



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 # 34110  
Name: Caerus Kansas LLC  
Address 1: 600 17TH ST, STE 1600 N  
Address 2: \_\_\_\_\_  
City: DENVER State: CO Zip: 80202 + \_\_\_\_\_  
Contact Person: Amy Lay  
Phone: ( 303 ) 565-4600  
CONTRACTOR: License # 34233  
Name: Maverick Drilling LLC  
Wellsite Geologist: Jeff Lawler  
Purchaser: Plains Marketing LP

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 #: \_\_\_\_\_

<u>12/6/2011</u>	<u>12/13/2011</u>	<u>2/22/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25639-00-00

Spot Description: \_\_\_\_\_  
NE SW NE SW Sec. 23 Twp. 17 S. R. 13  East  West  
1795 Feet from  North /  South Line of Section  
1814 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW

County: Barton  
Lease Name: Hoffman Ranch Well #: 23-23

Field Name: Hoisington East  
Producing Formation: Arbuckle

Elevation: Ground: 1857 Kelly Bushing: 1866  
Total Depth: 3450 Plug Back Total Depth: 3415  
Amount of Surface Pipe Set and Cemented at: 819 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: 5000 ppm Fluid volume: 160 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Caerus Kansas LLC  
Lease Name: Demel #2-15 SWD License #: 34110  
Quarter NW Sec. 15 Twp. 17 S. R. 13  East  West  
County: Barton Permit #: 30,318

**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: 04/12/2012

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I     II     III Approved by: NAOMI JAMES Date: 04/12/2012



1078700

Operator Name: Caerus Kansas LLC Lease Name: Hoffman Ranch Well #: 23-23  
 Sec. 23 Twp. 17 S. R. 13  East  West County: Barton

**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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral	778	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3020	
Electric Log Submitted Electronically <i>(If no. Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3120	
		Arbuckle	3360	

List All E. Logs Run:  
**Attached**

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	819	60/40 Poz	325	2% gel 3% CC
Production	7.875	5.5	15.5	3443	60/40 Poz	125	10% salt, 5% gilsonite, 3/4% FF

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	-			
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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
4	3359-3365	150 15% mud acid	
6	3258-3260	780 gal 20% NE	
6	3168-3171	1014 gal 20% NE	
6	3132-3136	625 gal 20% NE	
6	3126-3128	625 gal 20% NE	

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>3409'</u>	Packer At:	Liner Run: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>2/22/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>6</u>	Gas Mcf	Water Bbls.	Gas-Oil Ratio <u>35</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3126'-3365'</u>
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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	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		Other Services CDL/CNL SONIC/MEL
SEC 123 TWP 17S RGE 13W		Elevation
Permanent Datum	GROUND LEVEL	Elevation 1856
Log Measured From	KELLY BUSHING 9' A.G.L.	K.B. 1865
Drilling Measured From	KELLY BUSHING	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	
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 >>>

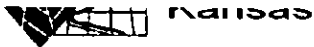
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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



# MAIN SECTION



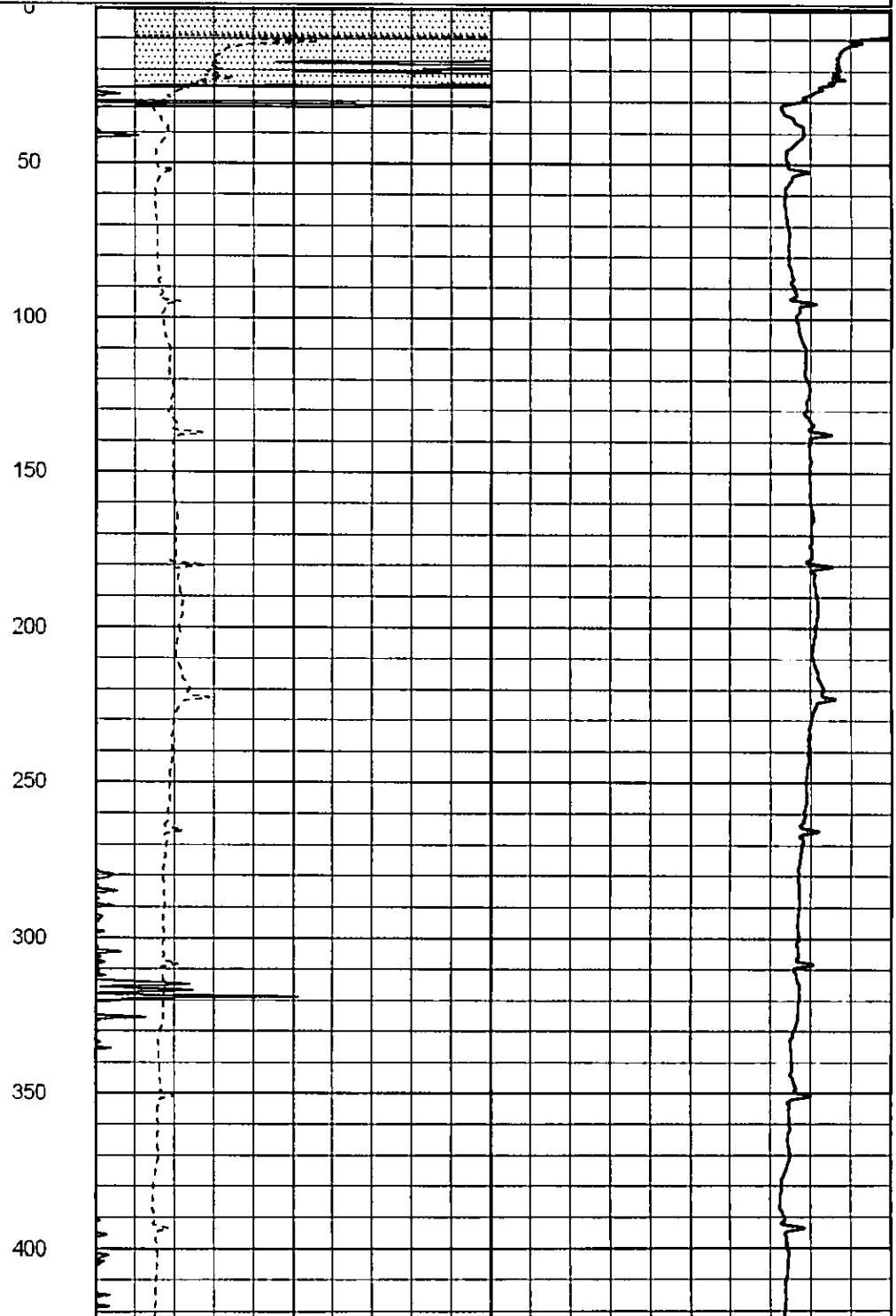
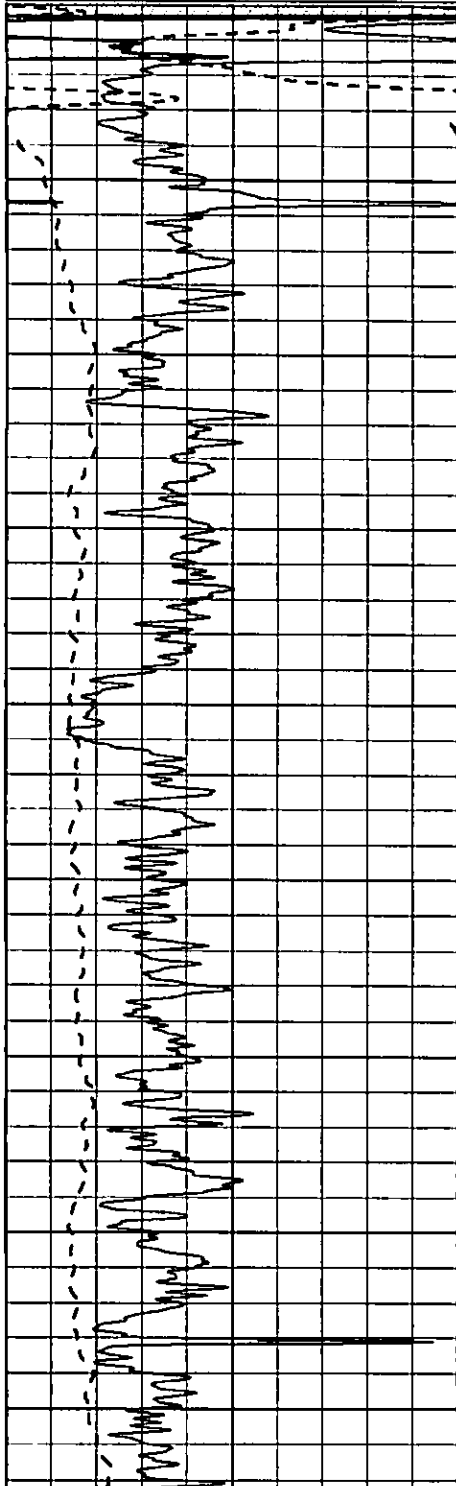
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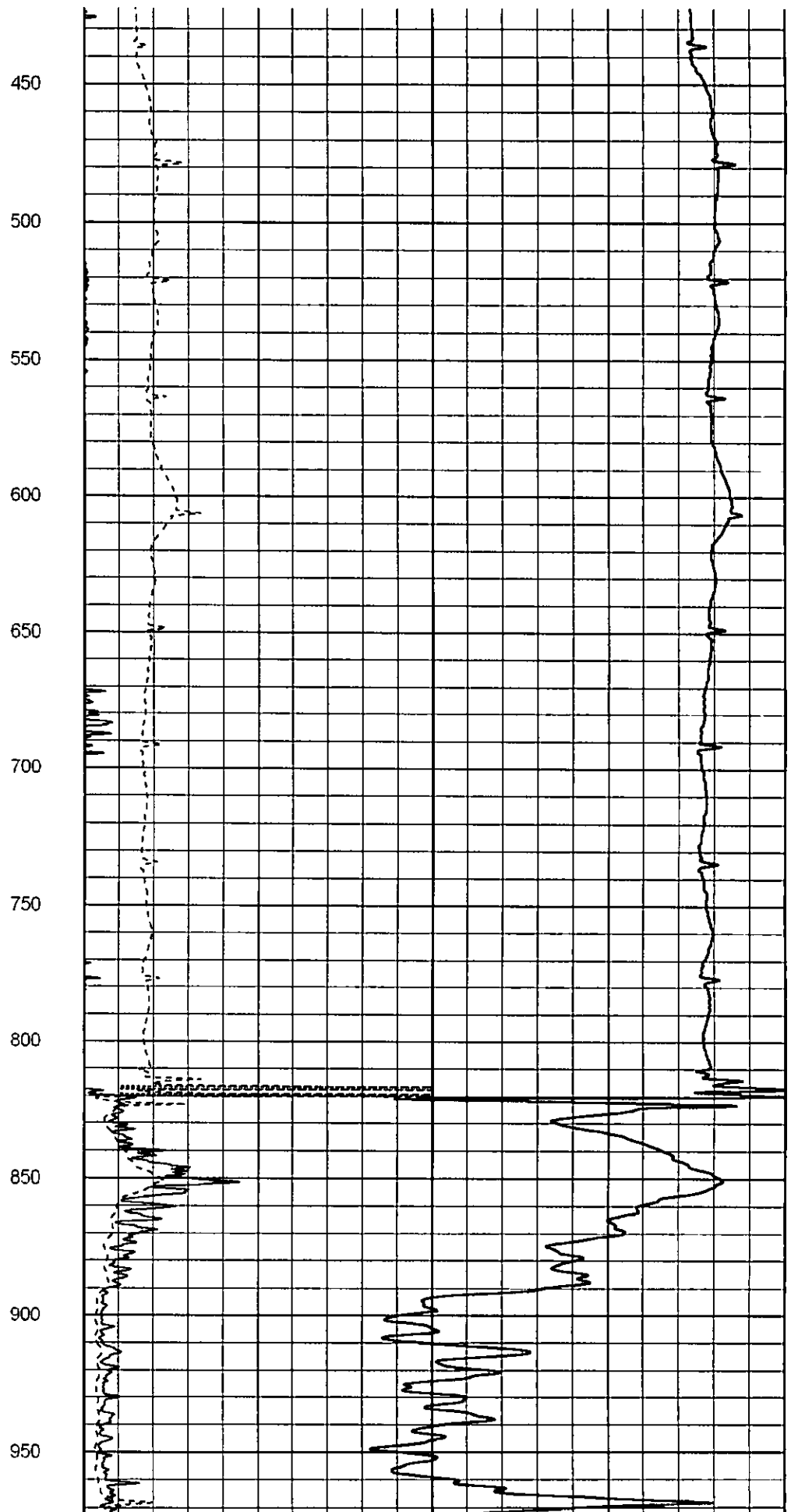
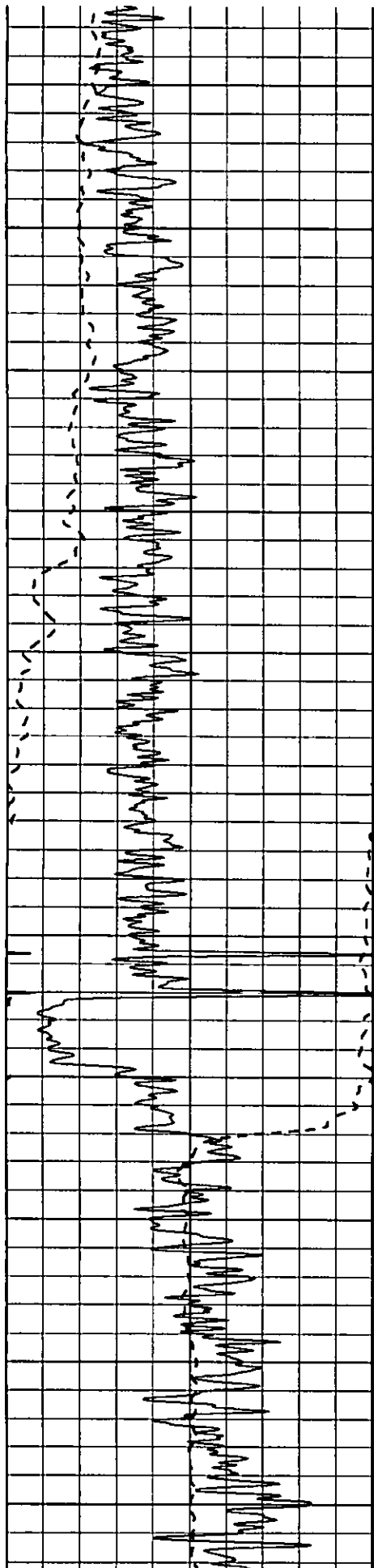
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-100	SP (mV)	100

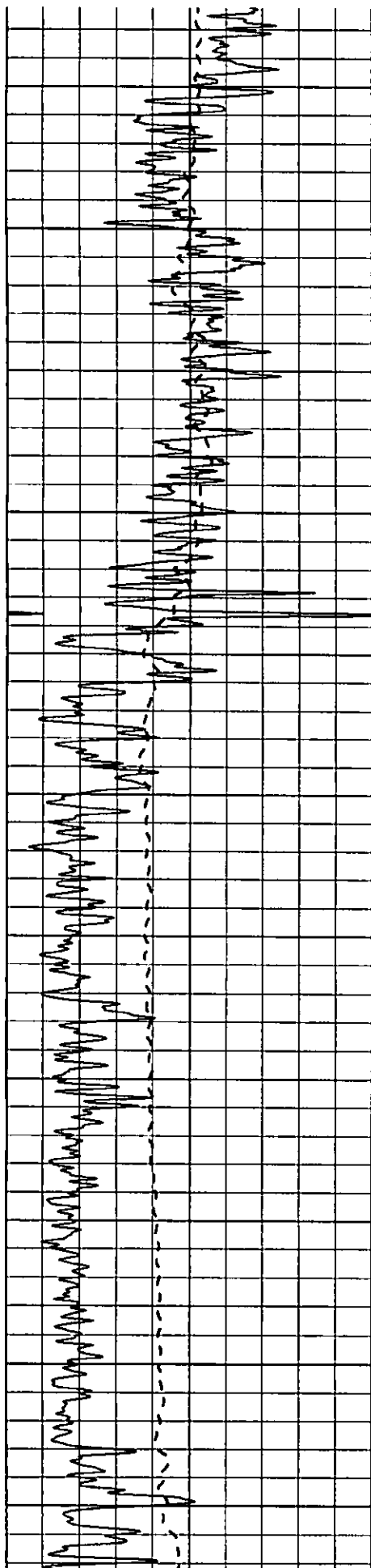
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0	Deep Induction (Ohm-m)	50

1000 CILD (mmho/m) 0

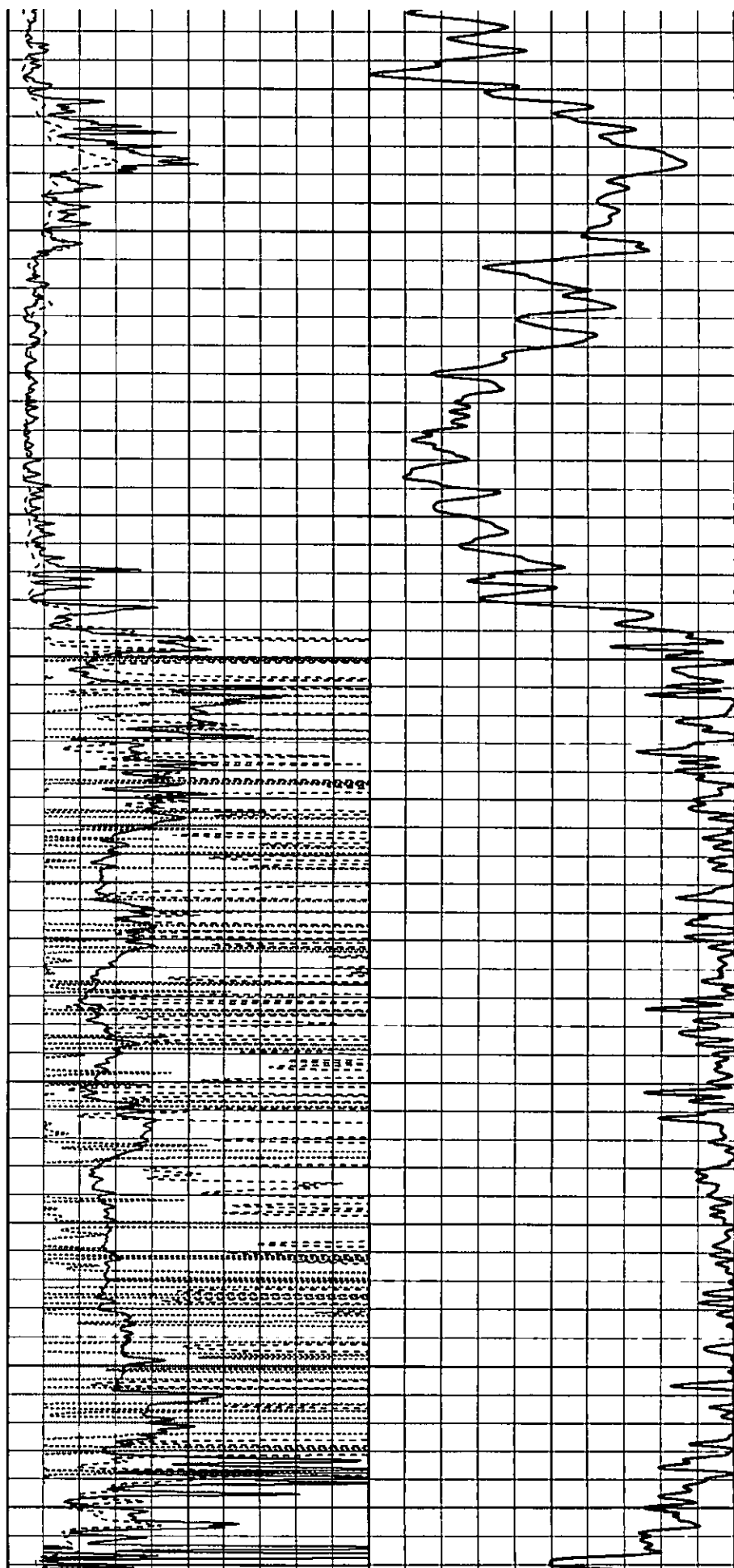
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50	RLL3 X10 (Ohm-m)	500

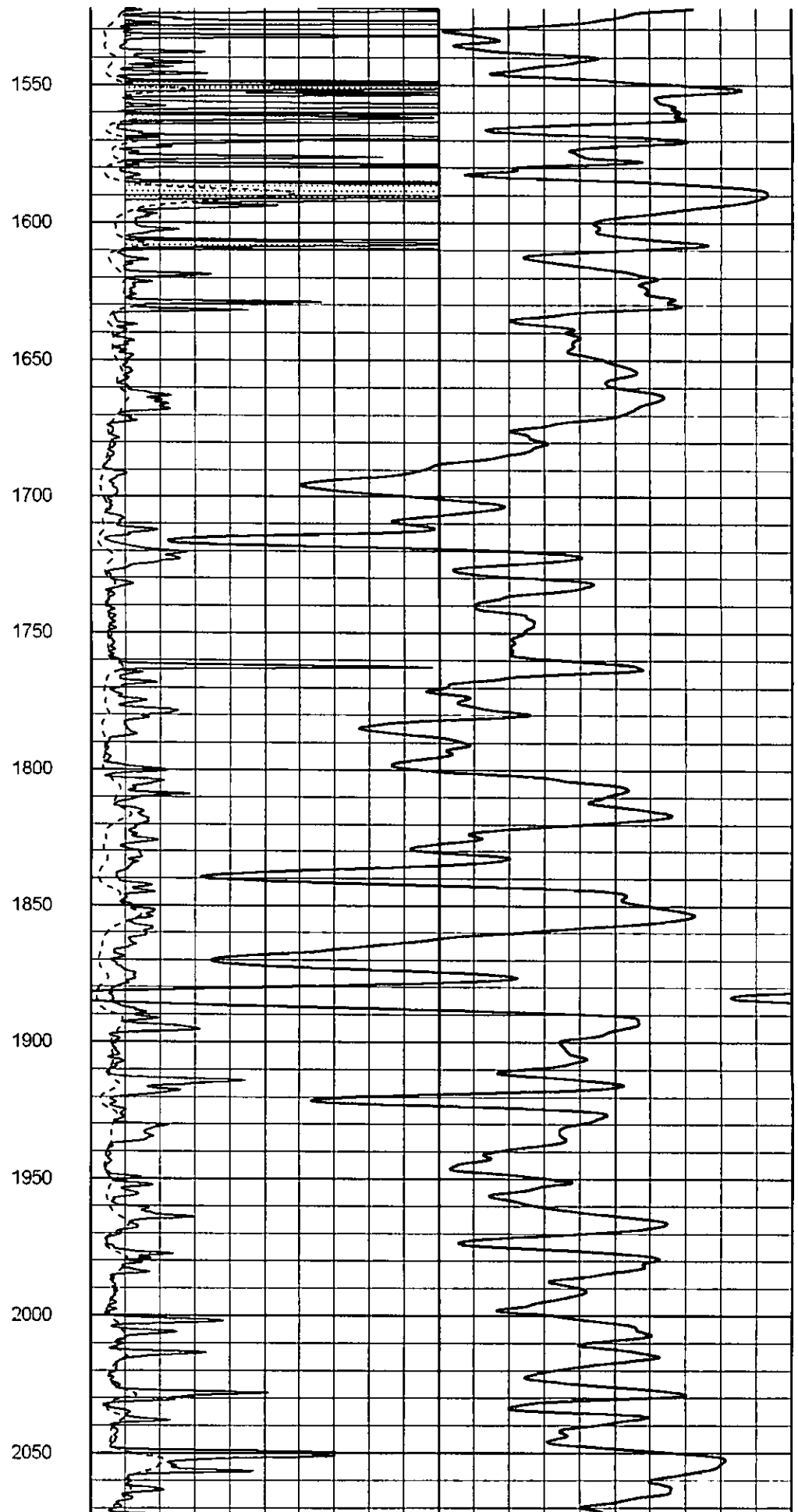
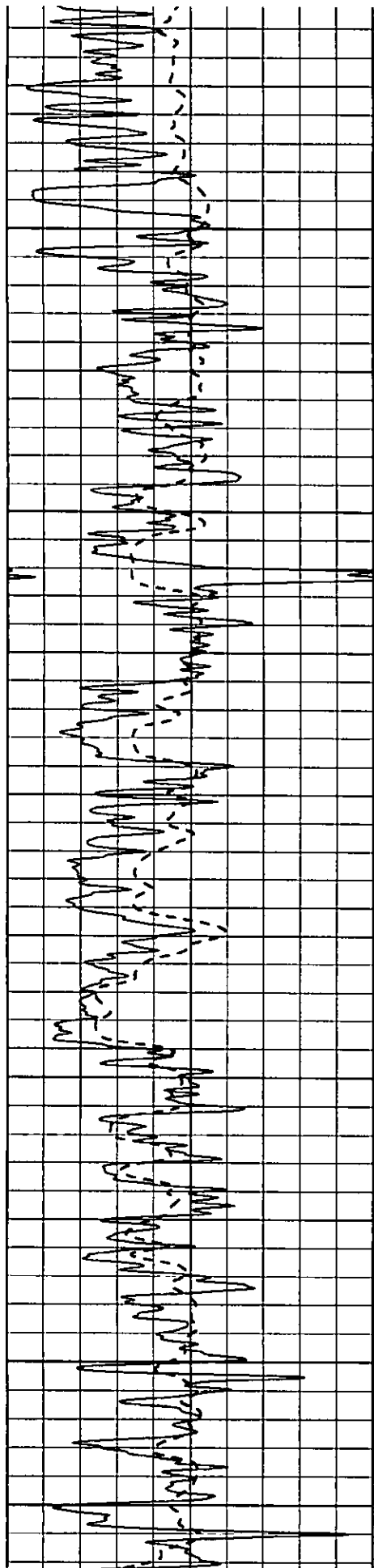




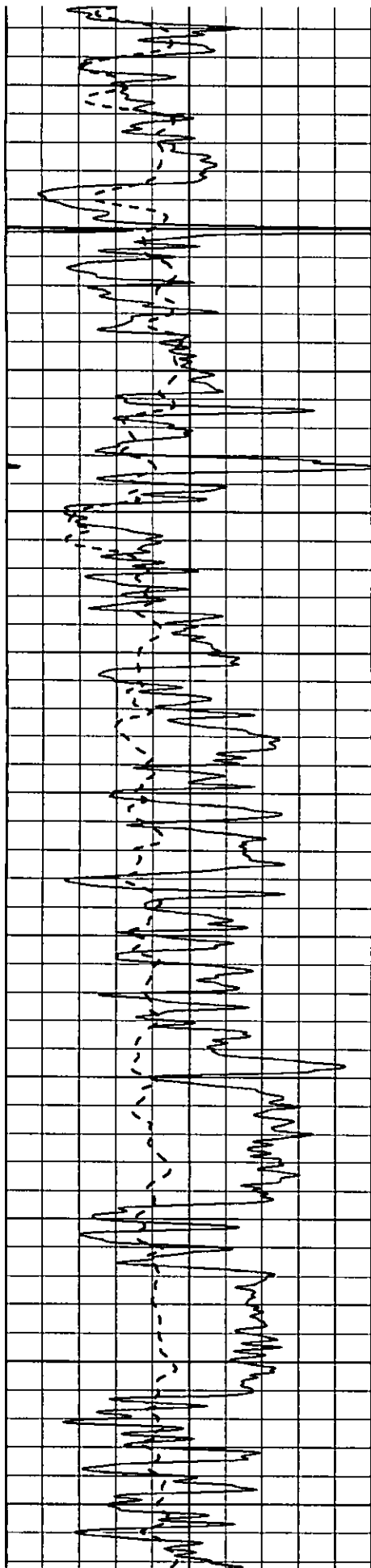


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1050  
1100  
1150  
1200  
1250  
1300  
1350  
1400  
1450  
1500

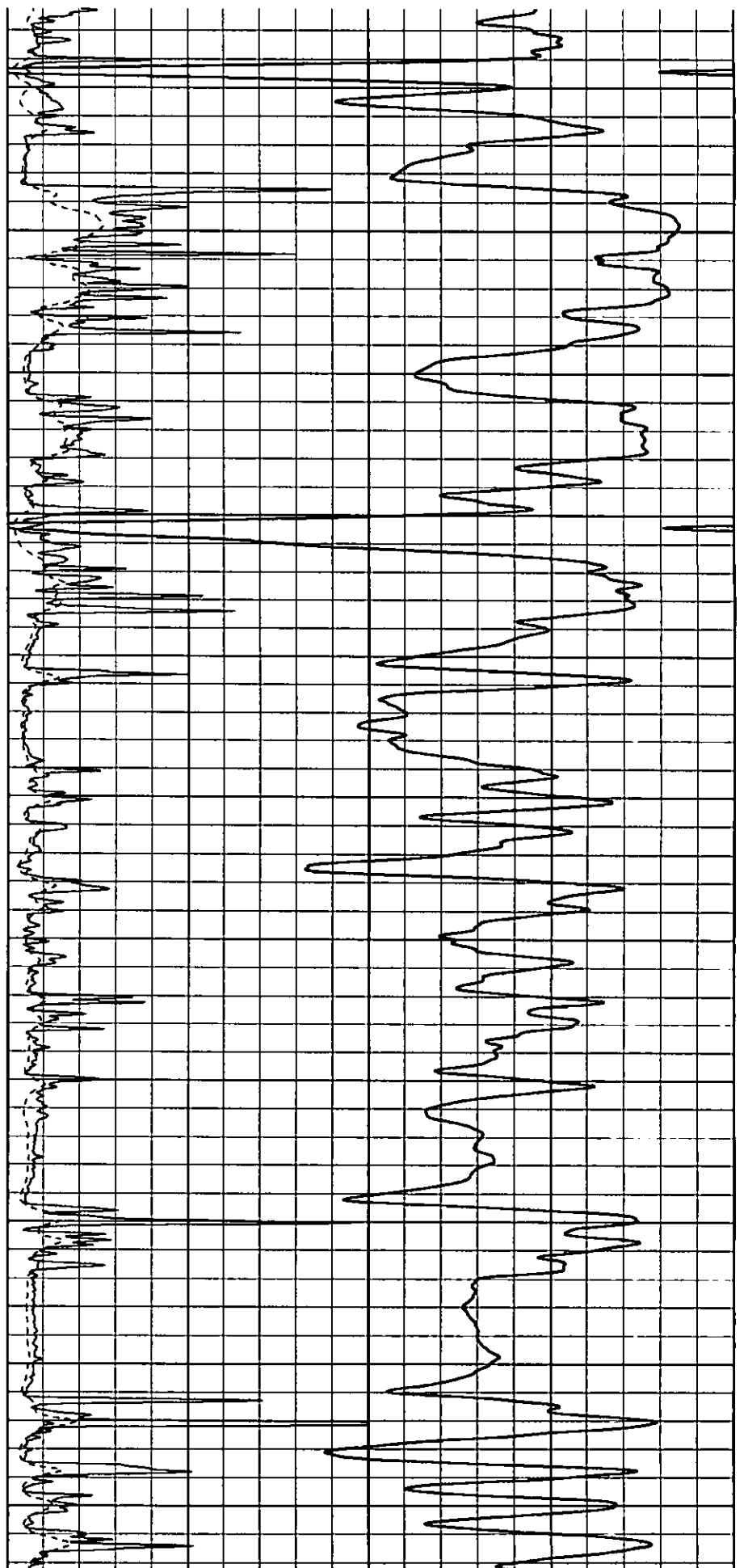


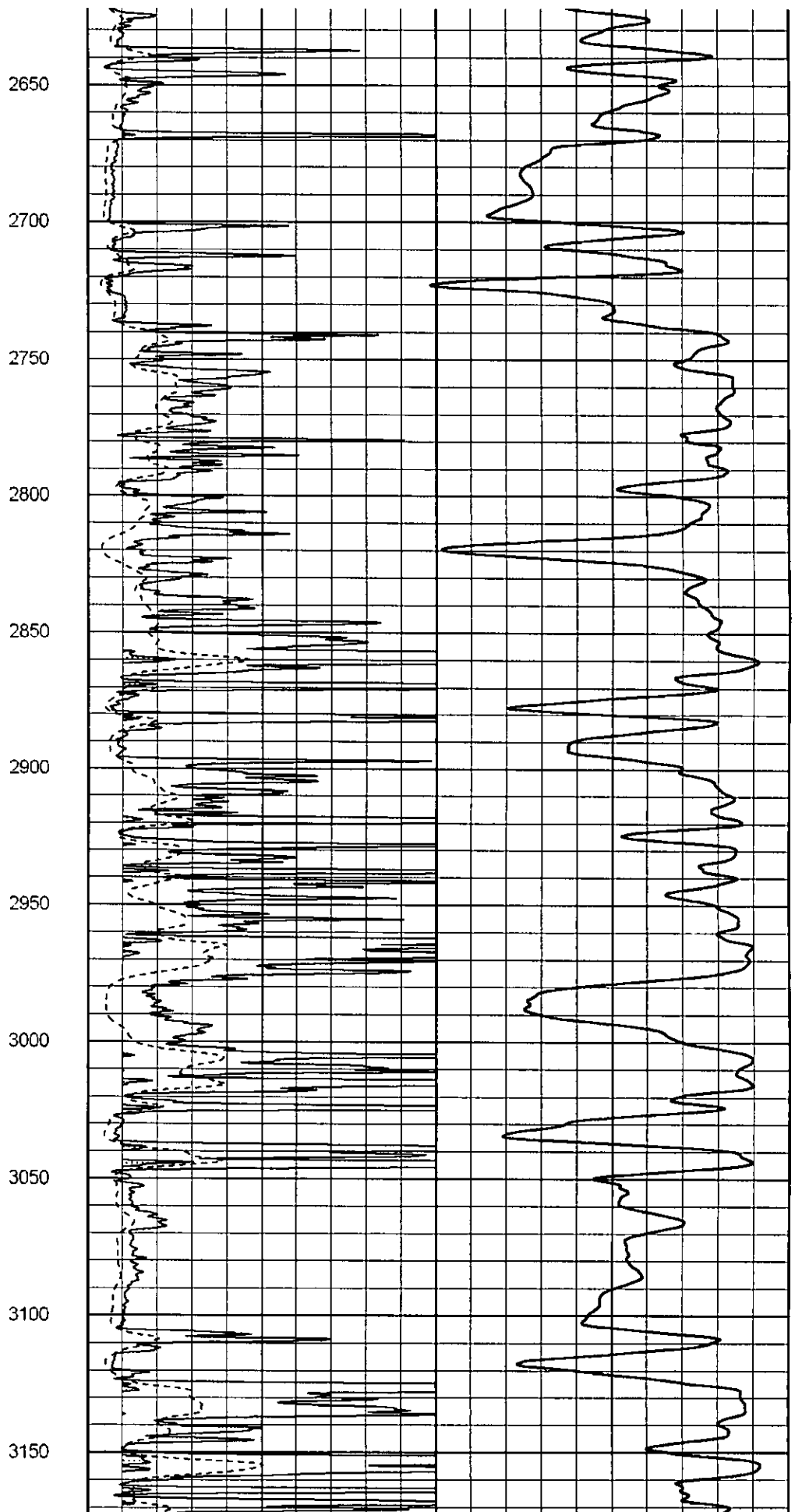
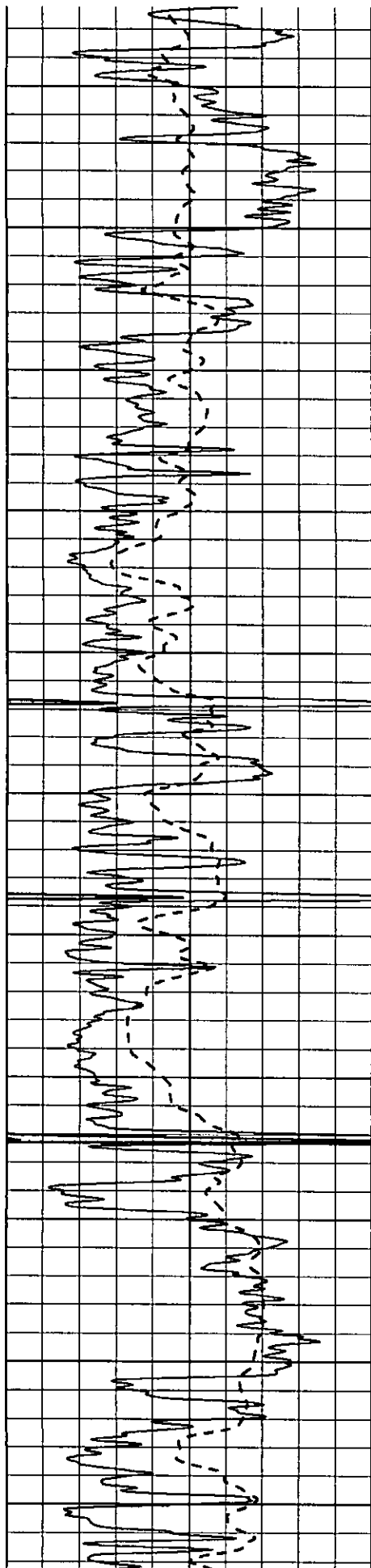


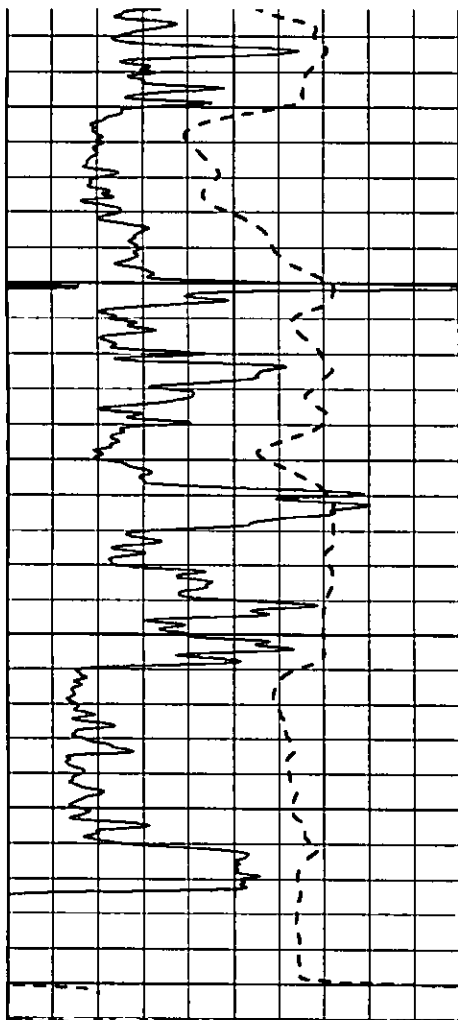




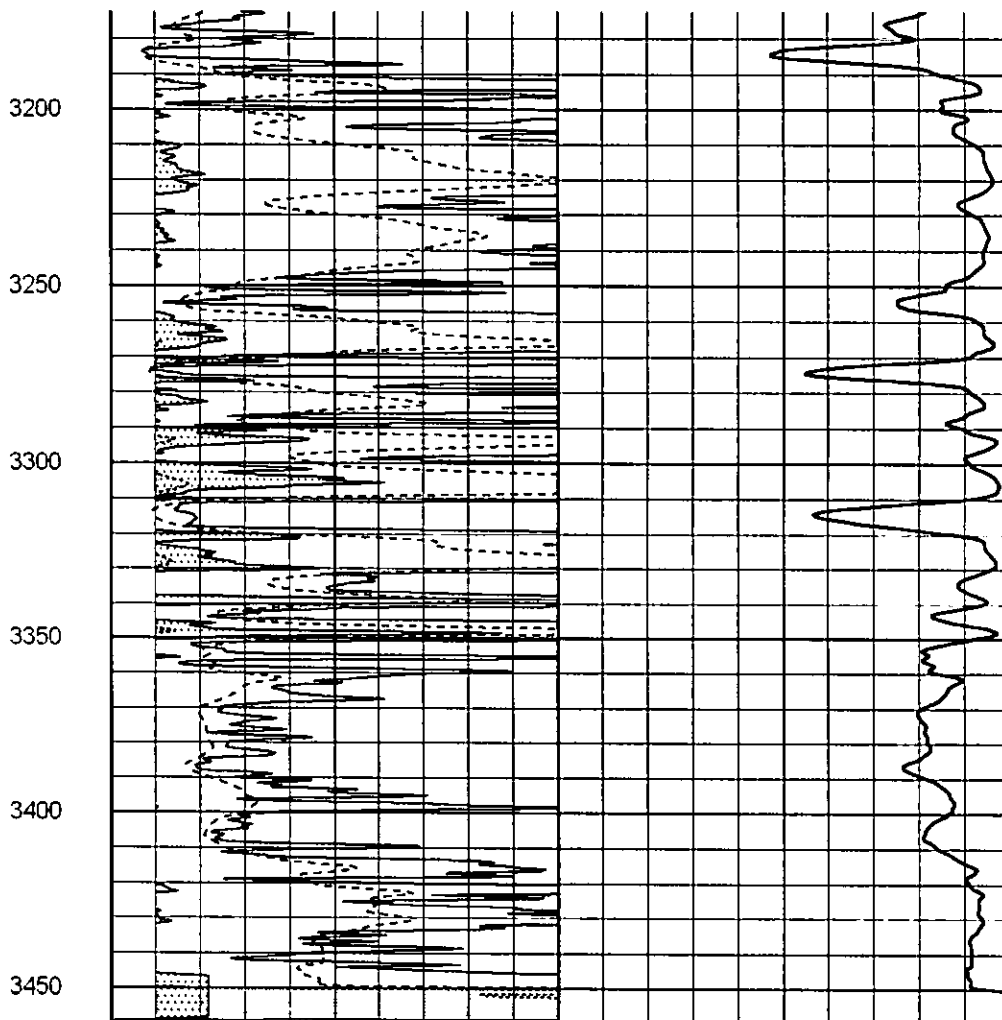
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2150  
2200  
2250  
2300  
2350  
2400  
2450  
2500  
2550  
2600







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
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



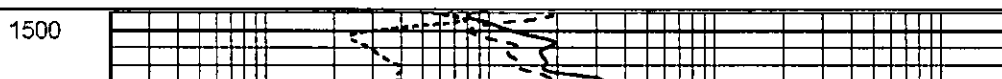
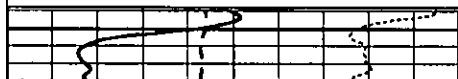
SUPERIOR  
Hays,  
Kansas

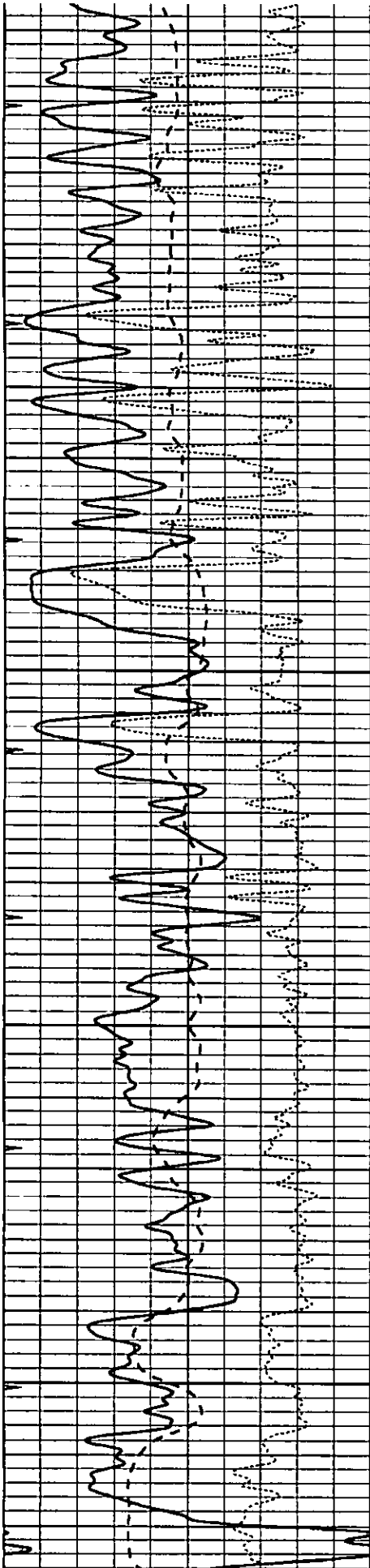
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 Charted by: Depth in Feet scaled 1:240

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-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



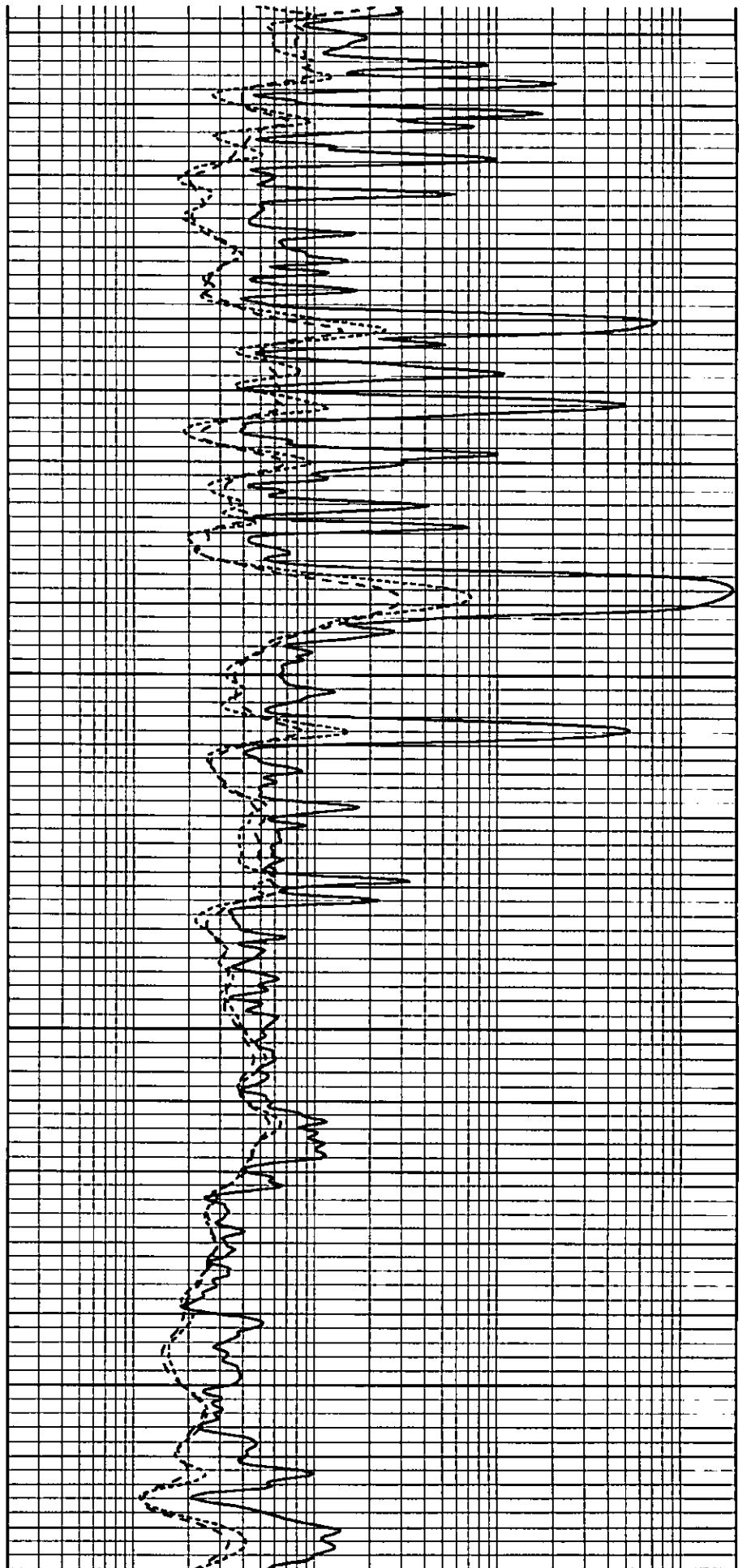


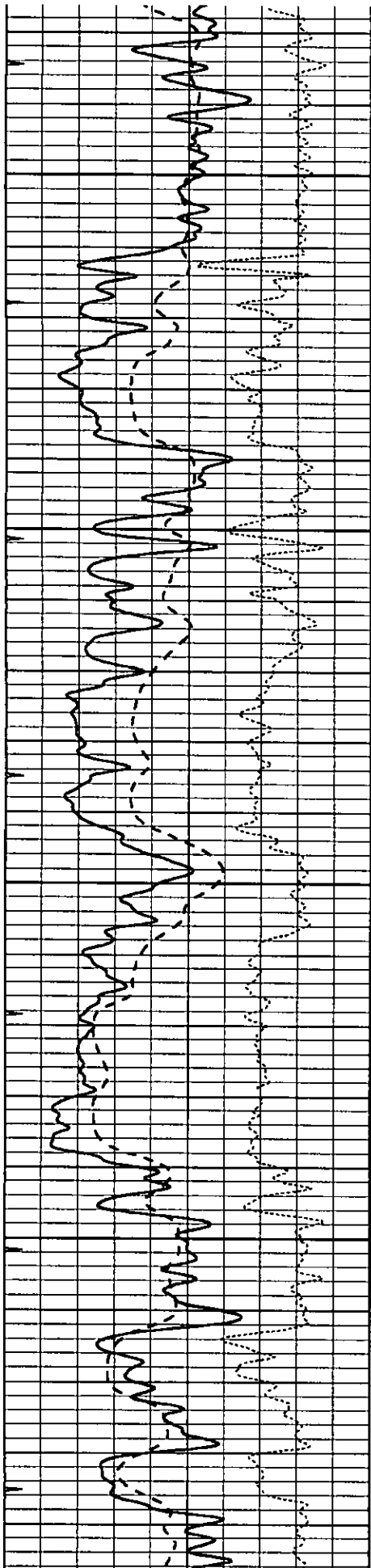
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1650

1700



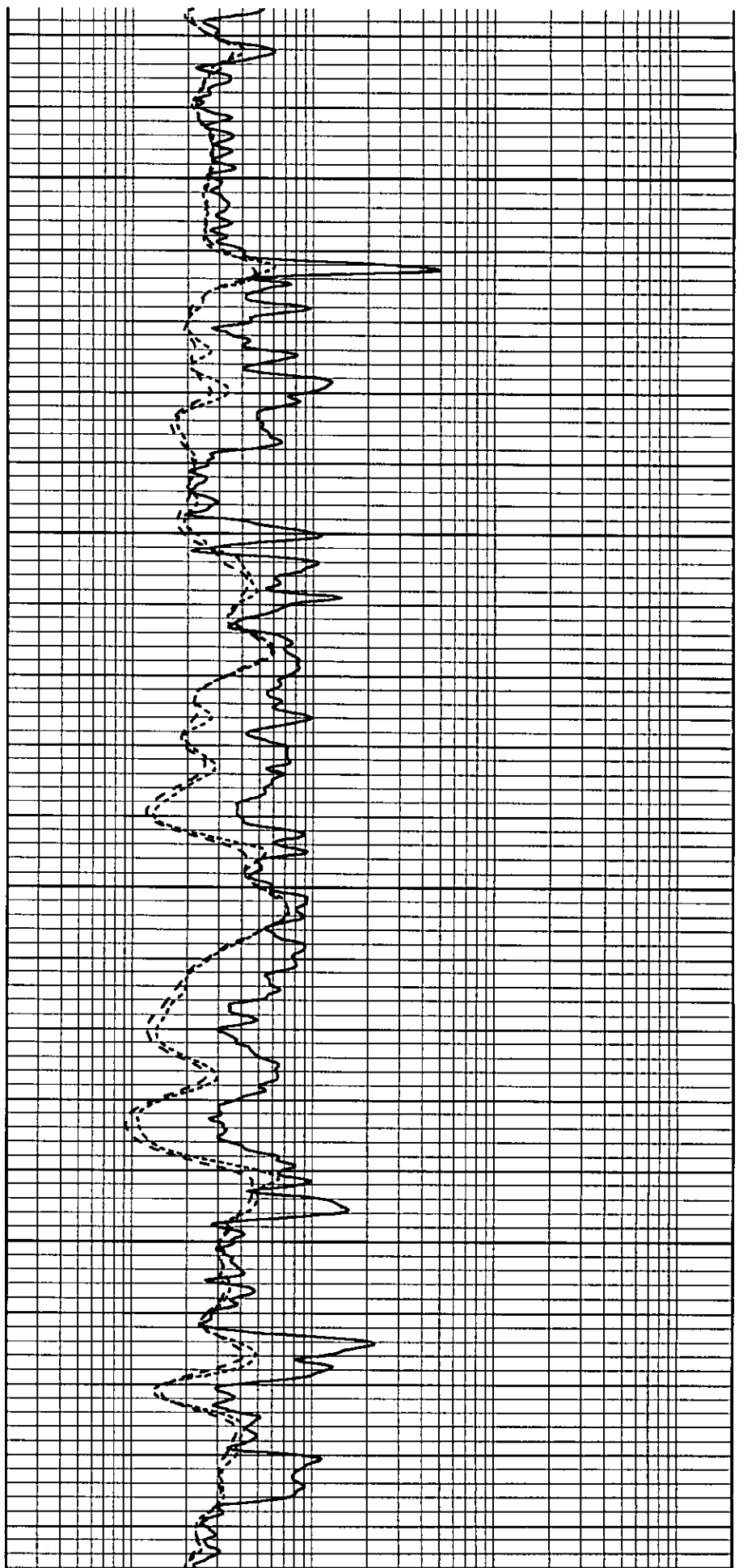


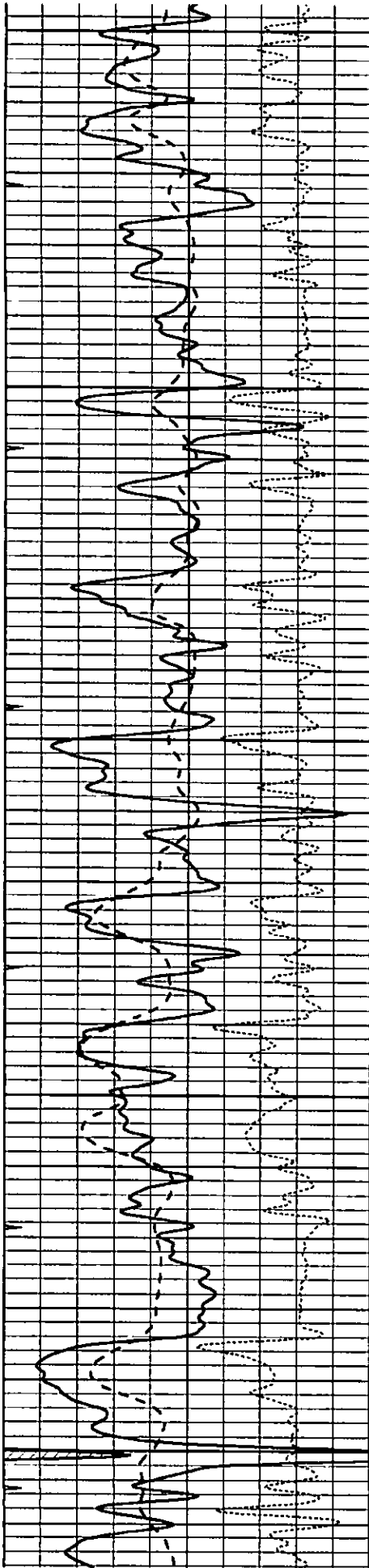
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1850

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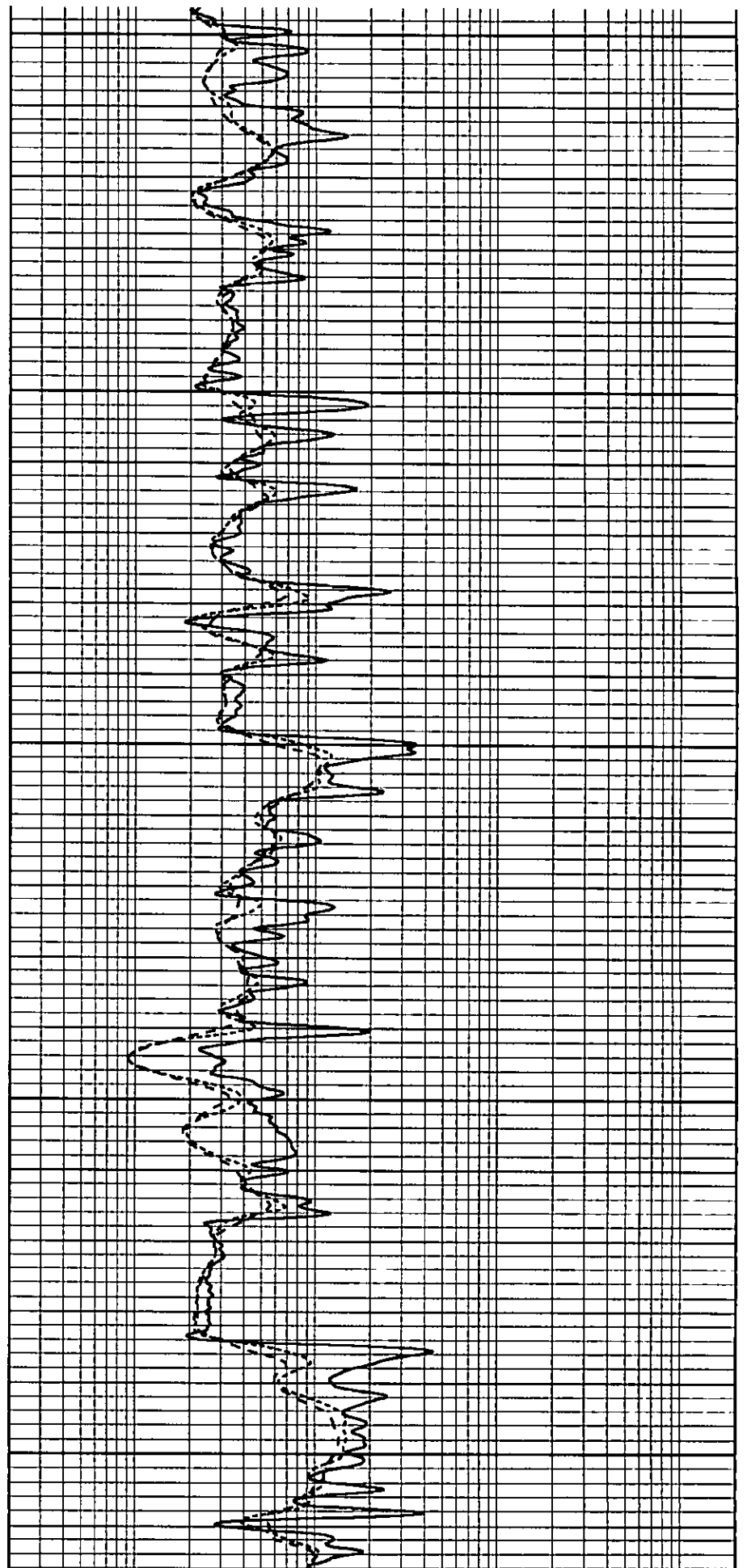
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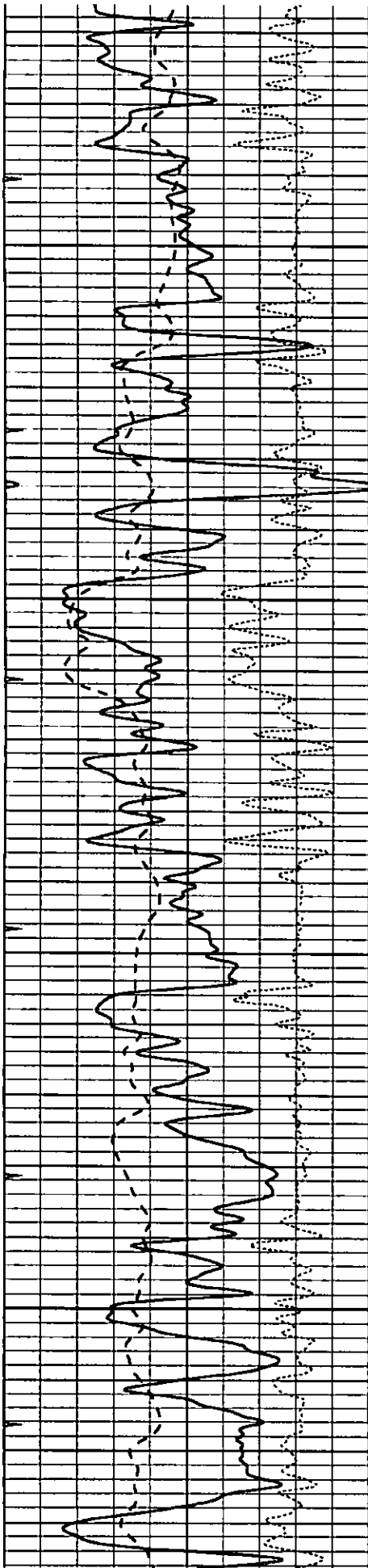
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2050

2100

2150



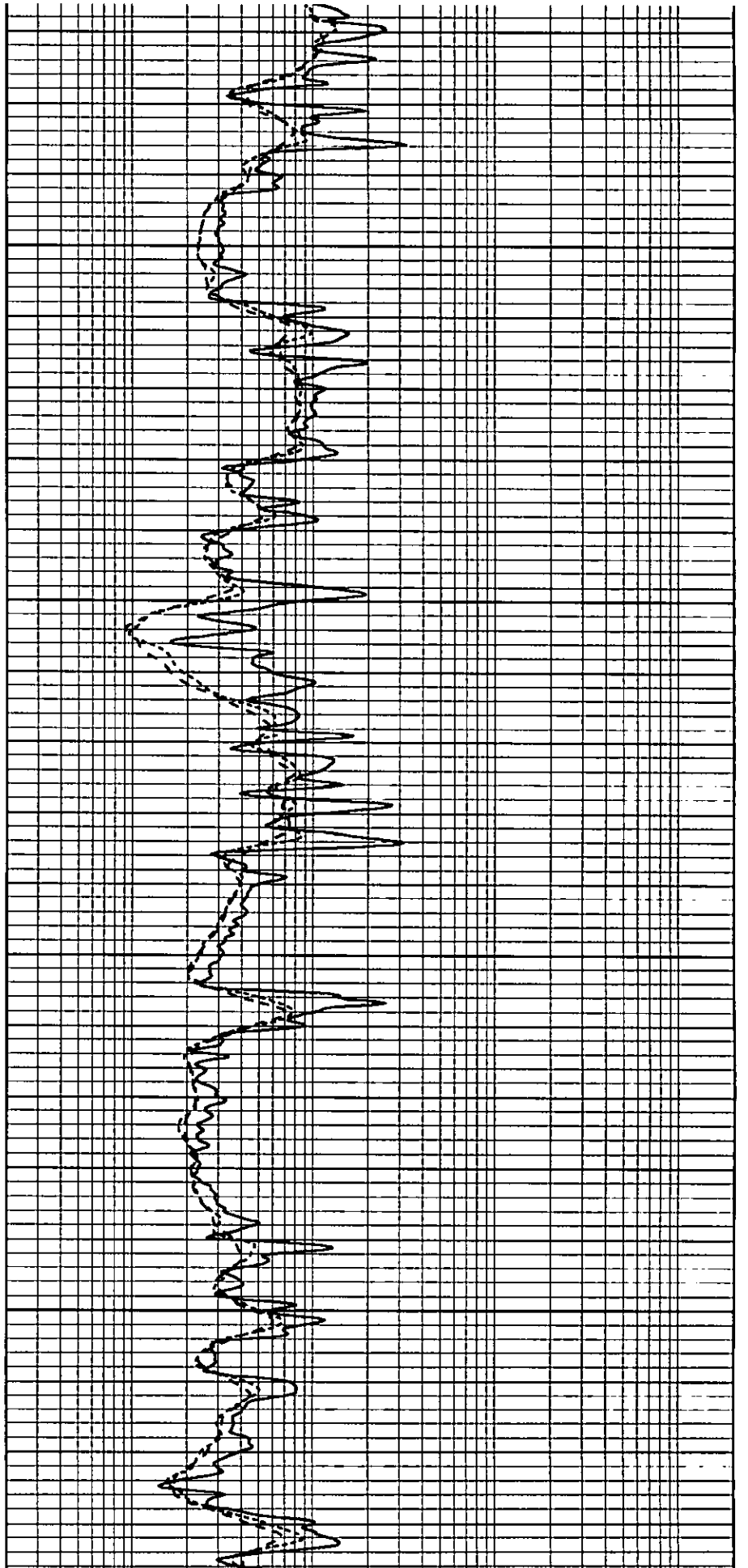


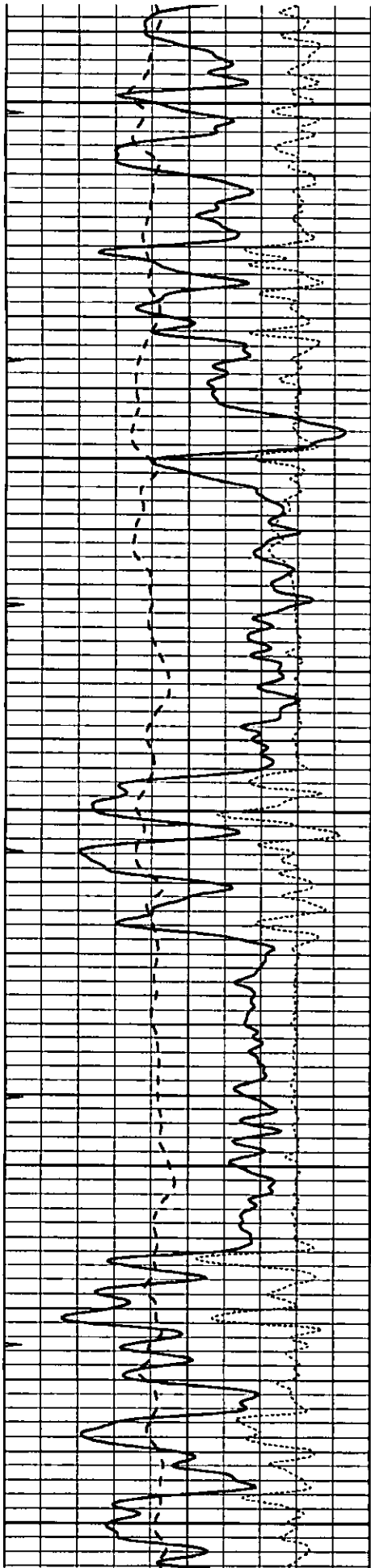
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2300

2350





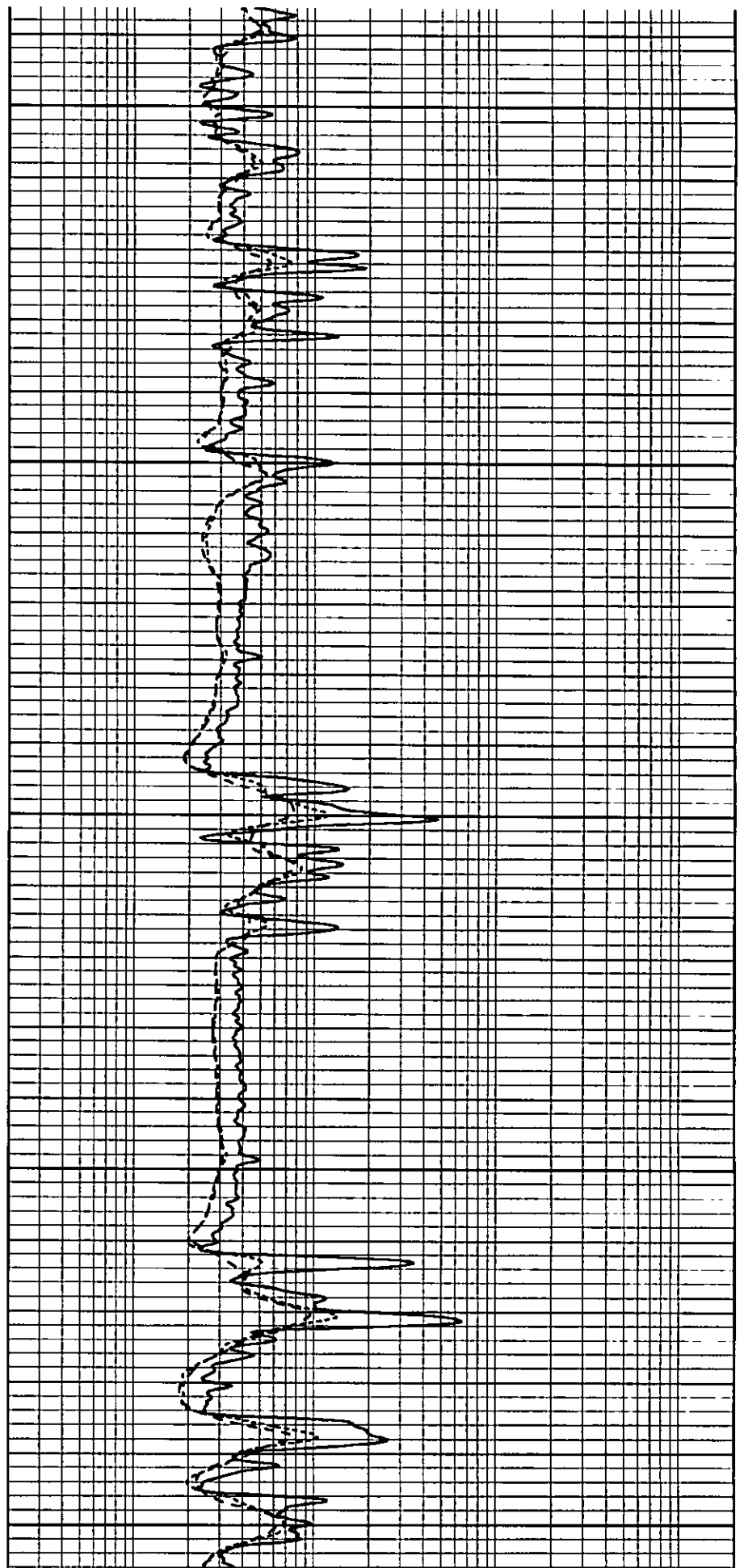
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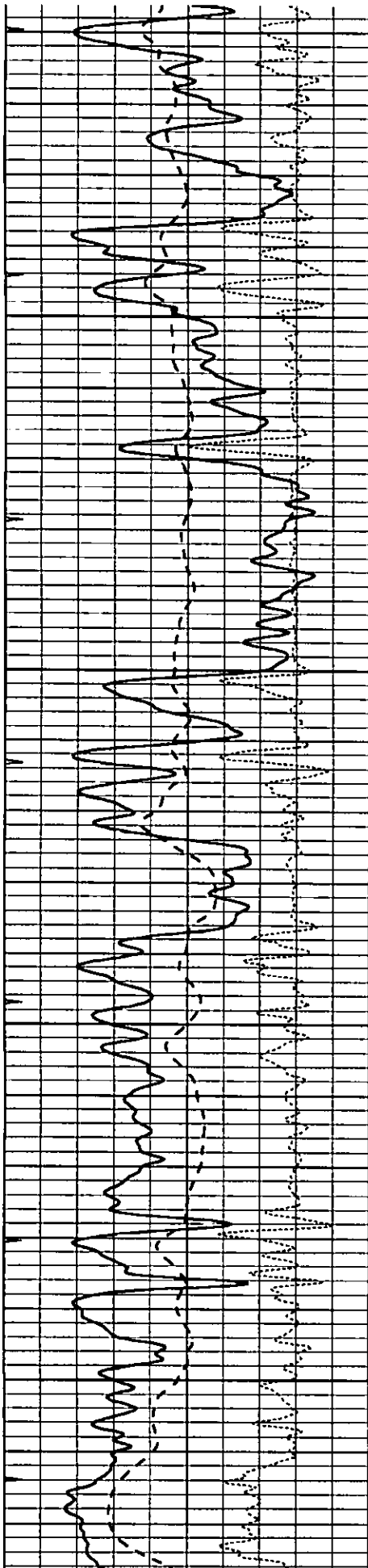
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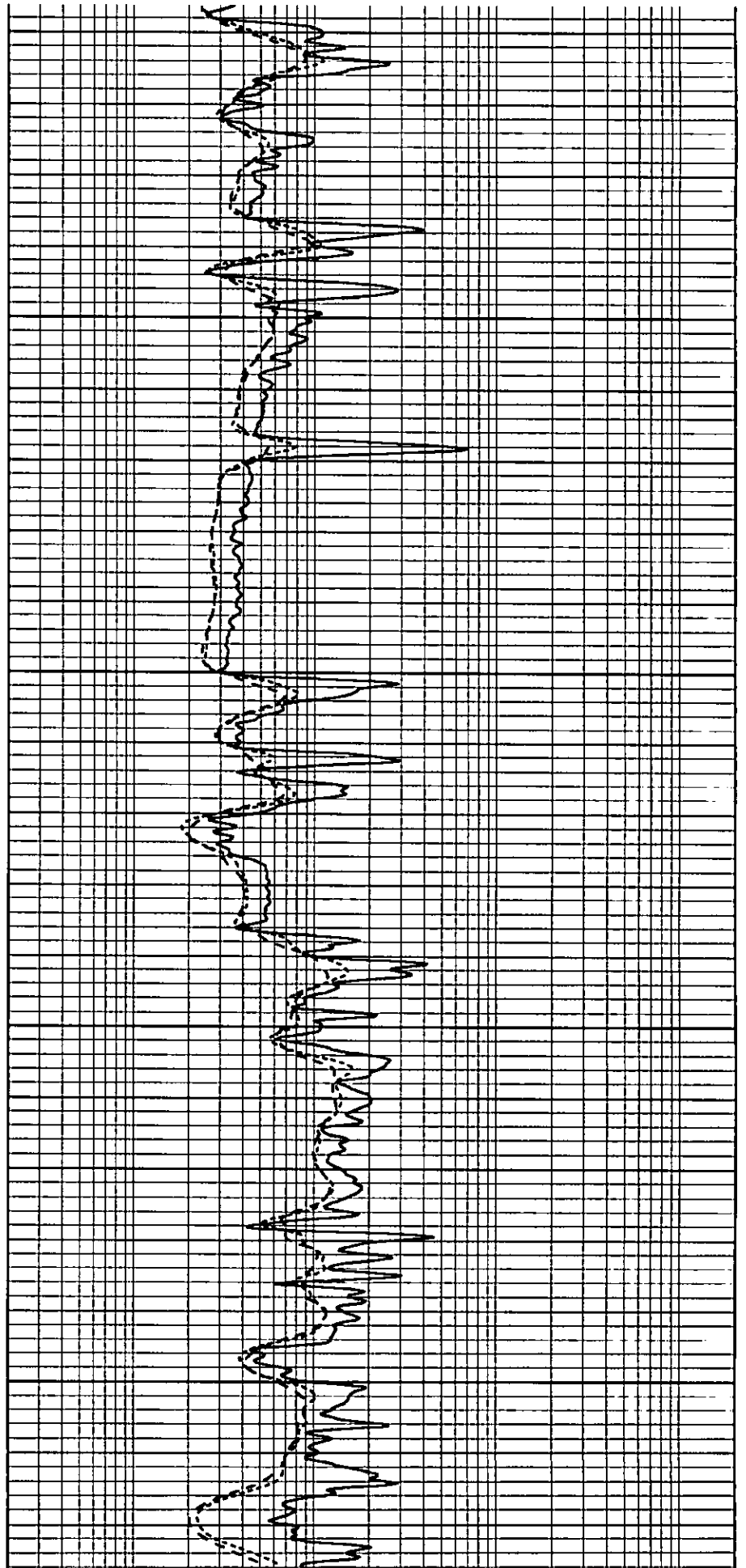


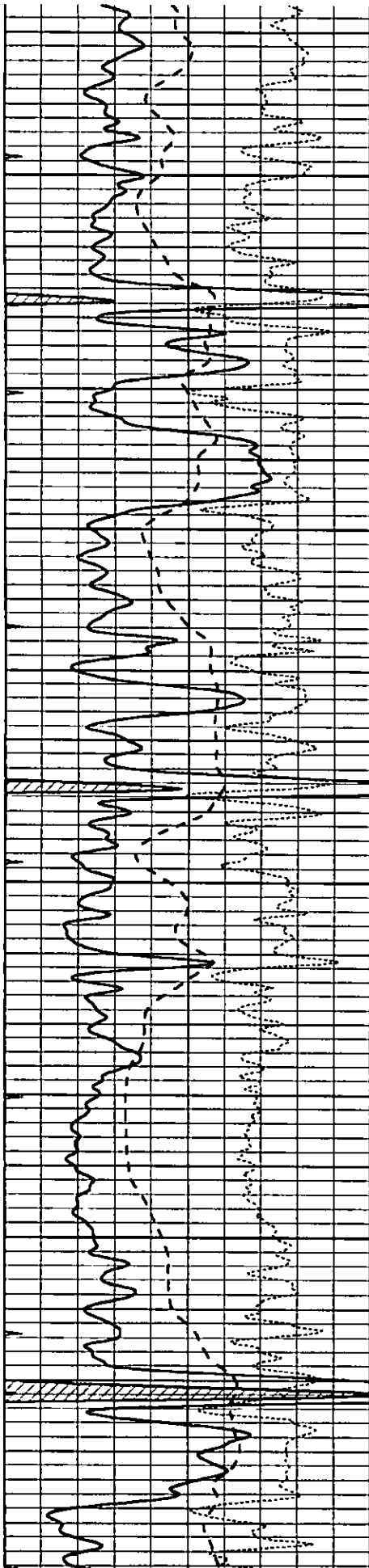
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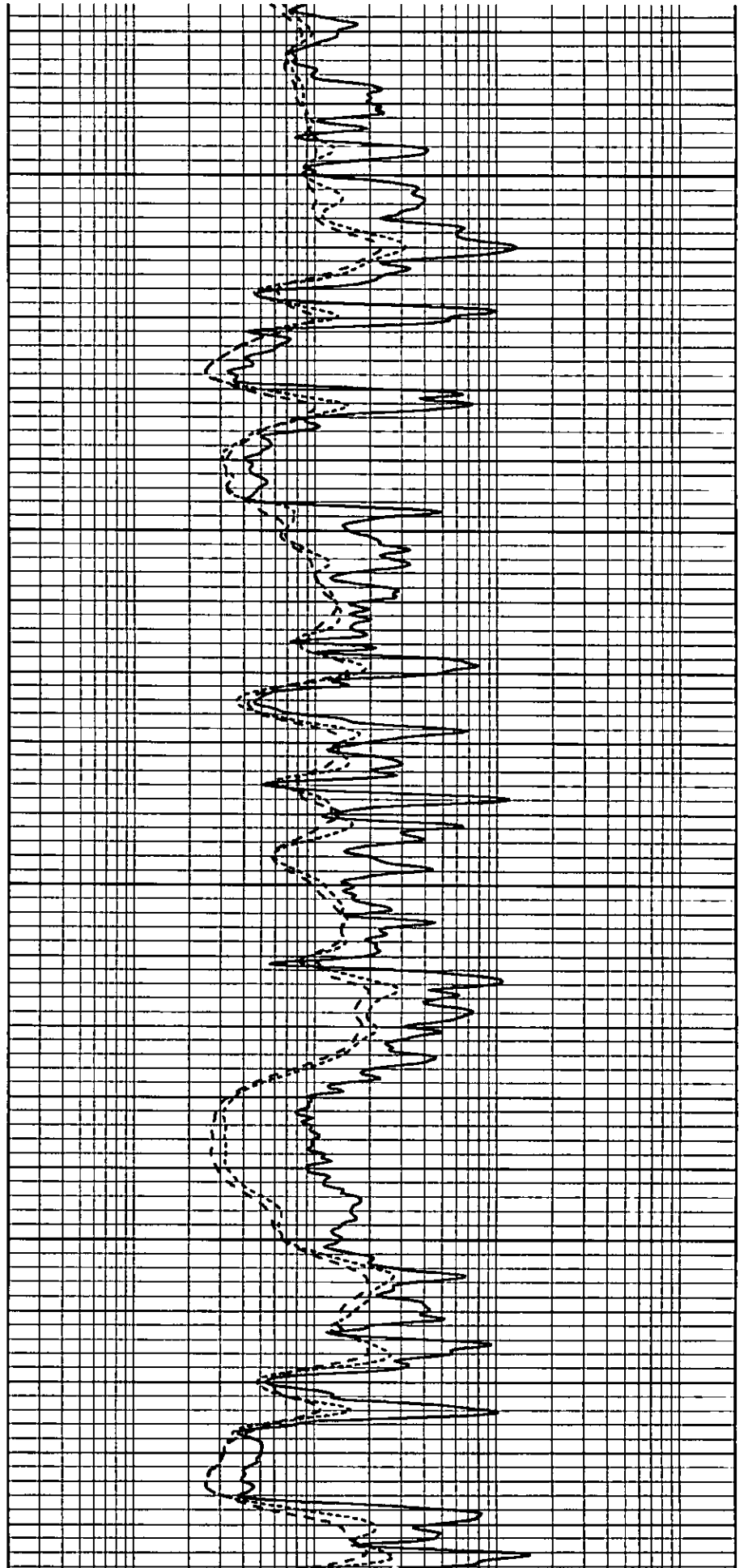


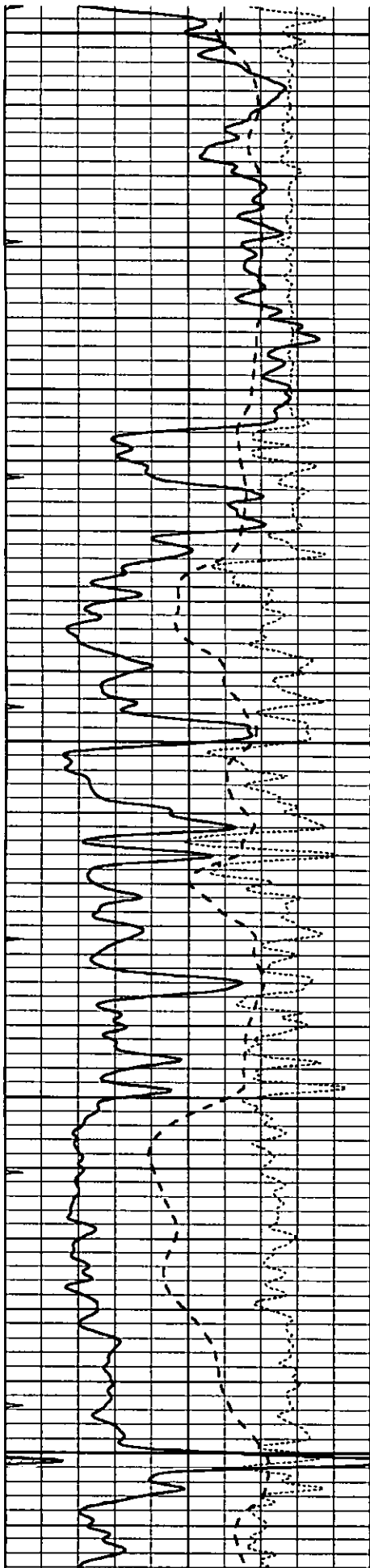
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3000





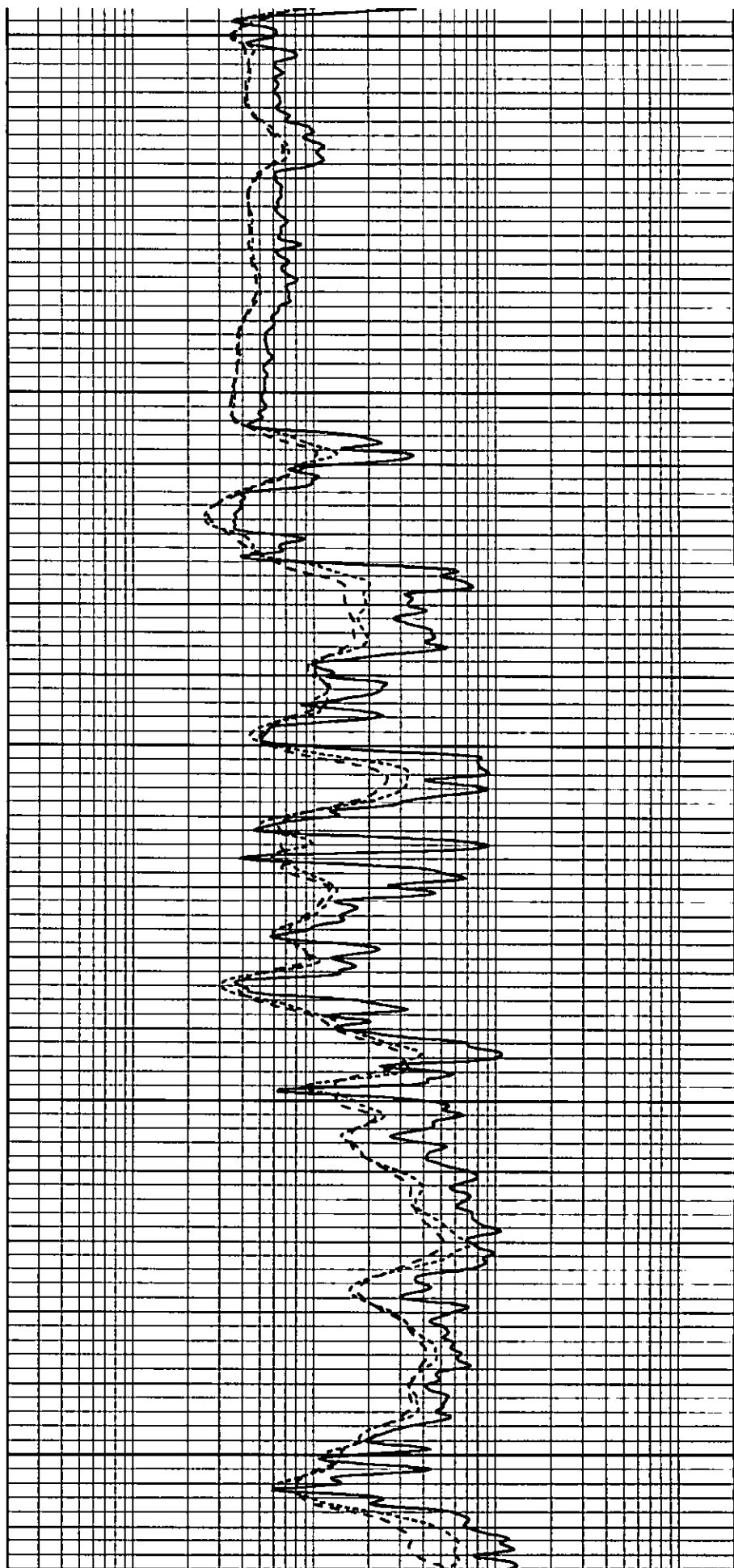
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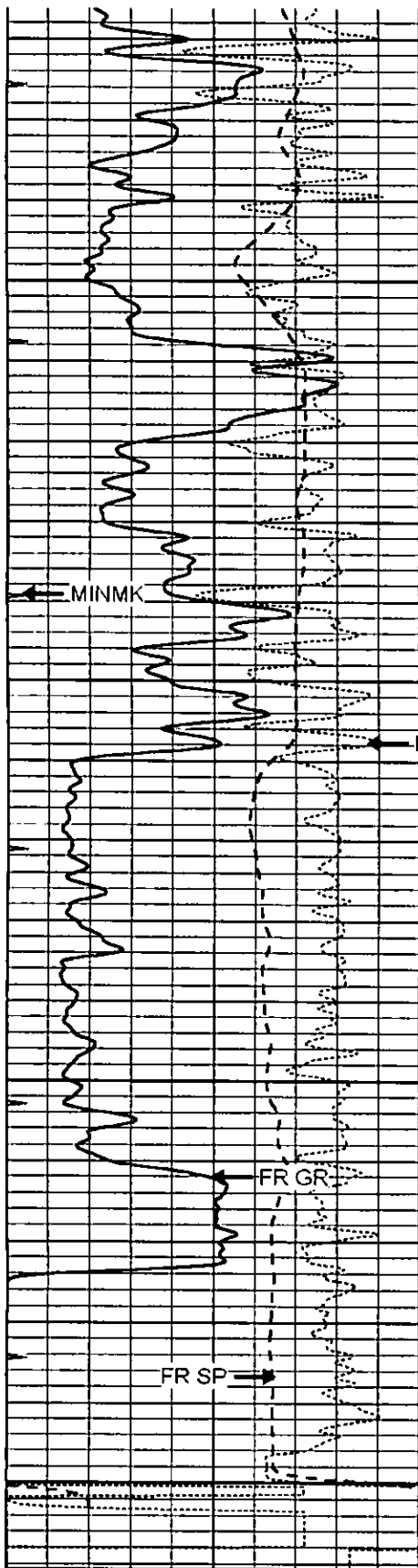
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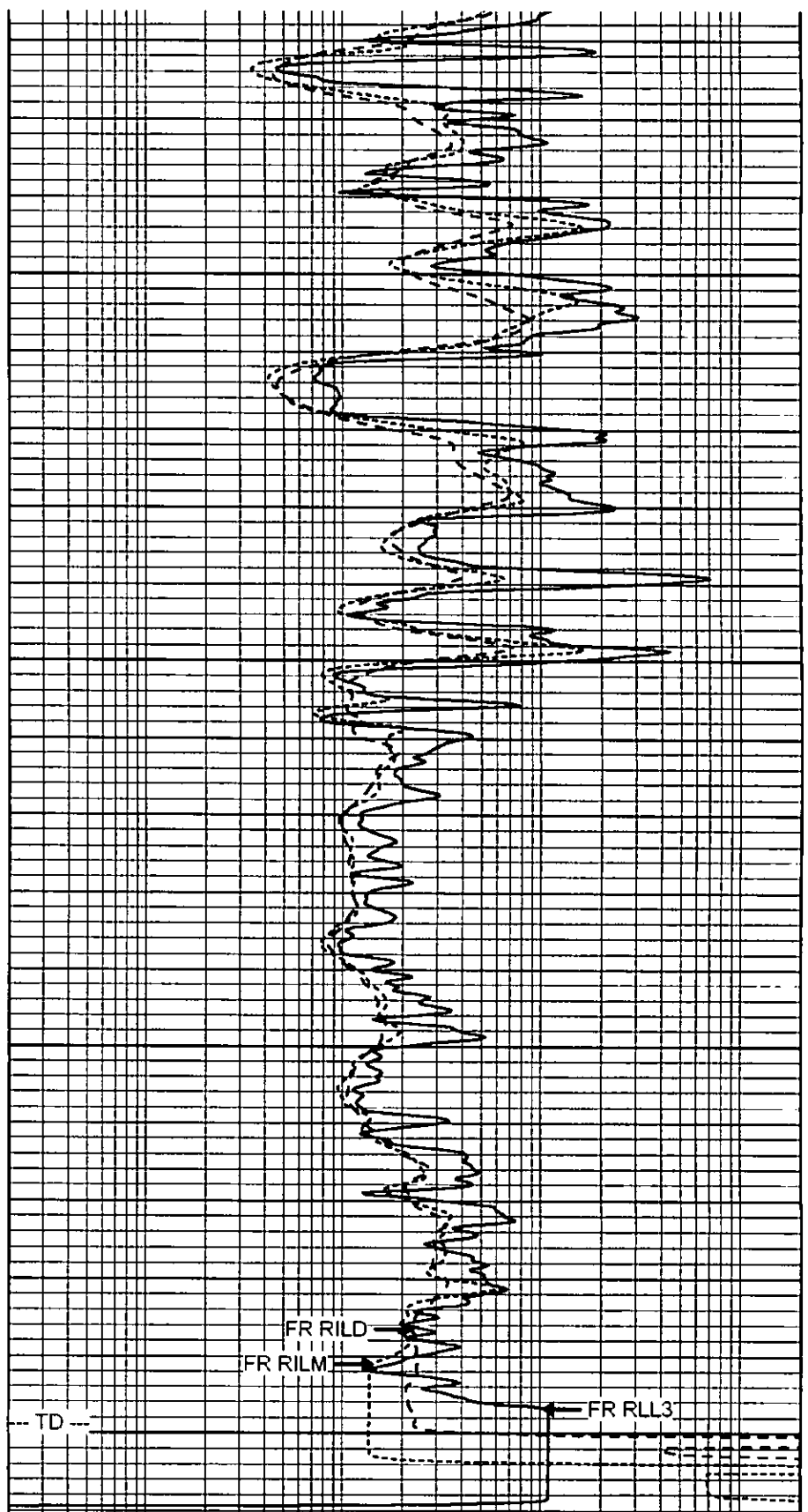
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20



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



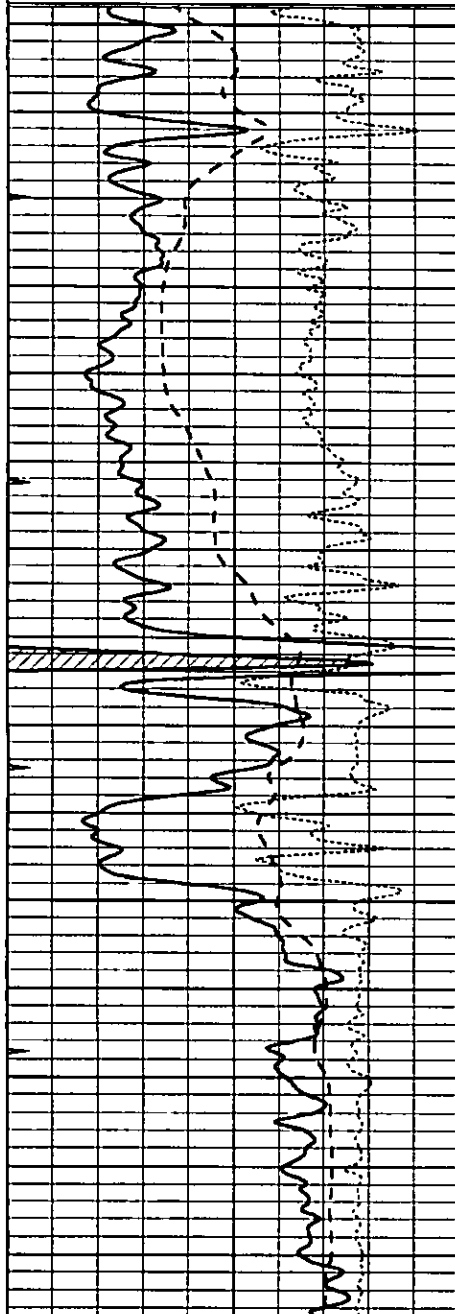
SUPERIOR  
Hays,  
Kansas

# REPEAT SECTION

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 Charted by: Depth in Feet scaled 1:240

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

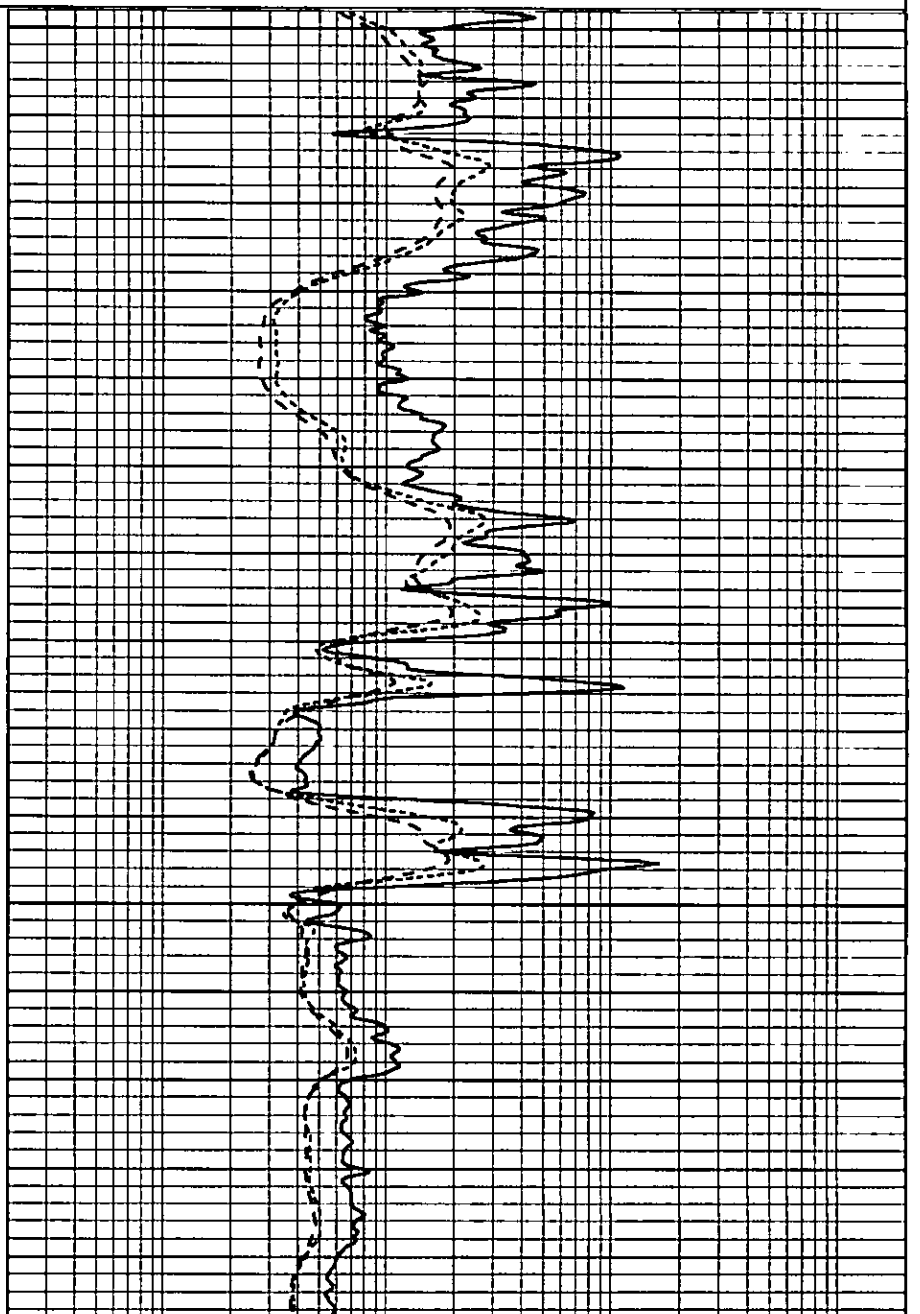
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

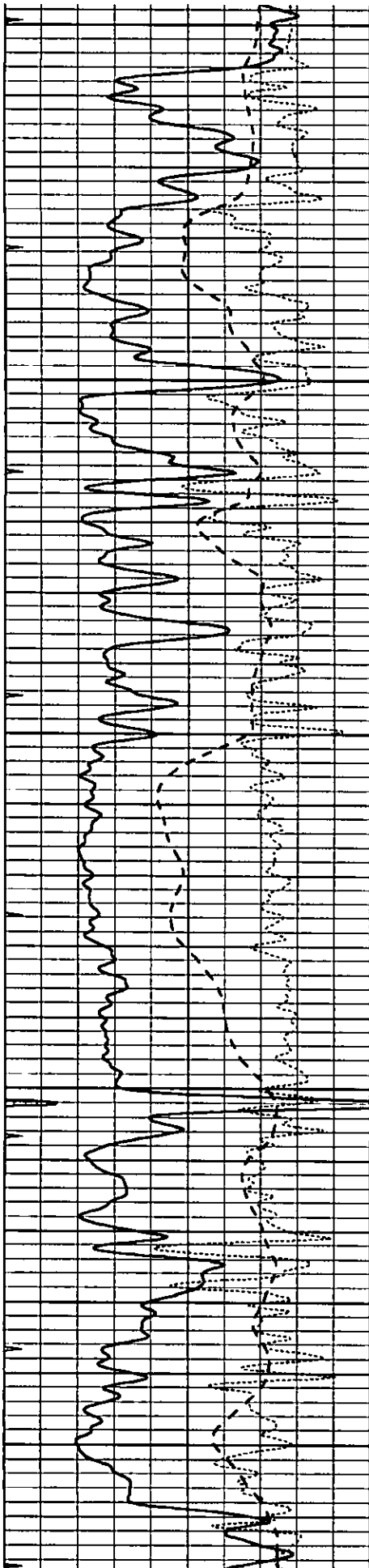


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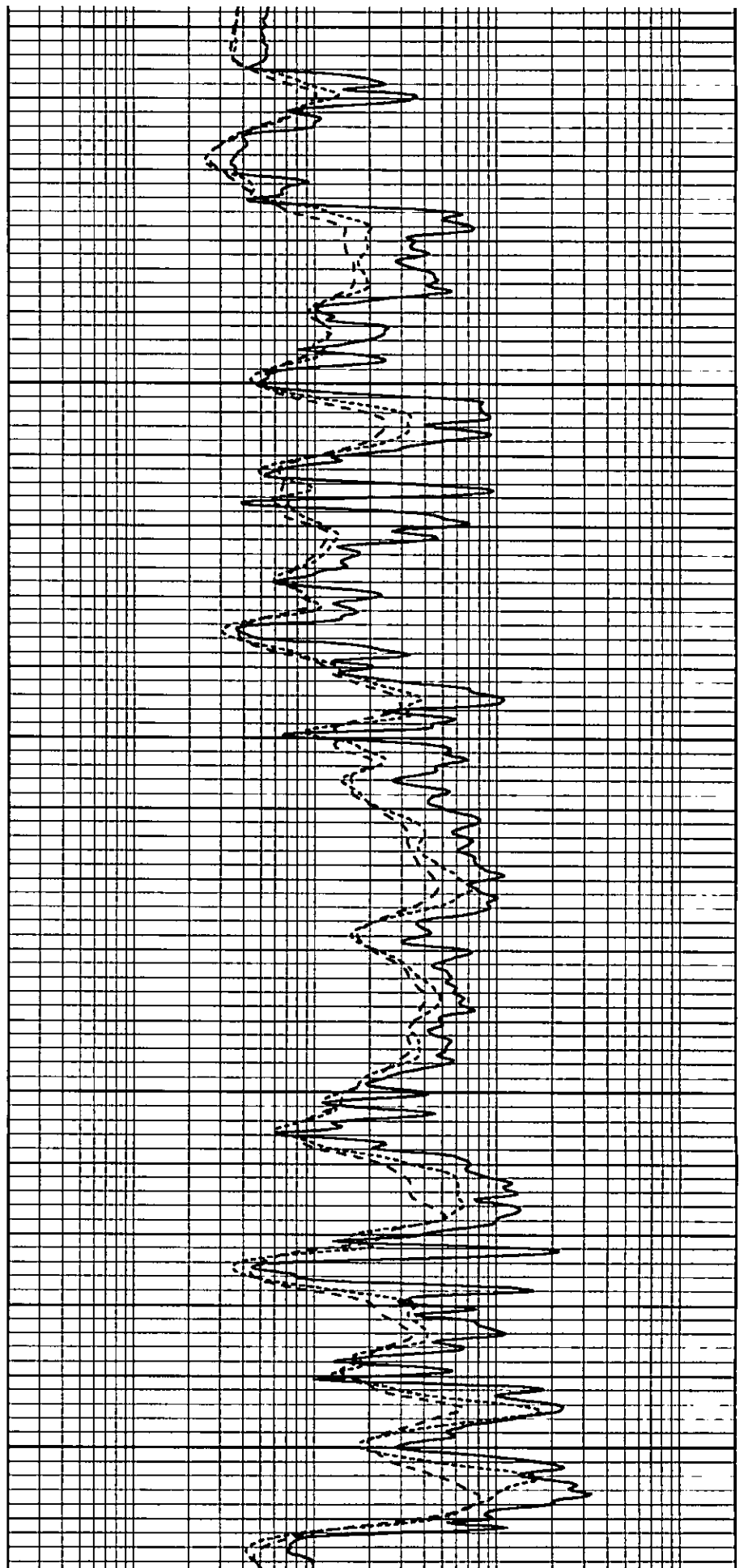
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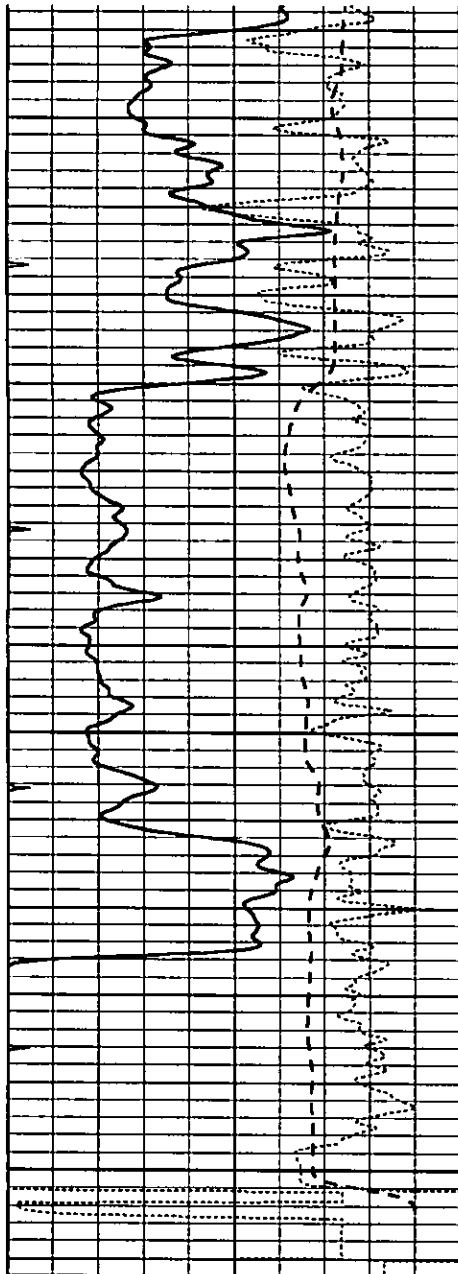
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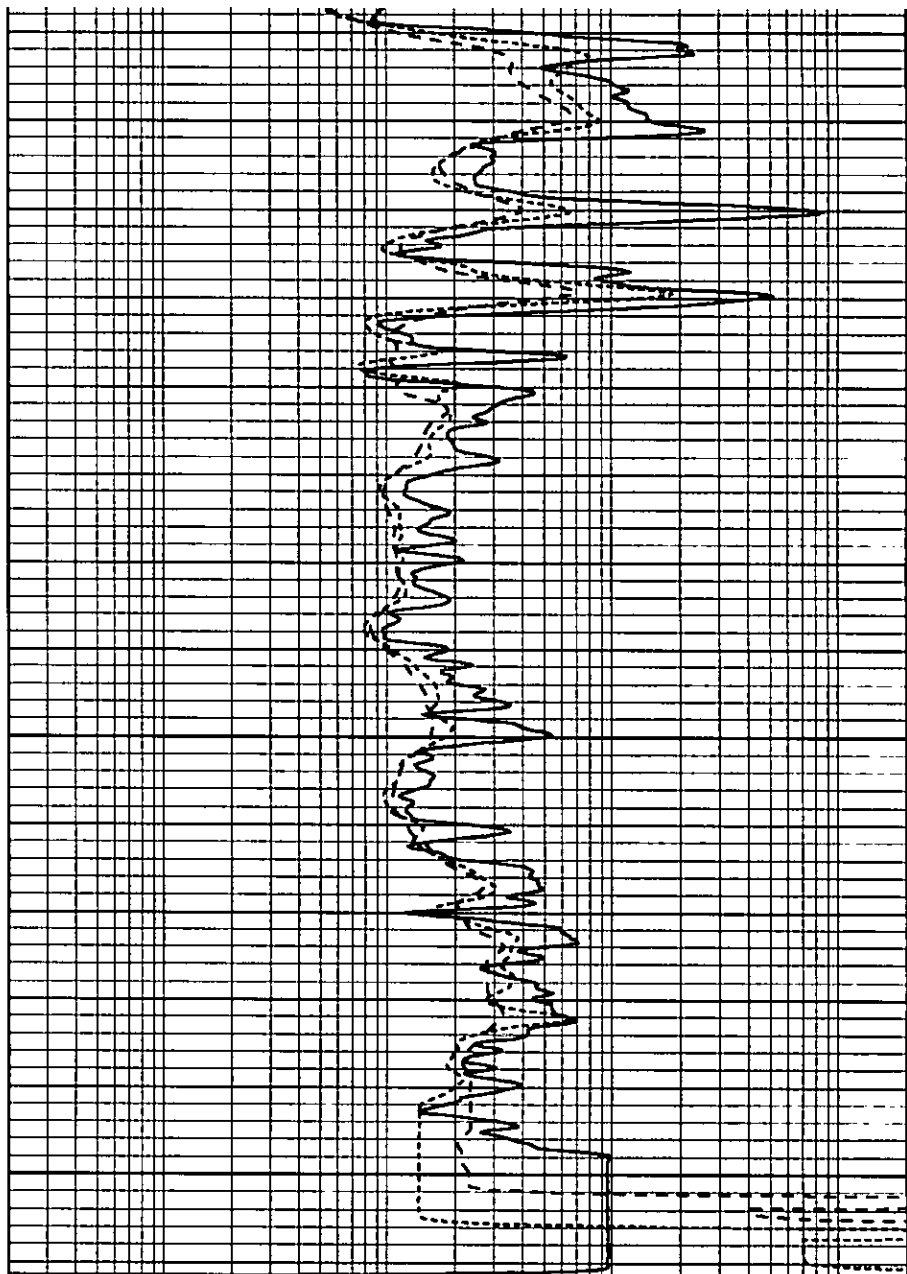
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0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	RxoRt	50
0	MINMK	20

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\_21  
 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





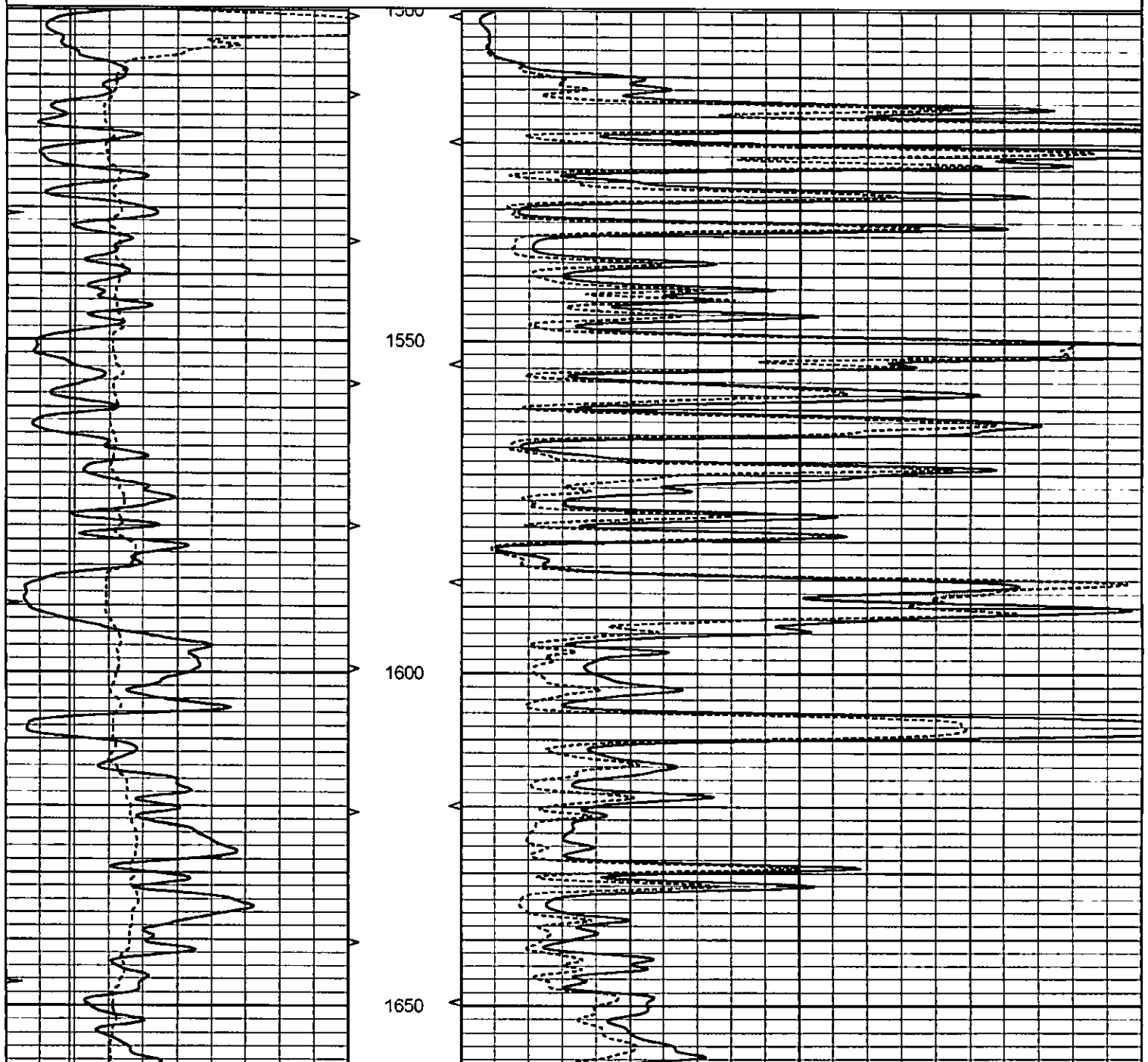
SUPERIOR  
Hays,  
Kansas

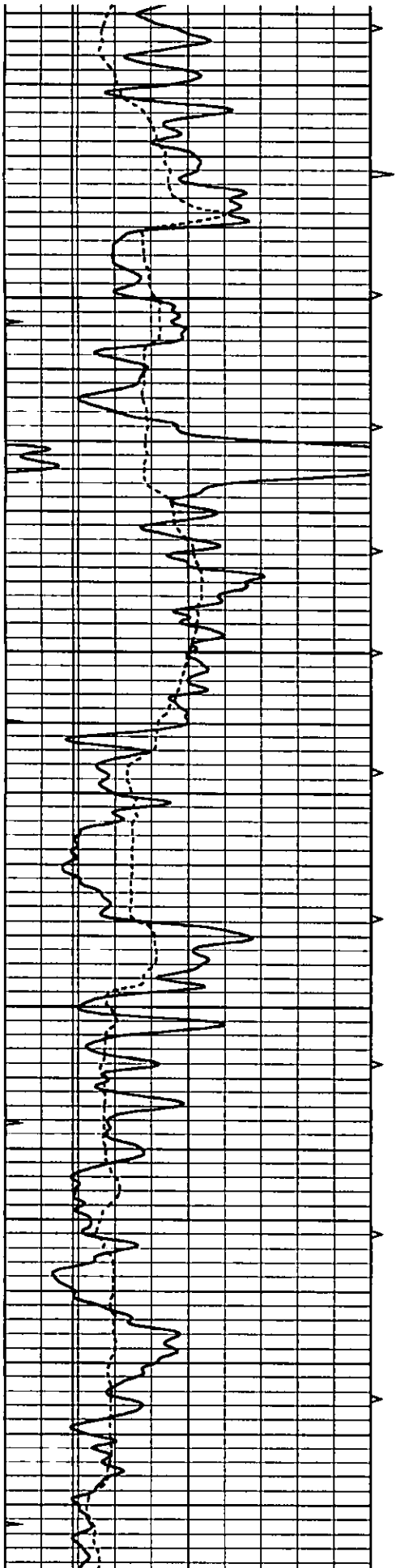
# MAIN SECTION

Database File: 001214ddn.db  
Dataset Pathname: pass5.1  
Presentation Format: micro  
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
6	MELCAL (in)	16
0	MINMK	20

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



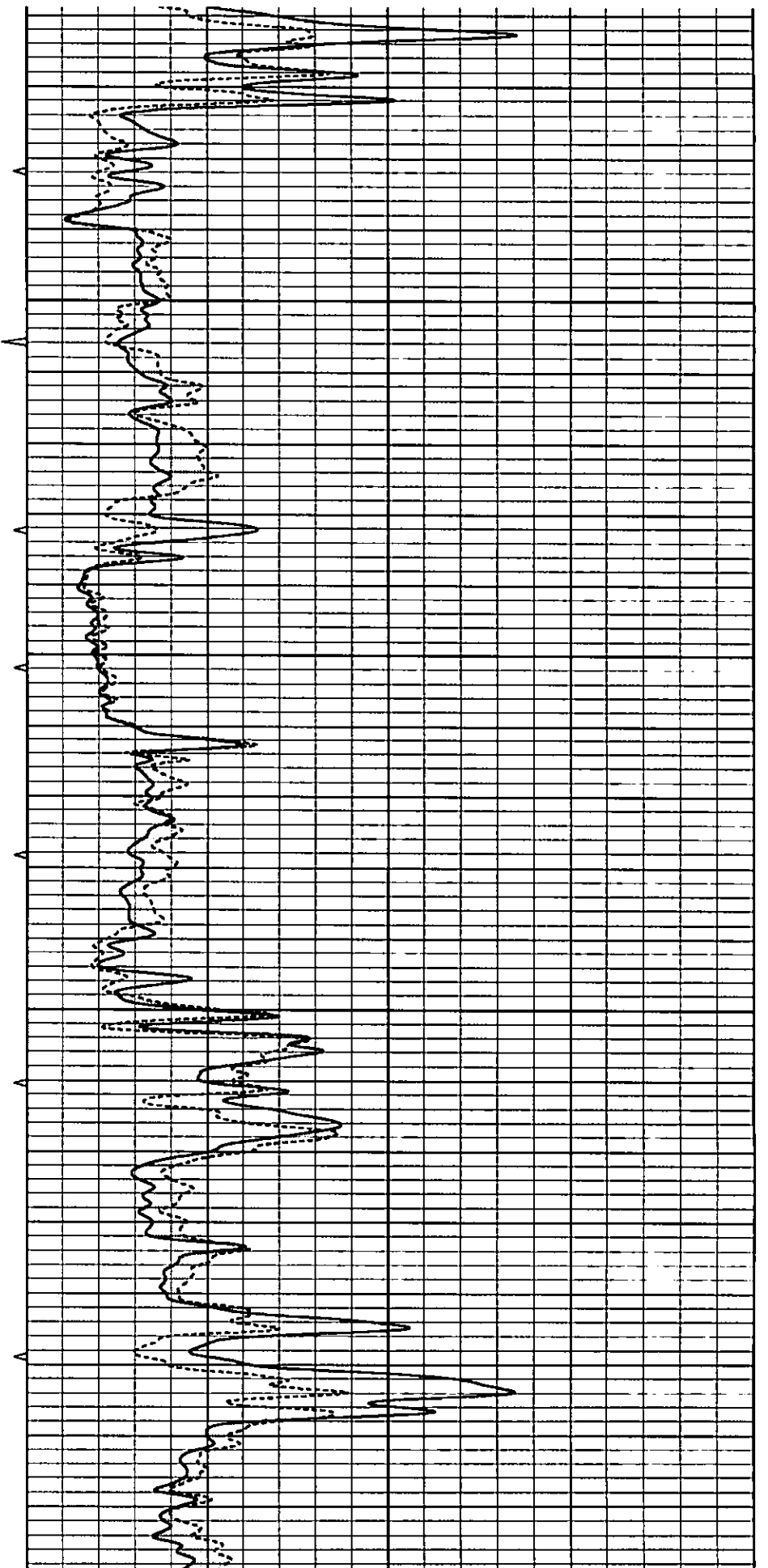


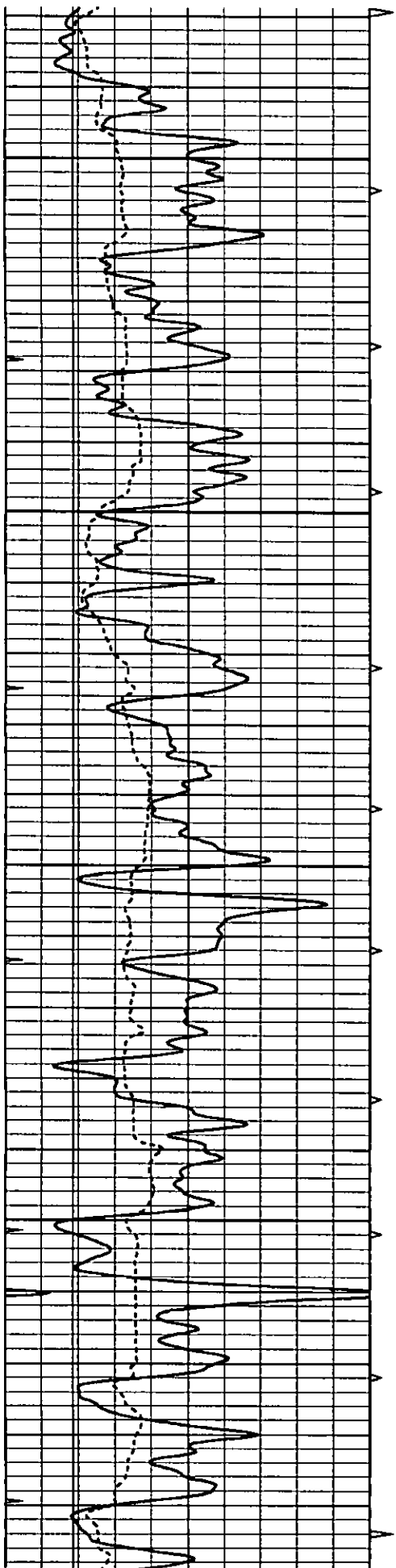
1700

1750

1800

1850



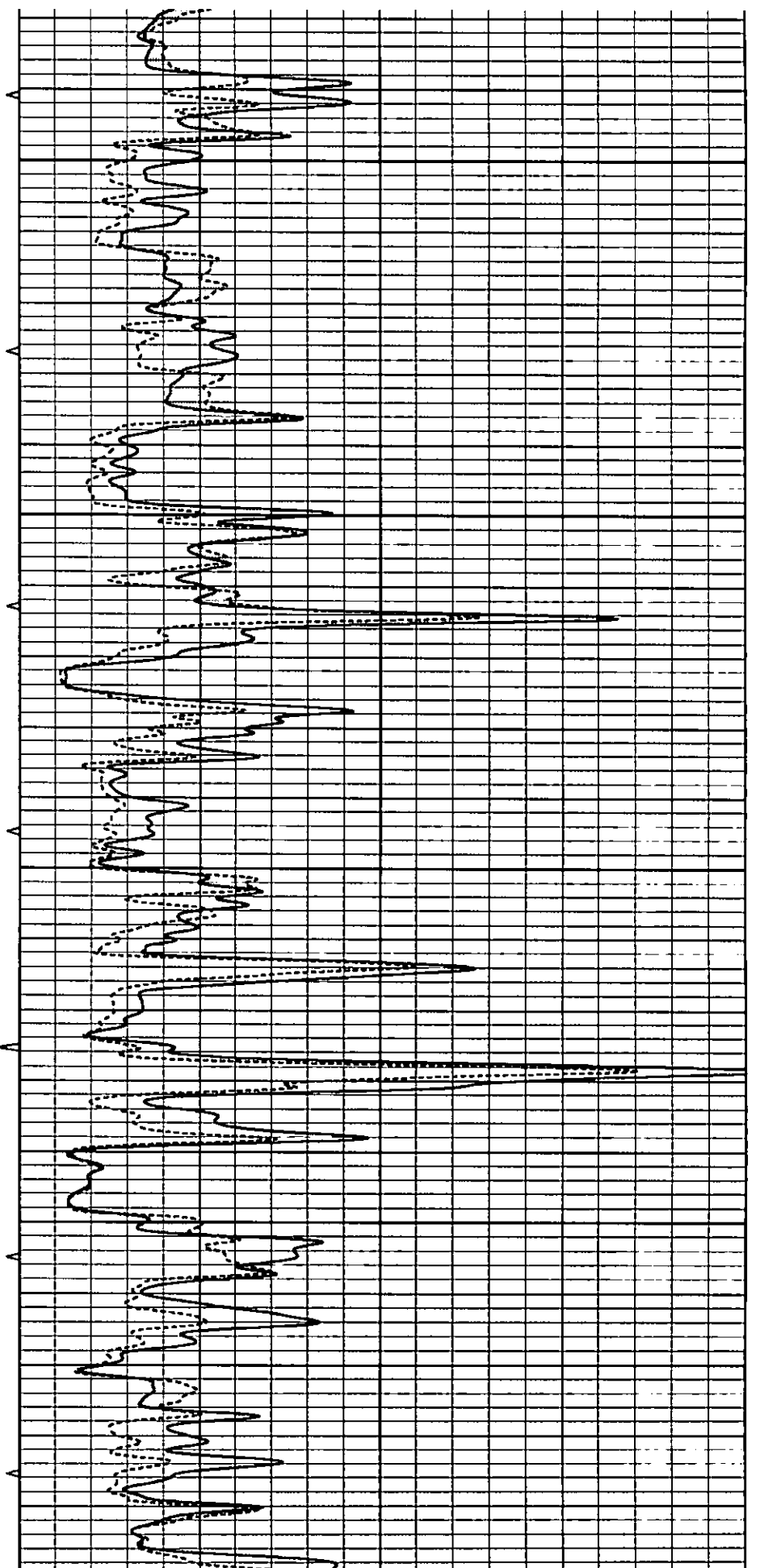


1900

1950

2000

2050

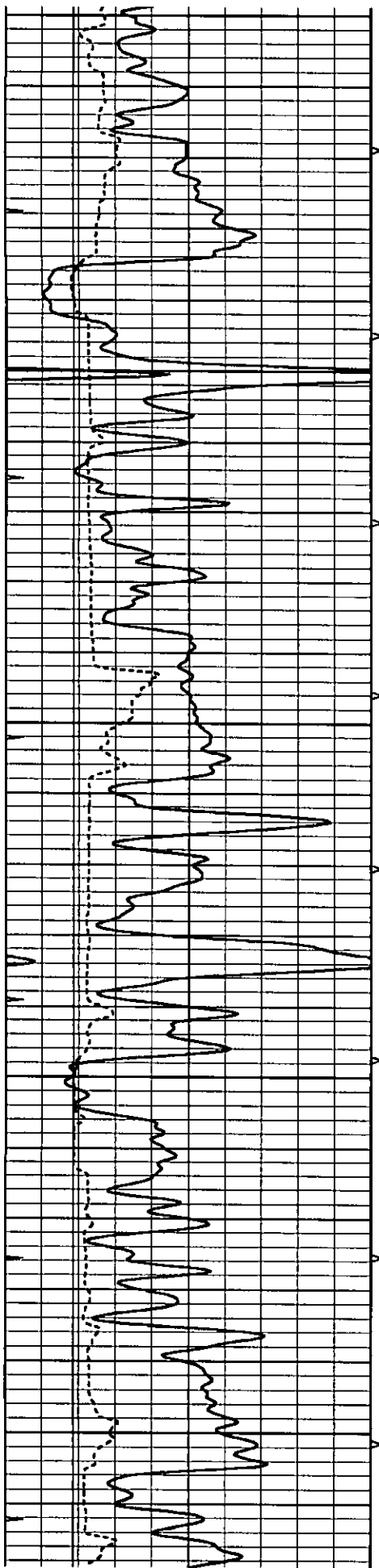


1900

1950

2000

2050



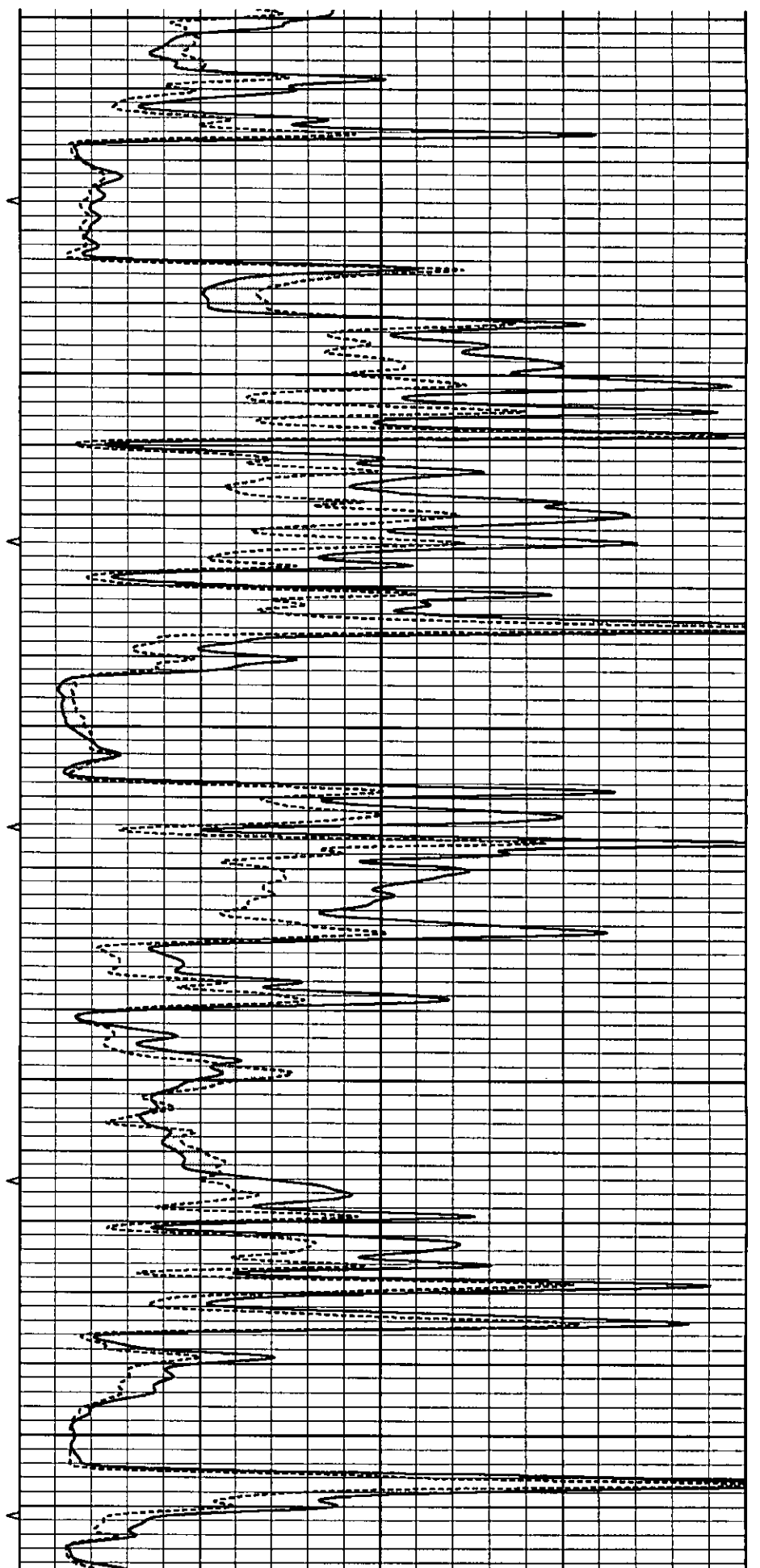
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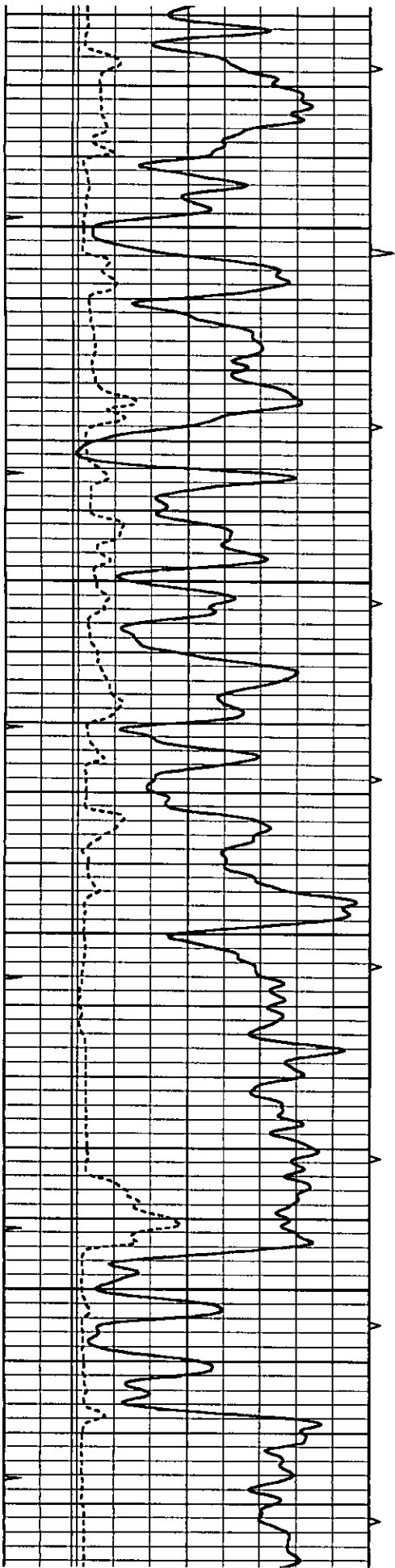
2150

2200

2250

2300



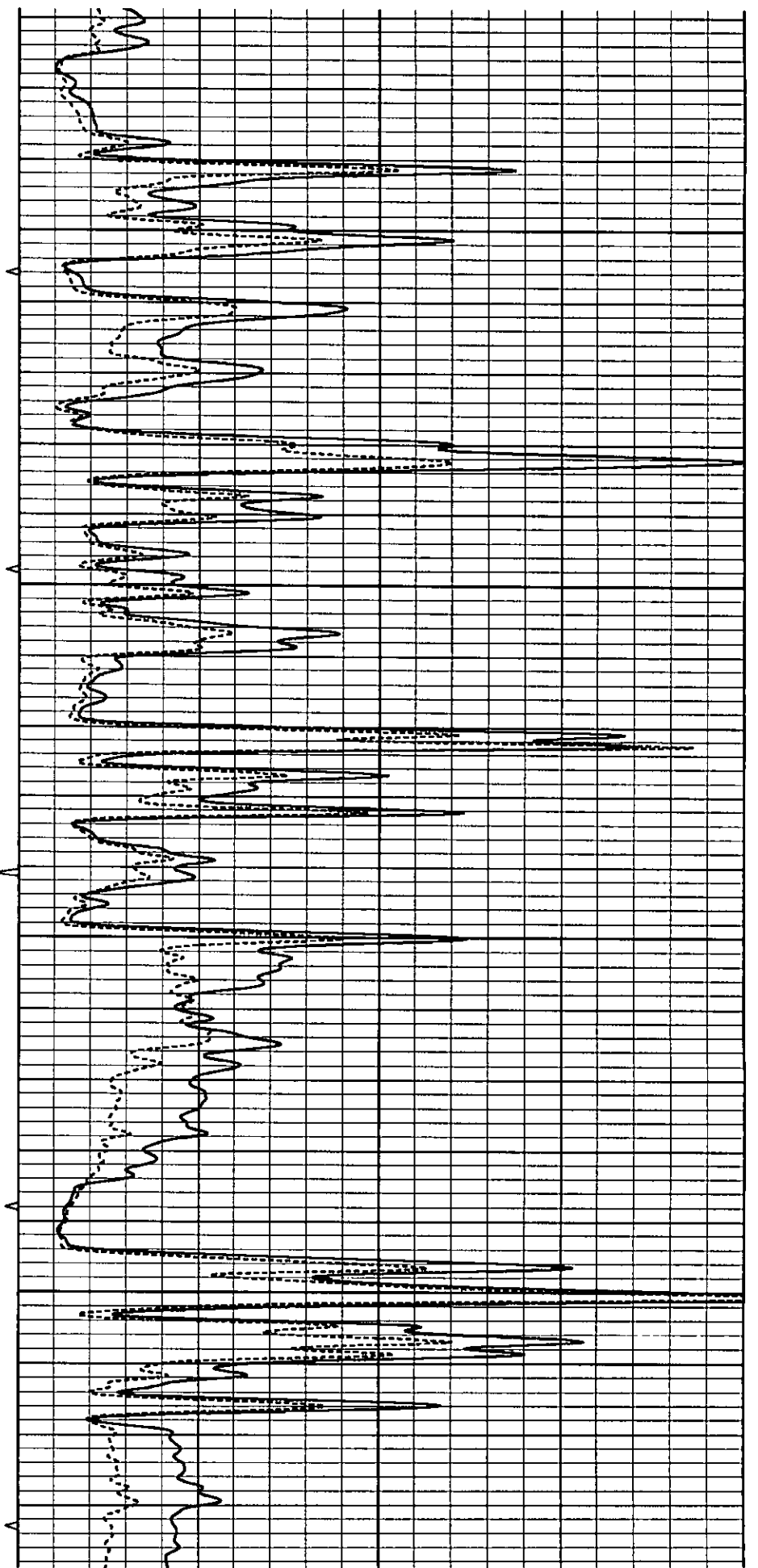


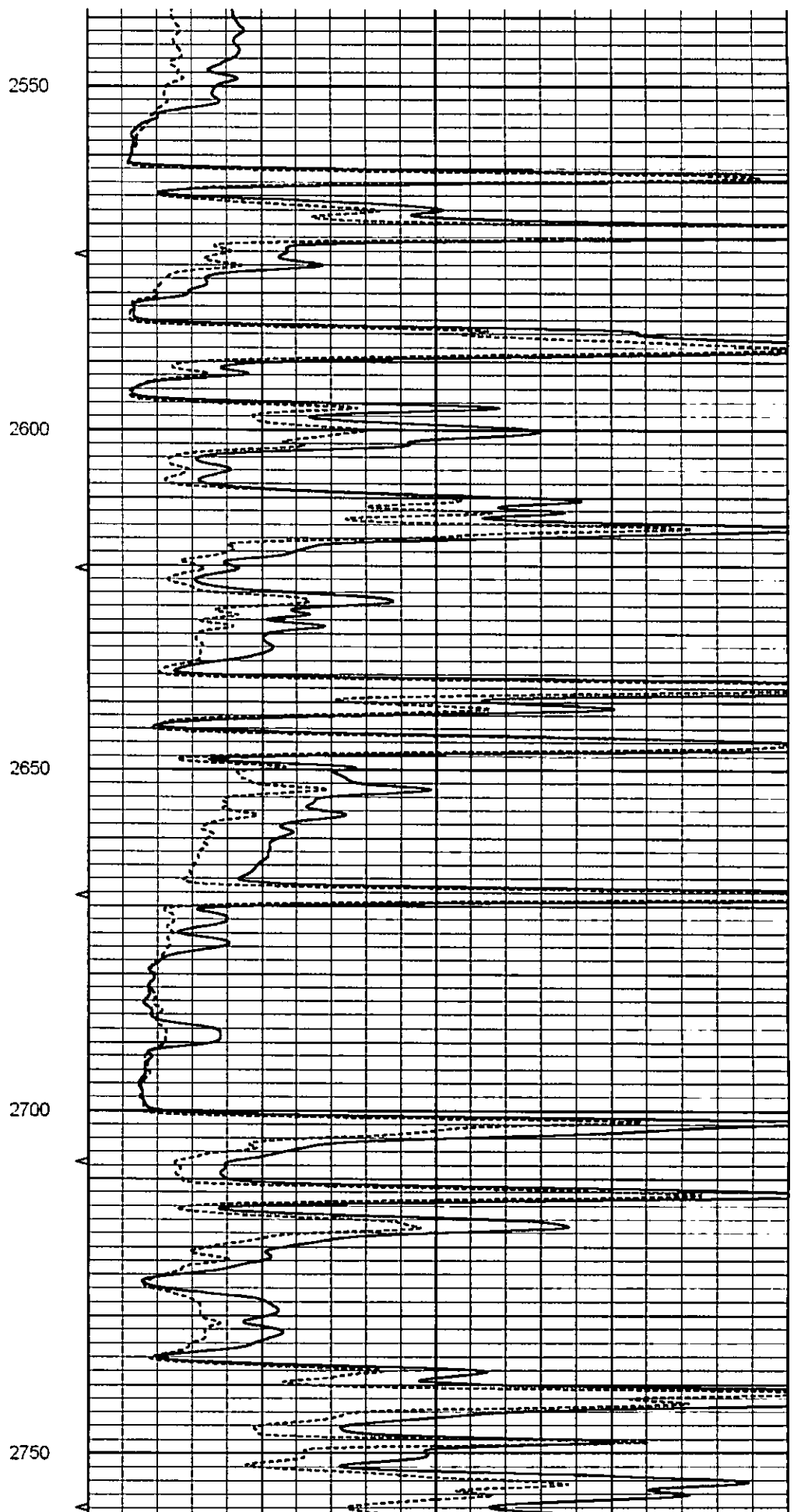
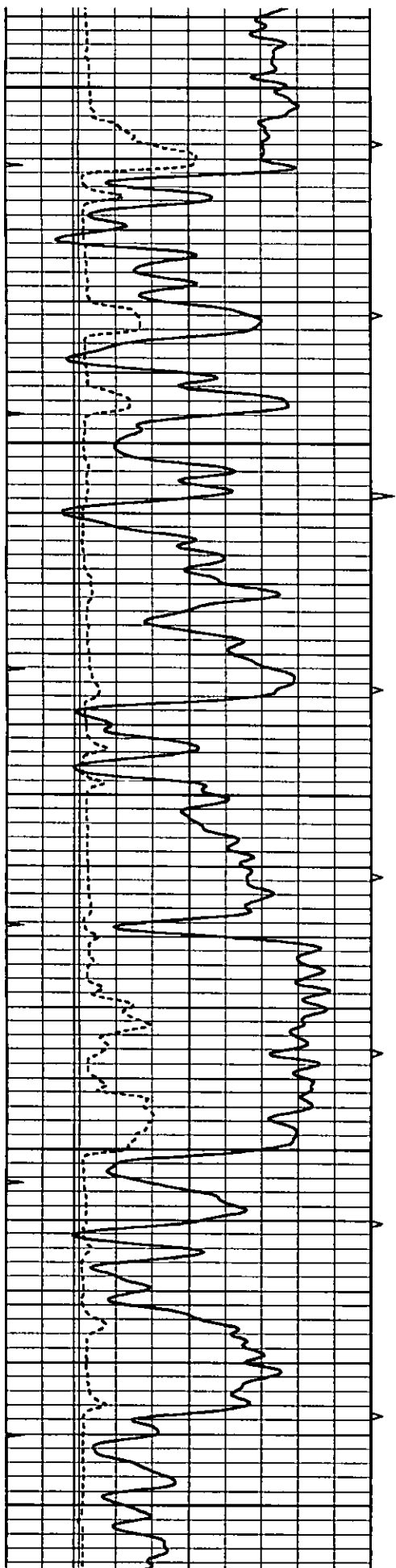
2350

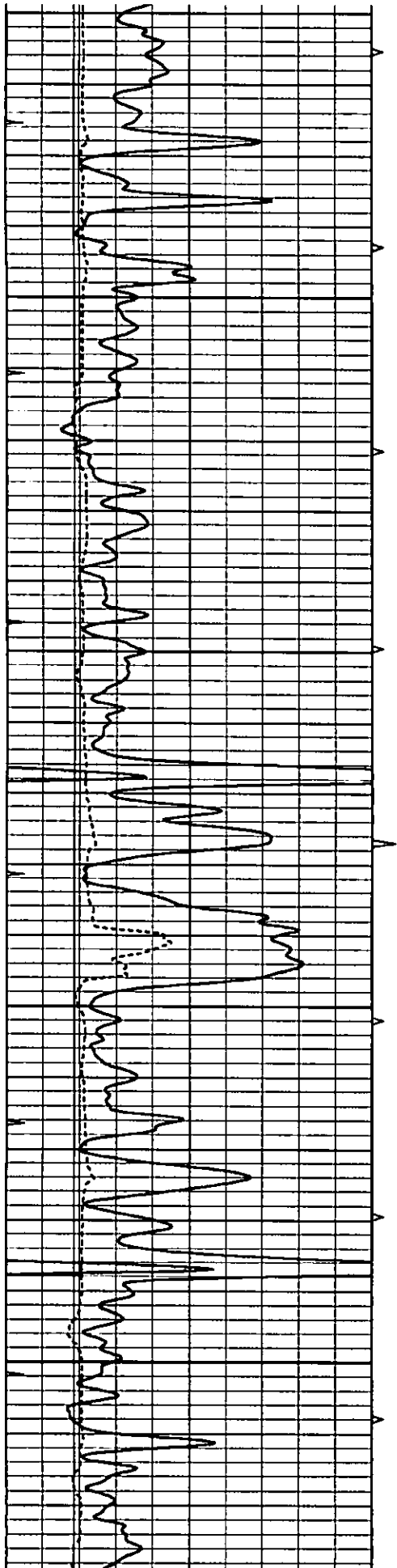
2400

2450

2500





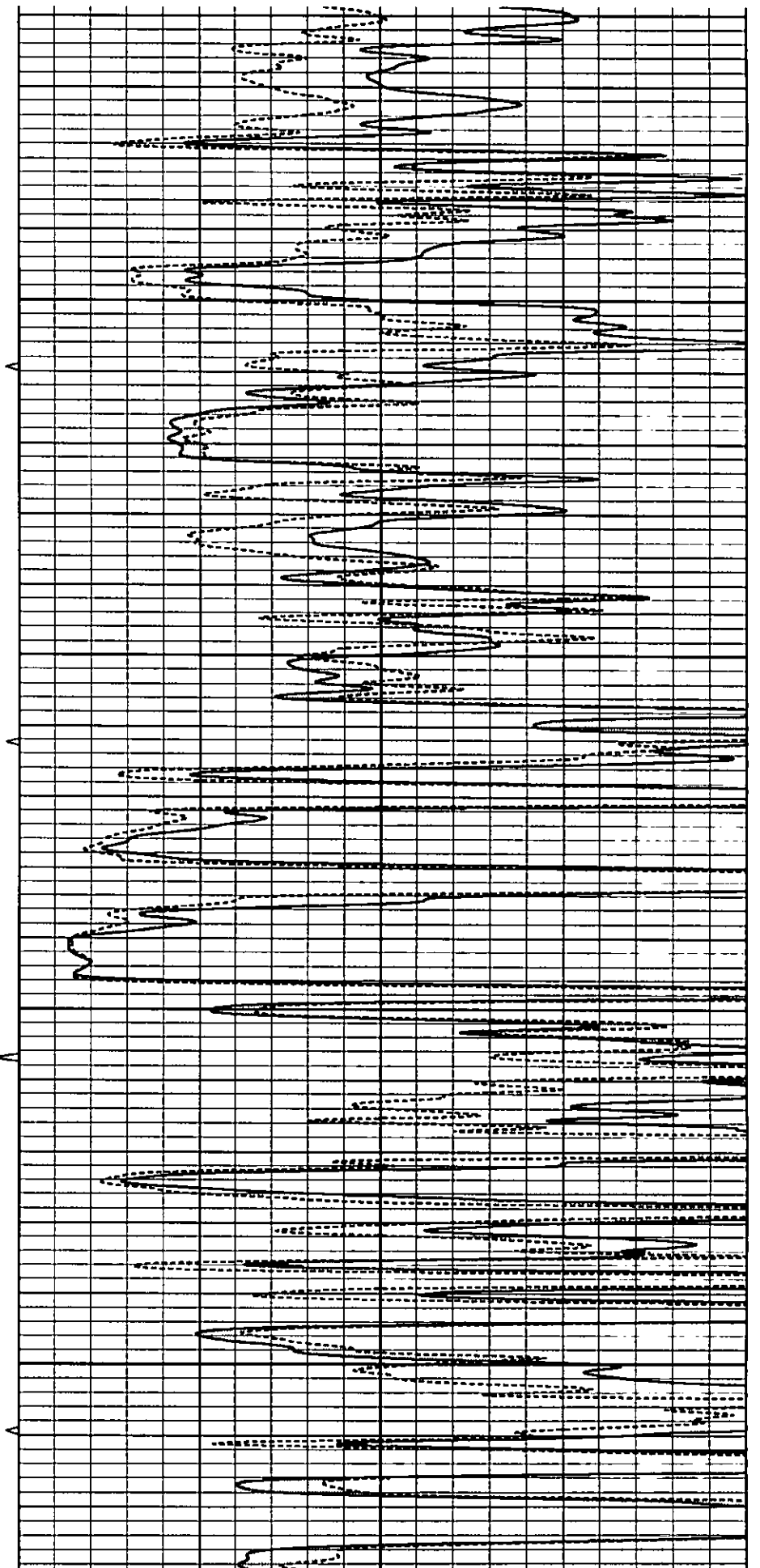


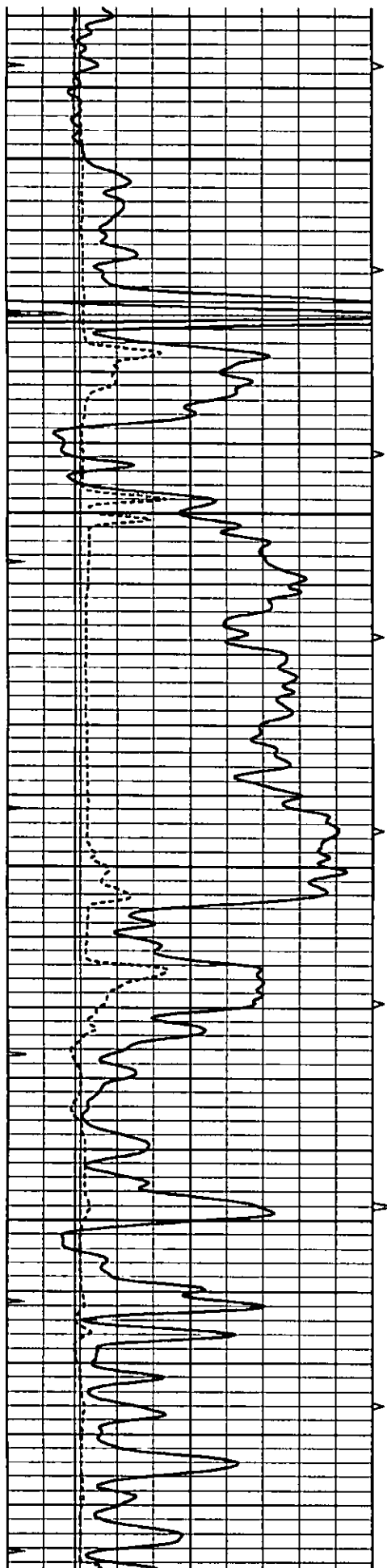
2800

2850

2900

2950



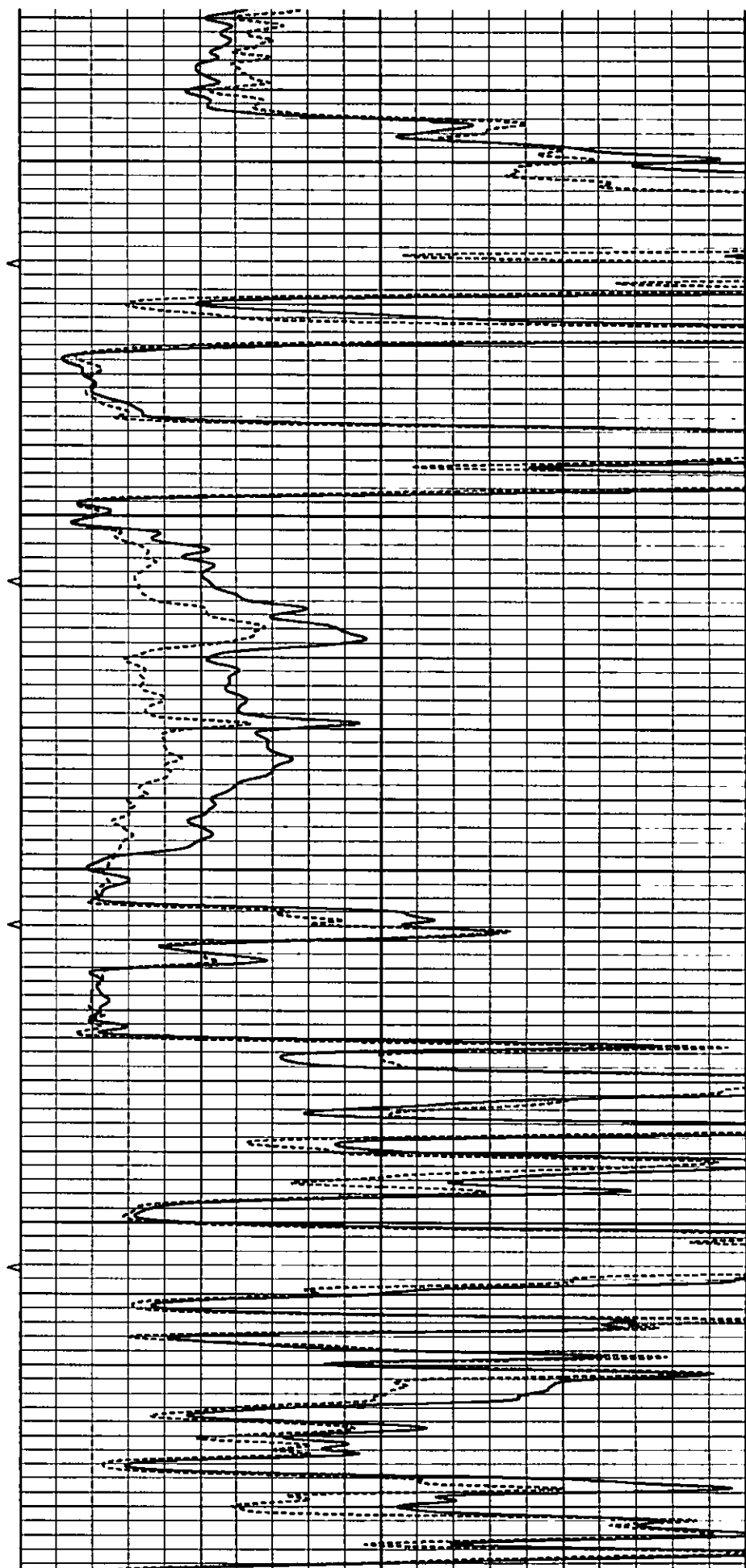


3000

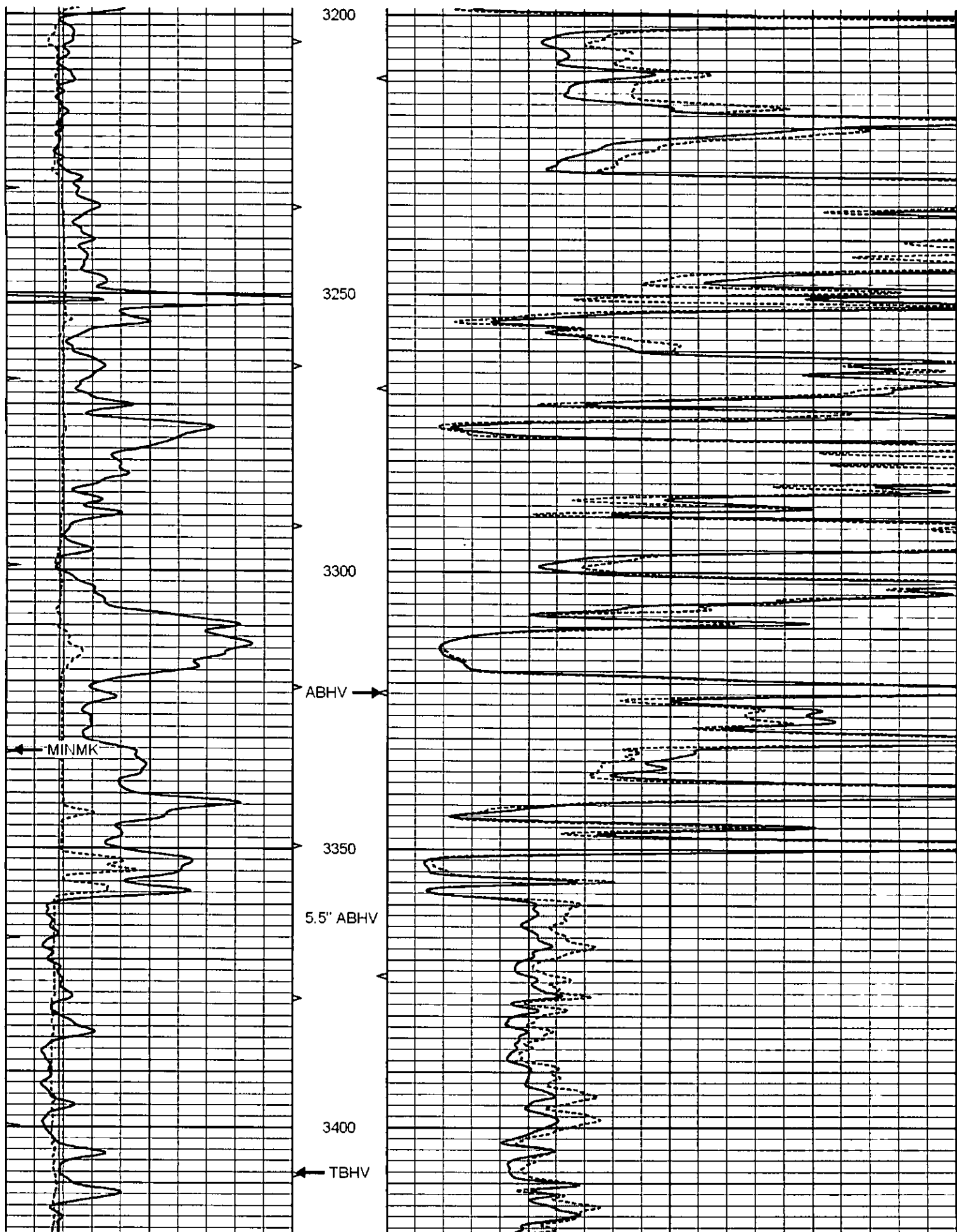
3050

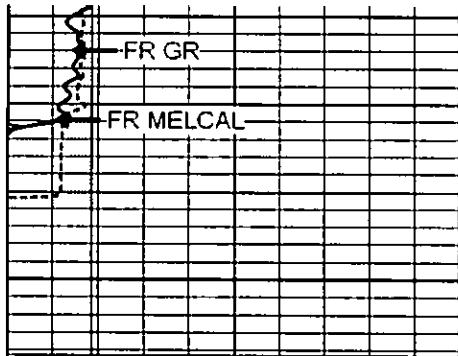
3100

3150



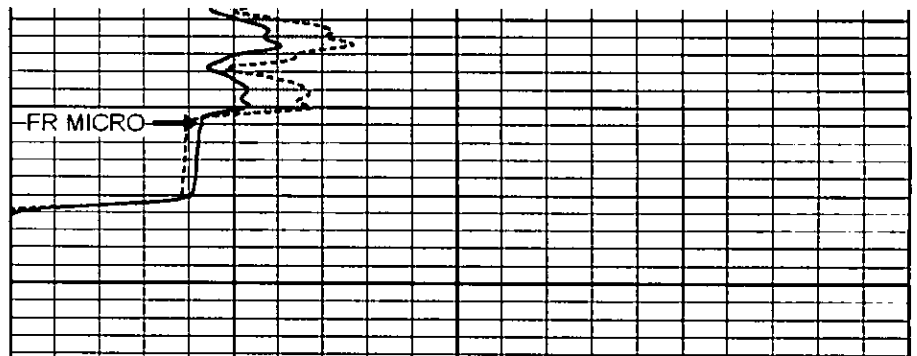






0	GAMMA RAY (GAPI)	150
6	MELCAL (in)	16
0	MINMK	20

3450



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		Other Services CDL/CNL SONIC/MEL
SEC 123 TWP 17S RGE 13W		Elevation
Permanent Datum	GROUND LEVEL	Elevation 1856
Log Measured From	KELLY BUSHING 9' A.G.L.	
Drilling Measured From	KELLY BUSHING	
	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	
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 >>>

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.



# MAIN SECTION

Database File: 001214ddn.db  
 Dataset Pathname: pass3.1  
 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

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

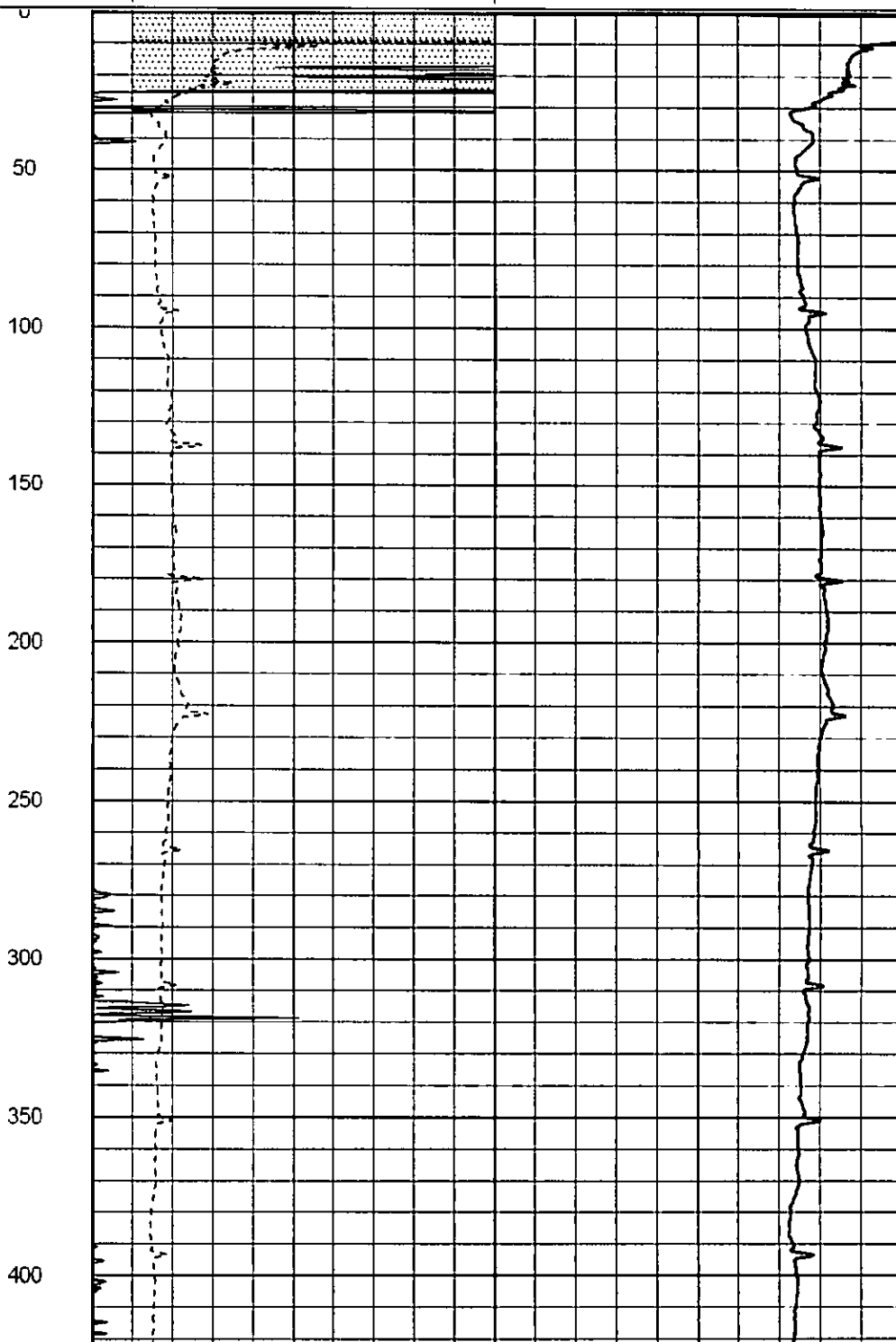
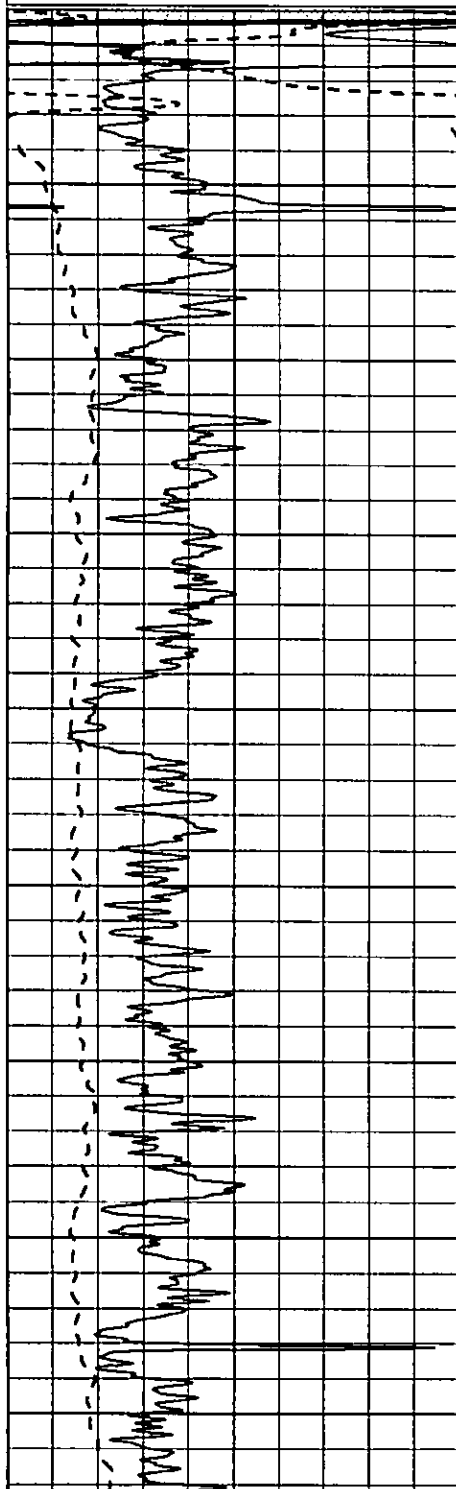
0	RLL3 (Ohm-m)	50
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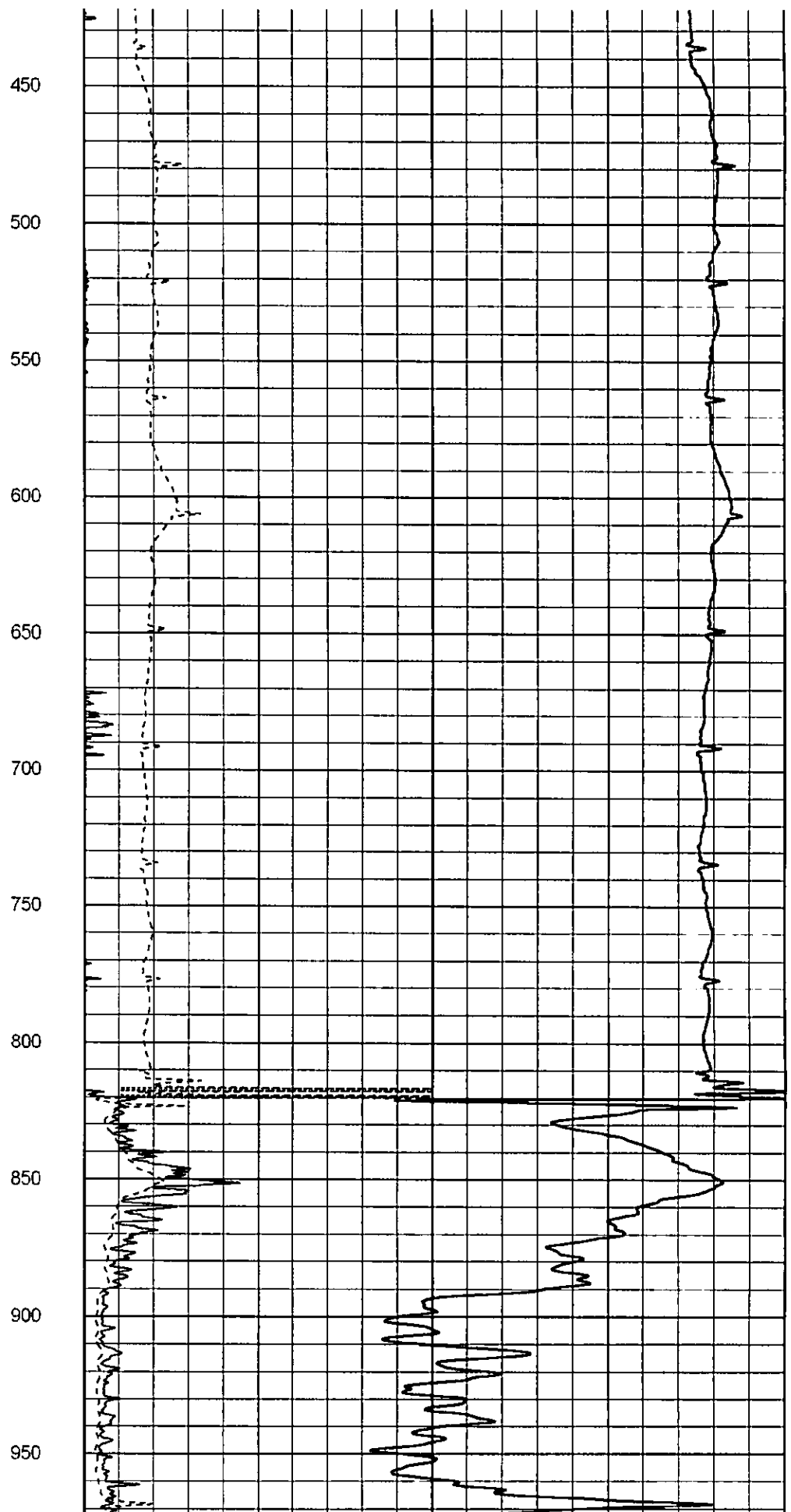
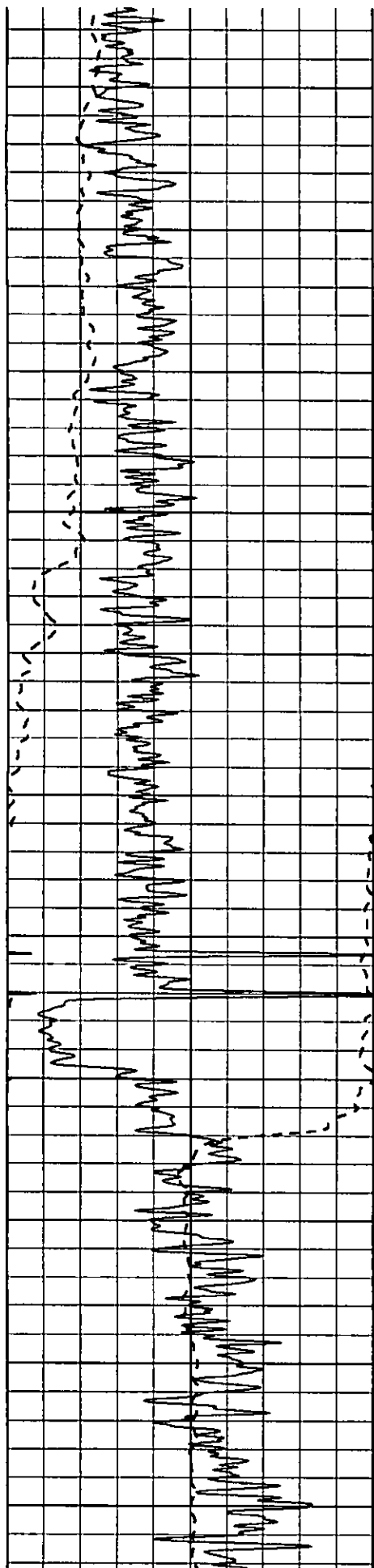
0	Deep Induction (Ohm-m)	50
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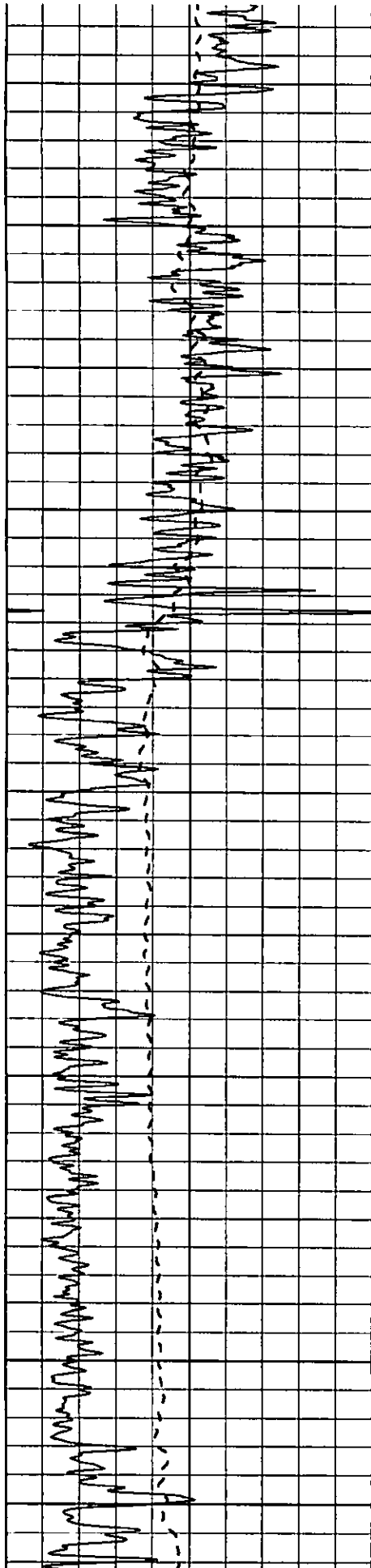
1000	CILD (mmho/m)	0
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50	RILD X10 (Ohm-m)	500
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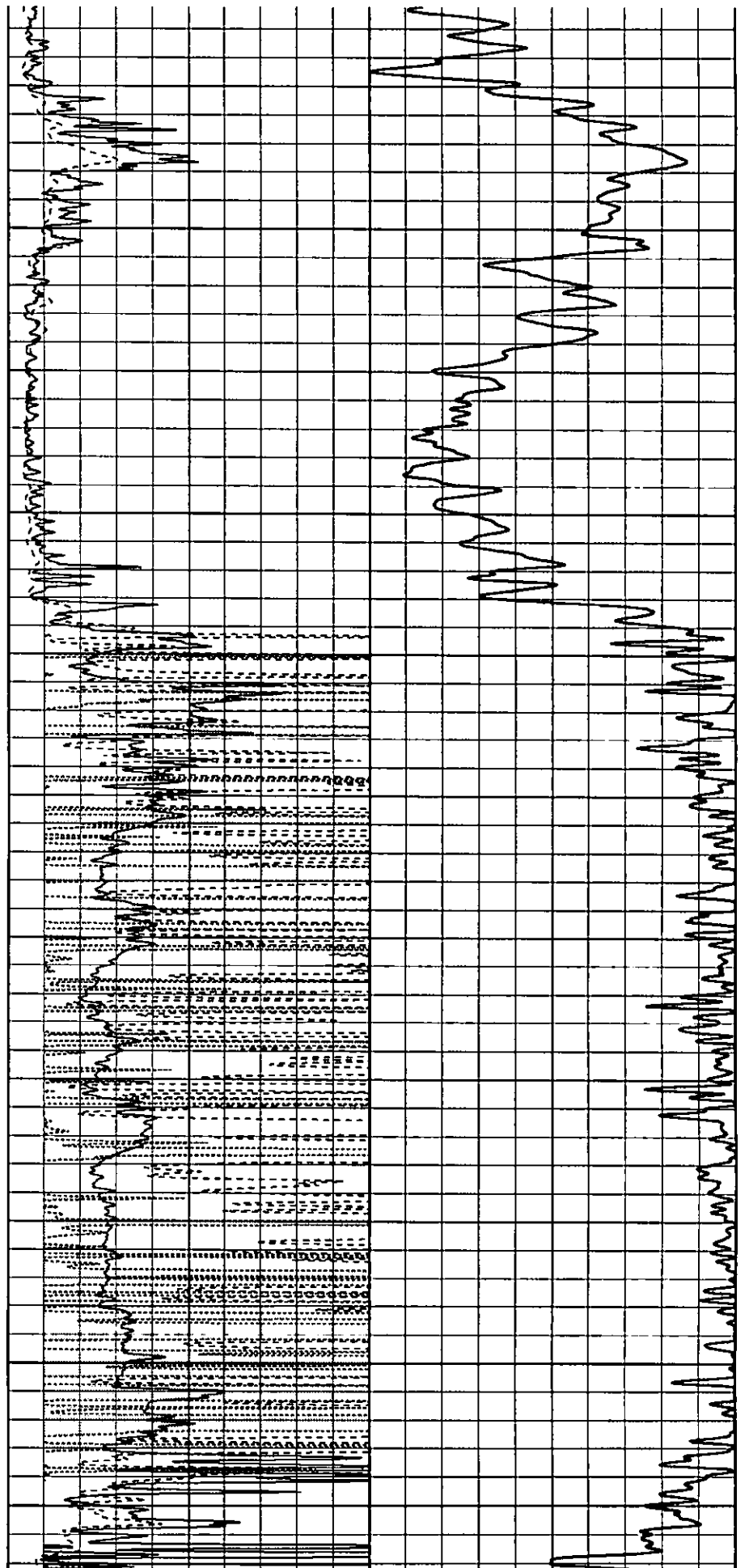
50	RLL3 X10 (Ohm-m)	500
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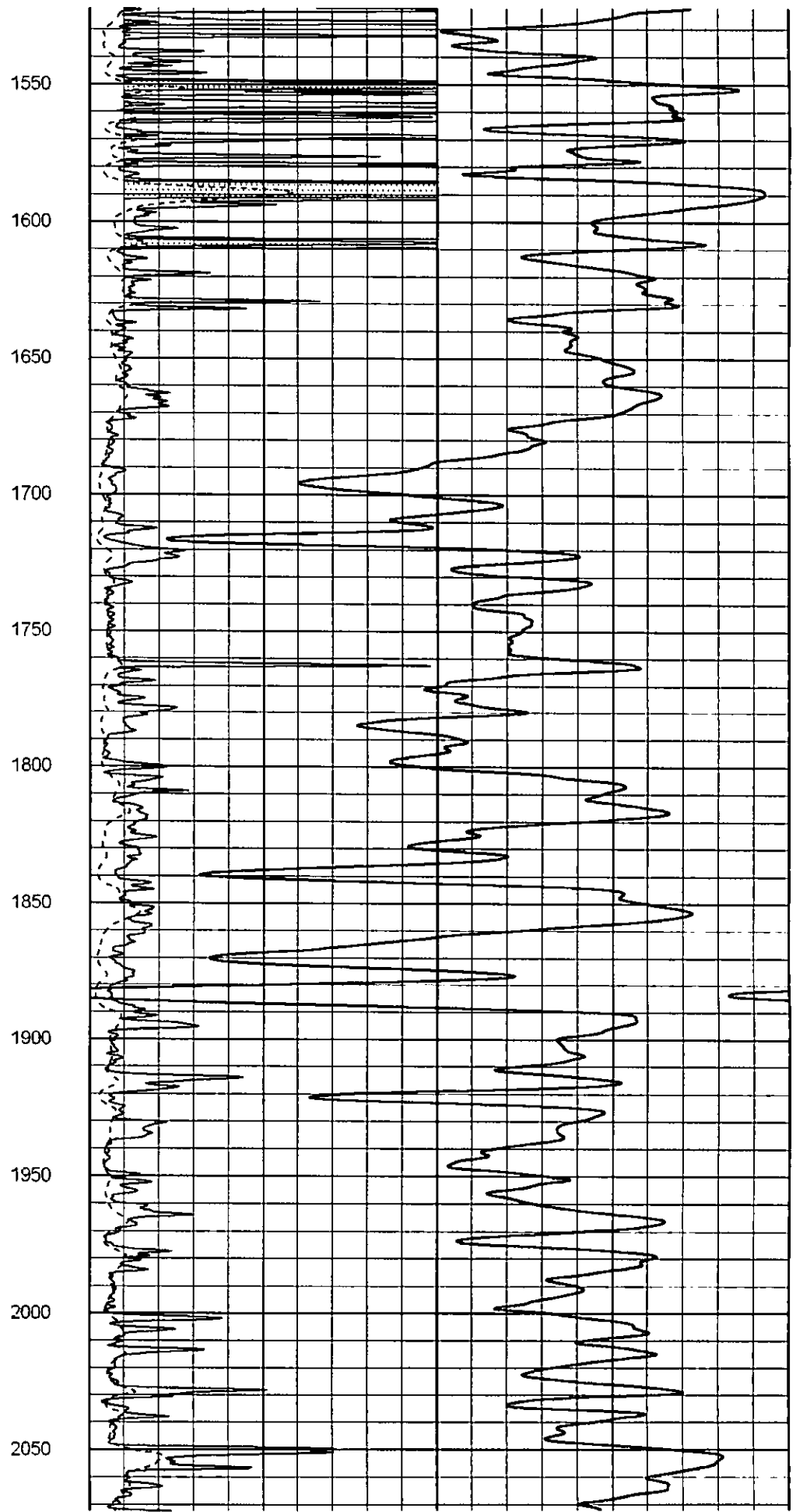
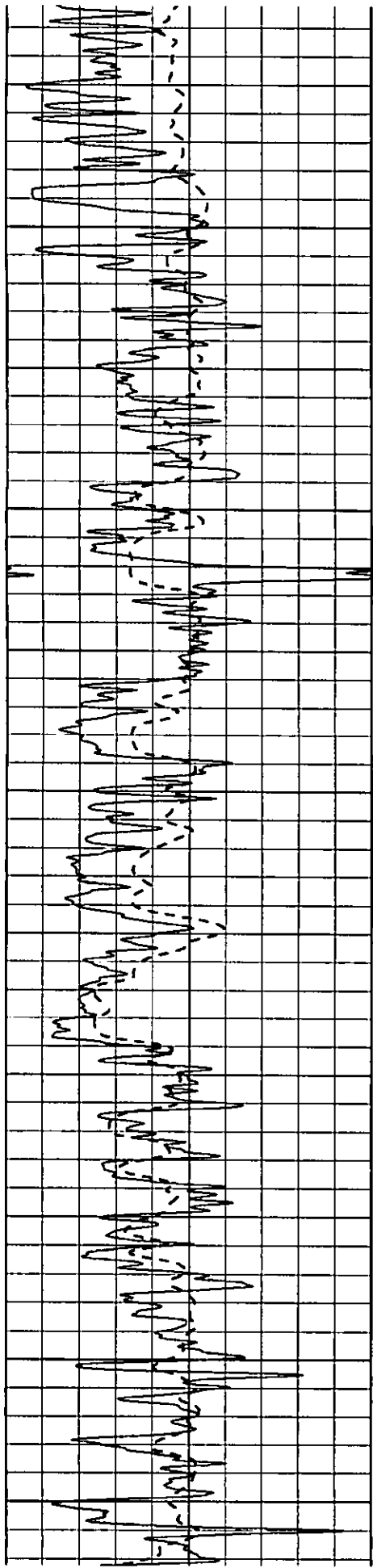


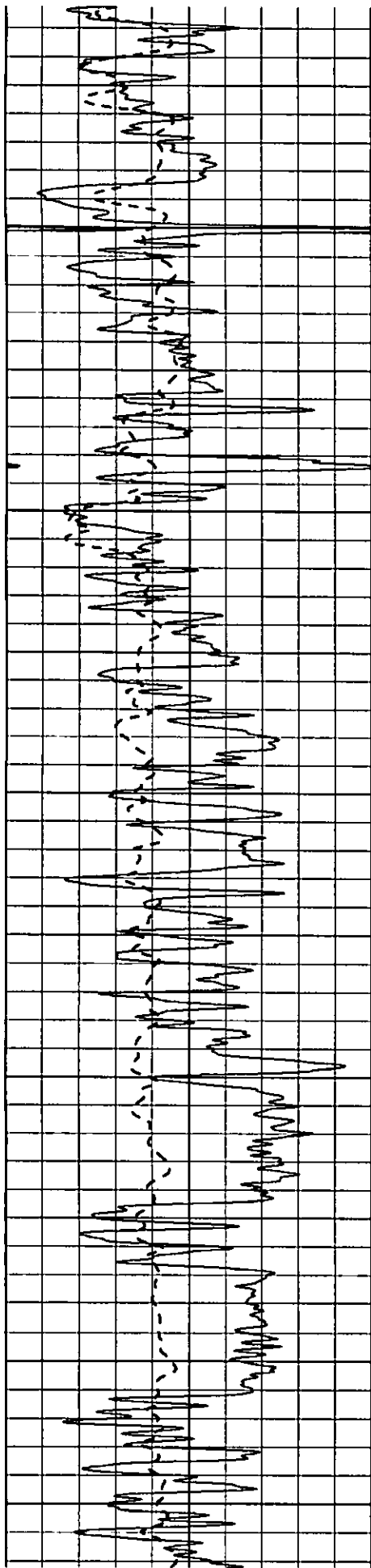




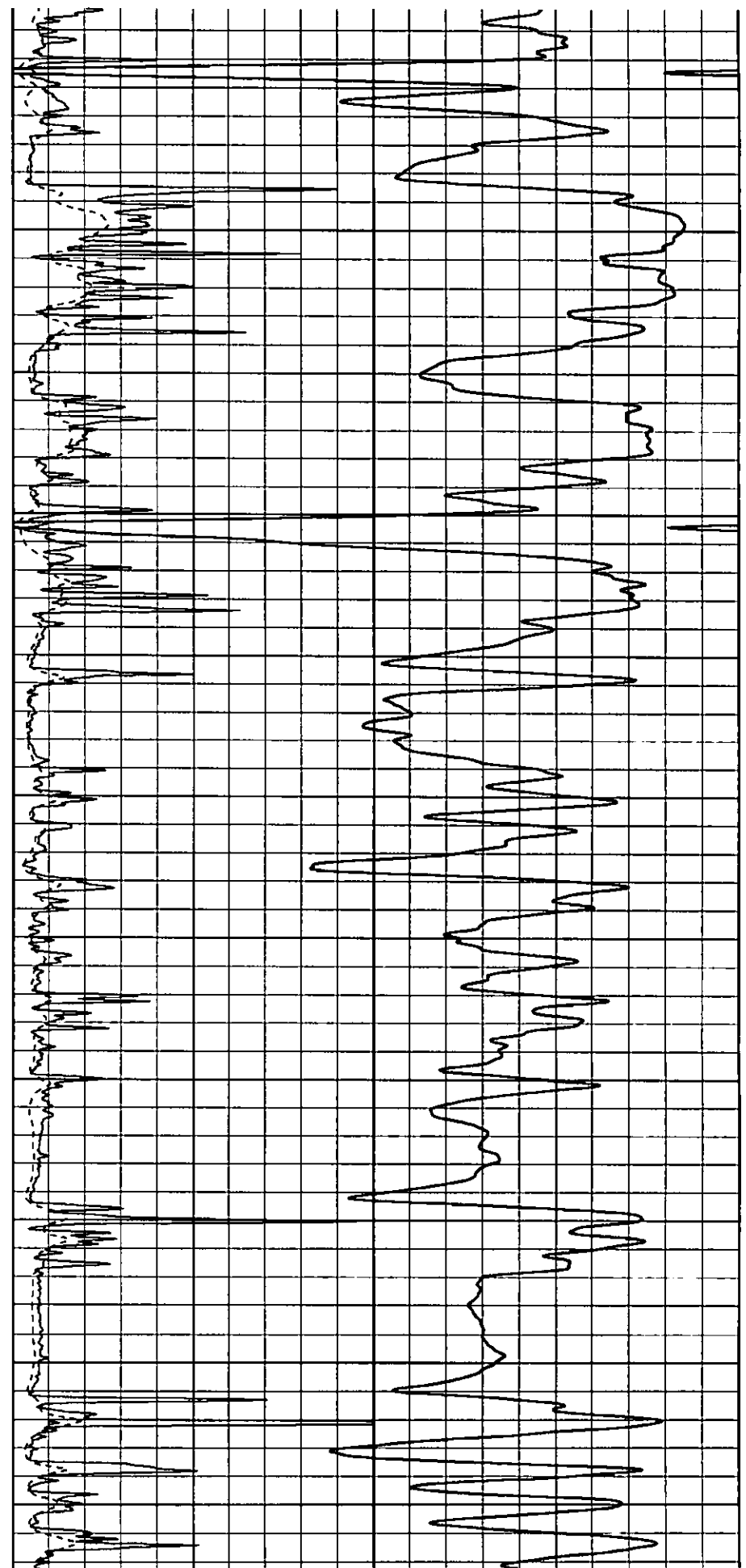
1000  
1050  
1100  
1150  
1200  
1250  
1300  
1350  
1400  
1450  
1500



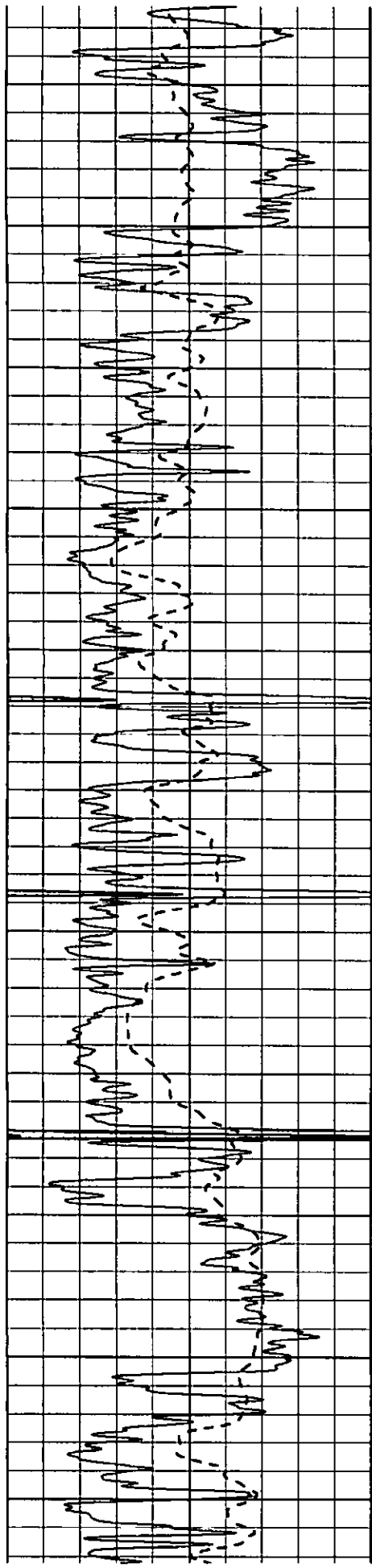




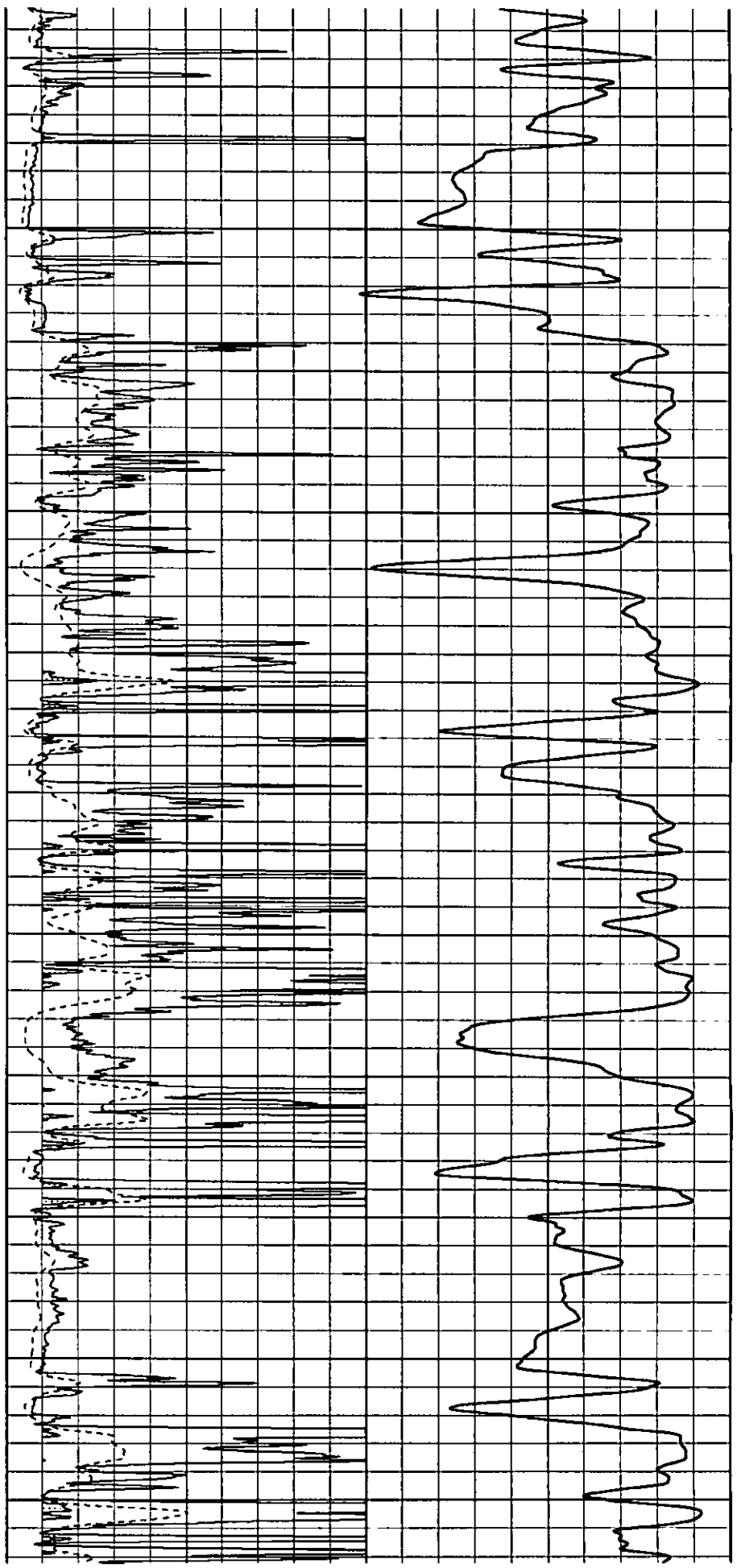
2100  
2150  
2200  
2250  
2300  
2350  
2400  
2450  
2500  
2550  
2600

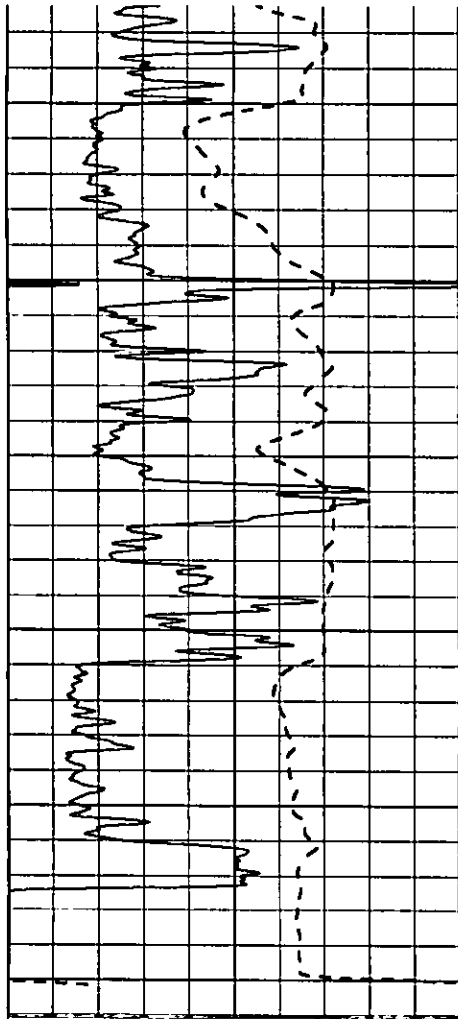




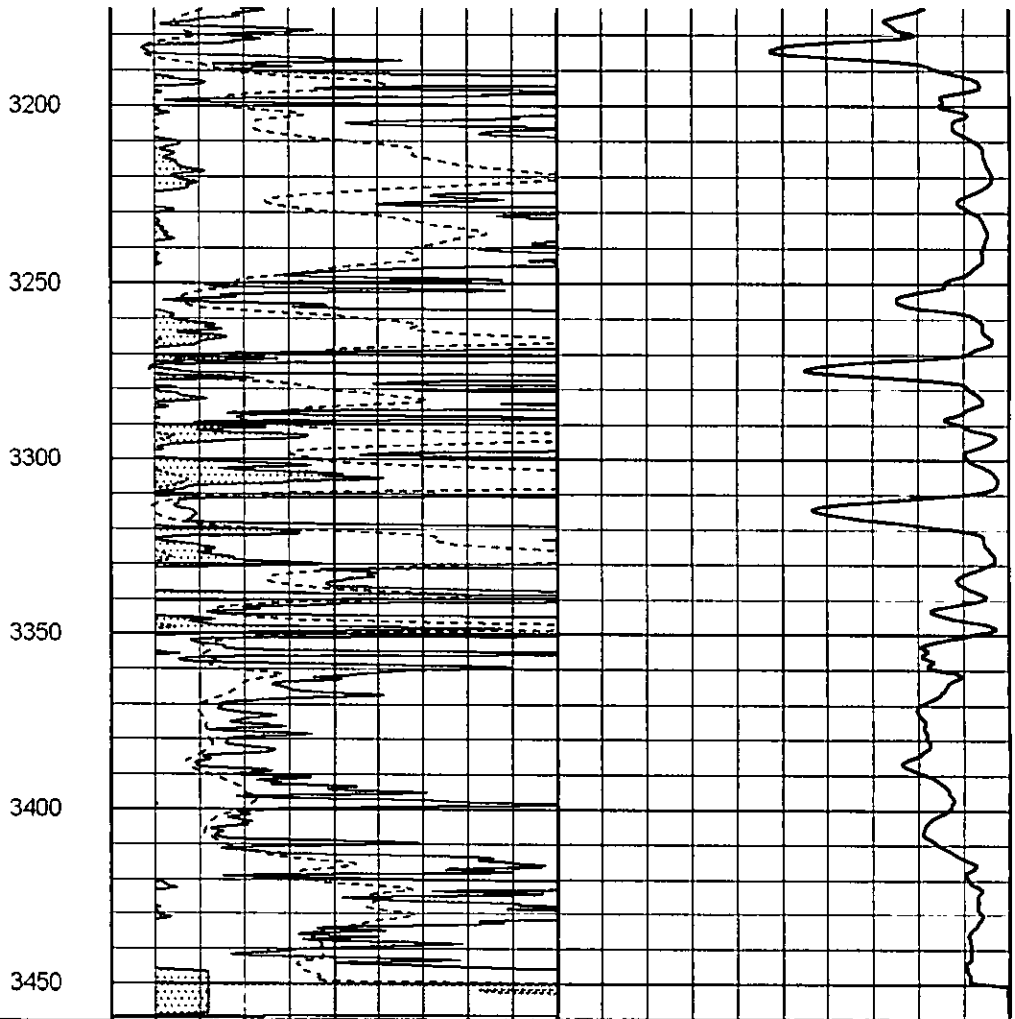


2650  
2700  
2750  
2800  
2850  
2900  
2950  
3000  
3050  
3100  
3150





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
50	RILD X10 (Ohm-m)	500
50	RLL3 X10 (Ohm-m)	500



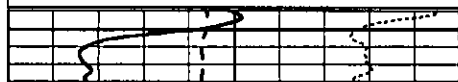
SUPERIOR  
Hays,  
Kansas

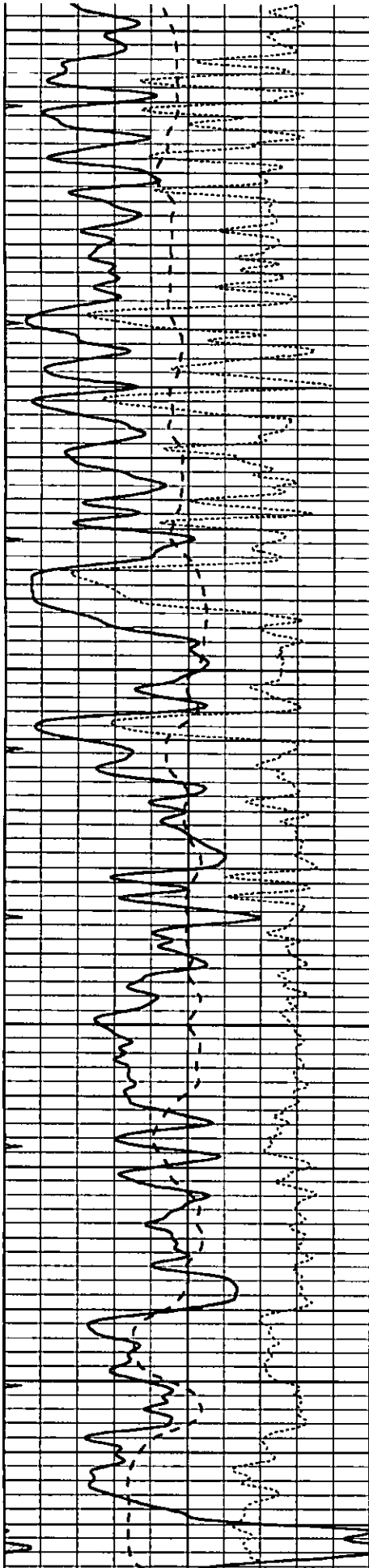
# MAIN SECTION

Database File: 001214ddn.db  
 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
-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



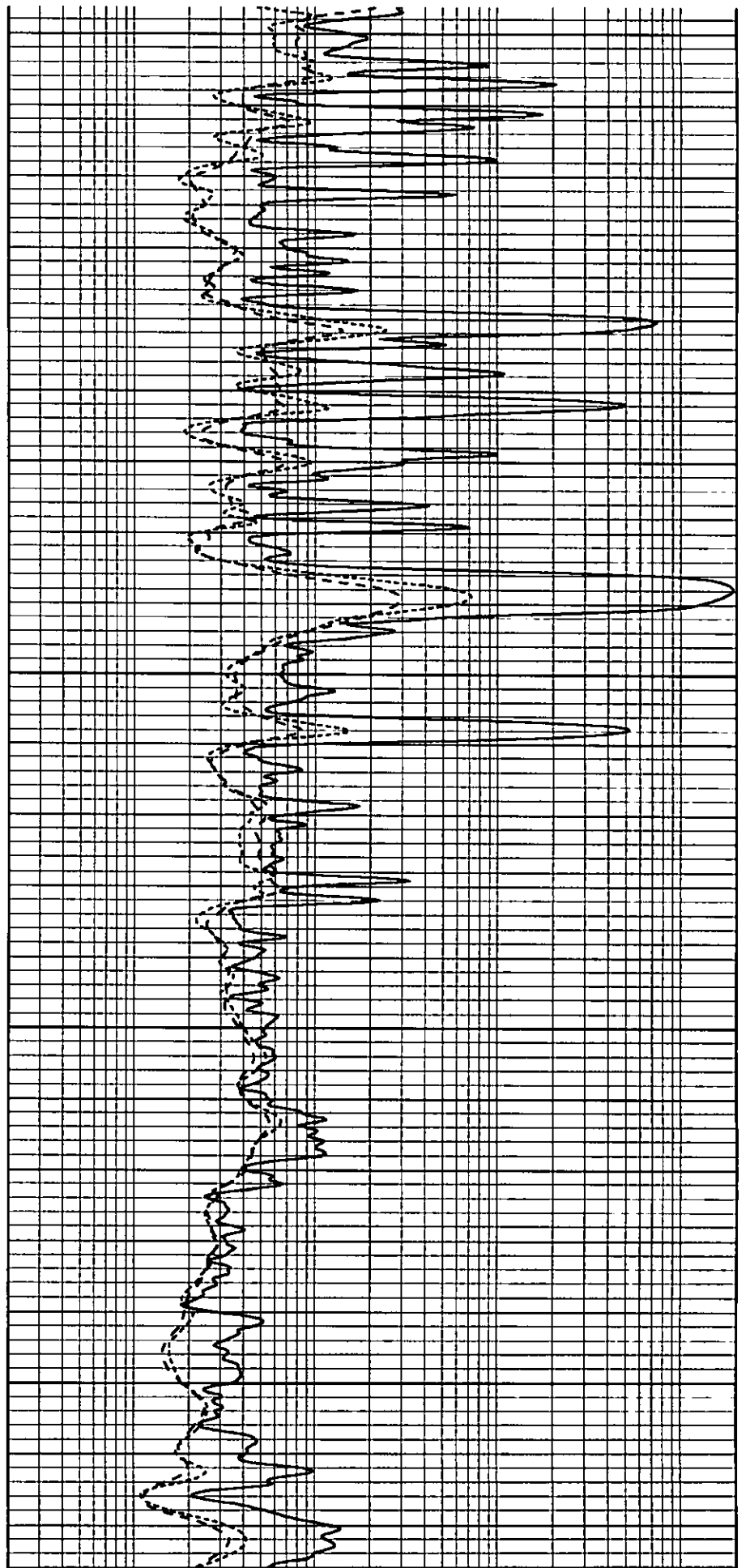


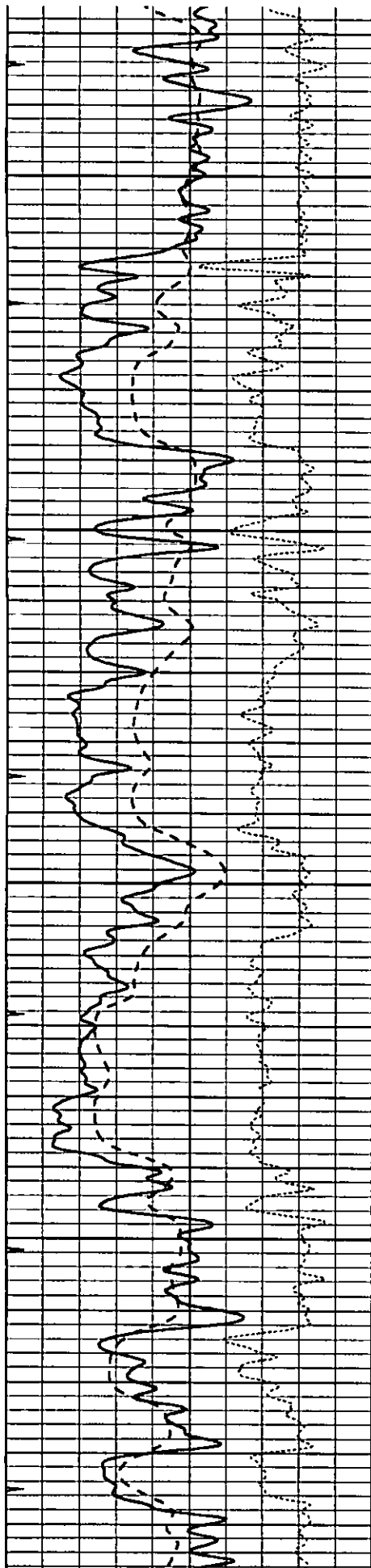
1550

1600

1650

1700



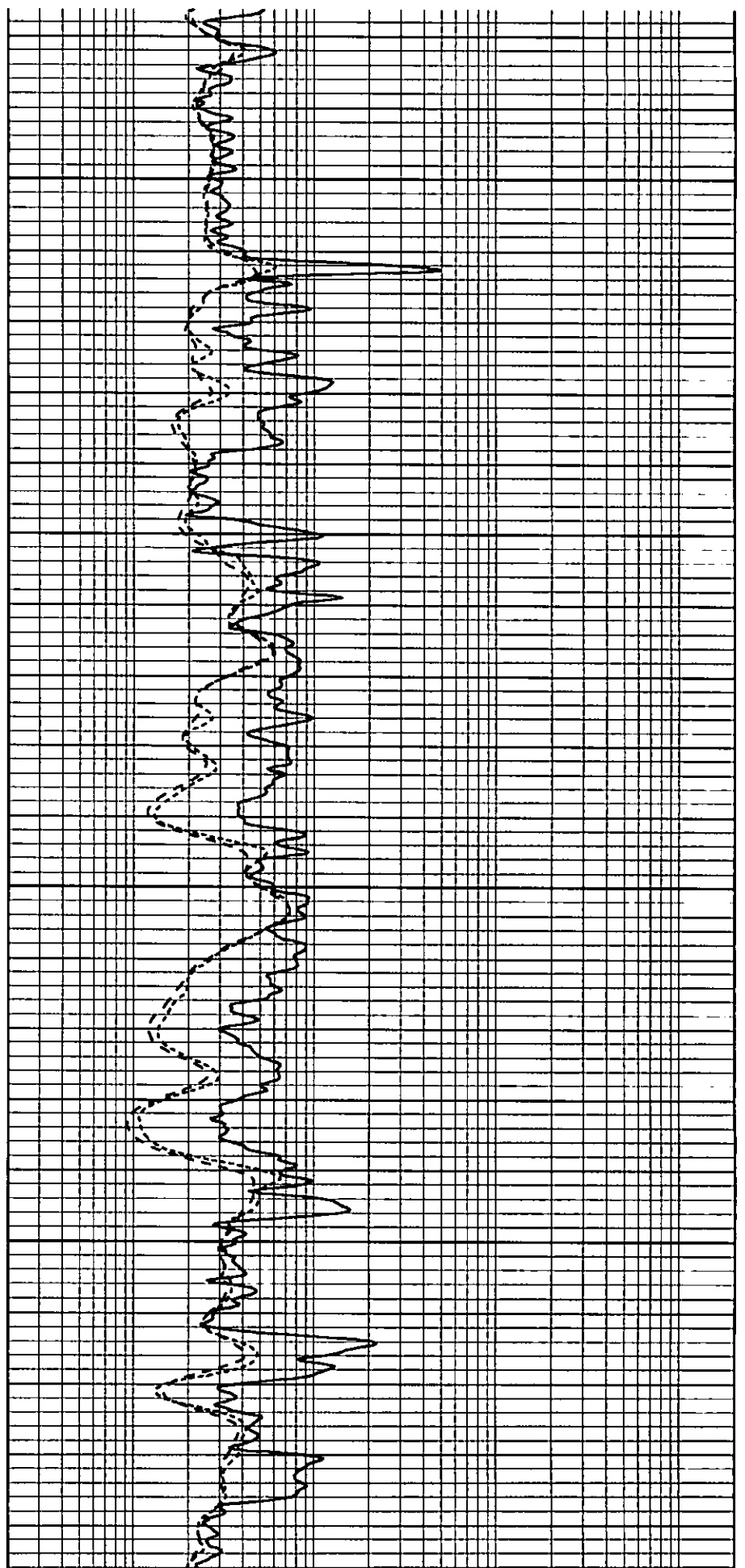


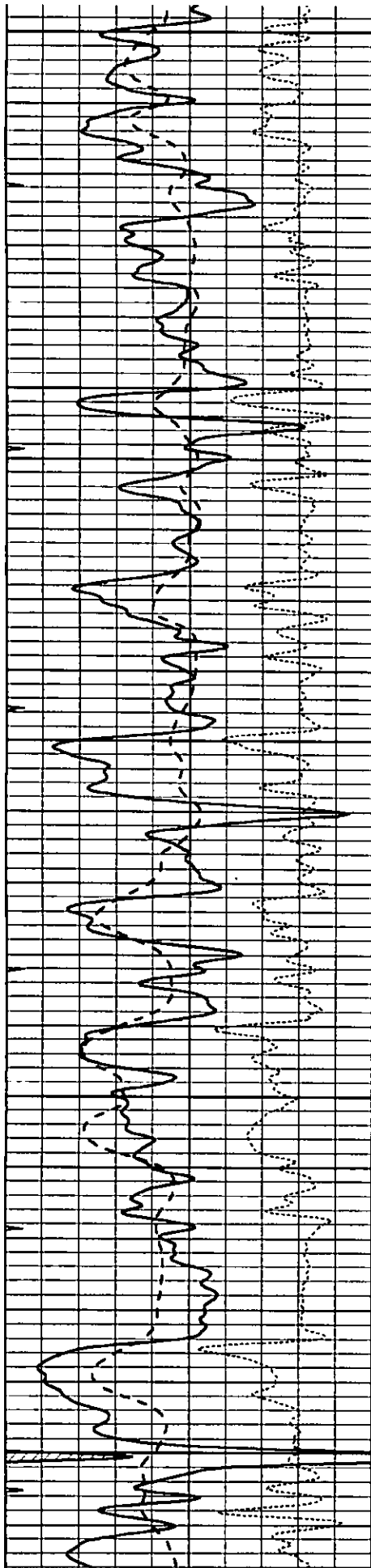
1750

1800

1850

1900





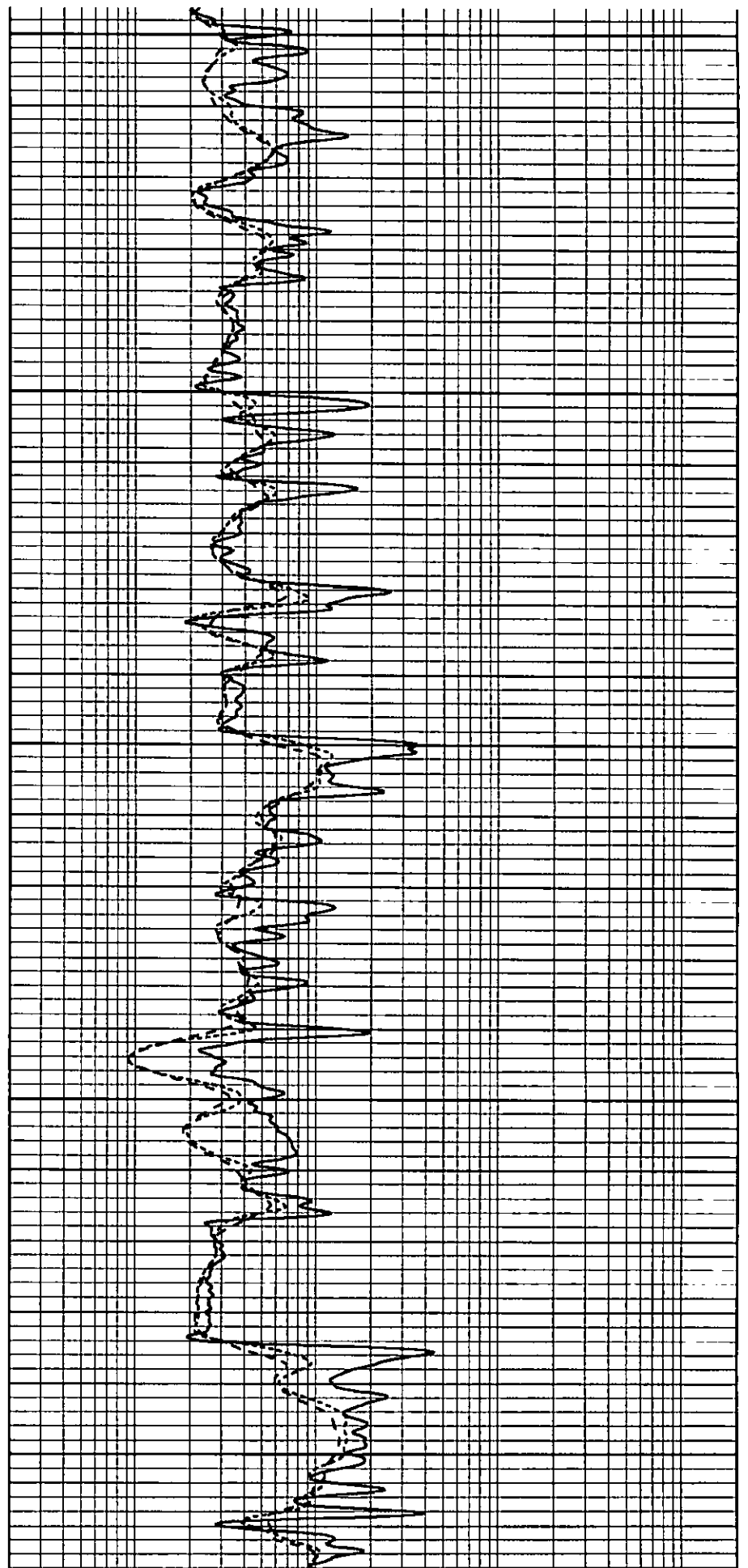
1950

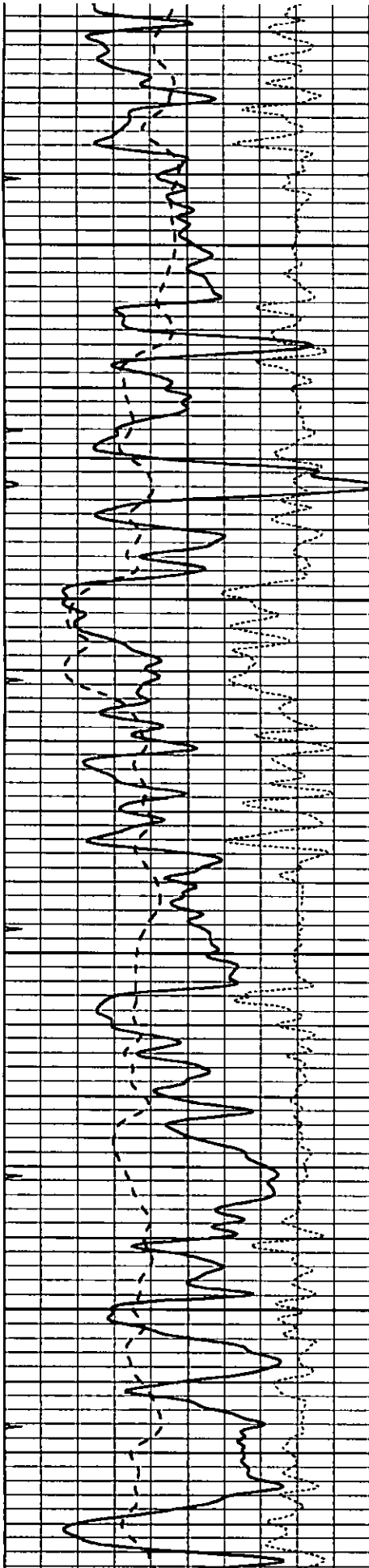
2000

2050

2100

2150



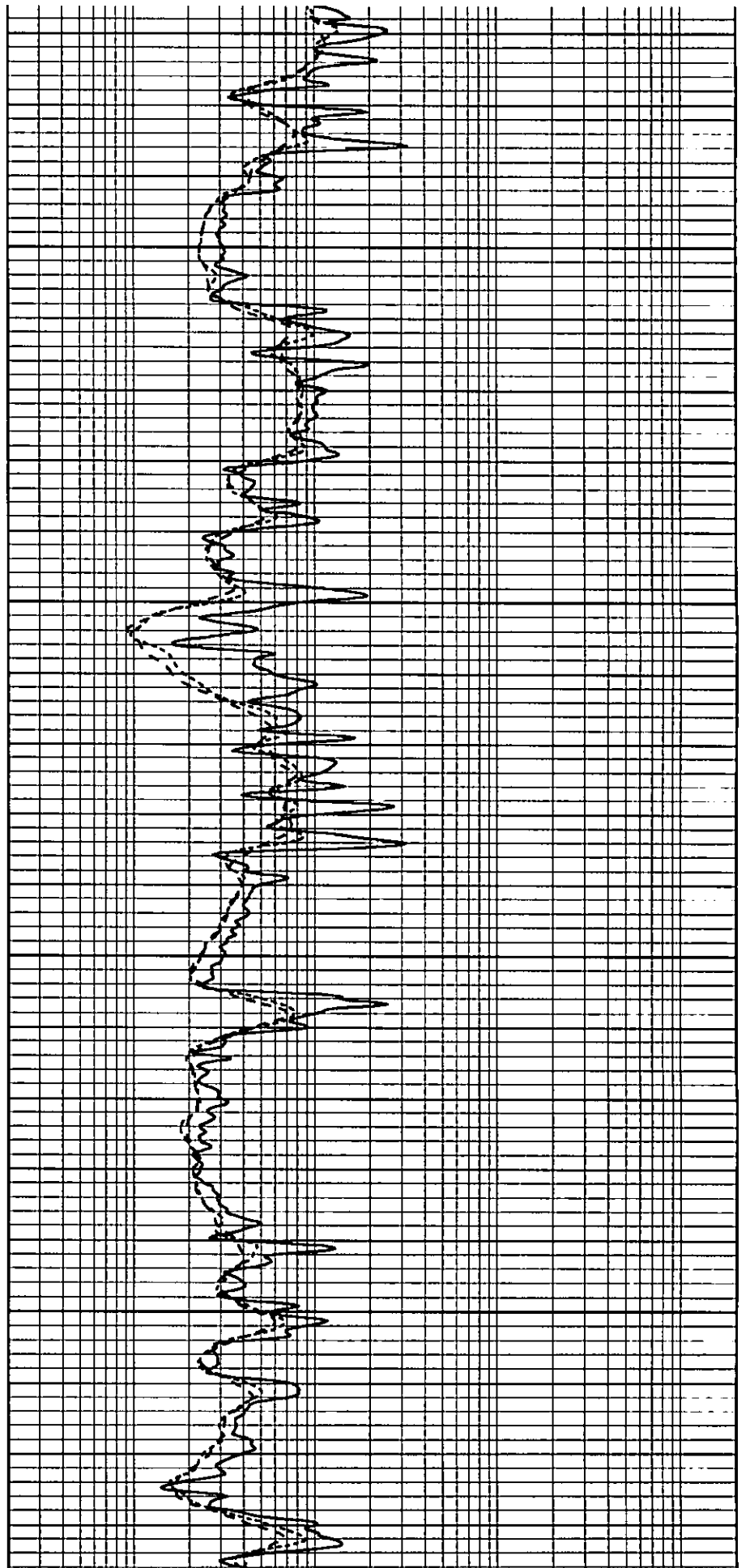


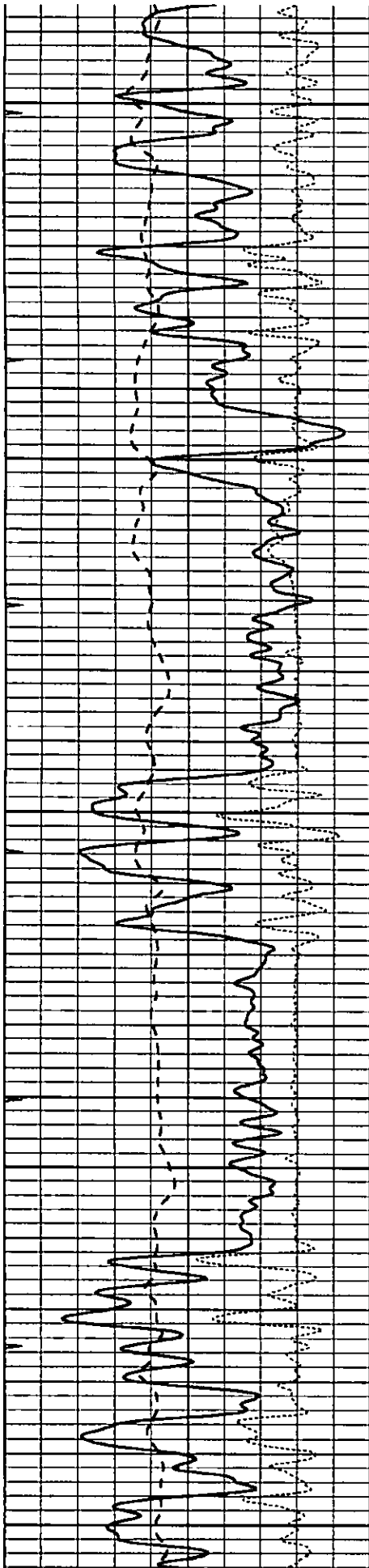
2200

2250

2300

2350





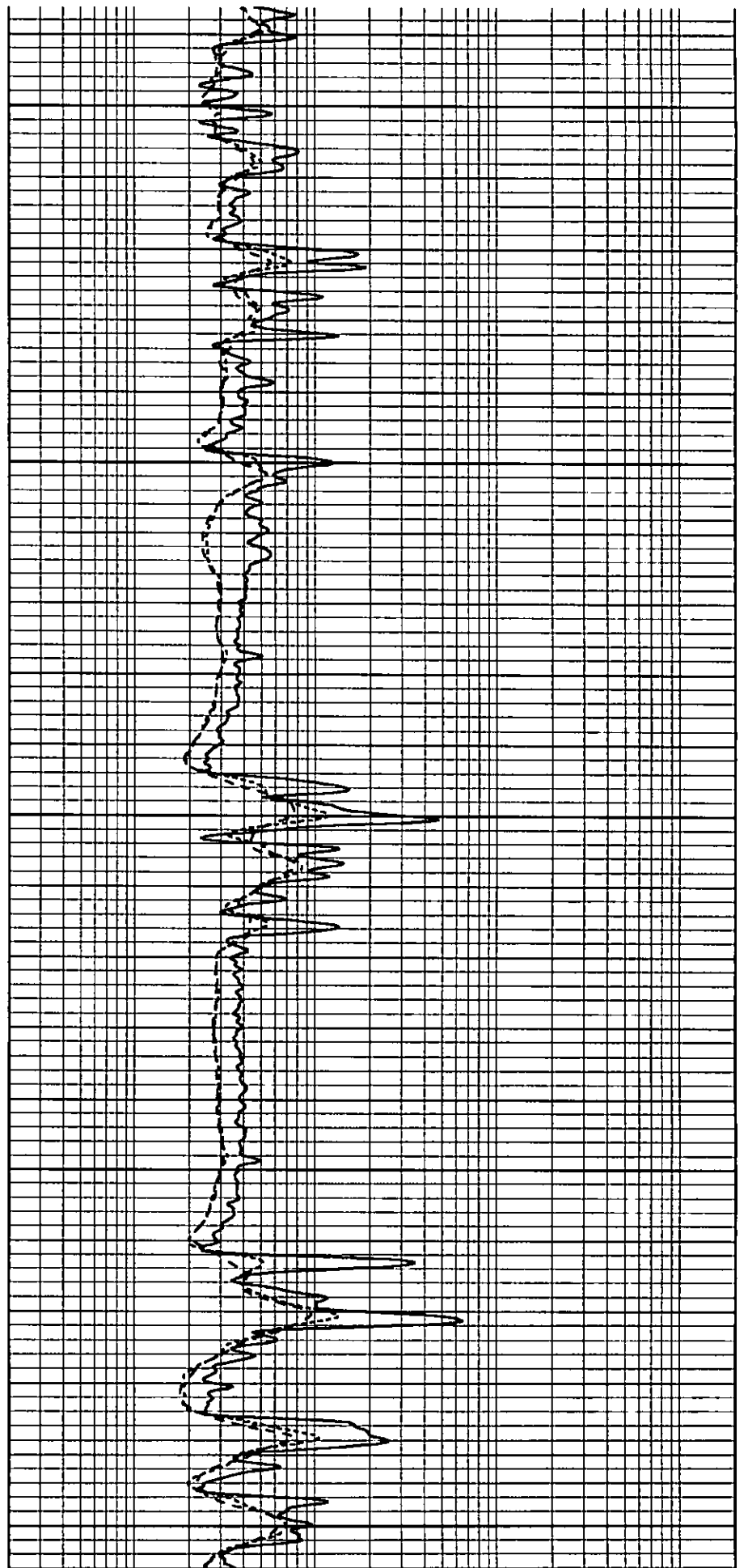
2400

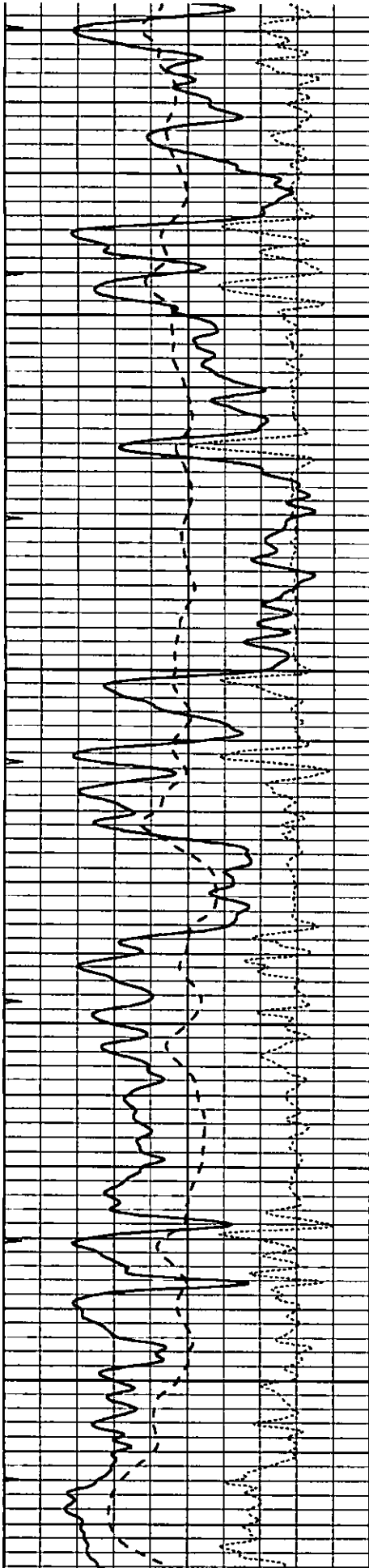
2450

2500

2550

2600



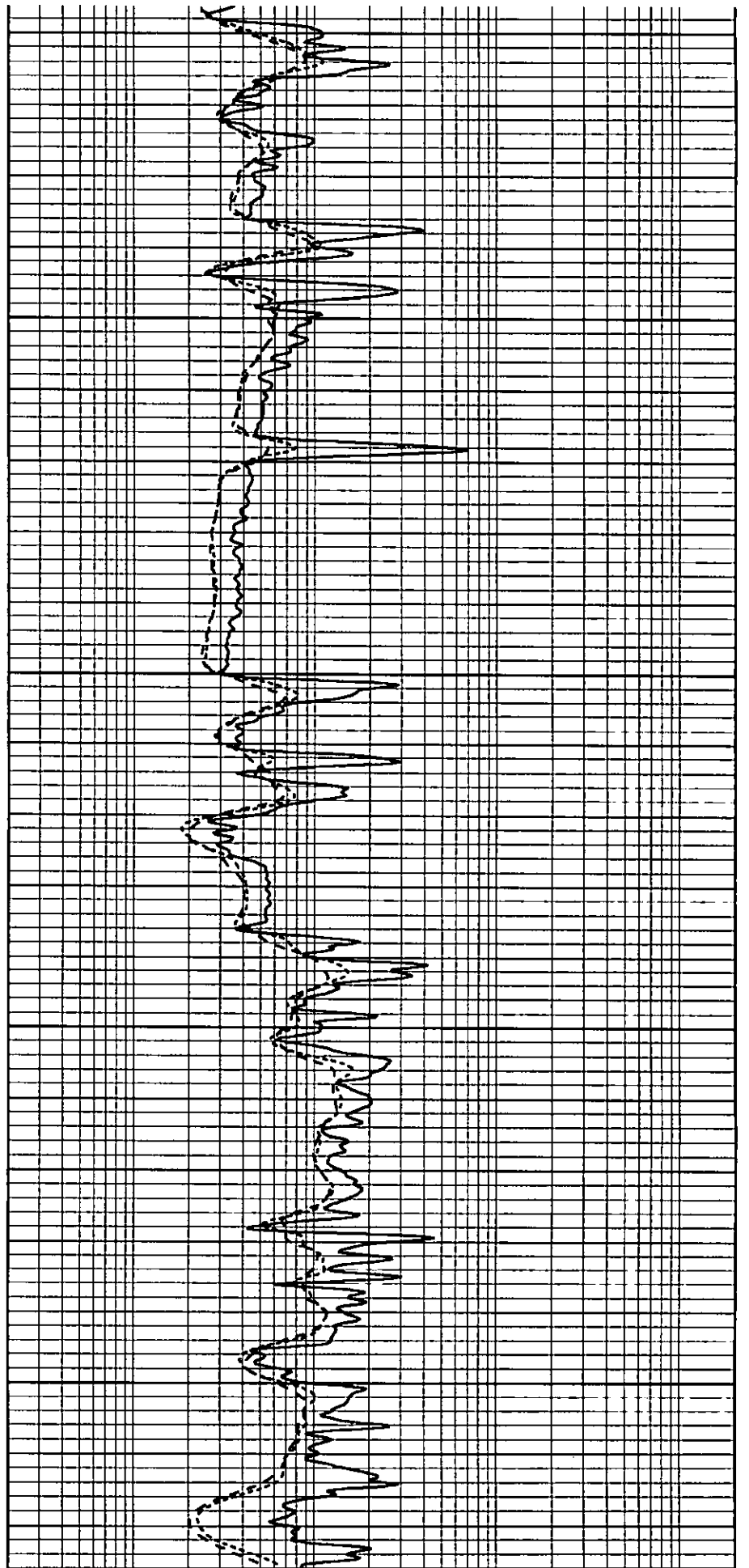


2650

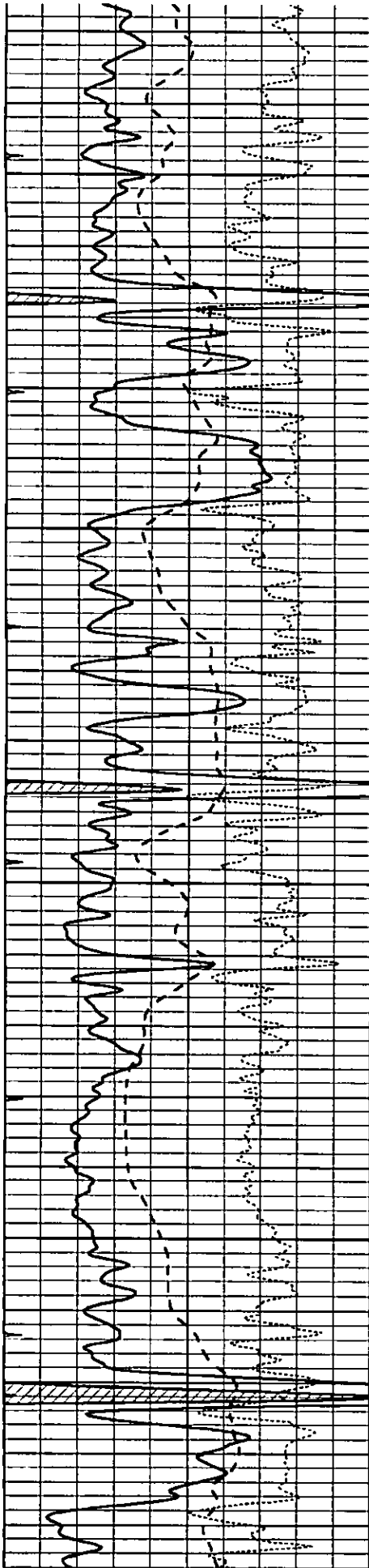
2700

2750

2800





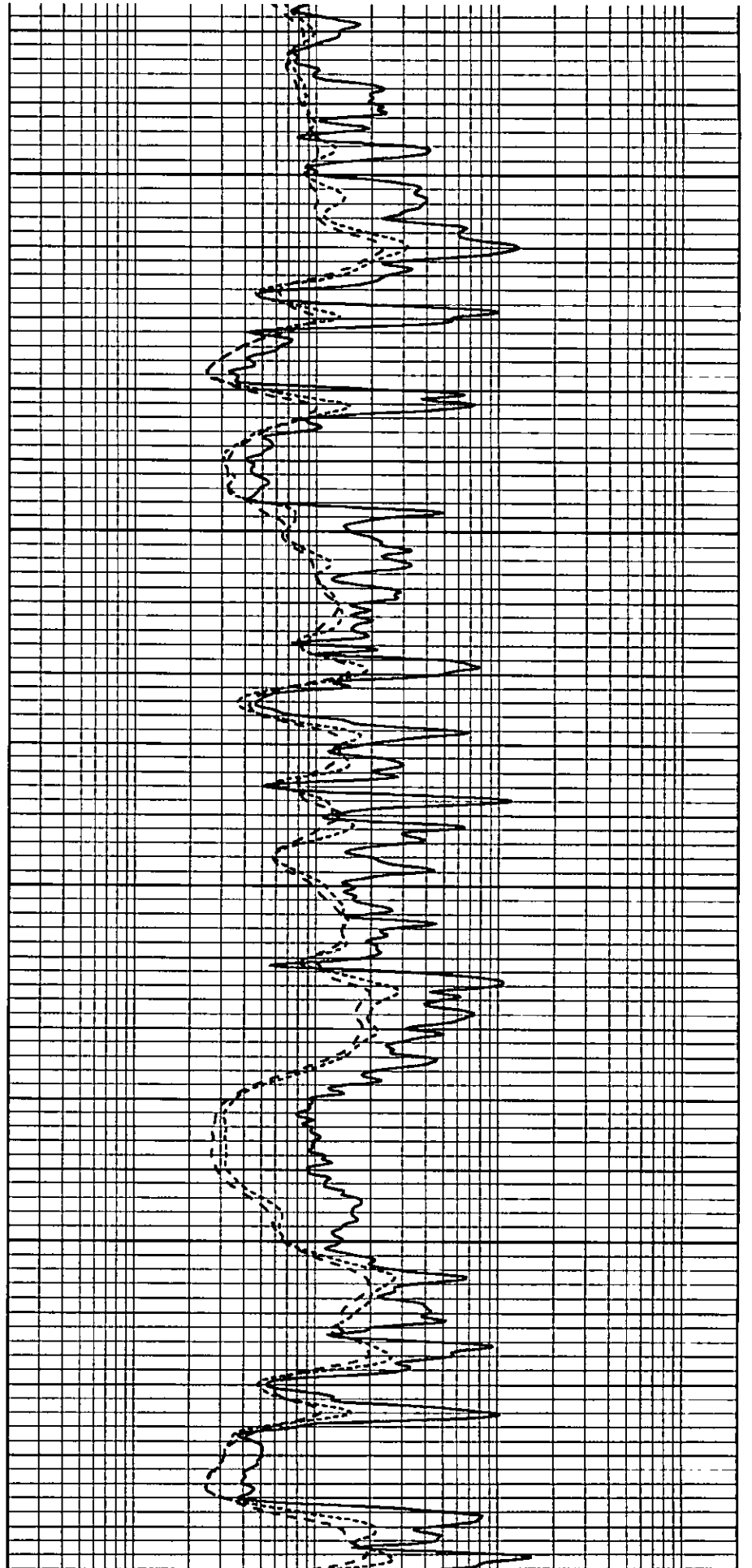


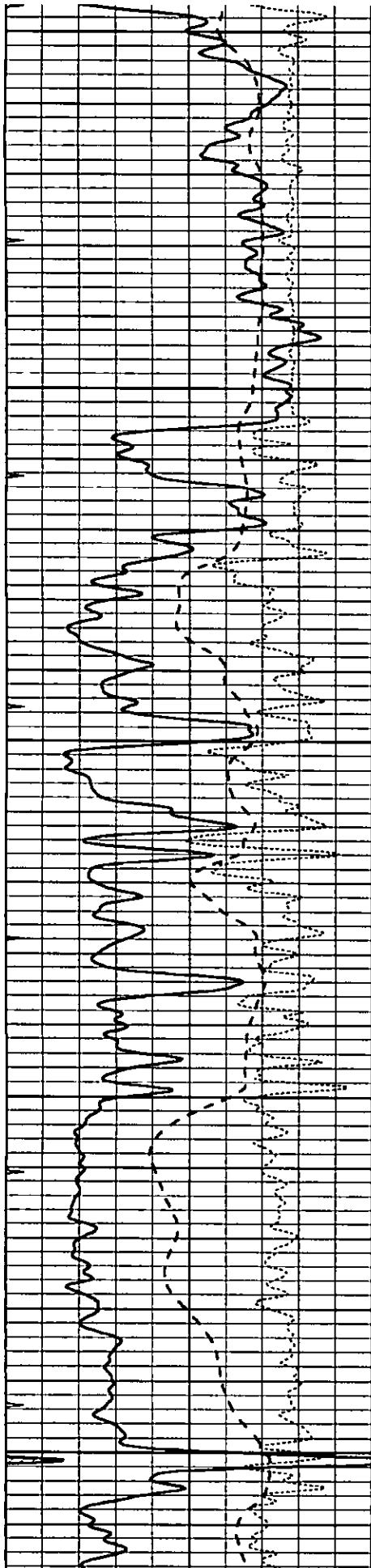
2850

2900

2950

3000





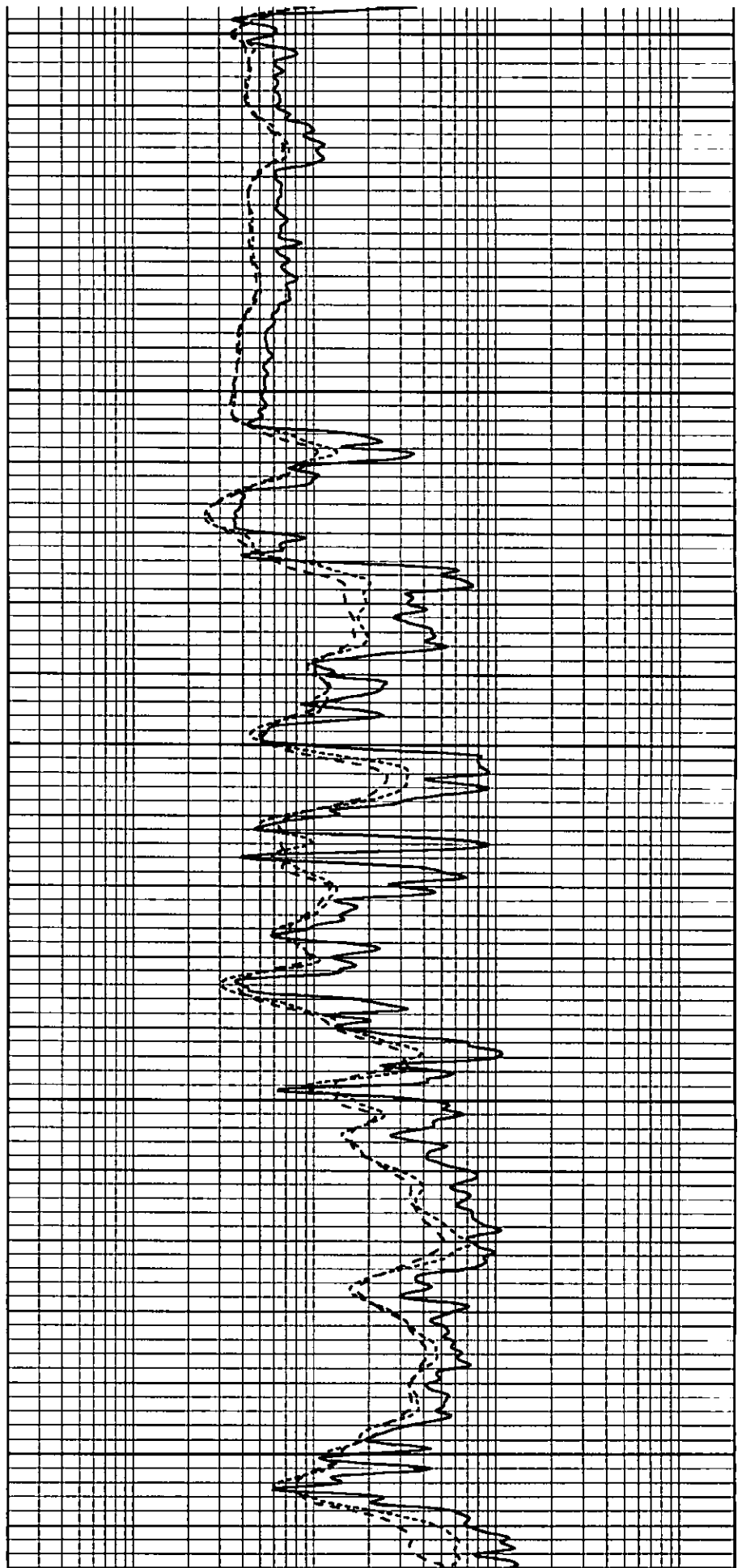
3050

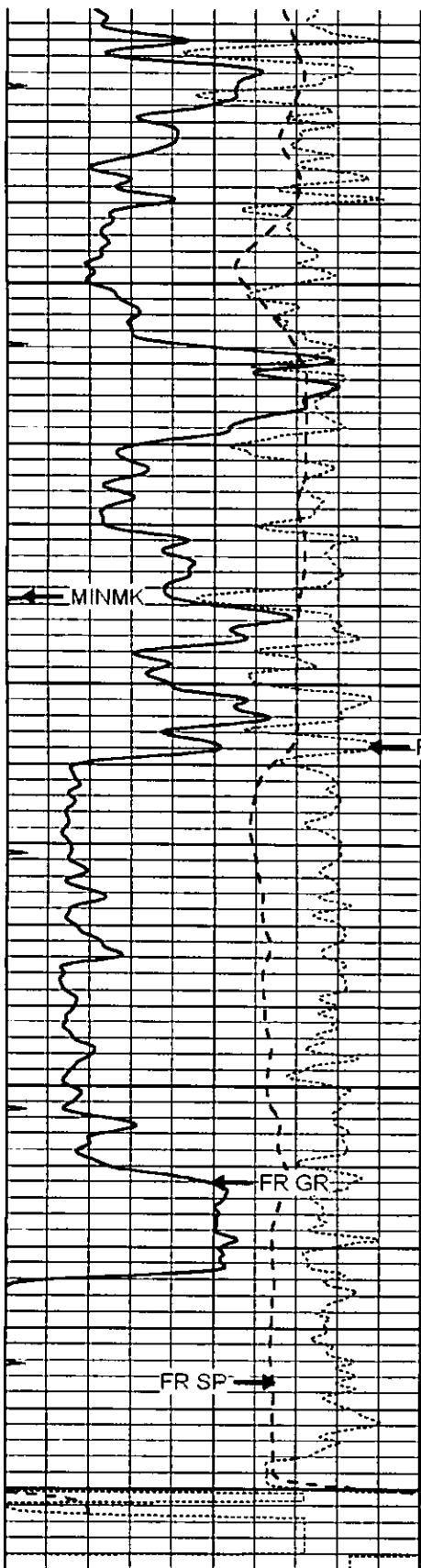
3100

3150

3200

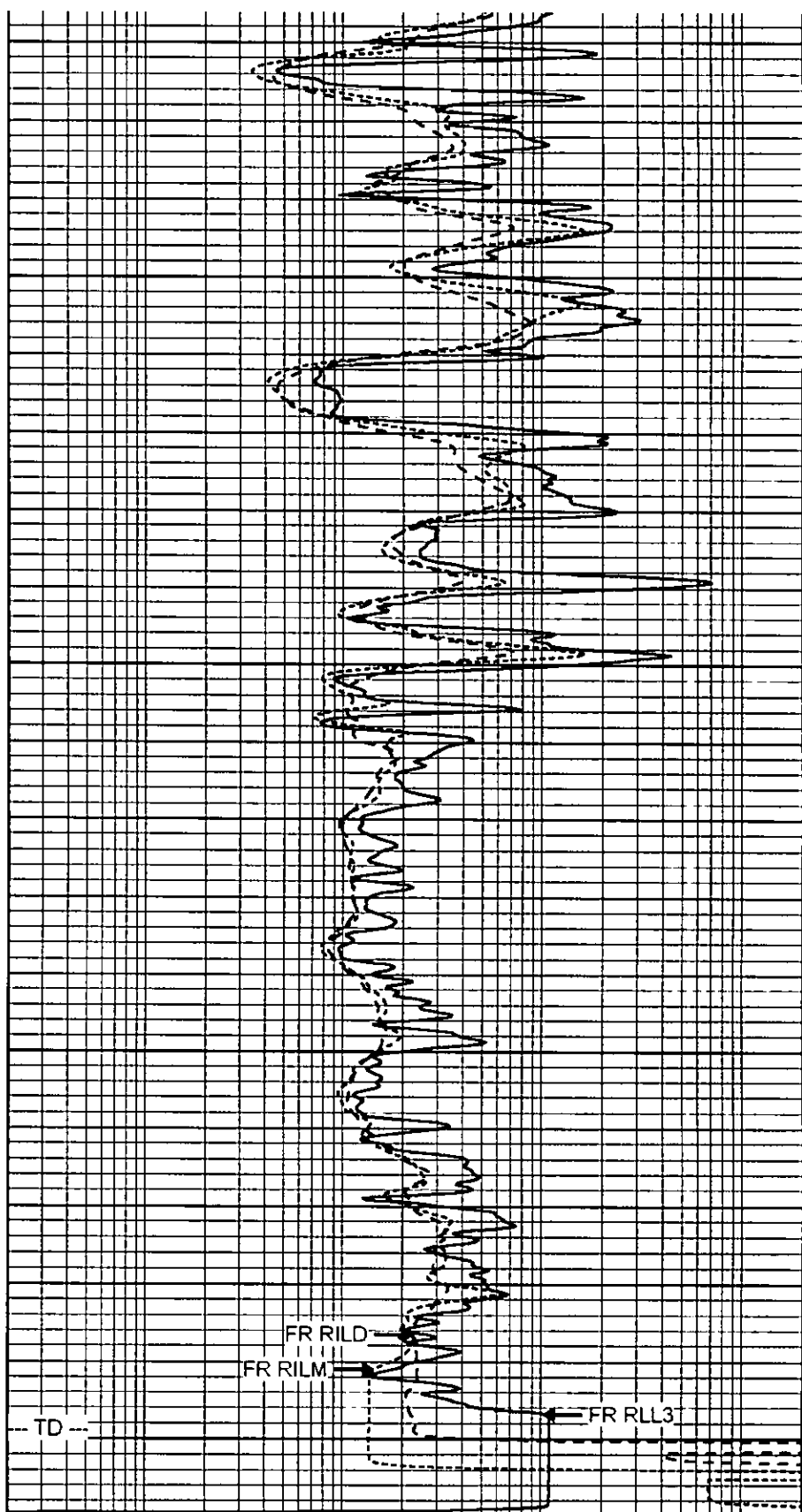
3250





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



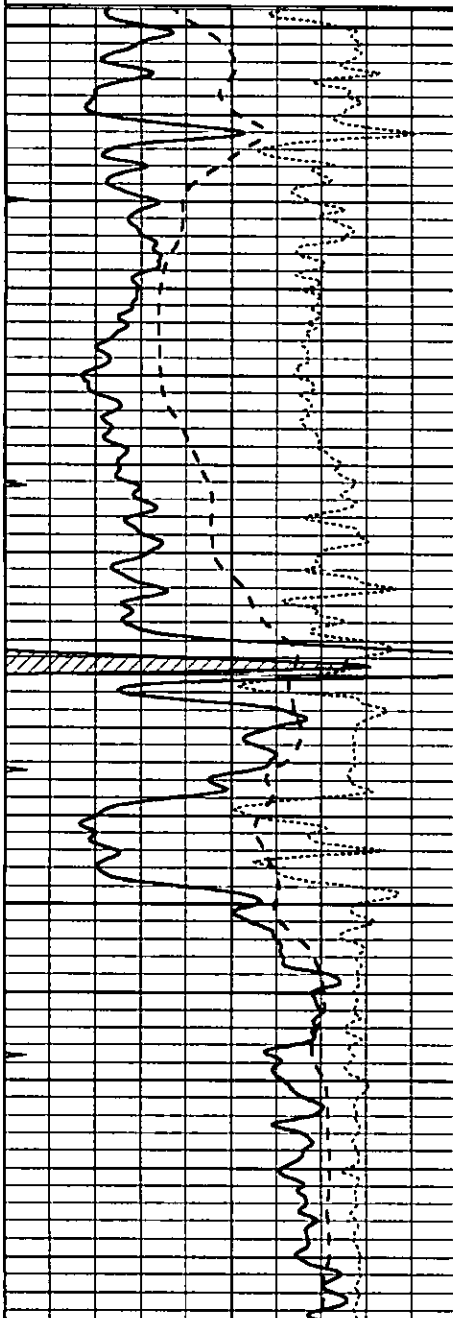
SUPERIOR  
Hays,  
Kansas

# 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

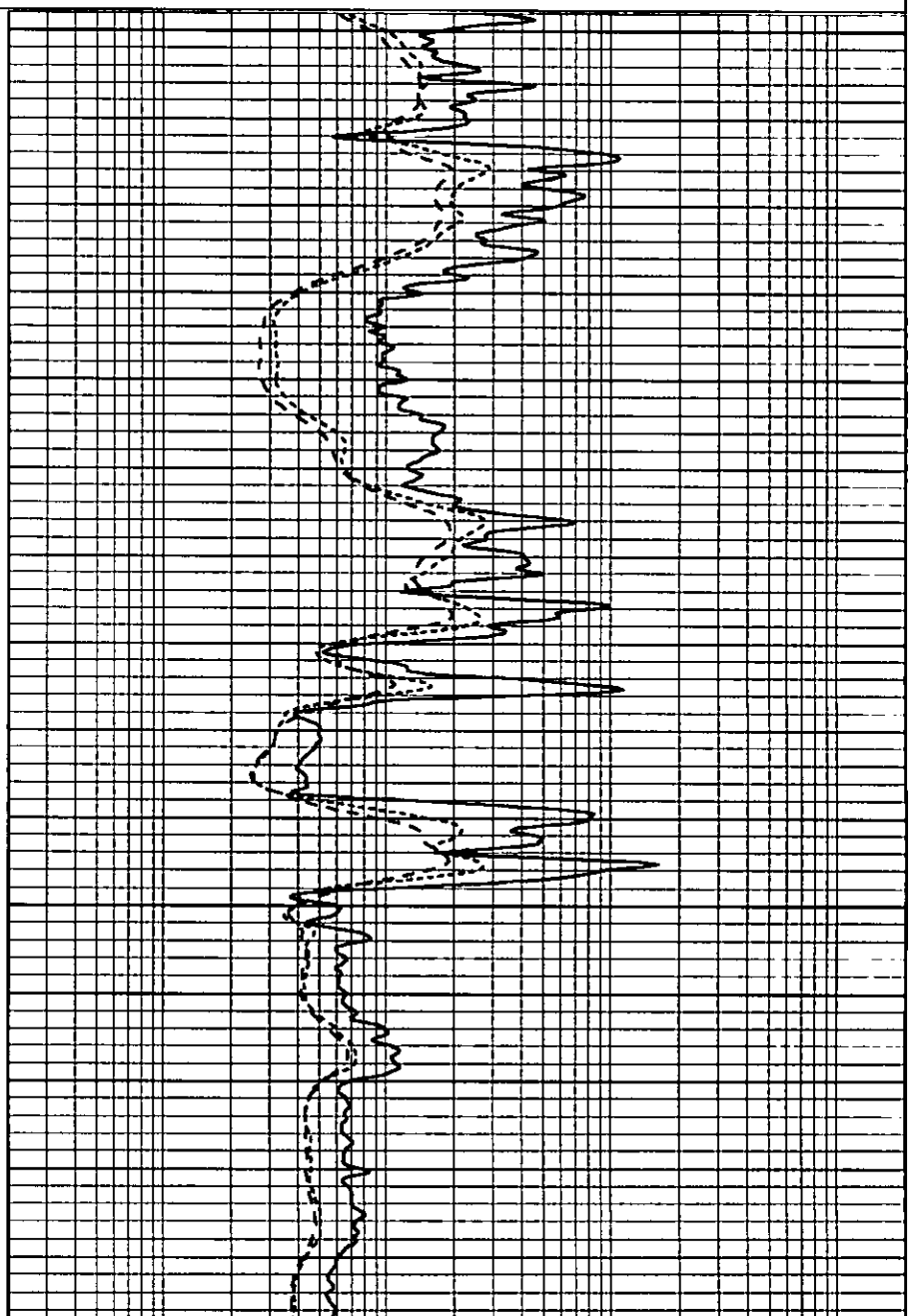
0.2	RLL3 (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

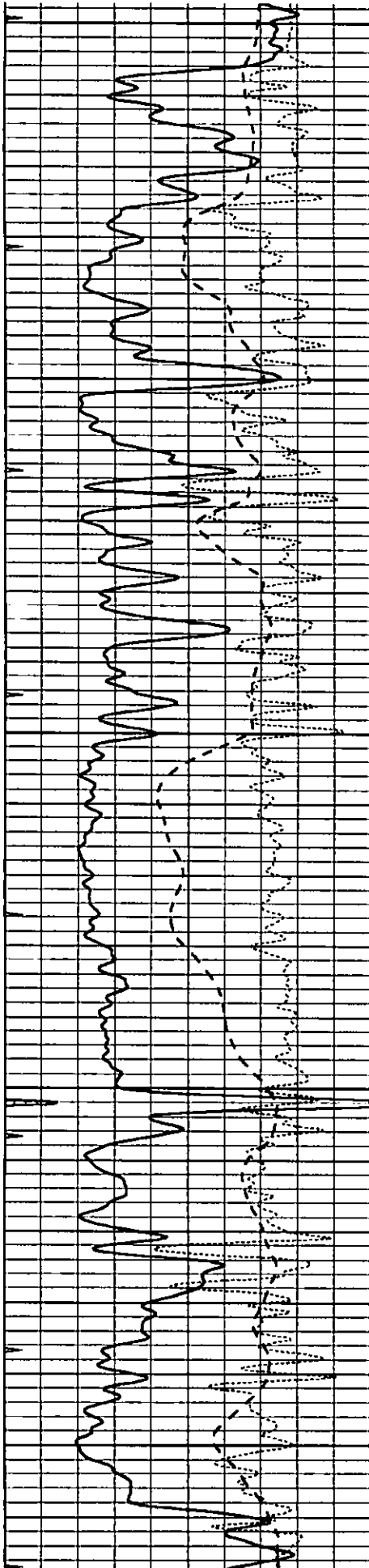


2950

3000

3050





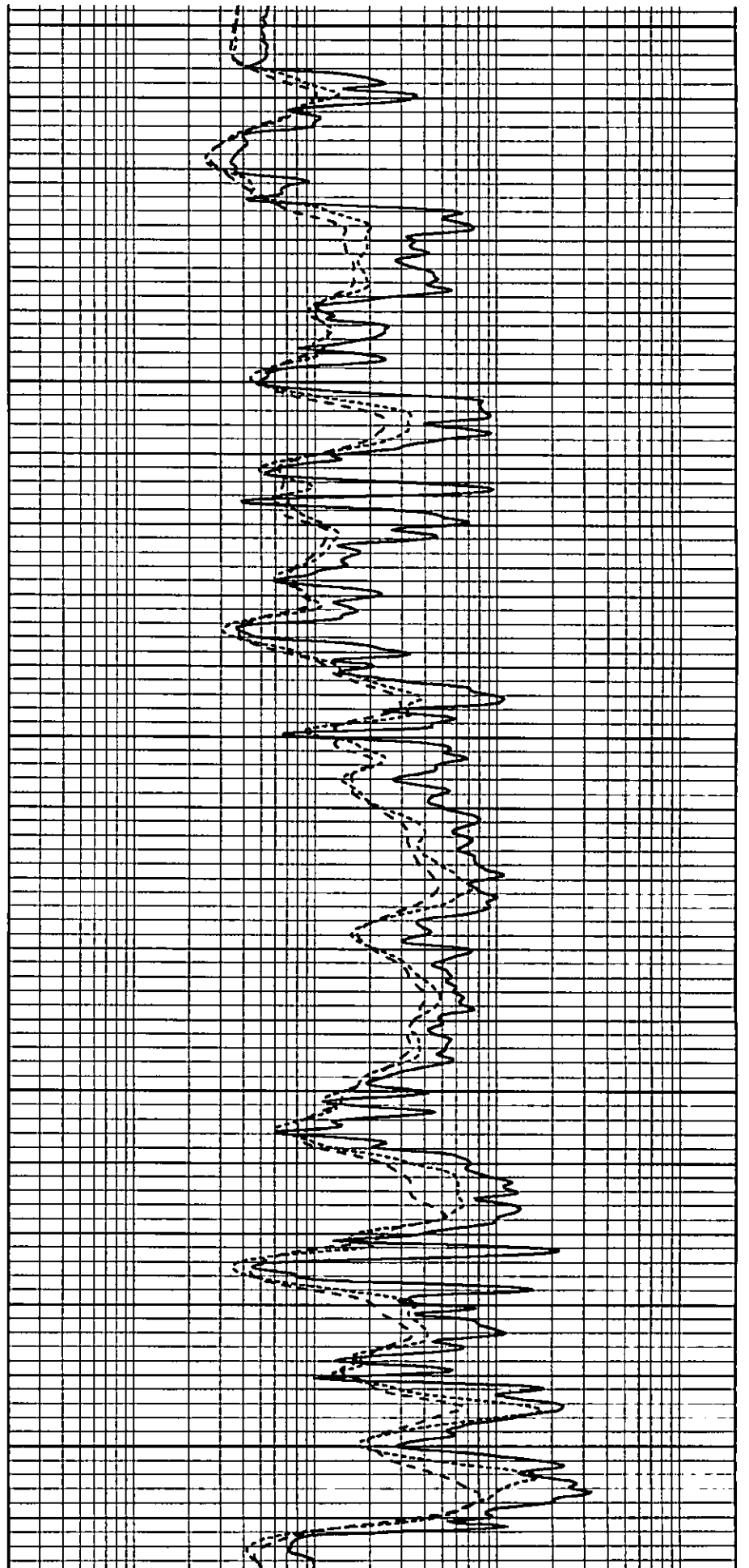
3100

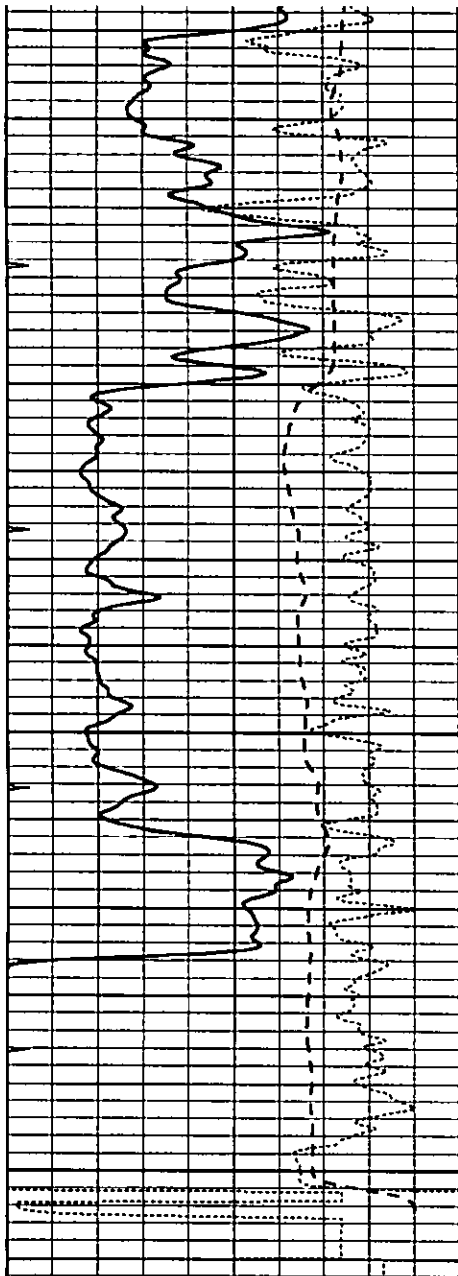
3150

3200

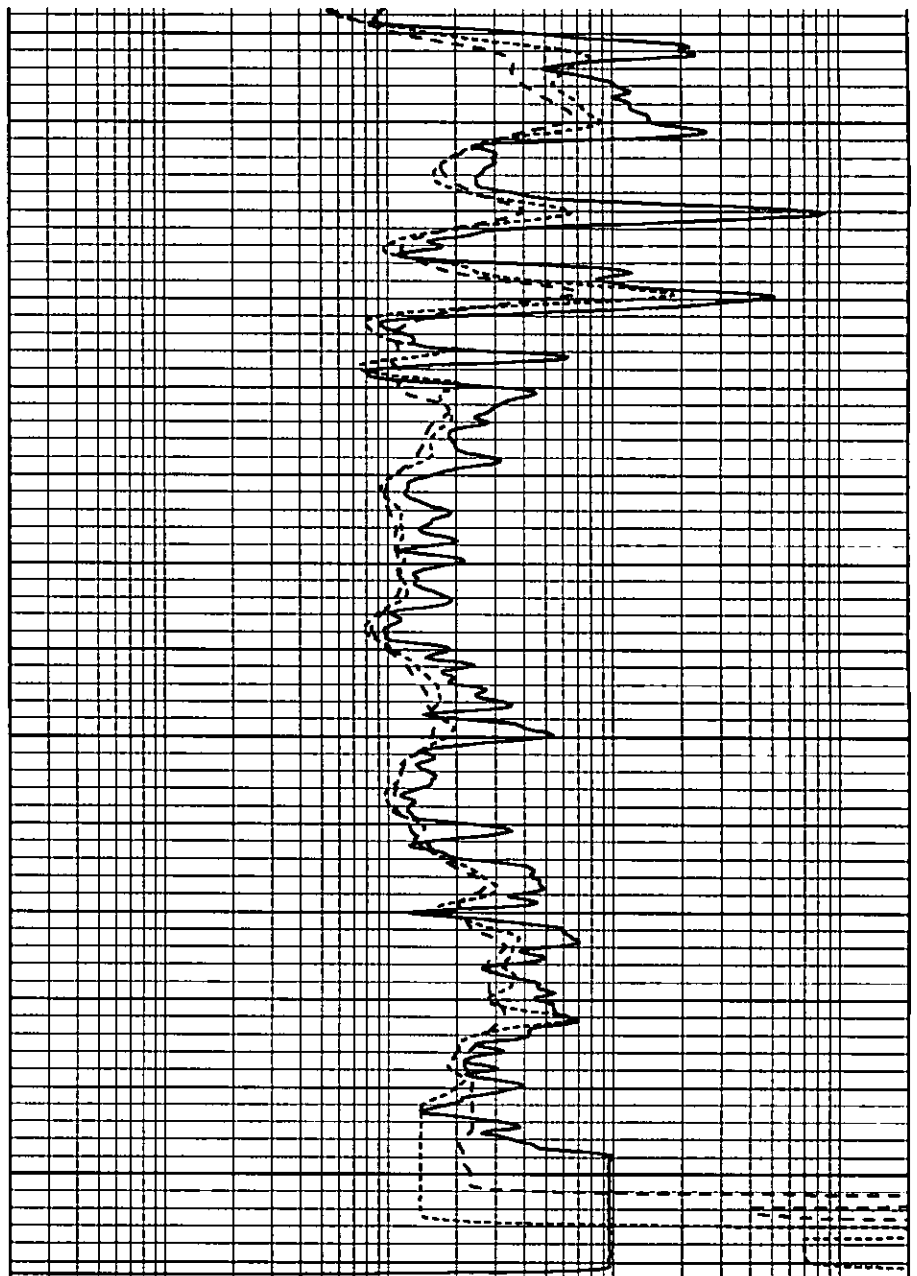
3250

3300





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

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

Date	12-13-11	
Run Number	TWO	
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 >>>

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.

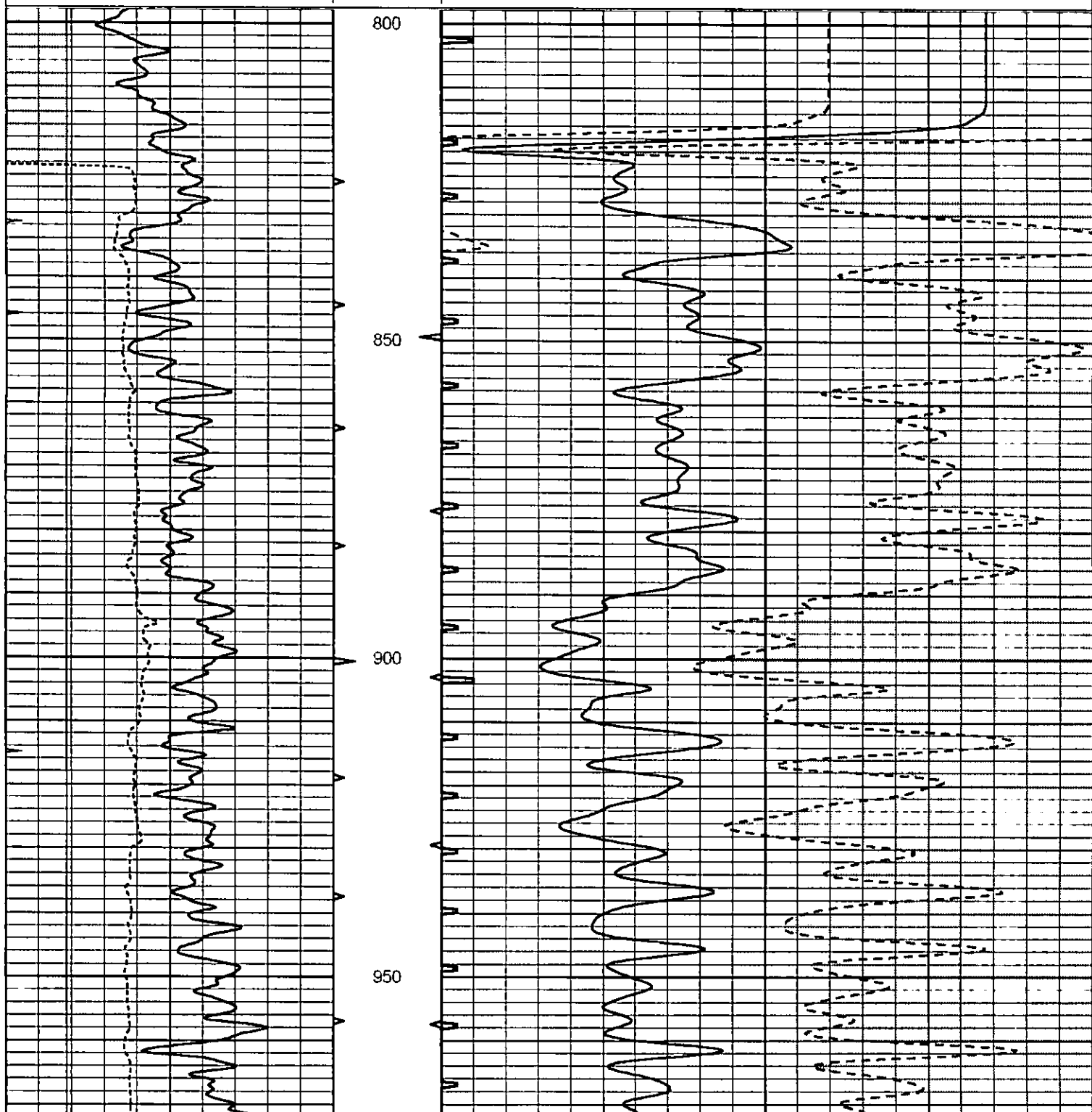


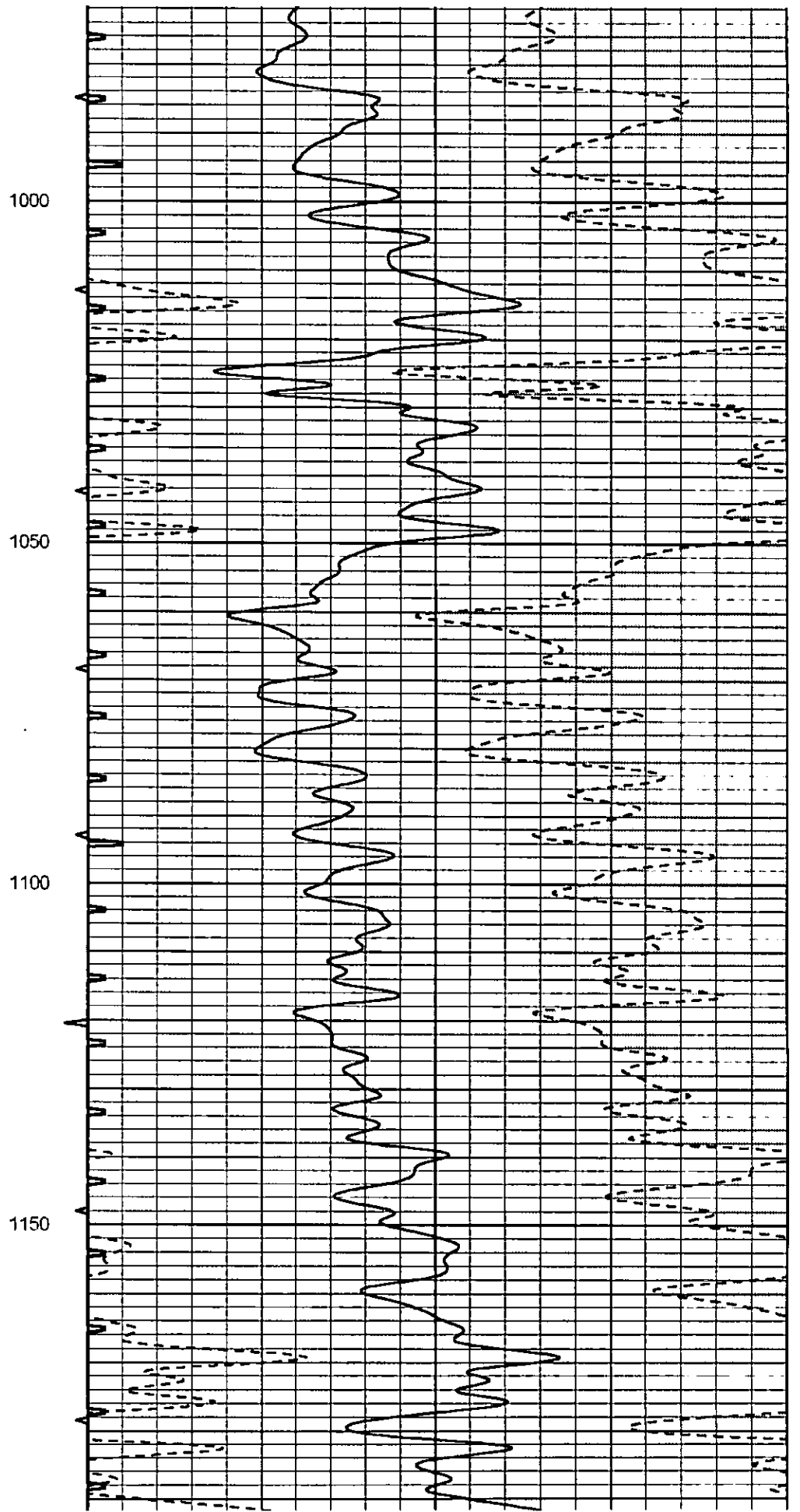
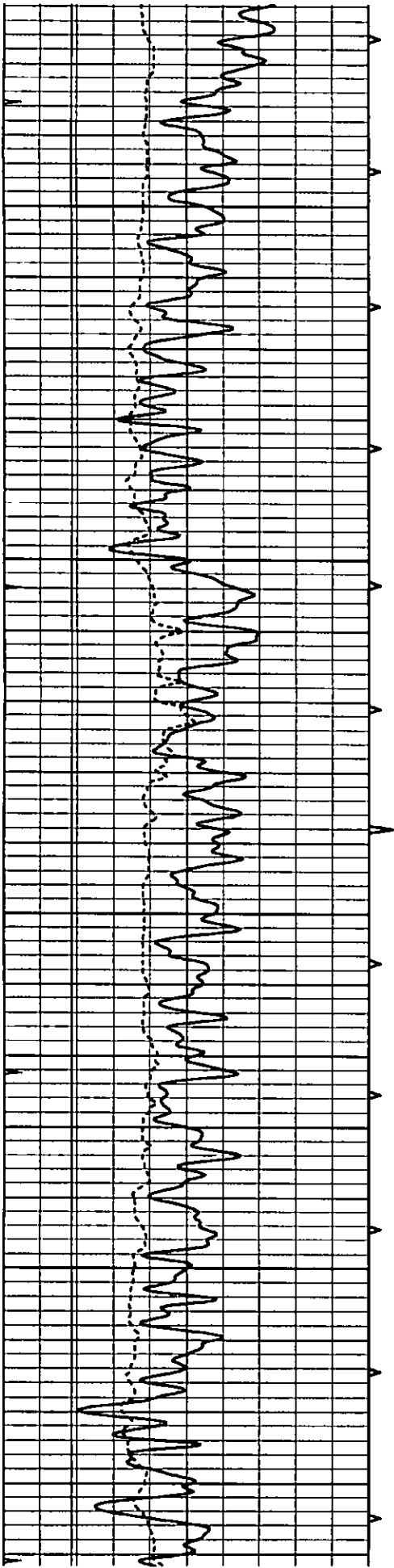
MAIN SECTION

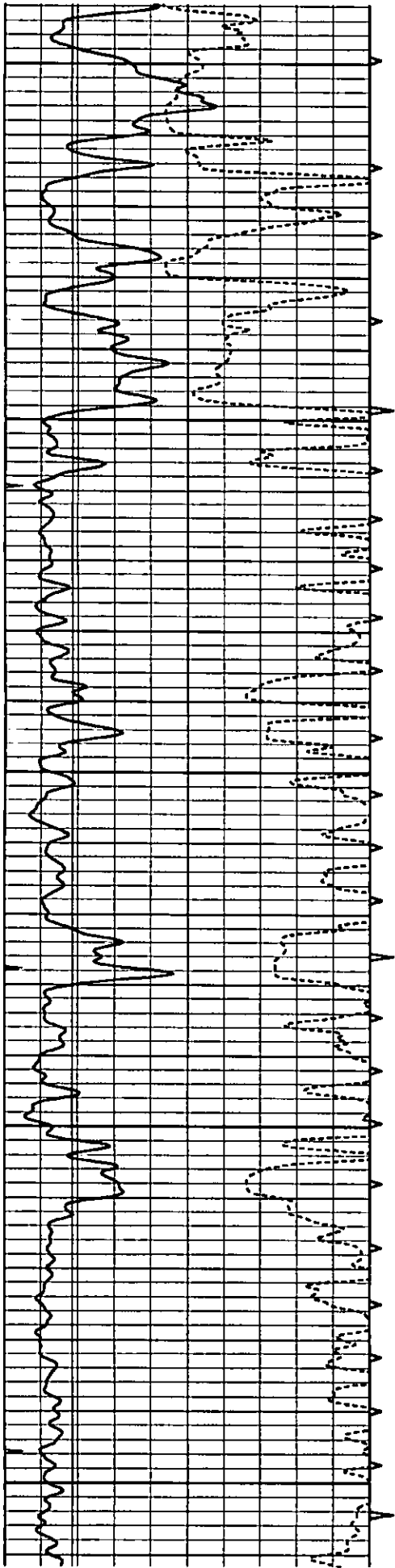


Database File: 001214ddn.db  
 Dataset Pathname: pass5.1  
 Presentation Format: slt  
 Dataset Creation: Tue Dec 13 18:36:50 2011 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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







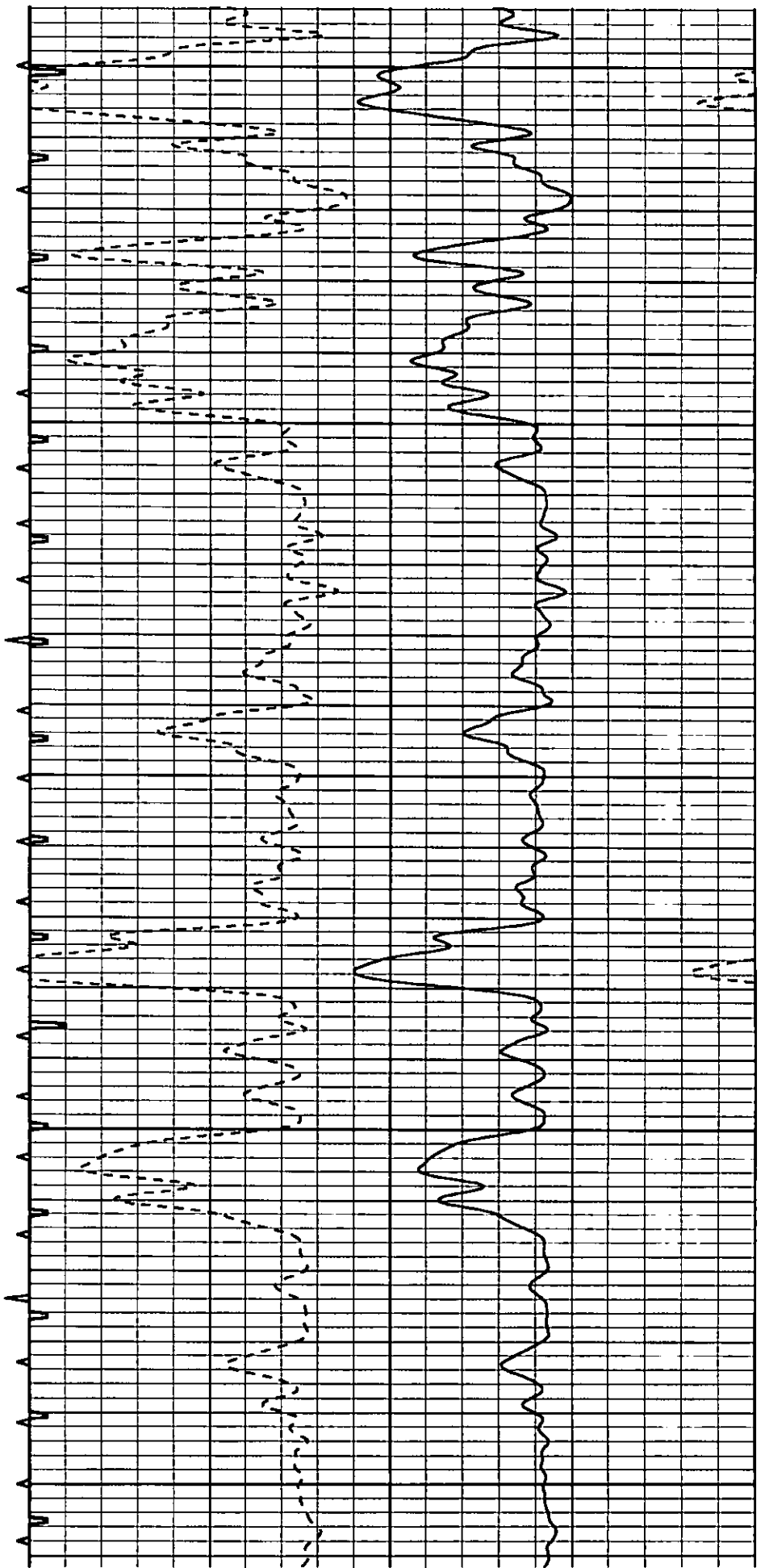
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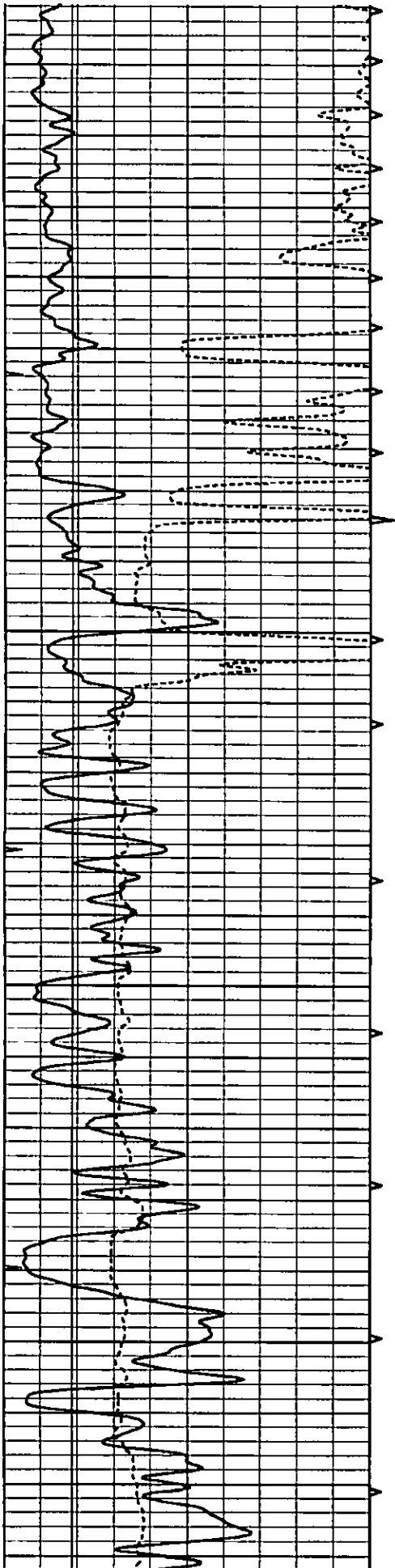
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1300

1350

1400



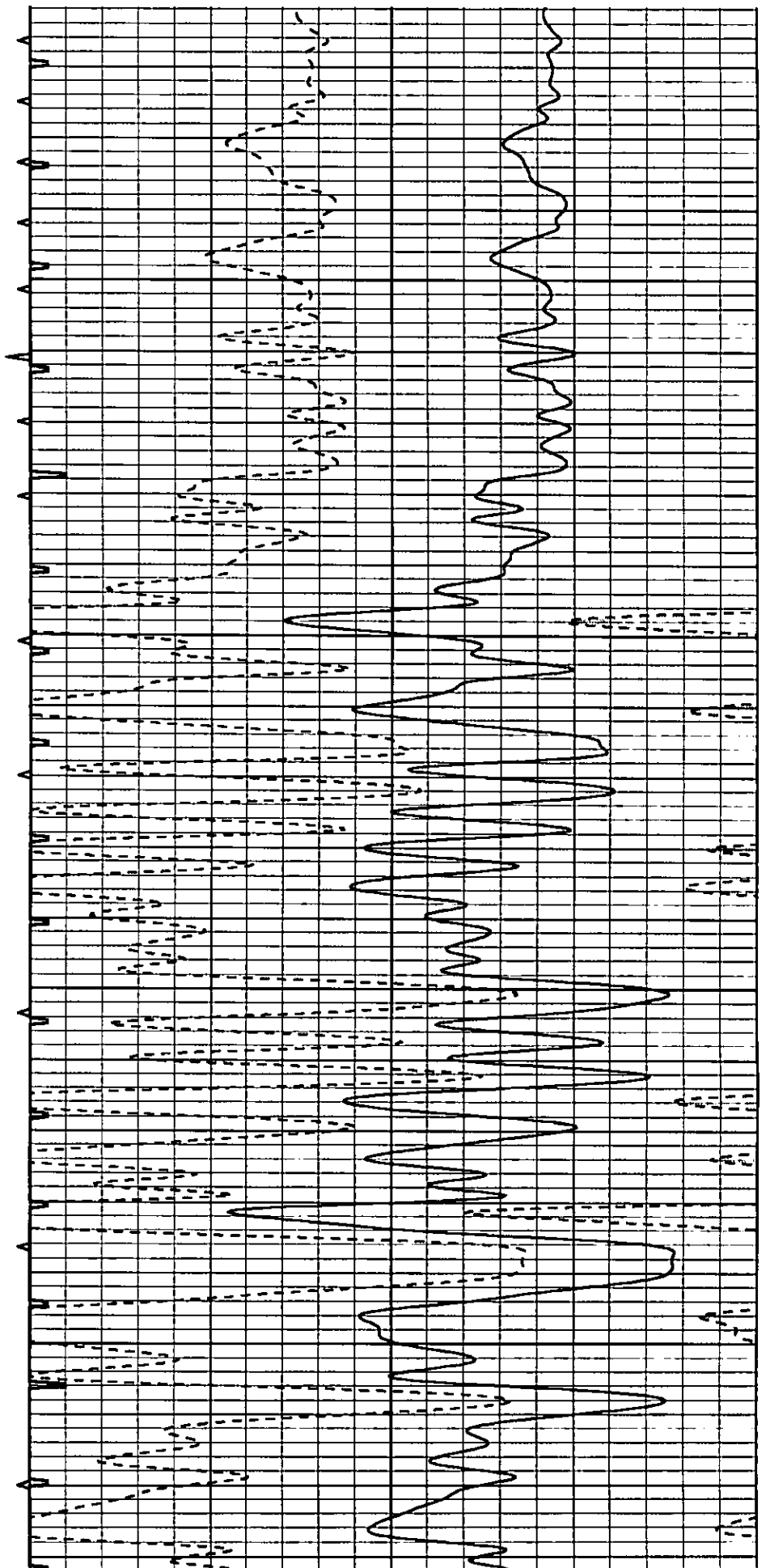


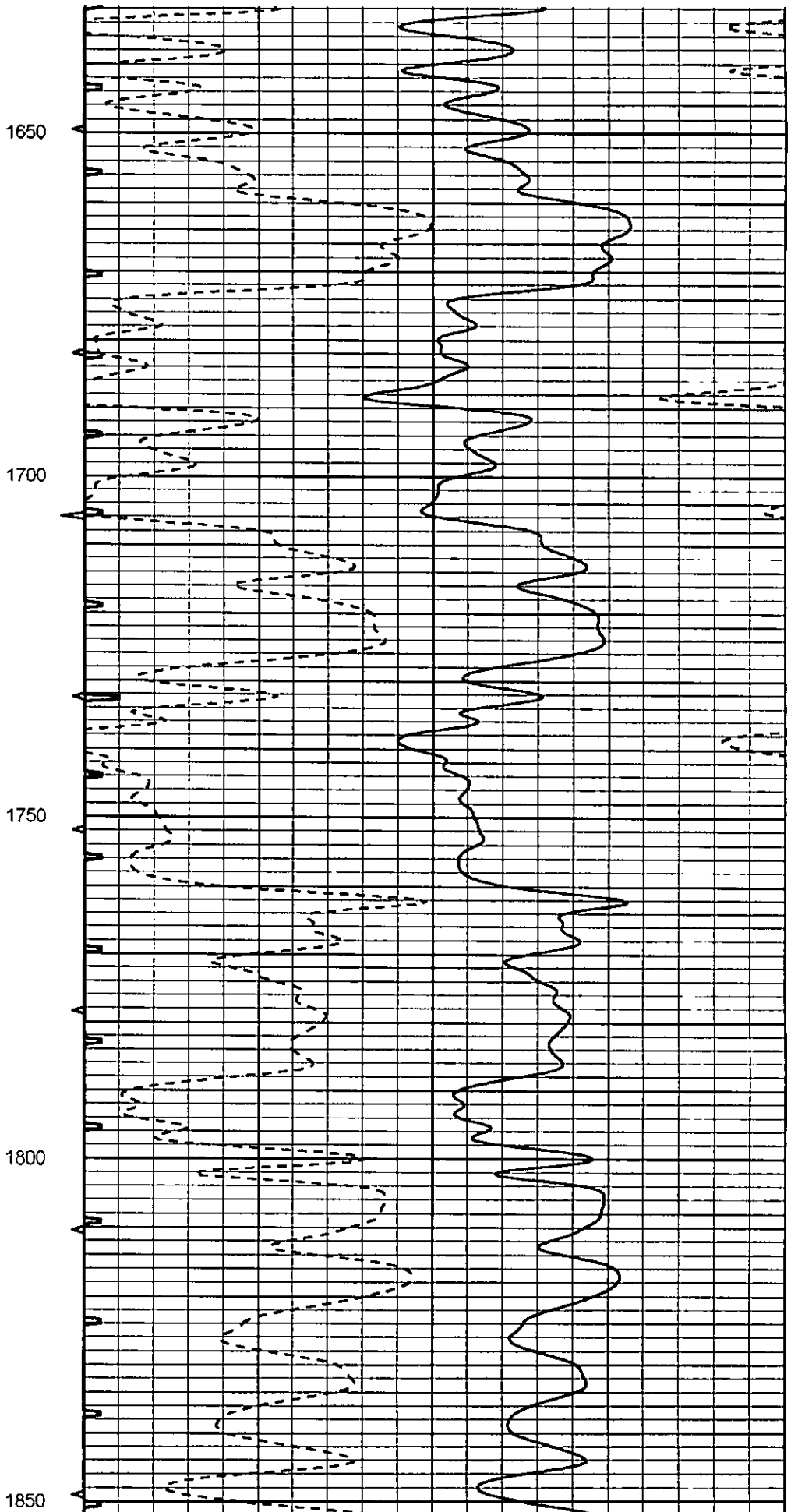
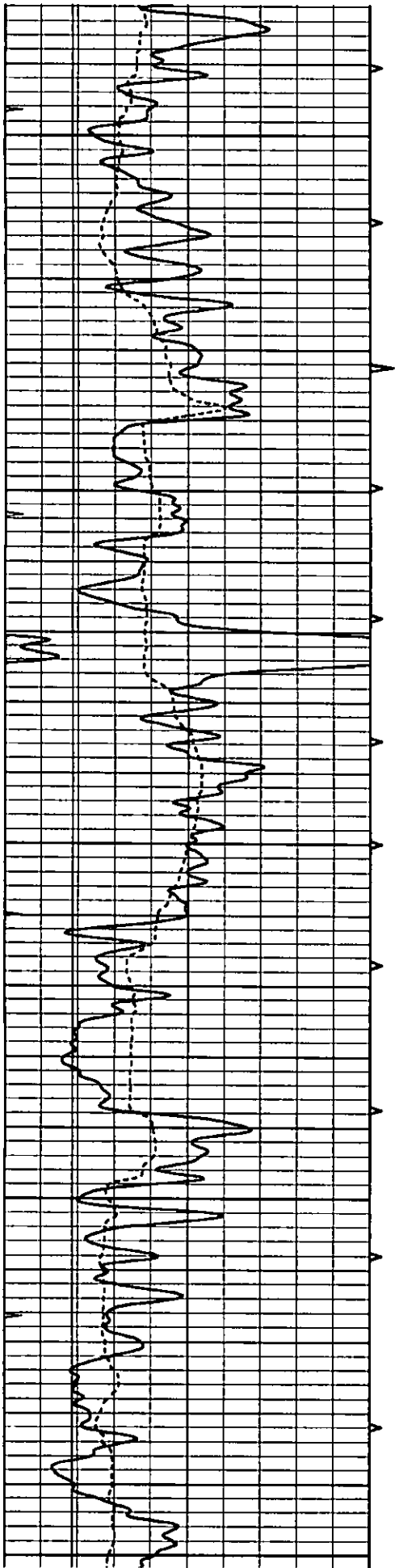
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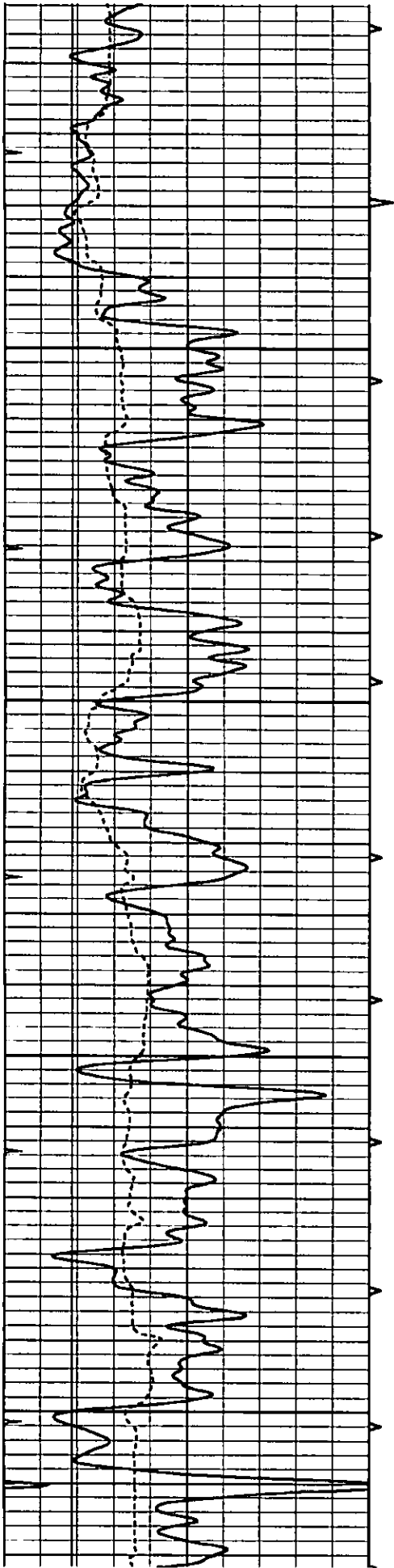
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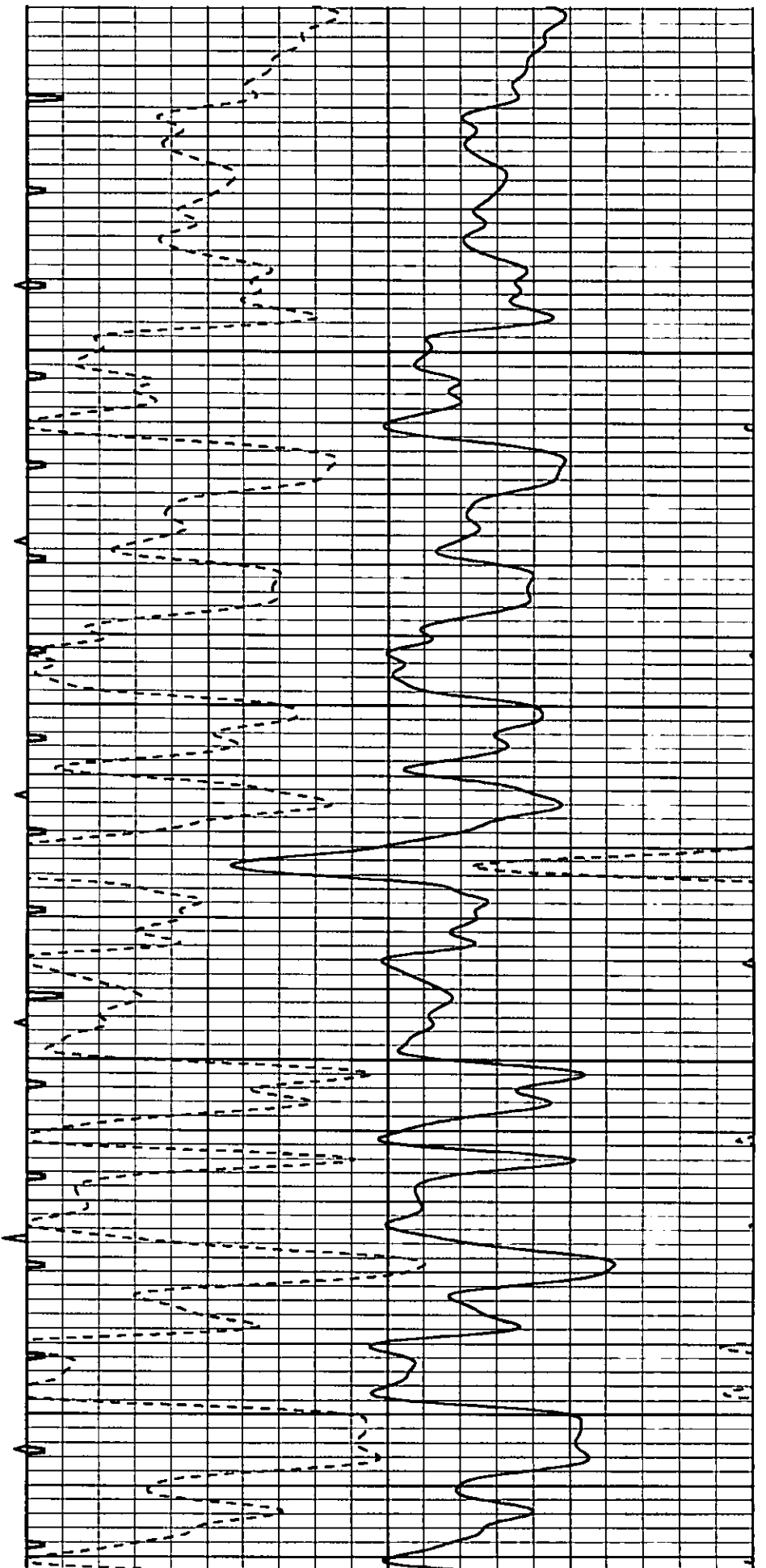


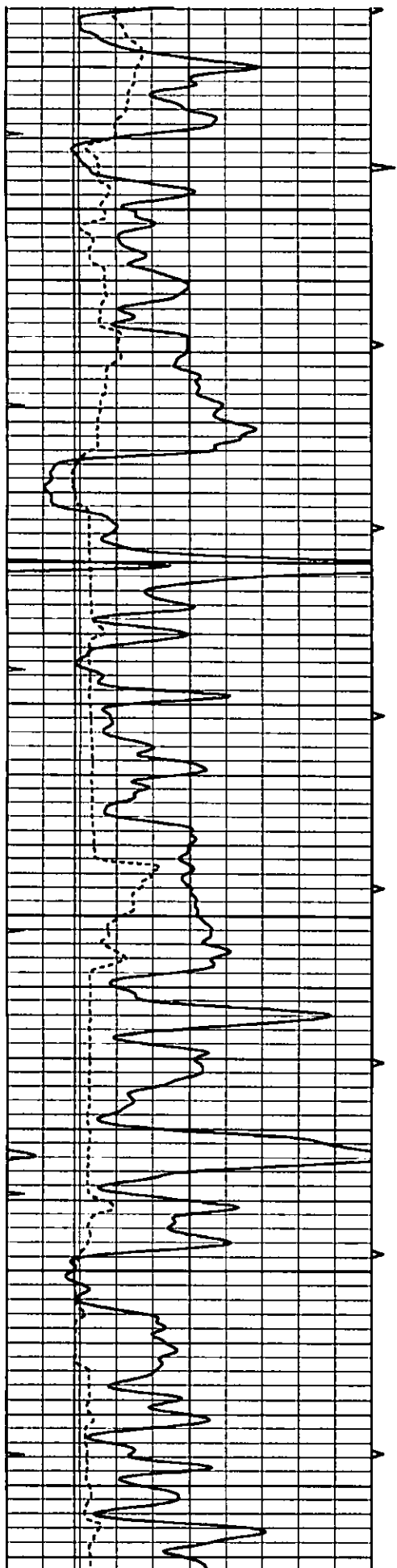
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2000

2050



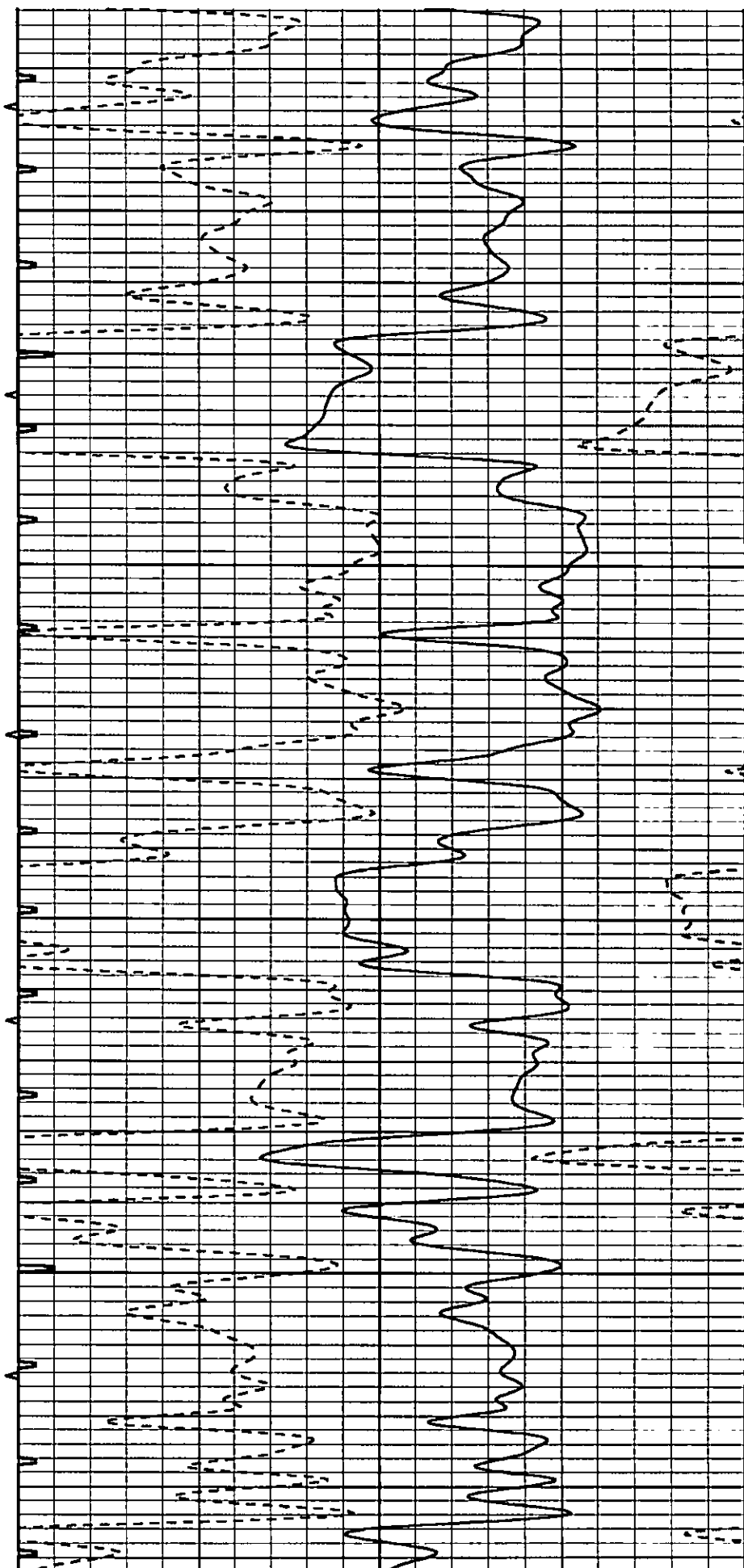


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2150

2200

2250

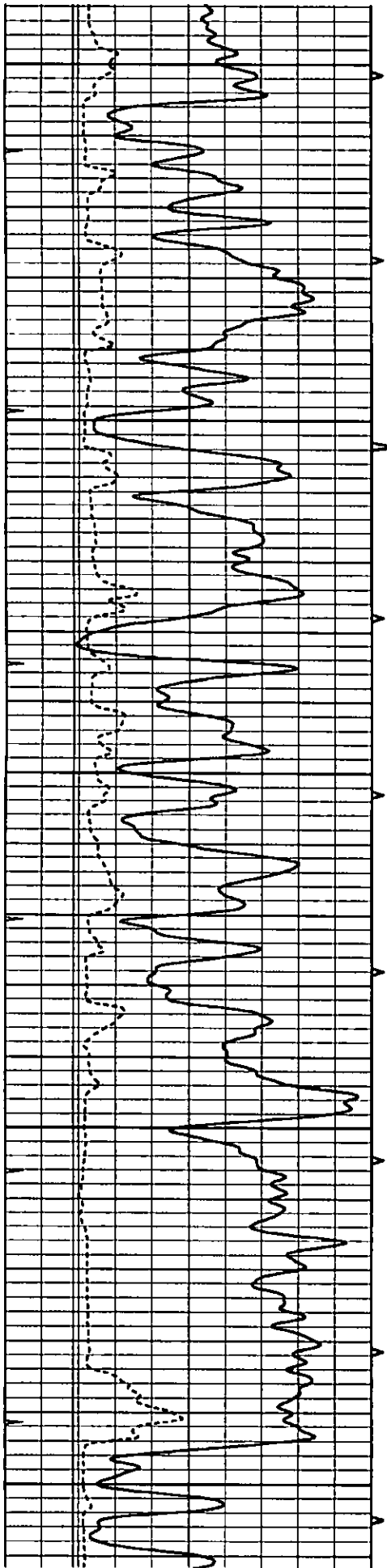


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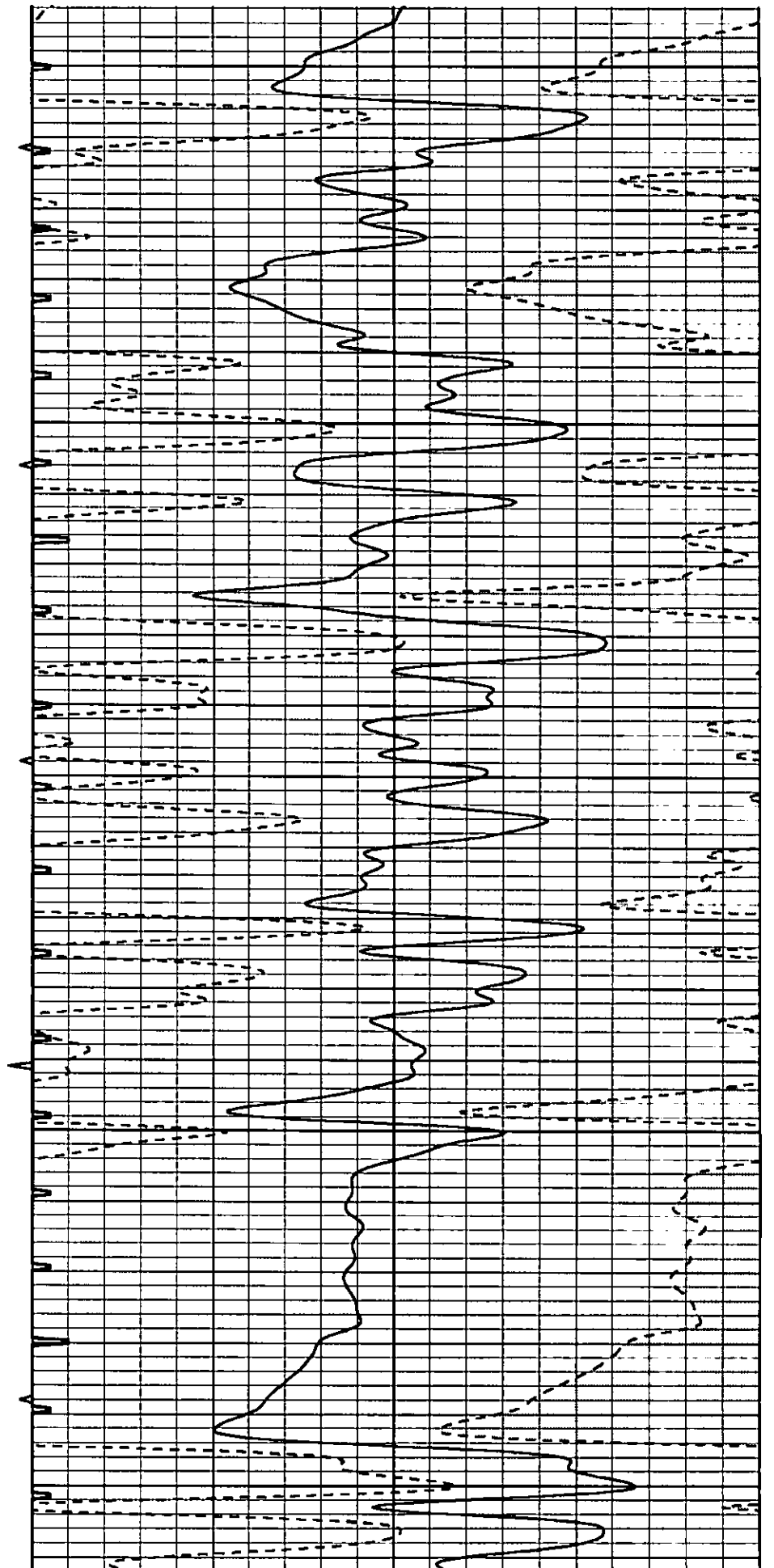
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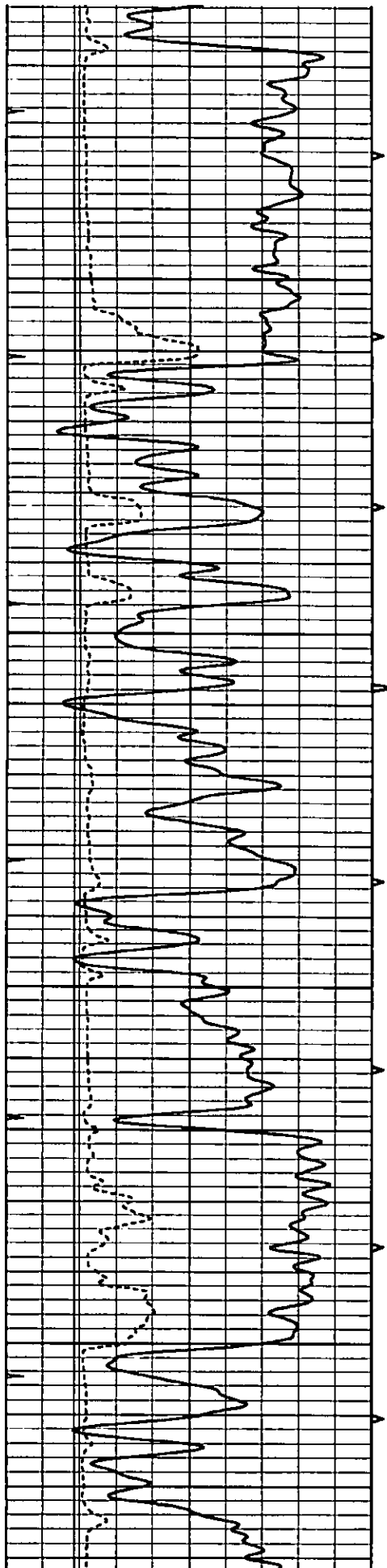
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2400  
2450  
2500





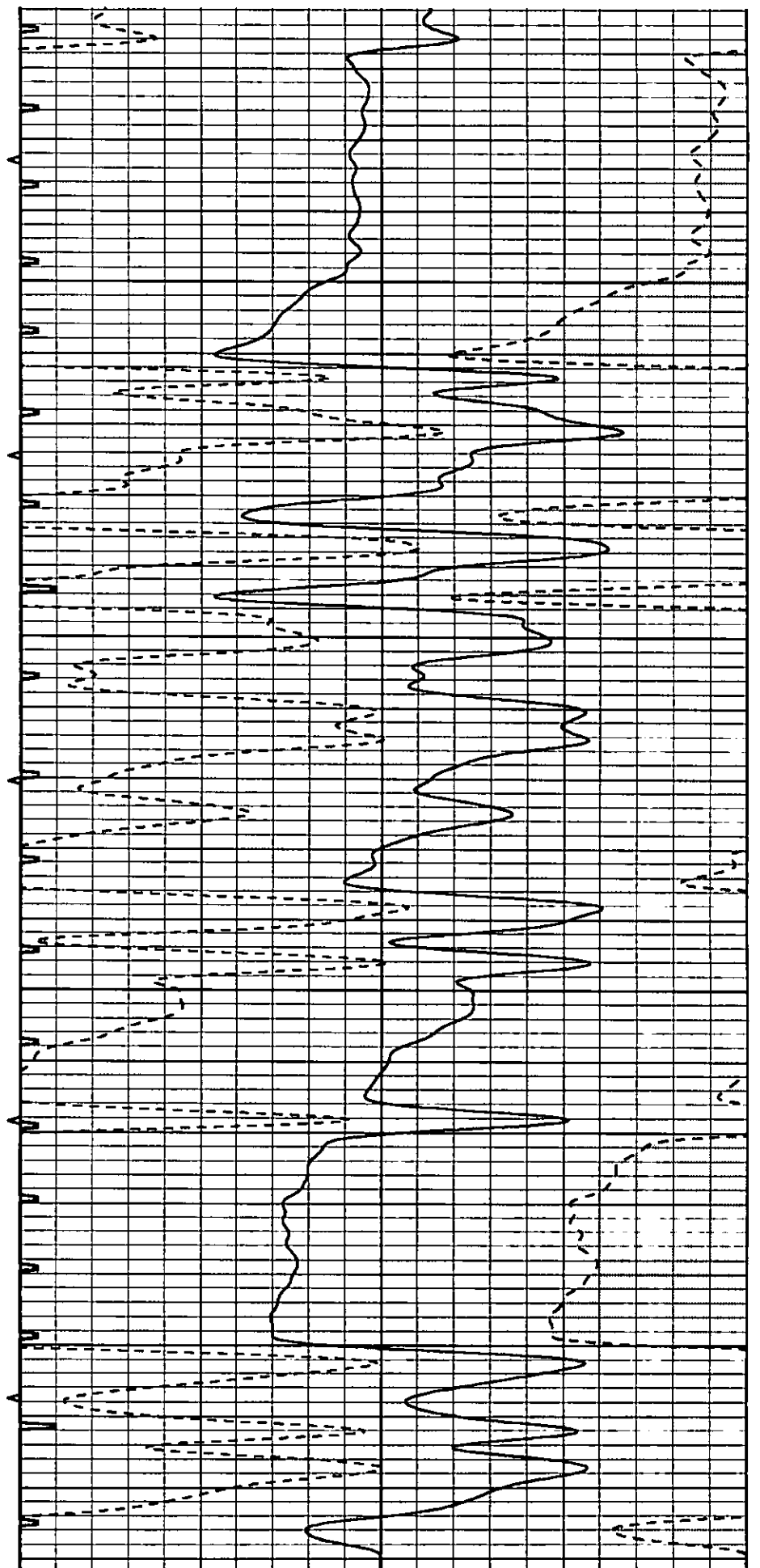


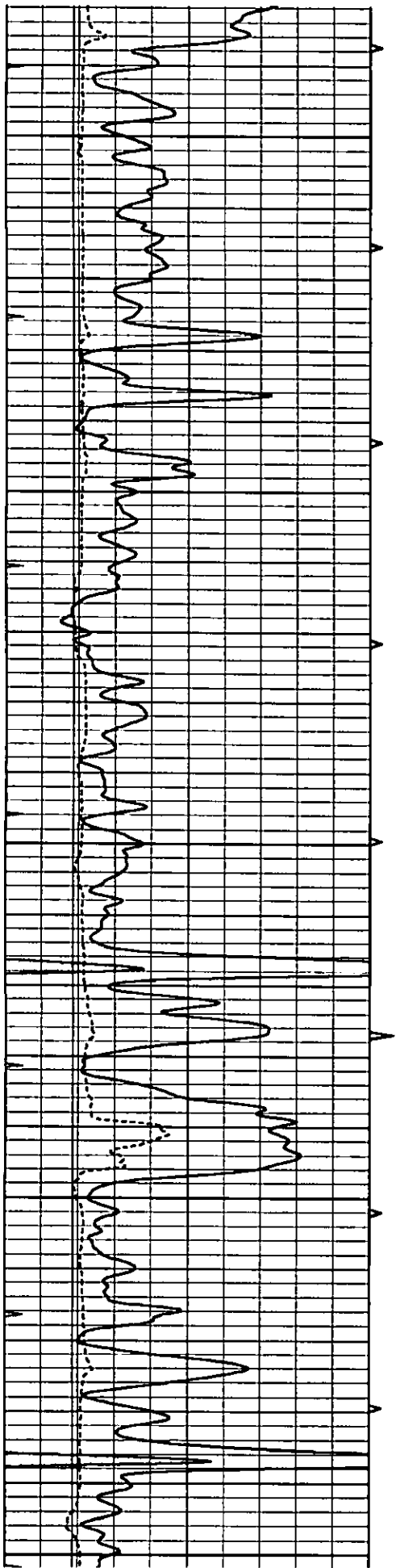
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2650

2700





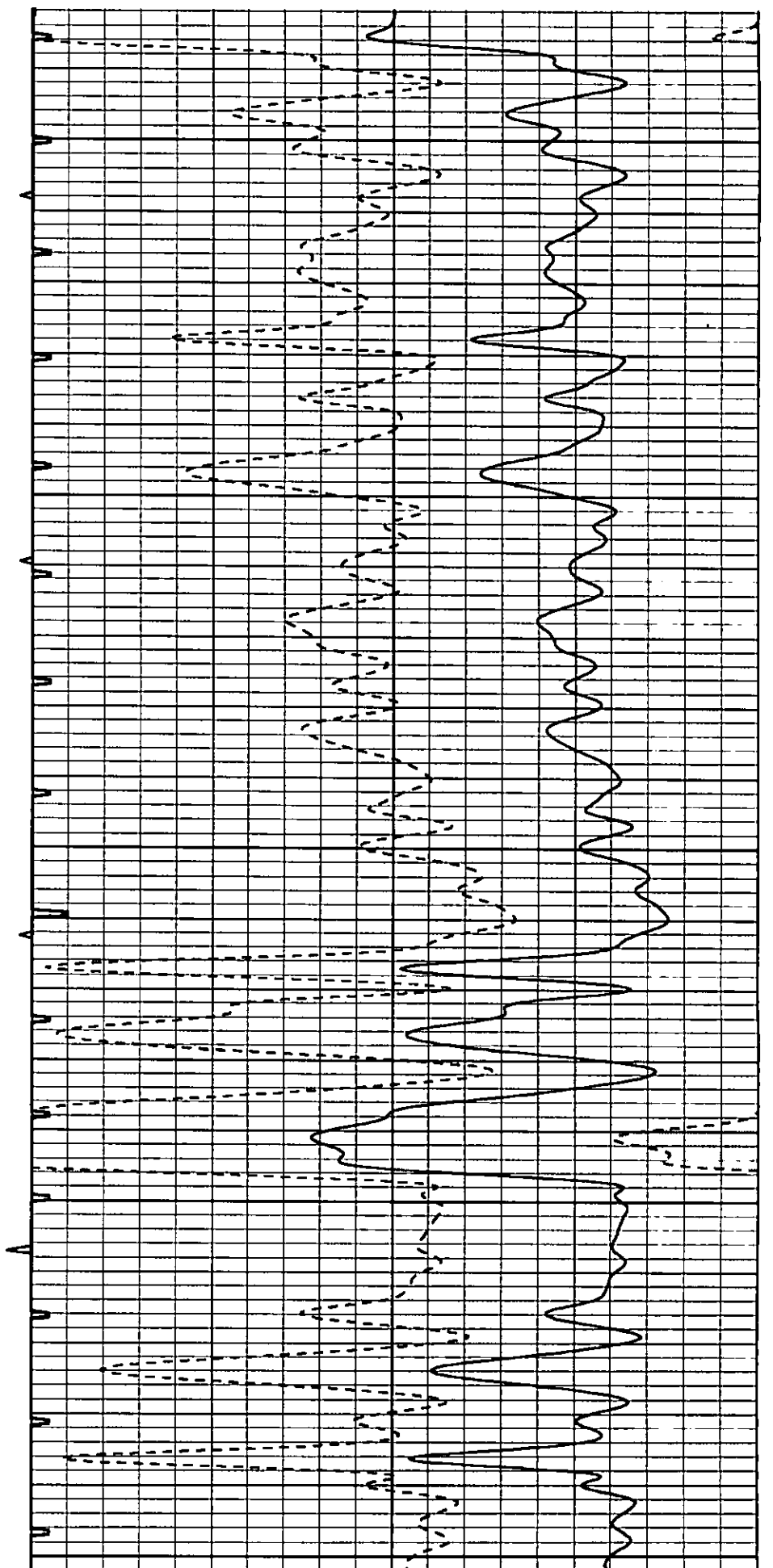
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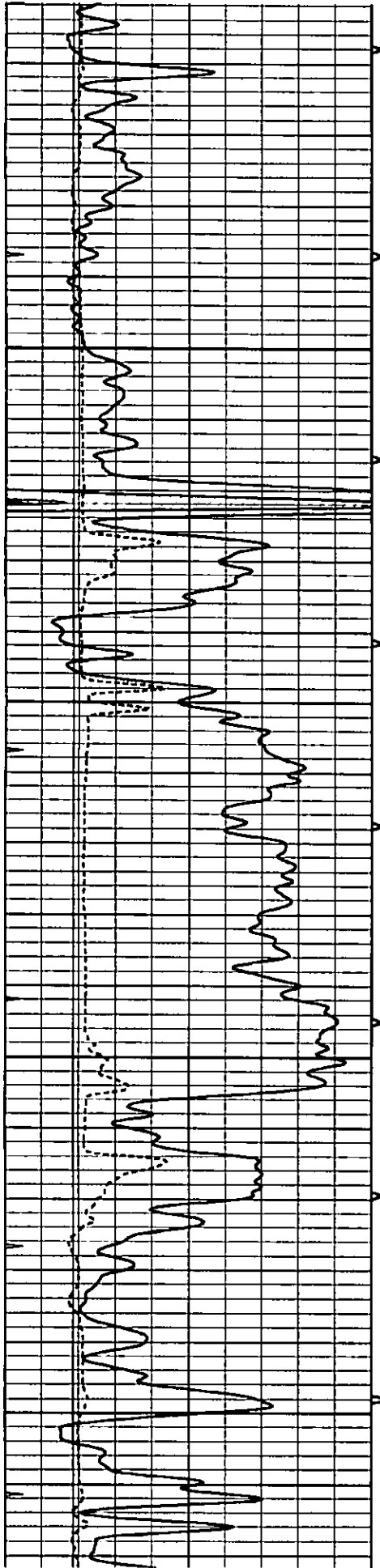
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2900

2950



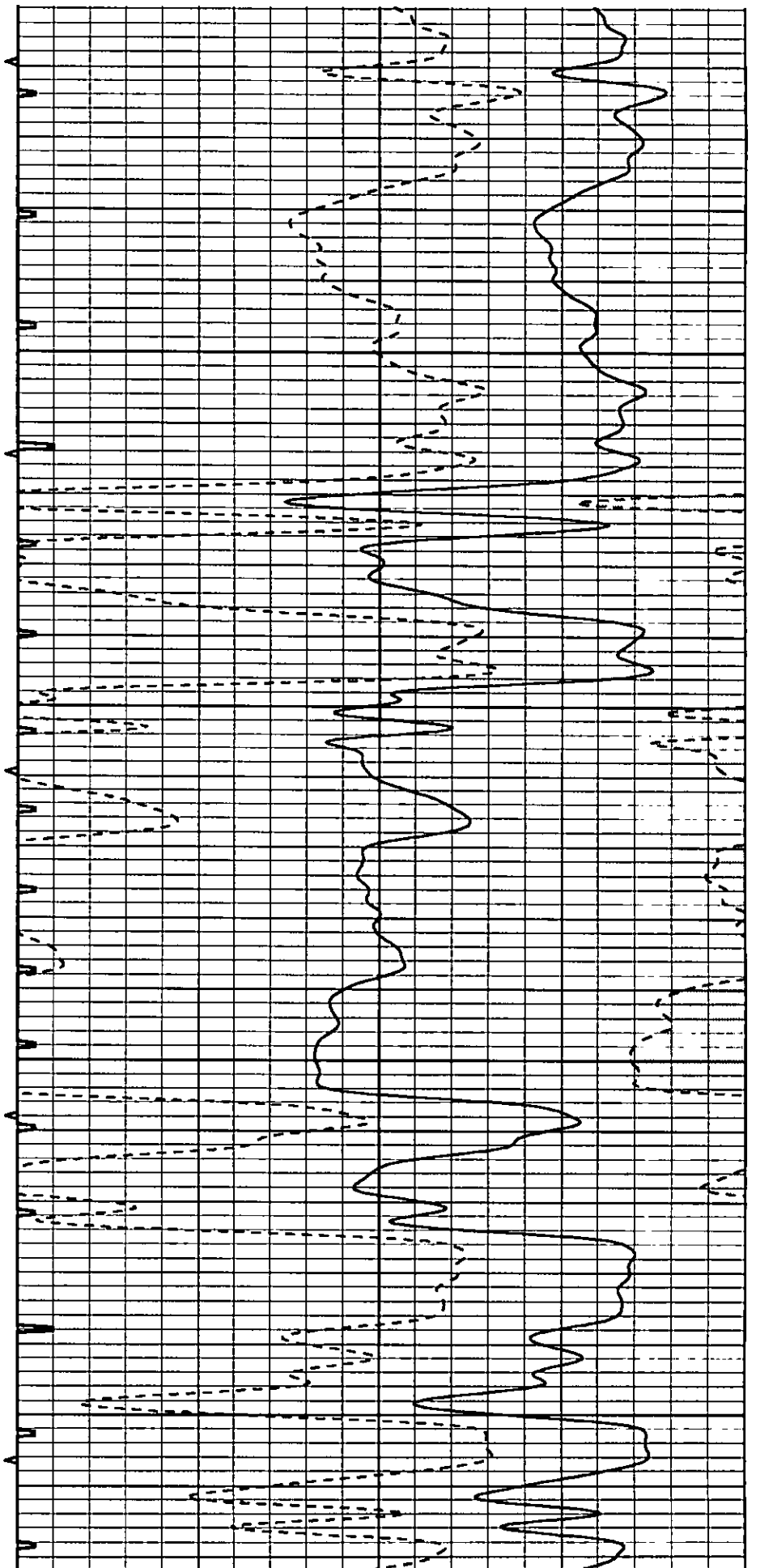


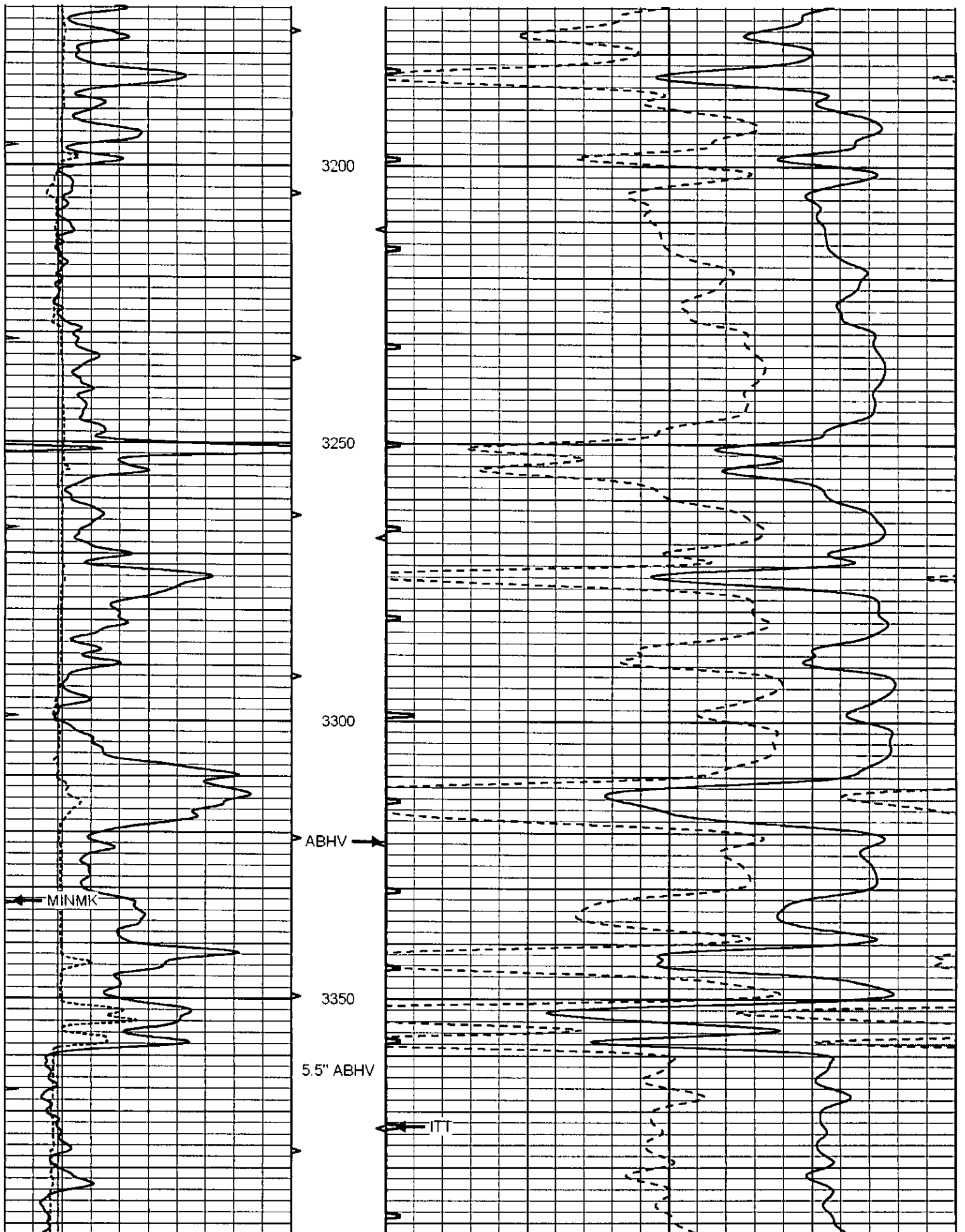
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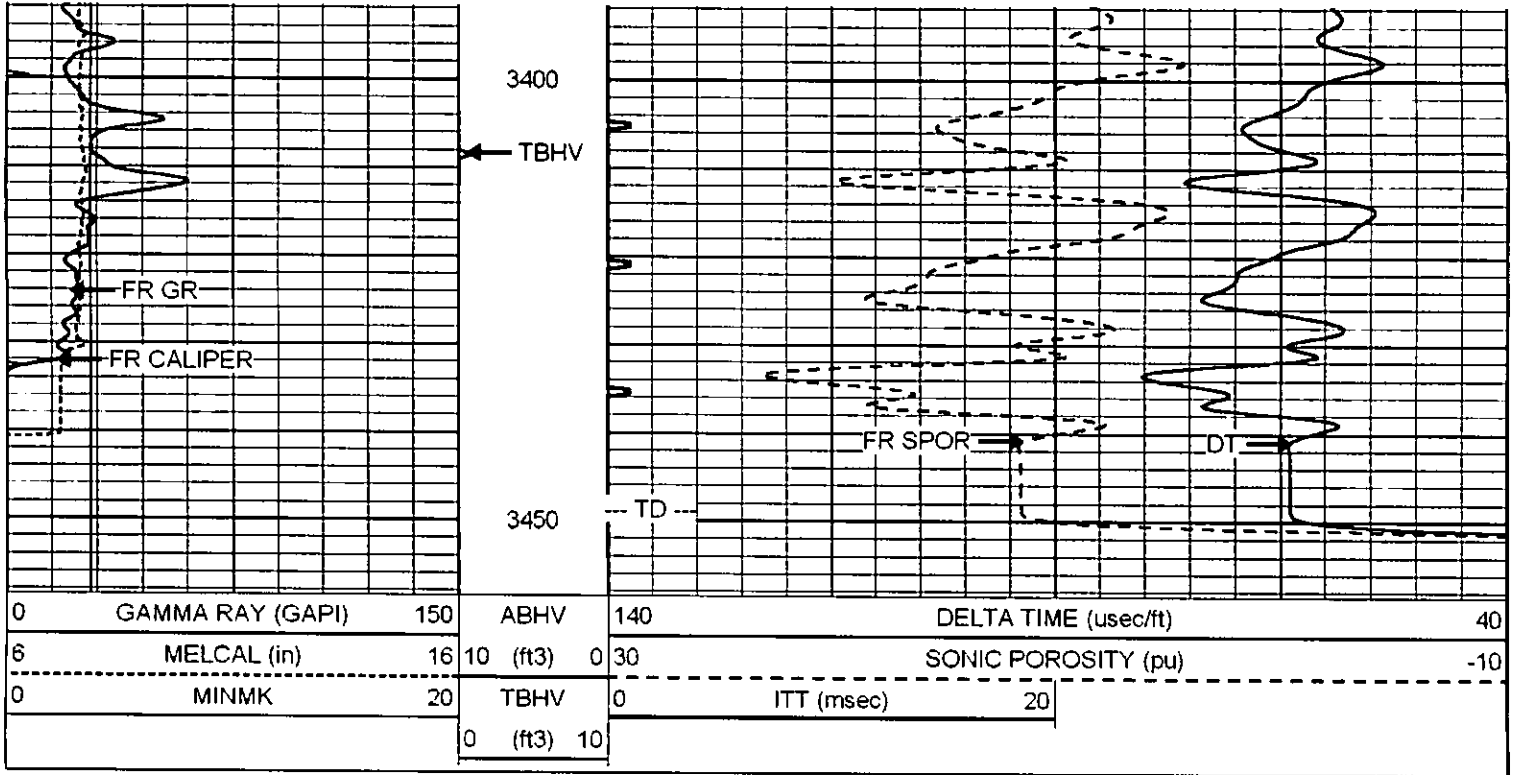
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3150





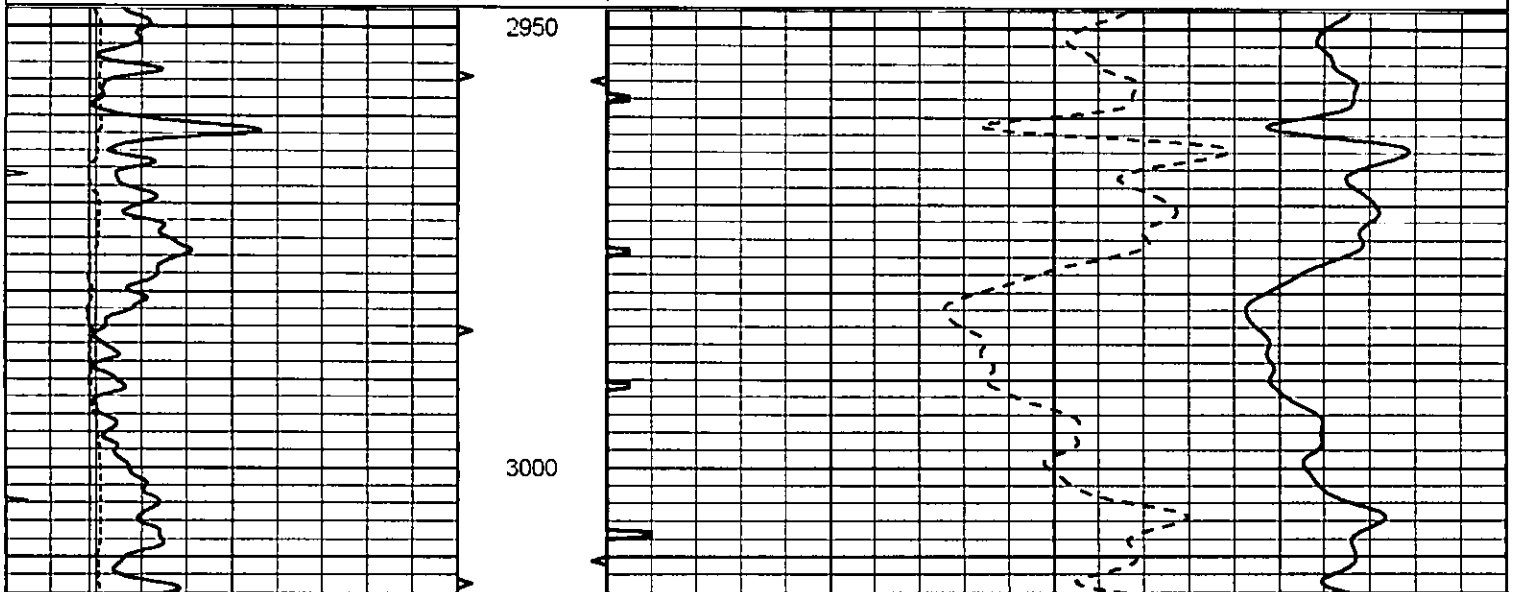


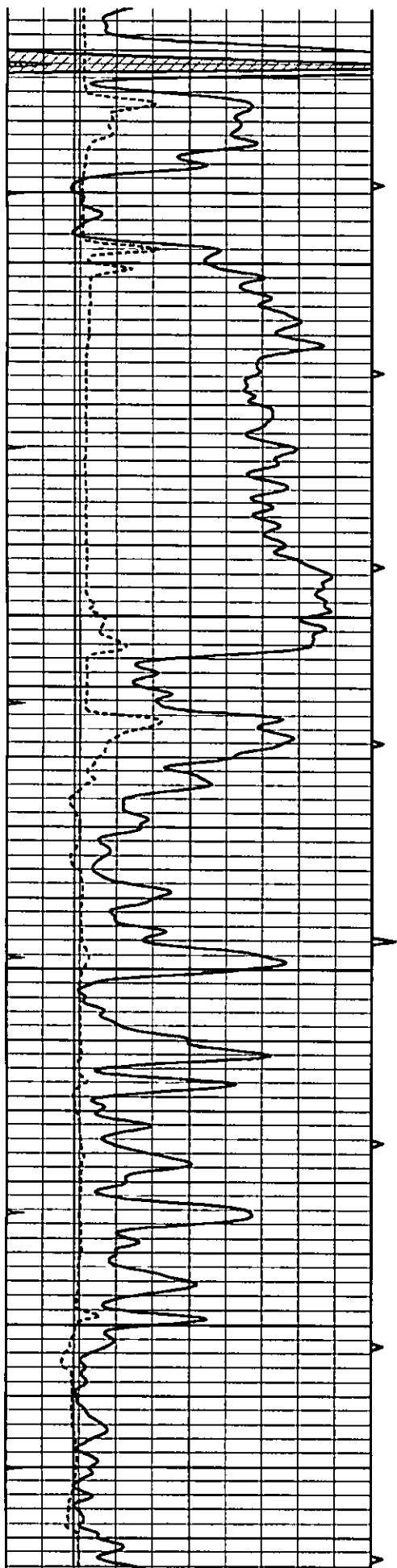
SUPERIOR  
Hays,  
Kansas

# 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		



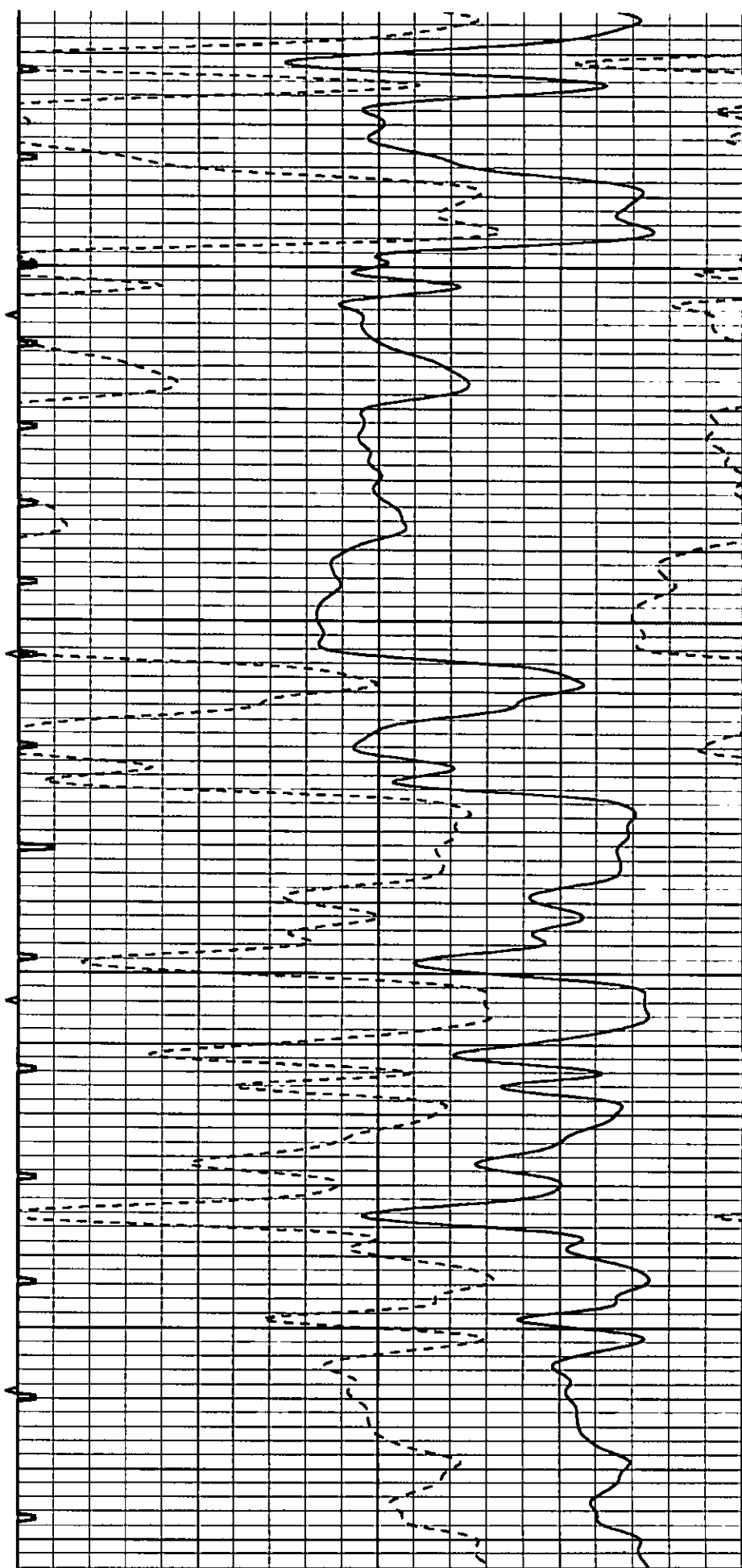


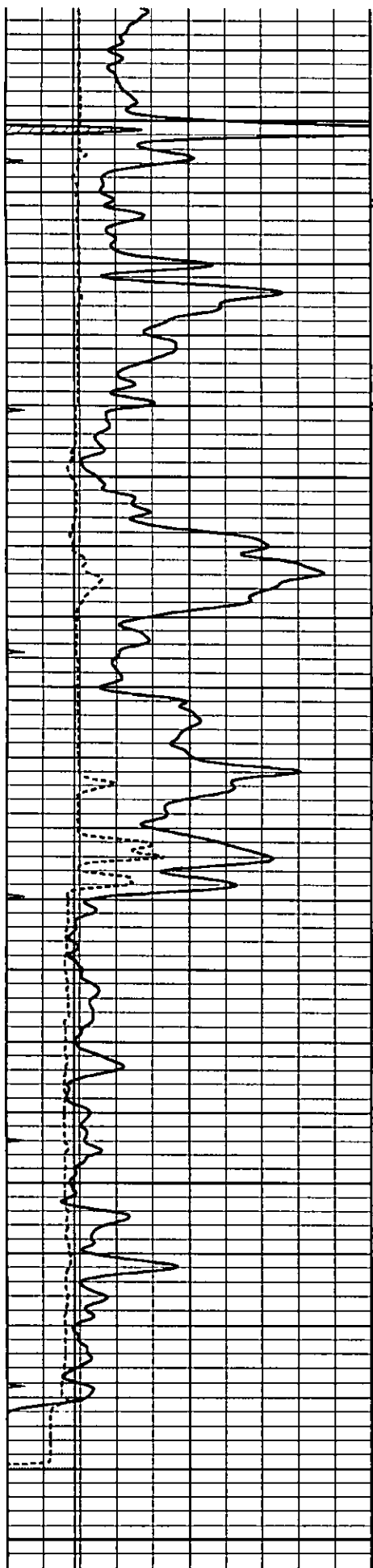
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3150

3200





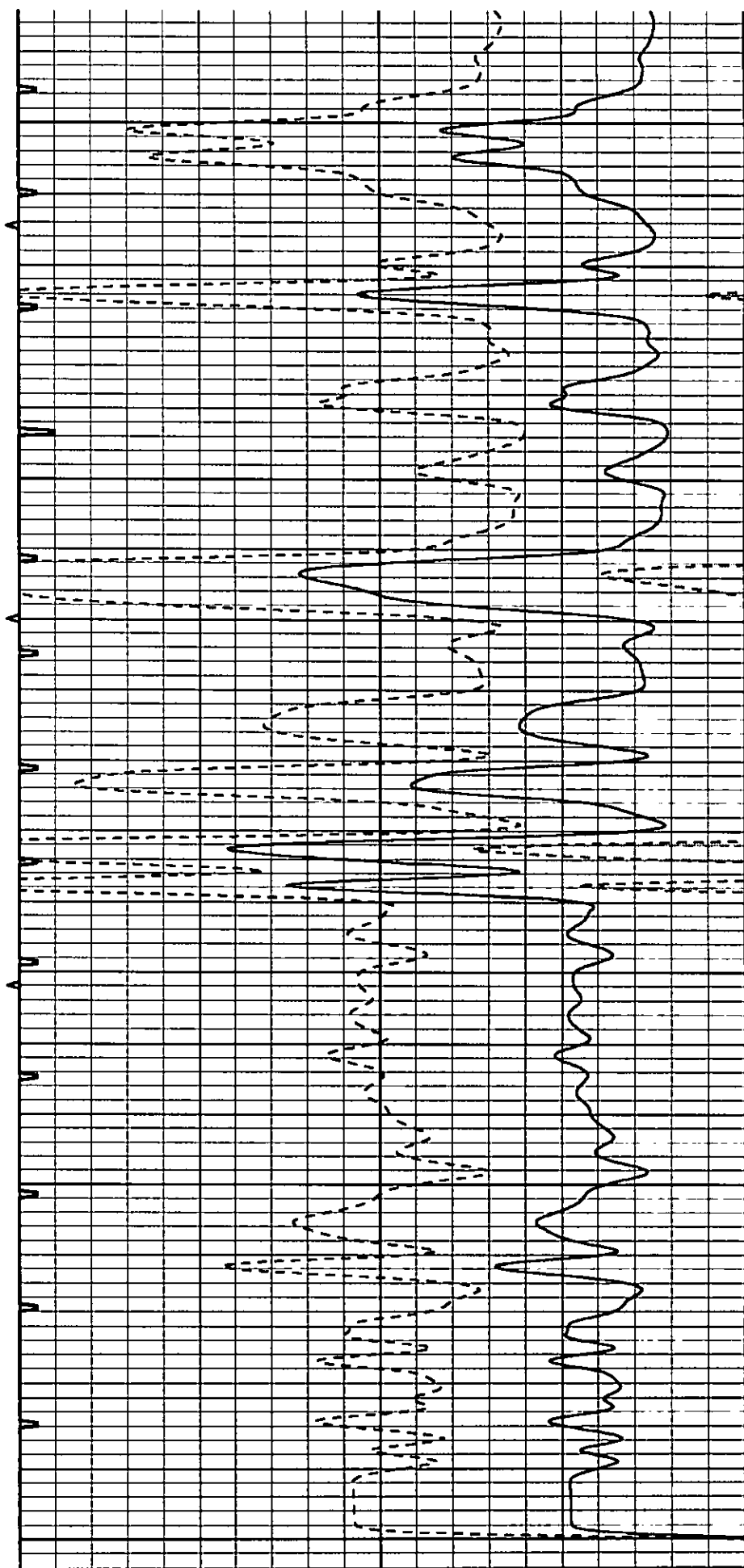
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3300

3350

3400

3450



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 12-14-11 PAGE NO.

CUSTOMER Cactus Knives LLC WELL NO. 23-23 LEASE Hoffman JOB TYPE Constant Logging TICKET NO. 20719

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0045					155*	5 1/2"	TD - 2450'
	0240							On location with flood equip - Rig change over to run 5 1/2 15.5" set casing to 3442 1/2'
								Start casing - Insert float shoe w/ back fill
								L.D. Ball 1 1/2" dia - 55-21 @ 3422 1/2'
								Conn 4-6-8-10-12 Coul Bristle #3
								JTs 13 + 26 out - (81 JTs)
								Disc full up ball - 6 JTs out
	0940							Fin run casing - Top bottom
	1245							PIR Start run of Rehab casing
	0345							Fin PIR
			6 1/4					RH-30 SKS WH-20 SKS
	0600	5	12				200	fluid flush
		6	20				250	KCL flush
		5					200	Start 135 SKS 10/100 PR 10% salt
		4 1/2					250	3/4% CFR-1 + 1/4 SKS floccs
	1415							Var Fin coat - Wash out Pump Line
	0625	9					350	Disc L.D. Plug - Start Displ 8 1/2 BBL
		7	<15				300	slow rate
		7	67				170	Caught nurse
		5	50				570	slow rate
	1635						600	Plug Drawn - Hold - Release + 16.6d
	0645							Job Complete
								Wash up + Reel up TUB
	0730							Get on road @ location

*[Signature]*  
Don, Brian & Joe

# QUALITY OILWELL CEMENTING, INC.

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			Hole Size	12 1/4"			T.D.	820'					
Csg.	8 5/8"			Depth	822'			Charge To	Carius Kansas LLC.					
Tbg. Size				Depth				Street						
Tool				Depth				City	State					
Cement Left In Csg.	15'			Shoe Joint	15'			The above was done to satisfaction and supervision of owner agent or contractor.						
Meas Line				Displace	51 BLS			Cement Amount Ordered	325 sx Common 3 1/2 LL					
<b>EQUIPMENT</b>														
Pumptrk	1	No.	Cementer		CISCO		2 1/2 Gal							
			Helper				Common 325							
Bulktrk	13	No.	Driver		CORY		Poz. Mix							
			Driver				Gel. 6							
Bulktrk	14	No.	Driver		RICK		Calcium 12							
			Driver				Hulls							
<b>JOB SERVICES &amp; REMARKS</b>														
Remarks:	Cement did Circulate													
Rat Hole	Salt													
Mouse Hole	Flowseal													
Centralizers	Kol-Seal													
Baskets	Mud CLR 48													
D/V or Port Collar	CFL-117 or CD110 CAF 38													
	Sand													
	Handling 343													
	Mileage													
<b>FLOAT EQUIPMENT</b>														
	Guide Shoe													
	Centralizer													
	Baskets													
	AFU Inserts													
	Float Shoe													
	Latch Down													
	1 - Rubber plug													
	Pumptrk Charge Long Surface													
	Mileage 17													
											Tax			
											Discount			
											Total Charge			
X Signature														



**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**

Job Ticket: 46213      DST#: 1

ATTN: Jeff Lawler

Test Start: 2011.12.10 @ 07:59:43

#### GENERAL INFORMATION:

Formation: **KC "A"**

Deviated: **No** Whipstock:                      ft (KB)

Time Tool Opened: 10:41:13

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Brett Dickinson**

Time Test Ended: 12:20:13

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@RunDepth:                      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

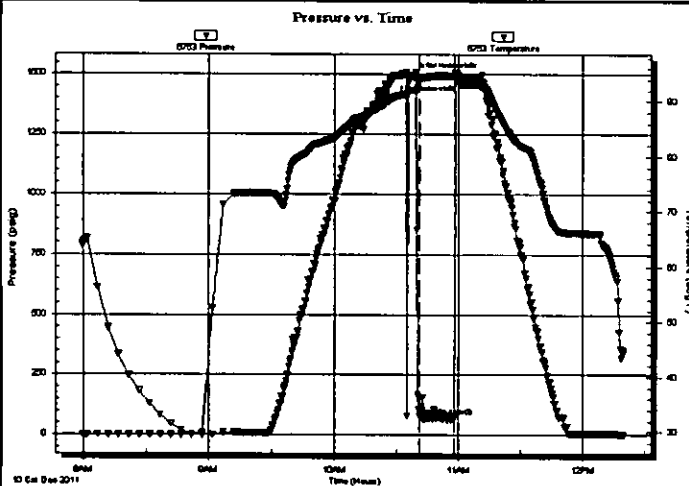
Time On Btm:

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 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbbl
110.00	Mud	1.543

Total Length: 110.00 ft      Total Volume: 1.543 bbl

Num Fluid Samples: 0

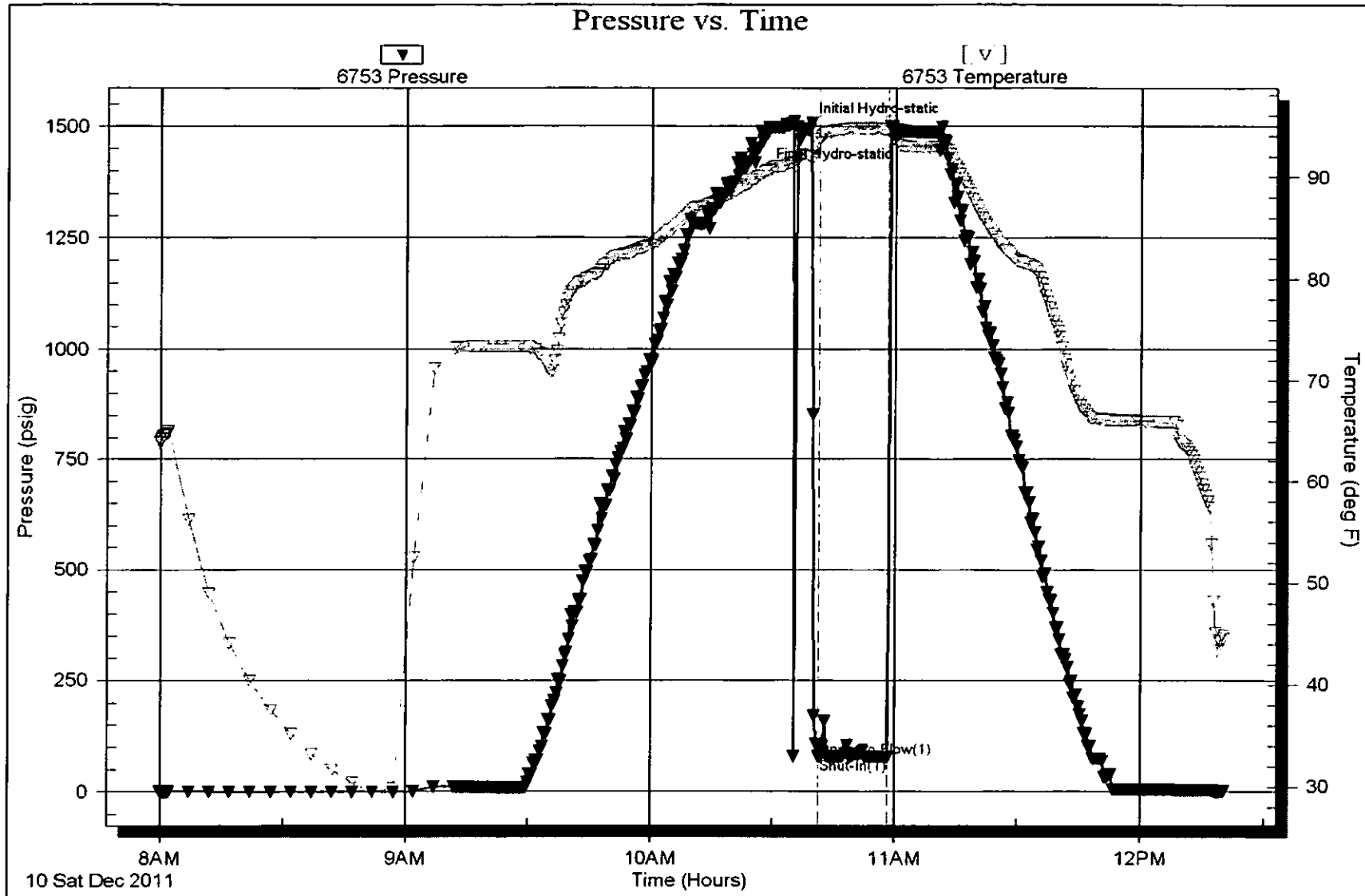
Num Gas Bombs: 0

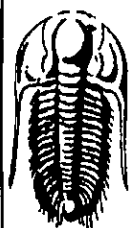
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**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

Job Ticket: 46214      DST#: 2

ATTN: Jeff Lawler

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)**

Total Depth: **3144.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition:

Reference Elevations: **1865.00 ft (KB)**

**1856.00 ft (CF)**

KB to GR/CF: **9.00 ft**

Serial #: **6753**

Inside

Press@RunDepth: **27.48 psig @ 3110.00 ft (KB)**

Start Date: **2011.12.10**

End Date:

**2011.12.10**

Capacity: **8000.00 psig**

Last Calib.: **2011.12.10**

Start Time: **16:10:20**

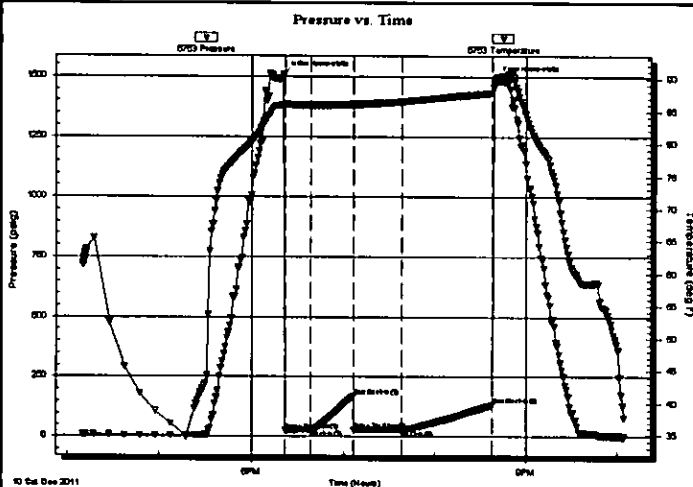
End Time:

**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

\* 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: 46214      DST#: 2

ATTN: Jeff Lawler

Test Start: 2011.12.10 @ 16:10:15

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 7.98 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3000.00 ppm  
Filter Cake: inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

### 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

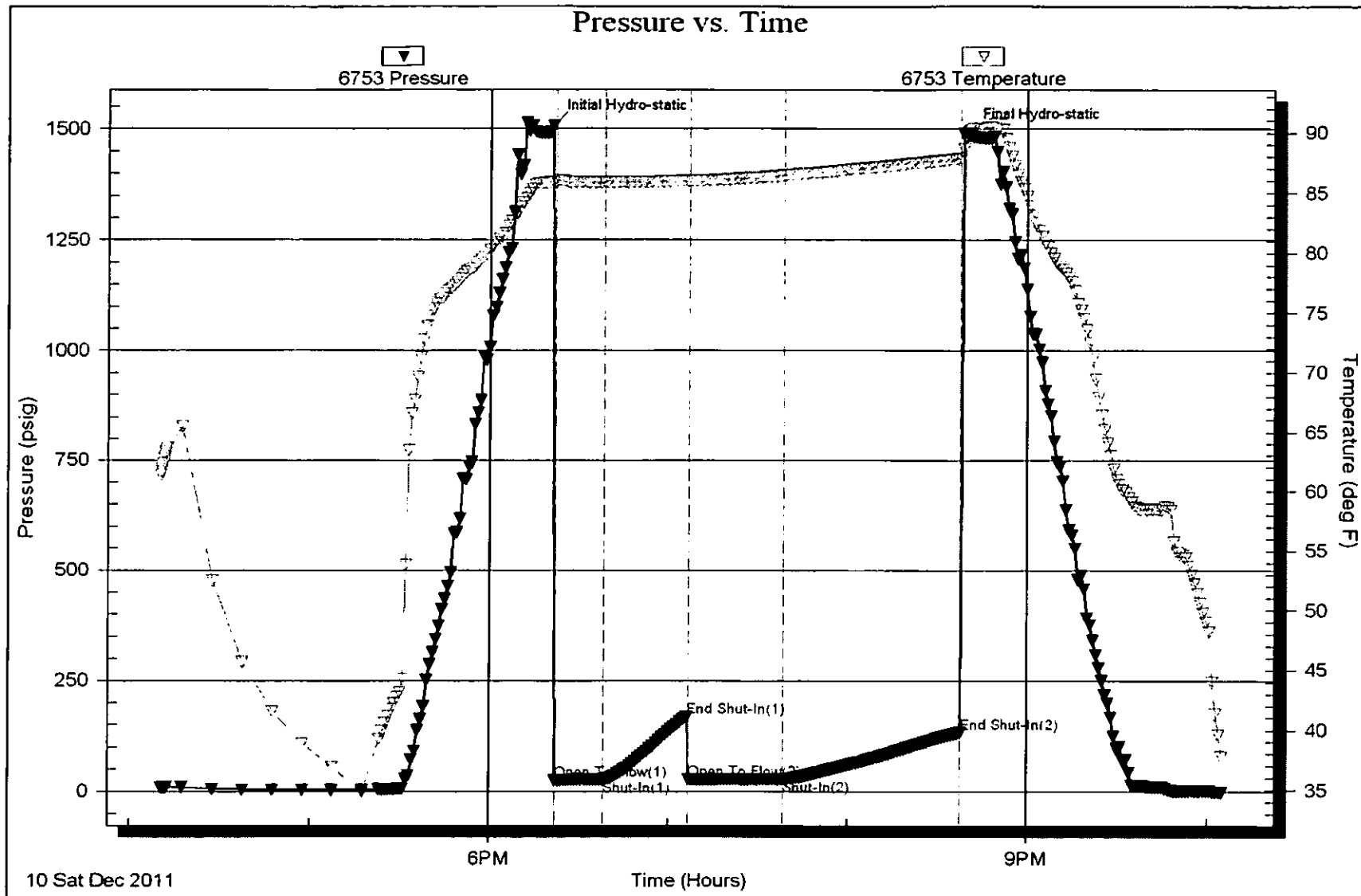
Num Gas Bombs: 0

Serial #:

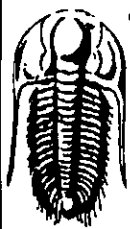
Laboratory Name:

Laboratory Location:

Recovery Comments:







**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

Job Ticket: 46331      DST#: 3

ATTN: Jeff Lawler

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@RunDepth: 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

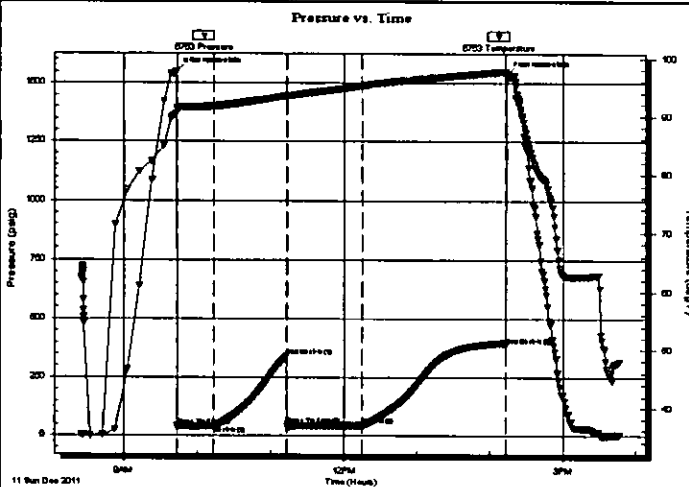
End Time:

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 Mn.  
60 - FF- B.O.B. in 31 Mn.  
120 - FS- No blow back



### 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 in<sup>3</sup>

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

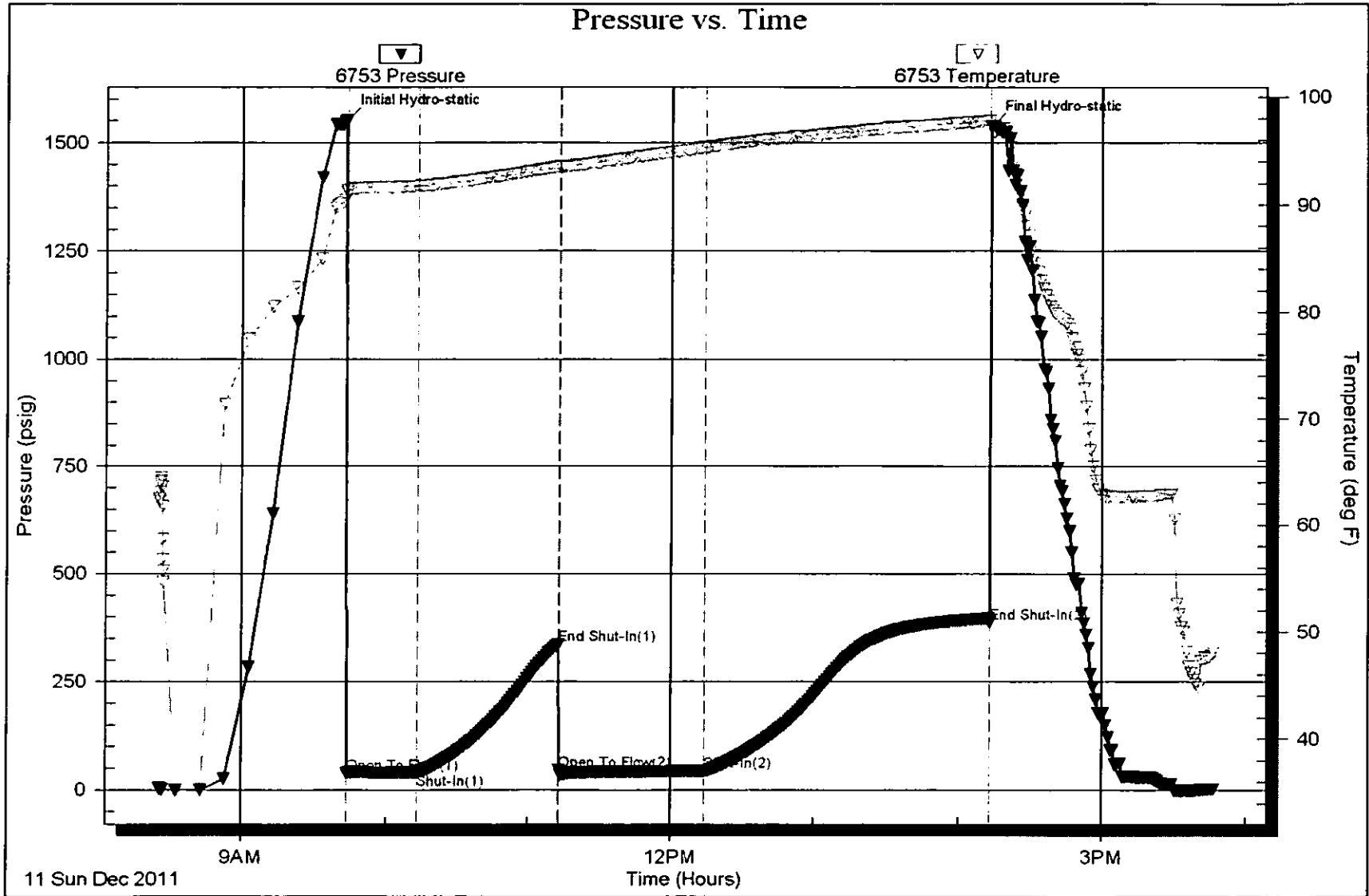
Num Gas Bombs: 0

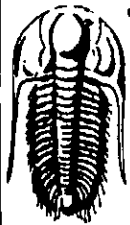
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**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

Job Ticket: 46332      DST#: 4

ATTN: Jeff Lawler

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@RunDepth: 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

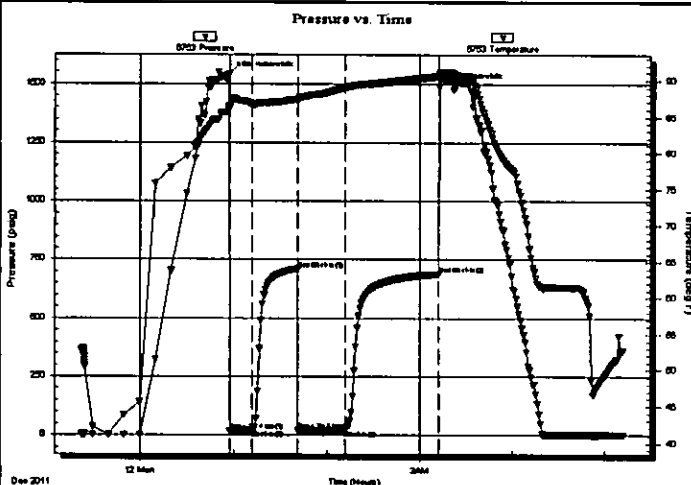
End Time:

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

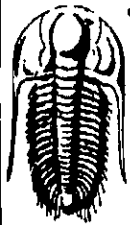
### Recovery

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:

bbl

Water Loss: 7.97 in<sup>3</sup>

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
10.00	VSOCM, 5%O, 95%M	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

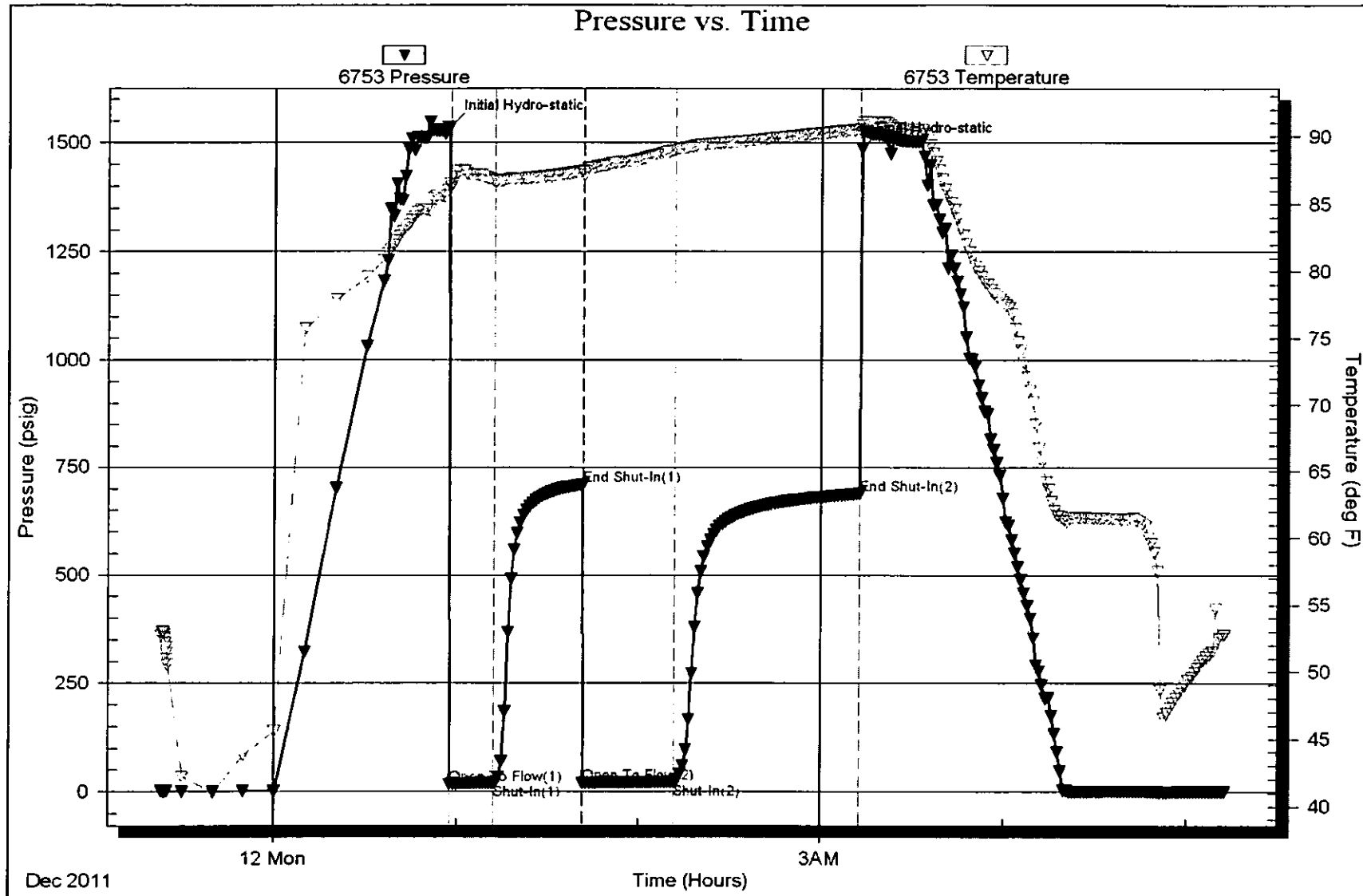
Num Gas Bombs: 0

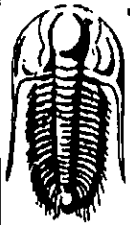
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**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

Job Ticket: 46333      DST#: 5

ATTN: Jeff Lawler

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)

Total Depth: 3369.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 1865.00 ft (KB)

1856.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 6753

Inside

Press@RunDepth: 324.77 psig @ 3366.00 ft (KB)

Start Date: 2011.12.12

End Date:

2011.12.13

Capacity: 8000.00 psig

Last Calib.: 2011.12.13

Start Time: 21:49:05

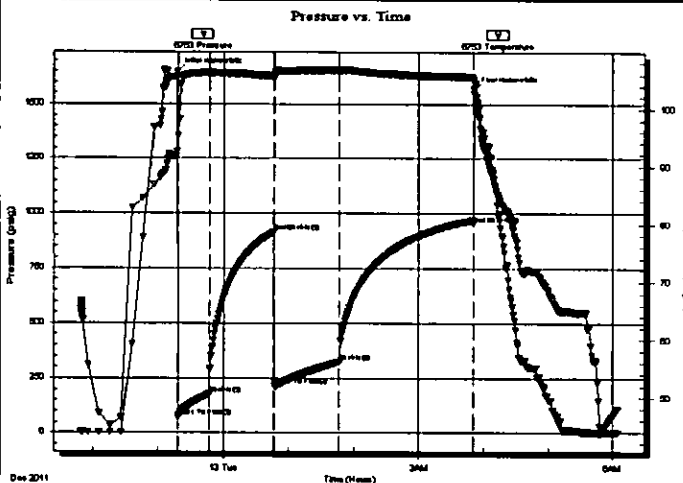
End Time:

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 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

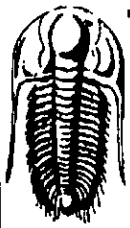
### Recovery

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

\* 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: 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:

bbf

Water Loss: 8.79 in<sup>3</sup>

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 bbf
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 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

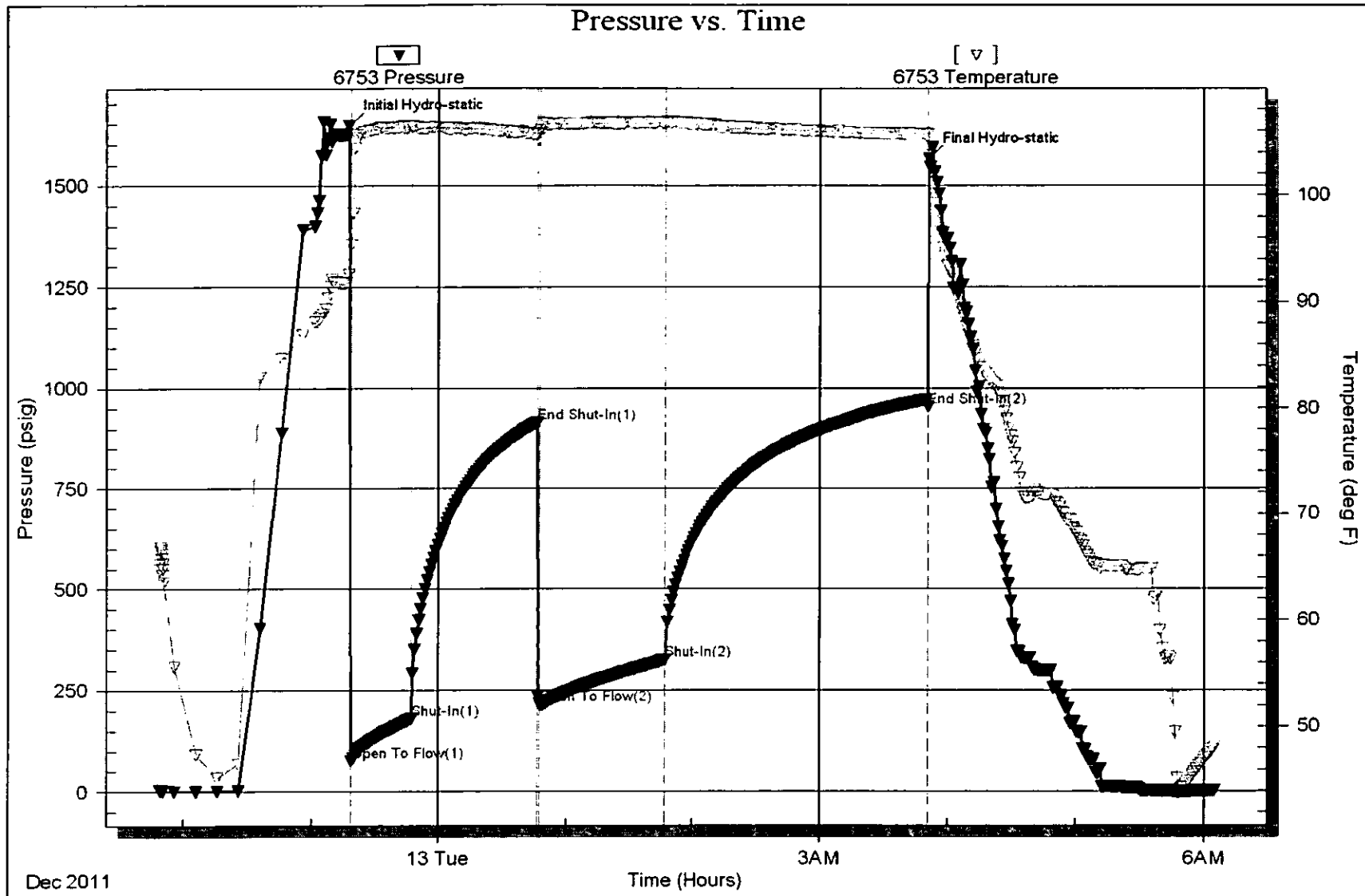
Serial #:

Laboratory Name:

Laboratory Location:

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





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  
<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: 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