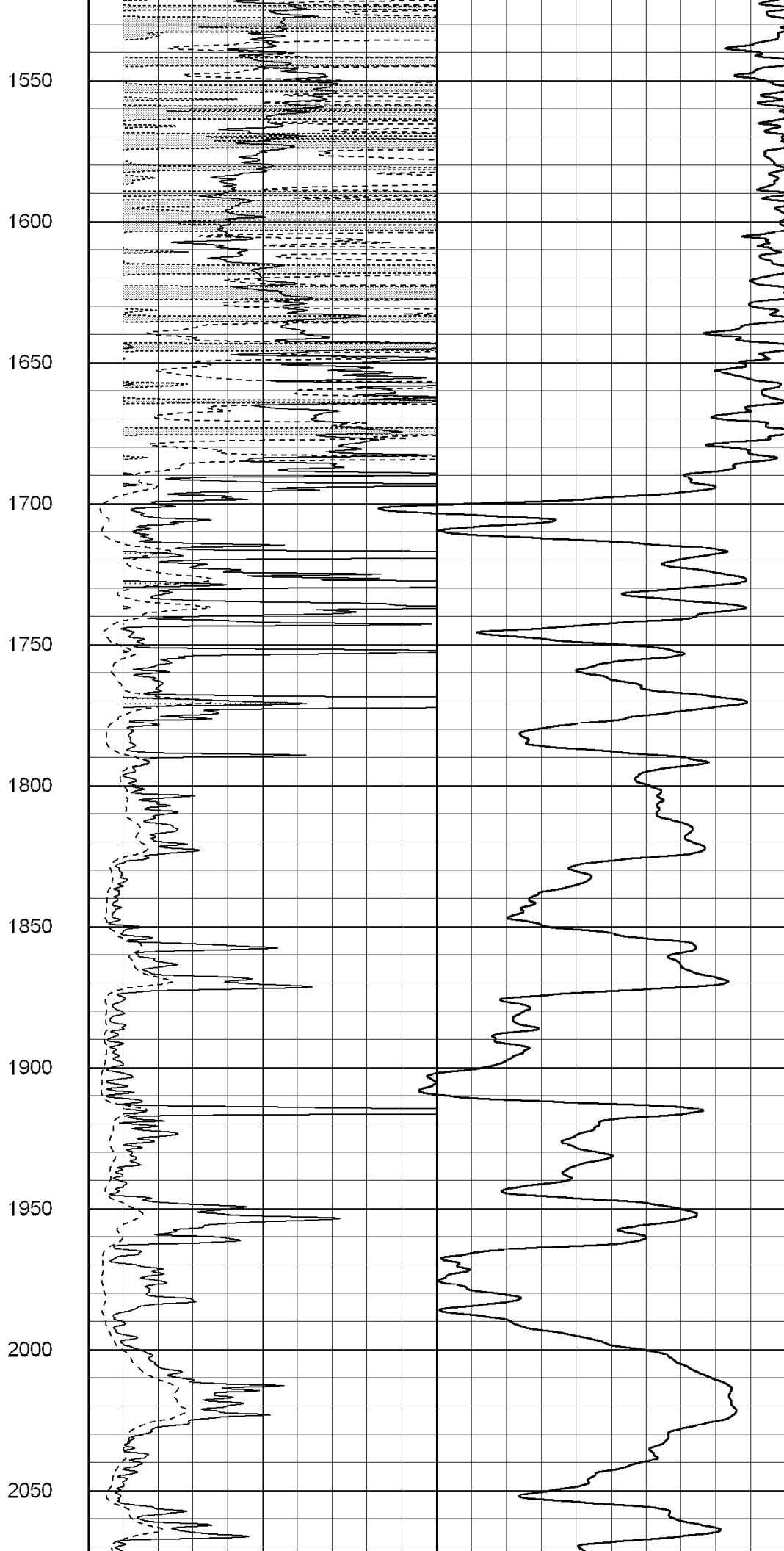
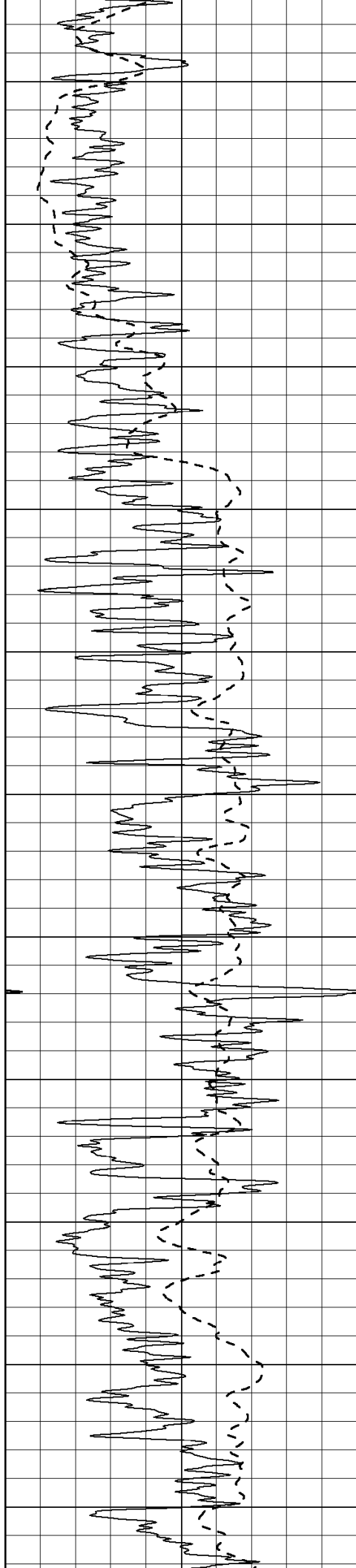
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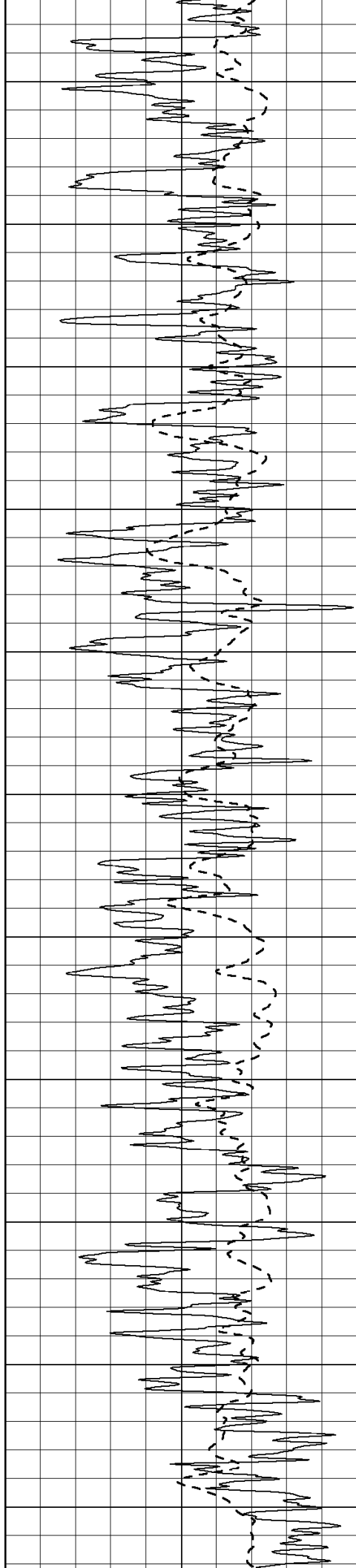
900

950









2100

2150

2200

2250

2300

2350

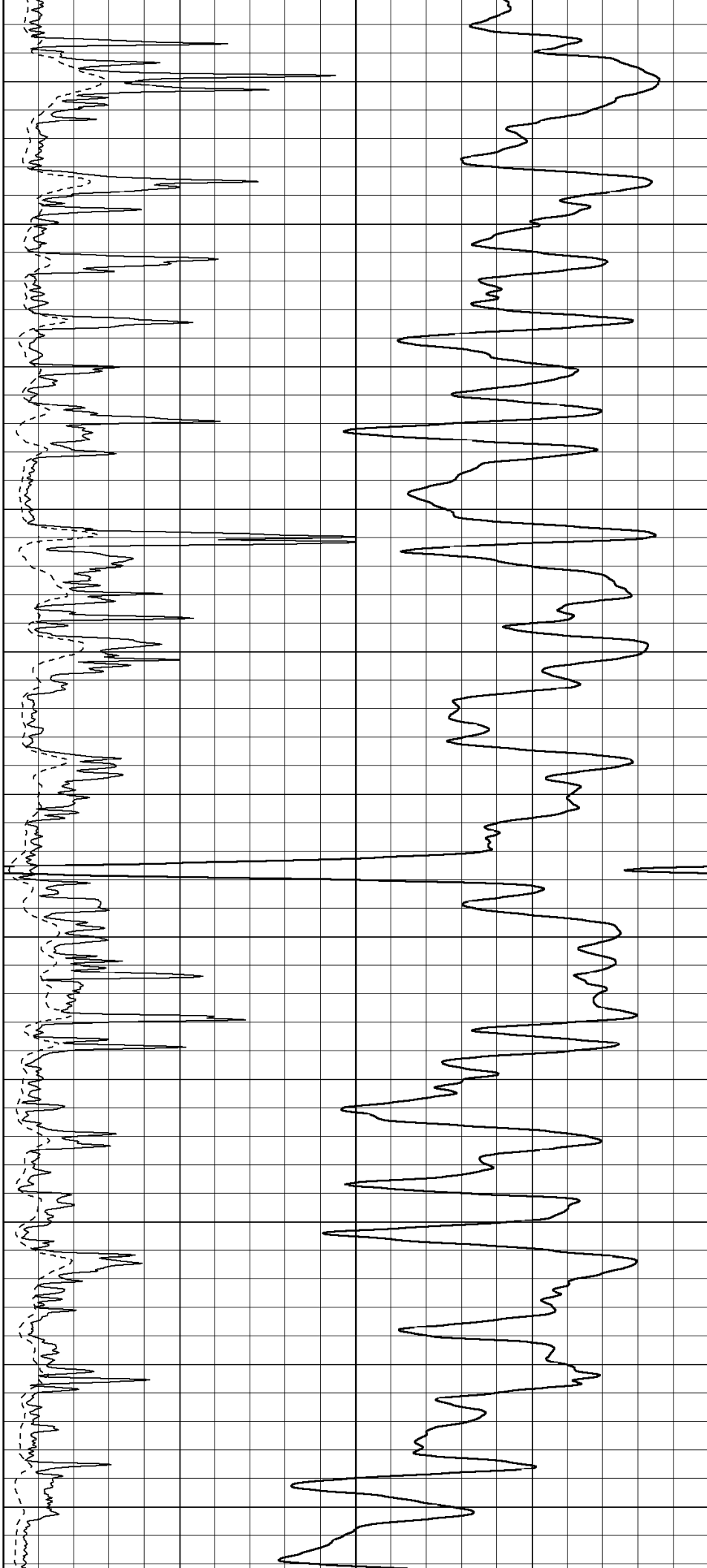
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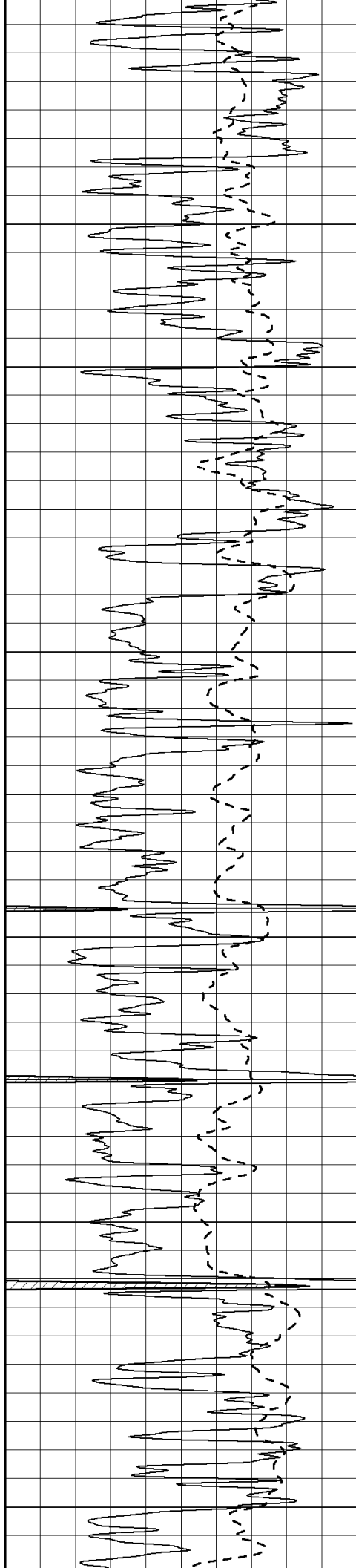
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

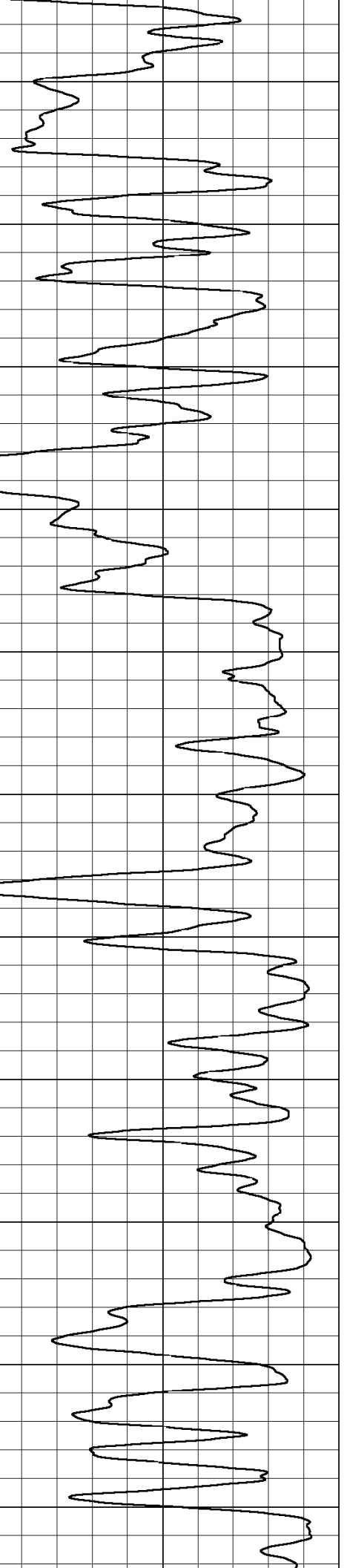
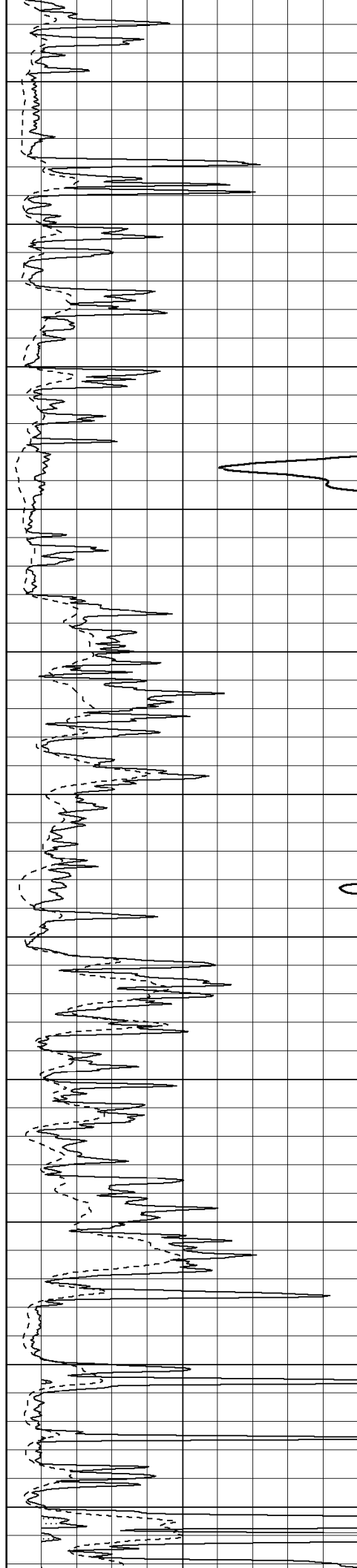
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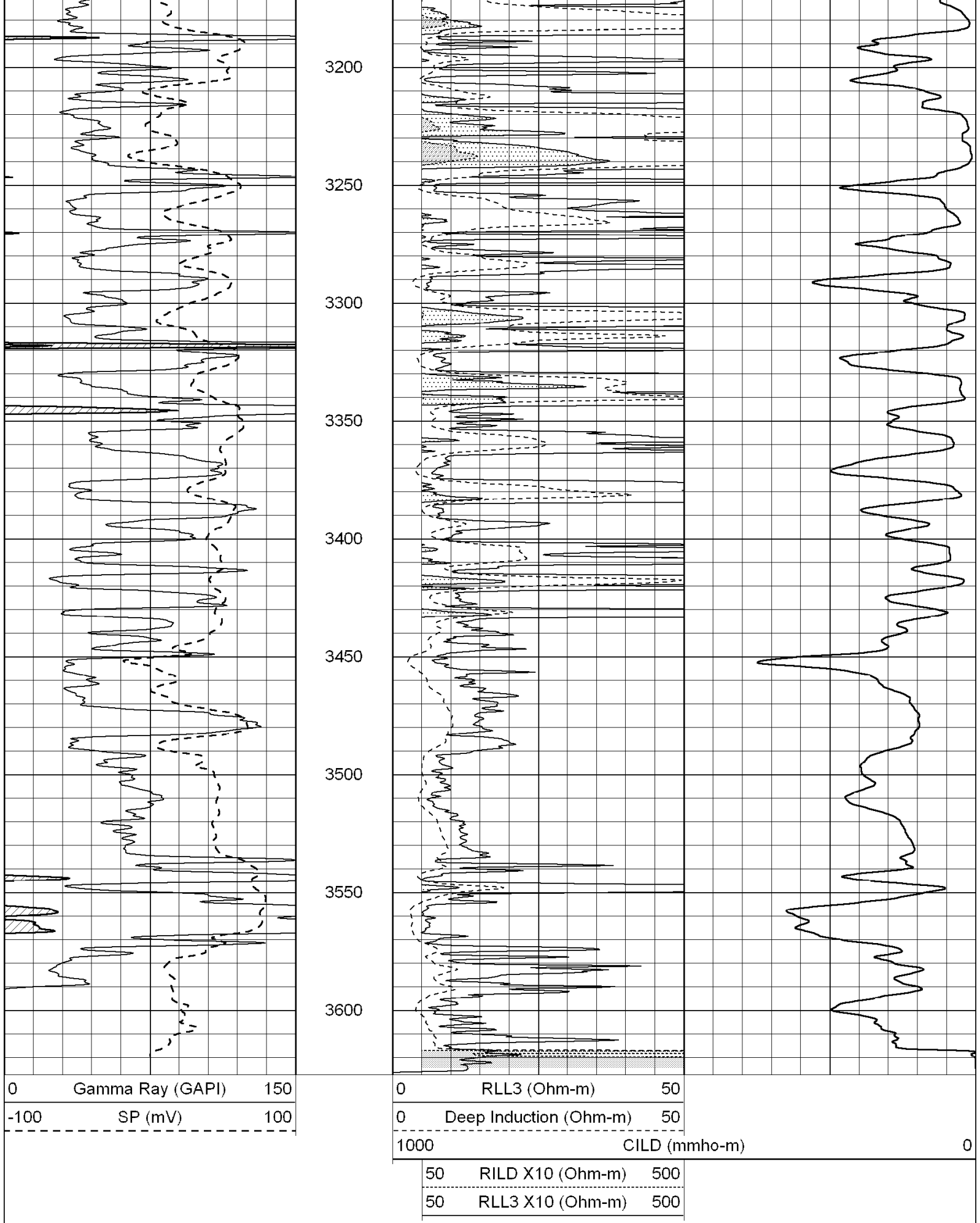
3000

3050

3100

3150







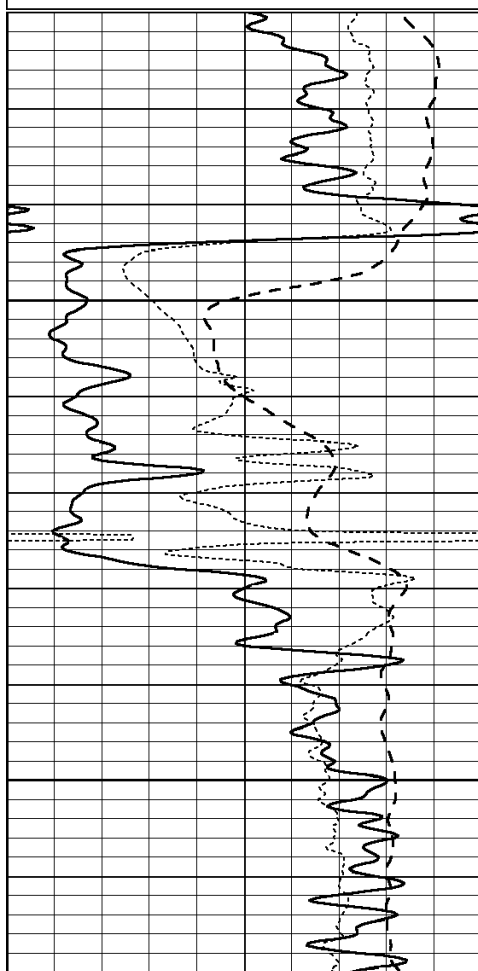
Hays,
Kansas

ANHYDRITE

Database File: 002499ddn.db
Dataset Pathname: pass8.5
Presentation Format: dil
Dataset Creation: Fri Oct 24 01:41:23 2008 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

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

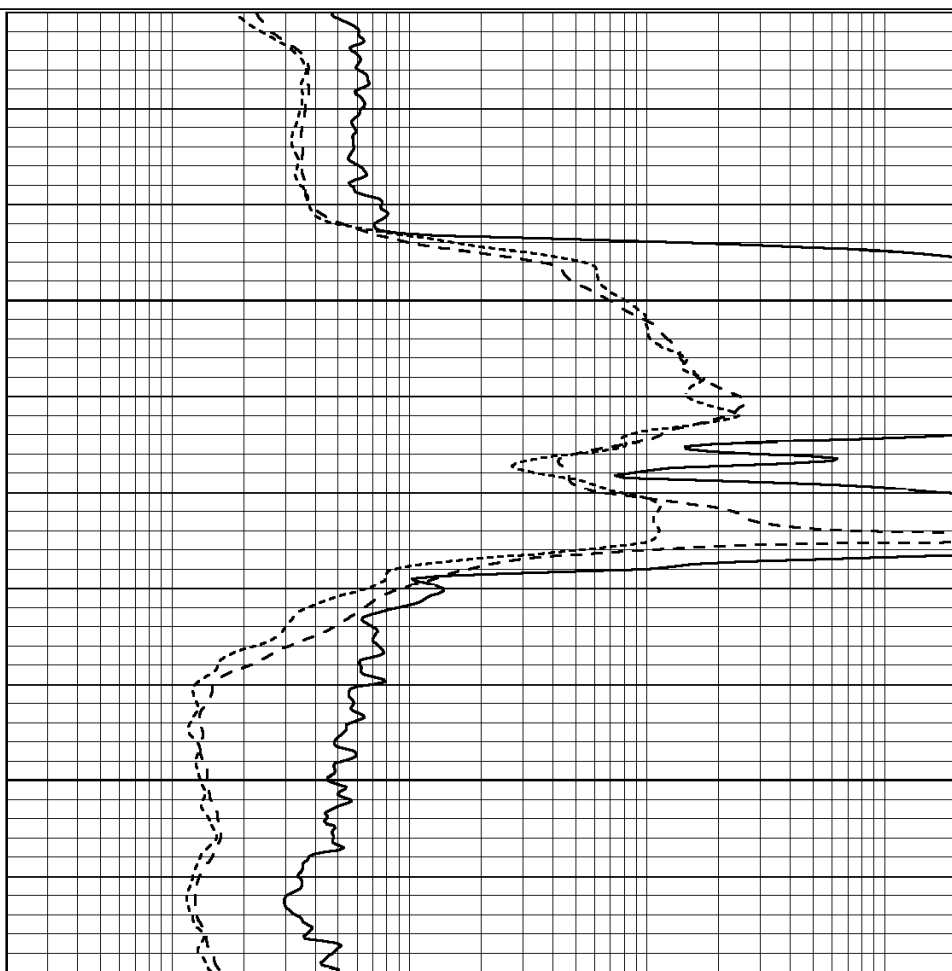
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



1100

1150

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



0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000



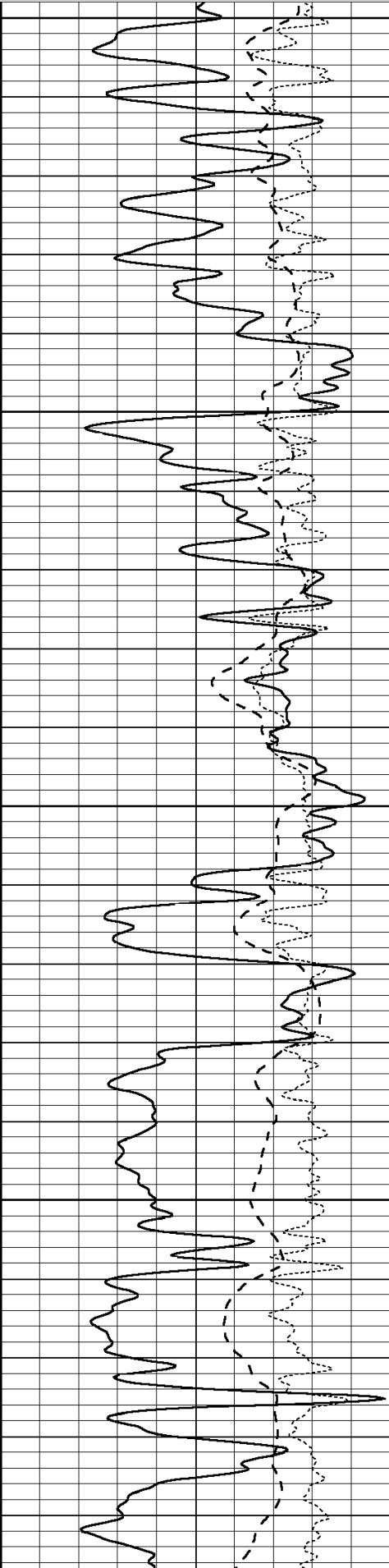
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File: 002499ddn.db
Dataset Pathname: pass8.4
Presentation Format: dil
Dataset Creation: Fri Oct 24 01:41:07 2008 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

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

0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

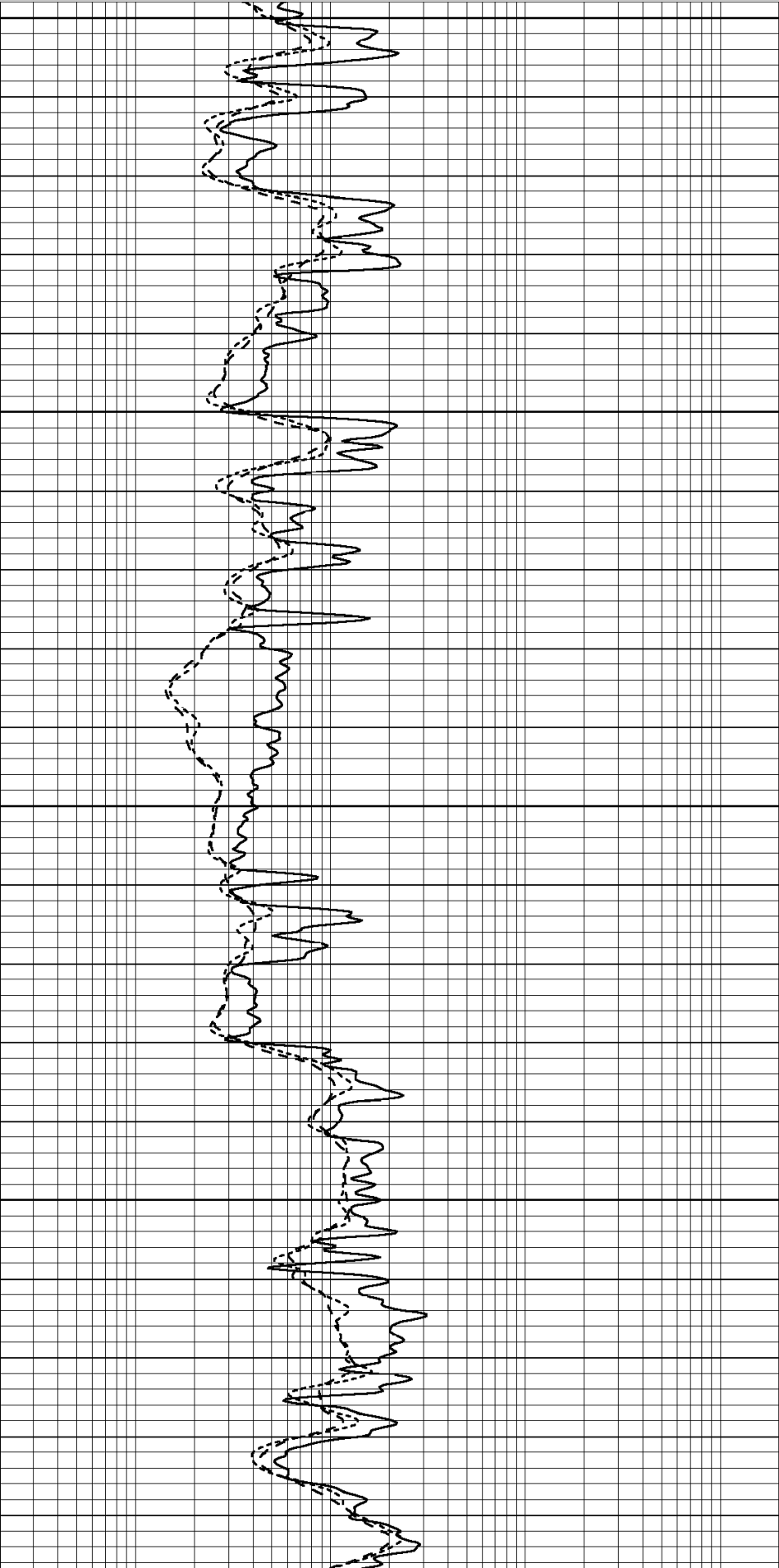


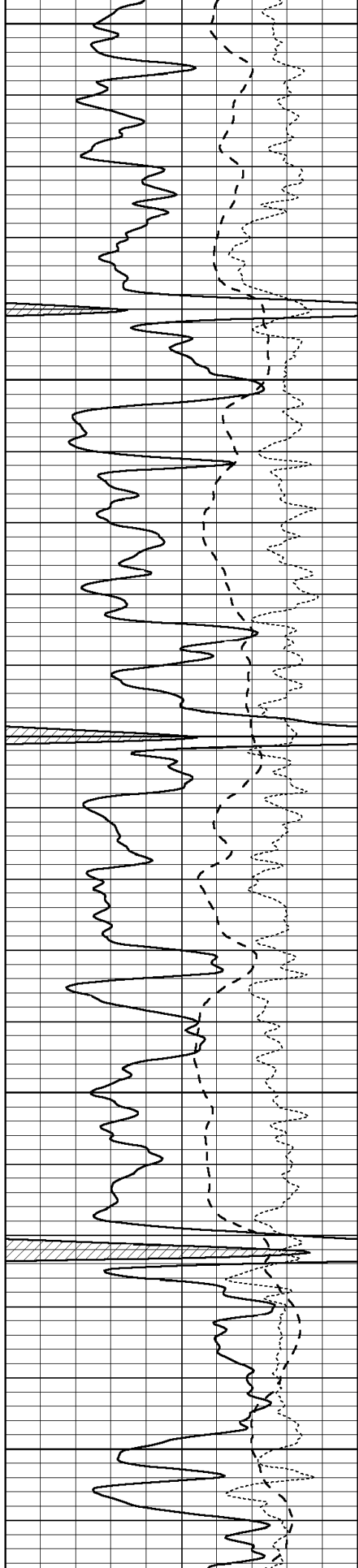
2700

2750

2800

2850





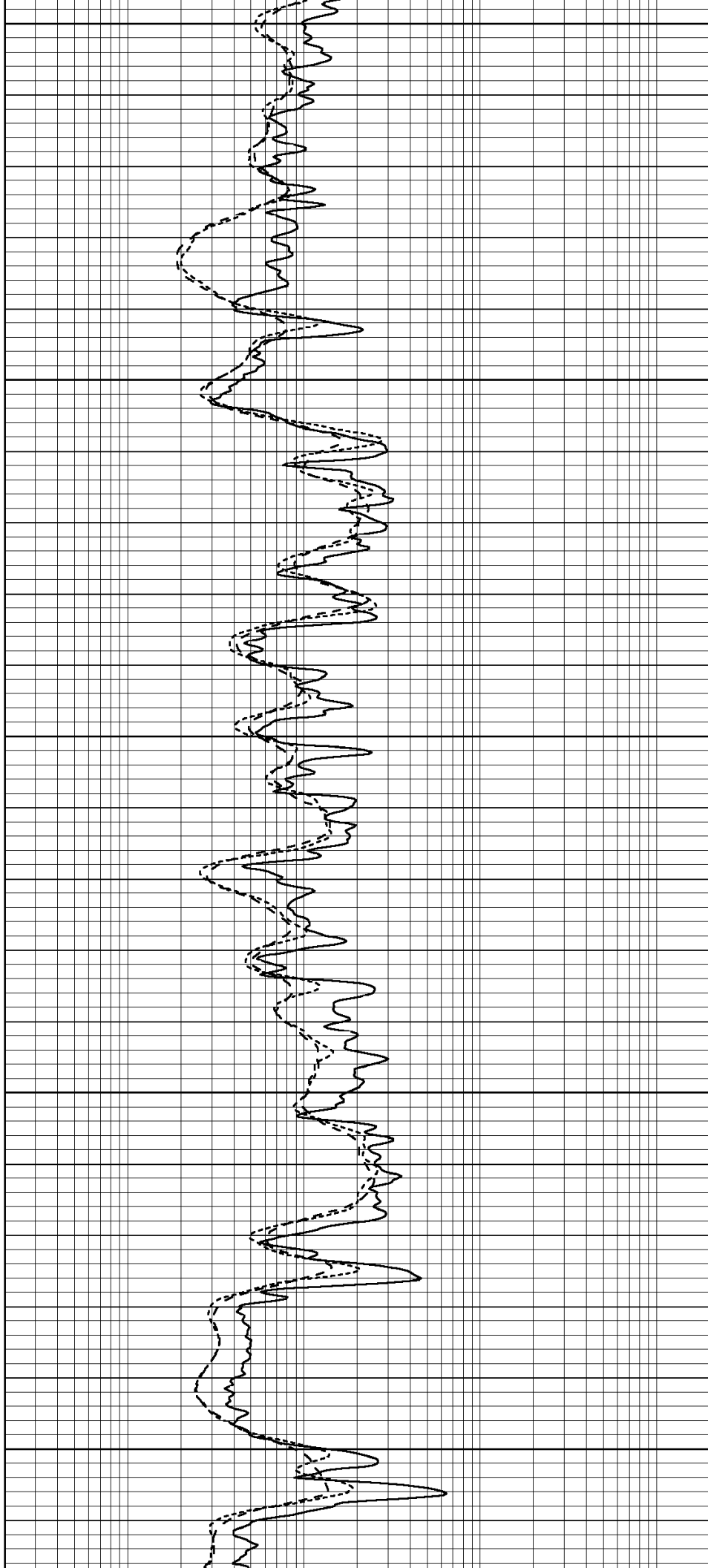
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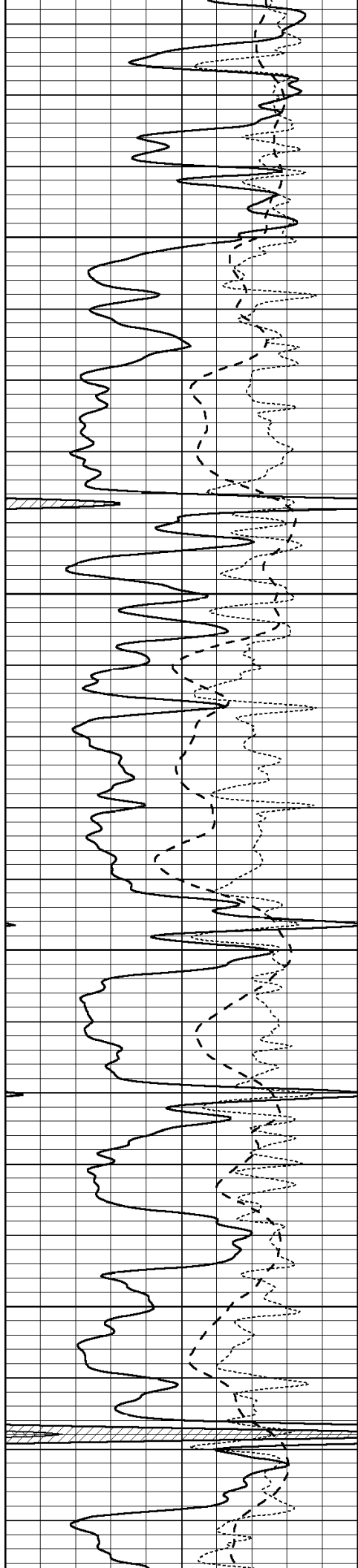
2950

3000

3050

3100



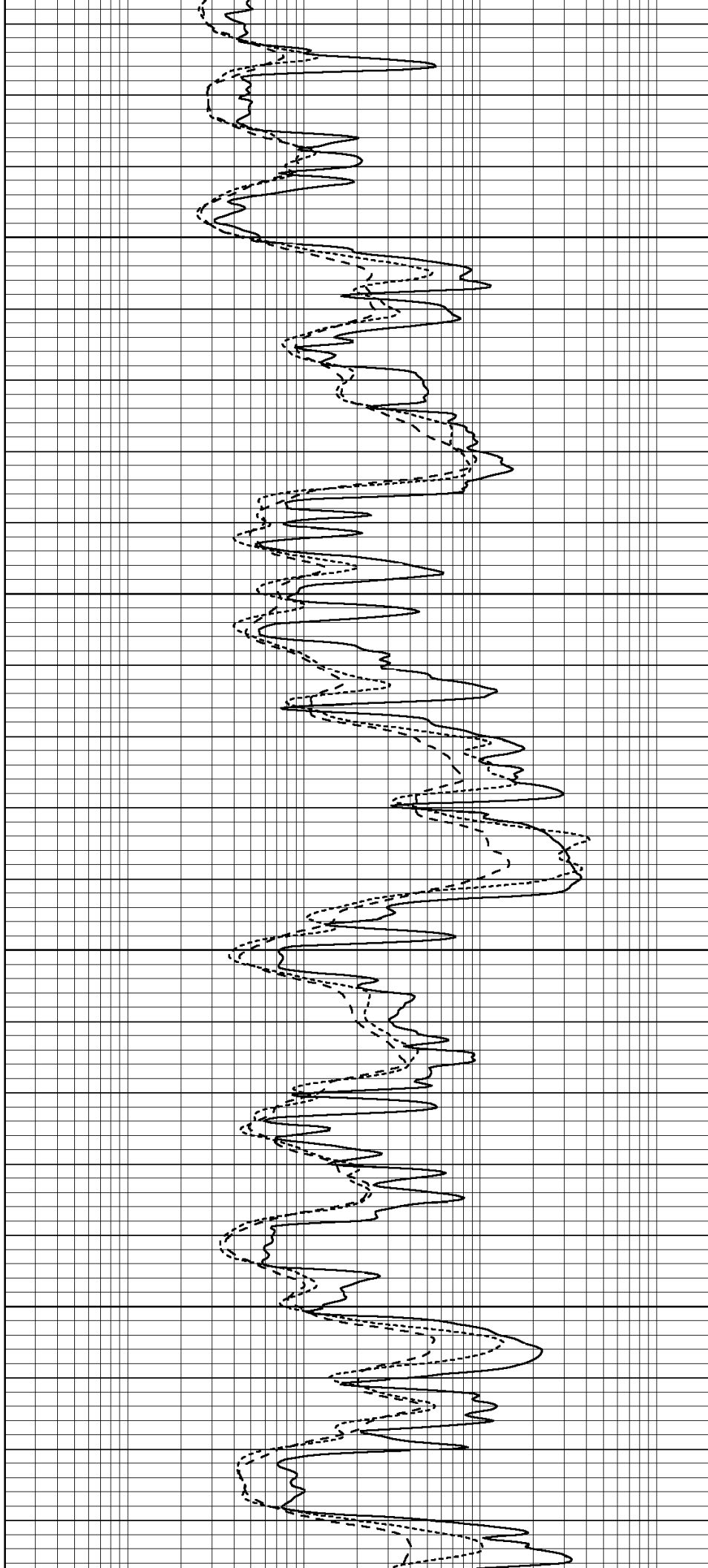


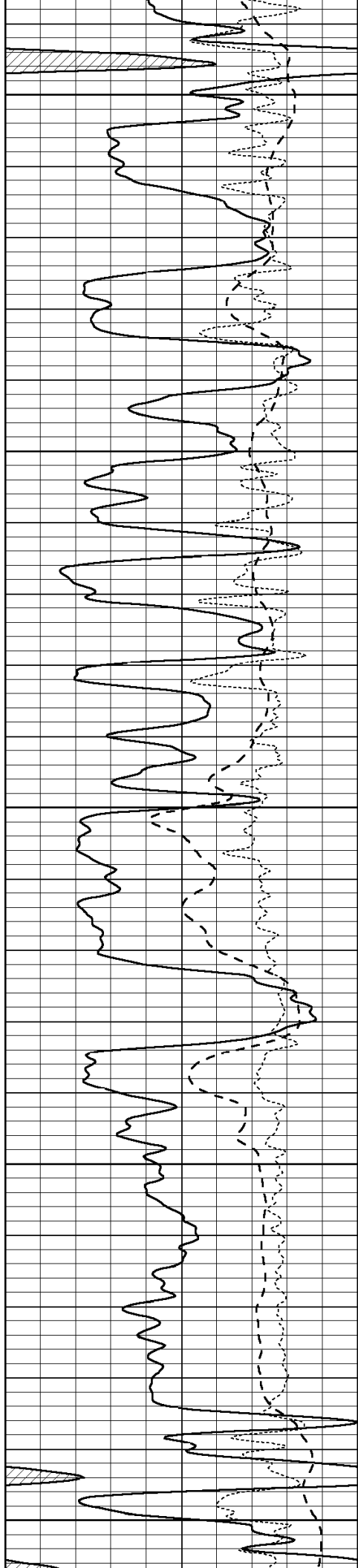
3150

3200

3250

3300





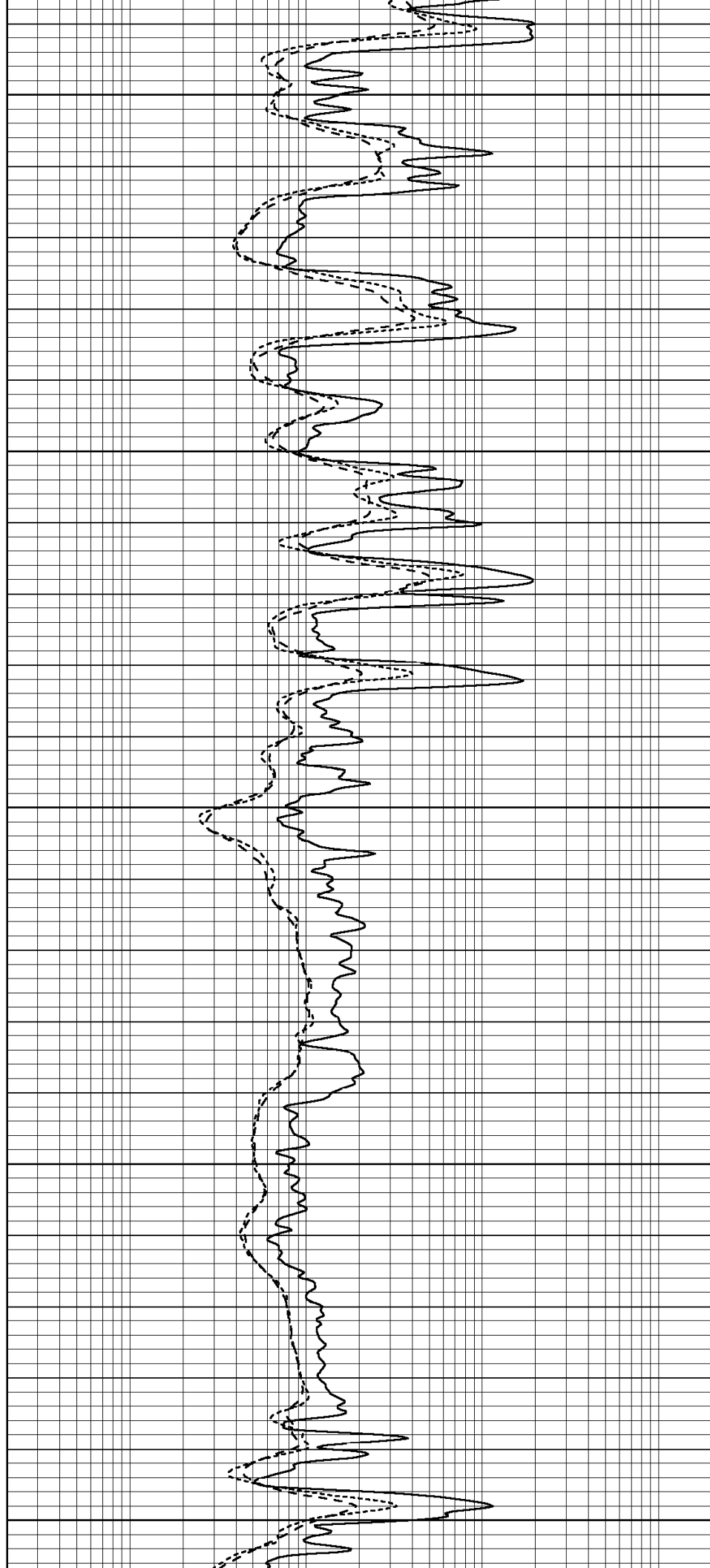
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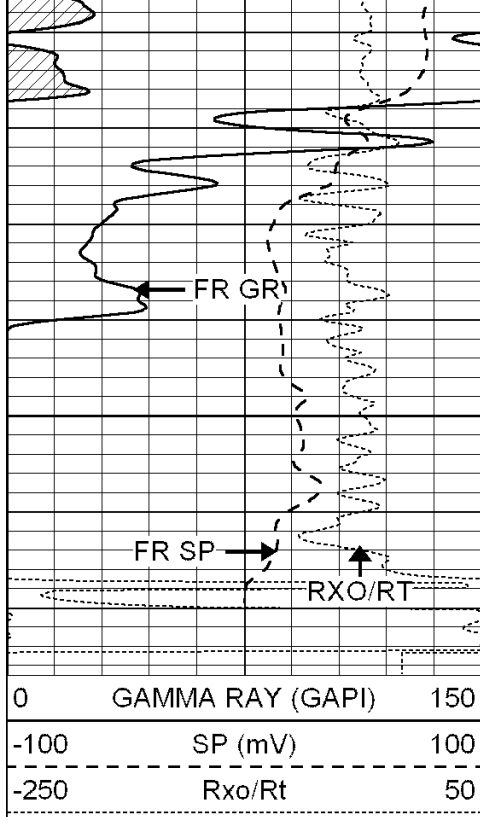
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3450

3500

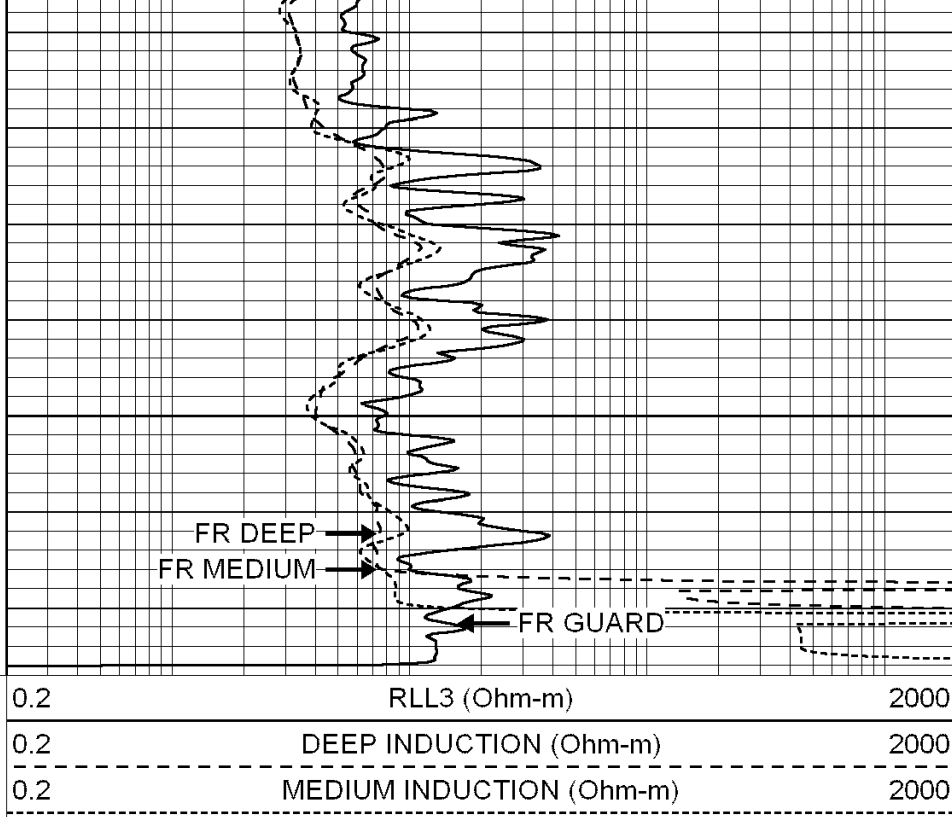
3550





3600

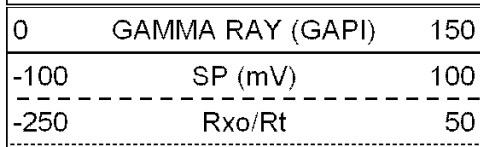
LTD 3624



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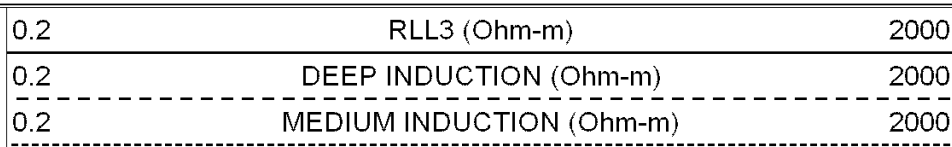
REPEAT SECTION

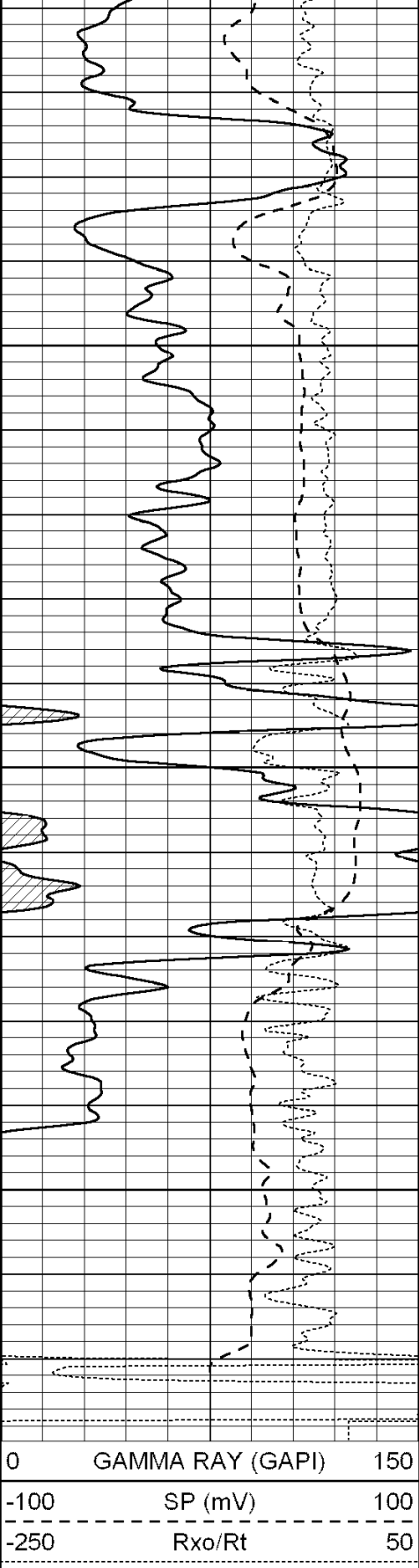
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 Charted by: Depth in Feet scaled 1:240



3400

3450

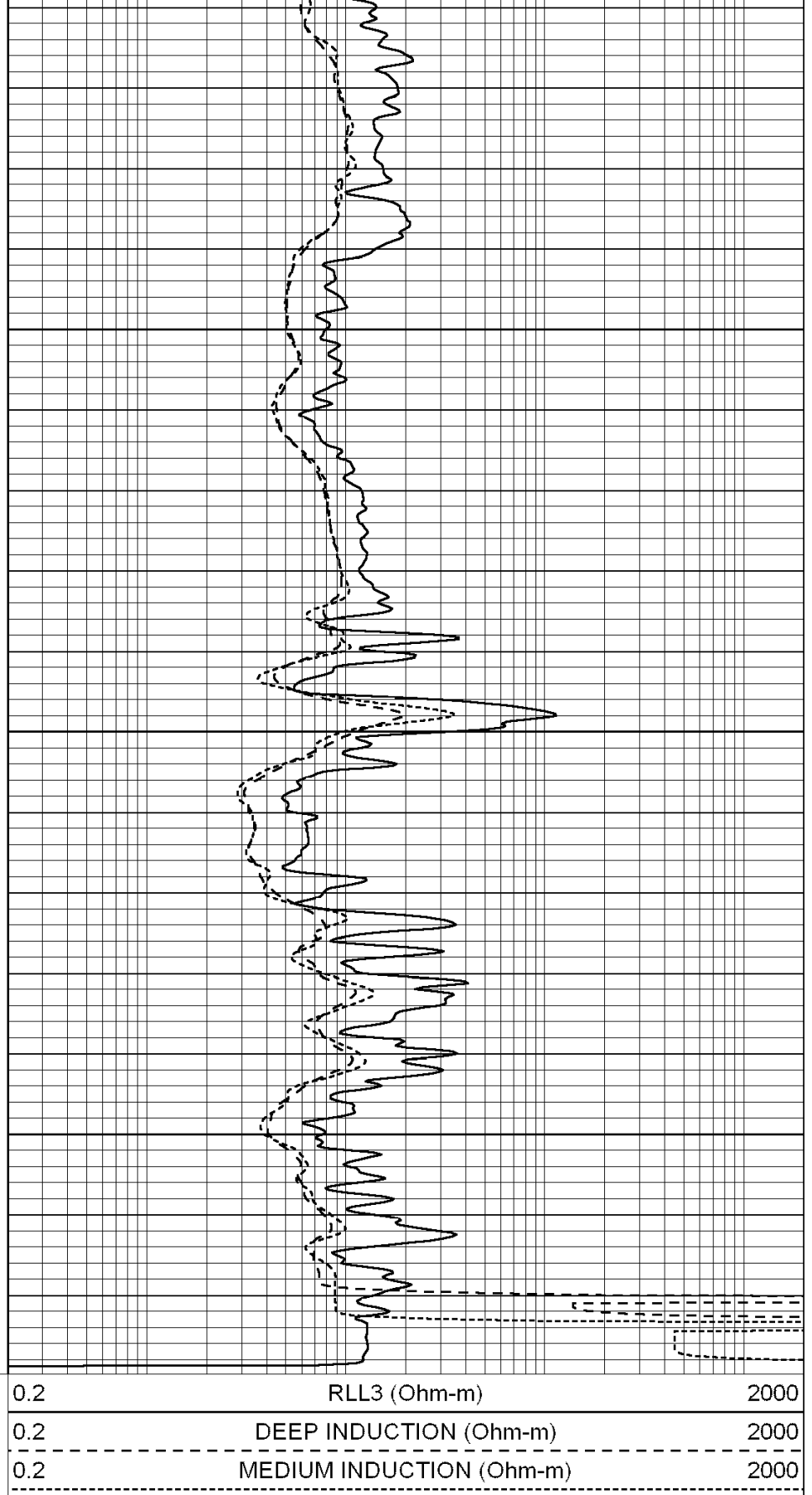




3500

3550

3600



Calibration Report

Database File: 002499ddn.db
Dataset Pathname: pass8.4
Dataset Creation: Fri Oct 24 01:41:07 2008 by Calc Open-Cased 060407

Dual Induction Calibration Report

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.014	0.656	V	0.000	400.000	mmho-m	525.000	-6.000
Medium	-0.001	0.753	V	0.000	464.000	mmho-m	575.000	-7.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.015	0.658	V	0.000	500.000	mmho-m	778.152	-11.717
Medium	0.014	0.750	V	0.000	500.000	mmho-m	680.048	-9.713

Litho Density Calibration Report

Serial: 003 Model: PRB

Performed Sun May 27 14:00:47 2007

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2129.3	13425.5	4493.9	14622.8	cps
Window 2	1911.5	10435.8	3706.5	11076.3	cps
Window 3	1670.1	6774.1	2736.9	7064.4	cps
Window 4	493.6	496.3	490.8	497.3	cps
Long Space	0.0	8524.3	1795.1	9164.8	cps
Short Space	2.1	3478.4	2258.5	3656.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.5	Rib Slope	: 0.983	Density/Spine Ratio	: 0.544
Spine Angle	: 74.5	Spine Slope	: 3.607	Spine Intercept	: -20.4

Caliper		
Low Ref	Readings 2.2	Reference 6.5
High Ref	4.5	15.5
	Gain: 3.8	Offset: -1.7

Compensated Neutron Calibration Report

Serial Number:	NEU_3I
Tool Model:	G

CALIBRATION					
Detector		Readings		Target	Normalization
Short Space		997.00	cps	1000.00	cps 1.0000
Long Space		986.00	cps	1000.00	cps 1.0000

Gamma Ray Calibration Report

Serial Number:	GR3	
Tool Model:	OPEN	
Performed:	Fri Oct 24 00:39:51 2008	
Calibrator Value:	200.0	GAPI
Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps
Sensitivity:	0.8000	GAPI/cps