



KANSAS CORPORATION COMMISSION 1078700
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1078700

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

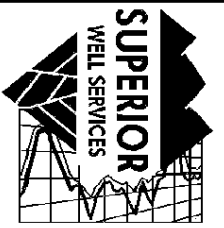
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Caerus Kansas LLC
Well Name	Hoffman Ranch 23-23
Doc ID	1078700

All Electric Logs Run

Dual Induction
Microlog
Porosity
Sonic



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company CAERUS KANSAS, LLC.
Well HOFFMAN RANCH #23-23
Field HOISINGTON EAST
County BARTON State KANSAS

Location: API #: 15-009-25639
1795' FSL & 1814' FWL
SEC 123 TWP 17S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1856
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
SONIC/MEL
Elevation
K.B. 1865
D.F.
G.L. 1856

Date	12-13-11
Run Number	ONE
Depth Driller	3450
Depth Logger	3449
Bottom Logged Interval	3447
Top Log Interval	00
Casing Driller	820
Casing Logger	820
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3 / 45
pH / Fluid Loss	9.5 / 8.8
Source of Sample	FLOWLINE
Rim @ Meas. Temp	0.65 @ 70F
Rmf @ Meas. Temp	0.49 @ 70F
Rmc @ Meas. Temp	0.78 @ 70F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	.420 @ 109F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	2:30 P.M.
Maximum Recorded Temperature	109F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
Witnessed By	JEFF LAWLER

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HOISINGTON DAIRY QUEEN, 2E, 2 1/2N, E INTO.



**SUPERIOR
Hays,
Kansas**

MAIN SECTION

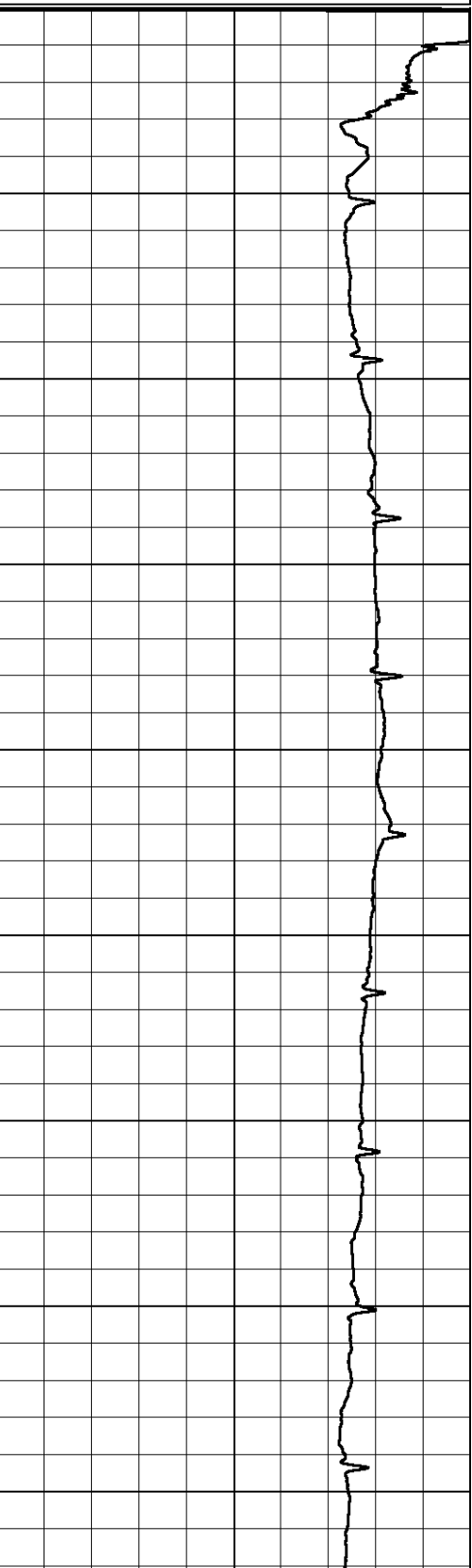
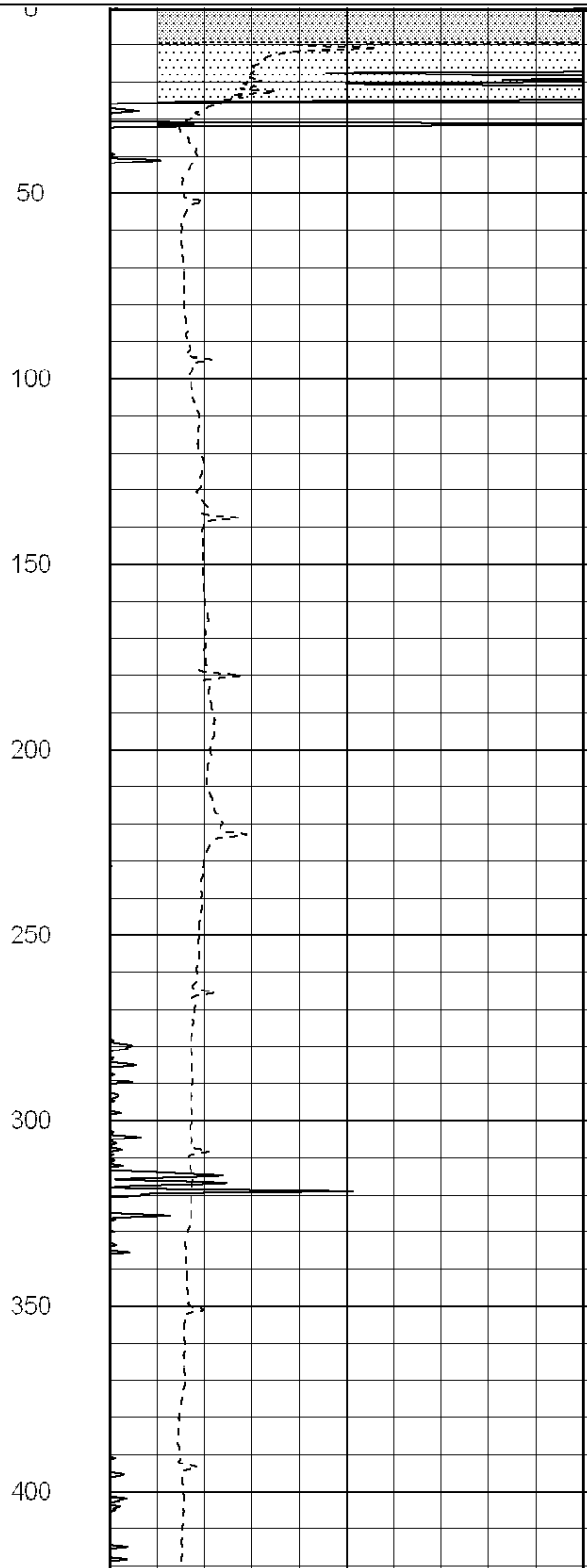
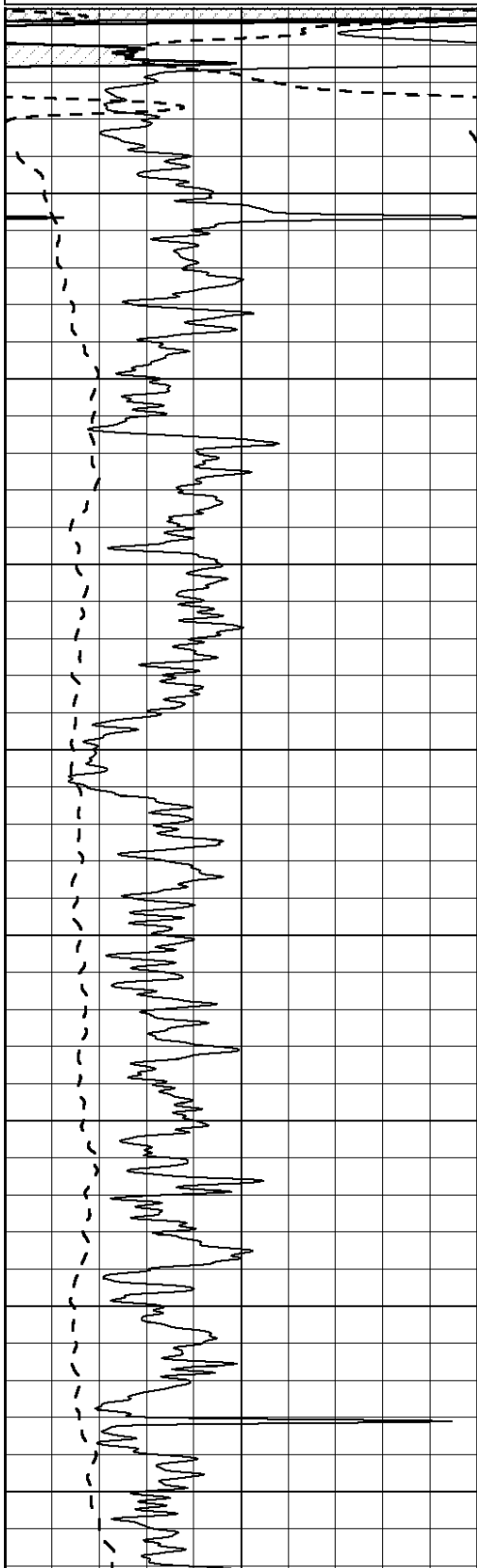
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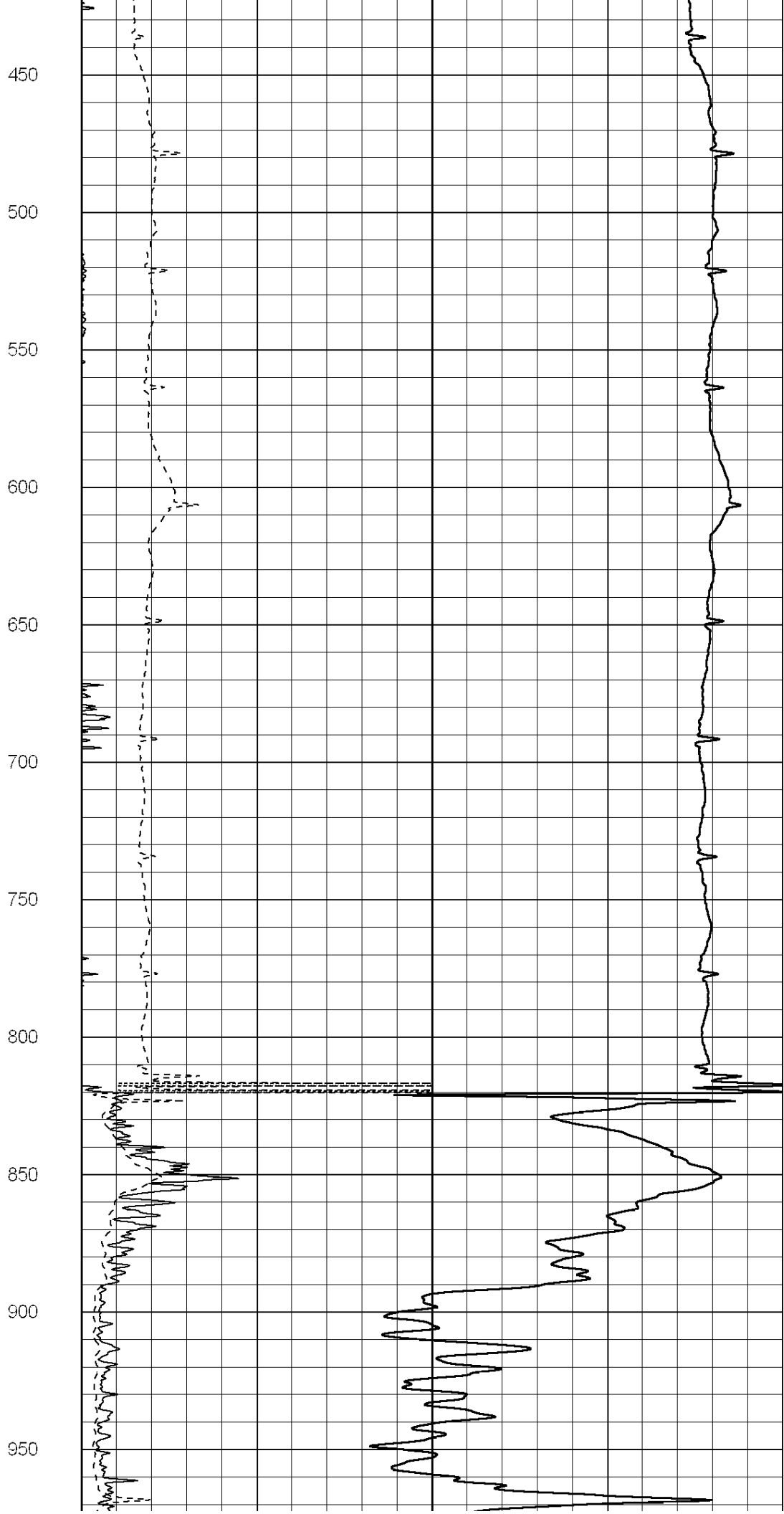
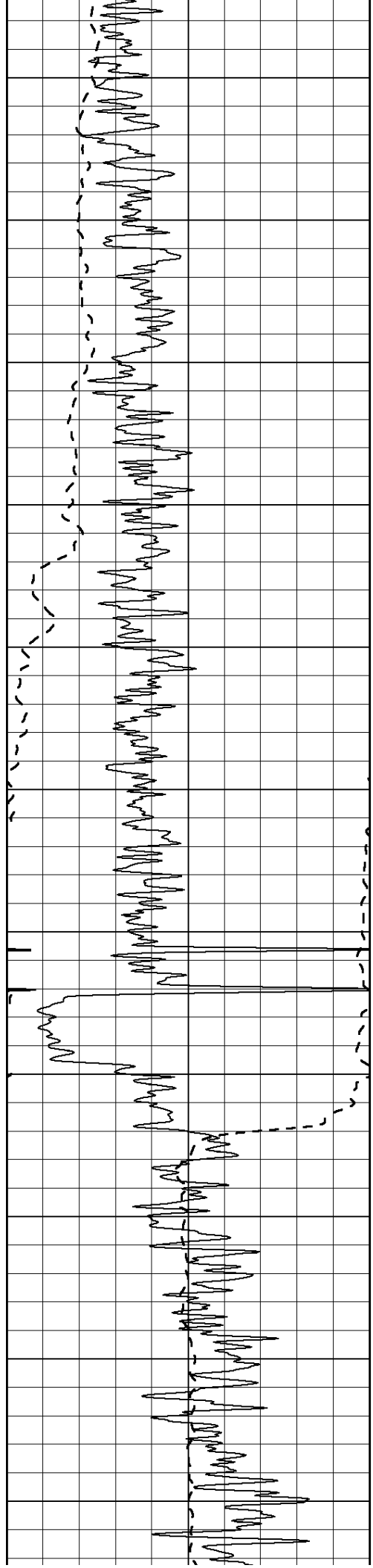
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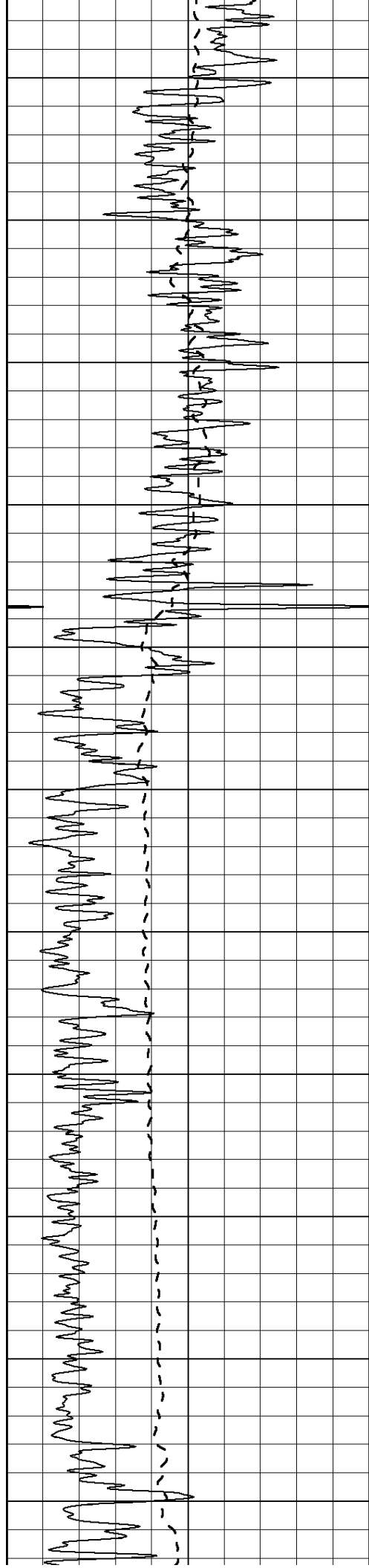
0	RLL3 (Ohm-m)	50
0	Deep Induction (Ohm-m)	50

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







1000

1050

1100

1150

1200

1250

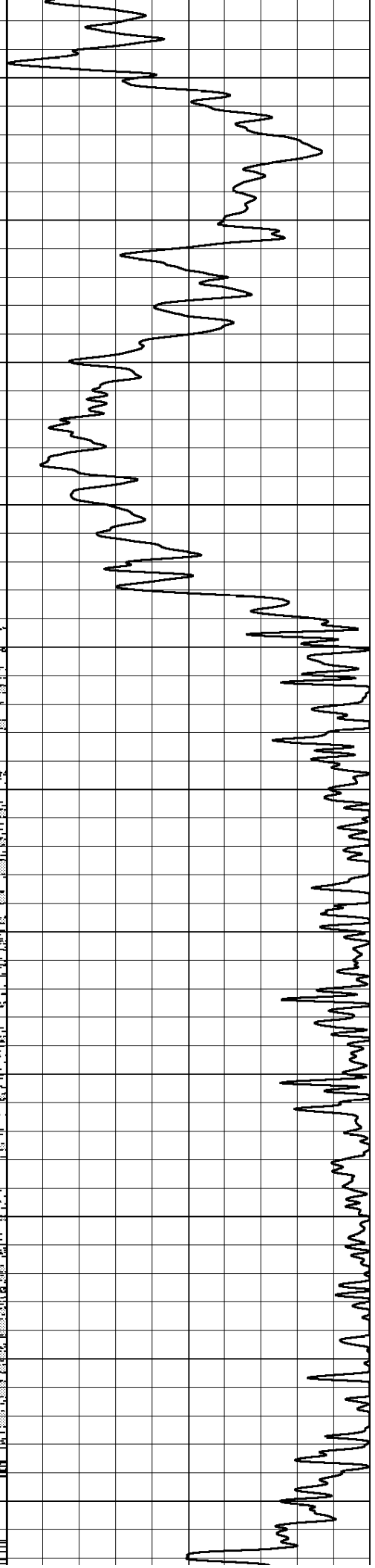
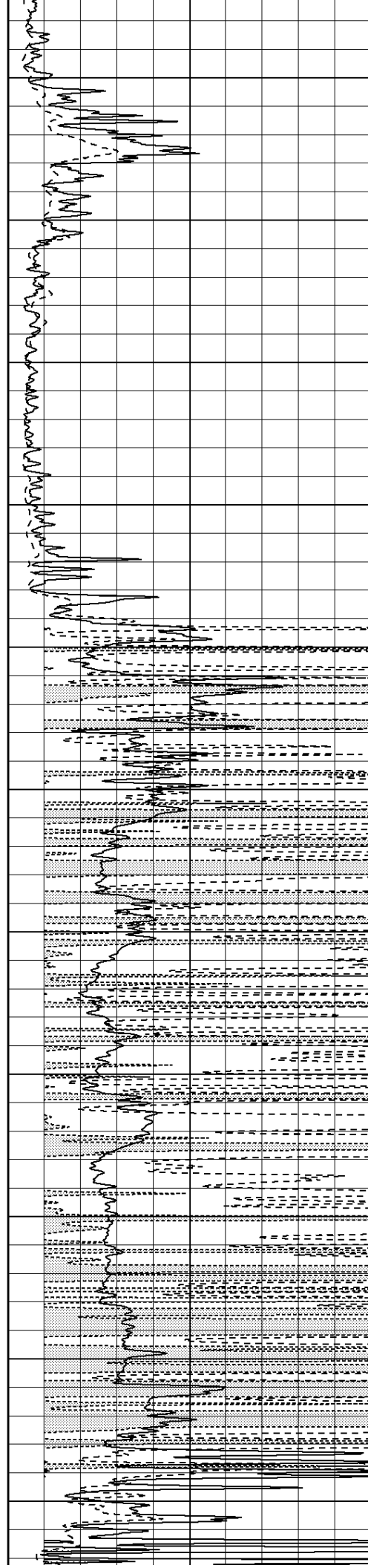
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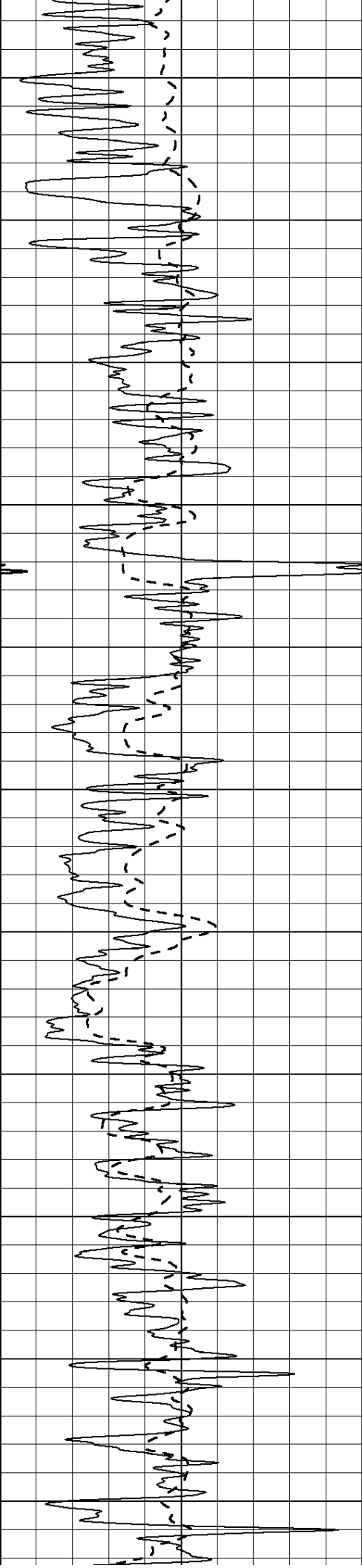
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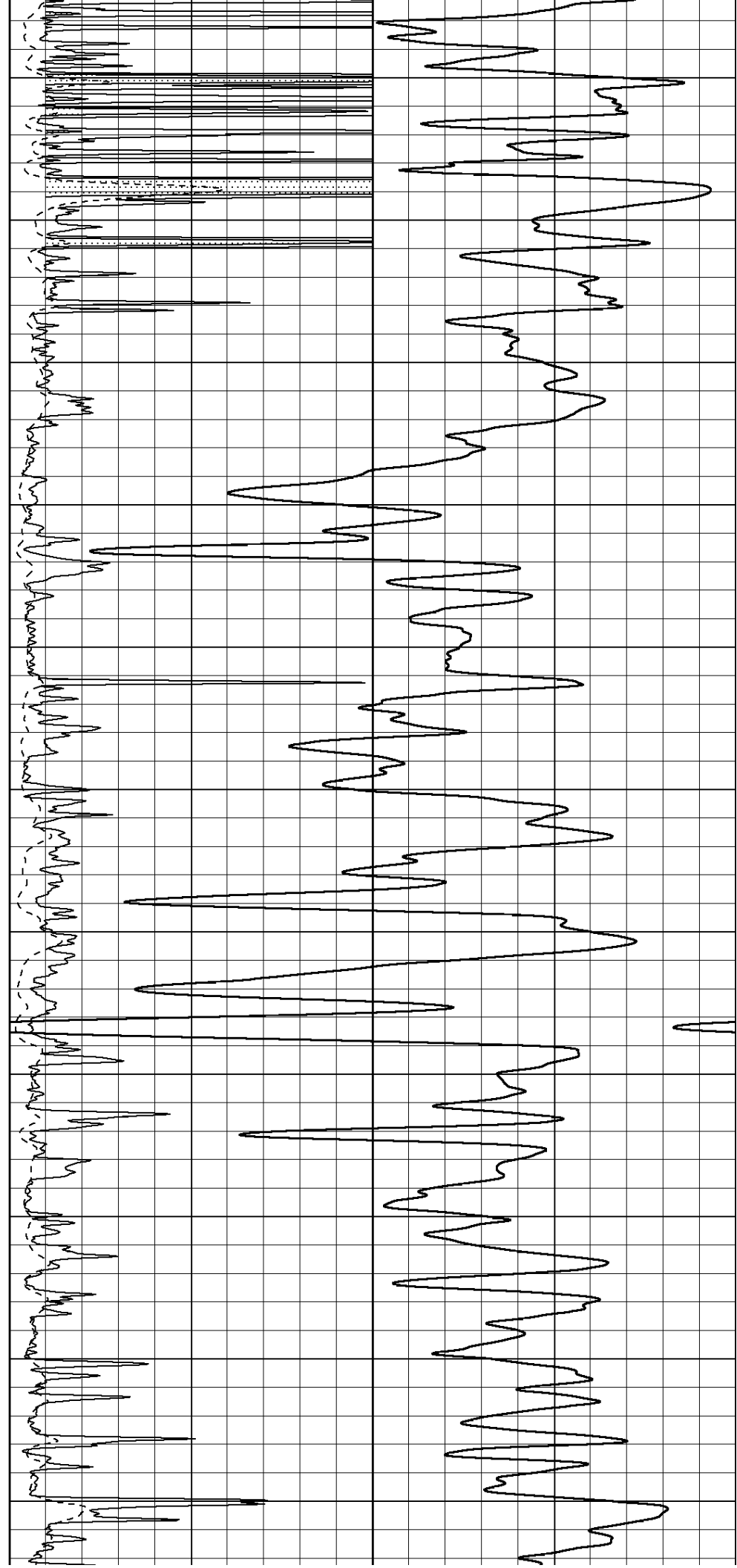
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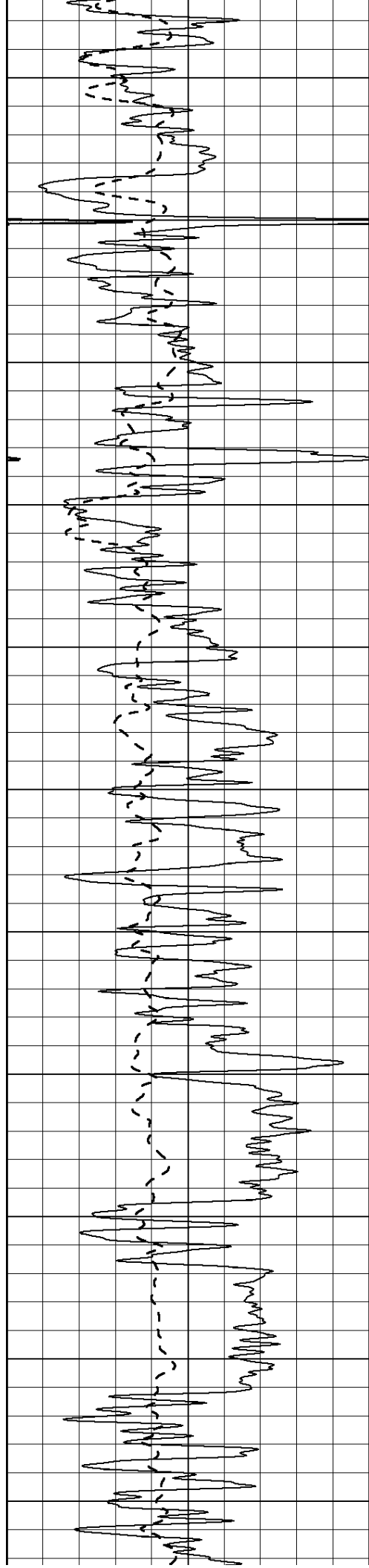
1500





1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050





2100

2150

2200

2250

2300

2350

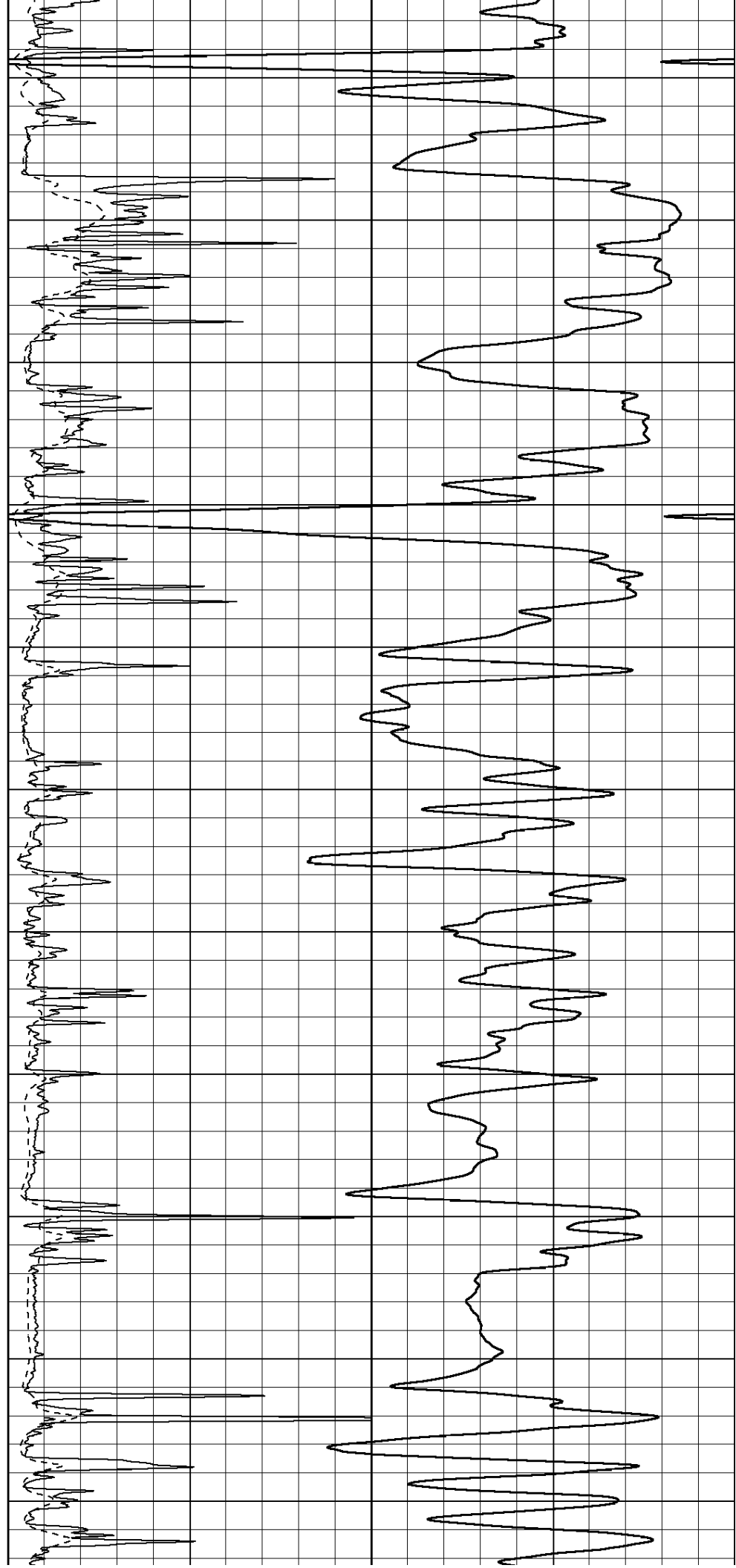
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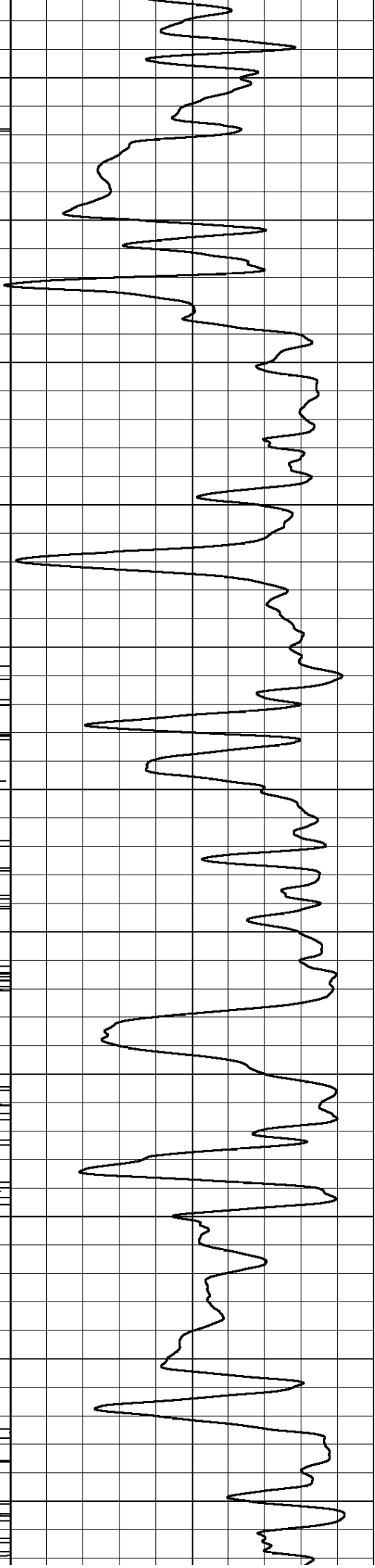
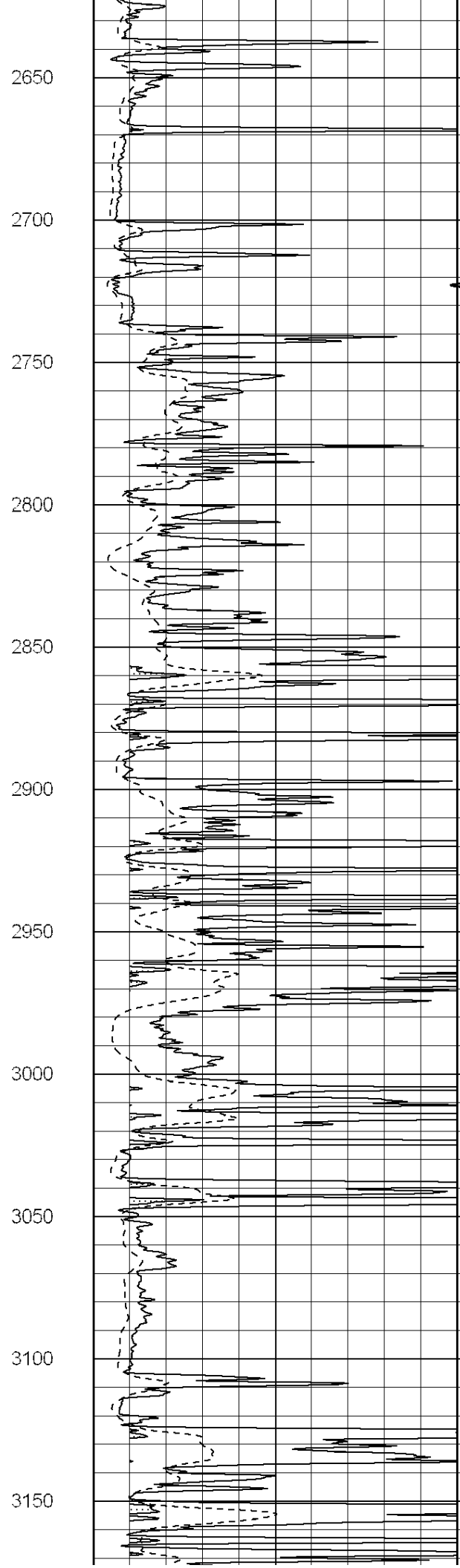
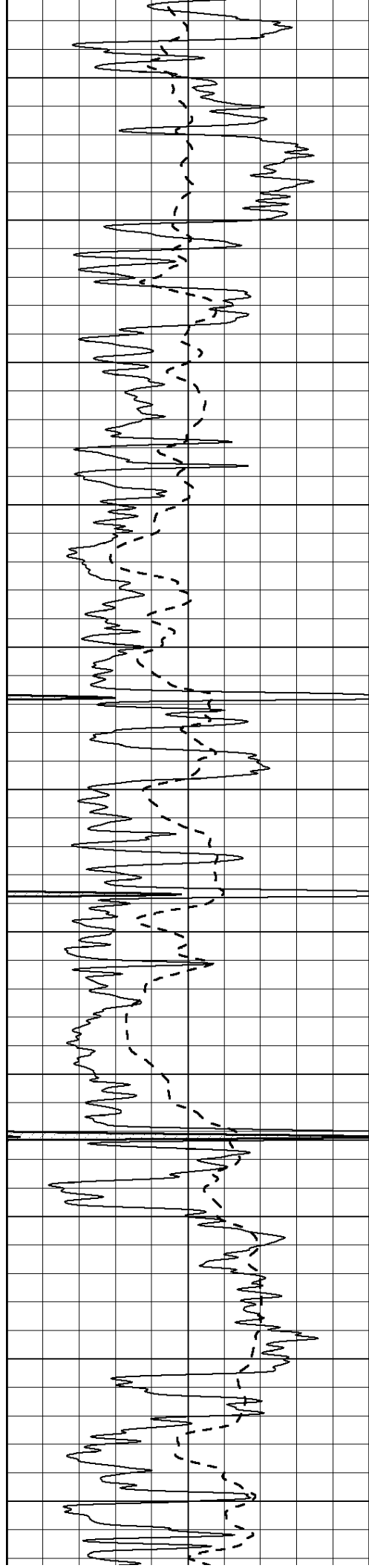
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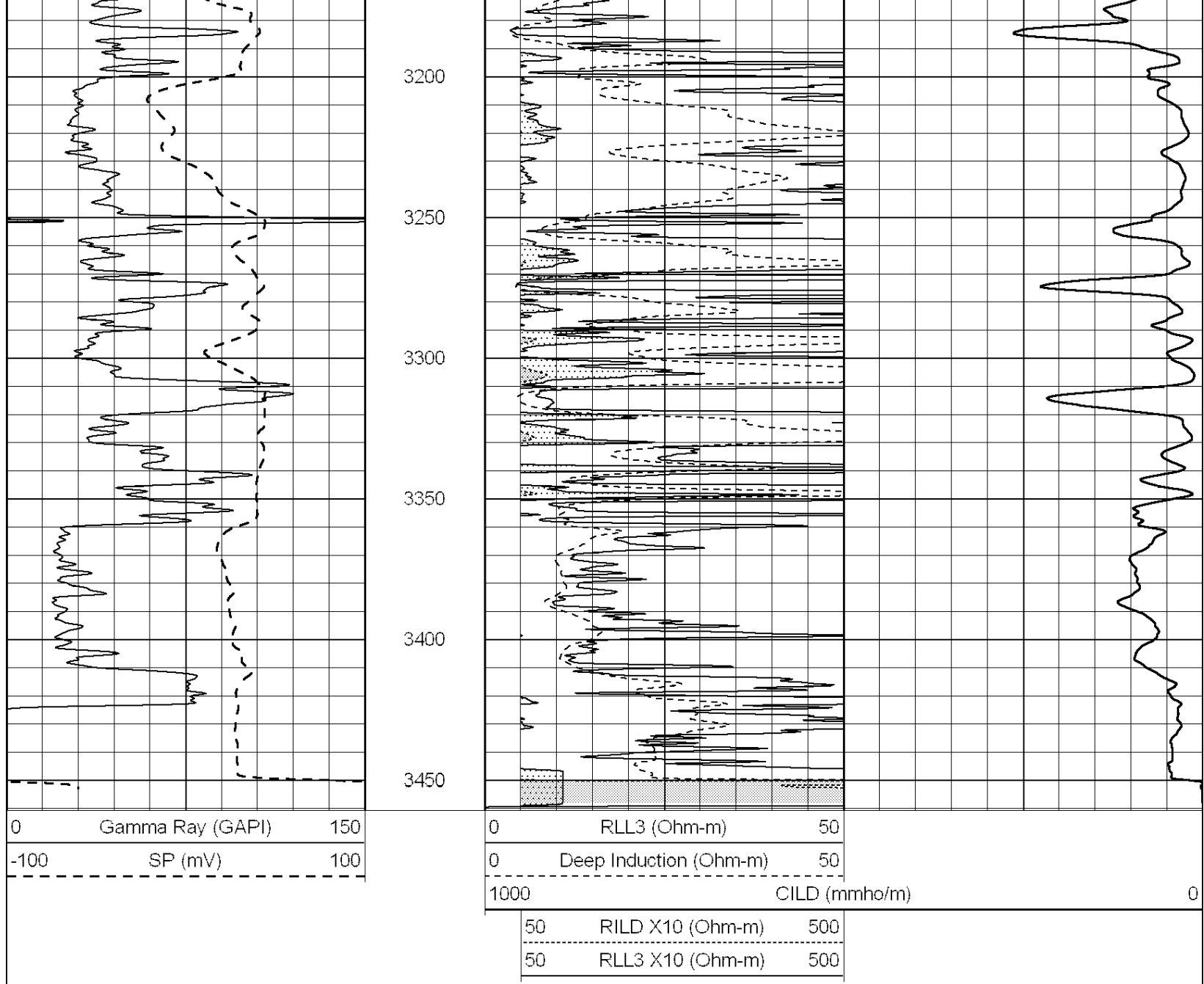
2500

2550

2600





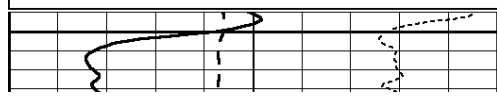


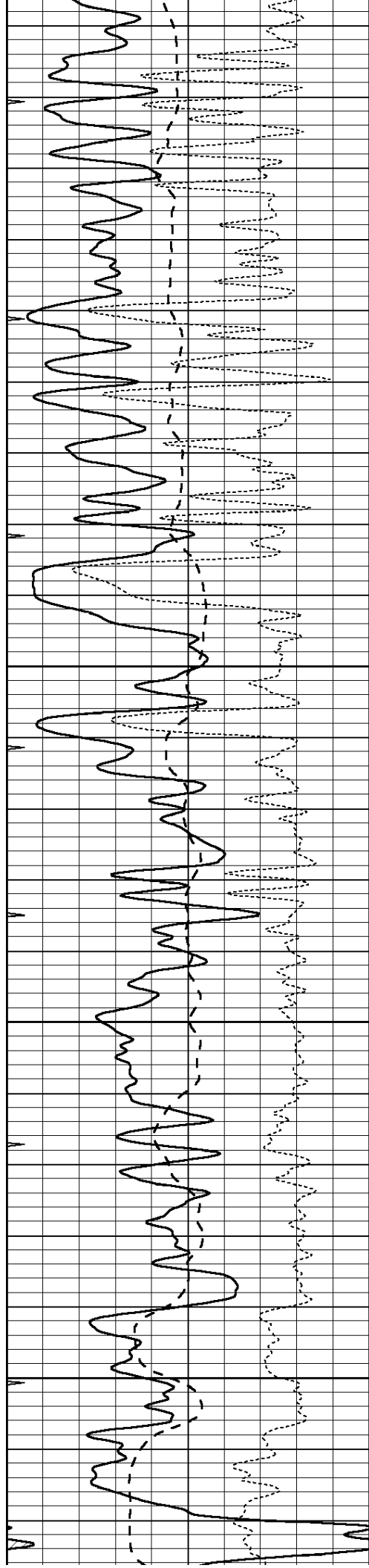
SUPERIOR
Hays,
Kansas

MAIN SECTION

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 Dataset Creation: Tue Dec 13 16:26:17 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



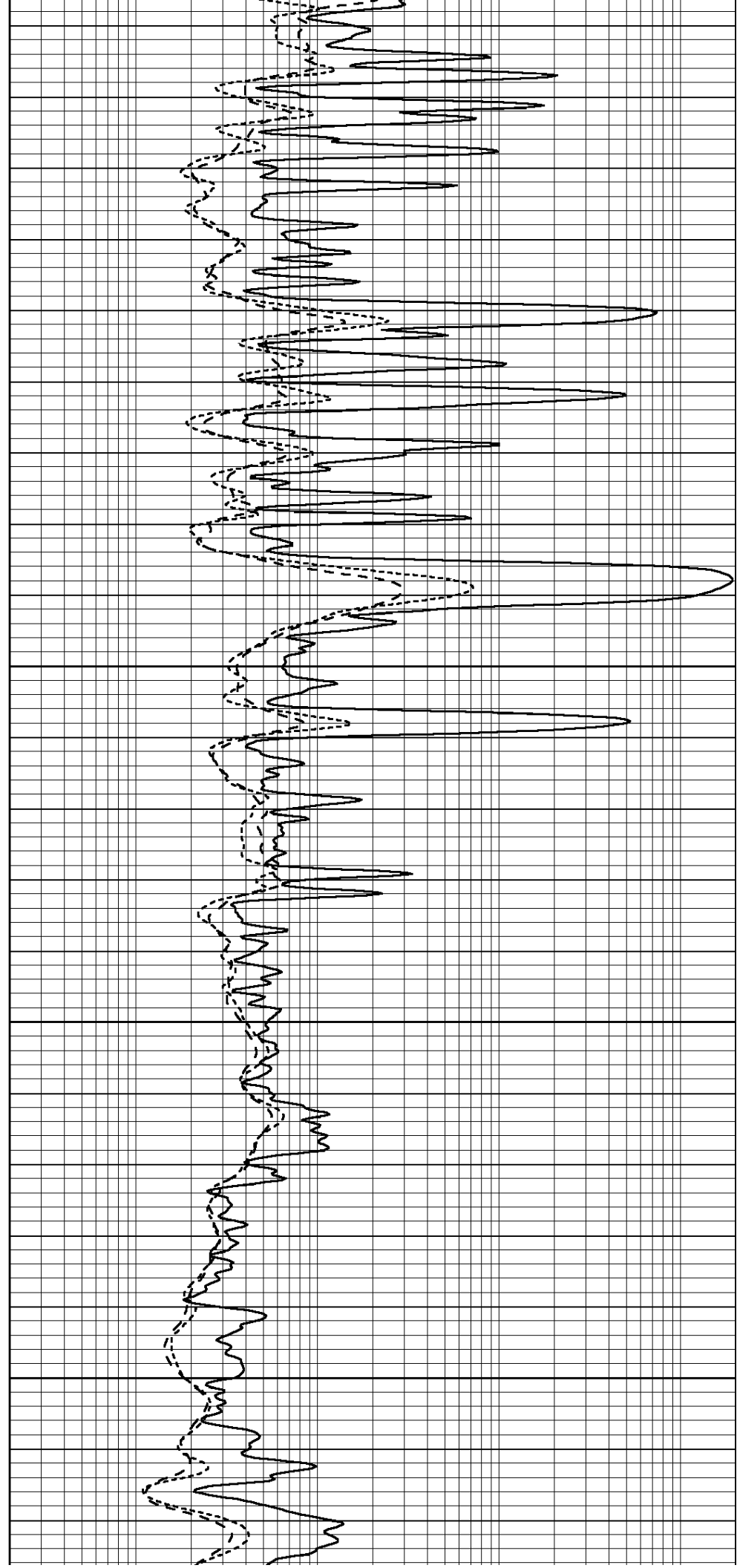


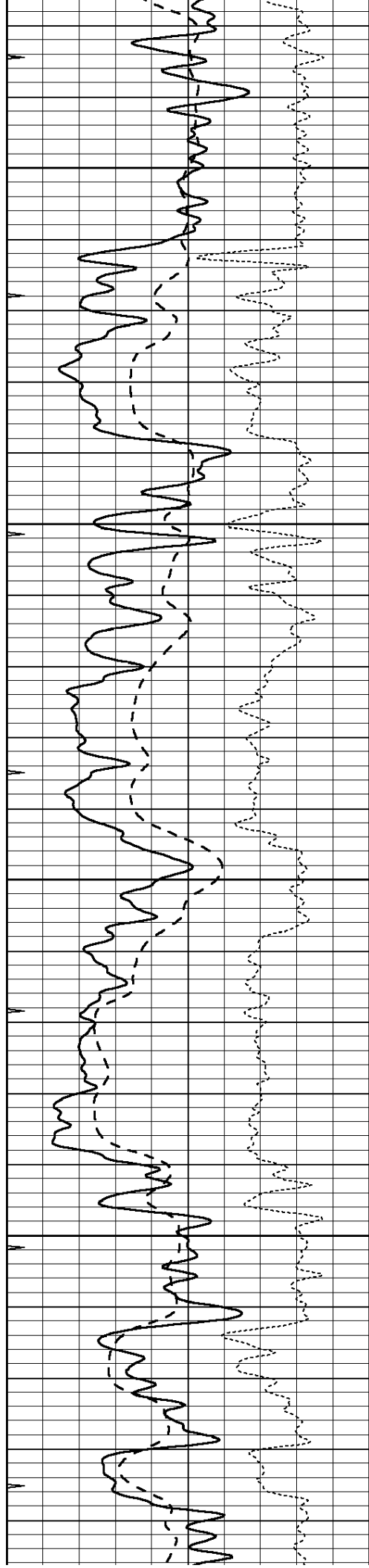
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1600

1650

1700



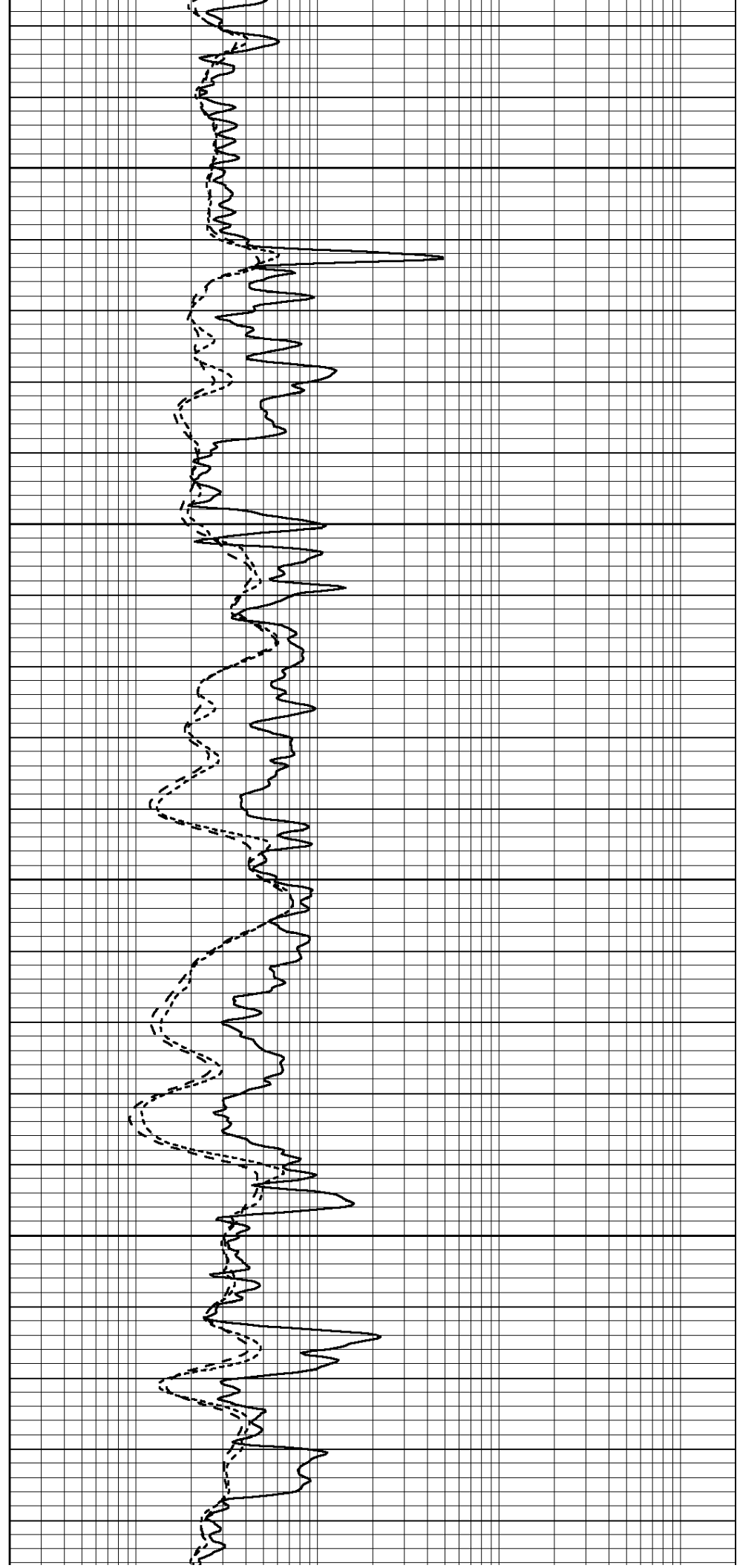


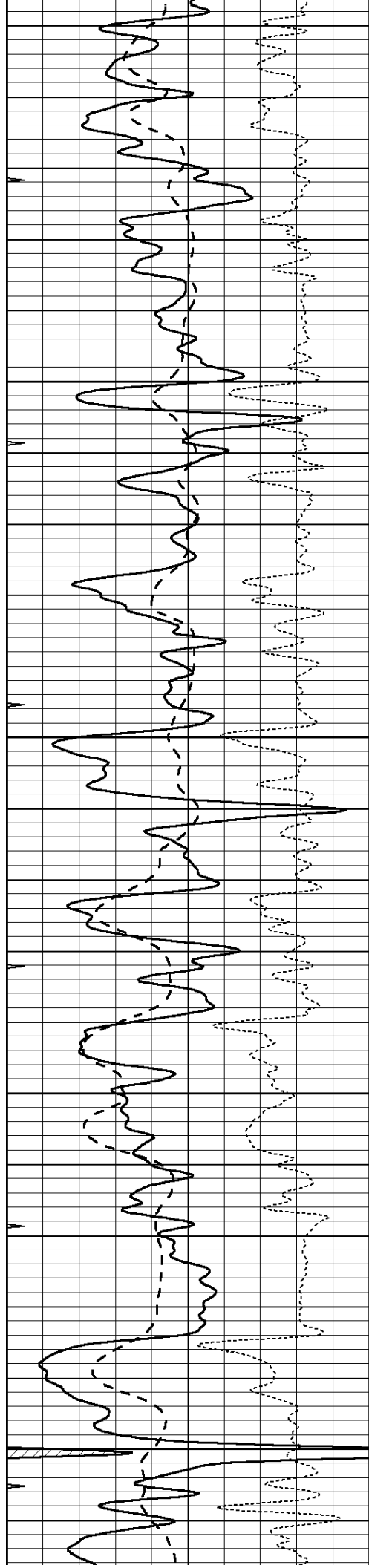
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1800

1850

1900





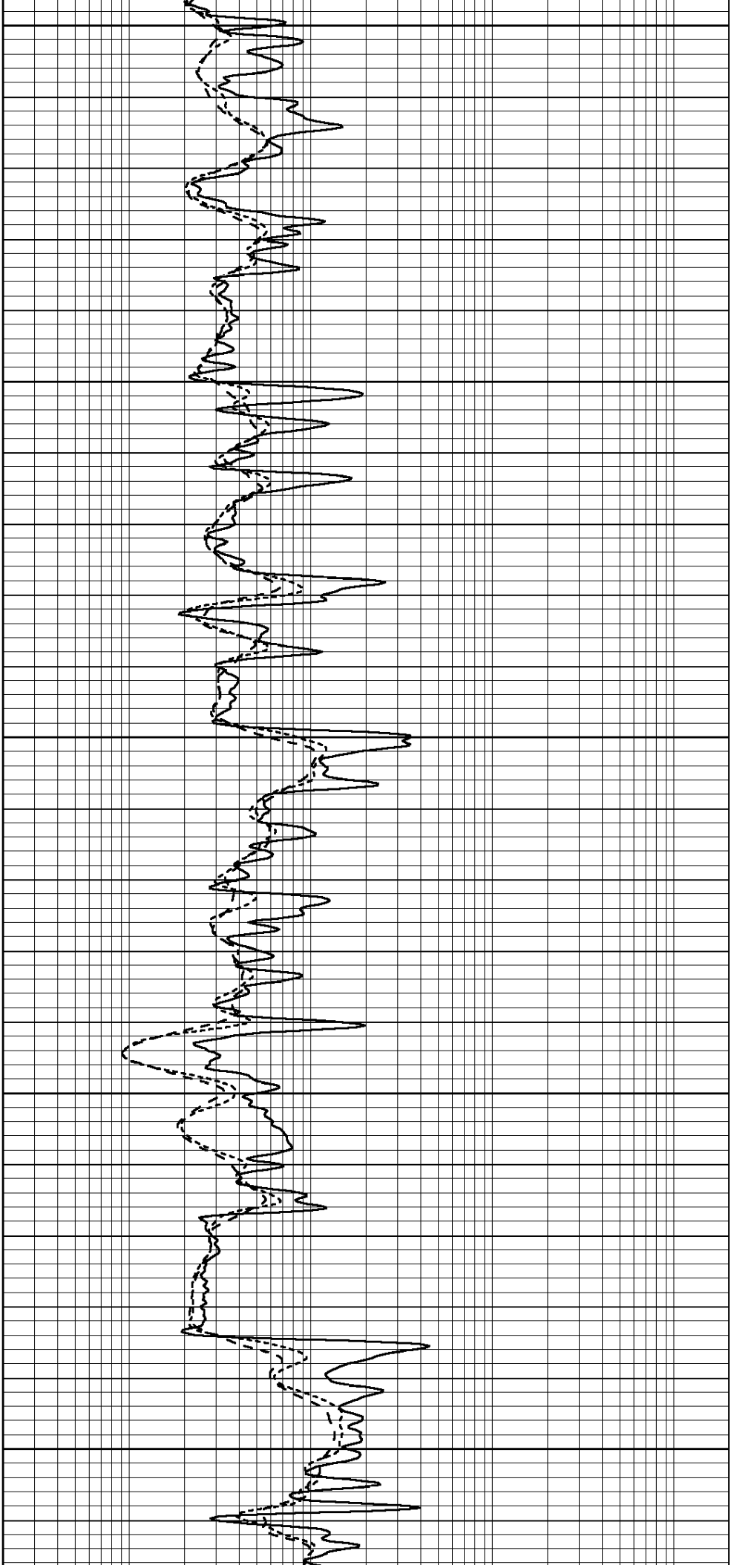
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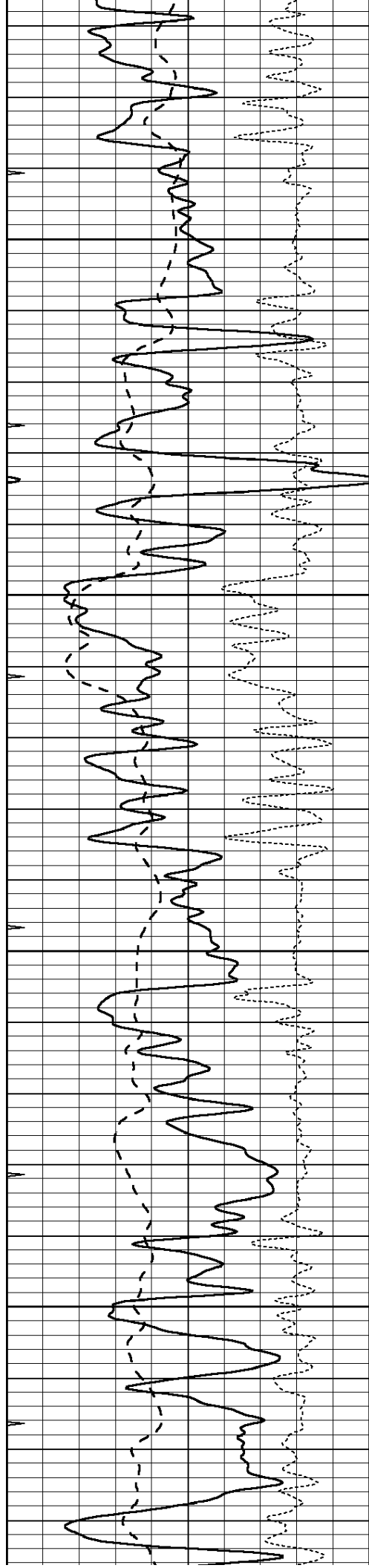
2000

2050

2100

2150



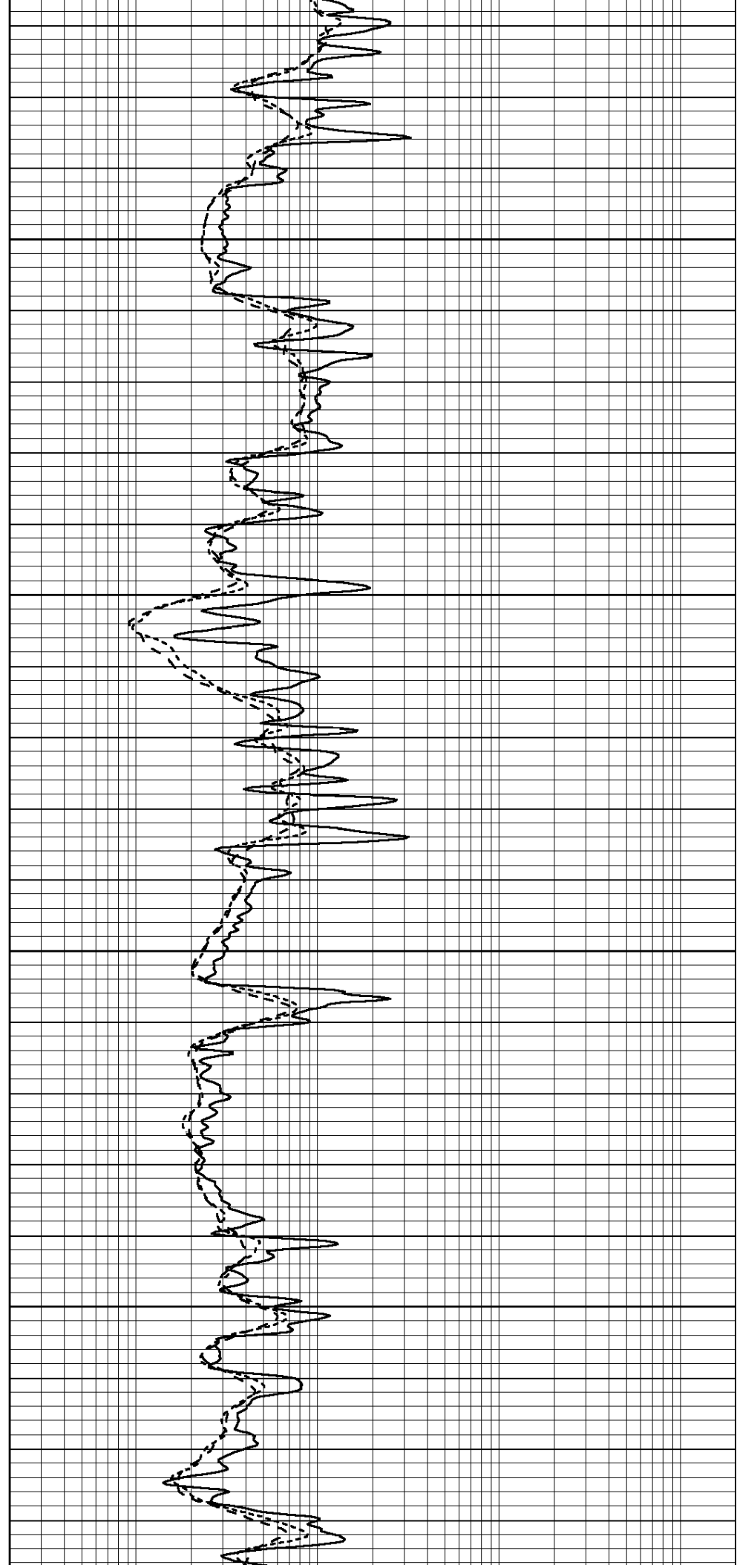


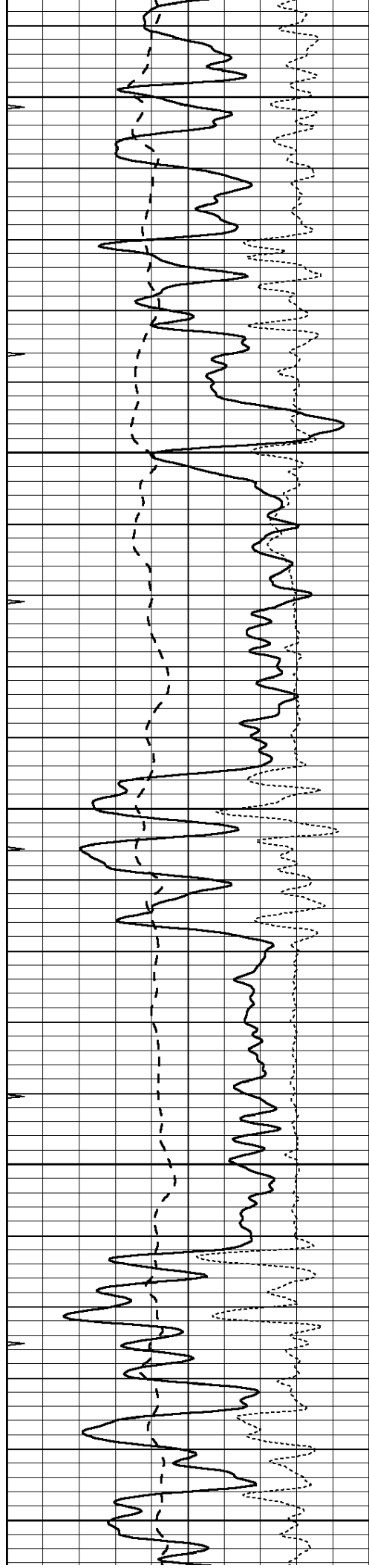
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2250

2300

2350





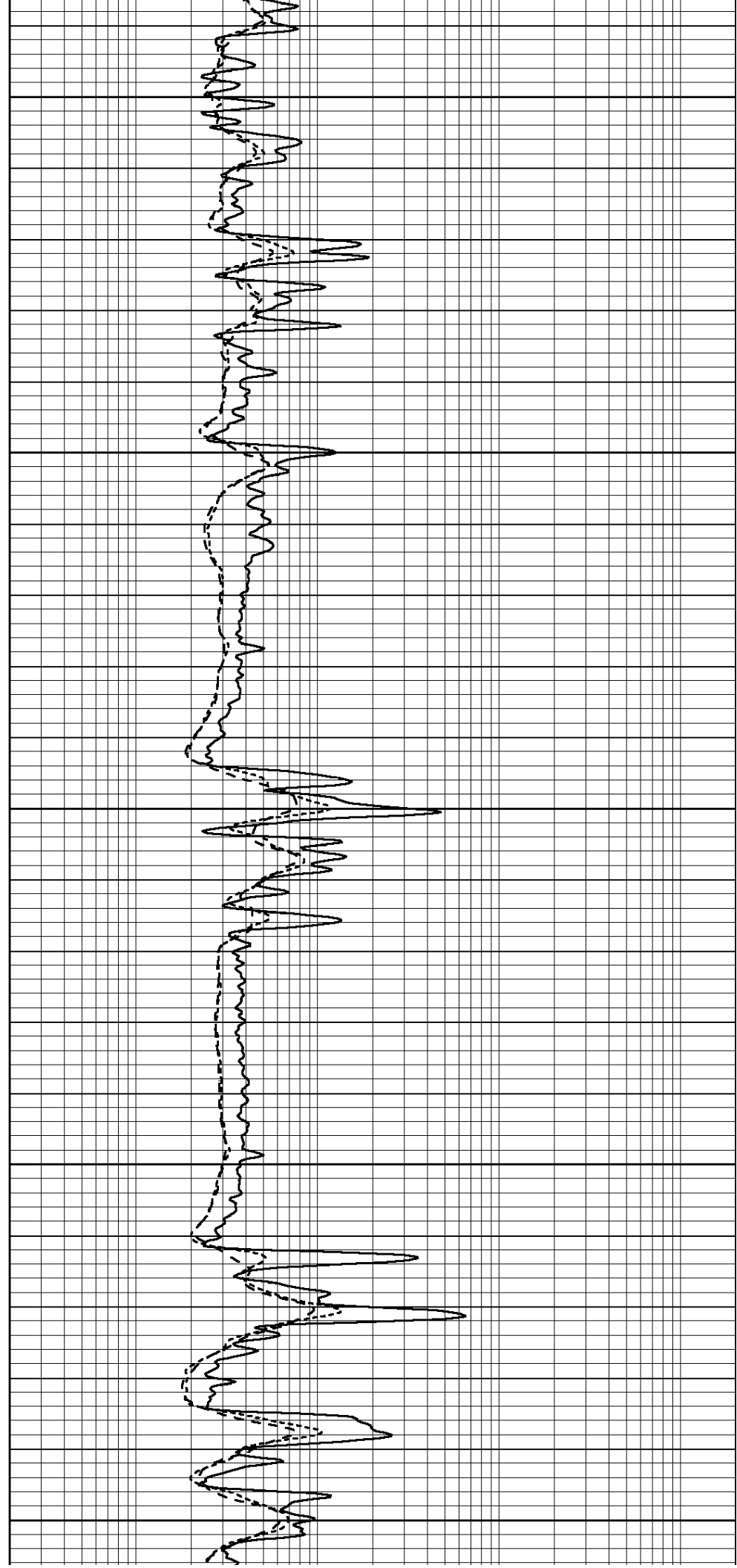
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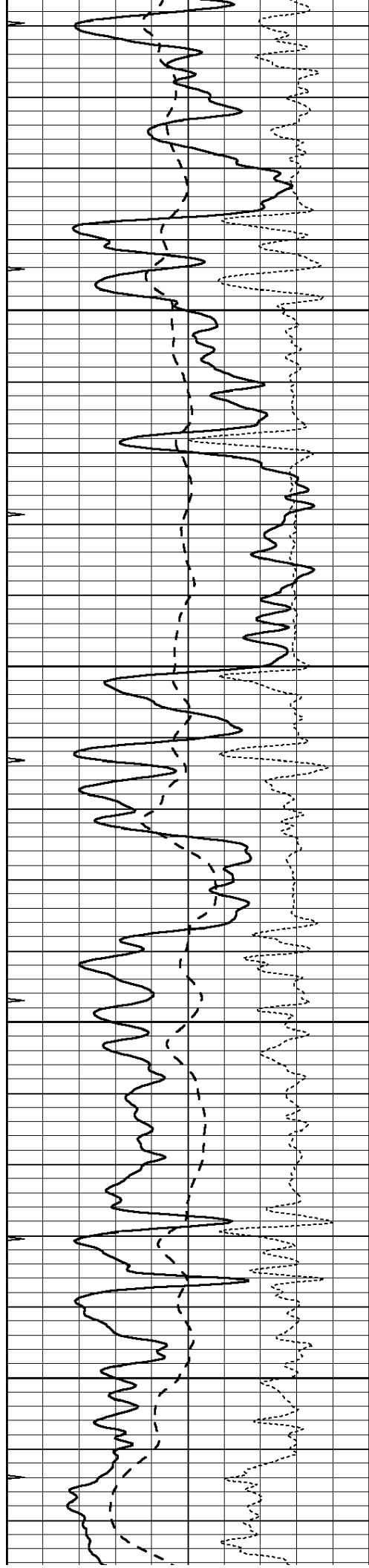
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2500

2550

2600



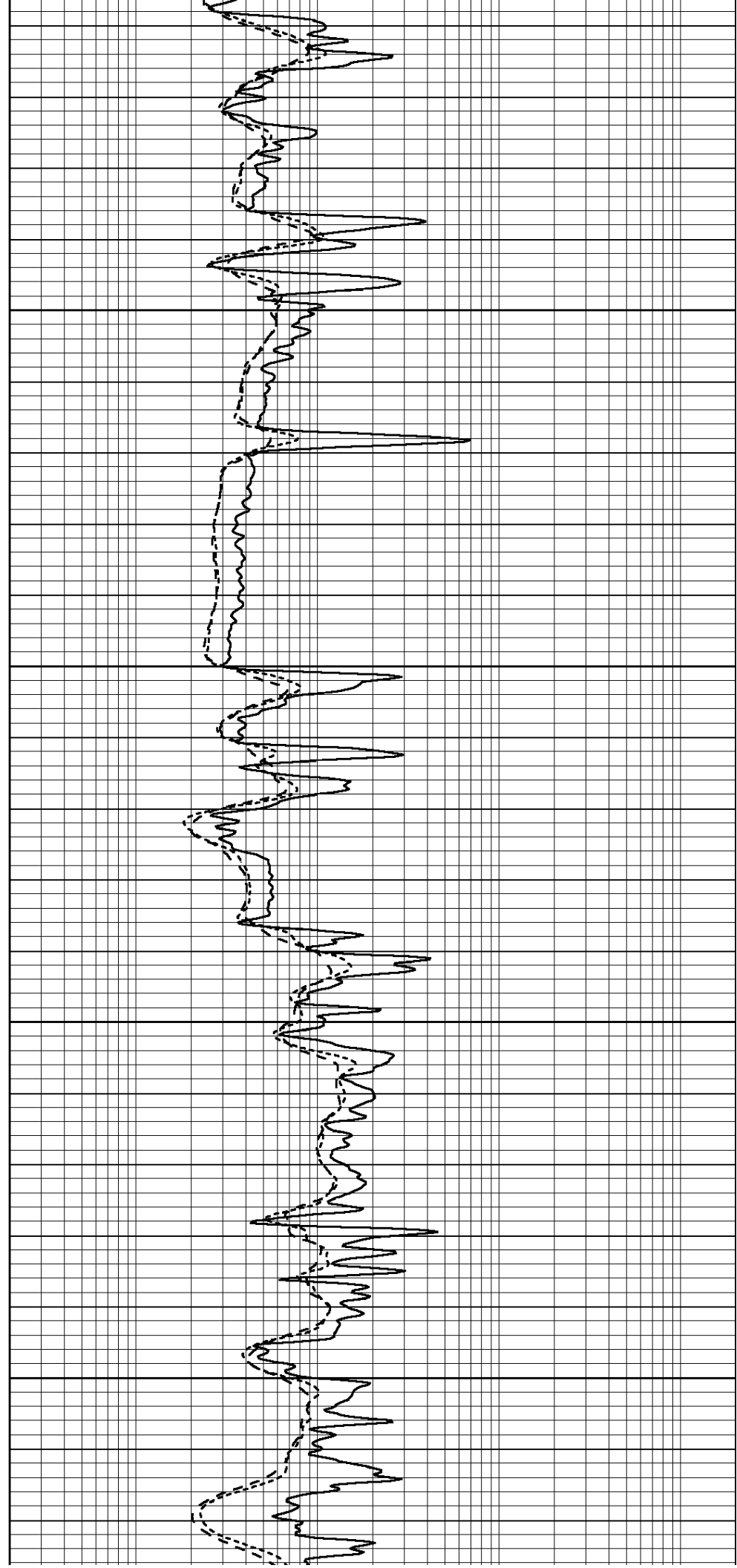


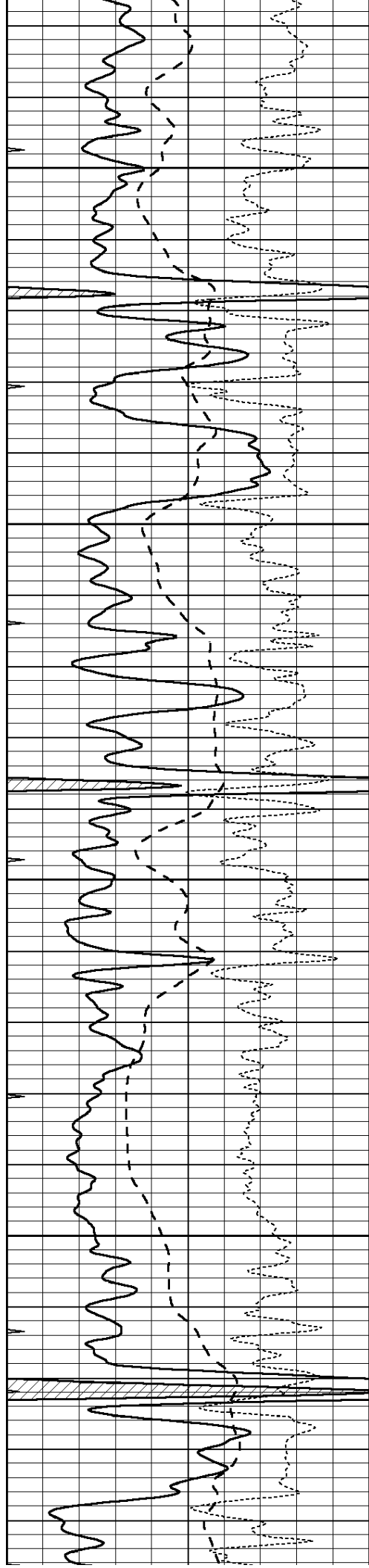
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2700

2750

2800



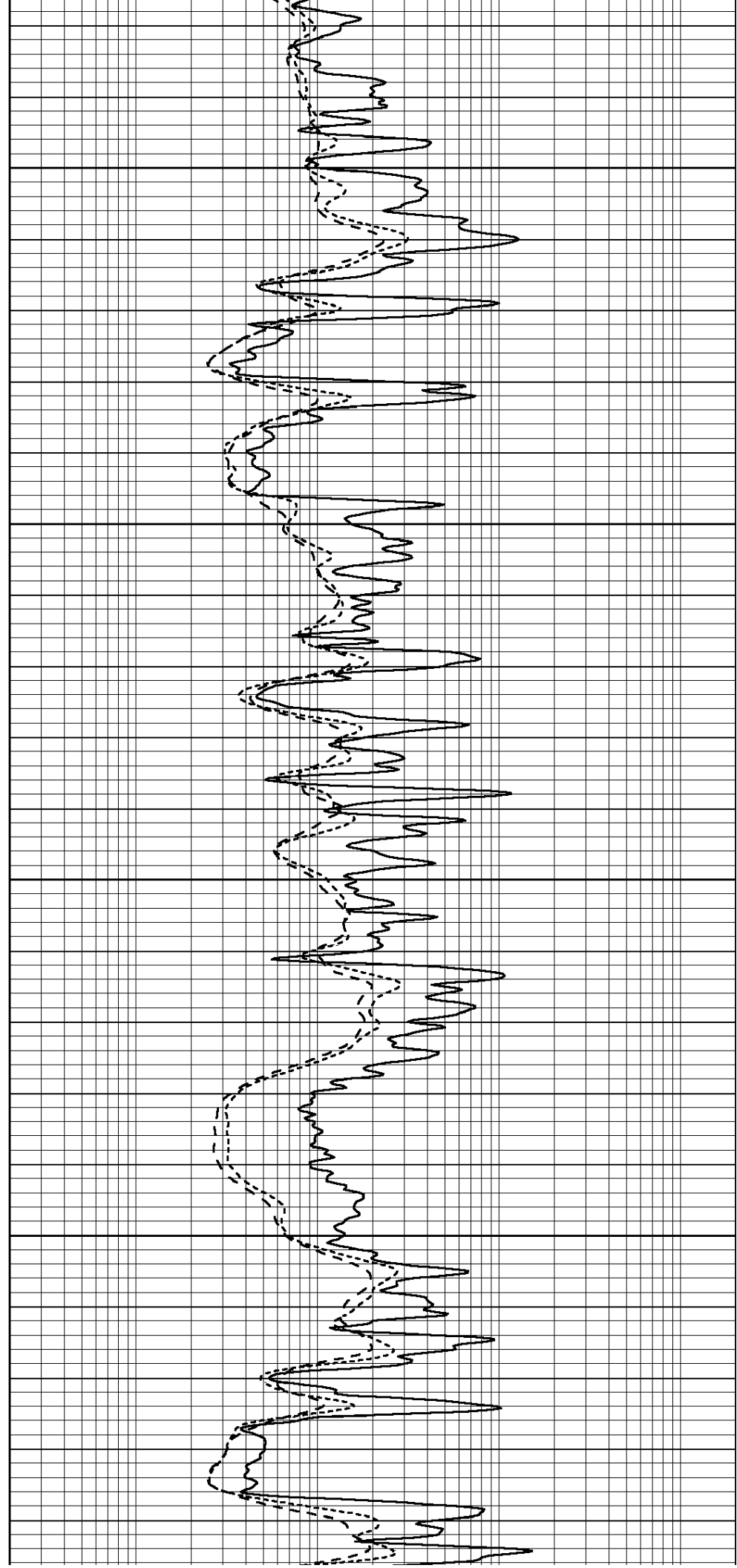


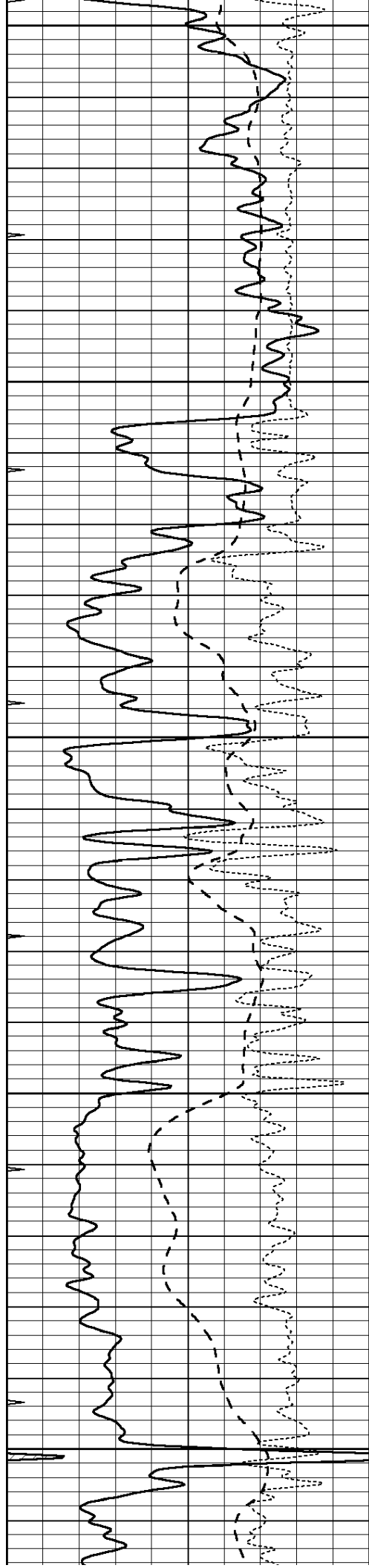
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2900

2950

3000





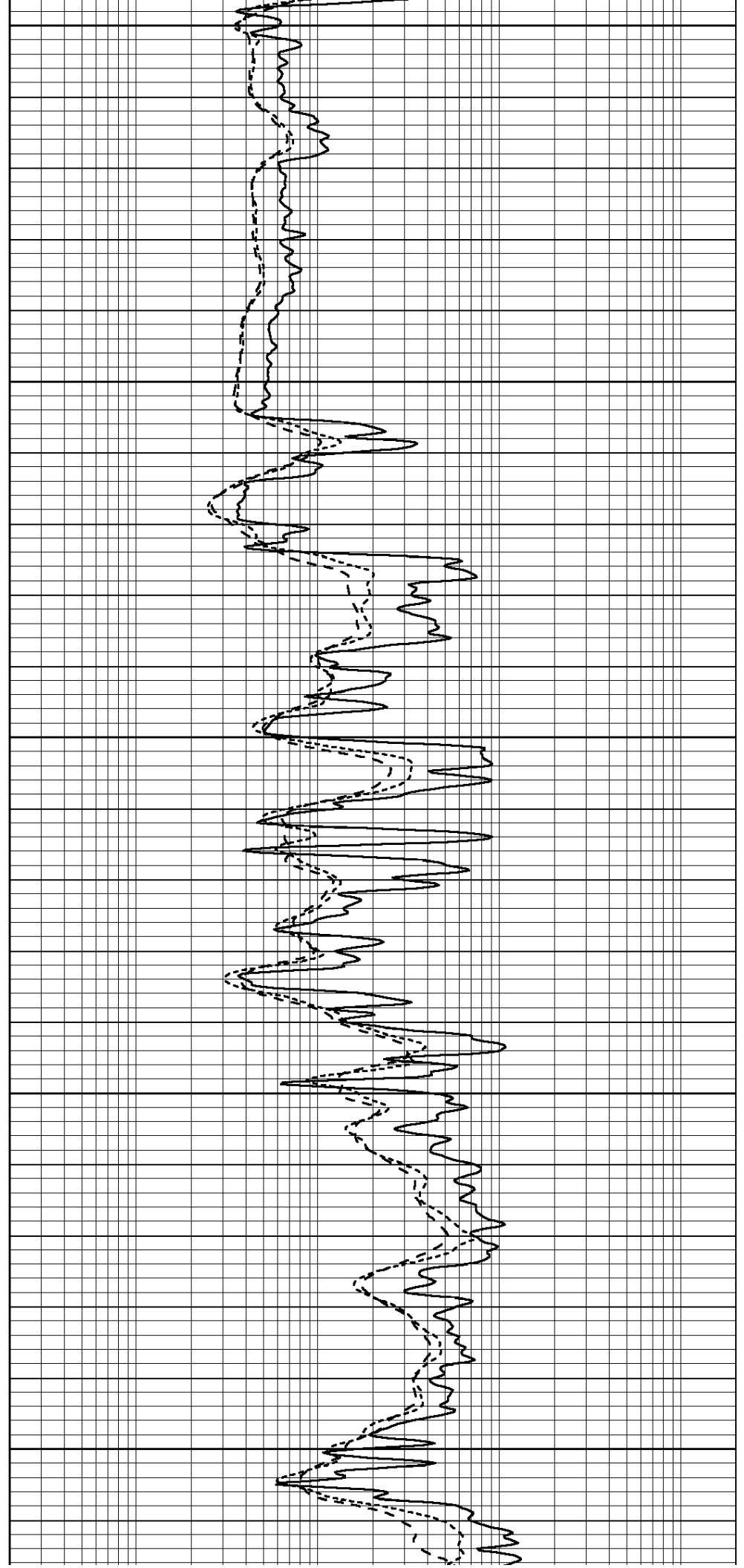
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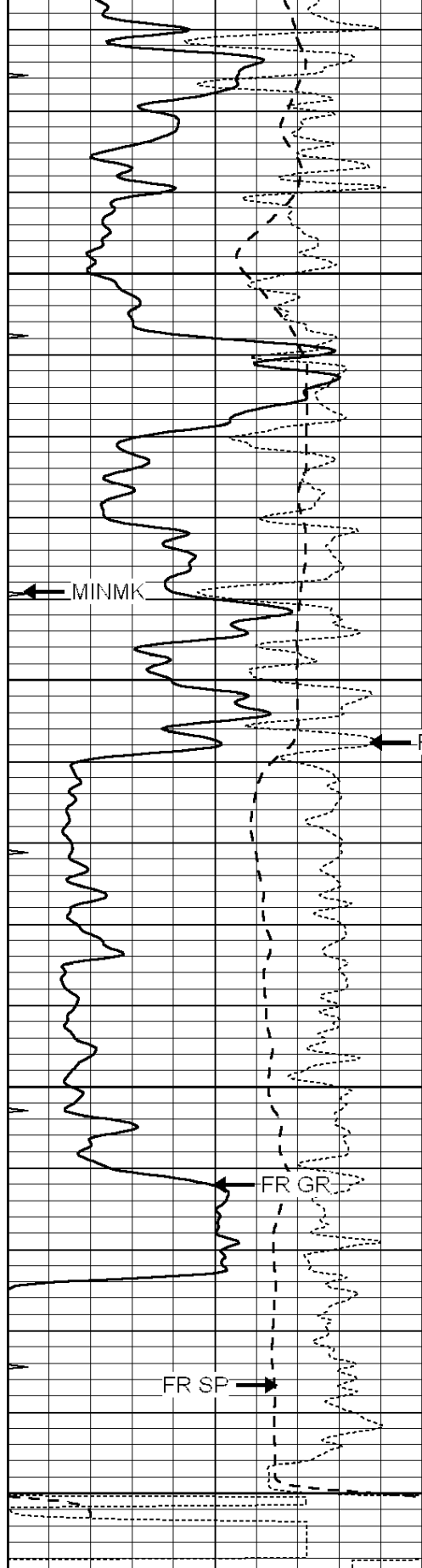
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3150

3200

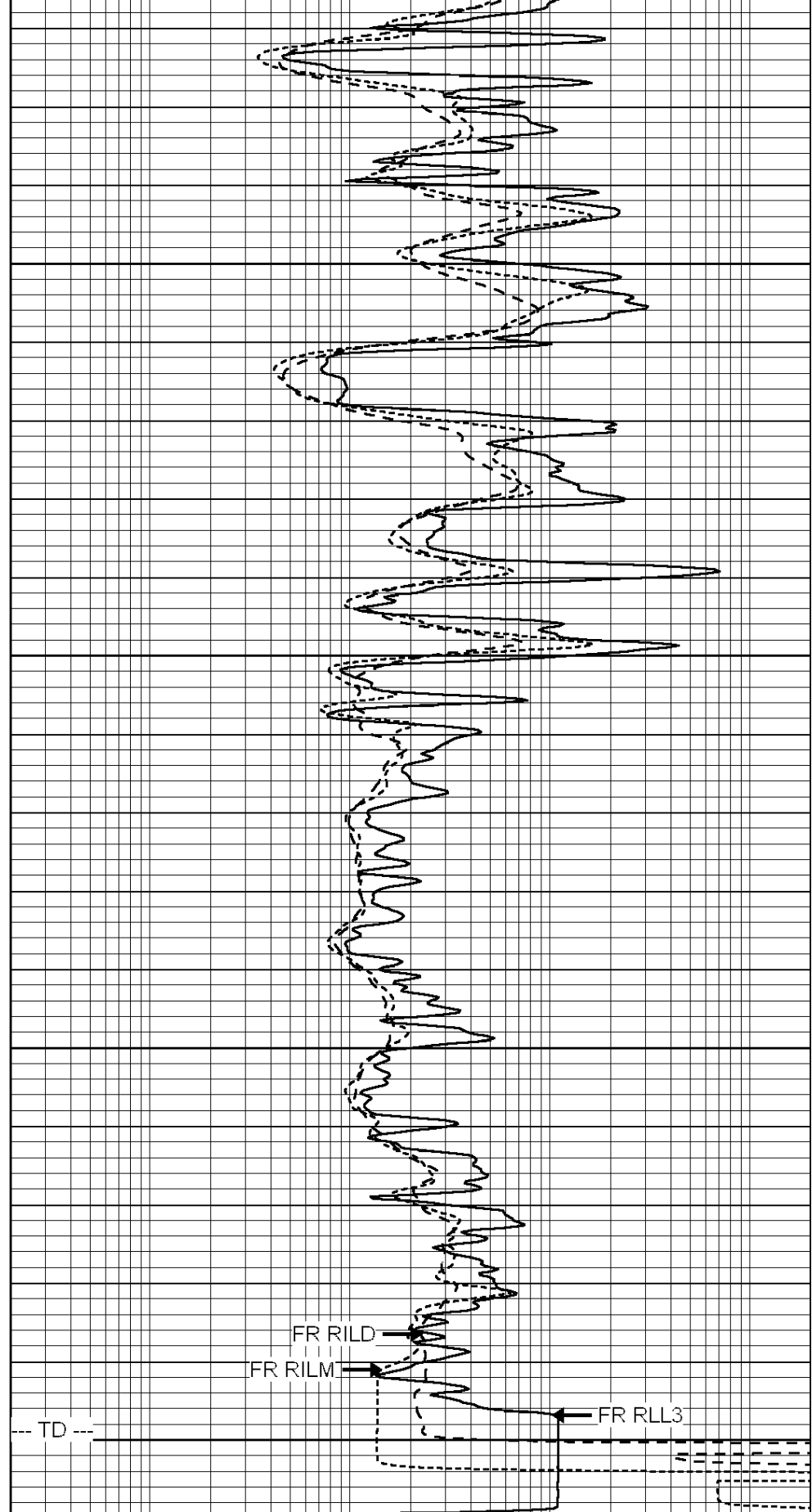
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

3300
3350
3400
3450



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

FR RILD
FR RILM
FR RLL3
TD

FR SP

FR GR

RxoRt

MINMK



SUPERIOR

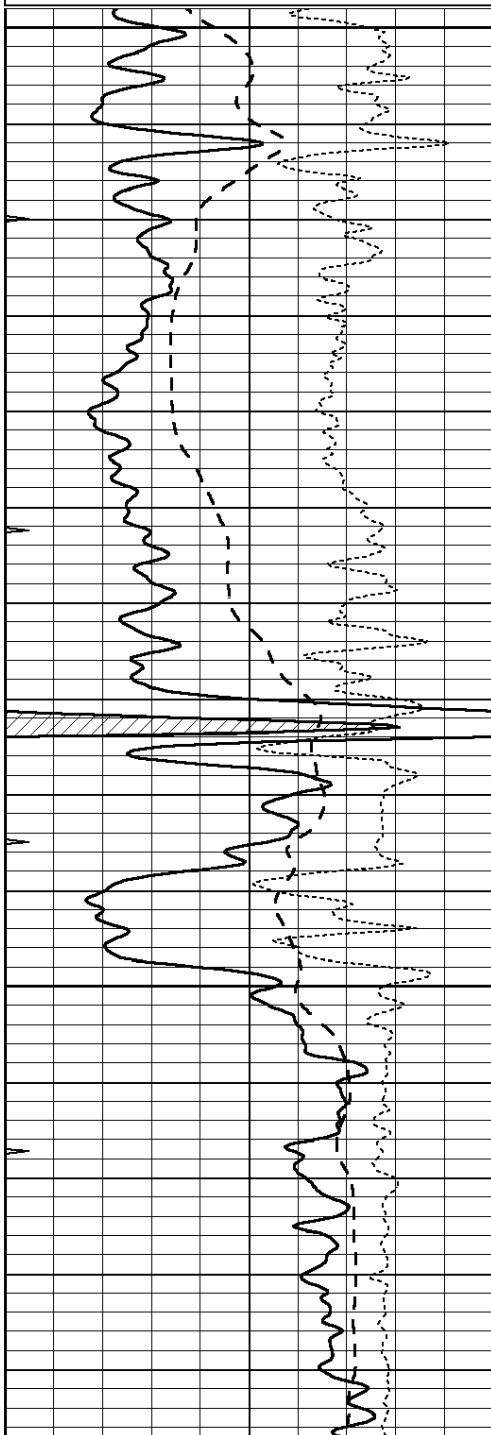
Hays,
Kansas

REPEAT SECTION

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 Dataset Creation: Tue Dec 13 16:19:30 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

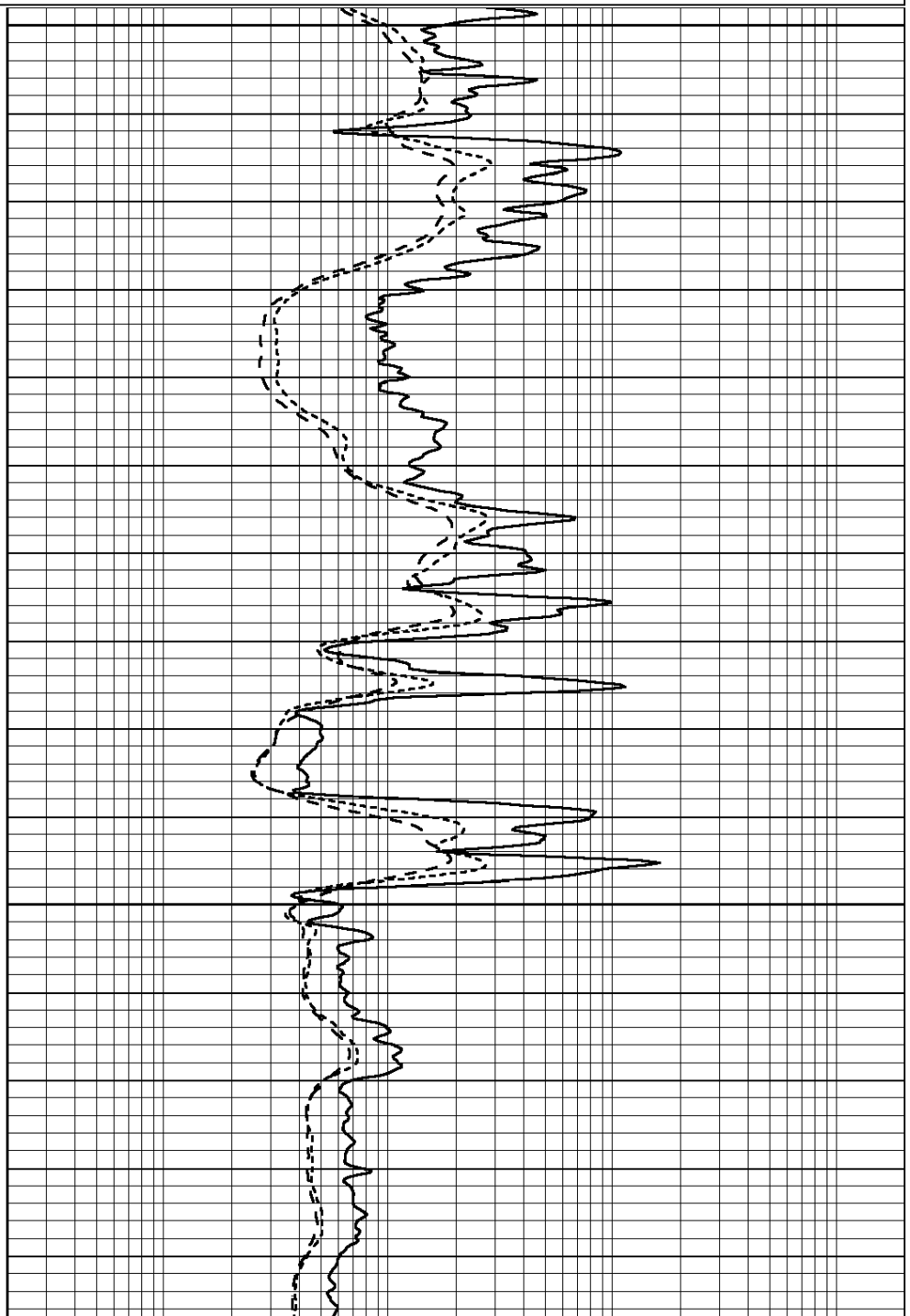
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0.2	MEDIUM INDUCTION (Ohm-m)	2000

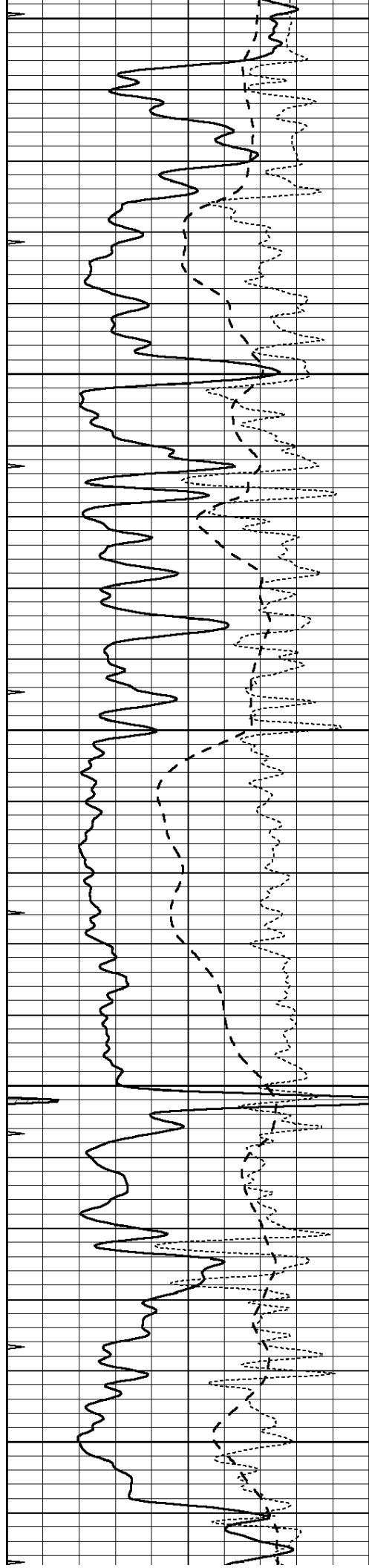


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3000

3050





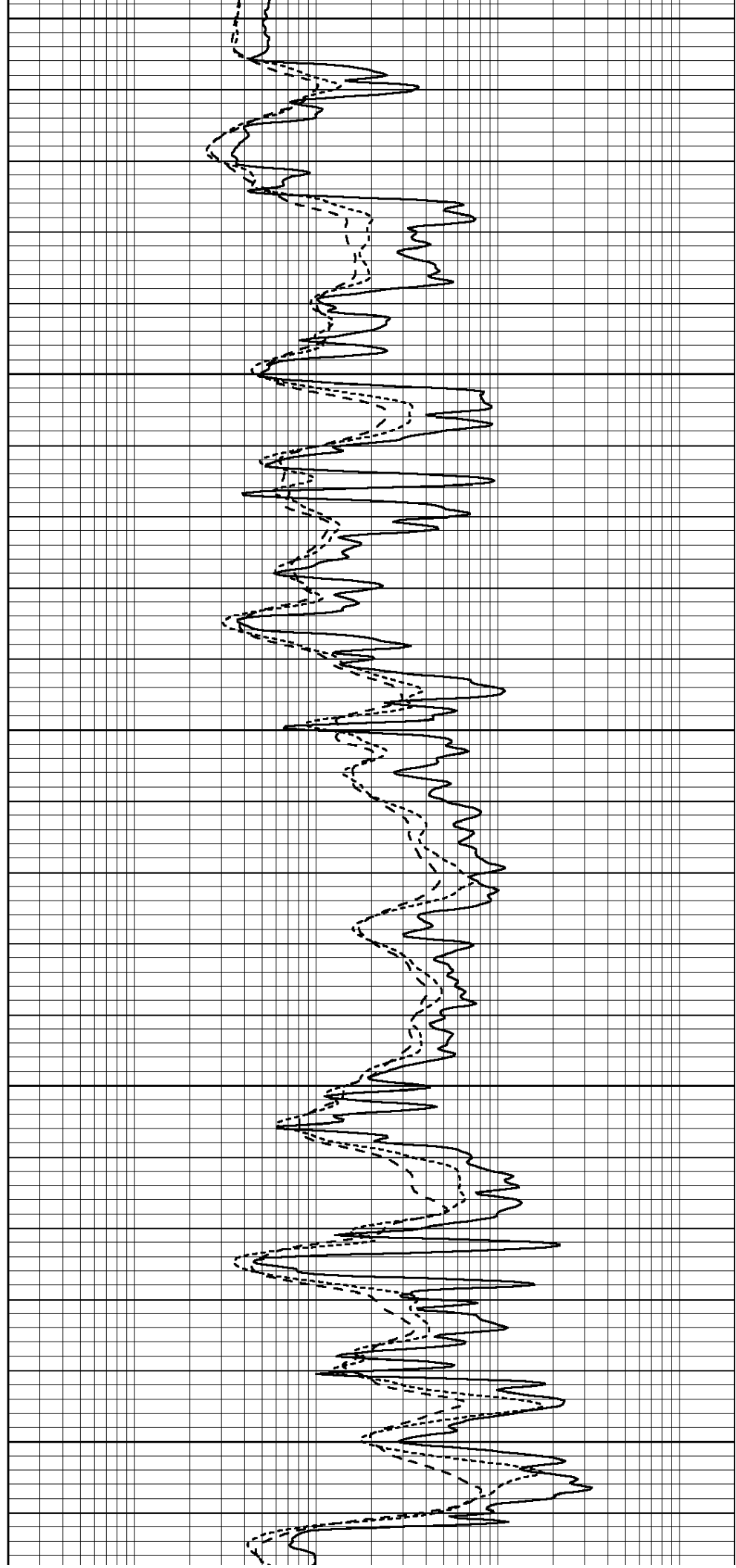
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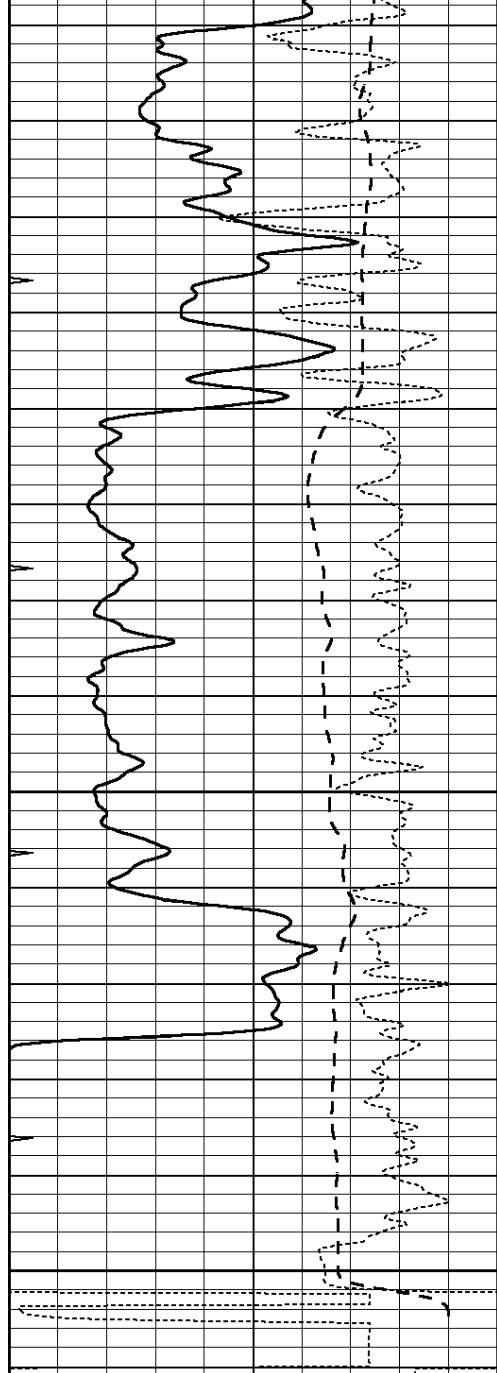
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3200

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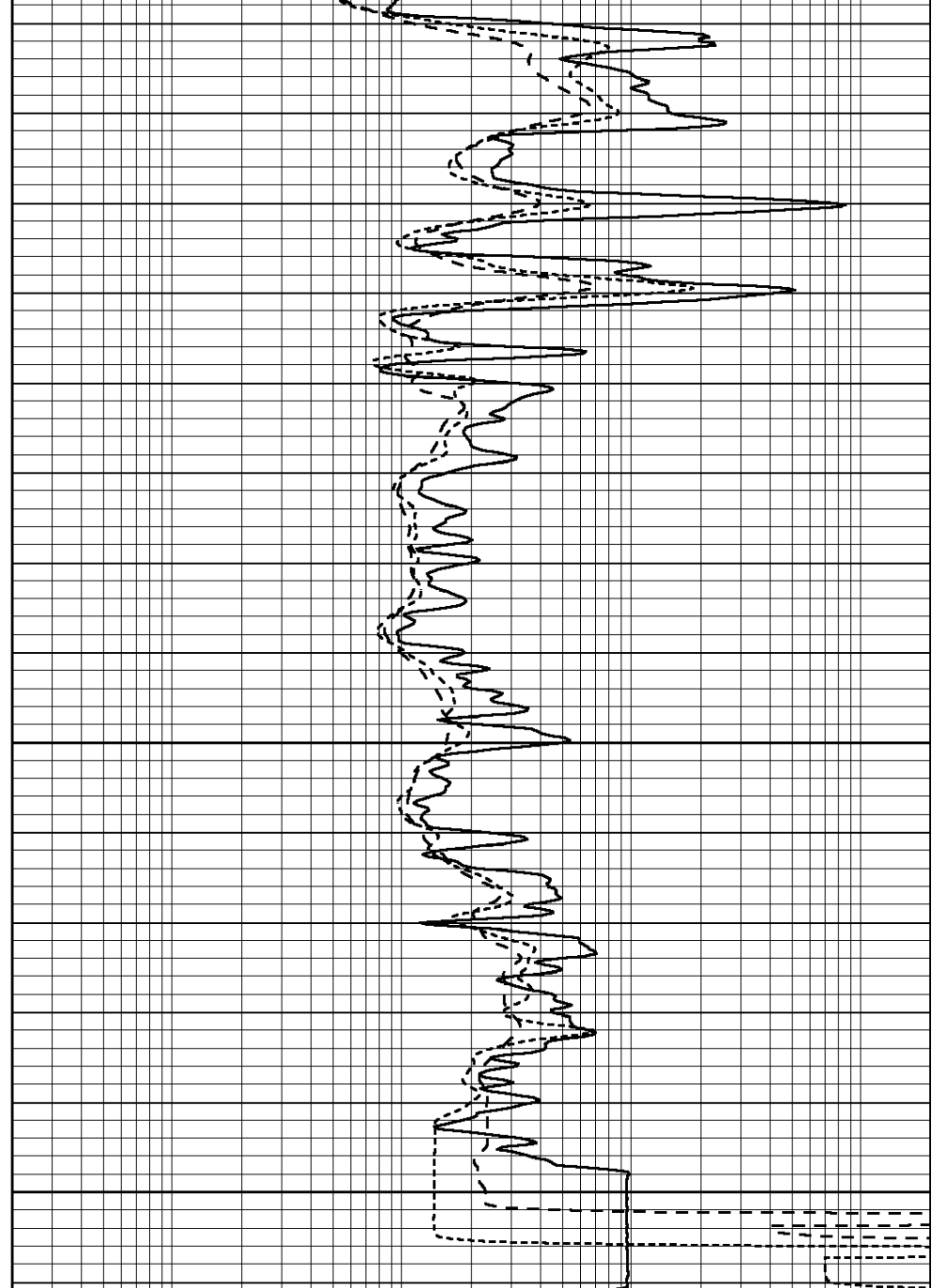
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

3350
3400
3450



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

Calibration Report

Database File: 001214ddn.db
 Dataset Pathname: pass2.1A
 Dataset Creation: Tue Dec 13 16:19:30 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Tue Dec 13 14:50:27 2011

Readings		References		Results	
Loop:	Air	Loop	Air	m	b

Deep	0.004	0.654	V	0.000	400.000	mmho/m	520.000	-16.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	550.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Tue Dec 13 14:50:14 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.590	g/cc	282.16	435.01	cps
Spine Angle = 76.03			Density/Spine Ratio = 0.576		
	Size		Reading		
Small Ring	8.50	in	3.47	V	
Large Ring	14.00	in	5.80	V	

Compensated Neutron Calibration Report

Serial Number: NUE_2I
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: GR5
Tool Model: OPEN
Performed: Tue Dec 13 14:49:50 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps



SUPERIOR

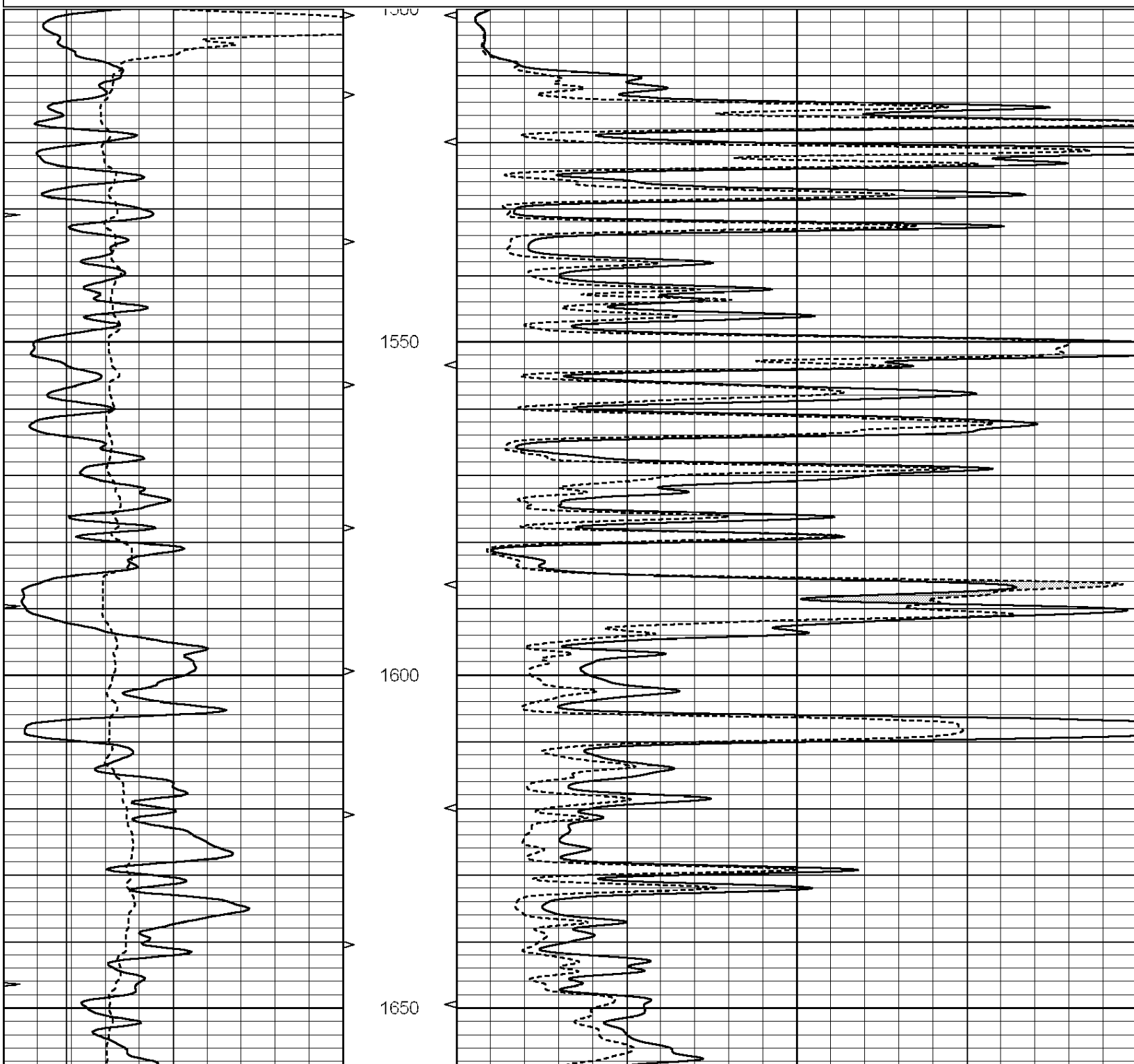
Hays,
Kansas

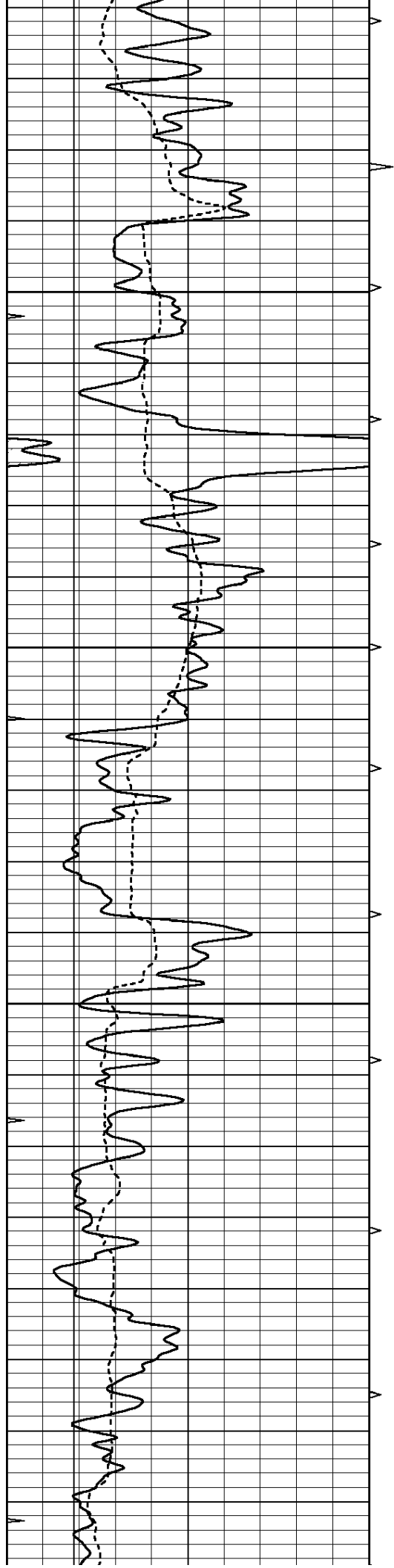
MAIN SECTION

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0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

0	MEL1.5 (Ohm-m)	20
0	MEL2.0 (Ohm-m)	20



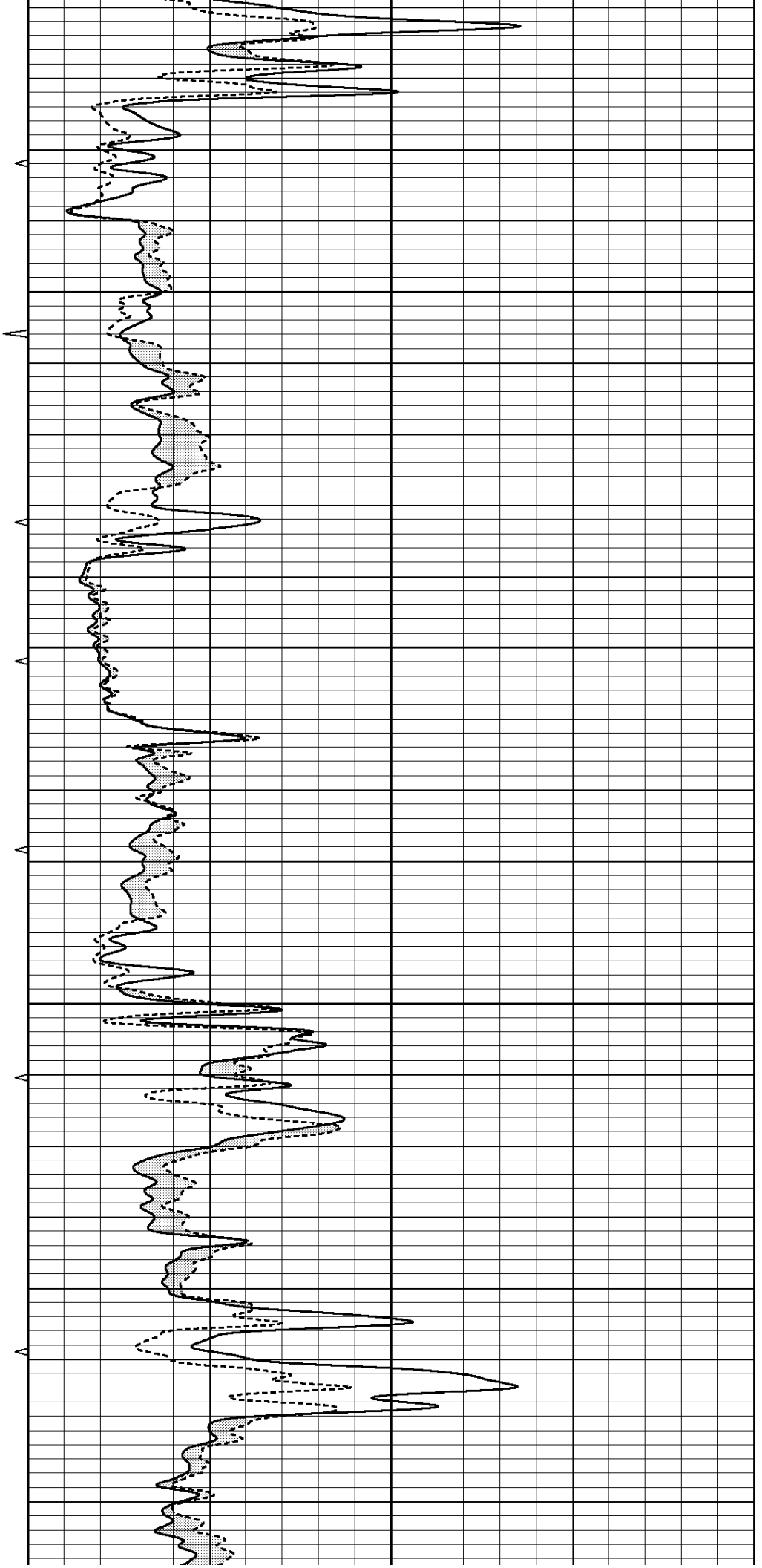


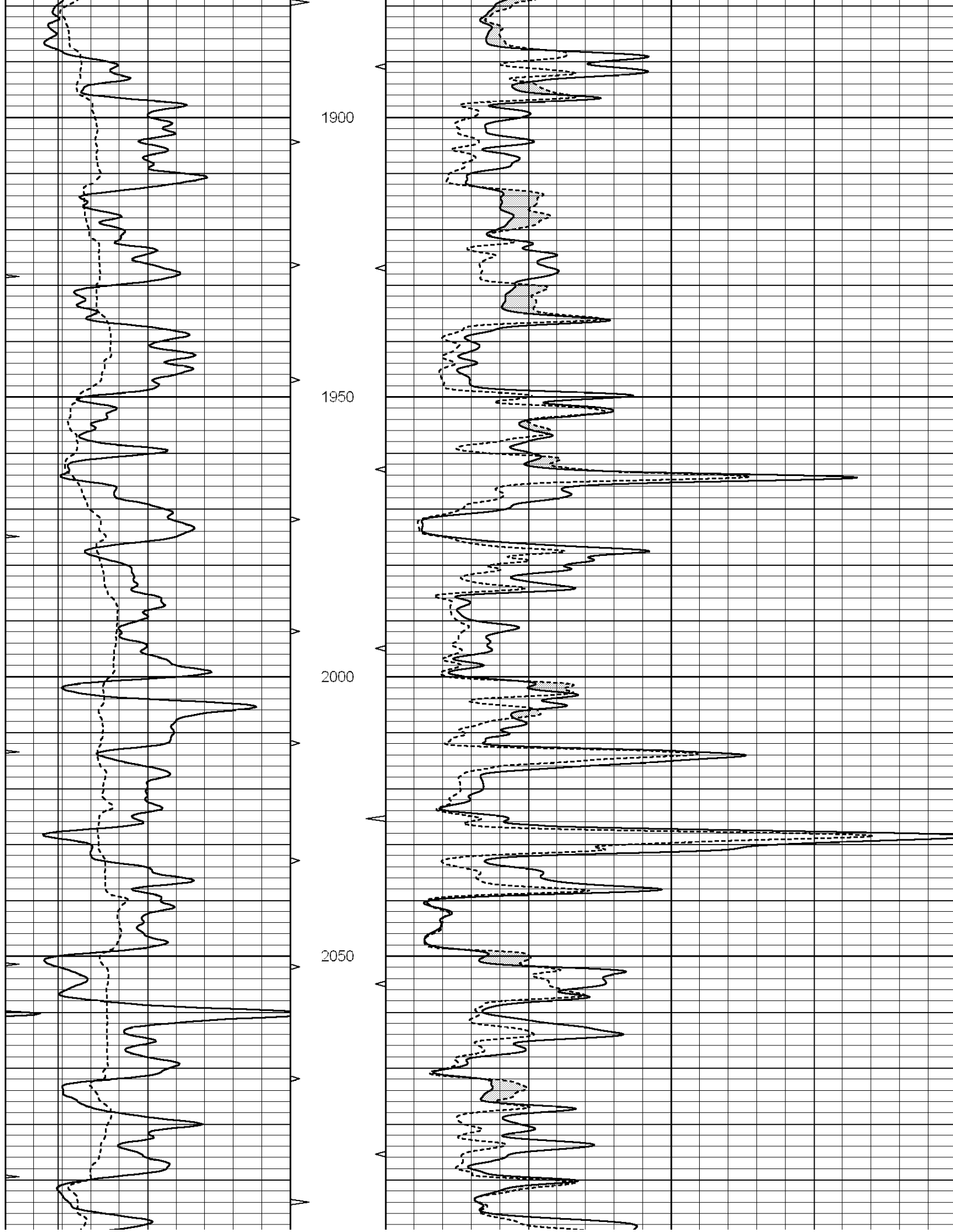
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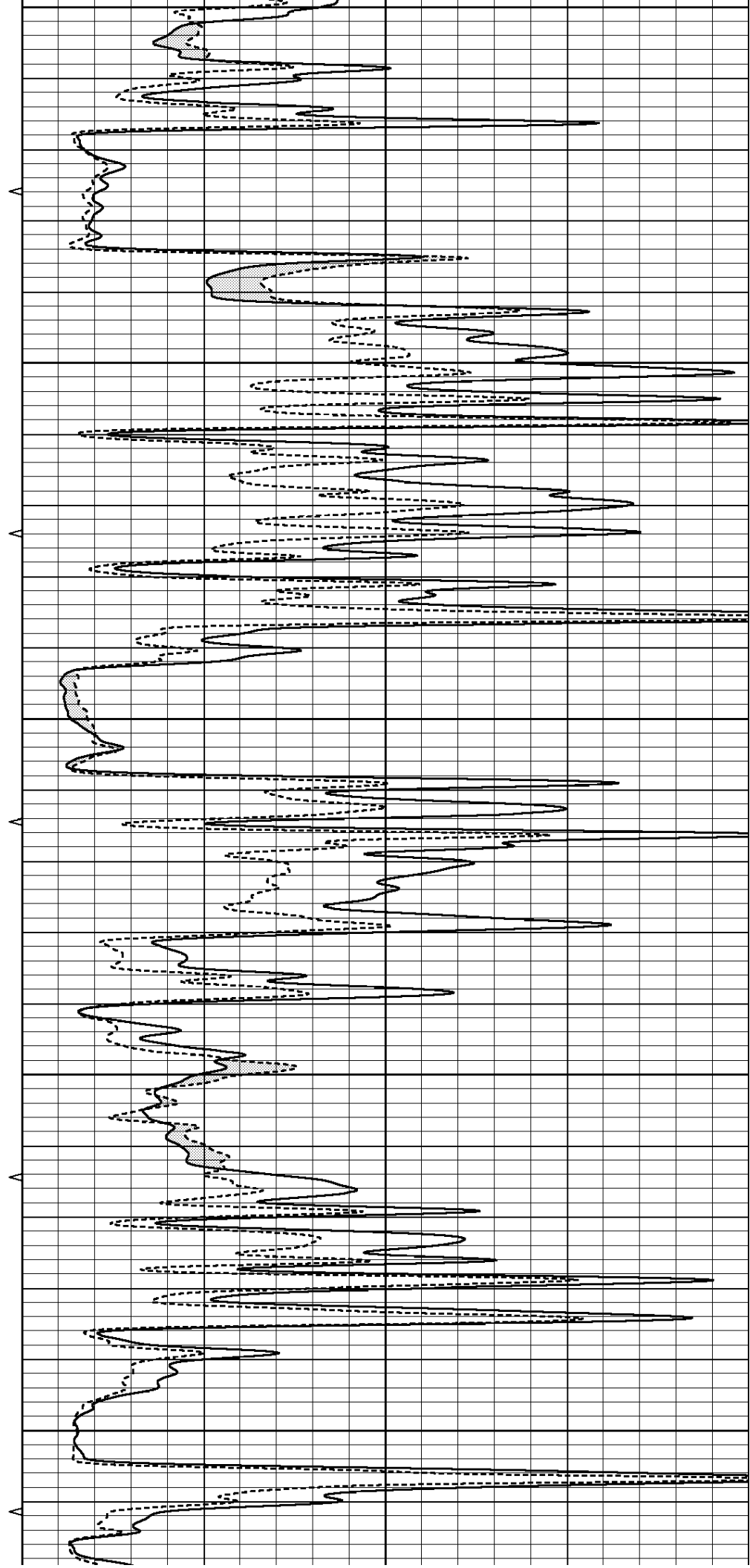
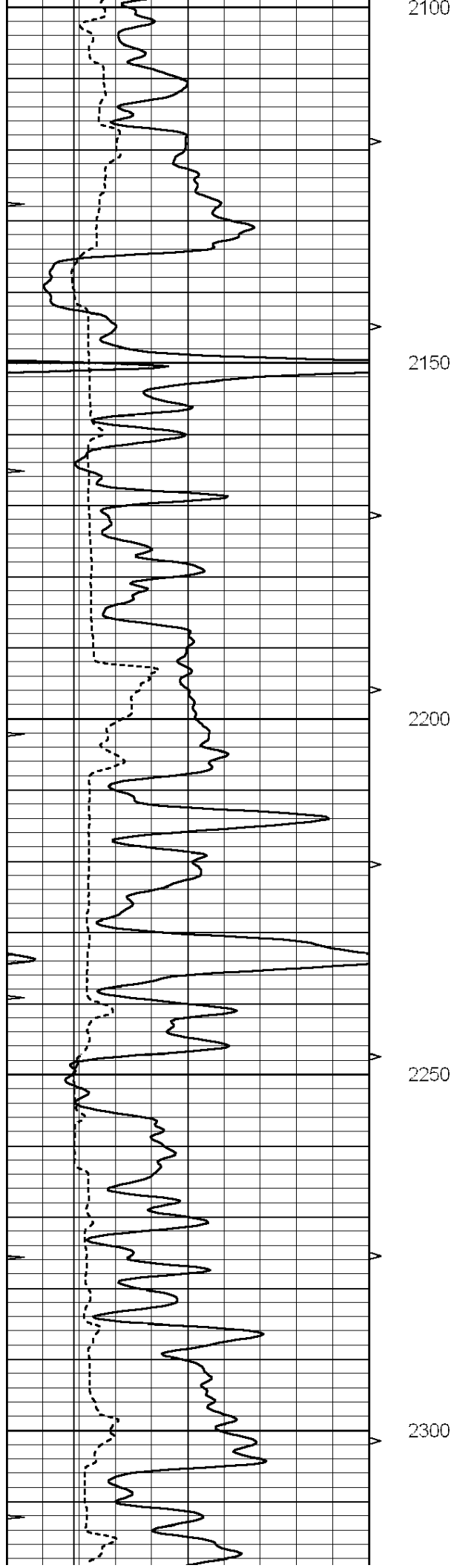
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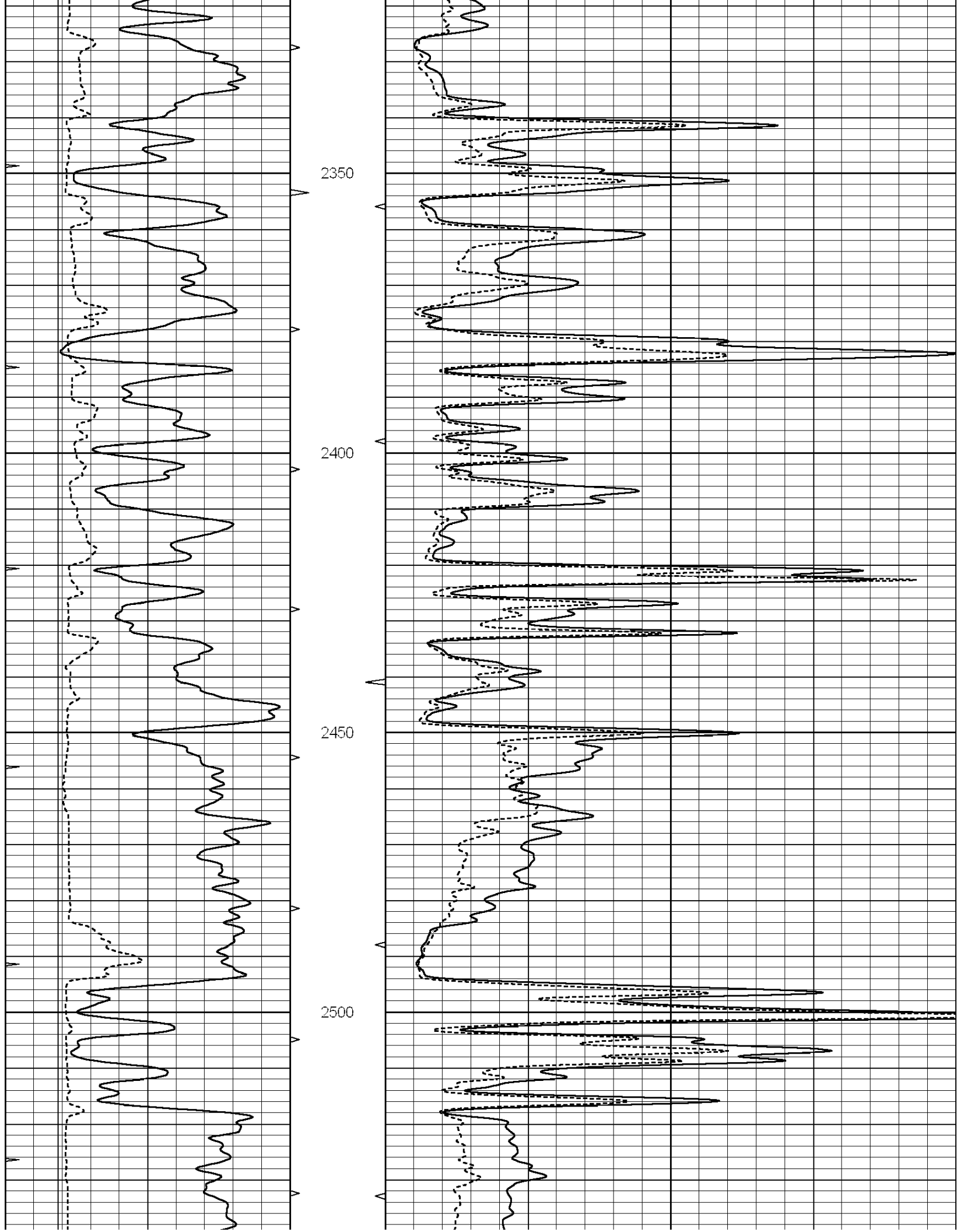
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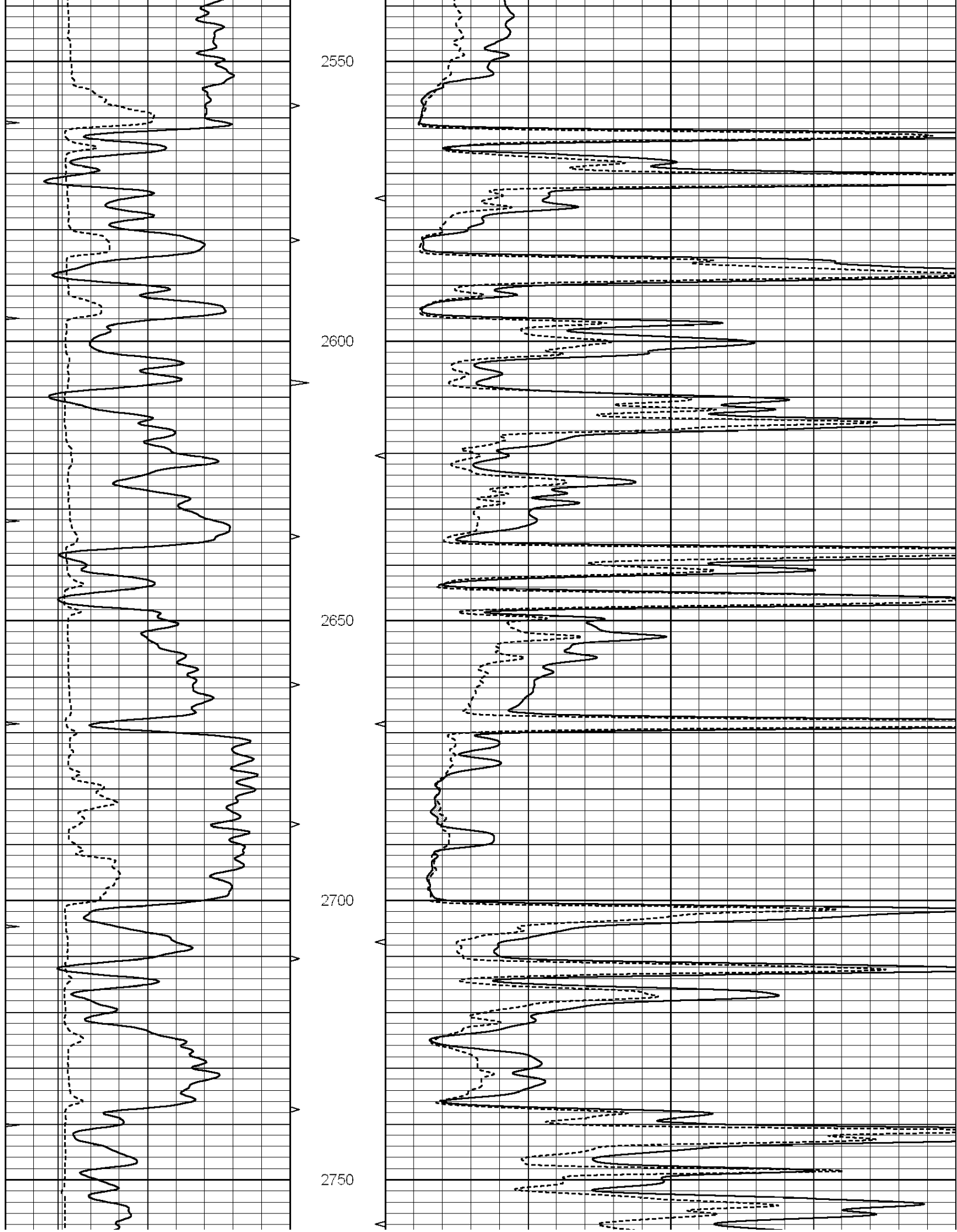
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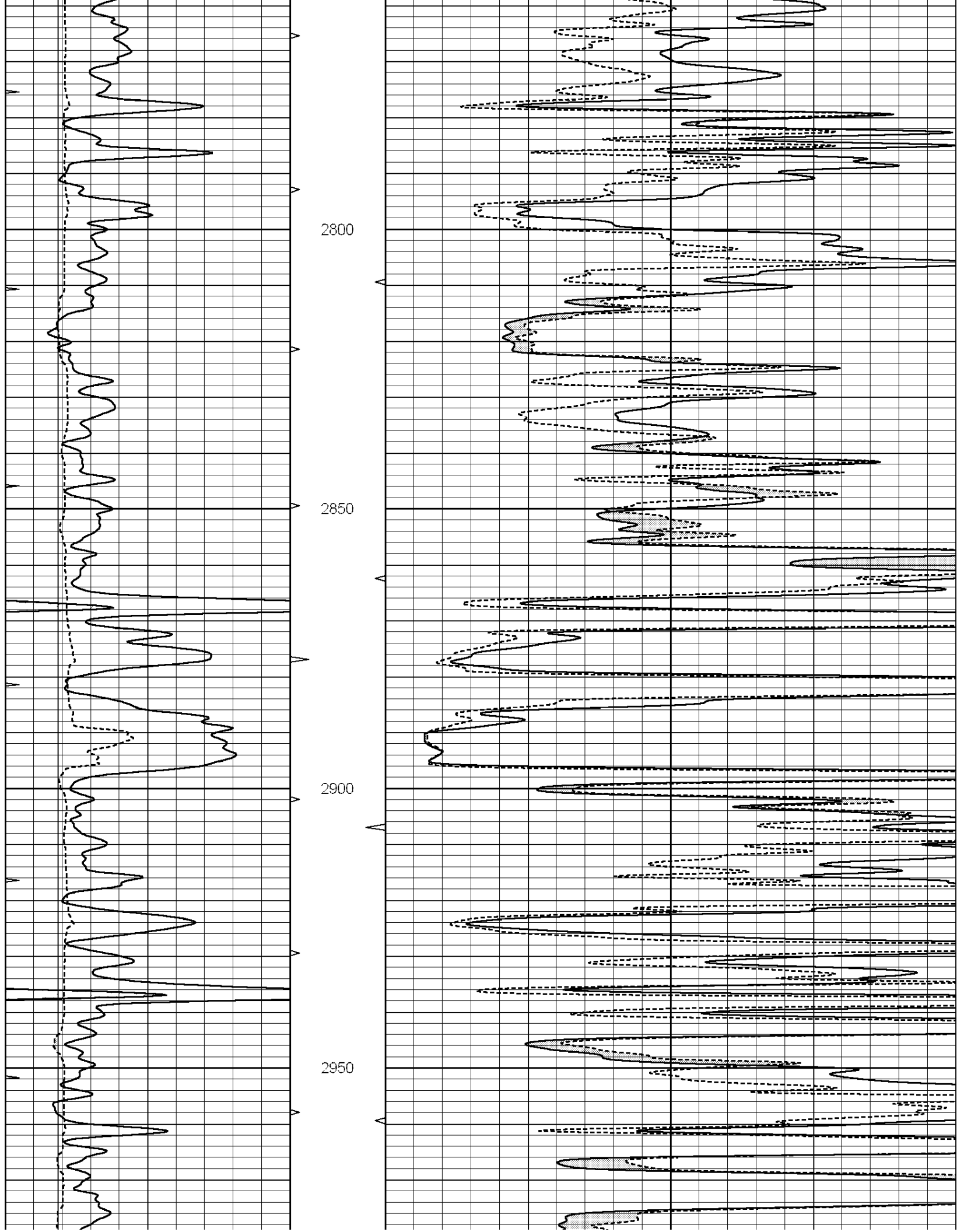


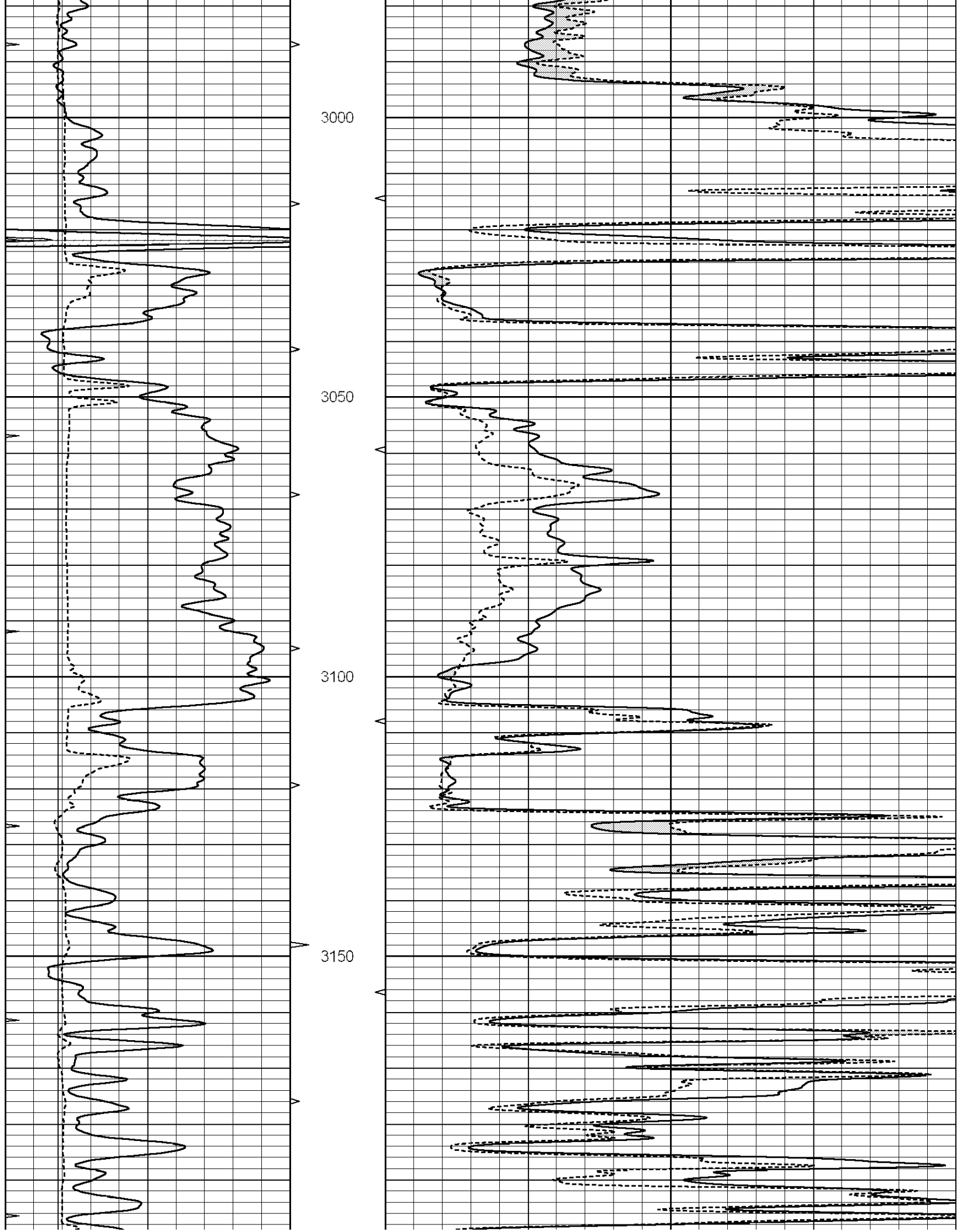


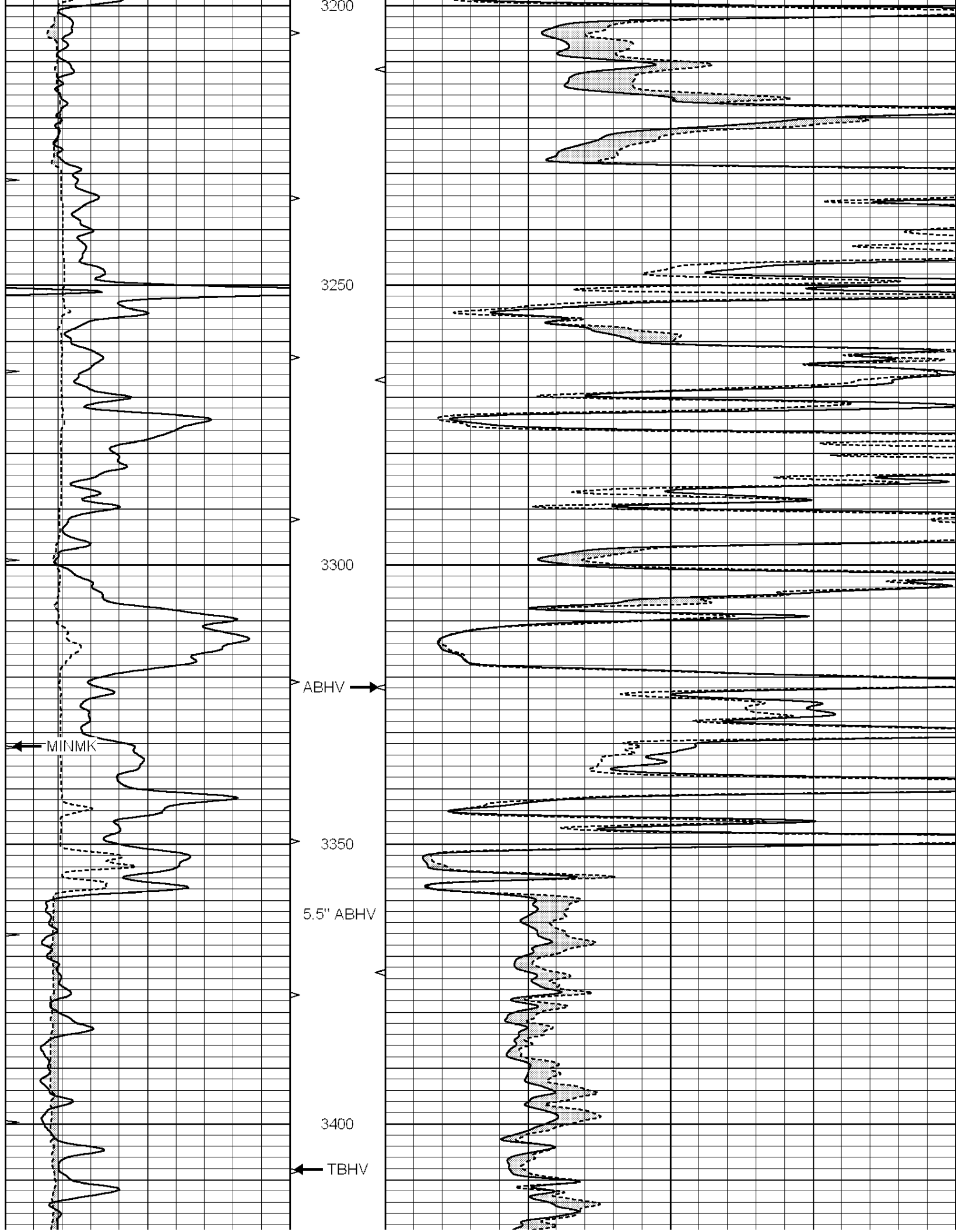


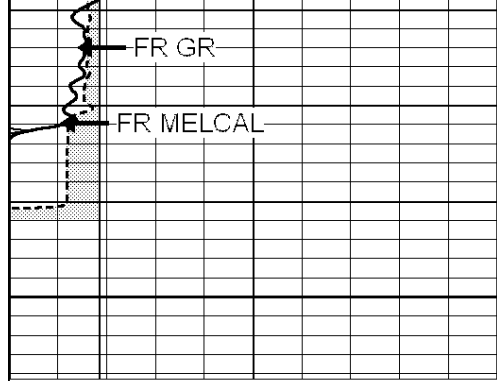




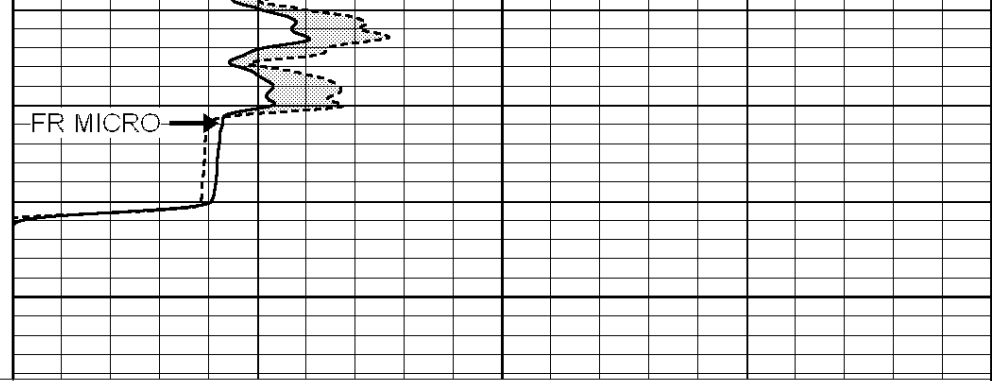






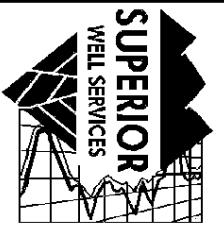


3450



0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

0	MEL1.5 (Ohm-m)	20
0	MEL2.0 (Ohm-m)	20



**SUPERIOR
Hays,
Kansas**

**DUAL
INDUCTION
LOG**

Company CAERUS KANSAS, LLC.
Well HOFFMAN RANCH #23-23
Field HOISINGTON EAST
County BARTON State KANSAS

Company CAERUS KANSAS, LLC.
Well HOFFMAN RANCH #23-23
Field HOISINGTON EAST
County BARTON
State KANSAS

Location: API #: 15-009-25639
1795' FSL & 1814' FWL
SEC 123 TWP 17S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1856
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
SONIC/MEL
Elevation
K.B. 1865
D.F.
G.L. 1856

Date	12-13-11		
Run Number	ONE		
Depth Driller	3450		
Depth Logger	3449		
Bottom Logged Interval	3447		
Top Log Interval	00		
Casing Driller	820		
Casing Logger	820		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 45		
pH / Fluid Loss	9.5 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.65 @ 70F		
Rmf @ Meas. Temp	0.49 @ 70F		
Rmc @ Meas. Temp	0.78 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.420 @ 109F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2:30 P.M.		
Maximum Recorded Temperature	109F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	JEFF LAWLER	BRIAN KARLIN	

<<< Fold Here >>>

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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HOISINGTON DAIRY QUEEN, 2E, 2 1/2N, E INTO.



SUPERIOR
Hays,
Kansas

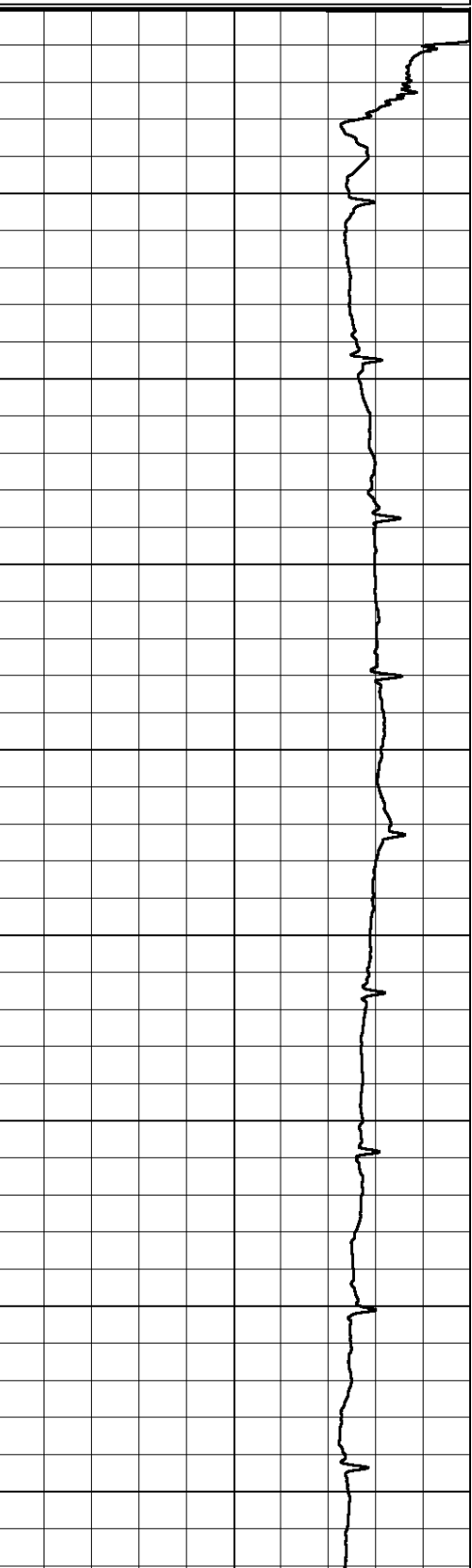
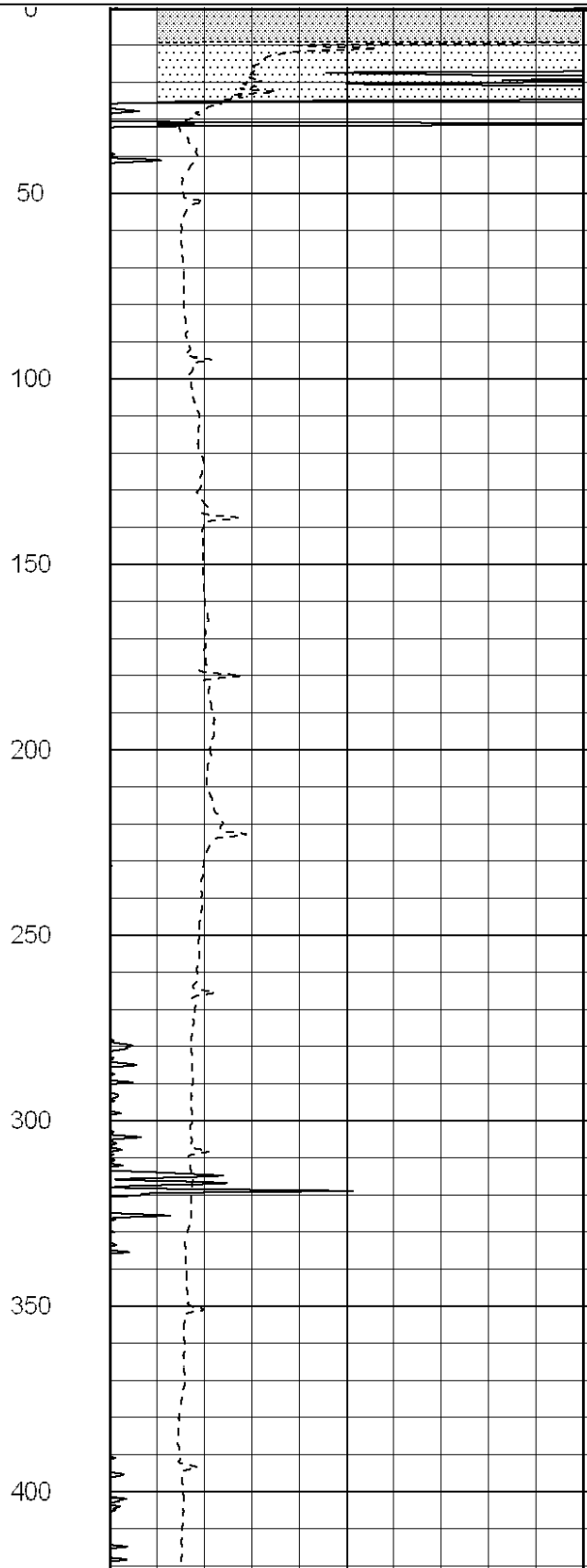
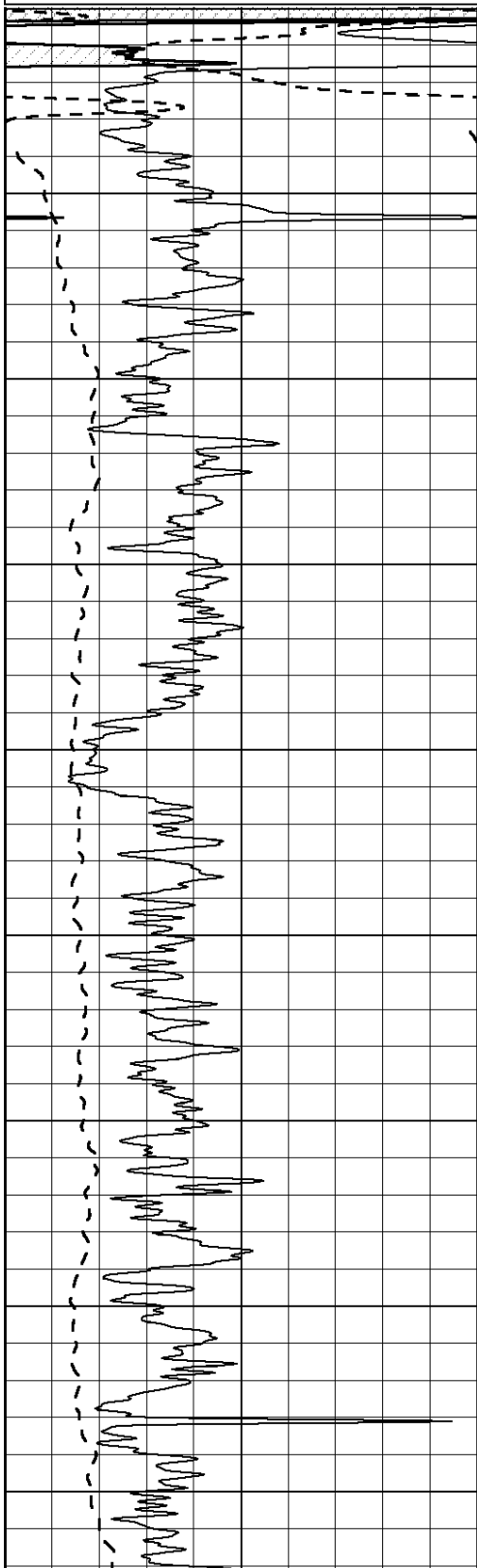
MAIN SECTION

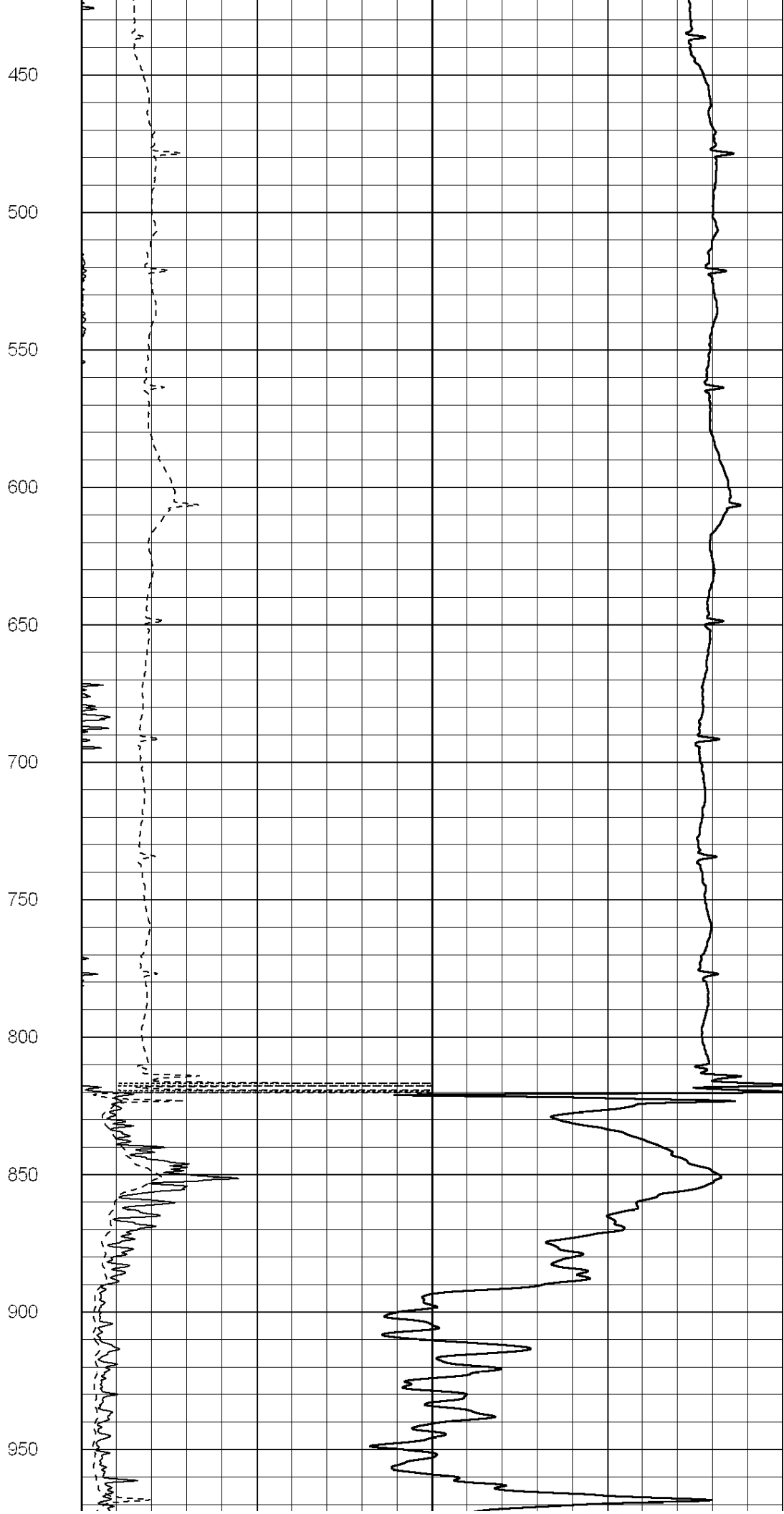
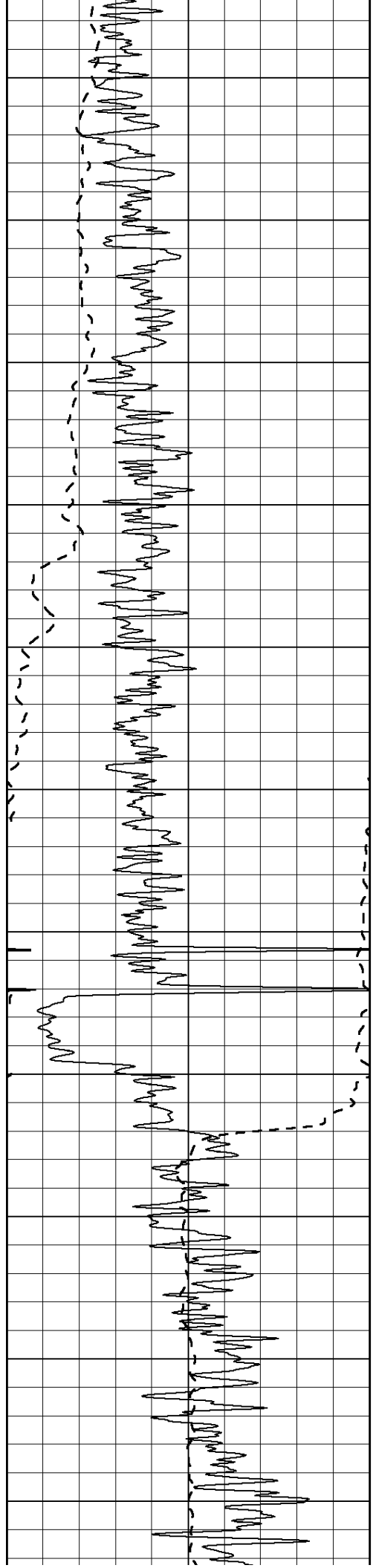
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 Presentation Format: dil2
 Dataset Creation: Tue Dec 13 16:26:17 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:600

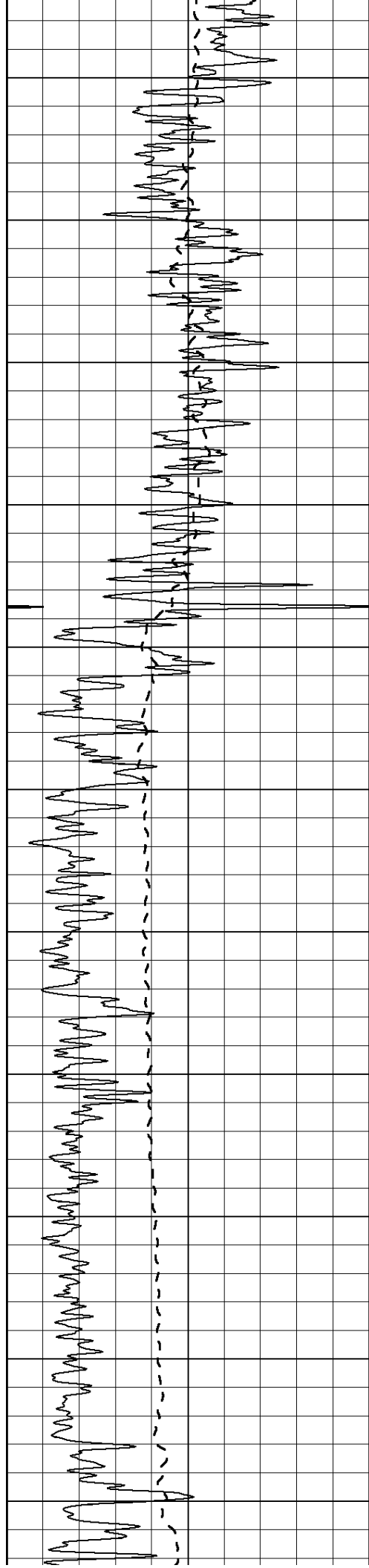
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-100	SP (mV)	100

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

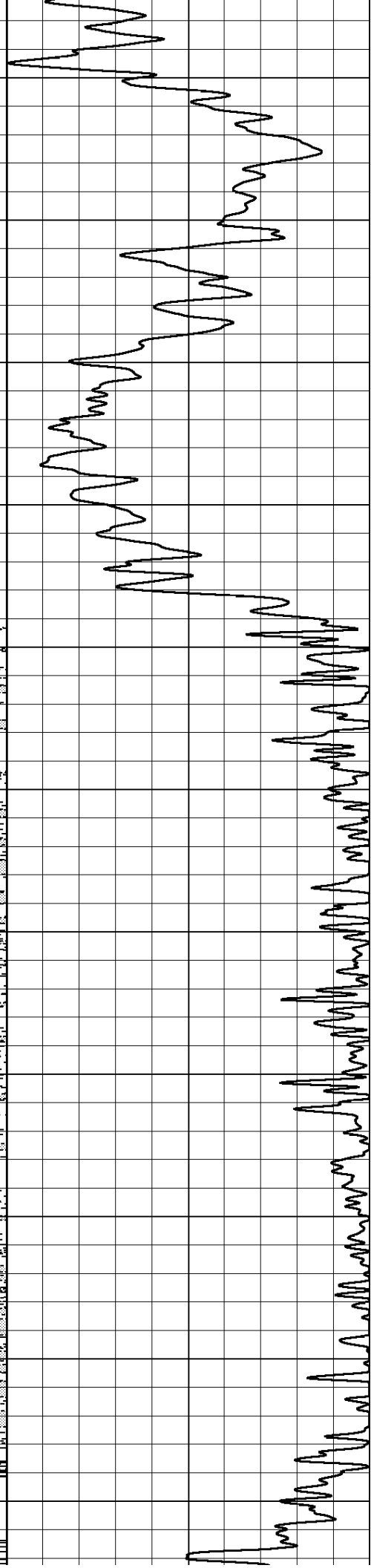
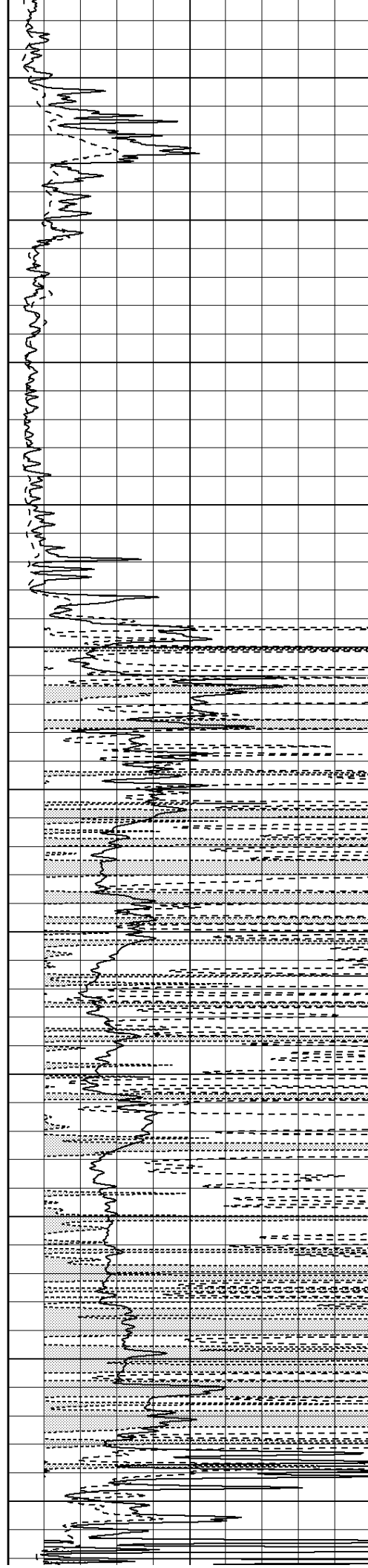
1000	CILD (mmho/m)	0
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500

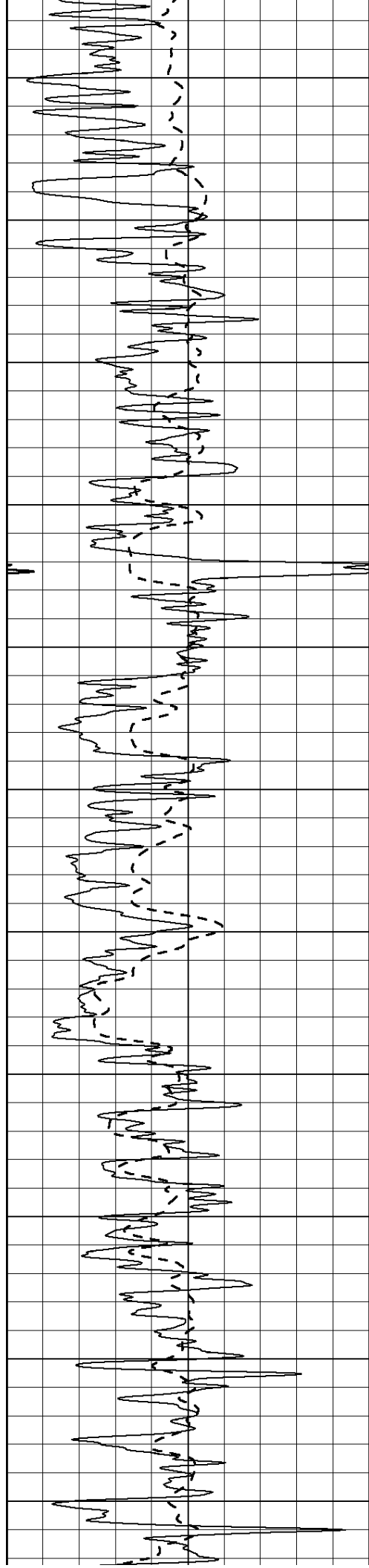






1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500





1550

1600

1650

1700

1750

1800

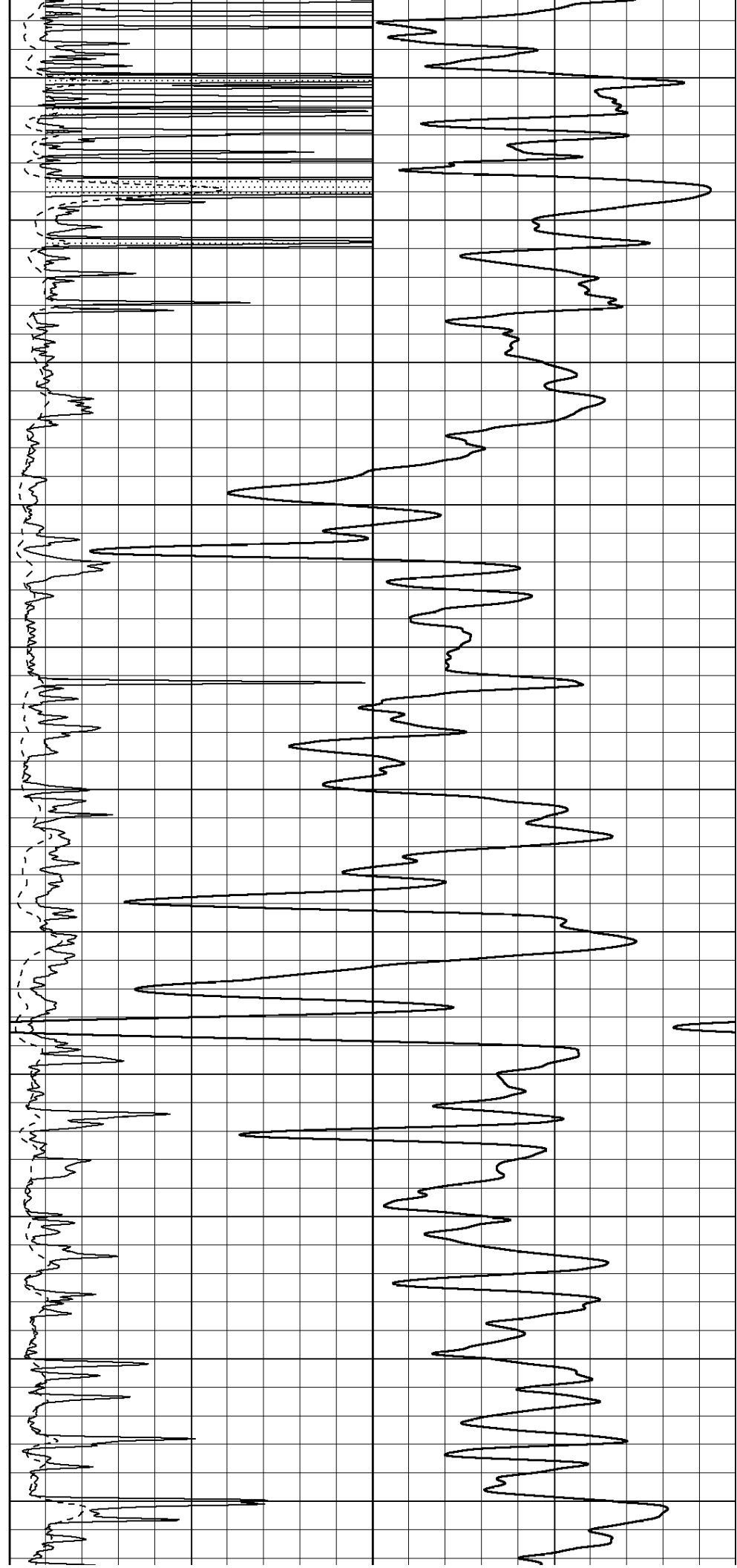
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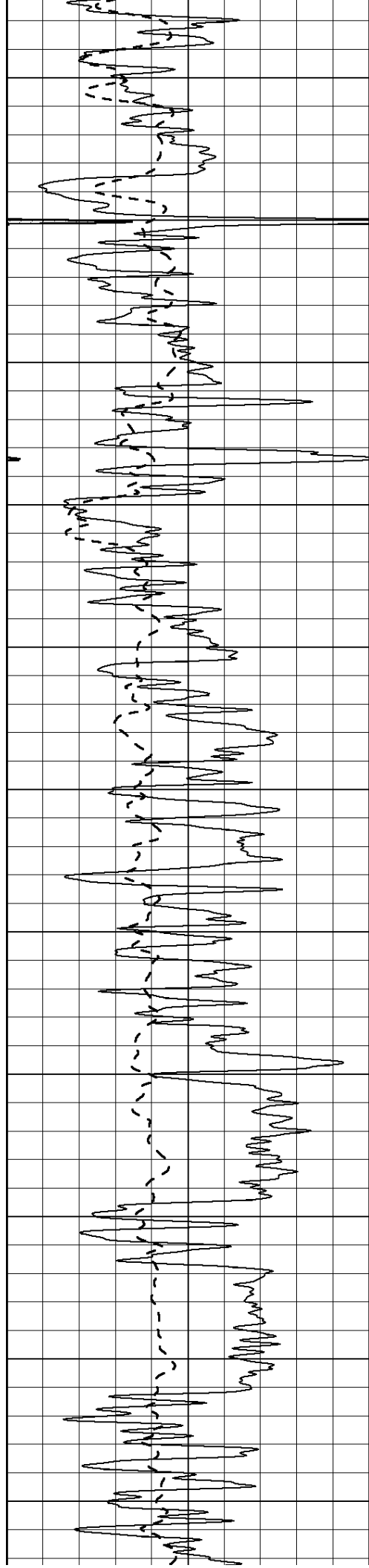
1900

1950

2000

2050





2100

2150

2200

2250

2300

2350

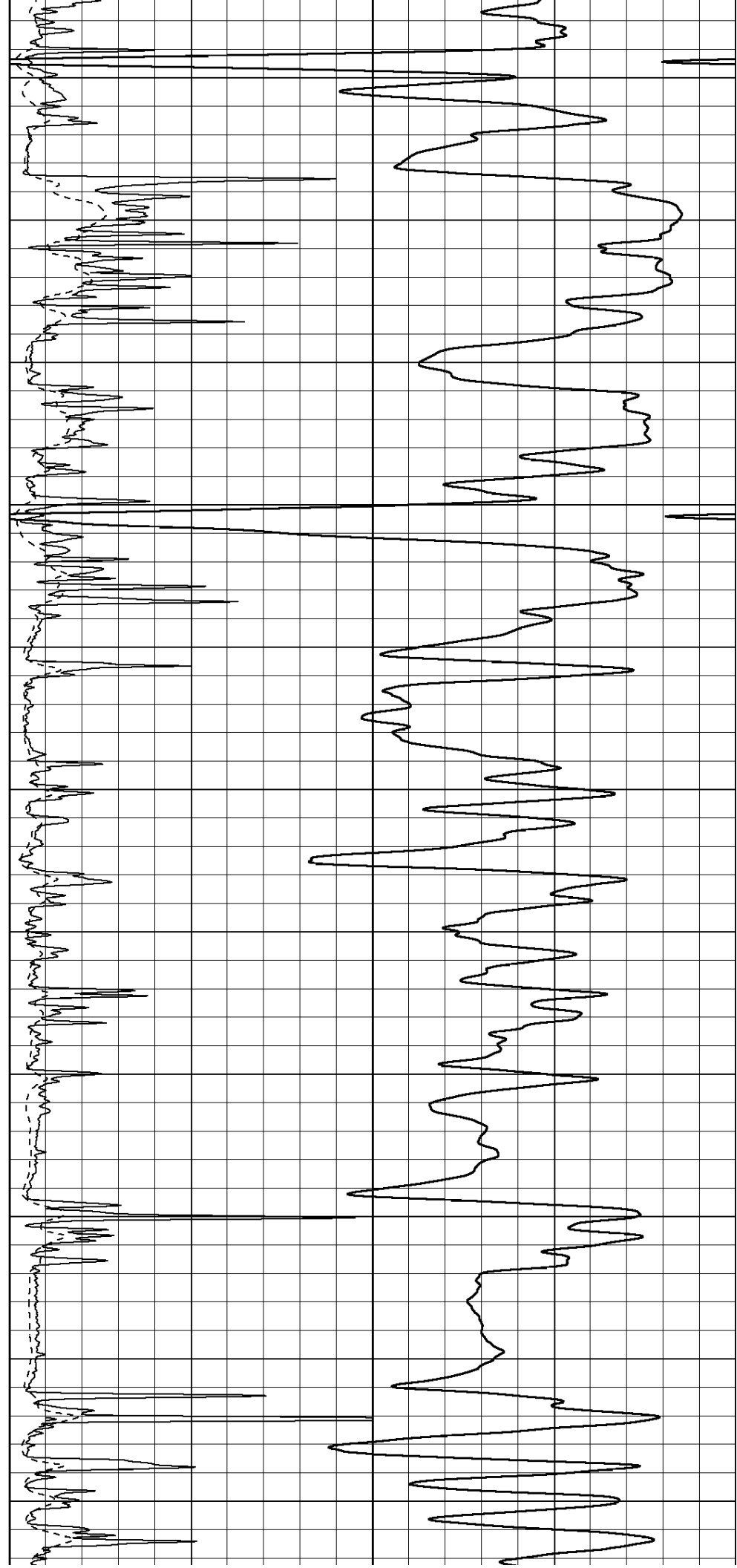
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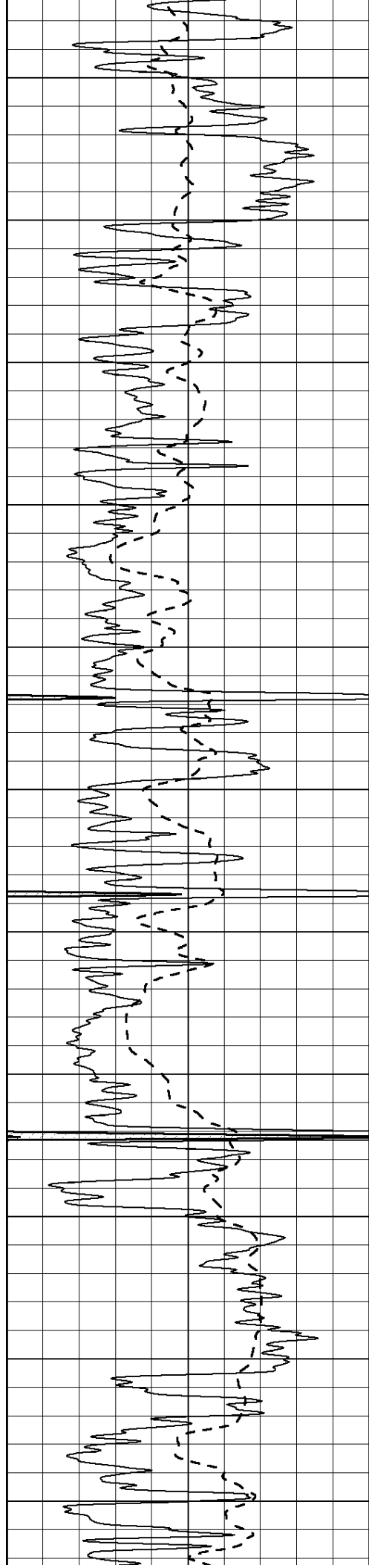
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2500

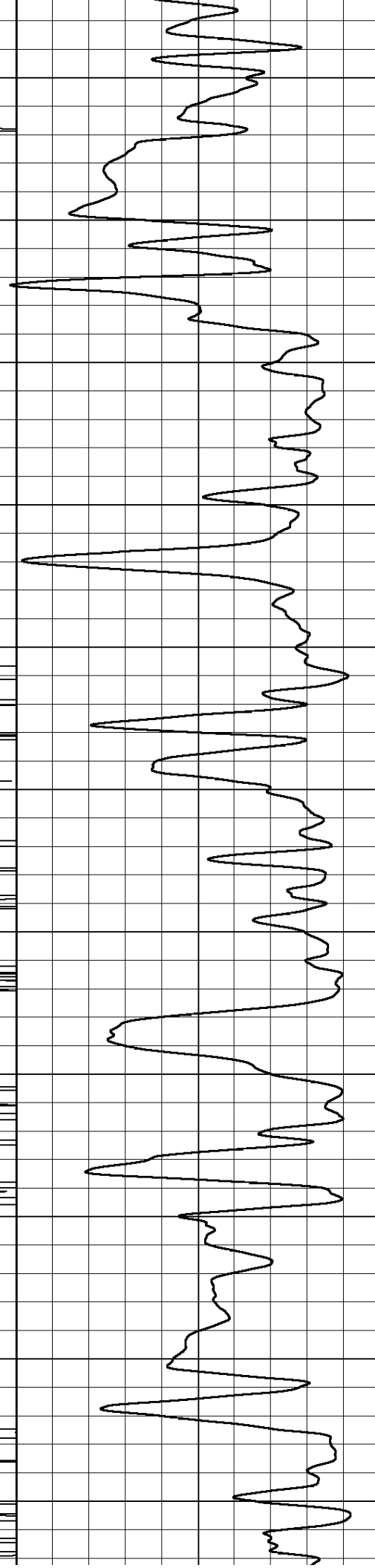
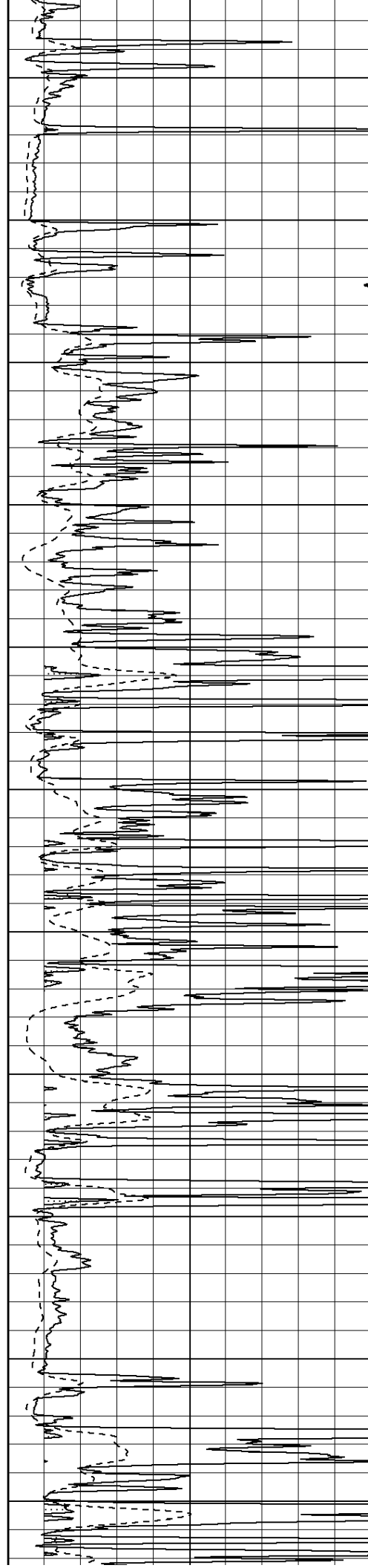
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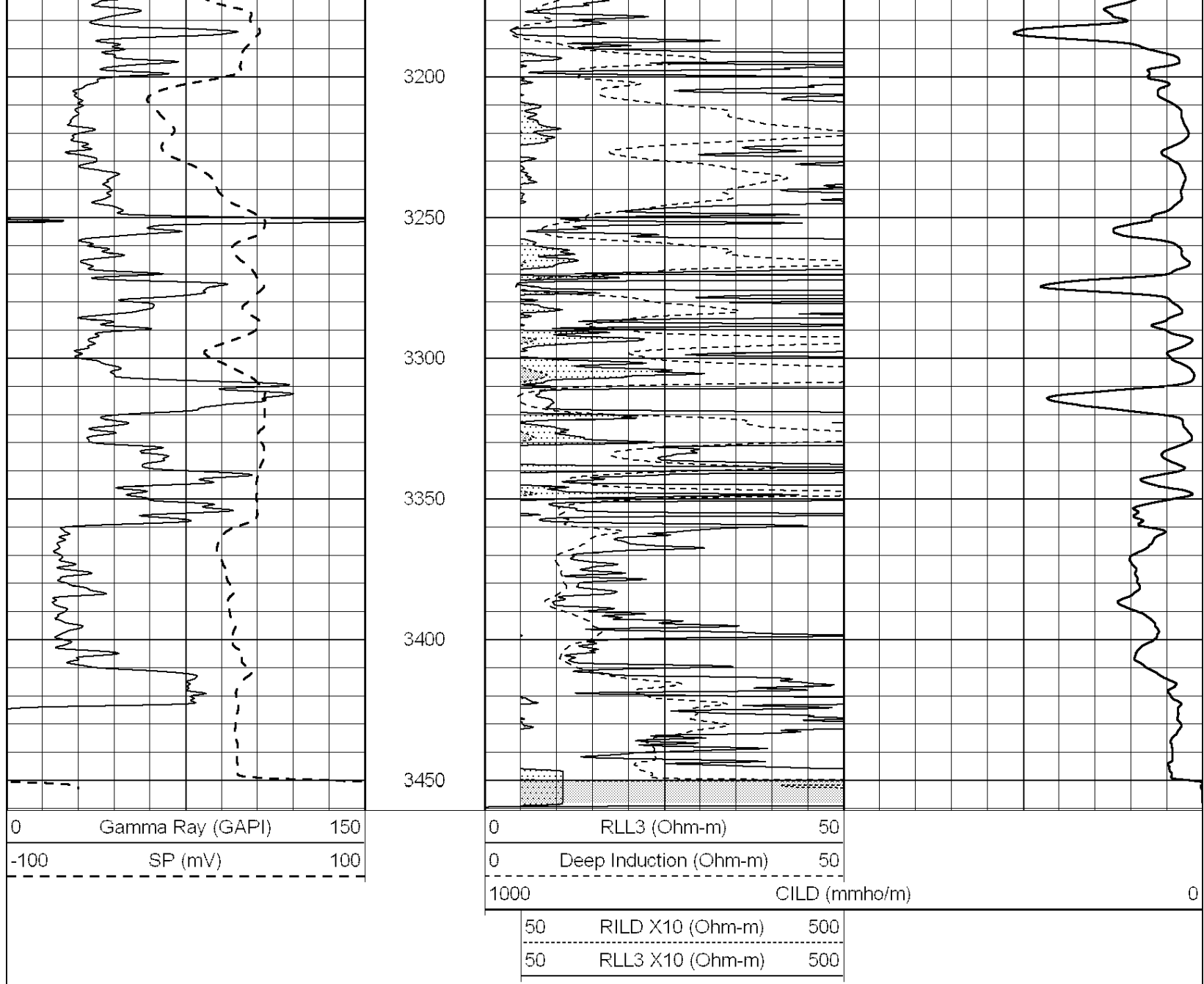
2600





2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150



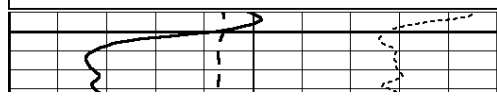


SUPERIOR
Hays,
Kansas

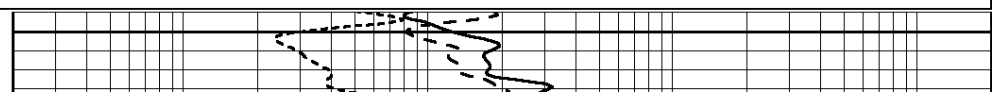
MAIN SECTION

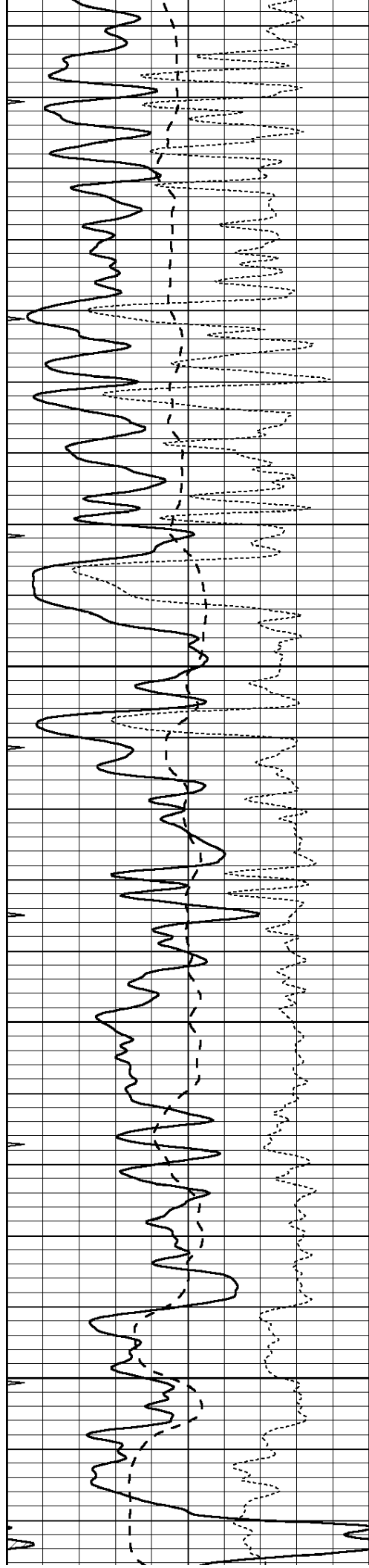
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 Dataset Pathname: pass3.1
 Presentation Format: dil
 Dataset Creation: Tue Dec 13 16:26:17 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	0.2	RLL3 (Ohm-m)	2000
-100	SP (mV)	100	0.2	DEEP INDUCTION (Ohm-m)	2000
-250	RxoRt	50	0.2	MEDIUM INDUCTION (Ohm-m)	2000
0	MINMK	20			



1500



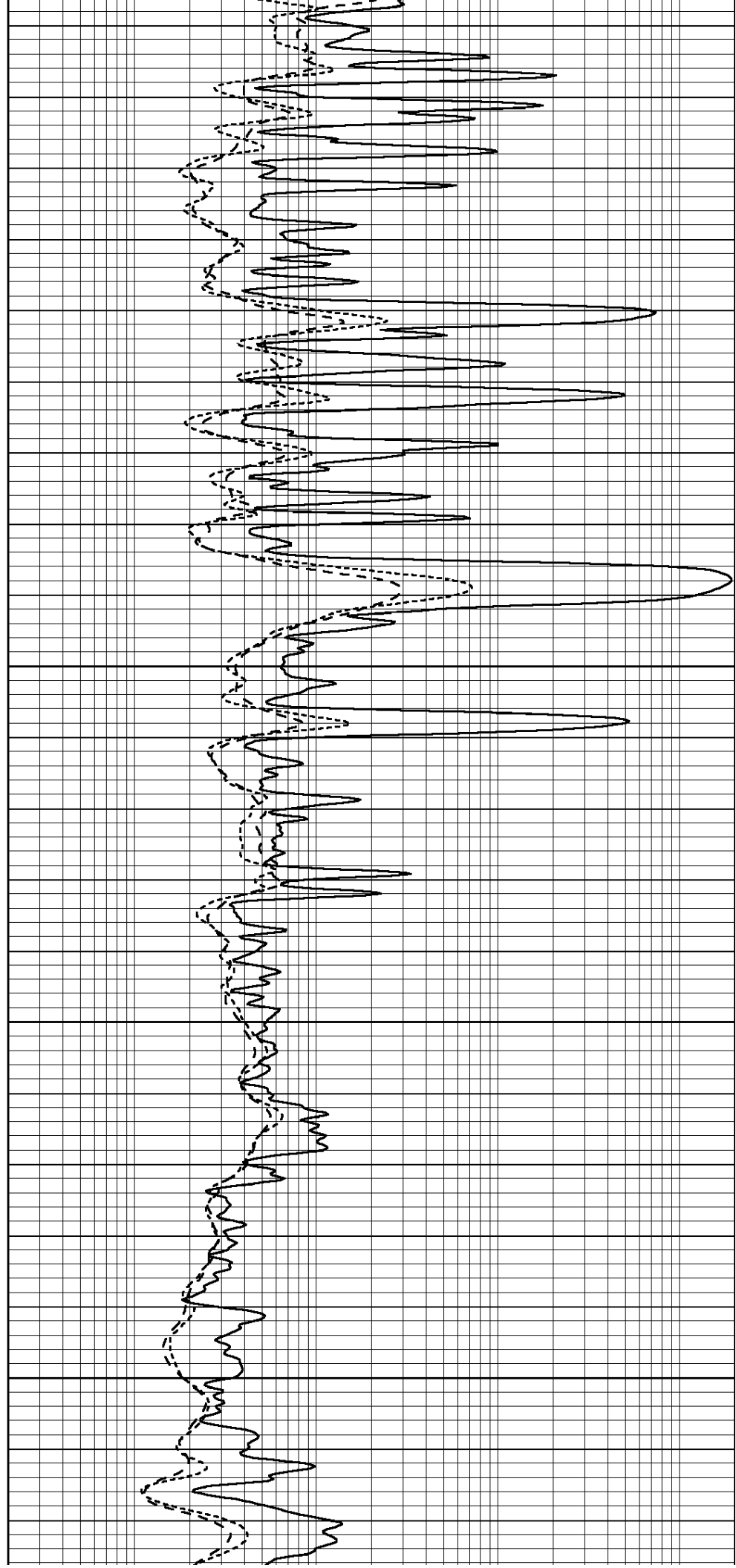


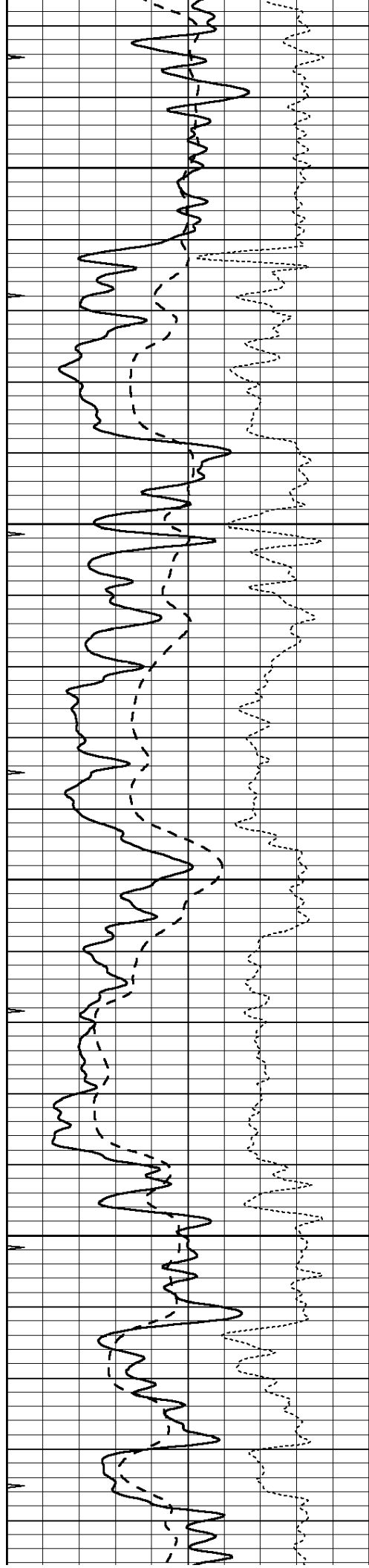
1550

1600

1650

1700



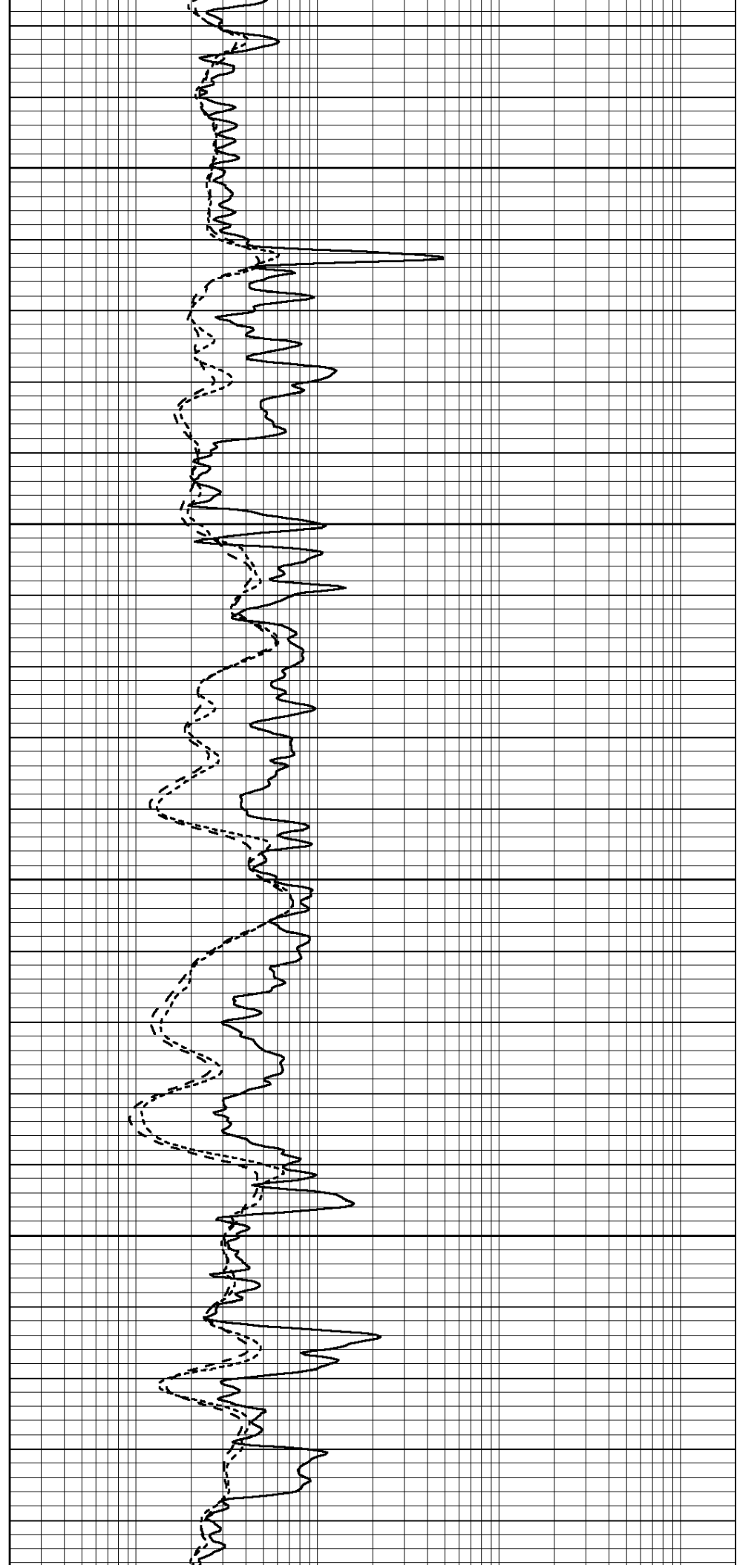


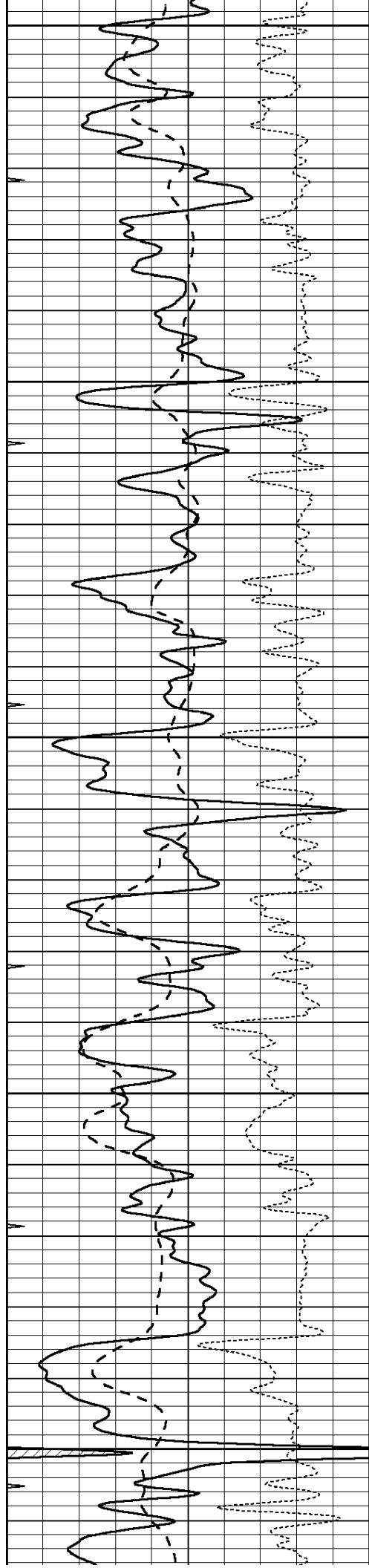
1750

1800

1850

1900





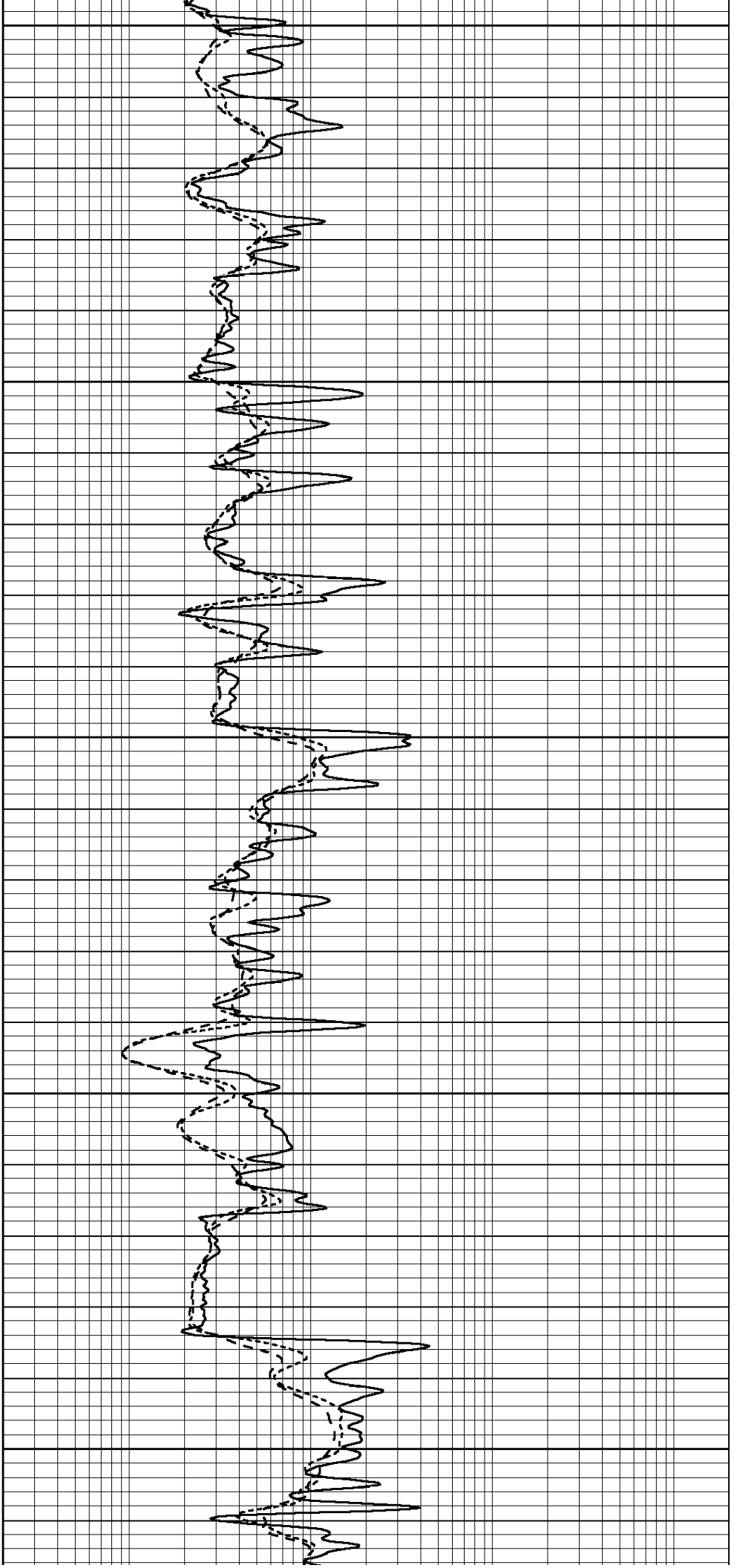
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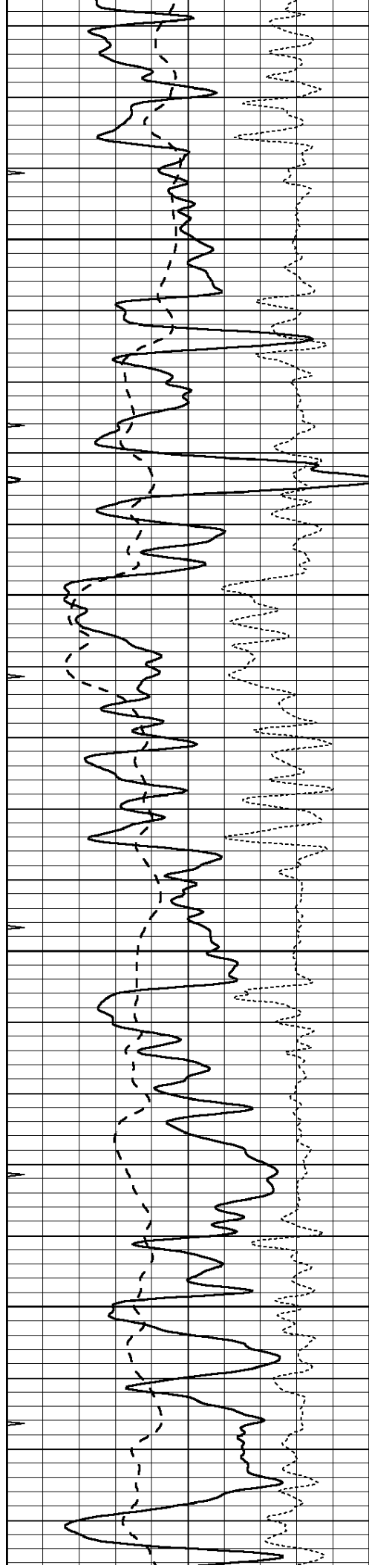
2000

2050

2100

2150



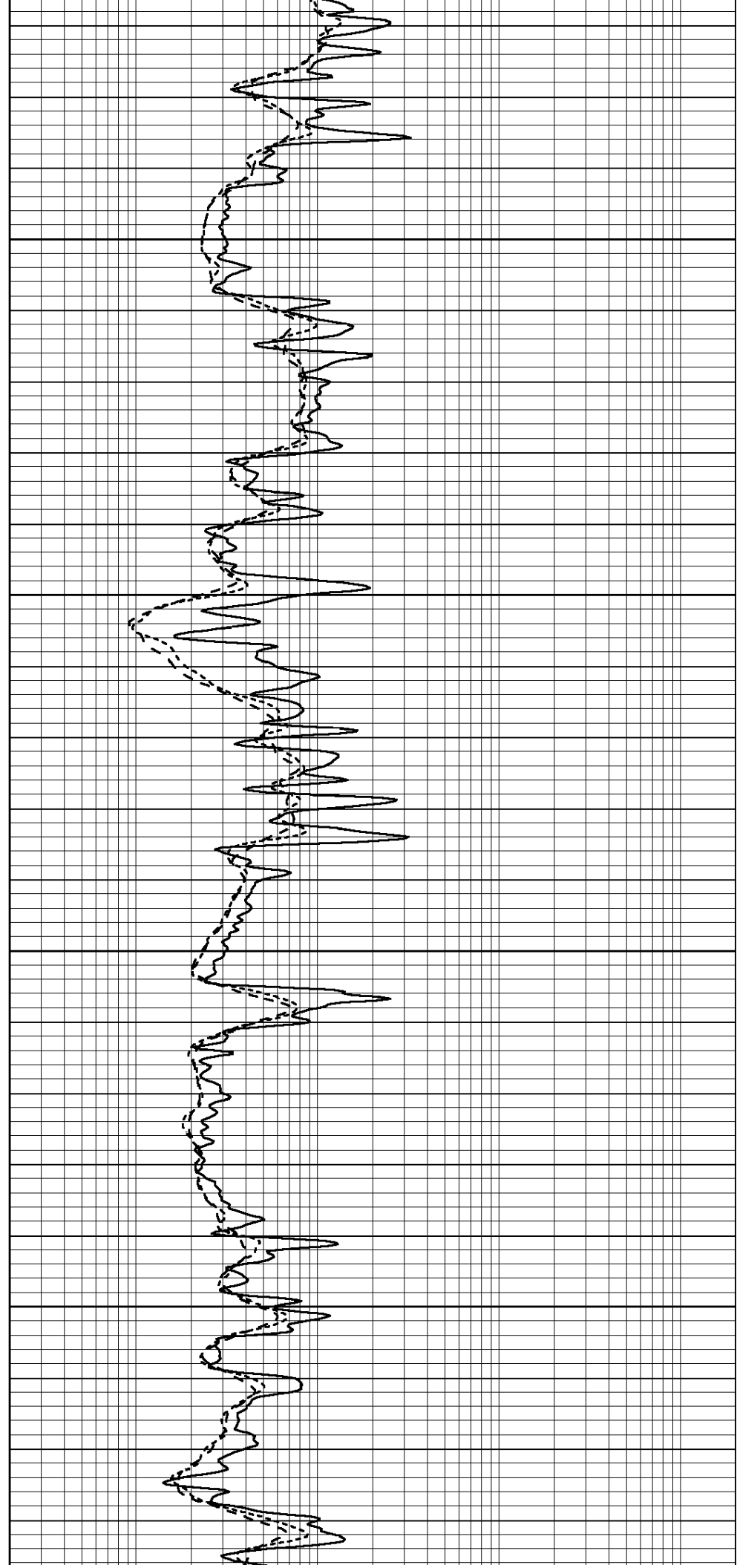


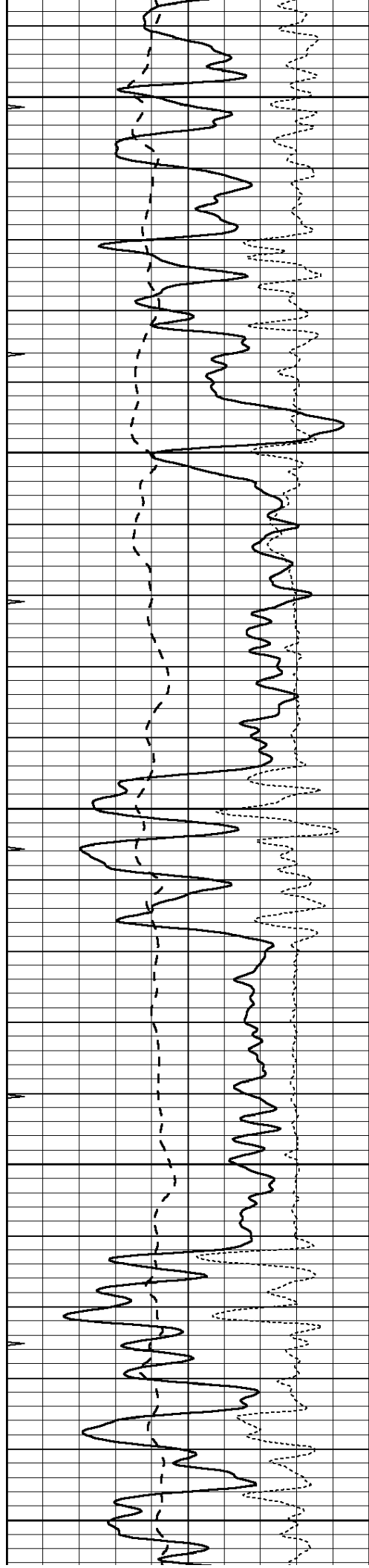
2200

2250

2300

2350





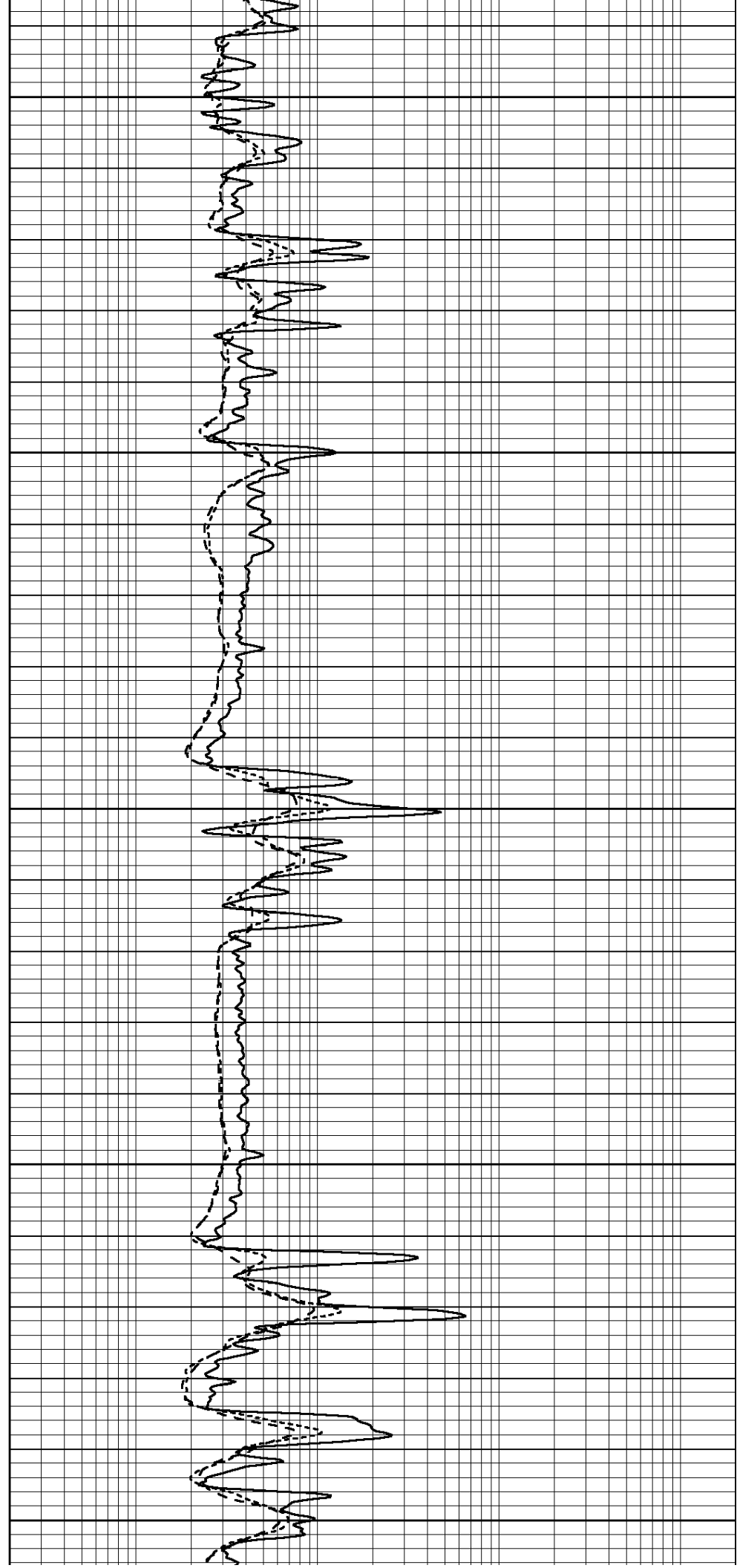
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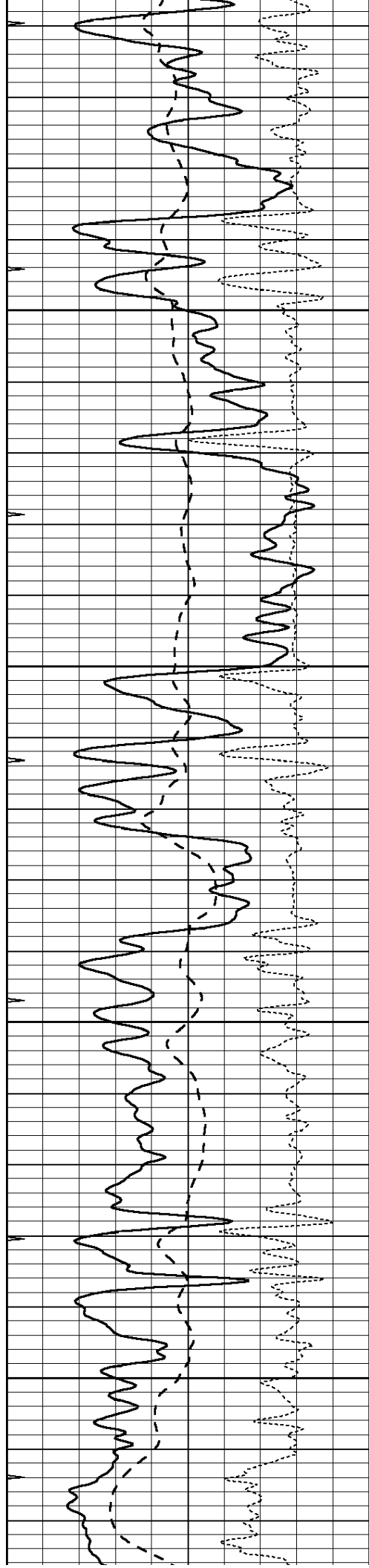
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2500

2550

2600



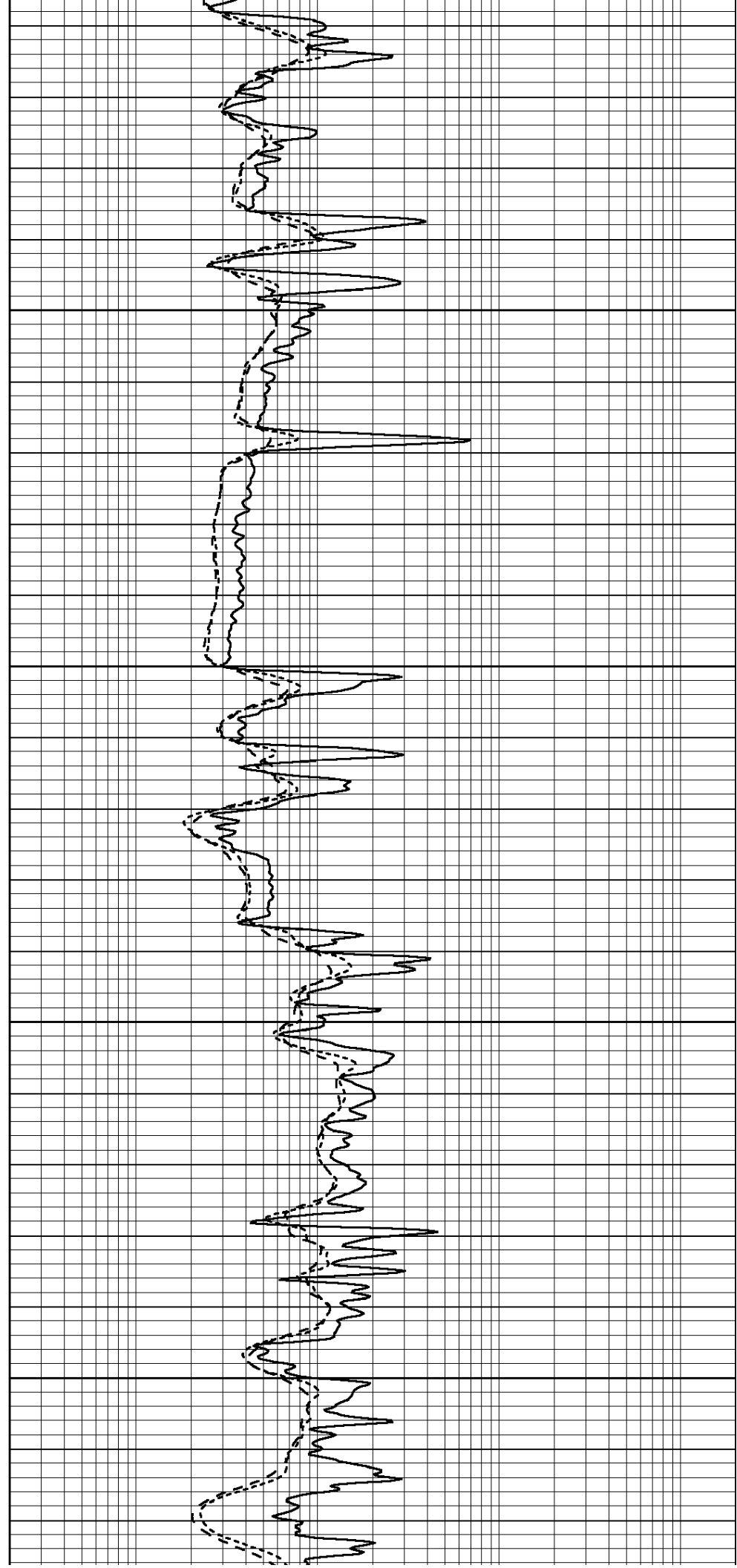


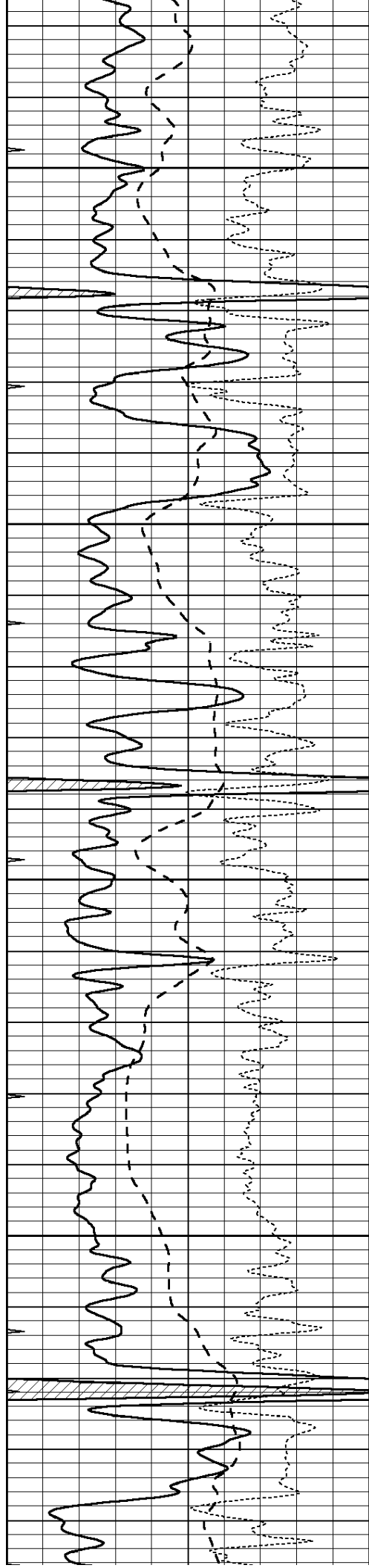
2650

2700

2750

2800



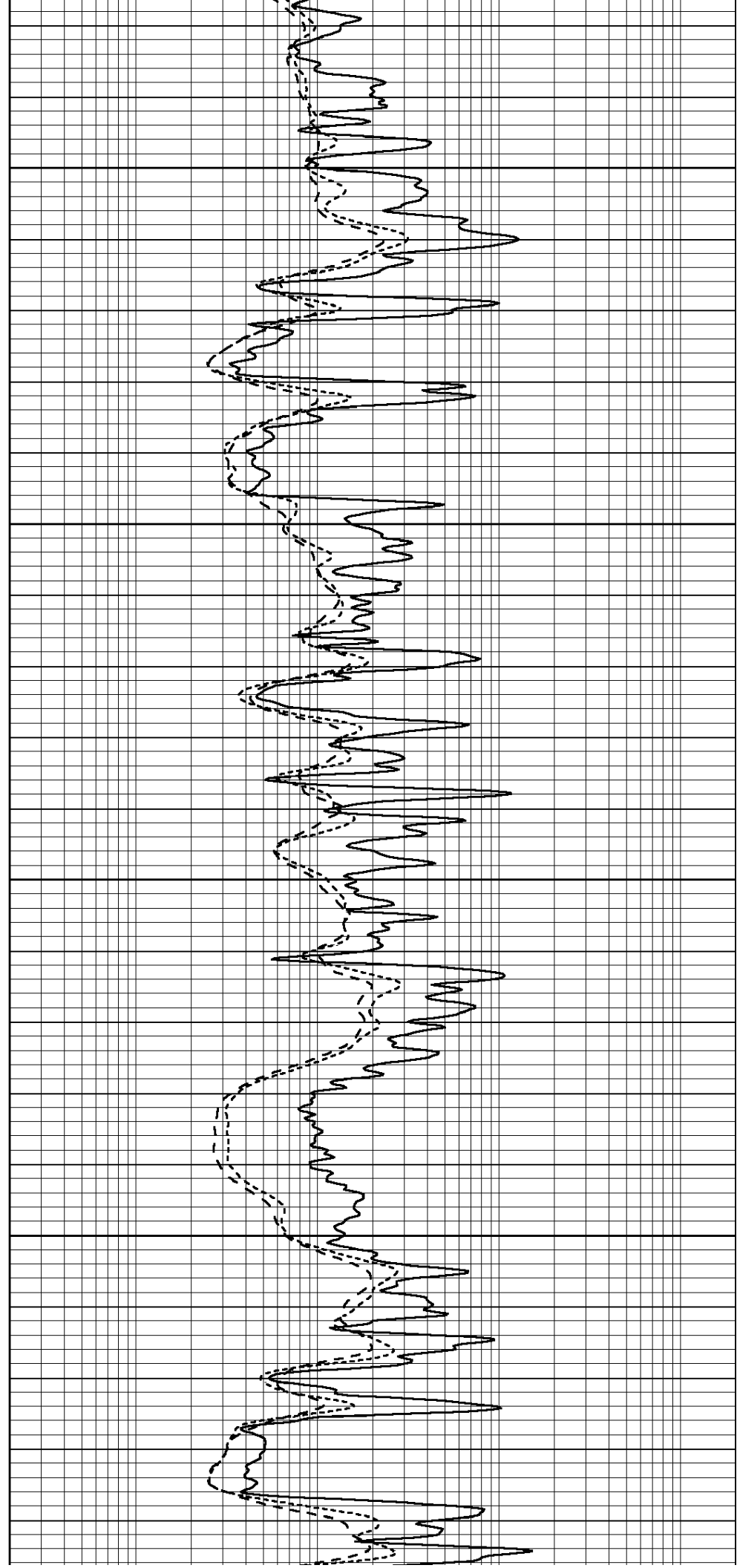


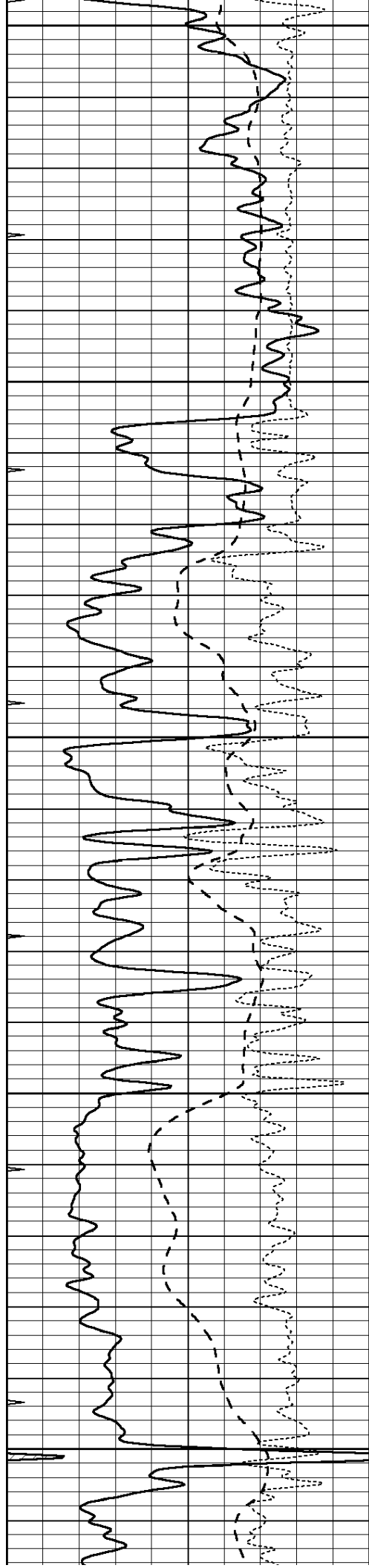
2850

2900

2950

3000





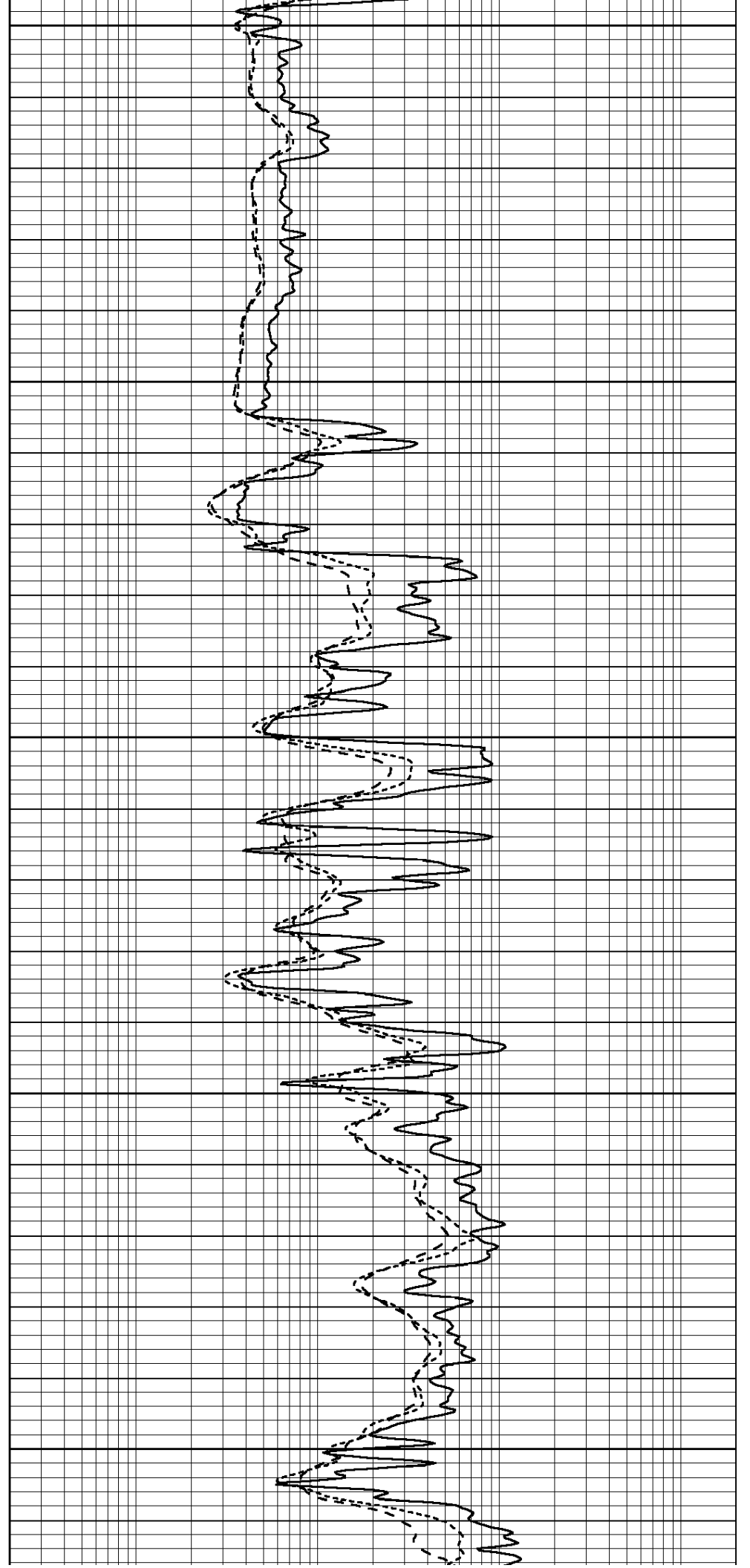
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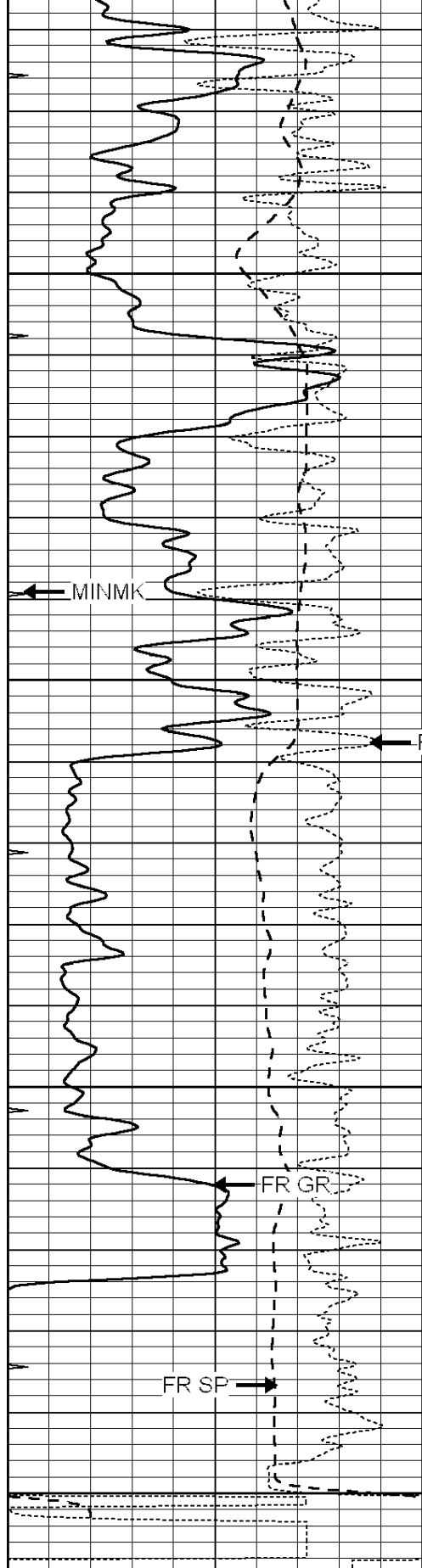
3100

3150

3200

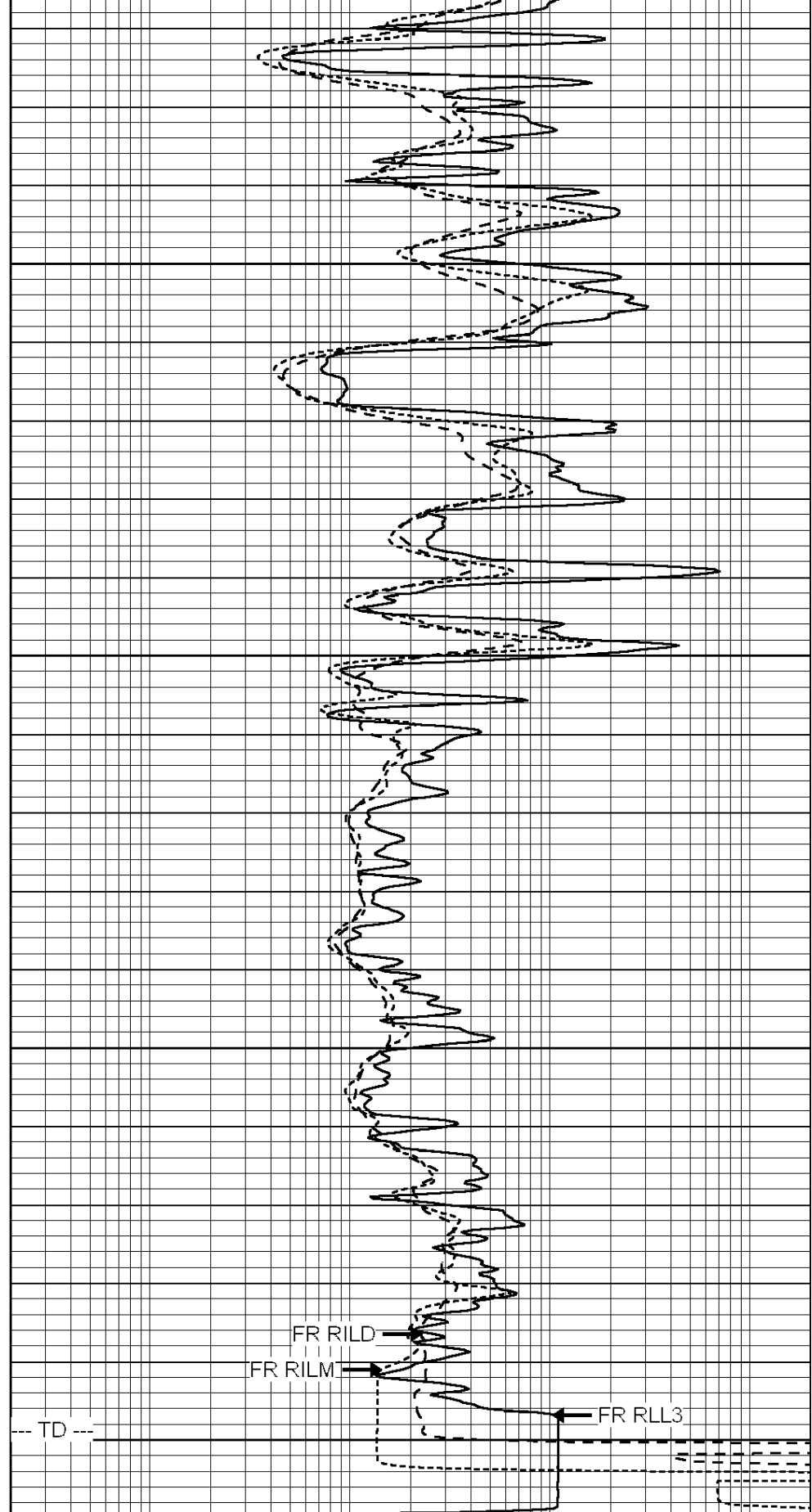
3250





0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

3300
3350
3400
3450



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

FR RILD
FR RILM
FR RLL3
TD



SUPERIOR

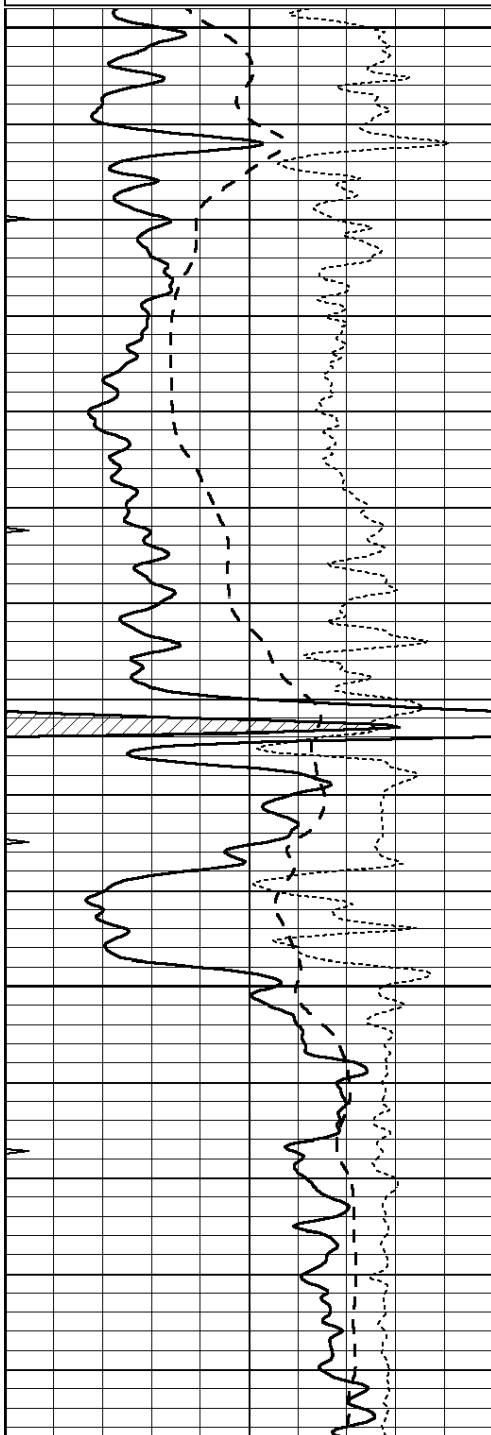
Hays,
Kansas

REPEAT SECTION

Database File: 001214ddn.db
 Dataset Pathname: pass2.1A
 Presentation Format: dil
 Dataset Creation: Tue Dec 13 16:19:30 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

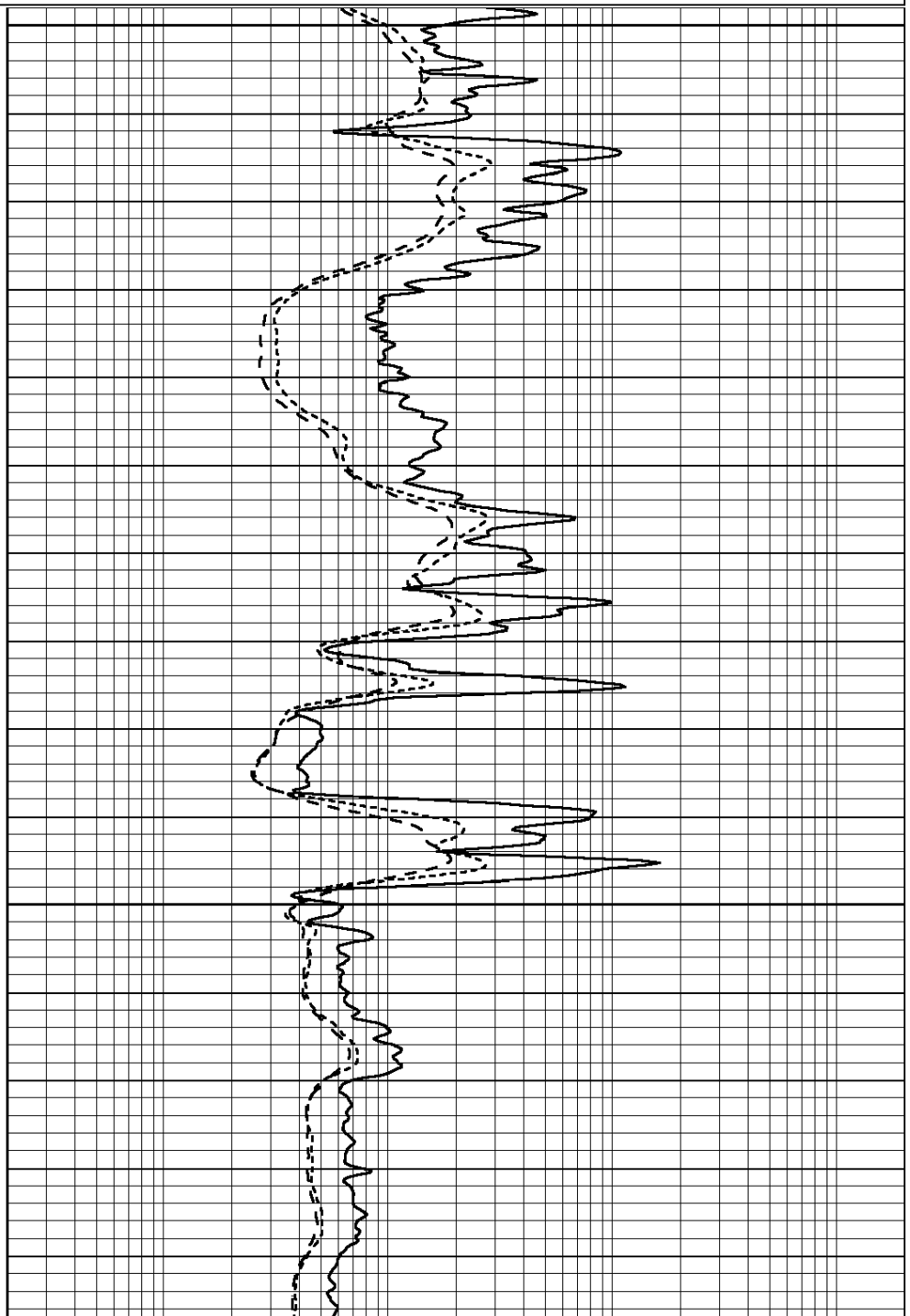
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

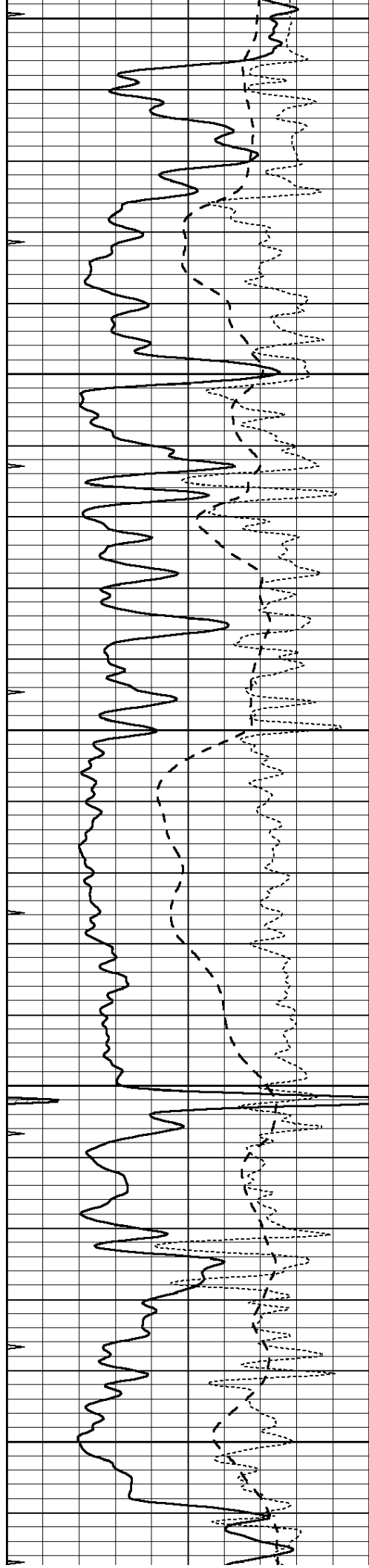


2950

3000

3050





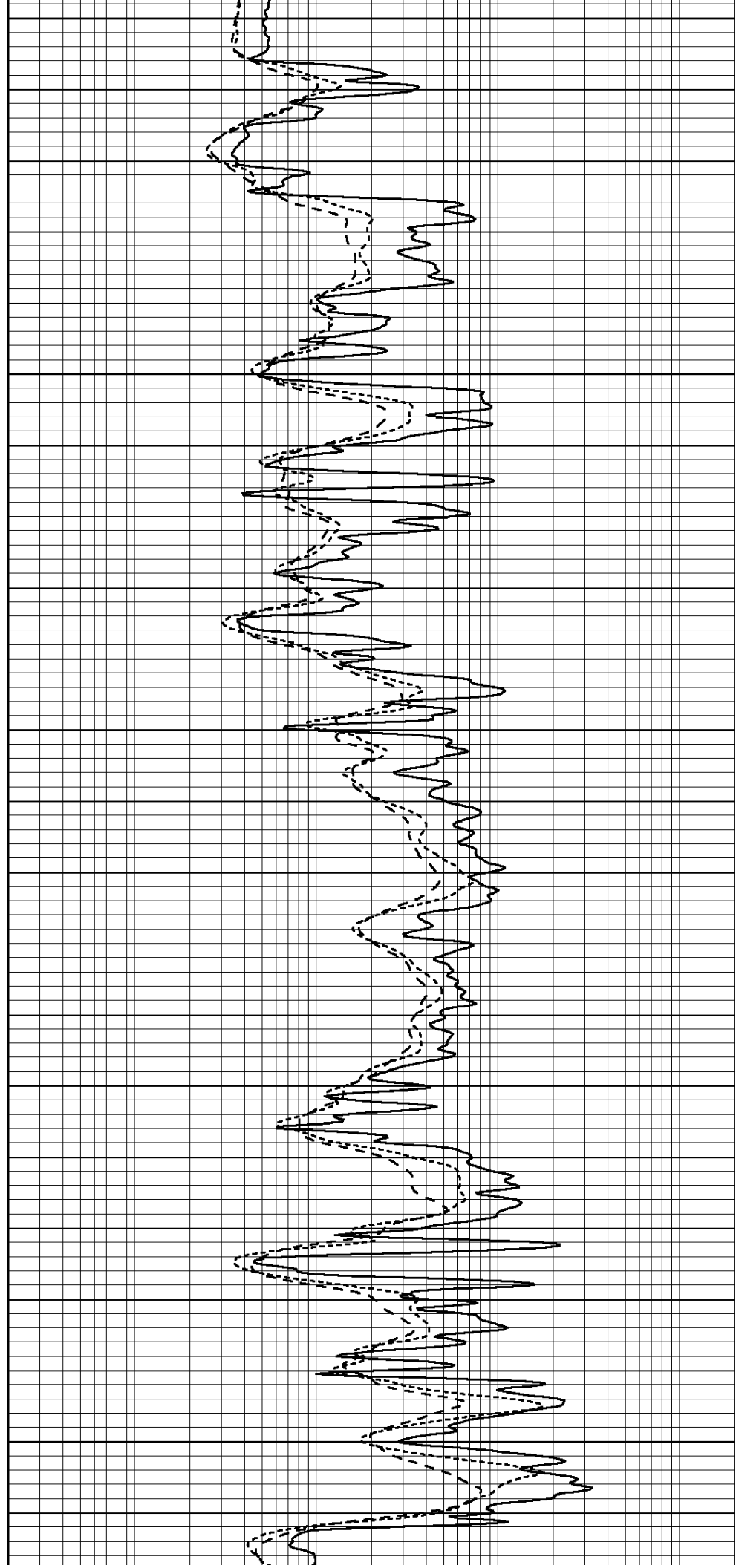
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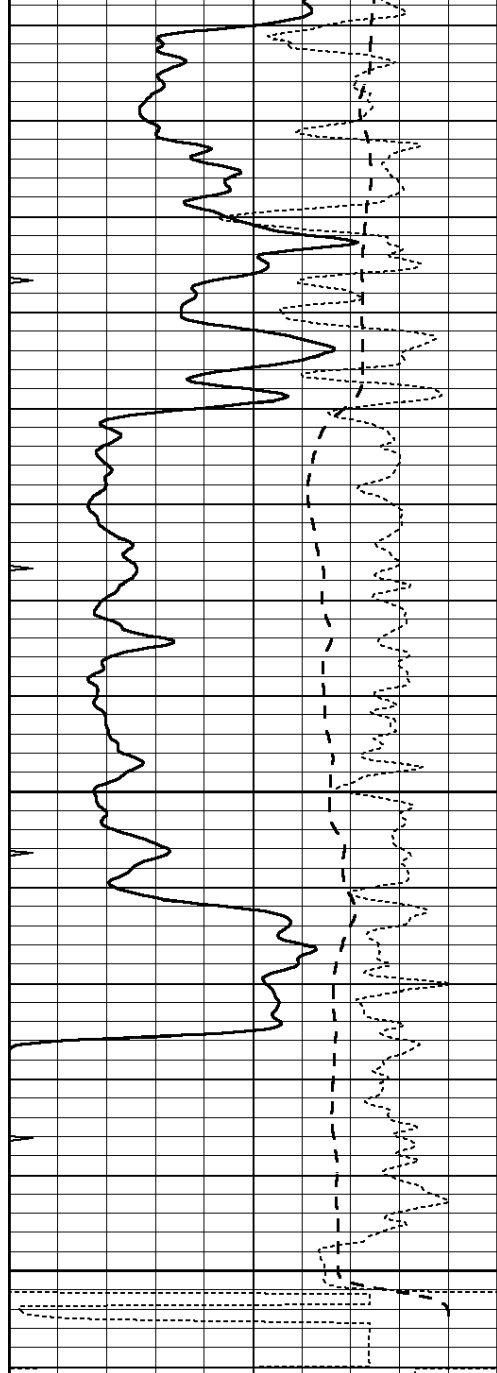
3150

3200

3250

3300



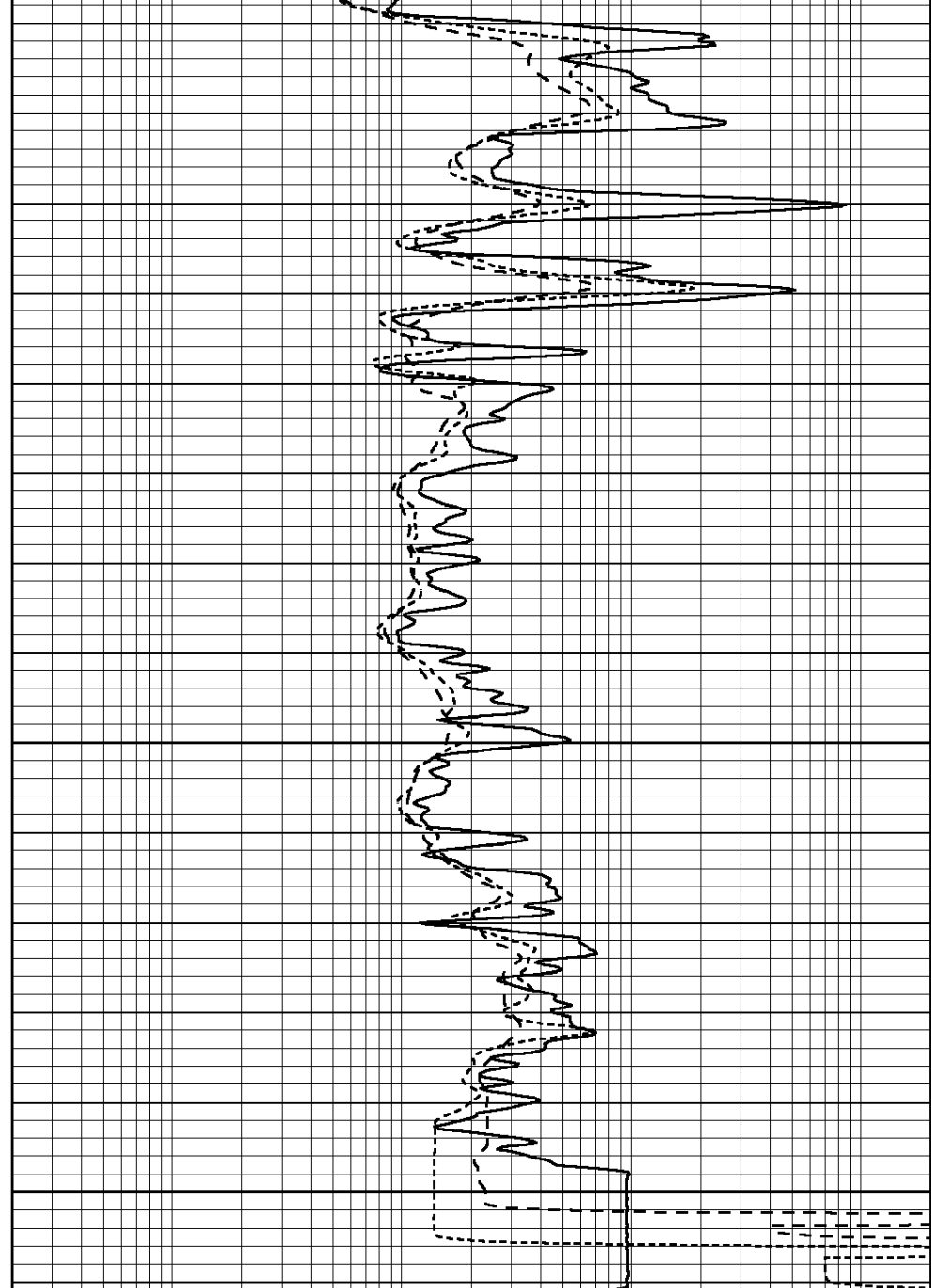


0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

3350

3400

3450



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

Calibration Report

Database File: 001214ddn.db
 Dataset Pathname: pass2.1A
 Dataset Creation: Tue Dec 13 16:19:30 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Tue Dec 13 14:50:27 2011

Readings		References		Results	
Loop:	Air	Loop	Air	Loop	m b

Deep	0.004	0.654	V	0.000	400.000	mmho/m	520.000	-16.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	550.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART
Source / Verifier: 147 / 147
Master Calibration Performed: Tue Dec 13 14:50:14 2011

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1243.76	629.14	cps
Aluminum	2.590	g/cc	282.16	435.01	cps
Spine Angle = 76.03			Density/Spine Ratio = 0.576		
	Size		Reading		
Small Ring	8.50	in	3.47	V	
Large Ring	14.00	in	5.80	V	

Compensated Neutron Calibration Report

Serial Number: NUE_2I
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: GR5
Tool Model: OPEN
Performed: Tue Dec 13 14:49:50 2011

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.6500 GAPI/cps



**SUPERIOR
Hays,
Kansas**

**SONIC
LOG**

Company CAERUS KANSAS, LLC.
Well HOFFMAN RANCH #23-23
Field HOISINGTON EAST
County BARTON State KANSAS

Company CAERUS KANSAS, LLC.
Well HOFFMAN RANCH #23-23
Field HOISINGTON EAST
County BARTON
State KANSAS

Location: API #: 15-009-25639
1795' FSL & 1814' FWL
SEC 123 TWP 17S RGE 13W
Permanent Datum GROUND LEVEL Elevation 1856
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
CDL/CNL
MICRO/DIL
Elevation
K.B. 1865
D.F.
G.L. 1856

Date	12-13-11		
Run Number	TW0		
Depth Driller	3450		
Depth Logger	3449		
Bottom Logged Interval	3442		
Top Log Interval	800		
Casing Driller	820		
Casing Logger	820		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 45		
pH / Fluid Loss	9.5 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.65 @ 70F		
Rmf @ Meas. Temp	0.49 @ 70F		
Rmc @ Meas. Temp	0.78 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.420 @ 109F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2:30 P.M.		
Maximum Recorded Temperature	109F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	JEFF LAWLER	BRIAN KARLIN	

<<< Fold Here >>>

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Comments

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: HOISINGTON DAIRY QUEEN, 2E, 2 1/2N, E INTO.

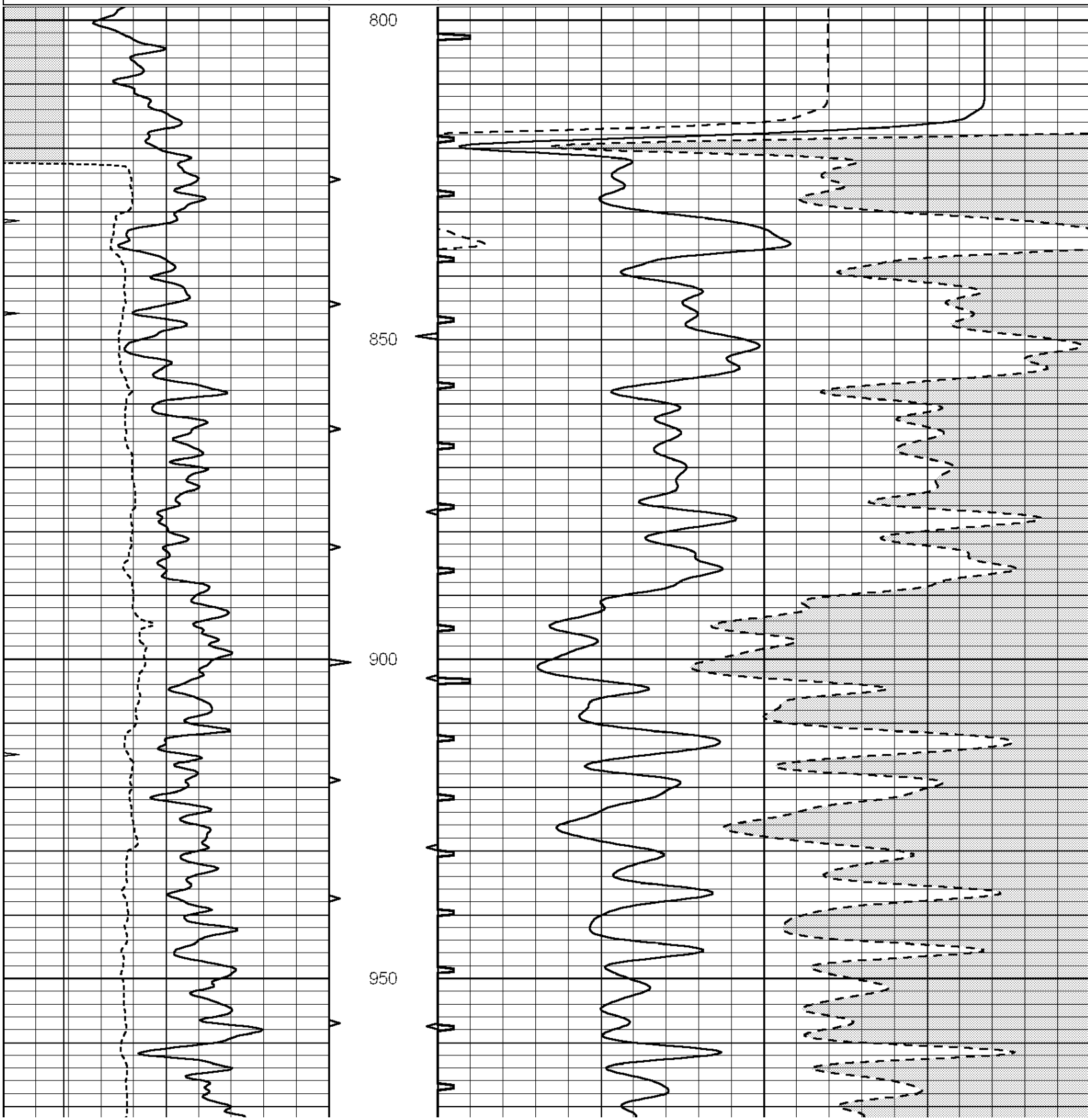


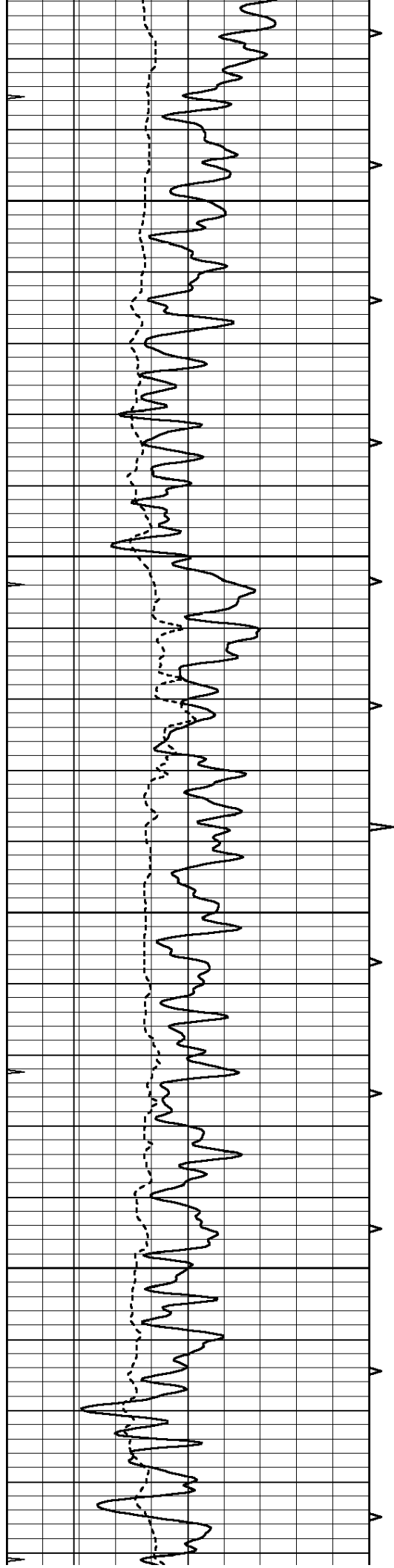
**SUPERIOR
Hays,
Kansas**

MAIN SECTION

Database File: 001214ddn.db
 Dataset Pathname: pass5.1
 Presentation Format: slt
 Dataset Creation: Tue Dec 13 18:36:50 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	MELCAL (in)	16	10 (ft3)	0 30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3)	10		



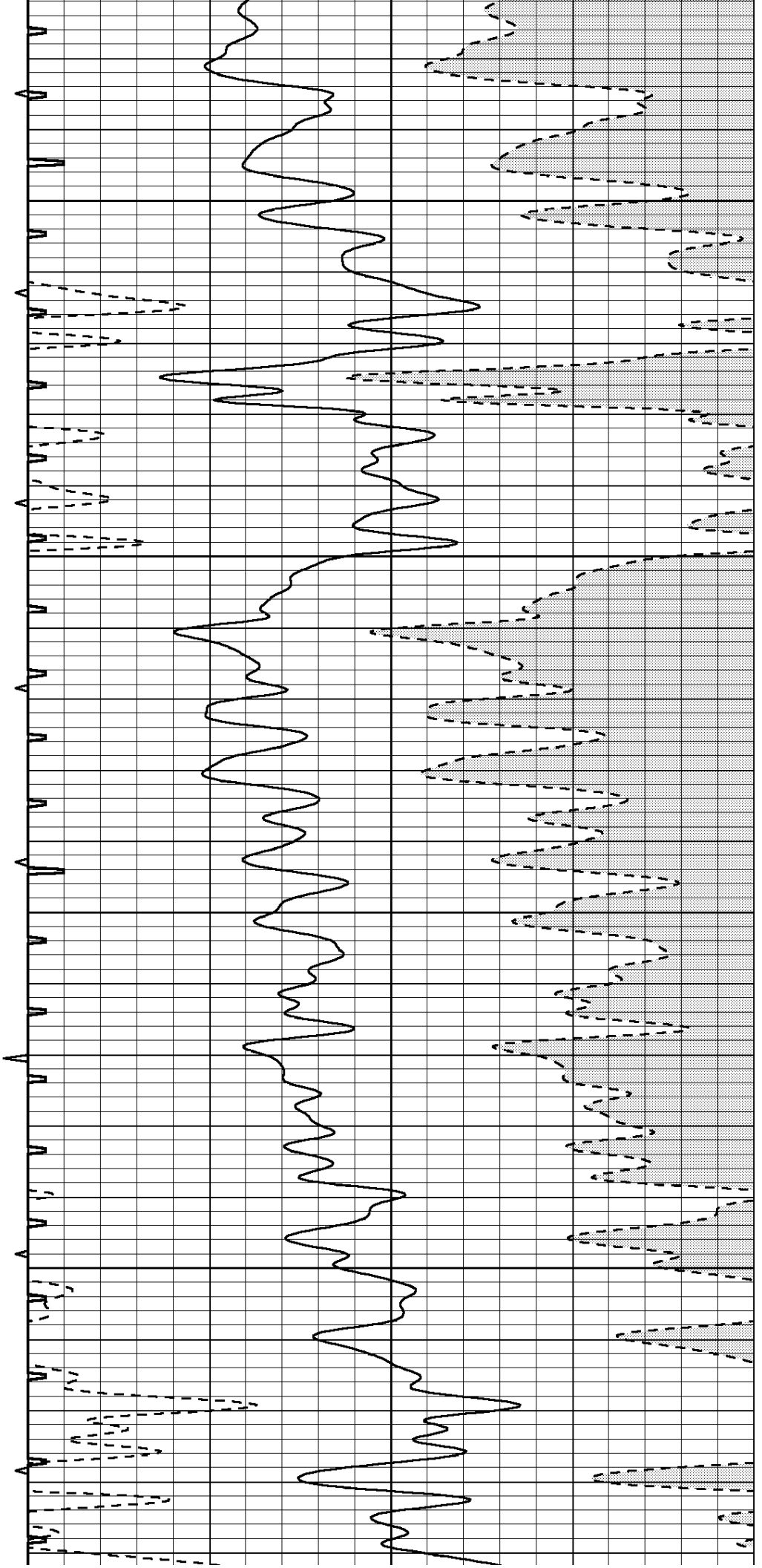


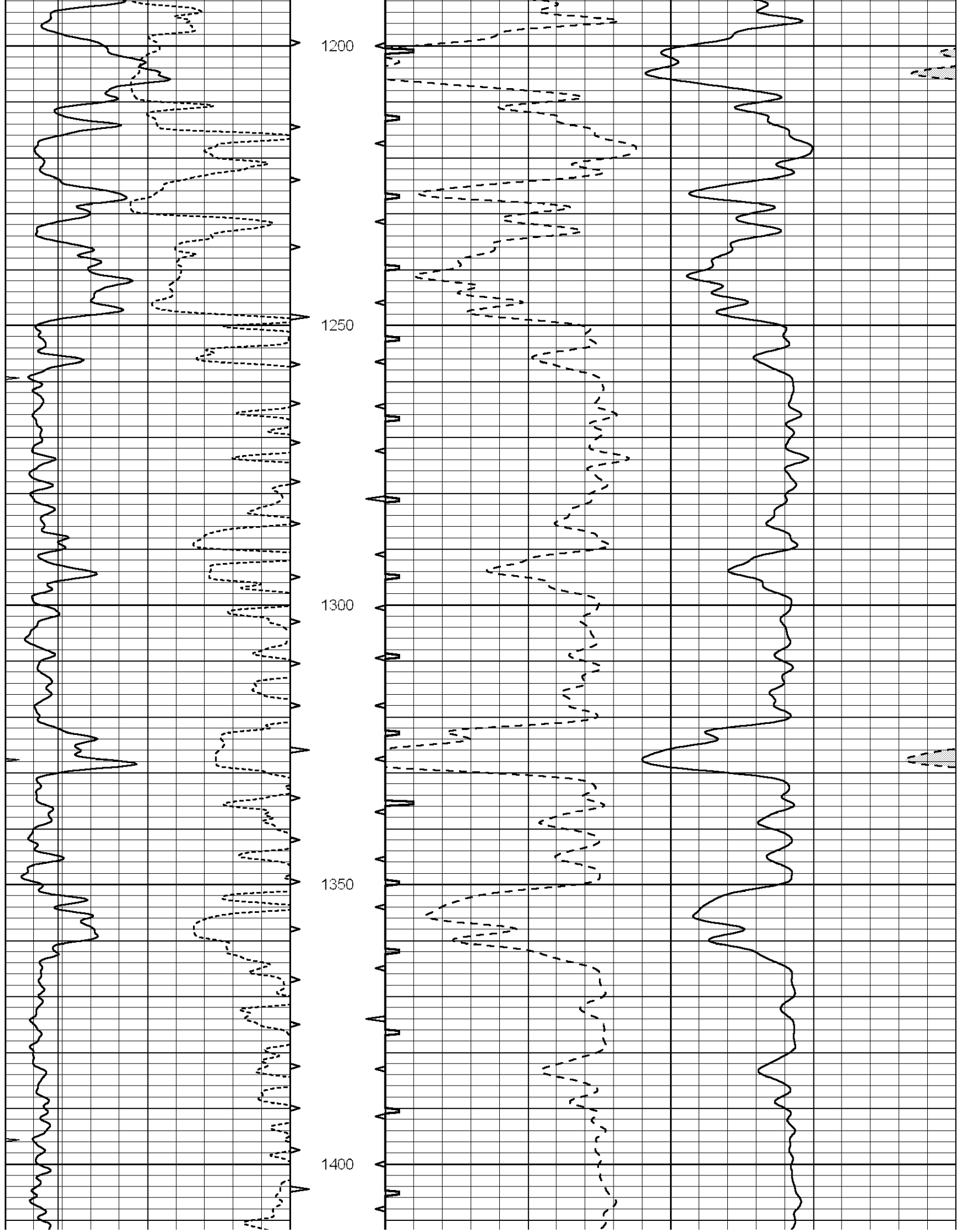
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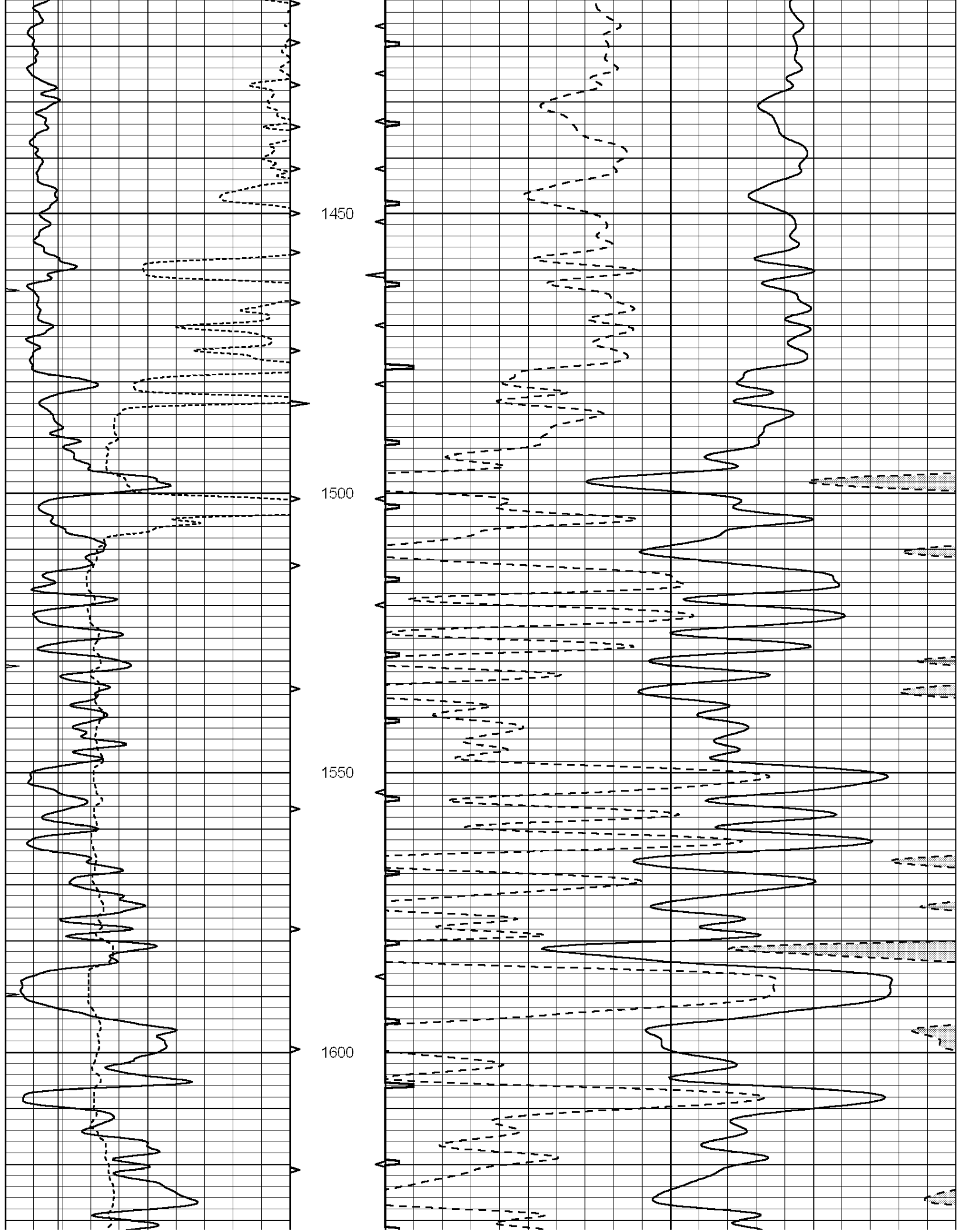
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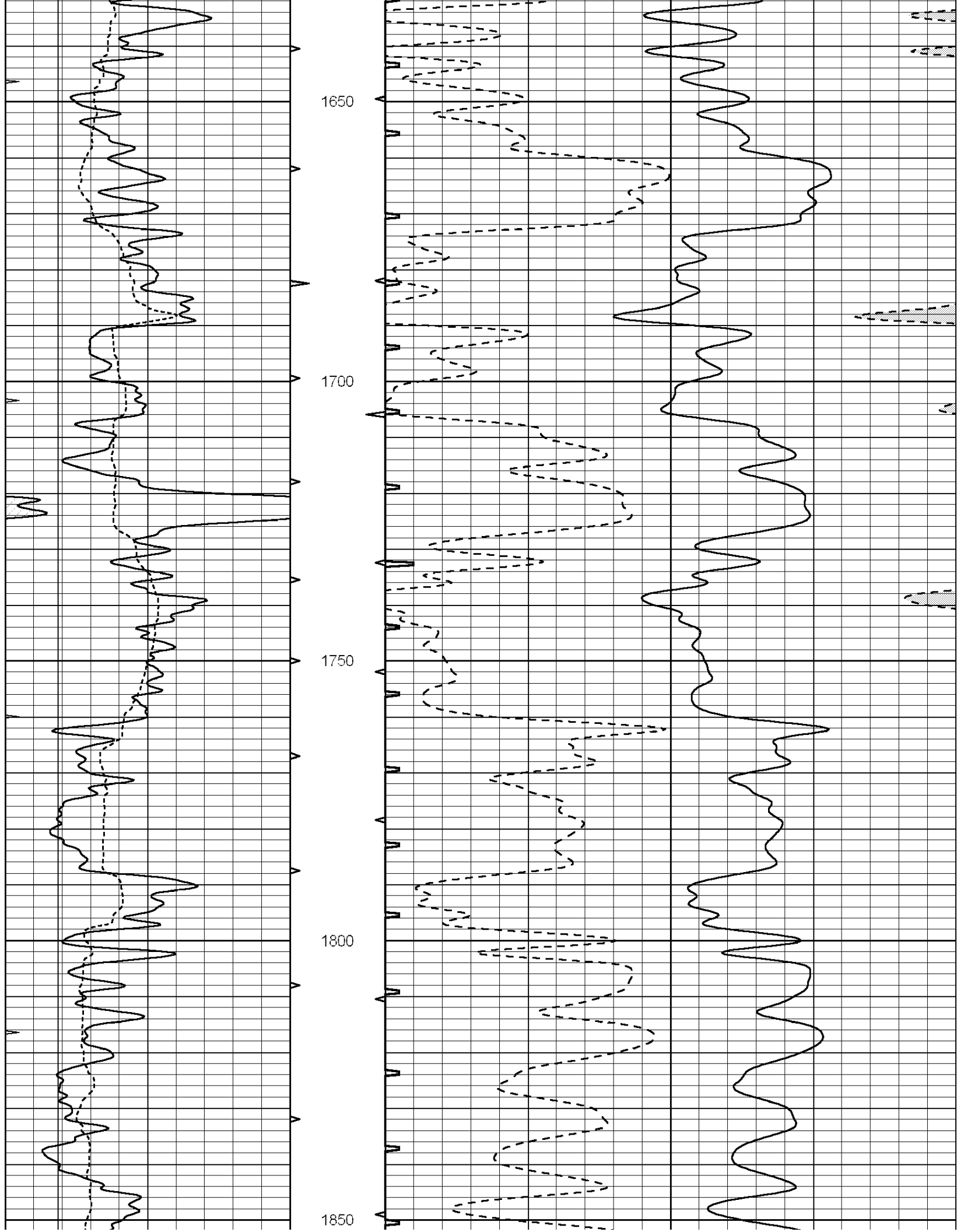
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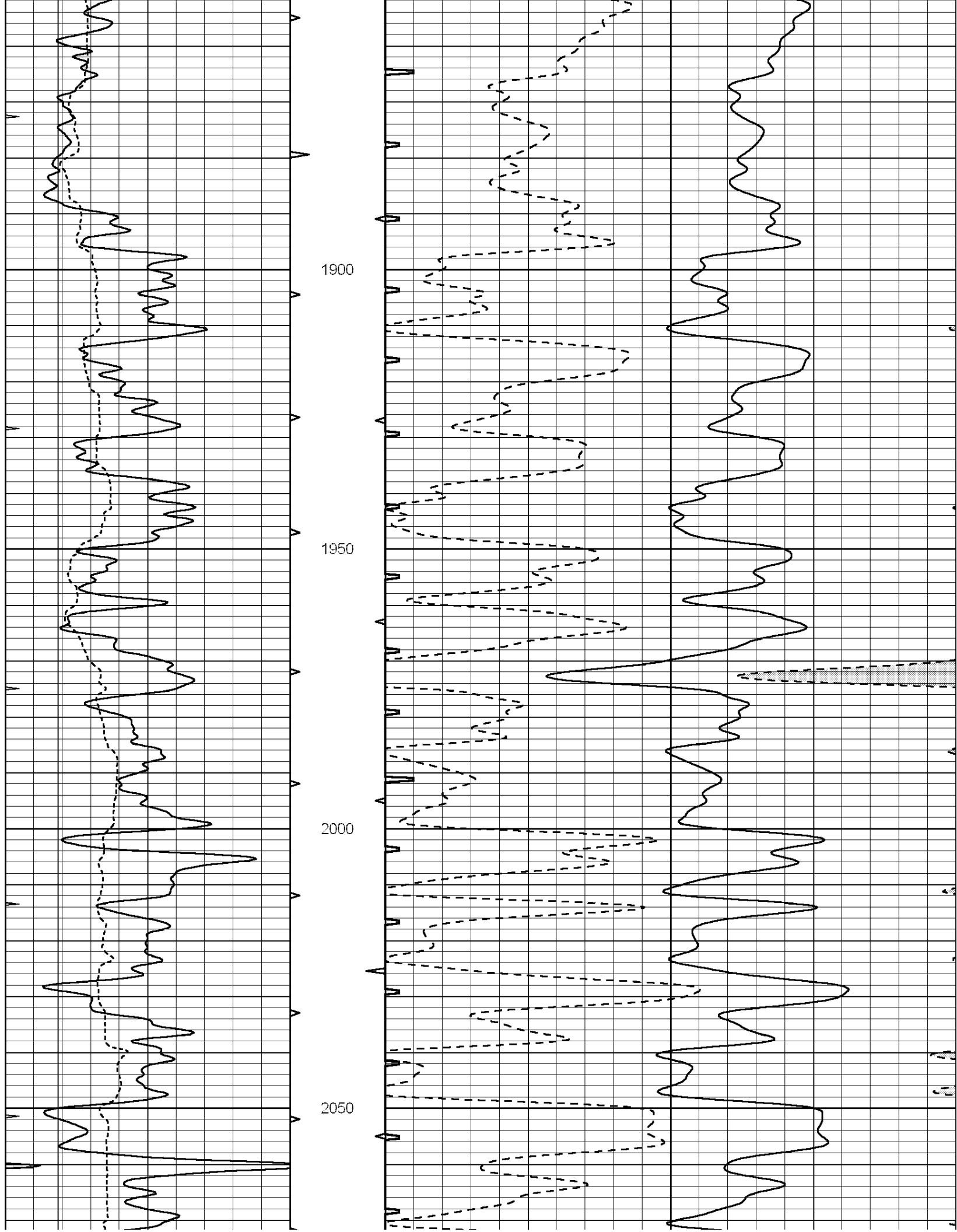
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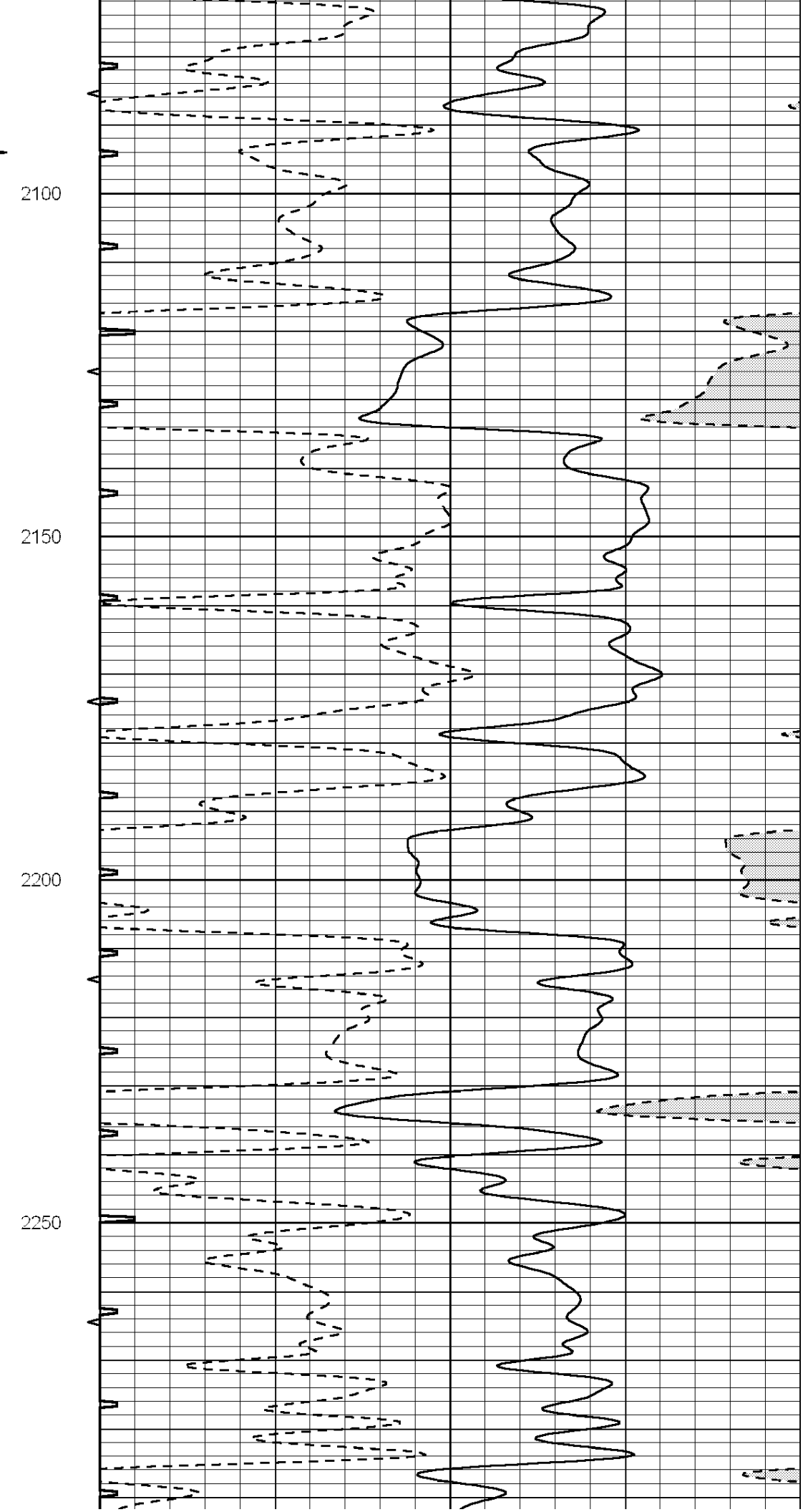
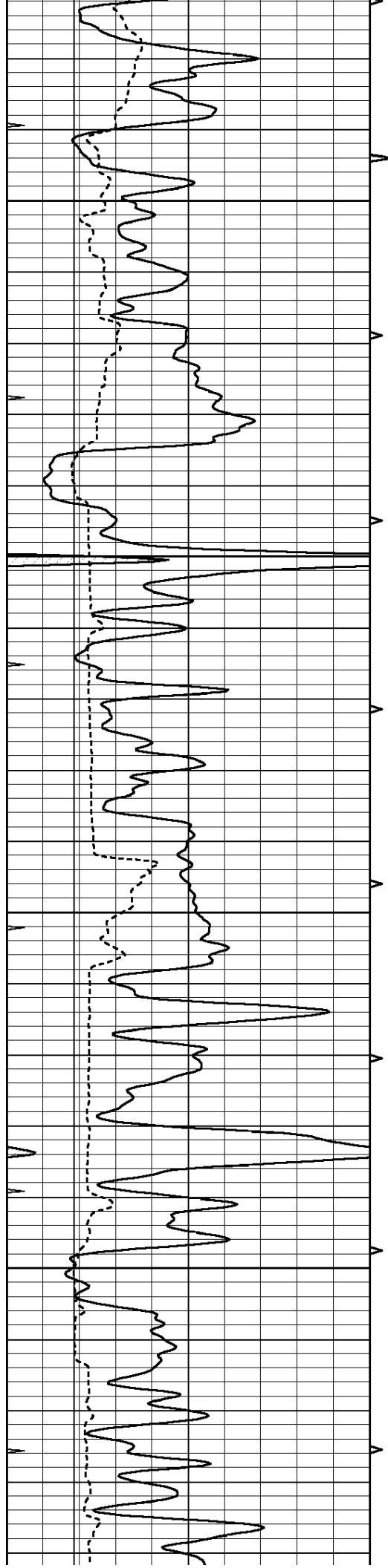


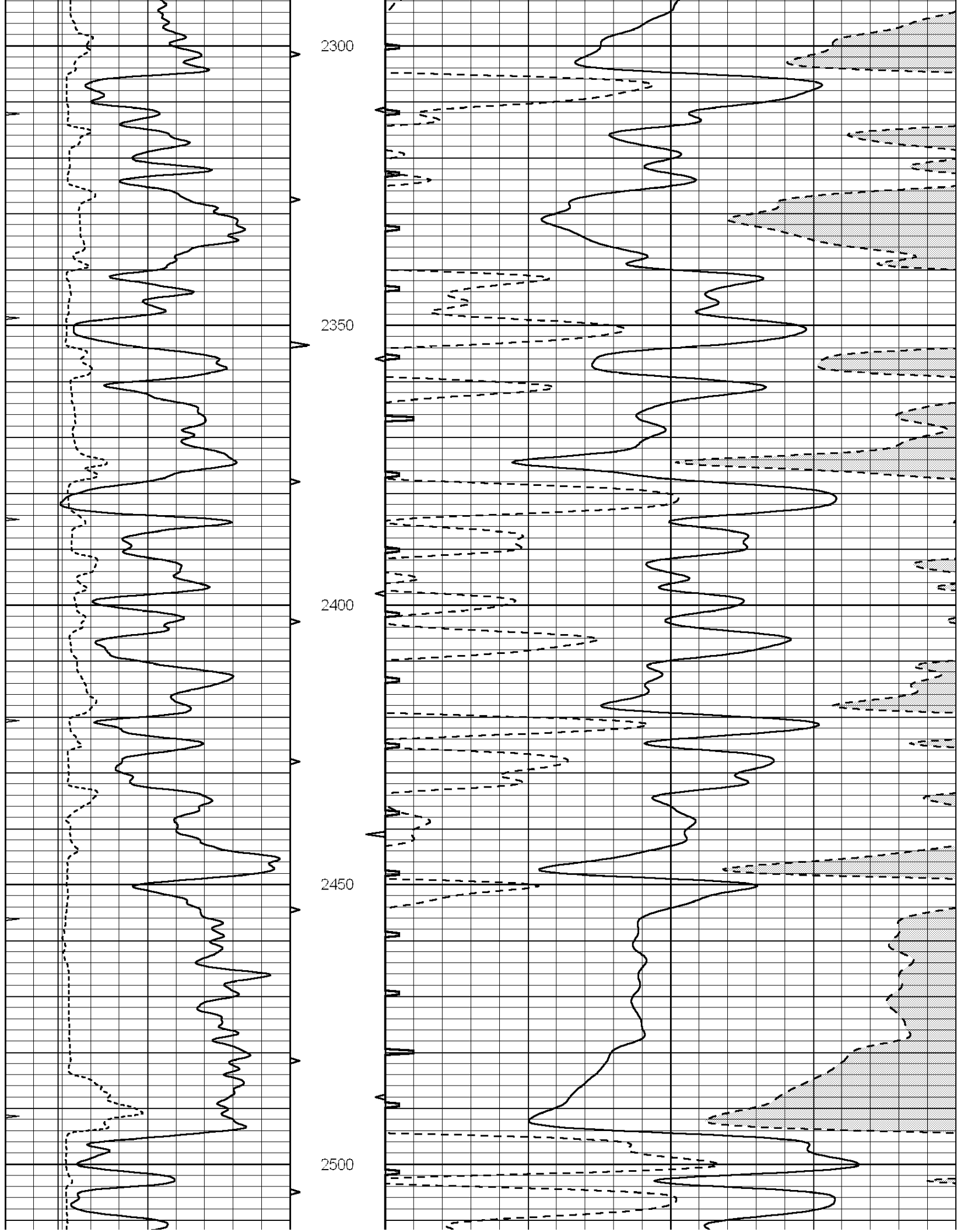


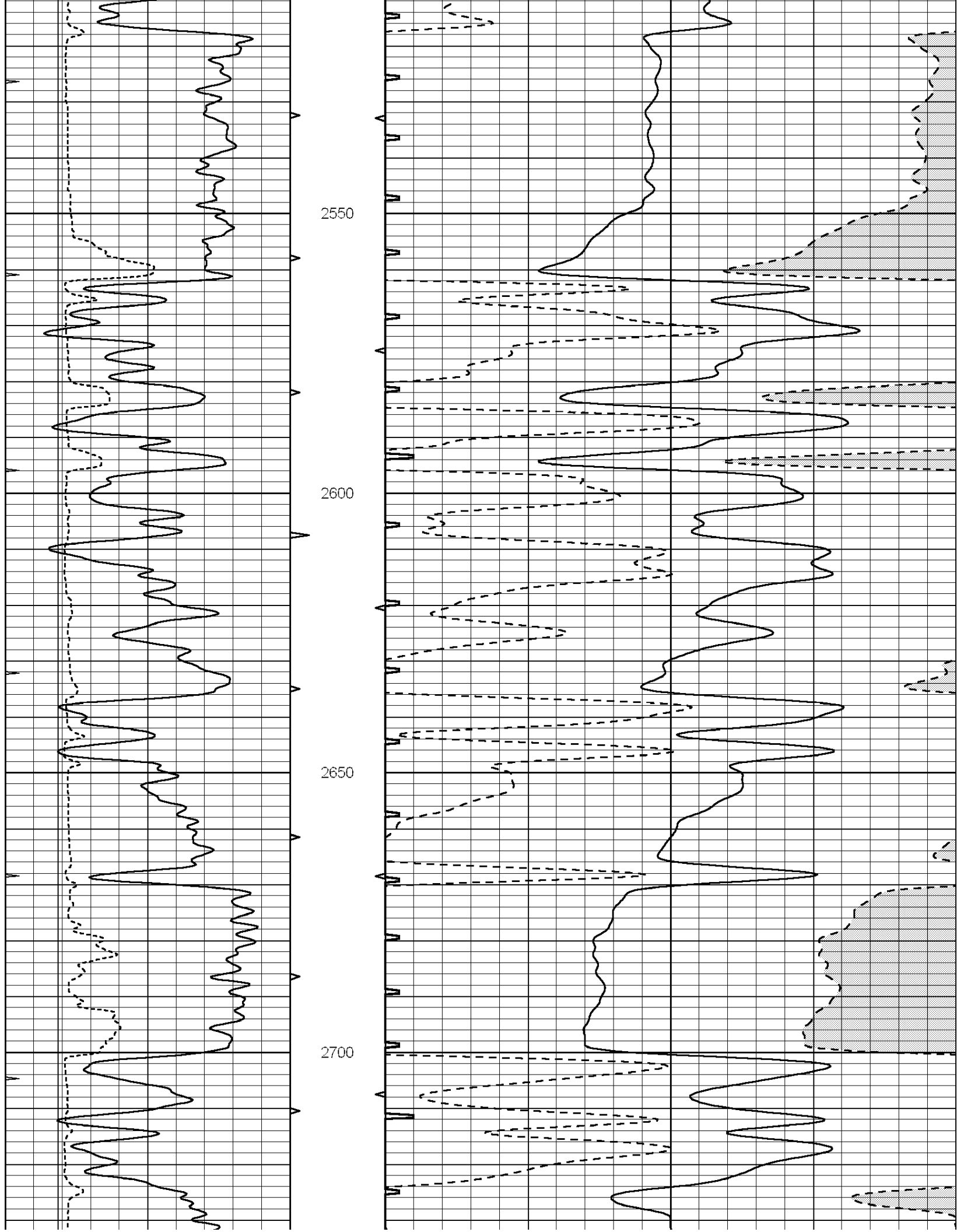


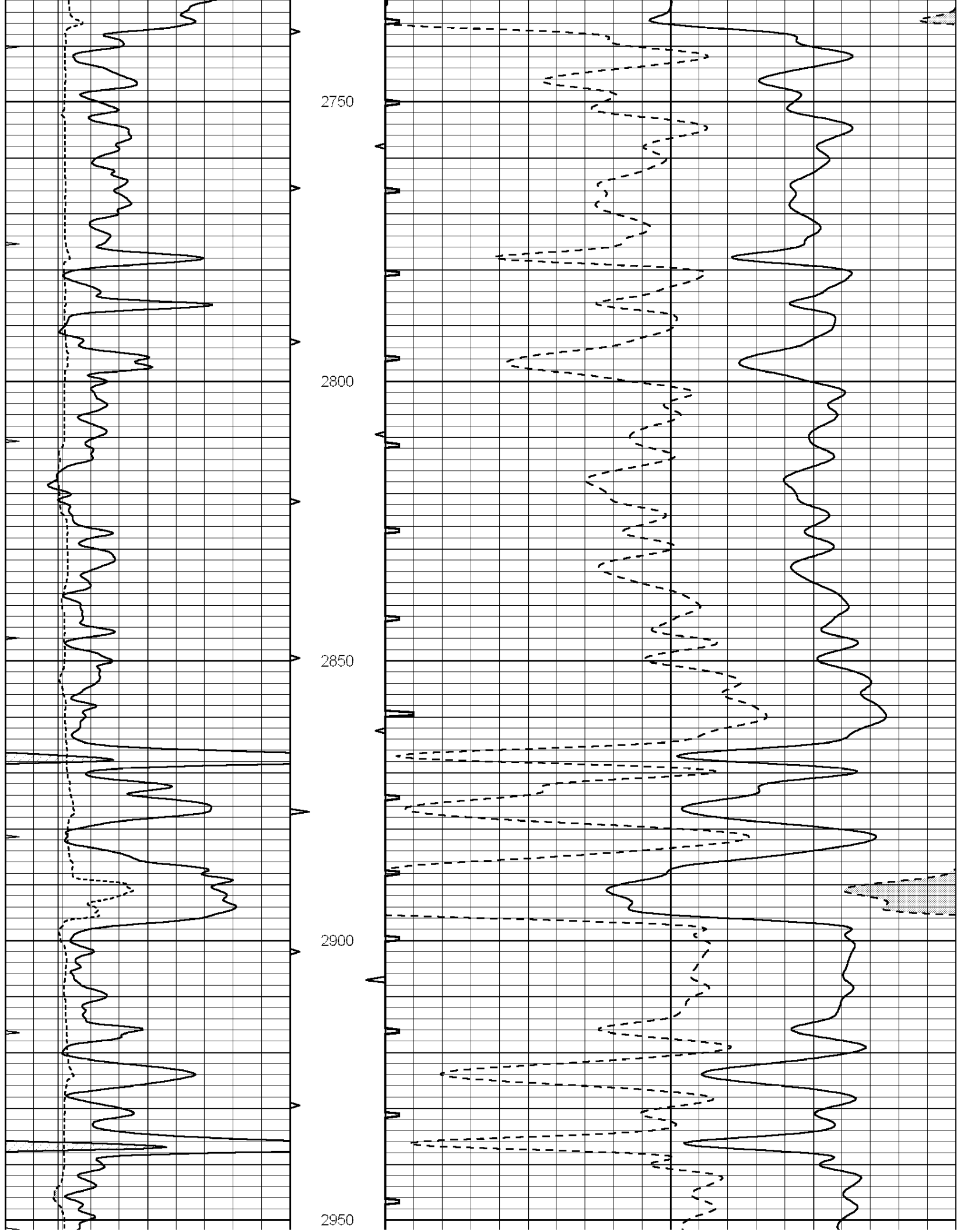


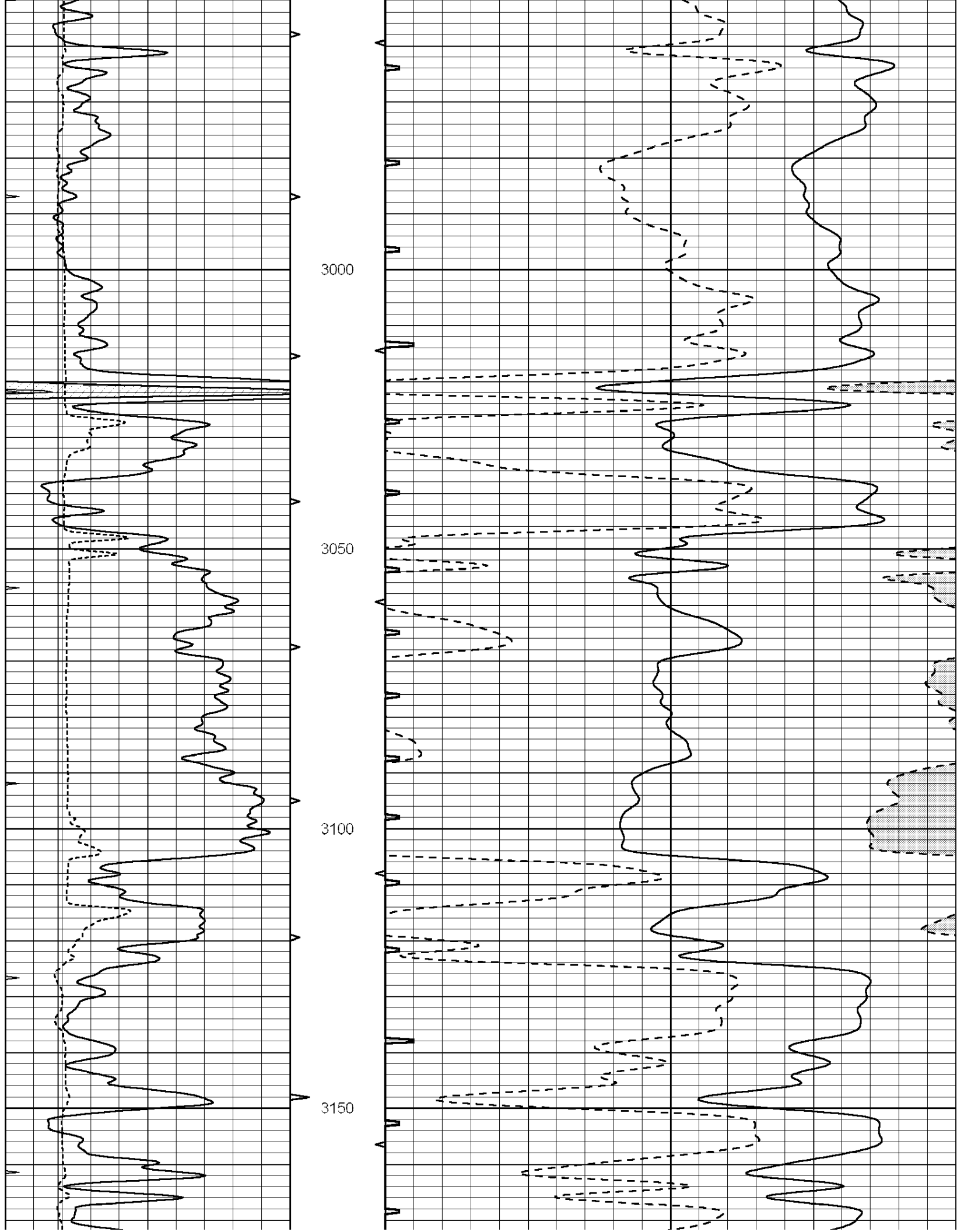


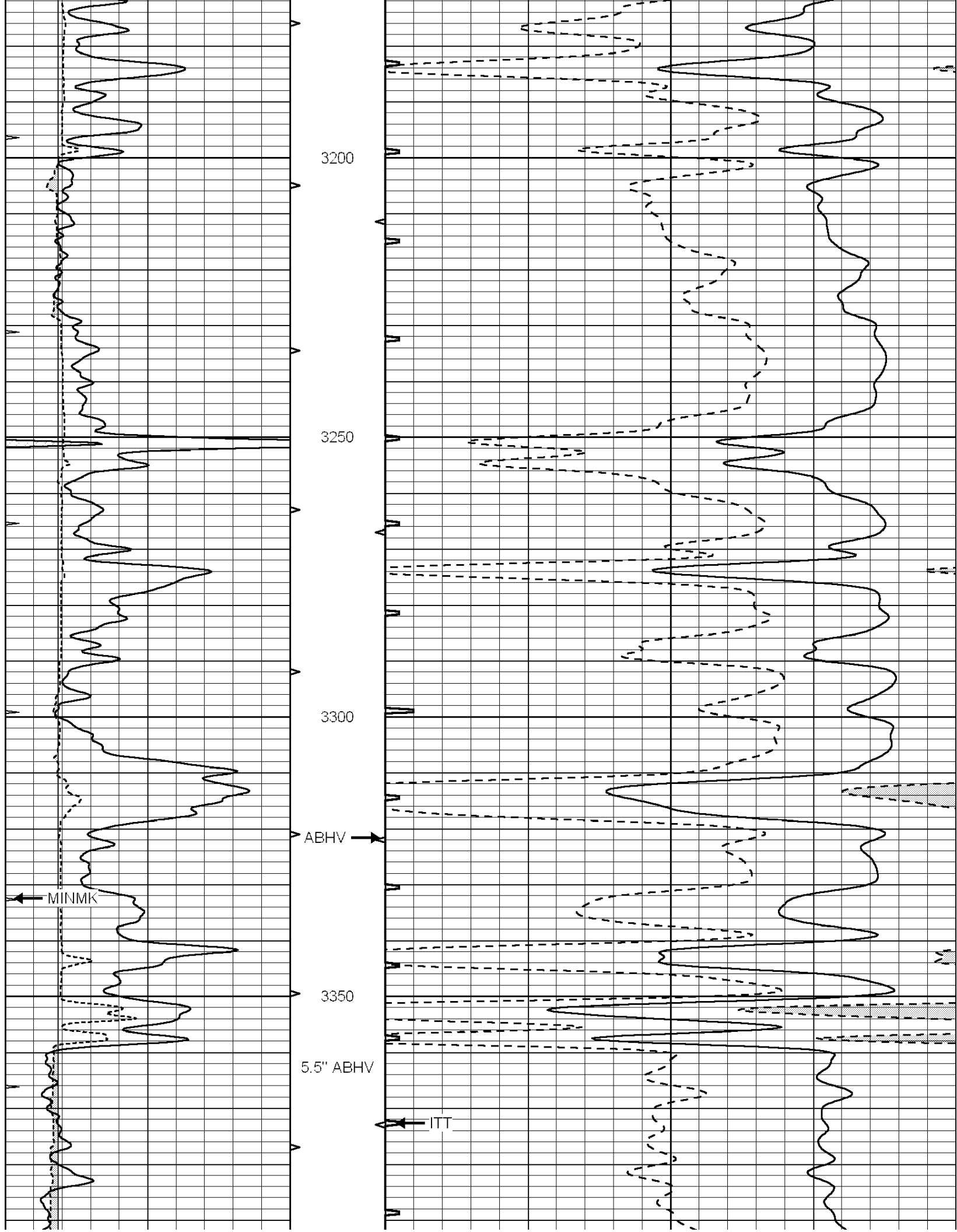


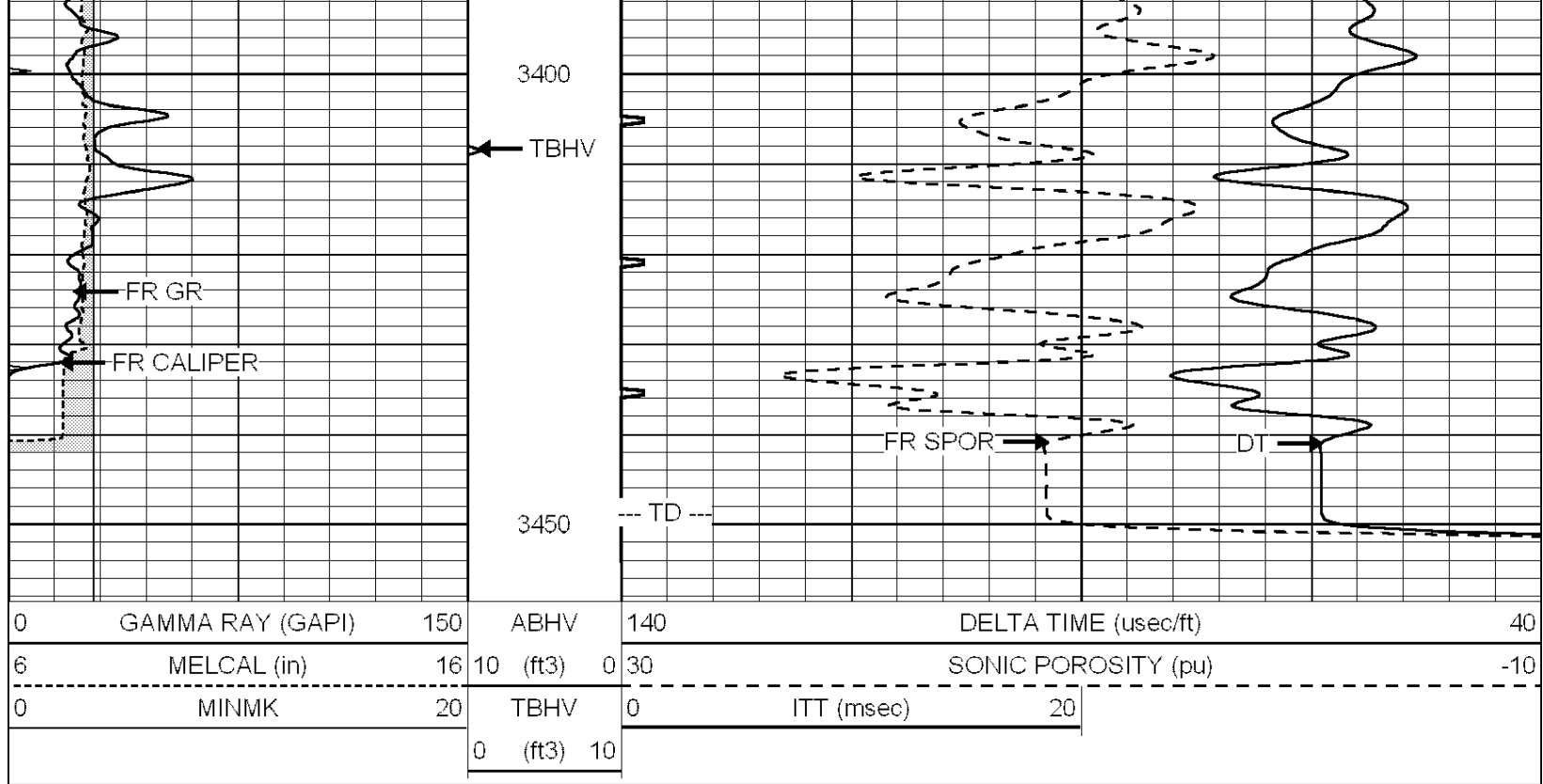










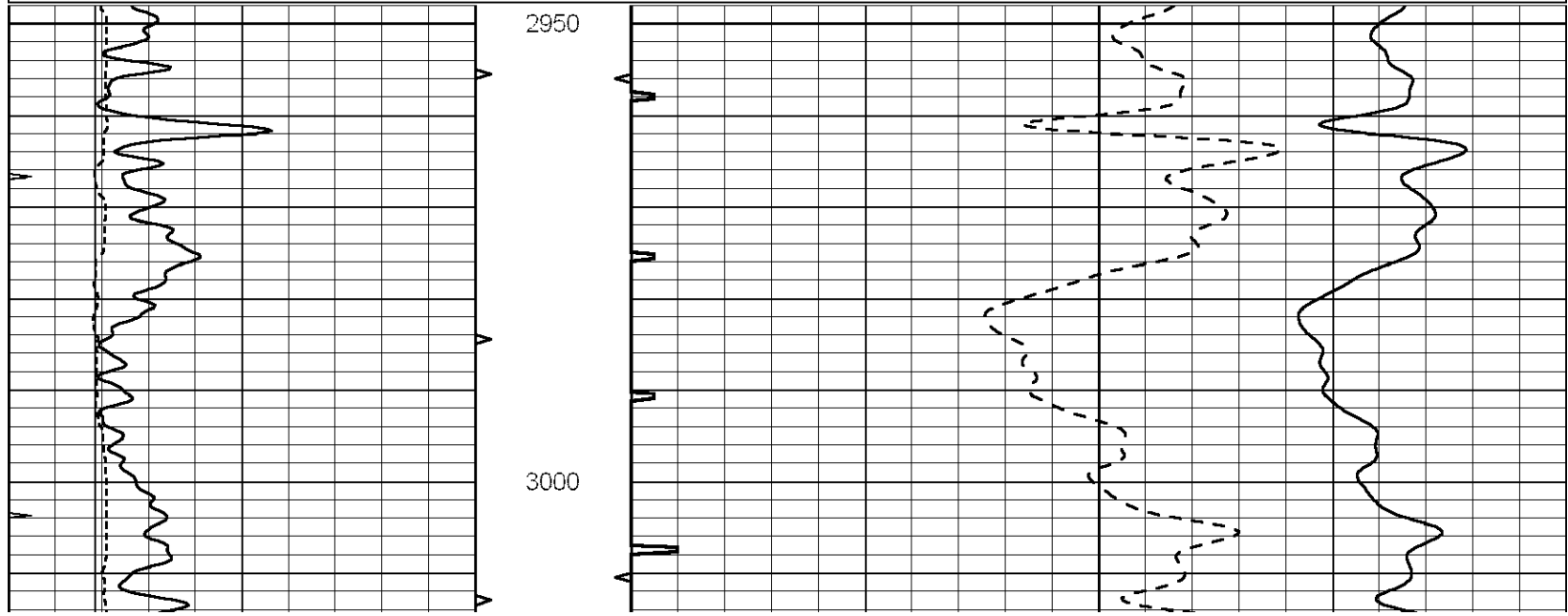


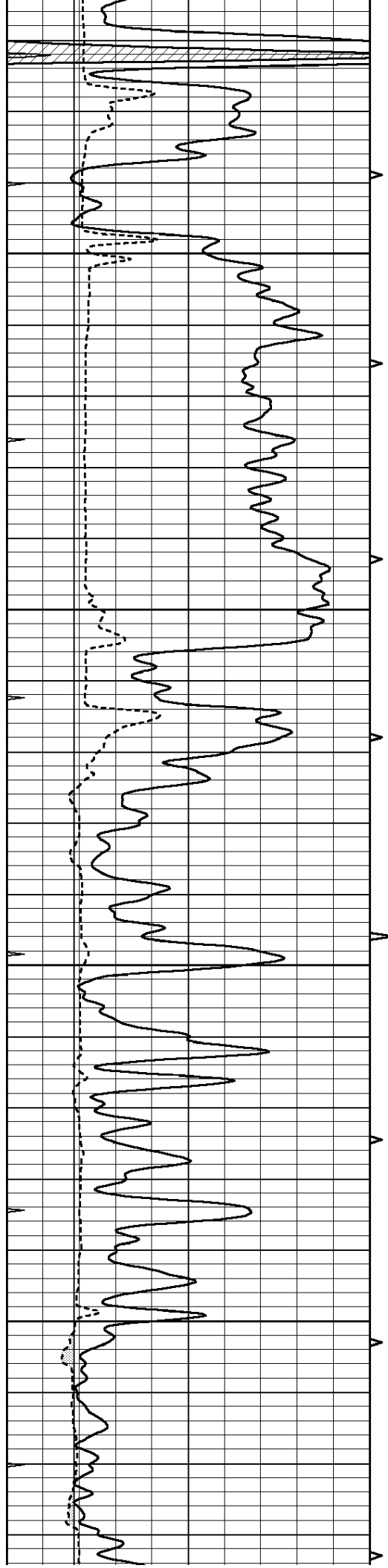
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File: 001214ddn.db
 Dataset Pathname: pass4.1
 Presentation Format: slt
 Dataset Creation: Tue Dec 13 17:30:36 2011 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	MELCAL (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			



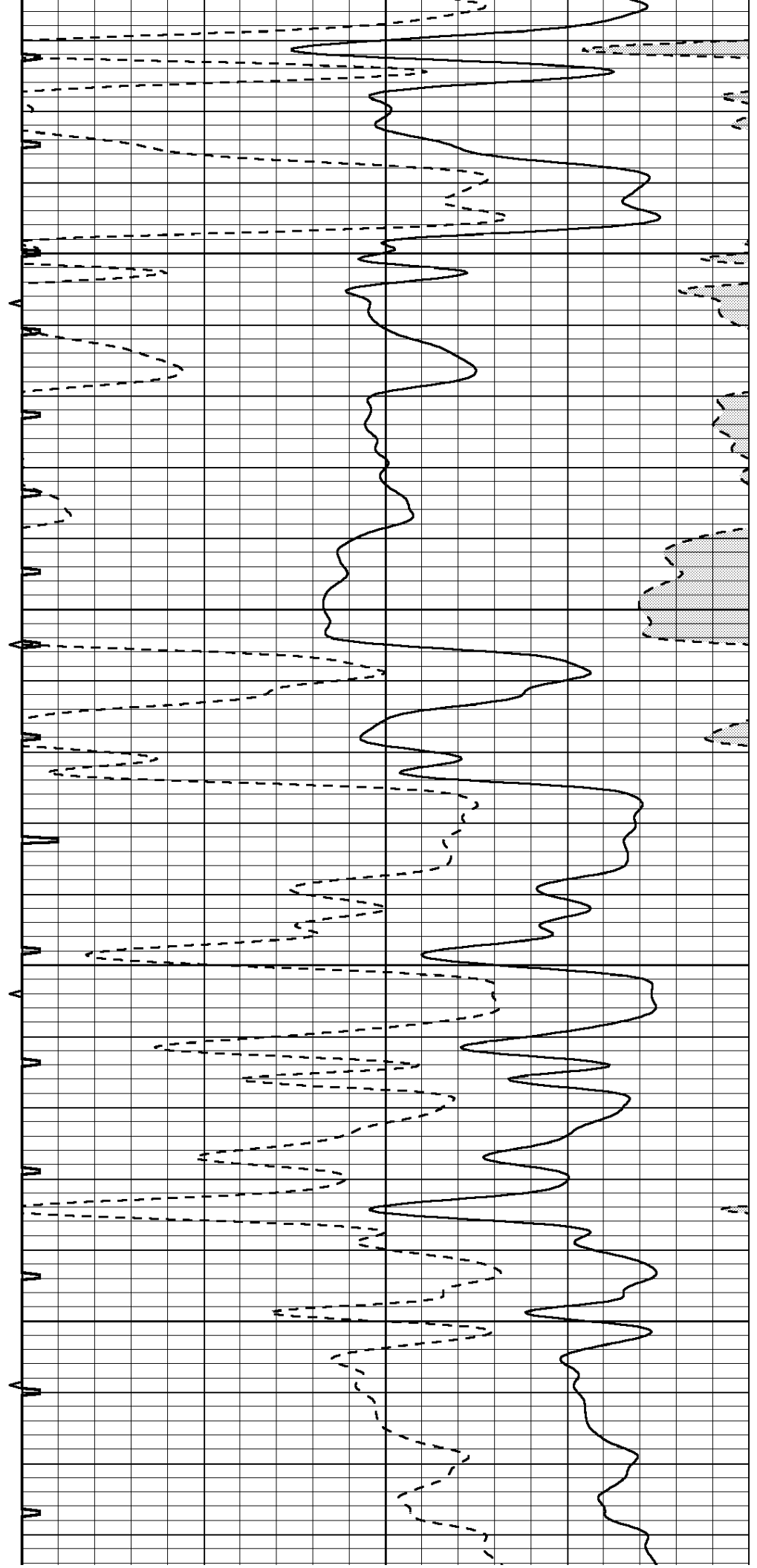


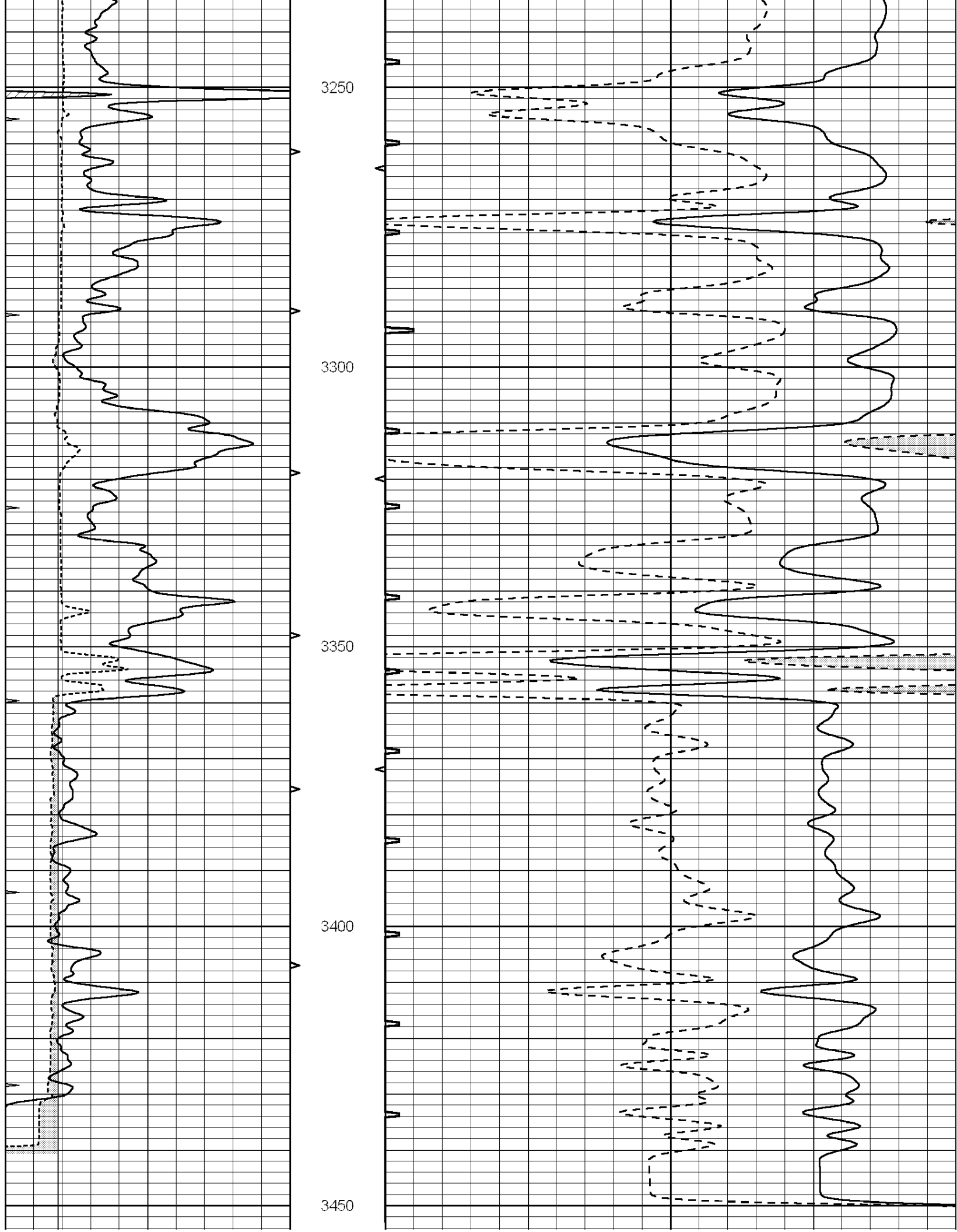
3050

3100

3150

3200





0	GAMMA RAY (GAPI)	150	ABHV	140	DELTA TIME (usec/ft)	40
6	MELCAL (in)	16	10 (ft3) 0	30	SONIC POROSITY (pu)	-10
0	MINMK	20	TBHV	0	ITT (msec)	20
			0 (ft3) 10			

JOB LOG

SWIFT Services, Inc.

DATE 11-14-11 PAGE NO.

CUSTOMER Carpus Knives LLC WELL NO. 23-23 LEASE Hoffman JOB TYPE Comment Logging TICKET NO. 20519

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0045					15.5*	5 1/2"	DN location with float equip - Rig change
	0240							over to run 5 1/2 15.5* set casing to 3442'
								Start casing - Insert float shoe w/ pack-off
								L.D. Ball 1 1/2" dia - 55-21 @ 3422' 5 1/2"
								Run 4-6-8-10-12 and basket #3
								Jt 13 + 20 cont. (81 JTs)
								Disc full up ball - 6 JTs and
	0740							Fin run casing - Top bottom
	0845							Start circ + Rehab casing
	0945							Fin circ
			6/4					RH-30 SKS WH-20 SKS
	0600	5	12				250	Mixed Flush
		6	20				250	KCL Flush
		5					200	Start 135 SKS 60/40 Pz 10% Salt
		4 1/4					250	3/4% CFR-1 + 1/4% SKS floccs
	0615							Fin cont - 1 Wash and Pump Line
	0625	9					350	Disc L.D. Plug - Start Displ 5 1/2 BBL
		7	45				300	Slow rate
		7	67				170	Caught down
		5	50				500	Slow rate
	0635						600/100	Plug Down - Hold - Release + Hold
	0645							Job Complete
								Wash up + Reel up Trk
	0730							Get on Hook @ AC location

Handwritten signature: Ron, Brian + Joe

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 191

Date	12-7-11	Sec.	23	Twp.	17	Range	13	County	Barton	State	Ks	On Location		Finish	5:15 PM
Lease	Hoffman Ranch			Well No.	23-23			Location	Hoisington - 2N, 2E, 1/4N, E/S						
Contractor	Maverick			108			Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job	Surface			T.D.	820'			Charge To	Caerus Kansas LLC.						
Hole Size	12 1/4"			Depth	822'			Street							
Csg.	8 5/8"			Depth				City	State						
Tbg. Size				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Tool				Shoe Joint	15'			Cement Amount Ordered	325 sx Common 3 1/2 LL						
Cement Left in Csg.	15'			Displace	51 BLS										
Meas Line															

EQUIPMENT

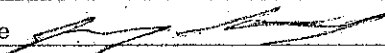
Pumptrk	1	No.	Cementer	Cisco	2 1/2 Gal
			Helper		Common 325
Bulktrk	13	No.	Driver	Cory	Poz. Mix
			Driver		Gel. 65
Bulktrk	1	No.	Driver	Rick	Calcium 12
			Driver		

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate				
Rat Hole	Hulls				
Mouse Hole	Salt				
Centralizers	Flowseal				
Baskets	Kol-Seal				
D/V or Port Collar	Mud CLR 48				
	CFL-117 or CD110 CAF 38				
	Sand				
	Handling 343				
	Mileage				

FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 - Rubber plug
	Pumptrk Charge Long Surface
	Mileage 17

X Signature 

Tax
Discount
Total Charge



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46213

DST#: 1

Test Start: 2011.12.10 @ 07:59:43

GENERAL INFORMATION:

Formation: **KC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:41:13

Time Test Ended: 12:20:13

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 47

Interval: 3112.00 ft (KB) To 3144.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3144.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press @ Run Depth: psig @ 3113.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.10 End Date: 2011.12.10

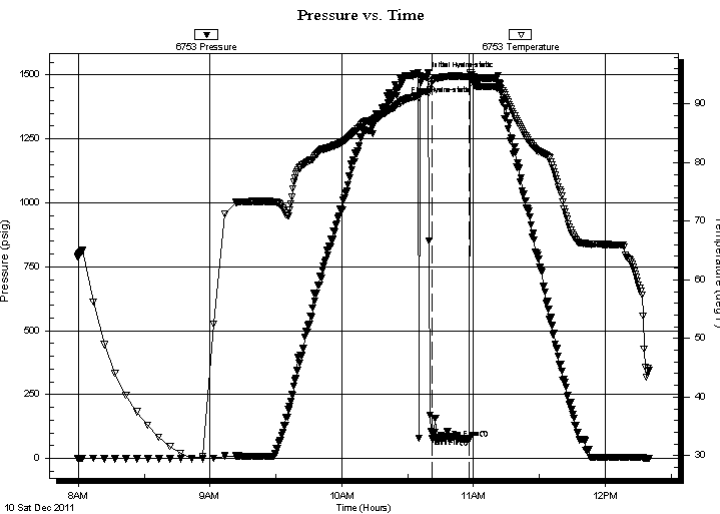
Last Calib.: 2011.12.10

Start Time: 07:59:48 End Time: 12:20:12

Time On Btm: 2011.12.10 @ 10:37:43

Time Off Btm: 2011.12.10 @ 11:02:13

TEST COMMENT: IF-Very weak surface blow tool slid 25ft



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1493.01	92.11	Initial Hydro-static
4	78.36	93.75	Open To Flow (1)
21	77.64	94.65	Shut-In(1)
25	1487.83	93.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
110.00	Mud	1.54

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46213

DST#: 1

ATTN: Jeff Lawler

Test Start: 2011.12.10 @ 07:59:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
110.00	Mud	1.543

Total Length: 110.00 ft Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

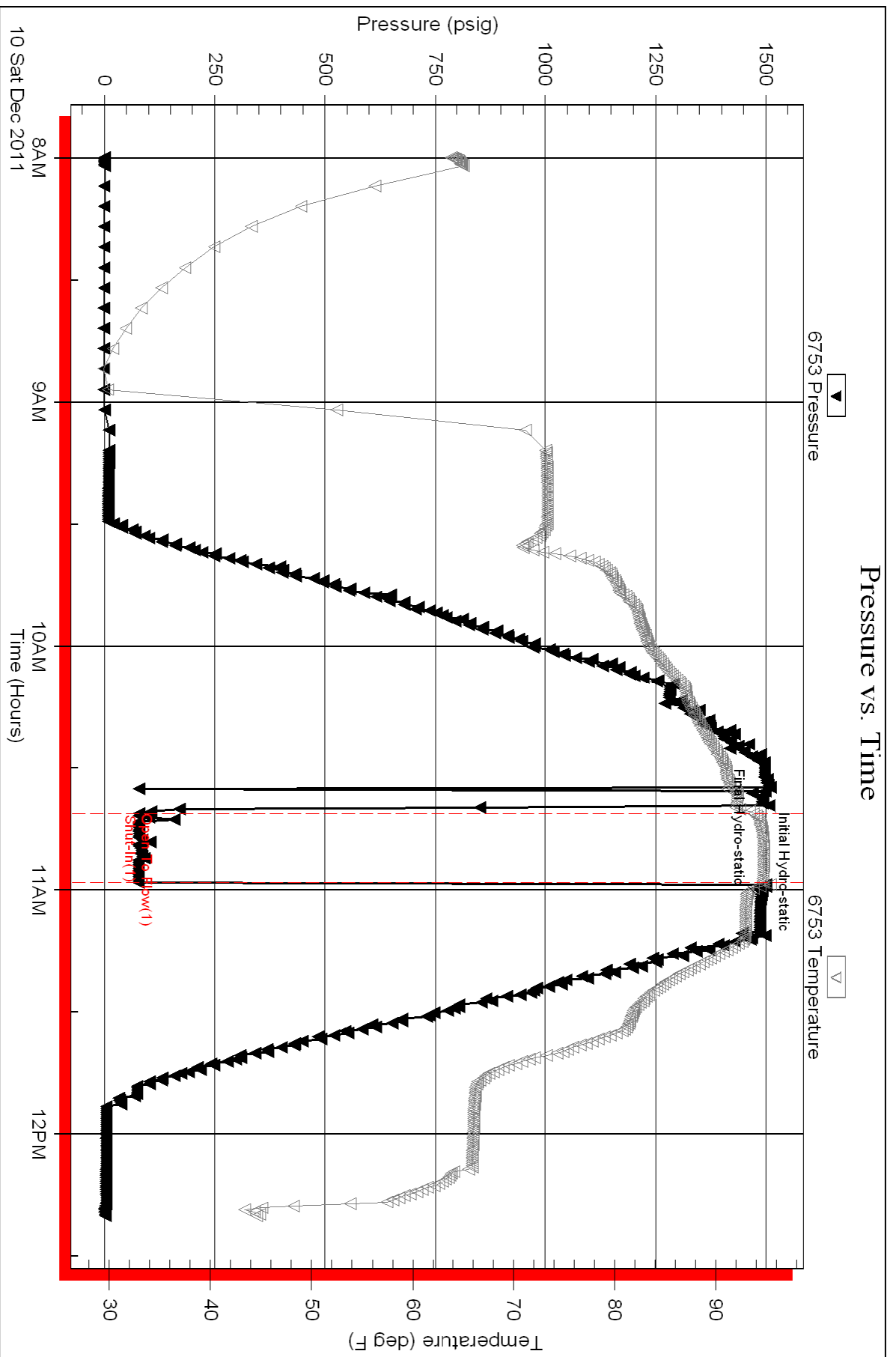
Serial #: 6753

Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46214

DST#: 2

Test Start: 2011.12.10 @ 16:10:15

GENERAL INFORMATION:

Formation: **KC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:21:45

Time Test Ended: 22:05:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 47

Interval: 3109.00 ft (KB) To 3144.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3144.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 9.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 27.48 psig @ 3110.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.10

End Date:

2011.12.10

Last Calib.: 2011.12.10

Start Time: 16:10:20

End Time:

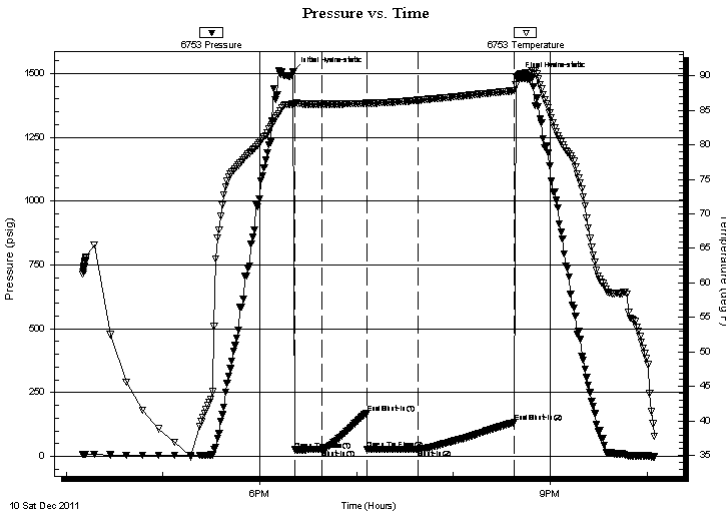
22:05:14

Time On Btm: 2011.12.10 @ 18:20:45

Time Off Btm: 2011.12.10 @ 20:40:15

TEST COMMENT: IF-1/4in blow
ISI-No blow
FF-Very weak surface blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1506.00	85.90	Initial Hydro-static
1	25.13	85.85	Open To Flow (1)
18	27.31	85.86	Shut-In(1)
46	167.57	86.02	End Shut-In(1)
46	26.70	85.98	Open To Flow (2)
78	27.48	86.45	Shut-In(2)
137	132.27	87.84	End Shut-In(2)
140	1486.99	90.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	mud	0.21

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46214

DST#: 2

ATTN: Jeff Lawler

Test Start: 2011.12.10 @ 16:10:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	mud	0.210

Total Length: 15.00 ft Total Volume: 0.210 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

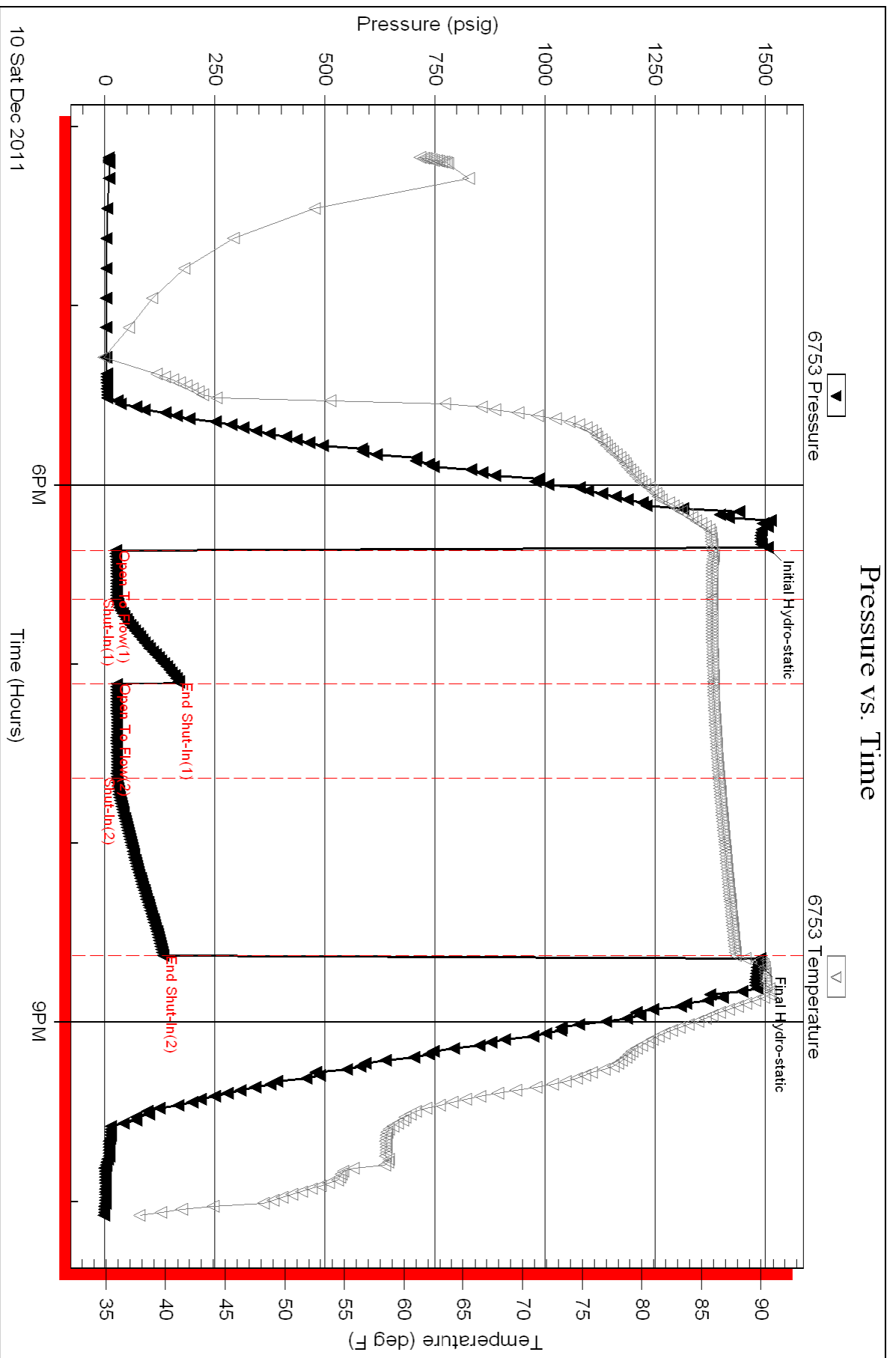
Serial #: 6753

Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 2





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46331

DST#: 3

Test Start: 2011.12.11 @ 08:26:00

GENERAL INFORMATION:

Formation: **LKC "C-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:43:30

Time Test Ended: 15:47:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

Interval: 3153.00 ft (KB) To 3196.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3196.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 42.88 psig @ 3191.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.11

End Date:

2011.12.11

Last Calib.:

2011.12.11

Start Time: 08:26:05

End Time:

15:46:59

Time On Btm:

2011.12.11 @ 09:43:00

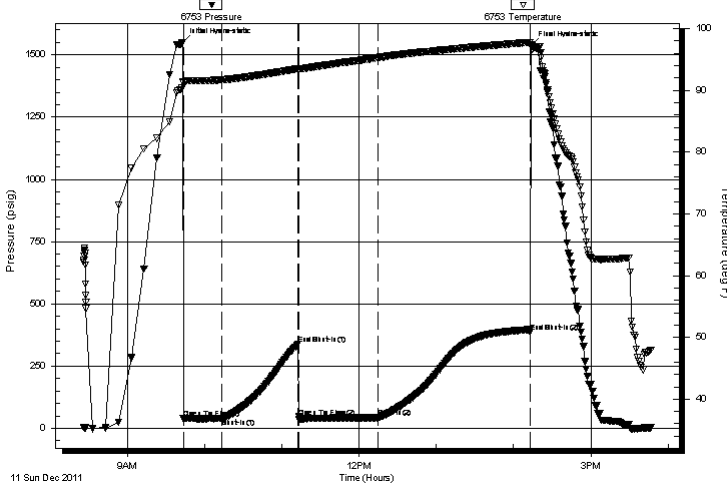
Time Off Btm:

2011.12.11 @ 14:13:30

TEST COMMENT:

- 30 - IF- 4" Blow
- 60 - IS- Weak surface blow , died in 15 Min.
- 60 - FF- B.O.B. in 31 Min.
- 120 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1550.14	91.33	Initial Hydro-static
1	38.75	91.18	Open To Flow (1)
31	40.00	91.72	Shut-In(1)
90	337.04	93.50	End Shut-In(1)
90	45.79	93.41	Open To Flow (2)
152	42.88	95.25	Shut-In(2)
270	387.66	97.78	End Shut-In(2)
271	1536.53	97.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	5%G, 25%O, 70%M	0.28
0.00	124' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46331

DST#: 3

ATTN: Jeff Lawler

Test Start: 2011.12.11 @ 08:26:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	5%G, 25%O, 70%M	0.281
0.00	124' of G.I.P.	0.000

Total Length: 20.00 ft Total Volume: 0.281 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6753

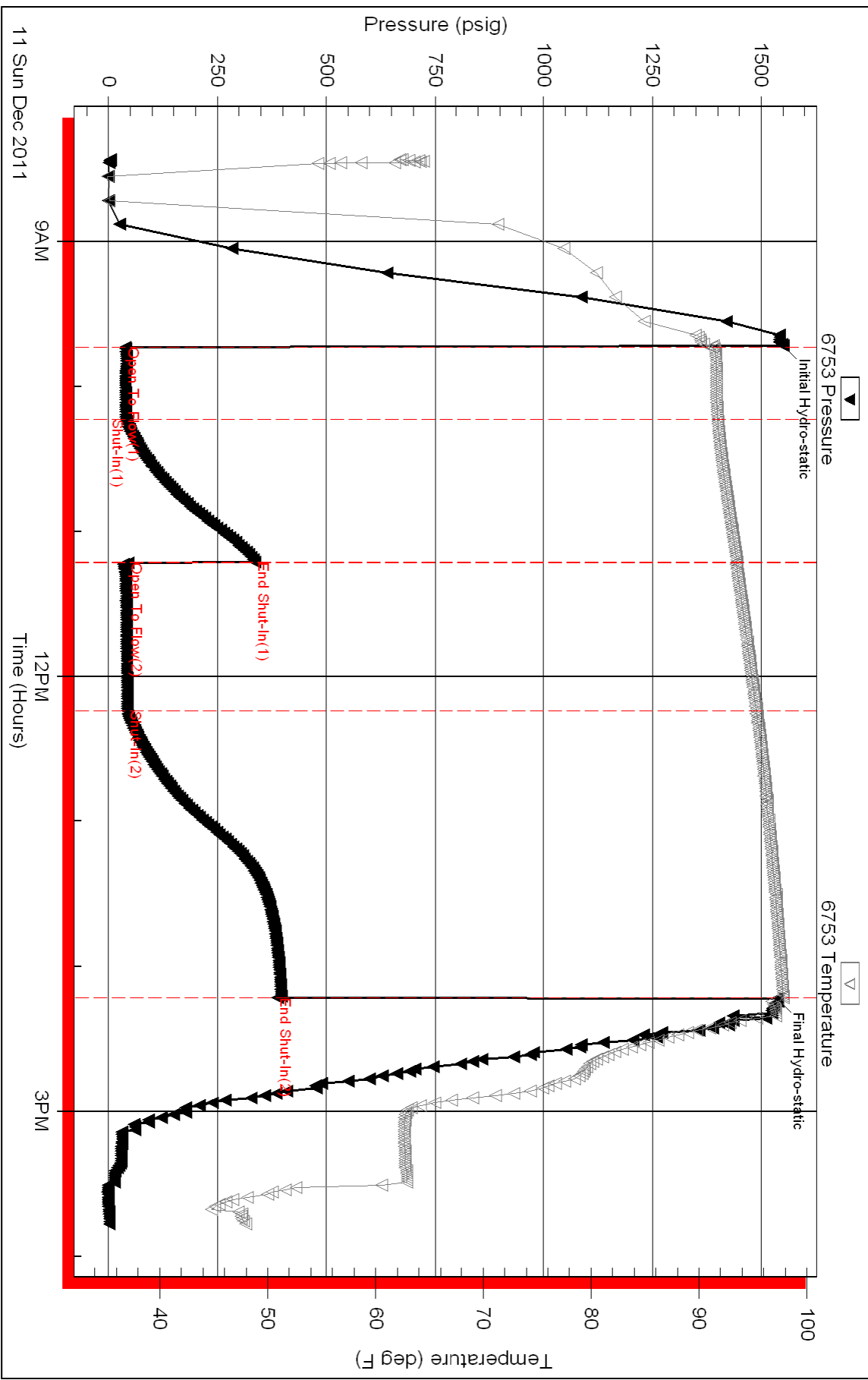
Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 46331

Printed: 2011.12.11 @ 19:39:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46332

DST#: 4

Test Start: 2011.12.11 @ 23:23:00

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:57:30

Time Test Ended: 05:12:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

Interval: 3193.00 ft (KB) To 3210.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3210.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 22.23 psig @ 3194.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.11

End Date:

2011.12.12

Last Calib.: 1899.12.30

Start Time: 23:23:05

End Time:

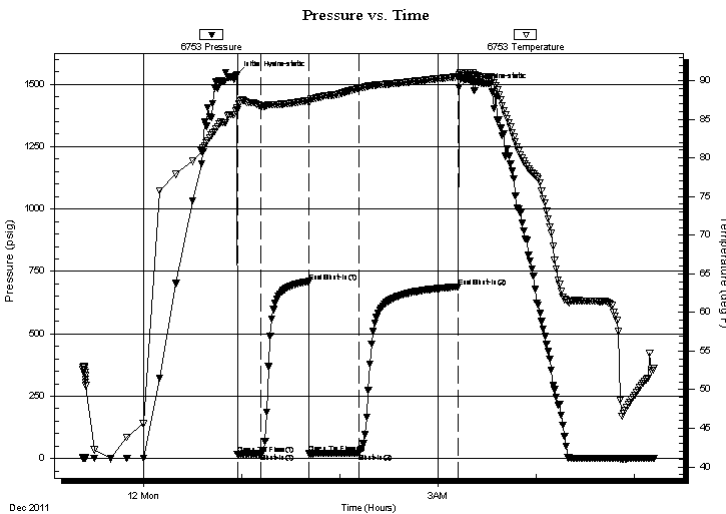
05:12:29

Time On Btm: 2011.12.12 @ 00:57:00

Time Off Btm: 2011.12.12 @ 03:13:00

TEST COMMENT: 15 - IF- 3/4" blow
30 - IS- No blow back
30 - FF- 1/4" blow
60 - FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1536.50	86.49	Initial Hydro-static
1	17.24	86.29	Open To Flow (1)
15	19.73	86.73	Shut-In(1)
44	709.33	87.42	End Shut-In(1)
45	19.60	87.17	Open To Flow (2)
75	22.23	89.02	Shut-In(2)
136	688.44	90.52	End Shut-In(2)
136	1487.11	90.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	VSOCM, 5%O, 95%M	0.14

* Recovery from multiple tests

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46332

DST#: 4

ATTN: Jeff Lawler

Test Start: 2011.12.11 @ 23:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	VSOCM, 5%O, 95%M	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

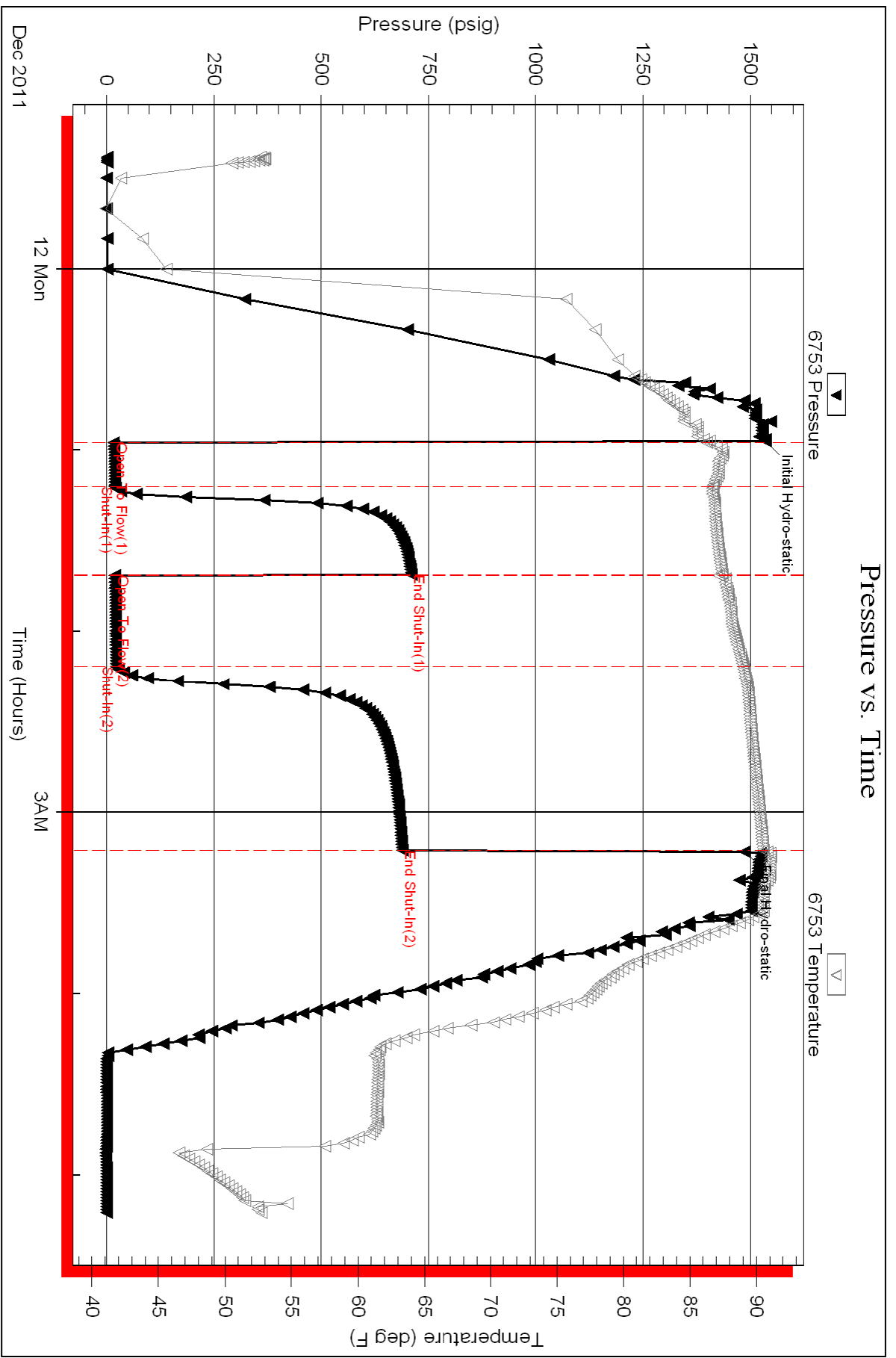
Serial #: 6753

Inside

Caerus Kansas LLC

Hoffman Ranch #23-23

DST Test Number: 4





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

ATTN: Jeff Lawler

Job Ticket: 46333

DST#: 5

Test Start: 2011.12.12 @ 21:49:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:18:30

Time Test Ended: 06:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 47

Interval: 3330.00 ft (KB) To 3369.00 ft (KB) (TVD)

Reference Elevations: 1865.00 ft (KB)

Total Depth: 3369.00 ft (KB) (TVD)

1856.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 6753 Inside

Press @ Run Depth: 324.77 psig @ 3366.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.12.12

End Date:

2011.12.13

Last Calib.:

2011.12.13

Start Time: 21:49:05

End Time:

06:04:59

Time On Btm:

2011.12.12 @ 23:17:30

Time Off Btm:

2011.12.13 @ 03:51:00

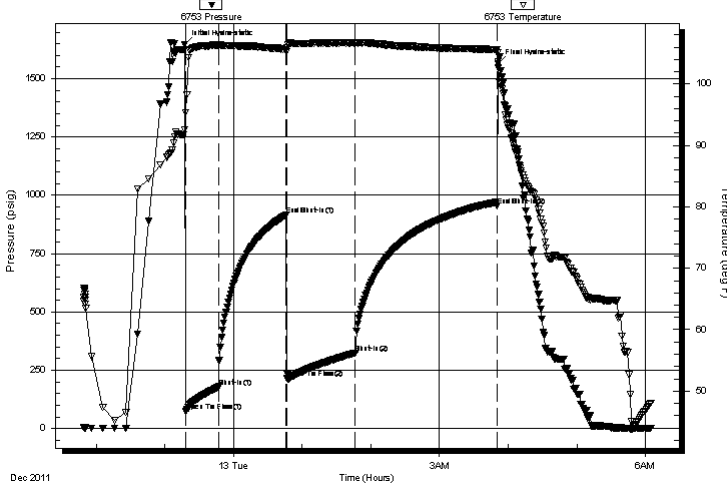
TEST COMMENT: 30 - IF- B.O.B. in 1 1/2 Min.

60 - IS- No blow back

60 - FF- B.O.B. in 5 Min.

120 - FS- No blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1646.68	92.50	Initial Hydro-static
1	75.49	95.28	Open To Flow (1)
30	179.32	106.33	Shut-In(1)
89	915.13	105.61	End Shut-In(1)
90	216.11	105.98	Open To Flow (2)
149	324.77	106.65	Shut-In(2)
273	954.24	105.61	End Shut-In(2)
274	1564.84	105.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	VSOCM, 5%O, 95%M	0.87
372.00	VSOCMW, 5%O, 30%M, 65%W	5.22
228.00	GVSOCM, 5%G, 5%O, 90%M	3.20
20.00	GO, 5%G, 95%O	0.28

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Caerus Kansas LLC

23-17-13, Barton, Ks

PO Box 1378
Hays Ks 67601

Hoffman Ranch #23-23

Job Ticket: 46333

DST#: 5

ATTN: Jeff Lawler

Test Start: 2011.12.12 @ 21:49:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

50000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	VSOCM, 5%O, 95%M	0.870
372.00	VSOCMW, 5%O, 30%M, 65%W	5.218
228.00	GVSOCM, 5%G, 5%O, 90%M	3.198
20.00	GO, 5%G, 95%O	0.281

Total Length: 682.00 ft Total Volume: 9.567 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

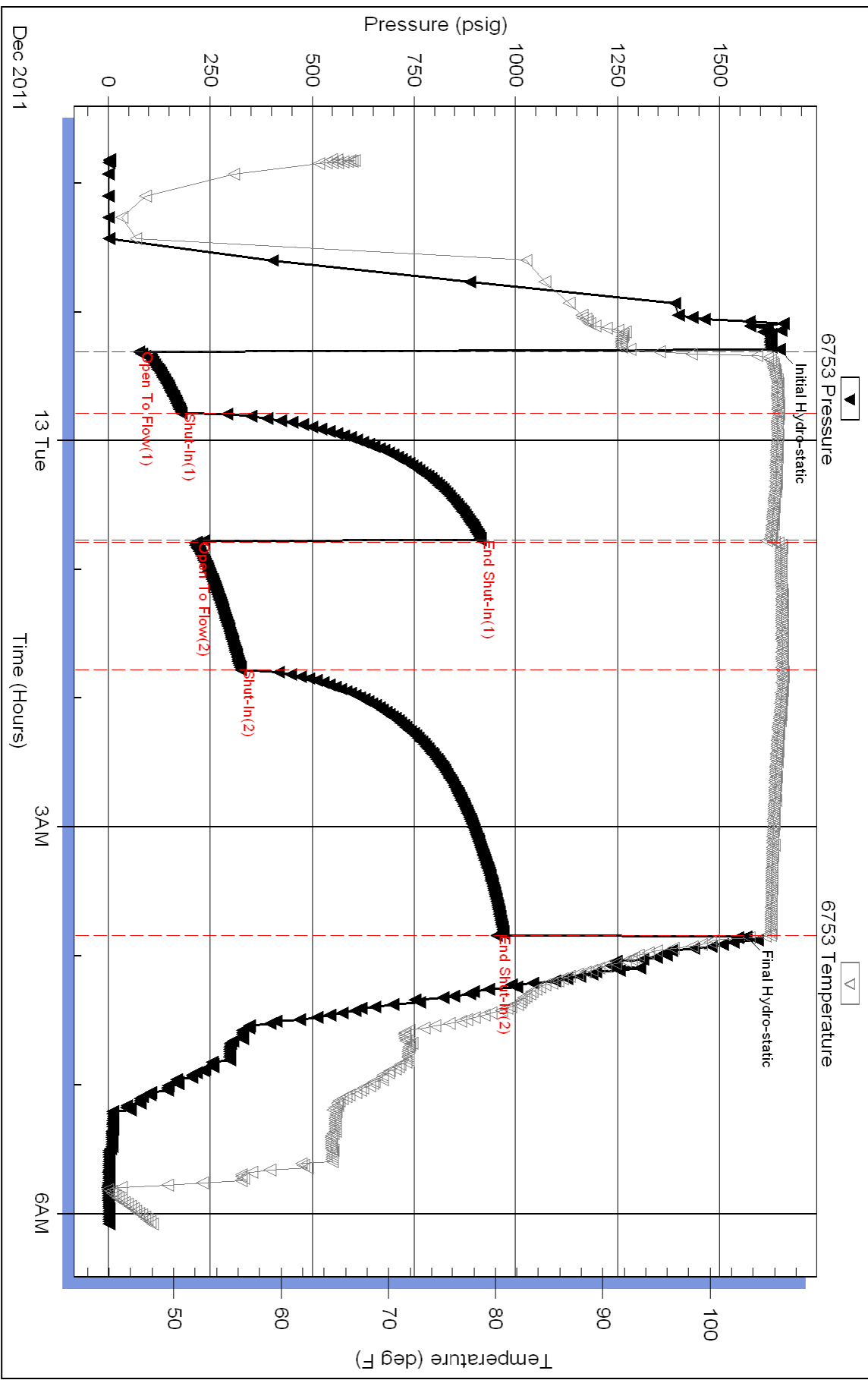
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity: .28 @ 38 Degrees = 50,000

Pressure vs. Time



Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

April 12, 2012

Amy Lay
Caerus Kansas LLC
600 17TH ST, STE 1600 N
DENVER, CO 80202

Re: ACO1
API 15-009-25639-00-00
Hoffman Ranch 23-23
SW/4 Sec.23-17S-13W
Barton County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Amy Lay

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
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April 12, 2012

Amy Lay
Caerus Kansas LLC
600 17TH ST, STE 1600 N
DENVER, CO 80202

Re: ACO-1
API 15-009-25639-00-00
Hoffman Ranch 23-23
SW/4 Sec.23-17S-13W
Barton County, Kansas

Dear Amy Lay:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 12/6/2011 and the ACO-1 was received on April 12, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department