



COWLEY
KANSAS

Other Services CDL/CNL MEL	Elevation
	K.B. 1302
	D.F. 1300
	G.L. 1292

Elevation
K.B. 1302
D.F. 1300
G.L. 1292

Date	3/24/12
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[illegible]

Depth Logger	3600
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Top Log Interval	0
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Leasing Driver	8 5/8 @ 2
	31.41

3 1/2" Bit Size	7 7/8"
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Density / Viscosity	9.4/50
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OH/Fluid Loss	9.5/7.4
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Rm @ Meas. Temp	2.20@74
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1.65@/4	2.64@/4
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Source of Rmf / Rmc	MEASUREMENT
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Time Circulation Stopped	2 H01B
Time Circulation Stopped	1.75 @ 11

Time Logger on Bottom

Equipment Number	4010
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Location	HAYS, KAN
State of Doc	IEEE CPDNI

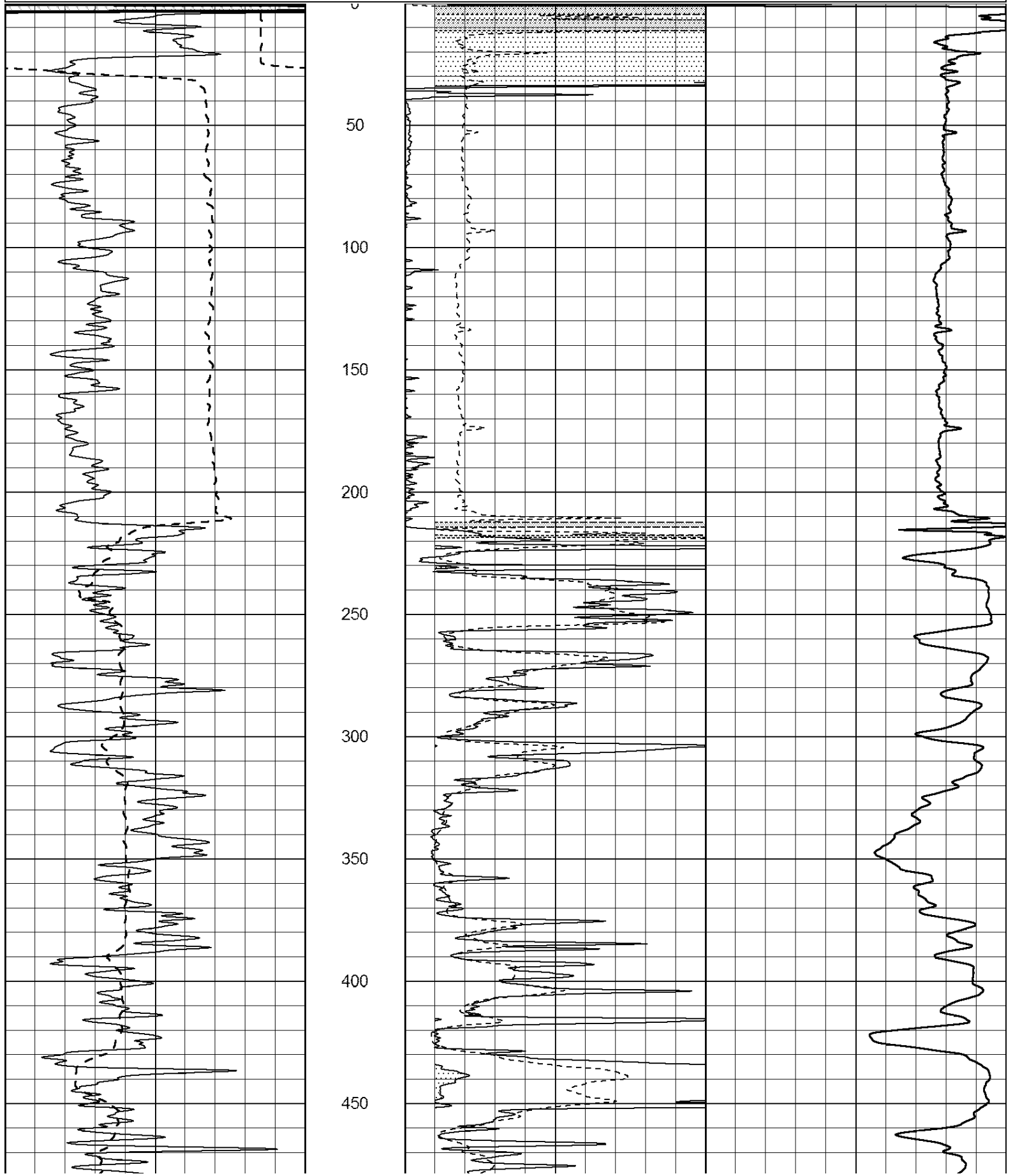
Witnessed By	JOE BAKER
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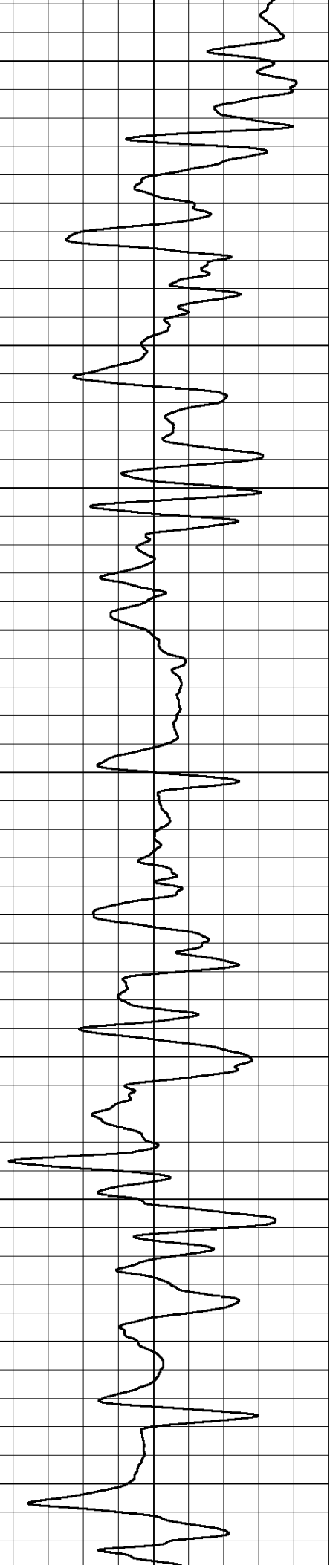
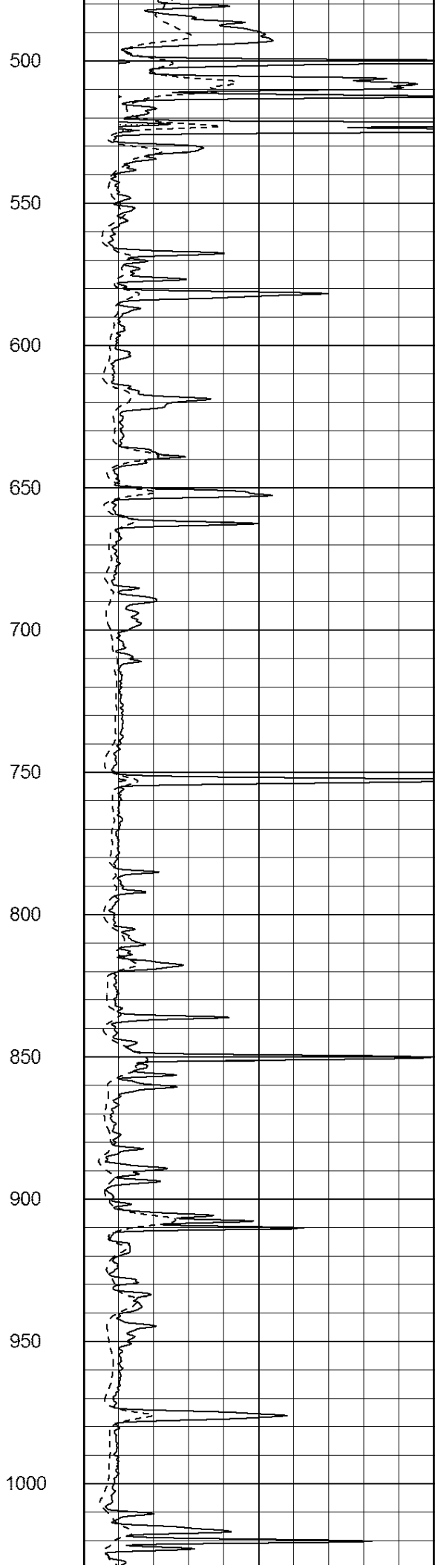
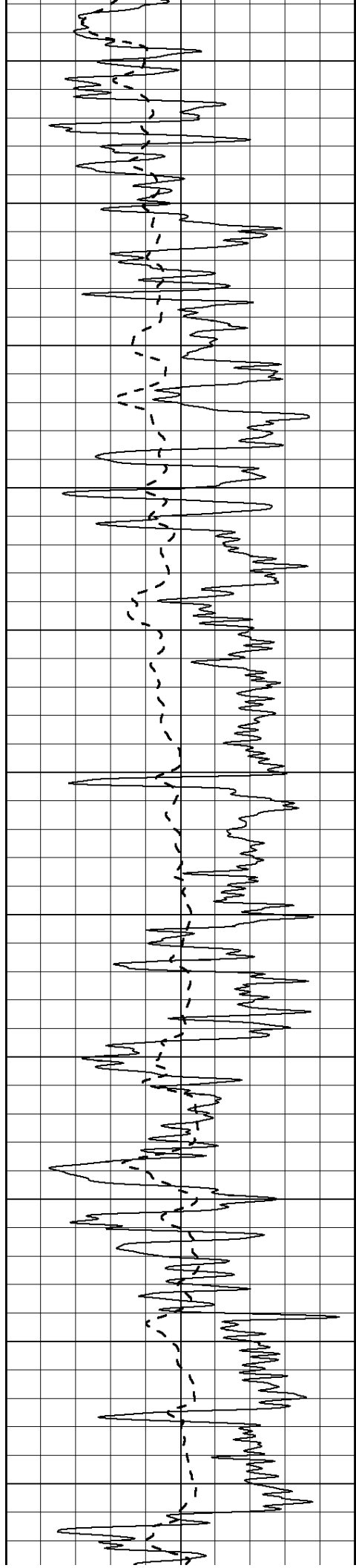
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

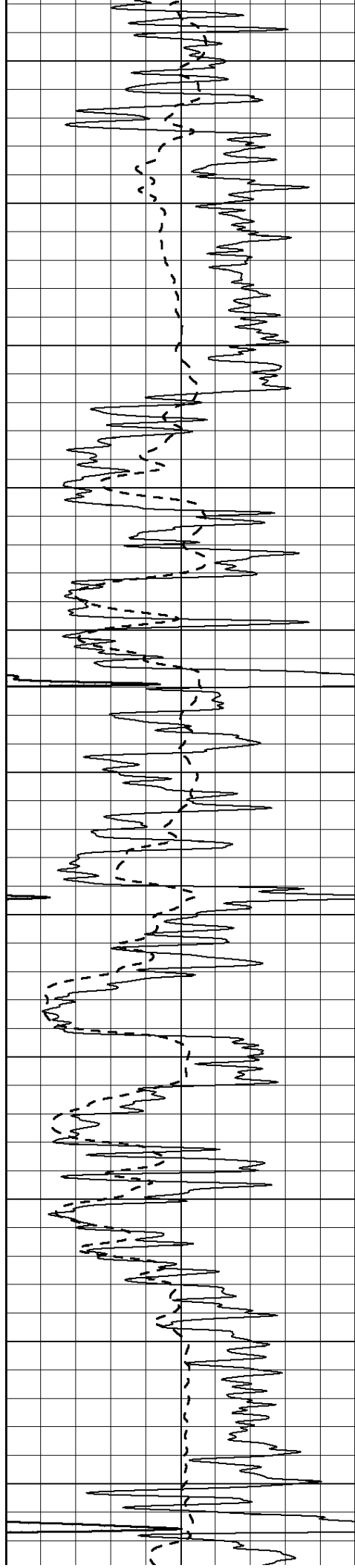
THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
WINFIELD, KS - EAST TO RD 181 - 1/4 MILE SOUTH
WEST INTO

Database File: 408611pe.db
Dataset Pathname: pass4.3
Presentation Format: _dii2
Dataset Creation: Sat Mar 24 01:55:55 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:600

Charted by: Depth in Feet scaled 1:600					
0	Gamma Ray (GAPI)	150	0	RLL3 (Ohm-m)	50
-100	SP (mV)	100	0	RILD (Ohm-m)	50
-----			-----		
			1000	CILD (mmho/m)	0
			50	RILD X10 (Ohm-m)	500
			50	RLL3 X10 (Ohm-m)	500







1050

1100

1150

1200

1250

1300

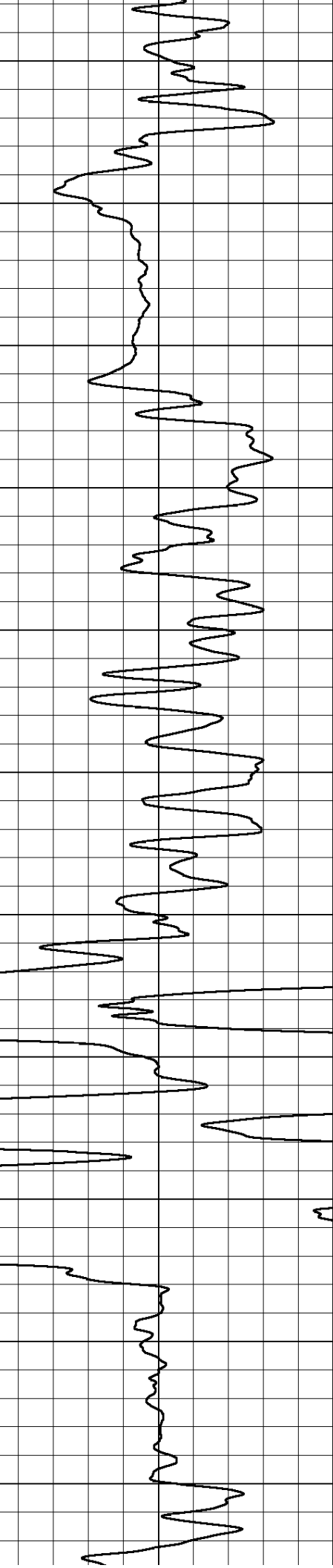
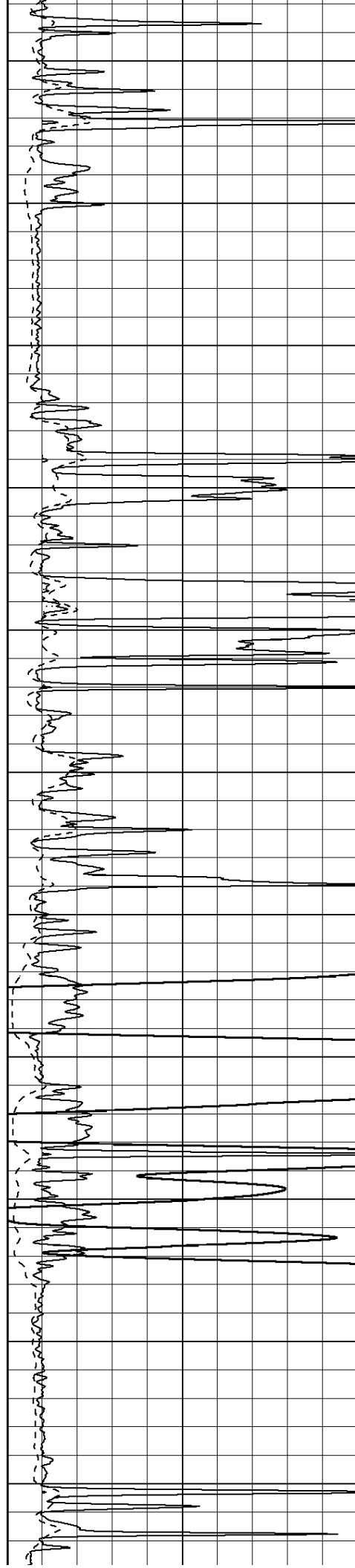
1350

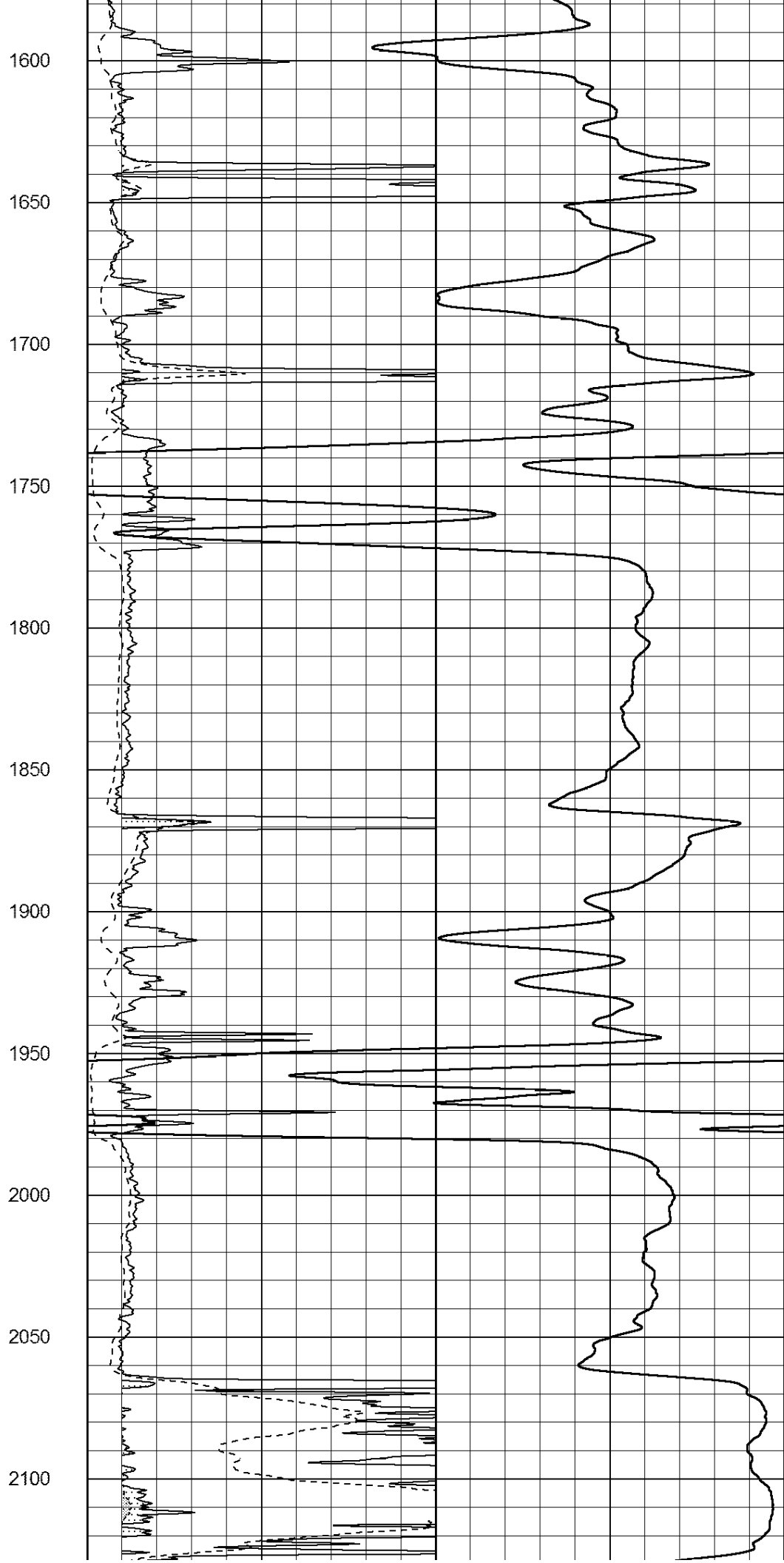
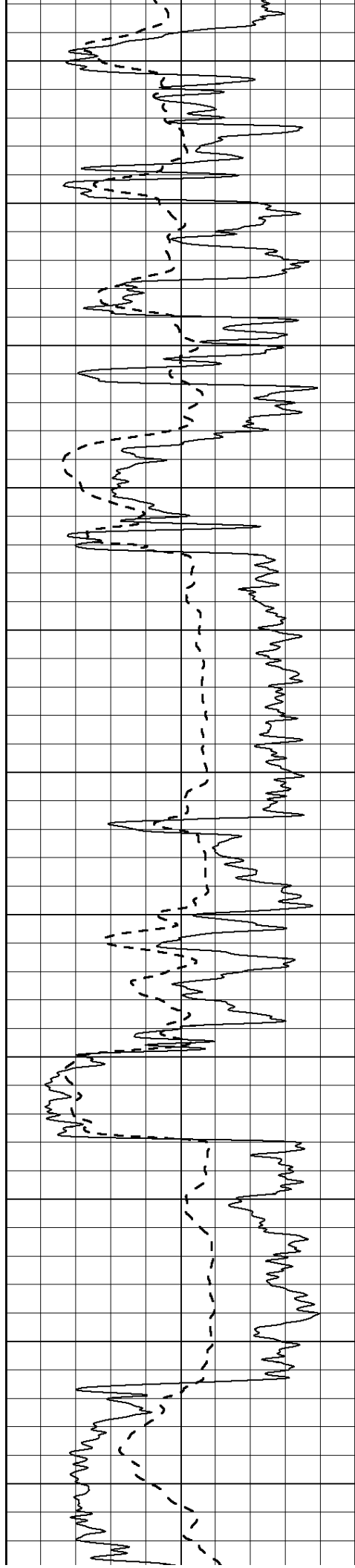
1400

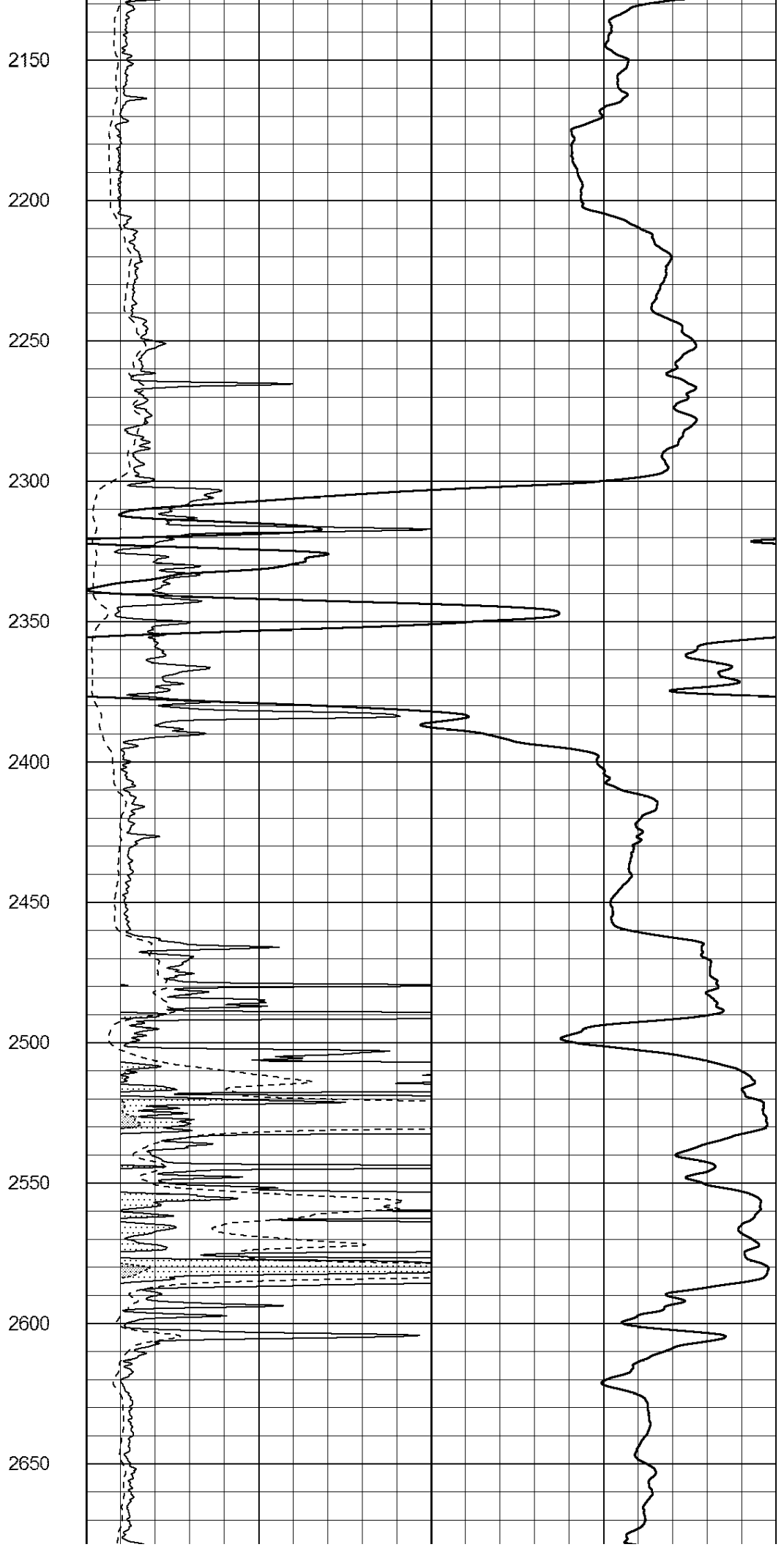
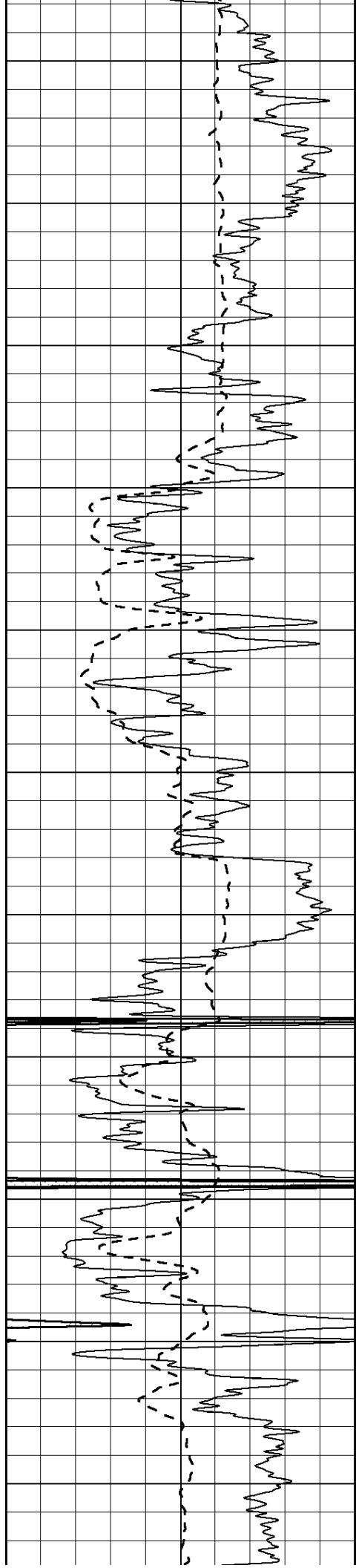
1450

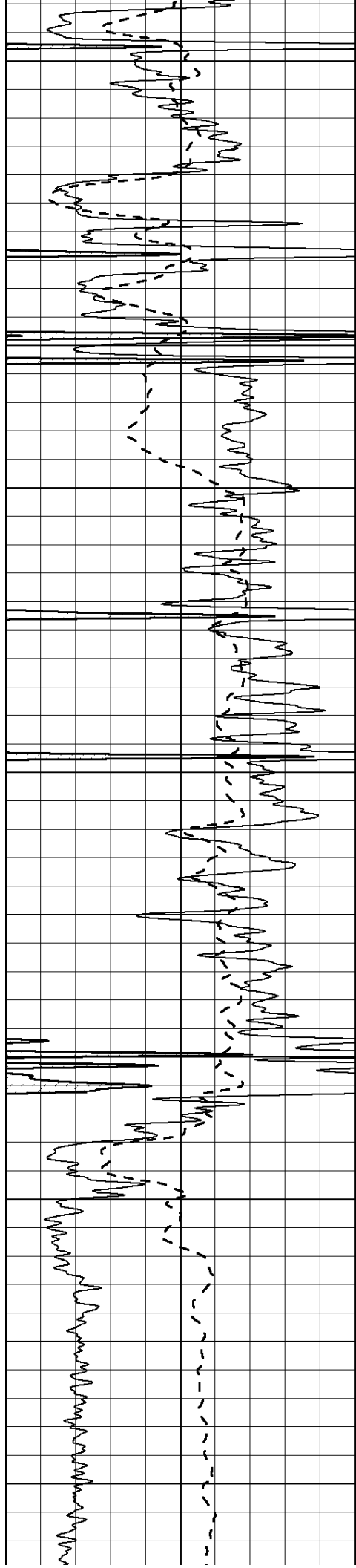
1500

1550









2700

2750

2800

2850

2900

2950

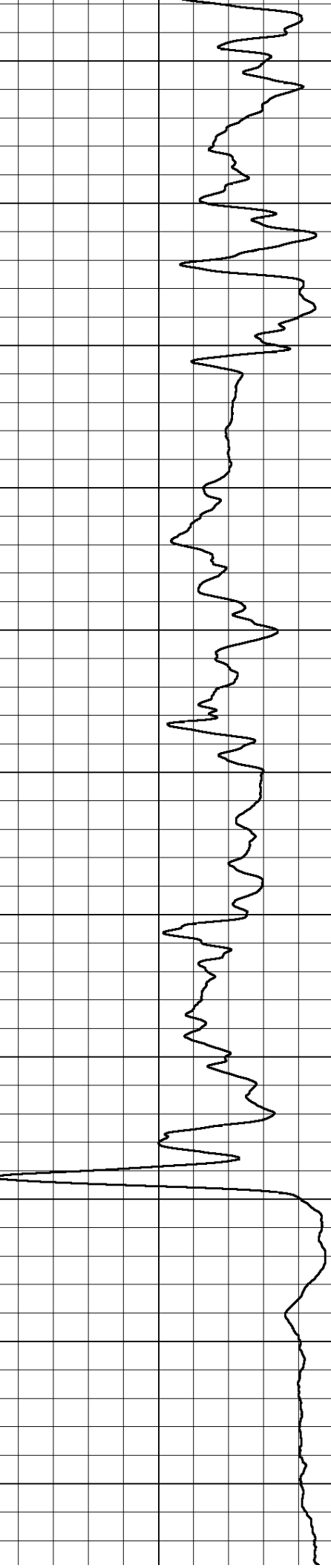
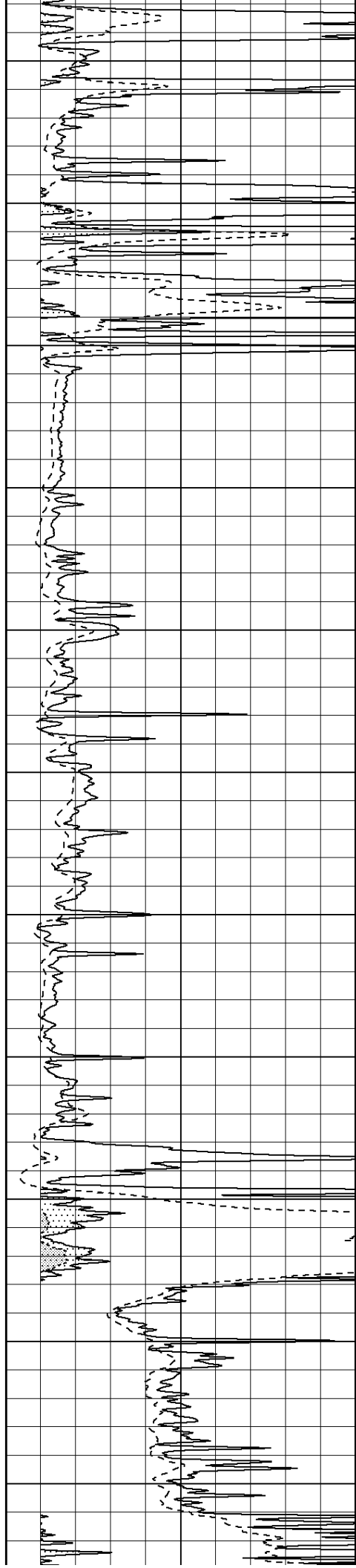
3000

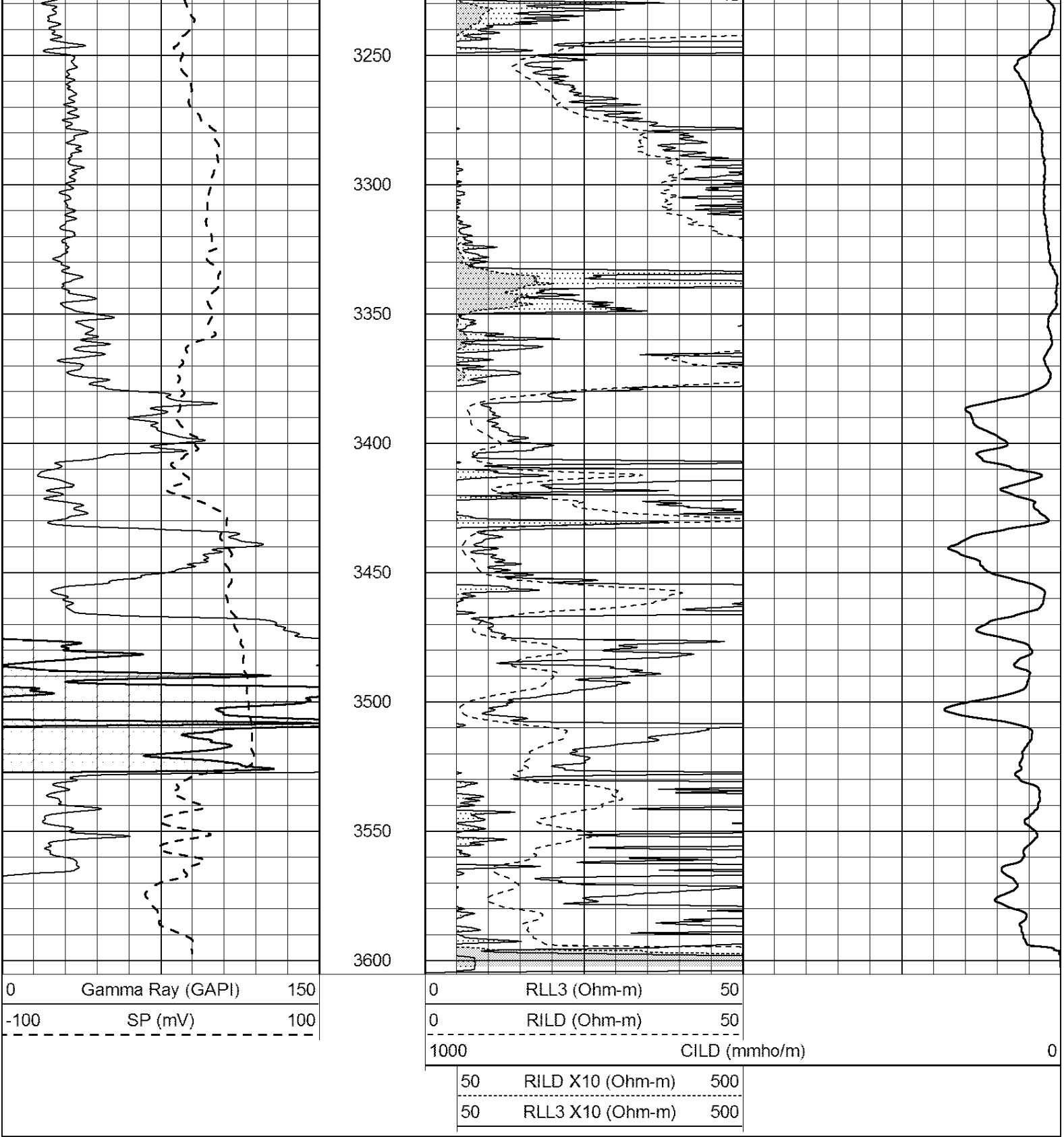
3050

3100

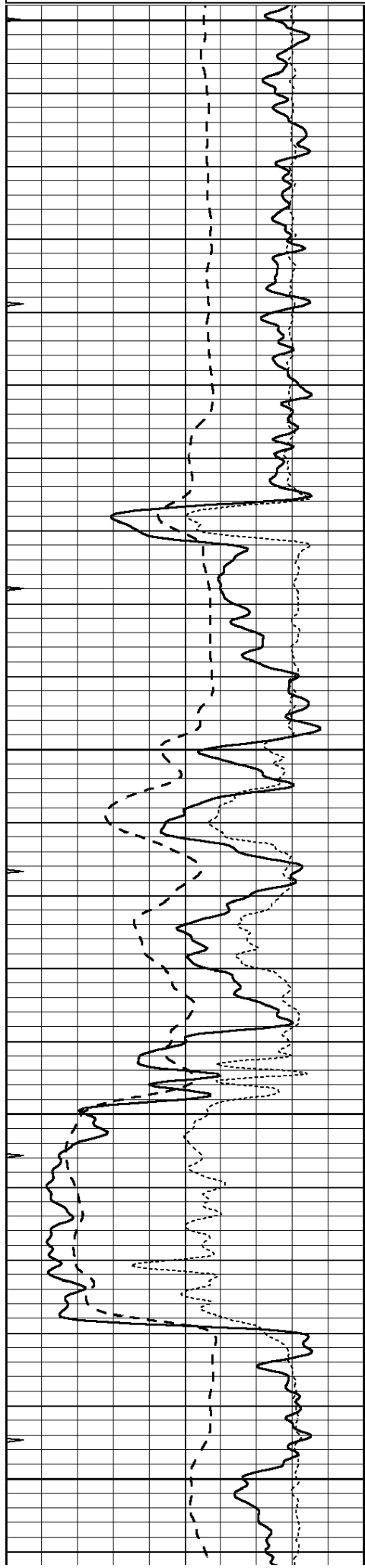
3150

3200





Database File: 408611pe.db					
Dataset Pathname: pass4.2					
Presentation Format: _dil					
Dataset Creation: Sat Mar 24 00:28:52 2012 by Calc Open-Cased 110302					
Charted by: Depth in Feet scaled 1:240					
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	20			



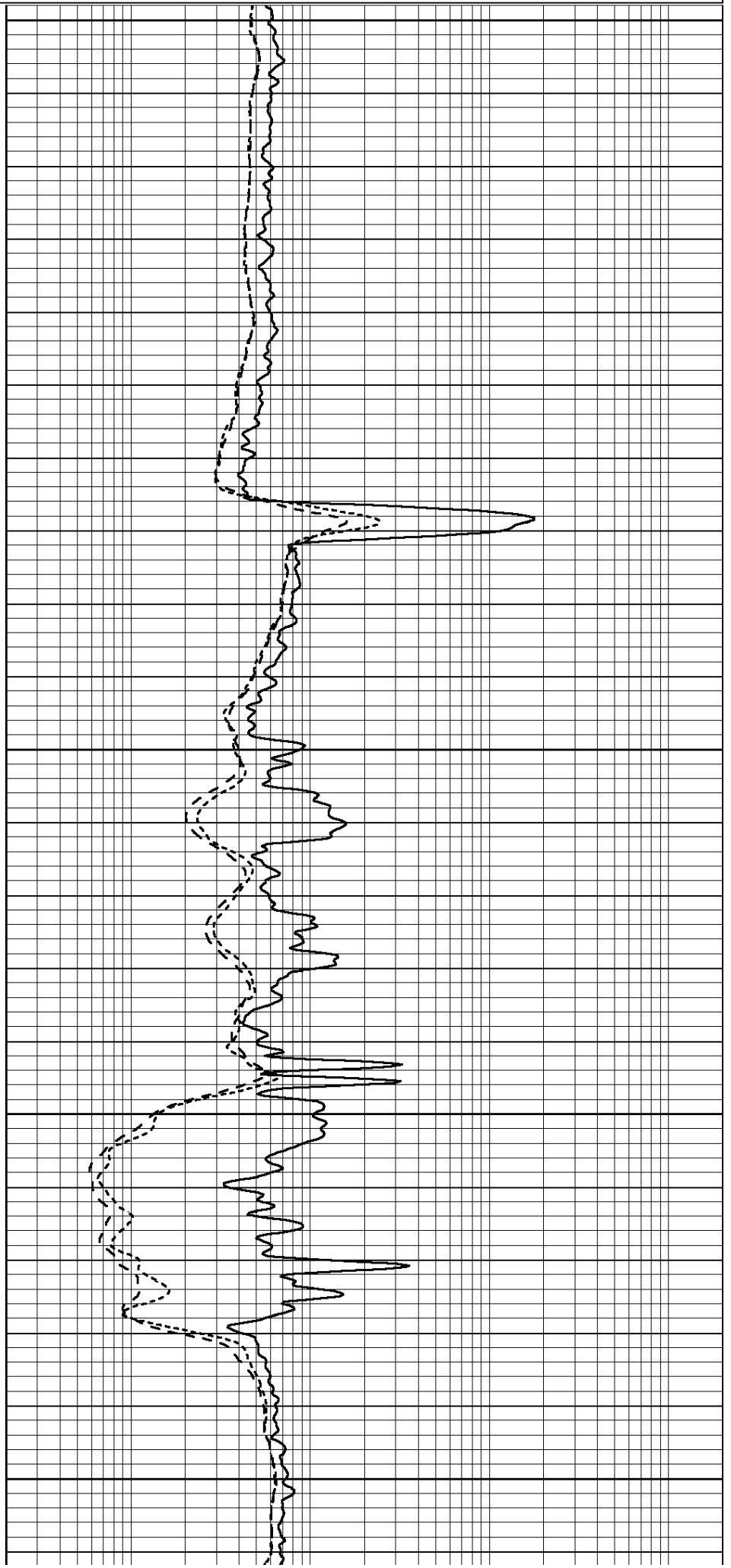
1800

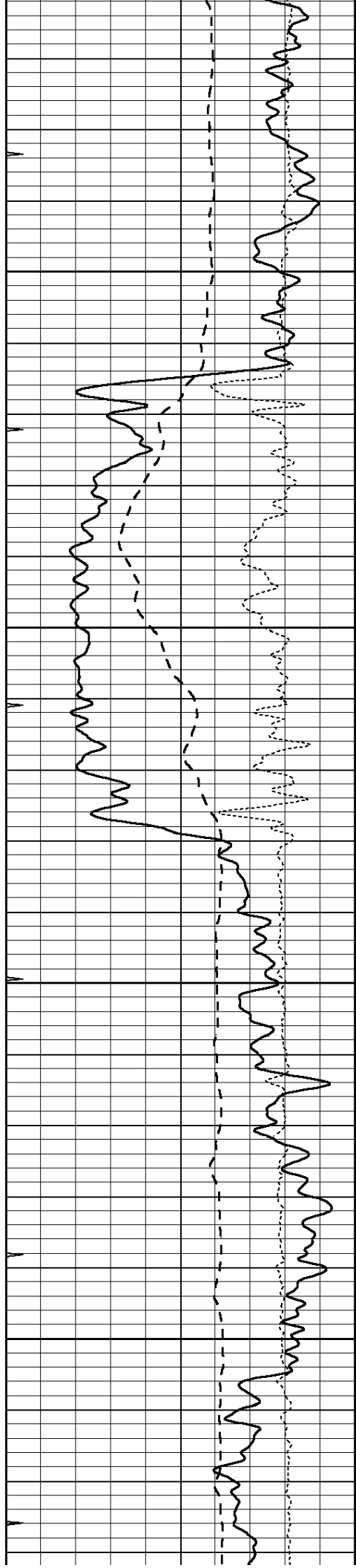
1850

1900

1950

2000



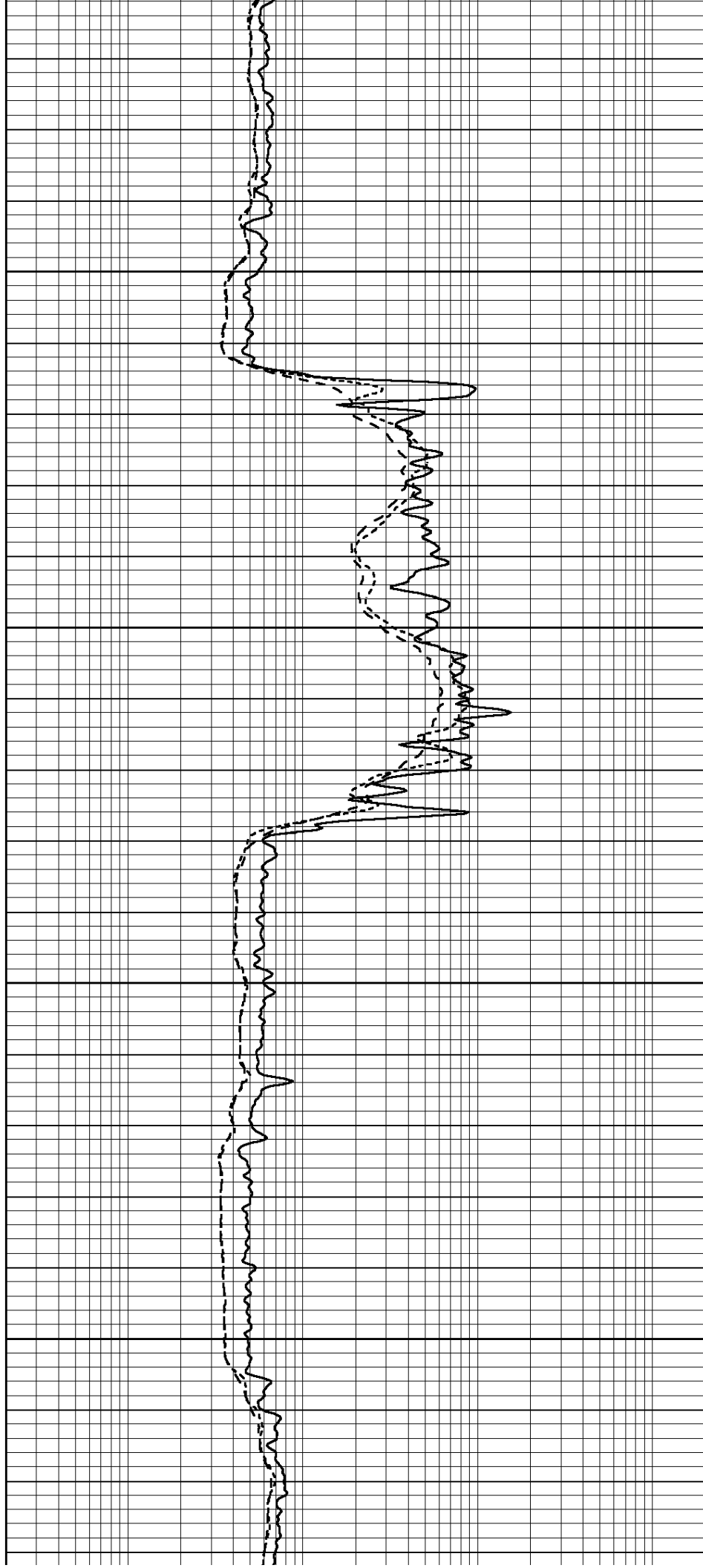


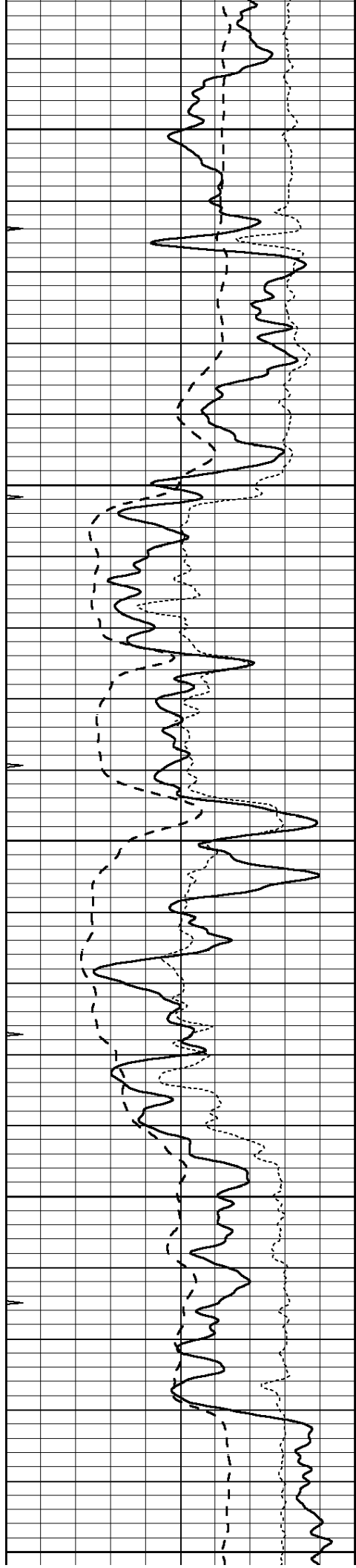
2050

2100

2150

2200





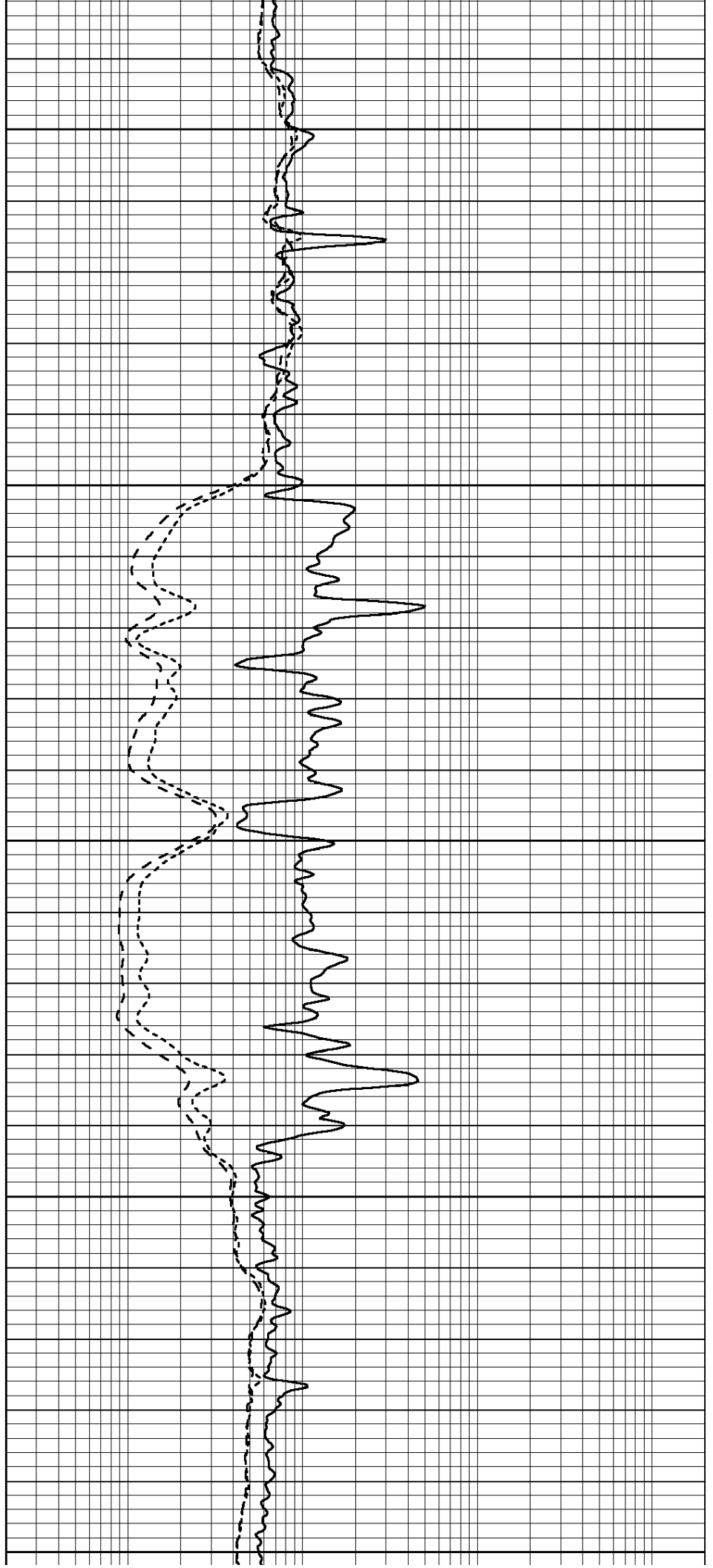
2250

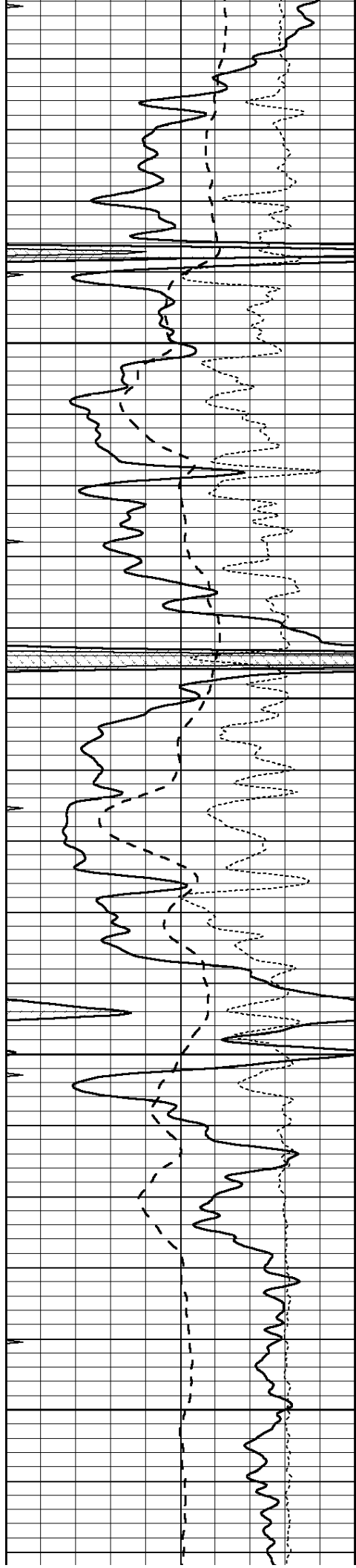
2300

2350

2400

2450



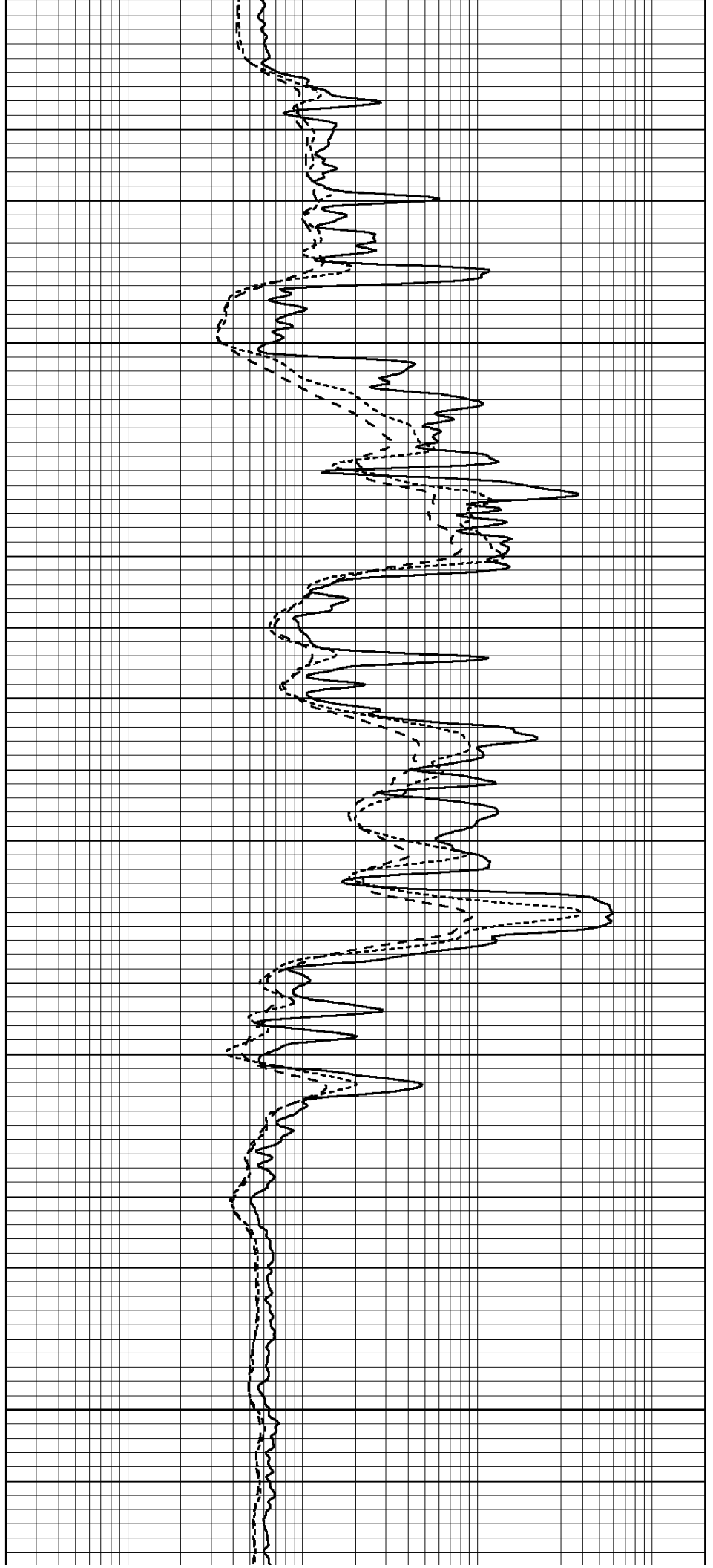


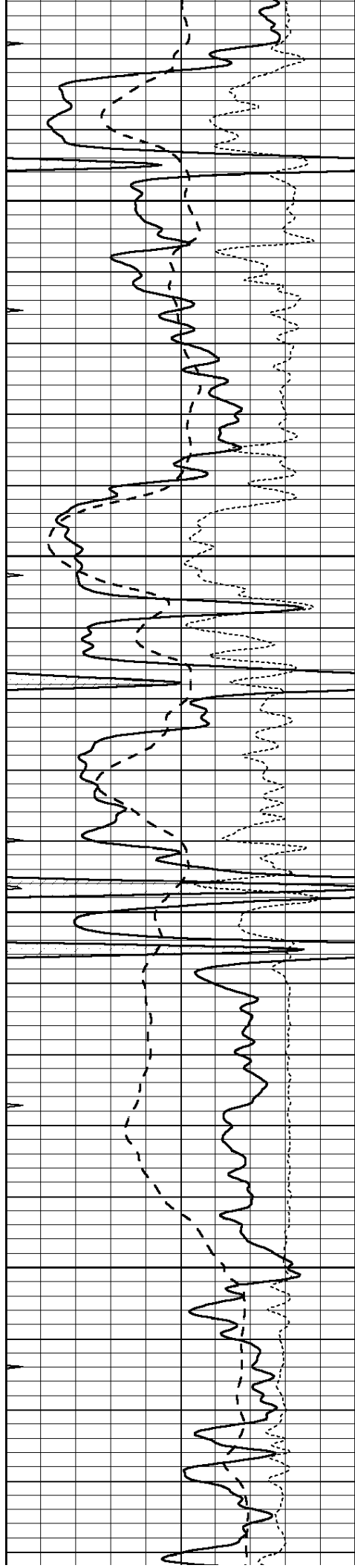
2500

2550

2600

2650



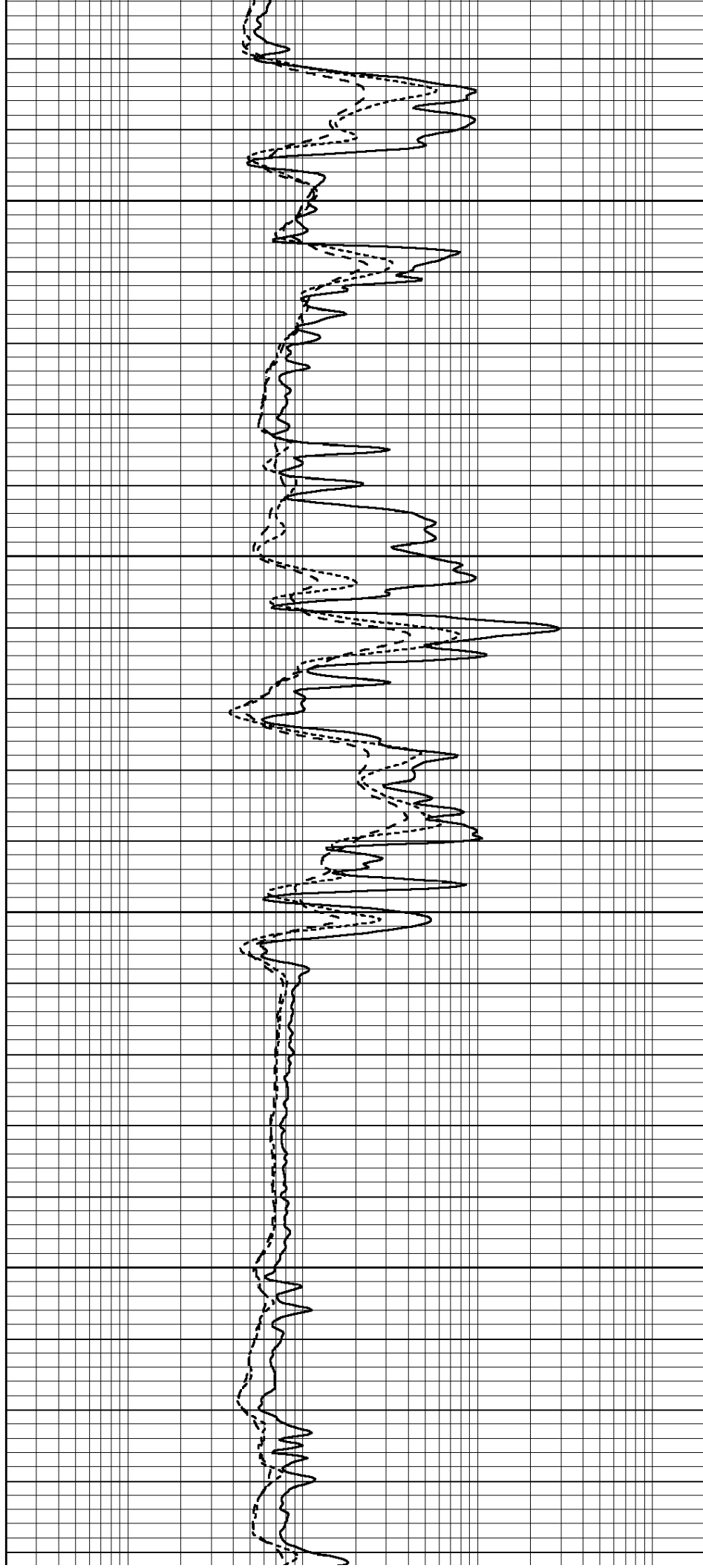


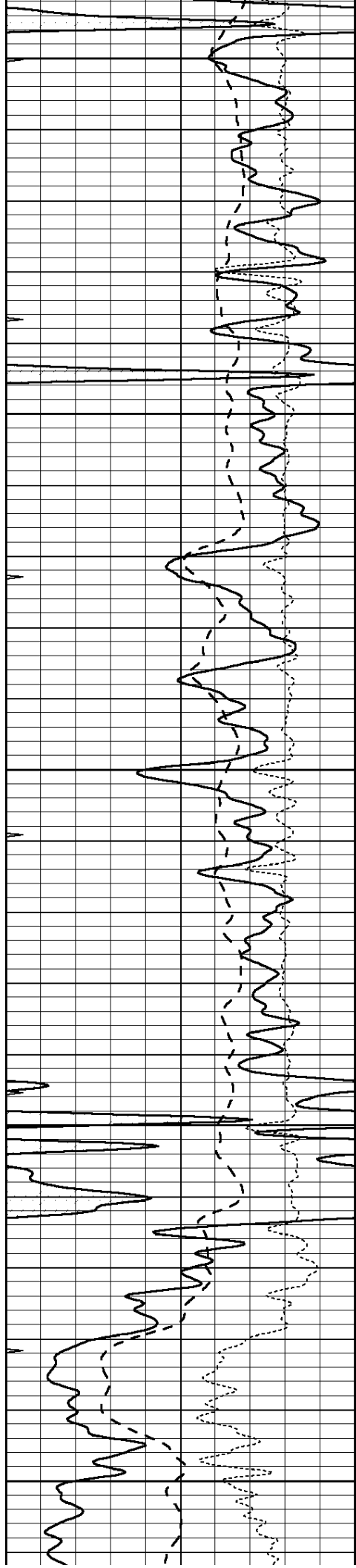
2700

2750

2800

2850





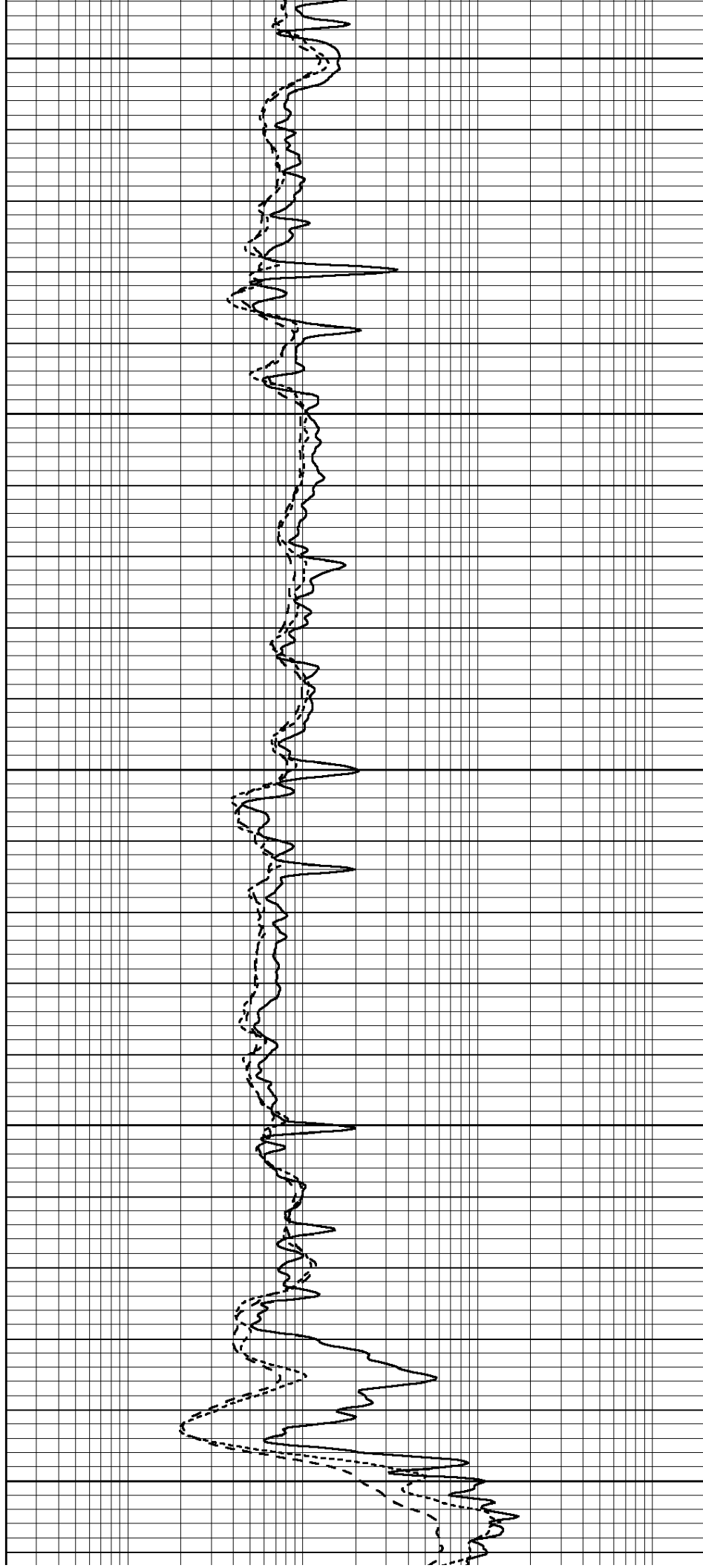
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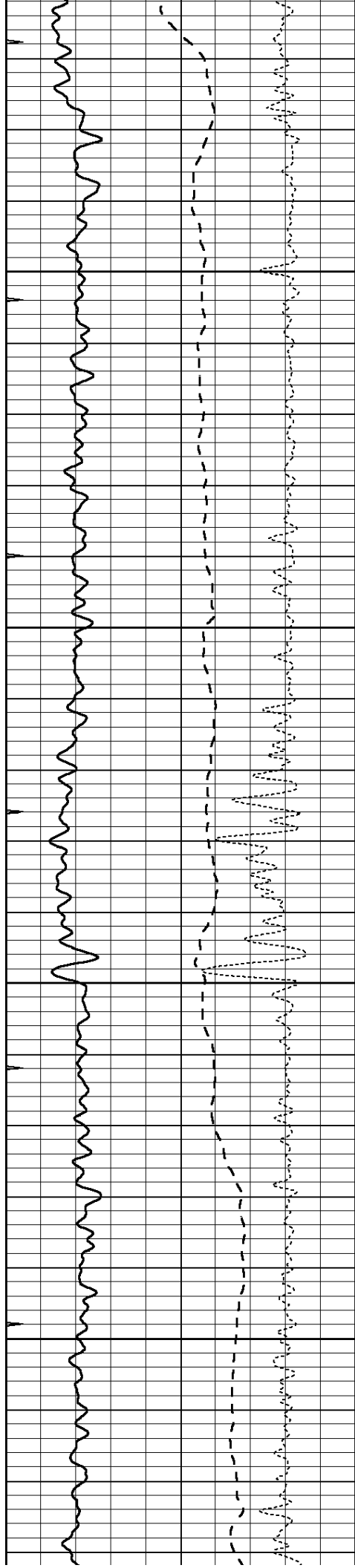
2950

3000

3050

3100



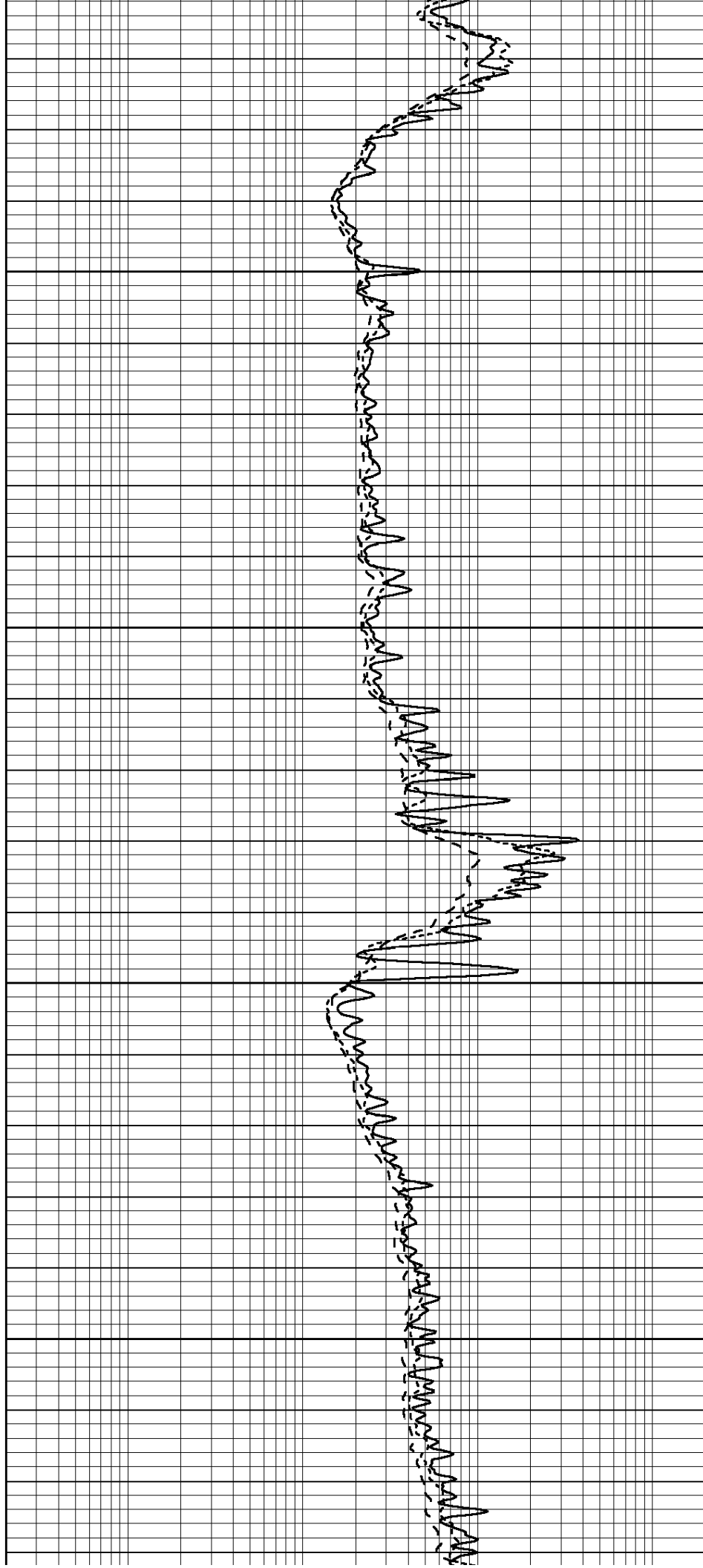


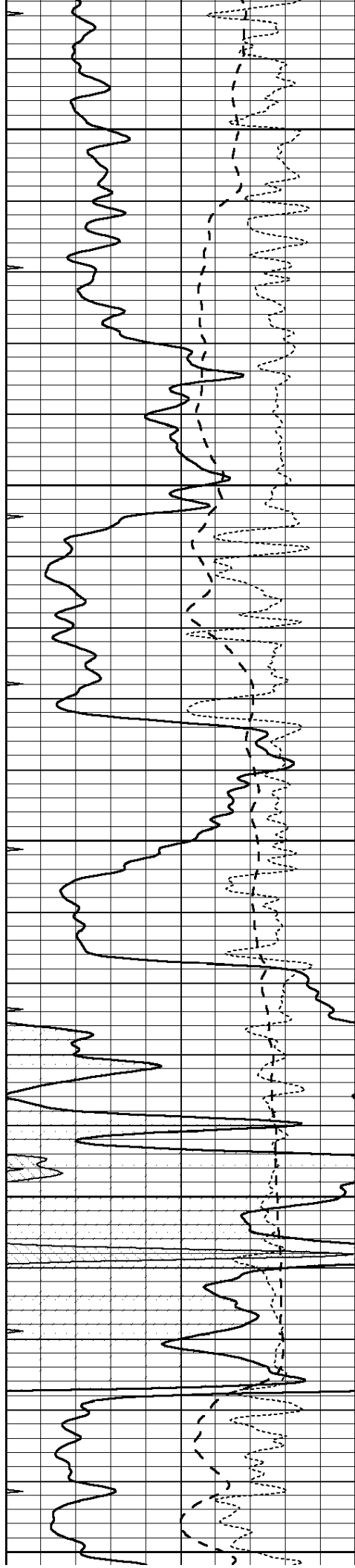
3150

3200

3250

3300





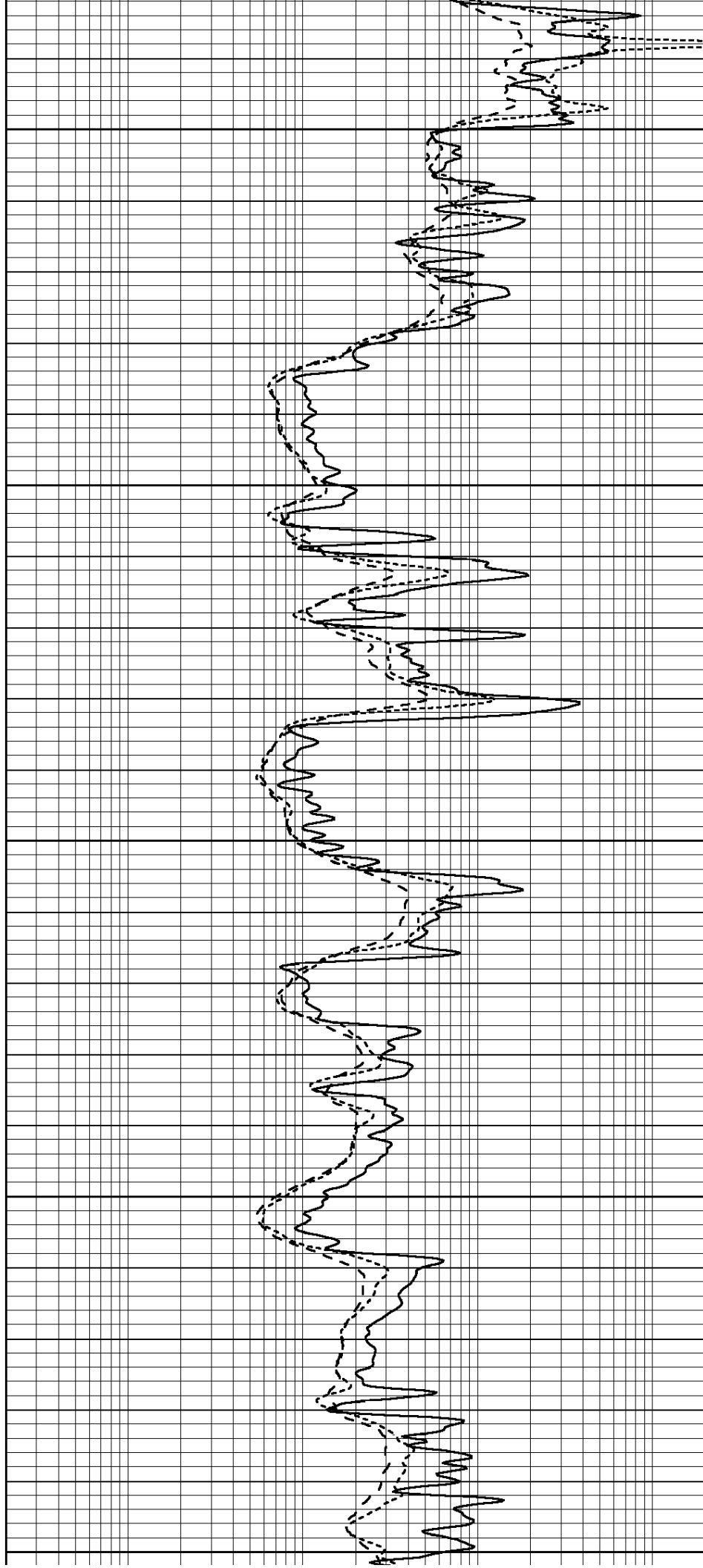
3350

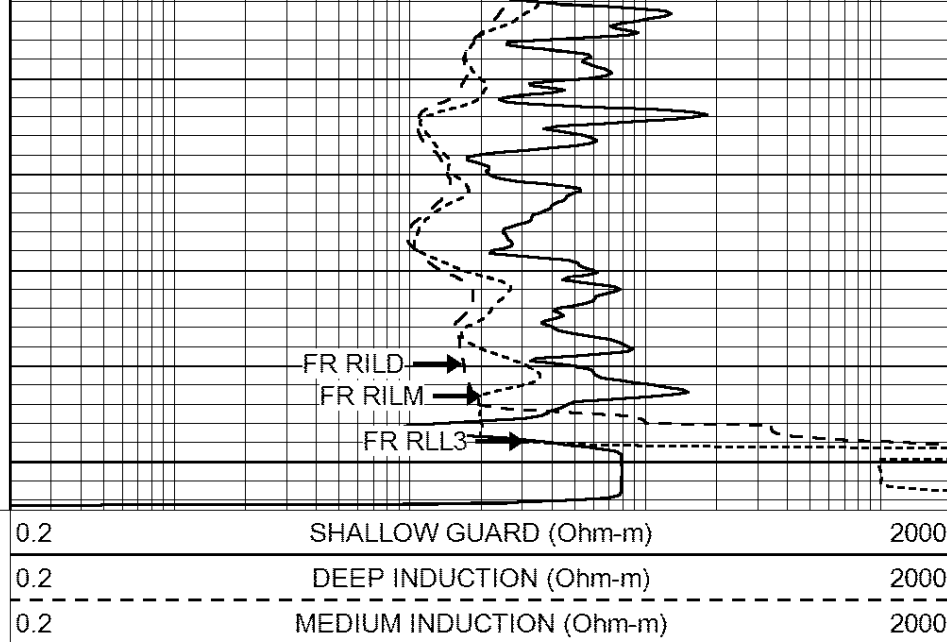
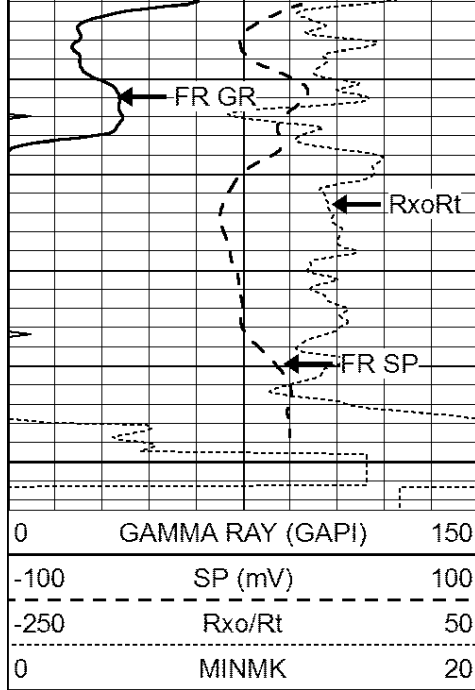
3400

3450

3500

3550

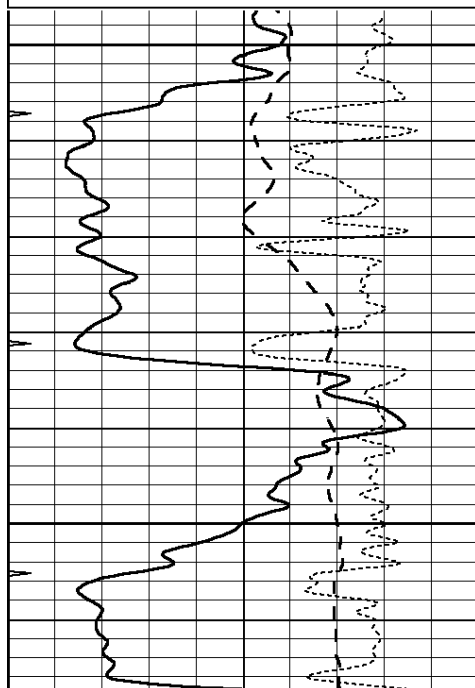
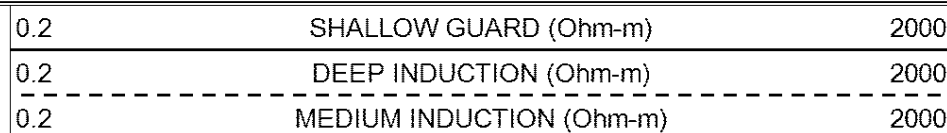
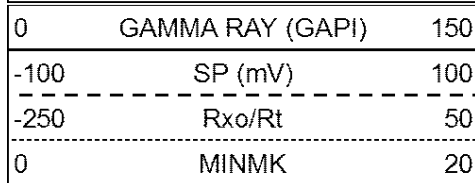




SUPERIOR
Hays,
Kansas

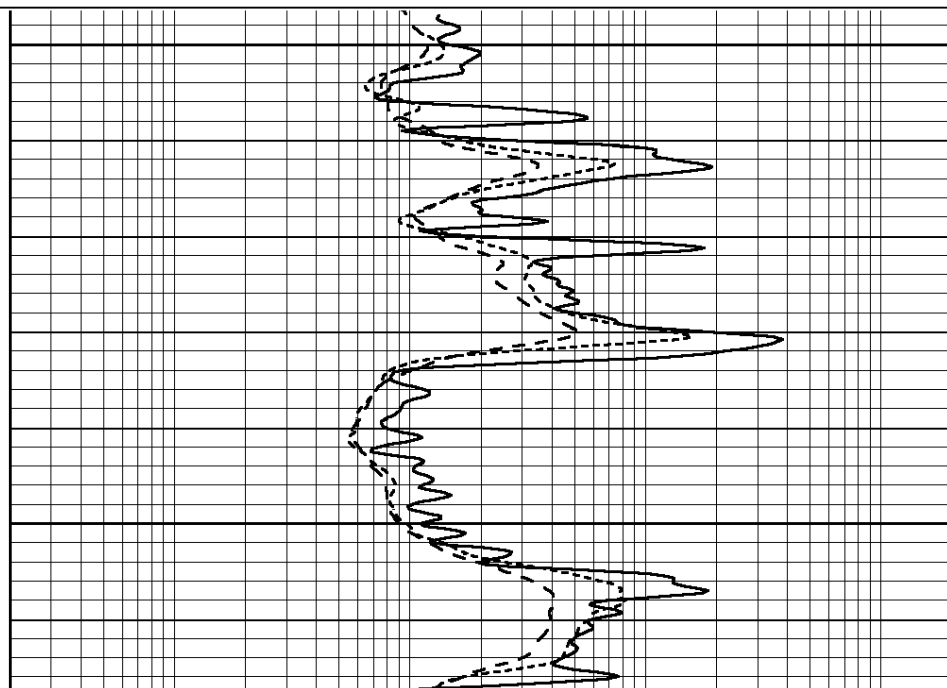
REPEAT SECTION

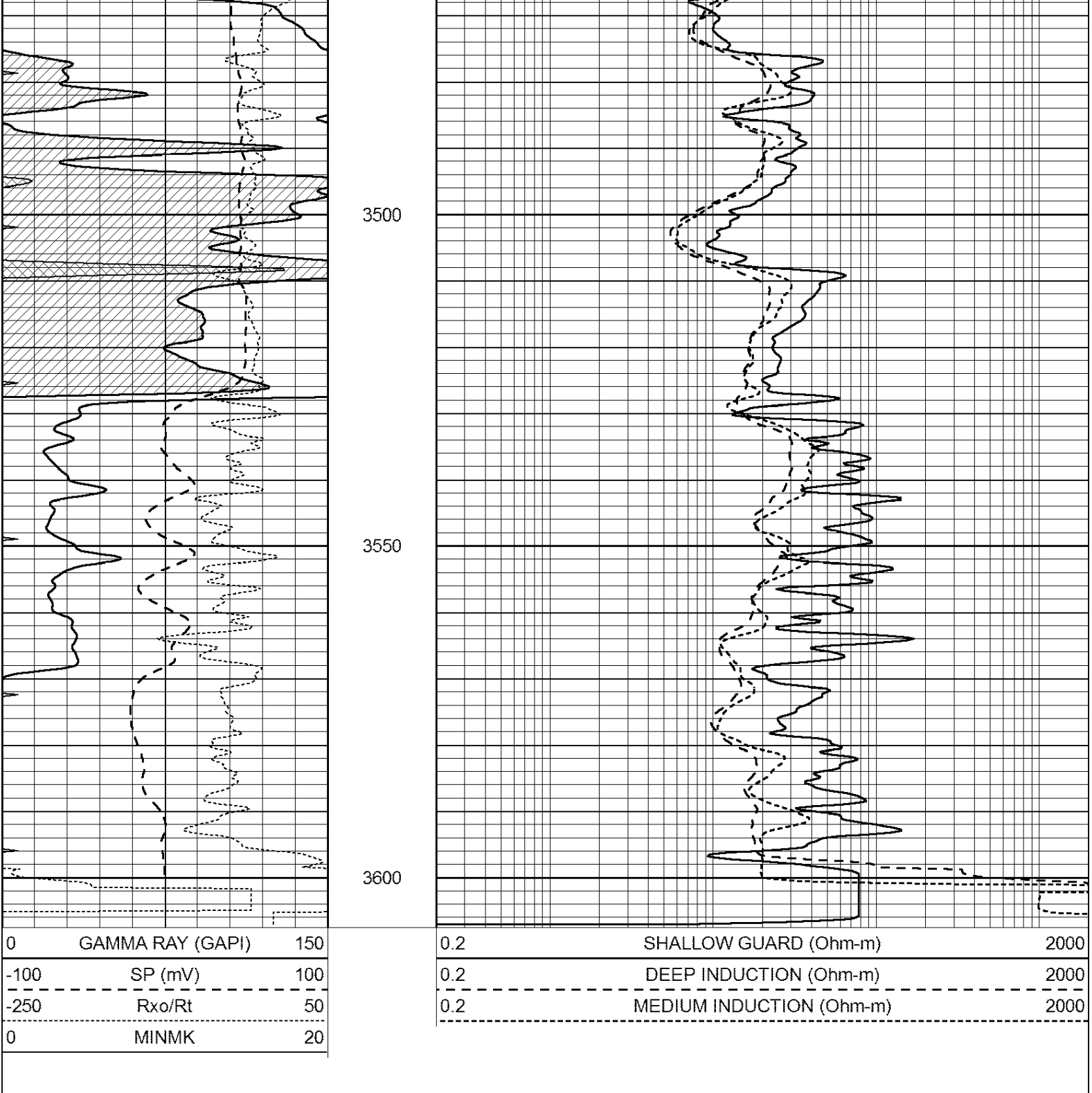
Database File: 408611pe.db
 Dataset Pathname: pass3
 Presentation Format: _dil
 Dataset Creation: Fri Mar 23 23:22:18 2012 by Log Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240



3400

3450





Calibration Report								
Database File:		408611pe.db						
Dataset Pathname:		pass4.3						
Dataset Creation:		Sat Mar 24 01:55:55 2012 by Calc Open-Cased 110302						
Dual Induction Calibration Report								
Serial-Model:		DIL3-GEAR						
Performed:		Sun Mar 18 09:01:29 2012						
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								
	Readings	Reference						
Low Ref	4.0	8.3						
High Ref	5.9	15.0						
	Gain: 3.5			Offset: -5.5				
Compensated Neutron Calibration Report								
	Serial Number:	070808						
	Tool Model:	Probe						
PRE-SURVEY VERIFICATION								
	Detector	Readings		Measured		Target		
	Short Space	cps						
	Long Space	cps		pu		pu		
POST-SURVEY VERIFICATION								
	Detector	Readings		Measured		Target		
	Short Space	cps						
	Long Space	cps		pu		pu		
Gamma Ray Calibration Report								
	Serial Number:	070559						
	Tool Model:	OPEN_GR						
	Performed:	Wed Mar 14 16:09:52 2012						
	Calibrator Value:	1.0		GAPI				
	Background Reading:	0.0		cps				
	Calibrator Reading:	1.0		cps				
	Sensitivity:	0.3000		GAPI/cps				